HALLIBURTON

Cement Bond Log
Gamma Ray
CCL

Company	Noble Energy Inc.		
Well	Ritchey H34-29		
Field	Wattenberg		
County	Weld	State	Colorado

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API No.:	05-123-25902	Serv #:	
Location:	135' FSL & 1320' FWL SW SW		Other Services
Sec: 27	Twp: 3N	Rge: 65W	

Permanent Datum	GL	Elevation	4833	Elevation	KB. 4847 D.F. 4846 G.L. 4833
Log Measured From	KB	14	Ft. above perm. datum		
Drilling Measured From	KB				
Date @ Time Logged	30-June-2008	Type Fluid in Hole	Fresh Water		
Run No.	One	Density of Fluid	8.4		
Depth - Driller	7762	Fluid Level	Surface		
Depth - Logger	7683	Cement Top Est. Logged	2350		
Bottom - Logged Interval	7680	Equipment / Location	/	Brighton	
Top - Log Interval	2100	Recorded by	Adan Saenz		
Max. Recorded Temp.		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
				4.5	11.6	Surface	TD

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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 log dated June 22, 2008

Estimated top of cement: 2350

J-Sand Pass & Main Pass logged under 1000 PSI
Sussex Pass logged under 2000 PSI

Thank you for choosing Halliburton

Crew today was Saenz, Pataluna, Townsend, Hansen

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Sussex Pass (Logged under 2000 PSI)

Scale 1:240

Database File: noble_ritchey_h34_29_cbl.db
Dataset Pathname: pass8
Presentation Format: cbldig
Dataset Creation: Mon Jun 30 21:09:26 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1		0	Amplitude (mV)	100	200	Variable Density	1200
0	GR CBL (GAPI)	150		0	Amplified Amplitude (mV)	10			

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Sussex Pass (Logged under 2000 PSI)

Scale 1:240

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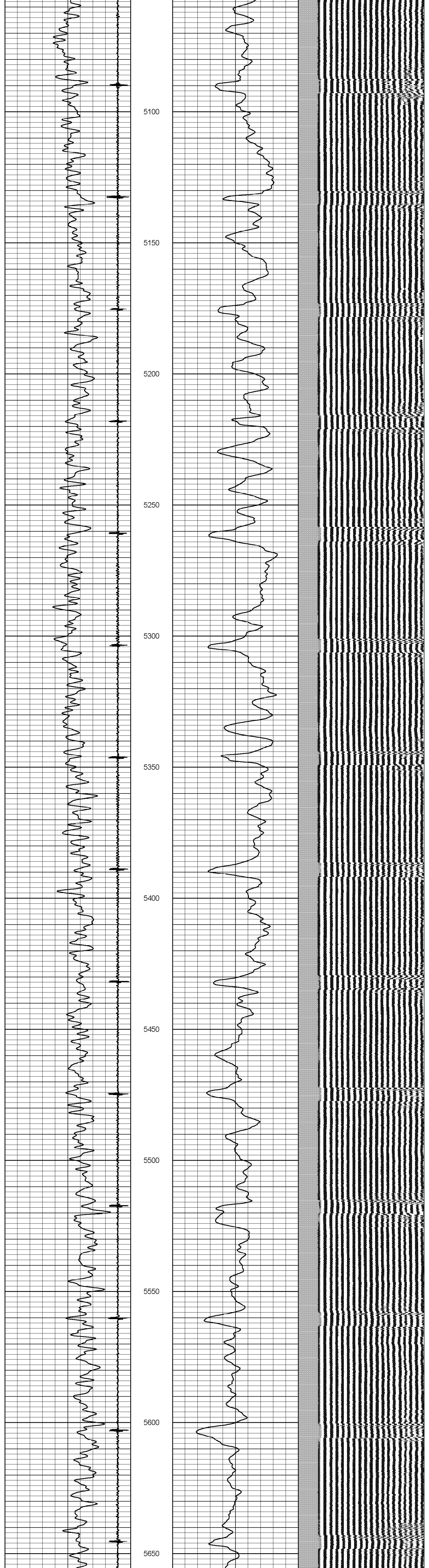
Main Pass (Logged under 1000 PSI)

Scale 1:240

Database File: noble_ritchey_h34_29_cbl.db
Dataset Pathname: pass7
Presentation Format: cbldig
Dataset Creation: Mon Jun 30 20:38:44 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

