HALLIBURTON

Cement Bond Log
Gamma Ray
CCL

Scale 1:240

Company Encana Oil & Gas (USA) Inc
Well Shaffer Newman 0-6-13
Field Wattenberg
County Weld State Colorado

Company	Encana Oil & Gas (USA) Inc		
Well	Shaffer Newman 0-6-13		
Field	Wattenberg		
County	Weld	State	Colorado

API No.: 050130658800 Serv #:
Location:

Sec: Twp: Rge:

Other Services
None

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

Date @ Time Logged	24-Apr-09	Type Fluid in Hole	Water
Run No.	One	Density of Fluid	8.4
Depth - Driller	NA	Fluid Level	Surface
Depth - Logger	8506	Cement Top Est. Logged	6950
Bottom - Logged Interval	8504	Equipment / Location	10842980 / Brighton
Top - Log Interval	6700	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			240 Sacks	
Cement Type / Weight	/	/	1.69 Y / 13.5 PPG	/
Formulation				
Mud Type / Mud Wgt.	/	/	/	/

Borehole Record				Casing & Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To
One				N-80 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

Thank you for choosing Halliburton!

Your Crew Today: Michael Snyder, Jake Walker, Greg Lueck

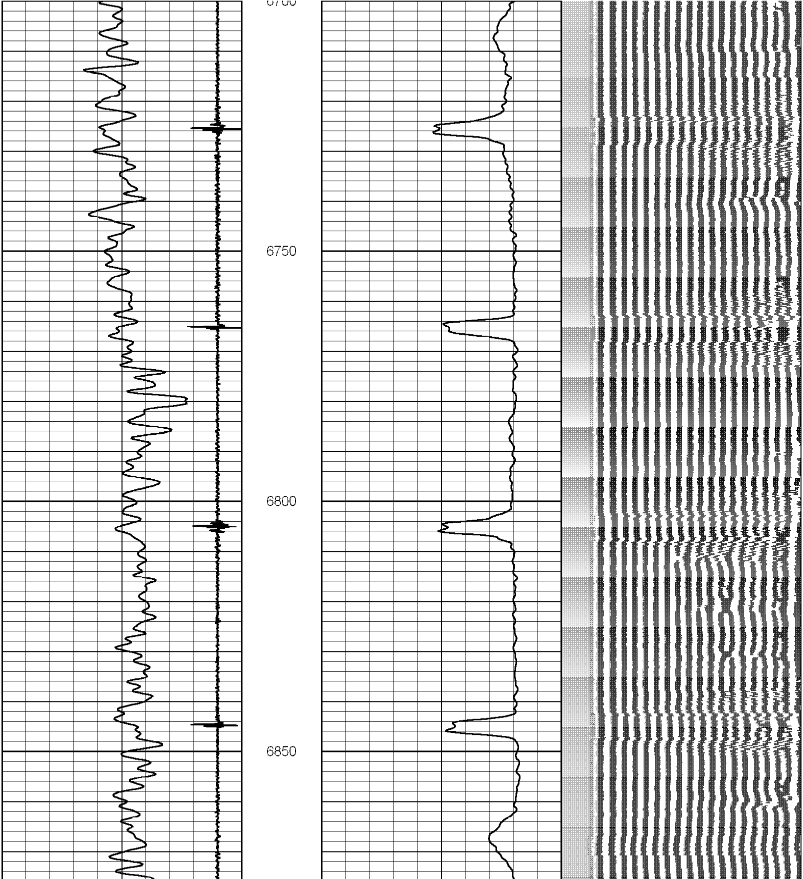
HALLIBURTON

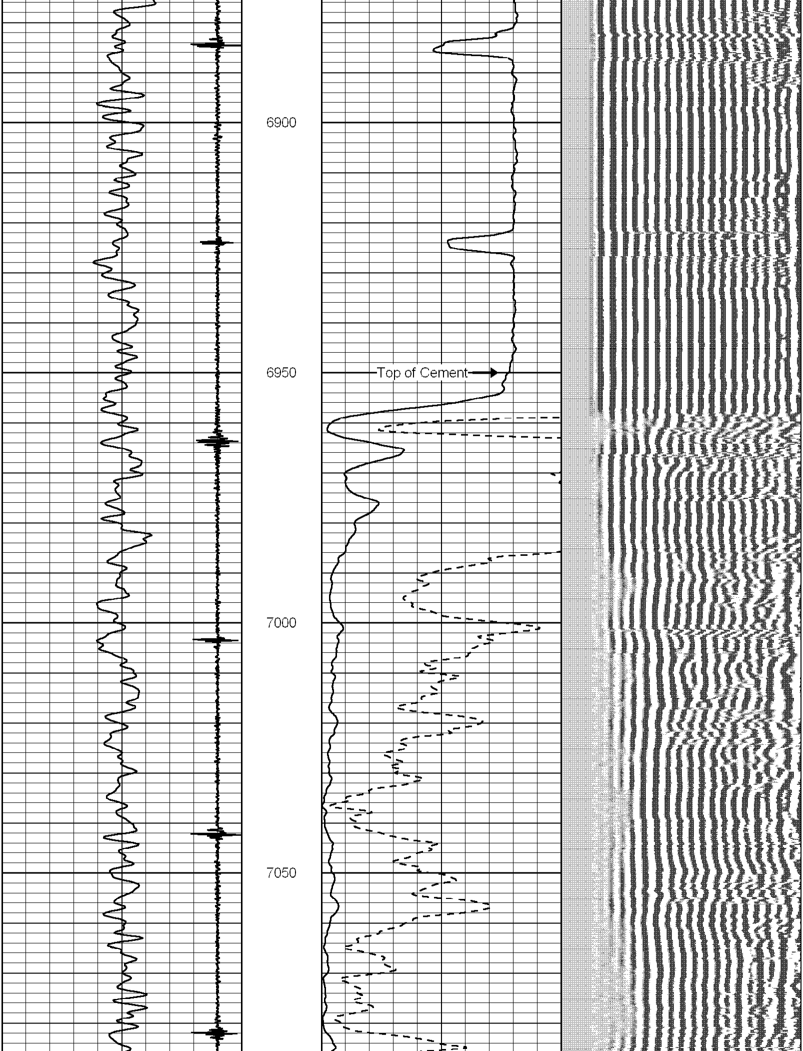
Main Pass

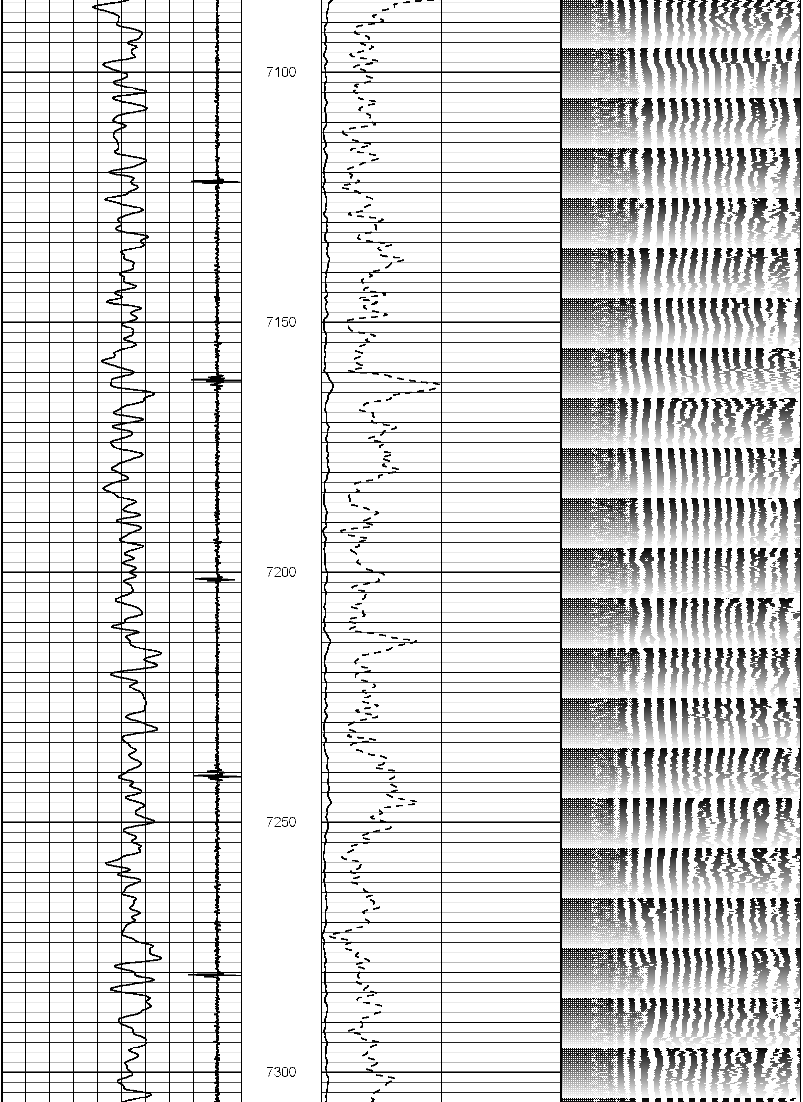
Scale 1:240

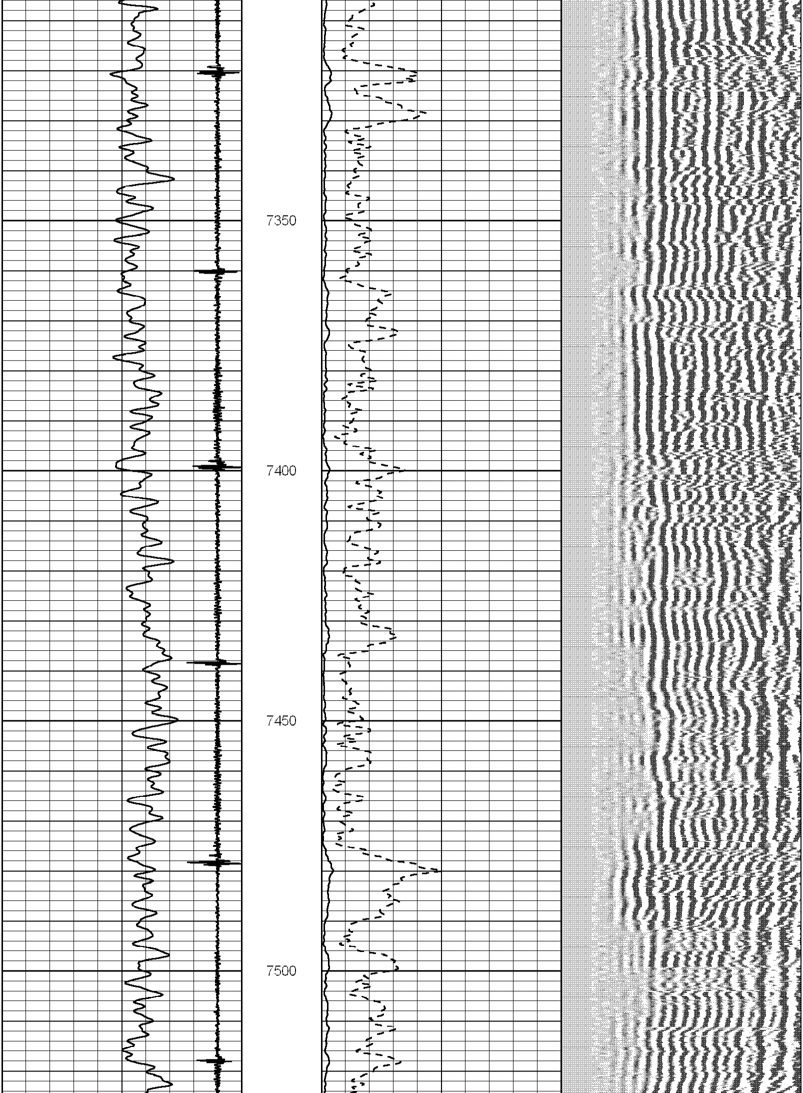
Database File:	encana_shaffer_newman0-6-13.db
Dataset Pathname:	pass16
Presentation Format:	mikecbl
Dataset Creation:	Fri Apr 24 15:12:45 2009 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

