HALLIBURTON

Cement Bond Log
Gamma Ray, CCL

Company Noble Energy Production Inc.
Well Trebor B11-19
Field Wattenberg
County Weld State Colorado

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Field Wattenberg
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API No.: 05-123-26659-00 Serv #: 5611260
Location: 1320' FNL & 1320' FWL
NE NW

Other Services
None

Sec: 11 Twp: 5N Rge: 64W

Permanent Datum	GL	Elevation 4599		Elevation
Log Measured From	KB , 10 Ft. above perm. datum			K.B. 4609
Drilling Measured From	KB			D.F. 4608
				G.L. 4599

Date @ Time Logged	12 Jan 2008	Type Fluid in Hole	Fresh
Run No.	One	Density of Fluid	
Depth - Driller	6910	Fluid Level	Surface
Depth - Logger	6863	Cement Top Est. Logged	1954
Bottom - Logged Interval	6863	Equipment / Location	/ Brighton
Top - Log Interval	1750	Recorded by	Brian Bentley
Max. Recorded Temp.	210	Witnessed by	Scott Armstrong

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date / Time Cemented				
Primary / Squeeze				
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume				
Cement Type / Weight	/	/	/	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record			Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
One				4.5	11.6	6910	Surface

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HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHCIH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

Comments

Log correlated to PSI open hole log dated 3 Jan 2008.

Thank you for using Halliburton!!

Crew: Bentley, Smith, Peach

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Sussex Pass

5" = 100'

Database File: nbl-trebor-b11-19.db
Dataset Pathname: pass3
Presentation Format: cbldig
Dataset Creation: Sat Jan 12 14:27:10 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

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Sussex Pass

5" = 100'

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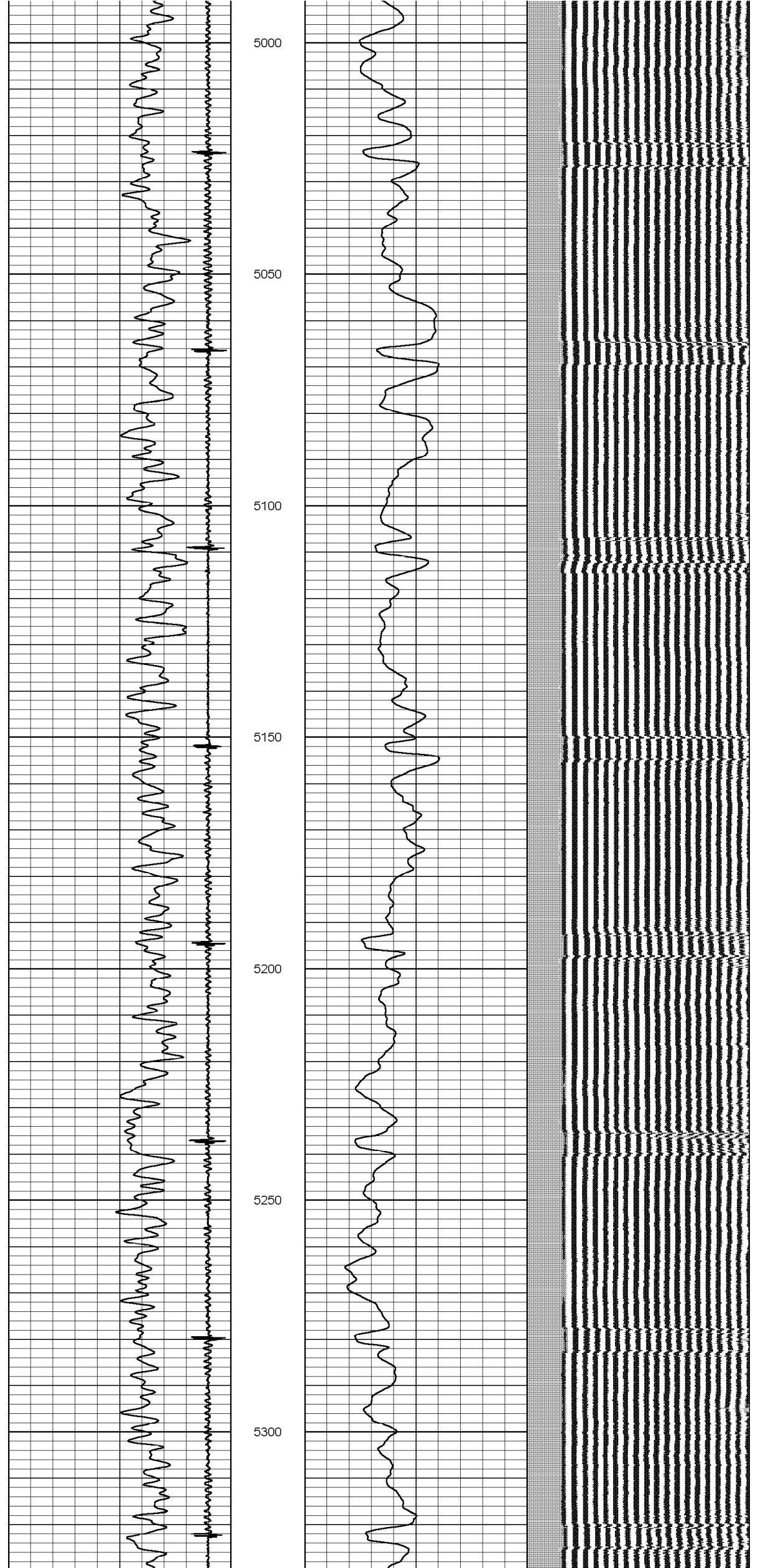
Main Pass

