J-W WIRELINE COMPANY

Company	BONANZA CREEK ENERGY, INC.
Well	ANTELOPE 14-20
Field	WATTENBERG
County	WELD
State	COLORADO

CEMENT BOND GAMMA RAY COLLAR CORRELATION LOG

Company BONANZA CREEK ENERGY, INC.
Well ANTELOPE 14-20
Field WATTENBERG
County WELD State COLORADO
Location: API #: 05-123-33715-00
772' FSL & 470' FWL
SW/SW
SEC 20 TWP 5N RGE 62W
Other Services PERF

Permanent Datum	GROUND LEVEL	Elevation 4673	Elevation K.B. 4683 D.F. 4682 G.L. 4673
Log Measured From	KELLY BUSHING		
Drilling Measured From	KELLY BHSHING		

Date	21-SEP-2011
Run Number	ONE
Depth Driller	6739
Depth Logger	6703
Bottom Logged Interval	6702
Top Log Interval	1708
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	---
Max. Recorded Temp.	224 F
Estimated Cement Top	1890
Time Well Ready	ROA
Time Logger on Bottom	---
Equipment Number	2337 / 1
Location	BRIGHTON
Recorded By	GREG JACKSON
Witnessed By	MS. BARB MARTIN

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4 1/2	11.6	SURFACE	TOTAL DEPTH
Liner				

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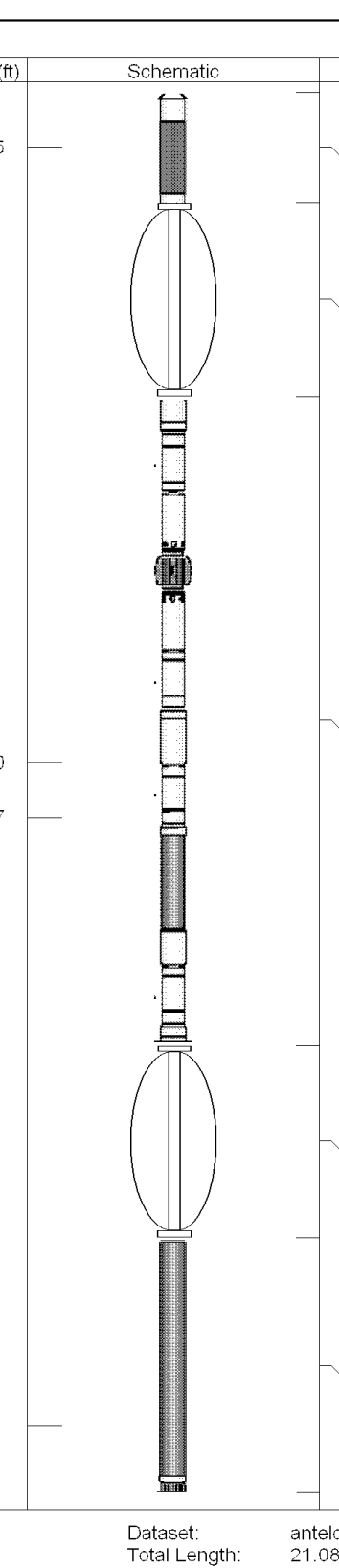
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

LOG CORRELATED TO HRI/CDN DATED 12-SEP-2011

THANK YOU FOR CHOOSING J-W WIRELINE

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	20.25		CCL-169TEKCO (169) 1 11/16" Tekco Logging	1.67	1.69	20.00
			CENT-TekCo (1 11/16 Adj.) (001) 1 11/16" Tekco Cent	2.92	1.69	10.00
WVF3	11.00		CBL-3-5tekco169 (1) 1 11/16 Tekco w/o Temp	9.75	1.69	70.00
WVF5	10.17					
			CENT-TekCo (1 11/16 Adj.) (002) 1 11/16" Tekco Cent	2.92	1.69	10.00
GR	1.00		GR-1.69TEKCO (576) 1 11/16 Tekco Logging GR	3.83	1.69	50.00

Dataset: antelope 14-20_cbl.db: field/well/run1/pass1
Total Length: 21.08 ft
Total Weight: 160.00 lb
O.D. 1.69 in

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MAIN PASS

Database File: antelope 14-20_cbl.db
Dataset Pathname: pass1.2
Presentation Format: cblx
Dataset Creation: Wed Sep 21 10:09:42 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

30 Gamma Ray (GAPI) 130
5 Collar Locator -0.25
300 TT3 (usec) 200
0 3' Amplitude (mV) 100
0 Amplified Amplitude (mV) 30
200 Variable Density 1200

30 Gamma Ray (GAPI) 130
5 Collar Locator -0.25
300 TT3 (usec) 200
0 3' Amplitude (mV) 100
0 Amplified Amplitude (mV) 30
200 Variable Density 1200

