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RADIAL SECTOR BOND LOG WITH GAMMA RAY

Company WIEPKING-FULLERTON
Well RAPTOR 4
Field GREAT PLAINS
County LINCOLN
State CO

Company	**WIEPKING-FULLERTON ENERGY LLC**
Well	**RAPTOR 4**
Field	**GREAT PLAINS**
County	**LINCOLN** State **CO**
Location:	API # : 05073065130000 660' FNL & 660' FEL NENE SEC 18 TWP 10S RGE 55W
Other Services	NONE
Permanent Datum	GL Elevation 5195
Log Measured From	KB
Drilling Measured From	KB
Elevation	K.B. 5208 D.F. 5207 G.L. 5195

Date of Service	NOVEMBER 24, 2014
Run Number	ONE
Depth Driller or PBTD	8025
Depth Logger	7948
Bottom Log Interval	7947
Top Log Interval	2800
Open Hole Size	7+7/8"
Type Fluid	WATER
Fluid Level	550
Fluid Density	8.33 PPG
Max. Recorded Temperature	NA
Max. Wellhead Pressure	0
Wellhead Connection	NA
Estimated Cement Top	2926
Unit Number	96
Wireline Size	1/4"
Location	FT MORGAN, CO
Recorded By	SCHUMAN
Witnessed By	MR TIM HERIEN

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8+5/8"	24#	SURFACE	315
Production Casing	5+1/2"	17#	SURFACE	8020
Liner Record				

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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.

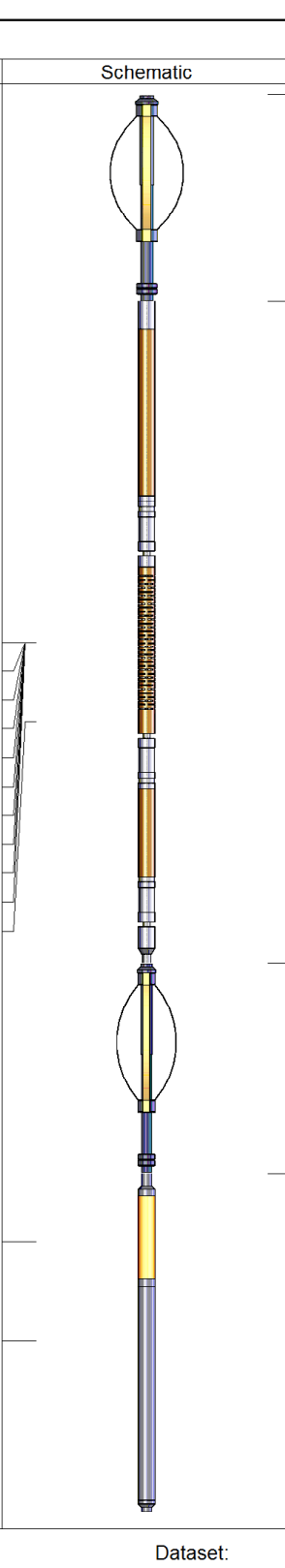
Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
S.O.# 2-280086

THANK YOU FOR USING PIONEER ENERGY SERVICES

Your Pioneer ENERGY Services Crew
Engineer: SHAUN
Operator: BRIAN
Operator: MATT
Operator:

Tool Data - Services	Serial Number
Sector CBL	130434
GR	111211

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
			CSS_MID	2.79	3.00	36.00
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 2.30		GR_CCL-Probe (110249) Probe Gamma CCL	4.54	2.75	100.00

Dataset: raptor 4.db: field/well/rbl/pass1
Total Length: 19.08 ft
Total Weight: 226.00 lb
O.D. 3.00 in

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MAIN LOG

LOGGED WITH 0 PSI APPLIED AT SURFACE

Database File: raptor 4.db
Dataset Pathname: rbl/merge1
Presentation Format: scbl02
Dataset Creation: Mon Nov 24 11:10:18 2014
Charted by: Depth in Feet scaled 1:240

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MAIN LOG

LOGGED WITH 0 PSI APPLIED AT SURFACE

Database File: raptor 4.db
Dataset Pathname: rbl/merge1
Presentation Format: scbl02
Dataset Creation: Mon Nov 24 11:10:18 2014
Charted by: Depth in Feet scaled 1:240

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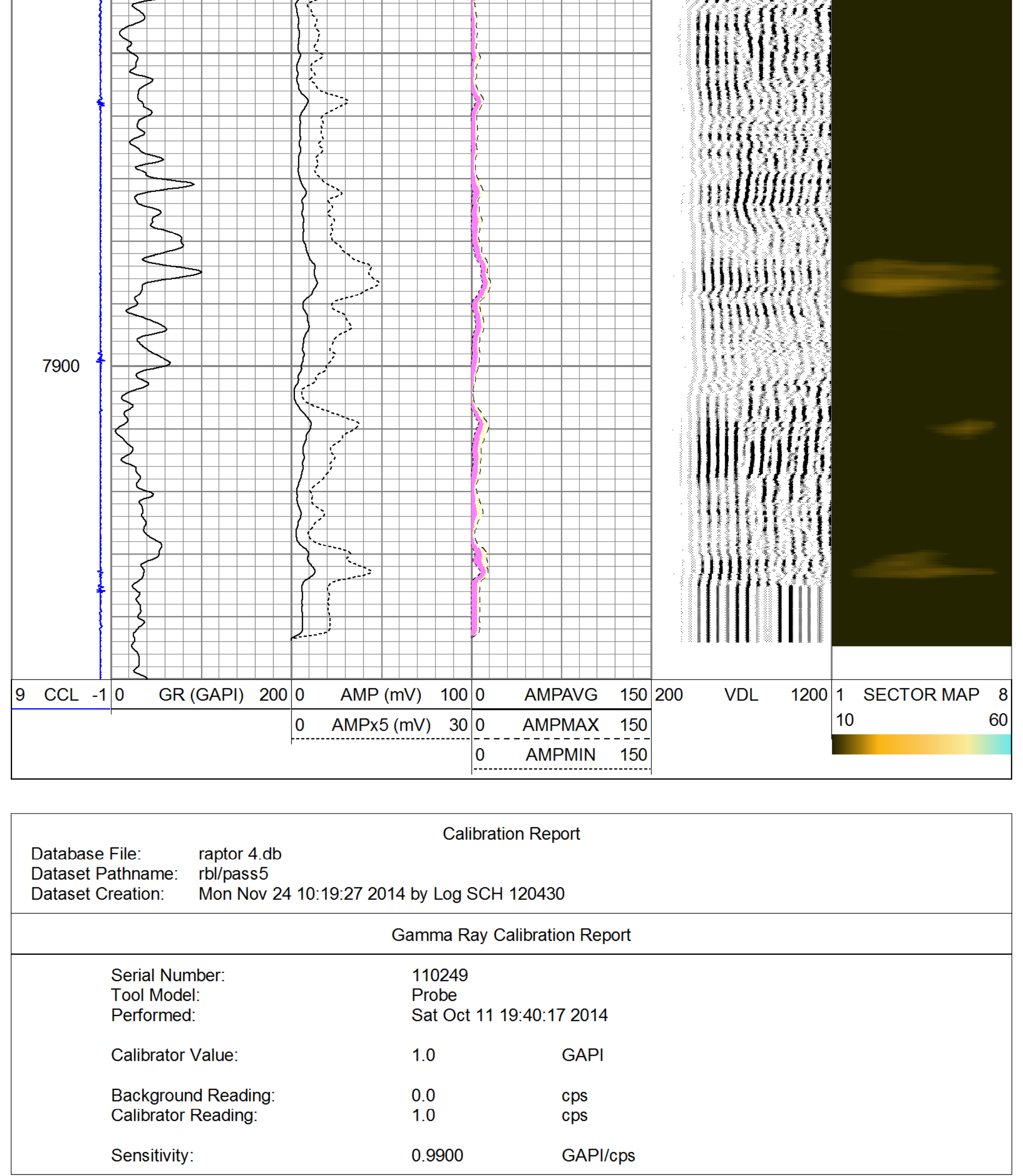
REPEAT PASS

Database File: raptor 4.db
Dataset Pathname: rbl/pass3
Presentation Format: scbl02
Dataset Creation: Mon Nov 24 09:29:00 2014 by Log SCH 120430
Charted by: Depth in Feet scaled 1:240



Calibration Report

Database File: raptor 4.db
Dataset Pathname: rbl/pass5
Dataset Creation: Mon Nov 24 10:19:27 2014 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	110249	
Tool Model:	Probe	
Performed:	Sat Oct 11 19:40:17 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.9900	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	130434	
Tool Model:	Probe	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	-129.042	ft

Master Calibration, performed Mon Nov 24 08:52:19 2014:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.015	0.743	1.000	71.921	128.000	-0.460
CAL	0.015	0.752				
5'	0.014	0.659	1.000	71.921	109.970	-0.581
SUM						
S1	0.045	0.725	0.000	100.000	147.021	-6.595
S2	0.015	0.725	0.000	100.000	140.792	-2.097
S3	0.015	0.721	0.000	100.000	141.728	-2.147
S4	0.015	0.739	0.000	100.000	138.094	-2.116
S5	0.015	0.735	0.000	100.000	138.796	-2.060
S6	0.015	0.738	0.000	100.000	138.217	-2.011
S7	0.015	0.734	0.000	100.000	139.029	-2.064
S8	0.015	0.733	0.000	100.000	139.249	-2.033

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	0.015	0.752	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

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