Radial Cement Bond
Gamma Ray
Casing Collar Log

RELIANCE OILFIELD SERVICES

Company TEP Rocky Mountain LLC
Well Tri State Trucking PA 541-26
Field Parachute
County Garfield
State Colorado

Company	TEP Rocky Mountain LLC
Well	Tri State Trucking PA 541-26
Field	Parachute
County	Garfield
State	Colorado

Location: API # : 05-045-23651

2285' FNL & 1887' FWL SENW

SEC 25 TWP 6S RGE 95W

Other Services

Permanent Datum	Ground Level	Elevation	5224'
Log Measured From	Kelly Bushing	24 FT	
Drilling Measured From	Kelly Bushing		

Elevation
K.B. 5248'
D.F. 5247'
G.L. 5224'

Date	17-JAN-2018		
Run Number	One		
Depth Driller	8587 FT		
Depth Logger	8482 FT		
Bottom Logged Interval	8482 FT		
Top Log Interval	Surface		
Open Hole Size	8.75"		
Type Fluid	Fresh Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	234°F		
Estimated Cement Top	See Log		
Time Well Ready	R.O.A.		
Time Logger on Bottom	08:45		
Equipment Number	HD-359		
Location	Grand Junction, CO		
Recorded By	J.Donnelly		
Witnessed By	D. Welsh		

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

Casing Record	Size (in)	Wgt (lbs/Ft)	Grade	Top	Bottom
Surface Casing	9 5/8	32.3	H-40	Surface	1141 FT
Intermediate #1	4 1/2	11.6	P-110	Surface	8546 FT
Intermediate #2					
Liner					

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, 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. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

Log ran per customer request
Depth referenced to Kelly Bushing at 24 FT
Marker Joint from 4654 FT to 4675 FT
Log ran from 8482 FT to Surface
Log ran with 0 PSI Surface Induced Pressure

Thank you for choosing Reliance Oilfield Services, LLC!!

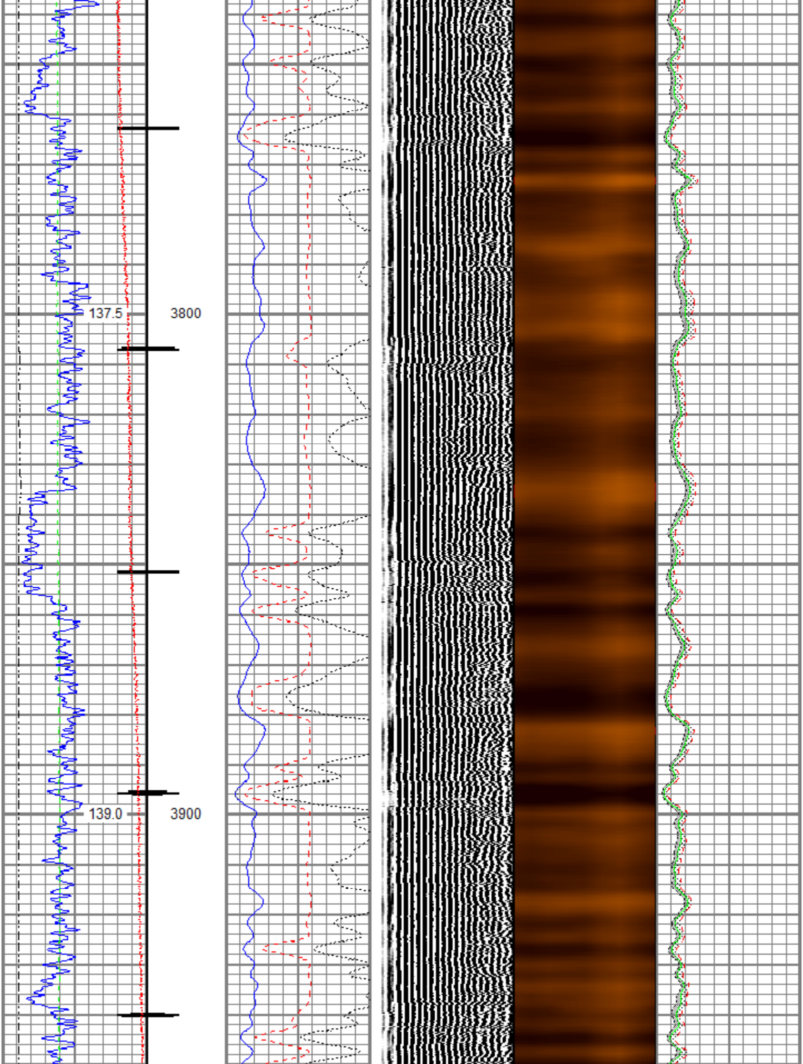
RELIANCE OILFIELD SERVICES

Main Pass

Recorded with 0 PSI Surface Induced Pressure

Database File	tep_tri state trucking pa 541-26_rbl_01-17-18\processed_tep_tri state trucking pa 541-26_rbl_01-17-18.db
Dataset Pathname	main.1
Presentation Format	ros_rbt004_tep
Dataset Creation	Wed Jan 17 15:20:27 2018
Charted by	Depth in Feet scaled 1:240

Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 200		0 (mV) 100	200 1200	10 110	0 150
Casing Collar Locator		3' Amplitude x 5			MimimumAmplitude
Line Speed		0 (mV) 20			0 150
-150 (ft/min) 150		3' Travel Time			MaximumAmplitude
Line Tension		300 (usec) 200			0 150
0 (lb) 2000					
Temperature					
0 (degF) 20					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3800
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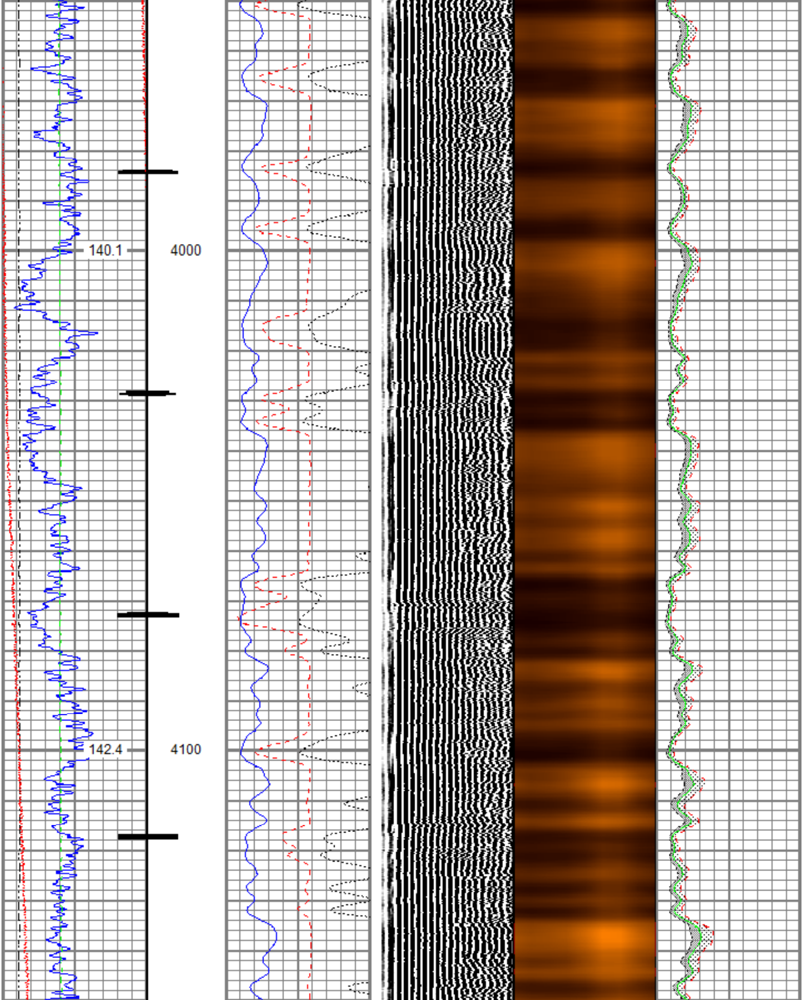
3900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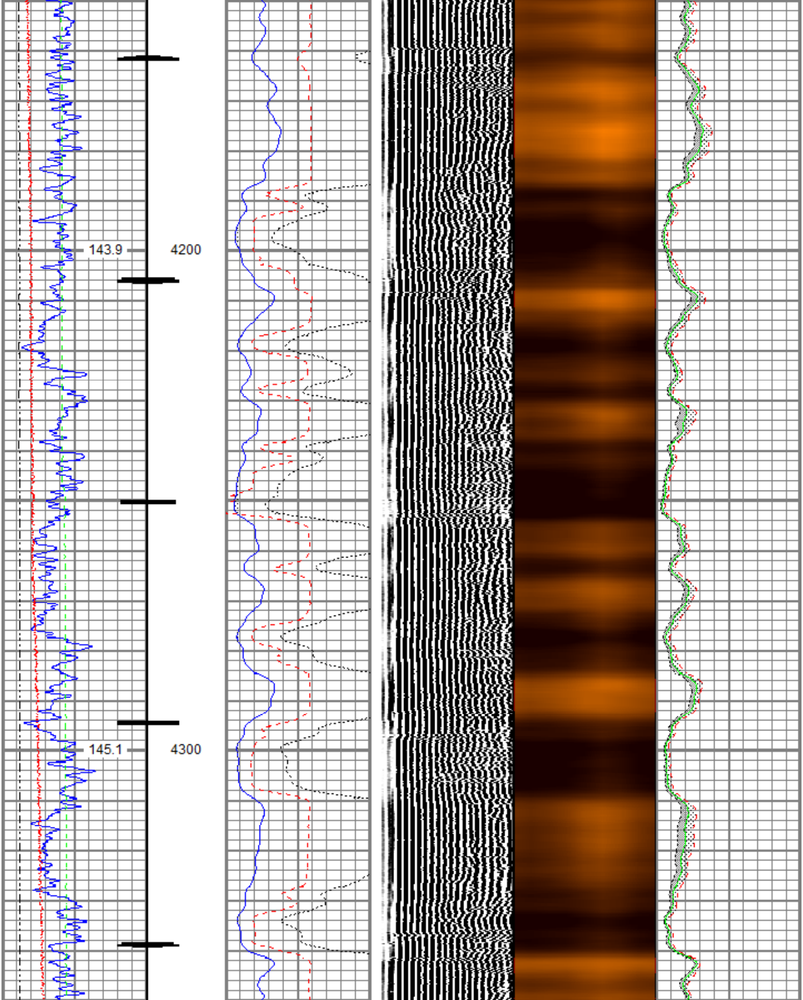
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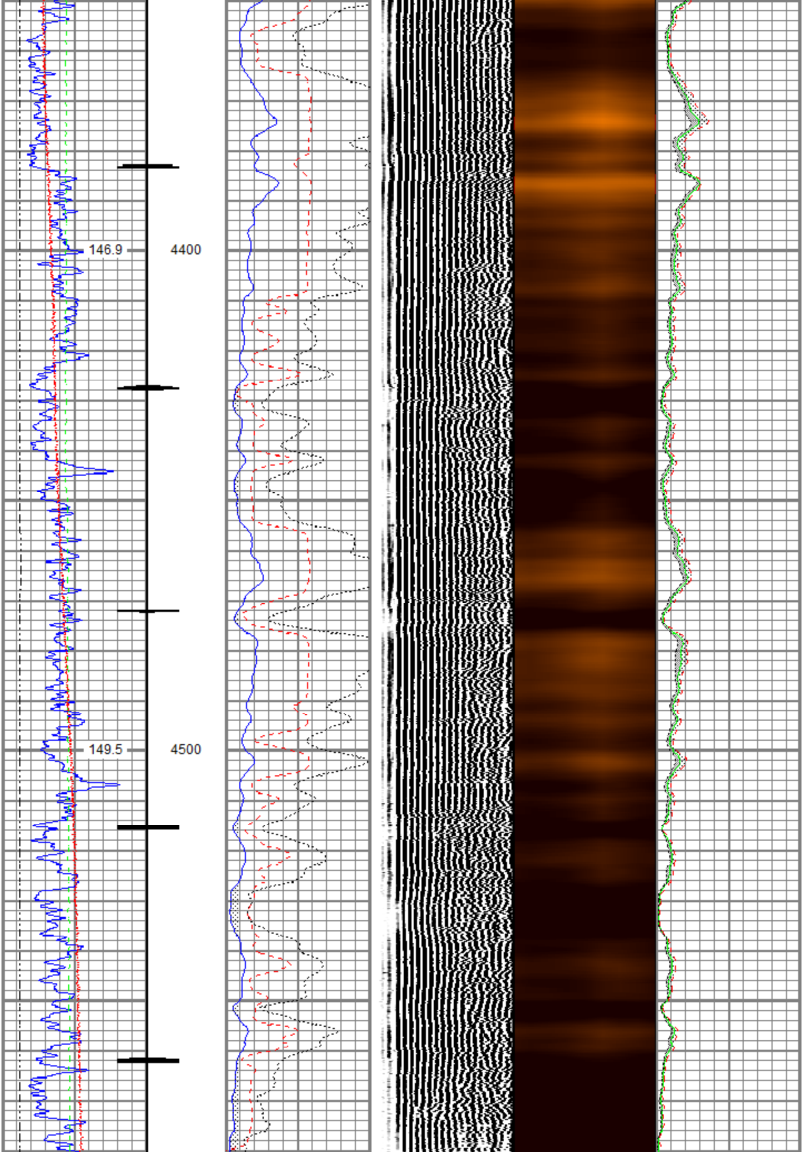
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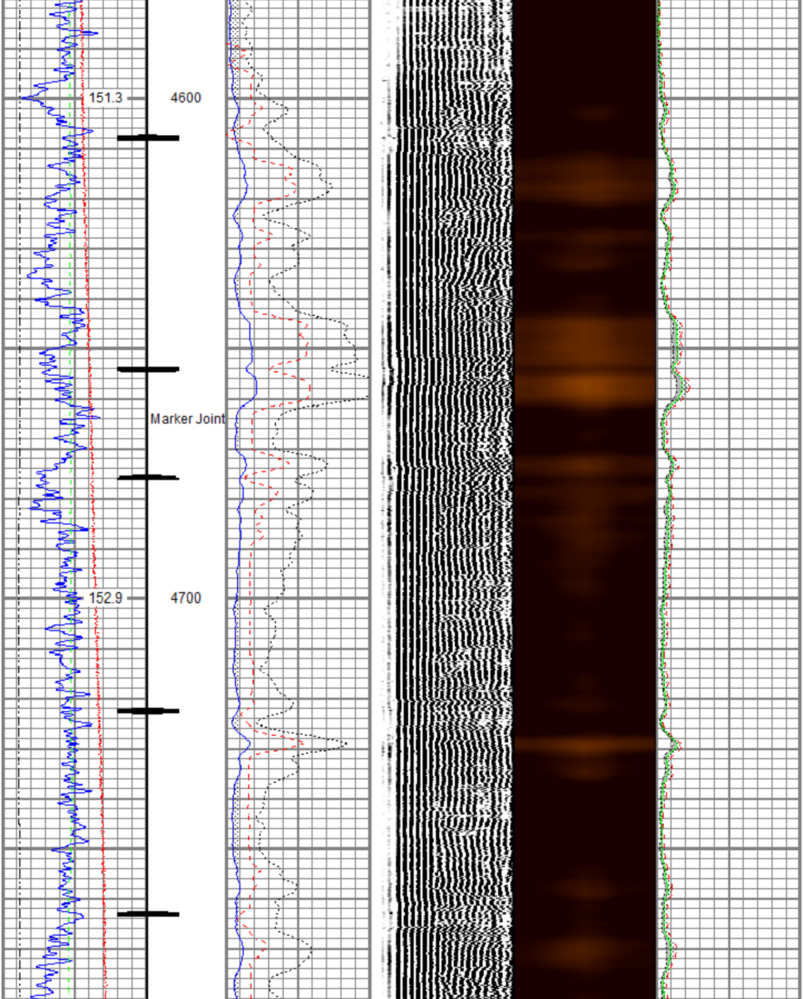