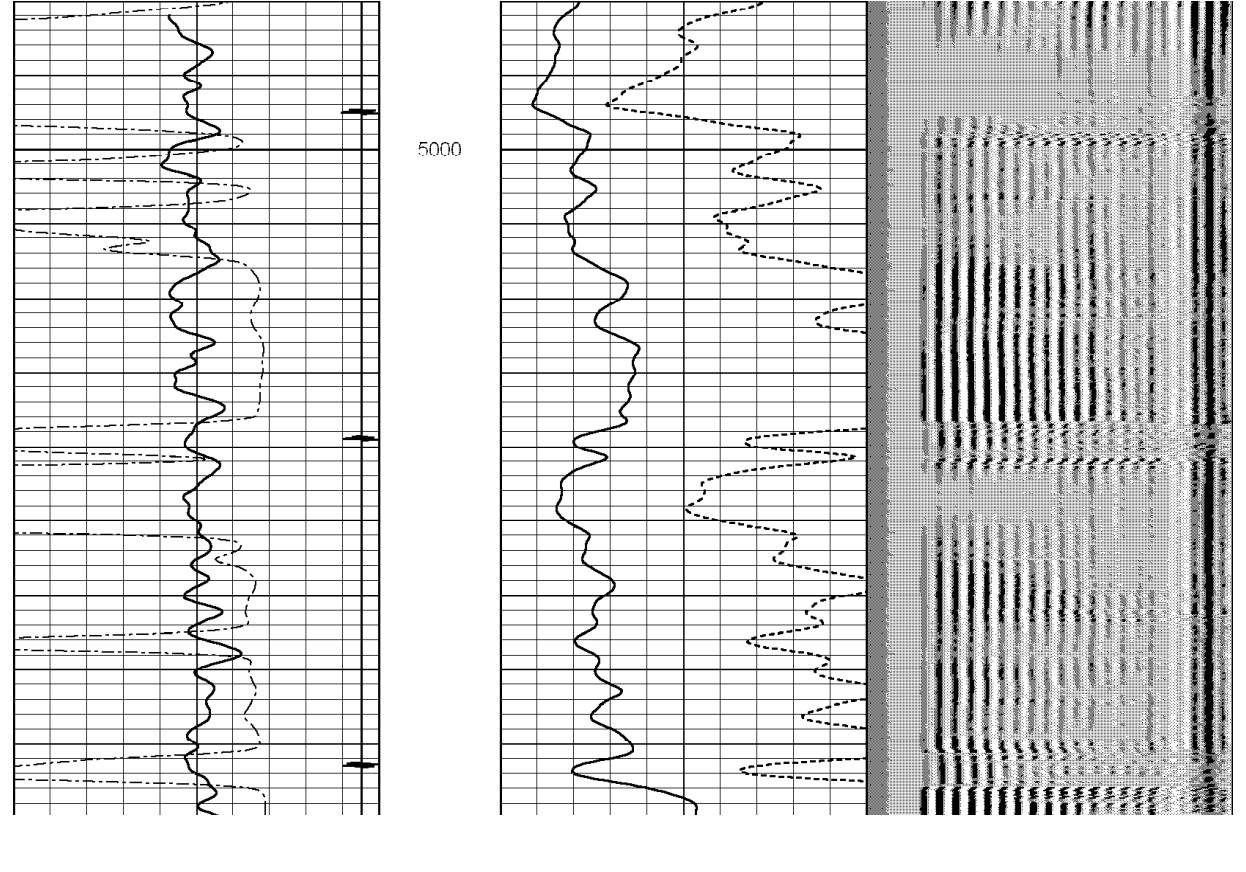
J-W WIRELINE COMPANY

MAIN PASS

LOG SPLIT FOR CORRELATION

Database File: antelope 14-20_cbl.db
Dataset Pathname: pass1.1
Presentation Format: cblx
Dataset Creation: Wed Sep 21 10:06:25 2011 by Calc Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

0 Gamma Ray (GAPI) 180
5 Collar Locator -0.25
300 TT3 (usec) 200
0 3' Amplitude (mV) 100
0 Amplified Amplitude (mV) 30
200 Variable Density 1200



Calibration Report

Database File: antelope 14-20_cbl.db
Dataset Pathname: pass1
Dataset Creation: Wed Sep 21 07:53:12 2011 by Log Std Casedhole 10121

Gamma Ray Calibration Report

Serial Number:	576	
Tool Model:	1.69TEKCO	
Performed:	Sun Jun 13 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	1		
Tool Model:	3-5tekco169		
Performed:	Wed Sep 21 07:33:37 2011		
Depth:	1878.03	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	3	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.34	0.03	V
Reading in Free Pipe:	2.3623	2.4426	V
Gain:	38.6668	33.655	
Offset:	-10.1467	-1.00965	