J-W WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company NOBLE ENERGY INC.
Well GREEN USX EE 13-08
Field WATTENBERG
County WELD
State COLORADO

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Location: API #: 05-123-31164-00
2000' FNL & 824' FEL
SE NE
SEC. 13 TWP. 7N RGE. 65W
SEC TWP RGE

Other Services
PERF

Permanent Datum GROUND LEVEL Elevation 4972
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4985
D.F. 4985
G.L. 4972

Date	18-AUGUST-2010
Run Number	ONE
Depth Driller	7440
Depth Logger	7366
Bottom Logged Interval	7365
Top Log Interval	1700
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	240
Estimated Cement Top	1830
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/TECKO
Location	BRIGHTON
Recorded By	HAYES
Witnessed By	MR. 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	808
Prot. String				
Production String	4.5	11.6 #	SURFACE	TOTAL DEPTH
Liner				

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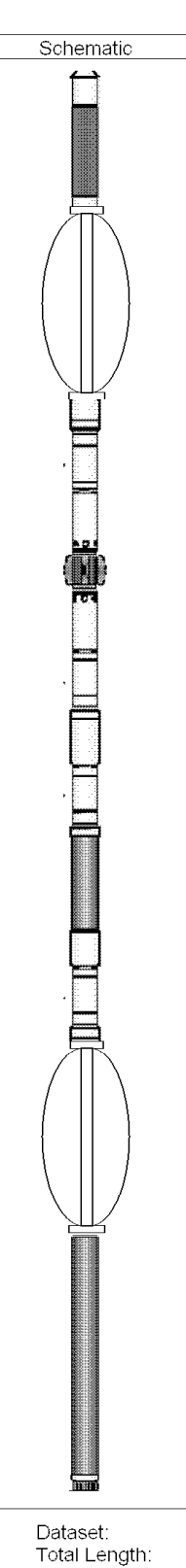
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 01-AUGUST-2010

LOG SPLIT FOR CORRELATION PURPOSES



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
CCL	19.57	CCL-275tekco (2.75TEKCO) 2 3/4 TEK CCL Earth Mag	1.96	2.75	20.00
		CENT-TEKCO (102)	2.73	2.75	10.00
WVF3 WVF5	10.74 9.74	CBL-3_5tekold (3_5tekold001)	9.13	2.75	127.00
		CENT-TEKCO (101)	2.73	2.75	10.00
GR	1.06	GR-TEKCO (101SGR)	3.68	2.75	30.00

Dataset: geeen usx ee 13-08.db: field/well/run1/pass2
Total Length: 20.22 ft
Total Weight: 197.00 lb
O.D. 2.75 in

