Radial Cement Bond Gamma Ray Casing Collar Log

Company	TEP Rocky Mountain LLC
Well	Leverich SR 524-13
Field	Rulison
County	Garfield
State	Colorado

Company TEP Rocky Mountain LLC
Well Leverich SR 524-13
Field Rulison
County Garfield State Colorado
Location: API #: 05-045-24567

Other Services

SEC 13 TWP 7S RGE 94W

Permanent Datum	Ground Level	Elevation 8007'	Elevation K.B. 8037' D.F. 8037' G.L. 8007'
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		

Date	27-JUL-2023
Run Number	One
Depth Driller	10583'
Depth Logger	10523'
Bottom Logged Interval	10516'
Top Log Interval	Surface
Open Hole Size	8.75"
Type Fluid	Water
Density / Viscosity	8.34 Lb/Gal
Max. Recorded Temp.	262°F
Estimated Cement Top	See Log
Time Well Ready	ROA
Time Logger on Bottom	13:15
Equipment Number	8102
Location	Grand Junction
Recorded By	E. Vaughn
Witnessed By	S. Bumgarner

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36	Surface	1175'
Prot. String				
Production String	4.5"	11.6	Surface	10583
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

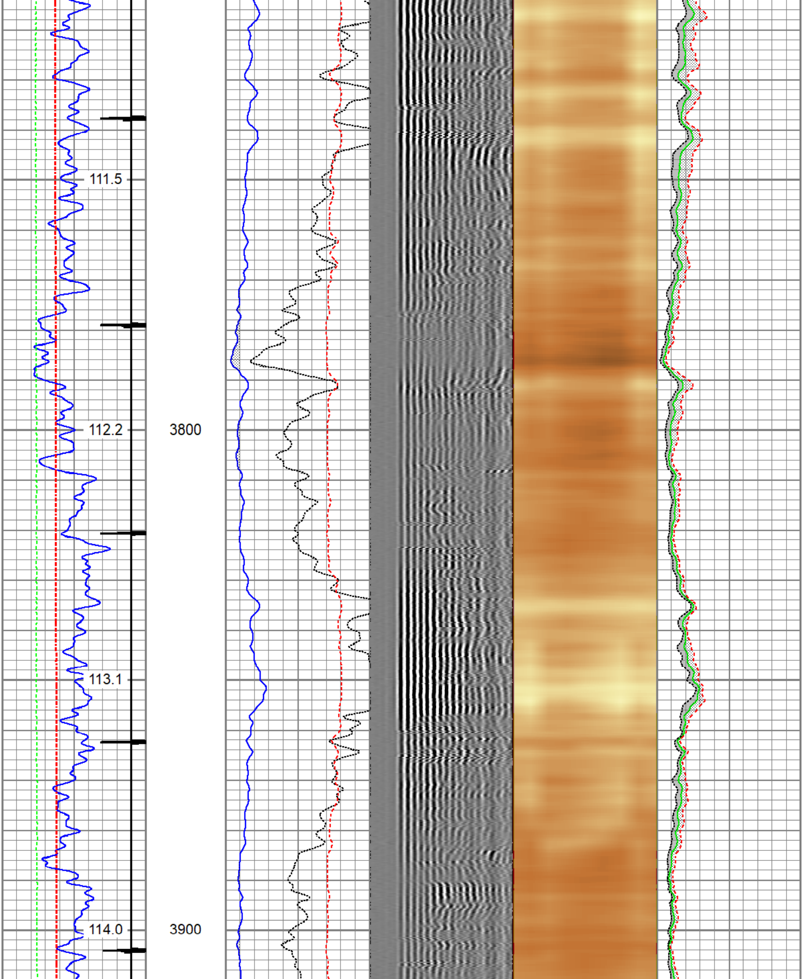
Log ran as per customer request
Depth referenced to Kelly Bushing at 30'
Marker joint logged @ 6564' - 6574'

Thank you for choosing The Wireline Group!

Main Pass 5" = 100'

Database File	tep_sr_524-13_rcbl.db
Dataset Pathname	main
Presentation Format	twgrcbl
Dataset Creation	Thu Jul 27 13:16:32 2023
Charted by	Depth in Feet scaled 1:240

