HALLIBURTON

CEMENT BOND LOG

5"=100'

Company ENCANA OIL & GAS USA INC.
Well HELEN 34-23
Field WATTENBERG
County WELD State CO

Company	ENCANA OIL & GAS USA INC.
Well	HELEN 34-23
Field	WATTENBERG
County	WELD
State	CO

API No.: 05-014-20659-00 Serv #: 7719318

Location: SHL: 510' FSL & 1830' FEL SW SE
BHL: 510' FSL & 1830' FEL SW SE

Sec: 23 Twp: 1N Rge: 68W

Other Services

NONE

Permanent Datum GROUND LEVEL Elevation 5149

Log Measured From KB , 12 Ft. above perm. datum

Drilling Measured From KB

Elevation
K.B. 5161
D.F. 5160
G.L. 5149

Date @ Time Logged	21-OCT-2010	Type Fluid in Hole	FRESH WATER
Run No.	ONE	Density of Fluid	8.33
Depth - Driller	8528	Fluid Level	130
Depth - Logger	8497	Cement Top Est. Logged	5353
Bottom - Logged Interval	8484	Equipment / Location	10971660 / BRIGHTON
Top - Log Interval	5100	Recorded by	M. BRECKENFELD
Max. Recorded Temp.	250 F	Witnessed by	TOM FLYNN

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	7.875	SURFACE	TD	4.5	11.6	SURFACE	TD

