J-W WIRELINE COMPANY

CEMENT BOND GAMMA RAY COLLAR CORRELATION LOG

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

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Location: API #: 05-123-32841-00
1416' FSL & 1390' FEL
NW/SE
SEC 31 TWP 5N RGE 62W

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4558
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4570
D.F. 4569
G.L. 4558

Date	21-JUL-2011
Run Number	ONE
Depth Driller	6624
Depth Logger	6545
Bottom Logged Interval	6544
Top Log Interval	2300
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	---
Max. Recorded Temp.	224 F
Estimated Cement Top	2470
Time Well Ready	---
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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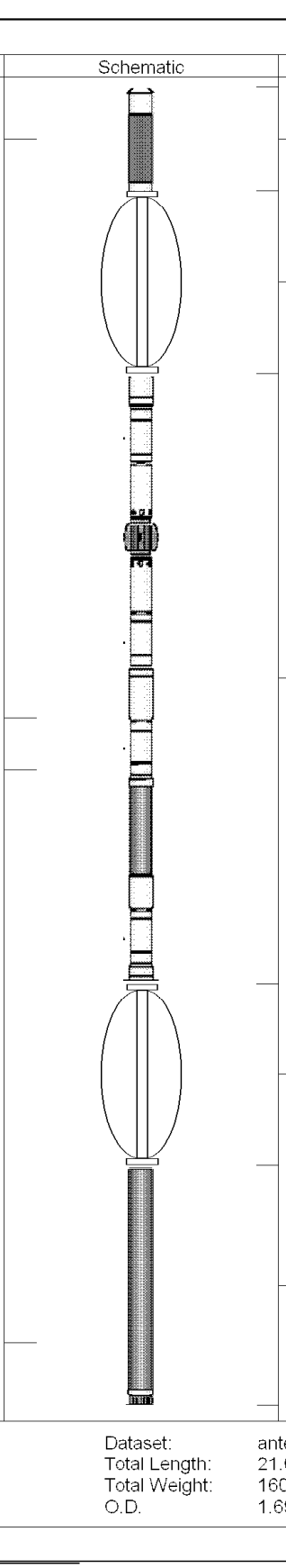
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 04-JUN-2011

THANK YOU FOR CHOOSING J-W WIRELINE



Sensor	Offset (ft)	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 WVF5	11.00 10.17	CBL-3-5tekco169 (1) 1 11/16 Tekco w/o Temp	9.75	1.69	70.00
		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 s 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 s 31_cbl.db
Dataset Pathname:	pass3
Presentation Format:	cblx
Dataset Creation:	Thu Jul 21 09:28:47 2011 by Log Std Casedhole 10121
Charted by:	Depth in Feet scaled 1:240

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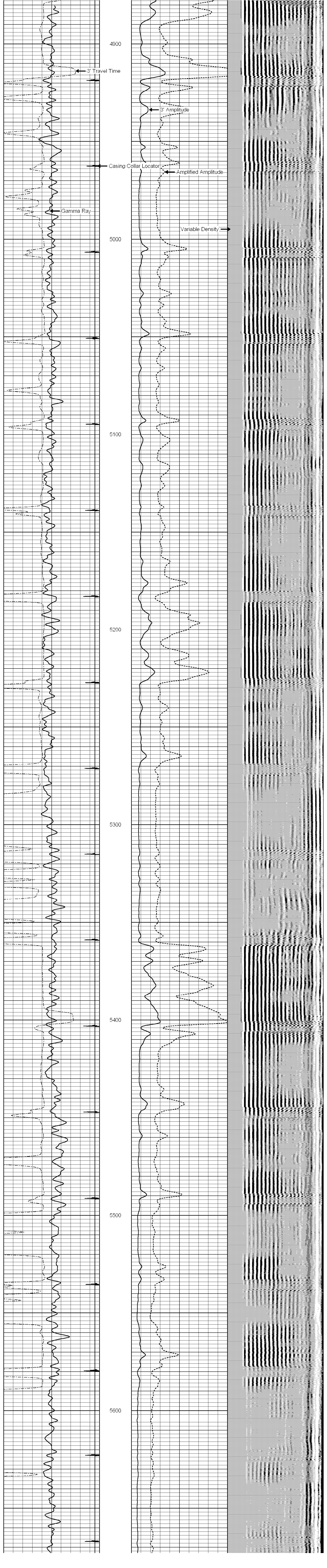
MAIN PASS

LOG SPLIT FOR CORRELATION

Database File:	antelope s 31_cbl.db
Dataset Pathname:	pass2
Presentation Format:	cblx
Dataset Creation:	Thu Jul 21 09:03:55 2011 by Log Std Casedhole 10121
Charted by:	Depth in Feet scaled 1:240



Calibration Report

Database File:	antelope s 31_cbl.db
Dataset Pathname:	pass2
Dataset Creation:	Thu Jul 21 09:03:55 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:	Thu Jul 21 09:00:28 2011		
Depth:	2430.18	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:	0.06	0.04	V
Reading in Free Pipe:	1.82988	2.30598	V
Gain:	44.1816	35.8326	
Offset:	0.349105	-1.43331	