4500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Marker Joint
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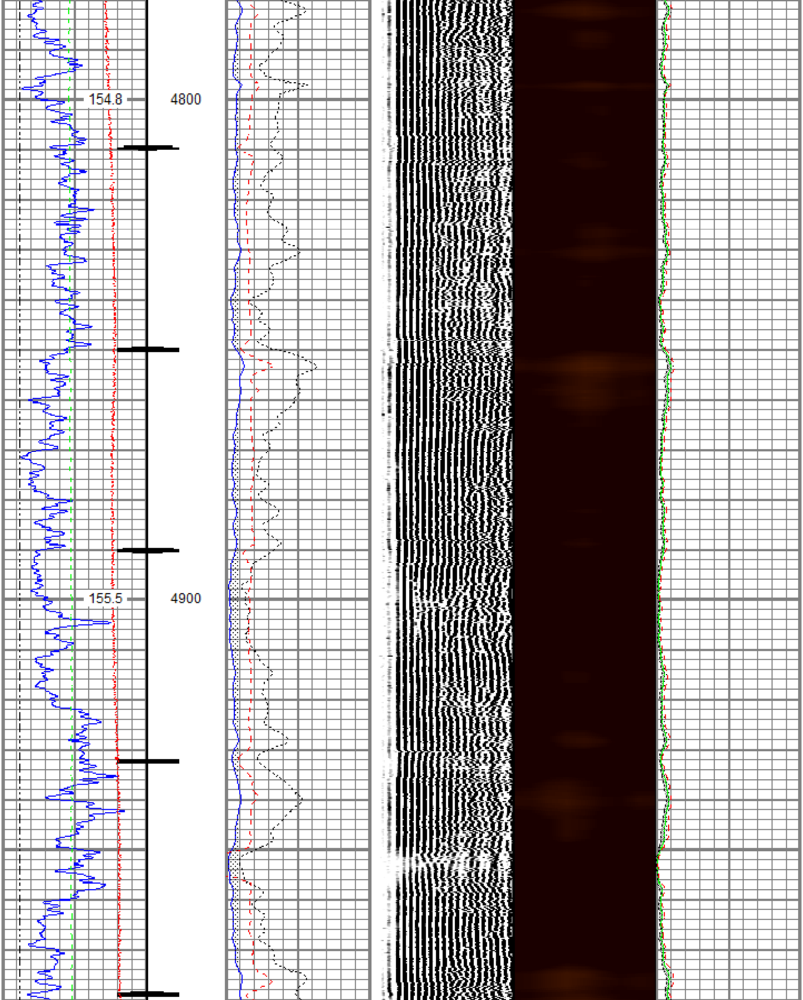
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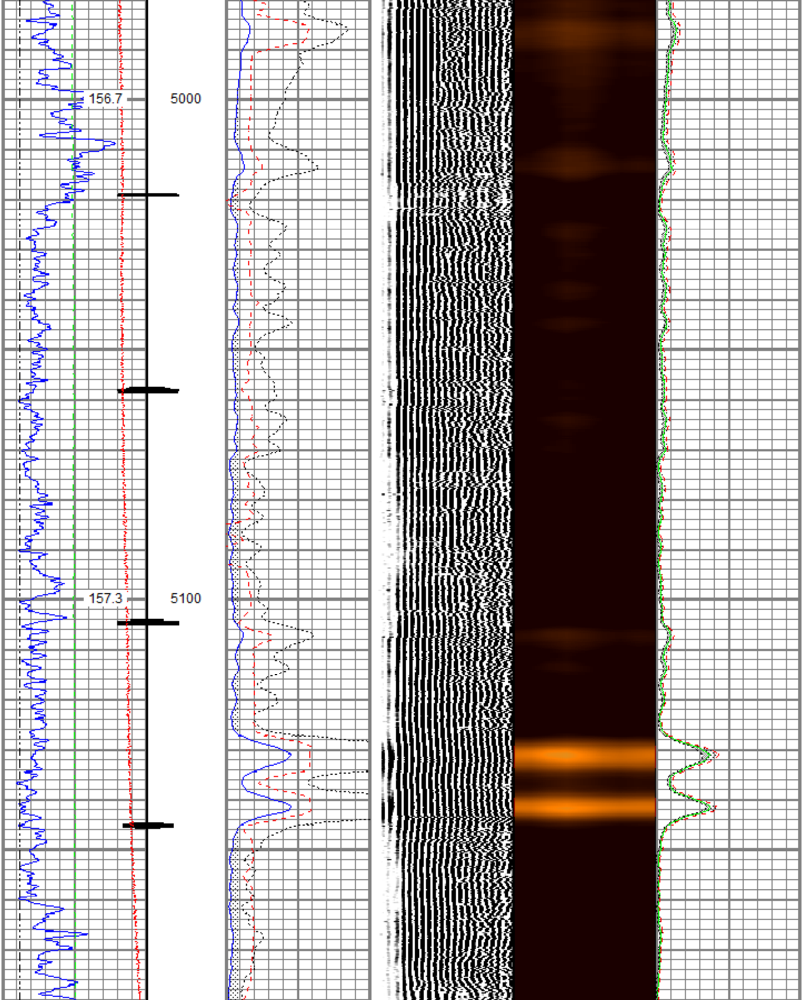
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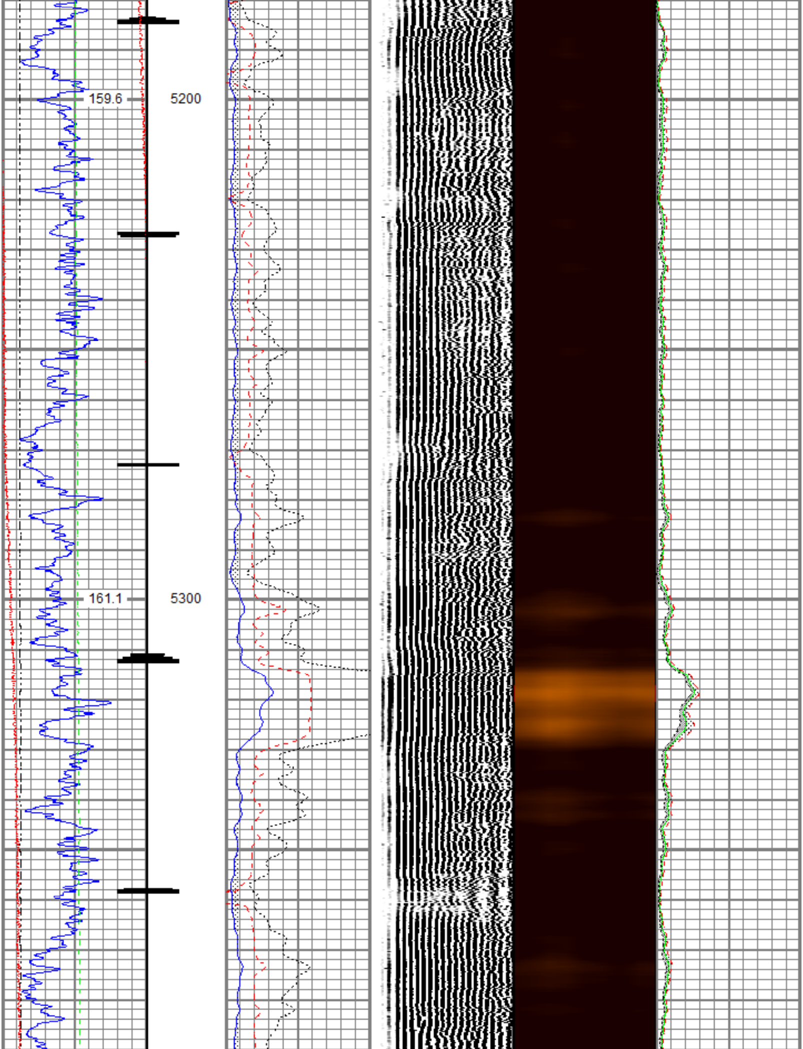
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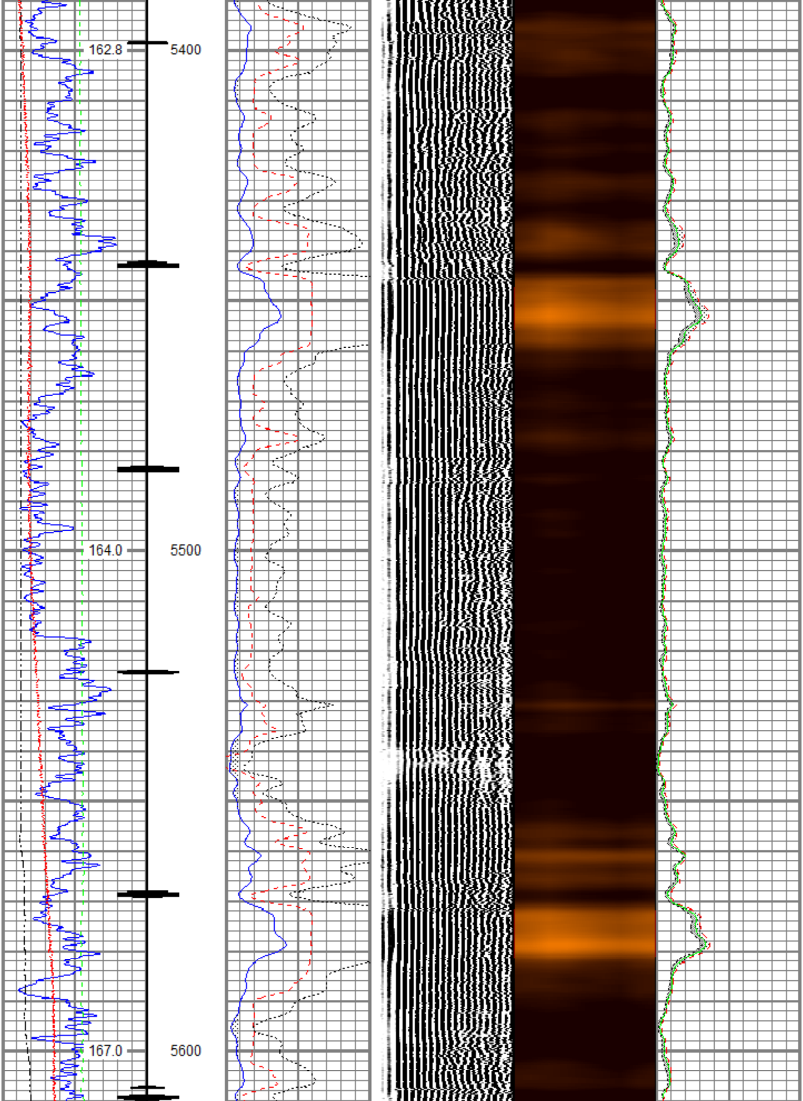
