APPENDIX B

124202

ADVANCED DRILLING, INC.

CORNELL-DUBILIER SUPERFUND SITE
SOUTH PLAINFIELD, NEW JERSEY

Prepared for:

MALCOLM PIRNIE, INC.
17-17 ROUTE 208 NORTH
FAIR LAWN, NEW JERSEY 07401

3 Colt Road • Pittstown, New Jersey 08867 • 908/730-7060 • FAX 908/730-7443

R2-0016482

ADVANCED DRILLING, INC.

CORNELL-DUBILIER SUPERFUND SITE
SOUTH PLAINFIELD, NEW JERSEY

This report represents the records of the work conducted at the referenced site on October 7, 2009. Work was authorized by and completed under the direction of Malcolm Pirnie, Inc.

Twelve (12) wells were installed at locations selected in the field by the client. Rotary drilling methods were employed to complete the work. Core drill samples were taken in the field and retained by the client.

Advanced Drilling, Inc. obtained permits for the owner. Completed forms were sent to NJDEP and Morris County.

Classifications depicted on the enclosed boring logs are that of the Driller and not verified by a licensed Soil Engineer or Geologist.

We trust that this information meets with your approval. Thank you for the trust you have placed in Advanced Drilling, Inc.

Respectfully submitted,

ADVANCED DRILLING, INC.

Vicky L. Alberalla

Vicky L. Alberalla

March 11, 2010

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-13

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	26 : 34 : 591	P200900523

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
3-24-09	3-27-09	Richard Empson	J 1312	10"/6"	250 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
1	257	Rotary	From Cuttings	13 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube	of 1

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				4.0	5			GRAVEL PARKING AREA	
				8.0	10			Dry brown Silty SAND & GRAVEL	
					15			Dry red/brown WEATHERED SHALE	
					20				
					25				
					30				
					35				
					40				
					45				
					50				
					55				
					60				
					65				
					70				
					75			Red/brown SHALE	
					80				
					85				
					90				
					95				
					100				
					105				
					110				
					115				
					120				
					125				
					130				
					135				
					140				
					145				
					150				
					155				
					160				
					165				
					170				
					175			Red/brown SHALE	
					180				
					185				
					190				
					195				
					200				
					205				
					210				
					215				
					220				
					225				
					230				
					235				
					240				
					245				
				250.0	250			Boring Complete @ 250 Feet	
					255				

R2-0016484

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-13

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	26 : 34 : 591	P200900523

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
3-24-09	3-27-09	Richard Empson	J 1312	10"/6"	250 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
1	257	Rotary	From Cuttings	13 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-13*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *3-27-09*

Drilling Method *Rotary*

Driller *Richard Empson*

Drilling Fluid *water*

Static water level after drilling *13 ft.*

Well developed for *4* hours at *10* gpm

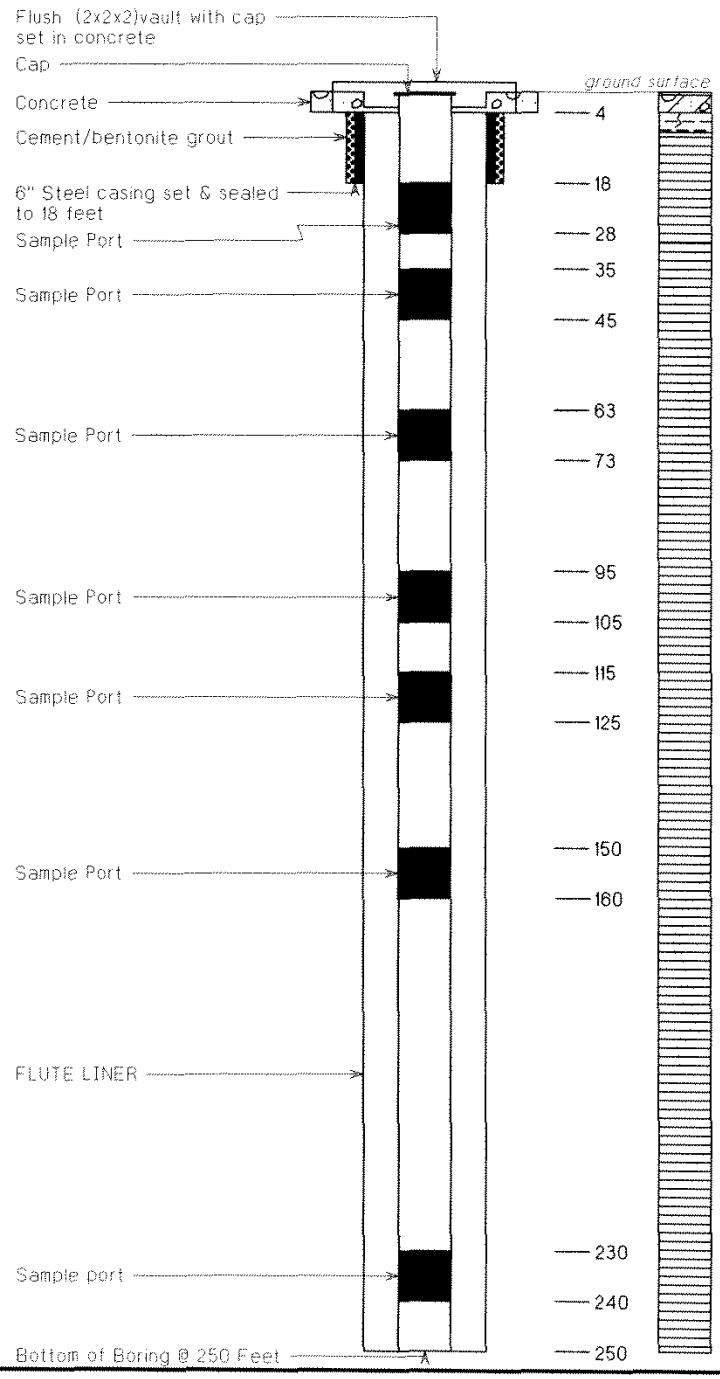
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water red/silty to slightly cloudy*

Prepared By *Richard Empson*

Date Prepared *3/11/10*



R2-0016485

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-14

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200900800

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
2-26-09	10-7-09	Craig Conner	MW195150	10"/6"/2.3"	233 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
14	282	Rotary	From Cuttings/Core	16.5 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube	of 4

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				.3				12" GRAVEL	
								Dry brown SAND & GRAVEL FO::	
					5			Wet black stained SAND & GRAVEL	
				8.5					
					10			Moist red/brown CLAY	
				13.0					
					15				
					20				
					25				
					30				
					35			Dry to wet red/brown SHALE/SILTSTONE	
					40				
					45				
					50				
					55				

ADVANCED DRILLING, INC.	PROJECT Cornell Dubilier Superfund Site	CLIENT MalcolmPirnie, Inc.	PROJECT NO. ADV-2298	HOLE NUMBER MW-14

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
					60				
					65				
					70				
					75			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #1; 66% Recovery; RQD=6
					80				Core Drilled Run #2; 100% Recovery; RQD=34
					85				Core Drilled Run #3, 100% Recovery; RQD=24%
					90				Core Drilled Run #4; 100% Recovery; RQD=76%
					95				Core Drilled Run #5; 100% Recovery; RQD=91%
					100			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #6; 100% Recovery; RQD=100%
					105				Core Drilled Run #7 100% Recovery; RQD=100%
					110				Core Drilled Run #8; 100% Recovery; RQD=93%
					115				Core Drilled Run #9; 100% Recovery; RQD=97%
					120				Run #10;

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-14

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
									100% Recovery; RQD=82%
					125				Core Drilled Run #11; 100% Recovery; RQD=83%
					130			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #12; 100% Recovery; RQD=85%
					135				Core Drilled Run #13; 100% Recovery; RQD=93%
					140				Core Drilled Run #14; 100% Recovery; RQD=95%
					145				Core Drilled Run #15; 100% Recovery; RQD=91%
					150				Core Drilled Run #16; 100% Recovery; RQD=90%
					155				Run #17; 100% Recovery; RQD=95%
					160				Core Drilled Run #18; 100% Recovery; RQD=95%
					165			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #19; 98% Recovery; RQD=95%
					170				Core Drilled Run #20; 100% Recovery; RQD=95%
					175				Core Drilled Run #21; 98% Recovery; RQD=50%
					180				Core Drilled Run #22; 100% Recovery; RQD=95
									Run #23

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-14

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
					185				Run #23 98% Recovery; RQD=90%
									Core Drilled Run #24; 100% Recovery; RQD=70%
					190				
									Core Drilled Run #25; 100% Recovery; RQD=75%
					195				
									Core Drilled Run #26; 100% Recovery; RQD=62%
					200				
									Core Drilled Run #27; 100% Recovery; RQD=80%
					205			Dry to wet red/brown SHALE/SILTSTONE	
									Core Drilled Run #28; 100% Recovery; RQD=87%
					210				
									Core Drilled Run #29; 100% Recovery; RQD=78%
					215				
									Core Drilled Run #30; 100% Recovery; RQD=100%
					220				
									Core Drilled Run #31; 100% Recovery; RQD=50%
					225				
									Core Drilled Run #32; 96% Recovery; RQD=70%
					230				
				233.0				Boring Complete @ 233 Feet	
					235				
					240				
					245				

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-14

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200900800

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
2-26-09	10-7-09	Craig Conner	MW195150	10"/6"/2.3"	233 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
14	282	Rotary	From Cuttings/Core	16.5 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-14*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *10-7-09*

Drilling Method *Rotary*

Driller *Craig Conner*

Drilling Fluid *water*

Static water level after drilling *16.5 ft.*

Well developed for *4* hours at *10* gpm

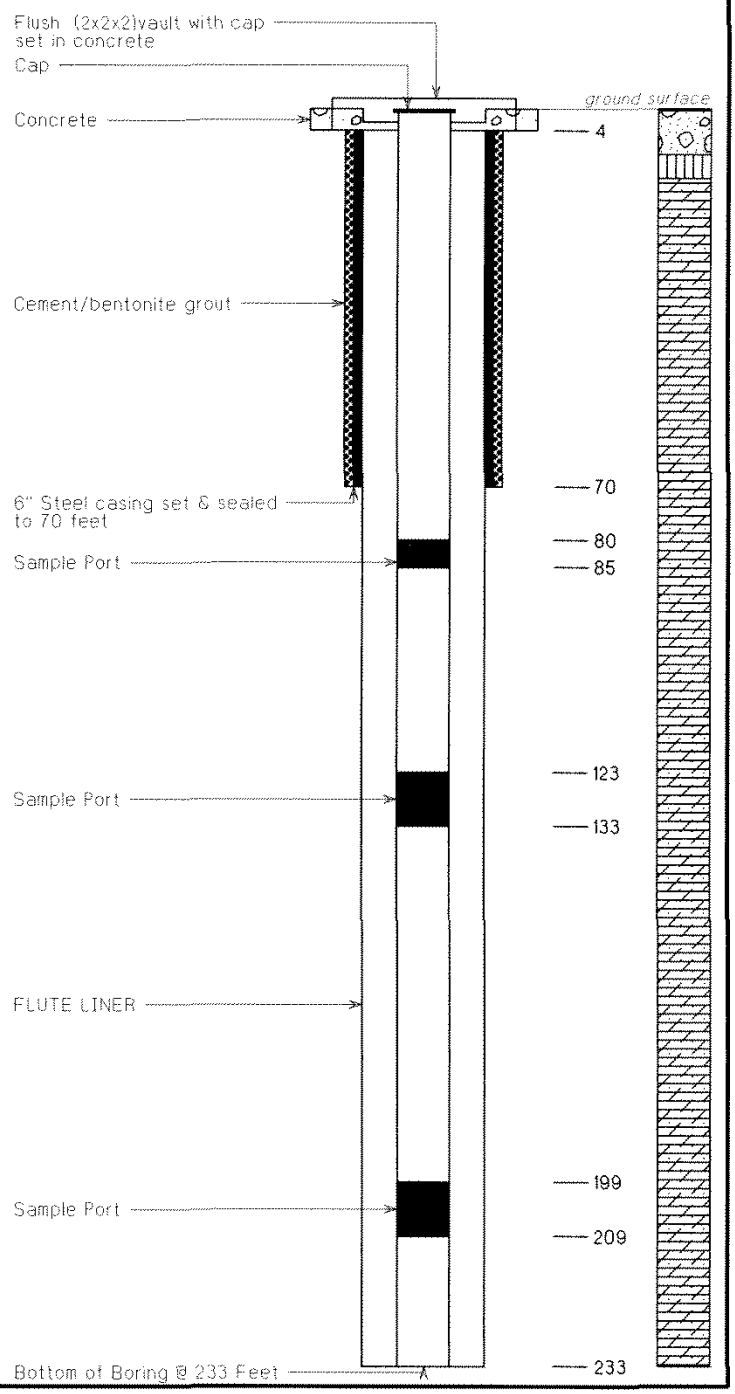
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water red/brown/silty to clear*

Prepared By *Craig Conner*

Date Prepared *3/11/10*



ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-14S

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200906623

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
5-27-09	5-28-09	Richard Empson	J 1312	10"/6"	70 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
14	282	Rotary	From Cuttings	13.3 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube	1 of 1

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				.5				GRAVEL SURFACE	
								Dry red/brown Silty SAND & GRAVEL FILL	
					5			Wet grey/black Silty SAND & GRAVEL FILL	
				8.0					
					10			Moist red/brown Shaley SILT/CLAY, rock fragments	
				13.0					▼
					15				
					20				
					25				
					30				
					35				
								Red/brown SHALE/SILTSTONE	
					40				
					45				
					50				
					55				
					60				
					65				
				70.0	70			Boring Complete @ 70 Feet	

R2-0016491

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-14S

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200906623

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
5-27-09	5-28-09	Richard Empson	J 1312	10"/6"	70 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
14	282	Rotary	From Cuttings	13.3 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-14S*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *5-28-09*

Drilling Method *Rotary*

Driller *Richard Empson*

Drilling Fluid *water*

Static water level after drilling *13.3 ft.*

Well developed for *5.5* hours at *10* gpm

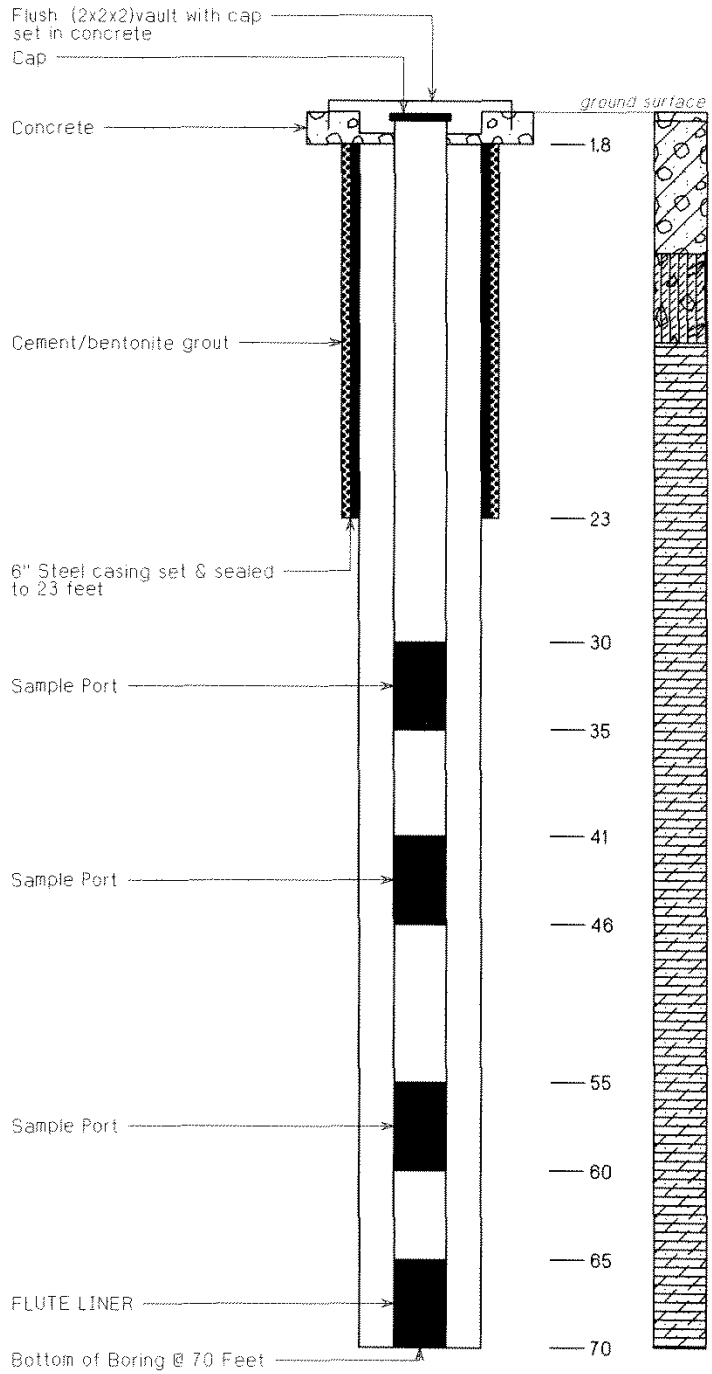
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water brown/silty to clear*

Prepared By *Richard Empson*

Date Prepared *3/11/10*



R2-0016492

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-15S

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200904372

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
3-30-09	4-1-09	Richard Empson	J 1312	10"/6"	100 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
14	282	Rotary	From Cuttings	15 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube	of 1

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				4.0	5			Dry to moist brown SILT, little sand, gravel & clay	
				8.0				Dry red WEATHERED SHALE	
					10				
					15				
					20				
					25				
					30				
					35				
					40				
					45				
					50				
					55			Red/brown SHALE	
					60				
					65				
					70				
					75				
					80				
					85				
					90				
					95				
				100.0	100			Boring Complete @ 100 Feet	

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-15S

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200904372

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
3-30-09	4-1-09	Richard Empson	J 1312	10"/6"	100 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
14	282	Rotary	From Cuttings	15 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-15S*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *4-1-09*

Drilling Method *Rotary*

Driller *Richard Empson*

Drilling Fluid *water*

Static water level after drilling *15 ft.*

Well developed for *4* hours at *10* gpm

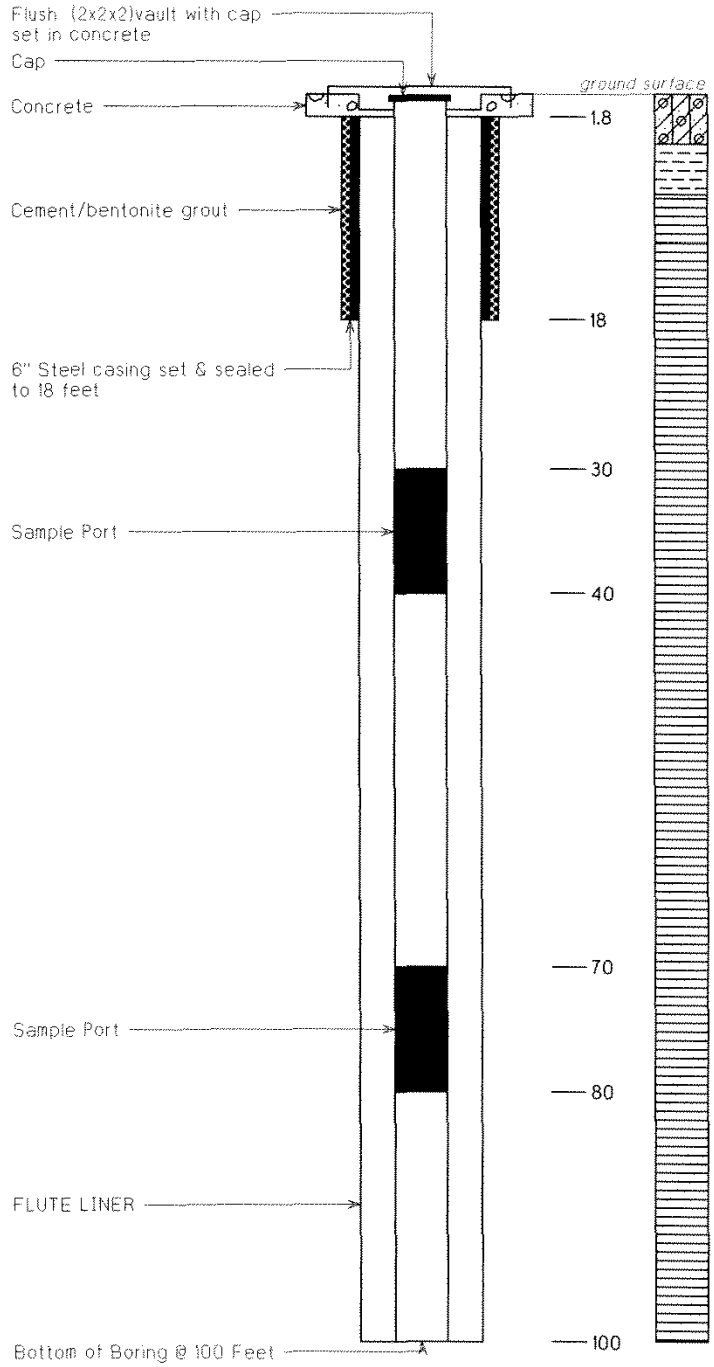
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water red/brown/silty to clear*

Prepared By *Richard Empson*

Date Prepared *3/11/10*



R2-0016494

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-15D

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200900801

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
4-3-09	4-9-09	Richard Empson	J 1312	10"/6"	233 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
14	282	Rotary	From Cuttings	16 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube	of 1

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				4.0	5			TOPSOIL	
				7.0	10			Dry brown Silty SAND, little clay	
					15			Dry red WEATHERED SHALE	
					20				
					25				
					30				
					35				
					40				
					45				
					50				
					55				
					60				
					65				
					70				
					75			Dry to wet red/brown SHALE	
					80				
					85				
					90				
					95				
					100				
					105				
					110				
					115				
					120				
					125				
					130				
					135				
					140				
					145				
					150				
					155				
					160				
					165				
					170				
					175			Dry to wet Red/brown SHALE	
					180				
					185				
					190				
					195				
					200				
					205				
					210				
					215				
					220				
					225				
					230				
				233.0	235			Boring Complete @ 233 Feet	

R2-0016495

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-15D

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200900801

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
4-3-09	4-9-09	Richard Empson	J 1312	10"/6"	233 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
14	282	Rotary	From Cuttings	16 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-15D*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *4-9-09*

Drilling Method *Rotary*

Driller *Richard Empson*

Drilling Fluid *water*

Static water level after drilling *16 ft.*

Well developed for *4* hours at *10* gpm

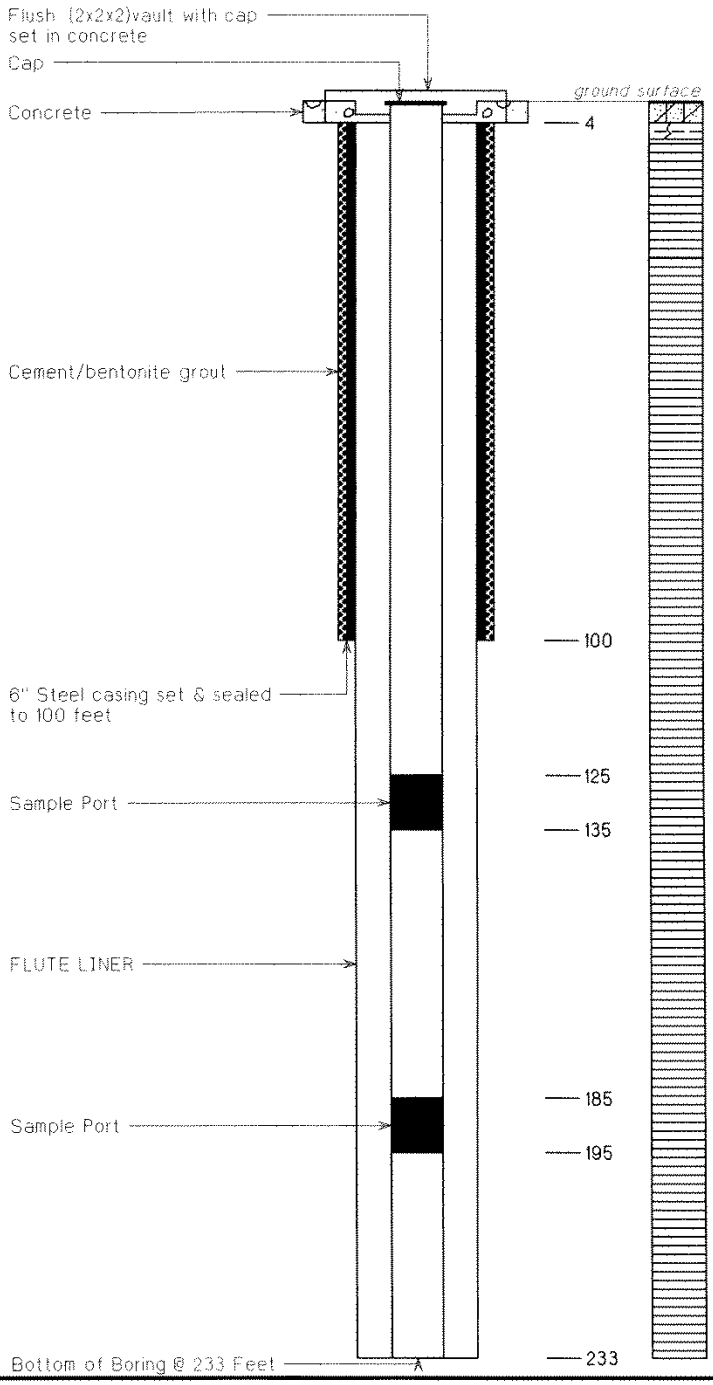
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water red/brown/silty to slightly cloudy*

Prepared By *Richard Empson*

Date Prepared *3/11/10*



ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-16

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200900534

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
1-19-09	10-7-09	Craig Conner	MW195150	10"/6"/2.3"	254 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
14A	282	Rotary	From Cuttings/Core	16 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tubes	of 4

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				.3				4" ASPHALT	
								Dry red/brown Silty SAND & GRAVEL	
					5				
				7.0					
								Dry red WEATHERED SHALE	
				10.0	10				
					15				
					20				Core Drilled Run #1; 66% Recovery; RQD=0
					25				Core Drilled Run #2; 40% Recovery; RQD=0
					30				
					35			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #3, 4 & 5; NO RECOVERY
					40				Core Drilled Run #6; 95% Recovery; RQD=75%
					45				Core Drilled Run #7; 90% Recovery; RQD=70%
					50				Core Drilled Run #8; 96% Recovery; RQD=63%
					55				Core Drilled Run #9; 100% Recovery; RQD=93%

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-16

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
					60				Core Drilled Run #10; 98% Recovery; RQD=76%
					65				Core Drilled Run #11; 100% Recovery; RQD=64%
					70				Core Drilled Run #12; 91% Recovery; RQD=46%
					75			Dry to wet Red/brown SHALE/SILTSTONE	Core Drilled Run #13; 100% Recovery; RQD=30%
					80				Core Drilled Run #14; 98% Recovery; RQD=76%
					85				Core Drilled Run #15; 100% Recovery; RQD=72%
					90				Core Drilled Run #16; 100% Recovery; RQD=73%
					95				Core Drilled Run #17; 96% Recovery; RQD=50%
					100				Core Drilled Run #18; 100% Recovery; RQD=72%
					105			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #19; 100% Recovery; RQD=77%
					110				Core Drilled Run #20; 100% Recovery; RQD=63%
					115				Core Drilled Run #21; 100% Recovery; RQD=75%
					120				Core Drilled Run #22; 100% Recovery; RQD=92%
					125				Drilled Run #23

ADVANCED DRILLING, INC.	PROJECT Cornell Dubilier Superfund Site	CLIENT MalcolmPirnie, Inc.	PROJECT NO. ADV-2298	HOLE NUMBER MW-16

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
									Run 23; 100% Recovery; RQD=75
					130				Core Drilled Run #24; 80% Recovery; RQD=100%
					135				Core Drilled Run #25; 98% Recovery; RQD=100%
					140			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #26; 92% Recovery; RQD=100%
					145				Core Drilled Run #27; 98% Recovery; RQD=53%
					150				Core Drilled Run #28; 100% Recovery; RQD=87%
					155				Core Drilled Run #29; 98% Recovery; RQD=60%
					160				Core Drilled Run #30; 100% Recovery; RQD=93%
					165				Core Drilled Run #31; 98% Recovery; RQD=63%
					170				Core Drilled Run #32; 100% Recovery; RQD=93%
					175			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #33; 100% Recovery; RQD=93%
					180				Core Drilled Run #34; 100% Recovery; RQD=93%
					185				Core Drilled Run #35; 100% Recovery; RQD=93%
					190				Core Drilled Run #36; 100% Recovery; RQD=98%

ADVANCED DRILLING, INC.	PROJECT Cornell Dubilier Superfund Site	CLIENT MalcolmPirnie, Inc.	PROJECT NO. ADV-2298	HOLE NUMBER MW-16

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
					195				Core Drilled Run #37; 98% Recovery; RQD=100%
					200				Core Drilled Run #38; 80% Recovery; RQD=73%
					205			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #39; 100% Recovery; RQD=75%
					210				Core Drilled Run #40; 100% Recovery; RQD=100%
					215				Core Drilled Run #41; 100% Recovery; RQD=96%
					220				Core Drilled Run #42; 100% Recovery; RQD=100%
					225				Core Drilled Run #43; 95% Recovery; RQD=93%
					230				Core Drilled Run #44; 100% Recovery; RQD=100%
					235				Core Drilled Run #45; 98% Recovery; RQD=90%
					240			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #46; 95% Recovery; RQD=29%
					245				Core Drilled Run #47; 84% Recovery; RQD=50%
					250				Core Drilled Run #48; 29% recovery; RQD=34%
				254.0	255			Boring Complete @ 254 Feet	

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-16

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200900534

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
1-19-09	10-7-09	Craig Conner	MW195150	10"/6"/2.3"	254 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
14A	282	Rotary	From Cuttings/Core	16 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-16*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *2-9-09*

Drilling Method *Rotary*

Driller *Craig Conner*

Drilling Fluid *water*

Static water level after drilling *16 ft.*

Well developed for *1.5* hours at *10* gpm

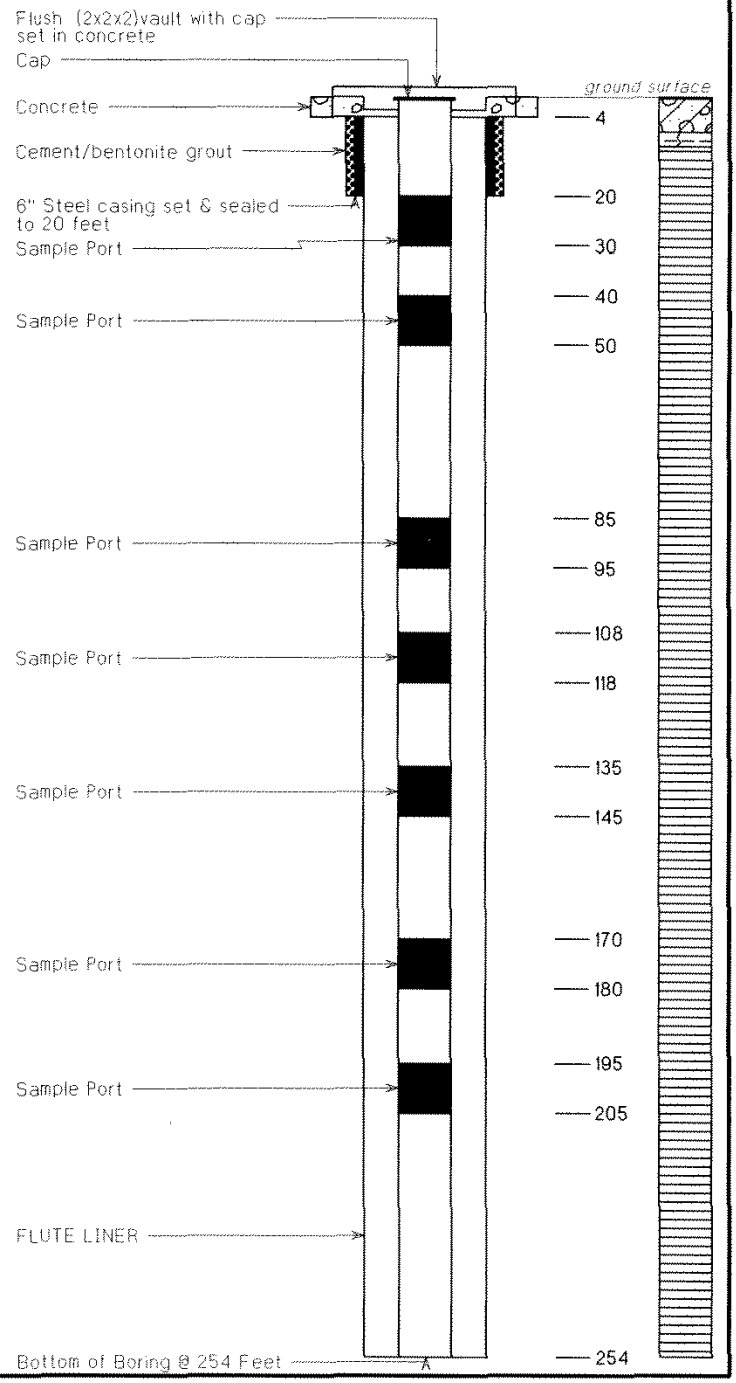
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water red/brown/silty to slightly cloudy*

Prepared By *Craig Conner*

Date Prepared *3/11/10*



ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-17

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200900525

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
3-9-09	10-7-09	Richard Empson	J 1312	10"/6"	250 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
10	329	Rotary	From Cuttings	23.2 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tubes	1 of 1

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				0.3					
				4.0	5			4" ASPHALT	
				9.0	10			Dry brown/green/grey Silty SAND & GRAVEL	
					15			Moist to wet green/gray/brown SILT SAND &CLAY	
					20				
					25				
					30				
					35				
					40				
					45				
					50				
					55				
					60				
					65				
					70				
					75			Dry to wet red/brown SHALE/SILTSTONE	
					80				
					85				
					90				
					95				
					100				
					105				
					110				
					115				
					120				
					125				
					130				
					135				
					140				
					145				
					150				
					155				
					160				
					165				
					170				
					175			Dry to wet red/brown SHALE/SILTSTONE	
					180				
					185				
					190				
					195				
					200				
					205				
					210				
					215				
					220				
					225				
					230				
					235				
					240				
					245				
				250.0	250			Boring Complete @ 250 Feet	
					255				

R2-0016502

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-17

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 583	P200900525

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
3-9-09	10-7-09	Richard Empson	J 1312	10"/6"	250 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
10	329	Rotary	From Cuttings	23.2 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-17*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *10-7-09*

Drilling Method *Rotary*

Driller *Richard Empson*

Drilling Fluid *water*

Static water level after drilling *23.2 ft.*

Well developed for *4* hours at *10* gpm

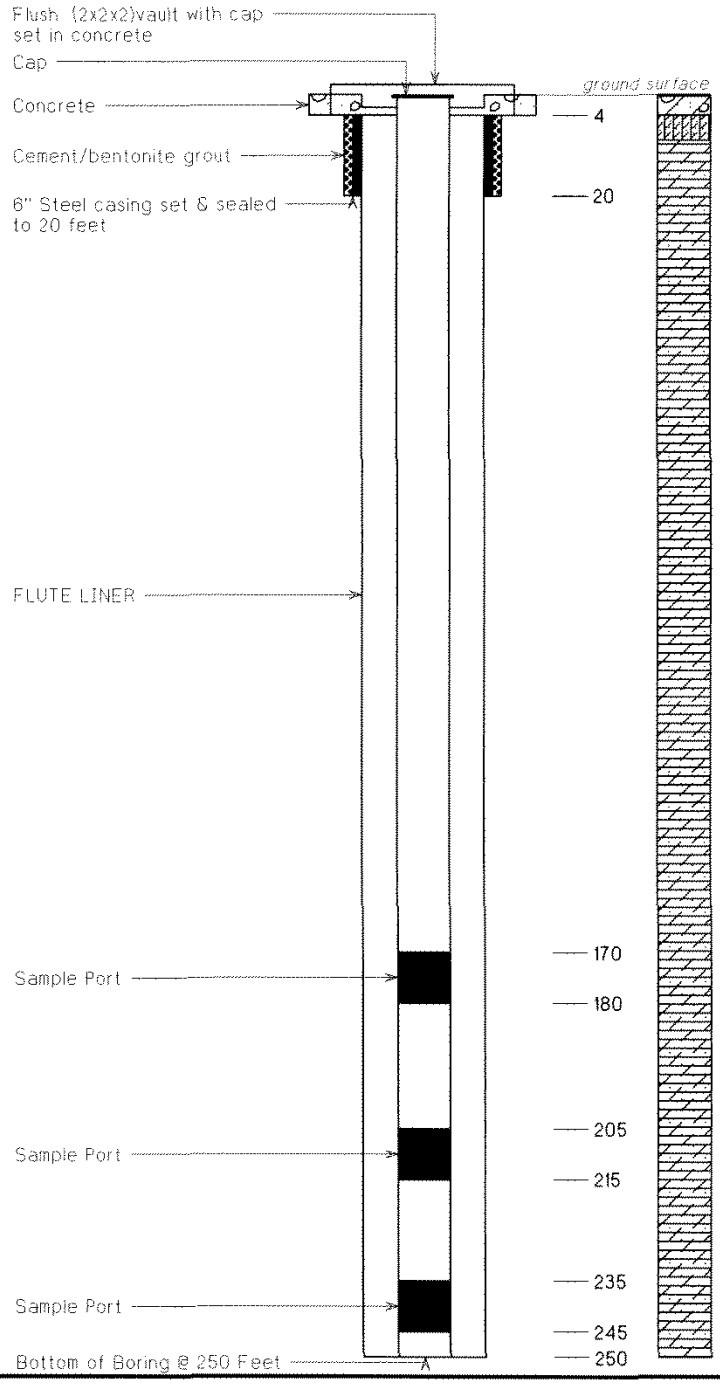
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water red/brown/silty to slightly cloudy*

Prepared By *Richard Empson*

Date Prepared *3/11/10*



R2-0016503

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-18

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 581	P200900522

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
3-17-09	10-7-09	Richard Empson	J 1312	10"/6"	250 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
46.01	315	Rotary	From Cuttings	9.5 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tubes	of 1

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				3.0	5			4" ASPHALT	
				5.0				Dry brown/grey SILT, SAND & GRAVEL	
				10.0	10			Dry olive/gray/brown CLAY, SAND, little gravel	
				12.0	15			Moist red/brown SILT, SAND & CLAY	
					20			WEATHERED SHALE	
					25				
					30				
					35				
					40				
					45				
					50				
					55				
					60				
					65				
					70				
					75			Dry red/brown SHALE	
					80				
					85				
					90				
					95				
					100				
					105				
					110				
					115				
					120				
					125				
					130				
					135				
					140				
					145				
					150				
					155				
					160				
					165				
					170				
					175			Dry red/brown SHALE	
					180				
					185				
					190				
					195				
					200				
					205				
					210				
					215				
					220				
					225				
					230				
					235				
					240				
					245				
				250.0	250			Boring Complete @ 250 Feet	

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-18

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 581	P200900522

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
3-17-09	10-7-09	Richard Empson	J 1312	10"/6"	250 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
46.01	315	Rotary	From Cuttings	9.5 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-18*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *10-7-09*

Drilling Method *Rotary*

Driller *Richard Empson*

Drilling Fluid *water*

Static water level after drilling *9.5 ft.*

Well developed for *5* hours at *10* gpm

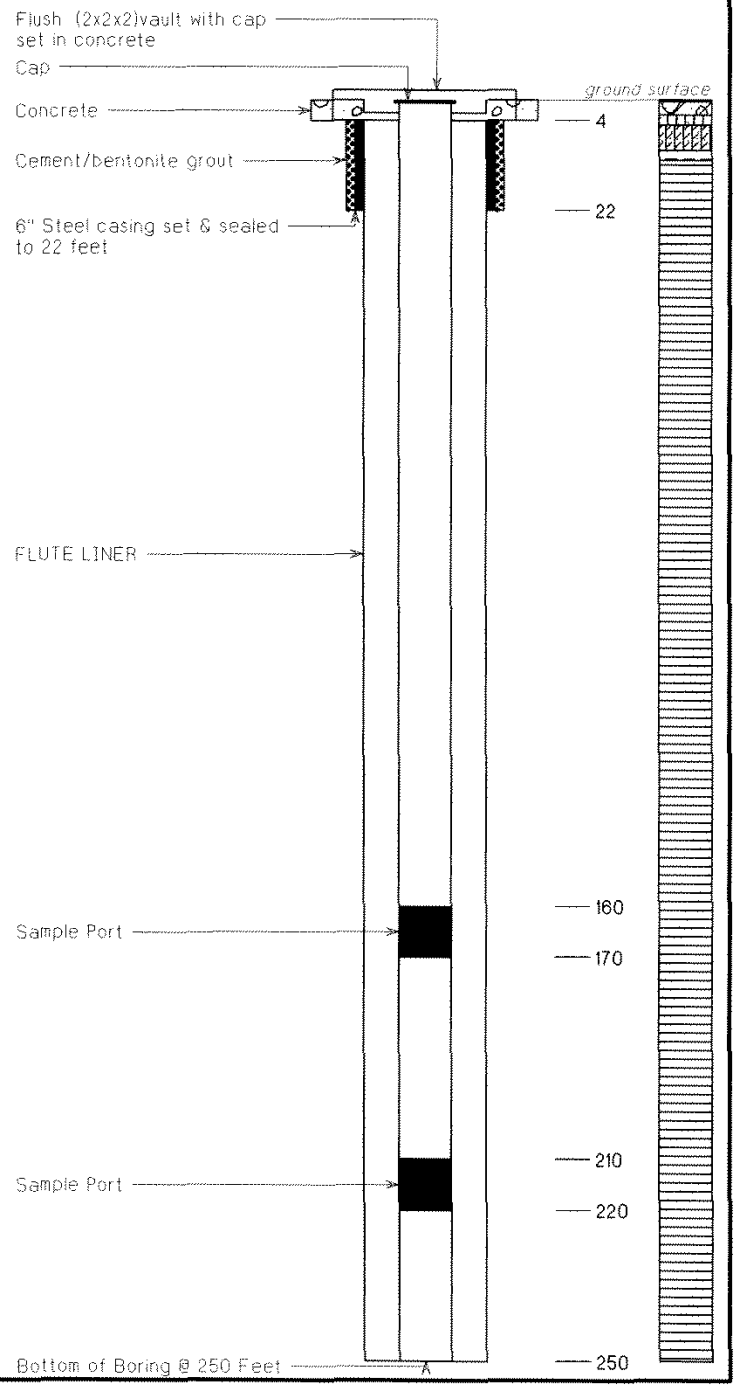
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water red/brown/silty to cloudy*

Prepared By *Richard Empson*

Date Prepared *3/11/10*



R2-0016505

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-19

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 552	P200904823

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
5-12-09	10-7-09	Richard Empson	J 1312	10"/6"	600 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
ROW	ROW	Rotary	From Cuttings	15 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube	of 16

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				.3				4" ASPHALT	
				2.0				Dry grey/brown SAND & GRAVEL	
					5				
				7.0					
					10			Moist to wet gray SILT & CLAY, little sand	
					15				
					20			Wet red/brown SILT, SAND & CLAY	
					25				
				28.0				Wet red/brown SILT, CLAY & WEATHERED ROCK to 47 Feet	
					30				
				33.0				Dry red/brown SHALE/SILTSTONE to 600 Feet	
					35				

R2-0016506

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-19

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 552	P200904823

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
5-12-09	10-7-09	Richard Empson	J 1312	10"/6"	600 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
ROW	ROW	Rotary	From Cuttings	15 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-19*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *10-7-09*

Drilling Method *Rotary*

Driller *Richard Empson*

Drilling Fluid *water*

Static water level after drilling *15 ft.*

Well developed for *5* hours at *10* gpm

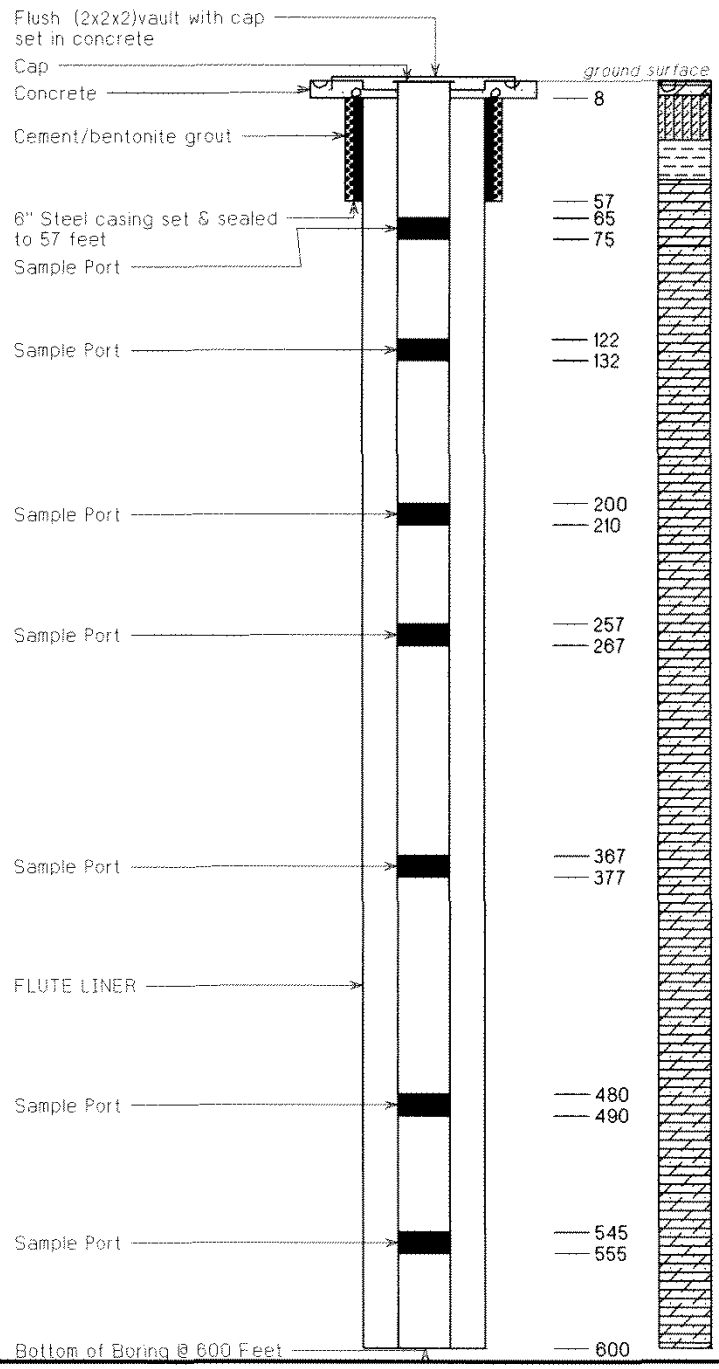
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water red/brown/silty to clear*

Prepared By *Richard Empson*

Date Prepared *3/11/10*



R2-0016507

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-20

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 556	P200900528

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
2-6-09	10-7-09	Craig Conner	MW195150	10"/6"/2.3"	413 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
10	260	Rotary	From Cuttings/Core	8.8 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube	of 7

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
								Dry brown Silty SAND	
				5.0	5				
								Moist brown organic SILT & SAND	
				8.0					
					10			Moist red/brown WEATHERED SILTSTONE	
				15.0	15				
					20				
					25				
					30				Core Drilled Run #1; 84% Recovery; RQD=25
					35			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #2; 100% Recovery; RQD=31
					40				Core Drilled Run #3, 100% Recovery; RQD=43%
					45				Core Drilled Run #4; 100% Recovery; RQD=75%
					50				Core Drilled Run #5; 98% Recovery; RQD=46%
					55				Core Drilled Run #6; 60% Recovery; RQD=0%

ADVANCED DRILLING, INC.	PROJECT Cornell Dubilier Superfund Site	CLIENT MalcolmPirnie, Inc.	PROJECT NO. ADV-2298	HOLE NUMBER MW-20

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
					60				Core Drilled Run #7 100% Recovery; RQD=74%
					65				Core Drilled Run #8; 98% Recovery; RQD=33%
					70				Core Drilled Run #9; 100% Recovery; RQD=50%
					75			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #10; 98% Recovery; RQD=90%
					80				Core Drilled Run #11; 56% Recovery; RQD=16%
					85				Core Drilled Run #12; 100% Recovery; RQD=51%
					90				Core Drilled Run #13; 94% Recovery; RQD=50%
					95				Core Drilled Run #14; 96% Recovery; RQD=25%
					100			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #15; 88% Recovery; RQD=29%
					105				Core Drilled Run #16; 100% Recovery; RQD=71%
					110				Core Drilled Run #17; 100% Recovery; RQD=76%
					115				Core Drilled Run #18; 98% Recovery; RQD=46%
					120				Run #19

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-20

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
									100% Rec.; RQD=23%
					125				Core Drilled Run #20; 100% Recovery; RQD=53%
					130				Core Drilled Run #21; 98% Recovery; RQD=45%
					135			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #22; 96% Recovery; RQD=22%
					140				Core Drilled Run #23; 100% Recovery; RQD=67%
					145				Core Drilled Run #24; 90% Recovery; RQD=42%
					150				Core Drilled Run #25; 100% Recovery; RQD=57%
					155				Core Drilled Run #26; 94% Recovery; RQD=52%
					160				Core Drilled Run #27; 100% Recovery; RQD=38%
					165			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #28; 100% Recovery; RQD=66%
					170				Core Drilled Run #29; 100% Recovery; RQD=55%
					175				Core Drilled Run #30; 100% Recovery; RQD=72%
					180				Core Drilled Run #31; 100% Recovery; RQD=42%
									Run #32

ADVANCED DRILLING, INC.	PROJECT Cornell Dubilier Superfund Site	CLIENT MalcolmPirnie, Inc.	PROJECT NO. ADV-2298	HOLE NUMBER MW-20

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
					185				Core Drilled Run #32; 100% Recovery; RQD=43%
					190				Core Drilled Run #33; 100% Recovery; RQD=57%
					195				Core Drilled Run #34; 100% Recovery; RQD=80%
					200			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #35; 100% Recovery; RQD=595
					205				Core Drilled Run #36; 100% Recovery; RQD=59%
					210				Core Drilled Run #37; 100% Recovery; RQD=65%
					215				Core Drilled Run #38; 100% Recovery; RQD=92%
					220				Core Drilled Run #39; 100% Recovery; RQD=80%
					225				Core Drilled Run #40; 100% Recovery; RQD=93%
					230				Core Drilled Run #41; 100% Recovery; RQD=93%
								Dry to wet red/brown SHALE/SILTSTONE	
					235				Core Drilled Run #42; 100% Recovery; RQD=87%
					240				Core Drilled Run #43; 98% Recovery; RQD=75%
					245				Core Drilled Run #44; 100% Recovery; RQD=51%

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-20

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
					250				Core Drilled Run #45; 90% Recovery; RQD=98%
					255				Core Drilled Run #46; 90% Recovery; RQD=73%
					260			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #47; 100% Recovery; RQD=92%
					265				Core Drilled Run #48; 100% Recovery; RQD=90%
					270				Core Drilled Run #49; 96% Recovery; RQD=60%
					275				Core Drilled Run #50; 100% Recovery; RQD=70%
					280				Core Drilled Run #51; 100% Recovery; RQD=50%
					285				Core Drilled Run #52; 100% Recovery; RQD=50%
					290				Core Drilled Run #53; 100% Recovery; RQD=65%
					295			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #54; 99% Recovery; RQD=60%
					300				Core Drilled Run #55; 86% Recovery; RQD=53%
					305				Core Drilled Run #56; 100% Recovery; RQD=52%
					310				Core Drilled Run #57; 100 % Recovery; RQD=70%

ADVANCED DRILLING, INC.	PROJECT Cornell Dubilier Superfund Site	CLIENT MalcolmPirnie, Inc.	PROJECT NO. ADV-2298	HOLE NUMBER MW-20

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
					315				Core Drilled Run #58; 100% Recovery; RQD=87%
					320				Core Drilled Run #59; 98% Recovery; RQD=64%
					325			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #60; 95% Recovery; RQD=73%
					330				Core Drilled Run #61; 96% Recovery; RQD=57%
					335				Core Drilled Run #62; 100% Recovery; RQD=78%
					340				Core Drilled Run #63; 98% Recovery; RQD=63%
					345				Core Drilled Run #64; 100% Recovery; RQD=52%
					350				Core Drilled Run #65; 100% Recovery; RQD=80%
					355				Core Drilled Run #66; 96% Recovery; RQD=43%
					360			Dry to wet red/brown SHALE/SILTSTONE	Core Drilled Run #67; 100% Recovery; RQD=72%
					365				Core Drilled Run #68; 98% Recovery; RQD=56%
					370				Core Drilled Run #69; 98% Recovery; RQD=60%
					375				Run #70; 98% Rec., RQD=73%

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-20

continuation

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
					380				Core Drilled Run #71; 100% Recovery; RQD=89%
					385				Core Drilled Run #72; 100% Recovered; RQD=60%
					390				Core Drilled Run #73; 100 % Recovery; RQD=90%
								Dry to wet red/brown SHALE/SILTSTONE	
					395				Core Drilled Run #74; 98% Recovery; RQD=50%
					400				Core Drilled Run #75; 98% Recovery; RQD=75%
					405				Core Drilled Run #76; 100% Recovery; RQD=75%
					410				Core Drilled Run #77; 100% Recovery; RQD=87%
				413.0				Bottom of Boring @ 413 Feet	
					415				
					420				
					425				
					430				
					435				
					440				

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-20

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 556	P200900528

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
2-6-09	10-7-09	Craig Conner	MW195150	10"/6"/2.3"	413 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
10	260	Rotary	From Cuttings/Core	8.8 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-20*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *10-7-09*

Drilling Method *Rotary*

Driller *Craig Conner*

Drilling Fluid *water*

Static water level after drilling *8.8 ft.*

Well developed for *2* hours at *10* gpm

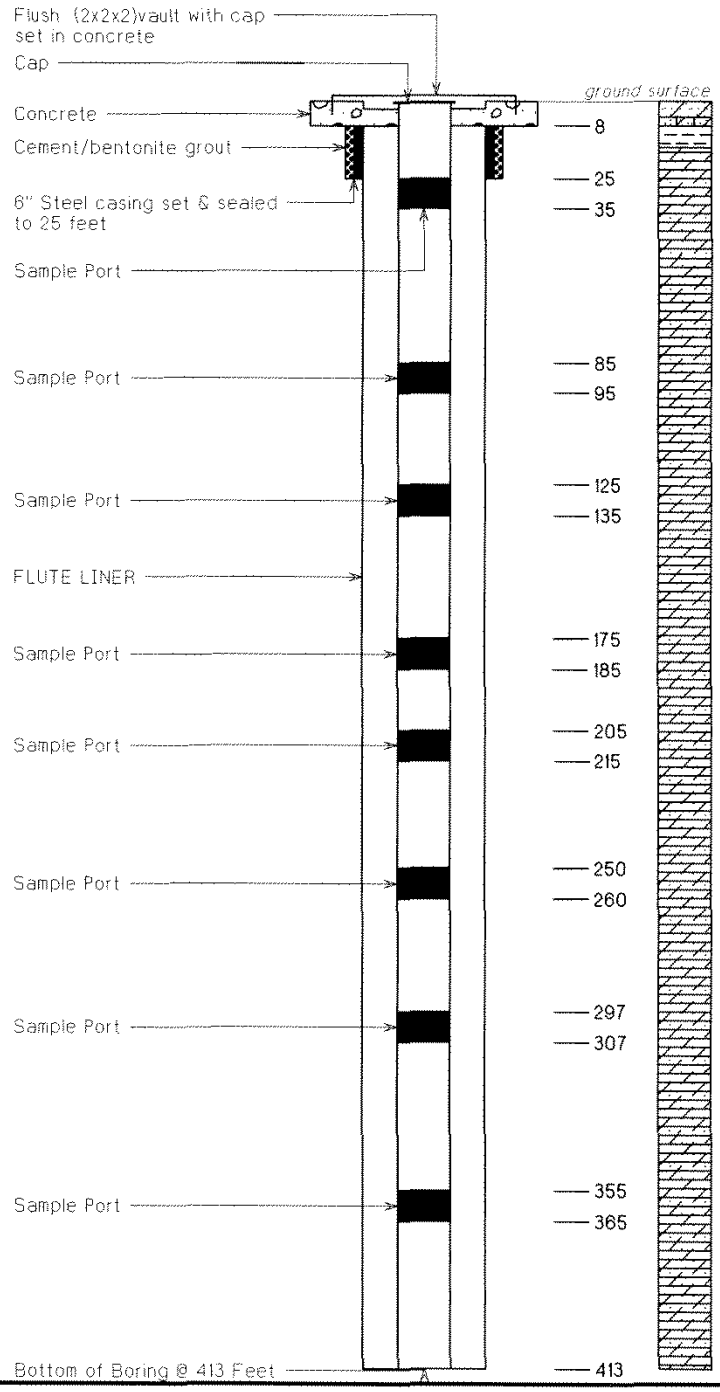
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water red/brown/cloudy to clear*

Prepared By *Craig Conner*

Date Prepared *3/11/10*



ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-21

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 555	P200904381

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
4-13-09	10-7-09	Richard Empson	J 1312	10"/6"	550 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
ROW	ROW	Rotary	From Cuttings	18 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube	of 14

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				.3 .8				2" ASPHALT + 12" GRAVEL	
								Dry brown Silty SAND & GRAVEL	
				5.0	5				
					10			Moist to wet gray Shaley SILT & CLAY, little sand & gravel	
					15				
				20.0	20				
					25			Dry red/brown SHALE/SILTSTONE 20 Feet to 550 Feet	
					30				
					35				

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-21

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 555	P200904381

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
4-13-09	10-7-09	Richard Empson	J 1312	10"/6"	550 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
ROW	ROW	Rotary	From Cuttings	18 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-21*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *10-7-09*

Drilling Method *Rotary*

Driller *Richard Empson*

Drilling Fluid *water*

Static water level after drilling *17 ft.*

Well developed for *3* hours at *10* gpm

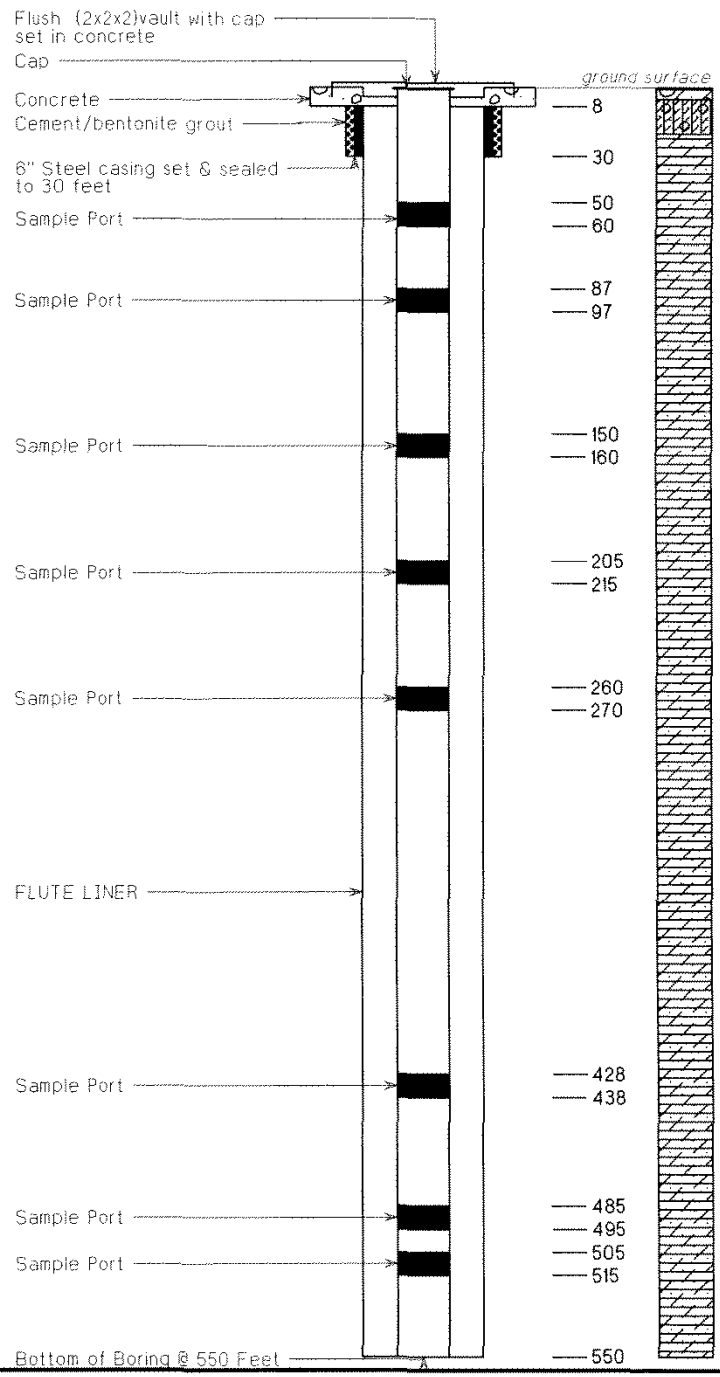
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water cloudy to clear*

Prepared By *Richard Empson*

Date Prepared *3/11/10*



ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-22

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 564	P200904824

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
4-29-09	10-7-09	Richard Empson	J 1312	10"/6"	350 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
ROW	ROW	Rotary	From Cuttings	10 Feet

PROTECTIVE CASING	NOTES	SHEET
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tubes.	1 of 9

DEPTH	SAMPLE NUMBER	BLOWS/6" ON SAMPLE SPOON	"N" VALUE	LAYER *Elev.* Depth	DEPTH	GRAPHIC LOG	SAMPLE	DESCRIPTION AND CLASSIFICATION density, grain size/shape, color, structure composition, sorting, texture, moisture facies, odor	DRILLING NOTES water levels, water return, character of drilling, etc.
				.3				6" ASPHALT	
								Dry brown fine to medium SAND, little silt & gravel	
				4.0	5			Dry red/brown Silty SAND & GRAVEL	
				8.0	10			Wet red/brown SILT & fine SAND	
				16.0	15			Wet red/brown WEATHERED SHALE	
				19.0	20				
					25			Dry to wet red/brown SHALE/SILTSTONE 19 Feet to 350 Feet	
					30				
					35			Bottom of Boring @ 350 Feet	

ADVANCED DRILLING, INC.	PROJECT: Cornell Dubilier Superfund Site	CLIENT: MalcolmPirnie, Inc.	PROJECT NO.: ADV-2298	HOLE NUMBER: MW-22

MUNICIPALITY	COUNTY	STATE	COORDINATES	WELL PERMIT NO.
South Plainfield	Middlesex	New Jersey	25 : 34 : 564	P200904824

START DATE	COMPLETION DATE	DRILLER	DRILLER LICENSE NO.	BORING DIA.	TOTAL DEPTH
4-29-09	10-7-09	Richard Empson	J 1312	10"/6"	350 Feet

LOT	BLOCK	DRILLING METHOD	SAMPLE TYPE	DEPTH OF GROUNDWATER
ROW	ROW	Rotary	From Cuttings	10 Feet

PROTECTIVE CASING	NOTES
Flush	Sample ports shown as one tube for illustration purpose only. Ports are accesed by individual tube

Soil Boring Cross-Reference *MW-22*

Town and City *South Plainfield*

County and State *Middlesex, New Jersey*

Installation Date (s) *10-7-09*

Drilling Method *Rotary*

Driller *Richard Empson*

Drilling Fluid *water*

Static water level after drilling *10 ft.*

Well developed for *3* hours at *10* gpm

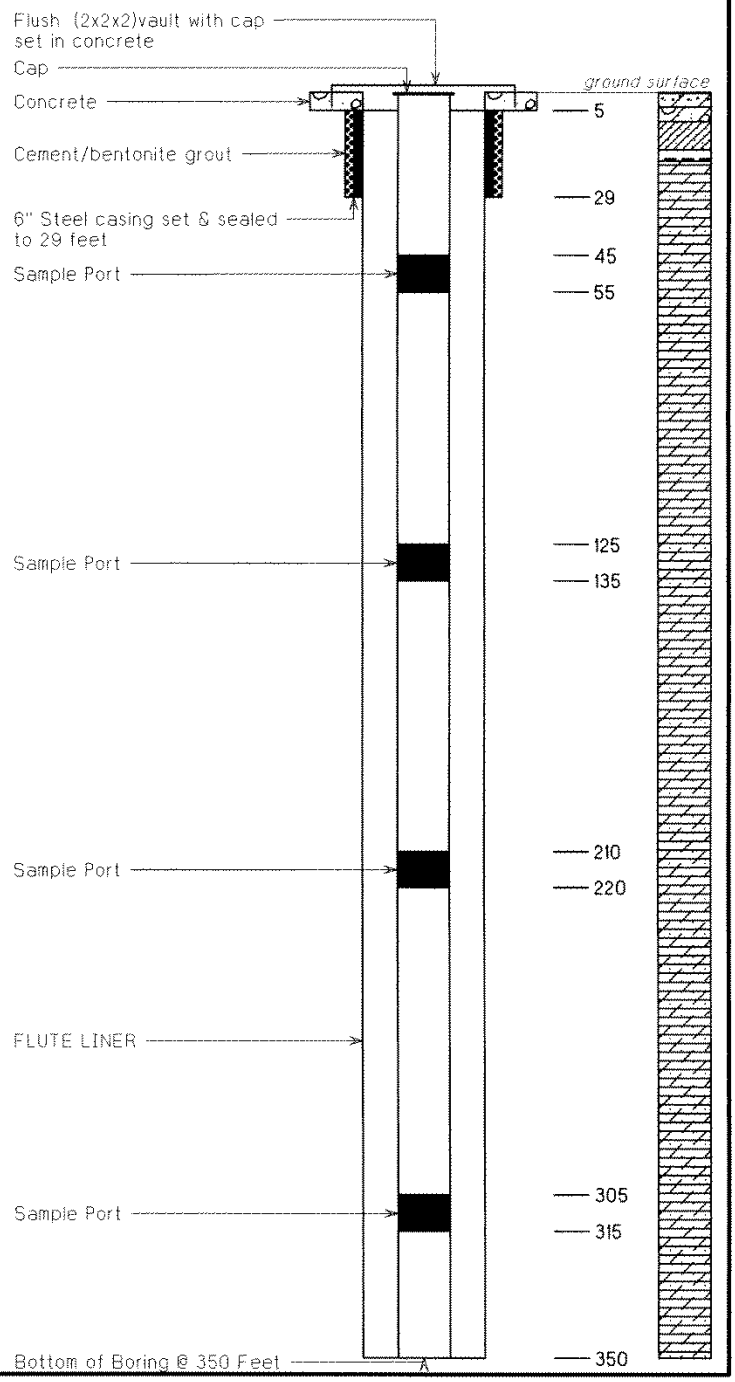
Method of development *Pump*

Well Purpose *Monitoring*

Remarks *Water red/brown/cloudy to clear*

Prepared By *Richard Empson*

Date Prepared *3/11/10*



R2-0016519

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
P200900523

MONITORING WELL RECORD

Atlas Sheet Coordinates
2634591

OWNER IDENTIFICATION USEPA

Address 290 BROADWAY, 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-13

County Middlesex Municipality South Plainfield Boro Lot No. 1 Block No. 257

Address FRONT ST./METUCHEN AVE. CONRAIL YARD

WELL USE Monitoring

DATE WELL STARTED 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 250 ft.

Finished Well Depth 250 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling 13 ft.

Water Level was Measured Using Tape

Well was developed for 4 hours

at 10 gpm

Method of development Pump

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid water Type of Rig GEFCO SS-25

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	Flute	Lined -	See attached		
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0'	18'	6"	STEEL	13#
Open Hole or Screen (No. Used)	18'	250'	6"		
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	18'	10"	Neat Cement Bentonite	564 lbs 30 lbs

Grouting Method TREMIE

Drilling Method HSA/ ROTARY (WATER

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-1' crushed Stone
1'-4' Brown Silty Sand + Gravel
4'-8' Red brown weathered Rock
8'-250' RED Brown Shale + Siltstone

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) Richard D Empson

Driller's Signature Richard Empson

Registration No. J1312 Date 3/11/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 635179 **EASTING:** 517074

OR

LATITUDE: ___° ___' ___.___" **LONGITUDE:** ___° ___' ___.___"

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

R2-0016520

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number
P200900800

Atlas Sheet Coordinates
2534583

OWNER IDENTIFICATION US EPA

Address 290 BROADWAY / 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-14

County Middlesex Municipality South Plainfield Boro Lot No. 14 Block No. 282

Address HAMILTON BLVD. / SPICER AVE FRMR CORNELL-DUBILIER EL

WELL USE Monitoring

DATE WELL STARTED 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 233 ft.

Finished Well Depth 233 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☒ Yes ☐ No

Static Water Level after drilling 16.5 ft.

Water Level was Measured Using Tape

Well was developed for 4 hours

at 10 gpm

Method of development pumping

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid water Type of Rig Gefco SS-25

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	70	6	STEEL	13#
Open Hole or Screen (No. Used)	70	233	6	Flute (See	attached)
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	70	10	Neat Cement Bentonite	940 lbs 50 lbs

Grouting Method TREMIE

Drilling Method WATER ROTARY

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-1' crushed Stone
1'-4' Brown Sand + Gravel
4'-8' Black Sand + gravel
8'-13' Red brown Clay
13'-70' Red brown Siltstone / Shale
70'-233'

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) CRAIG CONNER

Driller's Signature Craig Conner

Registration No. MW195150 Date 3/10/11

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 634521 **EASTING:** 516591

OR

LATITUDE: ___° ___ ___.___" **LONGITUDE:** ___° ___ ___.___"

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

R2-0016521

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
P200906623

MONITORING WELL RECORD

Atlas Sheet Coordinates
2534583

OWNER IDENTIFICATION USEPA

Address 290 BROADWAY 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-14S

County Middlesex Municipality South Plainfield Boro Lot No. 14 Block No. 282

Address HAMILTON BLVD & SPICER AVENUE MW-14S

WELL USE Monitoring

DATE WELL STARTED 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 70 ft.

Finished Well Depth 70 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling 13 ft.

Water Level was Measured Using Tape

Well was developed for 5.5 hours at 10 gpm

Method of development Pump

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid water Type of Rig Gefco SS-25

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing	Flute	Lined	See attached		
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	23	6	STEEL	13#
Open Hole or Screen (No. Used)	23	70	6	Flute	
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	23	10	Neat Cement Bentonite	658 lbs 35 lbs

Grouting Method

Drilling Method HSA / WATER ROTARY

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-1' Crushed Stone
1'-3' Red brown Silt w/ Sand + gravel
3'-8' Gray black silty sand + gravel
8'-13' Red brown Clay + Silt w/ weat weathered Shale
13'-70' Red brown shale / siltstone

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) Richard Empson

Driller's Signature Richard Empson

Registration No. J1312 Date 3/11/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 634528 **EASTING:** 516595

OR

LATITUDE: __ ° __ ' __ . __ " **LONGITUDE:** __ ° __ ' __ . __ "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

R2-0016522

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number
P200904372

Atlas Sheet Coordinates
2534583

OWNER IDENTIFICATION USEPA

Address 290 BROADWAY - 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-15S

County Middlesex Municipality South Plainfield Boro Lot No. 14 Block No. 282

Address HAMILTON BLVD. & SPICER AVENUE MW-15S

WELL USE Monitoring

DATE WELL STARTED 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 100 ft.

Finished Well Depth 100 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☒ Yes ☐ No

Static Water Level after drilling 15 ft.

Water Level was Measured Using Tape

Well was developed for 4 hours at 10 gpm

Method of development Pumping

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid water Type of Rig Gefco SS-25

Health and Safety Plan Submitted? ☒ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	18'	6	STEEL	13#
Open Hole or Screen (No. Used)	18	100	6	Flute (see	attached)
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	18	10	Neat Cement Bentonite	564 lbs 35 lbs

Grouting Method Tremie

Drilling Method HSA / WATER ROTARY

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-4' Brown silt w Sand + gravel
4'-8' Red brown weathered Shale
8'-100' Red brown Shale

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) RICHARD EMPSON

Driller's Signature Richard Empson

Registration No. 01312 Date 3/11/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 634356 **EASTING:** 516414

OR

LATITUDE: ___ ° ___ ' ___.___ " **LONGITUDE:** ___ ° ___ ' ___.___ "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

R2-0016523

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
P200900801

MONITORING WELL RECORD

Atlas Sheet Coordinates
2534583

OWNER IDENTIFICATION US EPA

Address 290 BROADWAY / 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-15(D)

County Middlesex Municipality South Plainfield Boro Lot No. 14 Block No. 282

Address HAMILTON BLVD. & SPICER AVE. FRMR CORNELL-DUBILIER E

WELL USE Monitoring **DATE WELL STARTED** 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 233 ft.

Finished Well Depth 233 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling 16 ft.

Water Level was Measured Using Tape

Well was developed for 7 hours

at 10 gpm

Method of development Pumping

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid water Type of Rig Gefco SS-25

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	100	6	STEEL	13#
Open Hole or Screen (No. Used)	100	233	6	Flute (See	attached)
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	100	10	Neat Cement Bentonite	1128 lbs 60 lbs

Grouting Method TREMIE

Drilling Method HSA / Water Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

0-4' Topsoil, brown silty sand TR clay
4'-7' Red brown weathered Shale
7'-233' Red brown Shale

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) Richard Empson

Driller's Signature Richard Empson

Registration No. 01312 Date 3/10/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 634367 **EASTING:** 516420

OR

LATITUDE: __ ° __ ' __.__ " **LONGITUDE:** __ ° __ ' __.__ "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

R2-0016524

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
P200900524

MONITORING WELL RECORD

Atlas Sheet Coordinates
2534583

OWNER IDENTIFICATION USEPA

Address 290 BROADWAY, 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-16

County Middlesex Municipality South Plainfield Boro Lot No. 14A Block No. 282

Address HAMILTON BLVD. & SPICER AVE. FORMER CORNELL-DUBILIE

WELL USE Monitoring

DATE WELL STARTED 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 254 ft.

Finished Well Depth 254 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling ____ ft.

Water Level was Measured Using ____

Well was developed for 1.5 hours

at 7 gpm

Method of development Pumping

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid water Type of Rig Gefco SS-25

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	20	6	STEEL	13#
Open Hole or Screen (No. Used)	20	254	6	Flute - See	attached
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	20	10	Neat Cement Bentonite	658 lbs 35 lbs

Grouting Method Tremie

Drilling Method HSA/WATER ROTARY

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

4" Blacktop

4"-7' Red brown silty sand & gravel

7'-10' Red brown weathered shale

10'-254 Red brown shale/siltstone

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) CRAIG CONNOR

Driller's Signature Craig Connor

Registration No. NW195750 Date 3/11/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 635232 **EASTING:** 516283

OR

LATITUDE: __ ° __ ' __.__ " **LONGITUDE:** __ ° __ ' __.__ "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

R2-0016525

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
P200900525

MONITORING WELL RECORD

Atlas Sheet Coordinates
2534583

OWNER IDENTIFICATION USEPA

Address 290 BROADWAY, 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-17

County Middlesex Municipality South Plainfield Boro Lot No. 10 Block No. 329

Address 116 NEW MARKET AVE. COMMUNITY POLICE OFFICE

WELL USE Monitoring

DATE WELL STARTED 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 250 ft.

Finished Well Depth 250 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling 23 ft.

Water Level was Measured Using Tape

Well was developed for 4 hours at 10 gpm

Method of development pumping

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid water Type of Rig Gefco SS-25

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	20	6	STEEL	13#
Open Hole or Screen (No. Used)	20	250	6	Flute - See	attached
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	20	10	Neat Cement Bentonite	658 lbs 35 lbs

Grouting Method Tremie

Drilling Method HSA / water Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

4" asphalt
4" - 4' Brown Green Silty Sand + Gravel
4' - 9' Green gray Silty Sand gravel
9' - 250' Red brown Shale/siltstone

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) Richard Empson

Driller's Signature Richard Empson

Registration No. J1312 Date 3/11/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 634981 **EASTING:** 515908

OR

LATITUDE: __° __ ' __.__ " **LONGITUDE:** __° __ ' __.__ "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

R2-0016526

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
P200900522

MONITORING WELL RECORD

Atlas Sheet Coordinates
2534581

OWNER IDENTIFICATION USEPA

Address 290 BROADWAY, 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-18

County Middlesex Municipality South Plainfield Boro Lot No. 46.01 Block No. 315

Address PULASKI ST. & AMBOY AVE.

WELL USE Monitoring

DATE WELL STARTED 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 250 ft.

Finished Well Depth 250 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☐ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling 9.5 ft.

Water Level was Measured Using Tape

Well was developed for 5 hours

at 10 gpm

Method of development Pumping

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid Water Type of Rig Gefco SS-25

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	22	6	STEEL	13#
Open Hole or Screen (No. Used)	22	258	6	Flute (see attached)	
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	22	10	Neat Cement Bentonite	658 lbs 35 lbs

Grouting Method TREMIE

Drilling Method HSA / WATER ROTARY

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

4" asphalt
4"-3' Brown-Gray silt w sand + gravel
3'-5' Brown/olive clay + sand
5'-10' Red brown silty sand + clay
10'-12' Red brown weathered shale
12'-250' Red brown shale

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) Richard Empson

Driller's Signature Richard Empson

Registration No. 71512 Date 3/11/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 634620 **EASTING:** 514526

OR

LATITUDE: ___° ___' ___.___" **LONGITUDE:** ___° ___' ___.___"

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

R2-0016527

New Jersey Department of Environmental Protection
Bureau of Water Allocation

MONITORING WELL RECORD

Well Permit Number
P200904823

Atlas Sheet Coordinates
2534552

OWNER IDENTIFICATION USEPA

Address 290 BROADWAY 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-19

County Middlesex Municipality South Plainfield Boro Lot No. ROW Block No. ROW

Address FAIRLAMB AVE. & LANE AVE. MW-19

WELL USE Monitoring

DATE WELL STARTED 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 600 ft.

Finished Well Depth 600 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling ____ ft.

Water Level was Measured Using ____

Well was developed for 6 hours

at 10 gpm

Method of development Pumping

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid mud/water Type of Rig Gefco SS-25

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	57	6	STEEL	13#
Open Hole or Screen (No. Used)	57	600	6	Flute (See attached)	
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	57	10	Neat Cement Bentonite	940 lbs 50 lbs

Grouting Method Tremie

Drilling Method mud/water Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

4" asphalt
4"-2' Gray gravel + Sand
2'-7' Red brown silty sand
7'-15' Gray silt + Clay w Sand
15'-28' Red brown silty sand + Clay
28'-47' Red brown weathered Shale w/ silt + Clay
47-600 Red brown shale/siltstone

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) Richard Empson

Driller's Signature Richard Empson

Registration No. 71312 Date 3/14/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 638511 **EASTING:** 515674

OR

LATITUDE: __ ° __ ' __.__ " **LONGITUDE:** __ ° __ ' __.__ "

ORIGINAL: DEP *COPIES: DRILLER* *OWNER* *HEALTH DEPARTMENT*

R2-0016528

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
P200900528

MONITORING WELL RECORD

Atlas Sheet Coordinates
2534556

OWNER IDENTIFICATION USEPA

Address 290 BROADWAY, 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-20

County Middlesex Municipality South Plainfield Boro Lot No. 10 Block No. 260

Address MAPLE AVE & PLAINFIELD AVE. S. PLAINFIELD POLICE & FIRE

WELL USE Monitoring

DATE WELL STARTED 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 413 ft.

Finished Well Depth 413 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling 9 ft.

Water Level was Measured Using Tape

Well was developed for 5 hours

at 10 gpm

Method of development Pumping

Pump Capacity ____ gpm

Pump Type submersible

Drilling Fluid water Type of Rig Geffco SS-25

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	25	6	STEEL	13#
Open Hole or Screen (No. Used)	25	413	6	Flute (See attached)	
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	25	10	Neat Cement Bentonite	658 lbs 35 lbs

Grouting Method TREMIE

Drilling Method HSA/water Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

4" asphalt
4"-5' Brown silty sand / clay
5'-9' Brown silty sand w/clay TR organics
9'-15' Red brown weathered shale
15'-413' Red brown shale / siltstone

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) CRAIG CONNER

Driller's Signature Craig Conner

Registration No. MW195150 Date 3/11/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 637131 **EASTING:** 516091

OR

LATITUDE: ___° ___' ___.___" **LONGITUDE:** ___° ___' ___.___"

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

R2-0016529

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number P200904381

MONITORING WELL RECORD

Atlas Sheet Coordinates 2534555

OWNER IDENTIFICATION USEPA

Address 290 BROADWAY 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-21

County Middlesex Municipality South Plainfield Boro Lot No. ROW Block No. ROW

Address LOWDEN AVE. & WILLOW AVENUE MW-21

WELL USE Monitoring

DATE WELL STARTED 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 550 ft.

Finished Well Depth 550 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling ____ ft.

Water Level was Measured Using ____

Well was developed for 9 hours

at 10 gpm

Method of development pumping

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid water Type of Rig Gefco SS-25

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None D C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	30	6	STEEL	13#
Open Hole or Screen (No. Used)	30	550	6	flute (see attached)	
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	30	10	Neat Cement Bentonite	846 lbs 45 lbs

Grouting Method Tremie

Drilling Method HSA / water Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

2" asphalt & gravel
2'-5' brown silty sand & gravel
5'-10' Gray/brown/black silt + clay w/sand
10'-20' Red brown clay + silt w/weathered shale
20'-550' Red brown shale/siltstone

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) Richard Empson

Driller's Signature Richard Empson

Registration No. 71312 Date 3/1/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 637069 **EASTING:** 519929

OR

LATITUDE: __ ° __ ' __.__ " **LONGITUDE:** __ ° __ ' __.__ "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

R2-0016530

New Jersey Department of Environmental Protection
Bureau of Water Allocation

Well Permit Number
P200904824

MONITORING WELL RECORD

Atlas Sheet Coordinates
2534564

OWNER IDENTIFICATION USEPA

Address 290 BROADWAY 19TH FLOOR

City NEW YORK State New York Zip Code 10007

WELL LOCATION - If not the same as owner please give address **Owner's Well No.** MW-22

County Middlesex Municipality South Plainfield Boro Lot No. ROW Block No. ROW

Address LEONARD AVE. (ROW) MW-22

WELL USE Monitoring **DATE WELL STARTED** 10-7-09

DATE WELL COMPLETED 10-7-09

WELL CONSTRUCTION

Total Depth Drilled 350 ft.

Finished Well Depth 350 ft.

Borehole Diameter:

Top 10 in.

Bottom 6 in.

Well was finished: ☐ above grade ☑ flush mounted

If finished above grade, casing height (stick up) above land surface ____ ft.

Steel protective casing installed? ☑ Yes ☐ No

Static Water Level after drilling 10 ft.

Water Level was Measured Using Tape

Well was developed for 5 hours

at 10 gpm

Method of development Pumping

Pump Capacity ____ gpm

Pump Type Submersible

Drilling Fluid water Type of Rig Gefco SS-25

Health and Safety Plan Submitted? ☑ Yes ☐ No

Level of Protection used on site (circle one) None (D) C B A

Note: Measure all depths from land surface	Depth to Top (ft.)	Depth to Bottom (ft.)	Diameter (inches)	Material	Wgt./Rating (lbs/sch no.)
Single/Inner Casing					
Middle Casing (for triple cased wells only)					
Outer Casing (largest diameter)	0	29	6	STEEL	13#
Open Hole or Screen (No. Used)	29	350	6	Flute - See	attached
Blank Casings (No. Used)					
Tail Piece					
Gravel Pack					
Grout	0	29	10	Neat Cement Bentonite	846 lbs 45 lbs

Grouting Method TREMIE

Drilling Method HSA / Water Rotary

GEOLOGIC LOG

Note each depth where water was encountered in consolidated formations

6" asphalt
6"-4' Brown f-m sand w silt + gravel
4'-16' Red brown silt w sand + gravel
16'-19' Red brown weathered shale
19'-350' Red brown shale / siltstone

I certify that I have constructed the above referenced well in accordance with all well permit requirements and applicable State rules and regulations.

Drilling Company ADVANCED DRILLING INC

Well Driller (Print) Richard Empson

Driller's Signature Richard Empson

Registration No. J1312 Date 3/11/10

AS-BUILT WELL LOCATION (NAD 83 HORIZONTAL DATUM)

NJ STATE PLANE COORDINATE IN US SURVEY FEET

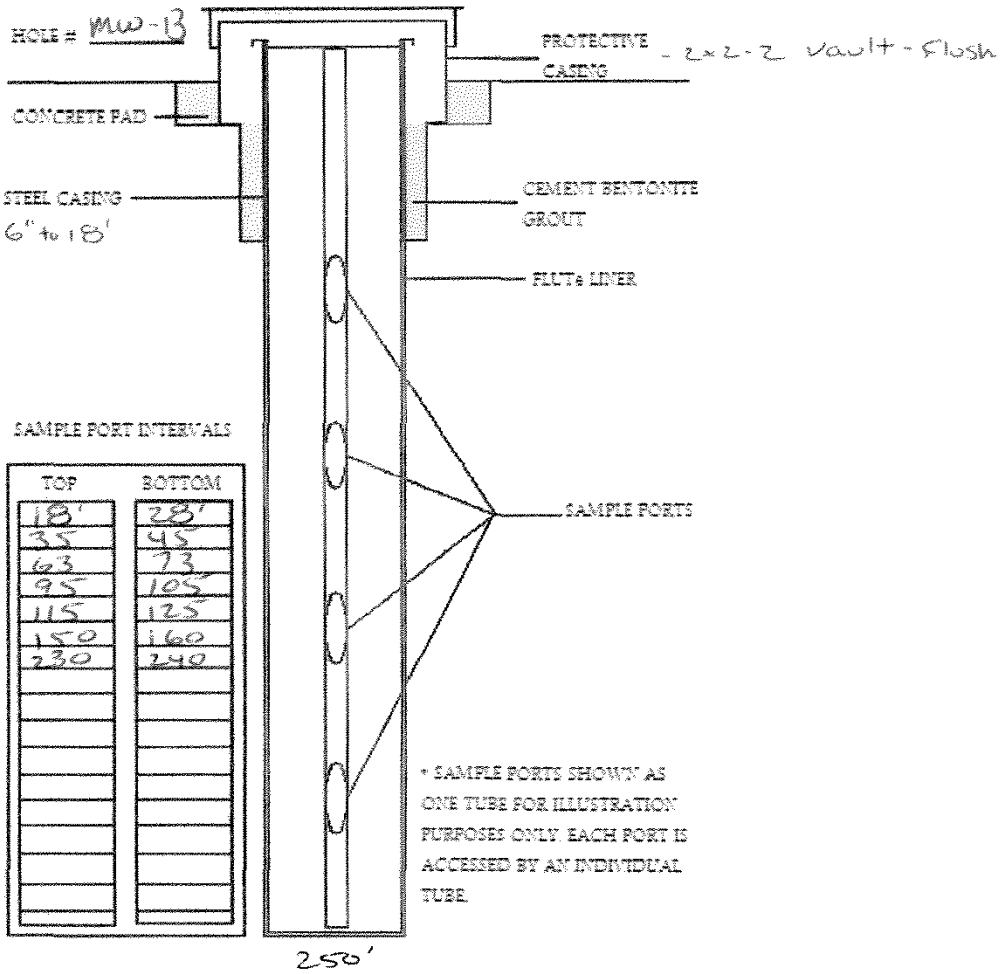
NORTHING: 636939 **EASTING:** 517636

OR

LATITUDE: __ ° __ ' __.__ " **LONGITUDE:** __ ° __ ' __.__ "

ORIGINAL: DEP ***COPIES: DRILLER*** ***OWNER*** ***HEALTH DEPARTMENT***

R2-0016531



SAMPLE PORT INTERVALS

TOP	BOTTOM
18'	28'
35	45
63	73
95	105
115	125
150	160
230	240

DWR-133M
2/08

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

P200900523

Permit No _____

Mail To
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D E P

COORD # 25 . 34 . 591

Owner USEPA
Address 290 Broadway, 19th Floor
New York, NY 10007

Driller Advanced Drilling Inc
Address 3 Colt Rd
Pittstown, NJ 08867

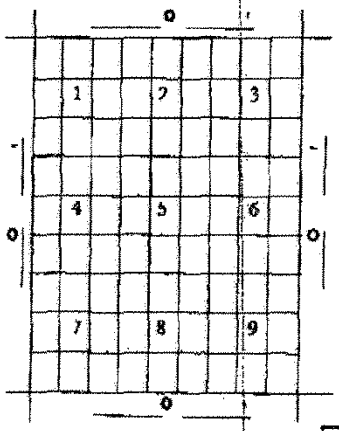
Name of Facility Conrail Yard
Address Front St/Metuchen Ave
South Plainfield, NJ 07080

Diameter of Well(s)	6 inches	Proposed Depth of Well(s)	250 Feet
# of Wells Applied for (max 10)	1	Will pumps, equipment be utilized?	YES ☐ NO ☑
Type of Well (see reverse)	Monitoring	If Yes give pump capacity	cumulative GPM

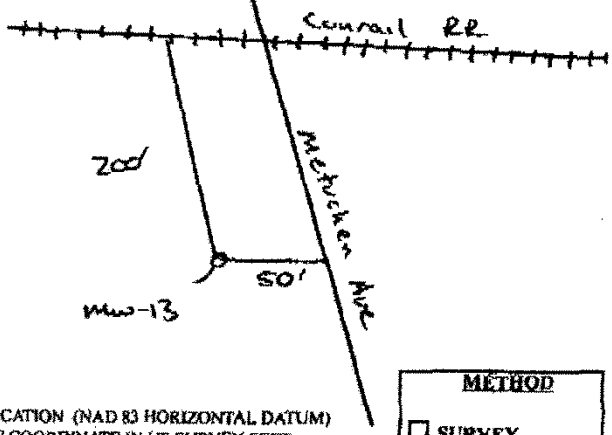
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
1	257	South Plainfield	Middlesex

State Atlas Map No. Map 25



Draw sketch of well(s) nearest roads, buildings, etc with marked distances in feet Each well MUST be labeled with a name and/or number on the sketch



N ↑

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING 635191 EASTING 517082

METHOD
☐ SURVEY
☑ DIGITAL IMAGE
☐ GPS

FOR MONITORING WELLS, RECOVERY WELLS OR PIEZOMETERS THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED

☐ RCRA Site
☐ Underground Storage Tank Site
☐ Operational Ground Water Permit Site
☐ Pretreatment and Residuals Site
☐ Water and Hazardous Waste Enforcement Case
☐ Water Supply Aquifer Test Observation Well
☐ Other (explain)

☐ Spill Site
☐ ISRA Site
☑ CERCLA (Superfund) Site

CASE I D Number
NSD 981557879

This Space for Approval Stamp

WELL PERMIT APPROVAL
NJ DEP
JAN 21 2009
BUREAU OF WATER SYS
& WELL PERMITTI

FOR DEP USE ☐ Issuance of this permit is subject to the conditions attached (see next page) ☑ For monitoring purposes only
ATTACHED DEVIATION REQUEST IS HEREBY APPROVED [illegible] 1/10/09

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT
In compliance with N J S A 58 4A 14 application is made for a permit to drill a well as described above.

Date 12-23-08 Signature of Driller [illegible] Registration No M1578
Signature of Property Owner [illegible] for USEPA

COPIES Water Systems & Well Permitting - White Health Dept - Yellow Owner - Blue Driller - White

R2-0016533

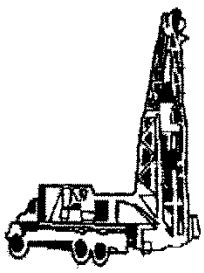
P200900523
25.34.591

ADVANCED DRILLING, INC.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NEW JERSEY 08625-0426

RE: Request for Deviation from Construction Standards
Permit Numbers: P200900523, P200906623, P200900800, P200904372, P200900801, P200900524, P200900525, P200900522, P200904823, P200900528, P200904381

1.	Purpose:	Installation of Flute Multi-Zone Wells
2.	Facility:	Cornell Dubilier Superfund Site Hamilton Blvd & New Market Ave South Plainfield, New Jersey Middlesex County Lot 14, Block 282
3.	Owner:	USEPA 290 Broadway, 19th Floor New York, NY 10007
4:	Driller:	Advanced Drilling, Inc. 3 Colt Road Pittstown, NJ 08867 908-730-7060
5:	Construction:	Once the overburden is cased 10' into bedrock, the Water FLUTe system will be installed in a 6"hole
6:	Reason:	The system does not require a screen, casing or filter pack, The required annulus will not be met
7:	Method:	The hole will be drilled with 10" to install 6" steel casing 10' into competent bedrock, the hole below the casing will drilled with a 6" roller bit to various depths (250'-600'), once t the final depth the hole will be fitted with the FLUTe system
8:	Case Manager:	Peter Mananio at UPEPA 212-637-4429
9:	Consultant:	Malcolm Pirnie, Inc. Jeff Frederick (201)797-7400 17-17 Route 208 North Fair Lawn, New Jersey 07401



P 200900523
25.34.591

MW-33

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]				
		7 ports		
18	[redacted]			
19				
20				
21				
22		#1	10 foot	
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35	[redacted]			
36				
37				
38				
39		#2	10 foot	
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63	[redacted]			
64				
65				
66				
67		#3	10 foot	
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95	[redacted]			
96				
97				
98				
99		#4	10 foot	
100				
101				
102				
103				
104				
105				
106				
107				

MW-34S

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]				
		3 ports		
25				
26				
27				
28				
29				
30	[redacted]			
31				
32		#1	5 foot	
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55	[redacted]			
56				
57		#2	5 foot	
58				
59				
60				
61				
62				
63				
64				
65	[redacted]			
66				
67		#3	5 foot	
68				
69				
70				

P 2009 QD 523
25. 34.591

[redacted] #5 10 feet

[redacted] #6 10 feet

f 2009 00523
25·34·591

218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
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236
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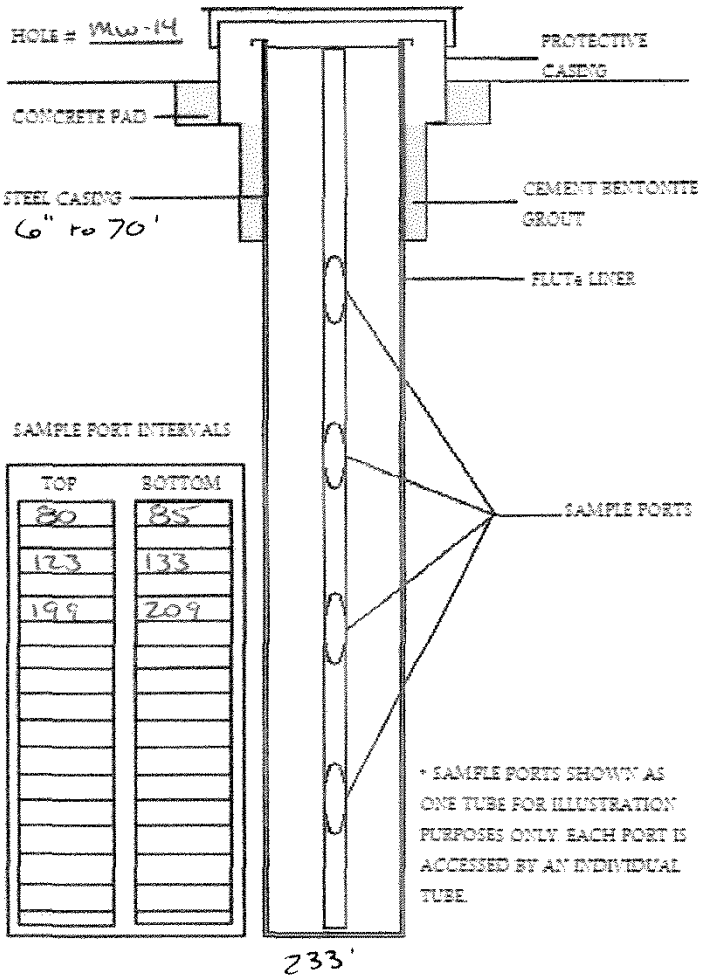
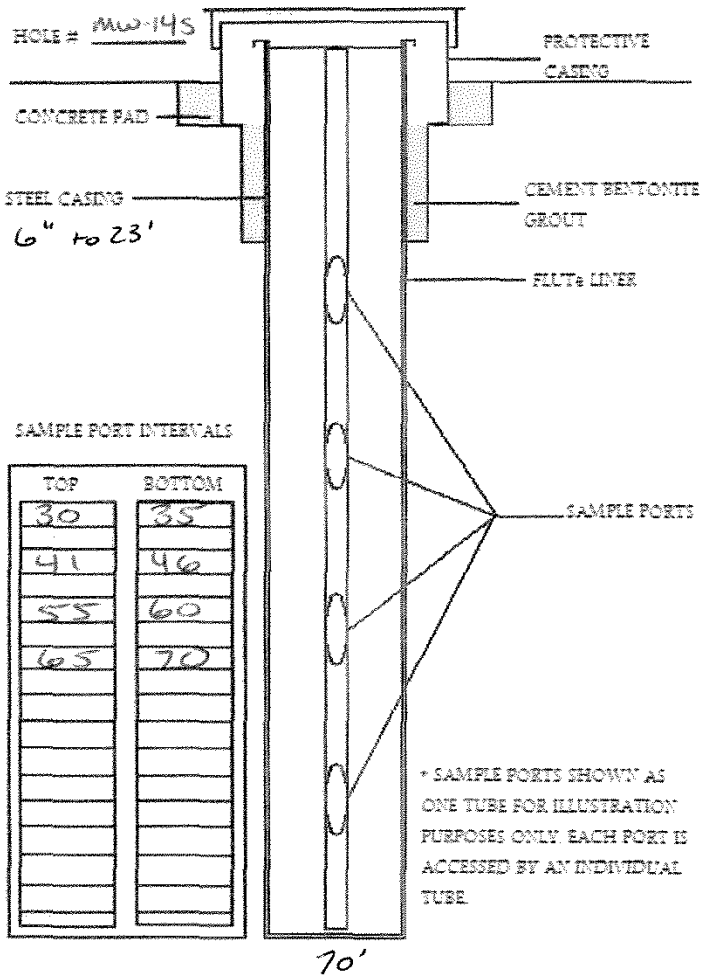
242
243
244
245
246
247
248
249
250

[redacted]

87 10 (km


HOLE # MW-14
PROTECTIVE CASING
CONCRETE PAD
STEEL CASING
6" to 70'
CEMENT BENTONITE GROUT
FLUTe LINER
SAMPLE PORT INTERVALS
TOP
BOTTOM
80
85
123
133
199
209
SAMPLE PORTS
* SAMPLE PORTS SHOWN AS ONE TUBE FOR ILLUSTRATION PURPOSES ONLY. EACH PORT IS ACCESSED BY AN INDIVIDUAL TUBE.
233'


HOLE # MW-14S
PROTECTIVE CASING
CONCRETE PAD
STEEL CASING
6" to 23'
CEMENT BENTONITE GROUT
FLUTe LINER
SAMPLE PORT INTERVALS
TOP
BOTTOM
30
35
41
46
55
60
65
70
SAMPLE PORTS
* SAMPLE PORTS SHOWN AS ONE TUBE FOR ILLUSTRATION PURPOSES ONLY. EACH PORT IS ACCESSED BY AN INDIVIDUAL TUBE.
70'

DWR-133M
1/09

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermit@dep.state.nj.us

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

Permit No. P20090623

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 25 . 34 . 583

Owner: US EPA
Address: 290 Broadway 19th Floor
New York, NY 10007

Driller: Advanced Drilling Inc
Address: 3 Colt Rd
Pittstown, NJ 08867

Name of Facility: Former Cornell-Dubilier Electronics
Address: Hamilton Blvd + Spicer Ave
South Plainfield, NJ 07080

Diameter of Well(s)	6 Inches	Proposed Depth of Well(s)	100 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☑
Type of Well (see reverse)	monitoring	If Yes, give pump capacity	— cumulative GPM

LOCATION OF WELL(S)

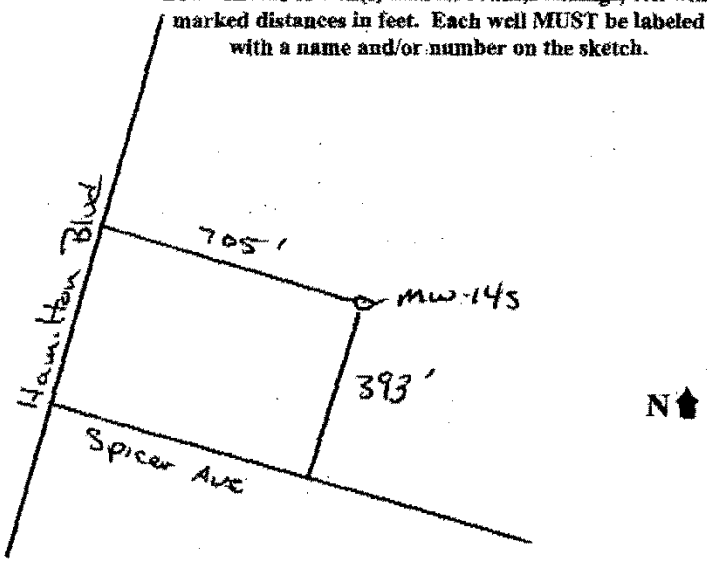
Lot #	Block #	Municipality	County
14	282	South Plainfield	Middlesex

LOCAL ID	NORTHING (Y)	EASTING (X)
MW-14S	634561	516579

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
☐ SURVEY ☑ DIGITAL IMAGE ☐ GPS

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☑ CERCLA (Superfund) Site

CASE I.D. Number: NJD 981557879

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.
MAY 29 2009
BUREAU OF WATER SYS. & WELL PERMITTING

FOR D.E.P. USE
☐ Issuance of this permit is subject to the conditions attached. (see next page)
☐ For monitoring purposes only
☒ ATTACHED DEVIATION REQUEST IS HEREBY APPROVED. [illegible] 5/10/09

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date: 5-1-09
Signature of Driller: [illegible]
Registration No. M578
Signature of Property Owner: Jeffrey Fiedler, RPM for USEPA

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

R2-0016540

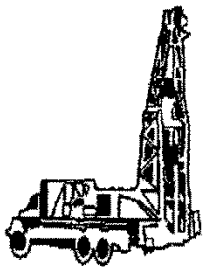
P200906623
25·37·583

ADVANCED DRILLING, INC.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NEW JERSEY 08625-0426

RE: Request for Deviation from Construction Standards
Permit Numbers: P200900523, P200906623, P200900800, P200904372, P200900801, P200900524, P200900525, P200900522, P200904823, P200900528, P200904381

1.	Purpose:	Installation of Flute Multi-Zone Wells
2.	Facility:	Cornell Dubilier Superfund Site Hamilton Blvd & New Market Ave South Plainfield, New Jersey Middlesex County Lot 14, Block 282
3.	Owner:	USEPA 290 Broadway, 19th Floor New York, NY 10007
4:	Driller:	Advanced Drilling, Inc. 3 Colt Road Pittstown, NJ 08867 908-730-7060
5:	Construction:	Once the overburden is cased 10' into bedrock, the Water FLUTe system will be installed in a 6"hole
6:	Reason:	The system does not require a screen, casing or filter pack, The required annulus will not be met
7:	Method:	The hole will be drilled with 10" to install 6" steel casing 10' into competent bedrock, the hole below the casing will drilled with a 6" roller bit to various depths (250'-600'), once t the final depth the hole will be fitted with the FLUTe system
8:	Case Manager:	Peter Mananio at UPEPA 212-637-4429
9:	Consultant:	Malcolm Pirnie, Inc. Jeff Frederick (201)797-7400 17-17 Route 208 North Fair Lawn, New Jersey 07401



P200906623
25.34.583

MW-13

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]				
		7 ports		
18	[redacted]			
19				
20				
21				
22		#1	10 feet	
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35	[redacted]			
36				
37				
38				
39		#2	10 feet	
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63	[redacted]			
64				
65				
66				
67		#3	10 feet	
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95	[redacted]			
96				
97				
98				
99		#4	10 feet	
100				
101				
102				
103				
104				
105				
106				
107				

MW-14S

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]				
		3 ports		
25				
26				
27				
28				
29				
30	[redacted]			
31				
32		#1	5 feet	
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55	[redacted]			
56				
57		#2	5 feet	
58				
59				
60				
61				
62				
63				
64				
65	[redacted]			
66				
67		#4	5 feet	
68				
69				
70				

P200906623

25·34·583

[redacted]

#5 10 feet

[redacted]

#6 10 feet

P200506623
25.34.583

218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
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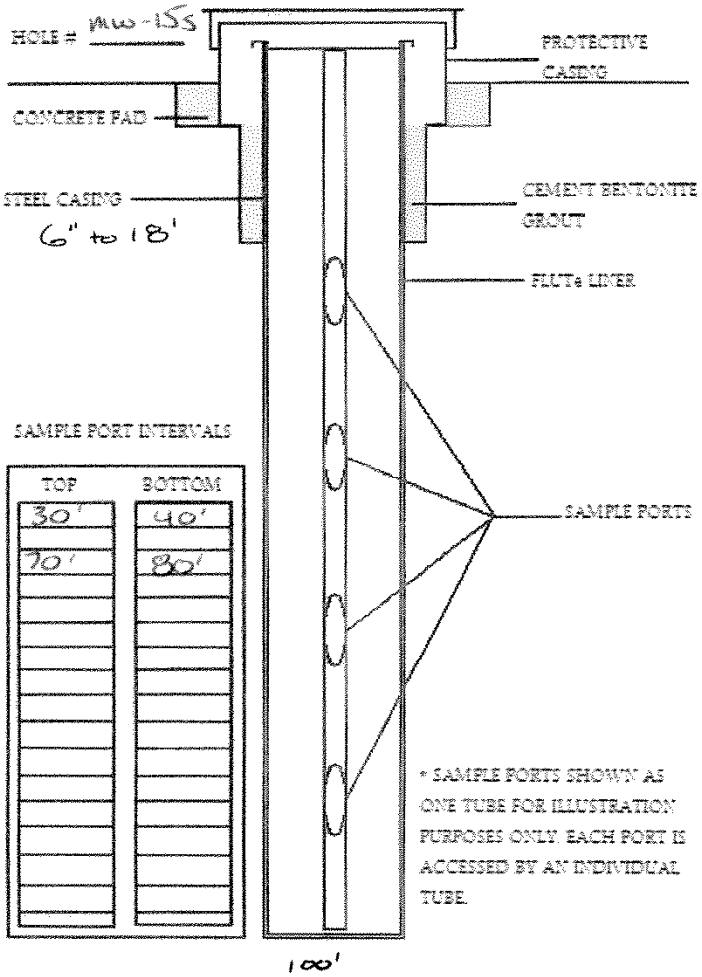
239
240
241
242
243
244
245
246
247
248
249
250

[redacted]

10 feet


HOLE # MW-155
PROTECTIVE CASING
CONCRETE PAD
STEEL CASING
6" to 18'
CEMENT BENTONITE GROUT
FLUTe LINER
SAMPLE PORT INTERVALS
TOP
BOTTOM
30'
40'
70'
80'
SAMPLE PORTS
* SAMPLE PORTS SHOWN AS ONE TUBE FOR ILLUSTRATION PURPOSES ONLY. EACH PORT IS ACCESSED BY AN INDIVIDUAL TUBE.
100'

DWR-133M
2/08

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

Permit No. P200904372

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON NJ 08625-0426

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 25 . 34 . 583

Owner US EPA

Address 290 BROADWAY, 19th Floor
New York, NY 10007

Driller Advanced Drilling Inc

Address 3 Colt Rd
Pittstown, NJ 08867

Name of Facility Former Cornell-Dubilier Electronics

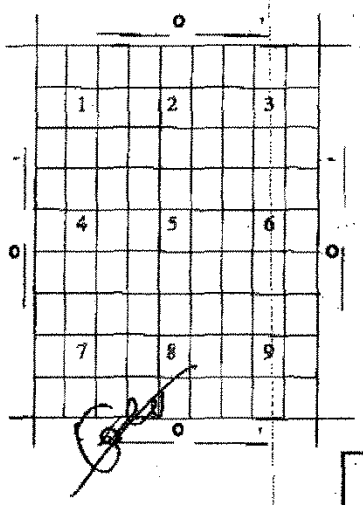
Address Hamilton Blvd + Spicer Ave
South Plainfield, NJ 07080

Diameter of Well(s)	6 inches	Proposed Depth of Well(s)	230 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☑
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

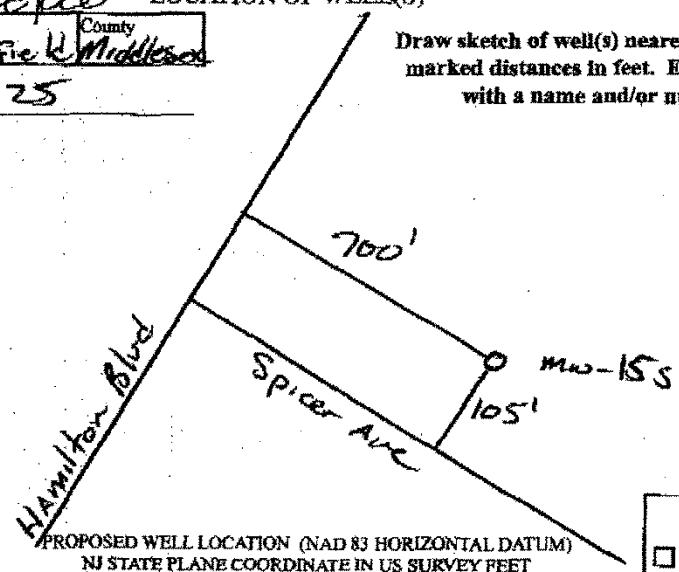
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
14	282	S. Plainfield	Middlesex

State Atlas Map No. 25



Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING: 634353 EASTING: 516433

METHOD
☐ SURVEY
☑ DIGITAL IMAGE
☐ GPS

FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☑ CERCLA (Superfund) Site

CASE I.D. Number NJD 981557879

This Space for Approval Stamp
WELL PERMIT APPROVED
N.J. D.E.P.
APR 21 2009
BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR D.E.P. USE ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☑ For monitoring purposes only.
☑ ATTACHED DEVIATION REQUEST IS HEREBY APPROVED. 4/20/09

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 3-27-09 Signature of Driller [signature] Registration No. M1578

Signature of Property Owner [signature] for USEPA

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

R2-0016546

P2009043
25:34:58.

MW-14D

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]		2 ports		
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80	[redacted]			
81				
82		#1	5 feet	
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				
101				
102				
103				
104				
105				
106				
107				

MW-15S

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]		2 ports		
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30	[redacted]			
31				
32				
33				
34				
35		#1	10 feet	
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70	[redacted]			
71				
72				
73				
74				
75		#2	10 feet	
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
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93				
94				
95				
96				
97				
98				
99				
100				

MW-15D

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]		2 ports		
101				
102				
103				
104				
105				
106				
107				

P200904372

25.34.583

[redacted]

#2 10 feet

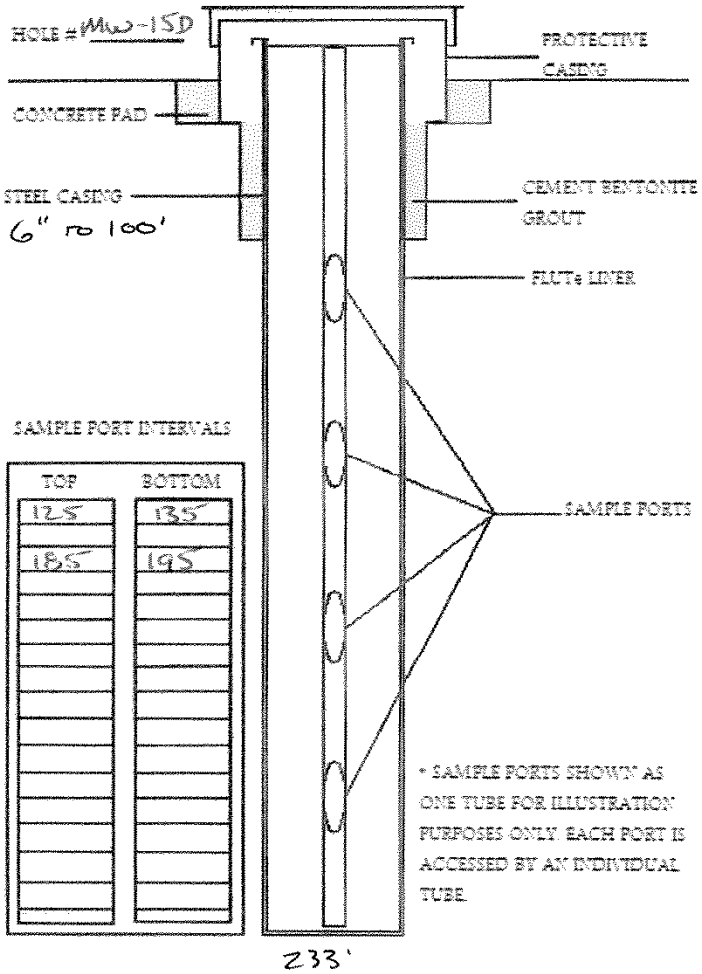
[redacted]

#1 10 feet

[redacted]

#2 10 feet

P200904372
25.34.583


HOLE # MW-15D
PROTECTIVE CASING
CONCRETE PAD
STEEL CASING
6" to 100'
CEMENT BENTONITE GROUT
FLUTe LINER
SAMPLE PORT INTERVALS
TOP
BOTTOM
125
135
185
195
SAMPLE PORTS
* SAMPLE PORTS SHOWN AS ONE TUBE FOR ILLUSTRATION PURPOSES ONLY. EACH PORT IS ACCESSED BY AN INDIVIDUAL TUBE.
233'

DWR-133M
5/06

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

P200900800
-Thru-

Permit No. P200900801

Mail To
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D E P

COORD # 25 .34 .583

Owner US EPA

Address 290 Broadway, 19th Floor
New York, NY 10007

Driller Advanced Drilling Inc

Address 3 Colt Rd
Pittstown, NJ 08867

Name of Facility Fence Cornell-Dubilier Electronics

Address Hamilton Blvd and Spicer Ave
South Plainfield, NJ 07080

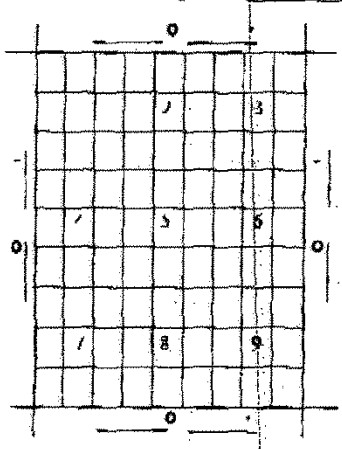
Diameter of Well(s)	6 inches	Proposed Depth of Well(s)	250 Feet
# of Wells Applied for (max 10)	2	Will pumping equipment be installed?	YES ☐ NO ☑
Type of Well (see reverse)	monitoring	If Yes give pump capacity	cumulative GPM

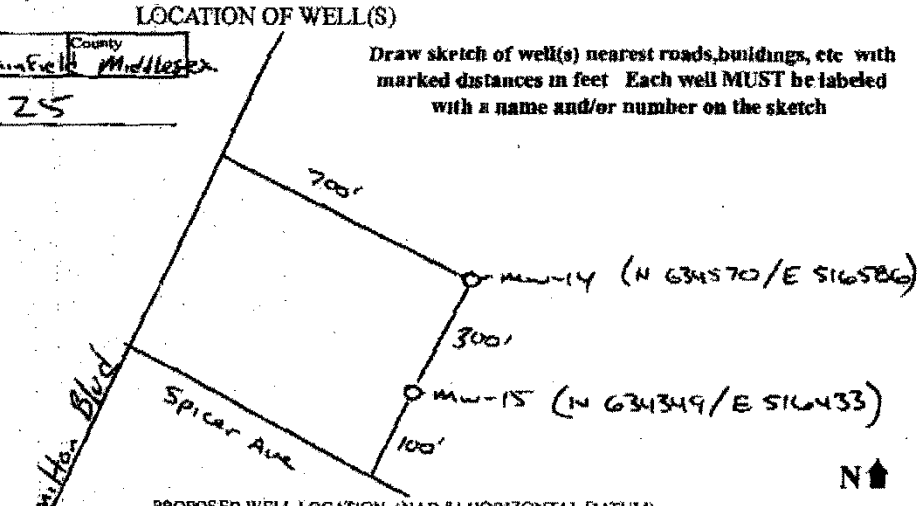
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
14	282	South Plainfield	Middlesex

State Atlas Map No. 8 and 25

Draw sketch of well(s) nearest roads, buildings, etc with marked distances in feet Each well MUST be labeled with a name and/or number on the sketch





PROPOSED WELL LOCATION (NAD 81 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING		EASTING	
OR			
LATITUDE	° ' "	LONGITUDE	° ' "

FOR MONITORING WELLS RECOVERY WELLS OR PIEZOMETERS THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☑ CERCLA (Superfund) Site

CASE I.D. Number
NJD 981557879

WELL PERMIT APPROVED
NJ DEP
JAN 26 2009

FOR DEP USE ☐ Issuance of this permit is subject to the conditions attached (see next page) ☑ For monitoring purposes only

ATTACHED DERIVATION REQUEST IS HEREBY APPROVED FOR BOTH WELLS.
Steve Flanagan 1/10/09

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT
In compliance with N.J.S.A. 58:4A-14 application is made for a permit to drill a well as described above.

Date 12-23-08

Signature of Driller

Registration No M1578

Signature of Property Owner Jeffrey Fredrick for USEA

COPIES Water Systems & Well Permitting - White Health Dept - Yellow Owner - Blue Driller - White

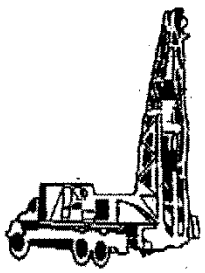
R2-0016551

ADVANCED DRILLING, INC.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NEW JERSEY 08625-0426

RE: Request for Deviation from Construction Standards
Permit Numbers: P200900523, P200906623, P200900800, P200904372, P200900801, P200900524, P200900525, P200900522, P200904823, P200900528, P200904381

1.	Purpose:	Installation of Flute Multi-Zone Wells
2.	Facility:	Cornell Dubilier Superfund Site Hamilton Blvd & New Market Ave South Plainfield, New Jersey Middlesex County Lot 14, Block 282
3.	Owner:	USEPA 290 Broadway, 19th Floor New York, NY 10007
4.	Driller:	Advanced Drilling, Inc. 3 Colt Road Pittstown, NJ 08867 908-730-7060
5.	Construction:	Once the overburden is cased 10' into bedrock, the Water FLUTe system will be installed in a 6"hole
6.	Reason:	The system does not require a screen, casing or filter pack, The required annulus will not be met
7.	Method:	The hole will be drilled with 10" to install 6" steel casing 10' into competent bedrock, the hole below the casing will drilled with a 6" roller bit to various depths (250'-600'), once t the final depth the hole will be fitted with the FLUTe system
8.	Case Manager:	Peter Mananlo at UPEPA 212-637-4429
9.	Consultant:	Malcolm Pirnie, Inc. Jeff Frederick (201)797-7400 17-17 Route 208 North Fair Lawn, New Jersey 07401



MW-14D

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
[redacted]		2 ports		
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80	[redacted]			
81				
82		#1	5 feet	
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
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95				
96				
97				
98				
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100				
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102				
103				
104				
105				
106				
107				

MW-15S

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
[redacted]		2 ports		
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30	[redacted]			
31				
32				
33				
34				
35		#1	10 feet	
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
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55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70	[redacted]			
71				
72				
73				
74				
75		#2	10 feet	
76				
77				
78				
79				
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97				
98				
99				
100				

MW-15D

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
[redacted]		2 ports		
101				
102				
103				
104				
105				
106				
107				

[redacted]

#1 10 feet

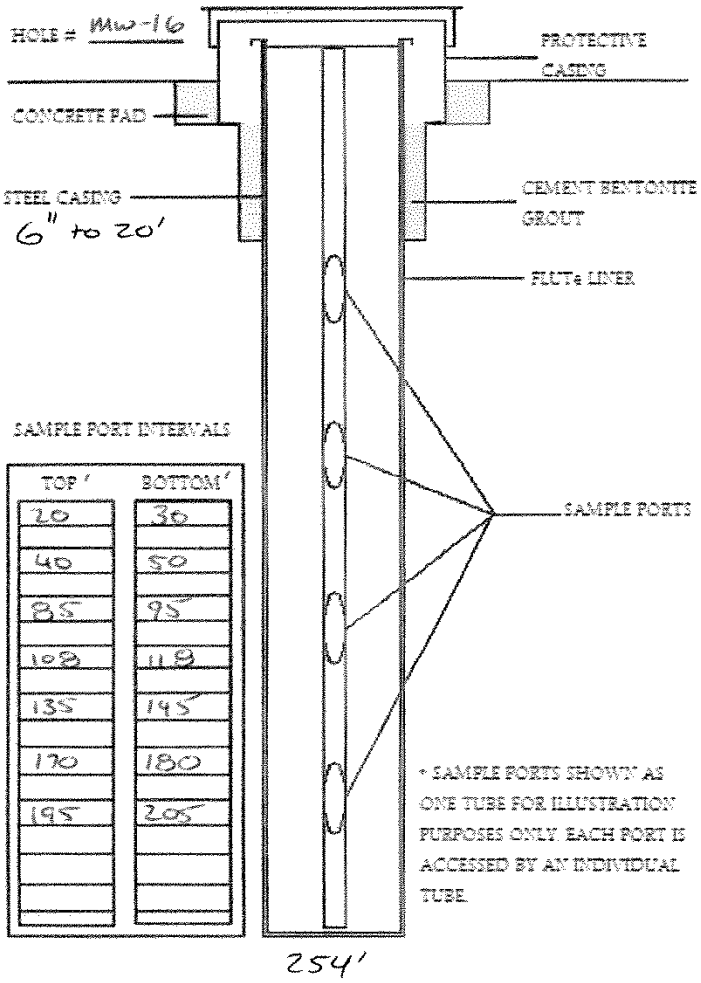
[redacted]

#2 10 feet

[redacted]

#2 30 feet

[redacted]



TOP'	BOTTOM'
20	30
40	50
85	95
108	118
135	145
170	180
195	205

DWR-133M
2/08

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

P2009 00524
Permit No

Mail To
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D E P

COORD # 25.34 .583

Owner USEPA
Address 290 Broadway, 19th Floor
New York, NY 10007

Driller Advanced Drilling Inc
Address 3 Colt Rd
Pittstown, NJ 08867

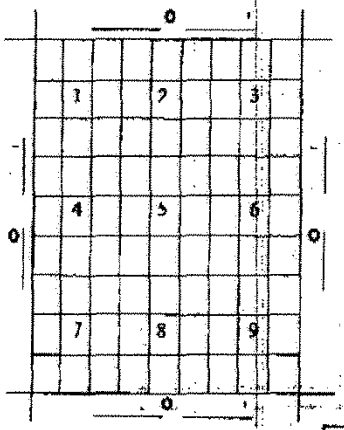
Name of Facility Former Cornell-Dubilier Electronics
Address Hamilton Blvd & Spicer Ave
South Plainfield, NJ 07080

Diameter of Well(s)	6 inches	Proposed Depth of Well(s)	250 Feet
# of Wells Applied for (max 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☑
Type of Well (see reverse)	monitoring	If Yes give pump capacity	cumulative GPM

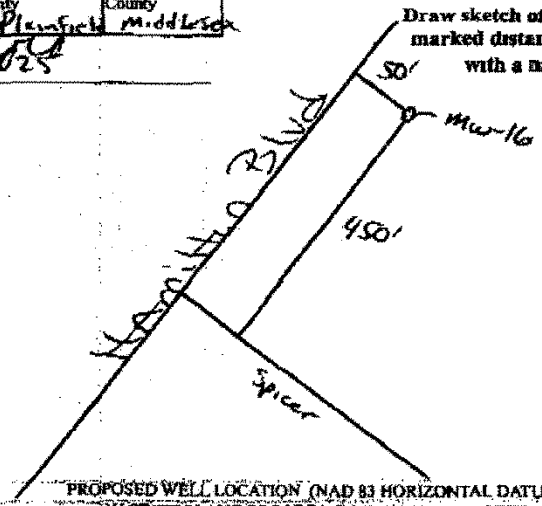
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
14a	282	South Plainfield	Middlesex

State Atlas Map No. B025



Draw sketch of well(s) nearest roads, buildings, etc with marked distances in feet Each well MUST be labeled with a name and/or number on the sketch



N

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING 635258 EASTING 516269

METHOD
☐ SURVEY
☑ DIGITAL IMAGE
☐ GPS

FOR MONITORING WELLS RECOVERY WELLS OR PIEZOMETERS THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED

☐ RCRA Site
☐ Underground Storage Tank Site
☐ Operational Ground Water Permit Site
☐ Pretreatment and Residuals Site
☐ Water and Hazardous Waste Enforcement Case
☐ Water Supply Aquifer Test Observation Well
☐ Other (explain)
☐ Spill Site
☐ ISRA Site
☑ CERCLA (Superfund) Site

CASE I D Number NSD 981557879

This Space for Approval Stamp

WELL PERMIT APPROVED
N J D E P
JAN 21 2009
BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR DEP USE ☐ Issuance of this permit is subject to the conditions attached (see next page) ☑ For monitoring purposes only
ATTACHED DEVIATION REQUEST IS HEREBY APPROVED. [illegible] 9/10/09

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT
In compliance with N.J.S.A. 58:4A-14 application is made for a permit to drill a well as described above.

Date 2-23-08 Signature of Driller [illegible] Registration No M1578
Signature of Property Owner Jeffrey Fredrick for USEPA

COPIES Water Systems & Well Permitting - White Health Dept - Yellow Owner - Blue Driller - White

R2-0016556

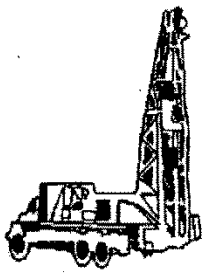
P200900524
25.34.583

ADVANCED DRILLING, INC.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NEW JERSEY 08625-0426

RE: Request for Deviation from Construction Standards
Permit Numbers: P200900523, P200906623, P200900800, P200904372, P200900801, P200900524, P200900525, P200900522, P200904823, P200900528, P200904381

1.	Purpose:	Installation of Flute Multi-Zone Wells
2.	Facility:	Cornell Dubilier Superfund Site Hamilton Blvd & New Market Ave South Plainfield, New Jersey Middlesex County Lot 14, Block 282
3.	Owner:	USEPA 290 Broadway, 19th Floor New York, NY 10007
4.	Driller:	Advanced Drilling, Inc. 3 Colt Road Pittstown, NJ 08867 908-730-7060
5.	Construction:	Once the overburden is cased 10' into bedrock, the Water FLUTe system will be installed in a 6"hole
6.	Reason:	The system does not require a screen, casing or filter pack, The required annulus will not be met
7.	Method:	The hole will be drilled with 10" to install 6" steel casing 10' into competent bedrock, the hole below the casing will drilled with a 6" roller bit to various depths (250'-600'), once t the final depth the hole will be fitted with the FLUTe system
8.	Case Manager:	Peter Mananio at UPEPA 212-637-4429
9.	Consultant:	Malcolm Pirnie, Inc. Jeff Frederick (201)797-7400 17-17 Route 208 North Fair Lawn, New Jersey 07401



P200900524
25.34.583

MW-16 Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
		7 ports		
20				
21				
22				
23				
24				
25		#1	10 feet	
26				
27				
28				
29				
30				
31				
32				
33				
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37				
38				
39				
40				
41				
42				
43				
44				
45		#2	10 feet	
46				
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86				
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89				
90		#3	10 feet	
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100				
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103				
104				
105				
106				
107				

MW-17 Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
		2 ports		
		Note: MW-17 adjacent to ERT-2. No Ports above 150 feet.		
20				
21				
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23				
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104				
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106				
107				

MW-18 Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
		2 ports		
		Note: MW-18 adjacent to ERT-5. No Ports above 150 feet.		
20				
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103				
104				
105				
106				
107				

25.34.583

#4 10 feet

#5 10 feet

#6 10 feet

#7 10 feet

#1 10 feet

#2 10 feet

#1 10 feet

#3 10 feet

P2009 00524

25.34.583

218
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221
222
223
224
225
226
227
228
229
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231
232
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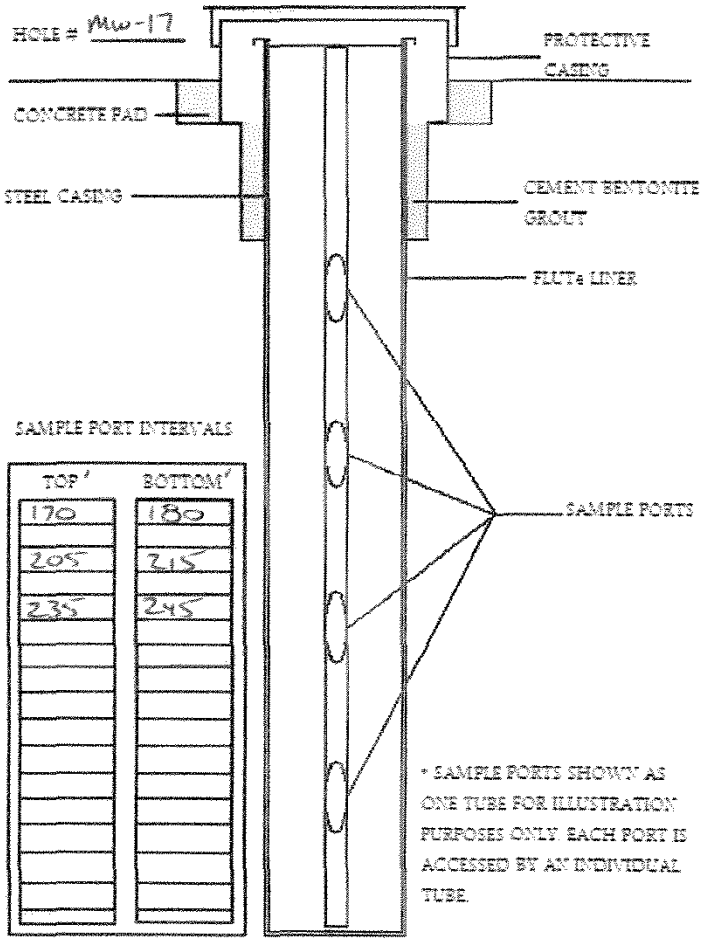
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240 #3 10 feet
241
242
243
244
245
246
247

318
319
320
321
322
323
324
325
326
327
328
329
330
331
332


HOLE # MW-17
PROTECTIVE CASING
CONCRETE PAD
STEEL CASING
CEMENT BENTONITE GROUT
FLUTe LINER
SAMPLE PORT INTERVALS
TOP'
BOTTOM'
170
180
205
215
235
245
SAMPLE PORTS
* SAMPLE PORTS SHOWN AS ONE TUBE FOR ILLUSTRATION PURPOSES ONLY. EACH PORT IS ACCESSED BY AN INDIVIDUAL TUBE.

DWR-133M
2/08

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

P2009W525
Permit No

Mail To
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D E P.

COORD # 25 .34 .583

Owner USEPA
Address 290 Broadway, 19th Floor
New York, NY 10007

Driller Advanced Drilling Inc
Address 3 Colt Rd
Pittstown, NJ 08867

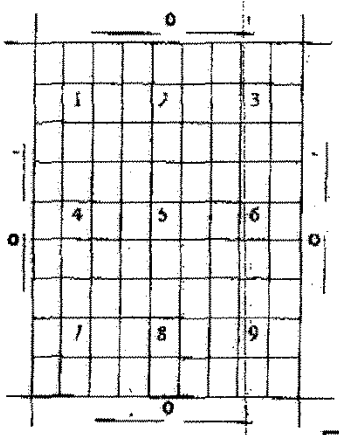
Name of Facility Community Police Office
Address 116 New Market Ave
South Plainfield, NJ 07080

Diameter of Well(s)	6 inches	Proposed Depth of Well(s)	250 Feet
# of Wells Applied for (max 10)	1	Well pumping equipment to be installed?	YES ☐ NO ☑
Type of Well (see reverse)	Monitoring	If Yes give pump capacity	cumulative GPM

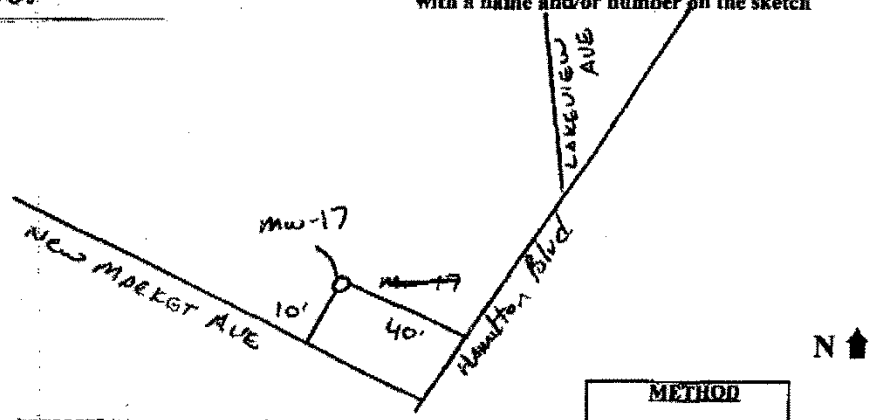
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
10	329	South Plainfield	Middlesex

State Atlas Map No. B10



Draw sketch of well(s) nearest roads, buildings, etc with marked distances in feet Each well MUST be labeled with a name and/or number on the sketch



PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING 634974 EASTING 515907

METHOD
☐ SURVEY
☑ DIGITAL IMAGE
☐ GPS

FOR MONITORING WELLS RECOVERY WELLS OR PIEZOMETERS THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☑ CERCLA (Superfund) Site

CASE I D Number
NJD 981557879

This Space for Approval Stamp

WELL PERMIT APPROVED
N J D E P
JAN 21 2009
BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR DEP USE ☐ Issuance of this permit is subject to the conditions attached (see next page) ☑ For monitoring purposes only
☑ ATTACHED DEVIATION REQUEST IS HEREBY APPROVED. [illegible] 9/10/09

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT
In compliance with N J S A 58 4A 14 application is made for a permit to drill a well as described above.

Date 12-23-08
Signature of Driller [illegible]
Registration No M1578
Signature of Property Owner [illegible] for USEPA

COPIES Water Systems & Well Permitting - White Health Dept - Yellow Owner - Blue Driller - White

R2-0016562

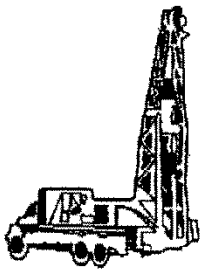
P200900525
25-34-583

ADVANCED DRILLING, INC.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NEW JERSEY 08625-0426

RE: Request for Deviation from Construction Standards
Permit Numbers: P200900523, P200906623, P200900800, P200904372, P200900801, P200900524, P200900525, P200900522, P200904823, P200900528, P200904381

1.	Purpose:	Installation of Flute Multi-Zone Wells
2.	Facility:	Cornell Dubilier Superfund Site Hamilton Blvd & New Market Ave South Plainfield, New Jersey Middlesex County Lot 14, Block 282
3.	Owner:	USEPA 290 Broadway, 19th Floor New York, NY 10007
4.	Driller:	Advanced Drilling, Inc. 3 Colt Road Pittstown, NJ 08867 908-730-7060
5.	Construction:	Once the overburden is cased 10' into bedrock, the Water FLUTe system will be installed in a 6"hole
6.	Reason:	The system does not require a screen, casing or filter pack, The required annulus will not be met
7.	Method:	The hole will be drilled with 10" to install 6" steel casing 10' into competent bedrock, the hole below the casing will drilled with a 6" roller bit to various depths (250'-600'), once t the final depth the hole will be fitted with the FLUTe system
8.	Case Manager:	Peter Mananio at UPEPA 212-637-4429
9.	Consultant:	Malcolm Pirnie, Inc. Jeff Frederick (201)797-7400 17-17 Route 208 North Fair Lawn, New Jersey 07401



R2-0016564

P200900525
25.34.583

MW-16

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
		7 ports		
20	[redacted]			
21				
22				
23				
24				
25		#1	10 feet	
26				
27				
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32				
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37				
38				
39				
40	[redacted]			
41				
42				
43				
44				
45		#2	10 feet	
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84				
85	[redacted]			
86				
87				
88				
89				
90		#3	10 feet	
91				
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105				
106				
107				

MW-17

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
		3 ports		
20	[redacted]			
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
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33				
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Note:
MW-17 adjacent to SRT-2.
No Ports above 150 feet.

MW-18

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
		2 ports		
20	[redacted]			
21				
22				
23				
24				
25				
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27				
28				
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Note:
MW-18 adjacent to SRT-5.
No Ports above 150 feet.

R2-0016565

P200900525
25.34.583

#4 10 feet

#5 10 feet

#6 10 feet

#7 10 feet

#1 10 feet

#2 10 feet

#3 10 feet

#2 10 feet

R2-0016566

P2009005 25

25·34·583

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234
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236
237
238
239
240
241
242
243
244
245
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247

[redacted]

#3 10 flat

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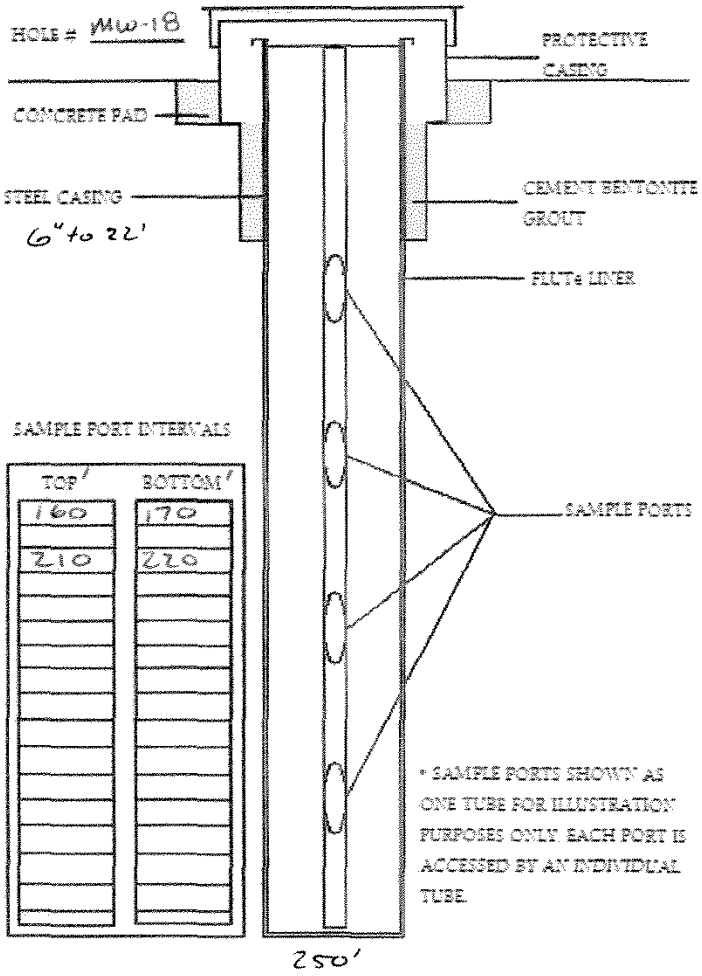
232

[redacted]


HOLE # MW-18
PROTECTIVE CASING
CONCRETE PAD
STEEL CASING
6" to 22'
CEMENT BENTONITE GROUT
FLUTe LINER
SAMPLE PORT INTERVALS
TOP'
BOTTOM'
160
170
210
220
SAMPLE PORTS
* SAMPLE PORTS SHOWN AS ONE TUBE FOR ILLUSTRATION PURPOSES ONLY. EACH PORT IS ACCESSED BY AN INDIVIDUAL TUBE.
250'

DWR-133M
2/08

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

P200900522
Permit No _____

Mail To
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D E P.

COORD # 25 . 34 . 581

Owner US EPA
Address 290 Broadway, 19th Floor
New York, NY 10007

Driller Advanced Drilling Inc
Address 3 Colt Rd
Pittstown, NJ 08867

Name of Facility Pitt St Park
Address Pulaski St & Amboy Ave
South Plainfield, NJ 07080

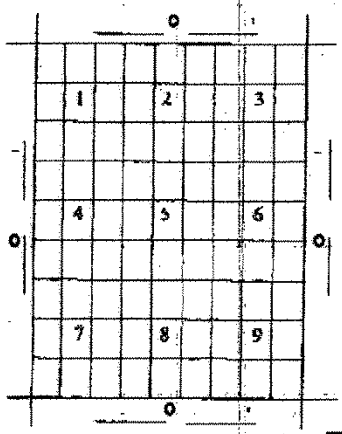
Diameter of Well(s)	6 Inches	Proposed Depth of Well(s)	250 Feet
# of Wells Applied for (max 10)	1	Will pumping equipment be installed?	YES ☐ NO ☐
Type of Well (see reverse)	monitoring	If Yes give pump capacity	cumulative GPM

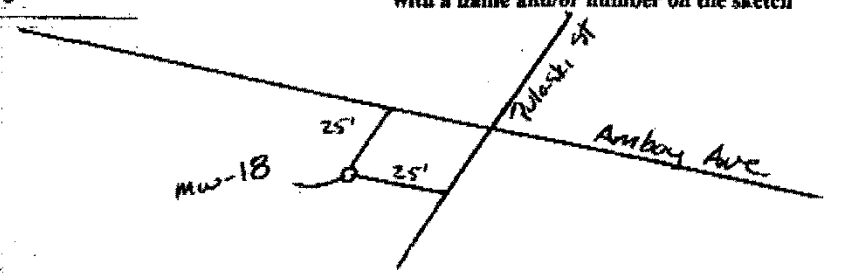
LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
46.01	315	South Plainfield	Middlesex

State Atlas Map No. B7-025

Draw sketch of well(s) nearest roads,buildings, etc with marked distances in feet Each well MUST be labeled with a name and/or number on the sketch





N ↑

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING 634652 EASTING 514467

METHOD
☐ SURVEY
☒ DIGITAL IMAGE
☐ GPS

FOR MONITORING WELLS RECOVERY WELLS OR PIEZOMETERS THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED

☐ RCRA Site
☐ Underground Storage Tank Site
☐ Operational Ground Water Permit Site
☐ Pretreatment and Residuals Site
☐ Water and Hazardous Waste Enforcement Case
☐ Water Supply Aquifer Test Observation Well
☐ Other (explain)
☐ Spill Site
☐ ISRA Site
☒ CERCLA (Superfund) Site

CASE I D Number
NJD 981557879

This Space for Approval Stamp

WELL PERMIT APPROVED
N J D E P
JAN 21 2009
BUREAU OF WATER SYSTEMS
& WELL PERMITTING

FOR D E P USE ☐ Issuance of this permit is subject to the conditions attached (see next page) ☒ For monitoring purposes only
ATTACHED DEVIATION REQUEST IS HEREBY APPROVED. [illegible] 9/10/09

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT
In compliance with N J S A 58 4A 14 application is made for a permit to drill a well as described above.

Date 12-23-08 Signature of Driller [illegible] Registration No M1578
Signature of Property Owner Jeffrey Bredrup for USEPA

COPIES Water Systems & Well Permitting - White Health Dept - Yellow Owner - Blue Driller - White

R2-0016568

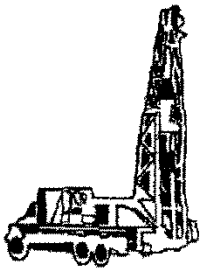
P200900522
25-34-581

ADVANCED DRILLING, INC.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NEW JERSEY 08625-0426

RE: Request for Deviation from Construction Standards
Permit Numbers: P200900523, P200906623, P200900800, P200904372, P200900801, P200900524, P200900525, P200900522, P200904823, P200900528, P200904381

1.	Purpose:	Installation of Flute Multi-Zone Wells
2.	Facility:	Cornell Dubilier Superfund Site Hamilton Blvd & New Market Ave South Plainfield, New Jersey Middlesex County Lot 14, Block 282
3.	Owner:	USEPA 290 Broadway, 19th Floor New York, NY 10007
4.	Driller:	Advanced Drilling, Inc. 3 Colt Road Pittstown, NJ 08867 908-730-7060
5:	Construction:	Once the overburden is cased 10' into bedrock, the Water FLUTe system will be installed in a 6"hole
6:	Reason:	The system does not require a screen, casing or filter pack, The required annulus will not be met
7:	Method:	The hole will be drilled with 10" to install 6" steel casing 10' into competent bedrock, the hole below the casing will drilled with a 6" roller bit to various depths (250'-600'), once t the final depth the hole will be fitted with the FLUTe system
8:	Case Manager:	Peter Mananio at UPEPA 212-637-4429
9:	Consultant:	Malcolm Pirnie, Inc. Jeff Frederick (201)797-7400 17-17 Route 208 North Fair Lawn, New Jersey 07401



R2-0016570

P200900522

25-34-581

MW-16

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]				
20	[redacted]			
21				
22				
23				
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25		#1	10 feet	
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45		#2	10 feet	
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90		#3	10 feet	
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MW-17

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]				
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Note:
MW-17 adjacent to ERT-2.
No Ports above 150 feet.

MW-18

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]				
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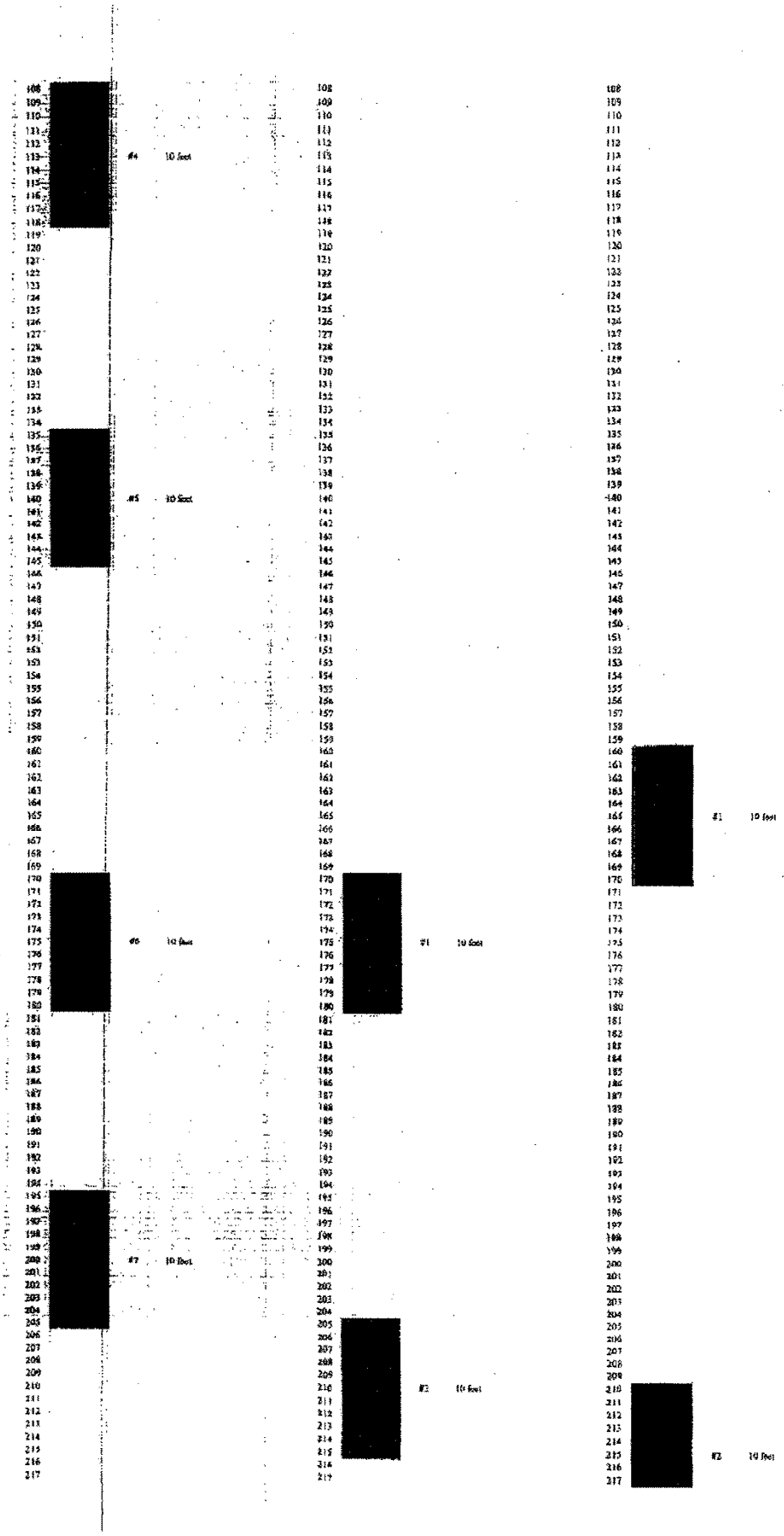
Note:
MW-18 adjacent to ERT-3.
No Ports above 150 feet.

R2-0016571

P100900522

2534-581



R2-00165572

P200900522

25·34·581

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#3 1D Dual

218 [redacted]
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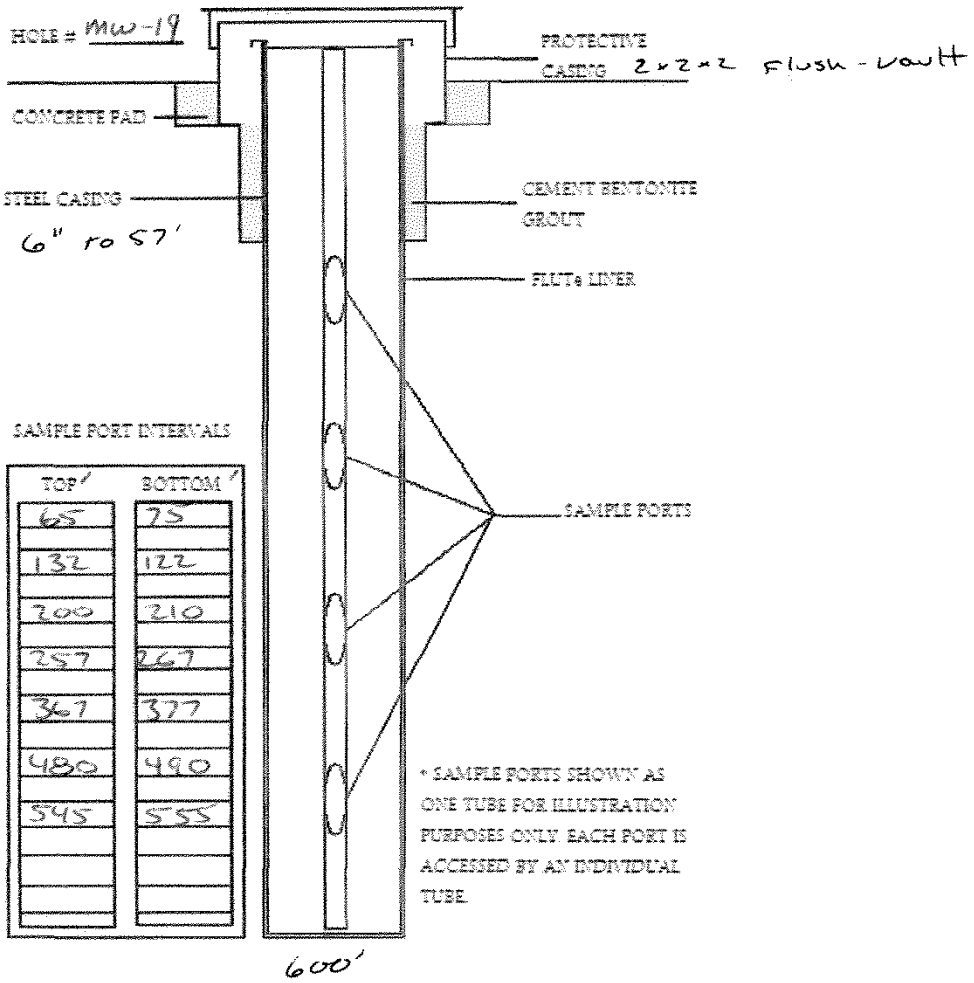

HOLE # MW-19
PROTECTIVE CASING 2x2x2 flush-vault
CONCRETE PAD
STEEL CASING
6" to 57'
CEMENT BENTONITE GROUT
FLUTe LINER
SAMPLE PORT INTERVALS
TOP' BOTTOM'
65 75
132 122
200 210
257 267
367 377
480 490
545 555
SAMPLE PORTS
* SAMPLE PORTS SHOWN AS ONE TUBE FOR ILLUSTRATION PURPOSES ONLY. EACH PORT IS ACCESSED BY AN INDIVIDUAL TUBE.
600'

DWR-133M
1/09

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Permit No. P20090 4823

COORD #: 25.34.552

Owner US EPA
Address 290 Broadway 19th Floor
New York, NY 10007
Name of Facility Borough of South Plainfield ~~Fairlamb Ave R.O.W~~
Address Fairlamb Ave & Lane Ave
South Plainfield, NJ 07080

Driller Advanced Drilling Inc
Address 3 Colt Rd
Pittstown, NJ 08867

Diameter of Well(s)	6 Inches	Proposed Depth of Well(s)	250 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☑
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

LOCATION OF WELL(S)

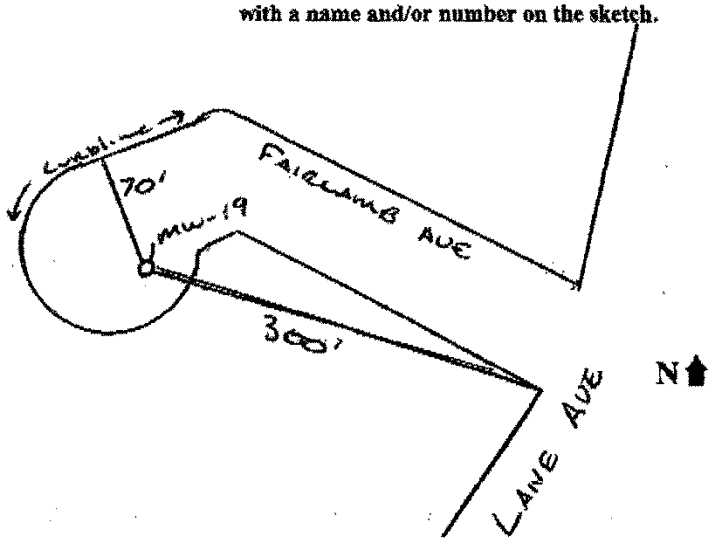
Lot #	Block #	Municipality	County
ROW	ROW	South Plainfield	Middlesex

LOCAL ID	NORTHING (Y)	EASTING (X)
~~[illegible]~~		
MW-19	638520	515695
		515695

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
☐ SURVEY ☑ DIGITAL IMAGE ☐ GPS

Draw sketch of well(s) nearest roads,buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☑ CERCLA (Superfund) Site

CASE I.D. Number
NJD 981557879

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.
APR 29 2009
BUREAU OF WATER SYSTEMS
& WELL PERMITTING

FOR D.E.P. USE ☐ Issuance of this permit is subject to the conditions attached. (see next page) ☑ For monitoring purposes only.
ATTACHED JUSTIFICATION REQUEST IS HEREBY APPROVED. [illegible] 9/10/09

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 4-16-09 Signature of Driller [illegible] Registration No. M1578
Signature of Property Owner [illegible] for USEPA

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

R2-0016574

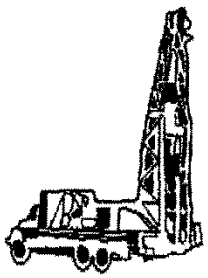
P200904825
25:34:552

ADVANCED DRILLING, INC.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NEW JERSEY 08625-0426

RE: Request for Deviation from Construction Standards
Permit Numbers: P200900523, P200906623, P200900800, P200904372, P200900801, P200900524, P200900525, P200900522, P200904823, P200900528, P200904381

1.	Purpose:	Installation of Flute Multi-Zone Wells
2.	Facility:	Cornell Dubilier Superfund Site Hamilton Blvd & New Market Ave South Plainfield, New Jersey Middlesex County Lot 14, Block 282
3.	Owner:	USEPA 290 Broadway, 19th Floor New York, NY 10007
4:	Driller:	Advanced Drilling, Inc. 3 Colt Road Pittstown, NJ 08867 908-730-7060
5:	Construction:	Once the overburden is cased 10' into bedrock, the Water FLUTe system will be installed in a 6"hole
6:	Reason:	The system does not require a screen, casing or filter pack, The required annulus will not be met
7:	Method:	The hole will be drilled with 10" to install 6" steel casing 10' into competent bedrock, the hole below the casing will drilled with a 6" roller bit to various depths (250'-600'), once t the final depth the hole will be fitted with the FLUTe system
8:	Case Manager:	Peter Mananio at UPEPA 212-637-4429
9:	Consultant:	Malcolm Pirnie, Inc. Jeff Frederick (201)797-7400 17-17 Route 208 North Fair Lawn, New Jersey 07401



P200904823
25.34.552

MW-19

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]		7 ports		
56				
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64				
65	[redacted]			
66				
67				
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69				
70		#1	10 feet	
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MW-20

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (µg/L)
[redacted]		8 ports		
25				
26				
27				
28				
29				
30		#1	10 feet	
31				
32				
33				
34				
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84				
85	[redacted]			
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89				
90		#2	10 feet	
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P200904823
25.34.552

#2 10 feet

#3 10 feet

#2 10 feet

#4 10 feet

#5 10 feet

P200904823
25-34-552

[redacted]

#4 10 feet

[redacted]

#6 10 feet

[redacted]

#7 10 feet

P200904823
25-34-552

[redacted] 10 feet

[redacted] 10 feet

P2009048 23
25-34-55

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479
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481
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483
484
485 [redacted] #6 10 feet
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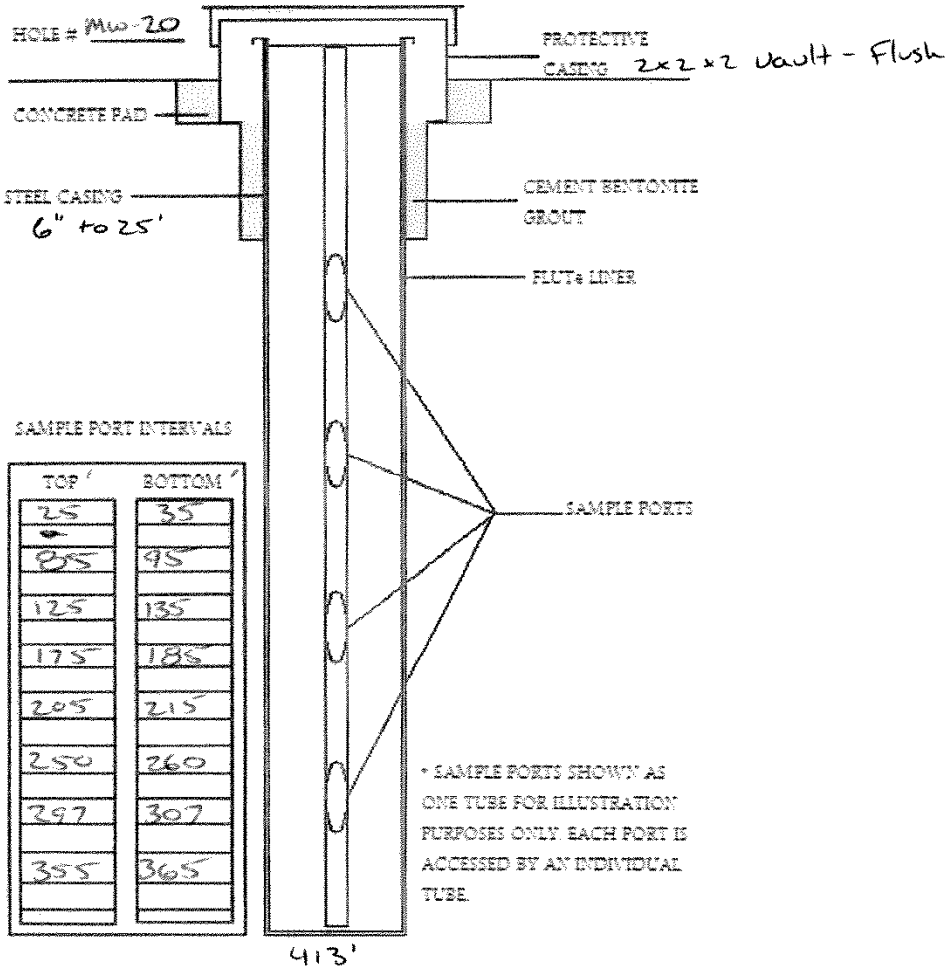
B 200904823
25 34-552

[redacted]


HOLE # MW-20
PROTECTIVE CASING 2x2x2 Vault - Flush
CONCRETE PAD
STEEL CASING
6" to 25'
CEMENT BENTONITE GROUT
FLUTe LINER
SAMPLE PORT INTERVALS
TOP ' BOTTOM '
25 35
85 95
125 135
175 185
205 215
250 260
297 307
355 365
SAMPLE PORTS
* SAMPLE PORTS SHOWN AS ONE TUBE FOR ILLUSTRATION PURPOSES ONLY. EACH PORT IS ACCESSED BY AN INDIVIDUAL TUBE.
413'

DWR-133M
2/08

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

P2009W0528
Permit No

Mail To
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D E P

COORD # 25 . 34 . 556

Owner USEPA
Address 290 Broadway, 19th Floor
New York, NY 10007
Name of Facility S. Plainfield Police & Fire Annex
Address MAPLE AVE + PLAINFIELD AVE

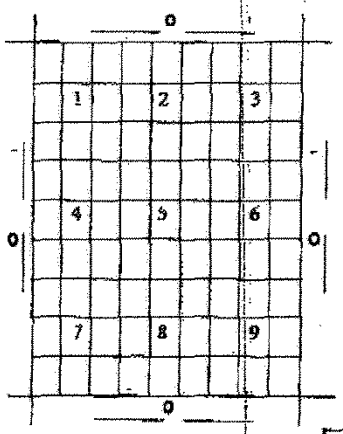
Driller Advanced Drilling Inc
Address 3 Colt Rd
Pittstown, NJ 08867

Diameter of Well(s)	6 Inches	Proposed Depth of Well(s)	250 Feet
# of Wells Applied for (max. 10)	1	Will pumps, equipment be utilized?	YES ☐ NO ☑
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

LOCATION OF WELL(S)

Lot #	Block #	Municipality	County
10	260	South Plainfield	Middlesex

State Atlas Map No. 25



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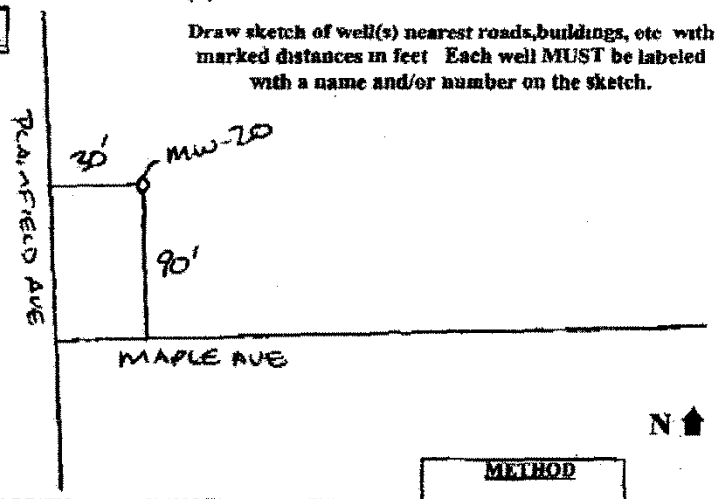

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

NORTHING 637132 EASTING 516083

METHOD
☐ SURVEY
☑ DIGITAL IMAGE
☐ GPS

FOR MONITORING WELLS RECOVERY WELLS OR PIEZOMETERS THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED

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- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☑ CERCLA (Superfund) Site

CASE I D Number NSD 981557879

This Space for Approval Stamp

WELL PERMIT APPROVED
N J D E P
JAN 21 2009
BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR DEP USE ☐ Issuance of this permit is subject to the conditions attached (see next page) ☒ For monitoring purposes only
Attorney's Deviation Request is hereby approved. 1/21/09

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT
In compliance with N J S A 58 4A 14 application is made for a permit to drill a well as described above.

Date 12-23-08 Signature of Driller [signature] Registration No M1578
Signature of Property Owner [signature] for USEPA

COPIES Water Systems & Well Permitting - White Health Dept - Yellow Owner - Blue Driller - White

R2-0016583

P200900528
25-34-556

ADVANCED DRILLING, INC.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NEW JERSEY 08625-0426

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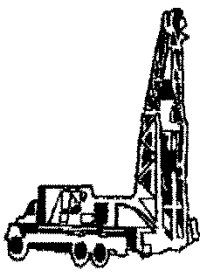
9:	Consultant:	Malcolm Pirnie, Inc. Jeff Frederick (201)797-7400 17-17 Route 208 North Fair Lawn, New Jersey 07401



P 200900528
25-34-556

MW-19

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
[redacted]		7 ports		
56				
57				
58				
59				
60				
61				
62				
63				
64				
65	[redacted]			
66				
67				
68				
69				
70		#1	10 feet	
71				
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MW-20

Depth (bgs)	MPI PORT	Port Number	Port Length	TCE (ug/L)
[redacted]		8 ports		
25	[redacted]			
26				
27				
28				
29				
30		#1	10 feet	
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P200900528
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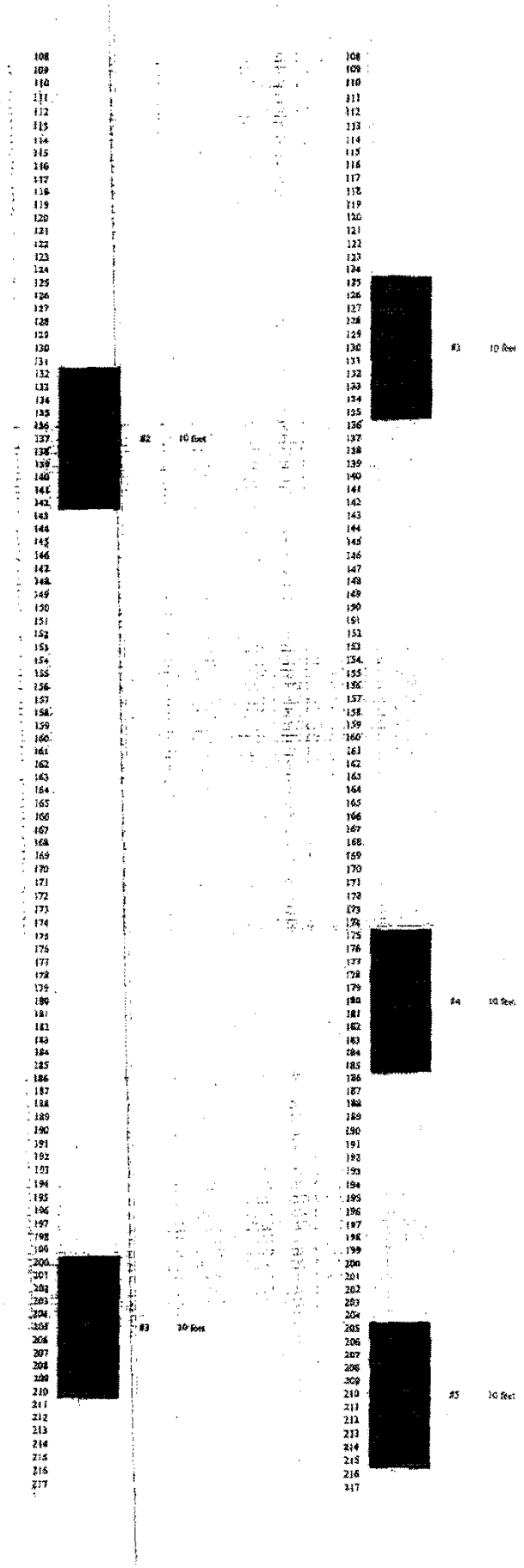

P200900524
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#4 10 feet

#5 10 feet

#7 10 feet

P200900524
25-34-556

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#5 10 feet

[redacted]

#8 10 feet

P200900528
25.34.556

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R200900528

25.34.556

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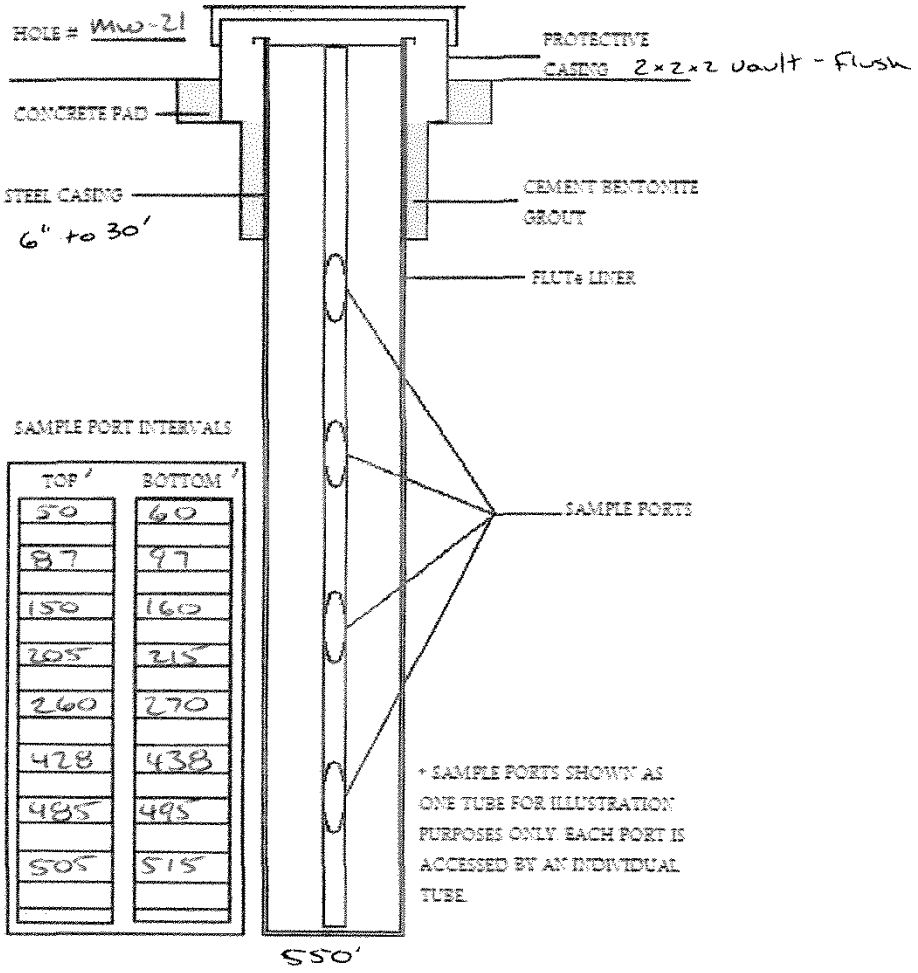

HOLE # MW-21
PROTECTIVE CASING 2×2×2 vault - flush
CONCRETE PAD
STEEL CASING
6" to 30'
CEMENT BENTONITE GROUT
FLUTe LINER
SAMPLE PORT INTERVALS
TOP' BOTTOM'
50 60
87 97
150 160
205 215
260 270
428 438
485 495
505 515
SAMPLE PORTS
* SAMPLE PORTS SHOWN AS ONE TUBE FOR ILLUSTRATION PURPOSES ONLY. EACH PORT IS ACCESSED BY AN INDIVIDUAL TUBE.
550'

DWR-133M
1/09

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

Permit No. P2009043 81

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

COORD #: 25 . 34 . 555

Owner US EPA
Address 290 Broadway 19th Floor
New York, NY 10007

Driller Advanced Drilling Inc
Address 3 Coh Rd
Pittstown, NJ 08867

Name of Facility Borough of South Plainfield R.O.W Louden AVE
Address Louden Ave + Willow Ave
South Plainfield, NJ 07080

Diameter of Well(s)	6 inches	Proposed Depth of Well(s)	250 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☑
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

LOCATION OF WELL(S)

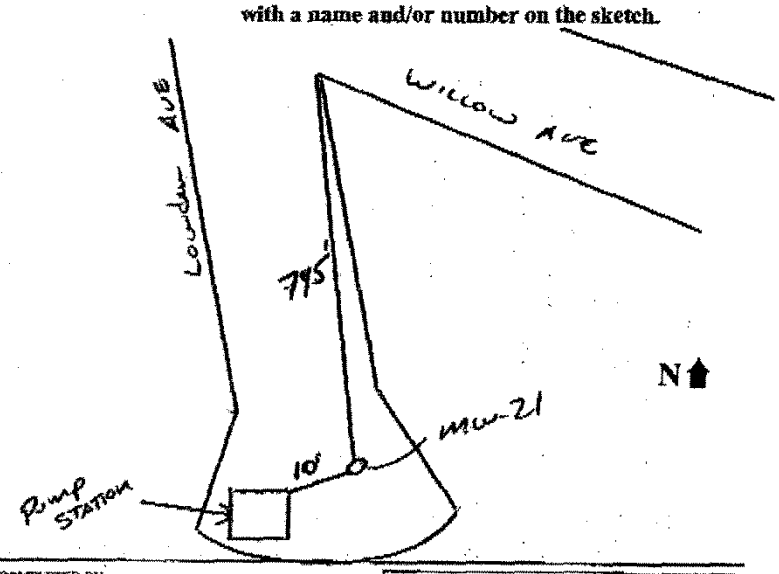
Lot #	Block #	Municipality	County
Row	Row	South Plainfield	Middlesex

LOCAL ID	NORTHING (Y)	EASTING (X)
MW-21	637037	514941

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
☐ SURVEY ☑ DIGITAL IMAGE ☐ GPS

Draw sketch of well(s) nearest roads, buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☑ CERCLA (Superfund) Site

CASE I.D. Number
NJD 981557879

This Space for Approval Stamp

WELL PERMIT APPROVED
N.J. D.E.P.
APR 22 2009
BUREAU OF WATER SYSTEMS & WELL PERMITTING

FOR D.E.P. USE
☐ Issuance of this permit is subject to the conditions attached. (see next page)
☑ For monitoring purposes only
☑ ATTACHED DEVIATION IS HEREBY APPROVED. [signature] 9/10/09

SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 4-7-09
Signature of Driller [signature]
Registration No. M1578
Signature of Property Owner [signature] for US EPA

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

R2-0016592

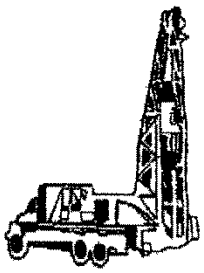
P200904381
25.34.555

ADVANCED DRILLING, INC.

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER ALLOCATION
PO BOX 426
TRENTON, NEW JERSEY 08625-0426

RE: Request for Deviation from Construction Standards
Permit Numbers: P200900523, P200906623, P200900800, P200904372, P200900801, P200900524, P200900525, P200900522, P200904823, P200900528, P200904381

1.	Purpose:	Installation of Flute Multi-Zone Wells
2.	Facility:	Cornell Dubilier Superfund Site Hamilton Blvd & New Market Ave South Plainfield, New Jersey Middlesex County Lot 14, Block 282
3.	Owner:	USEPA 290 Broadway, 19th Floor New York, NY 10007
4:	Driller:	Advanced Drilling, Inc. 3 Colt Road Pittstown, NJ 08867 908-730-7060
5:	Construction:	Once the overburden is cased 10' into bedrock, the Water FLUTe system will be installed in a 6"hole
6:	Reason:	The system does not require a screen, casing or filter pack, The required annulus will not be met
7:	Method:	The hole will be drilled with 10" to install 6" steel casing 10' into competent bedrock, the hole below the casing will drilled with a 6" roller bit to various depths (250'-600'), once t the final depth the hole will be fitted with the FLUTe system
8:	Case Manager:	Peter Mananio at UPEPA 212-637-4429
9:	Consultant:	Malcolm Pirnie, Inc. Jeff Frederick (201)797-7400 17-17 Route 208 North Fair Lawn, New Jersey 07401



P200904381

25-34-555

MW-21

Depth (bgs)	MPI PORT	Port Number	Port Length
		8 ports	
33			
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55		#1	10 feet
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92		#2	10 feet
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MW-31

Depth (bgs)	MPI PORT	Port Number	Port Length
		4 ports	
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50		#1	10 feet
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106			
107			

ERT-7

Depth (bgs)	MPI PORT	Port Number	Port Length
		5 ports	
24			
25			
26			
27			
28			
29			
30		#1	10 feet
31			
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33			
34			
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49			
50		#2	10 feet
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70		#3	10 feet
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105		#4	10 feet
106			
107			

P2009 04381
25.34.555

#2 10 feet

#3 20 feet

#4 10 feet

#5 10 feet

#5 10 feet

P200904381
25-34-555

[redacted]

#5 10.feet

[redacted]

#4 10.feet

P200904381
25.34.555

10 feet

P200904381
25.34.555

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490 #7 10 feet
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510 #8 10 feet
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P200904381
25:34.555

DWR-133M
1/09

Mail To:
NJDEP
BUREAU OF WATER SYSTEMS
AND WELL PERMITTING
PO BOX 426
TRENTON, NJ 08625-0426
email: wellpermitting@dep.state.nj.us

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
TRENTON, NJ

MONITORING WELL PERMIT

VALID ONLY AFTER APPROVAL BY THE D.E.P.

Permit No. P2-0016600

COORD #: 25 • 34 • 564

Owner USEPA

Address 290 Broadway 19th Floor
New York, NY 10007

Name of Facility Borough of South Plainfield Leonard Ave L.O.W.

Address Leonard Ave & Randolph Ave
South Plainfield, NJ

Driller Advanced Drilling Inc

Address 3 Colt Rd
Piscataway NJ 08854

Diameter of Well(s)	6 Inches	Proposed Depth of Well(s)	250 Feet
# of Wells Applied for (max. 10)	1	Will pumping equipment be utilized?	YES ☐ NO ☑
Type of Well (see reverse)	Monitoring	If Yes, give pump capacity	cumulative GPM

LOCATION OF WELL(S)

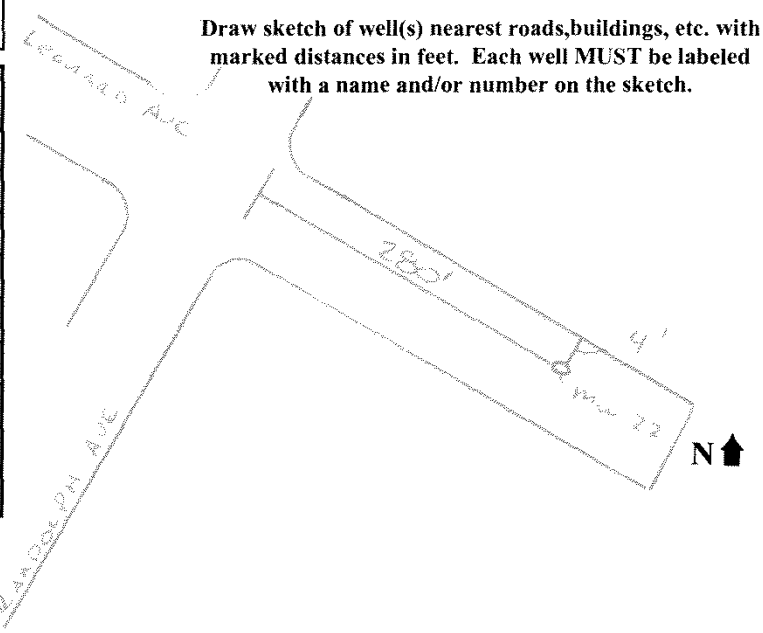
Lot #	Block #	Municipality	County
20	20	South Plainfield	Middlesex

LOCAL ID	NORTHING (Y)	EASTING (X)
MW-22	636949	517630

PROPOSED WELL LOCATION (NAD 83 HORIZONTAL DATUM)
NJ STATE PLANE COORDINATE IN US SURVEY FEET

METHOD
☐ **SURVEY** ☑ **DIGITAL IMAGE** ☐ **GPS**

Draw sketch of well(s) nearest roads,buildings, etc. with marked distances in feet. Each well MUST be labeled with a name and/or number on the sketch.



FOR MONITORING WELLS, RECOVERY WELLS, OR PIEZOMETERS, THE FOLLOWING MUST BE COMPLETED BY THE APPLICANT. PLEASE INDICATE WHY THE WELLS ARE BEING INSTALLED:

- ☐ RCRA Site
- ☐ Underground Storage Tank Site
- ☐ Operational Ground Water Permit Site
- ☐ Pretreatment and Residuals Site
- ☐ Water and Hazardous Waste Enforcement Case
- ☐ Water Supply Aquifer Test Observation Well
- ☐ Other (explain)
- ☐ Spill Site
- ☐ ISRA Site
- ☑ CERCLA (Superfund) Site

CASE I.D. Number
NJD 981557879

This Space for Approval Stamp
WELL PERMIT APPROVED
N.J.D.E.P.
APR 29 2009
BUREAU OF WATER SYSTEMS

FOR D.E.P. USE
☐ Issuance of this permit is subject to the conditions attached. (see next page)
☐ For monitoring purposes only
☐ [illegible]

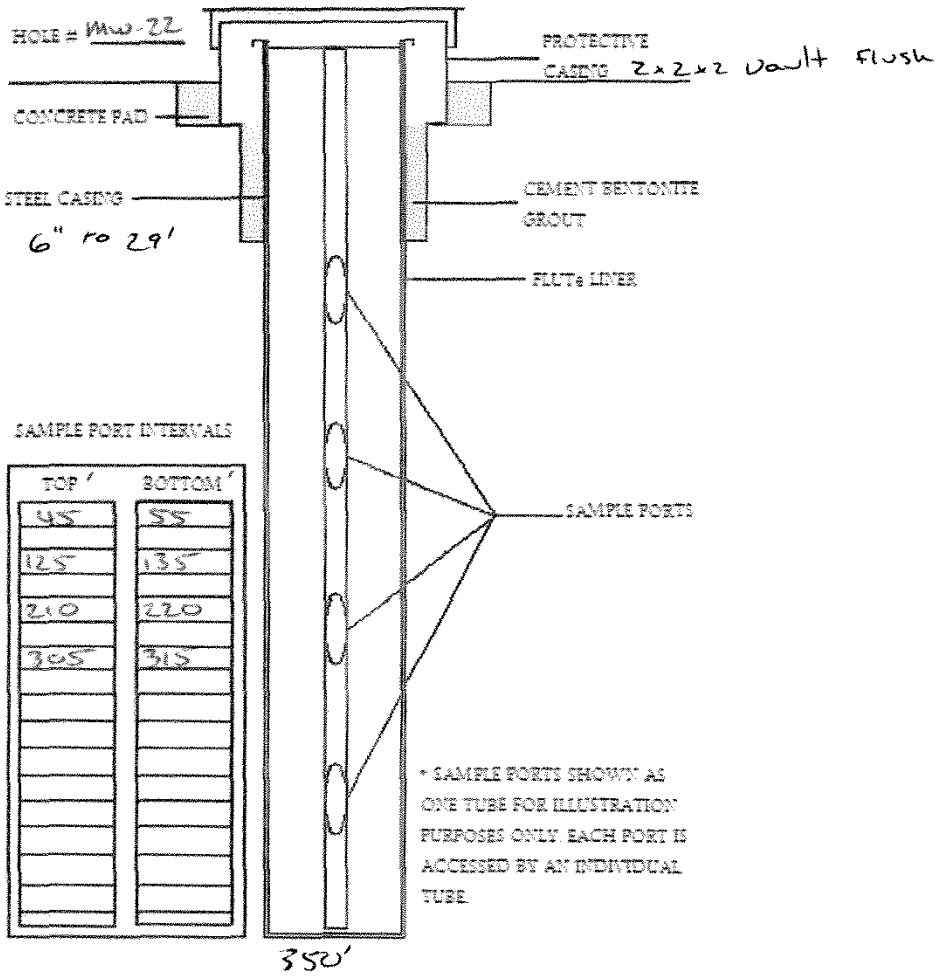
SEE REVERSE SIDE FOR IMPORTANT PROVISIONS PERTAINING TO THIS PERMIT.
In compliance with N.J.S.A.58:4A-14, application is made for a permit to drill a well as described above.

Date 4-16-09 Signature of Driller [signature] Registration No. M578

Signature of Property Owner [signature]

COPIES: Water Systems & Well Permitting - White Health Dept. - Yellow Owner - Blue Driller - White

R2-0016600


HOLE # MW-22
PROTECTIVE CASING 2x2x2 Vault flush
CONCRETE PAD
STEEL CASING
6" to 29'
CEMENT BENTONITE GROUT
FLUTe LINER
SAMPLE PORT INTERVALS
TOP'
BOTTOM'
45
55
125
135
210
220
305
315
SAMPLE PORTS
* SAMPLE PORTS SHOWN AS ONE TUBE FOR ILLUSTRATION PURPOSES ONLY. EACH PORT IS ACCESSED BY AN INDIVIDUAL TUBE.
350'

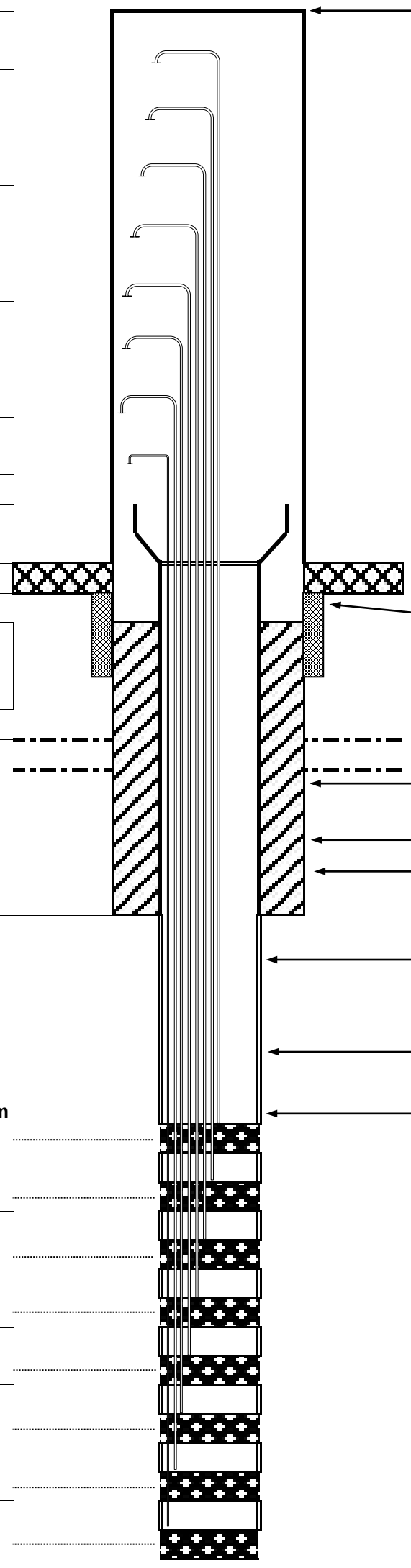
APPENDIX C

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well ERT-1
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Air Rotary Tricone	**Development Method**: Air Lifting		**Subcontractor:** Summit Drilling Co.
DATES:	**Drilling/Installation:**	1/17/2008 - 1/17/2008	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	1/17/2008 - 1/24/2008	**Type: STICKUP - VARIABLE**
	Water FLUTe™ Installation Date:	6/12/2008	**PVC Elevation (ft):** 72.84

Item	Depth Below PVC (ft)	Elevation (ft msl)
Stickup	-2.99	73.46
Top of Port 1 Tube	-0.18	73.02
Top of Port 2 Tube	-0.19	73.03
Top of Port 3 Tube	-0.18	73.02
Top of Port 4 Tube	-0.18	73.02
Top of Port 5 Tube	-0.19	73.03
Top of Port 6 Tube	-0.17	73.01
Top of Port 7 Tube	-0.19	73.03
Top of Port 8 Tube	-0.18	73.02
Top of PVC Riser	0.00	72.84
Recommended Liner Water Level	1.63	71.21
Grade	2.37	70.47

	Depth Below Grade (ft)	Elevation (ft msl)
Base of Overburden	3.0	67.47
Base of Weathered Bedrock	10.0	60.47
Top of Open Hole with Water FLUTe™ Liner	25.0	45.47

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	24	29	46	99
2	33	43	37	113
3	46	56	24	126
4	59	64	11	134
5	67	77	3	147
6	100	105	-30	175
7	112	117	-42	187
8	135	140	-65	210
Total Depth	150		-80	



Description

Stickup Type:	Steel Casing Cover	
Stickup Diameter:	6	(in.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Borehole Diameter:	10	(in.)
Casing ID:	6 (in.)	
Grout Type:	Cement-bentonite	
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	125.0	(ft.)
Borehole Diameter:	6	(in.)

Notes:

T Transducer

R2-0016603

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well ERT-2
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Air Rotary Tricone	**Development Method**: Air Lifting		**Subcontractor:** Summit Drilling Co.
DATES:	**Drilling/Installation:**	1/7/2008 - 1/10/2008	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	1/10/2008 - 1/16/2008	**Type: FLUSHMOUNT - VARIABLE**
	Water FLUTe™ Installation Dates:	6/7/2008	**GS Elevation (ft):** 80.99

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.00	80.99
Top of Port 1 Tube	0.43	80.56
Top of Port 2 Tube	0.42	80.57
Top of Port 3 Tube	0.43	80.56
Top of Port 4 Tube	0.44	80.55
Top of Port 5 Tube	0.48	80.51
Top of Port 6 Tube	0.44	80.55
Top of Port 7 Tube	0.43	80.56
Top of PVC Riser	0.63	80.36
Base of Overburden	3.0	77.5
Recommended Liner Water Level	9.66	71.33
Base of Weathered Bedrock	10.0	70.55
Top of Open Hole with Water FLUTe™ Liner	25.0	55.99

Description

Vault Dimensions: 2 x 2 (ft.)

Surface Seal Type: Concrete

Casing Type: Steel

Casing ID: 6 (in.)

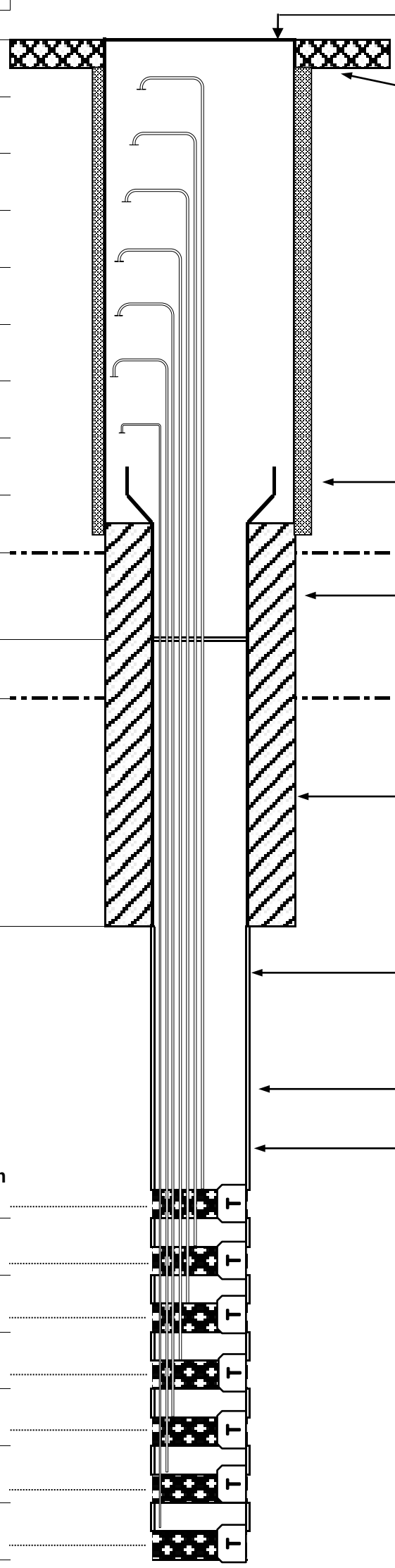
Grout Type: Cement-bentonite

Borehole Diameter: 10 (in.)

Water FLUTe™ Diameter: 6 (in.)

Water FLUTe™ Length: 125.0 (ft.)

Borehole Diameter: 6 (in.)



Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	24	29	57	52
2	33	43	48	38
3	46	56	35	25
4	59	64	22	17
5	67	77	14	4
6	100	105	-19	-24
7	112	117	-31	-36
Total Depth	150		-69	

T Transducer

Notes:

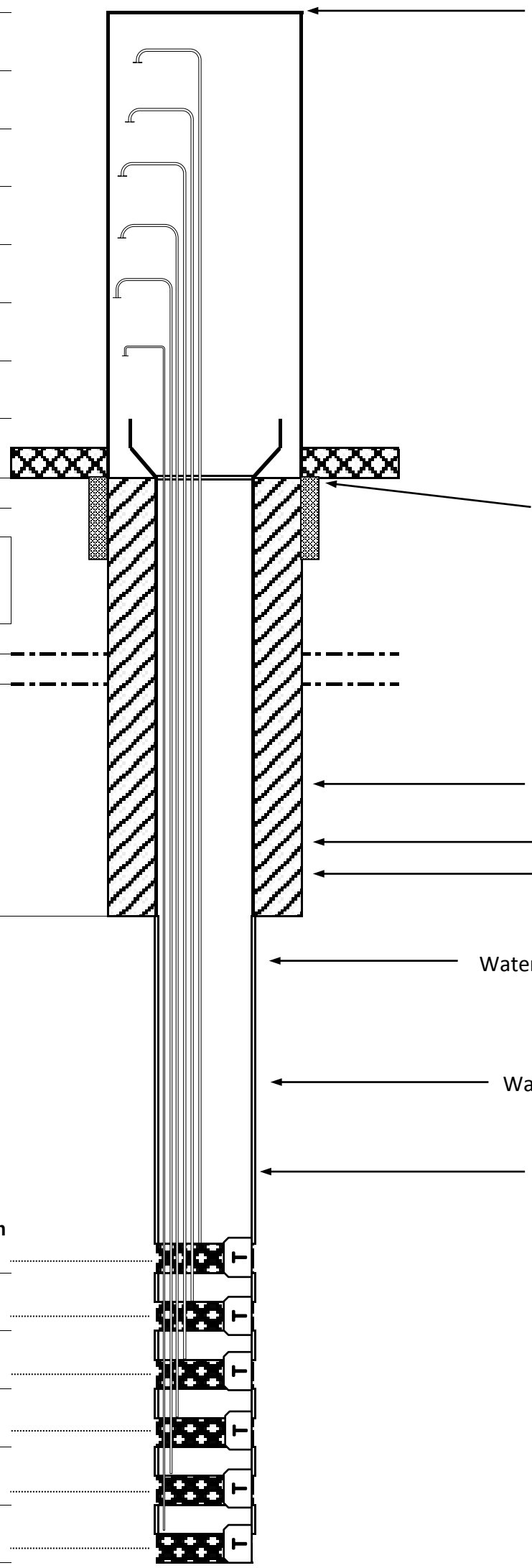
R2-0016604

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well ERT-3
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Air Rotary Tricone	**Development Method**: Air Lifting		**Subcontractor:** Summit Drilling Co.
DATES:	**Drilling/Installation:**	1/15/2008 - 1/15/2008	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	1/15/2008 - 1/22/2008	**Type: STICKUP - VARIABLE**
	Water FLUTe™ Installation Date:	6/11/2008	**PVC Elevation (ft):** 68.69

Item	Depth Below PVC (ft)	Elevation (ft msl)
Stickup	-0.4	69.10
Top of Port 1 Tube	-0.2	68.69
Top of Port 2 Tube	-0.3	68.97
Top of Port 3 Tube	-0.3	68.97
Top of Port 4 Tube	-0.2	68.90
Top of Port 5 Tube	-0.3	68.95
Top of Port 6 Tube	-0.3	68.95
Top of PVC Riser	0.0	68.69
Recommended Liner Water Level	0.50	68.19
Grade	2.8	65.84

	Depth Below Grade (ft)	Elevation (ft msl)
Base of Overburden	3.0	62.84
Base of Weathered Bedrock	10.0	55.84
Top of Open Hole with Water FLUTe™ Liner	25.0	40.84

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	27	37	39	29
2	55	65	11	1
3	90	105	-24	-39
4	110	120	-44	-54
5	124	134	-58	-68
6	138	148	-72	-82
Total Depth	150		-84	



Description

Stickup Type: Steel Casing Cover
Stickup Diameter: 6 (in.)

Surface Seal Type: Concrete
Casing Type: Steel

Borehole Diameter: 10 (in.)

Casing ID: 6 (in.)
Grout Type: Cement-bentonite

Water FLUTe™ Diameter: 6 (in.)

Water FLUTe™ Length: 125.0 (ft.)

Borehole Diameter: 6 (in.)

T Transducer

Notes:

R2-0016605

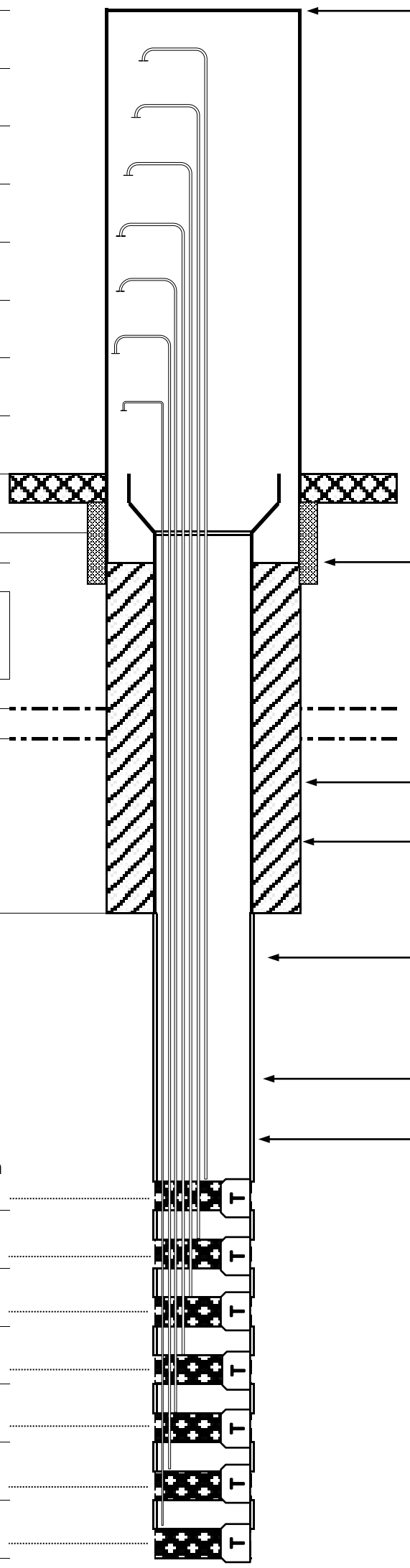
MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well ERT-4
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Air Rotary Tricone	**Development Method**: Air Lifting		**Subcontractor:** Summit Drilling Co.
DATES:	**Drilling/Installation:**	1/14/2008 - 1/14/2008	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	1/14/2008 - 1/16/2008	**Type: STICKUP - VARIABLE**
	Water FLUTe™ Installation Date:	6/10/2008	**PVC Elevation (ft):** 61.77

Item	Depth Below PVC (ft)	Elevation (ft msl)
Stickup	-0.7	62.43
Top of Port 1 Tube	-0.3	62.03
Top of Port 2 Tube	-0.3	62.03
Top of Port 3 Tube	-0.2	62.01
Top of Port 4 Tube	-0.4	62.17
Top of Port 5 Tube	-0.4	62.16
Top of Port 6 Tube	-0.4	62.17
Top of Port 7 Tube	-0.4	62.19
Top of PVC Riser	0.0	61.77
Recommended Liner Water Level	0.50	61.27
Grade	2.6	59.21

	Depth Below Grade (ft)	Elevation (ft msl)
Base of Overburden	3.0	56.21
Base of Weathered Bedrock	10.0	49.21
Top of Open Hole with Water FLUTe™ Liner	25.0	34.21

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	27	37	32	22
2	46	56	13	3
3	61	66	-2	-7
4	83	88	-24	-29
5	91	106	-32	-47
6	111	116	-52	-57
7	128	138	-69	-79
Total Depth	150		-91	

Notes:



Description

Stickup Type: Steel Casing Cover
Stickup Diameter: 6 (in.)

Surface Seal Type: Concrete
Casing Type: Steel

Borehole Diameter: 10 (in.)

Casing ID: 6 (in.)
Grout Type: Cement-bentonite

Water FLUTe™ Diameter: 6 (in.)

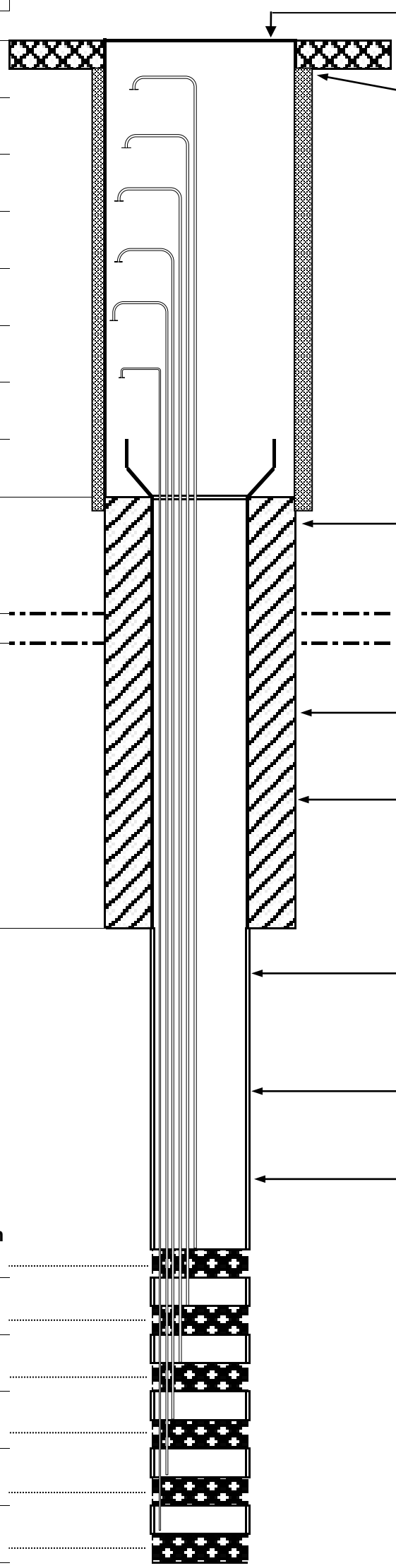
Water FLUTe™ Length: 125.0 (ft.)

Borehole Diameter: 6 (in.)

T Transducer

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well ERT-5
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Air Rotary Tricone	**Development Method**: Air Lifting		**Subcontractor:** Summit Drilling Co.
DATES:	**Drilling/Installation:**	1/2/2008 - 1/4/2008	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	1/4/2008 - 1/8/2008	**Type: FLUSHMOUNT - VARIABLE**
	Water FLUTe™ Installation Dates:	6/7/2008	**GS Elevation (ft):** 69.72

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	69.72
Top of Port 1 Tube	0.5	69.23
Top of Port 2 Tube	0.5	69.23
Top of Port 3 Tube	0.5	69.24
Top of Port 4 Tube	0.6	69.14
Top of Port 5 Tube	0.5	69.24
Top of Port 6 Tube	0.5	69.24
Top of PVC Riser	0.7	69.03
Recommended Liner Water Level	1.19	68.53
Base of Overburden	3.0	66.72
Base of Weathered Bedrock	10.0	59.72
Top of Open Hole with Water FLUTe™ Liner	25.0	44.72



Description

Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	10	(in.)
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	125.0	(ft.)
Borehole Diameter:	6	(in.)

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	24	34	46	36
2	37	47	33	23
3	50	60	20	10
4	77	87	-7	-17
5	93	98	-23	-28
6	120	130	-50	-60
Total Depth	150		-80	

Notes:

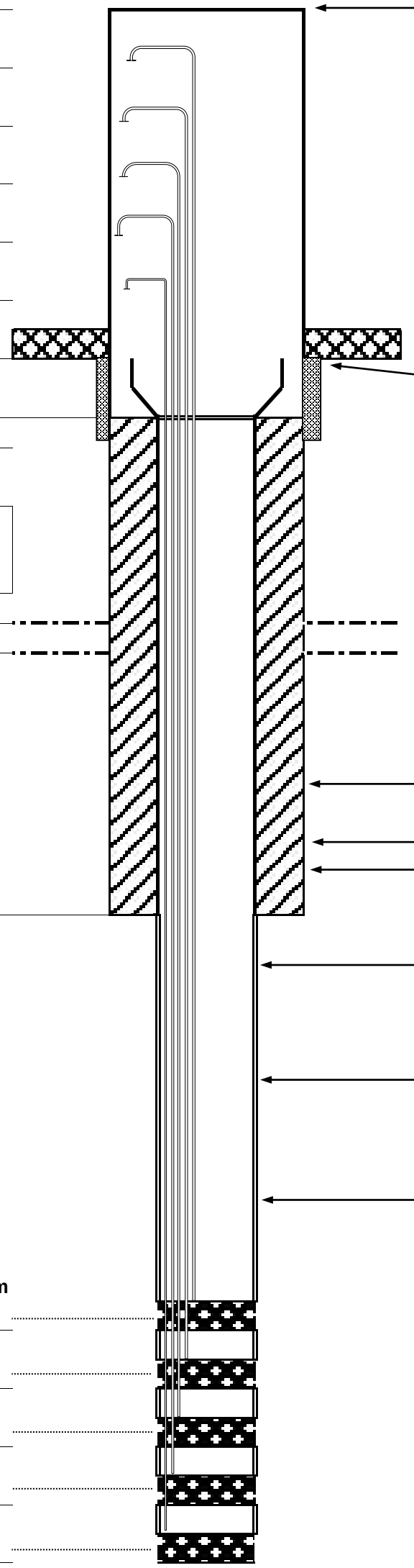
T **Transducer**

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well ERT-6
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Air Rotary Tricone	**Development Method**: Air Lifting		**Subcontractor:** Summit Drilling Co.
DATES:	**Drilling/Installation:**	1/11/2008 - 1/11/2008	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	1/11/2008 - 1/16/2008	**Type: STICKUP - VARIABLE**
	Water FLUTe™ Installation Date:	6/11/2008	**PVC Elevation (ft):** 67.52

Item	Depth Below PVC (ft)	Elevation (ft msl)
Stickup	-0.5	68.04
Top of Port 1 Tube	-0.2	67.73
Top of Port 2 Tube	-0.2	67.71
Top of Port 3 Tube	-0.2	67.72
Top of Port 4 Tube	-0.2	67.72
Top of Port 5 Tube	-0.2	67.72
Top of PVC Riser	0.0	67.52
Recommended Liner Water Level	0.50	67.02
Grade	2.0	65.49

	Depth Below Grade (ft)	Elevation (ft msl)
Base of Overburden	3.0	62.49
Base of Weathered Bedrock	10.0	55.49
Top of Open Hole with Water FLUTe™ Liner	25.0	42.52

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	26	36	39	29
2	75	85	-10	-20
3	93	103	-28	-38
4	107	117	-42	-52
5	128	138	-63	-73
Total Depth	150		-85	



Description

Stickup Type: Steel Casing Cover
Stickup Diameter: 6 (in.)

Surface Seal Type: Concrete
Casing Type: Steel

Borehole Diameter: 10 (in.)

Casing ID: 6 (in.)
Grout Type: Cement-bentonite

Water FLUTe™ Diameter: 6 (in.)

Water FLUTe™ Length: 125.0 (ft.)

Borehole Diameter: 6 (in.)

T Transducer

Notes:

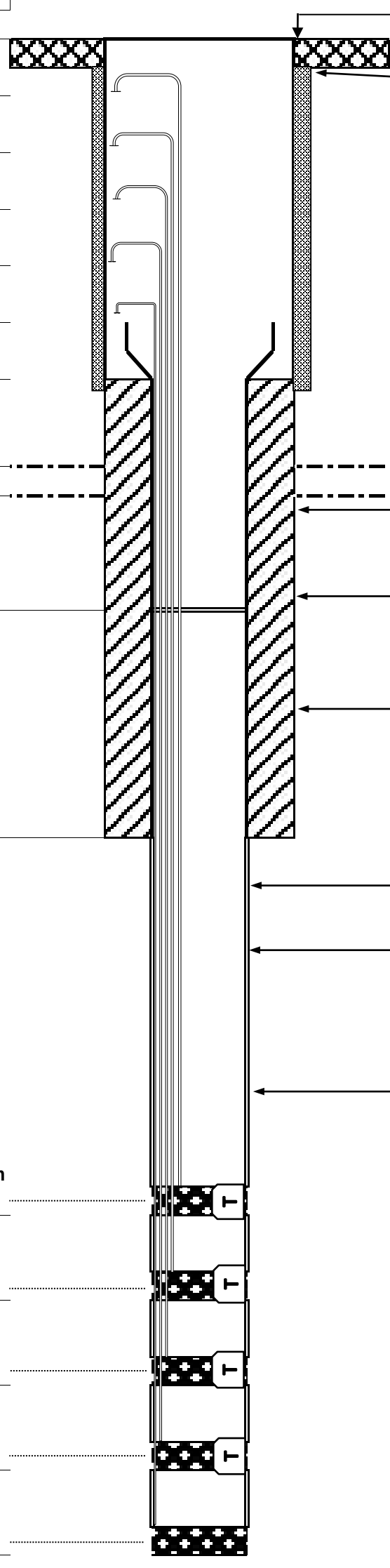
R2-0016608

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well ERT-7
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Air Rotary Tricone	**Development Method**: Air Lifting		**Subcontractor:** Summit Drilling Co.

DATES:		
	Drilling/Installation:	1/16/2008 - 1/16/2008
	Development/Temporary Liner Installation:	1/17/2008 - 1/21/2008
	Water FLUTe™ Installation Dates:	9/23/2009 - 9/28/2009

Measuring Point (MP)
Type: FLUSHMOUNT
GS Elevation (ft): 81.00

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	81.00
Top of Port 1 Tube		
Top of Port 2 Tube		
Top of Port 3 Tube		
Top of Port 4 Tube		
Top of Port 5 Tube		
Top of PVC Riser	0.8	80.19
Base of Overburden	3.0	78.00
Depth to Bedrock	3.0	78.00
Recommended Liner Water Level	9.28	71.72
Top of Open Hole with Water FLUTe™ Liner	25.0	56.00



Description

Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	10	(in.)
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	125.0	(ft.)
Borehole Diameter:	6	(in.)

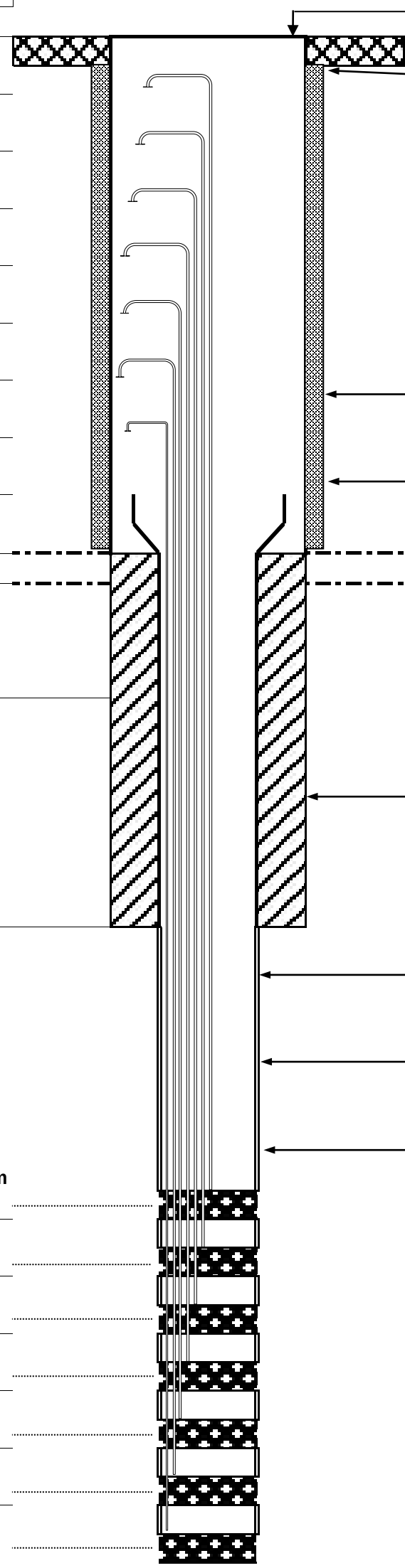
Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	25	35	56	46
2	45	55	36	26
3	65	75	16	6
4	100	110	-19	-29
5	130	140	-49	-59
Total Depth	150		-69	

Notes:

T **Transducer**

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well ERT-8
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Air Rotary Tricone	**Development Method**: Air Lifting		**Subcontractor:** Summit Drilling Co.
DATES:	**Surface Casing Installation:**	2/21/2008 - 2/25/2008	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	2/25/2008 - 3/7/2008	**Type: FLUSHMOUNT**
	Water FLUTe™ Installation Dates:	6/9/2008	**GS Elevation (ft):** 83.36

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	83.36
Top of Port 1 Tube		
Top of Port 2 Tube		
Top of Port 3 Tube		
Top of Port 4 Tube		
Top of Port 5 Tube		
Top of Port 6 Tube		
Top of Port 7 Tube		
Top of PVC Riser	-2.7	82.74
Base of Overburden	2.0	81.36
Depth to Bedrock	2.0	81.36
Recommended Liner Water Level	10.98	72.38
Top of Open Hole with Water FLUTe™ Liner	17.0	66.36



Description		
Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	10	(in.)
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	133.0	(ft.)
Borehole Diameter:	6	(in.)

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	17	27	66	56
2	31	41	52	42
3	44	54	39	29
4	57	62	26	21
5	87	97	-4	-14
6	107	112	-24	-29
7	135	145	-52	-62
Total Depth	150		-67	

Notes:

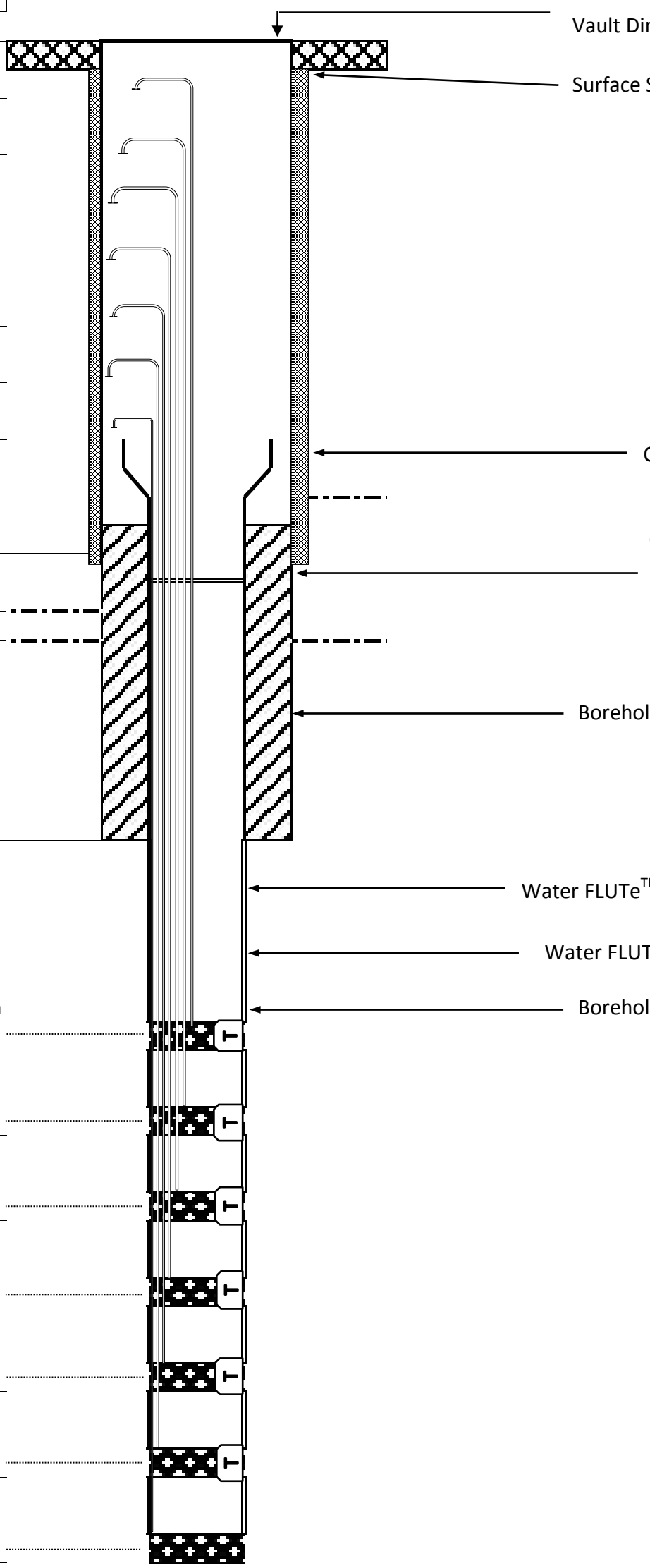
T **Transducer**

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-13
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Mud Rotary Tricone **Development Method**: 3'' Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	3/24/2009 - 3/24/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	3/27/2009 - 3/27/2009	**Type: FLUSHMOUNT - VARIABLE**
	Water FLUTe™ Installation Dates:	9/28/2009 - 9/29/2009	**GS Elevation (ft):** 67.23

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	67.2
Top of Port 1 Tube	0.3	66.9
Top of Port 2 Tube	0.3	66.9
Top of Port 3 Tube	0.3	66.9
Top of Port 4 Tube	0.4	66.8
Top of Port 5 Tube	0.4	66.8
Top of Port 6 Tube	0.3	66.9
Top of Port 7 Tube	0.4	66.9
Top of PVC Riser	0.7	66.5
Recommended Liner Water Level	1.23	66.00
Base of Overburden	5.0	62.23
Base of Weathered Bedrock	8.0	59.23
Top of Open Hole with Water FLUTe™ Liner	18.0	49.23

Description

Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	8	(in.)
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	232.0	(ft.)
Borehole Diameter:	6	(in.)



Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	18	28	49	39
2	35	45	32	22
3	63	73	4	-6
4	95	105	-28	-38
5	115	125	-48	-58
6	150	160	-83	-93
7	230	240	-163	-173
Total Depth	250		-183	

Notes:

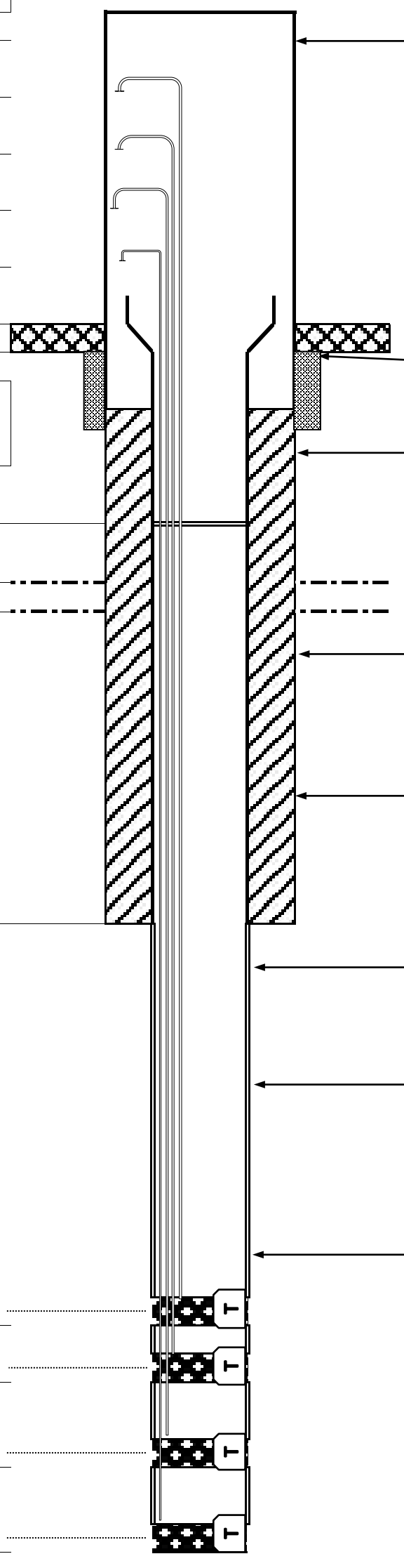
T **Transducer**

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-14S
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/HQ Triple Tube Core **Development Method:** 3" Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	5/27/2009 - 5/27/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	5/29/2009 - 6/1/2009	**Type: STICKUP**
	Water FLUTe™ Installation Dates:	9/18/2009 - 9/21/2009	**PVC Elevation (ft):** 77.05

Item	Depth Below PVC (ft)	Elevation (ft msl)
Stickup	-0.9	77.91
Top of Port 1 Tube		
Top of Port 2 Tube		
Top of Port 3 Tube		
Top of Port 4 Tube		
Top of PVC Riser	0.0	77.05
Grade	2.0	75.08

	Depth Below Grade (ft)	Elevation (ft msl)
Recommended Liner Water Level	3.59	71.49
Base of Overburden	10.0	67.05
Base of Weathered Bedrock	13.0	64.05
Top of Open Hole with Water FLUTe™ Liner	23.0	54.05

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	30	35	45	40
2	41	46	34	29
3	55	60	20	15
4	65	70	10	5
Total Depth	70		5	



Description

Stickup Type: Steel
Stickup Diameter: 13 (in.)

Surface Seal Type: Concrete

Casing Type: Steel
Casing ID: 6 (in.) (in.)

Grout Type: Cement-bentonite

Borehole Diameter: 10 (in.)

Water FLUTe™ Diameter: 6 (in.)

Borehole Diameter: 6 (in.)

Water FLUTe™ Length: 47.0 (ft.)

T Transducer

Notes:

R2-0016612

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-14D
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/HQ Triple Tube Core **Development Method:** 3'' Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	2/16/2009 - 2/16/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	3/5/2009 - 3/6/2009	**Type: STICKUP**
	Water FLUTe™ Installation Dates:	9/30/2009	**PVC Elevation (ft):** 76.79

Item	Depth Below PVC (ft)	Elevation (ft msl)
Stickup	-2.7	77.92
Top of Port 1 Tube		
Top of Port 2 Tube		
Top of Port 3 Tube		
Top of PVC Riser	-2.7	76.79
Grade	0.0	75.29

	Depth Below Grade (ft)	Elevation (ft msl)
Recommended Liner Water Level	4.05	71.24
Base of Overburden	9.0	66.29
Base of Weathered Bedrock	10.0	65.29
Top of Open Hole with Water FLUTe™ Liner	69.0	7.79

Description

Stickup Type: Steel
Stickup Diameter: 13 (in.)

Surface Seal Type: Concrete

Casing Type: Steel
Casing ID: 6 (in.)

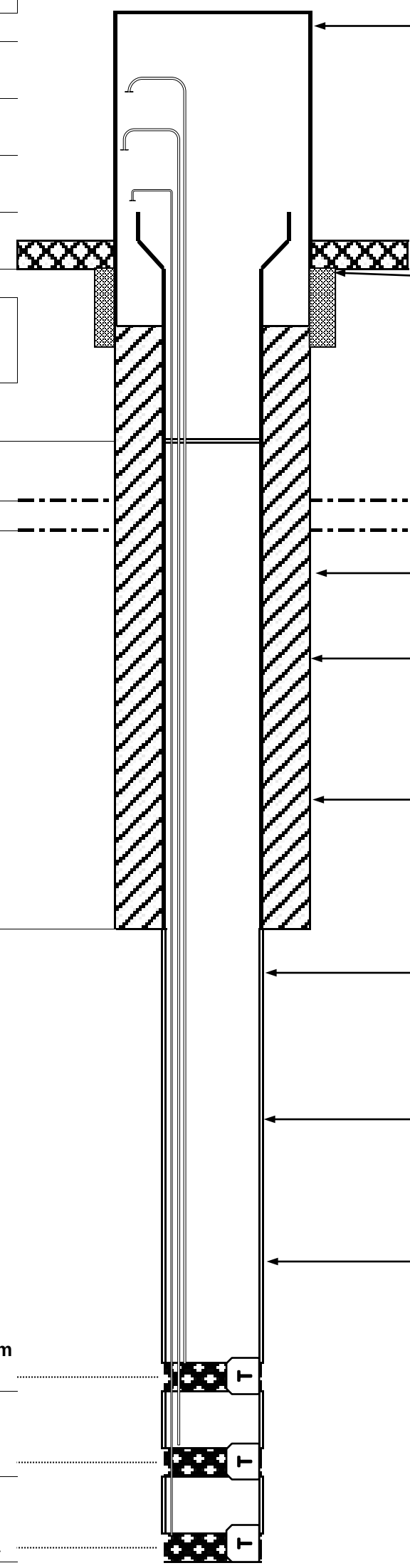
Grout Type: Cement-bentonite

Borehole Diameter: 10 (in.)

Water FLUTe™ Diameter: 6 (in.)

Borehole Diameter: 6 (in.)

Water FLUTe™ Length: 164.0 (ft.)



Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	80	85	-5	-10
2	123	133	-48	-58
3	199	209	-124	-134
Total Depth	233		-155	

Notes:

T **Transducer**

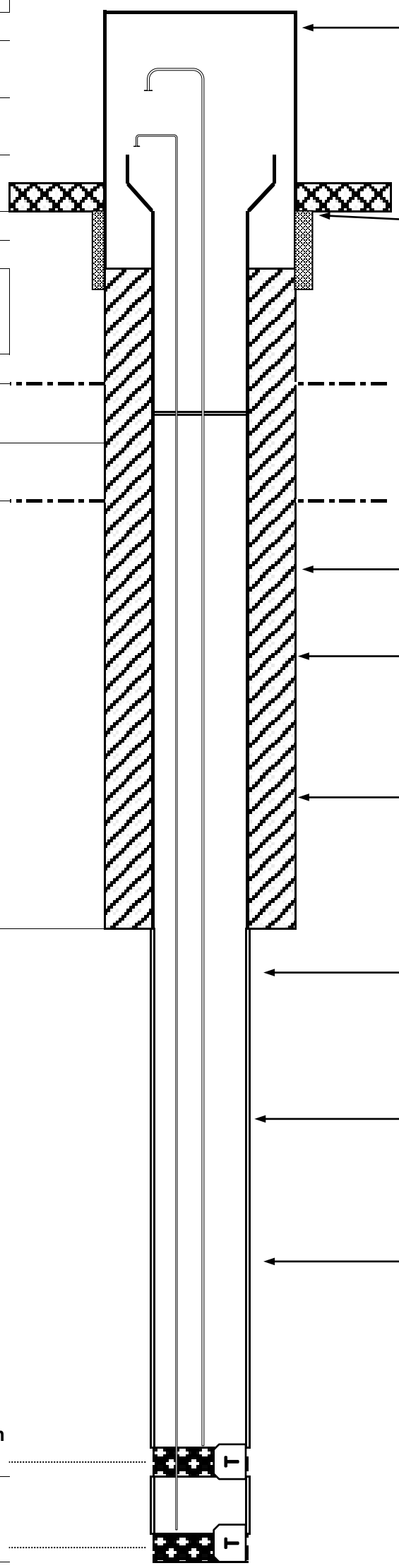
MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-15S
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Mud Rotary Tricone **Development Method:** 3'' Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	3/31/2009 - 3/31/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	4/2/2009 - 4/3/2009	**Type: STICKUP - VARIABLE**
	Water FLUTe™ Installation Dates:	10/1/2009 - 10/2/2009	**PVC Elevation (ft):** 77.46

Item	Depth Below PVC (ft)	Elevation (ft msl)
Stickup	-0.7	78.14
Top of Port 1 Tube	-0.4	77.90
Top of Port 2 Tube	-0.4	77.89
Top of PVC Riser	0.0	77.46
Grade	2.0	75.42

	Depth Below Grade (ft)	Elevation (ft msl)
Base of Overburden	4.0	71.42
Recommended Liner Water Level	4.02	71.40
Base of Weathered Bedrock	8.0	67.42
Top of Open Hole with Water FLUTe™ Liner	18.0	57.42

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	30	40	45	35
2	70	80	5	-5
Total Depth	100		-25	

Notes:



Description

Stickup Type: Steel
Stickup Diameter: 13 (in.)

Surface Seal Type: Concrete

Casing Type: Steel
Casing ID: 6 (in.)

Grout Type: Cement-bentonite

Borehole Diameter: 10 (in.)

Water FLUTe™ Diameter: 6 (in.)

Borehole Diameter: 6 (in.)

Water FLUTe™ Length: 82.0 (ft.)

T **Transducer**

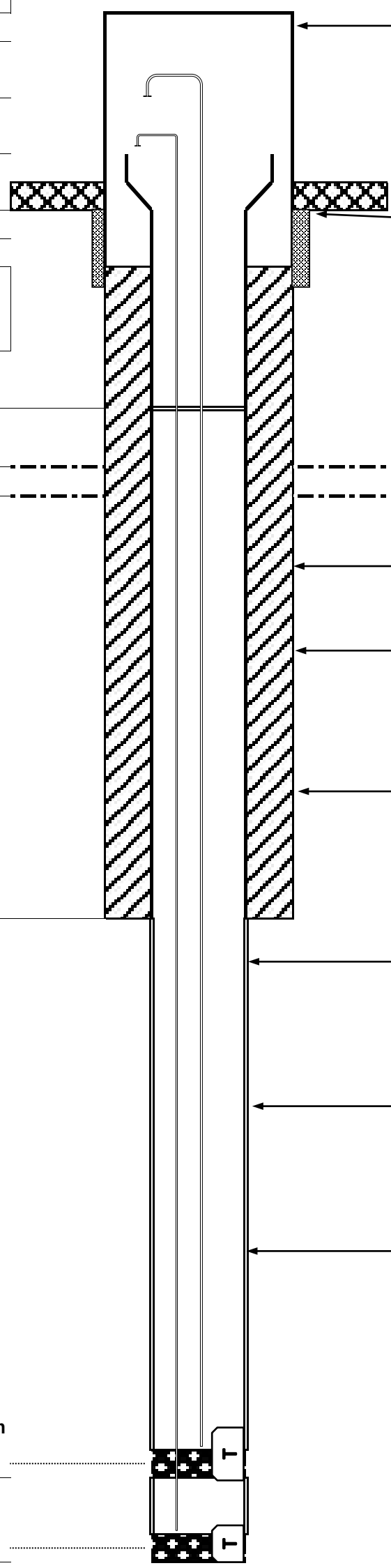
MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-15D
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Mud Rotary Tricone **Development Method:** 3" Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	4/1/2009 - 4/3/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	4/7/2009 - 4/9/2009	**Type: STICKUP VARIABLE**
	Water FLUTe™ Installation Dates:	10/1/2009 - 10/2/2009	**PVC Elevation (ft):** 77.35

Item	Depth, below Measuring Point (ft)	Elevation (ft msl)
Stickup	-0.8	78.2
Top of Port 1 Tube	-0.4	77.75
Top of Port 2 Tube	-0.4	77.73
Top of PVC Riser	0.0	77.4
Grade	2.1	75.3

	Depth Below Grade (ft)	Elevation (ft msl)
Recommended Liner Water Level	3.81	71.45
Base of Overburden	4.0	71.26
Base of Weathered Bedrock	8.0	67.26
Top of Open Hole with Water FLUTe™ Liner	100.0	-24.74

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	125	135	-50	-60
2	185	195	-110	-119.7
Total Depth	233		-158	

Notes:



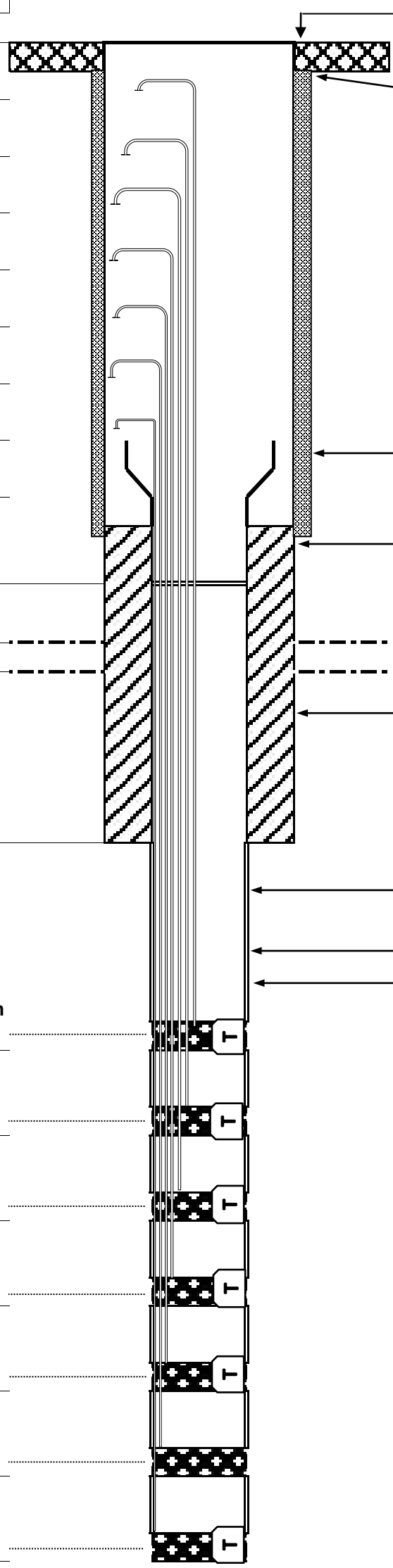
Description

Stickup Type:	Steel	
Stickup Diameter:	13	(in.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	10	(in.)
Water FLUTe™ Diameter:	6	(in.)
Borehole Diameter:	6	(in.)
Water FLUTe™ Length:	133.0	(ft.)

T **Transducer**

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-16
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/HQ Triple Tube Core **Development Method:** 3'' Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	1/19/2009 - 3/16/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	2/4/2009 - 2/6/2009	**Type: FLUSHMOUNT - VARIABLE**
	Water FLUTe™ Installation Dates:	9/17/2009 - 2/23/2009	**GS Elevation (ft):** 70.73

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	70.73
Top of Port 1 Tube	1.6	69.16
Top of Port 2 Tube	1.5	69.20
Top of Port 3 Tube	1.6	69.16
Top of Port 4 Tube	1.5	69.20
Top of Port 5 Tube	1.6	69.14
Top of Port 6 Tube	1.6	69.10
Top of Port 7 Tube	1.6	69.12
Top of PVC Riser	1.9	68.87
Recommended Liner Water Level	2.36	68.37
Base of Overburden	9.0	61.73
Base of Weathered Bedrock	10.0	60.73
Top of Open Hole with Water FLUTe™ Liner	20.0	50.73



Description		
Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	10	(in.)
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	230.0	(ft.)
Borehole Diameter:	6	(in.)

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	20	30	51	41
2	40	50	31	21
3	85	95	-14	-24
4	108	118	-37	-47
5	135	145	-64	-74
6	170	180	-99	-109
7	195	205	-124	-134
Total Depth	250		-179	

Notes:

T **Transducer**

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-17
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Mud Rotary Tricone **Development Method**: 3" Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	3/9/2009 - 3/9/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	3/13/2009 - 3/13/2009	**Type: FLUSHMOUNT - VARIABLE**
	Water FLUTe™ Installation Dates:	9/11/2009 - 9/12/2009	**GS Elevation (ft):** 81.03

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	81.03
Top of Port 1 Tube	0.5	80.54
Top of Port 2 Tube	0.6	80.41
Top of Port 3 Tube	0.5	80.49
Top of PVC Riser	0.9	80.14
Base of Overburden	9.0	72.03
Base of Weathered Bedrock	10.0	71.03
Recommended Liner Water Level	10.09	70.94
Top of Open Hole with Water FLUTe™ Liner	20.0	61.03

Description

Vault Dimensions: 2 x 2 (ft.)

Surface Seal Type: Concrete

Casing Type: Steel

Casing ID: 6 (in.)

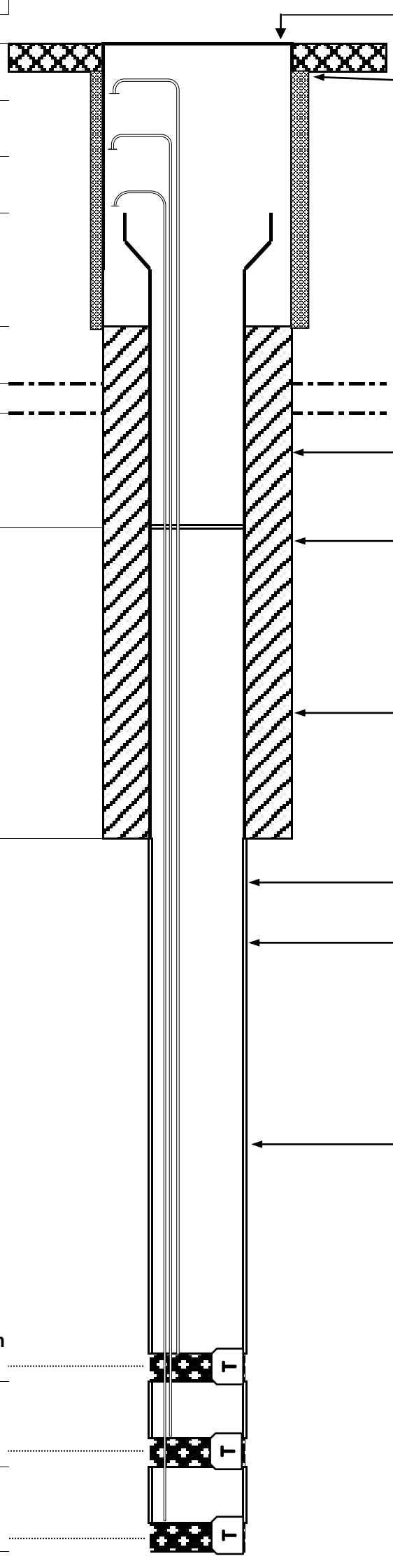
Grout Type: Cement-bentonite

Borehole Diameter: 10 (in.)

Water FLUTe™ Diameter: 6 (in.)

Water FLUTe™ Length: 230.0 (ft.)

Borehole Diameter: 6 (in.)



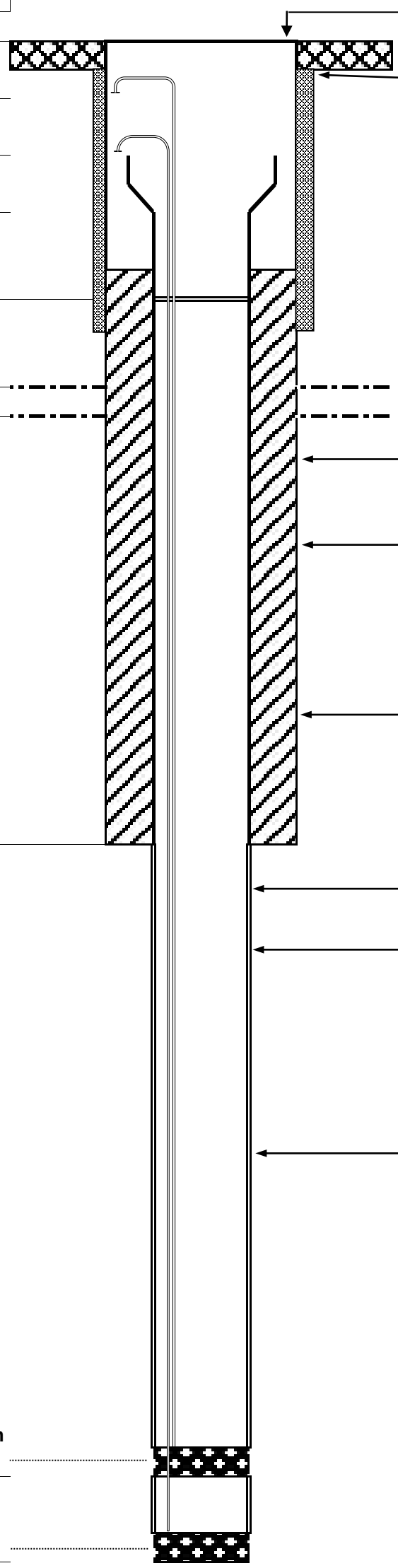
Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	170	180	-89	-99
2	205	215	-124	-134
3	235	245	-154	-164
Total Depth	250		-169	

Notes:

T **Transducer**

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-18
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Mud Rotary Tricone **Development Method**: 3" Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	3/17/2009 - 3/17/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	3/20/2009 - 3/23/2009	**Type: FLUSHMOUNT**
	Water FLUTe™ Installation Dates:	9/14/2009 - 9/16/2009	**GS Elevation (ft):** 68.24

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	68.24
Top of Port 1 Tube	0.5	67.72
Top of Port 2 Tube	0.5	67.71
Top of PVC Riser	0.9	67.38
Recommended Liner Water Level	1.36	66.88
Base of Overburden	10.0	58.24
Base of Weathered Bedrock	12.0	56.24
Top of Open Hole with Water FLUTe™ Liner	22.0	46.24



Description

Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	8	(in.)
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	228.0	(ft.)
Borehole Diameter:	6	(in.)

