PIONEER
Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company	EnCana Oil & Gas (USA) Inc.
Well	Newnam 2F-32H-C264
Field	Wattenberg
County	Weld
State	Colorado
Country	USA

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Location: API #: 05-123-39778
SHL: 308' FNL 1597' FWL NENW
SEC 32 TWP 2N RGE 64W

Other Services
None

Permanent Datum	GL	Elevation	4953
Log Measured From	KB		
Drilling Measured From	KB		

Elevation
K.B. 4966
D.F. 4965
G.L. 4953

Date	December 18, 2014
Run Number	1
Depth Driller	11632
Depth Logger	7350
Bottom Logged Interval	7350
Top Log Interval	0
Open Hole Size	8-3/4"
Type Fluid	WBM
Density / Viscosity	10.9 / 42
Max. Recorded Temp.	NA
Estimated Cement Top	258
Time Well Ready	2030 12/17/2014
Time Logger on Bottom	0245
Equipment Number	36
Location	Ft. Morgan, CO
Recorded By	Clint Christensen
Witnessed By	Kirby Burchett

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	7529'
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

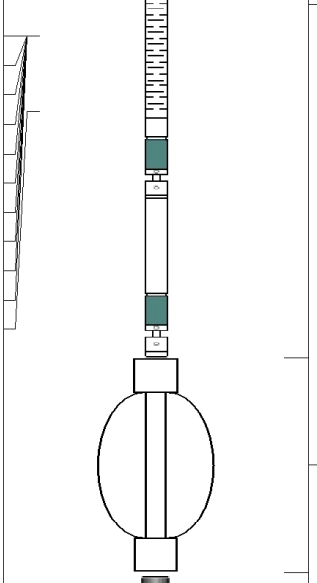
RBL logged Under 0 PSI

Logged Correlated to 7" Tally

Ensign Drilling Rig #124

Thank You for Choosing Pioneer Energy Services.

SO#2-013746

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CENT #2 -A (1)	2.83	2.75	20.00
IntTemp	14.66					
TEMP	13.64					
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-RBT-C3 (11206) Probe Radii Bond Tool with Digital Telemetry	9.33	2.75	90.00
			CENT-A (1)	2.83	2.75	20.00
CCL	3.92					
			GR-probe 2.75 (51013) proble Digital CCL Gamma	4.33	2.75	100.00
GR	1.13					

Dataset: 13746.db: field/well/run1/Final
Total Length: 19.32 ft
Total Weight: 230.00 lb
O.D. 2.75 in

Database File: 13746.db
Dataset Pathname: Final
Presentation Format: scbl002
Dataset Creation: Thu Dec 18 04:30:36 2014
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: 13746.db
Dataset Pathname: Final
Dataset Creation: Thu Dec 18 04:30:36 2014

Gamma Ray Calibration Report

Serial Number: 51013
Tool Model: probe 2.75
Performed: Mon Dec 15 05:21:09 2014

Calibrator Value: 1400.0 GAPI

Background Reading: 26.8 cps
Calibrator Reading: 1120.0 cps

Sensitivity: 1.0000 GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number: 11206
Tool Model: RBT-C3

Calibration Casing Diameter: 7.000 in
Calibration Depth: 7395.168 ft

Master Calibration, performed Thu Dec 18 04:26:49 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.010	1.282	1.000	62.200	47.339	1.494
CAL	0.013	0.855				
5'	0.009	1.237	1.000	62.200	49.868	0.531
SUM						
S1	-0.022	1.400	0.000	100.000	70.355	1.520
S2	-0.017	1.344	0.000	100.000	73.461	1.238
S3	-0.006	1.396	0.000	100.000	71.302	0.439
S4	-0.009	1.471	0.000	100.000	67.571	0.599
S5	-0.009	1.391	0.000	100.000	71.436	0.663
S6	-0.013	1.336	0.000	100.000	74.126	0.994
S7	-0.016	1.358	0.000	100.000	72.803	1.142
S8	-0.000	1.435	0.000	100.000	69.691	0.019

Internal Reference Calibration, performed Wed Dec 31 17:00:00 1969:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.013	0.989	1.000	0.000

Air Zero Calibration, performed Tue Nov 25 22:37:44 2014:

	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

Temperature Calibration Report

Serial Number:	11206
Tool Model:	RBT-C3
Performed:	Mon Dec 15 05:21:22 2014

	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF

Gain:	0.30
Offset:	12.00
Delta Spacing	1