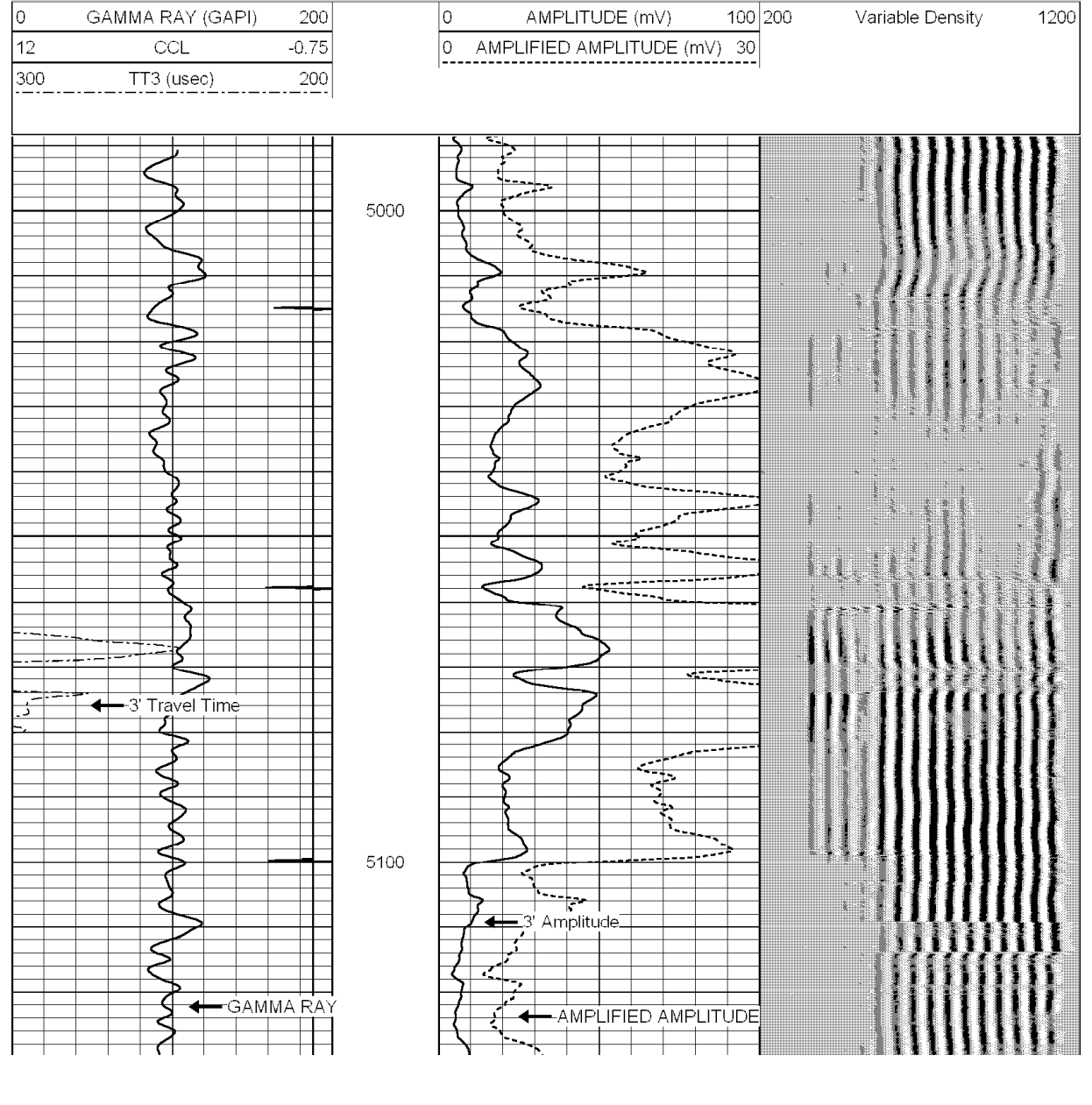
Database File: geeen usx ee 13-08.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Wed Aug 18 13:52:07 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

30	GAMMA RAY (GAPI)	130	0 AMPLITUDE (mV) 100	200 Variable Density 1200
12	CCL	-0.75	0 AMPLIFIED AMPLITUDE (mV) 30	
300	TT3 (usec)	200		

30	GAMMA RAY (GAPI)	130	0 AMPLITUDE (mV) 100	200 Variable Density 1200
12	CCL	-0.75	0 AMPLIFIED AMPLITUDE (mV) 30	
300	TT3 (usec)	200		

Database File: geeen usx ee 13-08.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Wed Aug 18 13:17:23 2010 by Log Std Casedhole 08121
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	200	0 AMPLITUDE (mV) 100	200 Variable Density 1200
12	CCL	-0.75	0 AMPLIFIED AMPLITUDE (mV) 30	
300	TT3 (usec)	200		



Calibration Report

Database File:	geeen usx ee 13-08.db
Dataset Pathname:	pass2
Dataset Creation:	Wed Aug 18 13:52:07 2010 by Log Std Casedhole 08121

Gamma Ray Calibration Report

Serial Number:	101SGR	
Tool Model:	TEKCO	
Performed:	Mon Jun 14 15:52:18 2010	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	3_5tekold001		
Tool Model:	3_5tekold		
Performed:	Wed Aug 18 13:02:04 2010		
Depth:	1422.44	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:	2.33906	2.49878	V
Gain:	34.1608	31.2937	
Offset:	1.29196	3	