Radial Bond
Gamma Ray
CCL, Temp

Company	PDC Energy
Well	Stugart 23N
Field	Wattenberg
County	Weld
State	Colorado

Company PDC Energy

Well Stugart 23N

Field Wattenberg

County Weld State Colorado

Location: API # : 05-123-51257

2151' FNL & 2011' FWL

SEC 20 TWP 5N RGE 66W

Other Services

None

Permanent Datum	GL	Elevation
Log Measured From	KB	
Drilling Measured From	KB	

Elevation

K.B.
D.F.
G.L.

Date	10-MAR-23		
Run Number	One		
Depth Driller	15445'		
Depth Logger	8095'		
Bottom Logged Interval	8092'		
Top Log Interval	Surface		
Open Hole Size	8.5		
Type Fluid	Water		
Density / Viscosity	8.33		
Max. Recorded Temp.	245°F		
Estimated Cement Top	See log		
Time Well Ready	ROA		
Time Logger on Bottom	17:50		
Equipment Number	303		
Location	Greeley, CO		
Recorded By	C. Walsh	G. Lueck	CAS3122023
Witnessed By	Billy Myers		

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	1734'
Prot. String				
Production String	5.5"	20#	Surface	15441'
Liner				

Final Print

<<< Fold Here >>>

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.

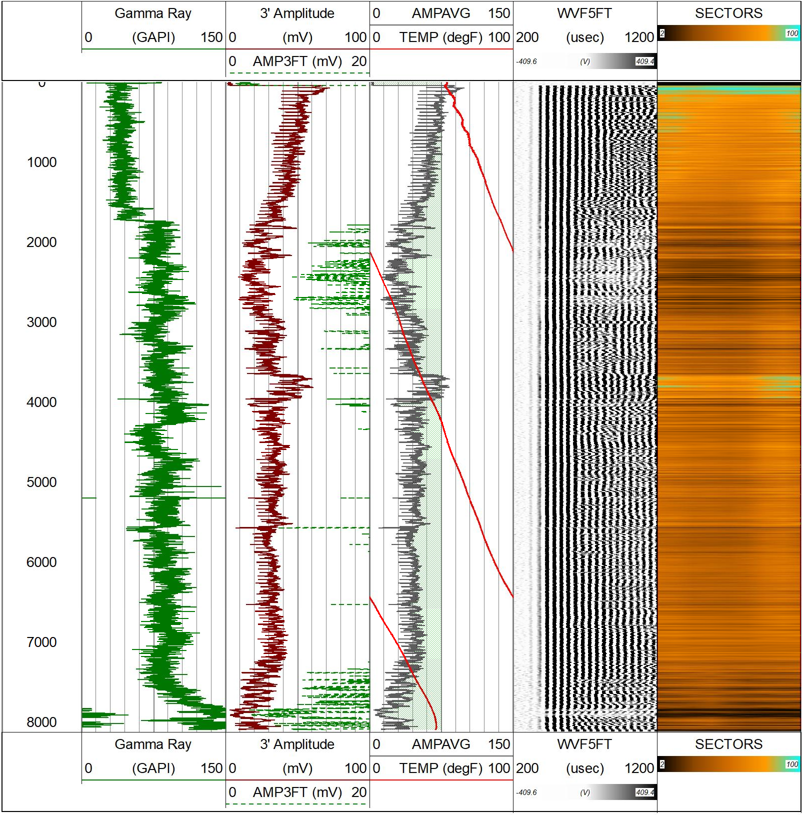
Comments

Log ran at Customer Request
Correlated to Marker Joint 7225.9' to 7248.2'

Thank You For Choosing GO Wireline!

Main Pass

Database File	pdc_stugart_23n_rcbl_31023.db
Dataset Pathname	merge1.1
Presentation Format	rbl_1inch_2020
Dataset Creation	Fri Mar 10 19:30:36 2023
Charted by	Depth in Feet scaled 1:15000



Main Pass

Database File	pdc_stugart_23n_rcbl_31023.db
Dataset Pathname	merge1.1
Presentation Format	rbl_all_8_2020_t
Dataset Creation	Fri Mar 10 19:30:36 2023
Charted by	Depth in Feet scaled 1:240

LTEN
0 (lb 1000
LSPD
(ft/min)
500 -500
0 CCL 100

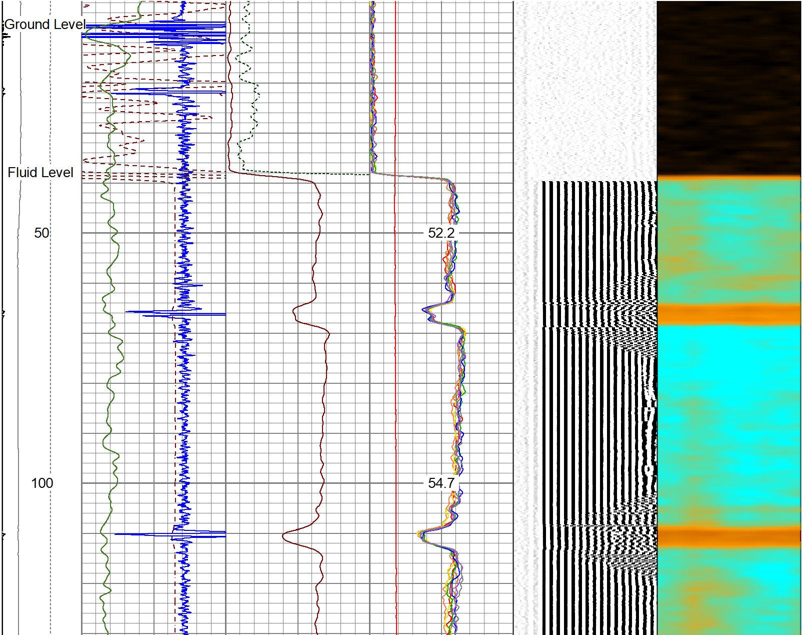
3' Travel Time
400 (usec) 200
Casing Collar Locator
GAMMA RAY
0 (GAPI) 200

