Company	Laramie Energy LLC
Well	CC 0697-10-13E
Field	Grand Valley
County	Garfield
State	Colorado

TWG THE WIRELINE GROUP

Radial Cement Bond Gamma Ray Casing Collar Log

Company	Laramie Energy LLC		
Well	CC 0697-10-13E		
Field	Grand Valley		
County	Garfield	State	Colorado
Location:	API # : 05-045-24530		Other Services
	SEC 15 TWP 6S RGE 97W		CNL
Permanent Datum	Ground Level	Elevation 8502'	Elevation
Log Measured From	Kelly Bushing		K.B. 8532'
Drilling Measured From	Kelly Bushing	30'	D.F.
			G.L. 8502'

Date	20-JUL-2025
Run Number	One
Depth Driller	9963'
Depth Logger	9895'
Bottom Logged Interval	9890'
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	10:00
Equipment Number	09:30
Location	Grand Junction
Recorded By	E. Vaughn
Witnessed By	J. Skalla

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	2577'
Prot. String				
Production String	4.5"	11.6	Surface	9944'
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 at 7804' - 7826'
Marker Joint at 9318' 9340'
Thank you for choosing The Wireline Group!

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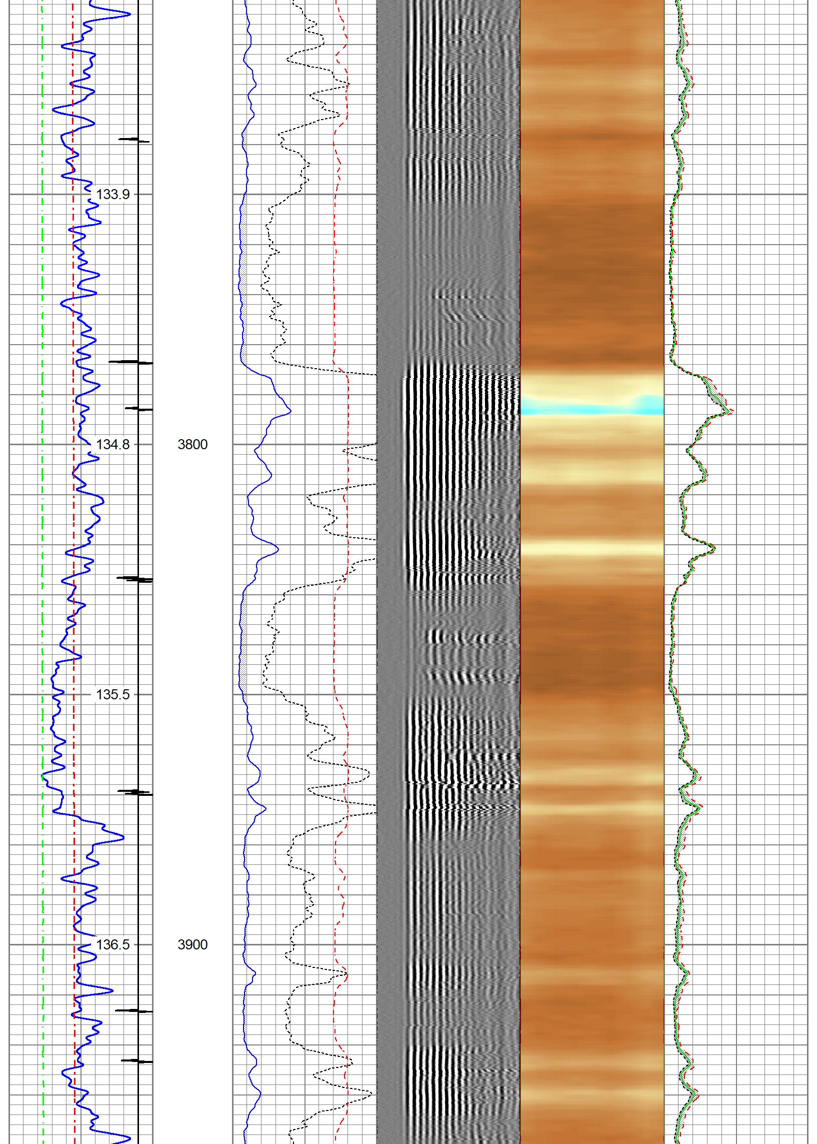
Main Pass 5" = 100' (0 PSI)

Database File	laramie_cc 0697-10-13e_rcbl_cnl.db
Dataset Pathname	main
Presentation Format	twgrcbl
Dataset Creation	Sun Jul 20 09:58:27 2025
Charted by	Depth in Feet scaled 1:240

