HALLIBURTON

Cement Bond Log
Gamma Ray, CCL

Scale 1:240

Company Encana Oil & Gas (USA) Inc
Well Vessels Minerals 13-19
Field Wattenberg
County Weld State Colorado

Company	Encana Oil & Gas (USA) Inc		
Well	Vessels Minerals 13-19		
Field	Wattenberg		
County	Weld	State	Colorado

API No.: 051233027600 Serv #:

Location: SHL: 1514' FSL/ 1038' FWL
BHL: 2131' FSL/ 528' FWL
NWSW

Sec: 19 Twp: 1N Rge: 68W

Other Services

None

Permanent Datum	GL	Elevation 5064		Elevation	
Log Measured From	KB , 15 Ft. above perm. datum			K.B.	5079
Drilling Measured From	KB			D.F.	5078
				G.L.	5064

Date @ Time Logged	14-July-09	Type Fluid in Hole	Water
Run No.	One	Density of Fluid	8.4
Depth - Driller	8560	Fluid Level	Surface
Depth - Logger	8474	Cement Top Est. Logged	4354
Bottom - Logged Interval	8472	Equipment / Location	10971660 / Brighton
Top - Log Interval	4154	Recorded by	Michael Snyder
Max. Recorded Temp.	NA	Witnessed by	Tom Cobb

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		350 Sacks	370 Sacks	
Cement Type / Weight	/	1.95Y / 12.5	1.69Y / 13.5 PPG	/
Formulation		Econ Cem	Frac Cem	
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.

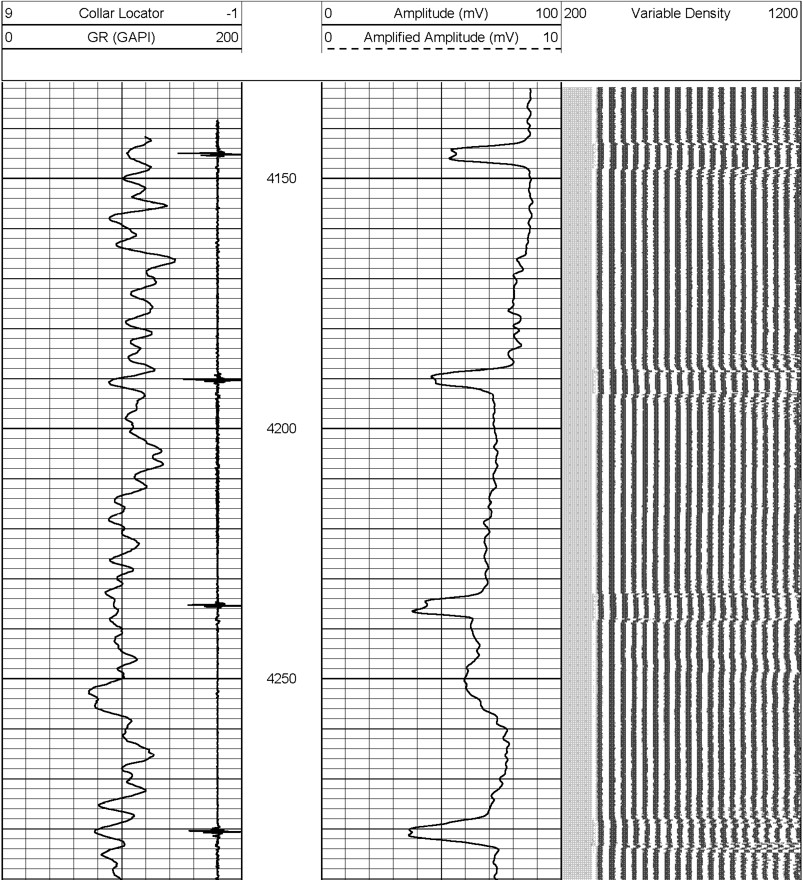
Comments

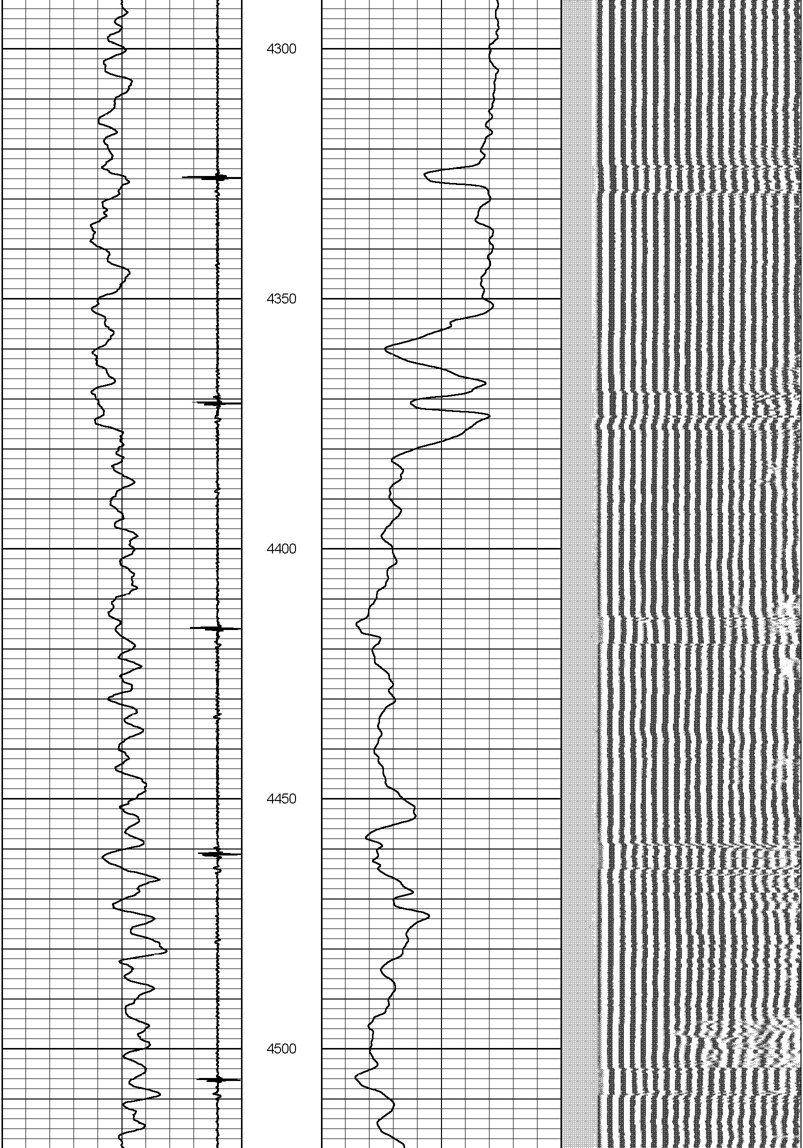
AFE: 08108660
Logged from 6950 to 4154 under 1000 PSI

