PIONEER
Pioneer Energy Services

RADIAL SECTOR BOND LOG WITH GAMMA RAY

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

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

Location: API # : 05123397280000
SHL: 337' FSL & 1791' FEL SWSE
LAT: 40.117642
LONG: -104.571967
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 8, 2014
Run Number	1
Depth Driller or PBTD	11533
Depth Logger	7136
Bottom Log Interval	7134
Top Log Interval	SURFACE
Open Hole Size	8+3/4"
Type Fluid	WBM
Fluid Level	78
Fluid Density	11.3 PPG
Max. Recorded Temperature	NA
Max. Wellhead Pressure	0
Wellhead Connection	PACKOFF TO 7" LTC
Estimated Cement Top	490
Unit Number	P-59
Wireline Size	9/32"
Location	FT. MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR RANDY BURKE

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	40#	SURFACE	1061
Production Casing	7"	26#	SURFACE	7273
Liner Record	4+1/2"	13.5#	SURFACE	NA

<<< Fold Here >>>

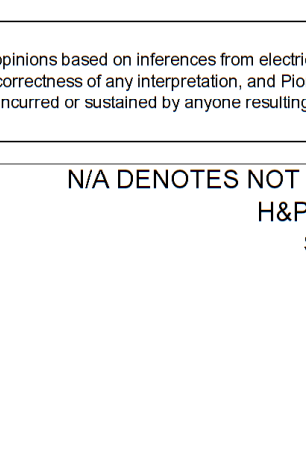
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages,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

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
H&P DRILLING RIG 278
S.O. # 2-280082

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew	Tool Data - Services	Serial Number
Engineer: SHAUN	SECTOR CBL	130434
Operator: ANGELO	GR	111211
Operator: BRIAN		
Operator: MATT		



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 (130434) Probe Radii Bond Tool with Digital Telemetry	8.92	2.75	90.00
		PTS275	2.83	2.75	
CCL GR	3.63 0.90	GR_CCL-Probe (111211) Probe Gamma CCL	4.54	2.75	100.00

Dataset: dale 4c-20h o264_rbl.db: field/well/rbl/pass1
Total Length: 20.13 ft
Total Weight: 200.00 lb
O.D. 2.75 in

PIONEER
Pioneer Energy Services

MAIN LOG

LOGGED WITH 0 PSI APPLIED AT SURFACE

Database File: dale 4c-20h o264_rbl.db
Dataset Pathname: rbl/pass2.1
Presentation Format: scbl02
Dataset Creation: Sat Nov 08 09:09:46 2014 by Calc 7.0 B1
Charted by: Depth in Feet scaled 1:240

Calibration Report

Database File: dale 4c-20h o264_rbl.db
Dataset Pathname: rbl/pass1
Dataset Creation: Sat Nov 08 07:46:07 2014 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	111211	
Tool Model:	Probe	
Performed:	Sat Nov 01 12:31:08 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0500	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	130434	
Tool Model:	Probe	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1686.508	ft

Master Calibration, performed Tue Nov 04 15:17:27 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.005	0.755	1.501	62.165	96.000	2.880
CAL	-0.003	0.747				
5'	-0.001	0.615	1.501	62.165	98.393	1.648
SUM						
S1	-0.008	0.628	0.000	100.000	157.139	1.281
S2	-0.002	0.629	0.000	100.000	158.622	0.242
S3	-0.002	0.644	0.000	100.000	154.715	0.302
S4	-0.003	0.667	0.000	100.000	149.196	0.450
S5	0.000	0.677	0.000	100.000	147.627	-0.016
S6	-0.003	0.693	0.000	100.000	143.563	0.463
S7	-0.003	0.674	0.000	100.000	147.860	0.415
S8	0.001	0.656	0.000	100.000	152.806	-0.216

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	-0.003	0.747	1.000	0.000

Air Zero Calibration, performed Wed Dec 31 17:00:00 1969:

	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

PIONEER
Pioneer Energy Services

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