SUPERIOR WELL SERVICES

GAMMA RAY CCL CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	RH FARMS II33-11D
Field	WATTENBERG
County	WELD
State	COLORADO

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Field WATTENBERG
County WELD State COLORADO

Location: API # : 0512334614
SHL: 667' FSL & 678' FWL SWSW
BHL: 1997' FSL & 2038' FWL NESW
SEC 33 TWP 7N RGE 66W

Other Services

Permanent Datum	GL	Elevation 4865	Elevation K.B. 4879 D.F. 4879 G.L. 4865
Log Measured From	KB		
Drilling Measured From	KB		

Date	JANUARY 9, 2012
Run Number	ONE
Depth Driller	7848
Depth Logger	7784
Bottom Logged Interval	7783
Top Log Interval	1700
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	243 DEG. F
Estimated Cement Top	2160
Time Well Ready	PORTABLE MAST
Time Logger on Bottom	2-3/4 PROBE 110802
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	986
Prot. String				
Production String	4-1/2	11.6# M-80	14	7837
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 PSI COMP. DENSITY/NEUTRON MICROLOG DATED DECEMBER 25, 2011
WCR 74 & WCR 29, E.2, N.2 INTO
THIRD WELL FROM THE NORTH OF A 5 WELL PAD

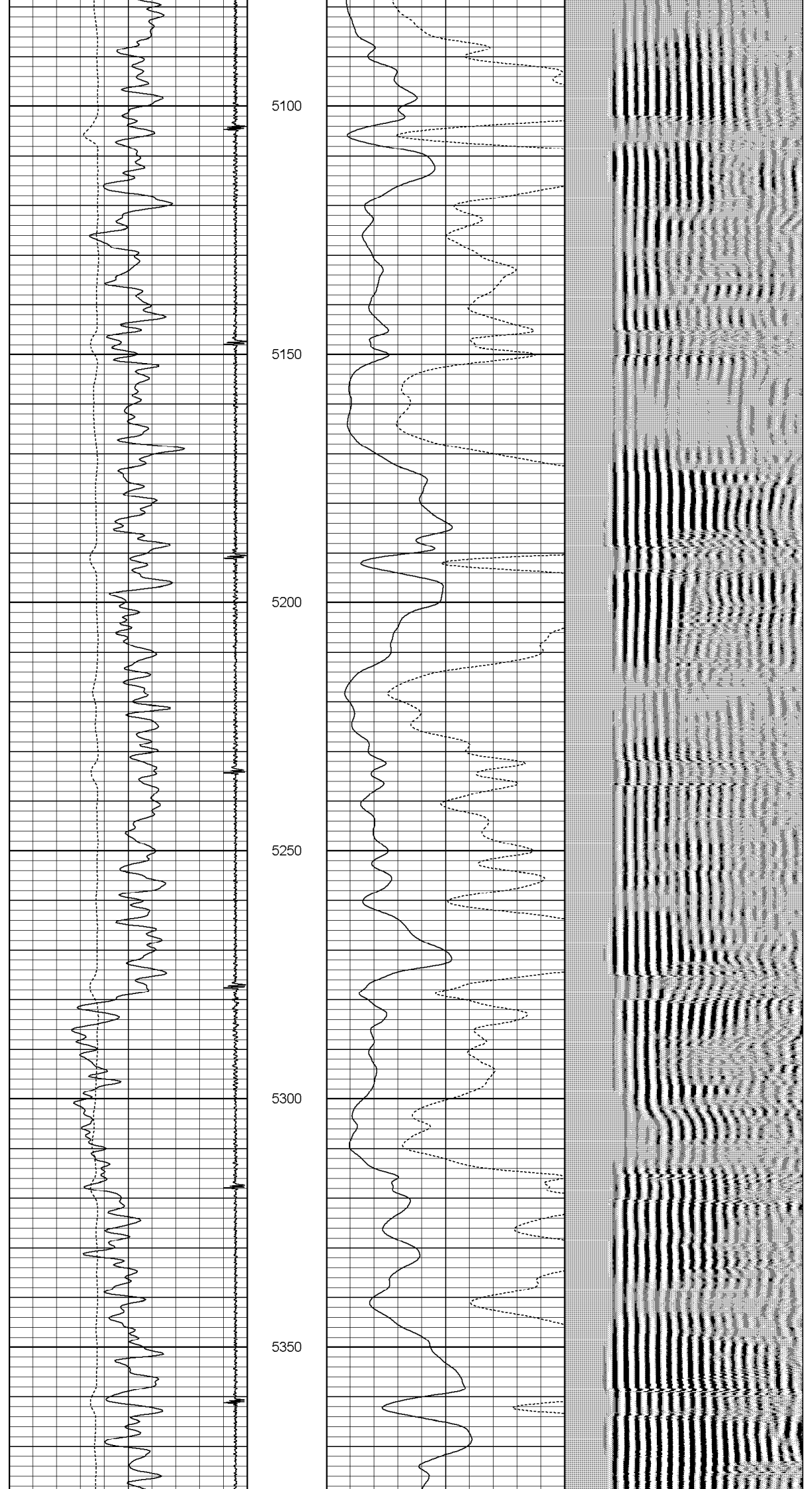
Database File:	cbl noble rh farms ii33-11d.db
Dataset Pathname:	pass2
Presentation Format:	bond
Dataset Creation:	Mon Jan 09 13:32:07 2012 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

30	CCL	-1.5	0	Amplitude (mV)	100	200	VDL	1200
0	Gamma Ray (GAPI)	150	0	Amplified Amplitude (mV)	30			
400	TT3 (usec)	100						
200	GR (GAPI)	400						

30	CCL	-1.5	0	Amplitude (mV)	100	200	VDL	1200
0	Gamma Ray (GAPI)	150	0	Amplified Amplitude (mV)	30			
400	TT3 (usec)	100						
200	GR (GAPI)	400						

Database File:	cbl noble rh farms ii33-11d.db
Dataset Pathname:	pass1
Presentation Format:	bond
Dataset Creation:	Mon Jan 09 13:08:11 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 ii33-11d.db
Dataset Pathname: pass1
Dataset Creation: Mon Jan 09 13:08:11 2012 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 101010

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Sun Jun 13 13:33:21 1993				
Background	0.0				cps
Calibrator	1.0				cps
		0.8500			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 12:50:56 2012

Depth: 1070.87 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:	0.00842285	0.00844727	V
Reading in Free Pipe:	2.49771	2.44304	V
Gain:	32.2969	33.0224	
Offset:	0.527968	0.521051	