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	160	170	-92	-102
2	210	220	-142	-152
Total Depth	250		-182	

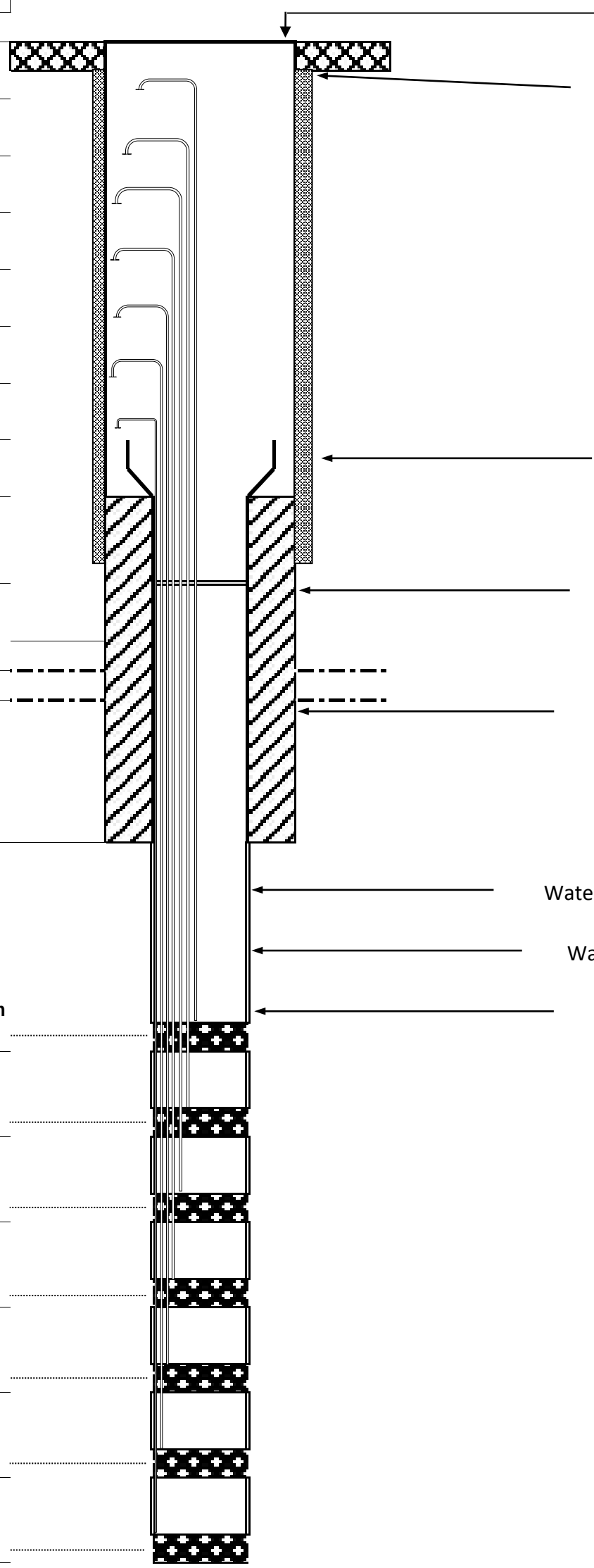
Notes:

T **Transducer**

R2-0016618

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-19
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Mud Rotary Tricone **Development Method**: 3'' Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	5/12/2009 - 5/12/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	5/22/2009 - 5/30/2009	**Type: FLUSHMOUNT**
	Water FLUTe™ Installation Dates:	9/12/2009 - 9/21/2009	**GS Elevation (ft):** 64.53

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	64.53
Top of Port 1 Tube		
Top of Port 2 Tube		
Top of Port 3 Tube		
Top of Port 4 Tube		
Top of Port 5 Tube		
Top of Port 6 Tube		
Top of Port 7 Tube		
Top of PVC Riser	0.8	63.78
Recommended Liner Water Level	1.25	63.28
Base of Overburden	25.0	39.53
Base of Weathered Bedrock	28.0	36.53
Top of Open Hole with Water FLUTe™ Liner	57.0	7.53



Description

Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	10	(in.)
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	543.0	(ft.)
Borehole Diameter:	6	(in.)

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	65	75	0	-10
2	132	142	-67	-77
3	200	210	-135	-145
4	257	267	-192	-202
5	367	377	-302	-312
6	480	490	-415	-425
7	545	555	-480	-490
Total Depth	600		-535	

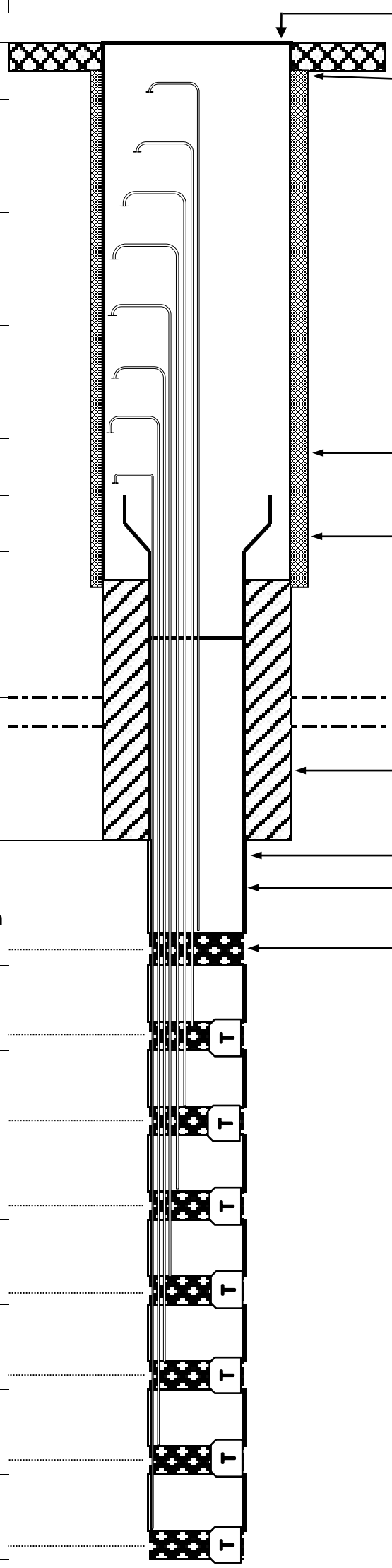
Notes:

T **Transducer**

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-20
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/HQ Triple Tube Core **Development Method:** 3'' Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	2/6/2009 - 2/6/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	2/27/2009 - 2/28/2009	**Type: FLUSHMOUNT - VARIABLE**
	Water FLUTe™ Installation Dates:	9/11/2009 - 9/12/2009	**GS Elevation (ft):** 66.22

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	66.22
Top of Port 1 Tube	0.7	65.54
Top of Port 2 Tube	0.7	65.54
Top of Port 3 Tube	0.7	65.49
Top of Port 4 Tube	0.7	65.56
Top of Port 5 Tube	0.6	65.58
Top of Port 6 Tube	0.7	65.53
Top of Port 7 Tube	0.6	65.57
Top of Port 8 Tube	0.6	65.42
Top of PVC Riser	1.0	65.22
Recommended Liner Water Level	1.50	64.72
Base of Overburden	12.0	54.22
Base of Weathered Bedrock	15.0	51.22
Top of Open Hole with Water FLUTe™ Liner	25.0	41.22

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	25	35	41	31
2	85	95	-19	-29
3	125	135	-59	-69
4	175	185	-109	-119
5	205	215	-139	-149
6	250	260	-184	-194
7	297	307	-231	-241
8	355	365	-289	-299
Total Depth	413		-347	



Description

Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	10	(in.)
Borehole Diameter:	6	(in.)
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	388.0	(ft.)

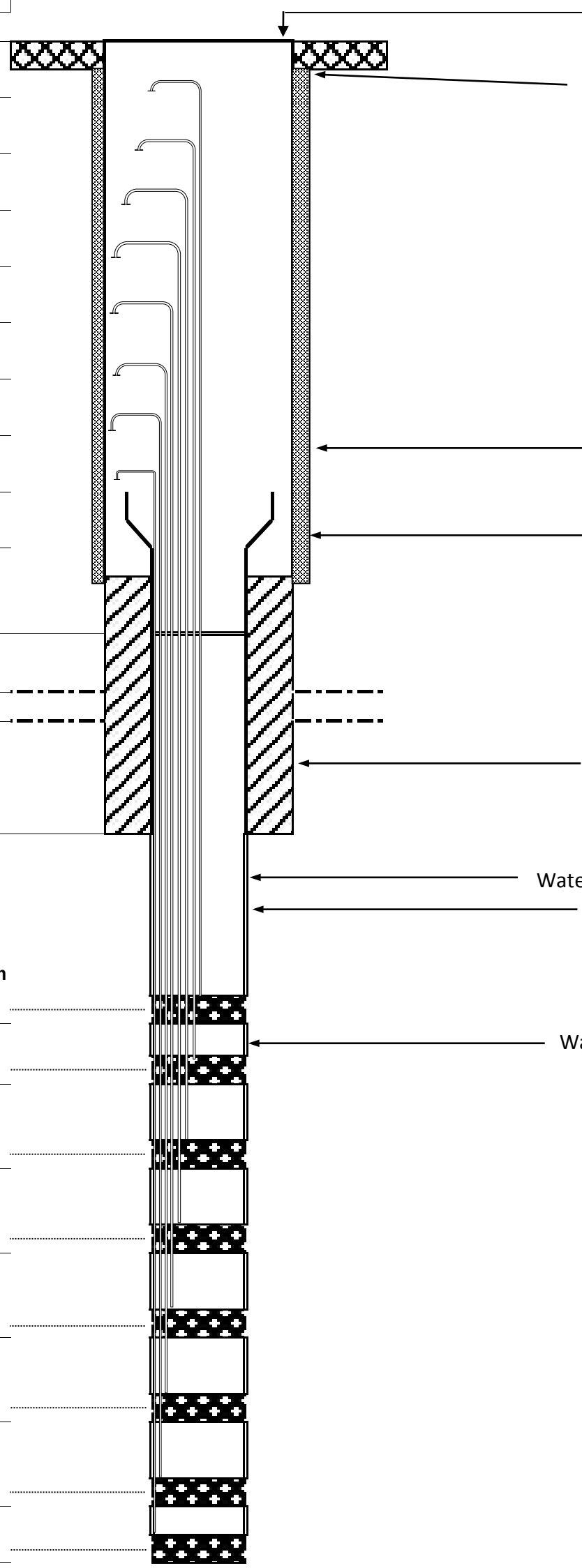
Notes:

T Transducer

R2-0016620

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-21
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Mud Rotary Tricone **Development Method**: 3" Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	4/13/2009 - 4/13/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	4/23/2009 - 4/28/2009	**Type: FLUSHMOUNT**
	Water FLUTe™ Installation Dates:	9/16/2009 - 9/28/2009	**GS Elevation (ft):** 59.17

Item	Depth Below Grade (ft)	Elevation (ft)
Grade	0.0	59.17
Top of Port 1 Tube		
Top of Port 2 Tube		
Top of Port 3 Tube		
Top of Port 4 Tube		
Top of Port 5 Tube		
Top of Port 6 Tube		
Top of Port 7 Tube		
Top of Port 8 Tube		
Top of PVC Riser	0.7	58.50
Recommended Liner Water Level	1.17	58.00
Base of Overburden	18.0	41.17
Base of Weathered Bedrock	20.0	39.17
Top of Open Hole with Water FLUTe™ Liner	30.0	29.17



Description

Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	10	(in.)
Water FLUTe™ Diameter:	6	(in.)
Borehole Diameter:	6	(in.)
Water FLUTe™ Length:	520.0	(ft.)

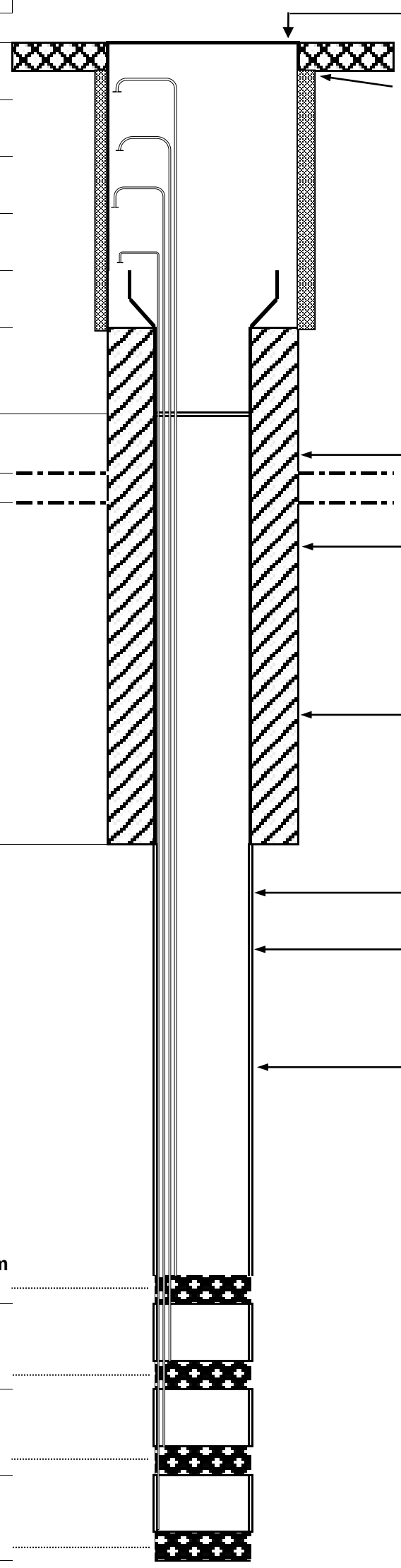
Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	50	60	9	-60
2	87	97	-87	-97
3	150	160	-150	-160
4	205	215	-205	-215
5	260	270	-260	-270
6	428	438	-428	-438
7	485	495	-485	-495
8	505	515	-505	-515
Total Depth	550		-491	

Notes:

T **Transducer**

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-22
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Mud Rotary Tricone **Development Method**: 3'' Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	4/29/2009 - 4/29/2009	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	5/5/2009 - 6/5/2009	**Type: FLUSHMOUNT**
	Water FLUTe™ Installation Dates:	9/14/2009 - 9/15/2009	**GS Elevation (ft):** 69.28

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	69.28
Top of Port 1 Tube		
Top of Port 2 Tube		
Top of Port 3 Tube		
Top of Port 4 Tube		
Top of PVC Riser	0.8	68.52
Recommended Liner Water Level	1.26	68.02
Base of Overburden	18.0	51.28
Base of Weathered Bedrock	20.0	49.28
Top of Open Hole with Water FLUTe™ Liner	29.0	40.28



Description

Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	8	(in.)
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	321.0	(ft.)
Borehole Diameter:	6	(in.)

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	45	55	24	-55
2	125	135	-125	-135
3	210	220	-210	-220
4	305	315	-305	-315
Total Depth	350		-281	

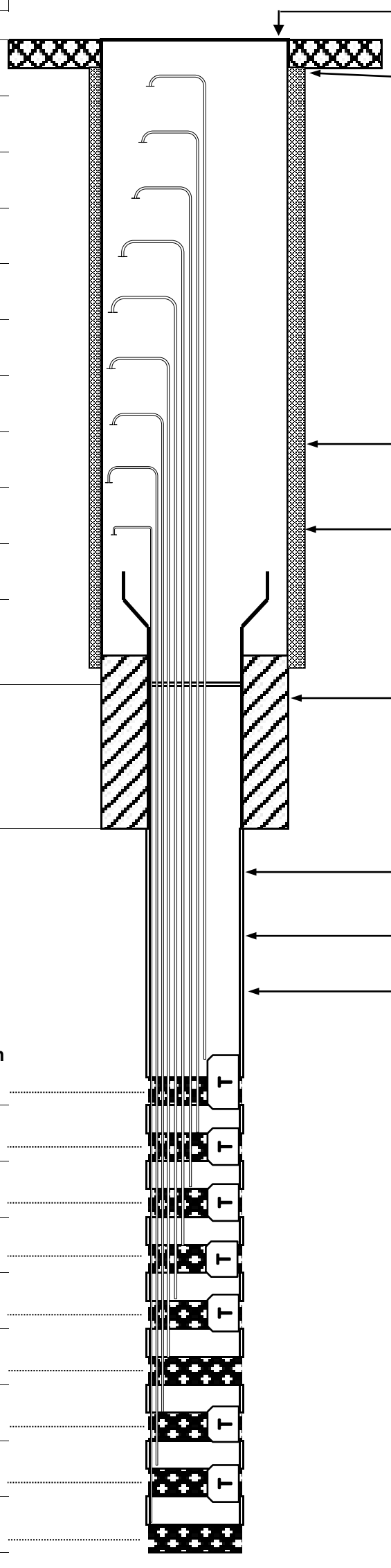
Notes:

T **Transducer**

R2-0016622

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well FPW
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Mud Rotary Tricone **Development Method**: 3'' Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	unknown	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	unknown	**Type: FLUTE VAULT - VARIABLE**
	Water FLUTe™ Installation Dates:	10/5/2009 - 10/6/2009	**GS Elevation (ft):** 72.43

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	72.43
Top of Port 1 Tube		
Top of Port 2 Tube		
Top of Port 3 Tube		
Top of Port 4 Tube		
Top of Port 5 Tube		
Top of Port 6 Tube		
Top of Port 7 Tube		
Top of Port 8 Tube		
Top of Port 9 Tube		
Top of PVC Riser	0.8	71.64
Recommended Liner Water Level	1.14	71.29
Top of Open Hole with Water FLUTe™ Liner	31.0	41.43



Description

Vault Dimensions:	2 x 2	(ft.)
Surface Seal Type:	Concrete	
Casing Type:	Steel	
Casing ID:	6	(in.)
Grout Type:	Cement-bentonite	
Borehole Diameter:	10	(in.)
Water FLUTe™ Diameter:	6	(in.)
Water FLUTe™ Length:	285.0	(ft.)
Borehole Diameter:	6	(in.)

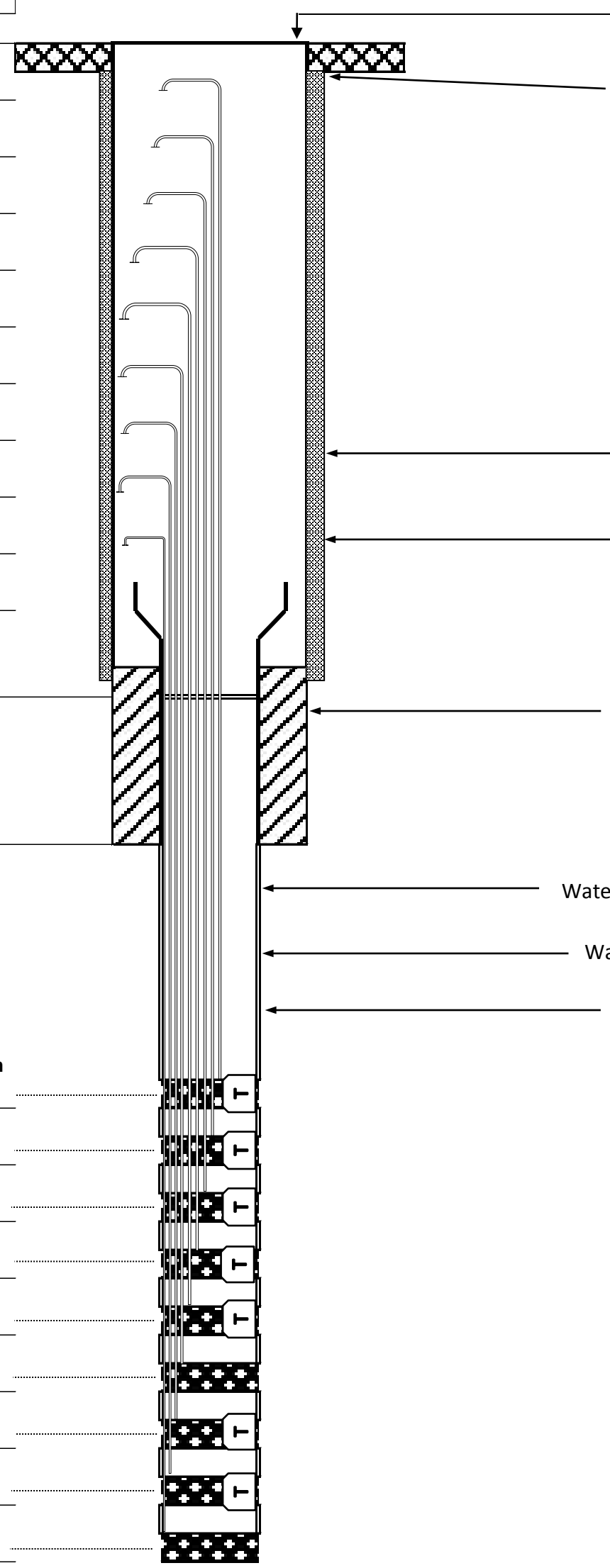
Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	31	41	41	31
2	46	51	26	21
3	100	110	-28	-38
4	125	135	-53	-63
5	180	190	-108	-118
6	200	205	-128	-133
7	235	245	-163	-173
8	268	278	-196	-206
9	300	310	-228	-238
Total Depth	316		-244	

Notes:

T **Transducer**

MALCOLM PIRNIE, INC.			BEDROCK FLUTe™ Well MW-23
Client: USACE/USEPA	**Project:** Cornell - Dubilier Electronics Superfund Site	**Job Number:** 4553066	
Drilling Method: Hollow Stem Auger/Mud Rotary Tricone **Development Method**: 3'' Electrosubmersible Pump			**Subcontractor:** Advanced Drilling
DATES:	**Surface Casing Installation:**	9/7/2010 - 9/8/2010	**Measuring Point (MP)**
	Development/Temporary Liner Installation:	9/21/2010 - 9/25/2010	**Type: FLUTE VAULT - VARIABLE**
	Water FLUTe™ Installation Dates:	12/16/2010 - 12/17/2010	**GS Elevation (ft):** 70.43

Item	Depth Below Grade (ft)	Elevation (ft msl)
Grade	0.0	70.43
Top of Port 1 Tube		
Top of Port 2 Tube		
Top of Port 3 Tube		
Top of Port 4 Tube		
Top of Port 5 Tube		
Top of Port 6 Tube		
Top of Port 7 Tube		
Top of Port 8 Tube		
Top of Port 9 Tube		
Top of PVC Riser	0.75	69.68
Recommended Liner Water Level	2.42	68.01
Top of Open Hole with Water FLUTe™ Liner	52.0	18.43



Description

Vault Dimensions: 2 x 2 (ft.)

Surface Seal Type: Concrete

Casing Type: Steel

Casing ID: 6 (in.)

Grout Type: Cement-bentonite

Borehole Diameter: 10 (in.)

Water FLUTe™ Diameter: 6.5 (in.)

Water FLUTe™ Length: 500.0 (ft.)

Borehole Diameter: 6 (in.)

Port Number:	Interval Top	Interval Bottom	Elevation Top	Elevation Bottom
1	60	70	10	0
2	120	130	-50	-60
3	170	180	-100	-110
4	226	236	-156	-166
5	258	268	-188	-198
6	316	326	-246	-256
7	350	360	-280	-290
8	406	416	-336	-346
9	444	454	-374	-384
Total Depth	500		-430	

Notes:

T **Transducer**

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056570
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): TW-1

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 43.261" Latitude: North 40° 34' 31.264"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634509.34 East: 516564.05
Elevation of Top of Inner PVC Casing (cap off) at 77.18 PVC
reference mark (NAVD 88 nearest 0.01'): 77.67 OUTER CASING
75.05 GROUND
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

6/2/10
DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #28307
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056570
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): TW-2

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 43.341" Latitude: North 40° 34' 31.254"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634508.28 East: 516557.83
Elevation of Top of Inner PVC Casing (cap off) at reference mark (NAVD 88 nearest 0.01'): 77.26 PVC
N/A OUTER CASING
75.02 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

8/2/10
DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #28307
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number:
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): PRODUCTION WELL

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24'41.951" Latitude: North 40° 34'36.076"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634996.33 East: 516664.59

Elevation of Top of Inner PVC Casing (cap off) at 71.64 PVC
reference mark (NAVD 88 nearest 0.01'): 72.43 OUTER CASING
72.43 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

12/7/09
DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #28307
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500069797
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): ERT-1

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 37.586" Latitude: North 40° 34'28.794"

New Jersey State Plane Coordinates NAD 83 to nearest 1 feet:
North 634259.79 East: 517002.19

Elevation of Top of Inner PVC Casing (cap off) at 72.84 PVC
reference mark (NAVD 88 nearest 0.01'): 73.46 OUTER CASING
70.47 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes:
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

12/7/09
DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #28307
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500069798
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): ERT-2

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 51.840" Latitude: North 40° 34'35.985"

New Jersey State Plane Coordinates NAD 83 to nearest 1 feet:
North 634986.40 East: 515901.59

Elevation of Top of Inner PVC Casing (cap off) at 80.36 PVC
reference mark (NAVD 88 nearest 0.01'): 80.99 OUTER CASING
80.99 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500069795
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): ERT-3

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 49.583" Latitude: North 40° 34'48.005"

New Jersey State Plane Coordinates NAD 83 to nearest 1 feet:
North 636202.86 East: 516074.60

Elevation of Top of Inner PVC Casing (cap off) at 68.69 PVC
reference mark (NAVD 88 nearest 0.01'): 69.10 OUTER CASING
65.84 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500069801
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): ERT-4

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 58.829" Latitude: North 40° 34'47.258"

New Jersey State Plane Coordinates NAD 83 to nearest 1 feet:
North 636126.60 East: 515361.98

Elevation of Top of Inner PVC Casing (cap off) at 61.77 PVC
reference mark (NAVD 88 nearest 0.01'): 62.43 OUTER CASING
59.21 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500069802
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): ERT-5

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 25' 10.151" Latitude: North 40° 34'31.529"

New Jersey State Plane Coordinates NAD 83 to nearest 1 feet:
North 634534.09 East: 514489.22

Elevation of Top of Inner PVC Casing (cap off) at 73.09 PVC
reference mark (NAVD 88 nearest 0.01'): 69.72 OUTER CASING
69.72 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500069796
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): ERT-6

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 25' 07.972" Latitude: North 40° 34'38.308"

New Jersey State Plane Coordinates NAD 83 to nearest 1 feet:
North 635220.22 East: 514656.72

Elevation of Top of Inner PVC Casing (cap off) at 67.52 PVC
reference mark (NAVD 88 nearest 0.01'): 68.04 OUTER CASING
65.49 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500069793
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): ERT-7

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24'52.154" Latitude: North 40° 34'29.501"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634330.28 East: 515878.03

Elevation of Top of Inner PVC Casing (cap off) at 80.19 PVC
reference mark (NAVD 88 nearest 0.01'): 81.00 OUTER CASING
81.00 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
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DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500069799
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): ERT-8

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 25'54.069" Latitude: North 40° 34'22.896"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 633661.75 East: 515730.94

Elevation of Top of Inner PVC Casing (cap off) at 82.74 PVC
reference mark (NAVD 88 nearest 0.01'): 83.36 OUTER CASING
83.36 GROUND
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056561
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-1A

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 46.739" Latitude: North 40° 34'38.333"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 635224.38 East: 516294.93

Elevation of Top of Inner PVC Casing (cap off) at 70.43 PVC
reference mark (NAVD 88 nearest 0.01'): 70.70 OUTER CASING
70.70 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056562
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-2A

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 42.288" Latitude: North 40° 34'37.580"

New Jersey State Plane Coordinates NAD 83 to nearest 1 feet:
North 635148.54 East: 516638.44

Elevation of Top of Inner PVC Casing (cap off) at 70.98 PVC
reference mark (NAVD 88 nearest 0.01'): 71.44 OUTER CASING
71.44 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056563
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-3

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 39.893" Latitude: North 40° 34'34.865"

New Jersey State Plane Coordinates NAD 83 to nearest 1 feet:
North 634873.98 East: 516823.50

Elevation of Top of Inner PVC Casing (cap off) at 70.53 PVC
reference mark (NAVD 88 nearest 0.01'): 71.11 OUTER CASING
71.11 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056564
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-4

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 39.559" Latitude: North 40° 34'32.895"

New Jersey State Plane Coordinates NAD 83 to nearest 1 feet:
North 634674.67 East: 516849.47

Elevation of Top of Inner PVC Casing (cap off) at 71.65 PVC
reference mark (NAVD 88 nearest 0.01'): 72.59 OUTER CASING
72.59 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056565
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-5

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 36.802" Latitude: North 40° 34'30.384"

New Jersey State Plane Coordinates NAD 83 to nearest 1 feet:
North 634420.79 East: 517062.48

Elevation of Top of Inner PVC Casing (cap off) at 72.79 PVC
reference mark (NAVD 88 nearest 0.01'): 73.92 OUTER CASING
70.84 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056566
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-6

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 43.549" Latitude: North 40° 34'33.571"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634742.76 East: 516541.56

Elevation of Top of Inner PVC Casing (cap off) at 74.38 PVC
reference mark (NAVD 88 nearest 0.01'): 74.73 OUTER CASING
74.73 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
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(Please print or type)

515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056567
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-7

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 49.377" Latitude: North 40° 34'33.825"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634767.95 East: 516091.88

Elevation of Top of Inner PVC Casing (cap off) at 81.35 PVC
reference mark (NAVD 88 nearest 0.01'): 82.14 OUTER CASING
81.28 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

12/7/14
DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #28307
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056568
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-8

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 45.684" Latitude: North 40° 34'30.121"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634393.44 East: 516377.17

Elevation of Top of Inner PVC Casing (cap off) at 77.57 PVC
reference mark (NAVD 88 nearest 0.01'): 77.90 OUTER CASING
75.23 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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PROFESSIONAL LAND SURVEYOR'S SIGNATURE

12/8/04
DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #28307
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056570
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-9

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 39.286" Latitude: North 40° 34'30.164"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634398.32 East: 516870.83

Elevation of Top of Inner PVC Casing (cap off) at 75.76 PVC
reference mark (NAVD 88 nearest 0.01'): 76.79 OUTER CASING
75.09 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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SEAL

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

8/2/10
DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #28307
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056570
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-10

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 40.828" Latitude: North 40° 34'27.215"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634099.75 East: 516752.16

Elevation of Top of Inner PVC Casing (cap off) at 74.41 PVC
reference mark (NAVD 88 nearest 0.01'): 75.44 OUTER CASING
72.94 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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12/7/09
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PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056571
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-11

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 43.116" Latitude: North 40° 34'31.333"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634516.26 East: 516575.18

Elevation of Top of Inner PVC Casing (cap off) at 77.04 PVC
reference mark (NAVD 88 nearest 0.01'): 77.23 OUTER CASING
75.09 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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PROFESSIONAL LAND SURVEYOR'S SIGNATURE

12/7/08
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PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: 2500056891
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-12

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 45.238" Latitude: North 40° 34'32.386"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634622.67 East: 516411.39

Elevation of Top of Inner PVC Casing (cap off) at 75.63 PVC
reference mark (NAVD 88 nearest 0.01'): 75.90 OUTER CASING
75.90 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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12/5/08
DATE

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PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200900523
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-13

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 36.634" Latitude: North 40° 34'37.885"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 635179.85 East: 517074.65

Elevation of Top of Inner PVC Casing (cap off) at 66.49 PVC
reference mark (NAVD 88 nearest 0.01'): 67.23 OUTER CASING
67.23 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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PROFESSIONAL LAND SURVEYOR'S SIGNATURE 12/7/09 DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #28307
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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200900800
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-14D

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 42.901" Latitude: North 40° 34'31.386"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634521.70 East: 516591.77

Elevation of Top of Inner PVC Casing (cap off) at 76.79 PVC
reference mark (NAVD 88 nearest 0.01'): 77.92 OUTER CASING
75.29 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200906623
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-14S

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 42.852" Latitude: North 40° 34'31.451"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634528.25 East: 516595.58

Elevation of Top of Inner PVC Casing (cap off) at 77.05 PVC
reference mark (NAVD 88 nearest 0.01'): 77.91 OUTER CASING
75.08 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200900801
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-15D

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 45.129" Latitude: North 40° 34'29.865"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634367.62 East: 516420.05

Elevation of Top of Inner PVC Casing (cap off) at 77.35 PVC
reference mark (NAVD 88 nearest 0.01'): 78.17 OUTER CASING
75.26 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

AUTHENTICATION

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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200904372
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-15S

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 45.200" Latitude: North 40° 34'29.751"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634356.06 East: 516414.60

Elevation of Top of Inner PVC Casing (cap off) at 77.46 PVC
reference mark (NAVD 88 nearest 0.01'): 78.14 OUTER CASING
75.42 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200900524
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-16

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 46.883" Latitude: North 40° 34'38.417"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 635232.87 East: 516283.83

Elevation of Top of Inner PVC Casing (cap off) at 69.87 PVC
reference mark (NAVD 88 nearest 0.01'): 70.73 OUTER CASING
70.73 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200900525
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-17

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24' 51.753" Latitude: North 40° 34'35.937"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634981.53 East: 515908.37

Elevation of Top of Inner PVC Casing (cap off) at 80.14 PVC
reference mark (NAVD 88 nearest 0.01'): 81.03 OUTER CASING
81.03 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200900522
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-18

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 25'09.665" Latitude: North 40° 34'32.379"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 634620.15 East: 514526.61

Elevation of Top of Inner PVC Casing (cap off) at 67.38 PVC
reference mark (NAVD 88 nearest 0.01'): 68.24 OUTER CASING
68.24 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

AUTHENTICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

SEAL

PROFESSIONAL LAND SURVEYOR'S SIGNATURE

12/7/09
DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #28307
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200904823
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-19

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24'54.738" Latitude: North 40° 35'10.822"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 638511.33 East: 515674.60

Elevation of Top of Inner PVC Casing (cap off) at 63.78 PVC
reference mark (NAVD 88 nearest 0.01'): 64.53 OUTER CASING
64.53 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200900528
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-20

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24'49.477" Latitude: North 40° 34'57.184"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 637131.70 East: 516081.83

Elevation of Top of Inner PVC Casing (cap off) at 65.42 PVC
reference mark (NAVD 88 nearest 0.01'): 66.22 OUTER CASING
66.22 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200904831
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-21

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24'04.417" Latitude: North 40° 34'56.576"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 637069.08 East: 514929.26

Elevation of Top of Inner PVC Casing (cap off) at 58.50 PVC
reference mark (NAVD 88 nearest 0.01'): 59.17 OUTER CASING
59.17 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number: P200904824
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-22

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24'29.333" Latitude: North 40° 34'55.263"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 636938.91 East: 517636.13

Elevation of Top of Inner PVC Casing (cap off) at 68.52 PVC
reference mark (NAVD 88 nearest 0.01'): 69.28 OUTER CASING
69.28 GROUND

Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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12/7/09
DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #28307
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

MONITORING WELL CERTIFICATION FORM B - LOCATION CERTIFICATION

Name of Owner: Cornell-Dubilier Electronics

Name of Facility: Cornell-Dubilier Electronics Superfund Site

Location: 333 Hamilton Blvd. South Plainfield, Middlesex County, New Jersey

Case Number(s): NJD981557879

LAND SURVEYOR'S CERTIFICATION
Well Permit Number:
(This number must be permanently affixed to the well casing.)

Owners Well Number (As shown on application or plans): MW-23

Geographic Coordinate NAD 83 (to nearest 1/1000 of second):

Longitude: West 74° 24'38.559" Latitude: North 40° 35'16.556"

New Jersey State Plane Coordinates NAD 83 to nearest 0.01 feet:
North 639092.88 East: 516922.12

Elevation of Top of Inner PVC Casing (cap off) at 69.68 PVC
reference mark (NAVD 88 nearest 0.01'): 70.43 OUTER CASING
70.43GROUND
Source of elevation datum (benchmark, number/description and elevation/datum. If an on-site datum is used, identify here, assume datum of 100', and give approximated actual elevation.)

Significant observations and notes
NGS BENCHMARK
DESIGNATION 12 W 3, PID#AG9916, USGS QUAD PLAINFIELD (1995) N40°33'26.21313" W74°26'46.04499 ELEVATION =25.191 DATUMS NAD 1983/NAVD 1988

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PROFESSIONAL LAND SURVEYOR'S SIGNATURE

08-18-2011
DATE

DENNIS S. DIBLASIO – PROFESSIONAL LAND SURVEYOR'S #GS 02830700
PROFESSIONAL LAND SURVEYOR'S NAME AND LICENSE NUMBER
(Please print or type)

515 GROVE STREET, HADDON HEIGHTS, NJ 08035 (856)547-0505
PROFESSIONAL LAND SURVEYOR'S ADDRESS AND PHONE NUMBER

APPENDIX D

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-14

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5 inch, 6.35 cm) Triple barrel core: Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Rick Empson
HELPER: Joel Meixsell
DATUM: Ground Surface

DATE: 1/19/2009 - 3/3/2009
LOCATION: N 634521.7008 E 516591.771
GROUND ELEVATION: 75.29 MSL

Coring Start at 21 ft bgs.

SAMPLES				Quality							
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #: Depth	Rock Mass Description
								0-1	Surface Gravel		
								1-3	Dark Brown SAND trace gravel		
								5-9	Dark Brown SAND trace gravel		
								9-13	Weathered bedrock, mudstone, fissile		
								13-23	Weathered bedrock, mudstone, fissile		
CDEMDMW14023.30VOC+PCB	2/5/09	1040	VOC/PCB	50	0	Broken	N/A	23	Well weathered with fractures, rock recovered is all	1	Mudstone, reddish brown
									broken		
								24	Laminated Thickly		
CDEMDMW14024.80VOC+PCB	2/5/09	1430	VOC/PCB	84	25	Broken			Horizontal fracture at 24.55, 24.65, 24.8, 25.1, 25.25,		Mudstone
CDEMDMW14026.40VOC+PCB	2/5/09	1430	VOC/PCB						25.35, 27.0, 27.2, 27.5, 27.7, 28.1		Calcite veins frequently throughout
CDEMDMW14027.65VOC+PCB	2/5/09	1430	VOC/PCB			Good	ft		Thickly Laminated		Reddish-Brown moderate weathering
CDEMDMW14027.20PHY+TOC	2/5/09	1430	PHY					29	Broken 24-24.4	2, 24-29	
									HA at 25.5-25.9, 26-26.6		
CDEMDMW14030.60VOC+PCB	2/5/09	1610	VOC/PCB	100	78				Horizontal fracture at 29.5, 30.6, 30.9, 31.4, 31.8,	3,29-34	Massive mudstone calcite veins
CDEMDMW14033.00VOC+PCB	2/5/09	1610	VOC/PCB			Good	0.2-1.2 ft		32.4, 32.9, 33.3, 33.5		Sporadic to moderate. weathering
								34	Finely laminated, Broken 29-29.3		Reddish Brown
CDEMDMW14035.70VOC+PCB	2/5/09	934	VOC/PCB	100	39	Good	0.1-0.6 ft		Horizontal fracture at 35.5, 36, 36.7, 37.6, 37.7, 37.9, 38.4, 38.7	4, 34-39	Massive mudstone
CDEMDMW14036.90VOC+PCB	2/5/09	934	VOC/PCB								Reddish-Brown
CDEMDMW14038.50VOC+PCB	2/5/09	934	VOC/PCB					39	Sub angular fracture at 34.2-34.3, 34.5-34.7		Sporadic calcite deposits
									HA fracture at 36.7-37.95		Moderate weathering at fractures
									Broken at 37-37.5, Finely laminated		
CDEMDMW14040.80	2//6/09	1053	VOC/PCB	104	75		0.1-1.5 ft	39	Horizontal fracture at 39.6, 40, 40.15, 40.25, 40.95, 41.3, 42.8, 43.2, 43.8	5,39-44	Massive mudstone
CDEMDMW14043.20	2/6/09	1053	VOC/PCB			Good					frequent calcite deposits
									HA fracture at 40.4-40.8		Reddish-Brown
									Finely laminated throughout		Moderate weathering
CDEMDMW14044.40	2/6/09	1140	VOC/PCB	100	54		0.1-0.8 ft	44	Horizontal fracture at 44.3, 44.5, 44.65, 44.9, 45.25, 45.35, 45.7, 45.85, 46.05, 46.5, 46.6, 46.75, 47, 47.2,	6, 44-49	44-45.4 Reddish-Brown
CDEMDMW14046.50	2/6/09	1140	VOC/PCB			Good			47.55, 48.9		Massive mudstone
CDEMDMW14047.60	2/6/09	1140	VOC/PCB						HA fracture at 48.1-48.7		45.4-45.8 Dark grey / brown massive mudstone
								49	finely laminated		45.8-46.4 Light grey / brown massive mudstone
									Moderate weathering		
CDEMDMW14050.65	2/6/09	1336	VOC/PCB	98	73		0.2-1.0 ft		Horizontal fracture at 50.3, 50.6, 50.9, 52.2, 52.4, 52.55, 53.45, 53.55, 53.65		Massive mudstone
CDEMDMW14052.66	2/6/09	1336	VOC/PCB			Good				7, 49-54	Reddish-Brown
CDEMDMW14049.30	2/6/09	1336	VOC/PCB						Finely laminated		Moderate weathering
											Some calcite speckles
								54			No veins

R2-0016662

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-14

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5 inch, 6.35 cm) Triple barrel core - Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Rick Empson
HELPER: Joel Meixsell
DATUM: Ground Surface

DATE: 1/19/2009 - 3/3/2009
LOCATION: N 634521.7008 E 516591.771
GROUND ELEVATION: 75.29 MSL

Coring Start at 21 ft bgs

SAMPLES				Quality							
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW14055.00	2/6/09		VOC/PCB	100	71				Horizontal fracture at 54.3, 56.1, 56.3, 57.0, 57.5,	8, 54-59	Massive mudstone
CDEMDMW14057.00	2/6/09		VOC/PCB			Good			57.85, 58.2, 58.6, 58.9		Reddish-Brown
CDEMDMW14058.20	2/6/09		VOC/PCB						Broken at 54.4-54.7		Moderate weathering
									HA fracture at 54.7-55.3		Some calcite and speckling veins on HA fracture
								59			Finely laminated
CDEMDMW14059.80	2/6/09	1536	VOC/PCB	100	63		0.1-1.4 ft	59	Horizontal fracture at 59.4, 59.9, 60.1, 60.25. 60.4, 60	9, 59-64	Massive mudstone
CDEMDMW14061.50	2/6/09	1536	VOC/PCB			Good					Reddish-Brown
									HA fracture at 59.5-59.8		Calcite veins in some spots
									Vugs in 61-62 ft		Calcite speckling
								64	Finely laminated throughout		Moderate weathering
CDEMDMW14064.70	2/6/09	1655	VOC/PCB	100	90		0.1-1.8 ft		Horizontal fracture at 64.7, 66.5, 67.7, 67.8, 68.7		Massive mudstone
CDEMDMW14066.50	2/6/09	1655	VOC/PCB			Good			Sub fracture at 65.8-65.9		Reddish-Brown
CDEMDMW14067.8	2/6/09	1655	VOC/PCB								Calcite veins in some spots
											Some calcite speckling
								69			Finely laminated
											Moderate weathering
CDEMDMW14074.00VOC+PCB	2/25/09	911	VOC/PCB	66	6	Broken		73	Broken core with fractures every 0.05 to 0.1 feet	11, 73-78	Mudstone
CDEMDMW14075.90VOC+PCB	2/25/09	911	VOC/PCB				0.05-0.1 ft				Gray-Brown / Black
CDEMDMW14076.20PHY+TOC	2/25/09	911	PHY/TOC								Significant calcite deposits in some areas
											Highly weathered
											Fine Laminations
CDEMDMW14079.20VOC+PCB	2/25/09	1025	VOC/PCB	100	34	Good		78	Horizontal fracture at 78.15, 78.3, 78.55, 78.7, 79.15,	12, 78-83	Mudstone
CDEMDMW14080.30VOC+PCB	2/25/09	1025	VOC/PCB				0.1-0.7 ft		79.5, 79.75, 80.1, 80.2, 80.35, 80.55, 81.25, 81.95, 82.3, 82.45, 82.6, 82.7, 82.85, 82.9		Red-Brown, Calcite veins
CDEMDMW14082.50VOC+PCB	2/25/09	1025	VOC/PCB								Moderate weathering
											Fine laminations
CDEMDMW14083.70VOC+PCB	2/25/09	1133	VOC/PCB	100	24	Good		83	Horizontal fracture at 83.15, 83.4, 83.65, 84.2, 84.55,	13, 83-88	Mudstone
CDEMDMW14085.80VOC+PCB	2/25/09	1133	VOC/PCB				0.1-0.6 ft		84.9, 85.03, 85.15, 85.45, 84.9, 85.03, 85.15, 85.45, 85.95, 86.15, 86.3, 86.65, 86.85, 87.2, 87.5, 87.8		Red-Brown, Calcite veins
											Moderate weathering
											Fine Laminations
CDEMDMW14084.00VOC+PCB	2/25/09	1231	VOC/PCB	100	76	Good		88	Horizontal fracture at 88.25, 88.45, 88.95, 89.1, 89.7,	14, 88-93	Mudstone
CDEMDMW14090.50VOC+PCB	2/25/09	1231	VOC/PCB				0.1-1.2 ft		90.95, 90.7, 91.0, 91.2, 91.7		Red-Brown, Calcite veins
CDEMDMW14091.80VOC+PCB	2/25/09	1231	VOC/PCB								Moderate weathering
								93			Fine Laminations
CDEMDMW14094.80VOC+PCB	2/25/09	1422	VOC/PCB	100	91	Good		93	Horizontal fracture 94.3, 94.75, 95.2, 96.0, 96.3,	15, 93-98	Mudstone
CDEMDMW14096.70VOC+PCB	2/25/09	1422	VOC/PCB				0.15-1.3 ft		96.65, 97.8		Red-Brown, scattered calcite
CDEMDMW14093.30PHY+TOC	2/25/09	1422	PYH/TOC								Fine laminations
									Page 2 of 6		Moderate weathering

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-14

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Rick Empson
HELPER: Joel Meixsell
DATUM: Ground Surface

DATE: 1/19/2009 - 3/3/2009
LOCATION: N 634521.7008 E 516591.771
GROUND ELEVATION: 75.29 MSL

SAMPLES				Quality							Coring Start at 21 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW14099.00VOC+PCB	2/25/09	1522	VOC/PCB	100	###	Good		98	Horizontal fracture at 99.05, 101.3	16, 98-103	Mudstone - massive
CDEMDMW14101.00VOC+PCB	2/25/09	1522	VOC/PCB				0.5-2.0 ft		High angle fracture at 101-101.3		Red-Brown, scattered calcite
											Fine laminations
								103			Moderate weathering
CDEMDMW14104.10VOC+PCB	2/25/09	1615	VOC/PCB	100	###	Good			Horizontal fracture at 104.15, 105.05, 105.55	17, 103-108	Mudstone - massive
CDEMDMW14105.60VOC+PCB	2/25/09	1615	VOC/PCB				0.5-2.2 ft				Red-Brown, scattered calcite
CDEMDMW14106.60VOC+PCB	2/25/09	1615	VOC/PCB								Fine lamination
											Moderate weathering
CDEMDMW14108.60VOC+PCB	2/25/09	1708	VOC/PCB	100	93			108	Horizontal fracture at 108.7, 109.95, 110.5, 111.13, 111.8, 112.2	18, 108-113	Mudstone - massive
CDEMDMW14111.50VOC+PCB	2/25/09	1708	VOC/PCB								Red-Brown, scattered calcite
CDEMDMW14110.00PHY+TOC	2/25/09	1708	VOC/PCB								Fine Lamination
								113			Moderate weathering
CDEMDMW14114.20VOC+PCB	2/26/09	954	VOC/PCB	100	97	Good		113	Horizontal fracture at 113.35, 114.2, 115.7, 116.45, 117.55	19, 113-118	Mudstone - massive
CDEMDMW14115.70VOC+PCB	2/26/09	954	VOC/PCB				0.5-2.2 ft				Calcite speckling, scattered
CDEMDMW14117.60VOC+PCB	2/26/09	954	VOC/PCB								Fine to low lamination
											Low weathering
CDEMDMW14118.50VOC+PCB	2/26/09	1059	VOC/PCB	100	82	Good		118	Horizontal fracture at 118.5, 119.85, 121.25, 122.05, 122.75	20, 118-123	Mudstone - massive
CDEMDMW14120.50VOC+PCB	2/26/09	1059	VOC/PCB				0.4-1.5 ft				Calcite speckling, scattered
CDEMDMW14122.40VOC+PCB	2/26/09	1059	VOC/PCB						Sub angular fracture at 120.35-120.55, 120.7-120.80		Red-Brown
											Fine to no lamination
									High angle fracture at 122.2-122.4		Low weathering
								123			Grey/Black at tip
CDEMDMW14124.90VOC+PCB	2/26/09	1150	VOC/PCB	100	83	Good			Horizontal fracture at 124.8, 125.6, 126.2, 126.25, 26.8, 126.9, 127.1, 127.35	21, 123-128	Gray/Black 198-110.5
CDEMDMW14127.30VOC+PCB	2/26/09	1150	VOC/PCB				0.1-2.0 ft				Red Brown rest of core
									Sub angular fracture at 126.25-126.4		Calcite speckling, veins
											Fine lamination
											Moderate weathering
CDEMDMW14128.40VOC+PCB	2/26/09	1322	VOC/PCB	100	83			128	Horizontal fracture at 128.2, 128.5, 128.6, 128.65, 129.45, 129.55, 130.15, 130.55, 131.85, 132.40	22, 128-133	Red-Brown
CDEMDMW14129.40VOC+PCB	2/26/09	1322	VOC/PCB								Calcite speckling
CDEMDMW14131.80VOC+PCB	2/26/09	1322	VOC/PCB								Fine lamination
CDEMDMW14131.00PHY+TOC	2/26/09	1322	PHY/TOC								Moderate weathering
CDEMDMW14134.00VOC+PCB	2/26/09	1406	VOC/PCB	100	93	Good		133	Horizontal fracture at 133.8, 133.95, 135.25, 136.9, 137.85	23, 133-138	Mudstone
CDEMDMW14135.30VOC+PCB	2/26/09	1406	VOC/PCB				0.5-1.8 ft				Red-Brown
CDEMDMW14136.90VOC+PCB	2/26/09	1406	VOC/PCB								Calcite vein, speckling
											Fine lamination
											Moderate weathering

R2-0016664

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-14

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Rick Empson
HELPER: Joel Meixsell
DATUM: Ground Surface

DATE: 1/19/2009 - 3/3/2009
LOCATION: N 634521.7008 E 516591.771
GROUND ELEVATION: 75.29 MSL

SAMPLES				Quality							
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Coring Start at 21 ft bgs. Rock Mass Description
CDEMDMW14138.90VOC+PCB	2/26/09	1450	VOC/PCB	100	95	Good		138	Horizontal fracture at 138.75, 140.6, 140.8, 141.25,	24, 138-143	Mudstone - massive
							0.1-2.0		141.75, 141.91, 142.4		
CDEMDMW14141.90VOC+PCB	2/26/09	1450	VOC/PCB				ft				Red-Brown
											Calcite speckling
									Sand in matrix around fracture at 141.9 feet		Fine lamination
											Moderate weathering
CDEMDMW14143.20VOC+PCB	2/26/09	1531	VOC/PCB	100	97	Good		143	Horizontal fracture at 143.35, 145.1, 145.4, 145.6,	25, 143-148	Mudstone - massive
							0.2-2.0		146.2, 146.65, 147.45		
CDEMDMW14145.40VOC+PCB	2/26/09	1531	VOC/PCB				ft				Red-Brown
CDEMDMW14146.60VOC+PCB	2/26/09	1531	VOC/PCB								Calcite speckling
											Moderate weathering
											Fine to no lamination
CDEMDMW14150.10VOC+PCB	2/26/09	1621	VOC/PCB	100	90	Good		148	Horizontal fracture at 149.85, 149.95, 151.2, 151.6, 15	26, 148-153	Mudstone - massive
							0.1-2.0				
CDEMDMW14152.80VOC+PCB	2/26/09	1621	VOC/PCB				ft				calcite speckling
CDEMDMW14151.10PHY+TOC	2/26/09	1621	THY/TOC								Red-Brown
									Clay in last fracture at 152.85		Moderate weathering
								153			Fine to no lamination
CDEMDMW14154.00VOC+PCB	2/26/09	1704	VOC/PCB	100	95	Good		153	Horizontal fracture at 154.05, 155.05, 158.7,	27, 153-158	Mudstone - massive
							0.5-2.2				
CDEMDMW14155.00VOC+PCB	2/26/09	1704	VOC/PCB				ft				Calcite speckling
CDEMDMW14157.70VOC+PCB	2/26/09	1704	VOC/PCB								Red-Brown
											Moderate weathering
											Fine to no lamination
CDEMDMW14159.20VOC+PCB	2/27/09	905	VOC/PCB	100	95	Good		158	Horizontal Fracture at 159.2, 159.5, 160.4, 161.1,	28, 158-163	Mudstone - massive
							0.3-1.9		162.4, 162.85		
CDEMDMW14161.10VOC+PCB	2/27/09	905	VOC/PCB				ft				Calcite speckling
											Red-Brown
											Moderate weathering
											Fine to no lamination
CDEMDMW14164.30VOC+PCB	2/27/09	1001	VOC/PCB	98	95	Good		163	Horizontal fracture at 163.35, 164.0, 164.3, 165.35,	29, 163-168	Mudstone - massive
CDEMDMW14165.50VOC+PCB	2/27/09	1001	VOC/PCB				0.1-		165.95, 167.0, 167.35		Calcite speckling
CDEMDMW14167.00VOC+PCB	2/27/09	1001	VOC/PCB								Red-Brown
		1001	VOC/PCB								Moderate weathering
											Fine to no lamination
CDEMDMW14168.70VOC+PCB	2/27/09	1106	VOC/PCB	100	95	Good		168	Horizontal fracture at 168.55, 168.8, 168.95, 169.7,	30, 168-173	Mudstone - massive
CDEMDMW14170.50VOC+PCB	2/27/09	1106	VOC/PCB				0.1-1.1		170.75, 171.5, 173.75		Calcite vein, speckles
CDEMDMW14171.80PHY+TOC	2/27/09	1106	PHY/TOC								Vugs at fracture
									Sub angular fracture at 169.5-169.7		Moderate weathering
								173			Fine lamination

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-14

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Rick Empson
HELPER: Joel Meixsell
DATUM: Ground Surface

DATE: 1/19/2009 - 3/3/2009
LOCATION: N 634521.7008 E 516591.771
GROUND ELEVATION: 75.29 MSL

SAMPLES				Quality							Coring Start at 21 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW14174.50VOC+PCB	2/27/09	1210	VOC/PCB	98	50	Good		173	Horizontal Fracture at 173.7, 174.25, 174.45, 174.7,	31, 173-178	Mudstone
							0.1-1.0		175.85, 176.8, 177.4		
CDEMDMW14175.50VOC+PCB	2/27/09	1210	VOC/PCB				ft				Red-Brown
CDEMDMW14177.40VOC+PCB	2/27/09	1210	VOC/PCB						Horizontal Angle fracture at 175.1-175.65		Moderate weathering
											Calcite speckling
								178			Fine to no lamination
											Vugs scattered
CDEMDMW14180.20VOC+PCB	2/27/09	1342	VOC/PCB	100	95	Good		178	Horizontal fracture at 180.05, 181.45, 181.65	32, 178-183	Mudstone
							0.3-2.3				
CDEMDMW14181.80VOC+PCB	2/27/09	1342	VOC/PCB				ft				Red-Brown
											Moderate weathering
											Calcite speckling
											Some vugs at fracture
											Fine to no lamination
CDEMDMW14184.10VOC+PCB	2/27/09	1434	VOC/PCB	98	90	Good		183	Horizontal fracture at 183.9, 184.1, 184.25, 184.45,	33, 183-188	Mudstone
CDEMDMW14185.70VOC+PCB	2/27/09	1434	VOC/PCB				0.1-1.6		184.75, 185.2. 185.55, 185.7, 186.75		Red-Brown
CDEMDMW14186.80VOC+PCB	2/27/09	1434	VOC/PCB								Moderate weathering
											Calcite speckling
											Vugs at fractures
								188			Fine lamination
CDEMDMW14188.80	3/2/09	935	VOC/PCB	100	70	Good		188	Horizontal fracture at 188.8, 190.0, 190.15, 190.55,	34, 188-193	Mudstone
							0.1-2.0		190.8, 191.15, 192.9		
CDEMDMW14190.60	3/2/09	935	VOC/PCB				ft				Red-Brown
CDEMDMW14192.00	3/2/09	935	PHY/TOC								Moderate Weathering
											Infrequent Calcite deposits
											Some Vugging
CDEMDMW14193.60	3/2/09	1030	VOC/PCB	100	75	Good		193	Horizontal fracture at 193.15, 193.55, 193.65, 194.35,	35, 193-198	Fine lamination
							0.1-2.0		196.0, 197.1, 197.2, 197.4, 197.8		
CDEMDMW14196.20	3/2/09	1030	VOC/PCB				ft				Mudstone
CDEMDMW14197.40	3/2/09	1030	VOC/PCB						Sub angle fracture at 196.6-196.8		Red-Brown
									Clay seem at 193.3		Moderate Weathering
											Infrequent scattered calcite, vugs
											Fine lamination
CDEMDMW14	3/12/09	1140	VOC/PCB	100	62	Good		198	Horizontal fracture at 199.2, 200.9, 201.1, 201.55,	36, 198-203	Mudstone
							0.1-2.0		201.7, 202.25, 202.85		
CDEMDMW14	3/12/09	1140	VOC/PCB				ft				Red-Brown
									Broken with clay at 198.3-199.0		Moderate Weathering
											Scattered calcite and vugs
											Fine lamination

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-14

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Rick Empson
HELPER: Joel Meixsell
DATUM: Ground Surface

DATE: 1/19/2009 - 3/3/2009
LOCATION: N 634521.7008 E 516591.771
GROUND ELEVATION: 75.29 MSL

SAMPLES				Quality							Coring Start at 21 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameters	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW14103.60	3/2/09	1335	VOC/PCB	100	80	Good		203	Horizontal fracture at 203.1, 203.25, 203.6, 204.7,	37, 203-208	Mudstone
							0.1-2.0		204.95, 206.6		
CDEMDMW14205.00	3/2/09	1335	VOC/PCB				ft				Red-Brown
CDEMDMW14206.60	3/2/09	1335	VOC/PCB								Moderate Weathering
											Scattered vugs and calcite
								208			Fine lamination
CDEMDMW14208.50	3/2/09	1431	VOC/PCB	100	87	Good		208	Horizontal fracture at 208.6, 209.35, 209.5, 209.65,	38, 208-213	Mudstone-massive
							0.15-		210.15, 210.3		
CDEMDMW14210.00	3/2/09	1431	VOC/PCB				2.4 ft				Red-Brown
CDEMDMW14211.40	3/2/09	1431	PHY/TOC						Some clay in fractures		Scattered calcite, vugging
											Moderate weathering
											Fine lamination
CDEMDMW14214.60	312	1527	VOC/PCB	100	78	Good		213	Horizontal fracture at 214.7, 215.3, 215.75, 216.05,	39, 213-218	Mudstone-massive
							0.1-1.8		216.75		
CDEMDMW14215.70	312	1527	VOC/PCB				ft				Red-Brown
CDEMDMW14216.90	312	1527	VOC/PCB								Scattered calcite, big vugs at fractures
											Moderate to high weathering
											Fine lamination
CDEMDMW14219.90	313	923	VOC/PCB	100	###	Good		218	Horizontal fracture at 219.9, 220.9, 221.85, 222.6	40, 218-223	Mudstone-massive
							0.1-2.0				
CDEMDMW14221.90	313	923	VOC/PCB				ft				Red-Brown
											Scattered calcte, vugs
											Moderate weathering
											Fine lamination
									Horizontal fracture at 223.55, 223.75, 223.9, 224.2,		
CDEMDMW14223.60	3/3/09	1033	VOC/PCB	100	50	Good		223	224.95, 225.0, 225.75, 226.15, 226.4, 227.2, 227.6	41, 223-228	Mudstone-massive
							0.1-1.0				
CDEMDMW14225.70	3/3/09	1033	VOC/PCB				ft				Red-Brown
CDEMDMW14117.20	3/3/09	1033	VOC/PCB								Scattered calcite, vugs
									Sub angle fracture at 223.3-223.4, 225.9-226.05		Fine lamination
								228			Moderate to highly weathered
CDEMDMW14228.90	3/3/09	1152	VOC/PCB	96	70	Good		228	Horizontal fracture at 228.55, 228.85, 229.3, 229.4,	42, 228-233	Mudstone-massive
							0.1-1.6		229.6, 230.8, 231.2, 231.4, 231.55, 231.65		
CDEMDMW14231.30	3/3/09	1152	VOC/PCB				ft				Scattered calcite, vugs
CDEMDMW14232.50	3/3/09	1152	PHY/TOC								Fine lamination
								233			Moderate weathering

Notes:
Total Recovery = (Core length/core run)*100. RQD = ((sum lengths >= 4-inch)/core run)*100. Discontinuity description = type, depth & dip angle.
Sample Parameters: VOC, PCB, PHY (Physical), TOC (Total organic carbon), COX (Rock/chemical oxidation demand)

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-16

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer, A. Wood, J. DeKoskie

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 1/21/2009 - 2/2/2009
LOCATION: N:635232.8669 E:516283.8339
GROUND ELEVATION: 70.73 MSL

SAMPLES				Quality		Rock Core					Coring Start at 21 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW16022.50SVOC+PCB	1/21/09	1120	PCB/VOC	2	0	Broken	--	21	Highly fractured	1, 21-24	Horizontal to sub horizontal fracture
								24	Mudstone, laminated, Reddish-Brown, moderate-well		
									weathered		
CDEMDMW16025.0VOC+PCB	1/21/09	1240	PCB/VOC	2	0	Broken	--	24	Highly fractured, moderate-well weathered	2, 24-29	Mudstone
CDEMDMW16027.0VOC+PCB	1/21/09	1240	PCB/VOC					29			Reddish-Brown
									Horizontal to sub horizontal fractures		Laminated
				0	0			32	No Recovery	3, 29-34	
									4" casing		
									Coring at 1 ft. per 5 minutes		
CDEMDMW16035.00VOC+PCB	1/22/09	1350	PCB/VOC	0-7 ft	0	Broken	--	34	No recovery	4, 34-36	Mudstone
CDEMDMW16034.00TOC	1/22/09	1350	TOC					36	Highly fractured, moderate to well weathered,		Reddish-Brown
									horizontal to sub horizontal fractures		Laminated
								41	No recovery	5, 36-41	
CDEMDMW16041.60VOC+PCB	1/22/09	1600	PCB/VOC	95	75	Good		44	edges	6, 41-44	Mudstone
CDEMDMW16042.50VOC+PCB	1/22/09	1600	PCB/VOC				0.2-1 ft	44	Fractures at 41.6, 41.5, 42.2, 42.75, 42.8, 42.85		Massive infrequent
CDEMDMW16043.50PHY	1/22/09	1600	PHY								Calcite deposits
											Reddish-Brown
CDEMDMW16044.80VOC+PCB	1/23/09	910	PCB/VOC	90	70	Good		44	Horizontal fracture at 44.7, 44.8, 45.55, 45.75, 46.05,	7, 44-49	Mudstone, massive
CDEMDMW16046.60VOC+PCB	1/23/09	910	PCB/VOC				0.2-1 ft		46.6, 47.0, 47.3, 47.5, 47.55, 47.75		Infrequent calcite deposits
CDEMDMW16046.20VOC+PCB	1/23/09	910	PCB/VOC						High angle fracture at 47.7-49 (bottom), Moderate		Reddish-Brown
									weathering, rounded edges, some clay in fractures		No water usage, stable
CDEMDMW16050.0VOC+PCB	1/23/09	1130	PCB/VOC	96	63	Good		49	High angle fracture at 49-49.4, Horizontal fracture at	8, 49-54	Mudstone, massive
CDEMDMW16052.0VOC+PCB	1/23/09	1130	PCB/VOC				0.2-1 ft		49.95, 49.55, 50.0, 50.4, 50.5, 50.8, 51.2, 51.5, 53.4		Infrequent calcite deposits
								54	Broken zone 1 inch at 52.0		Reddish-Brown
									Moderate weathering		
CDEMDMW016054.30PCB+VOC	1/23/09	1448	PCB/VOC	100	92	Good		54	Horizontal fracture at 54.3, 55.3, 56.2, 56.5, 57.1,	9, 54-59	Massive mudstone
CDEMDMW016055.90PCB+VOC	1/23/09	1448	PCB/VOC				0.2-1 ft		57.5, 58.1		Infrequent calcite deposits
CDEMDMW016058.20PCB+VOC	1/23/09	1448	PCB/VOC						High angle fracture at 56.5-57.0		Vugs at core end with calcite
									Moderate weathering		Reddish-Brown
CDEMDMW016060.40VOC+PCB	1/23/09	1611	PCB/VOC	98	76	Good		59	61.3, 61.65, 62.0, 62.2,	10, 59-64	Massive mudstone
CDEMDMW016062.00VOC+PCB	1/23/09	1611	PCB/VOC				0.2-1 ft		62.5, 63.2		Infrequent calcite deposits and vugs
CDEMDMW016063.10PHY	1/23/09	1611	PHY					64	Moderate weathering		Possible clay in fractures
CDEMDMW016063.10TOC	1/23/09	1611	TOC						High angle fracture at 63.4-64.0		Reddish-Brown
									Broken at 59.2		
CDEMDMW016064.55VOC+PCB	1/26/09	915	VOC/PCB	5-5	3-2-5	Good		69	Moderate weathering	11, 64-69	Massive mudstone
CDEMDMW016066.60VOC+PCB	1/26/09	915	VOC/PCB				0.2-1 ft		High angle fracture at 65-69		Infrequent calcite deposits and vugs with calcite
									Horizontal fracture at 64.6, 65.0, 65.55, 65.65, 65.77,		
CDEMDMW016068.00VOC+PCB	1/26/09	915	VOC/PCB						66.0, 66.1, 66.25, 66.6, 66.9, 67.05, 67.65, 67.8, 68,		crystals weathered out
									68.5		Reddish-Brown
									68.5-69 calcite vugs weathered out		
									Continuous high angle fracture at 63-69		

R2-0016668

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-16

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core Vertical
HYDROGEOLOGIST: C. Hofer, A. Wood, J. DeKoskie

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Morrick
DATUM: Ground Surface

DATE: 1/21/2009 - 2/2/2009
LOCATION: N 635232.8669 E 516283.8339
GROUND ELEVATION: 70.73 MSL

Coring Start at 21 ft bgs

SAMPLES				Quality		Rock Core					
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW016070.10VOC/PCB	1/26/09	1125	VOC/PCB	91	47	Good		69	High angle fracture at 70.4, 71.3	12, 69-74	Massive mudstone
CDEMDMW016072.20VOC/PCB	1/26/09	1125	VOC/PCB				0.1-1 ft		Horizontal fracture at 69.8, 70.0, 70.1, 70.8, 71.2, 71.35, 71.6, 71.75, 71.9, 72.2, 72.7, 73.1		Infrequent calcite deposits
CDEMDMW0160FD001VOC	1/26/09	1125	VOC/PCB								Some vugs
DUP									Broken at 70.5-70.6		Reddish-Brown
									Moderate weathering		
CDEMDMW016074.30VOC/PCB	1/26/09	1325	VOC/PCB	100	30	Good		74	Horizontal fractures at 74.3, 74.4, 74.6, 74.8, 75.2, 75.6, 75.9, 77.3, 78.0	13, 74-79	Massive mudstone
CDEMDMW016075.90VOC/PCB	1/26/09	1325	VOC/PCB				0.1-1 ft		High angle fracture at 75.6-75.8, 78-79.0		Infrequent clay 78-79
CDEMDMW016078.0VOC/PCB	1/26/09	1325	VOC/PCB						Broken with clay, highly weathered at 76.5-76.7, 78-79		Infrequent calcite veins
									Elsewhere moderately weathered		Reddish-Brown
CDEMDMW016079.90VOC/PCB	1/26/09	1605	VOC/PCB	98	76	Good		79	Horizontal fracture at 79.4, 79.5, 79.7, 80.0, 81.25, 81.5, 82.0, 82.4, 83.2,	14, 79-84	Massive mudstone
CDEMDMW016081.00VOC/PCB	1/26/09	1605	VOC/PCB				0.1-1 ft		83.4		Infrequent clay deposits
CDEMDMW016083.20PHYS	1/26/09	1605	PHYS						Moderate weathering		Reddish-Brown
CDEMDMW01684.55VOC/PCB	1/26/09		VOC/PCB	100	55	Good		84	Horizontal fracture at 84.5, 84.9, 85.2, 85.55, 85.7, 85.8, 85.9, 86.0, 86.1, 86.3, 86.7, 87.1, 87.5, 88.4	15, 84-89	Massive mudstone
CDEMDMW01686.10VOC/PCB	1/26/09		VOC/PCB				0.1-1.4				Infrequent calcite deposits
CDEMDMW01687.80VOC/PCB	1/26/09		VOC/PCB								Reddish-Brown
											Vugs of calcite
CDEMDMW016090.20VOC+PCB	1/27/09	910	VOC/PCB	100	66	Good		89	Horizontal fracture at 89.1, 89.55, 89.9, 90.1, 91.1, 91.2, 91.7, 92.65, 92.85, 93.3, 93.7	16, 89-94	Massive mudstone
CDEMDMW016092.70VOC+PCB	1/27/09	910	VOC/PCB				0.1-1.3 ft				Infrequent calcite deposits
									Moderate weathering		Reddish-Brown
									No high angle fractures, calcite coating at 89.0-89.1		Vugs at 89.9-90, 93.6-93.7 with clay deposits
									Losing water on run		7 ? Per foot last 2 feet
CDEMDMW016094.30VOC+PCB	1/27/09	1015	VOC/PCB	96	50	Good		94	Horizontal fractures at 94.3-94.9, 95.5, 95.8, 96.1, 96.3, 96.6, 96.9, 97.2, 97.5, 98.4	17, 94-99	Massive mudstone
CDEMDMW016096.10VOC+PCB	1/27/09	1015	VOC/PCB				0.1-3 ft				Infrequent calcite deposits
CDEMDWM016098.40VOC+PCB	1/27/09	1015	VOC/PCB						No high angle fractures		Reddish-Brown
									Broken at 94.3-94.6 with clay, moderate weathering		

R2-0016669

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-16

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core, Vertical
HYDROGEOLOGIST: C. Hofer, A. Wood, J. DeKoskie

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Morrick
DATUM: Ground Surface

DATE: 1/21/2009 - 2/2/2009
LOCATION: N 635232.8669 E 516283.8339
GROUND ELEVATION: 70.73 MSL

Coring Start at 21 ft bgs

SAMPLES				Quality		Rock Core					
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW016099.80	1/27/09	1130	PCB/VOC	100	72	Good	0.1-1.3 ft	99	Horizontal fracture at 99.2, 99.35, 99.8, 100.75, 100.85, 101.20, 101.8, 102.55, 102.8, 103.1, 103.7	18, 99-104	Massive mudstone
CDEMDMW016101.90	1/27/09	1130	PCB/VOC								Infrequent calcite deposits and veins
CDEMDMW016103.10	1/27/09	1130	PHY						Finely laminated, some bioturbation		Reddish-Brown
CDEMDMW016103.10	1/27/09	1130	TOC								
CDEMDMW016104.70PCB+VOC	1/27/09	1245	PCB/VOC	100	77	Good	0.1-1.4 ft	104	Horizontal fractures at 104.7, 105.5, 106.15, 106.35, 106.55, 106.8, 107.35, 197.45, 108.55, 108.8	19, 104-109	Massive mudstone
CDEMDMW016106.10PCB+VOC	1/27/09	1245	PCB/VOC								Infrequent calcite deposits
CDEMDMW107.10PCB+VOC	1/27/09	1245	PCB/VOC					109	Finely laminated		Reddish-Brown
CDEMDMW16110.2PCB+VOC (Dup)	1/27/09	1433	PCB/VOC	100	63	Good	0.1-0.8 ft	109	Horizontal fracture at 109.1, 109.2, 109.45, 109.6, 110.15, 110.3, 110.55, 110.8, 111.0, 111.3, 111.6, 111.8, 111.9, 112.8, 113.3, 113.8	20, 109-114	Massive mudstone
CDEMDMW16112.0PCB+VOC	1/27/09	1433	PCB/VOC								Infrequent calcite deposits
									Vugs and moderate weathering		Reddish-Brown
CDEMDMW16114.4VOC+PCB	1/27/09	1532	PCB/VOC	100	75	Good	0.1-0.8 ft	114	Horizontal fracture at 114.4, 115.5, 115.7, 116.5, 117.4, 117.5, 117.75, 118.2, 118.6, 118.8	21, 114-119	Massive mudstone
CDEMDMW16115.7VOC+PCB	1/27/09	1532	PCB/VOC								Infrequent calcite deposits
CDEMDMW16117.4VOC+PCB	1/27/09	1532	PCB/VOC						Horizontal angle fracture at 115-115.2		Reddish-Brown
									Finely laminated		
CDEMDMW16119.70VOC+PCB	1/27/09		PCB/VOC	100	92	Good	0.1-1.2 ft	119	Horizontal fracture at 119.7, 122.5	22, 119-124	Massive mudstone
CDEMDMW16122.50VOC+PCB	1/27/09		PCB/VOC						Finely laminated		Infrequent calcite deposits
											Reddish-Brown
CDEMDMW16125.5VOC+PCB	1/28/09	1022	PCB/VOC	100	75	Good	0.1-1.3 ft	124	Horizontal fracture at 125.5, 125.7, 126.2, 126.4, 126.7, 126.9, 127.0, 127.1, 127.2, 127.6, 128.0, 128.4, 128.7	23, 124-129	Massive mudstone
CDEMDMW16126.7VOC+PCB	1/28/09	1022	PCB/VOC								Infrequent calcite deposits
CDEMDMW16128.4VOC+PCB	1/28/09	1022	PCB/VOC					129	Finely laminated		Reddish-Brown
CDEMDMW16130.0PCB+VOC	1/28/09	1217	VOC/PCB	100	80	Good	0.1-1.3 ft	129	Horizontal fracture at 129.2, 130.4, 130.8, 131.8, 133.2	24, 129-134	Massive mudstone
CDEMDMW16131.90PCB+VOC	1/28/09	1217	VOC/PCB						Finely laminated throughout		Infrequent calcite deposits
CDEMDMW16129.3PHY	1/28/09	1217	PHY/TOC						Broken at 130.0-130.1, 132.0-132.2		Dark brown/red

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-16

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer, A. Wood, J. DeKoskie

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Morrick
DATUM: Ground Surface

DATE: 1/21/2009 - 2/2/2009
LOCATION: N 635232.8669 E 516283.8339
GROUND ELEVATION: 70.73 MSL

Coring Start at 21 ft bgs

SAMPLES				Quality		Rock Core					
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW16134.70	1/28/09	1422	PCB/VOC	98	100	Good	0.1-1.3 ft	134	Horizontal fracture at 134.65, 135.6, 136.9. 138.45	25, 134-139	Massive mudstone
CDEMDMW16136.90	1/28/09	1422	PCB/VOC						High angle fracture at 134.65-135.0, 138.75-138.9		Infrequent calcite deposits
CDEMDMW16138.40	1/28/09	1422	PCB/VOC						Finely laminated		Dark brown/red
CDEMDMW16140.1	1/28/09	1550	PCB/VOC	100	69			139	Horizontal fracture at 139.3, 139.8, 140.1, 140.2, 140.25, 141.1, 141.3, 141.6	26, 139-144	Massive, mudstone
CDEMDMW16142.2	1/28/09	1550	PCB/VOC								Infrequent calcite deposits
CDEMDMW16143.0	1/28/09	1550	PCB/VOC						Vugs at 140-140.3		Dark brown/red
								144	No more lamination available		
CDEMDMW16144.30	1/28/09	1653	VOC+PCB	98	53	Good	0.1-1.2 ft	144	High angle fracture at 144.0-144.3	27, 144-149	Mudstone
CDEMDMW16146.10	1/28/09	1654	VOC+PCB						Horizontal fracture at 144.95, 145.0, 145.2, 146.1, 146.9, 148.4		Slight weathering at 144.9-145.1
CDEMDMW16148.40	1/28/09	1655	VOC+PCB								Massive 145.1-147
									High angle fracture at 148.5-148.6		Dark brown/red
CDEMDMW16149.70 (Dup)	1/29/09	843	VOC+PCB	100	87	Good	0.1-1.2 ft	149	Horizontal fracture at 149.2, 149.7, 150.9, 151.7, 152.8	28, 149-154	Mudstone
CDEMDMW16151.70	1/29/09	843	VOC+PCB						High angle fracture at 150.5-150.7, 151.1-151.3		Massive throughout
									Broken with horizontal fracture at 153.4-153.7		Dark brown
											No lamination
											Sparse calcite deposits
CDEMDMW16155.60	1/29/09	940	VOC+PCB	98	60	Good	0.1-1.3 ft	154	Horizontal fracture at 155.55, 155.65, 155.8, 156.15, 156.23, 156.4, 156.7, 156.9, 157.15, 157.8, 158.1, 158.5	29, 154-159	Mudstone, massive
CDEMDMW16156.20	1/29/09	940	VOC+PCB								Dark brown
CDEMDMW16158.00	1/29/09	940	VOC+PCB						High angle fracture at 157.4-157.7		Sparse small calcite deposits
CDEMDW16160.4	1/29/09	1040	VOC+PCB	100	80	Good	0.1-1.4 ft	159	Horizontal fracture at 159.1, 159.2, 160.1, 161.4, 161.6, 161.9, 163.0, 163.8, 163.9	30, 159-164	Massive mudstone
CDEMDWM16161.7	1/29/09	1040	VOC+PCB								Dark brown
CDEMDMW16162.8	1/29/09	1040	VOC+PCB						No high angle fractures		
CDEMDMW16164.30	1/29/09	1145	VOC/PCB	98	65	Good	0.1-1.2 ft	164	Horizontal fracture at 165.2, 168.4, 168.6	31, 164-169	Massive, mudstone
CDEMDMW16166.30	1/29/09	1145	VOC/PCB						High angle fracture at 164.0-164.5, 164.8, 169.0		Very little calcite throughout
CDEMDMW16167.60	1/29/09	1145	VOC/PCB						Stress fractures at 166.0-166.4, 6 total low angle fractures		Dark brown
									Finely laminated		

R2-0016671

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-16

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core, Vertical
HYDROGEOLOGIST: C. Hofer, A. Wood, J. DeKoskie

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Morrick
DATUM: Ground Surface

DATE: 1/21/2009 - 2/2/2009
LOCATION: N 635232.8669 E 516283.8339
GROUND ELEVATION: 70.73 MSL

Coring Start at 21 ft bgs

SAMPLES				Quality		Rock Core					
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW16170.30	1/29/09	1330	VOC/PCB	100	100	Good	0.2-1.6 ft	169	Horizontal fracture at 170.4, 172.35, 173.75, 173.9	32, 169-174	Massive, mudstone
CDEMDMW16172.30	1/29/09	1330	VOC/PCB						No lamination		Very little calcite
											Dark brown
CDEMDMW16174.35	1/29/09	1430	VOC/PCB	100	93			174	Horizontal fracture at 174.3, 174.5, 175.15, 175.85, 176.5, 176.9, 178.1	33, 174-179	Massive mudstone
CDEMDMW16175.90	1/29/09	1430	VOC/PCB						High angle calcite vein at 178.1-179		Infrequent calcite veins
CDEMDMW16177.90	1/29/09	1430	VOC/PCB						Clay at 174.3-174.35		Dark brown
CDEMDMW16	1/29/09		VOC/PCB	100	100			179	Horizontal fracture at 179.5, 179.7, 182.5	34, 179-184	Massive mudstone
CDEMDMW16	1/29/09		VOC/PCB						Finely laminated		Dark brown
CDEMDMW16	1/29/09		VOC/PCB						Weathering non-existent		Spotty/speckling of calcite throughout
CDEMDMW16183.4	1/29/09		TOC					184			
CDEMDMW16184.3	1/29/09	1655	VOC/PCB	100	93	Good	0.1-1.1 ft	184	Horizontal fracture at 184.35, 185.45, 186.0, 186.5, 186.9	35, 184-189	Massive
CDEMDMW16186	1/29/09	1656	VOC/PCB						High angle fracture 187.55-187.75		Lamination observed
CDEMDMW187.8	1/29/09	1657	VOC/PCB						Horizontal fracture at 187.8, 188.5		Dark brown
											Calcite veins, vertical at 187-187.5-189
CDEMDMW16190.10	1/29/09	850	VOC/PCB	100	97	Good	0.1-1.1 ft	189	Horizontal fracture at 189.2, 190.1, 190.6, 191.1, 191.8, 192.3, 193.5	36, 189-194	Massive mudstone
CDEMDMW16191.80	1/29/09	850	VOC/PCB						Finely laminated, cross bedding		Dark brown
									Very little weathering at fractures		Calcite interspersed speckling
CDEMDMW16194.9	1/30/09	945	VOC/PCB	99	100	Good	0.1-1.2 ft	194	Horizontal fracture at 195.1, 196.8, 197.0, 198.1, 198.5	37, 194-199	Massive mudstone
CDEMDMW16197	1/30/09	945	VOC/PCB						Cross bedding		Incongruous calcite veins
CDEMDMW16198.5	1/30/09	945	VOC/PCB						Moderate weathering		Dark brown

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-16

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JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core Vertical
HYDROGEOLOGIST: C. Hofer, A. Wood, J. DeKoskie

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Morrick
DATUM: Ground Surface

DATE: 1/21/2009 - 2/2/2009
LOCATION: N 635232.8669 E 516283.8339
GROUND ELEVATION: 70.73 MSL

SAMPLES				Quality		Rock Core					Coring Start at 21 ft bgs
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW16200.00	1/30/09		VOC/PCB	80	52			199	Horizontal fracture at 199.9, 200, 201.1, 201.65, 202.1	38, 194-204	Massive, mudstone
CDEMDMW16202.10	1/30/09		VOC/PCB						Vertical-high angle fracture at 200-200.6		Calcite banding and webbing
CDEMDMWW16202.50	1/30/09		VOC/PCB						Angular jagged horizontal fracture at 202.4 Moderate weathering		Formation change Dark brown to grey/black
									Fine lamination, Formation color change at 203-203.1 dark brown to grey/black		
CDEMDMW16204.7	1/30/09	1219	VOC/PCB	100	75	Good		204	Horizontal fracture at 204.0, 204.6, 204.95, 205	39, 204-209	Oxidized vertical fracture at 204.1-204.9
CDEMDMW16206.0	1/30/09	1220	VOC/PCB				0.1-1.1 ft		Calcite vein at 205-205.6		204-205.5 Blue grey/black
CDEMDMW16207.3	1/30/09	1221	VOC/PCB						Horizontal fracture at 205.6, 205.7, 206.0, 207.3, 208.5		Red mudstone 205.5-209.0
											carbonaceous
CDEMDMW16210.3	1/30/09	1425	VOC/PCB	96	100	Good		209	Horizontal fracture at 210.4, 210.8, 211.5, 211.9	40, 209-214	Massive mudstone
CDEMDMW16212.0	1/30/09	1425	VOC/PCB				0.4-1.8 ft		Moderate weathering		Dark brown
											Fracture color changes back to dark brown
CDEMDMW16214.3	1/30/09	1510	VOC/PCB	100	98	Good		214	Horizontal fracture at 216.8, 217, 217.8	41, 214-219	Massive mudstone
CDEMDMW16216.8	1/30/09	1510	VOC/PCB				0.2-2.8 ft		Moderate weathering		Dark brown
CDEMDMW16217.8	1/30/09	1510	VOC/PCB						Finely laminated		Some calcite intermixed in laminations
CDEMDMW16221.35	1/30/09	1600	VOC/PCB	100	100	Good		219	Horizontal fracture at 221.3, 222.2, 223.0, 223.6	42, 219-224	Massive mudstone
CDEMDMW16223.05	1/30/09	1600	VOC/PCB				0.4-2.0 ft		Finely laminated		Dark brown
CDEMDMW16220.00	1/30/09	1600	VOC/PCB					224			Some Calcite intermixed in bedding
CDEMDMW16224.60	855	2/2/09	VOC/PCB	95	93	Good		224	Horizontal fracture at 224.75, 226.1	43, 224-229	Massive mudstone
CDEMDMW16226.00	855	2/2/09	VOC/PCB				0.2-1.8 ft		High angle fracture at 227-227.7		Calcite speckling
CDEMDMW16227.70	855	2/2/09	VOC/PCB						Broken at 228-228.1		Dark brown
									Moderate weathering at fractures		

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-16

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch, 6.35 cm) Triple barrel core Vertical
HYDROGEOLOGIST: C. Hofer, A. Wood, J. DeKoskie

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Morrick
DATUM: Ground Surface

DATE: 1/21/2009 - 2/2/2009
LOCATION: N 635232.8669 E 516283.8339
GROUND ELEVATION: 70.73 MSL

Coring Start at 21 ft bgs

SAMPLES				Quality		Rock Core					
Sample Number	Sample Date	Sample Time (24 hr)	Parameters	Total Recovery %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW16230.0	1003	2/2/09	VOC/PCB	104	100	Good		229	Horizontal fracture at 230.1, 233.4, 233.9	44, 229-234	Massive mudstone
CDEMDMW16233.4	1003	2/2/09	VOC/PCB				0.2-1.2		High angle fracture at 233.1, 233.4		Very little calcite speckling
									Lots of mechanical breakage		Vugs at 229.3-229.4
									No laminations		Dark brown
CDEMDMW16234.7	1050	2/2/09	VOC/PCB	98	90	Good		234	Horizontal fracture at 234.6, 234.7, 234.8, 235, 235.7, 236.9, 237.7, 238.3	45, 234-239	Massive mudstone
CDEMDMW16236.9	1050	2/2/09	VOC/PCB				0.1-1.4 ft		High angle fracture at 234.2-234.4		Dark brown
CDEMDWM16238.3	1050	2/2/09	VOC/PCB						Lots of mechanical breakage around fractures		?
									No laminations		Very little calcite speckling
CDEMDMW16241.1	1300	2/2/09	VOC/PCB	80	0			239	Broken	46, 239-244	Massive mudstone
CDEMDMW16241.1	1300	2/2/09	TOC/PHY						Core from many attempts after core loss		Dark brown
											Very little calcite speckling
CDEMDMW16245.40	2/2/09	1440	VOC/PCB	84	53	Good		244	Horizontal fracture at 244.9, 245.1, 245.0, 245.4, 245.7, 246, 247, 247.4	47, 244-249	Massive mudstone with sandy deposits found
CDEMDMW16247.40	2/2/09	1440	VOC/PCB			Broken					infrequently
									Broken up in sandy chunks		Fine to thick laminations
									Sub angular at 245.6-245.7		Dark brown
CDEMDMW16251.5	2/2/09	1540	VOC/PCB	24	0				Horizontal fracture at 3 inch 1 foot section of recovery	48, 249-254	Massive mudstone
									3 inch 1 foot was recovered		Dark brown
											Fine to thick laminations

Notes:
Total Recovery = (Core length/core run)*100. RQD = ((sum lengths >= 4-inch)/core run)*100. Discontinuity description = type, depth & dip angle.
Sample Parameters: VOC, PCB, PHY (Physical), TOC (Total organic carbon), COX (Rock/chemical oxidation demand)

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch; 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
MDMW20029.10VOC	2/9/09	1545	VOC	84	25	Good		28	Horizontal fracture at 28.2, 28.6, 29.1, 29.5, 30.3,	1, 28-33	Massive mudstone
MDMW20030.10VOC	2/9/09	1545	VOC				0.1-0.5 ft		30.6, 30.8, 31.2, 31.5, 31.7, 32.1, 32.3		Calcite deposit
MDMW20030.85VOC	2/9/09	1545	VOC						Horizontal fracture at 29.5-30.2		Frequent in 0.3 ft spacing
MDMW20031.48VOC	2/9/09	1545	VOC								finely laminated
MDMW20035.10VOC	2/9/09	1620	VOC	100	31	Good		33	Horizontal fracture at 33.7, 34.1, 34.3, 34.4, 35.1,	2, 33-38	Massive mudstone
MDMW20037.50VOC	2/9/09	1620	VOC				0.1-0.8ft		36.0, 36.4, 36.8, 37.0, 37.2, 37.5, 37.8		Calcite in fractures with infrequent small deposits
MDMW20036.80TOC+PHY	2/9/09	1620	TOC/PHY						Broken at 35.2-35.7		Finely laminated
MDMW20038.70VOC	2/10/09	835	VOC	100	43	Good		38	Horizontal fracture at 38.4, 38.7, 38.8, 38.9, 39.6,	3, 38-43	Massive mudstone
MDMW20039.70VOC	2/10/09	835	VOC				0.1-0.8 ft		40.9, 41.3, 41.9, 42.5, 42.8		Calcite seen in all fractures
MDMW20040.40VOC	2/10/09	835	VOC						Horizontal angle fracture at 40.6-40.9		Finely laminated
MDMW20041.90VOC	2/10/09	835	VOC								
MDMW20043.80VOC	2/10/09	915	VOC	100	75	Good		43	Horizontal fracture at 43.9, 44.4, 45.1, 45.2, 45.3,	4, 45-48	Massive mudstone
MDMW20045.10VOC	2/10/09	915	VOC				0.1-1.2 ft		45.7, 46.7, 47.0, 48.6		Calcite in fractures
MDMW20046.10VOC	2/10/09	915	VOC						Finely laminated		Minor deposits
								48			Infrequent in rock matrix
CDEMDMW20044.20VOC	2/10/09	1000	VOC	98	46	Good		48	49.5, 49.7, 49.8, 50.3, 50.7, 51.1, 51.7, 52.4, 52.7,	5, 48-53	Massive mudstone
CDEMDMW20044.70VOC	2/10/09	1000	VOC				0.2-0.9ft		52.75		Calcite deposits in fractures
CDEMDMW20045.70VOC	2/10/09	1000	VOC								Finely laminated
CDEMDMW20046.70VOC	2/10/09	1000	VOC						Mechanical breakage 51.9-52.2		Moderate weathering
CDEMDMW20048.70VOC	2/10/09	1105	VOC	60	0	Good		52	aligned	6, 53-58	Massive mudstone
CDEMDMW20050.70VOC	2/10/09	1105	VOC				0-0.3 ft		orientation and spacing lost in core run		Moderate weathering
											Finely laminated
											Calcite sporadic in deposits
CDEMDMW20058.50VOC	2/10/09	1215	VOC	100	74	Good		58	Horizontal fracture at 58.10, 58.55, 58.95, 59.35,	7, 58-63	Massive mudstone
CDEMDMW20059.35VOC	2/10/09	1215	VOC				0.1-0.8 ft		59.9, 60.1, 60.5, 60.85, 61.3, 61.6, 62.1, 62.6		Finely laminated
CDEMDMW20062.15VOC	2/10/09	1215	VOC								Moderate weathering
CDEMDMW20062.15VOC	2/10/09	1215	VOC								Calcite veins throughout
CDEMDMW20061.10PHY+TOC	2/10/09	1215	PHY/TOC								
CDEMDMW20063.90VOC	2/10/09	1420	VOC	98	33	Good		63	Horizontal fracture at 63.1, 63.3, 63.7, 63.9, 64.1,	8, 63-68	Lost water on run
CDEMDMW20065.60VOC	2/10/09	1420	VOC				0.1-0.8 ft		64.6, 65.1, 65.3, 65.5, 66.3, 67.0, 67.6		Massive mudstone
CDEMDMW20066.70VOC	2/10/09	1420	VOC						Moderate weathering seen at fractures		Finely laminated, some cross bedding
								68			Calcite in fractures seen frequently
CDEMDMW20069.2VOC	2/10/09	1545	VOC	100	50	Good		68	Horizontal fracture at 68.1, 68.6, 69.3, 69.4, 69.5,	9, 68-73	Massive mudstone
CDEMDMW20070.4VOC	2/10/09	1545	VOC				0.1-6.9 ft		69.85, 70.4, 72.1		Some cross bedding
CDEMDMW20070.8VOC	2/10/09	1545	VOC						Reddish-Brown		Fine laminations
CDEMDMW20072.15VOC	2/10/09	1545	VOC						Horizontal angle at 70.1-70.3		Moderate weathering
									Broken at 68.7-69.2		Calcite seen in a few fractures

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch; 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20074.55VOC	2/10/09	1631	VOC	98	90	Good		73	Horizontal fracture at 73.2, 73.65, 73.8, 75.2, 76.0,	10, 73-78	Massive mudstone
CDEMDMW20075.40VOC	2/10/09	1621	VOC				0.2-1.3 ft		76.5, 77.1, 77.4		Calcite in some fractures
CDEMDMW20076.85VOC	2/10/09	1621	VOC						Sub angel fracture at 74.0-74.95		Some bedding
									Broken at end 77.7-78.0		Fine laminations
											Calcite vugs at 74.3-74.6
											Moderate weathering
											Reddish-Brown
CDEMDMW20080.50VOC	2/11/09	945	VOC	56	16	Broken		78	No recovery, reattempt capture recover 2.8 ft.	11, 78-83	Massive mudstone
Matrix Sample	2/11/09	945	VOC				0.1-0.4 ft		Orientation and alignment lost, take 1 matrix sample		Reddish-Brown
											Very little calcite, speckles
											Moderate weathering
CDEMDMW20084.3VOC	2/11/09	1045	VOC	100	51	Good		83	Horizontal fracture at 83.8, 84.0, 84.2, 84.8, 85.7,	12, 83-88	Massive mudstone
CDEMDMW20085.40VOC	2/11/09	1045	VOC				0.1-1.1ft		85.9, 86.4, 86.6, 86.7, 86.9, 87.2, 87.9		Clay in fractures
CDEMDMW20086.60VOC	2/11/09	1045	VOC						Sub angle fracture at 87.5-87.7		Calcite in small sporadic deposits
CDEMDMW20085.70PHY+TOC	2/11/09	1045	PHY/TOC						Broken at 83.0-83.4		Moderate weathering
											Reddish-Brown
								88			Vugs seen but few without
CDEMDMW20089.00VOC	2/11/09	1140	VOC	94	50	Broken		88	Broken at 88.0-88.6, 89.0, 90.1	13, 88-93	Massive mudstone
CDEMDMW20090.23VOC	2/11/09	1140	VOC			Good	0.1-0.8 ft		Horizontal fracture at 90.3, 90.7, 91.1, 91.6, 92.1, 92.3		Some thick laminations with sand and clay
CDEMDMW20090.85VOC	2/11/09	1140	VOC								Mostly fine laminated calcite in small
CDEMDMW20091.90VOC	2/11/09	1140	VOC								sporadic deposits
											Reddish-Brown
											Moderate to well weathered at fractures
CDEMDMW20094.25VOC	2/11/09	1307	VOC	96	25	Good			Horizontal fracture at 93.35, 93.6, 94.25, 94.4,	14, 93-98	Massive mudstone
CDEMDMW20095.70VOC	2/11/09	1307	VOC						94.7, 95.0, 95.25, 96.1, 96.35, 96.5, 96.7, 96.9,		Fine laminations
CDEMDMW20097.00VOC	2/11/09	1307	VOC			Broken			Moderate weathering		Vugs sporadic
									Broken at 93.85-94.1, 95.4-95.7		Reddish-Brown
									Well weathered		Very little calcite throughout core,
											some speckling
CDEMDMW20099.10VOC	2/11/09	1353	VOC	88	29	Good		98	Horizontal fracture at 98.15, 98.3, 99.1, 99.35, 100.4, 100.8, 101.5, 101.8, 102.2	15, 98-103	Massive mudstone
CDEMDME20099.80VOC	2/11/09	1353	VOC				0.1-0.7 ft				Fine laminations
CDEMDMW20100.45 VOC	2/11/09	1353	VOC			Broken			Moderate weathering		Vugs sporadic and infrequent
CDEMDMW20101.80VOC	2/11/09	1353	VOC						Broken at 98.45-99.0, well weathered		Reddish-Brown
									Sub angle fracture at 99.5-99.7, slightly weathered		Very little calcite in fractures
											No significant deposits
CDEMDMW20104.70VOC	2/11/09	1435	VOC	100	71	Good		103	Horizontal fracture at 104.0, 104.3, 105.5, 105.75, 106.75, 107.6	16, 103-108	Massive mudstone
CDEMDMW20105.85VOC	2/11/09	1435	VOC				0.1-1.1 ft		Sub angle fracture at 104.7-104.8		Moderate weathering throughout except well
CDEMDMW20106.45VOC	2/11/09	1435	VOC						Broken at 107.0-107.3, clay in area		weathered in broken area
CDEMDMW20104.70PHY+TOC	2/11/09	1435	PHY/TOC								Reddish-Brown
								108			Vugs sporadic

R2-0016676

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch; 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameters	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20109.40VOC	2/11/09	1513	VOC	104	76	Good	0.1-1.0 ft	108	Horizontal fracture at 108.3, 108.5, 109.85, 110.0, 110.7, 111.2, 111.21, 112.2, 112.3, 112.9	17, 108-113	Massive mudstone
CDEMDMW20110.70VOC	2/11/09	1513	VOC								Moderate weathering
CDEMDMW20112.20VOC	2/11/09	1513	VOC						Sub angle fracture at 109.3-109.4		Vugs sporadic
									Broken at 108.5, 108.8		Reddish-Brown
CDEMDMW20113.80VOC	2/11/09	1547	VOC	98	46	Good	0.1-0.9 ft	113	Horizontal fracture at 113.8, 114.5, 114.8, 115.1, 115.4, 115.5, 115.6, 115.7, 116.0, 116.4, 116.7, 117.1, 117.4, 117.6	18, 113-118	Massive mudstone
CDEMDMW20115.50VOC	2/11/09	1547	VOC								Moderate to well weathered
CDEMDMW20116.80VOC	2/11/09	1547	VOC								Reddish-Brown
									Vugs well weathered at 116.0-116.3		Calcite deposits frequent
											with extensive vugs in sections
CDEMDMW20118.5VOC	2/11/09	1635	VOC	100	23	Good		118	Horizontal fracture at 118.1, 118.35, 118.4, 118.5, slightly weathered at	19, 118-123	Mudstone
CDEMDMW20120.0VOC	2/11/09	1635	VOC						118.9, 119.1, 119.4, 119.7, 120.5, 121.35, 121.6,		Slight weathering
CDEMDMW20120.7VOC	2/11/09	1635	VOC						122.0, 122.3, 122.70, 122.75, 122.85		Reddish-Brown
CDEMDMW20121.35VOC	2/11/09	1635	VOC						High angle fracture at 121.0-121.2		Extensive vugs
CDEMDMW20124.1VOC	2/11/09	1713	VOC	100	53	Good		123	Horizontal fracture at 123.3, 123.4, 123.6, 123.9, 124.0, 124.05, 124.1,	20, 123-128	Mudstone massive
CDEMDMW2012.58VOC	2/11/09	1713	VOC						124.95, 125.2, 125.8, 125.9, 126.4, 127.15, 127.4, 127.8		Slight weathering
CDEMDMW20127.5VOC	2/11/09	1713	VOC						High angle fracture at 123.65-123.9		Reddish-Brown
CDEMDMW20125.55VOC	2/11/09	1713	VOC								Extensive vugs throughout
CDEMDMW20125.75VOC	2/11/09	1713	VOC								
CDEMDMW20129.30	2/12/09	837	VOC	100	45	Good		128	Horizontal fracture at 128.2, 128.45, 129.3, 129.5, 129.7, 130.1, 130.2,	21, 128-133	Mudstone
CDEMDMW20130.45	2/12/09	837	VOC						130.25		Moderate weathering
CDEMDMW20132.50	2/12/09	837	VOC						Broken at 130.4, weathered		Vugs sporadic
									Horizontal fracture at 130.8, 131.35		Very laminated at 131-133
									Low angle fracture at 131.65, 131,85, 132.1		Sandstone vein at 131.3-131.4
									Horizontal fracture at 132.45, 132.6, 132.8		Calcite deposits throughout
									High angle fracture at 129.65-129.9		
CDEMDMW20134.9	2/12/09	915	VOC	96	22	Good		133	Horizontal fracture at 133.1, 133.2, 133.35, 133.4	22, 133-138	Mudstone
CDEMDMW20136.65	2/12/09	915	VOC						Broken at 133.5-133.7		Moderate weathering
									Low angle fracture at 133.9, 134.25, 134.4, 134.55, 134.8, 134.95, 135.15,		Calcite present in laminations
									135.65, 135.8, 135.85, 136.0, 136.05, 136.35, 136.60, 136.75, 137.05, 137.1		Sandstone vein at 136
											Vugs infrequent
											Reddish-Brown
											Sandstone veins at moderate water loss

R2-0016677

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch; 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20	2/12/09			100	67	Good		138	Low angle fracture at 138.2, 138.65, 138.8, 139.35, 139.40, 140.3, 140.5	23, 133-143	Mudstone
											Slight weathering
									Horizontal fracture at 141.1, 141.25		Calcite laminations
									Broken at 141.5-141.8		Vugging 140.5-143
									Low angle fracture at 141.8, 141.9, 142.5, 142.95		Reddish-Brown
CDEMDMW20	2/12/09	1006		90	42	Poor		143	Horizontal fracture at 143.05, 143.35, 143.5, 144.05, 144.15	24, 143-148	Mudstone
CDEMDMW20	2/12/09	1006				core			Low angle fracture at144.45-144.55		Moderate weathering
CDEMDMW20	2/12/09	1006				was			Horizontal fracture at 144.8, 145.55, 146.2		Calcite laminations
						stuck			Broken at 146.5-148		Vugs throughout
											Reddish-Brown
CDEMDMW20144.30	2/12/09	1155	VOC	100	57	Good		148	Broken at 148-148.25	25, 148-153	Mudstone, massive
CDEMDMW20150.10	2/12/09	1155	VOC						Low angle fracture at 148.65		Moderate weathering
CDEMDMW20152.00	2/12/09	1155	VOC						High angle fracture at 149.0-149.20		Many vugs at 149.2
									Horizontal fracture at 149.4		Vugs throughout
									Low angle fracture at 149.8, 149.9, 150.05, weathered		Calcite laminations
									High angle fracture at 150.6-160		Red-Brown
									Broken at 150.2		
									Horizontal fracture at 150.55, weathered 151.0, 151.3, 151.45		
CDEMDMW20154.30	2/12/09	1327	VOC	94	52	Good		153	Low angle fracture at 153.45, 153.6-153.7, 153.75, 153.95	26, 153-158	Massive mudstone
CDEMDMW20156.15	2/12/09	1327	VOC						Horizontal fracture at 154.3, 154.4, 154.45, 154.50,		Laminations with calcite
CDEMDMW20157.20	2/12/09	1327	VOC						154.55, 154.6, 154.65, 154.7, 154.8, 155.5,		Infrequent vugs
									Broken at 156.0-156.15		Slight weathering
									Horizontal fracture at 156.7, 157.0, 157.3		Sandstone veins at 156.2-157.1
											Red-Brown
CDEMDMW20159.50	2/12/09	1411	VOC	100	38	Good		158	Low angle fracture at 158.1, 158.35, 158.65, 158.7, 158.95, 159.2, 160.3, 160.7, 161.2, 161.35,	27, 158-163	Mudstone
CDEMDMW20161.00	2/12/09	1411	VOC						161.75, weathered, 162.2, 162.65		Moderate weathering
CDEMDMW20162.40	2/12/09	1411	VOC								Infrequent vugs
											Laminated with calcite
											Calcite filled vugs observed
											Red-Brown
CDEMDMW20164.50	2/12/09	1458	VOC	100	66	Good		163	Low angle fracture at 159.3, 159.8	28, 163-168	Mudstone massive
CDEMDMW20166.70	2/12/09	1458	VOC						Broken at 159.6-159.9, 160.6-170		Round gravel in fracture at 164.45
CDEMDMW20165.40	2/12/09	1458	PHYs prop						Horizontal fracture at 163.2, 163.85, 164.45, 164.5,		Moderate weathering
CDEMDMW20165.75	2/12/09	1458	TOC						164.6, 164.65, 164.75, 164.85, 164.9, 165.0,		Laminations throughout with calcite
									165.25, 165.35, 165.75, 166.35, 166.6, weathered,		Red-Brown
											Infrequent vugs

R2-0016678

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch; 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameters	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20168.80	2/12/09	1534	VOC	100	55			168	Horizontal fracture at 168.5, 168.8, 168.9, 169.05, 169.3, 169.45, 170.0, 170.05, 170.4, 170.45, 170.55, 170.85, 171.30, 171.40, Broken 171.85	29, 168-173	Mudstone, massive
CDEMDMW20170.40	2/12/09	1534	VOC								Laminations of calcite
CDEMDMW20171.90	2/12/09	1534	VOC								Moderate weathering
									Low angle fracture at 172.6		Red-Brown
											Infrequent vugs
CDEMDMW20	2/12/09	1620		100	72			173	Low angle fracture at 173.15	30, 173-178	Mudstone, massive
CDEMDMW20	2/12/09	1620							High angle fracture at 173.2-173.4		Infrequent vugs
									Broken at 173.9-174.05		Lamination observed
									Horizontal fracture at 174.25, 174.35, 174.4, 174.5,		Calcite deposits
									175.65, 176.0, 177.05, 177.5		Moderate weathering
									High angle fracture at 177.5-177.6, 177.7-177.75		Red-Brown
CDEMDMW20	2/12/09	1705		100	42			178	Horizontal fracture at 178.3, weathered	31, 178-183	Mudstone
CDEMDMW20	2/12/09	1705							High angle fracture at 178.7-179.1		Slight weathering
CDEMDMW20	2/12/09	1705							Horizontal fracture at 179.3, 179.6, 180.4, 180.7, 181.35,		Infrequent vugs
									181.8, 182.9		Laminated with calcite
									High angle fracture at 180-180.20, 180.55-180.7,		Red-Brown
									181.8-182.1, 182.5, 182.6		
CDEMDMW20	2/12/09	1750		100	43			183	Horizontal fracture at 183.25, 183.5, 183.8, 184.3, 184.55,	32, 183-188	Mudstone
CDEMDMW20	2/12/09	1750							184.65, 185.05, 185.35, 185.6, 185.65, 185.05, 185.35, 185.6,		Moderately weathered
CDEMDMW20	2/12/09	1750							185.65		Laminations of calcite
CDEMDMW20	2/12/09	1750							Broken at 185.8-185.95		Calcite deposits
									Horizontal fracture at 186.55-188		Infrequent vugs
								188	Vertical fracture at 187.7-187.9		
CDEMDMW20188.70VOC	2/13/09	820	VOC	100	57	Good		188	Horizontal fracture at 188.5, 188.65, 188.75, 188.8, 189.25, 190.7, 191.35, 191.65, 192.15, 192.6,	33, 188-193	Massive mudstone
CDEMDMW20190.60VOC	2/13/09	820	VOC				0.1-1.0 ft		192.75, 192.85		Calcite speckling
CDEMDMW20192.30VOC	2/13/09	820	VOC						Sub angular fracture at 190.2-190.3, 190.5-190.6		Fine laminations
											Reddish-Brown
											Moderate weathering
CDEMDMW20194.9VOC	2/13/09	917	VOC	100	80	Good		193	Horizontal fracture at 193.3, 193.65, 193.8, 194.75, 195.15, 195.6, 195.7, 195.7, 195.9, 196.55,	34, 193-198	Massive mudstone
CDEMDMW20197.2VOC	2/13/09	917	VOC				0.1-1.2 ft		197.05, 197.2, 197.4		Calcite speckling
									High angle fracture at 194.3-194.5		Fine laminations
											Reddish-Brown
											Moderate weathering
											Calcite vein at 194.6-194.8

R2-0016679

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

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JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch; 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

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DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameters	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20198.85VOC	2/13/09	1000	VOC	100	59	Good	0.1-1.2 ft	198	Horizontal fracture at 198.5, 198.8, 200.45, 201.1, 201.25, 201.4, 201.5, 201.8, 202.1, 202.3, 202.5	35, 198-203	Massive mudstone
CDEMDMW20200.50VOC	2/13/09	1000	VOC								Calcite speckling
CDEMDMW20202.15VOC	2/13/09	1000	VOC						High angle fracture at 199-199.3		Fine laminations
											Reddish-Brown
											Moderate weathering at fractures
CDEMDMW20205.00VOC	2/13/09	1042	VOC	100	59	Good	0.1-1.1 ft	203	Horizontal fracture at 203.8, 204.15, 204.25, 204.85, 205.1, 205.25, 205.5, 206.5, 206.9, 207.2, 207.7	36, 203-208	Massive mudstone
CDEMDMW20206.60VOC	2/13/09	1042	VOC								Calcite speckling
CDEMDMW20204.40PHY/TOC (	2/13/09	1042	PHY/TOC						Sub angular fracture at 205.85-206		Fine laminations
											Reddish-Brown
											Moderate weathering at fractures
CDEMDMW20209.30VOC	2/13/09	1124	VOC	100	65	Good	0.1-1.1 ft	208	Horizontal fracture at 208.25, 209.05, 209.2, 209.3, 209.4, 209.8, 210.0, 210.4, 210.6, 210.75, 210.85, 211.0, 211.9, 212.4	37, 208-213	Massive mudstone
CDEMDMW20210.55VOC	2/13/09	1124	VOC								Fine laminations
CDEMDMW20211.80VOC	2/13/09	1124	VOC								Reddish-Brown
									Large vugs at 211.7-211.9		Calcite speckling
											Moderate weathering
											Vugs present throughout
CDEMDMW20214.65VOC	2/13/09	1308	VOC	100	72	Good	0.1-1.3 ft	213	Horizontal fracture at 213.2, 214.5, 215.15, 215.9, 216.8, 217.3, 217.8	38, 213-218	Massive mudstone
CDEMDMW20217.20VOC	2/13/09	1308	VOC								Small amount of vugs
									Sub angle fracture at 213.7213.8, 214-214.1		Reddish-Brown
											Moderate weathering
											Calcite speckling
											Fine laminations
CDEMDMW20219.70VOC	2/13/09	1417	VOC	98	80	Good	0.1-1.2 ft	218	Horizontal fracture at 218.7, 219.7, 220.15, 220.35, 220.45, 221.21, 221.4, 221.55, 221.75, 222.2	39, 218-223	Massive mudstone
CDEMDMW20221.55VOC	2/13/09	1417	VOC								Small speckling of calcite
CDEMDMW20222.30VOC	2/13/09	1417	VOC						Moderate weathering		Fine laminations
											Reddish-Brown
											Moderate weathering
CDEMDMW20224.90VOC	2/13/09		VOC	100	93	Good		223	Horizontal fracture at 224.3, 224.7, 225.5, 226.4, 227.3, 227.75	40, 223-228	Massive mudstone
CDEMDMW20227.30VOC	2/13/09		VOC								Small speckling of calcite
CDEMDMW20226.30PHY+TOC	2/13/09		TOC/PHY						High angle fracture at 223.3, 223.9, 226.65-226.8		Moderate weathering
											Fine laminations
								228			Reddish-Brown

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

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DRILLING METHOD: HQ (2.5 inch, 6.35 cm) Triple barrel core - Vertical
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DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

Coring Start at 28 ft bgs

SAMPLES				Quality		ROCK CORE					
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20228.80VOC	2/16/09	832	VOC	100	93	Good	0.1-1.8 ft	228	Horizontal fracture at 228.5, 229.25, 229.35, 230.1, 231.45	41, 228-233	Massive mudstone
CDEMDMW20230.10VOC	2/16/09	832	VOC								Small calcite deposits sporadic
CDEMDMW20231.40VOC	2/16/09	832	VOC								Moderate weathering
											Red-Brown
											Fine to no lamination
CDEMDMW20234.00VOC	2/16/09	932	VOC	100	87	Good	0.1-2.4 ft	233	Horizontal fracture at 233.9, 234.1, 234.45, 234.95, 235.35, 235.45, 235.55, 237.85	42, 233-238	Massive mudstone
CDEMDMW20235.40VOC	2/16/09	932	VOC								Small calcite deposits sporadic
											Red-Brown
											Some vugs
											Moderate weathering
											Fine to no lamination
CDEMDMW20239.10VOC	2/16/09	1028	VOC	98	75	Good	0.1-1.2 ft	238	Horizontal fracture at 239.1, 239.7, 240.1, 240.8, 241.35, 241.65, 241.95, 242.1, 242.45, 242.55	43, 238-243	Massive mudstone
CDEMDMW20240.90VOC	2/16/09	1028	VOC								Some calcite veins and speckles
CDEMDMW20242.10VOC	2/16/09	1028	VOC								Red-Brown
											Moderate weathering
											Fine to no lamination
											Cross bedding in some places
CDEMDMW20244.60VOC	2/16/09	1124	VOC	100	52	Good	0.1-0.9 ft	243	Horizontal fracture at 243.1, 243.3, 244.5, 245.1, 245.4, 246.25, 247.1, 247.65	44, 243-248	Mudstone, massive
CDEMDMW20247.10VOC	2/16/09	1124	VOC								Some veins and speckling of calcite
CDEMDMW20246.20VOC	2/16/09	1124	PHY/TOC						High angle fracture at 244.5-244.9 along calcite vein		Red-Brown
									Broken at 243.3-244.2		Fine laminations
								248			Moderate to well weathered
CDEMDMW20248.90VOC	2/16/09	1238	VOC	98	48	Good	0.1-0.9 ft	248	Horizontal fracture at 248.2, 248.85, 249.1, 249.4, 249.55, 250.0, 250.1, 250.25, 251.5, 251.75, 251.95, 252.55	45, 248-253	Mudstone
CDEMDMW20250.10VOC	2/16/09	1238	VOC								Moderate weathering
CDEMDMW20252.00VOC	2/16/09	1238	VOC								Red-Brown
									Broken at 252.1-252.3		Small calcite deposits
											Fine laminations
											Possible formation change at 252.5
											Carbonaceous black mudstone
CDEMDMW20253.30VOC	2/16/09	1515	VOC	90	73	Good		253	Broken at 253.0-253.6	46, 253-258	Black/Grey with Red-Brown streaking carbon areas
CDEMDMW20254.40VOC	2/16/09	1515	VOC	36	17	Broken			High angle fracture at 254-254.8		Very little to no calcite
CDEMDMW20255.40VOC	2/16/09	1555	VOC						1.8 feet recovered initially, rest of core lost down hole		Moderate to well weathered
CDEMDMW20257.00VOC	2/16/09	1555	VOC						Horizontal fracture at 254.8, 255.15, 255.7, 256.65, 257.1		Fine laminations

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch; 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameters/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMD20260.10VOC	2/17/09	1157	VOC	100	92	Good		258	Horizontal fracture at 259.1, 260.2 (fracture zone 1 cm wide)	47, 258-263	Mudstone
CDEMD20261.90VOC	2/17/09	1157	VOC				0.75-1.0 ft		261 (fracture zone 2 cm wide)		Moderately weathered to fresh laminated
									261.9, 262.5, 262.7 (steep)		Red-Brown
									Broken at 261and 260.2, no water gain or loss		Trace bioturbation
											Trace to little calcite
CDEMD20263.60VOC	2/17/09	1315	VOC	100	54/60	Good				48, 263-268	Mudstone
CDEMD20265.20VOC	2/17/09	1315	VOC						Horizontal fracture at 236.6, 264.1, 264.3, 264.4,		Red-Brown
CDEMD20260.20VOC	2/17/09	1315	VOC						265.1 265.6, 265.7, 265.9, 266.2, 267.8-268.0		Finely laminated
CDEMD20267.70PHY	2/17/09	1315	PHY						(vertical)-(closed) No water loss or gain		Trace bioturbation, 263-264.4, 264.4-264.7
CDEMD20267.70TOC	2/17/09	1315	TOC								Plus voids and vugs, 264.7-266.3 and 263-264.4
											Mudstone, 266.3-268
											Numerous voids/vugs and calcite
CDEMD20268.70VOC	2/17/09	1413	VOC	4.8-5 f	36/60	Poor			Horizontal fractures at 268, 268.1, 268.2-268.4 (strongly) 268.6-268.7, (open zone) 269.9, 270.4,	49, 268-273	Mudstone
CDEMD20170.40VOC	2/17/09	1413	VOC						270.5, 270.6, 270.8, 271.5, 271.7 (strong)		Red-Brown
CDEMD20272.00VOC	2/17/09	1413	VOC								Finely laminated
									272-272.1 (strong) (open) 272.4-272.5 (strong open) 272.9		Trace bioturbation
									(shallow dip-open-clay) open at 268-268.4		Massive-fresh
									No water loss or gain		Trace clay in fracture, fresh
CDEMD20274.60VOC	2/17/09	1454		4. 5/5	50	Poor			273-273.1 (open), 273.2, 273.5-274 (zone-open weathered)	50, 273-278	Mudstone
CDEMD20276.60VOC	2/17/09	1454							274.5-274.7 (zone-open weathered)		Red-Brown
									274.8, 274.9 (clay) 275.4, 275.5, 276.6-276.8 (dipping open)		Strongly laminated
									276.9 (horiz. open) 277.1 (open horizontal zone)		Zones of voids and vugs at 273.5-274, 276.2-
									277.1-277.5 (dipping steep-open, trace clay)		27.65, 277.0-277.2
											Minor water loss
CDEMDMW20279.20VOC	2/17/09	1645	VOC	100	45/60	Moderate		278	278 (steep) 278.5 (horizontal and steep) 278.7 (horizontal)	51, 278-283	Mudstone
CDEMDMW20289.50VOC	2/17/09	1645	VOC			Poor			279.2 (horizontal-open)		Red-Brown
CDEMDMW20282.70VOC	2/17/09	1645	VOC						279.6-279.7, 280.7 (open)		Scattered voids/vugs
									281.4, 281.5 (horizontal-open)		Little calcite
									282 - 282.2 (open with clay)		Finely laminated
									282.6-282.8 (open), 282.8-283 (steep, open)		Trace bioturbation
											Fresh
CDEMDMW20284.40VOC	2/18/09	946	VOC	100	50	Good		283	Horizontal fracture at 283.2, 283.35, 284.1, 285.6, 286.1, 286.2, 286.3, 286.8, 286.9, 287.25, 287.9	52, 283-288	Mudstone, massive
CDEMDMW20285.60VOC	2/18/09	946	VOC			Clay	0.1-0.8 ft				Red-Brown
CDEMDMW20287.7PHY+TOC	2/18/09	946	PHY/TOC						Clay filled horizontal fracture at 285.9		Little calcite
									Clay filled fractures at 284.2-284.5		Clay filled fractures
									High angle at 285.25-285.5		Lots of clay
											Finely laminated

R2-0016682

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5 inch, 6.35 cm) Triple barrel core - Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Corner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20288.30VOC	2/18/09	1100	VOC	98	65	Good		288	Horizontal fracture at 288.25, 288.48, 288.9, 289.15, 290.15, 290.38,	53, 208-293	Mudstone, massive
CDEMDMW20290.40VOC	2/18/09	1100	VOC				0.1-0.8 ft		290.8, 291.15, 291.75		Red-Brown
CDEMDMW20291.80VOC	2/18/09	1100	VOC						Sub angle fracture at 290.4-290.6, 291.9-292.1		Scattered voids/vugs
											Finely laminated
								293			Moderate weathering at fracture
CDEMDMW20295.50VOC	2/18/09	1153	VOC	99	60	Good		293	Horizontal fracture at 293.25, 295.2, 295.4, 295.8, 296.4, 296.65, 297.2, 297.6, 297.8	54, 293-298	Mudstone, massive
CDEMDMW20297.60VOC	2/18/09	1153	VOC				0.1-1.8 ft				Red-Brown
									Sub angle fracture at 295.5-295.7		Little calcite
											Scattered vugs
											Finely laminated
											Moderate weathering at fractures
CDEMDMW20298.1VOC	2/18/09	1331	VOC	86	52	Good		298	Horizontal fracture at 298.9, 299.0, 299.1, 299.2, 300.6,	55, 298-303	Mudstone, massive
CDEMDMW20301.30VOC	2/18/09	1331	VOC			Broken	0.1-1.4 ft		301.65, 301.75		Red-Brown
									Broken at 301.0-301.6, sandstone possible void		Finely laminated
											Calcite vein
											Scattered vugs
											Moderate weathering
											Fine grain sandstone with calcite crystallization on
											fracture at 301-301.9
CDEMDMW20303.20VOC	2/18/09	1428	VOC	100	52	Good		303	Broken at 303.0-303.2, 306.4-306.6	56, 303-308	305.1-305.2, sand in matrix with mudstone
CDEMDMW20305.20VOC	2/18/09	1428	VOC			Broken			Horizontal fracture at 304.0, 304.8, 305.0, 305.5,		Red-Brown
CDEMDWM20306.50VOC	2/18/09	1428	VOC						305.8, 306.9, 307.3		Massive, mudstone
											Little calcite
											Scattered vugs
											Moderate weathering at fractures
CDEMDMW20310.60VOC	2/18/09	1535	VOC	100	70	Good		308	Horizontal fracture at 310.0, 310.3, 310.6, 311.14, 311.7,	57, 308-313	Clay at 310.4-310.6
CDEMDMW20311.70VOC	2/18/09	1535	VOC				0.1-2.0 ft		312.1, 312.4		Massive, mudstone
CDEMDMW20308.40TOC/PHY	2/18/09	1535	TOC/PHY						Broken at 309.7-309.9		Little calcite speckling
									Clay in fracture at 310.4-310.6		Moderate weathering
											Red-Brown
								313			Fine to no lamination
CDEMDMW20314.20VOC	2/18/09	1620	VOC	100	87	Good		313	Horizontal fracture at 313.1, 314.2, 314.3, 315.6, 316.5, 316.7, 317.4, 317.9	58, 313-318	Mudstone, massive
CDEMDMW20315.60VOC	2/18/09	1620	VOC				0.1-1.2 ft				Little calcite
CDEMDMW20317.30VOC	2/18/09	1620	VOC								Low weathering
											Red-Brown
											Fine to no lamination

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

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DRILLING METHOD: HQ (2.5-inch; 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

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DRILLER: Craig Conner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameters	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20319.30VOC	2/19/09	903	VOC	98	64	Good	0.1-1.1 ft	318	Horizontal fracture at 318.7, 318.8, 319.0, 319.55, 320.3, 321.25, 322.7, 322.75	59, 318-323	Mudstone, massive
CDEMDMW20320.80VOC	2/19/09	903	VOC								Little calcite
									Broken at 319.1-319.3, 320.60-320.75		Low amount of weathering
									High angle at 322.4-322.65		Red-Brown
											Clay in broken areas
											Vugs scattered
											Fine to no lamination
											Moderate weathering
CDEMDMW20323.70VOC	2/19/09	1019	VOC	95	73	Good	0.1-1.1 ft	323	Horizontal fractures at 323.1, 323.65, 323.9, 323.95, 324.6, 325.25, 325.7, 326.85, 327.15	60, 323-328	Mudstone, massive
CDEMDMW20325.80VOC	2/19/09	1019	VOC								Little calcite
CDEMDMW20327.20VOC	2/19/09	1019	VOC								Scattered vugs/voids, some large
											Red-Brown
											Clay in some fractures
											Moderate weathering
											Fine to no lamination
CDEMDMW20329.00VOC	2/19/09	1116	VOC	96	57	Good	0.1-1.0 ft	328	Horizontal fracture at 328.6, 329.4, 329.55, 329.65, 329.7, 330.45, 330.8, 331.2, 331.5, 331.7, 331.85, 332.0, 332.4	61, 328-333	Mudstone
CDEMDMW20331.90VOC	2/19/09	1116	VOC								Little Calcite
CDEMDMW20330.00VOC	2/19/09	1116	PHY/TOC						High angle fracture at 330.1-330.35		Clay in spots
									Clay at 328.7-328.9, 332.35-332.45		Red-Brown
											Moderate weathering
											Scattered vugs/voids
											Fine to no lamination
								333			Sand intermixed in matrix
CDEMDMW20334.00VOC	2/19/09	1419	VOC	100	78	Good	0.1-1.3 ft	333	Horizontal fracture at 333.55, 333.8, 334.0, 334.35, 334.5, 335.1, 335.25, 335.65, 336.3, 336.4, 337.1, 337.6	62, 333-338	Mudstone, massive
CDEMDMW20335.60VOC	2/19/09	1419	VOC								Little calcite
CDEMDMW20337.10VOC	2/19/09	1419	VOC								Scattered voids
											Red-Brown
											Moderate weathering at fractures
											Fine to no lamination
CDEMDMW20339.60VOC	2/19/09	1524	VOC	98	63	Good	0.1-0.9 ft	338	Horizontal fracture at 338.35, 338.45, 339.55, 341.10, 341.25, 342.2, 342.6	63, 338-343	Mudstone, massive
CDEMDMW20341.20VOC	2/19/09	1524	VOC								Little calcite
									Clay in seam at 338.35, 341.10		Scattered vugs/voids
									Broken at 340.1-341.0		Red-Brown
											Moderate weathering
											Fine to no lamination

R2-0016684

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch; 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE				Coring Start at 28 ft bgs.	
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20344.20VOC	2/19/09	1613	VOC	100	52	Good		343	Horizontal fracture at 343.15, 343.25, 344.55, 344.85, 345.05, 345.25, 345.7, 345.8, 345.9,	64, 343-348	Mudstone, massive
CDEMDMW20345.70VOC	2/19/09	1613	VOC				0.1-0.8 ft		346.2, 346.65, 347.45		Little calcite
CDEMDMW20347.50VOC	2/19/09	1613	VOC						High angle fracture at 343.75-344.0, 346.85-347		Scattered vugs
											Red-Brown
											Moderate weathering
											Fine to no lamination
CDEMDMW20349.30	2/20/09	932	VOC	100	80	Good		348	Horizontal fracture at 348.15, 348.65, 349.0, 349.3, 350.3, 350.5, 350.65, 351.1, 351.25, 351.6, 351.9,	65, 348-353	Mudstone, massive
CDEMDMW20351.30	2/20/09	932	VOC				0.1-1.0 ft		352.55, 352.9		Little calcite
CDEMDMW20352.70	2/20/09	932	PHY/TOC						Clay in all fractures in 348-350		Scattered vugs
											Red-Brown
											Moderate weathering
								353			Fine to no lamination
CDEMDMW20354.00VOC	2/20/09	1027	VOC	96	43	Good		353	Horizontal fracture at 353.25, 353.4, 354.4, 354.65, 354.75, 354.95, 355.51, 355.6, 356.25, 357, 357.3	66, 353-358	Mudstone, massive
CDEMDMW29355.30VOC	2/20/09	1027	VOC				0.1-0.8 ft				Little calcite vein
CDEMDMW20357.00VOC	2/20/09	1027	VOC								Fine to no lamination
									Broken at 353.6-353.9, 355-355.3		Red-Brown
											Moderate weathering
											Scattered vugs
CDEMDMW20359.50VOC	2/20/09	1124	VOC	100	72	Good		358	Horizontal fracture at 358.35, 359.45, 359.7, 359.9, 360.15, 360.25, 360.9, 362.05, 362.3	67, 358-363	Mudstone, massive
CDEMDMW20361.00VOC	2/20/09	1124	VOC				0.1-1.8 ft				Little calcite
CDEMDMW20362.40VOC	2/20/09	1124	VOC								Fine to no lamination
											Red-Brown
											Moderate weathering
											Scattered vugs
CDEMDMW20364.00VOC	2/20/09	1302	VOC	98	56	Good		363	Horizontal fracture at 364.1, 364.3, 364.5, 364.7, 364.9, 365.2, 365.8, 366.0, 366.7	68, 263-268	Cross bedding throughout
CDEMDMW20366.00VOC	2/20/09	1302	VOC				0.1-1.8 ft				Mudstone
											Little calcite
									Broken at 363.6-363.9		Fine lamination
											Red-Brown
											Scattered vugs
											Moderate weathering

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

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GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameter/s	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20369.00VOC	2/20/09	1405	VOC	100	57	Good		368	Horizontal fracture at 368.2, 368.65, 368.75, 369.0	69, 368-375	Mudstone
CDEMDMW20370.50VOC	2/20/09	1405	VOC				0.1-1.3 ft		369.25, 370.2, 370.35, 370.65, 371.0, 371.25,		Little to no calcite
CDEMDMW20371.80VOC	2/20/09	1405	VOC						372.8, 372.95		Red-Brown
CDEMDMW20368.70PHY+TOC	2/20/09	1405	PHY/TOC						Sub angle fracture at 371.6-371.75		Fine lamination
									Clay in seams		Moderate weathering
								373			Scattered vugs
CDEMDMW20373.50VOC	2/20/09	1454	VOC	98	73	Good		373	Horizontal fracture at 373.3, 373.5, 373.75, 374.0,	70, 373-378	Mudstone
CDEMDMW20376.10VOC	2/20/09	1454	VOC				0.1-1.2 ft		374.2, 374.6, 375.3, 375.9, 376.3, 376.65, 377.15,		Little calcite, scattered vugs
									376.6		Fine to no lamination
									Clay in seams at 373.3, 375.4		Red-Brown
											Clay in seams
											Moderate weathering
CDEMDMW20379.00VOC	2/23/09	925	VOC	100	89	Good		378	Horizontal fracture at 378.5, 378.65, 379.05,	71, 378-383	Mudstone, massive
CDEMDMW20380.50VOC	2/23/09	925	VOC				0.1-1.7 ft		379.40, 380.55, 381.45, 382.8		Little calcite, scattered vugs
CDEMDMW20381.50VOC	2/23/09	925	VOC								Red-Brown
											Fine to no lamination
											Moderate weathering
CDEMDMW20384.30VOC	2/23/09	1020	VOC	100	60	Good		383	Horizontal fracture at 383.55, 383.65, 384.2,	72, 383-388	Mudstone, massive
CDEMDMW20387.10VOC	2/23/09	1020	VOC				0.1-1.1 ft		384.55, 385.0, 385.15, 385.45, 385.65, 386.15,		Little calcite, scattered vugs
									387.1, 387.3, 387.5, 387.7, 387.9		Red-Brown
									Clay in seam at 385.0		Fine to no lamination
											Moderate weathering
CDEMDMW20389.50VOC	2/23/09	1119	VOC	100	90	Good		388	Horizontal fracture at 389.45, 389.7, 391.7, 392.14	73, 388-393	Mudstone, massive
CDEMDMW20391.70VOC	2/23/09	1119	VOC				0.4-2.0 ft		Lots of clay in all seams and fractures		Little calcite, scattered vugs
CDEMDMW20392.60VOC	2/23/09	1119	VOC								Red-Brown
CDEMDMW20388.40PHY/TOC	2/23/09	1119	PHY/TOC								Moderate weathering
											Fine to no lamination
								393			Lots of clay
CDEMDMW20394.40VOC	2/23/09	1215	VOC	98	50	Good		393	Horizontal fracture at 393.3, 393.75, 394.0, 394.3,	74, 393-398	Mudstone, massive
CDEMDMW20396.40VOC	2/23/09	1215	VOC				0.1-0.9 ft		396.1, 396.2, 396.3, 397.25, 397.35		Red-Brown
									Sub angle fracture at 395.0-395.2		Scattered vugs
											Fine to no lamination
											Little Calcite
											Moderate weathering

R2-0016686

MALCOLM PIRNIE, INC.

17-17 Route 208 North, Fair Lawn, NJ 07410

BORING: MW-20

PROJECT NAME: Cornell-Dubilier Electronics Superfund Site
JOB NUMBER: 4553066
DRILLING METHOD: HQ (2.5-inch; 6.35 cm) Triple barrel core. Vertical
HYDROGEOLOGIST: C. Hofer

DRILLING FIRM: Advanced Drilling, Inc.
DRILLER: Craig Conner
HELPER: James Mornick
DATUM: Ground Surface

DATE: 2/9/2009 - 2/23/2009
LOCATION: N 637131.6959 E 516081.8303
GROUND ELEVATION: 66.22 MSL

SAMPLES				Quality		ROCK CORE					Coring Start at 28 ft bgs.
Sample Number	Sample Date	Sample Time (24 hr)	Parameters	Total Recovery, %	RQD, %	Core Condition	Fracture Spacing	Depth (ft)	Discontinuity Description	Run #, Depth	Rock Mass Description
CDEMDMW20399.10VOC	2/23/09	1417	VOC	98	75	Good		398	High angle fracture at 398.4-395.7	75, 398-403	Mudstone, massive
CDEMDMW20400.60VOC	2/23/09	1417	VOC				0.1-1.2 ft		Horizontal fracture at 398.6, 398.9, 399.15, 399.25,		Red-Brown
CDEMDMW20412.30VOC	2/23/09	1417	VOC						399.3, 399.75, 399.9, 400.0, 400.2, 400.55, 401.3,		Scattered vugs, little calcite
									High angle fracture from 402.05-402.3		Moderate weathering
											Fine to no calcite
CDEMDMW20403.70VOC	2/23/09	1517	VOC	100	89	Good		403	Horizontal fracture at 403.25, 403.6, 403.65, 403.7, 403.85, 406.2, 406.8, 407.05, 407.7	76, 403-408	Mudstone, massive
CDEMDMW20406.80VOC	2/23/09	1517	VOC				0.1-2.5 ft				Fine laminations, cross bedding
									Clay in seams of fracture		Red-Brown
											Scattered vugs, calcite
											Moderate weathering
CDEMDMW20409.50VOC	2/23/09	1606	VOC	100	87	Good		408	Horizontal fracture at 409.5, 410.2, 411.05, 411.35, 412.15, 412.2, 412.5	77, 408-413	Mudstone
CDEMDMW20411.10VOC	2/23/09	1606	VOC				0.1-1.5 ft		High angle fracture at 410.45-410.6		Red-Brown
CDEMDMW20412.40VOC	2/23/09	1606	VOC								Scattered vugs, calcite
CDEMDMW20408.40PHY+TOC	2/23/09	1606	PHY/TOC								Moderate weathering
								413			Fine to no lamination

Notes:
Total Recovery = (Core length/core run)*100. RQD = ((sum lengths >= 4-inch)/core run)*100. Discontinuity description = type, depth & dip angle.
Sample Parameters: VOC, PCB, PHY (Physical), TOC (Total organic carbon), COX (Rock/chemical oxidation demand)

R2-0016687

APPENDIX E

Rock Core Sampling and Analysis at the Cornell Dubilier Electronics Superfund Site

FINAL REVISED DATA REPORT

Project ID 082130-R
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STONE ENVIRONMENTAL INC

Table of Contents

1. INTRODUCTION 1

2. FIELD SAMPLE COLLECTION METHODS 2
2.1. Drilling and Core Collection 2
2.2. VOC Sample Collection and Processing 2
2.3. Physical Property Sample Collection 4
2.4. PCB Sample Collection 4
2.5. TOC Sample Collection 4

3. LABORATORY ANALYSIS AND VOC EXTRACTION 6

4. RESULTS 7
4.1. Rock Core VOC Results and Porewater Estimates 7
4.2. Results from Field Blanks and Duplicates 9

5. CONCLUSION 11

6. REFERENCES 14

LIST OF FIGURES
Figure 1: MW-14
Figure 2: MW-16
Figure 3: MW-20
Figure 4: Partitioning Coefficient MW-14 and MW-20
Figure 5: Partitioning Coefficient MW-16

LIST OF TABLES
Table 1: Summary of Drilling Progression and Samples Collected
Table 2: Summary of Physical Property Samples Collected
Table 3: Results of Physical Property Measurements
Table 4: Summary of VOC Results for Field and Laboratory Blanks
Table 5: Summary of VOC Results for Field Duplicates

APPENDICES

APPENDIX A : VOC CONCENTRATIONS
A.1. Total VOC Concentrations in Rock Core Samples
A.2. VOC Concentrations in Rock Core Samples - µg/L Pore Water

APPENDIX B : VOC ANALYTICAL REPORT

APPENDIX C : PHYSICAL PROPERTY–ANALYTICAL REPORT

1. INTRODUCTION

Stone Environmental, Inc. (Stone) was retained by Malcolm Pirnie, Inc. (MPI) to support a program of rock core sampling and laboratory analysis for Operable Unit 3 (OU3) at the Cornell-Dubilier Electronics Superfund Site in South Plainfield, NJ. The purpose of this work was to assess the distribution of chlorinated volatile organic compounds (VOCs) and polychlorinated biphenyls (PCBs) within the bedrock at several locations around the site. Previous investigations have focused on the aqueous concentrations of contaminants of concern in water flowing through fractures in the bedrock flow system. The investigation described in this report focuses on concentrations of contaminants of concern which are present in the rock matrix as a result of diffusive flux of contaminants from fractures into the matrix. Contaminant mass resident in the matrix can serve as a long term source of contamination to groundwater in the bedrock flow system as the contaminants diffuse back into the water in the fractures from the matrix over time.

Rock core sampling was conducted during drilling and coring of three boreholes, MW14, MW16, and MW20 from January 21 to March 3, 2009. The locations of the three boreholes were selected by MPI in consideration of data gaps from previous field studies at the site.

A total of 824 linear ft of rock core was retrieved from the three boring locations. A total of 465 rock samples, including 21 field duplicates and 21 matrix spike samples, were collected for VOC analysis. A total of 223 core samples were collected for PCB analysis at MW14 and MW16, including 11 field duplicates. PCB samples were extracted and analyzed by Liberty Analytical Corporation in Cary, NC, which was assigned to perform the PCB analyses under the USEPA Contract Laboratory Program. The management of the PCB data, and conclusions associated with these data, were handled by Malcolm Pirnie and are therefore not included in this report. Samples to be analyzed for total organic carbon (TOC) were collected from 44 depths in the 3 core holes, including three field duplicates. A total of 43 intact core samples were collected for physical property analyses, including two field duplicates. Extraction and VOC analyses of the rock core samples were conducted on- site by Stone between the dates of January 21 to March 3, 2009. Results of physical property analyses for bulk density, porosity and organic carbon content from samples collected during the prior work are used for estimation of rock pore water concentrations within the rock matrix.

2. FIELD SAMPLE COLLECTION METHODS

The following is a summary of the field methods used for drilling, rock sample collection, and sampling during this work. The sampling was undertaken by three Stone staff members working in concert with a Malcolm Pirnie geologist who logged the core and directed drilling operations. Subsequent to the sample collection, Stone performed extraction and analysis of the VOC subsamples in an onsite laboratory. The Standard Operating Procedures (SOPs) for the sampling and analytical procedures were included with the work plan provide additional detail.

2.1. Drilling and Core Collection

Drilling at MW14, MW16, and MW20 was conducted from January 21 to March 3, 2009 by Advanced Drilling of New Jersey. Bedrock was encountered between 21 and 28 feet below ground surface (bgs). Casing was advanced through the overburden into competent bedrock and grouted into place. Coring was accomplished using an HQ-size core barrel, generating 5- foot long by 2.5 inch diameter cores. A triple-tube core barrel was utilized to minimize disturbance of the core and concomitant loss of VOCs. Core samples were retained within a second inner steel tube, split lengthwise, within the standard core barrel. The split tube was extruded from the outer core barrel after each core run using water pressure. One half of the split tube was then removed to expose the core sample. This method limits the disturbance and mechanical breaks of the core samples, and provides cores that better reflect the in situ fracture distribution. An MPI geologist supervised the progression of drilling and terminated drilling at each location based on VOC analytical results or upon reaching a target depth.

Deviations: A surface casing was set to 20 ft bgs at MW14 then regular coring activities began on February 5, 2009 and progressed to a depth of 69 ft bgs on February 6, 2009. This first 69 feet of drilling was highly contaminated and there was concern that drilling could cross connect this highly contaminated zone to deeper fracture networks. Drilling was halted and the drill rig was moved to MW20. Upon the completion of MW20 the drill rig moved back over to MW14, offset from the original boring location, and casing was grouted in place from ground surface to 70 ft bgs, then regular coring activities resumed.

2.2. VOC Sample Collection and Processing

Immediately following retrieval, the rock core was transferred from the split tube to a PVC tray lined with aluminum foil. The PVC tray was placed on a table in the vicinity of the drill rig, where the core was logged by a MPI geologist and sampled by a Stone geologist. Sample locations were selected for VOC analysis based on fracture distributions and lithology with a target frequency of approximately one sample every 2feet. Prior to sampling, the core was photographed with labels indicating the site name, date, run number, depth bgs of the top and bottom of the run, recovery, and rock quality designation (RQD). Samples were collected both from fracture surfaces and from the intervening unfractured rock matrix. Samples, approximately 0.1 feet thick, were broken from the core using a hammer and chisel at the selected sample depths. The samples were then immediately wrapped in aluminum foil, placed in a zip

top poly bag and given a unique field ID. Immediately following sampling and wrapping, the samples were delivered to the sample processing area, which was located immediately adjacent to the sampling table inside a Stone support truck. Details on sample depths, collection times, position relative to fractures, and other relevant information were recorded on field sheets. After completion of geologic logging and sample collection the remainder of the core was transferred into core boxes. Wood spacers labeled with each samples' unique field ID were placed in the core boxes to mark sample locations for future reference.

Immediately after samples arrived at the processing area samples were unwrapped and placed in a stainless steel trimming cell one at a time, where the outer portion of the sample that had been exposed to drilling fluids, was removed with a hammer and chisel. The remaining subsample was then placed in a stainless steel cell and crushed using an hydraulic press. Subsamples were crushed under a pressure of approximately 6,000 psi. The crushed subsample was then immediately transferred to a pre-labeled 40 mL VOA vials containing 15 mL of purge-and-trap grade methanol. Times for the samples to be trimmed, crushed and preserved in vial with methanol were recorded on field forms, as along with the field ID to allow association with the client sample ID.

Trimming cells, crushing cells, chisels, and all other equipment associated with sample processing were decontaminated between each subsample. Stone provided 5 sets of trimming cells, crushing cells, and chisels enabling staff to process all samples from a given run before starting the five step decontamination process. The five step decontamination process involves: (1) full immersion in phosphate free detergent wash with scrubbing to remove sediment, (2) full immersion in distilled water, (3) spray rinse with clean wash-grade methanol, (4) spray rinse with clean distilled water to remove any traces of methanol, and (5) drying with clean/disposable towels before next use. Equipment Blanks (EBs) were collected every 20th sample. To collect EBs Kim-wipes were removed from a pre-prepped and pre-labeled vial containing 15 mL of purge-and-trap grade methanol then used to wipe the inside of decontaminated crushing cells and other equipment that had come in contact with subsamples. Kim-wipes were then replaced into the pre-labeled vials they were taken from. EBs were analyzed for VOCs on site.

Sample vials were prepared in the field usually the day of, or day prior to, sample collection. Vials were labeled and weighed before the addition of methanol, after the addition of 15 mL of purge-and-trap grade methanol, and again after the addition of crushed rock. Calibration of the balance was checked at least daily. Sample vial IDs were cross referenced with the field ID, which in turn references a sample depth. Sample depths were used to generate client sample IDs which are unique to each sample depth and drilling location. Each sample was labeled with its client sample ID then put in a cooler with ice until transported to the Stone laboratory on-site. Subsamples were transported to the Stone lab under Chain of Custody (COC), generally after twelve subsamples had been processed.

In total, 423 samples were collected for VOC analysis from 824 ft of core retrieved for an average sample spacing of 1.95 ft (Table X). 21 field duplicates (= 5%) were collected by crushing additional mass of selected field samples. A methanol blank (MB) was collected from each 1L bottle of purge-and-trap

grade methanol used to prepare 40 mL VOA vials. The MBs were stored separately from all other samples. A total of 8 MBs were collected. MBs are used to determine possible contamination in the methanol used to preserve and extract samples.

2.3. Physical Property Sample Collection

In total, 41 three to fourteen inch intact core samples were collected from the cores for analysis of physical parameter measurements (porosity and bulk density). Two field duplicates were also collected for physical parameter measurement. Approximately one sample was selected from every twenty feet of core retrieved. In a run where a physical parameter sample was selected VOC sample collection was completed before collecting the physical parameter sample. Sample depth intervals were recorded on field forms. Samples were wrapped first with aluminum foil, then saran wrap, and then sealed in a plastic bag with a vacuum sealer to limit moisture loss. For shipping each sample was individually bubble wrapped and shipped on ice under COC to Golder Associates lab in Mississauga, Ontario.

2.4. PCB Sample Collection

PCB samples were collected as splits of all VOC samples at locations MW14 and MW16. When PCB and VOC samples were selected at a fracture the VOC sample was collected from the bottom fracture surface and the PCB sample was collected from the top fracture surface. When PCB and VOC samples were selected from the unfractured rock matrix a thicker subsample (approximately 0.2 ft) was broken from the core using a hammer and chisel allowing more undisturbed rock to be crushed once the outer portion of the subsample was trimmed.

The trimmed rock was crushed and approximately 100 grams of the crushed rock was placed in an unpreserved glass sample jar. The sample jar containing the crushed rock was weighed to make sure that there was at least 100 grams of crushed rock in the sample jar. The PCB samples were labeled and relinquished to the MPI sample manager.

PCB duplicate samples were not collected from the same depths as the VOC duplicates due to the volume of rock that needed to be processed and the time constraints of the sampling process (crushing a VOC duplicate and PCB duplicate along with the other samples for a particular coring run was more work than could be done in the time between core runs). In total, 212 samples were collected from the cores for PCB analysis, 21 field duplicates (>5%) were collected by crushing additional mass of selected field sample.

2.5. TOC Sample Collection

TOC samples were collected from the same locations and frequency (every 20 feet) as the physical properties samples. A depth was selected from the core run and the TOC sample was collected below this depth and the physical properties sample was collected from above. The TOC samples were collected and processed in the same manner as VOC samples. Approximately 10 grams of crushed rock

was placed in an unpreserved glass sample jar and relinquished to the MPI sample manager. In total 41TOC samples were collected along with 3 duplicate samples.

Deviations: One TOC sample, CDEMDMW16043.50TOC was collected but not analyzed because it was left in the sampling truck overnight and not refrigerated.

3. LABORATORY ANALYSIS AND VOC EXTRACTION

Sample extraction and analysis were performed April 21-24, 2009 at the on site laboratory. Microwave assisted extraction (MAE) was used for VOC mass extraction into the methanol. The methanol extracts were analyzed for nine target VOCs: 1,1,1 Trichloroethane (1,1,1-TCA), 1,1,2 Trichloro 1,2,2 trifluoroethane (Freon113), 1,1 Dichlorothene (1,1 DCE), Carbon Tetrachloride (CT), Chloroform (CF), cis 1,2-Dichloroethene (c-DCE), Tetrachloroethene (PCE), trans 1,2 Dichloroethene (t-DCE), Trichloroethene (TCE).

Reporting limits (RL) for all analytes ranged from 1 to 10 ug/L in methanol extract, with the exception of several analytes which had slightly elevated reporting limits due to the presence of these analytes in various QC blank samples. Minor deficiencies relative to QA/QC criteria were observed within this data set however, as these were minor deficiencies, the VOC analytical data derived from these analyses is deemed by Stone as suitable to use for the purposes of this report. A full laboratory report, containing summaries of the QA/QC samples (including: lab duplicates, matrix spikes, method blanks and laboratory control standard checks) and describing in more detail the blank contamination and minor QA/QC deficiencies, is included in Appendix B.

4. RESULTS

The following sections provide the results of the rock core chemical analyses and a discussion of the method of estimation of porewater concentration and total VOC mass estimated from that data.

4.1. Rock Core VOC Results and Porewater Estimates

A summary of rock core sample locations is provided in Table 1. Estimates of porewater concentrations are provided in Appendix A in Table A2.

The concentrations of the analytes extracted into methanol (C_{MEOH}) were measured using GC/µECD methods as µg/L in methanol. The concentration of analytes in the bulk rock (C_t) sample was then calculated using the analysis of the methanol extract (C_{MEOH}), mass of crushed rock in sample (M_{rock}) and volume of methanol (V_{MEOH}) as follows:

$$C_t = \frac{C_{MeOH} x V_{MeOH}}{M_{rock}}$$

Note; sample RLs can be calculated for each sample from the above equation by setting the C_{MEOH} to their respective values for each analyte; for samples where analyte concentrations are between the MDL and the RL, an estimated value has been assigned and the results flagged with a "J"; samples flagged with a "B" designation indicate blank contamination associated with the sample. The lithology and fractures as observed by the Field Geologist are depicted next to the plots in Figures 1, 2 and 3. This calculation reflects VOC mass present in dissolved, sorbed, and immiscible phases.

The bulk rock VOC concentrations (C_t) are converted to matrix pore water concentrations (C_w) in µg/L of pore water utilizing the wet rock bulk density in g/cm^3 ($\rho_{b(wet)}$), the dry rock bulk density ($\rho_{b(dry)}$) in g/cm^3, matrix porosity a unitless factor (Φ), and the soil-water partitioning coefficient (Kd) in mL/g as shown below:

$$C_w = \frac{C_{t\,Pb(wet)}}{KdPb(dry)+\emptyset}$$

This equation assumes that the rock matrix porosity (i.e., primary porosity) is 100% saturated with water and that the VOC mass occurs in only the dissolved and sorbed phases (i.e., no NAPL is present). Pore water concentrations that approach or exceed aqueous solubility may indicate the presence of DNAPL (Feenstra et al, 1991).

The pore water concentration results of the sampling and analysis for TCE and cDCE are shown graphically versus depth for boreholes MW-14, MW-16 and MW-20 on Figures 1, 2, and 3 respectively.

The partitioning coefficient (k_d)is based on the assumption that sorption is rapid, reversible and that there is no variation with concentration. This coefficient is calculated using the organic carbon portioning coefficient (K_{oc}) for each compound and is obtained from the literature (e.g. Pankow and Cherry, 1996), and fraction of organic carbon (f_{oc}) obtained through physical property analysis using the following formula:

$$K_d = K_{oc} f_{oc}$$

This coefficient assumes that sorption is entirely dependent upon solid phase organic carbon in the rock matrix, this being a reasonable assumption for the low molecular weights of the chlorinated ethenes of interest (Schwarzenbach et al. 1993).

Physical parameter tests were conducted by Golder Associates. Laboratory results for these analyses are provided in Appendix C. The values for porosity (∅) and bulk density (ρ_b) were used to estimate matrix porewater concentrations. The organic carbon portioning coefficient (K_{oc}) for each compound was obtained from the literature (e.g. Pankow and Cherry, 1996), with the exception of 1,1,2-Trichloro-1,2,2-trifluoroethane which was obtained from an EPA reference (United States EPA, 1994). The following table summarizes the (K_{oc}) values used to calculate matrix porewater concentrations.

Volatile Organic Compound	***K_{oc}* Value (mL/g)**
1,1,1-trichloroethane	152
1,1,2-Trichloro-1,2,2-triflouroethane	372
1,1-Dichloroethene	65
Carbon tetrachloride	439
Chloroform	44
Cis-1,2-Dichloroethene	86
Tetrachloroethene	364
Trans-1,2-Dichloroethene	59
Trichloroethene	126

K_d values were quite variable spatially and this has a significant effect on calculated pore water concentrations. Figures 4 and 5 show the vertical distribution of the TCE K_d for boreholes MW-14, MW-

20 and MW-6 respectively. Note that the scales on the two plots are different. Figure 5, which shows the results for MW-16 ranges from 0 mL/g to 30 mL/g while the plot for MW-14 and MW-20 ranges up to 5 ml/g. This is due to an f_{oc} measurement of 0.2% from MW-16 at approximately 220 ft bgs. This anomalously high f_{oc} value results in a K_d value that is approximately an order of magnitude greater than all of the other values. The TCE concentrations measured in this portion of the MW-16 borehole are characterized by low concentrations in the rock, so the effect of the high K_d value is not particularly significant in terms of calculating pore water concentrations. With the exception of the outlier in MW-16 the K_d typically varied within a factor of 3 between approximately 1.5 to 4.0 mL/g.

f_{oc} was measured above the detection limit in:

- 8 out of 11 (73%) samples in MW-14;
- 6 out of 28 (33%) samples in MW-20; and
- 4 out of 11 (36%) samples in MW-16

VOC concentrations in rock (as ug/Kg) are shown in Table A1. Estimated pore water concentrations for each sample are shown in Table A2. These concentrations were calculated using the porosity (∅) and bulk density (ρ_b) as reported by Golder Associates from the physical properties sample collected closest to a given VOC sample.

4.2. Results from Field Blanks and Duplicates

Field blank results including equipment blanks (EBs), methanol blanks (MBs), and trip blanks (TBs) are provided with the Analytical Report in Appendix B. Of the nine target analytes there were detections of 1,1-DCE (0.63-0.98 ppb), t-DCE (2-2.5 ppb), CF (0.12-0.88), CT (0.15-0.34), and 1,1,1-TCA (0.10 – 0.38). Rather than qualification of the sample results with the “B” qualifier, blank contamination was evaluated in accordance to the EPAs National Functional Guidelines for Organic Data Review (EPA 540/R-99/008, 10/99) which allows for adjustment of the reporting limit based on the blank contamination (action limit=concentration x 5). Therefore, based on the blank contamination observed in the various field and laboratory blanks, positive results detected below the reporting limits for 1,1-dichloroethene and trans-1,2-dichloroethene in all samples were qualified as less than the reporting limit (U), positive results for chloroform in all samples were qualified as less than the adjusted reporting limit of 4.5 U, and positive results for carbon tetrachloride and 1,1,1-trichloroethane were qualified as less than the adjusted reporting limit of 2 U. Field blanks were not qualified based on laboratory or other blank contaminations.

Comparisons for the twenty-one field samples with corresponding field duplicate samples are provided in Table 5. In a few samples, target VOCs were observed in only one of the paired field/field duplicate samples (1,1,1-TCE in three cases, and CIS in one case). Except for 1,1,1-TCE and CIS, one pair for each, the concentrations detected were below RLs. This comparison and the Relative Percent Difference

(%RPD) calculations show reasonable correlation for the limited number of samples where target analytes were detected in both paired field/field duplicate samples. Variation in concentration between field/field duplicate samples can be largely attributed to the difficulty in collected true duplicates, given the spatial variability in concentrations and rock matrix properties expected at the scale of sub-sampling. Field duplicates also test and reflect the repeatability of the entire sample processing, extraction and analytical procedures, and thus are expected to show more variability than lab duplicates.

5. CONCLUSION

TCE was the predominant VOC present in the rock matrix, followed by cis 1,2-DCE. Cis 1,2-DCE was present at concentrations similar to or higher than TCE in the upper portion of MW-14, but was not detected below approximately 78 ft bgs. In MW-16 cis 1,2-DCE was present at concentrations similar to or slightly less than TCE in the upper portion of the hole but was not detected below a depth of approximately 200 ft bgs. Cis 1,2-DCE was not detected at all in MW-20.

PCE was the third most frequently detected VOC in terms of non-flagged (e.g., J values below the reporting limit and B values indicating contamination in the blank) values with 27 detections. PCE was detected in MW-14 25 times in the upper 60 ft of the borehole and was detected in two samples from MW-16 (at approximately 125 ft bgs) but was not detected in MW-20.

The table below summarizes the occurrence of TCE in rock (ug/kg) in the three boreholes. For purposes of determining the minimum and mean values, the detection limit was used where TCE was not detected, thus the means are likely biased high. None-the-less they are valuable for comparing the locations to one another.

	MW-14	MW-16	MW-20
max (ug/kg)	7700	390	48
min (ug/kg)	0.47	0.48	0.24
mean (ug/kg)	629	83	7
Total depth (ft)	233	254	413
Number of samples	104	108	211
Avg sample spacing (ft)	2.24	2.35	1.96
# detections	73	99	173
% det	70%	92%	82%

While MW-14 had the highest concentrations of TCE, it had the lowest frequency of detection at 70% compared to 92% and 82% in MW-16 and MW-20 respectively. The peak TCE concentrations at MW-14 are an order of magnitude higher and the mean is nearly an order of magnitude higher than those in MW-16 and nearly two orders of magnitude higher than those in MW-20

In terms of estimated pore water concentrations, the highest concentrations in MW-14 (120,000 µg/L) are over an order of magnitude below the solubility of TCE in water.

The rough vertical distribution of TCE in the rock matrix is presented in the table below.

MW-14			**MW-16**			**MW-20**		
Conc Range (ug/kg)	from (ft)	to (ft)	Conc Range (ug/kg)	from (ft)	to (ft)	Conc Range (ug/kg)	from (ft)	to (ft)
10,000's	22	62	100's	25	45	ND	29	88
100's	62	67	1000's	46	78	100's	89	95
1,000's	68	68	100's	79	115	10's	96	126
ND to 100's	72	83	1000's	117	155	100's	131	133
ND to 1's	90	113	100's	156	173	10's	134	162
10's	114	150	1000's	174	178	ND	163	172
1's	150	165	100's	179	200	10's to 100	172	195
10's	166	180	10's	201	206	Low 10's	196	211
1' to 10	180	233	ND to 1's	207	232	1's	211	216
			10's	233	247	10's	216	223
			100's	251	251	100's	224	237
						10's	238	244
						ND	245	255
						100's	255	348
						10's	348	382
						1's to 10's	382	394
						10's	394	412

It is clear that TCE concentrations greater than 10's of µg/kg are limited to shallower depths in MW-14 than in MW-16 or MW-20. In MW-14 the concentrations decrease by 3 orders of magnitude in the first 100 feet. In contrast, TCE concentrations are distributed much more evenly with depth in MW-16. In MW-20 the concentration variability is more strongly associated with specific zones in the borehole.

In order to look at the distribution of TCE mass in the boreholes, the mass/m^2 of area was calculated for each borehole. These values were determined by multiplying the TCE concentrations (in µg/kg wet rock) at each sample depth by the representative depth interval (taken as half the distance between samples above and below the depth of interest) and by the rock bulk density. The mass attributed to each interval was summed for each corehole to provide a scaling estimate of the total mass of target analytes that could be present on a unit area basis. These data are summarized by 50 foot section of borehole below for each of the three boreholes.

Mass Distribution (mass per square meter of rock column)									
	MW-14			MW-16			MW-20		
Section of Rock column (ft bgs)	TCE (kg)	TCE (gal)	% of Total	TCE (kg)	TCE (gal)	% of Total	TCE (kg)	TCE (gal)	% of Total
0 - 50	0.0675	0.0122	77%	0.0017	0.0003	12%	0.0000	0.0000	1%
50 - 100	0.0198	0.0036	23%	0.0048	0.0009	34%	0.0001	0.0000	6%
100 - 150	0.0001	0.0000	0%	0.0054	0.0010	38%	0.0002	0.0000	6%
150 - 200	0.0001	0.0000	0%	0.0022	0.0004	16%	0.0002	0.0000	8%
200 - 250	0.0000	0.0000	0%	0.0002	0.0000	2%	0.0002	0.0000	10%
250 - 300							0.0008	0.0002	34%
300 - 350							0.0006	0.0001	25%
350 - 400							0.0002	0.0000	9%
Total	0.0875	0.0158		0.0143	0.0026		0.0025	0.0004	

The data in the table above show that essentially all of the mass in MW-14 is present in the upper 100 feet of the borehole and most of the mass is present in the upper 50 ft. At MW-16 the majority of the mass is present at depths between 50 and 150 ft bgs with very little mass present in the upper 50 ft. In MW-20 the majority of the mass is present between 250 and 350 ft bgs with relatively little mass present in the upper 200 feet.

6. REFERENCES

Pankow, J.F. and J.A. Cherry. 1996. Dense Chlorinated Solvents and other DNAPLs in Groundwater. Waterloo Press, Portland, Oregon.

Schwarzenbach, R., P. Gschwend, and D. Imboden. 1993. Environmental Organic Chemistry. John Wiley and Sons Inc., New York.

USEPA (1999). USEPA Contract Laboratory Program, National Functional Guidelines for Organic Data Review, EPA540/R-99/008, October 1999.

LIST OF FIGURES

Figure 1: MW-14

Figure 2: MW-16

Figure 3: MW-20

Figure 4: Partitioning Coefficient MW-14 and MW-20

Figure 5: Partitioning Coefficient MW-16

FIGURE NO: 1 Page 1 of 5
BORING: MW-14
LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 2/5/2009 - 3/3/2009
Logged by: C. Hofer
Sampled by: V. DeLeone

DATE/INITIALS: 4/26/10 jab

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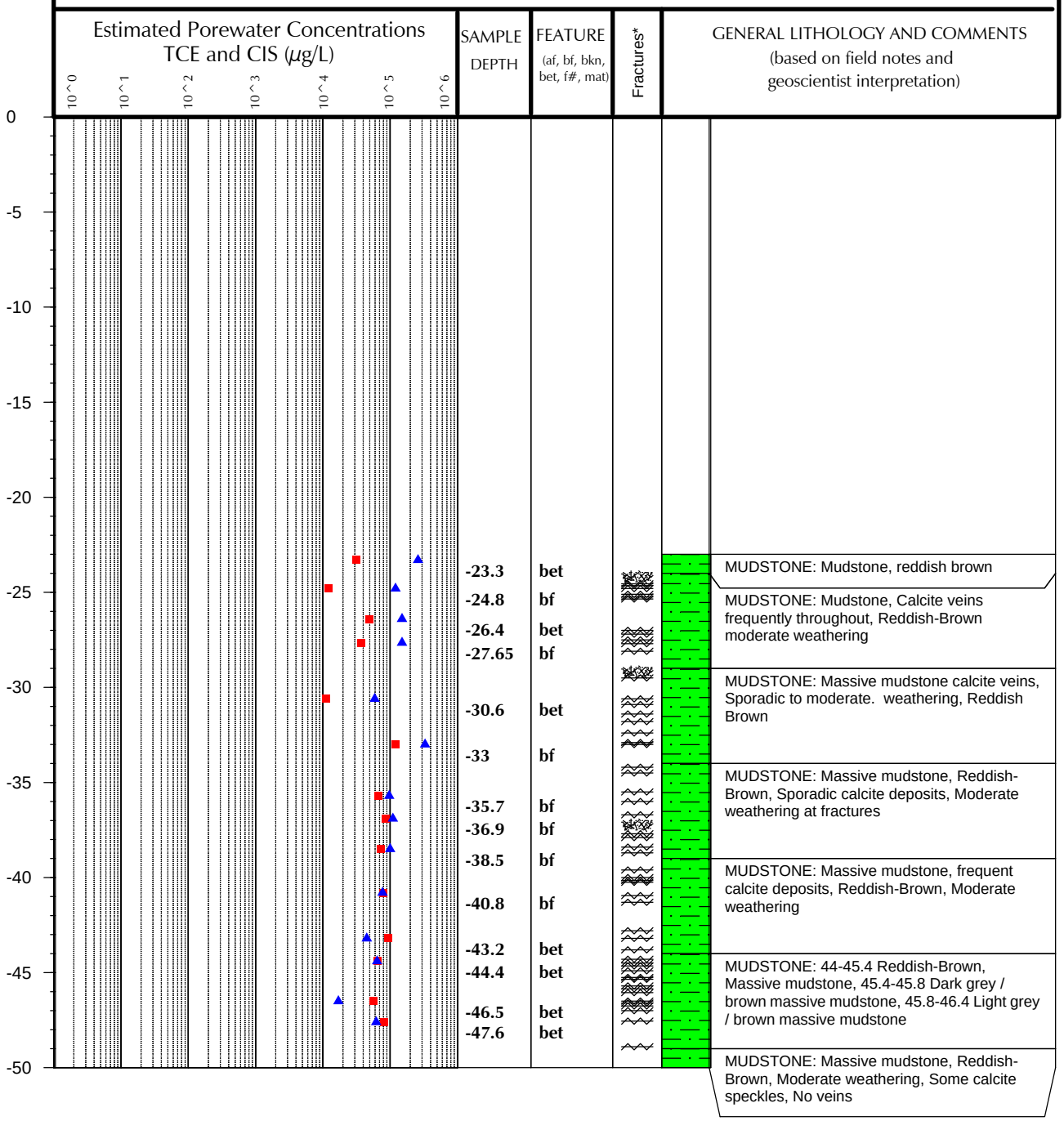

NOTES:

■ = Detections of Trichloroethene
▲ = Detections of cis-1,2-Dichloroethene
□ = Non-detects of Trichloroethene
△ = Non-detects of cis-1,2-Dichloroethene

tf = Top of feature
bf = Bottom of feature
bet = Between feature
f# = Inches from feature
bkn = Crumbled feature

mat = Matrix feature
= Fracture
= Highly fractured zone
= Rubble
µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

R2-0016706

FIGURE NO: 1 Page 2 of 5
BORING: MW-14
LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 2/5/2009 - 3/3/2009
Logged by: C. Hofer
Sampled by: V. DeLeone

DATE/INITIALS: 4/26/10 jab

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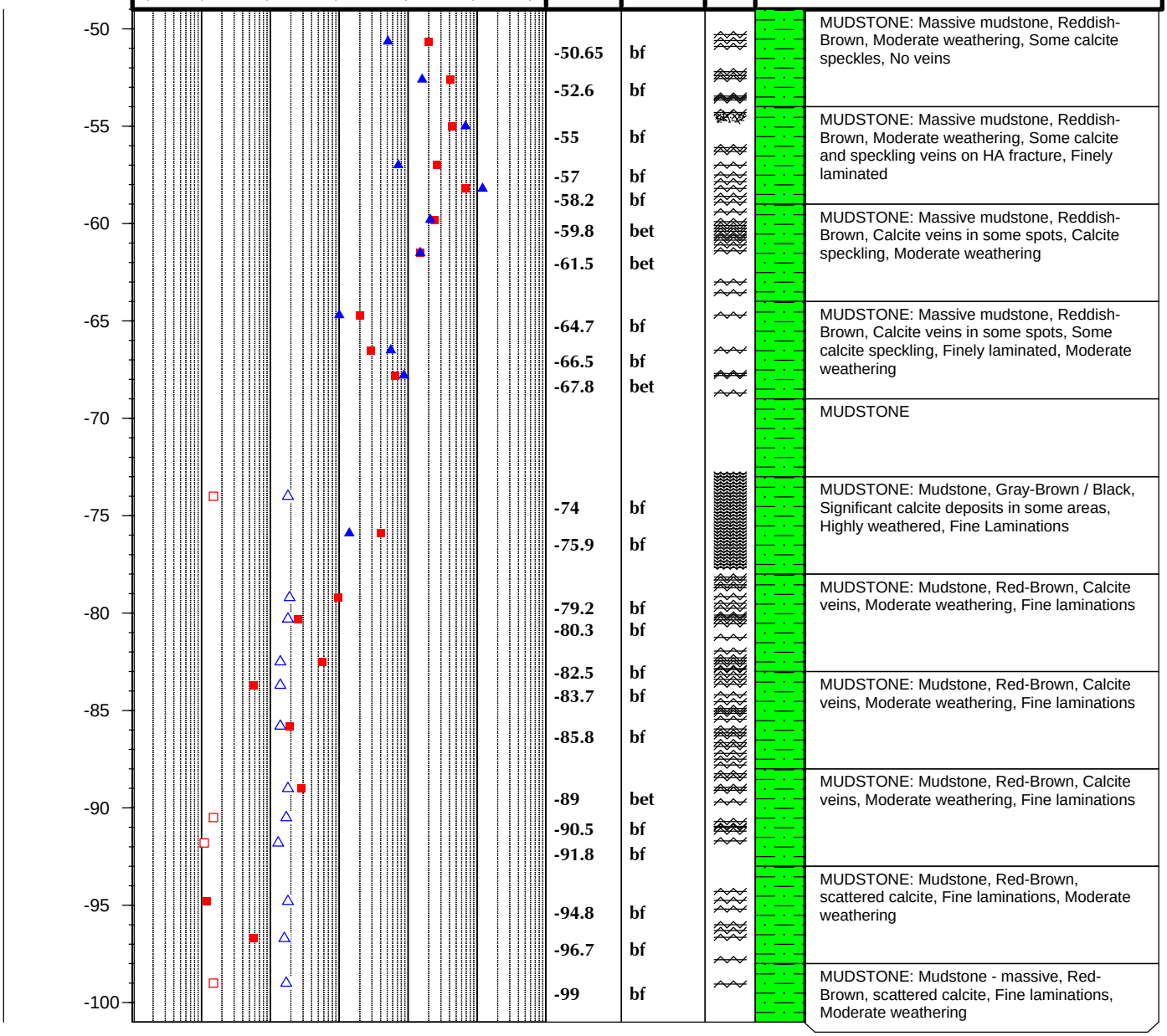

NOTES:

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f# = Inches from feature
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mat = Matrix feature
= Fracture
= Highly fractured zone
= Rubble
µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO:1 Page 3 of 5

BORING: MW-14

LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 2/5/2009 - 3/3/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 4/26/10 jab

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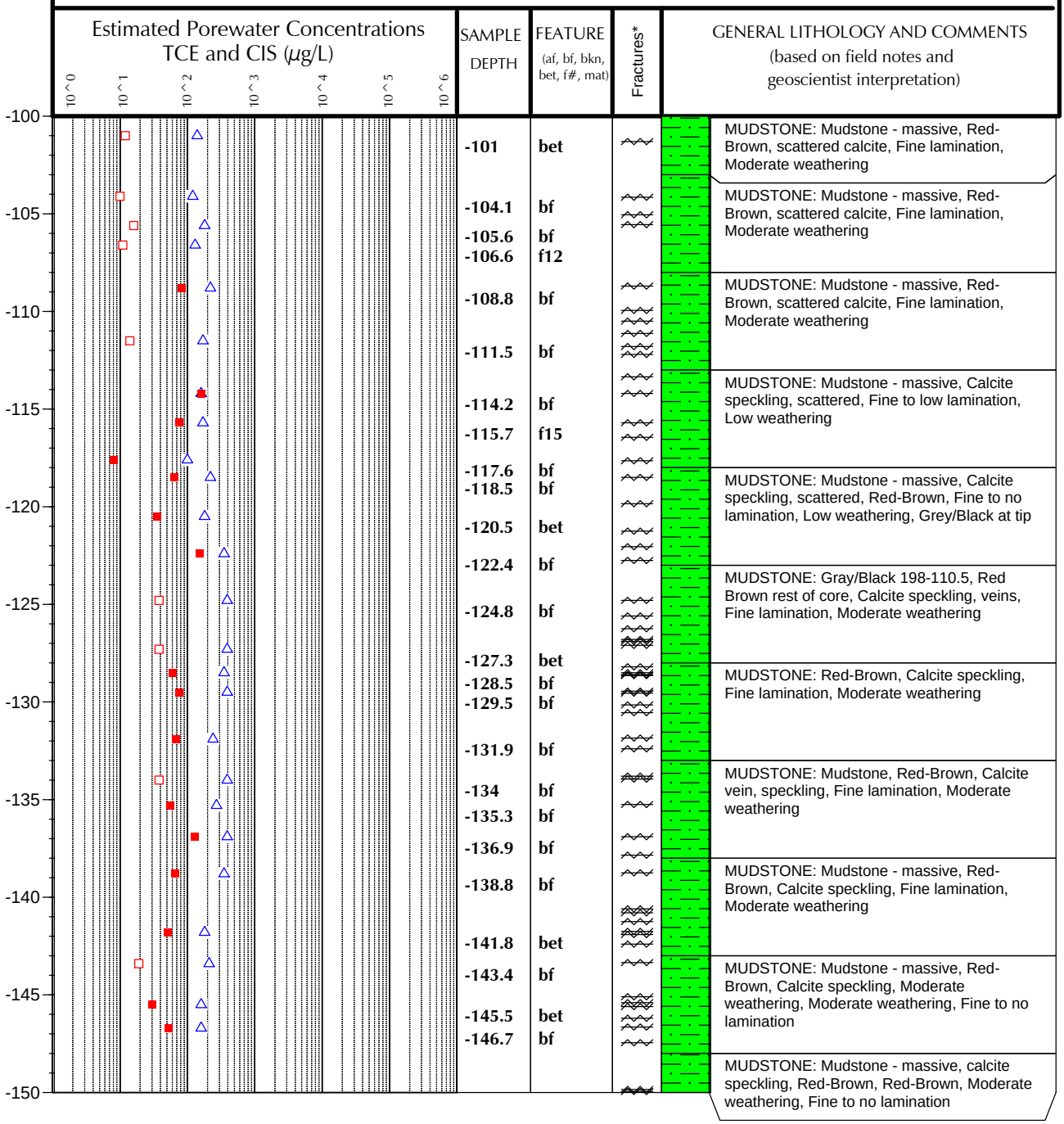

NOTES:

■ = Detections of Trichloroethene

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□ = Non-detects of Trichloroethene

△ = Non-detects of cis-1,2-Dichloroethene

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f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 1 Page 4 of 5

BORING: MW-14

LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 2/5/2009 - 3/3/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 4/26/10 jab

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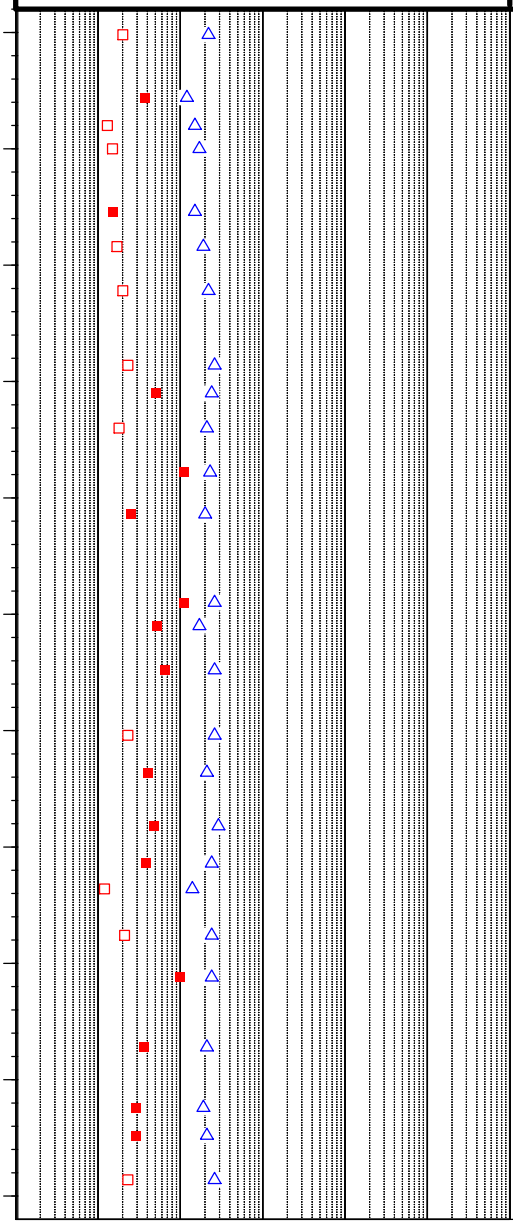

SAMPLE DEPTH	FEATURE (af, bf, bkn, bet, f#, mat)	Fractures*	GENERAL LITHOLOGY AND COMMENTS (based on field notes and geoscientist interpretation)
-150.1	bf		MUDSTONE: Mudstone - massive, calcite speckling, Red-Brown, Moderate weathering, Fine to no lamination
-152.8	bf		MUDSTONE: Mudstone - massive, Calcite speckling, Red-Brown, Moderate weathering, Fine to no lamination
-154	bf		
-155	bf		
-157.7	bf		MUDSTONE: Mudstone - massive, Calcite speckling, Red-Brown, Moderate weathering, Fine to no lamination
-159.2	bf		
-161.1	bf		
-164.3	bf		MUDSTONE: Mudstone - massive, Calcite speckling, Red-Brown, Moderate weathering, Fine to no lamination
-165.5	bet		
-167	bf		
-168.9	bf		MUDSTONE: Mudstone - massive, Calcite vein, speckles, Vugs at fracture, Moderate weathering, Fine lamination
-170.7	bf		
-174.5	bf		MUDSTONE: Mudstone, Red-Brown, Moderate weathering, Calcite speckling, Fine to no lamination, Vugs scattered
-175.5	bf		
-177.4	bf		
-180.2	bf		MUDSTONE: Mudstone, Red-Brown, Moderate weathering, Calcite speckling, Some vugs at fracture, Fine to no lamination
-181.8	bf		
-184.1	bf		MUDSTONE: Mudstone, Red-Brown, Moderate weathering, Calcite speckling, Vugs at fractures, Fine lamination
-185.7	bf		
-186.8	bf		
-188.8	bf		MUDSTONE: Mudstone, Red-Brown, Moderate Weathering, Infrequent Calcite deposits, Some Vugging, Fine lamination
-190.6	bet		
-193.6	bf		MUDSTONE: Mudstone, Red-Brown, Moderate Weathering, Infrequent scattered calcite, vugs, Fine lamination
-196.2	bf		
-197.4	bet		
-199.3	bkn		MUDSTONE: Mudstone, Red-Brown, Moderate Weathering, Scattered calcite and vugs, Fine lamination

NOTES:

■ = Detections of Trichloroethene

▲ = Detections of cis-1,2-Dichloroethene

□ = Non-detects of Trichloroethene

△ = Non-detects of cis-1,2-Dichloroethene

tf = Top of feature

bf = Bottom of feature

bet = Between feature

f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 1 Page 5 of 5

BORING: MW-14

LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 2/5/2009 - 3/3/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 4/26/10 jab

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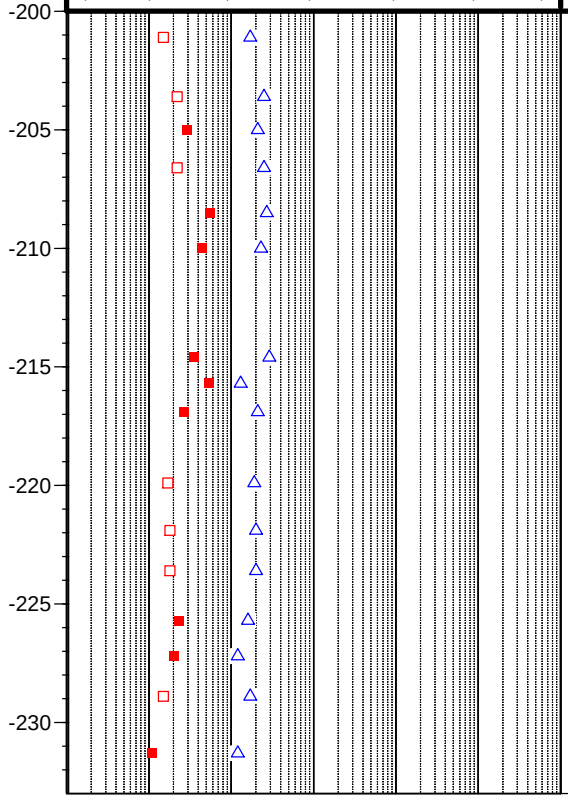

SAMPLE DEPTH	FEATURE (af, bf, bkn, bet, f#, mat)
-201.1	bet
-203.6	bf
-205	bf
-206.6	bf
-208.5	bf
-210	bf
-214.6	bf
-215.7	bf
-216.9	bf
-219.9	bf
-221.9	bf
-223.6	bf
-225.7	bet
-227.2	bet
-228.9	bf
-231.3	bf

Fractures*

GENERAL LITHOLOGY AND COMMENTS (based on field notes and geoscientist interpretation)

- MUDSTONE: Mudstone, Red-Brown, Moderate Weathering, Scattered calcite and vugs, Fine lamination
- MUDSTONE: Mudstone, Red-Brown, Moderate Weathering, Scattered vugs and calcite, Fine lamination
- MUDSTONE: Mudstone-massive, Red-Brown, Scattered calcite, vugging, Moderate weathering, Fine lamination
- MUDSTONE: Mudstone-massive, Red-Brown, Scattered calcite, big vugs at fractures, Moderate to high weathering, Fine lamination
- MUDSTONE: Mudstone-massive, Red-Brown, Scattered calcte, vugs, Moderate weathering, Fine lamination
- MUDSTONE: Mudstone-massive, Red-Brown, Scattered calcite, vugs, Fine lamination, Moderate to highly weathered
- MUDSTONE: Mudstone-massive, Scattered calcite, vugs, Fine lamination, Moderate weathering

NOTES:

■ = Detections of Trichloroethene

▲ = Detections of cis-1,2-Dichloroethene

□ = Non-detects of Trichloroethene

△ = Non-detects of cis-1,2-Dichloroethene

tf = Top of feature

bf = Bottom of feature

bet = Between feature

f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 2 Page 1 of 5
BORING: MW-16
LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 1/21/2009 - 2/2/2009
Logged by: C. Hofer
Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

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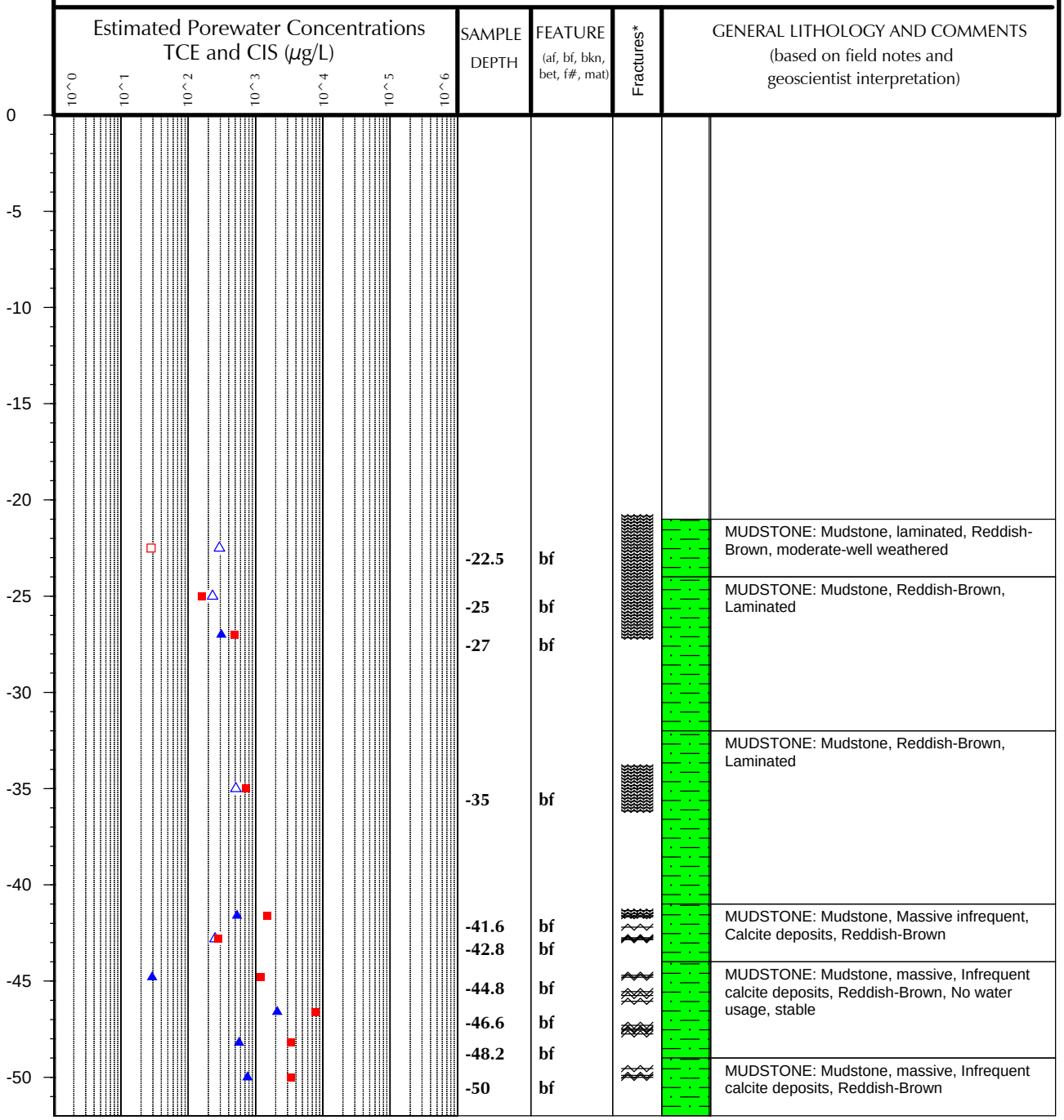

NOTES:

■ = Detections of Trichloroethene
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□ = Non-detects of Trichloroethene
△ = Non-detects of cis-1,2-Dichloroethene

tf = Top of feature
bf = Bottom of feature
bet = Between feature
f# = Inches from feature
bkn = Crumbled feature

mat = Matrix feature
= Fracture
= Highly fractured zone
= Rubble
µg/L = Micrograms per Liter

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FIGURE NO: 2, Page 2 of 5

BORING: MW-16

LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 1/21/2009 - 2/2/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

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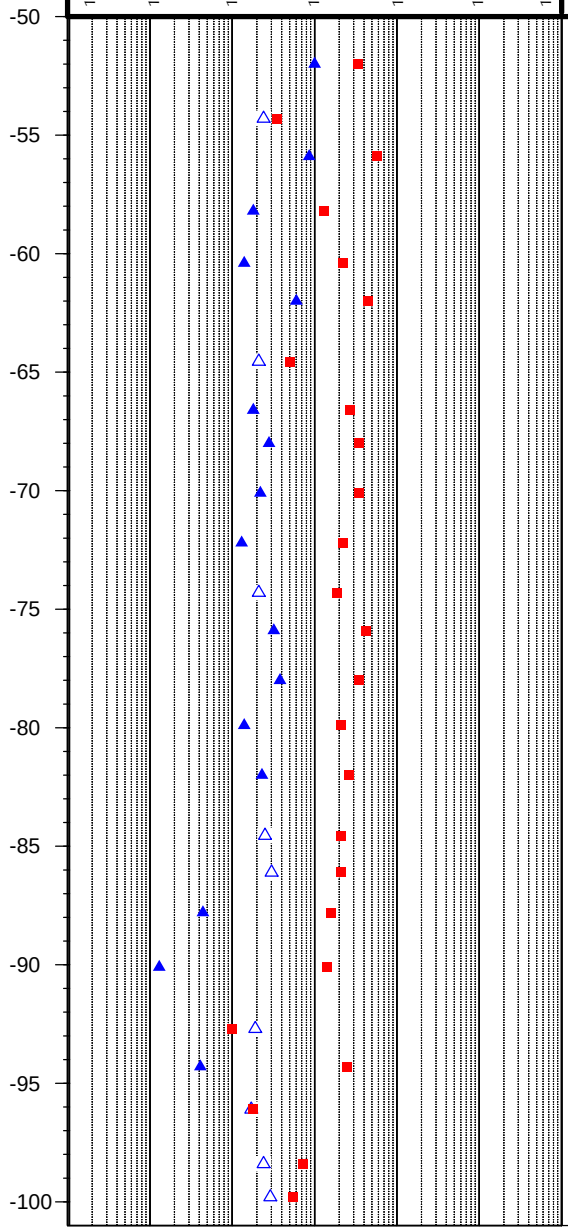

SAMPLE DEPTH	FEATURE (af, bf, bkn, bet, f#, mat)	GENERAL LITHOLOGY AND COMMENTS (based on field notes and geoscientist interpretation)
-52	bf	MUDSTONE: Mudstone, massive, Infrequent calcite deposits, Reddish-Brown
-54.3	bf	MUDSTONE: Massive mudstone, Infrequent calcite deposits, Vugs at core end with calcite, Reddish-Brown
-55.9	bf	
-58.2	bf	
-60.4	bf	MUDSTONE: Massive mudstone, Infrequent calcite deposits and vugs, Possible clay in fractures, Reddish-Brown
-62	bf	
-64.55	bf	MUDSTONE: Massive mudstone, Infrequent calcite deposits and vugs with calcite, crystals weathered out, Reddish-Brown
-66.6	bf	
-68	bf	
-70.1	bf	MUDSTONE: Massive mudstone, Infrequent calcite deposits, Some vugs, Reddish-Brown
-72.2	bf	
-74.3	bf	MUDSTONE: Massive mudstone, Infrequent clay 78-79, Infrequent calcite veins, Reddish-Brown
-75.9	bf	
-78	bf	
-79.9	bf	MUDSTONE: Massive mudstone, Infrequent clay deposits, Reddish-Brown
-82	bf	
-84.55	bf	MUDSTONE: Massive mudstone, Infrequent calcite deposits, Reddish-Brown, Vugs of calcite
-86.1	bf	
-87.8	bf	
-90.1	bf	MUDSTONE: Massive mudstone, Infrequent calcite deposits, Reddish-Brown, Vugs at 89.9-90, 93.6-93.7 with clay deposits, 7 ? Per foot last 2 feet
-92.7	bf	
-94.3	bf	MUDSTONE: Massive mudstone, Infrequent calcite deposits, Reddish-Brown
-96.1	bf	
-98.4	bf	MUDSTONE: Massive mudstone, Infrequent calcite deposits and veins, Reddish-Brown
-99.8	bf	

NOTES:

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▲ = Detections of cis-1,2-Dichloroethene

□ = Non-detects of Trichloroethene

△ = Non-detects of cis-1,2-Dichloroethene

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mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 2 Page 3 of 5
BORING: MW-16
LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 1/21/2009 - 2/2/2009
Logged by: C. Hofer
Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

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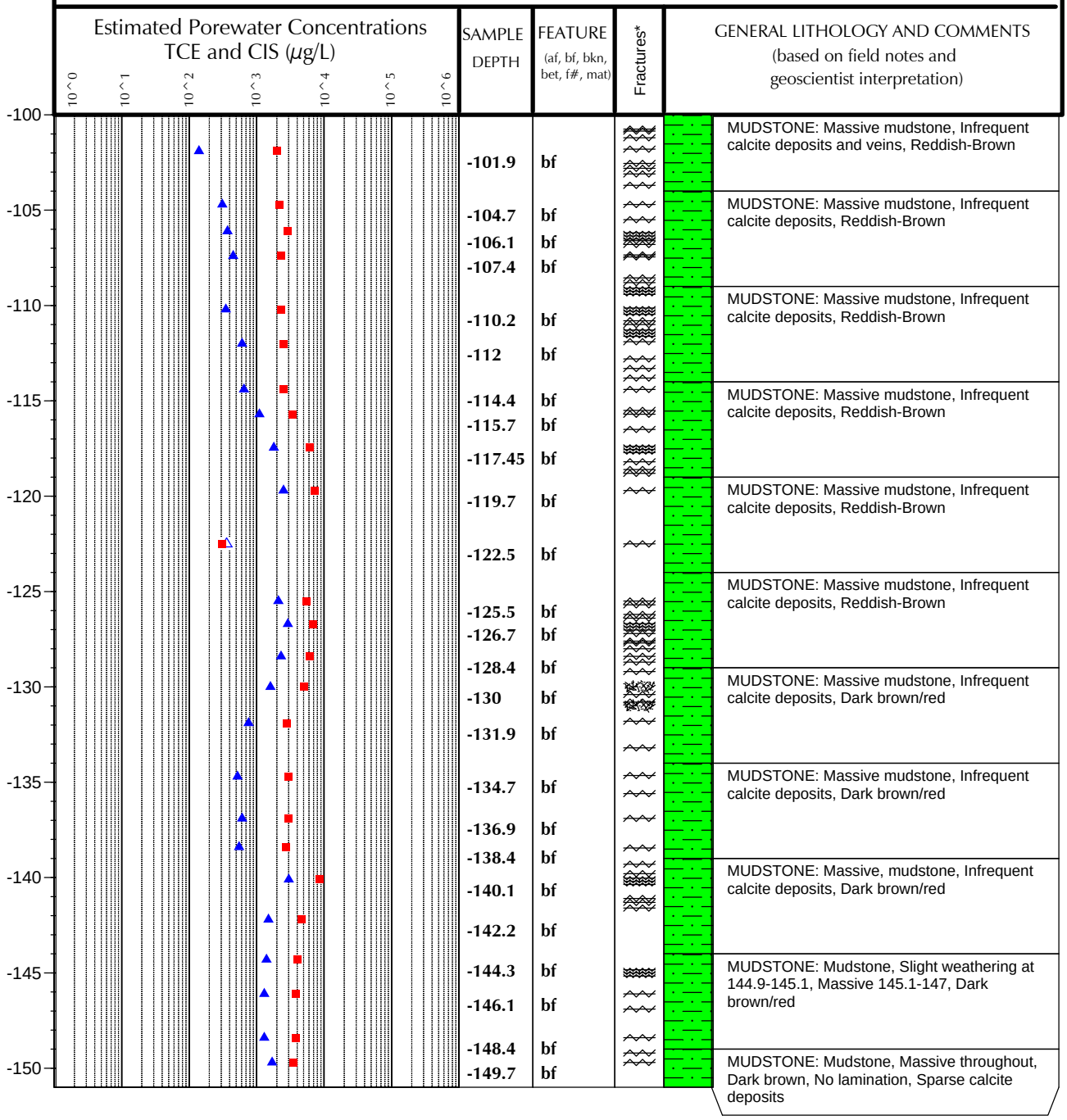

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= Rubble
µg/L = Micrograms per Liter

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FIGURE NO: 2 Page 4 of 5

BORING: MW-16

LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 1/21/2009 - 2/2/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

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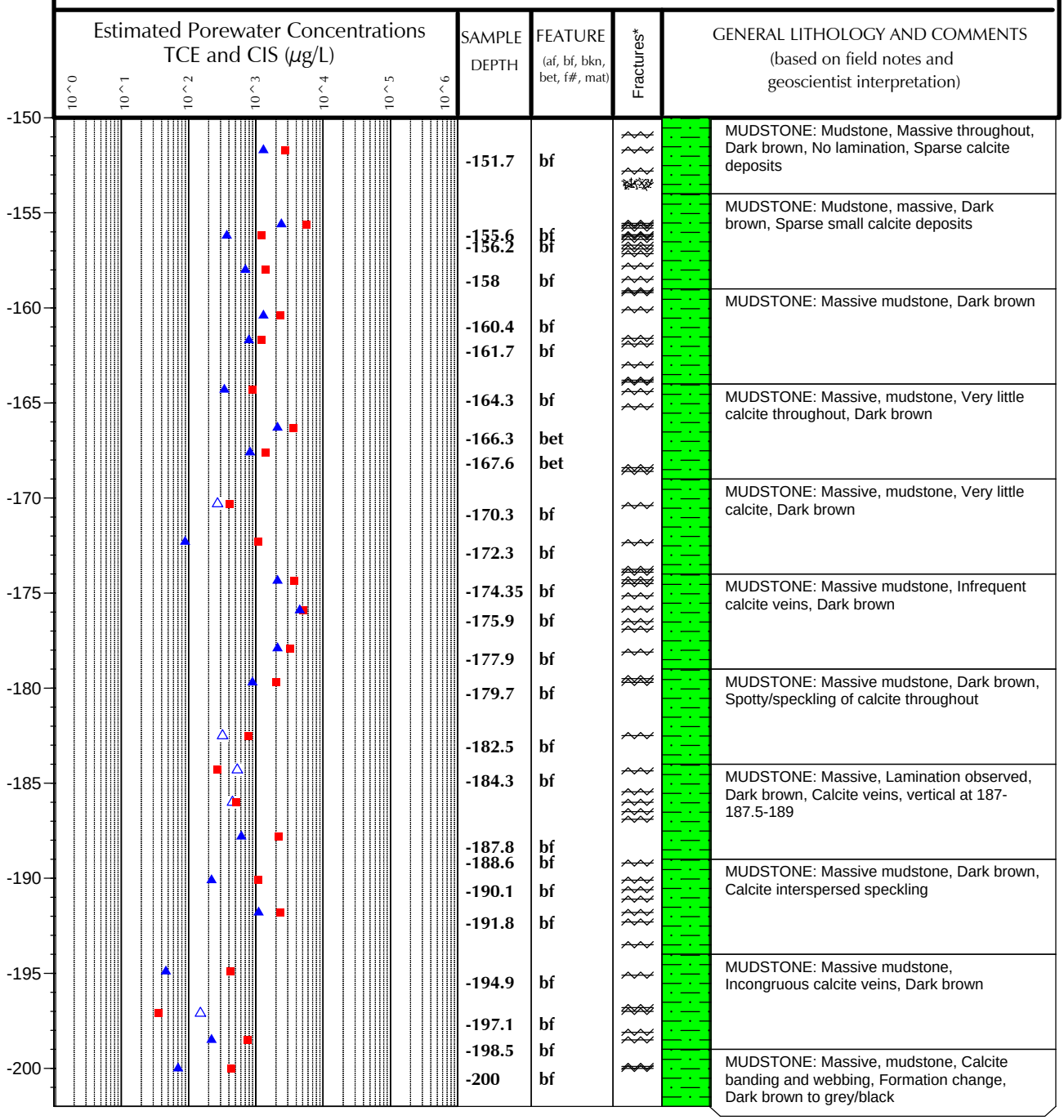

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bet = Between feature

f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

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FIGURE NO: 2 Page 5 of 5

BORING: MW-16

LOCATION: Cornell-Dubilier Electronics

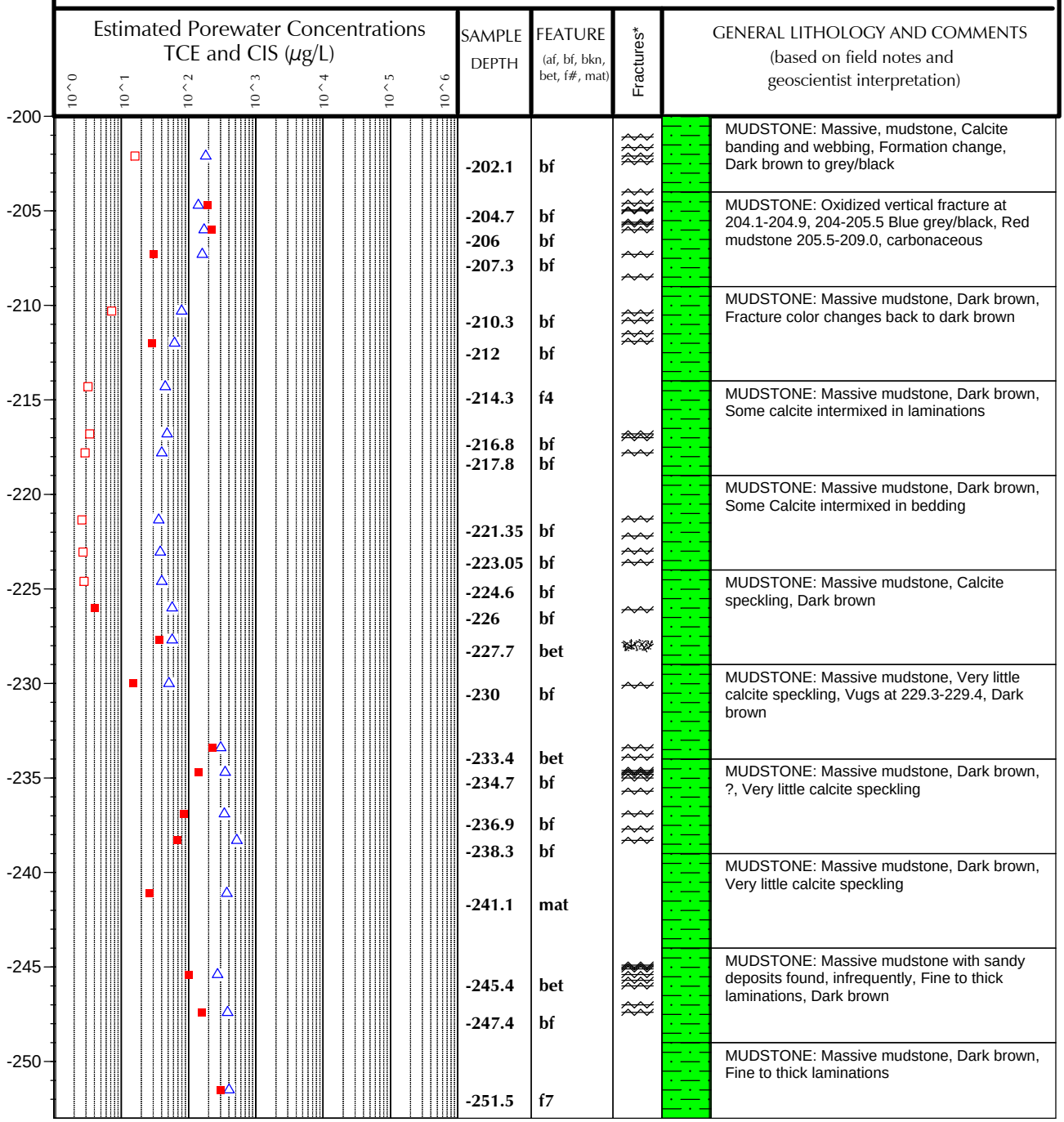
Dates Drilled: 1/21/2009 - 2/2/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

STONE ENVIRONMENTAL INC



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mat = Matrix feature

= Fracture

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= Rubble

µg/L = Micrograms per Liter

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FIGURE NO: 3 Page 1 of 9

BORING: MW-20

LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 2/9/2009 - 2/25/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

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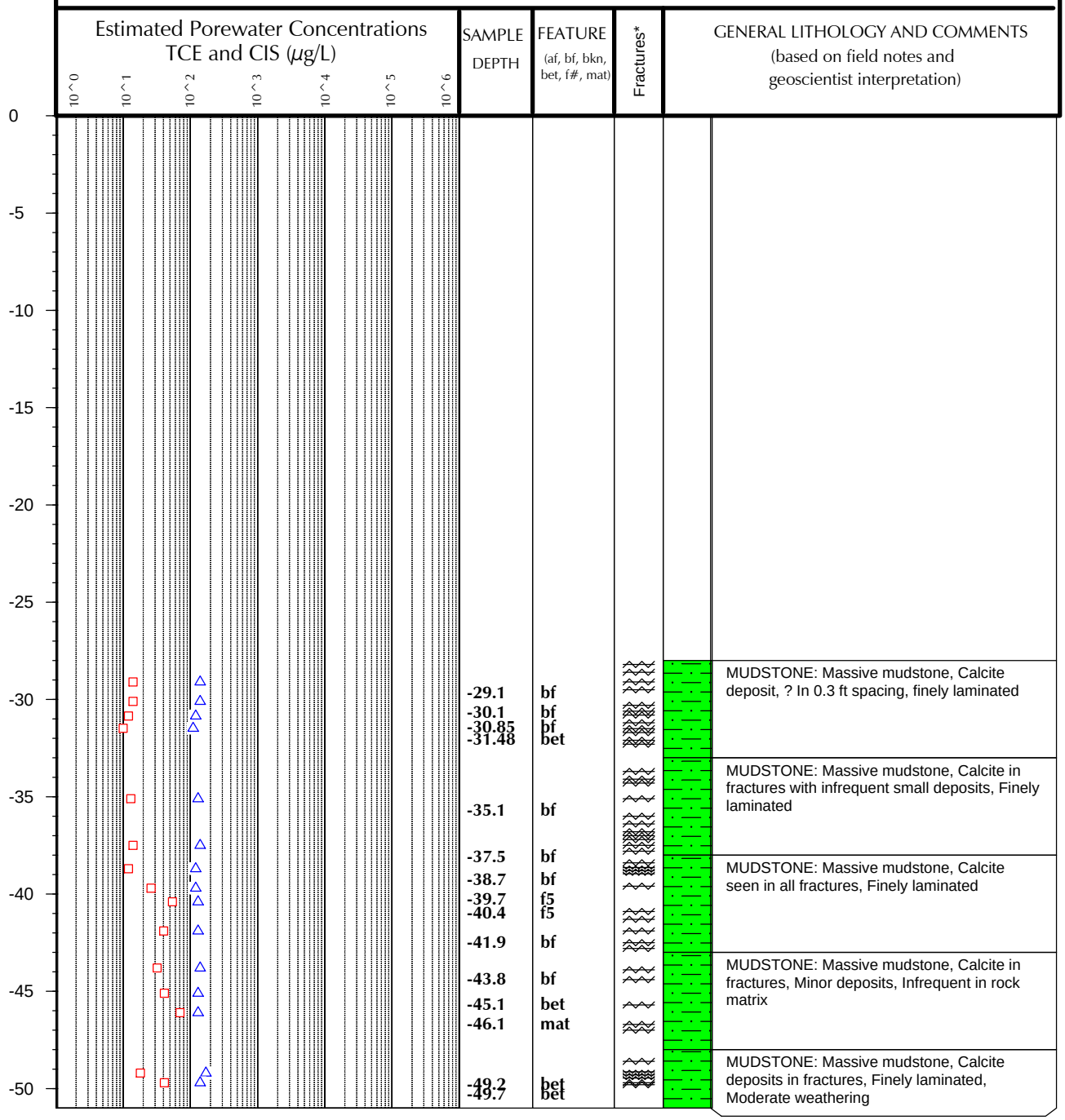

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bf = Bottom of feature

bet = Between feature

f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 3 Page 2 of 9

BORING: MW-20

LOCATION: Cornell-Dubilier Electronics

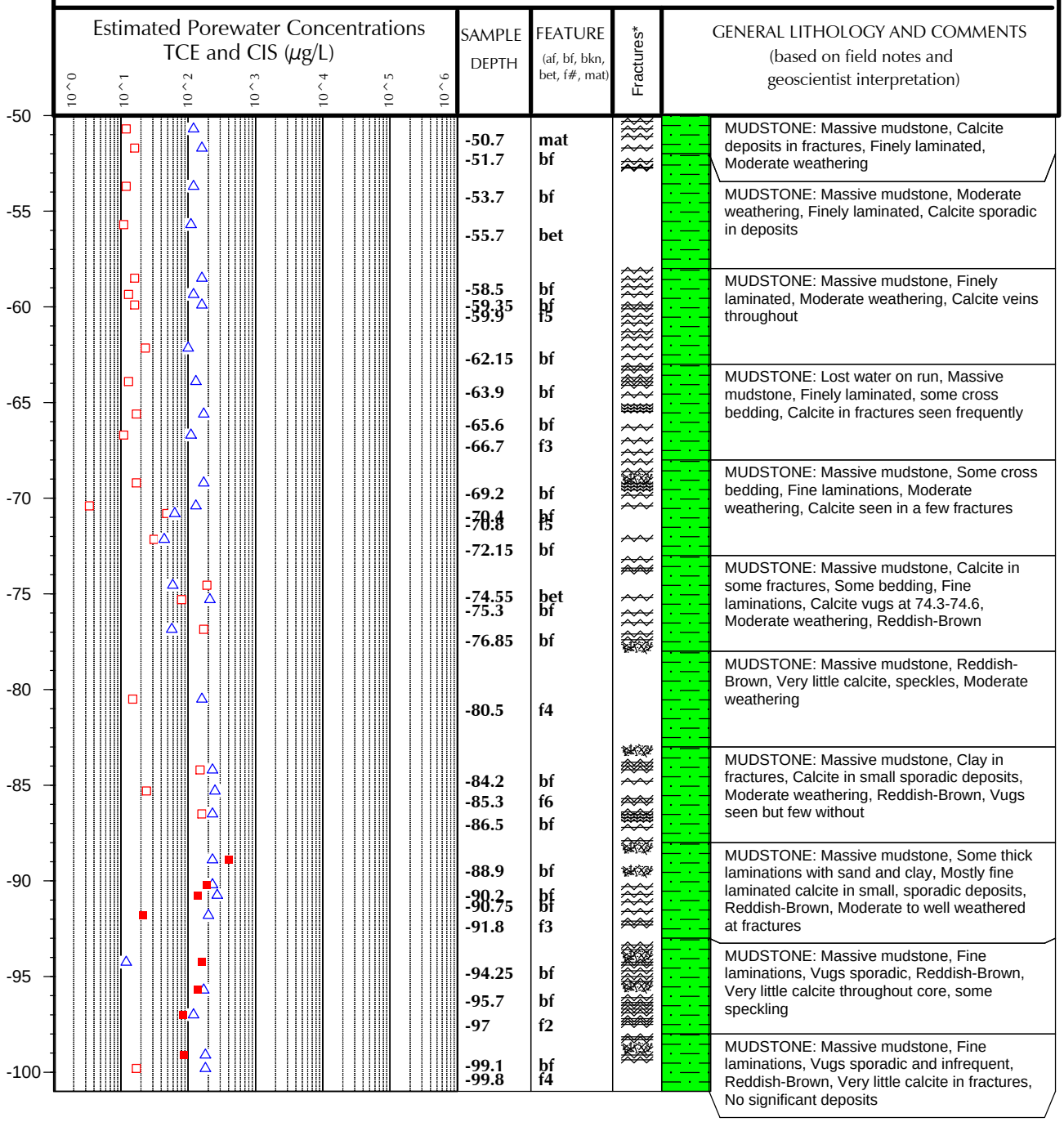
Dates Drilled: 2/9/2009 - 2/25/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

STONE ENVIRONMENTAL INC



NOTES:

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f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

R2-0016717

FIGURE NO: 3 Page 3 of 9

BORING: MW-20

LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 2/9/2009 - 2/25/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

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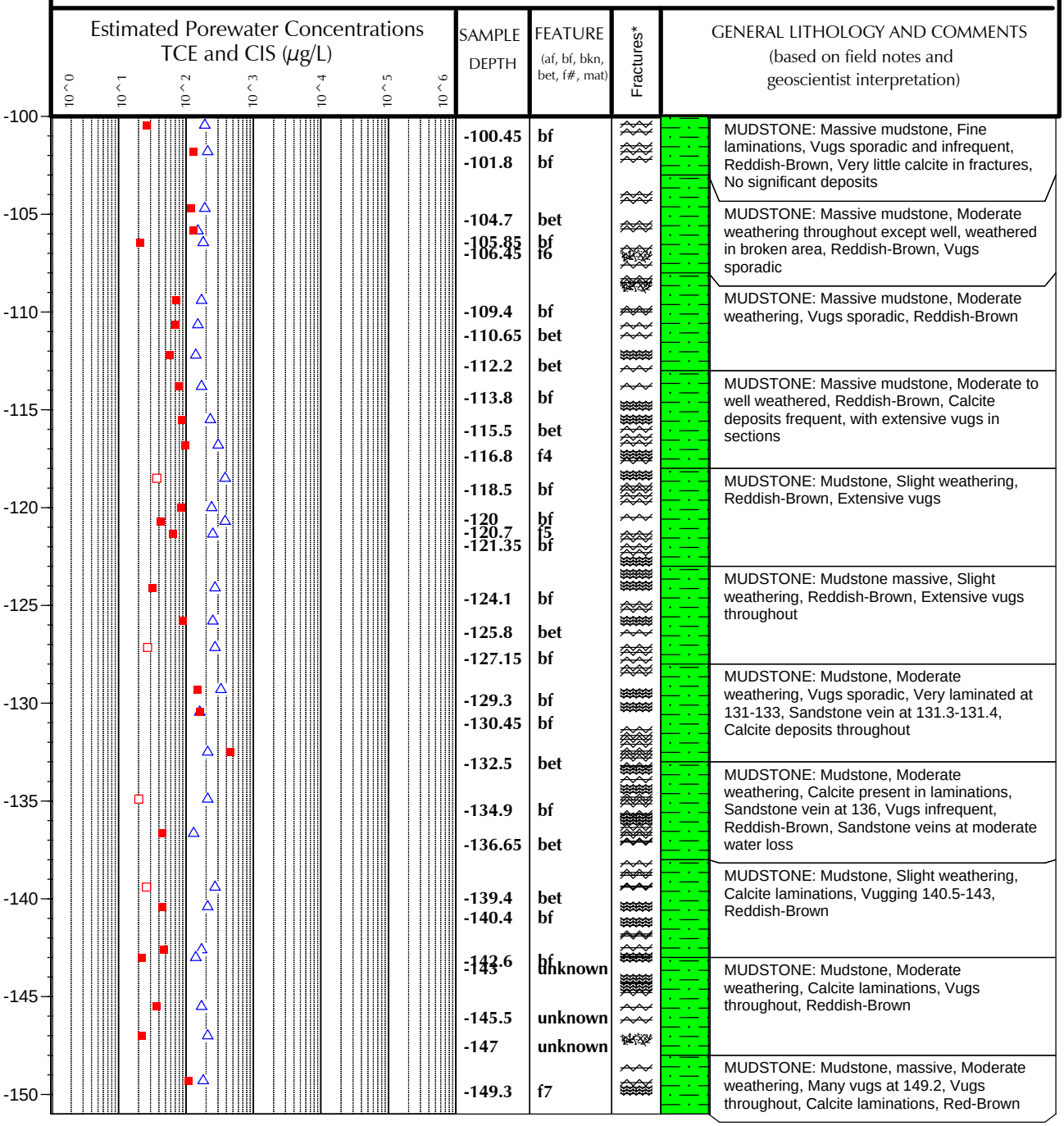


NOTES:

■ = Detections of Trichloroethene

▲ = Detections of cis-1,2-Dichloroethene

□ = Non-detects of Trichloroethene

△ = Non-detects of cis-1,2-Dichloroethene

tf = Top of feature

bf = Bottom of feature

bet = Between feature

f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

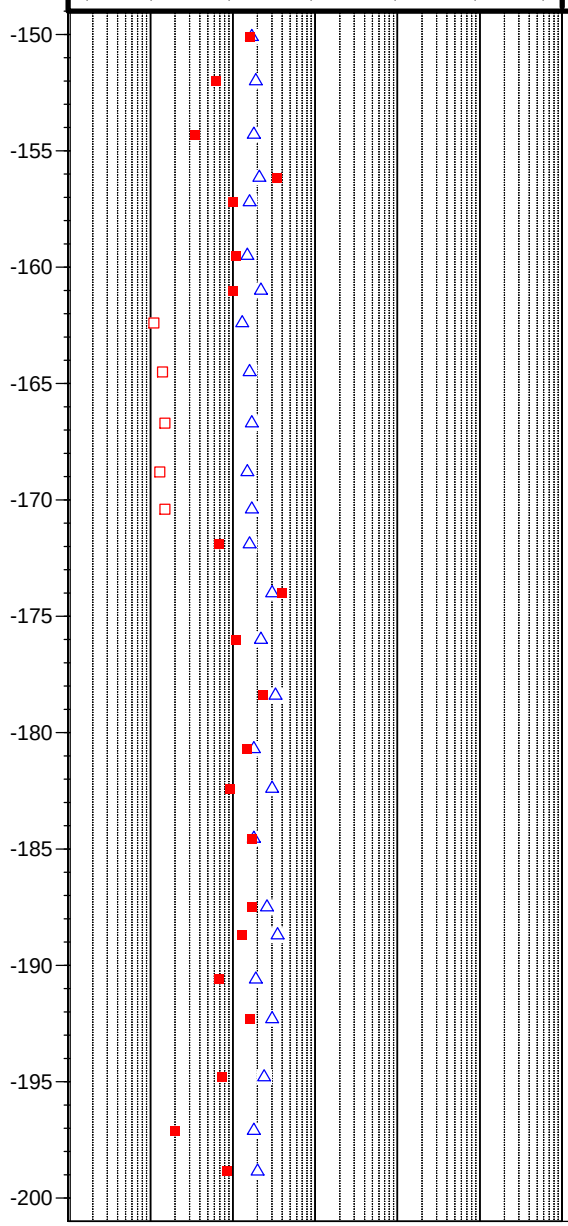
R2-0016718

FIGURE NO: 3 Page 4 of 9
BORING: MW-20
LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 2/9/2009 - 2/25/2009
Logged by: C. Hofer
Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

STONE ENVIRONMENTAL INC



SAMPLE DEPTH	FEATURE (af, bf, bkn, bet, f#, mat)	Fractures*	GENERAL LITHOLOGY AND COMMENTS (based on field notes and geoscientist interpretation)
-150.1	bf		MUDSTONE: Mudstone, massive, Moderate weathering, Many vugs at 149.2, Vugs throughout, Calcite laminations, Red-Brown
-152	f5		
-154.3	bf		MUDSTONE: Massive mudstone, Laminations with calcite, Infrequent vugs, Slight weathering, Sandstone veins at 156.2-157.1, Red-Brown
-156.15	bf		
-157.2	f2		
-159.5	bf		MUDSTONE: Mudstone, Moderate weathering, Infrequent vugs, Laminated with calcite, Calcite filled vugs observed, Red-Brown
-161	bf		
-162.4	f4		
-164.5	bet		MUDSTONE: Mudstone massive, Round gravel in fracture at 164.45, Moderate weathering, Laminations throughout with calcite, Red-Brown, Infrequent vugs
-166.7	bf		
-168.8	bf		MUDSTONE: Mudstone, massive, Laminations of calcite, Moderate weathering, Red-Brown, Infrequent vugs
-170.4	bet		
-171.9	bf		
-174	bf		MUDSTONE: Mudstone, massive, Infrequent vugs, Lamination observed, Calcite deposits, Moderate weathering, Red-Brown
-176	bf		
-178.4	bf		MUDSTONE: Mudstone, Slight weathering, Infrequent vugs, Laminated with calcite, Red-Brown
-180.7	bf		
-182.4	tf		MUDSTONE: Mudstone, Moderately weathered, Laminations of calcite, Calcite deposits, Infrequent vugs
-184.55	bf		
-187.5	tf		MUDSTONE: Massive mudstone, Calcite speckling, Fine laminations, Reddish-Brown, Moderate weathering
-188.7	bf		
-190.6	bf		
-192.3	f3		MUDSTONE: Massive mudstone, Calcite speckling, Fine laminations, Reddish-Brown, Moderate weathering, Calcite vein at 194.6-194.8
-194.8	bf		
-197.1	bf		MUDSTONE: Massive mudstone, Calcite speckling, Fine laminations, Reddish-Brown, Moderate weathering at fractures
-198.85	bf		

NOTES:

■ = Detections of Trichloroethene
▲ = Detections of cis-1,2-Dichloroethene
□ = Non-detects of Trichloroethene
△ = Non-detects of cis-1,2-Dichloroethene

tf = Top of feature
bf = Bottom of feature
bet = Between feature
f# = Inches from feature
bkn = Crumbled feature

mat = Matrix feature
= Fracture
= Highly fractured zone
= Rubble
μg/L = Micrograms per Liter

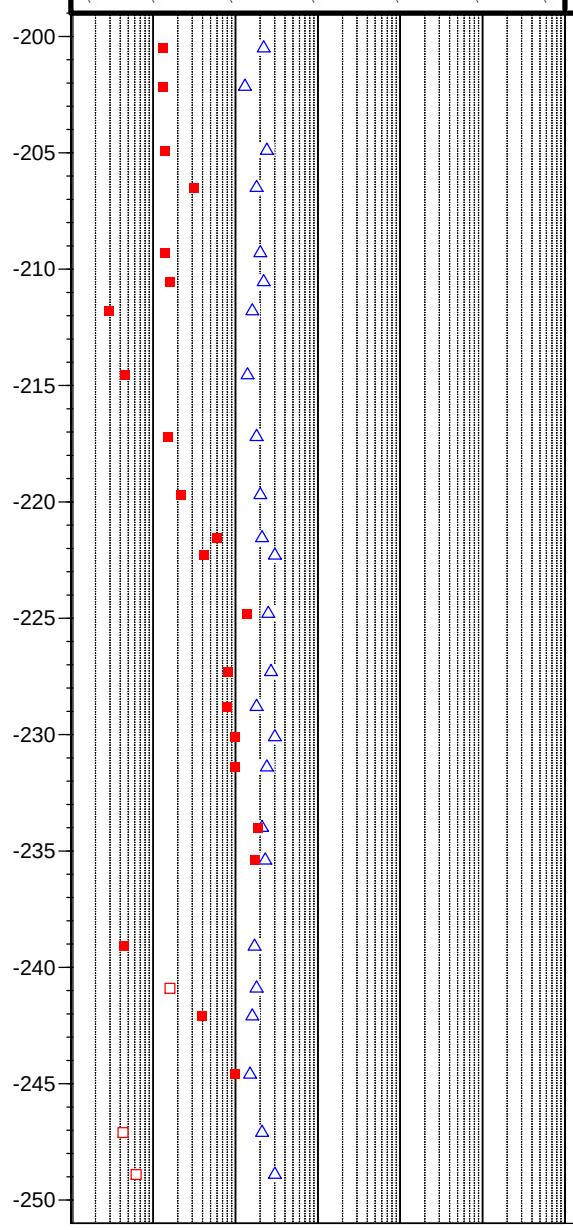
* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 3 Page 5 of 9
BORING: MW-20
LOCATION: Cornell-Dubilier Electronics

Dates Drilled: 2/9/2009 - 2/25/2009
Logged by: C. Hofer
Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

STONE ENVIRONMENTAL INC



SAMPLE DEPTH	FEATURE (af, bf, bkn, bet, f#, mat)	Fractures*	GENERAL LITHOLOGY AND COMMENTS (based on field notes and geoscientist interpretation)
-200.5	bf		MUDSTONE: Massive mudstone, Calcite speckling, Fine laminations, Reddish-Brown, Moderate weathering at fractures
-202.15	bf		
-204.9	bf		MUDSTONE: Massive mudstone, Calcite speckling, Fine laminations, Reddish-Brown, Moderate weathering at fractures
-206.5	bf		
-209.3	bet		MUDSTONE: Massive mudstone, Fine laminations, Reddish-Brown, Calcite speckling, Moderate weathering, Vugs present throughout
-210.55	tf		
-211.8	tf		
-214.55	bf		MUDSTONE: Massive mudstone, Small amount of vugs, Reddish-Brown, Moderate weathering, Calcite speckling, Fine laminations
-217.2	bf		
-219.7	bf		MUDSTONE: Massive mudstone, Small speckling of calcite, Fine laminations, Reddish-Brown, Moderate weathering
-221.55	bf		
-222.3	bf		
-224.8	bf		MUDSTONE: Massive mudstone, Small speckling of calcite, Moderate weathering, Fine laminations, Reddish-Brown
-227.3	bf		
-228.8	tf		MUDSTONE: Massive mudstone, Small calcite deposits sporadic, Moderate weathering, Red-Brown, Fine to no lamination
-230.1	tf		
-231.4	tf		
-234	bet		MUDSTONE: Massive mudstone, Small calcite deposits sporadic, Red-Brown, Some vugs, Moderate weathering, Fine to no lamination
-235.4	bet		
-239.1	tf		MUDSTONE: Massive mudstone, Some calcite veins and speckles, Red-Brown, Moderate weathering, Fine to no lamination, Cross bedding in some places
-240.9	bf		
-242.1	bf		
-244.6	bf		MUDSTONE: Mudstone, massive, Some veins and speckling of calcite, Red-Brown, Fine laminations, Moderate to well weathered
-247.1	bf		
-248.9	bf		MUDSTONE: Mudstone, Moderate weathering, Red-Brown, Small calcite deposits, Fine laminations

NOTES:

■ = Detections of Trichloroethene
▲ = Detections of cis-1,2-Dichloroethene
□ = Non-detects of Trichloroethene
△ = Non-detects of cis-1,2-Dichloroethene

tf = Top of feature
bf = Bottom of feature
bet = Between feature
f# = Inches from feature
bkn = Crumbled feature

mat = Matrix feature
= Fracture
= Highly fractured zone
= Rubble
µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 3 Page 6 of 9

BORING: MW-20

LOCATION: Cornell-Dubilier Electronics

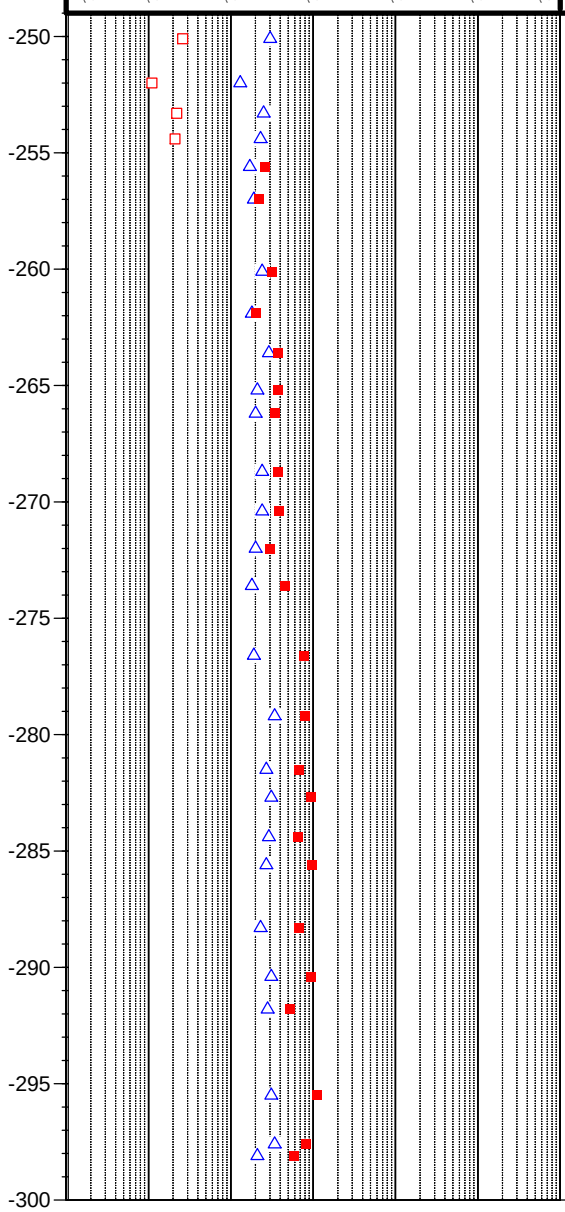
Dates Drilled: 2/9/2009 - 2/25/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

STONE ENVIRONMENTAL INC



SAMPLE DEPTH	FEATURE (af, bf, bkn, bet, f#, mat)
-250.1	bf
-252	bf
-253.3	bet
-254.4	tf
-255.6	bf
-257	bf
-260.1	bf
-261.9	bf
-263.6	bf
-265.2	bf
-266.2	bf
-268.7	bf
-270.4	bet
-272	bf
-273.6	bet
-276.6	bf
-279.2	bf
-281.5	bf
-282.7	bet
-284.4	bf
-285.6	bf
-288.3	bf
-290.4	bet
-291.8	bf
-295.5	bet
-297.6	bet
-298.1	bet

Fractures*

GENERAL LITHOLOGY AND COMMENTS (based on field notes and geoscientist interpretation)

MUDSTONE: Mudstone, Moderate weathering, Red-Brown, Small calcite deposits, Fine laminations, Possible formation change at 252.5, Carbonaceous black mudstone

MUDSTONE: Black/Grey with Red-Brown streaking carbon areas, Very little to no calcite, Moderate to well weathered, Fine laminations

MUDSTONE: Mudstone, Moderately weathered to fresh laminated, Red-Brown, Trace bioturbation, Trace to little calcite

MUDSTONE: Mudstone, Red-Brown, Finely laminated, Trace bioturbation, 263-264.4, 264.4-264.7 , Plus voids and vugs, 264.7-266.3 and 263-264.4, Mudstone, 266.3-268, Numerous voids/vugs and calcite

MUDSTONE: Mudstone, Red-Brown, Finely laminated, Trace bioturbation, Massive-fresh, Trace clay in fracture, fresh

MUDSTONE: Mudstone, Red-Brown, Strongly laminated, Zones of voids and vugs at 273.5-274, 276.2-27.65, 277.0-277.2, Minor water loss

MUDSTONE: Mudstone, Red-Brown, Scattered voids/vugs, Little calcite, Finely laminated, Trace bioturbation, Fresh

MUDSTONE: Mudstone, massive, Red-Brown, Little calcite, Clay filled fractures, Lots of clay, Finely laminated

MUDSTONE: Mudstone, massive, Red-Brown, Scattered voids/vugs, Finely laminated, Moderate weathering at fracture

MUDSTONE: Mudstone, massive, Red-Brown, Little calcite, Scattered vugs, Finely laminated, Moderate weathering at fractures

MUDSTONE: Mudstone, massive, Red-Brown, Finely laminated, Calcite vein, Scattered vugs, Moderate weathering

NOTES:

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bf = Bottom of feature

bet = Between feature

f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 3 Page 7 of 9

BORING: MW-20

LOCATION: Cornell-Dubilier Electronics

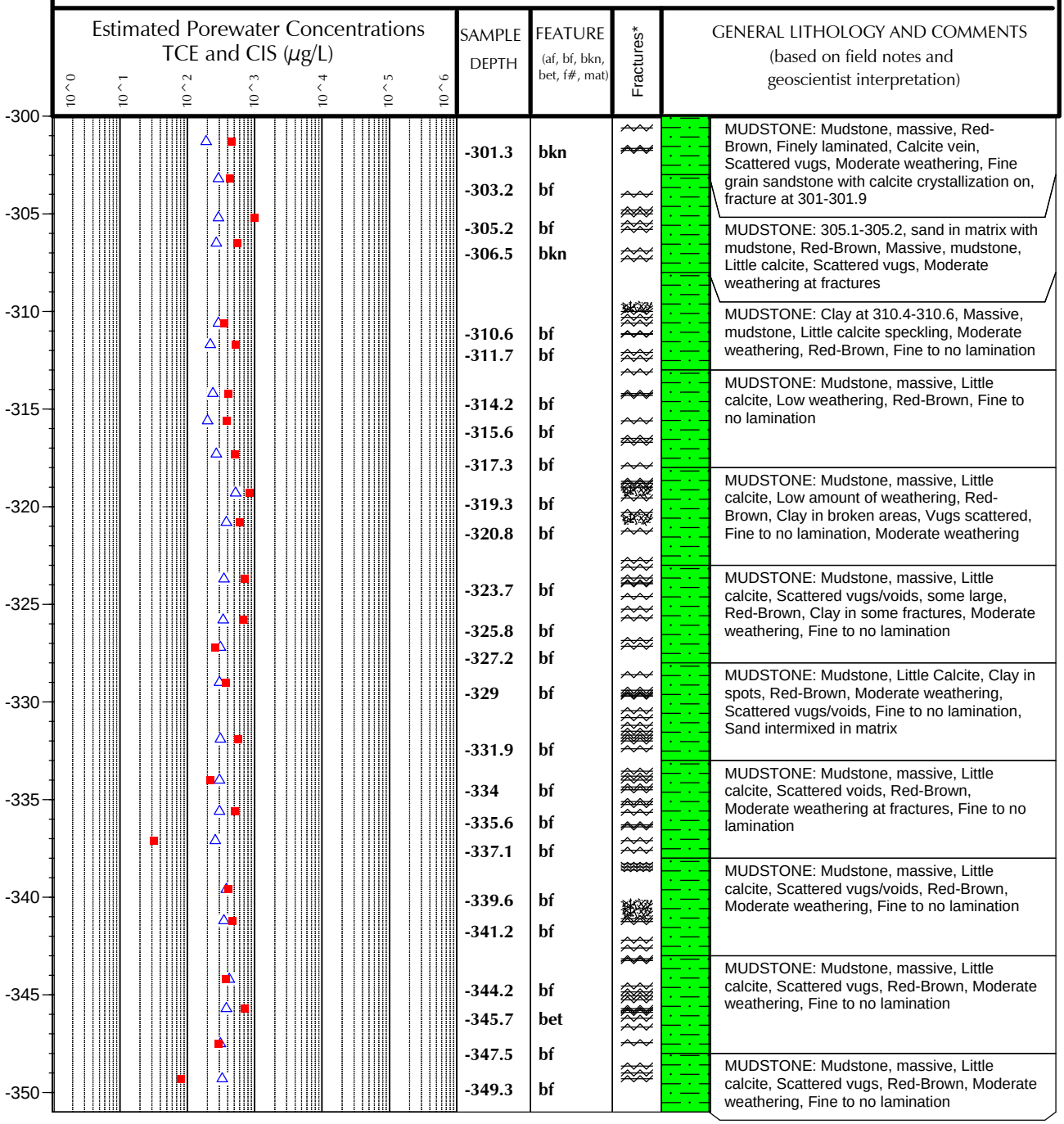
Dates Drilled: 2/9/2009 - 2/25/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

STONE ENVIRONMENTAL INC



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f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 3 Page 8 of 9

BORING: MW-20

LOCATION: Cornell-Dubilier Electronics

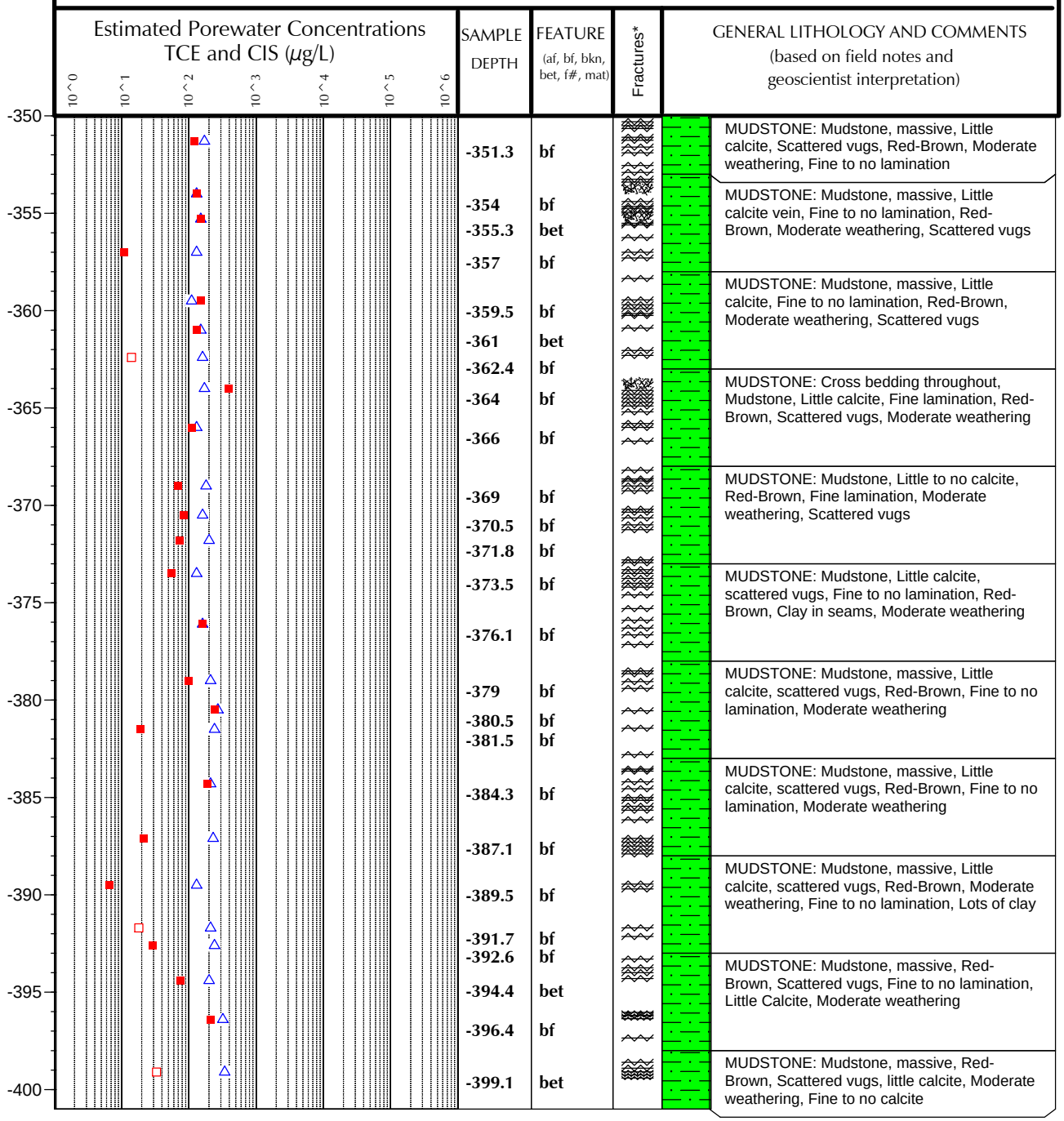
Dates Drilled: 2/9/2009 - 2/25/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

STONE ENVIRONMENTAL INC



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f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 3 Page 9 of 9

BORING: MW-20

LOCATION: Cornell-Dubilier Electronics

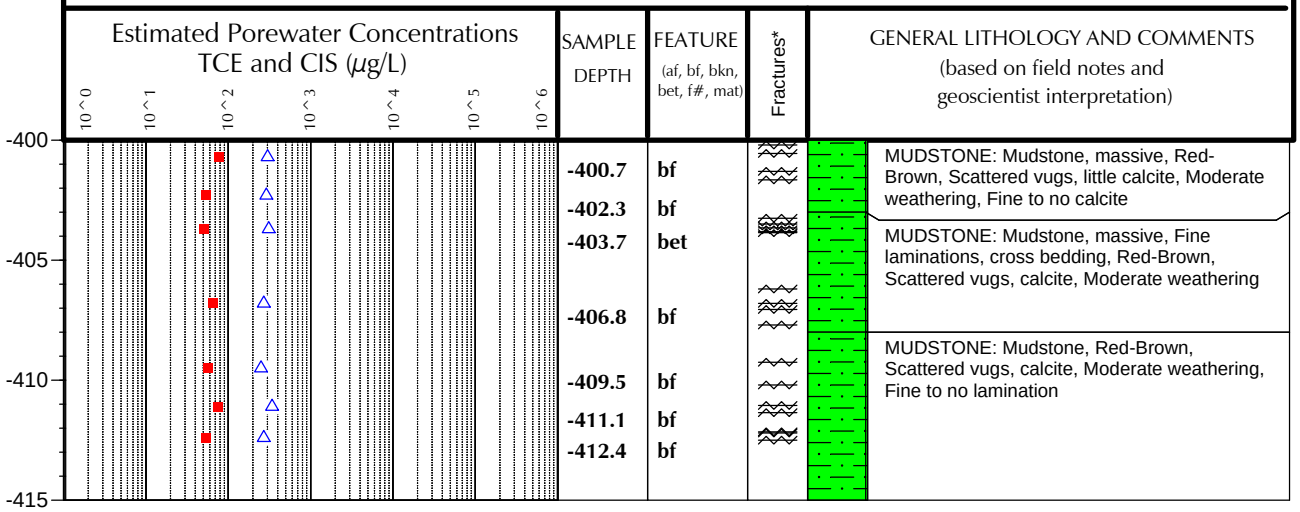
Dates Drilled: 2/9/2009 - 2/25/2009

Logged by: C. Hofer

Sampled by: V. DeLeone

DATE/INITIALS: 5/7/10 jab

STONE ENVIRONMENTAL INC



NOTES:

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tf = Top of feature

bf = Bottom of feature

bet = Between feature

f# = Inches from feature

bkn = Crumbled feature

mat = Matrix feature

= Fracture

= Highly fractured zone

= Rubble

µg/L = Micrograms per Liter

* = For illustrative purposes based on MPI's field notes, does not include highly angular fractures

FIGURE NO: 4

BORING: MW-14 and MW-20

LOCATION: Cornell-Dublier Electronics

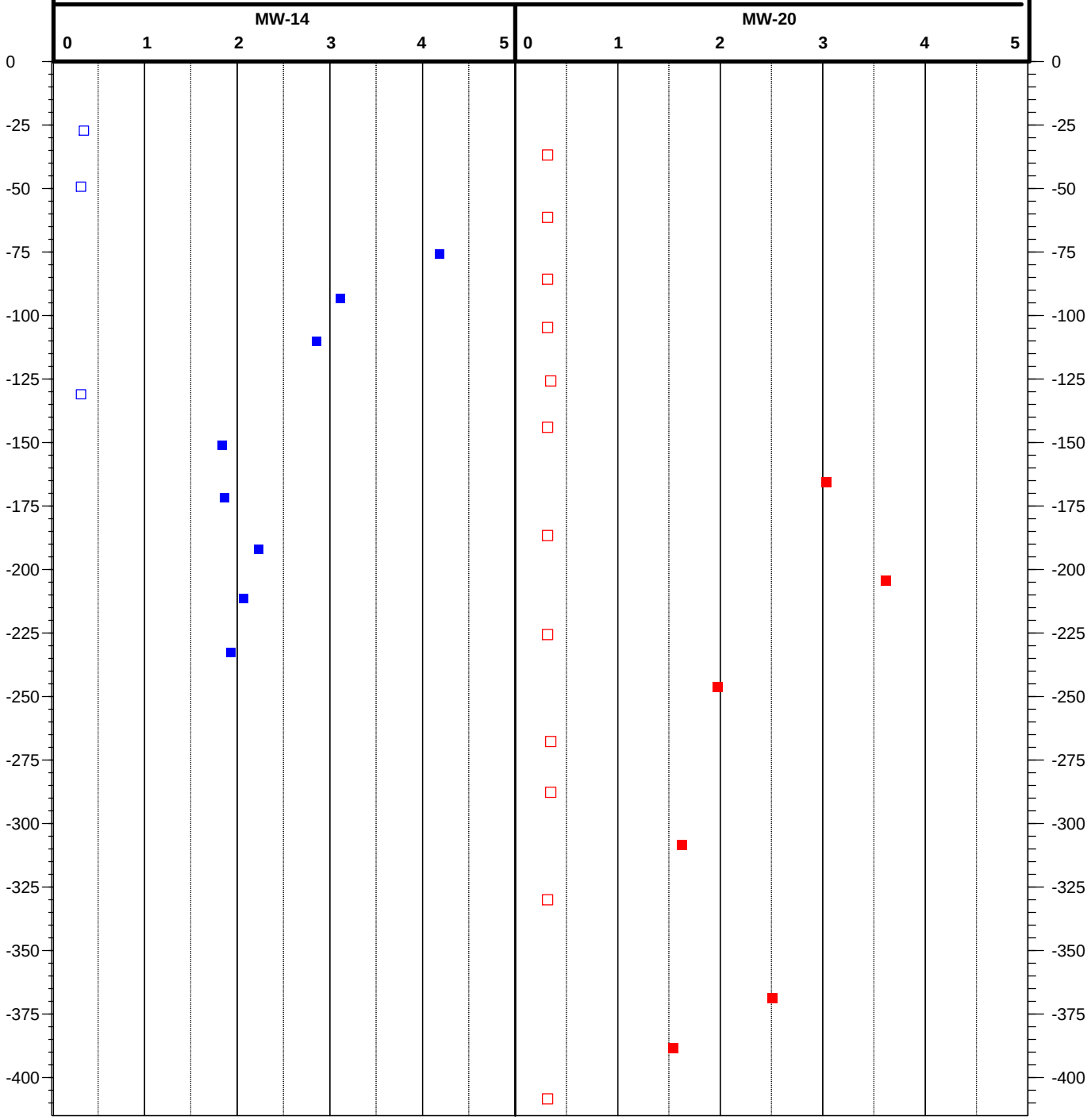
Dates Drilled: 2/9/09 - 3/3/09

Logged by: VDL

DATE INITIALS: 6/3/10 jab

STONE ENVIRONMENTAL INC

Partitioning Coefficient (kd) in mL/g Trichloroethene



NOTES:

■ = kd value for TCE - foc above detection limit for MW-14

□ = kd value for TCE - foc below detection limit for MW-14

■ = kd value for TCE - foc above detection limit for MW-20

□ = kd value for TCE - foc below detection limit for MW-20

FIGURE NO: 5

BORING: MW-16

LOCATION: Cornell-Dubilier Electronics

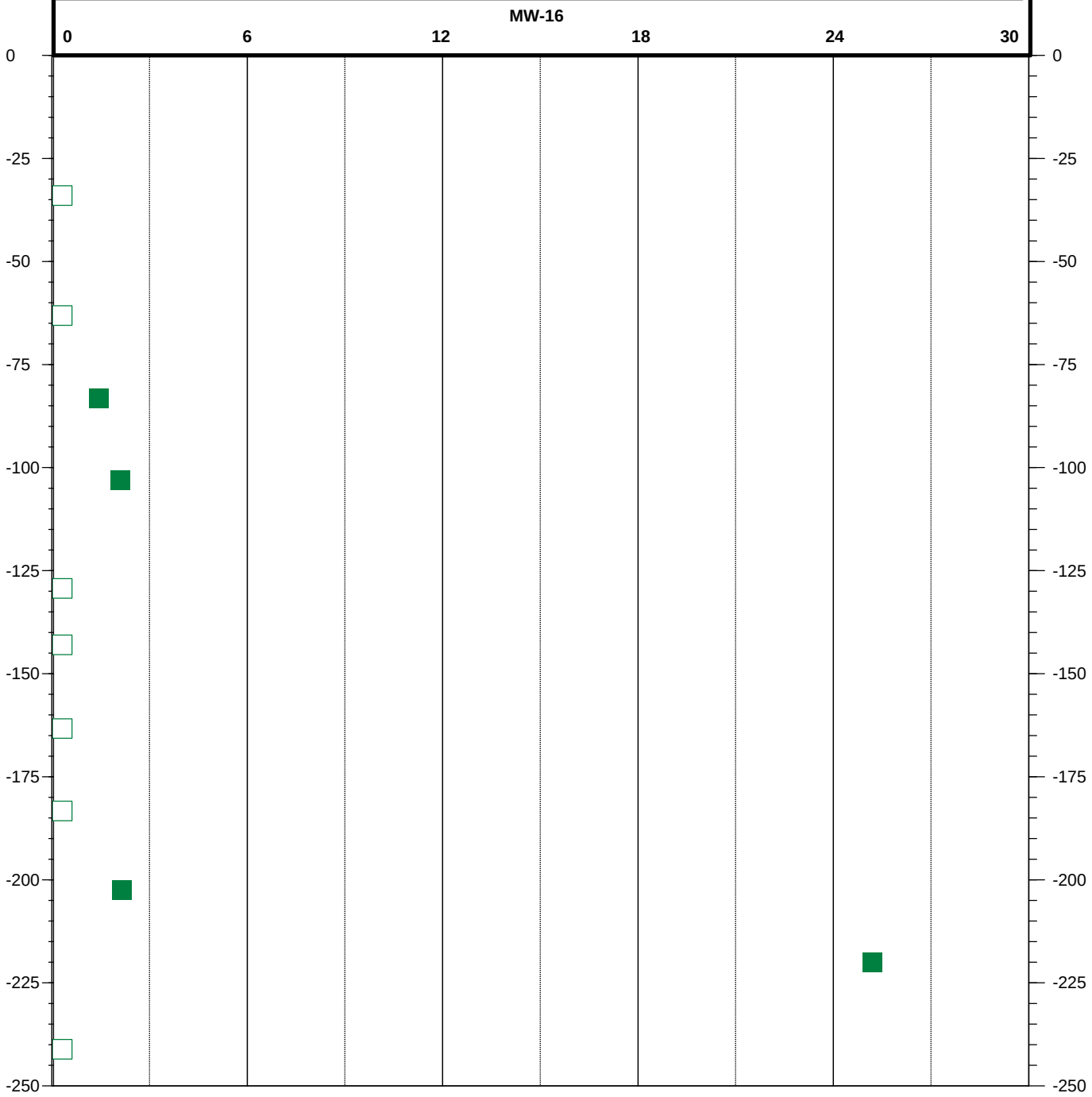
Dates Drilled: 1/21/09 - 2/2/09

Logged by: VDL

DATE INITIALS: 6/3/10 jab

STONE ENVIRONMENTAL INC

Partitioning Coefficient (kd) in mL/g Trichloroethene



NOTES:

■ = kd value for TCE - foc above detection limit for MW-16

□ = kd value for TCE - foc below detection limit for MW-16

LIST OF TABLES

Table 1: Summary of Drilling Progression and Samples Collected

Table 2: Summary of Physical Property Samples Collected

Table 3: Results of Physical Property Measurements

Table 4: Summary of VOC Results for Field and Laboratory Blanks

Table 5: Summary of VOC Results for Field Duplicates

Table 1 Summary of Drilling Progression and Samples Collected

Location	Core Run	Date (dd/mm/yy)	Depth From (ft bgs)	Depth to (ft bgs)	Core Run Interval (ft)	# Field VOC Samples	# Field VOC Duplicates	# Field VOC Matrix Spike	# Field PCB Samples	# Field PCB Duplicates	# Field TOC Samples	# Field TOC Duplicates	# Physical Property Samples	# Physical Property Duplicates
MW16	1	21/01/09	21	24	3	1	0	0	1	0	0	0	0	0
MW16	2		24	29	5	2	0	0	2	0	0	0	0	0
MW16	3		29	34	5	0	0	0	0	0	0	0	0	0
MW16	4	22/01/09	34	36	2	1	0	1	1	0	1	0	0	0
MW16	5		36	41	5	0	0	0	0	0	0	0	0	0
MW16	6		41	44	3	2	0	0	2	0	0	0	1	0
MW16	7	23/01/09	44	49	5	3	0	0	3	0	0	0	0	0
MW16	8		49	54	5	2	0	0	2	0	0	0	0	0
MW16	9		54	59	5	3	0	0	3	0	0	0	0	0
MW16	10		59	64	5	2	0	0	2	0	1	0	1	0
MW16	11	26/01/09	64	69	5	3	0	0	3	0	0	0	0	0
MW16	12		69	74	5	2	1	0	2	1	0	0	0	0
MW16	13		74	79	5	3	0	0	3	0	0	0	0	0
MW16	14		79	84	5	2	0	0	2	0	0	0	1	0
MW16	15		84	89	5	3	0	0	3	0	1	0	0	0
MW16	16	27/01/09	89	94	5	2	0	0	2	0	0	0	0	0
MW16	17		94	99	5	3	0	0	3	0	0	0	0	0
MW16	18		99	104	5	2	0	0	2	0	1	0	1	0
MW16	19		104	109	5	3	0	0	3	0	0	0	0	0
MW16	20		109	114	5	2	1	1	2	1	0	0	0	0
MW16	21		114	119	5	3	0	0	3	0	0	0	0	0
MW16	22		119	124	5	2	0	0	2	0	0	0	0	0
MW16	23	28/01/09	124	129	5	3	0	0	3	0	0	0	0	0

R2-0016728

Table 1 Summary of Drilling Progression and Samples Collected

Location	Core Run	Date (dd/mm/yy)	Depth From (ft bgs)	Depth to (ft bgs)	Core Run Interval (ft)	# Field VOC Samples	# Field VOC Duplicates	# Field VOC Matrix Spike	# Field PCB Samples	# Field PCB Duplicates	# Field TOC Samples	# Field TOC Duplicates	# Physical Property Samples	# Physical Property Duplicates
MW16	24	28/01/09	129	134	5	2	0	0	2	0	1	0	1	0
MW16	25		134	139	5	3	0	0	3	0	0	0	0	0
MW16	26		139	144	5	2	0	0	2	0	1	0	1	0
MW16	27		144	149	5	3	0	0	3	0	0	0	0	0
MW16	28	29/01/09	149	154	5	2	1	1	2	1	0	0	0	0
MW16	29		154	159	5	3	0	0	3	0	0	0	0	0
MW16	30		159	164	5	2	0	0	2	0	1	0	1	0
MW16	31		164	169	5	3	0	0	3	0	0	0	0	0
MW16	32		169	174	5	2	0	0	2	0	0	0	0	0
MW16	33		174	179	5	3	0	0	3	0	0	0	0	0
MW16	34		179	184	5	2	0	0	2	0	1	0	1	0
MW16	35		184	189	5	3	0	0	3	0	0	0	0	0
MW16	36	30/01/09	189	194	5	2	1	1	2	1	0	0	0	0
MW16	37		194	199	5	3	0	0	3	0	0	0	0	0
MW16	38		199	204	5	2	0	0	2	0	1	0	1	0
MW16	39		204	209	5	3	0	0	3	0	0	0	0	0
MW16	40		209	214	5	2	0	0	2	0	0	0	0	0
MW16	41		214	219	5	3	0	0	3	0	0	0	0	0
MW16	42		219	224	5	2	0	0	2	0	1	0	1	0
MW16	43	02/02/09	224	229	5	3	0	0	3	0	0	0	0	0
MW16	44		229	234	5	2	1	1	2	1	0	0	0	0
MW16	45		234	239	5	3	0	0	3	0	0	0	0	0
MW16	46		239	244	5	1	0	0	1	0	1	0	1	0

R2-0016729

Table 1 Summary of Drilling Progression and Samples Collected

Location	Core Run	Date (dd/mm/yy)	Depth From (ft bgs)	Depth to (ft bgs)	Core Run Interval (ft)	# Field VOC Samples	# Field VOC Duplicates	# Field VOC Matrix Spike	# Field PCB Samples	# Field PCB Duplicates	# Field TOC Samples	# Field TOC Duplicates	# Physical Property Samples	# Physical Property Duplicates
MW16	47	02/02/09	244	249	5	2	0	0	2	0	0	0	0	0
MW16	48		249	254	5	1	0	0	1	0	0	0	0	0
MW14	1	02/05/09	23	24	1	1	0	0	1	0	0	0	0	0
MW14	2		24	29	5	3	0	0	3	0	1	0	1	0
MW14	3		29	34	5	2	0	0	2	0	0	0	0	0
MW14	4	02/06/09	34	39	5	3	0	0	3	0	0	0	0	0
MW14	5		39	44	5	2	0	0	2	0	0	0	0	0
MW14	6		44	49	5	3	0	0	3	0	0	0	0	0
MW14	7		49	54	5	2	0	0	2	0	1	0	1	0
MW14	8		54	59	5	3	0	0	3	0	0	0	0	0
MW14	9		59	64	5	2	1	1	2	1	0	0	0	0
MW14	10		64	69	5	3	0	0	3	0	0	0	0	0
MW20	1	09/02/09	28	33	5	4	0	0	0	0	0	0	0	0
MW20	2		33	38	5	2	0	0	0	0	1	0	1	0
MW20	3	10/02/09	38	43	5	4	0	0	0	0	0	0	0	0
MW20	4		43	48	5	3	0	0	0	0	0	0	0	0
MW20	5		48	53	5	4	0	0	0	0	0	0	0	0
MW20	6		53	58	5	2	0	0	0	0	0	0	0	0
MW20	7		58	63	5	4	1	1	0	0	1	0	1	0
MW20	8		63	68	5	3	0	0	0	0	0	0	0	0
MW20	9		68	73	5	4	0	0	0	0	0	0	0	0
MW20	10		73	78	5	3	0	0	0	0	0	0	0	0
MW20	11	11/02/09	78	83	5	1	0	0	0	0	0	0	0	0

R2-0016730

Table 1 Summary of Drilling Progression and Samples Collected

Location	Core Run	Date (dd/mm/yy)	Depth From (ft bgs)	Depth to (ft bgs)	Core Run Interval (ft)	# Field VOC Samples	# Field VOC Duplicates	# Field VOC Matrix Spike	# Field PCB Samples	# Field PCB Duplicates	# Field TOC Samples	# Field TOC Duplicates	# Physical Property Samples	# Physical Property Duplicates
MW20	12	11/02/09	83	88	5	3	0	0	0	0	1	0	1	0
MW20	13		88	93	5	4	1	1	0	0	0	0	0	0
MW20	14		93	98	5	3	0	0	0	0	0	0	0	0
MW20	15		98	103	5	4	0	0	0	0	0	0	0	0
MW20	16		103	108	5	3	0	0	0	0	1	0	1	0
MW20	17		108	113	5	3	0	0	0	0	0	0	0	0
MW20	18		113	118	5	3	0	0	0	0	0	0	0	0
MW20	19		118	123	5	4	1	1	0	0	0	0	0	0
MW20	20		123	128	5	3	0	0	0	0	1	0	1	0
MW20	21	12/02/09	128	133	5	3	0	0	0	0	0	0	0	0
MW20	22		133	138	5	2	0	0	0	0	0	0	0	0
MW20	23		138	143	5	3	0	0	0	0	0	0	0	0
MW20	24		143	148	5	3	0	0	0	0	1	0	1	0
MW20	25		148	153	5	3	0	0	0	0	0	0	0	0
MW20	26		153	158	5	3	1	1	0	0	0	0	0	0
MW20	27		158	163	5	3	0	0	0	0	0	0	0	0
MW20	28		163	168	5	2	0	0	0	0	1	0	1	0
MW20	29		168	173	5	3	0	0	0	0	0	0	0	0
MW20	30		173	178	5	2	0	0	0	0	0	0	0	0
MW20	31		178	183	5	3	0	0	0	0	0	0	0	0
MW20	32		183	188	5	2	0	0	0	0	1	0	1	0
MW20	33	13/02/09	188	193	5	3	1	1	0	0	0	0	0	0
MW20	34		193	198	5	2	0	0	0	0	0	0	0	0

R2-0016731

Table 1 Summary of Drilling Progression and Samples Collected

Location	Core Run	Date (dd/mm/yy)	Depth From (ft bgs)	Depth to (ft bgs)	Core Run Interval (ft)	# Field VOC Samples	# Field VOC Duplicates	# Field VOC Matrix Spike	# Field PCB Samples	# Field PCB Duplicates	# Field TOC Samples	# Field TOC Duplicates	# Physical Property Samples	# Physical Property Duplicates
MW20	35	13/02/09	198	203	5	3	0	0	0	0	0	0	0	0
MW20	36		203	208	5	2	0	0	0	0	1	1	1	0
MW20	37		208	213	5	3	0	0	0	0	0	0	0	0
MW20	38		213	218	5	2	0	0	0	0	0	0	0	0
MW20	39		218	223	5	3	0	0	0	0	0	0	0	0
MW20	40		223	228	5	2	0	0	0	0	1	0	1	0
MW20	41	16/02/09	228	233	5	3	1	1	0	0	0	0	0	0
MW20	42		233	238	5	2	0	0	0	0	0	0	0	0
MW20	43		238	243	5	3	0	0	0	0	0	0	0	0
MW20	44		243	248	5	2	0	0	0	0	1	1	1	1
MW20	45		248	253	5	3	0	0	0	0	0	0	0	0
MW20	46		253	258	5	4	0	0	0	0	0	0	0	0
MW20	47	17/02/09	258	263	5	2	0	0	0	0	0	0	0	0
MW20	48		263	268	5	3	0	0	0	0	1	0	1	0
MW20	49		268	273	5	3	1	1	0	0	0	0	0	0
MW20	50		273	278	5	2	0	0	0	0	0	0	0	0
MW20	51		278	283	5	3	0	0	0	0	0	0	0	0
MW20	52	18/02/09	283	288	5	2	0	0	0	0	1	0	1	0
MW20	53		288	293	5	3	0	0	0	0	0	0	0	0
MW20	54		293	298	5	2	0	0	0	0	0	0	0	0
MW20	55		298	303	5	2	0	0	0	0	0	0	0	0
MW20	56		303	308	5	3	0	0	0	0	0	0	0	0
MW20	57		308	313	5	2	1	1	0	0	1	0	1	0

R2-0016732

Table 1 Summary of Drilling Progression and Samples Collected

Location	Core Run	Date (dd/mm/yy)	Depth From (ft bgs)	Depth to (ft bgs)	Core Run Interval (ft)	# Field VOC Samples	# Field VOC Duplicates	# Field VOC Matrix Spike	# Field PCB Samples	# Field PCB Duplicates	# Field TOC Samples	# Field TOC Duplicates	# Physical Property Samples	# Physical Property Duplicates
MW20	58	18/02/09	313	318	5	3	0	0	0	0	0	0	0	0
MW20	59	19/02/09	318	323	5	2	0	0	0	0	0	0	0	0
MW20	60		323	328	5	3	0	0	0	0	0	0	0	0
MW20	61		328	333	5	2	0	0	0	0	1	0	1	0
MW20	62		333	338	5	3	0	0	0	0	0	0	0	0
MW20	63		338	343	5	2	0	0	0	0	0	0	0	0
MW20	64		343	348	5	3	0	0	0	0	0	0	0	0
MW20	65	20/02/09	348	353	5	2	1	1	0	0	1	0	1	0
MW20	66		353	358	5	3	0	0	0	0	0	0	0	0
MW20	67		358	363	5	3	0	0	0	0	0	0	0	0
MW20	68		363	368	5	2	0	0	0	0	0	0	0	0
MW20	69		368	373	5	3	0	0	0	0	1	0	1	0
MW20	70		373	378	5	2	0	0	0	0	0	0	0	0
MW20	71	23/02/09	378	383	5	3	0	0	0	0	0	0	0	0
MW20	72		383	388	5	2	1	1	0	0	0	0	0	0
MW20	73		388	393	5	3	0	0	0	0	1	0	1	0
MW20	74		393	398	5	2	0	0	0	0	0	0	0	0
MW20	75		398	403	5	3	0	0	0	0	0	0	0	0
MW20	76		403	408	5	2	0	0	0	0	0	0	0	0
MW20	77		408	413	5	3	0	0	0	0	1	0	1	0
MW14	11	25/02/09	73	78	5	2	0	0	2	0	1	0	1	0
MW14	12		78	83	5	3	0	0	3	0	0	0	0	0
MW14	13		83	88	5	2	0	0	2	0	0	0	0	0

R2-0016733

Table 1 Summary of Drilling Progression and Samples Collected

Location	Core Run	Date (dd/mm/yy)	Depth From (ft bgs)	Depth to (ft bgs)	Core Run Interval (ft)	# Field VOC Samples	# Field VOC Duplicates	# Field VOC Matrix Spike	# Field PCB Samples	# Field PCB Duplicates	# Field TOC Samples	# Field TOC Duplicates	# Physical Property Samples	# Physical Property Duplicates
MW14	14	25/02/09	88	93	5	3	0	0	3	0	0	0	0	0
MW14	15		93	98	5	2	0	0	2	0	1	0	1	0
MW14	16		98	103	5	2	0	0	2	0	0	0	0	0
MW14	17		103	108	5	3	1	1	3	1	0	0	0	0
MW14	18		108	113	5	2	0	0	2	0	1	0	1	0
MW14	19	26/02/09	113	118	5	3	0	0	3	0	0	0	0	0
MW14	20		118	123	5	3	0	0	3	0	0	0	0	0
MW14	21		123	128	5	2	0	0	2	0	0	0	0	0
MW14	22		128	133	5	3	0	0	3	0	1	0	1	0
MW14	23		133	138	5	3	0	0	3	0	0	0	0	0
MW14	24		138	143	5	2	0	0	2	1	0	0	0	0
MW14	25		143	148	5	3	1	1	3	0	0	0	0	0
MW14	26		148	153	5	2	0	0	2	0	1	0	1	0
MW14	27		153	158	5	3	0	0	3	0	0	0	0	0
MW14	28	27/02/09	158	163	5	2	0	0	2	0	0	0	0	0
MW14	29		163	168	5	3	0	0	3	0	0	0	0	0
MW14	30		168	173	5	2	0	0	2	0	1	0	1	0
MW14	31		173	178	5	3	0	0	3	0	0	0	0	0
MW14	32		178	183	5	2	0	0	2	1	0	0	0	0
MW14	33		183	188	5	3	1	1	3	0	0	0	1	0
MW14	34	02/03/09	188	193	5	2	0	0	2	0	1	0	0	0
MW14	35		193	198	5	3	0	0	3	0	0	0	0	0
MW14	36		198	203	5	2	0	0	2	0	0	0	0	0

R2-0016734

Table 1 Summary of Drilling Progression and Samples Collected

Location	Core Run	Date (dd/mm/yy)	Depth From (ft bgs)	Depth to (ft bgs)	Core Run Interval (ft)	# Field VOC Samples	# Field VOC Duplicates	# Field VOC Matrix Spike	# Field PCB Samples	# Field PCB Duplicates	# Field TOC Samples	# Field TOC Duplicates	# Physical Property Samples	# Physical Property Duplicates
MW14	37	02/03/09	203	208	5	3	0	0	3	0	0	0	0	0
MW14	38		208	213	5	2	0	0	2	0	1	0	1	0
MW14	39		213	218	5	3	0	0	3	0	0	0	0	0
MW14	40	03/03/09	218	223	5	2	0	0	2	1	0	0	0	0
MW14	41		223	228	5	3	1	1	3	0	0	0	0	0
MW14	42		228	233	5	2	1	1	2	1	1	1	1	1
				Totals:	**824**	**423**	**21**	**21**	**212**	**11**	**41**	**3**	**41**	**2**

R2-0016735

Table 2 Summary of Physical properties Samples Collected

Sample Name	Date Collected (dd/mm/yy)	Location	Core Run	Core Run Interval (ft bgs)	Sample Interval (ft bgs)		Sample Mid-Depth (ft bgs)	Sample Length (ft)
CDEMDMW16043.50PHY	22/01/09	MW16	6	41.0 - 44.0	43.5	43.8	43.65	0.3
CDEMDMW16063.00PHY	23/01/09	MW16	10	59.0 - 64.0	62.8	63.1	62.95	0.3
CDEMDMW16083.00PHY	26/01/09	MW16	14	79.0 - 84.0	82.8	83.2	83	0.4
CDEMDMW16103.10PHY	27/01/09	MW16	18	99.0 - 104.0	102.9	103.2	103.05	0.3
CDEMDMW16129.30PHY	28/01/09	MW16	24	129.0 - 134.0	129.3	129.6	129.45	0.3
CDEMDMW16143.00PHY	28/01/09	MW16	26	139.0 - 144.0	142.7	143	142.85	0.3
CDEMDMW16163.30PHY	29/01/09	MW16	30	159.0 - 164.0	162.8	163.3	163.05	0.5
CDEMDMW16183.40PHY	29/01/09	MW16	34	179.0 - 184.0	183	183.4	183.2	0.4
CDEMDMW16202.50PHY	30/01/09	MW16	38	199.0 - 204.0	202.2	202.5	202.35	0.3
CDEMDMW16220.00PHY	30/01/09	MW16	42	219.0 - 224.0	219.7	220	219.85	0.3
CDEMDMW16241.10PHY	02/02/09	MW16	46	239.0 - 244.0	241.2	241.5	241.35	0.3
CDEMDMW20036.80PHY	09/02/09	MW20	2	33.0 - 38.0	36.4	36.8	36.6	0.4
CDEMDMW20060.90PHY	10/02/09	MW20	7	58.0 - 63.0	60.9	61.35	61.2	0.45
CDEMDMW20085.40PHY	11/02/09	MW20	12	83.0 - 88.0	85.4	85.7	85.55	0.3
CDEMDMW20104.70PHY	11/02/09	MW20	16	103.0 - 108.0	104.3	104.7	104.5	0.4
CDEMDMW20125.35PHY	11/02/09	MW20	20	123.0 - 128.0	125.35	125.75	125.55	0.4
CDEMDMW20143.50PHY	12/02/09	MW20	24	143.0 - 148.0	143.5	144	143.75	0.5
CDEMDMW20165.40PHY	12/02/09	MW20	28	163.0 - 168.0	165.4	165.75	165.58	0.35
CDEMDMW20186.60PHY	12/02/09	MW20	32	183.0 - 188.0	186.6	187	186.8	0.4
CDEMDMW20204.40PHY	13/02/09	MW20	36	203.0 -208.0	204.4	204.9	204.65	0.5
CDEMDMW20225.60PHY	13/02/09	MW20	40	223.0 - 228.0	225.6	226.3	225.95	0.7
CDEMDMW20246.20PHY	16/02/09	MW20	44	243.0 - 248.0	246.1	246.4	246.25	0.3
CDEMDMW20FD001PHY	16/02/09	MW20	44	243.0 - 248.0	246.1	246.4	246.25	0.3
CDEMDMW20267.70PHY	17/02/09	MW20	48	263.0 - 268.0	267.2	267.7	267.45	0.5
CDEMDMW20287.70PHY	18/02/09	MW20	52	283.0 - 288.0	287.3	287.7	287.5	0.4
CDEMDMW20308.40PHY	18/02/09	MW20	57	308.0 - 313.0	308	308.4	308.2	0.4
CDEMDMW20330.00PHY	19/02/09	MW20	61	328.0 - 333.0	329.6	330	329.8	0.4
CDEMDMW20352.70PHY	20/02/09	MW20	65	348.0 - 353.0	352.3	352.7	352.5	0.4
CDEMDMW20368.70PHY	20/02/09	MW20	69	368.0 - 373.0	368.1	368.7	368.4	0.6
CDEMDMW20388.40PHY	23/02/09	MW20	73	388.0 - 393.0	388	388.4	388.2	0.4
CDEMDMW20408.40PHY	23/02/09	MW20	77	408.0 - 413.0	408	408.4	408.2	0.4
CDEMDMW14027.20PHY	05/02/09	MW14	2	24.0 - 29.0	26.9	27.2	27.05	0.3
CDEMDMW14049.30PHY	06/02/09	MW14	7	49.0 - 54.0	49	49.3	49.15	0.3
CDEMDMW14075.90PHY	25/02/09	MW14	11	73.0 - 78.0	75.9	76.2	76.05	0.3
CDEMDMW14093.40PHY	25/02/09	MW14	15	93.0 - 98.0	93	93.4	93.2	0.4

R2-0016736

Table 2 Summary of Physical properties Samples Collected

Sample Name	Date Collected (dd/mm/yy)	Location	Core Run	Core Run Interval (ft bgs)	Sample Interval (ft bgs)		Sample Mid-Depth (ft bgs)	Sample Length (ft)
CDEMDMW14110.00PHY	25/02/09	MW14	18	108.0 - 113.0	109.6	110	109.8	0.4
CDEMDMW14131.00PHY	26/02/09	MW14	22	128.0 - 133.0	130.7	131	130.85	0.3
CDEMDMW14151.10PHY	26/02/09	MW14	26	148.0 - 153.0	150.8	151.1	150.95	0.3
CDEMDMW14171.80PHY	27/02/09	MW14	30	168.0 - 173.0	171.5	171.8	171.65	0.3
CDEMDMW14192.00PHY	02/03/09	MW14	34	188.0 - 193.0	191.6	192	191.8	0.4
CDEMDMW14211.40PHY	02/03/09	MW14	38	208.0 - 213.0	211	211.5	211.25	0.5
CDEMDMW14232.50PHY	03/03/09	MW14	42	228.0 - 213.0	231	232.5	231.25	0.5
CDEMDMW14FD001PHY	03/03/09	MW14	42	228.0 - 213.0	231	232.5	231.25	0.5

Notes: Samples submitted to Golder Associates for physical parameter testing (porosity, percent moisture, and bulk density)

R2-0016737

Table 3 Results of Physical Properties and TOC Measurements - Revised 4/16/2010

Sample ID	Location	Depth Interval (ft bgs)		Major Lithology	Porosity (-)	Water Content (%)	Wet Bulk Density (g/cm^3)	Dry Bulk Density (g/cm^3)	Specific Gravity (-)	Average TOC (%)	TOC Sample ID
		Top Depth	Bottom Depth								
CDEMDMW16043.50PHY	MW16	41	44	Mudstone	0.12	2.2	2.57	2.47	2.81	0.0025	CDEMDMW16034.00TOC*
CDEMDMW16063.00PHY	MW16	59	64	Mudstone	0.13	4.9	2.52	2.4	2.75	0.0025	CDEMDMW16063.10TOC*
CDEMDMW16083.00PHY	MW16	79	84	Mudstone	0.11	3.9	2.56	2.46	2.78	0.0115	CDEMDMW16083.20TOC
CDEMDMW16103.10PHY	MW16	99	104	Mudstone	0.09	3.2	2.56	2.48	2.72	0.0166	CDEMDMW16103.10TOC
CDEMDMW16129.30PHY	MW16	129	134	Mudstone	0.06	2.2	2.62	2.57	2.74	0.0025	CDEMDMW16129.30TOC*
CDEMDMW16143.00PHY	MW16	139	144	Mudstone	0.09	3.3	2.63	2.54	2.8	0.0025	CDEMDMW16143.00TOC*
CDEMDMW16163.30PHY	MW16	159	164	Mudstone	0.08	2.3	2.61	2.56	2.77	0.0025	CDEMDMW16163.30TOC*
CDEMDMW16183.40PHY	MW16	179	184	Mudstone	0.06	1.7	2.66	2.61	2.77	0.0025	CDEMDMW16183.30TOC*
CDEMDMW16202.50PHY	MW16	199	204	Mudstone	0.12	4.6	2.59	2.48	2.82	0.0171	CDEMDMW16202.50TOC
CDEMDMW16220.00PHY	MW16	219	224	Mudstone	0.07	2.2	2.67	2.61	2.8	0.200	CDEMDMW16220.00TOC
CDEMDMW16241.10PHY	MW16	239	244	Mudstone	0.06	2.2	2.62	2.56	2.73	0.0025	CDEMDMW16241.10TOC*
CDEMDMW20036.80PHY	MW20	33	38	Mudstone	0.17	7.2	2.44	2.27	2.74	0.0025	CDEMDMW20036.80TOC*
CDEMDMW20060.90PHY	MW20	58	63	Mudstone	0.17	6.3	2.51	2.36	2.83	0.0025	CDEMDMW20061.35TOC*
CDEMDMW20085.40PHY	MW20	83	88	Mudstone	0.11	3.9	2.61	2.51	2.82	0.0025	CDEMDMW20085.70TOC*
CDEMDMW20104.70PHY	MW20	103	108	Mudstone	0.13	5	2.6	2.48	2.85	0.0025	CDEMDMW20104.70TOC*
CDEMDMW20125.35PHY	MW20	123	128	Mudstone	0.09	3.8	2.62	2.52	2.79	0.00275	CDEMDMW20125.75TOC*
CDEMDMW20143.50PHY	MW20	143	148	Mudstone	0.12	4.6	2.6	2.48	2.82	0.0025	CDEMDMW20144.00TOC*
CDEMDMW20165.40PHY	MW20	163	168	Mudstone	0.1	3.5	2.64	2.55	2.83	0.0241	CDEMDMW20165.75TOC
CDEMDMW20186.60PHY	MW20	183	188	Mudstone	0.09	3.9	2.59	2.49	2.75	0.0025	CDEMDMW20186.60TOC*
CDEMDMW20204.40PHY	MW20	203	208	Mudstone	0.08	3.3	2.63	2.55	2.78	0.0287	CDEMDMW20204.40TOC
CDEMDMW20225.60PHY	MW20	223	228	Mudstone	0.1	3.4	2.61	2.52	2.81	0.0025	CDEMDMW20226.30TOC*
CDEMDMW20246.20PHY	MW20	243	248	Mudstone	0.09	2.9	2.63	2.56	2.8	0.0157	CDEMDMW20246.20TOC
CDEMDMW20267.70PHY	MW20	263	268	Mudstone	0.11	3.9	2.55	2.45	2.76	0.00275	CDEMDMW20267.70TOC*
CDEMDMW20287.70PHY	MW20	283	288	Mudstone	0.08	2.8	2.63	2.55	2.78	0.00275	CDEMDMW20287.70TOC*
CDEMDMW20308.40PHY	MW20	308	313	Mudstone	0.08	2.8	2.64	2.57	2.79	0.0129	CDEMDMW20308.40TOC
CDEMDMW20330.00PHY	MW20	328	333	Mudstone	0.07	2.5	2.64	2.58	2.77	0.0025	CDEMDMW20330.00TOC*
CDEMDMW20352.70PHY	MW20	348	353	Mudstone	0.12	3.7	2.58	2.48	2.81	NA	CDEMDMW20352.70TOC[1]
CDEMDMW20368.70PHY	MW20	368	373	Mudstone	0.1	3	2.64	2.56	2.83	0.0199	CDEMDMW20368.70TOC
CDEMDMW20388.40PHY	MW20	388	393	Mudstone	0.08	2.8	2.62	2.55	2.77	0.0122	CDEMDMW20388.40TOC

R2-0016738

Table 3 Results of Physical Properties and TOC Measurements - Revised 4/16/2010

CDEMDMW20408.40PHY	MW20	408	413	Mudstone	0.08	2.8	2.63	2.56	2.78	0.0025	CDEMDMW20408.40TOC*
CDEMDMW14027.20PHY	MW14	24	29	Mudstone	0.16	7	2.52	2.36	2.82	0.00275	CDEMDMW14027.20TOC*
CDEMDMW14049.30PHY	MW14	49	54	Mudstone	0.13	5.1	2.55	2.42	2.78	0.0025	CDEMDMW14049.30TOC*
CDEMDMW14075.90PHY	MW14	73	78	Mudstone	0.09	2.9	2.62	2.55	2.8	0.0332	CDEMDMW14076.20TOC
CDEMDMW14093.40PHY	MW14	93	98	Mudstone	0.09	3.4	2.62	2.54	2.8	0.0247	CDEMDMW14093.40TOC
CDEMDMW14110.00PHY	MW14	108	113	Mudstone	0.08	2.9	2.64	2.56	2.78	0.0227	CDEMDMW14110.00TOC
CDEMDMW14131.00PHY	MW14	128	133	Mudstone	0.07	1.9	2.67	2.62	2.82	0.0025	CDEMDMW14131.00TOC*
CDEMDMW14151.10PHY	MW14	148	153	Mudstone	0.11	3.9	2.65	2.55	2.86	0.0146	CDEMDMW14151.10TOC
CDEMDMW14171.80PHY	MW14	168	173	Mudstone	0.08	2.8	2.66	2.58	2.81	0.0148	CDEMDMW14171.80TOC
CDEMDMW14192.00PHY	MW14	188	193	Mudstone	0.08	2.1	2.62	2.56	2.78	0.0177	CDEMDMW14192.00TOC
CDEMDMW14211.40PHY	MW14	208	213	Mudstone	0.09	2.7	2.6	2.54	2.8	0.0164	CDEMDMW14211.40TOC
CDEMDMW14232.50PHY	MW14	213	228	Mudstone	0.12	4.1	2.54	2.44	2.78	0.0153	CDEMDMW14232.50TOC
				Minimum	0.06	1.7	2.44	2.27	2.72	0.0025	
				Maximum	0.17	7.2	2.67	2.62	2.86	0.2	
				Average	0.099	3.5	2.6	2.5	2.8	0.014	

Notes:

* Indicates TOC for sample was reported as the ¼ MDL. Percent of TOC in sample is likely less than MDL.

