SUPERIOR WELL SERVICES

GAMMA RAY CCL CEMENT BOND VDL

Company	NOBLE ENERGY INC.
Well	GUTTERSEN USX D21-25
Field	WATTENBERG
County	WELD
State	COLORADO

Company NOBLE ENERGY INC.

Well GUTTERSEN USX D21-25

Field WATTENBERG

County WELD State COLORADO

Location: API #: 0512335213

SHL: 1370' FSL & 1684' FWL

NE/SW

SEC 21 TWP 3N RGE 64W

Other Services

				Elevation
Permanent Datum	GL	Elevation	4821	K.B. 4835
Log Measured From	KB			D.F. 4835
Drilling Measured From	KB			G.L. 4821

Date	AUGUST 2, 2012
Run Number	ONE
Depth Driller	7232
Depth Logger	7179
Bottom Logged Interval	7178
Top Log Interval	1848
Open Hole Size	7-7/8
Type Fluid	WATER
Density / Viscosity	N/A
Max. Recorded Temp.	238 DEG. F
Estimated Cement Top	2113
Time Well Ready	PORTABLE MAST
Time Logger on Bottom	2-3/4 PROBE 110803
Equipment Number	4838
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	784
Prot. String				
Production String	4-1/2	11.6# M-80	14	7222
Liner				

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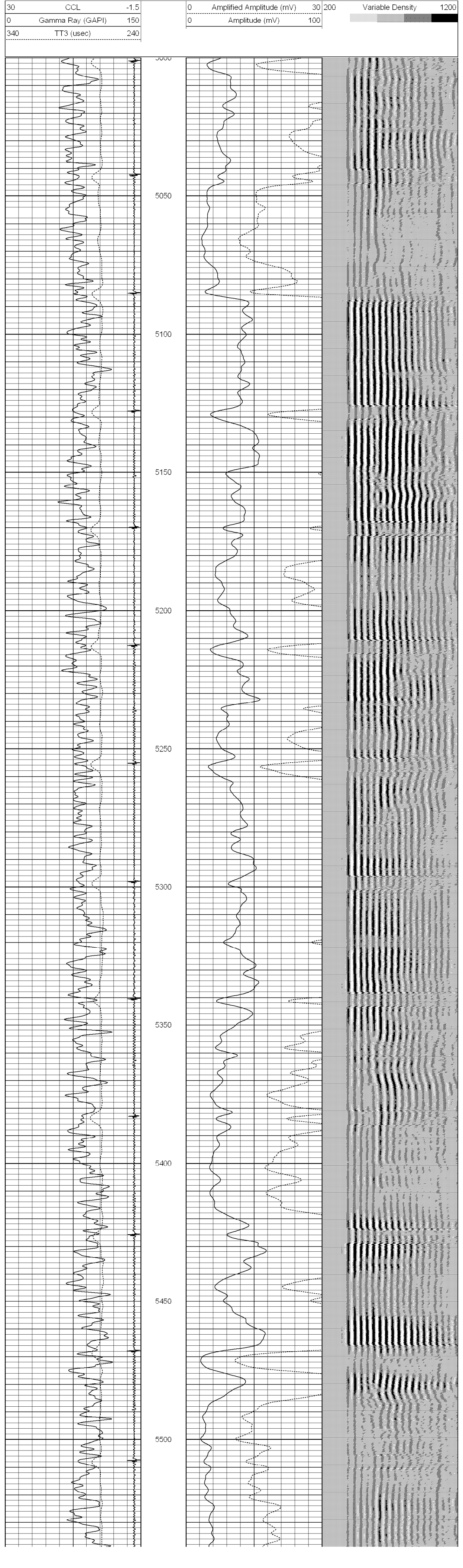
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 07-JUL-12
3RD WELL FROM THE NORTH OF A 6 WELL PAD

Database File:	cbl noble guttersen usx d21-25.db
Dataset Pathname:	pass2
Presentation Format:	noble en
Dataset Creation:	Thu Aug 02 09:25:54 2012 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240

Database File:	cbl noble guttersen usx d21-25.db
Dataset Pathname:	pass1
Presentation Format:	noble en
Dataset Creation:	Thu Aug 02 09:07:21 2012 by Log SCH 120430
Charted by:	Depth in Feet scaled 1:240



Calibration Report

Database File: cbl noble guttersen usx d21-25.db
Dataset Pathname: pass2
Dataset Creation: Thu Aug 02 09:25:54 2012 by Log SCH 120430

Gamma Ray Calibration Report

Type / Serial: Probe275dig / 110809

SHOP CALIBRATION Tue Jan 03 10:16:04 2012

	Counts/Sec.	Gain	Offset	Jig	Units
Background	0.0				cps
Calibrator	1.0				cps
		0.6800			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 Aug 02 08:50:27 2012	
Depth:	889.55	ft
Casing Diameter:	4.5	in

	3' Spacing	5' Spacing	
Signal Zero:	0.9	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	-0.00593262	-0.00588379	V
Reading in Free Pipe:	2.48918	2.32407	V
Gain:	32.1813	34.8488	
Offset:	1.09092	0.205043	