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Pioneer Energy Services

RADIAL BOND LOG
SECTOR MAP/VDL
GAMMA RAY/CCL

Company ANADARKO PETROLEUM CORP.
Well RISSLER STATE 4N-36HZ
Field WATTENBERG
Parish
State COLORADO

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Location:
API # : 05-123-39977
LAT: 40.263314 LONG: -104.727788
SEC 36 TWP 4N RGE 66W

Other Services
NONE

Permanent Datum GROUND LEVEL Elevation 4862'
Log Measured From KELLY BUSHING
Drilling Measured From 25'

Elevation
K.B. 4887'
D.F.
G.L. 4862'

Date	19-FEBRUARY-2015	
Run Number	ONE	
Depth Driller	12582'	
Depth Logger	6600'	
Bottom Logged Interval	6600'	
Top Log Interval	SURFACE	
Open Hole Size	7 7/8"	
Type Fluid	WATER	
Density / Viscosity	N/A	
Max. Recorded Temp.	N/A	
Estimated Cement Top	60'	
Time Well Ready	15:00	
Time Logger on Bottom	15:30	
Equipment Number	53	
Location	FT MORGAN	
Recorded By	TIM REESE	
Witnessed By	DARREL B.	

Borehole Record			Tubing Record			
Run Number	Bit	From	To	Size	Weight	From	To

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9 5/8"	36#	SURFACE	1171'
Prot. String				
Production String	7"	26#	SURFACE	7836'
Liner	4 1/2"	11.6#	6635'	12582'

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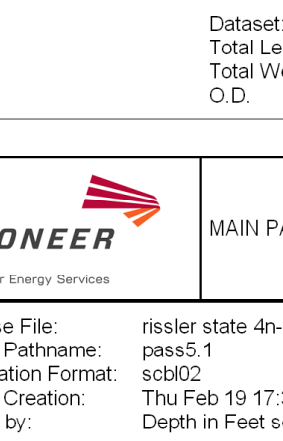
All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not be liable or responsible for any loss, costs, damages,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

Comments

THANKYOU FOR USING PIONEER ENERGY



Sensor	Offset (ft)	Description	Len (ft)	OD (in)	Wt (lb)
		STNDRD Standard Cable Head	1.00	1.69	10.00
		CSS_MID	2.79	3.00	36.00
TEMP	13.86				
		RBT-RBTC3 (111206)	9.33	2.75	90.00
WVF3FT	11.63				
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	2.30	GR_CCL-Probe (111211) Probe Gamma CCL	4.54	2.75	100.00

Dataset: rissler state 4n-36hz.db: field/well/run1/pass5
Total Length: 20.50 ft
Total Weight: 236.00 lb
O.D. 3.00 in

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MAIN PASS WELL LOGGED UNDER 2800 PSI

Database File: rissler state 4n-36hz.db
Dataset Pathname: pass5.1
Presentation Format: scbl02
Dataset Creation: Thu Feb 19 17:34:02 2015 by Calc SCH 120430
Charted by: Depth in Feet scaled 1:240

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MAIN PASS WELL LOGGED UNDER 2800 PSI

