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Pioneer Energy Services

GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

Company	EnCana Oil & Gas (USA) Inc.
Well	Vogl McCoy 2C-5H-E267
Field	Wattenberg
County	Weld
State	Colorado
Location:	API #: 05123378180000 2602' FNL & 341' FWL SWNW
Country	USA
Other Services	None

Company EnCana Oil & Gas (USA) Inc.
Well Vogl McCoy 2C-5H-E267
Field Wattenberg
County Weld
State Colorado
Country USA

SEC 5 TWP 2N RGE 67W

Permanent Datum	GL	Elevation 4836	Elevation
Log Measured From	KB		K.B. 4866
Drilling Measured From	KB		D.F. 4865
			G.L. 4836

Date	April 17, 2014
Run Number	1
Depth Driller	14648
Depth Logger	7364'
Bottom Logged Interval	7363'
Top Log Interval	0
Open Hole Size	8-3/4"
Type Fluid	Drilling Mud
Density / Viscosity	10.7 / 41
Max. Recorded Temp.	NA
Estimated Cement Top	104
Time Well Ready	0410
Time Logger on Bottom	0600
Equipment Number	49
Location	Brighton, CO
Recorded By	Matt Gill
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				
Prot. String				
Production String	7"	26 lbs	0	7552'
Liner				

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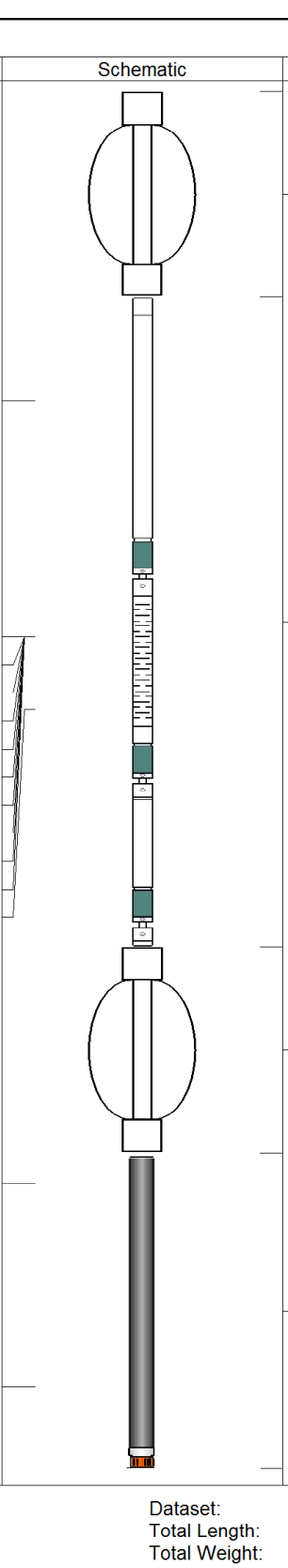
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages,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

Comments

Thank You for using Pioneer Energy Services
H&P Rig 522

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	11.41		RBT-Probe (Base) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
WVFCAL	11.41					
WVFS1	11.41					
WVFS2	11.41					
WVFS3	11.41					
WVFS4	11.41					
WVFS5	11.41					
WVFS6	11.41					
WVFS7	11.41					
WVFS8	11.41					
WVF5FT	10.41					
			CENT-A (1)	2.83	2.75	20.00
CCL	3.92					
			GR-probe 2.75 (111205) proble Digital CCL Gamma	4.33	2.75	100.00
GR	1.13					

Dataset:	13534.db: field/well/run1/pass2
Total Length:	18.91 ft
Total Weight:	230.00 lb
O.D.	2.75 in

Database File:	13534.db
Dataset Pathname:	pass2.1
Presentation Format:	scbl02
Dataset Creation:	Thu Apr 17 07:23:14 2014 by Calc 0
Charted by:	Depth in Feet scaled 1:240

Calibration Report

Database File:	13534.db
Dataset Pathname:	pass2.1
Dataset Creation:	Thu Apr 17 07:23:14 2014 by Calc 0

Gamma Ray Calibration Report

Serial Number:	111205	
Tool Model:	probe 2.75	
Performed:	Wed Feb 26 01:14:34 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 Tue Apr 01 23:42:50 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	0.743	0.000	62.200	66.710	-0.775
CAL	0.012	1.010				
5'	0.012	0.741	0.000	62.200	79.044	-0.296
SUM						
S1	0.005	0.807	0.000	100.000	81.564	-0.134
S2	0.012	0.829	0.000	100.000	78.576	-0.692
S3	0.012	0.762	0.000	100.000	78.796	-0.765
S4	0.012	0.690	0.000	100.000	84.872	-0.621
S5	0.012	0.658	0.000	100.000	90.178	-0.521
S6	0.012	0.656	0.000	100.000	89.425	0.057
S7	0.012	0.687	0.000	100.000	81.963	-0.437

S8	0.012	0.730	0.000	100.000	81.400	-0.659

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