HALLIBURTON

Cement Bond Log
Gamma Ray
CCL

Scale 1:240

Company	Noble Energy Inc.
Well	Dechant D07-32
Field	Wattenberg
County	Weld
State	Colorado

Company Noble Energy Inc.
Well Dechant D07-32
Field Wattenberg
County Weld State Colorado

API No.: 05-123-26911-00 Serv #:
Location: 2507' FSL & 190' FWL
NW SW

Other Services
None

Sec: 7 Twp: 3N Rge: 64W

Permanent Datum	GL	Elevation 4838		Elevation
Log Measured From	KB , 13 Ft. above perm. datum			K.B. 4851
Drilling Measured From	KB			D.F. 4851 G.L. 4838
Date @ Time Logged	31-July-2008	Type Fluid in Hole	Water	
Run No.	One	Density of Fluid	8.4	
Depth - Driller	7697	Fluid Level	Surface	
Depth - Logger	7562	Cement Top Est. Logged	1490	
Bottom - Logged Interval	7560	Equipment / Location	10842985 / Brighton	
Top - Log Interval	1234	Recorded by	Michael Snyder	
Max. Recorded Temp.	220	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	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

Cement Bond Log was correlated to Compensated Density/Neutron Microlog recorded by PSI, dated 25

Thank you for choosing Halliburton!

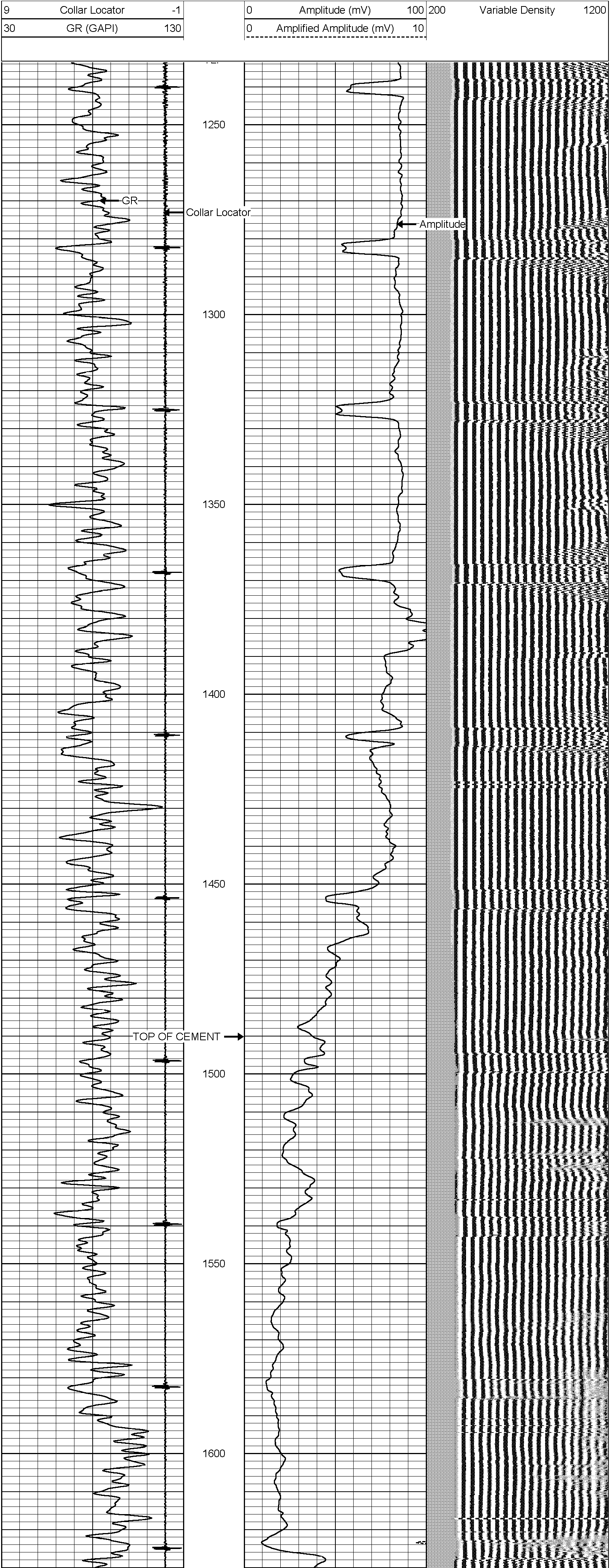
Your crew today: Michael Snyder, Jake Walker, Jason Morrison

