NABORS
COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CCL
CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	STATE A36-09
Field	WATTENBERG
County	WELD
State	COLORADO

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Location	API # 05123527
	NENE 36 7N 65W
	1 FSL 1 FEL
Permanent Datum	GL
Log Measured From	KB 16 Ft. Above Permanent Datum
Drilling Measured From	KB
Elevation	GL 4629
	KB 4645
	DF 4644
Date	3 Jul 2014
Run Number	ONE
Depth Driller	7700
Depth Logger	7700
Bottom Logged Interval	7700
Top Logged Interval	6000
Casing Driller	7700 @ 0
Casing Logger	7700 @ 0
Bit Size	6.125
Type Fluid in Hole	WBM
Density / Viscosity	9.6 / 40
PH / Fluid Loss	9.5 / 6.0
Source of Sample	FLOWLINE
Rm @ Meas Temp	0.19 @ 70
Rmf @ Meas Temp	0.15 @ 70
Rmc @ Meas Temp	0.25 @ 70
Source Rmf / Rmc	MEASURED / CALCULATED
Rm @ BHT	0.09 @ 200
Time Since Circulation	24 HOURS
Time on Bottom	3 JUL 2014 18:00
Max Recorded Temp	200
Equipment Number	0324
Location	GREELEY
Recorded By	BRAD
Witnessed By	MR. ROBB

Other Services: CBL

*** Field 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

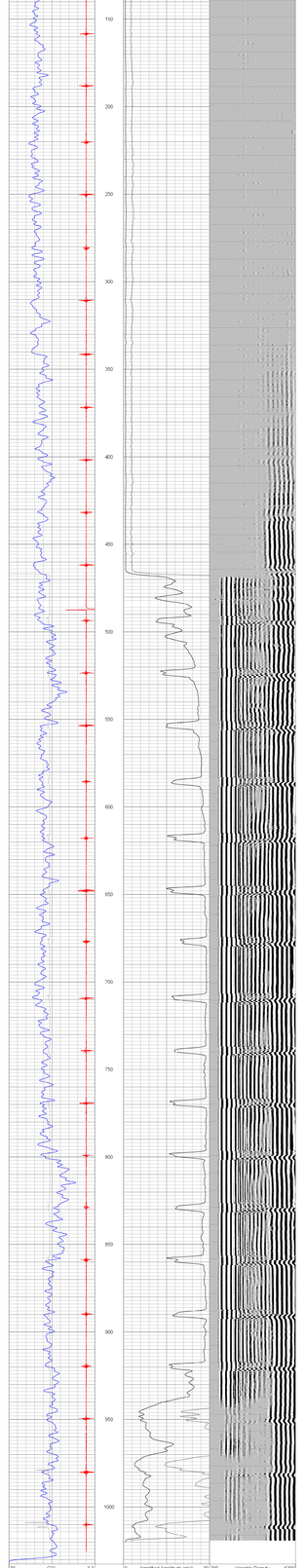
THANK YOU FOR CHOOSING NCPS!!!!
LOG NOT CORRELATED
WCR 61 & WCR 62, N.4, W.2, S INTO

Database File: cbl noble state a36-9.db
Dataset Pathname: pass3
Presentation Format: nvtecbl
Dataset Creation: Fri Mar 20 07:39:39 2015 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240

30	CCL	-3.3
0	Gamma Ray (GAPI)	150
400	TT3 (usec)	0

0	Amplified Amplitude (mV)	50
0	Amplitude (mV)	10

200	Variable Density 1



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Calibration Report

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Dataset Pathname: pass3
Dataset Creation: Fri Mar 20 07:39:39 2015 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	tkfemtp	
Tool Model:	temp/tf	
Performed:	Wed Oct 09 07:50:28 2013	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7000	GAPI/cps

Cement Bond Log Calibration Report

Serial Number:	TEKCO-01	
Tool Model:	TEKCO-1k2	
Performed:	Fri Mar 20 07:37:31 2015	
Depth:	756.408	ft
Casing Diameter:	2.875	in
	3' Spacing	5' Spacing
Signal Zero:	2.5	0 mV
Calibrated Amplitude	106.451	106.451 mV
Reading at Signal Zero:	-0.0057373	-0.00585753 V
Reading in Free Pipe:	7.49478	7.73655 V
Gain:	41.9254	47.4597
Offset:	2.73613	0.282778