[1] CDEMDMW20352.70TOC was not preserved properly therefore it was not analyzed. NA=Not Analyzed

R2-0016739

Table 4: Summary of VOC Results for Field and Laboratory Blanks

Blank ID	Date Sampled	Date Analyzed	[VOLATILE ORGANIC COMPOUNDS IN METHANOL EXTRACT] (ug/L of MeOH)																		Notes
			1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		1,1-Dichloroethene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene		
CDEMDMW14EB001VOC	2/6/2009	2/9/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW14EB002VOC	2/25/2009	2/26/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW14EB003VOC	2/26/2009	2/27/2009	1.0	U	1.0	U	10	U	1.0	U	0.92	J	10	U	1.0	U	10	U	1.0	U	
CDEMDMW14EB004VOC	2/27/2009	2/28/2009	1.0	U	1.0	U	10	U	1.0	U	1.8		10	U	1.0	U	10	U	1.0	U	
CDEMDMW14EB005VOC	3/3/2009	3/3/2009	1.0	U	1.0	U	10	U	1.0	U	0.98	J	10	U	1.0	U	10	U	1.0	U	
CDEMDMW14EB006VOC	3/3/2009	3/4/2009	1.0	U	1.0	U	10	U	1.0	U	1.6		10	U	1.0	U	10	U	1.0	U	
CDEMDMW14MB001VOC	2/5/2009	2/6/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW14MB002VOC	2/5/2009	2/6/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW14MB03VOC	2/26/2009	2/27/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW16EB001VOC	1/23/2009	1/23/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW16EB002VOC	1/27/2009	1/28/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW16EB003VOC	1/29/2009	1/29/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW16EB004VOC	1/30/2009	1/30/2009	0.34	J	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW16EB005VOC	2/2/2009	2/3/2009	0.37	J	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW16MB002VOC	1/22/2009	1/23/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW16MB003VOC	1/22/2009	1/23/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW16MB004VOC	1/28/2009	1/28/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20EB001VOC	2/10/2009	2/10/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20MB001VOC	2/10/2009	2/10/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20EB002VOC	2/11/2009	2/12/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20EB003VOC	2/11/2009	2/12/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20EB004VOC	2/12/2009	2/13/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20MB002VOC	2/12/2009	2/13/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20EB005VOC	2/13/2009	2/18/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20EB006VOC	2/16/2009	2/17/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20EB007VOC	2/17/2009	2/17/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20EB008VOC	2/18/2009	2/18/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	
CDEMDMW20EB009VOC	2/20/2009	2/20/2009	1.0	U	1.0	U	10	U	1.0	U	1.0	U	10	U	1.0	U	10	U	1.0	U	

EB = Equipment Blank

MB = Methanol Blank

Table 5: Summary of VOC Results for Field Duplicates, Revised 6/03/2010

Sample ID	Estimated Pore Water Concentration (ug/L) and Relative Percent Difference (%RPD)																		Notes
	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		1,1-Dichloroethene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene		
CDEMDMW16072.20VOC	17	U	7.6	J	72	J	15	U	18	U	130	J	16	U	180	U	2200		
CDEMDMW16FD001VOC	2.5	J	23		280		19	U	23	U	220		20	U	230	U	3700		
%RPD	NA		101%		118%		NA		NA		51%		NA		NA		51%		
CDEMDMW16110.20VOC	20	U	13	U	260	U	11	U	28	U	350		13	U	270	U	2300		
CDEMDMW16FD002VOC	37	U	23	U	480	U	21	U	52	U	450	U	23	U	490	U	1100		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		71%		
CDEMDMW16149.70VOC	24	U	21	U	250	U	20	U	26	U	1700		21	U	260	U	3500		
CDEMDMW16FD003VOC	22	U	20	U	240	U	19	U	24	U	2000		20	U	240	U	3800		
%RPD	NA		NA		NA		NA		NA		16%		NA		NA		8%		
CDEMDMW16190.10VOC	42	U	35	U	460	U	33	U	47	U	220	J	35	U	460	U	1100		
CDEMDMW16FD004VOC	210	J	570	U	7500	U	540	U	760	U	5300	J	570	U	7500	U	22000		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		181%		
CDEMDMW16230.30VOC	0.49	J	1.3	U	65	U	1.1	U	8.9	U	51	U	1.4	U	71	U	15		
CDEMDMW16FD005VOC	2.8	U	1.2	U	58	U	1	U	7.9	U	46	U	1.2	U	63	U	12		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		22%		
CDEMDMW20058.50VOC	15	U	14	U	160	U	14	U	16	U	160	U	14	U	160	U	16	U	
CDEMDMW20FD001VOC	13	U	12	U	130	U	12	U	13	U	130	U	12	U	130	U	17	B	
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		NA		
CDEMDMW20090.75VOC	26	U	23	U	270	U	23	U	28	U	270	U	24	U	280	U	140		
CDEMDMW20FD002VOC	28	U	25	U	300	U	25	U	30	U	290	U	26	U	300	U	86		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		48%		
CDEMDMW20120.70VOC	36	U	32	U	390	U	30	U	39	U	380	U	32	U	390	U	42		
CDEMDMW20FD003VOC	26	U	23	U	280	U	22	U	28	U	270	U	23	U	280	U	45		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		7%		
CDEMDMW20156.15VOC	16	U	9.6	U	230	U	8.6	U	25	U	210	U	9.8	U	230	U	340		
CDEMDMW20FD004VOC	16	U	9.6	U	230	U	8.6	U	25	U	210	U	9.8	U	230	U	420		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		21%		

Table 5: Summary of VOC Results for Field Duplicates, Revised 6/03/2010

Sample ID	Estimated Pore Water Concentration (ug/L) and Relative Percent Difference (%RPD)																		Notes
	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		1,1-Dichloroethene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene		
CDEMDMW20192.30VOC	29	U	25	U	300	U	24	U	31	U	300	U	25	U	300	U	160		
CDEMDMW20FD005VOC	44	U	39	U	470	U	38	U	47	U	460	U	39	U	470	U	100		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		46%		
CDEMDMW20231.40VOC	23	U	21	U	240	U	20	U	25	U	240	U	21	U	240	U	170		
CDEMDMW20FD006VOC	29	U	25	U	300	U	25	U	30	U	300	U	25	U	300	U	160		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		6%		
CDEMDMW20268.70VOC	23	U	21	U	250	U	20	U	25	U	240	U	21	U	250	U	370		
CDEMDMW20FD007VOC	21	U	19	U	220	U	18	U	23	U	220	U	19	U	220	U	280		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		28%		
CDEMDMW20310.60VOC	24	U	16	U	310	U	14	U	33	U	290	U	16	U	320	U	350		
CDEMDMW20FD008VOC	20	U	13	U	260	U	12	U	28	U	240	U	13	U	270	U	220		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		46%		
CDEMDMW20349.30VOC	31	U	26	U	330	U	25	U	34	U	330	U	27	U	340	U	81		
CDEMDMW20FD009VOC	32	U	27	U	340	U	26	U	35	U	340	U	27	U	340	U	78		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		4%		
CDEMDMW20387.10VOC	19	U	12	U	240	U	11	U	26	U	230	U	13	U	250	U	21		
CDEMDMW20FD010VOC	17	U	11	U	220	U	10	U	23	U	210	U	11	U	220	U	16	J	
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		27%		
CDEMDMW14059.80VOC	22	U	20	U	230	U	20	U	23	U	21000		37		230	U	24000		
CDEMDMW14FD001VOC	16	U	14	U	160	U	14	U	17	U	15000		27		160	U	16000		
%RPD	NA		NA		NA		NA		NA		33%		31%		NA		40%		
CDEMDMW14105.60VOC	14	U	8.1	U	200	U	7.2	U	23	U	180	U	8.2	U	210	U	16	U	
CDEMDMW14FD002VOC	13	U	7.7	U	190	U	6.8	U	22	U	170	U	7.8	U	200	U	15	U	
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		NA		
CDEMDMW14143.40VOC	17	U	12	U	220	U	11	U	23	U	210	U	12	U	220	U	19	U	
CDEMDMW14FD003VOC	13	U	8.7	U	160	U	7.9	U	17	U	150	U	8.9	U	160	U	14	U	
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		NA		

Table 5: Summary of VOC Results for Field Duplicates, Revised 6/03/2010

Sample ID	Estimated Pore Water Concentration (ug/L) and Relative Percent Difference (%RPD)																		Notes
	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		1,1-Dichloroethene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene		
CDEMDMW14184.10VOC	23	U	14	U	310	U	12	U	34	U	290	U	14	U	320	U	48		
CDEMDMW14FD004VOC	19	U	12	U	260	U	10	U	29	U	240	U	12	U	270	U	50		
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		4%		
CDEMDMW14223.60VOC	17	U	12	U	210	U	11	U	22	U	200	U	12	U	210	U	18	U	
CDEMDMW14FD005VOC	10	U	7.1	U	130	U	6.4	U	13	U	120	U	7.1	U	13	U	11	U	
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		NA		
CDEMDMW14231.30VOC	10	U	6.9	U	120	U	6.3	U	13	U	120	U	6.9	U	130	U	11		
CDEMDMW14FD006VOC	17	U	12	U	210	U	11	U	22	U	200	U	12	U	210	U	5.3	J	
%RPD	NA		NA		NA		NA		NA		NA		NA		NA		70%		

Notes:

1. This table presents data recorded in conducting field sampling and laboratory analysis of rock core samples from thiee drilling locations designated MW14, MW16, and MW20. The rock core drilling was conducted by Advanced Drilling and was observed and logged by Malccolm Pirnie, Inc. personnel during the period of January 21 to March 3, 2009n The samples were collected, processed and preserved in the field by Stone Environmental Inc. (Stone) personnel then transported under COC to Stone's on-site lab where they were extracted and analyzed for the listed target Volatile Organic Compounds (VOCs) using methods developed by UG. Refer to the Stone report text and tables for additional details regarding sampling, sample preparation, extraction, and analysis.

2. The laboratory results for volatile organic compounds in rock are expressed in units of micrograms per gram (ug/g) of rock sample at field moisture conditions at the time of sampling for the target compounds including: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), trans-1,2-dichloroethene (trans-DCE), 1,1-dichloroethene (1,1-DCE), carbon tetrachloride (CT), chloroform (CF) and 1,1,1-trichloroethane (1,1,1-TCA). The values are rounded to two significant figures. "ND" denotes that the compound was not detected, please refer to the report text and appendices for information regarding detection and quantitation limits. The second colum for each compound denotes quality assurance flags including: "U" denoting that a compound was not detected above the method detection limit (MDL); "J" indicated an approximate concentration between the compound and sample-specific MDL and Limit of Quantitation (LOQ) or Reporting Limit (RL); "B" indicates the concentration is suspect since the compound was detected within a factor of five (based on EPA rule for data validation) in an associated laboratory blank or due to GC carryover (reporting limit elevated); "R" denotes sample result rejected due to chromatographic interference causing inadequate peak separation or resolution or other deficiency in data generation process. "NA" denotes a calculation that is not available due to non detections.

3. The Estimated Pore Water Concentration in micrograms per liter (ug/L) represents an estimate of the equivalent matrix porewater concentrations (Cw) computed based on the laboratory determined total mass concentration (mg/g of wet rock), as outlined in the report text, using estimated or measured parameters including rock wet bulk density (g/cm3) as received in the field, matrix porosity, and matrix retardation factor (R). This simplified partitioning analysis assumes the rock matrix porosity was fully saturated with water, and that mass occurs at equilibrium in the dissolved and sorbed phase. Refer to the UG report text for additional details.

R2-0016743

APPENDICES

APPENDIX A: VOC CONCENTRATIONS

A.1. Total VOC Concentrations in Rock Core Samples

A.2. VOC Concentrations in Rock Core Samples - µg/L Pore Water

Table A1: Total VOC Concentrations in Rock Core Samples

	Field Sample Information (2)					Comments/Interpretation (3)			[VOLATILE ORGANIC COMPOUNDS IN ROCK] (ug/kg of rock) (4)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW16022.50VOC	MW16	21.0-24.0	22.5	22.6	22.55	mudstone	bf	hf	1.4	U	1.4	U	14	U	1.4	U	1.4	U	14	U	1.4	U	14	U	1.4	U
CDEMDMW16025.00VOC	MW16	24.0-29.0	25	25.5	25.25	mudstone	bf	hf	11	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	8	
CDEMDMW16027.00VOC	MW16	24.0-29.0	27	27.5	27.25	mudstone	bf	hf	11	U	1.1	U	11	U	1.1	U	1.1	U	15		1.1	U	11	U	24	
CDEMDMW16035.00VOC	MW16	34.0-36.0	35	35.5	35.25	mudstone	bf	hf	2.5	U	2.5	U	25	U	2.5	U	2.5	U	25	U	2.5	U	25	U	36	
CDEMDMW16041.60VOC	MW16	41.0-44.0	41.6	41.8	41.70	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	26		1.2	U	12	U	77	
CDEMDMW16042.80VOC	MW16	41.0-44.0	42.8	43	42.90	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	14	
CDEMDMW16044.80VOC	MW16	44.0-49.0	44.8	45	44.90	mudstone	bf	hf	0.65	U	0.65	U	6.5	U	0.65	U	0.65	U	1.4	J	0.65	U	6.5	U	58	
CDEMDMW16046.60VOC	MW16	44.0-49.0	46.6	46.8	46.70	mudstone	bf	hf	0.68	U	0.68	U	6.8	U	0.68	U	0.68	U	100		0.68	U	6.8	U	390	
CDEMDMW16048.20VOC	MW16	44.0-49.0	48.2	48.4	48.30	mudstone	bf	vf	1	U	1	U	10	U	1	U	1	U	28		1	U	10	U	170	
CDEMDMW16050.00VOC	MW16	49.0-54.0	50	50.1	50.05	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	37		1.1	U	11	U	170	
CDEMDMW16052.00VOC	MW16	49.0-54.0	52	52.1	52.05	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	49		1.1	U	11	U	170	
CDEMDMW16054.30VOC	MW16	54.0-59.0	54.3	54.4	54.35	mudstone	bf	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	19	
CDEMDMW16055.90VOC	MW16	54.0-59.0	55.9	56.1	56.00	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	46		1.1	U	11	U	310	
CDEMDMW16058.20VOC	MW16	54.0-59.0	58.2	58.3	58.25	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	9.5	J	1.2	U	12	U	71	
CDEMDMW16060.40VOC	MW16	59.0-64.0	60.4	60.5	60.45	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	7.4	J	1.1	U	11	U	120	
CDEMDMW16062.00VOC	MW16	59.0-64.0	62	62.1	62.05	mudstone	bf	hf	1.1	U	0.91	J	11	U	1.1	U	1.1	U	32		1.1	U	11	U	240	
CDEMDMW16064.55VOC	MW16	64.0-69.0	64.55	64.65	64.60	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	28	
CDEMDMW16066.60VOC	MW16	64.0-69.0	66.6	66.7	66.65	mudstone	bf	hf	0.1	J	0.7	J	5.4	J	1	U	1	U	9.5	J	1.1	U	10	U	150	
CDEMDMW16068.00VOC	MW16	64.0-69.0	68	68.1	68.05	mudstone	bf	hf	0.14	J	0.82	J	6.3	J	1.2	U	1.2	U	15		1.2	U	12	U	190	
CDEMDMW16070.10VOC	MW16	69.0-74.0	70.1	70.2	70.15	mudstone	bf	hf	1.1	U	0.33	J	1.4	J	1.1	U	1.1	U	12		1.1	U	11	U	190	
CDEMDMW16072.20VOC	MW16	69.0-74.0	72.2	72.3	72.25	mudstone	bf	hf	0.94	U	0.46	J	3.8	J	0.94	U	0.94	U	6.8	J	0.94	U	9.4	U	120	
CDEMDMW16074.30VOC	MW16	74.0-79.0	74.3	74.4	74.35	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	110	
CDEMDMW16075.90VOC	MW16	74.0-79.0	75.9	76	75.95	mudstone	bf	hf	0.18	J	1.5		11		0.8	U	0.8	U	17		0.8	U	8	U	240	
CDEMDMW16078.00VOC	MW16	74.0-79.0	78	78.2	78.10	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	20		1.1	U	11	U	200	
CDEMDMW16079.90VOC	MW16	79.0-84.0	79.9	80	79.95	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	7.2	J	1.1	U	11	U	120	
CDEMDMW16082.00VOC	MW16	79.0-84.0	82	82.1	82.05	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	12		1.1	U	11	U	150	
CDEMDMW16084.55VOC	MW16	84.0-89.0	84.55	84.7	84.63	mudstone	bf	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	120	
CDEMDMW16086.10VOC	MW16	84.0-89.0	86.1	86.2	86.15	mudstone	bf	hf	1.6	U	1.6	U	16	U	0.44	J	1.6	U	16	U	1.6	U	16	U	120	
CDEMDMW16087.80VOC	MW16	84.0-89.0	87.8	87.9	87.85	mudstone	bf	hf	1.1	U	1.1	U	11	U	0.65	J	1.1	U	2.3	J	1.1	U	11	U	89	
CDEMDMW16090.10VOC	MW16	89.0-94.0	90.1	90.2	90.15	mudstone	bf	hf	0.98	U	0.98	U	9.8	U	0.13	J	0.98	U	0.66	J	0.98	U	9.8	U	81	
CDEMDMW16092.70VOC	MW16	89.0-94.0	92.7	92.8	92.75	mudstone	bf	hf	1	U	1	U	10	U	0.28	J	1	U	10	U	1	U	10	U	5.7	
CDEMDMW16094.30VOC	MW16	94.0-99.0	94.3	94.4	94.35	mudstone	bf	hf	2	U	2	U	20	U	2	U	2	U	2	J	2	U	20	U	140	
CDEMDMW16096.10VOC	MW16	94.0-99.0	96.1	96.2	96.15	mudstone	bf	hf	0.85	U	0.85	U	8.5	U	0.42	J	0.85	U	8.5	U	0.85	U	8.5	U	9.9	
CDEMDMW16098.40VOC	MW16	94.0-99.0	98.4	98.5	98.45	mudstone	bf	hf	1.2	U	1.2	U	12	U	0.51	J	1.2	U	12	U	1.2	U	12	U	40	
CDEMDMW16099.80VOC	MW16	99.0-104.0	99.8	99.9	99.85	mudstone	bf	hf	1.4	U	1.4	U	14	U	1.4	U	1.4	U	14	U	1.4	U	14	U	30	
CDEMDMW16101.90VOC	MW16	99.0-104.0	101.9	102	101.95	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	6.8	J	1.1	U	11	U	110	
CDEMDMW16104.70VOC	MW16	104.0-109.0	104.7	104.8	104.75	mudstone	bf	hf	0.94	U	0.94	U	9.4	U	0.94	U	0.94	U	15		0.94	U	9.4	U	120	
CDEMDMW16106.10VOC	MW16	104.0-109.0	106.1	106.2	106.15	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	18		1.1	U	11	U	160	
CDEMDMW16107.40VOC	MW16	104.0-109.0	107.4	107.5	107.45	mudstone	bf	hf	0.9	U	0.9	U	9	U	0.9	U	0.9	U	22		0.9	U	9	U	130	
CDEMDMW16110.20VOC	MW16	109.0-114.0	110.2	110.4	110.30	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	17		1.2	U	12	U	130	
CDEMDMW16112.20VOC	MW16	109.0-114.0	112	112.1	112.05	mudstone	bf	hf	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	30		0.92	U	9.2	U	140	
CDEMDMW16114.4VOC	MW16	114.0-119.0	114.4	114.5	114.45	mudstone	bf	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	32		1.3	U	13	U	140	
CDEMDMW16115.70VOC	MW16	114.0-119.0	115.7	115.8	115.75	mudstone	bf	hf	1.4	U	1.4	U	14	U	1.4	U	1.4	U	54		1.4	U	14	U	190	
CDEMDMW16117.40VOC	MW16	114.0-119.0	117.4	117.5	117.45	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	46		1	U	10	U	160	
CDEMDMW16119.70VOC	MW16	119.0-124.0	119.7	119.8	119.75	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	62		1.1	U	11	U	190	
CDEMDMW16122.50VOC	MW16	119.0-124.0	122.5	122.6	122.55	mudstone	bf	hf	0.9	U	0.9	U	9	U	0.9	U	0.9	U	9	U	0.9	U	9	U	8	

Table A1: Total VOC Concentrations in Rock Core Samples

	Field Sample Information (2)					Comments/Interpretation (3)			[VOLATILE ORGANIC COMPOUNDS IN ROCK] (ug/kg of rock) (4)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW16125.50VOC	MW16	124.0-129.0	125.5	125.6	125.55	mudstone	bf	hf	0.9	U	0.9	U	9	U	0.9	U	0.9	U	53		0.94		9	U	140	
CDEMDMW16126.70VOC	MW16	124.0-129.0	126.7	126.8	126.75	mudstone	bf	hf	1.4	U	1.4	U	14	U	1.4	U	1.4	U	73		1.4	U	14	U	180	
CDEMDMW16128.40VOC	MW16	124.0-129.0	128.4	128.5	128.45	mudstone	bf	hf	0.81	U	0.81	U	8.1	U	0.81	U	0.81	U	58		0.84		8.1	U	160	
CDEMDMW16130.00VOC	MW16	129.0-134.0	130	130.1	130.05	mudstone	bf	hf	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	40		0.92	U	9.2	U	130	
CDEMDMW16131.90VOC	MW16	129.0-134.0	131.9	132	131.95	mudstone	bf	hf	0.65	U	0.65	U	6.5	U	0.65	U	0.65	U	19		0.65	U	6.5	U	73	
CDEMDMW16134.70VOC	MW16	134.0-139.0	134.7	134.8	134.75	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	13		1.1	U	11	U	77	
CDEMDMW16136.90VOC	MW16	134.0-139.0	136.9	137	136.95	mudstone	bf	hf	1.4	U	1.4	U	14	U	1.4	U	1.4	U	22		1.4	U	14	U	110	
CDEMDMW16138.40VOC	MW16	134.0-139.0	138.4	138.5	138.45	mudstone	bf	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	20		0.84	U	8.4	U	100	
CDEMDMW16140.10VOC	MW16	139.0-144.0	140.1	140.2	140.15	mudstone	bf	hf	1.4	U	1.4	U	14	U	1.4	U	1.4	U	110		1.4	U	14	U	320	
CDEMDMW16142.20VOC	MW16	139.0-144.0	142.2	142.3	142.25	mudstone	bf	hf	0.2	J	1.4	U	14	U	1.4	U	1.4	U	56		1.4	U	14	U	170	
CDEMDMW16144.30VOC	MW16	144.0-149.0	144.3	144.4	144.35	mudstone	bf	hf	1.7	U	1.7	U	17	U	1.7	U	1.7	U	51		1.7	U	17	U	150	
CDEMDMW16146.10VOC	MW16	144.0-149.0	146.1	146.2	146.15	mudstone	bf	hf	0.85	U	0.85	U	8.5	U	0.85	U	0.85	U	47		0.85	U	8.5	U	140	
CDEMDMW16148.40VOC	MW16	144.0-149.0	148.4	148.5	148.45	mudstone	bf	hf	1.7	U	1.7	U	17	U	1.7	U	1.7	U	46		1.7	U	17	U	140	
CDEMDMW16149.70VOC	MW16	149.0-154.0	149.7	150	149.85	mudstone	bf	hf	0.91	U	0.91	U	9.1	U	0.91	U	0.91	U	61		0.91	U	9.1	U	130	
CDEMDMW16151.70VOC	MW16	149.0-154.0	151.7	151.8	151.75	mudstone	bf	hf	0.66	U	0.66	U	6.6	U	0.66	U	0.66	U	48		0.66	U	6.6	U	100	
CDEMDMW16155.60VOC	MW16	154.0-159.0	155.6	155.7	155.65	mudstone	bf	hf	0.21	J	0.79	U	7.9	U	0.79	U	0.79	U	79		0.79	U	7.9	U	190	
CDEMDMW16156.20VOC	MW16	154.0-159.0	156.2	156.3	156.25	mudstone	bf	hf	0.68	J	1.4	U	14	U	1.4	U	1.4	U	12	J	1.4	U	14	U	40	
CDEMDMW16158.00VOC	MW16	154.0-159.0	158	158.1	158.05	mudstone	bf	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	23		0.87	U	8.7	U	46	
CDEMDMW16160.40VOC	MW16	159.0-164.0	160.4	160.5	160.45	mudstone	bf	hf	0.31	J	1.1	U	11	U	1.1	U	1.1	U	42		1.1	U	11	U	77	
CDEMDMW16161.70VOC	MW16	159.0-164.0	161.7	161.8	161.75	mudstone	bf	hf	0.52	U	0.52	U	5.2	U	0.52	U	0.52	U	26		0.52	U	5.2	U	41	
~~CDEMDMW16164.30VOC~~	~~MW16~~	~~164.0-169.0~~	~~164.3~~	~~164.4~~	~~164.35~~	~~mudstone~~	~~bf~~	~~ang~~	~~0.16~~	~~J~~	~~0.78~~	~~U~~	~~7.8~~	~~U~~	~~0.78~~	~~U~~	~~0.78~~	~~U~~	~~11~~		~~0.78~~	~~U~~	~~7.8~~	~~U~~	~~30~~	
CDEMDMW16166.30VOC	MW16	164.0-169.0	166.3	166.4	166.35	mudstone	bet	hf	0.57	U	0.57	U	5.7	U	0.57	U	0.57	U	69		0.57	U	5.7	U	120	
CDEMDMW16167.60VOC	MW16	164.0-169.0	167.6	167.6	167.60	mudstone	bet	hf	0.37	J	0.83	U	8.3	U	0.83	U	0.83	U	27		0.83	U	8.3	U	48	
CDEMDMW16170.30VOC	MW16	169.0-174.0	170.3	170.4	170.35	mudstone	bf	hf	0.13	J	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	14	
CDEMDMW16172.30VOC	MW16	169.0-174.0	172.3	172.4	172.35	mudstone	bf	hf	0.83	U	0.83	U	8.3	U	0.83	U	0.83	U	2.9	J	0.83	U	8.3	U	37	
CDEMDMW16174.35VOC	MW16	174.0-179.0	174.35	174.5	174.43	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	52		1.1	U	11	U	94	
CDEMDMW16175.90VOC	MW16	174.0-179.0	175.9	176	175.95	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	110		1	U	10	U	130	
CDEMDMW16177.90VOC	MW16	174.0-179.0	177.9	178	177.95	mudstone	bf	hf	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	52		0.98	U	9.8	U	83	
CDEMDMW16179.70VOC	MW16	179.0-184.0	179.7	179.8	179.75	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	22		1.1	U	11	U	52	
CDEMDMW16182.50VOC	MW16	179.0-184.0	182.5	182.6	182.55	mudstone	bf	hf	0.78	U	0.78	U	7.8	U	0.78	U	0.78	U	7.8	U	0.78	U	7.8	U	20	
CDEMDMW16184.30VOC	MW16	184.0-189.0	184.3	184.4	184.35	mudstone	bf	hf	0.43	J	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	6.9	
CDEMDMW16186.00VOC	MW16	184.0-189.0	186	186.1	186.05	mudstone	bf	hf	0.25	J	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	13	
CDEMDMW16187.80VOC	MW16	184.0-189.0	187.8	187.9	187.85	mudstone	bf	ang	1.1	U	1.1	U	11	U	1.1	U	1.1	U	15		1.1	U	11	U	56	
CDEMDMW16190.10VOC	MW16	189.0-194.0	190.1	190.3	190.20	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	5.4	J	1.1	U	11	U	28	
CDEMDMW16191.80VOC	MW16	189.0-194.0	191.8	191.9	191.85	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	28		1.1	U	11	U	60	
CDEMDMW16194.90VOC	MW16	194.0-199.0	194.9	195	194.95	mudstone	bf	hf	0.14	J	0.68	U	6.8	U	0.68	U	0.68	U	2.8	J	0.68	U	6.8	U	28	
CDEMDMW16197.10VOC	MW16	194.0-199.0	197.1	197.2	197.15	mudstone	bf	hf	0.27	J	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	2.4	
CDEMDMW16198.50VOC	MW16	194.0-199.0	198.5	198.6	198.55	mudstone	bf	hf	0.17	J	0.97	U	9.7	U	0.97	U	0.97	U	13		0.97	U	9.7	U	50	
CDEMDMW16200.00VOC	MW16	199.0-204.0	200	200.1	200.05	mudstone	bf	vf	0.9	U	0.9	U	9	U	0.9	U	0.9	U	4.2	J	0.9	U	9	U	29	
CDEMDMW16202.10VOC	MW16	199.0-204.0	202.1	202.2	202.15	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW16204.70VOC	MW16	204.0-209.0	204.7	204.8	204.75	mudstone	bf	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	13	
CDEMDMW16206.00VOC	MW16	204.0-209.0	206	206.1	206.05	mudstone	bf	hf	0.14	J	1	U	10	U	1	U	1	U	10	U	1	U	10	U	15	
CDEMDMW16207.30VOC	MW16	204.0-209.0	207.3	207.4	207.35	mudstone	bf	hf	0.94	U	0.94	U	9.4	U	0.94	U	0.94	U	9.4	U	0.94	U	9.4	U	2	
CDEMDMW16210.30VOC	MW16	209.0-214.0	210.3	210.4	210.35	mudstone	bf	hf	0.48	U	0.48	U	4.8	U	0.48	U	0.48	U	4.8	U	0.48	U	4.8	U	0.48	U
CDEMDMW16212.00VOC	MW16	209.0-214.0	212	212.1	212.05	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	8	

R2-0016747

Table A1: Total VOC Concentrations in Rock Core Samples

	Field Sample Information (2)					Comments/Interpretation (3)			[VOLATILE ORGANIC COMPOUNDS IN ROCK] (ug/kg of rock) (4)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW16214.30VOC	MW16	214.0-219.0	214.3	214.4	214.35	mudstone	f4	na	0.11	J	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	0.87	U
CDEMDMW16216.80VOC	MW16	214.0-219.0	216.8	216.9	216.85	mudstone	bf	hf	0.93	U	0.93	U	9.3	U	0.93	U	0.93	U	9.3	U	0.93	U	9.3	U	0.93	U
CDEMDMW16217.80VOC	MW16	214.0-219.0	217.8	217.9	217.85	mudstone	bf	hf	0.78	U	0.78	U	7.8	U	0.78	U	0.78	U	7.8	U	0.78	U	7.8	U	0.78	U
CDEMDMW16221.35VOC	MW16	219.0-224.0	221.35	221.5	221.43	mudstone	bf	hf	0.7	U	0.7	U	7	U	0.7	U	0.7	U	7	U	0.7	U	7	U	0.7	U
CDEMDMW16223.05VOC	MW16	219.0-224.0	223.05	223.2	223.13	mudstone	bf	hf	0.73	U	0.73	U	7.3	U	0.73	U	0.73	U	7.3	U	0.73	U	7.3	U	0.73	U
CDEMDMW16224.60VOC	MW16	224.0-229.0	224.6	224.7	224.65	mudstone	bf	hf	0.77	U	0.77	U	7.7	U	0.77	U	0.77	U	7.7	U	0.77	U	7.7	U	0.77	U
CDEMDMW16226.00VOC	MW16	224.0-229.0	226	226.1	226.05	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	
CDEMDMW16227.70VOC	MW16	224.0-229.0	227.7	227.8	227.75	mudstone	bet	hf	0.11	J	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	10	
CDEMDMW16230.30VOC	MW16	229.0-234.0	230	230.3	230.15	mudstone	bf	hf	0.16	J	1	U	10	U	1	U	1	U	10	U	1	U	10	U	4	
CDEMDMW16233.40VOC	MW16	229.0-234.0	233.4	233.5	233.45	mudstone	bet	hf	0.74	U	0.74	U	7.4	U	0.74	U	0.74	U	7.4	U	0.74	U	7.4	U	5.9	
CDEMDMW16234.70VOC	MW16	234.0-239.0	234.7	234.8	234.75	mudstone	bf	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	3.7	
CDEMDMW16236.90VOC	MW16	234.0-239.0	236.9	237	236.95	mudstone	bf	hf	0.85	U	0.85	U	8.5	U	0.85	U	0.85	U	8.5	U	0.85	U	8.5	U	2.2	
CDEMDMW16238.30VOC	MW16	234.0-239.0	238.3	238.4	238.35	mudstone	bf	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	1.8	
CDEMDMW16241.10VOC	MW16	239.0-244.0	241.1	241.2	241.15	mudstone	matrix	na	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	0.67	J
CDEMDMW16245.40VOC	MW16	244.0-249.0	245.4	245.4	245.40	mudstone	bet	hf	0.68	U	0.68	U	6.8	U	0.68	U	0.68	U	6.8	U	0.68	U	6.8	U	2.7	
CDEMDMW16247.40VOC	MW16	244.0-249.0	247.4	247.5	247.45	mudstone	bf	hf	0.96	U	0.96	U	9.6	U	0.96	U	0.96	U	9.6	U	0.96	U	9.6	U	4.2	
CDEMDMW16251.50VOC	MW16	249.0-254.0	251.5	251.6	251.55	mudstone	f7	na	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	7.8	
CDEMDMW20029.10VOC	MW20	28.0-33.0	29.1	29.2	29.15	mudstone	bf	hf	0.99	U	0.99	U	9.9	U	0.99	U	0.99	U	9.9	U	0.99	U	9.9	U	0.99	U
CDEMDMW20030.10VOC	MW20	28.0-33.0	30.1	30.2	30.15	mudstone	bf	hf/ang	0.99	U	0.99	U	9.9	U	0.99	U	0.99	U	9.9	U	0.99	U	9.9	U	0.99	U
CDEMDMW20030.85VOC	MW20	28.0-33.0	30.85	30.95	30.90	mudstone	bf	hf	0.89	U	0.89	U	8.9	U	0.89	U	0.89	U	8.9	U	0.89	U	8.9	U	0.89	U
~~CDEMDMW20031.48VOC~~	~~MW20~~	~~28.0-33.0~~	~~31.48~~	~~31.58~~	~~31.53~~	~~mudstone~~	~~bet~~	~~hf~~	~~0.76~~	~~U~~	~~0.76~~	~~U~~	~~7.6~~	~~U~~	~~0.76~~	~~U~~	~~0.76~~	~~U~~	~~7.6~~	~~U~~	~~0.76~~	~~U~~	~~7.6~~	~~U~~	~~0.76~~	~~U~~
CDEMDMW20035.10VOC	MW20	33.0-38.0	35.1	35.2	35.15	mudstone	bf	hf	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	0.92	U
CDEMDMW20037.50VOC	MW20	33.0-38.0	37.5	37.6	37.55	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1	U
CDEMDMW20038.70VOC	MW20	38.0-43.0	38.7	38.8	38.75	mudstone	bf	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	8.4	U	0.84	U	8.4	U	0.84	U
CDEMDMW20039.70VOC	MW20	38.0-43.0	39.7	39.8	39.75	mudstone	f5	na	0.83	U	0.83	U	8.3	U	0.83	U	0.83	U	8.3	U	0.83	U	8.3	U	1.9	B
CDEMDMW20040.40VOC	MW20	38.0-43.0	40.4	40.5	40.45	mudstone	f5	na	0.94	U	0.94	U	9.4	U	0.94	U	0.94	U	9.4	U	0.94	U	9.4	U	3.9	B
CDEMDMW20041.90VOC	MW20	38.0-43.0	41.9	42	41.95	mudstone	bf	hf	0.93	U	0.93	U	9.3	U	0.93	U	0.93	U	9.3	U	0.93	U	9.3	U	2.9	B
CDEMDMW20043.80VOC	MW20	43.0-48.0	43.8	43.9	43.85	mudstone	bf	hf	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	9.8	U	0.98	U	9.8	U	2.3	B
CDEMDMW20045.20VOC	MW20	43.0-48.0	45.1	45.2	45.15	mudstone	bet	hf	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	3	B
CDEMDMW20046.20VOC	MW20	43.0-48.0	46.1	46.2	46.15	mudstone	matrix	na	0.93	U	0.93	U	9.3	U	0.93	U	0.93	U	9.3	U	0.93	U	9.3	U	5.1	B
CDEMDMW20049.20VOC	MW20	48.0-53.0	49.2	49.3	49.25	mudstone	bet	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	1.3	B
CDEMDMW20049.70VOC	MW20	48.0-53.0	49.7	49.8	49.75	mudstone	bet	hf	0.99	U	0.99	U	9.9	U	0.99	U	0.99	U	9.9	U	0.99	U	9.9	U	2.9	B
CDEMDMW20050.70VOC	MW20	48.0-53.0	50.7	50.8	50.75	mudstone	matrix	na	0.82	U	0.82	U	8.2	U	0.82	U	0.82	U	8.2	U	0.82	U	8.2	U	0.82	U
CDEMDMW20051.70VOC	MW20	48.0-53.0	51.7	51.8	51.75	mudstone	bf	ang	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW20053.70VOC	MW20	53.0-58.0	53.7	53.8	53.75	mudstone	bf	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	0.87	U
CDEMDMW20055.70VOC	MW20	53.0-58.0	55.7	55.8	55.75	mudstone	bet	hf	0.8	U	0.8	U	8	U	0.8	U	0.8	U	8	U	0.8	U	8	U	0.8	U
CDEMDMW20058.50VOC	MW20	58.0-63.0	58.5	58.6	58.55	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW20059.35VOC	MW20	58.0-63.0	59.35	59.45	59.40	mudstone	bf	hf	0.81	U	0.81	U	8.1	U	0.81	U	0.81	U	8.1	U	0.81	U	8.1	U	0.9	B
CDEMDMW20059.90VOC	MW20	58.0-63.0	59.9	60	59.95	mudstone	f5	na	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW20062.15VOC	MW20	58.0-63.0	62.15	62.25	62.20	mudstone	bf	hf	0.72	U	0.72	U	7.2	U	0.72	U	0.72	U	7.2	U	0.72	U	7.2	U	1.6	B
CDEMDMW20063.90VOC	MW20	63.0-68.0	63.9	64	63.95	mudstone	bf	hf	0.89	U	0.89	U	8.9	U	0.89	U	0.89	U	8.9	U	0.89	U	8.9	U	0.9	U
CDEMDMW20065.60VOC	MW20	63.0-68.0	65.6	65.7	65.65	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	1.2	U
CDEMDMW20066.70VOC	MW20	63.0-68.0	66.7	66.8	66.75	mudstone	f3	na	0.8	U	0.8	U	8	U	0.8	U	0.8	U	8	U	0.8	U	8	U	0.8	U
CDEMDMW20069.20VOC	MW20	68.0-73.0	69.2	69.3	69.25	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	1.2	U
CDEMDMW20070.40VOC	MW20	68.0-73.0	70.4	70.5	70.45	mudstone	bf	hf	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	0.24	JB

R2-0016748

Table A1: Total VOC Concentrations in Rock Core Samples

	Field Sample Information (2)					Comments/Interpretation (3)			[VOLATILE ORGANIC COMPOUNDS IN ROCK] (ug/kg of rock) (4)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		1,1-Dichloroethene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW20070.80VOC	MW20	68.0-73.0	70.8	70.9	70.85	mudstone	f5	na	0.9	U	0.9	U	9	U	0.9	U	0.9	U	4.4	J	0.9	U	9	U	3.4	B
CDEMDMW20072.15VOC	MW20	68.0-73.0	72.15	72.25	72.20	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	3.1	J	1.1	U	11	U	2.2	B
CDEMDMW20074.55VOC	MW20	73.0-78.0	74.55	74.65	74.60	mudstone	bet	hf	0.81	U	0.81	U	8.1	U	0.81	U	0.81	U	2.6	J	0.81	U	8.1	U	8.4	B
CDEMDMW20075.30VOC	MW20	73.0-78.0	75.3	75.4	75.35	mudstone	bf	hf	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	3.6	B
CDEMDMW20076.85VOC	MW20	73.0-78.0	76.85	76.95	76.90	mudstone	af	hf	0.82	U	0.82	U	8.2	U	0.82	U	0.82	U	2.5	J	0.82	U	8.2	U	7.7	B
CDEMDMW20080.50VOC	MW20	78.0-83.0	80.5	80.6	80.55	mudstone	f4	na	0.69	U	0.69	U	6.9	U	0.69	U	0.69	U	6.9	U	0.69	U	6.9	U	0.69	U
CDEMDMW20084.20VOC	MW20	83.0-88.0	84.2	84.3	84.25	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	7	B
CDEMDMW20085.30VOC	MW20	83.0-88.0	85.3	85.4	85.35	mudstone	f6	na	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW20086.50VOC	MW20	83.0-88.0	86.5	86.6	86.55	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	7.3	B
CDEMDMW20088.90VOC	MW20	88.0-93.0	88.9	89	88.95	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	18	
CDEMDMW20090.20VOC	MW20	88.0-93.0	90.2	90.3	90.25	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	8.7	
CDEMDMW20090.75VOC	MW20	88.0-93.0	90.75	90.85	90.80	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	6.4	
CDEMDMW20091.80VOC	MW20	88.0-93.0	91.8	91.9	91.85	mudstone	f3	na	0.9	U	0.9	U	9	U	0.9	U	0.9	U	9	U	0.9	U	9	U	0.95	
CDEMDMW20094.25VOC	MW20	93.0-98.0	94.25	94.35	94.30	mudstone	bf	hf/ang	0.97	U	0.97	U	9.7	U	0.97	U	0.97	U	0.52	J	0.97	U	9.7	U	7.1	
CDEMDMW20095.70VOC	MW20	93.0-98.0	95.7	95.8	95.75	mudstone	bf	hf/ang	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	7.6	
CDEMDMW20097.00VOC	MW20	93.0-98.0	97	97.1	97.05	mudstone	f2	na	0.64	U	0.64	U	6.4	U	0.64	U	0.64	U	6.4	U	0.64	U	6.4	U	4.4	
CDEMDMW20099.10VOC	MW20	98.0-103.0	99.1	99.2	99.15	mudstone	bf	hf	0.96	U	0.96	U	9.6	U	0.96	U	0.96	U	9.6	U	0.96	U	9.6	U	4.6	
CDEMDMW20099.80VOC	MW20	98.0-103.0	99.8	99.9	99.85	mudstone	f4	na	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	0.92	U
CDEMDMW20100.45VOC	MW20	98.0-103.0	100.45	100.55	100.50	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1.4	
CDEMDMW20101.80VOC	MW20	98.0-103.0	101.8	101.9	101.85	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	6.7	
~~CDEMDMW20104.70VOC~~	~~MW20~~	~~103.0-108.0~~	~~104.7~~	~~104.8~~	~~104.75~~	~~mudstone~~	~~bet~~	~~hf~~	~~0.99~~	~~U~~	~~0.99~~	~~U~~	~~9.9~~	~~U~~	~~0.99~~	~~U~~	~~0.99~~	~~U~~	~~9.9~~	~~U~~	~~0.99~~	~~U~~	~~9.9~~	~~U~~	~~6.5~~	
CDEMDMW20105.85VOC	MW20	103.0-108.0	105.85	105.95	105.90	mudstone	bf	hf	0.79	U	0.79	U	7.9	U	0.79	U	0.79	U	7.9	U	0.79	U	7.9	U	6.9	
CDEMDMW20106.45VOC	MW20	103.0-108.0	106.45	106.55	106.50	mudstone	f6	na	0.95	U	0.95	U	9.5	U	0.95	U	0.95	U	9.5	U	0.95	U	9.5	U	1.1	
CDEMDMW20109.40VOC	MW20	108.0-113.0	109.4	109.5	109.45	mudstone	bf	ang	0.86	U	0.86	U	8.6	U	0.86	U	0.86	U	8.6	U	0.86	U	8.6	U	3.8	
CDEMDMW20110.65VOC	MW20	108.0-113.0	110.65	110.7	110.68	mudstone	bet	hf	0.76	U	0.76	U	7.6	U	0.76	U	0.76	U	7.6	U	0.76	U	7.6	U	3.7	
CDEMDMW20112.20VOC	MW20	108.0-113.0	112.2	112.3	112.25	mudstone	bet	hf	0.75	U	0.75	U	7.5	U	0.75	U	0.75	U	7.5	U	0.75	U	7.5	U	3	
CDEMDMW20113.80VOC	MW20	113.0-118.0	113.8	113.9	113.85	mudstone	bf	hf	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	4.2	
CDEMDMW20115.50VOC	MW20	113.0-118.0	115.5	115.6	115.55	mudstone	bet	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	8.4	U	0.84	U	8.4	U	3.3	
CDEMDMW20116.80VOC	MW20	113.0-118.0	116.8	116.9	116.85	mudstone	f4	na	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	3.7	
CDEMDMW20118.50VOC	MW20	118.0-123.0	118.5	118.6	118.55	mudstone	bf	hf	1.4	U	1.4	U	14	U	1.4	U	1.4	U	14	U	1.4	U	14	U	1.4	U
CDEMDMW20120.00VOC	MW20	118.0-123.0	120	120.1	120.05	mudstone	bf	hf	0.89	U	0.89	U	8.9	U	0.89	U	0.89	U	8.9	U	0.89	U	8.9	U	3.2	
CDEMDMW20120.70VOC	MW20	118.0-123.0	120.7	120.8	120.75	mudstone	f5	na	1.4	U	1.4	U	14	U	1.4	U	1.4	U	14	U	1.4	U	14	U	1.6	
CDEMDMW20121.35VOC	MW20	118.0-123.0	121.35	121.45	121.40	mudstone	bf	hf	0.9	U	0.9	U	9	U	0.9	U	0.9	U	9	U	0.9	U	9	U	2.4	
CDEMDMW20124.10VOC	MW20	123.0-128.0	124.1	124.2	124.15	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1.2	
CDEMDMW20125.80VOC	MW20	123.0-128.0	125.8	125.9	125.85	mudstone	bet	hf	0.93	U	0.93	U	9.3	U	0.93	U	0.93	U	9.3	U	0.93	U	9.3	U	3.4	
CDEMDMW20127.15VOC	MW20	123.0-128.0	127.15	127.25	127.20	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1	U
CDEMDMW20129.30VOC	MW20	128.0-133.0	129.3	129.4	129.35	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	5.5	
CDEMDMW20130.45VOC	MW20	128.0-133.0	130.45	130.55	130.50	mudstone	bf	hf	0.59	U	0.59	U	5.9	U	0.59	U	0.59	U	5.9	U	0.59	U	5.9	U	6.1	
CDEMDMW20132.50VOC	MW20	128.0-133.0	132.5	132.6	132.55	mudstone	bet	hf	0.78	U	0.78	U	7.8	U	0.78	U	0.78	U	7.8	U	0.78	U	7.8	U	17	
CDEMDMW20134.90VOC	MW20	133.0-138.0	134.9	135	134.95	mudstone	tf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1	U
CDEMDMW20136.65VOC	MW20	133.0-138.0	136.65	136.75	136.70	mudstone	bet	hf	0.64	U	0.64	U	6.4	U	0.64	U	0.64	U	6.4	U	0.64	U	6.4	U	2.2	
CDEMDMW20139.40VOC	MW20	138.0-143.0	139.4	139.5	139.45	mudstone	bet	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	1.3	U
CDEMDMW20140.40VOC	MW20	138.0-143.0	140.4	140.5	140.45	mudstone	bf	hf	0.99	U	0.99	U	9.9	U	0.99	U	0.99	U	9.9	U	0.99	U	9.9	U	2.2	
CDEMDMW20142.60VOC	MW20	138.0-143.0	142.6	142.7	142.65	mudstone	bf	hf	0.83	U	0.83	U	8.3	U	0.83	U	0.83	U	8.3	U	0.83	U	8.3	U	2.3	
CDEMDMW20143.00VOC	MW20	143.0-148.0	143	143.1	143.05	mudstone	unknown	unknown	0.68	U	0.68	U	6.8	U	0.68	U	0.7		6.8	U	0.68	U	6.8	U	1.1	

Table A1: Total VOC Concentrations in Rock Core Samples

	Field Sample Information (2)					Comments/Interpretation (3)			[VOLATILE ORGANIC COMPOUNDS IN ROCK] (ug/kg of rock) (4)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		1,1-Dichloroethene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW20145.50VOC	MW20	143.0-148.0	145.5	145.6	145.55	mudstone	unknown	unknown	0.8	U	0.8	U	8	U	0.8	U	0.8	U	8	U	0.8	U	8	U	1.8	
CDEMDMW20147.00VOC	MW20	143.0-148.0	147	147.1	147.05	mudstone	unknown	unknown	0.99	U	0.99	U	9.9	U	0.99	U	0.99	U	9.9	U	0.99	U	9.9	U	1.1	
CDEMDMW20149.30VOC	MW20	148.0-153.0	149.3	149.4	149.35	mudstone	f7	na	0.86	U	0.86	U	8.6	U	0.86	U	0.86	U	8.6	U	0.86	U	8.6	U	5.4	
CDEMDMW20150.10VOC	MW20	148.0-153.0	150.1	150.2	150.15	mudstone	bf	hf	0.81	U	0.81	U	8.1	U	0.81	U	0.81	U	8.1	U	0.81	U	8.1	U	7.7	
CDEMDMW20152.00VOC	MW20	148.0-153.0	152	152.1	152.05	mudstone	f5	na	0.9	U	0.9	U	9	U	0.9	U	0.9	U	9	U	0.9	U	9	U	3.1	
CDEMDMW20154.30VOC	MW20	153.0-158.0	154.3	154.4	154.35	mudstone	bf	hf	0.85	U	0.85	U	8.5	U	0.85	U	0.85	U	8.5	U	0.85	U	8.5	U	1.7	
CDEMDMW20156.15VOC	MW20	153.0-158.0	156.15	156.25	156.20	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	23	
CDEMDMW20157.20VOC	MW20	153.0-158.0	157.2	157.3	157.25	mudstone	f2	na	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	6.9	
CDEMDMW20159.50VOC	MW20	158.0-163.0	159.5	159.6	159.55	mudstone	bet	hf	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	7.7	
CDEMDMW20161.00VOC	MW20	158.0-163.0	161	161.1	161.05	mudstone	bf	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	6.7	
CDEMDMW20162.40VOC	MW20	158.0-163.0	162.4	162.5	162.45	mudstone	f4	na	0.76	U	0.76	U	7.6	U	0.76	U	0.76	U	7.6	U	0.76	U	7.6	U	0.76	U
CDEMDMW20164.50VOC	MW20	163.0-168.0	164.5	164.6	164.55	mudstone	bet	hf	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	0.92	U
CDEMDMW20166.70VOC	MW20	163.0-168.0	166.7	166.8	166.75	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1	U
CDEMDMW20168.80VOC	MW20	168.0-173.0	168.8	168.9	168.85	mudstone	bf	hf	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	0.88	U
CDEMDMW20170.40VOC	MW20	168.0-173.0	170.4	170.5	170.45	mudstone	bet	hf	0.99	U	0.99	U	9.9	U	0.99	U	0.99	U	9.9	U	0.99	U	9.9	U	0.99	U
CDEMDMW20171.90VOC	MW20	168.0-173.0	171.9	172	171.95	mudstone	bf	hf	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	4.5	
CDEMDMW20174.00VOC	MW20	173.0-178.0	174	174.1	174.05	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	15	
CDEMDMW20176.00VOC	MW20	173.0-178.0	176	176.1	176.05	mudstone	bf	hf	0.82	U	0.82	U	8.2	U	0.82	U	0.82	U	8.2	U	0.82	U	8.2	U	4.1	
CDEMDMW20178.40VOC	MW20	178.0-183.0	178.4	178.5	178.45	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	8.7	
CDEMDMW20180.70VOC	MW20	178.0-183.0	180.7	180.8	180.75	mudstone	bf	hf	0.67	U	0.67	U	6.7	U	0.67	U	0.67	U	6.7	U	0.67	U	6.7	U	5.7	
CDEMDMW20182.40VOC	MW20	178.0-183.0	182.4	182.5	182.45	mudstone	tf	ang	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	3.5	
CDEMDMW20184.65VOC	MW20	183.0-188.0	184.55	184.65	184.60	mudstone	bf	hf	0.66	U	0.66	U	6.6	U	0.66	U	0.66	U	6.6	U	0.66	U	6.6	U	6.5	
CDEMDMW20187.60VOC	MW20	183.0-188.0	187.5	187.6	187.55	mudstone	tf	hf	0.95	U	0.95	U	9.5	U	0.95	U	0.95	U	9.5	U	0.95	U	9.5	U	6.6	
CDEMDMW20188.70VOC	MW20	188.0-193.0	188.7	188.8	188.75	mudstone	bet	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	4.8	
CDEMDMW20190.60VOC	MW20	188.0-193.0	190.6	190.7	190.65	mudstone	bet	hf	0.7	U	0.7	U	7	U	0.7	U	0.7	U	7	U	0.7	U	7	U	2.6	
CDEMDMW20192.30VOC	MW20	188.0-193.0	192.3	192.4	192.35	mudstone	f3	na	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	6.1	
CDEMDMW20194.80VOC	MW20	193.0-198.0	194.8	194.9	194.85	mudstone	bf	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	2.8	
CDEMDMW20197.10VOC	MW20	193.0-198.0	197.1	197.2	197.15	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1.3	
CDEMDMW20198.85VOC	MW20	198.0-203.0	198.85	198.95	198.90	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	5.6	
CDEMDMW20200.50VOC	MW20	198.0-203.0	200.5	200.6	200.55	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	4.8	
CDEMDMW20202.15VOC	MW20	198.0-203.0	202.15	202.25	202.20	mudstone	bf	hf	0.71	U	0.71	U	7.1	U	0.71	U	0.71	U	7.1	U	0.71	U	7.1	U	5.1	
CDEMDMW20204.90VOC	MW20	203.0-208.0	204.9	205	204.95	mudstone	bf	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	5.3	
CDEMDMW20206.50VOC	MW20	203.0-208.0	206.5	206.6	206.55	mudstone	bf	ang	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	12	
CDEMDMW20209.30VOC	MW20	208.0-213.0	209.3	209.4	209.35	mudstone	bet	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	5.4	
CDEMDMW20210.55VOC	MW20	208.0-213.0	210.55	210.65	210.60	mudstone	tf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	6.1	
CDEMDMW20211.80VOC	MW20	208.0-213.0	211.8	211.9	211.85	mudstone	tf	hf	0.89	U	0.89	U	8.9	U	0.89	U	0.89	U	8.9	U	0.89	U	8.9	U	1.1	
CDEMDMW20214.55VOC	MW20	213.0-218.0	214.55	214.65	214.60	mudstone	bf	hf	0.75	U	0.75	U	7.5	U	0.75	U	0.75	U	7.5	U	0.75	U	7.5	U	1.7	
CDEMDMW20217.20VOC	MW20	213.0-218.0	217.2	217.3	217.25	mudstone	bf	hf	0.74	U	0.74	U	7.4	U	0.74	U	0.74	U	7.4	U	0.74	U	7.4	U	1	
CDEMDMW20219.70VOC	MW20	218.0-223.0	219.7	219.8	219.75	mudstone	bf	hf	0.81	U	0.81	U	8.1	U	0.81	U	0.81	U	8.1	U	0.81	U	8.1	U	1.5	
CDEMDMW20221.55VOC	MW20	218.0-223.0	221.55	221.65	221.60	mudstone	bf	hf	0.83	U	0.83	U	8.3	U	0.83	U	0.83	U	8.3	U	0.83	U	8.3	U	4.1	
CDEMDMW20222.30VOC	MW20	218.0-223.0	222.3	222.4	222.35	mudstone	bf	ang	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	2.9	
CDEMDMW20224.80VOC	MW20	223.0-228.0	224.8	224.9	224.85	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	9.4	
CDEMDMW20227.30VOC	MW20	223.0-228.0	227.3	227.4	227.35	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	5.6	
CDEMDMW20228.80VOC	MW20	228.0-233.0	228.8	228.9	228.85	mudstone	tf	hf	0.72	U	0.72	U	7.2	U	0.72	U	0.72	U	7.2	U	0.72	U	7.2	U	5.5	
CDEMDMW20230.10VOC	MW20	228.0-233.0	230.1	230.2	230.15	mudstone	tf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	6.8	

Table A1: Total VOC Concentrations in Rock Core Samples

	Field Sample Information (2)					Comments/Interpretation (3)			[VOLATILE ORGANIC COMPOUNDS IN ROCK] (ug/kg of rock) (4)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		1,1-Dichloroethene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW20231.40VOC	MW20	228.0-233.0	231.4	231.5	231.45	mudstone	tf	hf	0.97	U	0.97	U	9.7	U	0.97	U	0.97	U	9.7	U	0.97	U	9.7	U	7.2	
CDEMDMW20234.00VOC	MW20	233.0-238.0	234	234.1	234.05	mudstone	bet	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	8.4	U	0.84	U	8.4	U	13	
CDEMDMW20235.40VOC	MW20	233.0-238.0	235.4	235.5	235.45	mudstone	bet	hf	0.93	U	0.93	U	9.3	U	0.93	U	0.93	U	9.3	U	0.93	U	9.3	U	12	
CDEMDMW20239.20VOC	MW20	238.0-243.0	239.1	239.2	239.15	mudstone	tf	hf	0.8	U	0.8	U	8	U	0.8	U	0.8	U	8	U	0.8	U	8	U	1	
CDEMDMW20241.00VOC	MW20	238.0-243.0	240.9	241	240.95	mudstone	bf	hf	0.86	U	0.86	U	8.6	U	0.86	U	0.86	U	8.6	U	0.86	U	8.6	U	0.86	U
CDEMDMW20242.20VOC	MW20	238.0-243.0	242.1	242.2	242.15	mudstone	bf	hf	0.78	U	0.78	U	7.8	U	0.78	U	0.78	U	7.8	U	0.78	U	7.8	U	8.8	
CDEMDMW20244.60VOC	MW20	243.0-248.0	244.6	244.7	244.65	mudstone	bf	vf	0.73	U	0.73	U	7.3	U	0.73	U	0.73	U	7.3	U	0.73	U	7.3	U	23	
CDEMDMW20247.10VOC	MW20	243.0-248.0	247.1	247.2	247.15	mudstone	bf	hf	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	9.8	U	0.98	U	9.8	U	0.98	U
CDEMDMW20248.90VOC	MW20	248.0-253.0	248.9	249	248.95	mudstone	bf	hf	1.4	U	1.4	U	14	U	1.4	U	1.4	U	14	U	1.4	U	14	U	1.4	U
CDEMDMW20250.10VOC	MW20	248.0-253.0	250.1	250.2	250.15	mudstone	bf	hf	1.4	U	1.4	U	14	U	1.4	U	1.4	U	14	U	1.4	U	14	U	1.4	U
CDEMDMW20252.00VOC	MW20	248.0-253.0	252	252.1	252.05	mudstone	bf	hf	0.61	U	0.61	U	6.1	U	0.61	U	0.61	U	6.1	U	0.61	U	6.1	U	0.61	U
CDEMDMW20253.30VOC	MW20	253.0-258.0	253.3	253.4	253.35	mudstone	bet	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	1.2	U
CDEMDMW20254.40VOC	MW20	253.0-258.0	254.4	254.6	254.50	mudstone	tf	ang	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW20255.60VOC	MW20	253.0-258.0	255.6	255.7	255.65	mudstone	bf	hf	0.79	U	0.79	U	7.9	U	0.79	U	0.79	U	7.9	U	0.79	U	7.9	U	12	
CDEMDMW20257.00VOC	MW20	253.0-258.0	257	257.1	257.05	mudstone	bf	hf	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	10	
CDEMDMW20260.10VOC	MW20	258.0-263.0	260.1	260.2	260.15	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	15	
CDEMDMW20261.90VOC	MW20	258.0-263.0	261.9	262	261.95	mudstone	bf	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	8.4	U	0.84	U	8.4	U	9.1	
CDEMDMW20263.60VOC	MW20	263.0-268.0	263.6	263.7	263.65	mudstone	bf	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	17	
CDEMDMW20265.20VOC	MW20	263.0-268.0	265.2	265.3	265.25	mudstone	bf	hf	0.96	U	0.96	U	9.6	U	0.96	U	0.96	U	9.6	U	0.96	U	9.6	U	17	
CDEMDMW20266.20VOC	MW20	263.0-268.0	266.2	266.3	266.25	mudstone	bf	hf	0.93	U	0.93	U	9.3	U	0.93	U	0.93	U	9.3	U	0.93	U	9.3	U	16	
CDEMDMW20268.70VOC	MW20	268.0-273.0	268.7	268.9	268.80	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	17	
CDEMDMW20270.40VOC	MW20	268.0-273.0	270.4	270.5	270.45	mudstone	bet	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	18	
CDEMDMW20272.00VOC	MW20	268.0-273.0	272	272.1	272.05	mudstone	bf	hf	0.93	U	0.93	U	9.3	U	0.93	U	0.93	U	9.3	U	0.93	U	9.3	U	14	
CDEMDMW20273.60VOC	MW20	273.0-278.0	273.6	273.7	273.65	mudstone	bet	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	8.4	U	0.84	U	8.4	U	21	
CDEMDMW20276.60VOC	MW20	273.0-278.0	276.6	276.7	276.65	mudstone	bf	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	36	
CDEMDMW20279.20VOC	MW20	278.0-283.0	279.2	279.3	279.25	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	27	
CDEMDMW20281.50VOC	MW20	278.0-283.0	281.5	281.6	281.55	mudstone	bf	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	23	
CDEMDMW20282.70VOC	MW20	278.0-283.0	282.7	282.8	282.75	mudstone	bet	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	32	
CDEMDMW20284.40VOC	MW20	283.0-288.0	284.4	284.5	284.45	mudstone	bf	hf	0.96	U	0.96	U	9.6	U	0.96	U	0.96	U	9.6	U	0.96	U	9.6	U	22	
CDEMDMW20285.60VOC	MW20	283.0-288.0	285.6	285.7	285.65	mudstone	bf	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	33	
CDEMDMW20288.30VOC	MW20	288.0-293.0	288.3	288.4	288.35	mudstone	bf	hf	0.76	U	0.76	U	7.6	U	0.76	U	0.76	U	7.6	U	0.76	U	7.6	U	23	
CDEMDMW20290.40VOC	MW20	288.0-293.0	290.4	290.5	290.45	mudstone	bet	hf/ang	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	32	
CDEMDMW20291.80VOC	MW20	288.0-293.0	291.8	291.9	291.85	mudstone	bf	hf	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	18	
CDEMDMW20295.50VOC	MW20	293.0-298.0	295.5	295.6	295.55	mudstone	bet	hf/ang	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	37	
CDEMDMW20297.60VOC	MW20	293.0-298.0	297.6	297.7	297.65	mudstone	bet	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	28	
CDEMDMW20298.10VOC	MW20	298.0-303.0	298.1	298.2	298.15	mudstone	bet	hf	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	27	
CDEMDMW20301.30VOC	MW20	298.0-303.0	301.3	301.4	301.35	mudstone	bkn	vf	0.79	U	0.79	U	7.9	U	0.79	U	0.79	U	7.9	U	1.2	U	7.9	U	21	
CDEMDMW20303.20VOC	MW20	303.0-308.0	303.2	303.3	303.25	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	20	
CDEMDMW20305.20VOC	MW20	303.0-308.0	305.2	305.3	305.25	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	48	
CDEMDMW20306.50VOC	MW20	303.0-308.0	306.5	306.6	306.55	mudstone	bkn	vf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	26	
CDEMDMW20310.60VOC	MW20	308.0-313.0	310.6	310.8	310.70	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	16	
CDEMDMW20311.70VOC	MW20	308.0-313.0	311.7	311.8	311.75	mudstone	bf	ang	0.9	U	0.9	U	9	U	0.9	U	0.9	U	9	U	0.9	U	9	U	24	
CDEMDMW20314.20VOC	MW20	313.0-318.0	314.2	314.3	314.25	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	19	
CDEMDMW20315.60VOC	MW20	313.0-318.0	315.6	315.7	315.65	mudstone	bf	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	8.4	U	0.84	U	8.4	U	18	
CDEMDMW20317.30VOC	MW20	313.0-318.0	317.3	317.4	317.35	mudstone	bf	hf	0.77	U	0.77	U	7.7	U	0.77	U	0.77	U	7.7	U	0.77	U	7.7	U	15	

Table A1: Total VOC Concentrations in Rock Core Samples

	Field Sample Information (2)					Comments/Interpretation (3)			[VOLATILE ORGANIC COMPOUNDS IN ROCK] (ug/kg of rock) (4)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW20319.30VOC	MW20	318.0-323.0	319.3	319.4	319.35	mudstone	bf	hf	1.5	U	1.5	U	15	U	1.5	U	1.5	U	15	U	1.5	U	15	U	25	
CDEMDMW20320.80VOC	MW20	318.0-323.0	320.8	320.9	320.85	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	18	
CDEMDMW20323.70VOC	MW20	323.0-328.0	323.7	323.8	323.75	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	21	
CDEMDMW20325.80VOC	MW20	323.0-328.0	325.8	325.9	325.85	mudstone	bf	hf	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	9.8	U	0.98	U	9.8	U	20	
CDEMDMW20327.20VOC	MW20	323.0-328.0	327.2	327.3	327.25	mudstone	bf	hf	0.89	U	0.89	U	8.9	U	0.89	U	0.89	U	8.9	U	0.89	U	8.9	U	7.6	
CDEMDMW20329.00VOC	MW20	328.0-333.0	329	329.1	329.05	mudstone	bf	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	11	
CDEMDMW20331.90VOC	MW20	328.0-333.0	331.9	332	331.95	mudstone	bf	hf	0.89	U	0.89	U	8.9	U	0.89	U	0.89	U	8.9	U	0.89	U	8.9	U	17	
CDEMDMW20334.00VOC	MW20	333.0-338.0	334	334.1	334.05	mudstone	bf	hf	0.85	U	0.85	U	8.5	U	0.85	U	0.85	U	8.5	U	0.85	U	8.5	U	6.6	
CDEMDMW20335.60VOC	MW20	333.0-338.0	335.6	335.7	335.65	mudstone	bf	hf	0.85	U	0.85	U	8.5	U	0.85	U	0.85	U	8.5	U	0.74	U	8.5	U	15	
CDEMDMW20337.10VOC	MW20	333.0-338.0	337.1	337.2	337.15	mudstone	bf	hf	0.74	U	0.74	U	7.4	U	0.74	U	0.74	U	7.4	U	0.74	U	7.4	U	0.95	
CDEMDMW20339.60VOC	MW20	338.0-343.0	339.6	339.7	339.65	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	12	
CDEMDMW20341.20VOC	MW20	338.0-343.0	341.2	341.3	341.25	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	14	
CDEMDMW20344.20VOC	MW20	343.0-348.0	344.2	344.3	344.25	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	2.4		12	U	1.2	U	12	U	11	
CDEMDMW20345.70VOC	MW20	343.0-348.0	345.7	345.8	345.75	mudstone	bet	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	21	
CDEMDMW20347.50VOC	MW20	343.0-348.0	347.5	347.6	347.55	mudstone	bf	hf	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	8.7	
CDEMDMW20349.30VOC	MW20	348.0-353.0	349.3	349.5	349.40	mudstone	bf	hf	0.94	U	0.94	U	9.4	U	0.94	U	0.94	U	9.4	U	0.94	U	9.4	U	2.4	
CDEMDMW20351.30VOC	MW20	348.0-353.0	351.3	351.4	351.35	mudstone	bf	hf	0.92	U	0.92	U	9.2	U	0.92	U	0.92	U	9.2	U	0.92	U	9.2	U	7.7	
CDEMDMW20354.00VOC	MW20	353.0-358.0	354	354.1	354.05	mudstone	bf	hf	0.73	U	0.73	U	7.3	U	0.73	U	0.73	U	7.3	U	0.73	U	7.3	U	8	
CDEMDMW20355.30VOC	MW20	353.0-358.0	355.3	355.4	355.35	mudstone	bet	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	8.4	U	0.84	U	8.4	U	9.2	
CDEMDMW20357.00VOC	MW20	353.0-358.0	357	357.1	357.05	mudstone	bf	hf	0.69	U	0.69	U	6.9	U	0.69	U	0.69	U	6.9	U	0.69	U	6.9	U	0.66	J
CDEMDMW20359.50VOC	MW20	358.0-363.0	359.5	359.6	359.55	mudstone	bf	hf	0.61	U	0.61	U	6.1	U	0.61	U	0.98		6.1	U	0.61	U	6.1	U	9.2	
CDEMDMW20361.00VOC	MW20	358.0-363.0	361	361.1	361.05	mudstone	bet	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	8.4	U	0.84	U	8.4	U	7.9	
CDEMDMW20362.40VOC	MW20	358.0-363.0	362.4	362.5	362.45	mudstone	bf	hf	0.86	U	0.86	U	8.6	U	0.86	U	0.86	U	8.6	U	0.86	U	8.6	U	0.86	U
CDEMDMW20364.00VOC	MW20	363.0-368.0	364	364.1	364.05	mudstone	bet	hf	0.9	U	0.9	U	9	U	0.9	U	0.9	U	9	U	0.9	U	9	U	24	
CDEMDMW20366.00VOC	MW20	363.0-368.0	366	366.1	366.05	mudstone	bf	hf	0.73	U	0.73	U	7.3	U	0.73	U	0.73	U	7.3	U	0.73	U	7.3	U	7	
CDEMDMW20369.00VOC	MW20	368.0-373.0	369	369.1	369.05	mudstone	bf	hf	0.99	U	0.99	U	9.9	U	0.99	U	1.7		9.9	U	0.99	U	9.9	U	4.2	
CDEMDMW20370.50VOC	MW20	368.0-373.0	370.5	370.6	370.55	mudstone	bf	hf	0.86	U	0.86	U	8.6	U	0.86	U	0.86	U	8.6	U	0.86	U	8.6	U	5.2	
CDEMDMW20371.80VOC	MW20	368.0-373.0	371.8	371.9	371.85	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	4.5	
CDEMDMW20373.50VOC	MW20	373.0-378.0	373.5	373.6	373.55	mudstone	bf	hf	0.71	U	0.71	U	7.1	U	0.71	U	0.71	U	7.1	U	0.71	U	7.1	U	3.4	
CDEMDMW20376.10VOC	MW20	373.0-378.0	376.1	376.2	376.15	mudstone	bf	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	10	
CDEMDMW20379.00VOC	MW20	378.0-383.0	379	379.1	379.05	mudstone	bf	hf	0.86	U	0.86	U	8.6	U	0.86	U	0.86	U	8.6	U	0.86	U	8.6	U	4.6	
CDEMDMW20380.50VOC	MW20	378.0-383.0	380.5	380.6	380.55	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	11	
CDEMDMW20381.50VOC	MW20	378.0-383.0	381.5	381.6	381.55	mudstone	bf	hf	0.96	U	0.96	U	9.6	U	0.96	U	0.96	U	9.6	U	0.96	U	9.6	U	0.85	J
CDEMDMW20384.30VOC	MW20	383.0-388.0	384.3	384.5	384.40	mudstone	bf	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	8.4	U	0.84	U	8.4	U	8.8	
CDEMDMW20387.10VOC	MW20	383.0-388.0	387.1	387.2	387.15	mudstone	bf	hf	0.93	U	0.93	U	9.3	U	0.93	U	0.93	U	9.3	U	0.93	U	9.3	U	0.96	
CDEMDMW20389.50VOC	MW20	388.0-393.0	389.5	389.6	389.55	mudstone	bf	hf	0.55	U	0.55	U	5.5	U	0.55	U	0.55	U	5.5	U	0.55	U	5.5	U	0.3	J
CDEMDMW20391.70VOC	MW20	388.0-393.0	391.7	391.8	391.75	mudstone	bf	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	8.4	U	0.84	U	8.4	U	0.84	U
CDEMDMW20392.60VOC	MW20	388.0-393.0	392.6	392.7	392.65	mudstone	bf	hf	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	9.8	U	0.98	U	9.8	U	1.3	
CDEMDMW20394.40VOC	MW20	393.0-398.0	394.4	394.5	394.45	mudstone	bet	hf	0.8	U	0.8	U	8	U	0.8	U	0.8	U	8	U	0.8	U	8	U	3.4	
CDEMDMW20396.40VOC	MW20	393.0-398.0	396.4	396.5	396.45	mudstone	bf	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	9.5	
CDEMDMW20399.10VOC	MW20	398.0-403.0	399.1	399.2	399.15	mudstone	bet	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW20400.70VOC	MW20	398.0-403.0	400.6	400.7	400.65	mudstone	bf	hf	0.97	U	0.97	U	9.7	U	0.97	U	0.97	U	9.7	U	0.97	U	9.7	U	2.6	
CDEMDMW20402.30VOC	MW20	398.0-403.0	402.3	402.4	402.35	mudstone	bf	ang	0.93	U	0.93	U	9.3	U	0.93	U	1	U	9.3	U	0.93	U	9.3	U	1.8	
CDEMDMW20403.70VOC	MW20	403.0-408.0	403.7	403.8	403.75	mudstone	bet	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1.7	
CDEMDMW20406.80VOC	MW20	403.0-408.0	406.8	406.9	406.85	mudstone	bf	hf	0.89	U	0.89	U	8.9	U	0.89	U	0.89	U	8.9	U	0.89	U	8.9	U	2.2	

R2-0016752

Table A1: Total VOC Concentrations in Rock Core Samples

	Field Sample Information (2)					Comments/Interpretation (3)			[VOLATILE ORGANIC COMPOUNDS IN ROCK] (ug/kg of rock) (4)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW20409.50VOC	MW20	408.0-413.0	409.5	409.6	409.55	mudstone	bf	hf	0.82	U	0.82	U	8.2	U	0.82	U	0.82	U	8.2	U	0.82	U	8.2	U	1.9	
CDEMDMW20411.10VOC	MW20	408.0-413.0	411.1	411.2	411.15	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	2.5	
CDEMDMW20412.40VOC	MW20	408.0-413.0	412.4	412.5	412.45	mudstone	bf	hf	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	1.8	
CDEMDMW14023.30VOC	MW14	23.0-24.0	23.3	23.5	23.4	mudstone	bet	hf	0.82	U	0.82	U	9.1		0.82	U	0.82	U	17000		3.3		39		2100	
CDEMDMW14024.80VOC	MW14	24.0-29.0	24.8	24.9	24.85	mudstone	bf	hf	0.7	U	0.7	U	3.1	J	0.7	U	0.7	U	7700		1		12		790	
CDEMDMW14026.40VOC	MW14	24.0-29.0	26.4	26.5	26.45	mudstone	bet	ang	0.75	U	0.75	U	1.8	J	0.75	U	1		9600		1.4		32		3300	
CDEMDMW14027.65VOC	MW14	24.0-29.0	27.65	27.8	27.725	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	10000		1.3		23		2500	
CDEMDMW14030.60VOC	MW14	29.0-34.0	30.6	30.8	30.7	mudstone	bet	hf	0.69	U	0.69	U	6.9	U	0.69	U	0.69	U	3900		0.69	U	14		710	
CDEMDMW14033.00VOC	MW14	29.0-34.0	33	33.1	33.05	mudstone	bf	hf	1.2	U	1.2	U	14		1.2	U	1.2	U	22000		4.7		82		7700	
CDEMDMW14035.70VOC	MW14	34.0-39.0	35.7	35.8	35.75	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	6400		1.2		23		4400	
CDEMDMW14036.90VOC	MW14	34.0-39.0	36.9	37	36.95	mudstone	bf	hf	0.99	U	0.99	U	9.9	U	0.99	U	0.99	U	7200		1.6		21		5700	
CDEMDMW14038.50VOC	MW14	34.0-39.0	38.5	38.6	38.55	mudstone	bf	hf	0.8	U	0.8	U	8	U	0.8	U	0.8	U	5300		1.1		16		3900	
CDEMDMW14040.80VOC	MW14	39.0-44.0	40.8	40.9	40.85	mudstone	bf	ang	0.75	U	0.75	U	7.5	U	0.75	U	0.75	U	4100		1.4		12		4200	
CDEMDMW14043.20VOC	MW14	39.0-44.0	43.2	43.3	43.25	mudstone	bet	hf	0.97	U	0.97	U	9.7	U	0.97	U	0.97	U	2400		1.3		5.5	J	5000	
CDEMDMW14044.40VOC	MW14	44.0-49.0	44.4	44.5	44.45	mudstone	bet	hf	0.65	U	0.65	U	6.5	U	0.65	U	0.65	U	3400		2.6		9.9		3500	
CDEMDMW14046.50VOC	MW14	44.0-49.0	46.5	46.6	46.55	mudstone	bet	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	920		1.1	U	11	U	3100	
CDEMDMW14047.60VOC	MW14	44.0-49.0	47.6	47.7	47.65	mudstone	bet	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	3300		1.4		5.5	J	4400	
CDEMDMW14050.65VOC	MW14	49.0-54.0	50.65	50.8	50.725	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	270		1	U	10	U	1100	
CDEMDMW14052.60VOC	MW14	49.0-54.0	52.6	52.7	52.65	mudstone	bf	hf	0.85	U	0.85	U	8.5	U	0.85	U	0.85	U	840		1.8		8.5	U	2200	
CDEMDMW14055.00VOC	MW14	54.0-59.0	55	55.1	55.05	mudstone	bf	ang	0.97	U	0.97	U	9.7	U	0.97	U	0.97	U	3600		1		9.7	U	2300	
CDEMDMW14057.00VOC	MW14	54.0-59.0	57	57.1	57.05	mudstone	bf	hf	0.81	U	0.81	U	8.1	U	0.81	U	0.81	U	380		1.1		8.1	U	1400	
CDEMDMW14058.20VOC	MW14	54.0-59.0	58.2	58.3	58.25	mudstone	bf	hf	0.84	U	0.84	U	8.4	U	0.84	U	0.84	U	6100		3.1		22		3600	
CDEMDMW14059.80VOC	MW14	59.0-64.0	59.8	60	59.9	mudstone	bet	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	1100		2.2		12	U	1300	
CDEMDMW14061.50VOC	MW14	59.0-64.0	61.5	61.6	61.55	mudstone	bet	hf	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	820		2		9.8	U	790	
CDEMDMW14064.70VOC	MW14	64.0-69.0	64.7	64.8	64.75	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	62		1.2	U	12	U	150	
CDEMDMW14066.50VOC	MW14	64.0-69.0	66.5	66.6	66.55	mudstone	bf	hf	0.75	U	0.75	U	7.5	U	0.75	U	0.75	U	350		0.75	U	7.5	U	220	
CDEMDMW14067.80VOC	MW14	64.0-69.0	67.8	67.9	67.85	mudstone	bet	hf	0.69	U	0.69	U	6.9	U	0.69	U	0.69	U	540		1.1		6.9	U	490	
CDEMDMW14074.00VOC	MW14	73.0-78.0	74	74.1	74.05	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW14075.90VOC	MW14	73.0-78.0	75.9	76	75.95	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	84		20		10	U	300	
CDEMDMW14079.20VOC	MW14	78.0-83.0	79.2	79.3	79.25	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.4		12	U	72	
CDEMDMW14080.30VOC	MW14	78.0-83.0	80.3	80.4	80.35	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	19	
CDEMDMW14082.50VOC	MW14	78.0-83.0	82.5	82.6	82.55	mudstone	bf	hf	0.85	U	0.85	U	8.5	U	0.85	U	0.85	U	8.5	U	0.85	U	8.5	U	43	
CDEMDMW14083.70VOC	MW14	83.0-88.0	83.7	83.8	83.75	mudstone	bf	hf	0.85	U	0.85	U	8.5	U	0.85	U	0.85	U	8.5	U	0.85	U	8.5	U	4.3	
CDEMDMW14085.80VOC	MW14	83.0-88.0	85.8	85.9	85.85	mudstone	bf	hf	0.77	U	0.77	U	7.7	U	0.77	U	0.77	U	7.7	U	1.1		7.7	U	12	
CDEMDMW14089.00VOC	MW14	88.0-93.0	89	89.1	89.05	mudstone	bet	hf	0.97	U	0.97	U	9.7	U	0.97	U	0.97	U	9.7	U	0.97	U	9.7	U	18	
CDEMDMW14090.50VOC	MW14	88.0-93.0	90.5	90.6	90.55	mudstone	bf	hf	0.94	U	0.94	U	9.4	U	0.94	U	0.94	U	9.4	U	0.94	U	9.4	U	0.94	U
CDEMDMW14091.80VOC	MW14	88.0-93.0	91.8	91.9	91.85	mudstone	bf	hf	0.72	U	0.72	U	7.2	U	0.72	U	0.72	U	7.2	U	0.72	U	7.2	U	0.72	U
CDEMDMW14094.80VOC	MW14	93.0-98.0	94.8	94.9	94.85	mudstone	bf	hf	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	9.8	U	0.98	U	9.8	U	0.77	J
CDEMDMW14096.70VOC	MW14	93.0-98.0	96.7	96.8	96.75	mudstone	bf	hf	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	1		8.8	U	3.7	
CDEMDMW14099.00VOC	MW14	98.0-103.0	99	99.1	99.05	mudstone	bf	hf	0.95	U	0.95	U	9.5	U	0.95	U	0.95	U	9.5	U	0.95	U	9.5	U	0.95	U
CDEMDMW14101.00VOC	MW14	98.0-103.0	101	101.1	101.05	mudstone	bet	hf	0.76	U	0.76	U	7.6	U	0.76	U	0.76	U	7.6	U	0.76	U	7.6	U	0.76	U
CDEMDMW14104.10VOC	MW14	103.0-108.0	104.1	104.4	104.25	mudstone	bf	hf	0.58	U	0.58	U	5.8	U	0.58	U	0.58	U	5.8	U	0.58	U	5.8	U	0.58	U
CDEMDMW14105.60VOC	MW14	103.0-108.0	105.6	105.9	105.75	mudstone	bf	hf	0.91	U	0.91	U	9.1	U	0.91	U	0.91	U	9.1	U	0.91	U	9.1	U	0.91	U
CDEMDMW14106.60VOC	MW14	103.0-108.0	106.6	106.8	106.7	mudstone	f12	na	0.64	U	0.64	U	6.4	U	0.64	U	0.64	U	6.4	U	0.64	U	6.4	U	0.64	U
CDEMDMW14108.80VOC	MW14	108.0-113.0	108.8	108.9	108.85	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1		11	U	4.8	

Table A1: Total VOC Concentrations in Rock Core Samples

	Field Sample Information (2)					Comments/Interpretation (3)			[VOLATILE ORGANIC COMPOUNDS IN ROCK] (ug/kg of rock) (4)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		1,1-Dichloroethene		Carbon Tetrachloride		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW14111.50VOC	MW14	108.0-113.0	111.5	111.6	111.55	mudstone	bf	hf	0.83	U	0.83	U	8.3	U	0.83	U	0.83	U	8.3	U	0.83	U	8.3	U	0.83	U
CDEMDMW14114.20VOC	MW14	113.0-118.0	114.2	114.3	114.25	mudstone	bf	hf	0.81	U	0.81	U	8.1	U	0.81	U	0.81	U	8.1	U	0.89		8.1	U	9.4	
CDEMDMW14115.70VOC	MW14	113.0-118.0	115.7	115.8	115.75	mudstone	f15	na	0.83	U	0.83	U	8.3	U	0.83	U	0.83	U	8.3	U	0.83	U	8.3	U	4.4	
CDEMDMW14117.60VOC	MW14	113.0-118.0	117.6	117.7	117.65	mudstone	bf	hf	0.51	U	0.51	U	5.1	U	0.51	U	0.51	U	5.1	U	0.51	U	5.1	U	0.47	J
CDEMDMW14118.50VOC	MW14	118.0-123.0	118.5	118.6	118.55	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	3.7	
CDEMDMW14120.50VOC	MW14	118.0-123.0	120.5	120.6	120.55	mudstone	bet	hf	0.9	U	0.9	U	9	U	0.9	U	0.9	U	9	U	0.9	U	9	U	2.1	
CDEMDMW14122.40VOC	MW14	118.0-123.0	122.4	122.5	122.45	mudstone	bf	ang	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	9.8	U	0.98	U	9.8	U	4.3	
CDEMDMW14124.80VOC	MW14	123.0-128.0	124.8	124.9	124.85	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW14127.30VOC	MW14	123.0-128.0	127.3	127.4	127.35	mudstone	bet	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW14128.50VOC	MW14	128.0-133.0	128.5	128.6	128.55	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1.8	
CDEMDMW14129.50VOC	MW14	128.0-133.0	129.5	129.6	129.55	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	2.2	
CDEMDMW14131.90VOC	MW14	128.0-133.0	131.9	132	131.95	mudstone	bf	hf	0.67	U	0.67	U	6.7	U	0.67	U	0.67	U	6.7	U	0.67	U	6.7	U	2	
CDEMDMW14134.00VOC	MW14	133.0-138.0	134	134.1	134.05	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW14135.30VOC	MW14	133.0-138.0	135.3	135.4	135.35	mudstone	bf	hf	0.76	U	0.76	U	7.6	U	0.76	U	0.76	U	7.6	U	0.76	U	7.6	U	1.6	
CDEMDMW14136.90VOC	MW14	133.0-138.0	136.9	137	136.95	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	3.7	
CDEMDMW14138.80VOC	MW14	138.0-143.0	138.8	138.9	138.85	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1.9	
CDEMDMW14141.80VOC	MW14	138.0-143.0	141.8	141.9	141.85	mudstone	bet	hf	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	9.8	U	0.98	U	9.8	U	3	
CDEMDMW14143.40VOC	MW14	143.0-148.0	143.4	143.5	143.45	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW14145.50VOC	MW14	143.0-148.0	145.5	145.6	145.55	mudstone	bet	hf	0.87	U	0.87	U	8.7	U	0.87	U	0.87	U	8.7	U	0.87	U	8.7	U	1.8	
CDEMDMW14146.70VOC	MW14	143.0-148.0	146.7	146.8	146.75	mudstone	bf	hf	0.86	U	0.86	U	8.6	U	0.86	U	0.86	U	8.6	U	0.86	U	8.6	U	3.1	
CDEMDMW14150.10VOC	MW14	148.0-153.0	150.1	150.2	150.15	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	1.2	U
CDEMDMW14152.80VOC	MW14	148.0-153.0	152.8	152.9	152.85	mudstone	bf	hf	0.66	U	0.66	U	6.6	U	0.66	U	0.66	U	6.6	U	0.66	U	6.6	U	2.2	
CDEMDMW14154.00VOC	MW14	153.0-158.0	154	154.1	154.05	mudstone	bf	hf	0.79	U	0.79	U	7.9	U	0.79	U	0.79	U	7.9	U	0.79	U	7.9	U	0.79	U
CDEMDMW14155.00VOC	MW14	153.0-158.0	155	155.1	155.05	mudstone	bf	hf	0.91	U	0.91	U	9.1	U	0.91	U	0.91	U	9.1	U	0.91	U	9.1	U	0.91	U
CDEMDMW14157.70VOC	MW14	153.0-158.0	157.7	157.8	157.75	mudstone	bf	hf	0.8	U	0.8	U	8	U	0.8	U	0.8	U	8	U	0.8	U	8	U	0.86	
CDEMDMW14159.20VOC	MW14	158.0-163.0	159.2	159.3	159.25	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1	U
CDEMDMW14161.10VOC	MW14	158.0-163.0	161.1	161.2	161.15	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	1.2	U
CDEMDMW14164.30VOC	MW14	163.0-168.0	164.3	164.4	164.35	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	0.98	J	11	U	1.1	U	11	U	1.1	U
CDEMDMW14165.50VOC	MW14	163.0-168.0	165.5	165.6	165.55	mudstone	bet	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	2.4	
CDEMDMW14167.00VOC	MW14	163.0-168.0	167	167.1	167.05	mudstone	bf	hf	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	0.88	U
CDEMDMW14168.90VOC	MW14	168.0-173.0	168.9	169	168.95	mudstone	bf	hf	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	9.8	U	0.61	J	9.8	U	5.3	
CDEMDMW14170.70VOC	MW14	168.0-173.0	170.7	170.8	170.75	mudstone	bf	hf	0.85	U	0.85	U	8.5	U	0.85	U	0.85	U	8.5	U	0.85	U	8.5	U	1.2	
CDEMDMW14174.50VOC	MW14	173.0-178.0	174.5	174.6	174.55	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	0.85	U	11	U	5.5	
CDEMDMW14175.50VOC	MW14	173.0-178.0	175.5	175.6	175.55	mudstone	bf	hf	0.7	U	0.7	U	7	U	0.7	U	0.7	U	7	U	0.7	U	7	U	2.5	
CDEMDMW14177.40VOC	MW14	173.0-178.0	177.4	177.5	177.45	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	3.2	
CDEMDMW14180.20VOC	MW14	178.0-183.0	180.2	180.4	180.3	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW14181.80VOC	MW14	178.0-183.0	181.8	182.4	182.1	mudstone	bf	hf	0.95	U	0.95	U	9.5	U	0.95	U	0.95	U	9.5	U	0.95	U	9.5	U	2.1	
CDEMDMW14184.10VOC	MW14	183.0-188.0	184.1	184.2	184.15	mudstone	bf	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	2.5	
CDEMDMW14185.70VOC	MW14	183.0-188.0	185.7	185.8	185.75	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	2	
CDEMDMW14186.80VOC	MW14	183.0-188.0	186.8	186.9	186.85	mudstone	bf	hf	0.64	U	0.64	U	6.4	U	0.64	U	0.64	U	6.4	U	0.64	U	6.4	U	0.64	U
CDEMDMW14188.80VOC	MW14	188.0-193.0	188.8	188.9	188.85	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	1.1	U
CDEMDMW14190.60VOC	MW14	188.0-193.0	190.6	190.7	190.65	mudstone	bet	hf	1.1	U	1.1	U	11	U	1.1	U	1.1	U	11	U	1.1	U	11	U	5.2	
CDEMDMW14193.60VOC	MW14	193.0-198.0	193.6	193.8	193.7	mudstone	bf	hf	0.94	U	0.94	U	9.4	U	0.94	U	0.94	U	9.4	U	0.94	U	9.4	U	1.9	
CDEMDMW14196.20VOC	MW14	193.0-198.0	196.2	196.4	196.3	mudstone	bf	hf	0.88	U	0.88	U	8.8	U	0.88	U	0.88	U	8.8	U	0.88	U	8.8	U	1.5	
CDEMDMW14197.40VOC	MW14	193.0-198.0	197.4	197.6	197.5	mudstone	bet	hf	0.96	U	0.96	U	9.6	U	0.96	U	0.96	U	9.6	U	0.96	U	9.6	U	1.5	

R2-0016754

Table A1: Total VOC Concentrations in Rock Core Samples

	Field Sample Information (2)					Comments/Interpretation (3)			[VOLATILE ORGANIC COMPOUNDS IN ROCK] (ug/kg of rock) (4)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW14199.30VOC	MW14	198.0-203.0	199.3	199.4	199.35	mudstone	bkn	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	1.2	U
CDEMDMW14201.10VOC	MW14	198.0-203.0	201.1	201.2	201.15	mudstone	bet	hf	0.76	U	0.76	U	7.6	U	0.76	U	0.76	U	7.6	U	0.76	U	7.6	U	0.76	U
CDEMDMW14203.60VOC	MW14	203.0-208.0	203.6	203.7	203.65	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	1.2	U
CDEMDMW14205.00VOC	MW14	203.0-208.0	205	205.1	205.05	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1.6	
CDEMDMW14206.60VOC	MW14	203.0-208.0	206.6	206.7	206.65	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	1.2	U
CDEMDMW14208.50VOC	MW14	208.0-213.0	208.5	208.6	208.55	mudstone	bf	hf	1.3	U	1.3	U	13	U	1.3	U	1.3	U	13	U	1.3	U	13	U	3	
CDEMDMW14210.00VOC	MW14	208.0-213.0	210	210.1	210.05	mudstone	bf	hf	1.1	U	1.1	U	11	U	1.1	U	1.8		11	U	1.1	U	11	U	2.4	
CDEMDMW14214.60VOC	MW14	213.0-218.0	214.6	214.7	214.65	mudstone	bf	hf	1.4	U	1.4	U	14	U	1.4	U	1.1	J	14	U	1.4	U	14	U	1.9	
CDEMDMW14215.80VOC	MW14	213.0-218.0	215.7	215.8	215.75	mudstone	bf	hf	0.62	U	0.62	U	6.2	U	0.62	U	0.62	U	6.2	U	0.62	U	6.2	U	2.9	
CDEMDMW14216.90VOC	MW14	213.0-218.0	216.9	217	216.95	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1.5	
CDEMDMW14219.90VOC	MW14	218.0-223.0	219.9	220	219.95	mudstone	bf	hf	0.93	U	0.93	U	9.3	U	0.93	U	0.93	U	9.3	U	0.93	U	9.3	U	0.93	U
CDEMDMW14221.90VOC	MW14	218.0-223.0	221.9	222	221.95	mudstone	bf	hf	0.98	U	0.98	U	9.8	U	0.98	U	0.98	U	9.8	U	0.98	U	9.8	U	0.98	U
CDEMDMW14223.60VOC	MW14	223.0-228.0	223.6	223.7	223.65	mudstone	bf	hf	1.2	U	1.2	U	12	U	1.2	U	1.2	U	12	U	1.2	U	12	U	1.2	U
CDEMDMW14225.70VOC	MW14	223.0-228.0	225.7	225.8	225.75	mudstone	bet	hf	0.97	U	0.97	U	9.7	U	0.97	U	0.97	U	9.7	U	0.97	U	9.7	U	1.5	
CDEMDMW14227.20VOC	MW14	223.0-228.0	227.2	227.3	227.25	mudstone	bet	hf	0.74	U	0.74	U	7.4	U	0.74	U	0.74	U	7.4	U	0.74	U	7.4	U	1.3	
CDEMDMW14228.90VOC	MW14	228.0-233.0	228.9	229.1	229	mudstone	bf	hf	1	U	1	U	10	U	1	U	1	U	10	U	1	U	10	U	1	U
CDEMDMW14231.30VOC	MW14	228.0-233.0	231.3	231.5	231.4	mudstone	bf	hf	0.7	U	0.7	U	7	U	0.7	U	0.7	U	7	U	0.7	U	7	U	0.7	

Notes:

1. This table presents data recorded in conducting field sampling and laboratory analysis of rock core samples from thiee drilling locations designated MW14, MW16, and MW20. The rock core drilling was conducted by Advanced Drilling and was observed and logged by Malccolm Pirnie, Inc. personnel during the period of January 21 to March 3, 2009n The samples were collected, processed and preserved in the field by Stone Environmental Inc. (Stone) personnel then transported under COC to Stone's on-site lab where they were extracted and analyzed for the listed target Volatile Organic Compounds (VOCs) using methods developed by UG. Refer to the Stone report text and tables for additional details regarding sampling, sample preparation, extraction, and analysis.

2. Field sampling information includes an alphabetical field sample ID, the ID and depth interval of each nominally five-foot core run, and the sample depth in feet from ground surface.

3. The Comments/Interpretation section include general notes regarding the sample characteristics, field classified lithology, position relative to fracturing, and type of fracturing according to Stone standard protocols as explained further below.
   a) Lithologies include fine sandstone (fine ss), siltstone, shale and combinations thereof, and reflect UG/SHA personnel classification of the sample at the time of collection.
   b) Position relative to fracturing indicates the position of the sample relative to observed fractures inferred to reflect insitu features with the following legend:
   "bet"= between closely spaced fractures; "tf"=top of fracture surface; "bf"=bottom of fracture surface; "bkn"=broken or crumbled region; "f#" = sampled distance in feet from fracture surface.
   c) Fracture type denotes relative orientation of fracture relative to the axis of the core with "hf" denoting a horizontal fracture, "vf" a nominally vertical fracture, "ang" an angled fracture, "bkn" a highly fractured/broken zone, and "mech" a mechanical (drilling induced) break, respectively.

4. The laboratory results for volatile organic compounds in rock are expressed in units of micrograms per gram (ug/g) of rock sample at field moisture conditions at the time of sampling for the target compounds including: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), trans-1,2-dichloroethene (trans-DCE), 1,1-dichloroethene (1,1-DCE), carbon tetrachloride (CT), chloroform (CF) and 1,1,1-trichloroethane (1,1,1-TCA). The values are rounded to two significant figures. "ND" denotes that the compound was not detected, please refer to the report text and appendices for information regarding detection and quantitation limits. The second colum for each compound denotes quality assurance flags including: "U" denoting that a compound was not detected above the method detection limit (MDL); "J" indicated an approximate concentration between the compound and sample-specific MDL and Limit of Quantitation (LOQ) or Reporting Limit (RL); "B" indicates the concentration is suspect since the compound was detected within a factor of five (based on EPA rule for data validation) in an associated laboratory blank or due to GC carryover (reporting limit elevated); "R" denotes sample result rejected due to chromatographic interference causing inadequate peak separation or resolution or other deficiency in data generation process.

5. The Estimated Pore Water Concentration in micrograms per liter (ug/L) represents an estimate of the equivalent matrix porewater concentrations (Cw) computed based on the laboratory determined total mass concentration (mg/g of wet rock), as outlined in the report text, using estimated or measured parameters including rock wet bulk density (g/cm3) as received in the field, matrix porosity, and matrix retardation factor (R). This simplified partitioning analysis assumes the rock matrix porosity was fully saturated with water, and that mass occurs at equilibrium in the dissolved and sorbed phase. Refer to the UG report text for additional details.

Table A2: VOC Concentrations in Rock Core Samples - ug/L Pore Water, Revised 4/16/2010

	Field Sample Information (2)					Comments/Interpretation (3)			Estimated Pore Water Concentration (ug/L) (5)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW16022.50VOC	MW16	21.0-24.0	22.5	22.6	22.55	mudstone	bf	hf	28	U	25	U	290	U	24	U	29	U	290	U	25	U	290	U	28	U
CDEMDMW16025.00VOC	MW16	24.0-29.0	25	25.5	25.25	mudstone	bf	hf	220	U	20	U	230	U	19	U	23	U	230	U	20	U	230	U	160	
CDEMDMW16027.00VOC	MW16	24.0-29.0	27	27.5	27.25	mudstone	bf	hf	220	U	20	U	230	U	19	U	23	U	310		20	U	230	U	480	
CDEMDMW16035.00VOC	MW16	34.0-36.0	35	35.5	35.25	mudstone	bf	hf	50	U	45	U	520	U	44	U	52	U	510	U	45	U	520	U	720	
CDEMDMW16041.60VOC	MW16	41.0-44.0	41.6	41.8	41.70	mudstone	bf	hf	24	U	22	U	250	U	21	U	25	U	530		22	U	250	U	1500	
CDEMDMW16042.80VOC	MW16	41.0-44.0	42.8	43	42.90	mudstone	bf	hf	24	U	22	U	250	U	21	U	25	U	250	U	22	U	250	U	280	
CDEMDMW16044.80VOC	MW16	44.0-49.0	44.8	45	44.90	mudstone	bf	hf	13	U	12	U	130	U	11	U	14	U	29	J	12	U	140	U	1200	
CDEMDMW16046.60VOC	MW16	44.0-49.0	46.6	46.8	46.70	mudstone	bf	hf	14	U	12	U	140	U	12	U	14	U	2100		12	U	140	U	7800	
CDEMDMW16048.20VOC	MW16	44.0-49.0	48.2	48.4	48.30	mudstone	bf	vf	20	U	18	U	210	U	17	U	21	U	570		18	U	210	U	3400	
CDEMDMW16050.00VOC	MW16	49.0-54.0	50	50.1	50.05	mudstone	bf	hf	22	U	20	U	230	U	19	U	23	U	760		20	U	230	U	3400	
CDEMDMW16052.00VOC	MW16	49.0-54.0	52	52.1	52.05	mudstone	bf	hf	22	U	20	U	230	U	19	U	23	U	1000		20	U	230	U	3400	
CDEMDMW16054.30VOC	MW16	54.0-59.0	54.3	54.4	54.35	mudstone	bf	hf	24	U	22	U	240	U	21	U	25	U	240	U	22	U	250	U	350	
CDEMDMW16055.90VOC	MW16	54.0-59.0	55.9	56.1	56.00	mudstone	bf	hf	20	U	18	U	210	U	18	U	21	U	860		18	U	210	U	5700	
CDEMDMW16058.20VOC	MW16	54.0-59.0	58.2	58.3	58.25	mudstone	bf	hf	22	U	20	U	230	U	19	U	23	U	180	J	20	U	230	U	1300	
CDEMDMW16060.40VOC	MW16	59.0-64.0	60.4	60.5	60.45	mudstone	bf	hf	20	U	18	U	210	U	18	U	21	U	140	J	18	U	210	U	2200	
CDEMDMW16062.00VOC	MW16	59.0-64.0	62	62.1	62.05	mudstone	bf	hf	20	U	15	J	210	U	18	U	21	U	600		18	U	210	U	4400	
CDEMDMW16064.55VOC	MW16	64.0-69.0	64.55	64.65	64.60	mudstone	bf	hf	20	U	18	U	210	U	18	U	21	U	210	U	18	U	210	U	510	
CDEMDMW16066.60VOC	MW16	64.0-69.0	66.6	66.7	66.65	mudstone	bf	hf	1.8	J	12	J	100	J	16	U	19	U	180	J	18	U	190	U	2700	
CDEMDMW16068.00VOC	MW16	64.0-69.0	68	68.1	68.05	mudstone	bf	hf	2.5	J	14	J	120	J	19	U	23	U	280		20	U	230	U	3500	
CDEMDMW16070.10VOC	MW16	69.0-74.0	70.1	70.2	70.15	mudstone	bf	hf	20	U	5.5	J	26	J	18	U	21	U	220		18	U	210	U	3500	
CDEMDMW16072.20VOC	MW16	69.0-74.0	72.2	72.3	72.25	mudstone	bf	hf	17	U	7.6	J	72	J	15	U	18	U	130	J	16	U	180	U	2200	
CDEMDMW16074.30VOC	MW16	74.0-79.0	74.3	74.4	74.35	mudstone	bf	hf	18	U	13	U	220	U	12	U	23	U	210	U	13	U	220	U	1900	
CDEMDMW16075.90VOC	MW16	74.0-79.0	75.9	76	75.95	mudstone	bf	hf	3	J	18		220		8.7	U	17	U	320		9.6	U	160	U	4200	
CDEMDMW16078.00VOC	MW16	74.0-79.0	78	78.2	78.10	mudstone	bf	hf	18	U	13	U	220	U	12	U	23	U	380		13	U	220	U	3500	
CDEMDMW16079.90VOC	MW16	79.0-84.0	79.9	80	79.95	mudstone	bf	hf	18	U	13	U	220	U	12	U	23	U	140	J	13	U	220	U	2100	
CDEMDMW16082.00VOC	MW16	79.0-84.0	82	82.1	82.05	mudstone	bf	hf	18	U	13	U	220	U	12	U	23	U	230		13	U	220	U	2600	
CDEMDMW16084.55VOC	MW16	84.0-89.0	84.55	84.7	84.63	mudstone	bf	hf	22	U	15	U	260	U	14	U	27	U	250	U	16	U	260	U	2100	
CDEMDMW16086.10VOC	MW16	84.0-89.0	86.1	86.2	86.15	mudstone	bf	hf	27	U	19	U	320	U	4.8	J	33	U	300	U	19	U	320	U	2100	
CDEMDMW16087.80VOC	MW16	84.0-89.0	87.8	87.9	87.85	mudstone	bf	hf	18	U	13	U	220	U	7.1	J	23	U	44	J	13	U	220	U	1600	
CDEMDMW16090.10VOC	MW16	89.0-94.0	90.1	90.2	90.15	mudstone	bf	hf	16	U	12	U	200	U	1.4	J	20	U	13	J	12	U	200	U	1400	
CDEMDMW16092.70VOC	MW16	89.0-94.0	92.7	92.8	92.75	mudstone	bf	hf	17	U	12	U	200	U	3.1	J	21	U	190	U	12	U	200	U	100	
CDEMDMW16094.30VOC	MW16	94.0-99.0	94.3	94.4	94.35	mudstone	bf	hf	34	U	21	U	440	U	19	U	47	U	41	J	21	U	450	U	2500	
CDEMDMW16096.10VOC	MW16	94.0-99.0	96.1	96.2	96.15	mudstone	bf	hf	14	U	8.9	U	190	U	4	J	20	U	170	U	9.1	U	190	U	180	
CDEMDMW16098.40VOC	MW16	94.0-99.0	98.4	98.5	98.45	mudstone	bf	hf	20	U	13	U	260	U	4.8	J	28	U	240	U	13	U	270	U	720	
CDEMDMW16099.80VOC	MW16	99.0-104.0	99.8	99.9	99.85	mudstone	bf	hf	23	U	15	U	310	U	13	U	33	U	290	U	15	U	310	U	540	
CDEMDMW16101.90VOC	MW16	99.0-104.0	101.9	102	101.95	mudstone	bf	hf	18	U	12	U	240	U	10	U	26	U	140	J	12	U	250	U	2000	
CDEMDMW16104.70VOC	MW16	104.0-109.0	104.7	104.8	104.75	mudstone	bf	hf	16	U	9.9	U	210	U	8.9	U	22	U	310		10	U	210	U	2200	
CDEMDMW16106.10VOC	MW16	104.0-109.0	106.1	106.2	106.15	mudstone	bf	hf	18	U	12	U	240	U	10	U	26	U	370		12	U	250	U	2900	
CDEMDMW16107.40VOC	MW16	104.0-109.0	107.4	107.5	107.45	mudstone	bf	hf	15	U	9.5	U	200	U	8.5	U	21	U	450		9.6	U	200	U	2300	
CDEMDMW16110.20VOC	MW16	109.0-114.0	110.2	110.4	110.30	mudstone	bf	hf	20	U	13	U	260	U	11	U	28	U	350		13	U	270	U	2300	
CDEMDMW16112.20VOC	MW16	109.0-114.0	112	112.1	112.05	mudstone	bf	hf	15	U	9.7	U	200	U	8.7	U	22	U	610		9.8	U	210	U	2500	
CDEMDMW16114.4VOC	MW16	114.0-119.0	114.4	114.5	114.45	mudstone	bf	hf	22	U	14	U	290	U	12	U	31	U	650		14	U	290	U	2500	
CDEMDMW16115.70VOC	MW16	114.0-119.0	115.7	115.8	115.75	mudstone	bf	hf	23	U	15	U	310	U	13	U	33	U	1100		15	U	310	U	3400	
CDEMDMW16117.40VOC	MW16	114.0-119.0	117.4	117.5	117.45	mudstone	bf	hf	38	U	31	U	410	U	30	U	42	U	1800		31	U	410	U	6200	
CDEMDMW16119.70VOC	MW16	119.0-124.0	119.7	119.8	119.75	mudstone	bf	hf	41	U	34	U	450	U	33	U	46	U	2500		35	U	450	U	7300	
CDEMDMW16122.50VOC	MW16	119.0-124.0	122.5	122.6	122.55	mudstone	bf	hf	34	U	28	U	370	U	27	U	38	U	360	U	28	U	370	U	310	

R2-0016756

Table A2: VOC Concentrations in Rock Core Samples - ug/L Pore Water, Revised 4/16/2010

	Field Sample Information (2)					Comments/Interpretation (3)			Estimated Pore Water Concentration (ug/L) (5)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW16125.50VOC	MW16	124.0-129.0	125.5	125.6	125.55	mudstone	bf	hf	34	U	28	U	370	U	27	U	38	U	2100		30		370	U	5400	
CDEMDMW16126.70VOC	MW16	124.0-129.0	126.7	126.8	126.75	mudstone	bf	hf	53	U	44	U	570	U	42	U	58	U	2900		44	U	580	U	6900	
CDEMDMW16128.40VOC	MW16	124.0-129.0	128.4	128.5	128.45	mudstone	bf	hf	30	U	25	U	330	U	24	U	34	U	2300		26		330	U	6200	
CDEMDMW16130.00VOC	MW16	129.0-134.0	130	130.1	130.05	mudstone	bf	hf	35	U	29	U	380	U	27	U	38	U	1600		29	U	380	U	5000	
CDEMDMW16131.90VOC	MW16	129.0-134.0	131.9	132	131.95	mudstone	bf	hf	24	U	20	U	270	U	19	U	27	U	760		20	U	270	U	2800	
CDEMDMW16134.70VOC	MW16	134.0-139.0	134.7	134.8	134.75	mudstone	bf	hf	41	U	34	U	450	U	33	U	46	U	520		35	U	450	U	3000	
CDEMDMW16136.90VOC	MW16	134.0-139.0	136.9	137	136.95	mudstone	bf	hf	37	U	32	U	390	U	31	U	40	U	610		33	U	390	U	3000	
CDEMDMW16138.40VOC	MW16	134.0-139.0	138.4	138.5	138.45	mudstone	bf	hf	22	U	19	U	230	U	19	U	24	U	550		20	U	240	U	2700	
CDEMDMW16140.10VOC	MW16	139.0-144.0	140.1	140.2	140.15	mudstone	bf	hf	37	U	32	U	390	U	31	U	40	U	3000		33	U	390	U	8600	
CDEMDMW16142.20VOC	MW16	139.0-144.0	142.2	142.3	142.25	mudstone	bf	hf	5.3	J	32	U	390	U	31	U	40	U	1500		33	U	390	U	4600	
CDEMDMW16144.30VOC	MW16	144.0-149.0	144.3	144.4	144.35	mudstone	bf	hf	45	U	39	U	470	U	38	U	48	U	1400		40	U	480	U	4000	
CDEMDMW16146.10VOC	MW16	144.0-149.0	146.1	146.2	146.15	mudstone	bf	hf	22	U	20	U	240	U	19	U	24	U	1300		20	U	240	U	3800	
CDEMDMW16148.40VOC	MW16	144.0-149.0	148.4	148.5	148.45	mudstone	bf	hf	45	U	39	U	470	U	38	U	48	U	1300		40	U	480	U	3800	
CDEMDMW16149.70VOC	MW16	149.0-154.0	149.7	150	149.85	mudstone	bf	hf	24	U	21	U	250	U	20	U	26	U	1700		21	U	260	U	3500	
CDEMDMW16151.70VOC	MW16	149.0-154.0	151.7	151.8	151.75	mudstone	bf	hf	17	U	15	U	180	U	15	U	19	U	1300		15	U	190	U	2700	
CDEMDMW16155.60VOC	MW16	154.0-159.0	155.6	155.7	155.65	mudstone	bf	hf	6.1	J	20	U	240	U	19	U	25	U	2400		20	U	250	U	5600	
CDEMDMW16156.20VOC	MW16	154.0-159.0	156.2	156.3	156.25	mudstone	bf	hf	20	J	35	U	430	U	34	U	44	U	370	J	35	U	440	U	1200	
CDEMDMW16158.00VOC	MW16	154.0-159.0	158	158.1	158.05	mudstone	bf	hf	25	U	22	U	270	U	21	U	27	U	700		22	U	270	U	1400	
CDEMDMW16160.40VOC	MW16	159.0-164.0	160.4	160.5	160.45	mudstone	bf	hf	9	J	28	U	340	U	27	U	35	U	1300		28	U	340	U	2300	
CDEMDMW16161.70VOC	MW16	159.0-164.0	161.7	161.8	161.75	mudstone	bf	hf	15	U	13	U	160	U	13	U	16	U	790		13	U	160	U	1200	
~~CDEMDMW16164.30VOC~~	~~MW16~~	~~164.0-169.0~~	~~164.3~~	~~164.4~~	~~164.35~~	~~mudstone~~	~~bf~~	~~ang~~	~~4.7~~	~~J~~	~~20~~	~~U~~	~~240~~	~~U~~	~~19~~	~~U~~	~~25~~	~~U~~	~~340~~		~~20~~	~~U~~	~~240~~	~~U~~	~~890~~	
CDEMDMW16166.30VOC	MW16	164.0-169.0	166.3	166.4	166.35	mudstone	bet	hf	17	U	14	U	180	U	14	U	18	U	2100		14	U	180	U	3600	
CDEMDMW16167.60VOC	MW16	164.0-169.0	167.6	167.6	167.60	mudstone	bet	hf	11	J	21	U	260	U	20	U	26	U	820		21	U	260	U	1400	
CDEMDMW16170.30VOC	MW16	169.0-174.0	170.3	170.4	170.35	mudstone	bf	hf	3.8	J	22	U	270	U	21	U	28	U	270	U	22	U	270	U	410	
CDEMDMW16172.30VOC	MW16	169.0-174.0	172.3	172.4	172.35	mudstone	bf	hf	24	U	21	U	260	U	20	U	26	U	89	J	21	U	260	U	1100	
CDEMDMW16174.35VOC	MW16	174.0-179.0	174.35	174.5	174.43	mudstone	bf	hf	42	U	35	U	460	U	33	U	47	U	2100		35	U	460	U	3700	
CDEMDMW16175.90VOC	MW16	174.0-179.0	175.9	176	175.95	mudstone	bf	hf	38	U	32	U	410	U	30	U	42	U	4500		32	U	420	U	5100	
CDEMDMW16177.90VOC	MW16	174.0-179.0	177.9	178	177.95	mudstone	bf	hf	37	U	31	U	410	U	29	U	41	U	2100		31	U	410	U	3200	
CDEMDMW16179.70VOC	MW16	179.0-184.0	179.7	179.8	179.75	mudstone	bf	hf	42	U	35	U	460	U	33	U	47	U	890		35	U	460	U	2000	
CDEMDMW16182.50VOC	MW16	179.0-184.0	182.5	182.6	182.55	mudstone	bf	hf	30	U	25	U	320	U	23	U	33	U	320	U	25	U	320	U	780	
CDEMDMW16184.30VOC	MW16	184.0-189.0	184.3	184.4	184.35	mudstone	bf	hf	16	J	41	U	540	U	39	U	55	U	530	U	41	U	540	U	270	
CDEMDMW16186.00VOC	MW16	184.0-189.0	186	186.1	186.05	mudstone	bf	hf	9.5	J	35	U	460	U	33	U	47	U	450	U	35	U	460	U	510	
CDEMDMW16187.80VOC	MW16	184.0-189.0	187.8	187.9	187.85	mudstone	bf	ang	42	U	35	U	460	U	33	U	47	U	610		35	U	460	U	2200	
CDEMDMW16190.10VOC	MW16	189.0-194.0	190.1	190.3	190.20	mudstone	bf	hf	42	U	35	U	460	U	33	U	47	U	220	J	35	U	460	U	1100	
CDEMDMW16191.80VOC	MW16	189.0-194.0	191.8	191.9	191.85	mudstone	bf	hf	42	U	35	U	460	U	33	U	47	U	1100		35	U	460	U	2300	
CDEMDMW16194.90VOC	MW16	194.0-199.0	194.9	195	194.95	mudstone	bf	hf	2	J	6.3	U	120	U	5.8	U	13	U	46	J	6.4	U	120	U	420	
CDEMDMW16197.10VOC	MW16	194.0-199.0	197.1	197.2	197.15	mudstone	bf	hf	3.8	J	8.6	U	160	U	7.8	U	17	U	150	U	8.7	U	160	U	36	
CDEMDMW16198.50VOC	MW16	194.0-199.0	198.5	198.6	198.55	mudstone	bf	hf	2.4	J	9	U	170	U	8.2	U	18	U	220		9.2	U	170	U	750	
CDEMDMW16200.00VOC	MW16	199.0-204.0	200	200.1	200.05	mudstone	bf	vf	13	U	8.4	U	160	U	7.6	U	17	U	70	J	8.5	U	160	U	430	
CDEMDMW16202.10VOC	MW16	199.0-204.0	202.1	202.2	202.15	mudstone	bf	hf	15	U	10	U	190	U	9.3	U	21	U	180	U	10	U	200	U	16	U
CDEMDMW16204.70VOC	MW16	204.0-209.0	204.7	204.8	204.75	mudstone	bf	hf	12	U	8.1	U	150	U	7.4	U	16	U	140	U	8.2	U	160	U	190	
CDEMDMW16206.00VOC	MW16	204.0-209.0	206	206.1	206.05	mudstone	bf	hf	2	J	9.3	U	180	U	8.5	U	19	U	170	U	9.4	U	180	U	220	
CDEMDMW16207.30VOC	MW16	204.0-209.0	207.3	207.4	207.35	mudstone	bf	hf	13	U	8.8	U	160	U	8	U	18	U	160	U	8.9	U	170	U	30	
CDEMDMW16210.30VOC	MW16	209.0-214.0	210.3	210.4	210.35	mudstone	bf	hf	6.7	U	4.5	U	84	U	4.1	U	9	U	79	U	4.5	U	86	U	7.2	U
CDEMDMW16212.00VOC	MW16	209.0-214.0	212	212.1	212.05	mudstone	bf	hf	3.7	U	1.6	U	78	U	1.4	U	11	U	62	U	1.6	U	85	U	29	
CDEMDMW16214.30VOC	MW16	214.0-219.0	214.3	214.4	214.35	mudstone	f4	na	0.34	J	1.2	U	57	U	0.98	U	7.8	U	45	U	1.2	U	61	U	3.2	U

R2-0016757

Table A2: VOC Concentrations in Rock Core Samples - ug/L Pore Water, Revised 4/16/2010

	Field Sample Information (2)					Comments/Interpretation (3)			Estimated Pore Water Concentration (ug/L) (5)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW16216.80VOC	MW16	214.0-219.0	216.8	216.9	216.85	mudstone	bf	hf	2.9	U	1.2	U	61	U	1.1	U	8.3	U	48	U	1.3	U	66	U	3.4	U
CDEMDMW16217.80VOC	MW16	214.0-219.0	217.8	217.9	217.85	mudstone	bf	hf	2.4	U	1	U	51	U	0.88	U	6.9	U	40	U	1.1	U	55	U	2.9	U
CDEMDMW16221.35VOC	MW16	219.0-224.0	221.35	221.5	221.43	mudstone	bf	hf	2.2	U	0.93	U	46	U	0.79	U	6.2	U	36	U	0.95	U	49	U	2.6	U
CDEMDMW16223.05VOC	MW16	219.0-224.0	223.05	223.2	223.13	mudstone	bf	hf	2.3	U	0.97	U	48	U	0.83	U	6.5	U	38	U	0.99	U	52	U	2.7	U
CDEMDMW16224.60VOC	MW16	224.0-229.0	224.6	224.7	224.65	mudstone	bf	hf	2.4	U	1	U	50	U	0.87	U	6.9	U	40	U	1	U	54	U	2.8	U
CDEMDMW16226.00VOC	MW16	224.0-229.0	226	226.1	226.05	mudstone	bf	hf	3.4	U	1.5	U	72	U	1.2	U	9.8	U	57	U	1.5	U	78	U	4	
CDEMDMW16227.70VOC	MW16	224.0-229.0	227.7	227.8	227.75	mudstone	bet	hf	0.34	J	1.5	U	72	U	1.2	U	9.8	U	57	U	1.5	U	78	U	37	
CDEMDMW16230.30VOC	MW16	229.0-234.0	230	230.3	230.15	mudstone	bf	hf	0.49	J	1.3	U	65	U	1.1	U	8.9	U	51	U	1.4	U	71	U	15	
CDEMDMW16233.40VOC	MW16	229.0-234.0	233.4	233.5	233.45	mudstone	bet	hf	28	U	23	U	300	U	22	U	31	U	300	U	23	U	300	U	230	
CDEMDMW16234.70VOC	MW16	234.0-239.0	234.7	234.8	234.75	mudstone	bf	hf	33	U	27	U	360	U	26	U	36	U	350	U	27	U	360	U	140	
CDEMDMW16236.90VOC	MW16	234.0-239.0	236.9	237	236.95	mudstone	bf	hf	32	U	27	U	350	U	25	U	35	U	340	U	27	U	350	U	85	
CDEMDMW16238.30VOC	MW16	234.0-239.0	238.3	238.4	238.35	mudstone	bf	hf	49	U	41	U	530	U	39	U	54	U	520	U	41	U	530	U	69	
CDEMDMW16241.10VOC	MW16	239.0-244.0	241.1	241.2	241.15	mudstone	matrix	na	35	U	29	U	380	U	27	U	38	U	370	U	29	U	380	U	26	J
CDEMDMW16245.40VOC	MW16	244.0-249.0	245.4	245.4	245.40	mudstone	bet	hf	26	U	21	U	280	U	20	U	28	U	270	U	21	U	280	U	100	
CDEMDMW16247.40VOC	MW16	244.0-249.0	247.4	247.5	247.45	mudstone	bf	hf	36	U	30	U	390	U	29	U	40	U	380	U	30	U	390	U	160	
CDEMDMW16251.50VOC	MW16	249.0-254.0	251.5	251.6	251.55	mudstone	f7	na	38	U	31	U	410	U	30	U	42	U	400	U	31	U	410	U	300	
CDEMDMW20029.10VOC	MW20	28.0-33.0	29.1	29.2	29.15	mudstone	bf	hf	14	U	13	U	140	U	12	U	14	U	140	U	13	U	140	U	14	U
CDEMDMW20030.10VOC	MW20	28.0-33.0	30.1	30.2	30.15	mudstone	bf	hf/ang	14	U	13	U	140	U	12	U	14	U	140	U	13	U	140	U	14	U
CDEMDMW20030.85VOC	MW20	28.0-33.0	30.85	30.95	30.90	mudstone	bf	hf	12	U	11	U	130	U	11	U	13	U	120	U	11	U	130	U	12	U
CDEMDMW20031.48VOC	MW20	28.0-33.0	31.48	31.58	31.53	mudstone	bet	hf	10	U	9.7	U	110	U	9.5	U	11	U	110	U	9.7	U	110	U	10	U
~~CDEMDMW20035.10VOC~~	~~MW20~~	~~33.0-38.0~~	~~35.1~~	~~35.2~~	~~35.15~~	~~mudstone~~	~~bf~~	~~hf~~	~~13~~	~~U~~	~~12~~	~~U~~	~~130~~	~~U~~	~~12~~	~~U~~	~~13~~	~~U~~	~~130~~	~~U~~	~~12~~	~~U~~	~~130~~	~~U~~	~~13~~	~~U~~
CDEMDMW20037.50VOC	MW20	33.0-38.0	37.5	37.6	37.55	mudstone	bf	hf	14	U	13	U	140	U	13	U	14	U	140	U	13	U	140	U	14	U
CDEMDMW20038.70VOC	MW20	38.0-43.0	38.7	38.8	38.75	mudstone	bf	hf	11	U	11	U	120	U	11	U	12	U	120	U	11	U	120	U	12	U
CDEMDMW20039.70VOC	MW20	38.0-43.0	39.7	39.8	39.75	mudstone	f5	na	11	U	11	U	120	U	10	U	12	U	120	U	11	U	120	U	26	B
CDEMDMW20040.40VOC	MW20	38.0-43.0	40.4	40.5	40.45	mudstone	f5	na	13	U	12	U	130	U	12	U	13	U	130	U	12	U	130	U	54	B
CDEMDMW20041.90VOC	MW20	38.0-43.0	41.9	42	41.95	mudstone	bf	hf	13	U	12	U	130	U	12	U	13	U	130	U	12	U	130	U	40	B
CDEMDMW20043.80VOC	MW20	43.0-48.0	43.8	43.9	43.85	mudstone	bf	hf	13	U	13	U	140	U	12	U	14	U	140	U	13	U	140	U	32	B
CDEMDMW20045.20VOC	MW20	43.0-48.0	45.1	45.2	45.15	mudstone	bet	hf	13	U	12	U	130	U	12	U	13	U	130	U	12	U	130	U	41	B
CDEMDMW20046.20VOC	MW20	43.0-48.0	46.1	46.2	46.15	mudstone	matrix	na	13	U	12	U	130	U	12	U	13	U	130	U	12	U	130	U	70	B
CDEMDMW20049.20VOC	MW20	48.0-53.0	49.2	49.3	49.25	mudstone	bet	hf	17	U	16	U	170	U	15	U	17	U	170	U	16	U	170	U	18	B
CDEMDMW20049.70VOC	MW20	48.0-53.0	49.7	49.8	49.75	mudstone	bet	hf	14	U	13	U	140	U	13	U	14	U	140	U	13	U	140	U	41	B
CDEMDMW20050.70VOC	MW20	48.0-53.0	50.7	50.8	50.75	mudstone	matrix	na	12	U	11	U	120	U	11	U	12	U	120	U	11	U	120	U	12	U
CDEMDMW20051.70VOC	MW20	48.0-53.0	51.7	51.8	51.75	mudstone	bf	ang	15	U	14	U	160	U	14	U	16	U	160	U	14	U	160	U	16	U
CDEMDMW20053.70VOC	MW20	53.0-58.0	53.7	54.8	54.25	mudstone	bf	hf	12	U	11	U	130	U	11	U	13	U	120	U	11	U	130	U	12	U
CDEMDMW20055.70VOC	MW20	53.0-58.0	55.7	55.8	55.75	mudstone	bet	hf	11	U	10	U	120	U	10	U	12	U	110	U	10	U	120	U	11	U
CDEMDMW20058.50VOC	MW20	58.0-63.0	58.5	58.6	58.55	mudstone	bf	hf	15	U	14	U	160	U	14	U	16	U	160	U	14	U	160	U	16	U
CDEMDMW20059.35VOC	MW20	58.0-63.0	59.35	59.45	59.40	mudstone	bf	hf	11	U	11	U	120	U	10	U	12	U	120	U	11	U	120	U	13	B
CDEMDMW20059.90VOC	MW20	58.0-63.0	59.9	60	59.95	mudstone	f5	na	15	U	14	U	160	U	14	U	16	U	160	U	14	U	160	U	16	U
CDEMDMW20062.15VOC	MW20	58.0-63.0	62.15	62.25	62.20	mudstone	bf	hf	10	U	9.4	U	100	U	9.2	U	10	U	100	U	9.4	U	100	U	23	B
CDEMDMW20063.90VOC	MW20	63.0-68.0	63.9	64	63.95	mudstone	bf	hf	12	U	12	U	130	U	11	U	13	U	130	U	12	U	130	U	13	U
CDEMDMW20065.60VOC	MW20	63.0-68.0	65.6	65.7	65.65	mudstone	bf	hf	17	U	16	U	170	U	15	U	17	U	170	U	16	U	170	U	17	U
CDEMDMW20066.70VOC	MW20	63.0-68.0	66.7	66.8	66.75	mudstone	f3	na	11	U	10	U	120	U	10	U	12	U	110	U	10	U	120	U	11	U
CDEMDMW20069.20VOC	MW20	68.0-73.0	69.2	69.3	69.25	mudstone	bf	hf	17	U	16	U	170	U	15	U	17	U	170	U	16	U	170	U	17	U
CDEMDMW20070.40VOC	MW20	68.0-73.0	70.4	70.5	70.45	mudstone	bf	hf	13	U	12	U	130	U	12	U	13	U	130	U	12	U	130	U	3.4	JB
CDEMDMW20070.80VOC	MW20	68.0-73.0	70.8	70.9	70.85	mudstone	f5	na	13	U	12	U	130	U	12	U	13	U	63	J	12	U	130	U	48	B
CDEMDMW20072.15VOC	MW20	68.0-73.0	72.15	72.25	72.20	mudstone	bf	hf	15	U	14	U	160	U	14	U	16	U	44	J	14	U	160	U	31	B

Table A2: VOC Concentrations in Rock Core Samples - ug/L Pore Water, Revised 4/16/2010

	Field Sample Information (2)					Comments/Interpretation (3)			Estimated Pore Water Concentration (ug/L) (5)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW20074.55VOC	MW20	73.0-78.0	74.55	74.65	74.60	mudstone	bet	hf	18	U	16	U	190	U	15	U	19	U	59	J	16	U	190	U	190	B
CDEMDMW20075.30VOC	MW20	73.0-78.0	75.3	75.4	75.35	mudstone	bf	hf	20	U	18	U	210	U	17	U	21	U	210	U	18	U	210	U	80	B
CDEMDMW20076.85VOC	MW20	73.0-78.0	76.85	76.95	76.90	mudstone	af	hf	18	U	16	U	190	U	16	U	19	U	57	J	16	U	190	U	170	B
CDEMDMW20080.50VOC	MW20	78.0-83.0	80.5	80.6	80.55	mudstone	f4	na	15	U	14	U	160	U	13	U	16	U	160	U	14	U	160	U	15	U
CDEMDMW20084.20VOC	MW20	83.0-88.0	84.2	84.3	84.25	mudstone	bf	hf	22	U	20	U	230	U	19	U	23	U	230	U	20	U	230	U	150	B
CDEMDMW20085.30VOC	MW20	83.0-88.0	85.3	85.4	85.35	mudstone	f6	na	24	U	22	U	250	U	21	U	25	U	250	U	22	U	250	U	24	U
CDEMDMW20086.50VOC	MW20	83.0-88.0	86.5	86.6	86.55	mudstone	bf	hf	22	U	20	U	230	U	19	U	23	U	230	U	20	U	230	U	160	B
CDEMDMW20088.90VOC	MW20	88.0-93.0	88.9	89	88.95	mudstone	bf	hf	22	U	20	U	230	U	19	U	23	U	230	U	20	U	230	U	400	
CDEMDMW20090.20VOC	MW20	88.0-93.0	90.2	90.3	90.25	mudstone	bf	hf	22	U	20	U	230	U	19	U	23	U	230	U	20	U	230	U	190	
CDEMDMW20090.75VOC	MW20	88.0-93.0	90.75	90.85	90.80	mudstone	bf	hf	26	U	23	U	270	U	23	U	28	U	270	U	24	U	280	U	140	
CDEMDMW20091.80VOC	MW20	88.0-93.0	91.8	91.9	91.85	mudstone	f3	na	20	U	18	U	210	U	17	U	21	U	200	U	18	U	210	U	21	
CDEMDMW20094.25VOC	MW20	93.0-98.0	94.25	94.35	94.30	mudstone	bf	hf/ang	21	U	19	U	220	U	18	U	22	U	12	J	19	U	220	U	160	
CDEMDMW20095.70VOC	MW20	93.0-98.0	95.7	95.8	95.75	mudstone	bf	hf/ang	16	U	15	U	170	U	15	U	17	U	170	U	15	U	170	U	140	
CDEMDMW20097.00VOC	MW20	93.0-98.0	97	97.1	97.05	mudstone	f2	na	12	U	11	U	120	U	11	U	13	U	120	U	11	U	120	U	83	
CDEMDMW20099.10VOC	MW20	98.0-103.0	99.1	99.2	99.15	mudstone	bf	hf	18	U	16	U	190	U	16	U	19	U	180	U	16	U	190	U	87	
CDEMDMW20099.80VOC	MW20	98.0-103.0	99.8	99.9	99.85	mudstone	f4	na	17	U	16	U	180	U	15	U	18	U	180	U	16	U	180	U	17	U
CDEMDMW20100.45VOC	MW20	98.0-103.0	100.45	100.55	100.50	mudstone	bf	hf	19	U	17	U	190	U	17	U	20	U	190	U	17	U	190	U	26	
CDEMDMW20101.80VOC	MW20	98.0-103.0	101.8	101.9	101.85	mudstone	bf	hf	21	U	19	U	210	U	18	U	22	U	210	U	19	U	210	U	130	
CDEMDMW20104.70VOC	MW20	103.0-108.0	104.7	104.8	104.75	mudstone	bet	hf	18	U	17	U	190	U	16	U	19	U	190	U	17	U	190	U	120	
CDEMDMW20105.85VOC	MW20	103.0-108.0	105.85	105.95	105.90	mudstone	bf	hf	15	U	13	U	150	U	13	U	15	U	150	U	13	U	150	U	130	
~~CDEMDMW20106.45VOC~~	~~MW20~~	~~103.0-108.0~~	~~106.45~~	~~106.55~~	~~106.50~~	~~mudstone~~	~~f6~~	~~na~~	~~18~~	~~U~~	~~16~~	~~U~~	~~180~~	~~U~~	~~16~~	~~U~~	~~19~~	~~U~~	~~180~~	~~U~~	~~16~~	~~U~~	~~180~~	~~U~~	~~21~~	
CDEMDMW20109.40VOC	MW20	108.0-113.0	109.4	109.5	109.45	mudstone	bf	ang	16	U	15	U	170	U	14	U	17	U	170	U	15	U	170	U	72	
CDEMDMW20110.65VOC	MW20	108.0-113.0	110.65	110.7	110.68	mudstone	bet	hf	14	U	13	U	150	U	13	U	15	U	150	U	13	U	150	U	70	
CDEMDMW20112.20VOC	MW20	108.0-113.0	112.2	112.3	112.25	mudstone	bet	hf	14	U	13	U	150	U	12	U	15	U	140	U	13	U	150	U	57	
CDEMDMW20113.80VOC	MW20	113.0-118.0	113.8	113.9	113.85	mudstone	bf	hf	16	U	15	U	170	U	15	U	17	U	170	U	15	U	170	U	79	
CDEMDMW20115.50VOC	MW20	113.0-118.0	115.5	115.6	115.55	mudstone	bet	hf	22	U	19	U	230	U	18	U	24	U	230	U	19	U	230	U	88	
CDEMDMW20116.80VOC	MW20	113.0-118.0	116.8	116.9	116.85	mudstone	f4	na	29	U	25	U	300	U	24	U	31	U	300	U	25	U	310	U	98	
CDEMDMW20118.50VOC	MW20	118.0-123.0	118.5	118.6	118.55	mudstone	bf	hf	36	U	32	U	390	U	30	U	39	U	380	U	32	U	390	U	37	U
CDEMDMW20120.00VOC	MW20	118.0-123.0	120	120.1	120.05	mudstone	bf	hf	23	U	20	U	250	U	19	U	25	U	240	U	20	U	250	U	85	
CDEMDMW20120.70VOC	MW20	118.0-123.0	120.7	120.8	120.75	mudstone	f5	na	36	U	32	U	390	U	30	U	39	U	380	U	32	U	390	U	42	
CDEMDMW20121.35VOC	MW20	118.0-123.0	121.35	121.45	121.40	mudstone	bf	hf	23	U	20	U	250	U	20	U	25	U	250	U	20	U	250	U	64	
CDEMDMW20124.10VOC	MW20	123.0-128.0	124.1	124.2	124.15	mudstone	bf	hf	26	U	23	U	280	U	22	U	28	U	270	U	23	U	280	U	32	
CDEMDMW20125.80VOC	MW20	123.0-128.0	125.8	125.9	125.85	mudstone	bet	hf	24	U	21	U	260	U	20	U	26	U	250	U	21	U	260	U	90	
CDEMDMW20127.15VOC	MW20	123.0-128.0	127.15	127.25	127.20	mudstone	bf	hf	26	U	23	U	280	U	22	U	28	U	270	U	23	U	280	U	27	U
CDEMDMW20129.30VOC	MW20	128.0-133.0	129.3	129.4	129.35	mudstone	bf	hf	31	U	27	U	330	U	26	U	34	U	330	U	27	U	330	U	150	
CDEMDMW20130.45VOC	MW20	128.0-133.0	130.45	130.55	130.50	mudstone	bf	hf	15	U	13	U	160	U	13	U	17	U	160	U	13	U	160	U	160	
CDEMDMW20132.50VOC	MW20	128.0-133.0	132.5	132.6	132.55	mudstone	bet	hf	20	U	18	U	220	U	17	U	22	U	210	U	18	U	220	U	450	
CDEMDMW20134.90VOC	MW20	133.0-138.0	134.9	135	134.95	mudstone	tf	hf	20	U	18	U	210	U	18	U	21	U	210	U	18	U	210	U	20	U
CDEMDMW20136.65VOC	MW20	133.0-138.0	136.65	136.75	136.70	mudstone	bet	hf	13	U	12	U	130	U	11	U	14	U	130	U	12	U	130	U	45	
CDEMDMW20139.40VOC	MW20	138.0-143.0	139.4	139.5	139.45	mudstone	bet	hf	26	U	24	U	270	U	23	U	28	U	270	U	24	U	270	U	26	U
CDEMDMW20140.40VOC	MW20	138.0-143.0	140.4	140.5	140.45	mudstone	bf	hf	20	U	18	U	210	U	17	U	21	U	210	U	18	U	210	U	45	
CDEMDMW20142.60VOC	MW20	138.0-143.0	142.6	142.7	142.65	mudstone	bf	hf	17	U	15	U	170	U	15	U	18	U	170	U	15	U	170	U	47	
CDEMDMW20143.00VOC	MW20	143.0-148.0	143	143.1	143.05	mudstone	unknown	unknown	14	U	12	U	140	U	12	U	15		140	U	12	U	140	U	22	
CDEMDMW20145.50VOC	MW20	143.0-148.0	145.5	145.6	145.55	mudstone	unknown	unknown	16	U	15	U	170	U	14	U	17	U	170	U	15	U	170	U	37	
CDEMDMW20147.00VOC	MW20	143.0-148.0	147	147.1	147.05	mudstone	unknown	unknown	20	U	18	U	210	U	17	U	21	U	210	U	18	U	210	U	22	
CDEMDMW20149.30VOC	MW20	148.0-153.0	149.3	149.4	149.35	mudstone	f7	na	17	U	16	U	180	U	15	U	18	U	180	U	16	U	180	U	110	

R2-0016759

Table A2: VOC Concentrations in Rock Core Samples - ug/L Pore Water, Revised 4/16/2010

	Field Sample Information (2)					Comments/Interpretation (3)			Estimated Pore Water Concentration (ug/L) (5)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW20150.10VOC	MW20	148.0-153.0	150.1	150.2	150.15	mudstone	bf	hf	16	U	15	U	170	U	14	U	17	U	170	U	15	U	170	U	160	
CDEMDMW20152.00VOC	MW20	148.0-153.0	152	152.1	152.05	mudstone	f5	na	18	U	16	U	190	U	16	U	19	U	190	U	16	U	190	U	63	
CDEMDMW20154.30VOC	MW20	153.0-158.0	154.3	154.4	154.35	mudstone	bf	hf	17	U	15	U	180	U	15	U	18	U	180	U	16	U	180	U	35	
CDEMDMW20156.15VOC	MW20	153.0-158.0	156.15	156.25	156.20	mudstone	bf	hf	16	U	9.6	U	230	U	8.6	U	25	U	210	U	9.8	U	230	U	340	
CDEMDMW20157.20VOC	MW20	153.0-158.0	157.2	157.3	157.25	mudstone	f2	na	13	U	7.4	U	170	U	6.6	U	19	U	160	U	7.5	U	180	U	100	
CDEMDMW20159.50VOC	MW20	158.0-163.0	159.5	159.6	159.55	mudstone	bet	hf	12	U	7.1	U	170	U	6.3	U	18	U	150	U	7.2	U	170	U	110	
CDEMDMW20161.00VOC	MW20	158.0-163.0	161	161.1	161.05	mudstone	bf	hf	18	U	10	U	250	U	9.3	U	27	U	220	U	11	U	250	U	100	
CDEMDMW20162.40VOC	MW20	158.0-163.0	162.4	162.5	162.45	mudstone	f4	na	10	U	6.1	U	140	U	5.4	U	16	U	130	U	6.2	U	150	U	11	U
CDEMDMW20164.50VOC	MW20	163.0-168.0	164.5	164.6	164.55	mudstone	bet	hf	13	U	7.4	U	170	U	6.6	U	19	U	160	U	7.5	U	180	U	14	U
CDEMDMW20166.70VOC	MW20	163.0-168.0	166.7	166.8	166.75	mudstone	bf	hf	14	U	8	U	190	U	7.1	U	21	U	170	U	8.2	U	190	U	15	U
CDEMDMW20168.80VOC	MW20	168.0-173.0	168.8	168.9	168.85	mudstone	bf	hf	12	U	7.1	U	170	U	6.3	U	18	U	150	U	7.2	U	170	U	13	U
CDEMDMW20170.40VOC	MW20	168.0-173.0	170.4	170.5	170.45	mudstone	bet	hf	14	U	8	U	190	U	7.1	U	21	U	170	U	8.1	U	190	U	15	U
CDEMDMW20171.90VOC	MW20	168.0-173.0	171.9	172	171.95	mudstone	bf	hf	13	U	7.4	U	170	U	6.6	U	19	U	160	U	7.5	U	180	U	67	
CDEMDMW20174.00VOC	MW20	173.0-178.0	174	174.1	174.05	mudstone	bf	hf	29	U	25	U	300	U	24	U	31	U	300	U	25	U	300	U	400	
CDEMDMW20176.00VOC	MW20	173.0-178.0	176	176.1	176.05	mudstone	bf	hf	21	U	19	U	230	U	18	U	23	U	220	U	19	U	230	U	110	
CDEMDMW20178.40VOC	MW20	178.0-183.0	178.4	178.5	178.45	mudstone	bf	hf	31	U	27	U	330	U	26	U	34	U	330	U	28	U	330	U	230	
CDEMDMW20180.70VOC	MW20	178.0-183.0	180.7	180.8	180.75	mudstone	bf	hf	17	U	15	U	180	U	15	U	19	U	180	U	15	U	190	U	150	
CDEMDMW20182.40VOC	MW20	178.0-183.0	182.4	182.5	182.45	mudstone	tf	ang	29	U	25	U	300	U	24	U	31	U	300	U	25	U	300	U	93	
CDEMDMW20184.65VOC	MW20	183.0-188.0	184.55	184.65	184.60	mudstone	bf	hf	17	U	15	U	180	U	15	U	18	U	180	U	15	U	180	U	170	
CDEMDMW20187.60VOC	MW20	183.0-188.0	187.5	187.6	187.55	mudstone	tf	hf	25	U	22	U	260	U	21	U	27	U	260	U	22	U	260	U	170	
~~CDEMDMW20188.70VOC~~	~~MW20~~	~~188.0-193.0~~	~~188.7~~	~~188.8~~	~~188.75~~	~~mudstone~~	~~bet~~	~~hf~~	~~34~~	~~U~~	~~30~~	~~U~~	~~360~~	~~U~~	~~29~~	~~U~~	~~36~~	~~U~~	~~350~~	~~U~~	~~30~~	~~U~~	~~360~~	~~U~~	~~130~~	
CDEMDMW20190.60VOC	MW20	188.0-193.0	190.6	190.7	190.65	mudstone	bet	hf	18	U	16	U	190	U	15	U	20	U	190	U	16	U	190	U	69	
CDEMDMW20192.30VOC	MW20	188.0-193.0	192.3	192.4	192.35	mudstone	f3	na	29	U	25	U	300	U	24	U	31	U	300	U	25	U	300	U	160	
CDEMDMW20194.80VOC	MW20	193.0-198.0	194.8	194.9	194.85	mudstone	bf	hf	23	U	20	U	240	U	19	U	24	U	240	U	20	U	240	U	74	
CDEMDMW20197.10VOC	MW20	193.0-198.0	197.1	197.2	197.15	mudstone	bf	hf	14	U	7.5	U	210	U	6.6	U	23	U	180	U	7.6	U	210	U	20	
CDEMDMW20198.85VOC	MW20	198.0-203.0	198.85	198.95	198.90	mudstone	bf	hf	15	U	8.2	U	230	U	7.2	U	26	U	200	U	8.4	U	230	U	86	
CDEMDMW20200.50VOC	MW20	198.0-203.0	200.5	200.6	200.55	mudstone	bf	hf	17	U	9	U	250	U	7.9	U	28	U	220	U	9.1	U	260	U	73	
CDEMDMW20202.15VOC	MW20	198.0-203.0	202.15	202.25	202.20	mudstone	bf	hf	9.8	U	5.3	U	150	U	4.7	U	17	U	130	U	5.4	U	150	U	78	
CDEMDMW20204.90VOC	MW20	203.0-208.0	204.9	205	204.95	mudstone	bf	hf	18	U	9.7	U	270	U	8.5	U	30	U	240	U	9.9	U	280	U	81	
CDEMDMW20206.50VOC	MW20	203.0-208.0	206.5	206.6	206.55	mudstone	bf	ang	14	U	7.5	U	210	U	6.6	U	23	U	180	U	7.6	U	210	U	180	
CDEMDMW20209.30VOC	MW20	208.0-213.0	209.3	209.4	209.35	mudstone	bet	hf	15	U	8.2	U	230	U	7.2	U	26	U	200	U	8.4	U	230	U	82	
CDEMDMW20210.55VOC	MW20	208.0-213.0	210.55	210.65	210.60	mudstone	tf	hf	17	U	9	U	250	U	7.9	U	28	U	220	U	9.1	U	260	U	93	
CDEMDMW20211.80VOC	MW20	208.0-213.0	211.8	211.9	211.85	mudstone	tf	hf	12	U	6.6	U	180	U	5.8	U	21	U	160	U	6.8	U	190	U	17	
CDEMDMW20214.55VOC	MW20	213.0-218.0	214.55	214.65	214.60	mudstone	bf	hf	10	U	5.6	U	150	U	4.9	U	18	U	140	U	5.7	U	160	U	26	
CDEMDMW20217.20VOC	MW20	213.0-218.0	217.2	217.3	217.25	mudstone	bf	hf	18	U	16	U	190	U	15	U	19	U	180	U	16	U	190	U	24	
CDEMDMW20219.70VOC	MW20	218.0-223.0	219.7	219.8	219.75	mudstone	bf	hf	19	U	17	U	200	U	17	U	21	U	200	U	17	U	200	U	36	
CDEMDMW20221.55VOC	MW20	218.0-223.0	221.55	221.65	221.60	mudstone	bf	hf	20	U	18	U	210	U	17	U	21	U	210	U	18	U	210	U	99	
CDEMDMW20222.30VOC	MW20	218.0-223.0	222.3	222.4	222.35	mudstone	bf	ang	29	U	25	U	300	U	25	U	30	U	300	U	25	U	300	U	70	
CDEMDMW20224.80VOC	MW20	223.0-228.0	224.8	224.9	224.85	mudstone	bf	hf	24	U	21	U	250	U	20	U	25	U	250	U	21	U	250	U	230	
CDEMDMW20227.30VOC	MW20	223.0-228.0	227.3	227.4	227.35	mudstone	bf	hf	26	U	23	U	280	U	22	U	28	U	270	U	23	U	280	U	140	
CDEMDMW20228.80VOC	MW20	228.0-233.0	228.8	228.9	228.85	mudstone	tf	hf	17	U	15	U	180	U	15	U	18	U	180	U	15	U	180	U	130	
CDEMDMW20230.10VOC	MW20	228.0-233.0	230.1	230.2	230.15	mudstone	tf	hf	29	U	25	U	300	U	25	U	30	U	300	U	25	U	300	U	160	
CDEMDMW20231.40VOC	MW20	228.0-233.0	231.4	231.5	231.45	mudstone	tf	hf	23	U	21	U	240	U	20	U	25	U	240	U	21	U	240	U	170	
CDEMDMW20234.00VOC	MW20	233.0-238.0	234	234.1	234.05	mudstone	bet	hf	20	U	18	U	210	U	17	U	21	U	210	U	18	U	210	U	310	
CDEMDMW20235.40VOC	MW20	233.0-238.0	235.4	235.5	235.45	mudstone	bet	hf	22	U	20	U	230	U	19	U	24	U	230	U	20	U	230	U	290	
CDEMDMW20239.20VOC	MW20	238.0-243.0	239.1	239.2	239.15	mudstone	tf	hf	14	U	8.8	U	180	U	7.9	U	20	U	170	U	8.9	U	190	U	19	

R2-0016760

Table A2: VOC Concentrations in Rock Core Samples - ug/L Pore Water, Revised 4/16/2010

	Field Sample Information (2)					Comments/Interpretation (3)			Estimated Pore Water Concentration (ug/L) (5)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW20241.00VOC	MW20	238.0-243.0	240.9	241	240.95	mudstone	bf	hf	15	U	9.4	U	190	U	8.5	U	21	U	180	U	9.6	U	200	U	16	U
CDEMDMW20242.20VOC	MW20	238.0-243.0	242.1	242.2	242.15	mudstone	bf	hf	14	U	8.6	U	180	U	7.7	U	19	U	160	U	8.7	U	180	U	160	
CDEMDMW20244.60VOC	MW20	243.0-248.0	244.6	244.7	244.65	mudstone	bf	vf	13	U	8	U	170	U	7.2	U	18	U	150	U	8.1	U	170	U	430	
CDEMDMW20247.10VOC	MW20	243.0-248.0	247.1	247.2	247.15	mudstone	bf	hf	17	U	11	U	220	U	9.7	U	24	U	210	U	11	U	230	U	18	U
CDEMDMW20248.90VOC	MW20	248.0-253.0	248.9	249	248.95	mudstone	bf	hf	24	U	15	U	320	U	14	U	34	U	300	U	16	U	320	U	26	U
CDEMDMW20250.10VOC	MW20	248.0-253.0	250.1	250.2	250.15	mudstone	bf	hf	24	U	15	U	320	U	14	U	34	U	300	U	16	U	320	U	26	U
CDEMDMW20252.00VOC	MW20	248.0-253.0	252	252.1	252.05	mudstone	bf	hf	11	U	6.7	U	140	U	6	U	15	U	130	U	6.8	U	140	U	11	U
CDEMDMW20253.30VOC	MW20	253.0-258.0	253.3	253.4	253.35	mudstone	bet	hf	21	U	13	U	270	U	12	U	29	U	250	U	13	U	280	U	22	U
CDEMDMW20254.40VOC	MW20	253.0-258.0	254.4	254.6	254.50	mudstone	tf	ang	19	U	12	U	250	U	11	U	27	U	230	U	12	U	250	U	21	U
CDEMDMW20255.60VOC	MW20	253.0-258.0	255.6	255.7	255.65	mudstone	bf	hf	17	U	15	U	180	U	14	U	18	U	170	U	15	U	180	U	260	
CDEMDMW20257.00VOC	MW20	253.0-258.0	257	257.1	257.05	mudstone	bf	hf	19	U	17	U	200	U	16	U	20	U	190	U	17	U	200	U	220	
CDEMDMW20260.10VOC	MW20	258.0-263.0	260.1	260.2	260.15	mudstone	bf	hf	23	U	21	U	250	U	20	U	25	U	240	U	21	U	250	U	320	
CDEMDMW20261.90VOC	MW20	258.0-263.0	261.9	262	261.95	mudstone	bf	hf	18	U	16	U	190	U	15	U	19	U	180	U	16	U	190	U	200	
CDEMDMW20263.60VOC	MW20	263.0-268.0	263.6	263.7	263.65	mudstone	bf	hf	28	U	25	U	290	U	24	U	29	U	290	U	25	U	290	U	370	
CDEMDMW20265.20VOC	MW20	263.0-268.0	265.2	265.3	265.25	mudstone	bf	hf	20	U	18	U	210	U	18	U	22	U	210	U	18	U	210	U	370	
CDEMDMW20266.20VOC	MW20	263.0-268.0	266.2	266.3	266.25	mudstone	bf	hf	20	U	18	U	210	U	17	U	21	U	200	U	18	U	210	U	340	
CDEMDMW20268.70VOC	MW20	268.0-273.0	268.7	268.9	268.80	mudstone	bf	hf	23	U	21	U	250	U	20	U	25	U	240	U	21	U	250	U	370	
CDEMDMW20270.40VOC	MW20	268.0-273.0	270.4	270.5	270.45	mudstone	bet	hf	23	U	21	U	250	U	20	U	25	U	240	U	21	U	250	U	390	
CDEMDMW20272.00VOC	MW20	268.0-273.0	272	272.1	272.05	mudstone	bf	hf	20	U	18	U	210	U	17	U	21	U	200	U	18	U	210	U	300	
CDEMDMW20273.60VOC	MW20	273.0-278.0	273.6	273.7	273.65	mudstone	bet	hf	18	U	16	U	190	U	15	U	19	U	180	U	16	U	190	U	450	
~~CDEMDMW20276.60VOC~~	~~MW20~~	~~273.0-278.0~~	~~276.6~~	~~276.7~~	~~276.65~~	~~mudstone~~	~~bf~~	~~hf~~	~~18~~	~~U~~	~~16~~	~~U~~	~~190~~	~~U~~	~~16~~	~~U~~	~~20~~	~~U~~	~~190~~	~~U~~	~~16~~	~~U~~	~~190~~	~~U~~	~~770~~	
CDEMDMW20279.20VOC	MW20	278.0-283.0	279.2	279.3	279.25	mudstone	bf	hf	32	U	27	U	340	U	26	U	35	U	340	U	27	U	340	U	800	
CDEMDMW20281.50VOC	MW20	278.0-283.0	281.5	281.6	281.55	mudstone	bf	hf	25	U	22	U	270	U	21	U	28	U	270	U	22	U	270	U	680	
CDEMDMW20282.70VOC	MW20	278.0-283.0	282.7	282.8	282.75	mudstone	bet	hf	29	U	25	U	310	U	24	U	32	U	310	U	25	U	310	U	950	
CDEMDMW20284.40VOC	MW20	283.0-288.0	284.4	284.5	284.45	mudstone	bf	hf	28	U	24	U	300	U	23	U	30	U	290	U	24	U	300	U	650	
CDEMDMW20285.60VOC	MW20	283.0-288.0	285.6	285.7	285.65	mudstone	bf	hf	25	U	22	U	270	U	21	U	28	U	270	U	22	U	270	U	980	
CDEMDMW20288.30VOC	MW20	288.0-293.0	288.3	288.4	288.35	mudstone	bf	hf	22	U	19	U	240	U	18	U	24	U	230	U	19	U	240	U	680	
CDEMDMW20290.40VOC	MW20	288.0-293.0	290.4	290.5	290.45	mudstone	bet	hf/ang	29	U	25	U	310	U	24	U	32	U	310	U	25	U	310	U	950	
CDEMDMW20291.80VOC	MW20	288.0-293.0	291.8	291.9	291.85	mudstone	bf	hf	27	U	23	U	290	U	22	U	29	U	280	U	23	U	290	U	530	
CDEMDMW20295.50VOC	MW20	293.0-298.0	295.5	295.6	295.55	mudstone	bet	hf/ang	29	U	25	U	310	U	24	U	32	U	310	U	25	U	310	U	1100	
CDEMDMW20297.60VOC	MW20	293.0-298.0	297.6	297.7	297.65	mudstone	bet	hf	32	U	27	U	340	U	26	U	35	U	340	U	27	U	340	U	830	
CDEMDMW20298.10VOC	MW20	298.0-303.0	298.1	298.2	298.15	mudstone	bet	hf	18	U	11	U	230	U	10	U	25	U	210	U	12	U	230	U	590	
CDEMDMW20301.30VOC	MW20	298.0-303.0	301.3	301.4	301.35	mudstone	bkn	vf	16	U	10	U	210	U	9.2	U	22	U	190	U	16	U	210	U	460	
CDEMDMW20303.20VOC	MW20	303.0-308.0	303.2	303.3	303.25	mudstone	bf	hf	24	U	16	U	310	U	14	U	33	U	290	U	16	U	320	U	430	
CDEMDMW20305.20VOC	MW20	303.0-308.0	305.2	305.3	305.25	mudstone	bf	hf	24	U	16	U	310	U	14	U	33	U	290	U	16	U	320	U	1000	
CDEMDMW20306.50VOC	MW20	303.0-308.0	306.5	306.6	306.55	mudstone	bkn	vf	22	U	14	U	290	U	13	U	31	U	270	U	14	U	290	U	560	
CDEMDMW20310.60VOC	MW20	308.0-313.0	310.6	310.8	310.70	mudstone	bf	hf	24	U	16	U	310	U	14	U	33	U	290	U	16	U	320	U	350	
CDEMDMW20311.70VOC	MW20	308.0-313.0	311.7	311.8	311.75	mudstone	bf	ang	18	U	12	U	230	U	11	U	25	U	220	U	12	U	240	U	520	
CDEMDMW20314.20VOC	MW20	313.0-318.0	314.2	314.3	314.25	mudstone	bf	hf	20	U	13	U	260	U	12	U	28	U	240	U	13	U	270	U	410	
CDEMDMW20315.60VOC	MW20	313.0-318.0	315.6	315.7	315.65	mudstone	bf	hf	17	U	11	U	220	U	9.8	U	23	U	200	U	11	U	220	U	390	
CDEMDMW20317.30VOC	MW20	313.0-318.0	317.3	317.4	317.35	mudstone	bf	hf	25	U	22	U	270	U	21	U	28	U	270	U	22	U	280	U	510	
CDEMDMW20319.30VOC	MW20	318.0-323.0	319.3	319.4	319.35	mudstone	bf	hf	50	U	42	U	530	U	40	U	54	U	520	U	42	U	540	U	840	
CDEMDMW20320.80VOC	MW20	318.0-323.0	320.8	320.9	320.85	mudstone	bf	hf	36	U	31	U	390	U	30	U	40	U	380	U	31	U	390	U	610	
CDEMDMW20323.70VOC	MW20	323.0-328.0	323.7	323.8	323.75	mudstone	bf	hf	33	U	28	U	360	U	27	U	36	U	350	U	28	U	360	U	710	
CDEMDMW20325.80VOC	MW20	323.0-328.0	325.8	325.9	325.85	mudstone	bf	hf	32	U	28	U	350	U	26	U	36	U	340	U	28	U	350	U	680	
CDEMDMW20327.20VOC	MW20	323.0-328.0	327.2	327.3	327.25	mudstone	bf	hf	29	U	25	U	320	U	24	U	32	U	310	U	25	U	320	U	260	

R2-0016761

Table A2: VOC Concentrations in Rock Core Samples - ug/L Pore Water, Revised 4/16/2010

	Field Sample Information (2)					Comments/Interpretation (3)			Estimated Pore Water Concentration (ug/L) (5)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW20329.00VOC	MW20	328.0-333.0	329	329.1	329.05	mudstone	bf	hf	29	U	24	U	310	U	23	U	32	U	300	U	25	U	310	U	370	
CDEMDMW20331.90VOC	MW20	328.0-333.0	331.9	332	331.95	mudstone	bf	hf	29	U	25	U	320	U	24	U	32	U	310	U	25	U	320	U	570	
CDEMDMW20334.00VOC	MW20	333.0-338.0	334	334.1	334.05	mudstone	bf	hf	28	U	24	U	300	U	23	U	31	U	300	U	24	U	300	U	220	
CDEMDMW20335.60VOC	MW20	333.0-338.0	335.6	335.7	335.65	mudstone	bf	hf	28	U	24	U	300	U	23	U	31	U	300	U	21	U	300	U	510	
CDEMDMW20337.10VOC	MW20	333.0-338.0	337.1	337.2	337.15	mudstone	bf	hf	24	U	21	U	260	U	20	U	27	U	260	U	21	U	260	U	32	
CDEMDMW20339.60VOC	MW20	338.0-343.0	339.6	339.7	339.65	mudstone	bf	hf	36	U	31	U	390	U	30	U	40	U	380	U	31	U	390	U	410	
CDEMDMW20341.20VOC	MW20	338.0-343.0	341.2	341.3	341.25	mudstone	bf	hf	33	U	28	U	360	U	27	U	36	U	350	U	28	U	360	U	470	
CDEMDMW20344.20VOC	MW20	343.0-348.0	344.2	344.3	344.25	mudstone	bf	hf	40	U	34	U	430	U	32	U	87		420	U	34	U	430	U	370	
CDEMDMW20345.70VOC	MW20	343.0-348.0	345.7	345.8	345.75	mudstone	bet	hf	36	U	31	U	390	U	30	U	40	U	380	U	31	U	390	U	710	
CDEMDMW20347.50VOC	MW20	343.0-348.0	347.5	347.6	347.55	mudstone	bf	hf	29	U	25	U	310	U	24	U	32	U	310	U	25	U	310	U	290	
CDEMDMW20349.30VOC	MW20	348.0-353.0	349.3	349.5	349.40	mudstone	bf	hf	31	U	26	U	330	U	25	U	34	U	330	U	27	U	340	U	81	
CDEMDMW20351.30VOC	MW20	348.0-353.0	351.3	351.4	351.35	mudstone	bf	hf	14	U	8.4	U	180	U	7.5	U	20	U	170	U	8.5	U	190	U	120	
CDEMDMW20354.00VOC	MW20	353.0-358.0	354	354.1	354.05	mudstone	bf	hf	11	U	6.7	U	140	U	6	U	16	U	130	U	6.8	U	150	U	130	
CDEMDMW20355.30VOC	MW20	353.0-358.0	355.3	355.4	355.35	mudstone	bet	hf	12	U	7.7	U	170	U	6.9	U	18	U	150	U	7.8	U	170	U	150	
CDEMDMW20357.00VOC	MW20	353.0-358.0	357	357.1	357.05	mudstone	bf	hf	10	U	6.3	U	140	U	5.6	U	15	U	130	U	6.4	U	140	U	11	J
CDEMDMW20359.50VOC	MW20	358.0-363.0	359.5	359.6	359.55	mudstone	bf	hf	9.1	U	5.6	U	120	U	5	U	21		110	U	5.6	U	120	U	150	
CDEMDMW20361.00VOC	MW20	358.0-363.0	361	361.1	361.05	mudstone	bet	hf	12	U	7.7	U	170	U	6.9	U	18	U	150	U	7.8	U	170	U	130	
CDEMDMW20362.40VOC	MW20	358.0-363.0	362.4	362.5	362.45	mudstone	bf	hf	13	U	7.8	U	170	U	7	U	19	U	160	U	8	U	170	U	14	U
CDEMDMW20364.00VOC	MW20	363.0-368.0	364	364.1	364.05	mudstone	bet	hf	13	U	8.2	U	180	U	7.3	U	19	U	170	U	8.3	U	180	U	390	
CDEMDMW20366.00VOC	MW20	363.0-368.0	366	366.1	366.05	mudstone	bf	hf	11	U	6.7	U	140	U	6	U	16	U	130	U	6.8	U	150	U	110	
~~CDEMDMW20369.00VOC~~	~~MW20~~	~~368.0-373.0~~	~~369~~	~~369.1~~	~~369.05~~	~~mudstone~~	~~bf~~	~~hf~~	~~15~~	~~U~~	~~9~~	~~U~~	~~200~~	~~U~~	~~8.1~~	~~U~~	~~37~~		~~180~~	~~U~~	~~9.2~~	~~U~~	~~200~~	~~U~~	~~68~~	
CDEMDMW20370.50VOC	MW20	368.0-373.0	370.5	370.6	370.55	mudstone	bf	hf	13	U	7.8	U	170	U	7	U	19	U	160	U	8	U	170	U	84	
CDEMDMW20371.80VOC	MW20	368.0-373.0	371.8	371.9	371.85	mudstone	bf	hf	16	U	10	U	220	U	9	U	24	U	200	U	10	U	220	U	72	
CDEMDMW20373.50VOC	MW20	373.0-378.0	373.5	373.6	373.55	mudstone	bf	hf	11	U	6.5	U	140	U	5.8	U	15	U	130	U	6.6	U	140	U	55	
CDEMDMW20376.10VOC	MW20	373.0-378.0	376.1	376.2	376.15	mudstone	bf	hf	13	U	7.9	U	170	U	7.1	U	19	U	160	U	8	U	180	U	160	
CDEMDMW20379.00VOC	MW20	378.0-383.0	379	379.1	379.05	mudstone	bf	hf	18	U	12	U	220	U	10	U	24	U	210	U	12	U	230	U	100	
CDEMDMW20380.50VOC	MW20	378.0-383.0	380.5	380.6	380.55	mudstone	bf	hf	23	U	15	U	290	U	13	U	31	U	270	U	15	U	290	U	240	
CDEMDMW20381.50VOC	MW20	378.0-383.0	381.5	381.6	381.55	mudstone	bf	hf	20	U	13	U	250	U	12	U	27	U	240	U	13	U	260	U	19	J
CDEMDMW20384.30VOC	MW20	383.0-388.0	384.3	384.5	384.40	mudstone	bf	hf	17	U	11	U	220	U	10	U	23	U	210	U	11	U	220	U	190	
CDEMDMW20387.10VOC	MW20	383.0-388.0	387.1	387.2	387.15	mudstone	bf	hf	19	U	12	U	240	U	11	U	26	U	230	U	13	U	250	U	21	
CDEMDMW20389.50VOC	MW20	388.0-393.0	389.5	389.6	389.55	mudstone	bf	hf	11	U	7.4	U	140	U	6.7	U	15	U	130	U	7.5	U	150	U	6.6	J
CDEMDMW20391.70VOC	MW20	388.0-393.0	391.7	391.8	391.75	mudstone	bf	hf	17	U	11	U	220	U	10	U	23	U	210	U	11	U	220	U	18	U
CDEMDMW20392.60VOC	MW20	388.0-393.0	392.6	392.7	392.65	mudstone	bf	hf	20	U	13	U	260	U	12	U	27	U	240	U	13	U	260	U	29	
CDEMDMW20394.40VOC	MW20	393.0-398.0	394.4	394.5	394.45	mudstone	bet	hf	16	U	11	U	210	U	9.7	U	22	U	200	U	11	U	210	U	75	
CDEMDMW20396.40VOC	MW20	393.0-398.0	396.4	396.5	396.45	mudstone	bf	hf	27	U	17	U	340	U	16	U	36	U	320	U	18	U	350	U	210	
CDEMDMW20399.10VOC	MW20	398.0-403.0	399.1	399.2	399.15	mudstone	bet	hf	32	U	28	U	340	U	27	U	35	U	340	U	28	U	350	U	33	U
CDEMDMW20400.70VOC	MW20	398.0-403.0	400.6	400.7	400.65	mudstone	bf	hf	28	U	25	U	300	U	24	U	31	U	300	U	25	U	300	U	78	
CDEMDMW20402.30VOC	MW20	398.0-403.0	402.3	402.4	402.35	mudstone	bf	ang	27	U	24	U	290	U	23	U	32	U	290	U	24	U	290	U	54	
CDEMDMW20403.70VOC	MW20	403.0-408.0	403.7	403.8	403.75	mudstone	bet	hf	29	U	25	U	310	U	24	U	32	U	310	U	25	U	310	U	51	
CDEMDMW20406.80VOC	MW20	403.0-408.0	406.8	406.9	406.85	mudstone	bf	hf	26	U	23	U	280	U	22	U	28	U	270	U	23	U	280	U	66	
CDEMDMW20409.50VOC	MW20	408.0-413.0	409.5	409.6	409.55	mudstone	bf	hf	24	U	21	U	260	U	20	U	26	U	250	U	21	U	260	U	57	
CDEMDMW20411.10VOC	MW20	408.0-413.0	411.1	411.2	411.15	mudstone	bf	hf	32	U	28	U	340	U	27	U	35	U	340	U	28	U	350	U	75	
CDEMDMW20412.40VOC	MW20	408.0-413.0	412.4	412.5	412.45	mudstone	bf	hf	26	U	22	U	280	U	21	U	28	U	270	U	22	U	280	U	54	
CDEMDMW14023.30VOC	MW14	23.0-24.0	23.3	23.5	23.4	mudstone	bet	hf	12	U	11	U	140		11	U	13	U	260000		45		600		31000	
CDEMDMW14024.80VOC	MW14	24.0-29.0	24.8	24.9	24.85	mudstone	bf	hf	10	U	9.6	U	48	J	9.4	U	11	U	120000		14		180		12000	
CDEMDMW14026.40VOC	MW14	24.0-29.0	26.4	26.5	26.45	mudstone	bet	ang	11	U	10	U	28	J	10	U	15		150000		19		490		49000	

R2-0016762

Table A2: VOC Concentrations in Rock Core Samples - ug/L Pore Water, Revised 4/16/2010

	Field Sample Information (2)					Comments/Interpretation (3)			Estimated Pore Water Concentration (ug/L) (5)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW14027.65VOC	MW14	24.0-29.0	27.65	27.8	27.725	mudstone	bf	hf	16	U	15	U	170	U	15	U	17	U	150000		18		350		37000	
CDEMDMW14030.60VOC	MW14	29.0-34.0	30.6	30.8	30.7	mudstone	bet	hf	10	U	9.4	U	110	U	9.2	U	11	U	59000		9.5	U	220		11000	
CDEMDMW14033.00VOC	MW14	29.0-34.0	33	33.1	33.05	mudstone	bf	hf	18	U	16	U	210		16	U	19	U	330000		65		1300		120000	
CDEMDMW14035.70VOC	MW14	34.0-39.0	35.7	35.8	35.75	mudstone	bf	hf	16	U	15	U	170	U	15	U	17	U	97000		16		350		66000	
CDEMDMW14036.90VOC	MW14	34.0-39.0	36.9	37	36.95	mudstone	bf	hf	15	U	14	U	150	U	13	U	15	U	110000		22		320		85000	
CDEMDMW14038.50VOC	MW14	34.0-39.0	38.5	38.6	38.55	mudstone	bf	hf	15	U	13	U	150	U	13	U	15	U	100000		18		310		72000	
CDEMDMW14040.80VOC	MW14	39.0-44.0	40.8	40.9	40.85	mudstone	bf	ang	14	U	13	U	140	U	12	U	14	U	77000		23		230		78000	
CDEMDMW14043.20VOC	MW14	39.0-44.0	43.2	43.3	43.25	mudstone	bet	hf	18	U	16	U	180	U	16	U	19	U	45000		22		110	J	93000	
CDEMDMW14044.40VOC	MW14	44.0-49.0	44.4	44.5	44.45	mudstone	bet	hf	12	U	11	U	120	U	11	U	12	U	64000		44		190		65000	
CDEMDMW14046.50VOC	MW14	44.0-49.0	46.5	46.6	46.55	mudstone	bet	hf	20	U	18	U	210	U	18	U	21	U	17000		18	U	210	U	57000	
CDEMDMW14047.60VOC	MW14	44.0-49.0	47.6	47.7	47.65	mudstone	bet	hf	20	U	18	U	210	U	18	U	21	U	62000		23		110	J	82000	
CDEMDMW14050.65VOC	MW14	49.0-54.0	50.65	50.8	50.725	mudstone	bf	hf	18	U	17	U	190	U	16	U	19	U	5100		17	U	190	U	20000	
CDEMDMW14052.60VOC	MW14	49.0-54.0	52.6	52.7	52.65	mudstone	bf	hf	16	U	14	U	160	U	14	U	16	U	16000		30		160	U	41000	
CDEMDMW14055.00VOC	MW14	54.0-59.0	55	55.1	55.05	mudstone	bf	ang	18	U	16	U	180	U	16	U	19	U	68000		17		190	U	43000	
CDEMDMW14057.00VOC	MW14	54.0-59.0	57	57.1	57.05	mudstone	bf	hf	15	U	14	U	150	U	13	U	16	U	7200		18		150	U	26000	
CDEMDMW14058.20VOC	MW14	54.0-59.0	58.2	58.3	58.25	mudstone	bf	hf	15	U	14	U	160	U	14	U	16	U	120000		52		420		67000	
CDEMDMW14059.80VOC	MW14	59.0-64.0	59.8	60	59.9	mudstone	bet	hf	22	U	20	U	230	U	20	U	23	U	21000		37		230	U	24000	
CDEMDMW14061.50VOC	MW14	59.0-64.0	61.5	61.6	61.55	mudstone	bet	hf	18	U	16	U	190	U	16	U	19	U	15000		34		190	U	15000	
CDEMDMW14064.70VOC	MW14	64.0-69.0	64.7	64.8	64.75	mudstone	bf	hf	14	U	7.8	U	220	U	6.8	U	25	U	1000		7.9	U	220	U	2000	
CDEMDMW14066.50VOC	MW14	64.0-69.0	66.5	66.6	66.55	mudstone	bf	hf	9	U	4.9	U	140	U	4.3	U	15	U	5600		4.9	U	140	U	2900	
~~CDEMDMW14067.80VOC~~	~~MW14~~	~~64.0-69.0~~	~~67.8~~	~~67.9~~	~~67.85~~	~~mudstone~~	~~bet~~	~~hf~~	~~8.3~~	~~U~~	~~4.5~~	~~U~~	~~120~~	~~U~~	~~3.9~~	~~U~~	~~14~~	~~U~~	~~8700~~		~~7.2~~		~~130~~	~~U~~	~~6500~~	
CDEMDMW14074.00VOC	MW14	73.0-78.0	74	74.1	74.05	mudstone	bf	hf	13	U	7.1	U	200	U	6.2	U	23	U	180	U	7.2	U	210	U	15	U
CDEMDMW14075.90VOC	MW14	73.0-78.0	75.9	76	75.95	mudstone	bf	hf	12	U	6.5	U	180	U	5.7	U	21	U	1400		130		190	U	4000	
CDEMDMW14079.20VOC	MW14	78.0-83.0	79.2	79.3	79.25	mudstone	bf	hf	14	U	7.8	U	220	U	6.8	U	25	U	190	U	9.2		220	U	960	
CDEMDMW14080.30VOC	MW14	78.0-83.0	80.3	80.4	80.35	mudstone	bf	hf	13	U	7.1	U	200	U	6.2	U	23	U	180	U	7.2	U	210	U	250	
CDEMDMW14082.50VOC	MW14	78.0-83.0	82.5	82.6	82.55	mudstone	bf	hf	10	U	5.5	U	150	U	4.8	U	18	U	140	U	5.6	U	160	U	570	
CDEMDMW14083.70VOC	MW14	83.0-88.0	83.7	83.8	83.75	mudstone	bf	hf	10	U	5.5	U	150	U	4.8	U	18	U	140	U	5.6	U	160	U	57	
CDEMDMW14085.80VOC	MW14	83.0-88.0	85.8	85.9	85.85	mudstone	bf	hf	11	U	6.2	U	150	U	5.5	U	17	U	140	U	9.1		160	U	190	
CDEMDMW14089.00VOC	MW14	88.0-93.0	89	89.1	89.05	mudstone	bet	hf	14	U	7.9	U	190	U	7	U	22	U	180	U	8	U	200	U	280	
CDEMDMW14090.50VOC	MW14	88.0-93.0	90.5	90.6	90.55	mudstone	bf	hf	13	U	7.6	U	190	U	6.7	U	21	U	170	U	7.7	U	190	U	15	U
CDEMDMW14091.80VOC	MW14	88.0-93.0	91.8	91.9	91.85	mudstone	bf	hf	10	U	5.8	U	140	U	5.2	U	16	U	130	U	5.9	U	150	U	11	U
CDEMDMW14094.80VOC	MW14	93.0-98.0	94.8	94.9	94.85	mudstone	bf	hf	14	U	7.9	U	200	U	7	U	22	U	180	U	8.1	U	200	U	12	J
CDEMDMW14096.70VOC	MW14	93.0-98.0	96.7	96.8	96.75	mudstone	bf	hf	12	U	7.1	U	180	U	6.3	U	20	U	160	U	8.2		180	U	57	
CDEMDMW14099.00VOC	MW14	98.0-103.0	99	99.1	99.05	mudstone	bf	hf	13	U	7.7	U	190	U	6.8	U	21	U	170	U	7.8	U	200	U	15	U
CDEMDMW14101.00VOC	MW14	98.0-103.0	101	101.1	101.05	mudstone	bet	hf	11	U	6.2	U	150	U	5.4	U	17	U	140	U	6.3	U	160	U	12	U
CDEMDMW14104.10VOC	MW14	103.0-108.0	104.1	104.4	104.25	mudstone	bf	hf	9.1	U	5.2	U	130	U	4.6	U	15	U	120	U	5.3	U	130	U	10	U
CDEMDMW14105.60VOC	MW14	103.0-108.0	105.6	105.9	105.75	mudstone	bf	hf	14	U	8.1	U	200	U	7.2	U	23	U	180	U	8.2	U	210	U	16	U
CDEMDMW14106.60VOC	MW14	103.0-108.0	106.6	106.8	106.7	mudstone	f12	na	10	U	5.7	U	140	U	5	U	16	U	130	U	5.8	U	150	U	11	U
CDEMDMW14108.80VOC	MW14	108.0-113.0	108.8	108.9	108.85	mudstone	bf	hf	17	U	9.8	U	250	U	8.7	U	28	U	220	U	10		250	U	83	
CDEMDMW14111.50VOC	MW14	108.0-113.0	111.5	111.6	111.55	mudstone	bf	hf	13	U	7.4	U	190	U	6.5	U	21	U	170	U	7.5	U	190	U	14	U
CDEMDMW14114.20VOC	MW14	113.0-118.0	114.2	114.3	114.25	mudstone	bf	hf	13	U	7.2	U	180	U	6.4	U	20	U	160	U	8.1		190	U	160	
CDEMDMW14115.70VOC	MW14	113.0-118.0	115.7	115.8	115.75	mudstone	f15	na	13	U	7.4	U	190	U	6.5	U	21	U	170	U	7.5	U	190	U	76	
CDEMDMW14117.60VOC	MW14	113.0-118.0	117.6	117.7	117.65	mudstone	bf	hf	8	U	4.5	U	110	U	4	U	13	U	100	U	4.6	U	120	U	8.1	J
CDEMDMW14118.50VOC	MW14	118.0-123.0	118.5	118.6	118.55	mudstone	bf	hf	17	U	9.8	U	250	U	8.7	U	28	U	220	U	10	U	250	U	64	
CDEMDMW14120.50VOC	MW14	118.0-123.0	120.5	120.6	120.55	mudstone	bet	hf	14	U	8	U	200	U	7.1	U	23	U	180	U	8.2	U	210	U	36	
CDEMDMW14122.40VOC	MW14	118.0-123.0	122.4	122.5	122.45	mudstone	bf	ang	33	U	28	U	350	U	26	U	36	U	350	U	28	U	350	U	150	

R2-0016763

Table A2: VOC Concentrations in Rock Core Samples - ug/L Pore Water, Revised 4/16/2010

	Field Sample Information (2)					Comments/Interpretation (3)			Estimated Pore Water Concentration (ug/L) (5)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW14124.80VOC	MW14	123.0-128.0	124.8	124.9	124.85	mudstone	bf	hf	37	U	31	U	400	U	30	U	40	U	390	U	31	U	400	U	38	U
CDEMDMW14127.30VOC	MW14	123.0-128.0	127.3	127.4	127.35	mudstone	bet	hf	37	U	31	U	400	U	30	U	40	U	390	U	31	U	400	U	38	U
CDEMDMW14128.50VOC	MW14	128.0-133.0	128.5	128.6	128.55	mudstone	bf	hf	33	U	28	U	360	U	27	U	37	U	350	U	28	U	360	U	61	
CDEMDMW14129.50VOC	MW14	128.0-133.0	129.5	129.6	129.55	mudstone	bf	hf	37	U	31	U	400	U	30	U	40	U	390	U	31	U	400	U	75	
CDEMDMW14131.90VOC	MW14	128.0-133.0	131.9	132	131.95	mudstone	bf	hf	22	U	19	U	240	U	18	U	25	U	240	U	19	U	240	U	68	
CDEMDMW14134.00VOC	MW14	133.0-138.0	134	134.1	134.05	mudstone	bf	hf	37	U	31	U	400	U	30	U	40	U	390	U	31	U	400	U	38	U
CDEMDMW14135.30VOC	MW14	133.0-138.0	135.3	135.4	135.35	mudstone	bf	hf	25	U	22	U	270	U	21	U	28	U	270	U	22	U	270	U	55	
CDEMDMW14136.90VOC	MW14	133.0-138.0	136.9	137	136.95	mudstone	bf	hf	37	U	31	U	400	U	30	U	40	U	390	U	31	U	400	U	130	
CDEMDMW14138.80VOC	MW14	138.0-143.0	138.8	138.9	138.85	mudstone	bf	hf	33	U	28	U	360	U	27	U	37	U	350	U	28	U	360	U	65	
CDEMDMW14141.80VOC	MW14	138.0-143.0	141.8	141.9	141.85	mudstone	bet	hf	16	U	10	U	190	U	9.5	U	21	U	180	U	11	U	200	U	51	
CDEMDMW14143.40VOC	MW14	143.0-148.0	143.4	143.5	143.45	mudstone	bf	hf	17	U	12	U	220	U	11	U	23	U	210	U	12	U	220	U	19	U
CDEMDMW14145.50VOC	MW14	143.0-148.0	145.5	145.6	145.55	mudstone	bet	hf	14	U	9.3	U	170	U	8.4	U	18	U	160	U	9.4	U	170	U	30	
CDEMDMW14146.70VOC	MW14	143.0-148.0	146.7	146.8	146.75	mudstone	bf	hf	14	U	9.2	U	170	U	8.3	U	18	U	160	U	9.3	U	170	U	52	
CDEMDMW14150.10VOC	MW14	148.0-153.0	150.1	150.2	150.15	mudstone	bf	hf	19	U	13	U	240	U	12	U	25	U	220	U	13	U	240	U	20	U
CDEMDMW14152.80VOC	MW14	148.0-153.0	152.8	152.9	152.85	mudstone	bf	hf	10	U	7	U	130	U	6.4	U	14	U	120	U	7.1	U	130	U	37	
CDEMDMW14154.00VOC	MW14	153.0-158.0	154	154.1	154.05	mudstone	bf	hf	13	U	8.4	U	160	U	7.7	U	17	U	150	U	8.5	U	160	U	13	U
CDEMDMW14155.00VOC	MW14	153.0-158.0	155	155.1	155.05	mudstone	bf	hf	14	U	9.7	U	180	U	8.8	U	19	U	170	U	9.8	U	180	U	15	U
CDEMDMW14157.70VOC	MW14	153.0-158.0	157.7	157.8	157.75	mudstone	bf	hf	13	U	8.5	U	160	U	7.8	U	17	U	150	U	8.6	U	160	U	15	
CDEMDMW14159.20VOC	MW14	158.0-163.0	159.2	159.3	159.25	mudstone	bf	hf	16	U	11	U	200	U	9.7	U	21	U	190	U	11	U	200	U	17	U
CDEMDMW14161.10VOC	MW14	158.0-163.0	161.1	161.2	161.15	mudstone	bf	hf	19	U	13	U	240	U	12	U	25	U	220	U	13	U	240	U	20	U
~~CDEMDMW14164.30VOC~~	~~MW14~~	~~163.0-168.0~~	~~164.3~~	~~164.4~~	~~164.35~~	~~mudstone~~	~~bf~~	~~hf~~	~~21~~	~~U~~	~~13~~	~~U~~	~~280~~	~~U~~	~~12~~	~~U~~	~~27~~	~~J~~	~~260~~	~~U~~	~~13~~	~~U~~	~~290~~	~~U~~	~~23~~	~~U~~
CDEMDMW14165.50VOC	MW14	163.0-168.0	165.5	165.6	165.55	mudstone	bet	hf	19	U	12	U	250	U	11	U	27	U	240	U	12	U	260	U	50	
CDEMDMW14167.00VOC	MW14	163.0-168.0	167	167.1	167.05	mudstone	bf	hf	17	U	11	U	220	U	9.5	U	24	U	210	U	11	U	230	U	18	U
CDEMDMW14168.90VOC	MW14	168.0-173.0	168.9	169	168.95	mudstone	bf	hf	19	U	12	U	250	U	11	U	27	U	230	U	7.4	J	250	U	110	
CDEMDMW14170.70VOC	MW14	168.0-173.0	170.7	170.8	170.75	mudstone	bf	hf	16	U	10	U	220	U	9.1	U	23	U	200	U	10	U	220	U	25	
CDEMDMW14174.50VOC	MW14	173.0-178.0	174.5	174.6	174.55	mudstone	bf	hf	21	U	13	U	280	U	12	U	30	U	260	U	10	U	290	U	110	
CDEMDMW14175.50VOC	MW14	173.0-178.0	175.5	175.6	175.55	mudstone	bf	hf	13	U	8.4	U	180	U	7.5	U	19	U	170	U	8.5	U	180	U	52	
CDEMDMW14177.40VOC	MW14	173.0-178.0	177.4	177.5	177.45	mudstone	bf	hf	21	U	13	U	280	U	12	U	30	U	260	U	13	U	290	U	66	
CDEMDMW14180.20VOC	MW14	178.0-183.0	180.2	180.4	180.3	mudstone	bf	hf	21	U	13	U	280	U	12	U	30	U	260	U	13	U	290	U	23	U
CDEMDMW14181.80VOC	MW14	178.0-183.0	181.8	182.4	182.1	mudstone	bf	hf	17	U	10	U	230	U	8.9	U	25	U	210	U	10	U	230	U	40	
CDEMDMW14184.10VOC	MW14	183.0-188.0	184.1	184.2	184.15	mudstone	bf	hf	23	U	14	U	310	U	12	U	34	U	290	U	14	U	320	U	48	
CDEMDMW14185.70VOC	MW14	183.0-188.0	185.7	185.8	185.75	mudstone	bf	hf	19	U	12	U	260	U	10	U	29	U	240	U	12	U	270	U	38	
CDEMDMW14186.80VOC	MW14	183.0-188.0	186.8	186.9	186.85	mudstone	bf	hf	11	U	6.7	U	150	U	6	U	17	U	140	U	6.8	U	160	U	12	U
CDEMDMW14188.80VOC	MW14	188.0-193.0	188.8	188.9	188.85	mudstone	bf	hf	19	U	12	U	260	U	10	U	29	U	240	U	12	U	270	U	21	U
CDEMDMW14190.60VOC	MW14	188.0-193.0	190.6	190.7	190.65	mudstone	bet	hf	19	U	12	U	260	U	10	U	29	U	240	U	12	U	270	U	99	
CDEMDMW14193.60VOC	MW14	193.0-198.0	193.6	193.8	193.7	mudstone	bf	hf	17	U	9.9	U	230	U	8.8	U	25	U	210	U	10	U	230	U	36	
CDEMDMW14196.20VOC	MW14	193.0-198.0	196.2	196.4	196.3	mudstone	bf	hf	15	U	9.3	U	210	U	8.3	U	23	U	190	U	9.4	U	220	U	29	
CDEMDMW14197.40VOC	MW14	193.0-198.0	197.4	197.6	197.5	mudstone	bet	hf	17	U	10	U	230	U	9	U	25	U	210	U	10	U	240	U	29	
CDEMDMW14199.30VOC	MW14	198.0-203.0	199.3	199.4	199.35	mudstone	bkn	hf	21	U	13	U	290	U	11	U	31	U	260	U	13	U	290	U	23	U
CDEMDMW14201.10VOC	MW14	198.0-203.0	201.1	201.2	201.15	mudstone	bet	hf	13	U	8	U	180	U	7.1	U	20	U	170	U	8.1	U	190	U	15	U
CDEMDMW14203.60VOC	MW14	203.0-208.0	203.6	203.7	203.65	mudstone	bf	hf	20	U	13	U	270	U	11	U	29	U	250	U	13	U	270	U	22	U
CDEMDMW14205.00VOC	MW14	203.0-208.0	205	205.1	205.05	mudstone	bf	hf	17	U	11	U	220	U	9.5	U	24	U	210	U	11	U	230	U	29	
CDEMDMW14206.60VOC	MW14	203.0-208.0	206.6	206.7	206.65	mudstone	bf	hf	20	U	13	U	270	U	11	U	29	U	250	U	13	U	270	U	22	U
CDEMDMW14208.50VOC	MW14	208.0-213.0	208.5	208.6	208.55	mudstone	bf	hf	22	U	14	U	290	U	12	U	31	U	270	U	14	U	290	U	55	
CDEMDMW14210.00VOC	MW14	208.0-213.0	210	210.1	210.05	mudstone	bf	hf	19	U	12	U	240	U	10	U	43		230	U	12	U	250	U	44	
CDEMDMW14214.60VOC	MW14	213.0-218.0	214.6	214.7	214.65	mudstone	bf	hf	24	U	15	U	310	U	13	U	26	J	290	U	15	U	320	U	35	

R2-0016764

Table A2: VOC Concentrations in Rock Core Samples - ug/L Pore Water, Revised 4/16/2010

	Field Sample Information (2)					Comments/Interpretation (3)			Estimated Pore Water Concentration (ug/L) (5)																	
		Core Run	Depth from	Depth to	Avg. Depth																					
Sample ID	Location ID	Interval (ft bgs)	ft	ft	(ft bgs)	Sample Lithology (3a)	Position Relative to Fracturing (3b)	Fracture Type (3c)	1,1,1-Trichloroethane		1,1,2-Trichloro-1,2,2-trifluoroethane		*1,1-Dichloroethene*		*Carbon Tetrachloride*		Chloroform		cis-1,2-Dichloroethene		Tetrachloroethene		trans-1,2-Dichloroethene		Trichloroethene	
CDEMDMW14215.80VOC	MW14	213.0-218.0	215.7	215.8	215.75	mudstone	bf	hf	11	U	6.6	U	140	U	5.9	U	15	U	130	U	6.7	U	140	U	53	
CDEMDMW14216.90VOC	MW14	213.0-218.0	216.9	217	216.95	mudstone	bf	hf	17	U	11	U	220	U	9.5	U	24	U	210	U	11	U	230	U	27	
CDEMDMW14219.90VOC	MW14	218.0-223.0	219.9	220	219.95	mudstone	bf	hf	16	U	9.9	U	210	U	8.9	U	22	U	190	U	10	U	210	U	17	U
CDEMDMW14221.90VOC	MW14	218.0-223.0	221.9	222	221.95	mudstone	bf	hf	17	U	10	U	220	U	9.3	U	24	U	200	U	11	U	220	U	18	U
CDEMDMW14223.60VOC	MW14	223.0-228.0	223.6	223.7	223.65	mudstone	bf	hf	17	U	12	U	210	U	11	U	22	U	200	U	12	U	210	U	18	U
CDEMDMW14225.70VOC	MW14	223.0-228.0	225.7	225.8	225.75	mudstone	bet	hf	14	U	9.5	U	170	U	8.7	U	18	U	160	U	9.6	U	170	U	23	
CDEMDMW14227.20VOC	MW14	223.0-228.0	227.2	227.3	227.25	mudstone	bet	hf	11	U	7.3	U	130	U	6.6	U	14	U	120	U	7.3	U	130	U	20	
CDEMDMW14228.90VOC	MW14	228.0-233.0	228.9	229.1	229	mudstone	bf	hf	14	U	9.8	U	180	U	8.9	U	19	U	170	U	9.9	U	180	U	15	U
CDEMDMW14231.30VOC	MW14	228.0-233.0	231.3	231.5	231.4	mudstone	bf	hf	10	U	6.9	U	120	U	6.3	U	13	U	120	U	6.9	U	130	U	11	

Notes:

1. This table presents data recorded in conducting field sampling and laboratory analysis of rock core samples from thiee drilling locations designated MW14, MW16, and MW20. The rock core drilling was conducted by Advanced Drilling and was observed and logged by Malccolm Pirnie, Inc. personnel during the period of January 21 to March 3, 2009n The samples were collected, processed and preserved in the field by Stone Environmental Inc. (Stone) personnel then transported under COC to Stone's on-site lab where they were extracted and analyzed for the listed target Volatile Organic Compounds (VOCs) using methods developed by UG. Refer to the Stone report text and tables for additional details regarding sampling, sample preparation, extraction, and analysis.

2. Field sampling information includes an alphabetical field sample ID, the ID and depth interval of each nominally five-foot core run, and the sample depth in feet from ground surface.

3. The Comments/Interpretation section include general notes regarding the sample characteristics, field classified lithology, position relative to fracturing, and type of fracturing according to Stone standard protocols as explained further below.
   a) Lithologies include fine sandstone (fine ss), siltstone, shale and combinations thereof, and reflect UG/SHA personnel classification of the sample at the time of collection.
   b) Position relative to fracturing indicates the position of the sample relative to observed fractures inferred to reflect insitu features with the following legend:
   "bet"= between closely spaced fractures; "tf"=top of fracture surface; "bf"=bottom of fracture surface; "bkn"=broken or crumbled region; "f#" = sampled distance in feet from fracture surface.
   c) Fracture type denotes relative orientation of fracture relative to the axis of the core with "hf" denoting a horizontal fracture, "vf" a nominally vertical fracture, "ang" an angled fracture, "bkn" a highly fractured/broken zone, and "mech" a mechanical (drilling induced) break, respectively.

4. The laboratory results for volatile organic compounds in rock are expressed in units of micrograms per gram (ug/g) of rock sample at field moisture conditions at the time of sampling for the target compounds including: tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-DCE), trans-1,2-dichloroethene (trans-DCE), 1,1-dichloroethene (1,1-DCE), carbon tetrachloride (CT), chloroform (CF) and 1,1,1-trichloroethane (1,1,1-TCA). The values are rounded to two significant figures. "ND" denotes that the compound was not detected, please refer to the report text and appendices for information regarding detection and quantitation limits. The second colum for each compound denotes quality assurance flags including: "U" denoting that a compound was not detected above the method detection limit (MDL); "J" indicated an approximate concentration between the compound and sample-specific MDL and Limit of Quantitation (LOQ) or Reporting Limit (RL); "B" indicates the concentration is suspect since the compound was detected within a factor of five (based on EPA rule for data validation) in an associated laboratory blank or due to GC carryover (reporting limit elevated); "R" denotes sample result rejected due to chromatographic interference causing inadequate peak separation or resolution or other deficiency in data generation process.

5. The Estimated Pore Water Concentration in micrograms per liter (ug/L) represents an estimate of the equivalent matrix porewater concentrations (Cw) computed based on the laboratory determined total mass concentration (mg/g of wet rock), as outlined in the report text, using estimated or measured parameters including rock wet bulk density (g/cm3) as received in the field, matrix porosity, and matrix retardation factor (R). This simplified partitioning analysis assumes the rock matrix porosity was fully saturated with water, and that mass occurs at equilibrium in the dissolved and sorbed phase. Refer to the UG report text for additional details.

R2-0016765

APPENDIX B: VOC ANALYTICAL REPORT

STONE ENVIRONMENTAL INC

MALCOLM PIRNIE, SOUTH PLAINFIELD, NJ
PROJECT NO. 082130-R
STONE ENVIRONMENTAL, INC. LABORATORY

SAMPLE DATA PACKAGE

SAMPLES RECEIVED JANUARY 21, 2009 TO MARCH 3, 2009

STONE ENVIRONMENTAL INC

MALCOLM PIRNIE, SOUTH PLAINFIELD, NJ
PROJECT NO. 082130-R
STONE ENVIRONMENTAL, INC. LABORATORY

NARRATIVE REPORT AND CHAIN OF CUSTODIES

STONE ENVIRONMENTAL INC

MALCOLM PIRNIE, SOUTH PLAINFIELD, NJ
PROJECT NO. 082130-R
STONE ENVIRONMENTAL, INC. LABORATORY

NARRATIVE – June 10, 2009

INTRODUCTION

This data package presents the analytical results for the rock core samples analyzed by Stone Environmental, Inc. Laboratory (Stone) at the On-Site laboratory from January 21, 2009 to March 3, 2009. Samples were collected at the South Plainfield Site on January 21, 2009 to March 3, 2009. These samples were received at the laboratory on the same day of sample collection.

Rock core samples were collected in the field at depth interval in accordance with the standard operating procedures (SOPs). Approximately 15-30 gram aliquots of rock at each depth were preserved in methanol in the field. Methanol preserved rock samples were analyzed by Stone SOP SEI-10.18.0, "The Determination of Volatile Organic Compounds By Gas Chromatography / Dual ECD Detectors in Rock Samples (Using Cool On Column Injection and Split Method Injection)" for nine chlorinated volatile organic compounds (VOCs) identified as Test Method 6520RockA and 6520RockB on the reporting forms and in the database.

All analyses were performed within 10 days of sample collection. The analytical results associated with the samples presented in this data package were generated under a quality system that adheres to requirements specified in the National Environmental Laboratory Accreditation Conference (NELAC) standards for standard methods as applicable. Results for the quality control (QC) samples (laboratory and field method blanks, laboratory control samples (LCS), matrix spike samples, equipment blanks, trip blanks, opening continuing calibration samples, and laboratory duplicates) are provided in the Quality Control Summaries Section following this narrative. Matrix spike analyses performed on these samples at an approximate frequency of 5%. Deviations, comments and qualifiers outside the conditions stated in the associated laboratory SOPs are noted below.

Volatile Organic Analysis by GC/ECD

- Rock samples were received in preserved methanol VOA vials and acceptable. Samples were prepared for analysis by using the SOP SEI-10.17.0, "Microwave Assisted Extraction (MAE) of Volatile Organic Compounds from Rock Samples." This method was designed at the University of Waterloo and is used to extract VOCs from rock samples. All results are reported on a wet-weight basis (as received) on the analytical reporting forms. The laboratory login summaries and sample weights used for reporting are provided in the data package after the reporting form summaries.

- Samples MW14027.65, MW1430.60, MW1467.80, MW1461.50, MW1424.80, MW14FD01, MW1446.50, MW1450.65, MW1459.80, MW1457.0, MW1452.60, MW1455.0, MW1443.20, MW1435.70, MW1436.30 and MW1433.0 required a subsequent dilution analysis for reporting since analytes in the original analyses were outside the calibration range of the low level calibration on injection port A (6520RockA). Results presented on the Form I for these analytes were taken from the subsequent run (6520RockB) analysis on injection port B.

- Several types of quality control blanks were prepared and analyzed with the rock samples. The types of field blanks and laboratory method blanks were identified as follows: field equipment blanks are EB, field preparation blanks are MB, laboratory analytical blanks are identified as "VBLK##" and were performed daily typically after the continuing calibration verification (CCV or VSTD##) standard. These laboratory blanks (sample identifier: VBLK##) were acceptable for each analytical batch with the exception of the presence of tetrachloroethene detected below the reporting limit in the following blanks: 0.59 ppb in VBLKAB, 0.60 ppb in VBLKAK, 0.97 ppb in VBLKAM. None of the other associated blanks reported target compounds above the reporting limits; however, trace amounts were observed in several of the blanks at concentrations below the reporting limit as follows: 1,1,1-trichloroethane (0.34 to 0.37 ppb) and chloroform (0.92 to 1.8 ppb) in site EBs. Rather than qualification of the sample results with the "B" qualifier, blank contamination was evaluated in accordance to the EPAs National Functional Guidelines for Organic Data Review (EPA 540/R-99/008, 10/99) which allows for adjustment of the reporting limit based on blank contamination. Therefore, based on laboratory blank contamination observed in the method blank positive results detected below the reporting limits for tetrachloroethene in all samples were qualified as less than the reporting limit (U). No other qualifications were made based on the other field blanks contamination.

- In addition, microwave vessel blanks are analyzed with the microextractions, although not formally reported in the data package, there was suspected laboratory contamination issues with trichloroethene in certain MW20 samples (noted in the an e-mail on). Based on trace amounts of trichloroethene in observed in these blanks, there was a concern with carry over in these vessel blanks from previous samples extracted in these vessels from MW14 which exhibited elevated levels of trichloroethene. Based on review of the vessel blanks, the suspected data were qualified with a "B" qualification denoting the presence of trichloroethene as being suspected to come from laboratory vessels and may not be true sample constituent. As noted, vessel blanks are not formally presented in the data package.

- LCSs (independent) were performed daily; results for the LCSs are found in the QC summary section and were acceptable (QC limits 80-120%) with the following exceptions: Freon 113 (121%) in LCSAB, 1,1-dichloroethene (123%), Freon 113 (130%), and trans 1,2-dichloroethene (122%) in LCSAM, 1,1-dichloroethene (124%) in LCSAZ. Since these compounds were not detected in the analytical sequence and recoveries were just marginally above the limits, no action was taken on the elevated recoveries in the LCS samples.

- Matrix spike analyses were performed on samples MW14059.80, MW14105.60, MW14143.40, MW14223.60, MW14231.30, MW16035.00, MW16110.20, MW16149.70, MW16190.10, MW16230.30, MW20058.50, MW20090.75, MW20120.70, MW20157.20, MW20192.30, MW20231.40, MW20268.70, MW20310.60, MW20349.30and MW20387.10. Results for these samples are found in the QC summary section and were acceptable (QC limits are 70-130%; note: due to a software limitation some reporting form summaries note the limits as 80-120% rather than 70-130%) with the following exceptions: cis-1,2-dichloroethene (38%), trichloroethene (-603%) in sample MW14059.8, 1,1-dichloroethene (125%) in MW14143.40, trichloroethene (63%) in MW16110.20, and 1,1-dichloroethene (133%), 1,1,2-trichloro-1,2,2-trifluoroethane (133%) in MW20058.50. Since the recoveries were above the limits and typically not reported in the parent sample and in the case of sample MW14059.8 were the concentration of the target analytes, trichloroethene and cis-1,2-dichloroethene were greater than 4X the spike; no action was taken on matrix spike recoveries alone.

- Laboratory duplicate pair analyses were performed on samples MW14114.20, MW14134.0, MW14219.9, MW14223.6, MW14223.6, MW14227.2, MW14227.2MW16119.7, MW16128.4, MW16204.7, MW251.50, MW20341.20, MW20344.20, MW20345.7, and MW20357.0. Paired results in the laboratory duplicate pairs were within the applicable acceptance limits and exhibited excellent reproducibility (<20%RPD). Results for the laboratory duplicate pairs are found in the QC summary section of the data package.

- Continuing calibration verification (CCV) standards were performed daily; results for the CCVs are found in the QC summary section and were acceptable (<15%difference) with the following exceptions:

Date	Compound	%D
1/22/09 VSTDAA	Chloroform	17.5
	Carbon tetrachloride	19.6
	1,1,1-Trichloroethane	17.5
	Trichloroethene	15.5
	Tetrachloroethene	16.1
1/26/09 VSTDAC	Carbon tetrachloride	17.1
	1,1,1-Trichloroethane	16.2
2/06/09 VSTDAK	1,1,2-Trichloro-1,2,2-trifluoroethane	16.4
2/11/09 VSTDAM	1,1,2-Trichloro-1,2,2-trifluoroethane	-15.7
2/13/09	cis-1,2-Dichloroethene	-17.3
	Chloroform	-16.1

Since in most analytical sequences these compounds were not detected and the %differences were just marginally outside the limits, no data was qualified on the elevated %differences.

- The laboratory applies "J" qualifiers to the sample Form I's when the concentration of an analyte was less than the sample-specific quantitation limit.

When applicable, the final results were annotated with the following codes:

U - The analyte was analyzed for, but was not detected above the reported quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample. The "J" qualifiers are applied to the Form 1's when the concentration of an analyte is less than the sample specific reporting limit.

B - Indicates suspected blank contamination.

