NABORS COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY CASED HOLE LOG VARIABLE DENSITY CCL

Company	NOBLE ENERGY INC.
Well	SCHMIDT G33-25
Field	WATTENBERG
County	WELD
State	COLORADO

Company	NOBLE ENERGY INC.
Well	SCHMIDT G33-25
Field	WATTENBERG
County	WELD
State	COLORADO

Other Services

CCL
GR
VDL

Permanent Datum: GL
Log Measured From: KB 4627 ft. above Permanent Datum
Drilling Measured From: KB

Elevation: KB 4627, DF 4617, GL 4601

Sec: 33 Twp: 4N Rge: 65W

API #: 05-123-39944

Location: 1313 FNL 1313 FWL

Lease Name: SCHMIDT

Well Number: 2

Run Number: ONE

Date: 27-Mar-14

Type Log: CASED HOLE

Depth Driller: 9033 ft

Depth Logger: 9035 ft

Bottom Logged Interval: 9035 ft

Top Logged Interval: 4000 ft

Casing Driller: 4.5 in @ 9033 ft

Casing Logger: 4.5 in @ 9033 ft

Bit Size: 7.875 in

Type Fluid in Hole: WATER

Density: 8.33 lb/gal

Viscosity: 28 s

PH: 7

Fluid Loss: 0 ml

Source of Sample: FLOWLINE

Rm @ Meas Temp: 0.2 @ 70 °F

Rmf @ Meas Temp: 0.2 @ 70 °F

Rmc @ Meas Temp: 0.2 @ 70 °F

Source of Rmf and Rmc: MEASURED

Rm @ BHT: 0.2 @ 70 °F

Time Circulation Stopped: 03:00

Time Logger on Bottom: 08:00

Maximum Recorded Temperature: 70 °F

Equipment Number: 1313

Location: FORT LUPTON, CO

Recorded By: ROBERT WEAVER

Witnessed By: MARK KRAUSE

*** Field Neu ***

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
LOG ANNULAR FILL 24 HOURS AFTER

Database File: nbkbbchrmdg30-25.db
Dataset Pathname: pass1z
Presentation Format: cased
Dataset Creation: Thu Mar 27 10:46:20 2014 by Calc 7.0 B1
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)	30	200
0	Amplitude (mV)	100	

30	Variable Density	1200

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

0	Amplified Amplitude (mV)	30	200
0	Amplitude (mV)	100	

30	Variable Density	1200

Calibration Report

Database File: nbkbbchrmdtg30-25.db
Dataset Pathname: Rig:NJ
Dataset Creation: Thu Mar 27 10:46:20 2014 by Calc 7.0 B1

Gamma Ray Calibration Report

Serial Number: 9Stemp
Tool Model: temp/gr
Performed: Wed Oct 09 08:50:28 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-51
Tool Model: TEKCO-1x2
Performed: Thu Mar 27 10:06:59 2014

Depth: 9033.68 ft
Casing Diameter: 4.5 in

3' Spacing 5' Spacing

Signal Zero:	1.5	0	mV
Calibrated Amplitude	81.1901	81.1901	mV
Reading at Signal Zero:	-0.0052002	-0.00722461	V
Reading in Free Pipe:	2.5	2.49878	V
Gain:	31.8123	32.4265	
Offset:	1.66543	0.169416	