<<< Fold Here >>>

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

SHORT JOINT LOCATED AT: 7406-7428

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES

YOUR CREW TODAY: J. NORRIS, T. DICAMILLO, B. LAWLEY

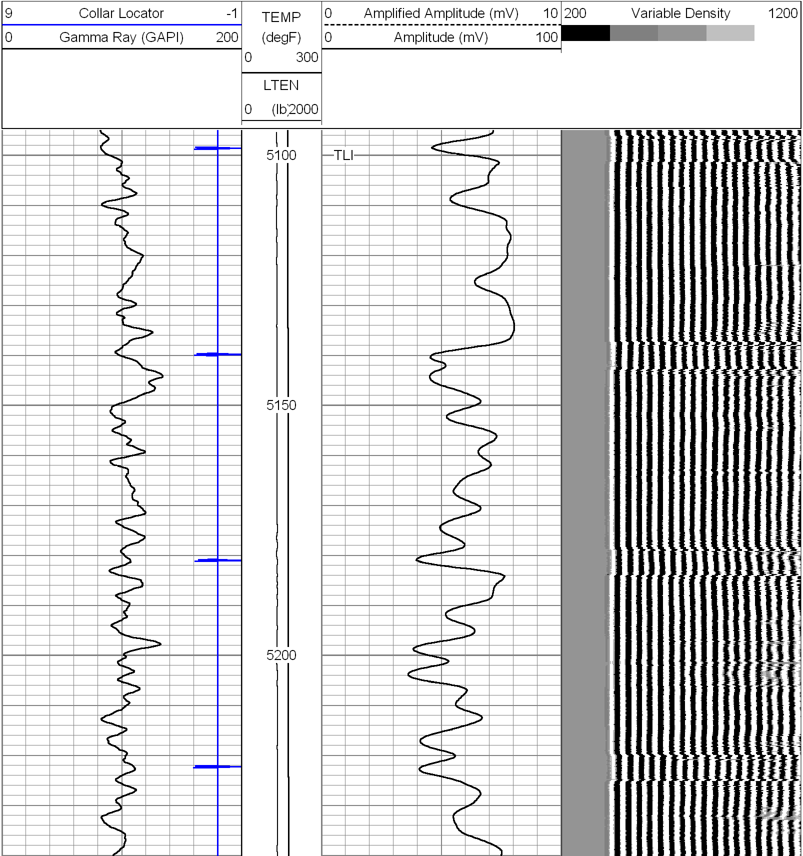
AFE# 09122398

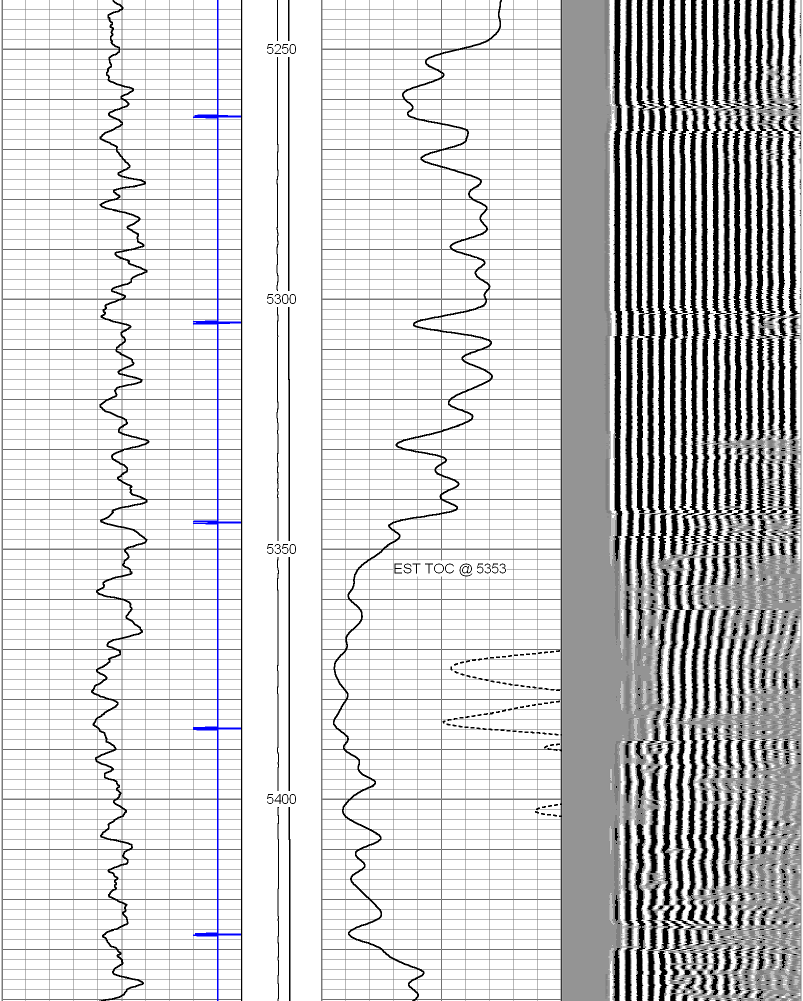
HALLIBURTON

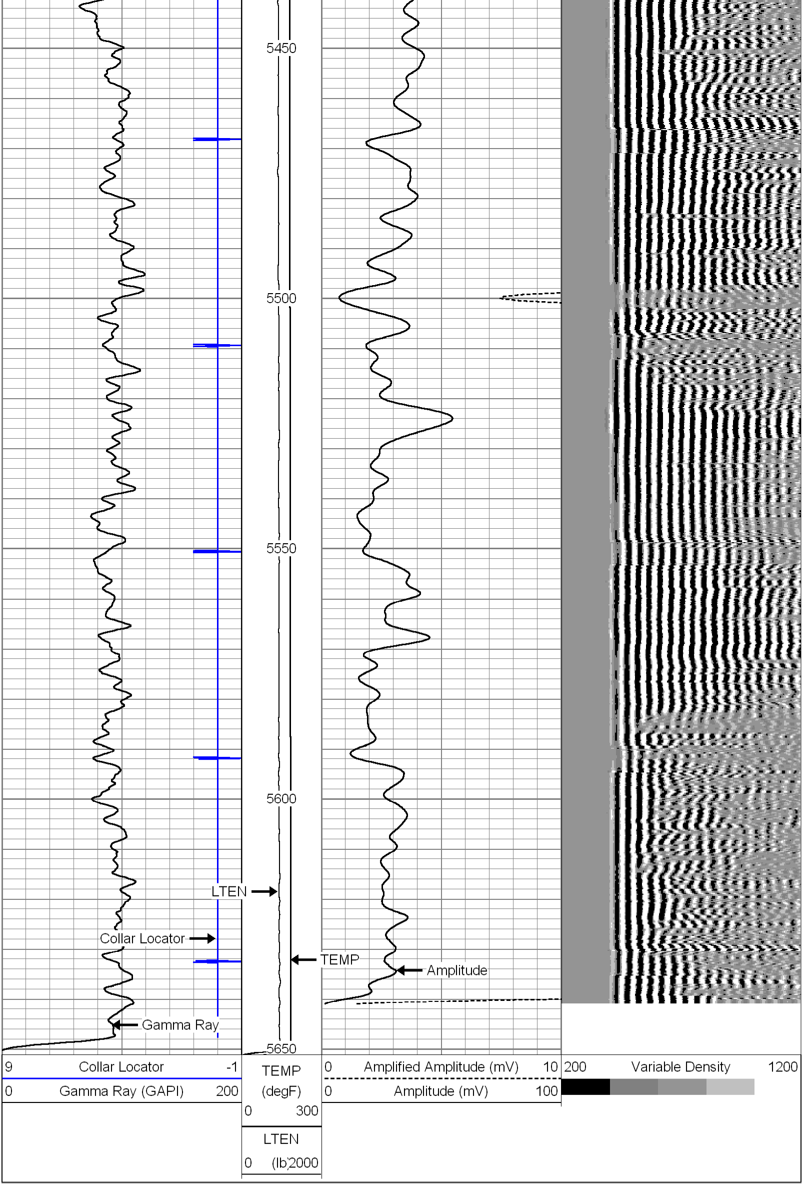
SUSSEX PASS

SCALE: 5"=100'

Database File:	encana_helen34-23_cbl.db
Dataset Pathname:	pass5
Presentation Format:	matt_cbl
Dataset Creation:	Thu Oct 21 13:35:05 2010 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240







HALLIBURTON

SUSSEX PASS

SCALE: 5"=100'