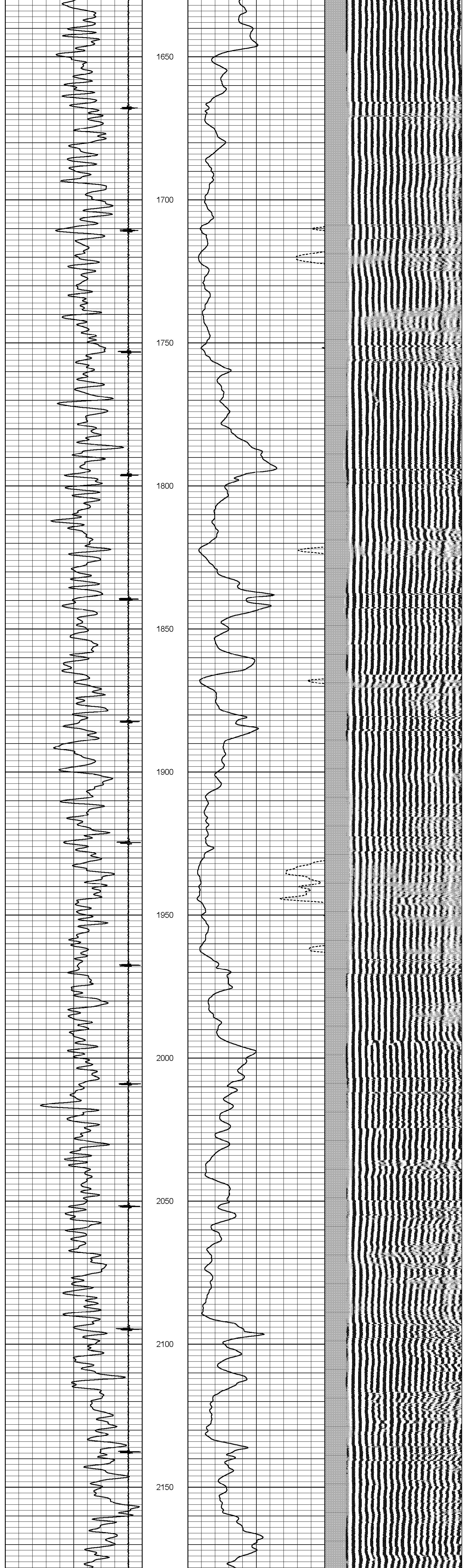
HALLIBURTON

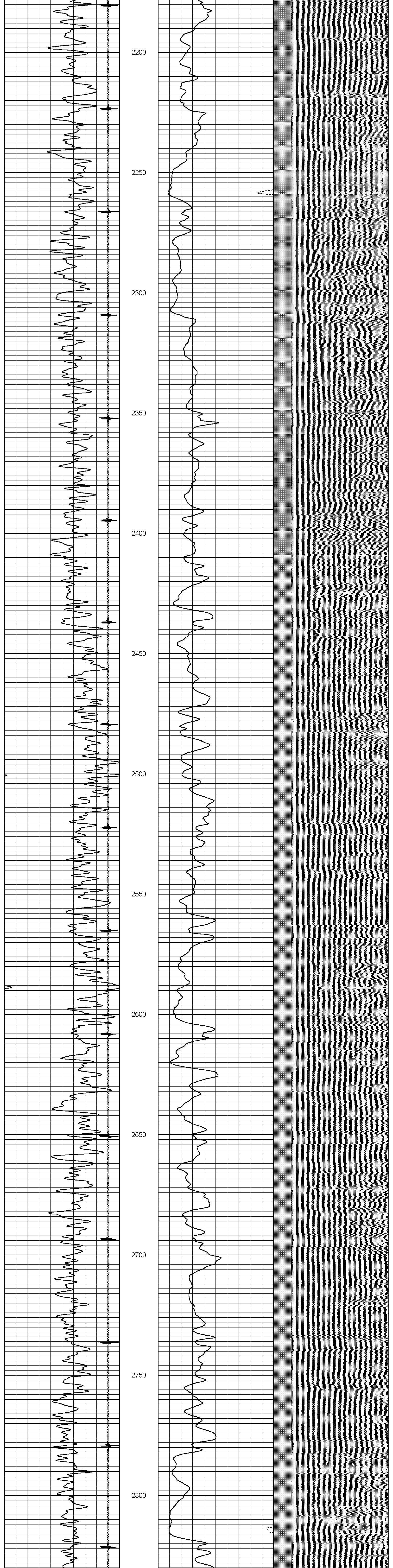
Sussex Pass

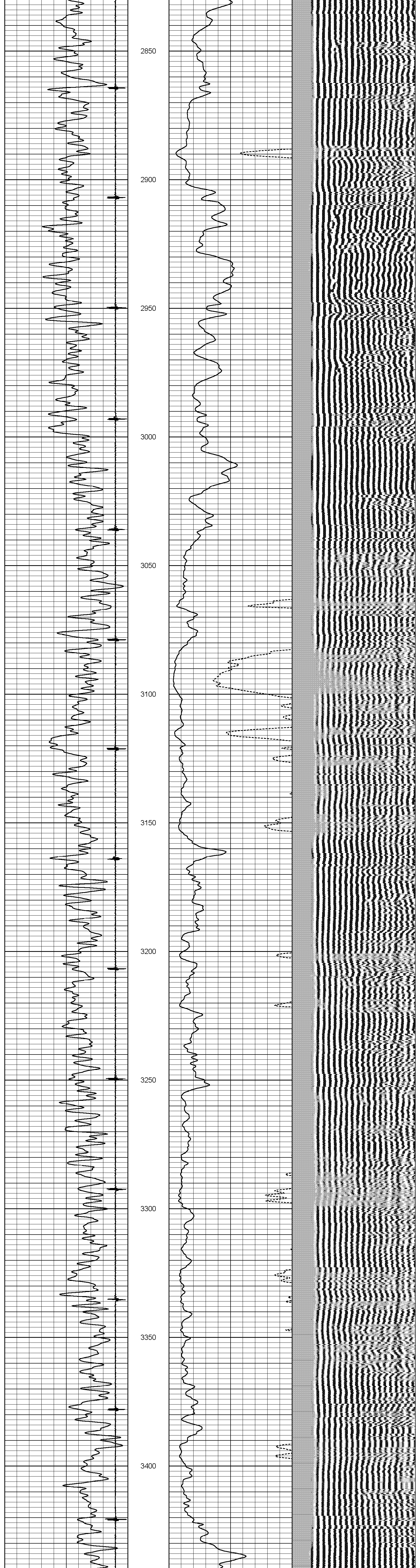
Scale 1:240

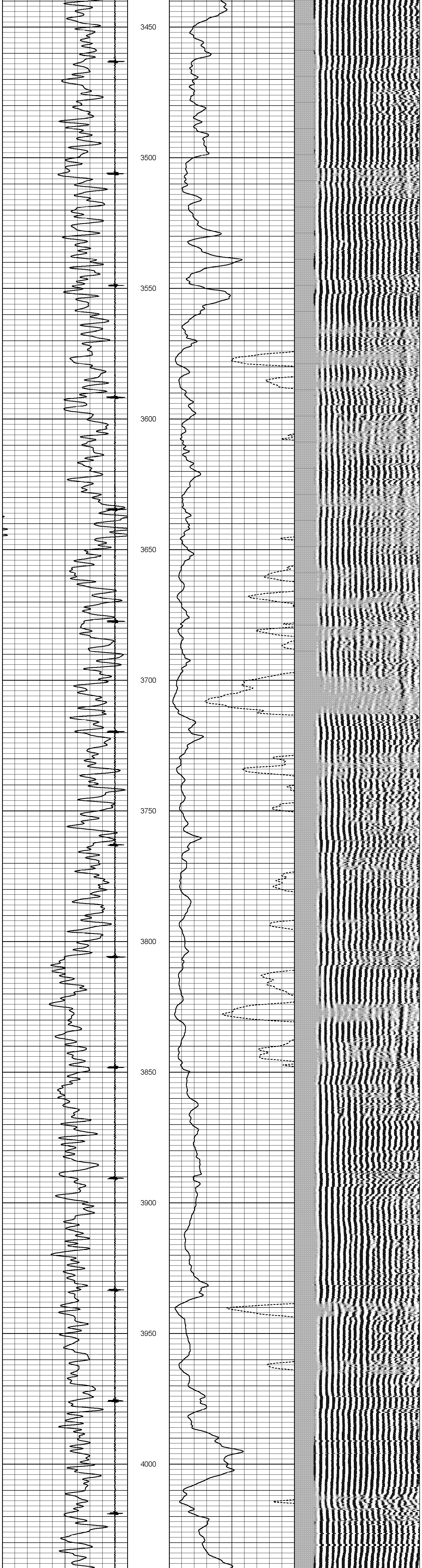
Database File: noble_dechant_d07-32.db
Dataset Pathname: pass4
Presentation Format: cbldig
Dataset Creation: Fri Aug 01 02:04:49 2008 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

