J-W WIRELINE COMPANY

CEMENT BOND GAMMA RAY COLLAR CORRELATION LOG

Company	NOBLE ENERGY INC.
Well	REHDER X 06-33D
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.
Well REHDER X 06-33D
Field WATTENBERG
County WELD State COLORADO

Location: API #: 05-123-35560-00
SHL: 1075' FSL & 759' FWL SW SW
BHL: 75' FWL 1320' FSL SW SW
SEC. 06 TWP. 2N RGE. 65W
SEC TWP RGE

Other Services
NONE

Permanent Datum	GROUND LEVEL	Elevation	4979
Log Measured From	KELLY BUSHING		
Drilling Measured From	KELLY BUSHING		

Elevation
K.B. 4992
D.F. 4992
G.L. 4979

Date	18-JULY-2012
Run Number	ONE
Depth Driller	8080
Depth Logger	8003
Bottom Logged Interval	7996
Top Log Interval	1750
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	255
Estimated Cement Top	1868
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/GREY
Location	BRIGHTON
Recorded By	HAYES
Witnessed By	MR. TROY SETTLE

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	1030
Prot. String				
Production String	4.5	11.6#	SURFACE	8067
Liner				

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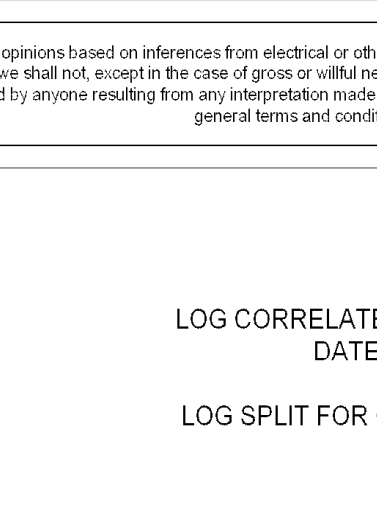
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 SD, DSN, AC, TR LOG
DATED 18-JUNE-2012

LOG SPLIT FOR CORRELATION PURPOSES

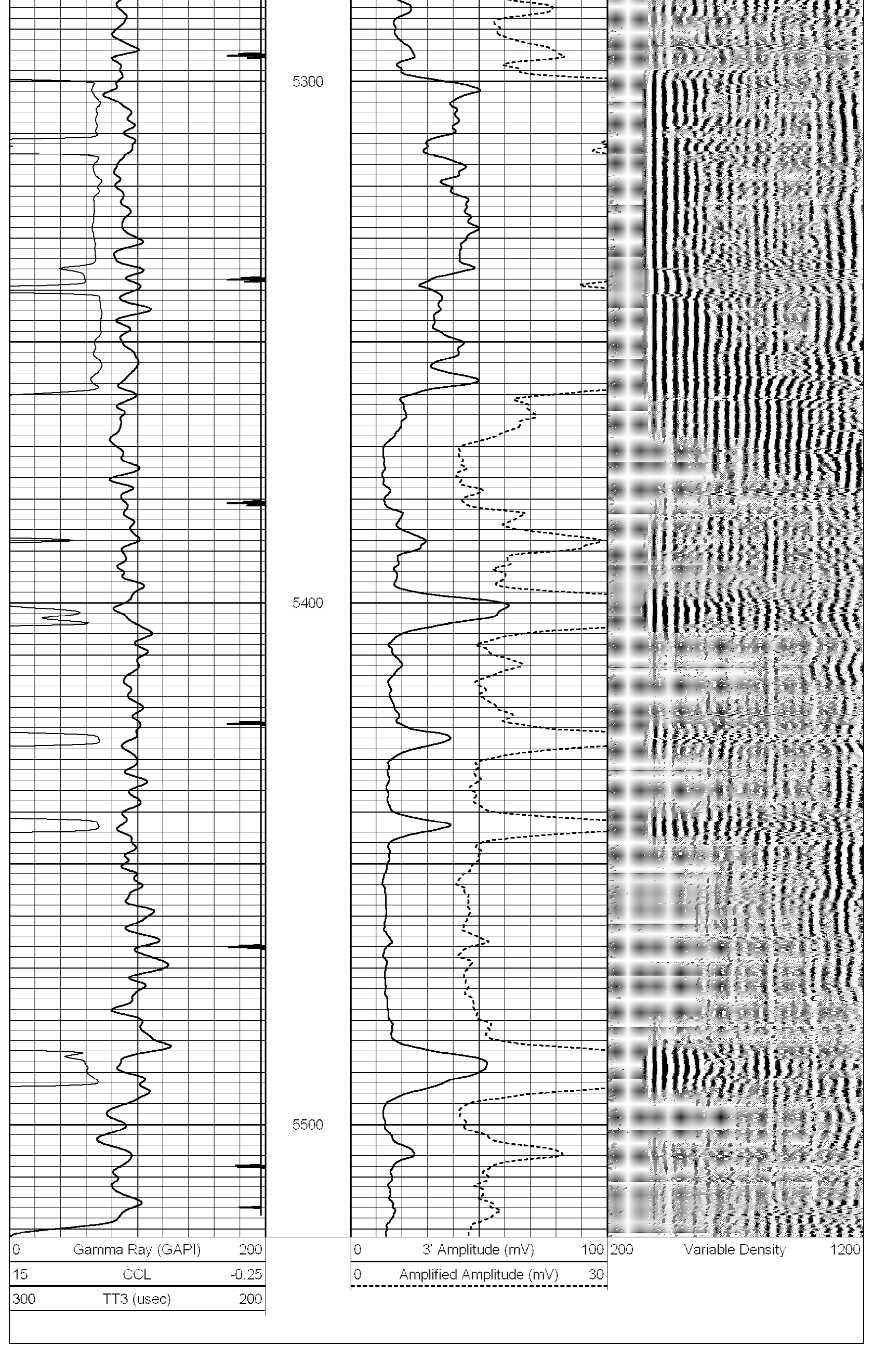


Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		CENT-A (1)	3.00	1.69	10.00
CCL	14.06	CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.96	2.75	20.00
GR	11.49	GR-s_t001 (t001)	2.52	1.69	30.00
WVF5 WVF3	7.34 6.34	CBL-3_5 (001)	7.23	2.44	127.00
		CENT-B (2)	3.00	1.69	10.00

Dataset: rehder x 06-33.db: field/well/run1/pass2
Total Length: 17.71 ft
Total Weight: 197.00 lb
O.D. 2.75 in

Database File: rehder x 06-33.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Thu Jul 19 00:26:08 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

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



Database File: rehder x 06-33.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Wed Jul 18 23:51:25 2012 by Log SCH 111116
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: rehder x 06-33.db
Dataset Pathname: pass2
Dataset Creation: Thu Jul 19 00:26:08 2012 by Log SCH 111116

Cement Bond Log Calibration Report

Serial Number:	001		
Tool Model:	3_5		
Performed:	Wed Jul 18 21:53:44 2012		
Depth:	1335.61	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	0	V
Reading in Free Pipe:	2.5	2.38098	V
Gain:	31.2784	32.842	
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