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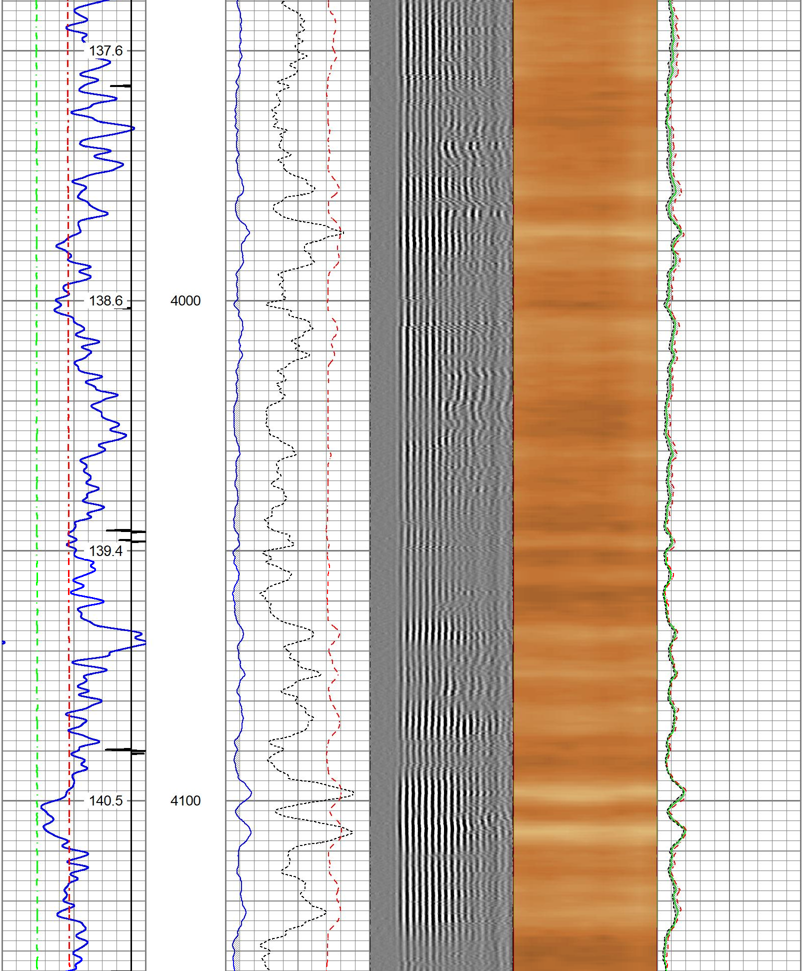
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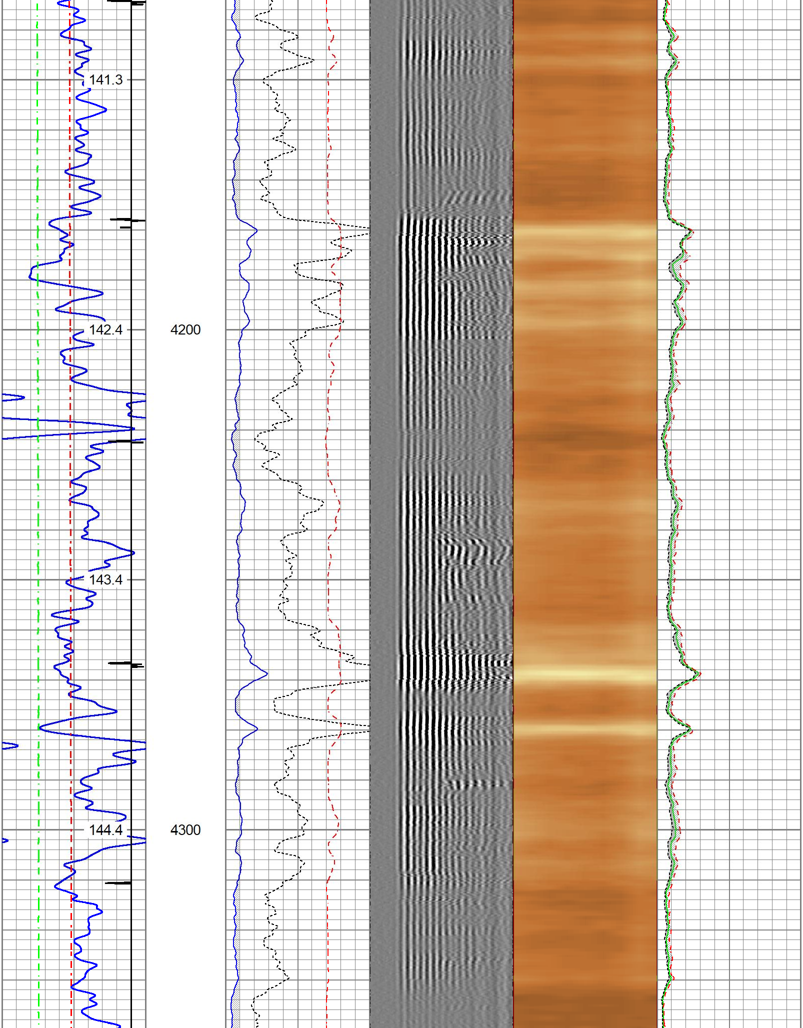
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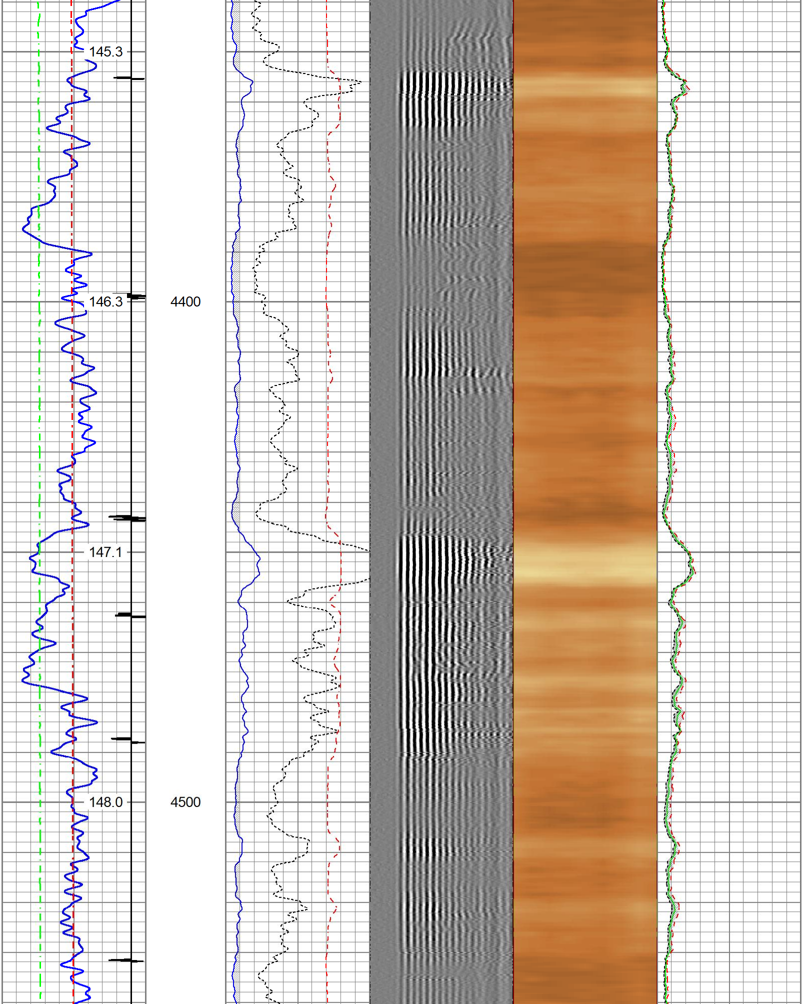
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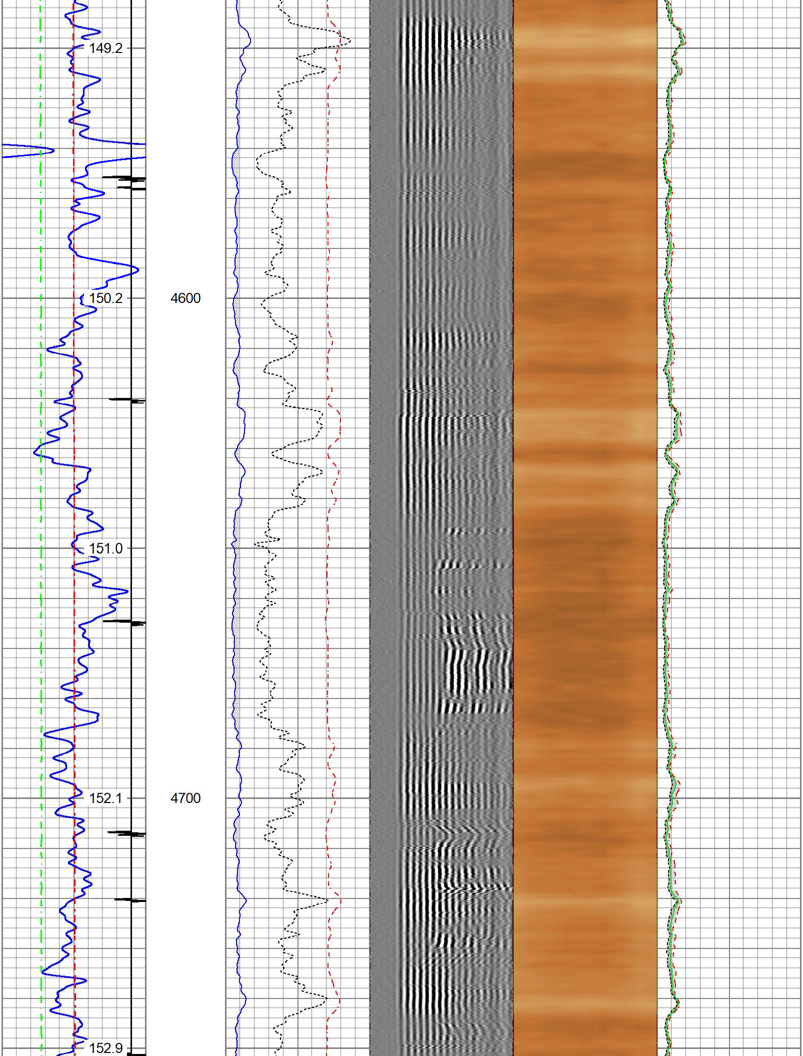