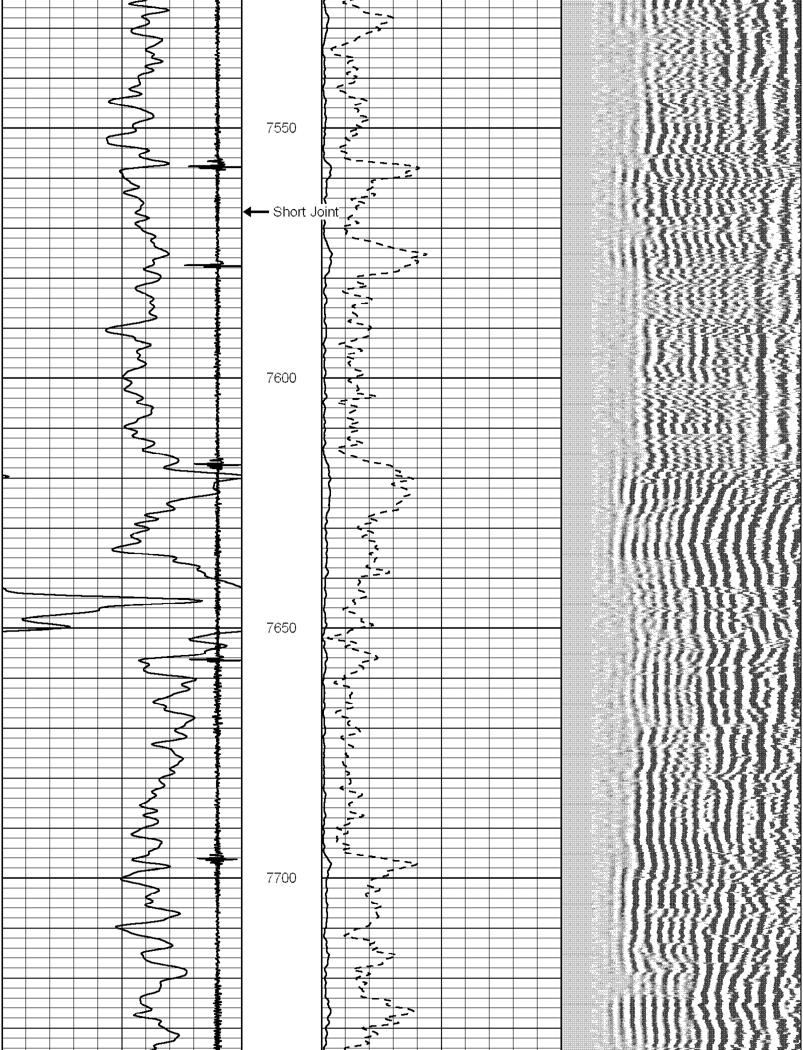
9	Collar Locator	-1
0	GR (GAPI)	300
0	Amplitude (mV)	100
0	Amplified Amplitude (mV)	10
200	Variable Density	1200

