SUPERIOR WELL SERVICES

Company NOBLE ENERGY INC.
Well RH FARMS II33-25D
Field WATTENBERG
County WELD
State COLORADO

GAMMA RAY CCL CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well RH FARMS II33-25D
Field WATTENBERG
County WELD State COLORADO

Location: API #: 0512334574
SHL: 689' FSL & 678' FWL
BHL: 1320' FSL & 1254' FWL
SWSW
SEC 33 TWP 7N RGE 66W

Other Services

Permanent Datum GL Elevation 4865
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 4879
D.F. 4879
G.L. 4865

Date	JANUARY 9, 2012
Run Number	ONE
Depth Driller	7595
Depth Logger	7512
Bottom Logged Interval	7511
Top Log Interval	1852
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	248 DEG. F
Estimated Cement Top	2142
Time Well Ready	PORTABLE MAST
Time Logger on Bottom	2-3/4 PROBE 110803
Equipment Number	3342
Location	45
Recorded By	GREG NOLAN
Witnessed By	SCOTT ARMSTRONG

Borehole Record				Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	8-5/8	24# J-55	14	1039
Prot. String				
Production String	4-1/2	11.6# M-80	14	7592
Liner				

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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 CHOOSING SUPERIOR WELL SERVICES!!!!
LOG CORRELATED TO HES SPECTRAL DENSITY, DUAL SPACED NEUTRON,
ARRAY COMPENSATED, TRUE RESISTIVITY LOG DATED 29-DEC-11

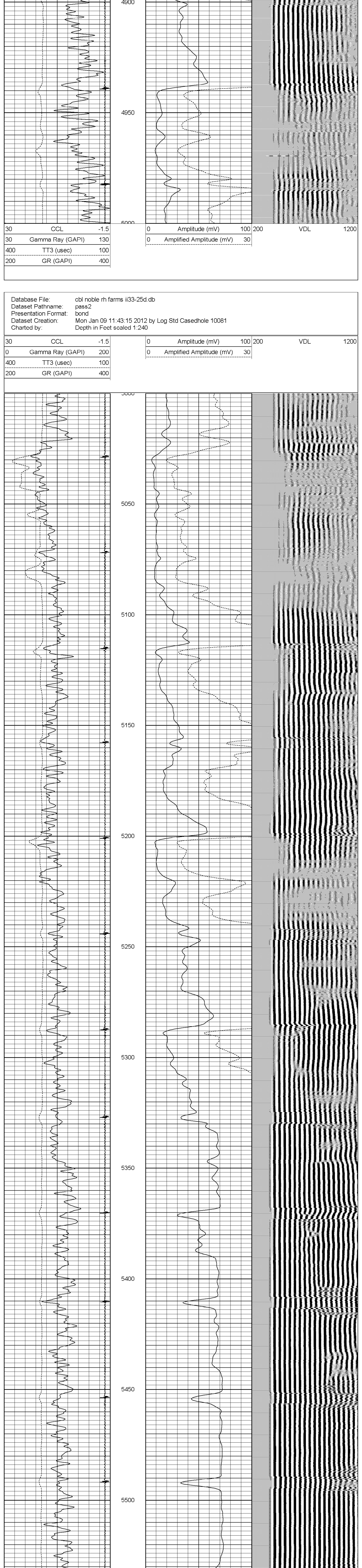
Database File:	cbl noble rh farms ii33-25d.db
Dataset Pathname:	pass3
Presentation Format:	bond
Dataset Creation:	Mon Jan 09 12:06:12 2012 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

30	CCL	-1.5	0	Amplitude (mV)	100	200	VDL	1200
30	Gamma Ray (GAPI)	130	0	Amplified Amplitude (mV)	30			
400	TT3 (usec)	100						
200	GR (GAPI)	400						

30	CCL	-1.5	0	Amplitude (mV)	100	200	VDL	1200
30	Gamma Ray (GAPI)	130	0	Amplified Amplitude (mV)	30			
400	TT3 (usec)	100						
200	GR (GAPI)	400						

Database File:	cbl noble rh farms ii33-25d.db
Dataset Pathname:	pass2
Presentation Format:	bond
Dataset Creation:	Mon Jan 09 11:43:15 2012 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

30	CCL	-1.5	0	Amplitude (mV)	100	200	VDL	1200
0	Gamma Ray (GAPI)	200	0	Amplified Amplitude (mV)	30			
400	TT3 (usec)	100						
200	GR (GAPI)	400						



Calibration Report

Database File: cbl noble rh farms ii33-25d.db
Dataset Pathname: pass2
Dataset Creation: Mon Jan 09 11:43:15 2012 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

SHOP CALIBRATION Sun Jun 13 13:33:21 1993

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.8000			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: Probe275Digital
Performed: Mon Jan 09 11:16:26 2012

Depth: 1067.96 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0.8	0.8	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.00827637	0.00820313	V
Reading in Free Pipe:	2.49592	2.44875	V
Gain:	32.3181	32.9418	
Offset:	0.532523	0.529775	