J-W WIRELINE COMPANY

CEMENT BOND GAMMA RAY COLLAR CORRELATION LOG

Company	NOBLE ENERGY INC.
Well	DECHANT USX X29-06
Field	WATTENBERG
County	WELD
State	COLORADO

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Location: API #: 05-123-32928-00
SURFACE: 2055' FNL & 2059' FWL
SEC 29 TWP 2N RGE 65W

Other Services
NONE

Permanent Datum	GROUND LEVEL	Elevation	4925	Elevation
Log Measured From	KELLY BUSHING			K.B. 4938
Drilling Measured From	KELLY BUSHING			D.F. 4938 G.L. 4925

Date	18-NOV-2011
Run Number	ONE
Depth Driller	7914
Depth Logger	7829
Bottom Logged Interval	7822
Top Log Interval	1900
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	250
Estimated Cement Top	2060
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/RED
Location	BRIGHTON
Recorded By	HAYES/KRAL
Witnessed By	MITCH TRIMBLE

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	900
Prot. String				
Production String	4.5	11.6#	SURFACE	7904
Liner				

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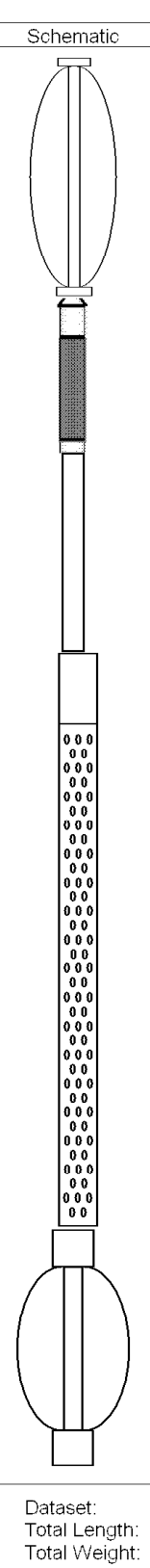
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 DN, SD, AC, TR LOG
DATED 06-NOV-2011