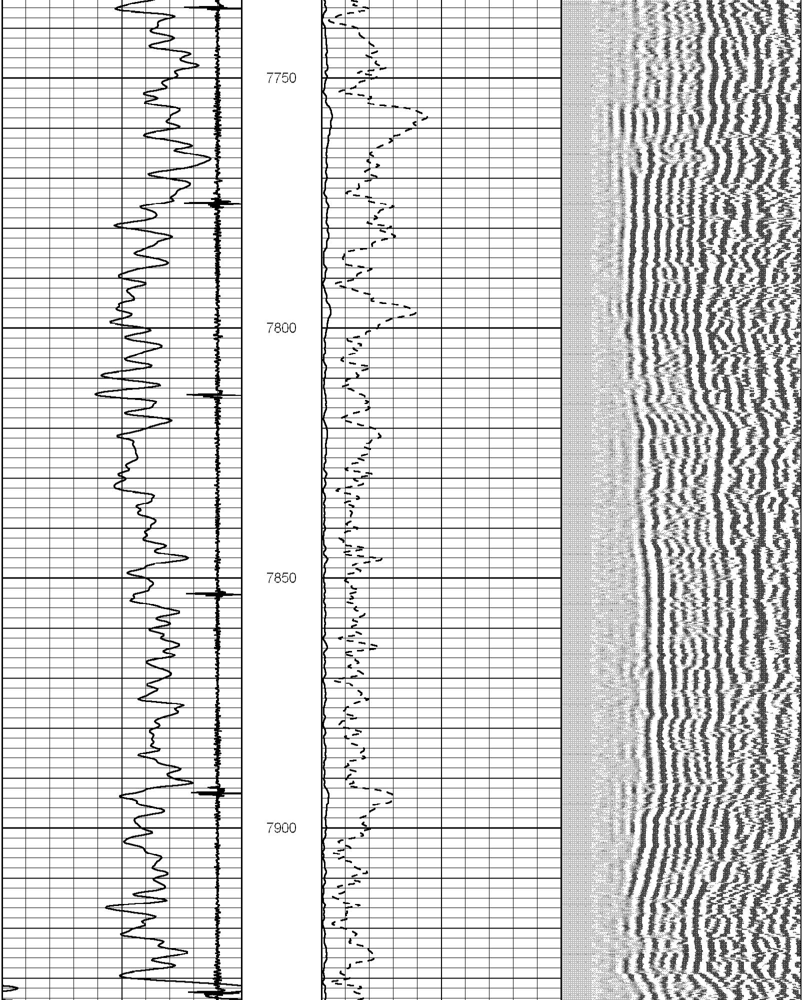


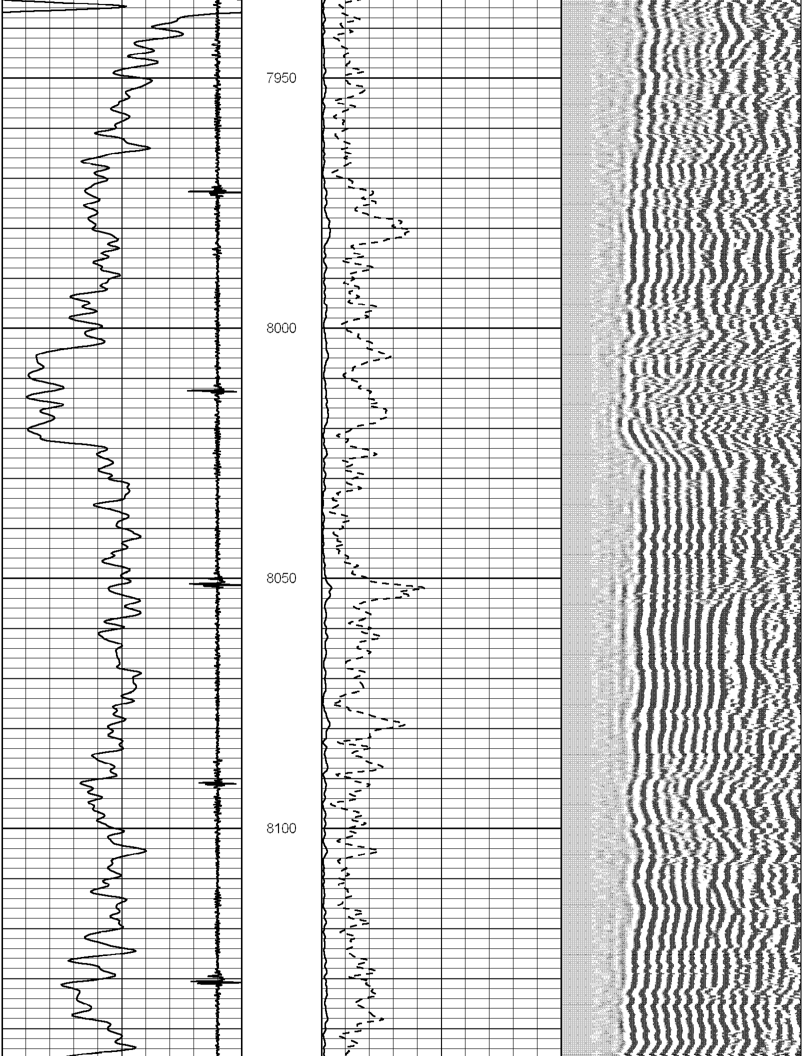


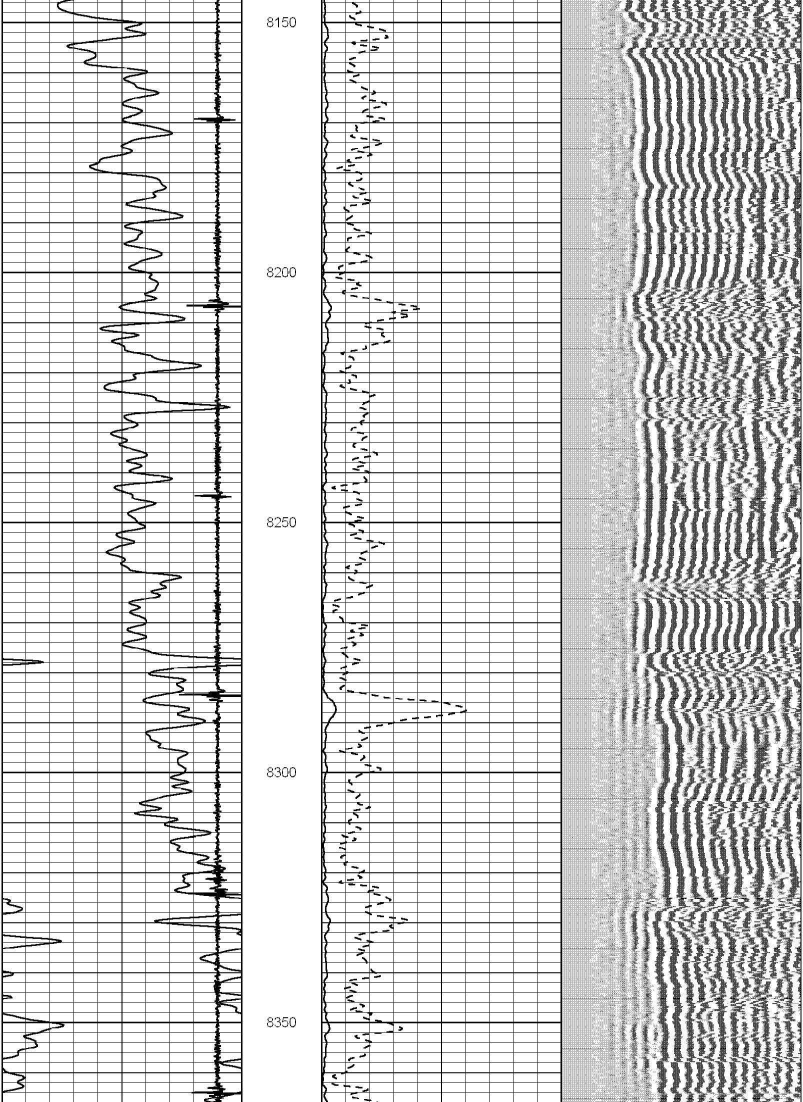


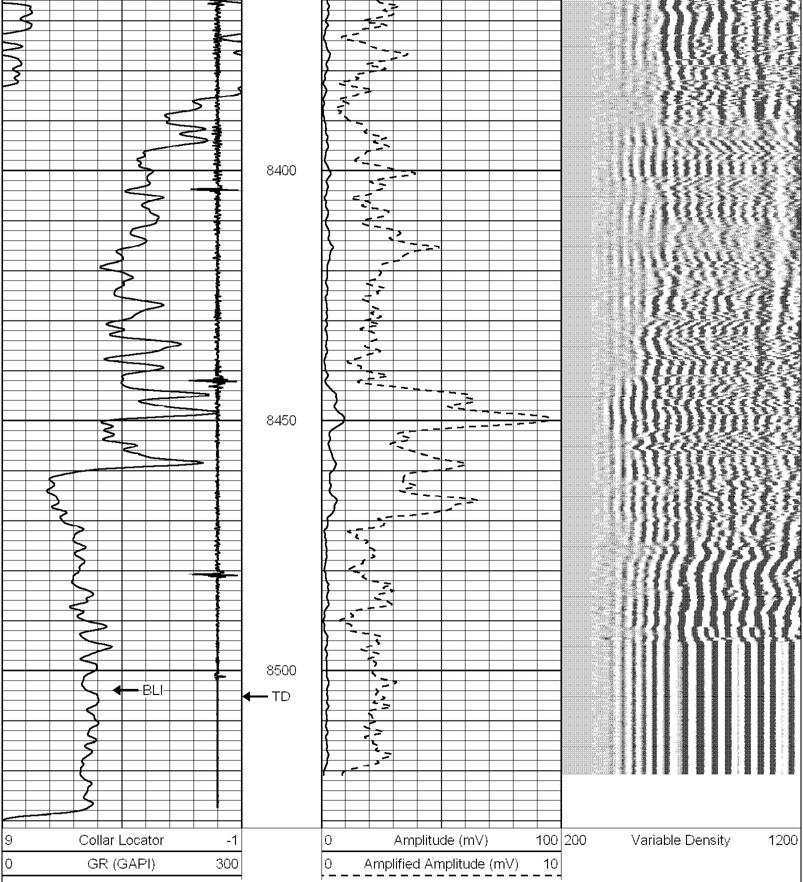












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Main Pass

Scale 1:240

Log Variables

Database:C:\Warrior\Data\encana_shaffer_newman0-6-13.db
Dataset: field/well/run1/pass16

Top - Bottom

PPT	CASEWGHT	MAXAMPL	MINAMPL	MINATTN	CASEOD	PERFS	TDEPTH
usec	lb/ft	mV	mV	db/ft	in		ft
0	11.5	81.196	0	0.8	4.5	0	0

BOTTEMP	BOREID
degF	in
100	7.875

Calibration Report

Database File:	encana_shaffer_newman0-6-13.db
Dataset Pathname:	pass16