Gamma Ray		3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150		0 (mV) 100	200 (usec) 1200		0 120
Line Tension		3' Amplitude x 5			Mimimum Amplitude
0 (lb) 4000		0 (mV) 20			0 120
-9 CCL$1 1		3' Travel Time			Maximum Amplitude
0 Temp (degF) 300		650 (usec) 150			0 120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112.2
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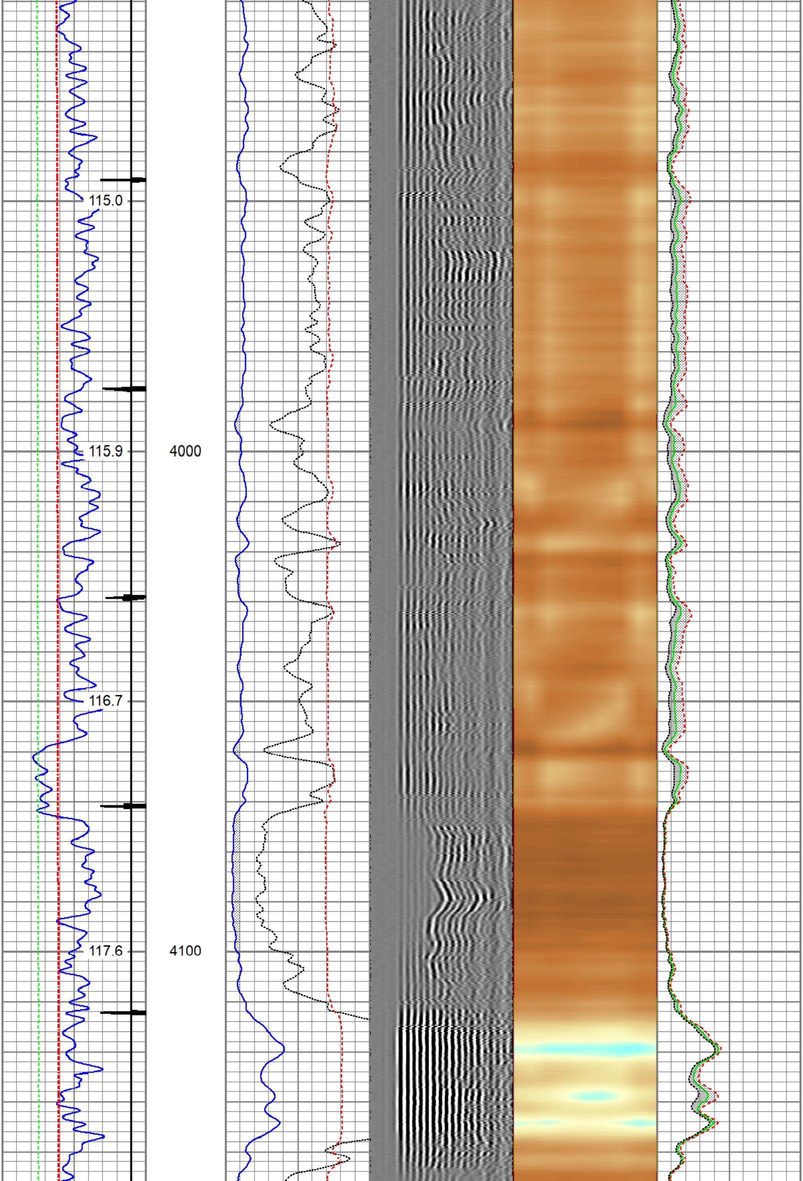
113.1
114.0
