BAKER HUGHES

Baker Atlas

Segmented Bond Log Gamma Ray

File No: 558245	Company	Inergy Midstream LLC	
API No: 31-097-61200	Well	44	
	Field	US Salt	
	County	Schuyler	State New York
	Location Twp: Reading		Other Services
	SEC N/A	TWP	RGE N/A
Permanent Datum	G.L.	Elevation	Elevations
Log Measured From	C.H.	1 ft Above P.D.	KB N/A
Drill Measured From	K.B.		DF N/A
			GL N/A

Date	27-January-2009	
Run	One	
Service Order	558425	
Depth Driller	2422 ft	
Depth Logger	Not Tagged	
Bottom Logged Interval	2200 ft	
Top Logged Interval	22 ft	
Time Started	10:00	
Time Finished	13:00	
Operator Rig Time	3 hrs	
Type of Fluid in Hole	Brine Water	
Fluid Density	N/A	
Salinity	N/A	
Fluid Level	Full	
Logged Cement Top	775 ft	
Wellhead Pressure	0 psi	
Maximum Hole Deviation	N/A	
Nominal Logging Speed	20 fpm	
Maximum Recorded Temperature	N/A	
Reference Log	N/A	
Reference Log Date	N/A	
Equipment No. / Location	6460	Buckhannon, WV
Recorded By	Clinton Pernack	
Witnessed By	Mr. Barry Moon	

FOLD HERE

In making interpretations of logs, our employees will give the customer the benefit of their best judgement. But since all interpretations are opinions based on inferences from electrical or other measurements, we cannot, and we do not guarantee the accuracy or correctness of any interpretation. We shall not be liable or responsible for any loss, cost, damages, or expenses whatsoever incurred or sustained by the customer resulting from any interpretation made by any of our employees.

Borehole Record		
Bit Size	From	To
20 in	0 ft	68 ft

Casing Record				
Size	Weight	Grade	From	To
13.325 in	N/A	N/A	0 ft	68 ft
8.625 in	N/A	N/A	0 ft	2386 ft

Remarks

Thank you for choosing Baker Atlas.

Your crew today was: M. Wood, C. Pernack, M. Marsh, L. Bunner

N/A = Unknown

Equipment Data

Run	Trip	Tool	Series Number	Serial Number	Position
1	1	CCL	8346XA	81047	Centralized
1	1	GR	1309XA	179436	Centralized
1	1	TEL	1633EA	173911	Centralized
1	1	PADS	1424XB	115226	Centralized
1	1	VDL	1424PA	173932	Centralized

Normalization Pass

SBT NORMALIZATION RESULTS

CURVE	PARAMETER	VALUE	UNITS	TOP	BOTTOM	COMMENT
ATC1	seg1 cnormf1	0.000	db/ft	1759.000	2200.000	
ATC2	seg2 cnormf2	0.000	db/ft	1759.000	2200.000	
ATC3	seg3 cnormf3	0.000	db/ft	1759.000	2200.000	
ATC4	seg4 cnormf4	0.000	db/ft	1759.000	2200.000	
ATC5	seg5 cnormf5	0.000	db/ft	1759.000	2200.000	
ATC6	seg6 cnormf6	0.000	db/ft	1759.000	2200.000	
ATC1	seg1 dnormf1	0.399	db/ft	1759.000	2200.000	Good Confidence
ATC2	seg2 dnormf2	0.662	db/ft	1759.000	2200.000	Good Confidence
ATC3	seg3 dnormf3	-1.065	db/ft	1759.000	2200.000	Good Confidence
ATC4	seg4 dnormf4	0.156	db/ft	1759.000	2200.000	Good Confidence
ATC5	seg5 dnormf5	0.191	db/ft	1759.000	2200.000	Good Confidence
ATC6	seg6 dnormf6	-0.344	db/ft	1759.000	2200.000	Good Confidence