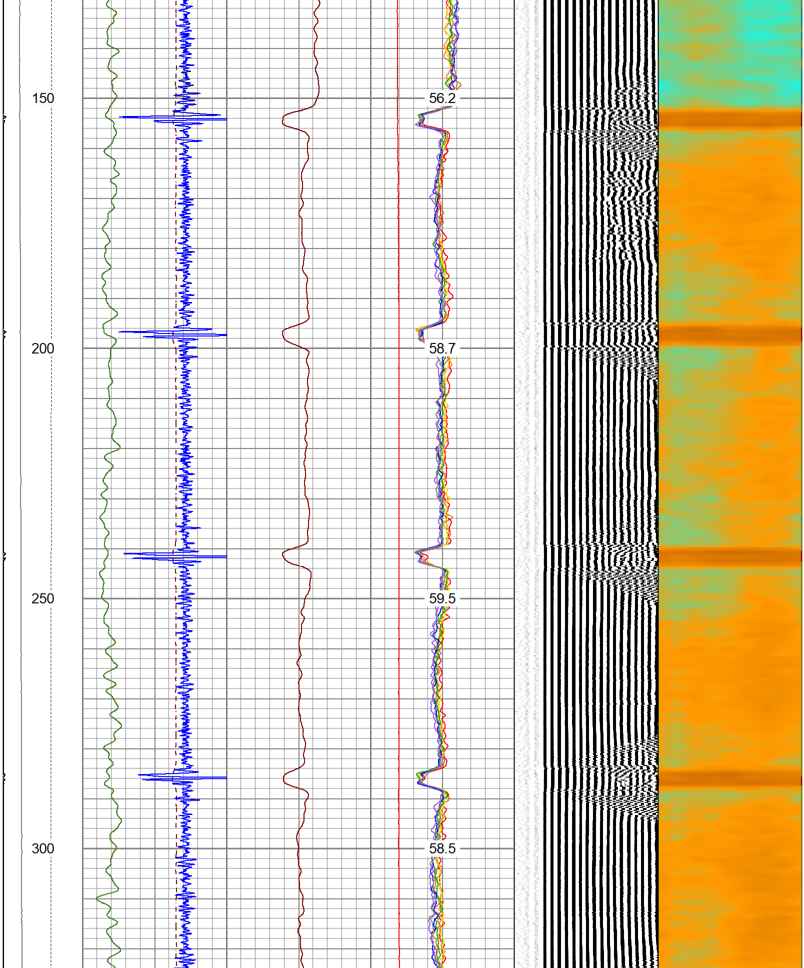
3' Amplitude
0 (mV) 100
3 'Amplified Amplitude
0 (mV) 20

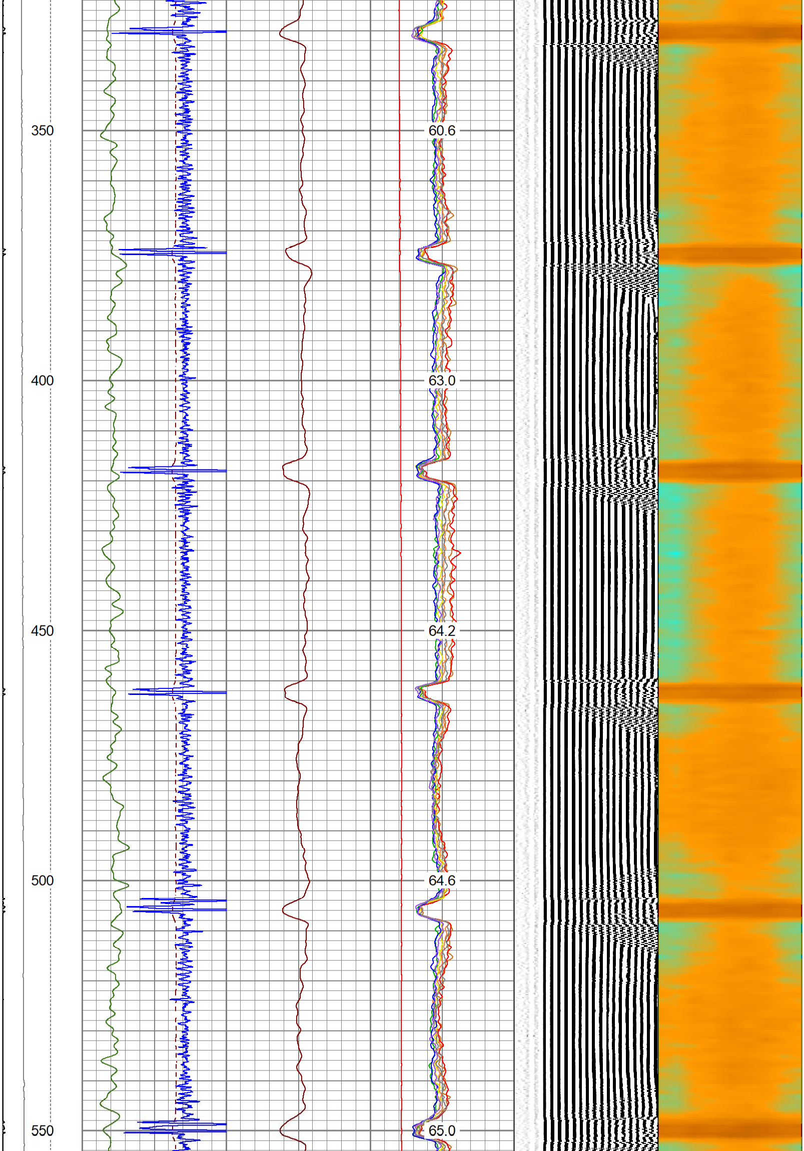
0 AMPS1 150
0 AMPS2 150
0 AMPS3 150
0 AMPS4 150
0 AMPS5 150
0 AMPS6 150
0 AMPS7 150
0 AMPS8 150
0 TEMP (degF) 300
TEMP
(degF)

