CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

J-W WIRELINE COMPANY

Company	SUNDANCE ENERGY INC.
Well	MLD 11-22
Field	WATTENBERG
County	WELD
State	COLORADO

Company SUNDANCE ENERGY INC.
Well MLD 11-22
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-36099-00
SHL: 854' FNL & 1290' FWL NW NW
BHL: 663' FNL & 655' FWL NW NW
SEC. 22 TWP. 4N RGE. 68W
SEC TWP RGE

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4877
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4893
D.F. 4892
G.L. 4877

Date	05-DECEMBER-2012
Run Number	ONE
Depth Driller	6892
Depth Logger	6806
Bottom Logged Interval	6799
Top Log Interval	2280
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	NOT RECORDED
Estimated Cement Top	2392
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/WHITE
Location	BRIGHTON
Recorded By	HAYES
Witnessed By	MR. DEAN ROGERS

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	--	SURFACE	581
Prot. String				
Production String	4.5	11.6#	SURFACE	TOTAL DEPTH
Liner				

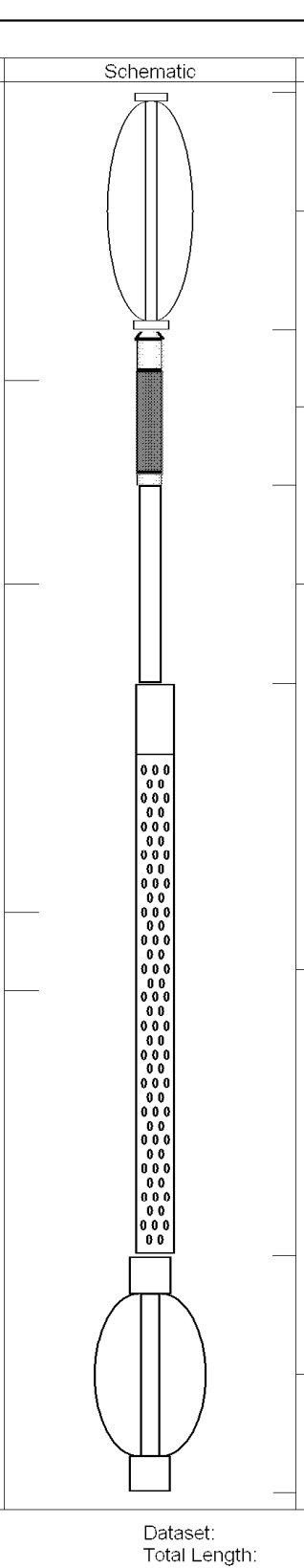
<<< Fold Here >>>

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 HRI CD CN LOG
DATED 30-NOVEMBER-2012

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	14.06		CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.96	2.75	20.00
GR	11.49		GR-s_t001 (t001)	2.52	1.69	30.00
WVF5	7.34					
WVF3	6.34		CBL-3_5 (001)	7.23	2.44	127.00
			CENT-B (2)	3.00	1.69	10.00

Dataset: mld 11-22.db: field/well/run1/pass2
Total Length: 17.71 ft
Total Weight: 197.00 lb
O.D. 2.75 in