SBT PROCESSING

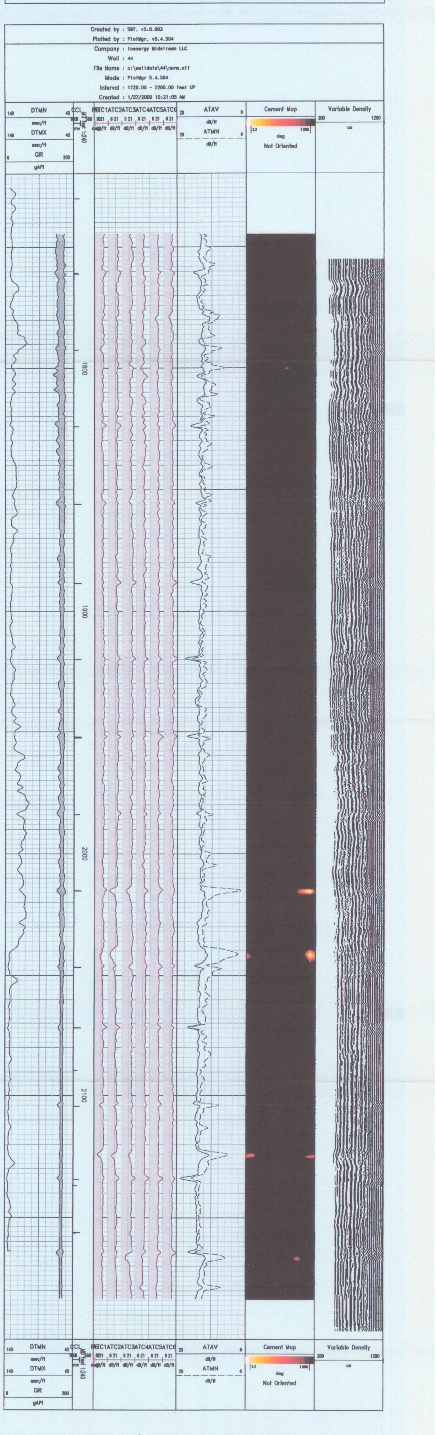
MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
amp	fpamp	61.325	mv	1743.568	2200.000
amp	fpattn	1.634	dB/ft	1743.568	2200.000
atc	dbspread	4.382	dB/ft	1743.568	2200.000
atc	spacing	0.685	feet	1743.568	2200.000
cemr	casing od	8.625	inches	1743.568	2200.000
cemr	casing wt	36.000	lbm/ft	1743.568	2200.000
cemr	compress	1500.000	psi	1743.568	2200.000
CN	Bit Size	7.875	inches	1759.000	2200.000
CN	Casing Thickness	0.404	inches	1743.568	2200.000
CN	Casing/Cement Correction	No		1759.000	2200.000
CN	CN Chism	No		1759.000	2200.000
CN	Matrix	Limestone		1759.000	2200.000
CN	Salinity	0.000	ppm	1759.000	2200.000

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
2346XA	-43.500	CCL					
1309XA	-34.557	GR					
1424XA	-15.432	ATC1	ATC2	ATC3	ATC4	ATC5	ATC6
		ATAV	ATMN	ATMX	AMAV	DEV	DTMN
		DTMX	RB	XATT	YATT		
1424PA	-4.070	CHV	CYQ	SIG			
2435XA	0.000	LSN					
2435XA	0.000	NEU	SSN				

Created by : SBT, v5.0.003
Plotted by : PlotMgr, v5.4.504
Company : Inenergy Midstream LLC
Well : 44
File Name : c:\welldata\44\norm.xtf
Mode : PlotMgr 5.4.504
Interval : 1720.00 - 2200.00 feet UP
Created : 1/27/2009 10:21:05 AM



Main Log 5"/100'

SBT NORMALIZATION RESULTS

CURVE	PARAMETER	VALUE	UNITS	TOP	BOTTOM	COMMENT
ATC1	seg1 cnormf1	0.399	db/ft	20.075	2200.515	
ATC2	seg2 cnormf2	0.662	db/ft	20.075	2200.515	
ATC3	seg3 cnormf3	-1.065	db/ft	20.075	2200.515	
ATC4	seg4 cnormf4	0.156	db/ft	20.075	2200.515	
ATC5	seg5 cnormf5	0.191	db/ft	20.075	2200.515	
ATC6	seg6 cnormf6	-0.344	db/ft	20.075	2200.515	
ATC1	seg1 dnormf1	0.118	db/ft	20.075	2200.515	Good Confidence
ATC2	seg2 dnormf2	-0.138	db/ft	20.075	2200.515	Good Confidence
ATC3	seg3 dnormf3	-1.353	db/ft	20.075	2200.515	Good Confidence
ATC4	seg4 dnormf4	0.612	db/ft	20.075	2200.515	Good Confidence
ATC5	seg5 dnormf5	0.654	db/ft	20.075	2200.515	Good Confidence
ATC6	seg6 dnormf6	0.107	db/ft	20.075	2200.515	Good Confidence