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator			Shipper		
	Vinny DeLeone			David Crosby		
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Department						
Address	535 Stone Cutters Way			535 Stone Cutters Way		
Address (cont)	Montpelier	VT	05602	Montpelier	VT	05602
Phone						

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-001	Rock VOC	40 mL VOA	1	21-Jan-09 16:00	MeOH	MAE	VOCs Rock	
VOC-002	Rock VOC	40 mL VOA	1	21-Jan-09 16:00	MeOH	MAE	VOCs Rock	
VOC-003	Rock VOC	40 mL VOA	1	21-Jan-09 16:00	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 1/21/09	Sample Integrity:
Received By:	Date/Time: 01/21/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

R2-0016772

Project Name: MPICDENJ South Plainfield

Chain of Custody

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Phone						

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-004	Rock VOC	40 mL VOA	1	22-Jan-09 14:53	MeOH	MAE	VOCs Rock	
VOC-005	Rock VOC	40 mL VOA	1	22-Jan-09 14:53	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 1/22/09	Sample Integrity:
Received By:	Date/Time: 1/22/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

R2-0016773

Project Name: MPICDENJ South Plainfield

Chain of Custody

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Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-006	Rock VOC	40 mL VOA	1	22-Jan-09 16:25	MeOH	MAE	VOCs Rock	
VOC-007	Rock VOC	40 mL VOA	1	22-Jan-09 16:25	MeOH	MAE	VOCs Rock	

Relinquished By:	[illegible]	Date/Time:	1/22/09		Sample Integrity:
Received By:	[illegible]	Date/Time:	01/22/09	(DD) 09005	Temperature:
Relinquished By:		Date/Time:			In Tact:
Received By:		Date/Time:			On Ice:_____ Ice Packs:_____

Thursday, January 22, 2009 Cooler ID 1 Page 1 of 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

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Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-008	Rock VOC	40 mL VOA	1	23-Jan-09 11:53	MeOH	MAE	VOCs Rock	
VOC-009	Rock VOC	40 mL VOA	1	23-Jan-09 11:53	MeOH	MAE	VOCs Rock	
VOC-010	Rock VOC	40 mL VOA	1	23-Jan-09 11:53	MeOH	MAE	VOCs Rock	
VOC-011	Rock VOC	40 mL VOA	1	23-Jan-09 11:53	MeOH	MAE	VOCs Rock	
VOC-012	Rock VOC	40 mL VOA	1	23-Jan-09 11:53	MeOH	MAE	VOCs Rock	

Relinquished By: [illegible]	Date/Time: 1/23/09	Sample Integrity:
Received By: [illegible]	Date/Time: 1/23/09 (10) 0906	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

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Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
CDEMDMW16EB001 VOC	~~Rock~~ EB VOC	40 mL VOA	1	23-Jan-09 12:06	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 1/23/09	Sample Integrity:
Received By:	Date/Time: 1/23/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

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53S Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-013	Rock VOC	40 mL VOA	1	23-Jan-09 16:38	MeOH	MAE	VOCs Rock	
VOC-014	Rock VOC	40 mL VOA	1	23-Jan-09 16:38	MeOH	MAE	VOCs Rock	
VOC-01S	Rock VOC	40 mL VOA	1	23-Jan-09 16:38	MeOH	MAE	VOCs Rock	
VOC-016	Rock VOC	40 mL VOA	1	23-Jan-09 16:38	MeOH	MAE	VOCs Rock	
VOC-017	Rock VOC	40 mL VOA	1	23-Jan-09 16:38	MeOH	MAE	VOCs Rock	

Relinquished By:	[illegible]	Date/Time:	1/23/09	Sample Integrity:	
Received By:	[illegible]	Date/Time:	1/23/09 (00) 09:05	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:_____	Ice Packs:_____

Friday, January 23, 2009 Cooler ID 1 Page 1 of 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-018	Rock VOC	40 mL VOA	1	26-Jan-09 13:30	MeOH	MAE	VOCs Rock	
VOC-019	Rock VOC	40 mL VOA	1	26-Jan-09 13:30	MeOH	MAE	VOCs Rock	
VOC-020	Rock VOC	40 mL VOA	1	26-Jan-09 13:30	MeOH	MAE	VOCs Rock	
VOC-021	Rock VOC	40 mL VOA	1	26-Jan-09 13:30	MeOH	MAE	VOCs Rock	
VOC-022	Rock VOC	40 mL VOA	1	26-Jan-09 13:30	MeOH	MAE	VOCs Rock	
VOC-023	Rock VOC	40 mL VOA	1	26-Jan-09 13:30	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 1/26/09	Sample Integrity:
Received By:	Date/Time: 1/26 1:05 (DD 09665)	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-024	Rock VOC	40 mL VOA	1	26-Jan-09 18:09	MeOH	MAE	VOCs Rock	
VOC-025	Rock VOC	40 mL VOA	1	26-Jan-09 18:10	MeOH	MAE	VOCs Rock	
VOC-026	Rock VOC	40 mL VOA	1	26-Jan-09 18:10	MeOH	MAE	VOCs Rock	
VOC-027	Rock VOC	40 mL VOA	1	26-Jan-09 18:10	MeOH	MAE	VOCs Rock	
VOC-028	Rock VOC	40 mL VOA	1	26-Jan-09 18:10	MeOH	MAE	VOCs Rock	

Relinquished By:	[illegible]	Date/Time:	1/26/09	Sample Integrity:	
Received By:	[illegible]	Date/Time:	1/26/09	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:_____ Ice Packs:_____	

Monday, January 26, 2009 Cooler ID 1 Page 1 of 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-029	Rock VOC	40 mL VOA	1	26-Jan-09 18:02	MeOH	MAE	VOCs Rock	
VOC-030	Rock VOC	40 mL VOA	1	26-Jan-09 18:02	MeOH	MAE	VOCs Rock	
VOC-031	Rock VOC	40 mL VOA	1	26-Jan-09 18:02	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 1/26/09	Sample Integrity:
Received By:	Date/Time: 1/26/09 @09:00	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

R2-0016780

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator			Shipper		
	Vinny DeLeone			Vinny DeLeone		
Company	Stone Environmental, Inc.			Stone Environmental, Inc.		
Department						
Address	535 Stone Cutters Way			535 Stone Cutters Way		
Address (cont)	Montpelier	VT	05602	Montpelier	VT	05602
Phone						

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-032	Rock VOC	40 mL VOA	1	27-Jan-09 11:59	MeOH	MAE	VOCs Rock	
VOC-033	Rock VOC	40 mL VOA	1	27-Jan-09 11:59	MeOH	MAE	VOCs Rock	
VOC-034	Rock VOC	40 mL VOA	1	27-Jan-09 11:59	MeOH	MAE	VOCs Rock	
VOC-036	Rock VOC	40 mL VOA	1	27-Jan-09 11:59	MeOH	MAE	VOCs Rock	
VOC-037	Rock VOC	40 mL VOA	1	27-Jan-09 11:59	MeOH	MAE	VOCs Rock	
VOC-038	Rock VOC	40 mL VOA	1	27-Jan-09 11:59	MeOH	MAE	VOCs Rock	
VOC-039	Rock VOC	40 mL VOA	1	27-Jan-09 11:59	MeOH	MAE	VOCs Rock	

Relinquished By:	[illegible]	Date/Time:	1/27/09		Sample Integrity:
Received By:	[illegible]	Date/Time:	1/27/09	@ 0900	Temperature:
Relinquished By:		Date/Time:			In Tact:
Received By:		Date/Time:			On Ice:_____ Ice Packs:_____

Tuesday, January 27, 2009 Cooler ID 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
CDEMDMW16EB002	Equip Blank	40 mL VOA	1	27-Jan-09 17:18	MeOH	MAE	VOCs Rock	
VOC-040	Rock VOC	40 mL VOA	1	27-Jan-09 17:17	MeOH	MAE	VOCs Rock	
VOC-041	Rock VOC	40 mL VOA	1	27-Jan-09 17:17	MeOH	MAE	VOCs Rock	
VOC-042	Rock VOC	40 mL VOA	1	27-Jan-09 17:17	MeOH	MAE	VOCs Rock	
VOC-043	Rock VOC	40 mL VOA	1	27-Jan-09 17:17	MeOH	MAE	VOCs Rock	
VOC-044	Rock VOC	40 mL VOA	1	27-Jan-09 17:17	MeOH	MAE	VOCs Rock	
VOC-045	Rock VOC	40 mL VOA	1	27-Jan-09 17:17	MeOH	MAE	VOCs Rock	
VOC-046	Rock VOC	40 mL VOA	1	27-Jan-09 17:17	MeOH	MAE	VOCs Rock	
VOC-047	Rock VOC	40 mL VOA	1	27-Jan-09 17:18	MeOH	MAE	VOCs Rock	
VOC-048	Rock VOC	40 mL VOA	1	27-Jan-09 17:18	MeOH	MAE	VOCs Rock	
VOC-049	Rock VOC	40 mL VOA	1	27-Jan-09 17:18	MeOH	MAE	VOCs Rock	
VOC-050	Rock VOC	40 mL VOA	1	27-Jan-09 17:18	MeOH	MAE	VOCs Rock	
VOC-051	Rock VOC	40 mL VOA	1	27-Jan-09 17:18	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 1/27/09	Sample Integrity:
Received By:	Date/Time: 1/27/09 (02)096605	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Tuesday, January 27, 2009 Cooler ID 1 Page 1 of 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-052	Rock VOC	40 mL VOA	1	28-Jan-09 12:39	MeOH	MAE	VOCs Rock	63.15g
VOC-053	Rock VOC	40 mL VOA	1	28-Jan-09 12:39	MeOH	MAE	VOCs Rock	55.23g
VOC-054	Rock VOC	40 mL VOA	1	28-Jan-09 12:39	MeOH	MAE	VOCs Rock	65.55g
VOC-05S	Rock VOC	40 mL VOA	1	28-Jan-09 12:39	MeOH	MAE	VOCs Rock	62.26g
VOC-056	Rock VOC	40 mL VOA	1	28-Jan-09 12:39	MeOH	MAE	VOCs Rock	~~60~~ 090128 71.89g

Relinquished By:		Date/Time:	1/28/09		Sample Integrity:
Received By:		Date/Time:	1/28/09	090605	Temperature:
Relinquished By:		Date/Time:			In Tact:
Received By:		Date/Time:			On Ice: _____ Ice Packs: _____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-057	Rock VOC	40 mL VOA	1	28-Jan-09 17:13	MeOH	MAE	VOCs Rock	
VOC-058	Rock VOC	40 mL VOA	1	28-Jan-09 17:13	MeOH	MAE	VOCs Rock	
VOC-059	Rock VOC	40 mL VOA	1	28-Jan-09 17:13	MeOH	MAE	VOCs Rock	
VOC-060	Rock VOC	40 mL VOA	1	28-Jan-09 17:13	MeOH	MAE	VOCs Rock	
VOC-061	Rock VOC	40 mL VOA	1	28-Jan-09 17:13	MeOH	MAE	VOCs Rock	
VOC-062	Rock VOC	40 mL VOA	1	28-Jan-09 17:13	MeOH	MAE	VOCs Rock	
VOC-063	Rock VOC	40 mL VOA	1	28-Jan-09 17:13	MeOH	MAE	VOCs Rock	
VOC-064	Rock VOC	40 mL VOA	1	28-Jan-09 17:13	MeOH	MAE	VOCs Rock	

Relinquished By:	[illegible]	Date/Time:	1/28/09	Sample Integrity:	
Received By:	[illegible]	Date/Time:	1/28/09 @ 0900	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:_____	Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
CDEMDMW16EB003 VOC	Rock VOC	40 mL VOA	1	29-Jan-09 12:04	MeOH	MAE	VOCs Rock	
VOC-06S	Rock VOC	40 mL VOA	1	29-Jan-09 12:03	MeOH	MAE	VOCs Rock	
VOC-066	Rock VOC	40 mL VOA	1	29-Jan-09 12:03	MeOH	MAE	VOCs Rock	
VOC-067	Rock VOC	40 mL VOA	1	29-Jan-09 12:03	MeOH	MAE	VOCs Rock	
VOC-068	Rock VOC	40 mL VOA	1	29-Jan-09 12:04	MeOH	MAE	VOCs Rock	
VOC-069	Rock VOC	40 mL VOA	1	29-Jan-09 12:04	MeOH	MAE	VOCs Rock	
VOC-070	Rock VOC	40 mL VOA	1	29-Jan-09 12:04	MeOH	MAE	VOCs Rock	
VOC-071	Rock VOC	40 mL VOA	1	29-Jan-09 12:04	MeOH	MAE	VOCs Rock	
VOC-072	Rock VOC	40 mL VOA	1	29-Jan-09 12:04	MeOH	MAE	VOCs Rock	
VOC-073	Rock VOC	40 mL VOA	1	29-Jan-09 12:04	MeOH	MAE	VOCs Rock	
VOC-074	Rock VOC	40 mL VOA	1	29-Jan-09 12:04	MeOH	MAE	VOCs Rock	
VOC-075	Rock VOC	40 mL VOA	1	29-Jan-09 12:04	MeOH	MAE	VOCs Rock	
VOC-076	Rock VOC	40 mL VOA	1	29-Jan-09 12:04	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 1/29/09	Sample Integrity:
Received By:	Date/Time: 1/29/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Thursday, January 29, 2009 Cooler ID 1 Page 1 of 1

R2-0016785

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	53S Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-077	Rock VOC	40 mL VOA	1	29-Jan-09 17:10	MeOH	MAE	VOCs Rock	
VOC-078	Rock VOC	40 mL VOA	1	29-Jan-09 17:11	MeOH	MAE	VOCs Rock	
VOC-079	Rock VOC	40 mL VOA	1	29-Jan-09 17:11	MeOH	MAE	VOCs Rock	
VOC-080	Rock VOC	40 mL VOA	1	29-Jan-09 17:11	MeOH	MAE	VOCs Rock	
VOC-081	Rock VOC	40 mL VOA	1	29-Jan-09 17:11	MeOH	MAE	VOCs Rock	
VOC-082	Rock VOC	40 mL VOA	1	29-Jan-09 17:11	MeOH	MAE	VOCs Rock	
VOC-083	Rock VOC	40 mL VOA	1	29-Jan-09 17:11	MeOH	MAE	VOCs Rock	
VOC-085	Rock VOC	40 mL VOA	1	29-Jan-09 17:11	MeOH	MAE	VOCs Rock	
VOC-086	Rock VOC	40 mL VOA	1	29-Jan-09 17:11	MeOH	MAE	VOCs Rock	
VOC-087	Rock VOC	40 mL VOA	1	29-Jan-09 17:11	MeOH	MAE	VOCs Rock	

Relinquished By:	[signature]	Date/Time:	1/29/09	Sample Integrity:	
Received By:	[signature]	Date/Time:	1/29/09 @ 0905	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:_____	Ice Packs:_____

No VOC-084

Thursday, January 29, 2009 Cooler ID 1 Page 1 of 1

R2-0016786

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
CDEMDMW16EB004	Rock VOC	40 mL VOA	1	30-Jan-09 11:35	MeOH	MAE	VOCs Rock	
VOC-088	Rock VOC	40 mL VOA	1	30-Jan-09 11:35	MeOH	MAE	VOCs Rock	
VOC-089	Rock VOC	40 mL VOA	1	30-Jan-09 11:35	MeOH	MAE	VOCs Rock	
VOC-090	Rock VOC	40 mL VOA	1	30-Jan-09 11:35	MeOH	MAE	VOCs Rock	
VOC-091	Rock VOC	40 mL VOA	1	30-Jan-09 11:36	MeOH	MAE	VOCs Rock	
VOC-092	Rock VOC	40 mL VOA	1	30-Jan-09 11:36	MeOH	MAE	VOCs Rock	
VOC-093	Rock VOC	40 mL VOA	1	30-Jan-09 11:36	MeOH	MAE	VOCs Rock	
VOC-094	Rock VOC	40 mL VOA	1	30-Jan-09 11:36	MeOH	MAE	VOCs Rock	
VOC-095	Rock VOC	40 mL VOA	1	30-Jan-09 11:36	MeOH	MAE	VOCs Rock	
VOC-096	Rock VOC	40 mL VOA	1	30-Jan-09 11:36	MeOH	MAE	VOCs Rock	

Relinquished By:	[illegible]	Date/Time:	1/30/09		Sample Integrity:
Received By:	[illegible]	Date/Time:	1/30/09	0965	Temperature:
Relinquished By:		Date/Time:			In Tact:
Received By:		Date/Time:			On Ice:_____ Ice Packs:_____

Friday, January 30, 2009 Cooler ID 1 Page 1 of 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	53S Stone Cutters Way
Address (cont)	Montpelier VT 0S602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-097	Rock VOC	40 mL VOA	1	30-Jan-09 15:28	MeOH	MAE	VOCs Rock	
VOC-098	Rock VOC	40 mL VOA	1	30-Jan-09 15:28	MeOH	MAE	VOCs Rock	
VOC-099	Rock VOC	40 mL VOA	1	30-Jan-09 15:28	MeOH	MAE	VOCs Rock	
VOC-100	Rock VOC	40 mL VOA	1	30-Jan-09 15:28	MeOH	MAE	VOCs Rock	
VOC-101	Rock VOC	40 mL VOA	1	30-Jan-09 1S:28	MeOH	MAE	VOCs Rock	
VOC-102	Rock VOC	40 mL VOA	1	30-Jan-09 15:29	MeOH	MAE	VOCs Rock	
VOC-103	Rock VOC	40 mL VOA	1	30-Jan-09 1S:29	MeOH	MAE	VOCs Rock	
VOC-104	Rock VOC	40 mL VOA	1	30-Jan-09 15:29	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 1/30/09	Sample Integrity:
Received By:	Date/Time: 1/30/09 (09090605	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-105	Rock VOC	40 mL VOA	1	30-Jan-09 16:14	MeOH	MAE	VOCs Rock	
VOC-106	Rock VOC	40 mL VOA	1	30-Jan-09 16:14	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 1/30/09	Sample Integrity:
Received By:	Date/Time: 1/30/09 @ 09:00	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Friday, January 30, 2009 Cooler ID 1 Page 1 of 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
CDEMDMW16EB005 voc	Rock VOC	40 mL VOA	1	02-Feb-09 11:09	MeOH	MAE	VOCs Rock	
voc-107	Rock VOC	40 mL VOA	1	02-Feb-09 11:07	MeOH	MAE	VOCs Rock	
VOC-108	Rock VOC	40 mL VOA	1	02-Feb-09 11:07	MeOH	MAE	VOCs Rock	
VOC-109	Rock VOC	40 mL VOA	1	02-Feb-09 11:07	MeOH	MAE	VOCs Rock	
VOC-110	Rock VOC	40 mL VOA	1	02-Feb-09 11:09	MeOH	MAE	VOCs Rock	
VOC-111	Rock VOC	40 mL VOA	1	02-Feb-09 11:09	MeOH	MAE	VOCs Rock	
VOC-112	Rock VOC	40 mL VOA	1	02-Feb-09 11:09	MeOH	MAE	VOCs Rock	
VOC-113	Rock VOC	40 mL VOA	1	02-Feb-09 11:09	MeOH	MAE	VOCs Rock	
VOC-114	Rock VOC	40 mL VOA	1	02-Feb-09 11:09	MeOH	MAE	VOCs Rock	
VOC-115	Rock VOC	40 mL VOA	1	02-Feb-09 11:09	MeOH	MAE	VOCs Rock	
VOC-134	Rock VOC	40 mL VOA	1	02-Feb-09 11:09	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 2/2/09 @ 096605	Sample Integrity:
Received By:	Date/Time: ~~2/09/09~~ 2/02/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Monday, February 02, 2009 Cooler ID 1 Page 1 of 1

R2-0016790

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-116	Rock VOC	40 mL VOA	1	02-Feb-09 15:07	MeOH	MAE	VOCs Rock	
VOC-117	Rock VOC	40 mL VOA	1	02-Feb-09 15:07	MeOH	MAE	VOCs Rock	
VOC-118	Rock VOC	40 mL VOA	1	02-Feb-09 15:07	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 2/2/09	Sample Integrity:
Received By:	Date/Time: 2/2/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

R2-0016791

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-119	Rock VOC	40 mL VOA	1	02-Feb-09 16:12	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 2/2/09	Sample Integrity:
Received By:	Date/Time: 2/2/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	S3S Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-120	Rock VOC	40 mL VOA	1	05-Feb-09 16:25	MeOH	MAE	VOCs Rock	
VOC-121	Rock VOC	40 mL VOA	1	05-Feb-09 16:25	MeOH	MAE	VOCs Rock	
VOC-122	Rock VOC	40 mL VOA	1	05-Feb-09 16:25	MeOH	MAE	VOCs Rock	
VOC-123	Rock VOC	40 mL VOA	1	05-Feb-09 16:25	MeOH	MAE	VOCs Rock	
VOC-124	Rock VOC	40 mL VOA	1	05-Feb-09 16:25	MeOH	MAE	VOCs Rock	
VOC-125	Rock VOC	40 mL VOA	1	05-Feb-09 16:25	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 2/5/09	Sample Integrity:
Received By:	Date/Time: 2/5/09 @ 0710605	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-126	Rock VOC	40 mL VOA	1	06-Feb-09 12:01	MeOH	MAE	VOCs Rock	
VOC-127	Rock VOC	40 mL VOA	1	06-Feb-09 12:01	MeOH	MAE	VOCs Rock	
VOC-128	Rock VOC	40 mL VOA	1	06-Feb-09 12:01	MeOH	MAE	VOCs Rock	
VOC-129	Rock VOC	40 mL VOA	1	06-Feb-09 12:01	MeOH	MAE	VOCs Rock	
VOC-130	Rock VOC	40 mL VOA	1	06-Feb-09 12:02	MeOH	MAE	VOCs Rock	
VOC-131	Rock VOC	40 mL VOA	1	06-Feb-09 12:02	MeOH	MAE	VOCs Rock	
VOC-132	Rock VOC	40 mL VOA	1	06-Feb-09 12:02	MeOH	MAE	VOCs Rock	
VOC-133	Rock VOC	40 mL VOA	1	06-Feb-09 12:02	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 2/6/09	Sample Integrity:
Received By:	Date/Time: 2/06/09 @ 09:05	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
CDEMDMW14EB001	Rock VOC	40 mL VOA	1	06-Feb-09 16:46	MeOH	MAE	VOCs Rock	
VOC-135	Rock VOC	40 mL VOA	1	06-Feb-09 16:45	MeOH	MAE	VOCs Rock	
VOC-136	Rock VOC	40 mL VOA	1	06-Feb-09 16:45	MeOH	MAE	VOCs Rock	
VOC-137	Rock VOC	40 mL VOA	1	06-Feb-09 16:45	MeOH	MAE	VOCs Rock	
VOC-138	Rock VOC	40 mL VOA	1	06-Feb-09 16:45	MeOH	MAE	VOCs Rock	
VOC-139	Rock VOC	40 mL VOA	1	06-Feb-09 16:45	MeOH	MAE	VOCs Rock	
VOC-140	Rock VOC	40 mL VOA	1	06-Feb-09 16:45	MeOH	MAE	VOCs Rock	
VOC-141	Rock VOC	40 mL VOA	1	06-Feb-09 16:45	MeOH	MAE	VOCs Rock	
VOC-142	Rock VOC	40 mL VOA	1	06-Feb-09 16:46	MeOH	MAE	VOCs Rock	
VOC-143	Rock VOC	40 mL VOA	1	06-Feb-09 16:46	MeOH	MAE	VOCs Rock	
VOC-144	Rock VOC	40 mL VOA	1	06-Feb-09 16:46	MeOH	MAE	VOCs Rock	
VOC-145	Rock VOC	40 mL VOA	1	06-Feb-09 16:46	MeOH	MAE	VOCs Rock	
VOC-146	Rock VOC	40 mL VOA	1	06-Feb-09 16:46	MeOH	MAE	VOCs Rock	

Relinquished By:	Date/Time: 2/6/09	Sample Integrity:
Received By:	Date/Time: 2/06/09 0800	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Friday, February 06, 2009 Cooler ID 1 Page 1 of 1

R2-0016795

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Lee Rosberg	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Investigation & Remediation	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-5378 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments	Sample Time / Date
CDMEDMW20029.10	Rock VOC	40 mL VOA	1	09-Feb-09 17:19	MeOH	MAE	VOCs Rock	VOC-147	15:48 2/9/09
CDMEDMW20030.10	Rock VOC	40 mL VOA	1	09-Feb-09 17:19	MeOH	MAE	VOCs Rock	VOC-148	15:51 2/9/09
CDMEDMW20030.85	Rock VOC	40 mL VOA	1	09-Feb-09 17:20	MeOH	MAE	VOCs Rock	VOC-149	15:56 2/9/09
CDMEDMW20031.48	Rock VOC	40 mL VOA	1	09-Feb-09 17:20	MeOH	MAE	VOCs Rock	VOC-150	15:58 2/9/09
CDMEDMW~~200355.1~~ 20035.10 LSP 2/9/09	Rock VOC	40 mL VOA	1	09-Feb-09 17:20	MeOH	MAE	VOCs Rock	VOC-151	16:25 2/9/09
CDMEDMW20037.50	Rock VOC	40 mL VOA	1	09-Feb-09 17:20	MeOH	MAE	VOCs Rock	VOC-152	16:28 2/9/09

Relinquished By: Lee Rosberg	Date/Time: 2/9/09 17:30	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time: 2/9/09	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date/Time
CDEMDMW20EB001	Rock VOC	40 mL VOA	1	10-Feb-09 11:29	MeOH	MAE	VOCs Rock		2/10/09 10:54
VOC-153	Rock VOC	40 mL VOA	1	10-Feb-09 11:20	MeOH	MAE	VOCs Rock	CDEMDMW20038.70 VOC	2/10/09 08:38
VOC-154	Rock VOC	40 mL VOA	1	10-Feb-09 11:20	MeOH	MAE	VOCs Rock	CDEMDMW20039.70VOC	2/10/09 08:41
voc-155	Rock VOC	40 mL VOA	1	10-Feb-09 11:20	MeOH	MAE	VOCs Rock	CDEMDMW20040.40VOC	2/10/09 08:44
VOC-156	Rock VOC	40 mL VOA	1	10-Feb-09 11:20	MeOH	MAE	VOCs Rock	CDEMDMW20041.90 VOC	2/10/09 08:47
VOC-157	Rock VOC	40 mL VOA	1	10-Feb-09 11:20	MeOH	MAE	VOCs Rock	CDEMDMW200 43.80VOC	2/10/09 09:20
VOC-158	Rock VOC	40 mL VOA	1	10-Feb-09 11:20	MeOH	MAE	VOCs Rock	CDEMDMW200 45.20VOC	2/10/09 09:23
VOC-159	Rock VOC	40 mL VOA	1	10-Feb-09 11:21	MeOH	MAE	VOCs Rock	CDEMDMW200 46.20VOC	2/10/09 09:26
VOC-160	Rock VOC	40 mL VOA	1	10-Feb-09 11:21	MeOH	MAE	VOCs Rock	CDEMDMW200 49.70VOC	2/10/09 10:04
VOC-161	Rock VOC	40 mL VOA	1	10-Feb-09 11:21	MeOH	MAE	VOCs Rock	CDEMDMW200 50.70VOC	2/10/09 10:07
VOC-162	Rock VOC	40 mL VOA	1	10-Feb-09 11:21	MeOH	MAE	VOCs Rock	CDEMDMW200	2/10/09 10:10
VOC-163	Rock VOC	40 mL VOA	1	10-Feb-09 11:21	MeOH	MAE	VOCs Rock	CDEMDMW200	2/10/09 10:13
VOC-164	Rock VOC	40 mL VOA	1	10-Feb-09 11:21	MeOH	MAE	VOCs Rock	CDEMDMW200 53.70	2/10/09 11:14
VOC-165	Rock VOC	40 mL VOA	1	10-Feb-09 11:22	MeOH	MAE	VOCs Rock	CDEMDMW20055.70	2/10/09 11:17

R2-0016797

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments

Relinquished By: Lee Rosberg	Date/Time: 2/10/09 11:45	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By: [illegible]	Date/Time: 2/10/09	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample NAme	Sample Date/Time
VOC-166	Rock VOC	40 mL VOA	1	10-Feb-09 15:55	MeOH	MAE	VOCs Rock	CDEMDMW20058.50VOC	2/10/09 12:21
VOC-167	Rock VOC	40 mL VOA	1	10-Feb-09 15:55	MeOH	MAE	VOCs Rock	CDEMDMW20FD001VOC	2/10/09 12:22
VOC-168	Rock VOC	40 mL VOA	1	10-Feb-09 15:55	MeOH	MAE	VOCs Rock	CDEMDMW20058.50VOC ~~CDEMDMW20059.35VOC~~ JR	2/10/09 12:23
VOC-169	Rock VOC	40 mL VOA	1	10-Feb-09 15:55	MeOH	MAE	VOCs Rock	~~CDE~~ 20059.35VOC CDEMDMW ~~20059.90VOC~~ JR	2/10/09 12:26
VOC-170	Rock VOC	40 mL VOA	1	10-Feb-09 15:55	MeOH	MAE	VOCs Rock	20059.90VOC CDEMDMW ~~20062.15VOC~~ JR	12:28
VOC-171	Rock VOC	40 mL VOA	1	10-Feb-09 15:56	MeOH	MAE	VOCs Rock	20062.15VOC CDEMDMW ~~20063.90VOC~~ JR	12:31
VOC-172	Rock VOC	40 mL VOA	1	10-Feb-09 15:56	MeOH	MAE	VOCs Rock	20063.90VOC CDEMDMW ~~20065.60VOC~~ JR	14:29
VOC-173	Rock VOC	40 mL VOA	1	10-Feb-09 15:56	MeOH	MAE	VOCs Rock	20065.60VOC CDEMDMW ~~20066.70VOC~~ JR	14:34
VOC-174	Rock VOC	40 mL VOA	1	10-Feb-09 15:56	MeOH	MAE	VOCs Rock	CDEMDMW20066.70VOC	14:37
VOC-175	Rock VOC	40 mL VOA	1	10-Feb-09 15:56	MeOH	MAE	VOCs Rock	CDEMDMW20069.20VOC	15:48
VOC-176	Rock VOC	40 mL VOA	1	10-Feb-09 15:56	MeOH	MAE	VOCs Rock	CDEMDMW20070.40VOC	15:51
VOC-177	Rock VOC	40 mL VOA	1	10-Feb-09 15:56	MeOH	MAE	VOCs Rock	CDEMDMW20070.90VOC	15:54
VOC-178	Rock VOC	40 mL VOA	1	10-Feb-09 15:56	MeOH	MAE	VOCs Rock	CDEMDMW20072.15VOC	15:57

Relinquished By: Lee Rosberg 16:00	Date/Time:	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time: 2/10/09	On Ice:_____ Ice Packs:_____

Tuesday, February 10, 2009 Cooler ID 2 Page 1 of 1

R2-0016799

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	53S Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date/Time
VOC-179	Rock VOC	40 mL VOA	1	10-Feb-09 16:29	MeOH	MAE	VOCs Rock	CDEMDMW20074.55VOC	2/10/09 16:25
VOC-180	Rock VOC	40 mL VOA	1	10-Feb-09 16:29	MeOH	MAE	VOCs Rock	CDEMDMW20075.30VOC	16:27
VOC-181	Rock VOC	40 mL VOA	1	10-Feb-09 16:29	MeOH	MAE	VOCs Rock	CDEMDMW20076.85VOC	16:30

Relinquished By: Lee Rosberg 16:30	Date/Time:	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time: 2/10/09 MDR 2/10/09.	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date/Time
VOC-182	Rock VOC	40 mL VOA	1	11-Feb-09 10:58	MeOH	MAE	VOCs Rock	CDEMDMW20080.50VOC	2/11/09 09:50
VOC-183	Rock VOC	40 mL VOA	1	11-Feb-09 11:00	MeOH	MAE	VOCs Rock	CDEMDMW20084.20VOC	10:46
VOC-184	Rock VOC	40 mL VOA	1	11-Feb-09 11:00	MeOH	MAE	VOCs Rock	CDEMDMW20085.30VOC	10:49
VOC-185	Rock VOC	40 mL VOA	1	11-Feb-09 11:00	MeOH	MAE	VOCs Rock	CDEMDMW20086.50VOC	10:53

Relinquished By: Lee Rosberg	Date/Time: 2/11/09 11:15	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time: 2/11/09	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample date/Time 2/11/09
CDEMDMW20EB002	Equip Blank	40 mL VOA	1	11-Feb-09 12:42	MeOH	MAE	VOCs Rock	CDEMDMW20EB002	11:56
VOC-186	Rock VOC	40 mL VOA	1	11-Feb-09 12:40	MeOH	MAE	VOCs Rock	CDEMDMW20098.90VOC	11:43
VOC-187	Rock VOC	40 mL VOA	1	11-Feb-09 12:40	MeOH	MAE	VOCs Rock	CDEMDMW20090.20VOC	11:46
VOC-188	Rock VOC	40 mL VOA	1	11-Feb-09 12:41	MeOH	MAE	VOCs Rock	CDEMDMW2090.75VOC	11:49
VOC-189	Rock VOC	40 mL VOA	1	11-Feb-09 12:41	MeOH	MAE	VOCs Rock	CDEMDMW20FD002VOC	11:51
VOC-190	Rock VOC	40 mL VOA	1	11-Feb-09 12:41	MeOH	MAE	VOCs Rock	CDEMDMW20090.75VOCMS	11:52
VOC-191	Rock VOC	40 mL VOA	1	11-Feb-09 12:41	MeOH	MAE	VOCs Rock	CDEMDMW20091.80VOC	11:54
VOC-192	Rock VOC	40 mL VOA	1	11-Feb-09 13:17	MeOH	MAE	VOCs Rock	CDEMDMW20094.25VOC	13:11
VOC-193	Rock VOC	40 mL VOA	1	11-Feb-09 13:17	MeOH	MAE	VOCs Rock	CDEMDMW20095.70VOC	13:13
VOC-194	Rock VOC	40 mL VOA	1	11-Feb-09 13:18	MeOH	MAE	VOCs Rock	CDEMDMW20097.00VOC	13:15
VOC-195	Rock VOC	40 mL VOA	1	11-Feb-09 14:00	MeOH	MAE	VOCs Rock	CDEMDMW20099.10VOC	13:57
VOC-196	Rock VOC	40 mL VOA	1	11-Feb-09 14:02	MeOH	MAE	VOCs Rock	CDEMDMW20099.80VOC	13:59
VOC-197	Rock VOC	40 mL VOA	1	11-Feb-09 14:02	MeOH	MAE	VOCs Rock	CDEMDMW20 100.45VOC	14:01
VOC-198	Rock VOC	40 mL VOA	1	11-Feb-09 14:02	MeOH	MAE	VOCs Rock	CDEMDMW20 101.80VOC	14:04

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments

Relinquished By: Sue Rosberg	Date/Time: 2/11/09 14:15	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time: 2/11/09	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date / Time 2/11/09
CDEMDMW20EB003	Equip Blank	40 mL VOA	1	11-Feb-09 16:54	MeOH	MAE	VOCs Rock	CDEMDMW20EB003VOC	16:51
VOC-199	Rock VOC	40 mL VOA	1	11-Feb-09 15:23	MeOH	MAE	VOCs Rock	CDEMDMW20104.70VOC	14:36
VOC-200	Rock VOC	40 mL VOA	1	11-Feb-09 15:23	MeOH	MAE	VOCs Rock	CDEMDMW20 105.85VOC	14:40
VOC-201	Rock VOC	40 mL VOA	1	11-Feb-09 15:23	MeOH	MAE	VOCs Rock	CDEMDMW20106.45VOC	14:43
VOC-202	Rock VOC	40 mL VOA	1	11-Feb-09 15:22	MeOH	MAE	VOCs Rock	CDEMDMW20 109.40VOC	15:15
VOC-203	Rock VOC	40 mL VOA	1	11-Feb-09 15:22	MeOH	MAE	VOCs Rock	CDEMDMW20 110.65.VOC	15:18
VOC-204	Rock VOC	40 mL VOA	1	11-Feb-09 15:22	MeOH	MAE	VOCs Rock	CDEMDMW20 112.20.VOC	15:20
VOC-205	Rock VOC	40 mL VOA	1	11-Feb-09 15:52	MeOH	MAE	VOCs Rock	CDEMDMW20 113.80VOC	15:51
VOC-206	Rock VOC	40 mL VOA	1	11-Feb-09 15:53	MeOH	MAE	VOCs Rock	CDEMDMW20 115.50VOC	15:53
VOC-207	Rock VOC	40 mL VOA	1	11-Feb-09 15:53	MeOH	MAE	VOCs Rock	CDEMDMW20 116.80VOC	15:56
VOC-208	Rock VOC	40 mL VOA	1	11-Feb-09 16:53	MeOH	MAE	VOCs Rock	CDEMDMW20 118.50VOC	16:39
VOC-209	Rock VOC	40 mL VOA	1	11-Feb-09 16:53	MeOH	MAE	VOCs Rock	CDEMDMW20 120.00VOC	16:42
VOC-210	Rock VOC	40 mL VOA	1	11-Feb-09 16:53	MeOH	MAE	VOCs Rock	CDEMDMW20 120.70VOC	16:44
VOC-211	Rock VOC	40 mL VOA	1	11-Feb-09 16:53	MeOH	MAE	VOCs Rock	CDEMDMW20FD003VOC	16:45
VOC-212	Rock VOC	40 mL VOA	1	11-Feb-09 16:53	MeOH	MAE	VOCs Rock	CDEMDMW20 120.70VOCMS	16:46

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date / Time
VOC-213	Rock VOC	40 mL VOA	1	11-Feb-09 16:53	MeOH	MAE	VOCs Rock	CDEMDMW201213VOC	2/11/09 16:48

Relinquished By: [illegible]	Date/Time: 2/11/09 17:30	Sample Integrity: [illegible] 2/11/09
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By: [illegible]	Date/Time: 2/11/09	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date / Time
VOC-214	Equip Blank	40 mL VOA	1	11-Feb-09 17:26	MeOH	MAE	VOCs Rock	CDEMDMW20124.10VOC	2/11/09 17:17
VOC-215	Equip Blank	40 mL VOA	1	11-Feb-09 17:27	MeOH	MAE	VOCs Rock	CDEMDMW20125.80VOC	17:18
VOC-216	Equip Blank	40 mL VOA	1	11-Feb-09 17:27	MeOH	MAE	VOCs Rock	CDEMDMW20127.15VOC	17:21

Relinquished By:	See Rosberg	Date/Time:	2/11/09 18:00	Sample Integrity:	
Received By:		Date/Time:		Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:	2/11/09	On Ice:_____	Ice Packs:_____

Wednesday, February 11, 2009 Cooler ID 2 Page 1 of 1

R2-0016806

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date / Time
VOC-217	Rock VOC	40 mL VOA	1	12-Feb-09 8:42	MeOH	MAE	VOCs Rock	CDEMDMW20129.30VOC	2/12/09 09:40
VOC-218	Rock VOC	40 mL VOA	1	12-Feb-09 8:42	MeOH	MAE	VOCs Rock	CDEMDMW20130.45VOC	08:42
VOC-219	Rock VOC	40 mL VOA	1	12-Feb-09 8:42	MeOH	MAE	VOCs Rock	CDEMDMW20132.50VOC	08:46
VOC-220	Rock VOC	40 mL VOA	1	12-Feb-09 9:20	MeOH	MAE	VOCs Rock	CDEMDMW20134.90VOC	09:17
VOC-221	Rock VOC	40 mL VOA	1	12-Feb-09 9:20	MeOH	MAE	VOCs Rock	CDEMDMW20136.65VOC	09:20

Relinquished By:	Lee Rosberg	Date/Time:	2/12/09 09:30	Sample Integrity:	
Received By:		Date/Time:		Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:	2/12/09.	On Ice: ____ Ice Packs: ____	

Thursday, February 12, 2009 Cooler ID 1 Page 1 of 1

R2-0016807

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date/Time
CDEMDMW20EB004	Rock VOC	40 mL VOA	1	12-Feb-09 13:44	MeOH	MAE	VOCs Rock		2/12/09 13:18
VOC-222	Rock VOC	40 mL VOA	1	12-Feb-09 9:58	MeOH	MAE	VOCs Rock	CDEMDMW20139.40VOC	09:55
VOC-223	Rock VOC	40 mL VOA	1	12-Feb-09 9:58	MeOH	MAE	VOCs Rock	CDEMDMW20140.40VOC	09:58
VOC-224	Rock VOC	40 mL VOA	1	12-Feb-09 9:58	MeOH	MAE	VOCs Rock	CDEMDMW20142.60VOC DR	10:01
VOC-225	Rock VOC	40 mL VOA	1	12-Feb-09 11:14	MeOH	MAE	VOCs Rock	CDEMDMW20143.00VOC	10:41
VOC-226	Rock VOC	40 mL VOA	1	12-Feb-09 11:14	MeOH	MAE	VOCs Rock	CDEMDMW20145.50VOC	11:09
VOC-227	Rock VOC	40 mL VOA	1	12-Feb-09 11:14	MeOH	MAE	VOCs Rock	CDEMDMW20147.00VOC	11:11
VOC-228	Rock VOC	40 mL VOA	1	12-Feb-09 12:01	MeOH	MAE	VOCs Rock	CDEMDMW20149.30VOC	12:00
VOC-229	Rock VOC	40 mL VOA	1	12-Feb-09 12:01	MeOH	MAE	VOCs Rock	CDEMDMW20150.10VOC	12:03
VOC-230	Rock VOC	40 mL VOA	1	12-Feb-09 12:01	MeOH	MAE	VOCs Rock	CDEMDMW20152.00VOC	12:06
VOC-231	Rock VOC	40 mL VOA	1	12-Feb-09 13:34	MeOH	MAE	VOCs Rock	CDEMDMW20154.30VOC	13:27
VOC-232	Rock VOC	40 mL VOA	1	12-Feb-09 13:34	MeOH	MAE	VOCs Rock	CDEMDMW20156.15VOC	13:29
VOC-233	Rock VOC	40 mL VOA	1	12-Feb-09 13:34	MeOH	MAE	VOCs Rock	CDEMDMW20FD004VOC	13:31
VOC-235	Rock VOC	40 mL VOA	1	12-Feb-09 13:44	MeOH	MAE	VOCs Rock	CDEMDMW20157.20VOC	13:37
VOC-236	Rock VOC	40 mL VOA	1	12-Feb-09 13:44	MeOH	MAE	VOCs Rock	CDEMDMW20157.20VOCMS	13:39

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments

Relinquished By: See Rosberg		Date/Time: 2/12/09 14:30	Sample Integrity:
Received By:		Date/Time:	Temperature:
Relinquished By:		Date/Time:	In Tact:
Received By:		Date/Time: 2/12/09	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample NAME	Sample Date / Time
VOC-240	Rock VOC	40 mL VOA	1	12-Feb-09 15:01	MeOH	MAE	VOCs Rock	CDEMDMW20164.50VOC	2/12/08 14:58
VOC-241	Rock VOC	40 mL VOA	1	12-Feb-09 15:01	MeOH	MAE	VOCs Rock	CDEMDMW20166.70VOC	15:01
VOC-242	Rock VOC	40 mL VOA	1	12-Feb-09 15:35	MeOH	MAE	VOCs Rock	CDEMDMW20168.90VOC	15:34
VOC-243	Rock VOC	40 mL VOA	1	12-Feb-09 15:35	MeOH	MAE	VOCs Rock	CDEMDMW20170.40VOC	15:37
VOC-244	Rock VOC	40 mL VOA	1	12-Feb-09 15:35	MeOH	MAE	VOCs Rock	CDEMDMW20171.90VOC	15:39
VOC-247	Rock VOC	40 mL VOA	1	12-Feb-09 17:08	MeOH	MAE	VOCs Rock	CDEMDMW20172.40VOC ~~CDEMDMW20174.00VOC~~ LSR	17:06 2/12/08
VOC-248	Rock VOC	40 mL VOA	1	12-Feb-09 17:08	MeOH	MAE	VOCs Rock	CDEMDMW20180.70VOC ~~CDEMDMW20178.40VOC~~ LSR 2/12/08	17:09
VOC-249	Rock VOC	40 mL VOA	1	12-Feb-09 17:08	MeOH	MAE	VOCs Rock	CDEMDMW20182.40VOC ~~CDEMDMW20180.70VOC~~ LSR 2/12/08	17:11
VOC-250	Rock VOC	40 mL VOA	1	12-Feb-09 17:58	MeOH	MAE	VOCs Rock	CDEMDMW20184.65VOC ~~CDEMDMW20182.40VOC~~ LSR 2/12/08	17:54
VOC-251	Rock VOC	40 mL VOA	1	12-Feb-09 17:58	MeOH	MAE	VOCs Rock	CDEMDMW20187.60VOC ~~CDEMDMW20184.65VOC~~ LSR 2/12/08	17:57
VOC-~~445~~ 245 LSR 2/12/08	Rock VOC	40 mL VOA	1	12-Feb-09 16:22	MeOH	MAE	VOCs Rock	CDEMDMW20174.00VOC	16:20
VOC-~~446~~ 246 LSR 2/12/08	Rock VOC	40 mL VOA	1	12-Feb-09 16:22	MeOH	MAE	VOCs Rock	CDEMDMW20176.00VOC	16:23

Relinquished By: Lee Rosberg	Date/Time: 2/12/09 18:15	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time: 2/12/09	On Ice:_____ ice Packs:_____

Thursday, February 12, 2009 Cooler ID 4 Page 1 of 1

R2-0016810

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator			Shipper		
	Mike Rossi			Lee Rosberg		
Company	Stone Environmental, Inc.			Stone Environmental, Inc.		
Department	Laboratory			Investigation & Remediation		
Address	535 Stone Cutters Way			535 Stone Cutters Way		
Address (cont)	Montpelier	VT	05602	Montpelier	VT	05602
Phone	(802) 229-2194 x			(802) 309-1629		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date / Time
VOC-337	Rock VOC	40 mL VOA	1	12-Feb-09 14:12	MeOH	MAE	VOCs Rock	CDEMDMW20159.50VOC	2/12/09 14:11
VOC-338	Rock VOC	40 mL VOA	1	12-Feb-09 14:12	MeOH	MAE	VOCs Rock	CDEMDMW20161.00VOC	14:14
VOC-339	Rock VOC	40 mL VOA	1	12-Feb-09 14:13	MeOH	MAE	VOCs Rock	CDEMDMW20162.40VOC	14:17

Relinquished By: Lee Rosberg	Date/Time: 2/12/09 14:30	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time: 2/12/09	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	53S Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date/Time
MCDEMDMW20EB00	Rock VOC	40 mL VOA	1	13-Feb-09 9:32	MeOH	MAE	VOCs Rock	CDEMDMW20EB005VOC	2/13/09 08:37
VOC-252	Rock VOC	40 mL VOA	1	13-Feb-09 9:31	MeOH	MAE	VOCs Rock	CDEMDMW20188.70VOC	08:26
VOC-253	Rock VOC	40 mL VOA	1	13-Feb-09 9:31	MeOH	MAE	VOCs Rock	CDEMDMW20190.60VOC	08:26
VOC-254	Rock VOC	40 mL VOA	1	13-Feb-09 9:31	MeOH	MAE	VOCs Rock	CDEMDMW20192.30VOC	08:31
VOC-255	Rock VOC	40 mL VOA	1	13-Feb-09 9:31	MeOH	MAE	VOCs Rock	CDEMDMW20FD005VOC	08:33
VOC-256	Rock VOC	40 mL VOA	1	13-Feb-09 9:31	MeOH	MAE	VOCs Rock	CDEMDMW20192.30VOCMS	08:34
VOC-257	Rock VOC	40 mL VOA	1	13-Feb-09 9:32	MeOH	MAE	VOCs Rock	CDEMDMW20194.80VOC	09:21
VOC-258	Rock VOC	40 mL VOA	1	13-Feb-09 9:32	MeOH	MAE	VOCs Rock	CDEMDMW20197.10VOC	09:24
VOC-259	Rock VOC	40 mL VOA	1	13-Feb-09 10:11	MeOH	MAE	VOCs Rock	CDEMDMW20198.85VOC	10:05
VOC-260	Rock VOC	40 mL VOA	1	13-Feb-09 10:11	MeOH	MAE	VOCs Rock	CDEMDMW20200.50VOC	10:07
VOC-261	Rock VOC	40 mL VOA	1	13-Feb-09 10:11	MeOH	MAE	VOCs Rock	CDEMDMW20202.15VOC	10:10
VOC-262	Rock VOC	40 mL VOA	1	13-Feb-09 10:56	MeOH	MAE	VOCs Rock	CDEMDMW20204.90VOC	10:46
VOC-263	Rock VOC	40 mL VOA	1	13-Feb-09 10:56	MeOH	MAE	VOCs Rock	CDMDMW20206.50VOC	10:48

Relinquished By: Lee Rosberg	Date/Time: 2/13/09 12:00	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time: 2/13/09	On Ice:_____ Ice Packs:_____

Friday, February 13, 2009 Cooler ID 1 Page 1 of 1

R2-0016812

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Mike Rossi	Lee Rosberg
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department	Laboratory	Investigation & Remediation
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone	(802) 229-2194 x	(802) 309-1629

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Name	Sample Date/Time
VOC-264	Rock VOC	40 mL VOA	1	13-Feb-09 11:28	MeOH	MAE	VOCs Rock	CDEMDMW20209.30VOC	2/13/09 11:26
VOC-265	Rock VOC	40 mL VOA	1	13-Feb-09 11:28	MeOH	MAE	VOCs Rock	CDEMDMW20 210.55VOC	11:29
VOC-266	Rock VOC	40 mL VOA	1	13-Feb-09 11:29	MeOH	MAE	VOCs Rock	CDEMDMW20 211.80VOC	11:31
VOC-267	Rock VOC	40 mL VOA	1	13-Feb-09 13:13	MeOH	MAE	VOCs Rock	CDEMDMW20 214.55VOC	13:09
VOC-268	Rock VOC	40 mL VOA	1	13-Feb-09 13:14	MeOH	MAE	VOCs Rock	CDEMDMW20 217.20VOC	13:13
VOC-269	Rock VOC	40 mL VOA	1	13-Feb-09 14:26	MeOH	MAE	VOCs Rock	CDEMDMW20 219.70VOC	14:19
VOC-270	Rock VOC	40 mL VOA	1	13-Feb-09 14:26	MeOH	MAE	VOCs Rock	CDEMDMW20 221.55VOC	14:21
VOC-271	Rock VOC	40 mL VOA	1	13-Feb-09 14:26	MeOH	MAE	VOCs Rock	CDEMDMW20 222.30VOC	14:23
VOC-272	Rock VOC	40 mL VOA	1	13-Feb-09 15:04	MeOH	MAE	VOCs Rock	CDEMDMW20 224.80VOC	14:57
VOC-273	Rock VOC	40 mL VOA	1	13-Feb-09 15:04	MeOH	MAE	VOCs Rock	CDEMDMW20 227.30VOC	15:00

Relinquished By: Lee Rosberg	Date/Time: 2/13/09 15:20	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time: 2/17/09	On Ice:_____ Ice Packs:_____

Friday, February 13, 2009 Cooler ID 2 Page 1 of 1

R2-0016813

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments	Sample time
VOC-274 ES006	Rock VOC	40 mL VOA	1	16-Feb-09 11:06	MeOH	MAE	VOCs Rock		0835
VOC-275	Rock VOC	40 mL VOA	1	16-Feb-09 11:06	MeOH	MAE	VOCs Rock		0842
VOC-276	Rock VOC	40 mL VOA	1	16-Feb-09 11:06	MeOH	MAE	VOCs Rock		0848
VOC-277	Rock VOC	40 mL VOA	1	16-Feb-09 11:06	MeOH	MAE	VOCs Rock		0851
VOC-278 FD006	Rock VOC	40 mL VOA	1	16-Feb-09 11:06	MeOH	MAE	VOCs Rock		0852
VOC-279 MS	Rock VOC	40 mL VOA	1	16-Feb-09 11:06	MeOH	MAE	VOCs Rock		0856
VOC-280	Rock VOC	40 mL VOA	1	16-Feb-09 11:06	MeOH	MAE	VOCs Rock		0935
VOC-281	Rock VOC	40 mL VOA	1	16-Feb-09 11:07	MeOH	MAE	VOCs Rock		0938
VOC-282	Rock VOC	40 mL VOA	1	16-Feb-09 11:07	MeOH	MAE	VOCs Rock		1035
VOC-283	Rock VOC	40 mL VOA	1	16-Feb-09 11:07	MeOH	MAE	VOCs Rock		1038
VOC-284	Rock VOC	40 mL VOA	1	16-Feb-09 11:07	MeOH	MAE	VOCs Rock		1041

Relinquished By:	Date/Time: 2/16/09 1115	Sample Integrity:
Received By:	Date/Time: 2/16/09 1115	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice: _____ Ice Packs: _____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	~~Comments~~ Sample Time
VOC-285	Rock VOC	40 mL VOA	1	16-Feb-09 12:55	MeOH	MAE	VOCs Rock	1128
VOC-286	Rock VOC	40 mL VOA	1	16-Feb-09 12:55	MeOH	MAE	VOCs Rock	1130
VOC-287	Rock VOC	40 mL VOA	1	16-Feb-09 12:55	MeOH	MAE	VOCs Rock	1245
VOC-288	Rock VOC	40 mL VOA	1	16-Feb-09 12:55	MeOH	MAE	VOCs Rock	1248
VOC-289	Rock VOC	40 mL VOA	1	16-Feb-09 12:55	MeOH	MAE	VOCs Rock	1252

Relinquished By:	[illegible]	Date/Time:	2/16/09	Sample Integrity:	
Received By:	[illegible]	Date/Time:	2/16/09 0820 0605	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice: _____ Ice Packs: _____	

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	~~Comments~~ Sample Time
VOC-290	Rock VOC	40 mL VOA	1	16-Feb-09 16:01	MeOH	MAE	VOCs Rock	1518
VOC-291	Rock VOC	40 mL VOA	1	16-Feb-09 16:00	MeOH	MAE	VOCs Rock	1521
VOC-292	Rock VOC	40 mL VOA	1	16-Feb-09 16:00	MeOH	MAE	VOCs Rock	1558
VOC-293	Rock VOC	40 mL VOA	1	16-Feb-09 16:00	MeOH	MAE	VOCs Rock	1600

Relinquished By:	Date/Time: 2/16/09	Sample Integrity:
Received By:	Date/Time: 2/16/09 @ 0805	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

R2-0016816

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	53S Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments	Sample Time
VOC-294	Rock VOC	40 mL VOA	1	17-Feb-09 13:35	MeOH	MAE	VOCs Rock		1320
VOC-295	Rock VOC	40 mL VOA	1	17-Feb-09 13:35	MeOH	MAE	VOCs Rock		1327
VOC-296	Rock VOC	40 mL VOA	1	17-Feb-09 13:35	MeOH	MAE	VOCs Rock		1201
VOC-297	Rock VOC	40 mL VOA	1	17-Feb-09 13:36	MeOH	MAE	VOCs Rock		1204
VOC-298	Rock VOC	40 mL VOA	1	17-Feb-09 13:35	MeOH	MAE	VOCs Rock		1327

Relinquished By:		Date/Time:	2/17/09	Sample Integrity:	
Received By:		Date/Time:	2/17/09	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:_____	Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	~~Comments~~ SAMPLE TIME
VOC-299	Rock VOC	40 mL VOA	1	17-Feb-09 16:54	MeOH	MAE	VOCs Rock	1414
VOC-300	Rock VOC	40 mL VOA	1	17-Feb-09 16:54	MeOH	MAE	VOCs Rock	1417
VOC-301	Rock VOC	40 mL VOA	1	17-Feb-09 16:54	MeOH	MAE	VOCs Rock	1419
VOC-302	Rock VOC	40 mL VOA	1	17-Feb-09 16:54	MeOH	MAE	VOCs Rock	1419
VOC-303	Rock VOC	40 mL VOA	1	17-Feb-09 16:54	MeOH	MAE	VOCs Rock	1425
VOC-304	Rock VOC	40 mL VOA	1	17-Feb-09 16:54	MeOH	MAE	VOCs Rock	1427
VOC-305	Rock VOC	40 mL VOA	1	17-Feb-09 16:54	MeOH	MAE	VOCs Rock	1503
VOC-306	Rock VOC	40 mL VOA	1	17-Feb-09 16:54	MeOH	MAE	VOCs Rock	1506
VOC-307	Rock VOC	40 mL VOA	1	17-Feb-09 16:55	MeOH	MAE	VOCs Rock	1645
VOC-308	Rock VOC	40 mL VOA	1	17-Feb-09 16:55	MeOH	MAE	VOCs Rock	1647
VOC-309	Rock VOC	40 mL VOA	1	17-Feb-09 16:55	MeOH	MAE	VOCs Rock	1649

Relinquished By:	Date/Time: 2/17/09	Sample Integrity:
Received By:	Date/Time: 2/17/09 @ 0706 05	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Tuesday, February 17, 2009 Cooler ID 1 Page 1 of 1

R2-0016818

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments	SAMPLE Time
VOC-310	Rock VOC	40 mL VOA	1	18-Feb-09 12:02	MeOH	MAE	VOCs Rock		0952
VOC-311	Rock VOC	40 mL VOA	1	18-Feb-09 12:03	MeOH	MAE	VOCs Rock		0955
VOC-312	Rock VOC	40 mL VOA	1	18-Feb-09 12:03	MeOH	MAE	VOCs Rock		1103
VOC-313	Rock VOC	40 mL VOA	1	18-Feb-09 12:03	MeOH	MAE	VOCs Rock		1106
VOC-314	Rock VOC	40 mL VOA	1	18-Feb-09 12:03	MeOH	MAE	VOCs Rock		1109
VOC-315	Rock VOC	40 mL VOA	1	18-Feb-09 12:03	MeOH	MAE	VOCs Rock		1155
VOC-316	Rock VOC	40 mL VOA	1	18-Feb-09 12:03	MeOH	MAE	VOCs Rock		1157

Relinquished By:	Date/Time: 2/18/09	Sample Integrity:
Received By:	Date/Time: 2/18/09 1000 0900 05	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

R2-0016819

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments Sample Time
VOC-317	Rock VOC	40 mL VOA	1	18-Feb-09 14:41	MeOH	MAE	VOCs Rock	1336
VOC-318	Rock VOC	40 mL VOA	1	18-Feb-09 14:41	MeOH	MAE	VOCs Rock	1339
VOC-319	Rock VOC	40 mL VOA	1	18-Feb-09 14:41	MeOH	MAE	VOCs Rock	1432
VOC-320	Rock VOC	40 mL VOA	1	18-Feb-09 14:41	MeOH	MAE	VOCs Rock	1435
VOC-321	Rock VOC	40 mL VOA	1	18-Feb-09 14:41	MeOH	MAE	VOCs Rock	1437

Relinquished By:	Date/Time: 2/18/09	Sample Integrity:
Received By:	Date/Time: 2/18/09 @ 020608	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

R2-0016820

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments	SAMPLE Time
VOC-322	Rock VOC	40 mL VOA	1	18-Feb-09 16:39	MeOH	MAE	VOCs Rock		1539
VOC-323	Rock VOC	40 mL VOA	1	18-Feb-09 16:39	MeOH	MAE	VOCs Rock		1542
VOC-324	Rock VOC	40 mL VOA	1	18-Feb-09 16:39	MeOH	MAE	VOCs Rock		1543
VOC-325	Rock VOC	40 mL VOA	1	18-Feb-09 16:39	MeOH	MAE	VOCs Rock		1526
VOC-326	Rock VOC	40 mL VOA	1	18-Feb-09 16:39	MeOH	MAE	VOCs Rock		1546
VOC-327	Rock VOC	40 mL VOA	1	18-Feb-09 16:39	MeOH	MAE	VOCs Rock		1625
VOC-328	Rock VOC	40 mL VOA	1	18-Feb-09 16:39	MeOH	MAE	VOCs Rock		1628
VOC-329	Rock VOC	40 mL VOA	1	18-Feb-09 16:39	MeOH	MAE	VOCs Rock		1630

Relinquished By:	Date/Time: 2/18/09	Sample Integrity:
Received By:	Date/Time: 2/18/09 @ 0605	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

R2-0016821

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments	Sample Time
VOC-330	Rock VOC	40 mL VOA	1	19-Feb-09 10:31	MeOH	MAE	VOCs Rock		0905
VOC-331	Rock VOC	40 mL VOA	1	19-Feb-09 10:31	MeOH	MAE	VOCs Rock		0907
VOC-332	Rock VOC	40 mL VOA	1	19-Feb-09 10:31	MeOH	MAE	VOCs Rock		1022
VOC-333	Rock VOC	40 mL VOA	1	19-Feb-09 10:31	MeOH	MAE	VOCs Rock		1024
VOC-334	Rock VOC	40 mL VOA	1	19-Feb-09 10:31	MeOH	MAE	VOCs Rock		1026
VOC-335	Rock VOC	40 mL VOA	1	19-Feb-09 11:26	MeOH	MAE	VOCs Rock		1119
VOC-336	Rock VOC	40 mL VOA	1	19-Feb-09 11:26	MeOH	MAE	VOCs Rock		1122

Relinquished By:	[signature]	Date/Time:	2/19/09	Sample Integrity:	
Received By:	[signature]	Date/Time:	2/19/09 1000	Temperature:	90605
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice: _____ Ice Packs: _____	

Thursday, February 19, 2009 Cooler ID 1 Page 1 of 1

R2-0016822

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments SAMPLE Time
VOC-337	Rock VOC	40 mL VOA	1	19-Feb-09 16:25	MeOH	MAE	VOCs Rock	1426
VOC-338	Rock VOC	40 mL VOA	1	19-Feb-09 16:25	MeOH	MAE	VOCs Rock	1428
VOC-339	Rock VOC	40 mL VOA	1	19-Feb-09 16:25	MeOH	MAE	VOCs Rock	1430
VOC-341	Rock VOC	40 mL VOA	1	19-Feb-09 16:25	MeOH	MAE	VOCs Rock	1528
VOC-342	Rock VOC	40 mL VOA	1	19-Feb-09 16:25	MeOH	MAE	VOCs Rock	1615
VOC-343	Rock VOC	40 mL VOA	1	19-Feb-09 16:25	MeOH	MAE	VOCs Rock	1617
VOC-344	Rock VOC	40 mL VOA	1	19-Feb-09 16:25	MeOH	MAE	VOCs Rock	1620

Relinquished By:		Date/Time: 2/19/09	Sample Integrity:
Received By:		Date/Time: 2/19/09 @ 0906	Temperature:
Relinquished By:		Date/Time:	In Tact:
Received By:		Date/Time:	On Ice: _____ Ice Packs: _____

VOC 340	Rock VOC	40 mL VOA	1	19-Feb-09 1625	MeOH	MAE	VOC Rock	1525

Thursday, February 19, 2009 Cooler ID 1 Page 1 of 1

R2-0016823

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments	Sample Time
VOC-356	Rock VOC	40 mL VOA	1	20-Feb-09 14:23	MeOH	MAE	VOCs Rock		1306
VOC-357	Rock VOC	40 mL VOA	1	20-Feb-09 14:23	MeOH	MAE	VOCs Rock		1309
VOC-358	Rock VOC	40 mL VOA	1	20-Feb-09 14:23	MeOH	MAE	VOCs Rock		1406
VOC-359	Rock VOC	40 mL VOA	1	20-Feb-09 14:23	MeOH	MAE	VOCs Rock		1409
VOC-360	Rock VOC	40 mL VOA	1	20-Feb-09 14:23	MeOH	MAE	VOCs Rock		1411
VOC-361	Rock VOC	40 mL VOA	1	20-Feb-09 15:00	MeOH	MAE	VOCs Rock		1456
VOC-362	Rock VOC	40 mL VOA	1	20-Feb-09 15:00	MeOH	MAE	VOCs Rock		1458

Relinquished By:	[illegible]	Date/Time:	2/20/09	Sample Integrity:	
Received By:	[illegible]	Date/Time:	2/20/09 @ 0900	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:_____	Ice Packs:_____

Friday, February 20, 2009 Cooler ID 1 Page 1 of 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	53S Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments AWCE Time
VOC-345	Rock VOC	40 mL VOA	1	20-Feb-09 10:40	MeOH	MAE	VOCs Rock	0934
VOC-346	Rock VOC	40 mL VOA	1	20-Feb-09 10:40	MeOH	MAE	VOCs Rock	0935
VOC-347	Rock VOC	40 mL VOA	1	20-Feb-09 10:40	MeOH	MAE	VOCs Rock	0936
VOC-348	Rock VOC	40 mL VOA	1	20-Feb-09 10:40	MeOH	MAE	VOCs Rock	0916
VOC-349	Rock VOC	40 mL VOA	1	20-Feb-09 10:41	MeOH	MAE	VOCs Rock	0939
VOC-350	Rock VOC	40 mL VOA	1	20-Feb-09 10:41	MeOH	MAE	VOCs Rock	1030
VOC-351	Rock VOC	40 mL VOA	1	20-Feb-09 10:41	MeOH	MAE	VOCs Rock	1032
VOC-352	Rock VOC	40 mL VOA	1	20-Feb-09 10:41	MeOH	MAE	VOCs Rock	1034
VOC-353	Rock VOC	40 mL VOA	1	20-Feb-09 11:34	MeOH	MAE	VOCs Rock	1128
VOC-354	Rock VOC	40 mL VOA	1	20-Feb-09 11:34	MeOH	MAE	VOCs Rock	1130
VOC-355	Rock VOC	40 mL VOA	1	20-Feb-09 11:34	MeOH	MAE	VOCs Rock	1132

Relinquished By:	[signature]	Date/Time:	2/20/09	Sample Integrity:	
Received By:	[signature]	Date/Time:	2/20/09 (10) 090205	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:_____	Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-364	Rock VOC	40 mL VOA	1	23-Feb-09 10:38	MeOH	MAE	VOCs Rock	0930
VOC-365	Rock VOC	40 mL VOA	1	23-Feb-09 10:38	MeOH	MAE	VOCs Rock	932
VOC-366	Rock VOC	40 mL VOA	1	23-Feb-09 10:38	MeOH	MAE	VOCs Rock	935
VOC-367	Rock VOC	40 mL VOA	1	23-Feb-09 10:38	MeOH	MAE	VOCs Rock	1027
VOC-368	Rock VOC	40 mL VOA	1	23-Feb-09 10:39	MeOH	MAE	VOCs Rock	1023
VOC-369	Rock VOC	40 mL VOA	1	23-Feb-09 10:39	MeOH	MAE	VOCs Rock	1024
VOC-370	Rock VOC	40 mL VOA	1	23-Feb-09 10:39	MeOH	MAE	VOCs Rock	1025
VOC-371	Rock VOC	40 mL VOA	1	23-Feb-09 10:39	MeOH	MAE	VOCs Rock	1014
VOC-372	Rock VOC	40 mL VOA	1	23-Feb-09 11:39	MeOH	MAE	VOCs Rock	1122
VOC-373	Rock VOC	40 mL VOA	1	23-Feb-09 11:39	MeOH	MAE	VOCs Rock	1124
VOC-374	Rock VOC	40 mL VOA	1	23-Feb-09 11:40	MeOH	MAE	VOCs Rock	1127
VOC-375	Rock VOC	40 mL VOA	1	23-Feb-09 11:40	MeOH	MAE	VOCs Rock	1218
VOC-376	Rock VOC	40 mL VOA	1	23-Feb-09 11:40	MeOH	MAE	VOCs Rock	1221

Relinquished By:	Date/Time: 2/23/09	Sample Integrity:
Received By:	Date/Time: 2/23/09 ~28 6/5/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Monday, February 23, 2009 Cooler ID 1 Page 1 of 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-377	Rock VOC	40 mL VOA	1	23-Feb-09 15:32	MeOH	MAE	VOCs Rock	1419
VOC-378	Rock VOC	40 mL VOA	1	23-Feb-09 15:32	MeOH	MAE	VOCs Rock	1421
VOC-379	Rock VOC	40 mL VOA	1	23-Feb-09 15:33	MeOH	MAE	VOCs Rock	1423
VOC-380	Rock VOC	40 mL VOA	1	23-Feb-09 15:33	MeOH	MAE	VOCs Rock	1519
VOC-381	Rock VOC	40 mL VOA	1	23-Feb-09 15:33	MeOH	MAE	VOCs Rock	1522

Relinquished By: [illegible]	Date/Time: 2/23/09	Sample Integrity:
Received By: [illegible]	Date/Time: 2/23/09 [illegible]	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Monday, February 23, 2009 Cooler ID 1 Page 1 of 1

R2-0016827

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 0S602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	S3S Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments	Time
VOC-382	Rock VOC	40 mL VOA	1	23-Feb-09 16:18	MeOH	MAE	VOCs Rock		1610
VOC-383	Rock VOC	40 mL VOA	1	23-Feb-09 16:18	MeOH	MAE	VOCs Rock		1612
VOC-384	Rock VOC	40 mL VOA	1	23-Feb-09 16:18	MeOH	MAE	VOCs Rock		1614

Relinquished By:	[signature]	Date/Time:	2/23/09	Sample Integrity:	
Received By:	[signature]	Date/Time:	2/23/09	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:_____ Ice Packs:_____	

Monday, February 23, 2009 Cooler ID 1 Page 1 of 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-385	Rock VOC	40 mL VOA	1	25-Feb-09 11:02	MeOH	MAE	VOCs Rock	0914
VOC-386	Rock VOC	40 mL VOA	1	25-Feb-09 11:02	MeOH	MAE	VOCs Rock	0945
VOC-387	Rock VOC	40 mL VOA	1	25-Feb-09 11:02	MeOH	MAE	VOCs Rock	1026
VOC-388	Rock VOC	40 mL VOA	1	25-Feb-09 11:02	MeOH	MAE	VOCs Rock	1029
VOC-389	Rock VOC	40 mL VOA	1	2S-Feb-09 11:02	MeOH	MAE	VOCs Rock	1032

Relinquished By:	[signature]	Date/Time:	2/25/09		Sample Integrity:
Received By:	[signature]	Date/Time:	2/25/09	1586/5/09	Temperature:
Relinquished By:		Date/Time:			In Tact:
Received By:		Date/Time:			On Ice: _____ Ice Packs: _____

Wednesday, February 25, 2009 Cooler ID 1

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-390	Rock VOC	40 mL VOA	1	25-Feb-09 12:42	MeOH	MAE	VOCs Rock	1138
VOC-392	Rock VOC	40 mL VOA	1	25-Feb-09 12:42	MeOH	MAE	VOCs Rock	1145
VOC-393	Rock VOC	40 mL VOA	1	25-Feb-09 12:42	MeOH	MAE	VOCs Rock	1234
VOC-394	Rock VOC	40 mL VOA	1	25-Feb-09 12:43	MeOH	MAE	VOCs Rock	1237
VOC-395	Rock VOC	40 mL VOA	1	25-Feb-09 12:43	MeOH	MAE	VOCs Rock	1239

Relinquished By:	[signature]	Date/Time:	2/25/09		Sample Integrity:
Received By:	[signature]	Date/Time:	2/25/09	MJS 6/5/09	Temperature:
Relinquished By:		Date/Time:			In Tact:
Received By:		Date/Time:			On Ice: _____ Ice Packs: _____

N' VIAL # 391

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-396	Rock VOC	40 mL VOA	1	25-Feb-09 16:49	MeOH	MAE	VOCs Rock	1424
VOC-397	Rock VOC	40 mL VOA	1	25-Feb-09 16:49	MeOH	MAE	VOCs Rock	1426
VOC-398	Rock VOC	40 mL VOA	1	25-Feb-09 16:49	MeOH	MAE	VOCs Rock	1525
VOC-399	Rock VOC	40 mL VOA	1	25-Feb-09 16:49	MeOH	MAE	VOCs Rock	1528
VOC-400	Rock VOC	40 mL VOA	1	25-Feb-09 16:49	MeOH	MAE	VOCs Rock	1615
VOC-401	Rock VOC	40 mL VOA	1	25-Feb-09 16:49	MeOH	MAE	VOCs Rock	1618
VOC-402	Rock VOC	40 mL VOA	1	25-Feb-09 16:49	MeOH	MAE	VOCs Rock	1620
VOC-403	Rock VOC	40 mL VOA	1	25-Feb-09 16:49	MeOH	MAE	VOCs Rock	1622
VOC-404	Rock VOC	40 mL VOA	1	25-Feb-09 16:49	MeOH	MAE	VOCs Rock	1610
VOC-405	Rock VOC	40 mL VOA	1	25-Feb-09 16:49	MeOH	MAE	VOCs Rock	1627
VOC-407	Rock VOC	40 mL VOA	1	25-Feb-09 17:17	MeOH	MAE	VOCs Rock	1709
VOC-408	Rock VOC	40 mL VOA	1	25-Feb-09 17:17	MeOH	MAE	VOCs Rock	1712

Relinquished By:	[signature]	Date/Time:	2/25/09	Sample Integrity:	
Received By:	[signature]	Date/Time:	2/25/09 [signature] 2/26/09	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:_____ Ice Packs:_____	

Wednesday, February 25, 2009 Cooler ID 1 Page 1 of 1

R2-0016831

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-409	Rock VOC	40 mL VOA	1	26-Feb-09 12:00	MeOH	MAE	VOCs Rock	0956
VOC-410	Rock VOC	40 mL VOA	1	26-Feb-09 12:00	MeOH	MAE	VOCs Rock	1000
VOC-411	Rock VOC	40 mL VOA	1	26-Feb-09 12:00	MeOH	MAE	VOCs Rock	1003
VOC-412	Rock VOC	40 mL VOA	1	26-Feb-09 12:00	MeOH	MAE	VOCs Rock	1102
VOC-413	Rock VOC	40 mL VOA	1	26-Feb-09 12:00	MeOH	MAE	VOCs Rock	1105
VOC-414	Rock VOC	40 mL VOA	1	26-Feb-09 12:00	MeOH	MAE	VOCs Rock	1108
VOC-415	Rock VOC	40 mL VOA	1	26-Feb-09 12:00	MeOH	MAE	VOCs Rock	1155
~~VOC-416~~ JCT 2/26	~~Rock VOC~~	~~40 mL VOA~~	~~1~~	~~26-Feb-09 12:00~~	~~MeOH~~	~~MAE~~	~~VOCs Rock~~	No sample
VOC-417	Rock VOC	40 mL VOA	1	26-Feb-09 12:00	MeOH	MAE	VOCs Rock	1158

Relinquished By:	[illegible]	Date/Time:	2/26/09	Sample Integrity:	
Received By:		Date/Time:		Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:	Ice Packs:

Rec'd & logged in 2/26/09. MJS

Thursday, February 26, 2009 Cooler ID 1 Page 1 of 1

R2-0016832

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 0S602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-418	Rock VOC	40 mL VOA	1	26-Feb-09 16:05	MeOH	MAE	VOCs Rock	1324
VOC-419	Rock VOC	40 mL VOA	1	26-Feb-09 16:05	MeOH	MAE	VOCs Rock	1328
VOC-420	Rock VOC	40 mL VOA	1	26-Feb-09 16:05	MeOH	MAE	VOCs Rock	1331
VOC-421	Rock VOC	40 mL VOA	1	26-Feb-09 16:05	MeOH	MAE	VOCs Rock	1409
VOC-422	Rock VOC	40 mL VOA	1	26-Feb-09 16:05	MeOH	MAE	VOCs Rock	1411
VOC-423	Rock VOC	40 mL VOA	1	26-Feb-09 16:05	MeOH	MAE	VOCs Rock	1414
VOC-425	Rock VOC	40 mL VOA	1	26-Feb-09 16:05	MeOH	MAE	VOCs Rock	1454
VOC-426	Rock VOC	40 mL VOA	1	26-Feb-09 16:05	MeOH	MAE	VOCs Rock	1456
VOC-427	Rock VOC	40 mL VOA	1	26-Feb-09 16:05	MeOH	MAE	VOCs Rock	1535
VOC-428	Rock VOC	40 mL VOA	1	26-Feb-09 16:05	MeOH	MAE	VOCs Rock	1535
VOC-429	Rock VOC	40 mL VOA	1	26-Feb-09 16:06	MeOH	MAE	VOCs Rock	1537
VOC-430	Rock VOC	40 mL VOA	1	26-Feb-09 16:06	MeOH	MAE	VOCs Rock	1523
VOC-431	Rock VOC	40 mL VOA	1	26-Feb-09 16:06	MeOH	MAE	VOCs Rock	1546
VOC-432	Rock VOC	40 mL VOA	1	26-Feb-09 16:06	MeOH	MAE	VOCs Rock	1542
VOC-433	Rock VOC	40 mL VOA	1	26-Feb-09 16:29	MeOH	MAE	VOCs Rock	1625

R2-0016833

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments	Time
VOC-434	Rock VOC	40 mL VOA	1	26-Feb-09 16:29	MeOH	MAE	VOCs Rock		1627

Relinquished By:	Date/Time: 2/26/09	Sample Integrity:
Received By:	Date/Time: 2/26/09 mjs 6/5/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator			Shipper		
	Vinny DeLeone			Vinny DeLeone		
Company	Stone Environmental, Inc.			Stone Environmental, Inc.		
Department						
Address	535 Stone Cutters Way			535 Stone Cutters Way		
Address (cont)	Montpelier	VT	05602	Montpelier	VT	05602
Phone						

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-435	Rock VOC	40 mL VOA	1	26-Feb-09 17:18	MeOH	MAE	VOCs Rock	1707
VOC-436	Rock VOC	40 mL VOA	1	26-Feb-09 17:18	MeOH	MAE	VOCs Rock	1709
VOC-437	Rock VOC	40 mL VOA	1	26-Feb-09 17:18	MeOH	MAE	VOCs Rock	1711

Relinquished By: [signature]	Date/Time: 2/26/09	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Rec'd & logged in 2/26/09 mjs

Thursday, February 26, 2009 Cooler ID 1 Page 1 of 1

R2-0016835

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	53S Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-438	Rock VOC	40 mL VOA	1	27-Feb-09 9:22	MeOH	MAE	VOCs Rock	0909
VOC-439	Rock VOC	40 mL VOA	1	27-Feb-09 9:22	MeOH	MAE	VOCs Rock	0911

Relinquished By: [illegible]	Date/Time: 2/27/09	Sample Integrity:
Received By:	Date/Time:	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Rec'd & logged in 2/27/09
[illegible]

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
S3S Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	53S Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-441	Rock VOC	40 mL VOA	1	27-Feb-09 11:40	MeOH	MAE	VOCs Rock	1004
VOC-442	Rock VOC	40 mL VOA	1	27-Feb-09 11:40	MeOH	MAE	VOCs Rock	1004
VOC-443	Rock VOC	40 mL VOA	1	27-Feb-09 11:40	MeOH	MAE	VOCs Rock	1008
VOC-444	Rock VOC	40 mL VOA	1	27-Feb-09 11:40	MeOH	MAE	VOCs Rock	1104
VOC-445	Rock VOC	40 mL VOA	1	27-Feb-09 11:40	MeOH	MAE	VOCs Rock	1108
VOC-446	Rock VOC	40 mL VOA	1	27-Feb-09 11:42	MeOH	MAE	VOCs Rock	1204
VOC-447	Rock VOC	40 mL VOA	1	27-Feb-09 11:42	MeOH	MAE	VOCs Rock	1208
VOC-448	Rock VOC	40 mL VOA	1	27-Feb-09 11:42	MeOH	MAE	VOCs Rock	1212

Relinquished By: [signature]	Date/Time: 2/27/09	Sample Integrity:
Received By: [signature]	Date/Time: 2/27/09 [signature] 6/5/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-450	Rock VOC	40 mL VOA	1	27-Feb-09 14:53	MeOH	MAE	VOCs Rock	1344
VOC-451	Rock VOC	40 mL VOA	1	27-Feb-09 14:53	MeOH	MAE	VOCs Rock	1346
VOC-452	Rock VOC	40 mL VOA	1	27-Feb-09 14:53	MeOH	MAE	VOCs Rock	1439
VOC-453	Rock VOC	40 mL VOA	1	27-Feb-09 14:53	MeOH	MAE	VOCs Rock	1440
VOC-454	Rock VOC	40 mL VOA	1	27-Feb-09 14:54	MeOH	MAE	VOCs Rock	1442
VOC-455	Rock VOC	40 mL VOA	1	27-Feb-09 14:54	MeOH	MAE	VOCs Rock	1430
VOC-456	Rock VOC	40 mL VOA	1	27-Feb-09 14:54	MeOH	MAE	VOCs Rock	1444
VOC-457	Rock VOC	40 mL VOA	1	27-Feb-09 14:54	MeOH	MAE	VOCs Rock	1446

Relinquished By:	Date/Time: 2/27/09	Sample Integrity:
Received By:	Date/Time: 2/27/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Friday, February 27, 2009 Cooler ID 1 Page 1 of 1

R2-0016838

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments
VOC-458	Rock VOC	40 mL VOA	1	02-Mar-09 11:48	MeOH	MAE	VOCs Rock	0937
VOC-459	Rock VOC	40 mL VOA	1	02-Mar-09 11:48	MeOH	MAE	VOCs Rock	0938
VOC-460	Rock VOC	40 mL VOA	1	02-Mar-09 11:48	MeOH	MAE	VOCs Rock	1033
VOC-461	Rock VOC	40 mL VOA	1	02-Mar-09 11:48	MeOH	MAE	VOCs Rock	1035
VOC-462	Rock VOC	40 mL VOA	1	02-Mar-09 11:48	MeOH	MAE	VOCs Rock	1039
VOC-463	Rock VOC	40 mL VOA	1	02-Mar-09 11:48	MeOH	MAE	VOCs Rock	1142
VOC-464	Rock VOC	40 mL VOA	1	02-Mar-09 11:48	MeOH	MAE	VOCs Rock	1145

Relinquished By:	[illegible]	Date/Time:	3/2/09	Sample Integrity:	
Received By:	[illegible]	Date/Time:	3/2/09 6/5/09	Temperature:	
Relinquished By:		Date/Time:		In Tact:	
Received By:		Date/Time:		On Ice:_____ Ice Packs:_____	

R2-0016839

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	Comments	Sample Time
VOC-465	Rock VOC	40 mL VOA	1	02-Mar-09 15:39	MeOH	MAE	VOCs Rock		1336
VOC-466	Rock VOC	40 mL VOA	1	02-Mar-09 15:40	MeOH	MAE	VOCs Rock		1338
VOC-467	Rock VOC	40 mL VOA	1	02-Mar-09 15:40	MeOH	MAE	VOCs Rock		1341
VOC-468	Rock VOC	40 mL VOA	1	02-Mar-09 15:40	MeOH	MAE	VOCs Rock		1434
VOC-469	Rock VOC	40 mL VOA	1	02-Mar-09 15:40	MeOH	MAE	VOCs Rock		1435
VOC-470	Rock VOC	40 mL VOA	1	02-Mar-09 15:40	MeOH	MAE	VOCs Rock		1529
VOC-471	Rock VOC	40 mL VOA	1	02-Mar-09 15:40	MeOH	MAE	VOCs Rock		1531
VOC-472	Rock VOC	40 mL VOA	1	02-Mar-09 15:40	MeOH	MAE	VOCs Rock		1533

Relinquished By: [signature]	Date/Time: 3/2/09	Sample Integrity:
Received By: [signature]	Date/Time: 3/2/09 mje 6/5/09	Temperature:
Relinquished By:	Date/Time:	In Tact:
Received By:	Date/Time:	On Ice:_____ Ice Packs:_____

Project Name: MPICDENJ South Plainfield

Chain of Custody

Stone Environmental
535 Stone Cutters Way
Montpelier, VT 05602

	Primary Investigator	Shipper
	Vinny DeLeone	Vinny DeLeone
Company	Stone Environmental, Inc.	Stone Environmental, Inc.
Department		
Address	535 Stone Cutters Way	535 Stone Cutters Way
Address (cont)	Montpelier VT 05602	Montpelier VT 05602
Phone		

Sample ID	Sample Type	Container Type	# Containers	Packing Date/Time	Sample Preservative	VOC Extraction	Analyses Required	~~Comments~~ Sample Time
VOC-473	Rock VOC	40 mL VOA	1	03-Mar-09 12:17	MeOH	MAE	VOCs Rock	0925
VOC-474	Rock VOC	40 mL VOA	1	03-Mar-09 12:17	MeOH	MAE	VOCs Rock	0927
VOC-476	Rock VOC	40 mL VOA	1	03-Mar-09 12:17	MeOH	MAE	VOCs Rock	1038
VOC-477	Rock VOC	40 mL VOA	1	03-Mar-09 12:17	MeOH	MAE	VOCs Rock	1039
VOC-478	Rock VOC	40 mL VOA	1	03-Mar-09 12:18	MeOH	MAE	VOCs Rock	1040
VOC-479	Rock VOC	40 mL VOA	1	03-Mar-09 12:18	MeOH	MAE	VOCs Rock	1043
VOC-481	Rock VOC	40 mL VOA	1	03-Mar-09 12:18	MeOH	MAE	VOCs Rock	1042
VOC-482	Rock VOC	40 mL VOA	1	03-Mar-09 12:18	MeOH	MAE	VOCs Rock	1045
VOC-483	Rock VOC	40 mL VOA	1	03-Mar-09 12:18	MeOH	MAE	VOCs Rock	1156
VOC-484	Rock VOC	40 mL VOA	1	03-Mar-09 12:18	MeOH	MAE	VOCs Rock	1159
VOC-485	Rock VOC	40 mL VOA	1	03-Mar-09 12:18	MeOH	MAE	VOCs Rock	1200
VOC-486	Rock VOC	40 mL VOA	1	03-Mar-09 12:18	MeOH	MAE	VOCs Rock	1202
VOC-487	Rock VOC	40 mL VOA	1	03-Mar-09 12:18	MeOH	MAE	VOCs Rock	1150

Relinquished By:		Date/Time: 3/3/09		Sample Integrity:
Received By:		Date/Time: 3/3/09	6/5/09	Temperature:
Relinquished By:		Date/Time:		In Tact:
Received By:		Date/Time:		On Ice:_____ Ice Packs:_____

Tuesday, March 03, 2009 Cooler ID 1

Sample Login Summary

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedE	CollectedDate	CollectedTim	ectionMe	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID	Parent
SEI-152	CDEMDMW14-1	023.30	Rock	CDEMDMW14023.30VOC	Normal Sample	vld	2/5/2009	4:25 PM	Grab	bmh	2/5/2009	4:45 PM			
SEI-153	CDEMDMW14-1	024.80	Rock	CDEMDMW14024.80VOC	Normal Sample	vld	2/5/2009	4:25 PM	Grab	bmh	2/5/2009	4:45 PM			
SEI-154	CDEMDMW14-1	026.40	Rock	CDEMDMW14026.40VOC	Normal Sample	vld	2/5/2009	4:25 PM	Grab	bmh	2/5/2009	4:45 PM			
SEI-155	CDEMDMW14-1	027.65	Rock	CDEMDMW14027.65VOC	Normal Sample	vld	2/5/2009	4:25 PM	Grab	bmh	2/5/2009	4:45 PM			
SEI-156	CDEMDMW14-1	030.60	Rock	CDEMDMW14030.60VOC	Normal Sample	vld	2/5/2009	4:25 PM	Grab	bmh	2/5/2009	4:45 PM			
SEI-157	CDEMDMW14-1	033.00	Rock	CDEMDMW14033.00VOC	Normal Sample	vld	2/5/2009	4:25 PM	Grab	bmh	2/5/2009	4:45 PM			
SEI-158	CDEMDMW14mb	000.01	I Extract	CDEMDMW14mb001	Normal Sample	vld	2/5/2009	8:00 AM	Grab	bmh	2/5/2009	8:11 AM	cv200 #2		
SEI-159	CDEMDMW14mb	000.02	I Extract	CDEMDMW14mb002	Normal Sample	vld	2/5/2009	8:00 AM	Grab	bmh	2/5/2009	8:15 AM	lot cv002 #3		
SEI-160	CDEMDMW14-1	035.70	Rock	CDEMDMW14035.70VOC	Normal Sample	VLD	2/6/2009	12:01 PM	Grab	BMH	2/6/2009	12:33 PM			
SEI-161	CDEMDMW14-1	036.90	Rock	CDEMDMW14036.90VOC	Normal Sample	VLD	2/6/2009	12:01 PM	Grab	BMH	2/6/2009	12:36 PM			
SEI-162	CDEMDMW14-1	038.50	Rock	CDEMDMW14038.50VOC	Normal Sample	VLD	2/6/2009	12:01 PM	Grab	BMH	2/6/2009	12:37 PM			
SEI-163	CDEMDMW14-1	040.80	Rock	CDEMDMW14040.80VOC	Normal Sample	VLD	2/6/2009	12:01 PM	Grab	BMH	2/6/2009	12:38 PM			
SEI-164	CDEMDMW14-1	043.20	Rock	CDEMDMW14043.20VOC	Normal Sample	VLD	2/6/2009	12:02 PM	Grab	BMH	2/6/2009	12:39 PM			
SEI-165	CDEMDMW14-1	044.40	Rock	CDEMDMW14044.40VOC	Normal Sample	VLD	2/6/2009	12:02 PM	Grab	BMH	2/6/2009	12:40 PM			
SEI-166	CDEMDMW14-1	046.50	Rock	CDEMDMW14046.50VOC	Normal Sample	VLD	2/6/2009	12:02 PM	Grab	BMH	2/6/2009	12:41 PM			
SEI-167	CDEMDMW14-1	047.60	Rock	CDEMDMW14047.60VOC	Normal Sample	VLD	2/6/2009	12:02 PM	Grab	BMH	2/6/2009	12:42 PM			
SEI-168	CDEMDMW14-1	050.65	Rock	CDEMDMW14050.65VOC	Normal Sample	vld	2/6/2009	4:45 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-169	CDEMDMW14-1	052.60	Rock	CDEMDMW14052.60VOC	Normal Sample	vld	2/6/2009	4:45 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-170	CDEMDMW14-1	055.00	Rock	CDEMDMW14055.00VOC	Normal Sample	vld	2/6/2009	4:45 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-171	CDEMDMW14-1	057.00	Rock	CDEMDMW14057.00VOC	Normal Sample	vld	2/6/2009	4:45 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-172	CDEMDMW14-1	058.20	Rock	CDEMDMW14058.20VOC	Normal Sample	vld	2/6/2009	4:45 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-173	CDEMDMW14-1	059.80	Rock	CDEMDMW14059.80VOC	Normal Sample	vld	2/6/2009	4:45 PM	Grab	bmh	2/6/2009	5:15 PM		SEI-173	
SEI-173-MS	CDEMDMW14-1	059.80	Rock	CDEMDMW14059.80VOC-MS	Matrix Spike	vld	2/6/2009	4:45 PM	Grab	bmh	2/6/2009	5:15 PM		SEI-173	
SEI-174	CDEMDMW14FD	000.01	Rock	CDEMDMW14FD001VOC	Field Duplicate	vld	2/6/2009	4:45 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-178	CDEMDMW14-2	061.50	Rock	CDEMDMW14061.50VOC	Normal Sample	vld	2/6/2009	4:46 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-179	CDEMDMW14-2	064.70	Rock	CDEMDMW14064.70VOC	Normal Sample	vld	2/6/2009	4:46 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-180	CDEMDMW14-2	066.50	Rock	CDEMDMW14066.50VOC	Normal Sample	vld	2/6/2009	4:46 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-181	CDEMDMW14-2	067.80	Rock	CDEMDMW14067.80VOC	Normal Sample	vld	2/6/2009	4:46 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-182	CDEMDMW14EB	000.01	I Extract	CDEMDMW14EB001VOC	Equipment Blank	vld	2/6/2009	4:46 PM	Grab	bmh	2/6/2009	5:15 PM			
SEI-447	CDEMDMW14-2	074.00	Rock	CDEMDMW14074.00VOC	Normal Sample	vld	2/25/2009	9:14 AM	Grab	bmh	2/25/2009	1:01 PM			
SEI-448	CDEMDMW14-2	075.90	Rock	CDEMDMW14075.90VOC	Normal Sample	vld	2/25/2009	9:15 AM	Grab	bmh	2/25/2009	1:03 PM			
SEI-449	CDEMDMW14-2	079.20	Rock	CDEMDMW14079.20VOC	Normal Sample	vld	2/25/2009	10:26 AM	Grab	bmh	2/25/2009	1:04 PM			
SEI-450	CDEMDMW14-2	080.30	Rock	CDEMDMW14080.30VOC	Normal Sample	vld	2/25/2009	10:29 AM	Grab	bmh	2/25/2009	1:05 PM			
SEI-451	CDEMDMW14-2	082.50	Rock	CDEMDMW14082.50VOC	Normal Sample	vld	2/25/2009	10:32 AM	Grab	bmh	2/25/2009	1:07 PM			
SEI-452	CDEMDMW14-2	083.70	Rock	CDEMDMW14083.70VOC	Normal Sample	vld	2/25/2009	11:38 AM	Grab	bmh	2/25/2009	1:08 PM			
SEI-453	CDEMDMW14-2	085.80	Rock	CDEMDMW14085.80VOC	Normal Sample	vld	2/25/2009	11:45 AM	Grab	bmh	2/25/2009	1:10 PM			
SEI-454	CDEMDMW14-2	089.00	Rock	CDEMDMW14089.00VOC	Normal Sample	vld	2/25/2009	12:34 PM	Grab	bmh	2/25/2009	1:11 PM			
SEI-455	CDEMDMW14-2	090.50	Rock	CDEMDMW14090.50VOC	Normal Sample	vld	2/25/2009	12:37 PM	Grab	bmh	2/25/2009	1:15 PM			
SEI-456	CDEMDMW14-2	091.80	Rock	CDEMDMW14091.80VOC	Normal Sample	vld	2/25/2009	12:39 PM	Grab	bmh	2/25/2009	1:16 PM			
SEI-457	CDEMDMW14-2	094.80	Rock	CDEMDMW14094.80VOC	Normal Sample	vld	2/25/2009	2:26 PM	Grab	mjg	2/26/2009	7:41 AM			
SEI-458	CDEMDMW14-2	096.70	Rock	CDEMDMW14096.70VOC	Normal Sample	vld	2/25/2009	2:26 PM	Grab	mjg	2/26/2009	7:47 AM			
SEI-459	CDEMDMW14-2	099.00	Rock	CDEMDMW14099.00VOC	Normal Sample	vld	2/25/2009	3:25 PM	Grab	mjg	2/26/2009	7:48 AM			
SEI-460	CDEMDMW14-2	101.00	Rock	CDEMDMW14101.00VOC	Normal Sample	vld	2/25/2009	3:28 PM	Grab	mjg	2/26/2009	7:49 AM			
SEI-461	CDEMDMW14-2	104.10	Rock	CDEMDMW14104.10VOC	Normal Sample	vld	2/25/2009	4:15 PM	Grab	mjg	2/26/2009	7:50 AM			
SEI-462	CDEMDMW14-3	105.60	Rock	CDEMDMW14105.60VOC	Normal Sample	vld	2/25/2009	4:18 PM	Grab	mjg	2/26/2009	7:51 AM		SEI-462	
SEI-462-MS	CDEMDMW14-3	105.60	Rock	CDEMDMW14105.60VOC-MS	Matrix Spike	vld	2/25/2009	4:22 PM	Grab	mjg	2/26/2009	7:51 AM		SEI-462	
SEI-463	CDEMDMW14EB	000.02	I Extract	CDEMDMW14EB002VOC	Equipment Blank	vld	2/25/2009	4:10 PM	Grab	mjg	2/26/2009	7:53 AM			
SEI-466	CDEMDMW14FD	000.02	Rock	CDEMDMW14FD002VOC	Field Duplicate	vld	2/25/2009	4:20 PM	Grab	mjg	2/26/2009	8:02 AM			
SEI-468	CDEMDMW14-3	106.60	Rock	CDEMDMW14106.60VOC	Normal Sample	vld	2/25/2009	4:24 PM	Grab	mjg	2/26/2009	8:04 AM			
SEI-469	CDEMDMW14-3	108.80	Rock	CDEMDMW14108.80VOC	Normal Sample	vld	2/25/2009	5:09 PM	Grab	mjg	2/26/2009	8:07 AM			
SEI-470	CDEMDMW14-3	111.50	Rock	CDEMDMW14111.50VOC	Normal Sample	vld	2/25/2009	5:12 PM	Grab	mjg	2/26/2009	8:08 AM			
SEI-472	CDEMDMW14-3	114.20	Rock	CDEMDMW14114.20VOC	Normal Sample	vld	2/26/2009	9:56 AM	Grab	mjg	2/26/2009	12:19 PM		SEI-472	
SEI-472-LD	CDEMDMW14-3	114.20	Rock	CDEMDMW14114.20VOC-LD	Lab Dup	vld	2/26/2009	9:56 AM	Grab	mjg	2/26/2009	12:19 PM		SEI-472	
SEI-473	CDEMDMW14-3	115.70	Rock	CDEMDMW14115.70VOC	Normal Sample	vld	2/26/2009	10:00 AM	Grab	mjg	2/26/2009	12:21 PM			

R2-0016842

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedB	CollectedDate	CollectedTim	ectionMet	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID_Parent
SEI-474	CDEMDMW14-3	117.60	Rock	CDEMDMW14117.60VOC	Normal Sample	vld	2/26/2009	10:03 AM	Grab	mjg	2/26/2009	12:22 PM		
SEI-475	CDEMDMW14-3	118.50	Rock	CDEMDMW14118.50VOC	Normal Sample	vld	2/26/2009	11:02 AM	Grab	mjg	2/26/2009	12:23 PM		
SEI-476	CDEMDMW14-3	120.50	Rock	CDEMDMW14120.50VOC	Normal Sample	vld	2/26/2009	11:05 AM	Grab	mjg	2/26/2009	12:24 PM		
SEI-477	CDEMDMW14-3	122.40	Rock	CDEMDMW14122.40VOC	Normal Sample	vld	2/26/2009	11:08 AM	Grab	mjg	2/26/2009	12:25 PM		
SEI-478	CDEMDMW14-3	124.80	Rock	CDEMDMW14124.80VOC	Normal Sample	vld	2/26/2009	11:55 AM	Grab	mjg	2/26/2009	12:26 PM		
SEI-479	CDEMDMW14-3	127.30	Rock	CDEMDMW14127.30VOC	Normal Sample	vld	2/26/2009	11:58 AM	Grab	mjg	2/26/2009	12:27 PM		
SEI-480	CDEMDMW14-3	128.50	Rock	CDEMDMW14128.50VOC	Normal Sample	vld	2/26/2009	1:24 PM	Grab	bmh	2/26/2009	4:46 PM		
SEI-481	CDEMDMW14-3	129.50	Rock	CDEMDMW14129.50VOC	Normal Sample	vld	2/26/2009	1:25 PM	Grab	bmh	2/26/2009	4:48 PM		
SEI-482	CDEMDMW14-3	131.90	Rock	CDEMDMW14131.90VOC	Normal Sample	vld	2/26/2009	1:31 PM	Grab	bmh	2/26/2009	4:49 PM		
SEI-483	CDEMDMW14-3	134.00	Rock	CDEMDMW14134.00VOC	Normal Sample	vld	2/26/2009	2:09 PM	Grab	bmh	2/26/2009	4:50 PM		SEI-483
SEI-483-LD	CDEMDMW14-3	134.00	Rock	CDEMDMW14134.00VOC-LD	Lab Dup	vld	2/26/2009	2:09 PM	Grab	bmh	2/26/2009	4:50 PM		SEI-483
SEI-484	CDEMDMW14-3	135.30	Rock	CDEMDMW14135.30VOC	Normal Sample	vld	2/26/2009	2:11 PM	Grab	bmh	2/26/2009	4:50 PM		
SEI-485	CDEMDMW14-3	136.90	Rock	CDEMDMW14136.90VOC	Normal Sample	vld	2/26/2009	2:14 PM	Grab	bmh	2/26/2009	4:51 PM		
SEI-486	CDEMDMW14-3	138.80	Rock	CDEMDMW14138.80VOC	Normal Sample	vld	2/26/2009	2:54 PM	Grab	bmh	2/26/2009	4:52 PM		
SEI-487	CDEMDMW14-4	141.80	Rock	CDEMDMW14141.80VOC	Normal Sample	vld	2/26/2009	2:56 PM	Grab	bmh	2/26/2009	4:52 PM		
SEI-488	CDEMDMW14-4	143.40	Rock	CDEMDMW14143.40VOC	Normal Sample	vld	2/26/2009	3:35 PM	Grab	bmh	2/26/2009	4:53 PM		SEI-488
SEI-488-MS	CDEMDMW14-4	143.40	Rock	CDEMDMW14143.40VOC-MS	Matrix Spike	vld	2/26/2009	3:35 PM	Grab	bmh	2/26/2009	4:53 PM		SEI-488
SEI-489	CDEMDMW14FD	000.03	Rock	CDEMDMW14FD003VOC	Field Duplicate	vld	2/26/2009	3:35 PM	Grab	bmh	2/26/2009	4:54 PM		
SEI-492	CDEMDMW14EB	000.03	I Extract	CDEMDMW14EB003VOC	Equipment Blank	vld	2/26/2009	3:23 PM	Grab	bmh	2/26/2009	5:00 PM		
SEI-493	CDEMDMW14-4	145.50	Rock	CDEMDMW14145.50VOC	Normal Sample	vld	2/26/2009	3:40 PM	Grab	bmh	2/26/2009	5:01 PM		
SEI-494	CDEMDMW14-4	146.70	Rock	CDEMDMW14146.70VOC	Normal Sample	vld	2/26/2009	3:42 PM	Grab	bmh	2/26/2009	5:02 PM		
SEI-495	CDEMDMW14-4	150.10	Rock	CDEMDMW14150.10VOC	Normal Sample	vld	2/26/2009	4:25 PM	Grab	bmh	2/26/2009	5:03 PM		
SEI-496	CDEMDMW14-4	152.80	Rock	CDEMDMW14152.80VOC	Normal Sample	vld	2/26/2009	4:27 PM	Grab	bmh	2/26/2009	5:04 PM		
SEI-497	CDEMDMW14-4	154.00	Rock	CDEMDMW14154.00VOC	Normal Sample	vld	2/26/2009	5:07 PM	Grab	mjg	2/26/2009	6:06 PM		
SEI-498	CDEMDMW14-4	155.00	Rock	CDEMDMW14155.00VOC	Normal Sample	vld	2/26/2009	5:09 PM	Grab	mjg	2/26/2009	6:08 PM		
SEI-499	CDEMDMW14-4	157.70	Rock	CDEMDMW14157.70VOC	Normal Sample	vld	2/26/2009	5:11 PM	Grab	mjg	2/26/2009	6:10 PM		
SEI-500	CDEMDMW20MB	000.03	I Extract	CDEMDMW14MB03	Normal Sample	mjg	2/26/2009	6:23 PM	Grab	mjg	2/26/2009	6:25 PM		
SEI-504	CDEMDMW14-4	159.20	Rock	CDEMDMW14159.20VOC	Normal Sample	vld	2/27/2009	9:09 AM	Grab	mjg	2/27/2009	9:34 AM		
SEI-505	CDEMDMW14-4	161.10	Rock	CDEMDMW14161.10VOC	Normal Sample	vld	2/27/2009	9:11 AM	Grab	mjg	2/27/2009	9:36 AM		
SEI-506	CDEMDMW14-4	164.30	Rock	CDEMDMW14164.30VOC	Normal Sample	vld	2/27/2009	10:04 AM	Grab	bmh	2/27/2009	3:07 PM		
SEI-507	CDEMDMW14-4	165.50	Rock	CDEMDMW14165.50VOC	Normal Sample	vld	2/27/2009	10:06 AM	Grab	bmh	2/27/2009	3:09 PM		
SEI-508	CDEMDMW14-4	167.00	Rock	CDEMDMW14167.00VOC	Normal Sample	vld	2/27/2009	10:08 AM	Grab	bmh	2/27/2009	3:09 PM		
SEI-509	CDEMDMW14-4	168.90	Rock	CDEMDMW14168.90VOC	Normal Sample	vld	2/27/2009	11:06 AM	Grab	bmh	2/27/2009	3:10 PM		
SEI-510	CDEMDMW14-4	170.70	Rock	CDEMDMW14170.70VOC	Normal Sample	vld	2/27/2009	11:08 AM	Grab	bmh	2/27/2009	3:11 PM		
SEI-511	CDEMDMW14-4	174.50	Rock	CDEMDMW14174.50VOC	Normal Sample	vld	2/27/2009	12:06 PM	Grab	bmh	2/27/2009	3:11 PM		
SEI-512	CDEMDMW14-4	175.50	Rock	CDEMDMW14175.50VOC	Normal Sample	vld	2/27/2009	12:08 PM	Grab	bmh	2/27/2009	3:12 PM		
SEI-513	CDEMDMW14-4	177.40	Rock	CDEMDMW14177.40VOC	Normal Sample	vld	2/27/2009	12:12 PM	Grab	bmh	2/27/2009	3:13 PM		
SEI-514	CDEMDMW14-5	180.20	Rock	CDEMDMW14180.20VOC	Normal Sample	vld	2/27/2009	1:44 PM	Grab	bmh	2/27/2009	3:14 PM		
SEI-515	CDEMDMW14-5	181.80	Rock	CDEMDMW14181.80VOC	Normal Sample	vld	2/27/2009	1:46 PM	Grab	bmh	2/27/2009	3:15 PM		
SEI-516	CDEMDMW14-5	184.10	Rock	CDEMDMW14184.10VOC	Normal Sample	vld	2/27/2009	2:39 PM	Grab	bmh	2/27/2009	3:16 PM		SEI-516
SEI-516-MS	CDEMDMW14-5	184.10	Rock	CDEMDMW14184.10VOC-MS	Matrix Spike	vld	2/27/2009	2:42 PM	Grab	bmh	2/27/2009	3:18 PM	Not Analy	SEI-516
SEI-517	CDEMDMW14FD	000.04	Rock	CDEMDMW14FD004VOC	Field Duplicate	vld	2/27/2009	2:40 PM	Grab	bmh	2/27/2009	3:17 PM		
SEI-519	CDEMDMW14EB	000.04	I Extract	CDEMDMW14EB004VOC	Equipment Blank	vld	2/27/2009	2:30 PM	Grab	bmh	2/27/2009	3:19 PM		
SEI-520	CDEMDMW14-5	185.70	Rock	CDEMDMW14185.70VOC	Normal Sample	vld	2/27/2009	2:44 PM	Grab	bmh	2/27/2009	3:20 PM		
SEI-521	CDEMDMW14-5	186.80	Rock	CDEMDMW14186.80VOC	Normal Sample	vld	2/27/2009	2:46 PM	Grab	bmh	2/27/2009	3:21 PM		
SEI-522	CDEMDMW14-5	188.80	Rock	CDEMDMW14188.80VOC	Normal Sample	vld	3/2/2009	9:37 AM	Grab	bmh	3/2/2009	12:00 PM		
SEI-523	CDEMDMW14-5	190.60	Rock	CDEMDMW14190.60VOC	Normal Sample	vld	3/2/2009	9:38 AM	Grab	bmh	3/2/2009	12:03 PM		
SEI-524	CDEMDMW14-5	193.60	Rock	CDEMDMW14193.60VOC	Normal Sample	vld	3/2/2009	10:33 AM	Grab	bmh	3/2/2009	12:03 PM		
SEI-525	CDEMDMW14-5	196.20	Rock	CDEMDMW14196.20VOC	Normal Sample	vld	3/2/2009	10:35 AM	Grab	bmh	3/2/2009	12:04 PM		
SEI-526	CDEMDMW14-5	197.40	Rock	CDEMDMW14197.40VOC	Normal Sample	vld	3/2/2009	10:39 AM	Grab	bmh	3/2/2009	12:05 PM		
SEI-527	CDEMDMW14-5	199.30	Rock	CDEMDMW14199.30VOC	Normal Sample	vld	3/2/2009	11:42 AM	Grab	bmh	3/2/2009	12:06 PM		
SEI-528	CDEMDMW14-5	201.10	Rock	CDEMDMW14201.10VOC	Normal Sample	vld	3/2/2009	11:45 AM	Grab	bmh	3/2/2009	12:07 PM		
SEI-529	CDEMDMW14-5	203.60	Rock	CDEMDMW14203.60VOC	Normal Sample	vld	3/2/2009	1:36 PM	Grab	bmh	3/2/2009	4:03 PM		
SEI-530	CDEMDMW14-5	205.00	Rock	CDEMDMW14205.00VOC	Normal Sample	vld	3/2/2009	1:38 PM	Grab	bmh	3/2/2009	4:05 PM		

KBM 6/10/09

R2-0016843

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedE	CollectedDate	CollectedTim	ectionMe	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID_Parent
SEI-531	CDEMDMW14-5	206.60	Rock	CDEMDMW14206.60VOC	Normal Sample	vld	3/2/2009	1:41 PM	Grab	bmh	3/2/2009	4:06 PM		
SEI-532	CDEMDMW14-5	208.50	Rock	CDEMDMW14208.50VOC	Normal Sample	vld	3/2/2009	2:34 PM	Grab	bmh	3/2/2009	4:07 PM		
SEI-533	CDEMDMW14-5	210.00	Rock	CDEMDMW14210.00VOC	Normal Sample	vld	3/2/2009	2:35 PM	Grab	bmh	3/2/2009	4:08 PM		
SEI-534	CDEMDMW14-5	214.60	Rock	CDEMDMW14214.60VOC	Normal Sample	vld	3/2/2009	3:29 PM	Grab	bmh	3/2/2009	4:09 PM		
SEI-535	CDEMDMW14-5	215.80	Rock	CDEMDMW14215.80VOC	Normal Sample	vld	3/2/2009	3:31 PM	Grab	bmh	3/2/2009	4:10 PM		
SEI-536	CDEMDMW14-6	216.90	Rock	CDEMDMW14216.90VOC	Normal Sample	vld	3/2/2009	3:33 PM	Grab	bmh	3/2/2009	4:11 PM		
SEI-538	CDEMDMW14-6	219.90	Rock	CDEMDMW14219.90VOC	Normal Sample	VLD	3/3/2009	9:25 AM	Grab	BMH	3/3/2009	12:34 PM		SEI-538
SEI-538-LD	CDEMDMW14-6	219.90	Rock	CDEMDMW14219.90VOC-LD	Lab Dup	VLD	3/3/2009	9:25 AM	Grab	BMH	3/3/2009	12:34 PM		SEI-538
SEI-539	CDEMDMW14-6	221.90	Rock	CDEMDMW14221.90VOC	Normal Sample	VLD	3/3/2009	9:27 AM	Grab	BMH	3/3/2009	12:37 PM		
SEI-540	CDEMDMW14-6	223.60	Rock	CDEMDMW14223.60VOC	Normal Sample	VLD	3/3/2009	10:38 AM	Grab	BMH	3/3/2009	12:38 PM		SEI-540
SEI-540-LD	CDEMDMW14-6	223.60	Rock	CDEMDMW14223.60VOC-LD	Lab Dup	VLD	3/3/2009	10:38 AM	Grab	BMH	3/3/2009	12:38 PM		SEI-540
SEI-540-MS	CDEMDMW14-6	223.60	Rock	CDEMDMW14223.60VOC-MS	Matrix Spike	VLD	3/3/2009	10:38 AM	Grab	BMH	3/3/2009	12:38 PM		SEI-540
SEI-541	CDEMDMW14FD	000.05	Rock	CDEMDMW14FD005VOC	Field Duplicate	VLD	3/3/2009	10:39 AM	Grab	BMH	3/3/2009	12:39 PM		
SEI-544	CDEMDMW14EB	000.05	I Extract	CDEMDMW14EB005VOC	Equipment Blank	VLD	3/3/2009	10:33 AM	Grab	BMH	3/3/2009	12:43 PM		
SEI-545	CDEMDMW14-6	225.70	Rock	CDEMDMW14225.70VOC	Normal Sample	VLD	3/3/2009	10:42 AM	Grab	BMH	3/3/2009	12:45 PM		
SEI-546	CDEMDMW14-6	227.20	Rock	CDEMDMW14227.20VOC	Normal Sample	VLD	3/3/2009	10:45 AM	Grab	BMH	3/3/2009	12:46 PM		SEI-546
SEI-546-LD	CDEMDMW14-6	227.20	Rock	CDEMDMW14227.20VOC-LD	Lab Dup	VLD	3/3/2009	10:45 AM	Grab	BMH	3/3/2009	12:46 PM		SEI-546
SEI-547	CDEMDMW14-6	228.90	Rock	CDEMDMW14228.90VOC	Normal Sample	VLD	3/3/2009	11:56 AM	Grab	BMH	3/3/2009	12:47 PM		
SEI-548	CDEMDMW14-6	231.30	Rock	CDEMDMW14231.30VOC	Normal Sample	VLD	3/3/2009	11:59 AM	Grab	BMH	3/3/2009	12:48 PM		SEI-548
SEI-548-MS	CDEMDMW14-6	231.30	Rock	CDEMDMW14231.30VOC-MS	Matrix Spike	VLD	3/3/2009	11:59 AM	Grab	BMH	3/3/2009	12:48 PM		SEI-548
SEI-549	CDEMDMW14FD	000.06	Rock	CDEMDMW14FD006VOC	Field Duplicate	VLD	3/3/2009	12:00 PM	Grab	BMH	3/3/2009	12:49 PM		
SEI-551	CDEMDMW14EB	000.06	I Extract	CDEMDMW14EB006VOC	Equipment Blank	VLD	3/3/2009	11:50 AM	Grab	BMH	3/3/2009	12:51 PM		

AW

R2-0016844

Sample Login Summary

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID_Parent
SEI-21	CDEMDMW16-1	022.50	Rock	CDEMDMW16022.50VOC	Normal Sample	VLD	1/21/2009	4:00 PM	Grab	dc	1/21/2009	4:29 PM		
SEI-22	CDEMDMW16-1	025.00	Rock	CDEMDMW16025.00VOC	Normal Sample	VLD	1/21/2009	4:00 PM	Grab	dc	1/21/2009	4:32 PM		
SEI-23	CDEMDMW16-1	027.00	Rock	CDEMDMW16027.00VOC	Normal Sample	VLD	1/21/2009	4:00 PM	Grab	dc	1/21/2009	4:33 PM		
SEI-27	CDEMDMW16-1	035.00	Rock	CDEMDMW16035.00VOC	Normal Sample	vld	1/22/2009	2:53 PM	Grab	bmh	1/22/2009	3:12 PM		SEI-27
SEI-27-MS	CDEMDMW16-1	035.00	Rock	CDEMDMW16035.00VOCMS	Matrix Spike	vld	1/22/2009	2:53 PM	Grab	bmh	1/22/2009	3:12 PM		SEI-27
SEI-29	CDEMDMW16-1	041.60	Rock	CDEMDMW16041.60VOC	Normal Sample	vd	1/22/2009	4:25 PM	Grab	dc	1/22/2009	4:45 PM		
SEI-30	CDEMDMW16-1	042.80	Rock	CDEMDMW16042.80VOC	Normal Sample	vd	1/22/2009	4:25 PM	Grab	dc	1/22/2009	4:47 PM		
SEI-31	CDEMDMW16-1	044.80	Rock	CDEMDMW16044.80VOC	Normal Sample	vld	1/23/2009	11:53 AM	Grab	dc	1/23/2009	12:22 PM		
SEI-32	CDEMDMW16-1	046.60	Rock	CDEMDMW16046.60VOC	Normal Sample	vld	1/23/2009	11:53 AM	Grab	dc	1/23/2009	12:29 PM		
SEI-33	CDEMDMW16-2	048.20	Rock	CDEMDMW16048.20VOC	Normal Sample	vld	1/23/2009	11:53 AM	Grab	dc	1/23/2009	12:30 PM		
SEI-34	CDEMDMW16-2	050.00	Rock	CDEMDMW16050.00VOC	Normal Sample	vld	1/23/2009	11:53 AM	Grab	dc	1/23/2009	12:31 PM		
SEI-35	CDEMDMW16-2	052.00	Rock	CDEMDMW16052.00VOC	Normal Sample	vld	1/23/2009	11:53 AM	Grab	dc	1/23/2009	12:31 PM		
SEI-38	CDEMDMW16-2	054.30	Rock	CDEMDMW16054.30VOC	Normal Sample	vd	1/23/2009	4:38 PM	Grab	dc	1/23/2009	5:00 PM		
SEI-39	CDEMDMW16-2	055.90	Rock	CDEMDMW16055.90VOC	Normal Sample	vd	1/23/2009	4:38 PM	Grab	dc	1/23/2009	5:01 PM		
SEI-40	CDEMDMW16-2	058.20	Rock	CDEMDMW16058.20VOC	Normal Sample	vd	1/23/2009	4:38 PM	Grab	dc	1/23/2009	5:02 PM		
SEI-37	CDEMDMW16-2	060.40	Rock	CDEMDMW16060.40VOC	Normal Sample	vd	1/23/2009	4:38 PM	Grab	dc	1/23/2009	4:58 PM		
SEI-41	CDEMDMW16-2	062.00	Rock	CDEMDMW16062.00VOC	Normal Sample	vd	1/23/2009	4:38 PM	Grab	dc	1/23/2009	5:03 PM		
SEI-45	CDEMDMW16-3	064.55	Rock	CDEMDMW16064.55VOC	Normal Sample	VLD	1/26/2009	1:30 PM	Grab	BMH	1/26/2009	1:59 PM		
SEI-46	CDEMDMW16-3	066.60	Rock	CDEMDMW16066.60VOC	Normal Sample	VLD	1/26/2009	1:30 PM	Grab	BMH	1/26/2009	2:00 PM		
SEI-47	CDEMDMW16-3	068.00	Rock	CDEMDMW16068.00VOC	Normal Sample	VLD	1/26/2009	1:30 PM	Grab	BMH	1/26/2009	2:01 PM		
SEI-44	CDEMDMW16-3	070.10	Rock	CDEMDMW16070.10VOC	Normal Sample	VLD	1/26/2009	1:30 PM	Grab	BMH	1/26/2009	1:57 PM		
SEI-42	CDEMDMW16-3	072.20	Rock	CDEMDMW16072.20VOC	Normal Sample	VLD	1/26/2009	1:30 PM	Grab	BMH	1/26/2009	1:46 PM		
SEI-48	CDEMDMW16-3	074.30	Rock	CDEMDMW16074.30VOC	Normal Sample	vd	1/23/2009	6:09 PM	Grab	dc	1/26/2009	6:30 PM		
SEI-49	CDEMDMW16-3	075.90	Rock	CDEMDMW16075.90VOC	Normal Sample	vd	1/26/2009	6:10 PM	Grab	dc	1/26/2009	6:30 PM		
SEI-50	CDEMDMW16-3	078.00	Rock	CDEMDMW16078.00VOC	Normal Sample	vd	1/26/2009	6:10 PM	Grab	dc	1/26/2009	6:30 PM		
SEI-51	CDEMDMW16-4	079.90	Rock	CDEMDMW16079.90VOC	Normal Sample	vd	1/26/2009	6:10 PM	Grab	dc	1/26/2009	6:30 PM		
SEI-52	CDEMDMW16-4	082.00	Rock	CDEMDMW16082.00VOC	Normal Sample	vd	1/26/2009	6:30 PM	Grab	dc	1/26/2009	6:30 PM		
SEI-53	CDEMDMW16-4	084.55	Rock	CDEMDMW16084.55VOC	Normal Sample	vd	1/26/2009	6:02 PM	Grab	dc	1/26/2009	6:30 PM		
SEI-54	CDEMDMW16-4	086.10	Rock	CDEMDMW16086.10VOC	Normal Sample	vd	1/26/2009	6:02 PM	Grab	dc	1/26/2009	6:30 PM		
SEI-55	CDEMDMW16-4	087.80	Rock	CDEMDMW16087.80VOC	Normal Sample	vd	1/26/2009	6:02 PM	Grab	dc	1/26/2009	6:30 PM		
SEI-56	CDEMDMW16-4	090.10	Rock	CDEMDMW16090.10VOC	Normal Sample	vd	1/27/2009	11:59 AM	Grab	dc	1/27/2009	2:47 PM		
SEI-57	CDEMDMW16-4	092.70	Rock	CDEMDMW16092.70VOC	Normal Sample	vd	1/27/2009	11:59 AM	Grab	dc	1/27/2009	2:49 PM		
SEI-58	CDEMDMW16-4	094.30	Rock	CDEMDMW16094.30VOC	Normal Sample	vd	1/27/2009	11:59 AM	Grab	dc	1/27/2009	2:51 PM		
SEI-59	CDEMDMW16-5	096.10	Rock	CDEMDMW16096.10VOC	Normal Sample	vd	1/27/2009	11:59 AM	Grab	dc	1/27/2009	2:52 PM		
SEI-60	CDEMDMW16-5	098.40	Rock	CDEMDMW16098.40VOC	Normal Sample	vd	1/27/2009	11:59 AM	Grab	dc	1/27/2009	2:53 PM		
SEI-61	CDEMDMW16-5	099.80	Rock	CDEMDMW16099.80VOC	Normal Sample	vd	1/27/2009	11:59 AM	Grab	dc	1/27/2009	2:54 PM		
SEI-62	CDEMDMW16-5	101.90	Rock	CDEMDMW16101.90VOC	Normal Sample	vd	1/27/2009	11:59 AM	Grab	dc	1/27/2009	2:55 PM		
SEI-63	CDEMDMW16-5	104.70	Rock	CDEMDMW16104.70VOC	Normal Sample	vd	1/27/2009	5:17 PM	Grab	dc	1/27/2009	5:30 PM		
SEI-64	CDEMDMW16-5	106.10	Rock	CDEMDMW16106.10VOC	Normal Sample	vd	1/27/2009	5:17 PM	Grab	dc	1/27/2009	5:30 PM		
SEI-65	CDEMDMW16-5	107.40	Rock	CDEMDMW16107.40VOC	Normal Sample	vd	1/27/2009	5:17 PM	Grab	dc	1/27/2009	5:30 PM		
SEI-66	CDEMDMW16-5	110.20	Rock	CDEMDMW16110.20VOC	Normal Sample	vd	1/27/2009	5:17 PM	Grab	dc	1/27/2009	5:30 PM		SEI-66
SEI-66-MS	CDEMDMW16-5	110.20	Rock	CDEMDMW16110.20VOCMS	Matrix Spike	vd	1/27/2009	5:17 PM	Grab	dc	1/27/2009	5:30 PM		SEI-66
SEI-68	CDEMDMW16-6	112.20	Rock	CDEMDMW16112.20VOC	Normal Sample	vd	1/27/2009	5:17 PM	Grab	dc	1/27/2009	5:30 PM		
SEI-70	CDEMDMW16-6	114.40	Rock	CDEMDMW16114.4VOC	Normal Sample	vd	1/27/2009	5:18 PM	Grab	dc	1/27/2009	5:30 PM		
SEI-71	CDEMDMW16-6	115.70	Rock	CDEMDMW16115.70VOC	Normal Sample	vd	1/27/2009	5:18 PM	Grab	dc	1/27/2009	5:30 PM		
SEI-72	CDEMDMW16-6	117.40	Rock	CDEMDMW16117.40VOC	Normal Sample	vd	1/27/2009	5:18 PM	Grab	dc	1/27/2009	5:30 PM		
SEI-73	CDEMDMW16-6	119.70	Rock	CDEMDMW16119.70VOC	Normal Sample	vd	1/27/2009	5:18 PM	Grab	dc	1/27/2009	5:30 PM		SEI-73
SEI-73-LD	CDEMDMW16-6	119.70	Rock	CDEMDMW16119.70VOC-LD	Lab Dup	vd	1/27/2009	5:18 PM	Grab	dc	1/27/2009	5:30 PM		SEI-73
SEI-74	CDEMDMW16-6	122.50	Rock	CDEMDMW16122.50VOC	Normal Sample	vd	1/27/2009	5:18 PM	Grab	dc	1/27/2009	5:30 PM		
SEI-77	CDEMDMW16-6	125.50	Rock	CDEMDMW16125.50VOC	Normal Sample	vld	1/28/2009	12:39 PM	Grab	dc	1/28/2009	3:46 PM		
SEI-78	CDEMDMW16-6	126.70	Rock	CDEMDMW16126.70VOC	Normal Sample	vld	1/28/2009	12:39 PM	Grab	dc	1/28/2009	3:48 PM		
SEI-79	CDEMDMW16-7	128.40	Rock	CDEMDMW16128.40VOC	Normal Sample	vld	1/28/2009	12:39 PM	Grab	dc	1/28/2009	3:52 PM		SEI-79
SEI-79-LD	CDEMDMW16-7	128.40	Rock	CDEMDMW16128.40VOC-LD	Lab Dup	vld	1/28/2009	12:39 PM	Grab	dc	1/28/2009	3:52 PM		SEI-79

Sample Login Summary

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID Parent
SEI-80	CDEMDMW16-7	130.00	Rock	CDEMDMW16130.00VOC	Normal Sample	vld	1/28/2009	12:39 PM	Grab	dc	1/28/2009	3:53 PM		
SEI-81	CDEMDMW16-7	131.90	Rock	CDEMDMW16131.90VOC	Normal Sample	vld	1/28/2009	12:39 PM	Grab	dc	1/28/2009	3:54 PM		
SEI-82	CDEMDMW16-7	134.70	Rock	CDEMDMW16134.70VOC	Normal Sample	vld	1/28/2009	5:13 PM	Grab	dc	1/28/2009	5:55 PM		
SEI-83	CDEMDMW16-7	136.90	Rock	CDEMDMW16136.90VOC	Normal Sample	vld	1/28/2009	5:13 PM	Grab	dc	1/28/2009	5:55 PM		
SEI-84	CDEMDMW16-7	138.40	Rock	CDEMDMW16138.40VOC	Normal Sample	vld	1/28/2009	5:13 PM	Grab	dc	1/28/2009	5:55 PM		
SEI-85	CDEMDMW16-7	140.10	Rock	CDEMDMW16140.10VOC	Normal Sample	vld	1/28/2009	5:13 PM	Grab	dc	1/28/2009	5:55 PM		
SEI-86	CDEMDMW16-7	142.20	Rock	CDEMDMW16142.20VOC	Normal Sample	vld	1/28/2009	5:13 PM	Grab	dc	1/28/2009	5:55 PM		
SEI-87	CDEMDMW16-8	144.30	Rock	CDEMDMW16144.30VOC	Normal Sample	vld	1/28/2009	5:13 PM	Grab	dc	1/28/2009	5:55 PM		
SEI-88	CDEMDMW16-8	146.10	Rock	CDEMDMW16146.10VOC	Normal Sample	vld	1/28/2009	5:13 PM	Grab	dc	1/28/2009	5:55 PM		
SEI-89	CDEMDMW16-8	148.40	Rock	CDEMDMW16148.40VOC	Normal Sample	vld	1/28/2009	5:13 PM	Grab	dc	1/28/2009	7:44 AM		
SEI-93	CDEMDMW16-8	149.70	Rock	CDEMDMW16149.70VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	12:57 PM		SEI-93
SEI-93-MS	CDEMDMW16-8	149.70	Rock	CDEMDMW16149.70VOCMS	Matrix Spike	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	12:57 PM		SEI-93
SEI-95	CDEMDMW16-8	151.70	Rock	CDEMDMW16151.70VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	12:59 PM		
SEI-96	CDEMDMW16-8	155.60	Rock	CDEMDMW16155.60VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	1:01 PM		
SEI-94	CDEMDMW16-8	156.20	Rock	CDEMDMW16156.20VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	12:58 PM		
SEI-97	CDEMDMW16-8	158.00	Rock	CDEMDMW16158.00VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	1:01 PM		
SEI-98	CDEMDMW16-9	160.40	Rock	CDEMDMW16160.40VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	1:03 PM		
SEI-99	CDEMDMW16-9	161.70	Rock	CDEMDMW16161.70VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	1:03 PM		
SEI-100	CDEMDMW16-9	164.30	Rock	CDEMDMW16164.30VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	1:04 PM		
SEI-101	CDEMDMW16-9	166.30	Rock	CDEMDMW16166.30VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	1:05 PM		
SEI-102	CDEMDMW16-9	167.60	Rock	CDEMDMW16167.60VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	1:06 PM		
SEI-105	CDEMDMW16-9	170.30	Rock	CDEMDMW16170.30VOC	Normal Sample	vld	1/29/2009	5:11 PM	Grab	dc	1/29/2009	5:30 PM		
SEI-106	CDEMDMW16-9	172.30	Rock	CDEMDMW16172.30VOC	Normal Sample	vld	1/29/2009	5:11 PM	Grab	dc	1/29/2009	5:30 PM		
SEI-107	CDEMDMW16-9	174.35	Rock	CDEMDMW16174.35VOC	Normal Sample	vld	1/29/2009	5:11 PM	Grab	dc	1/29/2009	5:30 PM		
SEI-108	CDEMDMW16-10	175.90	Rock	CDEMDMW16175.90VOC	Normal Sample	vld	1/29/2009	5:11 PM	Grab	dc	1/29/2009	5:30 PM		
SEI-109	CDEMDMW16-10	177.90	Rock	CDEMDMW16177.90VOC	Normal Sample	vld	1/29/2009	5:11 PM	Grab	dc	1/29/2009	5:30 PM		
SEI-110	CDEMDMW16-10	179.70	Rock	CDEMDMW16179.70VOC	Normal Sample	vld	1/29/2009	5:11 PM	Grab	dc	1/29/2009	5:30 PM		
SEI-111	CDEMDMW16-10	182.50	Rock	CDEMDMW16182.50VOC	Normal Sample	vld	1/29/2009	5:11 PM	Grab	dc	1/29/2009	5:30 PM		
SEI-112	CDEMDMW16-10	184.30	Rock	CDEMDMW16184.30VOC	Normal Sample	vld	1/29/2009	5:11 PM	Grab	dc	1/29/2009	5:30 PM		
SEI-113	CDEMDMW16-10	186.00	Rock	CDEMDMW16186.00VOC	Normal Sample	vld	1/29/2009	5:11 PM	Grab	dc	1/29/2009	5:30 PM		
SEI-114	CDEMDMW16-10	187.80	Rock	CDEMDMW16187.80VOC	Normal Sample	vld	1/29/2009	5:11 PM	Grab	dc	1/29/2009	5:30 PM		
SEI-115	CDEMDMW16-10	190.10	Rock	cdemdmw16190.10voc	Normal Sample	VLD	1/30/2009	11:35 AM	Grab	DC	1/30/2009	12:18 PM		SEI-115
SEI-115-MS	CDEMDMW16-10	190.10	Rock	cdemdmw16190.10vocMS	Matrix Spike	VLD	1/30/2009	11:35 AM	Grab	DC	1/30/2009	12:18 PM		SEI-115
SEI-116	CDEMDMW16-11	191.80	Rock	CDEMDMW16191.80VOC	Normal Sample	VLD	1/30/2009	11:36 AM	Grab	DC	1/30/2009	12:20 PM		
SEI-117	CDEMDMW16-11	194.90	Rock	CDEMDMW16194.90VOC	Normal Sample	VLD	1/30/2009	11:36 AM	Grab	DC	1/30/2009	12:21 PM		
SEI-118	CDEMDMW16-11	197.10	Rock	CDEMDMW16197.10VOC	Normal Sample	VLD	1/30/2009	11:36 AM	Grab	DC	1/30/2009	12:22 PM		
SEI-119	CDEMDMW16-11	198.50	Rock	CDEMDMW16198.50VOC	Normal Sample	VLD	1/30/2009	11:36 AM	Grab	DC	1/30/2009	12:23 PM		
SEI-120	CDEMDMW16-11	200.00	Rock	CDEMDMW16200.00VOC	Normal Sample	VLD	1/30/2009	11:36 AM	Grab	DC	1/30/2009	12:23 PM		
SEI-121	CDEMDMW16-11	202.10	Rock	CDEMDMW16202.10VOC	Normal Sample	VLD	1/30/2009	11:36 AM	Grab	DC	1/30/2009	12:24 PM		
SEI-125	CDEMDMW16-11	204.70	Rock	CDEMDMW16204.70VOC	Normal Sample	vld	1/30/2009	3:28 PM	Grab	dc	1/30/2009	4:30 PM		SEI-125
SEI-125-LD	CDEMDMW16-11	204.70	Rock	CDEMDMW16204.70VOC-LD	Lab Dup	vld	1/30/2009	3:28 PM	Grab	dc	1/30/2009	4:30 PM		SEI-125
SEI-126	CDEMDMW16-11	206.00	Rock	CDEMDMW16206.00VOC	Normal Sample	vld	1/30/2009	3:28 PM	Grab	dc	1/30/2009	4:30 PM		
SEI-127	CDEMDMW16-12	207.30	Rock	CDEMDMW16207.30VOC	Normal Sample	vld	1/30/2009	3:28 PM	Grab	dc	1/30/2009	4:30 PM		
SEI-128	CDEMDMW16-12	210.30	Rock	CDEMDMW16210.30VOC	Normal Sample	vld	1/30/2009	3:28 PM	Grab	dc	1/30/2009	4:30 PM		
SEI-129	CDEMDMW16-12	212.00	Rock	CDEMDMW16212.00VOC	Normal Sample	vld	1/30/2009	3:28 PM	Grab	dc	1/30/2009	4:30 PM		
SEI-130	CDEMDMW16-12	214.30	Rock	CDEMDMW16214.30VOC	Normal Sample	vld	1/30/2009	3:29 PM	Grab	dc	1/30/2009	4:30 PM		
SEI-131	CDEMDMW16-12	216.80	Rock	CDEMDMW16216.80VOC	Normal Sample	vld	1/30/2009	3:29 PM	Grab	dc	1/30/2009	4:30 PM		
SEI-132	CDEMDMW16-12	217.80	Rock	CDEMDMW16217.80VOC	Normal Sample	vld	1/30/2009	3:29 PM	Grab	dc	1/30/2009	4:30 PM		
SEI-133	CDEMDMW16-12	221.35	Rock	CDEMDMW16221.35VOC	Normal Sample	vld	1/30/2009	4:14 PM	Grab	dc	1/30/2009	4:30 PM		
SEI-134	CDEMDMW16-12	223.05	Rock	CDEMDMW16223.05VOC	Normal Sample	vld	1/30/2009	4:14 PM	Grab	dc	1/30/2009	4:30 PM		
SEI-136	CDEMDMW16-13	224.60	Rock	CDEMDMW16224.60VOC	Normal Sample	vld	2/2/2009	11:07 AM	Grab	dc	2/2/2009	11:39 AM		
SEI-137	CDEMDMW16-13	226.00	Rock	CDEMDMW16226.00VOC	Normal Sample	vld	2/2/2009	11:07 AM	Grab	dc	2/2/2009	11:40 AM		
SEI-138	CDEMDMW16-13	227.70	Rock	CDEMDMW16227.70VOC	Normal Sample	vld	2/2/2009	11:07 AM	Grab	dc	2/2/2009	11:41 AM		

Sample Login Summary

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID_Parent
SEI-139	CDEMDMW16-13	230.30	Rock	CDEMDMW16230.30VOC	Normal Sample	vld	2/2/2009	11:09 AM	Grab	dc	2/2/2009	11:42 AM		SEI-139
SEI-139-MS	CDEMDMW16-13	230.30	Rock	CDEMDMW16230.30VOCMS	Matrix Spike	vld	2/2/2009	11:09 AM	Grab	dc	2/2/2009	11:42 AM		SEI-139
SEI-141	CDEMDMW16-13	233.40	Rock	CDEMDMW16233.40VOC	Normal Sample	vld	2/2/2009	11:09 AM	Grab	dc	2/2/2009	11:43 AM		
SEI-142	CDEMDMW16-13	234.70	Rock	CDEMDMW16234.70VOC	Normal Sample	vld	2/2/2009	11:09 AM	Grab	dc	2/2/2009	11:44 AM		
SEI-143	CDEMDMW16-13	236.90	Rock	CDEMDMW16236.90VOC	Normal Sample	vld	2/2/2009	11:09 AM	Grab	dc	2/2/2009	11:45 AM		
SEI-144	CDEMDMW16-13	238.30	Rock	CDEMDMW16238.30VOC	Normal Sample	vld	2/2/2009	11:09 AM	Grab	dc	2/2/2009	11:45 AM		
SEI-146	CDEMDMW16-14	241.10	Rock	CDEMDMW16241.10VOC	Normal Sample	vld	2/2/2009	3:07 PM	Grab	dc	2/2/2009	3:17 PM		
SEI-147	CDEMDMW16-14	245.40	Rock	CDEMDMW16245.40VOC	Normal Sample	vld	2/2/2009	3:07 PM	Grab	dc	2/2/2009	3:18 PM		
SEI-148	CDEMDMW16-14	247.40	Rock	CDEMDMW16247.40VOC	Normal Sample	vld	2/2/2009	3:07 PM	Grab	dc	2/2/2009	3:19 PM		
SEI-149	CDEMDMW16-14	251.50	Rock	CDEMDMW16251.50VOC	Normal Sample	vld	2/2/2009	4:12 PM	Grab	dc	2/2/2009	4:54 PM		SEI-149
SEI-149-LD	CDEMDMW16-14	251.50	Rock	CDEMDMW16251.50VOC-LD	Lab Dup	vld	2/2/2009	4:12 PM	Grab	dc	2/2/2009	4:54 PM		SEI-149
SEI-36	CDEMDMW16EB	000.01	Extract	CDEMDMW16EB001VOC	Normal Sample	vld	1/23/2009	11:53 AM	Grab	dc	1/23/2009	12:32 PM		
SEI-75	CDEMDMW16EB	000.02	Extract	CDEMDMW16EB002VOC	Equipment Blank	vd	1/27/2009	5:18 PM	Grab	dc	1/27/2009	5:30 PM		
SEI-92	CDEMDMW16EB	000.03	Extract	CDEMDMW16EB003VOC	Normal Sample	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	12:56 PM		
SEI-123	CDEMDMW16EB	000.04	Extract	CDEMDMW16EB004VOC	Equipment Blank	VLD	1/30/2009	11:35 AM	Grab	DC	1/30/2009	12:27 PM		
SEI-135	CDEMDMW16EB	000.05	Extract	CDEMDMW16EB005VOC	Equipment Blank	vld	2/2/2009	11:09 AM	Grab	dc	2/2/2009	11:38 AM		
SEI-43	CDEMDMW16FD	000.01	Rock	CDEMDMW16FD001VOC	Field Duplicate	VLD	1/26/2009	1:30 PM	Grab	BMH	1/26/2009	1:51 PM		
SEI-67	CDEMDMW16FD	000.02	Rock	CDEMDMW16FD002VOC	Field Duplicate	vd	1/27/2009	5:17 PM	Grab	dc	1/27/2009	5:30 PM		
SEI-104	CDEMDMW16FD	000.03	Rock	CDEMDMW16FD003VOC	Field Duplicate	vld	1/29/2009	12:04 PM	Grab	dc	1/29/2009	1:08 PM		
SEI-122	CDEMDMW16FD	000.04	Rock	CDEMDMW16FD004VOC	Field Duplicate	VLD	1/30/2009	11:35 AM	Grab	DC	1/30/2009	12:25 PM		
SEI-145	CDEMDMW16FD	000.05	Rock	CDEMDMW16FD005VOC	Field Duplicate	vld	2/2/2009	11:09 AM	Grab	dc	2/2/2009	11:46 AM		
SEI-24	CDEMDMW16MB	000.01	Extract	CDEMDMW16MB001VOC	Normal Sample	VD	1/20/2009	3:00 PM	Grab	dc	1/22/2009	11:09 AM	E25E06-1	
SEI-25	CDEMDMW16MB	000.02	Extract	CDEMDMW16MB002VOC	Normal Sample	VD	1/22/2009	9:00 AM	Grab	dc	1/22/2009	11:11 AM	E25E06-1	
SEI-26	CDEMDMW16MB	000.03	Extract	CDEMDMW16MB003VOC	Normal Sample	VD	1/22/2009	9:00 AM	Grab	dc	1/22/2009	11:12 AM	start of CV200-1	
SEI-76	CDEMDMW16MB	000.04	Extract	CDEMDMW16MB004VOC	Normal Sample	BT	1/28/2009	8:30 AM	Grab	dc	1/28/2009	10:17 AM	cv200 #2	

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID_Parent
SEI-183	CDEMDMW20-1	029.10	Rock	CDEMDMW20029.10VOC	Normal Sample	LR	2/9/2009	3:51 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-184	CDEMDMW20-1	030.10	Rock	CDEMDMW20030.10VOC	Normal Sample	LR	2/9/2009	3:51 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-185	CDEMDMW20-1	030.85	Rock	CDEMDMW20030.85VOC	Normal Sample	LR	2/9/2009	3:56 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-186	CDEMDMW20-1	031.48	Rock	CDEMDMW20031.48VOC	Normal Sample	LR	2/9/2009	3:58 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-187	CDEMDMW20-1	035.10	Rock	CDEMDMW20035.10VOC	Normal Sample	LR	2/9/2009	4:25 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-188	CDEMDMW20-1	037.50	Rock	CDEMDMW20037.50VOC	Normal Sample	LR	2/9/2009	4:28 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-189	CDEMDMW20EB	000.01	Methanol Extract	CDEMDMW20EB001VOC	Equipment Blank	LR	2/10/2009	11:29 AM	Grab	bmh	2/10/2009	12:38 PM		
SEI-190	CDEMDMW20-1	038.70	Rock	CDEMDMW20038.70VOC	Normal Sample	LR	2/10/2009	8:38 AM	Grab	bmh	2/10/2009	12:40 PM		
SEI-191	CDEMDMW20-1	039.70	Rock	CDEMDMW20039.70VOC	Normal Sample	LR	2/10/2009	8:41 AM	Grab	bmh	2/10/2009	12:44 PM		
SEI-192	CDEMDMW20-1	040.40	Rock	CDEMDMW20040.40VOC	Normal Sample	LR	2/10/2009	8:44 AM	Grab	bmh	2/10/2009	12:46 PM		
SEI-193	CDEMDMW20-1	041.90	Rock	CDEMDMW20041.90VOC	Normal Sample	LR	2/10/2009	8:47 AM	Grab	bmh	2/10/2009	12:47 PM		
SEI-194	CDEMDMW20-1	043.80	Rock	CDEMDMW20043.80VOC	Normal Sample	LR	2/10/2009	9:20 AM	Grab	bmh	2/10/2009	12:48 PM		
SEI-195	CDEMDMW20-1	045.20	Rock	CDEMDMW20045.20VOC	Normal Sample	LR	2/10/2009	9:23 AM	Grab	bmh	2/10/2009	12:49 PM		
SEI-196	CDEMDMW20-1	046.20	Rock	CDEMDMW20046.20VOC	Normal Sample	LR	2/10/2009	9:26 AM	Grab	bmh	2/10/2009	12:50 PM		
SEI-197	CDEMDMW20-1	049.20	Rock	CDEMDMW20049.20VOC	Normal Sample	LR	2/10/2009	10:04 AM	Grab	bmh	2/10/2009	12:51 PM		
SEI-198	CDEMDMW20-1	049.70	Rock	CDEMDMW20049.70VOC	Normal Sample	LR	2/10/2009	10:07 AM	Grab	bmh	2/10/2009	12:52 PM		
SEI-199	CDEMDMW20-1	050.70	Rock	CDEMDMW20050.70VOC	Normal Sample	LR	2/10/2009	10:13 AM	Grab	bmh	2/10/2009	12:53 PM		
SEI-200	CDEMDMW20-1	051.70	Rock	CDEMDMW20051.70VOC	Normal Sample	LR	2/10/2009	10:13 AM	Grab	bmh	2/10/2009	12:54 PM		
SEI-201	CDEMDMW20-1	053.70	Rock	CDEMDMW20053.70VOC	Normal Sample	LR	2/10/2009	11:14 AM	Grab	bmh	2/10/2009	12:55 PM		
SEI-202	CDEMDMW20-1	055.70	Rock	CDEMDMW20055.70VOC	Normal Sample	LR	2/10/2009	11:17 AM	Grab	bmh	2/10/2009	12:56 PM		
SEI-203	CDEMDMW20MB	000.01	Methanol Extract	CDEMDMW20MB001VOC	Normal Sample	bt	2/10/2009	2:00 PM	Grab	mdr	2/10/2009	2:30 AM		
SEI-204	CDEMDMW20-1	058.50	Rock	CDEMDMW20058.50VOC	Normal Sample	LR	2/10/2009	12:21 PM	Grab	bmh	2/10/2009	4:54 PM		SEI-204
SEI-204-MS	CDEMDMW20-1	058.50	Rock	CDEMDMW20058.50VOC-MS	Matrix Spike	LR	2/10/2009	12:23 PM	Grab	bmh	2/10/2009	4:54 PM		SEI-204
SEI-205	CDEMDMW20FD	000.01	Rock	CDEMDMW20FD001VOC	Field Duplicate	LR	2/10/2009	12:22 PM	Grab	bmh	2/10/2009	4:56 PM		
SEI-209	CDEMDMW20-2	059.35	Rock	CDEMDMW20059.35VOC	Normal Sample	LR	2/10/2009	12:26 PM	Grab	bmh	2/10/2009	5:01 PM		
SEI-210	CDEMDMW20-2	059.90	Rock	CDEMDMW20059.90VOC	Normal Sample	LR	2/10/2009	12:28 PM	Grab	bmh	2/10/2009	5:02 PM		
SEI-211	CDEMDMW20-2	062.25	Rock	CDEMDMW20062.25VOC	Normal Sample	LR	2/10/2009	12:31 PM	Grab	bmh	2/10/2009	5:04 PM		
SEI-212	CDEMDMW20-2	063.90	Rock	CDEMDMW20063.90VOC	Normal Sample	LR	2/10/2009	2:29 PM	Grab	bmh	2/10/2009	5:05 PM		
SEI-213	CDEMDMW20-2	065.60	Rock	CDEMDMW20065.60VOC	Normal Sample	LR	2/10/2009	2:34 PM	Grab	bmh	2/10/2009	5:13 PM		
SEI-214	CDEMDMW20-2	066.70	Rock	CDEMDMW20066.70VOC	Normal Sample	LR	2/10/2009	2:37 PM	Grab	bmh	2/10/2009	5:14 PM		
SEI-215	CDEMDMW20-2	069.20	Rock	CDEMDMW20069.20VOC	Normal Sample	LR	2/10/2009	3:48 PM	Grab	bmh	2/10/2009	5:15 PM		
SEI-216	CDEMDMW20-2	070.40	Rock	CDEMDMW20070.40VOC	Normal Sample	LR	2/10/2009	3:51 PM	Grab	bmh	2/10/2009	5:16 PM		
SEI-217	CDEMDMW20-2	070.80	Rock	CDEMDMW20070.80VOC	Normal Sample	LR	2/10/2009	3:54 PM	Grab	bmh	2/10/2009	5:17 PM		
SEI-218	CDEMDMW20-2	072.15	Rock	CDEMDMW20072.15VOC	Normal Sample	LR	2/10/2009	3:57 PM	Grab	bmh	2/10/2009	5:18 PM		
SEI-219	CDEMDMW20-2	074.55	Rock	CDEMDMW20074.55VOC	Normal Sample	LR	2/10/2009	4:25 PM	Grab	bmh	2/10/2009	5:19 PM		
SEI-220	CDEMDMW20-2	075.30	Rock	CDEMDMW20075.30VOC	Normal Sample	LR	2/10/2009	4:27 PM	Grab	bmh	2/10/2009	5:19 PM		
SEI-221	CDEMDMW20-2	076.85	Rock	CDEMDMW20076.85VOC	Normal Sample	LR	2/10/2009	4:30 PM	Grab	bmh	2/10/2009	5:20 PM		
SEI-222	CDEMDMW20-2	080.50	Rock	CDEMDMW20080.50VOC	Normal Sample	lr	10/12/2009	9:50 AM	Grab	mdr	2/11/2009	11:40 AM		
SEI-223	CDEMDMW20-2	084.20	Rock	CDEMDMW20084.20VOC	Normal Sample	lr	10/12/2009	10:46 AM	Grab	mdr	2/11/2009	11:42 AM		
SEI-224	CDEMDMW20-2	085.30	Rock	CDEMDMW20085.30VOC	Normal Sample	lr	10/12/2009	10:49 AM	Grab	mdr	2/11/2009	11:44 AM		
SEI-225	CDEMDMW20-2	086.50	Rock	CDEMDMW20086.50VOC	Normal Sample	lr	10/12/2009	10:53 AM	Grab	mdr	2/11/2009	11:47 AM		
SEI-226	CDEMDMW20-2	088.90	Rock	CDEMDMW20088.90VOC	Normal Sample	lr	10/12/2009	11:46 AM	Grab	mdr	2/11/2009	2:20 PM		
SEI-227	CDEMDMW20-2	090.20	Rock	CDEMDMW20090.20VOC	Normal Sample	lr	10/12/2009	11:46 AM	Grab	mdr	2/11/2009	2:21 PM		
SEI-228	CDEMDMW20-2	090.75	Rock	CDEMDMW20090.75VOC	Normal Sample	lr	10/12/2009	11:49 AM	Grab	mdr	2/11/2009	2:23 PM		SEI-228
SEI-228-MS	CDEMDMW20-2	090.75	Rock	CDEMDMW20090.75VOC-MS	Matrix Spike	lr	10/12/2009	11:52 AM	Grab	mdr	2/11/2009	2:23 PM		SEI-228
SEI-229	CDEMDMW20FD	000.02	Rock	CDEMDMW20FD002VOC	Field Duplicate	lr	10/12/2009	11:51 AM	Grab	mdr	2/11/2009	2:23 PM		
SEI-232	CDEMDMW20EB	000.02	Methanol Extract	CDEMDMW20EB002VOC	Equipment Blank	lr	10/12/2009	11:56 AM	Grab	mdr	2/11/2009	2:30 PM		
SEI-233	CDEMDMW20-3	091.80	Rock	CDEMDMW20091.80VOC	Normal Sample	lr	10/12/2009	11:54 AM	Grab	mdr	2/11/2009	2:31 PM		
SEI-234	CDEMDMW20-3	094.25	Rock	CDEMDMW20094.25VOC	Normal Sample	lr	10/12/2009	1:11 PM	Grab	mdr	2/11/2009	2:32 PM		
SEI-235	CDEMDMW20-3	095.75	Rock	CDEMDMW20095.70VOC	Normal Sample	lr	10/12/2009	1:13 PM	Grab	mdr	2/11/2009	2:33 PM		
SEI-236	CDEMDMW20-3	097.00	Rock	CDEMDMW20097.00VOC	Normal Sample	lr	10/12/2009	1:15 PM	Grab	mdr	2/11/2009	2:34 PM		
SEI-237	CDEMDMW20-3	099.10	Rock	CDEMDMW20099.10VOC	Normal Sample	lr	10/12/2009	1:57 PM	Grab	mdr	2/11/2009	2:35 PM		
SEI-238	CDEMDMW20-3	099.80	Rock	CDEMDMW20099.80VOC	Normal Sample	lr	10/12/2009	1:59 PM	Grab	mdr	2/11/2009	2:36 PM		
SEI-239	CDEMDMW20-3	100.45	Rock	CDEMDMW20100.45VOC	Normal Sample	lr	10/12/2009	2:01 PM	Grab	mdr	2/11/2009	2:37 PM		
SEI-240	CDEMDMW20-3	101.80	Rock	CDEMDMW20101.80VOC	Normal Sample	lr	10/12/2009	2:04 PM	Grab	mdr	2/11/2009	2:37 PM		
SEI-241	CDEMDMW20EB	000.03	Methanol Extract	CDEMDMW20EB003VOC	Equipment Blank	ljr	2/11/2009	4:51 PM	Grab	mdr	2/12/2009	7:32 AM		
SEI-242	CDEMDMW20-3	104.70	Rock	CDEMDMW20104.70VOC	Normal Sample	ljr	2/11/2009	2:36 PM	Grab	mdr	2/12/2009	7:34 AM		
SEI-243	CDEMDMW20-3	105.85	Rock	CDEMDMW20105.85VOC	Normal Sample	ljr	2/11/2009	2:40 PM	Grab	mdr	2/12/2009	7:36 AM		
SEI-244	CDEMDMW20-3	106.45	Rock	CDEMDMW20106.45VOC	Normal Sample	ljr	2/11/2009	2:43 PM	Grab	mdr	2/12/2009	7:37 AM		

R2-0016848

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID_Parent
SEI-245	CDEMDMW20-3	109.40	Rock	CDEMDMW20109.40VOC	Normal Sample	ljr	2/11/2009	3:15 PM	Grab	mdr	2/12/2009	7:38 AM		
SEI-246	CDEMDMW20-3	110.65	Rock	CDEMDMW20110.65.VOC	Normal Sample	ljr	2/11/2009	3:18 PM	Grab	mdr	2/12/2009	7:39 AM		
SEI-247	CDEMDMW20-3	112.20	Rock	CDEMDMW20112.20.VOC	Normal Sample	ljr	2/11/2009	3:20 PM	Grab	mdr	2/12/2009	7:42 AM		
SEI-248	CDEMDMW20-3	113.80	Rock	CDEMDMW20113.80VOC	Normal Sample	ljr	2/11/2009	3:51 PM	Grab	mdr	2/12/2009	7:43 AM		
SEI-249	CDEMDMW20-3	115.50	Rock	CDEMDMW20115.50VOC	Normal Sample	ljr	2/11/2009	3:53 PM	Grab	mdr	2/12/2009	7:44 AM		
SEI-250	CDEMDMW20-3	116.80	Rock	CDEMDMW20116.80VOC	Normal Sample	ljr	2/11/2009	3:56 PM	Grab	mdr	2/12/2009	7:45 AM		
SEI-251	CDEMDMW20-3	118.50	Rock	CDEMDMW20118.50VOC	Normal Sample	ljr	2/11/2009	4:39 PM	Grab	mdr	2/12/2009	7:46 AM		
SEI-252	CDEMDMW20-3	120.00	Rock	CDEMDMW20120.00VOC	Normal Sample	ljr	2/11/2009	4:42 PM	Grab	mdr	2/12/2009	7:46 AM		
SEI-253	CDEMDMW20-3	120.70	Rock	CDEMDMW20120.70VOC	Normal Sample	ljr	2/11/2009	4:44 PM	Grab	mdr	2/12/2009	7:47 AM		SEI-253
SEI-253-MS	CDEMDMW20-3	120.70	Rock	CDEMDMW20120.70VOC-MS	Matrix Spike	ljr	2/11/2009	4:46 PM	Grab	mdr	2/12/2009	7:47 AM		SEI-253
SEI-254	CDEMDMW20FD	000.03	Rock	CDEMDMW20FD003VOC	Field Duplicate	ljr	2/11/2009	4:45 PM	Grab	mdr	2/12/2009	7:48 AM		
SEI-258	CDEMDMW20-4	121.35	Rock	CDEMDMW20121.35VOC	Normal Sample	ljr	2/11/2009	4:48 PM	Grab	mdr	2/12/2009	7:55 AM		
SEI-259	CDEMDMW20-4	124.10	Rock	CDEMDMW20124.10VOC	Normal Sample	ljr	2/11/2009	5:17 PM	Grab	mdr	2/12/2009	8:01 AM		
SEI-260	CDEMDMW20-4	125.80	Rock	CDEMDMW20125.80VOC	Normal Sample	ljr	2/11/2009	5:19 PM	Grab	mdr	2/12/2009	8:02 AM		
SEI-261	CDEMDMW20-4	127.15	Rock	CDEMDMW20127.15VOC	Normal Sample	ljr	2/11/2009	5:21 PM	Grab	mdr	2/12/2009	8:02 AM		
SEI-264	CDEMDMW20-4	129.30	Rock	CDEMDMW20129.30VOC	Normal Sample	ljr	2/12/2009	8:40 AM	Grab	bmh	2/12/2009	9:51 AM		
SEI-265	CDEMDMW20-4	130.45	Rock	CDEMDMW20130.45VOC	Normal Sample	ljr	2/12/2009	8:42 AM	Grab	bmh	2/12/2009	9:59 AM		
SEI-266	CDEMDMW20-4	132.50	Rock	CDEMDMW20132.50VOC	Normal Sample	ljr	2/12/2009	8:46 AM	Grab	bmh	2/12/2009	10:00 AM		
SEI-268	CDEMDMW20-4	134.90	Rock	CDEMDMW20134.90VOC	Normal Sample	ljr	2/12/2009	9:17 AM	Grab	bmh	2/12/2009	10:08 AM		
SEI-269	CDEMDMW20-4	136.65	Rock	CDEMDMW20136.65VOC	Normal Sample	ljr	2/12/2009	9:20 AM	Grab	bmh	2/12/2009	10:09 AM		
SEI-270	CDEMDMW20EB	000.04	Methanol Extract	CDEMDMW20EB004VOC	Equipment Blank	lr	2/12/2009	1:18 PM	Grab	mdr	2/12/2009	2:52 PM		
SEI-271	CDEMDMW20-4	139.40	Rock	CDEMDMW20139.40VOC	Normal Sample	lr	2/12/2009	9:55 AM	Grab	mdr	2/12/2009	2:55 PM		
SEI-272	CDEMDMW20-4	140.40	Rock	CDEMDMW20140.40VOC	Normal Sample	lr	2/12/2009	9:58 AM	Grab	mdr	2/12/2009	2:56 PM		
SEI-273	CDEMDMW20-4	142.60	Rock	CDEMDMW20142.60VOC	Normal Sample	lr	2/12/2009	10:01 AM	Grab	mdr	2/12/2009	2:57 PM		
SEI-274	CDEMDMW20-4	143.00	Rock	CDEMDMW20143.00VOC	Normal Sample	lr	2/12/2009	10:41 AM	Grab	mdr	2/12/2009	2:58 PM		
SEI-275	CDEMDMW20-4	145.50	Rock	CDEMDMW20145.50VOC	Normal Sample	lr	2/12/2009	11:08 AM	Grab	mdr	2/12/2009	2:58 PM		
SEI-276	CDEMDMW20-4	147.00	Rock	CDEMDMW20147.00VOC	Normal Sample	lr	2/12/2009	11:11 AM	Grab	mdr	2/12/2009	2:59 PM		
SEI-277	CDEMDMW20-4	149.30	Rock	CDEMDMW20149.30VOC	Normal Sample	lr	2/12/2009	12:00 PM	Grab	mdr	2/12/2009	3:00 PM		
SEI-278	CDEMDMW20-4	150.10	Rock	CDEMDMW20150.10VOC	Normal Sample	lr	2/12/2009	12:03 PM	Grab	mdr	2/12/2009	3:01 PM		
SEI-279	CDEMDMW20-4	152.00	Rock	CDEMDMW20152.00VOC	Normal Sample	lr	2/12/2009	12:06 PM	Grab	mdr	2/12/2009	3:02 PM		
SEI-280	CDEMDMW20-4	154.30	Rock	CDEMDMW20154.30VOC	Normal Sample	lr	2/12/2009	1:27 PM	Grab	mdr	2/12/2009	3:02 PM		
SEI-281	CDEMDMW20-4	156.15	Rock	CDEMDMW20156.15VOC	Normal Sample	lr	2/12/2009	1:29 PM	Grab	mdr	2/12/2009	3:04 PM		
SEI-282	CDEMDMW20FD	000.04	Rock	CDEMDMW20FD004VOC	Field Duplicate	lr	2/12/2009	1:31 PM	Grab	mdr	2/12/2009	3:05 PM		
SEI-283	CDEMDMW20-4	157.20	Rock	CDEMDMW20157.20VOC	Normal Sample	lr	2/12/2009	1:37 PM	Grab	mdr	2/12/2009	3:06 PM		SEI-283
SEI-283-MS	CDEMDMW20-4	157.20	Rock	CDEMDMW20157.20VOC-MS	Matrix Spike	lr	2/12/2009	1:38 PM	Grab	mdr	2/12/2009	3:06 PM		SEI-283
SEI-284	CDEMDMW20-4	159.50	Rock	CDEMDMW20159.50VOC	Normal Sample	lr	2/12/2009	2:11 PM	Grab	mdr	2/12/2009	3:06 PM		
SEI-285	CDEMDMW20-5	161.00	Rock	CDEMDMW20161.00VOC	Normal Sample	lr	2/12/2009	2:14 PM	Grab	mdr	2/12/2009	3:08 PM		
SEI-286	CDEMDMW20-5	162.40	Rock	CDEMDMW20162.40VOC	Normal Sample	lr	2/12/2009	2:17 PM	Grab	mdr	2/12/2009	3:09 PM		
SEI-288	CDEMDMW20-5	164.50	Rock	CDEMDMW20164.50VOC	Normal Sample	ljr	2/12/2009	2:58 PM	Grab	bmh	2/13/2009	8:11 AM		
SEI-289	CDEMDMW20-5	166.70	Rock	CDEMDMW20166.70VOC	Normal Sample	ljr	2/12/2009	3:01 PM	Grab	bmh	2/13/2009	8:13 AM		
SEI-290	CDEMDMW20-5	168.80	Rock	CDEMDMW20168.80VOC	Normal Sample	ljr	2/12/2009	3:34 PM	Grab	bmh	2/13/2009	8:15 AM		
SEI-291	CDEMDMW20-5	170.40	Rock	CDEMDMW20170.40VOC	Normal Sample	ljr	2/12/2009	3:37 PM	Grab	bmh	2/13/2009	8:16 AM		
SEI-292	CDEMDMW20-5	171.90	Rock	CDEMDMW20171.90VOC	Normal Sample	ljr	2/12/2009	3:39 PM	Grab	bmh	2/13/2009	8:17 AM		
SEI-293	CDEMDMW20-5	174.00	Rock	CDEMDMW20174.00VOC	Normal Sample	ljr	2/12/2009	4:20 PM	Grab	bmh	2/13/2009	8:19 AM		
SEI-294	CDEMDMW20-5	176.00	Rock	CDEMDMW20176.00VOC	Normal Sample	ljr	2/12/2009	4:23 PM	Grab	bmh	2/13/2009	8:19 AM		
SEI-295	CDEMDMW20-5	178.40	Rock	CDEMDMW20178.40VOC	Normal Sample	ljr	2/12/2009	5:06 PM	Grab	bmh	2/13/2009	8:21 AM		
SEI-296	CDEMDMW20-5	180.70	Rock	CDEMDMW20180.70VOC	Normal Sample	ljr	2/12/2009	5:09 PM	Grab	bmh	2/13/2009	8:23 AM		
SEI-297	CDEMDMW20-5	182.40	Rock	CDEMDMW20182.40VOC	Normal Sample	ljr	2/12/2009	5:11 PM	Grab	bmh	2/13/2009	8:24 AM		
SEI-298	CDEMDMW20-5	184.65	Rock	CDEMDMW20184.65VOC	Normal Sample	ljr	2/12/2009	5:54 PM	Grab	bmh	2/13/2009	8:25 AM		
SEI-299	CDEMDMW20-5	187.60	Rock	CDEMDMW20187.60VOC	Normal Sample	ljr	2/12/2009	5:57 PM	Grab	bmh	2/13/2009	8:27 AM		
SEI-300	CDEMDMW20MB	000.02	Methanol Extract	CDEMDMW20MB002VOC	Normal Sample	lr	2/12/2009	12:25 PM	Grab	mdr	2/12/2009	1:00 AM	lot g49e42	
SEI-301	CDEMDMW20EB	000.05	Methanol Extract	cdemdmw20eb005voc	Equipment Blank	LR	2/13/2009	8:37 AM	Grab	MDR	2/13/2009	2:23 PM		
SEI-302	CDEMDMW20-5	188.70	Rock	CDEMDMW20188.70VOC	Normal Sample	LR	2/13/2009	8:26 AM	Grab	MDR	2/13/2009	2:24 PM		
SEI-303	CDEMDMW20-5	190.60	Rock	CDEMDMW20190.60VOC	Normal Sample	LR	2/13/2009	8:28 AM	Grab	MDR	2/13/2009	2:26 PM		
SEI-304	CDEMDMW20-5	192.30	Rock	CDEMDMW20192.30VOC	Normal Sample	LR	2/13/2009	8:34 AM	Grab	MDR	2/13/2009	2:26 PM		SEI-304
SEI-304-MS	CDEMDMW20-5	192.30	Rock	CDEMDMW20192.30VOC-MS	Matrix Spike	LR	2/13/2009	8:34 AM	Grab	MDR	2/13/2009	2:26 PM		SEI-304
SEI-305	CDEMDMW20FD	000.05	Rock	CDEMDMW20FD005VOC	Field Duplicate	LR	2/13/2009	8:33 AM	Grab	MDR	2/13/2009	2:29 PM		
SEI-308	CDEMDMW20-5	194.80	Rock	CDEMDMW20194.80VOC	Normal Sample	LR	2/13/2009	9:21 AM	Grab	MDR	2/13/2009	2:36 PM		
SEI-309	CDEMDMW20-5	197.10	Rock	CDEMDMW20197.10VOC	Normal Sample	LR	2/13/2009	9:24 AM	Grab	MDR	2/13/2009	2:39 PM		

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID_Parent
SEI-310	CDEMDMW20-5	198.65	Rock	CDEMDMW20198.85VOC	Normal Sample	LR	2/13/2009	10:05 AM	Grab	MDR	2/13/2009	2:40 PM		
SEI-311	CDEMDMW20-5	200.50	Rock	CDEMDMW20200.50VOC	Normal Sample	LR	2/13/2009	10:07 AM	Grab	MDR	2/13/2009	2:41 PM		
SEI-312	CDEMDMW20-5	202.15	Rock	CDEMDMW20202.15VOC	Normal Sample	LR	2/13/2009	10:10 AM	Grab	MDR	2/13/2009	2:42 PM		
SEI-313	CDEMDMW20-5	204.90	Rock	CDEMDMW20204.90VOC	Normal Sample	LR	2/13/2009	10:46 AM	Grab	MDR	2/13/2009	2:43 PM		
SEI-314	CDEMDMW20-5	206.50	Rock	CDEMDMW20206.50VOC	Normal Sample	LR	2/13/2009	10:48 AM	Grab	MDR	2/13/2009	2:44 PM		
SEI-315	CDEMDMW20-5	209.30	Rock	CDEMDMW20209.30VOC	Normal Sample	ljr	2/13/2009	11:26 AM	Grab	bmh	2/13/2009	3:30 PM		
SEI-316	CDEMDMW20-5	210.55	Rock	CDEMDMW20210.55VOC	Normal Sample	ljr	2/13/2009	11:28 AM	Grab	bmh	2/13/2009	3:30 PM		
SEI-317	CDEMDMW20-5	211.80	Rock	CDEMDMW20211.80VOC	Normal Sample	ljr	2/13/2009	11:31 AM	Grab	bmh	2/13/2009	3:30 PM		
SEI-318	CDEMDMW20-6	214.55	Rock	CDEMDMW20214.55VOC	Normal Sample	ljr	2/13/2009	1:09 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-319	CDEMDMW20-6	217.20	Rock	CDEMDMW20217.20VOC	Normal Sample	ljr	2/13/2009	1:13 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-320	CDEMDMW20-6	219.70	Rock	CDEMDMW20219.70VOC	Normal Sample	ljr	2/13/2009	2:19 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-321	CDEMDMW20-6	221.55	Rock	CDEMDMW20221.55VOC	Normal Sample	ljr	2/13/2009	2:21 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-322	CDEMDMW20-6	222.30	Rock	CDEMDMW20222.30VOC	Normal Sample	ljr	2/13/2009	2:23 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-323	CDEMDMW20-6	224.80	Rock	CDEMDMW20224.80VOC	Normal Sample	ljr	2/13/2009	2:57 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-324	CDEMDMW20-6	227.30	Rock	CDEMDMW20227.30VOC	Normal Sample	ljr	2/13/2009	3:00 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-327	CDEMDMW20-6	228.80	Rock	CDEMDMW20228.80VOC	Normal Sample	vld	2/16/2009	8:42 AM	Grab	dc	2/16/2009	12:21 PM		
SEI-328	CDEMDMW20-6	230.10	Rock	CDEMDMW20230.10VOC	Normal Sample	vld	2/16/2009	8:48 AM	Grab	dc	2/16/2009	12:24 PM		
SEI-329	CDEMDMW20-6	231.40	Rock	CDEMDMW20231.40VOC	Normal Sample	vld	2/16/2009	8:51 AM	Grab	dc	2/16/2009	12:25 PM		SEI-329
SEI-329-MS	CDEMDMW20-6	231.40	Rock	CDEMDMW20231.40VOCMS	Matrix Spike	vld	2/16/2009	8:56 AM	Grab	dc	2/16/2009	12:25 PM		SEI-329
SEI-330	CDEMDMW20-6	234.00	Rock	CDEMDMW20234.00VOC	Normal Sample	vld	2/16/2009	9:35 AM	Grab	dc	2/16/2009	12:26 PM		
SEI-331	CDEMDMW20-6	235.40	Rock	CDEMDMW20235.40VOC	Normal Sample	vld	2/16/2009	9:38 AM	Grab	dc	2/16/2009	12:27 PM		
SEI-332	CDEMDMW20-6	239.20	Rock	CDEMDMW20239.20VOC	Normal Sample	vld	2/16/2009	10:35 AM	Grab	dc	2/16/2009	12:27 PM		
SEI-333	CDEMDMW20-6	241.00	Rock	CDEMDMW20241.00VOC	Normal Sample	vld	2/16/2009	10:38 AM	Grab	dc	2/16/2009	12:28 PM		
SEI-334	CDEMDMW20-6	242.20	Rock	CDEMDMW20242.20VOC	Normal Sample	vld	2/16/2009	10:41 AM	Grab	dc	2/16/2009	12:29 PM		
SEI-335	CDEMDMW20FD	000.06	Rock	CDEMDMW20FD006VOC	Field Duplicate	vld	2/16/2009	8:52 AM	Grab	dc	2/16/2009	12:30 PM		
SEI-337	CDEMDMW20EB	000.06	Methanol Extract	CDEMDMW20EB006VOC	Equipment Blank	vld	2/16/2009	8:35 AM	Grab	dc	2/16/2009	12:32 PM		
SEI-338	CDEMDMW20-6	244.60	Rock	CDEMDMW20244.60VOC	Normal Sample	vld	2/16/2009	11:28 AM	Grab	dc	2/16/2009	3:37 PM		
SEI-339	CDEMDMW20-6	247.10	Rock	CDEMDMW20247.10VOC	Normal Sample	vld	2/16/2009	11:30 AM	Grab	dc	2/16/2009	3:39 PM		
SEI-340	CDEMDMW20-6	248.90	Rock	CDEMDMW20248.90VOC	Normal Sample	vld	2/16/2009	12:45 PM	Grab	dc	2/16/2009	3:41 PM		
SEI-341	CDEMDMW20-6	250.10	Rock	CDEMDMW20250.10VOC	Normal Sample	vld	2/16/2009	12:48 PM	Grab	dc	2/16/2009	3:42 PM		
SEI-342	CDEMDMW20-6	252.00	Rock	CDEMDMW20252.00VOC	Normal Sample	vld	2/16/2009	12:52 PM	Grab	dc	2/16/2009	3:43 PM		
SEI-343	CDEMDMW20-7	253.30	Rock	CDEMDMW20253.30VOC	Normal Sample	vld	2/16/2009	3:18 PM	Grab	dc	2/16/2009	4:15 PM		
SEI-344	CDEMDMW20-7	254.40	Rock	CDEMDMW20254.40VOC	Normal Sample	vld	2/16/2009	3:21 PM	Grab	dc	2/16/2009	4:17 PM		
SEI-345	CDEMDMW20-7	255.60	Rock	CDEMDMW20255.60VOC	Normal Sample	vld	2/16/2009	3:21 PM	Grab	dc	2/16/2009	4:18 PM		
SEI-346	CDEMDMW20-7	257.00	Rock	CDEMDMW20257.00VOC	Normal Sample	vld	2/16/2009	4:00 PM	Grab	dc	2/16/2009	4:19 PM		
SEI-348	CDEMDMW20-7	260.10	Rock	CDEMDMW20260.10VOC	Normal Sample	vld	2/17/2009	12:01 PM	Grab	bmh	2/17/2009	2:25 PM		
SEI-349	CDEMDMW20-7	261.90	Rock	CDEMDMW20261.90VOC	Normal Sample	vld	2/17/2009	12:04 PM	Grab	bmh	2/17/2009	2:26 PM		
SEI-350	CDEMDMW20-7	263.60	Rock	CDEMDMW20263.60VOC	Normal Sample	vld	2/17/2009	1:20 PM	Grab	bmh	2/17/2009	2:29 PM		
SEI-351	CDEMDMW20-7	265.20	Rock	CDEMDMW20265.20VOC	Normal Sample	vld	2/17/2009	1:24 PM	Grab	bmh	2/17/2009	2:31 PM		
SEI-352	CDEMDMW20-7	266.20	Rock	CDEMDMW20266.20VOC	Normal Sample	vld	2/17/2009	1:27 PM	Grab	bmh	2/17/2009	2:32 PM		
SEI-353	CDEMDMW20-7	268.70	Rock	CDEMDMW20268.70VOC	Normal Sample	vld	2/17/2009	2:14 PM	Grab	dc	2/17/2009	5:15 PM		SEI-353
SEI-353-MS	CDEMDMW20-7	268.70	Rock	CDEMDMW20268.70VOCMS	Matrix Spike	vld	2/17/2009	2:19 PM	Grab	dc	2/17/2009	5:15 PM		SEI-353
SEI-354	CDEMDMW20-7	270.40	Rock	CDEMDMW20270.40VOC	Normal Sample	vld	2/17/2009	2:25 PM	Grab	dc	2/17/2009	5:17 PM		
SEI-355	CDEMDMW20-7	272.00	Rock	CDEMDMW20272.00VOC	Normal Sample	vld	2/17/2009	2:27 PM	Grab	dc	2/17/2009	5:18 PM		
SEI-356	CDEMDMW20-7	273.60	Rock	CDEMDMW20273.60VOC	Normal Sample	vld	2/17/2009	3:03 PM	Grab	dc	2/17/2009	5:19 PM		
SEI-357	CDEMDMW20-7	276.60	Rock	CDEMDMW20276.60VOC	Normal Sample	vld	2/17/2009	3:06 PM	Grab	dc	2/17/2009	5:19 PM		
SEI-358	CDEMDMW20-7	279.20	Rock	CDEMDMW20279.20VOC	Normal Sample	vld	2/17/2009	4:45 PM	Grab	dc	2/17/2009	5:20 PM		
SEI-359	CDEMDMW20-7	281.50	Rock	CDEMDMW20281.50VOC	Normal Sample	vld	2/17/2009	4:47 PM	Grab	dc	2/17/2009	5:22 PM		
SEI-360	CDEMDMW20-7	282.70	Rock	CDEMDMW20282.70VOC	Normal Sample	vld	2/17/2009	4:49 PM	Grab	dc	2/17/2009	5:23 PM		
SEI-361	CDEMDMW20FD	000.07	Rock	CDEMDMW20FD007VOC	Field Duplicate	vld	2/17/2009	2:17 PM	Grab	dc	2/17/2009	5:24 PM		
SEI-364	CDEMDMW20EB	000.07	Methanol Extract	CDEMDMW20EB007VOC	Equipment Blank	vld	2/17/2009	2:19 PM	Grab	dc	2/17/2009	6:00 PM		
SEI-365	CDEMDMW20-7	284.40	Rock	CDEMDMW20284.40VOC	Normal Sample	vld	2/18/2009	9:52 AM	Grab	dc	2/18/2009	12:14 PM		
SEI-366	CDEMDMW20-7	285.60	Rock	CDEMDMW20285.60VOC	Normal Sample	vld	2/18/2009	9:55 AM	Grab	dc	2/18/2009	12:23 PM		
SEI-367	CDEMDMW20-7	288.30	Rock	CDEMDMW20288.30VOC	Normal Sample	vld	2/18/2009	11:03 AM	Grab	dc	2/18/2009	12:24 PM		
SEI-368	CDEMDMW20-8	290.40	Rock	CDEMDMW20290.40VOC	Normal Sample	vld	2/18/2009	11:06 AM	Grab	dc	2/18/2009	12:25 PM		
SEI-369	CDEMDMW20-8	291.80	Rock	CDEMDMW20291.80VOC	Normal Sample	vld	2/18/2009	11:09 AM	Grab	dc	2/18/2009	12:25 PM		
SEI-370	CDEMDMW20-8	295.50	Rock	CDEMDMW20295.50VOC	Normal Sample	vld	2/18/2009	11:55 AM	Grab	dc	2/18/2009	12:27 PM		
SEI-371	CDEMDMW20-8	297.60	Rock	CDEMDMW20297.60VOC	Normal Sample	vld	2/18/2009	11:57 AM	Grab	dc	2/18/2009	12:28 PM		
SEI-372	CDEMDMW20-8	298.10	Rock	CDEMDMW20298.10VOC	Normal Sample	vld	2/18/2009	1:36 PM	Grab		2/18/2009	4:11 PM		

R2-0016850

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID Parent
SEI-183	CDEMDMW20-1	029.10	Rock	CDEMDMW20029.10VOC	Normal Sample	LR	2/9/2009	3:51 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-184	CDEMDMW20-1	030.10	Rock	CDEMDMW20030.10VOC	Normal Sample	LR	2/9/2009	3:51 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-185	CDEMDMW20-1	030.85	Rock	CDEMDMW20030.85VOC	Normal Sample	LR	2/9/2009	3:56 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-186	CDEMDMW20-1	031.48	Rock	CDEMDMW20031.48VOC	Normal Sample	LR	2/9/2009	3:58 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-187	CDEMDMW20-1	035.10	Rock	CDEMDMW20035.10VOC	Normal Sample	LR	2/9/2009	4:25 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-188	CDEMDMW20-1	037.50	Rock	CDEMDMW20037.50VOC	Normal Sample	LR	2/9/2009	4:26 PM	Grab	bmh	2/9/2009	4:45 PM		
SEI-189	CDEMDMW20EB	000.01	Methanol Extract	CDEMDMW20EB001VOC	Equipment Blank	LR	2/10/2009	11:29 AM	Grab	bmh	2/10/2009	12:38 PM		
SEI-190	CDEMDMW20-1	038.70	Rock	CDEMDMW20038.70VOC	Normal Sample	LR	2/10/2009	8:38 AM	Grab	bmh	2/10/2009	12:40 PM		
SEI-191	CDEMDMW20-1	039.70	Rock	CDEMDMW20039.70VOC	Normal Sample	LR	2/10/2009	8:41 AM	Grab	bmh	2/10/2009	12:44 PM		
SEI-192	CDEMDMW20-1	040.40	Rock	CDEMDMW20040.40VOC	Normal Sample	LR	2/10/2009	8:44 AM	Grab	bmh	2/10/2009	12:46 PM		
SEI-193	CDEMDMW20-1	041.90	Rock	CDEMDMW20041.90VOC	Normal Sample	LR	2/10/2009	8:47 AM	Grab	bmh	2/10/2009	12:47 PM		
SEI-194	CDEMDMW20-1	043.80	Rock	CDEMDMW20043.80VOC	Normal Sample	LR	2/10/2009	9:20 AM	Grab	bmh	2/10/2009	12:48 PM		
SEI-195	CDEMDMW20-1	045.20	Rock	CDEMDMW20045.20VOC	Normal Sample	LR	2/10/2009	9:23 AM	Grab	bmh	2/10/2009	12:49 PM		
SEI-196	CDEMDMW20-1	046.20	Rock	CDEMDMW20046.20VOC	Normal Sample	LR	2/10/2009	9:26 AM	Grab	bmh	2/10/2009	12:50 PM		
SEI-197	CDEMDMW20-1	049.20	Rock	CDEMDMW20049.20VOC	Normal Sample	LR	2/10/2009	10:04 AM	Grab	bmh	2/10/2009	12:51 PM		
SEI-198	CDEMDMW20-1	049.70	Rock	CDEMDMW20049.70VOC	Normal Sample	LR	2/10/2009	10:07 AM	Grab	bmh	2/10/2009	12:52 PM		
SEI-199	CDEMDMW20-1	050.70	Rock	CDEMDMW20050.70VOC	Normal Sample	LR	2/10/2009	10:13 AM	Grab	bmh	2/10/2009	12:53 PM		
SEI-200	CDEMDMW20-1	051.70	Rock	CDEMDMW20051.70VOC	Normal Sample	LR	2/10/2009	10:13 AM	Grab	bmh	2/10/2009	12:54 PM		
SEI-201	CDEMDMW20-1	053.70	Rock	CDEMDMW20053.70VOC	Normal Sample	LR	2/10/2009	11:14 AM	Grab	bmh	2/10/2009	12:55 PM		
SEI-202	CDEMDMW20-1	055.70	Rock	CDEMDMW20055.70VOC	Normal Sample	LR	2/10/2009	11:17 AM	Grab	bmh	2/10/2009	12:56 PM		
SEI-203	CDEMDMW20MB	000.01	Methanol Extract	CDEMDMW20MB001VOC	Normal Sample	bt	2/10/2009	2:00 PM	Grab	mdr	2/10/2009	2:30 AM		
SEI-204	CDEMDMW20-1	058.50	Rock	CDEMDMW20058.50VOC	Normal Sample	LR	2/10/2009	12:21 PM	Grab	bmh	2/10/2009	4:54 PM		SEI-204
SEI-204-MS	CDEMDMW20-1	058.50	Rock	CDEMDMW20058.50VOC-MS	Matrix Spike	LR	2/10/2009	12:23 PM	Grab	bmh	2/10/2009	4:54 PM		SEI-204
SEI-205	CDEMDMW20FD	000.01	Rock	CDEMDMW20FD001VOC	Field Duplicate	LR	2/10/2009	12:22 PM	Grab	bmh	2/10/2009	4:56 PM		
SEI-209	CDEMDMW20-2	059.35	Rock	CDEMDMW20059.35VOC	Normal Sample	LR	2/10/2009	12:26 PM	Grab	bmh	2/10/2009	5:01 PM		
SEI-210	CDEMDMW20-2	059.90	Rock	CDEMDMW20059.90VOC	Normal Sample	LR	2/10/2009	12:28 PM	Grab	bmh	2/10/2009	5:02 PM		
SEI-211	CDEMDMW20-2	062.25	Rock	CDEMDMW20062.25VOC	Normal Sample	LR	2/10/2009	12:31 PM	Grab	bmh	2/10/2009	5:04 PM		
SEI-212	CDEMDMW20-2	063.90	Rock	CDEMDMW20063.90VOC	Normal Sample	LR	2/10/2009	2:29 PM	Grab	bmh	2/10/2009	5:05 PM		
SEI-213	CDEMDMW20-2	065.60	Rock	CDEMDMW20065.60VOC	Normal Sample	LR	2/10/2009	2:34 PM	Grab	bmh	2/10/2009	5:13 PM		
SEI-214	CDEMDMW20-2	066.70	Rock	CDEMDMW20066.70VOC	Normal Sample	LR	2/10/2009	2:37 PM	Grab	bmh	2/10/2009	5:14 PM		
SEI-215	CDEMDMW20-2	069.20	Rock	CDEMDMW20069.20VOC	Normal Sample	LR	2/10/2009	3:48 PM	Grab	bmh	2/10/2009	5:15 PM		
SEI-216	CDEMDMW20-2	070.40	Rock	CDEMDMW20070.40VOC	Normal Sample	LR	2/10/2009	3:51 PM	Grab	bmh	2/10/2009	5:16 PM		
SEI-217	CDEMDMW20-2	070.80	Rock	CDEMDMW20070.80VOC	Normal Sample	LR	2/10/2009	3:54 PM	Grab	bmh	2/10/2009	5:17 PM		
SEI-218	CDEMDMW20-2	072.15	Rock	CDEMDMW20072.15VOC	Normal Sample	LR	2/10/2009	3:57 PM	Grab	bmh	2/10/2009	5:18 PM		
SEI-219	CDEMDMW20-2	074.55	Rock	CDEMDMW20074.55VOC	Normal Sample	LR	2/10/2009	4:25 PM	Grab	bmh	2/10/2009	5:19 PM		
SEI-220	CDEMDMW20-2	075.30	Rock	CDEMDMW20075.30VOC	Normal Sample	LR	2/10/2009	4:27 PM	Grab	bmh	2/10/2009	5:19 PM		
SEI-221	CDEMDMW20-2	076.85	Rock	CDEMDMW20076.85VOC	Normal Sample	LR	2/10/2009	4:30 PM	Grab	bmh	2/10/2009	5:20 PM		
SEI-222	CDEMDMW20-2	080.50	Rock	CDEMDMW20080.50VOC	Normal Sample	lr	10/12/2009	9:50 AM	Grab	mdr	2/11/2009	11:40 AM		
SEI-223	CDEMDMW20-2	084.20	Rock	CDEMDMW20084.20VOC	Normal Sample	lr	10/12/2009	10:46 AM	Grab	mdr	2/11/2009	11:42 AM		
SEI-224	CDEMDMW20-2	085.30	Rock	CDEMDMW20085.30VOC	Normal Sample	lr	10/12/2009	10:49 AM	Grab	mdr	2/11/2009	11:44 AM		
SEI-225	CDEMDMW20-2	086.50	Rock	CDEMDMW20086.50VOC	Normal Sample	lr	10/12/2009	10:53 AM	Grab	mdr	2/11/2009	11:47 AM		
SEI-226	CDEMDMW20-2	088.90	Rock	CDEMDMW20088.90VOC	Normal Sample	lr	10/12/2009	11:46 AM	Grab	mdr	2/11/2009	2:20 PM		
SEI-227	CDEMDMW20-2	090.20	Rock	CDEMDMW20090.20VOC	Normal Sample	lr	10/12/2009	11:46 AM	Grab	mdr	2/11/2009	2:21 PM		
SEI-228	CDEMDMW20-2	090.75	Rock	CDEMDMW20090.75VOC	Normal Sample	lr	10/12/2009	11:49 AM	Grab	mdr	2/11/2009	2:23 PM		SEI-228
SEI-228-MS	CDEMDMW20-2	090.75	Rock	CDEMDMW20090.75VOC-MS	Matrix Spike	lr	10/12/2009	11:52 AM	Grab	mdr	2/11/2009	2:23 PM		SEI-228
SEI-229	CDEMDMW20FD	000.02	Rock	CDEMDMW20FD002VOC	Field Duplicate	lr	10/12/2009	11:51 AM	Grab	mdr	2/11/2009	2:23 PM		
SEI-232	CDEMDMW20EB	000.02	Methanol Extract	CDEMDMW20EB002VOC	Equipment Blank	lr	10/12/2009	11:56 AM	Grab	mdr	2/11/2009	2:30 PM		
SEI-233	CDEMDMW20-3	091.80	Rock	CDEMDMW20091.80VOC	Normal Sample	lr	10/12/2009	11:54 AM	Grab	mdr	2/11/2009	2:31 PM		
SEI-234	CDEMDMW20-3	094.25	Rock	CDEMDMW20094.25VOC	Normal Sample	lr	10/12/2009	1:11 PM	Grab	mdr	2/11/2009	2:32 PM		
SEI-235	CDEMDMW20-3	095.75	Rock	CDEMDMW20095.70VOC	Normal Sample	lr	10/12/2009	1:13 PM	Grab	mdr	2/11/2009	2:33 PM		
SEI-236	CDEMDMW20-3	097.00	Rock	CDEMDMW20097.00VOC	Normal Sample	lr	10/12/2009	1:15 PM	Grab	mdr	2/11/2009	2:34 PM		
SEI-237	CDEMDMW20-3	099.10	Rock	CDEMDMW20099.10VOC	Normal Sample	lr	10/12/2009	1:57 PM	Grab	mdr	2/11/2009	2:35 PM		
SEI-238	CDEMDMW20-3	099.80	Rock	CDEMDMW20099.80VOC	Normal Sample	lr	10/12/2009	1:59 PM	Grab	mdr	2/11/2009	2:36 PM		
SEI-239	CDEMDMW20-3	100.45	Rock	CDEMDMW20100.45VOC	Normal Sample	lr	10/12/2009	2:01 PM	Grab	mdr	2/11/2009	2:37 PM		
SEI-240	CDEMDMW20-3	101.80	Rock	CDEMDMW20101.80VOC	Normal Sample	lr	10/12/2009	2:04 PM	Grab	mdr	2/11/2009	2:37 PM		
SEI-241	CDEMDMW20EB	000.03	Methanol Extract	CDEMDMW20EB003VOC	Equipment Blank	ljr	2/11/2009	4:51 PM	Grab	mdr	2/12/2009	7:32 AM		
SEI-242	CDEMDMW20-3	104.70	Rock	CDEMDMW20104.70VOC	Normal Sample	ljr	2/11/2009	2:36 PM	Grab	mdr	2/12/2009	7:34 AM		
SEI-243	CDEMDMW20-3	105.85	Rock	CDEMDMW20105.85VOC	Normal Sample	ljr	2/11/2009	2:40 PM	Grab	mdr	2/12/2009	7:36 AM		
SEI-244	CDEMDMW20-3	106.45	Rock	CDEMDMW20106.45VOC	Normal Sample	ljr	2/11/2009	2:43 PM	Grab	mdr	2/12/2009	7:37 AM		

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID_Parent
SEI-245	CDEMDMW20-3	109.40	Rock	CDEMDMW20109.40VOC	Normal Sample	ljr	2/11/2009	3:15 PM	Grab	mdr	2/12/2009	7:38 AM		
SEI-246	CDEMDMW20-3	110.65	Rock	CDEMDMW20110.65.VOC	Normal Sample	ljr	2/11/2009	3:18 PM	Grab	mdr	2/12/2009	7:39 AM		
SEI-247	CDEMDMW20-3	112.20	Rock	CDEMDMW20112.20.VOC	Normal Sample	ljr	2/11/2009	3:20 PM	Grab	mdr	2/12/2009	7:42 AM		
SEI-248	CDEMDMW20-3	113.80	Rock	CDEMDMW20113.80VOC	Normal Sample	ljr	2/11/2009	3:51 PM	Grab	mdr	2/12/2009	7:43 AM		
SEI-249	CDEMDMW20-3	115.50	Rock	CDEMDMW20115.50VOC	Normal Sample	ljr	2/11/2009	3:53 PM	Grab	mdr	2/12/2009	7:44 AM		
SEI-250	CDEMDMW20-3	116.80	Rock	CDEMDMW20116.80VOC	Normal Sample	ljr	2/11/2009	3:56 PM	Grab	mdr	2/12/2009	7:45 AM		
SEI-251	CDEMDMW20-3	118.50	Rock	CDEMDMW20118.50VOC	Normal Sample	ljr	2/11/2009	4:39 PM	Grab	mdr	2/12/2009	7:46 AM		
SEI-252	CDEMDMW20-3	120.00	Rock	CDEMDMW20120.00VOC	Normal Sample	ljr	2/11/2009	4:42 PM	Grab	mdr	2/12/2009	7:46 AM		
SEI-253	CDEMDMW20-3	120.70	Rock	CDEMDMW20120.70VOC	Normal Sample	ljr	2/11/2009	4:44 PM	Grab	mdr	2/12/2009	7:47 AM		SEI-253
SEI-253-MS	CDEMDMW20-3	120.70	Rock	CDEMDMW20120.70VOC-MS	Matrix Spike	ljr	2/11/2009	4:46 PM	Grab	mdr	2/12/2009	7:47 AM		SEI-253
SEI-254	CDEMDMW20FD	000.03	Rock	CDEMDMW20FD003VOC	Field Duplicate	ljr	2/11/2009	4:45 PM	Grab	mdr	2/12/2009	7:48 AM		
SEI-258	CDEMDMW20-4	121.35	Rock	CDEMDMW20121.35VOC	Normal Sample	ljr	2/11/2009	4:48 PM	Grab	mdr	2/12/2009	7:55 AM		
SEI-259	CDEMDMW20-4	124.10	Rock	CDEMDMW20124.10VOC	Normal Sample	ljr	2/11/2009	5:17 PM	Grab	mdr	2/12/2009	8:01 AM		
SEI-260	CDEMDMW20-4	125.80	Rock	CDEMDMW20125.80VOC	Normal Sample	ljr	2/11/2009	5:19 PM	Grab	mdr	2/12/2009	8:02 AM		
SEI-261	CDEMDMW20-4	127.15	Rock	CDEMDMW20127.15VOC	Normal Sample	ljr	2/11/2009	5:21 PM	Grab	mdr	2/12/2009	8:02 AM		
SEI-264	CDEMDMW20-4	129.30	Rock	CDEMDMW20129.30VOC	Normal Sample	ljr	2/12/2009	8:40 AM	Grab	bmh	2/12/2009	9:51 AM		
SEI-265	CDEMDMW20-4	130.45	Rock	CDEMDMW20130.45VOC	Normal Sample	ljr	2/12/2009	8:42 AM	Grab	bmh	2/12/2009	9:59 AM		
SEI-266	CDEMDMW20-4	132.50	Rock	CDEMDMW20132.50VOC	Normal Sample	ljr	2/12/2009	8:46 AM	Grab	bmh	2/12/2009	10:00 AM		
SEI-268	CDEMDMW20-4	134.90	Rock	CDEMDMW20134.90VOC	Normal Sample	ljr	2/12/2009	9:17 AM	Grab	bmh	2/12/2009	10:08 AM		
SEI-269	CDEMDMW20-4	136.65	Rock	CDEMDMW20136.65VOC	Normal Sample	ljr	2/12/2009	9:20 AM	Grab	bmh	2/12/2009	10:09 AM		
SEI-270	CDEMDMW20EB	000.04	Methanol Extract	CDEMDMW20EB004VOC	Equipment Blank	lr	2/12/2009	1:18 PM	Grab	mdr	2/12/2009	2:52 PM		
SEI-271	CDEMDMW20-4	139.40	Rock	CDEMDMW20139.40VOC	Normal Sample	lr	2/12/2009	9:55 AM	Grab	mdr	2/12/2009	2:55 PM		
SEI-272	CDEMDMW20-4	140.40	Rock	CDEMDMW20140.40VOC	Normal Sample	lr	2/12/2009	9:58 AM	Grab	mdr	2/12/2009	2:56 PM		
SEI-273	CDEMDMW20-4	142.60	Rock	CDEMDMW20142.60VOC	Normal Sample	lr	2/12/2009	10:01 AM	Grab	mdr	2/12/2009	2:57 PM		
SEI-274	CDEMDMW20-4	143.00	Rock	CDEMDMW20143.00VOC	Normal Sample	lr	2/12/2009	10:41 AM	Grab	mdr	2/12/2009	2:58 PM		
SEI-275	CDEMDMW20-4	145.50	Rock	CDEMDMW20145.50VOC	Normal Sample	lr	2/12/2009	11:08 AM	Grab	mdr	2/12/2009	2:58 PM		
SEI-276	CDEMDMW20-4	147.00	Rock	CDEMDMW20147.00VOC	Normal Sample	lr	2/12/2009	11:11 AM	Grab	mdr	2/12/2009	2:59 PM		
SEI-277	CDEMDMW20-4	149.30	Rock	CDEMDMW20149.30VOC	Normal Sample	lr	2/12/2009	12:00 PM	Grab	mdr	2/12/2009	3:00 PM		
SEI-278	CDEMDMW20-4	150.10	Rock	CDEMDMW20150.10VOC	Normal Sample	lr	2/12/2009	12:03 PM	Grab	mdr	2/12/2009	3:01 PM		
SEI-279	CDEMDMW20-4	152.00	Rock	CDEMDMW20152.00VOC	Normal Sample	lr	2/12/2009	12:06 PM	Grab	mdr	2/12/2009	3:02 PM		
SEI-280	CDEMDMW20-4	154.30	Rock	CDEMDMW20154.30VOC	Normal Sample	lr	2/12/2009	1:27 PM	Grab	mdr	2/12/2009	3:02 PM		
SEI-281	CDEMDMW20-4	156.15	Rock	CDEMDMW20156.15VOC	Normal Sample	lr	2/12/2009	1:29 PM	Grab	mdr	2/12/2009	3:04 PM		
SEI-282	CDEMDMW20FD	000.04	Rock	CDEMDMW20FD004VOC	Field Duplicate	lr	2/12/2009	1:31 PM	Grab	mdr	2/12/2009	3:05 PM		
SEI-283	CDEMDMW20-4	157.20	Rock	CDEMDMW20157.20VOC	Normal Sample	lr	2/12/2009	1:37 PM	Grab	mdr	2/12/2009	3:06 PM		SEI-283
SEI-283-MS	CDEMDMW20-4	157.20	Rock	CDEMDMW20157.20VOC-MS	Matrix Spike	lr	2/12/2009	1:38 PM	Grab	mdr	2/12/2009	3:06 PM		SEI-283
SEI-284	CDEMDMW20-4	159.50	Rock	CDEMDMW20159.50VOC	Normal Sample	lr	2/12/2009	2:11 PM	Grab	mdr	2/12/2009	3:06 PM		
SEI-285	CDEMDMW20-5	161.00	Rock	CDEMDMW20161.00VOC	Normal Sample	lr	2/12/2009	2:14 PM	Grab	mdr	2/12/2009	3:08 PM		
SEI-286	CDEMDMW20-5	162.40	Rock	CDEMDMW20162.40VOC	Normal Sample	lr	2/12/2009	2:17 PM	Grab	mdr	2/12/2009	3:09 PM		
SEI-288	CDEMDMW20-5	164.50	Rock	CDEMDMW20164.50VOC	Normal Sample	ljr	2/12/2009	2:58 PM	Grab	bmh	2/13/2009	8:11 AM		
SEI-289	CDEMDMW20-5	166.70	Rock	CDEMDMW20166.70VOC	Normal Sample	ljr	2/12/2009	3:01 PM	Grab	bmh	2/13/2009	8:13 AM		
SEI-290	CDEMDMW20-5	168.80	Rock	CDEMDMW20168.80VOC	Normal Sample	ljr	2/12/2009	3:34 PM	Grab	bmh	2/13/2009	8:15 AM		
SEI-291	CDEMDMW20-5	170.40	Rock	CDEMDMW20170.40VOC	Normal Sample	ljr	2/12/2009	3:37 PM	Grab	bmh	2/13/2009	8:16 AM		
SEI-292	CDEMDMW20-5	171.90	Rock	CDEMDMW20171.90VOC	Normal Sample	ljr	2/12/2009	3:39 PM	Grab	bmh	2/13/2009	8:17 AM		
SEI-293	CDEMDMW20-5	174.00	Rock	CDEMDMW20174.00VOC	Normal Sample	ljr	2/12/2009	4:20 PM	Grab	bmh	2/13/2009	8:19 AM		
SEI-294	CDEMDMW20-5	176.00	Rock	CDEMDMW20176.00VOC	Normal Sample	ljr	2/12/2009	4:23 PM	Grab	bmh	2/13/2009	8:19 AM		
SEI-295	CDEMDMW20-5	178.40	Rock	CDEMDMW20178.40VOC	Normal Sample	ljr	2/12/2009	5:06 PM	Grab	bmh	2/13/2009	8:21 AM		
SEI-296	CDEMDMW20-5	180.70	Rock	CDEMDMW20180.70VOC	Normal Sample	ljr	2/12/2009	5:09 PM	Grab	bmh	2/13/2009	8:23 AM		
SEI-297	CDEMDMW20-5	182.40	Rock	CDEMDMW20182.40VOC	Normal Sample	ljr	2/12/2009	5:11 PM	Grab	bmh	2/13/2009	8:24 AM		
SEI-298	CDEMDMW20-5	184.65	Rock	CDEMDMW20184.65VOC	Normal Sample	ljr	2/12/2009	5:54 PM	Grab	bmh	2/13/2009	8:25 AM		
SEI-299	CDEMDMW20-5	187.60	Rock	CDEMDMW20187.60VOC	Normal Sample	ljr	2/12/2009	5:57 PM	Grab	bmh	2/13/2009	8:27 AM		
SEI-300	CDEMDMW20MB	000.02	Methanol Extract	CDEMDMW20MB002VOC	Normal Sample	lr	2/12/2009	12:25 PM	Grab	mdr	2/12/2009	1:00 AM	lot g49e42	
SEI-301	CDEMDMW20EB	000.05	Methanol Extract	cdemdmw20eb005voc	Equipment Blank	LR	2/13/2009	8:37 AM	Grab	MDR	2/13/2009	2:23 PM		
SEI-302	CDEMDMW20-5	188.70	Rock	CDEMDMW20188.70VOC	Normal Sample	LR	2/13/2009	8:26 AM	Grab	MDR	2/13/2009	2:24 PM		
SEI-303	CDEMDMW20-5	190.60	Rock	CDEMDMW20190.60VOC	Normal Sample	LR	2/13/2009	8:28 AM	Grab	MDR	2/13/2009	2:26 PM		
SEI-304	CDEMDMW20-5	192.30	Rock	CDEMDMW20192.30VOC	Normal Sample	LR	2/13/2009	8:34 AM	Grab	MDR	2/13/2009	2:26 PM		SEI-304
SEI-304-MS	CDEMDMW20-5	192.30	Rock	CDEMDMW20192.30VOC-MS	Matrix Spike	LR	2/13/2009	8:34 AM	Grab	MDR	2/13/2009	2:26 PM		SEI-304
SEI-305	CDEMDMW20FD	000.05	Rock	CDEMDMW20FD005VOC	Field Duplicate	LR	2/13/2009	8:33 AM	Grab	MDR	2/13/2009	2:29 PM		
SEI-308	CDEMDMW20-5	194.80	Rock	CDEMDMW20194.80VOC	Normal Sample	LR	2/13/2009	9:21 AM	Grab	MDR	2/13/2009	2:38 PM		
SEI-309	CDEMDMW20-5	197.10	Rock	CDEMDMW20197.10VOC	Normal Sample	LR	2/13/2009	9:24 AM	Grab	MDR	2/13/2009	2:39 PM		

R2-0016852

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID_Parent
SEI-310	CDEMDMW20-5	198.85	Rock	CDEMDMW20198.85VOC	Normal Sample	LR	2/13/2009	10:05 AM	Grab	MDR	2/13/2009	2:40 PM		
SEI-311	CDEMDMW20-5	200.50	Rock	CDEMDMW20200.50VOC	Normal Sample	LR	2/13/2009	10:07 AM	Grab	MDR	2/13/2009	2:41 PM		
SEI-312	CDEMDMW20-5	202.15	Rock	CDEMDMW20202.15VOC	Normal Sample	LR	2/13/2009	10:10 AM	Grab	MDR	2/13/2009	2:42 PM		
SEI-313	CDEMDMW20-5	204.90	Rock	CDEMDMW20204.90VOC	Normal Sample	LR	2/13/2009	10:46 AM	Grab	MDR	2/13/2009	2:43 PM		
SEI-314	CDEMDMW20-5	206.50	Rock	CDEMDMW20206.50VOC	Normal Sample	LR	2/13/2009	10:48 AM	Grab	MDR	2/13/2009	2:44 PM		
SEI-315	CDEMDMW20-5	209.30	Rock	CDEMDMW20209.30VOC	Normal Sample	ljr	2/13/2009	11:26 AM	Grab	bmh	2/13/2009	3:30 PM		
SEI-316	CDEMDMW20-5	210.55	Rock	CDEMDMW20210.55VOC	Normal Sample	ljr	2/13/2009	11:28 AM	Grab	bmh	2/13/2009	3:30 PM		
SEI-317	CDEMDMW20-5	211.80	Rock	CDEMDMW20211.80VOC	Normal Sample	ljr	2/13/2009	11:31 AM	Grab	bmh	2/13/2009	3:30 PM		
SEI-318	CDEMDMW20-6	214.55	Rock	CDEMDMW20214.55VOC	Normal Sample	ljr	2/13/2009	1:09 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-319	CDEMDMW20-6	217.20	Rock	CDEMDMW20217.20VOC	Normal Sample	ljr	2/13/2009	1:13 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-320	CDEMDMW20-6	219.70	Rock	CDEMDMW20219.70VOC	Normal Sample	ljr	2/13/2009	2:19 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-321	CDEMDMW20-6	221.55	Rock	CDEMDMW20221.55VOC	Normal Sample	ljr	2/13/2009	2:21 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-322	CDEMDMW20-6	222.30	Rock	CDEMDMW20222.30VOC	Normal Sample	ljr	2/13/2009	2:23 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-323	CDEMDMW20-6	224.80	Rock	CDEMDMW20224.80VOC	Normal Sample	ljr	2/13/2009	2:57 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-324	CDEMDMW20-6	227.30	Rock	CDEMDMW20227.30VOC	Normal Sample	ljr	2/13/2009	3:00 PM	Grab	bmh	2/13/2009	3:30 PM		
SEI-327	CDEMDMW20-6	228.80	Rock	CDEMDMW20228.80VOC	Normal Sample	vld	2/16/2009	8:42 AM	Grab	dc	2/16/2009	12:21 PM		
SEI-328	CDEMDMW20-6	230.10	Rock	CDEMDMW20230.10VOC	Normal Sample	vld	2/16/2009	8:48 AM	Grab	dc	2/16/2009	12:24 PM		
SEI-329	CDEMDMW20-6	231.40	Rock	CDEMDMW20231.40VOC	Normal Sample	vld	2/16/2009	8:51 AM	Grab	dc	2/16/2009	12:25 PM		SEI-329
SEI-329-MS	CDEMDMW20-6	231.40	Rock	CDEMDMW20231.40VOCMS	Matrix Spike	vld	2/16/2009	8:56 AM	Grab	dc	2/16/2009	12:25 PM		SEI-329
SEI-330	CDEMDMW20-6	234.00	Rock	CDEMDMW20234.00VOC	Normal Sample	vld	2/16/2009	9:35 AM	Grab	dc	2/16/2009	12:26 PM		
SEI-331	CDEMDMW20-6	235.40	Rock	CDEMDMW20235.40VOC	Normal Sample	vld	2/16/2009	9:38 AM	Grab	dc	2/16/2009	12:27 PM		
SEI-332	CDEMDMW20-6	239.20	Rock	CDEMDMW20239.20VOC	Normal Sample	vld	2/16/2009	10:35 AM	Grab	dc	2/16/2009	12:27 PM		
SEI-333	CDEMDMW20-6	241.00	Rock	CDEMDMW20241.00VOC	Normal Sample	vld	2/16/2009	10:38 AM	Grab	dc	2/16/2009	12:28 PM		
SEI-334	CDEMDMW20-6	242.20	Rock	CDEMDMW20242.20VOC	Normal Sample	vld	2/16/2009	10:41 AM	Grab	dc	2/16/2009	12:29 PM		
SEI-335	CDEMDMW20FD	000.06	Rock	CDEMDMW20FD006VOC	Field Duplicate	vld	2/16/2009	8:52 AM	Grab	dc	2/16/2009	12:30 PM		
SEI-337	CDEMDMW20EB	000.06	Methanol Extract	CDEMDMW20EB006VOC	Equipment Blank	vld	2/16/2009	8:35 AM	Grab	dc	2/16/2009	12:32 PM		
SEI-338	CDEMDMW20-6	244.60	Rock	CDEMDMW20244.60VOC	Normal Sample	vld	2/16/2009	11:28 AM	Grab	dc	2/16/2009	3:37 PM		
SEI-339	CDEMDMW20-6	247.10	Rock	CDEMDMW20247.10VOC	Normal Sample	vld	2/16/2009	11:30 AM	Grab	dc	2/16/2009	3:39 PM		
SEI-340	CDEMDMW20-6	248.90	Rock	CDEMDMW20248.90VOC	Normal Sample	vld	2/16/2009	12:45 PM	Grab	dc	2/16/2009	3:41 PM		
SEI-341	CDEMDMW20-6	250.10	Rock	CDEMDMW20250.10VOC	Normal Sample	vld	2/16/2009	12:48 PM	Grab	dc	2/16/2009	3:42 PM		
SEI-342	CDEMDMW20-6	252.00	Rock	CDEMDMW20252.00VOC	Normal Sample	vld	2/16/2009	12:52 PM	Grab	dc	2/16/2009	3:43 PM		
SEI-343	CDEMDMW20-7	253.30	Rock	CDEMDMW20253.30VOC	Normal Sample	vld	2/16/2009	3:18 PM	Grab	dc	2/16/2009	4:15 PM		
SEI-344	CDEMDMW20-7	254.40	Rock	CDEMDMW20254.40VOC	Normal Sample	vld	2/16/2009	3:21 PM	Grab	dc	2/16/2009	4:17 PM		
SEI-345	CDEMDMW20-7	255.60	Rock	CDEMDMW20255.60VOC	Normal Sample	vld	2/16/2009	3:21 PM	Grab	dc	2/16/2009	4:18 PM		
SEI-346	CDEMDMW20-7	257.00	Rock	CDEMDMW20257.00VOC	Normal Sample	vld	2/16/2009	4:00 PM	Grab	dc	2/16/2009	4:19 PM		
SEI-348	CDEMDMW20-7	260.10	Rock	CDEMDMW20260.10VOC	Normal Sample	vld	2/17/2009	12:01 PM	Grab	bmh	2/17/2009	2:25 PM		
SEI-349	CDEMDMW20-7	261.90	Rock	CDEMDMW20261.90VOC	Normal Sample	vld	2/17/2009	12:04 PM	Grab	bmh	2/17/2009	2:26 PM		
SEI-350	CDEMDMW20-7	263.60	Rock	CDEMDMW20263.60VOC	Normal Sample	vld	2/17/2009	1:20 PM	Grab	bmh	2/17/2009	2:29 PM		
SEI-351	CDEMDMW20-7	265.20	Rock	CDEMDMW20265.20VOC	Normal Sample	vld	2/17/2009	1:24 PM	Grab	bmh	2/17/2009	2:31 PM		
SEI-352	CDEMDMW20-7	266.20	Rock	CDEMDMW20266.20VOC	Normal Sample	vld	2/17/2009	1:27 PM	Grab	bmh	2/17/2009	2:32 PM		
SEI-353	CDEMDMW20-7	268.70	Rock	CDEMDMW20268.70VOC	Normal Sample	vld	2/17/2009	2:14 PM	Grab	dc	2/17/2009	5:15 PM		SEI-353
SEI-353-MS	CDEMDMW20-7	268.70	Rock	CDEMDMW20268.70VOCMS	Matrix Spike	vld	2/17/2009	2:19 PM	Grab	dc	2/17/2009	5:15 PM		SEI-353
SEI-354	CDEMDMW20-7	270.40	Rock	CDEMDMW20270.40VOC	Normal Sample	vld	2/17/2009	2:25 PM	Grab	dc	2/17/2009	5:17 PM		
SEI-355	CDEMDMW20-7	272.00	Rock	CDEMDMW20272.00VOC	Normal Sample	vld	2/17/2009	2:27 PM	Grab	dc	2/17/2009	5:18 PM		
SEI-356	CDEMDMW20-7	273.60	Rock	CDEMDMW20273.60VOC	Normal Sample	vld	2/17/2009	3:03 PM	Grab	dc	2/17/2009	5:19 PM		
SEI-357	CDEMDMW20-7	276.60	Rock	CDEMDMW20276.60VOC	Normal Sample	vld	2/17/2009	3:06 PM	Grab	dc	2/17/2009	5:19 PM		
SEI-358	CDEMDMW20-7	279.20	Rock	CDEMDMW20279.20VOC	Normal Sample	vld	2/17/2009	4:45 PM	Grab	dc	2/17/2009	5:20 PM		
SEI-359	CDEMDMW20-7	281.50	Rock	CDEMDMW20281.50VOC	Normal Sample	vld	2/17/2009	4:47 PM	Grab	dc	2/17/2009	5:22 PM		
SEI-360	CDEMDMW20-7	282.70	Rock	CDEMDMW20282.70VOC	Normal Sample	vld	2/17/2009	4:49 PM	Grab	dc	2/17/2009	5:23 PM		
SEI-361	CDEMDMW20FD	000.07	Rock	CDEMDMW20FD007VOC	Field Duplicate	vld	2/17/2009	2:17 PM	Grab	dc	2/17/2009	5:24 PM		
SEI-364	CDEMDMW20EB	000.07	Methanol Extract	CDEMDMW20EB007VOC	Equipment Blank	vld	2/17/2009	2:19 PM	Grab	dc	2/17/2009	6:00 PM		
SEI-365	CDEMDMW20-7	284.40	Rock	CDEMDMW20284.40VOC	Normal Sample	vld	2/18/2009	9:52 AM	Grab	dc	2/18/2009	12:14 PM		
SEI-366	CDEMDMW20-7	285.60	Rock	CDEMDMW20285.60VOC	Normal Sample	vld	2/18/2009	9:55 AM	Grab	dc	2/18/2009	12:23 PM		
SEI-367	CDEMDMW20-7	288.30	Rock	CDEMDMW20288.30VOC	Normal Sample	vld	2/18/2009	11:03 AM	Grab	dc	2/18/2009	12:24 PM		
SEI-368	CDEMDMW20-8	290.40	Rock	CDEMDMW20290.40VOC	Normal Sample	vld	2/18/2009	11:06 AM	Grab	dc	2/18/2009	12:25 PM		
SEI-369	CDEMDMW20-8	291.80	Rock	CDEMDMW20291.80VOC	Normal Sample	vld	2/18/2009	11:09 AM	Grab	dc	2/18/2009	12:25 PM		
SEI-370	CDEMDMW20-8	295.50	Rock	CDEMDMW20295.50VOC	Normal Sample	vld	2/18/2009	11:55 AM	Grab	dc	2/18/2009	12:27 PM		
SEI-371	CDEMDMW20-8	297.60	Rock	CDEMDMW20297.60VOC	Normal Sample	vld	2/18/2009	11:57 AM	Grab	dc	2/18/2009	12:28 PM		
SEI-372	CDEMDMW20-8	298.10	Rock	CDEMDMW20298.10VOC	Normal Sample	vld	2/18/2009	1:36 PM	Grab		2/18/2009	4:11 PM		

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID_Parent
SEI-373	CDEMDMW20-8	301.30	Rock	CDEMDMW20301.30VOC	Normal Sample	vld	2/18/2009	1:39 PM	Grab	dc	2/18/2009	4:12 PM		
SEI-374	CDEMDMW20-8	303.20	Rock	CDEMDMW20303.20VOC	Normal Sample	vld	2/18/2009	2:32 PM	Grab	dc	2/18/2009	4:13 PM		
SEI-375	CDEMDMW20-8	305.20	Rock	CDEMDMW20305.20VOC	Normal Sample	vld	2/18/2009	2:35 PM	Grab	dc	2/18/2009	4:14 PM		
SEI-376	CDEMDMW20-8	306.50	Rock	CDEMDMW20306.50VOC	Normal Sample	vld	2/18/2009	2:37 PM	Grab	dc	2/18/2009	4:15 PM		
SEI-377	CDEMDMW20EB	000.08	Methanol Extract	CDEMDMW20EB008VOC	Equipment Blank	vld	2/18/2009	3:26 PM	Grab	dc	2/18/2009	4:56 PM		
SEI-378	CDEMDMW20-8	310.60	Rock	CDEMDMW20310.60VOC	Normal Sample	vld	2/18/2009	3:39 PM	Grab	dc	2/18/2009	4:57 PM		SEI-378
SEI-378-MS	CDEMDMW20-8	310.60	Rock	CDEMDMW20310.60VOC-MS	Matrix Spike	vld	2/18/2009	3:43 PM	Grab	dc	2/18/2009	4:57 PM		SEI-378
SEI-379	CDEMDMW20FD	000.08	Rock	CDEMDMW20FD008VOC	Field Duplicate	vld	2/18/2009	3:42 PM	Grab	dc	2/18/2009	4:58 PM		
SEI-381	CDEMDMW20-8	311.70	Rock	CDEMDMW20311.70VOC	Normal Sample	vld	2/18/2009	3:46 PM	Grab	dc	2/18/2009	5:00 PM		
SEI-382	CDEMDMW20-8	314.20	Rock	CDEMDMW20314.20VOC	Normal Sample	vld	2/18/2009	4:25 PM	Grab	dc	2/18/2009	5:01 PM		
SEI-383	CDEMDMW20-8	315.60	Rock	CDEMDMW20315.60VOC	Normal Sample	vld	2/18/2009	4:28 PM	Grab	dc	2/18/2009	5:02 PM		
SEI-384	CDEMDMW20-8	317.30	Rock	CDEMDMW20317.30VOC	Normal Sample	vld	2/18/2009	4:30 PM	Grab	dc	2/18/2009	5:03 PM		
SEI-385	CDEMDMW20-8	319.30	Rock	CDEMDMW20319.30VOC	Normal Sample	vld	2/19/2009	9:05 AM	Grab	dc	2/19/2009	11:54 AM		
SEI-386	CDEMDMW20-8	320.80	Rock	CDEMDMW20320.80VOC	Normal Sample	vld	2/19/2009	9:07 AM	Grab	dc	2/19/2009	11:56 AM		
SEI-387	CDEMDMW20-8	323.70	Rock	CDEMDMW20323.70VOC	Normal Sample	vld	2/19/2009	10:22 AM	Grab	dc	2/19/2009	11:57 AM		
SEI-388	CDEMDMW20-8	325.80	Rock	CDEMDMW20325.80VOC	Normal Sample	vld	2/19/2009	10:24 AM	Grab	dc	2/19/2009	11:58 AM		
SEI-389	CDEMDMW20-8	327.20	Rock	CDEMDMW20327.20VOC	Normal Sample	vld	2/19/2009	10:26 AM	Grab	dc	2/19/2009	11:59 AM		
SEI-390	CDEMDMW20-8	329.00	Rock	CDEMDMW20329.00VOC	Normal Sample	vld	2/19/2009	11:19 AM	Grab	dc	2/19/2009	12:00 PM		
SEI-391	CDEMDMW20-9	331.90	Rock	CDEMDMW20331.90VOC	Normal Sample	vld	2/19/2009	11:22 AM	Grab	dc	2/19/2009	12:02 PM		
SEI-392	CDEMDMW20-9	334.00	Rock	CDEMDMW20334.00VOC	Normal Sample	vld	2/19/2009	2:26 PM	Grab	dc	2/19/2009	4:44 PM		
SEI-393	CDEMDMW20-9	335.60	Rock	CDEMDMW20335.60VOC	Normal Sample	vld	2/19/2009	2:28 PM	Grab	dc	2/19/2009	4:48 PM		
SEI-394	CDEMDMW20-9	337.10	Rock	CDEMDMW20337.10VOC	Normal Sample	vld	2/19/2009	2:30 PM	Grab	dc	2/19/2009	4:49 PM		
SEI-395	CDEMDMW20-9	339.60	Rock	CDEMDMW20339.60VOC	Normal Sample	vld	2/19/2009	3:25 PM	Grab	dc	2/19/2009	4:50 PM		
SEI-396	CDEMDMW20-9	341.20	Rock	CDEMDMW20341.20VOC	Normal Sample	vld	2/19/2009	3:28 PM	Grab	dc	2/19/2009	4:52 PM		SEI-396
SEI-396-LD	CDEMDMW20-9	341.20	Rock	CDEMDMW20341.20VOC-LD	Lab Dup	vld	2/19/2009	3:28 PM	Grab	dc	2/19/2009	4:52 PM		SEI-396
SEI-397	CDEMDMW20-9	344.20	Rock	CDEMDMW20344.20VOC	Normal Sample	vld	2/19/2009	4:15 PM	Grab	dc	2/19/2009	4:53 PM		SEI-397
SEI-397-LD	CDEMDMW20-9	344.20	Rock	CDEMDMW20344.20VOC-LD	Lab Dup	vld	2/19/2009	4:15 PM	Grab	dc	2/19/2009	4:53 PM		SEI-397
SEI-398	CDEMDMW20-9	345.70	Rock	CDEMDMW20345.70VOC	Normal Sample	vld	2/19/2009	4:17 PM	Grab	dc	2/19/2009	4:53 PM		SEI-398
SEI-398-LD	CDEMDMW20-9	345.70	Rock	CDEMDMW20345.70VOC-LD	Lab Dup	vld	2/19/2009	4:17 PM	Grab	dc	2/19/2009	4:53 PM		SEI-398
SEI-399	CDEMDMW20-9	347.50	Rock	CDEMDMW20347.50VOC	Normal Sample	vld	2/19/2009	4:20 PM	Grab	dc	2/19/2009	4:54 PM		SEI-399
SEI-400	CDEMDMW20-9	362.40	Rock	CDEMDMW20362.40VOC	Normal Sample	vld	2/20/2009	11:32 AM	Grab	dc	2/20/2009	11:56 AM		
SEI-401	CDEMDMW20-9	361.00	Rock	CDEMDMW20361.00VOC	Normal Sample	vld	2/20/2009	11:30 AM	Grab	dc	2/20/2009	12:07 PM		
SEI-402	CDEMDMW20-9	349.30	Rock	CDEMDMW20349.30VOC	Normal Sample	vld	2/20/2009	9:34 AM	Grab	dc	2/20/2009	12:09 PM		SEI-402
SEI-402-MS	CDEMDMW20-9	349.30	Rock	CDEMDMW20349.30VOC-MS	Matrix Spike	vld	2/20/2009	9:36 AM	Grab	dc	2/20/2009	12:09 PM		SEI-402
SEI-403	CDEMDMW20-9	351.30	Rock	CDEMDMW20351.30VOC	Normal Sample	vld	2/20/2009	9:39 AM	Grab	dc	2/20/2009	12:10 PM		
SEI-404	CDEMDMW20-9	354.00	Rock	CDEMDMW20354.00VOC	Normal Sample	vld	2/20/2009	10:30 AM	Grab	dc	2/20/2009	12:11 PM		
SEI-405	CDEMDMW20-9	355.30	Rock	CDEMDMW20355.30VOC	Normal Sample	vld	2/20/2009	10:32 AM	Grab	dc	2/20/2009	12:12 PM		
SEI-406	CDEMDMW20-9	357.00	Rock	CDEMDMW20357.00VOC	Normal Sample	vld	2/20/2009	10:34 AM	Grab	mjg	2/20/2009	12:12 PM		SEI-406
SEI-406-LD	CDEMDMW20-9	357.00	Rock	CDEMDMW20357.00VOC-LD	Lab Dup	vld	2/20/2009	10:34 AM	Grab	mjg	2/20/2009	12:12 PM		SEI-406
SEI-407	CDEMDMW20-9	359.50	Rock	CDEMDMW20359.50VOC	Normal Sample	vld	2/20/2009	11:28 AM	Grab	mjg	2/20/2009	12:16 PM		SEI-407
SEI-407-LD	CDEMDMW20-9	359.50	Rock	CDEMDMW20359.50VOC-LD	Lab Dup	vld	2/20/2009	11:28 AM	Grab	mjg	2/20/2009	12:16 PM		SEI-407
SEI-408	CDEMDMW20FD	000.09	Rock	CDEMDMW20FD009VOC	Field Duplicate	vld	2/20/2009	9:35 AM	Grab	mjg	2/20/2009	12:18 PM		
SEI-410	CDEMDMW20EB	000.09	Methanol Extract	CDEMDMW20EB009VOC	Equipment Blank	vld	2/20/2009	9:16 AM	Grab	mjg	2/20/2009	12:22 PM		
SEI-411	CDEMDMW20-9	364.00	Rock	CDEMDMW20364.00VOC	Normal Sample	vld	2/20/2009	1:06 PM	Grab	mjg	2/20/2009	3:20 PM		
SEI-412	CDEMDMW20-9	366.00	Rock	CDEMDMW20366.00VOC	Normal Sample	vld	2/20/2009	1:09 PM	Grab	mjg	2/20/2009	3:21 PM		
SEI-413	CDEMDMW20-9	369.00	Rock	CDEMDMW20369.00VOC	Normal Sample	vld	2/20/2009	2:06 PM	Grab	mjg	2/20/2009	3:23 PM		
SEI-414	CDEMDMW20-9	370.50	Rock	CDEMDMW20370.50VOC	Normal Sample	vld	2/20/2009	2:09 PM	Grab	mjg	2/20/2009	3:24 PM		
SEI-415	CDEMDMW20-9	371.80	Rock	CDEMDMW20371.80VOC	Normal Sample	vld	2/20/2009	2:11 PM	Grab	mjg	2/20/2009	3:24 PM		
SEI-416	CDEMDMW20-9	373.50	Rock	CDEMDMW20373.50VOC	Normal Sample	vld	2/20/2009	2:56 PM	Grab	mjg	2/20/2009	3:25 PM		
SEI-417	CDEMDMW20-9	376.10	Rock	CDEMDMW20376.10VOC	Normal Sample	vld	2/20/2009	2:58 PM	Grab	mjg	2/20/2009	3:26 PM		
SEI-425	CDEMDMW20-10	379.00	Rock	CDEMDMW20379.00VOC	Normal Sample	vld	2/23/2009	9:30 AM	Grab	bmh	2/23/2009	12:43 PM		
SEI-426	CDEMDMW20-10	380.50	Rock	CDEMDMW20380.50VOC	Normal Sample	vld	2/23/2009	9:32 AM	Grab	bmh	2/23/2009	12:46 PM		
SEI-427	CDEMDMW20-10	381.51	Rock	CDEMDMW20381.50VOC	Normal Sample	vld	2/23/2009	9:35 AM	Grab	bmh	2/23/2009	12:47 PM		
SEI-428	CDEMDMW20-10	384.30	Rock	CDEMDMW20384.30VOC	Normal Sample	vld	2/23/2009	10:23 AM	Grab	bmh	2/23/2009	12:49 PM		
SEI-429	CDEMDMW20-10	387.10	Rock	CDEMDMW20387.10VOC	Normal Sample	vld	2/23/2009	10:23 AM	Grab	bmh	2/23/2009	12:50 PM		SEI-429
SEI-429-MS	CDEMDMW20-10	387.10	Rock	CDEMDMW20387.10VOC-MS	Matrix Spike	vld	2/23/2009	10:25 AM	Grab	bmh	2/23/2009	12:50 PM		SEI-429
SEI-430	CDEMDMW20-92	000.10	Rock	CDEMDMW20FD010VOC	Field Duplicate	vld	2/23/2009	10:24 AM	Grab	bmh	2/23/2009	12:51 PM		
SEI-433	CDEMDMW20-92	000.10	Rock	CDEMDMW20EB010VOC	Equipment Blank	vld	2/23/2009	10:14 AM	Grab	bmh	2/23/2009	12:56 PM		
SEI-434	CDEMDMW20-10	389.50	Rock	CDEMDMW20389.50VOC	Normal Sample	vld	2/23/2009	11:22 AM	Grab	bmh	2/23/2009	12:57 PM		

R2-0016854

LabID	LocationID	Depth	Matrix	SampleName	SampleCode	CollectedBy	CollectedDate	CollectedTime	CollectionMethod	ReceivedBy	ReceivedDate	ReceivedTime	Comments	LabID Parent
SEI-435	CDEMDMW20-10	391.70	Rock	CDEMDMW20391.70VOC	Normal Sample	vld	2/23/2009	11:24 AM	Grab	bmh	2/23/2009	12:59 PM		
SEI-436	CDEMDMW20-10	392.60	Rock	CDEMDMW20392.60VOC	Normal Sample	vld	2/23/2009	11:27 AM	Grab	bmh	2/23/2009	1:00 PM		
SEI-437	CDEMDMW20-10	394.40	Rock	CDEMDMW20394.40VOC	Normal Sample	vld	2/23/2009	12:18 PM	Grab	bmh	2/23/2009	1:01 PM		
SEI-438	CDEMDMW20-10	396.40	Rock	CDEMDMW20396.40VOC	Normal Sample	vld	2/23/2009	12:21 PM	Grab	bmh	2/23/2009	1:02 PM		
SEI-439	CDEMDMW20-10	399.10	Rock	CDEMDMW20399.10VOC	Normal Sample	vld	2/23/2009	2:19 PM	Grab	bmh	2/23/2009	4:43 PM		
SEI-440	CDEMDMW20-10	400.70	Rock	CDEMDMW20400.70VOC	Normal Sample	vld	2/23/2009	2:21 PM	Grab	bmh	2/23/2009	4:45 PM		
SEI-441	CDEMDMW20-10	402.30	Rock	CDEMDMW20402.30VOC	Normal Sample	vld	2/23/2009	2:23 PM	Grab	bmh	2/23/2009	4:46 PM		
SEI-442	CDEMDMW20-10	403.70	Rock	CDEMDMW20403.70VOC	Normal Sample	vld	2/23/2009	3:19 PM	Grab	bmh	2/23/2009	4:47 PM		
SEI-443	CDEMDMW20-10	406.80	Rock	CDEMDMW20406.80VOC	Normal Sample	vld	2/23/2009	3:22 PM	Grab	bmh	2/23/2009	4:48 PM		
SEI-444	CDEMDMW20-10	409.50	Rock	CDEMDMW20409.50VOC	Normal Sample	vld	2/23/2009	4:10 PM	Grab	bmh	2/23/2009	4:49 PM		
SEI-445	CDEMDMW20-10	411.10	Rock	CDEMDMW20411.10VOC	Normal Sample	vld	2/23/2009	4:12 PM	Grab	bmh	2/23/2009	4:50 PM		
SEI-446	CDEMDMW20-10	412.40	Rock	CDEMDMW20412.40VOC	Normal Sample	vld	2/23/2009	4:14 PM	Grab	bmh	2/23/2009	4:51 PM		

Sample Weights

LabID	FinalVialMass	FinalSampleWeight
SEI-21	51.37	13.90
SEI-21	51.37	13.90
SEI-22	55.35	18.14
SEI-22	55.35	18.14
SEI-23	54.48	17.48
SEI-23	54.48	17.48
SEI-27	44.99	8.15
SEI-27	44.99	8.15
SEI-27-MS	49.48	12.09
SEI-27-MS	49.48	12.09
SEI-29	53.91	17.12
SEI-29	53.91	17.12
SEI-30	52.96	16.33
SEI-30	52.96	16.33
SEI-31	67.74	30.88
SEI-31	67.74	30.88
SEI-32	66.50	29.45
SEI-32	66.50	29.45
SEI-33	56.48	19.27
SEI-33	56.48	19.27
SEI-34	54.72	17.66
SEI-34	54.72	17.66
SEI-35	55.81	18.53
SEI-35	55.81	18.53
SEI-37	55.26	17.62
SEI-37	55.26	17.62
SEI-38	51.85	15.41
SEI-38	51.85	15.41
SEI-39	55.43	18.02
SEI-39	55.43	18.02
SEI-40	54.41	17.38
SEI-40	54.41	17.38
SEI-41	54.67	17.57
SEI-41	54.67	17.57
SEI-42	58.30	21.39
SEI-42	58.30	21.39
SEI-43	54.14	17.04
SEI-43	54.14	17.04
SEI-44	54.81	18.07
SEI-44	54.81	18.07
SEI-45	54.84	17.85
SEI-45	54.84	17.85
SEI-46	56.51	19.35
SEI-46	56.51	19.35
SEI-47	54.58	17.13
SEI-47	54.58	17.13
SEI-48	55.65	17.74
SEI-48	55.65	17.74
SEI-49	65.83	25.10
SEI-49	65.83	25.10
SEI-50	58.04	17.41
SEI-50	58.04	17.41
SEI-51	58.98	18.18
SEI-51	58.98	18.18
SEI-52	59.23	17.91
SEI-52	59.23	17.91
SEI-53	55.86	14.96
SEI-53	55.86	14.96
SEI-54	54.00	12.78
SEI-54	54.00	12.78
SEI-55	58.07	17.50

Sample Weights

LabID	FinalVialMass	FinalSampleWeight
SEI-55	58.07	17.50
SEI-56	61.77	20.42
SEI-56	61.77	20.42
SEI-57	60.40	19.38
SEI-57	60.40	19.38
SEI-58	50.62	9.93
SEI-58	50.62	9.93
SEI-59	63.99	23.48
SEI-59	63.99	23.48
SEI-60	57.80	17.20
SEI-60	57.80	17.20
SEI-61	55.44	13.90
SEI-61	55.44	13.90
SEI-62	59.76	18.85
SEI-62	59.76	18.85
SEI-63	62.76	21.24
SEI-63	62.76	21.24
SEI-64	58.90	18.00
SEI-64	58.90	18.00
SEI-65	63.01	22.12
SEI-65	63.01	22.12
SEI-66	57.05	16.41
SEI-66	57.05	16.41
SEI-67	50.44	9.19
SEI-67	50.44	9.19
SEI-68	62.53	21.71
SEI-68	62.53	21.71
SEI-66-MS	52.43	11.44
SEI-66-MS	52.43	11.44
SEI-70	55.61	14.83
SEI-70	55.61	14.83
SEI-71	55.60	13.92
SEI-71	55.60	13.92
SEI-72	60.32	19.72
SEI-72	60.32	19.72
SEI-73	58.04	17.57
SEI-73	58.04	17.57
SEI-74	63.34	22.32
SEI-74	63.34	22.32
SEI-77	63.15	22.29
SEI-77	63.15	22.29
SEI-78	55.23	14.62
SEI-78	55.23	14.62
SEI-79	65.55	24.77
SEI-79	65.55	24.77
SEI-80	62.26	21.66
SEI-80	62.26	21.66
SEI-81	71.89	30.93
SEI-81	71.89	30.93
SEI-82	57.97	17.61
SEI-82	57.97	17.61
SEI-83	55.71	14.71
SEI-83	55.71	14.71
SEI-84	64.74	23.94
SEI-84	64.74	23.94
SEI-85	55.71	14.46
SEI-85	55.71	14.46
SEI-86	54.40	14.17
SEI-86	54.40	14.17
SEI-87	52.01	11.50
SEI-87	52.01	11.50

Sample Weights

LabID	FinalVialMass	FinalSampleWeight
SEI-88	63.90	23.44
SEI-88	63.90	23.44
SEI-89	52.31	11.94
SEI-89	52.31	11.94
SEI-79-LD	65.55	24.77
SEI-79-LD	65.55	24.77
SEI-73-LD	58.04	17.57
SEI-73-LD	58.04	17.57
SEI-93	61.94	21.90
SEI-93	61.94	21.90
SEI-94	54.63	13.85
SEI-94	54.63	13.85
SEI-95	70.83	30.47
SEI-95	70.83	30.47
SEI-96	65.52	25.44
SEI-96	65.52	25.44
SEI-97	63.31	23.02
SEI-97	63.31	23.02
SEI-98	58.50	18.65
SEI-98	58.50	18.65
SEI-99	78.44	38.33
SEI-99	78.44	38.33
SEI-100	65.74	25.63
SEI-100	65.74	25.63
SEI-101	74.74	34.89
SEI-101	74.74	34.89
SEI-102	64.04	23.96
SEI-102	64.04	23.96
SEI-93-MS	53.09	12.92
SEI-93-MS	53.09	12.92
SEI-104	63.71	23.40
SEI-104	63.71	23.40
SEI-105	62.66	22.65
SEI-105	62.66	22.65
SEI-106	64.66	24.14
SEI-106	64.66	24.14
SEI-107	58.44	18.17
SEI-107	58.44	18.17
SEI-108	60.06	19.42
SEI-108	60.06	19.42
SEI-109	60.77	20.49
SEI-109	60.77	20.49
SEI-110	57.91	17.77
SEI-110	57.91	17.77
SEI-111	65.78	25.78
SEI-111	65.78	25.78
SEI-112	56.02	15.85
SEI-112	56.02	15.85
SEI-113	59.33	18.84
SEI-113	59.33	18.84
SEI-114	59.36	18.75
SEI-114	59.36	18.75
SEI-115	58.17	17.82
SEI-115	58.17	17.82
SEI-116	58.59	18.90
SEI-116	58.59	18.90
SEI-117	69.79	29.36
SEI-117	69.79	29.36
SEI-118	62.05	21.73
SEI-118	62.05	21.73
SEI-119	60.88	20.56

LabID	FinalVialMass	FinalSampleWeight
SEI-119	60.88	20.56
SEI-120	62.41	22.22
SEI-120	62.41	22.22
SEI-121	58.91	18.49
SEI-121	58.91	18.49
SEI-122	66.16	26.16
SEI-122	66.16	26.16
SEI-115-MS	59.32	19.00
SEI-115-MS	59.32	19.00
SEI-125	63.45	23.08
SEI-125	63.45	23.08
SEI-126	59.56	20.05
SEI-126	59.56	20.05
SEI-127	61.58	21.24
SEI-127	61.58	21.24
SEI-128	82.30	41.92
SEI-128	82.30	41.92
SEI-129	56.63	16.45
SEI-129	56.63	16.45
SEI-130	63.18	22.96
SEI-130	63.18	22.96
SEI-131	61.60	21.59
SEI-131	61.60	21.59
SEI-132	65.02	25.76
SEI-132	65.02	25.76
SEI-133	69.20	28.55
SEI-133	69.20	28.55
SEI-134	67.76	27.25
SEI-134	67.76	27.25
SEI-136	66.02	26.02
SEI-136	66.02	26.02
SEI-137	58.61	18.63
SEI-137	58.61	18.63
SEI-138	58.48	18.36
SEI-138	58.48	18.36
SEI-139	59.35	19.77
SEI-139	59.35	19.77
SEI-139-MS	60.45	20.40
SEI-139-MS	60.45	20.40
SEI-141	66.62	27.13
SEI-141	66.62	27.13
SEI-142	63.37	22.98
SEI-142	63.37	22.98
SEI-143	64.31	23.57
SEI-143	64.31	23.57
SEI-144	56.28	15.65
SEI-144	56.28	15.65
SEI-145	63.04	22.39
SEI-145	63.04	22.39
SEI-146	62.18	21.70
SEI-146	62.18	21.70
SEI-147	70.08	29.43
SEI-147	70.08	29.43
SEI-148	61.42	20.80
SEI-148	61.42	20.80
SEI-149	60.82	20.04
SEI-149	60.82	20.04
SEI-125-LD	63.45	23.08
SEI-125-LD	63.45	23.08
SEI-149-LD	60.82	20.04
SEI-149-LD	60.82	20.04

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
366	SEI-152	6520-RockA	65.33	24.51
367	SEI-152	6520-RockB	65.33	24.51
368	SEI-153	6520-RockA	69.48	28.48
369	SEI-153	6520-RockB	69.48	28.48
370	SEI-154	6520-RockA	66.84	26.54
371	SEI-154	6520-RockB	66.84	26.54
372	SEI-155	6520-RockA	59.93	19.04
373	SEI-155	6520-RockB	59.93	19.04
374	SEI-156	6520-RockA	69.87	29
375	SEI-156	6520-RockB	69.87	29
376	SEI-157	6520-RockA	58.25	17.33
377	SEI-157	6520-RockB	58.25	17.33
388	SEI-160	6520-RockA	58.38	17.77
389	SEI-160	6520-RockB	58.38	17.77
390	SEI-161	6520-RockA	61.39	20.22
391	SEI-161	6520-RockB	61.39	20.22
392	SEI-162	6520-RockA	65.59	24.9
393	SEI-162	6520-RockB	65.59	24.9
394	SEI-163	6520-RockA	67.33	26.6
395	SEI-163	6520-RockB	67.33	26.6
396	SEI-164	6520-RockA	61.22	20.61
397	SEI-164	6520-RockB	61.22	20.61
398	SEI-165	6520-RockA	71.48	30.86
399	SEI-165	6520-RockB	71.48	30.86
400	SEI-166	6520-RockA	59.57	18.96
401	SEI-166	6520-RockB	59.57	18.96
402	SEI-167	6520-RockA	59.03	17.97
403	SEI-167	6520-RockB	59.03	17.97
404	SEI-168	6520-RockA	60.3	19.39
405	SEI-168	6520-RockB	60.3	19.39
406	SEI-169	6520-RockA	64.19	23.64
407	SEI-169	6520-RockB	64.19	23.64
408	SEI-170	6520-RockA	62.17	20.63
409	SEI-170	6520-RockB	62.17	20.63
410	SEI-171	6520-RockA	66.09	24.79
411	SEI-171	6520-RockB	66.09	24.79
412	SEI-172	6520-RockA	64.5	23.75
413	SEI-172	6520-RockB	64.5	23.75
414	SEI-173	6520-RockA	58.02	16.8
415	SEI-173	6520-RockB	58.02	16.8
416	SEI-174	6520-RockA	64.49	23.23
417	SEI-174	6520-RockB	64.49	23.23
424	SEI-173-MS	6520-RockA	56.13	15.18
425	SEI-173-MS	6520-RockB	56.13	15.18
426	SEI-178	6520-RockA	61.43	20.44
427	SEI-178	6520-RockB	61.43	20.44
428	SEI-179	6520-RockA	58.55	17.1
429	SEI-179	6520-RockB	58.55	17.1

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
430	SEI-180	6520-RockA	67.61	26.72
431	SEI-180	6520-RockB	67.61	26.72
432	SEI-181	6520-RockA	70.75	29.1
433	SEI-181	6520-RockB	70.75	29.1
444	SEI-183	6520-RockA	61.25	20.11
445	SEI-183	6520-RockB	61.25	20.11
446	SEI-184	6520-RockA	61.26	20.19
447	SEI-184	6520-RockB	61.26	20.19
448	SEI-185	6520-RockA	64.03	22.39
449	SEI-185	6520-RockB	64.03	22.39
450	SEI-186	6520-RockA	67.59	26.36
451	SEI-186	6520-RockB	67.59	26.36
452	SEI-187	6520-RockA	63.63	21.85
453	SEI-187	6520-RockB	63.63	21.85
454	SEI-188	6520-RockA	60.8	20.04
455	SEI-188	6520-RockB	60.8	20.04
465	SEI-190	6520-RockA	64.46	23.71
466	SEI-190	6520-RockB	64.46	23.71
467	SEI-191	6520-RockA	65.5	23.96
468	SEI-191	6520-RockB	65.5	23.96
469	SEI-192	6520-RockA	62.28	21.23
470	SEI-192	6520-RockB	62.28	21.23
471	SEI-193	6520-RockA	62.07	21.52
472	SEI-193	6520-RockB	62.07	21.52
473	SEI-194	6520-RockA	61.56	20.43
474	SEI-194	6520-RockB	61.56	20.43
475	SEI-195	6520-RockA	62.85	21.75
476	SEI-195	6520-RockB	62.85	21.75
477	SEI-196	6520-RockA	62.72	21.59
478	SEI-196	6520-RockB	62.72	21.59
479	SEI-197	6520-RockA	58.61	17.06
480	SEI-197	6520-RockB	58.61	17.06
481	SEI-198	6520-RockA	61.36	20.26
482	SEI-198	6520-RockB	61.36	20.26
483	SEI-199	6520-RockA	65.65	24.27
484	SEI-199	6520-RockB	65.65	24.27
485	SEI-200	6520-RockA	59.93	18.48
486	SEI-200	6520-RockB	59.93	18.48
487	SEI-201	6520-RockA	63.92	22.92
488	SEI-201	6520-RockB	63.92	22.92
489	SEI-202	6520-RockA	65.31	24.93
490	SEI-202	6520-RockB	65.31	24.93
493	SEI-204	6520-RockA	58.5	17.7
494	SEI-204	6520-RockB	58.5	17.7
495	SEI-205	6520-RockA	62.95	22.21
496	SEI-205	6520-RockB	62.95	22.21
501	SEI-204-MS	6520-RockA	58.5	17.7
502	SEI-204-MS	6520-RockB	58.5	17.7

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
505	SEI-204-N-MS	6520-RockA	60.92	20.05
506	SEI-204-N-MS	6520-RockB	60.92	20.05
507	SEI-209	6520-RockA	65.46	24.66
508	SEI-209	6520-RockB	65.46	24.66
509	SEI-210	6520-RockA	60.6	18.89
510	SEI-210	6520-RockB	60.6	18.89
511	SEI-211	6520-RockA	68.87	27.85
512	SEI-211	6520-RockB	68.87	27.85
513	SEI-212	6520-RockA	62.77	22.35
514	SEI-212	6520-RockB	62.77	22.35
515	SEI-213	6520-RockA	57.04	16.47
516	SEI-213	6520-RockB	57.04	16.47
517	SEI-214	6520-RockA	66.03	24.93
518	SEI-214	6520-RockB	66.03	24.93
519	SEI-215	6520-RockA	57.84	16.79
520	SEI-215	6520-RockB	57.84	16.79
521	SEI-216	6520-RockA	62.26	21.68
522	SEI-216	6520-RockB	62.26	21.68
523	SEI-217	6520-RockA	63.69	22.29
524	SEI-217	6520-RockB	63.69	22.29
525	SEI-218	6520-RockA	60.99	18.93
526	SEI-218	6520-RockB	60.99	18.93
527	SEI-219	6520-RockA	65.42	24.64
528	SEI-219	6520-RockB	65.42	24.64
529	SEI-220	6520-RockA	63.21	21.83
530	SEI-220	6520-RockB	63.21	21.83
531	SEI-221	6520-RockA	65.62	24.46
532	SEI-221	6520-RockB	65.62	24.46
533	SEI-222	6520-RockA	69.73	28.88
534	SEI-222	6520-RockB	69.73	28.88
535	SEI-223	6520-RockA	60.63	19.42
536	SEI-223	6520-RockB	60.63	19.42
537	SEI-224	6520-RockA	59.5	18.19
538	SEI-224	6520-RockB	59.5	18.19
539	SEI-225	6520-RockA	60.95	20.08
540	SEI-225	6520-RockB	60.95	20.08
541	SEI-226	6520-RockA	60.66	19.24
542	SEI-226	6520-RockB	60.66	19.24
543	SEI-227	6520-RockA	60.13	19.28
544	SEI-227	6520-RockB	60.13	19.28
545	SEI-228	6520-RockA	58.5	17.38
546	SEI-228	6520-RockB	58.5	17.38
547	SEI-229	6520-RockA	56.86	15.17
548	SEI-229	6520-RockB	56.86	15.17
553	SEI-228-MS	6520-RockA	50.48	9.51
554	SEI-228-MS	6520-RockB	50.48	9.51
557	SEI-233	6520-RockA	62.76	22.32
558	SEI-233	6520-RockB	62.76	22.32

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
559	SEI-234	6520-RockA	61.22	20.65
560	SEI-234	6520-RockB	61.22	20.65
561	SEI-235	6520-RockA	64.33	22.82
562	SEI-235	6520-RockB	64.33	22.82
563	SEI-236	6520-RockA	72.15	31.06
564	SEI-236	6520-RockB	72.15	31.06
565	SEI-237	6520-RockA	62.41	20.73
566	SEI-237	6520-RockB	62.41	20.73
567	SEI-238	6520-RockA	63.04	21.77
568	SEI-238	6520-RockB	63.04	21.77
569	SEI-239	6520-RockA	60.33	19.18
570	SEI-239	6520-RockB	60.33	19.18
571	SEI-240	6520-RockA	59.63	18.63
572	SEI-240	6520-RockB	59.63	18.63
580	SEI-242	6520-RockA	62.14	20.26
581	SEI-242	6520-RockB	62.14	20.26
582	SEI-243	6520-RockA	66.4	25.43
583	SEI-243	6520-RockB	66.4	25.43
584	SEI-244	6520-RockA	61.74	21.07
585	SEI-244	6520-RockB	61.74	21.07
586	SEI-245	6520-RockA	64.26	23.37
587	SEI-245	6520-RockB	64.26	23.37
588	SEI-246	6520-RockA	67.54	26.21
589	SEI-246	6520-RockB	67.54	26.21
590	SEI-247	6520-RockA	68.08	26.82
591	SEI-247	6520-RockB	68.08	26.82
592	SEI-248	6520-RockA	63.53	22.77
593	SEI-248	6520-RockB	63.53	22.77
594	SEI-249	6520-RockA	64.41	23.71
595	SEI-249	6520-RockB	64.41	23.71
596	SEI-250	6520-RockA	58.34	18.74
597	SEI-250	6520-RockB	58.34	18.74
598	SEI-251	6520-RockA	54.73	13.86
599	SEI-251	6520-RockB	54.73	13.86
600	SEI-252	6520-RockA	61.71	22.39
601	SEI-252	6520-RockB	61.71	22.39
602	SEI-253	6520-RockA	55.22	14.65
603	SEI-253	6520-RockB	55.22	14.65
604	SEI-254	6520-RockA	59.64	19.54
605	SEI-254	6520-RockB	59.64	19.54
610	SEI-253-N	6520-RockA	55.22	14.65
611	SEI-253-N	6520-RockB	55.22	14.65
614	SEI-253-MS	6520-RockA	62.24	22.28
615	SEI-253-MS	6520-RockB	62.24	22.28
616	SEI-258	6520-RockA	62.51	22.12
617	SEI-258	6520-RockB	62.51	22.12
618	SEI-259	6520-RockA	60.07	19.74
619	SEI-259	6520-RockB	60.07	19.74

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
620	SEI-260	6520-RockA	62.21	21.57
621	SEI-260	6520-RockB	62.21	21.57
622	SEI-261	6520-RockA	58.94	19.31
623	SEI-261	6520-RockB	58.94	19.31
628	SEI-264	6520-RockA	57.06	16.79
629	SEI-264	6520-RockB	57.06	16.79
630	SEI-265	6520-RockA	73.42	33.65
631	SEI-265	6520-RockB	73.42	33.65
632	SEI-266	6520-RockA	66.03	25.62
633	SEI-266	6520-RockB	66.03	25.62
635	SEI-268	6520-RockA	60.23	20.04
636	SEI-268	6520-RockB	60.23	20.04
637	SEI-269	6520-RockA	71.43	31.1
638	SEI-269	6520-RockB	71.43	31.1
641	SEI-271	6520-RockA	55.93	15.58
642	SEI-271	6520-RockB	55.93	15.58
643	SEI-272	6520-RockA	60.6	20.17
644	SEI-272	6520-RockB	60.6	20.17
645	SEI-273	6520-RockA	64.33	24.22
646	SEI-273	6520-RockB	64.33	24.22
647	SEI-274	6520-RockA	68.65	29.34
648	SEI-274	6520-RockB	68.65	29.34
649	SEI-275	6520-RockA	64.87	24.94
650	SEI-275	6520-RockB	64.87	24.94
651	SEI-276	6520-RockA	60.68	20.21
652	SEI-276	6520-RockB	60.68	20.21
653	SEI-277	6520-RockA	63.5	23.35
654	SEI-277	6520-RockB	63.5	23.35
655	SEI-278	6520-RockA	64.31	24.62
656	SEI-278	6520-RockB	64.31	24.62
657	SEI-279	6520-RockA	62.3	22.12
658	SEI-279	6520-RockB	62.3	22.12
659	SEI-280	6520-RockA	63.72	23.46
660	SEI-280	6520-RockB	63.72	23.46
661	SEI-281	6520-RockA	56.87	17.38
662	SEI-281	6520-RockB	56.87	17.38
663	SEI-282	6520-RockA	56.97	17.13
664	SEI-282	6520-RockB	56.97	17.13
665	SEI-283	6520-RockA	61.39	21.69
666	SEI-283	6520-RockB	61.39	21.69
667	SEI-284	6520-RockA	62.24	22.61
668	SEI-284	6520-RockB	62.24	22.61
669	SEI-285	6520-RockA	55.4	15.81
670	SEI-285	6520-RockB	55.4	15.81
671	SEI-286	6520-RockA	66	26.45
672	SEI-286	6520-RockB	66	26.45
675	SEI-283-MS	6520-RockA	59.06	19.47
676	SEI-283-MS	6520-RockB	59.06	19.47

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
677	SEI-288	6520-RockA	61.74	21.67
678	SEI-288	6520-RockB	61.74	21.67
679	SEI-289	6520-RockA	59.07	19.54
680	SEI-289	6520-RockB	59.07	19.54
681	SEI-290	6520-RockA	63.16	22.84
682	SEI-290	6520-RockB	63.16	22.84
683	SEI-291	6520-RockA	60.24	20.12
684	SEI-291	6520-RockB	60.24	20.12
685	SEI-292	6520-RockA	62.24	21.76
686	SEI-292	6520-RockB	62.24	21.76
687	SEI-293	6520-RockA	59.62	18.78
688	SEI-293	6520-RockB	59.62	18.78
689	SEI-294	6520-RockA	64.67	24.46
690	SEI-294	6520-RockB	64.67	24.46
691	SEI-295	6520-RockA	58.47	16.84
692	SEI-295	6520-RockB	58.47	16.84
693	SEI-296	6520-RockA	70.6	29.86
694	SEI-296	6520-RockB	70.6	29.86
695	SEI-297	6520-RockA	59	17.46
696	SEI-297	6520-RockB	59	17.46
697	SEI-298	6520-RockA	71.94	30.43
698	SEI-298	6520-RockB	71.94	30.43
699	SEI-299	6520-RockA	62.82	21.09
700	SEI-299	6520-RockB	62.82	21.09
712	SEI-302	6520-RockA	56.81	15.92
713	SEI-302	6520-RockB	56.81	15.92
714	SEI-303	6520-RockA	69.45	28.48
715	SEI-303	6520-RockB	69.45	28.48
716	SEI-304	6520-RockA	59.46	18.12
717	SEI-304	6520-RockB	59.46	18.12
718	SEI-305	6520-RockA	53.01	11.78
719	SEI-305	6520-RockB	53.01	11.78
724	SEI-304-MS	6520-RockA	53.98	12.6
725	SEI-304-MS	6520-RockB	53.98	12.6
726	SEI-308	6520-RockA	63.75	23.06
727	SEI-308	6520-RockB	63.75	23.06
728	SEI-309	6520-RockA	61.29	19.72
729	SEI-309	6520-RockB	61.29	19.72
730	SEI-310	6520-RockA	58.98	18.13
731	SEI-310	6520-RockB	58.98	18.13
732	SEI-311	6520-RockA	57.89	16.48
733	SEI-311	6520-RockB	57.89	16.48
734	SEI-312	6520-RockA	69.12	28.22
735	SEI-312	6520-RockB	69.12	28.22
736	SEI-313	6520-RockA	56.08	15.06
737	SEI-313	6520-RockB	56.08	15.06
738	SEI-314	6520-RockA	60.86	19.48
739	SEI-314	6520-RockB	60.86	19.48

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
742	SEI-315	6520-RockA	58.79	17.5
743	SEI-315	6520-RockB	58.79	17.5
744	SEI-316	6520-RockA	57.44	17.04
745	SEI-316	6520-RockB	57.44	17.04
746	SEI-317	6520-RockA	63.25	22.59
747	SEI-317	6520-RockB	63.25	22.59
748	SEI-318	6520-RockA	67.63	26.55
749	SEI-318	6520-RockB	67.63	26.55
750	SEI-319	6520-RockA	67.57	27.04
751	SEI-319	6520-RockB	67.57	27.04
752	SEI-320	6520-RockA	65.92	24.61
753	SEI-320	6520-RockB	65.92	24.61
754	SEI-321	6520-RockA	64.72	24.14
755	SEI-321	6520-RockB	64.72	24.14
756	SEI-322	6520-RockA	58.46	16.84
757	SEI-322	6520-RockB	58.46	16.84
758	SEI-323	6520-RockA	61.09	19.97
759	SEI-323	6520-RockB	61.09	19.97
760	SEI-324	6520-RockA	57.97	17.44
761	SEI-324	6520-RockB	57.97	17.44
766	SEI-327	6520-RockA	68.88	27.66
767	SEI-327	6520-RockB	68.88	27.66
768	SEI-328	6520-RockA	58.14	17.31
769	SEI-328	6520-RockB	58.14	17.31
770	SEI-329	6520-RockA	62.09	20.65
771	SEI-329	6520-RockB	62.09	20.65
772	SEI-330	6520-RockA	65.13	23.72
773	SEI-330	6520-RockB	65.13	23.72
774	SEI-331	6520-RockA	62.6	21.62
775	SEI-331	6520-RockB	62.6	21.62
776	SEI-332	6520-RockA	66.45	24.94
777	SEI-332	6520-RockB	66.45	24.94
778	SEI-333	6520-RockA	64.32	23.18
779	SEI-333	6520-RockB	64.32	23.18
780	SEI-334	6520-RockA	66.3	25.61
781	SEI-334	6520-RockB	66.3	25.61
782	SEI-335	6520-RockA	58.28	17.03
783	SEI-335	6520-RockB	58.28	17.03
786	SEI-329-MS	6520-RockA	62.05	20.86
787	SEI-329-MS	6520-RockB	62.05	20.86
792	SEI-338	6520-RockA	68.79	27.42
793	SEI-338	6520-RockB	68.79	27.42
794	SEI-339	6520-RockA	61.51	20.31
795	SEI-339	6520-RockB	61.51	20.31
796	SEI-340	6520-RockA	55.61	14.59
797	SEI-340	6520-RockB	55.61	14.59
798	SEI-341	6520-RockA	55.11	14.45
799	SEI-341	6520-RockB	55.11	14.45

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
800	SEI-342	6520-RockA	74.48	32.9
801	SEI-342	6520-RockB	74.48	32.9
802	SEI-343	6520-RockA	58.17	16.35
803	SEI-343	6520-RockB	58.17	16.35
804	SEI-344	6520-RockA	59.68	18.69
805	SEI-344	6520-RockB	59.68	18.69
806	SEI-345	6520-RockA	66.12	25.26
807	SEI-345	6520-RockB	66.12	25.26
808	SEI-346	6520-RockA	63.72	22.67
809	SEI-346	6520-RockB	63.72	22.67
814	SEI-347	6520-RockA	58.69	17.66
816	SEI-348	6520-RockA	58.68	17.65
817	SEI-348	6520-RockB	58.68	17.65
818	SEI-349	6520-RockA	64.47	23.77
819	SEI-349	6520-RockB	64.47	23.77
820	SEI-350	6520-RockA	55.4	14.89
821	SEI-350	6520-RockB	55.4	14.89
822	SEI-351	6520-RockA	61.91	20.86
823	SEI-351	6520-RockB	61.91	20.86
824	SEI-352	6520-RockA	62.22	21.48
825	SEI-352	6520-RockB	62.22	21.48
826	SEI-353	6520-RockA	59.64	18.52
827	SEI-353	6520-RockB	59.64	18.52
828	SEI-354	6520-RockA	58.61	17.69
829	SEI-354	6520-RockB	58.61	17.69
830	SEI-355	6520-RockA	63.03	21.45
831	SEI-355	6520-RockB	63.03	21.45
832	SEI-356	6520-RockA	65.47	23.9
833	SEI-356	6520-RockB	65.47	23.9
834	SEI-357	6520-RockA	64.05	22.91
835	SEI-357	6520-RockB	64.05	22.91
836	SEI-358	6520-RockA	59.54	18.54
837	SEI-358	6520-RockB	59.54	18.54
838	SEI-359	6520-RockA	64.05	22.88
839	SEI-359	6520-RockB	64.05	22.88
840	SEI-360	6520-RockA	60.43	19.46
841	SEI-360	6520-RockB	60.43	19.46
842	SEI-361	6520-RockA	59.63	19.21
843	SEI-361	6520-RockB	59.63	19.21
848	SEI-353-MS	6520-RockA	61.66	20.79
849	SEI-353-MS	6520-RockB	61.66	20.79
857	SEI-365	6520-RockA	61.31	20.75
858	SEI-365	6520-RockB	61.31	20.75
859	SEI-366	6520-RockA	64.14	22.92
860	SEI-366	6520-RockB	64.14	22.92
861	SEI-367	6520-RockA	67.53	26.47
862	SEI-367	6520-RockB	67.53	26.47
863	SEI-368	6520-RockA	61.07	19.93

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
864	SEI-368	6520-RockB	61.07	19.93
865	SEI-369	6520-RockA	62.48	21.84
866	SEI-369	6520-RockB	62.48	21.84
867	SEI-370	6520-RockA	60.07	19.1
868	SEI-370	6520-RockB	60.07	19.1
869	SEI-371	6520-RockA	58.26	17.68
870	SEI-371	6520-RockB	58.26	17.68
871	SEI-372	6520-RockA	64.14	22.82
872	SEI-372	6520-RockB	64.14	22.82
873	SEI-373	6520-RockA	66.33	25.17
874	SEI-373	6520-RockB	66.33	25.17
875	SEI-374	6520-RockA	58.15	16.84
876	SEI-374	6520-RockB	58.15	16.84
877	SEI-375	6520-RockA	56.9	16.29
878	SEI-375	6520-RockB	56.9	16.29
879	SEI-376	6520-RockA	59.65	18.45
880	SEI-376	6520-RockB	59.65	18.45
883	SEI-378	6520-RockA	58.37	17.08
884	SEI-378	6520-RockB	58.37	17.08
885	SEI-379	6520-RockA	61.42	19.27
886	SEI-379	6520-RockB	61.42	19.27
889	SEI-378-MS	6520-RockA	66.33	25.22
890	SEI-378-MS	6520-RockB	66.33	25.22
891	SEI-381	6520-RockA	63.66	22.2
892	SEI-381	6520-RockB	63.66	22.2
893	SEI-382	6520-RockA	60.14	19.18
894	SEI-382	6520-RockB	60.14	19.18
895	SEI-383	6520-RockA	64.67	23.79
896	SEI-383	6520-RockB	64.67	23.79
897	SEI-384	6520-RockA	66.82	26.01
898	SEI-384	6520-RockB	66.82	26.01
902	SEI-385	6520-RockA	53.15	12.99
903	SEI-385	6520-RockB	53.15	12.99
904	SEI-386	6520-RockA	58.34	17.81
905	SEI-386	6520-RockB	58.34	17.81
906	SEI-387	6520-RockA	59.51	19.21
907	SEI-387	6520-RockB	59.51	19.21
908	SEI-388	6520-RockA	60.54	20.38
909	SEI-388	6520-RockB	60.54	20.38
910	SEI-389	6520-RockA	63.27	22.52
911	SEI-389	6520-RockB	63.27	22.52
912	SEI-390	6520-RockA	63.98	23.04
913	SEI-390	6520-RockB	63.98	23.04
914	SEI-391	6520-RockA	63.27	22.47
915	SEI-391	6520-RockB	63.27	22.47
916	SEI-392	6520-RockA	64.68	23.63
917	SEI-392	6520-RockB	64.68	23.63
918	SEI-393	6520-RockA	64.29	23.52

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
919	SEI-393	6520-RockB	64.29	23.52
920	SEI-394	6520-RockA	67.84	27.03
921	SEI-394	6520-RockB	67.84	27.03
922	SEI-395	6520-RockA	58.05	17.48
923	SEI-395	6520-RockB	58.05	17.48
924	SEI-396	6520-RockA	60.23	19.39
925	SEI-396	6520-RockB	60.23	19.39
926	SEI-397	6520-RockA	58.62	17.34
927	SEI-397	6520-RockB	58.62	17.34
928	SEI-398	6520-RockA	59.07	18.39
929	SEI-398	6520-RockB	59.07	18.39
930	SEI-399	6520-RockA	63.57	22.77
931	SEI-399	6520-RockB	63.57	22.77
936	SEI-400	6520-RockA	63.86	23.18
937	SEI-400	6520-RockB	63.86	23.18
938	SEI-401	6520-RockA	64.62	23.74
939	SEI-401	6520-RockB	64.62	23.74
940	SEI-402	6520-RockA	62.37	21.33
941	SEI-402	6520-RockB	62.37	21.33
942	SEI-403	6520-RockA	61.8	21.64
943	SEI-403	6520-RockB	61.8	21.64
944	SEI-404	6520-RockA	68.48	27.34
945	SEI-404	6520-RockB	68.48	27.34
946	SEI-405	6520-RockA	64.96	23.72
947	SEI-405	6520-RockB	64.96	23.72
948	SEI-406	6520-RockA	70	28.9
949	SEI-406	6520-RockB	70	28.9
950	SEI-407	6520-RockA	73.73	32.65
951	SEI-407	6520-RockB	73.73	32.65
952	SEI-408	6520-RockA	61.33	20.86
953	SEI-408	6520-RockB	61.33	20.86
956	SEI-402-MS	6520-RockA	63.7	22.63
957	SEI-402-MS	6520-RockB	63.7	22.63
960	SEI-411	6520-RockA	63.21	22.26
961	SEI-411	6520-RockB	63.21	22.26
962	SEI-412	6520-RockA	69.1	27.53
963	SEI-412	6520-RockB	69.1	27.53
964	SEI-413	6520-RockA	61.91	20.29
965	SEI-413	6520-RockB	61.91	20.29
966	SEI-414	6520-RockA	64.54	23.39
967	SEI-414	6520-RockB	64.54	23.39
968	SEI-415	6520-RockA	58.91	17.79
969	SEI-415	6520-RockB	58.91	17.79
970	SEI-416	6520-RockA	69.27	28.2
971	SEI-416	6520-RockB	69.27	28.2
972	SEI-417	6520-RockA	64.29	23.06
973	SEI-417	6520-RockB	64.29	23.06
979	SEI-396-LD	6520-RockA	60.23	19.39

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
980	SEI-396-LD	6520-RockB	60.23	19.39
985	SEI-397-LD	6520-RockA	58.62	17.34
986	SEI-397-LD	6520-RockB	58.62	17.34
991	SEI-398-LD	6520-RockA	59.07	18.39
992	SEI-398-LD	6520-RockB	59.07	18.39
997	SEI-399-LD	6520-RockA	63.57	22.77
998	SEI-399-LD	6520-RockB	63.57	22.77
999	SEI-425	6520-RockA	64.29	23.3
1000	SEI-425	6520-RockB	64.29	23.3
1001	SEI-426	6520-RockA	58.89	18.04
1002	SEI-426	6520-RockB	58.89	18.04
1003	SEI-427	6520-RockA	61.08	20.73
1004	SEI-427	6520-RockB	61.08	20.73
1005	SEI-428	6520-RockA	64.73	23.87
1006	SEI-428	6520-RockB	64.73	23.87
1007	SEI-429	6520-RockA	61.88	21.58
1008	SEI-429	6520-RockB	61.88	21.58
1009	SEI-430	6520-RockA	64.88	23.92
1010	SEI-430	6520-RockB	64.88	23.92
1015	SEI-429-MS	6520-RockA	66.77	25.71
1016	SEI-429-MS	6520-RockB	66.77	25.71
1017	SEI-433	6520-RockA	40.48	0.12
1018	SEI-433	6520-RockB	40.48	0.12
1019	SEI-434	6520-RockA	77	36.13
1020	SEI-434	6520-RockB	77	36.13
1022	SEI-435	6520-RockA	64.25	23.91
1023	SEI-435	6520-RockB	64.25	23.91
1024	SEI-436	6520-RockA	61.54	20.47
1025	SEI-436	6520-RockB	61.54	20.47
1026	SEI-437	6520-RockA	65.67	24.96
1027	SEI-437	6520-RockB	65.67	24.96
1028	SEI-438	6520-RockA	56.74	15.82
1029	SEI-438	6520-RockB	56.74	15.82
1030	SEI-439	6520-RockA	59.23	18.45
1031	SEI-439	6520-RockB	59.23	18.45
1032	SEI-440	6520-RockA	61.28	20.59
1033	SEI-440	6520-RockB	61.28	20.59
1034	SEI-441	6520-RockA	62.41	21.6
1035	SEI-441	6520-RockB	62.41	21.6
1036	SEI-442	6520-RockA	60.08	19.37
1037	SEI-442	6520-RockB	60.08	19.37
1038	SEI-443	6520-RockA	63.69	22.53
1039	SEI-443	6520-RockB	63.69	22.53
1040	SEI-444	6520-RockA	64.75	24.34
1041	SEI-444	6520-RockB	64.75	24.34
1042	SEI-445	6520-RockA	59.37	18.26
1043	SEI-445	6520-RockB	59.37	18.26
1044	SEI-446	6520-RockA	63.6	22.72

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
1045	SEI-446	6520-RockB	63.6	22.72
1050	SEI-447	6520-RockA	58.09	17.68
1051	SEI-447	6520-RockB	58.09	17.68
1052	SEI-448	6520-RockA	60.82	19.94
1053	SEI-448	6520-RockB	60.82	19.94
1054	SEI-449	6520-RockA	57.77	16.81
1055	SEI-449	6520-RockB	57.77	16.81
1056	SEI-450	6520-RockA	59.54	18.55
1057	SEI-450	6520-RockB	59.54	18.55
1058	SEI-451	6520-RockA	64.91	23.51
1059	SEI-451	6520-RockB	64.91	23.51
1060	SEI-452	6520-RockA	64.67	23.61
1061	SEI-452	6520-RockB	64.67	23.61
1062	SEI-453	6520-RockA	66.78	25.96
1063	SEI-453	6520-RockB	66.78	25.96
1064	SEI-454	6520-RockA	61	20.61
1065	SEI-454	6520-RockB	61	20.61
1066	SEI-455	6520-RockA	61.55	21.21
1067	SEI-455	6520-RockB	61.55	21.21
1068	SEI-456	6520-RockA	68.57	27.84
1069	SEI-456	6520-RockB	68.57	27.84
1070	SEI-457	6520-RockA	61.48	20.37
1071	SEI-457	6520-RockB	61.48	20.37
1072	SEI-458	6520-RockA	63.89	22.73
1073	SEI-458	6520-RockB	63.89	22.73
1074	SEI-459	6520-RockA	61.25	20.96
1075	SEI-459	6520-RockB	61.25	20.96
1076	SEI-460	6520-RockA	67.51	26.48
1077	SEI-460	6520-RockB	67.51	26.48
1078	SEI-461	6520-RockA	75.21	34.48
1079	SEI-461	6520-RockB	75.21	34.48
1080	SEI-462	6520-RockA	63.05	22.07
1081	SEI-462	6520-RockB	63.05	22.07
1088	SEI-462-MS	6520-RockA	61.11	20.59
1089	SEI-462-MS	6520-RockB	61.11	20.59
1090	SEI-466	6520-RockA	64.24	23.37
1091	SEI-466	6520-RockB	64.24	23.37
1094	SEI-468	6520-RockA	72.57	31.38
1095	SEI-468	6520-RockB	72.57	31.38
1096	SEI-469	6520-RockA	59.54	18.84
1097	SEI-469	6520-RockB	59.54	18.84
1098	SEI-470	6520-RockA	64.51	24.13
1099	SEI-470	6520-RockB	64.51	24.13
1107	SEI-472	6520-RockA	65.69	24.82
1108	SEI-472	6520-RockB	65.69	24.82
1109	SEI-473	6520-RockA	64.77	24.09
1110	SEI-473	6520-RockB	64.77	24.09
1111	SEI-474	6520-RockA	80.2	39

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
1112	SEI-474	6520-RockB	80.2	39
1113	SEI-475	6520-RockA	59.47	18.81
1114	SEI-475	6520-RockB	59.47	18.81
1115	SEI-476	6520-RockA	63.49	22.33
1116	SEI-476	6520-RockB	63.49	22.33
1117	SEI-477	6520-RockA	61.33	20.38
1118	SEI-477	6520-RockB	61.33	20.38
1119	SEI-478	6520-RockA	58.27	17.55
1120	SEI-478	6520-RockB	58.27	17.55
1121	SEI-479	6520-RockA	58.66	17.94
1122	SEI-479	6520-RockB	58.66	17.94
1123	SEI-480	6520-RockA	60.44	19.45
1124	SEI-480	6520-RockB	60.44	19.45
1125	SEI-481	6520-RockA	58.81	18.44
1126	SEI-481	6520-RockB	58.81	18.44
1127	SEI-482	6520-RockA	70.41	29.64
1128	SEI-482	6520-RockB	70.41	29.64
1129	SEI-483	6520-RockA	58.55	17.62
1130	SEI-483	6520-RockB	58.55	17.62
1131	SEI-484	6520-RockA	67.2	26.18
1132	SEI-484	6520-RockB	67.2	26.18
1133	SEI-485	6520-RockA	59.51	18.61
1134	SEI-485	6520-RockB	59.51	18.61
1135	SEI-486	6520-RockA	59.71	19.12
1136	SEI-486	6520-RockB	59.71	19.12
1137	SEI-487	6520-RockA	60.98	20.46
1138	SEI-487	6520-RockB	60.98	20.46
1139	SEI-488	6520-RockA	59.18	18.66
1140	SEI-488	6520-RockB	59.18	18.66
1141	SEI-489	6520-RockA	64.76	24.27
1142	SEI-489	6520-RockB	64.76	24.27
1147	SEI-488-MS	6520-RockA	57.71	16.6
1148	SEI-488-MS	6520-RockB	57.71	16.6
1149	SEI-492	6520-RockA	38.62	-1.8
1150	SEI-492	6520-RockB	38.62	-1.8
1151	SEI-493	6520-RockA	64.08	22.86
1152	SEI-493	6520-RockB	64.08	22.86
1153	SEI-494	6520-RockA	64.12	23.36
1154	SEI-494	6520-RockB	64.12	23.36
1155	SEI-495	6520-RockA	57.85	17
1156	SEI-495	6520-RockB	57.85	17
1157	SEI-496	6520-RockA	71.35	30.33
1158	SEI-496	6520-RockB	71.35	30.33
1159	SEI-497	6520-RockA	65.96	25.23
1160	SEI-497	6520-RockB	65.96	25.23
1161	SEI-498	6520-RockA	63.02	22.08
1162	SEI-498	6520-RockB	63.02	22.08
1163	SEI-499	6520-RockA	65.7	24.98

Sample Weights

ImpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
1164	SEI-499	6520-RockB	65.7	24.98
1173	SEI-472-LD	6520-RockA	65.69	24.82
1174	SEI-472-LD	6520-RockB	65.69	24.82
1179	SEI-483-LD	6520-RockA	58.55	17.62
1180	SEI-483-LD	6520-RockB	58.55	17.62
1181	SEI-504	6520-RockA	60.31	19.3
1182	SEI-504	6520-RockB	60.31	19.3
1183	SEI-505	6520-RockA	57.21	17.07
1184	SEI-505	6520-RockB	57.21	17.07
1185	SEI-506	6520-RockA	59.07	18.45
1186	SEI-506	6520-RockB	59.07	18.45
1187	SEI-507	6520-RockA	60.09	19.15
1188	SEI-507	6520-RockB	60.09	19.15
1189	SEI-508	6520-RockA	63.36	22.6
1190	SEI-508	6520-RockB	63.36	22.6
1191	SEI-509	6520-RockA	60.91	20.46
1192	SEI-509	6520-RockB	60.91	20.46
1193	SEI-510	6520-RockA	64.14	23.48
1194	SEI-510	6520-RockB	64.14	23.48
1195	SEI-511	6520-RockA	58.1	17.88
1196	SEI-511	6520-RockB	58.1	17.88
1197	SEI-512	6520-RockA	69.85	28.61
1198	SEI-512	6520-RockB	69.85	28.61
1199	SEI-513	6520-RockA	58.59	17.66
1200	SEI-513	6520-RockB	58.59	17.66
1201	SEI-514	6520-RockA	59	18.63
1202	SEI-514	6520-RockB	59	18.63
1203	SEI-515	6520-RockA	61.82	21.09
1204	SEI-515	6520-RockB	61.82	21.09
1205	SEI-516	6520-RockA	56.06	15.69
1206	SEI-516	6520-RockB	56.06	15.69
1207	SEI-517	6520-RockA	59.6	18.85
1208	SEI-517	6520-RockB	59.6	18.85
1209	SEI-518	6520-RockA	58.34	17.47
1210	SEI-518	6520-RockB	58.34	17.47
1211	SEI-519	6520-RockA	38.76	-1.86
1212	SEI-519	6520-RockB	38.76	-1.86
1213	SEI-520	6520-RockA	58.22	17.53
1214	SEI-520	6520-RockB	58.22	17.53
1215	SEI-521	6520-RockA	71.98	31.13
1216	SEI-521	6520-RockB	71.98	31.13
1221	SEI-522	6520-RockA	59.48	18.74
1222	SEI-522	6520-RockB	59.48	18.74
1223	SEI-523	6520-RockA	59.12	18.13
1224	SEI-523	6520-RockB	59.12	18.13
1225	SEI-524	6520-RockA	61.96	21.29
1226	SEI-524	6520-RockB	61.96	21.29
1227	SEI-525	6520-RockA	64.22	22.76

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
1228	SEI-525	6520-RockB	64.22	22.76
1229	SEI-526	6520-RockA	61.48	20.75
1230	SEI-526	6520-RockB	61.48	20.75
1231	SEI-527	6520-RockA	58.58	17.3
1232	SEI-527	6520-RockB	58.58	17.3
1233	SEI-528	6520-RockA	66.9	26.3
1234	SEI-528	6520-RockB	66.9	26.3
1235	SEI-529	6520-RockA	57.36	16.9
1236	SEI-529	6520-RockB	57.36	16.9
1237	SEI-530	6520-RockA	60.3	19.94
1238	SEI-530	6520-RockB	60.3	19.94
1239	SEI-531	6520-RockA	57.27	16.49
1240	SEI-531	6520-RockB	57.27	16.49
1241	SEI-532	6520-RockA	56.44	15.84
1242	SEI-532	6520-RockB	56.44	15.84
1243	SEI-533	6520-RockA	58.42	17.58
1244	SEI-533	6520-RockB	58.42	17.58
1245	SEI-534	6520-RockA	55.62	14.79
1246	SEI-534	6520-RockB	55.62	14.79
1247	SEI-535	6520-RockA	73.01	32.14
1248	SEI-535	6520-RockB	73.01	32.14
1249	SEI-536	6520-RockA	60.42	19.44
1250	SEI-536	6520-RockB	60.42	19.44
1258	SEI-518	6520-RockA	58.34	17.47
1259	SEI-516-MS	6520-RockB	58.34	17.47
1267	SEI-538	6520-RockA	62.2	21.49
1268	SEI-538	6520-RockB	62.2	21.49
1269	SEI-539	6520-RockA	61.34	20.39
1270	SEI-539	6520-RockB	61.34	20.39
1271	SEI-540	6520-RockA	57.17	16.8
1272	SEI-540	6520-RockB	57.17	16.8
1273	SEI-541	6520-RockA	68.62	27.69
1274	SEI-541	6520-RockB	68.62	27.69
1279	SEI-540-MS	6520-RockA	61.45	20.72
1280	SEI-540-MS	6520-RockB	61.45	20.72
1281	SEI-544	6520-RockA	41.3	0.17
1282	SEI-544	6520-RockB	41.3	0.17
1283	SEI-545	6520-RockA	61.82	20.64
1284	SEI-545	6520-RockB	61.82	20.64
1285	SEI-546	6520-RockA	67.76	26.99
1286	SEI-546	6520-RockB	67.76	26.99
1287	SEI-547	6520-RockA	60.82	19.93
1288	SEI-547	6520-RockB	60.82	19.93
1289	SEI-548	6520-RockA	69.48	28.61
1290	SEI-548	6520-RockB	69.48	28.61
1291	SEI-549	6520-RockA	57.26	16.94
1292	SEI-549	6520-RockB	57.26	16.94
1295	SEI-548-MS	6520-RockA	60.4	19.44

Sample Weights

mpleAnalysis	LabID	AnalysisRequested	FinalVialMass	FinalSampleWeight
1296	SEI-548-MS	6520-RockB	60.4	19.44
1297	SEI-551	6520-RockA	39.87	-1.43
1298	SEI-551	6520-RockB	39.87	-1.43
1301	SEI-538-LD	6520-RockA	62.2	21.49
1302	SEI-538-LD	6520-RockB	62.2	21.49
1305	SEI-540-LD	6520-RockA	57.17	16.8
1306	SEI-540-LD	6520-RockB	57.17	16.8
1309	SEI-546-LD	6520-RockA	67.76	26.99
1310	SEI-546-LD	6520-RockB	67.76	26.99

STONE ENVIRONMENTAL INC

MALCOLM PIRNIE, SOUTH PLAINFIELD, NJ
PROJECT NO. 082130-R
STONE ENVIRONMENTAL, INC. LABORATORY

LABORATORY RESULTS SUMMARIES
VOLATILE ORGANIC COMPOUNDS BY GC ECD

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/05/2009 - 02/06/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-1		

Depth	CAS #	023.30		024.80		026.40		027.65		030.60		033.00		035.70		036.90	
Sample Name		CDEMDMW140 23.30VOC		CDEMDMW140 24.80VOC		CDEMDMW140 26.40VOC		CDEMDMW140 27.65VOC		CDEMDMW140 30.60VOC		CDEMDMW140 33.00VOC		CDEMDMW140 35.70VOC		CDEMDMW140 36.90VOC	
Analysis Date		2/6/2009	N	2/6/2009	N	2/6/2009	N	2/6/2009	N	2/6/2009	N	2/6/2009	N	2/6/2009	N	2/6/2009	N
1,1-Dichloroethene	75-35-4	9.1		3.1	J	1.8	J	11	U	6.9	U	14		11	U	9.9	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.82	U	0.70	U	0.75	U	1.1	U	0.69	U	1.2	U	1.1	U	0.99	U
trans-1,2-Dichloroethene	156-60-5	39		12		32		23		14		82		23		21	
cis-1,2-Dichloroethene	156-59-2	17000		7700		9600		10000		3900		22000		6400		7200	
Chloroform	67-66-3	0.82	U	0.70	U	1.0		1.1	U	0.69	U	1.2	U	1.1	U	0.99	U
Carbon Tetrachloride	56-23-5	0.82	U	0.70	U	0.75	U	1.1	U	0.69	U	1.2	U	1.1	U	0.99	U
1,1,1-Trichloroethane	71-55-6	0.82	U	0.70	U	0.75	U	1.1	U	0.69	U	1.2	U	1.1	U	0.99	U
Trichloroethene	79-01-6	2100		790		3300		2500		710		7700		4400		5700	
Tetrachloroethene	127-18-4	3.3		1.0		1.4		1.3		0.69	U	4.7		1.2		1.6	

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
D = Sample analyzed at a dilution.
N = Normal sample.
EB = Equipment Blank
B = indicates blank contamination.

STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/05/2009 - 02/06/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-1		

Depth	CAS #	038.50		040.80		043.20		044.40		046.50		047.60		050.65		052.60	
Sample Name		CDEMDMW140 38.50VOC		CDEMDMW140 40.80VOC		CDEMDMW140 43.20VOC		CDEMDMW140 44.40VOC		CDEMDMW140 46.50VOC		CDEMDMW140 47.60VOC		CDEMDMW140 50.65VOC		CDEMDMW140 52.60VOC	
Analysis Date		2/6/2009	N	2/6/2009	N	2/6/2009	N	2/6/2009	N	2/6/2009	N	2/6/2009	N	2/9/2009	N	2/9/2009	N
1,1-Dichloroethene	75-35-4	8.0	U	7.5	U	9.7	U	6.5	U	11	U	11	U	10	U	8.5	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.80	U	0.75	U	0.97	U	0.65	U	1.1	U	1.1	U	1.0	U	0.85	U
trans-1,2-Dichloroethene	156-60-5	16		12		5.5	J	9.9		11	U	5.5	J	10	U	8.5	U
cis-1,2-Dichloroethene	156-59-2	5300		4100		2200		3400		1000		3000		270		840	
Chloroform	67-66-3	0.80	U	0.75	U	0.97	U	0.65	U	1.1	U	1.1	U	1.0	U	0.85	U
Carbon Tetrachloride	56-23-5	0.80	U	0.75	U	0.97	U	0.65	U	1.1	U	1.1	U	1.0	U	0.85	U
1,1,1-Trichloroethane	71-55-6	0.80	U	0.75	U	0.97	U	0.65	U	1.1	U	1.1	U	1.0	U	0.85	U
Trichloroethene	79-01-6	3900		4200		5000		3500		3100		4400		1100		2200	
Tetrachloroethene	127-18-4	1.1		1.4		1.3		2.6		1.1	U	1.4		1.0	U	1.8	

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/05/2009 - 02/06/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-1		

Depth	CAS #	055.00		057.00		058.20		059.80	
Sample Name		CDEMDMW140 55.00VOC		CDEMDMW140 57.00VOC		CDEMDMW140 58.20VOC		CDEMDMW140 59.80VOC	
Analysis Date		2/9/2009	N	2/9/2009	N	2/9/2009	N	2/9/2009	N
1,1-Dichloroethene	75-35-4	9.7	U	8.1	U	8.4	U	12	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.97	U	0.81	U	0.84	U	1.2	U
trans-1,2-Dichloroethene	156-60-5	9.7	U	8.1	U	22		12	U
cis-1,2-Dichloroethene	156-59-2	2500		380		6100		1100	
Chloroform	67-66-3	0.97	U	0.81	U	0.84	U	1.2	U
Carbon Tetrachloride	56-23-5	0.97	U	0.81	U	0.84	U	1.2	U
1,1,1-Trichloroethane	71-55-6	0.97	U	0.81	U	0.84	U	1.2	U
Trichloroethene	79-01-6	2300		1400		3600		1300	
Tetrachloroethene	127-18-4	1.0		1.1		3.1		2.2	

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/3/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/06/2009 - 02/06/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-2		

Depth	CAS #	061.50		064.70		066.50		067.80		074.00		075.90		079.20		080.30	
Sample Name		CDEMDMW140 61.50VOC		CDEMDMW140 64.70VOC		CDEMDMW140 66.50VOC		CDEMDMW140 67.80VOC		CDEMDMW140 74.00VOC		CDEMDMW140 75.90VOC		CDEMDMW140 79.20VOC		CDEMDMW140 80.30VOC	
Analysis Date		2/9/2009	N	2/9/2009	N	2/9/2009	N	2/9/2009	N	2/25/2009	N	2/25/2009	N	2/25/2009	N	2/25/2009	N
1,1-Dichloroethene	75-35-4	9.8	U	12	U	7.5	U	6.9	U	11	U	10	U	12	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.98	U	1.2	U	0.75	U	0.69	U	1.1	U	1.0	U	1.2	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	9.8	U	12	U	7.5	U	6.9	U	11	U	10	U	12	U	11	U
cis-1,2-Dichloroethene	156-59-2	820		62		350		540		11	U	84		12	U	11	U
Chloroform	67-66-3	0.98	U	1.2	U	0.75	U	0.69	U	1.1	U	1.0	U	1.2	U	1.1	U
Carbon Tetrachloride	56-23-5	0.98	U	1.2	U	0.75	U	0.69	U	1.1	U	1.0	U	1.2	U	1.1	U
1,1,1-Trichloroethane	71-55-6	0.98	U	1.2	U	0.75	U	0.69	U	1.1	U	1.0	U	1.2	U	1.1	U
Trichloroethene	79-01-6	790		150		220		490		1.1	U	300		72		19	
Tetrachloroethene	127-18-4	2.0		1.2	U	0.75	U	1.1		1.1	U	20		1.4		1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/3/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/06/2009 - 02/06/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-2		

Depth	CAS #	082.50		083.70		085.80		089.00		090.50		091.80		094.80		096.70	
Sample Name		CDEMDMW140 82.50VOC		CDEMDMW140 83.70VOC		CDEMDMW140 85.80VOC		CDEMDMW140 89.00VOC		CDEMDMW140 90.50VOC		CDEMDMW140 91.80VOC		CDEMDMW140 94.80VOC		CDEMDMW140 96.70VOC	
Analysis Date		2/25/2009	N	2/25/2009	N	2/25/2009	N	2/26/2009	N	2/26/2009	N	2/26/2009	N	2/26/2009	N	2/26/2009	N
1,1-Dichloroethene	75-35-4	8.5	U	8.5	U	7.7	U	9.7	U	9.4	U	7.2	U	9.8	U	8.8	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.85	U	0.85	U	0.77	U	0.97	U	0.94	U	0.72	U	0.98	U	0.88	U
trans-1,2-Dichloroethene	156-60-5	8.5	U	8.5	U	7.7	U	9.7	U	9.4	U	7.2	U	9.8	U	8.8	U
cis-1,2-Dichloroethene	156-59-2	8.5	U	8.5	U	7.7	U	9.7	U	9.4	U	7.2	U	9.8	U	8.8	U
Chloroform	67-66-3	0.85	U	0.85	U	0.77	U	0.97	U	0.94	U	0.72	U	0.98	U	0.88	U
Carbon Tetrachloride	56-23-5	0.85	U	0.85	U	0.77	U	0.97	U	0.94	U	0.72	U	0.98	U	0.88	U
1,1,1-Trichloroethane	71-55-6	0.85	U	0.85	U	0.77	U	0.97	U	0.94	U	0.72	U	0.98	U	0.88	U
Trichloroethene	79-01-6	43		4.3		12		18		0.94	U	0.72	U	0.77	J	3.7	
Tetrachloroethene	127-18-4	0.85	U	0.85	U	1.1		0.97	U	0.94	U	0.72	U	0.98	U	1.0	

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/06/2009 - 02/06/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-2		

Depth	CAS #	099.00		101.00		104.10	
Sample Name		CDEMDMW140 99.00VOC		CDEMDMW141 01.00VOC		CDEMDMW141 04.10VOC	
Analysis Date		2/26/2009	N	2/26/2009	N	2/26/2009	N
1,1-Dichloroethene	75-35-4	9.5	U	7.6	U	5.8	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.95	U	0.76	U	0.58	U
trans-1,2-Dichloroethene	156-60-5	9.5	U	7.6	U	5.8	U
cis-1,2-Dichloroethene	156-59-2	9.5	U	7.6	U	5.8	U
Chloroform	67-66-3	0.95	U	0.76	U	0.58	U
Carbon Tetrachloride	56-23-5	0.95	U	0.76	U	0.58	U
1,1,1-Trichloroethane	71-55-6	0.95	U	0.76	U	0.58	U
Trichloroethene	79-01-6	0.95	U	0.76	U	0.58	U
Tetrachloroethene	127-18-4	0.95	U	0.76	U	0.58	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/3/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/25/2009 - 02/26/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-3		

Depth	CAS #	105.60		106.60		108.80		111.50		114.20		115.70		117.60		118.50	
Sample Name		CDEMDMW141 05.60VOC		CDEMDMW141 06.60VOC		CDEMDMW141 08.80VOC		CDEMDMW141 11.50VOC		CDEMDMW141 14.20VOC		CDEMDMW141 15.70VOC		CDEMDMW141 17.60VOC		CDEMDMW141 18.50VOC	
Analysis Date		2/26/2009	N	2/26/2009	N	2/26/2009	N	2/26/2009	N	2/26/2009	N	2/26/2009	N	2/26/2009	N	2/26/2009	N
1,1-Dichloroethene	75-35-4	9.1	U	6.4	U	11	U	8.3	U	8.1	U	8.3	U	5.1	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.91	U	0.64	U	1.1	U	0.83	U	0.81	U	0.83	U	0.51	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	9.1	U	6.4	U	11	U	8.3	U	8.1	U	8.3	U	5.1	U	11	U
cis-1,2-Dichloroethene	156-59-2	9.1	U	6.4	U	11	U	8.3	U	8.1	U	8.3	U	5.1	U	11	U
Chloroform	67-66-3	0.91	U	0.64	U	1.1	U	0.83	U	0.81	U	0.83	U	0.51	U	1.1	U
Carbon Tetrachloride	56-23-5	0.91	U	0.64	U	1.1	U	0.83	U	0.81	U	0.83	U	0.51	U	1.1	U
1,1,1-Trichloroethane	71-55-6	0.91	U	0.64	U	1.1	U	0.83	U	0.81	U	0.83	U	0.51	U	1.1	U
Trichloroethene	79-01-6	0.91	U	0.64	U	4.8		0.83	U	9.4		4.4		0.47	J	3.7	
Tetrachloroethene	127-18-4	0.91	U	0.64	U	1.1		0.83	U	0.89		0.83	U	0.51	U	1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/25/2009 - 02/26/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-3		

Depth	CAS #	120.50		122.40		124.80		127.30		128.50		129.50		131.90		134.00	
Sample Name		CDEMDMW141 20.50VOC		CDEMDMW141 22.40VOC		CDEMDMW141 24.80VOC		CDEMDMW141 27.30VOC		CDEMDMW141 28.50VOC		CDEMDMW141 29.50VOC		CDEMDMW141 31.90VOC		CDEMDMW141 34.00VOC	
Analysis Date		2/26/2009	N	2/26/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N
1,1-Dichloroethene	75-35-4	9.0	U	9.8	U	11	U	11	U	10	U	11	U	6.7	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.90	U	0.98	U	1.1	U	1.1	U	1.0	U	1.1	U	0.67	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	9.0	U	9.8	U	11	U	11	U	10	U	11	U	6.7	U	11	U
cis-1,2-Dichloroethene	156-59-2	9.0	U	9.8	U	11	U	11	U	10	U	11	U	6.7	U	11	U
Chloroform	67-66-3	0.90	U	0.98	U	1.1	U	1.1	U	1.0	U	1.1	U	0.67	U	1.1	U
Carbon Tetrachloride	56-23-5	0.90	U	0.98	U	1.1	U	1.1	U	1.0	U	1.1	U	0.67	U	1.1	U
1,1,1-Trichloroethane	71-55-6	0.90	U	0.98	U	1.1	U	1.1	U	1.0	U	1.1	U	0.67	U	1.1	U
Trichloroethene	79-01-6	2.1		4.3		1.1	U	1.1	U	1.8		2.2		2.0		1.1	U
Tetrachloroethene	127-18-4	0.90	U	0.98	U	1.1	U	1.1	U	1.0	U	1.1	U	0.67	U	1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/25/2009 - 02/26/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg
HOLE ID:	CDEMDMW14-3		

Depth	CAS #	135.30		136.90		138.80	
Sample Name		CDEMDMW141 35.30VOC		CDEMDMW141 36.90VOC		CDEMDMW141 38.80VOC	
Analysis Date		2/27/2009	N	2/27/2009	N	2/27/2009	N
1,1-Dichloroethene	75-35-4	7.6	U	11	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.76	U	1.1	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	7.6	U	11	U	10	U
cis-1,2-Dichloroethene	156-59-2	7.6	U	11	U	10	U
Chloroform	67-66-3	0.76	U	1.1	U	1.0	U
Carbon Tetrachloride	56-23-5	0.76	U	1.1	U	1.0	U
1,1,1-Trichloroethane	71-55-6	0.76	U	1.1	U	1.0	U
Trichloroethene	79-01-6	1.6		3.7		1.9	
Tetrachloroethene	127-18-4	0.76	U	1.1	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/26/2009 - 02/27/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-4		

Depth	CAS #	141.80		143.40		145.50		146.70		150.10		152.80		154.00		155.00	
Sample Name		CDEMDMW141 41.80VOC		CDEMDMW141 43.40VOC		CDEMDMW141 45.50VOC		CDEMDMW141 46.70VOC		CDEMDMW141 50.10VOC		CDEMDMW141 52.80VOC		CDEMDMW141 54.00VOC		CDEMDMW141 55.00VOC	
Analysis Date		2/27/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N
1,1-Dichloroethene	75-35-4	9.8	U	11	U	8.7	U	8.6	U	12	U	6.6	U	7.9	U	9.1	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.98	U	1.1	U	0.87	U	0.86	U	1.2	U	0.66	U	0.79	U	0.91	U
trans-1,2-Dichloroethene	156-60-5	9.8	U	11	U	8.7	U	8.6	U	12	U	6.6	U	7.9	U	9.1	U
cis-1,2-Dichloroethene	156-59-2	9.8	U	11	U	8.7	U	8.6	U	12	U	6.6	U	7.9	U	9.1	U
Chloroform	67-66-3	0.98	U	1.1	U	0.87	U	0.86	U	1.2	U	0.66	U	0.79	U	0.91	U
Carbon Tetrachloride	56-23-5	0.98	U	1.1	U	0.87	U	0.86	U	1.2	U	0.66	U	0.79	U	0.91	U
1,1,1-Trichloroethane	71-55-6	0.98	U	1.1	U	0.87	U	0.86	U	1.2	U	0.66	U	0.79	U	0.91	U
Trichloroethene	79-01-6	3.0		1.1	U	1.8		3.1		1.2	U	2.2		0.79	U	0.91	U
Tetrachloroethene	127-18-4	0.98	U	1.1	U	0.87	U	0.86	U	1.2	U	0.66	U	0.79	U	0.91	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/26/2009 - 02/27/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-4		

Depth	CAS #	157.70		159.20		161.10		164.30		165.50		167.00		168.90		170.70	
Sample Name		CDEMDMW141 57.70VOC		CDEMDMW141 59.20VOC		CDEMDMW141 61.10VOC		CDEMDMW141 64.30VOC		CDEMDMW141 65.50VOC		CDEMDMW141 67.00VOC		CDEMDMW141 68.90VOC		CDEMDMW141 70.70VOC	
Analysis Date		2/27/2009	N	2/27/2009	N	2/27/2009	N	3/2/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N
1,1-Dichloroethene	75-35-4	8.0	U	10	U	12	U	11	U	10	U	8.8	U	9.8	U	8.5	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.80	U	1.0	U	1.2	U	1.1	U	1.0	U	0.88	U	0.98	U	0.85	U
trans-1,2-Dichloroethene	156-60-5	8.0	U	10	U	12	U	11	U	10	U	8.8	U	9.8	U	8.5	U
cis-1,2-Dichloroethene	156-59-2	8.0	U	10	U	12	U	11	U	10	U	8.8	U	9.8	U	8.5	U
Chloroform	67-66-3	0.80	U	1.0	U	1.2	U	0.98	J	1.0	U	0.88	U	0.98	U	0.85	U
Carbon Tetrachloride	56-23-5	0.80	U	1.0	U	1.2	U	1.1	U	1.0	U	0.88	U	0.98	U	0.85	U
1,1,1-Trichloroethane	71-55-6	0.80	U	1.0	U	1.2	U	1.1	U	1.0	U	0.88	U	0.98	U	0.85	U
Trichloroethene	79-01-6	0.86		1.0	U	1.2	U	1.1	U	2.4		0.88	U	5.3		1.2	
Tetrachloroethene	127-18-4	0.80	U	1.0	U	1.2	U	1.1	U	1.0	U	0.88	U	0.61	J	0.85	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/26/2009 - 02/27/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-4		

Depth	CAS #	174.50		175.50		177.40	
Sample Name		CDEMDMW141 74.50VOC		CDEMDMW141 75.50VOC		CDEMDMW141 77.40VOC	
Analysis Date		2/27/2009	N	2/27/2009	N	2/27/2009	N
1,1-Dichloroethene	75-35-4	11	U	7.0	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.1	U	0.70	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	11	U	7.0	U	11	U
cis-1,2-Dichloroethene	156-59-2	11	U	7.0	U	11	U
Chloroform	67-66-3	1.1	U	0.70	U	1.1	U
Carbon Tetrachloride	56-23-5	1.1	U	0.70	U	1.1	U
1,1,1-Trichloroethane	71-55-6	1.1	U	0.70	U	1.1	U
Trichloroethene	79-01-6	5.5		2.5		3.2	
Tetrachloroethene	127-18-4	0.85	U	0.70	U	1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/27/2009 - 03/02/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-5		

Depth	CAS #	180.20		181.80		184.10		185.70		186.80		188.80		190.60		193.60	
Sample Name		CDEMDMW141 80.20VOC		CDEMDMW141 81.80VOC		CDEMDMW141 84.10VOC		CDEMDMW141 85.70VOC		CDEMDMW141 86.80VOC		CDEMDMW141 88.80VOC		CDEMDMW141 90.60VOC		CDEMDMW141 93.60VOC	
Analysis Date		2/27/2009	N	2/27/2009	N	2/27/2009	N	2/27/2009	N	2/28/2009	N	3/2/2009	N	3/2/2009	N	3/2/2009	N
1,1-Dichloroethene	75-35-4	11	U	9.5	U	13	U	11	U	6.4	U	11	U	11	U	9.4	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.1	U	0.95	U	1.3	U	1.1	U	0.64	U	1.1	U	1.1	U	0.94	U
trans-1,2-Dichloroethene	156-60-5	11	U	9.5	U	13	U	11	U	6.4	U	11	U	11	U	9.4	U
cis-1,2-Dichloroethene	156-59-2	11	U	9.5	U	13	U	11	U	6.4	U	11	U	11	U	9.4	U
Chloroform	67-66-3	1.1	U	0.95	U	1.3	U	1.1	U	0.64	U	1.1	U	1.1	U	0.94	U
Carbon Tetrachloride	56-23-5	1.1	U	0.95	U	1.3	U	1.1	U	0.64	U	1.1	U	1.1	U	0.94	U
1,1,1-Trichloroethane	71-55-6	1.1	U	0.95	U	1.3	U	1.1	U	0.64	U	1.1	U	1.1	U	0.94	U
Trichloroethene	79-01-6	1.1	U	2.1		2.5		2.0		0.64	U	1.1	U	5.2		1.9	
Tetrachloroethene	127-18-4	1.1	U	0.95	U	1.3	U	1.1	U	0.64	U	1.1	U	1.1	U	0.94	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/27/2009 - 03/02/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-5		

Depth	CAS #	196.20		197.40		199.30		201.10		203.60		205.00		206.60		208.50	
Sample Name		CDEMDMW141 96.20VOC		CDEMDMW141 97.40VOC		CDEMDMW141 99.30VOC		CDEMDMW142 01.10VOC		CDEMDMW142 03.60VOC		CDEMDMW142 05.00VOC		CDEMDMW142 06.60VOC		CDEMDMW142 08.50VOC	
Analysis Date		3/2/2009	N	3/2/2009	N	3/2/2009	N	3/2/2009	N	3/2/2009	N	3/2/2009	N	3/2/2009	N	3/2/2009	N
1,1-Dichloroethene	75-35-4	8.8	U	9.6	U	12	U	7.6	U	12	U	10	U	12	U	13	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.88	U	0.96	U	1.2	U	0.76	U	1.2	U	1.0	U	1.2	U	1.3	U
trans-1,2-Dichloroethene	156-60-5	8.8	U	9.6	U	12	U	7.6	U	12	U	10	U	12	U	13	U
cis-1,2-Dichloroethene	156-59-2	8.8	U	9.6	U	12	U	7.6	U	12	U	10	U	12	U	13	U
Chloroform	67-66-3	0.88	U	0.96	U	1.2	U	0.76	U	1.2	U	1.0	U	1.2	U	1.3	U
Carbon Tetrachloride	56-23-5	0.88	U	0.96	U	1.2	U	0.76	U	1.2	U	1.0	U	1.2	U	1.3	U
1,1,1-Trichloroethane	71-55-6	0.88	U	0.96	U	1.2	U	0.76	U	1.2	U	1.0	U	1.2	U	1.3	U
Trichloroethene	79-01-6	1.5		1.5		1.2	U	0.76	U	1.2	U	1.6		1.2	U	3.0	
Tetrachloroethene	127-18-4	0.88	U	0.96	U	1.2	U	0.76	U	1.2	U	1.0	U	1.2	U	1.3	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/27/2009 - 03/02/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-5		

Depth	CAS #	210.00		214.60		215.80	
Sample Name		CDEMDMW142 10.00VOC		CDEMDMW142 14.60VOC		CDEMDMW142 15.80VOC	
Analysis Date		3/2/2009	N	3/2/2009	N	3/3/2009	N
1,1-Dichloroethene	75-35-4	11	U	14	U	6.2	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.1	U	1.4	U	0.62	U
trans-1,2-Dichloroethene	156-60-5	11	U	14	U	6.2	U
cis-1,2-Dichloroethene	156-59-2	11	U	14	U	6.2	U
Chloroform	67-66-3	1.8		1.1	J	0.62	U
Carbon Tetrachloride	56-23-5	1.1	U	1.4	U	0.62	U
1,1,1-Trichloroethane	71-55-6	1.1	U	1.4	U	0.62	U
Trichloroethene	79-01-6	2.4		1.9		2.9	
Tetrachloroethene	127-18-4	1.1	U	1.4	U	0.62	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	03/02/2009 - 03/03/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14-6		

Depth	CAS #	216.90		219.90		221.90		223.60		225.70		227.20		228.90		231.30	
Sample Name		CDEMDMW142 16.90VOC		CDEMDMW142 19.90VOC		CDEMDMW142 21.90VOC		CDEMDMW142 23.60VOC		CDEMDMW142 25.70VOC		CDEMDMW142 27.20VOC		CDEMDMW142 28.90VOC		CDEMDMW142 31.30VOC	
Analysis Date		3/3/2009	N	3/3/2009	N	3/3/2009	N	3/3/2009	N	3/3/2009	N	3/3/2009	N	3/3/2009	N	3/3/2009	N
1,1-Dichloroethene	75-35-4	10	U	9.3	U	9.8	U	12	U	9.7	U	7.4	U	10	U	7.0	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.0	U	0.93	U	0.98	U	1.2	U	0.97	U	0.74	U	1.0	U	0.70	U
trans-1,2-Dichloroethene	156-60-5	10	U	9.3	U	9.8	U	12	U	9.7	U	7.4	U	10	U	7.0	U
cis-1,2-Dichloroethene	156-59-2	10	U	9.3	U	9.8	U	12	U	9.7	U	7.4	U	10	U	7.0	U
Chloroform	67-66-3	1.0	U	0.93	U	0.98	U	1.2	U	0.97	U	0.74	U	1.0	U	0.70	U
Carbon Tetrachloride	56-23-5	1.0	U	0.93	U	0.98	U	1.2	U	0.97	U	0.74	U	1.0	U	0.70	U
1,1,1-Trichloroethane	71-55-6	1.0	U	0.93	U	0.98	U	1.2	U	0.97	U	0.74	U	1.0	U	0.70	U
Trichloroethene	79-01-6	1.5		0.93	U	0.98	U	1.2	U	1.5		1.3		1.0	U	0.70	
Tetrachloroethene	127-18-4	1.0	U	0.93	U	0.98	U	1.2	U	0.97	U	0.74	U	1.0	U	0.70	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/06/2009 - 03/03/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg
HOLE ID:	CDEMDMW14FD		

Depth	CAS #	000.01		000.02		000.03		000.04		000.05		000.06	
Sample Name		CDEMDMW14FD001VOC		CDEMDMW14FD002VOC		CDEMDMW14FD003VOC		CDEMDMW14FD004VOC		CDEMDMW14FD005VOC		CDEMDMW14FD006VOC	
Analysis Date		2/9/2009	FD	2/26/2009	FD	2/27/2009	FD	3/2/2009	FD	3/3/2009	FD	3/3/2009	FD
1,1-Dichloroethene	75-35-4	8.6	U	8.6	U	8.2	U	11	U	7.2	U	12	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.86	U	0.86	U	0.82	U	1.1	U	0.72	U	1.2	U
trans-1,2-Dichloroethene	156-60-5	8.6	U	8.6	U	8.2	U	11	U	7.2	U	12	U
cis-1,2-Dichloroethene	156-59-2	770		8.6	U	8.2	U	11	U	7.2	U	12	U
Chloroform	67-66-3	0.86	U	0.86	U	0.82	U	1.1	U	0.72	U	1.2	U
Carbon Tetrachloride	56-23-5	0.86	U	0.86	U	0.82	U	1.1	U	0.72	U	1.2	U
1,1,1-Trichloroethane	71-55-6	0.86	U	0.86	U	0.82	U	1.1	U	0.72	U	1.2	U
Trichloroethene	79-01-6	880		0.86	U	0.82	U	2.6		0.72	U	0.35	J
Tetrachloroethene	127-18-4	1.6		0.86	U	0.82	U	1.1	U	0.72	U	1.2	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/06/2009 - 03/03/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Methanol Extract	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14EB		

Depth	CAS #	000.01		000.02		000.03		000.04		000.05		000.06	
Sample Name		CDEMDMW14EB001VOC		CDEMDMW14EB002VOC		CDEMDMW14EB003VOC		CDEMDMW14EB004VOC		CDEMDMW14EB005VOC		CDEMDMW14EB006VOC	
Analysis Date		2/9/2009	EB	2/26/2009	EB	2/27/2009	EB	2/28/2009	EB	3/3/2009	EB	3/4/2009	EB
1,1-Dichloroethene	75-35-4	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	10	U	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	156-59-2	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	67-66-3	1.0	U	1.0	U	0.92	J	1.8		0.98	J	1.6	
Carbon Tetrachloride	56-23-5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	79-01-6	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	127-18-4	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/05/2009 - 02/26/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 03/04/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Methanol Extract	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW14mb		

Depth	CAS #	000.01		000.02		000.03	
Sample Name		b001		b002		B03	
Analysis Date		2/6/2009	N	2/6/2009	N	2/27/2009	N
1,1-Dichloroethene	75-35-4	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	10	U	10	U	10	U
cis-1,2-Dichloroethene	156-59-2	10	U	10	U	10	U
Chloroform	67-66-3	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	56-23-5	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	U	1.0	U
Trichloroethene	79-01-6	1.0	U	1.0	U	1.0	U
Tetrachloroethene	127-18-4	1.0	U	1.0	U	1.0	U

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Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/21/2009 - 01/23/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg
HOLE ID:	CDEMDMW16-1		

as received

Depth	CAS #	022.50		025.00		027.00		035.00		041.60		042.80		044.80		046.60	
Sample Name		CDEMDMW16022.50VOC		CDEMDMW16025.00VOC		CDEMDMW16027.00VOC		CDEMDMW16035.00VOC		CDEMDMW16041.60VOC		CDEMDMW16042.80VOC		CDEMDMW16044.80VOC		CDEMDMW16046.60VOC	
Analysis Date		1/23/2009	N	1/22/2009	N	1/22/2009	N	1/23/2009	N	1/23/2009	N	1/23/2009	N	1/23/2009	N	1/23/2009	N
1,1-Dichloroethene	75-35-4	14	U	11	U	11	U	25	U	12	U	12	U	6.5	U	6.8	U
1,1,2-Trichloro-1,2,2-trifluoroetl	76-13-1	1.4	U	1.1	U	1.1	U	2.5	U	1.2	U	1.2	U	0.65	U	0.68	U
trans-1,2-Dichloroethene	156-60-5	14	U	11	U	11	U	25	U	12	U	12	U	6.5	U	6.8	U
cis-1,2-Dichloroethene	156-59-2	14	U	11	U	15		25	U	26		12	U	1.4	J	100	
Chloroform	67-66-3	1.4	U	1.1	U	1.1	U	2.5	U	1.2	U	1.2	U	0.65	U	0.68	U
Carbon Tetrachloride	56-23-5	1.4	U	1.1	U	1.1	U	2.5	U	1.2	U	1.2	U	0.65	U	0.68	U
1,1,1-Trichloroethane	71-55-6	1.4	U	11	U	11	U	2.5	U	1.2	U	1.2	U	0.65	U	0.68	U
Trichloroethene	79-01-6	1.4	U	8.0		24		36		77		14		58		390	
Tetrachloroethene	127-18-4	1.4	U	1.1	U	1.1	U	2.5	U	1.2	U	1.2	U	0.65	U	0.68	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/23/2009 - 01/23/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW16-2		

Depth	CAS #	048.20		050.00		052.00		054.30		055.90		058.20		060.40		062.00	
Sample Name		CDEMDMW16048.20VOC		CDEMDMW16050.00VOC		CDEMDMW16052.00VOC		CDEMDMW16054.30VOC		CDEMDMW16055.90VOC		CDEMDMW16058.20VOC		CDEMDMW16060.40VOC		CDEMDMW16062.00VOC	
Analysis Date		1/23/2009	N	1/23/2009	N	1/23/2009	N	1/26/2009	N	1/26/2009	N	1/26/2009	N	1/26/2009	N	1/26/2009	N
1,1-Dichloroethene	75-35-4	10	U	11	U	11	U	13	U	11	U	12	U	11	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.0	U	1.1	U	1.1	U	1.3	U	1.1	U	1.2	U	1.1	U	0.91	J
trans-1,2-Dichloroethene	156-60-5	10	U	11	U	11	U	13	U	11	U	12	U	11	U	11	U
cis-1,2-Dichloroethene	156-59-2	28		37		49		13	U	46		9.5	J	7.4	J	32	
Chloroform	67-66-3	1.0	U	1.1	U	1.1	U	1.3	U	1.1	U	1.2	U	1.1	U	1.1	U
Carbon Tetrachloride	56-23-5	1.0	U	1.1	U	1.1	U	1.3	U	1.1	U	1.2	U	1.1	U	1.1	U
1,1,1-Trichloroethane	71-55-6	1.0	U	1.1	U	1.1	U	1.3	U	1.1	U	1.2	U	1.1	U	1.1	U
Trichloroethene	79-01-6	170		170		170		19		310		71		120		240	
Tetrachloroethene	127-18-4	1.0	U	1.1	U	1.1	U	1.3	U	1.1	U	1.2	U	1.1	U	1.1	U

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Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/26/2009 - 01/26/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW16-3		

Depth	CAS #	064.55		066.60		068.00		070.10		072.20		074.30		075.90		078.00	
Sample Name		CDEMDMW16064.55VOC		CDEMDMW16066.60VOC		CDEMDMW16068.00VOC		CDEMDMW16070.10VOC		CDEMDMW16072.20VOC		CDEMDMW16074.30VOC		CDEMDMW16075.90VOC		CDEMDMW16078.00VOC	
Analysis Date		1/26/2009	N	1/26/2009	N	1/26/2009	N	1/26/2009	N	1/26/2009	N	1/27/2009	N	1/27/2009	N	1/27/2009	N
1,1-Dichloroethene	75-35-4	11	U	5.4	J	6.3	J	1.4	J	3.8	J	11	U	11		11	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.1	U	0.70	J	0.82	J	0.33	J	0.46	J	1.1	U	1.5		1.1	U
trans-1,2-Dichloroethene	156-60-5	11	U	10	U	12	U	11	U	9.4	U	11	U	8.0	U	11	U
cis-1,2-Dichloroethene	156-59-2	11	U	9.5	J	15		12		6.8	J	11	U	17		20	
Chloroform	67-66-3	1.1	U	1.0	U	1.2	U	1.1	U	0.94	U	1.1	U	0.80	U	1.1	U
Carbon Tetrachloride	56-23-5	1.1	U	1.0	U	1.2	U	1.1	U	0.94	U	1.1	U	0.80	U	1.1	U
1,1,1-Trichloroethane	71-55-6	1.1	U	0.10	J	0.14	J	1.1	U	0.94	U	1.1	U	0.18	J	1.1	U
Trichloroethene	79-01-6	28		150		190		190		120		110		240		200	
Tetrachloroethene	127-18-4	1.1	U	1.1	U	1.2	U	1.1	U	0.94	U	1.1	U	0.80	U	1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/26/2009 - 01/27/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg
HOLE ID:	CDEMDMW16-4		

as received

Depth	CAS #	079.90		082.00		084.55		086.10		087.80		090.10		092.70		094.30	
Sample Name		CDEMDMW16079.90VOC		CDEMDMW16082.00VOC		CDEMDMW16084.55VOC		CDEMDMW16086.10VOC		CDEMDMW16087.80VOC		CDEMDMW16090.10VOC		CDEMDMW16092.70VOC		CDEMDMW16094.30VOC	
Analysis Date		1/27/2009	N	1/27/2009	N	1/27/2009	N	1/27/2009	N	1/27/2009	N	1/27/2009	N	1/27/2009	N	1/27/2009	N
1,1-Dichloroethene	75-35-4	11	U	11	U	13	U	16	U	11	U	9.8	U	10	U	20	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.1	U	1.1	U	1.3	U	1.6	U	1.1	U	0.98	U	1.0	U	2.0	U
trans-1,2-Dichloroethene	156-60-5	11	U	11	U	13	U	16	U	11	U	9.8	U	10	U	20	U
cis-1,2-Dichloroethene	156-59-2	7.2	J	12		13	U	16	U	2.3	J	0.66	J	10	U	2.0	J
Chloroform	67-66-3	1.1	U	1.1	U	1.3	U	1.6	U	1.1	U	0.98	U	1.0	U	2.0	U
Carbon Tetrachloride	56-23-5	1.1	U	1.1	U	1.3	U	0.44	J	0.65	J	0.13	J	0.28	J	2.0	U
1,1,1-Trichloroethane	71-55-6	1.1	U	1.1	U	1.3	U	1.6	U	1.1	U	0.98	U	1.0	U	2.0	U
Trichloroethene	79-01-6	120		150		120		120		89		81		5.7		140	
Tetrachloroethene	127-18-4	1.1	U	1.1	U	1.3	U	1.6	U	1.1	U	0.98	U	1.0	U	2.0	U

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Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/27/2009 - 01/27/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW16-5		

Depth	CAS #	096.10		098.40		099.80		101.90		104.70		106.10		107.40		110.20	
Sample Name		CDEMDMW16096.10VOC		CDEMDMW16098.40VOC		CDEMDMW16099.80VOC		CDEMDMW16101.90VOC		CDEMDMW16104.70VOC		CDEMDMW16106.10VOC		CDEMDMW16107.40VOC		CDEMDMW16110.20VOC	
Analysis Date		1/27/2009	N	1/27/2009	N	1/27/2009	N	1/27/2009	N	1/28/2009	N	1/28/2009	N	1/28/2009	N	1/28/2009	N
1,1-Dichloroethene	75-35-4	8.5	U	12	U	14	U	11	U	9.4	U	11	U	9.0	U	12	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.85	U	1.2	U	1.4	U	1.1	U	0.94	U	1.1	U	0.90	U	1.2	U
trans-1,2-Dichloroethene	156-60-5	8.5	U	12	U	14	U	11	U	9.4	U	11	U	9.0	U	12	U
cis-1,2-Dichloroethene	156-59-2	8.5	U	12	U	14	U	6.8	J	15		18		22		17	
Chloroform	67-66-3	0.85	U	1.2	U	1.4	U	1.1	U	0.94	U	1.1	U	0.90	U	1.2	U
Carbon Tetrachloride	56-23-5	0.42	J	0.51	J	1.4	U	1.1	U	0.94	U	1.1	U	0.90	U	1.2	U
1,1,1-Trichloroethane	71-55-6	0.85	U	1.2	U	1.4	U	1.1	U	0.94	U	1.1	U	0.90	U	1.2	U
Trichloroethene	79-01-6	9.9		40		30		110		120		160		130		130	
Tetrachloroethene	127-18-4	0.85	U	1.2	U	1.4	U	1.1	U	0.94	U	1.1	U	0.90	U	1.2	U

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Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/27/2009 - 01/28/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW16-6		

Depth	CAS #	112.20		114.40		115.70		117.40		119.70		122.50		125.50		126.70	
Sample Name		CDEMDMW16112.20VOC		CDEMDMW16114.4VOC		CDEMDMW16115.70VOC		CDEMDMW16117.40VOC		CDEMDMW16119.70VOC		CDEMDMW16122.50VOC		CDEMDMW16125.50VOC		CDEMDMW16126.70VOC	
Analysis Date		1/28/2009	N	1/28/2009	N	1/28/2009	N	1/28/2009	N	1/28/2009	N	1/28/2009	N	1/28/2009	N	1/28/2009	N
1,1-Dichloroethene	75-35-4	9.2	U	13	U	14	U	10	U	11	U	9.0	U	9.0	U	14	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.92	U	1.3	U	1.4	U	1.0	U	1.1	U	0.90	U	0.90	U	1.4	U
trans-1,2-Dichloroethene	156-60-5	9.2	U	13	U	14	U	10	U	11	U	9.0	U	9.0	U	14	U
cis-1,2-Dichloroethene	156-59-2	30		32		54		46		62		9.0	U	53		73	
Chloroform	67-66-3	0.92	U	1.3	U	1.4	U	1.0	U	1.1	U	0.90	U	0.90	U	1.4	U
Carbon Tetrachloride	56-23-5	0.92	U	1.3	U	1.4	U	1.0	U	1.1	U	0.90	U	0.90	U	1.4	U
1,1,1-Trichloroethane	71-55-6	0.92	U	1.3	U	1.4	U	1.0	U	1.1	U	0.90	U	0.90	U	1.4	U
Trichloroethene	79-01-6	140		140		190		160		190		8.0		140		180	
Tetrachloroethene	127-18-4	0.92	U	1.3	U	1.4	U	1.0	U	1.1	U	0.90	U	0.94		1.4	U

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Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/28/2009 - 01/28/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW16-7		

Depth	CAS #	128.40		130.00		131.90		134.70		136.90		138.40		140.10		142.20	
Sample Name		CDEMDMW16128.40VOC		CDEMDMW16130.00VOC		CDEMDMW16131.90VOC		CDEMDMW16134.70VOC		CDEMDMW16136.90VOC		CDEMDMW16138.40VOC		CDEMDMW16140.10VOC		CDEMDMW16142.20VOC	
Analysis Date		1/28/2009	N	1/28/2009	N	1/28/2009	N	1/29/2009	N	1/29/2009	N	1/29/2009	N	1/29/2009	N	1/29/2009	N
1,1-Dichloroethene	75-35-4	8.1	U	9.2	U	6.5	U	11	U	14	U	8.4	U	14	U	14	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.81	U	0.92	U	0.65	U	1.1	U	1.4	U	0.84	U	1.4	U	1.4	U
trans-1,2-Dichloroethene	156-60-5	8.1	U	9.2	U	6.5	U	11	U	14	U	8.4	U	14	U	14	U
cis-1,2-Dichloroethene	156-59-2	58		40		19		13		22		20		110		56	
Chloroform	67-66-3	0.81	U	0.92	U	0.65	U	1.1	U	1.4	U	0.84	U	1.4	U	1.4	U
Carbon Tetrachloride	56-23-5	0.81	U	0.92	U	0.65	U	1.1	U	1.4	U	0.84	U	1.4	U	1.4	U
1,1,1-Trichloroethane	71-55-6	0.81	U	0.92	U	0.65	U	1.1	U	1.4	U	0.84	U	1.4	U	0.20	J
Trichloroethene	79-01-6	160		130		73		77		110		100		320		170	
Tetrachloroethene	127-18-4	0.84		0.92	U	0.65	U	1.1	U	1.4	U	0.84	U	1.4	U	1.4	U

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Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/29/2009 - 01/29/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg
HOLE ID:	CDEMDMW16-8		

as received

Depth	CAS #	144.30		146.10		148.40		149.70		151.70		155.60		156.20		158.00	
Sample Name		CDEMDMW16144.30VOC		CDEMDMW16146.10VOC		CDEMDMW16148.40VOC		CDEMDMW16149.70VOC		CDEMDMW16151.70VOC		CDEMDMW16155.60VOC		CDEMDMW16156.20VOC		CDEMDMW16158.00VOC	
Analysis Date		1/29/2009	N	1/29/2009	N	1/29/2009	N	1/29/2009	N	1/29/2009	N	1/29/2009	N	1/29/2009	N	1/29/2009	N
1,1-Dichloroethene	75-35-4	17	U	8.5	U	17	U	9.1	U	6.6	U	7.9	U	14	U	8.7	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.7	U	0.85	U	1.7	U	0.91	U	0.66	U	0.79	U	1.4	U	0.87	U
trans-1,2-Dichloroethene	156-60-5	17	U	8.5	U	17	U	9.1	U	6.6	U	7.9	U	14	U	8.7	U
cis-1,2-Dichloroethene	156-59-2	51		47		46		61		48		79		12	J	23	
Chloroform	67-66-3	1.7	U	0.85	U	1.7	U	0.91	U	0.66	U	0.79	U	1.4	U	0.87	U
Carbon Tetrachloride	56-23-5	1.7	U	0.85	U	1.7	U	0.91	U	0.66	U	0.79	U	1.4	U	0.87	U
1,1,1-Trichloroethane	71-55-6	1.7	U	0.85	U	1.7	U	0.91	U	0.66	U	0.21	J	0.68	J	0.87	U
Trichloroethene	79-01-6	150		140		140		130		100		190		40		46	
Tetrachloroethene	127-18-4	1.7	U	0.85	U	1.7	U	0.91	U	0.66	U	0.79	U	1.4	U	0.87	U

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Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/29/2009 - 01/29/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW16-9		

Depth	CAS #	160.40		161.70		164.30		166.30		167.60		170.30		172.30		174.35	
Sample Name		CDEMDMW16160.40VOC		CDEMDMW16161.70VOC		CDEMDMW16164.30VOC		CDEMDMW16166.30VOC		CDEMDMW16167.60VOC		CDEMDMW16170.30VOC		CDEMDMW16172.30VOC		CDEMDMW16174.35VOC	
Analysis Date		1/29/2009	N	1/29/2009	N	1/29/2009	N	1/29/2009	N	1/29/2009	N	1/30/2009	N	1/30/2009	N	1/30/2009	N
1,1-Dichloroethene	75-35-4	11	U	5.2	U	7.8	U	5.7	U	8.3	U	8.8	U	8.3	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.1	U	0.52	U	0.78	U	0.57	U	0.83	U	0.88	U	0.83	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	11	U	5.2	U	7.8	U	5.7	U	8.3	U	8.8	U	8.3	U	11	U
cis-1,2-Dichloroethene	156-59-2	42		26		11		69		27		8.8	U	2.9	J	52	
Chloroform	67-66-3	1.1	U	0.52	U	0.78	U	0.57	U	0.83	U	0.88	U	0.83	U	1.1	U
Carbon Tetrachloride	56-23-5	1.1	U	0.52	U	0.78	U	0.57	U	0.83	U	0.88	U	0.83	U	1.1	U
1,1,1-Trichloroethane	71-55-6	0.31	J	0.52	U	0.16	J	0.57	U	0.37	J	0.13	J	0.83	U	1.1	U
Trichloroethene	79-01-6	77		41		30		120		48		14		37		94	
Tetrachloroethene	127-18-4	1.1	U	0.52	U	0.78	U	0.57	U	0.83	U	0.88	U	0.83	U	1.1	U

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Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/29/2009 - 01/30/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW16-10		

Depth	CAS #	175.90		177.90		179.70		182.50		184.30		186.00		187.80		190.10	
Sample Name		CDEMDMW16175.90VOC		CDEMDMW16177.90VOC		CDEMDMW16179.70VOC		CDEMDMW16182.50VOC		CDEMDMW16184.30VOC		CDEMDMW16186.00VOC		CDEMDMW16187.80VOC		cdemdmw16190.10voc	
Analysis Date		1/30/2009	N	1/30/2009	N	1/30/2009	N	1/30/2009	N	1/30/2009	N	1/30/2009	N	1/30/2009	N	1/30/2009	N
1,1-Dichloroethene	75-35-4	10	U	9.8	U	11	U	7.8	U	13	U	11	U	11	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroetl	76-13-1	1.0	U	0.98	U	1.1	U	0.78	U	1.3	U	1.1	U	1.1	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	10	U	9.8	U	11	U	7.8	U	13	U	11	U	11	U	11	U
cis-1,2-Dichloroethene	156-59-2	110		52		22		7.8	U	13	U	11	U	15		5.4	J
Chloroform	67-66-3	1.0	U	0.98	U	1.1	U	0.78	U	1.3	U	1.1	U	1.1	U	1.1	U
Carbon Tetrachloride	56-23-5	1.0	U	0.98	U	1.1	U	0.78	U	1.3	U	1.1	U	1.1	U	1.1	U
1,1,1-Trichloroethane	71-55-6	1.0	U	0.98	U	1.1	U	0.78	U	0.43	J	0.25	J	1.1	U	1.1	U
Trichloroethene	79-01-6	130		83		52		20		6.9		13		56		28	
Tetrachloroethene	127-18-4	1.0	U	0.98	U	1.1	U	0.78	U	1.3	U	1.1	U	1.1	U	1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/30/2009 - 01/30/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW16-11		

Depth	CAS #	191.80		194.90		197.10		198.50		200.00		202.10		204.70		206.00	
Sample Name		CDEMDMW16191.80VOC		CDEMDMW16194.90VOC		CDEMDMW16197.10VOC		CDEMDMW16198.50VOC		CDEMDMW16200.00VOC		CDEMDMW16202.10VOC		CDEMDMW16204.70VOC		CDEMDMW16206.00VOC	
Analysis Date		1/30/2009	N	1/30/2009	N	1/30/2009	N	1/30/2009	N	1/30/2009	N	1/30/2009	N	2/2/2009	N	2/2/2009	N
1,1-Dichloroethene	75-35-4	11	U	6.8	U	9.2	U	9.7	U	9.0	U	11	U	8.7	U	10.0	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.1	U	0.68	U	0.92	U	0.97	U	0.90	U	1.1	U	0.87	U	1.00	U
trans-1,2-Dichloroethene	156-60-5	11	U	6.8	U	9.2	U	9.7	U	9.0	U	11	U	8.7	U	10.0	U
cis-1,2-Dichloroethene	156-59-2	28		2.8	J	9.2	U	13		4.2	J	11	U	8.7	U	10.0	U
Chloroform	67-66-3	1.1	U	0.68	U	0.92	U	0.97	U	0.90	U	1.1	U	0.87	U	1.00	U
Carbon Tetrachloride	56-23-5	1.1	U	0.68	U	0.92	U	0.97	U	0.90	U	1.1	U	0.87	U	1.00	U
1,1,1-Trichloroethane	71-55-6	1.1	U	0.14	J	0.27	J	0.17	J	0.90	U	1.1	U	0.87	U	0.14	J
Trichloroethene	79-01-6	60		28		2.4		50		29		1.1	U	13		15	
Tetrachloroethene	127-18-4	1.1	U	0.68	U	0.92	U	0.97	U	0.90	U	1.1	U	0.87	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/30/2009 - 01/30/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg
HOLE ID:	CDEMDMW16-12		

as received

Depth	CAS #	207.30		210.30		212.00		214.30		216.80		217.80		221.35		223.05	
Sample Name		CDEMDMW16207.30VOC		CDEMDMW16210.30VOC		CDEMDMW16212.00VOC		CDEMDMW16214.30VOC		CDEMDMW16216.80VOC		CDEMDMW16217.80VOC		CDEMDMW16221.35VOC		CDEMDMW16223.05VOC	
Analysis Date		2/2/2009	N	2/2/2009	N	2/2/2009	N	2/2/2009	N	2/2/2009	N	2/2/2009	N	2/2/2009	N	2/2/2009	N
1,1-Dichloroethene	75-35-4	9.4	U	4.8	U	12	U	8.7	U	9.3	U	7.8	U	7.0	U	7.3	U
1,1,2-Trichloro-1,2,2-trifluoroetl	76-13-1	0.94	U	0.48	U	1.2	U	0.87	U	0.93	U	0.78	U	0.70	U	0.73	U
trans-1,2-Dichloroethene	156-60-5	9.4	U	4.8	U	12	U	8.7	U	9.3	U	7.8	U	7.0	U	7.3	U
cis-1,2-Dichloroethene	156-59-2	9.4	U	4.8	U	12	U	8.7	U	9.3	U	7.8	U	7.0	U	7.3	U
Chloroform	67-66-3	0.94	U	0.48	U	1.2	U	0.87	U	0.93	U	0.78	U	0.70	U	0.73	U
Carbon Tetrachloride	56-23-5	0.94	U	0.48	U	1.2	U	0.87	U	0.93	U	0.78	U	0.70	U	0.73	U
1,1,1-Trichloroethane	71-55-6	0.94	U	0.48	U	1.2	U	0.11	J	0.93	U	0.78	U	0.70	U	0.73	U
Trichloroethene	79-01-6	2.0		0.48	U	8.0		0.87	U	0.93	U	0.78	U	0.70	U	0.73	U
Tetrachloroethene	127-18-4	0.94	U	0.48	U	1.2	U	0.87	U	0.93	U	0.78	U	0.70	U	0.73	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	5/27/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/02/2009 - 02/02/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg
HOLE ID:	CDEMDMW16-14		

as received

Depth	CAS #	241.10		245.40		247.40		251.50	
Sample Name		CDEMDMW16241.10VOC		CDEMDMW16245.40VOC		CDEMDMW16247.40VOC		CDEMDMW16251.50VOC	
Analysis Date		2/2/2009	N	2/2/2009	N	2/2/2009	N	2/3/2009	N
1,1-Dichloroethene	75-35-4	9.2	U	6.8	U	9.6	U	10.0	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.92	U	0.68	U	0.96	U	1.00	U
trans-1,2-Dichloroethene	156-60-5	9.2	U	6.8	U	9.6	U	10.0	U
cis-1,2-Dichloroethene	156-59-2	9.2	U	6.8	U	9.6	U	10.0	U
Chloroform	67-66-3	0.92	U	0.68	U	0.96	U	1.00	U
Carbon Tetrachloride	56-23-5	0.92	U	0.68	U	0.96	U	1.00	U
1,1,1-Trichloroethane	71-55-6	0.92	U	0.68	U	0.96	U	1.00	U
Trichloroethene	79-01-6	0.67	J	2.7		4.2		7.8	
Tetrachloroethene	127-18-4	0.92	U	0.68	U	0.96	U	1.00	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/26/2009 - 02/02/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg
HOLE ID:	CDEMDMW16FD		

as received

Depth	CAS #	000.01		000.02		000.03		000.04		000.05	
Sample Name		CDEMDMW16FD001VOC		CDEMDMW16FD002VOC		CDEMDMW16FD003VOC		CDEMDMW16FD004VOC		CDEMDMW16FD005VOC	
Analysis Date		1/26/2009	FD	1/28/2009	FD	1/29/2009	FD	1/30/2009	FD	2/2/2009	FD
1,1-Dichloroethene	75-35-4	15		22	U	8.5	U	180	U	8.9	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.4		2.2	U	0.85	U	18	U	0.89	U
trans-1,2-Dichloroethene	156-60-5	12	U	22	U	8.5	U	180	U	8.9	U
cis-1,2-Dichloroethene	156-59-2	12		22	U	71		130	J	8.9	U
Chloroform	67-66-3	1.2	U	2.2	U	0.85	U	18	U	0.89	U
Carbon Tetrachloride	56-23-5	1.2	U	2.2	U	0.85	U	18	U	0.89	U
1,1,1-Trichloroethane	71-55-6	0.14	J	2.2	U	0.85	U	5.5	J	0.89	U
Trichloroethene	79-01-6	200		60		140		560		3.2	
Tetrachloroethene	127-18-4	1.2	U	2.2	U	0.85	U	18	U	0.89	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/20/2009 - 01/28/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Methanol Extract	**Results Given as:**	ug/kg
HOLE ID:	CDEMDMW16MB		

as received

Depth	CAS #	000.02		000.03		000.04	
Sample Name		CDEMDMW16MB 002VOC		CDEMDMW16MB 003VOC		CDEMDMW16MB 004VOC	
Analysis Date		1/23/2009	N	1/23/2009	N	1/28/2009	N
1,1-Dichloroethene	75-35-4	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	10	U	10	U	10	U
cis-1,2-Dichloroethene	156-59-2	10	U	10	U	10	U
Chloroform	67-66-3	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	56-23-5	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	U	1.0	U
Trichloroethene	79-01-6	1.0	U	1.0	U	1.0	U
Tetrachloroethene	127-18-4	1.0	U	1.0	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	01/30/2009 - 01/30/2009
Project ID:	CDE	**Date(s) Analyzed:**	01/22/2009 - 02/03/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Methanol Extract	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW16EB		

Depth	CAS #	000.01		000.02		000.03		000.04		000.05	
Sample Name		CDEMDMW16EB0 01VOC		CDEMDMW16EB0 02VOC		CDEMDMW16EB0 03VOC		CDEMDMW16EB0 04VOC		CDEMDMW16EB0 05VOC	
Analysis Date		1/23/2009	N	1/28/2009	EB	1/29/2009	N	1/30/2009	EB	2/3/2009	EB
1,1-Dichloroethene	75-35-4	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	156-59-2	10	U	10	U	10	U	10	U	10	U
Chloroform	67-66-3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	56-23-5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	U	1.0	U	0.34	J	0.37	J
Trichloroethene	79-01-6	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	127-18-4	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/09/2009 - 02/10/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-1		

Depth	CAS #	029.10		030.10		030.85		031.48		035.10		037.50		038.70		039.70	
Sample Name		CDEMDMW200 29.10VOC		CDEMDMW200 30.10VOC		CDEMDMW200 30.85VOC		CDEMDMW200 31.48VOC		CDEMDMW200 35.10VOC		CDEMDMW200 37.50VOC		CDEMDMW200 38.70VOC		CDEMDMW200 39.70VOC	
Analysis Date		2/10/2009	N	2/10/2009	N	2/10/2009	N	2/10/2009	N	2/10/2009	N	2/10/2009	N	2/10/2009	N	2/10/2009	N
1,1-Dichloroethene	75-35-4	9.9	U	9.9	U	8.9	U	7.6	U	9.2	U	10.0	U	8.4	U	8.3	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.99	U	0.99	U	0.89	U	0.76	U	0.92	U	1.00	U	0.84	U	0.83	U
trans-1,2-Dichloroethene	156-60-5	9.9	U	9.9	U	8.9	U	7.6	U	9.2	U	10.0	U	8.4	U	8.3	U
cis-1,2-Dichloroethene	156-59-2	9.9	U	9.9	U	8.9	U	7.6	U	9.2	U	10.0	U	8.4	U	8.3	U
Chloroform	67-66-3	0.99	U	0.99	U	0.89	U	0.76	U	0.92	U	1.00	U	0.84	U	0.83	U
Carbon Tetrachloride	56-23-5	0.99	U	0.99	U	0.89	U	0.76	U	0.92	U	1.00	U	0.84	U	0.83	U
1,1,1-Trichloroethane	71-55-6	0.99	U	0.99	U	0.89	U	0.76	U	0.92	U	1.00	U	0.84	U	0.83	U
Trichloroethene	79-01-6	0.99	U	0.99	U	0.89	U	0.76	U	0.92	U	1.00	U	0.84	U	1.9	B
Tetrachloroethene	127-18-4	0.99	U	0.99	U	0.89	U	0.76	U	0.92	U	1.00	U	0.84	U	0.83	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/09/2009 - 02/10/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-1		

Depth	CAS #	040.40		041.90		043.80		045.20		046.20		049.20		049.70		050.70	
Sample Name		CDEMDMW200 40.40VOC		CDEMDMW200 41.90VOC		CDEMDMW200 43.80VOC		CDEMDMW200 45.20VOC		CDEMDMW200 46.20VOC		CDEMDMW200 49.20VOC		CDEMDMW200 49.70VOC		CDEMDMW200 50.70VOC	
Analysis Date		2/10/2009	N	2/10/2009	N	2/10/2009	N	2/10/2009	N	2/10/2009	N	2/10/2009	N	2/10/2009	N	2/11/2009	N
1,1-Dichloroethene	75-35-4	9.4	U	9.3	U	9.8	U	9.2	U	9.3	U	12	U	9.9	U	8.2	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.94	U	0.93	U	0.98	U	0.92	U	0.93	U	1.2	U	0.99	U	0.82	U
trans-1,2-Dichloroethene	156-60-5	9.4	U	9.3	U	9.8	U	9.2	U	9.3	U	12	U	9.9	U	8.2	U
cis-1,2-Dichloroethene	156-59-2	9.4	U	9.3	U	9.8	U	9.2	U	9.3	U	12	U	9.9	U	8.2	U
Chloroform	67-66-3	0.94	U	0.93	U	0.98	U	0.92	U	0.93	U	1.2	U	0.99	U	0.82	U
Carbon Tetrachloride	56-23-5	0.94	U	0.93	U	0.98	U	0.92	U	0.93	U	1.2	U	0.99	U	0.82	U
1,1,1-Trichloroethane	71-55-6	0.94	U	0.93	U	0.98	U	0.92	U	0.93	U	1.2	U	0.99	U	0.82	U
Trichloroethene	79-01-6	3.9	B	2.9	B	2.3	B	3.0	B	5.1	B	1.3	B	2.9	B	0.82	U
Tetrachloroethene	127-18-4	0.94	U	0.93	U	0.98	U	0.92	U	0.93	U	1.2	U	0.99	U	0.82	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/10/2009 - 02/10/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-2		

Depth	CAS #	059.35		059.90		062.25		063.90		065.60		066.70		069.20		070.40	
Sample Name		CDEMDMW200 59.35VOC		CDEMDMW200 59.90VOC		CDEMDMW200 62.25VOC		CDEMDMW200 63.90VOC		CDEMDMW200 65.60VOC		CDEMDMW200 66.70VOC		CDEMDMW200 69.20VOC		CDEMDMW200 70.40VOC	
Analysis Date		2/11/2009	N	2/11/2009	N	2/11/2009	N	2/11/2009	N	2/11/2009	N	2/11/2009	N	2/11/2009	N	2/11/2009	N
1,1-Dichloroethene	75-35-4	8.1	U	11	U	7.2	U	8.9	U	12	U	8.0	U	12	U	9.2	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.81	U	1.1	U	0.72	U	0.89	U	1.2	U	0.80	U	1.2	U	0.92	U
trans-1,2-Dichloroethene	156-60-5	8.1	U	11	U	7.2	U	8.9	U	12	U	8.0	U	12	U	9.2	U
cis-1,2-Dichloroethene	156-59-2	8.1	U	11	U	7.2	U	8.9	U	12	U	8.0	U	12	U	9.2	U
Chloroform	67-66-3	0.81	U	1.1	U	0.72	U	0.89	U	1.2	U	0.80	U	1.2	U	0.92	U
Carbon Tetrachloride	56-23-5	0.81	U	1.1	U	0.72	U	0.89	U	1.2	U	0.80	U	1.2	U	0.92	U
1,1,1-Trichloroethane	71-55-6	0.81	U	1.1	U	0.72	U	0.89	U	1.2	U	0.80	U	1.2	U	0.92	U
Trichloroethene	79-01-6	0.90	B	1.1	U	1.6	B	0.89	U	1.2	U	0.80	U	1.2	U	0.92	U
Tetrachloroethene	127-18-4	0.81	U	1.1	U	0.72	U	0.89	U	1.2	U	0.80	U	1.2	U	0.92	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/10/2009 - 02/10/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-2		

Depth	CAS #	070.80		072.15		074.55		075.30		076.85		080.50		084.20		085.30	
Sample Name		CDEMDMW200 70.80VOC		CDEMDMW200 72.15VOC		CDEMDMW200 74.55VOC		CDEMDMW200 75.30VOC		CDEMDMW200 76.85VOC		CDEMDMW200 80.50VOC		CDEMDMW200 84.20VOC		CDEMDMW200 85.30VOC	
Analysis Date		2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N
1,1-Dichloroethene	75-35-4	9.0	U	11	U	8.1	U	9.2	U	8.2	U	6.9	U	10	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.90	U	1.1	U	0.81	U	0.92	U	0.82	U	0.69	U	1.0	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	9.0	U	11	U	8.1	U	9.2	U	8.2	U	6.9	U	10	U	11	U
cis-1,2-Dichloroethene	156-59-2	4.4	J	3.1	J	2.6	J	9.2	U	2.5	J	6.9	U	10	U	11	U
Chloroform	67-66-3	0.90	U	1.1	U	0.81	U	0.92	U	0.82	U	0.69	U	1.0	U	1.1	U
Carbon Tetrachloride	56-23-5	0.90	U	1.1	U	0.81	U	0.92	U	0.82	U	0.69	U	1.0	U	1.1	U
1,1,1-Trichloroethane	71-55-6	0.90	U	1.1	U	0.81	U	0.92	U	0.82	U	0.69	U	1.0	U	1.1	U
Trichloroethene	79-01-6	3.4	B	2.2	B	8.4	B	3.6	B	7.7	B	0.69	U	7.0	B	1.1	U
Tetrachloroethene	127-18-4	0.90	U	1.1	U	0.81	U	0.92	U	0.82	U	0.69	U	1.0	U	1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/10/2009 - 02/10/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-2		

Depth	CAS #	086.50		088.90		090.20		090.75	
Sample Name		CDEMDMW200 86.50VOC		CDEMDMW200 88.90VOC		CDEMDMW200 90.20VOC		CDEMDMW200 90.75VOC	
Analysis Date		2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N
1,1-Dichloroethene	75-35-4	10.0	U	10	U	10	U	12	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.00	U	1.0	U	1.0	U	1.2	U
trans-1,2-Dichloroethene	156-60-5	10.0	U	10	U	10	U	12	U
cis-1,2-Dichloroethene	156-59-2	10.0	U	10	U	10	U	12	U
Chloroform	67-66-3	1.00	U	1.0	U	1.0	U	1.2	U
Carbon Tetrachloride	56-23-5	1.00	U	1.0	U	1.0	U	1.2	U
1,1,1-Trichloroethane	71-55-6	1.00	U	1.0	U	1.0	U	1.2	U
Trichloroethene	79-01-6	7.3	B	18		8.7		6.4	
Tetrachloroethene	127-18-4	1.00	U	1.0	U	1.0	U	1.2	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/11/2009 - 02/11/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-3		

Depth	CAS #	091.80		094.25		095.75		097.00		099.10		099.80		100.45		101.80	
Sample Name		CDEMDMW200 91.80VOC		CDEMDMW200 94.25VOC		CDEMDMW200 95.70VOC		CDEMDMW200 97.00VOC		CDEMDMW200 99.10VOC		CDEMDMW200 99.80VOC		CDEMDMW201 00.45VOC		CDEMDMW201 01.80VOC	
Analysis Date		2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N
1,1-Dichloroethene	75-35-4	9.0	U	9.7	U	8.8	U	6.4	U	9.6	U	9.2	U	10	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.90	U	0.97	U	0.88	U	0.64	U	0.96	U	0.92	U	1.0	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	9.0	U	9.7	U	8.8	U	6.4	U	9.6	U	9.2	U	10	U	11	U
cis-1,2-Dichloroethene	156-59-2	9.0	U	0.52	J	8.8	U	6.4	U	9.6	U	9.2	U	10	U	11	U
Chloroform	67-66-3	0.90	U	0.97	U	0.88	U	0.64	U	0.96	U	0.92	U	1.0	U	1.1	U
Carbon Tetrachloride	56-23-5	0.90	U	0.97	U	0.88	U	0.64	U	0.96	U	0.92	U	1.0	U	1.1	U
1,1,1-Trichloroethane	71-55-6	0.90	U	0.97	U	0.88	U	0.64	U	0.96	U	0.92	U	1.0	U	1.1	U
Trichloroethene	79-01-6	0.95		7.1		7.6		4.4		4.6		0.92	U	1.4		6.7	
Tetrachloroethene	127-18-4	0.90	U	0.97	U	0.88	U	0.64	U	0.96	U	0.92	U	1.0	U	1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/11/2009 - 02/11/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-3		

Depth	CAS #	104.70		105.85		106.45		109.40		110.65		112.20		113.80		115.50	
Sample Name		CDEMDMW201 04.70VOC		CDEMDMW201 05.85VOC		CDEMDMW201 06.45VOC		CDEMDMW201 09.40VOC		CDEMDMW201 10.65.VOC		CDEMDMW201 12.20.VOC		CDEMDMW201 13.80VOC		CDEMDMW201 15.50VOC	
Analysis Date		2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N
1,1-Dichloroethene	75-35-4	9.9	U	7.9	U	9.5	U	8.6	U	7.6	U	7.5	U	8.8	U	8.4	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.99	U	0.79	U	0.95	U	0.86	U	0.76	U	0.75	U	0.88	U	0.84	U
trans-1,2-Dichloroethene	156-60-5	9.9	U	7.9	U	9.5	U	8.6	U	7.6	U	7.5	U	8.8	U	8.4	U
cis-1,2-Dichloroethene	156-59-2	9.9	U	7.9	U	9.5	U	8.6	U	7.6	U	7.5	U	8.8	U	8.4	U
Chloroform	67-66-3	0.99	U	0.79	U	0.95	U	0.86	U	0.76	U	0.75	U	0.88	U	0.84	U
Carbon Tetrachloride	56-23-5	0.99	U	0.79	U	0.95	U	0.86	U	0.76	U	0.75	U	0.88	U	0.84	U
1,1,1-Trichloroethane	71-55-6	0.99	U	0.79	U	0.95	U	0.86	U	0.76	U	0.75	U	0.88	U	0.84	U
Trichloroethene	79-01-6	6.5		6.9		1.1		3.8		3.7		3.0		4.2		3.3	
Tetrachloroethene	127-18-4	0.99	U	0.79	U	0.95	U	0.86	U	0.76	U	0.75	U	0.88	U	0.84	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/11/2009 - 02/11/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-3		

Depth	CAS #	116.80		118.50		120.00		120.70	
Sample Name		CDEMDMW201 16.80VOC		CDEMDMW201 18.50VOC		CDEMDMW201 20.00VOC		CDEMDMW201 20.70VOC	
Analysis Date		2/12/2009	N	2/12/2009	N	2/12/2009	N	2/12/2009	N
1,1-Dichloroethene	75-35-4	11	U	14	U	8.9	U	14	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.1	U	1.4	U	0.89	U	1.4	U
trans-1,2-Dichloroethene	156-60-5	11	U	14	U	8.9	U	14	U
cis-1,2-Dichloroethene	156-59-2	11	U	14	U	8.9	U	14	U
Chloroform	67-66-3	1.1	U	1.4	U	0.89	U	1.4	U
Carbon Tetrachloride	56-23-5	1.1	U	1.4	U	0.89	U	1.4	U
1,1,1-Trichloroethane	71-55-6	1.1	U	1.4	U	0.89	U	1.4	U
Trichloroethene	79-01-6	3.7		1.4	U	3.2		1.6	
Tetrachloroethene	127-18-4	1.1	U	1.4	U	0.89	U	1.4	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/11/2009 - 02/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-4		

Depth	CAS #	121.35		124.10		125.80		127.15		129.30		130.45		132.50		134.90	
Sample Name		CDEMDMW201 21.35VOC		CDEMDMW201 24.10VOC		CDEMDMW201 25.80VOC		CDEMDMW201 27.15VOC		CDEMDMW201 29.30VOC		CDEMDMW201 30.45VOC		CDEMDMW201 32.50VOC		CDEMDMW201 34.90VOC	
Analysis Date		2/12/2009	N	2/12/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N
1,1-Dichloroethene	75-35-4	9.0	U	10	U	9.3	U	10	U	12	U	5.9	U	7.8	U	10.0	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.90	U	1.0	U	0.93	U	1.0	U	1.2	U	0.59	U	0.78	U	1.00	U
trans-1,2-Dichloroethene	156-60-5	9.0	U	10	U	9.3	U	10	U	12	U	5.9	U	7.8	U	10.0	U
cis-1,2-Dichloroethene	156-59-2	9.0	U	10	U	9.3	U	10	U	12	U	5.9	U	7.8	U	10.0	U
Chloroform	67-66-3	0.90	U	1.0	U	0.93	U	1.0	U	1.2	U	0.59	U	0.78	U	1.00	U
Carbon Tetrachloride	56-23-5	0.90	U	1.0	U	0.93	U	1.0	U	1.2	U	0.59	U	0.78	U	1.00	U
1,1,1-Trichloroethane	71-55-6	0.90	U	1.0	U	0.93	U	1.0	U	1.2	U	0.59	U	0.78	U	1.00	U
Trichloroethene	79-01-6	2.4		1.2		3.4		1.0	U	5.5		6.1		17		1.00	U
Tetrachloroethene	127-18-4	0.90	U	1.0	U	0.93	U	1.0	U	1.2	U	0.59	U	0.78	U	1.00	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/11/2009 - 02/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-4		

Depth	CAS #	136.65		139.40		140.40		142.60		143.00		145.50		147.00		149.30	
Sample Name		CDEMDMW201 36.65VOC		CDEMDMW201 39.40VOC		CDEMDMW201 40.40VOC		CDEMDMW201 42.60VOC		CDEMDMW201 43.00VOC		CDEMDMW201 45.50VOC		CDEMDMW201 47.00VOC		CDEMDMW201 49.30VOC	
Analysis Date		2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N
1,1-Dichloroethene	75-35-4	6.4	U	13	U	9.9	U	8.3	U	6.8	U	8.0	U	9.9	U	8.6	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.64	U	1.3	U	0.99	U	0.83	U	0.68	U	0.80	U	0.99	U	0.86	U
trans-1,2-Dichloroethene	156-60-5	6.4	U	13	U	9.9	U	8.3	U	6.8	U	8.0	U	9.9	U	8.6	U
cis-1,2-Dichloroethene	156-59-2	6.4	U	13	U	9.9	U	8.3	U	6.8	U	8.0	U	9.9	U	8.6	U
Chloroform	67-66-3	0.64	U	1.3	U	0.99	U	0.83	U	0.70		0.80	U	0.99	U	0.86	U
Carbon Tetrachloride	56-23-5	0.64	U	1.3	U	0.99	U	0.83	U	0.68	U	0.80	U	0.99	U	0.86	U
1,1,1-Trichloroethane	71-55-6	0.64	U	1.3	U	0.99	U	0.83	U	0.68	U	0.80	U	0.99	U	0.86	U
Trichloroethene	79-01-6	2.2		1.3	U	2.2		2.3		1.1		1.8		1.1		5.4	
Tetrachloroethene	127-18-4	0.64	U	1.3	U	0.99	U	0.83	U	0.68	U	0.80	U	0.99	U	0.86	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/11/2009 - 02/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-4		

Depth	CAS #	136.65		139.40		140.40		142.60		143.00		145.50		147.00		149.30	
Sample Name		CDEMDMW201 36.65VOC		CDEMDMW201 39.40VOC		CDEMDMW201 40.40VOC		CDEMDMW201 42.60VOC		CDEMDMW201 43.00VOC		CDEMDMW201 45.50VOC		CDEMDMW201 47.00VOC		CDEMDMW201 49.30VOC	
Analysis Date		2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N
1,1-Dichloroethene	75-35-4	6.4	U	13	U	9.9	U	8.3	U	6.8	U	8.0	U	9.9	U	8.6	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.64	U	1.3	U	0.99	U	0.83	U	0.68	U	0.80	U	0.99	U	0.86	U
trans-1,2-Dichloroethene	156-60-5	6.4	U	13	U	9.9	U	8.3	U	6.8	U	8.0	U	9.9	U	8.6	U
cis-1,2-Dichloroethene	156-59-2	6.4	U	13	U	9.9	U	8.3	U	6.8	U	8.0	U	9.9	U	8.6	U
Chloroform	67-66-3	0.64	U	1.3	U	0.99	U	0.83	U	0.70		0.80	U	0.99	U	0.86	U
Carbon Tetrachloride	56-23-5	0.64	U	1.3	U	0.99	U	0.83	U	0.68	U	0.80	U	0.99	U	0.86	U
1,1,1-Trichloroethane	71-55-6	0.64	U	1.3	U	0.99	U	0.83	U	0.68	U	0.80	U	0.99	U	0.86	U
Trichloroethene	79-01-6	2.2		1.3	U	2.2		2.3		1.1		1.8		1.1		5.4	
Tetrachloroethene	127-18-4	0.64	U	1.3	U	0.99	U	0.83	U	0.68	U	0.80	U	0.99	U	0.86	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/11/2009 - 02/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-4		

Depth	CAS #	150.10		152.00		154.30		156.15		157.2		159.5	
Sample Name		CDEMDMW201 50.10VOC		CDEMDMW201 52.00VOC		CDEMDMW201 54.30VOC		CDEMDMW201 56.15VOC		CDEMDMW201 57.20VOC		CDEMDMW201 59.50VOC	
Analysis Date		2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N
1,1-Dichloroethene	75-35-4	8.1	U	9.0	U	8.5	U	12	U	9.2	U	8.8	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.81	U	0.90	U	0.85	U	1.2	U	0.92	U	0.88	U
trans-1,2-Dichloroethene	156-60-5	8.1	U	9.0	U	8.5	U	12	U	9.2	U	8.8	U
cis-1,2-Dichloroethene	156-59-2	8.1	U	9.0	U	8.5	U	12	U	9.2	U	8.8	U
Chloroform	67-66-3	0.81	U	0.90	U	0.85	U	1.2	U	0.92	U	0.88	U
Carbon Tetrachloride	56-23-5	0.81	U	0.90	U	0.85	U	1.2	U	0.92	U	0.88	U
1,1,1-Trichloroethane	71-55-6	0.81	U	0.90	U	0.85	U	1.2	U	0.92	U	0.88	U
Trichloroethene	79-01-6	7.7		3.1		1.7		23		6.9		7.7	
Tetrachloroethene	127-18-4	0.81	U	0.90	U	0.85	U	1.2	U	0.92	U	0.88	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/12/2009 - 02/13/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-5		

Depth	CAS #	161.00		162.40		164.50		166.70		168.80		170.40		171.90		174.00	
Sample Name		CDEMDMW201 61.00VOC		CDEMDMW201 62.40VOC		CDEMDMW201 64.50VOC		CDEMDMW201 66.70VOC		CDEMDMW201 68.80VOC		CDEMDMW201 70.40VOC		CDEMDMW201 71.90VOC		CDEMDMW201 74.00VOC	
Analysis Date		2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N
1,1-Dichloroethene	75-35-4	13	U	7.6	U	9.2	U	10	U	8.8	U	9.9	U	9.2	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.3	U	0.76	U	0.92	U	1.0	U	0.88	U	0.99	U	0.92	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	13	U	7.6	U	9.2	U	10	U	8.8	U	9.9	U	9.2	U	11	U
cis-1,2-Dichloroethene	156-59-2	13	U	7.6	U	9.2	U	10	U	8.8	U	9.9	U	9.2	U	11	U
Chloroform	67-66-3	1.3	U	0.76	U	0.92	U	1.0	U	0.88	U	0.99	U	0.92	U	1.1	U
Carbon Tetrachloride	56-23-5	1.3	U	0.76	U	0.92	U	1.0	U	0.88	U	0.99	U	0.92	U	1.1	U
1,1,1-Trichloroethane	71-55-6	1.3	U	0.76	U	0.92	U	1.0	U	0.88	U	0.99	U	0.92	U	1.1	U
Trichloroethene	79-01-6	6.7		0.76	U	0.92	U	1.0	U	0.88	U	0.99	U	4.5		15	
Tetrachloroethene	127-18-4	1.3	U	0.76	U	0.92	U	1.0	U	0.88	U	0.99	U	0.92	U	1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/12/2009 - 02/13/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-5		

Depth	CAS #	176.00		178.40		180.70		182.40		184.65		187.60		188.70		190.60	
Sample Name		CDEMDMW201 76.00VOC		CDEMDMW201 78.40VOC		CDEMDMW201 80.70VOC		CDEMDMW201 82.40VOC		CDEMDMW201 84.65VOC		CDEMDMW201 87.60VOC		CDEMDMW201 88.70VOC		CDEMDMW201 90.60VOC	
Analysis Date		2/13/2009	N	2/13/2009	N	2/13/2009	N	2/13/2009	N	2/14/2009	N	2/14/2009	N	2/18/2009	N	2/18/2009	N
1,1-Dichloroethene	75-35-4	8.2	U	12	U	6.7	U	11	U	6.6	U	9.5	U	13	U	7.0	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.82	U	1.2	U	0.67	U	1.1	U	0.66	U	0.95	U	1.3	U	0.70	U
trans-1,2-Dichloroethene	156-60-5	8.2	U	12	U	6.7	U	11	U	6.6	U	9.5	U	13	U	7.0	U
cis-1,2-Dichloroethene	156-59-2	8.2	U	12	U	6.7	U	11	U	6.6	U	9.5	U	13	U	7.0	U
Chloroform	67-66-3	0.82	U	1.2	U	0.67	U	1.1	U	0.66	U	0.95	U	1.3	U	0.70	U
Carbon Tetrachloride	56-23-5	0.82	U	1.2	U	0.67	U	1.1	U	0.66	U	0.95	U	1.3	U	0.70	U
1,1,1-Trichloroethane	71-55-6	0.82	U	1.2	U	0.67	U	1.1	U	0.66	U	0.95	U	1.3	U	0.70	U
Trichloroethene	79-01-6	4.1		8.7		5.7		3.5		6.5		6.6		4.8		2.6	
Tetrachloroethene	127-18-4	0.82	U	1.2	U	0.67	U	1.1	U	0.66	U	0.95	U	1.3	U	0.70	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/12/2009 - 02/13/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-5		

Depth	CAS #	192.30		194.80		197.10		198.85		200.5		202.15		204.9		206.5	
Sample Name		CDEMDMW201 92.30VOC		CDEMDMW201 94.80VOC		CDEMDMW201 97.10VOC		CDEMDMW201 98.85VOC		CDEMDMW202 00.50VOC		CDEMDMW202 02.15VOC		CDEMDMW202 04.90VOC		CDEMDMW202 06.50VOC	
Analysis Date		2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N
1,1-Dichloroethene	75-35-4	11	U	8.7	U	10	U	11	U	12	U	7.1	U	13	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.1	U	0.87	U	1.0	U	1.1	U	1.2	U	0.71	U	1.3	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	11	U	8.7	U	10	U	11	U	12	U	7.1	U	13	U	10	U
cis-1,2-Dichloroethene	156-59-2	11	U	8.7	U	10	U	11	U	12	U	7.1	U	13	U	10	U
Chloroform	67-66-3	1.1	U	0.87	U	1.0	U	1.1	U	1.2	U	0.71	U	1.3	U	1.0	U
Carbon Tetrachloride	56-23-5	1.1	U	0.87	U	1.0	U	1.1	U	1.2	U	0.71	U	1.3	U	1.0	U
1,1,1-Trichloroethane	71-55-6	1.1	U	0.87	U	1.0	U	1.1	U	1.2	U	0.71	U	1.3	U	1.0	U
Trichloroethene	79-01-6	6.1		2.8		1.3		5.6		4.8		5.1		5.3		12	
Tetrachloroethene	127-18-4	1.1	U	0.87	U	1.0	U	1.1	U	1.2	U	0.71	U	1.3	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/12/2009 - 02/13/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-5		

Depth	CAS #	209.3		210.55		211.8	
Sample Name		CDEMDMW202 09.30VOC		CDEMDMW202 10.55VOC		CDEMDMW202 11.80VOC	
Analysis Date		2/18/2009	N	2/18/2009	N	2/18/2009	N
1,1-Dichloroethene	75-35-4	11	U	12	U	8.9	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.1	U	1.2	U	0.89	U
trans-1,2-Dichloroethene	156-60-5	11	U	12	U	8.9	U
cis-1,2-Dichloroethene	156-59-2	11	U	12	U	8.9	U
Chloroform	67-66-3	1.1	U	1.2	U	0.89	U
Carbon Tetrachloride	56-23-5	1.1	U	1.2	U	0.89	U
1,1,1-Trichloroethane	71-55-6	1.1	U	1.2	U	0.89	U
Trichloroethene	79-01-6	5.4		6.1		1.1	
Tetrachloroethene	127-18-4	1.1	U	1.2	U	0.89	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/13/2009 - 02/16/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-6		

Depth	CAS #	214.55		217.20		219.70		221.55		222.30		224.80		227.30		228.80	
Sample Name		CDEMDMW202 14.55VOC		CDEMDMW202 17.20VOC		CDEMDMW202 19.70VOC		CDEMDMW202 21.55VOC		CDEMDMW202 22.30VOC		CDEMDMW202 24.80VOC		CDEMDMW202 27.30VOC		CDEMDMW202 28.80VOC	
Analysis Date		2/18/2009	N	2/18/2009	N	2/18/2009	N	2/17/2009	N	2/17/2009	N	2/16/2009	N	2/16/2009	N	2/16/2009	N
1,1-Dichloroethene	75-35-4	7.5	U	7.4	U	8.1	U	8.3	U	12	U	10	U	11	U	7.2	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.75	U	0.74	U	0.81	U	0.83	U	1.2	U	1.0	U	1.1	U	0.72	U
trans-1,2-Dichloroethene	156-60-5	7.5	U	7.4	U	8.1	U	8.3	U	12	U	10	U	11	U	7.2	U
cis-1,2-Dichloroethene	156-59-2	7.5	U	7.4	U	8.1	U	8.3	U	12	U	10	U	11	U	7.2	U
Chloroform	67-66-3	0.75	U	0.74	U	0.81	U	0.83	U	1.2	U	1.0	U	1.1	U	0.72	U
Carbon Tetrachloride	56-23-5	0.75	U	0.74	U	0.81	U	0.83	U	1.2	U	1.0	U	1.1	U	0.72	U
1,1,1-Trichloroethane	71-55-6	0.75	U	0.74	U	0.81	U	0.83	U	1.2	U	1.0	U	1.1	U	0.72	U
Trichloroethene	79-01-6	1.7		1.0		1.5		4.1		2.9		9.4		5.6		5.5	
Tetrachloroethene	127-18-4	0.75	U	0.74	U	0.81	U	0.83	U	1.2	U	1.0	U	1.1	U	0.72	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/13/2009 - 02/16/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-6		

Depth	CAS #	230.10		231.40		234.00		235.40		239.20		241.00		242.20		244.60	
Sample Name		CDEMDMW202 30.10VOC		CDEMDMW202 31.40VOC		CDEMDMW202 34.00VOC		CDEMDMW202 35.40VOC		CDEMDMW202 39.20VOC		CDEMDMW202 41.00VOC		CDEMDMW202 42.20VOC		CDEMDMW202 44.60VOC	
Analysis Date		2/16/2009	N	2/16/2009	N	2/16/2009	N	2/16/2009	N	2/17/2009	N	2/17/2009	N	2/17/2009	N	2/17/2009	N
1,1-Dichloroethene	75-35-4	12	U	9.7	U	8.4	U	9.3	U	8.0	U	8.6	U	7.8	U	7.3	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.2	U	0.97	U	0.84	U	0.93	U	0.80	U	0.86	U	0.78	U	0.73	U
trans-1,2-Dichloroethene	156-60-5	12	U	9.7	U	8.4	U	9.3	U	8.0	U	8.6	U	7.8	U	7.3	U
cis-1,2-Dichloroethene	156-59-2	12	U	9.7	U	8.4	U	9.3	U	8.0	U	8.6	U	7.8	U	7.3	U
Chloroform	67-66-3	1.2	U	0.97	U	0.84	U	0.93	U	0.80	U	0.86	U	0.78	U	0.73	U
Carbon Tetrachloride	56-23-5	1.2	U	0.97	U	0.84	U	0.93	U	0.80	U	0.86	U	0.78	U	0.73	U
1,1,1-Trichloroethane	71-55-6	1.2	U	0.97	U	0.84	U	0.93	U	0.80	U	0.86	U	0.78	U	0.73	U
Trichloroethene	79-01-6	6.8		7.2		13		12		1.0		0.86	U	8.8		23	
Tetrachloroethene	127-18-4	1.2	U	0.97	U	0.84	U	0.93	U	0.80	U	0.86	U	0.78	U	0.73	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/13/2009 - 02/16/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-6		

Depth	CAS #	247.10		248.90		250.10		252.00	
Sample Name		CDEMDMW202 47.10VOC		CDEMDMW202 48.90VOC		CDEMDMW202 50.10VOC		CDEMDMW202 52.00VOC	
Analysis Date		2/17/2009	N	2/17/2009	N	2/17/2009	N	2/17/2009	N
1,1-Dichloroethene	75-35-4	9.8	U	14	U	14	U	6.1	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.98	U	1.4	U	1.4	U	0.61	U
trans-1,2-Dichloroethene	156-60-5	9.8	U	14	U	14	U	6.1	U
cis-1,2-Dichloroethene	156-59-2	9.8	U	14	U	14	U	6.1	U
Chloroform	67-66-3	0.98	U	1.4	U	1.4	U	0.61	U
Carbon Tetrachloride	56-23-5	0.98	U	1.4	U	1.4	U	0.61	U
1,1,1-Trichloroethane	71-55-6	0.98	U	1.4	U	1.4	U	0.61	U
Trichloroethene	79-01-6	0.98	U	1.4	U	1.4	U	0.61	U
Tetrachloroethene	127-18-4	0.98	U	1.4	U	1.4	U	0.61	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/17/2009 - 02/17/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-7		

Depth	CAS #	253.30		254.40		255.60		257.00		260.10		261.90		263.60		265.20	
Sample Name		CDEMDMW202 53.30VOC		CDEMDMW202 54.40VOC		CDEMDMW202 55.60VOC		CDEMDMW202 57.00VOC		CDEMDMW202 60.10VOC		CDEMDMW202 61.90VOC		CDEMDMW202 63.60VOC		CDEMDMW202 65.20VOC	
Analysis Date		2/17/2009	N	2/17/2009	N	2/17/2009	N	2/17/2009	N	2/17/2009	N	2/17/2009	N	2/17/2009	N	2/17/2009	N
1,1-Dichloroethene	75-35-4	12	U	11	U	7.9	U	8.8	U	11	U	8.4	U	13	U	9.6	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.2	U	1.1	U	0.79	U	0.88	U	1.1	U	0.84	U	1.3	U	0.96	U
trans-1,2-Dichloroethene	156-60-5	12	U	11	U	7.9	U	8.8	U	11	U	8.4	U	13	U	9.6	U
cis-1,2-Dichloroethene	156-59-2	12	U	11	U	7.9	U	8.8	U	11	U	8.4	U	13	U	9.6	U
Chloroform	67-66-3	1.2	U	1.1	U	0.79	U	0.88	U	1.1	U	0.84	U	1.3	U	0.96	U
Carbon Tetrachloride	56-23-5	1.2	U	1.1	U	0.79	U	0.88	U	1.1	U	0.84	U	1.3	U	0.96	U
1,1,1-Trichloroethane	71-55-6	1.2	U	1.1	U	0.79	U	0.88	U	1.1	U	0.84	U	1.3	U	0.96	U
Trichloroethene	79-01-6	1.2	U	1.1	U	12		10		15		9.1		17		17	
Tetrachloroethene	127-18-4	1.2	U	1.1	U	0.79	U	0.88	U	1.1	U	0.84	U	1.3	U	0.96	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/17/2009 - 02/17/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-7		

Depth	CAS #	266.20		268.70		270.40		272.00		273.60		276.60		279.20		281.50	
Sample Name		CDEMDMW202 66.20VOC		CDEMDMW202 68.70VOC		CDEMDMW202 70.40VOC		CDEMDMW202 72.00VOC		CDEMDMW202 73.60VOC		CDEMDMW202 76.60VOC		CDEMDMW202 79.20VOC		CDEMDMW202 81.50VOC	
Analysis Date		2/17/2009	N	2/17/2009	N	2/17/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N
1,1-Dichloroethene	75-35-4	9.3	U	11	U	11	U	9.3	U	8.4	U	8.7	U	11	U	8.7	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.93	U	1.1	U	1.1	U	0.93	U	0.84	U	0.87	U	1.1	U	0.87	U
trans-1,2-Dichloroethene	156-60-5	9.3	U	11	U	11	U	9.3	U	8.4	U	8.7	U	11	U	8.7	U
cis-1,2-Dichloroethene	156-59-2	9.3	U	11	U	11	U	9.3	U	8.4	U	8.7	U	11	U	8.7	U
Chloroform	67-66-3	0.93	U	1.1	U	1.1	U	0.93	U	0.84	U	0.87	U	1.1	U	0.87	U
Carbon Tetrachloride	56-23-5	0.93	U	1.1	U	1.1	U	0.93	U	0.84	U	0.87	U	1.1	U	0.87	U
1,1,1-Trichloroethane	71-55-6	0.93	U	1.1	U	1.1	U	0.93	U	0.84	U	0.87	U	1.1	U	0.87	U
Trichloroethene	79-01-6	16		17		18		14		21		36		27		23	
Tetrachloroethene	127-18-4	0.93	U	1.1	U	1.1	U	0.93	U	0.84	U	0.87	U	1.1	U	0.87	U

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EB = Equipment Blank
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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/4/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/17/2009 - 02/17/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-7		

Depth	CAS #	282.70		284.40		285.60		288.30	
Sample Name		CDEMDMW202 82.70VOC		CDEMDMW202 84.40VOC		CDEMDMW202 85.60VOC		CDEMDMW202 88.30VOC	
Analysis Date		2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N
1,1-Dichloroethene	75-35-4	10	U	9.6	U	8.7	U	7.6	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.0	U	0.96	U	0.87	U	0.76	U
trans-1,2-Dichloroethene	156-60-5	10	U	9.6	U	8.7	U	7.6	U
cis-1,2-Dichloroethene	156-59-2	10	U	9.6	U	8.7	U	7.6	U
Chloroform	67-66-3	1.0	U	0.96	U	0.87	U	0.76	U
Carbon Tetrachloride	56-23-5	1.0	U	0.96	U	0.87	U	0.76	U
1,1,1-Trichloroethane	71-55-6	1.0	U	0.96	U	0.87	U	0.76	U
Trichloroethene	79-01-6	32		22		33		23	
Tetrachloroethene	127-18-4	1.0	U	0.96	U	0.87	U	0.76	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/18/2009 - 02/18/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-8		

Depth	CAS #	290.40		291.80		295.50		297.60		298.10		301.30		303.20		305.20	
Sample Name		CDEMDMW202 90.40VOC		CDEMDMW202 91.80VOC		CDEMDMW202 95.50VOC		CDEMDMW202 97.60VOC		CDEMDMW202 98.10VOC		CDEMDMW203 01.30VOC		CDEMDMW203 03.20VOC		CDEMDMW203 05.20VOC	
Analysis Date		2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N	2/18/2009	N
1,1-Dichloroethene	75-35-4	10	U	9.2	U	10	U	11	U	8.8	U	7.9	U	12	U	12	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.0	U	0.92	U	1.0	U	1.1	U	0.88	U	0.79	U	1.2	U	1.2	U
trans-1,2-Dichloroethene	156-60-5	10	U	9.2	U	10	U	11	U	8.8	U	7.9	U	12	U	12	U
cis-1,2-Dichloroethene	156-59-2	10	U	9.2	U	10	U	11	U	8.8	U	7.9	U	12	U	12	U
Chloroform	67-66-3	1.0	U	0.92	U	1.0	U	1.1	U	0.88	U	0.79	U	1.2	U	1.2	U
Carbon Tetrachloride	56-23-5	1.0	U	0.92	U	1.0	U	1.1	U	0.88	U	0.79	U	1.2	U	1.2	U
1,1,1-Trichloroethane	71-55-6	1.0	U	0.92	U	1.0	U	1.1	U	0.88	U	0.79	U	1.2	U	1.2	U
Trichloroethene	79-01-6	32		18		37		28		27		21		20		48	
Tetrachloroethene	127-18-4	1.0	U	0.92	U	1.0	U	1.1	U	0.88	U	0.79	U	1.2	U	1.2	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/18/2009 - 02/18/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-8		

Depth	CAS #	306.50		310.60		311.70		314.20		315.60		317.30		319.30		320.80	
Sample Name		CDEMDMW203 06.50VOC		CDEMDMW203 10.60VOC		CDEMDMW203 11.70VOC		CDEMDMW203 14.20VOC		CDEMDMW203 15.60VOC		CDEMDMW203 17.30VOC		CDEMDMW203 19.30VOC		CDEMDMW203 20.80VOC	
Analysis Date		2/18/2009	N	2/18/2009	N	2/19/2009	N	2/19/2009	N	2/19/2009	N	2/19/2009	N	2/19/2009	N	2/19/2009	N
1,1-Dichloroethene	75-35-4	11	U	12	U	9.0	U	10	U	8.4	U	7.7	U	15	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.1	U	1.2	U	0.90	U	1.0	U	0.84	U	0.77	U	1.5	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	11	U	12	U	9.0	U	10	U	8.4	U	7.7	U	15	U	11	U
cis-1,2-Dichloroethene	156-59-2	11	U	12	U	9.0	U	10	U	8.4	U	7.7	U	15	U	11	U
Chloroform	67-66-3	1.1	U	1.2	U	0.90	U	1.0	U	0.84	U	0.77	U	1.5	U	1.1	U
Carbon Tetrachloride	56-23-5	1.1	U	1.2	U	0.90	U	1.0	U	0.84	U	0.77	U	1.5	U	1.1	U
1,1,1-Trichloroethane	71-55-6	1.1	U	1.2	U	0.90	U	1.0	U	0.84	U	0.77	U	1.5	U	1.1	U
Trichloroethene	79-01-6	26		16		24		19		18		15		25		18	
Tetrachloroethene	127-18-4	1.1	U	1.2	U	0.90	U	1.0	U	0.84	U	0.77	U	1.5	U	1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/18/2009 - 02/18/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg
HOLE ID:	CDEMDMW20-8		

Depth	CAS #	323.70		325.80		327.20		329.00	
Sample Name		CDEMDMW203 23.70VOC		CDEMDMW203 25.80VOC		CDEMDMW203 27.20VOC		CDEMDMW203 29.00VOC	
Analysis Date		2/19/2009	N	2/19/2009	N	2/19/2009	N	2/19/2009	N
1,1-Dichloroethene	75-35-4	10	U	9.8	U	8.9	U	8.7	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	1.0	U	0.98	U	0.89	U	0.87	U
trans-1,2-Dichloroethene	156-60-5	10	U	9.8	U	8.9	U	8.7	U
cis-1,2-Dichloroethene	156-59-2	10	U	9.8	U	8.9	U	8.7	U
Chloroform	67-66-3	1.0	U	0.98	U	0.89	U	0.87	U
Carbon Tetrachloride	56-23-5	1.0	U	0.98	U	0.89	U	0.87	U
1,1,1-Trichloroethane	71-55-6	1.0	U	0.98	U	0.89	U	0.87	U
Trichloroethene	79-01-6	21		20		7.6		11	
Tetrachloroethene	127-18-4	1.0	U	0.98	U	0.89	U	0.87	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/19/2009 - 02/19/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-9		

Depth	CAS #	331.90		334.00		335.60		337.10		339.60		341.20		344.20		345.70	
Sample Name		CDEMDMW203 31.90VOC		CDEMDMW203 34.00VOC		CDEMDMW203 35.60VOC		CDEMDMW203 37.10VOC		CDEMDMW203 39.60VOC		CDEMDMW203 41.20VOC		CDEMDMW203 44.20VOC		CDEMDMW203 45.70VOC	
Analysis Date		2/19/2009	N	2/19/2009	N	2/19/2009	N	2/19/2009	N	2/19/2009	N	2/19/2009	N	2/19/2009	N	2/19/2009	N
1,1-Dichloroethene	75-35-4	8.9	U	8.5	U	8.5	U	7.4	U	11	U	10	U	12	U	11	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.89	U	0.85	U	0.85	U	0.74	U	1.1	U	1.0	U	1.2	U	1.1	U
trans-1,2-Dichloroethene	156-60-5	8.9	U	8.5	U	8.5	U	7.4	U	11	U	10	U	12	U	11	U
cis-1,2-Dichloroethene	156-59-2	8.9	U	8.5	U	8.5	U	7.4	U	11	U	10	U	12	U	11	U
Chloroform	67-66-3	0.89	U	0.85	U	0.85	U	0.74	U	1.1	U	1.0	U	2.4		1.1	U
Carbon Tetrachloride	56-23-5	0.89	U	0.85	U	0.85	U	0.74	U	1.1	U	1.0	U	1.2	U	1.1	U
1,1,1-Trichloroethane	71-55-6	0.89	U	0.85	U	0.85	U	0.74	U	1.1	U	1.0	U	1.2	U	1.1	U
Trichloroethene	79-01-6	17		6.6		15		0.95		12		14		11		21	
Tetrachloroethene	127-18-4	0.89	U	0.85	U	0.85	U	0.74	U	1.1	U	1.0	U	1.2	U	1.1	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/19/2009 - 02/19/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-9		

Depth	CAS #	347.5		349.3		351.3		354		355.3		357.00		359.5		361.00	
Sample Name		CDEMDMW203 47.50VOC		CDEMDMW203 49.30VOC		CDEMDMW203 51.30VOC		CDEMDMW203 54.00VOC		CDEMDMW203 55.30VOC		CDEMDMW203 57.00VOC		CDEMDMW203 59.50VOC		CDEMDMW203 61.00VOC	
Analysis Date		2/19/2009	N	2/23/2009	N	2/24/2009	N	2/23/2009	N	2/23/2009	N	2/20/2009	N	2/20/2009	N	2/20/2009	N
1,1-Dichloroethene	75-35-4	8.8	U	9.4	U	9.2	U	7.3	U	8.4	U	6.9	U	6.1	U	8.4	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.88	U	0.94	U	0.92	U	0.73	U	0.84	U	0.69	U	0.61	U	0.84	U
trans-1,2-Dichloroethene	156-60-5	8.8	U	9.4	U	9.2	U	7.3	U	8.4	U	6.9	U	6.1	U	8.4	U
cis-1,2-Dichloroethene	156-59-2	8.8	U	9.4	U	9.2	U	7.3	U	8.4	U	6.9	U	6.1	U	8.4	U
Chloroform	67-66-3	0.88	U	0.94	U	0.92	U	0.73	U	0.84	U	0.69	U	0.98		0.84	U
Carbon Tetrachloride	56-23-5	0.88	U	0.94	U	0.92	U	0.73	U	0.84	U	0.69	U	0.61	U	0.84	U
1,1,1-Trichloroethane	71-55-6	0.88	U	0.94	U	0.92	U	0.73	U	0.84	U	0.69	U	0.61	U	0.84	U
Trichloroethene	79-01-6	8.7		2.4		7.7		8.0		9.2		0.66	J	9.2		7.9	
Tetrachloroethene	127-18-4	0.88	U	0.94	U	0.92	U	0.73	U	0.84	U	0.69	U	0.61	U	0.84	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/19/2009 - 02/19/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-9		

Depth	CAS #	362.4		364		366		369		370.5		371.8		373.5		376.1	
Sample Name		CDEMDMW203 62.40VOC		CDEMDMW203 64.00VOC		CDEMDMW203 66.00VOC		CDEMDMW203 69.00VOC		CDEMDMW203 70.50VOC		CDEMDMW203 71.80VOC		CDEMDMW203 73.50VOC		CDEMDMW203 76.10VOC	
Analysis Date		2/20/2009 15:27	N	2/20/2009 21:41	N	2/20/2009 22:12	N	2/20/2009 22:43	N	2/20/2009 23:14	N	2/20/2009 23:45	N	2/21/2009 0:17	N	2/21/2009 0:48	N
1,1-Dichloroethene	75-35-4	8.6	U	9.0	U	7.3	U	9.9	U	8.6	U	11	U	7.1	U	8.7	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.86	U	0.90	U	0.73	U	0.99	U	0.86	U	1.1	U	0.71	U	0.87	U
trans-1,2-Dichloroethene	156-60-5	8.6	U	9.0	U	7.3	U	9.9	U	8.6	U	11	U	7.1	U	8.7	U
cis-1,2-Dichloroethene	156-59-2	8.6	U	9.0	U	7.3	U	9.9	U	8.6	U	11	U	7.1	U	8.7	U
Chloroform	67-66-3	0.86	U	0.90	U	0.73	U	1.7		0.86	U	1.1	U	0.71	U	0.87	U
Carbon Tetrachloride	56-23-5	0.86	U	0.90	U	0.73	U	0.99	U	0.86	U	1.1	U	0.71	U	0.87	U
1,1,1-Trichloroethane	71-55-6	0.86	U	0.90	U	0.73	U	0.99	U	0.86	U	1.1	U	0.71	U	0.87	U
Trichloroethene	79-01-6	0.86	U	24		7.0		4.2		5.2		4.5		3.4		10	
Tetrachloroethene	127-18-4	0.86	U	0.90	U	0.73	U	0.99	U	0.86	U	1.1	U	0.71	U	0.87	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/23/2009 - 02/23/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-10		

Depth	CAS #	379.00		380.50		381.51		384.30		387.10		389.50		391.70		392.60	
Sample Name		CDEMDMW203 79.00VOC		CDEMDMW203 80.50VOC		CDEMDMW203 81.50VOC		CDEMDMW203 84.30VOC		CDEMDMW203 87.10VOC		CDEMDMW203 89.50VOC		CDEMDMW203 91.70VOC		CDEMDMW203 92.60VOC	
Analysis Date		2/23/2009	N	2/23/2009	N	2/23/2009	N	2/23/2009	N	2/23/2009	N	2/23/2009	N	2/23/2009	N	2/23/2009	N
1,1-Dichloroethene	75-35-4	8.6	U	11	U	9.6	U	8.4	U	9.3	U	5.5	U	8.4	U	9.8	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.86	U	1.1	U	0.96	U	0.84	U	0.93	U	0.55	U	0.84	U	0.98	U
trans-1,2-Dichloroethene	156-60-5	8.6	U	11	U	9.6	U	8.4	U	9.3	U	5.5	U	8.4	U	9.8	U
cis-1,2-Dichloroethene	156-59-2	8.6	U	11	U	9.6	U	8.4	U	9.3	U	5.5	U	8.4	U	9.8	U
Chloroform	67-66-3	0.86	U	1.1	U	0.96	U	0.71	J	0.93	U	0.55	U	0.84	U	0.98	U
Carbon Tetrachloride	56-23-5	0.86	U	1.1	U	0.96	U	0.84	U	0.93	U	0.55	U	0.84	U	0.98	U
1,1,1-Trichloroethane	71-55-6	0.86	U	1.1	U	0.96	U	0.84	U	0.93	U	0.55	U	0.84	U	0.98	U
Trichloroethene	79-01-6	4.6		11		0.85	J	8.8		0.96		0.30	J	0.84	U	1.3	
Tetrachloroethene	127-18-4	0.86	U	1.1	U	0.96	U	0.84	U	0.93	U	0.55	U	0.84	U	0.98	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/23/2009 - 02/23/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-10		

Depth	CAS #	394.4		396.4		399.1		400.7		402.3		403.7		406.8		409.5	
Sample Name		CDEMDMW203 94.40VOC		CDEMDMW203 96.40VOC		CDEMDMW203 99.10VOC		CDEMDMW204 00.70VOC		CDEMDMW204 02.30VOC		CDEMDMW204 03.70VOC		CDEMDMW204 06.80VOC		CDEMDMW204 09.50VOC	
Analysis Date		2/23/2009	N	2/23/2009	N	2/23/2009	N	2/23/2009	N	2/23/2009	N	2/24/2009	N	2/24/2009	N	2/24/2009	N
1,1-Dichloroethene	75-35-4	8.0	U	13	U	11	U	9.7	U	9.3	U	10	U	8.9	U	8.2	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	0.80	U	1.3	U	1.1	U	0.97	U	0.93	U	1.0	U	0.89	U	0.82	U
trans-1,2-Dichloroethene	156-60-5	8.0	U	13	U	11	U	9.7	U	9.3	U	10	U	8.9	U	8.2	U
cis-1,2-Dichloroethene	156-59-2	8.0	U	13	U	11	U	9.7	U	9.3	U	10	U	8.9	U	8.2	U
Chloroform	67-66-3	0.80	U	1.3	U	1.1	U	0.97	U	0.67	J	1.0	U	0.89	U	0.82	U
Carbon Tetrachloride	56-23-5	0.80	U	1.3	U	1.1	U	0.97	U	0.93	U	1.0	U	0.89	U	0.82	U
1,1,1-Trichloroethane	71-55-6	0.80	U	1.3	U	1.1	U	0.97	U	0.93	U	1.0	U	0.89	U	0.82	U
Trichloroethene	79-01-6	3.4		9.5		1.1	U	2.6		1.8		1.7		2.2		1.9	
Tetrachloroethene	127-18-4	0.80	U	1.3	U	1.1	U	0.97	U	0.93	U	1.0	U	0.89	U	0.82	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/5/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/23/2009 - 02/23/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20-10		

Depth	CAS #	411.1		412.4	
Sample Name		CDEMDMW204 11.10VOC		CDEMDMW204 12.40VOC	
Analysis Date		2/24/2009	N	2/24/2009	N
1,1-Dichloroethene	75-35-4	11	U	8.8	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.1	U	0.88	U
trans-1,2-Dichloroethene	156-60-5	11	U	8.8	U
cis-1,2-Dichloroethene	156-59-2	11	U	8.8	U
Chloroform	67-66-3	1.1	U	0.88	U
Carbon Tetrachloride	56-23-5	1.1	U	0.88	U
1,1,1-Trichloroethane	71-55-6	1.1	U	0.88	U
Trichloroethene	79-01-6	2.5		1.8	
Tetrachloroethene	127-18-4	1.1	U	0.88	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/10/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/10/2009 - 10/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20FD		

Depth	CAS #	000.01		000.02		000.03		000.04		000.05		000.06		000.07		000.08	
Sample Name		CDEMDMW20FD001VOC		CDEMDMW20FD002VOC		CDEMDMW20FD003VOC		CDEMDMW20FD004VOC		CDEMDMW20FD005VOC		CDEMDMW20FD006VOC		CDEMDMW20FD007VOC		CDEMDMW20FD008VOC	
Analysis Date		2/11/2009	FD	2/12/2009	FD	2/12/2009	FD	2/13/2009	FD	2/18/2009	FD	2/16/2009	FD	2/17/2009	FD	2/19/2009	FD
1,1-Dichloroethene	75-35-4	9.0	U	13	U	10	U	12	U	17	U	12	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.90	U	1.3	U	1.0	U	1.2	U	1.7	U	1.2	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	9.0	U	13	U	10	U	12	U	17	U	12	U	10	U	10	U
cis-1,2-Dichloroethene	156-59-2	9.0	U	13	U	10	U	12	U	17	U	12	U	10	U	10	U
Chloroform	67-66-3	0.90	U	1.3	U	1.0	U	1.2	U	1.7	U	1.2	U	1.0	U	1.0	U
Carbon Tetrachloride	56-23-5	0.90	U	1.3	U	1.0	U	1.2	U	1.7	U	1.2	U	1.0	U	1.0	U
1,1,1-Trichloroethane	71-55-6	0.90	U	1.3	U	1.0	U	1.2	U	1.7	U	1.2	U	1.0	U	1.0	U
Trichloroethene	79-01-6	1.2	B	3.9		1.7		28		3.8		6.7		13		10	
Tetrachloroethene	127-18-4	0.90	U	1.3	U	1.0	U	1.2	U	1.7	U	1.2	U	1.0	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/10/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/10/2009 - 10/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20FD		

Depth	CAS #	0.09	
Sample Name		CDEMDMW20FD009VOC	
Analysis Date		2/23/2009	FD
1,1-Dichloroethene	75-35-4	9.6	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.96	U
trans-1,2-Dichloroethene	156-60-5	9.6	U
cis-1,2-Dichloroethene	156-59-2	9.6	U
Chloroform	67-66-3	0.96	U
Carbon Tetrachloride	56-23-5	0.96	U
1,1,1-Trichloroethane	71-55-6	0.96	U
Trichloroethene	79-01-6	2.3	
Tetrachloroethene	127-18-4	0.96	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/10/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/10/2009 - 10/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Methanol Extract	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20EB		

Depth	CAS #	000.01		000.02		000.03		000.04		000.05		000.06		000.07		000.08		0.09	
Sample Name		EB001VOC		EB002VOC		EB003VOC		EB004VOC		005voc		EB006VOC		EB007VOC		EB008VOC		EB009VOC	
Analysis Date		2/10/2009	EB	2/12/2009	EB	2/12/2009	EB	2/13/2009	EB	2/18/2009	EB	2/17/2009	EB	2/17/2009	EB	2/18/2009	EB	2/20/2009	EB
1,1-Dichloroethene	75-35-4	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	156-59-2	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	67-66-3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	56-23-5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	79-01-6	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	127-18-4	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/10/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/10/2009 - 02/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Methanol Extract	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20MB		

Depth	CAS #	000.01		000.02	
Sample Name		B001VOC		B002VOC	
Analysis Date		2/10/2009	N	2/13/2009	N
1,1-Dichloroethene	75-35-4	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	10	U	10	U
cis-1,2-Dichloroethene	156-59-2	10	U	10	U
Chloroform	67-66-3	1.0	U	1.0	U
Carbon Tetrachloride	56-23-5	1.0	U	1.0	U
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	U
Trichloroethene	79-01-6	1.0	U	1.0	U
Tetrachloroethene	127-18-4	1.0	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/10/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/10/2009 - 10/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Methanol Extract	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20EB		

Depth	CAS #	000.01		000.02		000.03		000.04		000.05		000.06		000.07		000.08		0.09	
Sample Name		EB001VOC		EB002VOC		EB003VOC		EB004VOC		005voc		EB006VOC		EB007VOC		EB008VOC		EB009VOC	
Analysis Date		2/10/2009	EB	2/12/2009	EB	2/12/2009	EB	2/13/2009	EB	2/18/2009	EB	2/17/2009	EB	2/17/2009	EB	2/18/2009	EB	2/20/2009	EB
1,1-Dichloroethene	75-35-4	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroeth	76-13-1	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
cis-1,2-Dichloroethene	156-59-2	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Chloroform	67-66-3	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Carbon Tetrachloride	56-23-5	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
1,1,1-Trichloroethane	71-55-6	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Trichloroethene	79-01-6	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U
Tetrachloroethene	127-18-4	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/10/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/10/2009 - 10/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20FD		

Depth	CAS #	000.01		000.02		000.03		000.04		000.05		000.06		000.07		000.08	
Sample Name		CDEMDMW20FD001VOC		CDEMDMW20FD002VOC		CDEMDMW20FD003VOC		CDEMDMW20FD004VOC		CDEMDMW20FD005VOC		CDEMDMW20FD006VOC		CDEMDMW20FD007VOC		CDEMDMW20FD008VOC	
Analysis Date		2/11/2009	FD	2/12/2009	FD	2/12/2009	FD	2/13/2009	FD	2/18/2009	FD	2/16/2009	FD	2/17/2009	FD	2/19/2009	FD
1,1-Dichloroethene	75-35-4	9.0	U	13	U	10	U	12	U	17	U	12	U	10	U	10	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.90	U	1.3	U	1.0	U	1.2	U	1.7	U	1.2	U	1.0	U	1.0	U
trans-1,2-Dichloroethene	156-60-5	9.0	U	13	U	10	U	12	U	17	U	12	U	10	U	10	U
cis-1,2-Dichloroethene	156-59-2	9.0	U	13	U	10	U	12	U	17	U	12	U	10	U	10	U
Chloroform	67-66-3	0.90	U	1.3	U	1.0	U	1.2	U	1.7	U	1.2	U	1.0	U	1.0	U
Carbon Tetrachloride	56-23-5	0.90	U	1.3	U	1.0	U	1.2	U	1.7	U	1.2	U	1.0	U	1.0	U
1,1,1-Trichloroethane	71-55-6	0.90	U	1.3	U	1.0	U	1.2	U	1.7	U	1.2	U	1.0	U	1.0	U
Trichloroethene	79-01-6	1.2	B	3.9		1.7		28		3.8		6.7		13		10	
Tetrachloroethene	127-18-4	0.90	U	1.3	U	1.0	U	1.2	U	1.7	U	1.2	U	1.0	U	1.0	U

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STONE ENVIRONMENTAL INC

Onsite Laboratory Results Mobile Laboratory 2

Client:	MPI	**Report Date:**	6/10/2009
Location:	South Plainfield, NJ	**Date(s) Sampled:**	02/10/2009 - 10/12/2009
Project ID:	CDE	**Date(s) Analyzed:**	02/06/2009 - 02/24/2009
SEI Project No.:	082130	**Test Method:**	6520-RockA,6520-RockB
Matrix:	Rock	**Results Given as:**	ug/kg as received
HOLE ID:	CDEMDMW20FD		

Depth	CAS #	0.09	
Sample Name		CDEMDMW20FD009VOC	
Analysis Date		2/23/2009	FD
1,1-Dichloroethene	75-35-4	9.6	U
1,1,2-Trichloro-1,2,2-trifluoroet	76-13-1	0.96	U
trans-1,2-Dichloroethene	156-60-5	9.6	U
cis-1,2-Dichloroethene	156-59-2	9.6	U
Chloroform	67-66-3	0.96	U
Carbon Tetrachloride	56-23-5	0.96	U
1,1,1-Trichloroethane	71-55-6	0.96	U
Trichloroethene	79-01-6	2.3	
Tetrachloroethene	127-18-4	0.96	U

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STONE ENVIRONMENTAL INC

STONE ENVIRONMENTAL INC

MALCOLM PIRNIE, SOUTH PLAINFIELD, NJ
PROJECT NO. 082130-R
STONE ENVIRONMENTAL, INC. LABORATORY

QUALITY CONTROL SUMMARIES
VOLATILE ORGANIC COMPOUNDS BY GC ECD

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AA
Date Analyzed	1/22/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	10	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

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Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AB
Date Analyzed	1/23/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	0.59	J

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLKAC
Date Analyzed	1/26/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

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J = Estimated value.

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Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLKAD
Date Analyzed	1/27/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

mjs 3/18/09

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AE
Date Analyzed	1/28/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

mjs 3/18/09

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AF
Date Analyzed	1/29/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK ag
Date Analyzed	1/30/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoroe	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

mjs 3/20/09

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK ah
Date Analyzed	2/2/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoroe	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

mjs 3/20/09

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK ai
Date Analyzed	2/3/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoroe	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

wjs 3/20/09

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AJ
Date Analyzed	2/6/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AK
Date Analyzed	2/9/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	0.60	J

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AL
Date Analyzed	2/10/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AM
Date Analyzed	2/11/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	1.7	J
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	0.97	J

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AN
Date Analyzed	2/12/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK XO
Date Analyzed	2/13/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID VBLK AO
Date Analyzed 2/13/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK ap
Date Analyzed	2/16/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK aq
Date Analyzed	2/17/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK ar
Date Analyzed	2/18/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AS
Date Analyzed	2/19/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AT
Date Analyzed	2/20/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AU
Date Analyzed	2/23/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AV
Date Analyzed	2/25/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AW
Date Analyzed	2/26/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AY
Date Analyzed	2/27/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK AZ
Date Analyzed	3/2/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK CA
Date Analyzed	3/3/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	10	U
1,1,2-Trichloro-1,2,2-trifluoro	1.0	U
trans-1,2-Dichloroethene	10	U
cis-1,2-Dichloroethene	10	U
Chloroform	1.0	U
Carbon Tetrachloride	1.0	U
1,1,1-Trichloroethane	1.0	U
Trichloroethene	1.0	U
Tetrachloroethene	1.0	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK BJ
Date Analyzed	2/6/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	500	U
1,1,2-Trichloro-1,2,2-trifluoro	50	U
trans-1,2-Dichloroethene	500	U
cis-1,2-Dichloroethene	500	U
Chloroform	50	U
Carbon Tetrachloride	50	U
1,1,1-Trichloroethane	50	U
Trichloroethene	50	U
Tetrachloroethene	50	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Blank Sample Analysis Summary

Sample ID	VBLK BK
Date Analyzed	2/9/2009

Analyte	Result (ug/L)	
1,1-Dichloroethene	500	U
1,1,2-Trichloro-1,2,2-trifluoro	50	U
trans-1,2-Dichloroethene	500	U
cis-1,2-Dichloroethene	500	U
Chloroform	50	U
Carbon Tetrachloride	50	U
1,1,1-Trichloroethane	50	U
Trichloroethene	50	U
Tetrachloroethene	50	U

U = Not detected above the specified reporting limit.
J = Estimated value.

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AA

Analysis Date: 01/22/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	520	104	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	55	110	80 - 120
trans-1,2-Dichloroethene	10 U	460	93	80 - 120
cis-1,2-Dichloroethene	10 U	450	89	80 - 120
Chloroform	1.0 U	41	83	80 - 120
Carbon Tetrachloride	1.0 U	41	82	80 - 120
1,1,1-Trichloroethane	10 U	42	85	80 - 120
Trichloroethene	1.0 U	42	84	80 - 120
Tetrachloroethene	1.0 U	41	83	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

mjs
3/18/09

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AB

Analysis Date: 01/23/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	560	113	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	61	121 *	80 - 120
trans-1,2-Dichloroethene	10 U	530	107	80 - 120
cis-1,2-Dichloroethene	10 U	530	106	80 - 120
Chloroform	1.0 U	50	100	80 - 120
Carbon Tetrachloride	1.0 U	50	99	80 - 120
1,1,1-Trichloroethane	1.0 U	50	101	80 - 120
Trichloroethene	1.0 U	50	100	80 - 120
Tetrachloroethene	0.59 J	50	99	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AC

Analysis Date: 01/26/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	530	106	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	54	108	80 - 120
trans-1,2-Dichloroethene	10 U	490	98	80 - 120
cis-1,2-Dichloroethene	10 U	500	99	80 - 120
Chloroform	1.0 U	47	95	80 - 120
Carbon Tetrachloride	1.0 U	46	92	80 - 120
1,1,1-Trichloroethane	1.0 U	46	93	80 - 120
Trichloroethene	1.0 U	48	96	80 - 120
Tetrachloroethene	1.0 U	50	99	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

kyS
3/18/09

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AD

Analysis Date: 01/27/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	510	103	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	55	110	80 - 120
trans-1,2-Dichloroethene	10 U	510	103	80 - 120
cis-1,2-Dichloroethene	10 U	530	106	80 - 120
Chloroform	1.0 U	50	99	80 - 120
Carbon Tetrachloride	1.0 U	48	96	80 - 120
1,1,1-Trichloroethane	1.0 U	51	101	80 - 120
Trichloroethene	1.0 U	48	97	80 - 120
Tetrachloroethene	1.0 U	48	96	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

wjs 3/18/09

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AE

Analysis Date: 01/28/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	530	106	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	57	114	80 - 120
trans-1,2-Dichloroethene	10 U	520	104	80 - 120
cis-1,2-Dichloroethene	10 U	520	103	80 - 120
Chloroform	1.0 U	49	98	80 - 120
Carbon Tetrachloride	1.0 U	48	96	80 - 120
1,1,1-Trichloroethane	1.0 U	49	98	80 - 120
Trichloroethene	1.0 U	48	96	80 - 120
Tetrachloroethene	1.0 U	48	96	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

mjs 3/18/09

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AF

Analysis Date: 01/29/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	470	94	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	49	99	80 - 120
trans-1,2-Dichloroethene	10 U	470	94	80 - 120
cis-1,2-Dichloroethene	10 U	480	96	80 - 120
Chloroform	1.0 U	45	91	80 - 120
Carbon Tetrachloride	1.0 U	44	87	80 - 120
1,1,1-Trichloroethane	1.0 U	45	90	80 - 120
Trichloroethene	1.0 U	44	88	80 - 120
Tetrachloroethene	1.0 U	44	88	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

MJS
3/20/09

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: ag

Analysis Date: 01/30/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	520	105	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroeth	1.0 U	56	111	80 - 120
trans-1,2-Dichloroethene	10 U	510	102	80 - 120
cis-1,2-Dichloroethene	10 U	510	101	80 - 120
Chloroform	1.0 U	48	97	80 - 120
Carbon Tetrachloride	1.0 U	47	95	80 - 120
1,1,1-Trichloroethane	1.0 U	49	97	80 - 120
Trichloroethene	1.0 U	47	94	80 - 120
Tetrachloroethene	1.0 U	47	94	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

mjs 3/20/09

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: ah

Analysis Date: 02/02/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	500	101	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroeth	1.0 U	51	103	80 - 120
trans-1,2-Dichloroethene	10 U	490	97	80 - 120
cis-1,2-Dichloroethene	10 U	490	97	80 - 120
Chloroform	1.0 U	47	93	80 - 120
Carbon Tetrachloride	1.0 U	47	93	80 - 120
1,1,1-Trichloroethane	1.0 U	47	94	80 - 120
Trichloroethene	1.0 U	46	93	80 - 120
Tetrachloroethene	1.0 U	47	94	80 - 120

Ok mjs 3/20/09

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: ai

Analysis Date: 02/03/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	520	104	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroeth	1.0 U	55	110	80 - 120
trans-1,2-Dichloroethene	10 U	510	101	80 - 120
cis-1,2-Dichloroethene	10 U	510	102	80 - 120
Chloroform	1.0 U	50	100	80 - 120
Carbon Tetrachloride	1.0 U	48	95	80 - 120
1,1,1-Trichloroethane	1.0 U	49	97	80 - 120
Trichloroethene	1.0 U	47	94	80 - 120
Tetrachloroethene	1.0 U	47	93	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

MJS 3/20/09

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AJ

Analysis Date: 02/06/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	500	101	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	52	103	80 - 120
trans-1,2-Dichloroethene	10 U	470	94	80 - 120
cis-1,2-Dichloroethene	10 U	470	94	80 - 120
Chloroform	1.0 U	46	91	80 - 120
Carbon Tetrachloride	1.0 U	46	92	80 - 120
1,1,1-Trichloroethane	1.0 U	46	92	80 - 120
Trichloroethene	1.0 U	45	89	80 - 120
Tetrachloroethene	1.0 U	45	91	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AK

Analysis Date: 02/09/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	450	89	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	45	90	80 - 120
trans-1,2-Dichloroethene	10 U	440	88	80 - 120
cis-1,2-Dichloroethene	10 U	450	91	80 - 120
Chloroform	1.0 U	43	86	80 - 120
Carbon Tetrachloride	1.0 U	44	87	80 - 120
1,1,1-Trichloroethane	1.0 U	42	84	80 - 120
Trichloroethene	1.0 U	42	85	80 - 120
Tetrachloroethene	0.60 J	43	84	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AL

Analysis Date: 02/10/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	500	100	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	52	105	80 - 120
trans-1,2-Dichloroethene	10 U	490	98	80 - 120
cis-1,2-Dichloroethene	10 U	490	98	80 - 120
Chloroform	1.0 U	47	94	80 - 120
Carbon Tetrachloride	1.0 U	47	94	80 - 120
1,1,1-Trichloroethane	1.0 U	48	95	80 - 120
Trichloroethene	1.0 U	45	90	80 - 120
Tetrachloroethene	1.0 U	45	90	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AM

Analysis Date: 02/11/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	610	123 *	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	65	130 *	80 - 120
trans-1,2-Dichloroethene	1.7 J	610	122 *	80 - 120
cis-1,2-Dichloroethene	10 U	600	120	80 - 120
Chloroform	1.0 U	58	116	80 - 120
Carbon Tetrachloride	1.0 U	57	114	80 - 120
1,1,1-Trichloroethane	1.0 U	58	116	80 - 120
Trichloroethene	1.0 U	54	109	80 - 120
Tetrachloroethene	0.97 J	54	106	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AN

Analysis Date: 02/12/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	550	110	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	56	112	80 - 120
trans-1,2-Dichloroethene	10 U	470	94	80 - 120
cis-1,2-Dichloroethene	10 U	520	105	80 - 120
Chloroform	1.0 U	51	103	80 - 120
Carbon Tetrachloride	1.0 U	52	104	80 - 120
1,1,1-Trichloroethane	1.0 U	52	103	80 - 120
Trichloroethene	1.0 U	51	101	80 - 120
Tetrachloroethene	1.0 U	49	98	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AO

Analysis Date: 02/13/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	550	111	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	55	110	80 - 120
trans-1,2-Dichloroethene	10 U	470	94	80 - 120
cis-1,2-Dichloroethene	10 U	520	105	80 - 120
Chloroform	1.0 U	50	100	80 - 120
Carbon Tetrachloride	1.0 U	53	105	80 - 120
1,1,1-Trichloroethane	1.0 U	50	100	80 - 120
Trichloroethene	1.0 U	49	98	80 - 120
Tetrachloroethene	1.0 U	49	97	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: ap

Analysis Date: 02/16/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	590	118	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	59	119	80 - 120
trans-1,2-Dichloroethene	10 U	570	114	80 - 120
cis-1,2-Dichloroethene	10 U	550	111	80 - 120
Chloroform	1.0 U	53	106	80 - 120
Carbon Tetrachloride	1.0 U	52	104	80 - 120
1,1,1-Trichloroethane	1.0 U	53	105	80 - 120
Trichloroethene	1.0 U	51	102	80 - 120
Tetrachloroethene	1.0 U	50	101	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: aq
Analysis Date: 02/17/2009
Method: 6520-RockA
Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	570	114	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	57	115	80 - 120
trans-1,2-Dichloroethene	10 U	570	113	80 - 120
cis-1,2-Dichloroethene	10 U	560	112	80 - 120
Chloroform	1.0 U	54	107	80 - 120
Carbon Tetrachloride	1.0 U	53	106	80 - 120
1,1,1-Trichloroethane	1.0 U	53	105	80 - 120
Trichloroethene	1.0 U	51	102	80 - 120
Tetrachloroethene	1.0 U	50	100	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: ar

Analysis Date: 02/18/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	570	113	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	58	116	80 - 120
trans-1,2-Dichloroethene	10 U	570	114	80 - 120
cis-1,2-Dichloroethene	10 U	580	116	80 - 120
Chloroform	1.0 U	56	112	80 - 120
Carbon Tetrachloride	1.0 U	54	108	80 - 120
1,1,1-Trichloroethane	1.0 U	54	108	80 - 120
Trichloroethene	1.0 U	52	104	80 - 120
Tetrachloroethene	1.0 U	50	100	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AS

Analysis Date: 02/19/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	580	116	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	59	119	80 - 120
trans-1,2-Dichloroethene	10 U	580	115	80 - 120
cis-1,2-Dichloroethene	10 U	580	116	80 - 120
Chloroform	1.0 U	56	112	80 - 120
Carbon Tetrachloride	1.0 U	54	108	80 - 120
1,1,1-Trichloroethane	1.0 U	54	108	80 - 120
Trichloroethene	1.0 U	52	104	80 - 120
Tetrachloroethene	1.0 U	51	102	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AT

Analysis Date: 02/20/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	510	103	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	54	108	80 - 120
trans-1,2-Dichloroethene	10 U	510	102	80 - 120
cis-1,2-Dichloroethene	10 U	530	107	80 - 120
Chloroform	1.0 U	52	103	80 - 120
Carbon Tetrachloride	1.0 U	50	100	80 - 120
1,1,1-Trichloroethane	1.0 U	50	100	80 - 120
Trichloroethene	1.0 U	48	96	80 - 120
Tetrachloroethene	1.0 U	47	94	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AU

Analysis Date: 02/23/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	590	117	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	57	113	80 - 120
trans-1,2-Dichloroethene	10 U	550	109	80 - 120
cis-1,2-Dichloroethene	10 U	530	107	80 - 120
Chloroform	1.0 U	51	102	80 - 120
Carbon Tetrachloride	1.0 U	52	104	80 - 120
1,1,1-Trichloroethane	1.0 U	50	101	80 - 120
Trichloroethene	1.0 U	50	100	80 - 120
Tetrachloroethene	1.0 U	51	101	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AW
Analysis Date: 02/26/2009
Method: 6520-RockA
Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	580	117	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	60	120	80 - 120
trans-1,2-Dichloroethene	10 U	560	113	80 - 120
cis-1,2-Dichloroethene	10 U	570	114	80 - 120
Chloroform	1.0 U	56	111	80 - 120
Carbon Tetrachloride	1.0 U	54	109	80 - 120
1,1,1-Trichloroethane	1.0 U	54	108	80 - 120
Trichloroethene	1.0 U	51	103	80 - 120
Tetrachloroethene	1.0 U	50	101	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AY

Analysis Date: 02/27/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	570	113	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	60	119	80 - 120
trans-1,2-Dichloroethene	10 U	560	111	80 - 120
cis-1,2-Dichloroethene	10 U	580	115	80 - 120
Chloroform	1.0 U	57	114	80 - 120
Carbon Tetrachloride	1.0 U	56	111	80 - 120
1,1,1-Trichloroethane	1.0 U	55	110	80 - 120
Trichloroethene	1.0 U	52	103	80 - 120
Tetrachloroethene	1.0 U	50	100	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: AZ

Analysis Date: 03/02/2009

Method: 6520-RockA

Spike Amount: 50

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	620	124 *	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	1.0 U	60	120	80 - 120
trans-1,2-Dichloroethene	10 U	570	114	80 - 120
cis-1,2-Dichloroethene	10 U	530	107	80 - 120
Chloroform	1.0 U	51	101	80 - 120
Carbon Tetrachloride	1.0 U	53	106	80 - 120
1,1,1-Trichloroethane	1.0 U	51	102	80 - 120
Trichloroethene	1.0 U	50	101	80 - 120
Tetrachloroethene	1.0 U	50	101	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: BJ

Analysis Date: 02/06/2009

Method: 6520-RockB

Spike Amount: 1500

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	500 U	17000	113	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	50 U	1700	112	80 - 120
trans-1,2-Dichloroethene	500 U	16000	107	80 - 120
cis-1,2-Dichloroethene	500 U	16000	106	80 - 120
Chloroform	50 U	1500	102	80 - 120
Carbon Tetrachloride	50 U	1700	112	80 - 120
1,1,1-Trichloroethane	50 U	1600	110	80 - 120
Trichloroethene	50 U	1600	104	80 - 120
Tetrachloroethene	50 U	1600	104	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Control Sample Summary

QC Batch: BK

Analysis Date: 02/09/2009

Method: 6520-RockB

Spike Amount: 1500

Analyte	Lab Blank Conc. (ug/L)	LCS Conc.(ug/L)	LCS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	500 U	15000	99	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroet	50 U	1500	98	80 - 120
trans-1,2-Dichloroethene	500 U	14000	95	80 - 120
cis-1,2-Dichloroethene	500 U	14000	95	80 - 120
Chloroform	50 U	1400	93	80 - 120
Carbon Tetrachloride	50 U	1500	100	80 - 120
1,1,1-Trichloroethane	50 U	1400	96	80 - 120
Trichloroethene	50 U	1400	94	80 - 120
Tetrachloroethene	50 U	1400	96	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
NA = Compound not present.
* = Percent Recovery outside QC Limits

STONE ENVIRONMENTAL INC

Matrix Spike Results Sheet

Project ID: **082130**

Sample: CDEMEMW14059.80
Date: 2/9/2009
MS #: SEI-173
Spike Amount: 132 & 1317.5

	Original Conc.		MS Conc.	MS %Recovery	QC Limits	
1,1,2-Trichloro-1,2,2-triflu	1.2	U	126	96%	70-130	
1,1-Dichloroethene	12	U	1221	93%	70-130	
trans-1,2-Dichloroethene	12	U	1193	91%	70-130	
cis-1,2-Dichloroethene	1100		1604	38%	70-130	*
1,1,1-Trichloroethane	1.2	U	127	96%	70-130	
Carbon Tetrachloride	1.2	U	126	96%	70-130	
Chloroform	1.2	U	124	94%	70-130	
Trichloroethene	1300		506	-603%	70-130	*
Tetrachloroethene	1.2	U	124	94%	70-130	

U=Not detected above the specified reporting limit
J=Estimated value
E=Estimated value, marginally above the calibration levels
*=Percent Recovery outside QC limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW14105.60
Sample Date: 2/25/2009
Analysis Date: 02/26/2009
Method: 6520-RockA
Spike Amount: 97.135

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	9.1 U	1100	113	80 - 120
1,1,2-Trichloro-1,2,2-triflu	0.91 U	110	113	80 - 120
trans-1,2-Dichloroethene	9.1 U	1100	113	80 - 120
cis-1,2-Dichloroethene	9.1 U	1100	113	80 - 120
Chloroform	0.91 U	110	113	80 - 120
Carbon Tetrachloride	0.91 U	110	113	80 - 120
1,1,1-Trichloroethane	0.91 U	110	113	80 - 120
Trichloroethene	0.91 U	100	103	80 - 120
Tetrachloroethene	0.91 U	100	103	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW14143.40
Sample Date: 2/26/2009
Analysis Date: 02/27/2009
Method: 6520-RockA
Spike Amount: 120.48

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	11 U	1500	125*	80 - 120
1,1,2-Trichloro-1,2,2-triflu	1.1 U	140	116	80 - 120
trans-1,2-Dichloroethene	11 U	1400	116	80 - 120
cis-1,2-Dichloroethene	11 U	1400	116	80 - 120
Chloroform	1.1 U	140	116	80 - 120
Carbon Tetrachloride	1.1 U	140	116	80 - 120
1,1,1-Trichloroethane	1.1 U	140	116	80 - 120
Trichloroethene	1.1 U	130	108	80 - 120
Tetrachloroethene	1.1 U	130	108	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW14223.60
Sample Date: 3/3/2009
Analysis Date: 03/03/2009
Method: 6520-RockA
Spike Amount: 96.525

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	12 U	1100	114	80 - 120
1,1,2-Trichloro-1,2,2-triflu	1.2 U	100	104	80 - 120
trans-1,2-Dichloroethene	12 U	980	102	80 - 120
cis-1,2-Dichloroethene	12 U	970	100	80 - 120
Chloroform	1.2 U	98	102	80 - 120
Carbon Tetrachloride	1.2 U	100	104	80 - 120
1,1,1-Trichloroethane	1.2 U	100	104	80 - 120
Trichloroethene	1.2 U	96	99	80 - 120
Tetrachloroethene	1.2 U	99	103	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW14231.30
Sample Date: 3/3/2009
Analysis Date: 03/03/2009
Method: 6520-RockA
Spike Amount: 102.88

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	7.0 U	1100	107	80 - 120
1,1,2-Trichloro-1,2,2-triflu	0.70 U	110	107	80 - 120
trans-1,2-Dichloroethene	7.0 U	1100	107	80 - 120
cis-1,2-Dichloroethene	7.0 U	1100	107	80 - 120
Chloroform	0.70 U	110	107	80 - 120
Carbon Tetrachloride	0.70 U	110	107	80 - 120
1,1,1-Trichloroethane	0.70 U	110	107	80 - 120
Trichloroethene	0.70	110	106	80 - 120
Tetrachloroethene	0.70 U	110	107	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW16035.00
Sample Date: 1/22/2009
Analysis Date: 01/23/2009
Method: 6520-RockA
Spike Amount: 165.43

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	25 U	1500	91	70-130
1,1,2-Trichloro-1,2,2-triflu	2.5 U	160	97	70-130
trans-1,2-Dichloroethene	25 U	1600	97	70-130
cis-1,2-Dichloroethene	25 U	1700	103	70-130
Chloroform	2.5 U	160	97	70-130
Carbon Tetrachloride	2.5 U	160	97	70-130
1,1,1-Trichloroethane	2.5 U	160	97	70-130
Trichloroethene	36	180	87	70-130
Tetrachloroethene	2.5 U	170	103	70-130

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimeted value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW16110.20
Sample Date: 1/27/2009
Analysis Date: 01/28/2009
Method: 6520-RockA
Spike Amount: 174.83

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	12 U	1600	92	70-130
1,1,2-Trichloro-1,2,2-triflu	1.2 U	170	97	70-130
trans-1,2-Dichloroethene	12 U	1600	92	70-130
cis-1,2-Dichloroethene	17	1700	96	70-130
Chloroform	1.2 U	170	97	70-130
Carbon Tetrachloride	1.2 U	170	97	70-130
1,1,1-Trichloroethane	1.2 U	170	97	70-130
Trichloroethene	130	240	63 *	70-130
Tetrachloroethene	1.2 U	170	97	70-130

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW16149.70
Sample Date: 1/29/2009
Analysis Date: 01/29/2009
Method: 6520-RockA
Spike Amount: 154.8

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	9.1 U	1400	90	70-130
1,1,2-Trichloro-1,2,2-triflu	0.91 U	150	97	70-130
trans-1,2-Dichloroethene	9.1 U	1500	97	70-130
cis-1,2-Dichloroethene	61	1600	99	70-130
Chloroform	0.91 U	150	97	70-130
Carbon Tetrachloride	0.91 U	150	97	70-130
1,1,1-Trichloroethane	0.91 U	150	97	70-130
Trichloroethene	130	260	84	70-130
Tetrachloroethene	0.91 U	150	97	70-130

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: cdemdmw16190.10v
Sample Date: 1/30/2009
Analysis Date: 01/30/2009
Method: 6520-RockA
Spike Amount: 105.26

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	11 U	950	90	70-130
1,1,2-Trichloro-1,2,2-triflu	1.1 U	97	92	70-130
trans-1,2-Dichloroethene	11 U	960	91	70-130
cis-1,2-Dichloroethene	5.4 J	1000	94	70-130
Chloroform	1.1 U	100	95	70-130
Carbon Tetrachloride	1.1 U	97	92	70-130
1,1,1-Trichloroethane	1.1 U	100	95	70-130
Trichloroethene	28	110	78	70-130
Tetrachloroethene	1.1 U	100	95	70-130

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW16230.30
Sample Date: 2/2/2009
Analysis Date: 02/02/2009
Method: 6520-RockA
Spike Amount: 98.039

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	10 U	770	79	70-130
1,1,2-Trichloro-1,2,2-triflu	1.0 U	77	79	70-130
trans-1,2-Dichloroethene	10 U	800	82	70-130
cis-1,2-Dichloroethene	10 U	860	88	70-130
Chloroform	1.0 U	86	88	70-130
Carbon Tetrachloride	1.0 U	86	88	70-130
1,1,1-Trichloroethane	0.16 J	85	87	70-130
Trichloroethene	4.0	86	84	70-130
Tetrachloroethene	1.0 U	87	89	70-130

U = Not detected above the specified reporting limit.
J = Estimated valua.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW20058.50
Sample Date: 2/10/2009
Analysis Date: 02/11/2009
Method: 6520-RockA
Spike Amount: 112.99

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	11 U	1500	133*	80 - 120
1,1,2-Trichloro-1,2,2-triflu	1.1 U	150	133*	80 - 120
trans-1,2-Dichloroethene	11 U	1400	124*	80 - 120
cis-1,2-Dichloroethene	11 U	1400	124*	80 - 120
Chloroform	1.1 U	140	124*	80 - 120
Carbon Tetrachloride	1.1 U	140	124*	80 - 120
1,1,1-Trichloroethane	1.1 U	140	124*	80 - 120
Trichloroethene	1.1 U	130	115	80 - 120
Tetrachloroethene	1.1 U	130	115	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW20090.75
Sample Date: 10/12/2009
Analysis Date: 02/12/2009
Method: 6520-RockA
Spike Amount: 210.30

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	12 U	2100	100	80 - 120
1,1,2-Trichloro-1,2,2-triflu	1.2 U	210	100	80 - 120
trans-1,2-Dichloroethene	12 U	1900	90	80 - 120
cis-1,2-Dichloroethene	12 U	2100	100	80 - 120
Chloroform	1.2 U	210	100	80 - 120
Carbon Tetrachloride	1.2 U	220	105	80 - 120
1,1,1-Trichloroethane	1.2 U	220	105	80 - 120
Trichloroethene	6.4	210	97	80 - 120
Tetrachloroethene	1.2 U	210	100	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW20120.70
Sample Date: 2/11/2009
Analysis Date: 02/12/2009
Method: 6520-RockA
Spike Amount: 89.767

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	14 U	880	98	80 - 120
1,1,2-Trichloro-1,2,2-triflu	1.4 U	87	97	80 - 120
trans-1,2-Dichloroethene	14 U	800	89	80 - 120
cis-1,2-Dichloroethene	14 U	880	98	80 - 120
Chloroform	1.4 U	89	99	80 - 120
Carbon Tetrachloride	1.4 U	94	105	80 - 120
1,1,1-Trichloroethane	1.4 U	91	101	80 - 120
Trichloroethene	1.6	91	100	80 - 120
Tetrachloroethene	1.4 U	91	101	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW20157.20
Sample Date: 2/12/2009
Analysis Date: 02/13/2009
Method: 6520-RockA
Spike Amount: 102.72

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	9.2 U	1000	97	80 - 120
1,1,2-Trichloro-1,2,2-triflu	0.92 U	98	95	80 - 120
trans-1,2-Dichloroethene	9.2 U	900	88	80 - 120
cis-1,2-Dichloroethene	9.2 U	1000	97	80 - 120
Chloroform	0.92 U	100	97	80 - 120
Carbon Tetrachloride	0.92 U	100	97	80 - 120
1,1,1-Trichloroethane	0.92 U	100	97	80 - 120
Trichloroethene	6.9	100	91	80 - 120
Tetrachloroethene	0.92 U	120	117	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW20192.30
Sample Date: 2/13/2009
Analysis Date: 02/18/2009
Method: 6520-RockA
Spike Amount: 158.73

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	11 U	1700	107	80 - 120
1,1,2-Trichloro-1,2,2-triflu	1.1 U	170	107	80 - 120
trans-1,2-Dichloroethene	11 U	1700	107	80 - 120
cis-1,2-Dichloroethene	11 U	1700	107	80 - 120
Chloroform	1.1 U	170	107	80 - 120
Carbon Tetrachloride	1.1 U	170	107	80 - 120
1,1,1-Trichloroethane	1.1 U	170	107	80 - 120
Trichloroethene	6.1	170	103	80 - 120
Tetrachloroethene	1.1 U	170	107	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW20231.40
Sample Date: 2/16/2009
Analysis Date: 02/16/2009
Method: 6520-RockA
Spike Amount: 95.877

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	9.7 U	1000	104	80 - 120
1,1,2-Trichloro-1,2,2-triflu	0.97 U	100	104	80 - 120
trans-1,2-Dichloroethene	9.7 U	980	102	80 - 120
cis-1,2-Dichloroethene	9.7 U	1000	104	80 - 120
Chloroform	0.97 U	100	104	80 - 120
Carbon Tetrachloride	0.97 U	100	104	80 - 120
1,1,1-Trichloroethane	0.97 U	100	104	80 - 120
Trichloroethene	7.2	100	97	80 - 120
Tetrachloroethene	0.97 U	120	125*	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW20268.70
Sample Date: 2/17/2009
Analysis Date: 02/17/2009
Method: 6520-RockA
Spike Amount: 96.200

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	11 U	980	102	80 - 120
1,1,2-Trichloro-1,2,2-triflu	1.1 U	95	99	80 - 120
trans-1,2-Dichloroethene	11 U	970	101	80 - 120
cis-1,2-Dichloroethene	11 U	1000	104	80 - 120
Chloroform	1.1 U	100	104	80 - 120
Carbon Tetrachloride	1.1 U	100	104	80 - 120
1,1,1-Trichloroethane	1.1 U	100	104	80 - 120
Trichloroethene	17	110	97	80 - 120
Tetrachloroethene	1.1 U	99	103	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW20310.60
Sample Date: 2/18/2009
Analysis Date: 02/18/2009
Method: 6520-RockA
Spike Amount: 79.302

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	12 U	870	110	80 - 120
1,1,2-Trichloro-1,2,2-triflu	1.2 U	87	110	80 - 120
trans-1,2-Dichloroethene	12 U	870	110	80 - 120
cis-1,2-Dichloroethene	12 U	880	111	80 - 120
Chloroform	1.2 U	88	111	80 - 120
Carbon Tetrachloride	1.2 U	88	111	80 - 120
1,1,1-Trichloroethane	1.2 U	88	111	80 - 120
Trichloroethene	16	95	100	80 - 120
Tetrachloroethene	1.2 U	85	107	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW20349.30
Sample Date: 2/20/2009
Analysis Date: 02/23/2009
Method: 6520-RockA
Spike Amount: 88.378

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	9.4 U	890	101	80 - 120
1,1,2-Trichloro-1,2,2-triflu	0.94 U	85	96	80 - 120
trans-1,2-Dichloroethene	9.4 U	850	96	80 - 120
cis-1,2-Dichloroethene	9.4 U	850	96	80 - 120
Chloroform	0.94 U	86	97	80 - 120
Carbon Tetrachloride	0.94 U	90	102	80 - 120
1,1,1-Trichloroethane	0.94 U	87	98	80 - 120
Trichloroethene	2.4	87	96	80 - 120
Tetrachloroethene	0.94 U	89	101	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Stone Environmental Inc. Project Number: 082130
Laboratory Matrix Spike Analyses Summary Sheet

Sample ID: CDEMDMW20387.10
Sample Date: 2/23/2009
Analysis Date: 02/23/2009
Method: 6520-RockA
Spike Amount: 77.791

Analyte	Original Conc. (ug/kg)	MS Conc. (ug/kg)	MS % Recovery	QC Limits (% Recovery)
1,1-Dichloroethene	9.3 U	860	111	80 - 120
1,1,2-Trichloro-1,2,2-triflu	0.93 U	84	108	80 - 120
trans-1,2-Dichloroethene	9.3 U	810	104	80 - 120
cis-1,2-Dichloroethene	9.3 U	800	103	80 - 120
Chloroform	0.93 U	81	104	80 - 120
Carbon Tetrachloride	0.93 U	86	111	80 - 120
1,1,1-Trichloroethane	0.93 U	83	107	80 - 120
Trichloroethene	0.96	80	102	80 - 120
Tetrachloroethene	0.93 U	82	105	80 - 120

U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
* = Percent Recovery outside QC Limits

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: 6620-RockA
Results Given as: ug/kg

Sample ID	CDEMDMW14114.20VOC		CDEMDMW14114.20VOC-LD		RPD
Lab ID	SEI-472		SEI-472-LD		
Sample Date	2/26/2009		2/26/2009		
Date Analyzed	2/26/2009		2/26/2009		
1,1-Dichloroethene	8.1	U	8.1	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	0.81	U	0.81	U	NA
trans-1,2-Dichloroethene	8.1	U	8.1	U	NA
cis-1,2-Dichloroethene	8.1	U	8.1	U	NA
Chloroform	0.81	U	0.81	U	NA
Carbon Tetrachloride	0.81	U	0.81	U	NA
1,1,1-Trichloroethane	0.81	U	0.81	U	NA
Trichloroethene	9.4		9.5		1
Tetrachloroethene	0.89		0.91		2

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: **6520-RockA**
Results Given as: **ug/kg**

Sample ID	CDEMDMW14134.00VOC		CDEMDMW14134.00VOC-LD		RPD
Lab ID	SEI-483		SEI-483-LD		
Sample Date	2/26/2009		2/26/2009		
Date Analyzed	2/27/2009		2/27/2009		
1,1-Dichloroethene	11	U	11	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	1.1	U	1.1	U	NA
trans-1,2-Dichloroethene	11	U	11	U	NA
cis-1,2-Dichloroethene	11	U	11	U	NA
Chloroform	1.1	U	1.1	U	NA
Carbon Tetrachloride	1.1	U	1.1	U	NA
1,1,1-Trichloroethane	1.1	U	1.1	U	NA
Trichloroethene	1.1	U	1.1	U	NA
Tetrachloroethene	1.1	U	1.1	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: 6520-RockA
Results Given as: ug/kg

Sample ID	CDEMDMW14219.90VOC		CDEMDMW14219.90VOC-LD		RPD
Lab ID	SEI-538		SEI-538-LD		
Sample Date	3/3/2009		3/3/2009		
Date Analyzed	3/3/2009		3/3/2009		
1,1-Dichloroethene	9.3	U	9.3	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	0.93	U	0.93	U	NA
trans-1,2-Dichloroethene	9.3	U	9.3	U	NA
cis-1,2-Dichloroethene	9.3	U	9.3	U	NA
Chloroform	0.93	U	0.93	U	NA
Carbon Tetrachloride	0.93	U	0.93	U	NA
1,1,1-Trichloroethane	0.93	U	0.93	U	NA
Trichloroethene	0.93	U	0.82	J	NA
Tetrachloroethene	0.93	U	0.93	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: **6520-RockA**
Results Given as: **ug/kg**

Sample ID	CDEMDMW14223.60VOC		CDEMDMW14223.60VOC-LD		RPD
Lab ID	SEI-540		SEI-540-LD		
Sample Date	3/3/2009		3/3/2009		
Date Analyzed	3/3/2009		3/3/2009		
1,1-Dichloroethene	12	U	12	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	1.2	U	1.2	U	NA
trans-1,2-Dichloroethene	12	U	12	U	NA
cis-1,2-Dichloroethene	12	U	12	U	NA
Chloroform	1.2	U	1.2	U	NA
Carbon Tetrachloride	1.2	U	1.2	U	NA
1,1,1-Trichloroethane	1.2	U	1.2	U	NA
Trichloroethene	1.2	U	1.2	U	NA
Tetrachloroethene	1.2	U	1.2	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: **6620-RockA**
Results Given as: **ug/kg**

Sample ID	CDEMDMW14223.60VOC		CDEMDMW14223.60VOC-LD		RPD
Lab ID	SEI-540		SEI-540-LD		
Sample Date	3/3/2009		3/3/2009		
Date Analyzed	3/3/2009		3/3/2009		
1,1-Dichloroethene	12	U	12	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	1.2	U	1.2	U	NA
trans-1,2-Dichloroethene	12	U	12	U	NA
cis-1,2-Dichloroethene	12	U	12	U	NA
Chloroform	1.2	U	1.2	U	NA
Carbon Tetrachloride	1.2	U	1.2	U	NA
1,1,1-Trichloroethane	1.2	U	1.2	U	NA
Trichloroethene	1.2	U	1.2	U	NA
Tetrachloroethene	1.2	U	1.2	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: **6520-RockA**
Results Given as: **ug/kg**

Sample ID	CDEMDMW14227.20VOC		CDEMDMW14227.20VOC-LD		RPD
Lab ID	SEI-546		SEI-546-LD		
Sample Date	3/3/2009		3/3/2009		
Date Analyzed	3/3/2009		3/3/2009		
1,1-Dichloroethene	7.4	U	7.4	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	0.74	U	0.74	U	NA
trans-1,2-Dichloroethene	7.4	U	7.4	U	NA
cis-1,2-Dichloroethene	7.4	U	7.4	U	NA
Chloroform	0.74	U	0.74	U	NA
Carbon Tetrachloride	0.74	U	0.74	U	NA
1,1,1-Trichloroethane	0.74	U	0.74	U	NA
Trichloroethene	1.3		1.2		8
Tetrachloroethene	0.74	U	0.74	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: 8520-RockA
Results Given as: ug/kg

Sample ID	CDEMDMW14227.20VOC		CDEMDMW14227.20VOC-LD		RPD
Lab ID	SEI-546		SEI-546-LD		
Sample Date	3/3/2009		3/3/2009		
Date Analyzed	3/3/2009		3/3/2009		
1,1-Dichloroethene	7.4	U	7.4	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	0.74	U	0.74	U	NA
trans-1,2-Dichloroethene	7.4	U	7.4	U	NA
cis-1,2-Dichloroethene	7.4	U	7.4	U	NA
Chloroform	0.74	U	0.74	U	NA
Carbon Tetrachloride	0.74	U	0.74	U	NA
1,1,1-Trichloroethane	0.74	U	0.74	U	NA
Trichloroethene	1.3		1.2		8
Tetrachloroethene	0.74	U	0.74	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: RockA
Results Given as: ug/kg

Sample ID	CDEMDMW16119.70VOC		CDEMDMW16119.70VOC-LD		RPD
Lab ID	SEI-73		SEI-73-LD		
Sample Date	1/27/2009		1/27/2009		
Date Analyzed	1/28/2009		1/28/2009		
1,1-Dichloroethene	11	U	11	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	1.1	U	1.1	U	NA
trans-1,2-Dichloroethene	11	U	11	U	NA
cis-1,2-Dichloroethene	62		62		0
Chloroform	1.1	U	1.1	U	NA
Carbon Tetrachloride	1.1	U	1.1	U	NA
1,1,1-Trichloroethane	1.1	U	1.1	U	NA
Trichloroethene	190		180		5
Tetrachloroethene	1.1	U	1.1	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: RockA
Results Given as: ug/kg

Sample ID	CDEMDMW16128.40VOC		CDEMDMW16128.40VOC-LD		RPD
Lab ID	SEI-79		SEI-79-LD		
Sample Date	1/28/2009		1/28/2009		
Date Analyzed	1/28/2009		1/28/2009		
1,1-Dichloroethene	8.1	U	8.1	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	0.81	U	0.81	U	NA
trans-1,2-Dichloroethene	8.1	U	8.1	U	NA
cis-1,2-Dichloroethene	58		58		0
Chloroform	0.81	U	0.81	U	NA
Carbon Tetrachloride	0.81	U	0.81	U	NA
1,1,1-Trichloroethane	0.81	U	0.81	U	NA
Trichloroethene	160		160		0
Tetrachloroethene	0.84		0.86		2

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: 6520-RockA
Results Given as: ug/kg

Sample ID	CDEMDMW16204.70VOC		CDEMDMW16204.70VOC-LD		RPD
Lab ID	SEI-125		SEI-125-LD		
Sample Date	1/30/2009		1/30/2009		
Date Analyzed	2/2/2009		2/3/2009		
1,1-Dichloroethene	8.7	U	8.7	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	0.87	U	0.87	U	NA
trans-1,2-Dichloroethene	8.7	U	8.7	U	NA
cis-1,2-Dichloroethene	8.7	U	8.7	U	NA
Chloroform	0.87	U	0.87	U	NA
Carbon Tetrachloride	0.87	U	0.87	U	NA
1,1,1-Trichloroethane	0.87	U	0.87	U	NA
Trichloroethene	13		13		0
Tetrachloroethene	0.87	U	0.87	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: 6520-RockA
Results Given as: ug/kg

Sample ID	CDEMDMW16251.50VOC		CDEMDMW16251.50VOC-LD		RPD
Lab ID	SEI-149		SEI-149-LD		
Sample Date	2/2/2009		2/2/2009		
Date Analyzed	2/3/2009		2/3/2009		
1,1-Dichloroethene	10.0	U	10.0	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	1.00	U	1.00	U	NA
trans-1,2-Dichloroethene	10.0	U	10.0	U	NA
cis-1,2-Dichloroethene	10.0	U	10.0	U	NA
Chloroform	1.00	U	1.00	U	NA
Carbon Tetrachloride	1.00	U	1.00	U	NA
1,1,1-Trichloroethane	1.00	U	1.00	U	NA
Trichloroethene	7.8		8.1		4
Tetrachloroethene	1.00	U	1.00	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: 6520-RockA

Results Given as: ug/kg

Sample ID	CDEMDMW20341.20VOC		CDEMDMW20341.20VOC-LD		RPD
Lab ID	SEI-396		SEI-396-LD		
Sample Date	2/19/2009		2/19/2009		
Date Analyzed	2/19/2009		2/20/2009		
1,1-Dichloroethene	10	U	10	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	1.0	U	1.0	U	NA
trans-1,2-Dichloroethene	10	U	10	U	NA
cis-1,2-Dichloroethene	10	U	10	U	NA
Chloroform	1.0	U	1.0	U	NA
Carbon Tetrachloride	1.0	U	1.0	U	NA
1,1,1-Trichloroethane	1.0	U	1.0	U	NA
Trichloroethene	14		13		7
Tetrachloroethene	1.0	U	1.0	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: 6520-RockA
Results Given as: ug/kg

Sample ID	CDEMDMW20344.20VOC		CDEMDMW20344.20VOC-LD		RPD
Lab ID	SEI-397		SEI-397-LD		
Sample Date	2/19/2009		2/19/2009		
Date Analyzed	2/19/2009		2/20/2009		
1,1-Dichloroethene	12	U	12	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	1.2	U	1.2	U	NA
trans-1,2-Dichloroethene	12	U	12	U	NA
cis-1,2-Dichloroethene	12	U	12	U	NA
Chloroform	2.4		1.2	U	NA
Carbon Tetrachloride	1.2	U	1.2	U	NA
1,1,1-Trichloroethane	1.2	U	1.2	U	NA
Trichloroethene	11		11		0
Tetrachloroethene	1.2	U	1.2	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: 6520-RockA
Results Given as: ug/kg

Sample ID	CDEMDMW20345.70VOC		CDEMDMW20345.70VOC-LD		RPD
Lab ID	SEI-398		SEI-398-LD		
Sample Date	2/19/2009		2/19/2009		
Date Analyzed	2/19/2009		2/20/2009		
1,1-Dichloroethene	11	U	11	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	1.1	U	1.1	U	NA
trans-1,2-Dichloroethene	11	U	11	U	NA
cis-1,2-Dichloroethene	11	U	11	U	NA
Chloroform	1.1	U	1.1	U	NA
Carbon Tetrachloride	1.1	U	1.1	U	NA
1,1,1-Trichloroethane	1.1	U	1.1	U	NA
Trichloroethene	21		20		5
Tetrachloroethene	1.1	U	1.1	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

Laboratory Duplicate Analyses Summary

Stone Environmental Project Number: 082130

Test Method: 6520-RockA
Results Given as: ug/kg

Sample ID	CDEMDMW20357.00VOC		CDEMDMW20357.00VOC-LD		RPD
Lab ID	SEI-406		SEI-406-LD		
Sample Date	2/20/2009		2/20/2009		
Date Analyzed	2/20/2009		2/24/2009		
1,1-Dichloroethene	6.9	U	6.9	U	NA
1,1,2-Trichloro-1,2,2-trifluoroeth	0.69	U	0.69	U	NA
trans-1,2-Dichloroethene	6.9	U	6.9	U	NA
cis-1,2-Dichloroethene	6.9	U	6.9	U	NA
Chloroform	0.69	U	0.69	U	NA
Carbon Tetrachloride	0.69	U	0.69	U	NA
1,1,1-Trichloroethane	0.69	U	0.69	U	NA
Trichloroethene	0.66	J	0.60	J	10
Tetrachloroethene	0.69	U	0.69	U	NA

QC Limits: Water RPD < 30%; Soil RPD < 50%
U = Not detected above the specified reporting limit.
J = Estimated value.
E = Estimated value, marginally above the calibration levels.
NA = Not applicable.

APPENDIX C: PHYSICAL PROPERTY–ANALYTICAL REPORT

April 9, 2009

Project No. 09-1116-0003
082130-R

Mr. Mike Rossi
Stone Environmental Inc.
535 Stone Cutters Way
Montpelier Vermont
05602
United States

RE: GEOTECHNICAL LABORATORY TESTING

Dear Sir

This letter reports the results of laboratory testing carried out on the samples received at our office in Mississauga. The results of the tests are summarized in the following tables.

We trust that the results are sufficient for your current requirements. If you have any questions, please do not hesitate to call us.

GOLDER ASSOCIATES LTD.

Marijana Manojlovic
Laboratory Manager

MM/lg

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R2-0017042

TABLE 1
DENSITY AND POROSITY DETERMINATIONS OF IRREGULAR SHAPE SAMPLES
ASTM D 4531-86 TEST METHOD B

Sample Number	CDEMDMW16043.50PHY	CDEMDMW16063.00PHY	CDEMDMW16083.00PHY	CDEMDMW16103.10PHY
Wet Mass of Soil in Air, g	324.14	434.20	429.80	631.65
Wet Mass of Soil + Wax in Air, g	337.66	445.50	445.55	653.90
Wet Mass of Soil + Wax in Water, g	196.89	260.52	260.30	383.02
Weight of Wax, g	13.52	11.30	15.75	22.25
Displaced Volume, cm^3	140.77	184.98	185.25	270.88
Displaced Wax, cm^3	14.89	12.44	17.35	24.50
Volume of Soil, cm^3	125.88	172.54	167.90	246.38
Specific Gravity, measured	2.81	2.75	2.78	2.72
Volume of Solids, cm^3	110.70	150.52	148.80	225.02
Volume of Voids, cm^3	15.18	22.02	19.10	21.35
Porosity	0.12	0.13	0.11	0.09
Water Content, %	4.20	4.90	3.90	3.20
Unit Weight, kN/m^3	25.25	24.68	25.10	25.14
Dry Unit Weight, kN/m^3	24.23	23.53	24.16	24.36

Sample Number	CDEMDMW16129.30PHY	CDEMDMW16143.00PHY	CDEMDMW16163.30PHY	CDEMDMW16183.40PHY
Wet Mass of Soil in Air, g	759.74	635.62	691.98	406.48
Wet Mass of Soil + Wax in Air, g	779.34	652.08	712.04	421.96
Wet Mass of Soil + Wax in Water, g	468.00	392.12	425.20	251.90
Weight of Wax, g	19.60	16.46	20.06	15.48
Displaced Volume, cm^3	311.34	259.96	286.84	170.06
Displaced Wax, cm^3	21.59	18.13	22.09	17.05
Volume of Soil, cm^3	289.75	241.83	264.75	153.01
Specific Gravity, measured	2.74	2.80	2.77	2.77
Volume of Solids, cm^3	271.31	219.76	244.20	144.29
Volume of Voids, cm^3	18.45	22.08	20.55	8.72
Porosity	0.06	0.09	0.08	0.06
Water Content, %	2.20	3.30	2.30	1.70
Unit Weight, kN/m^3	25.71	25.78	25.63	26.05
Dry Unit Weight, kN/m^3	25.16	24.95	25.06	25.62

Sample Number	CDEMDMW16202.50PHY	CDEMDMW16220.00PHY	CDEMDMW16241.10PHY
Wet Mass of Soil in Air, g	332.58	681.60	672.96
Wet Mass of Soil + Wax in Air, g	345.17	700.19	692.25
Wet Mass of Soil + Wax in Water, g	202.90	424.60	414.30
Weight of Wax, g	12.59	18.59	19.29
Displaced Volume, cm^3	142.27	275.59	277.95
Displaced Wax, cm^3	13.87	20.47	21.24
Volume of Soil, cm^3	128.40	255.12	256.71
Specific Gravity, measured	2.82	2.80	2.73
Volume of Solids, cm^3	112.75	238.19	241.20
Volume of Voids, cm^3	15.65	16.93	15.51
Porosity	0.12	0.07	0.06
Water Content, %	4.60	2.20	2.20
Unit Weight, kN/m^3	25.40	26.20	25.71
Dry Unit Weight, kN/m^3	24.28	25.64	25.15

Project Number	09-1116-0003	Tested By	Larry
Date Tested	2/9/2009	Checked By	

TABLE 2
DENSITY AND POROSITY DETERMINATIONS OF IRREGULAR SHAPE SAMPLES
ASTM D 4531-86 TEST METHOD B

Sample Number	CDEMDMW14027.20PHY	CDEMDMW14049.30PHY	CDEMDMW20036.80PHY	CDEMDMW20060.90PHY
Wet Mass of Soil in Air, g	423.97	302.13	204.07	420.89
Wet Mass of Soil + Wax in Air, g	440.31	313.81	212.33	439.69
Wet Mass of Soil + Wax in Water, g	254.40	182.22	119.45	251.28
Weight of Wax, g	16.34	11.68	8.26	18.80
Displaced Volume, cm^3	185.91	131.59	92.88	188.41
Displaced Wax, cm^3	18.00	12.86	9.10	20.70
Volume of Soil, cm^3	167.91	118.73	83.78	167.71
Specific Gravity, measured	2.82	2.78	2.74	2.83
Volume of Solids, cm^3	140.51	103.41	69.48	139.91
Volume of Voids, cm^3	27.41	15.32	14.31	27.80
Porosity	0.16	0.13	0.17	0.17
Water Content, %	7.00	5.10	7.20	6.30
Unit Weight, kN/m^3	24.76	24.96	23.89	24.61
Dry Unit Weight, kN/m^3	23.14	23.74	22.28	23.15

Sample Number	CDEMDMW20085.40PHY	CDEMDMW20104.70PHY	CDEMDMW20125.35PHY	CDEMDMW20143.50PHY
Wet Mass of Soil in Air, g	315.13	395.24	404.13	562.81
Wet Mass of Soil + Wax in Air, g	326.06	411.92	417.53	581.07
Wet Mass of Soil + Wax in Water, g	193.11	241.78	248.58	344.20
Weight of Wax, g	10.93	16.68	13.40	18.26
Displaced Volume, cm^3	132.95	170.14	168.95	236.87
Displaced Wax, cm^3	12.04	18.37	14.76	20.11
Volume of Soil, cm^3	120.91	151.77	154.19	216.76
Specific Gravity, measured	2.82	2.85	2.79	2.82
Volume of Solids, cm^3	107.55	132.08	139.55	190.80
Volume of Voids, cm^3	13.36	19.69	14.65	25.96
Porosity	0.11	0.13	0.09	0.12
Water Content, %	3.90	5.00	3.80	4.60
Unit Weight, kN/m^3	25.56	25.54	25.70	25.46
Dry Unit Weight, kN/m^3	24.60	24.32	24.76	24.34

Sample Number	CDEMDMW20165.40PHY	CDEMDMW20186.60PHY	CDEMDMW20225.60PHY	CDEMDMW20204.40PHY
Wet Mass of Soil in Air, g	313.87	394.20	490.29	336.20
Wet Mass of Soil + Wax in Air, g	325.26	408.69	502.87	355.93
Wet Mass of Soil + Wax in Water, g	193.74	240.42	301.12	206.46
Weight of Wax, g	11.39	14.49	12.58	19.73
Displaced Volume, cm^3	131.52	168.27	201.75	149.47
Displaced Wax, cm^3	12.54	15.96	13.85	21.73
Volume of Soil, cm^3	118.98	152.31	187.90	127.74
Specific Gravity, measured	2.83	2.75	2.81	2.78
Volume of Solids, cm^3	107.16	137.96	168.74	117.07
Volume of Voids, cm^3	11.82	14.35	19.15	10.67
Porosity	0.10	0.09	0.10	0.08
Water Content, %	3.50	3.90	3.40	3.30
Unit Weight, kN/m^3	25.87	25.38	25.59	25.81
Dry Unit Weight, kN/m^3	25.00	24.43	24.75	24.99

Project Number	09-1116-0003	Tested By	Larry
Date Tested	2/26/2009	Checked By	

TABLE 3
DENSITY AND POROSITY DETERMINATIONS OF IRREGULAR SHAPE SAMPLES
ASTM D 4531-86 TEST METHOD B

Sample Number	CDEMDMW20246.20PHY	CDEMDMW20FD001PHY	CDEMDMW20267.70PHY	CDEMDMW20287.70PHY
Wet Mass of Soil in Air, g	262.49	218.08	163.57	205.45
Wet Mass of Soil + Wax in Air, g	277.89	228.81	169.81	212.90
Wet Mass of Soil + Wax in Water, g	161.32	134.04	98.73	126.45
Weight of Wax, g	15.40	10.73	6.24	7.45
Displaced Volume, cm^3	116.57	94.77	71.08	86.45
Displaced Wax, cm^3	16.96	11.82	6.87	8.20
Volume of Soil, cm^3	99.61	82.95	64.21	78.25
Specific Gravity, measured	2.80	2.80	2.76	2.78
Volume of Solids, cm^3	91.10	75.11	57.04	71.89
Volume of Voids, cm^3	8.51	7.85	7.17	6.36
Porosity	0.09	0.09	0.11	0.08
Water Content, %	2.90	3.70	3.90	2.80
Unit Weight, kN/m^3	25.84	25.78	24.98	25.75
Dry Unit Weight, kN/m^3	25.11	24.86	24.04	25.05

Sample Number	CDEMDMW20308.40PHY	CDEMDMW20330.00PHY	CDEMDMW20352.70PHY	CDEMDMW20368.70PHY
Wet Mass of Soil in Air, g	171.24	297.58	67.01	657.78
Wet Mass of Soil + Wax in Air, g	177.43	308.04	74.00	678.07
Wet Mass of Soil + Wax in Water, g	105.81	183.82	40.29	406.20
Weight of Wax, g	6.19	10.46	6.99	20.29
Displaced Volume, cm^3	71.62	124.22	33.71	271.87
Displaced Wax, cm^3	6.82	11.52	7.70	22.35
Volume of Soil, cm^3	64.80	112.70	26.01	249.52
Specific Gravity, measured	2.79	2.77	2.81	2.83
Volume of Solids, cm^3	59.70	104.81	23.00	225.66
Volume of Voids, cm^3	5.10	7.89	3.02	23.86
Porosity	0.08	0.07	0.12	0.10
Water Content, %	2.80	2.50	3.70	3.00
Unit Weight, kN/m^3	25.91	25.89	25.26	25.85
Dry Unit Weight, kN/m^3	25.21	25.26	24.36	25.10

Sample Number	CDEMDMW20388.40PHY	CDEMDMW20408.40PHY
Wet Mass of Soil in Air, g	381.79	276.22
Wet Mass of Soil + Wax in Air, g	397.98	288.90
Wet Mass of Soil + Wax in Water, g	234.30	170.01
Weight of Wax, g	16.19	12.68
Displaced Volume, cm^3	163.68	118.89
Displaced Wax, cm^3	17.83	13.96
Volume of Soil, cm^3	145.85	104.93
Specific Gravity, measured	2.77	2.78
Volume of Solids, cm^3	134.08	96.65
Volume of Voids, cm^3	11.77	8.27
Porosity	0.08	0.08
Water Content, %	2.80	2.80
Unit Weight, kN/m^3	25.67	25.82
Dry Unit Weight, kN/m^3	24.97	25.11

Project Number	09-1116-0003	Tested By	Larry
Date Tested	3/4/2009	Checked By	

TABLE 4
DENSITY AND POROSITY DETERMINATIONS OF IRREGULAR SHAPE SAMPLES
ASTM D 4531-86 TEST METHOD B

Sample Number	CDEMDMW14075.90PHY	CDEMDMW14093.40PHY	CDEMDMW14110.00PHY	CDEMDMW14131.00PHY
Wet Mass of Soil in Air, g	370.54	260.42	347.56	591.40
Wet Mass of Soil + Wax in Air, g	386.40	268.48	360.56	611.15
Wet Mass of Soil + Wax in Water, g	227.74	160.35	214.46	367.64
Weight of Wax, g	15.86	8.06	13.00	19.75
Displaced Volume, cm^3	158.66	108.13	146.10	243.51
Displaced Wax, cm^3	17.47	8.88	14.32	21.75
Volume of Soil, cm^3	141.19	99.25	131.78	221.76
Specific Gravity, measured	2.80	2.80	2.78	2.82
Volume of Solids, cm^3	128.61	89.95	121.50	205.81
Volume of Voids, cm^3	12.59	9.30	10.28	15.95
Porosity	0.09	0.09	0.08	0.07
Water Content, %	2.90	3.40	2.90	1.90
Unit Weight, kN/m^3	25.74	25.73	25.86	26.15
Dry Unit Weight, kN/m^3	25.01	24.88	25.13	25.67

Sample Number	CDEMDMW14151.00PHY	CDEMDMW14171.80PHY	CDEMDMW14192.00PHY	CDEMDMW14211.40PHY
Wet Mass of Soil in Air, g	321.38	401.65	167.78	343.38
Wet Mass of Soil + Wax in Air, g	333.68	414.95	176.12	361.84
Wet Mass of Soil + Wax in Water, g	198.73	249.02	102.83	209.62
Weight of Wax, g	12.30	13.30	8.34	18.46
Displaced Volume, cm^3	134.95	165.93	73.29	152.22
Displaced Wax, cm^3	13.55	14.65	9.19	20.33
Volume of Soil, cm^3	121.40	151.28	64.10	131.89
Specific Gravity, measured	2.86	2.81	2.78	2.80
Volume of Solids, cm^3	108.15	139.04	59.11	119.41
Volume of Voids, cm^3	13.25	12.24	4.99	12.48
Porosity	0.11	0.08	0.08	0.09
Water Content, %	3.90	2.80	2.10	2.70
Unit Weight, kN/m^3	25.96	26.04	25.67	25.53
Dry Unit Weight, kN/m^3	24.99	25.33	25.14	24.86

Sample Number	CDEMDMW14FD001PHY	CDEMDMW14232.50PHY
Wet Mass of Soil in Air, g	401.40	239.70
Wet Mass of Soil + Wax in Air, g	425.95	254.84
Wet Mass of Soil + Wax in Water, g	241.18	143.81
Weight of Wax, g	24.55	15.14
Displaced Volume, cm^3	184.77	111.03
Displaced Wax, cm^3	27.04	16.67
Volume of Soil, cm^3	157.73	94.36
Specific Gravity, measured	2.79	2.78
Volume of Solids, cm^3	138.07	82.83
Volume of Voids, cm^3	19.66	11.53
Porosity	0.12	0.12
Water Content, %	4.20	4.10
Unit Weight, kN/m^3	24.96	24.91
Dry Unit Weight, kN/m^3	23.95	23.93

Project Number	09-1116-0003	Tested By	Larry
Date Tested	3/23/2009	Checked By	

SPECIFIC GRAVITY TEST RESULTS

ASTM D 854-00 TEST METHOD A

PROJECT NUMBER	09-1116-0003
PROJECT NAME	Stone Environmental / Lab Testing / 082130-R
DATE	March, 2009

Sample No.	Specific Gravity
CDEMDMW16043.50PHY	2.81
CDEMDMW16063.00PHY	2.75
CDEMDMW16083.00PHY	2.78
CDEMDMW16103.10PHY	2.72
CDEMDMW16129.30PHY	2.74
CDEMDMW16143.00PHY	2.80
CDEMDMW16163.30PHY	2.77
CDEMDMW16183.40PHY	2.77
CDEMDMW16202.50PHY	2.82
CDEMDMW16220.00PHY	2.80
CDEMDMW16241.10PHY	2.73
CDEMDMW14027.20PHY	2.82
CDEMDMW14049.30PHY	2.78
CDEMDMW20036.80PHY	2.74
CDEMDMW20060.90PHY	2.83
CDEMDMW20085.40PHY	2.82
CDEMDMW20104.70PHY	2.85
CDEMDMW20125.35PHY	2.79
CDEMDMW20143.50PHY	2.82
CDEMDMW20165.40PHY	2.83
CDEMDMW20186.60PHY	2.75
CDEMDMW20225.60PHY	2.81
CDEMDMW20204.40PHY	2.78
CDEMDMW20246.20PHY	2.80

Checked By: GL

Golder Associates

SPECIFIC GRAVITY TEST RESULTS

ASTM D 854-00 TEST METHOD A

PROJECT NUMBER	09-1116-0003
PROJECT NAME	Stone Environmental / Lab Testing / 082130-R
DATE	March, 2009

Sample No.	Specific Gravity
CDEMDMW20FD001PHY	2.80
CDEMDMW20267.70PHY	2.76
CDEMDMW20287.70PHY	2.78
CDEMDMW20308.40PHY	2.79
CDEMDMW20330.00PHY	2.77
CDEMDMW20352.70PHY	2.81
CDEMDMW20368.70PHY	2.83
CDEMDMW20388.40PHY	2.77
CDEMDMW20408.40PHY	2.78
CDEMDMW14075.90PHY	2.80
CDEMDMW14093.40PHY	2.80
CDEMDMW14110.00PHY	2.78
CDEMDMW14131.00PHY	2.82
CDEMDMW14151.00PHY	2.86
CDEMDMW14171.80PHY	2.81
CDEMDMW14192.00PHY	2.78
CDEMDMW14211.40PHY	2.80
CDEMDMW14FD001PHY	2.79
CDEMDMW14232.50PHY	2.78

Note: Test carried out on soil particles <4.75mm using distilled water.

Checked By: MM

Golder Associates

TABLE 1

SUMMARY OF WATER CONTENT DETERMINATIONS

ASTM D 2216-98

PROJECT NUMBER	09-1116-0003
PROJECT NAME	Stone Environmental / Lab Testing / 082130-R
DATE	March, 2009

Sample No.	Water Content (%)	Atterberg Limits LL, PL, PI
CDEMDMW16043.50PHY	4.2%	
CDEMDMW16063.00PHY	4.9%	
CDEMDMW16083.00PHY	3.9%	
CDEMDMW16103.10PHY	3.2%	
CDEMDMW16129.30PHY	2.2%	
CDEMDMW16143.00PHY	3.3%	
CDEMDMW16163.30PHY	2.3%	
CDEMDMW16183.40PHY	1.7%	
CDEMDMW16202.50PHY	4.6%	
CDEMDMW16220.00PHY	2.2%	
CDEMDMW16241.10PHY	2.2%	
CDEMDMW14027.20PHY	7.0%	
CDEMDMW14049.30PHY	5.1%	
CDEMDMW20036.80PHY	7.2%	
CDEMDMW20060.90PHY	6.3%	
CDEMDMW20085.40PHY	3.9%	
CDEMDMW20104.70PHY	5.0%	
CDEMDMW20125.35PHY	3.8%	
CDEMDMW20143.50PHY	4.6%	
CDEMDMW20165.40PHY	3.5%	
CDEMDMW20186.60PHY	3.9%	
CDEMDMW20225.60PHY	3.4%	
CDEMDMW20204.40PHY	3.3%	
CDEMDMW20246.20PHY	2.9%	
CDEMDMW20FD001PHY	3.7%	
CDEMDMW20267.70PHY	3.9%	
CDEMDMW20287.70PHY	2.8%	
CDEMDMW20308.40PHY	2.8%	
CDEMDMW20330.00PHY	2.5%	
CDEMDMW20352.70PHY	3.7%	
CDEMDMW20368.70PHY	3.0%	
CDEMDMW20388.40PHY	2.8%	
CDEMDMW20408.40PHY	2.8%	

Checked by

Golder Associates

TABLE 1

SUMMARY OF WATER CONTENT DETERMINATIONS

ASTM D 2216-98

PROJECT NUMBER	09-1116-0003
PROJECT NAME	Stone Environmental / Lab Testing / 082130-R
DATE	March, 2009

Sample No.	Water Content (%)	Atterberg Limits LL, PL, PI
CDEMDMW14075.90PHY	2.9%	
CDEMDMW14093.40PHY	3.4%	
CDEMDMW14110.00PHY	2.9%	
CDEMDMW14131.00PHY	1.9%	
CDEMDMW14151.00PHY	3.9%	
CDEMDMW14171.80PHY	2.8%	
CDEMDMW14192.00PHY	2.1%	
CDEMDMW14211.40PHY	2.7%	
CDEMDMW14FD001PHY	4.2%	
CDEMDMW14232.50PHY	4.1%	

Checked by

Golder Associates

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CDEMDMW16034.00TOC		
Lab Sample ID:	JA10537-1	**Date Sampled:**	01/22/09
Matrix:	SO - Soil	**Date Received:**	01/23/09
		Percent Solids:	96.7
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.7		%	1	02/06/09	SC	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/03/09 11:00	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CDEMDMW1 6063.10TOC		
Lab Sample ID:	JA10717-1	**Date Sampled:**	01/23/09
Matrix:	SO - Solid	**Date Received:**	01/27/09
		Percent Solids:	96.6
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.6		%	1	02/11/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/03/09 11:15	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW1 6083-20TOC		
Lab Sample ID:	JA10717-2	**Date Sampled:**	01/26/09
Matrix:	SO - Solid	**Date Received:**	01/27/09
		Percent Solids:	95.1
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95.1		%	1	02/11/09	DD	SM18 2540G
Total Organic Carbon	115	110	mg/kg	1	02/03/09 12:22	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW1 6103.10TOC		
Lab Sample ID:	JA10717-3	**Date Sampled:**	01/27/09
Matrix:	SO - Solid	**Date Received:**	01/27/09
		Percent Solids:	97.2
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.2		%	1	02/11/09	DD	SM18 2540G
Total Organic Carbon	166	100	mg/kg	1	02/03/09 12:32	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CDEMDMW1 6129.30TOC		
Lab Sample ID:	JA10944-1	**Date Sampled:**	01/28/09
Matrix:	SO - Solid	**Date Received:**	01/30/09
		Percent Solids:	97.6
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.6		%	1	02/11/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/06/09 12:43	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW1 6143.00TOC		
Lab Sample ID:	JA10944-2	**Date Sampled:**	01/28/09
Matrix:	SO - Solid	**Date Received:**	01/30/09
		Percent Solids:	95.4
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95.4		%	1	02/11/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/06/09 13:01	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW1 6153.30TOC		
Lab Sample ID:	JA10944-3	**Date Sampled:**	01/29/09
Matrix:	SO - Solid	**Date Received:**	01/30/09
		Percent Solids:	96.7
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.7		%	1	02/11/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/06/09 13:19	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW1 6183.40TOC		
Lab Sample ID:	JA10944-4	**Date Sampled:**	01/29/09
Matrix:	SO - Solid	**Date Received:**	01/30/09
		Percent Solids:	96.5
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.5		%	1	02/11/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/06/09 13:28	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW1 6202.50TOC		
Lab Sample ID:	JA10944-5	**Date Sampled:**	01/30/09
Matrix:	SO - Solid	**Date Received:**	01/30/09
		Percent Solids:	96.2
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.2		%	1	02/12/09	SP	SM18 2540G
Total Organic Carbon	171	100	mg/kg	1	02/06/09 13:51	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CDEMDMW1 6220.00TOC		
Lab Sample ID:	JA11205-1	**Date Sampled:**	01/30/09
Matrix:	SO - Solid	**Date Received:**	02/03/09
		Percent Solids:	97.3
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.3		%	1	02/13/09	SC	SM18 2540G
Total Organic Carbon [a]	2000	100	mg/kg	1	02/06/09 14:11	SJG	LLOYD KAHN 1988

(a) Multiple injections indicate possible sample non-homogeneity.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW1 6241.10TOC		
Lab Sample ID:	JA11205-2	**Date Sampled:**	02/02/09
Matrix:	SO - Solid	**Date Received:**	02/03/09
		Percent Solids:	97.9
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.9		%	1	02/13/09	SC	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/06/09 14:57	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CDEMDMW1 4027.20TOC		
Lab Sample ID:	JA11680-1	**Date Sampled:**	02/05/09
Matrix:	SO - Solid	**Date Received:**	02/09/09
		Percent Solids:	93.8
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.8		%	1	02/16/09	SP	SM18 2540G
Total Organic Carbon	< 110	110	mg/kg	1	02/17/09 12:35	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW1 4049.30TOC		
Lab Sample ID:	JA11680-2	**Date Sampled:**	02/06/09
Matrix:	SO - Solid	**Date Received:**	02/09/09
		Percent Solids:	96.4
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.4		%	1	02/16/09	SP	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/17/09 12:47	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CDEMDMW20036.80		
Lab Sample ID:	JA12092-1	**Date Sampled:**	02/09/09
Matrix:	SO - Solid	**Date Received:**	02/13/09
		Percent Solids:	95.7
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95.7		%	1	02/18/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/17/09 13:12	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20061.35		
Lab Sample ID:	JA12092-2	**Date Sampled:**	02/10/09
Matrix:	SO - Solid	**Date Received:**	02/13/09
		Percent Solids:	95.6
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95.6		%	1	02/18/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/17/09 13:23	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20104.70		
Lab Sample ID:	JA12092-3	**Date Sampled:**	02/11/09
Matrix:	SO - Solid	**Date Received:**	02/13/09
		Percent Solids:	96.1
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.1		%	1	02/18/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/17/09 13:32	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20125.75		
Lab Sample ID:	JA12092-4	**Date Sampled:**	02/11/09
Matrix:	SO - Solid	**Date Received:**	02/13/09
		Percent Solids:	93.8
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.8		%	1	02/18/09	DD	SM18 2540G
Total Organic Carbon	< 110	110	mg/kg	1	02/17/09 13:43	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20085.70		
Lab Sample ID:	JA12092-5	**Date Sampled:**	02/11/09
Matrix:	SO - Solid	**Date Received:**	02/13/09
		Percent Solids:	96.2
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.2		%	1	02/18/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/17/09 13:53	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20144.00		
Lab Sample ID:	JA12092-6	**Date Sampled:**	02/12/09
Matrix:	SO - Solid	**Date Received:**	02/13/09
		Percent Solids:	95.6
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95.6		%	1	02/18/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/17/09 14:05	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20186.60		
Lab Sample ID:	JA12092-7	**Date Sampled:**	02/12/09
Matrix:	SO - Solid	**Date Received:**	02/13/09
		Percent Solids:	95.5
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95.5		%	1	02/18/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/17/09 14:33	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CDEMDMW20165.75		
Lab Sample ID:	JA12468-1	**Date Sampled:**	02/12/09
Matrix:	SO - Solid	**Date Received:**	02/19/09
		Percent Solids:	96.9
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.9		%	1	02/20/09	MS	SM18 2540G
Total Organic Carbon	241	100	mg/kg	1	02/26/09 14:07	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20FD001		
Lab Sample ID:	JA12468-2	**Date Sampled:**	02/13/09
Matrix:	SO - Solid	**Date Received:**	02/19/09
		Percent Solids:	96.2
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.2		%	1	02/20/09	MS	SM18 2540G
Total Organic Carbon	209	100	mg/kg	1	02/26/09 14:20	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20204.40		
Lab Sample ID:	JA12468-3	**Date Sampled:**	02/13/09
Matrix:	SO - Solid	**Date Received:**	02/19/09
		Percent Solids:	95.9
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95.9		%	1	02/20/09	MS	SM18 2540G
Total Organic Carbon [a]	287	100	mg/kg	1	02/26/09 14:56	SJG	LLOYD KAHN 1988

(a) Multiple injections indicate possible sample non-homogeneity.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20226.30		
Lab Sample ID:	JA12468-4	**Date Sampled:**	02/13/09
Matrix:	SO - Solid	**Date Received:**	02/19/09
		Percent Solids:	96.4
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.4		%	1	02/20/09	MS	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/26/09 15:23	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20246.20		
Lab Sample ID:	JA12468-5	**Date Sampled:**	02/16/09
Matrix:	SO - Solid	**Date Received:**	02/19/09
		Percent Solids:	96.4
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.4		%	1	02/20/09	MS	SM18 2540G
Total Organic Carbon	157	100	mg/kg	1	02/26/09 15:34	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20FD002		
Lab Sample ID:	JA12468-6	**Date Sampled:**	02/16/09
Matrix:	SO - Solid	**Date Received:**	02/19/09
		Percent Solids:	96.1
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.1		%	1	02/20/09	MS	SM18 2540G
Total Organic Carbon	133	100	mg/kg	1	02/26/09 15:49	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20267.70		
Lab Sample ID:	JA12468-7	**Date Sampled:**	02/17/09
Matrix:	SO - Solid	**Date Received:**	02/19/09
		Percent Solids:	92.6
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	92.6		%	1	02/20/09	MS	SM18 2540G
Total Organic Carbon	< 110	110	mg/kg	1	02/26/09 16:45	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20287.70		
Lab Sample ID:	JA12468-8	**Date Sampled:**	02/18/09
Matrix:	SO - Solid	**Date Received:**	02/19/09
		Percent Solids:	93.7
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.7		%	1	02/20/09	MS	SM18 2540G
Total Organic Carbon	< 110	110	mg/kg	1	02/26/09 17:28	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20308.40		
Lab Sample ID:	JA12468-9	**Date Sampled:**	02/18/09
Matrix:	SO - Solid	**Date Received:**	02/19/09
		Percent Solids:	97.5
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.5		%	1	02/20/09	MS	SM18 2540G
Total Organic Carbon	129	100	mg/kg	1	02/26/09 18:57	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20330.00		
Lab Sample ID:	JA12468-10	**Date Sampled:**	02/19/09
Matrix:	SO - Solid	**Date Received:**	02/19/09
		Percent Solids:	97.5
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.5		%	1	02/20/09	MS	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/26/09 19:33	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CDEMDMW20368.70		
Lab Sample ID:	JA12766-1	**Date Sampled:**	02/20/09
Matrix:	SO - Solid	**Date Received:**	02/24/09
		Percent Solids:	97.8
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.8		%	1	02/25/09	DD	SM18 2540G
Total Organic Carbon	199	100	mg/kg	1	02/26/09 19:49	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20388.40		
Lab Sample ID:	JA12766-2	**Date Sampled:**	02/23/09
Matrix:	SO - Solid	**Date Received:**	02/24/09
		Percent Solids:	94.9
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	94.9		%	1	02/25/09	DD	SM18 2540G
Total Organic Carbon	122	110	mg/kg	1	02/26/09 20:33	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW20408.40		
Lab Sample ID:	JA12766-3	**Date Sampled:**	02/23/09
Matrix:	SO - Solid	**Date Received:**	02/24/09
		Percent Solids:	97.4
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.4		%	1	02/25/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	02/26/09 21:00	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CDEMDMW14076.20TOC		
Lab Sample ID:	JA13079-1	**Date Sampled:**	02/25/09
Matrix:	SO - Soil	**Date Received:**	02/27/09
		Percent Solids:	93.3
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	93.3		%	1	03/04/09	DD	SM18 2540G
Total Organic Carbon	332	110	mg/kg	1	03/07/09 12:23	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW14093.40TOC		
Lab Sample ID:	JA13079-2	**Date Sampled:**	02/25/09
Matrix:	SO - Soil	**Date Received:**	02/27/09
		Percent Solids:	96.7
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.7		%	1	03/04/09	DD	SM18 2540G
Total Organic Carbon	247	100	mg/kg	1	03/07/09 10:55	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW14110.00TOC		
Lab Sample ID:	JA13079-3	**Date Sampled:**	02/25/09
Matrix:	SO - Soil	**Date Received:**	02/27/09
		Percent Solids:	96.7
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.7		%	1	03/04/09	DD	SM18 2540G
Total Organic Carbon	227	100	mg/kg	1	03/07/09 11:05	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW14131.00TOC		
Lab Sample ID:	JA13079-4	**Date Sampled:**	02/26/09
Matrix:	SO - Soil	**Date Received:**	02/27/09
		Percent Solids:	97.7
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.7		%	1	03/04/09	DD	SM18 2540G
Total Organic Carbon	< 100	100	mg/kg	1	03/07/09 11:14	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW14151.10TOC		
Lab Sample ID:	JA13079-5	**Date Sampled:**	02/26/09
Matrix:	SO - Soil	**Date Received:**	02/27/09
		Percent Solids:	96.9
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.9		%	1	03/04/09	DD	SM18 2540G
Total Organic Carbon	146	100	mg/kg	1	03/07/09 11:24	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW14171.80TOC		
Lab Sample ID:	JA13079-6	**Date Sampled:**	02/27/09
Matrix:	SO - Soil	**Date Received:**	02/27/09
		Percent Solids:	96.2
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96.2		%	1	03/04/09	DD	SM18 2540G
Total Organic Carbon	148	100	mg/kg	1	03/07/09 11:35	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CDEMDMW14192.00TOC		
Lab Sample ID:	JA13330-3	**Date Sampled:**	03/02/09
Matrix:	SO - Solid	**Date Received:**	03/04/09
		Percent Solids:	97.6
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	97.6		%	1	03/13/09	DD	SM18 2540G
Total Organic Carbon	177	100	mg/kg	1	03/12/09 11:05	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW14211.40TOC		
Lab Sample ID:	JA13330-4	**Date Sampled:**	03/02/09
Matrix:	SO - Solid	**Date Received:**	03/04/09
		Percent Solids:	96.0
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	96		%	1	03/13/09	DD	SM18 2540G
Total Organic Carbon	164	100	mg/kg	1	03/12/09 11:14	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW14232.50TOC		
Lab Sample ID:	JA13330-5	**Date Sampled:**	03/03/09
Matrix:	SO - Solid	**Date Received:**	03/04/09
		Percent Solids:	95.6
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	95.6		%	1	03/13/09	DD	SM18 2540G
Total Organic Carbon	153	100	mg/kg	1	03/12/09 11:23	SJG	LLOYD KAHN 1988

RL = Reporting Limit

Report of Analysis

Client Sample ID:	CDEMDMW14FD001TOC		
Lab Sample ID:	JA13330-6	**Date Sampled:**	03/03/09
Matrix:	SO - Solid	**Date Received:**	03/04/09
		Percent Solids:	90.5
Project:	Cornell-Dubilier Electronics Superfund Site, South Plainfield, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Solids, Percent	90.5		%	1	03/13/09	DD	SM18 2540G
Total Organic Carbon	153	110	mg/kg	1	03/12/09 11:32	SJG	LLOYD KAHN 1988

RL = Reporting Limit

APPENDIX F

Borehole Geophysics Logging Report
Cornell-Dubilier Electronics
Superfund Site
South Plainfield, New Jersey

Prepared for
MALCOLM PIRNIE, INC.
July 2009

Geophysical Applications

GEOPHYSICAL APPLICATIONS INCORPORATED

July 3, 2009

Ms. Janis Karn
MALCOLM PIRNIE, INC.
17-17 Route 208 North, 2nd floor
Fair Lawn, NJ 07410

Subject: Borehole Geophysics Logging Report
Cornell-Dubilier Electronics
Superfund Site
South Plainfield, New Jersey

phone: 201-398-4652
email: ehunnewell@Langan.com

Dear Ms. Karn:

This report describes borehole geophysics logging performed by Geophysical Applications, Inc. at the above-noted site, to help Malcolm Pirnie identify and characterize hydraulically-active zones encountered by thirteen monitoring wells. Fieldwork was performed between May 27 and June 4, 2009.

Twelve of the logged wells were uncased bedrock monitoring wells. One of the logged wells was a former production (supply) well that has remained uncased since it was drilled in the 1950's.

The contracted log suite included the following parameters: fluid temperature, fluid resistivity, caliper, acoustic televiewer, and heat-pulse flowmeter. The flowmeter testing was performed during both ambient and pumping conditions. This logging project was completed using two sets of instrumentation, operated independently by two operators, to halve the duration of our fieldwork.

METHODS OF INVESTIGATION

Survey Control

All borehole log depths were referenced to the top of casing at each well. The geophysical logging winches contain optical depth encoders, to maintain depth measurements accurate within approximately ± 0.2 feet throughout a borehole.

Borehole Geophysics Logging

Mount Sopris model 4MXA and 4MXB logging winches and two Mount Sopris caliper probes obtained most of the conventional geophysical-log data. These logs were recorded at 0.1-foot depth increments, as determined by the logging winch's digital depth encoder.

Fluid temperature (FTemp) and fluid resistivity (FRes) logs were recorded during the first logging run at each borehole, using downward logging speeds of approximately five to eight feet per minute, to help identify subtle variations in those fluid properties. The higher logging speeds were utilized only in the deepest boreholes. A sub-assembly on the bottom of the caliper probe

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obtained these fluid measurements. Caliper logging was subsequently performed while pulling that probe upwards through each borehole at approximately 10 to 12 feet per minute.

Acoustic televiewer (ATV) data were obtained in the uncased boreholes using an Advanced Logic Technologies (ALT) model ABI40 or FAC40 acoustic televiewer probe, with a Mount Sopris winch and either an ALT model Abox or Mount Sopris MGX-II electronics console. ATV data were recorded at 0.01- or 0.011-foot depth intervals, with 1.25-degree arc-segments for each 360-degree scan around the borehole wall, at a logging speed of approximately 3 to 6 feet per minute.

A pair of centralizer assemblies positioned the ABI or FAC40 probe near the middle of each borehole. Each centralizer included four stainless-steel bow springs, clamped to the probe housing with brass compression fittings, at positions recommended by the probe manufacturer to minimize the risk of interference with the probe's internal three-component magnetometers. The centralizers were adjusted to accommodate the actual uncased borehole diameter.

Flowmeter data were recorded with two Mount Sopris heat-pulse flowmeter probes, at specific depths inferred from field plots of the caliper, FRes, FTemp, and ABI logs. Flowmeter data were initially recorded under ambient conditions. The same test depths were subsequently repeated while pumping each well with a variable-speed Fultz pump.

A homemade 10-inch diverter petal (cut from the lid of a new 5-gallon plastic pail), was utilized for flowmeter testing at the production well (the probe manufacturer does not currently sell 10-inch diameter diverter petals). Commercially-available diverter petals were used at the other twelve boreholes, and commercially-available centralizers were utilized at all logged wells.

Flowmeter data reported by the manufacturer's software were normalized using multipliers that ranged between ___ to ___, to adjust for the flowmeter probes' typical response in a six-inch (or larger) borehole (the probe manufacturer calibrates these devices in a four-inch pipe).

All geophysical log data were recorded on a laptop computer's hard drive, and copied to CD-ROM daily as a backup precaution.

Post-survey plot scales were adjusted to display as much detail as possible. All conventional logs and flowmeter data were merged onto one plot, to aid data correlation. Televiewer logs are presented on separate pages, at enlarged vertical scales, for clarity.

Equipment Decontamination Procedures

Decontamination consisted of an Alconox scrub, and tap water and distilled water rinses of probes between logging runs. The logging cable was scrubbed with an Alconox solution and rinsed with tap water as it was spooled onto a winch drum, during all logging runs.

SURVEY LIMITATIONS

Measured geophysical-log depths are estimated to be accurate within ± 0.2 feet at this site, allowing for some slippage of the winch's depth-measurement wheel.

The caliper-probe's arms can measure borehole diameters up to approximately 17 inches. Caliper logs can most-confidently detect fractures that cross a borehole at moderate angles, e.g. less than approximately 70 degrees from horizontal. Caliper logs may not accurately detect near-vertical fractures.

The heat-pulse flowmeter probe can typically measure water flow rates between 0.02 and approximately 1.2 gallons per minute (gpm). Higher flow rates may be erroneously characterized as zero flow by this probe, when it is fitted with diverter petals and centralizers that contact the uncased borehole wall. The maximum flow rate that could be measured at the production well was considerably higher than normal, due to that well's approximately 10-inch nominal.

Hydraulically-active fracture zones were inferred by correlating numerous geophysical logs. These interpretations are a subjective judgment based upon available data.

The acoustic televiewer probes rely on a three-component magnetometer to orient the recorded images with respect to magnetic north. These images become distorted when the magnetometers approach the bottom of steel casing, typically beginning approximately 4 feet below the steel. A short length of the unoriented televiewer images, rotated to match a distinctive feature on the borehole wall, overlay the magnetically distorted portions of televiewer log plots presented in this report. Down-dip azimuths of planar features inferred from televiewer logs a few feet below a steel casing are therefore approximate.

RESULTS

Geophysical log data and generalized log interpretations are described below. Specific interpretations regarding hydraulically-active depths are listed in the "comments" column on each conventional log plot.

All geophysical logs described in this report are presented in Appendix A. Summary televiewer interpretations are provided in Appendix B. These televiewer-interpretation tables are Excel spreadsheets, listing observed feature depths, down-dip compass directions for each inferred feature (note that this is perpendicular to the strike direction), feature dip angles with respect to horizontal, and whether an inferred feature was judged to be relatively open or less-open.

Caliper logs are presented in the left-most conventional log-plot column. Inflections to the right indicate borehole enlargements, for example where the drill bit passed through a fracture zone. Localized caliper inflections toward the left may represent depths where a loose piece of rock is locally reducing the borehole diameter.

Fluid temperature (FTemp) and fluid resistivity (FRes) logs are presented in the next panel of the conventional-log plots. Localized inflections or changes in slope of FTemp, FRes, or FCond logs typically represent water entering or exiting a borehole. Large inflections at the very bottom of a borehole may represent only accumulated sediments with temperature or electrical properties that contrast with the water column.

Heat-pulse flowmeter data are presented on the caliper panel (ambient flow measurements) and on the FTemp/FRes panel (flow measurements while pumping). Shaded boxes to the left of centerline on either panel represent downwards water flow, with the box length indicating the flow magnitude in gpm. Shaded boxes to the right of a panel's centerline represent upwards water flow. Filled circles represent depths where "zero" flow was observed (i.e., flow less than the probe's minimum detectable rate, typically 0.01 to 0.02 gpm). Flowmeter test depths were selected on-site using field plots of the caliper, fluid temperature, fluid resistivity, and acoustic televiewer logs. Note that the plotted flow magnitudes reported by the vendor's data-acquisition software were normalized to adjust for the actual flow rates in boreholes that were other than four inches in diameter.

Acoustic televiewer data are presented via two columns (ABI40 or FAC40 "traveltime" and "amplitude"), where each column represents a cylindrical image sliced down the north edge and laid flat on the printed page. For each column, magnetic north is at the left edge, and the plot progresses through east, south, west, and back to north at the right-hand edge.

Acoustic televiewer logs were evaluated using WellCAD's image-processing module, to measure planar-feature dip angles and down-dip azimuths. All interpreted down-dip azimuths are referenced to magnetic north. Measured feature orientations are indicated by tadpole plots, where each filled-circle indicates a feature's dip angle from horizontal (plotted on a graph that ranges between 0 and 90 degrees from left to right). Each tadpole tail points in the down-dip azimuth, assuming magnetic north is straight up on the printed page. Note that the down-dip azimuth indicated by each tadpole tail is perpendicular to the feature's strike direction.

Features represented on both of the ABI40 or FAC40 travel-time and amplitude plots are denoted as "open". Features represented only on the amplitude plots are likely to have smaller apertures (or possibly represent thin, mineral-filled joints), and are therefore judged relatively "less open". Red tadpoles, and red sine-curve lines superimposed on the acoustic televiewer plots, represent inferred "open" fractures. Black tadpoles, and black sine curves on the acoustic televiewer plots, represent interpreted "less-open" features.

Televiewer interpretations are also summarized using rose diagrams, to indicate the predominant down-dip azimuths of planar features observed in each well. These rose diagrams are presented with magnetic north oriented straight up on the printed page. Red rose diagrams represent inferred open features (e.g. fractures), and black rose diagrams represent inferred less-open features (possibly bedding or tight joints).

A stereoplot also summarizes the open and less-open feature orientations inferred from each televiewer log. Each stereoplot was prepared using an equal-angle (Schmidt) projection of the southern hemisphere.

Annotations on the conventional log plots describe interpreted hydraulically-active depths, based on correlations between all of the available log data. Selected observations that may be of particular interest are described below.

<u>MW-13</u>

This borehole's caliper log shows many small irregularities, particularly less than 130 feet deep. Distinct enlargements were also observed near 34, 75, 84, 101, 139, 162, 223, and 235 feet.

Distinct FRes and/or FTemp inflections judged likely to represent hydraulically active zones were observed near the following depths: 17, 19, 28, 63, and 71.5 feet deep. Additional minor fluid-property variations were also observed, as noted in the conventional log plot's comments column.

Ambient downward flow originated less than 12 feet deep (probably at a casing joint). Some of this downward flow exited at zones of lower hydraulic head between 46 to 57 and 69 to 77 feet deep. The remaining downward ambient flow exited at a zone of lower head between 118 to 127 feet. Weak upward ambient flow may have originated greater than 241 feet deep, and exited at a zone of lower hydraulic head between 231 to 241 feet.

Upward flow while pumping apparently originated between 231 to 241 feet deep. Some of this upward flow may have exited at a zone of lower hydraulic head between 207 to 219 feet deep. Additional inflow while pumping entered between the following depth ranges: 176 to 189, 158 to

167, 148 to 158, 118 to 127, 108 to 118, 97 to 108, 69 to 77, and 36 to 46 feet. Inflow while pumping also entered between the casing bottom and 23 feet deep. Some upward flow while pumping may also have exited at zones of lower hydraulic head between 77 to 88 and 23 to 36 feet.

Most interpreted less-open planar features (black rose diagram) dip down toward the northwest, north-northwest, northeast to north-northeast, and southeast.

Most interpreted open planar features (red rose diagram) dip down toward the west-northwest, northwest, and north-northwest. A few open planar features dip down toward the east-northeast, east-southeast, and south-southwest.

The stereoplot diagram shows a large, dense cluster of feature poles near the diagram's center, and slightly below and right of center. This cluster represents less-open planes dipping down toward the northwest, north-northwest, northeast to north-northeast, and southeast (as shown in the black rose diagram), typically at dip angles less than 35 degrees from horizontal. A group of four black poles near the middle of the stereoplot's upper left quadrant represents less-open planes that dip down toward the southeast at approximately 40 to 55 degrees from horizontal.

The gentle dip angles shown on televiewer images recorded at this well (and at all other wells logged during this survey) probably represent either bedding planes or fractures that are oriented parallel to the bedding planes. A few fractures cut steeply across these bedding planes (e.g. near 18 to 19 feet deep, immediately below the casing). A "corduroy" pattern on the televiewer images (e.g. near 64 feet deep), and either vertical or diagonal stripes (e.g. between 210 to 235 feet deep) probably represent scratches from the drilling apparatus.

<u>MW-14S</u>

This well's caliper log shows relatively minor diameter variations throughout the uncased interval.

FTemp and/or FRes inflections judged likely to represent hydraulically active zones were observed near 25.5, possibly 33 to 34, 39, possibly 43, possibly 49, possibly 53 to 55, and possibly 61 feet deep.

Weak ambient inflow entered between 35 to 42 feet deep, flowed upward, and exited at a zone of lower hydraulic head between 30 to 35 feet deep.

Inflow while pumping originated greater than 65 feet deep, and increased between 60 to 65, 46 to 52, and 30 to 35 feet deep. Some upward flow while pumping may have exited at zones of lower hydraulic head between 52 to 60 and 42 to 46 feet deep, and also between the casing bottom and 30 feet.

Interpreted less-open planar features (black rose diagram) dip down in numerous directions, including north, southwest, north-northwest, east-southeast, south-southeast, and west.

Open planar features were not observed in this borehole.

The stereoplot diagram shows most poles near the diagram's center; they mostly represent less-open planes dipping down in the azimuths listed above, at dip angles less than 20 degrees from horizontal.

MW-15S

This borehole's caliper log shows relatively few enlargements. The biggest caliper anomaly is near 37 to 39 feet deep. The slight reduction in borehole diameter near 57 feet deep probably represents a piece of loose rock that protruded from the borehole wall.

FTemp or FRes inflections judged likely to represent hydraulically active zones were inferred near the following depths: 21.5, 25, 29.5, 32 to 35, 38, 40, 45, 62, 68.5, possibly 75.5, and 81 feet deep.

Ambient inflow entered between 30.5 to 41 feet deep, flowed downward, and exited at a zone of lower hydraulic head between 70 to 80 feet deep.

Inflow while pumping originated between 80 to 90 feet deep, but most pumping inflow entered between 70 to 80 and 30.5 to 41 feet deep. Additional pumping inflow entered between 61 to 70 feet, and also between the casing bottom and 23 feet deep. Some upward flow while pumping apparently exited at zones of lower hydraulic head between 41 to 51 and 23 to 30.5 feet deep.

Most interpreted less-open planar features (black rose diagram) dip down toward the northwest, west-northwest, north-northeast, southeast, and south-southwest.

Only one open planar feature was interpreted, dipping down toward the northwest as shown on the red rose plot.

The stereoplot shows that most interpreted poles are clustered slightly below the diagram's center, representing less-open planes that dip down toward the north-northeast, north-northwest, northwest, and west-northwest, at dip angles less than 20 degrees from horizontal. A group of four black poles near the middle of the stereoplot's lower right quadrangle represent less-open planes that dip down toward the northwest and west-northwest, between 35 to 50 degrees from horizontal. Three pairs of black poles in the stereoplot's upper left quadrangle represent less-open planes that dip down toward the southeast at approximately 30, 50, and 70 degrees from horizontal, respectively.

MW-15D

This well's caliper log shows some small irregularities, with the biggest enlargement near 195 feet deep. Small, partial obstructions (probably loose pieces of rock) are indicated by the localized decreases in diameter near 157 and 184 feet.

Inflections in the FRes or FTemp logs that are judged likely to represent hydraulically active zones, were observed near the following depths: 102, possibly 110 and 113, 130, 136, 141, 170, possibly 178, possibly 181.5 to 187, 191, 195, and possibly 211 and 215 feet.

Ambient inflow was observed at only one of the flowmeter test depths. This inflow entered between 190 to 197 feet deep, flowed upward, and exited at a zone of lower hydraulic head between 181 to 190 feet deep.

Upward flow while pumping originated between 206 to 217 feet deep; most pumping inflow entered between 127 to 137 feet. Additional inflow while pumping entered between 190 to 197, 181 to 190, 175 to 181, 157 to 165, and 107 to 117 feet. Some upward pumping flow exited at zones of lower hydraulic head between 165 to 175 and 137 to 146 feet deep, and also between the casing bottom and 107 feet.

Less-open planar features were somewhat difficult to distinguish from diagonal tool marks on the borehole wall at this well. An example of these scratches is near 133 to 144 feet deep; the scratches slope gently down toward the right.

Most interpreted less-open planar features (black rose diagram) dip down toward the north-northwest, south-southeast, west-southwest, and east-northeast.

Two open planar features were interpreted at this well; they dip down toward the northeast and due south.

The stereoplot diagram shows most red and black poles plotted near the diagram's center. These poles represent open and less-open planes that dip down in the directions listed above for the black rose diagram, typically at dip angles less than 20 degrees from horizontal. A few poles represent other down-dip directions. For example, the group of three black poles located to the right and slightly above the stereoplot's center represents less-open planes dipping down toward the west-southwest between 30 to 40 degrees from horizontal.

MW-16

This well's caliper log shows small diameter variations throughout the logged depth range, and distinct enlargements near 23 to 26, 100, and 200 to 202 feet deep. Localized decreases in diameter near 177 and 198 feet deep probably represent loose rock fragments that protrude from the borehole wall.

Several distinct FRes or FTemp inflections were observed that are judged likely to represent hydraulically active zones, including near: 38, 39, 100, 110, 129, and 202 to 203 feet deep. Additional subtle fluid-log anomalies that might also represent transmissive zones are listed in the conventional log plot's comments column.

Weak ambient flow was observed at numerous depths in this well. Weak upward flow entered greater than 239 feet deep, flowed upward, and apparently exited at a zone of lower hydraulic head between 229 to 239 feet deep. Additional ambient inflow entered between 218 to 229 feet deep, and flowed upward. This upward flow increased between 203 to 209 feet; portions of this upward flow exited at zones of lower head between 193 to 203, 142 to 153, and 126 to 135 feet deep.

Additional upward ambient inflow entered between 122 to 126 and 102 to 112 feet deep; portions of this upward flow exited at zones of lower head between 112 to 122 and 91 to 102 feet.

Ambient inflow also entered between 53 to 63 feet deep, and increased slightly between 43 to 53 feet. This upward ambient flow then exited at a zone of lower head between 35 to 43 feet.

Weak ambient inflow may also have entered between 31.5 to 35 feet, flowed upward, and probably exited at the caliper enlargement between 23 to 26 feet deep.

Inflow while pumping originated greater than 239 feet deep, and increased at many depth ranges, including: 209 to 218, 203 to 209, 193 to 203, 174 to 184, 153 to 165, 142 to 153, 135 to 142, 126 to 135, 102 to 112, 71 to 83, 63 to 71, 43 to 53, 35 to 43, and 22 to 31.5 feet.

Some upward flow while pumping exited at zones of lower hydraulic head between 229 to 239, 184 to 193, 83 to 91, and 53 to 63 feet. Additional upward flow while pumping exited at a zone of lower hydraulic head between the casing bottom and 22 feet deep.

Most interpreted less-open planar features (black rose diagram) dip down toward the north-northwest, northwest, north, and north-northeast. A few less-open planes were interpreted to dip down toward the east-southeast, approximately south, and due west.

Open planar features (red rose diagram) dip down in numerous directions, including north-northwest, north-northeast, southwest, and northwest.

The stereoplot diagram shows most poles plotted near the diagram's center, representing open and less-open planes that dip down in many directions (as listed above), typically at dip angles less than 20 to 30 degrees from horizontal. A small cluster of black and red poles near the stereoplot's upper left edge represents less-open and open planes that dip down toward the southeast at 80 to 85 degrees from horizontal. Another small cluster of black poles, near the middle of the stereoplot's lower-right quadrangle, represent less-open planes that dip down toward the northwest at 55 to 65 degrees from horizontal.

MW-17

This borehole's caliper log showed many minor enlargements, particularly less than 135 feet deep. The biggest enlargements were near 26 to 29, 37 to 46, and 209 feet deep.

FTemp and FRes logs showed some inflections that were judged likely to represent hydraulically active zones near the following depths: 24, 28, 34, 41, 43, 49, 51, 55, 63, 71, 76, 78, 81, 161.5, 168, 172, and 241.5. Additional subtle fluid-log variations were also observed, as described in the conventional log plot's comments column.

Weak ambient inflow may have entered between 42 to 50 feet deep, flowed upward, & exited at a zone of lower head between 32 to 42 feet deep. Additional weak ambient upward inflow may have entered between 21 to 32 feet deep, and exited near the casing bottom.

Weak ambient inflow may also have entered between 70 to 80 feet deep, flowed downward, and exited at a zone of lower hydraulic head between 80 to 88 feet. Stronger downward ambient inflow entered between 88 to 98 feet deep. This downward ambient flow may have increased between 98 to 111, 123 to 133, 143 to 153, 163 to 173,211 to 220, and 220 to 229 feet deep. Some of this downward ambient flow exited at zones of lower hydraulic head between 133 to 143, 153 to 163, 173 to 182, 202 to 211, and 229 to 239 feet deep. The remaining downward ambient flow exited at a zone of lower head greater than 239 feet deep.

Pumping this well stopped or reversed the downward ambient flow observed at most test depths. Downward flow while pumping still entered between 229 to 239 feet, and exited at a zone of lower hydraulic head greater than 239 feet deep. Upward inflow while pumping originated between 202 to 211 feet deep, and may have increased between the following depths: 182 to 192, 163 to 173, 98 to 111, 88 to 98, and 60 to 70 feet deep. Some upward flow while pumping apparently exited at zones of lower hydraulic head between the following depth ranges: 192 to 202, 173 to 182, 80 to 88, 50 to 60, 42 to 50, and 32 to 42 feet. The 21-foot pumping flowmeter test result is questionable, because both the probe and the pump were at virtually the same depth (very close to the static water level).

MW-18

This borehole was located near the intersection of Amboy Avenue and Pulaski Street, in Ponytail Park.

This well's caliper log shows numerous enlargements, particularly less than 80 feet deep. The biggest enlargement was observed between 57 to 58 feet deep.

FTemp and/or FRes inflections judged likely to represent hydraulically active zones were observed near the following depths: 24, 27, 34 to 36, 43, 48.5, 54 to 55, 59, 66, 78, and possibly 86 to 88 feet. The remaining fluid-property anomalies listed in the conventional log plot's comments column were quite small.

Ambient flow originated between 202 to 213.5 feet deep, and flowed upward. Increases in this upward flow were observed at the following depth ranges: 189 to 202, 160 to 176, 135 to 149, 120 to 135, 108 to 120, 95 to 108, 82 to 95, and 61 to 71 feet.

Some ambient upward flow exited at zones of lower hydraulic head between 176 to 189 and 149 to 160 feet deep. All upward ambient flow exited at a zone of lower hydraulic head between 45 to 61 feet deep, probably near the distinct FRes and FTemp inflections near 54 to 55 feet. The minor upward ambient flow observed within the steel casing probably exited at a casing joint.

Inflow while pumping originated greater than 226 feet deep, and increased in the following depth intervals: 202 to 213.5, 176 to 189, 135 to 149, 120 to 135, 108 to 120, 95 to 108, 82 to 95, 61 to 71, 31 to 45, and between the casing bottom and 24 feet deep.

Portions of this upward flow while pumping may have exited at zones of lower hydraulic head between the following depths: 213.5 to 226, 149 to 160, 45 to 61, and 24 to 31 feet.

Note that this well was deviated up to roughly 18 degrees from vertical; this tilt increased steadily versus depth.

Interpreted less-open planar features (black rose diagram) dip down in numerous directions, including northwest, west-northwest, north-northwest, west-southwest, south-southwest, and southeast.

Only three open planar features were interpreted in this well, dipping down toward the northwest and north-northeast.

The stereoplot diagram shows black (less-open) planar features dipping down in many directions (particularly the west-northwest, northwest, and north-northwest), at dip angles generally less than 30 degrees from horizontal. A group of three black poles near the diagram's upper left edge represent less-open planes dipping down toward the east-southeast and southeast, at roughly 80 to 85 degrees from horizontal.

<u>MW-19</u>

This well was located at the end of Fairlamb Avenue.

The caliper log shows numerous significant enlargements, particularly less than 485 feet deep. Greater than 485 feet deep, the only significant enlargement was observed near 548 feet.

FTemp and/or FRes inflections judged likely to represent hydraulically active zones were observed at the following depths: 56, 64, 77.5, 85, 130, 133, 139 to 141, 148 to 155, 260, 266, 478 to 482, 513 to 514, and 548 to 550 feet. Additional, subtle fluid-property variations were observed at numerous depths, as noted in the conventional log's comments column.

Ambient upward inflow originated between 555 to 565 feet deep, and increased between the following depth ranges: 545 to 555, 526.5 to 545, 506 to 526.5, 470 to 486, 435 to 452, 405 to 415, 382 to 405, 364 to 382, and 290 to 305 feet.

Some upward ambient flow exited at zones of lower hydraulic head in the following depth ranges: 486 to 506, 452 to 470, 415 to 435, 305 to 322.5, 253 to 270, 235 to 253, 202 to 220, 180 to 202, 158 to 180, 147 to 158, 112 to 125, 95 to 112, and between the casing bottom to 69 feet deep. Weak upward ambient flow observed within the steel casing probably exited at a casing joint less than 50 feet deep.

The ABI40 probe's orientation sensors showed that this borehole deviates up to almost 11 degrees from vertical (see the "tilt" data channel on the televiewer log plot). Several "divots" on the borehole wall (e.g. near 66 feet deep) appear to be physically open but do not clearly exhibit a single down-dip compass direction; these may be places where the drilling equipment chipped a bit of rock from the borehole wall.

Numerous small blotches on the ABI40 traveltime and amplitude images may represent vugs (e.g. near 122 feet deep). Elongated near-vertical features (e.g. between 307 to 317 feet deep) probably represent gouges on the borehole wall caused by the drilling apparatus. Note that the ABI40 amplitude plot has a much finer-grained appearance and fewer vugs greater than approximately 462 feet deep; this may correspond with lithologic variations observed when coring this well.

Most interpreted less-open planar features (black rose diagram) dip down toward the northwest, north-northwest, and west-northwest.

Relatively few open planar features were observed; the red rose diagram shows that most interpreted open planar features dip down toward the northwest and southeast.

The stereoplot diagram shows several distinct clusters of feature poles. The largest cluster, located slightly to the right and below the stereoplot's center, shows that most of the less-open features shown on the black rose diagram exhibit dip angles less than 40 degrees from horizontal. A small group of red and black poles near the stereoplot's upper left edge represent open and less-open planes that dip down toward roughly the southeast, between 60 to 80 degrees from horizontal. Another small cluster of black poles, near the center of the stereoplot's lower-right quadrant, represents less-open planes that dip down toward the northwest between 55 to 75 degrees from horizontal.

<u>MW-20</u>

The caliper log from this well shows a relatively rough borehole wall, with distinct enlargements near 92 to 95, 104 to 105, 121, 144, 155, 253 and 301 feet deep.

A few distinct FRes or FTemp inflections were judged likely to represent hydraulically active zones, near the following depths: 24, 58, 104, 301, and 334.5 feet. Many other small variations in fluid-log properties were also observed, as listed in the comments section of the conventional log plot.

Weak upward ambient flow entered between 371 to 386 feet deep, increased between 356 to 371 feet, and apparently exited at a zone of lower hydraulic head between 341 to 356 feet.

Additional ambient inflow entered between 326 to 341 feet deep, and flowed upward. Most upward ambient flow entered between 297 to 312 feet; additional upward ambient inflow entered in the

following depth ranges: 269 to 285, 254 to 269, 227 to 240, 196 to 214, 129 to 142, 108 to 120, 80 to 89, and 32 to 43 feet.

Some ambient upward flow exited at zones of lower hydraulic head in the following depth intervals: 285 to 297, 240 to 254, 214 to 227, 168 to 182, 153 to 168, 142 to 153, 120 to 129, 97 to 108, 89 to 97, 66 to 80, 52 to 66, and 43 to 52 feet. Most of the remaining upward ambient flow exited at a zone of lower head between the casing bottom and 32 feet deep.

Inflow while pumping originated between 386 to 403 feet, but most inflow while pumping entered between 297 to 312 feet. Additional inflow while pumping entered in the following depth ranges: 371 to 386, 356 to 371, 341 to 356, 326 to 341, possibly 254 to 269, 240 to 254, 196 to 214, 182 to 196, 129 to 142, 120 to 129, and 80 to 89 feet.

Upward flow while pumping may have exited at zones of lower hydraulic head in the following depth ranges: 285 to 297, 227 to 240, 214 to 227, 168 to 182, 153 to 168, 108 to 120, 89 to 97, 52 to 66, and 32 to 43 feet. Additional upward pumping flow exited at a zone of lower head between the casing bottom and 32 feet deep.

Most interpreted less-open planar features (black rose diagram) dip down toward the northwest and north-northeast.

Most interpreted open planar features (red rose diagram) dip down toward the northwest, north-northwest, and southeast.

The stereoplot diagram shows most feature poles plotted near the diagram's center, especially just below and to the right of center. These poles represent open and less-open planes that dip down toward the northwest and north-northwest. A cluster of three red and one black pole, near the stereoplot's upper left edge, represent open and less-open planes that dip down toward the southeast at 75 to 85 degrees from horizontal. A group of three black poles, near the middle of the stereoplot's upper left quadrant, represents less-open planes that dip down toward the southeast at roughly 50 to 60 degrees from horizontal. A group of four black poles, located slightly above and left of the diagram's center, represents less-open planes that dip down toward the southeast between 30 to 40 degrees from horizontal. A cluster of black poles near the middle of the stereoplot's lower right quadrangle, represents less-open planes that dip down toward the northwest at approximately 45 to 60 degrees from horizontal.

Note that this well's acoustic televiewer log shows more steeply-dipping fractures (both open and less-open) than most other wells described in this report.

MW-21

MW-22

ERT-7

This well's caliper log shows many minor caliper enlargements, with the biggest being near 80 and 135 feet.

FTemp and FRes inflections or slope changes judged likely to represent hydraulically active zones were observed near the following depths: 26, 33, possibly 38, 44, 60, 68, 80, 85, 100 and 102 feet.

Ambient inflow may have entered between 84 to 95 feet deep, flowed downward, and exited at a zone of lower hydraulic head between 95 to 103 feet deep. Additional ambient inflow may have entered between 36.5 to 44 feet deep, and flowed upward. This upward flow probably exited at a casing joint.

Inflow while pumping originated greater than 146.5 feet deep, and increased between the following depth ranges: 140 to 146.5, 111 to 119, 95 to 103, 75 to 84, 65 to 75, 54.5 to 65, 36.5 to 44, and 26.5 to 36.5 feet. Some upward flow while pumping may have exited at zones of lower hydraulic head between 44 to 54.5 feet deep, and also between the casing bottom and 26.5 feet.

Inferred less-open planar features (black rose diagram) dip down in numerous directions, including the west-northwest, northwest, north-northwest, approximately northeast, west-southwest, south-southwest, and east-southeast.

Interpreted open planar features (red rose diagram) dip down toward the north-northwest, north, north-northeast, and east-northeast.

The stereoplot diagram shows a distinct cluster of mostly black poles near the diagram's center, representing less-open planes that dip down toward the west-northwest to northeast at dip angles less than 20 or 25 degrees from horizontal. A group of red and black poles in the stereoplot's lower-left quadrant represents open and less-open planes that dip down toward roughly the northeast, between 60 to 75 degrees from horizontal.

Former production well

* * * * *

We appreciate this opportunity to provide geophysical services, and we welcome questions concerning this report. Please call the undersigned at 508/429-2430 if we may provide additional information that would benefit Malcolm Pirnie's project.

Sincerely,

GEOPHYSICAL APPLICATIONS, INC.

Mark E. Blackey
Principal and Geophysicist

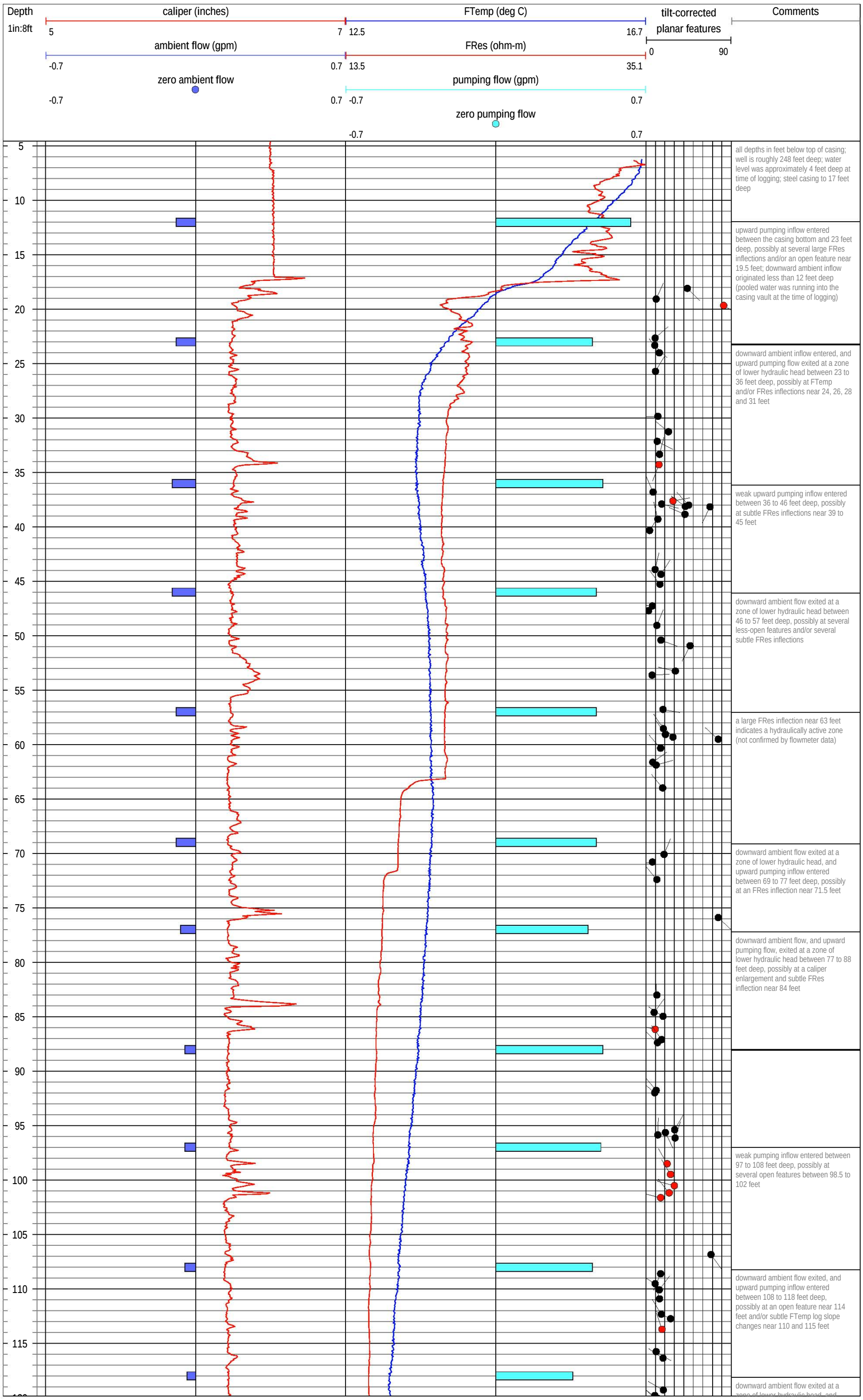
1091145 - 1091145_rpt.doc

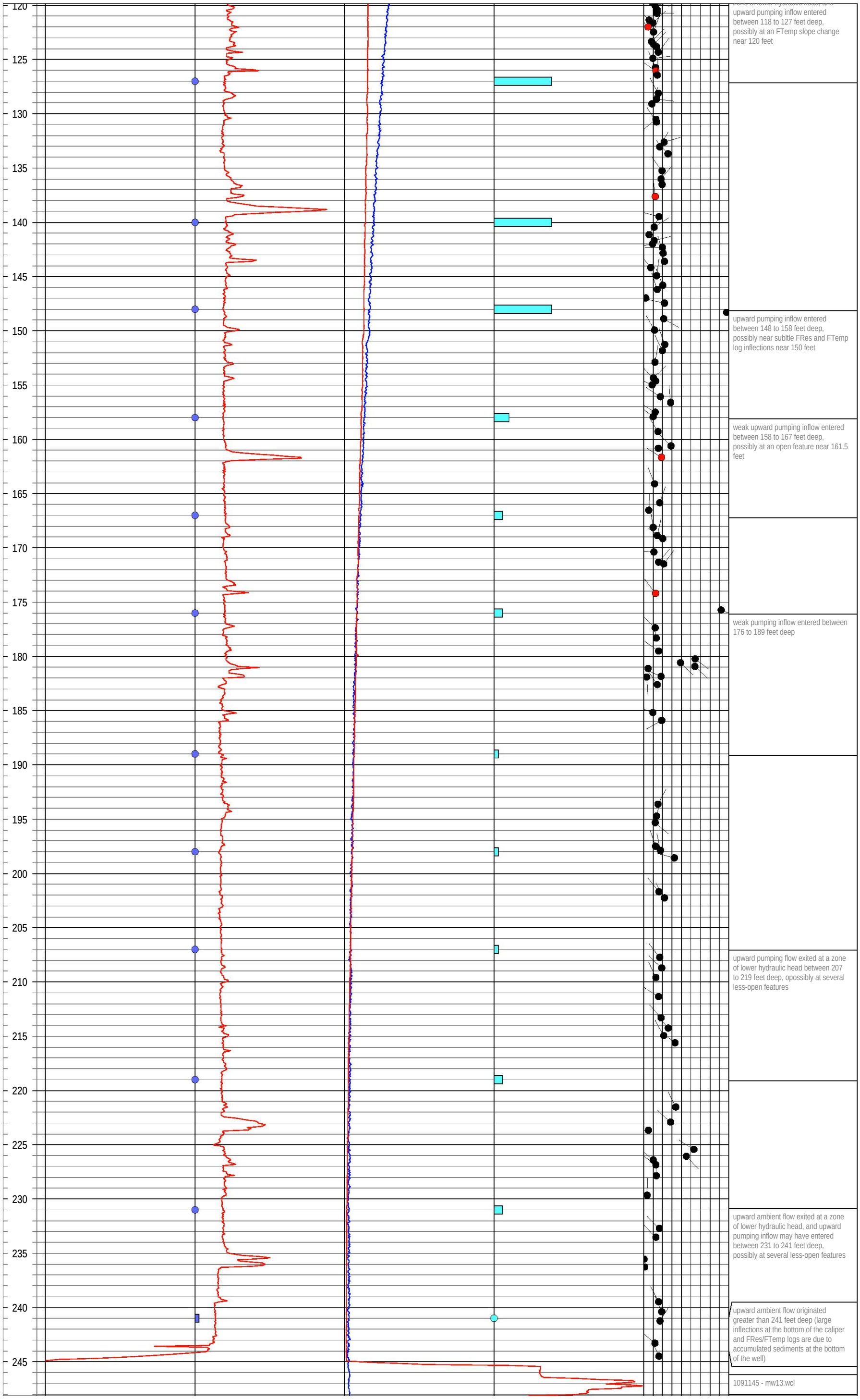
Appendix A

Borehole Geophysics Logs

R2-0017118

Malcolm Pirnie/South Plainfield, NJ - MW-13 - conventional logs

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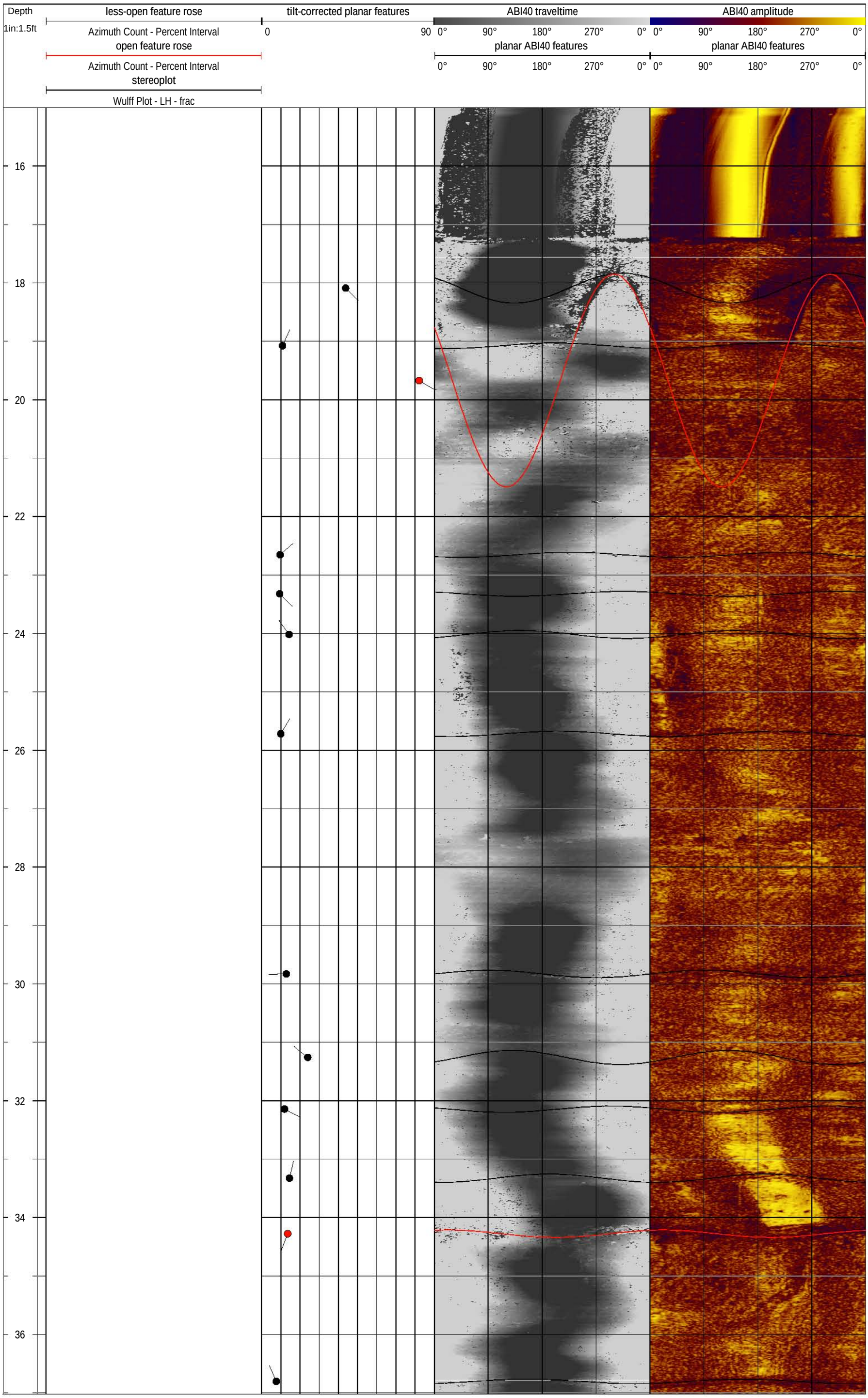
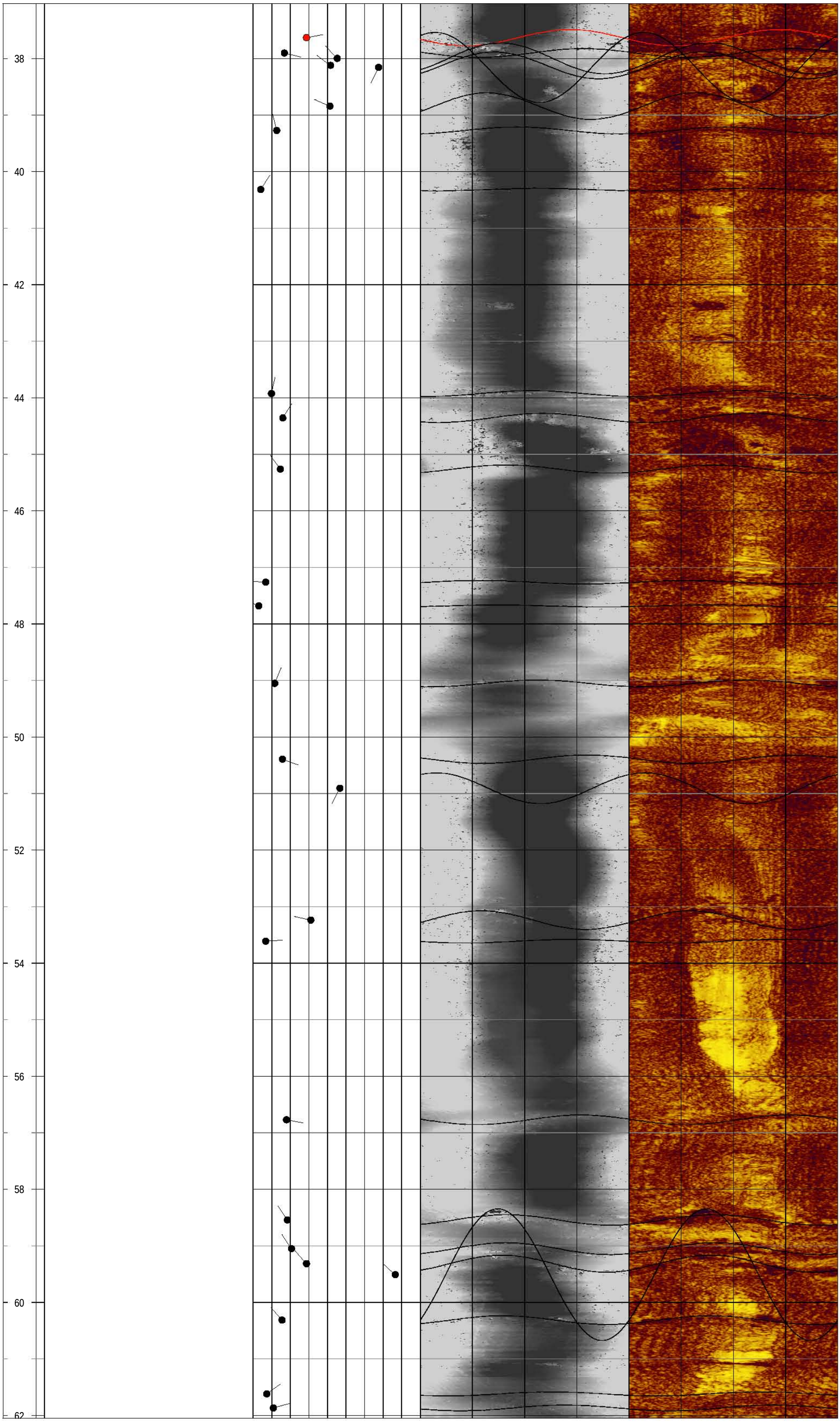
upward pumping inflow entered between 118 to 127 feet deep, possibly at an FTemp slope change near 120 feet
upward pumping inflow entered between 148 to 158 feet deep, possibly near subltle FRes and FTemp log inflections near 150 feet
weak upward pumping inflow entered between 158 to 167 feet deep, possibly at an open feature near 161.5 feet
weak pumping inflow entered between 176 to 189 feet deep
upward pumping flow exited at a zone of lower hydraulic head between 207 to 219 feet deep, opossibly at several less-open features
upward ambient flow exited at a zone of lower hydraulic head, and upward pumping inflow may have entered between 231 to 241 feet deep, possibly at several less-open features
upward ambient flow originated greater than 241 feet deep (large inflections at the bottom of the caliper and FRes/FTemp logs are due to accumulated sediments at the bottom of the well)
1091145 - mw13.wcl

Malcolm Pirnie/South Plainfield, NJ - MW-13 - acoustic televiewer log

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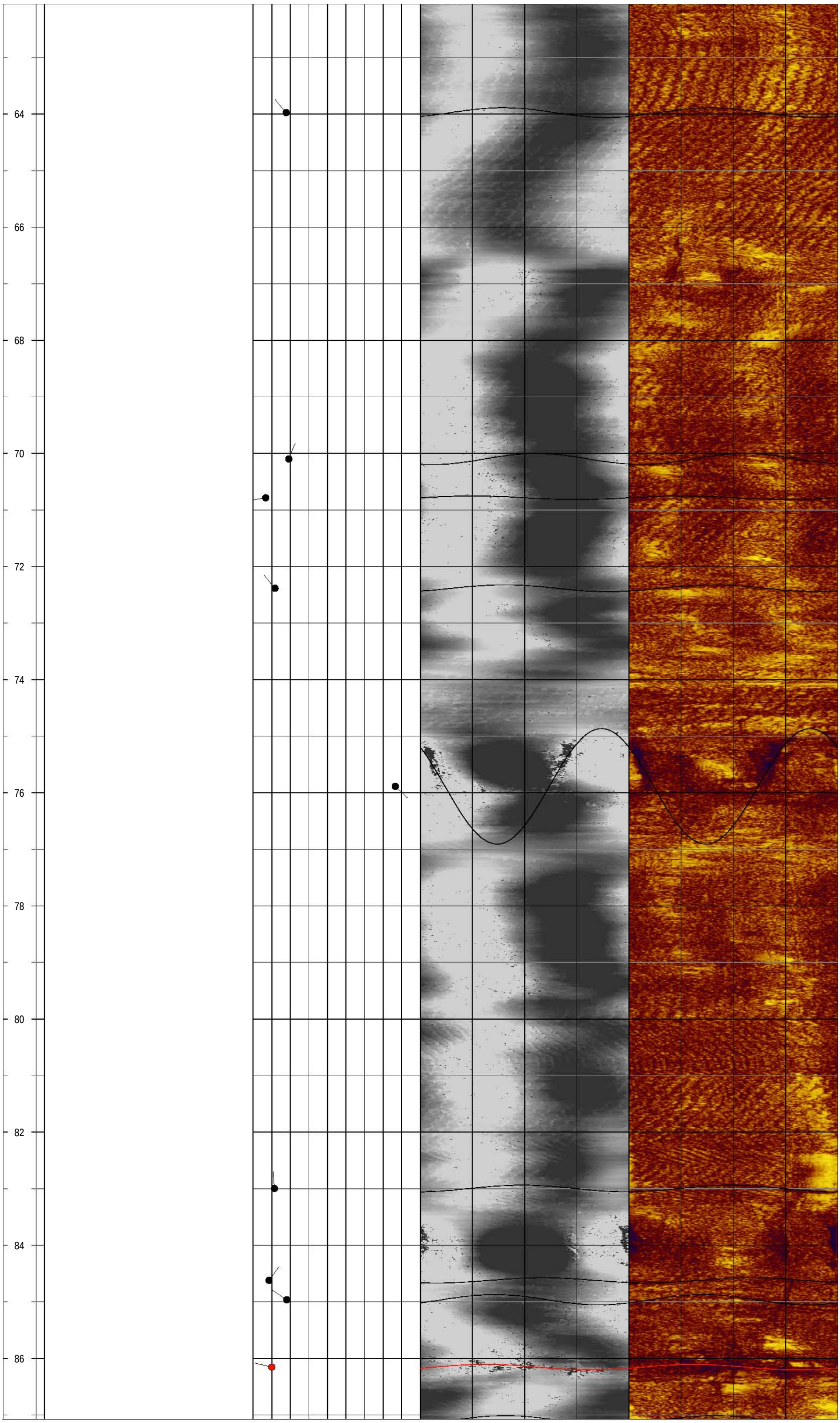

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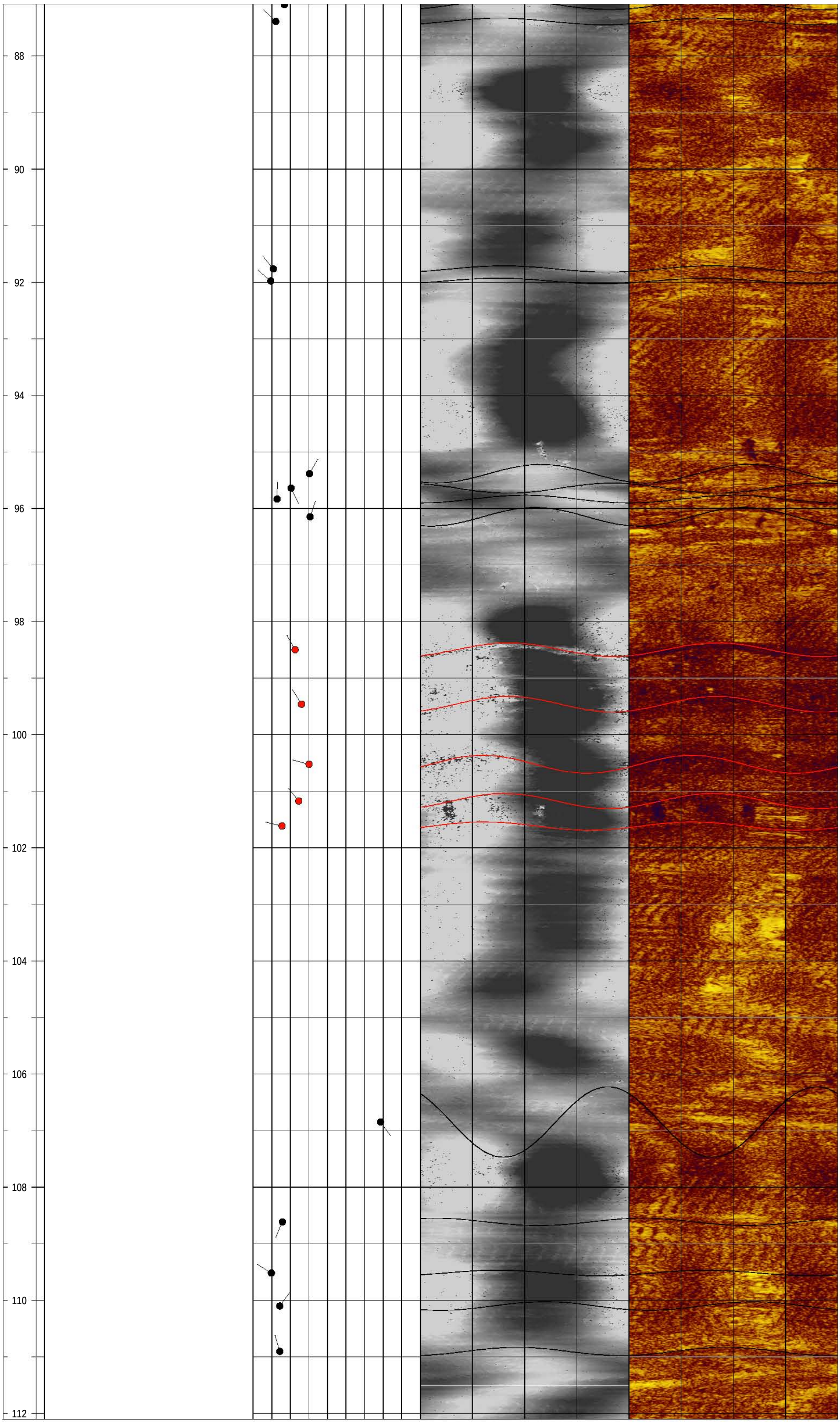

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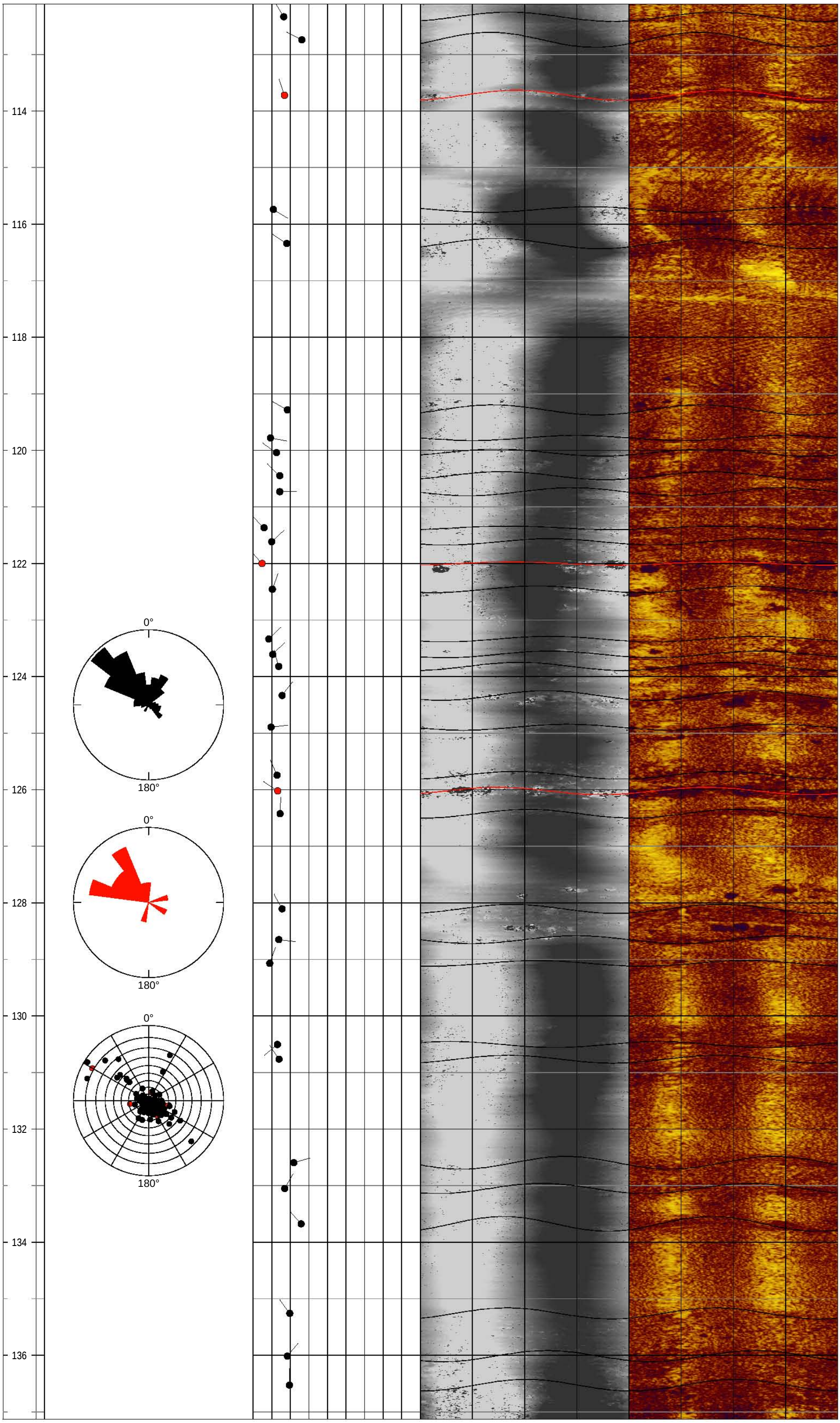

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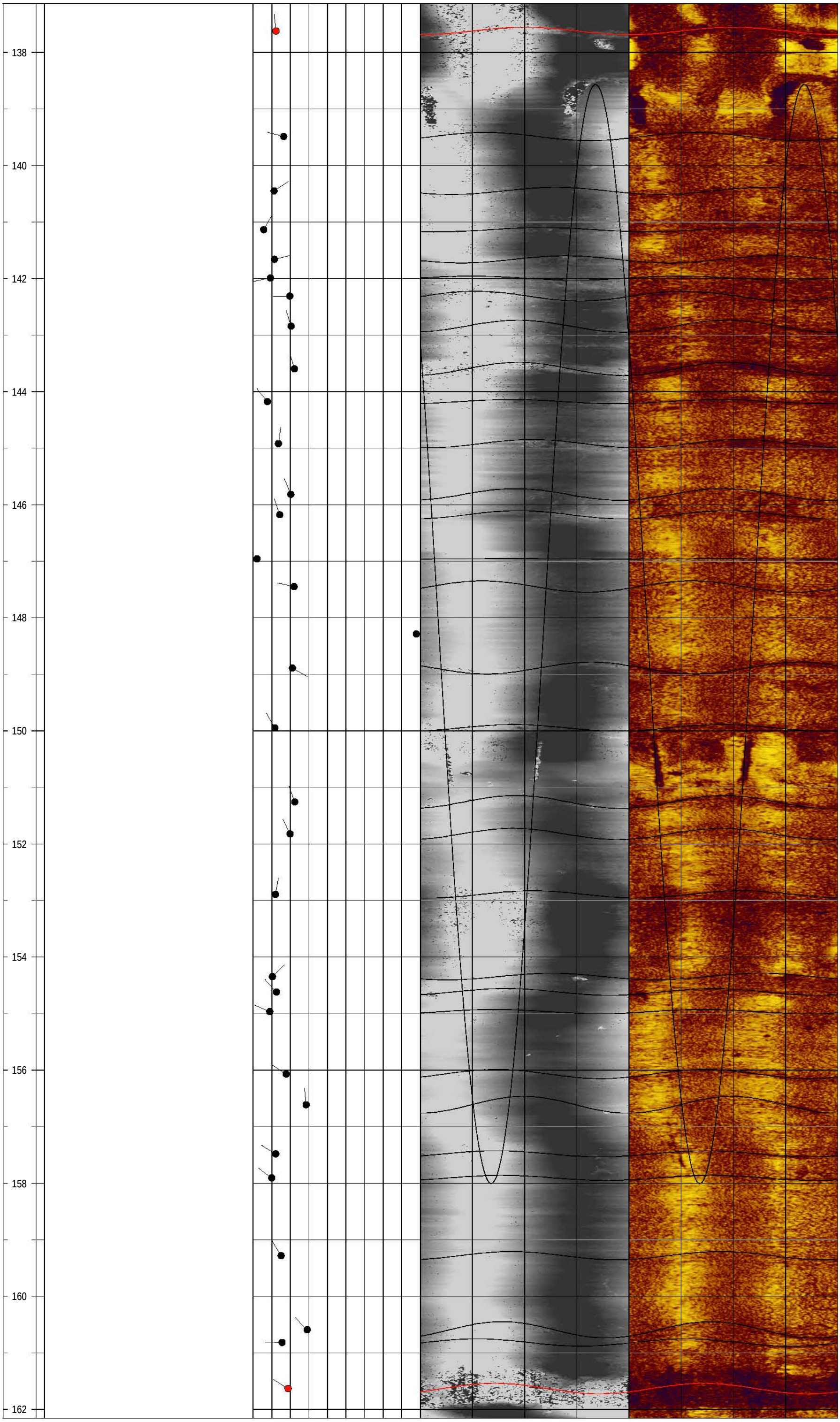
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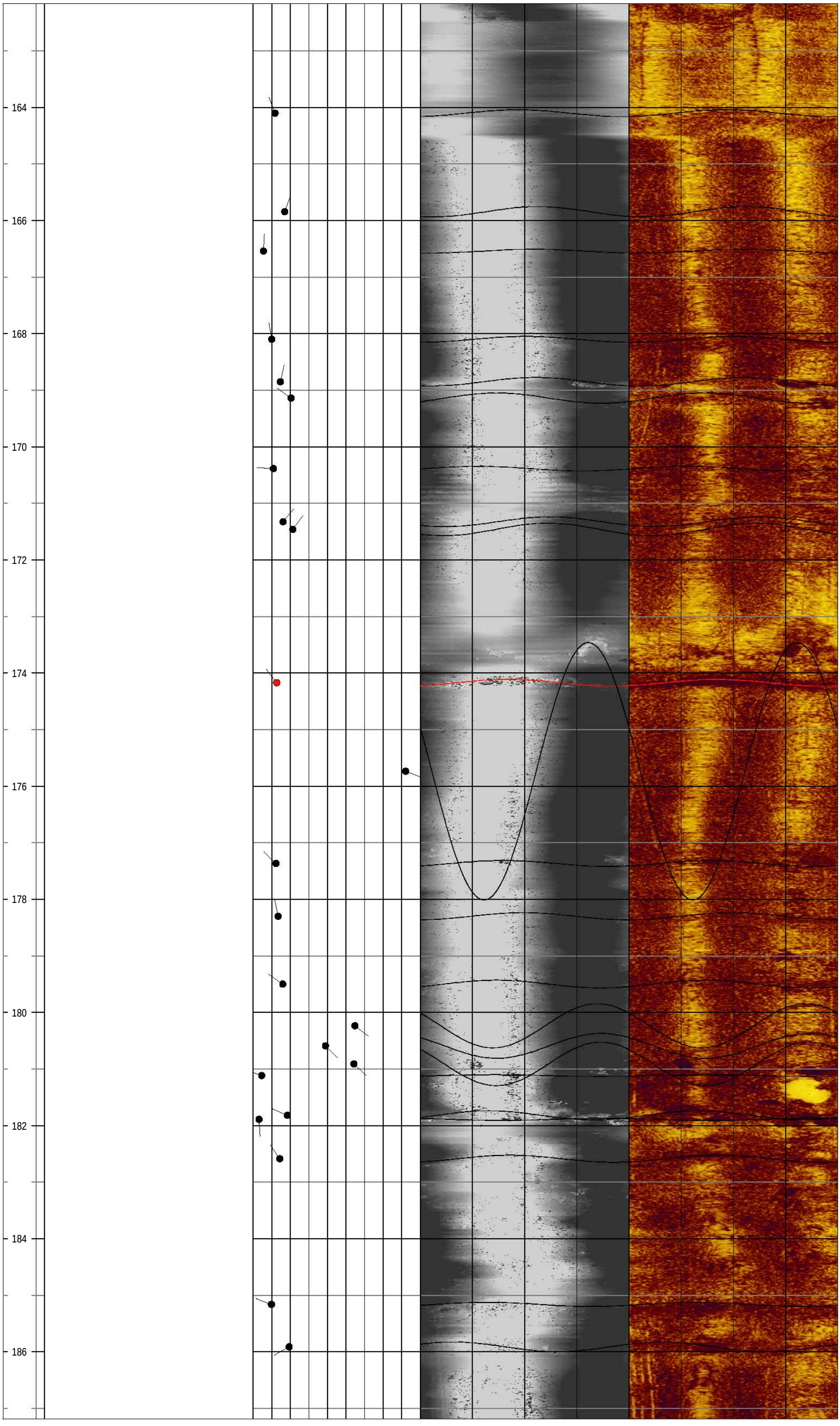

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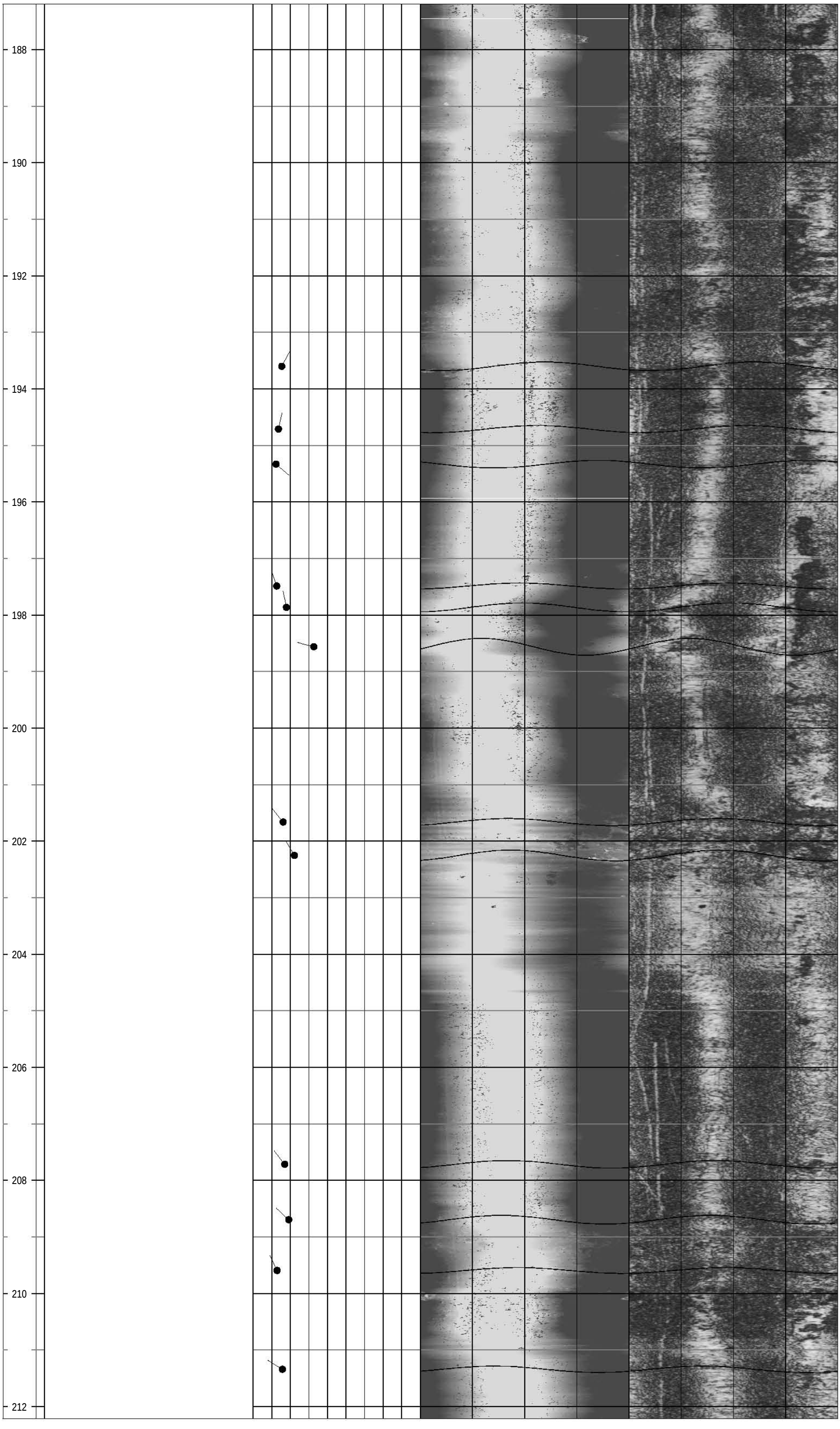

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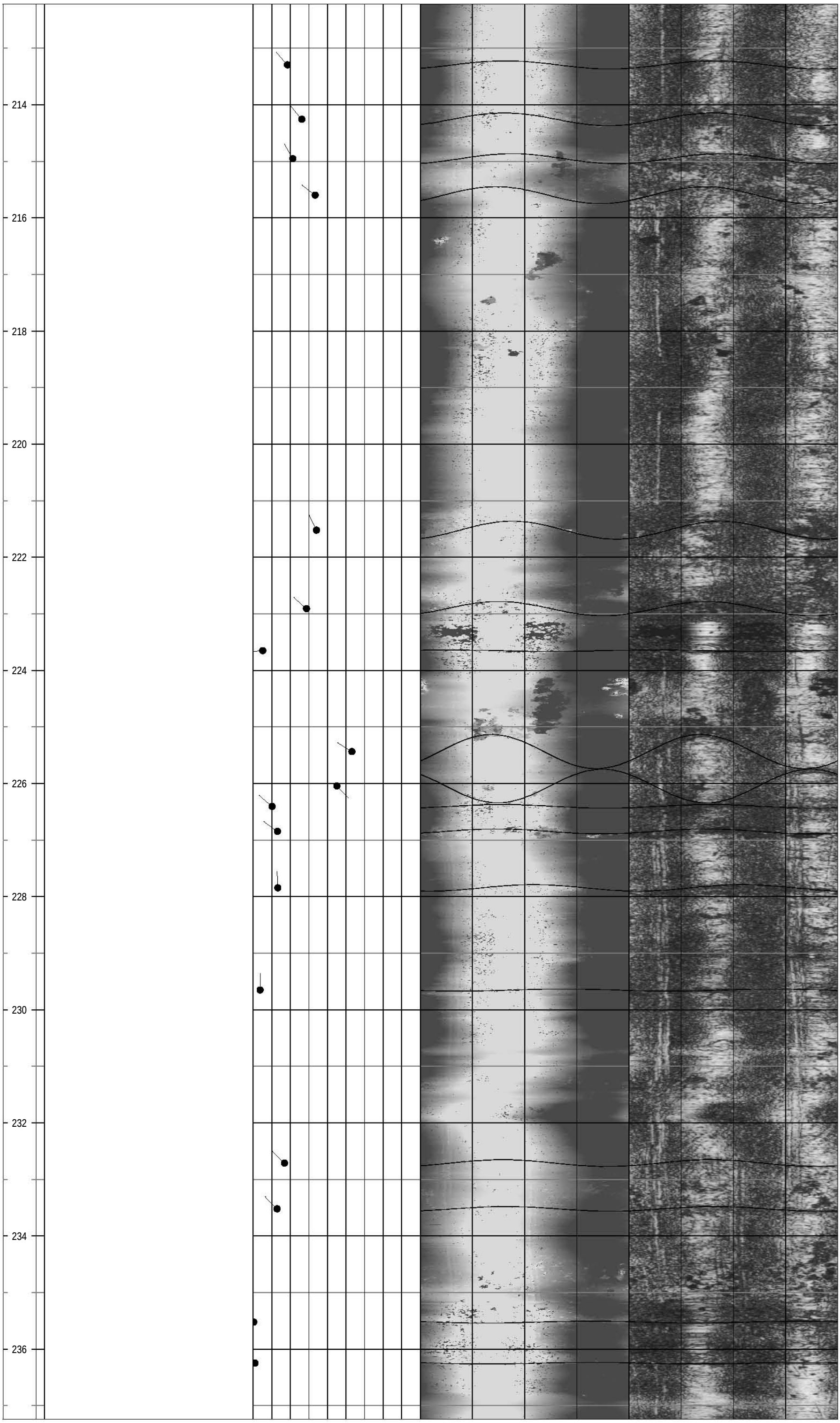

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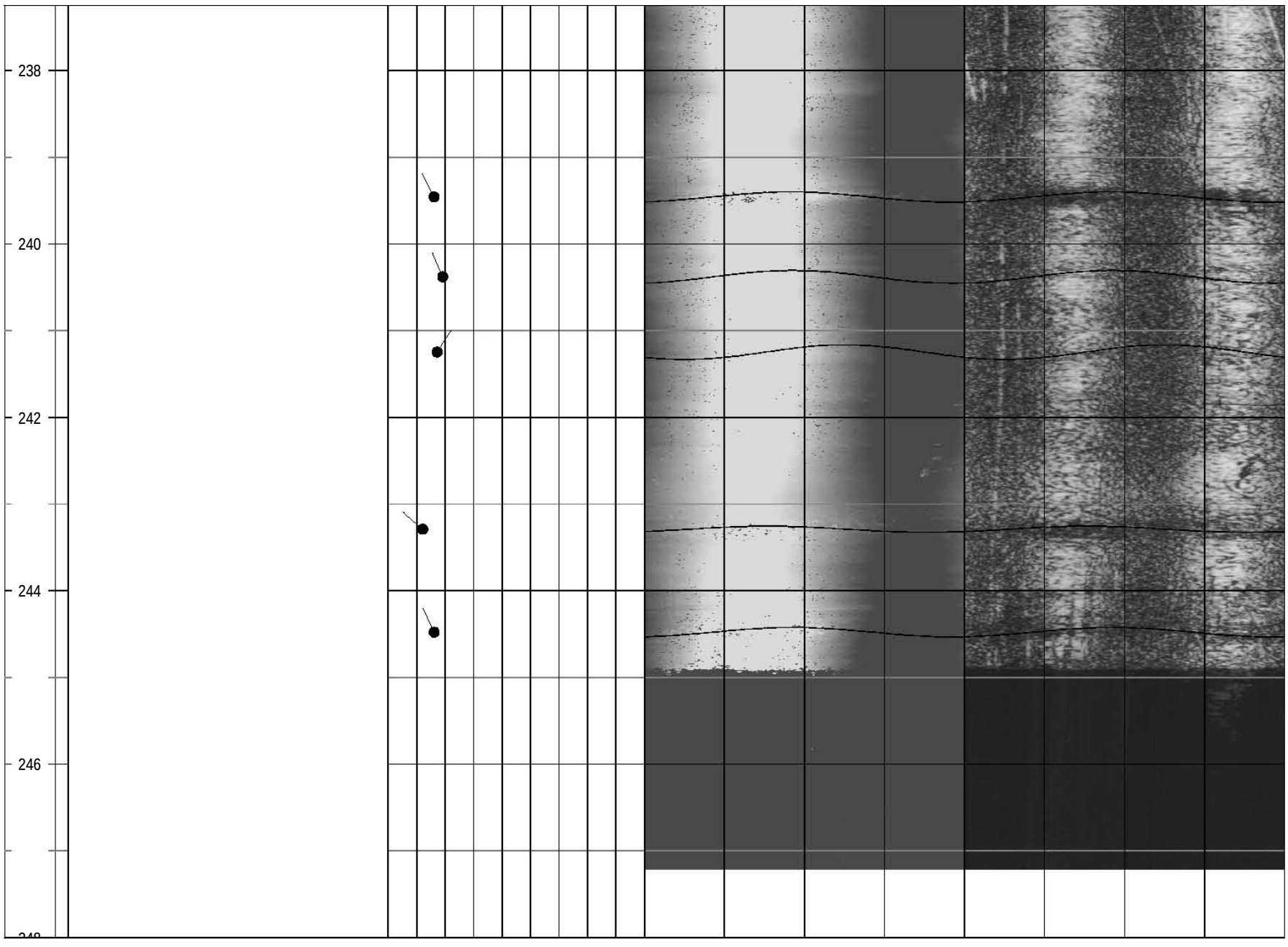
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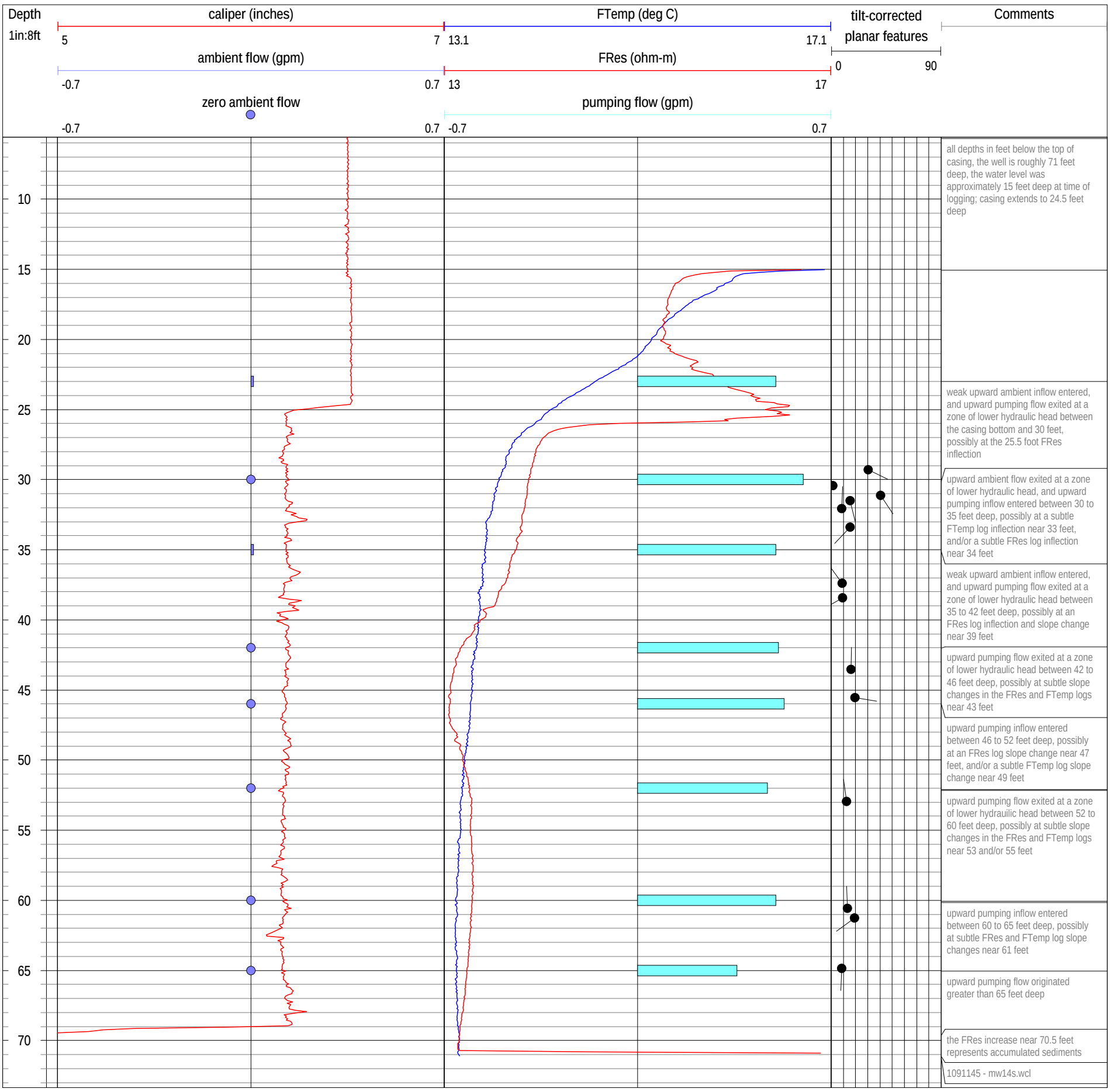
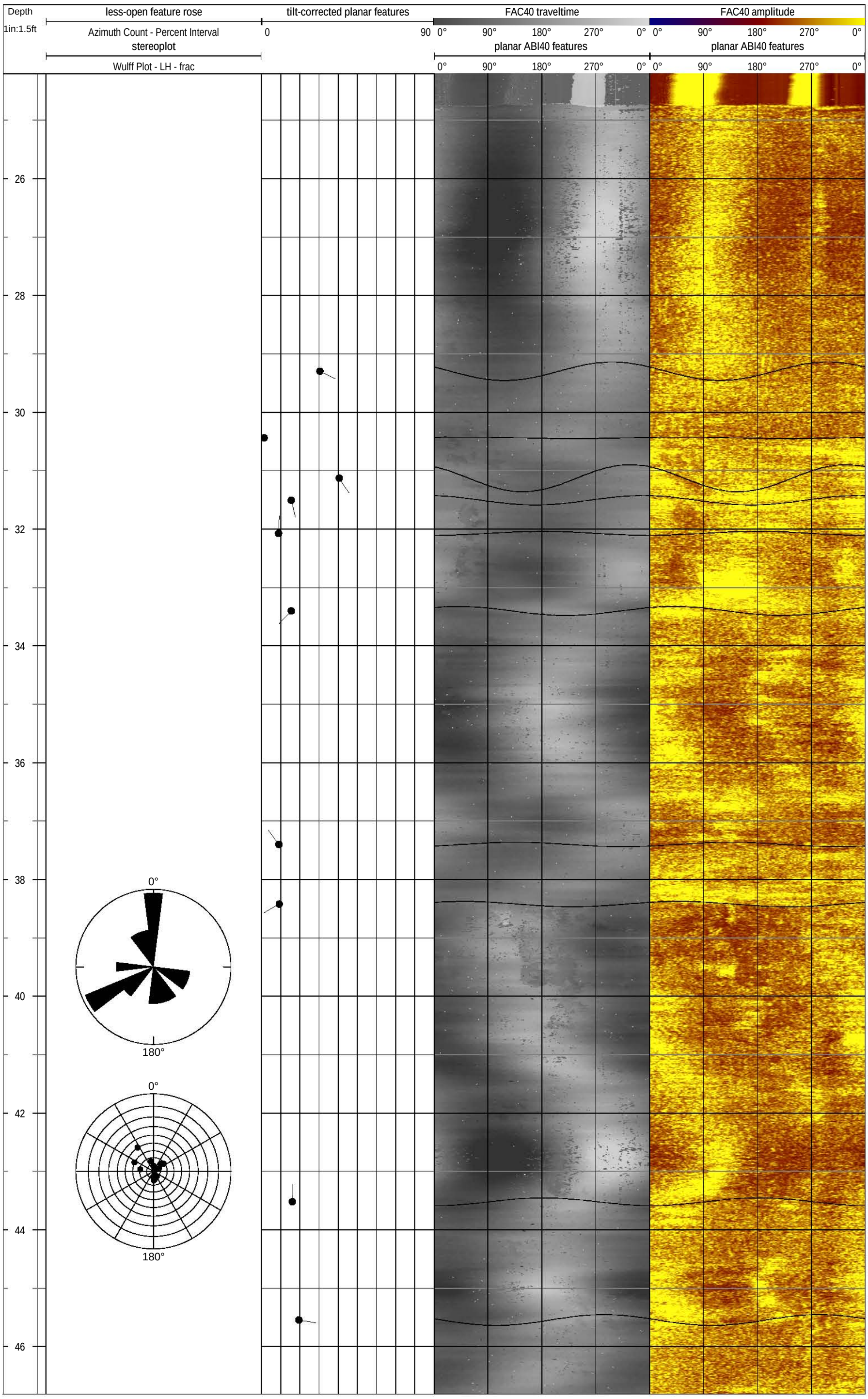
Malcolm Pirnie/South Plainfield, NJ - MW-14s - conventional logs



Malcolm Pirnie/South Plainfield, NJ - MW-14s - acoustic televiewer log



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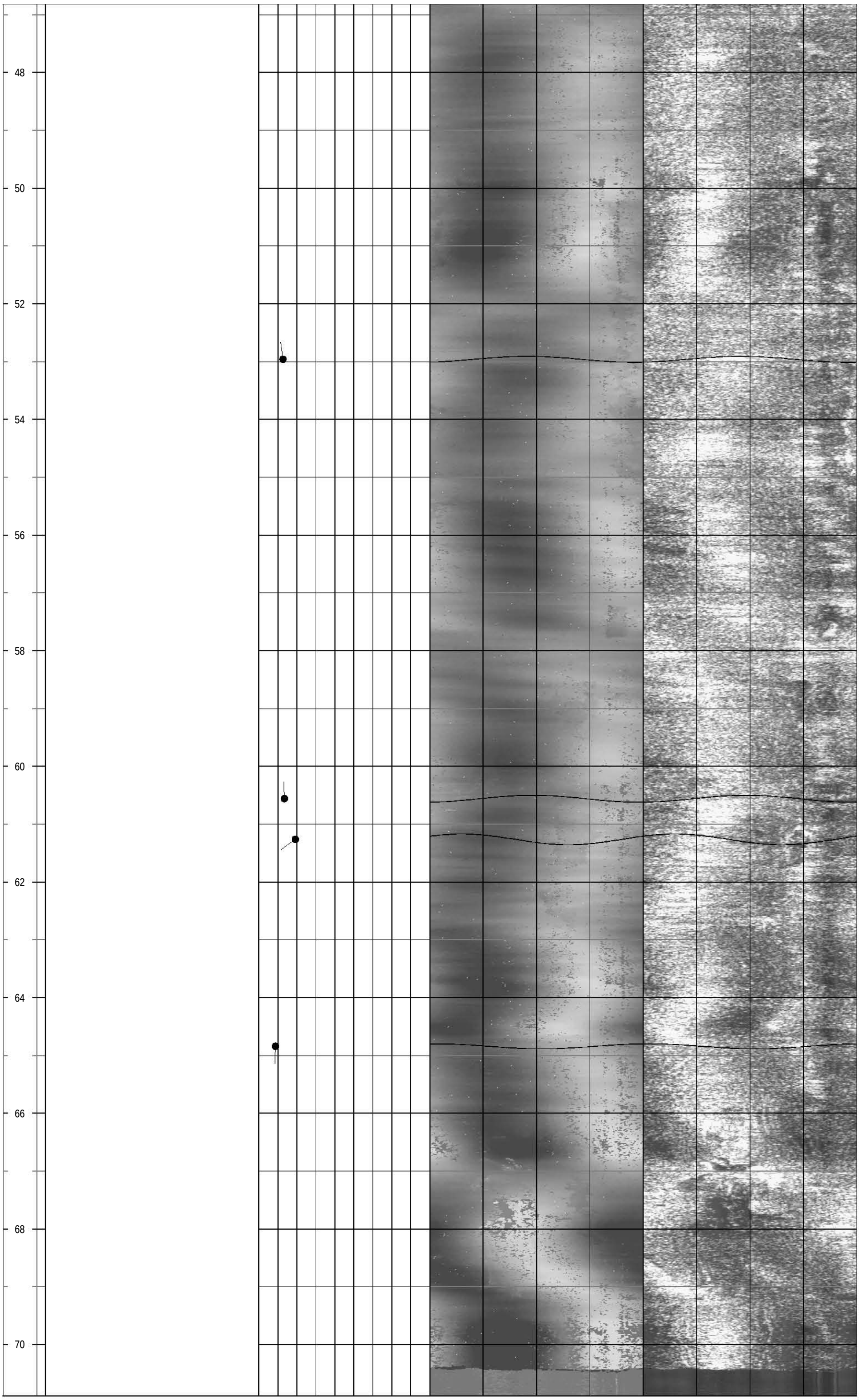
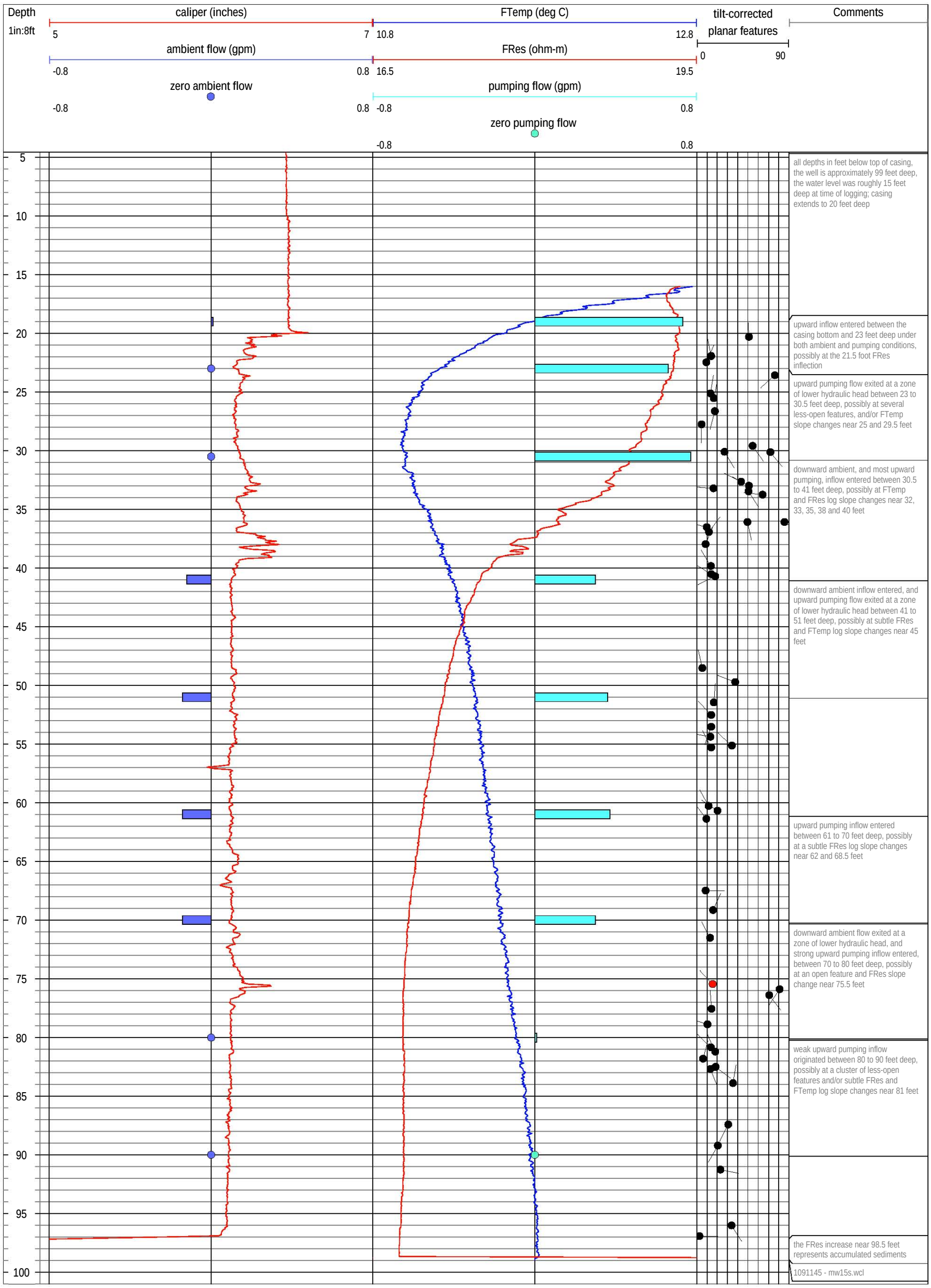
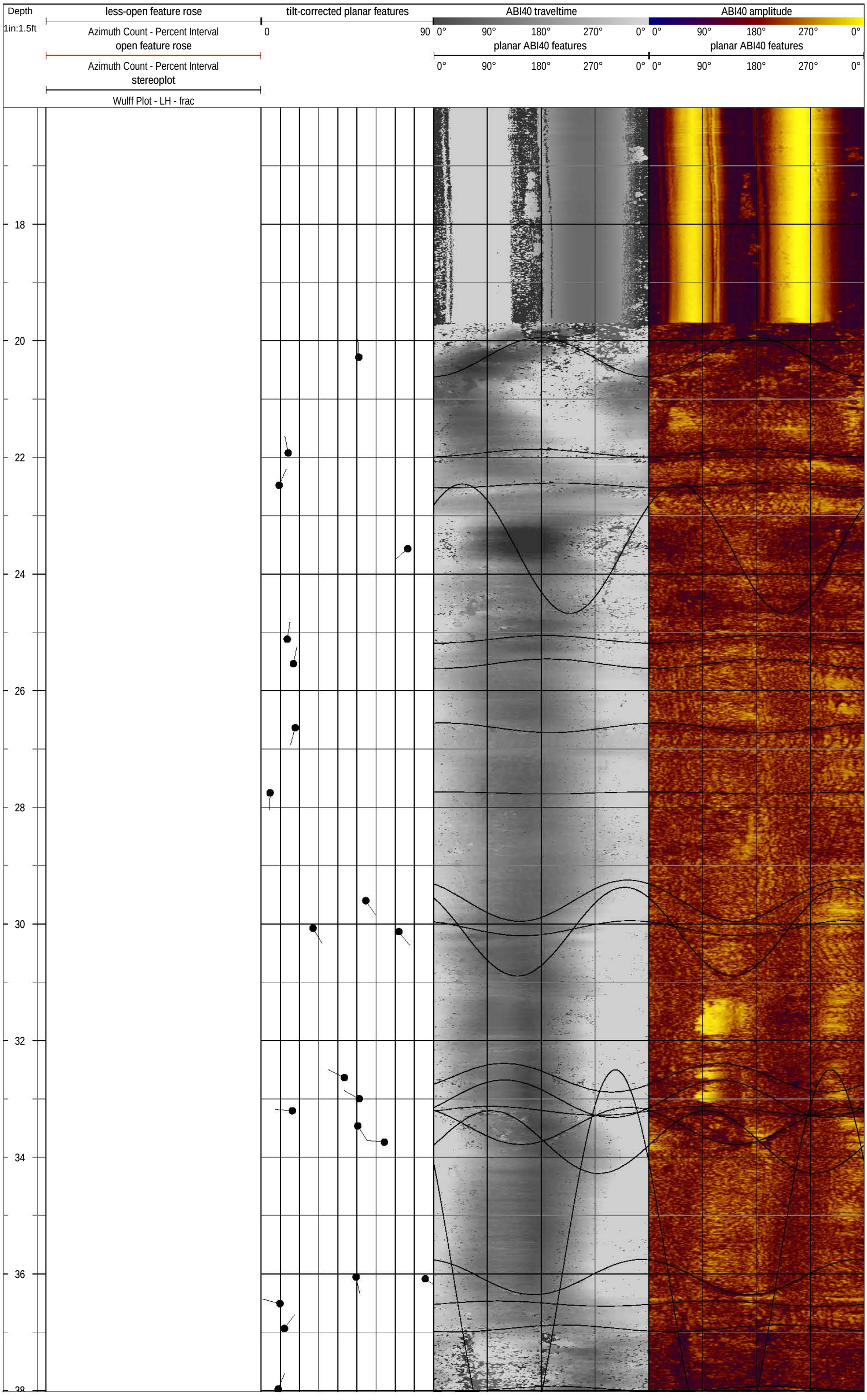


R2-0017133

Malcolm Pirnie/South Plainfield, NJ - MW-15s - conventional logs



Malcolm Pirnie/South Plainfield, NJ - MW-15s - acoustic televiewer log



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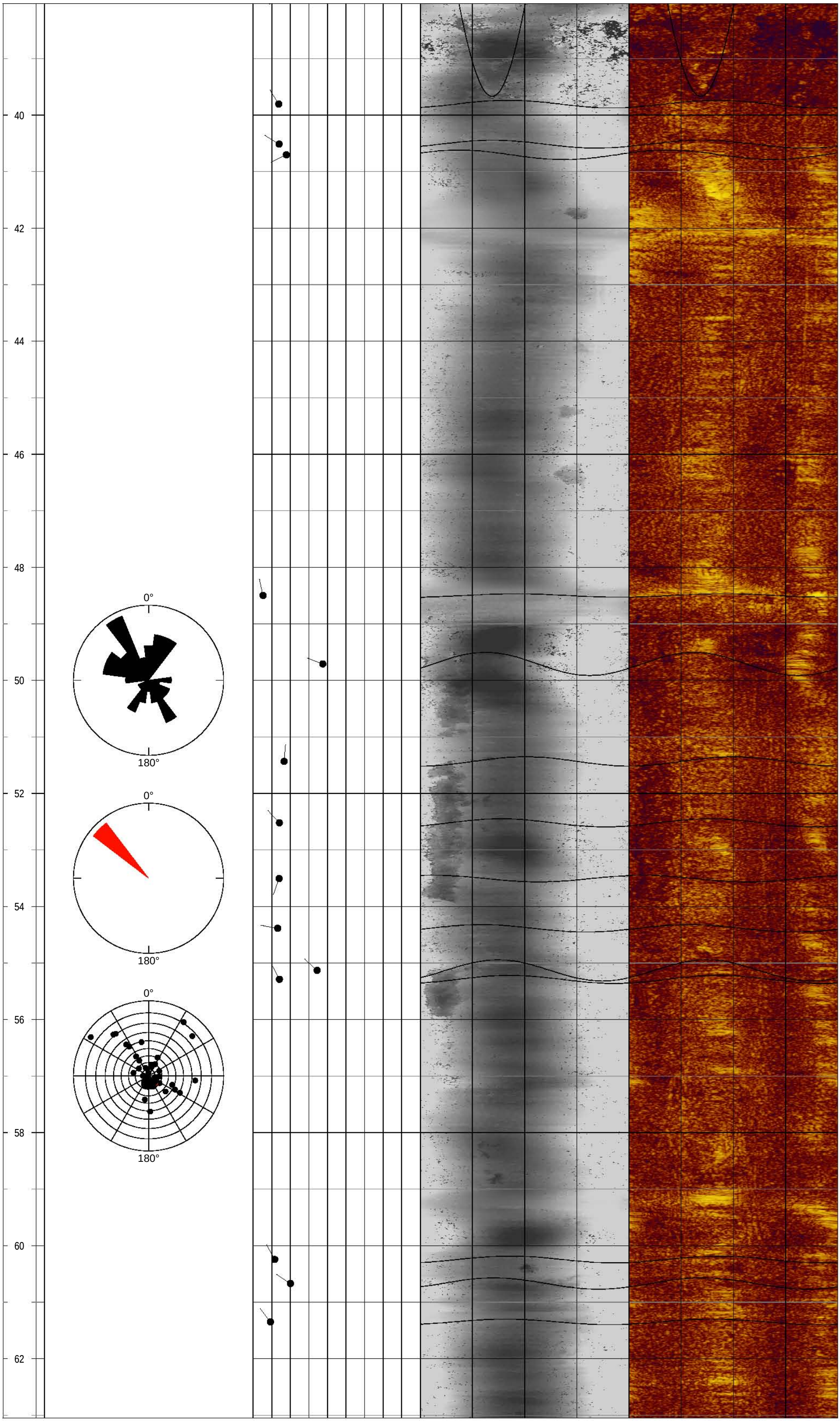

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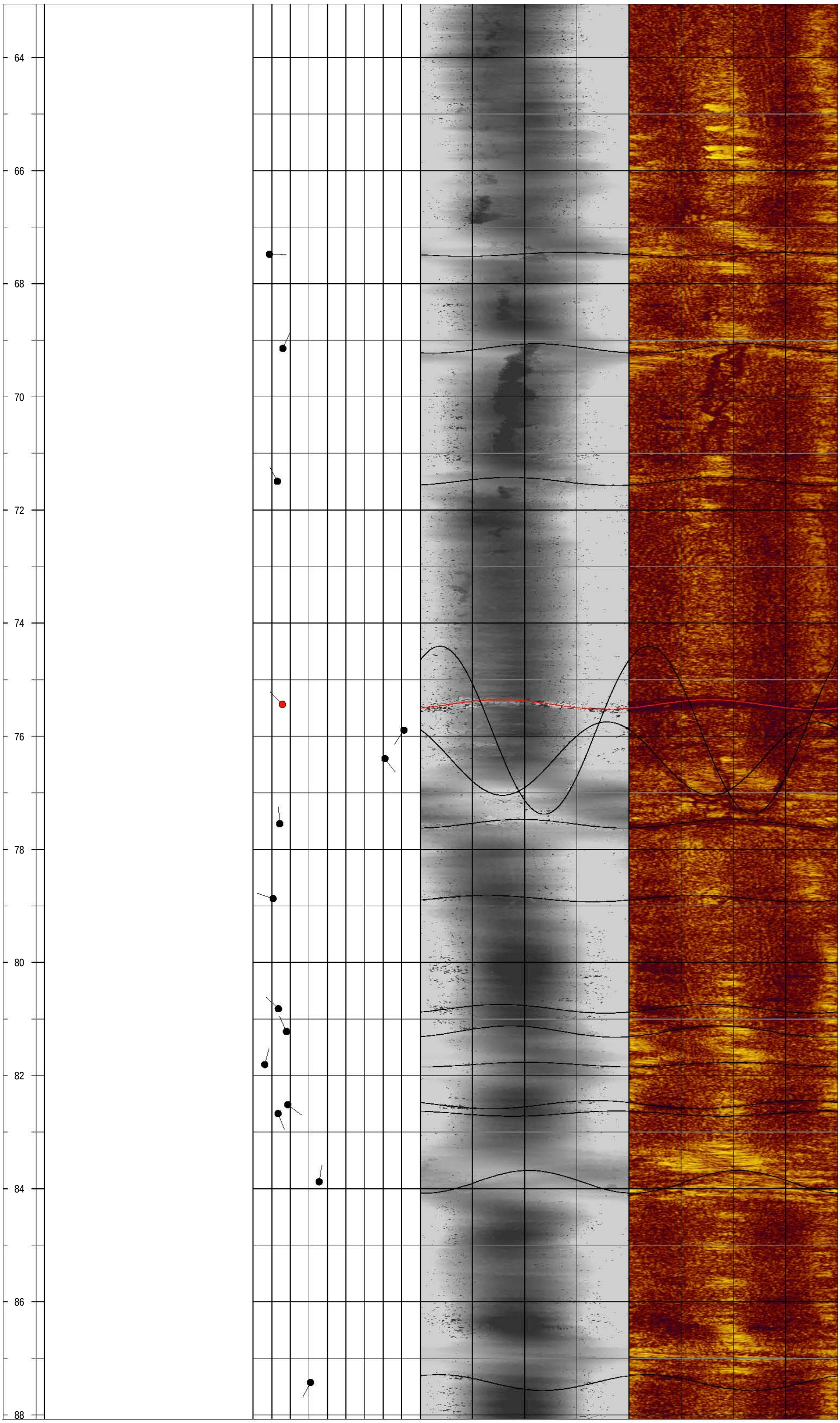

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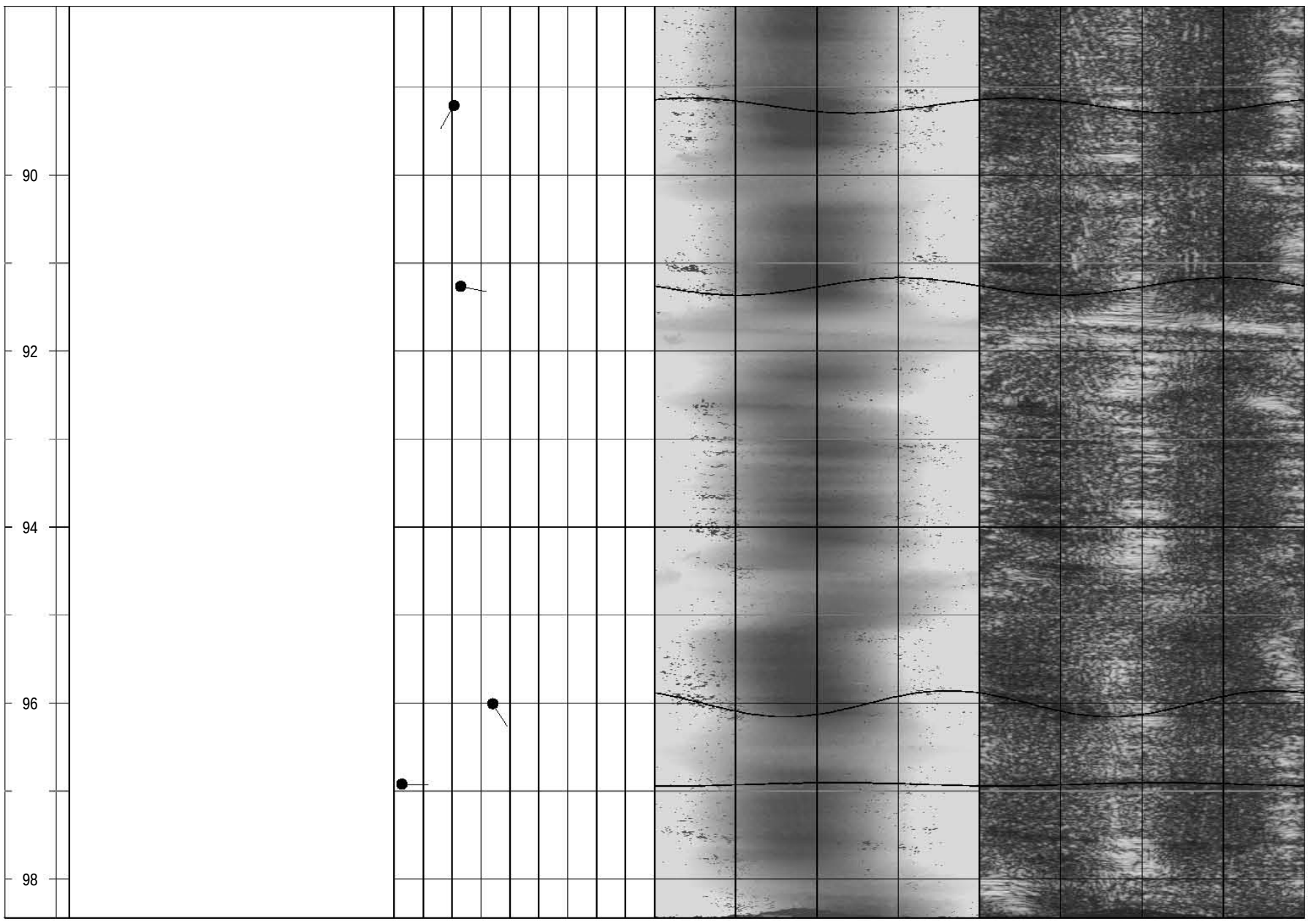
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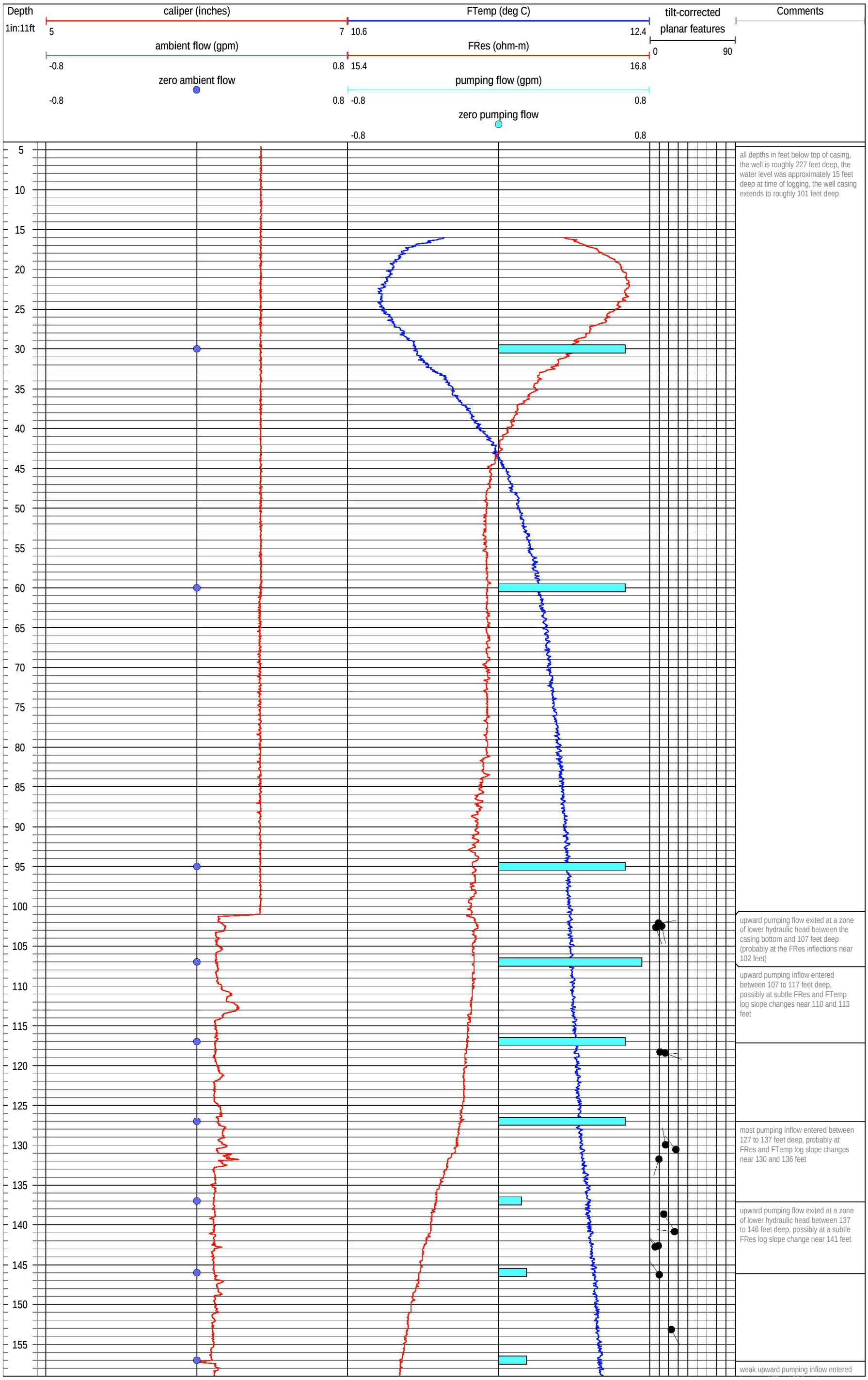
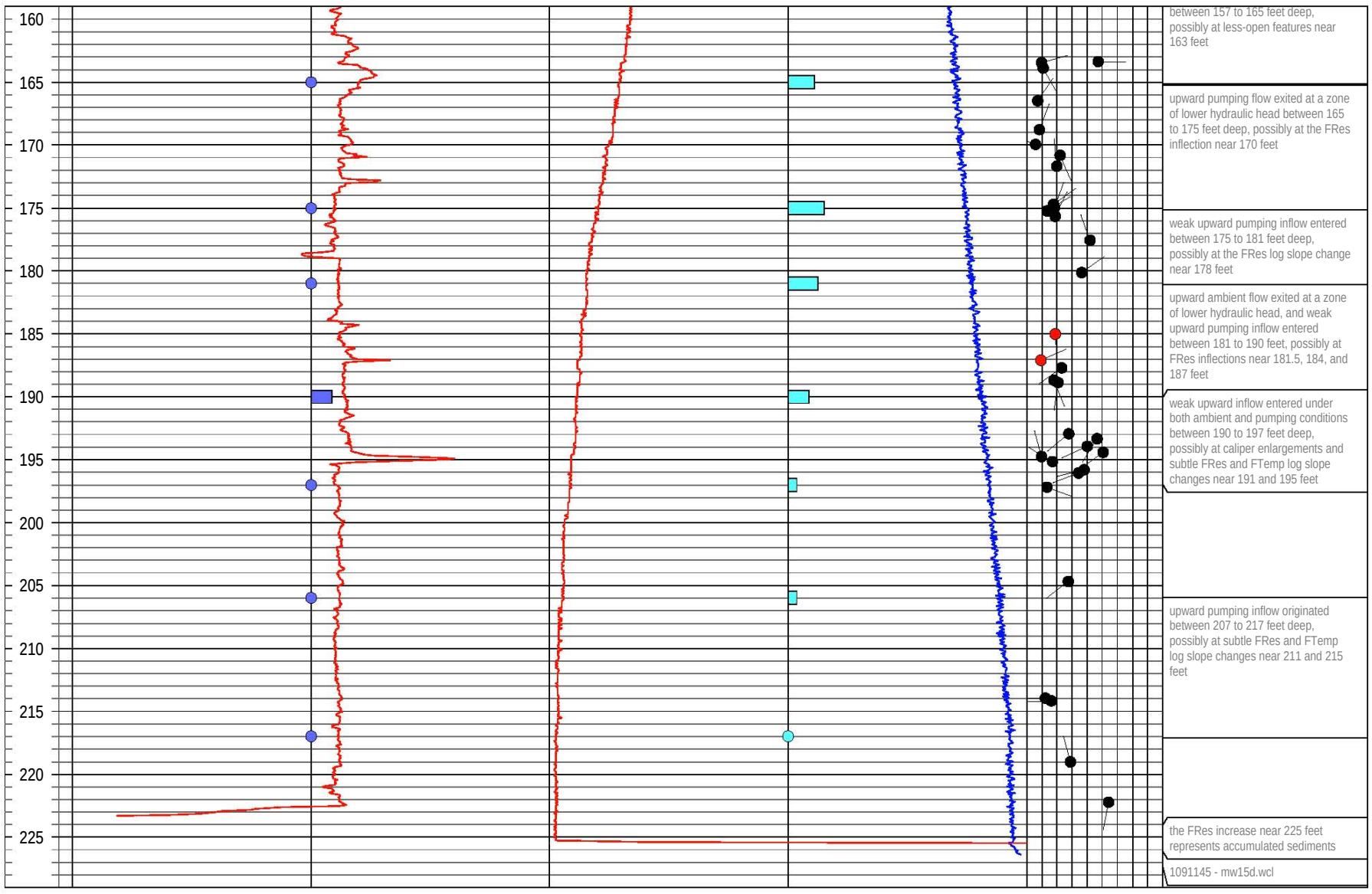
Malcolm Pirnie/South Plainfield, NJ - MW-15d - conventional logs

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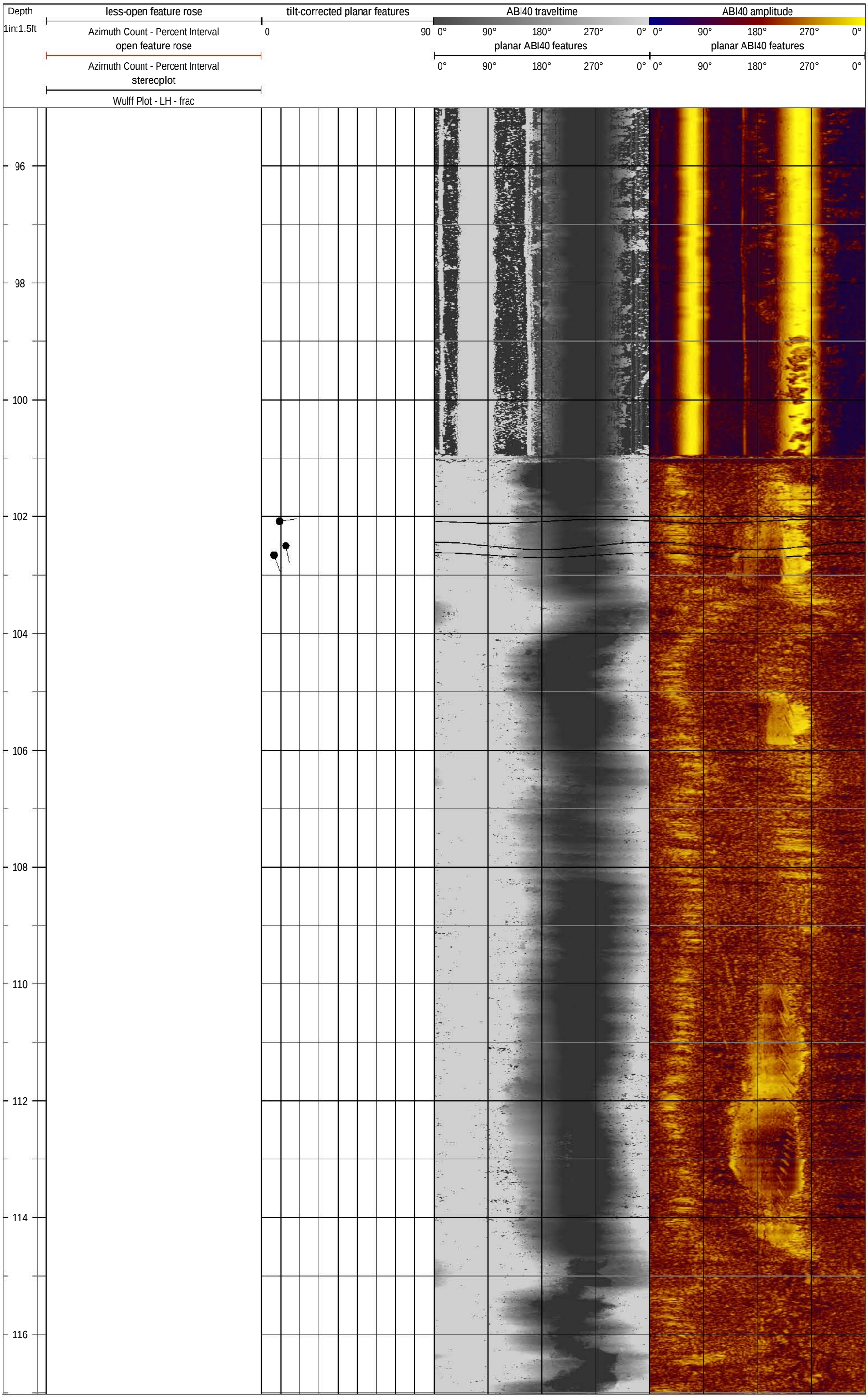
between 157 to 165 feet deep, possibly at less-open features near 163 feet
upward pumping flow exited at a zone of lower hydraulic head between 165 to 175 feet deep, possibly at the FRes inflection near 170 feet
weak upward pumping inflow entered between 175 to 181 feet deep, possibly at the FRes log slope change near 178 feet
upward ambient flow exited at a zone of lower hydraulic head, and weak upward pumping inflow entered between 181 to 190 feet, possibly at FRes inflections near 181.5, 184, and 187 feet
weak upward inflow entered under both ambient and pumping conditions between 190 to 197 feet deep, possibly at caliper enlargements and subtle FRes and FTemp log slope changes near 191 and 195 feet
upward pumping inflow originated between 207 to 217 feet deep, possibly at subtle FRes and FTemp log slope changes near 211 and 215 feet
the FRes increase near 225 feet represents accumulated sediments
1091145 - mw15d.wcl

Malcolm Pirnie/South Plainfield, NJ - MW-15d - acoustic televiewer log



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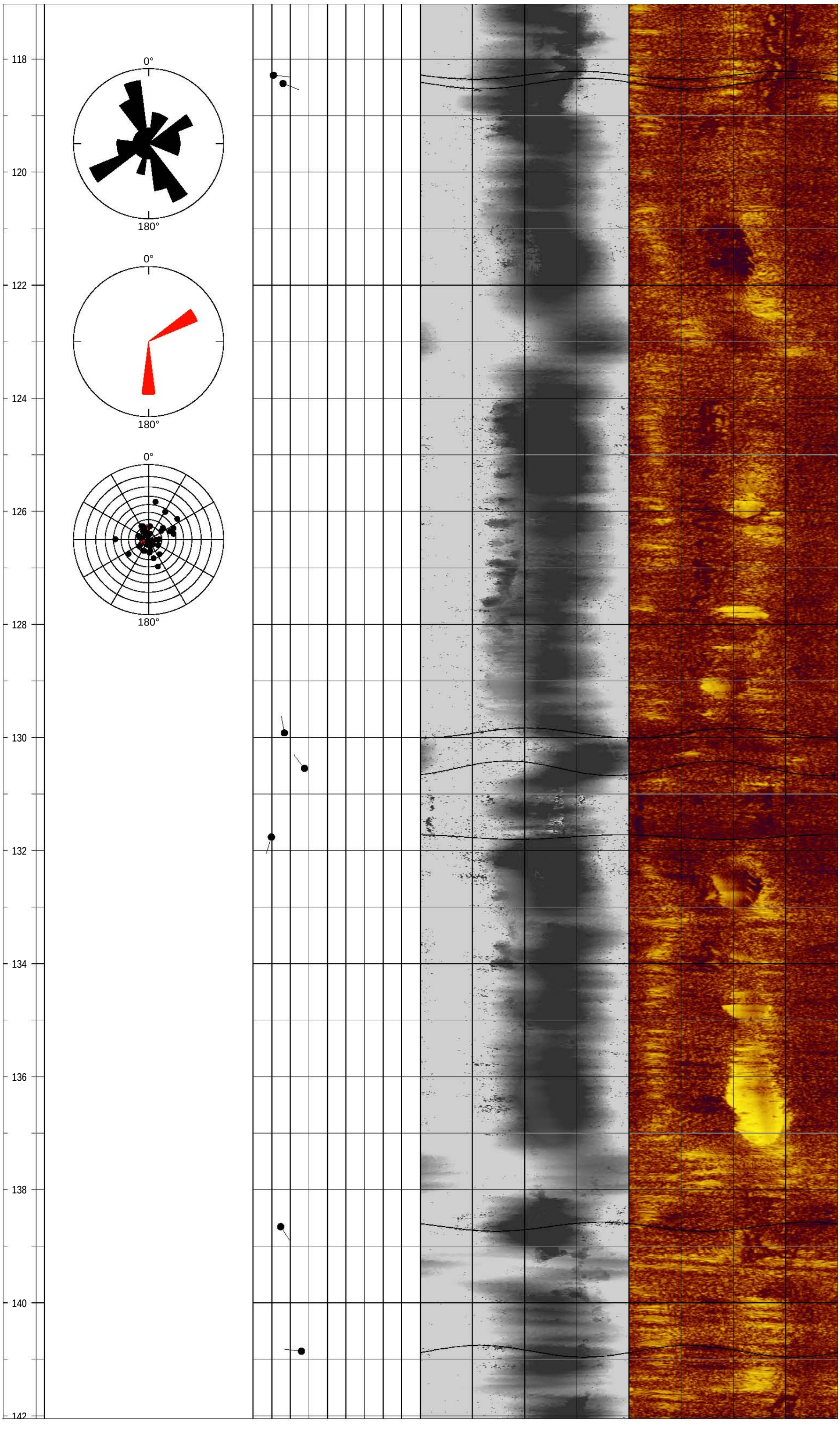
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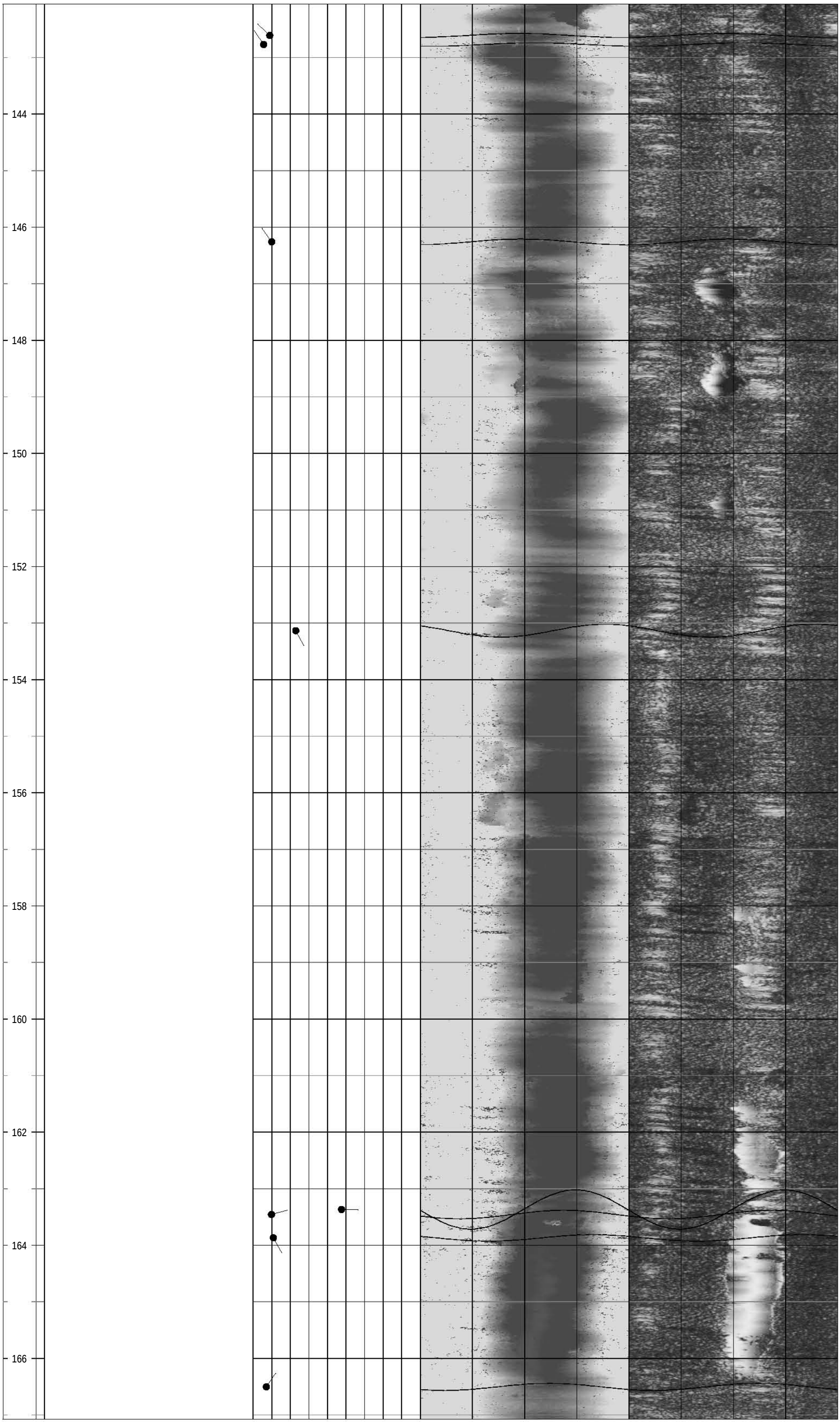
R2-0017142



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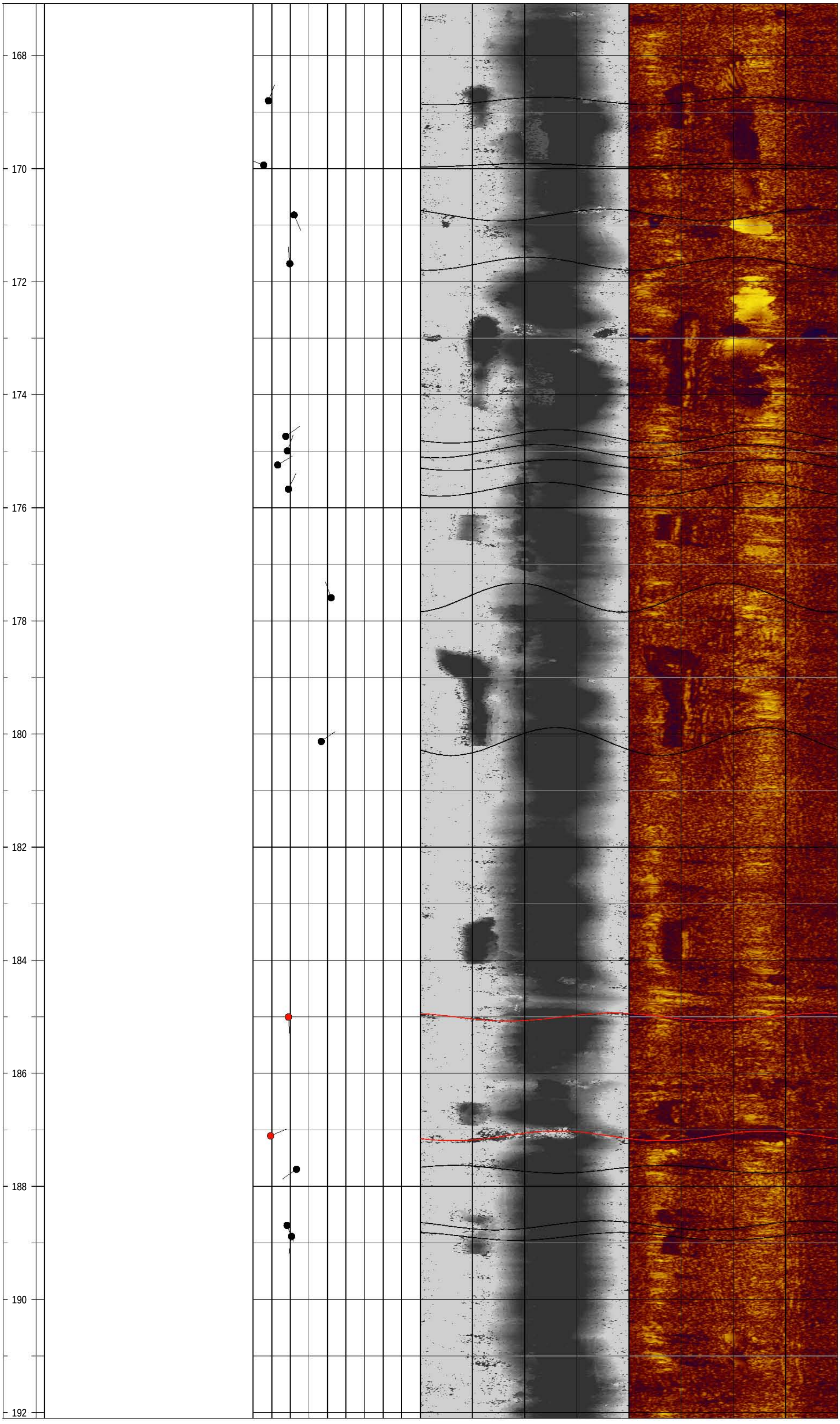

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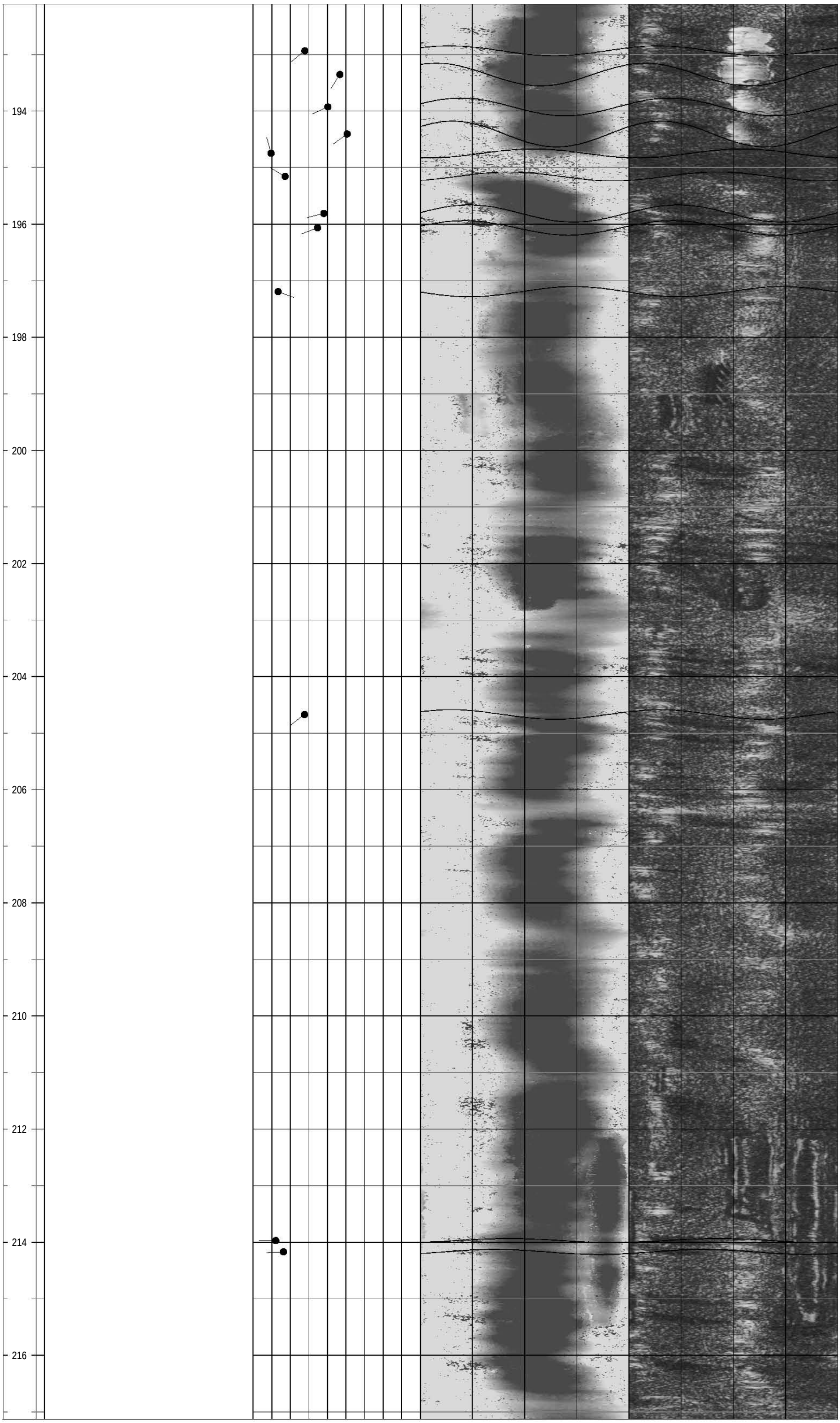

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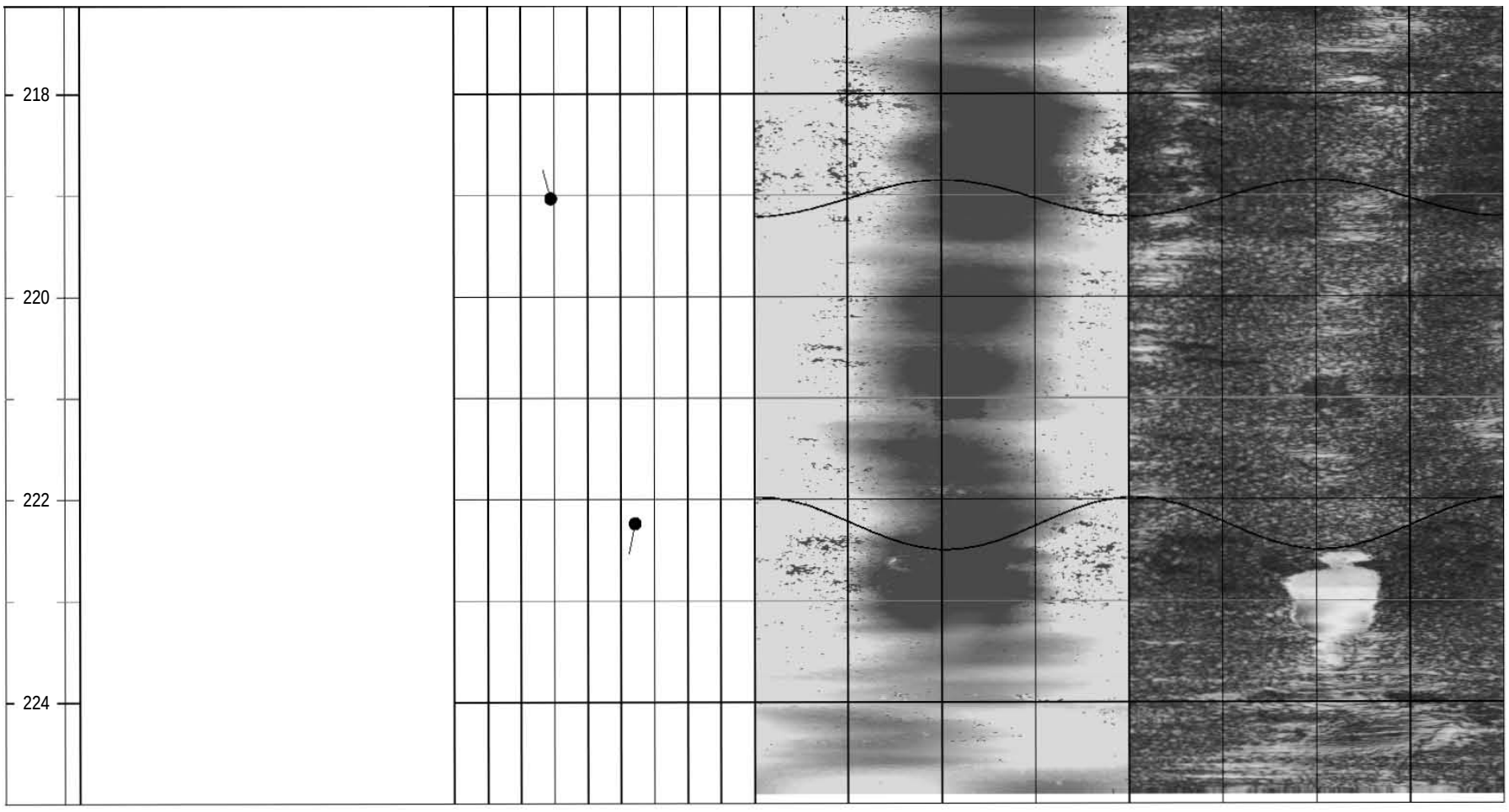
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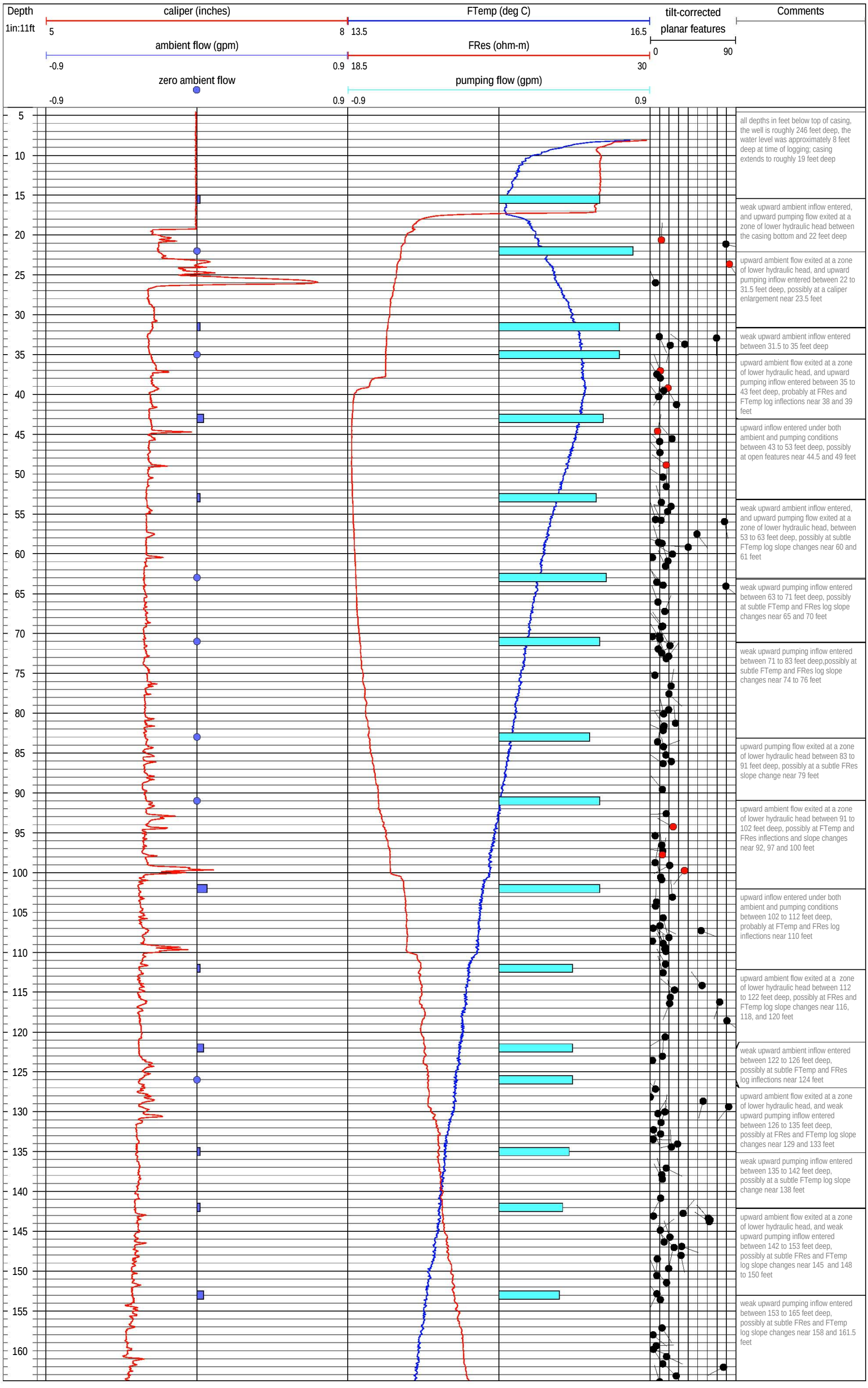
Malcolm Pirnie/South Plainfield, NJ - MW-16 - conventional logs



all depths in feet below top of casing, the well is roughly 246 feet deep, the water level was approximately 8 feet deep at time of logging; casing extends to roughly 19 feet deep

weak upward ambient inflow entered, and upward pumping flow exited at a zone of lower hydraulic head between the casing bottom and 22 feet deep

upward ambient flow exited at a zone of lower hydraulic head, and upward pumping inflow entered between 22 to 31.5 feet deep, possibly at a caliper enlargement near 23.5 feet

weak upward ambient inflow entered between 31.5 to 35 feet deep

upward ambient flow exited at a zone of lower hydraulic head, and upward pumping inflow entered between 35 to 43 feet deep, probably at FRes and FTemp log inflections near 38 and 39 feet

upward inflow entered under both ambient and pumping conditions between 43 to 53 feet deep, possibly at open features near 44.5 and 49 feet

weak upward ambient inflow entered, and upward pumping flow exited at a zone of lower hydraulic head, between 53 to 63 feet deep, possibly at subtle FTemp log slope changes near 60 and 61 feet

weak upward pumping inflow entered between 63 to 71 feet deep, possibly at subtle FTemp and FRes log slope changes near 65 and 70 feet

weak upward pumping inflow entered between 71 to 83 feet deep,possibly at subtle FTemp and FRes log slope changes near 74 to 76 feet

upward pumping flow exited at a zone of lower hydraulic head between 83 to 91 feet deep, possibly at a subtle FRes slope change near 79 feet

upward ambient flow exited at a zone of lower hydraulic head between 91 to 102 feet deep, possibly at FTemp and FRes inflections and slope changes near 92, 97 and 100 feet

upward inflow entered under both ambient and pumping conditions between 102 to 112 feet deep, probably at FTemp and FRes log inflections near 110 feet

upward ambient flow exited at a zone of lower hydraulic head between 112 to 122 feet deep, possibly at FRes and FTemp log slope changes near 116, 118, and 120 feet

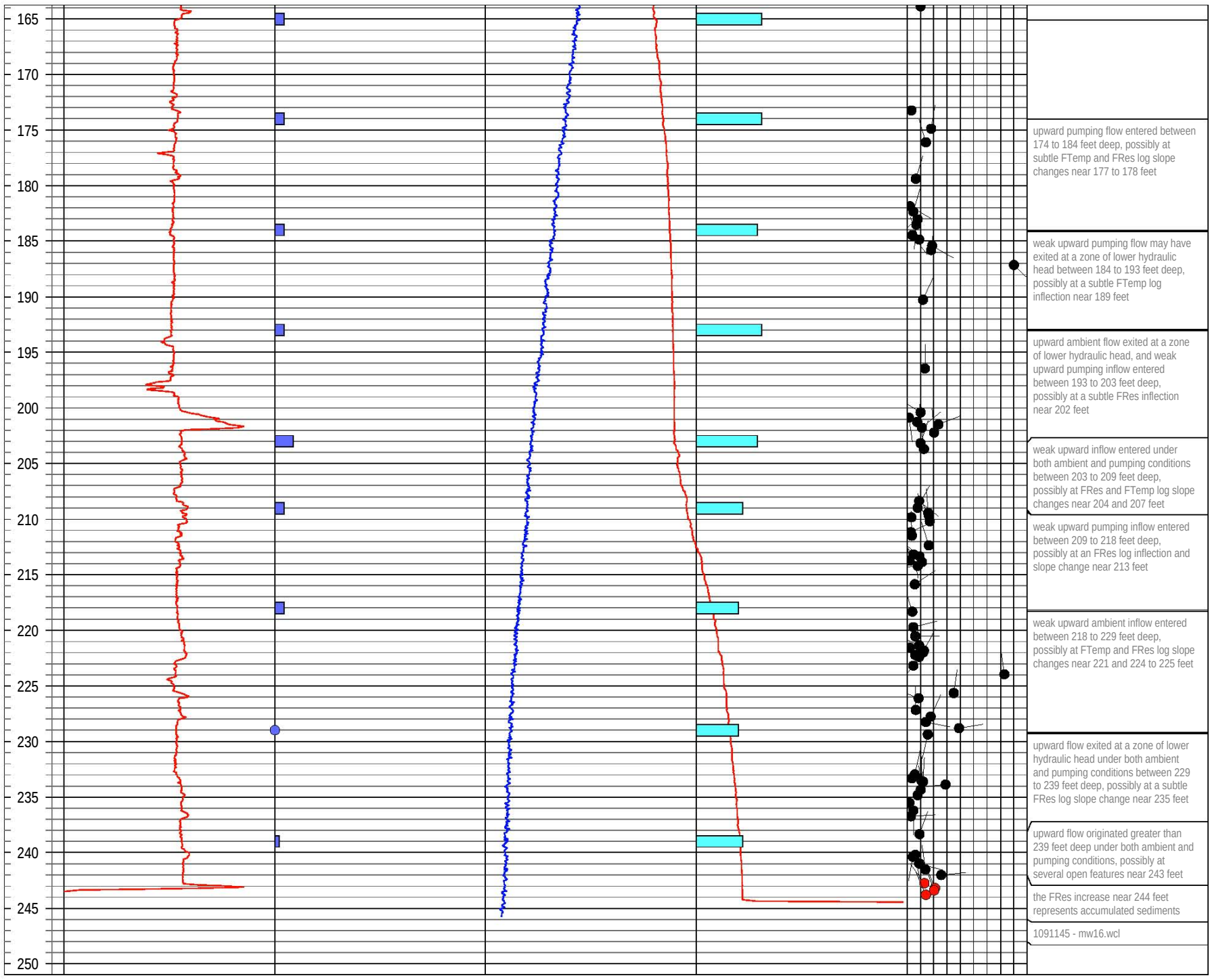
weak upward ambient inflow entered between 122 to 126 feet deep, possibly at subtle FTemp and FRes log inflections near 124 feet

upward ambient flow exited at a zone of lower hydraulic head, and weak upward pumping inflow entered between 126 to 135 feet deep, possibly at FRes and FTemp log slope changes near 129 and 133 feet

weak upward pumping inflow entered between 135 to 142 feet deep, possibly at a subtle FTemp log slope change near 138 feet

upward ambient flow exited at a zone of lower hydraulic head, and weak upward pumping inflow entered between 142 to 153 feet deep, possibly at subtle FRes and FTemp log slope changes near 145 and 148 to 150 feet

weak upward pumping inflow entered between 153 to 165 feet deep, possibly at subtle FRes and FTemp log slope changes near 158 and 161.5 feet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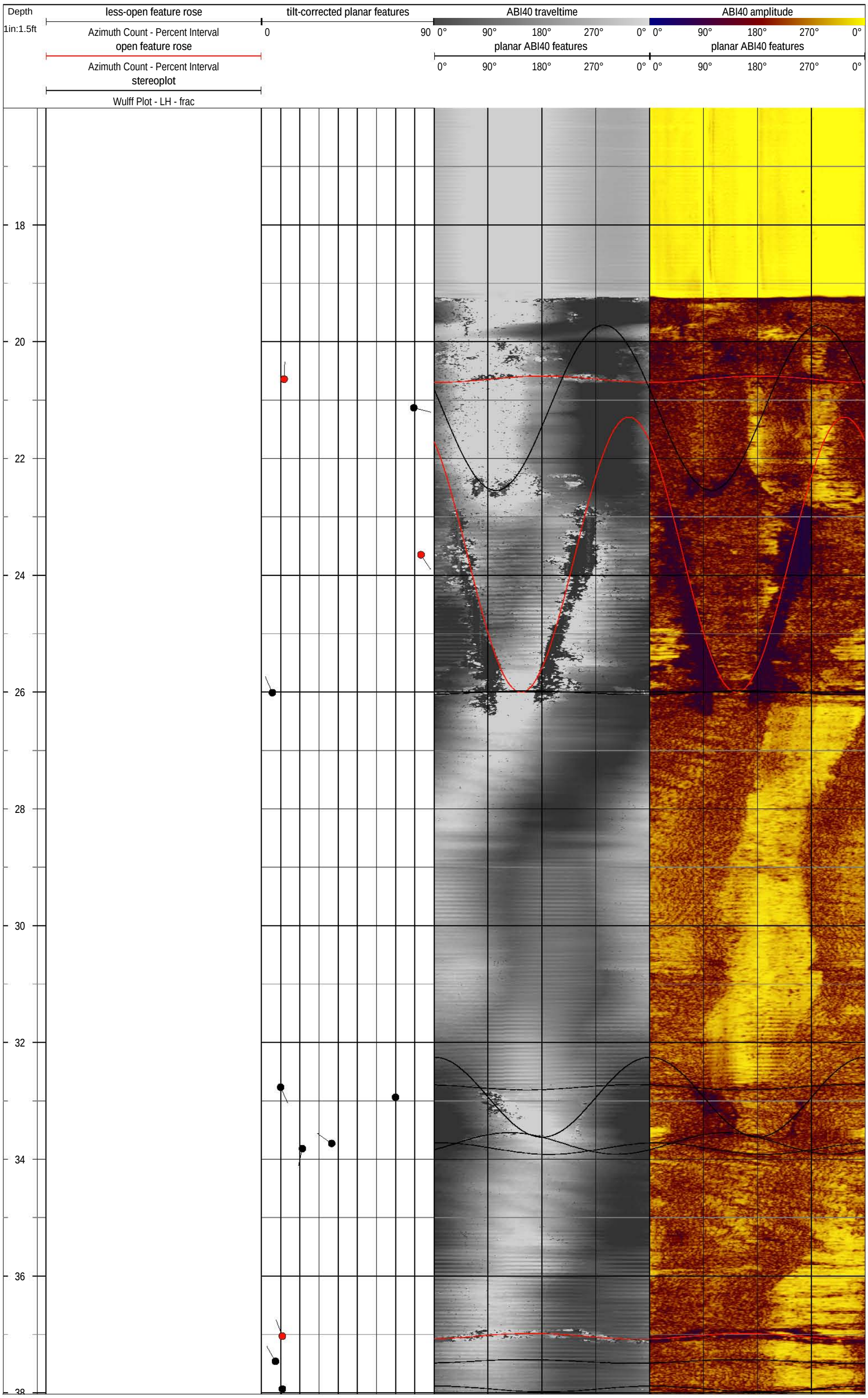
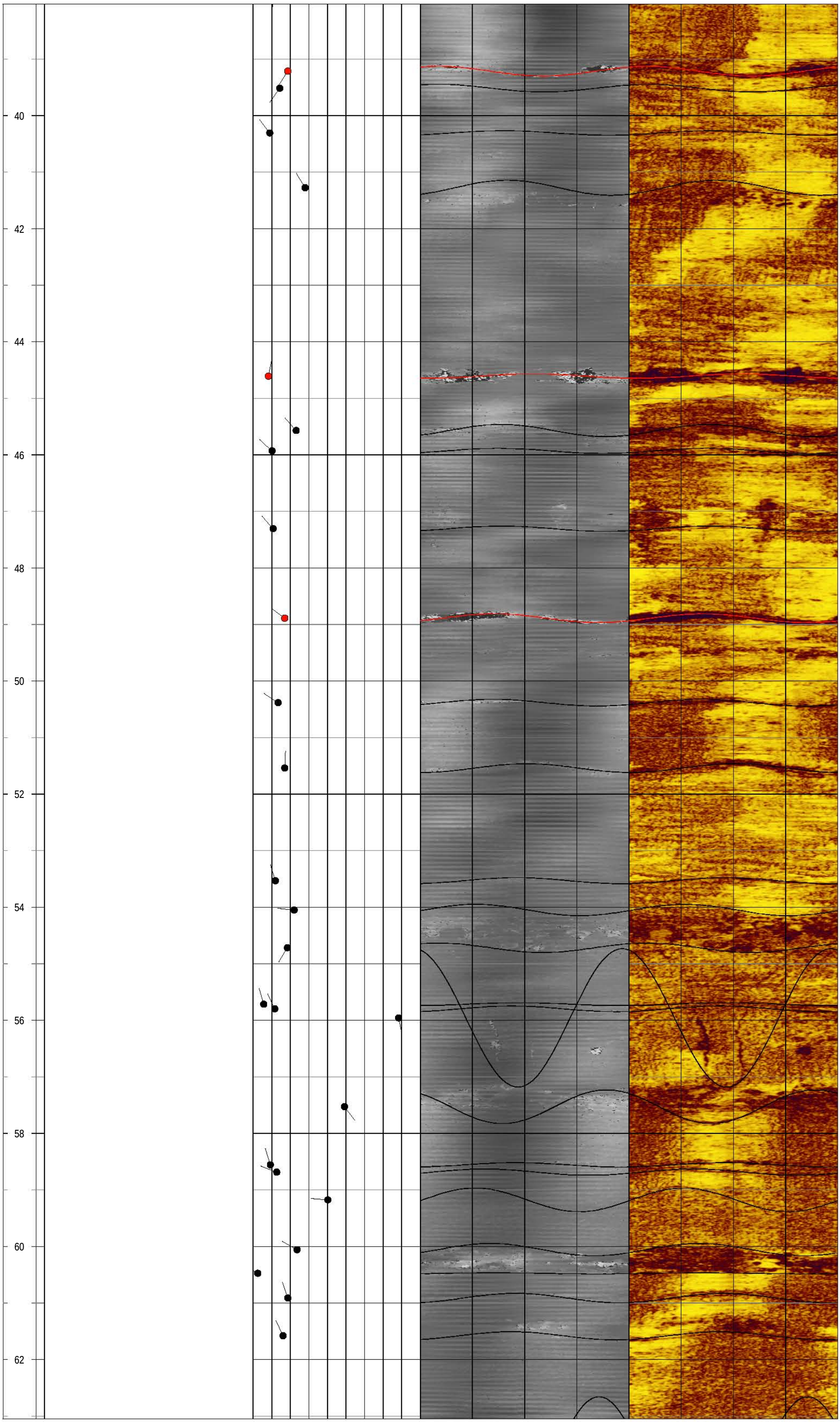
upward pumping flow entered between 174 to 184 feet deep, possibly at subtle FTemp and FRes log slope changes near 177 to 178 feet
weak upward pumping flow may have exited at a zone of lower hydraulic head between 184 to 193 feet deep, possibly at a subtle FTemp log inflection near 189 feet
upward ambient flow exited at a zone of lower hydraulic head, and weak upward pumping inflow entered between 193 to 203 feet deep, possibly at a subtle FRes inflection near 202 feet
weak upward inflow entered under both ambient and pumping conditions between 203 to 209 feet deep, possibly at FRes and FTemp log slope changes near 204 and 207 feet
weak upward pumping inflow entered between 209 to 218 feet deep, possibly at an FRes log inflection and slope change near 213 feet
weak upward ambient inflow entered between 218 to 229 feet deep, possibly at FTemp and FRes log slope changes near 221 and 224 to 225 feet
upward flow exited at a zone of lower hydraulic head under both ambient and pumping conditions between 229 to 239 feet deep, possibly at a subtle FRes log slope change near 235 feet
upward flow originated greater than 239 feet deep under both ambient and pumping conditions, possibly at several open features near 243 feet
the FRes increase near 244 feet represents accumulated sediments
1091145 - mw16.wcl

Malcolm Pirnie/South Plainfield, NJ - MW-16 - acoustic televiewer log

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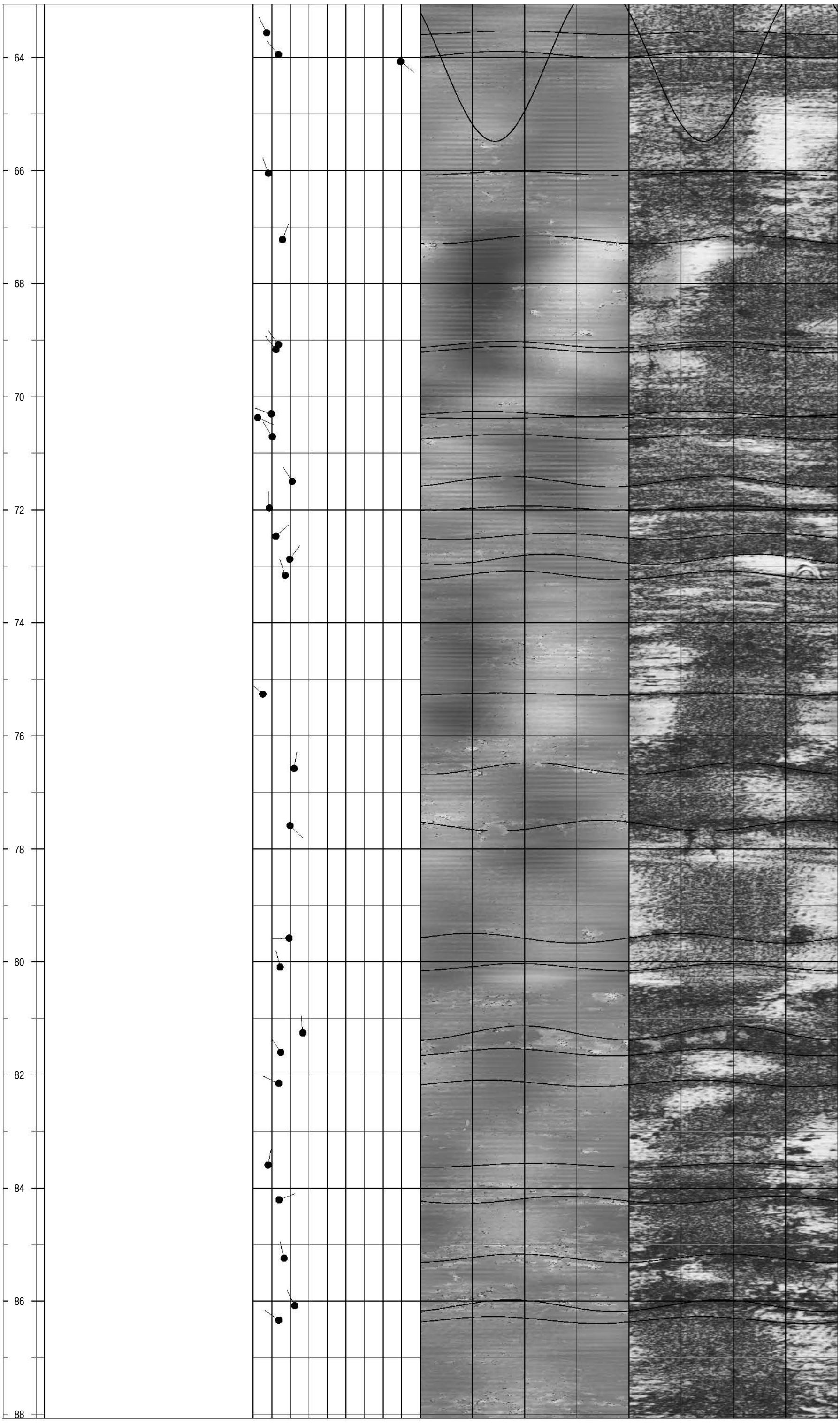
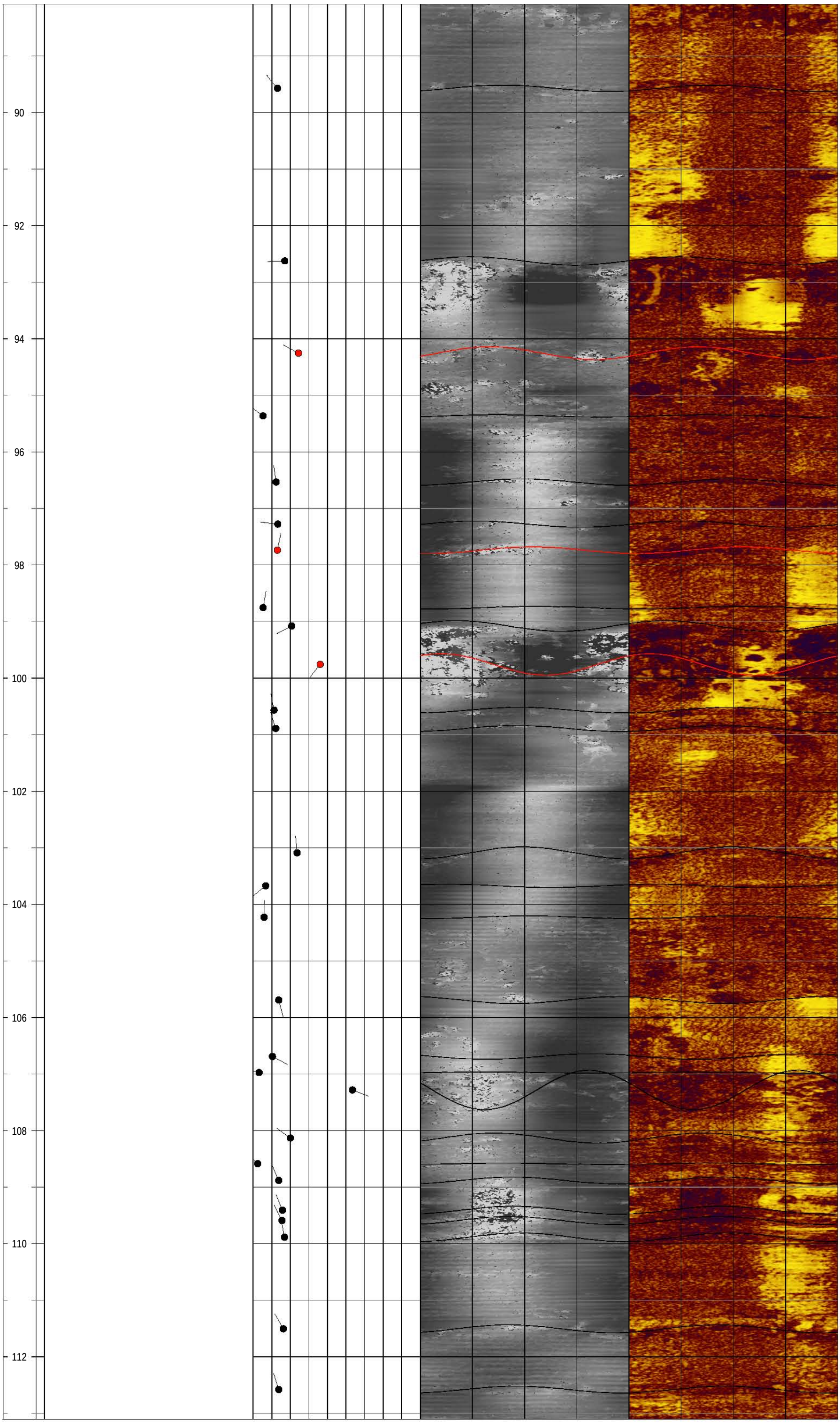
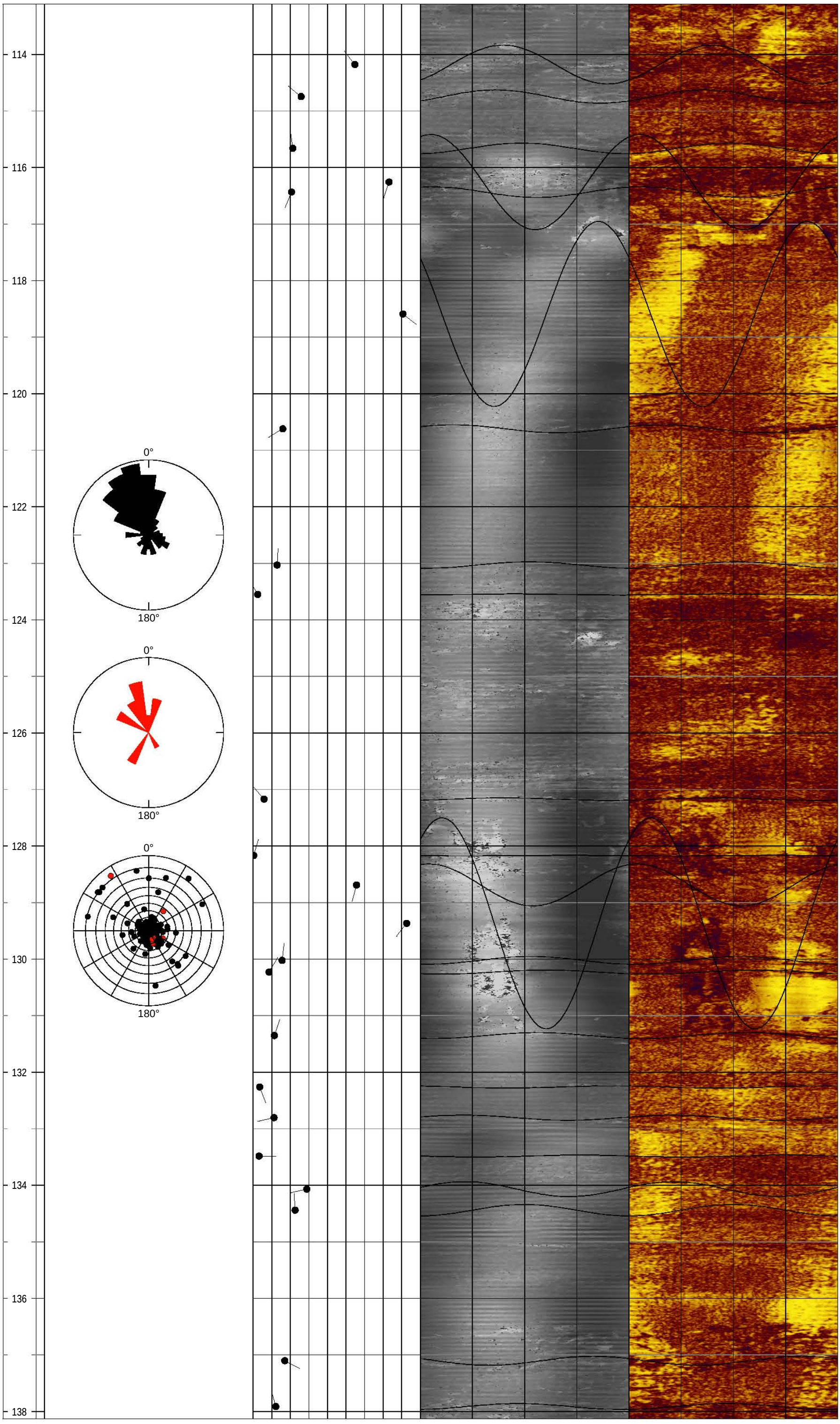


R2-0017151



R2-0017152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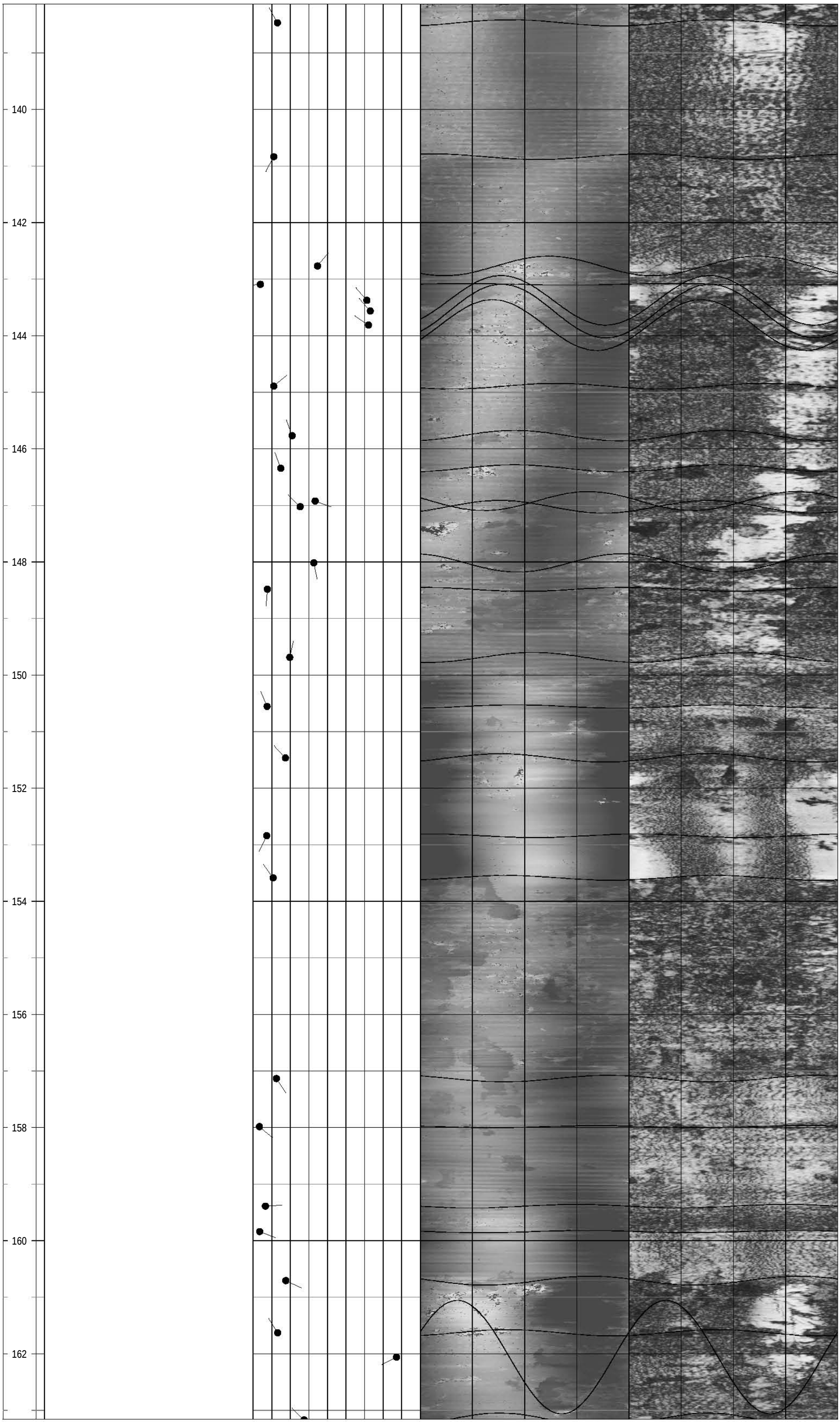
R2-0017153



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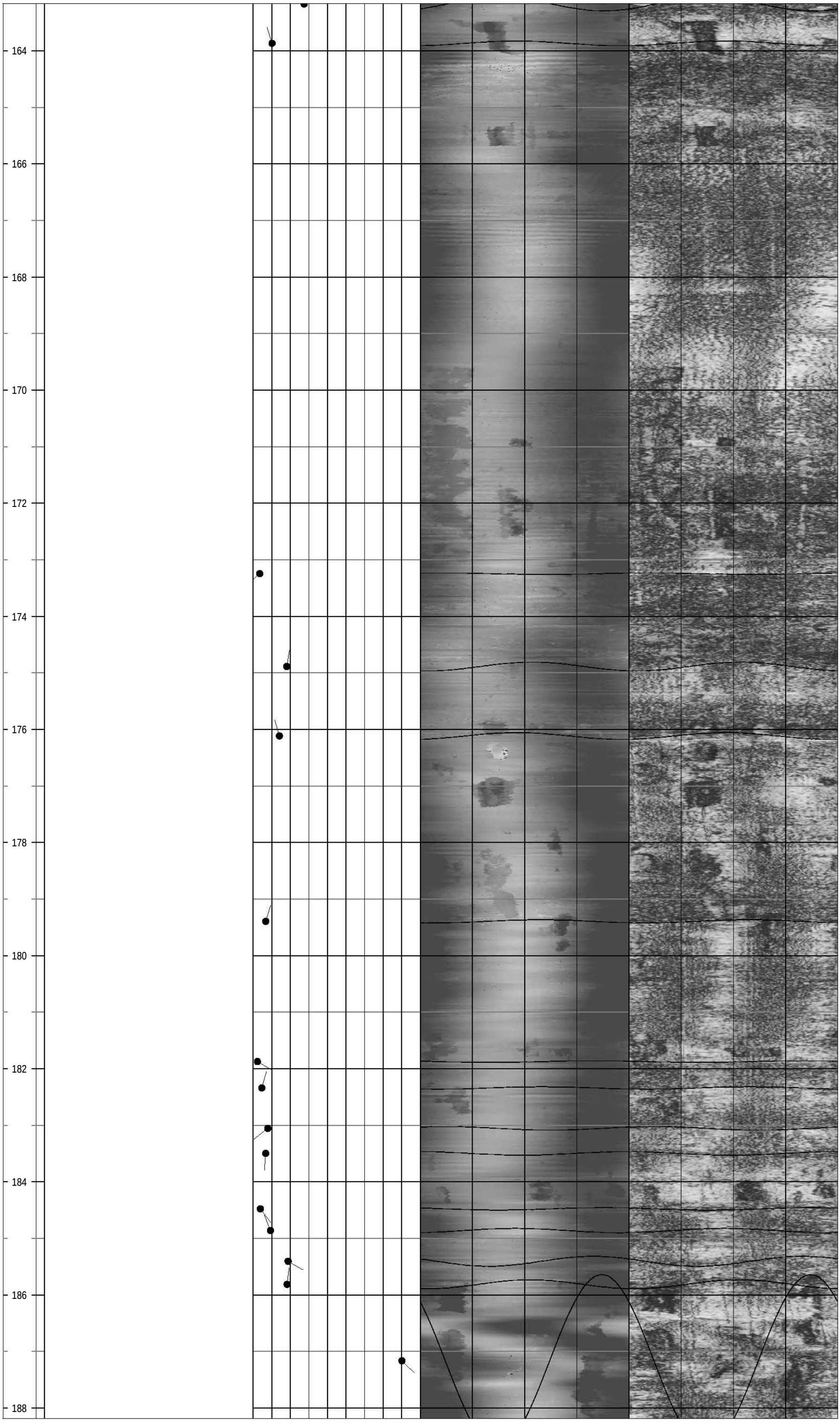
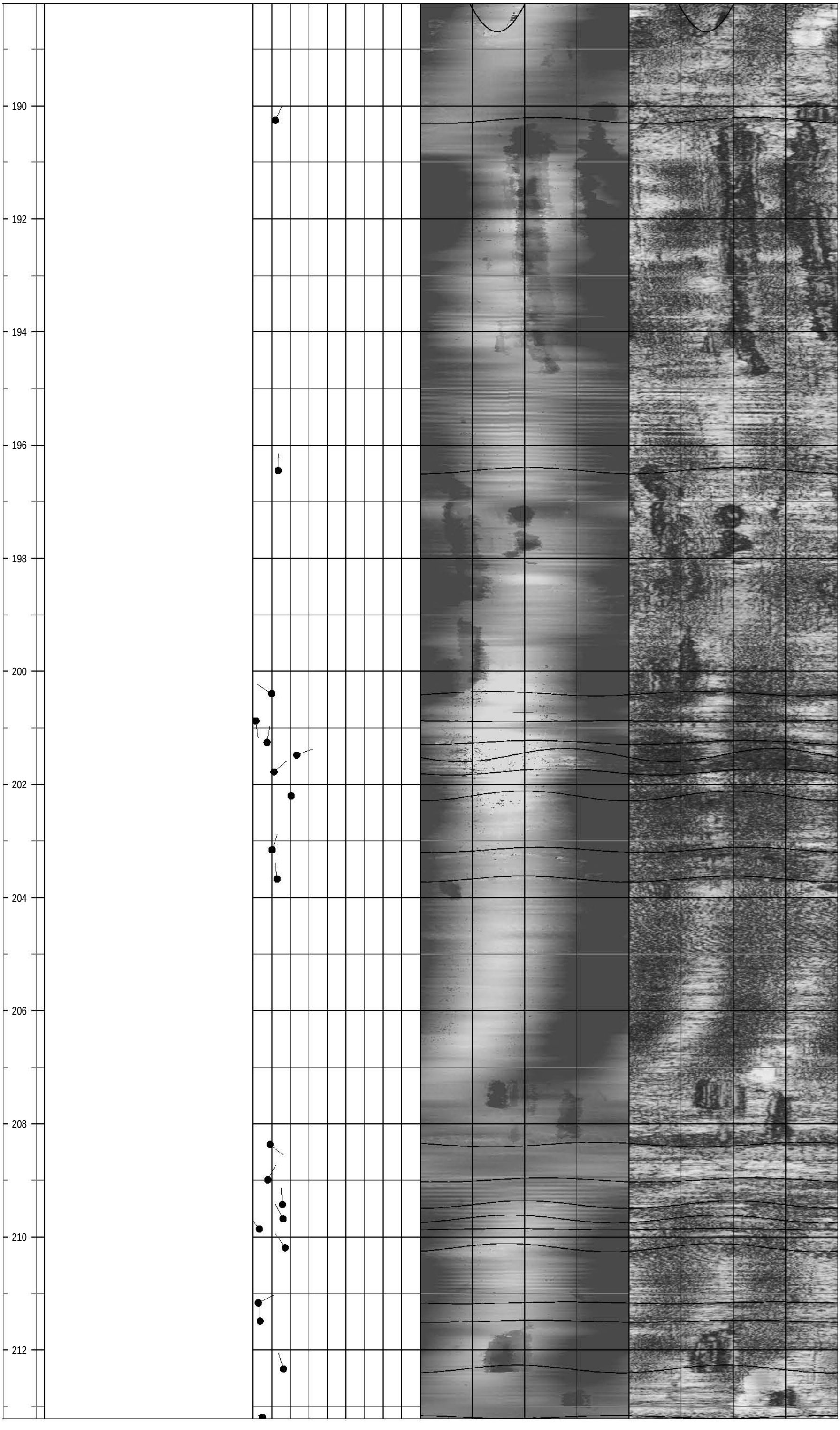
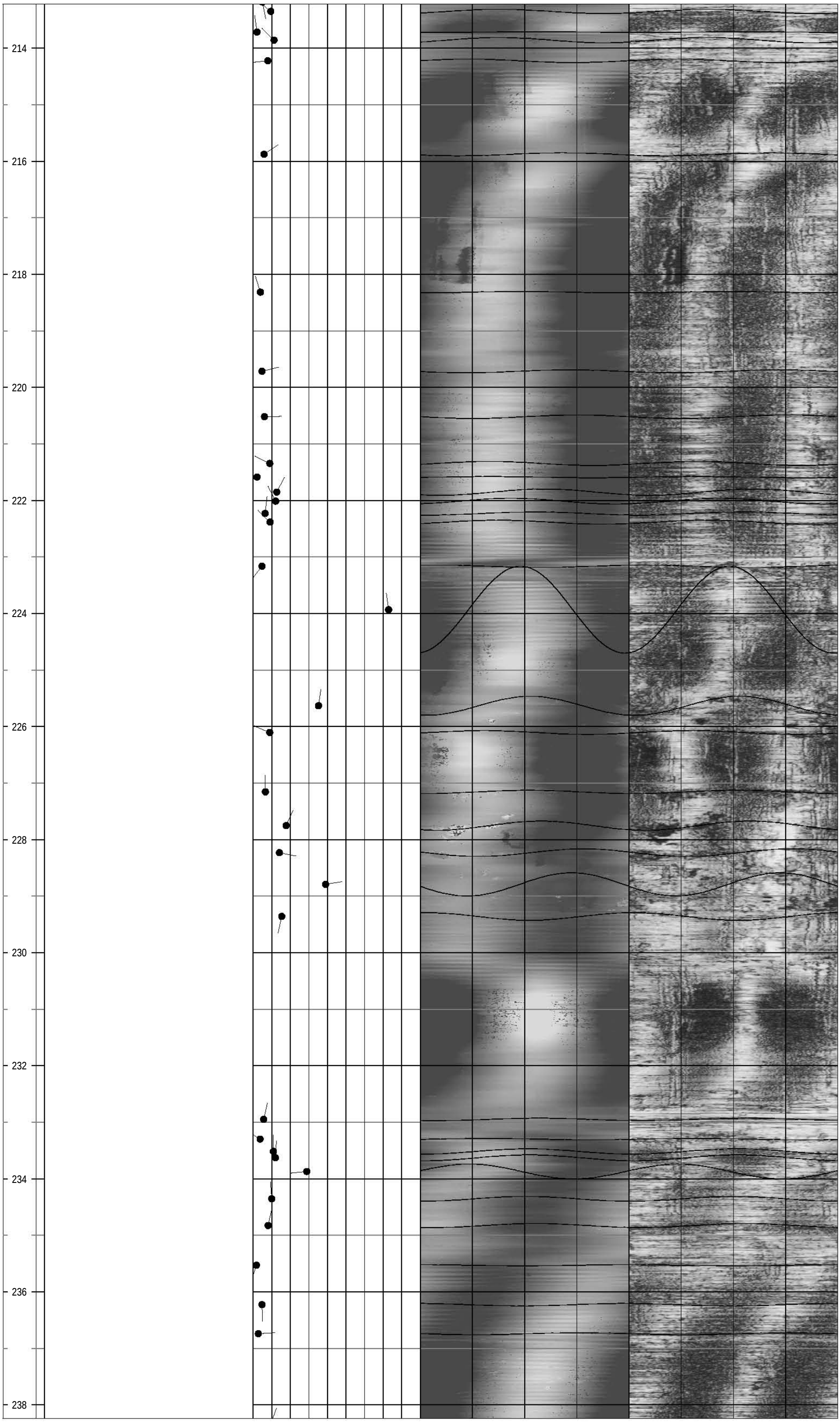


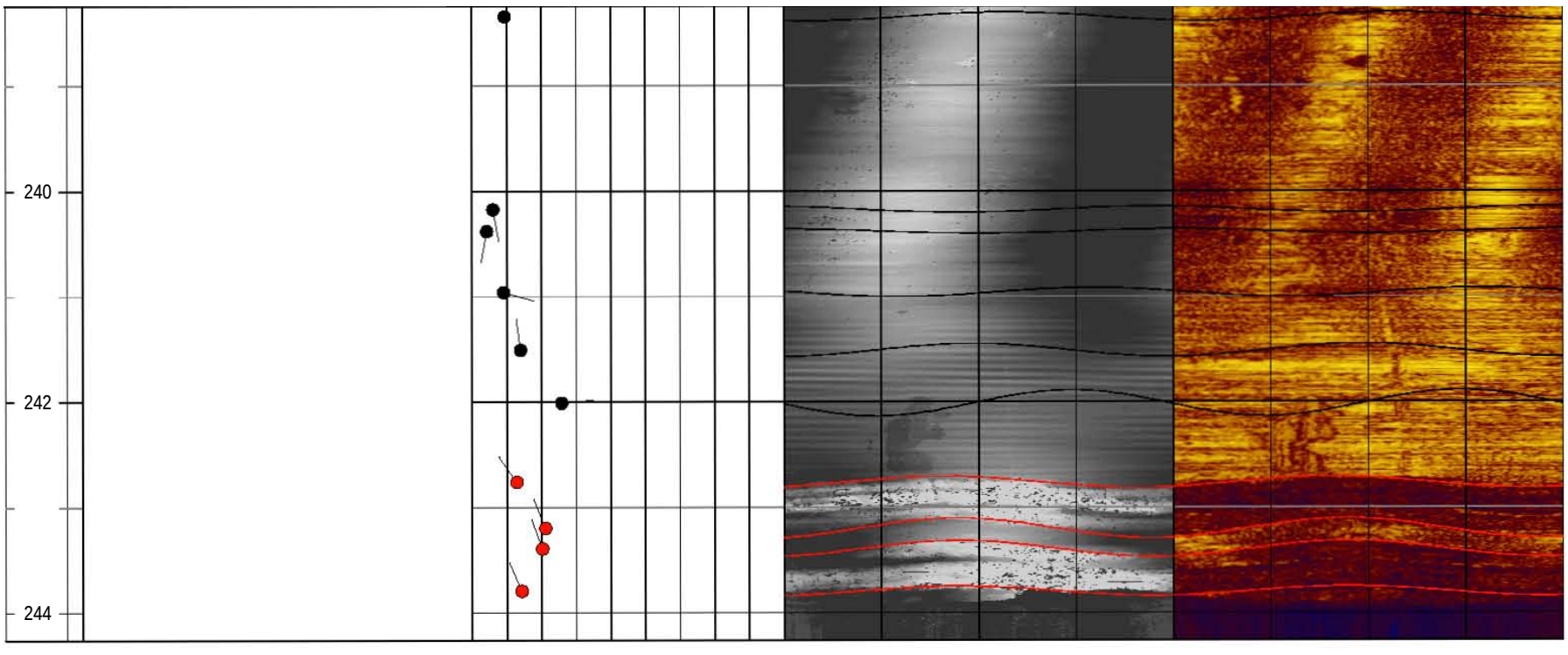
R2-0017155



R2-0017156



R2-0017157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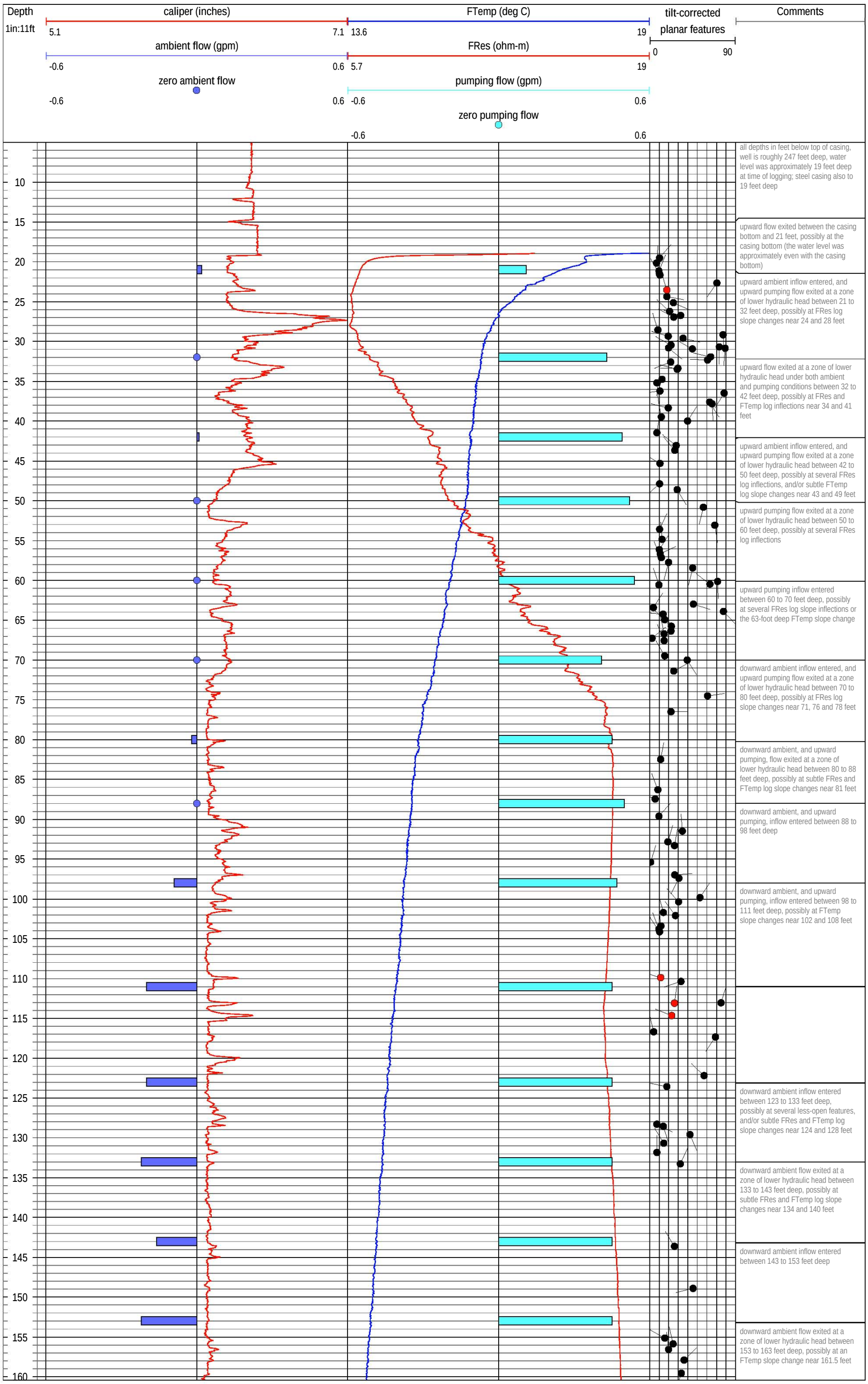
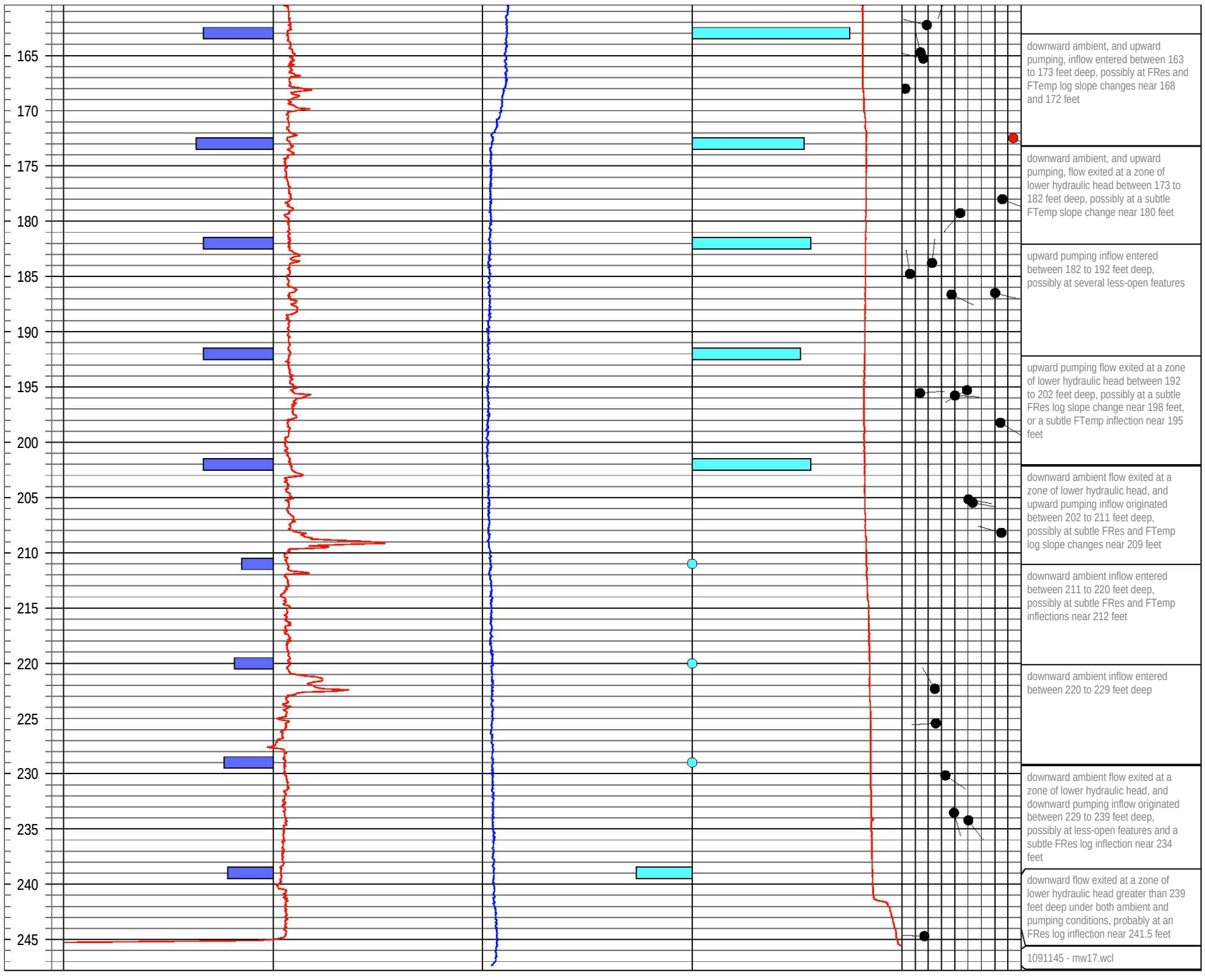
Malcolm Pirnie/South Plainfield, NJ - MW-17 - conventional logs

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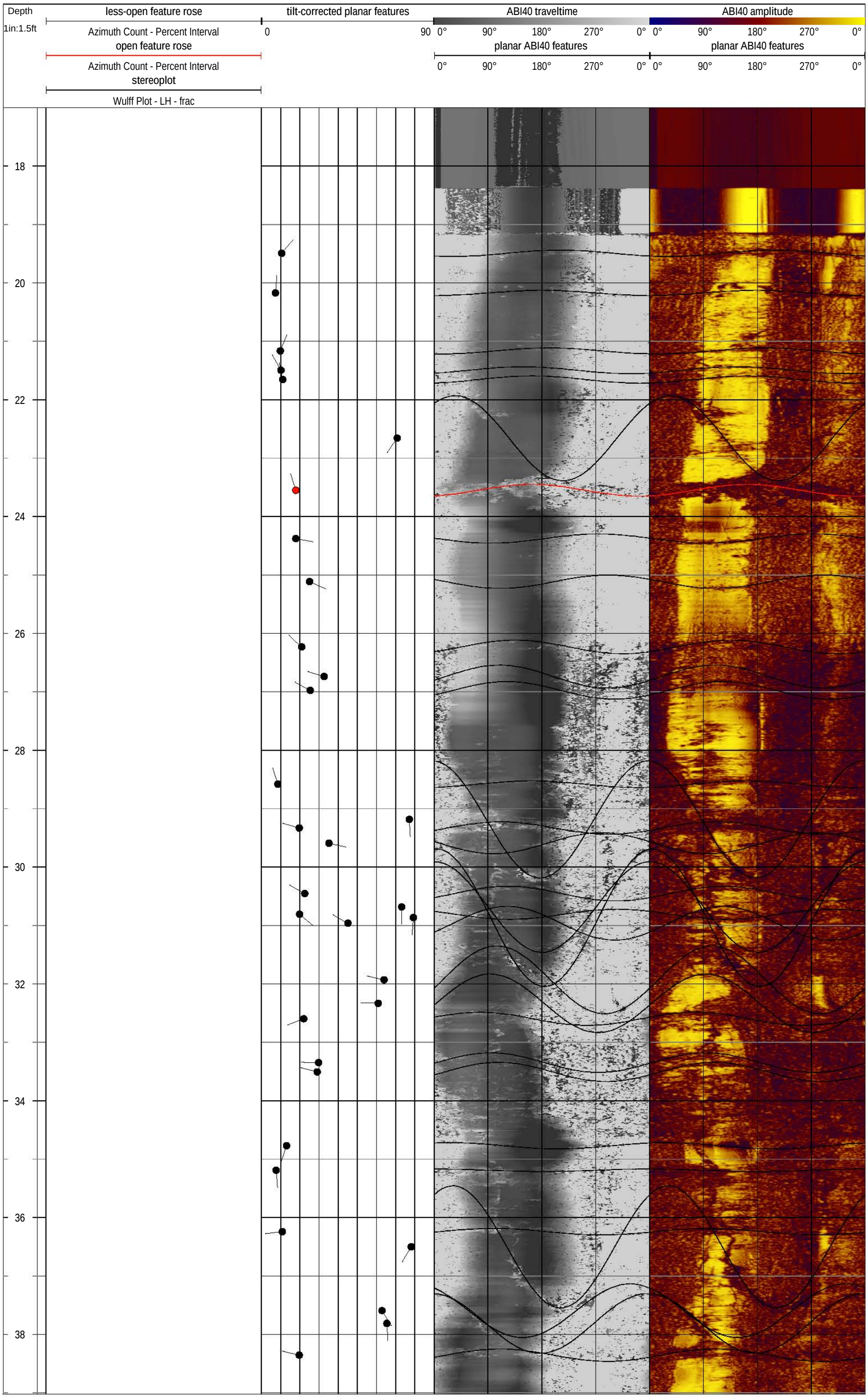
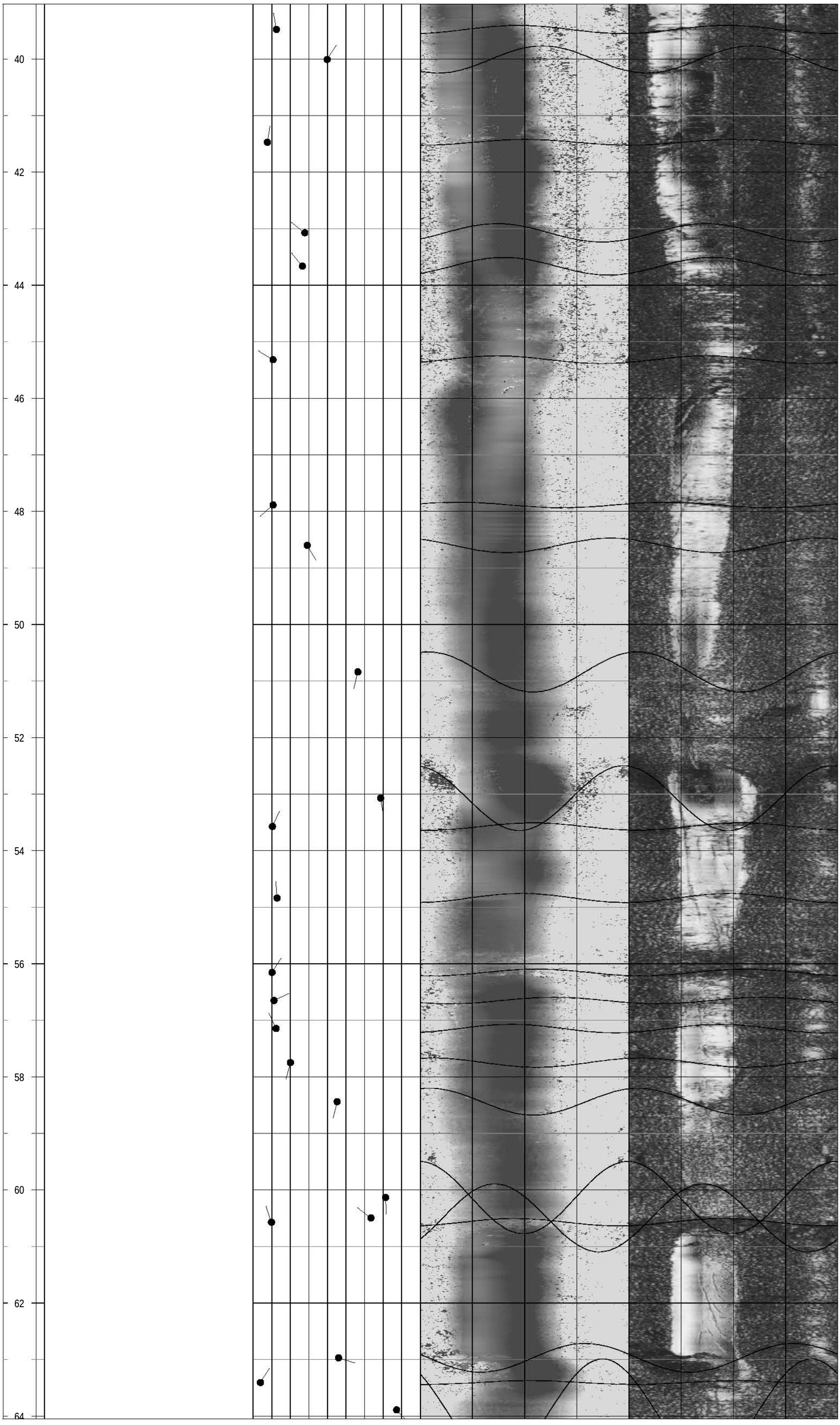
downward ambient, and upward pumping, inflow entered between 163 to 173 feet deep, possibly at FRes and FTemp log slope changes near 168 and 172 feet
downward ambient, and upward pumping, flow exited at a zone of lower hydraulic head between 173 to 182 feet deep, possibly at a subtle FTemp slope change near 180 feet
upward pumping inflow entered between 182 to 192 feet deep, possibly at several less-open features
upward pumping flow exited at a zone of lower hydraulic head between 192 to 202 feet deep, possibly at a subtle FRes log slope change near 198 feet, or a subtle FTemp inflection near 195 feet
downward ambient flow exited at a zone of lower hydraulic head, and upward pumping inflow originated between 202 to 211 feet deep, possibly at subtle FRes and FTemp log slope changes near 209 feet
downward ambient inflow entered between 211 to 220 feet deep, possibly at subtle FRes and FTemp inflections near 212 feet
downward ambient inflow entered between 220 to 229 feet deep
downward ambient flow exited at a zone of lower hydraulic head, and downward pumping inflow originated between 229 to 239 feet deep, possibly at less-open features and a subtle FRes log inflection near 234 feet
downward flow exited at a zone of lower hydraulic head greater than 239 feet deep under both ambient and pumping conditions, probably at an FRes log inflection near 241.5 feet
1091145 - mw17.wcl

Malcolm Pirnie/South Plainfield, NJ - MW-17 - acoustic televiewer log



R2-0017161



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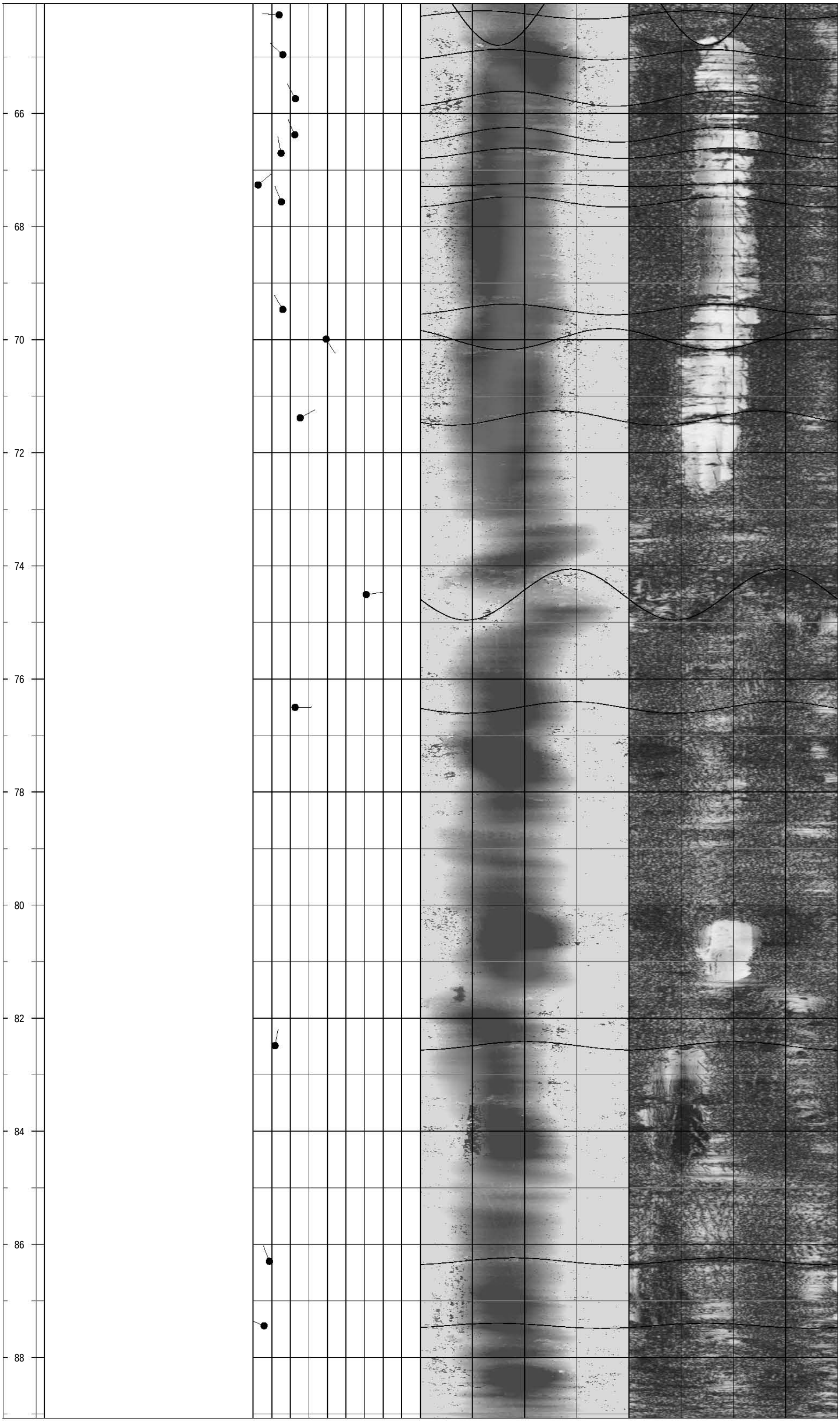

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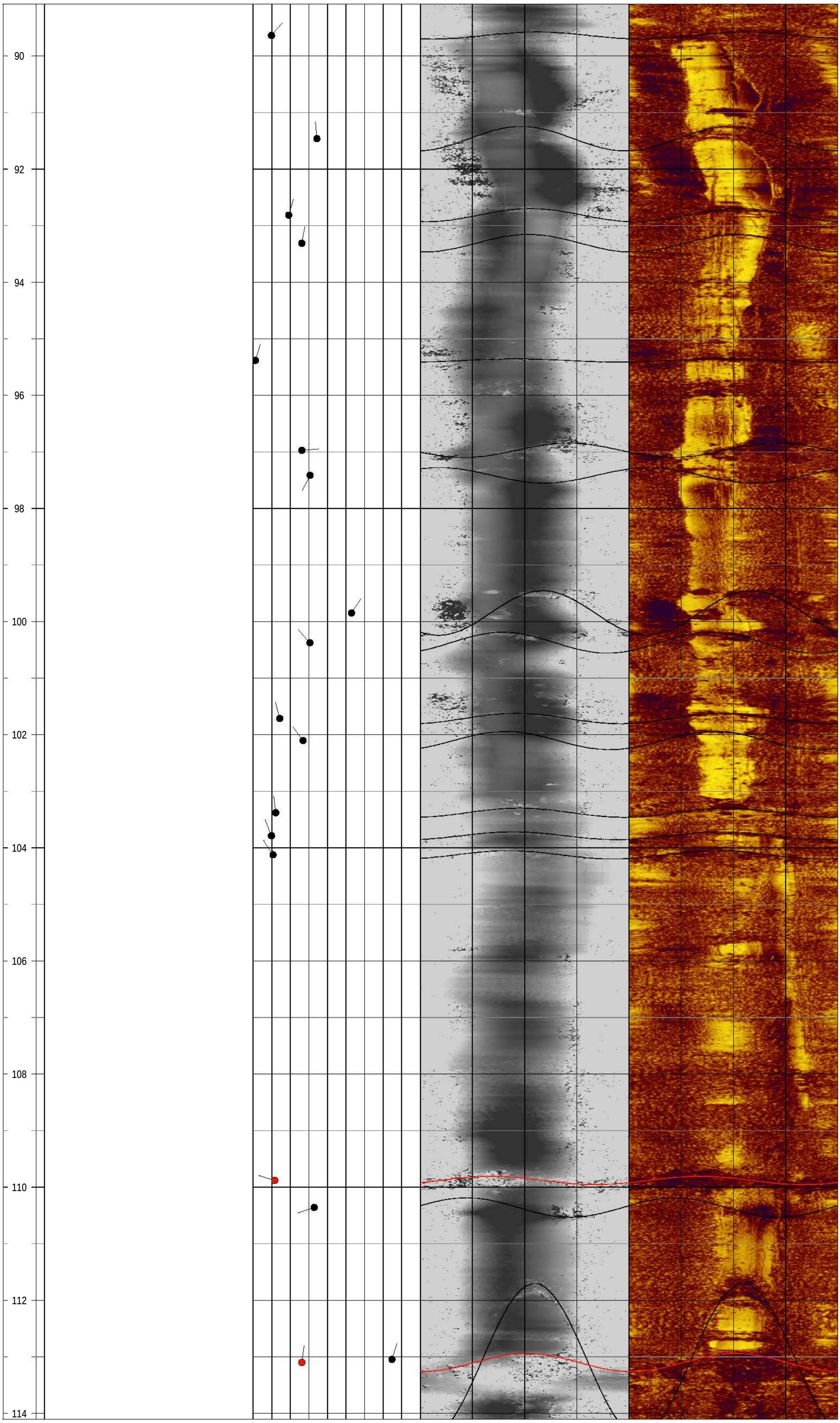

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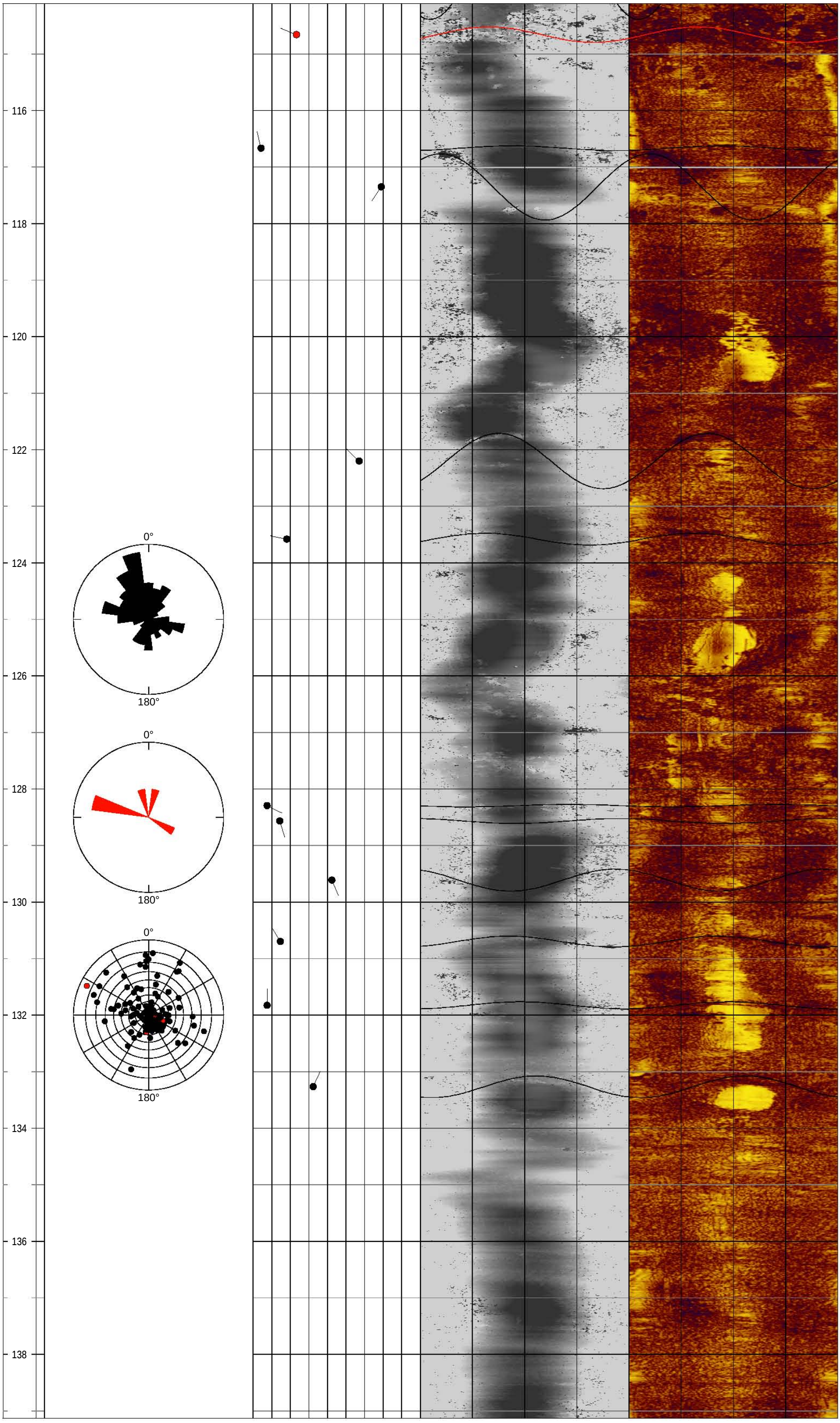

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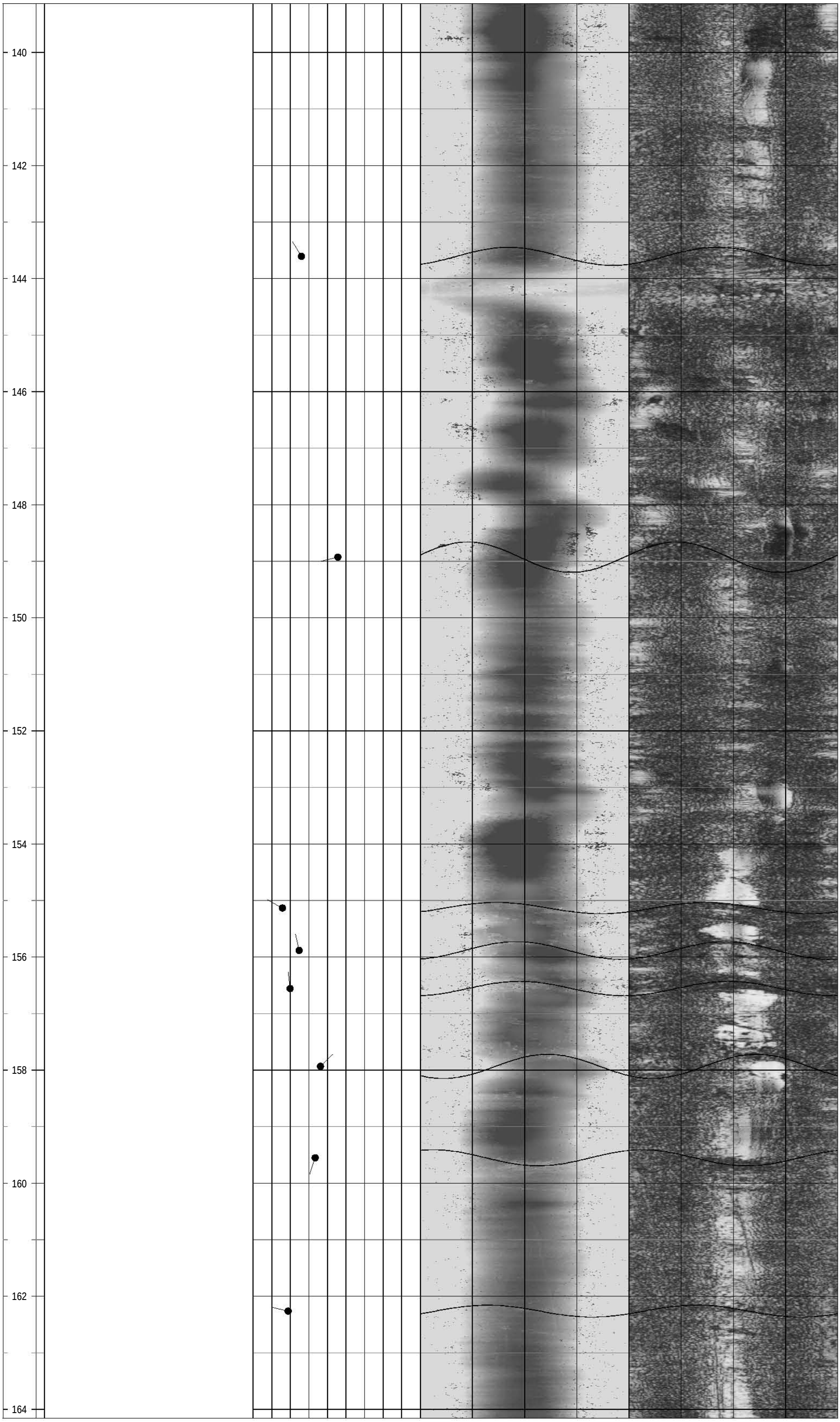

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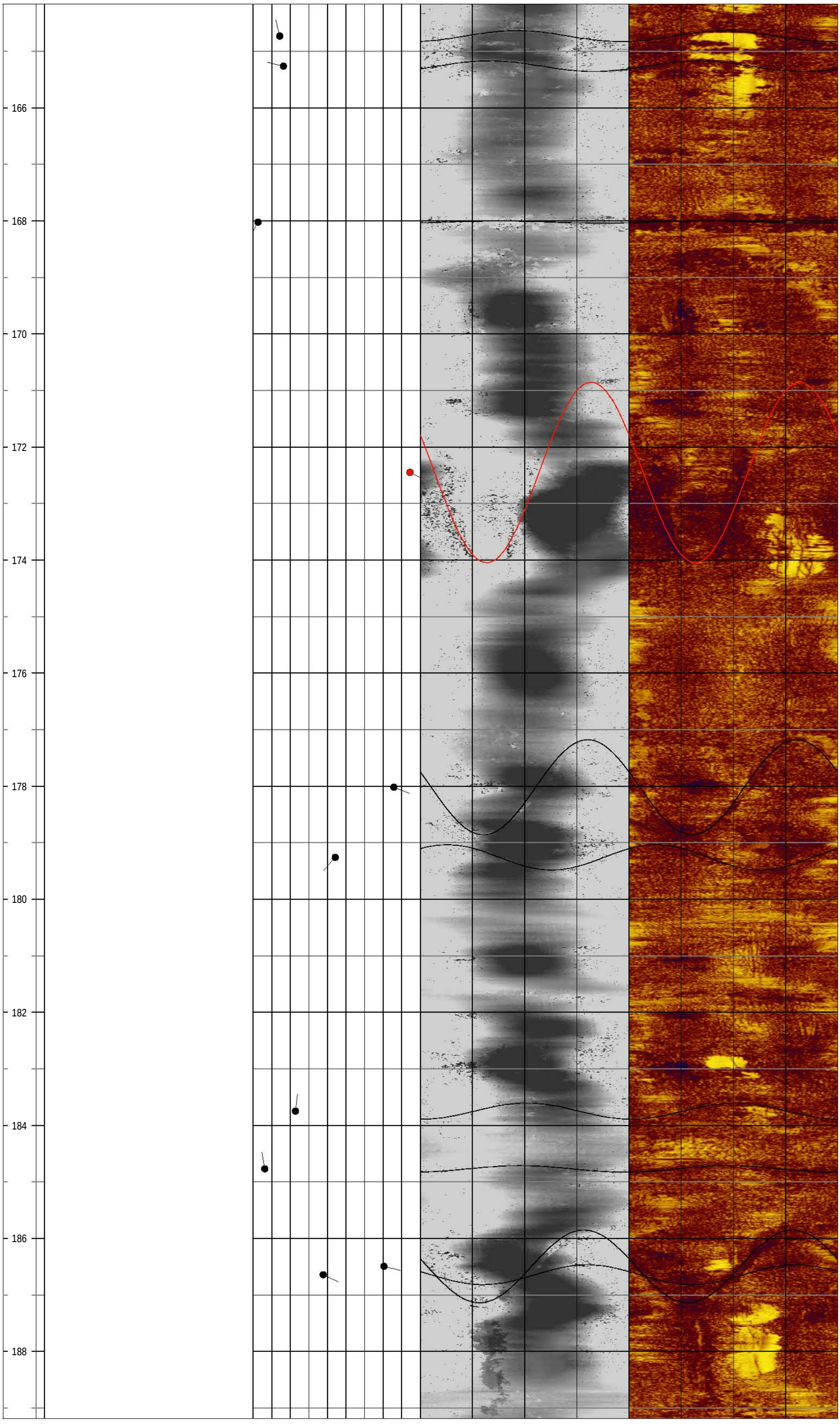

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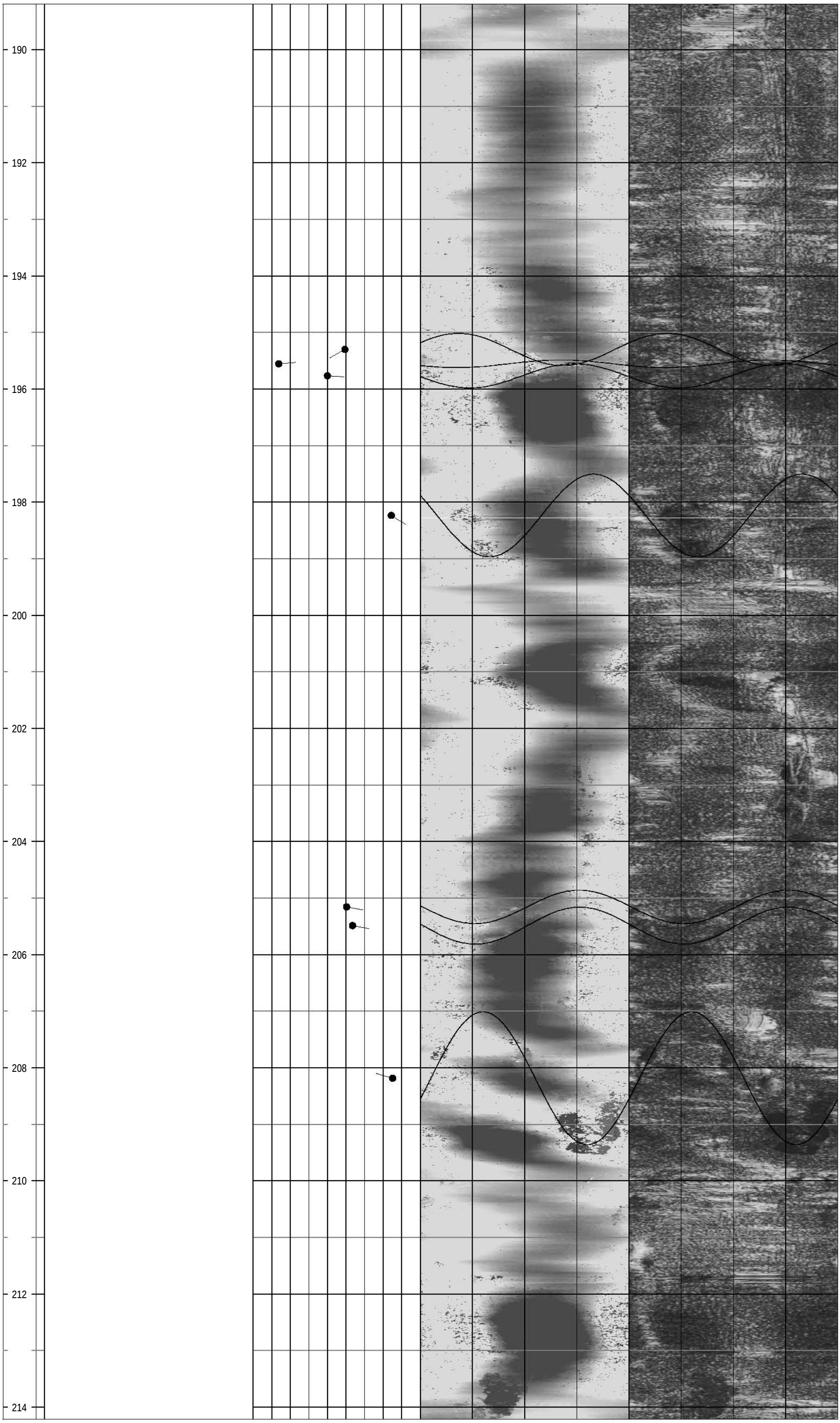

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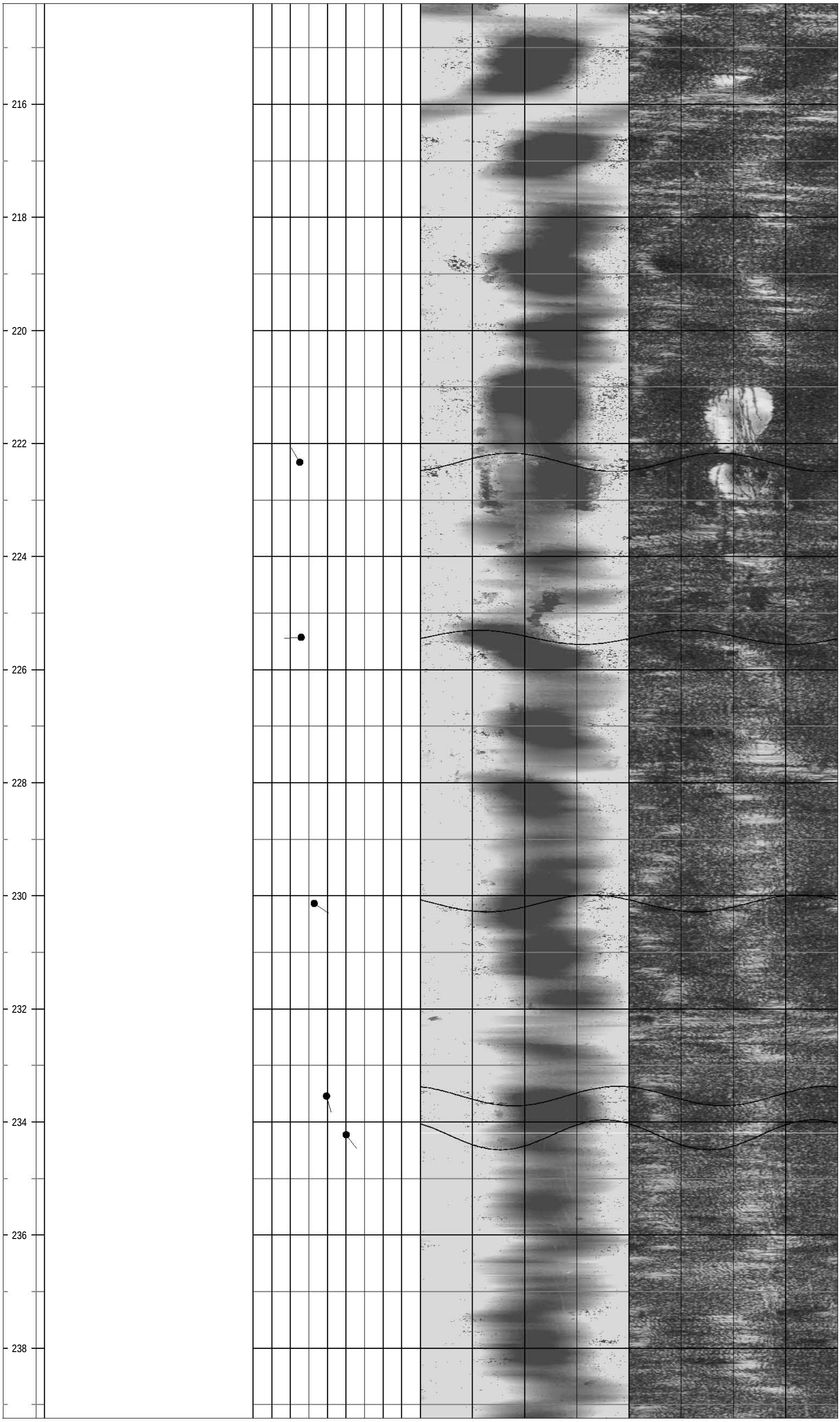
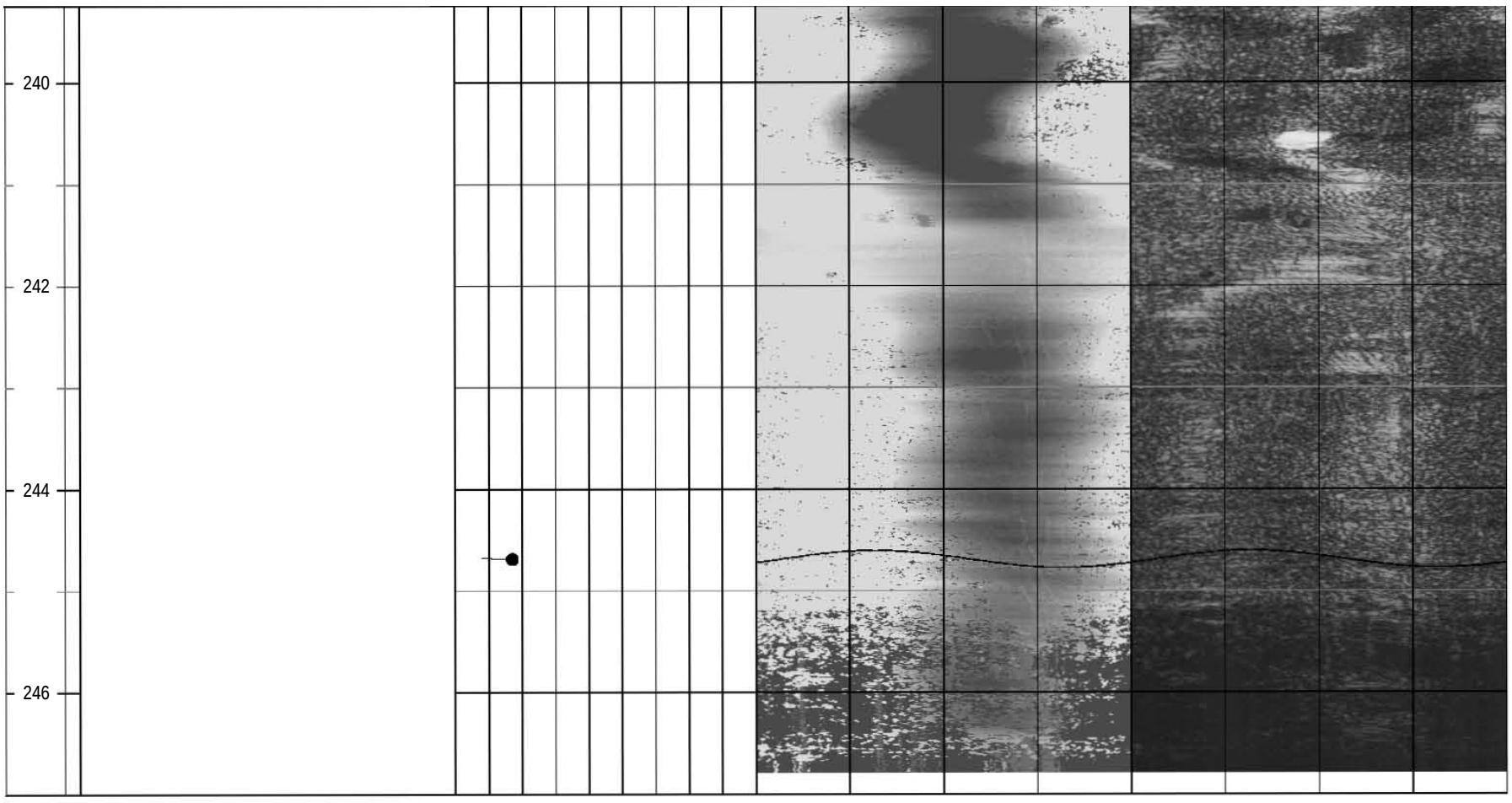


R2-0017169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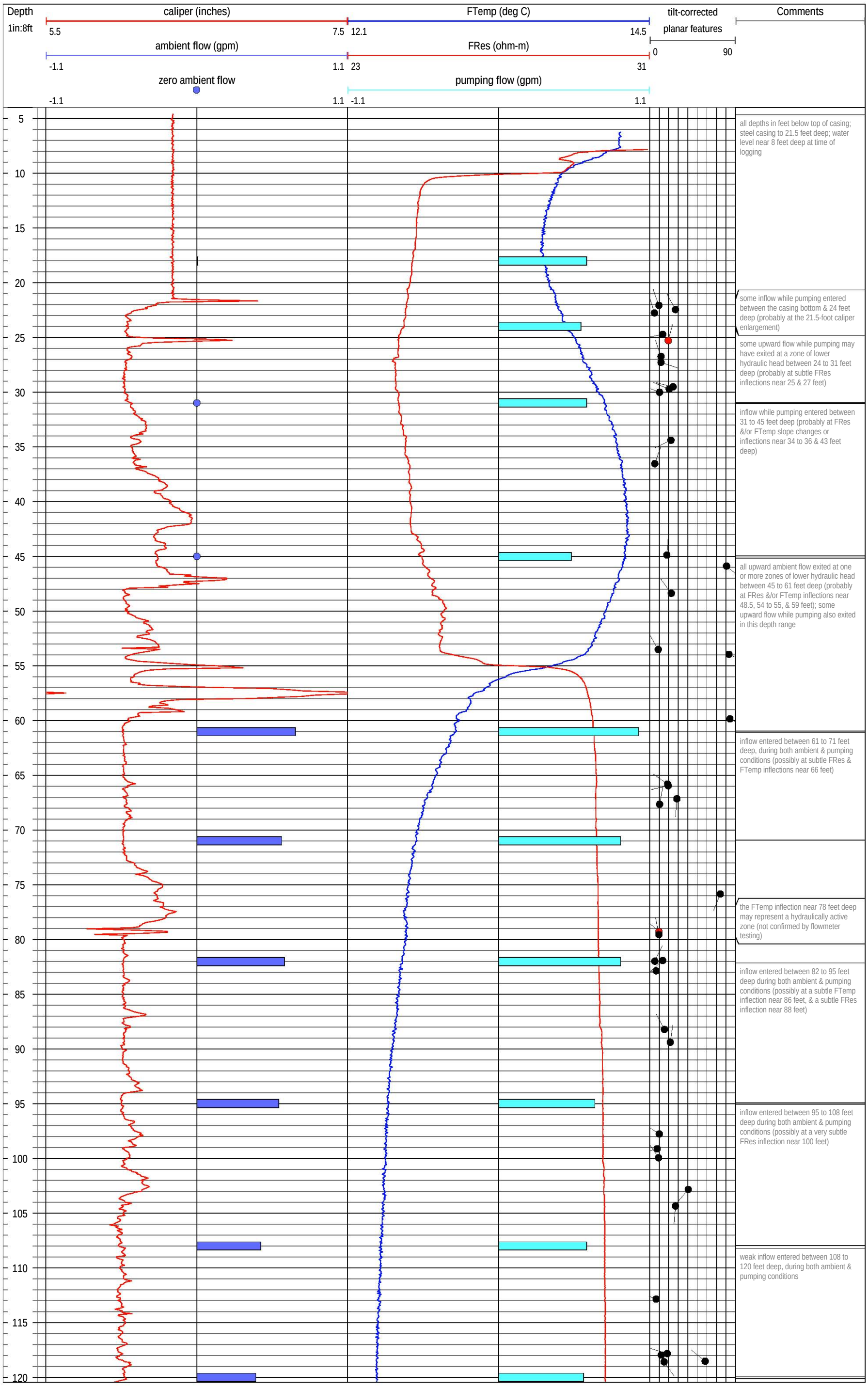
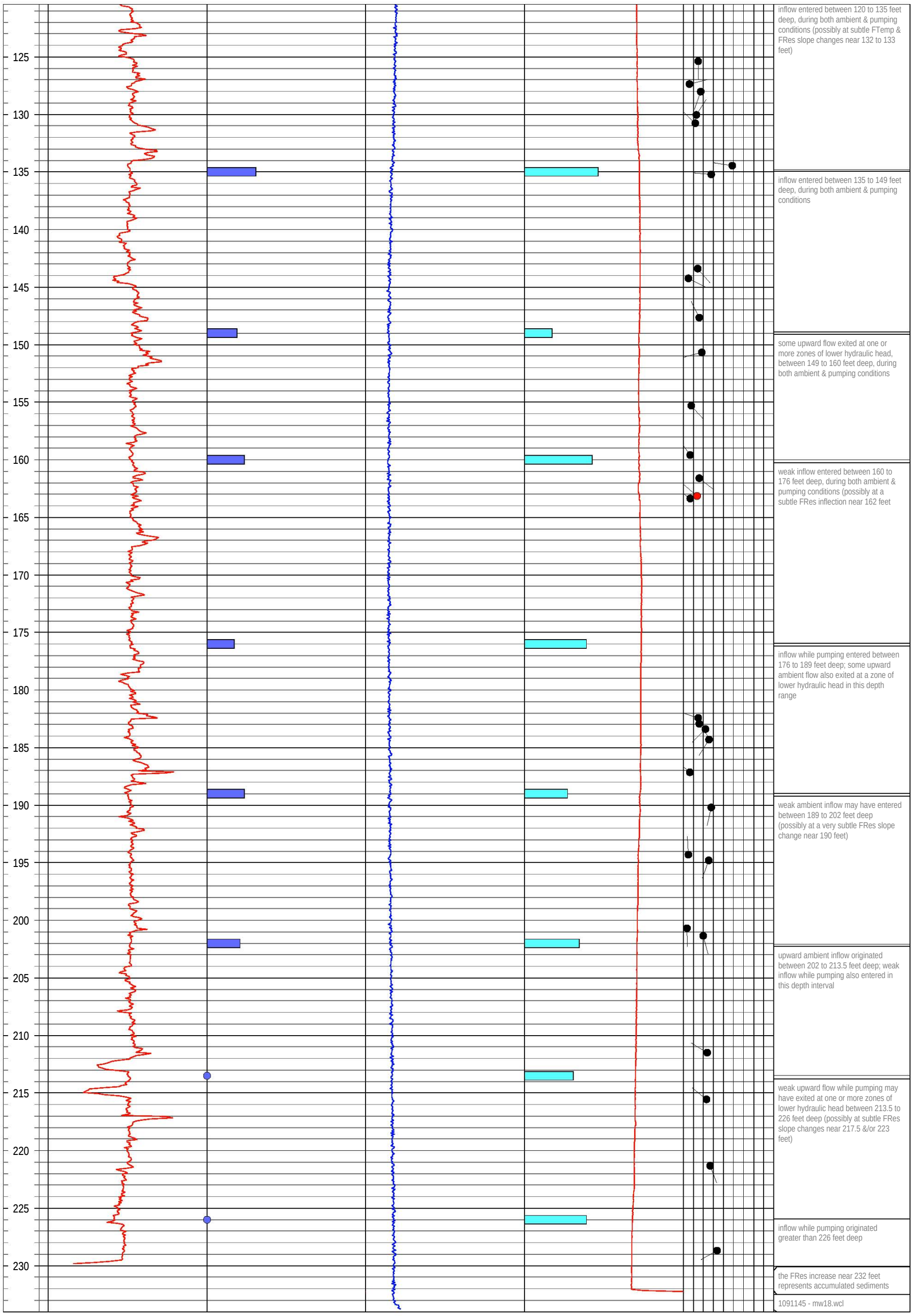
Malcolm Pirnie / South Plainfield, NJ - MW-18 conventional logs

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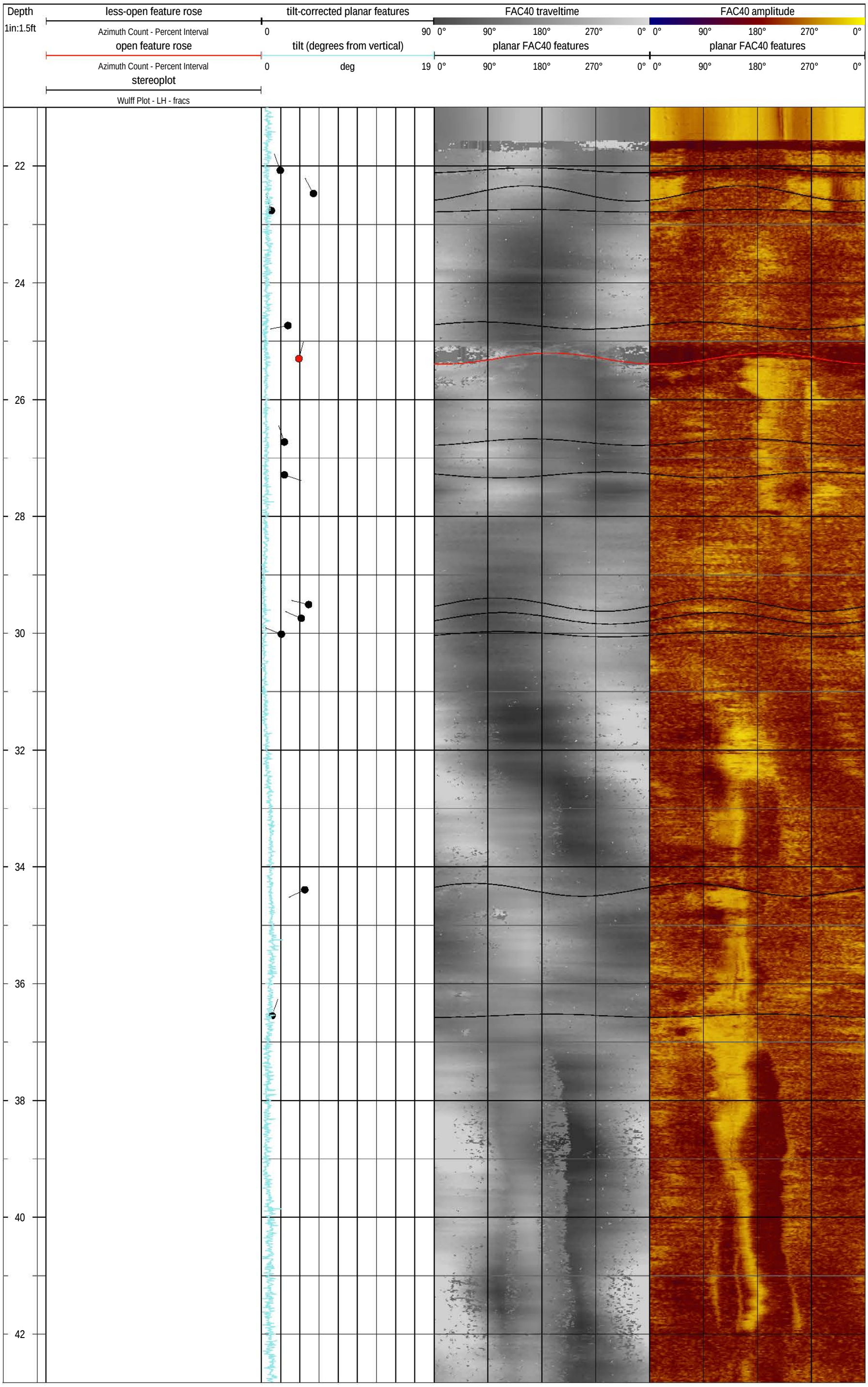
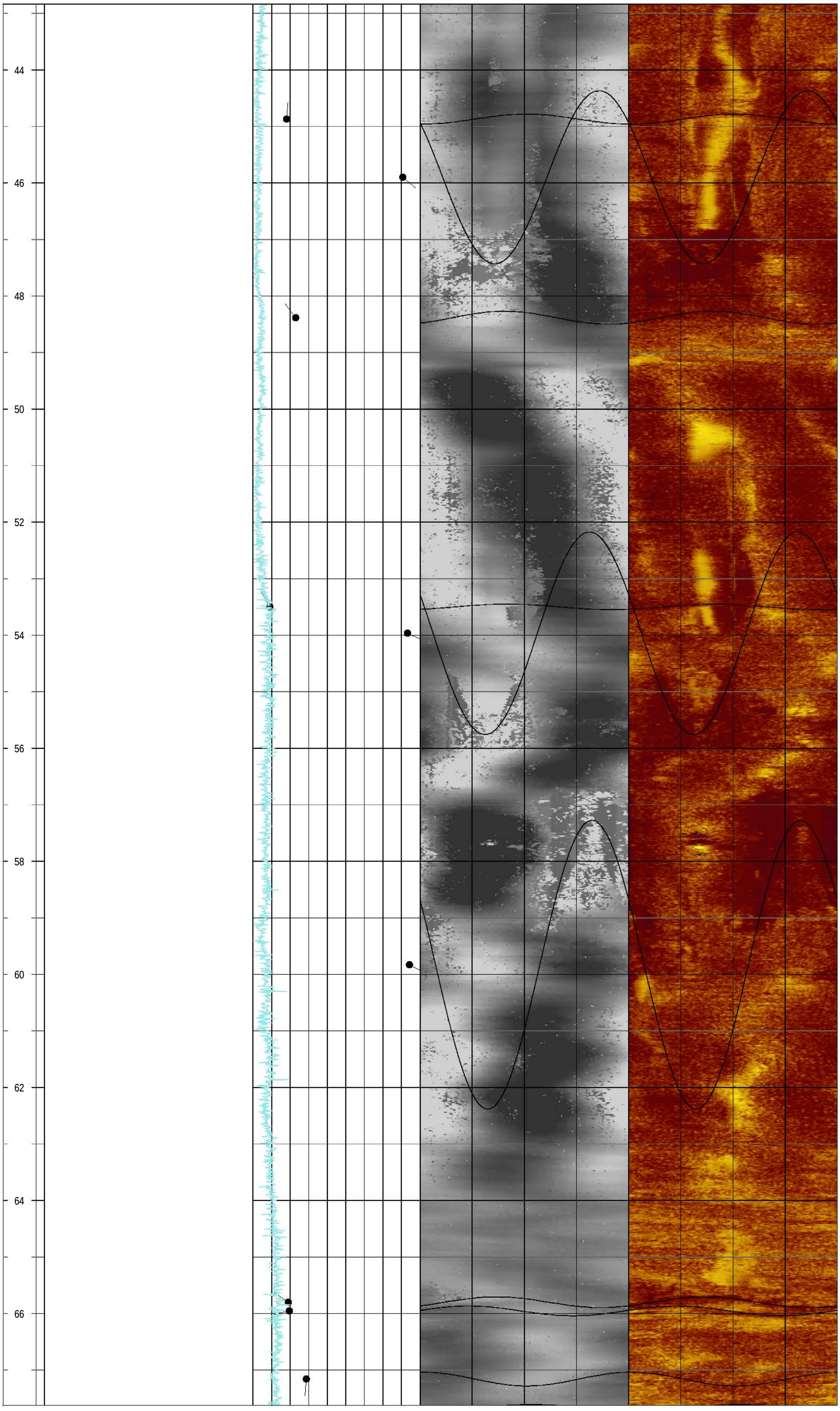
inflow entered between 120 to 135 feet deep, during both ambient & pumping conditions (possibly at subtle FTemp & FRes slope changes near 132 to 133 feet)
inflow entered between 135 to 149 feet deep, during both ambient & pumping conditions
some upward flow exited at one or more zones of lower hydraulic head, between 149 to 160 feet deep, during both ambient & pumping conditions
weak inflow entered between 160 to 176 feet deep, during both ambient & pumping conditions (possibly at a subtle FRes inflection near 162 feet
inflow while pumping entered between 176 to 189 feet deep; some upward ambient flow also exited at a zone of lower hydraulic head in this depth range
weak ambient inflow may have entered between 189 to 202 feet deep (possibly at a very subtle FRes slope change near 190 feet)
upward ambient inflow originated between 202 to 213.5 feet deep; weak inflow while pumping also entered in this depth interval
weak upward flow while pumping may have exited at one or more zones of lower hydraulic head between 213.5 to 226 feet deep (possibly at subtle FRes slope changes near 217.5 &/or 223 feet)
inflow while pumping originated greater than 226 feet deep
the FRes increase near 232 feet represents accumulated sediments
1091145 - mw18.wcl

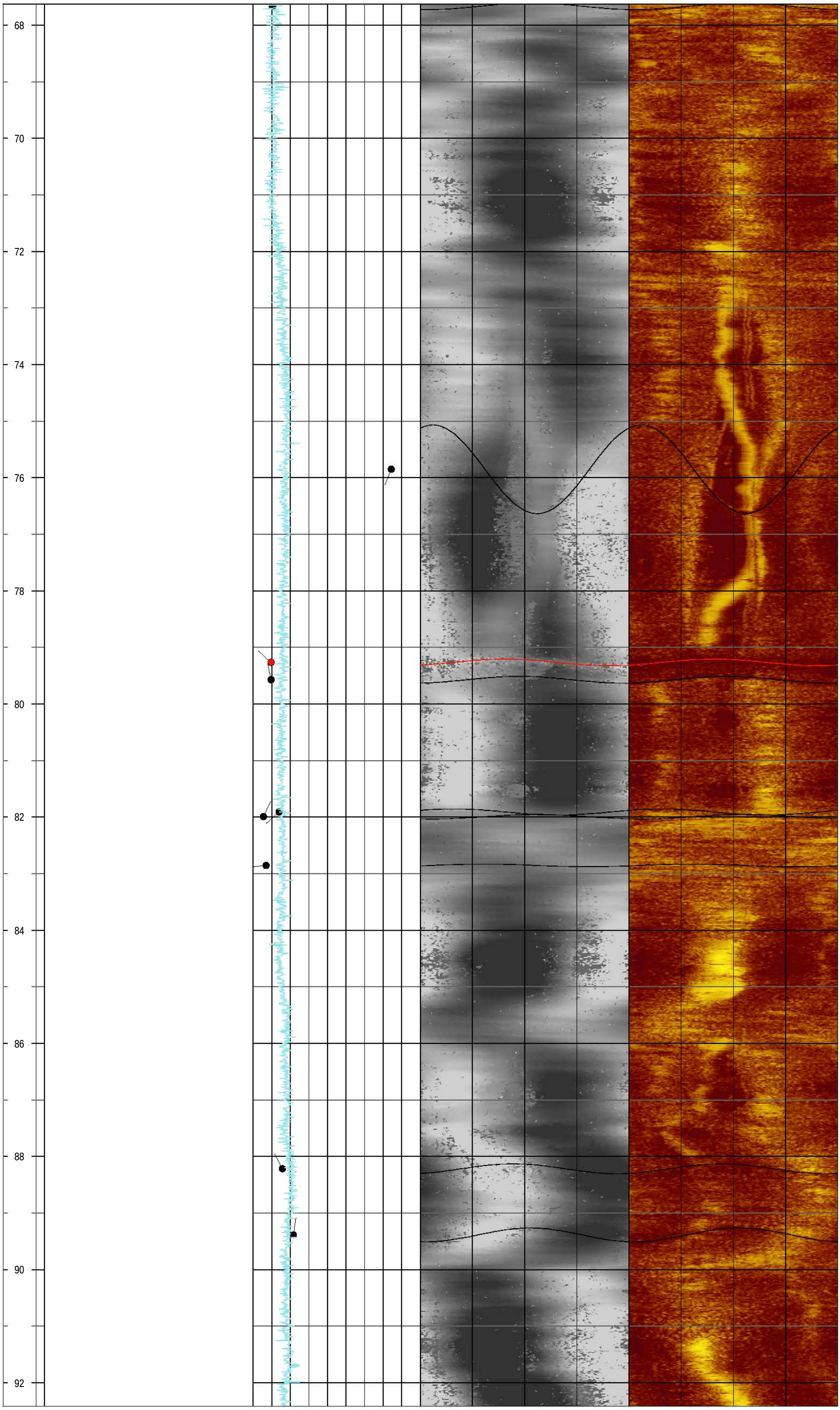
Malcolm Pirnie / South Plainfield, NJ - MW-18 acoustic televiewer log



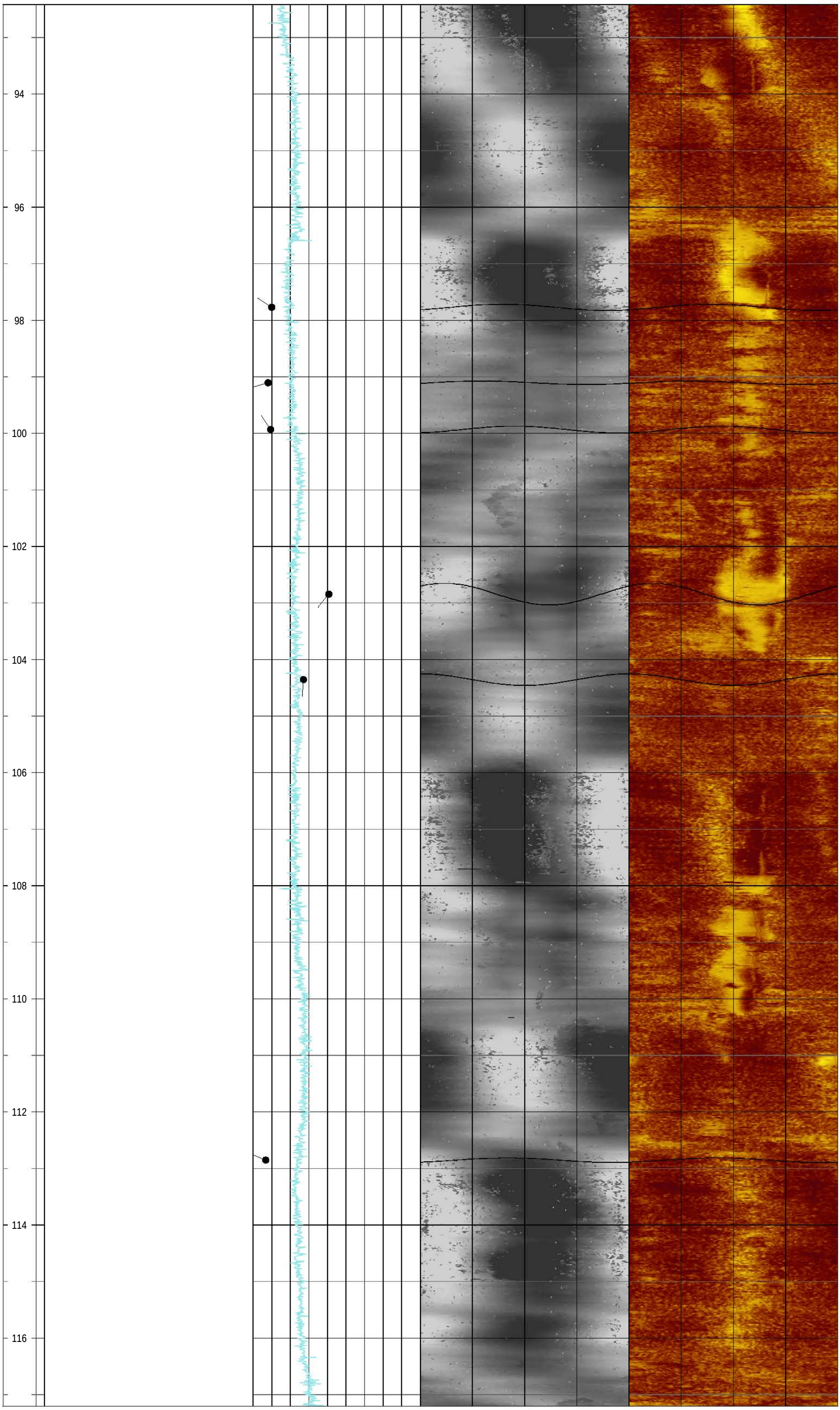
R2-0017173



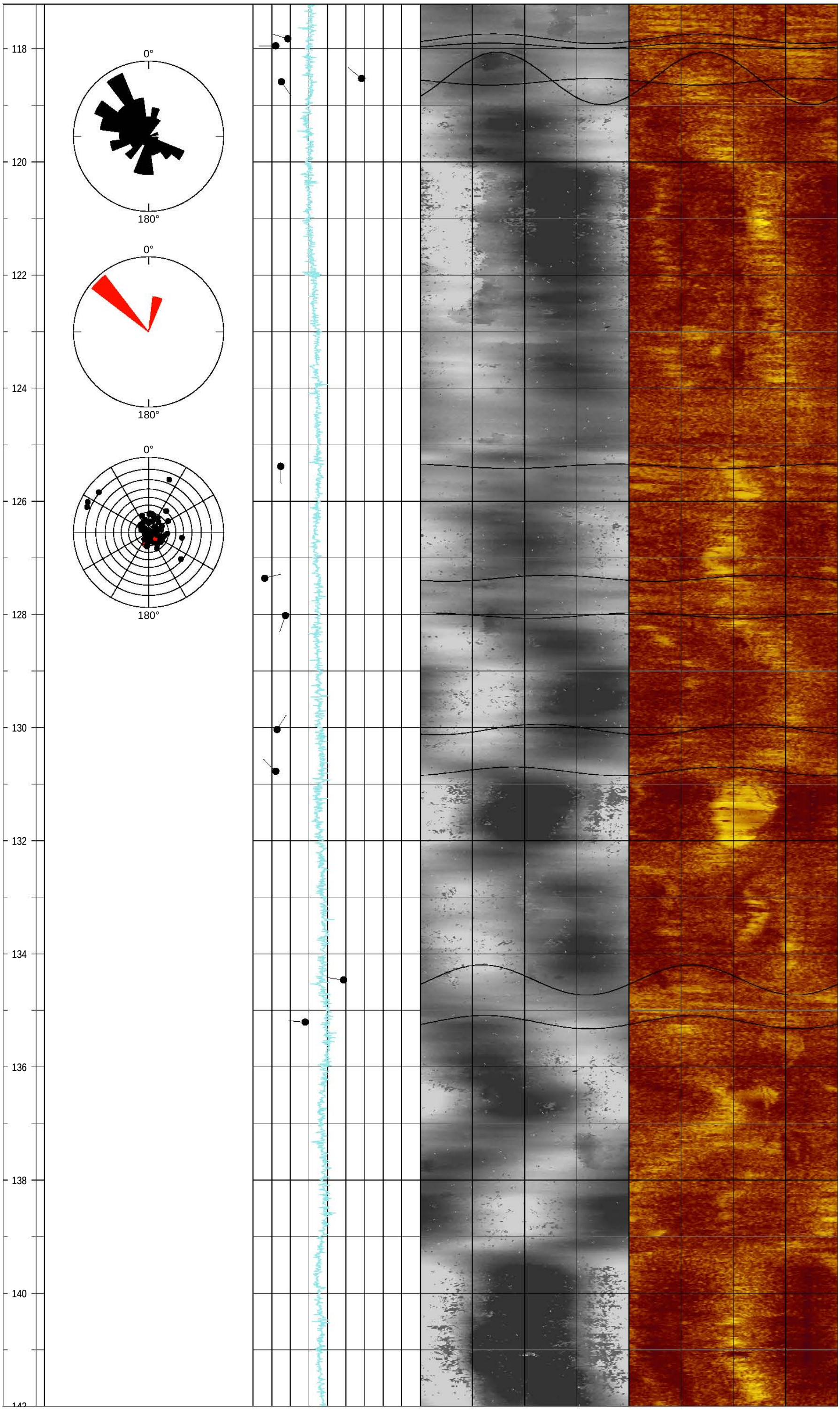
R2-0017174



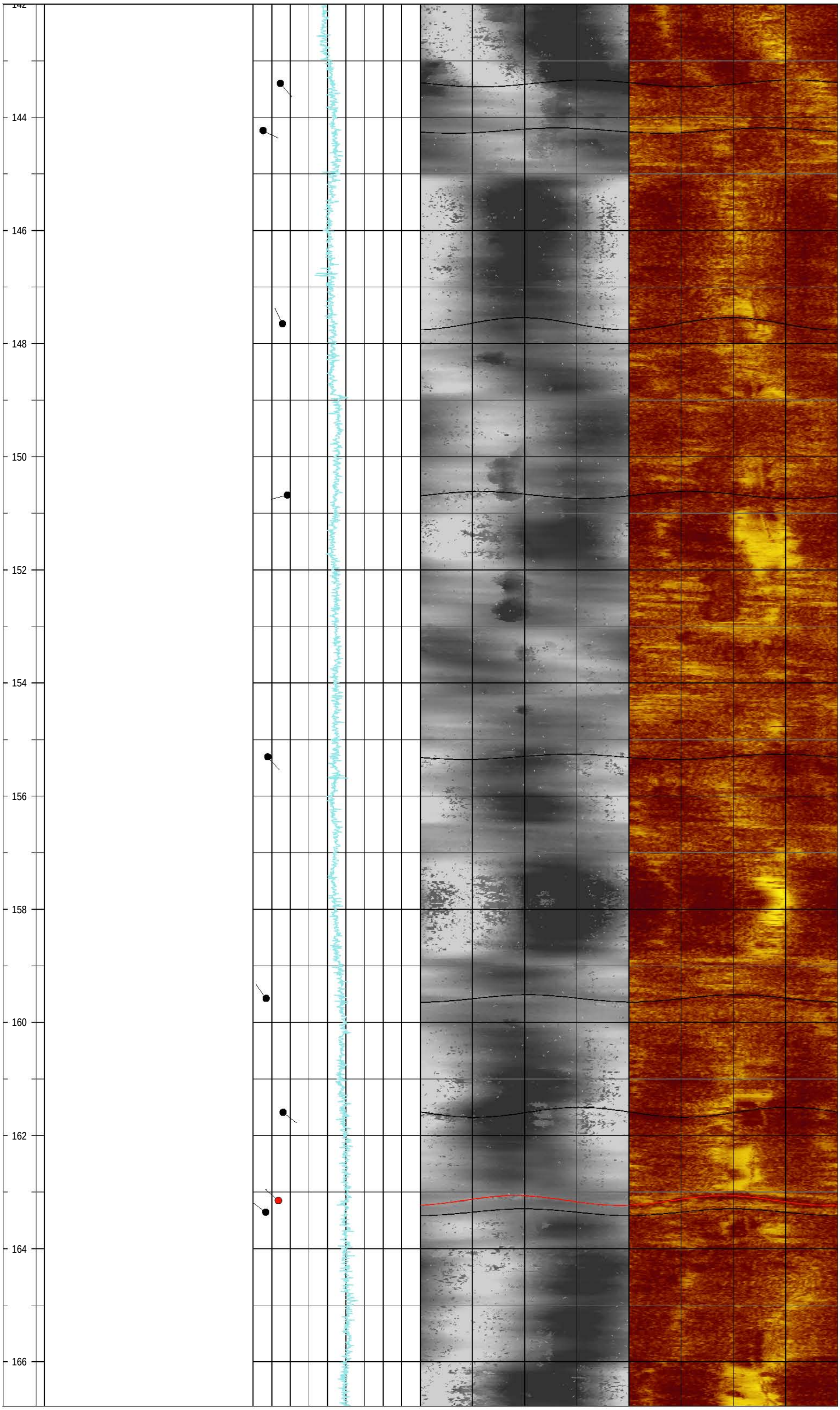
R2-0017175



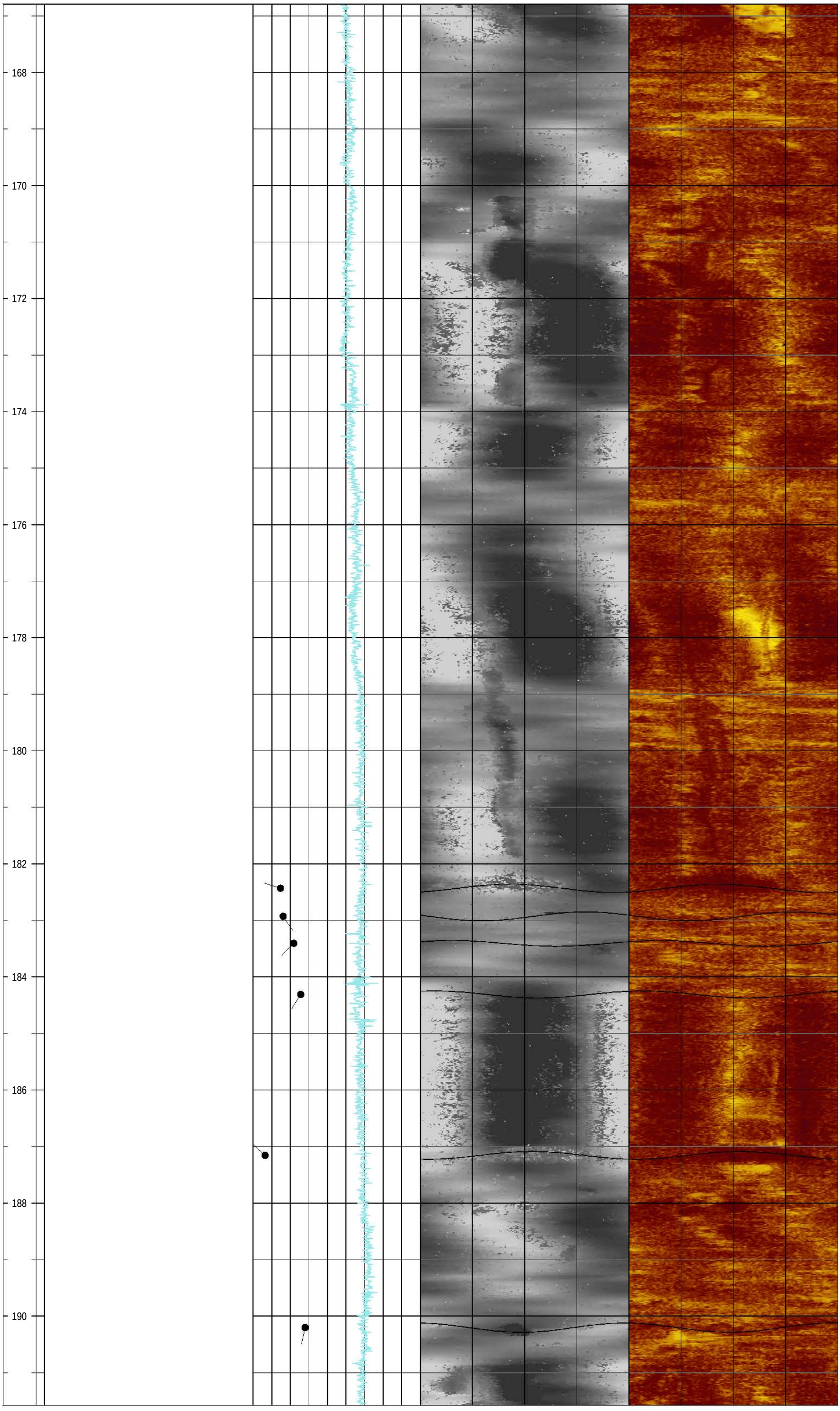
R2-0017176



R2-0017177



R2-0017178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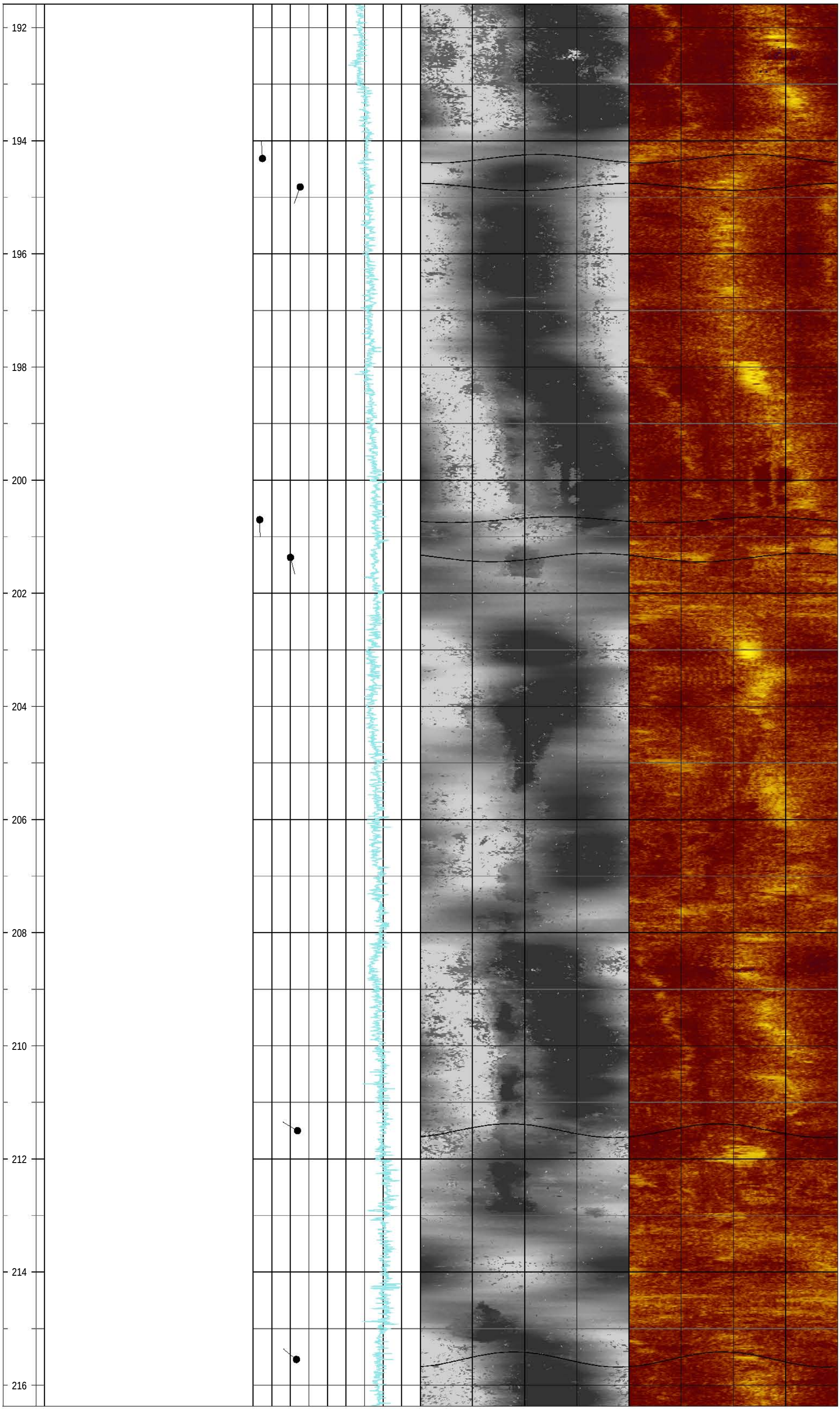
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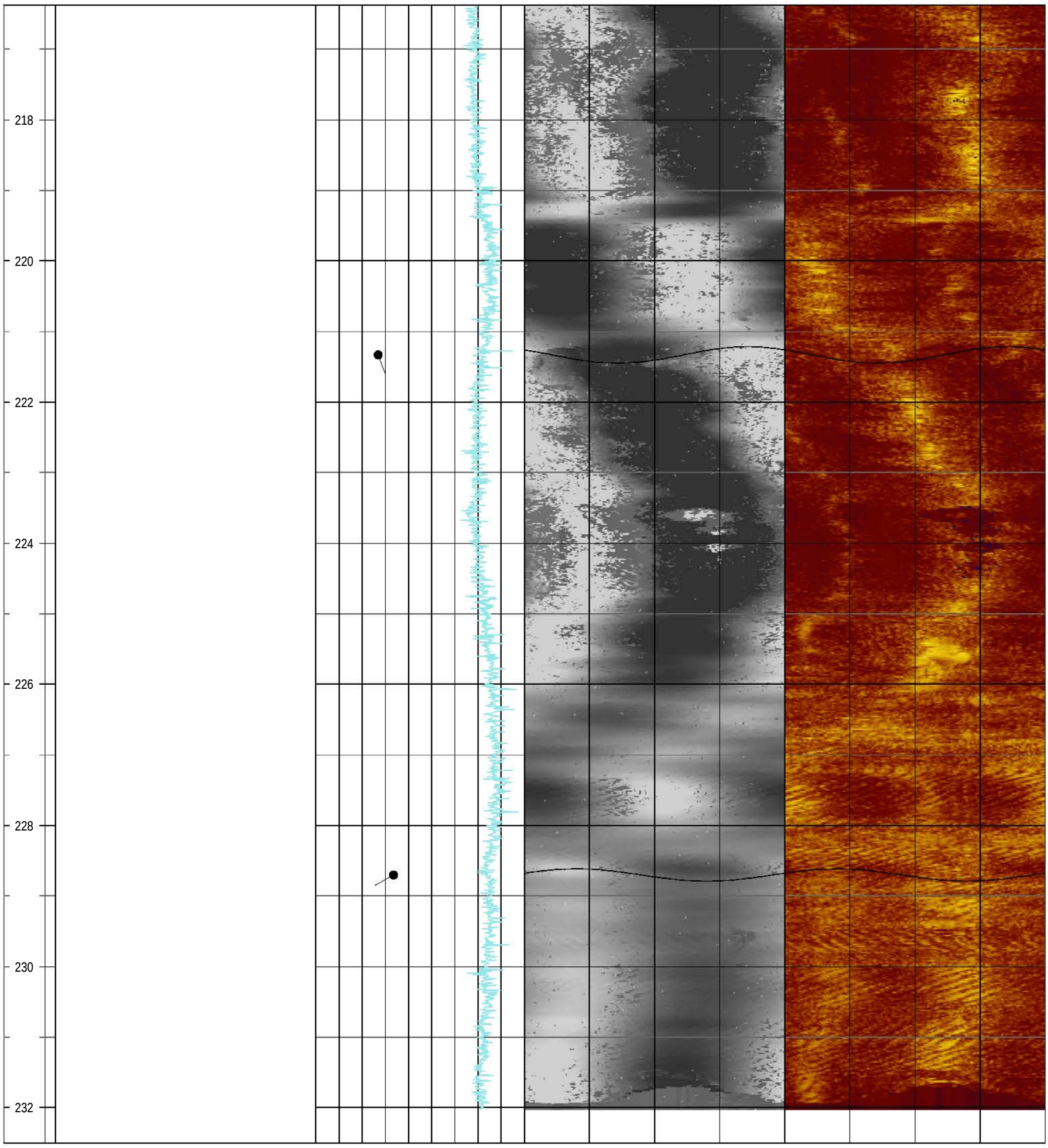
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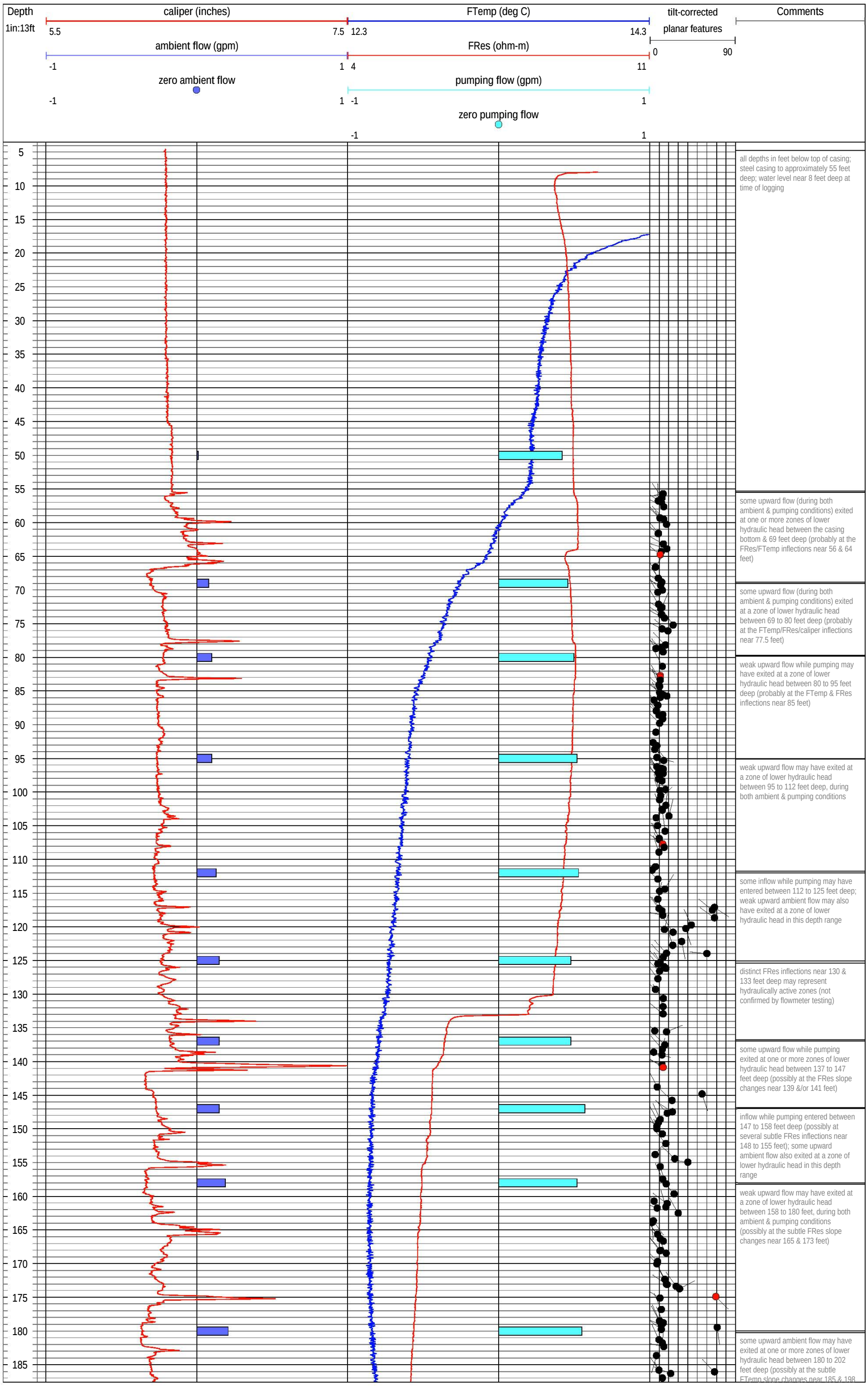
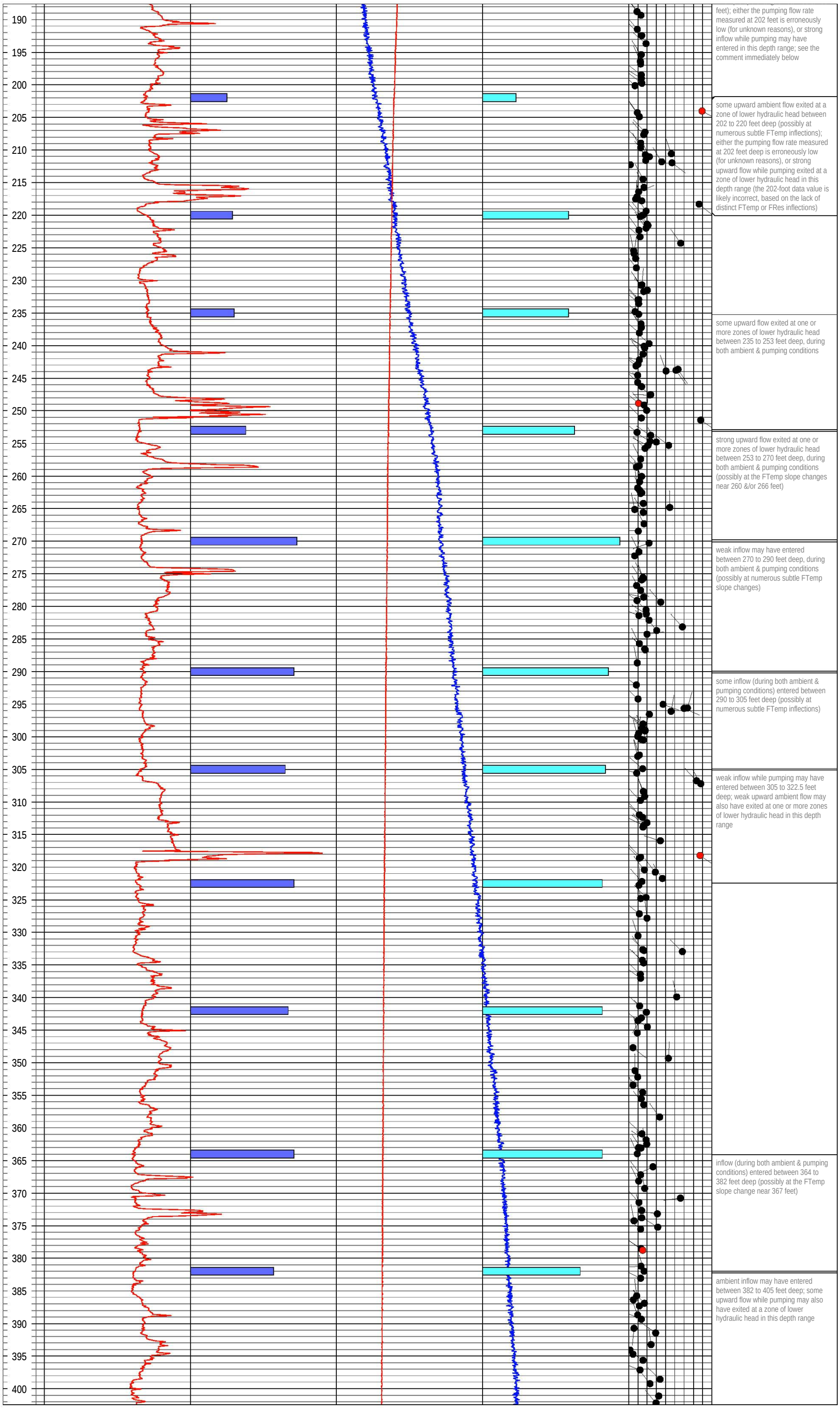
Malcolm Pirnie / South Plainfield, NJ - MW-19 conventional logs

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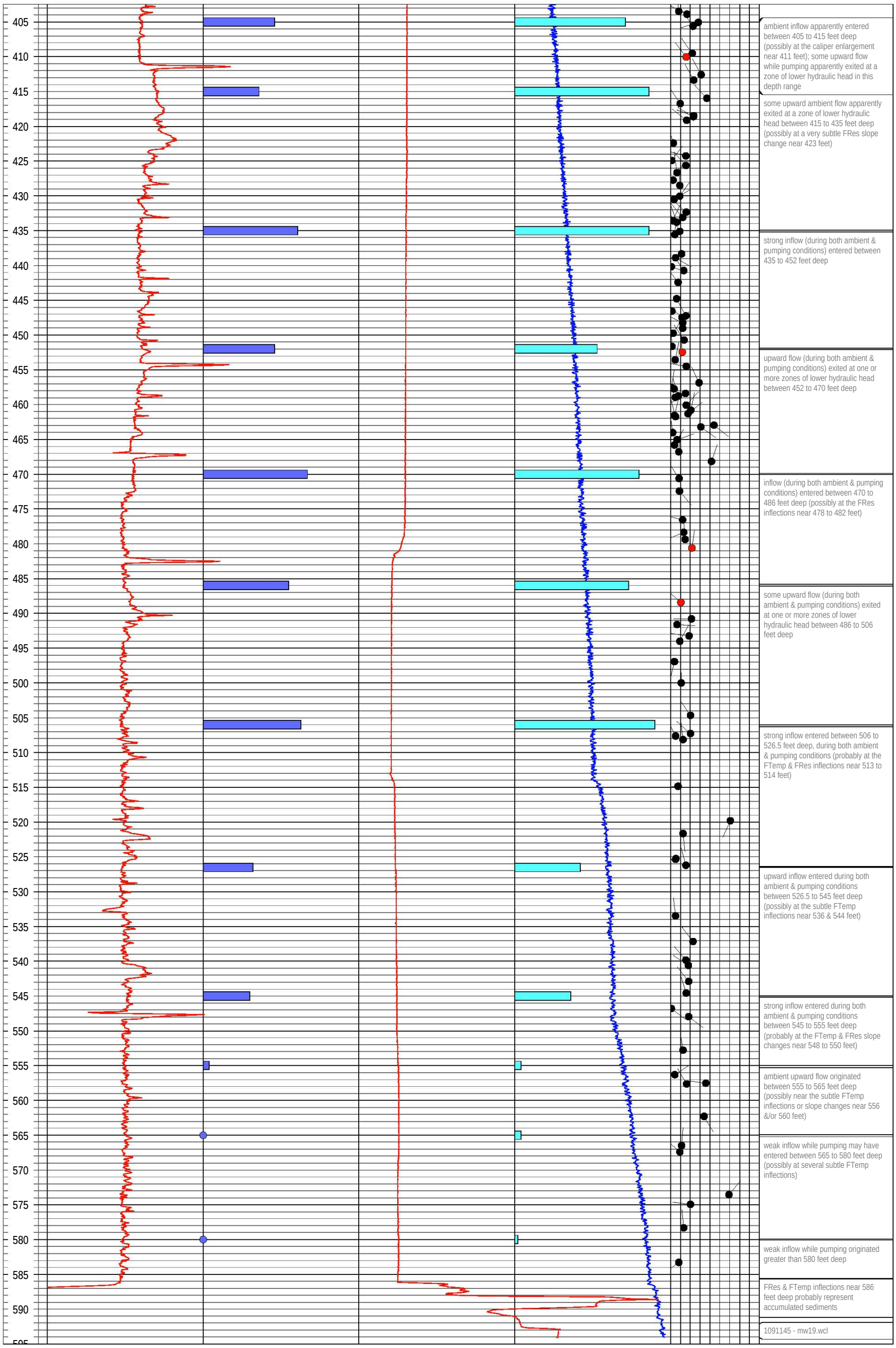
feet); either the pumping flow rate measured at 202 feet is erroneously low (for unknown reasons), or strong inflow while pumping may have entered in this depth range; see the comment immediately below
some upward ambient flow exited at a zone of lower hydraulic head between 202 to 220 feet deep (possibly at numerous subtle FTemp inflections); either the pumping flow rate measured at 202 feet deep is erroneously low (for unknown reasons), or strong upward flow while pumping exited at a zone of lower hydraulic head in this depth range (the 202-foot data value is likely incorrect, based on the lack of distinct FTemp or FRes inflections)
some upward flow exited at one or more zones of lower hydraulic head between 235 to 253 feet deep, during both ambient & pumping conditions
strong upward flow exited at one or more zones of lower hydraulic head between 253 to 270 feet deep, during both ambient & pumping conditions (possibly at the FTemp slope changes near 260 &/or 266 feet)
weak inflow may have entered between 270 to 290 feet deep, during both ambient & pumping conditions (possibly at numerous subtle FTemp slope changes)
some inflow (during both ambient & pumping conditions) entered between 290 to 305 feet deep (possibly at numerous subtle FTemp inflections)
weak inflow while pumping may have entered between 305 to 322.5 feet deep; weak upward ambient flow may also have exited at one or more zones of lower hydraulic head in this depth range
inflow (during both ambient & pumping conditions) entered between 364 to 382 feet deep (possibly at the FTemp slope change near 367 feet)
ambient inflow may have entered between 382 to 405 feet deep; some upward flow while pumping may also have exited at a zone of lower hydraulic head in this depth range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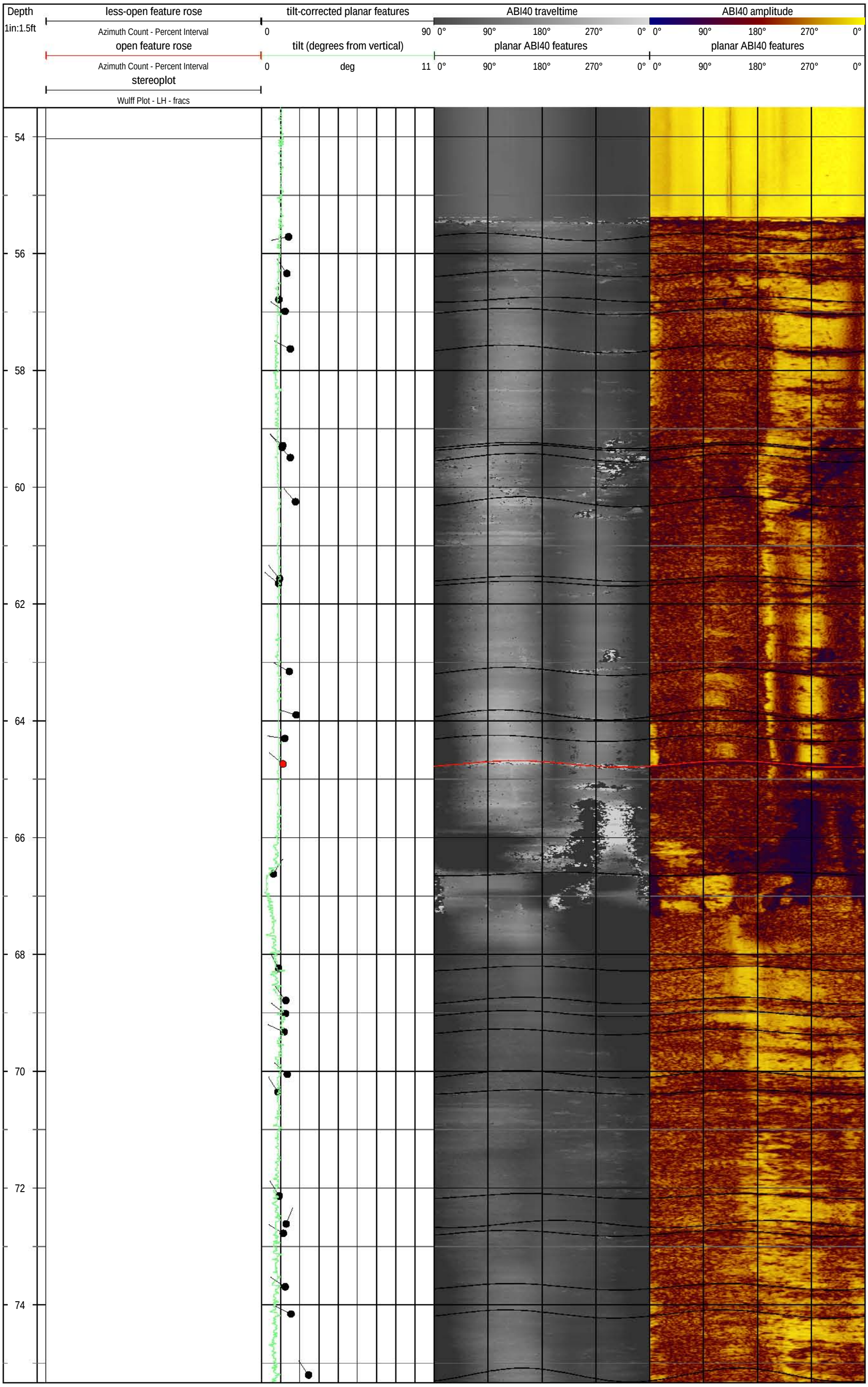
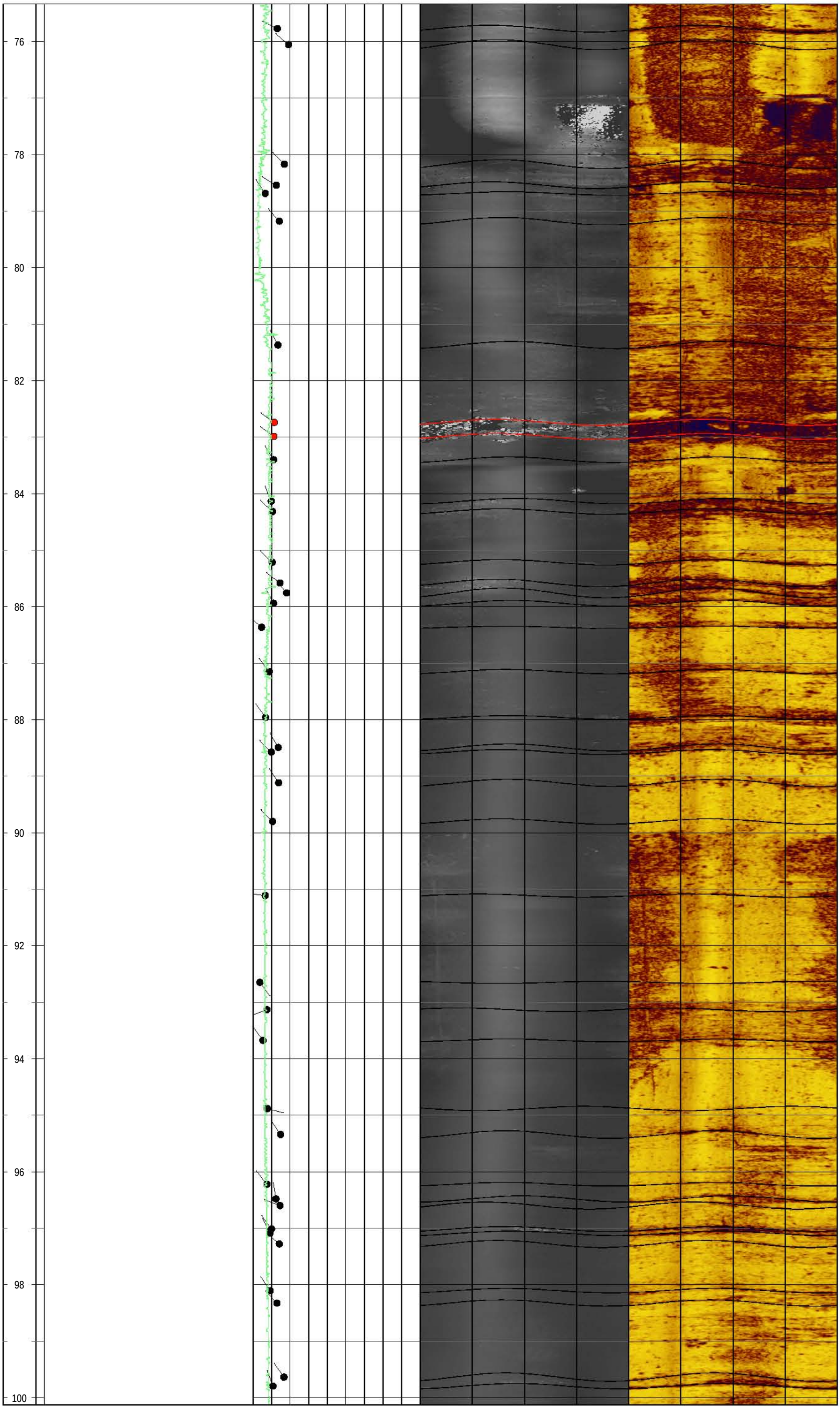
ambient inflow apparently entered between 405 to 415 feet deep (possibly at the caliper enlargement near 411 feet); some upward flow while pumping apparently exited at a zone of lower hydraulic head in this depth range
some upward ambient flow apparently exited at a zone of lower hydraulic head between 415 to 435 feet deep (possibly at a very subtle FRes slope change near 423 feet)
strong inflow (during both ambient & pumping conditions) entered between 435 to 452 feet deep
upward flow (during both ambient & pumping conditions) exited at one or more zones of lower hydraulic head between 452 to 470 feet deep
inflow (during both ambient & pumping conditions) entered between 470 to 486 feet deep (possibly at the FRes inflections near 478 to 482 feet)
some upward flow (during both ambient & pumping conditions) exited at one or more zones of lower hydraulic head between 486 to 506 feet deep
strong inflow entered between 506 to 526.5 feet deep, during both ambient & pumping conditions (probably at the FTemp & FRes inflections near 513 to 514 feet)
upward inflow entered during both ambient & pumping conditions between 526.5 to 545 feet deep (possibly at the subtle FTemp inflections near 536 & 544 feet)
strong inflow entered during both ambient & pumping conditions between 545 to 555 feet deep (probably at the FTemp & FRes slope changes near 548 to 550 feet)
ambient upward flow originated between 555 to 565 feet deep (possibly near the subtle FTemp inflections or slope changes near 556 &/or 560 feet)
weak inflow while pumping may have entered between 565 to 580 feet deep (possibly at several subtle FTemp inflections)
weak inflow while pumping originated greater than 580 feet deep
FRes & FTemp inflections near 586 feet deep probably represent accumulated sediments
1091145 - mw19.wcl

Malcolm Pirnie / South Plainfield, NJ - MW-19 acoustic televiewer log



R2-0017185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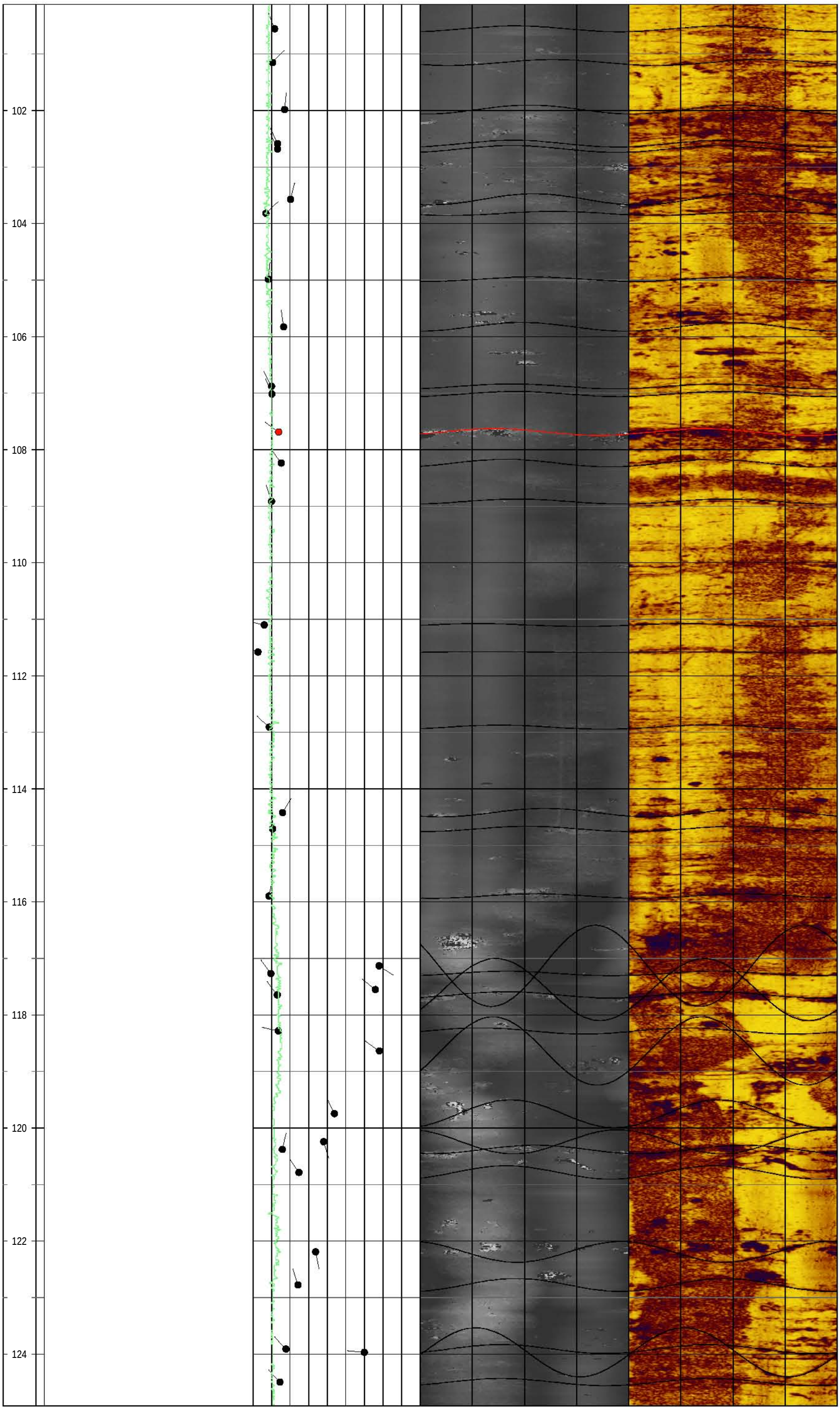
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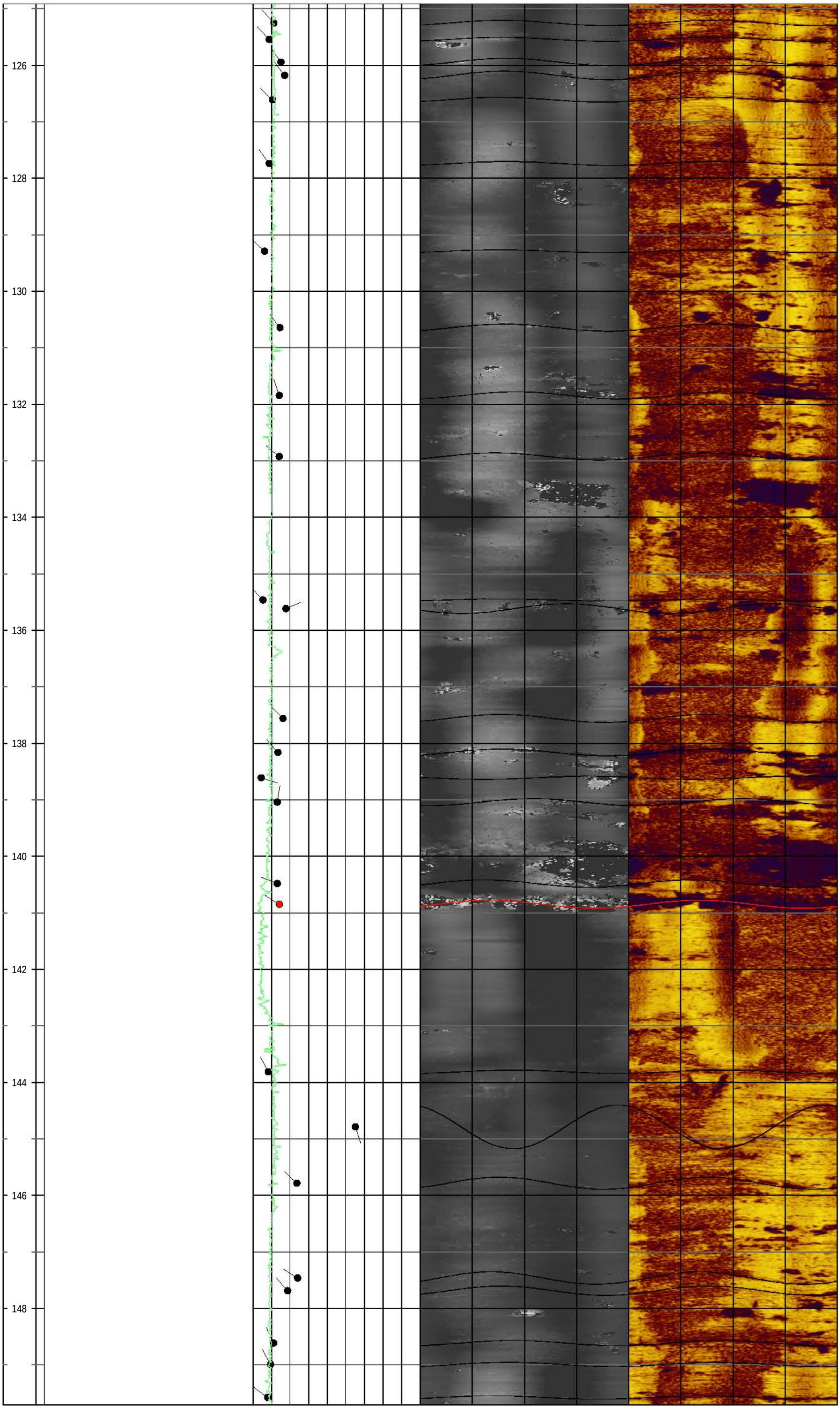
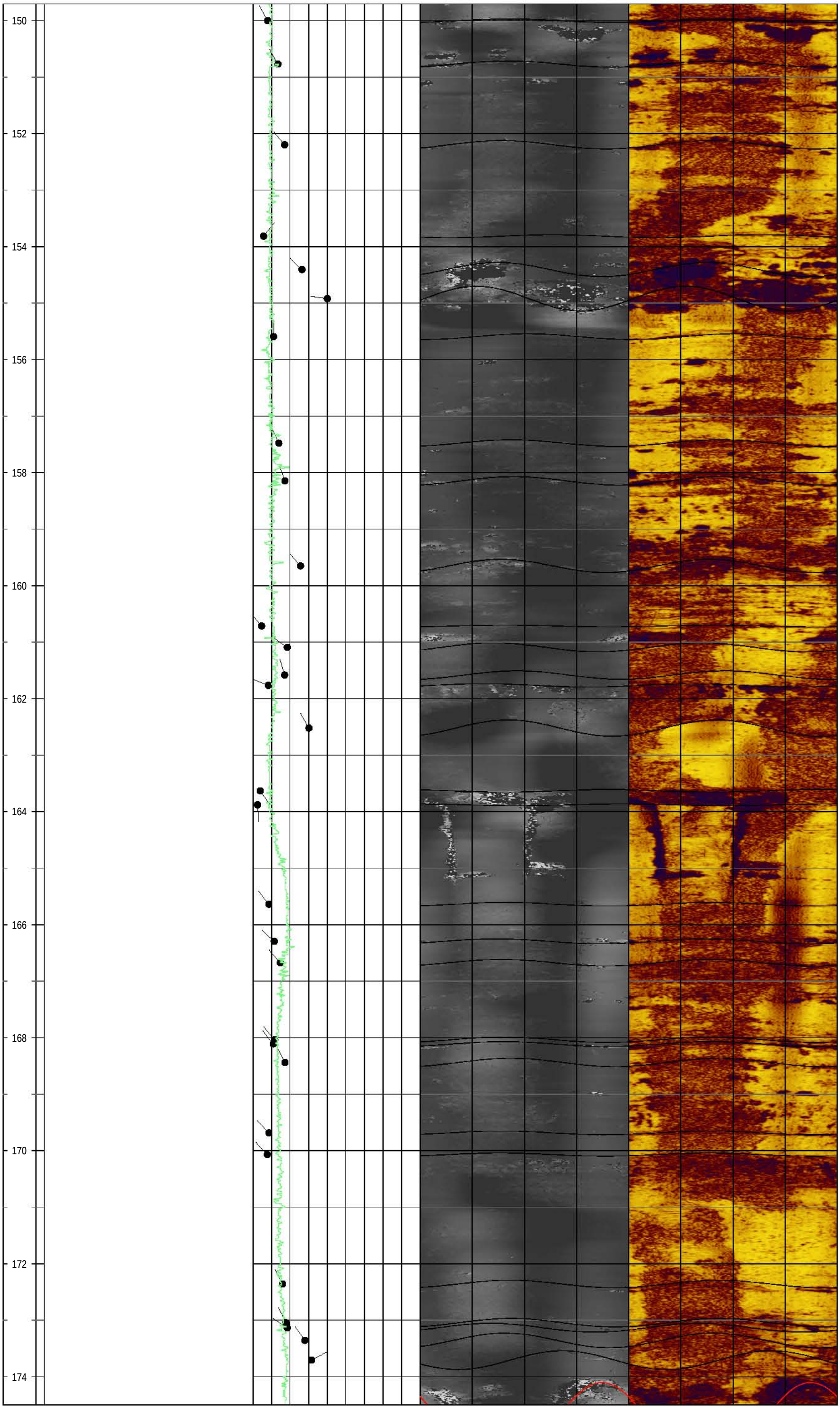


R2-0017188



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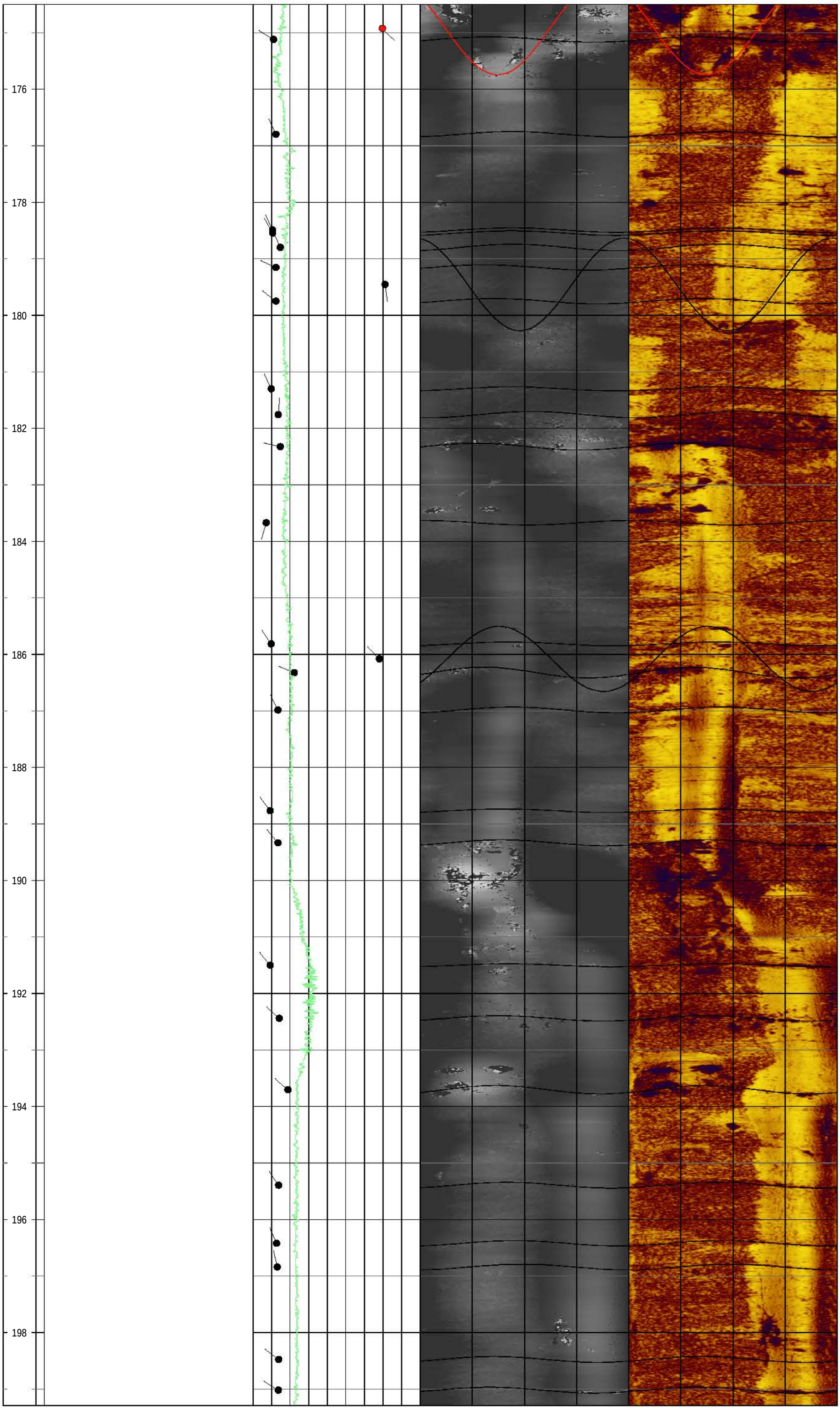
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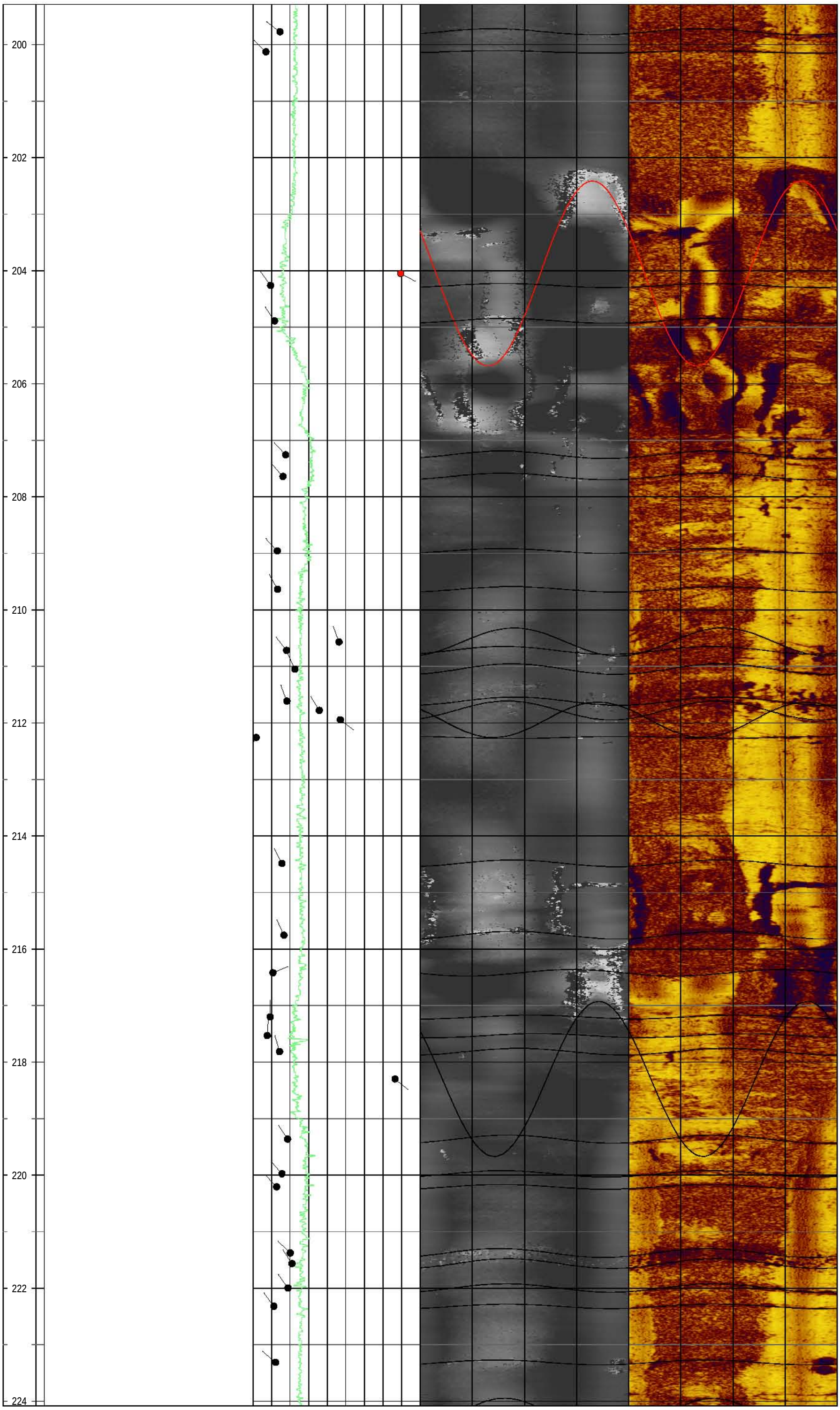

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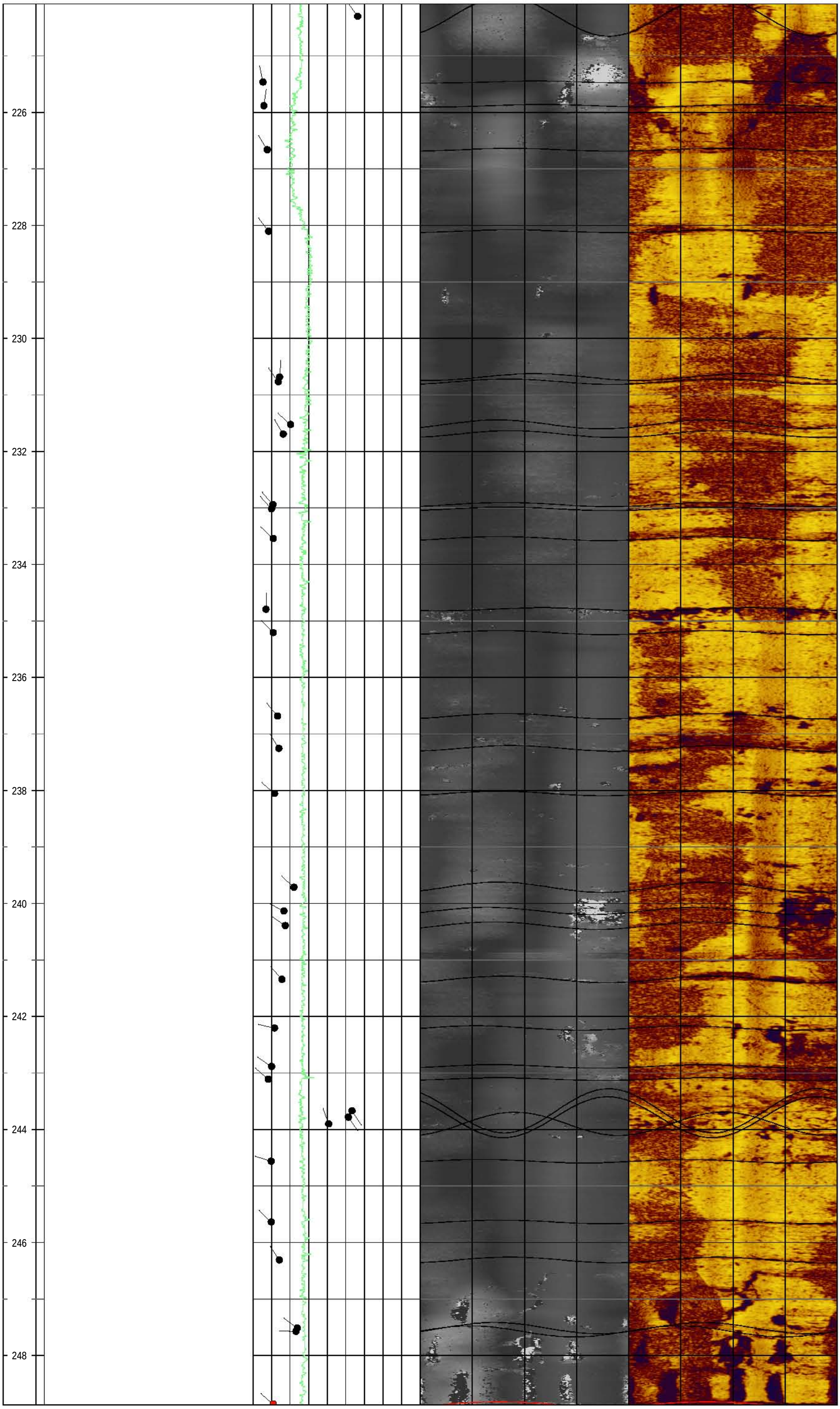

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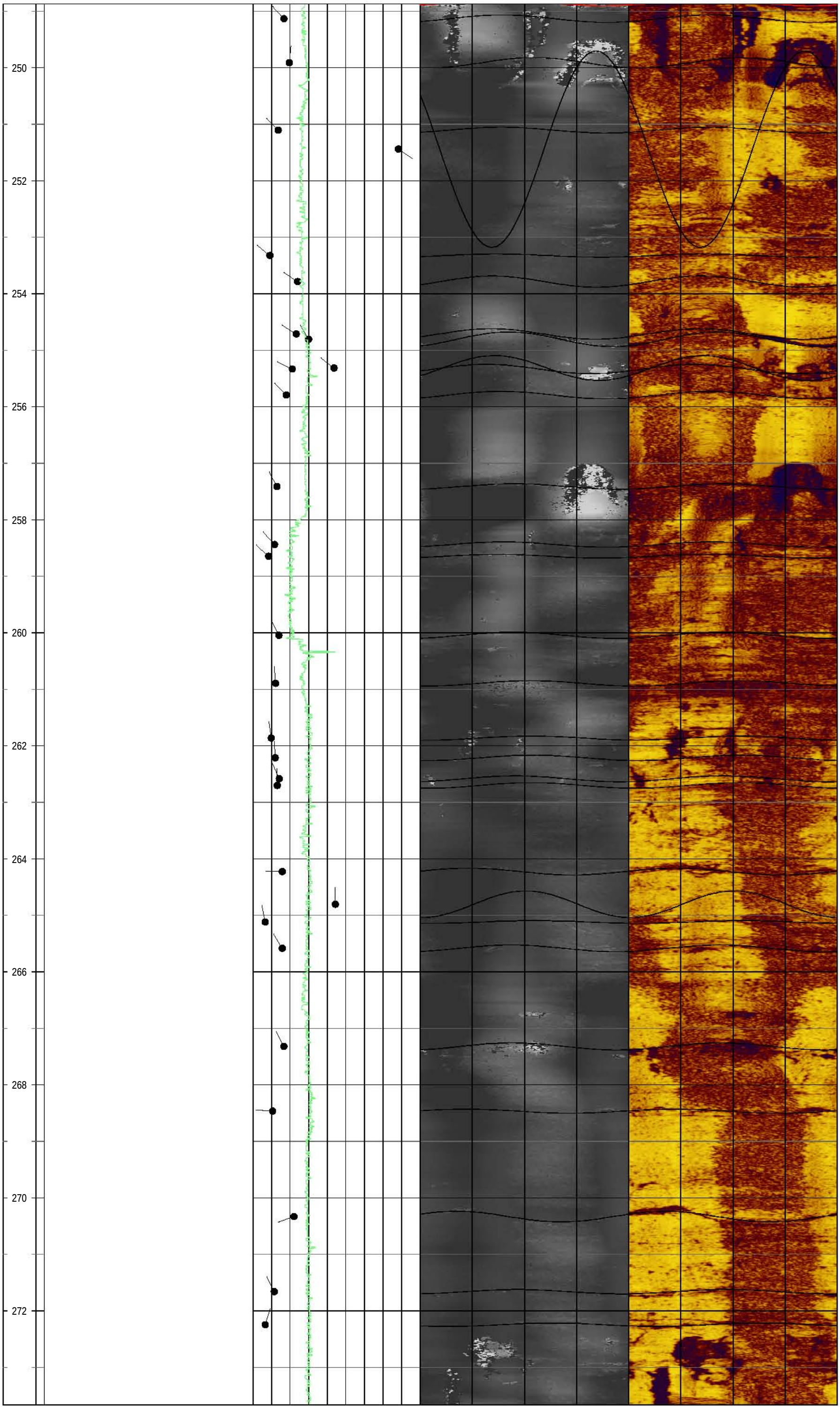
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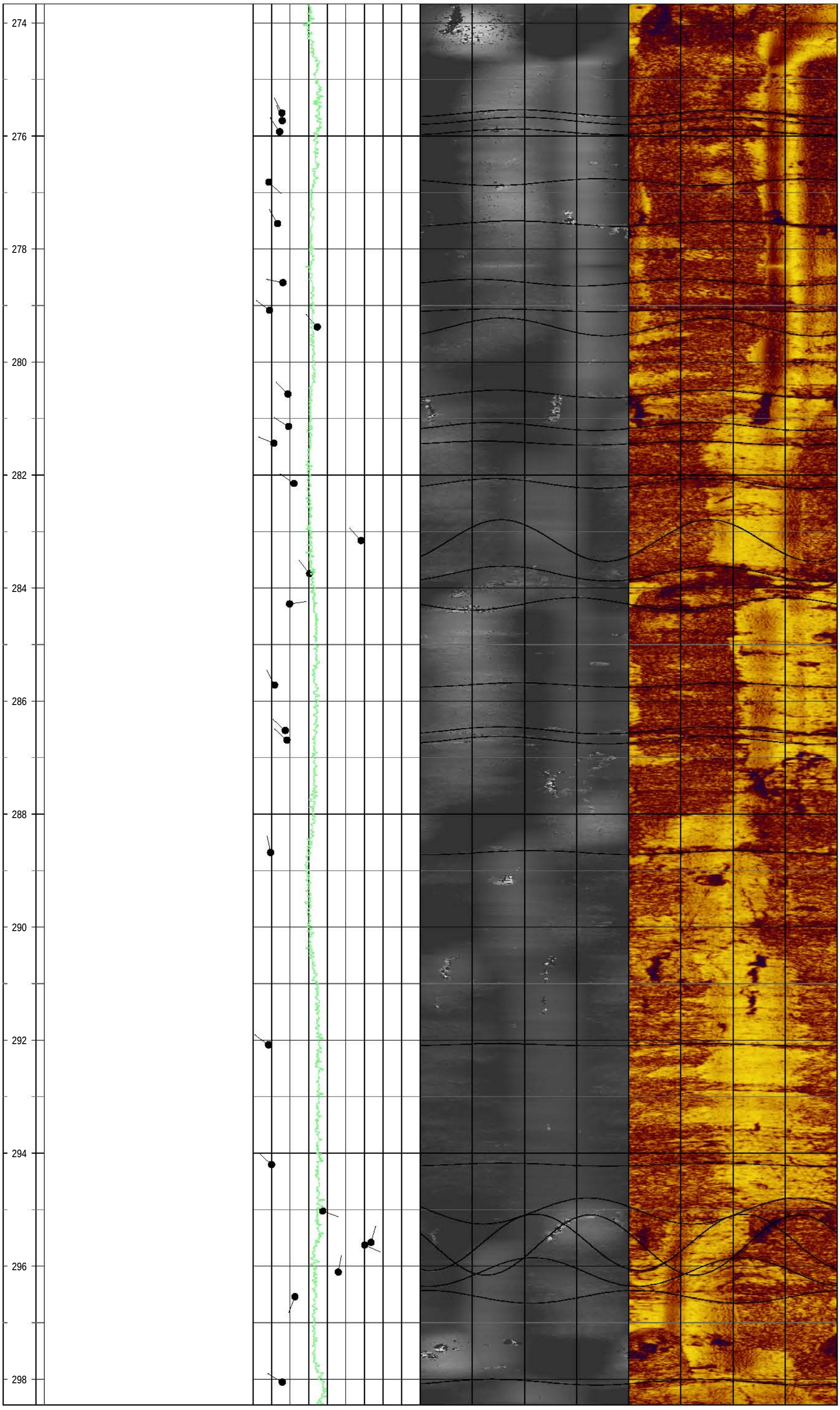

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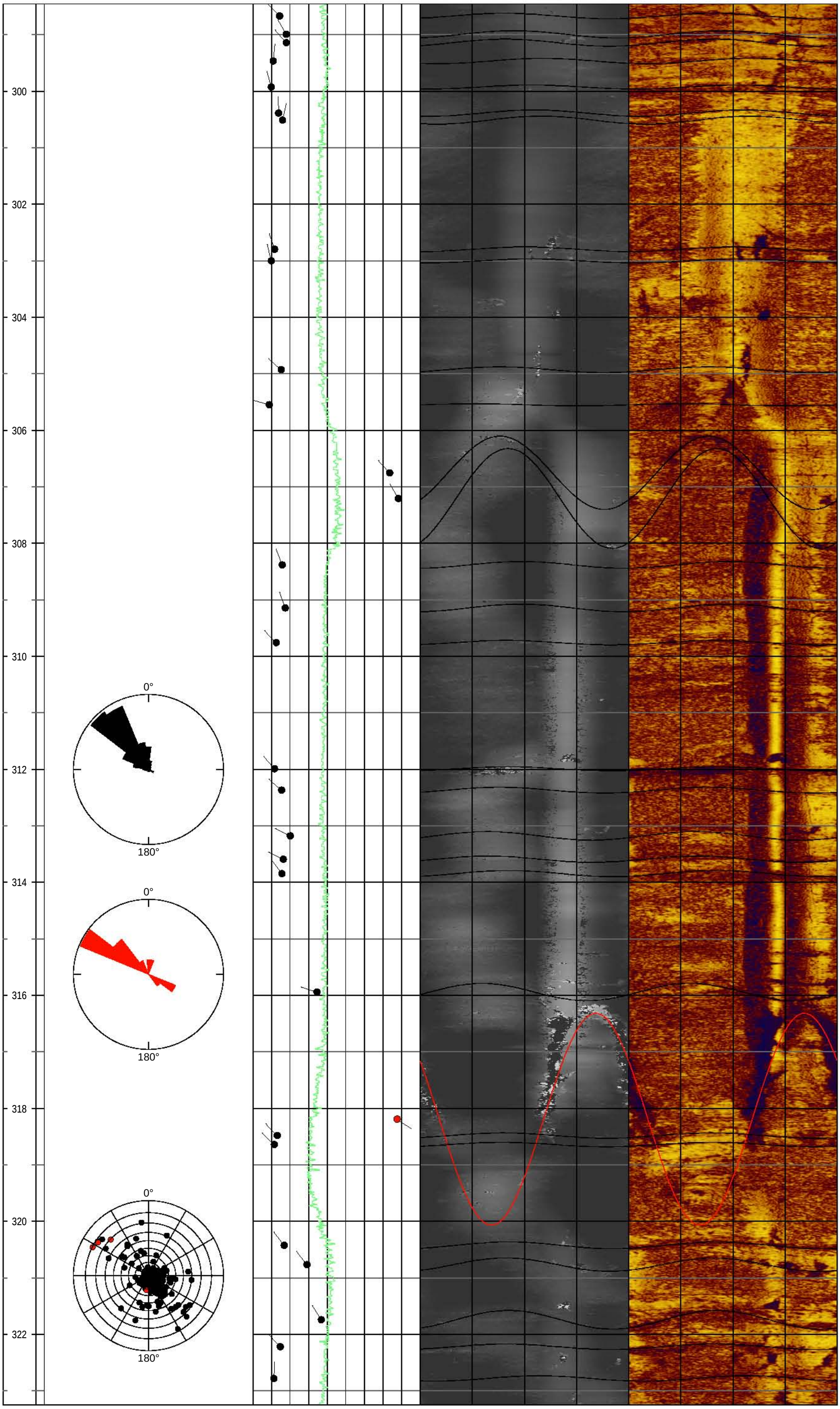

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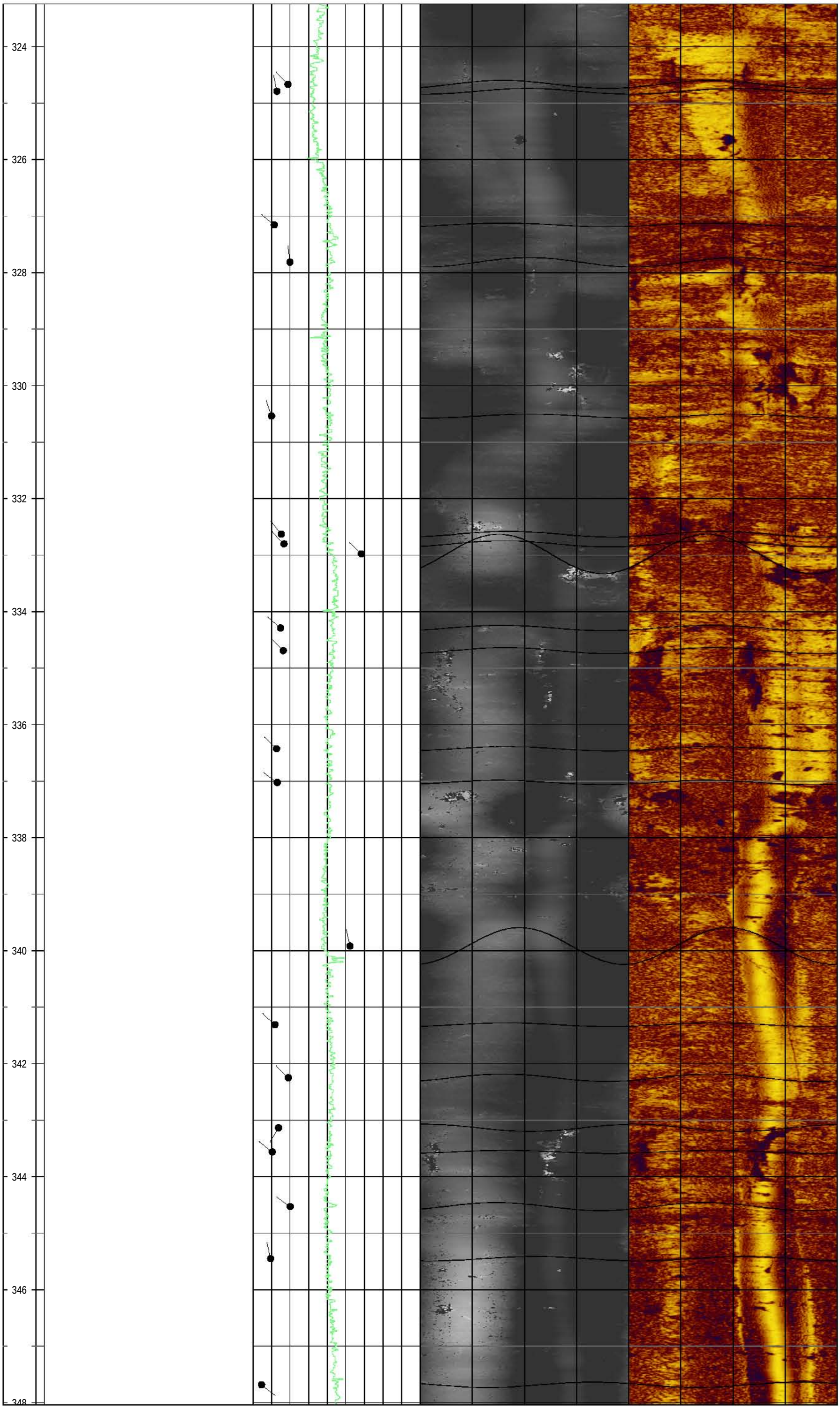

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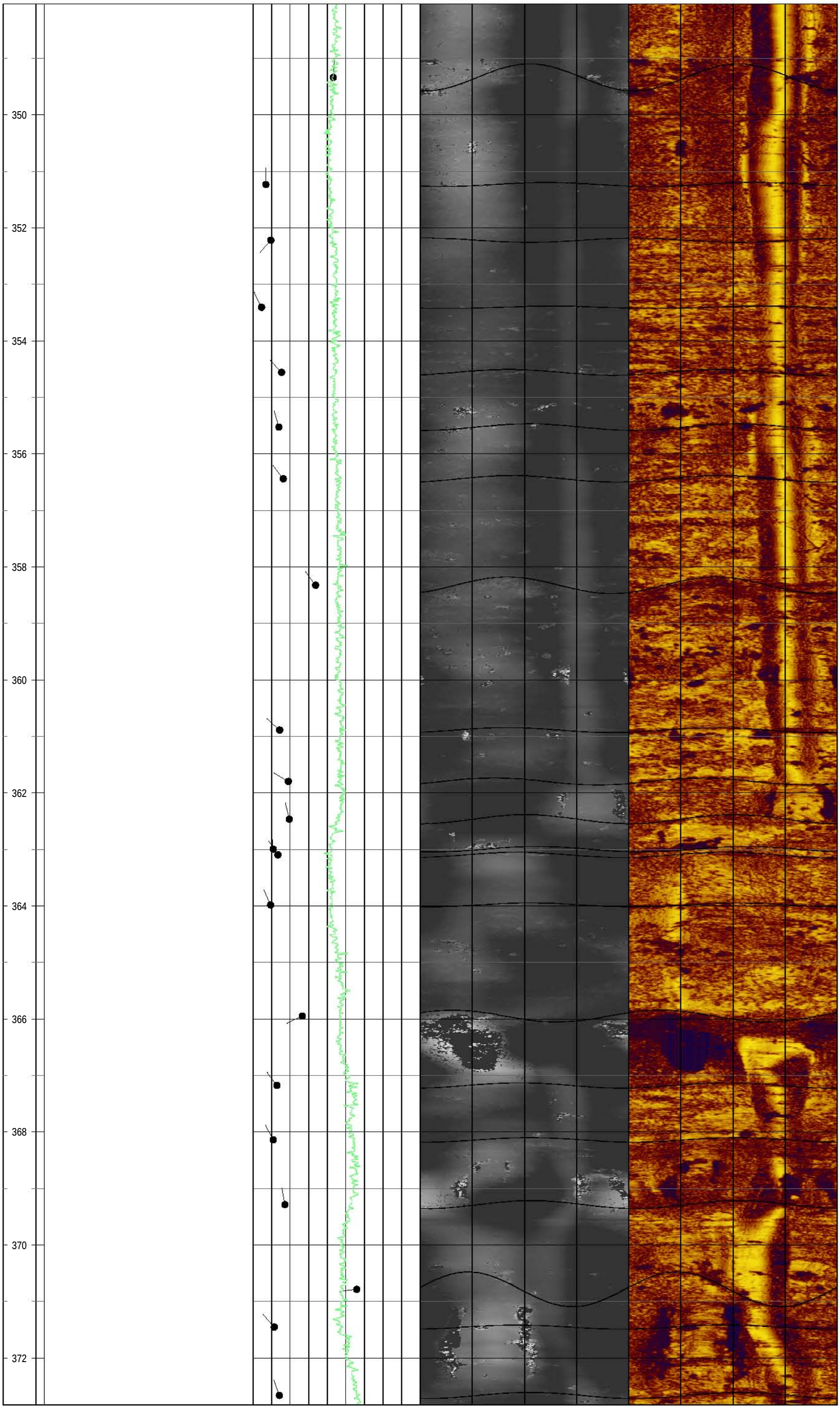

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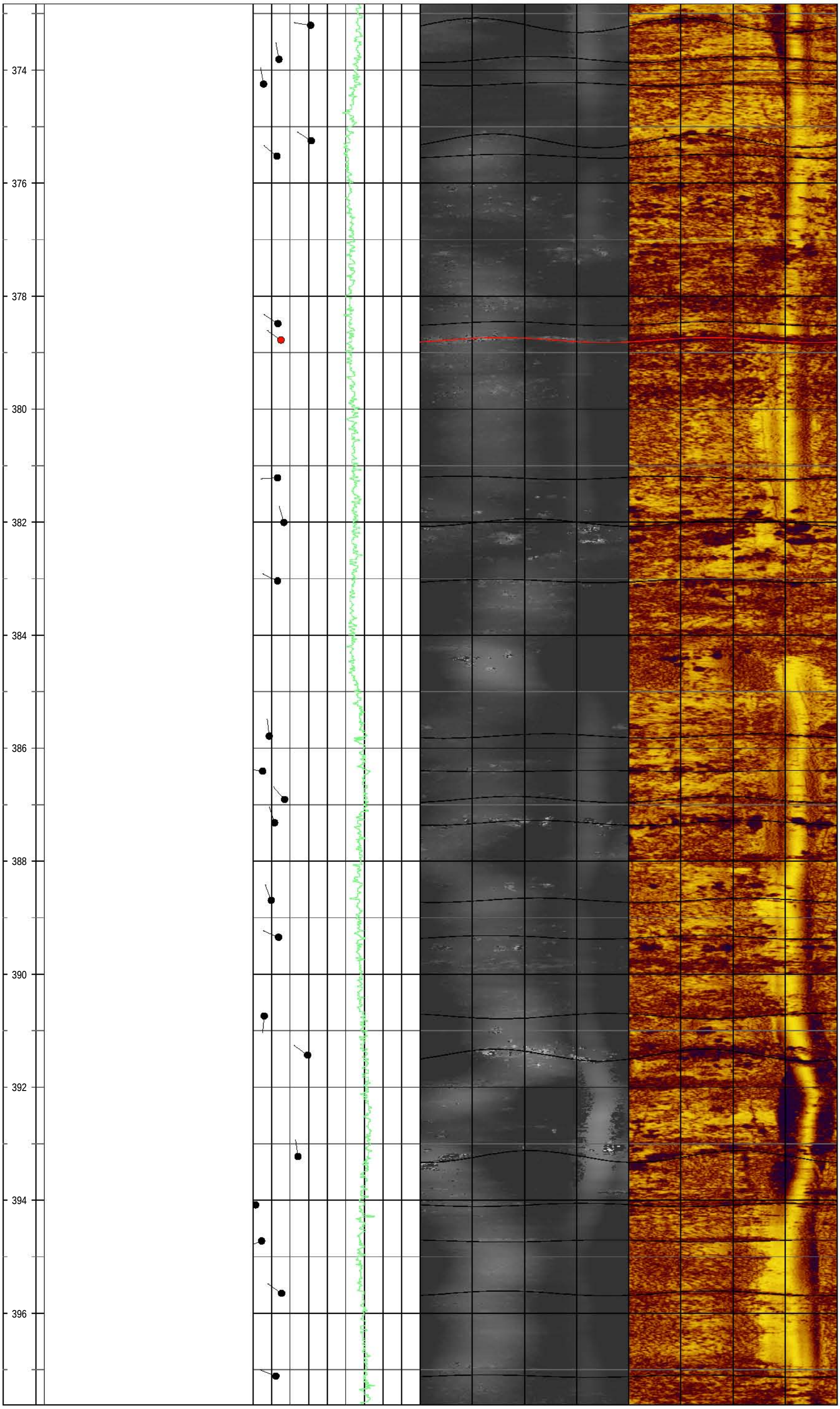

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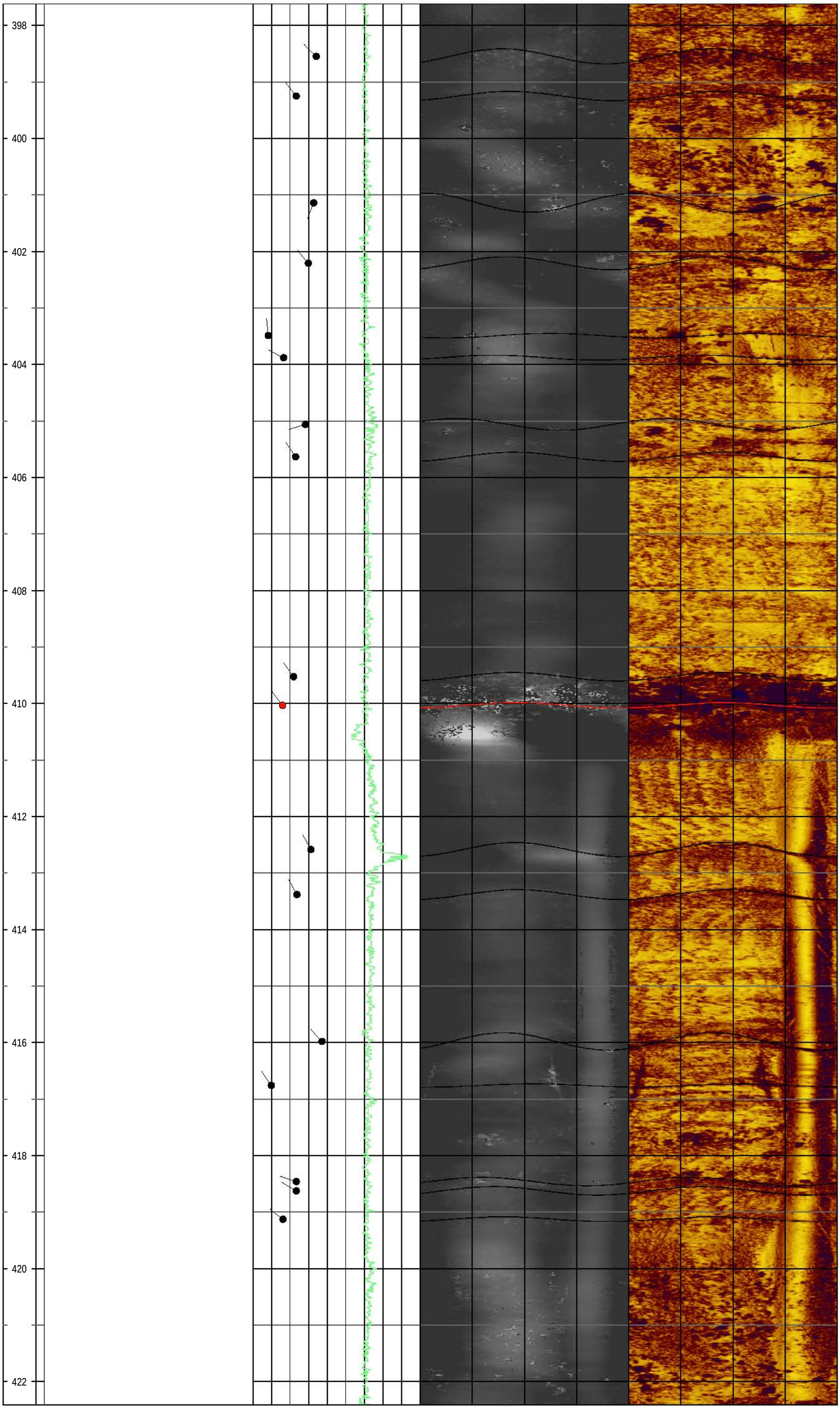

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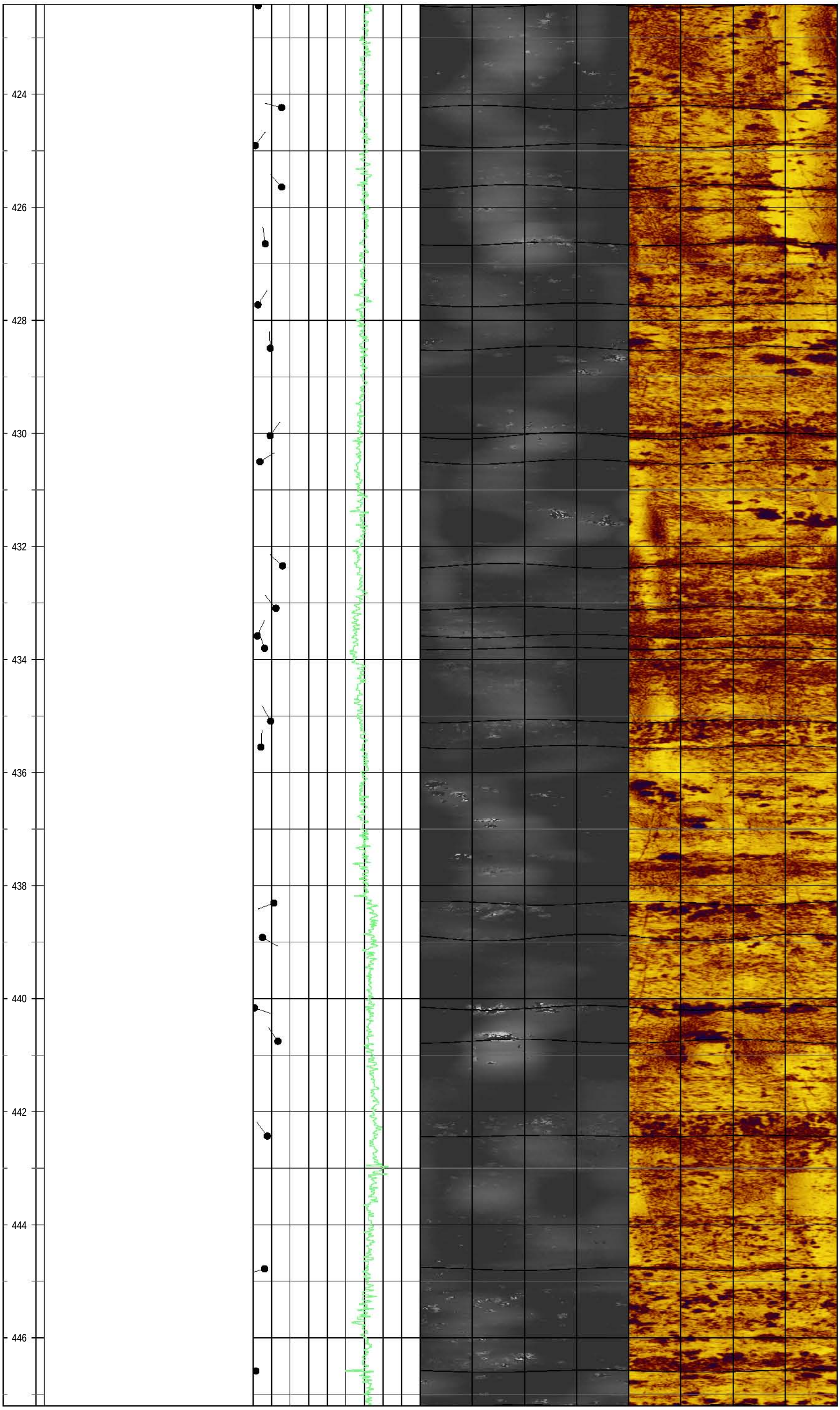
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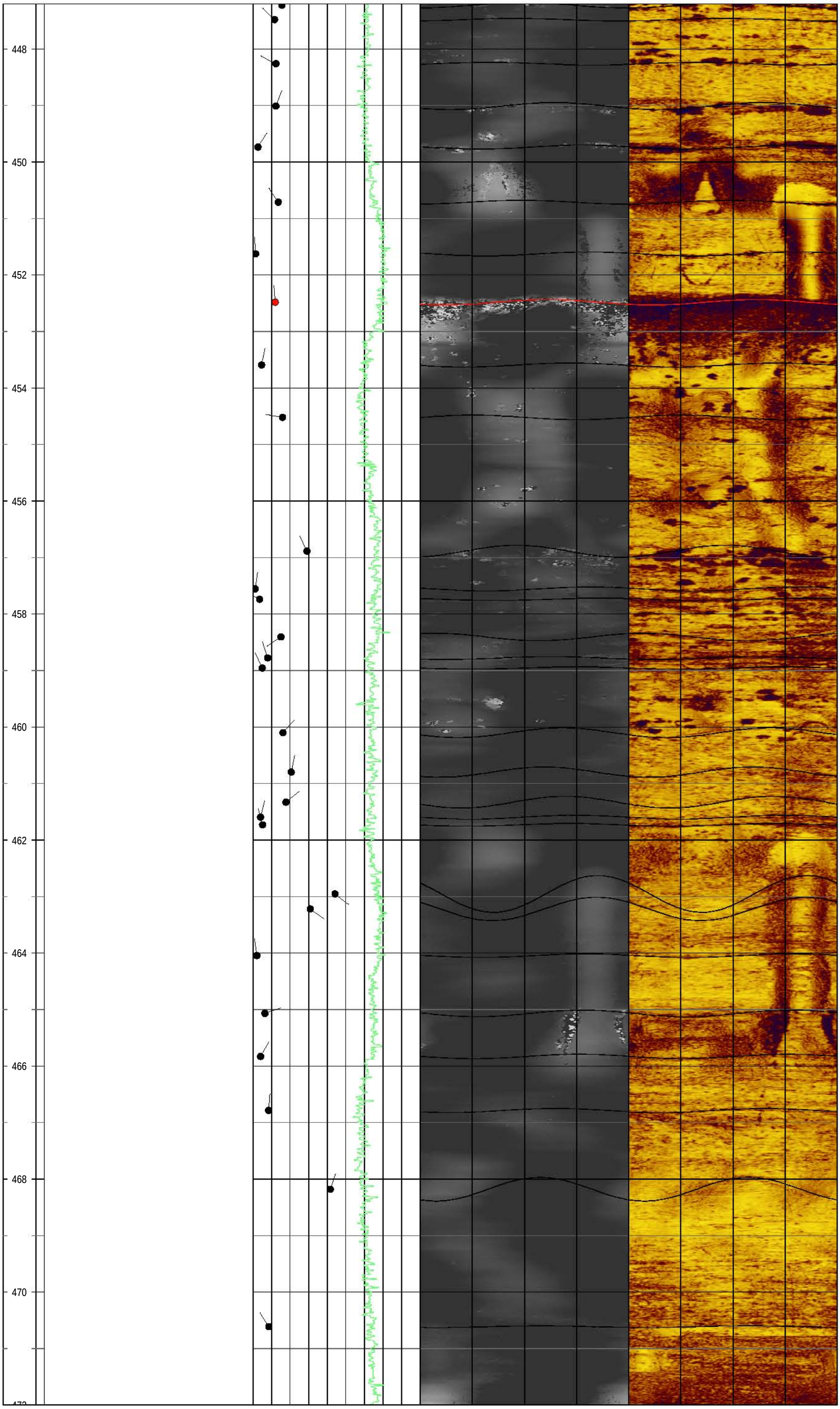
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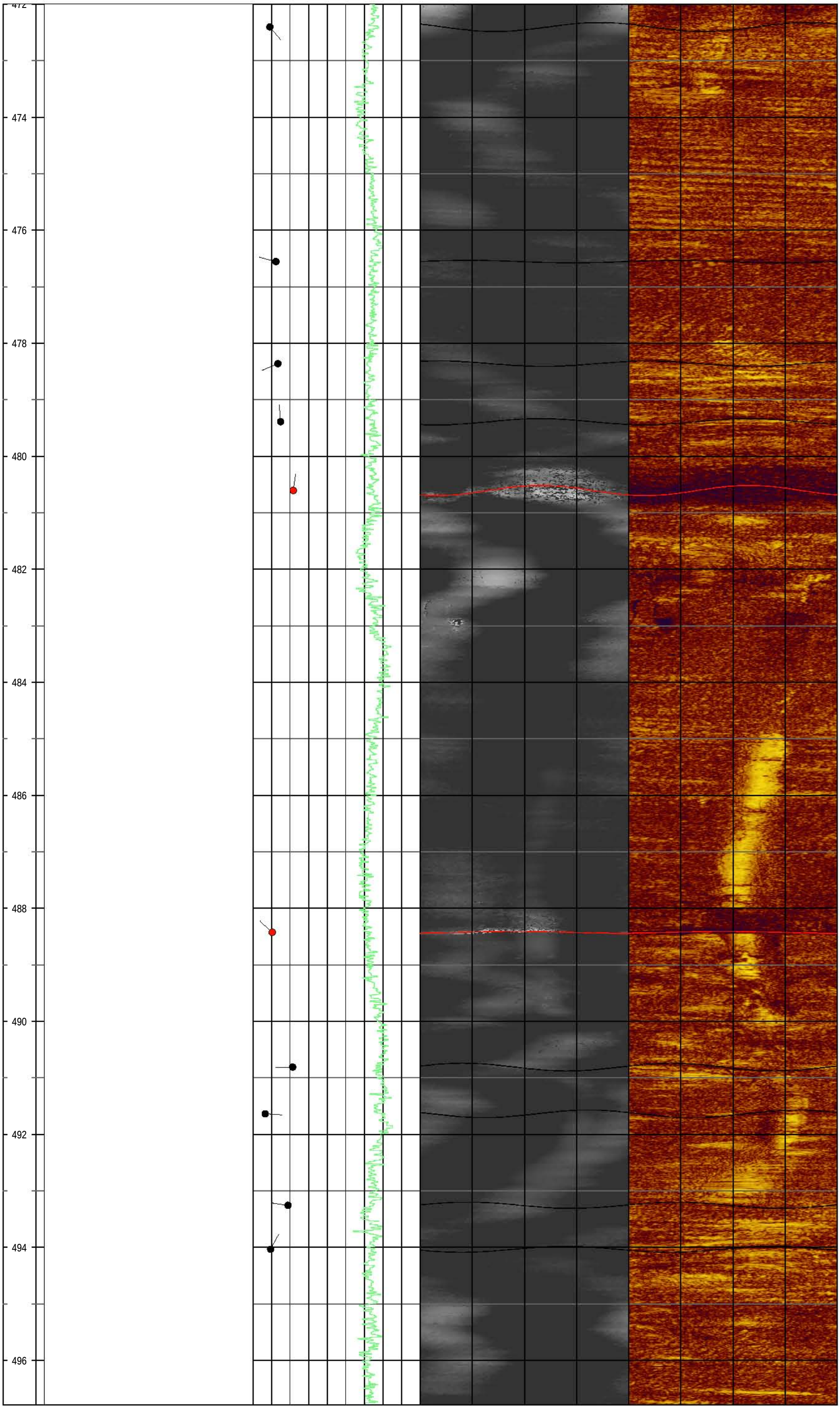
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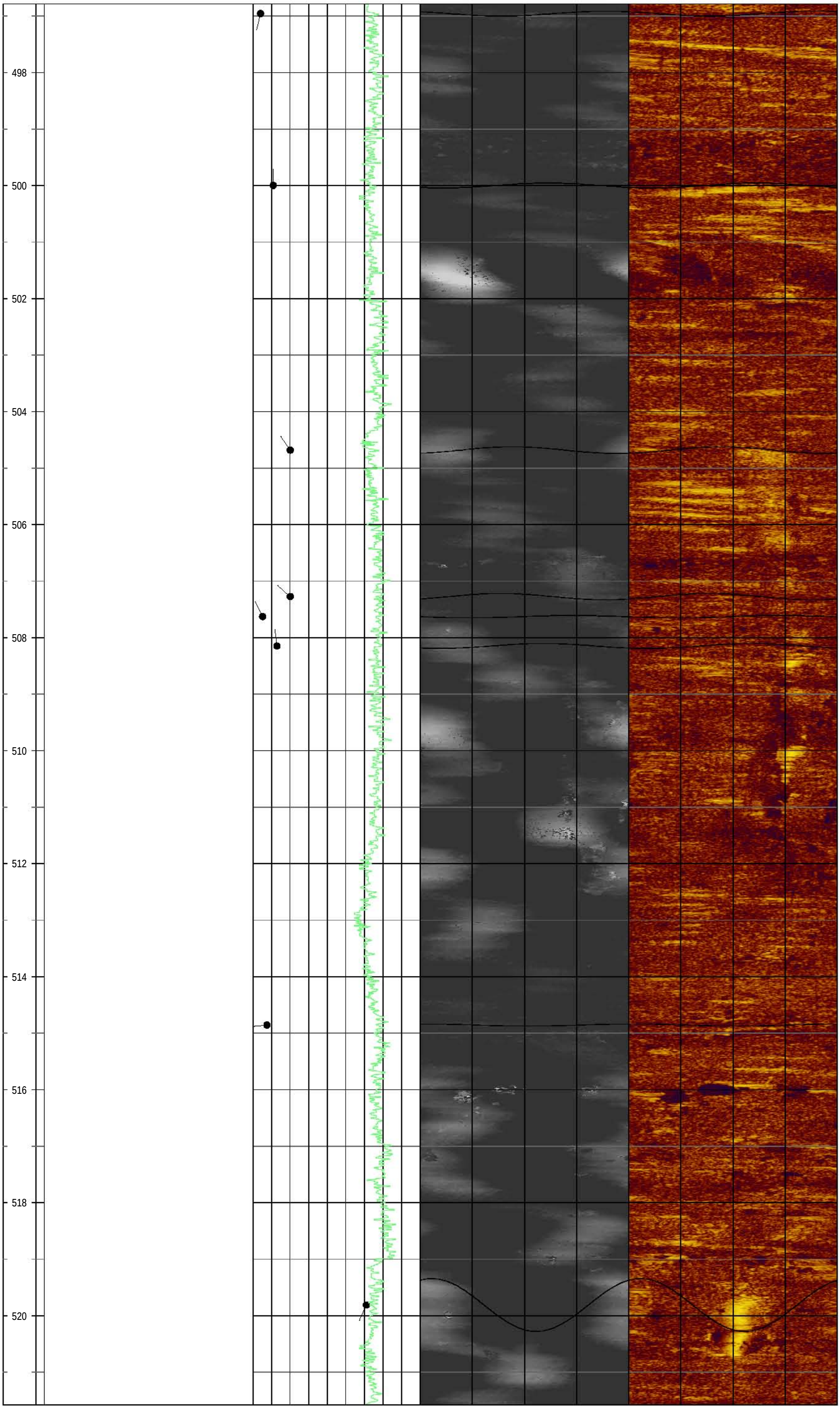

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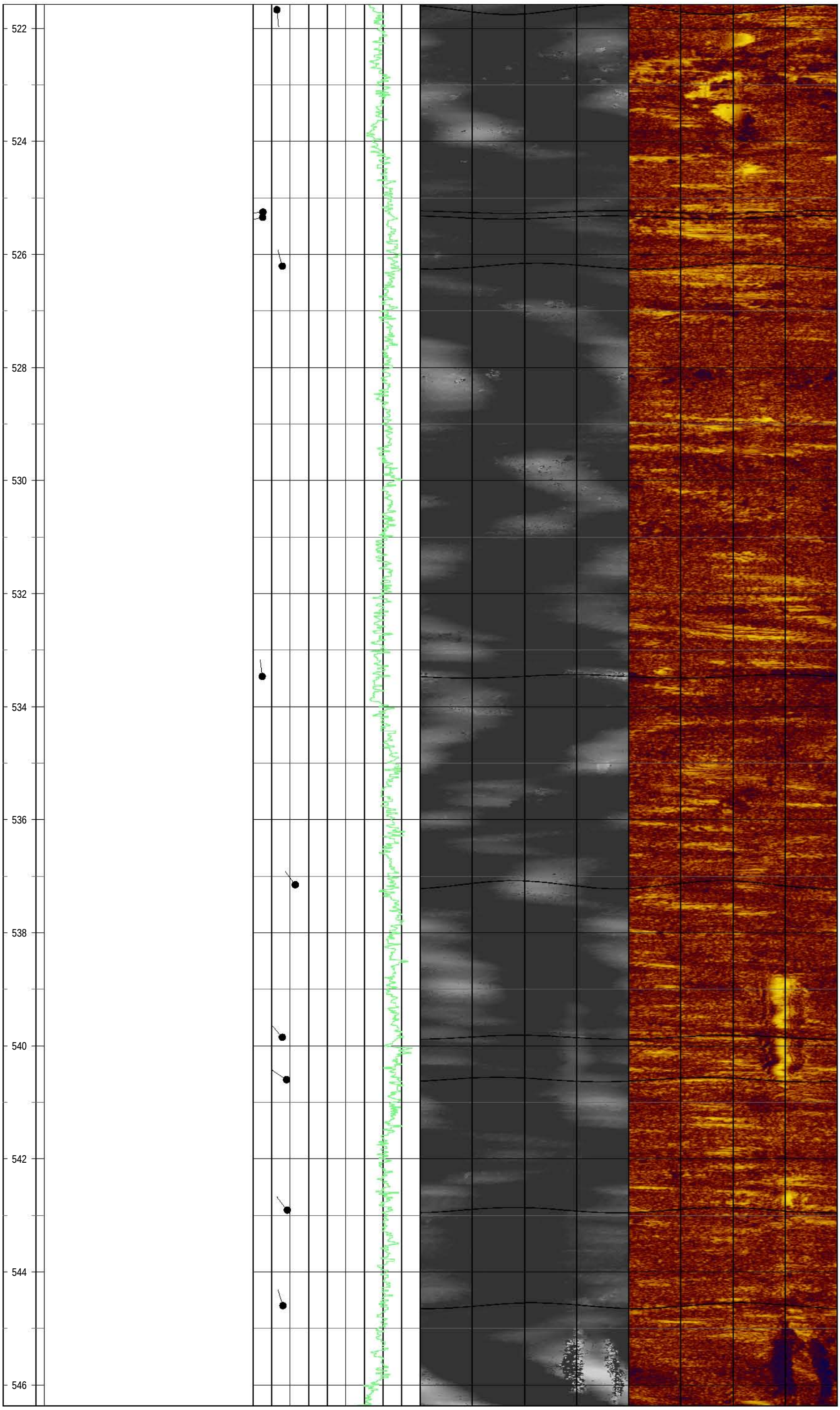
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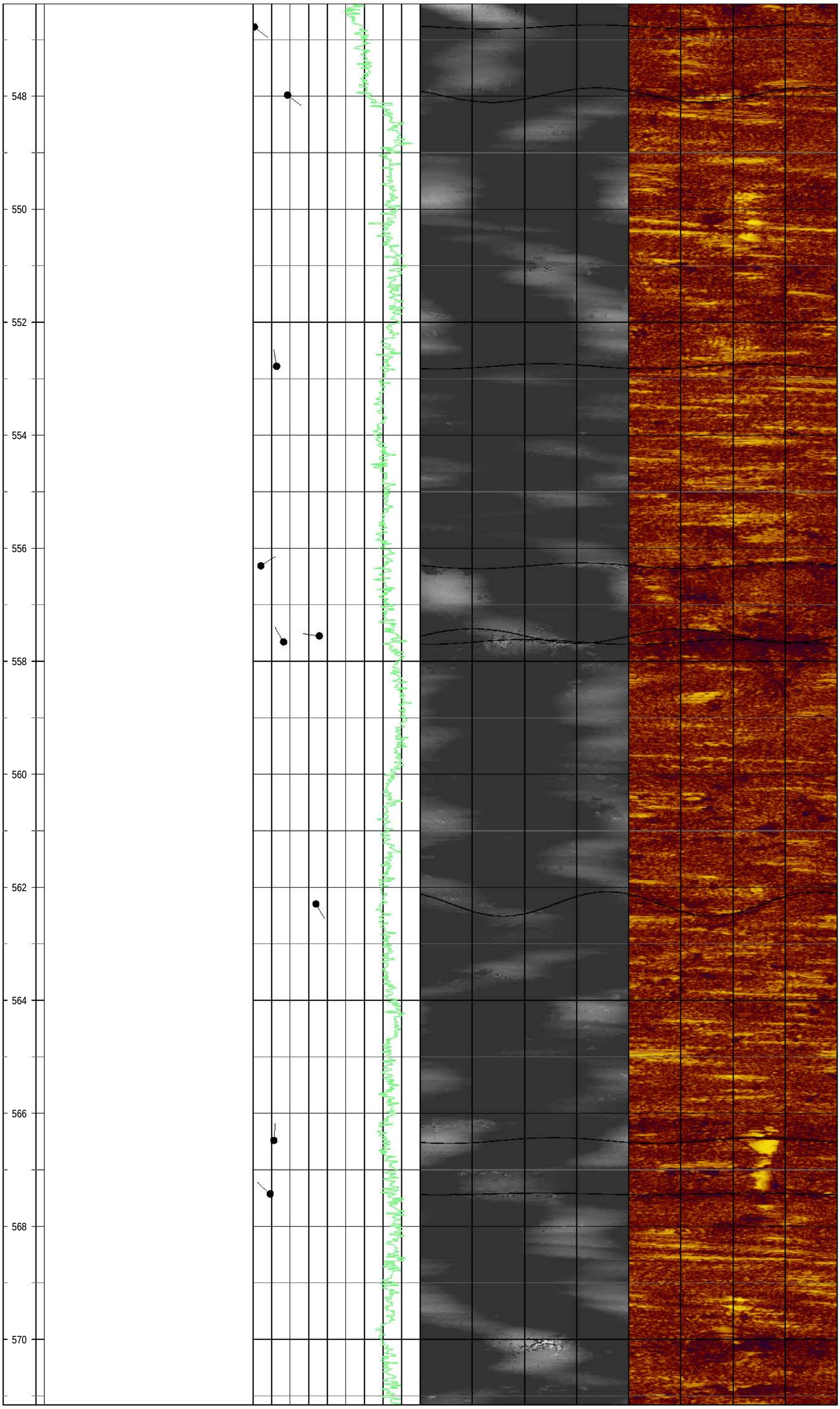
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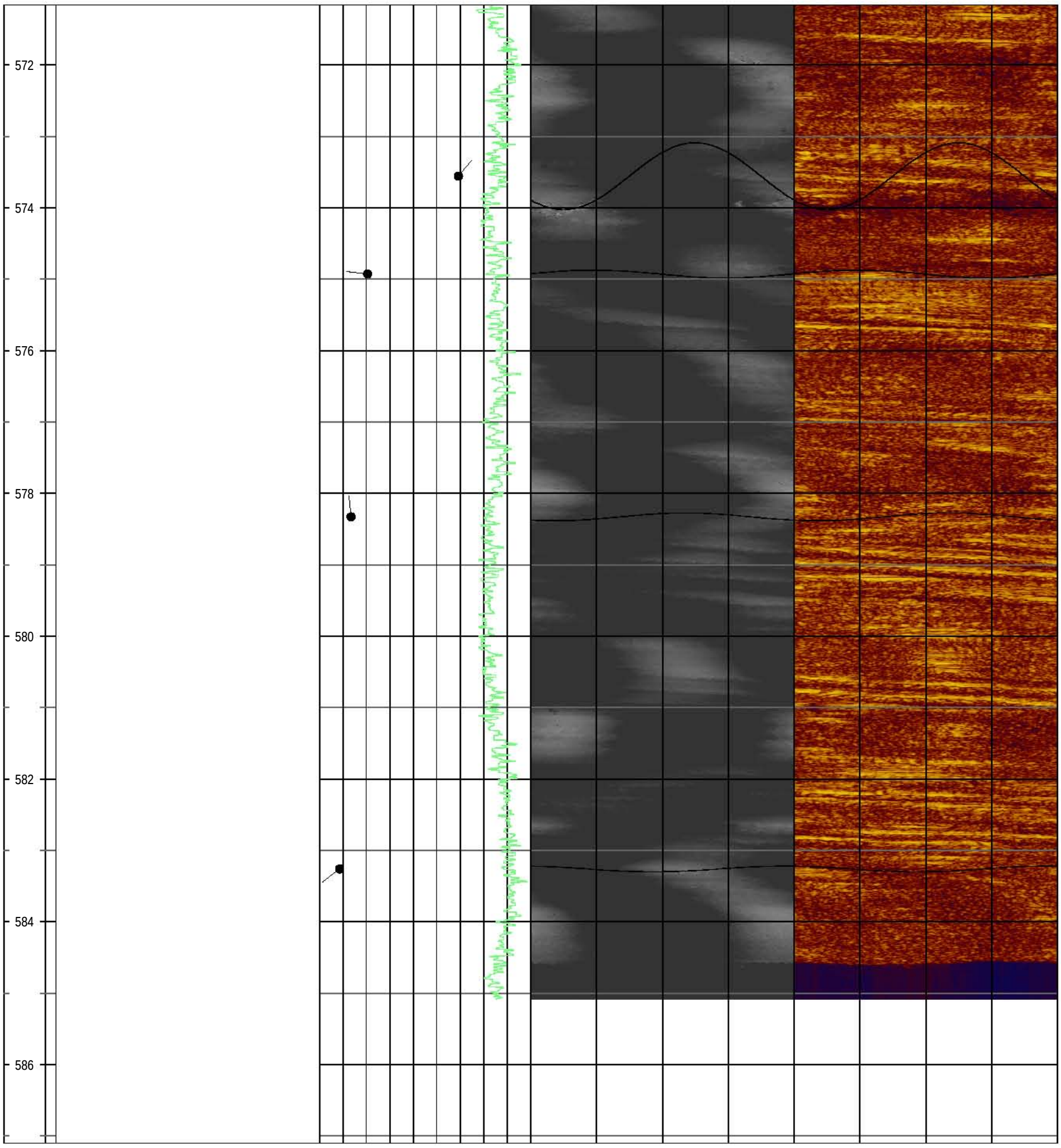
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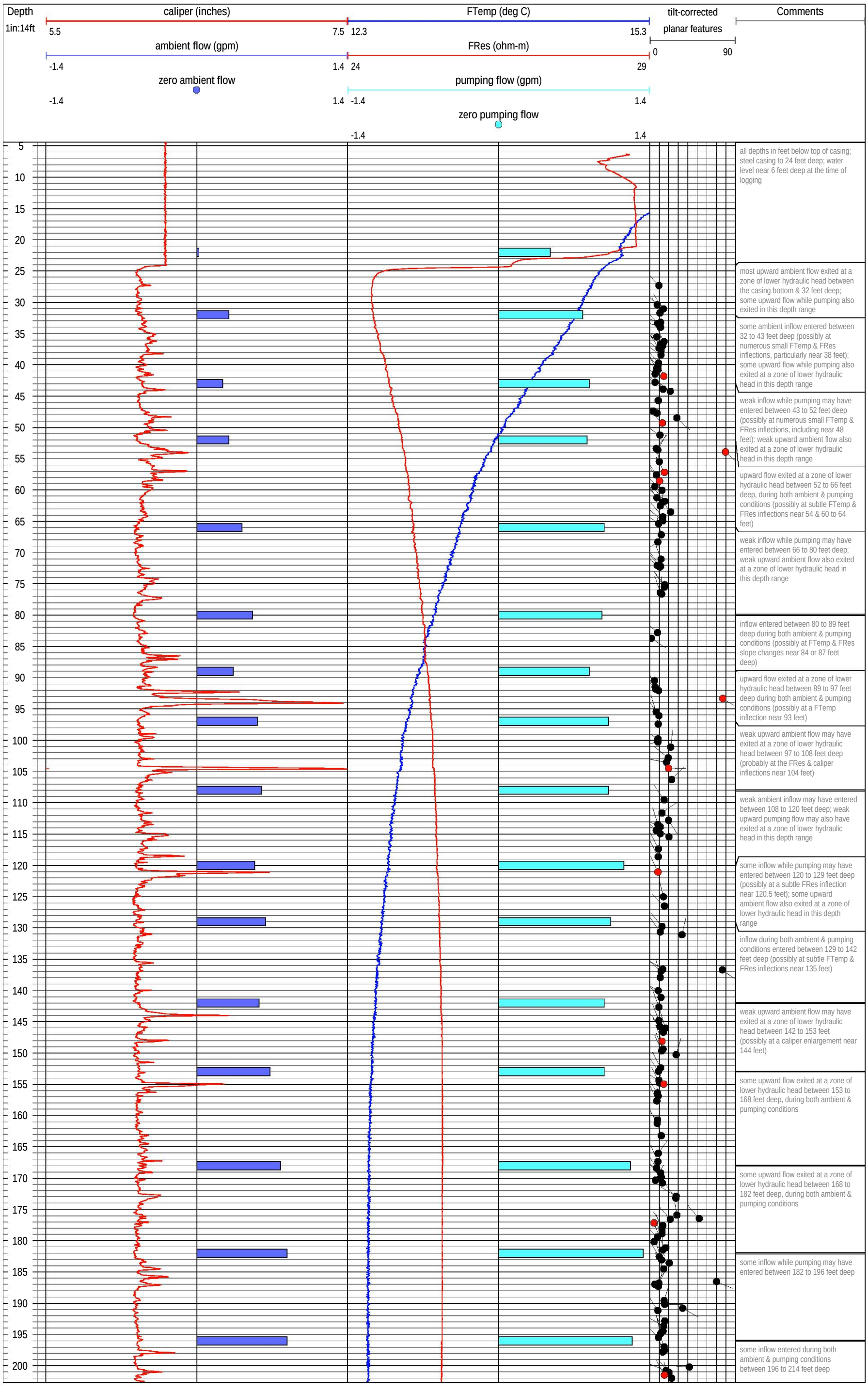
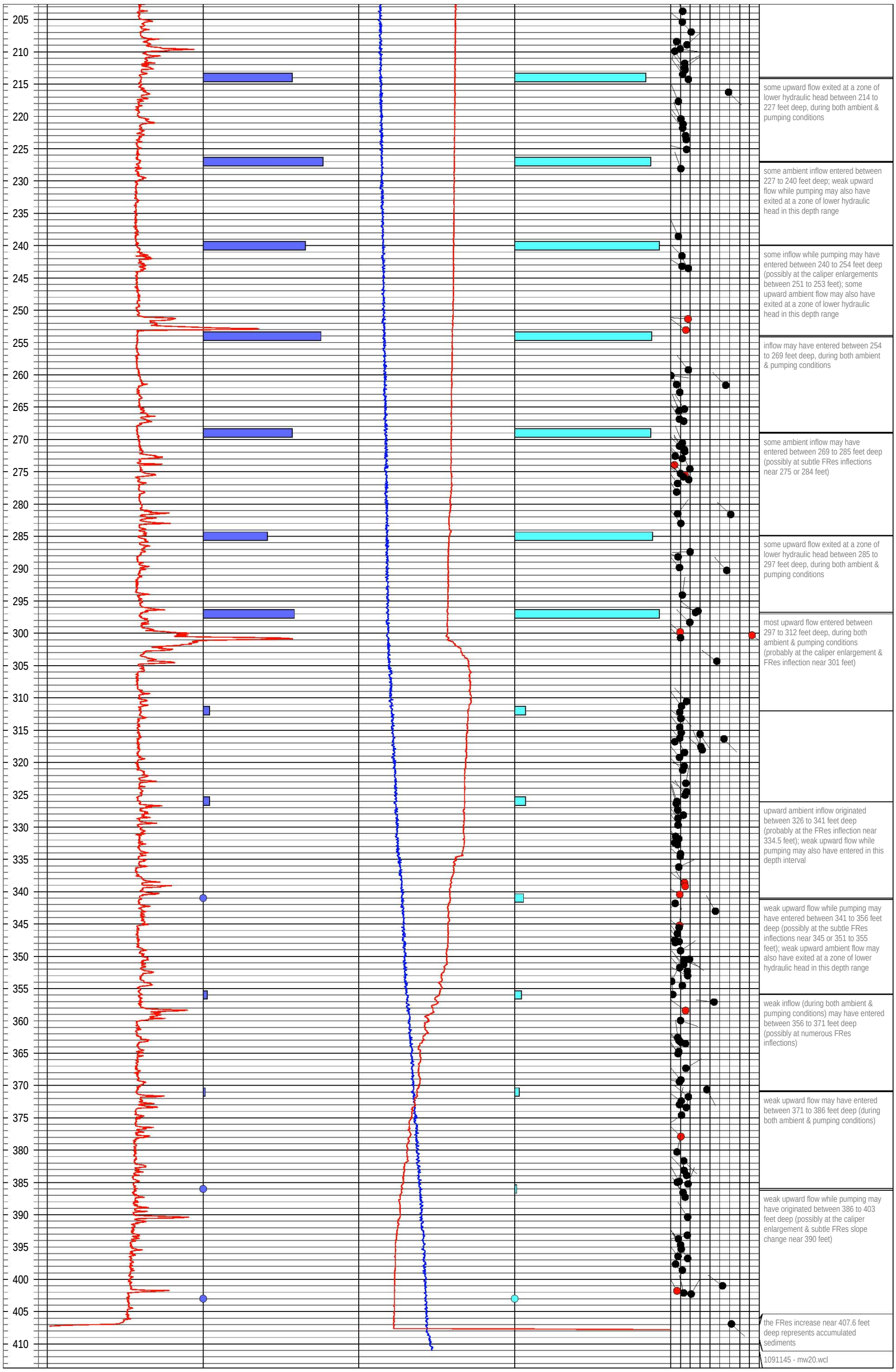
Malcolm Pirnie / South Plainfield, NJ - MW-20 conventional logs

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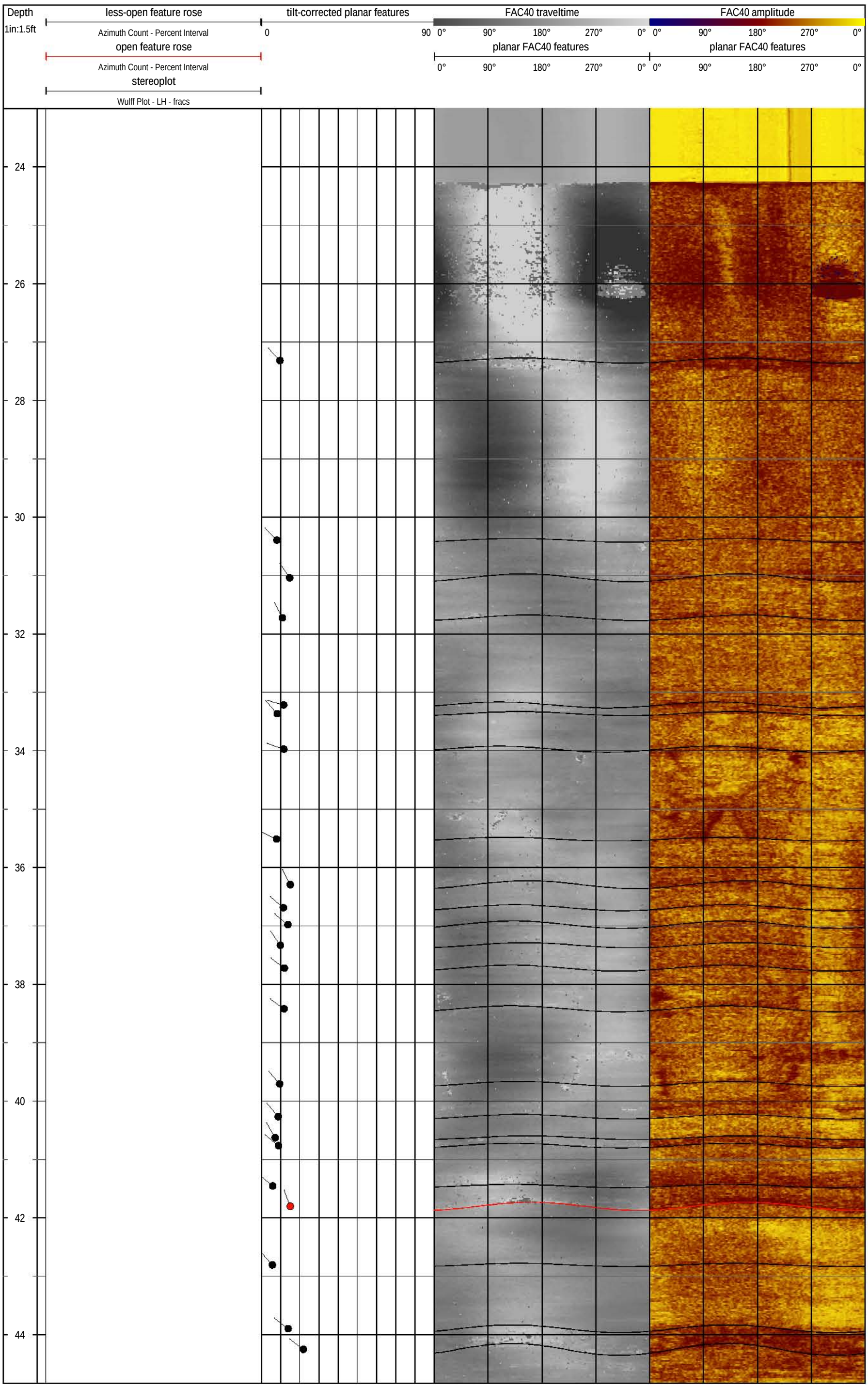
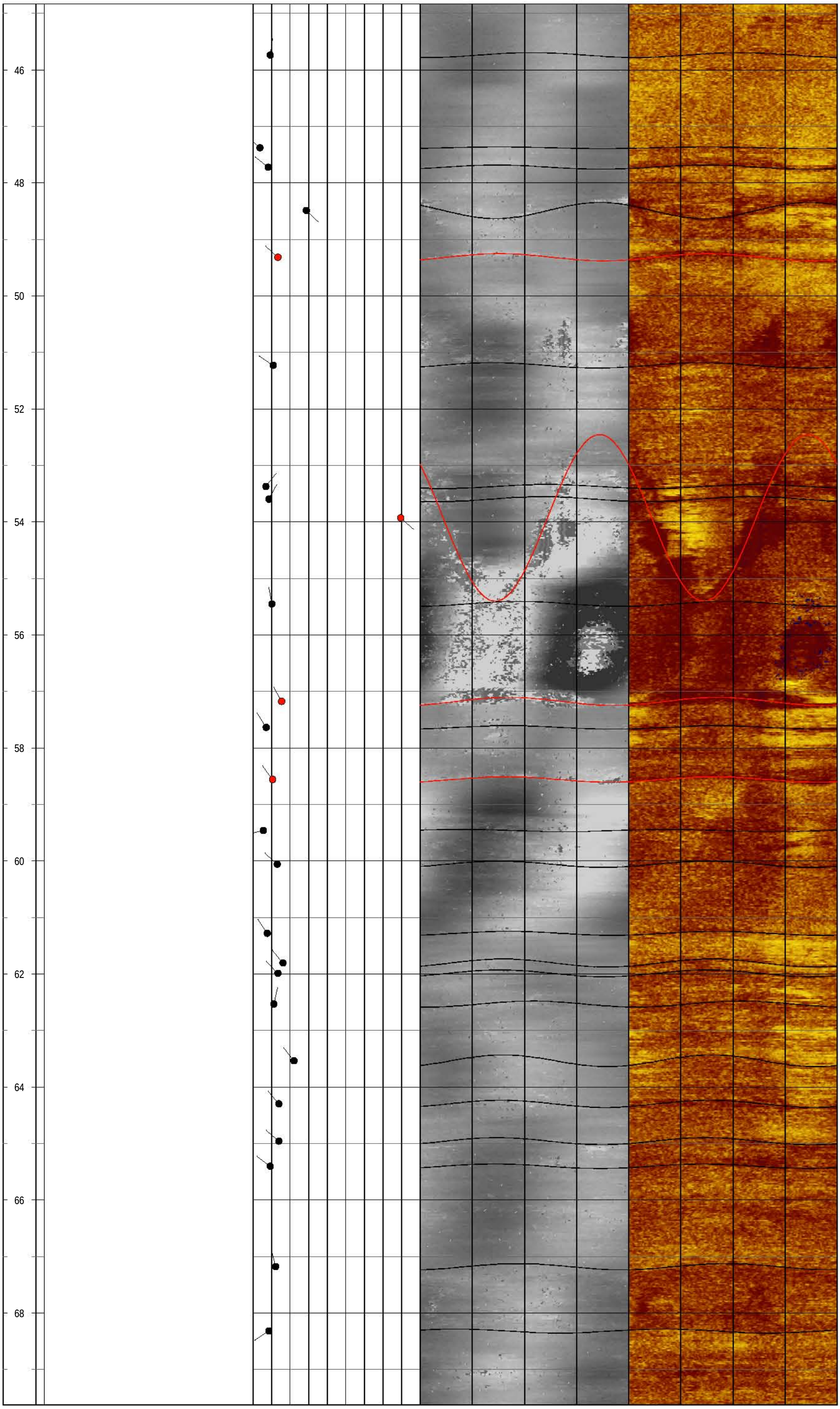
some upward flow exited at a zone of lower hydraulic head between 214 to 227 feet deep, during both ambient & pumping conditions
some ambient inflow entered between 227 to 240 feet deep; weak upward flow while pumping may also have exited at a zone of lower hydraulic head in this depth range
some inflow while pumping may have entered between 240 to 254 feet deep (possibly at the caliper enlargements between 251 to 253 feet); some upward ambient flow may also have exited at a zone of lower hydraulic head in this depth range
inflow may have entered between 254 to 269 feet deep, during both ambient & pumping conditions
some ambient inflow may have entered between 269 to 285 feet deep (possibly at subtle FRes inflections near 275 or 284 feet)
some upward flow exited at a zone of lower hydraulic head between 285 to 297 feet deep, during both ambient & pumping conditions
most upward flow entered between 297 to 312 feet deep, during both ambient & pumping conditions (probably at the caliper enlargement & FRes inflection near 301 feet)
upward ambient inflow originated between 326 to 341 feet deep (probably at the FRes inflection near 334.5 feet); weak upward flow while pumping may also have entered in this depth interval
weak upward flow while pumping may have entered between 341 to 356 feet deep (possibly at the subtle FRes inflections near 345 or 351 to 355 feet); weak upward ambient flow may also have exited at a zone of lower hydraulic head in this depth range
weak inflow (during both ambient & pumping conditions) may have entered between 356 to 371 feet deep (possibly at numerous FRes inflections)
weak upward flow may have entered between 371 to 386 feet deep (during both ambient & pumping conditions)
weak upward flow while pumping may have originated between 386 to 403 feet deep (possibly at the caliper enlargement & subtle FRes slope change near 390 feet)
the FRes increase near 407.6 feet deep represents accumulated sediments
1091145 - mw20.wcl

Malcolm Pirnie / South Plainfield, NJ - MW-20 acoustic televiewer log



R2-0017209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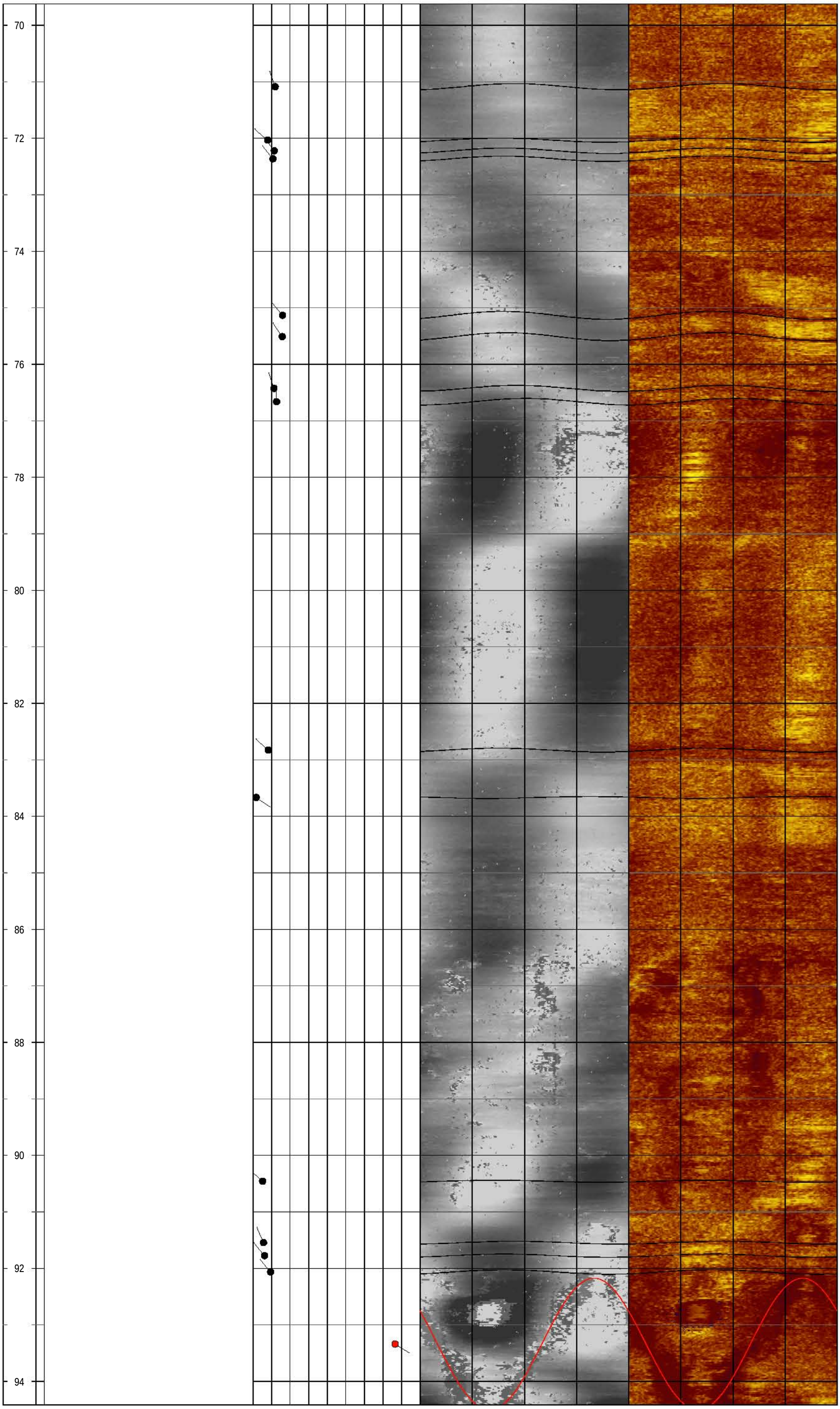
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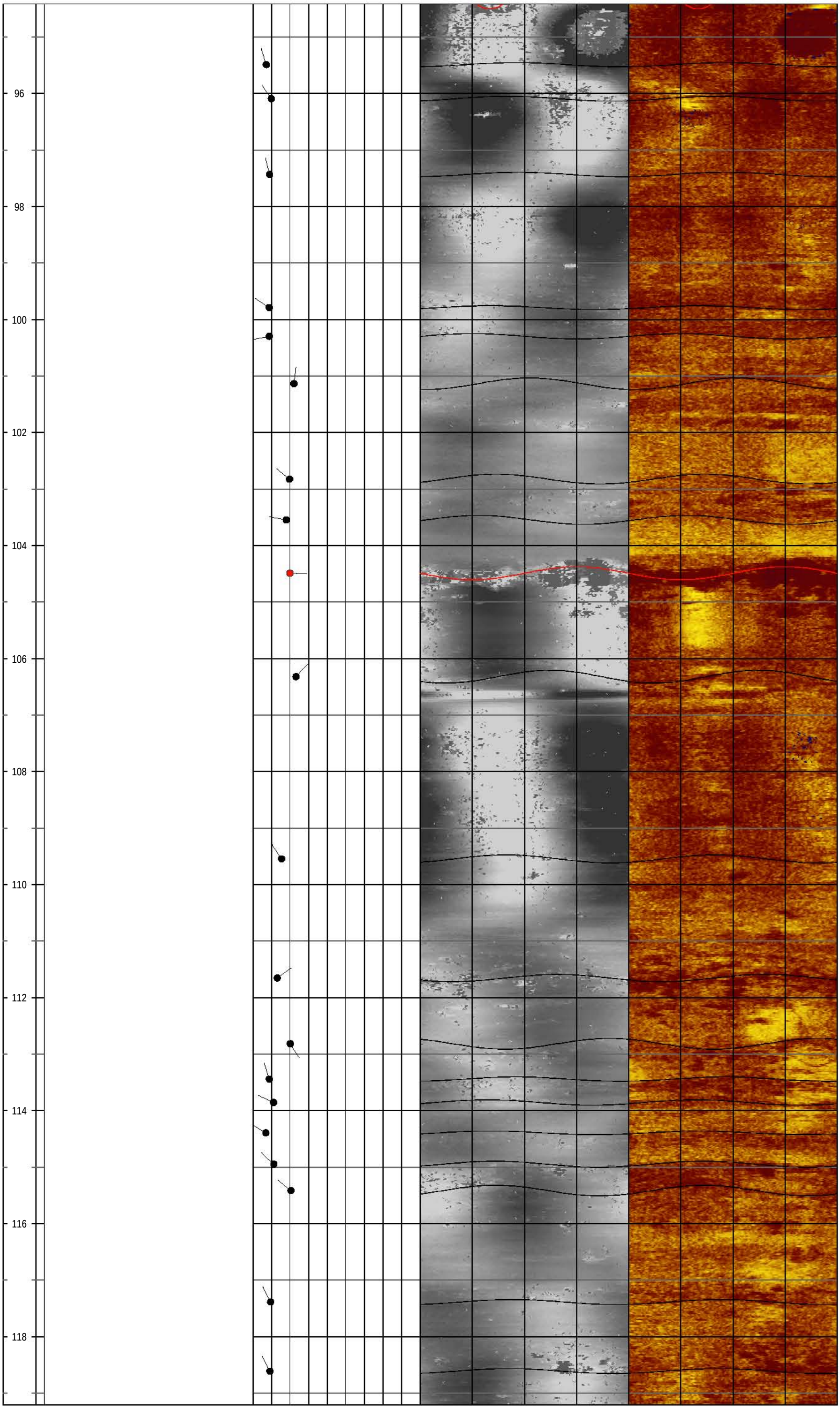
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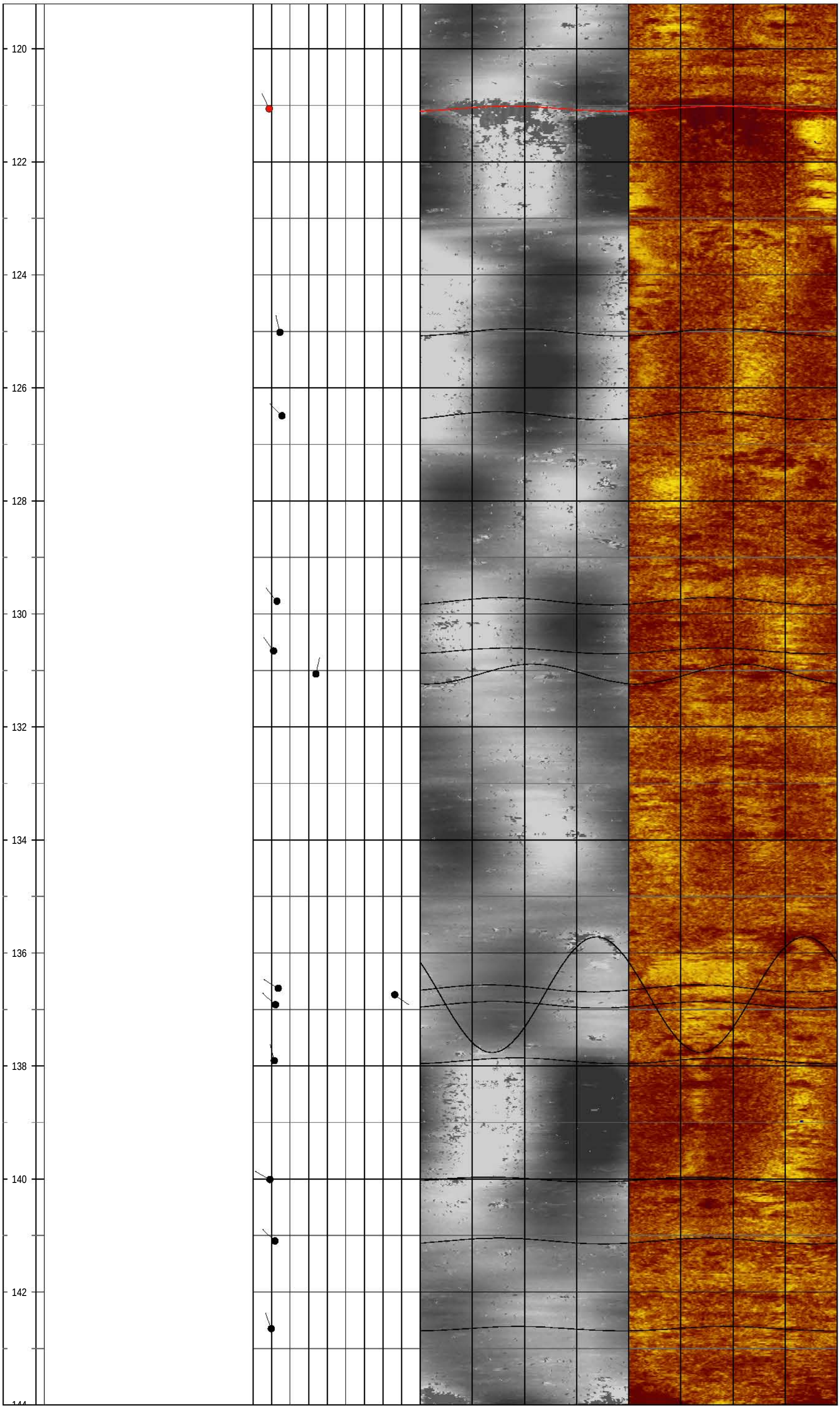
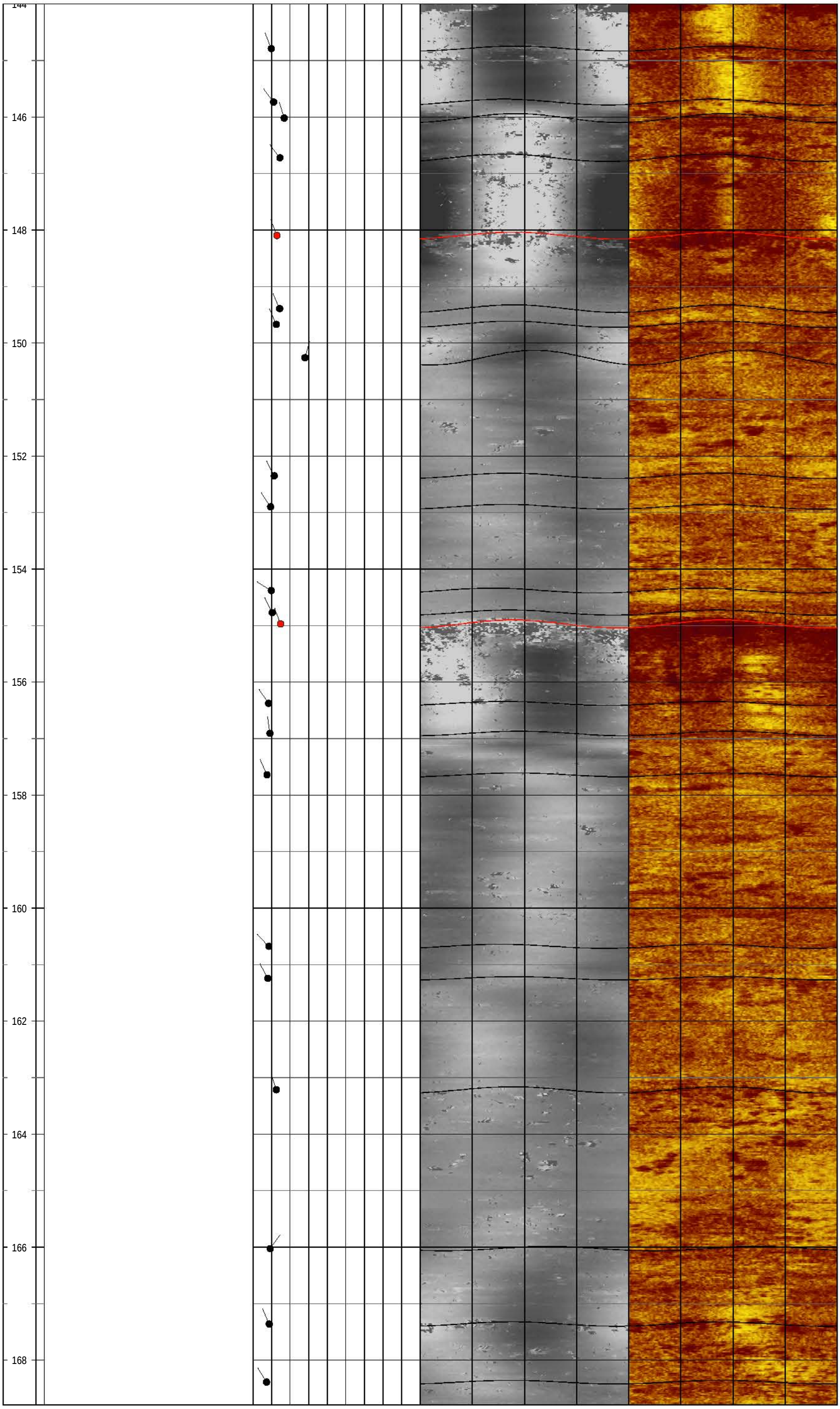


R2-0017213



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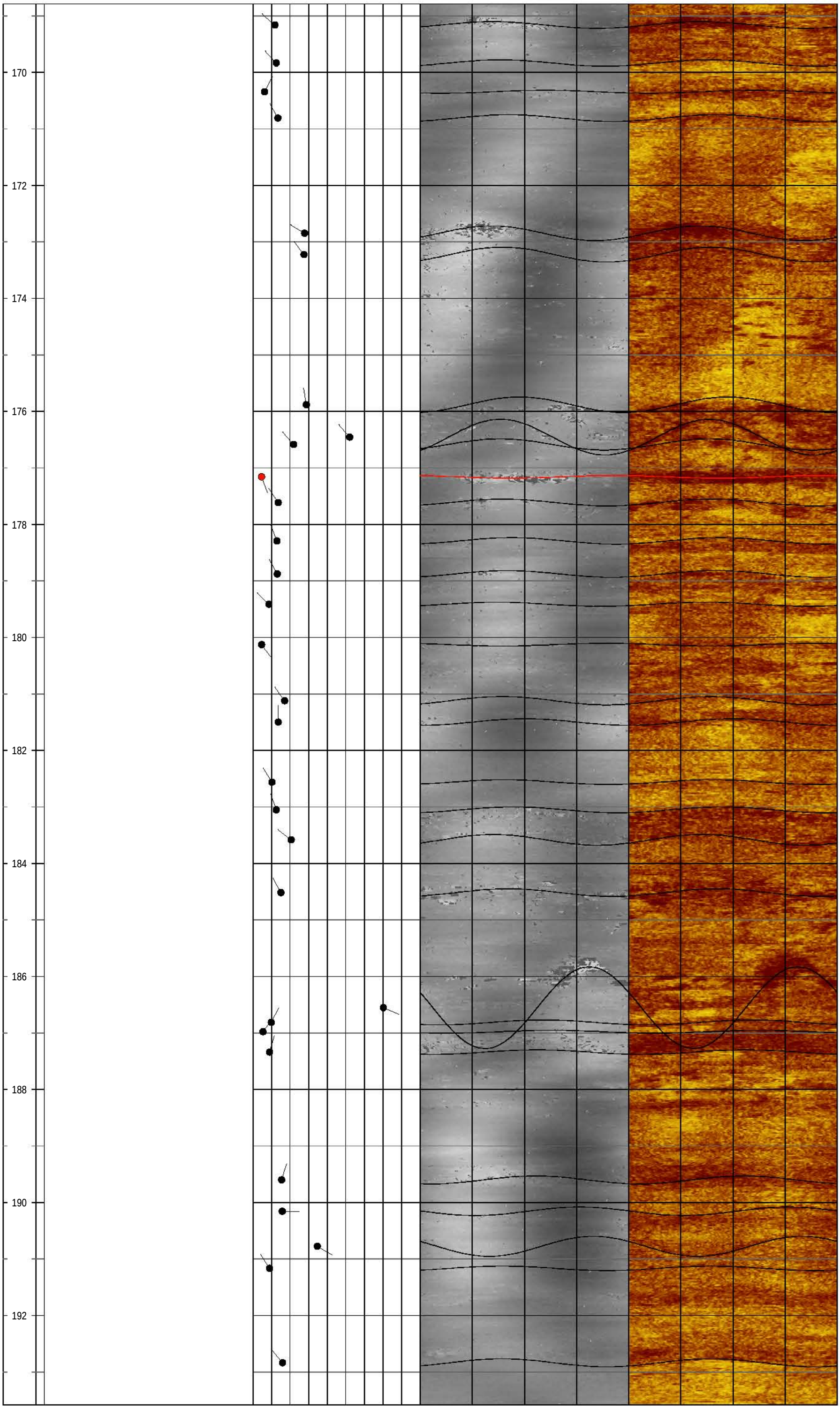
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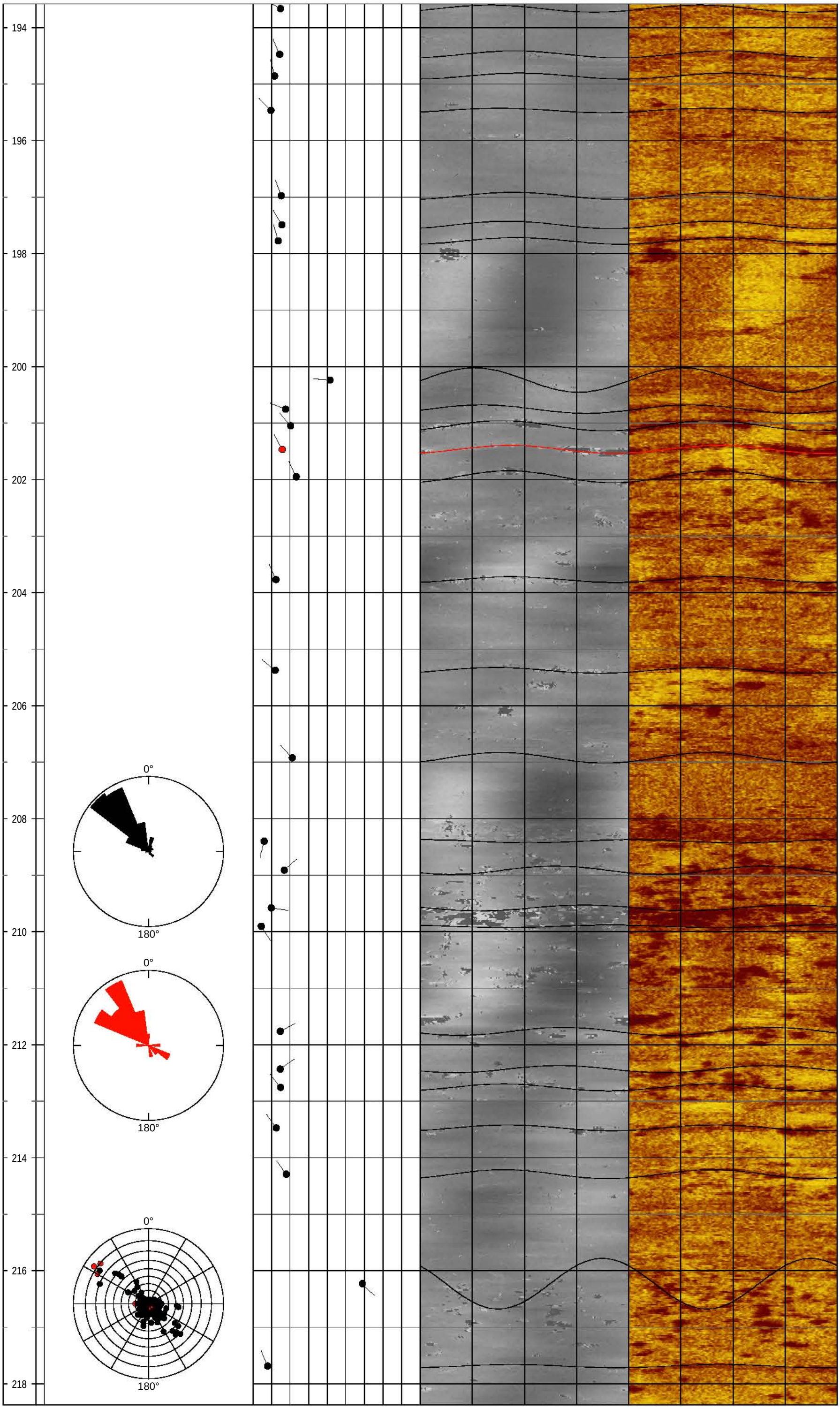
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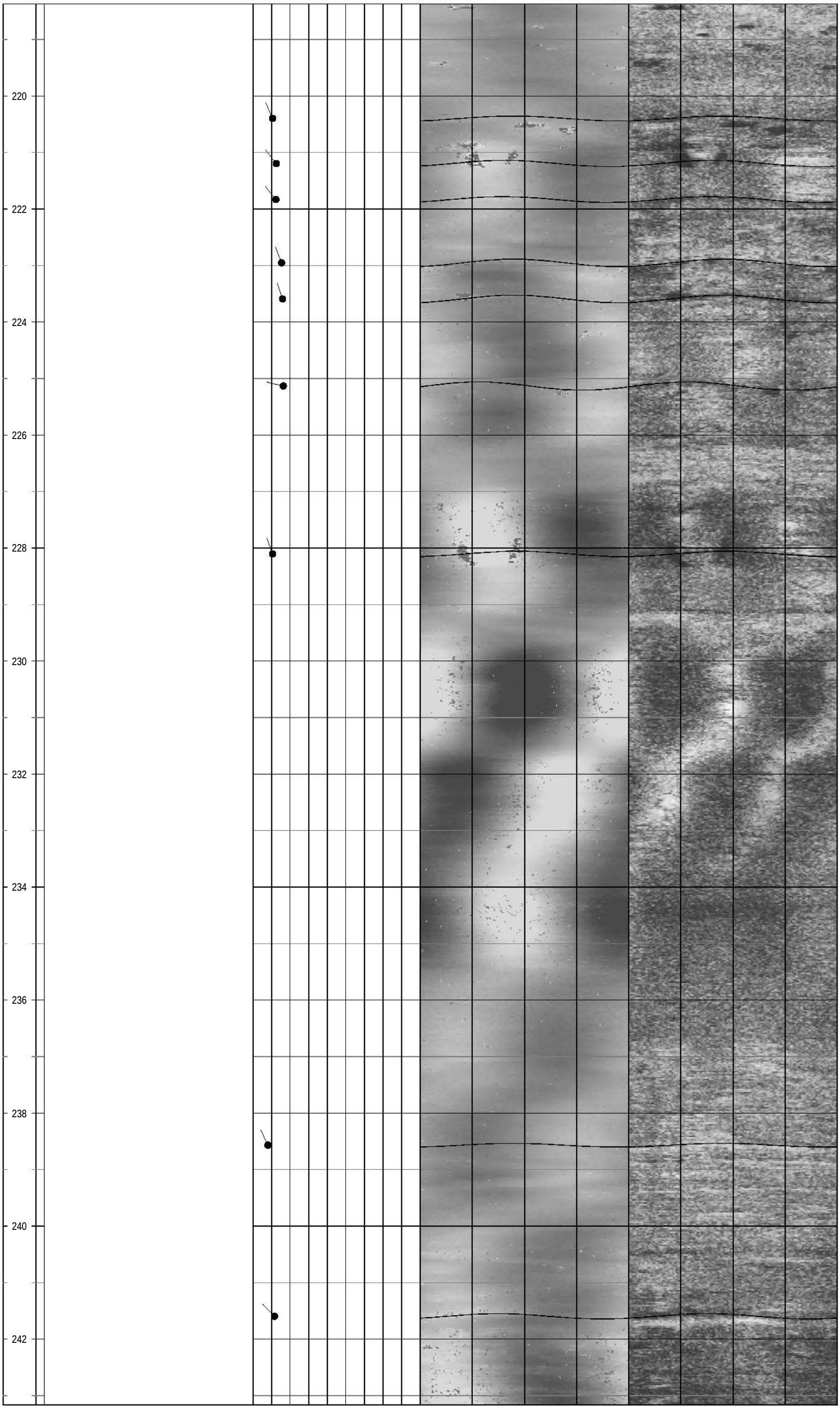
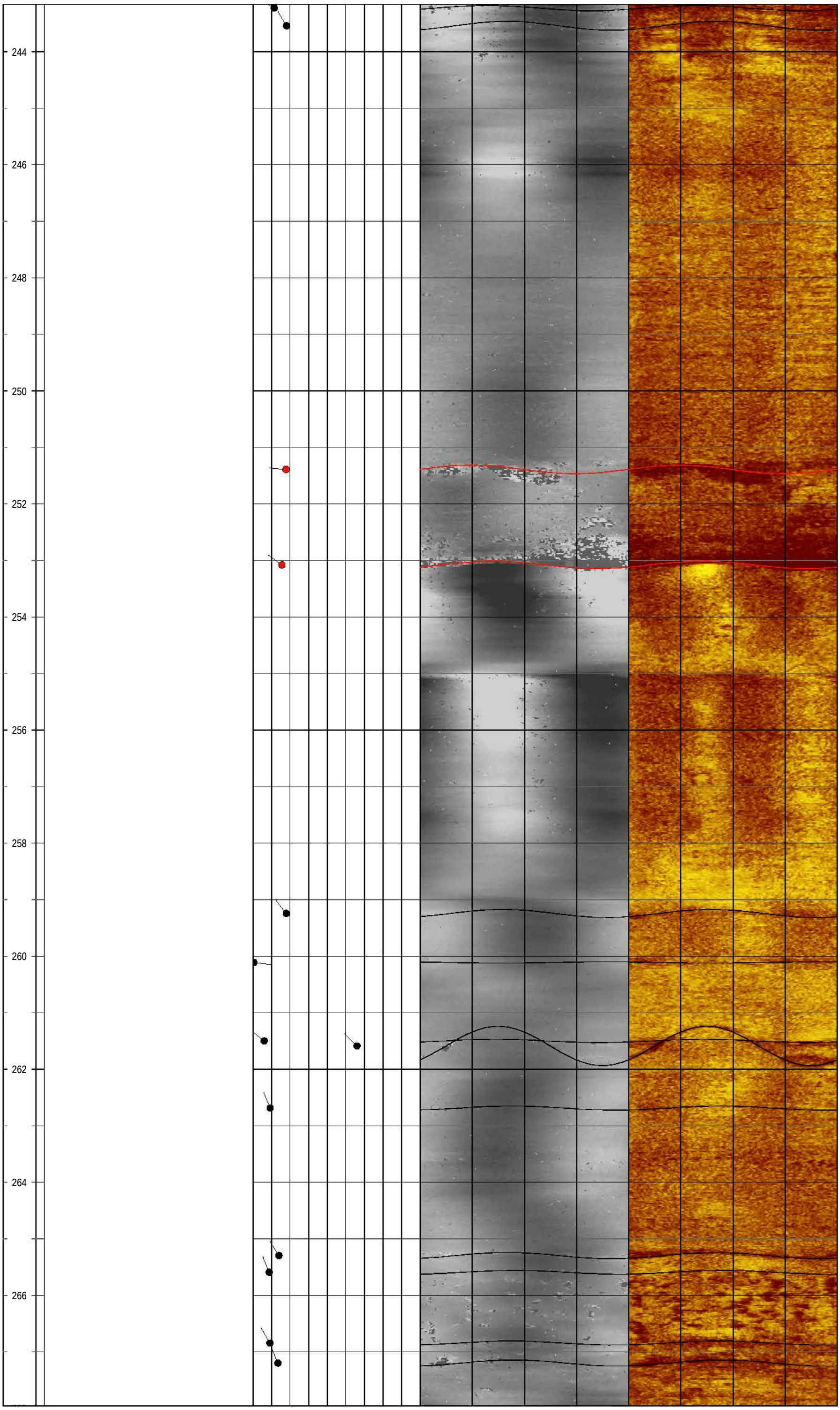
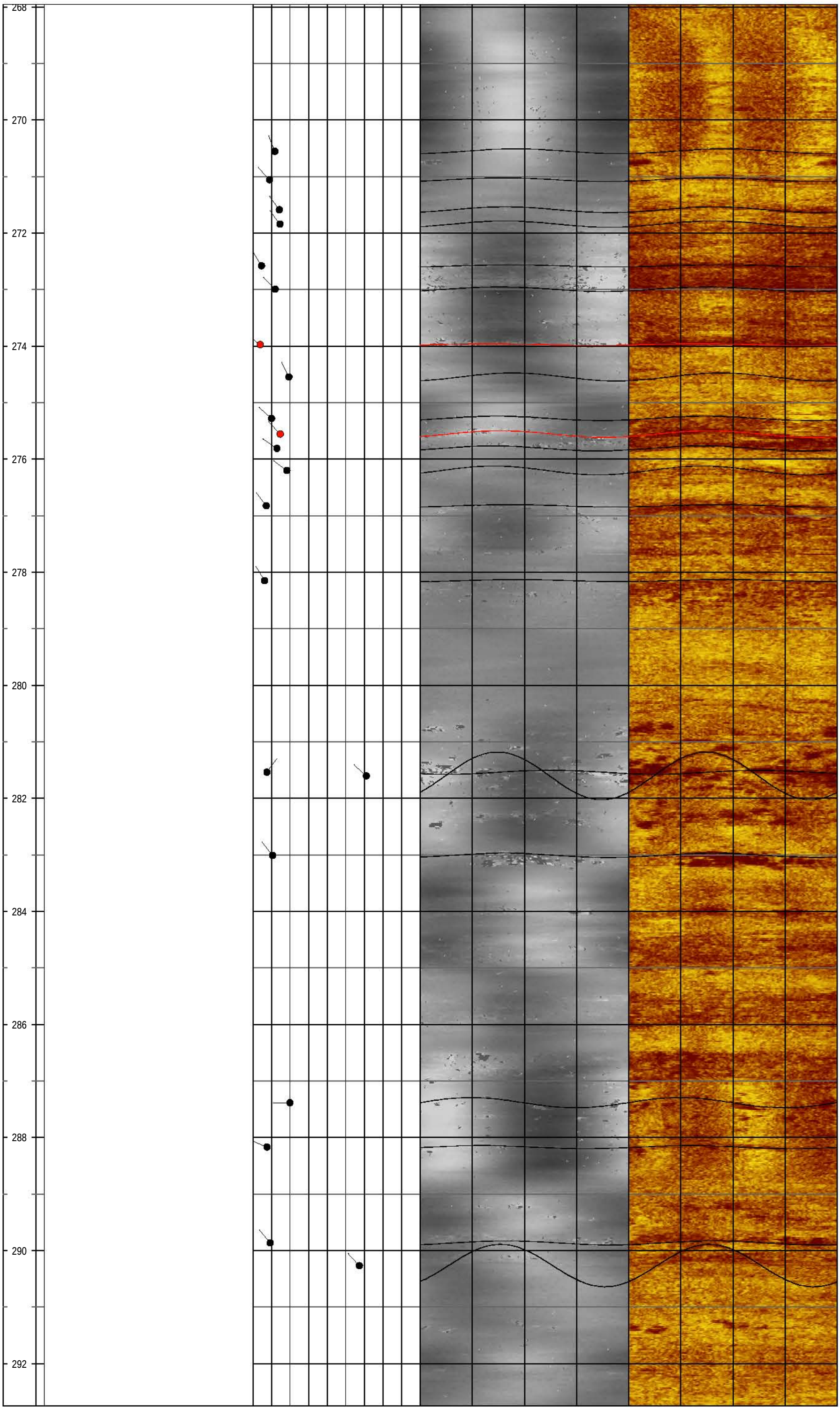


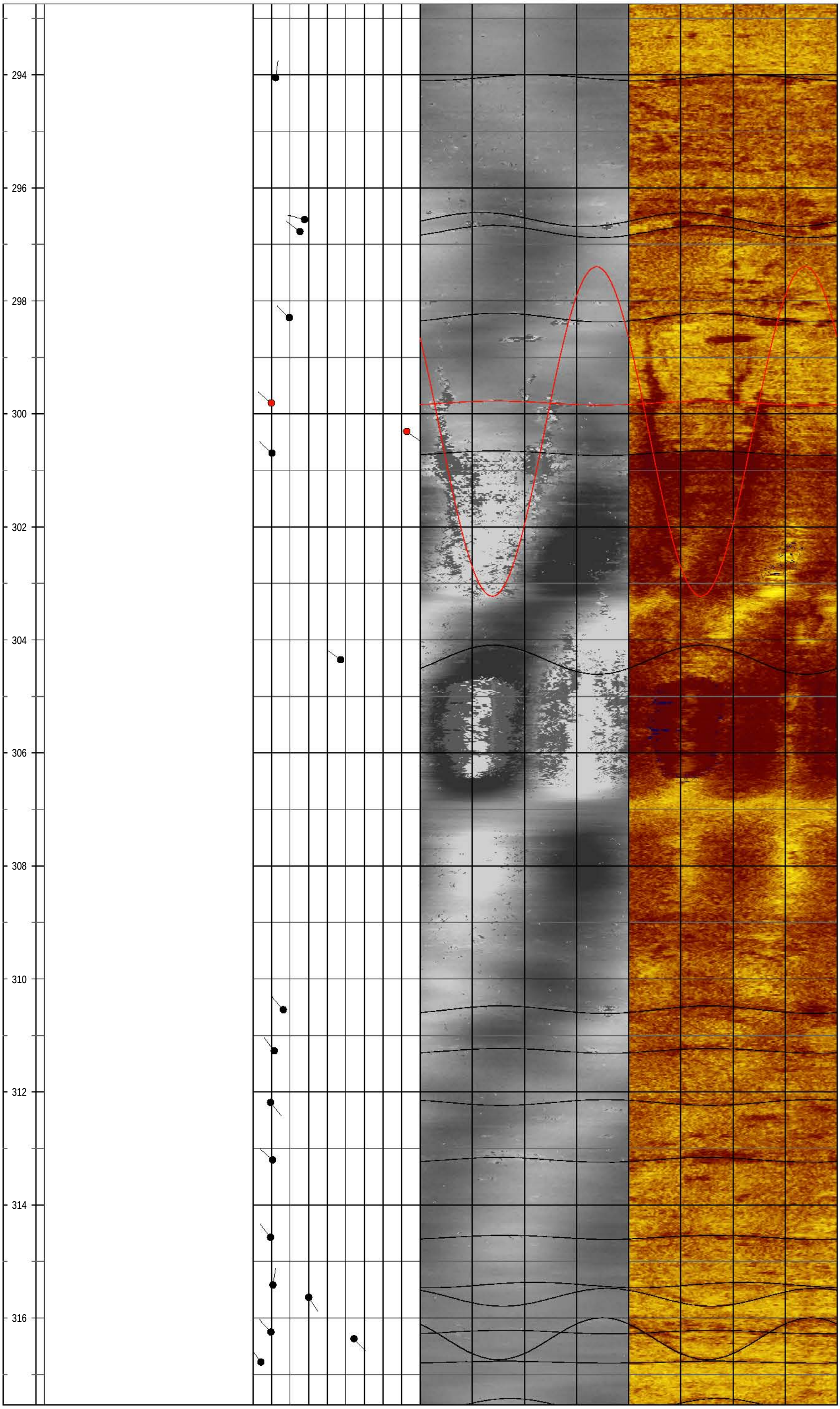
R2-0017217



R2-0017218



R2-0017219



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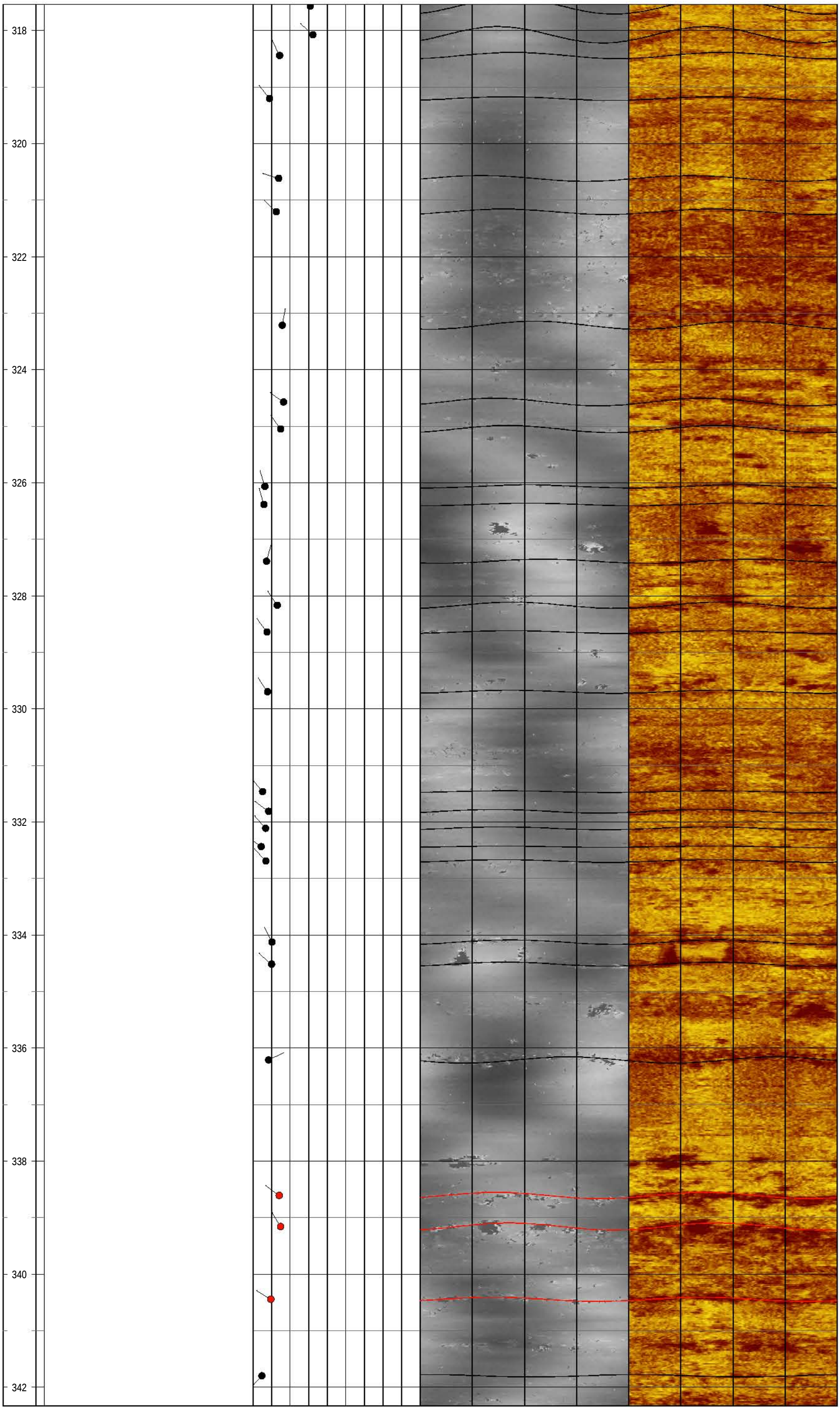
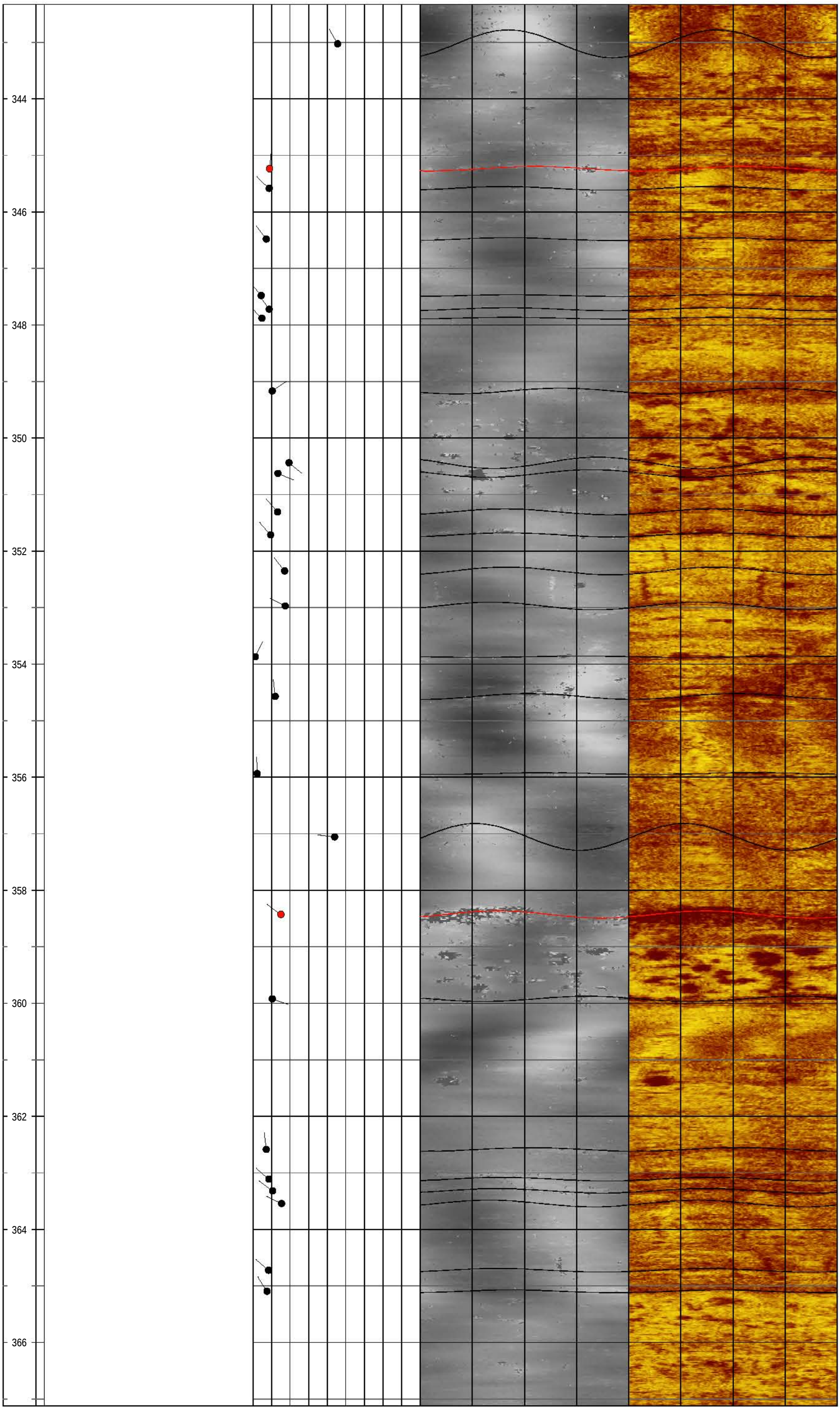
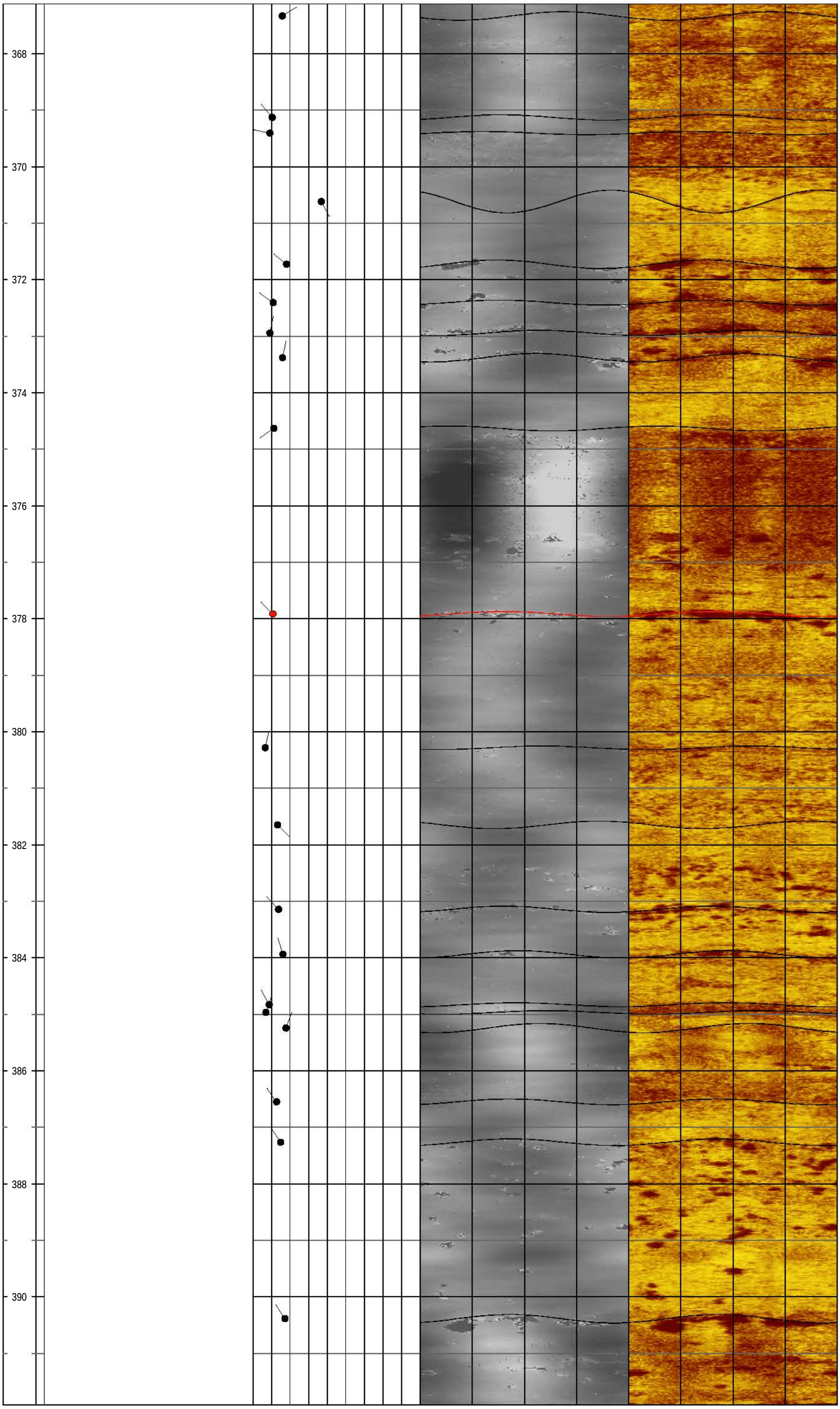


R2-0017221



R2-0017222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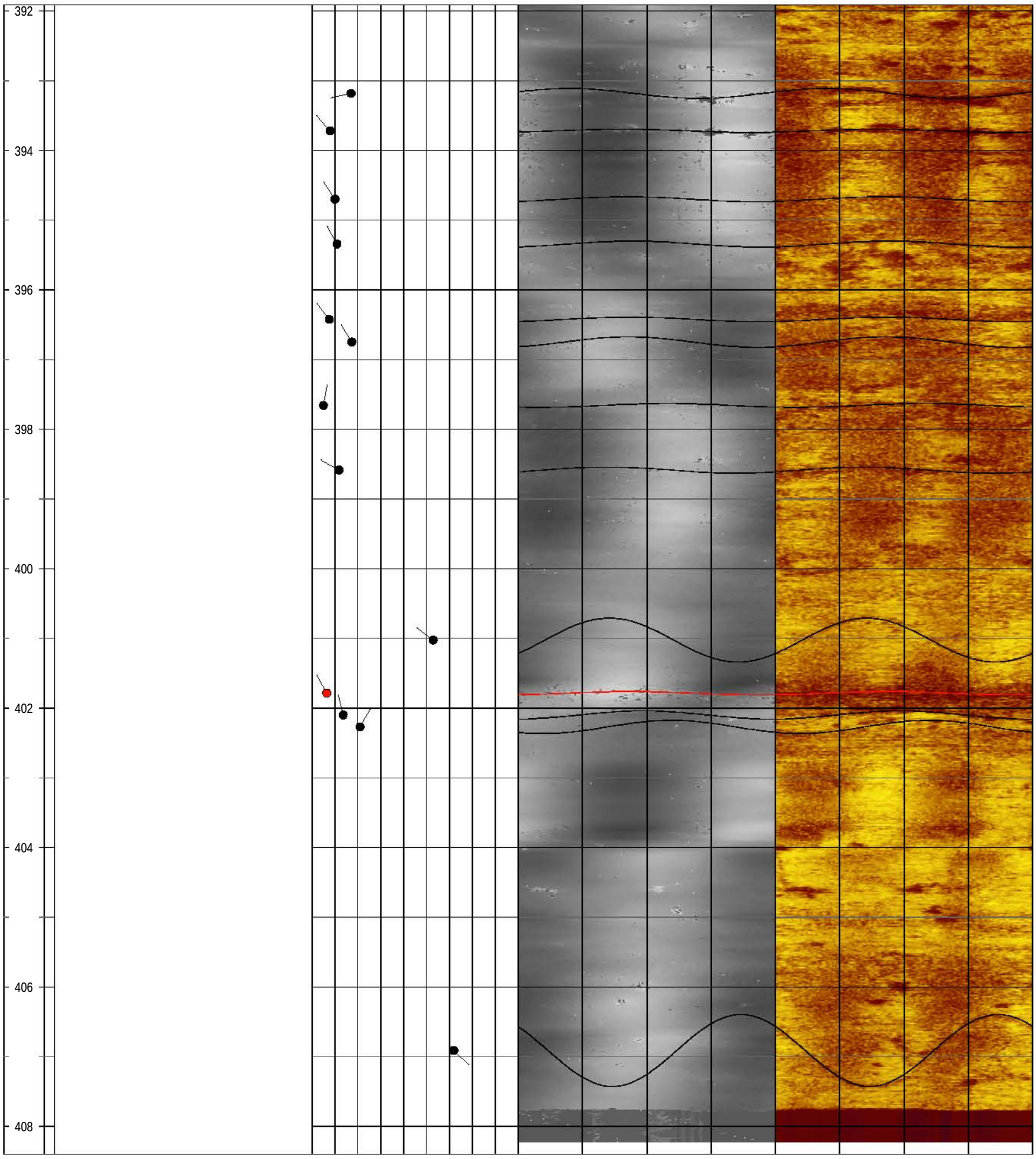
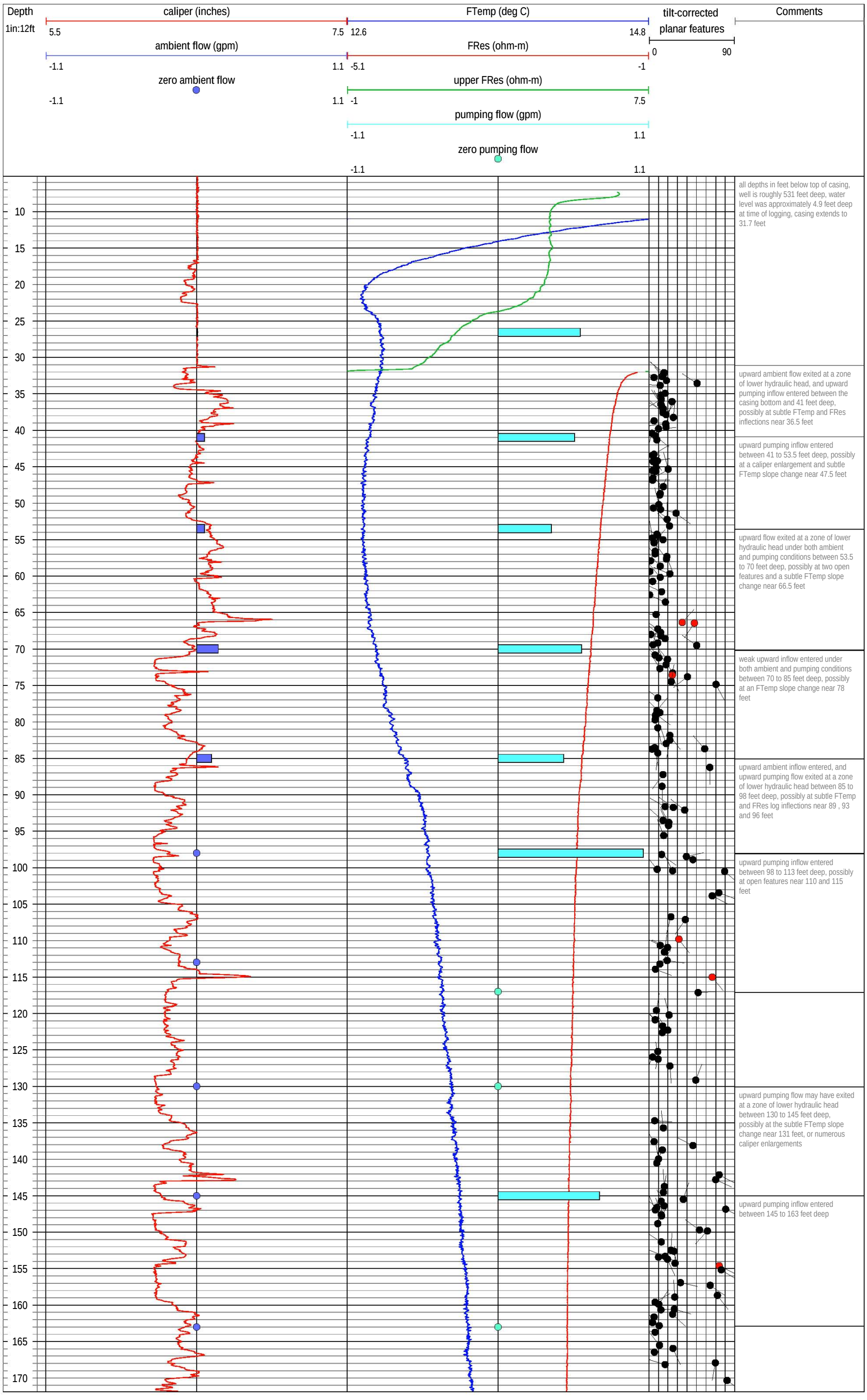
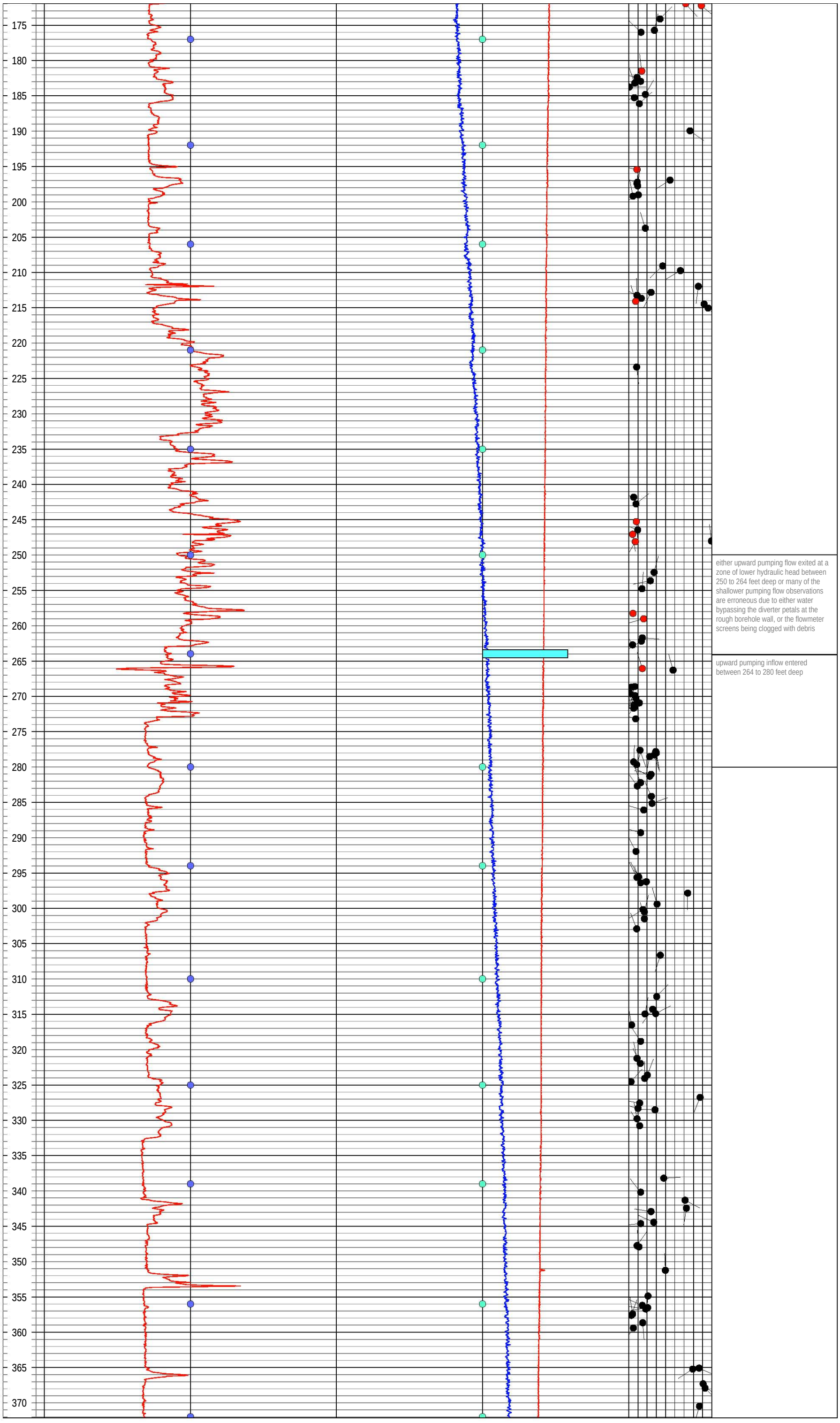
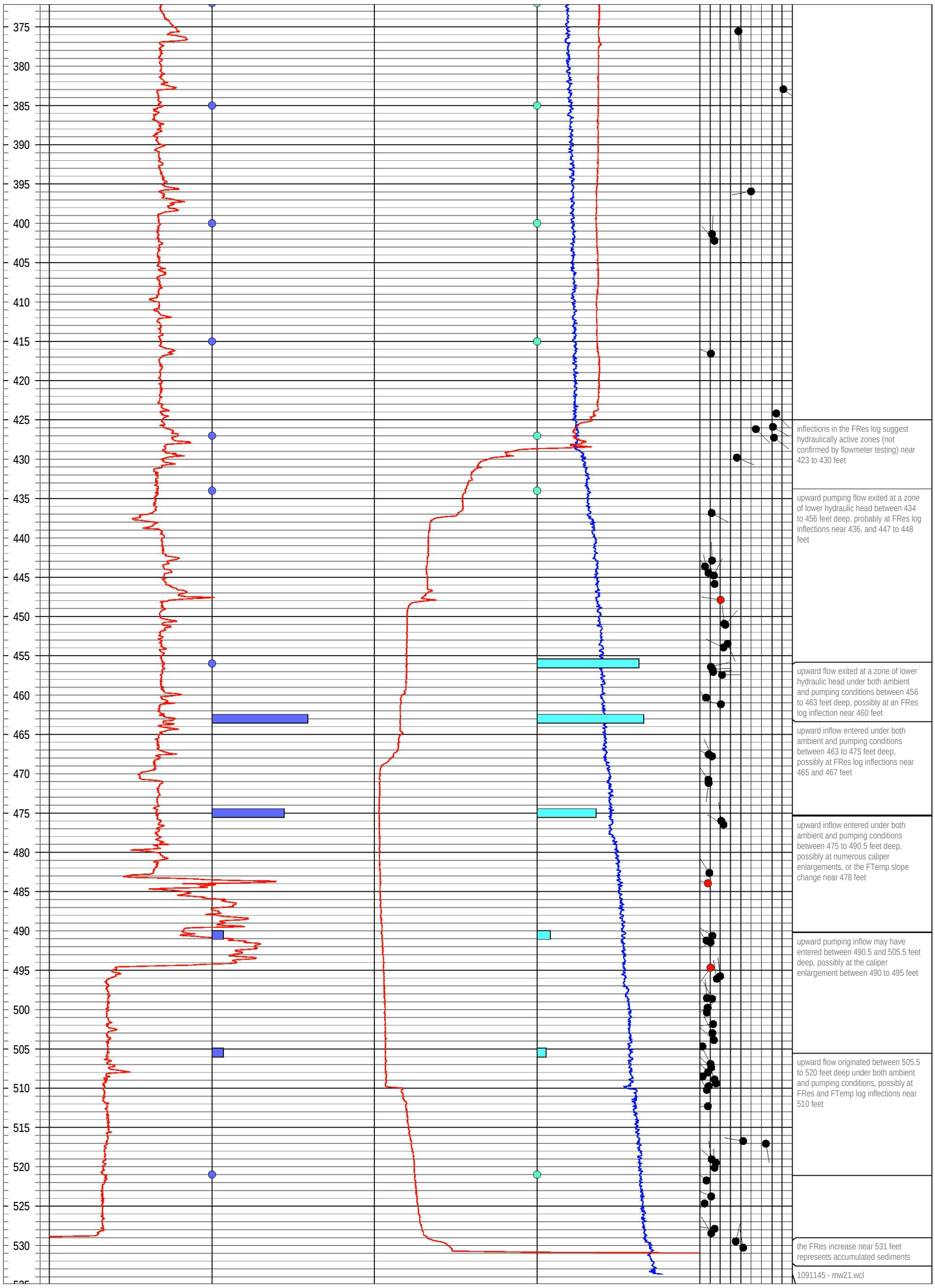


R2-0017224

Malcolm Pirnie/South Plainfield, NJ - MW-21 - conventional logs




either upward pumping flow exited at a zone of lower hydraulic head between 250 to 264 feet deep or many of the shallower pumping flow observations are erroneous due to either water bypassing the diverter petals at the rough borehole wall, or the flowmeter screens being clogged with debris
upward pumping inflow entered between 264 to 280 feet deep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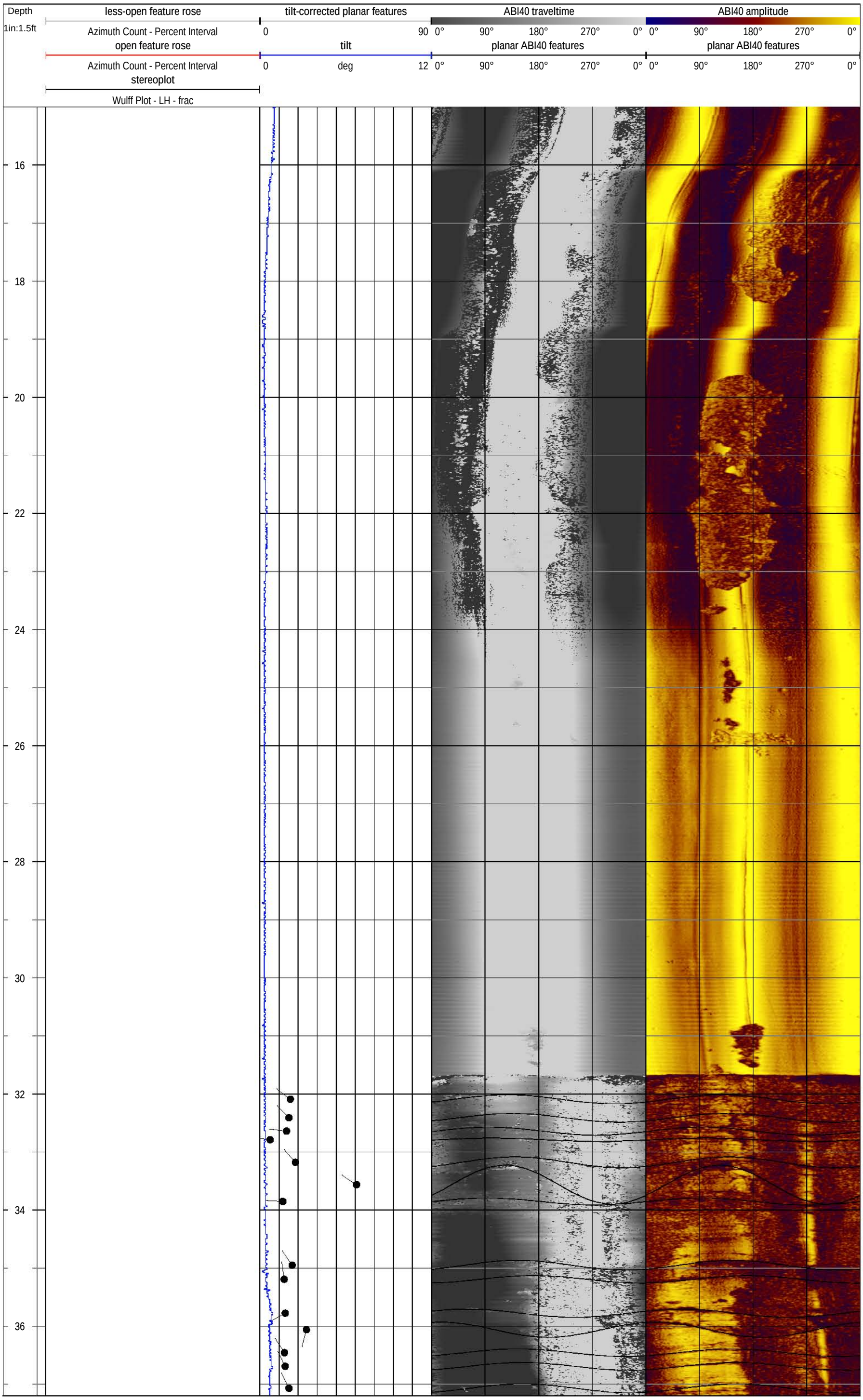
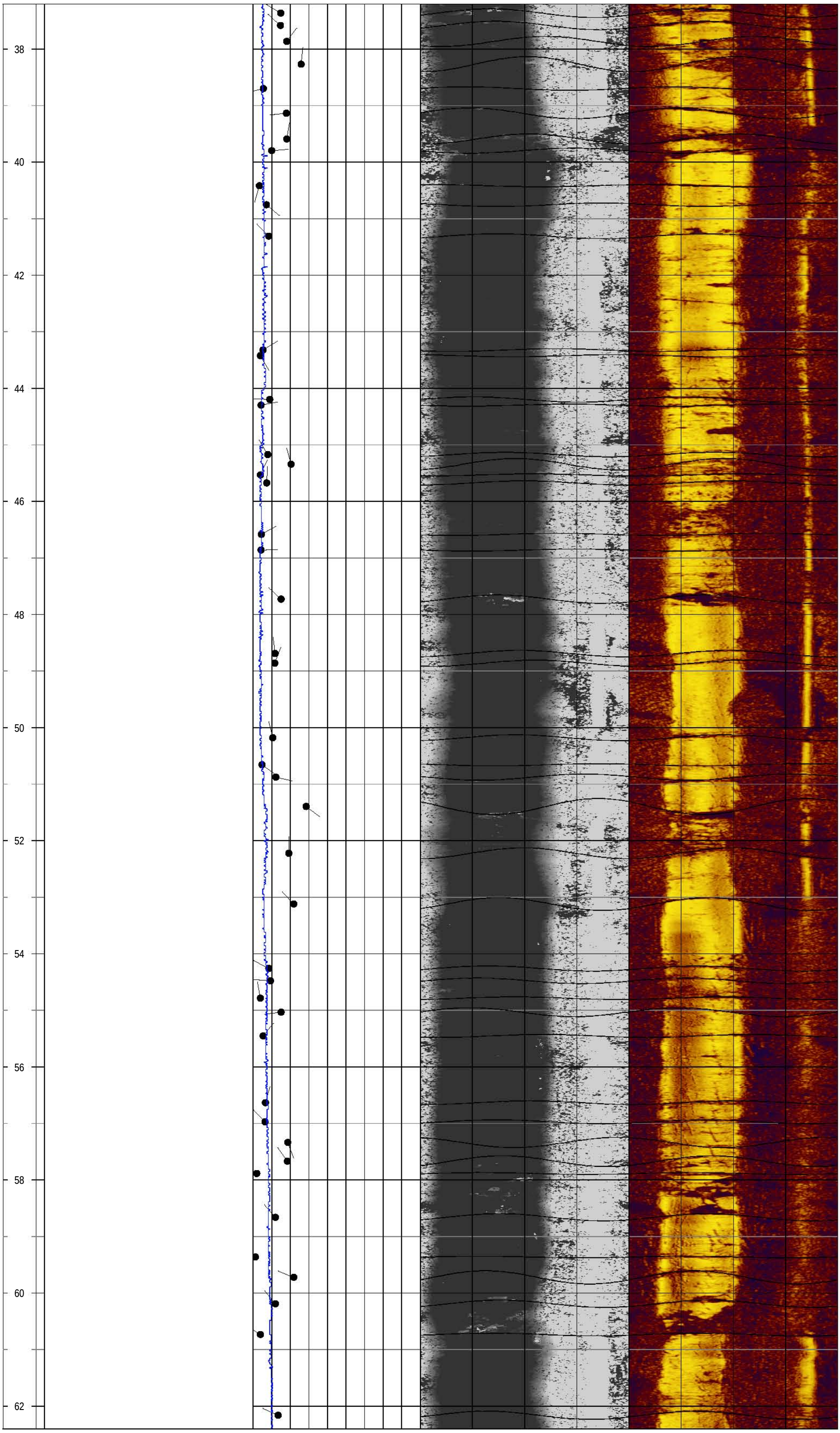
inflections in the FRes log suggest hydraulically active zones (not confirmed by flowmeter testing) near 423 to 430 feet
upward pumping flow exited at a zone of lower hydraulic head between 434 to 456 feet deep, probably at FRes log inflections near 436, and 447 to 448 feet
upward flow exited at a zone of lower hydraulic head under both ambient and pumping conditions between 456 to 463 feet deep, possibly at an FRes log inflection near 460 feet
upward inflow entered under both ambient and pumping conditions between 463 to 475 feet deep, possibly at FRes log inflections near 465 and 467 feet
upward inflow entered under both ambient and pumping conditions between 475 to 490.5 feet deep, possibly at numerous caliper enlargements, or the FTemp slope change near 478 feet
upward pumping inflow may have entered between 490.5 and 505.5 feet deep, possibly at the caliper enlargement between 490 to 495 feet
upward flow originated between 505.5 to 520 feet deep under both ambient and pumping conditions, possibly at FRes and FTemp log inflections near 510 feet
the FRes increase near 531 feet represents accumulated sediments
1091145 - mw21.wcl

Malcolm Pirnie/South Plainfield, NJ - MW-21 - acoustic televiewer log



R2-0017228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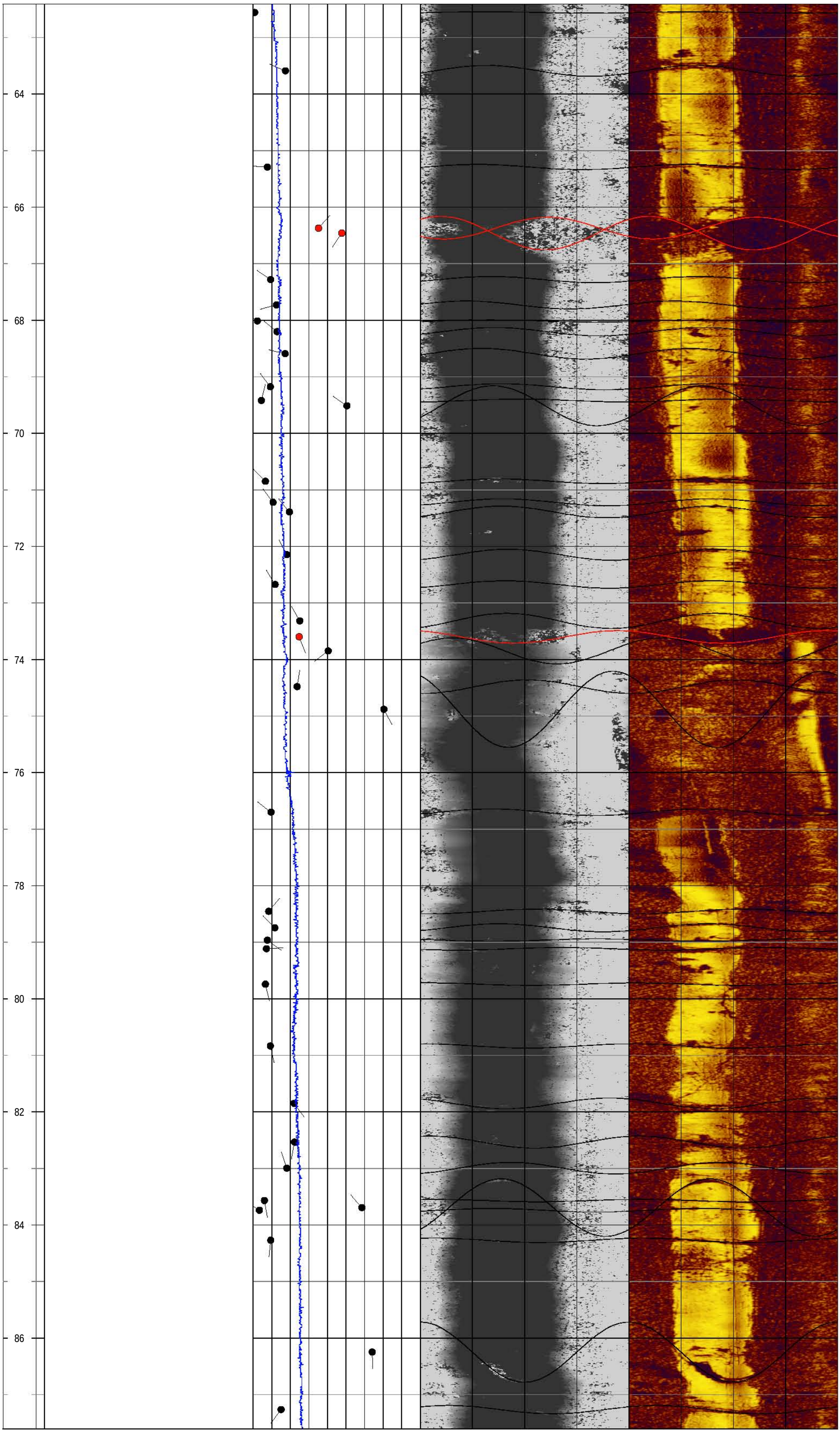
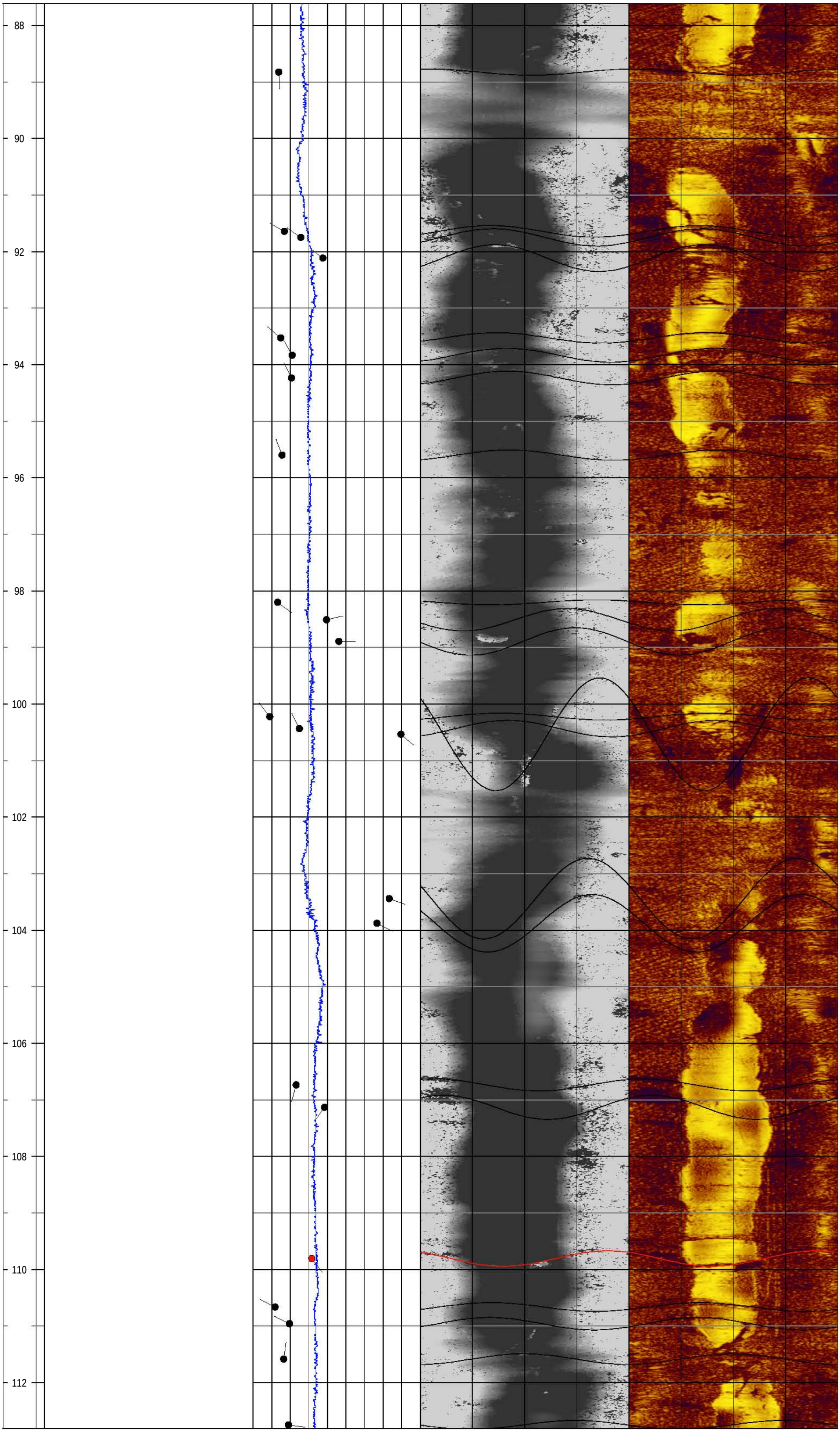


R2-0017230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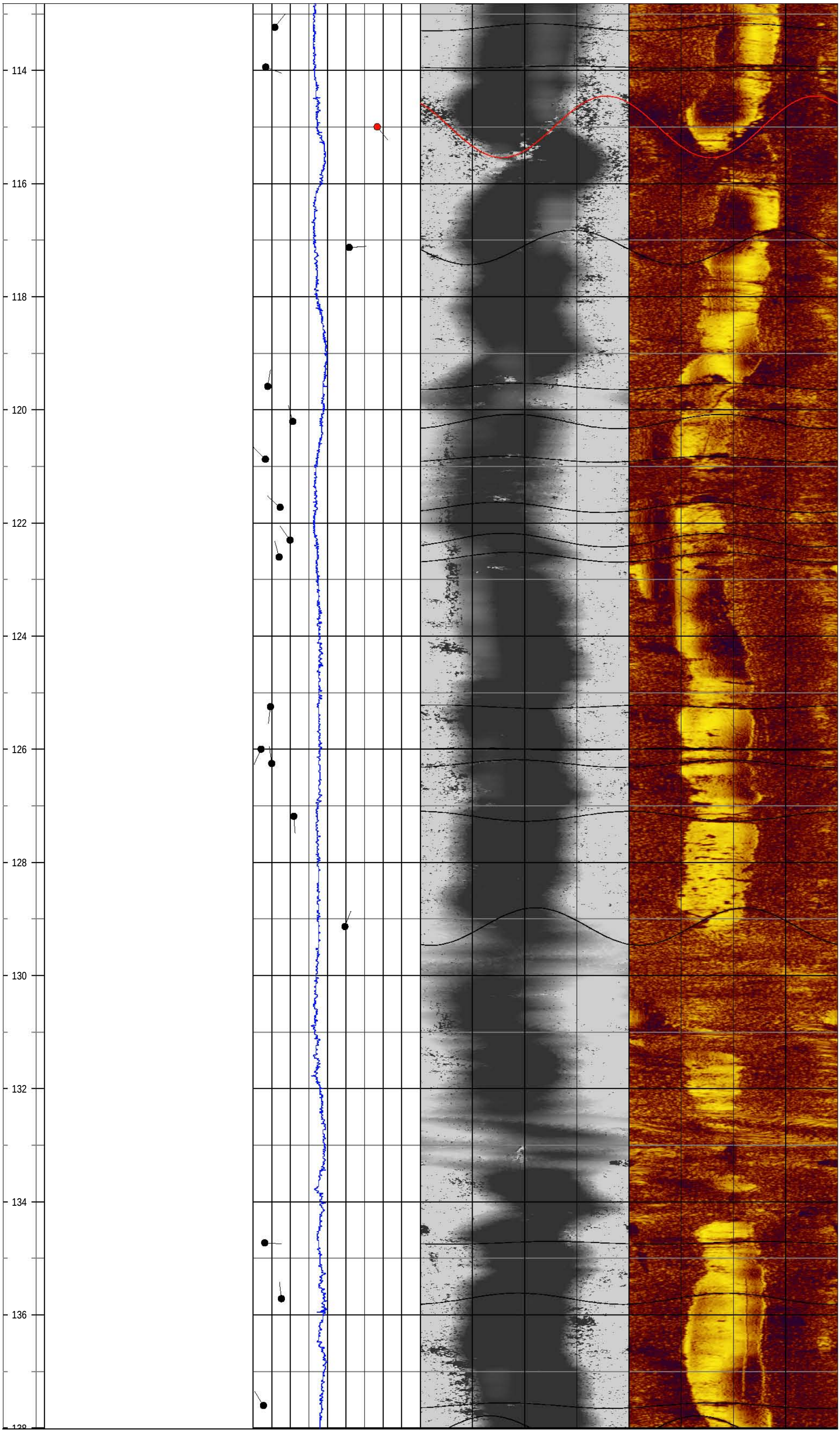
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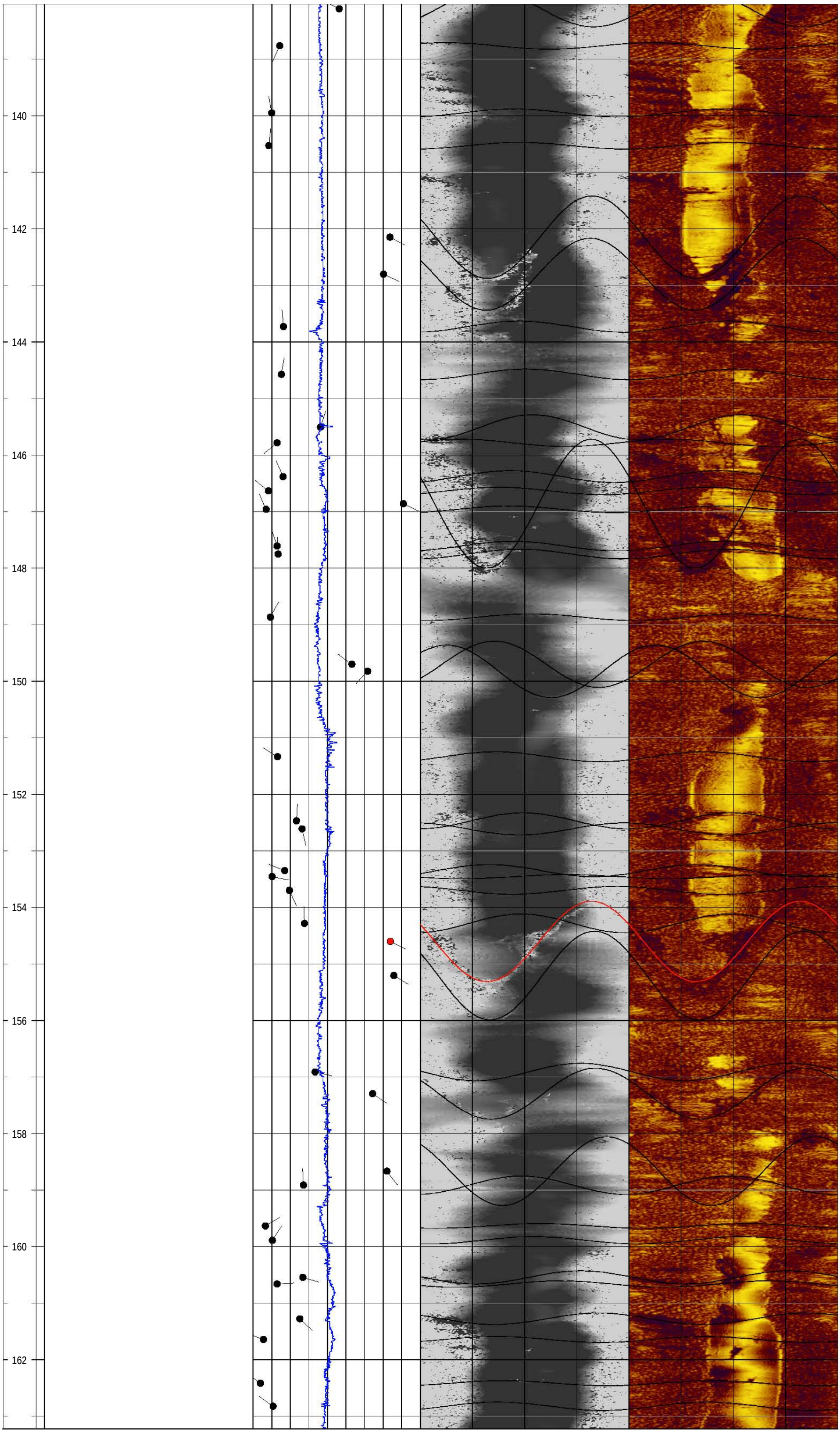
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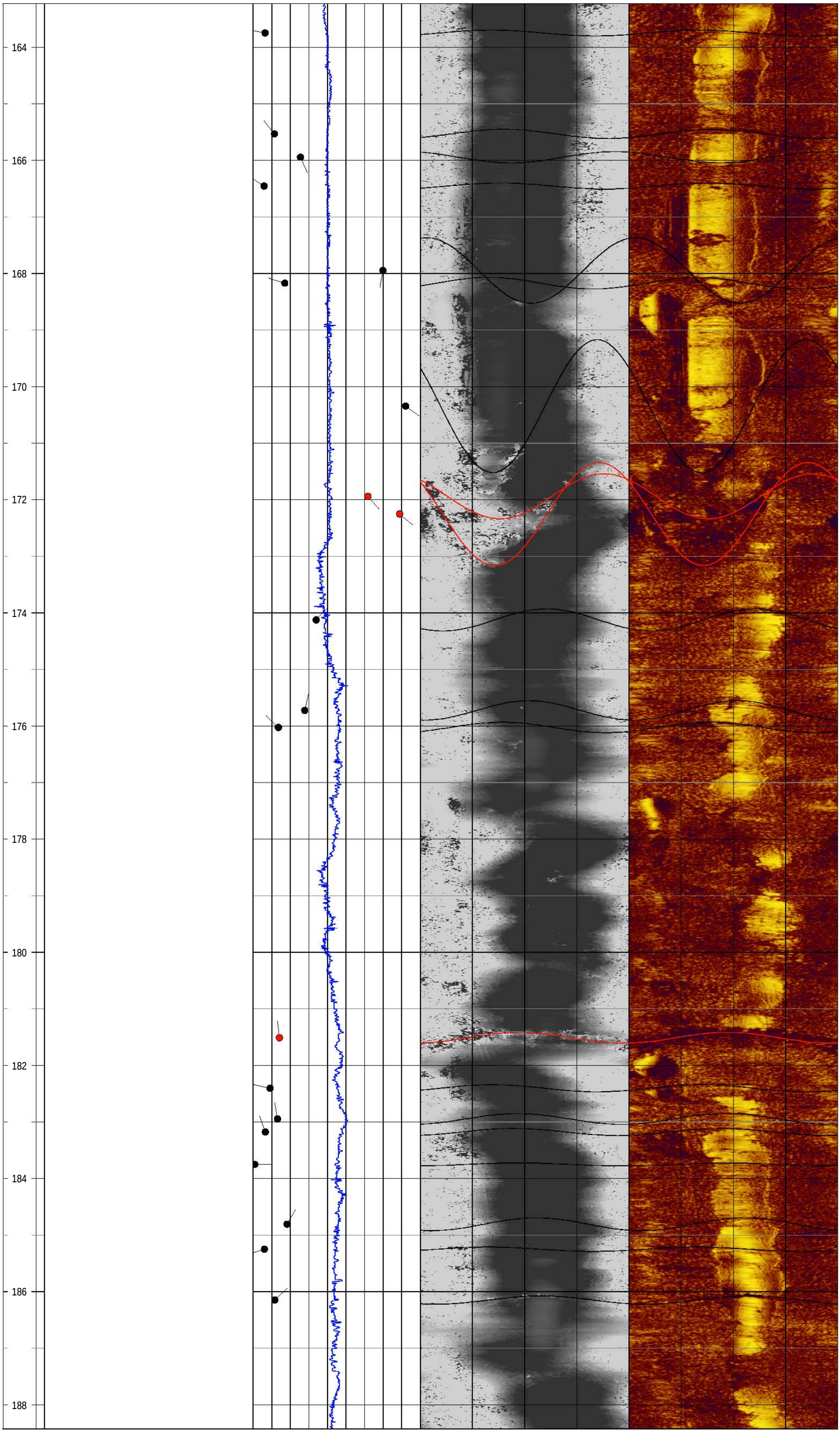
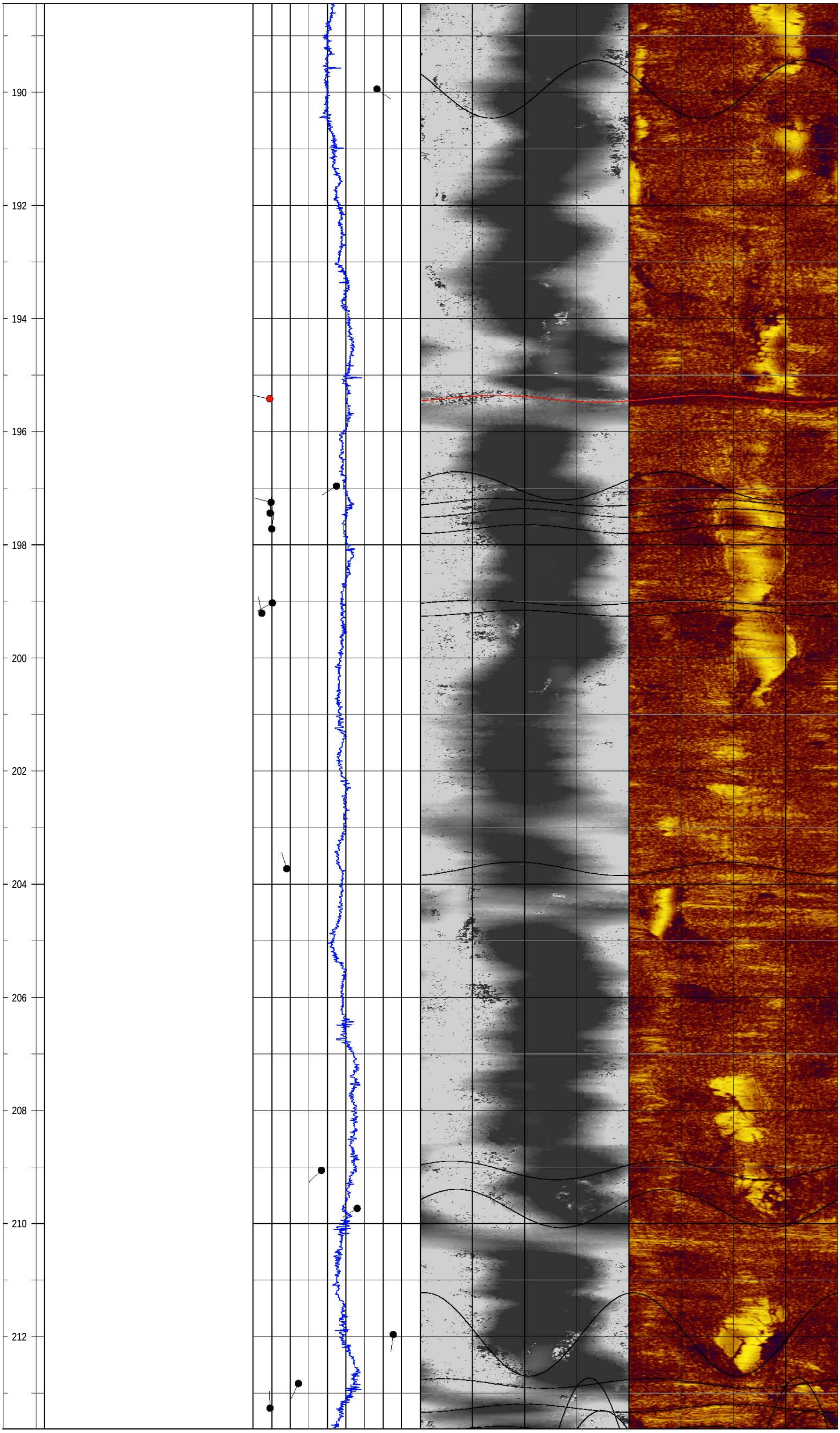


R2-0017234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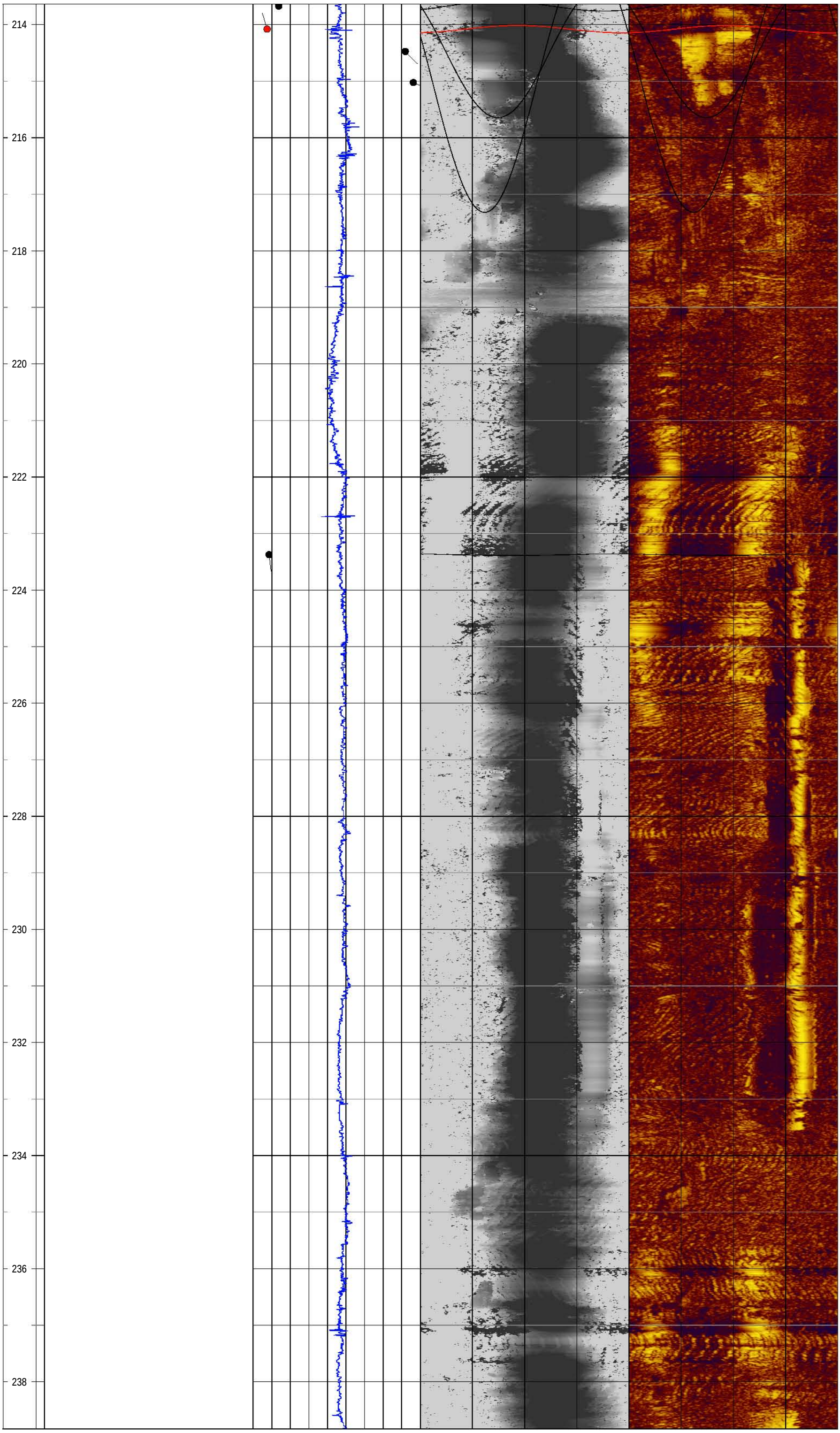
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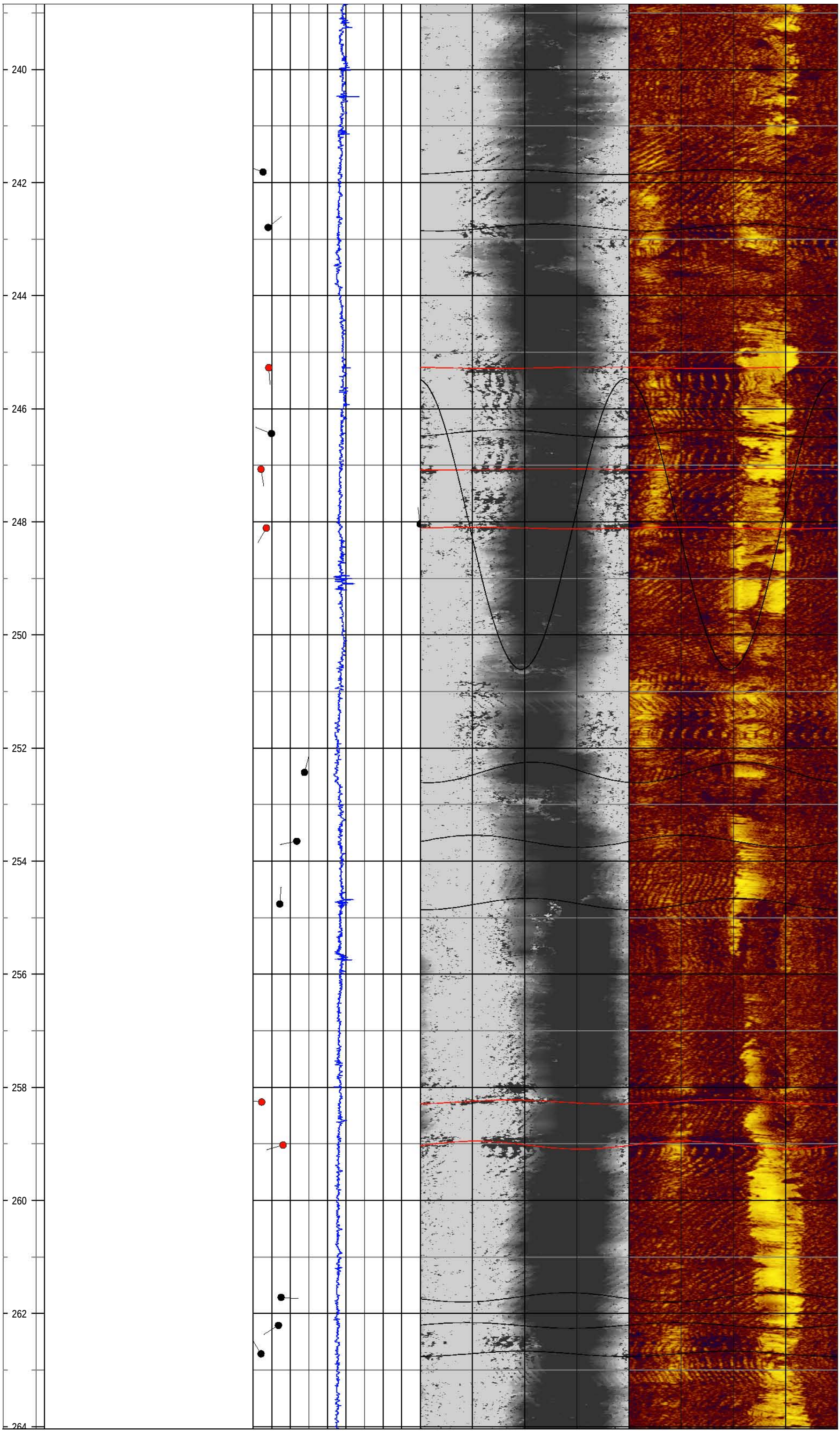
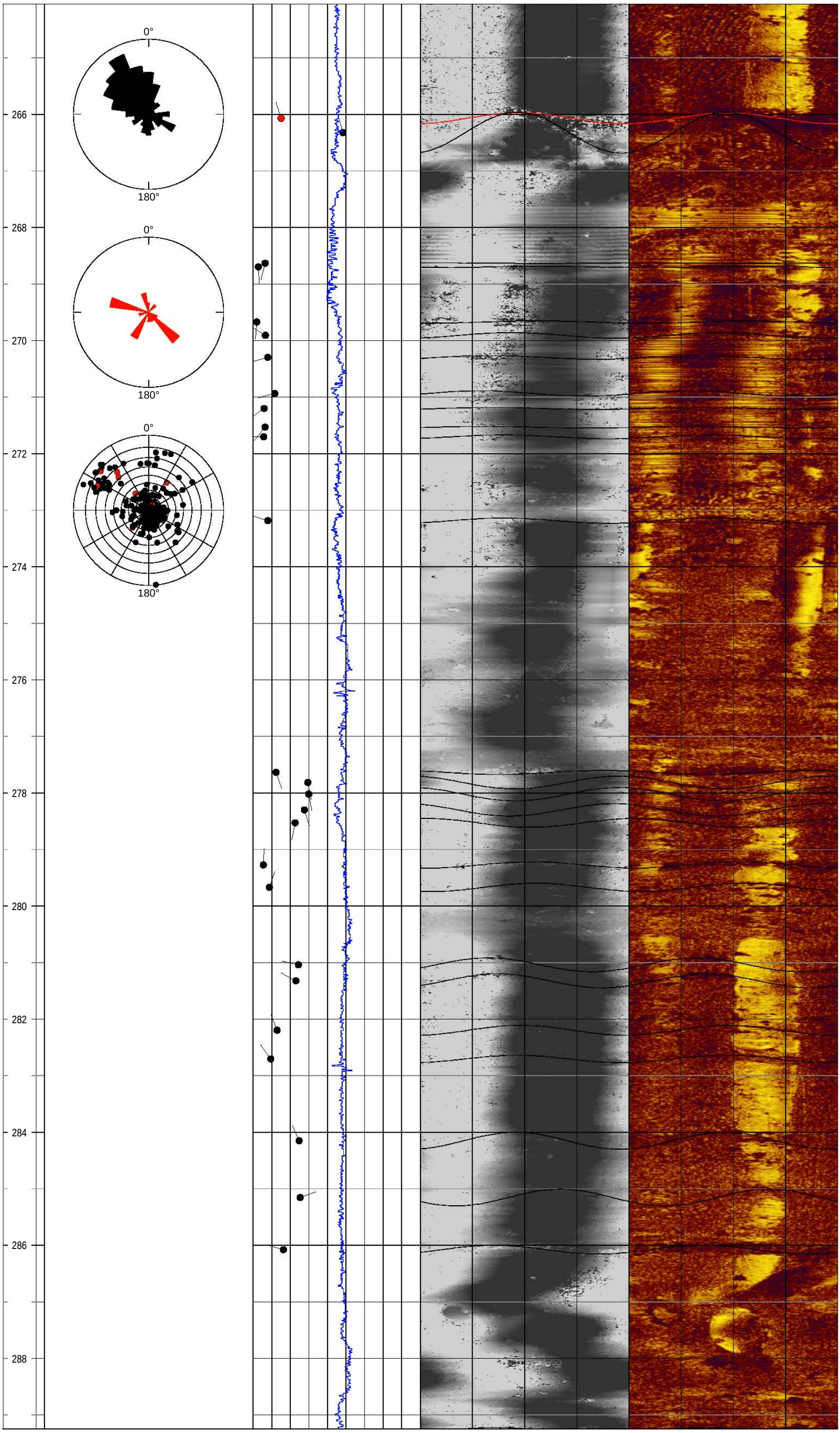
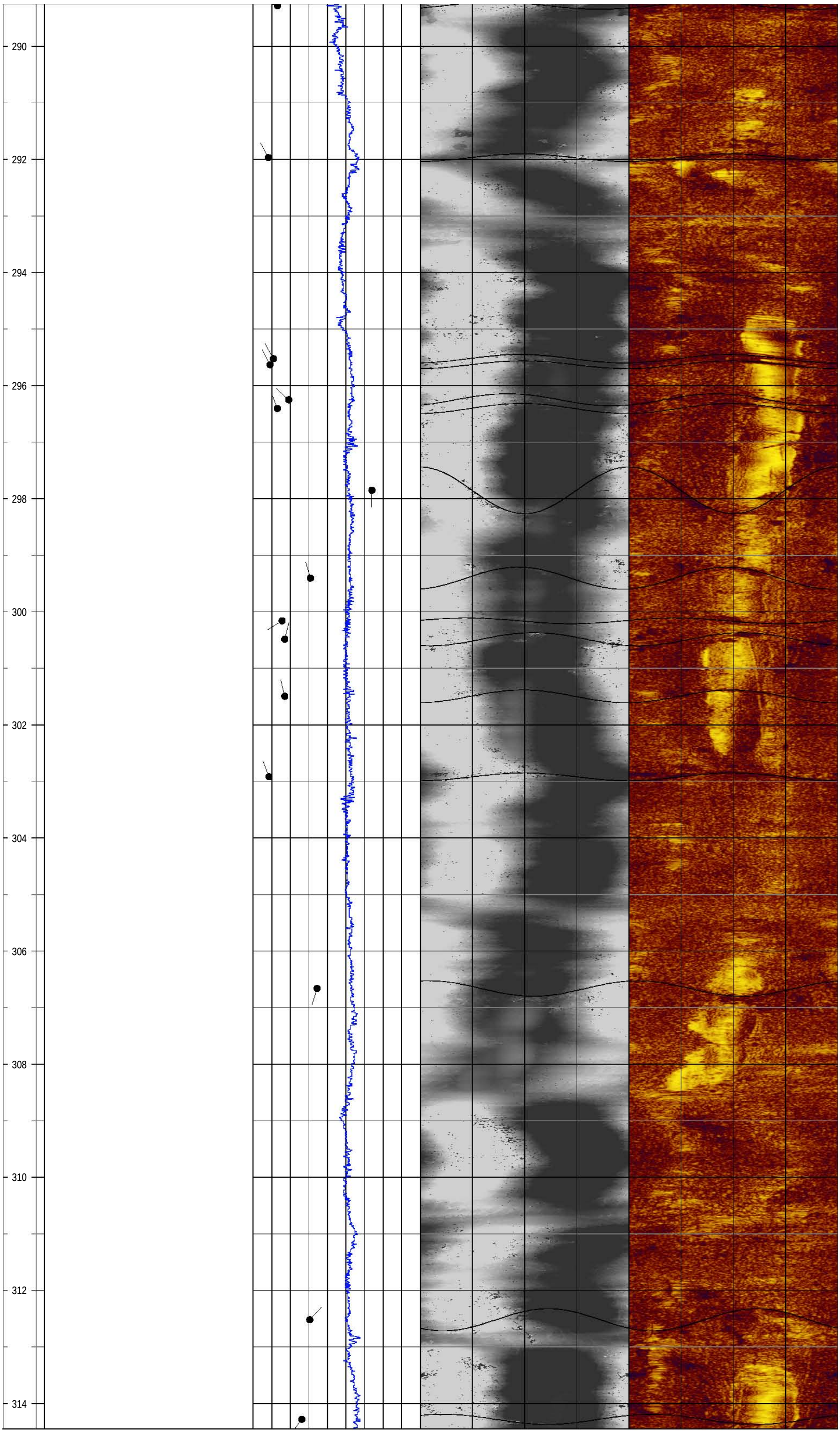


R2-0017237



R2-0017238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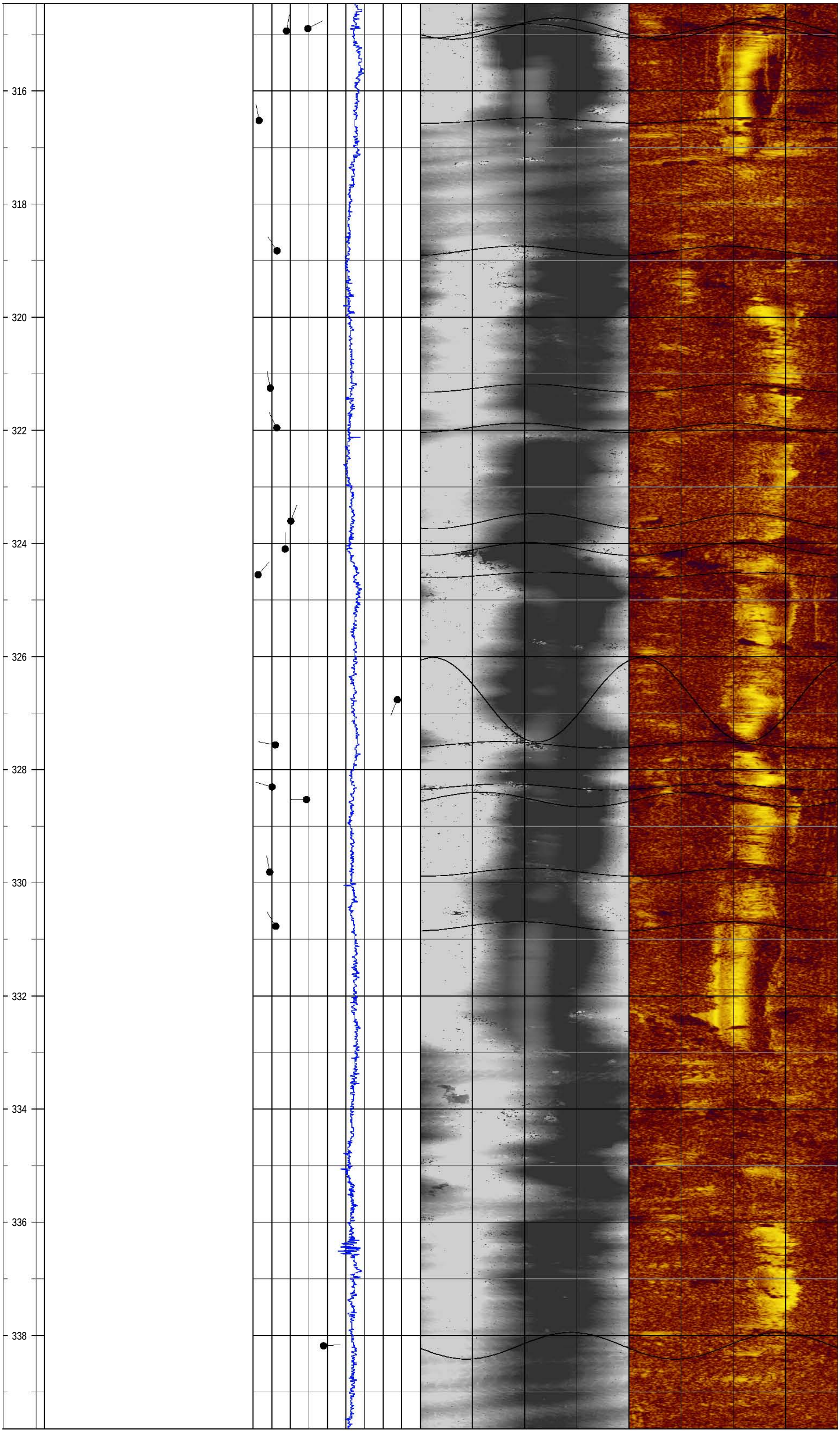

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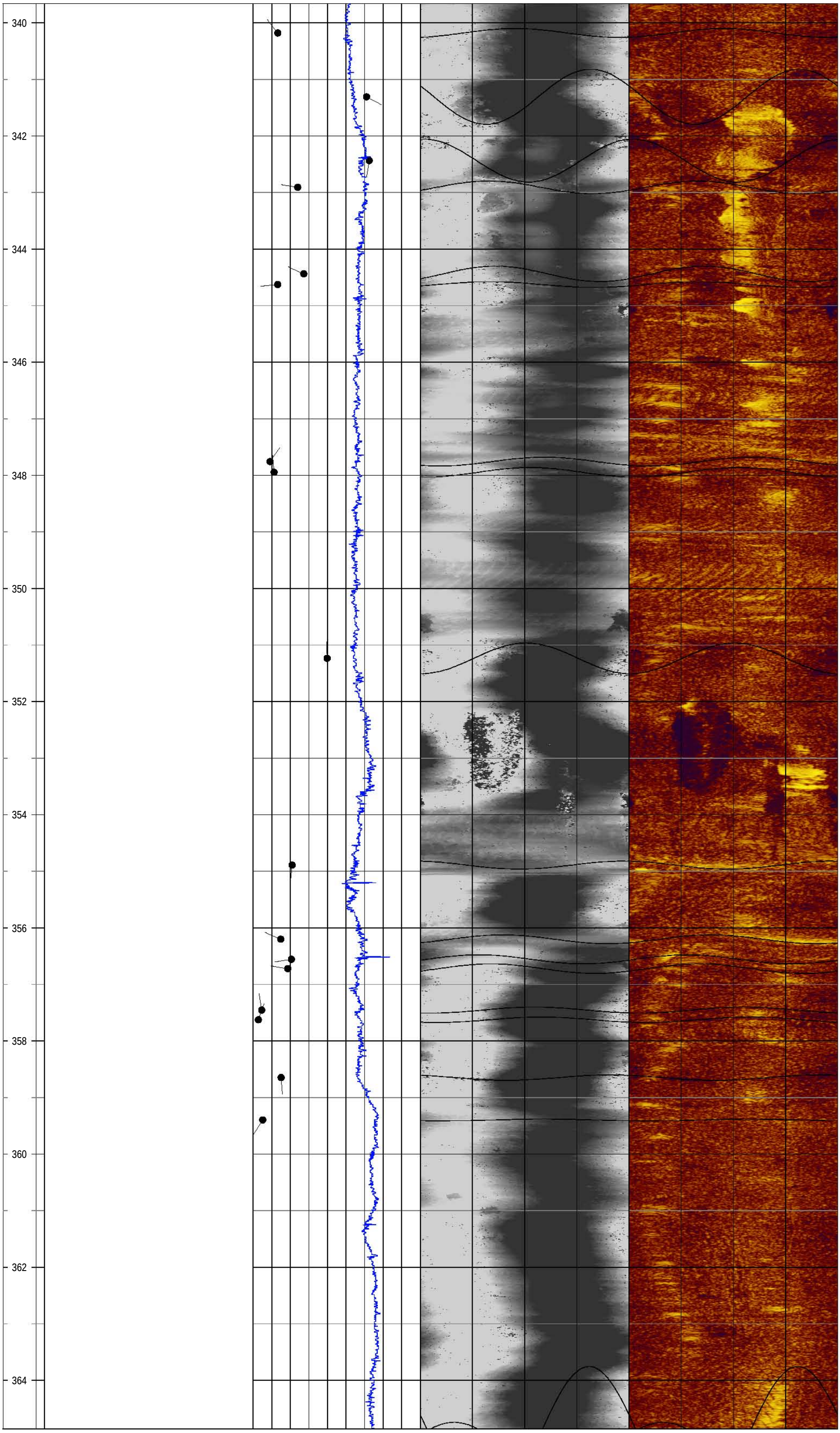
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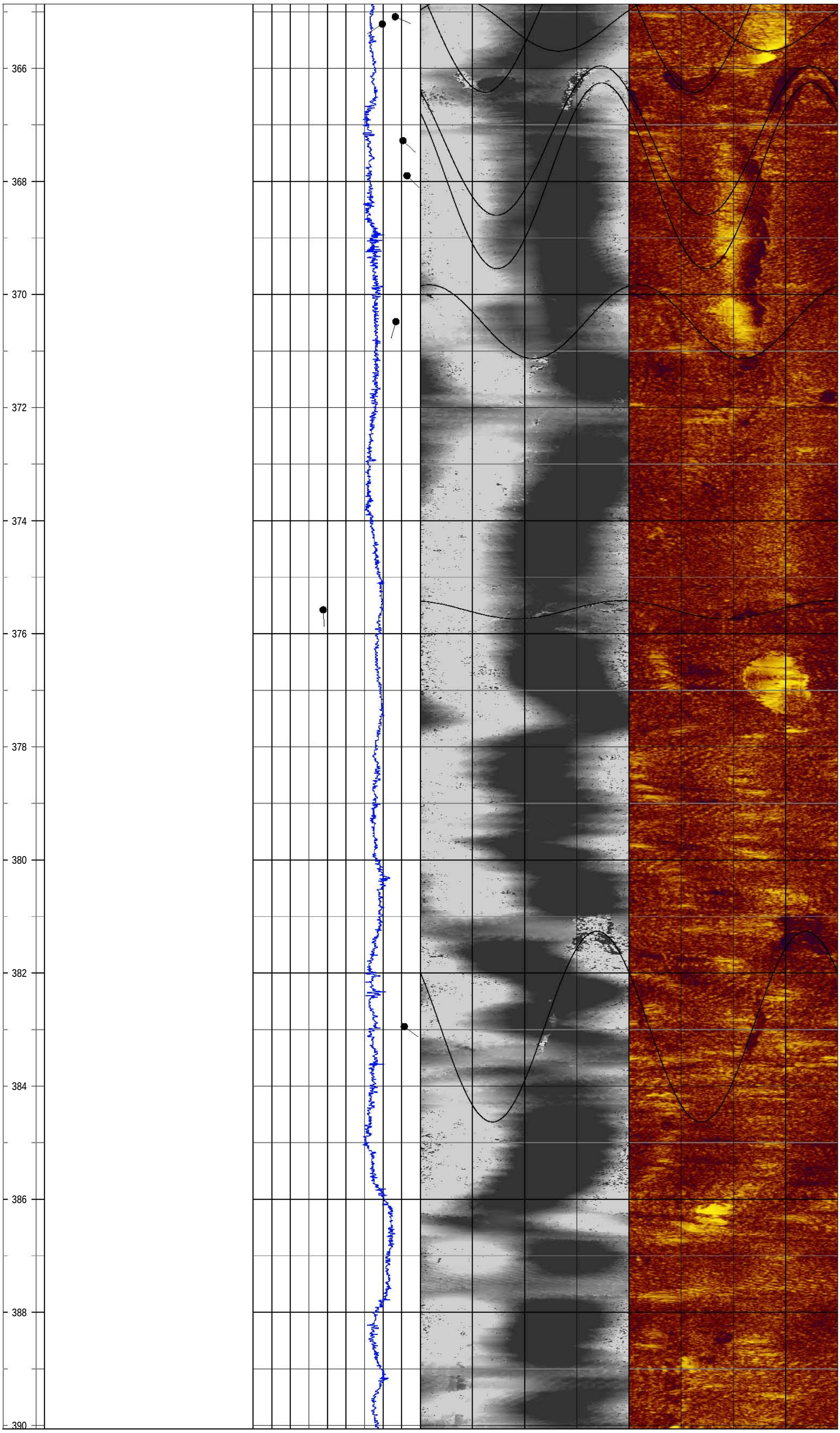

