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Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company	ENCANA OIL & GAS (USA) INC
Well	DALE 4D-20H-O264
Field	WATTENBERG
County	WELD
State	CO

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Location: API # : 05123397300000
SHL: 338' FSL & 1784' FEL SWSE
LAT: 40.117642
LONG: -104.57194
SEC 20 TWP 2N RGE 64W

Other Services
None

Permanent Datum	GL	Elevation 4958	Elevation	
Log Measured From	KB		K.B.	4983
Drilling Measured From	KB...25' ABOVE GL		D.F.	4983
			G.L.	4958

Date of Service	NOVEMBER 1, 2014
Run Number	1
Depth Driller or PBTD	11626
Depth Logger	7132
Bottom Log Interval	7130
Top Log Interval	SURFACE
Open Hole Size	8+3/4"
Type Fluid	WBM
Fluid Level	124
Fluid Density	11.1 PPG
Max. Recorded Temperature	NA
Max. Wellhead Pressure	0
Wellhead Connection	PACKOFF TO 7" LTC
Estimated Cement Top	139
Unit Number	P-59
Wireline Size	9/32"
Location	FT. MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR GEORGE COBB

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	40#	SURFACE	1087
Production Casing	7"	26#	SURFACE	7337
Liner Record	4+1/2"	13.5#	SURFACE	NA

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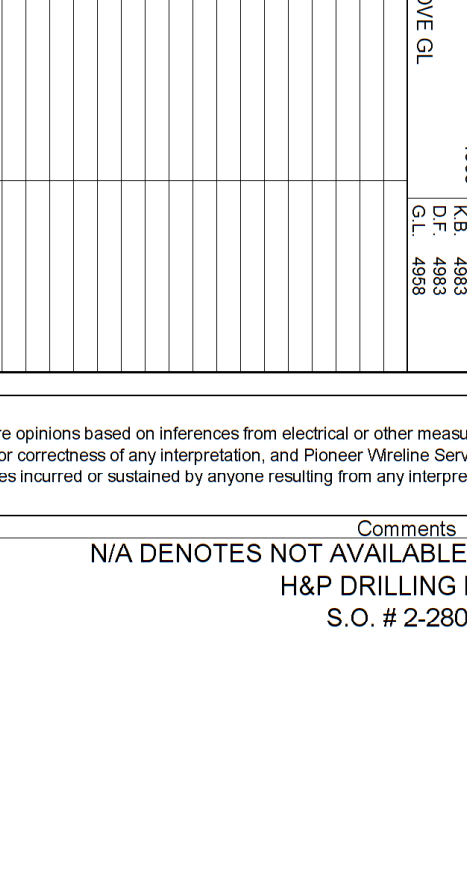
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages,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

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
H&P DRILLING RIG 278
S.O. # 2-280073

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew	Tool Data - Services	Serial Number
Engineer: SHAUN	SECTOR CBL	130434
Operator: GENO	GR	111211
Operator: MARCUS		
Operator:		



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	10.00
		PTS275	2.83	2.75	
WVF3FT WVFCAL WVFS1 WVFS2 WVFS3 WVFS4 WVFS5 WVFS6 WVFS7 WVFS8 WVF5FT	11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 11.71 10.63	RBT-Probe (070132) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
		PTS275	2.83	2.75	
CCL	3.63				
GR	0.90	GR_CCL-Probe (111211) Probe Gamma CCL	4.54	2.75	100.00

Dataset: dale 4d-20h-o264_rbl.db: field/well/RBL/pass2
Total Length: 20.13 ft
Total Weight: 200.00 lb
O.D. 2.75 in

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MAIN LOG

LOGGED WITH 0 PSI APPLIED AT SURFACE

Database File: dale 4d-20h-o264_rbl.db
Dataset Pathname: RBL/pass2.5
Presentation Format: scbl02
Dataset Creation: Sat Nov 01 09:39:01 2014 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: dale 4d-20h-o264_rbl.db
Dataset Pathname: RBL/pass1
Dataset Creation: Sat Nov 01 08:24:04 2014 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number: 111211
Tool Model: Probe
Performed: Sat Nov 01 08:00:27 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: 070132
Tool Model: Probe

Calibration Casing Diameter: 4.500 in
Calibration Depth: 2146.558 ft

Master Calibration, performed Wed Oct 22 21:06:24 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.005	0.663	1.179	82.010	111.000	1.300
CAL	0.010	0.758				
5'	0.010	0.528	1.179	82.010	156.064	-0.443
SUM						
S1	0.000	0.622	0.000	100.000	160.884	-0.020
S2	0.002	0.625	0.000	100.000	160.478	-0.284
S3	0.005	0.626	0.000	100.000	160.924	-0.772
S4	0.002	0.641	0.000	100.000	156.488	-0.326
S5	0.006	0.639	0.000	100.000	157.892	-0.907
S6	0.006	0.628	0.000	100.000	160.843	-1.011
S7	0.002	0.626	0.000	100.000	160.254	-0.309
S8	-0.000	0.623	0.000	100.000	160.424	0.036

Internal Reference Calibration, performed Sat Oct 11 18:02:36 2014:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.010	0.758	1.000	0.000

Air Zero Calibration, performed Sat Oct 11 18:38:41 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

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