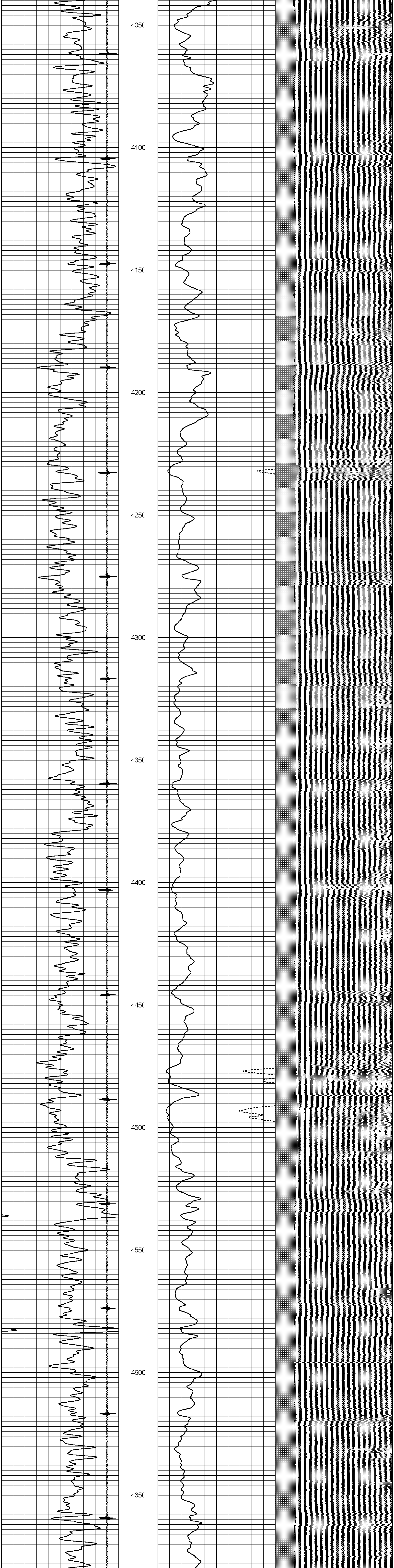


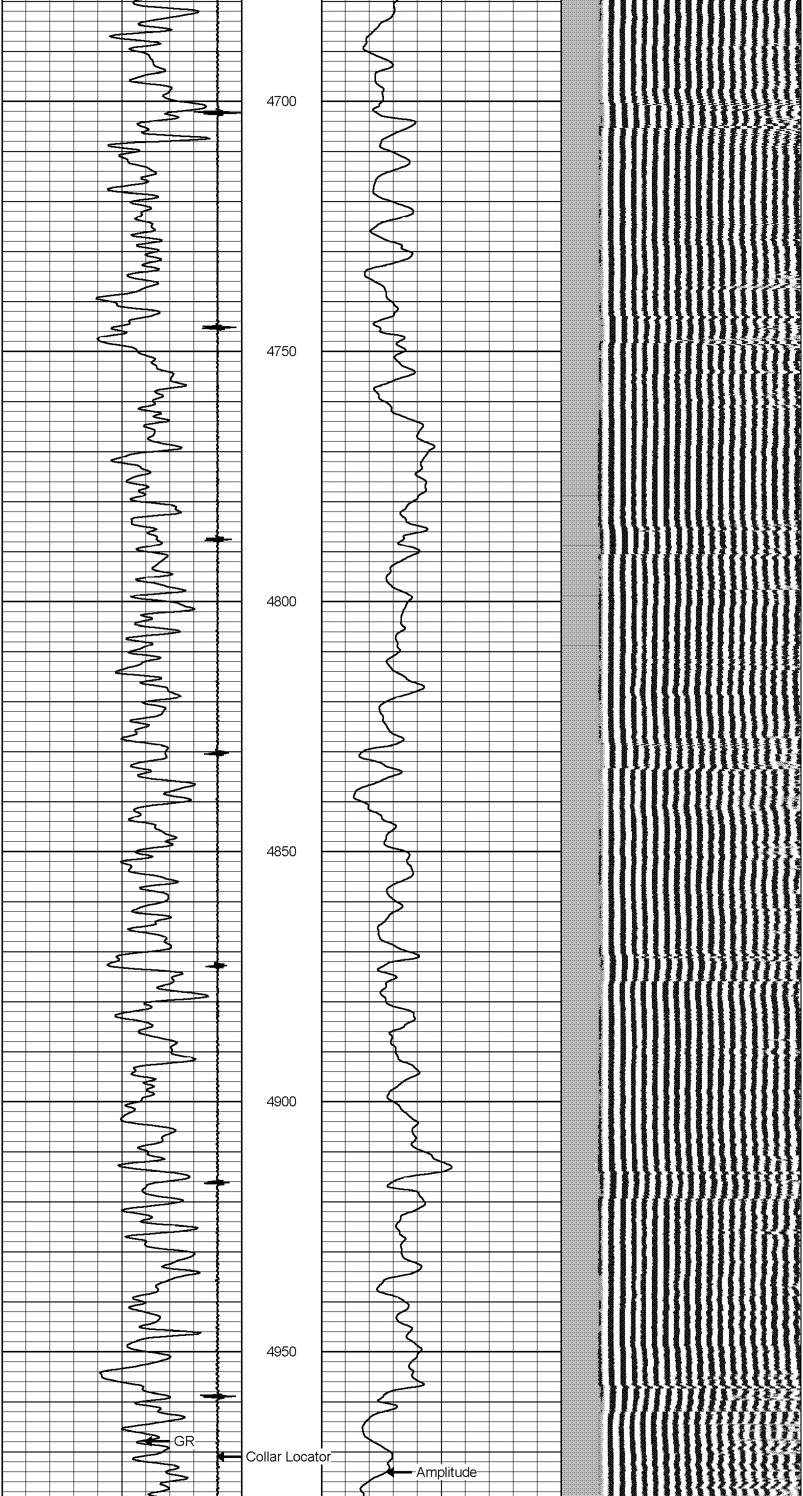


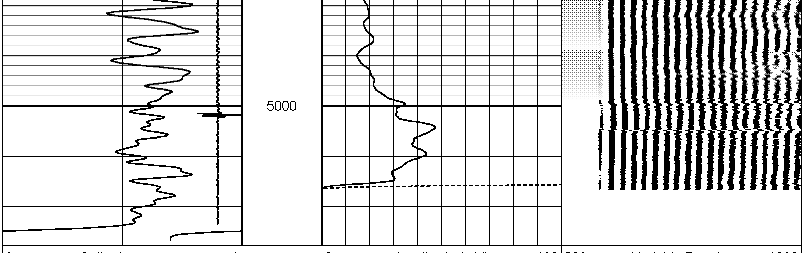












9 Collar Locator -1	0 Amplitude (mV) 100	200 Variable Density 1200
30 GR (GAPI) 130	0 Amplified Amplitude (mV) 10	

HALLIBURTON

Sussex Pass

Scale 1:240

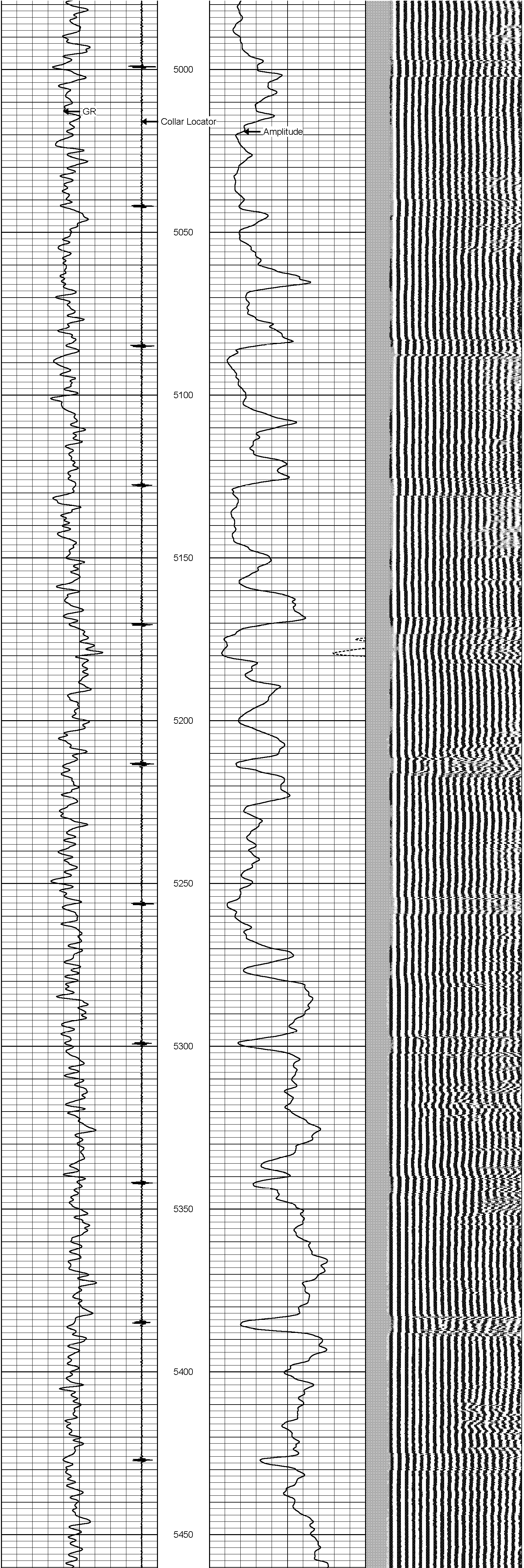
HALLIBURTON