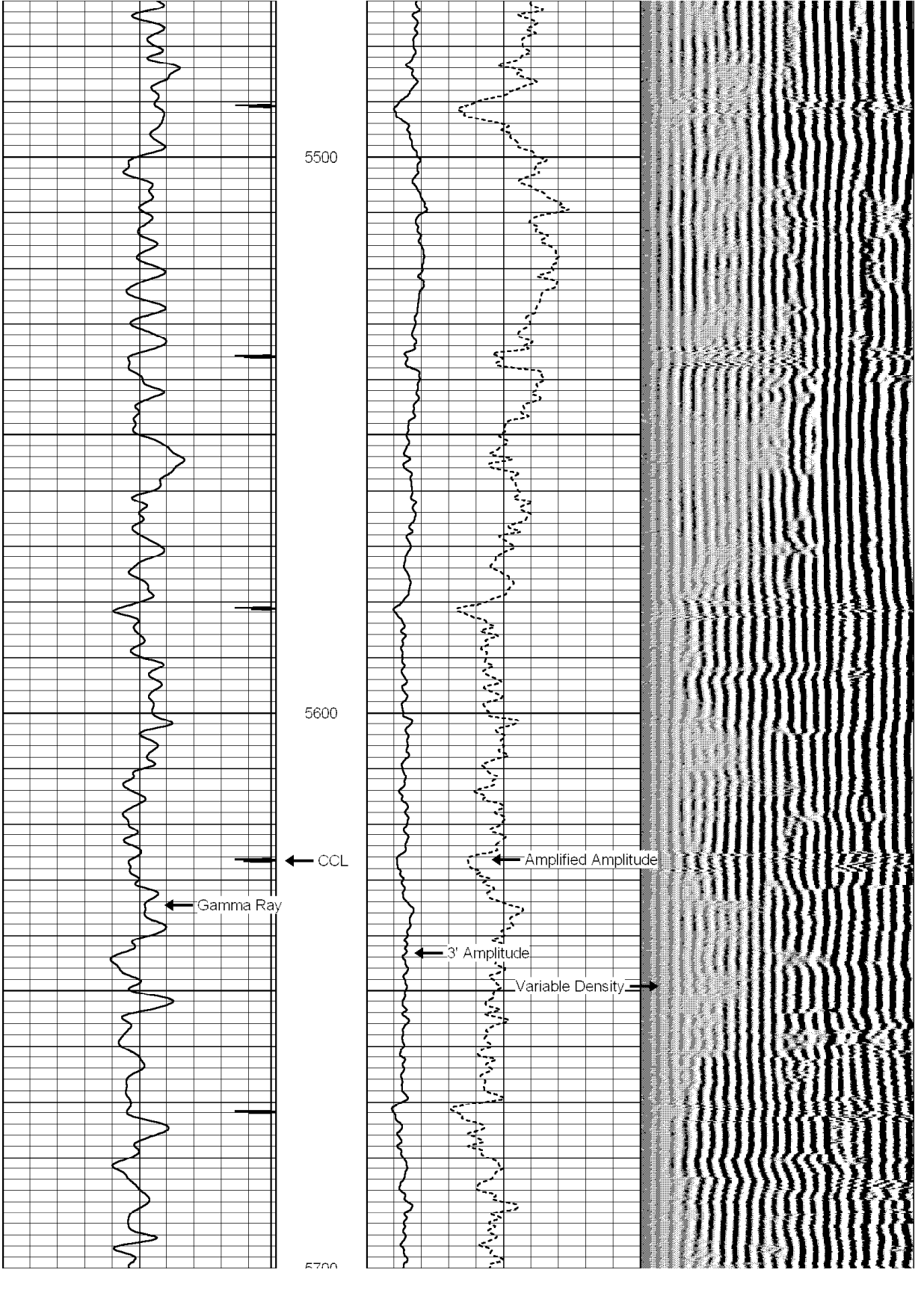
Database File: mld 11-22.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Wed Dec 05 22:00:08 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

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

Database File: mld 11-22.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Wed Dec 05 21:37:56 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

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



Calibration Report

Database File:	mld 11-22.db
Dataset Pathname:	pass2
Dataset Creation:	Wed Dec 05 22:00:08 2012 by Log SCH 111116

Cement Bond Log Calibration Report

Serial Number:	001		
Tool Model:	3_5		
Performed:	Wed Dec 05 19:47:42 2012		
Depth:	2215.08	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	0	V
Reading in Free Pipe:	2.5	2.5	V
Gain:	31.2784	31.2784	
Offset:	3	3	

Gamma Ray Calibration Report

Serial Number:	t001	
Tool Model:	s_t001	
Performed:	Sun Jun 13 14:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps