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RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company	ENCANA OIL & GAS (USA) INC
Well	NEWNAM 2L-32H C264
Field	WATTENBERG
County	WELD
State	CO

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Location: API #: 05123402880000
SHL: 308' FNL & 1657' FWL NENW
LAT: 40.101465
LONG: -104.578315
SEC 32 TWP 2N RGE 64W

Other Services
None

Permanent Datum	GL	Elevation 4956	Elevation K.B. 4969 D.F. 4969 G.L. 4956
Log Measured From	KB		
Drilling Measured From	KB... 13' ABOVE GL		

Date of Service	FEBRUARY 18, 2015
Run Number	ONE
Depth Driller or PBTD	11680
Depth Logger	7216
Bottom Log Interval	7214
Top Log Interval	SURFACE
Open Hole Size	8+7/8"
Type Fluid	WBM
Fluid Level	60
Fluid Density	10.5 PPG
Max. Recorded Temperature	207 F
Max. Wellhead Pressure	0
Wellhead Connection	PACKOFF TO 7" LTC
Estimated Cement Top	198
Unit Number	P96
Wireline Size	1/4"
Location	FT MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR K BUCHETT

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	9+5/8"	40#	SURFACE	1140
Production Casing	7"	26#	SURFACE	7624
Liner Record	4+1/2"	13.5#	SURFACE	NA

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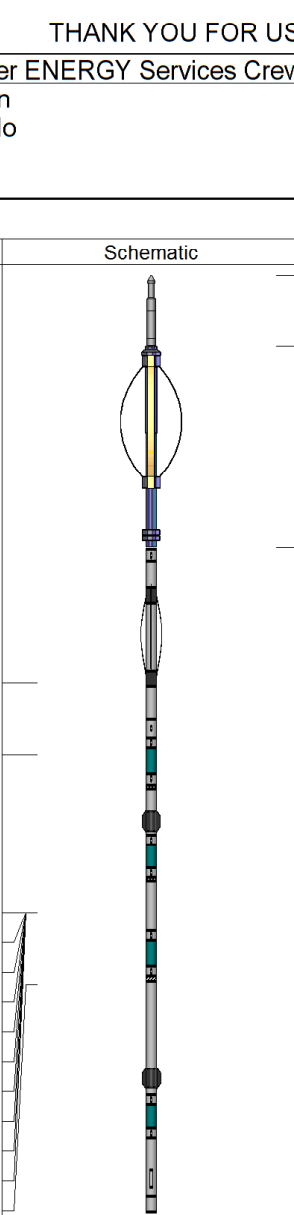
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages, 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.
SO# 2-280128
ENSIGN DRILLING RIG 124

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew	Tool Data - Services	Serial Number
Engineer: Shaun Operator: Angelo Operator: Matt Operator: Geno	Sector CBL	111206



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	
IntTemp	14.88				
TEMP	13.86				
WVF3FT	11.63	RBT-RBT-C3 (111206_7in) Probe Radii Bond Tool with Digital Telemetry	9.40	2.75	90.00
WVFCAL	11.63				
WVFS1	11.63				
WVFS2	11.63				
WVFS3	11.63				
WVFS4	11.63				
WVFS5	11.63				
WVFS6	11.63				
WVFS7	11.63				
WVFS8	11.63				
WVF5FT	10.63				
		PTS275	2.83	2.75	
CCL	3.63				
GR	0.90	GR_CCL-Probe (110249) Probe Gamma CCL	4.54	2.75	100.00

Dataset: newnam 2l-32h c264_rbl.db: field/well/rbl/pass2
Total Length: 20.60 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: newnam 2l-32h c264_rbl.db
Dataset Pathname: rbl/pass2
Presentation Format: scbl02
Dataset Creation: Wed Feb 18 05:26:44 2015 by Log 7.0 B1
Charted by: Depth in Feet scaled 1:240

