BROHM MINING CORPORATION
DIAMOND DRILL HOLE LOG

Property	Gilt Edge	Hole No.	D89-72
Location	Twin to D88-409	Bearing at Collar	
		Inclination at Collar	-90°
Coord. - Collar N	45118.14		
E	26911.04	Length	1043'
Elev. - Collar	5541.70	Core Size	6"
Date started	1/3/89		
Completed	1/14/89	Logged by	S. Rinehoffer

SURVEY

Footage	Bearing	Inclination

* Note: Hole is spot cored w/ rotary drilling between intervals indicated.

LITHOLOGY, ALTERATION, MISC.	FT.	FRACTURE GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	ANALYTICAL 6 in. Red	4 in. Red	Skeleton footage	ASSAY Au	Fractures Surface	Mineralization
(300-370.5) Mod. fract. Ttp. - Same small altered veins at 1E around 308.5'. Some areas of finer grained Ttp around 341'. Possible partially assim. veins?	300	60	(300.-320.5) Total Fe S2 ~5% in healed fracts & dissm. throughout fract surfaces have abund cubic FeS2.	300-320.5							PR J4	FeS2
	310				20.5	18.9		15.2				
			320' Elongate & cubic pyrite in sm. open space filling (vug).								PR J4	FeS2
	320	~5 ~5										
Rotary drilled from 320 to 450'. *Note: rotary interval is not to scale.		Rotary (Not to scale)										
	450		(450-463) Total Fe S2 ~7-10% as x-cutting units w/ open space filling & dissm. in clasts & matrix.	450-463								
(450-463) Highly fract. Tbxa. Clasts of F.G. qtz. veined Ttp & more coarse grained Ttp. Matrix is partially re-veined & varous, coll/core recovery probably due to block off of sat. / highly fr. in core barrel.			Irridescent chlorite coating some pyrite xtals at 454'.		13.0	7.0		4.9				
	460											
ROTARY from 463-490		Rotary not to scale										

HOLE No. D89-72

BROHM MINING CORPORTION
DIAMOND DRILL HOLE LOG (Cont.)

LITHOLOGY, ALTERATION, MISC.	FT.	FRACTURE GRAPHIC LOG	MINERALIZATION	RECOVERY: Run	RECOVERY: Run length	RECOVERY: Core	ANALYTICAL: 6 in. Rod	ANALYTICAL: 4 in. Rod	ANALYTICAL: Skeleton footage	ANALYTICAL: ASSAY Au	ANALYTICAL: Fractures Surface	ANALYTICAL: Mineralization
(490-507) Lightly fract TTP. FeS2 in irregular healed fracts. & bands. Several small sub-angular PP xeno's scattered throughout run. Most mod. altered & assimilated.	490		(490-507) Total FeS2 ~10% in healed fracts. & dissem. in groundmass. TT Fluorite at 505'.	490-507	17.0	15.5		15.2				
	500											
ROTARY from 507-600	510	Rotary	Not to scale									
	600											
(600-618) Mod. fract TTP. Overall TTP is 1. Finer grained w/ several sub-angular 2 to 10 cm. PP Schistose xeno's throughout run. At 604' a 15 cm. sub-round coarser grained TTP xeno is noted. Some more fine grained PP fracts. w/ sulfide FeS2 & 1. fluorite throughout run. Healed fracts are dendritic at high & to C.A. " " "	610		(600-618) Total FeS2 ~10% in healed fracts & dissem. Purple Fluorite at 606'. Most fracts have traces of a light green mineral.	600-618	18.0	17.4		15.4			PPJ4 PPJ4	FeS2 FeS2
ROTARY 618-780	620	Rotary	Not to scale									

HOLE No. D89-72

BROHM MINING CORPORTION
DIAMOND DRILL HOLE LOG (Cont.)