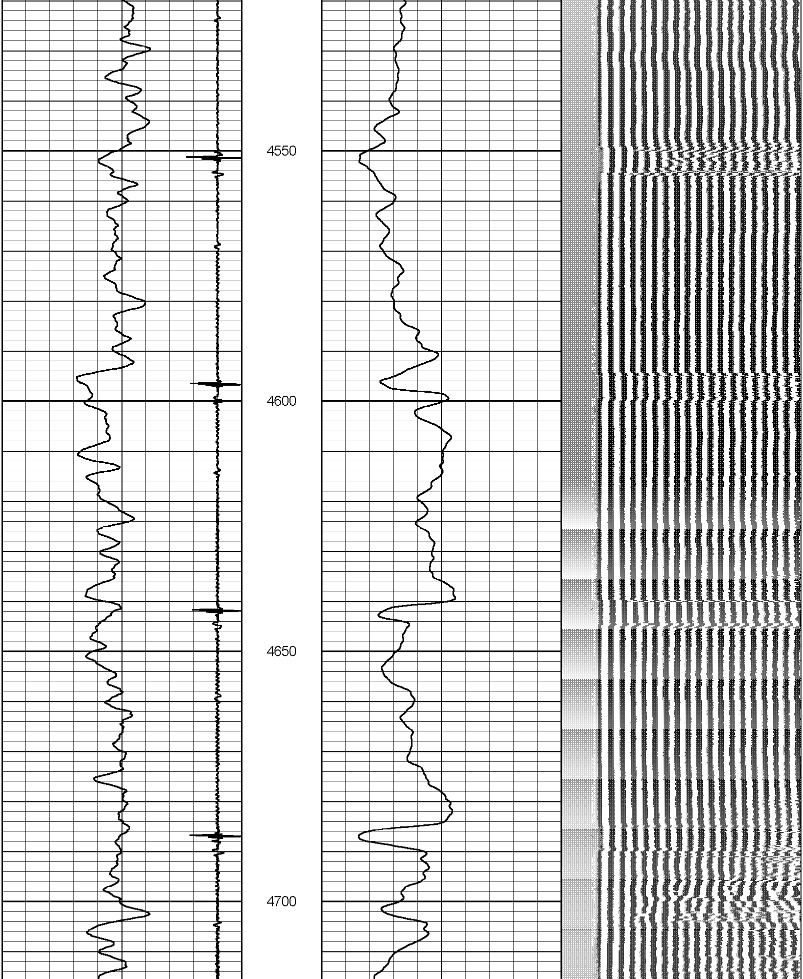
Thank you for choosing Halliburton!

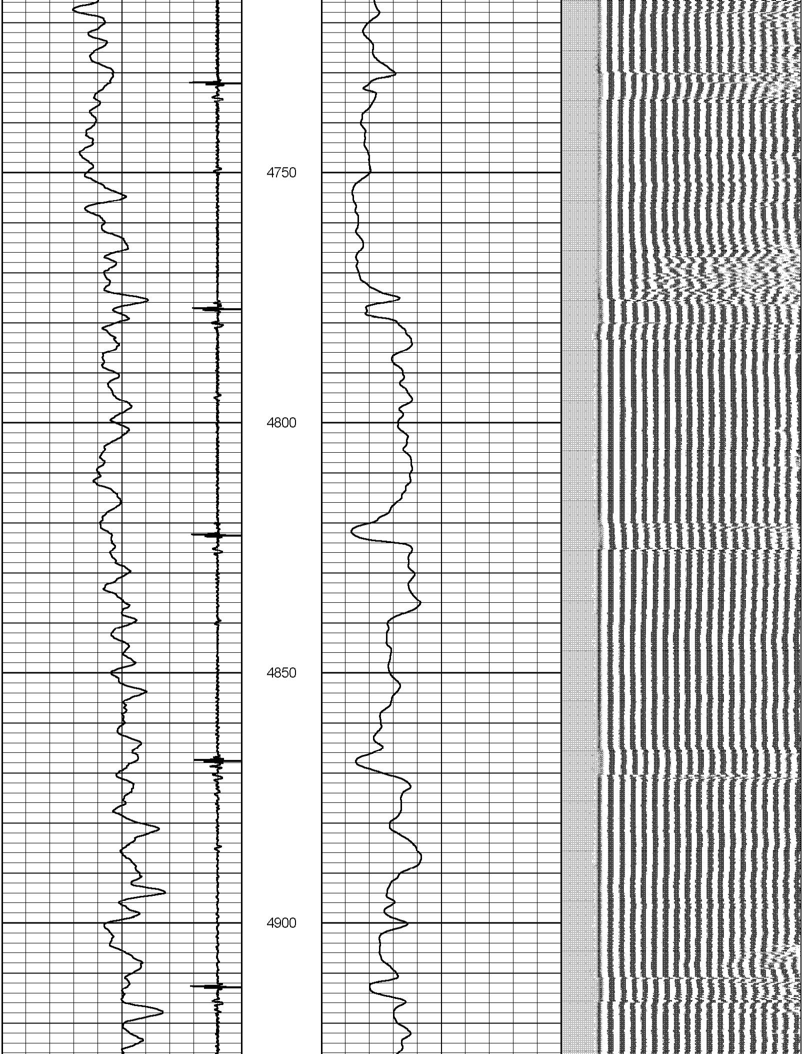
Your crew today: Michael Snyder, Jake Walker

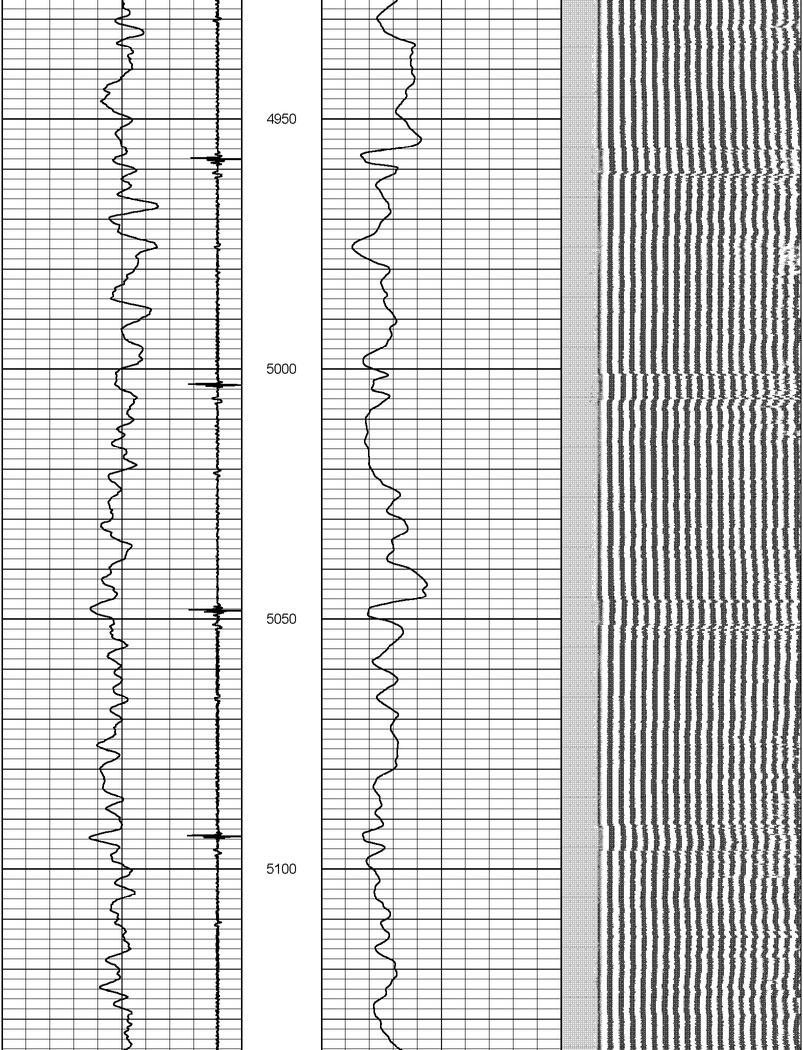
Database File: vessels_minerals13-19.db
Dataset Pathname: sussex
Presentation Format: mikecbl1
Dataset Creation: Tue Jul 14 14:26:24 2009
Charted by: Depth in Feet scaled 1:240