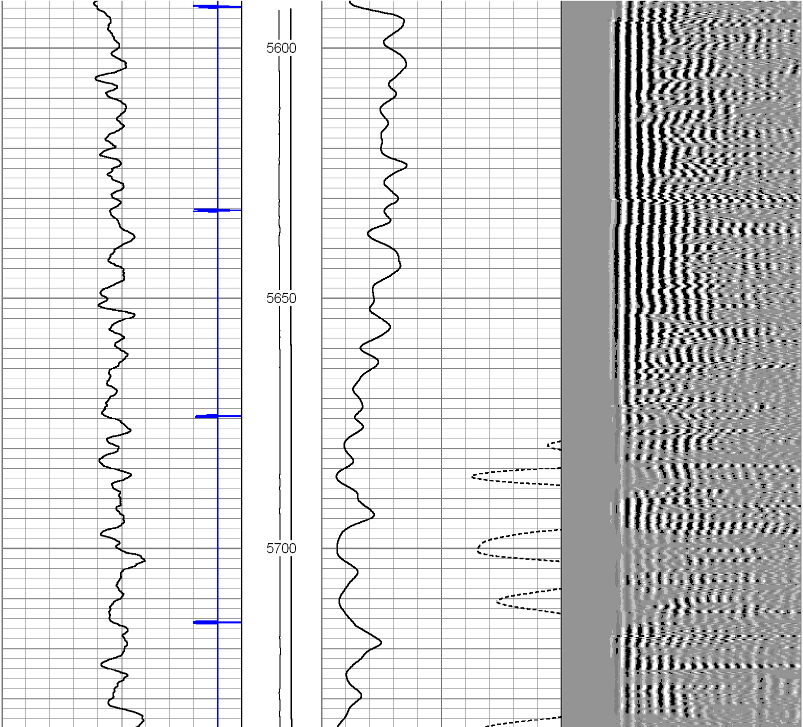
HALLIBURTON

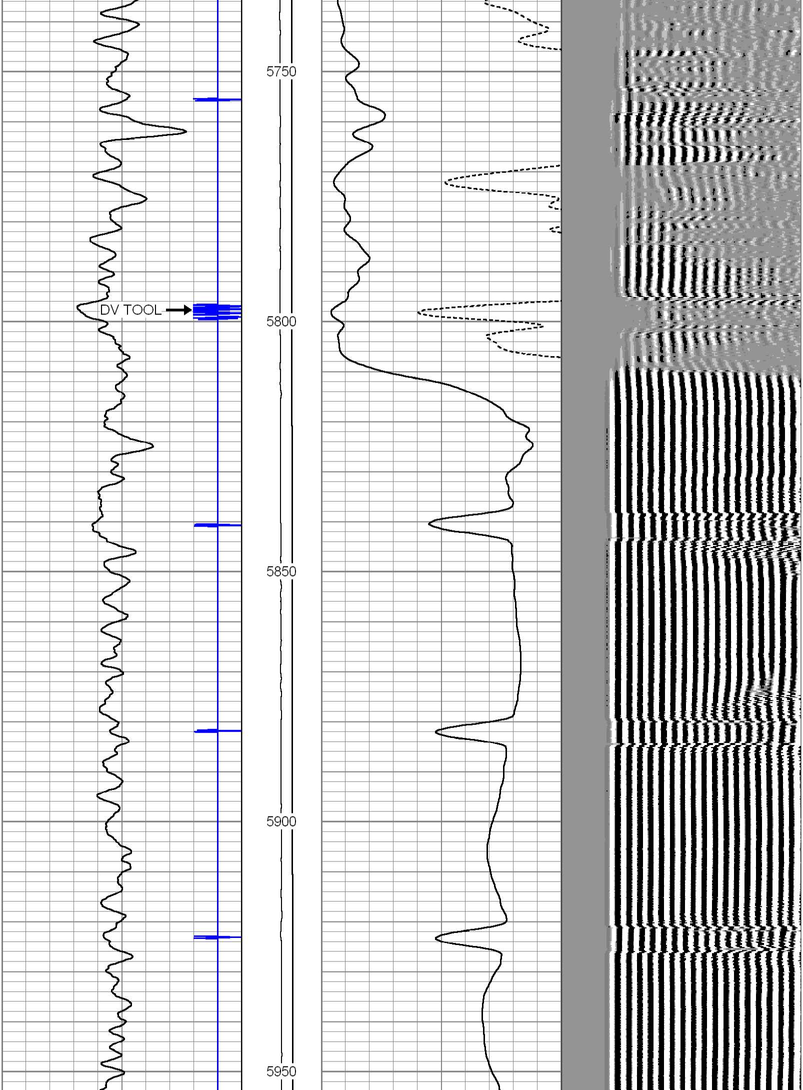
MAIN PASS

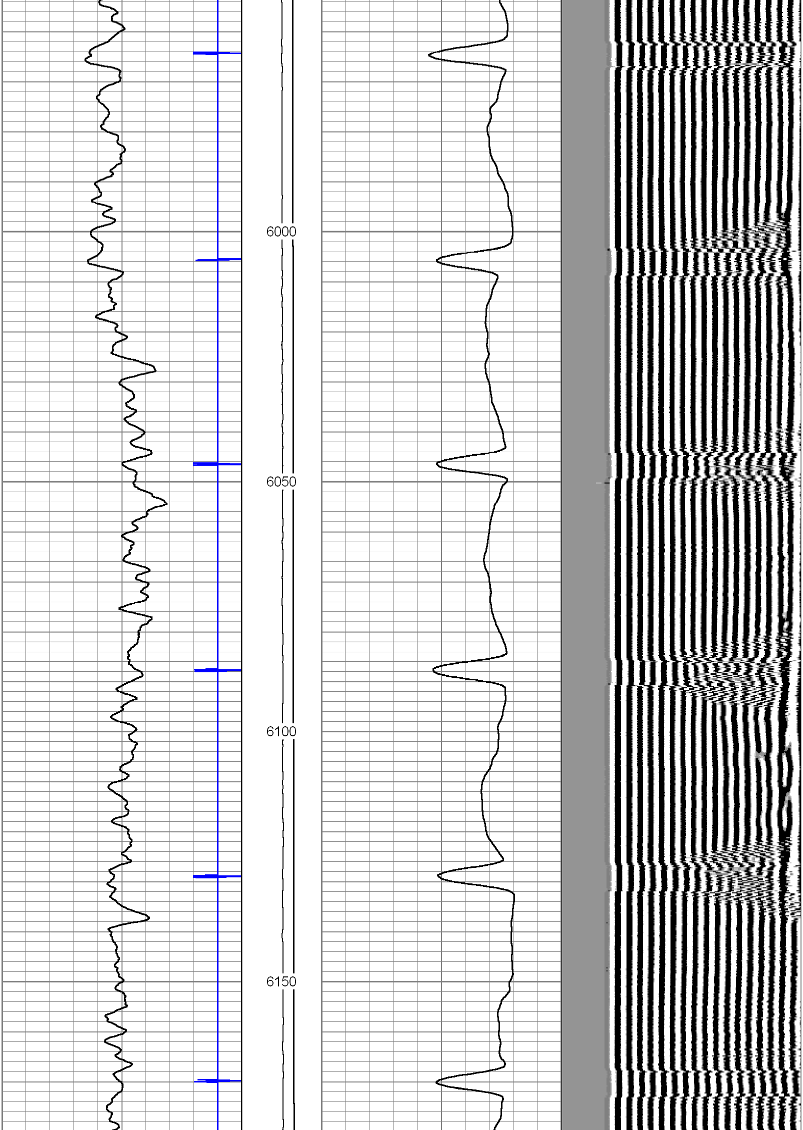
SCALE: 5"=100'

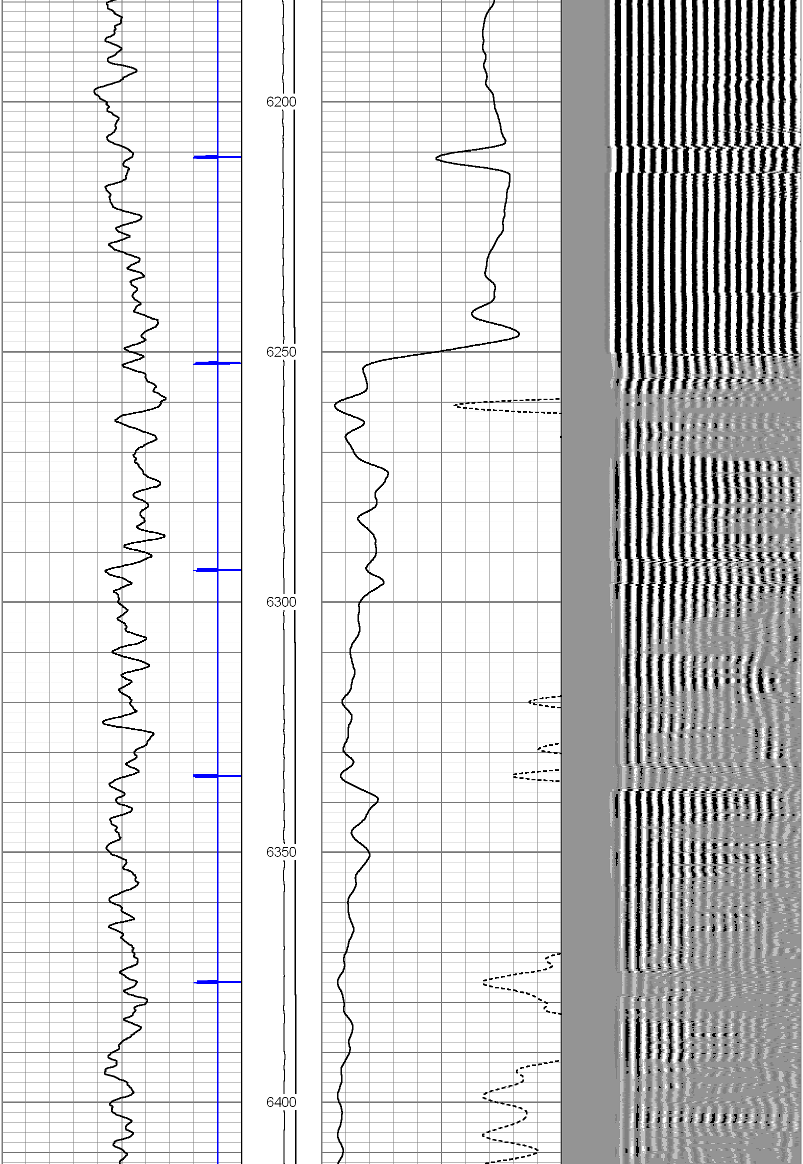
Database File: encana_helen34-23_cbl.db
Dataset Pathname: pass4
Presentation Format: matt_cbl
Dataset Creation: Thu Oct 21 13:05:32 2010 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