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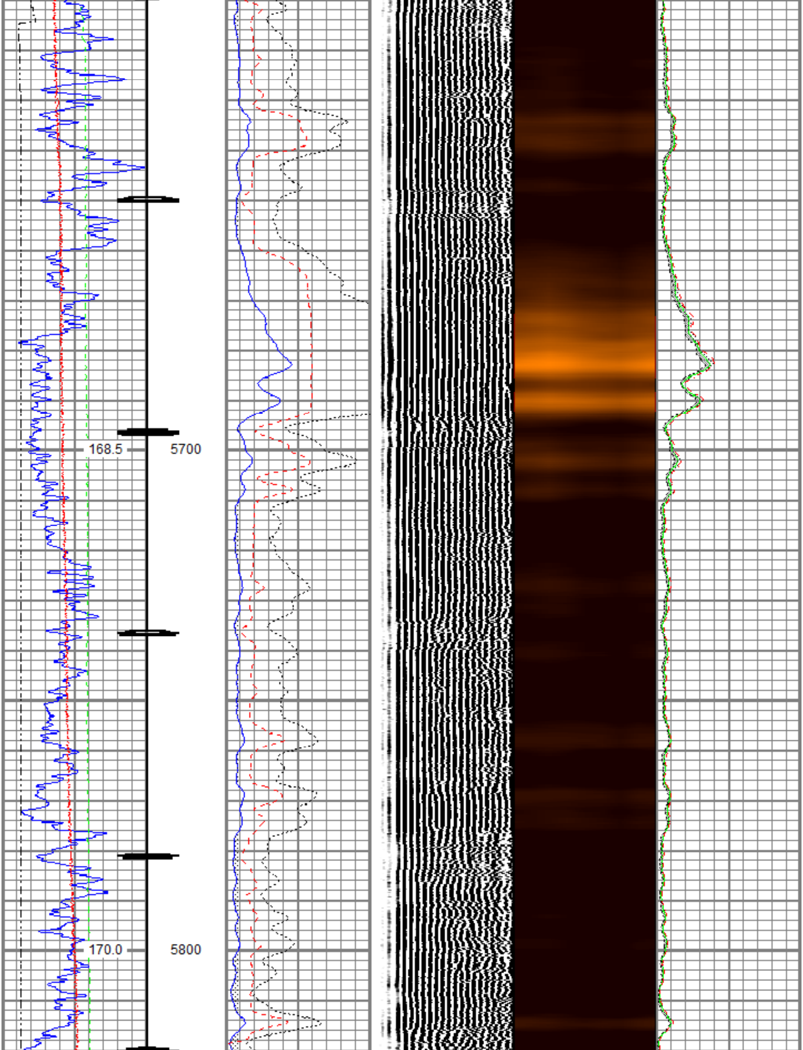
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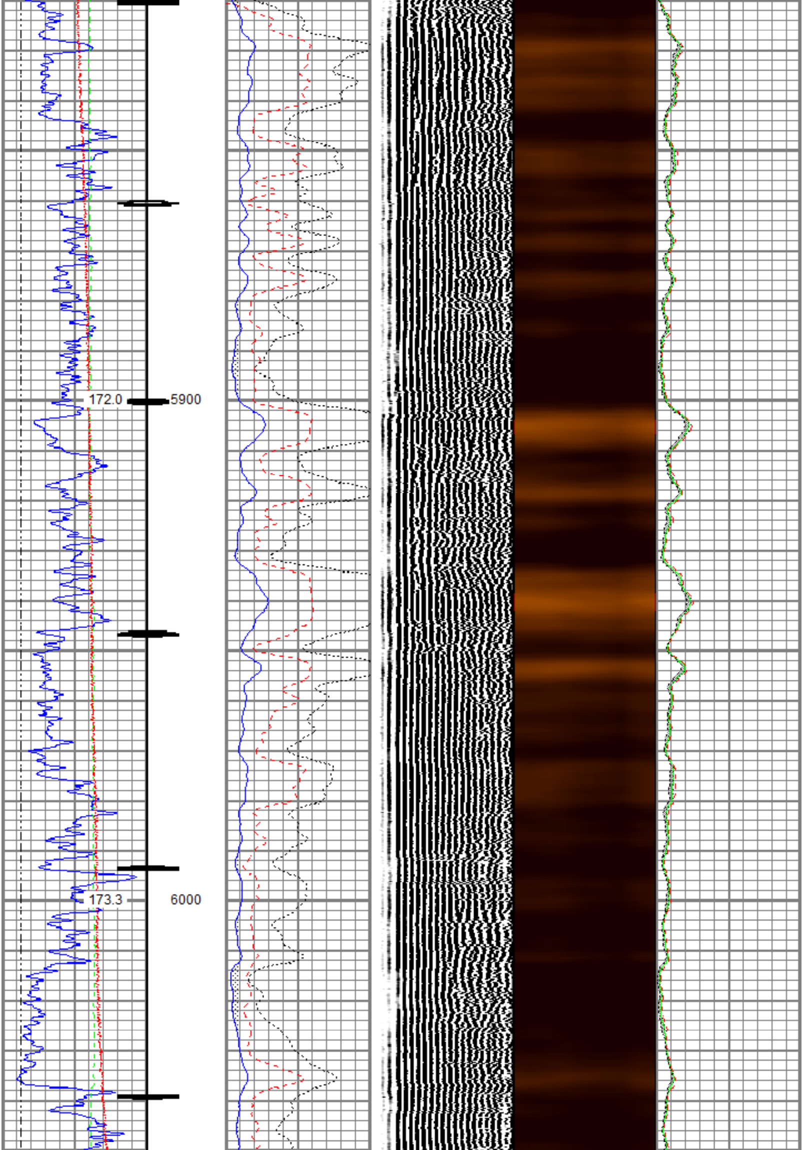
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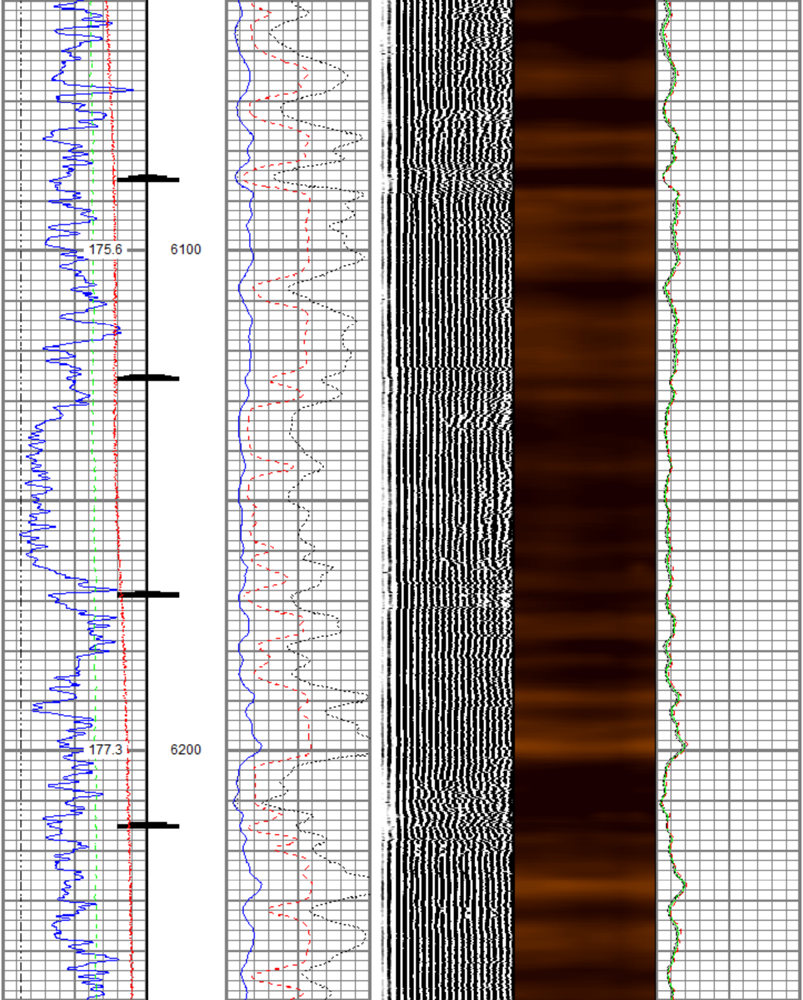
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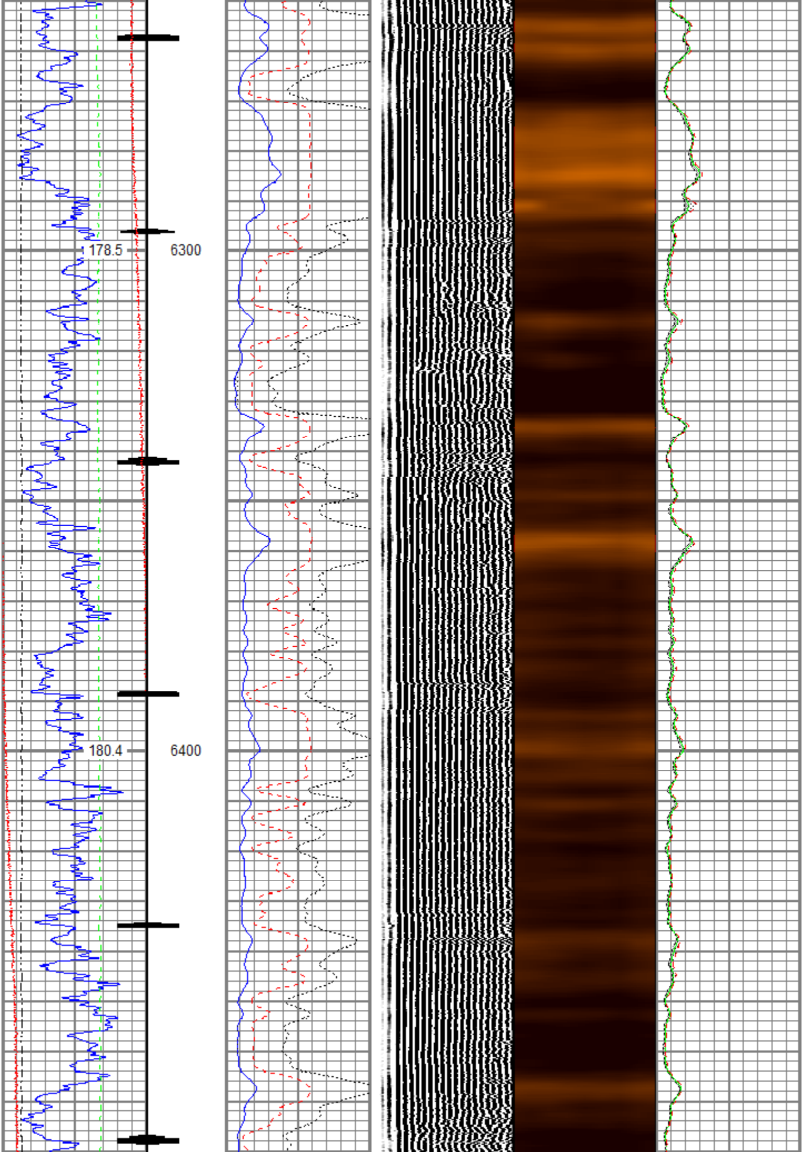