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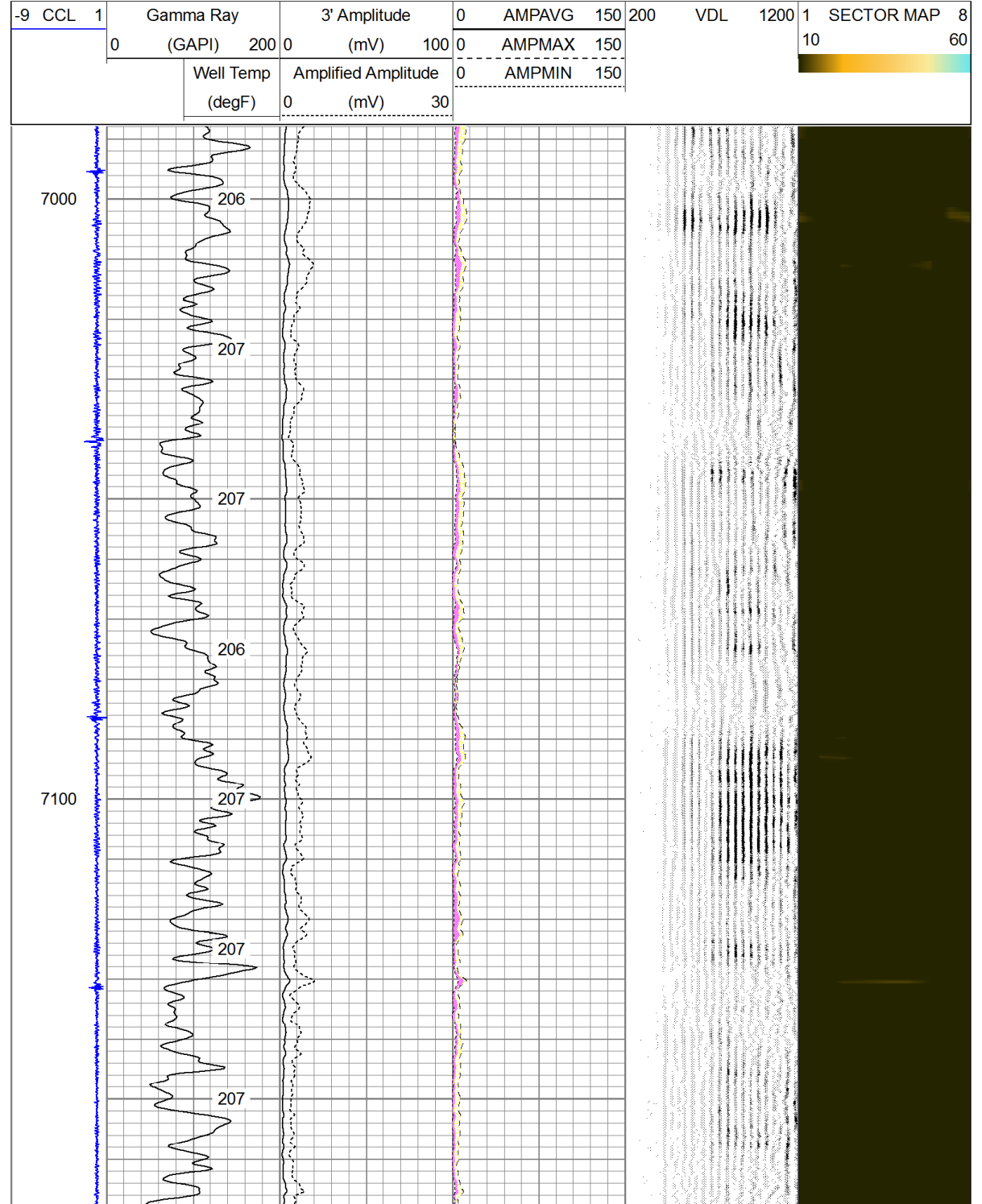
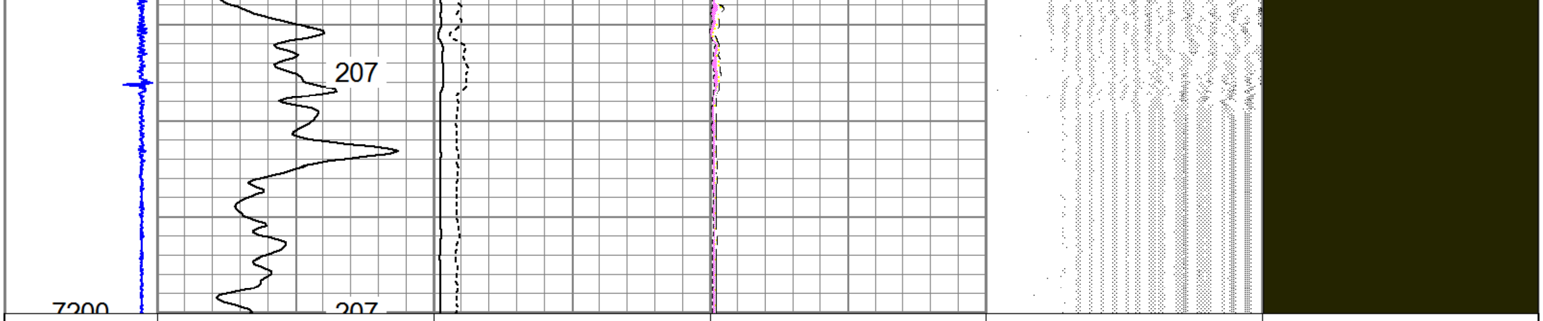
REPEAT SECTION