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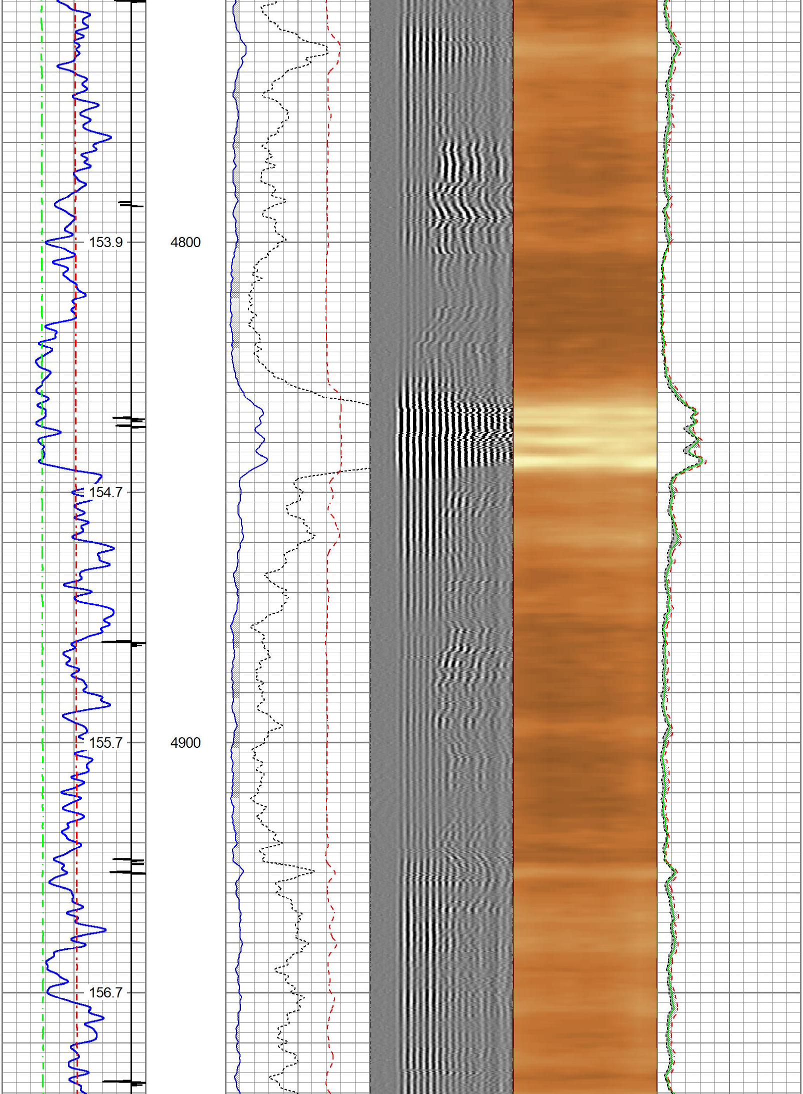
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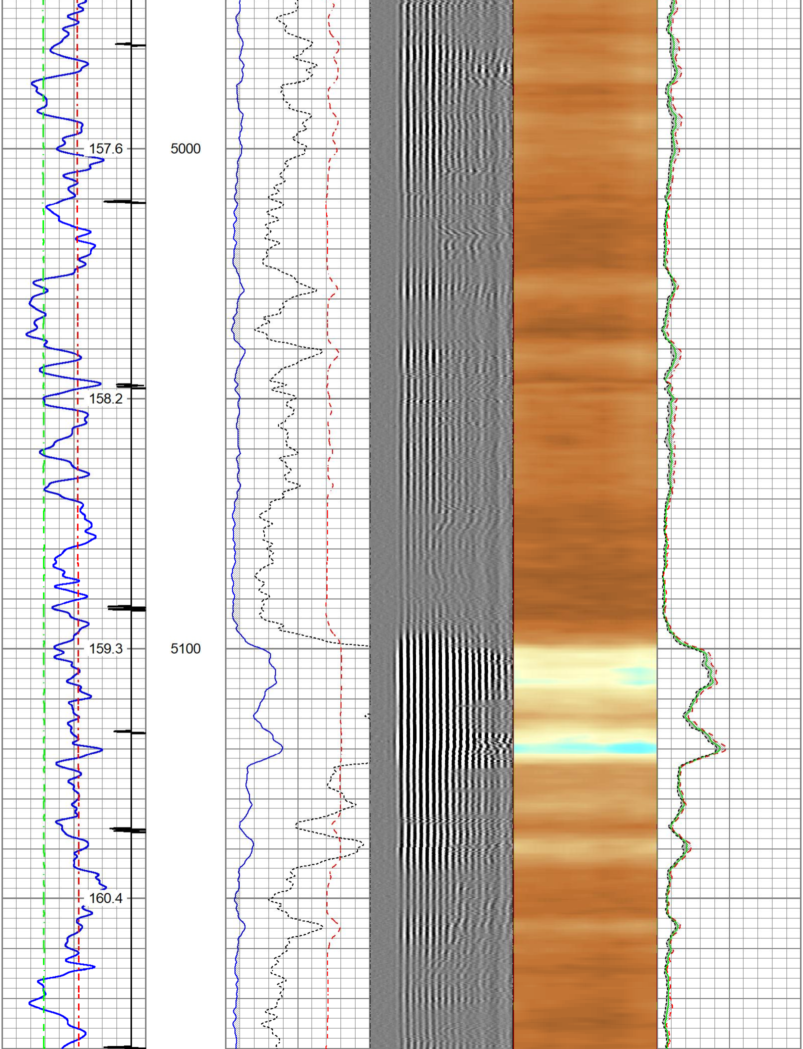
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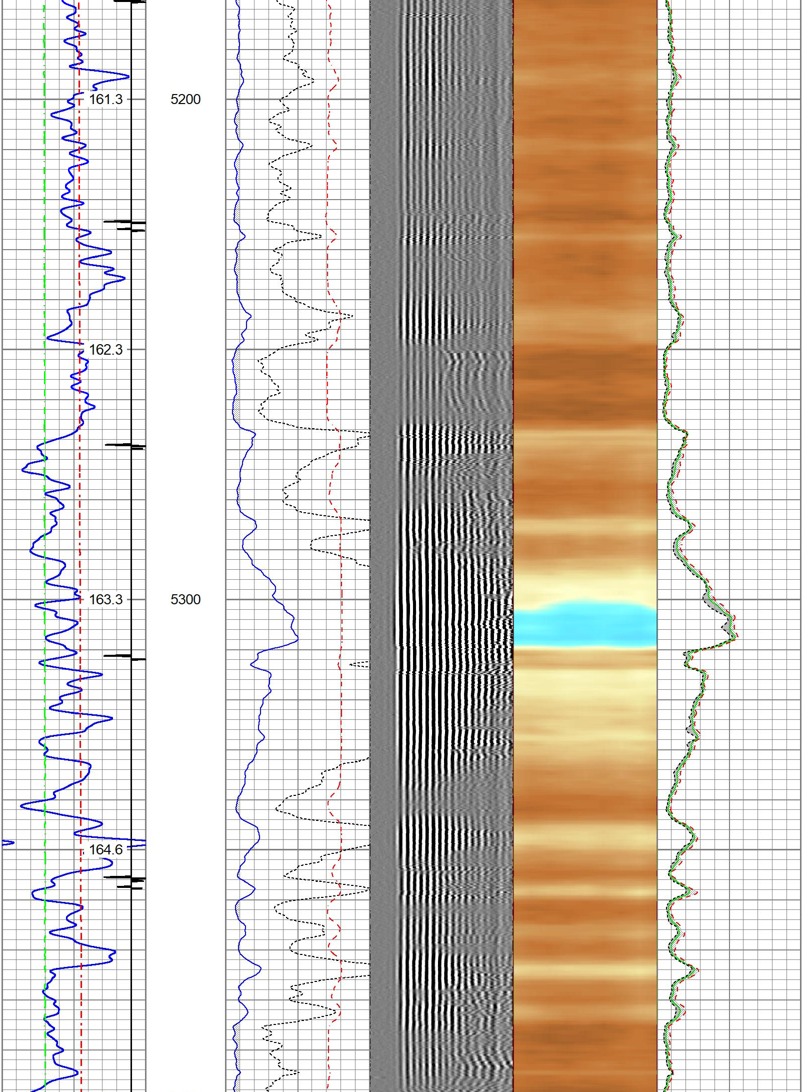
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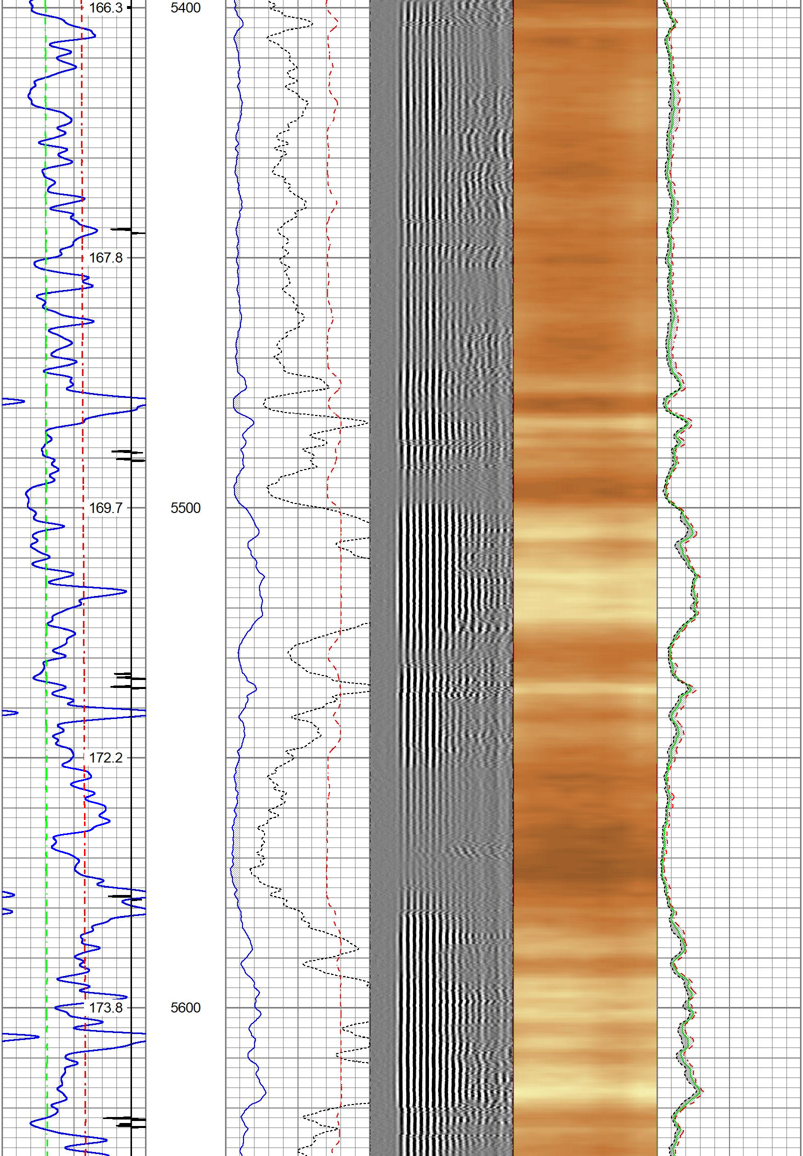
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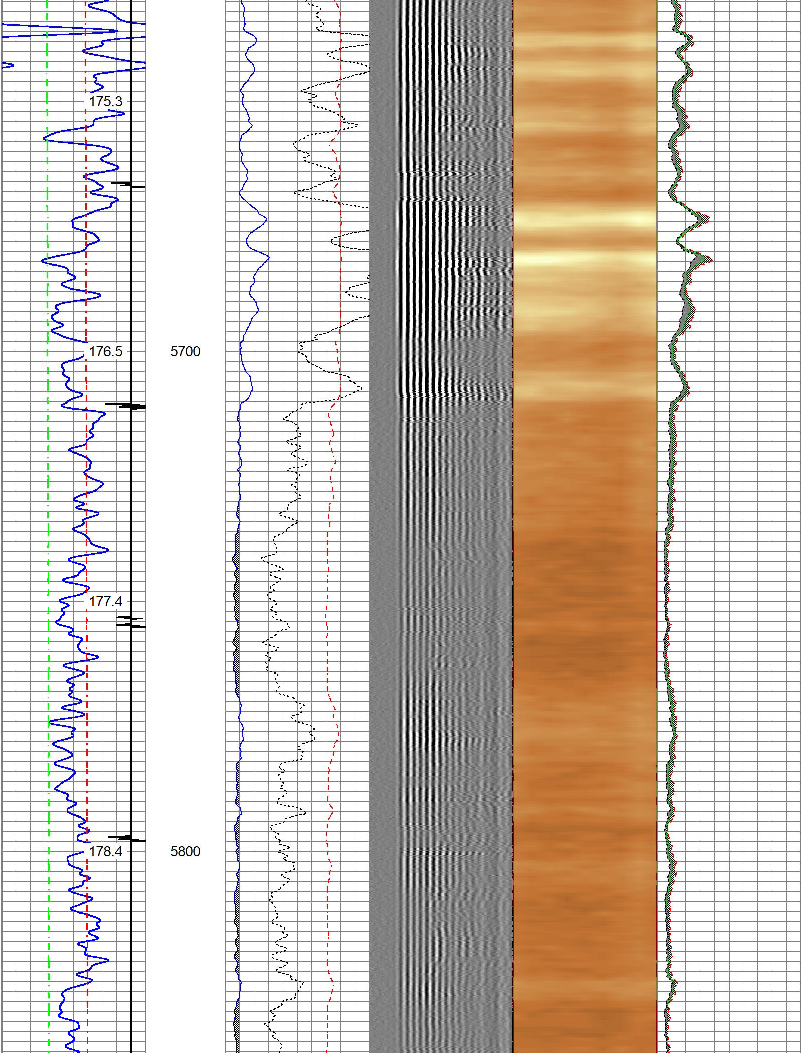