3900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115.9
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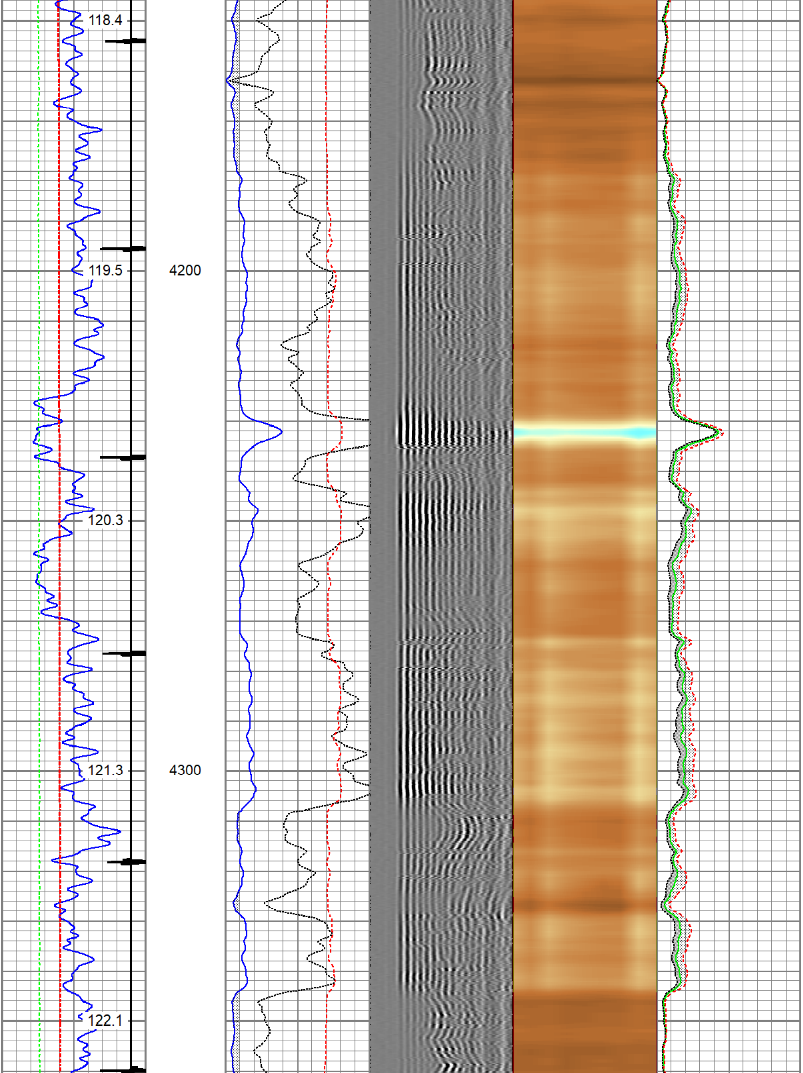
116.7
117.6
4100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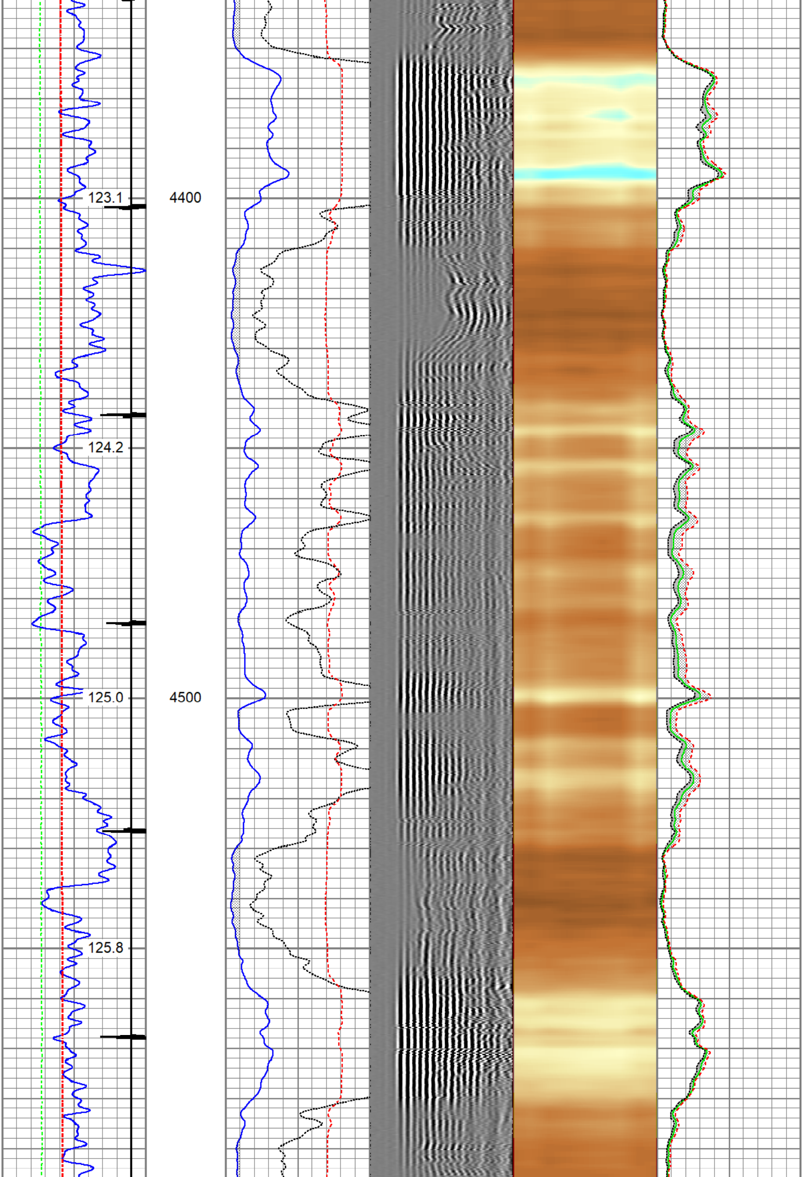
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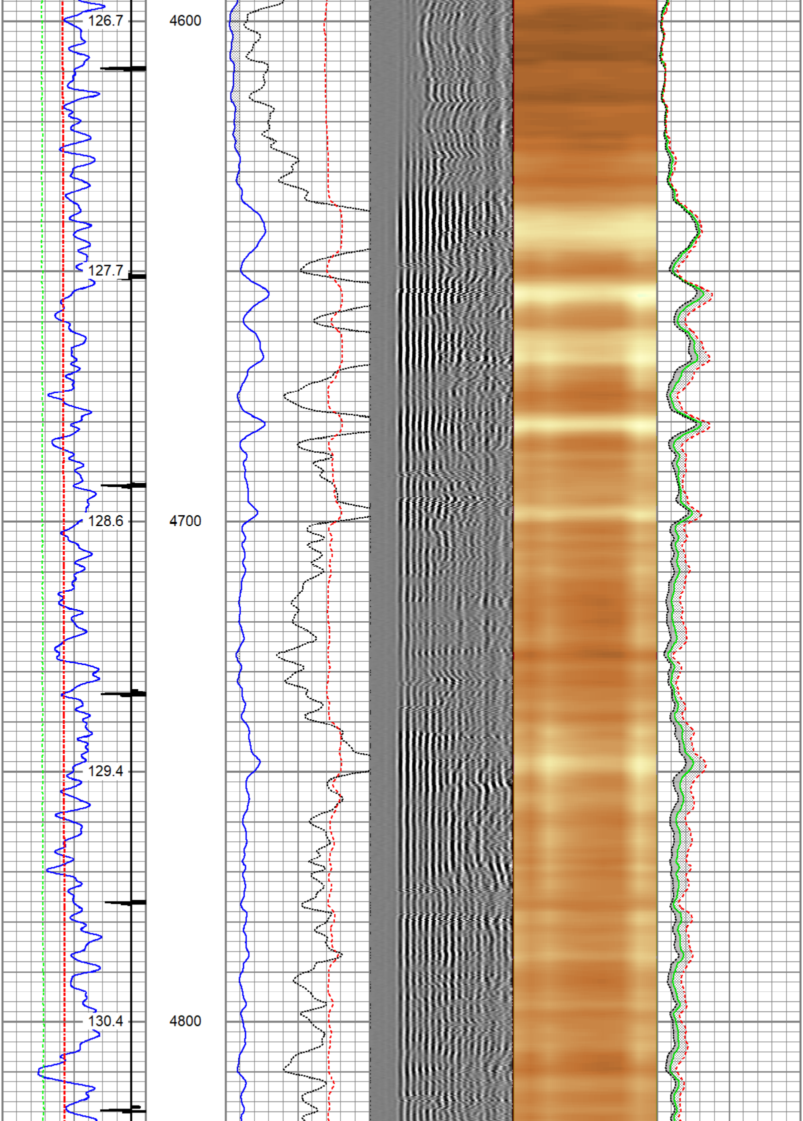
125.0
4500
125.8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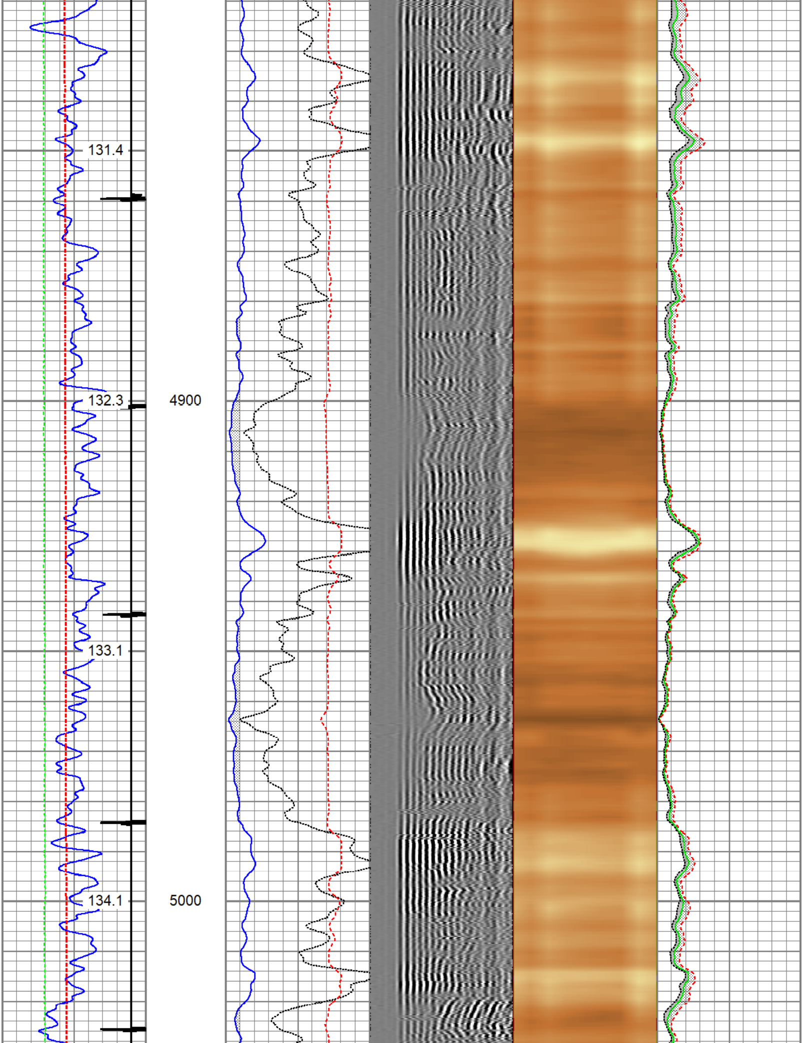
129.4
130.4
4800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134.1
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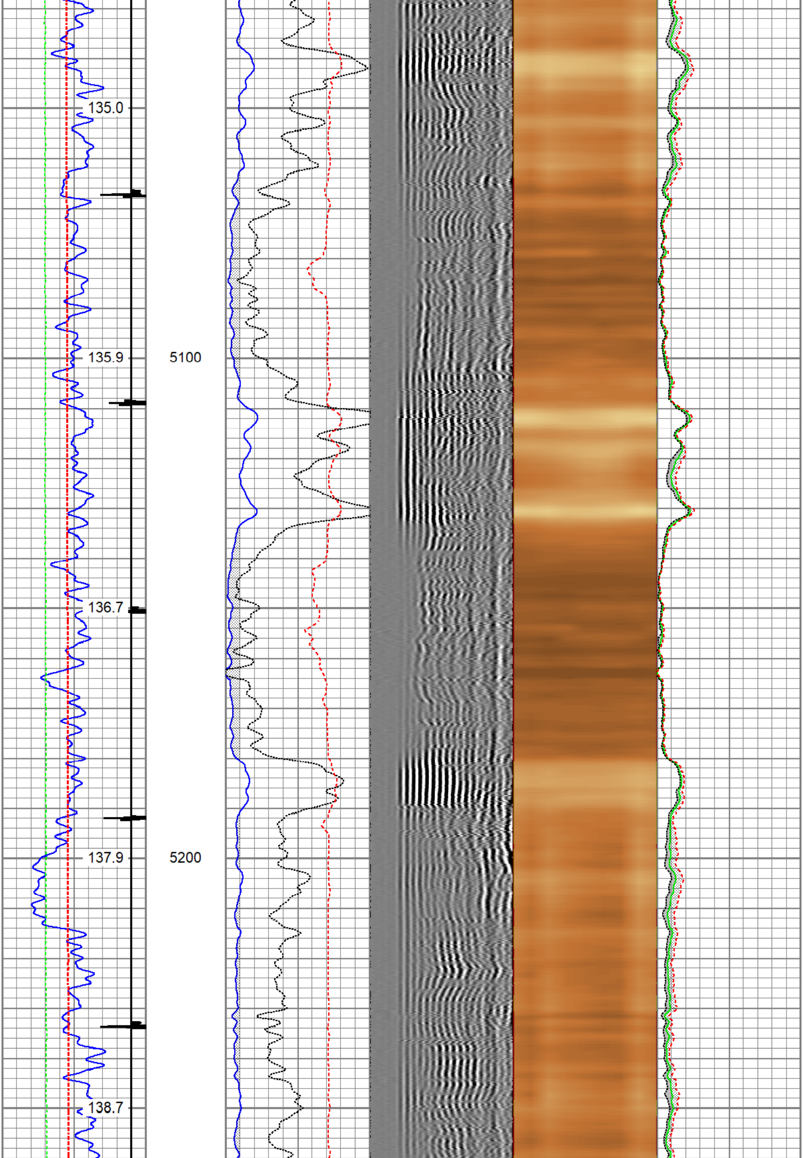
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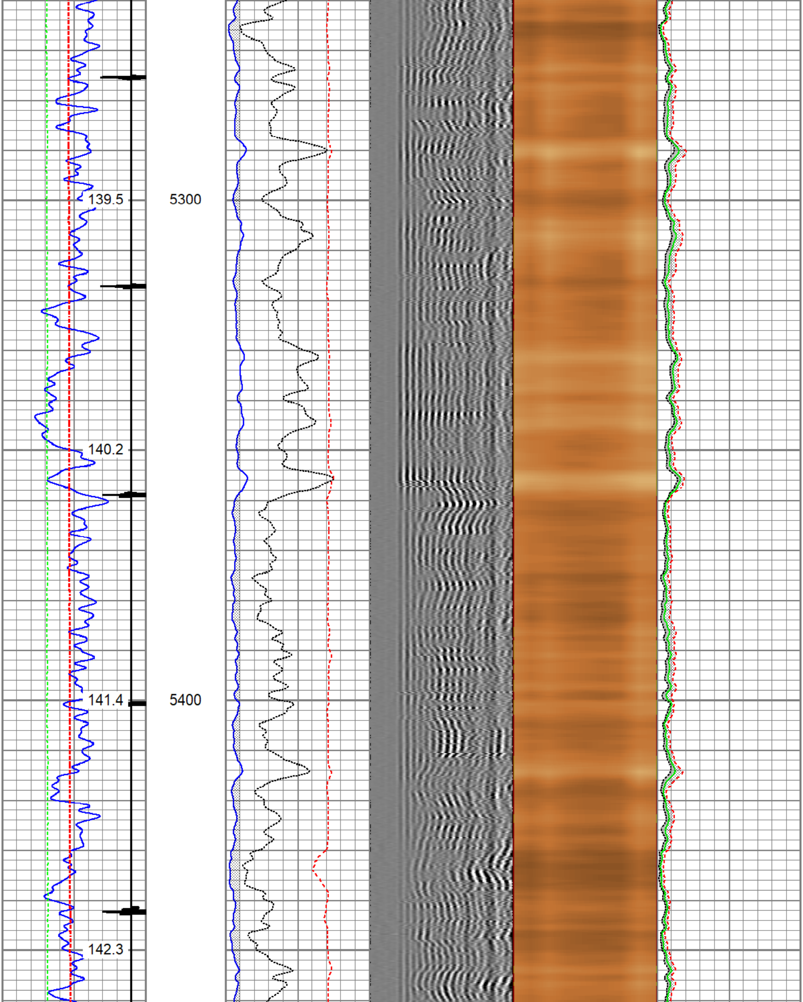
138.7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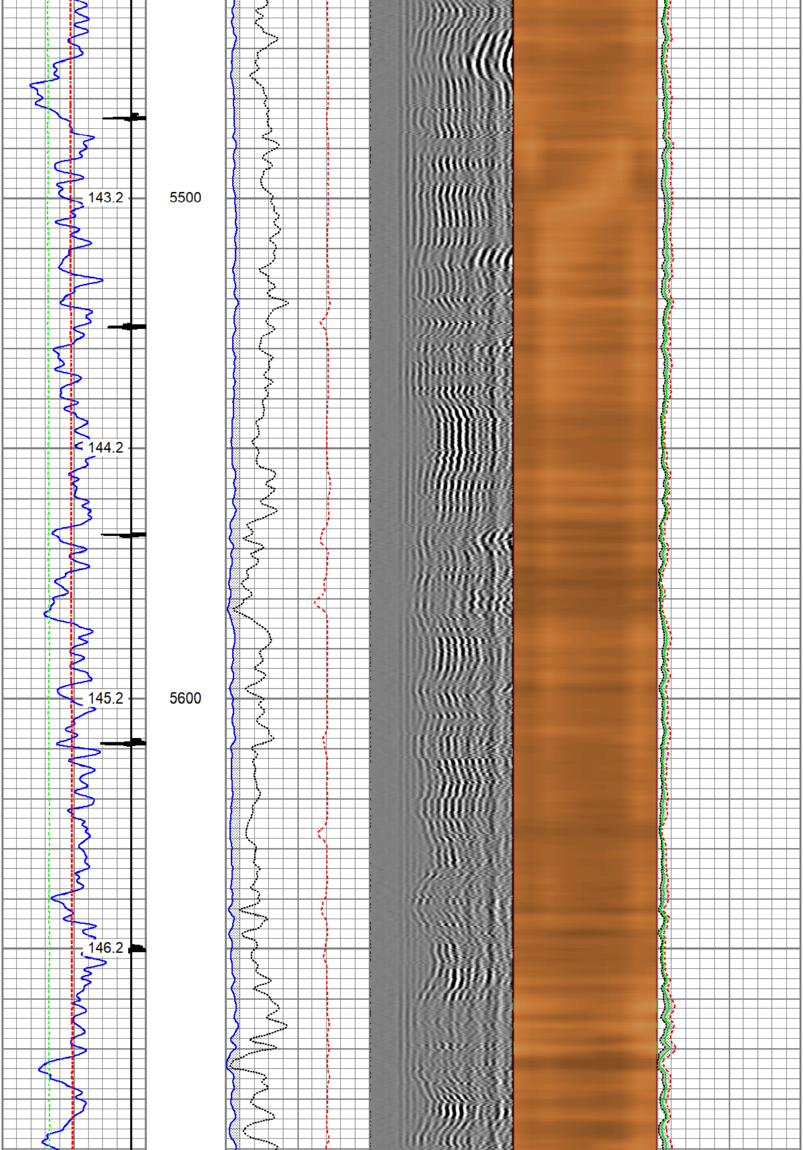
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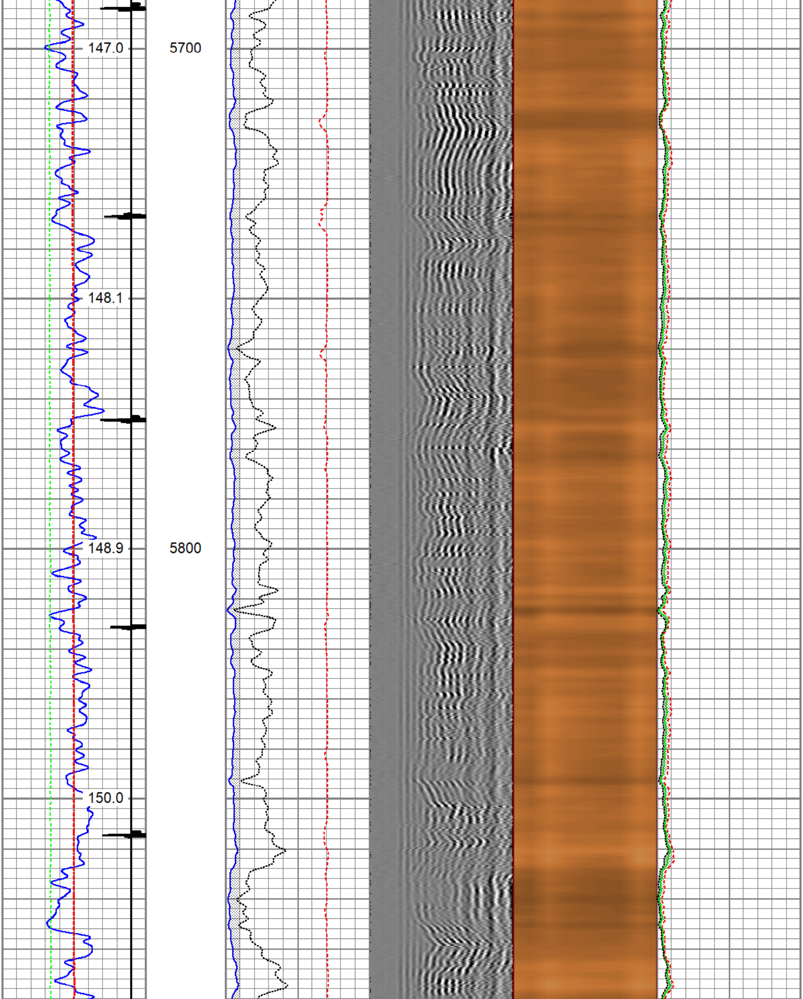