SBT PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
amp	fpamp	61.325	mv	4.643	2201.000
amp	fpattn	1.634	dB/ft	4.643	2201.000
atc	dbspread	4.382	dB/ft	4.643	2201.000
atc	spacing	0.685	feet	4.643	2201.000
cemr	casing od	8.625	inches	4.643	2201.000
cemr	casing wt	36.000	lbm/ft	4.643	2201.000
cemr	compress	1500.000	psi	4.643	2201.000
CN	Bit Size	7.875	inches	20.075	2200.515
CN	Casing Thickness	0.404	inches	4.643	2201.000
CN	Casing/Cement Correction	No		20.075	2200.515
CN	CN Chism	No		20.075	2200.515
CN	Matrix	Limestone		20.075	2200.515
CN	Salinity	0.000	ppm	20.075	2200.515

DEPTH OFFSETS

(for Acquired Curves)

SERIES	DEPTH OFFSET	ACQUIRED CURVES					
2346XA	-43.500	CCL					
1309XA	-34.557	GR					
1424XA	-15.432	ATC1	ATC2	ATC3	ATC4	ATC5	ATC6
		ATAV	ATMN	ATMX	AMAV	DEV	DTMN
		DTMX	RB	XATT	YATT		
1424PA	-4.070	CHV	CYQ	SIG			
2435XA	0.000	LSN					
2435XA	0.000	NEU	SSN				

Created by : SBT, v5.0.003
Plotted by : PlotMgr, v5.4.504
Company : Inenergy Midstream LLC
Well : 44
File Name : c:\welldata\44\main.xtf
Mode : PlotMgr 5.4.504
Interval : 0.00 - 2201.00 feet UP
Created : 1/27/2009 11:07:50 AM

Repeat Section

SBT NORMALIZATION RESULTS

CURVE	PARAMETER	VALUE	UNITS	TOP	BOTTOM	COMMENT
ATC1	seg1 cnormf1	0.399	db/ft	1979.750	2199.750	
ATC2	seg2 cnormf2	0.662	db/ft	1979.750	2199.750	
ATC3	seg3 cnormf3	-1.065	db/ft	1979.750	2199.750	
ATC4	seg4 cnormf4	0.156	db/ft	1979.750	2199.750	
ATC5	seg5 cnormf5	0.191	db/ft	1979.750	2199.750	
ATC6	seg6 cnormf6	-0.344	db/ft	1979.750	2199.750	
ATC1	seg1 dnormf1	0.184	db/ft	1979.750	2199.750	Good Confidence
ATC2	seg2 dnormf2	-0.460	db/ft	1979.750	2199.750	Good Confidence
ATC3	seg3 dnormf3	-1.732	db/ft	1979.750	2199.750	Good Confidence
ATC4	seg4 dnormf4	0.840	db/ft	1979.750	2199.750	Good Confidence
ATC5	seg5 dnormf5	1.414	db/ft	1979.750	2199.750	Good Confidence
ATC6	seg6 dnormf6	-0.247	db/ft	1979.750	2199.750	Good Confidence

SBT PROCESSING

MEASUREMENT TYPE	PARAMETER	VALUE	UNITS	TOP	BOTTOM
amp	fpamp	61.325	mv	1964.318	2200.000
amp	fpattn	1.634	dB/ft	1964.318	2200.000
atc	dbspread	4.382	dB/ft	1964.318	2200.000
atc	spacing	0.685	feet	1964.318	2200.000
cemr	casing od	8.625	inches	1964.318	2200.000
cemr	casing wt	36.000	lbm/ft	1964.318	2200.000
cemr	compress	1500.000	psi	1964.318	2200.000
CN	Bit Size	7.875	inches	1979.750	2199.750
CN	Casing Thickness	0.404	inches	1964.318	2200.000
CN	Casing/Cement Correction	No		1979.750	2199.750
CN	CN Chism	No		1979.750	2199.750
CN	Matrix	Limestone		1979.750	2199.750
CN	Salinity	0.000	ppm	1979.750	2199.750