Cement Bond Log

Company	EnCana Oil & Gas Inc,
Well	Edith Ann 6-8-21
Field	Wattenberg
County	Weld State Colorado

Company EnCana Oil & Gas Inc,
Well Edith Ann 6-8-21
Field Wattenberg
County Weld State Colorado
API No.: 05-123-31527-0000 Serv #:
Location: SESE SHL: 485' FSL & 566' FEL
SWSE BHL: 50' FSL & 1500' FEL
Other Services: None
Sec:21 Twp:2N Rge: 68W

Permanent Datum	GL	Elevation 4931'	Elevation	K.B. 4944" D.F. 4943' G.L. 4931'
Log Measured From	KB . 13' Ft. above perm. datum			
Drilling Measured From	KB			

Date @ Time Logged	13-Sept-2010	Type Fluid in Hole	Fresh Water
Run No.	One	Density of Fluid	8.33
Depth - Driller	8275'	Fluid Level	Surface
Depth - Logger	8239'	Cement Top Est. Logged	4520'
Bottom - Logged Interval	8236'	Equipment / Location	10971660 / Brighton
Top - Log Interval	4200'	Recorded by	Matt Baldwin
Max. Recorded Temp.	NA	Witnessed by	Gary Cummings

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Primary / Squeeze				
Date / Time Cemented				
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	TD	SURFACE

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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

This log is correlated to PSI's Neutron log dated 24-Aug-2010

Thank you for choosing Halliburton!

Your crew today was: Matt Baldwin, Jason Morrison & Chad Nakagawa

AFE# 09129492

Calibration Report

Database File: encana_edith_ann_6_8_21_cbl.db
Dataset Pathname: pass16
Dataset Creation: Mon Sep 13 12:18:33 2010 by Log Halliburton Casedho

Temperature Calibration Report

Serial Number: 0001
Tool Model: 1.375TEMP
Performed: Fri Jul 05 03:18:21 1996

	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

Gamma Ray Calibration Report

Type / Serial: Probe / 070355

SHOP CALIBRATION Mon Sep 13 06:49:33 2010

	Counts/Sec.	Gain	Offset	Jig	Units
Background	55.7				cps
Calibrator	224.2				cps
		1.5669			GAPI/cps

PRIMARY VERIFICATION Mon Sep 13 06:51:43 2010

Background	83.3		cps
Calibrator	347.8		cps
Difference		264.5	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

Cement Bond Log Calibration Report

Serial Number: 070321
Tool Model: Probe
Performed: Mon Sep 13 08:38:12 2010

Depth: 4538.59 ft
Casing Diameter: 4.5 in

	3' Spacing	5' Spacing	
Signal Zero:	0	0	mV
Calibrated Amplitude:	81.1961	81.1961	mV
Reading at Signal Zero:	-0.000805664	0.00236816	V
Reading in Free Pipe:	1.92603	1.94553	V
Gain:	42.1397	41.7855	
Offset:	0.0339504	-0.0989549	

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SUSSEX PASS

SCALE: 5"=100'

Database File: encana_edith_ann_6_8_21_cbl.db
Dataset Pathname: pass16
Presentation Format: jj_cbl
Dataset Creation: Mon Sep 13 12:18:33 2010 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

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SUSSEX PASS

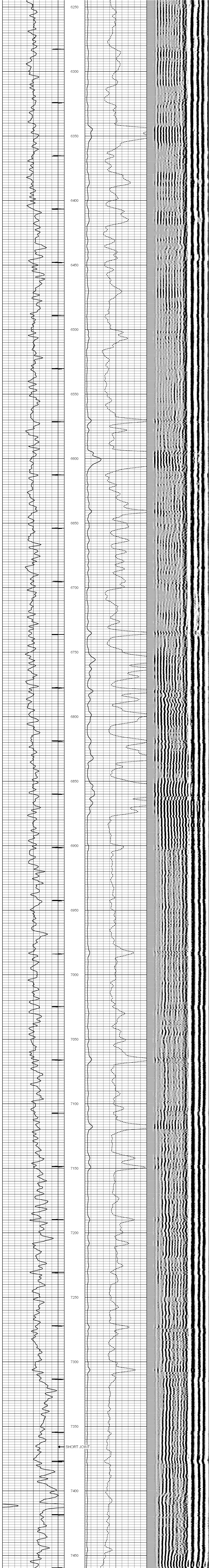
SCALE: 5"=100'