146.2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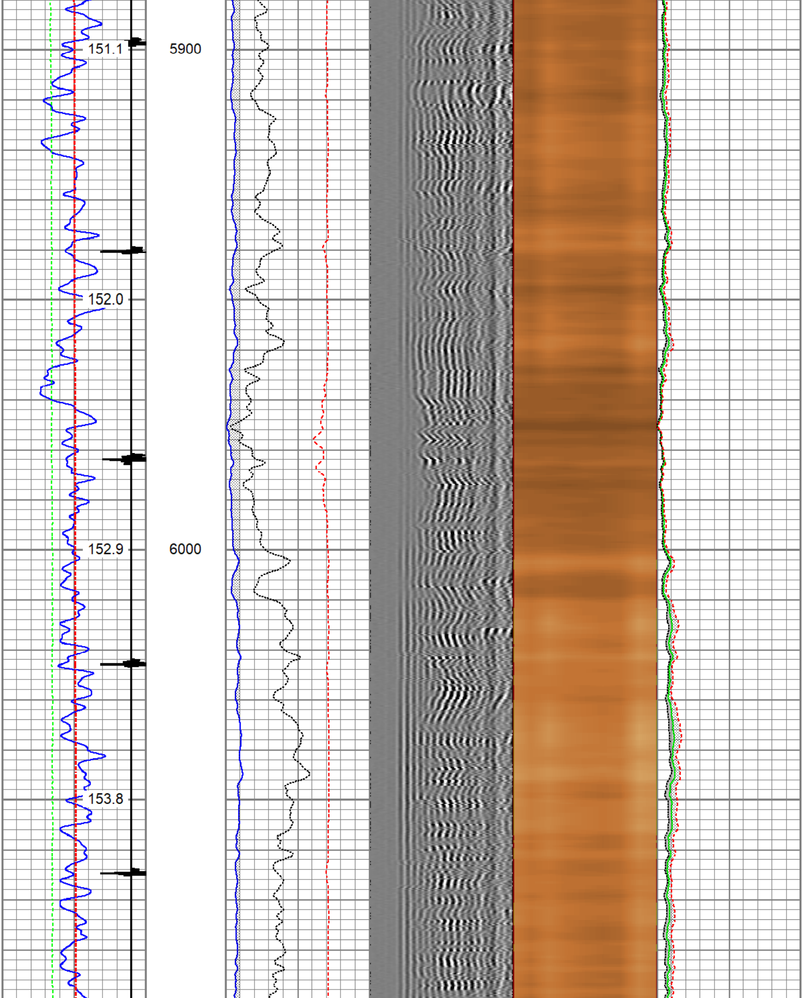
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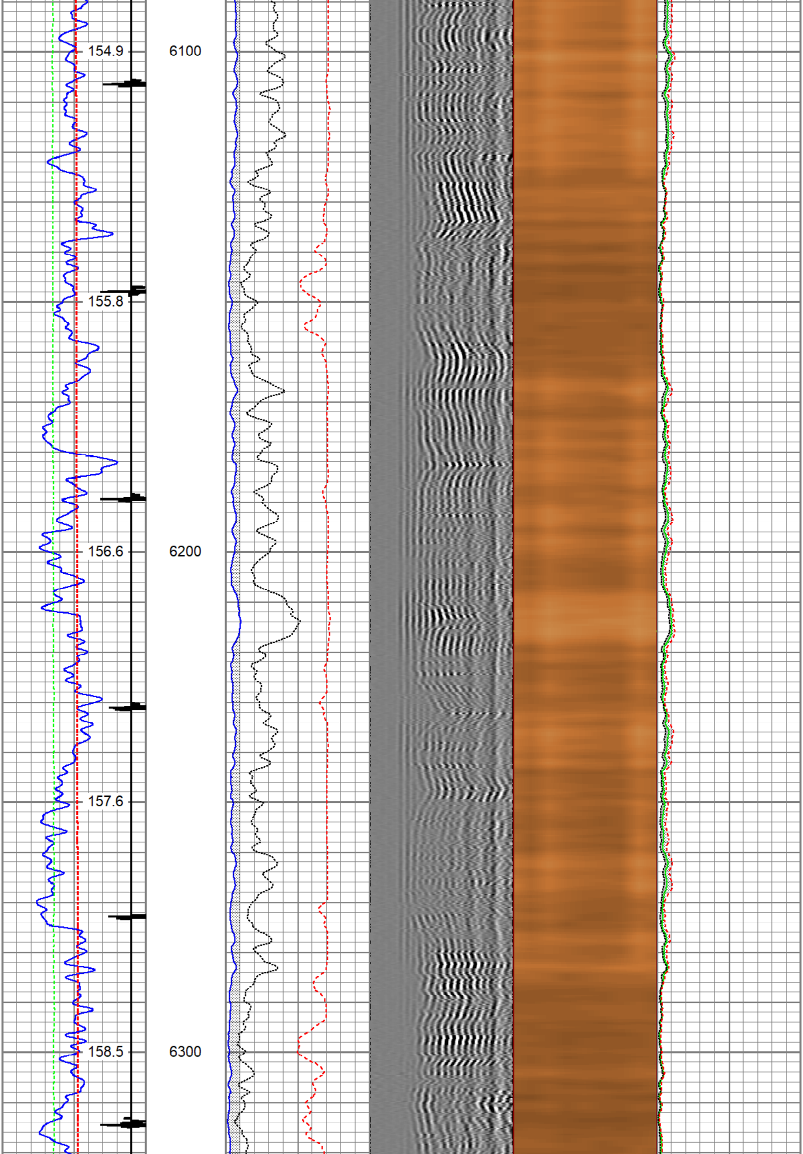
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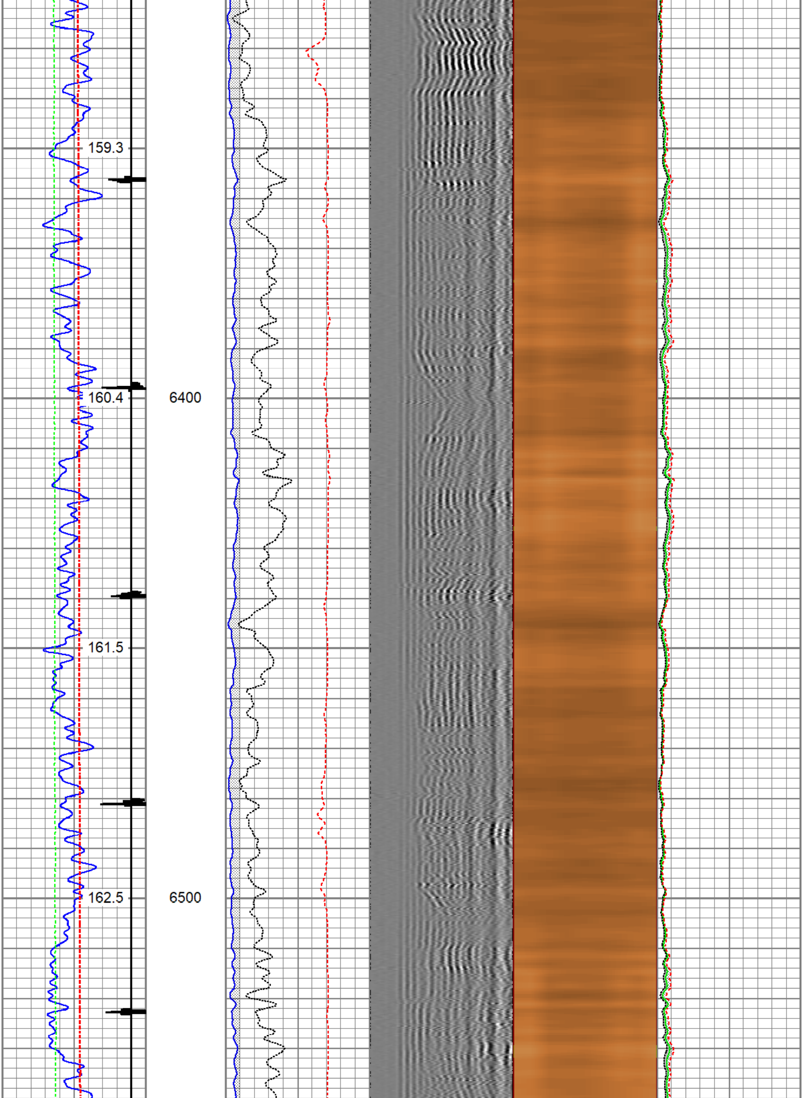
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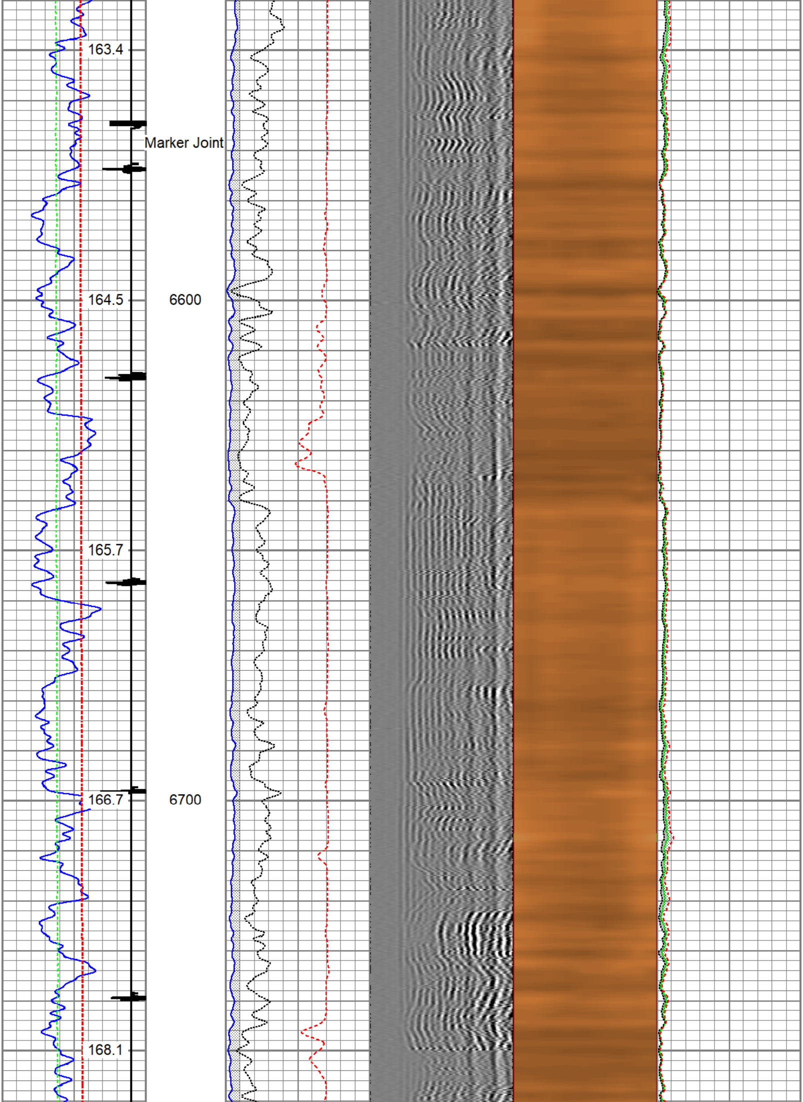
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Marker Joint