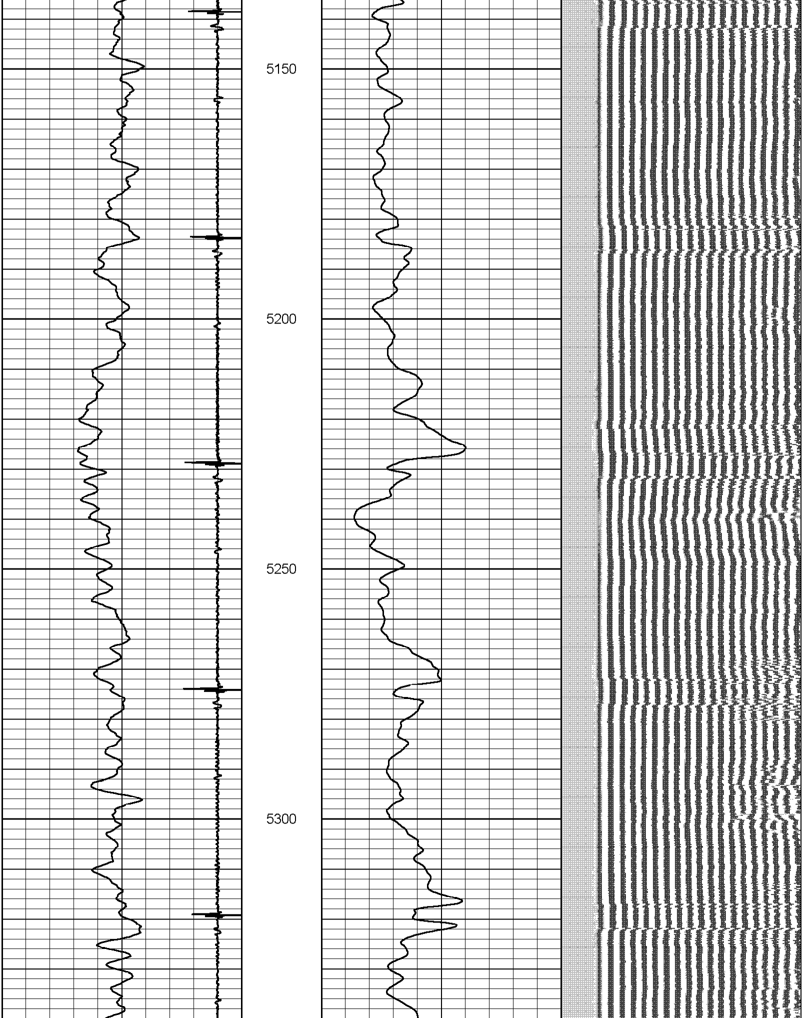


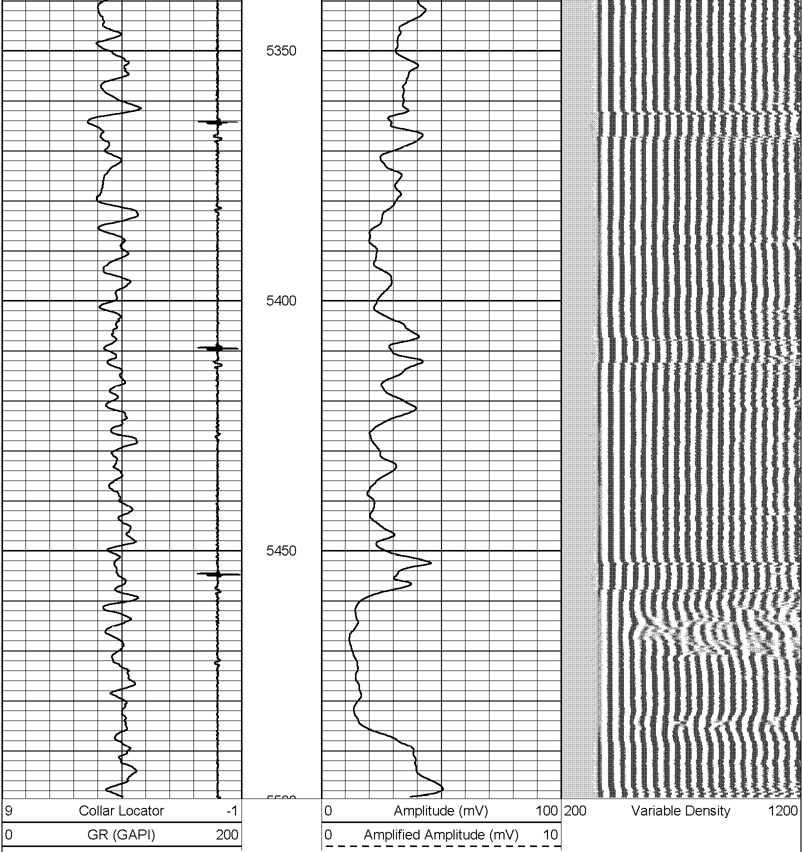




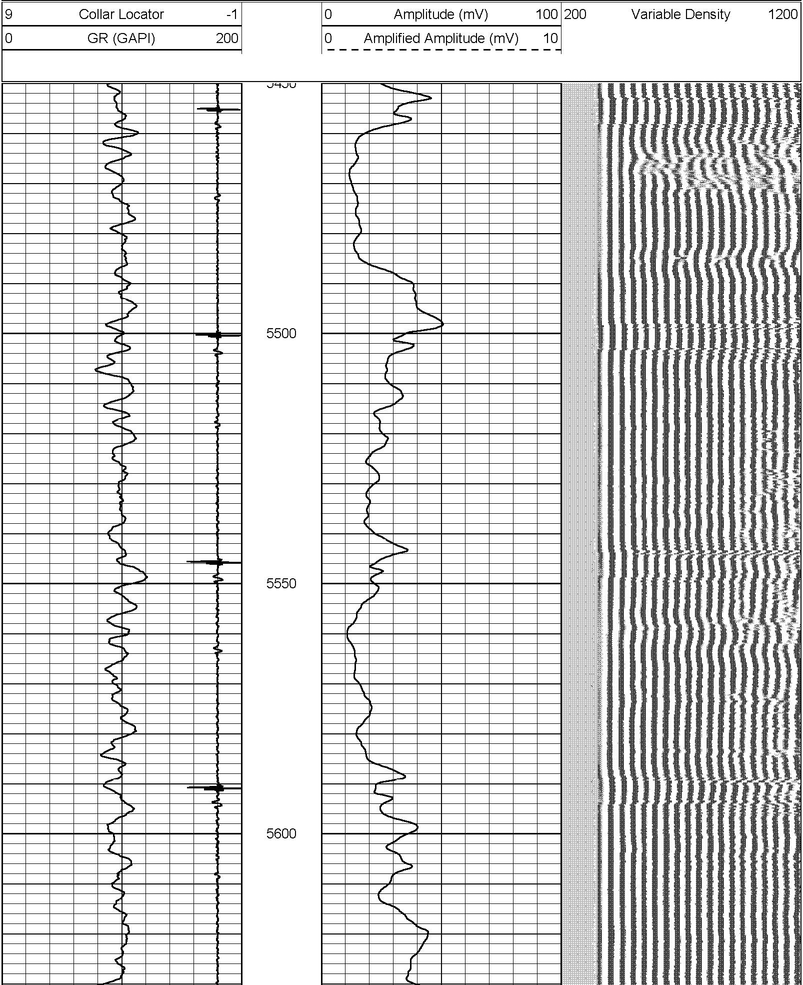


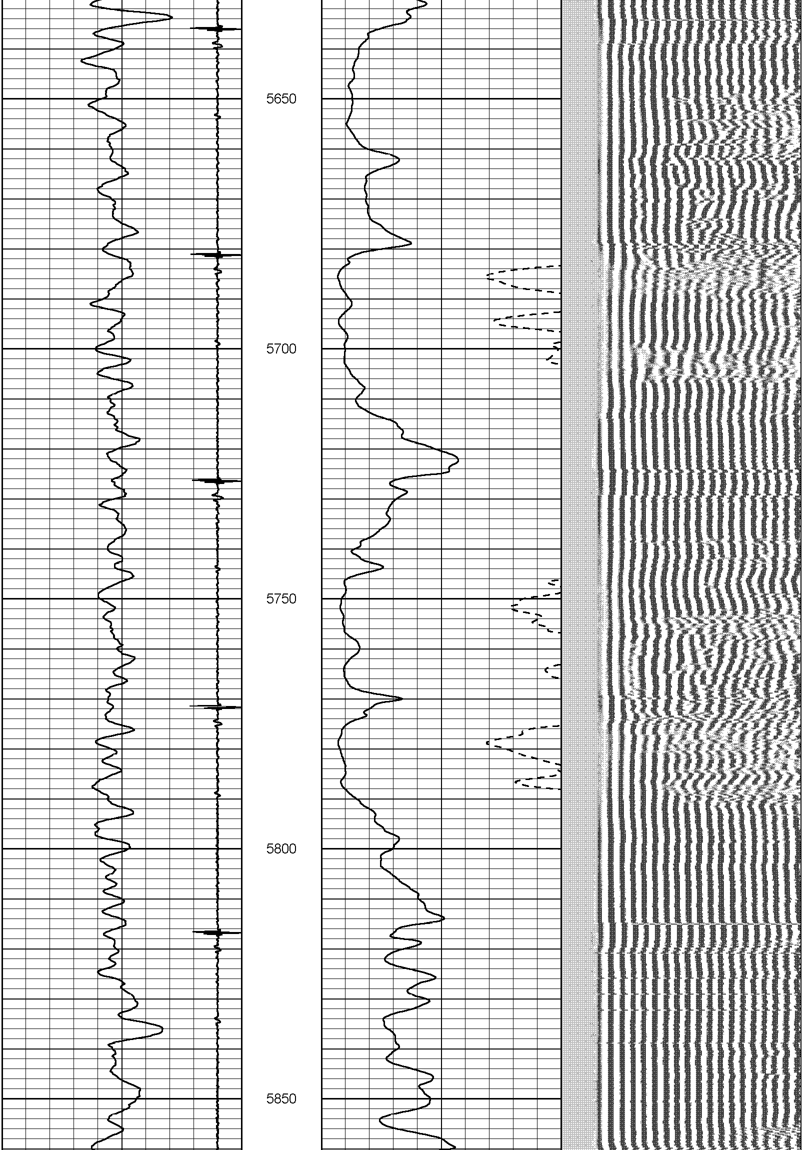