LITHOLOGY, ALTERATION, MISC.	FT.	FRACTURE GRAPHIC LOG	MINERALIZATION	RECOVERY Run	Run length	Core	ANALYTICAL 6 in. Rod	4 in. Rod	Skeleton footage	ASSAY Au	Fractures Surface	Mineralization
(780-800') Lightly fract Tto. Abund FeSz healed tracts. & Dissm. outside. Most tracts appear drilling induced but have a 50°-70° orientation & to C.A. Most breaks occur along FeSz healed tracts.	780 790	70	(780-800') Total FeSz 7-10% as healed tracts & dissm. in g-mass. (786') Purple Fluorite in "FeSz" healed tract.	780-800	20.0	19.2		15.0			FSJ4	FeSz
(800-807.9') Same as above litho & structure. Several small moderately altered FC xends. throughout run. Some have Magnetite deposited along planes of schistosity.	800		(800-807.9') FeSz ~ 5%. Numerous sm. units of magnetite w/ FeSz & purple Fluorite in some healed tracts. Some magnetite occurs as dissm "blebs" in g-mass.	800-807.9	7.9	7.9		6.6				
(807.9-828.7') Lightly fract Tto to 814'. 814' Contact w/ Dakota Mnd Tto. Dakota Mnd Tto is coarser grained & g-mass is generally. (Marker) 814.5-828.7 is Rattlesnake Tto, litho & structure same as previous runs.	810 820	contact contact	(807.9-828.7') Total FeSz 7-10% dissm & as healed tract filling.	807.9-828.7	20.8	20.8		17.1				
(830-849.5') Moderately fract Tto. Run is characterized by Dakota Mnd Tto w/ large xends. at Rattlesnake Tto. at top & bottom of run. Smaller veins at Rattlesnake & RC Schist from 831'-847'. Many secondary qtz in the Rattlesnake.	830 840 850	contact F F	(830-849.5') Total FeSz 5-7% dissm. & in healed tracts. Traces of Fluorite throughout run. (845-847') Abund. dissm. Magnetite "blebs".	830-849.5	19.5	19.5		16.7				

HOLE No. D89-72

BROHM MINING CORPORTION
DIAMOND DRILL HOLE LOG (Cont.)

LITHOLOGY, ALTERATION, MISC.	FT.	FRACTURE GRAPHIC LOG	MINERALIZATION	RECOVERY Run	RECOVERY Run length	RECOVERY Core	ANALYTICAL 6 in. Rod	ANALYTICAL 4 in. Rod	ANALYTICAL Skeleton footage	ANALYTICAL ASSAY Au	ANALYTICAL Fractures Surface	ANALYTICAL Mineralization
Rotary drilled from X50-928'.	920	Rotary; Not to scale	(928-948') Total FeS2 ~ 3% disem. & in healed fracts. Some FeS2 has partially replaced some PE/Schist xenos in the Dakota Main TTP zones.									
(928-948') Lightly fract Rattlesnake TTP w/ xenos of Dakota Main. Dakota Main zones appear slightly brecciated & have xenos of PE Schist.	930	Dakota Main; Dakota Main xenos; 80			20.0	19.4		15.6			PSJ4	FeS2
Dakota Main & adjacent Rattlesnake have xenos & xenolith cross-cutting qtz. units which are sometimes altered. These units appear confined to the Dakota Main & immediate contact area w/ the Rattlesnake.	940	75; 60; Dakota Main	(937') Purple Fluorite & FeS2 vein ~ 2cm wide dip dipping down to dsm. unit.	928-948							PSJ4	FeS2 Fluorite
Most fracts. appear healed. Injured. All contacts notary on graphic log.											PSJ4	FeS2
(948-977.7' 12 runs): Main fract Dakota Main TTP. Run characterized by numerous PE xenos, sub-round, 5cm - 20cm. Most xenos have alteration halos, ~.5-2cm wide. (969-974) Healed by zone. FeS2 ~ 10% in healed by matrix. Most fracts appear drilling induced and have broken along very small FeS2 healed fracts. Fract. ∠'s to C.A. fall mostly between 45-75°. Some sm. xenos of Rattlesnake around 975'.	950	45	(948-977.7') Total FeS2 ~3-5% disem. & in healed fracts. Trace Fluorite throughout run.	948-957.7	9.7	8.3		6.1			PSJ4	FeS2
	960			957.7-977.7	20.0	20.0		19.4				
	970	65; 70									PSJ4	FeS2
											PSJ4	FeS2
(977.7-1005.5' 12 runs) Main fract Dakota Main TTP. TTP has moderately grind lightly altered PE Schist fraked throughout run. Most are ~ 2-7 cm. rounded and random in nature. In places TTP appears to have been shattered & healed w/ FeS2. Other areas & xenos appear to have been washed down & are somewhat vuggy. Lightly FeS2 & traces of qtz. Fluorite line many fracts & voids.	980	~50°; 60; F	(977.7-1005.5' 12 runs) Total FeS2 ~ 7-10% disem. & in healed fracts. Magnetite at 980.5 ft & trace of Fluorite throughout runs.	977.7-990.2	13.1	12.7		10.2			PRJ4	FeS2
	990										PSJ4	FeS2

HOLE No. D89-72

BROHM MINING CORPORTION
DIAMOND DRILL HOLE LOG (Cont.)

