NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY / CCL
CEMENT BOND / VDL

Company	NOBLE ENERGY, INC
Well	WILLIAMS 34-11E
Field	WATTENBERG
County	WELD
State	COLORADO
Location	API # 05-123-2355
Other Services	
Permanent Datum	GL
Log Measured From	KB 14 Ft. Above Perm. Datum
Drilling Measured From	KB
Elevation	5,110 ft
	5,096 ft
	5,096 ft
Date	02/28/2013
Run Number	ONE
Depth Driller	10152
Depth Logger	10150
Bottom Logged Interval	10150
Top Log Interval	6100
Casing Driller	7in @ 10152
Casing Logger	7in @ 10150
Bit Size	6.125 in
Type Fluid in Hole	WBM
Density / Viscosity	9.6 / 0
PH / Fluid Loss	0 / 0
Source of Sample	FLOWLINE
Rm @ Meas. Temp.	0 @ 0
Rmf @ Meas. Temp.	0 @ 0
Rmc @ Meas. Temp.	0 @ 0
Source of Rmf / Rmc	MEAS / MEAS
Rm @ BHT	0 @ 0
Time Since Circ.	0
Time on Bottom	0
Max Rec. Temp.	0
Equip. Location	0
Recorded By	0
Witnessed By	0

Company: NOBLE ENERGY, INC
Well: WILLIAMS 34-11E
Field: WATTENBERG
County: WELD
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<<< Full Data >>>

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

THANK YOU FOR USING
NABORS COMPLETION AND PRODUCTION SERVICES CO.
NOTE: LOG NOT CORROLATED

Calibration Report

Database File: c:\bv\williams34-14.db
Dataset Pathname: pass2
Dataset Creation: Mon Jan 12 08:31:53 2015 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe2/15dg / 101010

Wed Feb 27 07:52:48 2013

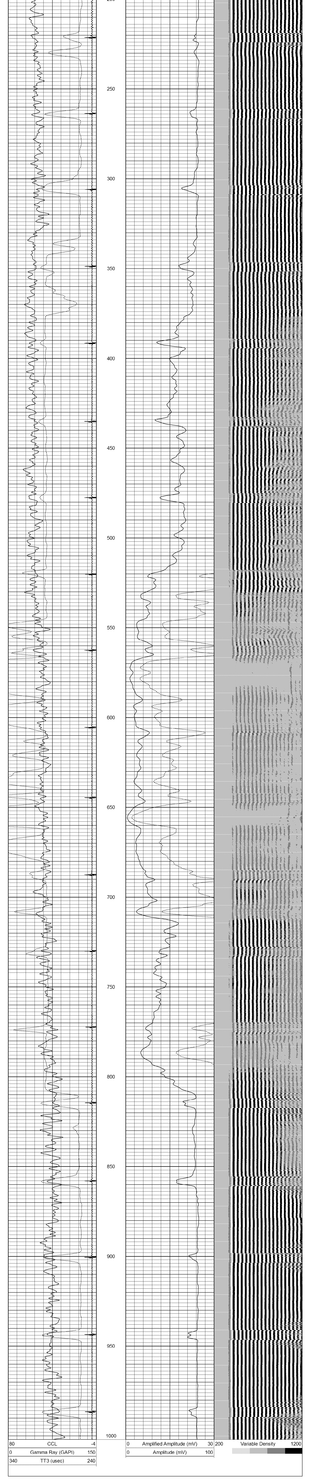
SHOP CALIBRATION	Counts/Sec	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6500			GAPI/cps
PRIMARY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference			0.0		GAPI
BEFORE SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference			0.0		GAPI
AFTER SURVEY VERIFICATION					
Background	0.0				cps
Calibrator	0.0				cps
Difference			0.0		GAPI

Cement Bond Log Calibration Report

Serial Number:	110802		
Tool Model:	Probe2/15Digital		
Performed:	Mon Jan 12 08:31:28 2015		
Depth:	1010.29	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.0142518	0.0142334	V
Reading in Free Pipe:	2.43157	0.932593	V
Gain:	33.2171	86.4143	
Offset:	-0.426396	-1.25844	

Database File: c:\bv\williams34-14.db
Dataset Pathname: pass2
Presentation Format: cbl
Dataset Creation: Mon Jan 12 08:31:53 2015 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

80	CCL	-4	0 Amplified Amplitude (mV) 30	200 Variable Density 1200
0	Gamma Ray (GAPI)	150	0 Amplitude (mV) 100	
340	TT3 (usec)	240		



80	CCL	-4	0 Amplified Amplitude (mV) 30	200 Variable Density 1200
0	Gamma Ray (GAPI)	150	0 Amplitude (mV) 100	
340	TT3 (usec)	240		