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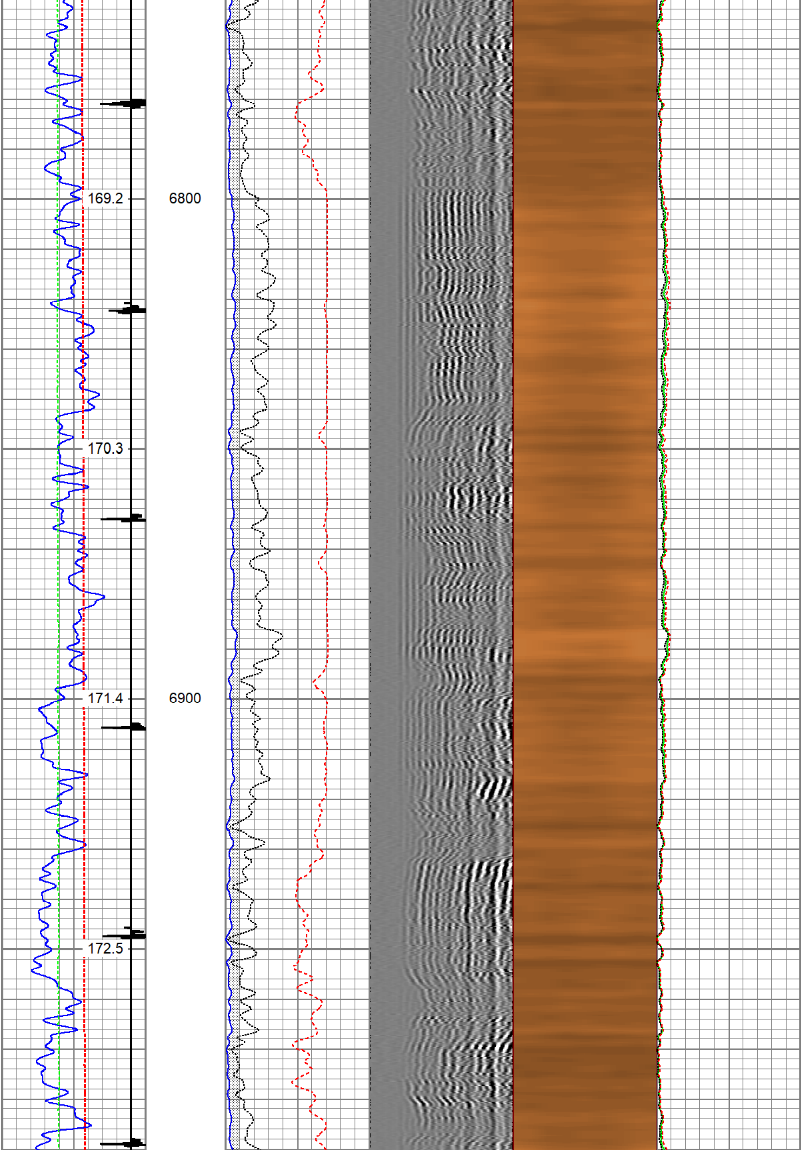
168.1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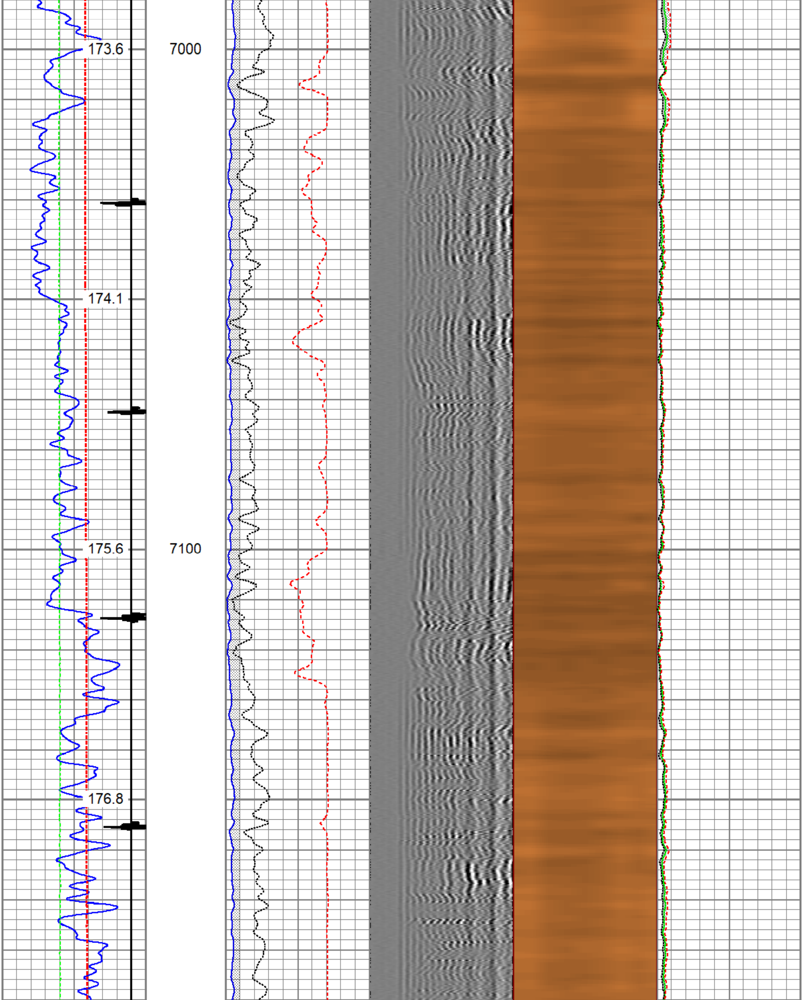
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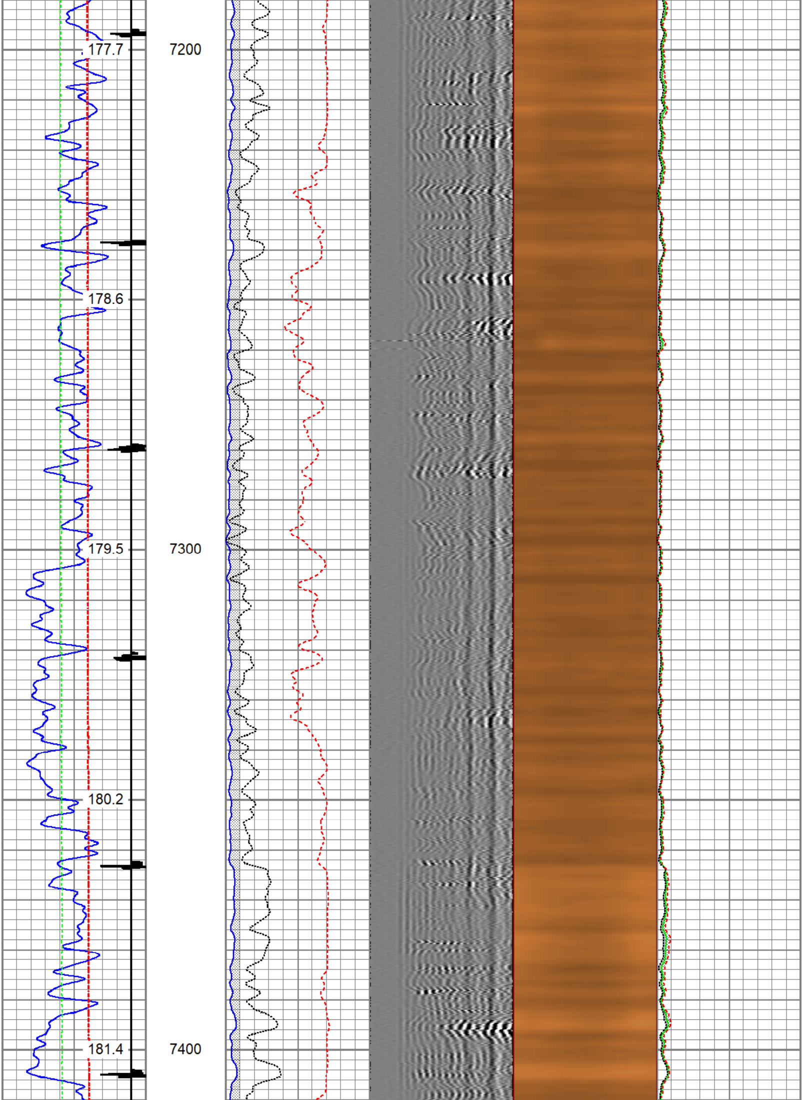
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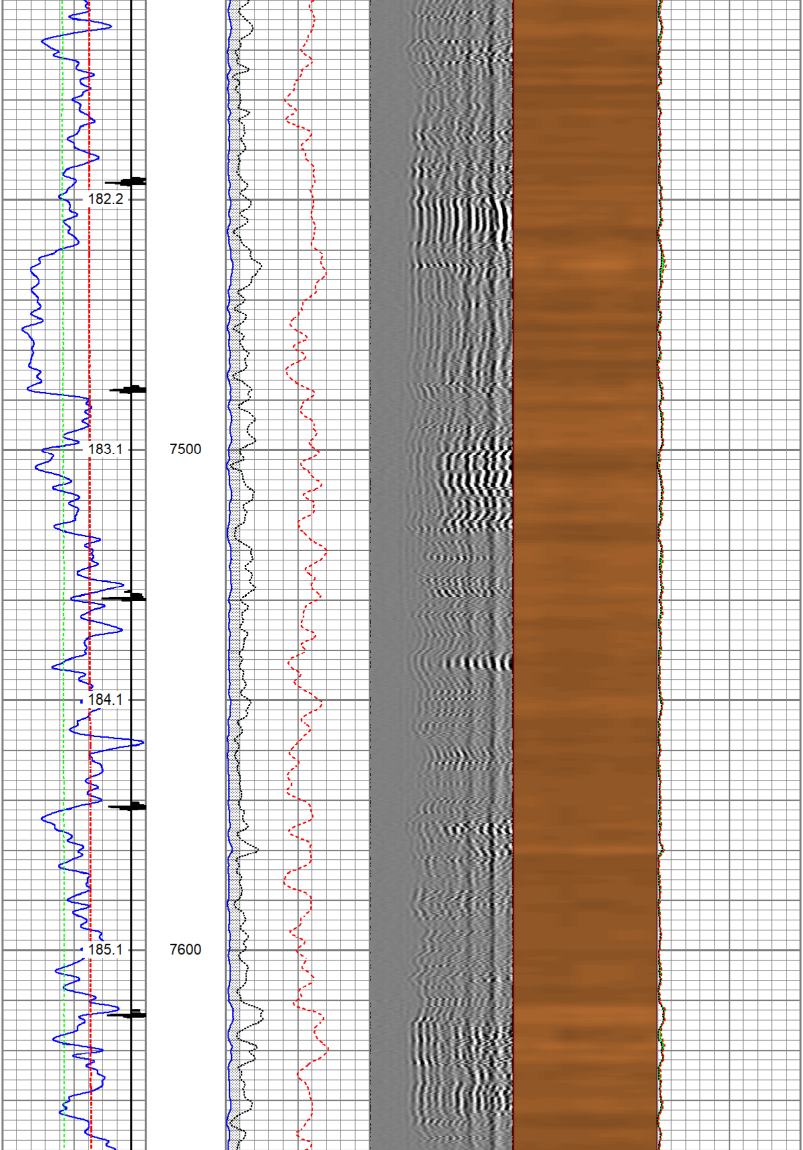
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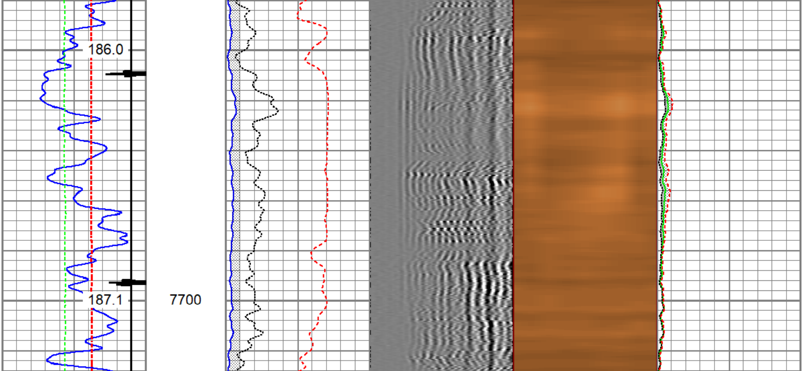
186.0
187.1
7700

Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100	200 (usec) 1200		0 120
Line Tension	3' Amplitude x 5			Mimimum Amplitude
0 (lb) 4000	0 (mV) 20			0 120
-9 CCL$1 1	3' Travel Time			Maximum Amplitude
0 Temp (degF) 300	650 (usec) 150			0 120

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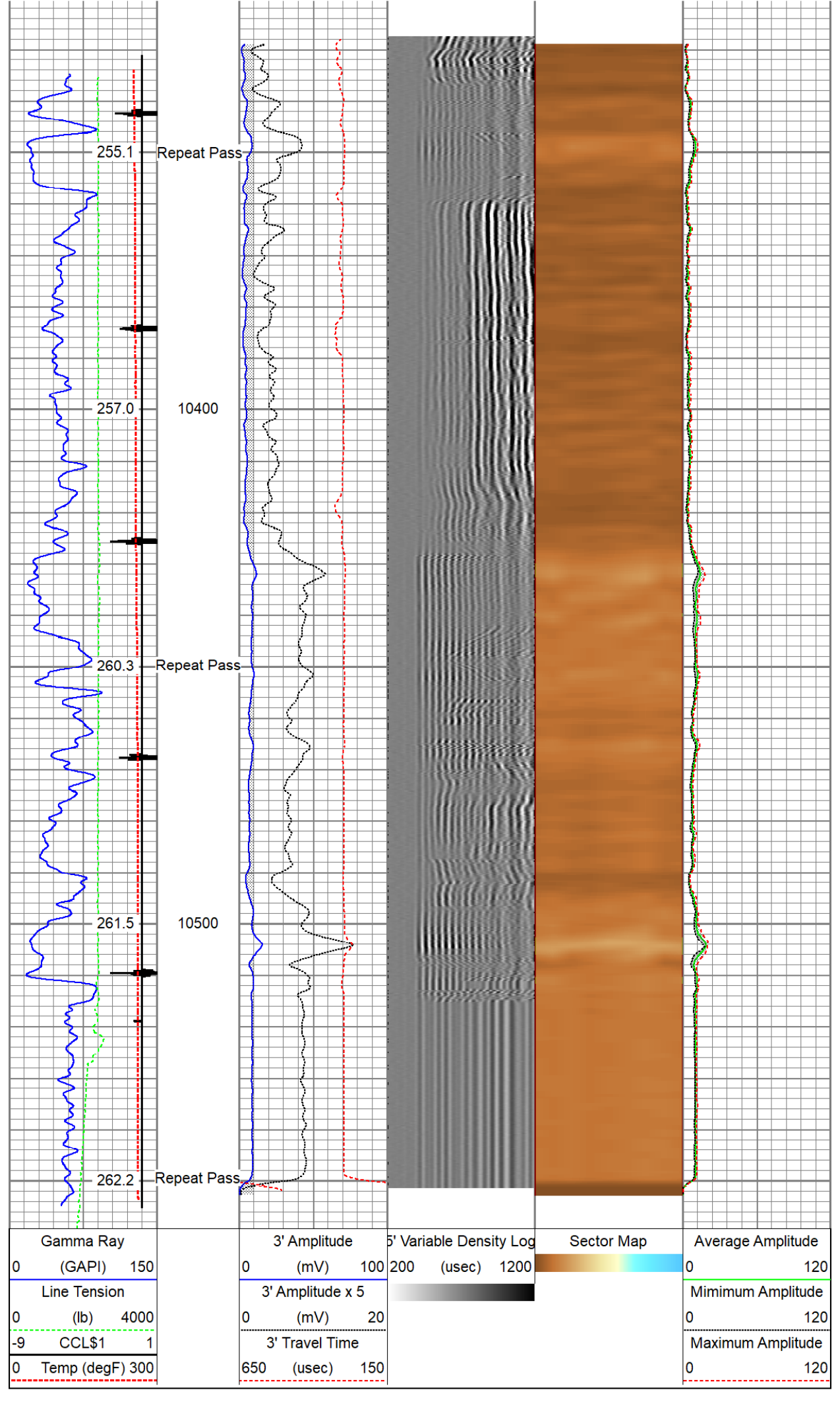
Repeat Pass 5" = 100'

