Company	EnCana Oil & Gas (USA) Inc.
Well	Bohrer 2I-19H E368
Field	Wattenberg
County	Weld
State	Colorado
Country	USA

PIONEER

Pioneer Energy Services

GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

Company	EnCana Oil & Gas (USA) Inc.
Well	Bohrer 2I-19H E368
Field	Wattenberg
County	Weld
State	Colorado
Country	USA

Location: API # : 05-123-38442

SHL: 1442' FNL & 762' FWL SWNW

SEC 19 TWP 3N RGE 68W

Other Services: None

Permanent Datum	GL	Elevation	5058
Log Measured From	KB		
Drilling Measured From	KB		

Elevation: K.B. 5088
D.F. 5088
G.L. 5058

Date	July 12, 2014
Run Number	1
Depth Driller	11500
Depth Logger	7350
Bottom Logged Interval	7349
Top Log Interval	0
Open Hole Size	8-3/4"
Type Fluid	WBM
Density / Viscosity	11.4 / 44
Max. Recorded Temp.	NA
Estimated Cement Top	304
Time Well Ready	0515
Time Logger on Bottom	0615
Equipment Number	49
Location	Ft. Morgan, CO
Recorded By	Clint Christensen
Witnessed By	Ira Cox

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	7487
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.

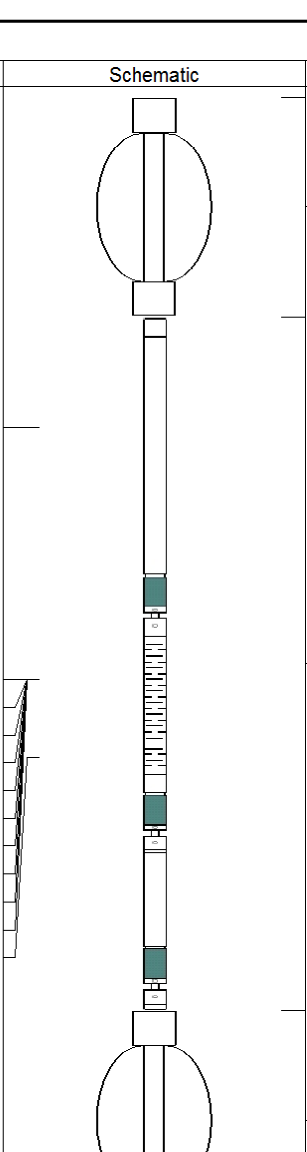
Comments

Depth Correlated to 7" Tally

Patterson Rig 326

Thank You for using Pioneer Energy Services

SO# 2-013606



Sensor	Offset (ft)	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-probe 2.75 (111205) proble Digital CCL Gamma	4.33	2.75	100.00
GR	1.13				

Dataset: 13606.db: field/well/run1/Final
Total Length: 18.91 ft
Total Weight: 230.00 lb
O.D. 2.75 in

Database File: 13606.db
Dataset Pathname: Final
Presentation Format: scbl02
Dataset Creation: Sat Jul 12 19:55:08 2014
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File:	13606.db
Dataset Pathname:	Final
Dataset Creation:	Sat Jul 12 19:55:08 2014

Gamma Ray Calibration Report

Serial Number:	111205	
Tool Model:	probe 2.75	
Performed:	Fri Jul 11 06:55:35 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:	7.000	in
Calibration Depth:	125.428	ft

Master Calibration, performed Fri Jul 11 07:03:42 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	0.861	0.000	62.200	68.765	-0.142
CAL	0.012	1.015				
5'	0.012	0.934	0.000	62.200	69.986	-0.412
SUM						
S1	0.005	0.969	0.000	100.000	81.899	-0.839
S2	0.012	0.953	0.000	100.000	83.330	-0.963
S3	0.012	0.843	0.000	100.000	83.316	-0.950
S4	0.012	0.764	0.000	100.000	81.695	-0.990
S5	0.012	0.747	0.000	100.000	83.110	-0.998
S6	0.012	0.760	0.000	100.000	82.923	-0.792
S7	0.012	0.821	0.000	100.000	82.231	-0.858
S8	0.012	0.887	0.000	100.000	81.498	-0.569

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	1.015	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