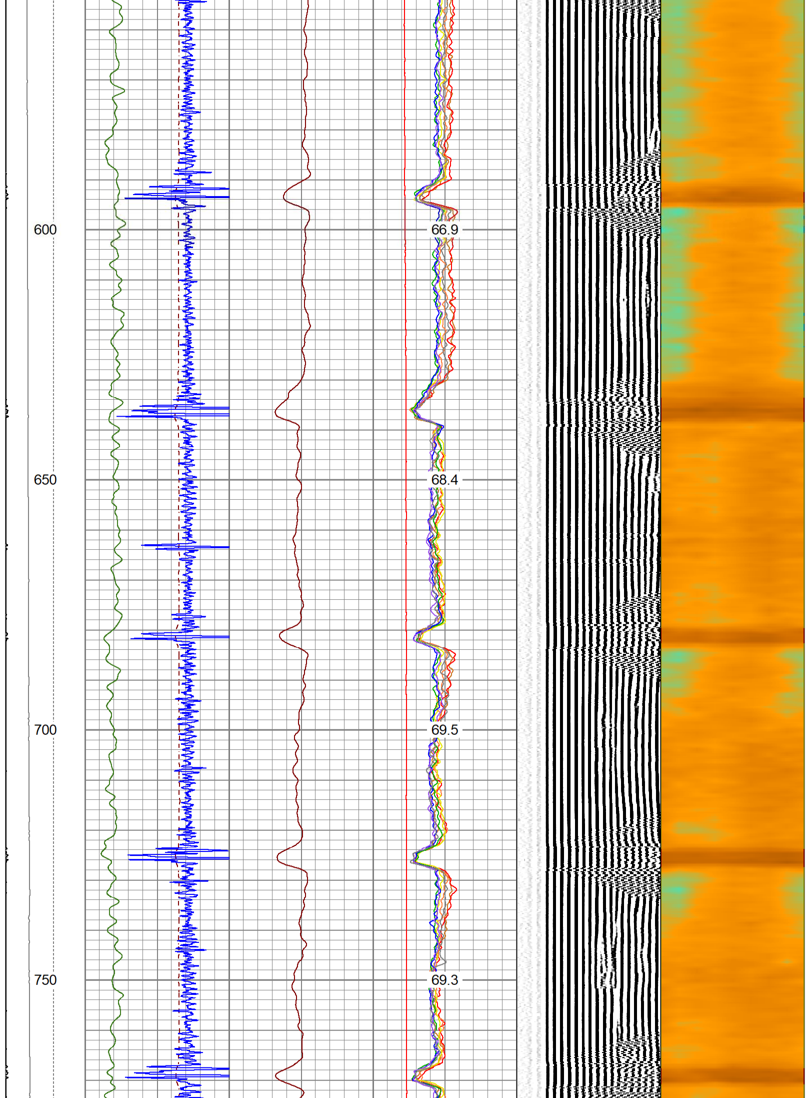
5' Variable Density
200 (usec) 1200
-409.6 (V) 409.4

