HALLIBURTON

Cement Bond Log
Gamma Ray, CCL

Scale 1:240

Company	Encana Oil & Gas (USA) Inc
Well	Frederiksen #1
Field	Wattenberg
County	Weld
State	Colorado

Company Encana Oil & Gas (USA) Inc
Well Frederiksen #1
Field Wattenberg
County Weld State Colorado
API No.: Serv #: 6891048
Location: 1650 FNL 990 FEL
Other Services: None
Sec: 28 Twp: 3N Rge: 68W

Permanent Datum	GL	Elevation 4969	Elevation
Log Measured From	KB , 11 Ft. above perm. datum		K.B. 4980
Drilling Measured From	KB		D.F. 4979 G.L. 4969

Date @ Time Logged	12-Sept-2009	Type Fluid in Hole	Water
Run No.	One	Density of Fluid	8.4
Depth - Driller	7750	Fluid Level	Surface
Depth - Logger	4850	Cement Top Est. Logged	NA
Bottom - Logged Interval	4848	Equipment / Location	10971660 / Brighton
Top - Log Interval	Surface	Recorded by	Michael Snyder
Max. Recorded Temp.	NA	Witnessed by	Tom Majors

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			370 Sacks	
Cement Type / Weight	/	/	1.69Y / 13.5 PPG	/
Formulation			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

Log was correlated to Schlumberger Compensated Formation Density Log dated 2-July-1979

Thank you for choosing Halliburton!

Your crew today: Michael Snyder, Justin Johnson, Jared Brebrick

HALLIBURTON

Upper Pass

Scale 1:240

Database File: encana_fred_1.db
Dataset Pathname: cbl/top
Presentation Format: mikecbl
Dataset Creation: Sat Sep 12 09:24:51 2009
Charted by: Depth in Feet scaled 1:240

2.75 Collar Locator -0.25	0 AMP3FT (mV) 100	200 Variable Density 1200
50 Gamma Ray (GAPI) 150	0 AMP3FT (mV) 10	

2.75 Collar Locator -0.25	0 AMP3FT (mV) 100	200 Variable Density 1200
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Upper Pass

Scale 1:240

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Sussex Pass

Scale 1:240

Database File: encana_fred_1.db
Dataset Pathname: cbl/pass3
Presentation Format: mikecbl
Dataset Creation: Sat Sep 12 08:28:58 2009 by Log Halliburton Casedho
Charted by: Depth in Feet scaled 1:240

2.75 Collar Locator -0.25	0 AMP3FT (mV) 100	200 Variable Density 1200
50 Gamma Ray (GAPI) 150	0 AMP3FT (mV) 10	

2.75 Collar Locator -0.25	0 AMP3FT (mV) 100	200 Variable Density 1200
50 Gamma Ray (GAPI) 150	0 AMP3FT (mV) 10	

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Sussex Pass

Scale 1:240

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