LOG SPLIT FOR CORRELATION PURPOSES

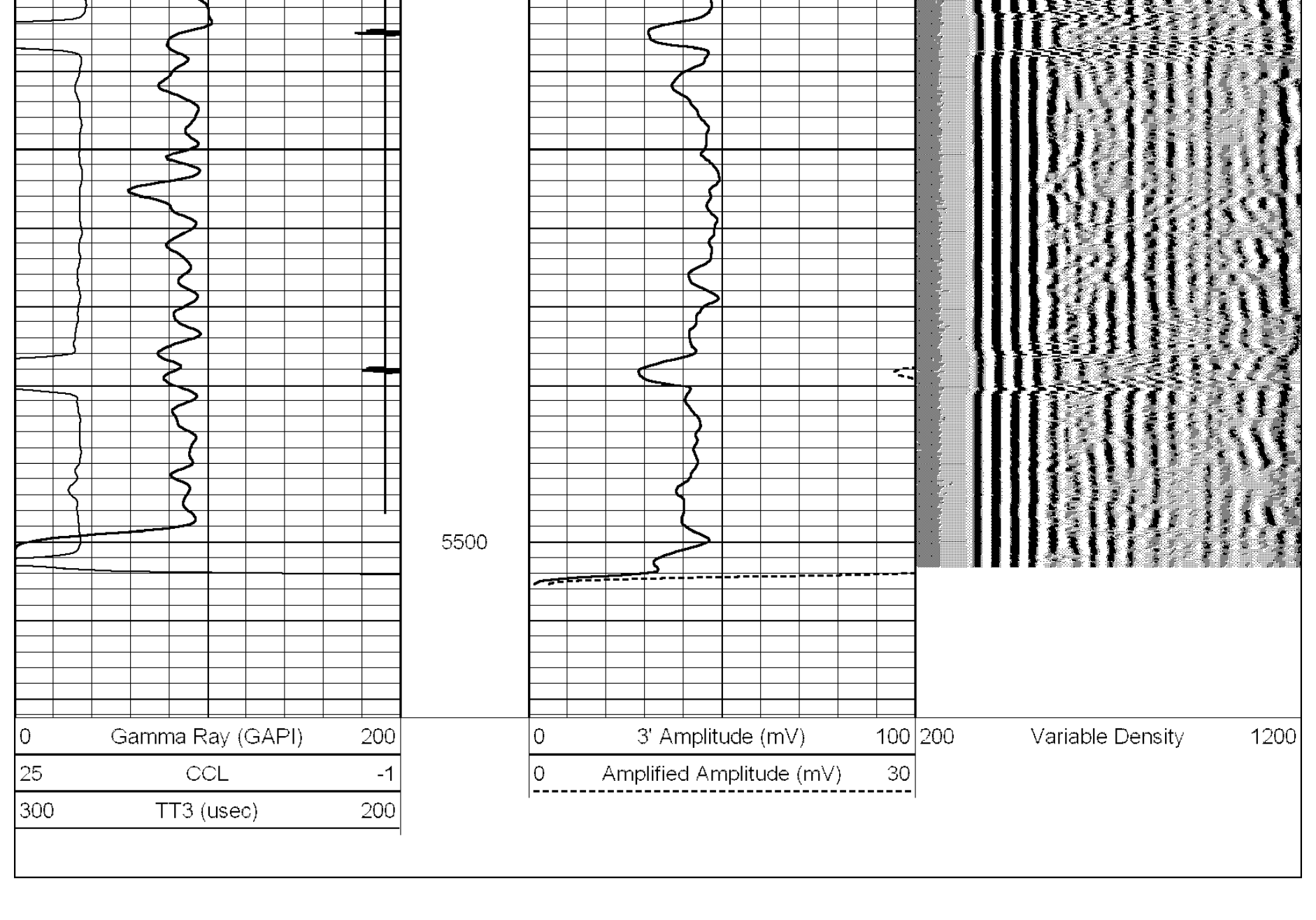


Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT-A (1)	3.00	1.69	10.00
CCL	14.06	CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.96	2.75	20.00
GR	11.49	GR-s_t001 (t001)	2.52	1.69	30.00
WVF5 WVF3	7.34 6.34	CBL-3_5 (001)	7.23	2.44	127.00
		CENT-B (2)	3.00	1.69	10.00

Dataset: dechant usx x29-06.db: field/well/run1/pass2
Total Length: 17.71 ft
Total Weight: 197.00 lb
O.D. 2.75 in

Database File: dechant usx x29-06.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Fri Nov 18 11:56:07 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200	0	3' Amplitude (mV)	100	200	Variable Density	1200
25	CCL	-1	0	Amplified Amplitude (mV)	30			
300	TT3 (usec)	200						



0	Gamma Ray (GAPI)	200	0	3' Amplitude (mV)	100
25	CCL	-1	0	Amplified Amplitude (mV)	30
300	TT3 (usec)	200	200	Variable Density	1200

Database File: dechant usx x29-06.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Fri Nov 18 11:19:26 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	200	0	3' Amplitude (mV)	100
25	CCL	-1	0	Amplified Amplitude (mV)	30
300	TT3 (usec)	200	200	Variable Density	1200

0	Gamma Ray (GAPI)	200	0	3' Amplitude (mV)	100
25	CCL	-1	0	Amplified Amplitude (mV)	30
300	TT3 (usec)	200	200	Variable Density	1200

Calibration Report

Database File: dechant usx x29-06.db
Dataset Pathname: pass2
Dataset Creation: Fri Nov 18 11:56:07 2011 by Log Std Casedhole 10121

Cement Bond Log Calibration Report

Serial Number:	001		
Tool Model:	3_5		
Performed:	Fri Nov 18 10:59:48 2011		
Depth:	1598.93	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:	0.05	0	V
Reading in Free Pipe:	2.42542	2.5	V
Gain:	32.9189	31.2784	
Offset:	1.35406	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