LITHOLOGY, ALTERATION, MISC.	FT.	FRACTURE GRAPHIC LOG	MINERALIZATION	RECOVERY Run	RECOVERY Run length	RECOVERY Core	ANALYTICAL 6 in. Rod	ANALYTICAL 4 in. Rod	ANALYTICAL Skeleton footage	ANALYTICAL ASSAY Au	ANALYTICAL Fractures Surface	ANALYTICAL Mineralization
Reheated ox zone from 999-1003	990											
				990.8-1005.5	14.7	13.9		12.2				
	1000											
(1005.5-1024.5) Mod. fractured quartzite. Generally same as previous 12 runs. Minor quartz. (Cm) Unit at (1007-1010.) Most fracts appear admixing inferred. Totally unknown whether to have formed in zones of more severe / heated breccia / shatter zones.	1010	45	(1005.5-1024.5) Total FeS2 ~ 5-7% disem & in heated fracts.								PR J4	FeS2
		40									PR J4	FeS2
		45									PR J4	FeS2
More Qtz units from 1017 to 1024.5.				1005.5-1024.5	19.0	18.0		14.2				
	1020											
(1024.5-1043) (12 runs) Mod. to heavily fract (Rattlesnake?) TD. Overall TD make shattered and/or brecciated & partially reheated w/ FeS2. Moderate Qtz units .25 cm to 1.5 cm wide throughout. run-esp 1034-1043. Zones of "bleached" porary and/or finer grained sordary throughout. Numerous / moderately altered, sub-angular to sub-round. 1cm to 7cm. HE scarce xpals found. Shatter zones. Distinction between Rattlesnake & Dakota Mind TD difficult from ~990 to TD.	1030	F	1024.5-1043) Total FeS2 ~ 7-10% disem & in heated fracts. Epidote also some fracts throughout runs. " "	1035.9-1043	11.4	10.4		9.4			RS J4	FeS2
		60										
		60									RS J4	FeS2
	1040				7.1	6.7		0.0				
		F										
		T.D 1043										

Bondar-Clegg, Inc.
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Geochemical Lab Report

BROHM MINING CORP.
MR. JIM BARRON
P.O. BOX 485
DEADWOOD, SD
57732

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Bondar-Clegg, Inc.
12980 West Cedar Dr.
Lakewood, Colorado 80228
(303) 989-1404

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Geochemical Lab Report

REPORT: 499-0274 (COMPLETE)

REFERENCE INFO: NONE LISTED

CLIENT: BROHM MINING CORP.
PROJECT: NONE LISTED

SUBMITTED BY: J. BARRON
DATE PRINTED: 7-APR-89

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	30	0.02 OPT		
2	Au	Gold	30	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	30	2 -150	30	Assay Prep	30

REPORT COPIES TO: MR. JIM BARRON
MR. JIM BARRON

INVOICE TO: MR. JIM BARRON

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Geochemical Lab Report

REPORT: 499-0274

PROJECT: NONE LISTED PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Au OPT
D2 D89-72-841-842		0.09	0.042
D2 D89-72-845-845.7		0.06	0.020
D2 D89-72-848.3-849.5		0.06	0.021
D2 D89-72-931.2-932.2		0.03	0.010
D2 D89-72-934.8-935.4		<0.02	0.007
D2 D89-72-937.5-938.4		0.03	0.004
D2 D89-72-940.3-941.6		0.04	0.009
D2 D89-72-944.9-945.7		0.03	0.005
D2 D89-72-948.5-949.1		0.03	0.006
D2 D89-72-951.5-952.6		0.03	0.004
D2 D89-72-955.3-957.7		0.03	0.005
D2 D89-72-961.3-962.2		0.03	0.009
D2 D89-72-965-965.8		<0.02	0.006
D2 D89-72-968.7-969.8		0.06	0.025
D2 D89-72-972.6-973.7		0.07	0.039
D2 D89-72-975.8-977		0.04	0.029
D2 D89-72-980-980.9		0.03	0.006
D2 D89-72-983.9-984.9		0.04	0.013
D2 D89-72-988.1-989.5		0.10	0.032
D2 D89-72-993.3-994		0.09	0.029
D2 D89-72-997.7-998.5		0.04	0.018
D2 D89-72-1001.9-1002.9		0.04	0.022
D2 D89-72-1007.9-1008.7		<0.02	0.008
D2 D89-72-1012-1013.3		0.04	0.012
D2 D89-72-1017.3-1018.2		0.04	0.006
D2 D89-72-1023-1024.5		0.23	0.029
D2 D89-72-1027.6-1028.4		0.09	0.039
D2 D89-72-1031.3-1032.3		<0.02	0.003
D2 D89-72-1035.9-1036.6		0.09	0.003
D2 D89-72-1039-1040		0.76	0.033