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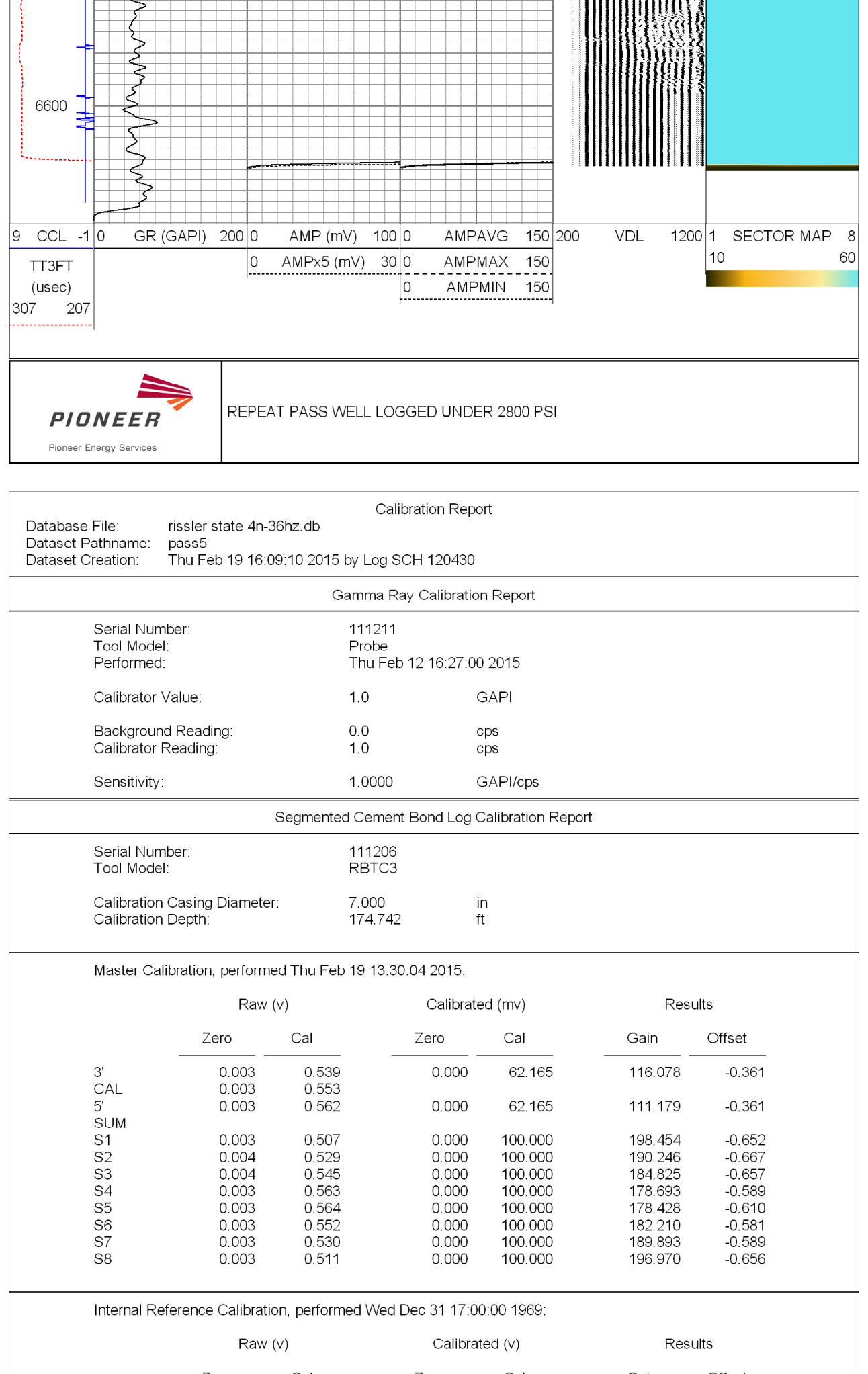
REPEAT PASS WELL LOGGED UNDER 2800 PSI

Database File:	rissler state 4n-36hz.db
Dataset Pathname:	pass3.1
Presentation Format:	scbl02
Dataset Creation:	Thu Feb 19 17:47:51 2015 by Calc SCH 120430
Charted by:	Depth in Feet scaled 1:240



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REPEAT PASS WELL LOGGED UNDER 2800 PSI

Calibration Report

Database File:	rissler state 4n-36hz.db
Dataset Pathname:	pass5
Dataset Creation:	Thu Feb 19 16:09:10 2015 by Log SCH 120430

Gamma Ray Calibration Report

Serial Number:	111211	
Tool Model:	Probe	
Performed:	Thu Feb 12 16:27:00 2015	
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:	111206	
Tool Model:	RBTC3	
Calibration Casing Diameter:	7.000	in
Calibration Depth:	174.742	ft

Master Calibration, performed Thu Feb 19 13:30:04 2015:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.003	0.539	0.000	62.165	116.078	-0.361
CAL	0.003	0.553				
5'	0.003	0.562	0.000	62.165	111.179	-0.361
SUM						
S1	0.003	0.507	0.000	100.000	198.454	-0.652
S2	0.004	0.529	0.000	100.000	190.246	-0.667
S3	0.004	0.545	0.000	100.000	184.825	-0.657
S4	0.003	0.563	0.000	100.000	178.693	-0.589
S5	0.003	0.564	0.000	100.000	178.428	-0.610
S6	0.003	0.552	0.000	100.000	182.210	-0.581
S7	0.003	0.530	0.000	100.000	189.893	-0.589
S8	0.003	0.511	0.000	100.000	196.970	-0.656

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	0.553	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

Temperature Calibration Report

Serial Number:	111206	
Tool Model:	RBTC3	
Performed:	Wed Jun 18 08:24:08 2014	
	Reference	Reading
Low Reference:	67.60 degF	71.92 cps
High Reference:	275.00 degF	311.96 cps
Gain:	0.86	
Offset:	5.46	
Delta Spacing	1	

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Company	ANADARKO PETROLEUM CORP.
Well	RISSLER STATE 4N-36HZ
Field	WATTENBERG
County	
State	COLORADO