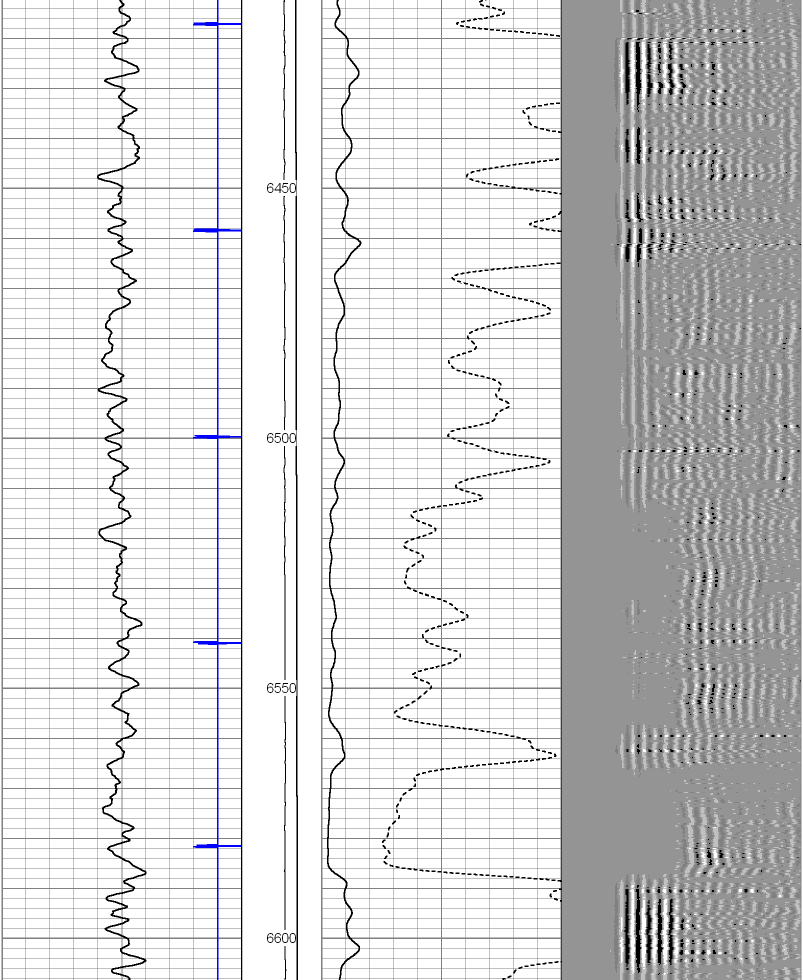
Track 1	Depth track	Track 3	Track 4
9 Collar Locator -1	TEMP (degF)	0 Amplified Amplitude (mV) 10	200 Variable Density 1200
0 Gamma Ray (GAPI) 200	0 300	0 Amplitude (mV) 100	■ ■ ■ ■
	LTEN 0 (lb) 2000		