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Geochemical Lab Report

REPORT: 499-0273 (COMPLETE)

REFERENCE INFO: NONE LISTED

CLIENT: BROHM MINING CORP.
PROJECT: NONE LISTED

SUBMITTED BY: J. BARRON
DATE PRINTED: 6-APR-89

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	30	0.02 OPT		
2	Au	Gold	30	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	30	2 -150	30	Assay Prep	30

REPORT COPIES TO: MR. JIM BARRON
MR. JIM BARRON

INVOICE TO: MR. JIM BARRON

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(303) 989-1404

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Geochemical Lab Report

REPORT: 499-0273

PROJECT: NONE LISTED PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Au OPT	
D2 D89-72-302.9-303.9		0.10	0.054	
D2 D89-72-306.7-307.7		0.04	0.044	8.3' @ .053
D2 D89-72-310.4-311.2		0.04	0.060	
D2 D89-72-313.7-314.3		0.06	0.018	
D2 D89-72-319-320.5		0.04	0.013	
D2 D89-72-452.6-453.7		<0.02	0.014	
D2 D89-72-493.2-494.4		0.03	0.008	
D2 D89-72-497-498		0.06	0.010	
D2 D89-72-500.9-501.7		0.03	0.025	
D2 D89-72-505.9-507		0.04	0.021	6.1' @ .023
D2 D89-72-602.7-603		0.13	0.025	
D2 D89-72-605.7-606.6		0.03	0.046	
D2 D89-72-609.8-610.3		0.07	0.054	15.3' @ .035
D2 D89-72-612.9-614.1		0.04	0.021	
D2 D89-72-616.5-618		0.92	0.027	
D2 D89-72-783.2-783.8		0.06	0.024	
D2 D89-72-786.9-787.7		0.04	0.048	4.5' @ .036
D2 D89-72-790.4-791.3		0.09	0.014	
D2 D89-72-795.2-796.3		0.04	0.012	
D2 D89-72-800-800.6		<0.02	<0.002	
D2 D89-72-802.8-803.5		<0.02	0.004	
D2 D89-72-804.9-805.9		0.03	<0.002	
D2 D89-72-808.4-809		<0.02	0.063	
D2 D89-72-811.5-812		0.10	0.067	
D2 D89-72-814.6-815.4		0.03	0.019	
D2 D89-72-817.1-818.7		0.07	0.016	
D2 D89-72-821-822.2		0.04	0.020	
D2 D89-72-825-826		<0.02	0.004	
D2 D89-72-832.8-833.7		0.03	0.008	
D2 D89-72-836.9-838.1		0.06	0.027	

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BROHM MINING CORP.
MR. JIM BARRON
P.O. BOX 485
DEADWOOD, SD
57732

Invoice : 13994, Page 1
Date : 12-APR-89
Report No: 499-0273
Project : NONE LISTED
Reference: NONE LISTED

30 Analyses of Au/Ag Assay Gold Silver	at $ 8.25	$ 247.50	$ 247.50
Sample Preparation			
30 Samples of Assay Prep	at $ 3.00	$ 90.00	
Subtotal		$ 90.00	$ 90.00
Miscellaneous Charges			
4% S.D. STATE SALES TAX		$ 2.40	
2% DEADWOOD CITY SALES TAX		$ 1.20	
Subtotal		$ 3.60	$ 3.60
Invoice Total:			$ 341.10 U.S.