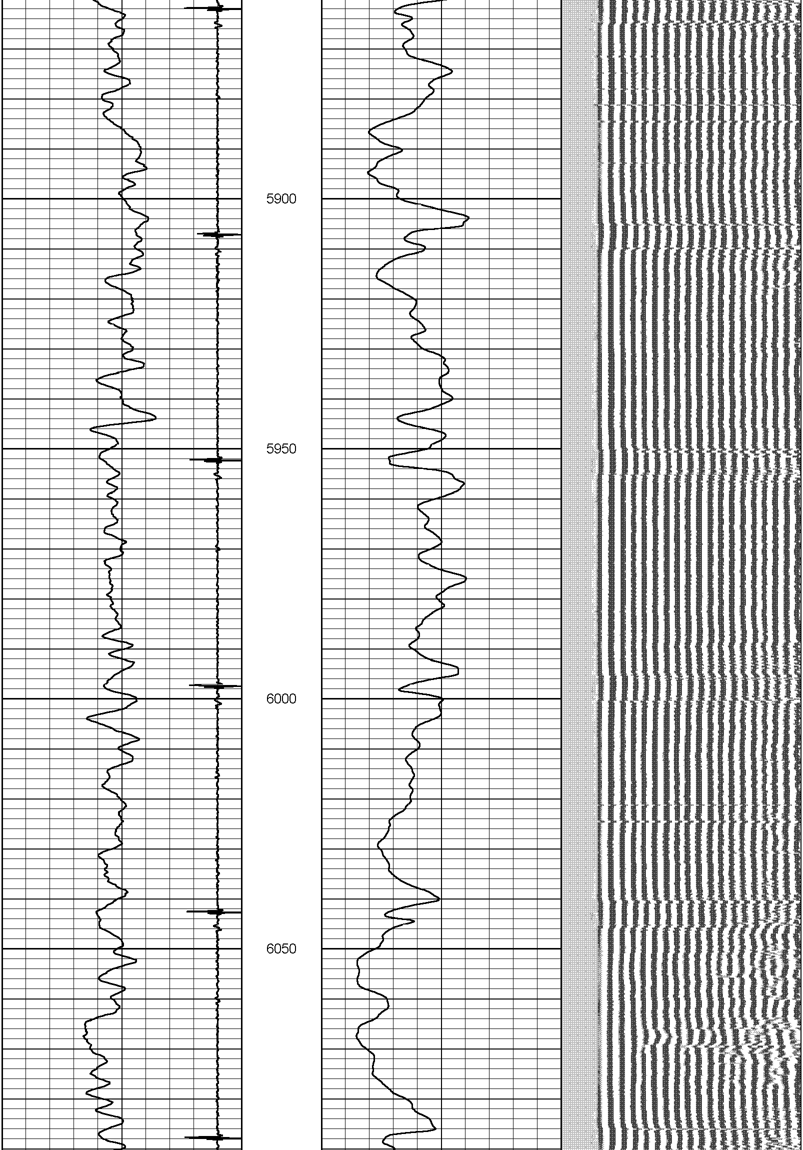


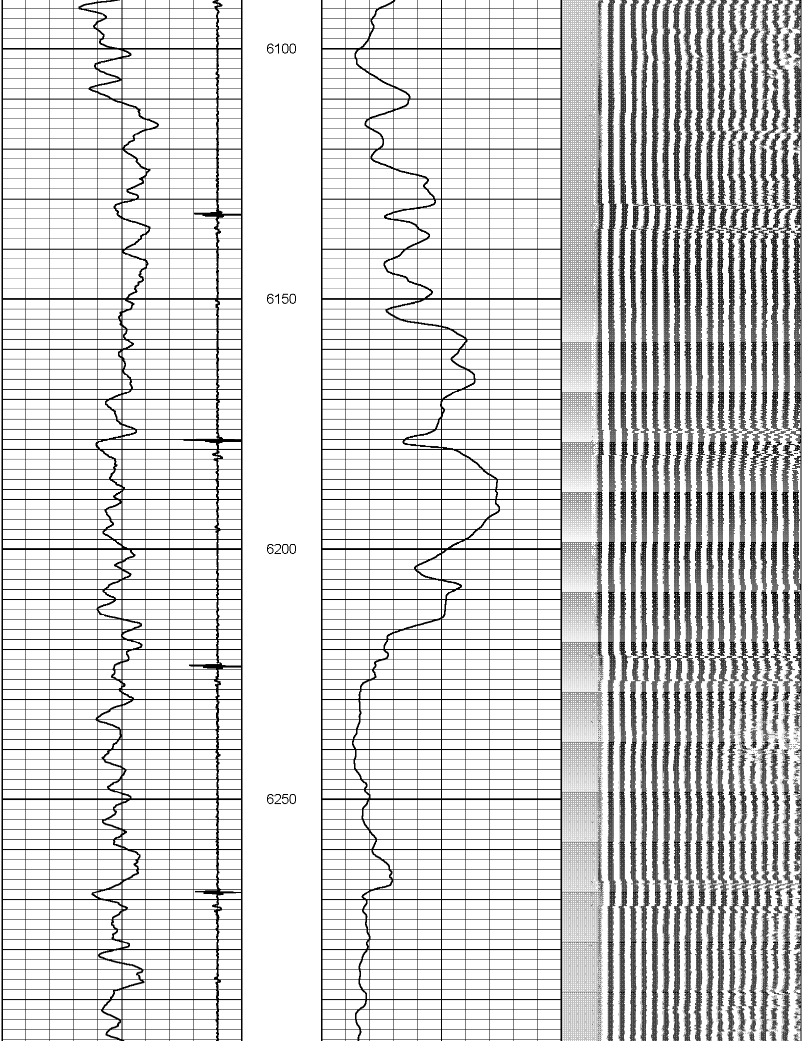


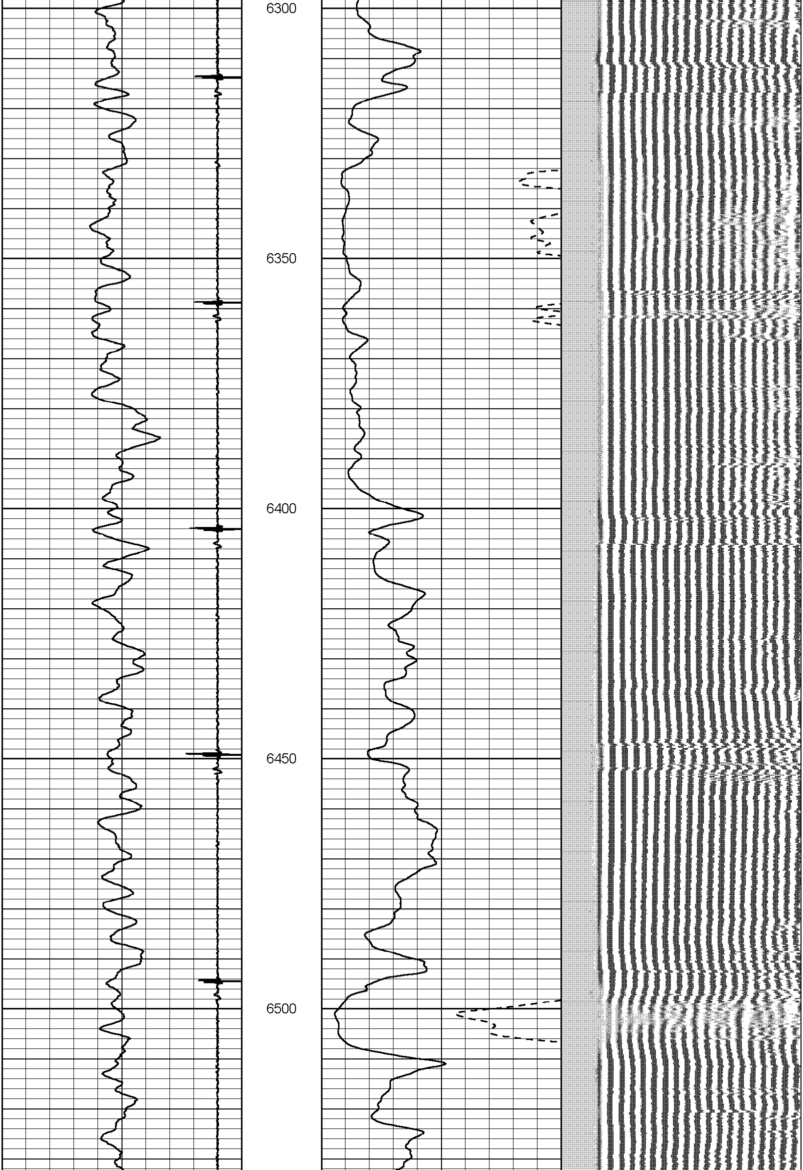
Database File:	vessels_minerals13-19.db
Dataset Pathname:	splice2
Presentation Format:	mikecbl1
Dataset Creation:	Tue Jul 14 14:22:13 2009
Charted by:	Depth in Feet scaled 1:240