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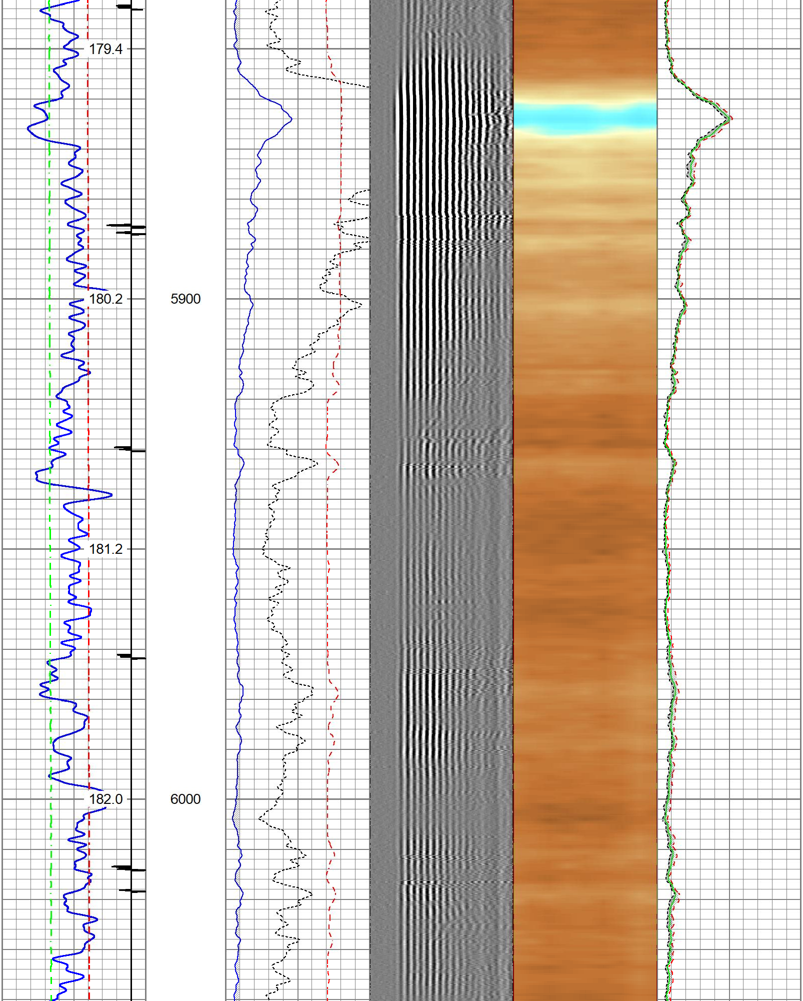
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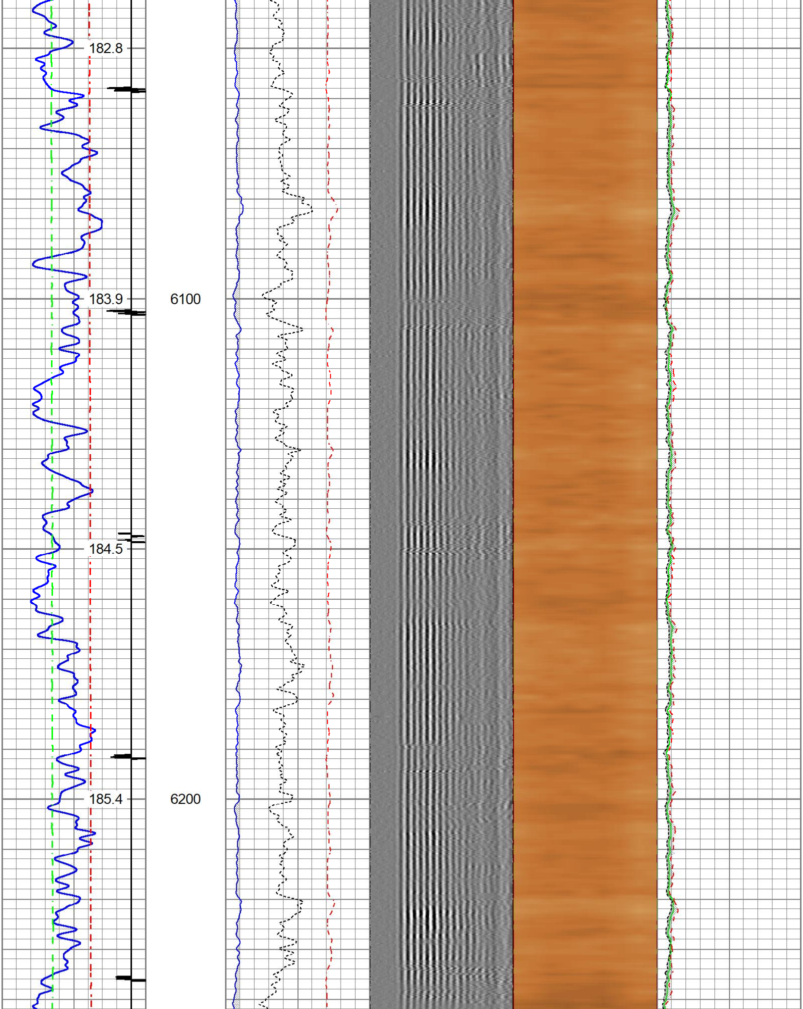
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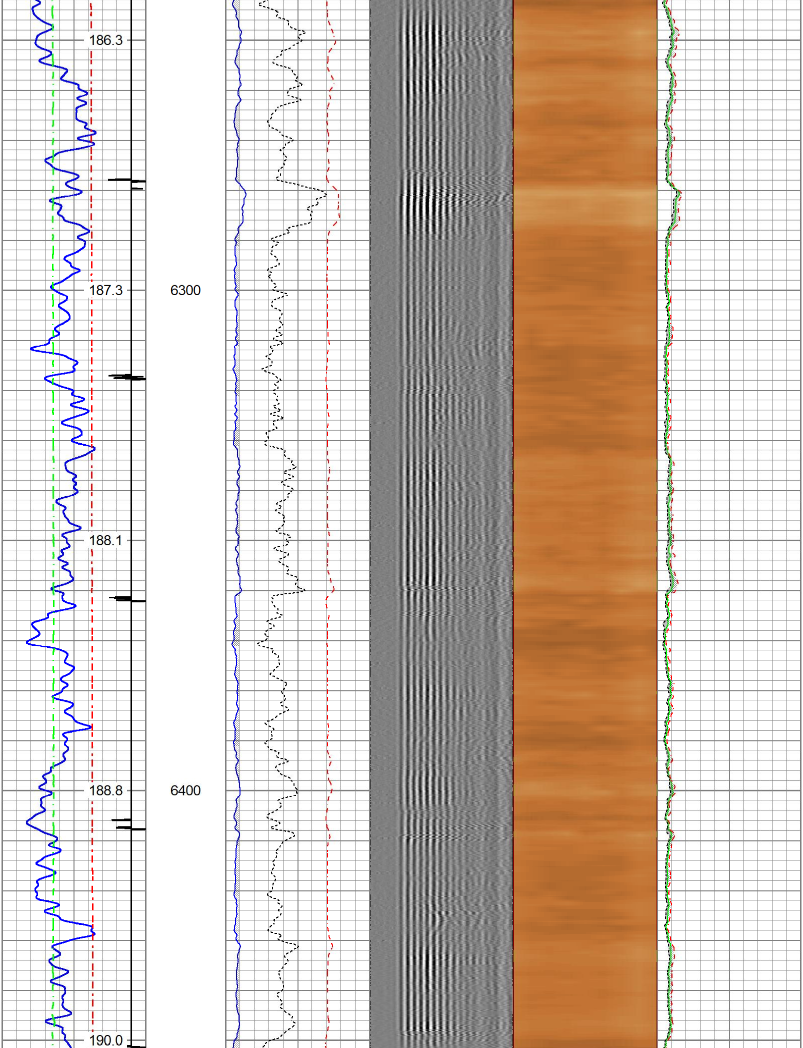
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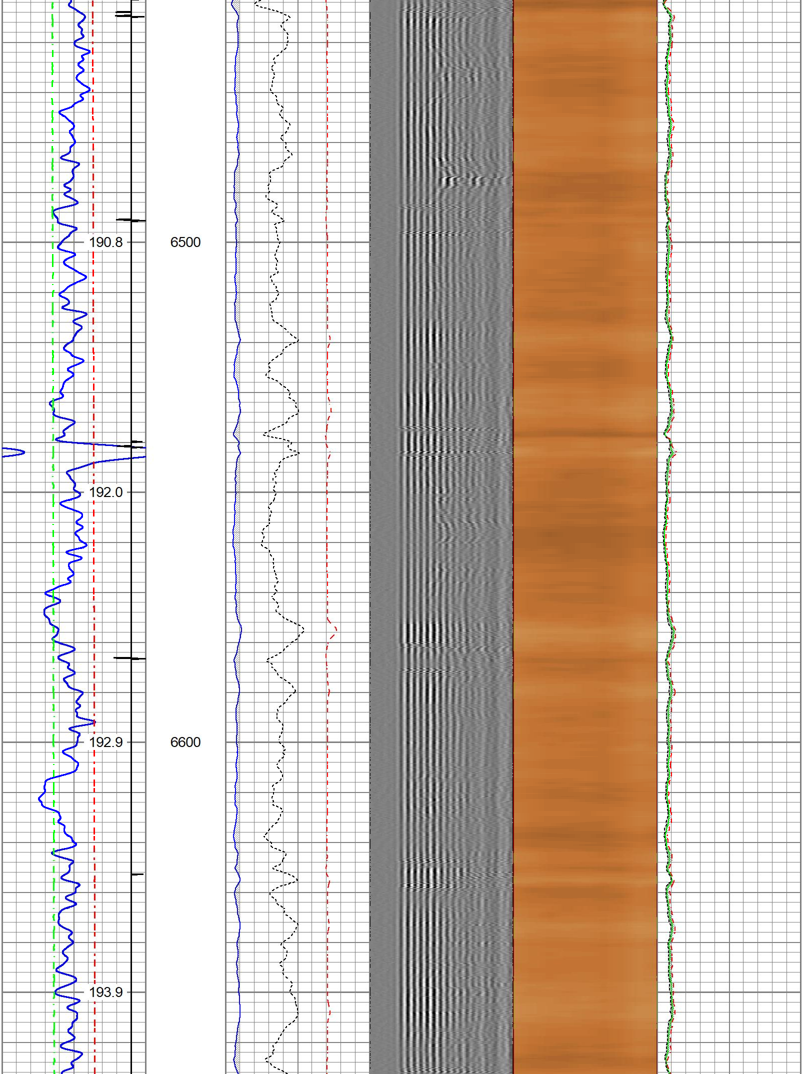