10

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Geochemical Lab Report

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Geochemical Lab Report

REPORT: 499-0274 (COMPLETE)

REFERENCE INFO: NONE LISTED

CLIENT: BROHM MINING CORP.
PROJECT: NONE LISTED

SUBMITTED BY: J. BARRON
DATE PRINTED: 7-APR-89

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	30	0.02 OPT		
2	Au	Gold	30	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	30	2 -150	30	Assay Prep	30

REPORT COPIES TO: MR. JIM BARRON
MR. JIM BARRON

INVOICE TO: MR. JIM BARRON

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Lakewood, Colorado 80228
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Geochemical Lab Report

REPORT: 499-0274

PROJECT: NONE LISTED

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Au OPT
D2 D89-72-841-842		0.09	0.042
D2 D89-72-845-845.7		0.06	0.020
D2 D89-72-848.3-849.5		0.06	0.021
D2 D89-72-931.2-932.2		0.03	0.010
D2 D89-72-934.8-935.4		<0.02	0.007
D2 D89-72-937.5-938.4		0.03	0.004
D2 D89-72-940.3-941.6		0.04	0.009
D2 D89-72-944.9-945.7		0.03	0.005
D2 D89-72-948.5-949.1		0.03	0.006
D2 D89-72-951.5-952.6		0.03	0.004
D2 D89-72-955.3-957.7		0.03	0.005
D2 D89-72-961.3-962.2		0.03	0.009
D2 D89-72-965-965.8		<0.02	0.006
D2 D89-72-968.7-969.8		0.06	0.025
D2 D89-72-972.6-973.7		0.07	0.039
D2 D89-72-975.8-977		0.04	0.029
D2 D89-72-980-980.9		0.03	0.006
D2 D89-72-983.9-984.9		0.04	0.013
D2 D89-72-988.1-989.5		0.10	0.032
D2 D89-72-993.3-994		0.09	0.029
D2 D89-72-997.7-998.5		0.04	0.018
D2 D89-72-1001.9-1002.9		0.04	0.022
D2 D89-72-1007.9-1008.7		<0.02	0.008
D2 D89-72-1012-1013.3		0.04	0.012
D2 D89-72-1017.3-1018.2		0.04	0.006
D2 D89-72-1023-1024.5		0.23	0.029
D2 D89-72-1027.6-1028.4		0.09	0.039
D2 D89-72-1031.3-1032.3		<0.02	0.003
D2 D89-72-1035.9-1036.6		0.09	0.003
D2 D89-72-1039-1040		0.76	0.033

34.2' @ .024

17' @ .021

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BROHM MINING CORP.
MR. JIM BARRON
P.O. BOX 485
DEADWOOD, SD
57732

Invoice : 13990, Page 1
Date : 12-APR-89
Report No: 499-0274
Project : NONE LISTED
Reference: NONE LISTED

30 Analyses of Au/Ag Assay Gold Silver	at $ 8.25	$ 247.50	$ 247.50
Sample Preparation			
30 Samples of Assay Prep	at $ 3.00	$ 90.00	
Subtotal		$ 90.00	$ 90.00
Miscellaneous Charges			
4% S.D. STATE SALES TAX		$ 2.40	
2% DEADWOOD CITY SALES TAX		$ 1.20	
Subtotal		$ 3.60	$ 3.60
Invoice Total:			$ 341.10 U.S.

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Geochemical Lab Report

BROHM MINING CORP.
MR. JIM BARRON
P.O. BOX 485
DEADWOOD, SD
57732

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Geochemical Lab Report

REPORT: 499-0273 (COMPLETE)

REFERENCE INFO: NONE LISTED

CLIENT: BROHM MINING CORP.
PROJECT: NONE LISTED

SUBMITTED BY: J. BARRON
DATE PRINTED: 6-APR-89

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Ag	Silver	30	0.02 OPT		
2	Au	Gold	30	0.002 OPT		Fire Assay

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
D DRILL CORE	30	2 -150	30	Assay Prep	30