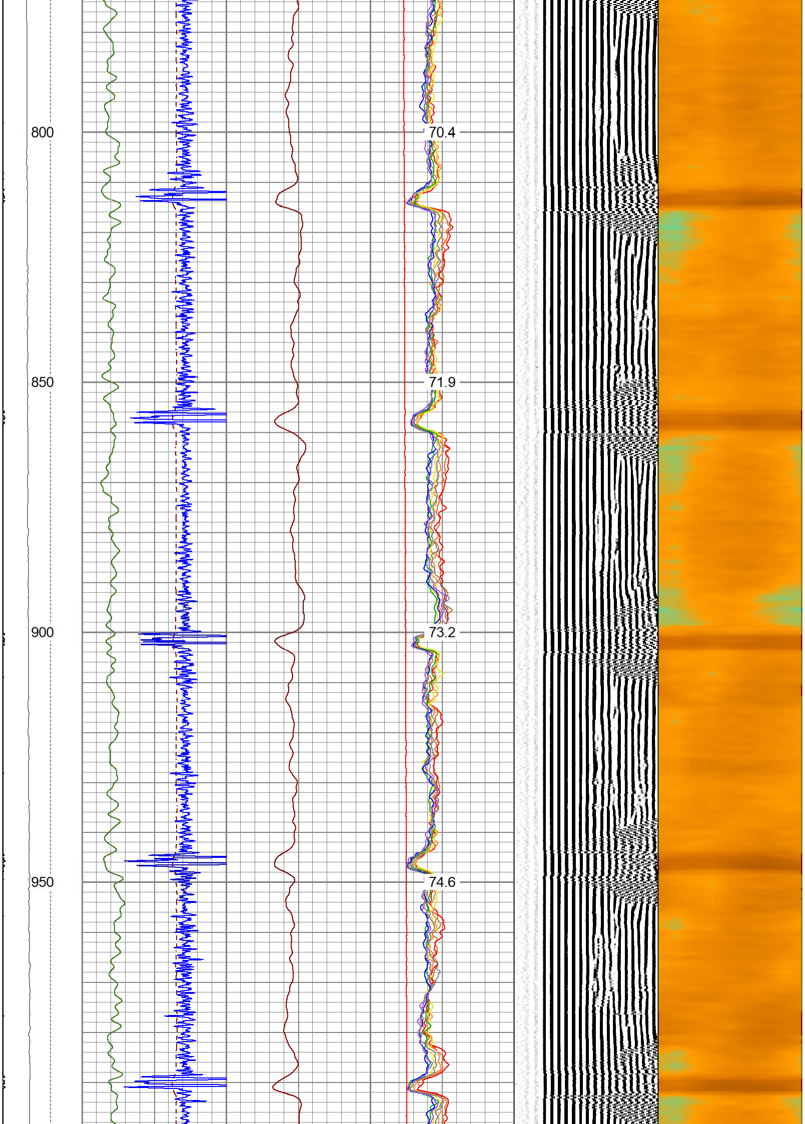
1 Sector Map 8
0 95

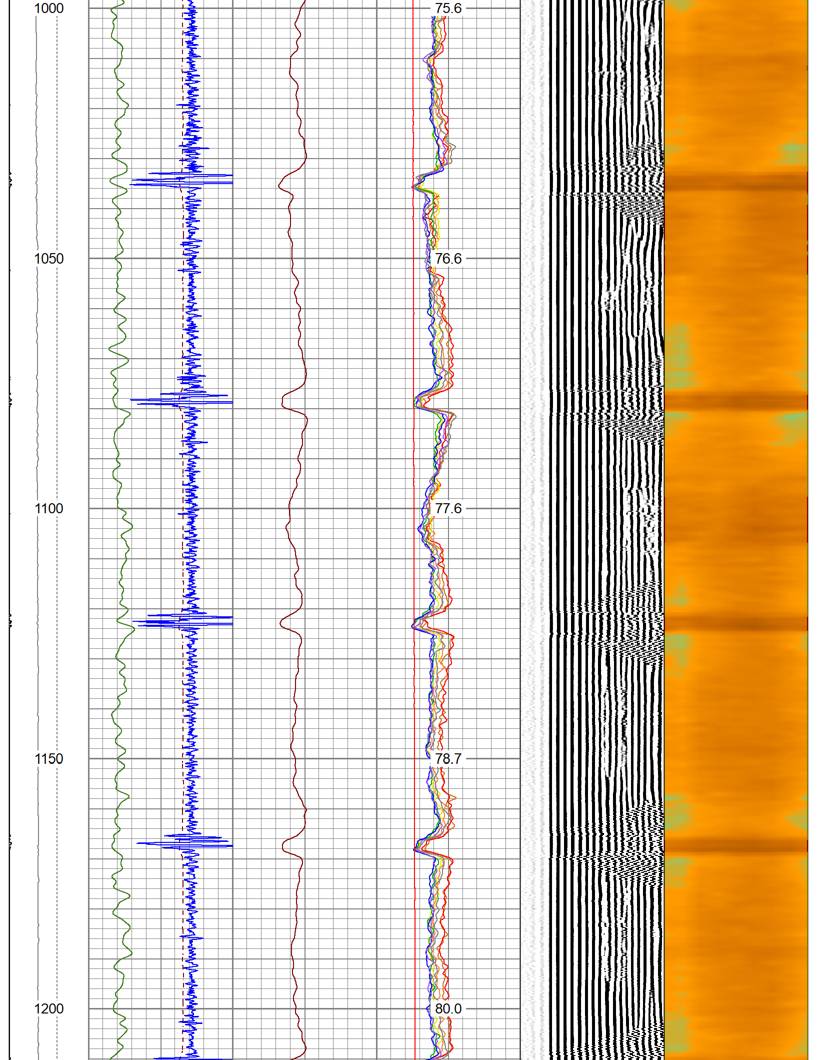