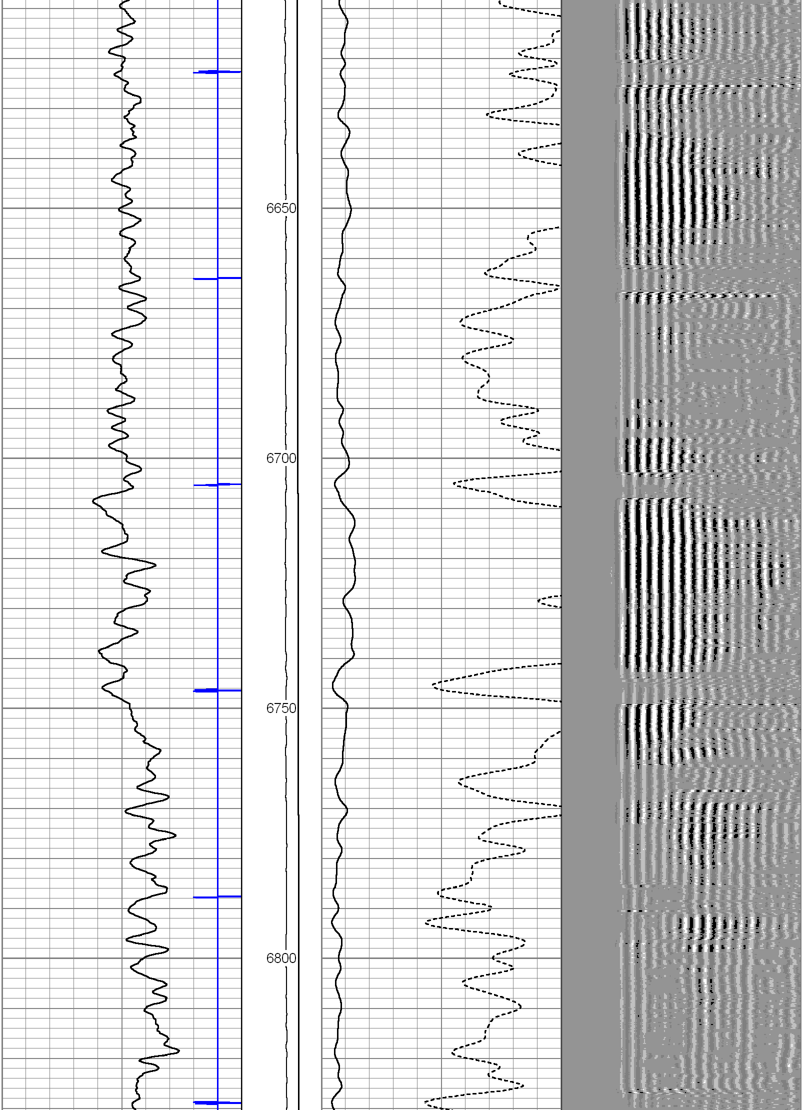


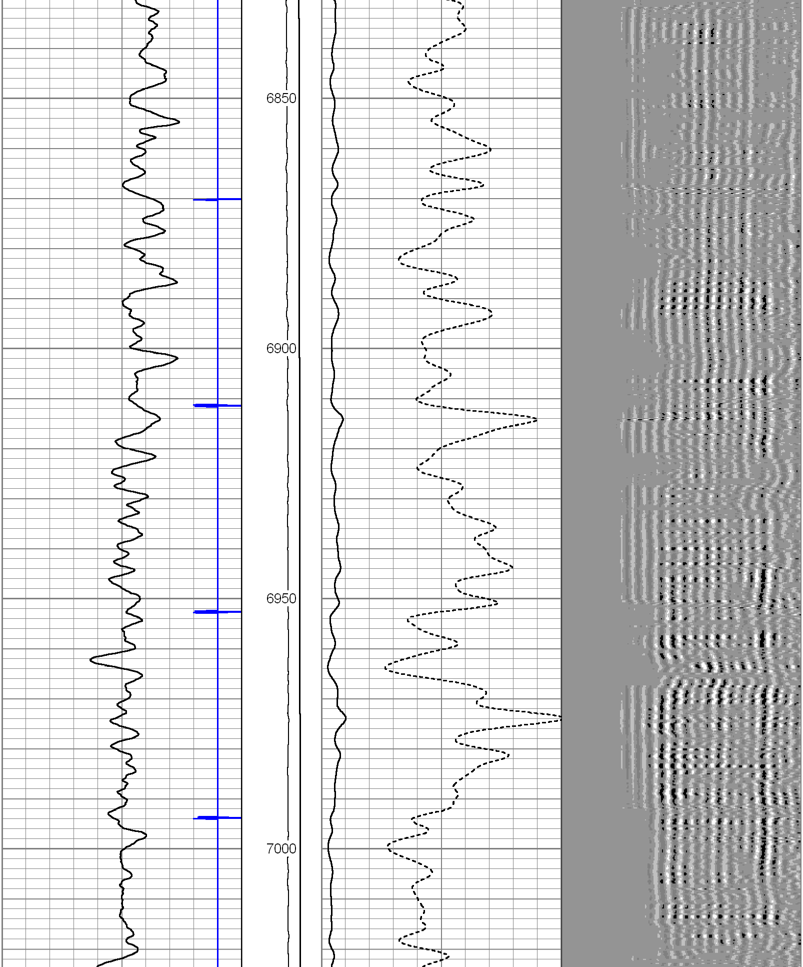


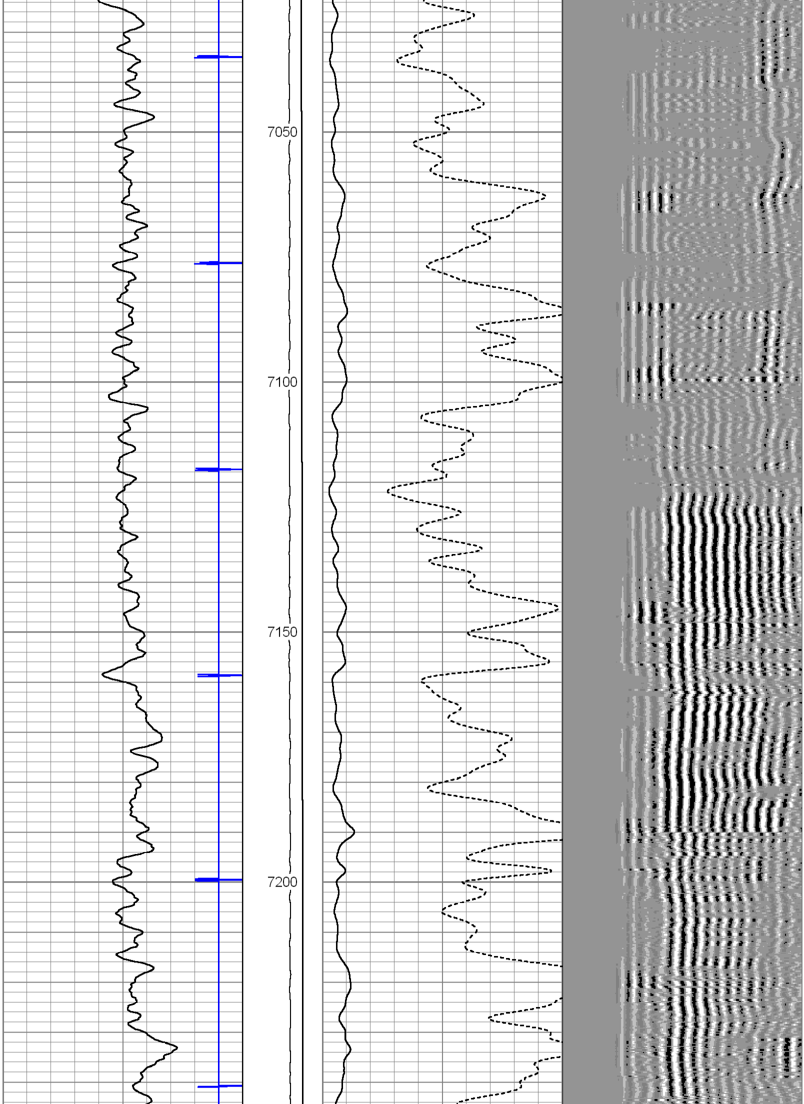


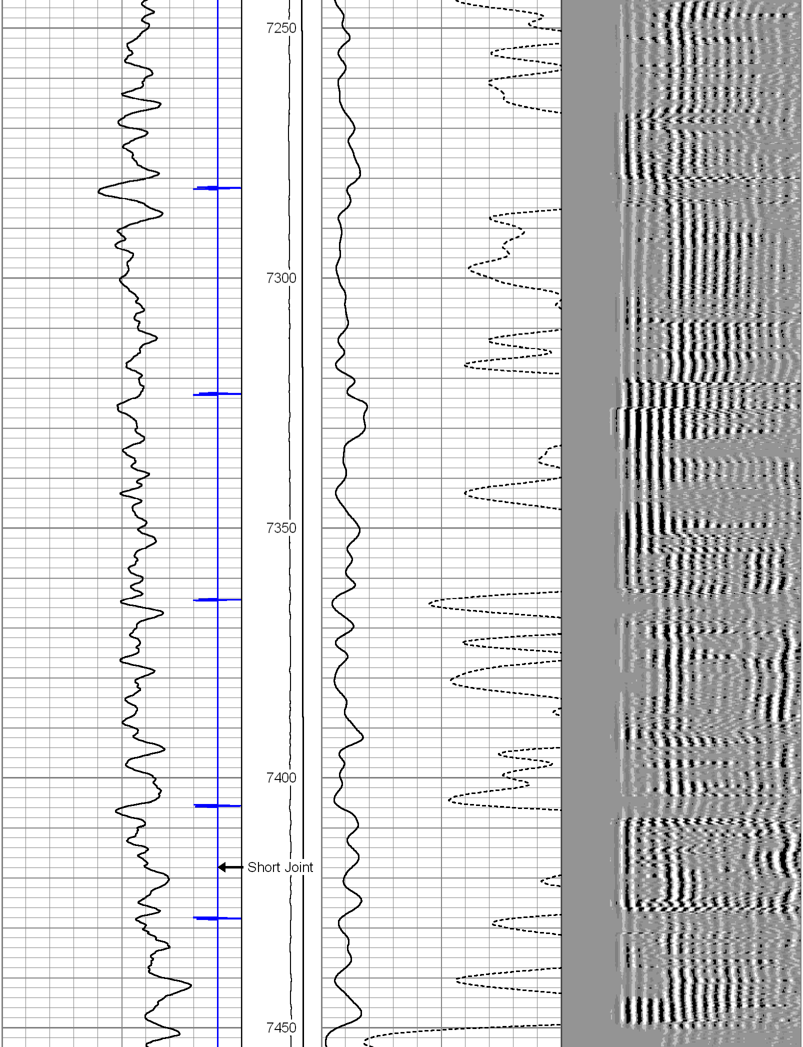


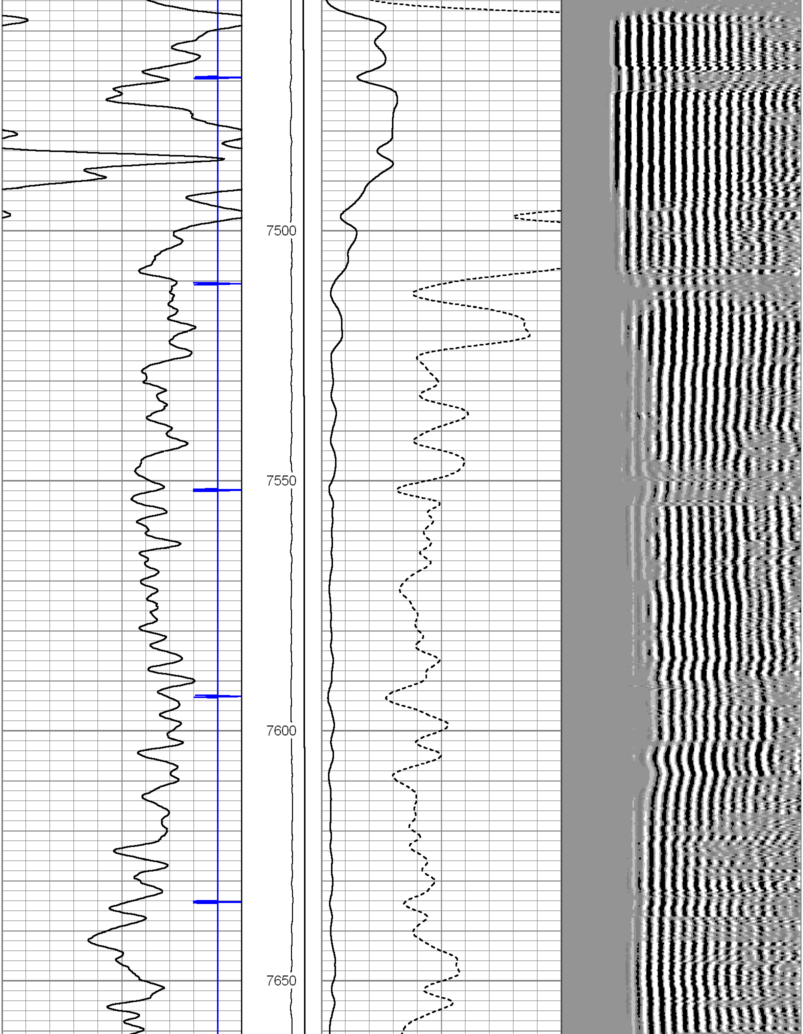


