J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	BONANZA CREEK OPERATING CO LLC
Well	ANTELOPE 23-17
Field	WATTENBERG
County	WELD
State	COLORADO

Company BONANZA CREEK OPERATING CO LLC
Well ANTELOPE 23-17
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-32884-000
SHL: 1300' FSL & 1320' FWL SE SW
BHL: 1991' FSL & 2022' FWL NE SW
SEC 17 TWP 5 N RGE 62 W

Other Services: PERF

Permanent Datum	GROUND LEVEL	Elevation	4642
Log Measured From	KELLY BUSHING		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 4654
D.F. 4653
G.L. 4642

Date	14-APR-2011
Run Number	ONE
Depth Driller	6770
Depth Logger	6696
Bottom Logged Interval	6695
Top Log Interval	2450
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	224
Estimated Cement Top	2909
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2337/2
Location	BRIGHTON
Recorded By	GREG JACKSON
Witnessed By	MR. KURT DODGE

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

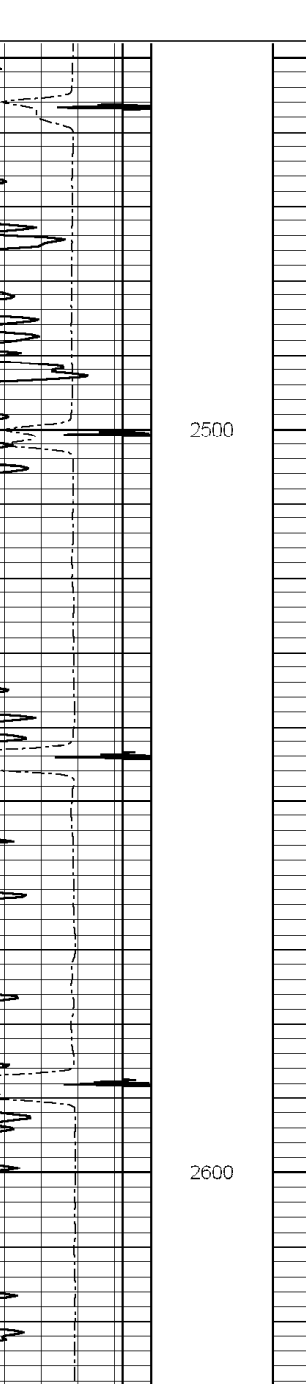
Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8 5/8	NA	SURFACE	434
Prot. String				
Production String	4 1/2	11.6	SURFACE	TOTAL DEPTH
Liner				

<<< Fold Here >>>

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 CDN/DIL DATED 30-MAR-2011
LOG SPLIT AT 5000' FOR CORRELATION PURPOSES

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 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 23-17_cbl.db: field/well/run1/pass1
Total Length: 21.08 ft
Total Weight: 160.00 lb
O.D. 1.69 in

J-W WIRELINE COMPANY

MAIN PASS

Database File: antelope 23-17_cbl.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Thu Apr 14 13:08:01 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

30	Gamma Ray (GAPI)	130
3	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
3	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

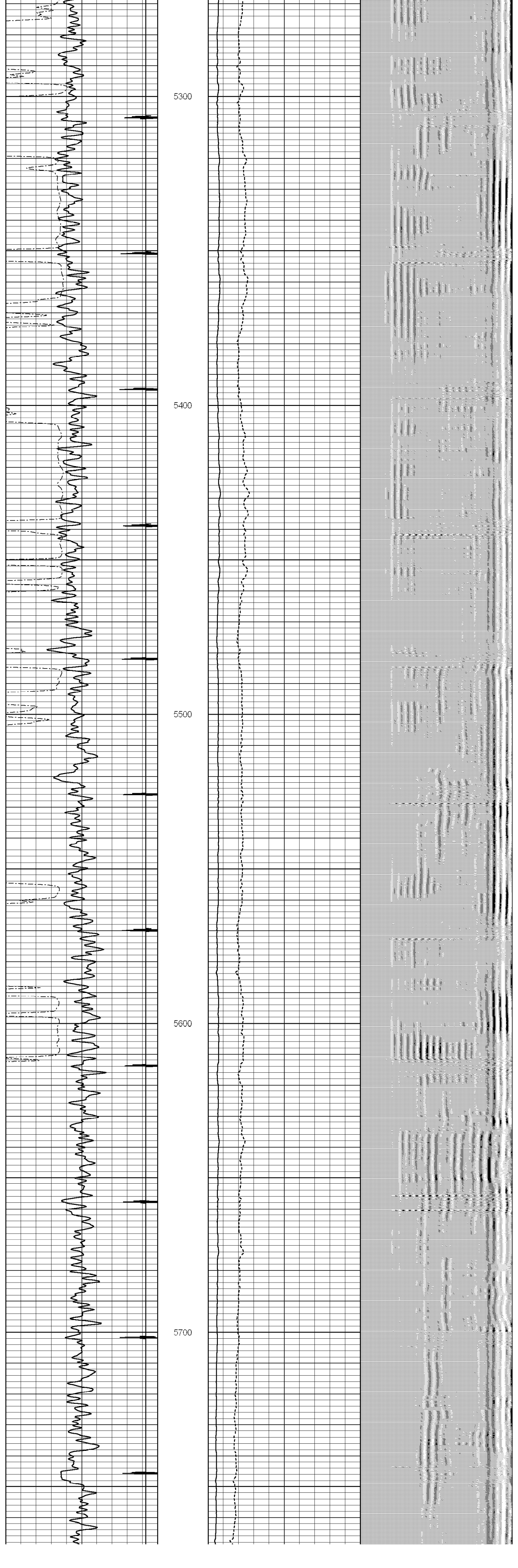
LOG SPLIT FOR CORRELATION

Database File: antelope 23-17_cbl.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Thu Apr 14 12:38:26 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	180
3	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 23-17_cbl.db
Dataset Pathname:	pass1
Dataset Creation:	Thu Apr 14 12:38:26 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 Apr 14 12:26:13 2011	
Depth:	2874.27	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:	1.15996	1.75149	V
Gain:	69.2025	47.1662	
Offset:	0.923924	-1.41499	