Database File tep_sr_524-13_rcbl.db
Dataset Pathname repeat
Presentation Format twgrcbl
Dataset Creation Thu Jul 27 13:12:11 2023
Charted by Depth in Feet scaled 1:240

Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100	200 (usec) 1200		0 120
Line Tension	3' Amplitude x 5			Mimimum Amplitude
0 (lb) 4000	0 (mV) 20			0 120
-9 CCL$1 1	3' Travel Time			Maximum Amplitude
0 Temp (degF) 300	650 (usec) 150			0 120



Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100	200 (usec) 1200		0 120
Line Tension	3' Amplitude x 5			Mimimum Amplitude
0 (lb) 4000	0 (mV) 20			0 120
-9 CCL$1 1	3' Travel Time			Maximum Amplitude
0 Temp (degF) 300	650 (usec) 150			0 120

Calibration Report

Database File tep_sr_524-13_rcbl.db
Dataset Pathname main
Dataset Creation Thu Jul 27 13:16:32 2023

Gamma Ray Calibration Report

Serial Number: FW1906-035
Tool Model: 50-GCT275-0000
Performed: Fri May 12 14:17:41 2023

Calibrator Value: 146.4 GAPI

Background Reading: 78.3 cps
Calibrator Reading: 300.9 cps

Sensitivity: 0.6579 GAPI/cps

Inclinometer Calibration Report

Performed: Fri May 12 15:02:48 2023

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-905.00	896.00	-1.00	1.00	gee
Y Accelerometer	-904.00	899.00	-1.00	1.00	gee
Z Accelerometer	-4.20	-897.60	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number: FW1312-30
Tool Model: Probe275acc

Calibration Casing Diameter: 4.500 in
Calibration Depth: 86.983 ft

Master Calibration, performed Thu Jul 27 10:33:24 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.001	0.885	0.250	81.196	116.728	0.167
CAL	0.001	0.745				
5'	0.002	0.674	0.250	81.196	187.453	0.038
SUM						
S1	0.001	0.756	0.000	100.000	132.391	-0.160
S2	0.001	0.806	0.000	100.000	133.399	-0.185
S3	0.002	0.750	0.000	100.000	143.609	-0.237
S4	0.002	0.790	0.000	100.000	145.182	-0.305
S5	0.002	0.787	0.000	100.000	144.419	-0.213
S6	0.001	0.725	0.000	100.000	146.707	-0.145
S7	0.002	0.908	0.000	100.000	150.384	-0.191
S8	0.001	0.882	0.000	100.000	145.049	-0.146

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.745	1.000	0.000

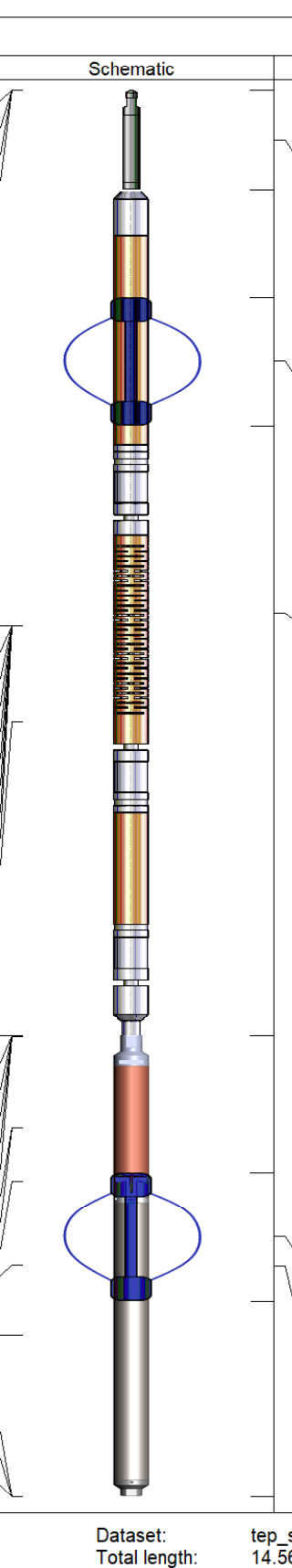
Air Zero Calibration, performed Thu Jul 27 08:01:21 2023:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.001	0.000	0.000
5'	0.002	0.000	-0.000
SUM			
S1	0.001	0.000	0.000
S2	0.002	0.000	-0.000
S3	0.001	0.000	0.000
S4	0.003	0.000	-0.000
S5	0.002	0.000	-0.000
S6	0.001	0.000	0.000
S7	0.001	0.000	0.000
S8	0.001	0.000	0.000

Inclinometer Calibration Report

Performed: Thu Jul 28 15:46:49 2022

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-931.00	904.00	-1.00	1.00	gee
Y Accelerometer	-899.00	884.00	-1.00	1.00	gee
Z Accelerometer	1.47	886.18	0.00	1.00	gee

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GCT_FMWR mSec_Count RBT_Status Error_Ct	14.56 14.56 14.56 14.56		Titan CHD-1375 MOD Titan Modified 1-3/8" Assembled Electric Cable Head with 1" Fishing Neck	1.04	1.38	1.00
			SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
WVFS8 WVFS7 WVFS6 WVFS5 WVFS4 WVFS3 WVFS2 WVFS1 WVF3FT WVF5FT	9.02 9.02 9.02 9.02 9.02 9.02 9.02 9.02 9.02 8.02		RBT8acc-Probe275acc (FW1312-30) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
RBT_ACCZ RBT_ACCY RBT_ACCX WVFSYNC WVFCAL GCT_HV CCL$2 CCL$1	4.77 4.77 4.77 4.77 4.77 4.76 3.81 3.81		SO BS CENT-2750-4500 Slip Over 2-3/4" I.D. for 4-1/2" O.D. Casing Bow Spring Centralizer	1.33	3.25	10.00
GCT_Temp GR GCT_IntTemp GCT_ACCZ GCT_ACCY GCT_ACCX	3.26 2.39 1.67 0.00 0.00 0.00		GCT_acc-50-GCT275-0000 (FW1906-035) Probe 2.75" Gamma Ray - CCL w/Temp (Single Pin)	4.77	2.75	55.00

Dataset: tep_sr_524-13_rcbl.db: field/well/run1/main
Total length: 14.56 ft
Total weight: 196.00 lb
O.D.: 3.25 in

Company	TEP Rocky Mountain LLC		
Well	Leverich SR 524-13		
Field	Rulison		
County	Garfield	State	Colorado

THE WIRELINE GROUP

Radial Cement Bond
Gamma Ray
Casing Collar Log