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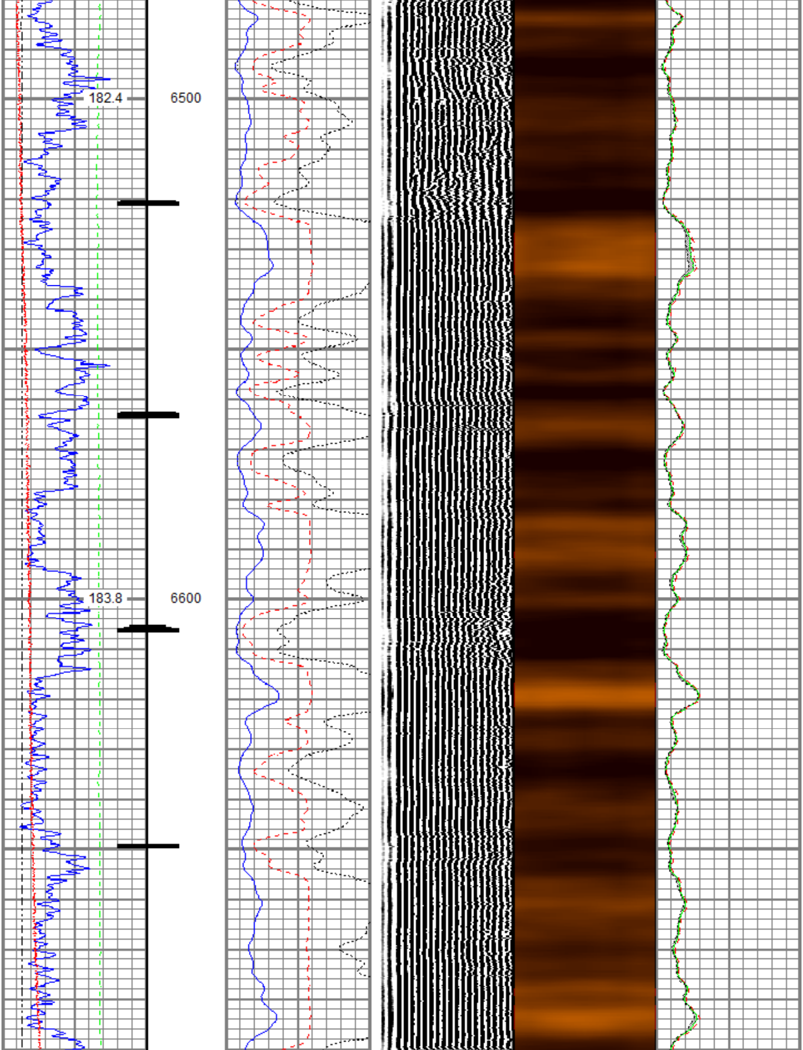
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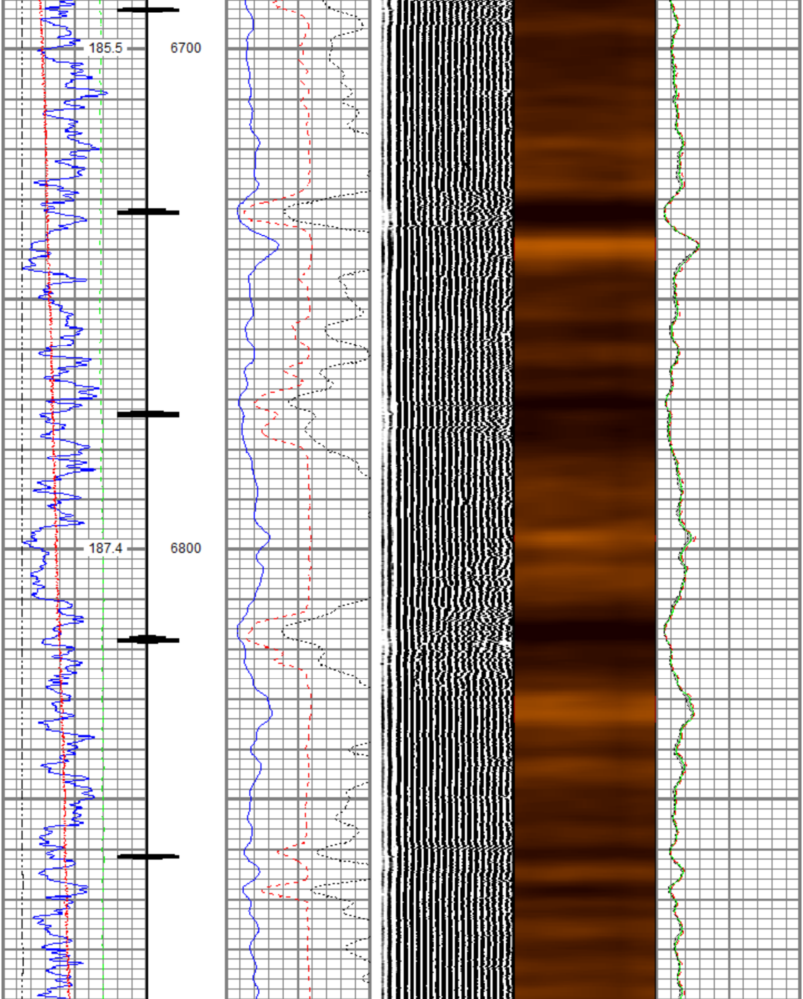
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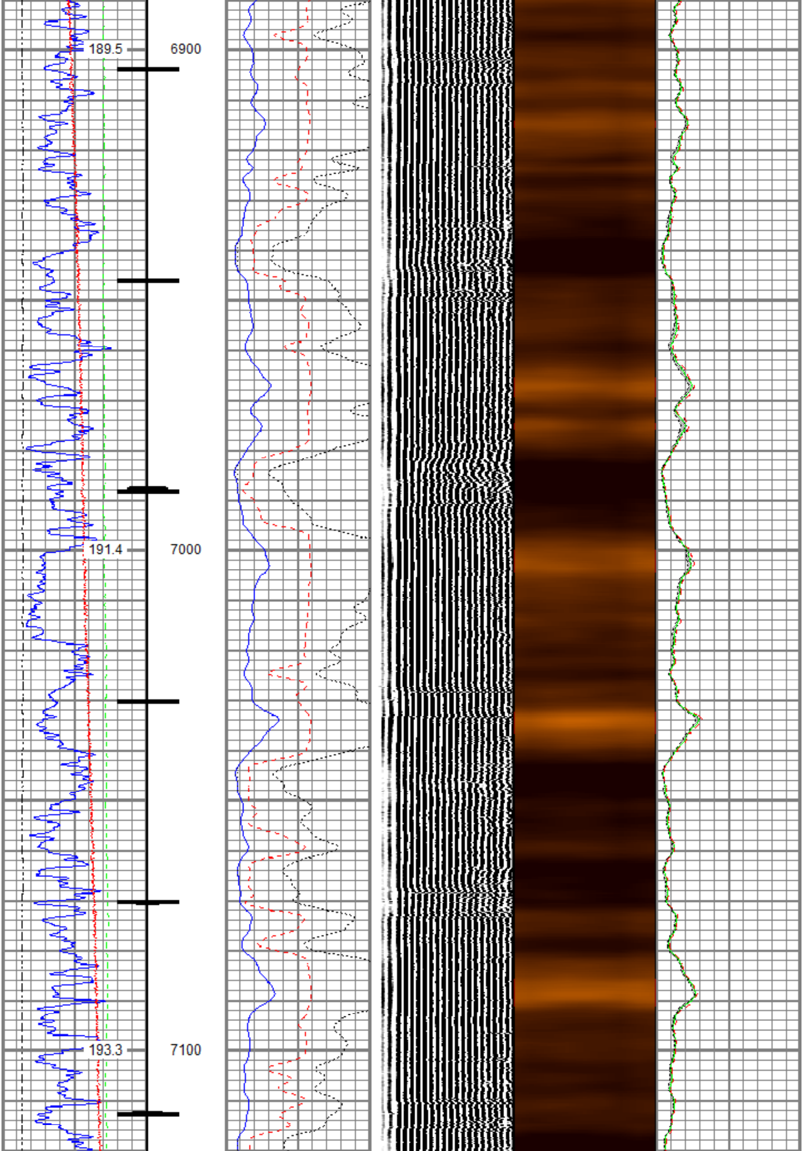
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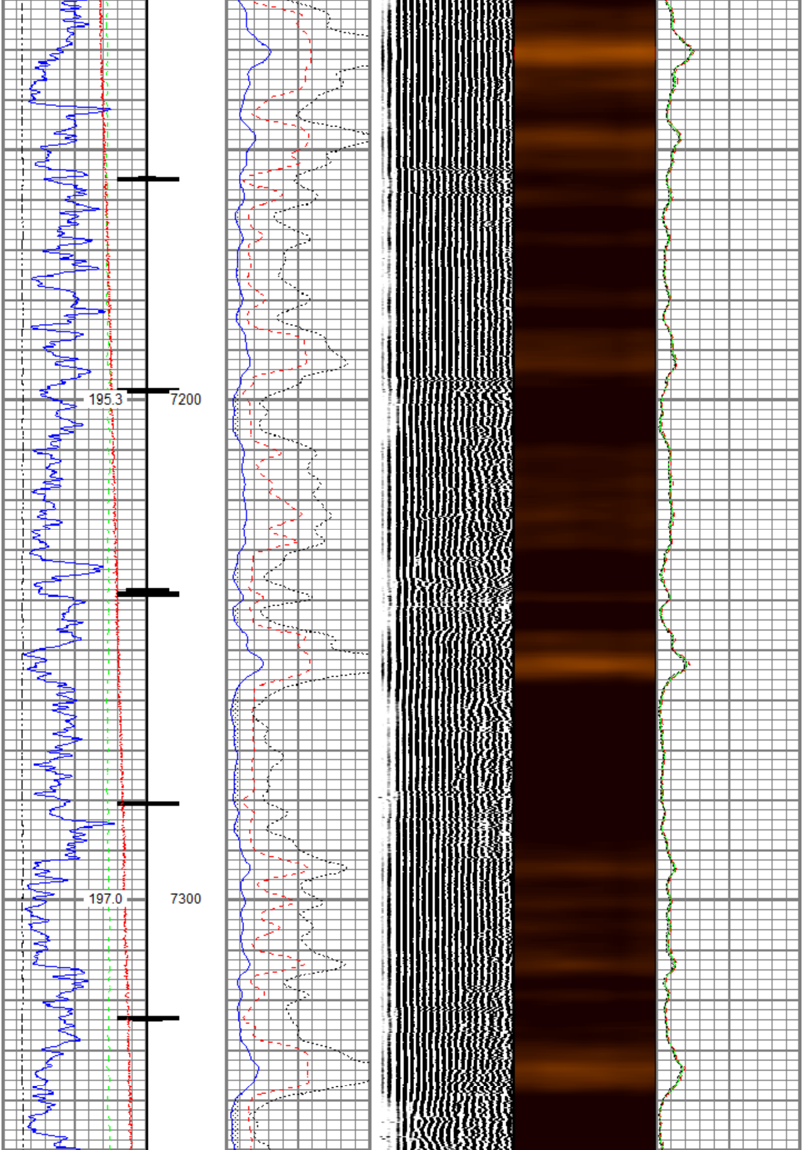
