J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company NOBLE ENERGY INC.
Well BOOTH USX EE 25-13D
Field WATTENBERG
County WELD
State COLORADO

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Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-34365-00
SHL: 2384' FNL & 1014' FWL SW/NW
BHL: 726' FSL & 649' FWL SW/SW
SEC. 25 TWP. 7N RGE. 65W
SEC TWP RGE

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4818
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4831
D.F. 4830
G.L. 4818

Date	02-DECEMBER-2011
Run Number	ONE
Depth Driller	7853
Depth Logger	7723
Bottom Logged Interval	7716
Top Log Interval	1200
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	245
Estimated Cement Top	1350
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/RED
Location	BRIGHTON
Recorded By	HAYES
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	743
Prot. String				
Production String	4.5	11.6#	SURFACE	7843
Liner				

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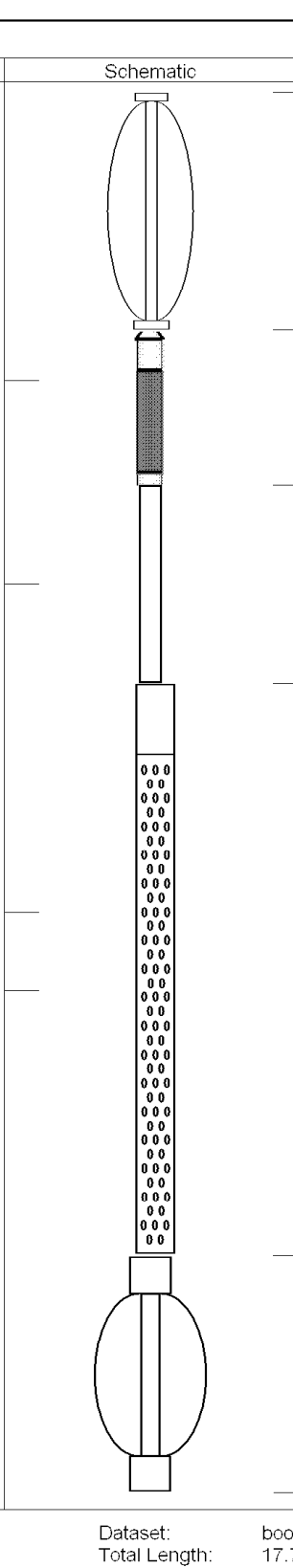
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 OCTOBER-28-2011

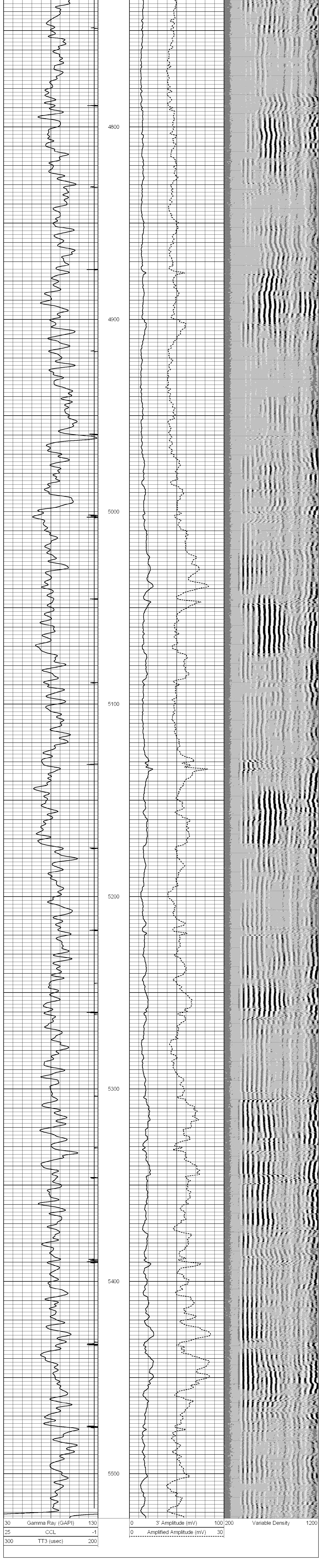
LOG SPLIT FOR CORRELATION PURPOSES



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	7.34	CBL-3_5 (001)	7.23	2.44	127.00
WVF3	6.34				
		CENT-B (2)	3.00	1.69	10.00

Dataset: booth usx ee 25-13d.db: field/well/run1/pass2
Total Length: 17.71 ft
Total Weight: 197.00 lb
O.D. 2.75 in

Database File: booth usx ee 25-13d.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Fri Dec 02 10:39:59 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240



Database File: booth usx ee 25-13d.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Fri Dec 02 10:05:31 2011 by Log Std Casedhole 10121
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: booth usx ee 25-13d.db
Dataset Pathname: pass2
Dataset Creation: Fri Dec 02 10:39:59 2011 by Log Std Casedhole 10121

Cement Bond Log Calibration Report

Serial Number:	001		
Tool Model:	3_5		
Performed:	Fri Dec 02 09:46:30 2011		
Depth:	917.4	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:	2.5	2.5	V
Gain:	31.9168	31.2784	
Offset:	1.40416	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