Company NOBLE ENERGY INC.
Well RH FARMS II33-12D
Field WATTENBERG
County WELD
State COLORADO

GAMMA RAY CCL
CEMENT BOND VDL

Company NOBLE ENERGY INC.
Well RH FARMS II33-12D
Field WATTENBERG
County WELD State COLORADO

Location: API #: 0512334575
SHL: 712' FSL & 678' FWL SWSW
BHL: 1975' FSL & 715' FWL NWSW
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. 4878
G.L. 4865

Date	JANUARY 17, 2012
Run Number	ONE
Depth Driller	7690
Depth Logger	7612
Bottom Logged Interval	7611
Top Log Interval	1890
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	243 DEG. F
Estimated Cement Top	2310
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	1031
Prot. String				
Production String	4-1/2	11.6# M-80	15	7679
Liner				

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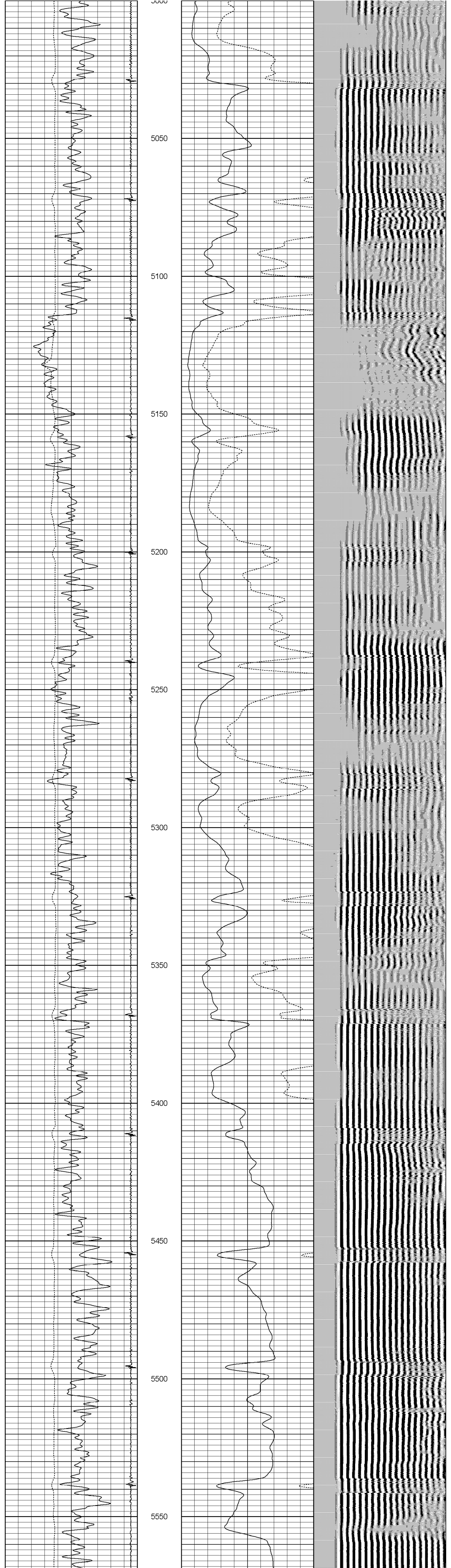
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 ARRAY COMP. TRUE RESISTIVITY,
SPECTRAL DENSITY, DUAL SPACED NEUTRON LOG DATED 03-JAN-12
NORTH WELL OF A 5 WELL PAD

Database File: cbl noble rh farms ii33-12d.db
Dataset Pathname: pass2
Presentation Format: bond
Dataset Creation: Tue Jan 17 11:07:13 2012 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240

Database File: cbl noble rh farms ii33-12d.db
Dataset Pathname: pass1
Presentation Format: bond
Dataset Creation: Tue Jan 17 10:44:29 2012 by Log Std Casedhole 10081
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: cbl noble rh farms ii33-12d.db
Dataset Pathname: pass1
Dataset Creation: Tue Jan 17 10:44:29 2012 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110785

SHOP CALIBRATION Wed Sep 14 09:54:45 2011

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.9200			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: 110803
Tool Model: Probe275Digital
Performed: Tue Jan 17 10:04:29 2012

Depth:	1048.93	ft	
Casing Diameter:	4.5	in	
	3' Spacing	5' Spacing	
Signal Zero:	0.8	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	0.00932617	0.00939941	V
Reading in Free Pipe:	2.49014	2.43425	V
Gain:	32.4072	33.485	
Offset:	0.497765	-0.314739	