PIONEER
Pioneer Energy Services

SECTOR BOND LOG
GAMMA RAY
CCL VDL

Company	EnCana Oil & Gas (USA) Inc.		
Well	VOGL-GEIST #2B-5H-E267		
Field	Wattenberg		
County	Weld		
State	Colorado	CountryUSA	

Company	EnCana Oil & Gas (USA) Inc.	
Well	VOGL-GEIST #2B-5H-E267	
Field	Wattenberg	
County	Weld	
State	Colorado	Country USA

Location: API # : 05-123-37816
2602' FNL & 331' FWL SWNW
SEC 5 TWP 2N RGE 67W

Other Services
None

Permanent Datum	GL	Elevation 4836	Elevation
Log Measured From	KB		K.B. 4866
Drilling Measured From	KB		D.F. 4866
			G.L. 4836

Date	April 26, 2014
Run Number	1
Depth Driller	14400
Depth Logger	7458
Bottom Logged Interval	7458
Top Log Interval	Surface
Open Hole Size	8-3/4"
Type Fluid	WBM
Density / Viscosity	10.5 / 44
Max. Recorded Temp.	NA
Estimated Cement Top	6380
Time Well Ready	2030
Time Logger on Bottom	2130
Equipment Number	49
Location	Ft. Morgan
Recorded By	Clint Christensen
Witnessed By	ROY HUNT

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	40#	Surf	NA
Prot. String	7"	26#	Surf	7622
Production String				
Liner				

<<< Fold Here >>>

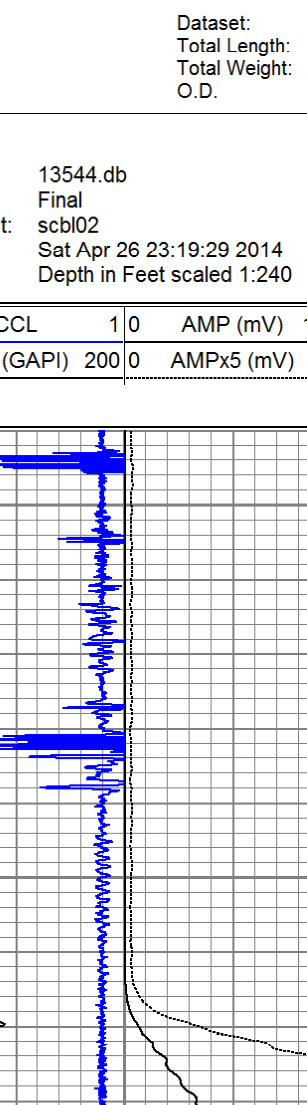
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees.

Comments

Log correlated to 7" casing tally

H & P Drilling Rig 522

Thank You for using Pioneer Energy!
SO# 13544

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	14.66					
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	11.41 11.41 11.41 11.41 11.41 11.41 11.41 11.41 11.41 11.41 10.41		RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
			CENT-A (1)	2.83	2.75	20.00
CCL	3.92					
GR	1.13		GR-probe 2.75 (111205) proble Digital CCL Gamma	4.33	2.75	100.00

Dataset: 13544.db: field/well/run1/Final
Total Length: 18.91 ft
Total Weight: 230.00 lb
O.D. 2.75 in

Database File: 13544.db
Dataset Pathname: Final
Presentation Format: scbl02
Dataset Creation: Sat Apr 26 23:19:29 2014
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File:	13544.db
Dataset Pathname:	Final
Dataset Creation:	Sat Apr 26 23:19:29 2014

Gamma Ray Calibration Report

Serial Number:	111205	
Tool Model:	probe 2.75	
Performed:	Sat Apr 26 21:06:15 2014	
Calibrator Value:	1.0	GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: Base
Tool Model: Probe

Calibration Casing Diameter: 4.500 in
Calibration Depth: 141.154 ft

Master Calibration, performed Sat Apr 26 21:06:15 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	0.743	0.000	62.200	62.834	-0.247
CAL	0.012	1.010				
5'	0.012	0.741	0.000	62.200	62.353	-0.681
SUM						
S1	0.005	0.807	0.000	100.000	91.812	-0.927
S2	0.012	0.829	0.000	100.000	89.375	-0.331
S3	0.012	0.762	0.000	100.000	95.230	-0.472
S4	0.012	0.690	0.000	100.000	100.837	-0.654
S5	0.012	0.658	0.000	100.000	107.088	-0.624
S6	0.012	0.656	0.000	100.000	104.484	-0.758
S7	0.012	0.687	0.000	100.000	106.079	-0.892
S8	0.012	0.730	0.000	100.000	103.327	-0.821

Internal Reference Calibration, performed Tue Nov 21 12:42:07 2006:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.012	1.010	1.000	0.000

Air Zero Calibration, performed Thu Apr 24 09:23:40 2008:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.000	0.000	0.000
5'	0.000	0.000	0.000
SUM			
S1	0.000	0.000	0.000
S2	0.000	0.000	0.000
S3	0.000	0.000	0.000
S4	0.000	0.000	0.000
S5	0.000	0.000	0.000
S6	0.000	0.000	0.000
S7	0.000	0.000	0.000
S8	0.000	0.000	0.000