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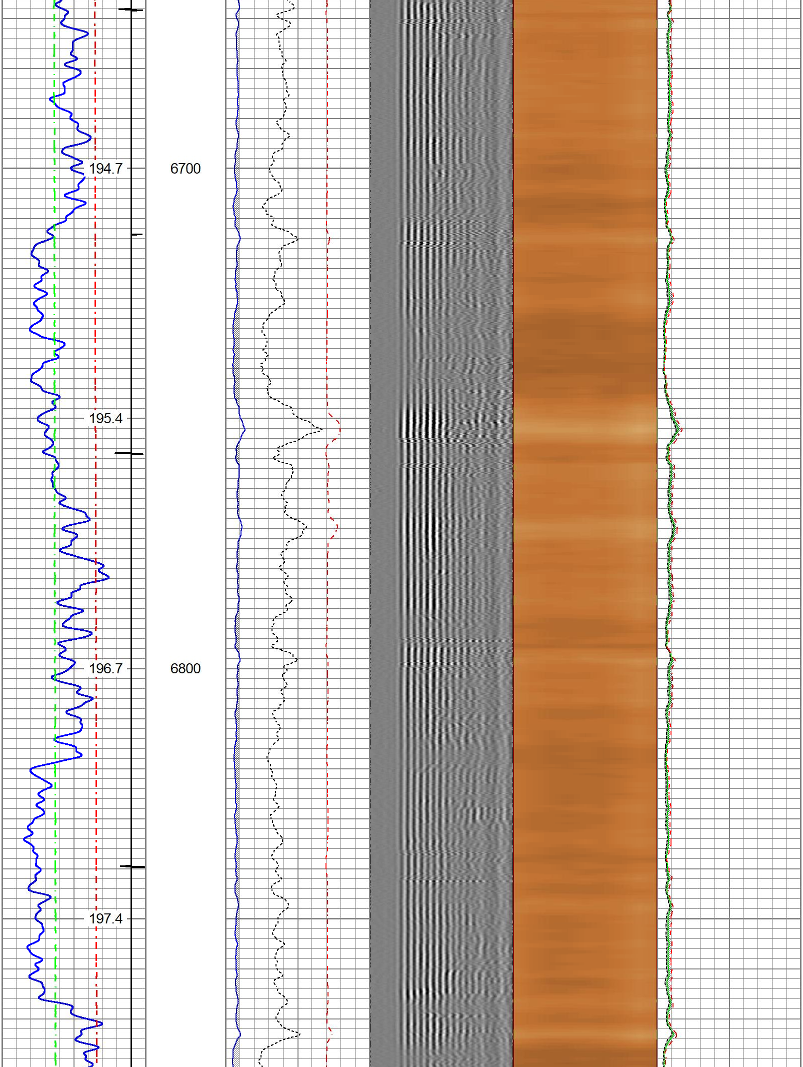
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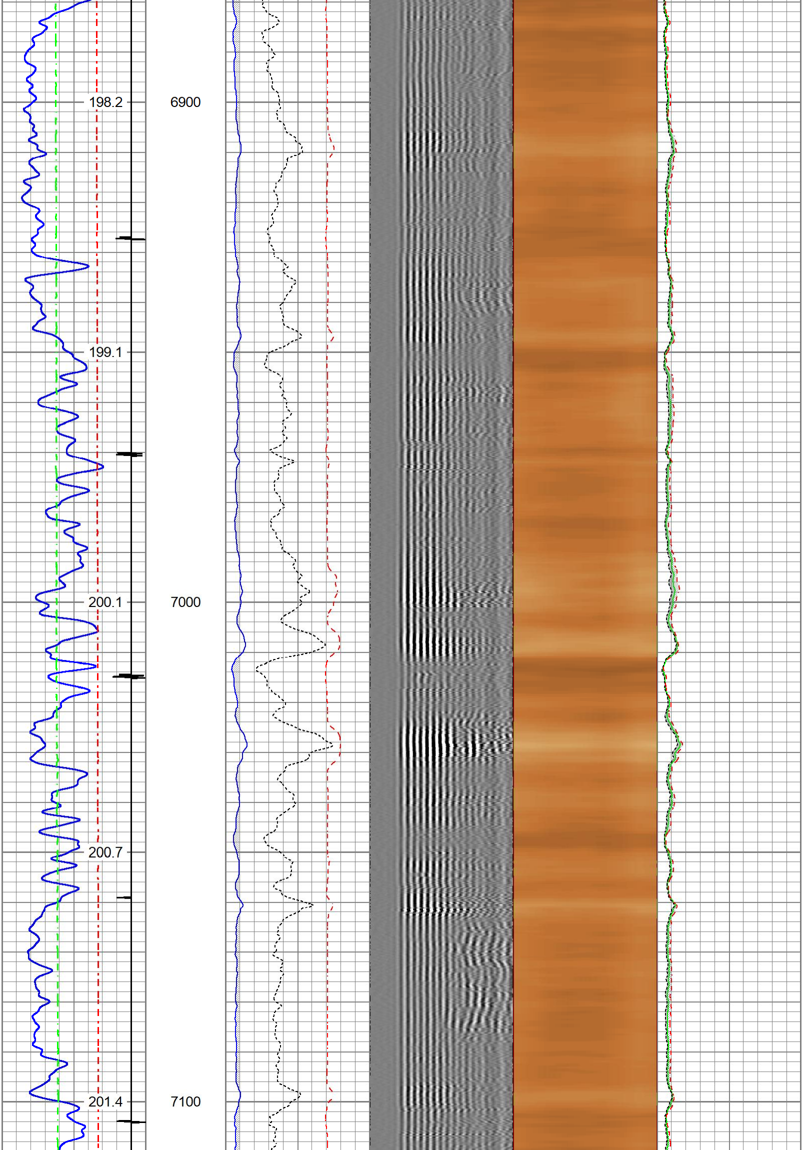
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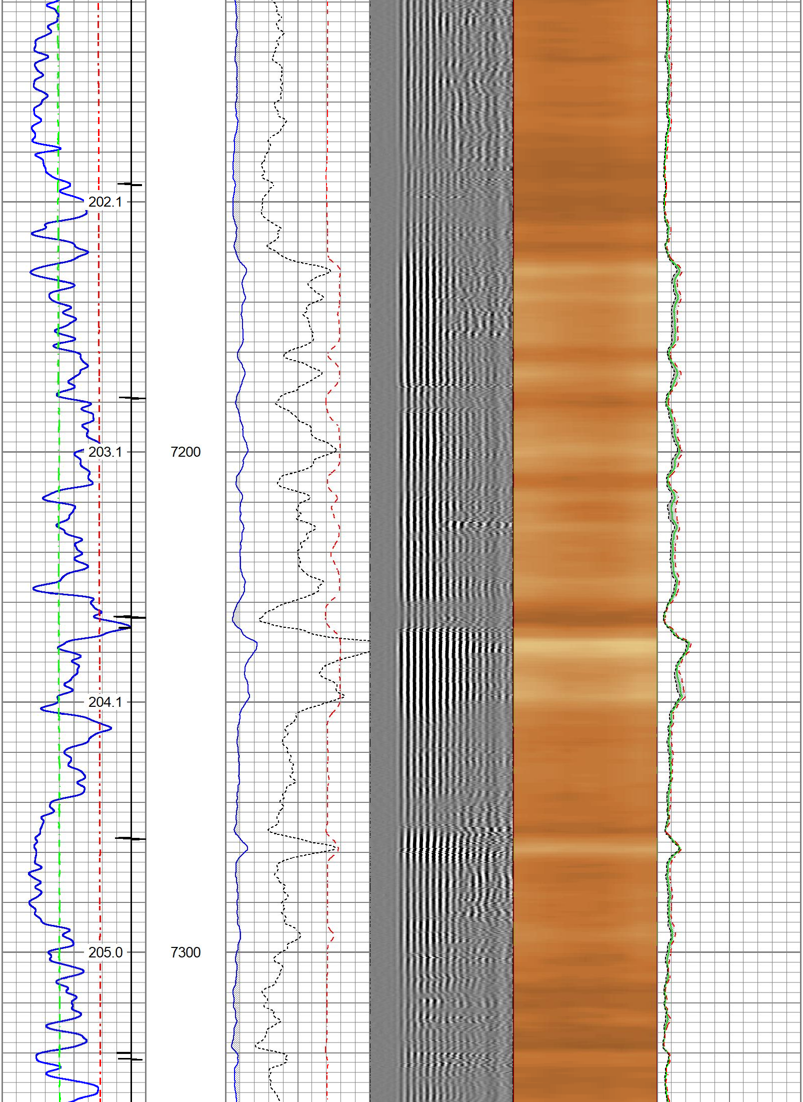
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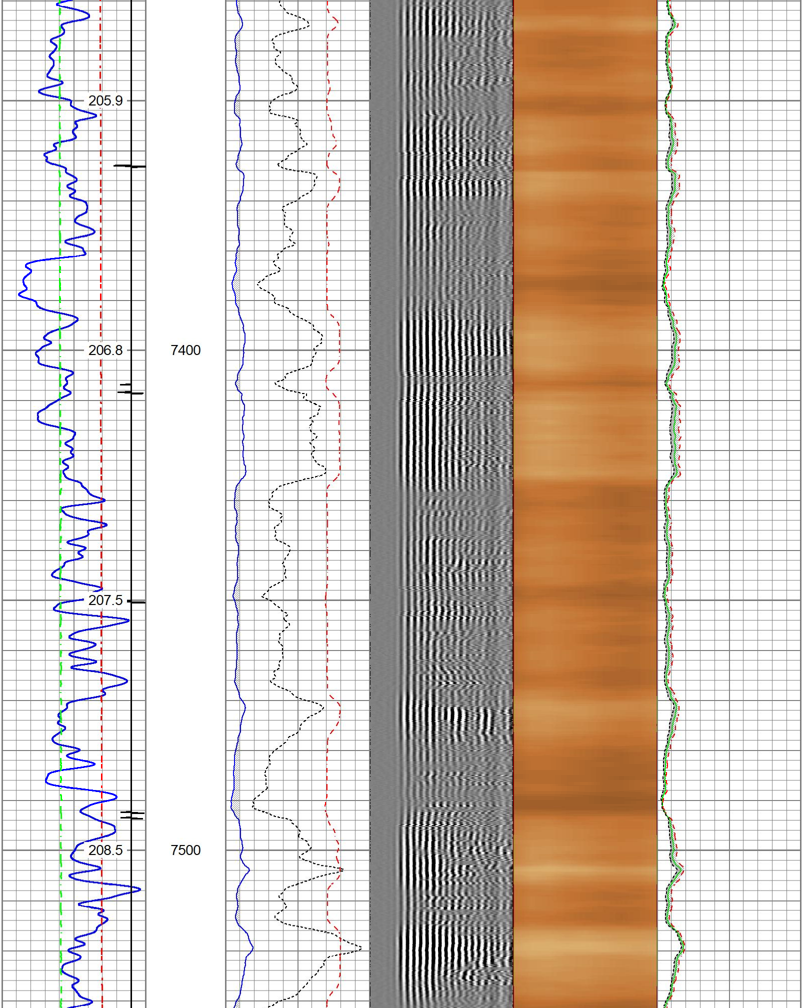
