J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company BONANZA CREEK OPERATING CO. LLC
Well ANTELOPE 33-17
Field WATTENBERG
County WELD State COLORADO

Company	BONANZA CREEK OPERATING CO. LLC
Well	ANTELOPE 33-17
Field	WATTENBERG
County	WELD
State	COLORADO

Location: API #: 05-123-34087-0000
SHL: 2173' FSL & 849' FEL NESE
BHL: 1970' FSL & 2000' FEL NWSE
SEC 17 TWP 5N RGE 62W

Other Services
PERF

Permanent Datum GROUND LEVEL Elevation 4691
Log Measured From KELLY BUSHING (10 FT)
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4701
D.F. 4700
G.L. 4691

Date	24-OCT-2011
Run Number	ONE
Depth Driller	6920
Depth Logger	6842
Bottom Logged Interval	6841
Top Log Interval	770
Open Hole Size	7.875"
Type Fluid	WATER
Density / Viscosity	8.34#/GAL
Max. Recorded Temp.	235 DEGF
Estimated Cement Top	970
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	3011
Location	BRIGHTON, CO
Recorded By	SAM HOPPER
Witnessed By	BARB MARTIN

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"	24#	0	511
Prot. String				
Production String	4-1/2"	11.6#	0	6867
Liner				

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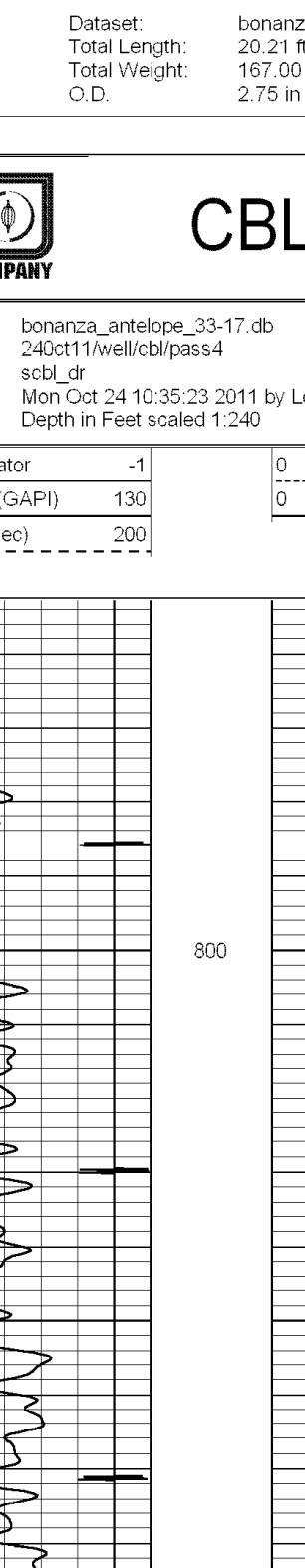
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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

DEPTH REF TO PSI TRIPPLE COMBO LOG DATED 4-OCT-2011.
LOG SPLIT FOR CORRELATION.
RUN CBL FROM PBTD TO 200' ABOVE CEMENT TOP.
CBL RAN AT -0- PSI SURFACE PRESSURE.
ESTIMATED CEMENT TOP AT 970'.

THANK YOU FOR CHOOSING J-W WIRELINE!!

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.56		CCL-275tekco (2.75TEKCO) 2.75" TEK CCL Earth Mag	1.96	2.75	20.00
			CENT-TEKCO (101)	2.73	2.75	10.00
TEMP	12.77					
WVFS1	11.48		275CTEKSECWTWSLCANS-275RIB (1239.13 2 3/4" (R.I.B.) TOOL 3FT, 5FT and 8EA RIB SIGNALS 400 DEG "F" @20K PSI With Sliding Cans For Pressure Ballance		2.75	102.00
WVFS2	11.48					
WVFS3	11.48					
WVFS4	11.48					
WVFS5	11.48					
WVFS6	11.48					
WVFS7	11.48					
WVFS8	11.48					
WVF3FT	10.73					
WVFCAL	10.73					
WVFSYNC	10.73					
WVF5FT	9.73					
WVFTEMP	6.40					
			CENT-TEKCO (101)	2.73	2.75	10.00
GR	1.06		GR-TEKCO (101SGR) 2.75 HIGH TEMP LOGGING GR	3.67	2.75	25.00

