J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company BONANZA CREEK ENERGY INC.
Well ANTELOPE 42-31
Field WATTENBERG
County WELD State COLORADO
Location: API #: 05-123-32834-00
1980' FNL & 660' FEL
SE/NE
SEC 31 TWP 5N RGE 62W

Other Services
PERF

Permanent Datum	GROUND LEVEL	Elevation 4592	Elevation
Log Measured From	KELLY BUSHING		K.B. 4604
Drilling Measured From	KELLY BUSHING		D.F. 4603
			G.L. 4592

Company	BONANZA CREEK ENERGY INC.
Well	ANTELOPE 42-31
Field	WATTENBERG
County	WELD
State	COLORADO

Date	14-JUN-2011
Run Number	ONE
Depth Driller	6648
Depth Logger	6622
Bottom Logged Interval	6621
Top Log Interval	2090
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	224 F
Estimated Cement Top	2270
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2337/1
Location	BRIGHTON
Recorded By	GREG JACKSON
Witnessed By	MS. BARB MARTIN

Borehole Record

Run Number	Bit	From	To

Tubing Record

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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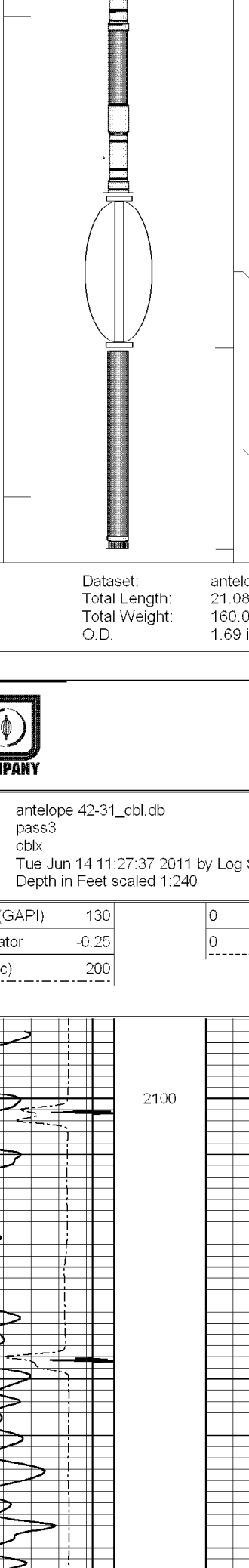
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 20-MAY-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 42-31_cbl.db: field/well/run1/pass2
Total Length: 21.08 ft
Total Weight: 160.00 lb
O.D. 1.69 in

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MAIN PASS

Database File: antelope 42-31_cbl.db
Dataset Pathname: pass3
Presentation Format: cblx
Dataset Creation: Tue Jun 14 11:27:37 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

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

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

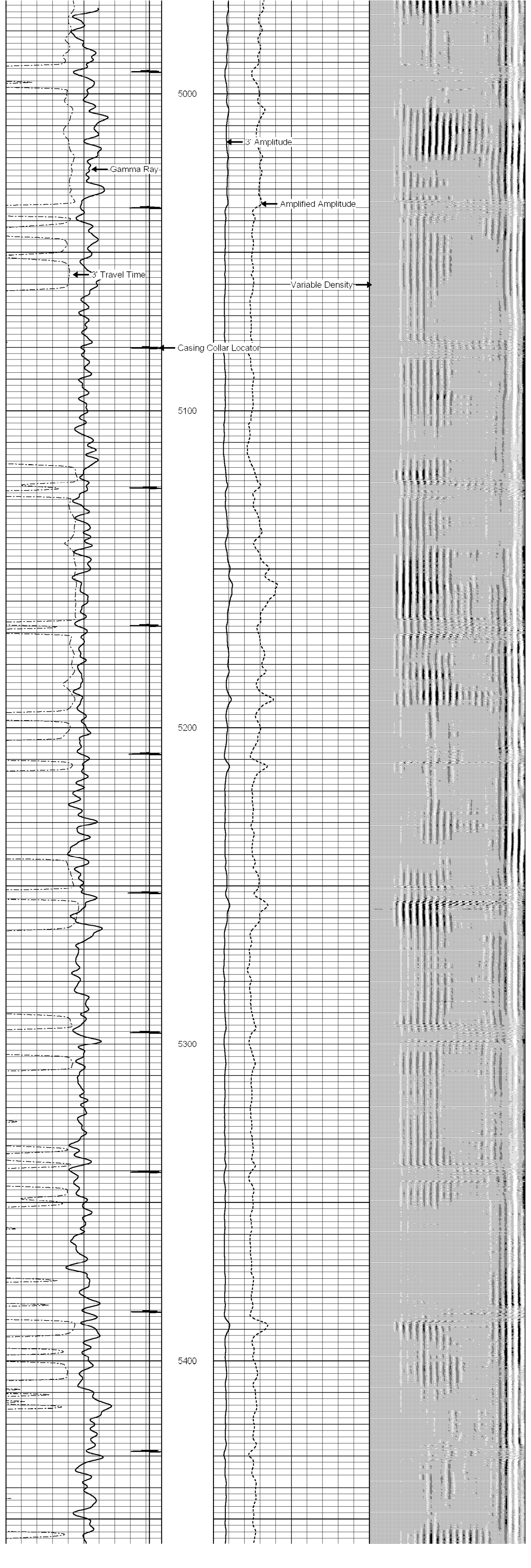
J-W WIRELINE COMPANY

MAIN PASS

LOG SPLIT FOR CORRELATION

Database File: antelope 42-31_cbl.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Tue Jun 14 11:03:08 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

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



Calibration Report

Database File: antelope 42-31_cbl.db
Dataset Pathname: pass2
Dataset Creation: Tue Jun 14 11:03:08 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:	Tue Jun 14 10:49:23 2011		
Depth:	2188.09	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:	0.03	0.03	V
Reading in Free Pipe:	1.18293	1.55227	V
Gain:	67.8235	53.3388	
Offset:	0.965294	-1.60016	