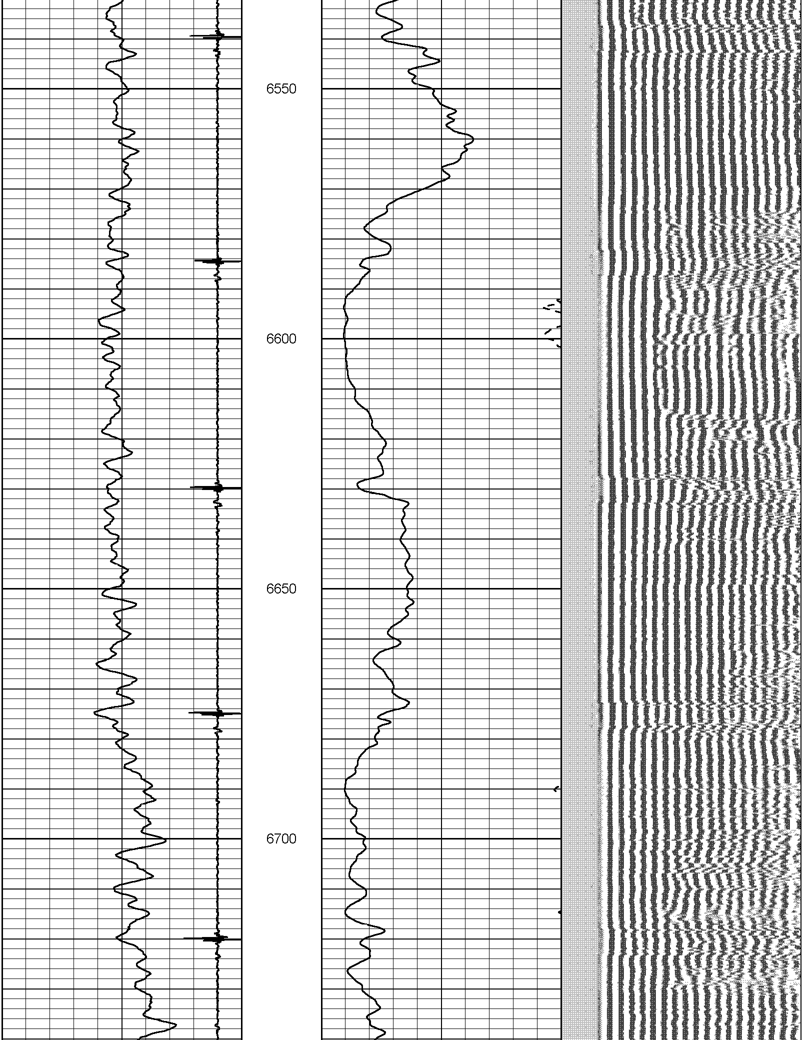


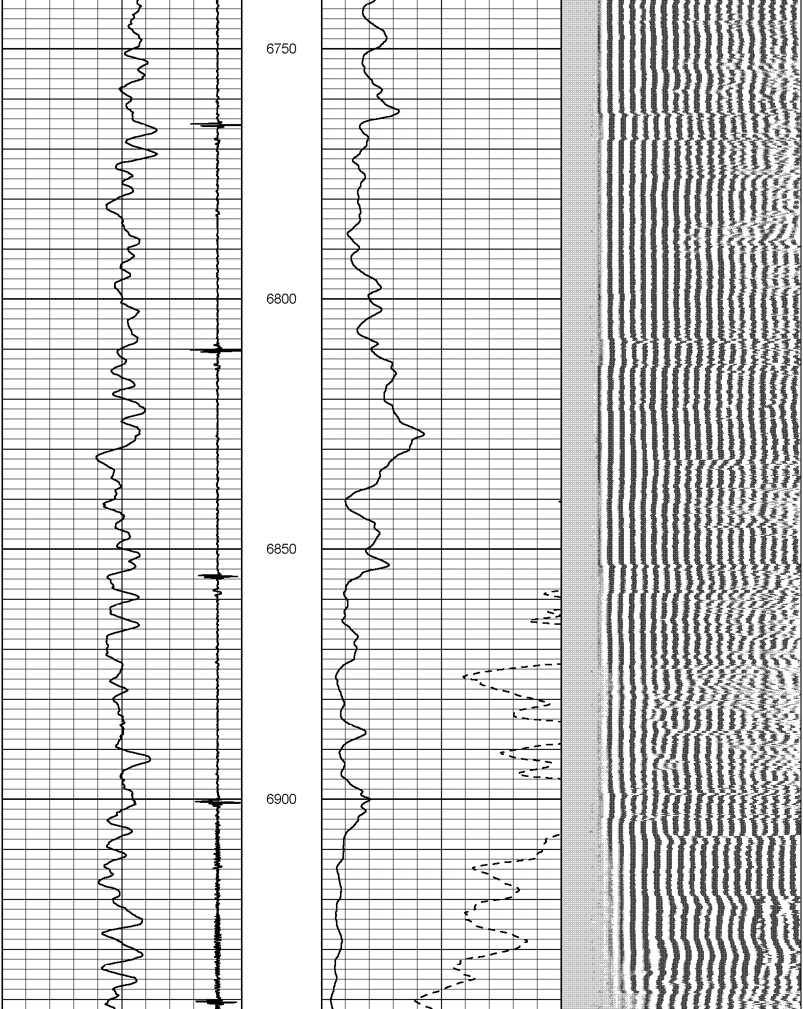


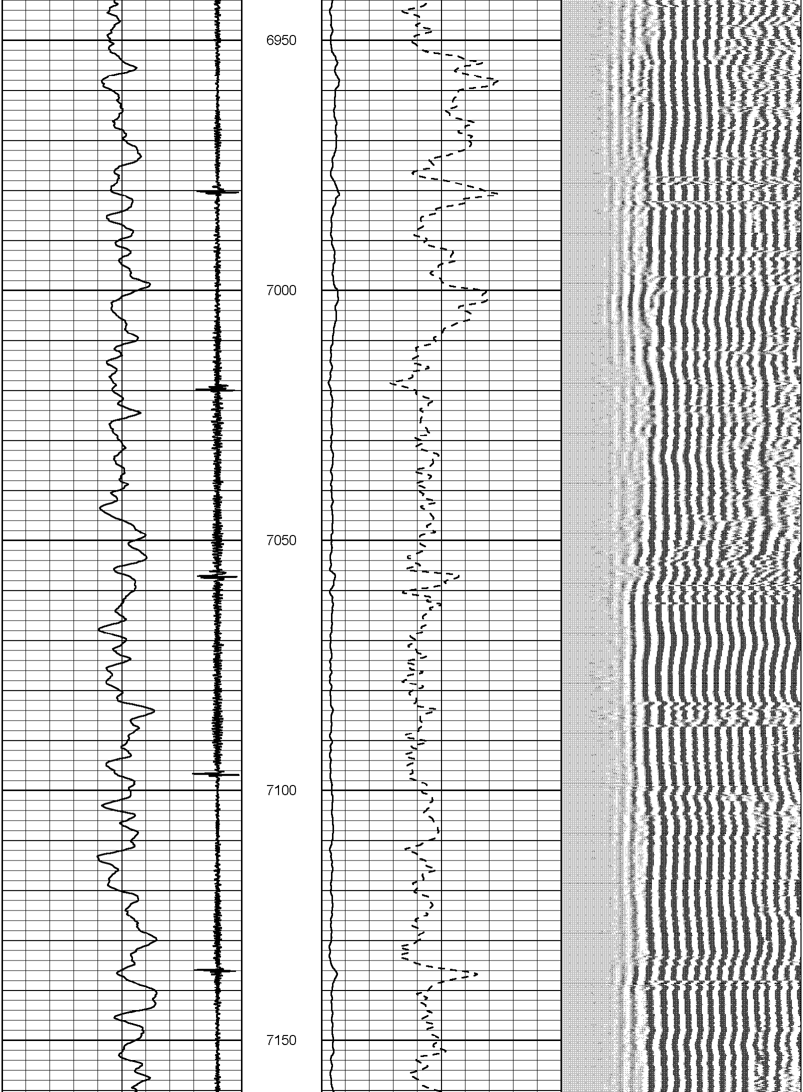


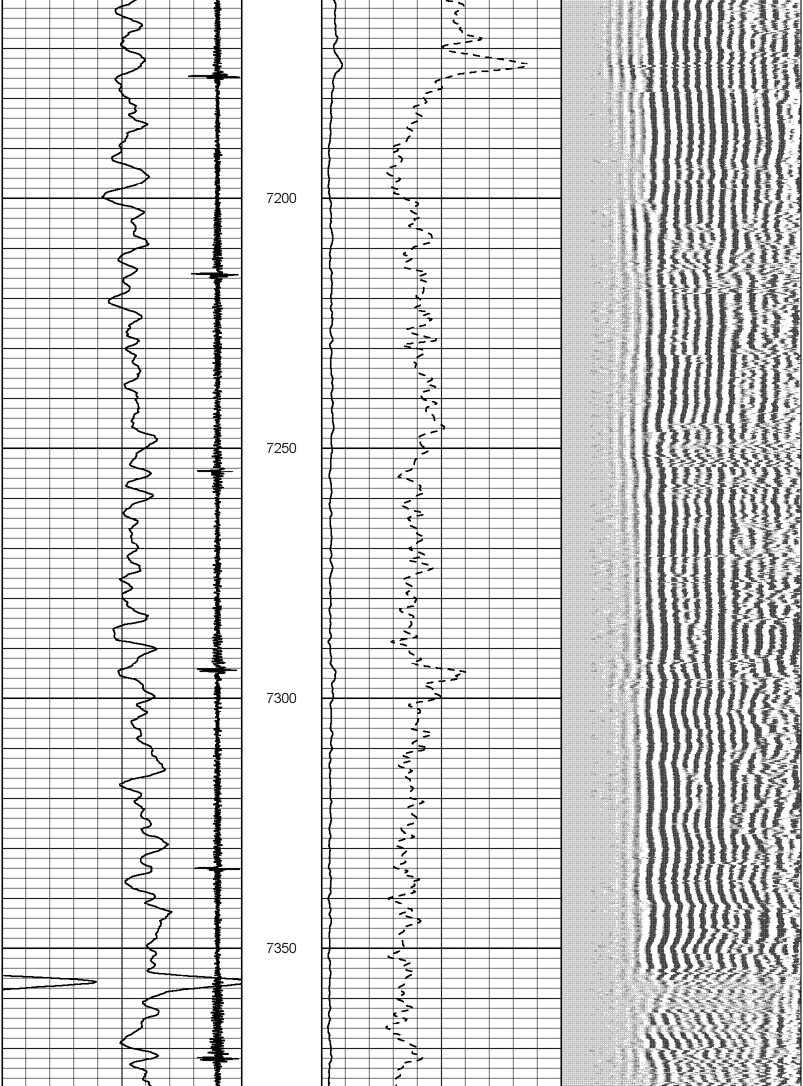


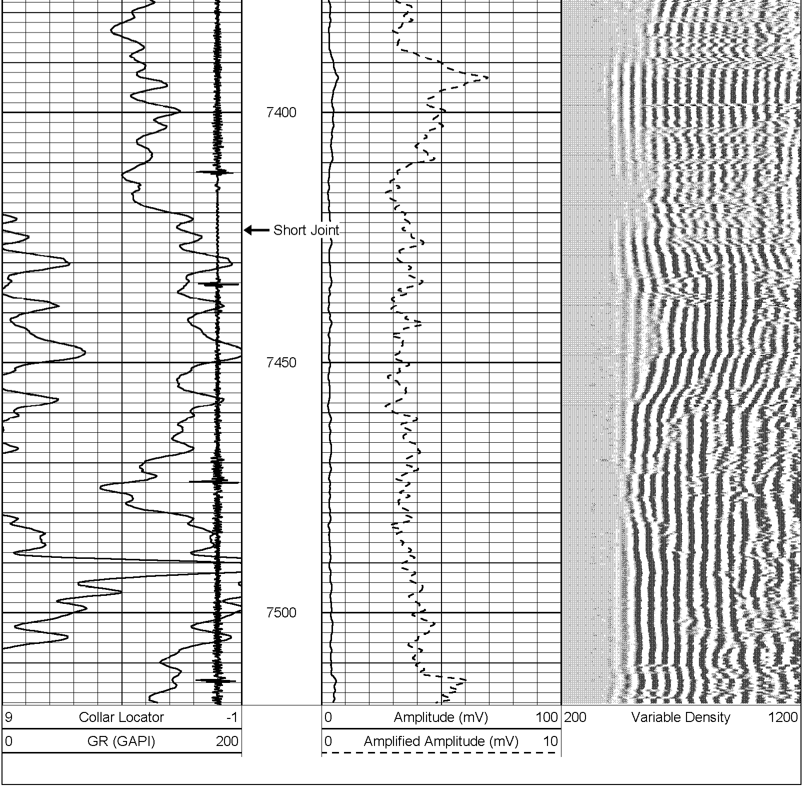






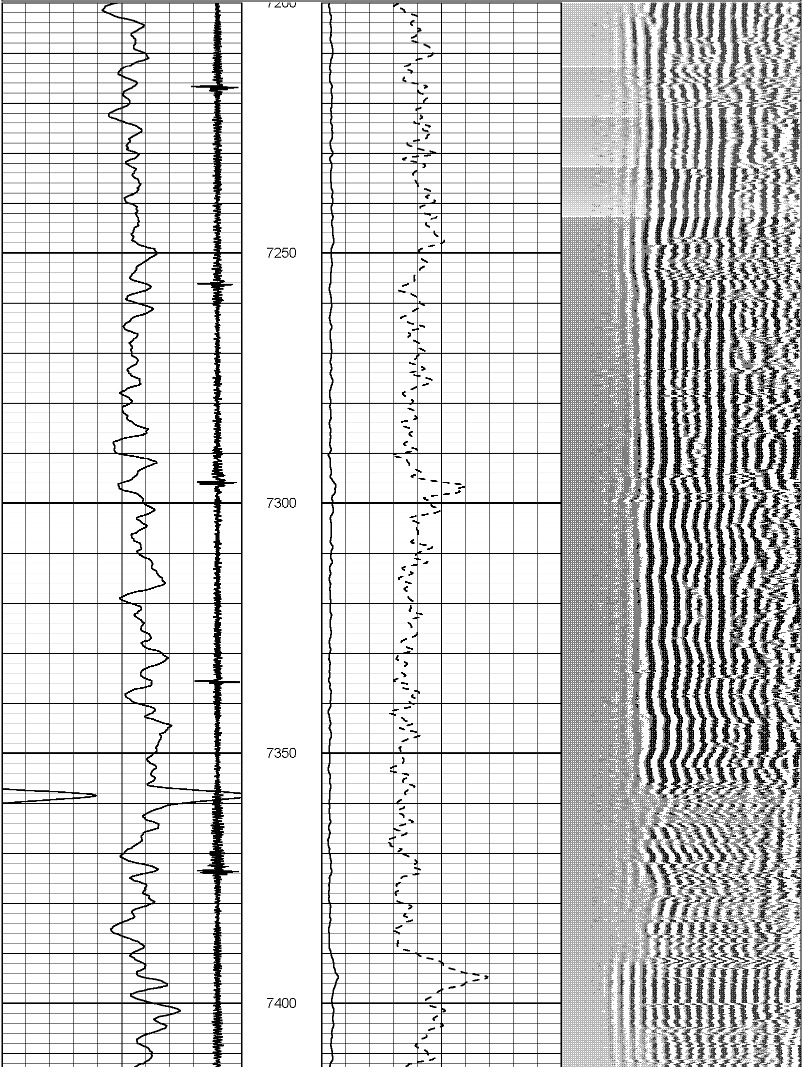


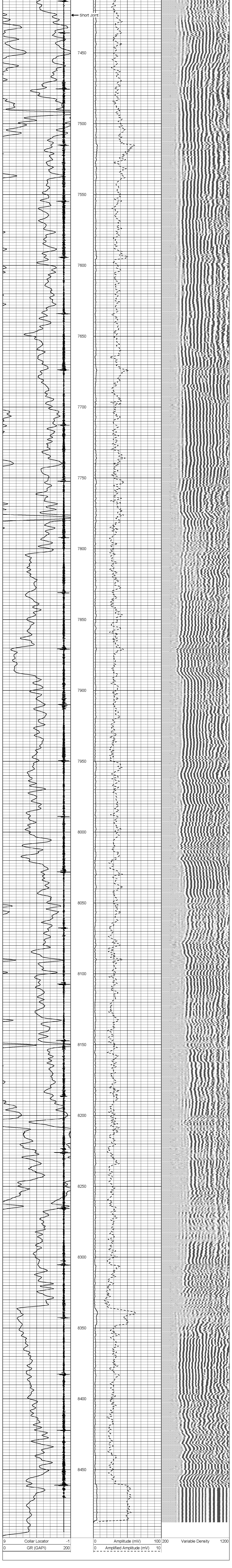




Database File: vessels_minerals13-19.db
Dataset Pathname: pass5
Presentation Format: mikecbl1
Dataset Creation: Tue Jul 14 13:12:30 2009 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