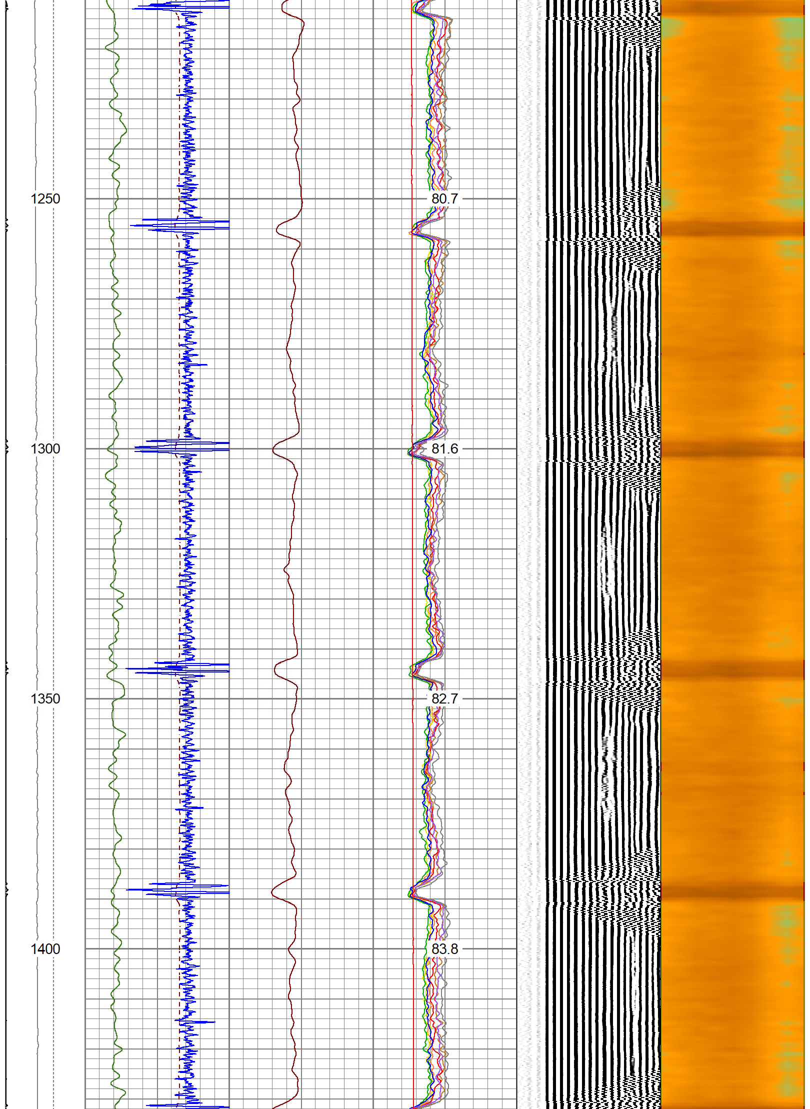


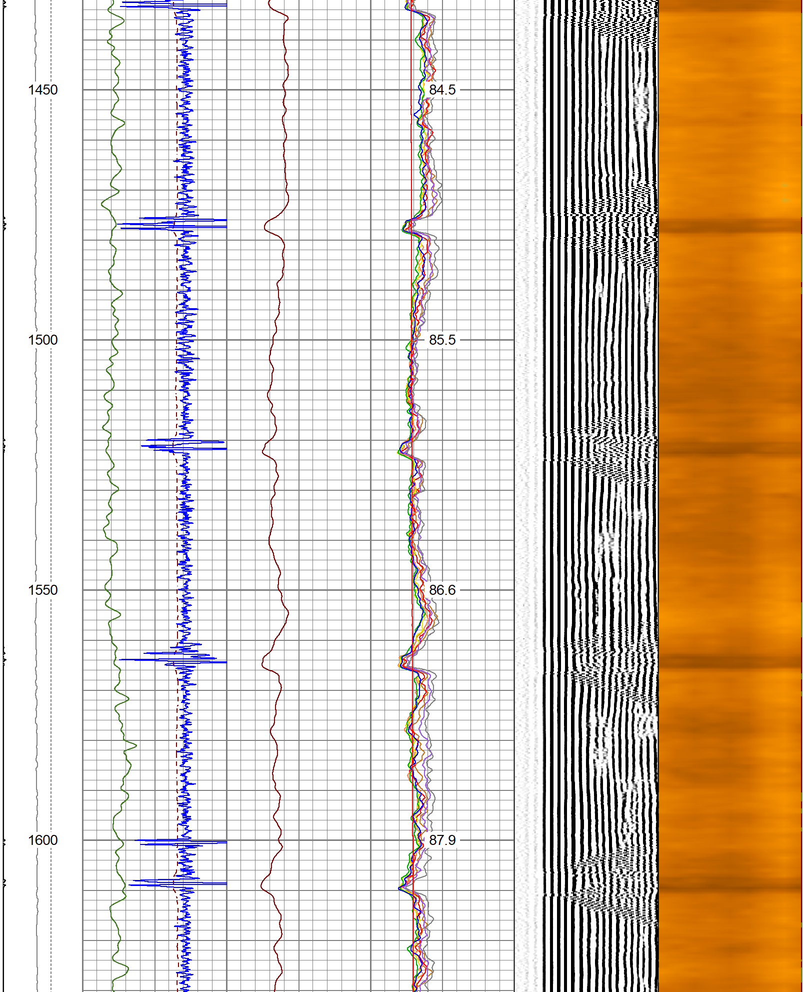


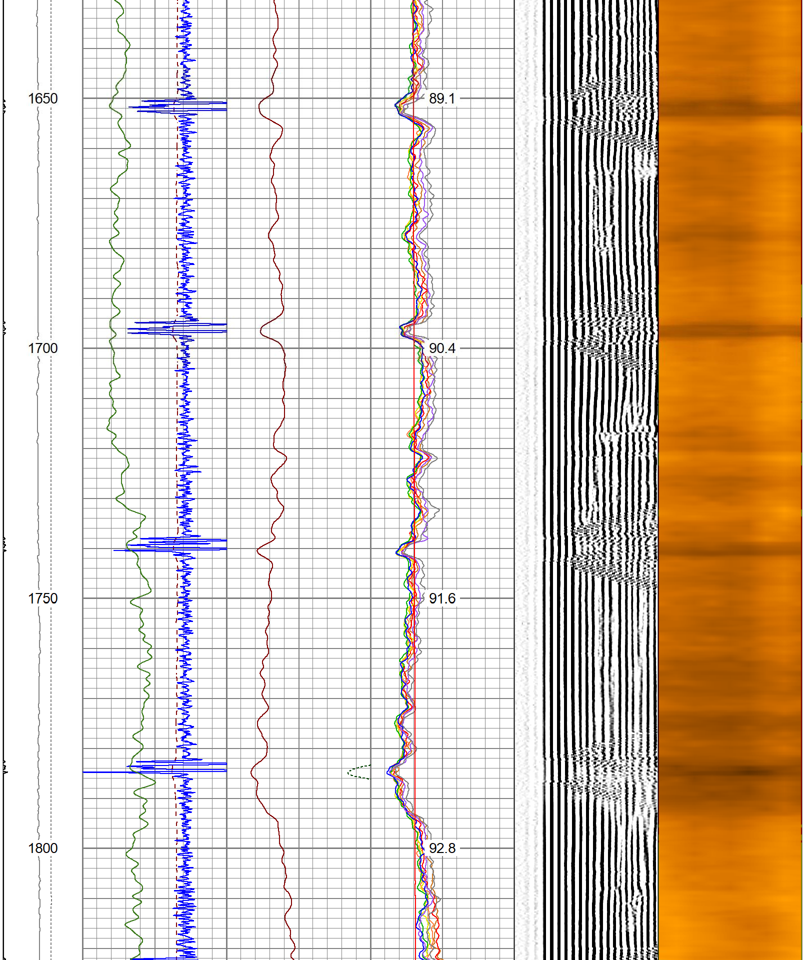