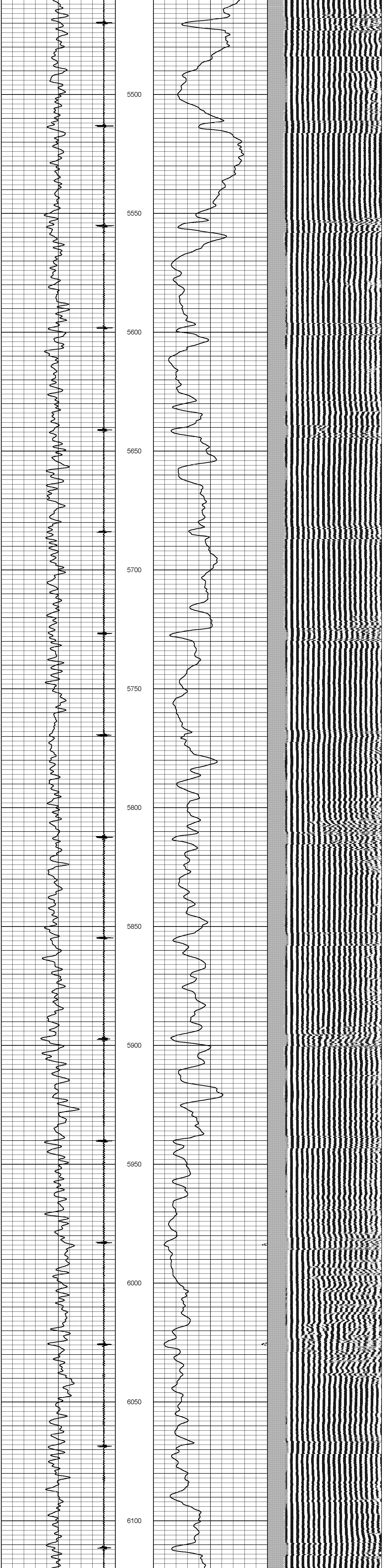
Main Pass

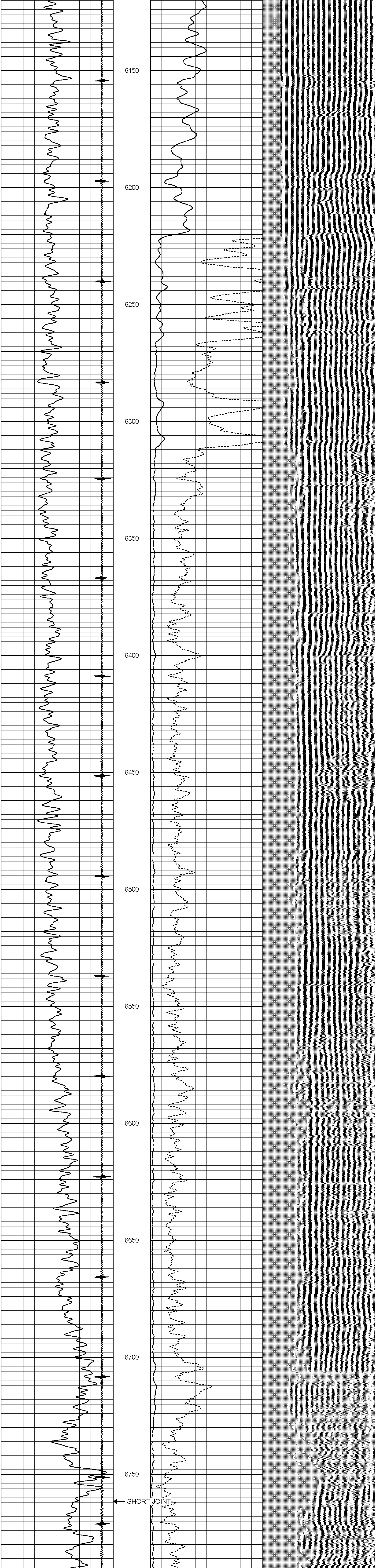
Scale 1:240

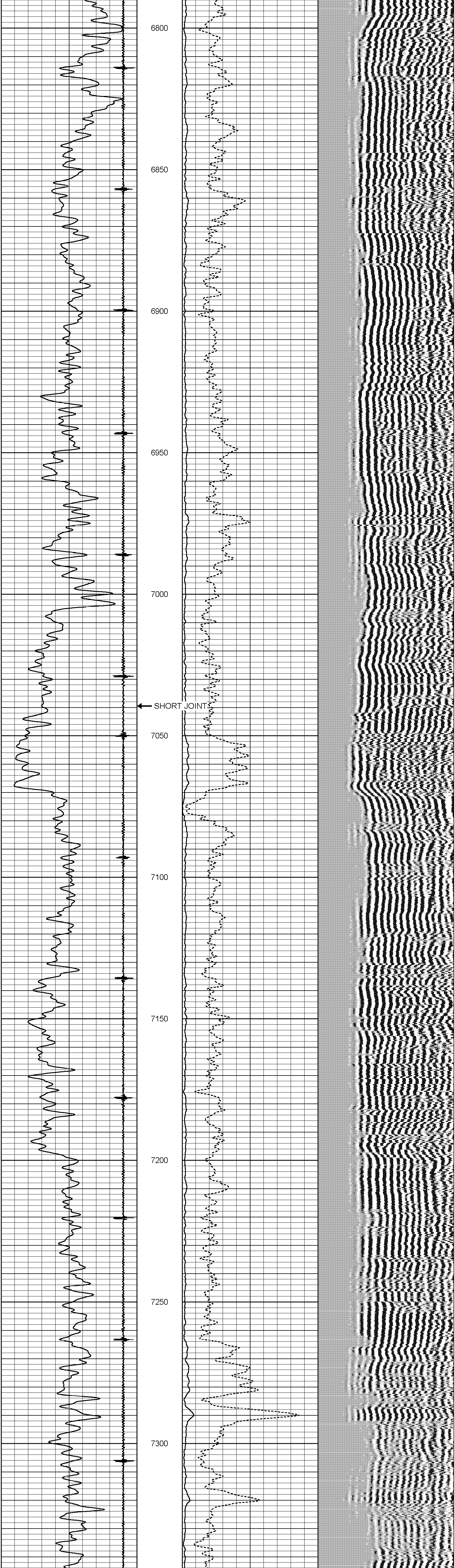
Database File:	noble_dechant_d07-32.db
Dataset Pathname:	pass3
Presentation Format:	cbldig
Dataset Creation:	Fri Aug 01 01:35:11 2008 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