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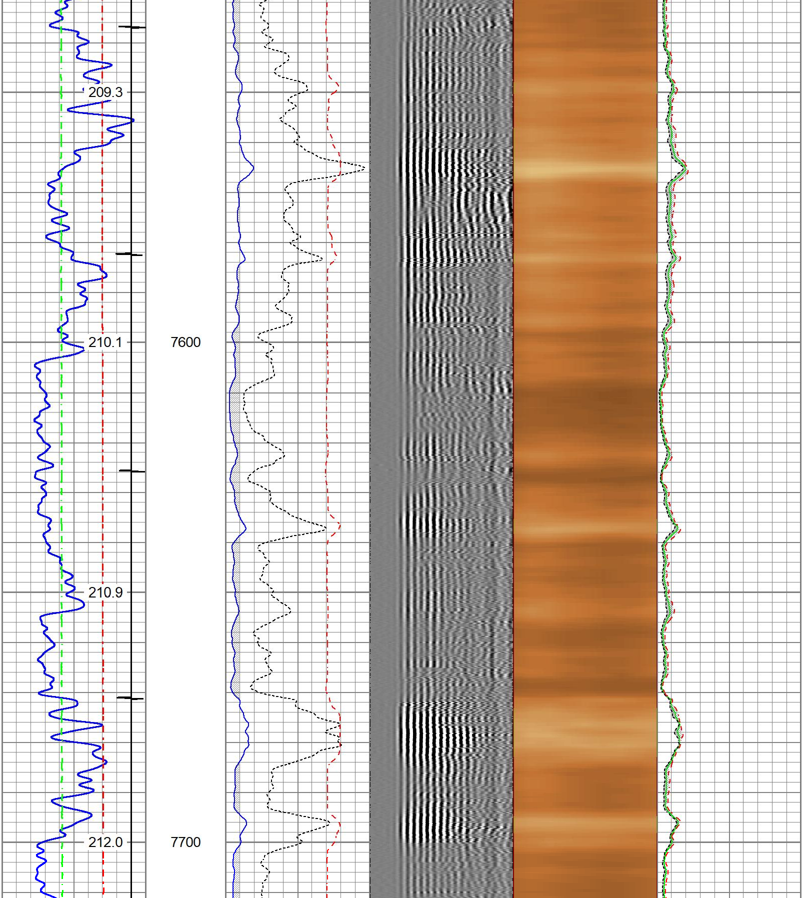
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Gamma Ray	3' Amplitude	5' Variable Density Log	Sector Map	Average Amplitude
0 (GAPI) 150	0 (mV) 100	200 (usec) 1200		0 120
Line Tension	3' Amplitude x 5			Mimimum Amplitude
0 (lb) 4000	0 (mV) 20			0 120
-9 CCL 1	3' Travel Time			Maximum Amplitude
GCT_Temp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