Dataset: bonanza_antelope_33-17.db: 24Oct11/well/cbl/pass4
Total Length: 20.21 ft
Total Weight: 167.00 lb
O.D. 2.75 in

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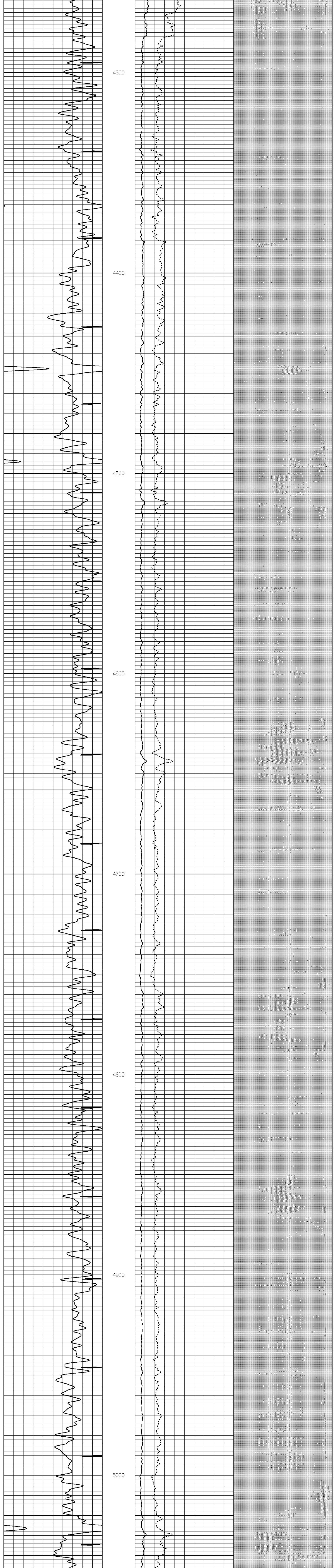
CBL Main Upper Section

Database File: bonanza_antelope_33-17.db
Dataset Pathname: 24Oct11/well/cbl/pass4
Presentation Format: scbl_dr
Dataset Creation: Mon Oct 24 10:35:23 2011 by Log SCH 110722
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1	0	Amplified Amplitude (mV)	30	200	Variable Density	1200
30	Gamma Ray (GAPI)	130	0	Amplitude (mV)	100			
300	TT3FT (usec)	200						



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CBL Main Lower Section

Database File: bonanza_antelope_33-17.db
Dataset Pathname: 240ct11/well/cbl/pass3
Presentation Format: scbl_dr
Dataset Creation: Mon Oct 24 10:04:27 2011 by Log SCH 110722
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: bonanza_antelope_33-17.db
Dataset Pathname: 240ct11/well/cbl/pass4
Dataset Creation: Mon Oct 24 10:35:23 2011 by Log SCH 110722

Gamma Ray Calibration Report

Serial Number:	101SGR	
Tool Model:	TEKCO	
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

Segmented Cement Bond Log Calibration Report

Serial Number:	1234	
Tool Model:	275RIB	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	843.733	ft

Master Calibration, performed Mon Oct 24 09:51:10 2011:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	2.488	3.000	81.196	31.431	3.000
CAL	0.000	1.213				
5'	0.000	2.500	3.000	81.196	31.278	3.000
SUM						
S1	0.000	1.255	0.000	100.000	79.679	0.000
S2	0.000	1.318	0.000	100.000	75.878	0.000
S3	0.000	1.162	0.000	100.000	86.073	0.000
S4	0.000	1.031	0.000	100.000	97.012	0.000
S5	0.000	1.071	0.000	100.000	93.387	0.000
S6	0.000	0.977	0.000	100.000	102.363	0.000
S7	0.000	0.948	0.000	100.000	105.431	0.000
S8	0.000	1.008	0.000	100.000	99.186	0.000

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.000	1.213	1.000	0.000

Air Zero Calibration, performed Mon Sep 11 12:40:00 2006:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000

Temperature Calibration Report

Serial Number:	1234	
Tool Model:	275RIB	
Performed:	Tue Aug 17 13:43:14 2010	
	Reference	Reading
Low Reference:	75.00 degF	300.00 usec
High Reference:	400.00 degF	1282.00usec
Gain:	0.33	
Offset:	10.00	
Delta Spacing	1	

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