REPORT COPIES TO: MR. JIM BARRON
MR. JIM BARRON

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BONDAR-CLEGG

Geochemical Lab Report

REPORT: 499-0273

PROJECT: NONE LISTED

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Au OPT
D2 D89-72-302.9-303.9		0.10	0.054
D2 D89-72-306.7-307.7		0.04	0.044
D2 D89-72-310.4-311.2		0.04	0.060
D2 D89-72-313.7-314.3		0.06	0.018
D2 D89-72-319-320.5		0.04	0.013
D2 D89-72-452.6-453.7		<0.02	0.014
D2 D89-72-493.2-494.4		0.03	0.008
D2 D89-72-497-498		0.06	0.010
D2 D89-72-500.9-501.7		0.03	0.025
D2 D89-72-505.9-507		0.04	0.021
D2 D89-72-602.7-603		0.13	0.025
D2 D89-72-605.7-606.6		0.03	0.046
D2 D89-72-609.8-610.3		0.07	0.054
D2 D89-72-612.9-614.1		0.04	0.021
D2 D89-72-616.5-618		0.92	0.027
D2 D89-72-783.2-783.8		0.06	0.024
D2 D89-72-786.9-787.7		0.04	0.048
D2 D89-72-790.4-791.3		0.09	0.014
D2 D89-72-795.2-796.3		0.04	0.012
D2 D89-72-800-800.6		<0.02	<0.002
D2 D89-72-802.8-803.5		<0.02	0.004
D2 D89-72-804.9-805.9		0.03	<0.002
D2 D89-72-808.4-809		<0.02	0.063
D2 D89-72-811.5-812		0.10	0.067
D2 D89-72-814.6-815.4		0.03	0.019
D2 D89-72-817.1-818.7		0.07	0.016
D2 D89-72-821-822.2		0.04	0.020
D2 D89-72-825-826		<0.02	0.004
D2 D89-72-832.8-833.7		0.03	0.008
D2 D89-72-836.9-838.1		0.06	0.027

DATE 7-3-89

Luisier Well Drilling, Inc.

DRILLER Rich

HOLE NO. D89-72

HELPER Tur

BIT SIZE 10" 8 5/8"

SAMPLER Bob

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			8:00	run water line to rig
			9:30	Go to Rapid City to get fittings for 2" water line
			1:30	get load of water
1 hr			2:30	return & service equip
			6:00	set up to drill 10" hole
			6:30	drill 10" hole
			7:30	set 9" pipe set up for 8 5/8 fix tee
			10:00	end shift

DATE 1-3-89

Luisier Well Drilling, Inc.

DRILLER Rick

HOLE NO. 089-72 strobe 11. 9" pipe 21'8"

HELPER Jay

BIT SIZE 10" 8 5/8"

SAMPLER Bob

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			6:30	drill 10" hole for 9" pipe
			8:00	~~set~~ set pipe get set up for 8 5/8
			10:00	end a shift

16'8" pipe 9"

DATE 1-3-/1-4-89

Luisier Well Drilling, Inc.

DRILLER [illegible]

HOLE NO. D 89-72

HELPER [illegible]

BIT SIZE

SAMPLER

st 8:00 A.M.
1-3-89

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		8:30	[illegible]
			set back 7 [illegible] full pipe
		12:30	[illegible] 4" down
			10" to 6" to 21' set 21' 9" pipe
		3:00	[illegible] to drill 8 5/8 [illegible]
		3:30	21' start 8 5/8" drill
			37' drill [illegible] all working
		4:30	cant drill pull tools
		5:30	end shift

DATE 1-4-89

Luisier Well Drilling, Inc.

DRILLER Rick

HOLE NO. DV9-72

HELPER Lu

BIT SIZE 10" 8 5/8

SAMPLER Bob

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			8:00	try to pull 9" pipe out
			9:30	no success pick up
				equip move off hole
				wait to see were to move
			5:00	set up equip & drill
				10" hole
			7:15	set 8" pipe weld on tee
				& flange choke
			8:40	End of lift

09

DATE 1-4-/1-5-89

Luisier Well Drilling, Inc.

DRILLER Kelly

HOLE NO. D89-72

HELPER Don

BIT SIZE 8" hammer

SAMPLER James

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		8:00	change to 8" hammer
	29'	9:00	start to drill 8" hole drill
			to 60' hit water bit &
			pull rods by change 8" bit
			repair 8" ~~[illegible]~~ tee
	60'	12:00	restart 8" ~~to~~ drilling
	150'	2:00	work on orig air. regulator
			for high pressure air and
			change K7 filter
	150'	3:30	restart 8" hole
		4:30	go for drill rod & water
			(water 1 hour)
	200'	6:00	restart 8" hole
	300	7:00	blow to clean hole no water
			in hole
		7:15	pull rods
		8:00	end shift

5 gal foam

DATE 1-5-89

Luisier Well Drilling, Inc.

DRILLER Rich

HOLE NO. 089-72

HELPER Tex

BIT SIZE 6" core

SAMPLER Bob

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		8:00	start shift ream hole
			barrel R run rock
45 min		11:30	At bottom go for load
			of water
R	300'	12:15	start coring
	320.5	2:00	end run pull rods
		3:00	change chake in hammer
		3:40	back fill hole
		4:15	run rods
	320.5	5:45	restart 8" hole
	450	8:00	End 8" hammer at 450
			clean hole pull rods
		8:15	go for load of water
		8:45	End shift

440' to 450 soft picked up some water 10 gpm.