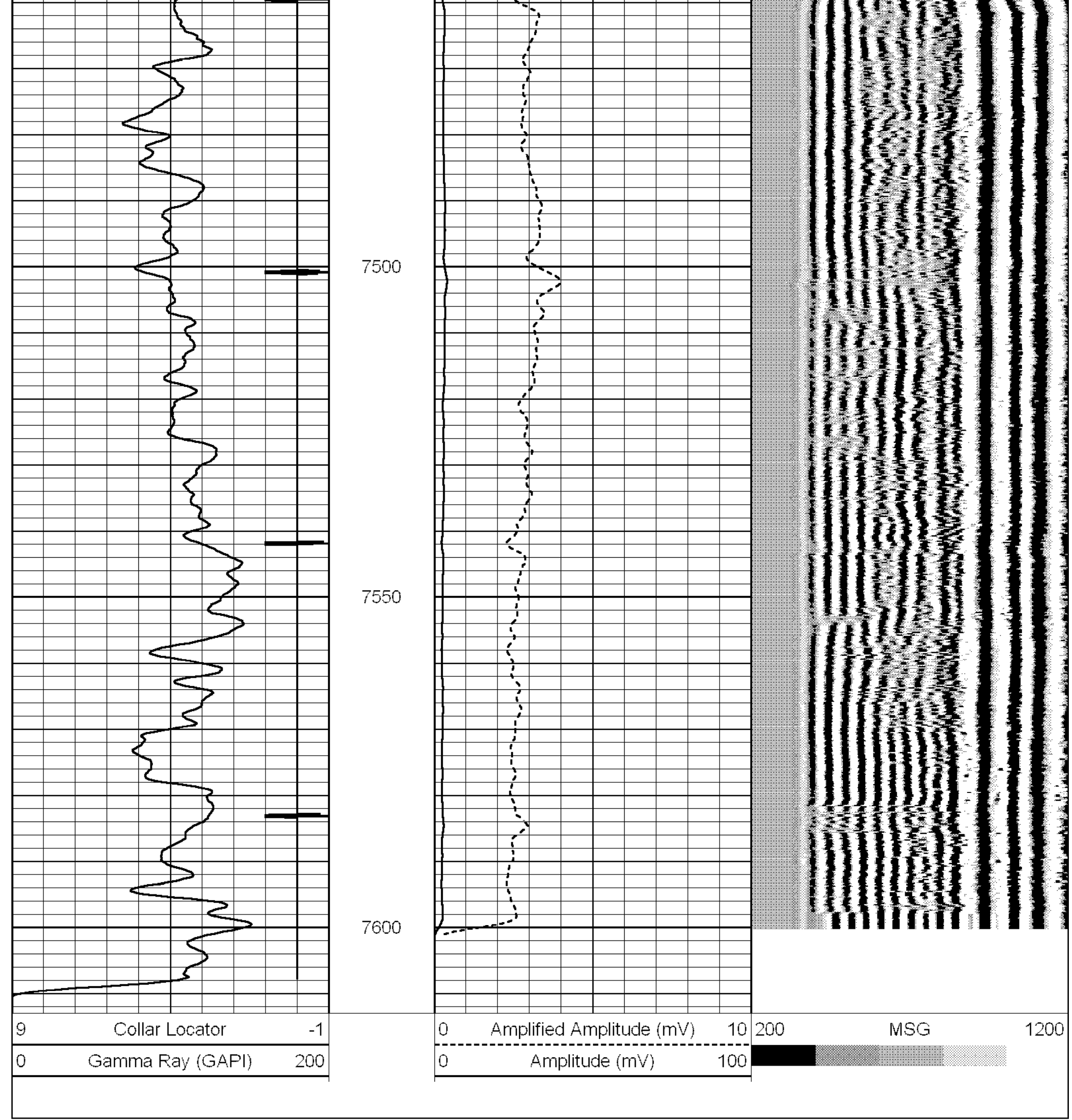
HALLIBURTON

NIOBRARA PASS

SCALE: 5"=100'

Database File: encana_edith_ann_6_8_21_cbl.db
Dataset Pathname: pass15
Presentation Format: jj_cbl
Dataset Creation: Mon Sep 13 11:58:15 2010 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240





9 Collar Locator -1
0 Gamma Ray (GAPI) 200
0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100
200 MSG 1200

HALLIBURTON

NIOBRARA PASS

SCALE: 5"=100'

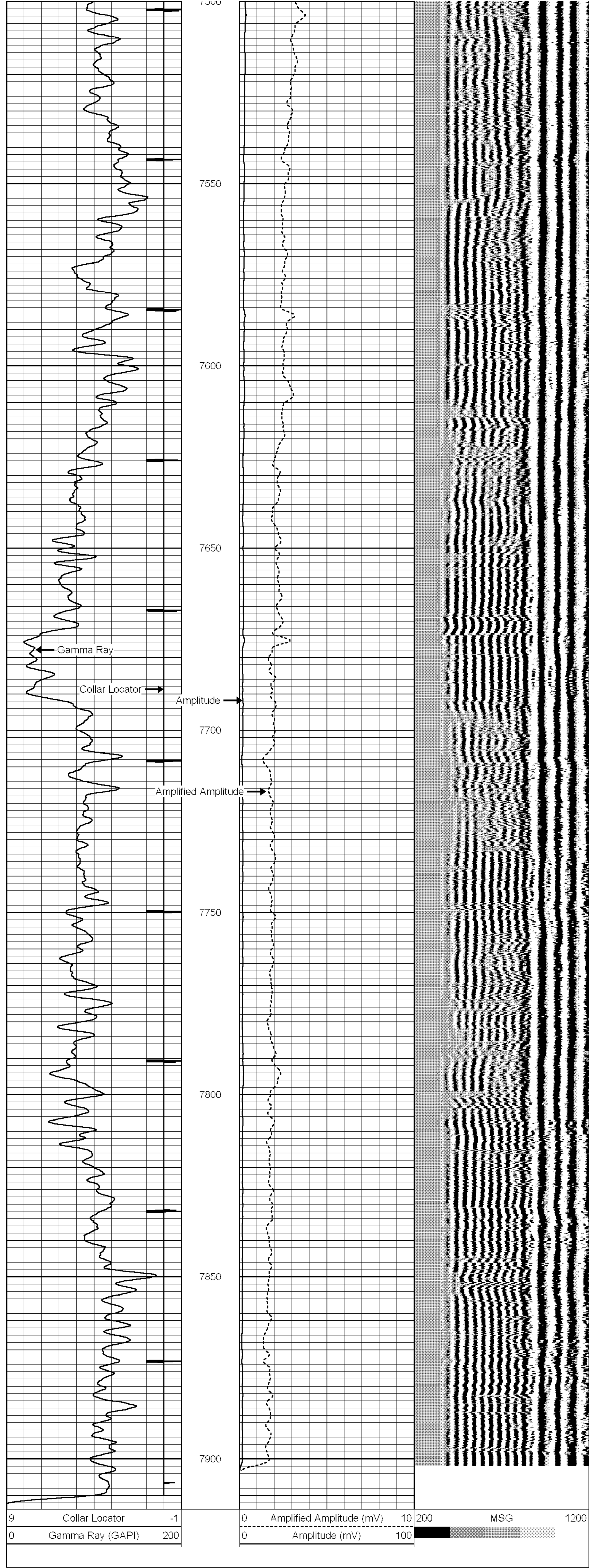
HALLIBURTON

CODELL PASS

SCALE: 5"=100'

Database File: encana_edith_ann_6_8_21_cbl.db
Dataset Pathname: pass14
Presentation Format: jj_cbl
Dataset Creation: Mon Sep 13 11:47:19 2010 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

9 Collar Locator -1
0 Gamma Ray (GAPI) 200
0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100
200 MSG 1200



9 Collar Locator -1
0 Gamma Ray (GAPI) 200
0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100
200 MSG 1200

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CODELL PASS

SCALE: 5"=100'

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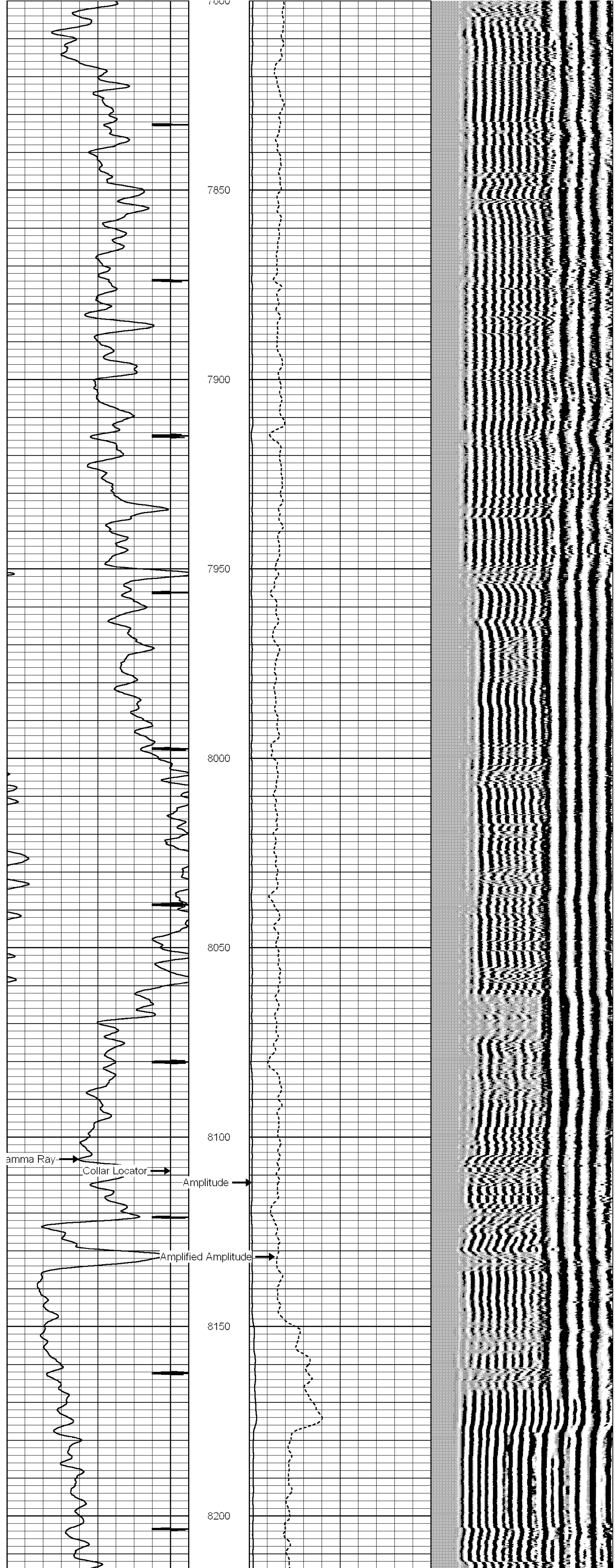
J-SAND PASS

SCALE: 5"=100'

Database File: encana_edith_ann_6_8_21_cbl.db
Dataset Pathname: pass13
Presentation Format: jj_cbl
Dataset Creation: Mon Sep 13 11:39:23 2010 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

9 Collar Locator -1
0 Gamma Ray (GAPI) 200
0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100
200 MSG 1200



9 Collar Locator -1
0 Gamma Ray (GAPI) 200
0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100
200 MSG 1200

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J-SAND PASS

SCALE: 5"=100'

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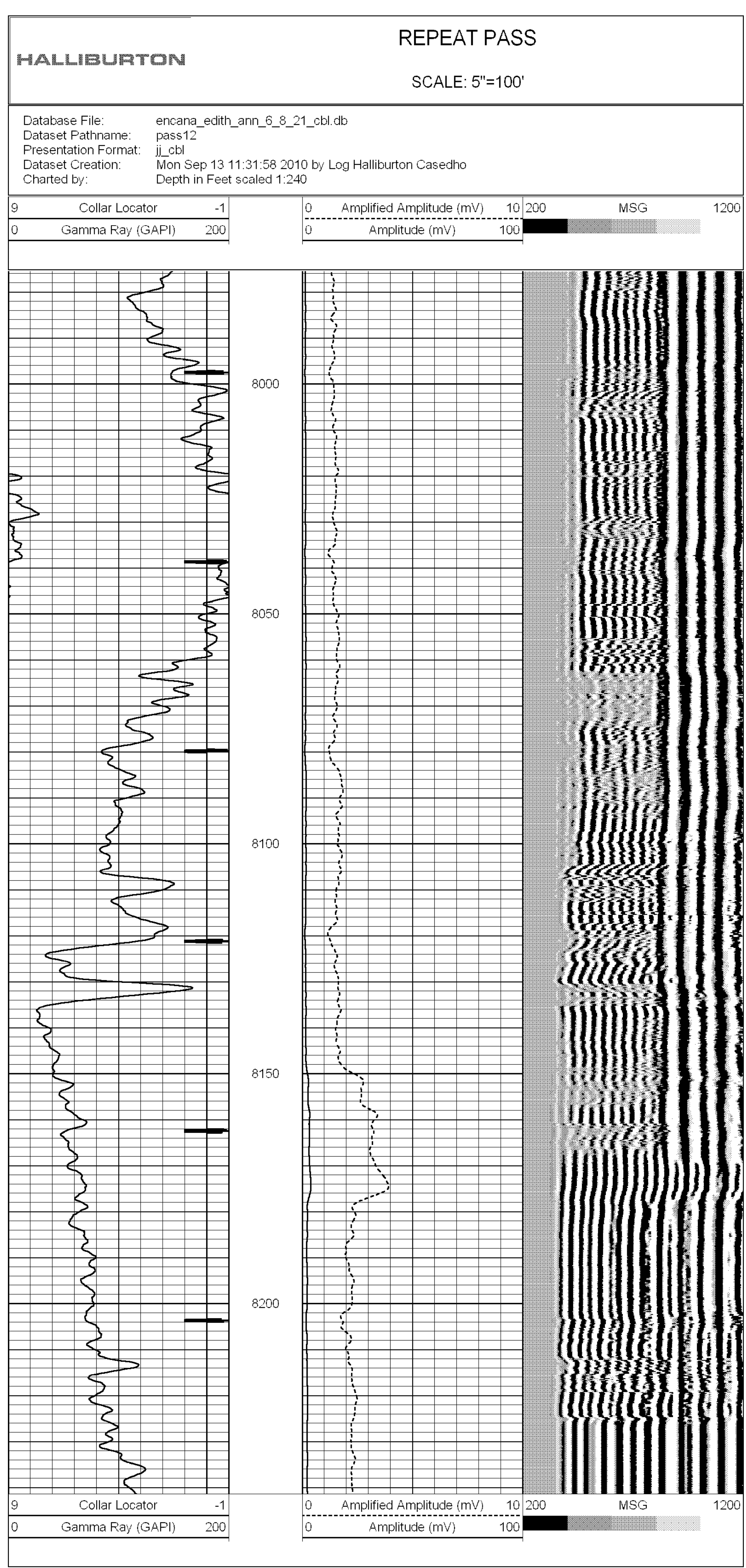
REPEAT PASS

SCALE: 5"=100'

Database File: encana_edith_ann_6_8_21_cbl.db
Dataset Pathname: pass12
Presentation Format: jj_cbl
Dataset Creation: Mon Sep 13 11:31:58 2010 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

9 Collar Locator -1
0 Gamma Ray (GAPI) 200
0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100
200 MSG 1200



9 Collar Locator -1
0 Gamma Ray (GAPI) 200
0 Amplified Amplitude (mV) 10
0 Amplitude (mV) 100
200 MSG 1200

HALLIBURTON

REPEAT PASS

SCALE: 5"=100'

Company EnCana Oil & Gas Inc,
Well Edith Ann 6-8-21
Field Wattenberg
County Weld
State Colorado

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Cement Bond Log