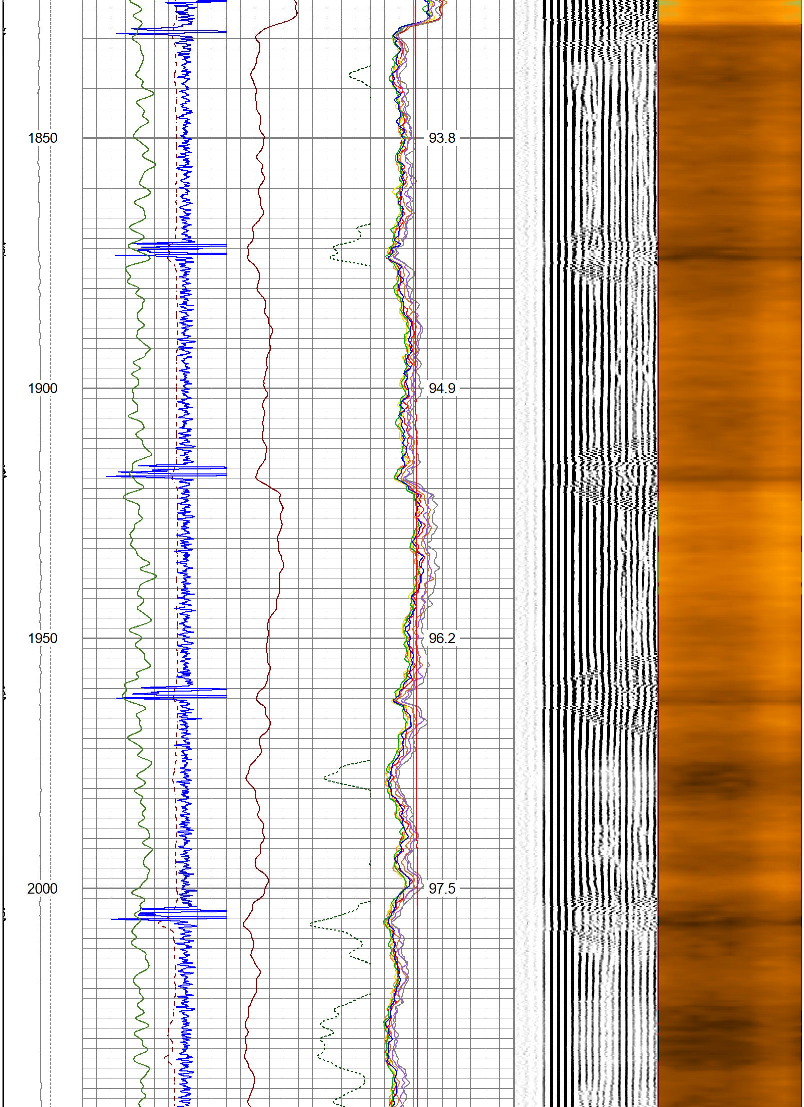


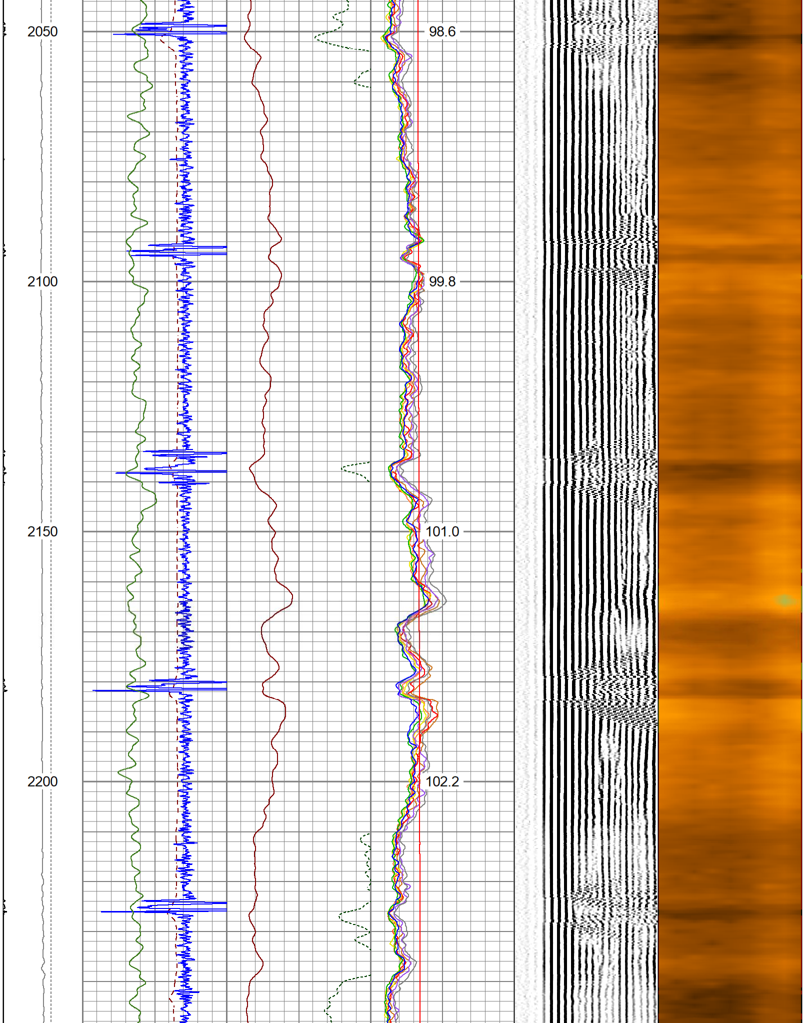


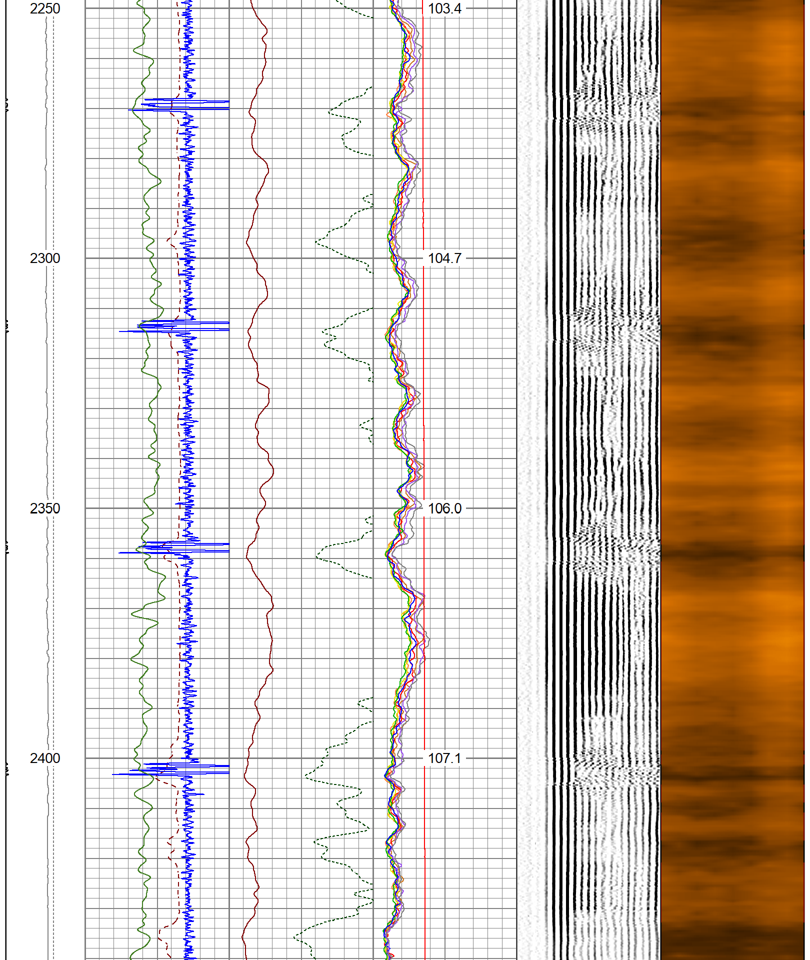


