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

PIONEER
Pioneer Energy Services

GAMMA RAY CCL CEMENT BOND VDL SECTOR MAP

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

Location: API #: 05123384450000
1402' FNL & 762' FWL
SWNW
SEC 19 TWP 3N RGE 68W

Other Services
None

Permanent Datum GL Elevation 5059
Log Measured From KB
Drilling Measured From KB

Elevation
K.B. 5091
D.F. 5090
G.L. 5059

Date	June 13, 2014
Run Number	1
Depth Driller	11300'
Depth Logger	7158'
Bottom Logged Interval	7157'
Top Log Interval	0
Open Hole Size	8-3/4"
Type Fluid	Drilling Mud
Density / Viscosity	11.0 / 46
Max. Recorded Temp.	NA
Estimated Cement Top	400'
Time Well Ready	0245
Time Logger on Bottom	0415
Equipment Number	49
Location	Brighton, CO
Recorded By	Matt Gill
Witnessed By	Mike Quintana

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	7220'
Liner				

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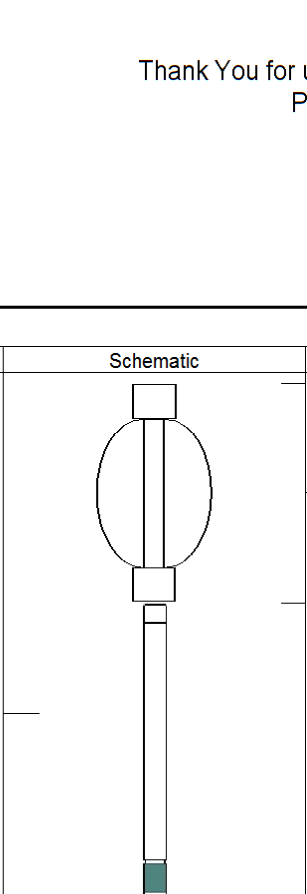
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, 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
Patterson Rig 326



Sensor	Offset (ft)	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: 13578.db: field/well/run1/pass2
Total Length: 18.91 ft
Total Weight: 230.00 lb
O.D. 2.75 in

Database File: 13578.db
Dataset Pathname: pass2
Presentation Format: scbl02
Dataset Creation: Fri Jun 13 04:09:40 2014 by Log 0
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: 13578.db
Dataset Pathname: pass2
Dataset Creation: Fri Jun 13 04:09:40 2014 by Log 0

Gamma Ray Calibration Report

Serial Number:	111205	
Tool Model:	probe 2.75	
Performed:	Wed Jun 11 10:38:21 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:	239.842	ft

Master Calibration, performed Wed Jun 11 10:38:10 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.012	0.861	0.000	62.200	66.537	-0.143
CAL	0.012	1.015				
5'	0.012	0.934	0.000	62.200	58.737	-0.644
SUM						
S1	0.005	0.969	0.000	100.000	85.272	-0.117
S2	0.012	0.953	0.000	100.000	65.295	0.165
S3	0.012	0.843	0.000	100.000	65.382	-0.552
S4	0.012	0.764	0.000	100.000	67.277	-0.777
S5	0.012	0.747	0.000	100.000	64.191	-0.417
S6	0.012	0.760	0.000	100.000	65.766	-0.608
S7	0.012	0.821	0.000	100.000	67.946	-0.872
S8	0.012	0.887	0.000	100.000	70.302	-0.776

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