NABORS COMPLETION & PRODUCTION SERVICES CO.

GAMMA RAY/CCL CEMENT BOND/VDL

Company	NOBLE ENERGY INC.
Well	GERRITY STATE 034-23
Field	WATTENBERG
County	WELD
State	COLORADO

Log Measured From: KB, 15 Ft. Above Permanent Datum
Drilling Measured From: KB

Elevation:	KB: 4834	Permanent Datum:	Ground Level
	DF: 4819	Log Measured From:	KB, 15 Ft. Above Permanent Datum
	GL: 4819	Drilling Measured From:	KB

Logged: 6/26/2014 — Open Hole Size: 8.75 in — Run Number: ONE — Depth Driller: 7100 ft — Depth Logger: 7100 ft — Bottom Logged Interval: 7100 ft — Top Logged Interval: 6900 ft — Casing Driller Size @ Depth: 4.5 in @ 7100 ft — Casing Logger Size @ Depth: 4.5 in @ 7100 ft — Bit Size: 7.875 in — Type Fluid in Hole: WATER — Density: 8.33 lb/gal — Viscosity: 28 s — PH: 7 — Fluid Loss: 0 cc — Source of Sample: FLOWLINE — Rm @ Meas Temp: 0.000 @ 0 °F — Rmf @ Meas Temp: 0.000 @ 0 °F — Rmc @ Meas Temp: 0.000 @ 0 °F — Source of Rmf and Rmc: MEASURED — Rm @ BHT: 0.000 @ 0 °F — Time Since Circulation: 0 hr — Time on Bottom: 0 hr — Max Recorded Temp: 0 °F — Equipment Number: 0 — Location: 0 — Recorded By: 0 — Witnessed By: 0

API Serial No.	05-123-35986	Location	SEC. 34 TWP. 4N RGE. 65W
Latitude:	40.26000	Longitude:	-104.63000
State Plane Coordinate System:	NAD83 COLORADO NORTH ZONE		

Other Services: CBL

*** End Header ***

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 NCPS
LOG NOT CORRELATED

Database File: gerritystatelog30-23.db
Dataset Pathname: pass2
Presentation Format: nabcolor
Dataset Creation: Wed Jun 25 07:24:06 2014 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

30	CCL	-3.5	0	Amplified Amplitude (mV)	30 200
0	Gamma Ray (GAPI)	150	0	Amplitude (mV)	100
400	TT3 (usec)	0			

Variable Density 1200

BAD FLUID

Database File: gerrystatelog36-23.db
Dataset Pathname: pass2
Dataset Creation: Wed Jun 25 07:24:06 2014 by Log 7.0 D1

Calibration Report

Gamma Ray Calibration Report

Serial Number:	WTemp	
Tool Model:	temp36	
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-51		
Tool Model:	TEKCO-1x2		
Performed:	Wed Jun 25 07:22:46 2014		
Depth:	1113.3	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	1.5	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	-0.084802881	-1.065163254	V
Reading in Free Pipe:	2.48669	1.95561	V
Gain:	31.9862	40.9226	
Offset:	1.65618	0.206696	