JW WIRELINE COMPANY

CEMENT BOND
GAMMA RAY
COLLAR CORRELATION LOG

Company	NOBLE ENERGY INC.
Well	GREEN USX EE 13-05
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.
Well GREEN USX EE 13-05
Field WATTENBERG
County WELD State COLORADO
Location: API # : 05-123-31159-00
1976' FNL & 614' FWL
SW NW
SEC. 13 TWP. 7N RGE. 65W
SEC TWP RGE
Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4963
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Elevation
K.B. 4976
D.F. 4976
G.L. 4963

Date	03-AUGUST-2010
Run Number	ONE
Depth Driller	7460
Depth Logger	7385
Bottom Logged Interval	7378
Top Log Interval	2000
Open Hole Size	7 7/8
Type Fluid	WATER
Density / Viscosity	--
Max. Recorded Temp.	230
Estimated Cement Top	2100
Time Well Ready	--
Time Logger on Bottom	--
Equipment Number	2405/WHITE
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	806
Prot. String				
Production String	4.5	11.6 #	SURFACE	7452
Liner				

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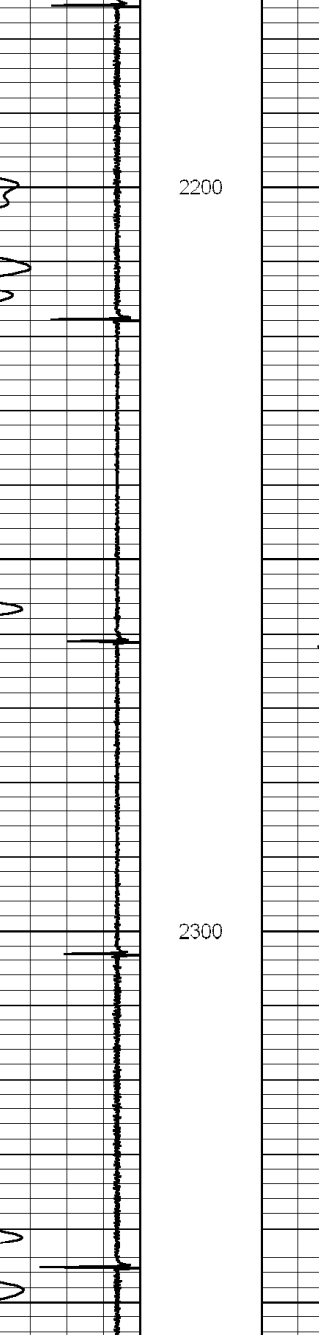
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 25-JULY-2010

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	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: green usx ee 13-05.db: field/well/run1/pass2
Total Length: 16.75 ft
Total Weight: 188.00 lb
O.D. 2.44 in

Database File: green usx ee 13-05.db
Dataset Pathname: pass2
Presentation Format: cblx
Dataset Creation: Tue Aug 03 13:12:05 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: green usx ee 13-05.db
Dataset Pathname: pass1
Presentation Format: cblx
Dataset Creation: Tue Aug 03 12:40:24 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:	green usx ee 13-05.db
Dataset Pathname:	pass2
Dataset Creation:	Tue Aug 03 13:12:05 2010 by Log Std Casedhole 08121

Cement Bond Log Calibration Report

Serial Number:	001		
Tool Model:	3_5		
Performed:	Tue Aug 03 12:21:10 2010		
Depth:	2039.18	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 13:33:21 1993	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps