PSI
PHOENIX SURVEYS, INC.

Cement Bond Log
Gamma Ray - CCL - VDL

Company Encana Oil & Gas (USA) Inc.
Well Davis 2-4-9
Field Wattenberg
County Weld
State Colorado

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Field Wattenberg
County Weld State Colorado
Location: API #: 05-123-31575-0000
SHL: 2011' FNL & 519' FWL SW NW
BHL: 2590' FNL & 1500' FWL
SEC 9 TWP 2N RGE 66W

Other Services
MAST

Permanent Datum	Ground Level	Elevation 4880	Elevation K.B. 4892 D.F. 4891 G.L. 4880
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		

Date	28-Jul-2010
Run Number	1
Depth Driller	8086
Depth Logger	8033
Bottom Logged Interval	8032
Top Log Interval	3975
Open Hole Size	7.875"
Type Fluid	Water
Density / Viscosity	8.34 lb/gal
Max. Recorded Temp.	238 DEGF
Estimated Cement Top	5500
Time Well Ready	N/A
Time Logger on Bottom	N/A
Equipment Number	#54
Location	Ft. Morgan, CO
Recorded By	Sam Hopper
Witnessed By	Tom Cobb

Borehole Record				Tubing Record		
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String				
Prot. String				
Production String	4.5"	11.6	Surface	8086
Liner				

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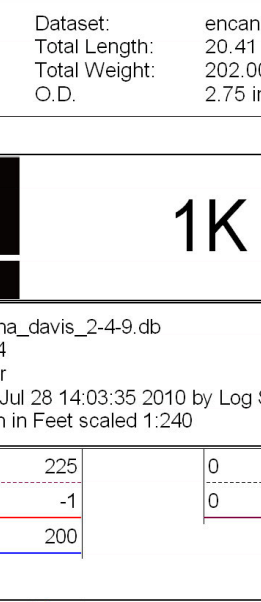
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

CBL is First Run in Hole.
Tools ran as per tool sketch.
Run CBL from TD to 200' above Est. TOC.
PSI Est. Cement Top @ 5500'
Run 1K psi Pressure Test CBL Pass from 5900' to 3975'
API #: 05-123-31575-00
Thank you for using Phoenix Surveys!!



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	1.00
		SDSCENT Centralizer	2.87	2.75	24.00
WVF3	12.04	CBL-Probe (050215)	8.75	2.75	93.00
WVF5	11.04				
		SDSCENT Centralizer	2.87	2.75	24.00
CCL	3.63				
		GR_CCL-SDS (SDSSEMO) GR/CCL (050-GR275-001)	4.92	2.75	60.00
GR	0.90				

Dataset: encana_davis_2-4-9.db: field/well/run1/pass4
Total Length: 20.41 ft
Total Weight: 202.00 lb
O.D. 2.75 in

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1K psi Pressure Pass

Database File: encana_davis_2-4-9.db
Dataset Pathname: pass4
Presentation Format: cbl_dr
Dataset Creation: Wed Jul 28 14:03:35 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

324	Travel Time (usec)	225	0	Amplified Amplitude (mV)	20	200	Variable Density	1200
9	CCL	-1	0	Amplitude (mV)	100			
0	GR (GAPI)	200						

324	Travel Time (usec)	225	0	Amplified Amplitude (mV)	20	200	Variable Density	1200
9	CCL	-1	0	Amplitude (mV)	100			
0	GR (GAPI)	200						

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CBL Main Pass

Database File: encana_davis_2-4-9.db
Dataset Pathname: pass3
Presentation Format: cbl_dr
Dataset Creation: Wed Jul 28 09:17:36 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240

324	Travel Time (usec)	225	0	Amplified Amplitude (mV)	20	200	Variable Density	1200
9	CCL	-1	0	Amplitude (mV)	100			
0	GR (GAPI)	200						