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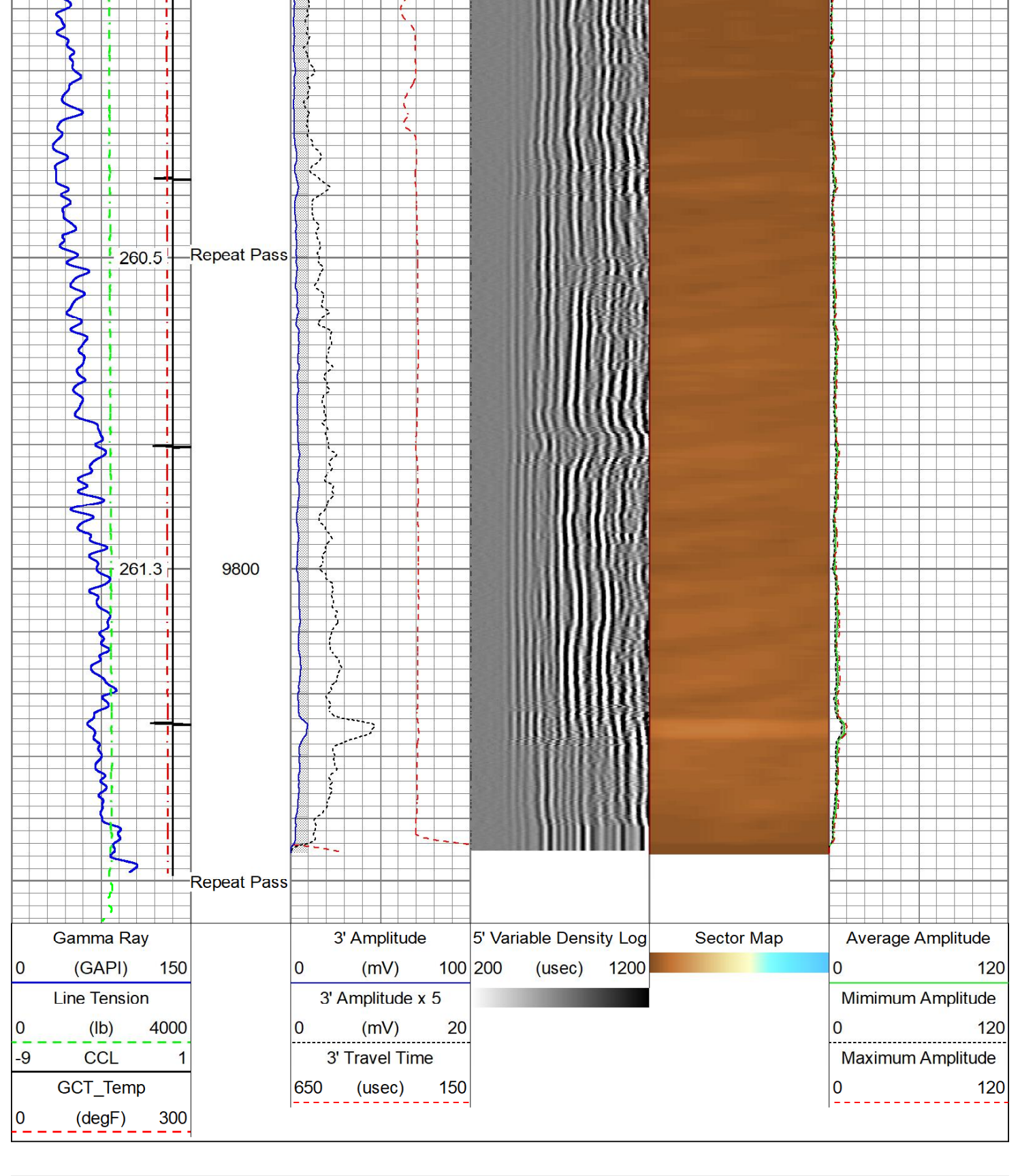
Repeat Pass 5" = 100' (0 PSI)