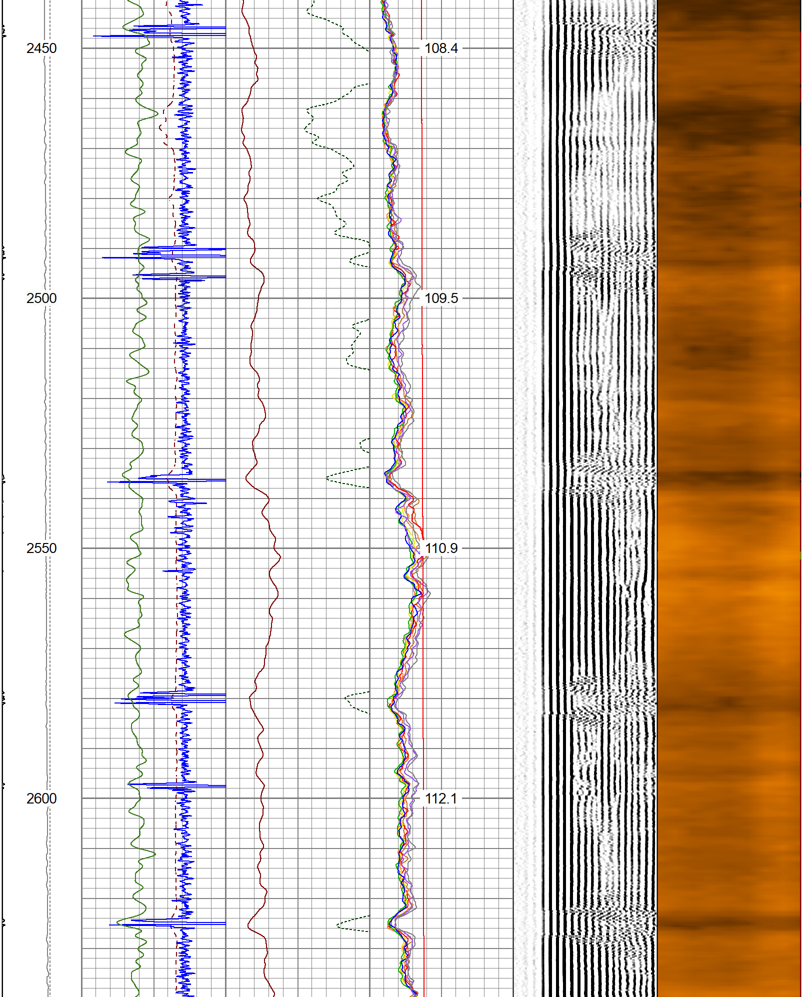


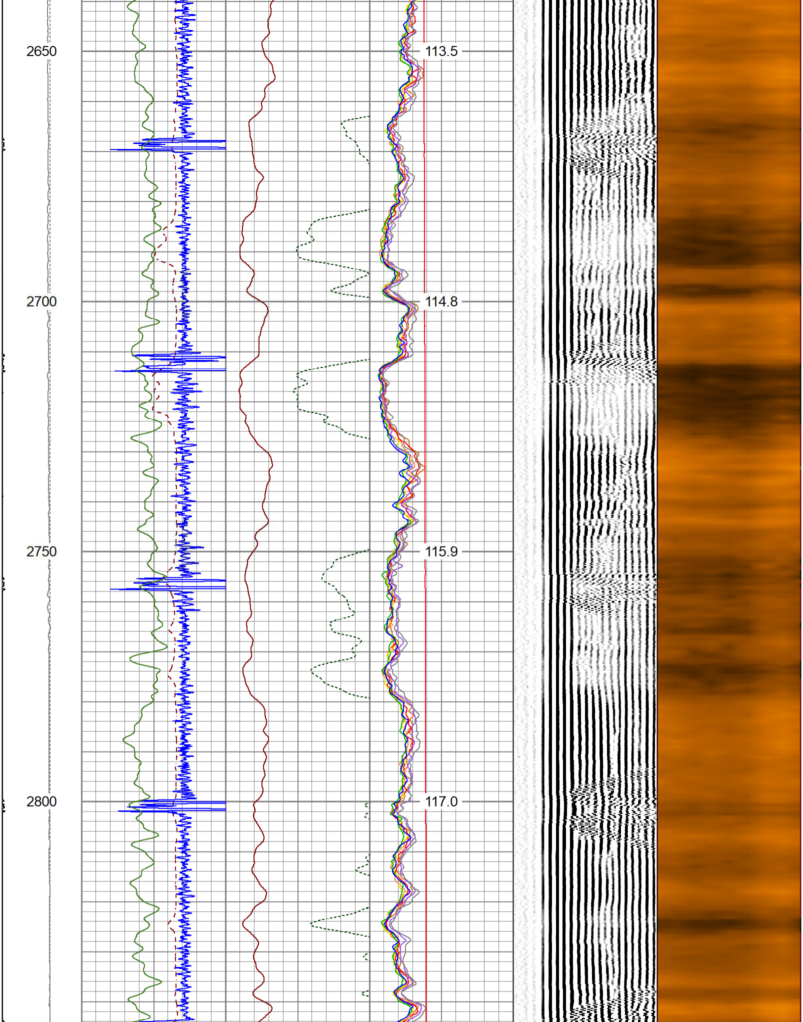