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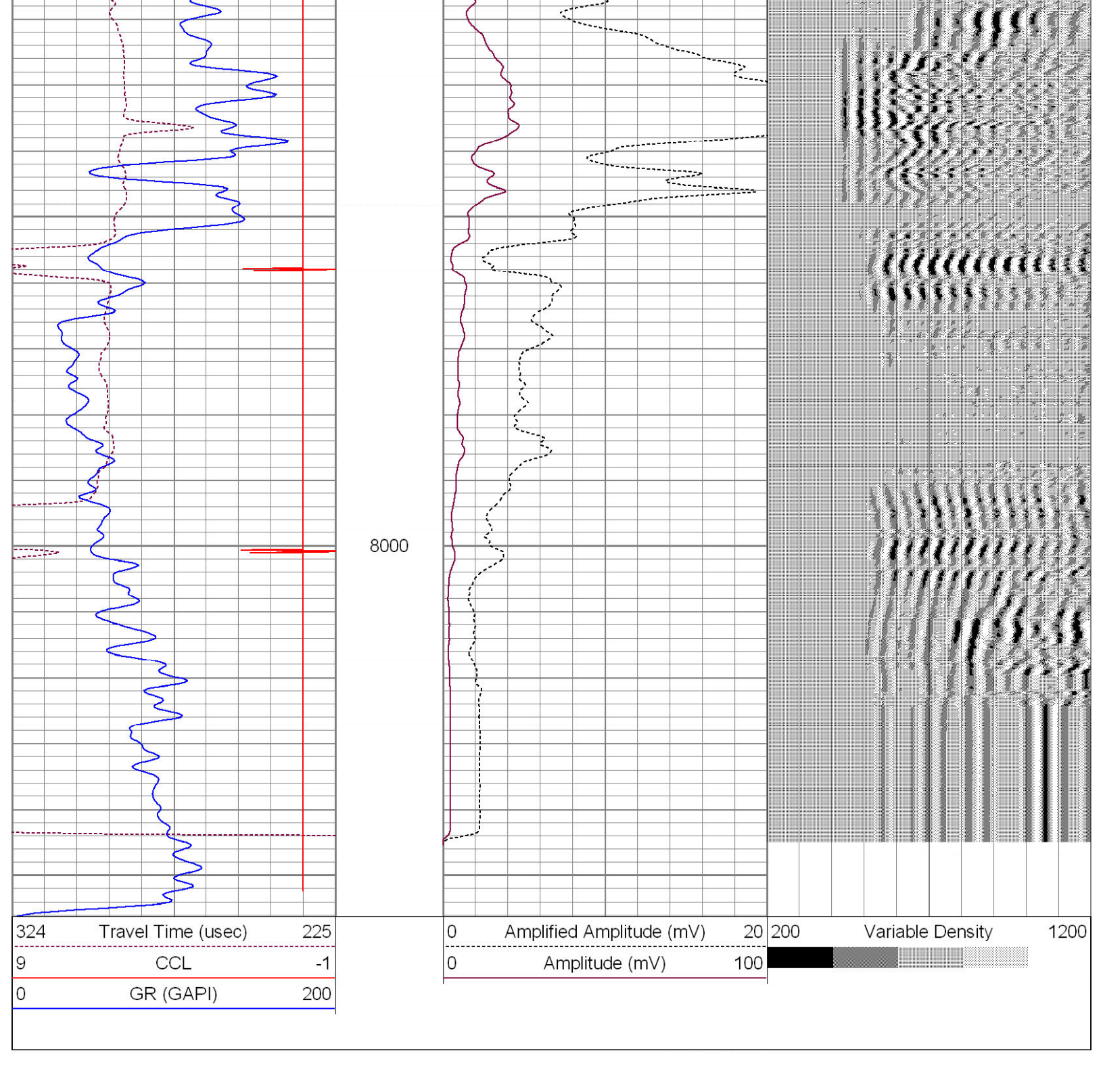
Repeat Section

Database File: encana_davis_2-4-9.db
Dataset Pathname: pass2
Presentation Format: cbl_dr
Dataset Creation: Wed Jul 28 09:12:14 2010 by Log Std Casedhole 09061
Charted by: Depth in Feet scaled 1:240


324 Travel Time (usec) 225
9 CCL -1
0 GR (GAPI) 200
0 Amplified Amplitude (mV) 20
0 Amplitude (mV) 100
200 Variable Density 1200
7800
7900
8000
324 Travel Time (usec) 225
9 CCL -1
0 GR (GAPI) 200
0 Amplified Amplitude (mV) 20
0 Amplitude (mV) 100
200 Variable Density 1200