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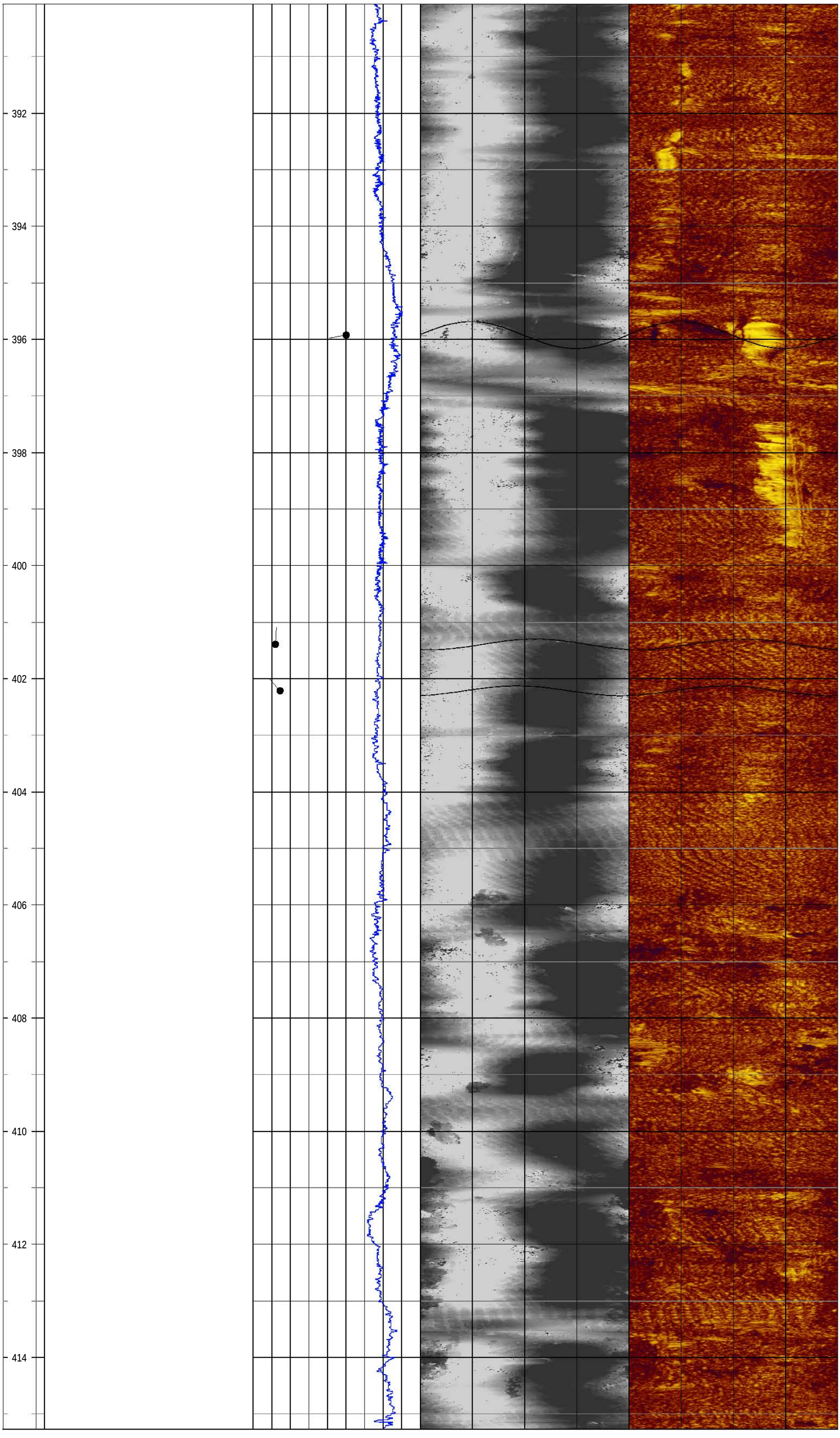
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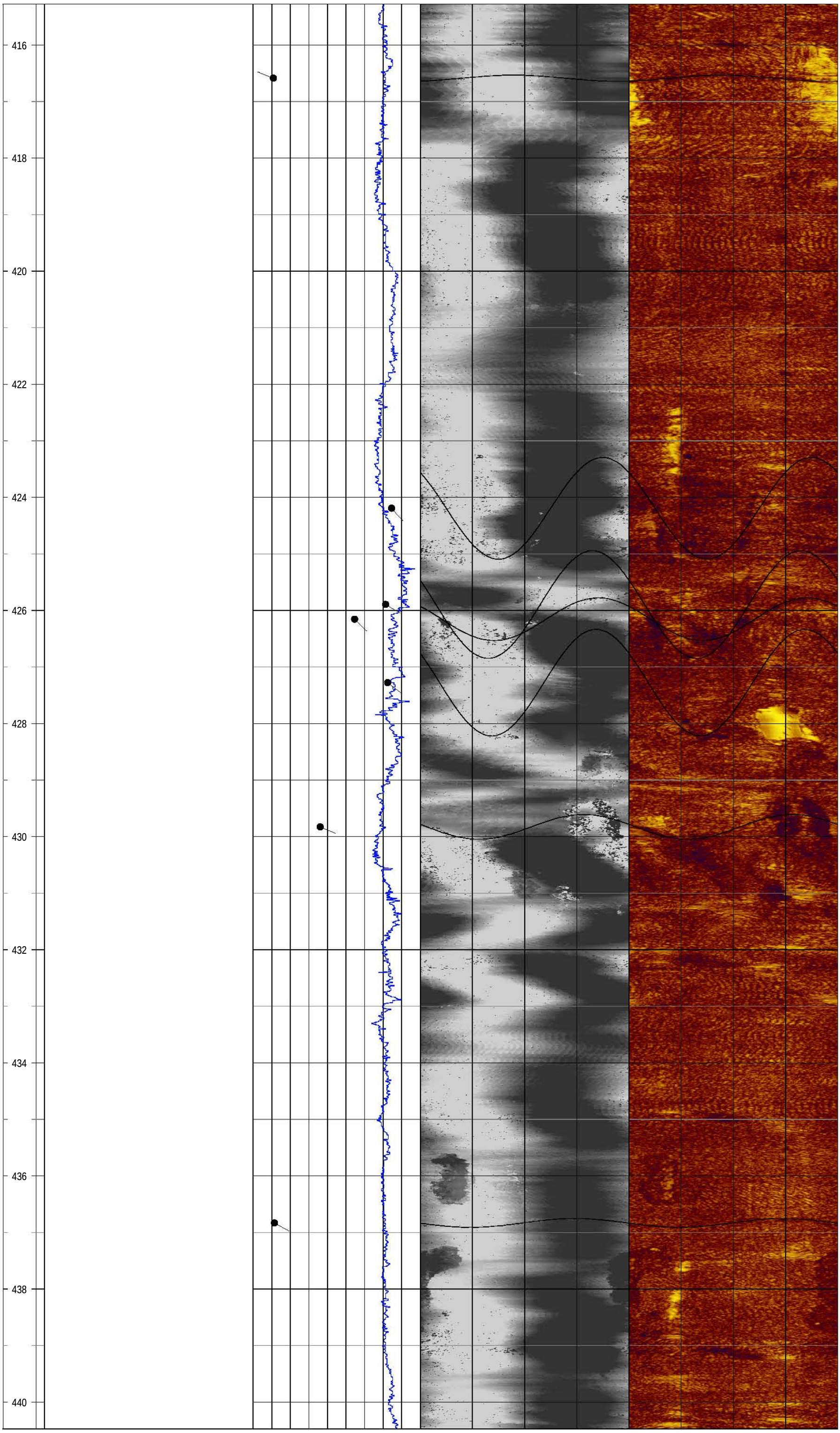

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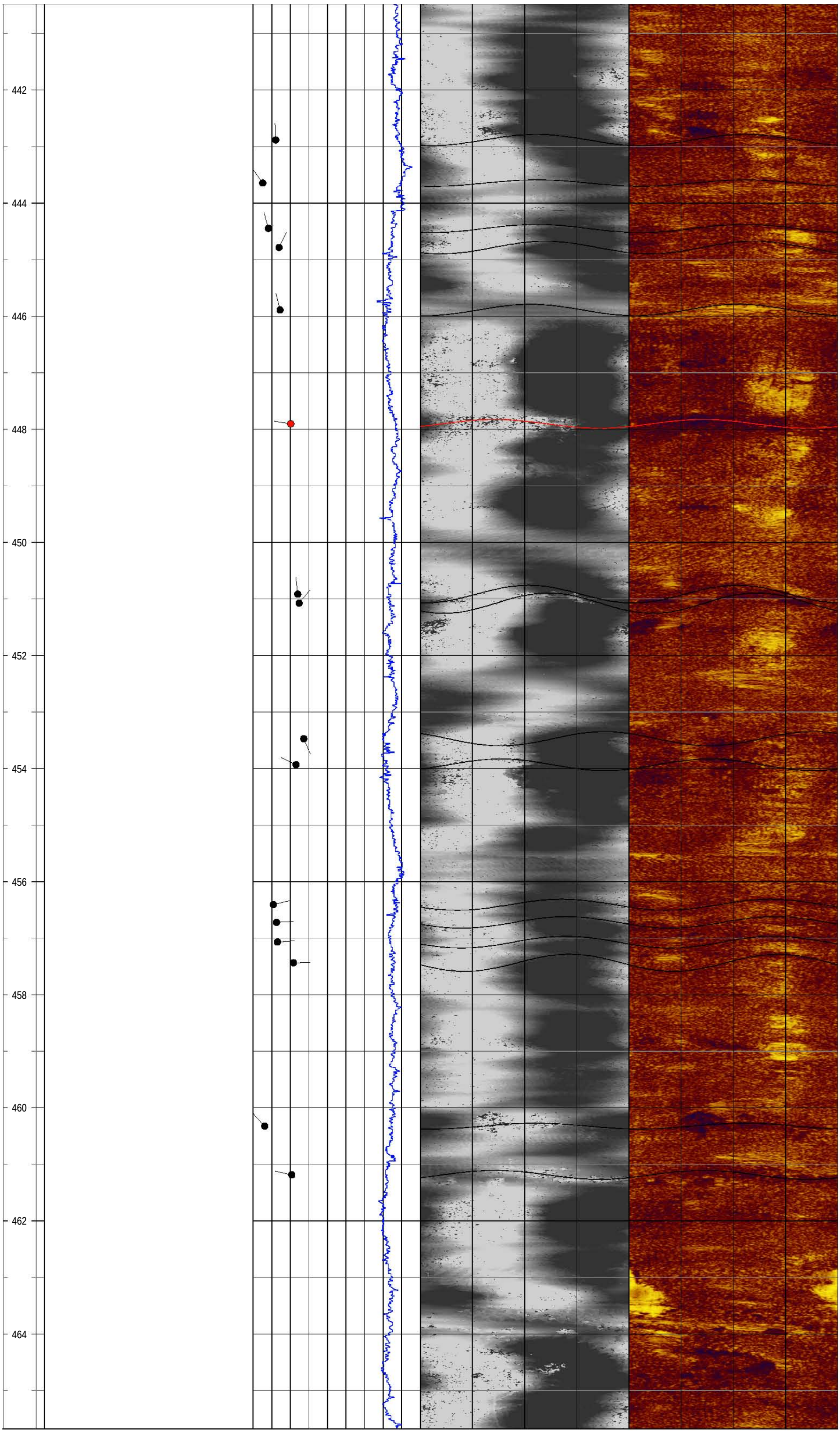
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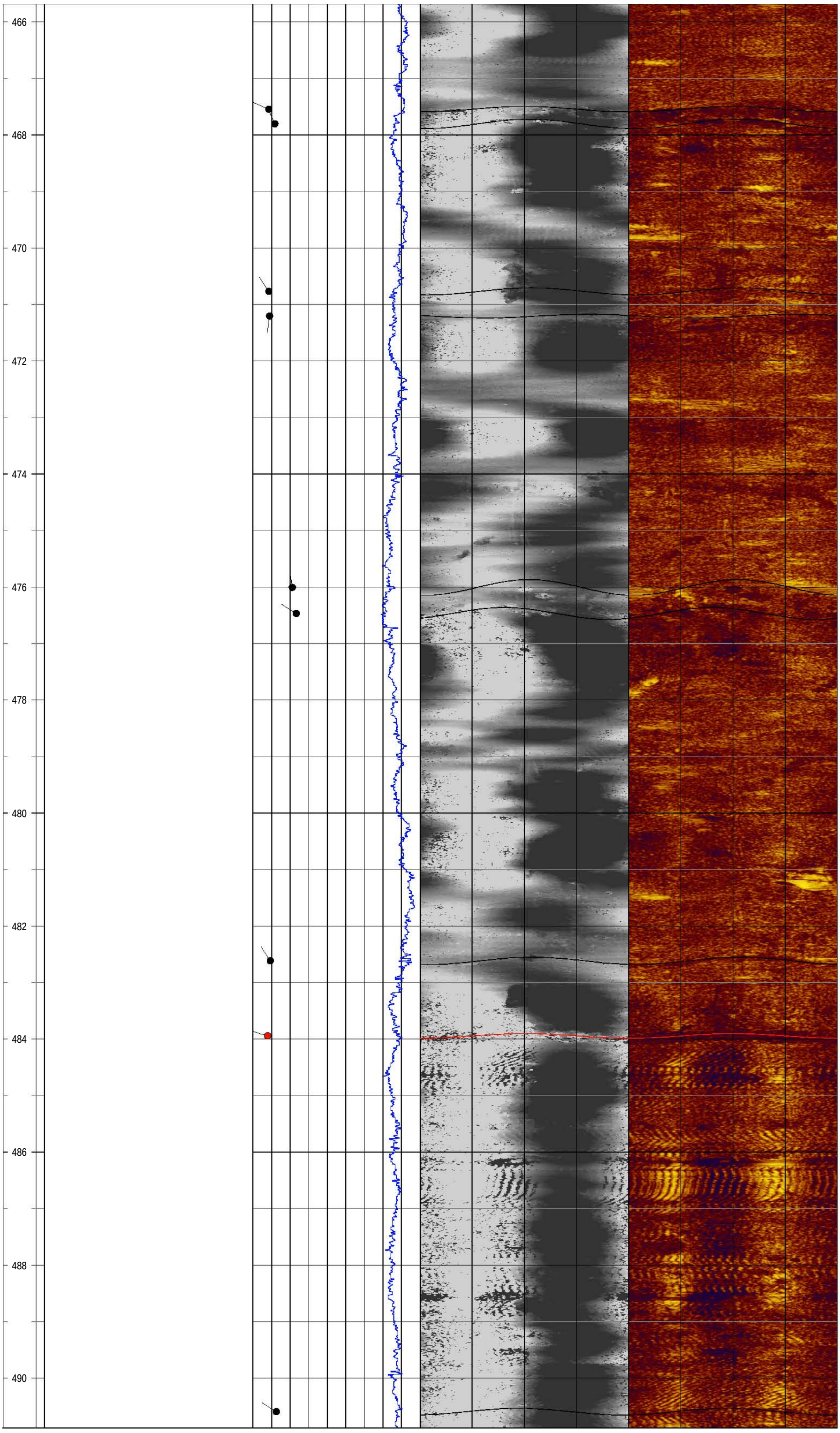
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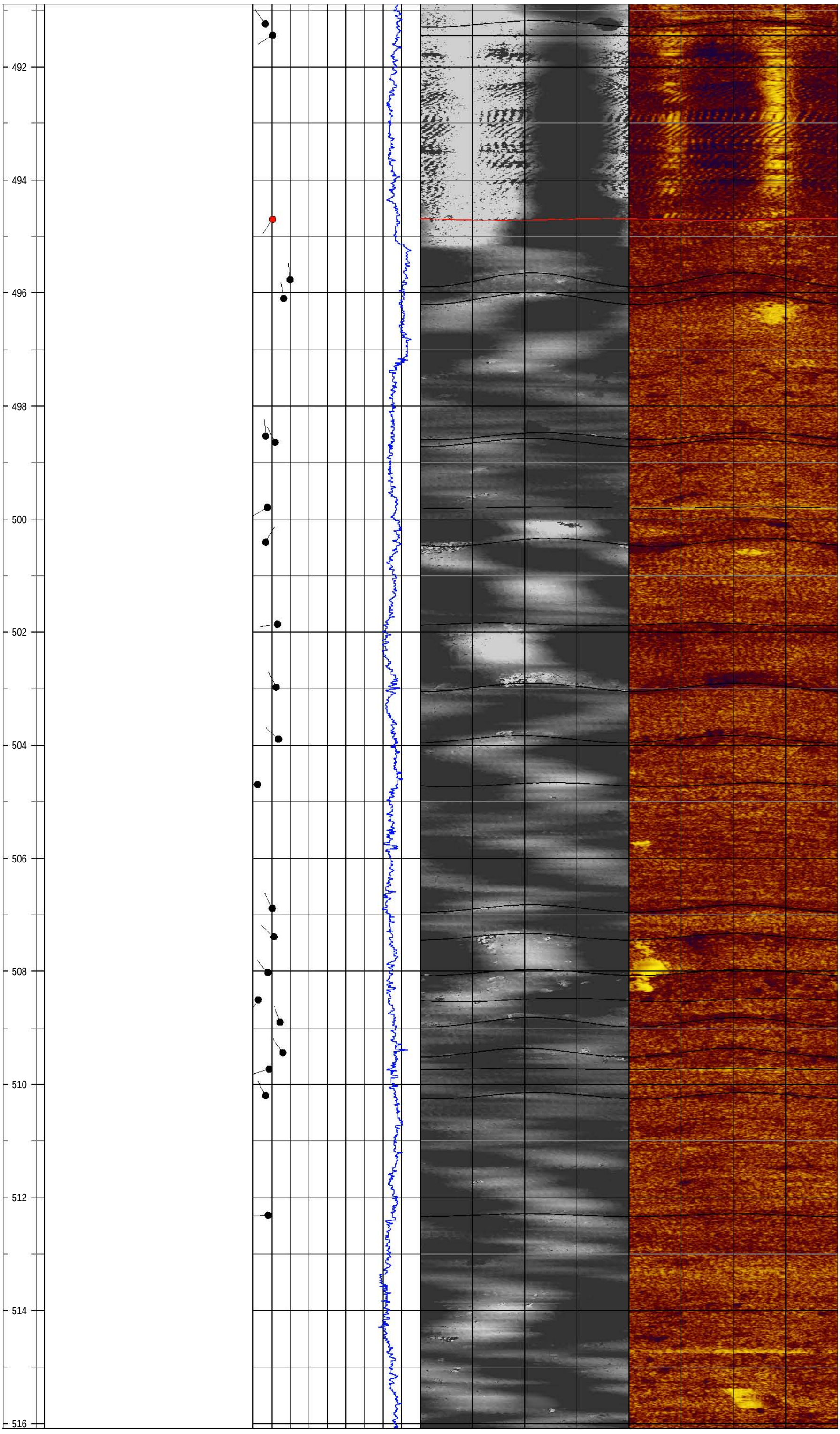
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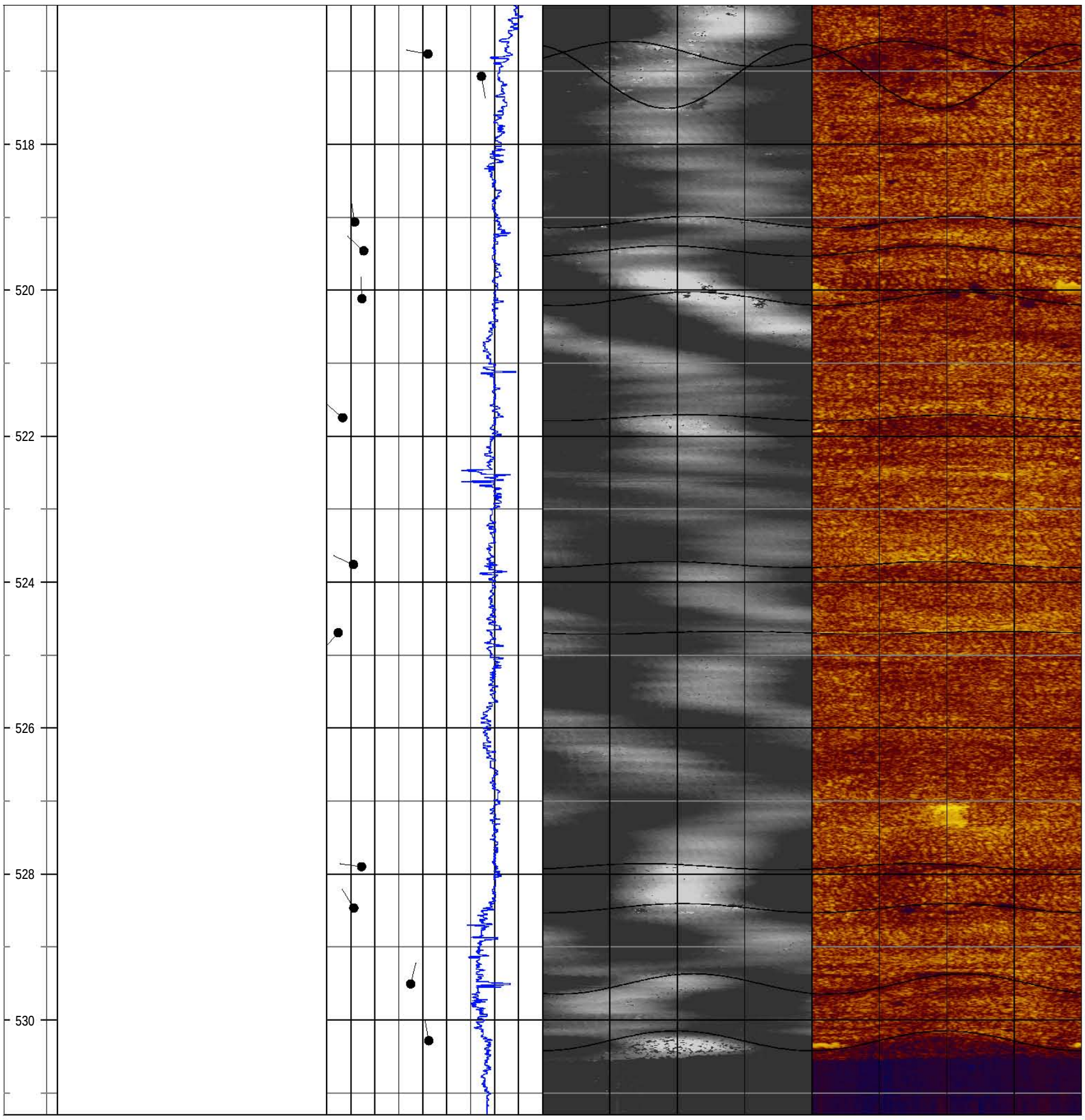
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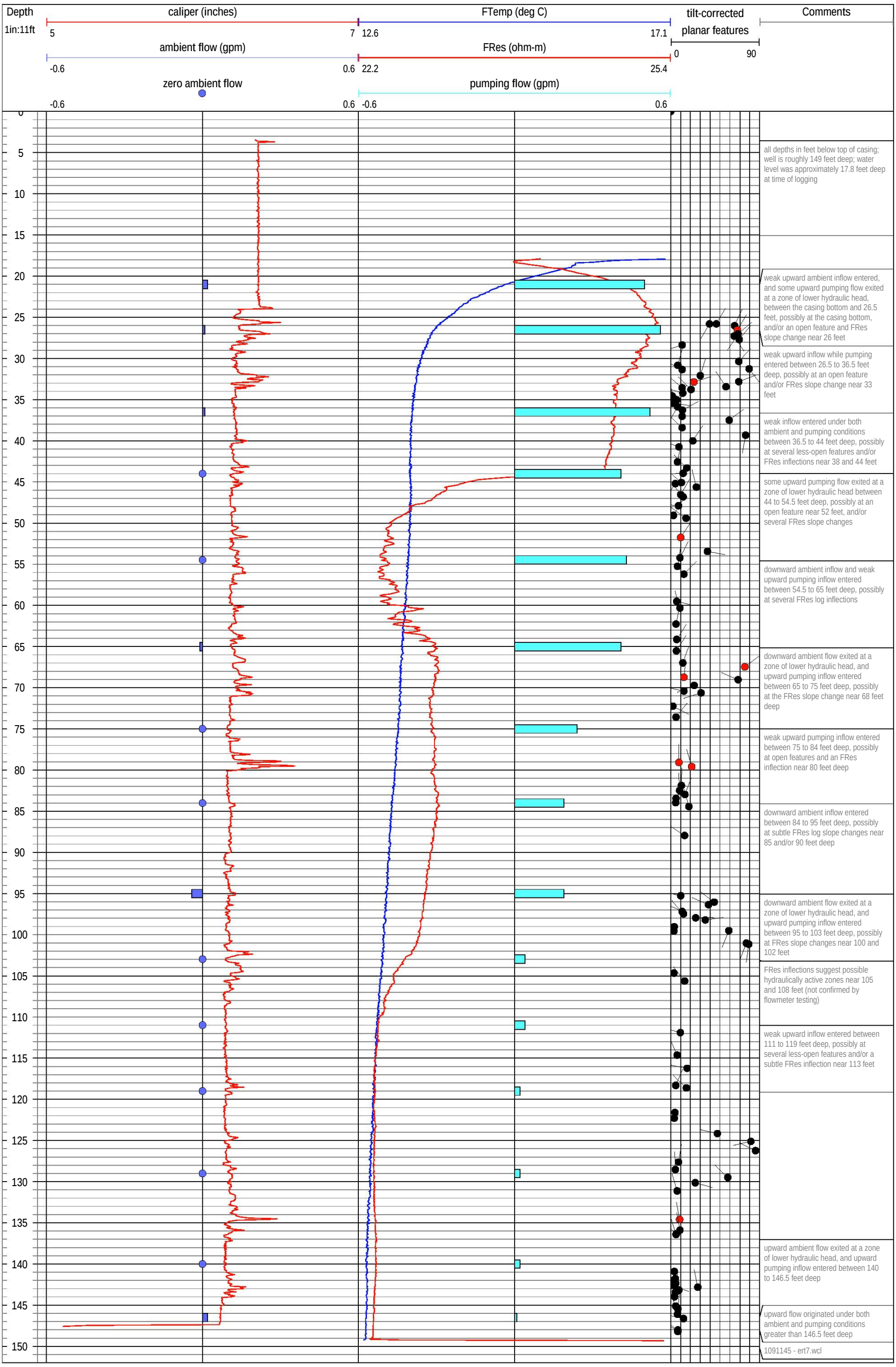
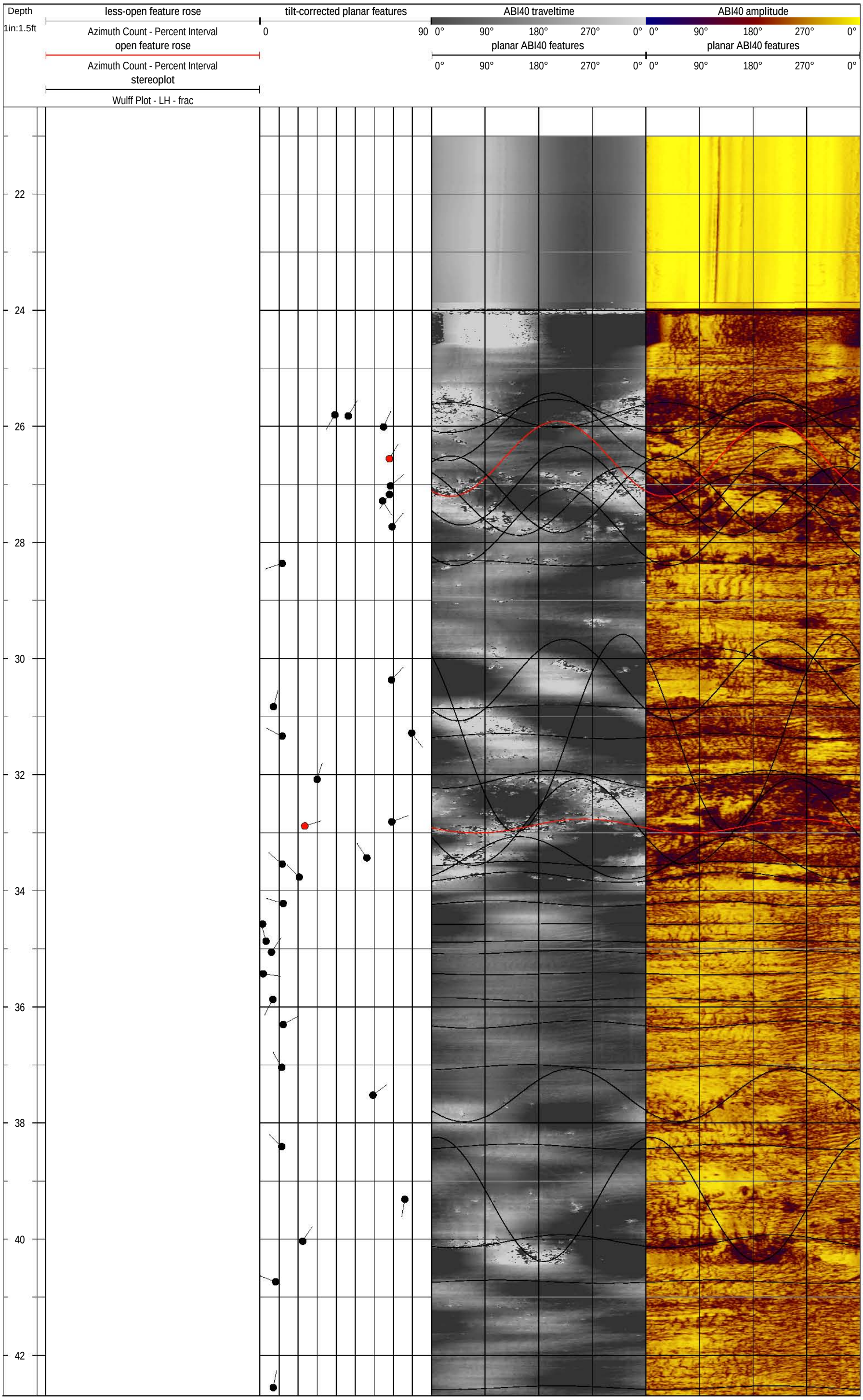
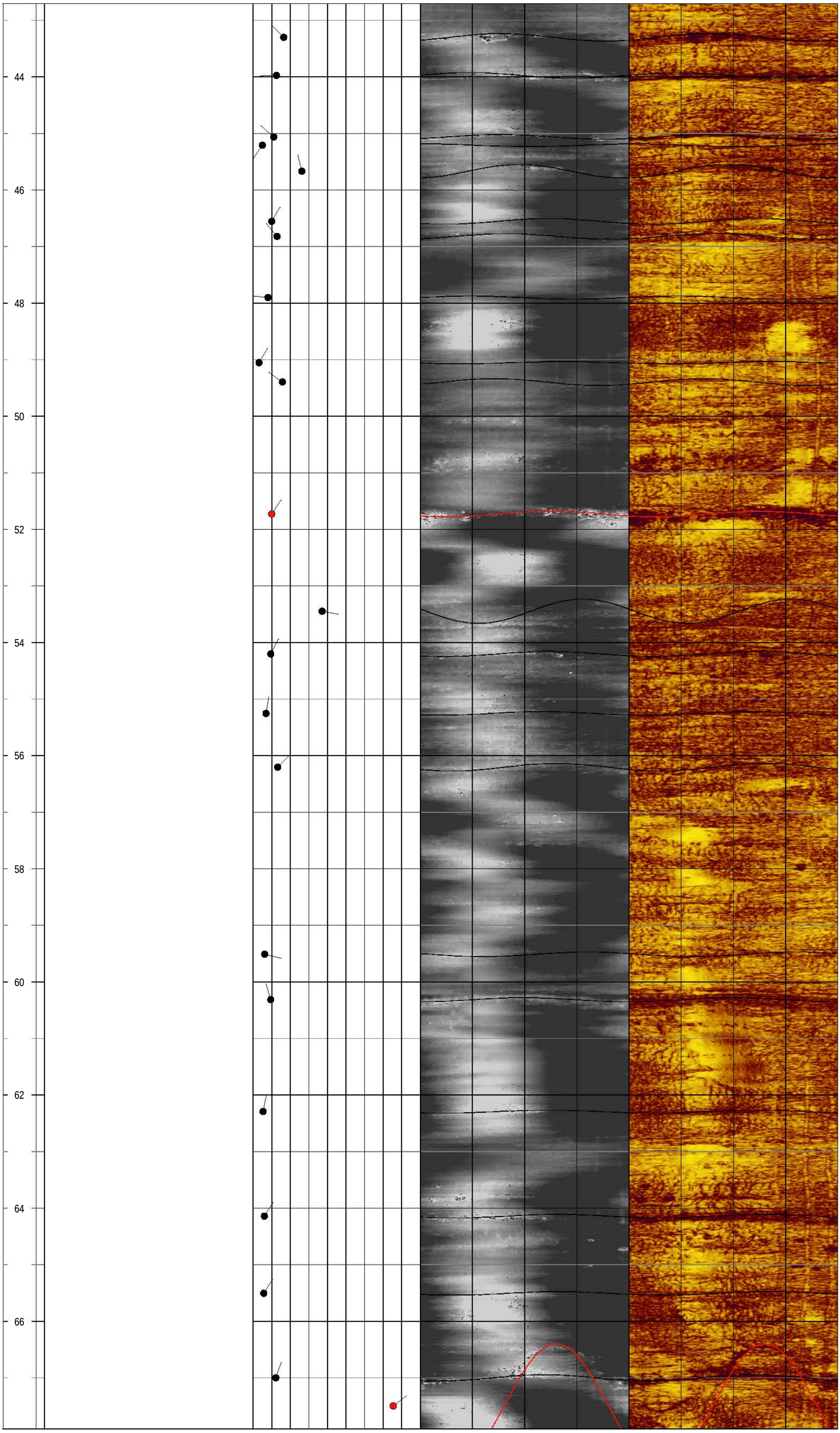
Malcolm Pirnie/South Plainfield, NJ - ERT-7 - conventional logs



Malcolm Pirnie/South Plainfield, NJ - ERT-7 - acoustic televiewer log



R2-0017250



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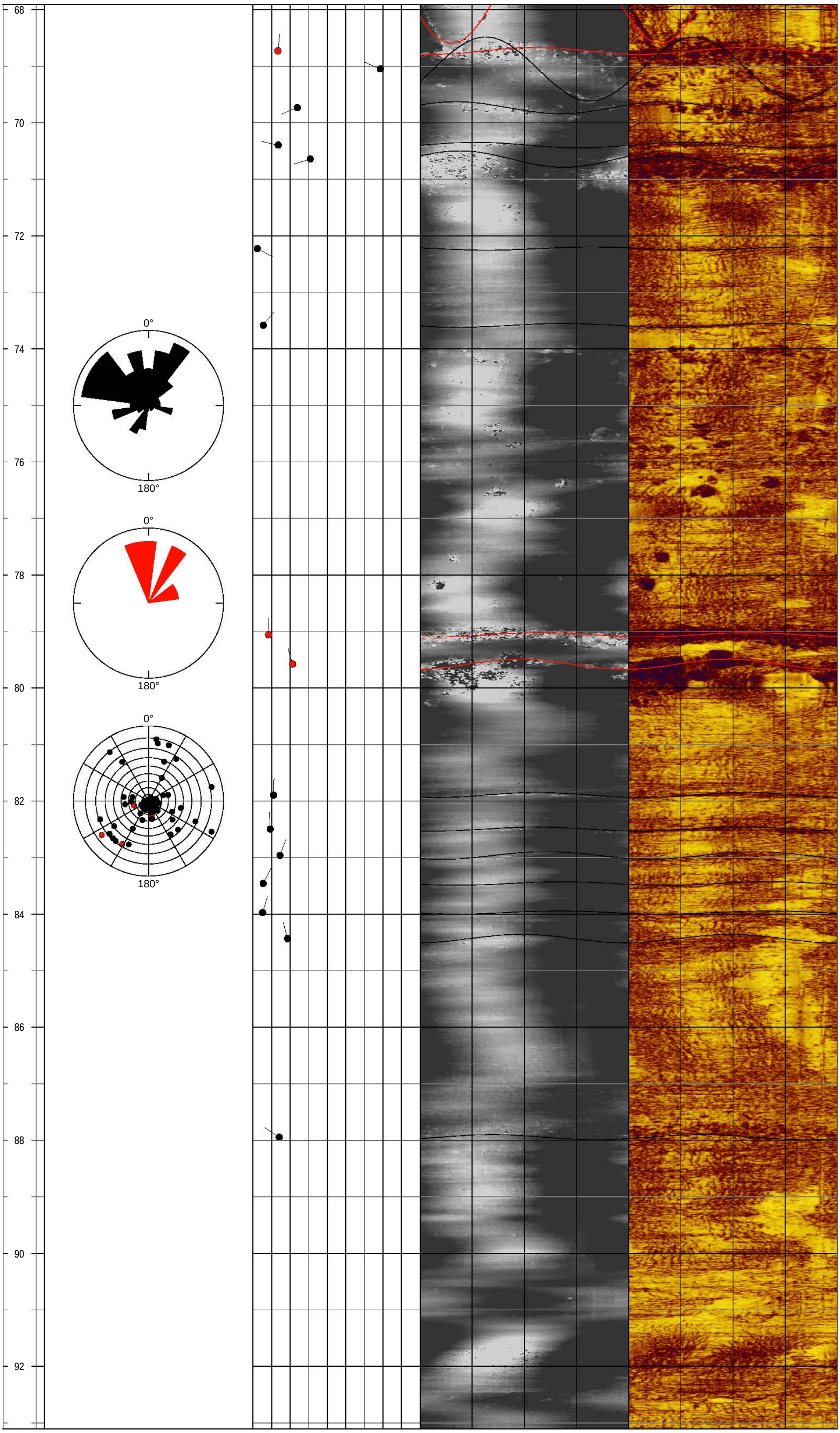
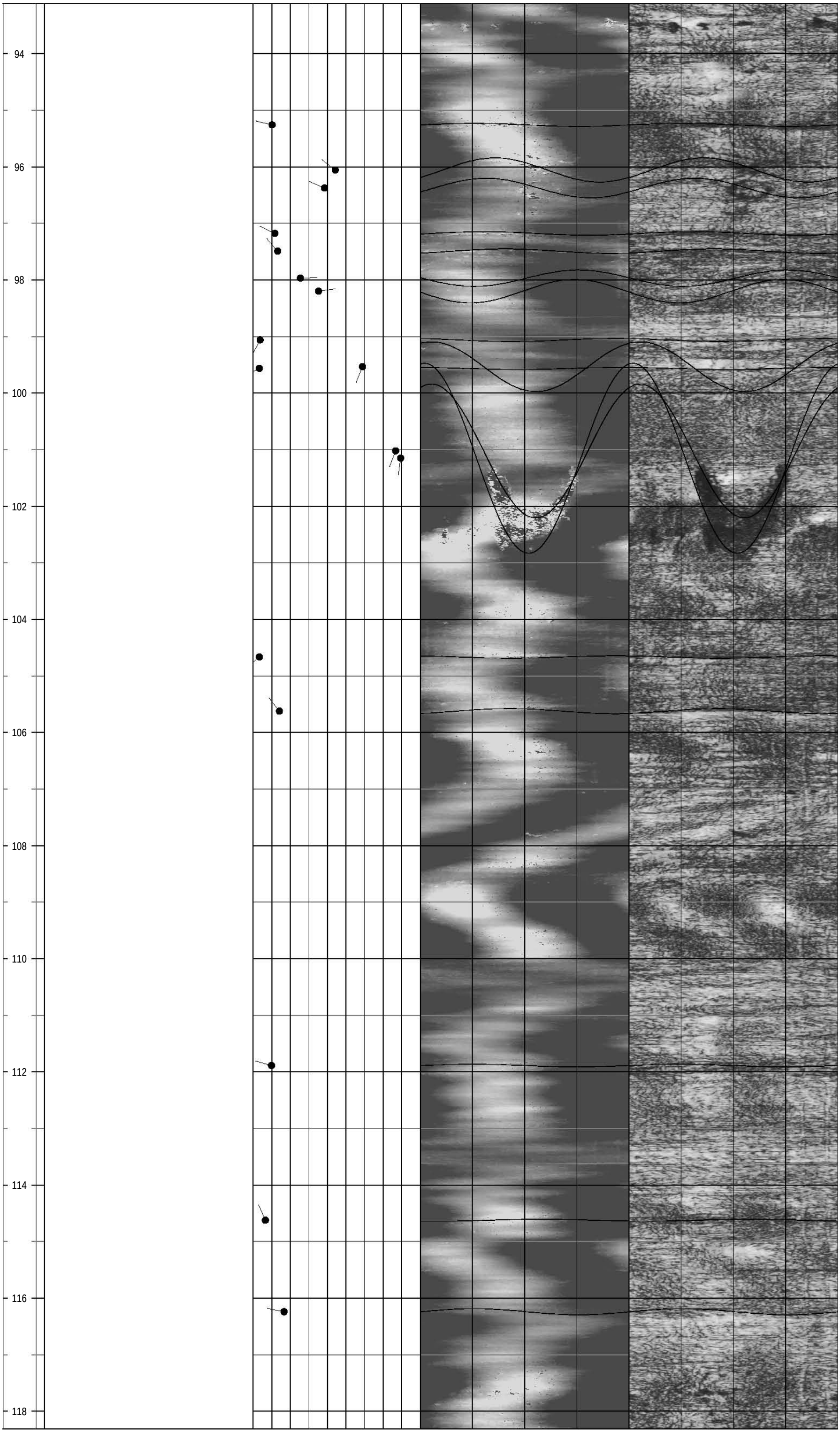


R2-0017252



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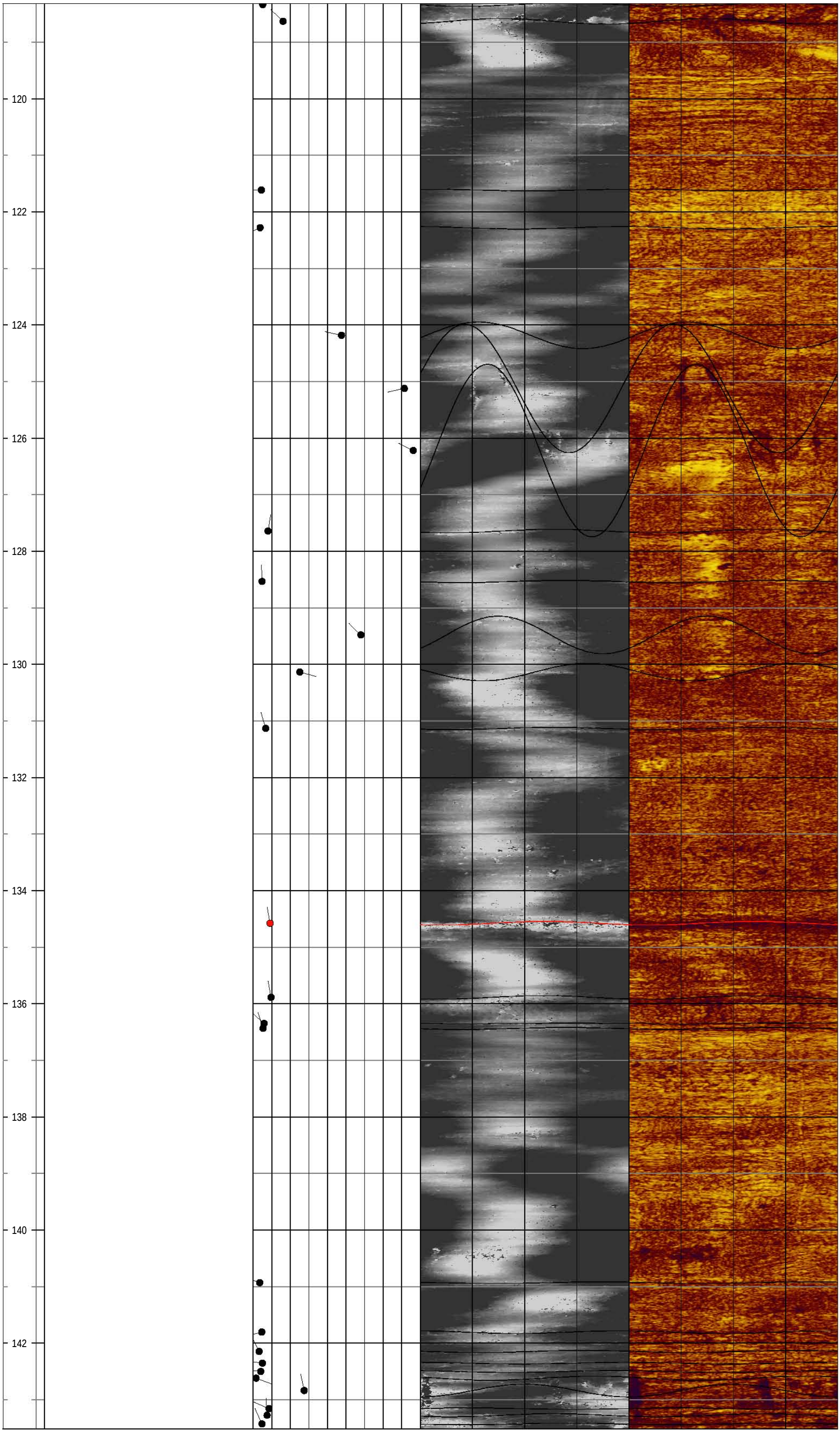
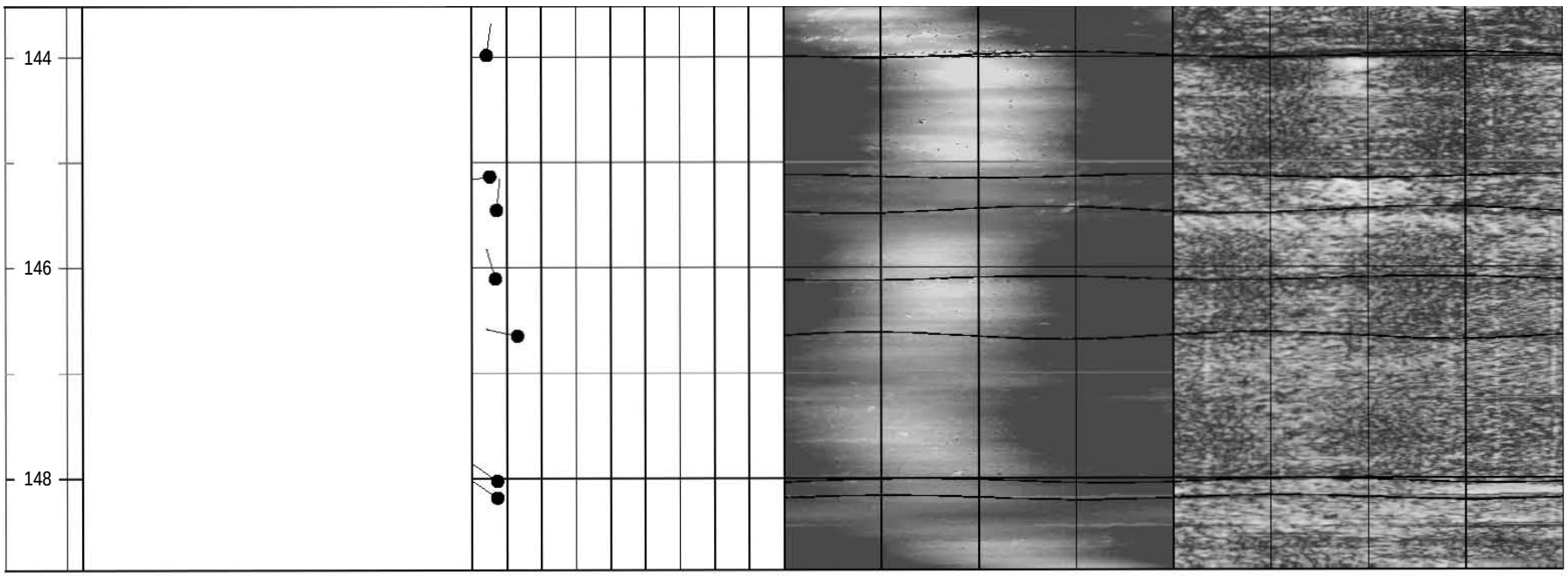
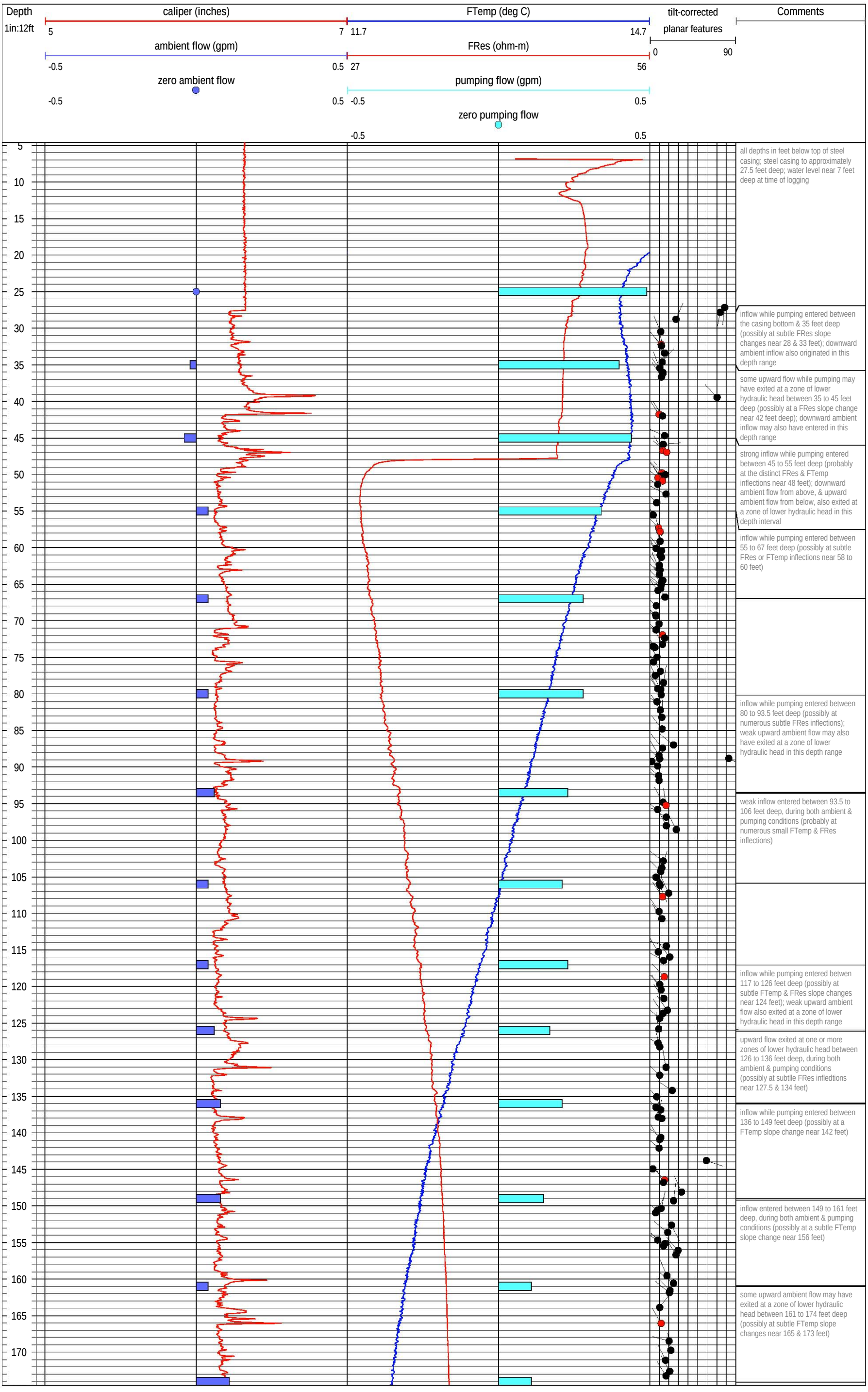


R2-0017254

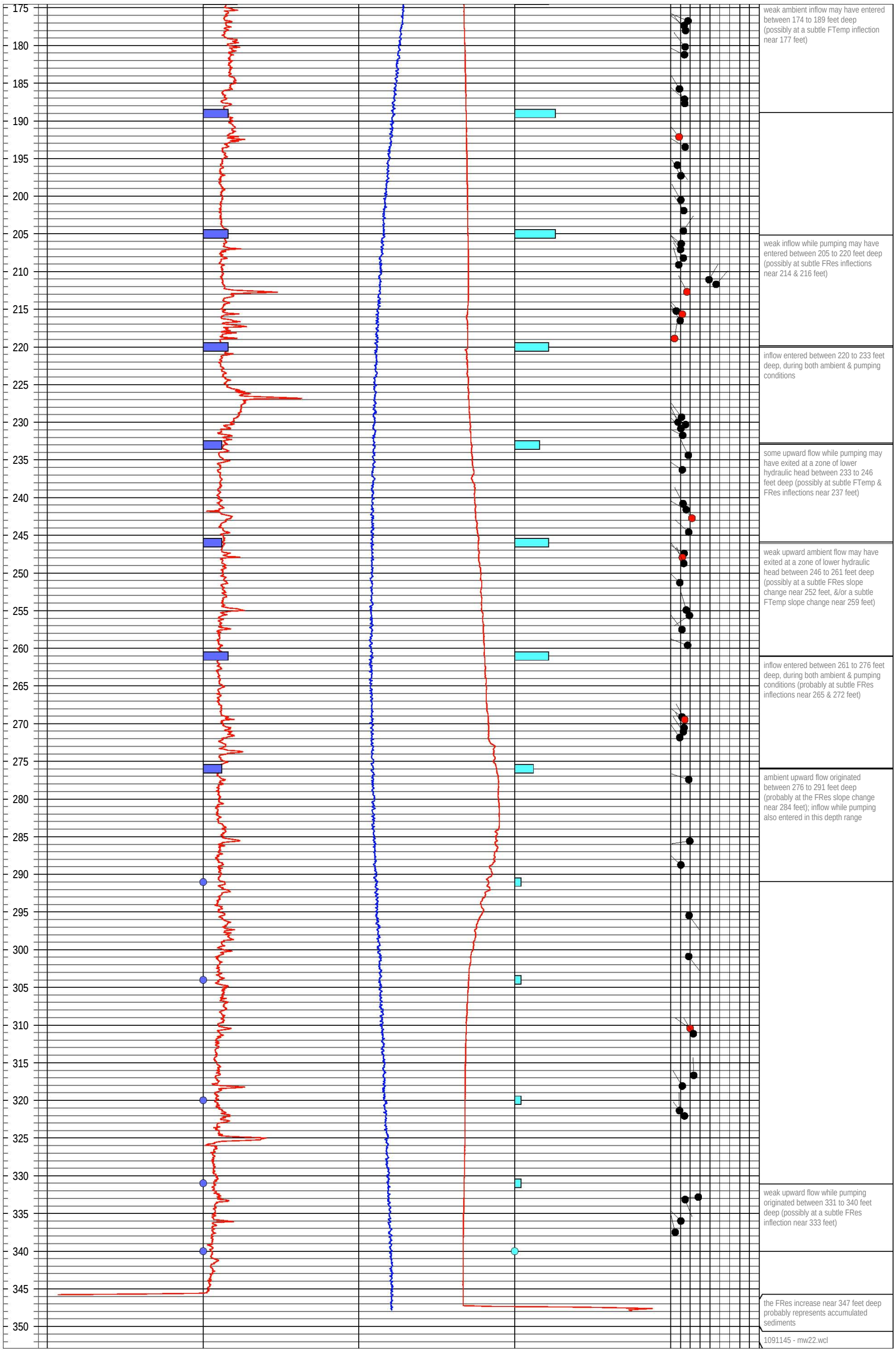


R2-0017255

Malcolm Pirnie / South Plainfield, NJ - MW-22 conventional logs



R2-0017256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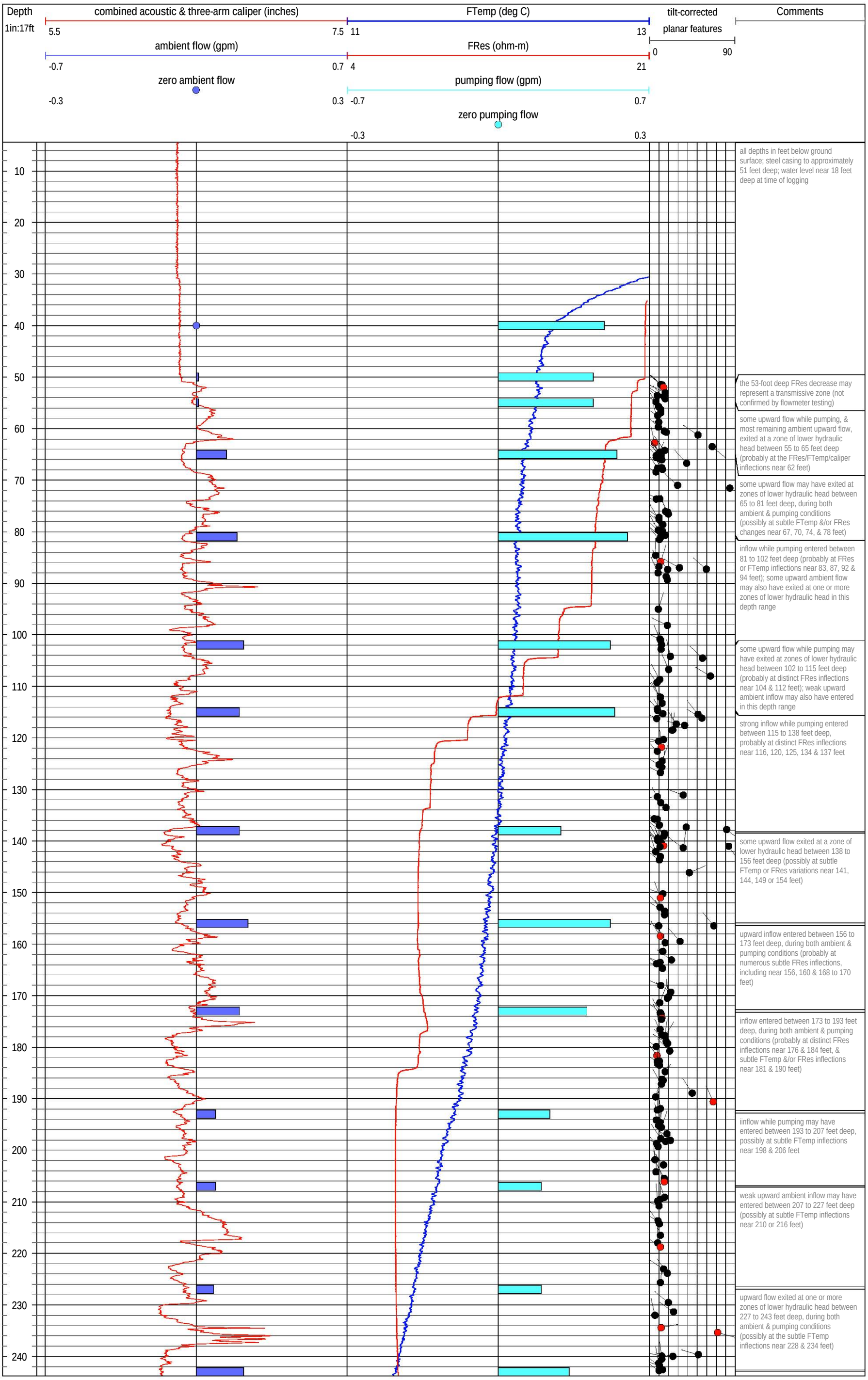
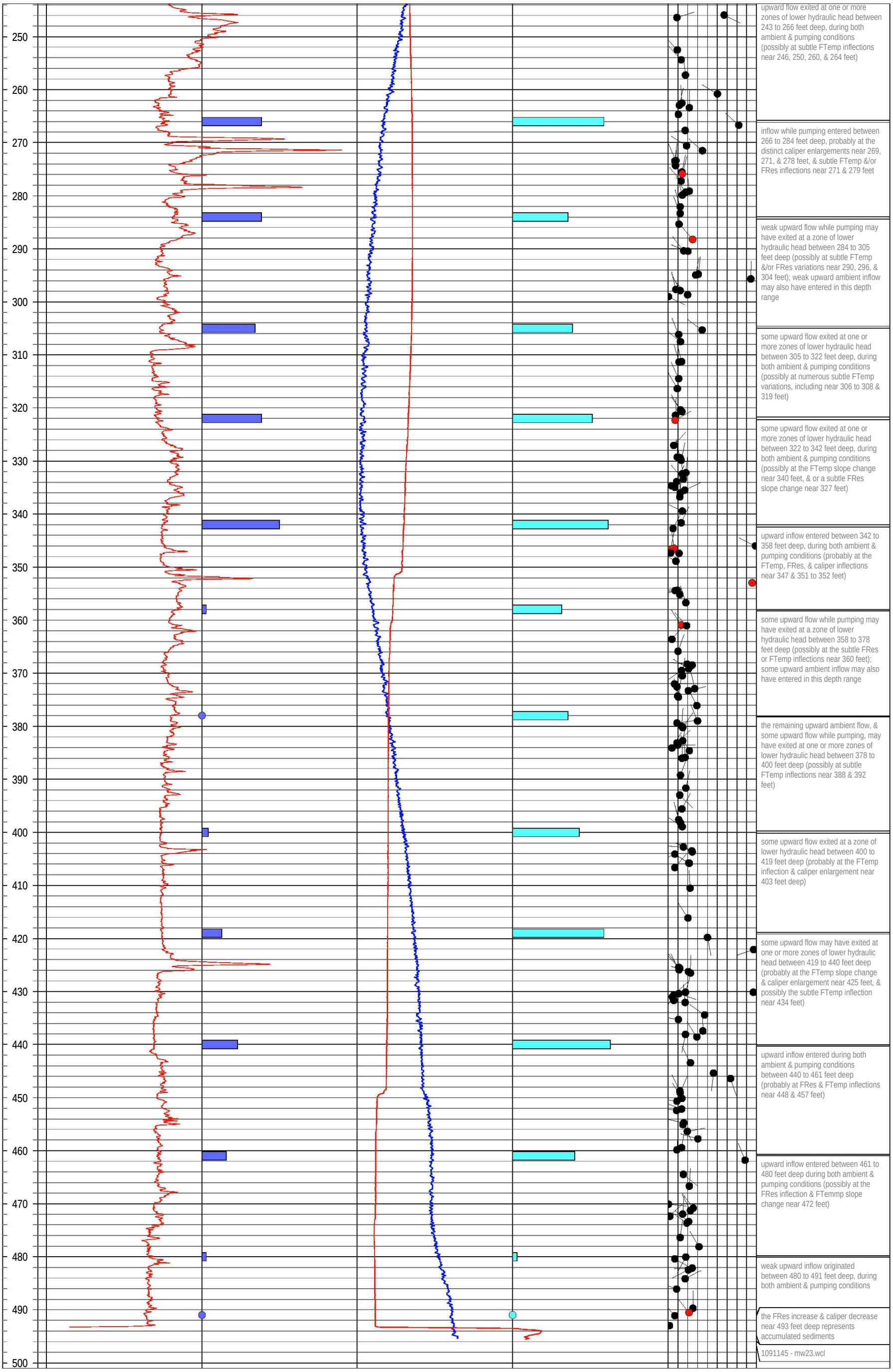
weak ambient inflow may have entered between 174 to 189 feet deep (possibly at a subtle FTemp inflection near 177 feet)
weak inflow while pumping may have entered between 205 to 220 feet deep (possibly at subtle FRes inflections near 214 & 216 feet)
inflow entered between 220 to 233 feet deep, during both ambient & pumping conditions
some upward flow while pumping may have exited at a zone of lower hydraulic head between 233 to 246 feet deep (possibly at subtle FTemp & FRes inflections near 237 feet)
weak upward ambient flow may have exited at a zone of lower hydraulic head between 246 to 261 feet deep (possibly at a subtle FRes slope change near 252 feet, &/or a subtle FTemp slope change near 259 feet)
inflow entered between 261 to 276 feet deep, during both ambient & pumping conditions (probably at subtle FRes inflections near 265 & 272 feet)
ambient upward flow originated between 276 to 291 feet deep (probably at the FRes slope change near 284 feet); inflow while pumping also entered in this depth range
weak upward flow while pumping originated between 331 to 340 feet deep (possibly at a subtle FRes inflection near 333 feet)
the FRes increase near 347 feet deep probably represents accumulated sediments
1091145 - mw22.wcl

Malcolm Pirnie / South Plainfield, NJ - MW-23 conventional logs

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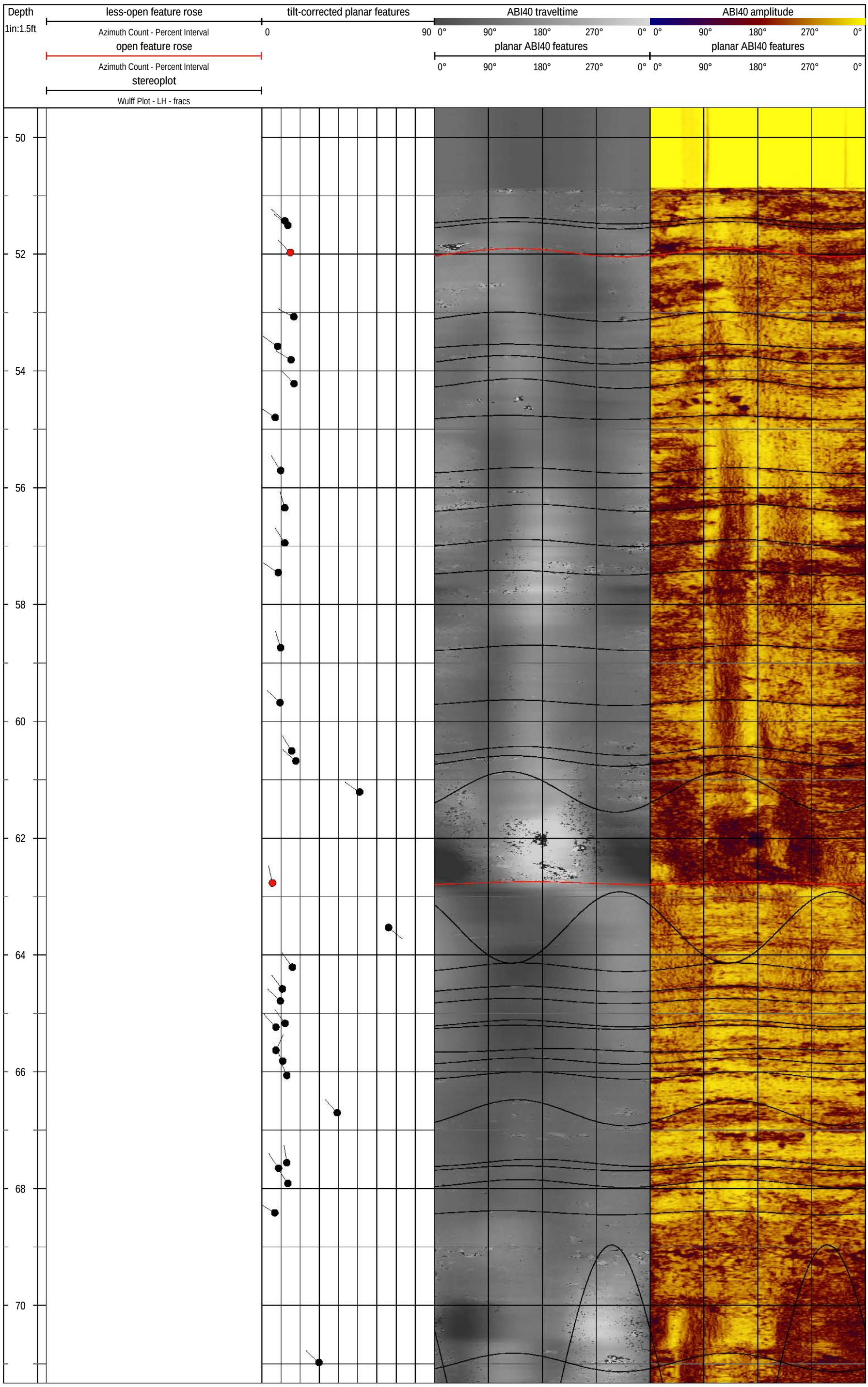
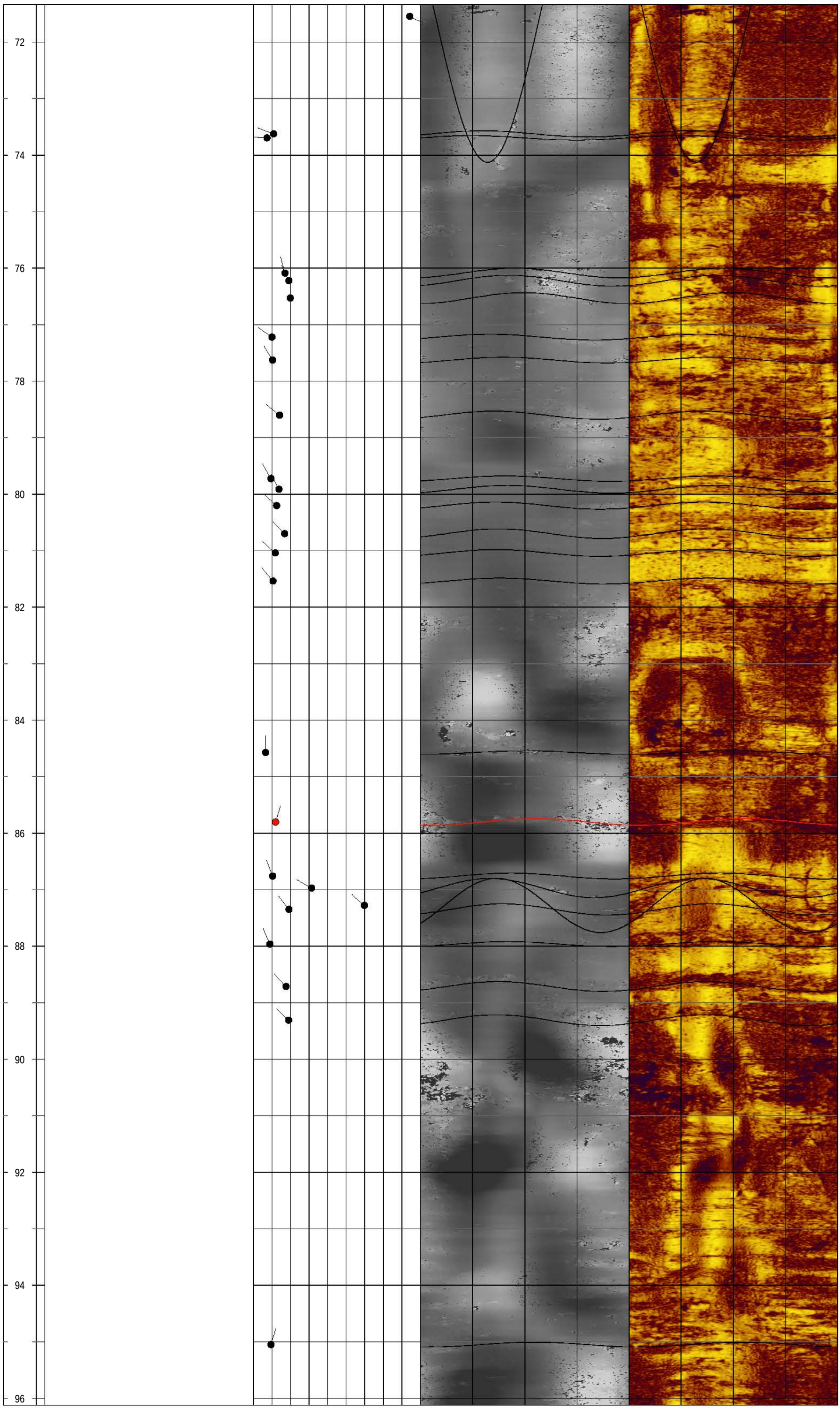
upward flow exited at one or more zones of lower hydraulic head between 243 to 266 feet deep, during both ambient & pumping conditions (possibly at subtle FTemp inflections near 246, 250, 260, & 264 feet)
inflow while pumping entered between 266 to 284 feet deep, probably at the distinct caliper enlargements near 269, 271, & 278 feet, & subtle FTemp &/or FRes inflections near 271 & 279 feet
weak upward flow while pumping may have exited at a zone of lower hydraulic head between 284 to 305 feet deep (possibly at subtle FTemp &/or FRes variations near 290, 296, & 304 feet); weak upward ambient inflow may also have entered in this depth range
some upward flow exited at one or more zones of lower hydraulic head between 305 to 322 feet deep, during both ambient & pumping conditions (possibly at numerous subtle FTemp variations, including near 306 to 308 & 319 feet)
some upward flow exited at one or more zones of lower hydraulic head between 322 to 342 feet deep, during both ambient & pumping conditions (possibly at the FTemp slope change near 340 feet, & or a subtle FRes slope change near 327 feet)
upward inflow entered between 342 to 358 feet deep, during both ambient & pumping conditions (probably at the FTemp, FRes, & caliper inflections near 347 & 351 to 352 feet)
some upward flow while pumping may have exited at a zone of lower hydraulic head between 358 to 378 feet deep (possibly at the subtle FRes or FTemp inflections near 360 feet); some upward ambient inflow may also have entered in this depth range
the remaining upward ambient flow, & some upward flow while pumping, may have exited at one or more zones of lower hydraulic head between 378 to 400 feet deep (possibly at subtle FTemp inflections near 388 & 392 feet)
some upward flow exited at a zone of lower hydraulic head between 400 to 419 feet deep (probably at the FTemp inflection & caliper enlargement near 403 feet deep)
some upward flow may have exited at one or more zones of lower hydraulic head between 419 to 440 feet deep (probably at the FTemp slope change & caliper enlargement near 425 feet, & possibly the subtle FTemp inflection near 434 feet)
upward inflow entered during both ambient & pumping conditions between 440 to 461 feet deep (probably at FRes & FTemp inflections near 448 & 457 feet)
upward inflow entered between 461 to 480 feet deep during both ambient & pumping conditions (possibly at the FRes inflection & FTemmp slope change near 472 feet)
weak upward inflow originated between 480 to 491 feet deep, during both ambient & pumping conditions
the FRes increase & caliper decrease near 493 feet deep represents accumulated sediments
1091145 - mw23.wcl

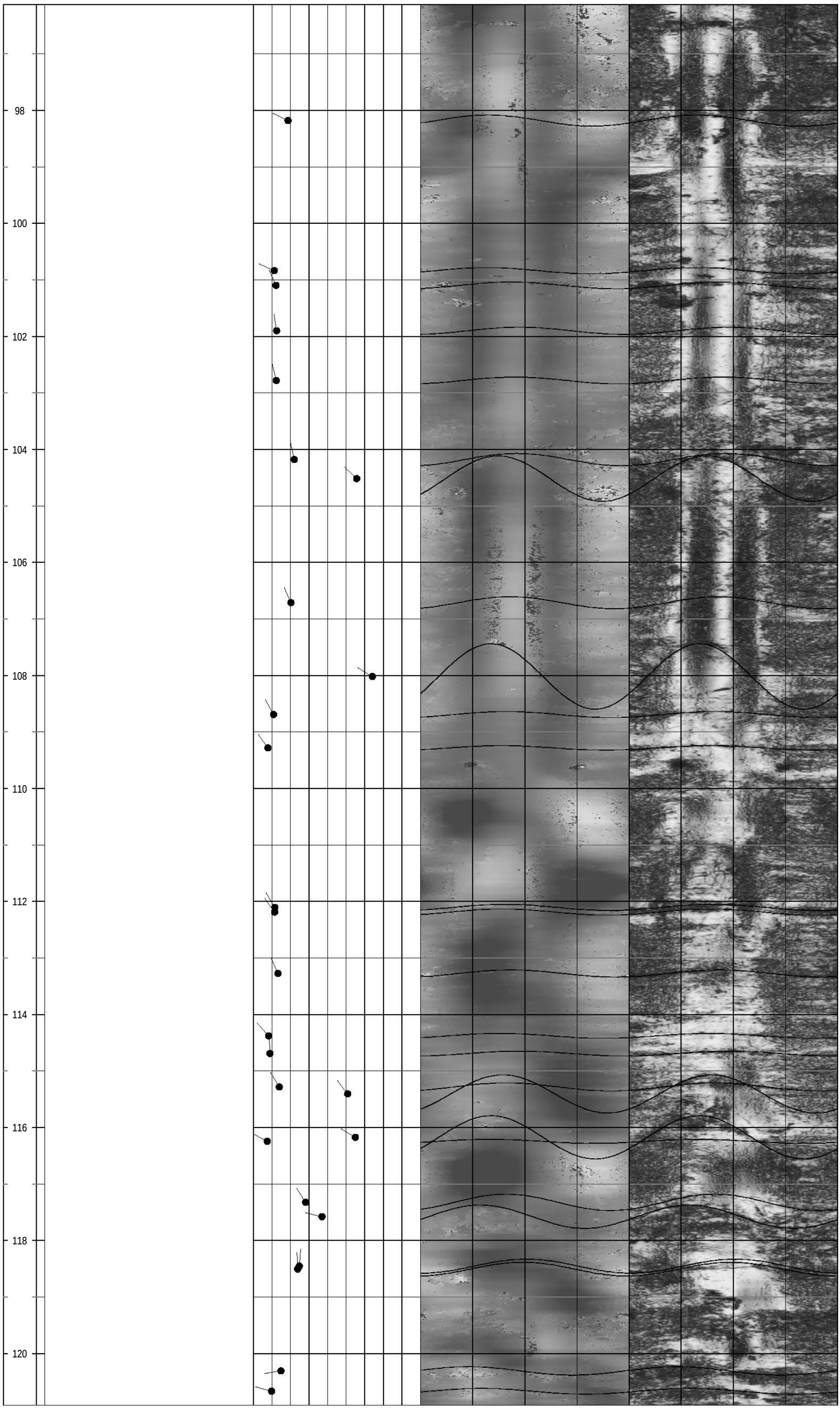
Malcolm Pirnie / South Plainfield, NJ - MW-23 acoustic televiewer log



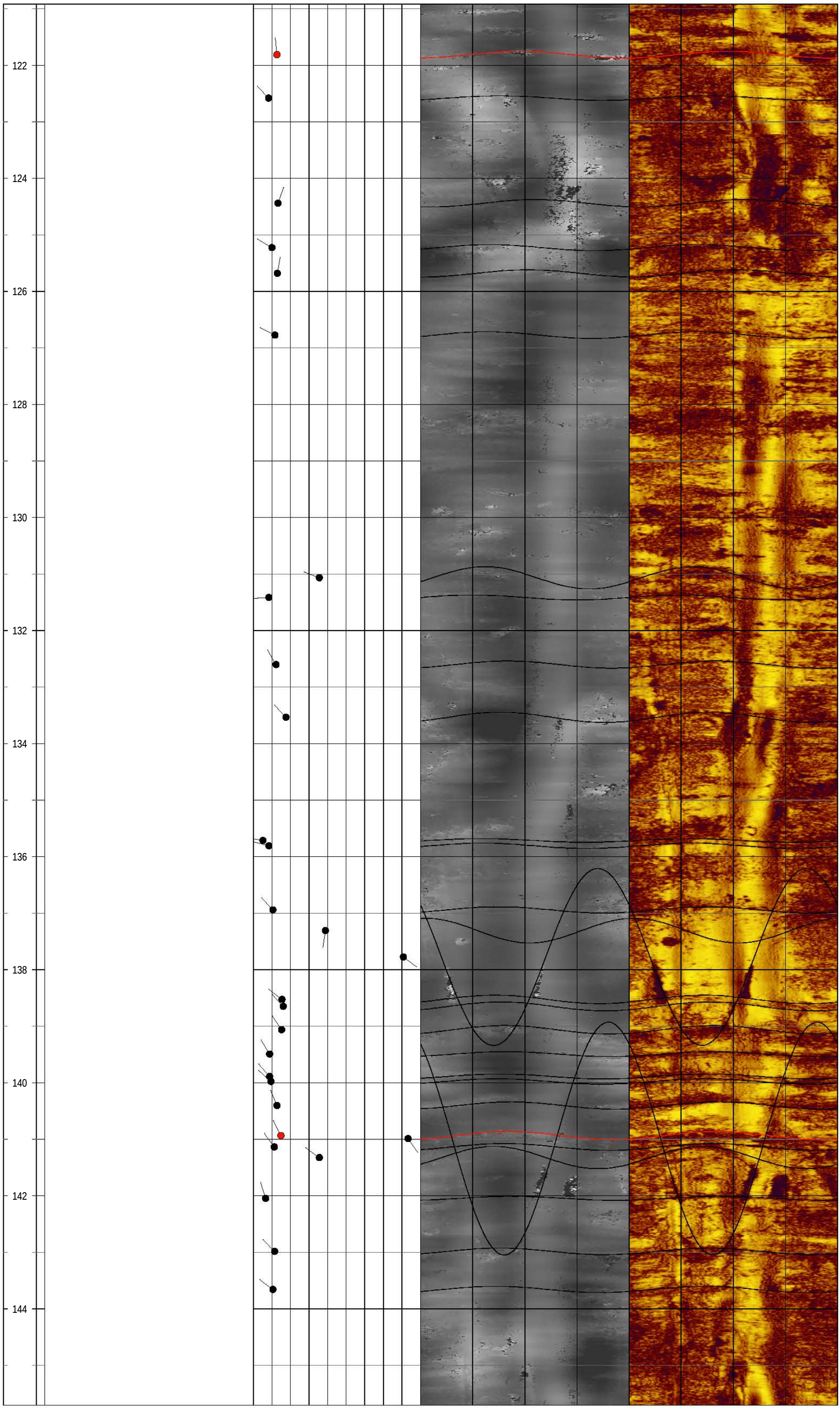
R2-0017260



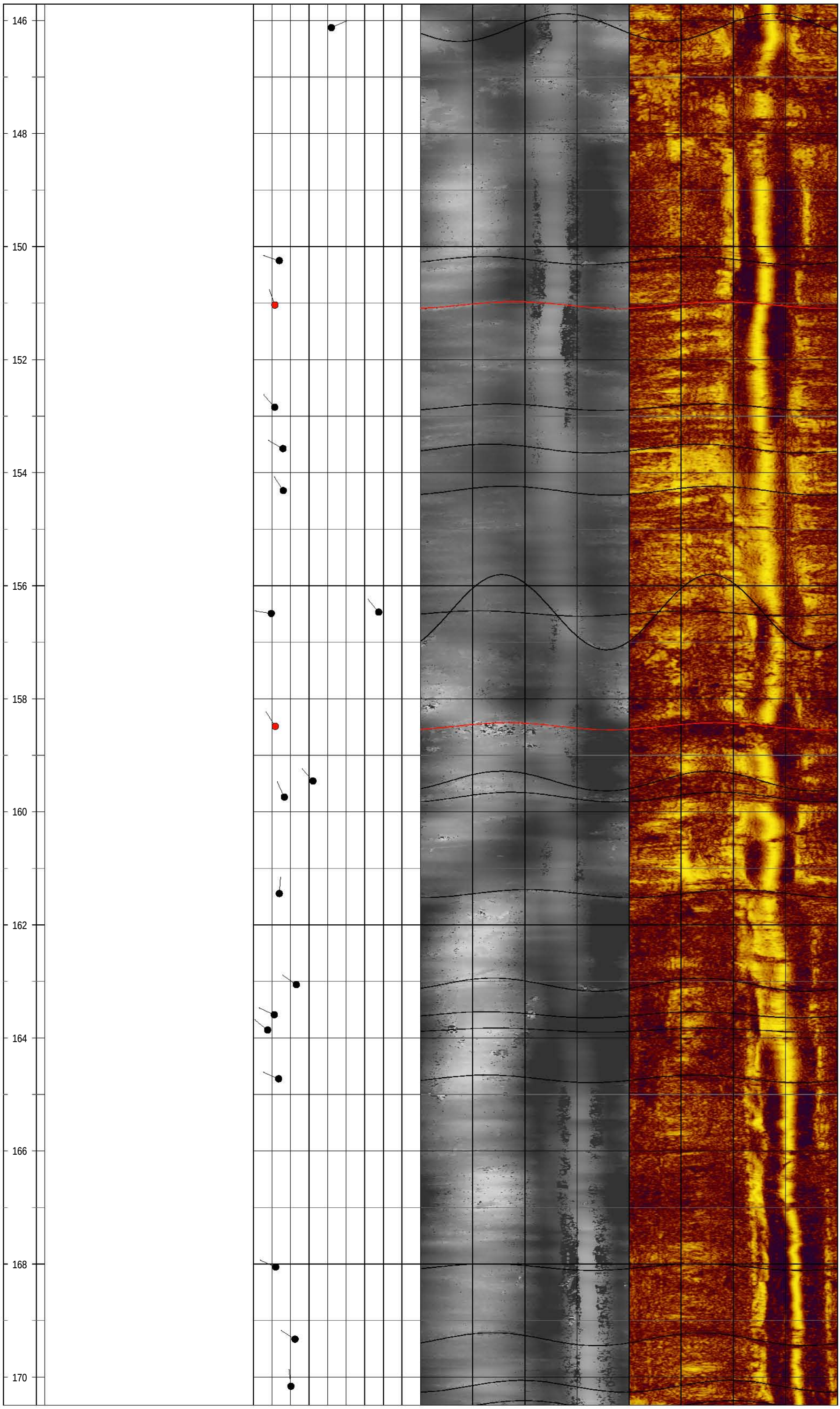
R2-0017261



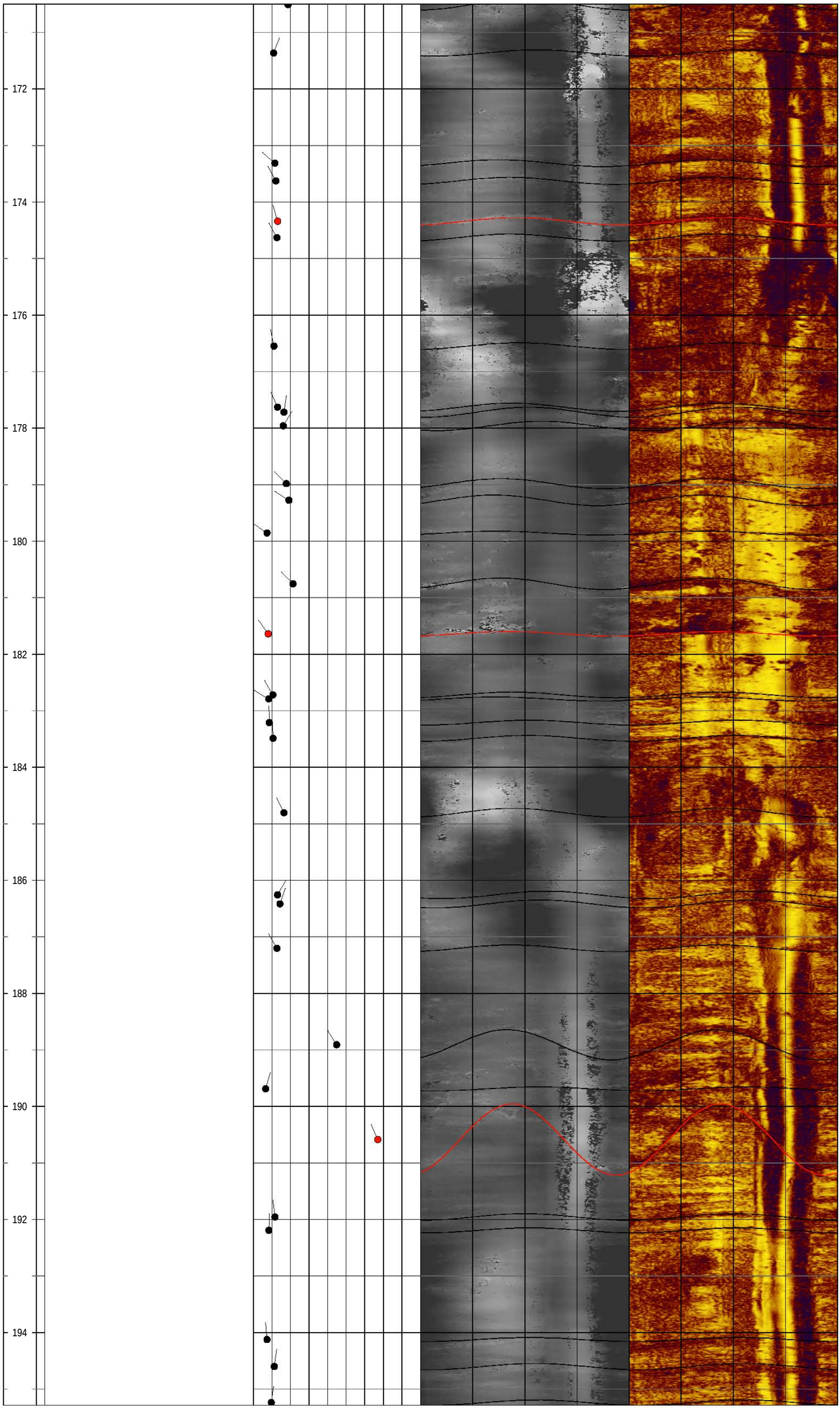
R2-0017262



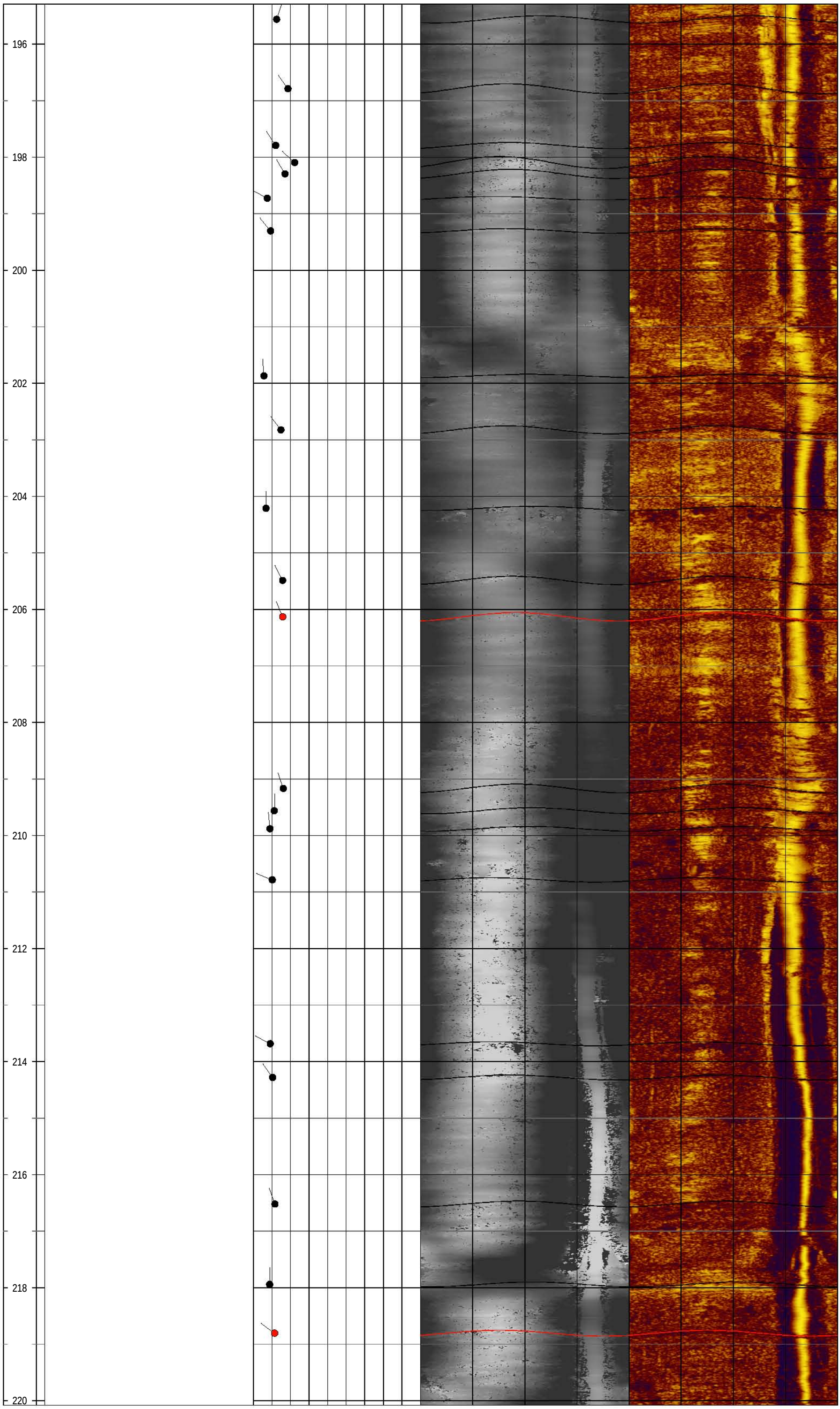
R2-0017263



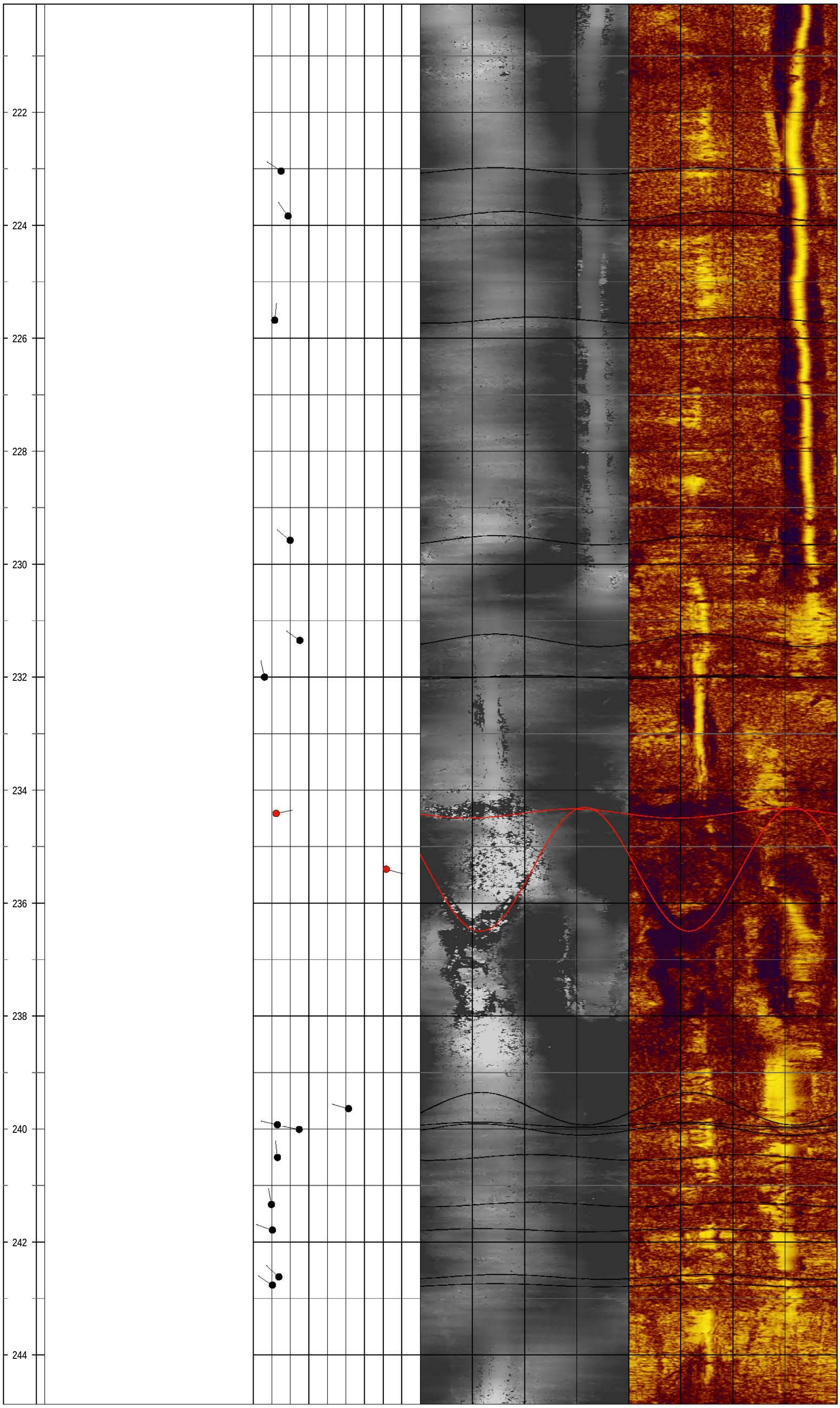
R2-0017264



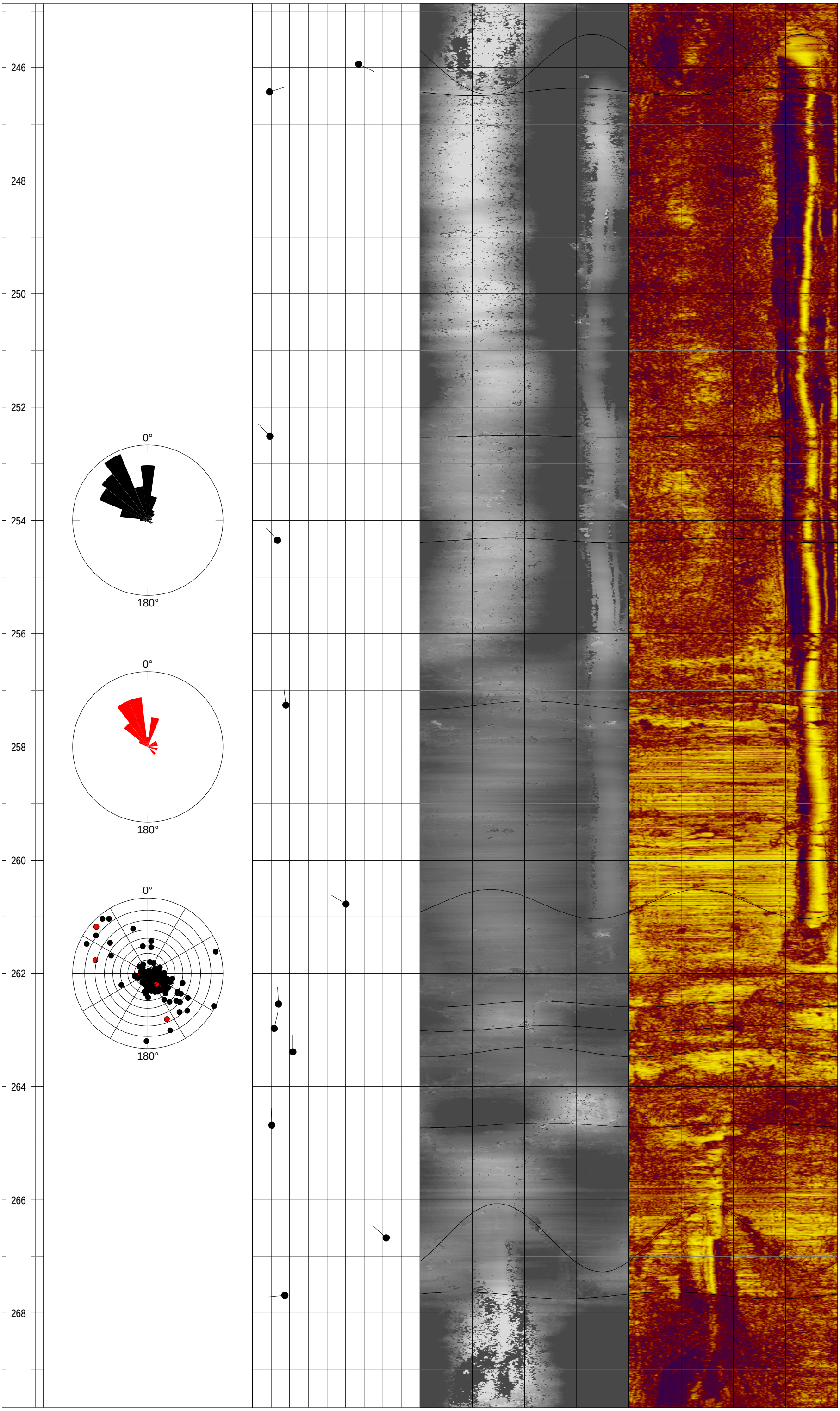
R2-0017265



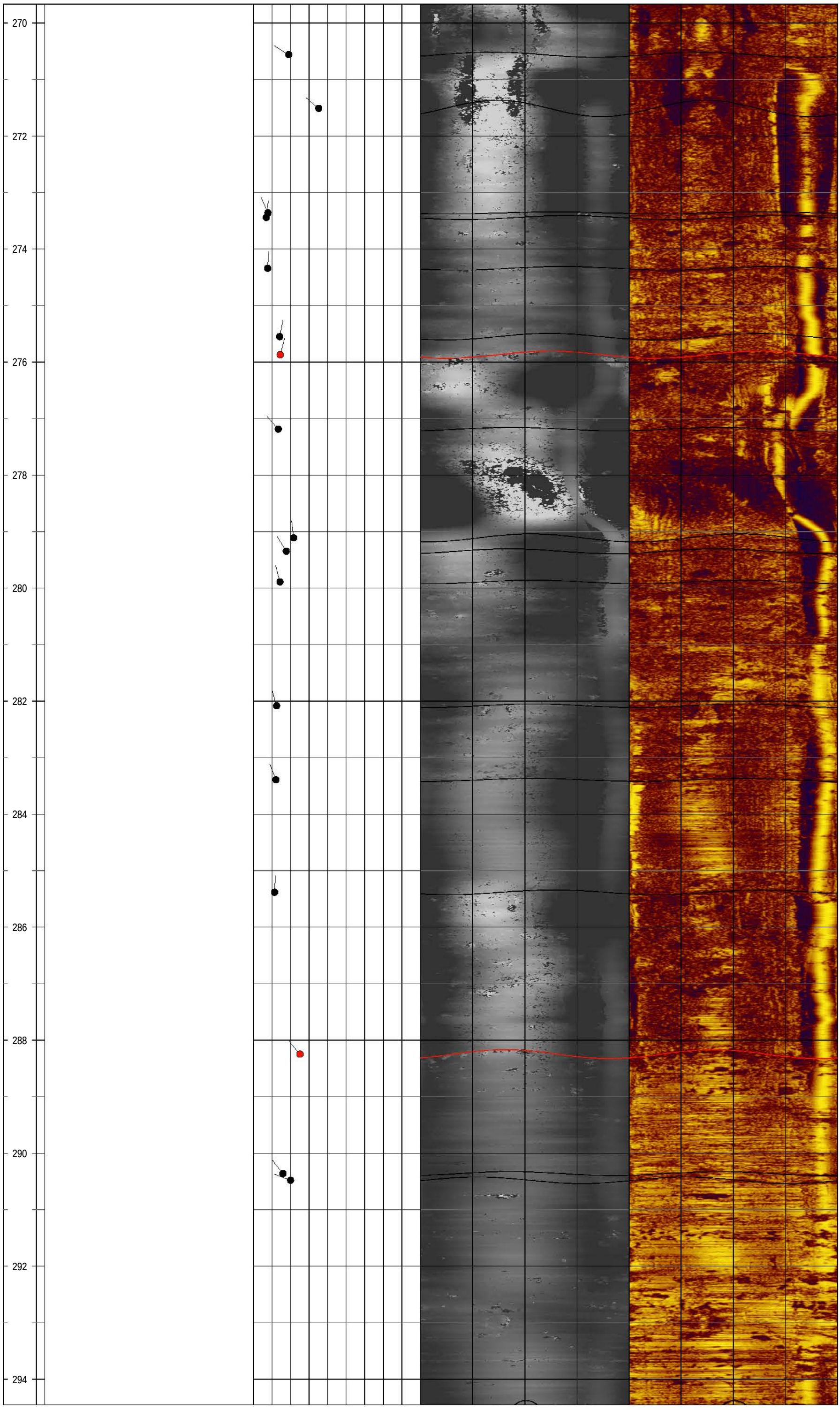
R2-0017266



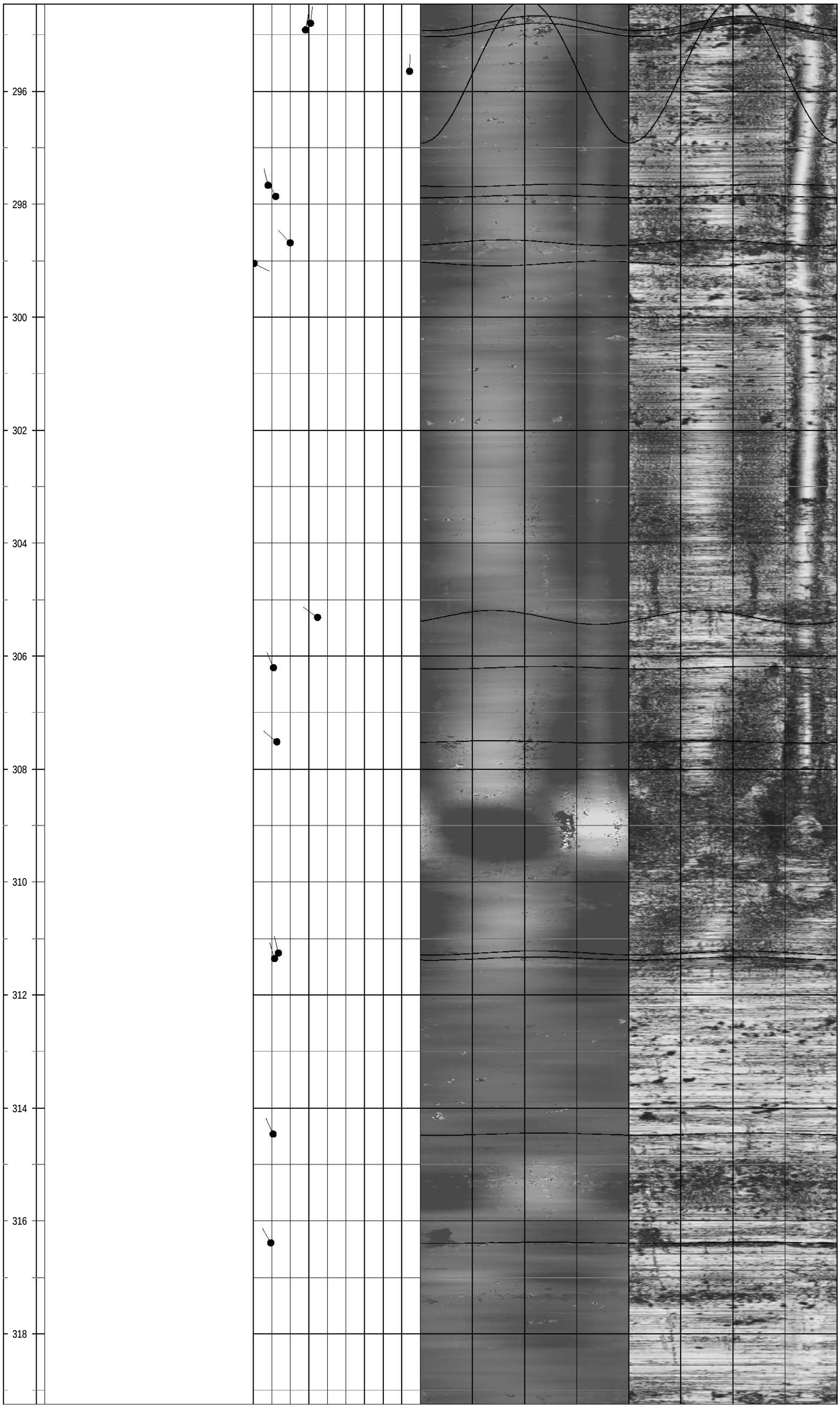
R2-0017267



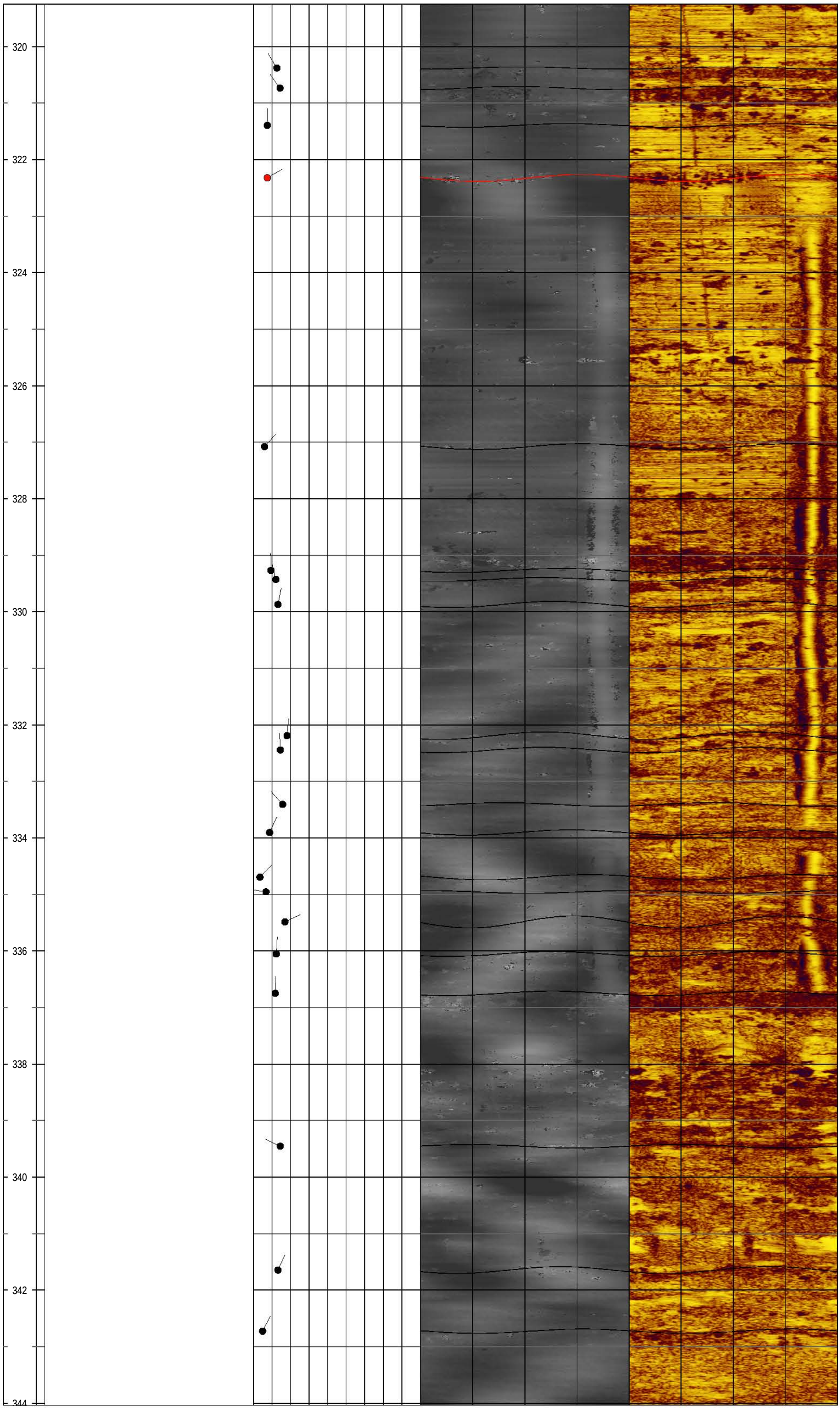
R2-0017268



R2-0017269



R2-0017270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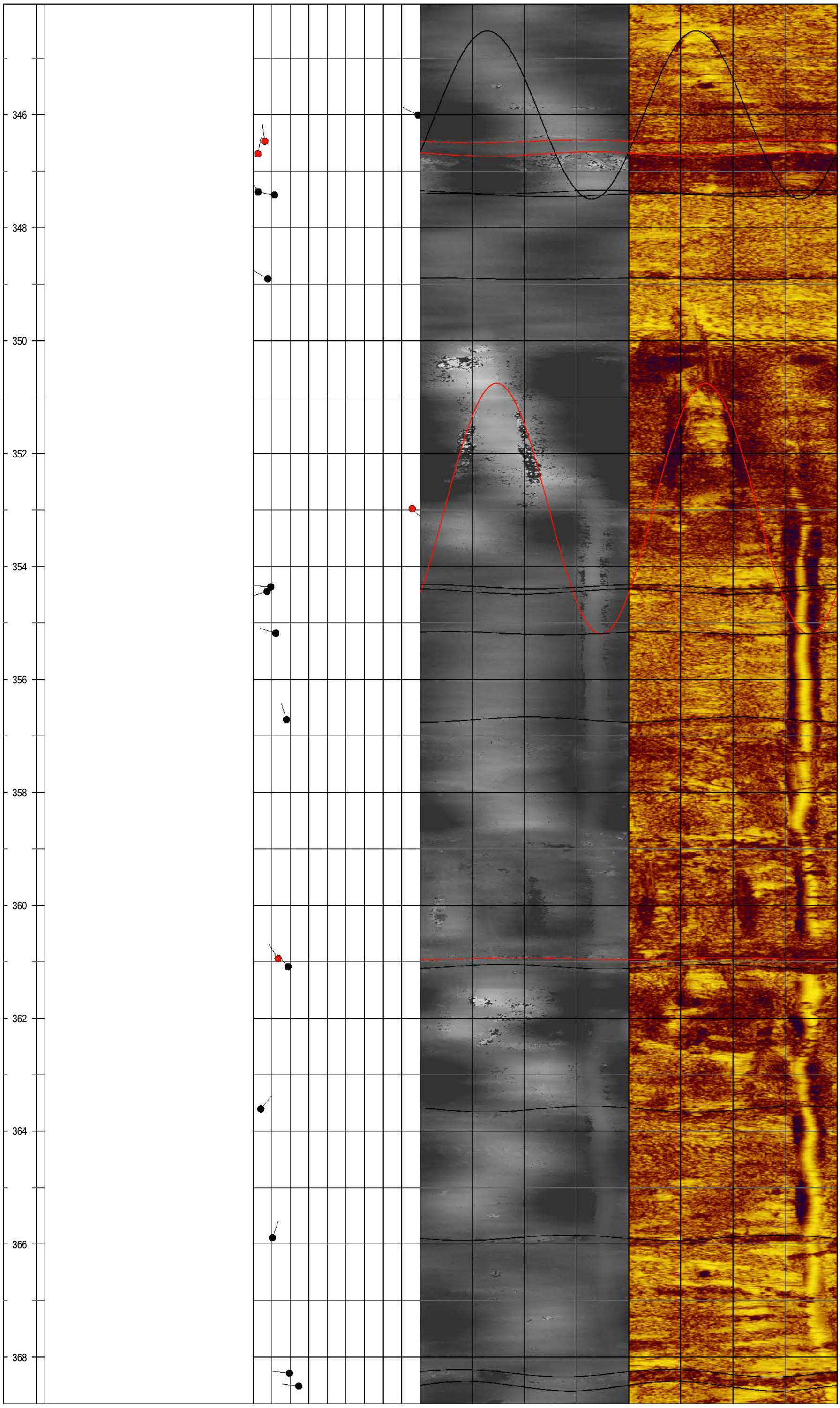
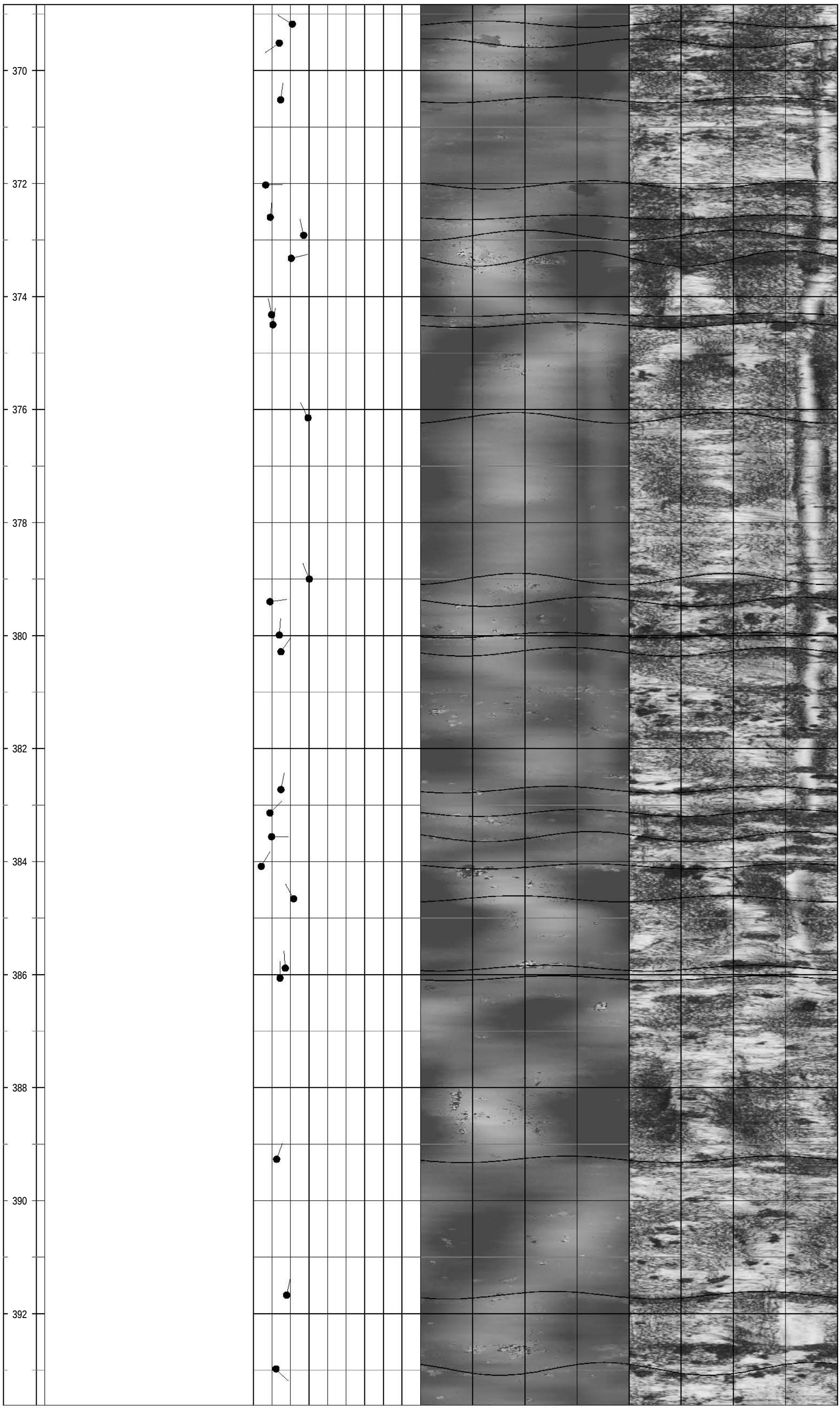


R2-0017272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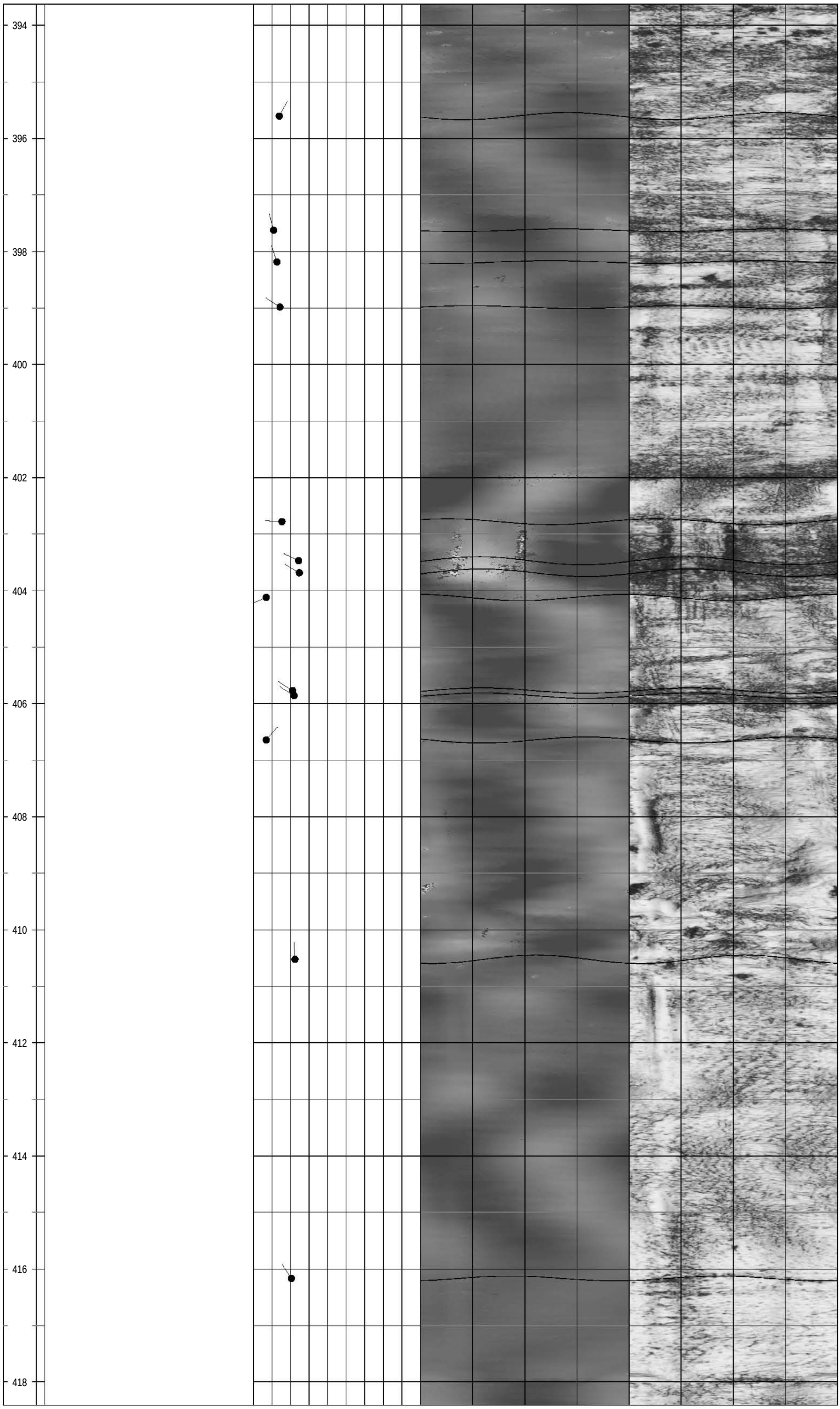
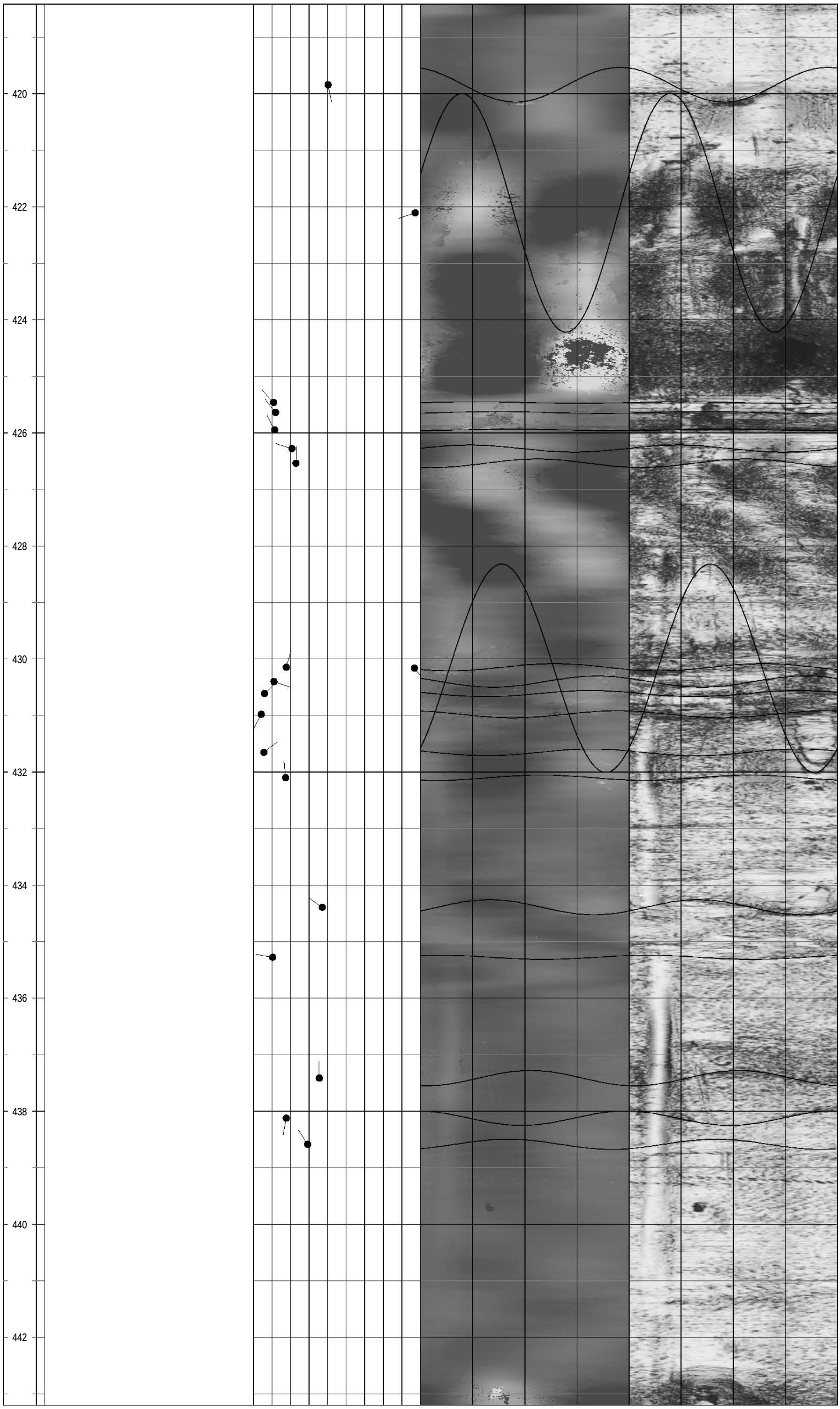
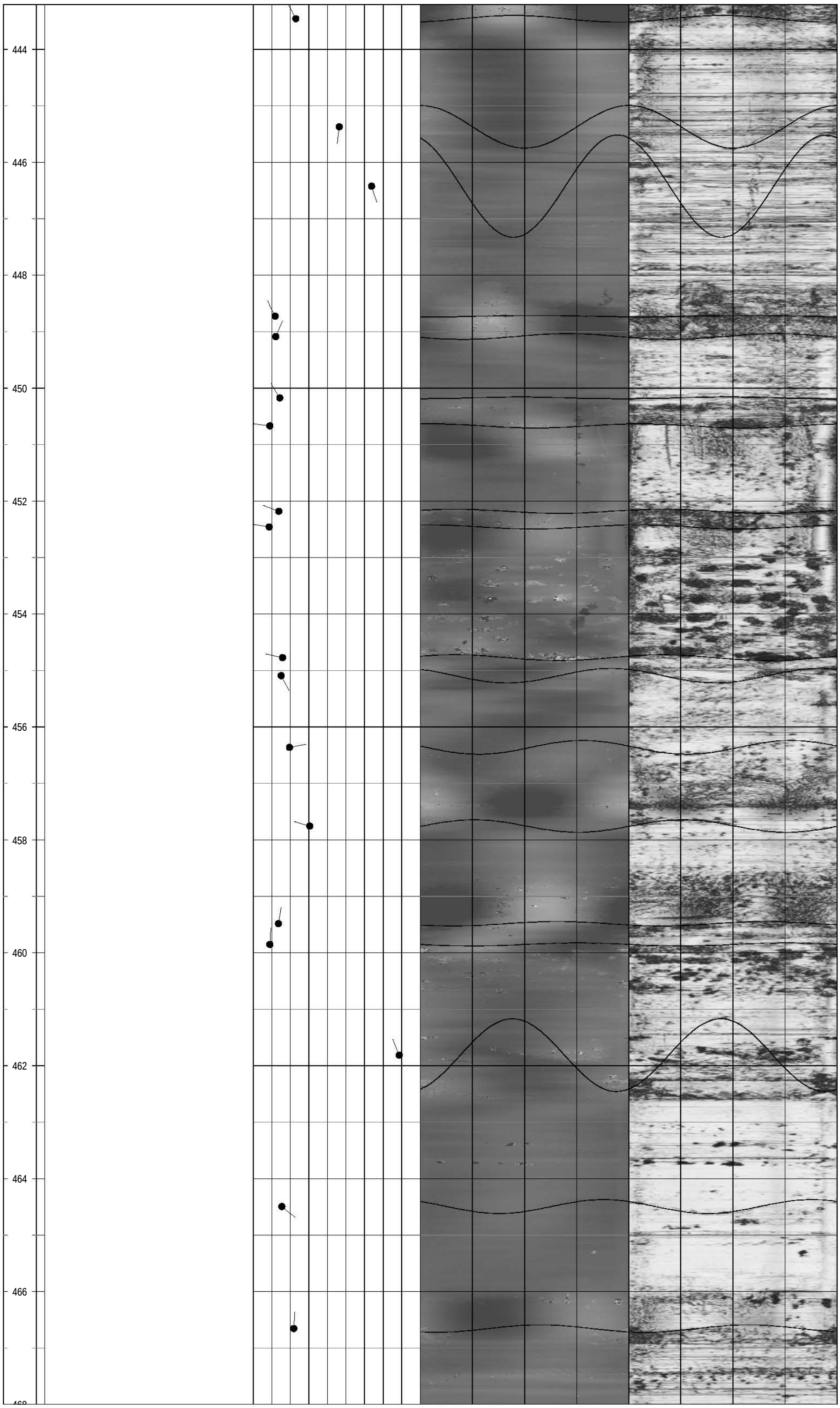


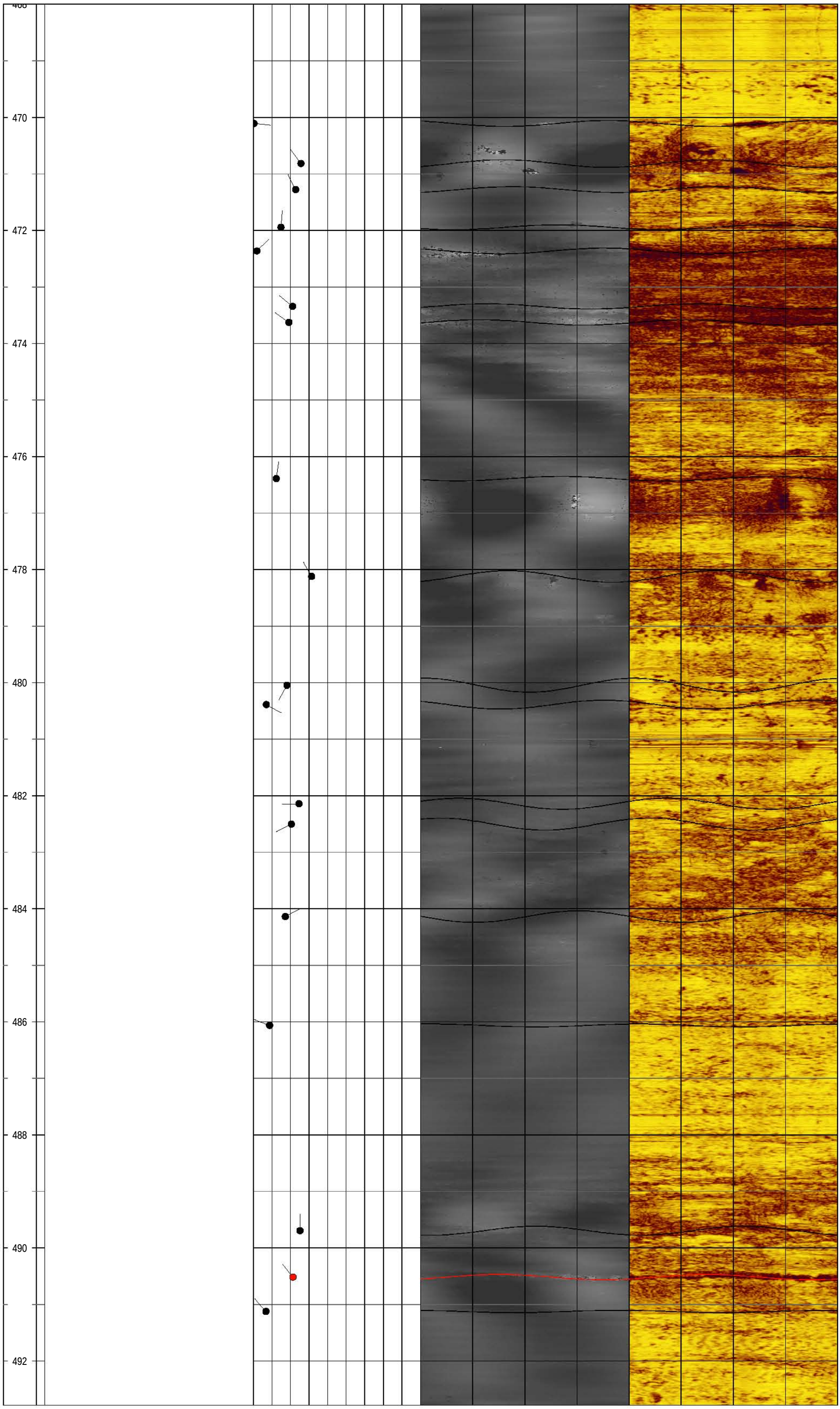
R2-0017274



R2-0017275



R2-0017276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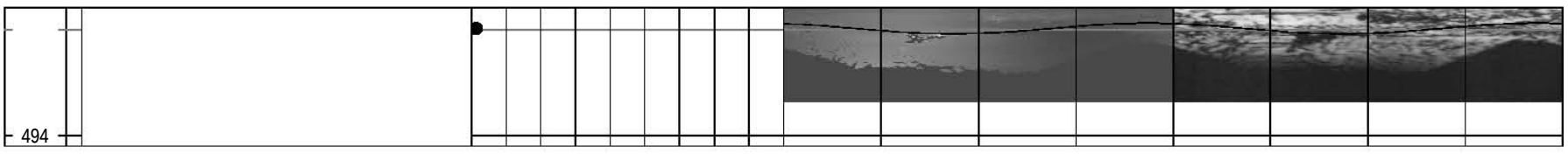

R2-0017278

Planar Feature Orientations Interpreted from the ERT-7I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
20	25.8	210.23	39.5	less-open
	25.82	29.58	46.41	less-open
	26.01	24.5	65.0	less-open
	26.56	31.6	67.9	open
	27.02	50.2	68.6	less-open
	27.17	213.5	68.0	less-open
	27.29	145.7	64.5	less-open
	27.73	39.2	69.5	less-open
	28.36	252.1	11.8	less-open
30	30.37	43.34	69.04	less-open
	30.83	14.63	7.28	less-open
	31.28	141.5	79.7	less-open
	31.34	298.0	11.7	less-open
	32.08	17.8	30.2	less-open
	32.81	69.1	69.2	less-open
	32.88	73.0	23.6	open
	33.43	326.5	56.2	less-open
	33.54	311.6	11.7	less-open
	33.77	316.5	20.8	less-open
	34.22	287.58	12.31	less-open
	34.57	306.67	1.55	less-open
	34.87	345.9	3.3	less-open
	35.06	34.2	6.2	less-open
	35.43	97.1	1.9	less-open
	35.87	207.7	6.9	less-open
	36.30	61.3	12.3	less-open
	37.04	330.6	11.6	less-open
	37.52	53.8	59.4	less-open
	38.41	314.2	11.7	less-open
	39.32	189.3	76.1	less-open
40	40.03	33.6	22.5	less-open
	40.73	291.5	8.4	less-open
	42.56	11.8	7.1	less-open
	43.30	315.7	16.6	less-open
	43.97	269.0	12.7	less-open
	45.06	312.2	11.1	less-open
	45.21	213.9	5.1	less-open
	45.67	347.1	26.2	less-open
	46.56	30.0	10.2	less-open
	46.82	321.4	13.0	less-open
	47.90	275.4	8.2	less-open
	49.06	31.6	3.3	less-open
	49.4	306.83	15.82	less-open
50	51.73	33.41	10.18	open
	53.45	99.3	37.3	less-open
	54.20	26.9	9.6	less-open
	55.25	9.5	7.2	less-open
	56.21	44.8	13.5	less-open
	59.51	103.6	6.4	less-open
60	60.31	343.87	9.68	less-open
	62.29	12.11	5.47	less-open
	64.14	33.0	6.2	less-open
	65.50	32.7	5.8	less-open
	67.00	19.9	12.3	less-open
	67.49	53.76	75.47	open
	68.73	5.82	13.52	open
	69.05	293.4	68.7	less-open
	69.74	248.2	24.0	less-open
70	70.40	282.3	13.7	less-open
	70.64	252.7	31.0	less-open
	72.23	116.7	2.5	less-open
	73.59	38.25	5.64	less-open
	79.06	359.13	8.6	open
	79.58	344.3	21.4	open
80	81.90	1.2	11.2	less-open
	82.50	357.1	9.4	less-open
	82.96	21.2	14.6	less-open
	83.46	27.1	5.6	less-open
	83.97	17.3	5.3	less-open
	84.43	345.0	18.7	less-open
	87.94	303.5	14.2	less-open
90	95.26	284.2	10.4	less-open
	96.06	307.9	44.4	less-open
	96.37	294.0	38.5	less-open
	97.18	296.5	11.7	less-open
	97.49	320.2	13.3	less-open
	97.97	87.3	25.7	less-open
	98.2	81.9	35.3	less-open
	99.06	206.9	3.8	less-open
	99.53	201.9	59.1	less-open
	99.57	241.8	3.6	less-open
100	101.02	200.2	76.8	less-open
	101.15	187.6	79.4	less-open
	104.66	229.5	3.4	less-open
	105.62	322.8	14.2	less-open
110	111.89	286.8	9.9	less-open
	114.62	337.0	6.8	less-open
	116.24	281.3	16.9	less-open
	118.34	23.3	5.3	less-open
	118.63	315.0	16.2	less-open
120	121.62	269.7	4.7	less-open
	122.28	244.6	3.9	less-open
	124.18	282.4	47.6	less-open
	125.12	257.3	81.5	less-open
	126.22	296.1	86.3	less-open
	127.65	9.3	8.1	less-open
	128.54	358.4	4.9	less-open
	129.48	314.0	58.1	less-open
130	130.13	104.2	25.2	less-open
	131.13	343.9	6.9	less-open
	134.58	350.1	9.2	open
	135.89	349.9	9.7	less-open
	136.35	313.61	6.05	less-open
	136.44	342.62	5.43	less-open
140	140.93	291.7	3.7	less-open
	141.8	255.4	4.8	less-open
	142.15	334.6	3.3	less-open
	142.35	278.0	5.1	less-open
	142.5	278.1	4.1	less-open
	142.62	109.2	1.7	less-open
	142.84	349.5	27.6	less-open
	143.16	293.3	8.6	less-open
	143.28	357.7	7.7	less-open
	143.43	335.7	4.89	less-open
	143.98	7.49	4.33	less-open
	145.13	261.4	5.3	less-open
	145.46	5.5	7.3	less-open
	146.1	344.0	6.9	less-open
	146.65	282.3	13.3	less-open
	148.02	305.7	7.5	less-open
	148.19	304.8	7.4	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar Feature Orientations Interpreted from the FPWI Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
30	31.73	71.76	38.41	less-open
	32.19	14.30	27.81	less-open
	33.62	339.98	9.85	less-open
	34.31	338.92	7.79	less-open
	35.49	288.28	6.07	less-open
	36.78	56.34	17.62	less-open
	37.35	356.76	8.16	less-open
	37.77	10.18	8.68	open
	38.03	348.09	11.84	less-open
	38.39	146.78	75.19	less-open
	38.74	145.35	68.34	less-open
	38.76	327.83	14.25	less-open
	39.11	325.29	9.44	less-open
40	40.07	327.33	10.61	less-open
	40.76	333.27	12.62	less-open
	42.32	333.88	8.75	less-open
	42.60	337.33	11.08	open
	43.39	346.84	66.72	less-open
	43.57	333.74	16.21	open
	45.09	101.94	44.25	less-open
	45.30	323.73	23.63	less-open
	45.44	152.91	47.23	open
	45.80	5.75	17.58	less-open
	46.82	342.59	11.22	open
	47.25	1.01	17.84	less-open
	48.77	338.53	9.15	less-open
	49.39	330.30	9.84	less-open
50	50.38	316.75	12.24	less-open
	50.73	308.08	7.88	less-open
	50.99	320.40	12.74	open
	51.43	326.67	11.97	less-open
	52.15	322.25	10.52	less-open
	52.58	295.11	16.58	less-open
	52.84	337.29	10.57	open
	54.66	331.35	9.40	open
	54.82	324.55	11.75	open
	55.15	335.32	15.05	open
	56.35	340.49	11.08	less-open
	56.58	3.79	9.47	less-open
	58.25	319.88	7.90	less-open
	58.32	316.33	8.71	less-open
	58.43	336.42	8.73	less-open
	58.88	301.68	6.28	less-open
60	60.79	354.60	6.76	less-open
	61.59	336.06	8.35	less-open
	61.67	336.77	6.19	less-open
	61.79	329.29	8.52	less-open
	62.60	330.48	13.83	open
	63.73	294.85	5.19	open
	64.89	334.50	8.98	open
	65.42	292.46	9.36	less-open
	65.50	110.41	19.16	less-open
	66.23	166.99	35.10	less-open
	69.92	310.30	17.36	less-open
70	70.41	344.78	8.26	less-open
	70.87	171.97	18.50	open
	71.34	337.18	7.92	less-open
	71.95	295.42	18.62	less-open
	72.29	344.35	7.82	less-open
	73.23	349.35	7.21	open
	73.71	3.31	6.83	open
	74.10	0.34	13.38	open
	74.69	322.34	15.32	less-open
	74.95	302.32	10.58	less-open
	75.40	331.62	11.40	less-open
	76.22	330.41	9.95	less-open
	76.65	325.48	13.93	less-open
	78.30	48.55	11.58	less-open
	78.70	44.31	11.04	less-open
	79.72	184.73	36.18	less-open
80	80.27	163.65	43.16	less-open
	82.51	316.46	5.33	less-open
	82.91	298.74	11.65	less-open
	86.71	322.63	13.34	less-open
	88.01	344.18	10.61	less-open
	88.58	359.80	10.69	open
	89.41	342.29	9.50	less-open
90	90.30	335.83	10.15	open
	90.77	330.79	7.64	less-open

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	91.59	342.53	11.14	less-open
	91.92	342.92	11.48	open
	96.21	24.15	10.26	less-open
	96.70	8.52	6.40	less-open
	98.56	349.01	10.81	less-open
	99.39	325.59	10.76	open
100	100.70	304.98	7.39	less-open
	101.66	347.16	17.52	less-open
	102.25	310.47	10.97	less-open
	104.46	329.18	3.90	less-open
	104.47	31.51	5.32	less-open
	105.47	13.31	12.17	open
	105.87	71.20	7.87	open
	106.17	323.30	11.57	less-open
	106.48	316.75	14.57	less-open
	107.12	320.05	11.59	less-open
	107.41	221.77	41.26	less-open
	108.26	313.49	11.80	less-open
110	110.39	329.93	12.36	less-open
	110.81	310.11	14.90	less-open
	111.55	314.09	10.57	open
	112.16	322.02	8.44	less-open
	114.46	1.50	14.76	less-open
	115.84	312.55	15.87	less-open
	117.31	121.22	7.55	less-open
	119.12	332.87	5.99	less-open
120	120.59	336.51	10.96	less-open
	121.90	358.10	11.59	less-open
	123.90	349.75	10.28	less-open
	125.40	319.62	8.63	less-open
	127.59	324.16	14.91	less-open
	128.25	323.11	13.81	less-open
	128.46	319.40	19.75	open
	129.27	314.42	10.70	less-open
	129.62	313.77	13.58	open
130	130.94	352.94	12.50	less-open
	132.36	34.95	8.10	less-open
	133.86	319.40	10.62	less-open
	134.54	292.46	14.96	less-open
	134.73	293.43	10.84	less-open
	135.34	316.63	10.26	less-open
	136.63	330.54	14.72	less-open
	137.39	324.60	11.23	less-open
	137.60	325.06	9.05	less-open
	137.70	310.72	9.97	less-open
	139.72	335.32	9.92	less-open
140	142.26	318.61	6.27	less-open
	143.19	294.91	7.59	less-open
	143.32	310.12	8.44	less-open
	144.89	16.77	4.82	open
	149.51	4.61	9.01	less-open
150	150.75	5.75	17.26	less-open
	152.58	327.73	12.27	less-open
	153.20	304.67	13.93	open
	154.39	5.97	7.05	less-open
	154.69	310.31	19.96	less-open
	155.24	303.30	12.68	less-open
	157.46	308.75	7.63	less-open
	158.27	330.72	15.52	less-open
	158.61	325.10	9.61	less-open
	159.65	321.87	10.47	less-open
160	161.64	334.15	12.81	less-open
	162.61	336.15	11.58	less-open
	163.34	92.07	3.04	less-open
	164.44	332.21	5.79	less-open
	165.42	295.14	13.50	less-open
	165.79	137.00	79.15	open
	165.83	326.89	9.23	less-open
	168.55	359.22	4.97	open
	169.85	326.18	10.35	less-open
170	170.60	320.73	13.76	less-open
	170.84	326.40	11.66	less-open
	171.65	0.26	9.05	less-open
	172.45	319.94	5.17	open
	173.85	358.19	21.07	less-open
	174.54	350.34	9.84	less-open
	179.74	331.79	10.11	less-open
180	180.54	308.73	11.51	less-open
	180.81	309.45	12.18	less-open

Planar Feature Orientations Interpreted from the FPWI Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	181.18	327.57	11.51	less-open
	181.60	323.68	8.51	less-open
	184.18	312.95	9.43	less-open
	184.83	290.39	10.85	open
	185.92	305.37	7.35	open
	186.28	318.24	11.23	open
	187.11	331.39	3.82	less-open
	187.60	322.12	7.90	less-open
190	190.38	339.15	11.44	open
	191.77	348.32	7.61	less-open
	193.75	304.77	8.42	less-open
	194.37	289.77	11.20	less-open
	195.01	307.49	13.93	less-open
	196.21	316.51	9.98	less-open
	196.85	320.05	10.71	less-open
	197.21	314.13	7.91	less-open
	197.62	325.11	7.72	less-open
	198.74	327.93	8.19	less-open
	199.92	347.15	7.91	less-open
200	202.21	329.00	7.51	open
	204.49	336.52	10.57	less-open
	206.55	309.70	10.71	less-open
	206.82	328.08	9.31	less-open
	207.77	351.86	8.29	less-open
	209.97	340.05	12.72	open
210	210.45	335.04	8.79	less-open
	210.78	334.56	7.67	less-open
	212.72	329.20	12.02	less-open
	213.09	28.65	48.76	open
	215.70	319.57	5.77	less-open
	216.73	272.62	13.18	less-open
	217.89	335.82	9.36	less-open
	218.71	307.88	12.95	less-open
	218.99	330.31	9.97	less-open
	219.57	317.39	9.91	less-open
220	220.05	349.75	31.07	less-open
	222.81	318.84	9.71	less-open
	223.10	324.91	16.82	less-open
	225.12	281.09	24.15	less-open
	227.00	317.65	7.36	less-open
	228.00	346.04	7.35	less-open
	228.42	343.30	12.97	less-open
230	230.46	308.47	7.22	less-open
	231.09	300.05	10.42	less-open
	233.93	322.30	10.39	less-open
	234.41	353.78	10.79	less-open
	235.22	6.98	12.61	less-open
	235.47	50.47	9.87	less-open
	238.12	344.16	7.03	open
240	240.65	335.89	11.38	less-open
	240.77	331.33	10.83	less-open
	241.28	317.58	9.92	less-open
	242.57	344.76	9.10	less-open
	243.35	349.23	8.25	less-open
	246.75	290.76	23.81	less-open
	247.53	320.06	8.78	open
	249.57	343.72	7.56	less-open
250	251.36	330.37	11.68	less-open
	255.12	63.25	12.36	less-open
	255.35	31.37	16.11	less-open
	257.27	301.82	14.00	less-open
	258.41	319.53	9.07	less-open
	258.91	350.32	16.88	less-open
260	262.79	312.51	33.70	less-open
	263.60	9.64	16.49	less-open
	268.15	338.59	8.74	less-open
	268.68	346.68	17.24	open
	269.75	309.67	7.70	open
270	270.43	321.93	15.90	less-open
	271.32	315.62	60.90	less-open
	271.62	316.14	66.15	less-open
	273.04	96.00	5.31	open
	274.09	336.78	13.91	open
	274.50	330.71	11.98	less-open
	274.91	335.87	10.10	less-open
	276.52	322.37	9.82	less-open
	277.56	0.43	6.58	less-open
	278.77	346.91	7.74	less-open
280	281.10	322.21	13.55	less-open
	281.66	308.57	9.43	less-open
	282.31	1.42	6.97	less-open
	282.91	344.40	6.52	less-open
	285.68	344.05	5.83	less-open
	286.12	359.77	10.80	less-open
	286.79	317.52	8.45	less-open
	287.86	338.27	7.65	less-open
	289.79	1.39	3.95	less-open
	289.96	316.71	1.16	less-open
290	290.56	108.70	2.44	less-open
	291.31	336.12	9.75	less-open
	294.72	289.89	6.97	less-open
300	303.02	348.43	10.79	open
	303.63	306.56	8.69	less-open
	304.62	344.33	11.77	open
	305.80	332.10	5.73	less-open
	306.43	345.81	6.45	less-open
	306.65	345.38	10.21	less-open
	307.45	343.32	7.40	less-open
	308.88	327.59	8.43	open
	309.18	328.74	13.30	open
	309.48	349.26	11.06	less-open
	309.76	358.07	12.33	less-open
310	310.50	56.79	5.51	less-open
	310.61	16.08	11.43	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar Feature Orientations Interpreted from the MW-13I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
10	18.09	133.74	44.00	less-open
	19.07	24.39	11.05	less-open
	19.67	119.97	82.11	open
20	22.65	49.42	9.82	less-open
	23.32	133.66	9.65	less-open
	24.02	324.70	14.38	less-open
	25.72	30.82	10.12	less-open
	29.83	269.37	13.00	less-open
30	31.26	309.93	24.11	less-open
	32.14	116.74	12.05	less-open
	33.32	13.78	14.66	less-open
	34.28	201.00	13.74	open
	36.81	336.60	7.84	less-open
	37.63	79.53	28.83	open
	37.90	103.24	16.98	less-open
	38.00	318.22	45.41	less-open
	38.12	307.16	41.69	less-open
	38.15	205.11	67.69	less-open
	38.84	293.72	41.49	less-open
	39.27	346.72	12.80	less-open
40	40.31	33.01	4.19	less-open
	43.93	13.19	10.02	less-open
	44.36	32.76	15.99	less-open
	45.26	324.48	14.86	less-open
	47.26	273.88	6.99	less-open
	47.68	293.30	3.16	less-open
	49.05	22.84	11.74	less-open
50	50.39	109.24	15.92	less-open
	50.91	206.86	46.73	less-open
	53.24	283.24	31.23	less-open
	53.61	86.86	6.83	less-open
	56.77	100.25	18.10	less-open
	58.54	326.79	18.64	less-open
	59.05	326.50	20.82	less-open
	59.31	319.49	28.90	less-open
	59.51	313.44	76.54	less-open
60	60.31	319.84	15.68	less-open
	61.62	54.32	7.38	less-open
	61.87	75.44	10.98	less-open
	63.97	321.49	17.83	less-open
70	70.10	22.09	19.25	less-open
	70.79	259.90	6.99	less-open
	72.39	321.65	11.92	less-open
	75.88	132.69	76.53	less-open
80	83.00	355.79	11.63	less-open
	84.62	36.42	8.80	less-open
	84.96	304.60	18.31	less-open
	86.16	283.33	10.10	open
	87.10	325.68	16.94	less-open
	87.39	314.13	12.30	less-open
90	91.77	320.70	11.11	less-open
	91.98	310.80	9.66	less-open
	95.39	29.73	30.47	less-open
	95.64	153.83	20.61	less-open
	95.84	0.67	12.96	less-open
	96.14	18.72	30.81	less-open
	98.50	330.87	22.74	open
	99.46	329.70	26.15	open
100	100.53	284.98	30.35	open
	101.17	321.79	24.77	open
	101.62	283.50	15.79	open
	106.85	143.82	68.70	less-open
	108.62	202.67	15.87	less-open
	109.52	302.05	9.91	less-open
110	110.10	37.17	14.45	less-open
	110.91	343.92	14.47	less-open
	112.34	328.69	16.54	less-open
	112.74	297.32	26.35	less-open
	113.72	342.19	17.05	open
	115.74	121.22	11.13	less-open
	116.34	304.35	18.31	less-open
	119.28	300.43	18.54	less-open
	119.78	100.10	9.46	less-open
120	120.04	305.16	12.64	less-open
	120.45	313.85	14.49	less-open
	120.73	88.99	14.45	less-open
	121.37	316.32	6.01	less-open
	121.62	47.83	10.08	less-open
	122.00	319.89	5.01	open

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	122.46	20.47	10.59	less-open
	123.34	45.57	8.45	less-open
	123.61	45.50	10.74	less-open
	123.82	344.40	13.85	less-open
	124.33	37.62	15.65	less-open
	124.90	82.67	9.86	less-open
	125.75	336.53	12.99	less-open
	126.03	304.36	13.31	open
	126.42	2.56	14.70	less-open
	128.11	331.98	15.75	less-open
	128.65	96.32	13.96	less-open
	129.07	19.90	9.01	less-open
130	130.51	229.49	13.21	less-open
	130.76	326.20	14.02	less-open
	132.60	73.65	21.99	less-open
	133.05	29.88	17.15	less-open
	133.68	319.36	25.91	less-open
	135.26	324.25	19.79	less-open
	136.01	39.70	18.65	less-open
	136.53	0.26	19.65	less-open
	137.62	353.99	12.40	open
	139.49	284.65	16.54	less-open
140	140.45	57.91	11.40	less-open
	141.13	30.16	5.81	less-open
	141.66	75.84	11.50	less-open
	141.99	258.63	9.48	less-open
	142.31	270.09	19.92	less-open
	142.84	343.24	20.63	less-open
	143.60	344.26	22.38	less-open
	144.18	321.81	7.73	less-open
	144.92	7.52	13.74	less-open
	145.82	338.53	20.43	less-open
	146.18	341.58	14.49	less-open
	146.96	249.90	2.18	less-open
	147.45	282.17	22.19	less-open
	148.29	122.17	87.99	less-open
	148.89	119.09	21.33	less-open
	149.94	331.22	11.73	less-open
150	151.26	340.19	22.49	less-open
	151.82	334.62	20.07	less-open
	152.90	9.83	12.21	less-open
	154.35	45.73	10.56	less-open
	154.62	317.37	12.71	less-open
	154.96	293.14	9.08	less-open
	156.07	303.74	17.82	less-open
	156.61	354.43	28.61	less-open
	157.48	301.79	12.39	less-open
	157.91	307.57	10.13	less-open
	159.29	329.39	15.21	less-open
160	160.60	316.41	29.14	less-open
	160.82	271.60	15.73	less-open
	161.64	302.35	19.01	open
	164.10	339.95	11.90	less-open
	165.84	19.59	17.20	less-open
	166.54	3.20	5.74	less-open
	168.10	350.85	10.14	less-open
	168.85	12.19	14.76	less-open
	169.14	306.62	20.51	less-open
170	170.38	273.80	11.07	less-open
	171.32	39.98	16.21	less-open
	171.46	37.30	21.49	less-open
	174.17	322.93	12.86	open
	175.74	109.93	82.16	less-open
	177.36	314.99	12.44	less-open
	178.30	349.03	13.53	less-open
	179.50	305.99	16.15	less-open
180	180.24	126.17	54.92	less-open
	180.59	133.74	39.07	less-open
	180.91	132.27	54.40	less-open
	181.12	290.17	4.79	less-open
	181.82	294.12	18.55	less-open
	181.89	177.04	3.37	less-open
	182.58	326.18	14.49	less-open
	185.16	291.31	10.02	less-open
	185.91	240.63	19.48	less-open
190	193.60	28.27	15.53	less-open
	194.71	12.21	13.77	less-open
	195.33	129.71	12.41	less-open
	197.49	341.58	12.80	less-open

Planar Feature Orientations Interpreted from the MW-13I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	197.86	349.41	18.04	less-open
	198.56	285.33	32.78	less-open
200	201.66	321.99	16.31	less-open
	202.25	330.45	22.29	less-open
	207.71	322.31	17.09	less-open
	208.70	313.75	19.35	less-open
	209.59	335.21	13.05	less-open
210	211.34	302.24	15.91	less-open
	213.30	320.20	18.56	less-open
	214.26	320.48	26.36	less-open
	214.95	331.03	21.39	less-open
	215.60	308.25	33.52	less-open
220	221.52	334.03	34.16	less-open
	222.91	312.07	28.74	less-open
	223.66	265.42	5.27	less-open
	225.44	302.43	53.22	less-open
	226.05	134.85	45.20	less-open
	226.40	311.04	10.26	less-open
	226.85	306.68	13.12	less-open
	227.84	358.46	13.41	less-open
	229.66	1.57	3.93	less-open
230	232.71	314.46	16.97	less-open
	233.52	316.19	13.04	less-open
	235.52	336.26	0.41	less-open
	236.25	306.04	1.15	less-open
	239.46	333.09	16.23	less-open
240	240.38	337.40	19.32	less-open
	241.25	32.35	17.41	less-open
	243.29	311.39	12.24	less-open
	244.47	335.53	16.27	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar Feature Orientations Interpreted from the MW-14SI Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
20	29.30	115.62	30.60	less-open
30	30.44	269.22	1.61	less-open
	31.13	146.24	40.77	less-open
	31.50	166.30	15.76	less-open
	32.07	1.81	9.02	less-open
	33.40	223.57	15.76	less-open
	37.40	324.54	9.34	less-open
	38.42	241.18	9.46	less-open
40	43.52	0.91	16.30	less-open
	45.54	99.13	19.73	less-open
50	52.96	352.44	12.81	less-open
60	60.56	357.83	13.55	less-open
	61.26	233.35	19.38	less-open
	64.84	182.19	8.87	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar Feature Orientations Interpreted from the MW-15DI Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
100	102.08	82.18	9.56	less-open
	102.50	167.26	12.91	less-open
	102.66	159.94	6.76	less-open
110	118.29	95.33	11.06	less-open
	118.43	110.85	16.30	less-open
120	129.92	350.60	16.95	less-open
130	130.55	322.67	27.69	less-open
	131.76	196.72	10.03	less-open
	138.65	145.60	14.93	less-open
140	140.86	277.43	26.05	less-open
	142.61	315.14	9.13	less-open
	142.77	326.55	5.81	less-open
	146.26	325.15	10.22	less-open
150	153.13	151.60	23.02	less-open
160	163.37	90.92	47.63	less-open
	163.46	74.49	9.90	less-open
	163.87	150.11	11.06	less-open
	166.50	34.45	7.24	less-open
	168.80	20.53	8.42	less-open
	169.94	292.01	5.90	less-open
170	170.82	156.66	22.14	less-open
	171.68	355.18	19.90	less-open
	174.73	54.62	17.72	less-open
	174.99	19.68	18.57	less-open
	175.25	59.15	13.38	less-open
	175.67	26.27	19.09	less-open
	177.59	340.90	42.13	less-open
180	180.13	54.17	36.74	less-open
	185.01	175.97	19.12	open
	187.11	65.80	9.56	open
	187.70	234.74	23.43	less-open
	188.69	157.84	18.36	less-open
	188.89	187.00	20.73	less-open
190	192.94	230.75	27.88	less-open
	193.36	211.35	46.77	less-open
	193.93	245.52	40.33	less-open
	194.41	234.22	50.67	less-open
	194.75	345.30	9.84	less-open
	195.16	301.44	17.33	less-open
	195.81	256.89	38.19	less-open
	196.06	248.95	34.70	less-open
	197.20	108.76	13.49	less-open
200	204.67	232.89	27.70	less-open
210	213.97	270.41	12.32	less-open
	214.17	267.72	16.48	less-open
	219.03	344.96	29.17	less-open
220	222.24	190.86	54.32	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar Feature Orientations Interpreted from the MW-16I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
20	20.64	2.83	11.99	open
	21.13	103.1	79.6	less-open
	23.65	145.4	83.3	open
	26.01	337.4	5.8	less-open
30	32.77	155.5	10.1	less-open
	32.94	180.39	69.91	less-open
	33.73	305.81	36.7	less-open
	33.82	192.3	21.4	less-open
	37.03	339.8	11.0	open
	37.46	330.8	7.4	less-open
	37.93	185.8	11.0	less-open
	39.22	211.81	18.82	open
	39.51	214.25	14.49	less-open
40	40.31	323.8	9.1	less-open
	41.28	329.4	28.1	less-open
	44.61	11.7	8.3	open
	45.57	318.8	23.3	less-open
	45.93	313.0	10.3	less-open
	47.31	319.0	10.8	less-open
	48.89	307.0	17.1	open
50	50.38	304.0	13.5	less-open
	51.54	2.0	17.2	less-open
	53.53	343.1	12.1	less-open
	54.05	275.6	22.1	less-open
	54.72	211.0	18.6	less-open
	55.72	344.6	5.8	less-open
	55.80	335.3	11.7	less-open
	55.95	168.4	78.4	less-open
	57.53	141.57	49.29	less-open
	58.56	342.76	9.37	less-open
	58.69	290.8	12.8	less-open
	59.17	274.7	40.3	less-open
60	60.06	300.1	23.7	less-open
	60.47	301.9	2.7	less-open
	60.91	342.0	18.8	less-open
	61.58	335.3	16.3	less-open
	63.56	334.3	7.4	less-open
	63.95	321.7	13.8	less-open
	64.07	128.2	79.5	less-open
	66.05	340.7	8.3	less-open
	67.23	21.7	15.8	less-open
	69.08	325.5	13.7	less-open
	69.17	322.0	12.5	less-open
70	70.30	288.4	10.0	less-open
	70.37	112.5	2.6	less-open
	70.71	328.3	10.5	less-open
	71.50	329.0	21.1	less-open
	71.97	357.2	8.9	less-open
	72.47	49.3	12.3	less-open
	72.88	36.8	19.8	less-open
	73.16	342.1	17.3	less-open
	75.26	312.4	5.3	less-open
	76.58	9.1	22.3	less-open
	77.59	132.9	20.0	less-open
	79.58	267.6	19.6	less-open
80	80.09	347.1	14.6	less-open
	81.25	354.3	26.9	less-open
	81.60	327.5	15.0	less-open
	82.15	295.0	13.8	less-open
	83.59	10.53	8.2	less-open
	84.21	68.83	14.13	less-open
	85.24	346.9	16.9	less-open
	86.08	334.8	22.5	less-open
	86.34	305.1	14.0	less-open
	89.57	321.1	13.1	less-open
90	92.63	267.8	17.2	less-open
	94.26	298.38	24.52	open
	95.36	308.58	5.47	less-open
	96.54	352.1	12.5	less-open
	97.28	277.3	13.4	less-open
	97.74	11.2	13.3	open
	98.75	10.8	5.6	less-open
	99.08	243.7	21.0	less-open
	99.76	217.2	36.2	open
100	100.57	348.8	11.5	less-open
	100.89	343.1	12.3	less-open
	103.09	355.1	23.7	less-open
	103.67	230.7	7.0	less-open
	104.23	0.9	6.0	less-open
	105.70	164.4	13.9	less-open
	106.69	116.7	10.5	less-open

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	106.98	287.8	3.4	less-open
	107.28	110.9	53.7	less-open
	108.13	306.7	20.1	less-open
	108.59	316.3	2.6	less-open
	108.88	337.3	13.9	less-open
	109.41	338.0	15.9	less-open
	109.59	333.3	15.7	less-open
	109.89	350.5	17.0	less-open
110	111.5	330.8	16.5	less-open
	112.58	343.2	13.9	less-open
	114.18	322.3	54.8	less-open
	114.74	309.6	26.0	less-open
	115.66	352.9	21.4	less-open
	116.26	198.3	73.2	less-open
	116.44	202.1	20.8	less-open
	118.59	127.2	80.8	less-open
120	120.62	238.9	16.2	less-open
	123.03	3.8	13.0	less-open
	123.55	331.8	2.7	less-open
	127.17	320.3	6.0	less-open
	128.17	16.5	0.5	less-open
	128.69	194.4	55.8	less-open
	129.37	217.5	82.6	less-open
130	130.03	7.3	15.8	less-open
	130.23	31.2	8.6	less-open
	131.35	18.1	11.6	less-open
	132.26	158.94	3.77	less-open
	132.81	257.86	11.47	less-open
	133.48	90.0	3.4	less-open
	134.07	257.6	29.0	less-open
	134.44	357.2	22.7	less-open
	137.1	117.1	17.2	less-open
	137.92	345.6	12.3	less-open
	138.47	332.0	13.3	less-open
140	140.83	208.1	11.3	less-open
	142.77	39.7	34.9	less-open
	143.09	266.1	4.0	less-open
	143.38	318.92	61.35	less-open
	143.56	319.89	63.15	less-open
	143.81	304.4	62.2	less-open
	144.89	50.5	11.2	less-open
	145.77	341.1	21.1	less-open
	146.35	340.3	14.9	less-open
	146.93	109.5	33.5	less-open
	147.03	315.7	25.5	less-open
	148.02	168.5	32.8	less-open
	148.49	183.6	7.9	less-open
	149.69	12.4	19.8	less-open
150	150.56	338.39	7.55	less-open
	151.47	317.5	17.47	less-open
	152.85	205.6	7.4	less-open
	153.59	325.9	10.9	less-open
	157.13	145.8	12.7	less-open
	157.99	128.6	3.5	less-open
	159.39	86.4	6.7	less-open
	159.84	109.9	3.7	less-open
160	160.71	114.0	17.7	less-open
	161.63	328.7	13.4	less-open
	162.06	243.8	77.3	less-open
	163.17	315.5	27.6	less-open
	163.87	343.5	10.3	less-open
170	173.25	227.0	3.6	less-open
	174.89	9.7	18.2	less-open
	176.11	344.5	14.3	less-open
	179.39	17.0	6.9	less-open
180	181.87	119.5	2.4	less-open
	182.34	15.8	4.8	less-open
	183.05	231.4	8.0	less-open
	183.5	184.3	6.9	less-open
	184.48	141.7	4.0	less-open
	184.86	340.0	9.4	less-open
	185.41	118.9	19.0	less-open
	185.81	6.7	18.4	less-open
	187.16	133.0	80.3	less-open
190	190.26	24.7	12.1	less-open
	196.45	1.5	13.5	less-open
200	200.4	302.9	10.1	less-open
	200.88	172.3	1.6	less-open
	201.25	9.4	7.6	less-open
	201.48	68.5	23.7	less-open
	201.77	49.5	11.4	less-open

Planar Feature Orientations Interpreted from the MW-16I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	202.2	356.4	20.5	less-open
	203.16	18.7	10.4	less-open
	203.67	354.0	13.0	less-open
	208.37	127.4	9.2	less-open
	208.99	28.1	8.1	less-open
	209.43	355.7	15.9	less-open
	209.69	333.8	16.3	less-open
	209.86	323.8	3.4	less-open
210	210.19	326.3	17.3	less-open
	211.16	63.8	2.9	less-open
	211.49	358.8	3.8	less-open
	212.33	343.5	16.5	less-open
	213.18	168.4	5.0	less-open
	213.35	311.4	9.7	less-open
	213.72	352.1	2.2	less-open
	213.86	314.4	11.4	less-open
	214.23	264.7	8.0	less-open
	215.88	56.3	6.0	less-open
	218.32	342.8	4.1	less-open
	219.72	76.4	4.9	less-open
220	220.52	88.77	6.25	less-open
	221.34	296.67	9.07	less-open
	221.59	298.4	2.3	less-open
	221.85	27.9	12.9	less-open
	222.01	333.7	12.3	less-open
	222.23	7.19	6.5	less-open
	222.39	315.48	9.34	less-open
	223.17	218.1	5.0	less-open
	223.94	352.7	73.1	less-open
	225.64	8.4	35.4	less-open
	226.11	293.0	9.0	less-open
	227.16	359.9	6.8	less-open
	227.76	24.9	17.9	less-open
	228.23	101.5	14.3	less-open
	228.79	80.2	39.1	less-open
	229.36	191.6	15.6	less-open
230	232.95	12.2	5.9	less-open
	233.3	303.6	3.9	less-open
	233.52	0.1	11.1	less-open
	233.63	3.08	12.18	less-open
	233.87	265.18	28.95	less-open
	234.35	355.5	10.1	less-open
	234.83	12.7	8.1	less-open
	235.53	196.7	2.0	less-open
	236.23	178.5	4.9	less-open
	236.74	87.1	2.9	less-open
	238.34	19.9	9.5	less-open
240	240.18	169.1	6.2	less-open
	240.38	190.4	4.5	less-open
	240.96	104.3	9.2	less-open
	241.51	352.4	14.1	less-open
	242.01	84.8	26.0	less-open
	242.76	325.9	13.1	open
	243.2	338.9	21.3	open
	243.39	340.5	20.3	open
	243.8	336.7	14.4	open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar Feature Orientations Interpreted from the MW-17I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
10	19.49	41.30	10.74	less-open
20	20.17	4.29	7.38	less-open
	21.17	22.54	9.92	less-open
	21.49	331.29	10.34	less-open
	21.66	349.48	11.17	less-open
	22.65	214.44	70.83	less-open
	23.55	342.73	18.11	open
	24.38	100.28	18.09	less-open
	25.12	113.00	25.26	less-open
	26.23	312.99	21.13	less-open
	26.74	286.94	32.85	less-open
	26.98	299.24	25.61	less-open
	28.58	342.63	8.77	less-open
	29.18	176.92	77.18	less-open
	29.33	286.65	19.84	less-open
	29.59	102.07	35.27	less-open
30	30.46	300.42	22.64	less-open
	30.68	179.95	73.26	less-open
	30.81	129.38	19.97	less-open
	30.86	184.10	79.26	less-open
	30.96	300.57	45.14	less-open
	31.93	283.26	64.02	less-open
	32.33	272.45	60.95	less-open
	32.59	249.76	22.23	less-open
	33.35	270.97	29.91	less-open
	33.51	285.19	29.23	less-open
	34.77	198.53	13.17	less-open
	35.19	174.85	7.78	less-open
	36.24	264.22	11.03	less-open
	36.50	211.00	78.27	less-open
	37.59	147.66	62.96	less-open
	37.81	176.16	65.50	less-open
	38.35	283.35	19.85	less-open
	39.47	350.64	12.59	less-open
40	40.01	32.12	39.96	less-open
	41.47	9.17	7.89	less-open
	43.07	308.94	27.94	less-open
	43.66	321.67	26.69	less-open
	45.32	301.99	10.87	less-open
	47.88	228.44	10.79	less-open
	48.60	148.55	29.12	less-open
50	50.84	192.87	56.44	less-open
	53.07	170.32	68.66	less-open
	53.57	25.19	10.54	less-open
	54.83	356.28	13.11	less-open
	56.15	32.46	10.31	less-open
	56.65	64.54	11.45	less-open
	57.15	335.86	12.50	less-open
	57.75	194.14	20.20	less-open
	58.44	193.60	45.34	less-open
60	60.13	177.49	71.42	less-open
	60.49	307.63	63.55	less-open
	60.57	342.41	10.05	less-open
	62.97	107.36	46.14	less-open
	63.41	32.58	4.12	less-open
	63.89	134.94	77.42	less-open
	64.26	274.92	14.17	less-open
	64.96	312.77	16.11	less-open
	65.74	332.61	22.82	less-open
	66.37	337.10	22.49	less-open
	66.70	349.06	15.22	less-open
	67.26	50.50	2.75	less-open
	67.57	338.41	15.36	less-open
	69.47	330.25	16.12	less-open
	69.99	146.86	39.43	less-open
70	71.38	60.85	25.45	less-open
	74.51	81.67	60.95	less-open
	76.50	88.80	22.64	less-open
80	82.49	10.67	11.86	less-open
	86.30	339.52	8.96	less-open
	87.44	293.97	6.03	less-open
	89.64	42.00	10.04	less-open
90	91.46	355.61	34.41	less-open
	92.81	16.31	19.23	less-open
	93.31	9.99	26.27	less-open
	95.38	17.51	1.34	less-open
	96.97	85.51	26.40	less-open
	97.42	206.82	30.88	less-open
	99.85	33.90	53.04	less-open

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
100	100.37	320.12	30.70	less-open
	101.72	346.09	14.52	less-open
	102.11	324.54	27.12	less-open
	103.38	353.57	12.26	less-open
	103.79	338.92	10.03	less-open
	104.12	326.37	10.81	less-open
	109.88	287.14	11.72	open
110	110.36	251.34	32.97	less-open
	113.05	17.85	74.88	less-open
	113.10	7.60	26.26	open
	114.66	292.49	23.37	open
	116.67	346.31	4.37	less-open
	117.35	213.31	69.10	less-open
120	122.20	313.73	57.24	less-open
	123.59	281.80	18.29	less-open
	128.30	115.60	7.62	less-open
	128.57	162.03	14.55	less-open
	129.61	156.75	42.40	less-open
130	130.70	329.69	14.90	less-open
	131.83	0.08	7.70	less-open
	133.27	24.72	32.42	less-open
140	143.61	329.92	26.18	less-open
	148.93	256.29	45.79	less-open
150	155.13	300.01	15.95	less-open
	155.89	347.60	24.83	less-open
	156.56	353.73	20.02	less-open
	157.94	45.75	36.33	less-open
	159.55	197.48	33.47	less-open
160	162.27	283.76	18.90	less-open
	164.73	346.95	14.39	less-open
	165.26	284.21	16.51	less-open
	168.02	206.99	2.81	less-open
170	172.45	115.21	84.54	open
	178.02	110.21	75.96	less-open
	179.26	220.96	44.30	less-open
180	183.75	6.41	22.83	less-open
	184.77	351.36	6.30	less-open
	186.49	103.87	70.56	less-open
	186.64	114.58	37.87	less-open
190	195.30	240.46	49.50	less-open
	195.56	84.91	13.90	less-open
	195.76	92.84	40.18	less-open
	198.23	120.51	74.50	less-open
200	205.16	99.28	50.35	less-open
	205.49	99.62	53.58	less-open
	208.19	286.53	75.26	less-open
220	222.33	330.33	25.28	less-open
	225.43	267.59	25.88	less-open
230	230.14	123.48	32.96	less-open
	233.54	163.64	39.59	less-open
	234.23	142.37	50.29	less-open
240	244.69	272.14	17.21	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar Feature Orientations Interpreted from the MW-18I Acoustic Televiewer Log
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South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
20	22.08	341.28	9.91	less-open
	22.47	331.95	27.28	less-open
	22.77	343.28	5.35	less-open
	24.73	259.07	13.89	less-open
	25.3	15.15	19.66	open
	26.73	341.5	12.1	less-open
	27.29	107.9	12.1	less-open
	29.51	283.9	24.7	less-open
	29.75	293.4	20.9	less-open
30	30.02	291.76	10.5	less-open
	34.4	244.5	22.69	less-open
	36.55	19.6	5.6	less-open
40	44.87	4.9	18.3	less-open
	45.90	128.9	80.8	less-open
	48.38	324.5	23.0	less-open
50	53.5	331.22	9.18	less-open
	53.97	112.53	83.26	less-open
	59.83	116.8	84.4	less-open
60	65.80	305.4	19.1	less-open
	65.96	257.4	19.7	less-open
	67.16	184.4	28.8	less-open
	67.67	10.1	10.5	less-open
70	75.85	201.6	74.5	less-open
	79.27	312.6	9.8	open
	79.57	348.6	9.9	less-open
80	81.91	228.1	14.0	less-open
	81.99	25.5	5.7	less-open
	82.85	264.5	7.1	less-open
	88.22	332.7	15.9	less-open
	89.38	7.9	21.8	less-open
90	97.77	303.9	10.2	less-open
	99.10	253.9	8.1	less-open
	99.93	326.34	9.6	less-open
100	102.84	219.37	40.83	less-open
	104.36	183.7	27.2	less-open
110	112.85	294.1	7.0	less-open
	117.82	287.5	18.8	less-open
	117.95	269.5	12.3	less-open
	118.52	309.6	58.5	less-open
	118.58	144.7	15.4	less-open
120	125.38	178.7	15.1	less-open
	127.36	75.7	6.4	less-open
	128.02	199.4	17.6	less-open
130	130.03	32.9	13.1	less-open
	130.77	314.1	12.2	less-open
	134.46	279.3	48.9	less-open
	135.21	274.3	28.1	less-open
140	143.41	138.8	14.8	less-open
	144.24	115.7	5.4	less-open
	147.65	334.9	16.0	less-open
150	150.68	255.0	18.6	less-open
	155.31	136.6	8.1	less-open
	159.58	325.8	7.2	less-open
160	161.59	126.9	16.2	less-open
	163.15	311.6	13.8	open
	163.36	307.4	6.9	less-open
180	182.44	288.9	14.9	less-open
	182.93	144.9	16.2	less-open
	183.41	224.7	22.1	less-open
	184.31	211.9	25.8	less-open
	187.16	312.5	6.5	less-open
190	190.20	191.6	28.1	less-open
	194.31	357.5	5.1	less-open
	194.82	199.5	25.38	less-open
200	200.7	178.61	3.73	less-open
	201.37	164.6	20.2	less-open
210	211.50	301.4	24.1	less-open
	215.54	309.3	23.4	less-open
220	221.33	159.1	27.0	less-open
	228.70	240.0	33.8	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

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South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
50	55.72	259.5	14.4	less-open
	56.34	326.77	13.3	less-open
	56.79	358.24	9.3	less-open
	56.99	304.63	12.54	less-open
	57.63	297.42	15.17	less-open
	59.28	313.22	11.2	less-open
	59.32	319.52	10.94	less-open
	59.49	320.0	15.2	less-open
60	60.25	319.7	17.8	less-open
	61.57	320.8	9.6	less-open
	61.65	310.1	9.1	less-open
	63.16	299.73	14.7	less-open
	63.9	287.99	18.31	less-open
	64.30	277.7	12.4	less-open
	64.74	310.1	11.4	open
	66.62	33.2	6.3	less-open
	68.24	332.7	9.1	less-open
	68.79	324.13	12.8	less-open
	69.02	306.81	12.61	less-open
	69.33	295.2	11.9	less-open
70	70.06	313.6	13.6	less-open
	70.35	328.5	8.8	less-open
	72.14	329.9	9.5	less-open
	72.61	22.5	13.0	less-open
	72.78	301.0	11.6	less-open
	73.69	303.4	12.5	less-open
	74.16	297.3	15.6	less-open
	75.20	326.4	24.6	less-open
	75.77	297.8	13.2	less-open
	76.05	311.6	19.4	less-open
	78.17	316.3	17.0	less-open
	78.54	301.4	12.7	less-open
	78.69	327.1	6.7	less-open
	79.18	318.9	14.3	less-open
80	81.37	333.57	13.58	less-open
	82.74	305.13	11.51	open
	82.99	306.6	11.3	open
	83.40	329.9	11.3	less-open
	84.13	338.2	10.0	less-open
	84.32	313.7	10.7	less-open
	85.21	314.7	10.6	less-open
	85.58	307.9	14.7	less-open
	85.76	320.7	18.3	less-open
	85.94	332.8	11.3	less-open
	86.37	313.1	4.8	less-open
	87.15	323.7	9.0	less-open
	87.96	325.8	7.0	less-open
	88.49	330.6	13.8	less-open
	88.57	316.1	9.9	less-open
	89.12	327.7	13.8	less-open
	89.80	316.7	10.7	less-open
90	91.11	278.5	6.7	less-open
	92.65	142.9	3.9	less-open
	93.13	249.2	7.7	less-open
	93.68	324.9	5.6	less-open
	94.88	104.1	7.8	less-open
	95.34	326.1	15.0	less-open
	96.22	322.2	7.6	less-open
	96.48	351.6	12.4	less-open
	96.60	292.8	14.6	less-open
	97.01	324.4	10.2	less-open
	97.09	334.2	9.2	less-open
	97.28	312.8	14.3	less-open
	98.10	326.2	9.5	less-open
	98.32	318.0	13.0	less-open
	99.63	326.07	16.77	less-open
	99.8	340.4	10.92	less-open
100	100.56	339.7	11.8	less-open
	101.15	43.6	10.7	less-open
	101.98	5.2	17.1	less-open
	102.59	336.4	13.3	less-open
	102.68	335.8	13.5	less-open
	103.57	13.6	20.4	less-open
	103.82	46.6	7.1	less-open
	104.98	6.1	8.4	less-open
	105.83	352.9	16.6	less-open
	106.88	332.9	10.2	less-open
	107.02	338.2	10.4	less-open
	107.69	306.9	13.9	open

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	108.24	325.0	15.4	less-open
	108.92	342.0	10.1	less-open
110	111.10	283.5	6.3	less-open
	111.58	294.8	2.7	less-open
	112.91	313.2	8.9	less-open
	114.42	31.6	16.0	less-open
	114.71	0.1	10.8	less-open
	115.9	13.2	8.8	less-open
	117.13	122.5	68.0	less-open
	117.27	324.1	9.8	less-open
	117.55	310.0	66.1	less-open
	117.65	323.3	13.2	less-open
	118.28	282.4	13.7	less-open
	118.64	305.3	68.2	less-open
	119.75	335.3	44.0	less-open
120	120.24	162.6	38.2	less-open
	120.38	13.7	15.8	less-open
	120.79	326.9	24.9	less-open
	122.19	168.7	33.9	less-open
	122.78	343.7	24.3	less-open
	123.91	318.0	17.9	less-open
	123.97	275.9	60.1	less-open
	124.5	318.4	14.6	less-open
	125.25	318.7	11.5	less-open
	125.54	318.0	8.9	less-open
	125.94	325.3	15.3	less-open
	126.18	323.4	17.2	less-open
	126.61	314.8	10.7	less-open
	127.74	324.5	8.8	less-open
	129.29	313.8	6.3	less-open
130	130.65	323.5	14.6	less-open
	131.84	342.2	14.4	less-open
	132.92	309.18	14.3	less-open
	135.46	318.44	5.48	less-open
	135.61	68.2	17.8	less-open
	137.56	317.1	16.2	less-open
	138.16	320.0	13.6	less-open
	138.61	107.4	4.6	less-open
	139.04	8.8	13.2	less-open
140	140.48	291.7	13.2	less-open
	140.85	303.1	14.2	open
	143.81	333.0	8.3	less-open
	144.79	161.2	55.2	less-open
	145.78	315.09	23.75	less-open
	147.46	302.95	24.2	less-open
	147.69	319.0	18.7	less-open
	148.61	336.2	11.2	less-open
	148.99	331.5	9.6	less-open
	149.58	307.3	7.9	less-open
150	150	331.5	7.9	less-open
	150.77	330.0	13.6	less-open
	152.2	320.7	17.2	less-open
	153.82	39.4	5.9	less-open
	154.41	314.0	26.5	less-open
	154.92	278.0	40.2	less-open
	155.59	1.6	11.2	less-open
	157.48	335.4	14.1	less-open
	158.15	340.3	17.4	less-open
	159.65	319.0	25.8	less-open
160	160.72	320.6	4.7	less-open
	161.09	306.6	18.6	less-open
	161.58	343.9	17.1	less-open
	161.76	291.7	8.3	less-open
	162.52	330.5	30.2	less-open
	163.63	144.4	4.0	less-open
	163.88	176.9	2.6	less-open
	165.64	323.0	8.7	less-open
	166.3	312.9	11.5	less-open
	166.67	319.5	14.8	less-open
	168.04	320.4	11.8	less-open
	168.11	322.2	11.1	less-open
	168.44	333.4	17.4	less-open
	169.69	317.9	8.7	less-open
170	170.07	318.2	7.8	less-open
	172.36	333.2	16.2	less-open
	173.04	334.0	17.8	less-open
	173.13	303.4	18.6	less-open
	173.36	325.6	28.2	less-open
	173.71	62.3	31.7	less-open

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	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	174.92	133.8	69.7	open
	175.12	302.4	11.2	less-open
	176.8	335.9	12.5	less-open
	178.49	336.0	10.7	less-open
	178.54	332.3	10.7	less-open
	178.8	336.9	14.7	less-open
	179.15	294.6	12.4	less-open
	179.45	172.4	71.2	less-open
	179.75	308.0	12.5	less-open
180	181.3	335.8	10.0	less-open
	181.76	4.9	13.7	less-open
	182.32	282.5	14.9	less-open
	183.67	195.9	7.3	less-open
	185.82	326.7	9.9	less-open
	186.08	316.2	68.3	less-open
	186.32	292.2	22.4	less-open
	186.98	334.3	13.5	less-open
	188.76	324.2	9.4	less-open
	189.33	320.9	13.5	less-open
190	191.5	321.4	9.5	less-open
	192.44	313.2	14.2	less-open
	193.7	311.7	19.0	less-open
	195.39	327.3	13.9	less-open
	196.42	337.2	12.8	less-open
	196.84	347.8	13.2	less-open
	198.48	307.9	13.9	less-open
	199.02	302.44	13.75	less-open
	199.77	308.11	14.66	less-open
200	200.13	314.2	7.0	less-open
	204.05	117.2	79.8	open
	204.26	325.9	9.6	less-open
	204.89	326.94	11.81	less-open
	207.26	317.61	17.73	less-open
	207.64	319.4	16.3	less-open
	208.96	318.0	13.2	less-open
	209.64	332.4	13.4	less-open
210	210.57	340.8	46.4	less-open
	210.72	322.7	18.2	less-open
	211.05	335.4	22.7	less-open
	211.62	339.2	18.5	less-open
	211.78	329.6	35.9	less-open
	211.94	126.3	47.2	less-open
	212.26	209.8	1.9	less-open
	214.48	333.9	15.8	less-open
	215.75	336.1	16.7	less-open
	216.42	67.54	10.95	less-open
	217.2	359.41	9.35	less-open
	217.53	3.7	7.8	less-open
	217.82	344.3	14.4	less-open
	218.3	128.3	76.5	less-open
	219.36	327.9	18.8	less-open
	219.98	320.2	15.8	less-open
220	220.21	318.1	12.9	less-open
	221.38	314.6	20.1	less-open
	221.57	328.2	21.1	less-open
	222	325.1	19.0	less-open
	222.32	324.4	11.4	less-open
	223.31	310.8	12.4	less-open
	224.3	325.3	56.4	less-open
	225.46	348.8	5.5	less-open
	225.88	8.0	6.0	less-open
	226.66	328.9	7.7	less-open
	228.1	324.0	8.5	less-open
230	230.68	4.9	14.5	less-open
	230.76	325.3	13.7	less-open
	231.52	312.1	20.4	less-open
	231.7	329.0	16.5	less-open
	232.94	319.7	10.9	less-open
	233.02	318.6	10.1	less-open
	233.54	313.9	11.1	less-open
	234.79	2.35	7.03	less-open
	235.21	316.26	11.02	less-open
	236.69	321.6	13.4	less-open
	237.26	329.3	14.0	less-open
	238.06	312.1	11.8	less-open
	239.71	312.6	22.3	less-open
240	240.13	297.5	16.7	less-open
	240.39	305.2	17.6	less-open

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	241.34	319.0	15.7	less-open
	242.2	283.1	11.8	less-open
	242.88	304.61	10.13	less-open
	243.11	311.5	8.31	less-open
	243.67	146.1	53.5	less-open
	243.78	144.5	51.5	less-open
	243.9	340.6	40.8	less-open
	244.56	287.8	10.0	less-open
	245.64	314.0	10.1	less-open
	246.31	327.7	14.3	less-open
	247.52	307.6	24.1	less-open
	247.57	270.8	23.2	less-open
	248.86	311.7	11.1	open
	249.13	317.77	16.8	less-open
	249.91	6.28	19.72	less-open
250	251.11	316.83	13.77	less-open
	251.44	123.84	78.43	less-open
	253.33	309.56	9.22	less-open
	253.78	304.52	24.16	less-open
	254.71	302.64	23.48	less-open
	254.81	330.05	30	less-open
	255.32	308.28	43.73	less-open
	255.33	296.13	21.31	less-open
	255.79	316.62	17.97	less-open
	257.41	332.81	13.11	less-open
	258.44	318.68	11.75	less-open
	258.65	312.43	8.49	less-open
260	260.05	333.91	14.12	less-open
	260.9	356	12.22	less-open
	261.86	352.29	10.04	less-open
	262.21	357.15	12.12	less-open
	262.59	336.45	14.35	less-open
	262.7	358.35	13.12	less-open
	264.22	271.67	15.99	less-open
	264.81	359.34	44.48	less-open
	265.12	348.9	6.79	less-open
	265.59	329.86	15.91	less-open
	267.32	332.74	16.81	less-open
	268.47	274.89	10.61	less-open
270	270.33	251.09	22.14	less-open
	271.66	334.58	11.5	less-open
	272.24	16.92	6.8	less-open
	275.59	334.09	15.79	less-open
	275.73	340.15	15.97	less-open
	275.93	327.16	14.39	less-open
	276.82	131.85	8.68	less-open
	277.55	330	13.3	less-open
	278.59	281.66	16.27	less-open
	279.09	307.07	9.1	less-open
	279.38	319.44	34.81	less-open
280	280.57	315.78	18.91	less-open
	281.14	302.48	19.24	less-open
	281.44	292.37	11.46	less-open
	282.15	306.06	22.13	less-open
	283.16	318.69	58.3	less-open
	283.74	322.25	30.6	less-open
	284.28	82.33	19.89	less-open
	285.72	333.78	11.76	less-open
	286.52	313.22	17.51	less-open
	286.69	313.31	18.33	less-open
	288.68	348.98	9.56	less-open
290	292.08	306.81	8.58	less-open
	294.2	313.91	10.23	less-open
	295.02	108.77	37.59	less-open
	295.58	16.51	63.71	less-open
	295.63	113.49	60.27	less-open
	296.1	10.87	46.02	less-open
	296.54	200.1	22.66	less-open
	298.05	301.79	15.86	less-open
	298.67	316.18	14.47	less-open
	298.99	330.97	18.05	less-open
	299.14	319.11	18.06	less-open
	299.46	5.21	11.04	less-open
	299.93	345.55	10.06	less-open
300	300.39	359.28	13.91	less-open
	300.51	12.96	16.11	less-open
	302.8	341.39	11.69	less-open
	303	346.51	9.89	less-open

Planar Feature Orientations Interpreted from the MW-19I Acoustic Televiewer Log
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South Plainfield, New Jersey
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	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	304.93	311.13	15.39	less-open
	305.55	285.77	8.82	less-open
	306.75	317.34	73.7	less-open
	307.21	330.99	78.35	less-open
	308.38	339.77	15.92	less-open
	309.15	340.28	17.51	less-open
	309.76	316.88	12.74	less-open
310	311.99	319.27	11.73	less-open
	312.37	311.85	15.46	less-open
	313.18	295.96	20.21	less-open
	313.59	296.32	16.47	less-open
	313.84	323.17	15.78	less-open
	315.94	288	34.57	less-open
	318.19	123.27	77.66	open
	318.48	316.03	13.21	less-open
	318.64	314.29	11.65	less-open
320	320.42	322.88	17	less-open
	320.76	322.9	29.14	less-open
	321.74	328.37	36.83	less-open
	322.22	317.75	14.79	less-open
	322.78	1.83	11.47	less-open
	324.67	317.11	18.99	less-open
	324.79	349.17	13.05	less-open
	327.16	309.82	11.66	less-open
	327.82	353.89	20.02	less-open
330	330.54	341.61	10.18	less-open
	332.63	322.53	15.36	less-open
	332.8	316.77	16.8	less-open
	332.98	314.35	58.55	less-open
	334.29	311.11	15.06	less-open
	334.69	316.89	16.38	less-open
	336.43	314.33	12.82	less-open
	337.02	306.3	13.29	less-open
	339.92	348	52.35	less-open
340	341.31	313.33	12.02	less-open
	342.25	315.45	19.21	less-open
	343.13	210.45	14	less-open
	343.56	309.04	10.44	less-open
	344.53	305.44	20.29	less-open
	345.45	347.9	9.7	less-open
	347.69	127.16	4.84	less-open
	349.33	3.4	43.34	less-open
350	351.23	358.99	7.04	less-open
	352.22	220.91	9.79	less-open
	353.41	334.41	4.84	less-open
	354.56	317.2	15.49	less-open
	355.52	344.77	14.09	less-open
	356.44	323.54	16.4	less-open
	358.33	324.52	33.87	less-open
360	360.89	313.35	14.46	less-open
	361.8	301.3	19.1	less-open
	362.47	346.4	19.65	less-open
	363	354.6	11.07	less-open
	363.09	327.54	13.5	less-open
	363.98	337.51	9.7	less-open
	365.95	244.34	26.66	less-open
	367.18	323.72	13.03	less-open
	368.14	332.69	10.96	less-open
	369.28	350.47	17.4	less-open
370	370.79	264.24	56.03	less-open
	371.45	319.14	11.52	less-open
	372.66	341.7	14.21	less-open
	373.2	279	31.25	less-open
	373.81	350.01	14.1	less-open
	374.24	349.82	5.92	less-open
	375.25	303.22	31.54	less-open
	375.52	310.37	13.06	less-open
	378.48	304.41	13.52	less-open
	378.78	305.36	15.25	open
380	381.21	266.89	13.38	less-open
	382	344.83	16.71	less-open
	383.04	296.65	13.36	less-open
	385.79	353.5	8.9	less-open
	386.41	277.61	5.22	less-open
	386.91	319.36	17.21	less-open

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	387.32	342.47	11.69	less-open
	388.69	339.9	9.97	less-open
	389.35	293.39	13.86	less-open
390	390.74	184.81	6.12	less-open
	391.43	306.41	29.54	less-open
	393.22	352.6	24.29	less-open
	394.08	308.85	1.46	less-open
	394.72	247.35	4.75	less-open
	395.65	305.22	15.62	less-open
	397.11	292.21	12.53	less-open
	398.55	314.77	34.23	less-open
	399.25	322.58	23.44	less-open
400	401.14	200.92	32.74	less-open
	402.21	320.91	29.87	less-open
	403.49	354.87	8.43	less-open
	403.88	297.85	16.66	less-open
	405.06	253.64	28.26	less-open
	405.63	327.23	23.01	less-open
	409.52	325.46	22.07	less-open
410	410.03	323.27	16.09	open
	412.58	332.13	31.34	less-open
	413.38	332.39	23.79	less-open
	415.98	318.34	37.23	less-open
	416.76	326.38	10.03	less-open
	418.46	288.13	23.51	less-open
	418.63	301.78	23.42	less-open
	419.13	308.74	16.29	less-open
420	422.44	343.09	2.92	less-open
	424.24	284.98	15.6	less-open
	424.91	36.3	1.32	less-open
	425.64	318.86	15.61	less-open
	426.65	352.95	6.71	less-open
	427.73	33.06	2.81	less-open
	428.5	357.48	9.41	less-open
430	430.04	35.25	9.47	less-open
	430.5	58.26	3.91	less-open
	432.34	313.49	16.07	less-open
	433.09	320.71	12.42	less-open
	433.58	24.98	2.37	less-open
	433.8	341.72	6.47	less-open
	435.09	331.53	9.55	less-open
	435.55	3.34	4.42	less-open
	438.31	249.49	11.4	less-open
	438.92	119.4	5.34	less-open
440	440.17	108.61	0.9	less-open
	440.75	326.26	13.49	less-open
	442.43	324.17	7.75	less-open
	444.78	253.87	6.39	less-open
	446.59	289.33	1.69	less-open
	447.23	332.02	15.63	less-open
	447.48	314.38	11.73	less-open
	448.26	297.18	12.57	less-open
	449.01	20.98	12.47	less-open
	449.74	33	2.71	less-open
450	450.71	326.91	13.83	less-open
	451.63	357.24	1.55	less-open
	452.48	356.33	12.1	open
	453.59	11.87	4.82	less-open
	454.52	279.92	16.09	less-open
	456.89	335.28	29.12	less-open
	457.56	8.39	1.3	less-open
	457.74	297.38	3.7	less-open
	458.41	235.96	15.21	less-open
	458.78	343.02	7.99	less-open
	458.96	335.55	5.04	less-open
460	460.1	42.57	16.19	less-open
	460.8	12.12	20.76	less-open
	461.33	52.06	17.8	less-open
	461.59	13.4	4.16	less-open
	461.73	345.23	5.23	less-open
	462.95	127.37	44.22	less-open
	463.22	125.34	31.05	less-open
	464.05	352.73	2.32	less-open
	465.07	70.88	6.55	less-open
	465.83	29.57	4.19	less-open

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	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	466.78	4.48	8.56	less-open
	468.18	18.99	41.7	less-open
470	470.61	328.14	8.76	less-open
	472.4	138.54	9.23	less-open
	476.55	285.35	12.48	less-open
	478.36	247	13.51	less-open
	479.39	356.3	14.92	less-open
480	480.6	7.98	21.91	open
	488.43	312.27	10.56	open
490	490.81	270.07	21.51	less-open
	491.63	93.01	6.66	less-open
	493.25	277.98	19	less-open
	494.04	29.1	9.53	less-open
	496.96	192.88	4.13	less-open
500	500	358.86	11.12	less-open
	504.68	326.03	20.25	less-open
	507.28	312.19	20.28	less-open
	507.63	333.94	5.29	less-open
	508.15	353.26	12.98	less-open
510	514.85	265.05	7.64	less-open
	519.81	204.57	61.08	less-open
520	521.67	174.3	12.98	less-open
	525.25	264.93	5.49	less-open
	525.34	257.95	5.22	less-open
	526.21	345.92	15.86	less-open
530	533.46	353.63	5.17	less-open
	537.15	323.48	22.86	less-open
	539.85	320.24	15.85	less-open
540	540.6	304.42	18.27	less-open
	542.91	323.1	18.55	less-open
	544.59	343.13	16.18	less-open
	546.78	126.56	0.86	less-open
	547.98	126.85	18.75	less-open
550	552.78	351.71	12.8	less-open
	556.31	57.41	4.43	less-open
	557.55	278	35.84	less-open
	557.66	330.27	16.59	less-open
560	562.3	149.29	34.03	less-open
	566.48	5.12	11.32	less-open
	567.43	312.36	9.4	less-open
570	573.56	39.71	59.42	less-open
	574.93	277.08	20.59	less-open
	578.33	354.54	13.63	less-open
580	583.26	232.84	8.67	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

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	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
20	27.32	317.4	9.9	less-open
30	30.39	315.7	8.1	less-open
	31.04	326.3	14.8	less-open
	31.72	333	11.07	less-open
	33.22	286.62	11.74	less-open
	33.37	319.93	8.34	less-open
	33.97	289.56	11.81	less-open
	35.51	295.61	7.92	less-open
	36.3	332.7	15.21	less-open
	36.69	312.0	11.7	less-open
	36.98	309.4	14.0	less-open
	37.33	326.7	10.0	less-open
	37.72	307.4	12.1	less-open
	38.42	305.1	12.01	less-open
	39.7	320.33	9.65	less-open
40	40.27	321.0	8.9	less-open
	40.63	331.3	7.3	less-open
	40.76	310.0	9.0	less-open
	41.45	310.7	6.1	less-open
	41.8	339.97	15.12	open
	42.81	319.52	5.84	less-open
	43.90	308.3	14.2	less-open
	44.25	307.8	22.0	less-open
	45.74	8.3	9.4	less-open
	47.38	313.5	3.9	less-open
	47.72	308.9	8.3	less-open
	48.49	132.4	28.8	less-open
	49.31	313.4	13.6	open
50	51.23	304.2	11.1	less-open
	53.37	39.0	7.0	less-open
	53.59	28.3	8.8	less-open
	53.93	129.9	79.8	open
	55.45	350.4	10.3	less-open
	57.17	331.6	15.6	open
	57.64	328.4	7.3	less-open
	58.56	324.3	10.8	open
	59.46	256.82	5.69	less-open
60	60.06	313.22	13.2	less-open
	61.28	326.7	7.9	less-open
	61.80	321.4	16.2	less-open
	61.99	315.6	13.6	less-open
	62.53	12.1	11.4	less-open
	63.54	322.6	22.1	less-open
	64.30	320.3	14.0	less-open
	64.96	311.2	14.1	less-open
	65.40	307.3	9.5	less-open
	67.18	346.2	12.4	less-open
	68.32	237.3	8.7	less-open
70	71.09	340.8	12.2	less-open
	72.04	311.2	8.0	less-open
	72.22	323.2	11.7	less-open
	72.36	322.1	10.9	less-open
	75.13	321.1	16.0	less-open
	75.51	326.3	15.9	less-open
	76.43	342.2	11.3	less-open
	76.66	359.6	12.9	less-open
80	82.83	313.1	8.4	less-open
	83.67	123.9	2.0	less-open
90	90.46	312.7	5.4	less-open
	91.54	336.6	5.9	less-open
	91.78	321.4	6.3	less-open
	92.06	320.6	9.6	less-open
	93.34	120.2	76.7	open
	95.49	342.9	7.2	less-open
	96.09	326.6	9.9	less-open
	97.43	347.2	9.1	less-open
	99.79	303.6	9.0	less-open
100	100.3	258.96	8.89	less-open
	101.13	7.05	22.18	less-open
	102.83	310.3	19.8	less-open
	103.54	280.6	18.0	less-open
	104.49	90.3	20.1	open
	106.32	44.4	23.3	less-open
	109.54	326.6	15.5	less-open
110	111.65	54.6	13.3	less-open
	112.82	147.1	20.1	less-open
	113.44	343.5	8.8	less-open
	113.86	295.6	11.3	less-open
	114.39	301.0	7.0	less-open

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	114.95	313.4	11.4	less-open
	115.42	309.3	20.6	less-open
	117.39	332.9	9.7	less-open
	118.61	333.6	9.3	less-open
120	121.06	335.5	8.9	open
	125.02	346.3	14.7	less-open
	126.50	315.5	15.8	less-open
	129.78	320.7	13.1	less-open
130	130.66	325.0	11.3	less-open
	131.07	13.0	34.1	less-open
	136.63	302.2	13.8	less-open
	136.74	124.2	76.5	less-open
	136.92	312.1	12.3	less-open
	137.91	346.4	11.5	less-open
140	140.01	300.6	9.2	less-open
	141.1	314.2	11.9	less-open
	142.65	340.8	9.9	less-open
	144.79	339.8	10.0	less-open
	145.74	323.3	11.2	less-open
	146.02	342.8	17.0	less-open
	146.72	323.4	14.7	less-open
	148.1	339.6	13.0	open
	149.39	337.1	14.4	less-open
	149.67	337.1	12.7	less-open
150	150.26	16.1	28.1	less-open
	152.35	333.5	11.7	less-open
	152.9	327.1	9.6	less-open
	154.38	302.4	10.0	less-open
	154.77	333.8	10.6	less-open
	154.97	339.7	15.0	open
	156.37	327.3	8.5	less-open
	156.91	352.2	9.2	less-open
	157.64	337.6	7.7	less-open
160	160.67	315.9	8.7	less-open
	161.24	332.57	8.09	less-open
	163.21	342.93	12.59	less-open
	166.02	36.0	9.3	less-open
	167.36	337.5	9.0	less-open
	168.39	329.7	7.5	less-open
	169.16	310.8	11.9	less-open
	169.83	318.0	12.6	less-open
170	170.34	27.4	6.3	less-open
	170.81	331.4	13.5	less-open
	172.85	301.5	28.0	less-open
	173.22	323.6	27.5	less-open
	175.88	350.96	28.88	less-open
	176.45	318.92	52.12	less-open
	176.59	319.1	22.0	less-open
	177.16	158.7	4.8	open
	177.61	326.2	13.8	less-open
	178.29	339.5	13.0	less-open
	178.88	331.8	13.2	less-open
	179.41	314.2	8.7	less-open
180	180.13	142.1	4.7	less-open
	181.12	324.6	17.2	less-open
	181.5	0.4	13.8	less-open
	182.56	329.4	10.4	less-open
	183.05	341.5	12.7	less-open
	183.58	307.9	20.8	less-open
	184.52	332.3	15.1	less-open
	186.55	111.9	70.3	less-open
	186.81	27.6	10.0	less-open
	186.98	39.0	5.5	less-open
	187.34	16.5	9.2	less-open
	189.6	17.6	15.5	less-open
190	190.15	89.6	15.9	less-open
	190.78	119.1	34.8	less-open
	191.17	328.6	9.0	less-open
	192.83	321.2	16.0	less-open
	193.66	300.3	15.0	less-open
	194.47	337.2	14.4	less-open
	194.85	346.4	11.7	less-open
	195.46	315.3	9.7	less-open
	196.98	340.7	15.4	less-open
	197.49	329.3	15.7	less-open
	197.78	344.9	13.8	less-open
200	200.24	274.0	41.6	less-open
	200.75	290.5	17.7	less-open
	201.04	320.2	20.4	less-open

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South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	201.04	320.2	20.4	less-open
	201.46	332.0	15.8	open
	201.95	334.0	23.5	less-open
	203.77	336.9	12.4	less-open
	205.37	310.3	12.2	less-open
	206.92	317.9	21.3	less-open
	208.4	194.4	6.2	less-open
	208.91	48.3	16.9	less-open
	209.58	97.0	10.0	less-open
	209.91	145.3	4.6	less-open
210	211.76	62.5	14.8	less-open
	212.43	54.9	14.7	less-open
	212.76	322.7	15.0	less-open
	213.47	325.8	12.7	less-open
	214.29	324.9	18.1	less-open
	216.23	134.4	59.0	less-open
	217.69	337.8	8.0	less-open
220	220.4	336.9	10.6	less-open
	221.2	322.2	12.8	less-open
	221.83	321.9	12.5	less-open
	222.96	339.9	15.5	less-open
	223.59	341.4	16.0	less-open
	225.13	284.2	16.4	less-open
	228.1	340.6	10.6	less-open
230	238.57	336.3	8.1	less-open
240	241.6	316.2	11.8	less-open
	243.23	300.8	11.6	less-open
	243.54	328.8	18.3	less-open
250	251.39	274.7	17.9	open
	253.08	306.31	15.72	open
	259.24	323.06	18.12	less-open
260	260.11	96.5	0.6	less-open
	261.5	309.6	6.2	less-open
	261.59	315.5	56.2	less-open
	262.69	337.92	9.43	less-open
	265.3	328.66	14.13	less-open
	265.59	338.0	8.8	less-open
	266.85	330.9	9.3	less-open
	267.2	338.1	13.6	less-open
270	270.56	338.6	12.0	less-open
	271.06	317.5	9.1	less-open
	271.59	325.3	14.4	less-open
	271.84	324.2	14.7	less-open
	272.58	329.0	4.9	less-open
	272.99	315.4	12.2	less-open
	273.97	307.2	4.1	open
	274.54	334.6	19.6	less-open
	275.28	312.2	10.2	less-open
	275.56	317.54	14.85	open
	275.81	304.76	13.06	less-open
	276.2	307.0	18.5	less-open
	276.82	323.5	7.4	less-open
	278.15	329.8	6.4	less-open
280	281.53	36.4	7.6	less-open
	281.6	313.4	61.2	less-open
	283.01	323.1	10.7	less-open
	287.38	269.5	20.0	less-open
	288.17	293.1	7.7	less-open
	289.86	321.3	9.4	less-open
290	290.27	318.6	57.4	less-open
	294.05	7.6	12.2	less-open
	296.56	285.3	27.9	less-open
	296.77	307.9	25.4	less-open
	298.3	314.3	19.7	less-open
	299.81	310.7	9.9	open
300	300.31	124.7	82.8	open
	300.7	312.7	10.3	less-open
	304.35	306.5	47.3	less-open
310	310.55	318.8	16.4	less-open
	311.27	324.0	11.5	less-open
	312.18	139.5	9.7	less-open
	313.2	312.1	10.7	less-open
	314.57	322.3	9.5	less-open
	315.42	9.02	10.86	less-open
	315.64	145.99	30.02	less-open
	316.25	317.2	9.7	less-open
	316.37	135.2	54.6	less-open
	316.78	325.6	4.5	less-open

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	317.57	334.2	31.1	less-open
	318.07	313.5	32.4	less-open
	318.44	334.8	14.4	less-open
	319.2	323.0	9.1	less-open
320	320.62	287.2	13.9	less-open
	321.2	315.42	12.65	less-open
	323.21	10.04	15.88	less-open
	324.57	305.1	16.6	less-open
	325.05	324.9	15.0	less-open
	326.07	343.3	6.6	less-open
	326.39	344.4	6.0	less-open
	327.39	15.6	7.5	less-open
	328.17	327.1	13.2	less-open
	328.64	324.5	7.7	less-open
	329.7	326.5	7.9	less-open
330	331.46	321.5	5.3	less-open
	331.81	306.28	8.54	less-open
	332.11	318.73	6.99	less-open
	332.44	307.27	4.59	less-open
	332.69	317.64	7.13	less-open
	334.13	334.09	10.33	less-open
	334.52	311.87	10.12	less-open
	336.21	65.36	8.62	less-open
	338.61	307.13	14.28	open
	339.16	329.47	15.06	open
340	340.44	300.85	9.76	open
	341.8	222.12	4.88	less-open
	343.02	331.19	45.81	less-open
	345.24	5.64	9.14	open
	345.58	313.83	8.98	less-open
	346.48	323.76	7.21	less-open
	347.48	321.15	4.63	less-open
	347.72	324.98	8.87	less-open
	347.88	316.44	4.92	less-open
	349.17	56.3	10.46	less-open
350	350.44	128.15	19.43	less-open
	350.63	111.31	13.63	less-open
	351.3	320.05	13.38	less-open
	351.71	319.31	9.64	less-open
	352.35	322.36	17.1	less-open
	352.97	298.03	17.45	less-open
	353.87	25.87	1.39	less-open
	354.57	353.79	12.07	less-open
	355.93	358.45	2.51	less-open
	357.06	276.47	44.17	less-open
	358.43	306.23	15.21	open
	359.92	108.15	10.45	less-open
	362.58	353.72	7.36	less-open
	363.11	311.68	8.77	less-open
	363.31	306.96	10.66	less-open
	363.54	296.25	15.47	less-open
	364.72	311.35	8.56	less-open
	365.09	328.37	7.68	less-open
	367.33	58.86	15.86	less-open
	369.13	320.49	10.57	less-open
	369.41	281.85	9.24	less-open
370	370.62	151.12	36.97	less-open
	371.73	309.32	18.29	less-open
	372.41	305.79	11.05	less-open
	372.94	11.84	9.33	less-open
	373.38	11.63	16.08	less-open
	374.63	235.92	11.47	less-open
	377.92	315.49	10.79	open
380	380.28	12.52	6.68	less-open
	381.65	134.36	13.41	less-open
	383.14	317.41	13.97	less-open
	383.94	342.75	16.3	less-open
	384.83	332.42	8.86	less-open
	384.97	20.1	7.07	less-open
	385.25	21.2	17.82	less-open
	386.55	325.5	12.78	less-open
	387.26	327.54	14.97	less-open
390	390.39	327.5	17.35	less-open
	393.18	258.4	17.17	less-open
	393.72	320	8.05	less-open
	394.7	328.15	10.2	less-open
	395.34	331.43	11.09	less-open
	396.43	324.01	7.68	less-open

Planar Feature Orientations Interpreted from the MW-20I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	396.75	329.44	17.56	less-open
	397.66	10.41	5.13	less-open
	398.58	299.35	11.97	less-open
400	401.02	307.03	53.05	less-open
	401.79	331.72	6.54	open
	402.10	346.66	13.70	less-open
	402.27	30.45	21.03	less-open
	406.91	132.23	62.13	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar Feature Orientations Interpreted from the MW-21I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
30	32.09	308.1	16.1	less-open
	32.41	316.8	15.4	less-open
	32.64	276.6	14.0	less-open
	32.79	278.1	5.5	less-open
	33.18	319.1	18.7	less-open
	33.56	303.68	50.76	less-open
	33.85	272.87	12.2	less-open
	34.95	326.18	17.02	less-open
	35.19	352.65	12.91	less-open
	35.77	241.2	13.35	less-open
	36.06	194.9	24.57	less-open
	36.45	327.9	13.0	less-open
	36.69	334.6	13.4	less-open
	37.07	335.1	15.4	less-open
	37.37	301.6	15.1	less-open
	37.58	312.29	14.85	less-open
	37.87	37.45	18.27	less-open
	38.27	5.8	26.0	less-open
	38.70	256.2	5.7	less-open
	39.14	265.3	18.0	less-open
	39.59	9.3	18.3	less-open
	39.8	85.13	10.21	less-open
40	40.42	195.81	3.55	less-open
	40.76	129.4	7.2	less-open
	41.31	315.8	8.5	less-open
	43.32	58.9	5.6	less-open
	43.43	149.3	4.1	less-open
	44.20	272.0	9.1	less-open
	44.30	79.8	4.4	less-open
	45.17	330.3	7.9	less-open
	45.34	345.9	20.5	less-open
	45.53	24.9	4.1	less-open
	45.68	2.4	7.5	less-open
	46.59	60.8	4.6	less-open
	46.86	89.4	4.3	less-open
	47.73	313.7	15.2	less-open
	48.69	353.4	12.0	less-open
	48.86	20.5	11.7	less-open
50	50.18	347.18	10.66	less-open
	50.66	124.13	4.87	less-open
	50.88	101.7	12.3	less-open
	51.40	125.7	28.7	less-open
	52.22	0.2	19.4	less-open
	53.12	317.3	21.9	less-open
	54.26	298.1	8.6	less-open
	54.48	275.0	9.5	less-open
	54.78	350.5	4.1	less-open
	55.03	263.4	15.1	less-open
	55.45	39.8	5.5	less-open
	56.63	16.8	6.8	less-open
	56.97	316.5	6.6	less-open
	57.33	158.7	18.8	less-open
	57.67	324.9	18.5	less-open
	57.88	293.4	2.1	less-open
	58.66	318.8	12.1	less-open
	59.36	285.1	1.3	less-open
	59.72	292.1	22.1	less-open
60	60.19	321.2	12.1	less-open
	60.73	304.3	4.1	less-open
	62.16	295.2	13.6	less-open
	62.56	299.8	1.1	less-open
	63.59	293.5	17.6	less-open
	65.29	273.7	7.8	less-open
	66.37	42.7	35.3	open
	66.46	213.1	47.9	open
	67.28	303.5	9.5	less-open
	67.73	255.6	12.6	less-open
	68.01	308.3	2.5	less-open
	68.20	309.6	13.0	less-open
	68.6	284.41	17.3	less-open
	69.18	323.19	9.44	less-open
	69.42	13.9	4.6	less-open
	69.52	305.6	50.5	less-open
70	70.85	315.7	6.7	less-open
	71.22	323.3	10.8	less-open
	71.39	320.8	19.6	less-open
	72.15	333.2	18.3	less-open
	72.67	329.8	11.9	less-open
	73.32	330.9	25.2	less-open

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	73.60	157.1	24.9	open
	73.85	233.1	40.5	less-open
	74.48	9.3	23.8	less-open
	74.88	151.7	70.6	less-open
	76.70	308.0	9.8	less-open
	78.45	40.3	8.5	less-open
	78.74	316.4	11.7	less-open
	78.97	125.5	7.8	less-open
	79.11	86.7	7.2	less-open
	79.74	166.2	6.7	less-open
80	80.84	167.5	9.5	less-open
	81.85	142.5	22.2	less-open
	82.54	189.6	22.4	less-open
	82.99	342.5	18.2	less-open
	83.57	170.1	6.2	less-open
	83.69	319.9	58.6	less-open
	83.74	304.5	3.5	less-open
	84.27	184.7	9.6	less-open
	86.25	178.3	64.2	less-open
	87.26	215.7	15.1	less-open
	88.83	177.9	13.9	less-open
90	91.64	299.7	17.0	less-open
	91.75	305.5	25.7	less-open
	92.11	308.9	37.7	less-open
	93.52	311.4	15.1	less-open
	93.83	332.6	21.1	less-open
	94.23	335.0	20.8	less-open
	95.6	339.2	15.7	less-open
	98.2	125.8	13.4	less-open
	98.51	77.1	39.6	less-open
	98.9	89.6	46.3	less-open
100	100.22	323.0	9.0	less-open
	100.43	333.2	25.1	less-open
	100.54	129.7	79.7	less-open
	103.44	109.4	73.4	less-open
	103.88	116.7	66.7	less-open
	106.74	194.41	23.19	less-open
	107.13	214.09	38.6	less-open
	109.81	141.6	31.8	open
110	110.66	297.8	12.0	less-open
	110.96	296.4	19.6	less-open
	111.59	8.1	16.5	less-open
	112.75	97.6	19.2	less-open
	113.24	38.2	11.8	less-open
	113.94	110.7	6.9	less-open
	115	140.3	66.8	open
	117.13	86.6	51.7	less-open
	119.59	8.96	7.97	less-open
120	120.21	345.76	21.45	less-open
	120.88	316.2	6.7	less-open
	121.73	313.2	14.7	less-open
	122.3	325.1	20.0	less-open
	122.61	345.1	14.1	less-open
	125.25	186.6	9.4	less-open
	126	204.0	4.3	less-open
	126.25	352.1	10.1	less-open
	127.19	175.1	22.1	less-open
	129.14	21.7	49.4	less-open
130	134.73	93.1	6.4	less-open
	135.71	354.0	15.3	less-open
	137.6	329.4	5.6	less-open
	138.11	297.0	46.5	less-open
	138.76	204.4	14.4	less-open
	139.95	350.4	10.2	less-open
140	140.53	7.2	8.6	less-open
	142.15	117.2	73.8	less-open
	142.8	114.3	70.4	less-open
	143.73	355.9	16.4	less-open
	144.57	8.9	15.3	less-open
	145.5	18.2	36.3	less-open
	145.78	231.2	13.0	less-open
	146.38	337.0	16.3	less-open
	146.63	309.6	8.3	less-open
	146.86	115.0	80.9	less-open
	146.96	337.4	7.0	less-open
	147.61	342.4	13.1	less-open
	147.75	358.8	13.6	less-open
	148.87	28.1	9.5	less-open
	149.7	306.3	53.2	less-open

Planar Feature Orientations Interpreted from the MW-21I Acoustic Televiewer Log
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South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
150	151.33	302.9	13.2	less-open
	152.47	3.1	23.5	less-open
	152.61	166.7	26.4	less-open
	153.35	291.8	17.2	less-open
	153.45	100.5	10.3	less-open
	153.7	155.4	19.7	less-open
	154.28	358.2	27.7	less-open
	154.6	115.9	74.0	open
	155.2	121.2	76.0	less-open
	156.91	102.4	33.5	less-open
	157.29	123.3	64.4	less-open
	158.67	142.0	72.2	less-open
	158.91	356.7	27.3	less-open
	159.63	60.1	6.7	less-open
	159.89	33.9	10.6	less-open
160	160.54	106.1	26.8	less-open
	160.66	86.9	12.9	less-open
	161.27	132.4	25.2	less-open
	161.64	290.8	5.7	less-open
	162.41	308.2	4.1	less-open
	162.82	306.2	11.0	less-open
	163.75	281.1	6.5	less-open
	165.53	322.3	11.5	less-open
	165.95	155.6	25.6	less-open
	166.45	304.7	6.0	less-open
	167.95	189.5	69.9	less-open
	168.17	287.9	17.1	less-open
170	170.35	125.4	82.2	less-open
	171.94	137.9	61.8	open
	172.25	129.25	78.97	open
	174.12	44.63	34.02	less-open
	175.72	12.4	28.0	less-open
	176.03	314.1	13.7	less-open
180	181.51	353.4	14.2	open
	182.4	282.96	9.19	less-open
	182.94	351.42	13.15	less-open
	183.18	340.6	6.8	less-open
	183.75	89.9	1.0	less-open
	184.81	30.6	18.4	less-open
	185.25	252.3	6.3	less-open
	186.15	47.1	11.7	less-open
	189.95	124.2	66.7	less-open
190	195.42	281.4	9.1	open
	196.96	237.5	45.1	less-open
	197.25	285.5	9.7	less-open
	197.44	4.1	9.2	less-open
	197.72	7.7	10.1	less-open
	199.03	241.4	10.5	less-open
	199.21	348.78	4.83	less-open
200	203.73	342.87	18.25	less-open
	209.06	226.2	36.9	less-open
	209.73	239.2	56.1	less-open
210	211.96	187.4	75.6	less-open
	212.83	204.9	24.5	less-open
	213.27	357.8	9.2	less-open
	213.67	300.6	14.0	less-open
	214.08	344.6	7.7	open
	214.48	134.4	82.0	less-open
	215.03	111.6	86.3	less-open
220	223.38	173.2	8.8	less-open
240	241.82	290.6	5.5	less-open
	242.79	52.0	8.1	less-open
	245.27	174.9	8.6	open
	246.44	292.2	9.9	less-open
	247.07	170.3	4.4	open
	248.04	354.2	90.0	less-open
	248.11	209.9	7.3	open
250	252.43	15.2	27.7	less-open
	253.65	258.8	23.6	less-open
	254.76	5.1	14.5	less-open
	258.26	278.4	4.8	open
	259.02	254.2	16.3	open
260	261.71	93.7	15.1	less-open
	262.21	237.5	13.76	less-open
	262.71	329.76	4.44	less-open
	266.07	343.0	15.1	open
	266.32	345.0	48.3	less-open
	268.63	193.4	6.5	less-open

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	268.7	176.7	2.9	less-open
	269.67	183.9	2.1	less-open
	269.91	302.0	6.8	less-open
270	270.29	254.1	8.0	less-open
	270.93	255.6	11.8	less-open
	271.2	234.03	6.02	less-open
	271.53	218.47	6.6	less-open
	271.7	270.6	5.8	less-open
	273.18	288.7	7.9	less-open
	277.63	160.4	12.5	less-open
	277.81	168.7	29.5	less-open
	278.02	169.5	30.0	less-open
	278.3	162.3	27.8	less-open
	278.53	191.4	22.8	less-open
	279.27	2.4	5.6	less-open
	279.67	18.9	8.9	less-open
280	281.04	282.52	24.53	less-open
	281.32	299.02	23.09	less-open
	282.2	339.66	13.06	less-open
	282.7	324.94	9.62	less-open
	284.15	336.44	24.93	less-open
	285.15	69.92	25.33	less-open
	286.08	285.93	16.38	less-open
	289.28	286.85	13.16	less-open
290	291.97	332.66	8.3	less-open
	295.53	331.9	11.13	less-open
	295.63	333.66	9.21	less-open
	296.25	313.38	19.23	less-open
	296.4	339.75	13.28	less-open
	297.85	180.81	64.13	less-open
	299.4	343.84	30.95	less-open
300	300.16	238.31	15.65	less-open
	300.48	13.46	17.17	less-open
	301.49	347.02	17.17	less-open
	302.92	339.86	8.77	less-open
	306.66	196.71	34.66	less-open
310	312.52	43.24	30.55	less-open
	314.28	216.1	26.38	less-open
	314.9	62.5	29.48	less-open
	314.94	10.28	18.03	less-open
	316.52	350.47	3.3	less-open
	318.82	327.81	13.06	less-open
320	321.25	348.9	9.39	less-open
	321.96	334.92	12.88	less-open
	323.6	20.65	20.38	less-open
	324.1	0.49	17.41	less-open
	324.56	42.05	2.87	less-open
	326.76	201.98	77.68	less-open
	327.56	280.84	12.08	less-open
	328.31	286.64	10.3	less-open
	328.53	271.2	28.8	less-open
	329.81	349.66	9.09	less-open
330	330.77	329.46	12.24	less-open
	338.18	86.44	37.99	less-open
340	340.18	322.54	13.32	less-open
	341.31	117.38	61.23	less-open
	342.44	188.28	62.64	less-open
	342.91	279.76	24.24	less-open
	344.44	294.89	27.4	less-open
	344.63	264.68	13.35	less-open
	347.76	34.93	9.17	less-open
	347.95	355.03	11.44	less-open
350	351.24	358.4	39.94	less-open
	354.89	184.86	21.13	less-open
	356.2	293.86	14.98	less-open
	356.55	261.45	20.74	less-open
	356.72	278.8	18.76	less-open
	357.45	351.87	4.69	less-open
	357.62	19.56	2.97	less-open
	358.65	175.14	15.25	less-open
	359.4	211.69	5.24	less-open
360	365.09	112.77	76.57	less-open
	365.22	237.26	69.53	less-open
	367.28	132.56	80.76	less-open
	367.9	133.84	82.97	less-open
370	370.48	195.93	76.93	less-open
	375.58	176.18	37.88	less-open
	382.95	125.8	81.44	less-open

Planar Feature Orientations Interpreted from the MW-21I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

Depth (feet)		Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
400	401.39	3.44	12.06	less-open
	402.21	319.47	14.64	less-open
410	416.58	291.85	11.01	less-open
420	424.19	137.33	74.6	less-open
	425.89	119.93	71.35	less-open
	426.15	133.94	54.66	less-open
	427.27	125.98	72.46	less-open
	429.83	112.12	36.28	less-open
430	436.83	117.84	11.64	less-open
440	442.88	358.75	12.23	less-open
	443.65	325	5.38	less-open
	444.45	345.19	8.35	less-open
	444.78	25.86	14.02	less-open
	445.89	346.75	14.65	less-open
	447.9	279.41	20.48	open
450	450.91	354.05	24.16	less-open
	451.07	39.68	24.97	less-open
	453.47	156.87	27.41	less-open
	453.93	296.17	23.22	less-open
	456.41	76.63	10.96	less-open
	456.72	86.47	12.59	less-open
	457.07	85.4	13.14	less-open
	457.43	88.77	21.91	less-open
460	460.32	318.32	6.4	less-open
	461.18	283.25	20.95	less-open
	467.54	293.66	8.72	less-open
	467.81	336.32	11.95	less-open
470	470.77	326.13	8.63	less-open
	471.21	187.54	9	less-open
	476.01	352.44	21.29	less-open
	476.47	302.63	23.45	less-open
480	482.62	327.86	9.41	less-open
	483.94	287.31	8.04	open
490	490.6	303.11	12.65	less-open
	491.24	324.11	6.8	less-open
	491.44	239.99	10.73	less-open
	494.7	214.72	10.69	open
	495.77	354.18	20.08	less-open
	496.1	350.07	16.66	less-open
	498.53	355.83	6.94	less-open
	498.64	334.66	12.04	less-open
	499.79	239.93	7.82	less-open
500	500.41	29.37	6.88	less-open
	501.86	262.76	13.26	less-open
	502.97	334.26	12.56	less-open
	503.89	312.63	13.81	less-open
	504.7	269.33	2.65	less-open
	506.89	333.19	10.59	less-open
	507.39	312.78	11.48	less-open
	508.02	320.16	7.96	less-open
	508.5	212.81	3.03	less-open
	508.9	341.14	14.59	less-open
	509.44	324.6	15.99	less-open
	509.73	253.1	8.79	less-open
510	510.2	331.69	6.98	less-open
	512.31	266.92	8.09	less-open
	516.76	280.43	42.29	less-open
	517.07	170.09	64.51	less-open
	519.07	351.79	11.81	less-open
	519.46	312.35	15.61	less-open
520	520.12	356.98	14.75	less-open
	521.74	310.77	6.67	less-open
	523.76	295.09	11.29	less-open
	524.69	220.95	4.93	less-open
	527.9	277.49	14.66	less-open
	528.47	329.8	11.49	less-open
	529.51	13.83	35.11	less-open
530	530.28	350.39	42.58	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.

Planar Feature Orientations Interpreted from the MW-22I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
20	27.15	185.9	78.7	less-open
	27.81	191.0	74.0	less-open
	28.75	23.0	27.6	less-open
30	30.49	337.4	11.8	less-open
	32.19	318.9	12.2	open
	32.42	322.1	12.6	less-open
	33.41	346.2	15.7	less-open
	34.63	40.55	13.2	less-open
	35.46	339.39	10.73	less-open
	36.04	322.8	13.88	less-open
	36.21	5.08	13.96	less-open
	36.65	327.91	12.53	less-open
	39.45	318.55	70.78	less-open
40	41.75	328.0	9.9	open
	41.98	327.7	13.6	less-open
	44.67	294.2	15.6	less-open
	45.86	86.0	14.2	less-open
	46.71	329.21	13.78	open
	46.96	310.83	17.88	open
	49.80	315.0	12.9	open
50	50.04	318.7	16.6	less-open
	50.21	322.1	11.6	less-open
	50.47	312.2	9.0	open
	50.86	328.01	13.64	open
	51.36	301.78	8.63	less-open
	52.67	297.3	17.3	less-open
	53.86	317.1	7.5	less-open
	55.57	334.4	3.9	less-open
	57.29	316.3	9.4	open
	57.82	343.0	11.0	open
	59.13	343.6	11.1	less-open
60	60.09	24.0	6.6	less-open
	60.41	322.8	12.5	less-open
	61.03	327.9	11.0	less-open
	61.32	323.8	12.4	less-open
	62.40	355.1	10.5	less-open
	62.82	336.5	10.1	less-open
	63.09	325.1	11.1	less-open
	63.69	320.1	10.4	less-open
	64.51	327.9	13.9	less-open
	64.76	317.34	12.35	less-open
	65.08	308.63	11.93	less-open
	65.56	312.5	11.9	less-open
	65.84	323.7	8.9	less-open
	66.76	329.0	16.1	less-open
	67.92	312.7	7.2	less-open
	69.19	313.7	6.3	less-open
	69.37	318.9	6.6	less-open
70	70.42	324.9	10.0	less-open
	71.23	315.9	6.5	less-open
	71.94	305.9	13.5	open
	72.40	315.2	15.7	less-open
	73.24	332.3	13.6	less-open
	73.51	325.4	3.9	less-open
	73.63	329.8	5.7	less-open
	74.99	331.1	7.9	less-open
	75.66	332.3	4.3	less-open
	76.93	328.6	11.4	less-open
	77.49	335.7	6.0	less-open
	78.46	9.6	14.6	less-open
	79.27	331.0	8.4	less-open
	79.36	332.4	11.9	less-open
80	80.12	327.6	12.2	less-open
	81.06	300.6	7.8	less-open
	82.20	329.9	11.3	less-open
	83.21	2.8	12.8	less-open
	84.79	321.8	13.1	less-open
	86.98	309.6	25.1	less-open
	87.40	320.9	13.4	less-open
	88.41	329.2	9.8	less-open
	88.84	116.4	83.1	less-open
	88.85	314.91	10.5	less-open
	89.23	33.99	2.31	less-open
	89.84	18.5	8.4	less-open
90	91.17	312.0	9.4	less-open
	91.86	316.3	10.1	less-open
	94.80	332.3	14.0	less-open
	95.25	352.4	17.2	open
	95.80	306.7	8.6	less-open

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	96.83	301.4	17.7	less-open
	98.02	333.3	17.4	less-open
	98.57	332.6	28.0	less-open
100	102.86	307.3	14.4	less-open
	103.79	17.6	12.7	less-open
	104.27	316.9	11.9	less-open
	105.08	16.2	6.7	less-open
	105.97	14.7	10.3	less-open
	106.21	157.2	10.9	less-open
	107.22	335.4	20.0	less-open
	107.71	326.0	13.6	open
	109.74	326.1	10.1	less-open
110	110.71	328.0	12.7	less-open
	114.47	286.3	17.7	less-open
	115.29	329.6	9.3	less-open
	115.99	322.3	21.0	less-open
	116.45	300.5	14.8	less-open
	118.67	318.3	15.4	open
	119.73	316.1	10.6	less-open
120	120.46	327.8	12.0	less-open
	121.65	325.6	15.0	less-open
	123.25	325.8	18.5	less-open
	123.67	326.4	14.0	less-open
	124.35	310.9	10.5	less-open
	125.79	351.6	9.6	less-open
	127.76	298.8	8.7	less-open
	128.25	347.2	10.6	less-open
130	131.06	350.2	17.1	less-open
	132.12	314.0	10.5	less-open
	134.23	303.5	23.6	less-open
	135.09	318.4	7.5	less-open
	136.54	318.7	6.7	less-open
	136.87	342.0	11.6	less-open
	137.86	10.8	9.3	less-open
	138.03	325.8	13.0	less-open
140	140.64	309.9	11.9	less-open
	140.94	329.0	10.7	less-open
	142.1	311.4	10.0	less-open
	143.83	107.92	59.51	less-open
	144.93	271.11	3.49	less-open
	146.43	317.8	15.8	open
	146.76	331.5	14.6	less-open
	148.12	337.2	33.5	less-open
	149.3	6.5	25.3	less-open
150	150.35	13.8	12.0	less-open
	150.62	309.1	8.3	less-open
	150.93	28.7	6.5	less-open
	152.63	152.9	22.9	less-open
	153.64	310.2	19.0	less-open
	154.67	301.82	8.62	less-open
	155.16	304.97	16.11	less-open
	155.49	316.4	14.6	less-open
	156.1	319.4	29.8	less-open
	156.69	330.0	27.6	less-open
	159.55	337.5	18.3	less-open
160	160.58	308.1	25.2	less-open
	161.58	316.2	21.5	less-open
	161.86	310.0	20.7	less-open
	163.9	36.4	10.6	less-open
	166.06	330.1	12.1	open
	168.47	284.8	20.4	less-open
	169.76	350.1	22.4	less-open
170	171.1	334.5	16.7	less-open
	172.65	331.5	21.1	less-open
	173.25	329.8	17.2	less-open
	176.74	294.1	17.9	less-open
	177.36	307.2	13.8	less-open
	178.02	323.0	15.5	less-open
180	180.2	322.6	15.2	less-open
	181.23	296.7	14.2	less-open
	185.77	329.2	9.1	less-open
	187.11	310.8	14.3	less-open
	187.71	338.7	14.5	less-open
190	192.14	322.4	8.9	open
	193.47	300.9	14.9	less-open
	195.88	145.0	7.0	less-open
	197.27	331.1	10.7	less-open
200	200.5	331.0	10.8	less-open
	201.92	327.7	13.6	less-open

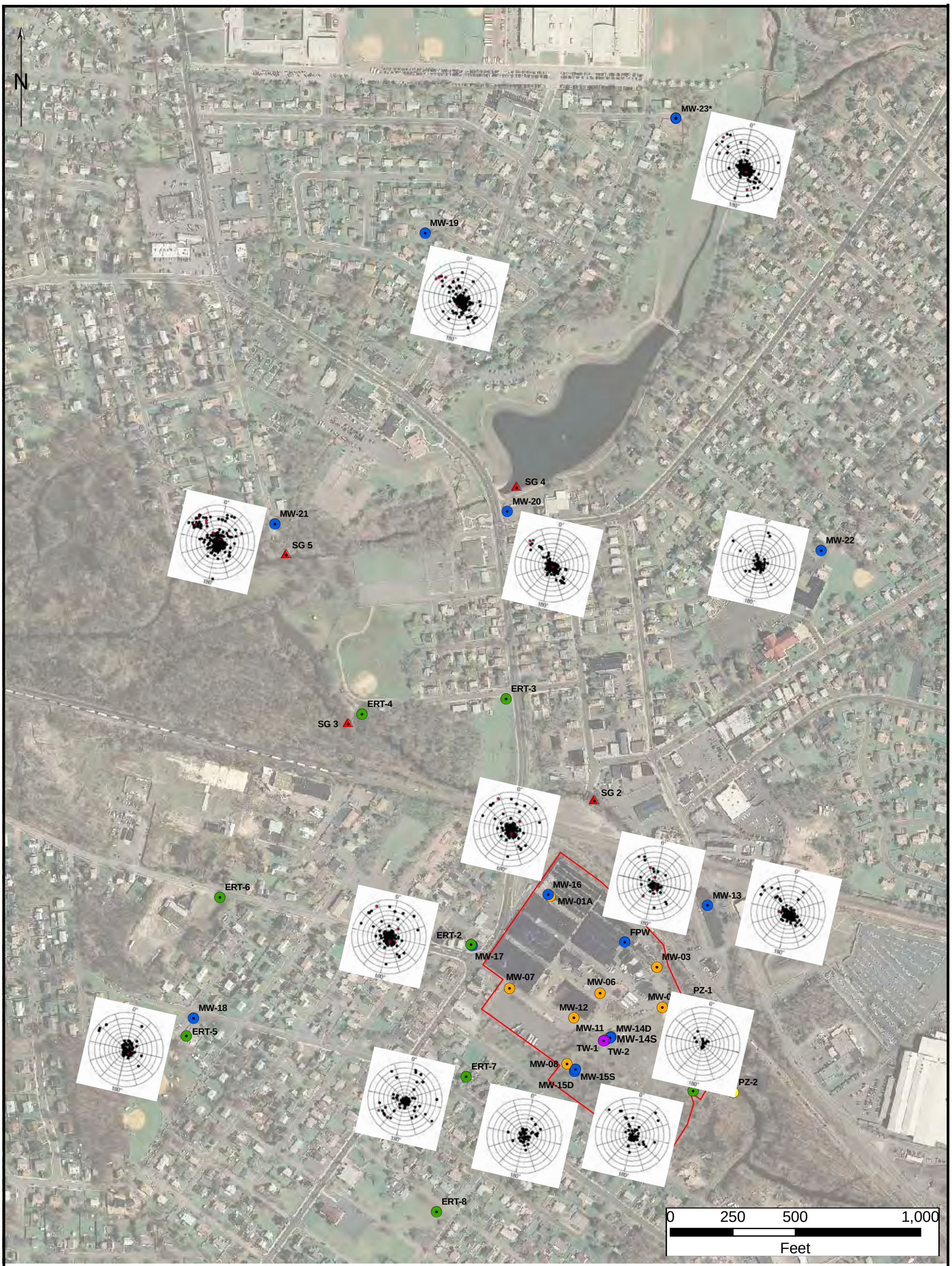
Planar Feature Orientations Interpreted from the MW-22I Acoustic Televiewer Log
Cornell-Dubilier Electronics Superfund Site
South Plainfield, New Jersey
Prepared for: Malcolm Pirnie, Inc.

	Depth (feet)	Down-dip Compass Azimuth[1,2,3] (degrees)	Dip Angle[3] (degrees)	Interpreted Planar Feature Category
	204.59	33.4	13.0	less-open
	206.32	309.8	11.1	less-open
	207.04	326.7	10.4	less-open
	208.22	327.3	13.3	less-open
	209.12	342.8	8.4	less-open
210	211.09	30.0	39.1	less-open
	211.71	40.8	46.5	less-open
	212.67	333.5	16.9	open
	215.22	275.9	6.1	less-open
	215.69	317.5	12.1	open
	216.51	330.3	9.8	less-open
	218.9	9.1	4.0	open
220	229.32	324.3	11.3	less-open
	229.99	335.4	7.8	less-open
230	230.3	311.1	15.3	less-open
	230.82	318.2	10.6	less-open
	231.72	297.4	12.4	less-open
	234.36	334.0	18.2	less-open
	236.32	303.5	12.1	less-open
240	240.79	333.9	13.0	less-open
	241.62	300.5	16.1	less-open
	242.75	324.4	21.8	open
	244.58	313.3	18.6	less-open
	247.43	302.6	14.1	less-open
	247.93	322.4	12.2	open
	248.73	336.9	13.6	less-open
250	251.27	315.4	9.5	less-open
	254.94	344.6	16.1	less-open
	255.62	235.7	19.2	less-open
	257.53	323.9	11.6	less-open
	259.59	290.9	17.4	less-open
260	269.12	307.7	11.8	less-open
	269.46	331.68	14.55	open
270	270.57	332.36	14.06	less-open
	271.06	327.3	13.2	less-open
	271.83	326.0	9.7	less-open
	277.4	288.6	18.8	less-open
280	285.58	262.61	19.78	less-open
	288.74	314.85	10.8	less-open
290	295.46	143.8	19.0	less-open
300	300.89	141.9	18.6	less-open
310	310.46	305.7	20.0	open
	311.17	328.7	23.4	less-open
	316.65	358.2	23.7	less-open
	318.08	329.4	12.0	less-open
320	321.35	358.6	9.4	less-open
	322.08	322.1	14.4	less-open
330	332.82	267.7	28.3	less-open
	333.16	157.1	15.0	less-open
	336.02	316.6	10.8	less-open
	337.52	347.3	4.9	less-open

[1]Note that down-dip compass azimuth is perpendicular to the strike direction.

[2]Note that interpreted down-dip compass azimuths are with respect to magnetic north.

[3]Down-dip azimuths & dip angles were corrected for borehole deviation from vertical.



Note: Equal angle (Schmidt) projection of southern hemisphere, corrected for magnetic deviation

Legend

- Former CDE Facility
- Shallow Bedrock Monitoring Well
- 2008 Flute™ Well
- 2009 Flute™ Well
- Test Well
- Staff Gage
- Piezometer
- Less Open Feature
- Open Feature

*Note: MW-23 installed and first sampled in December 2010

MALCOLM PIRNIE	Cornell-Dubilier Electronics Superfund Site - OU3 South Plainfield, New Jersey	Accoustic Televiewer Logs Pole to Plane Projections	Figure F-1

Note: Figures depict down dip azimuth frequency, corrected for magnetic deviation

Legend

- Former CDE Facility
- Shallow Bedrock Monitoring Well
- 2008 Flute™ Well
- 2009 Flute™ Well
- Test Well
- Staff Gage
- Piezometer

*Note: MW-23 installed and first sampled in December 2010

MALCOLM PIRNIE	Cornell-Dubilier Electronics Superfund Site - OU3 South Plainfield, New Jersey	Accoustic Televiewer Logs Rose Diagrams Less Open Features	Figure F-2

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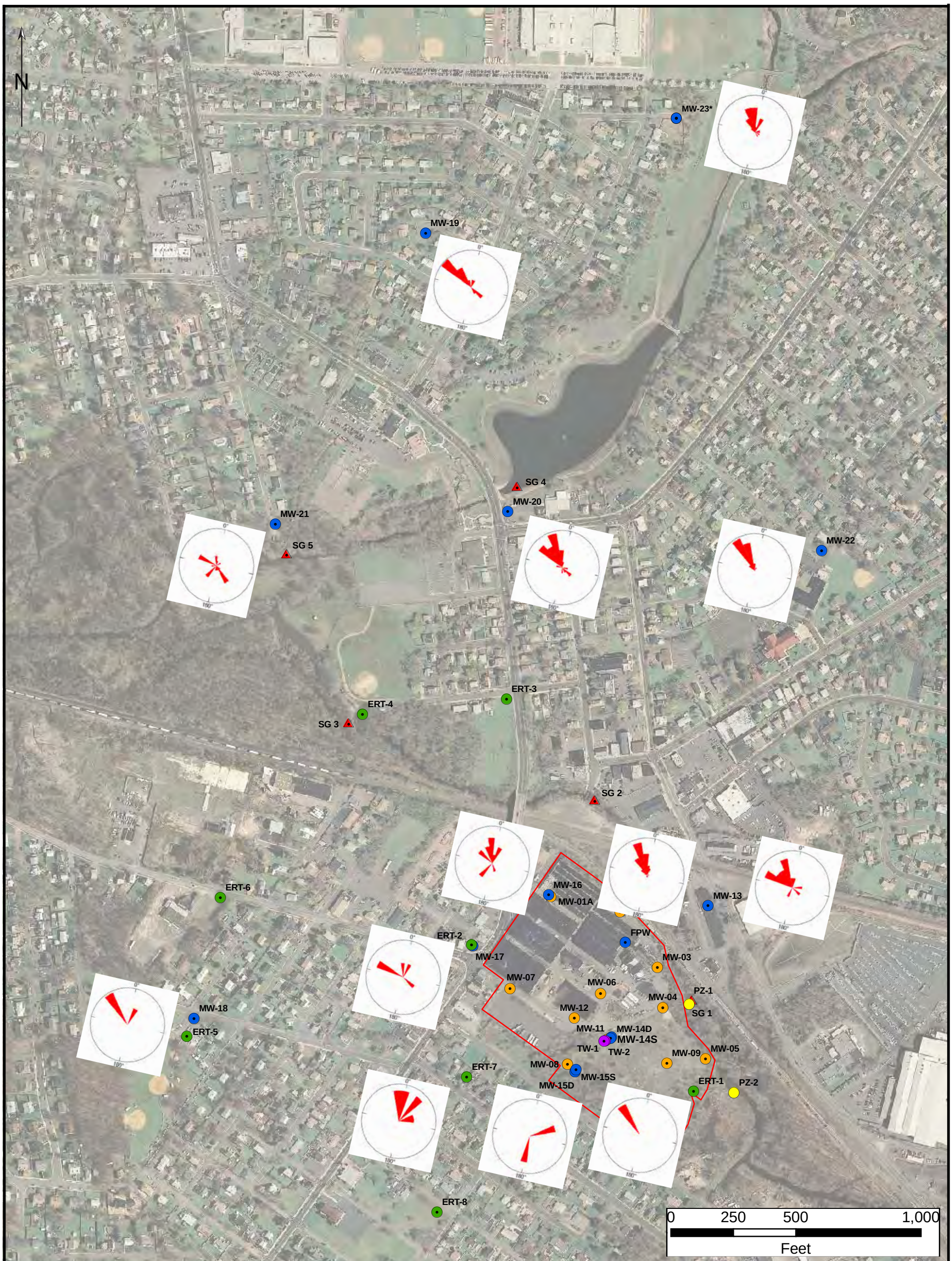

Note: Figures depict down dip azimuth frequency, corrected for magnetic deviation

Legend

- Former CDE Facility
- Shallow Bedrock Monitoring Well
- 2008 Flute™ Well
- 2009 Flute™ Well
- Test Well
- Staff Gage
- Piezometer

*Note: MW-23 installed and first sampled in December 2010

MALCOLM PIRNIE

Cornell-Dubilier Electronics Superfund Site - OU3

South Plainfield, New Jersey

Accoustic Televiewer Logs
Rose Diagrams
Open Features

Figure F-3