LOGGED WITH 0 PSI APPLIED AT SURFACE

Database File:	newnam 2l-32h c264_rbl.db
Dataset Pathname:	rbl/pass1
Presentation Format:	scbl02
Dataset Creation:	Wed Feb 18 05:20:08 2015 by Log 7.0 B1
Charted by:	Depth in Feet scaled 1:240





-9 CCL 1	Gamma Ray 0 (GAPI) 200	3' Amplitude 0 (mV) 100	0 AMPAVG 150	200 VDL 1200	1 SECTOR MAP 8
			0 AMPMAX 150		10 60
	Well Temp (degF)	Amplified Amplitude 0 (mV) 30	0 AMPMIN 150		

Calibration Report

Database File: newnam 2l-32h c264_rbl.db
Dataset Pathname: rbl/pass1
Dataset Creation: Wed Feb 18 05:20:08 2015 by Log 7.0 B1

Gamma Ray Calibration Report

Serial Number:	110249	
Tool Model:	Probe	
Performed:	Tue Feb 03 05:05:05 2015	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.4000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	111206_7in	
Tool Model:	RBT-C3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	1102.008	ft

Master Calibration, performed Wed Feb 18 04:31:17 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.016	0.695	1.500	62.165	89.346	0.080
CAL	0.015	0.682				
5'	0.015	0.653	1.500	62.165	95.024	0.073
SUM						
S1	0.007	0.686	0.000	100.000	147.208	-0.960
S2	0.016	0.696	0.000	100.000	147.111	-2.322
S3	0.015	0.696	0.000	100.000	146.987	-2.255
S4	0.016	0.701	0.000	100.000	145.931	-2.307
S5	0.015	0.703	0.000	100.000	145.467	-2.250
S6	0.016	0.699	0.000	100.000	146.317	-2.284
S7	0.015	0.695	0.000	100.000	147.052	-2.256
S8	0.016	0.694	0.000	100.000	147.566	-2.344

Internal Reference Calibration, performed Wed Feb 04 13:54:20 2015:

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.015	0.682	1.000	0.000

Air Zero Calibration, performed Wed Feb 18 04:30:31 2015:

	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: 111206_7in
Tool Model: RBT-C3
Performed: Tue Feb 10 09:12:34 2015

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

Gain: 0.77
Offset: 15.00
Delta Spacing 1

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Field	WATTENBERG		
County	WELD		
State	CO	Country	USA