Company NOBLE ENERGY INC.
Well ALOYSIUS C 34-27 D
Field WATTENBERG
County WELD
State COLORADO

J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	NOBLE ENERGY INC.		
Well	ALOYSIUS C 34-27 D		
Field	WATTENBERG		
County	WELD	State	COLORADO
Location:	API #: 05-123-31190-00 SHL: 595' FNL & 654' FEL NE/NE BHL: 121' FNL & 1315' FWL NW/NE SEC. 34 TWP. 4N RGE. 64W	Other Services	NONE
	SEC TWP RGE		
Permanent Datum	GROUND LEVEL	Elevation	4688
Log Measured From	KELLY BUSHING	Elevation	K.B. 4701 D.F. 4701 G.L. 4688
Drilling Measured From	KELLY BUSHING		

Date	11-FEBUARY-2011
Run Number	ONE
Depth Driller	7163
Depth Logger	7091
Bottom Logged Interval	7084
Top Log Interval	1400
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	245
Estimated Cement Top	1570
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/YELLOW
Location	BRIGHTON
Recorded By	HAYES
Witnessed By	MR.CASEY RUPPEL

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	649
Prot. String				
Production String	4.5	11.6#	SURFACE	7148
Liner				

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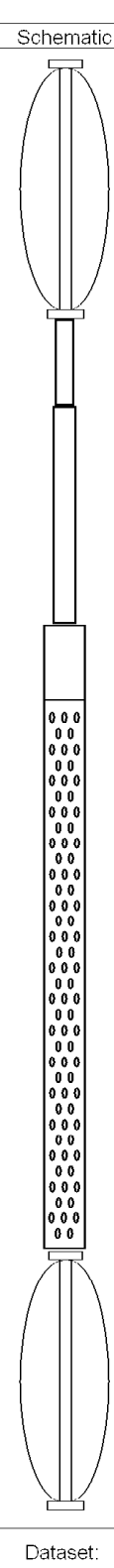
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

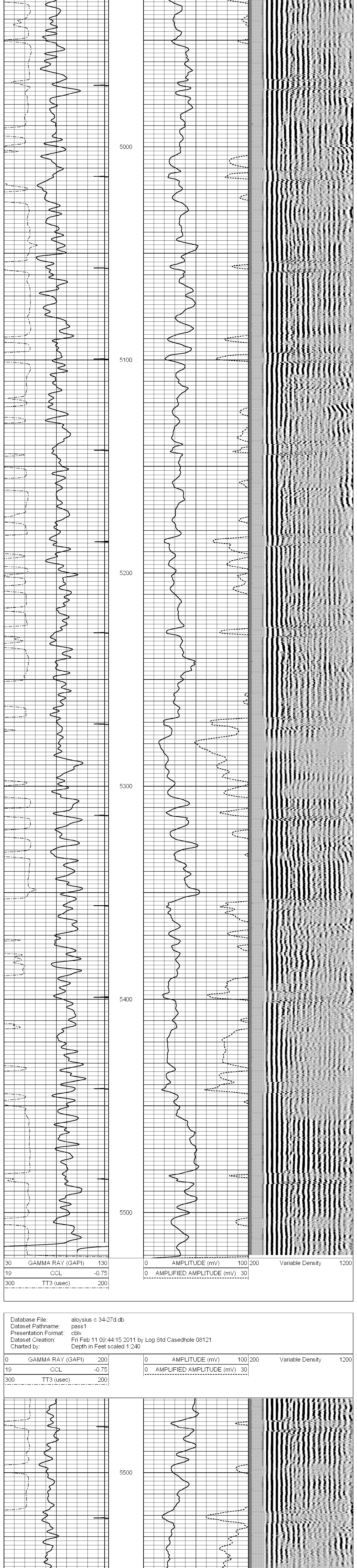
LOG CORRELATED TO CD, CN, ML LOG
DATED 31-JANUARY-2011

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: aloysius c 34-27d.db: field/well/run1/pass2
Total Length: 16.75 ft
Total Weight: 188.00 lb
O.D. 2.44 in

Database File: aloysius c 34-27d.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Fri Feb 11 10:09:48 2011 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240



Database File: aloysius c 34-27d.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Fri Feb 11 09:44:15 2011 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: aloysius c 34-27d.db
Dataset Pathname: pass2
Dataset Creation: Fri Feb 11 10:09:48 2011 by Log Std Casedhole 08121

Cement Bond Log Calibration Report

Serial Number:	001		
Tool Model:	3_5		
Performed:	Fri Feb 11 09:29:45 2011		
Depth:	1461.38	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:	2.48008	1.74036	V
Gain:	32.0465	44.9311	
Offset:	1.71814	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