5" = 100'

Database File: nbl-trebor-b11-19.db
Dataset Pathname: pass2
Presentation Format: cbldig
Dataset Creation: Sat Jan 12 14:06:04 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240



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Main Pass

5" = 100'

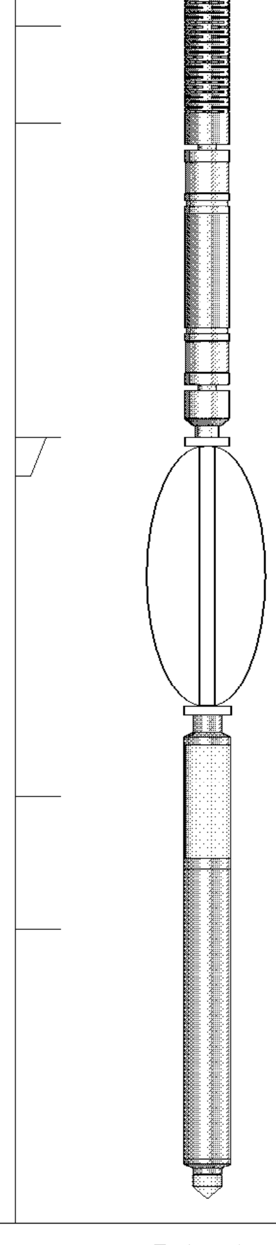
Log Variables

Database:C:\Warrior\Data\nbl-trebor-b11-19.db
Dataset: field/well/run1/pass3

Top - Bottom

PPT usec	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV	MINATTN db/ft	CASEOD in	PERFS	TDEPTH ft
0	11.6	82	1	0.8	4.5	0	0

BOTTEMP degF	BOREID in
100	7.875

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
WVF3FT WVF5FT	12.13 11.13		CBL_PRB275D-PRB275_Dig (040201) Probe 2 3/4" Digital 3' & 5' Bond - Move voltage to +/- 150 for cal mode	8.75	2.75	92.00
ProbeHV IntTemp	7.88 7.88		Probe_275 Probe 2 3/4 Centralizer	2.88	2.75	20.00
CCL GR	4.17 2.79		GR_PRB275-probe275dig (pr050806) Probe Digital Gamma CCL	4.75	2.75	57.00
			STD-Standard (0000)	0.25	0.00	1.00

Dataset: nbl-trebor-b11-19.db: field/well/run1/pass3
Total Length: 19.50 ft
Total Weight: 190.00 lb
O.D.: 2.75 in

Company	Noble Energy Production		
Well	Trebor B11-19		
Field	Wattenberg		
County	Weld	State	Colorado

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