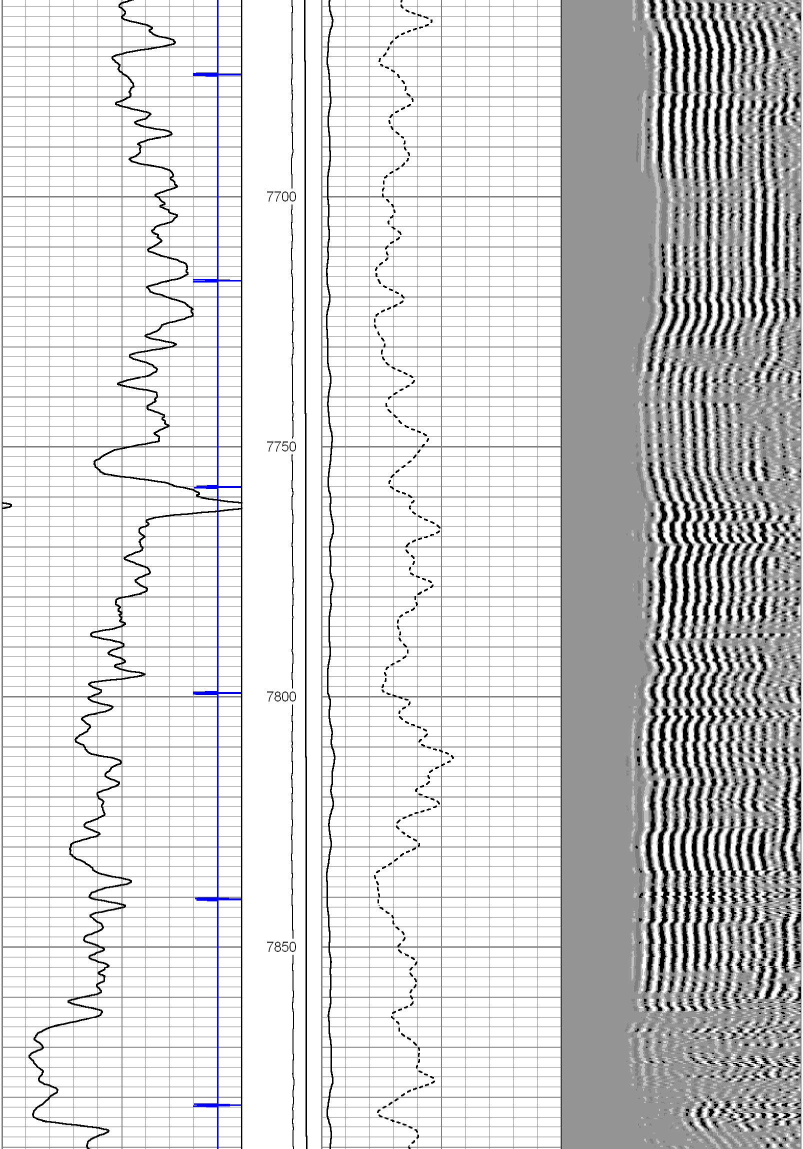


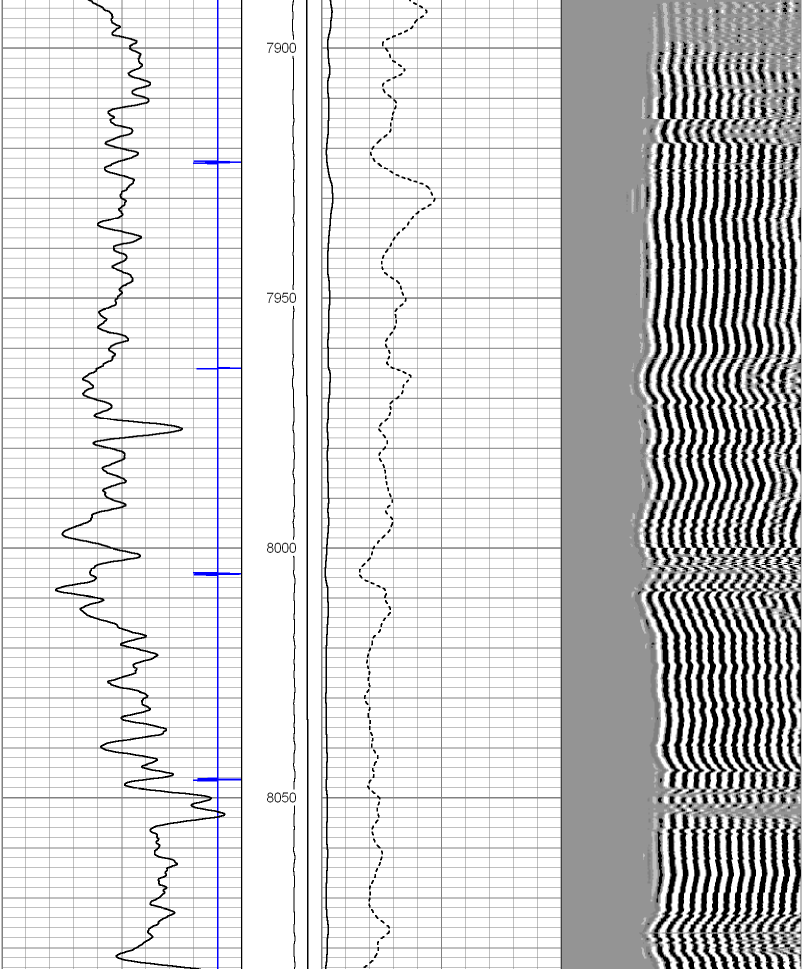


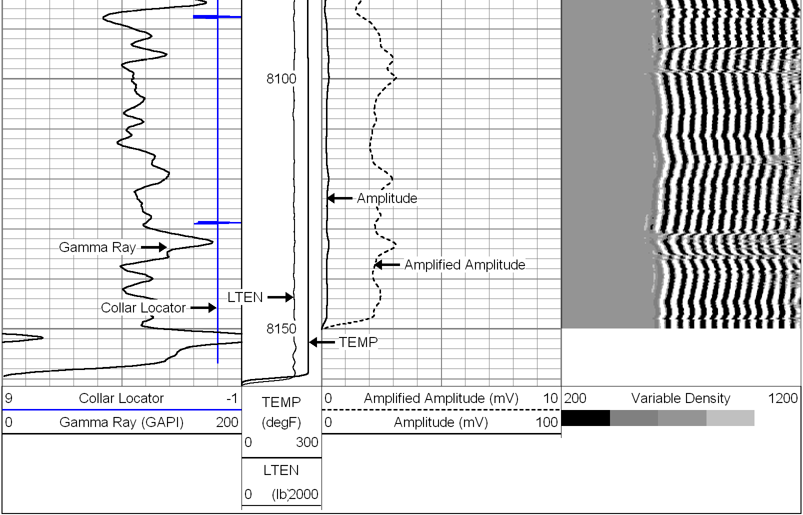












HALLIBURTON

MAIN PASS

SCALE: 5"=100'