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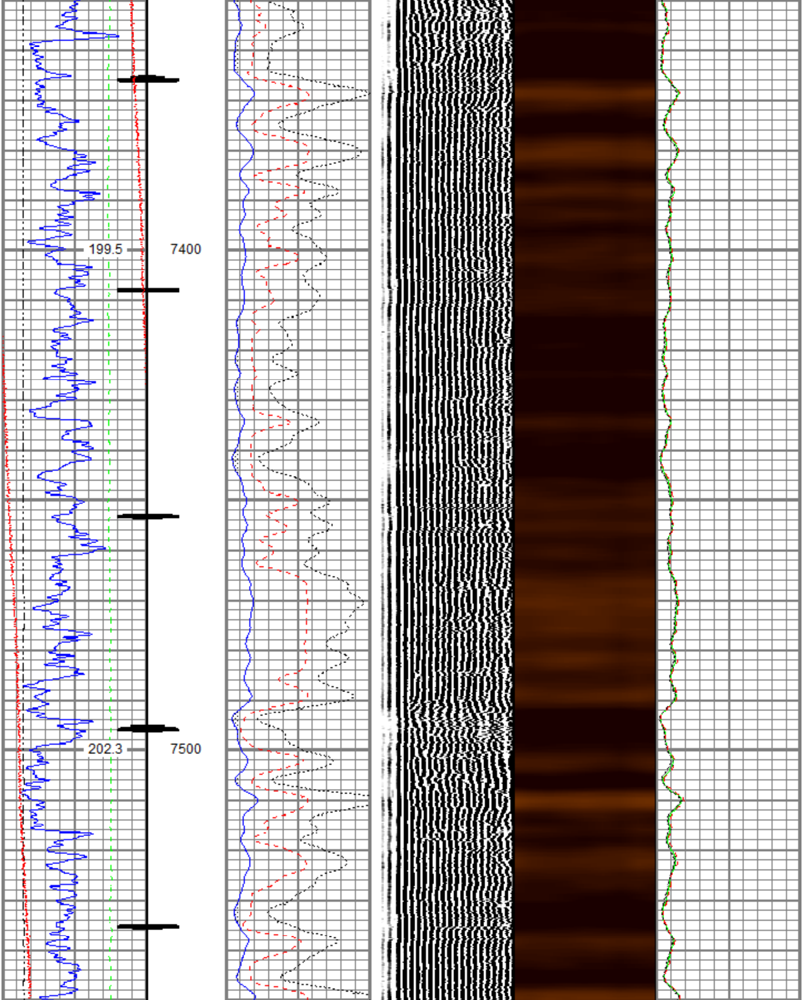
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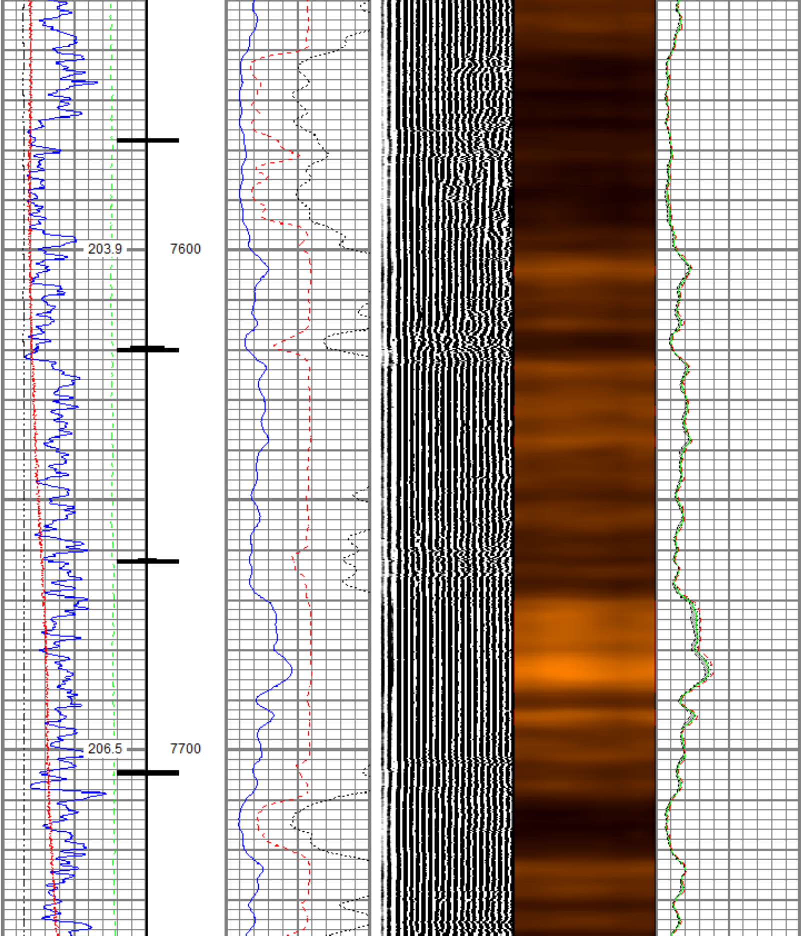
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206.5
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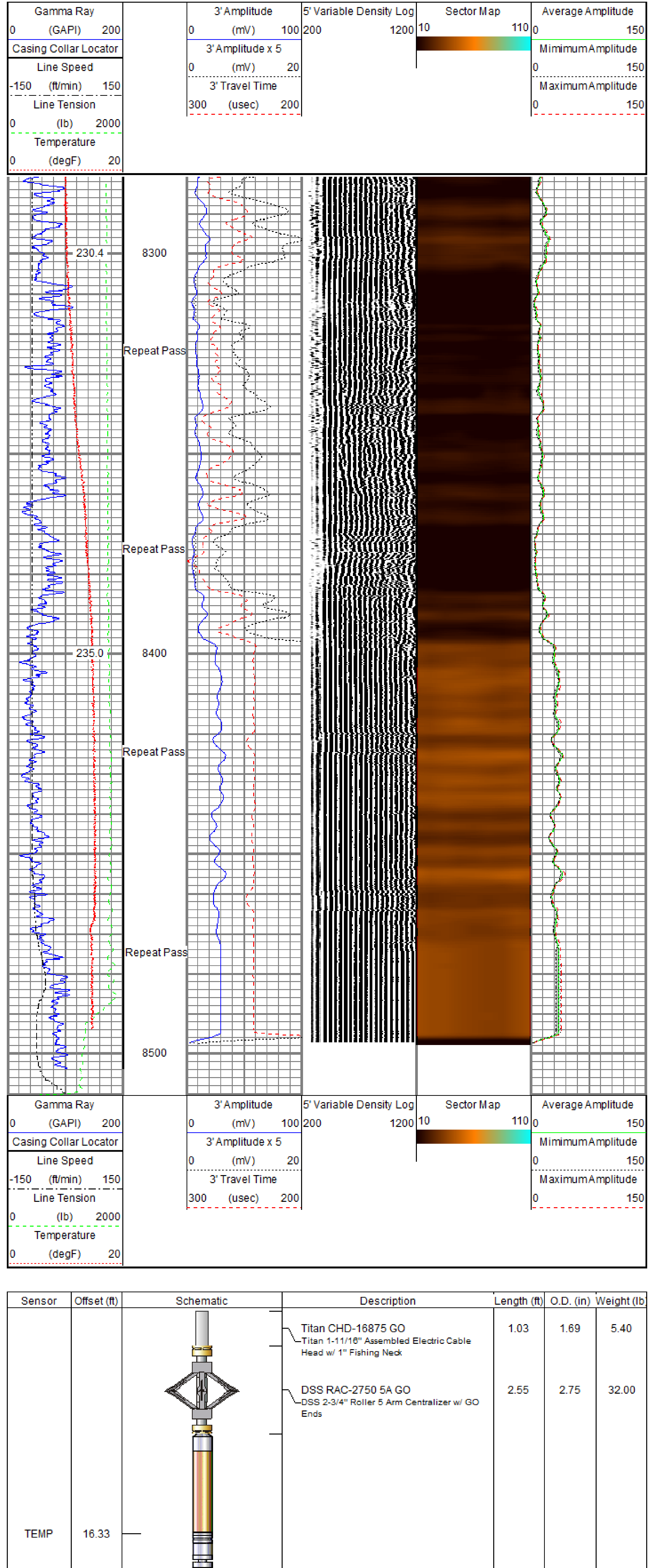
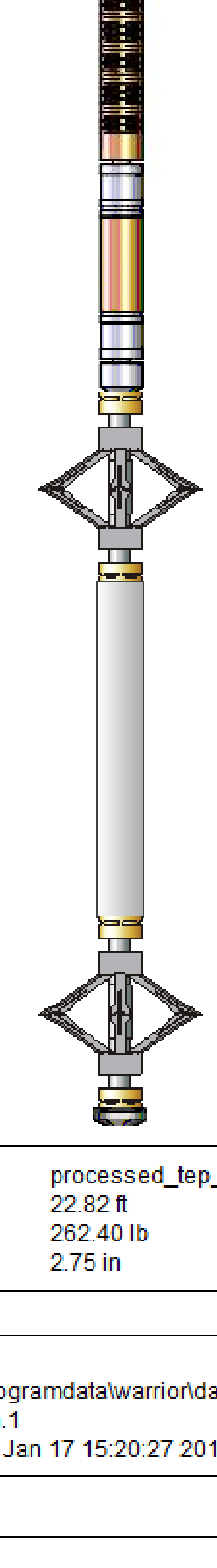
Repeat Pass

