NABORS COMPLETION & PRODUCTION SERVICES CO.

Company: Noble Energy
Well: Olson USA 48 X-10
Field: Wattenberg
County: Weld
State: CO
Country: USA

Company: Noble Energy
Field: Wattenberg
Well: Olson USA 48 X-10
Location: API # 05-123-39656
County: USA
State: CO
Other Services: CBL

Gamma Ray, Casing Collar, Variable Density, CCL

Run No. | Date | Depth Driller | Depth Logger | Bottom Logged Interval | Top Log Interval | Casing Driller | Casing Logger | Bit Size | Type Fluid in Hole | Density | Viscosity | pH | Fluid Loss | Source of Sample | Rm @ Meas. Temp | Rmf @ Meas. Temp | Rmc @ Meas. Temp | Source of Rmf and Rmc | Rm @ BHT | Time Since Circulation | Time Logger on Bottom | Max Rec. Temp. Deg. F | Equipment Number | Location | Recorded By | Witnessed By

ONE	12-Dec-13	7,600 FT	7,600 FT	7,600 FT	0 FT	0 FT	7,600 FT	8 3/4 IN	WBM	9.2 LB/G	40 S/QT	9.5	6.4 CC	MUD PIT	0.8 @ 70 DEGF	0.6 @ 70 DEGF	1.1 @ 70 DEGF	MEASURED	0.4 @ 180 DEGF	12 HR	12-Dec-13	180 DEGF	10	GREELEY	M. MCCOY	J. MCCOY

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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

Thank You For Using Nabors!

Calibration Report

Database File: nbldlibrdaxsab016.db
Dataset Pathname: pass3
Dataset Creation: Thu Aug 01 08:45:20 2013 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Serial Number:	Wtemp
Tool Model:	temp56
Performed:	Tue Dec 11 08:08:39 2012
Calibrator Value:	0.8 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	1.0 cps
Sensitivity:	0.8000 GAPI/cps

Cement Bond Log Calibration Report

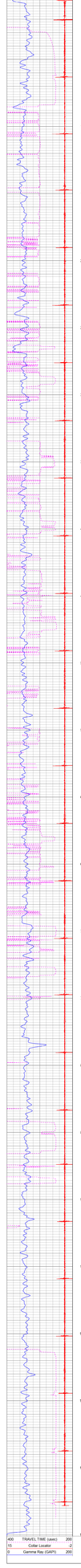
Serial Number:	TEXCO-57
Tool Model:	TEXCO-1x2
Performed:	Thu Aug 01 08:45:17 2013
Depth:	480.583 ft
Casing Diameter:	4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.8	0	mV
Calibrated Amplitude:	61.1561	61.1561	mV
Calibrated Amplitude Zero:	0.39673828	0.30700277	mV
Reading at Free Pipe:	1.21398	0.502394	V
Gain:	65.8097	158.961	
Offset:	1.24378	1.2065	

Database File: nbldlibrdaxsab016.db
Dataset Pathname: pass3
Presentation Format: cbl_vdl
Dataset Creation: Thu Aug 01 08:45:20 2013 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

400	TRAVEL TIME (usec)	200	0	AMP3 (mV)	100 200
15	Collar Locator	-2	0	Amplified Amp 3 (mV)	10
0	Gamma Ray (GAPI)	200			

VDL 1200



400 TRAVEL TIME (usec) 200
15 Collar Locator -2
0 Gamma Ray (GAPI) 200
0 AMP3 (mV) 100 200
0 Amplified Amp 3 (mV) 10
VDL 1200