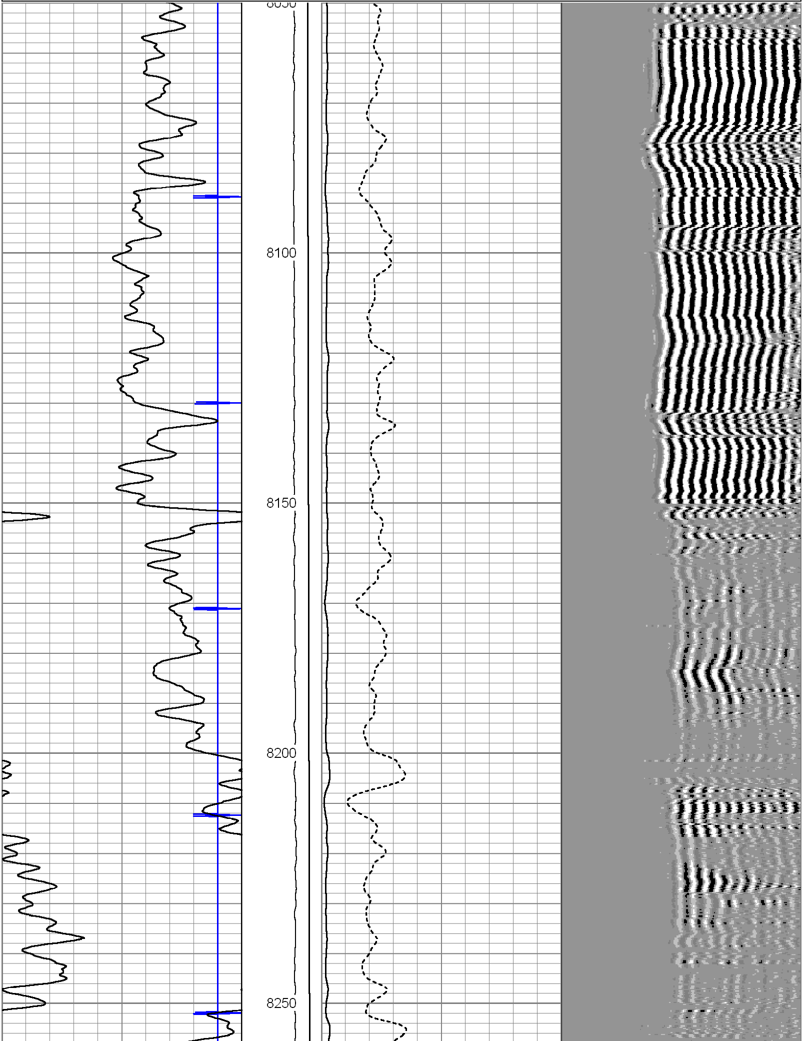
HALLIBURTON

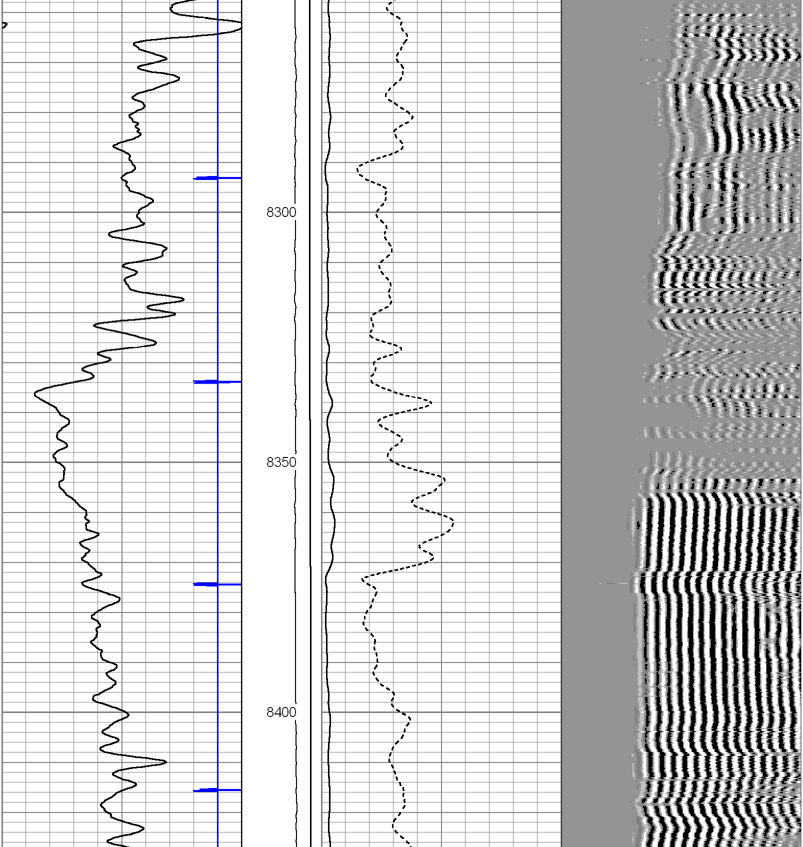
J-SAND PASS

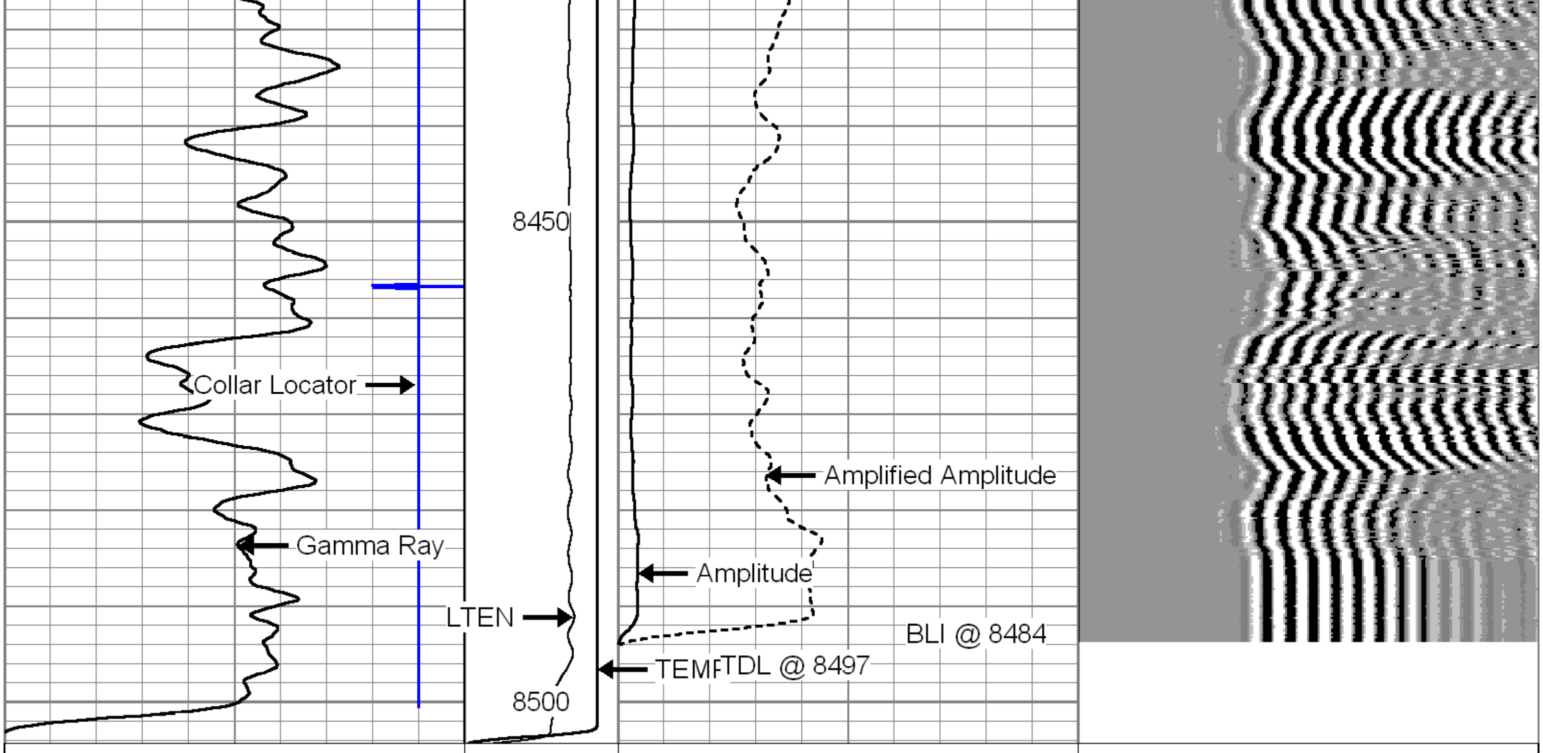
SCALE: 5"=100'

