J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	BONANZA CREEK OPERATING LLC
Well	ANTELOPE 24-19
Field	WATTENBERG
County	WELD
State	COLORADO

Company BONANZA CREEK OPERATING LLC
Well ANTELOPE 24-19
Field WATTENBERG
County WELD State COLORADO

Location: API # : 05-123- 32352-00
662' FSL& 1920' FWL
SE SW
SEC. 19 TWP. 5N RGE. 62W
SEC TWP RGE

Other Services
PERF

Permanent Datum GROUND LEVEL Elevation 4621
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4636
D.F. 4635
G.L. 4621

Date	08-DECEMBER-2010
Run Number	ONE
Depth Driller	6730
Depth Logger	6641
Bottom Logged Interval	6634
Top Log Interval	2800
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	NOT RECORDED
Estimated Cement Top	2932
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/YELLOW
Location	BRIGHTON
Recorded By	HAYES
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	24 #	SURFACE	434
Prot. String				
Production String	4.5	11.6 #	SURFACE	TOTAL DEPTH
Liner				

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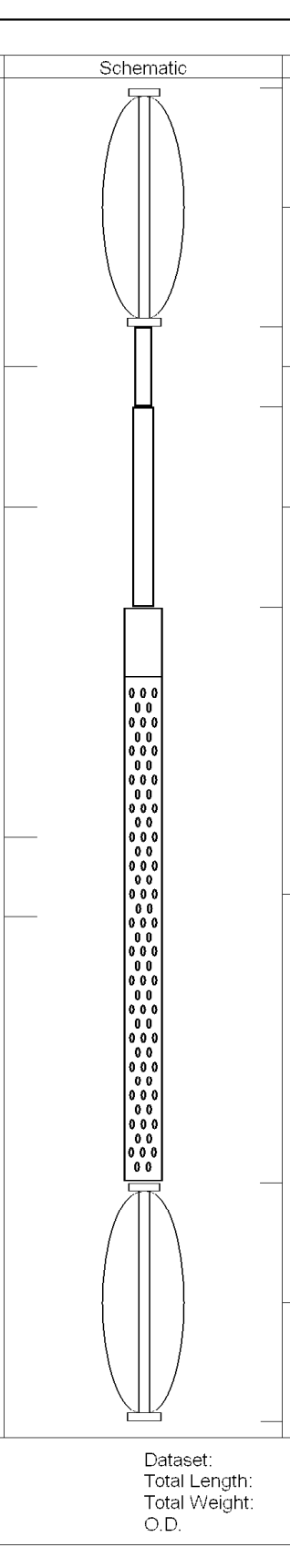
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 TOCD, CN, ML LOG
DATED 02-DECEMBER-2010

LOG SPLIT FOR CORRELATION PURPOSES

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT-A (1)	3.00	1.69	10.00
CCL	13.25		CCL-GR_1_3/8 (001) 1 3/8 titan ccl	1.00	1.38	11.00
GR	11.49		GR-s_t001 (t001)	2.52	1.69	30.00
WVF5 WVF3	7.34 6.34		CBL-3_5 (001)	7.23	2.44	127.00
			CENT-B (2)	3.00	1.69	10.00

Dataset: antelope.db: field/well/run1/pass2
Total Length: 16.75 ft
Total Weight: 188.00 lb
O.D. 2.44 in

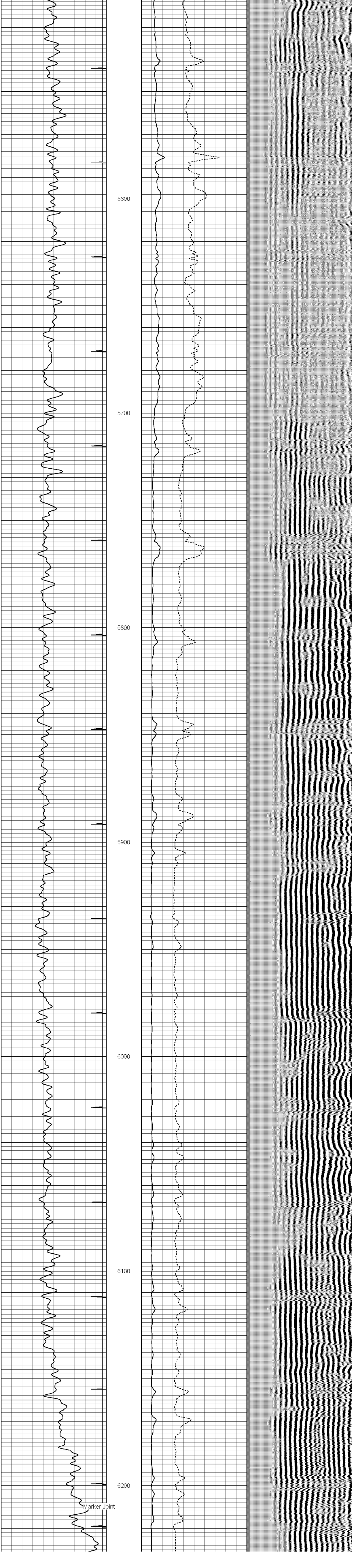
Database File: antelope.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Wed Dec 08 13:43:44 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