Database File	laramie_cc 0697-10-13e_rcbl_cnl.db
Dataset Pathname	repeat
Presentation Format	twgrcbl
Dataset Creation	Sun Jul 20 09:52:36 2025
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	3' Travel Time			Maximum Amplitude
GCT_Temp	650 (usec) 150			0 120
0 (degF) 300				



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	3' Travel Time			Maximum Amplitude
GCT_Temp	650 (usec) 150			0 120
0 (degF) 300				

Calibration Report

Database File	laramie_cc 0697-10-13e_rcbl_cnl.db
Dataset Pathname	main
Dataset Creation	Sun Jul 20 09:58:27 2025

Compensated Neutron Calibration Report

Model:	CNT - 275Dig
Serial Number:	110503dig

SHOP CALIBRATION Mon Jan 30 15:31:15 2023

	Cal Tube	Units
Tank Ratio	11.6940	SS/LS
LS Detector	70.03	cps
SS Detector	776.60	cps
Tool Ratio	11.0899	SS/LS
Tool Gain	1.0545	----

Gamma Ray Calibration Report

Serial Number:	110255	
Tool Model:	GCT_275_0001	
Performed:	Fri May 5 10:50:03 2023	
Calibrator Value:	151.6	GAPI
Background Reading:	65.3	cps
Calibrator Reading:	295.7	cps
Sensitivity:	0.6579	GAPI/cps

Inclinometer Calibration Report

Performed: Fri May 5 10:59:25 2023

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-904.00	895.00	-1.00	1.00	gee
Y Accelerometer	-908.00	898.00	-1.00	1.00	gee
Z Accelerometer	9.93	-894.87	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number:	120662	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	57.667	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.002	0.971	0.250	81.196	83.520	0.106
CAL	0.001	0.766				
5'	0.008	0.749	0.250	81.196	109.238	-0.574
SUM						
S1	0.003	1.091	0.000	100.000	91.976	-0.320
S2	0.003	1.055	0.000	100.000	95.124	-0.315
S3	0.005	1.064	0.000	100.000	94.370	-0.426
S4	0.004	1.047	0.000	100.000	95.872	-0.426
S5	0.001	1.007	0.000	100.000	99.440	-0.148
S6	0.004	0.950	0.000	100.000	105.767	-0.440
S7	0.003	0.971	0.000	100.000	103.349	-0.322
S8	0.001	1.048	0.000	100.000	95.522	-0.114

Internal Reference Calibration, performed (Not Performed):

	Raw (v)		Calibrated (v)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
CAL	0.000	0.000	0.001	0.766	1.000	0.000

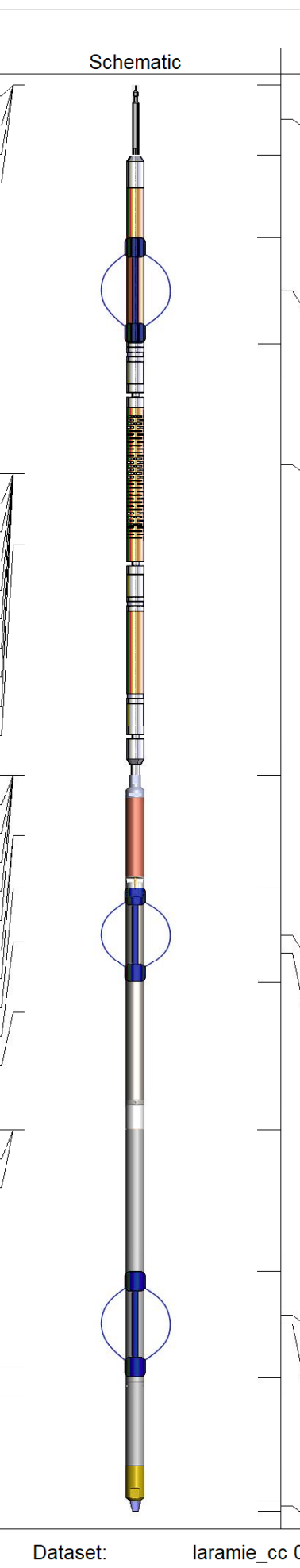
Air Zero Calibration, performed Thu Jul 17 10:25:55 2025:

	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

Inclinometer Calibration Report

Performed: (Not Performed)

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	0.00	1.00	0.00	1.00	gee
Y Accelerometer	0.00	1.00	0.00	1.00	gee
Z Accelerometer	0.00	1.00	0.00	1.00	gee



Sensor	Offset (ft)	Description	Length (ft)	O.D. (in)	Weight (lb
GCT_FMWR mSec_Count RBT_Status Error_Ct	20.13 20.13 20.13 20.13	Cable-Head-Titan 1 7/16" Cable Head	1.00	1.44	1.00
		SO BS CENT-2750-5500 Slip Over 2-3/4" I.D. for 5-1/2" O.D. Casing Bow Spring Centralizer	1.50	3.25	11.00
WVFS8 WVFS7 WVFS6 WVFS5 WVFS4 WVFS3 WVFS2 WVFS1 WVF3FT WVF5FT	14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 14.63 13.63	RBT8acc-Probe275acc (120662) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
RBT_ACCZ RBT_ACCY RBT_ACCX GCT_HV WVFSYNC WVFCAL	10.38 10.38 10.38 10.38 10.38 10.38				
CCL$2 CCL$1	9.53 9.53	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	8.78 8.03 7.04	GCT_acc-GCT_275_0001 (110255) Probe 2.75" 6 Pin Gamma Ray - CCL w/ Temp	5.01	2.75	55.00
GCT_ACCZ GCT_ACCY GCT_ACCX	5.37 5.37 5.37				
		CNT-275Dig (110503dig) Probe Digital CNL	5.24	2.75	40.00
CNLSC CNSSC	2.05 1.61	SO BS CENT-2750-5500 Slip Over 2-3/4" I.D. for 5-1/2" O.D. Casing Bow Spring Centralizer	1.50	3.25	11.00
		Sealed-77835 77835	0.14	1.70	2.00

Dataset:	laramie_cc 0697-10-13e_rcbl_cnl.db: field/well/run1/main
Total length:	20.13 ft
Total weight:	240.00 lb
O.D.:	3.25 in

Company	Laramie Energy LLC		
Well	CC 0697-10-13E		
Field	Grand Valley		
County	Garfield	State	Colorado

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Radial Cement Bond
Gamma Ray
Casing Collar Log