SUPERIOR WELL SERVICES

GAMMA RAY CCL
CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	GUTTERSEN D11-29D
Field	WATTENBERG
County	WELD
State	COLORADO

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Well GUTTERSEN D11-29D
Field WATTENBERG
County WELD State COLORADO

Location: API # : 0512335039
SHL: 1634' FSL & 1369' FWL NE/SW
BHL: 74' FSL & 1334' FWL SE/SW
SEC 2 TWP 3N RGE 64W

Other Services

Permanent Datum	GL	Elevation	4700	Elevation	K.B. 4714 D.F. 4714 G.L. 4700
Log Measured From	KB				
Drilling Measured From	KB				

Date	JUNE 14, 2012
Run Number	ONE
Depth Driller	7282
Depth Logger	7188
Bottom Logged Interval	7187
Top Log Interval	1633
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	238 DEG. F
Estimated Cement Top	1965
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	TROY SETTLE

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	786
Prot. String				
Production String	4-1/2	11.6# M-80	14	7261
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 MAY 31, 2012
WCR 40 & WCR 57, S1.5, SE.3, S INTO
CENTER WELL OF A 3 WELL PAD

Database File:	cbl noble guttersen d11-29d.db
Dataset Pathname:	pass2
Presentation Format:	bond
Dataset Creation:	Thu Jun 14 09:18:10 2012 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

30 CCL -1.5
30 Gamma Ray (GAPI) 130
400 TT3 (usec) 100
200 GR (GAPI) 400

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

200 VDL 1200

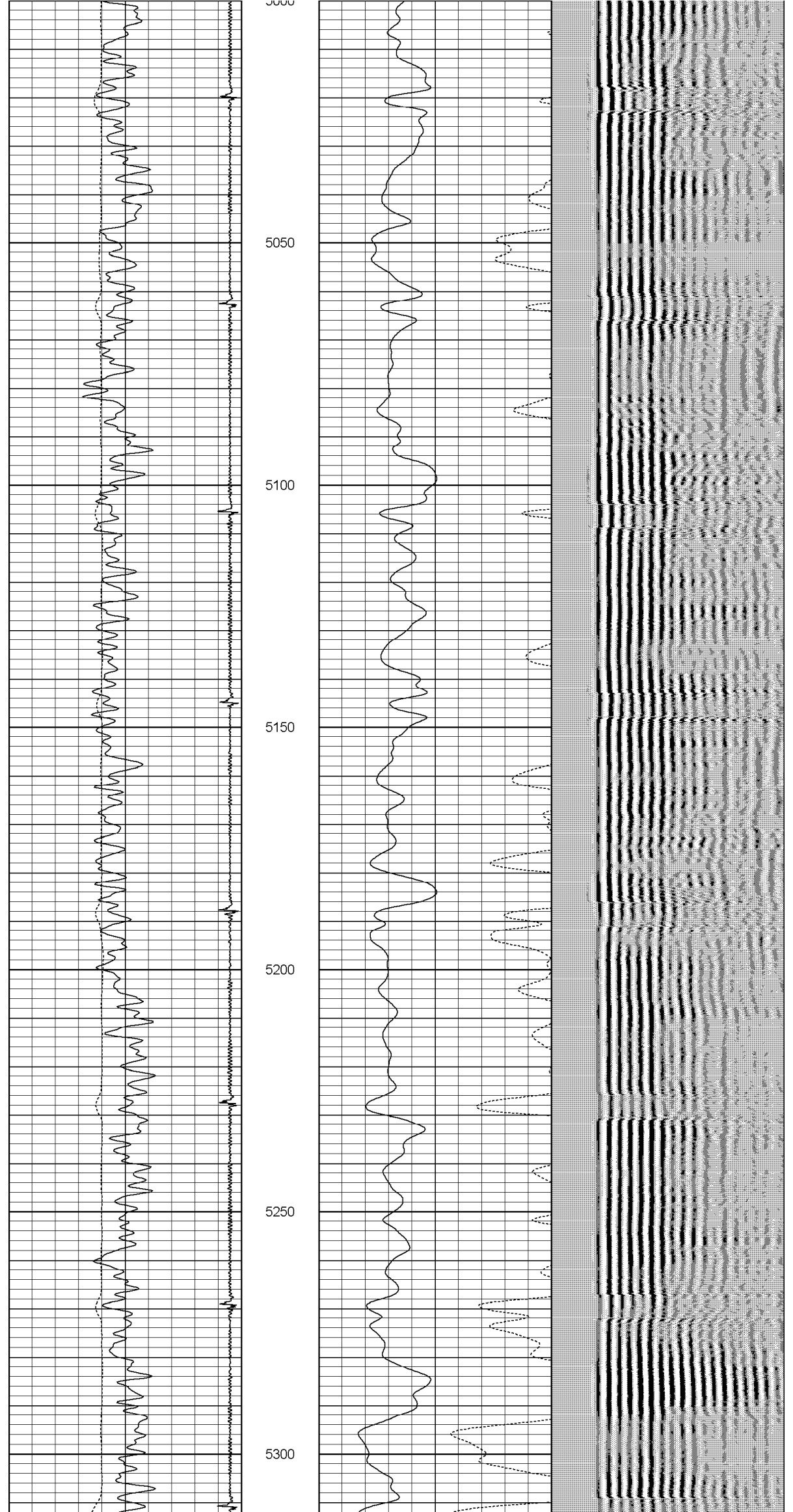
30 CCL -1.5
30 Gamma Ray (GAPI) 130
400 TT3 (usec) 100
200 GR (GAPI) 400
0 Amplitude (mV) 100
0 Amplified Amplitude (mV) 30
200 VDL 1200

Database File:	cbl noble guttersen d11-29d.db
Dataset Pathname:	pass1
Presentation Format:	bond
Dataset Creation:	Thu Jun 14 08:59:30 2012 by Log Std Casedhole 10081
Charted by:	Depth in Feet scaled 1:240

30 CCL -1.5
0 Gamma Ray (GAPI) 150
400 TT3 (usec) 100
200 GR (GAPI) 400

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

200 VDL 1200



Calibration Report

Database File: cbl noble guttersen d11-29d.db
Dataset Pathname: pass1
Dataset Creation: Thu Jun 14 08:59:30 2012 by Log Std Casedhole 10081

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110809

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION		Mon May 14 10:22:44 2012			
Background	0.0				cps
Calibrator	1.0				cps
		0.6000			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: Thu Jun 14 08:44:53 2012

Depth: 1137.01 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:	0.00944824	0.00925293	V
Reading in Free Pipe:	2.47375	2.38655	V
Gain:	32.6242	34.1548	
Offset:	0.491758	-0.316032	