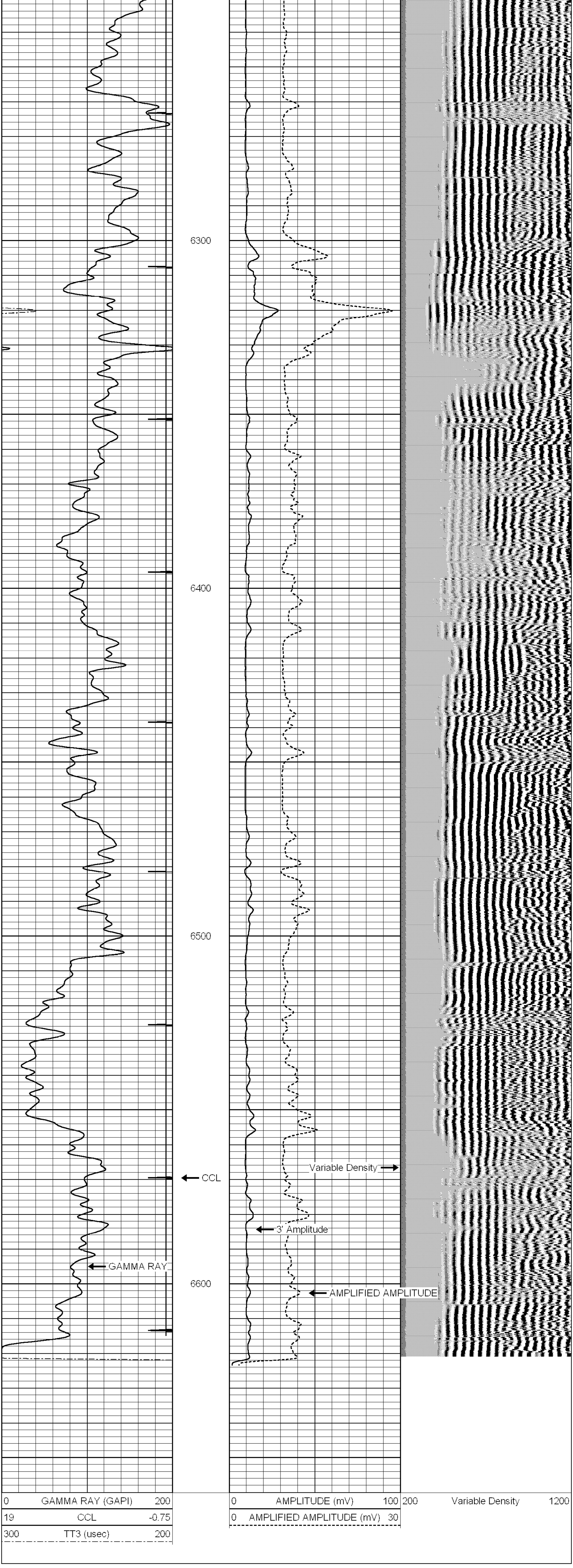
30	GAMMA RAY (GAPI)	130	0	AMPLITUDE (mV)	100
19	CCL	-0.75	0	AMPLIFIED AMPLITUDE (mV)	30
300	TT3 (usec)	200	200	Variable Density	1200

30	GAMMA RAY (GAPI)	130	0	AMPLITUDE (mV)	100
19	CCL	-0.75	0	AMPLIFIED AMPLITUDE (mV)	30
300	TT3 (usec)	200	200	Variable Density	1200

Database File: antelope.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Wed Dec 08 13:27:56 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	200	0	AMPLITUDE (mV)	100
19	CCL	-0.75	0	AMPLIFIED AMPLITUDE (mV)	30
300	TT3 (usec)	200	200	Variable Density	1200





Calibration Report

Database File: antelope.db
Dataset Pathname: pass2
Dataset Creation: Wed Dec 08 13:43:44 2010 by Log Std Casedhole 08121

Cement Bond Log Calibration Report

Serial Number: 001
Tool Model: 3_5
Performed: Wed Dec 08 13:18:02 2010

Depth: 2491.61 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	3	3	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.04	0	V
Reading in Free Pipe:	2.5	2.06963	V
Gain:	31.787	37.7827	
Offset:	1.72852	3	

Gamma Ray Calibration Report

Serial Number: t001
Tool Model: s_t001
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