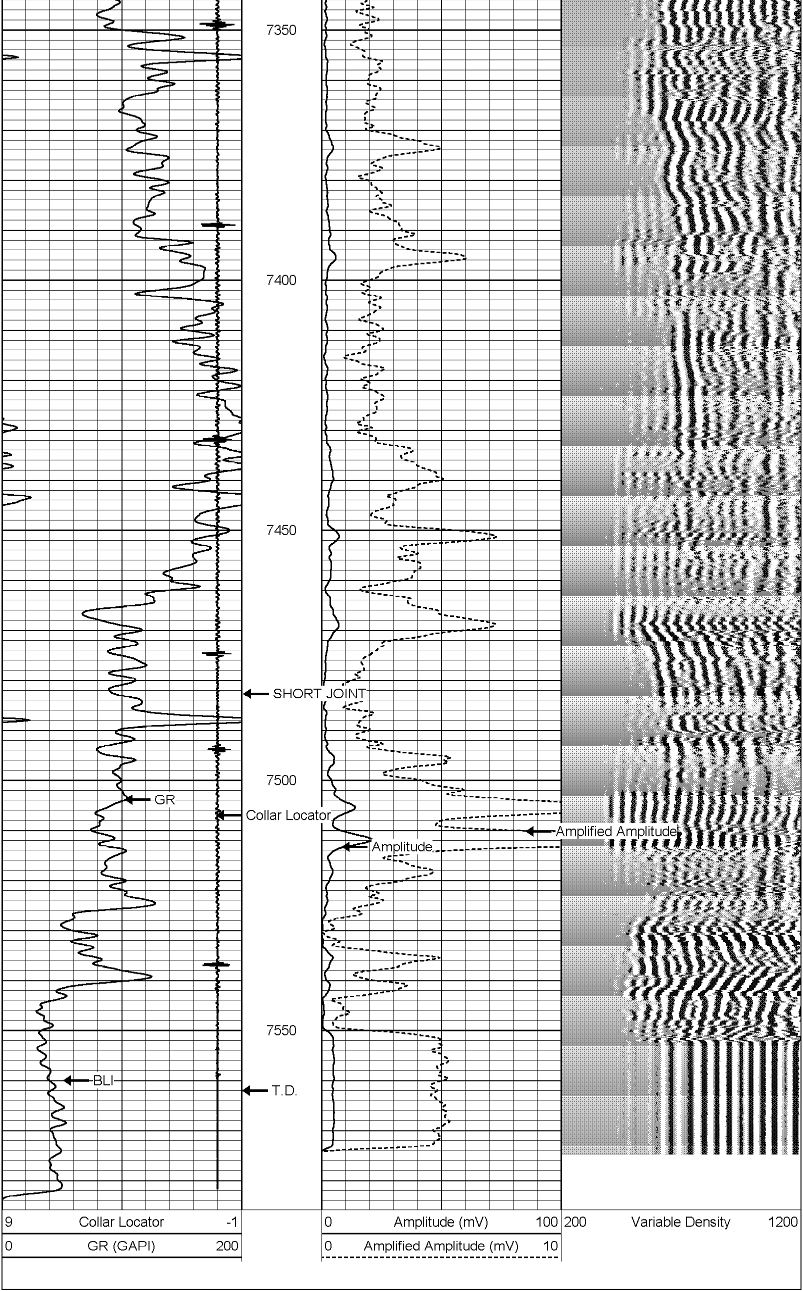
9 Collar Locator -1	0 Amplitude (mV) 100	200 Variable Density 1200
0 GR (GAPI) 200	0 Amplified Amplitude (mV) 10	











HALLIBURTON

Main Pass

Scale 1:240

Calibration Report

Database File: noble_dechant_d07-32.db
Dataset Pathname: pass3
Dataset Creation: Fri Aug 01 01:35:11 2008 by Log Halliburton Casedho

Gamma Ray Calibration Report

Type / Serial: probe275dig / pr050806

SHOP CALIBRATION Wed Oct 24 07:43:23 2007

	Counts/Sec.	Gain	Offset	Jig	Units
Background	107.0				cps
Calibrator	423.6				cps
		0.7517			GAPI/cps

PRIMARY VERIFICATION Wed Oct 24 07:46:19 2007

Background	80.9				cps
Calibrator	315.3				cps
Difference				234.4	GAPI

BEFORE SURVEY VERIFICATION

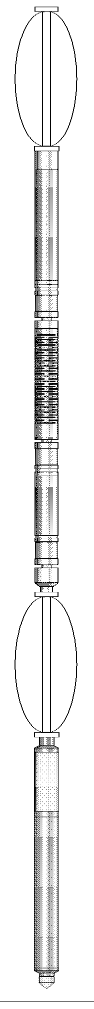
Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

AFTER SURVEY VERIFICATION

Background	0.0				cps
Calibrator	0.0				cps
Difference				0.0	GAPI

CBL Calibration Report

Serial Number:	040201	
Tool Model:	PRB275_Dig	
Performed:	Fri Aug 01 01:13:26 2008	
Depth:	731.976	ft
Casing Diameter:	5.500	in
	3' Spacing	
Signal Zero:	0.000	mV
Calibrated Amplitude:	82.000	mV
Reading at Signal Zero:	0.001	V
Reading in Free Pipe:	0.572	V
Gain:	143.486	
Offset:	-0.082	

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: noble_dechant_d07-32.db: field/well/run1/pass3
Total Length: 19.50 ft
Total Weight: 190.00 lb
O.D. 2.75 in

Company	Noble Energy Inc.
Well	Dechant D07-32
Field	Wattenberg
County	Weld
State	Colorado

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Gamma Ray
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