DATE 1-5/1-689 **Luisier Well Drilling, Inc.** DRILLER Kirk

HOLE NO. D89-72 HELPER Don

BIT SIZE 6" core & 8" hammer SAMPLER Jon

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		8:45	pull rods & dump to core
		9:46	service rig
		10:00	run rods
	450'	11:47	start run {new bit}
463'	[illegible]	1:07	end run & blow to clean hole {blow off}
		1:17	pull rod 20 gpm water
		2:15	dump core 9' recover - ~~[illegible]~~
			~~[illegible]~~.
			new bit to run groove in face
		3:00	run rod with hammer
	463'	4:17	
	480'	5:30	do 50 hour service work
			on new rig
		5:30	go for water
		5:45	end water
		8:00	end shift

new bit 2H1828 on C drill
7 gal foam

DATE 1-6-89

Luisier Well Drilling, Inc.

DRILLER Rich

HOLE NO. D89-22

HELPER Tex

BIT SIZE 6" core

SAMPLER Bob

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		8:00	start slift pull rods
		10:00	run rods
	490'		
R	~~478~~	11:00	start coring
	510'	12:45	end run clean hole pull rods
		1:56	run rods
		3:00	resume 8" hammer drilling
	510		3' of core left in hole
	600	5:30	hammer to 600' clean hole pull rods
	1hr ~~45~~ min	6:45	run rods go for water 8:00 return
		8:00	ream hole and slift

Bard C New bit
#2H-3045

DATE 1-6-7-89

Luisier Well Drilling, Inc.

DRILLER Keith

HOLE NO. D89-72

HELPER Don

BIT SIZE

SAMPLER James

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		8:00	ream hole
		9:30	new rig discharge temp overheating pull rock
		10:30	pick up and put tools away
		12:30	End shift

DATE 1-7-89

HOLE NO. 89-12

BIT SIZE 8" 6" core

Luisier Well Drilling, Inc.

Rich 5.0 hrs
Tex 5.0 " "
Bob 3.5 " "
James 1.5

DRILLER Rich

HELPER Tex James

SAMPLER Bob

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			8:00	rig overhauling
				windy cold
			11:30	go into town visit for
				Ken & Keith
			1:30	return to rig put on
				heater
			3:00	go back to town
				End shift

DATE 1-8-89

Luisier Well Drilling, Inc.

DRILLER Rick-Keith

HOLE NO. DP-72

Keith 5 hrs
Don 5 hrs
James 5 hrs

HELPER Tex-Don

BIT SIZE 6" core

SAMPLER James

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		9:30	get heater hooked up & service rig
1 hr		3:30	run rods go for water
		4:30	return water ream hole
R	600'	5:30	start coring
		7:00	go for water
	613'	8:00	return water End shift

DATE 1-8-9-89

Luisier Well Drilling, Inc.

DRILLER Dow

HOLE NO. D89-72

HELPER James

BIT SIZE 6" core

SAMPLER

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			8:00	FINISH CORING 630' (18' CORE)
			8:30	PULL RODS
			12:30	HAMMER DRILL
			4:10	GO FOR WATER + RODS
			7:30	HAMMER TO 750' PULL RODS
			9:00	END SHIFT

DATE 1-9-89

Luisier Well Drilling, Inc.

DRILLER Rich

HOLE NO. D89-22

HELPER Jay

BIT SIZE 6" core

SAMPLER Bob

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			8:00	start shift pull rods
			9:30	run rods
			10:30	ream hole with barrel 620 to 780
			12:45	go for water 1:45 return
			2:00	continue to ream hole
			3:30	water inj broke take it off rig drain lines
			5:00	End shift

DATE 1-10-89

HOLE NO. D89-72

BIT SIZE 6" core

Luisier Well Drilling, Inc.

DRILLER Rich

HELPER Tex

SAMPLER Bob

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			10:00	Start shift service rig
			12:30	run rods
			1:30	resume reaming hole to 780
R	780'		2:00	start coring
	800'		3:40	end run
			3:45	pull rods
			4:50	change barrels
			5:10	run rods
			6:30	ream hole from 700 to 800 new bit barrel C
C	800'		7:30	start coring
	802		8:00	end shift

DATE 1-10-1-11-89

Luisier Well Drilling, Inc.