Dataset Creation:	Fri Apr 24 15:12:45 2009 by Log Halliburton Casedho

Gamma Ray Calibration Report

Type / Serial: probe275dig / pr050806

	Counts/Sec.	Gain	Offset	Jig	Units
SHOP CALIBRATION	Tue Jun 17 11:06:25 2008				
Background	116.4				cps
Calibrator	481.8				cps
		1.3000			GAPI/cps
PRIMARY VERIFICATION	Fri May 18 10:14:11 2007				
Background	77.7				cps
Calibrator	320.3				cps
Difference				242.6	GAPI
BEFORE SURVEY VERIFICATION	Fri May 18 10:17:30 2007				
Background	76.6				cps
Calibrator	320.4				cps
Difference				243.9	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 Apr 24 15:02:02 2009	
Depth:	6617.127	ft
Casing Diameter:	4.500	in
	3' Spacing	
Signal Zero:	1.500	mV
Calibrated Amplitude:	81.196	mV
Reading at Signal Zero:	0.009	V
Reading in Free Pipe:	1.149	V
Gain:	69.885	
Offset:	0.875	

Temperature Calibration Report

Serial Number: 040201
Tool Model: PRB275_Dig
Performed: Sat Oct 27 12:52:34 2007

	Reference		Reading	
Low Reference:	0.00	degF	0.00	cps
High Reference:	1.00	degF	1.00	cps

Gain: 0.10
Offset: 0.00
Delta Spacing 1

Company	Encana Oil & Gas (USA) Inc		
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County	Weld	State	Colorado

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Scale 1:240