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





HALLIBURTON

Sussex Logged Under 1000 PSI

Scale 1:240

Database File: vessels_minerals13-19.db
Dataset Pathname: sussexspli
Presentation Format: mikecbl1
Dataset Creation: Tue Jul 14 14:39:30 2009
Charted by: Depth in Feet scaled 1:240

HALLIBURTON

Sussex Logged Under 1000 PSI

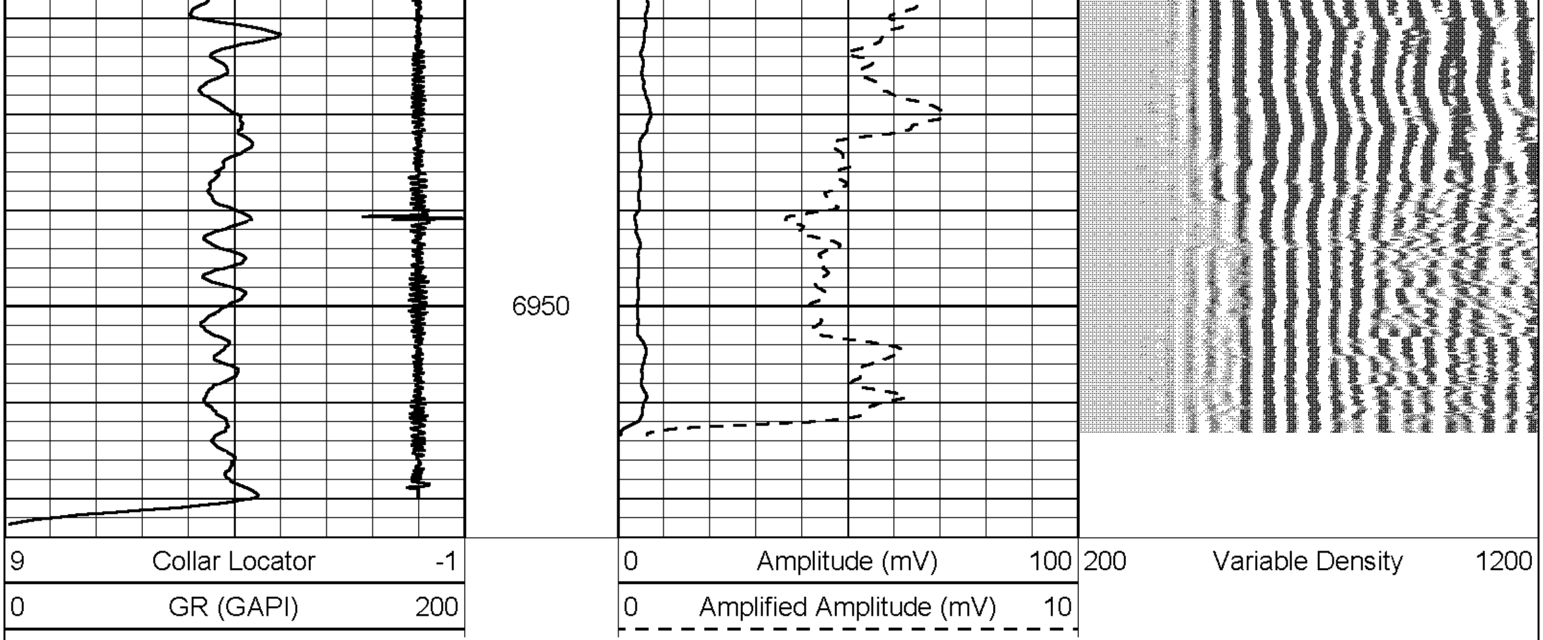
Scale 1:240

HALLIBURTON

Under 1000 PSI

Scale 1:240

Database File: vessels_minerals13-19.db
Dataset Pathname: pass6
Presentation Format: mikecbl1
Dataset Creation: Tue Jul 14 14:05:13 2009 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240



HALLIBURTON

Under 1000 PSI

Scale 1:240

Company	Encana Oil & Gas (USA) Inc		
Well	Vessels Minerals 13-19		
Field	Wattenberg		
County	Weld	State	Colorado

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Cement Bond Log
Gamma Ray, CCL
Scale 1:240