Database File:	encana_helen34-23_cbl.db
Dataset Pathname:	pass3
Presentation Format:	matt_cbl
Dataset Creation:	Thu Oct 21 12:55:46 2010 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

9 Collar Locator -1 0 Gamma Ray (GAPI) 200	TEMP (degF) 0 300 LTEN 0 (lb) 2000	0 Amplified Amplitude (mV) 10 0 Amplitude (mV) 100	200 Variable Density 1200







9	Collar Locator	-1	TEMP (degF)	0	Amplified Amplitude (mV)	10	200 Variable Density	1200
0	Gamma Ray (GAPI)	200	0 300	0	Amplitude (mV)	100	■ ▩ ▨ ░	
			LTEN 0 (lb) 2000					

HALLIBURTON

J-SAND PASS

SCALE: 5"=100'

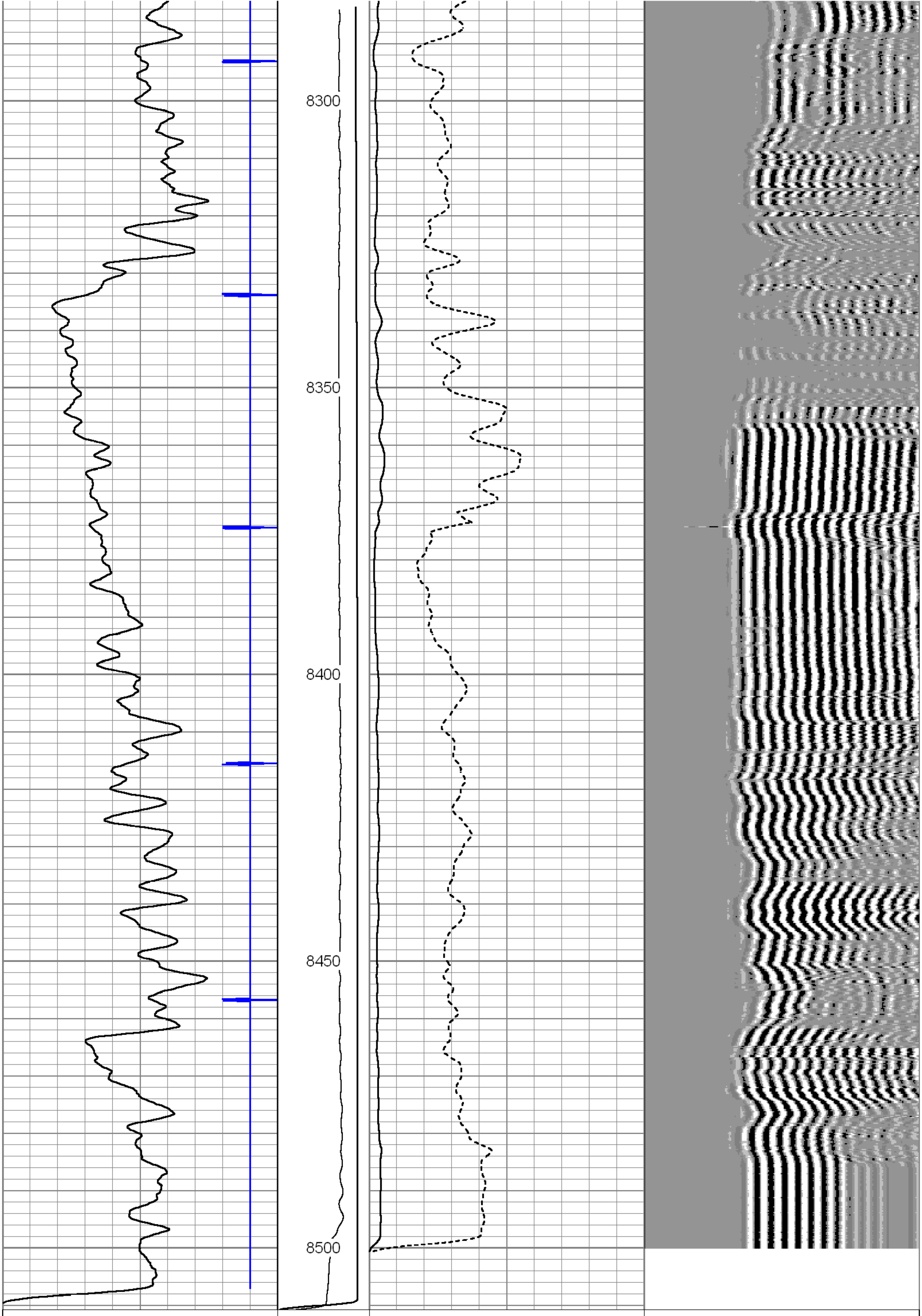
HALLIBURTON

REPEAT PASS

SCALE: 5"=100'

Database File:	encana_helen34-23_cbl.db
Dataset Pathname:	pass2
Presentation Format:	matt_cbl
Dataset Creation:	Thu Oct 21 12:46:46 2010 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

9	Collar Locator	-1	TEMP (degF)	0	Amplified Amplitude (mV)	10	200 Variable Density	1200
0	Gamma Ray (GAPI)	200	0 300	0	Amplitude (mV)	100	■ ▩ ▨ ░	
			LTEN 0 (lb) 2000					



9	Collar Locator	-1	TEMP (degF)	0	Amplified Amplitude (mV)	10	200 Variable Density	1200
0	Gamma Ray (GAPI)	200	0 300	0	Amplitude (mV)	100	■ ▩ ▨ ░	
			LTEN 0 (lb) 2000					

HALLIBURTON

REPEAT PASS

SCALE: 5"=100'

Company	ENCANA OIL & GAS USA INC.
Well	HELEN 34-23
Field	WATTENBERG
County	WELD
State	CO

HALLIBURTON

CEMENT BOND
LOG
5"=100'