HALLIBURTON

CEMENT BOND LOG

SCALE: 5"=100'

Company ENCANA OIL & GAS (USA) INC.
Well ARISTOCRAT ANGUS 4-6-4
Field WATTENBERG
County WELD State COLORADO

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API No.: 05-123-33993-0000 Serv #:
Location: SHL: 775' FSL & 1921' FWL SESW
BHL: 1250' FSL & 2582' FEL

Other Services
NONE

Sec: 4 Twp: 3N Rge: 65W

Permanent Datum GL Elevation 4820
Log Measured From KB , 12 Ft. above perm. datum
Drilling Measured From KB

Elevation
K.B. 4832
D.F. 4831
G.L. 4820

Date @ Time Logged	7-AUG-2012	Type Fluid in Hole	2% KCL
Run No.	ONE	Density of Fluid	8.4
Depth - Driller	7890	Fluid Level	SURFACE
Depth - Logger	7839	Cement Top Est. Logged	2825
Bottom - Logged Interval	7827	Equipment / Location	11874896 / BRIGHTON
Top - Log Interval	2600	Recorded by	TROY SCHROCK
Max. Recorded Temp.	256	Witnessed by	MR. THOMAS MAJORS

CEMENTING DATA	Surface String	Protection String	Production String	Liner
Date / Time Cemented			8-2-2012	
Primary / Squeeze			PRIMARY	
Expected Compressive Strength	psi@ hrs	psi@ hrs	psi@ hrs	psi@ hrs
Cement Volume			670 SKS	
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	SURFACE	7879

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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

PRIMARY DEPTH REFERENCE

GAMMA BLANKET VALUE OF 243 GAPI

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES

YOUR CREW TODAY: K. TOWNSEND, T. SCHROCK, B. RIEDEL, P. VASQUEZ, T. ANDERSON

HALLIBURTON

MAIN PASS

SCALE 5"=100'

Database File:	encana aristocrat angus 4-6-4.db
Dataset Pathname:	pass5
Presentation Format:	1katcbl
Dataset Creation:	Tue Aug 07 08:41:49 2012 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

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

HALLIBURTON

MAIN PASS

SCALE 5"=100'

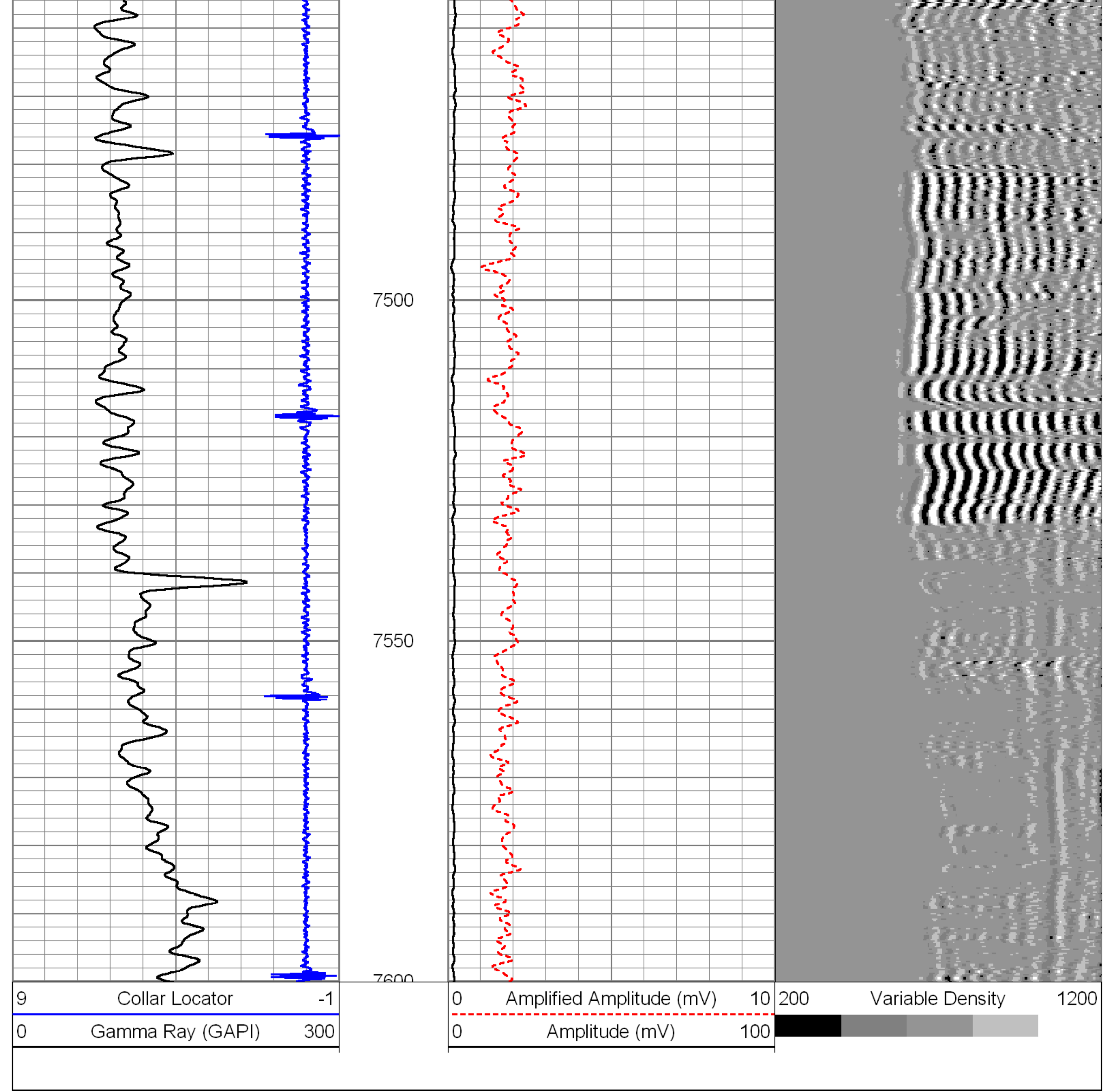
HALLIBURTON

REPEAT PASS

SCALE: 5"=100'

Database File:	encana aristocrat angus 4-6-4.db
Dataset Pathname:	pass3
Presentation Format:	1katcbl
Dataset Creation:	Tue Aug 07 08:34:01 2012 by Log Halliburton Casedho
Charted by:	Depth in Feet scaled 1:240

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



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

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REPEAT PASS

SCALE: 5"=100'

Company	ENCANA OIL & GAS (USA) INC.
Well	ARISTOCRAT ANGUS 4-6-4
Field	WATTENBERG
County	WELD
State	COLORADO

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CEMENT BOND LOG

SCALE: 5"=100'