Recorded with 0 PSI Surface Induced Pressure

Database File	tep_tri state trucking pa 541-26_rbl_01-17-18\processed_tep_tri state trucking pa 541-26_rbl_01-17-18.db
Dataset Pathname	repeat.1
Presentation Format	ros_rbt004_tep
Dataset Creation	Wed Jan 17 15:35:13 2018
Charted by	Depth in Feet scaled 1:240





Sensor	Offset (ft)
TEMP	16.33
WVFS8	14.10
WVFS7	14.10
WVFS6	14.10
WVFS5	14.10
WVFS4	14.10
WVFS3	14.10
WVFS2	14.10
WVFS1	14.10
WVFCAL	14.10
WVF3FT	14.10
WVF5FT	13.10
CCL$2	6.42
CCL$1	6.42
GR	5.18

Description	Length (ft)	O.D. (in)	Weight (lb)
Titan CHD-16875 GO Titan 1-11/16" Assembled Electric Cable Head w/ 1" Fishing Neck	1.03	1.69	5.40
DSS RAC-2750 5A GO DSS 2-3/4" Roller 5 Arm Centralizer w/ GO Ends	2.55	2.75	32.00
Probe Radii-2750 RBT (FW1305-098) Probe 2-3/4" Radial Cement Bond Tool with Integral Temperature Sub	9.39	2.75	105.00
DSS RAC-2750 5A GO DSS 2-3/4" Roller 5 Arm Centralizer w/ GO Ends	2.55	2.75	32.00
Probe GR-CCL-2750 GOB (FW1307-038) Probe 2-3/4" rev.2 Digital Scintillation Gamma Ray/CCL Combined	4.51	2.75	55.00
DSS RAC-2750 5A GO DSS 2-3/4" Roller 5 Arm Centralizer w/ GO Ends	2.55	2.75	32.00
GO BN-14375 GO 1-7/16" Bull Nose with Go Box Top	0.25	1.44	1.00

Dataset: processed_tep_tri state trucking pa 541-26_rbl_01-17-18.db: field/well/run1/main.1
Total length: 22.82 ft
Total weight: 262.40 lb
O.D.: 2.75 in

Calibration Report

Database File	c:\programdata\warrior\data\tep_tri state trucking pa 541-26_rbl_01-17-18\processed_tep_tri state trucking pa
Dataset Pathname	main.1
Dataset Creation	Wed Jan 17 15:20:27 2018

Gamma Ray Calibration Report

Serial Number:	FW1307-038	
Tool Model:	2750 GOB	
Performed:	Sun Nov 12 12:44:12 2017	
Calibrator Value:	637.0	GAPI
Background Reading:	113.2	cps
Calibrator Reading:	1022.4	cps
Sensitivity:	0.7007	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1305-098	
Tool Model:	2750 RBT	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	33.745	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.003	0.858	0.800	81.196	93.387	1.058
CAL	-0.006	0.756				
5'	-0.035	0.639	0.800	81.196	119.229	5.024
SUM						
S1	-0.011	0.840	0.000	100.000	117.505	1.238
S2	-0.005	0.896	0.000	100.000	110.917	0.588
S3	-0.007	0.917	0.000	100.000	108.214	0.721
S4	-0.006	0.993	0.000	100.000	100.079	0.629
S5	-0.008	1.008	0.000	100.000	98.493	0.741
S6	-0.007	0.968	0.000	100.000	102.489	0.744
S7	-0.009	0.893	0.000	100.000	110.886	1.003
S8	-0.003	0.847	0.000	100.000	117.560	0.407

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	-0.006	0.756	1.000	0.000

Air Zero Calibration, performed Mon Jan 15 15:05:17 2018:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	-0.008	0.000	-0.000
5'	-0.003	0.000	0.001
SUM			
S1	-0.010	0.000	0.000
S2	-0.006	0.000	0.001
S3	-0.006	0.000	-0.000
S4	-0.006	0.000	0.000
S5	-0.005	0.000	0.000
S6	-0.005	0.000	0.000
S7	-0.005	0.000	-0.000
S8	-0.005	0.000	-0.000

Temperature Calibration Report

Serial Number:	FW1305-098	
Tool Model:	2750 RBT	
Performed:	Sun Nov 12 13:43:57 2017	
	Reference	Reading
Low Reference:	100.00 degF	109.43 degF
High Reference:	350.00 degF	405.87 degF
Gain:	0.84	
Offset:	7.72	
Delta Spacing	1	

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Field	Parachute
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State	Colorado