9	Collar Locator	-1		0	Amplitude (mV)	100	200	Variable Density	1200
0	GR CBL (GAPI)	150		0	Amplified Amplitude (mV)	10			



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Main Pass (Logged under 1000 PSI)

Scale 1:240

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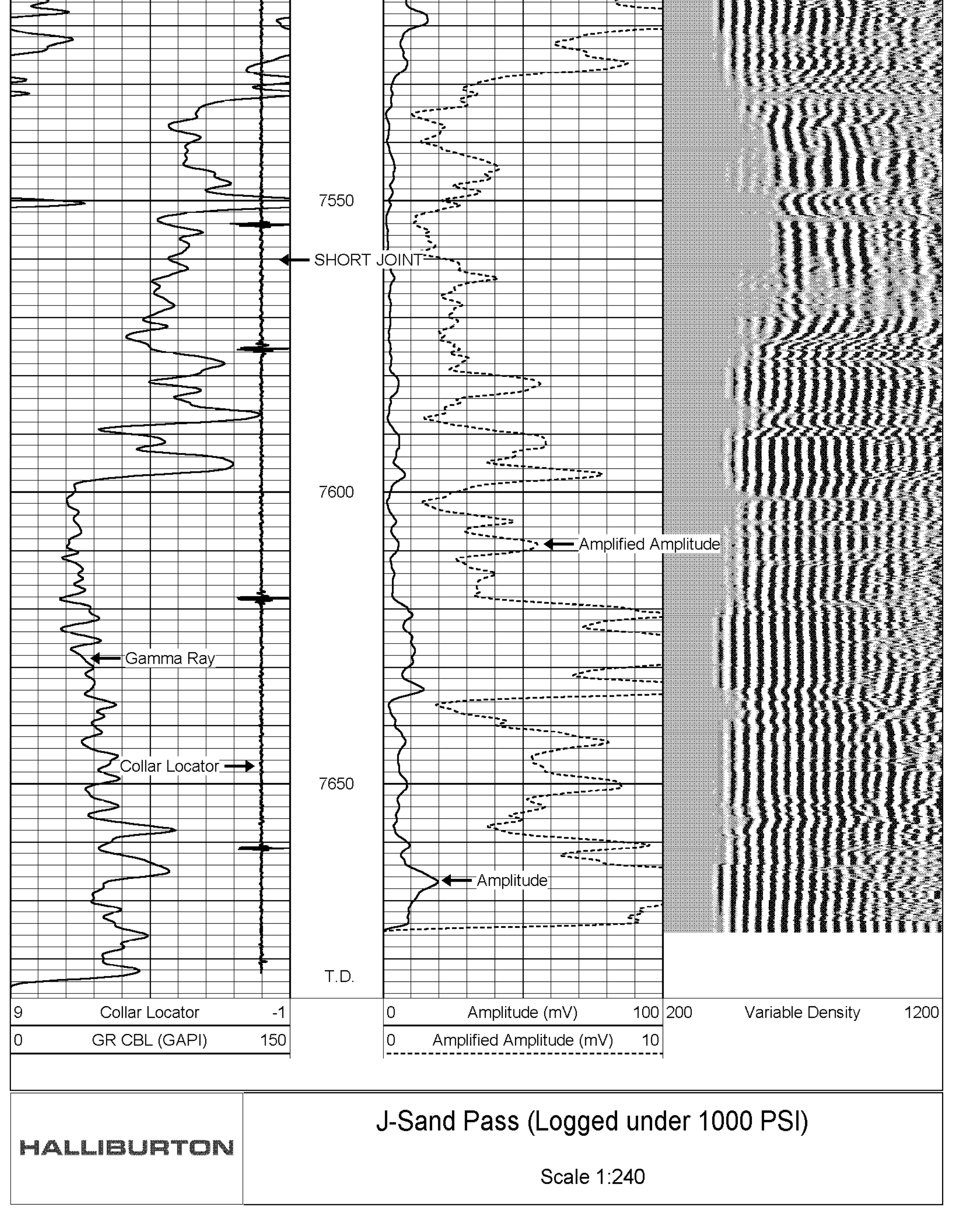
J-Sand Pass (Logged under 1000 PSI)

Scale 1:240

Database File:	noble_ritchey_h34_29_cbl.db
Dataset Pathname:	pass6
Presentation Format:	cbldig
Dataset Creation:	Mon Jun 30 20:33:39 2008 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240



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J-Sand Pass (Logged under 1000 PSI)

Scale 1:240

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