DRILLER DON

HOLE NO. D59-72

HELPER JAMES

BIT SIZE 6" CORE

SAMPLER

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
C	802		8:00	CORE FROM 802 (GOT 10')
	811		9:45	BLOCKED OFF, PULL RODS
			11:30	RUN RODS
K	811		[redacted] 1:15	
	830		4:11	PULL RODS (GOT 18.8')
			5:40	RUN RODS
			7:00	REAM TO BOTTOM
C	830		7:30	
	831		8:00	END SHIFT

DATE 1-11-89 **Luisier Well Drilling, Inc.** DRILLER Art

HOLE NO. P89-72 HELPER Lex

BIT SIZE 6" core 8" hammer SAMPLER Bob

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			8:00	start shift
C	831'		8:00	started coring
	849.5		11:10	end run
			11:20	pull rods
			12:35	empty barrel wait to see what they want to do getting some stuff in hole, Lance sick
			1:30	put new 8" bit on hammer
			1:55	run rods
			3:45	start 8" hammer 850 to 930
			7:22	clean hole
			7:45	pull rods
			8:00	end shift

5 gal foam

DATE 1-11-12-89

Luisier Well Drilling, Inc.

DRILLER DON

HOLE NO. D89-72

HELPER JAMES

BIT SIZE 6" CORE

SAMPLER

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			8:00	PULL RODS
			9:15	DRILLTECH MECHANICS RIG TEST
			9:50	RUN RODS
			11:10	REAM TO BOTTOM
Be	928		1:37	
	948		5:18	PULL RODS
			7:05	RUN RODS
			8:00	END SHIFT

DATE 1-12-89

Luisier Well Drilling, Inc.

DRILLER Pat

HOLE NO. D89-72

HELPER Ty

BIT SIZE 6" core

SAMPLER Bob

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		8:00	start shift run rods
R	948'	8:40	start coring
	951.5	10:30	end run air blocking off
		10:50	water line shut off get water running
		11:30	resume pulling rods
C	951.5	2:30	start coring
	957.7	4:45	barrel blocked end run
		4:50	pull rods
		6:00	no forward rotation call mechanic
		7:15	pull rest of rods & change barrels
		7:35	run rods ream in spots
		8:00	End shift

100 gpm water
Tonto borrowed 5 ~~bags~~ bags mud
take bit # 204322 off barrel R put on 2H-3044

DATE 1-12-13-89

Luisier Well Drilling, Inc.

DRILLER Don

HOLE NO. D89-72

HELPER James

BIT SIZE 6" core

SAMPLER

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			8:00	Run rock ream hole from 250' to 957.7
R	957.7		11:37	start coring
	977.7		3:00	end run pull rods
			4:30	run rods
C	977.7		7:45	start coring
	979			
			8:00	End shift

22' core

DATE 7-13-89

Luisier Well Drilling, Inc.

DRILLER Rich

HOLE NO. DB9-72

HELPER Ted

BIT SIZE 6" core

SAMPLER

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		8:00	start slift
C	979	~~[illegible]~~ 7:45	
	997	12:15	end run
		9:00	change hoses on fan
		9:30	resume coring
		12:15	end run pullrods
		1:30	change barrels & service rig
		2:30	run rods
		4:00	drill over stick up 5'
R	997	4:05	start coring
	1009	6:50	end run pull rods
		8:45	end slift

DATE 1-13-14-89

Luisier Well Drilling, Inc.

DRILLER Don

HOLE NO. D89-22

HELPER James

BIT SIZE 6" core

SAMPLER

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH	WATCH TIME	REMARKS
		8:00	pull rods
		9:00	run rods
C	1009	10:53	4.5' of stick up start coring
	1024.5	12:40	end run pull rods
		2:30	run rods
R	1024.5	4:00	start coring
		4:20	rig shut down
		4:30	resume coring
	1035	5:00	barrel blocked pull rods
		6:30	empty barrel & service rig
		8:00	end shift

DATE 7-14-89

Luisier Well Drilling, Inc.

DRILLER Rich

HOLE NO. D89-72

HELPER Tex

BIT SIZE 6" core

SAMPLER

QUICK GEL	QUICK TROL	QUICK FOAM

ROD NO.	DEPTH		WATCH TIME	REMARKS
			8:00	start shift run rods
			10:30	drill over 5' stick up
	1035		10:40	start coring
	1043		12:15	end run pull rods
			1:30	empty barrel
			2:00	try to pull pipe Don & James no success
			2:30	get set up to mud hole
			5:00	pick up equip
			8:00	end shift

12' core

13 mud
16 gran

10 bags mud
bonto