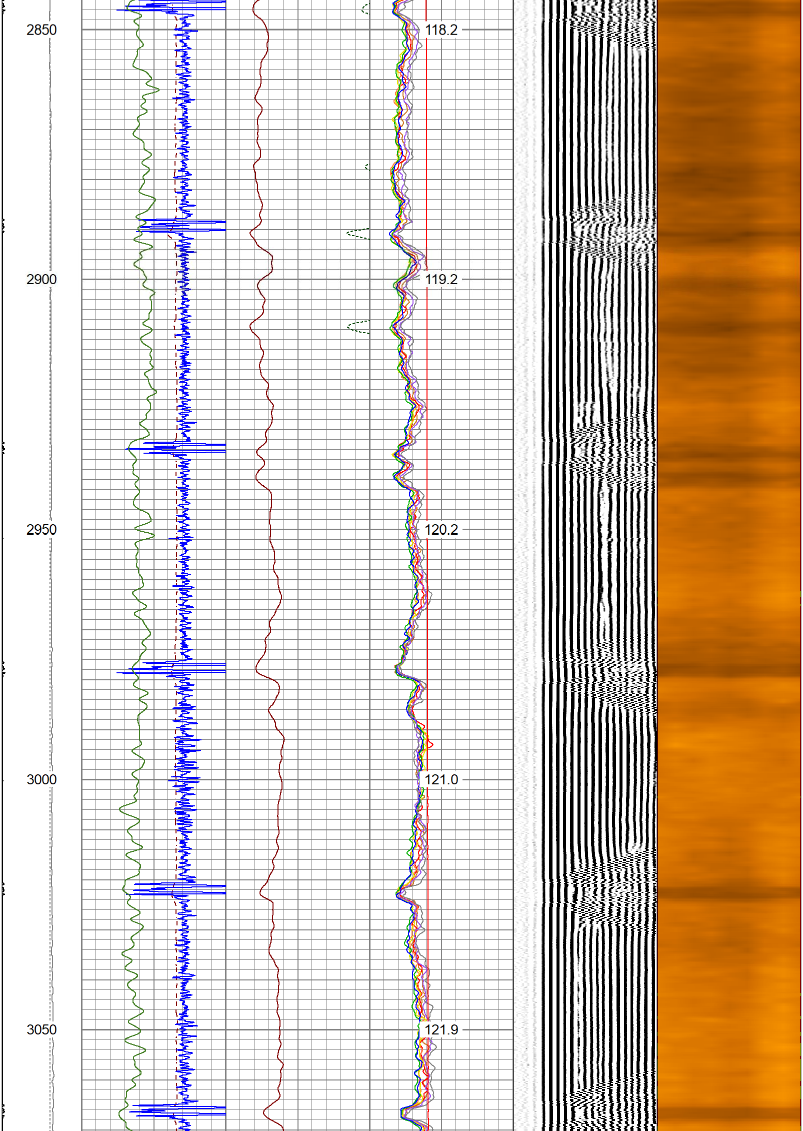


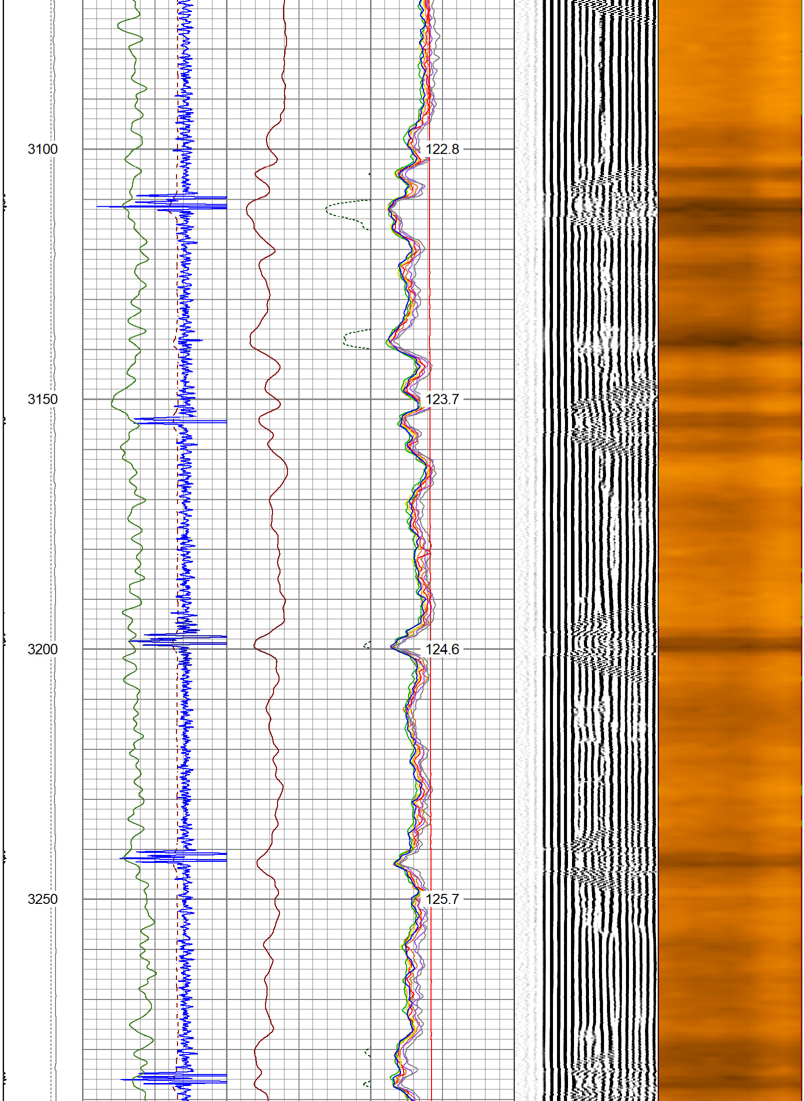


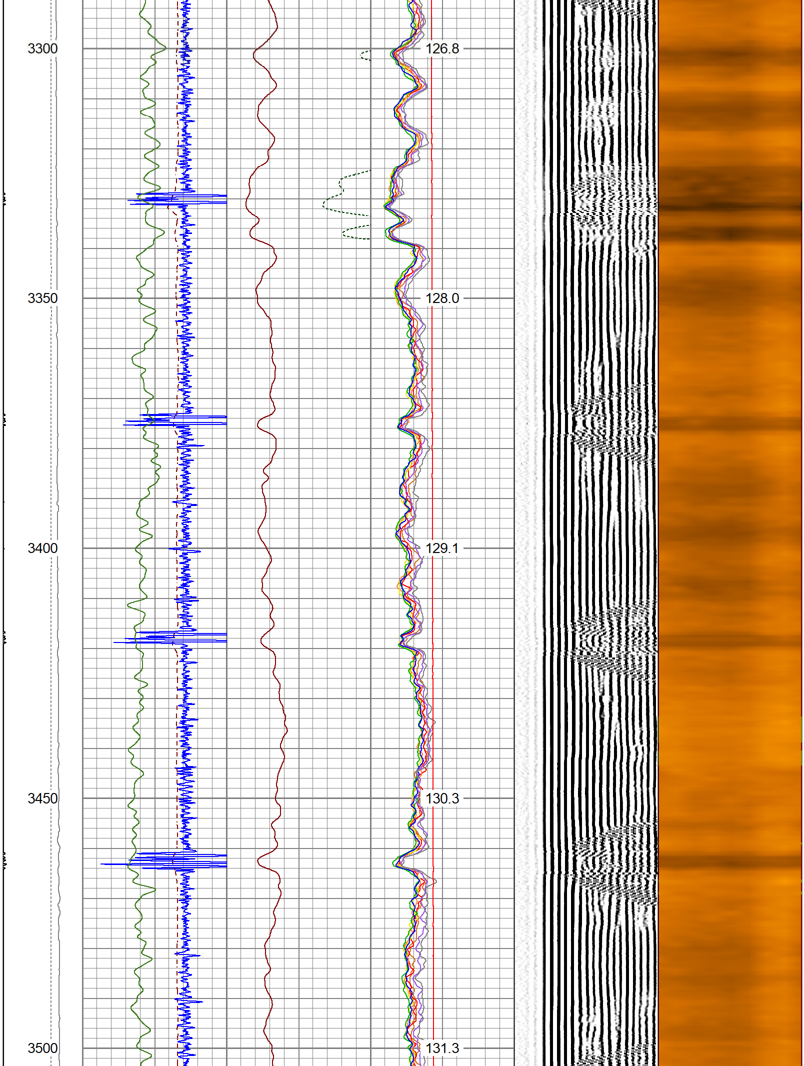


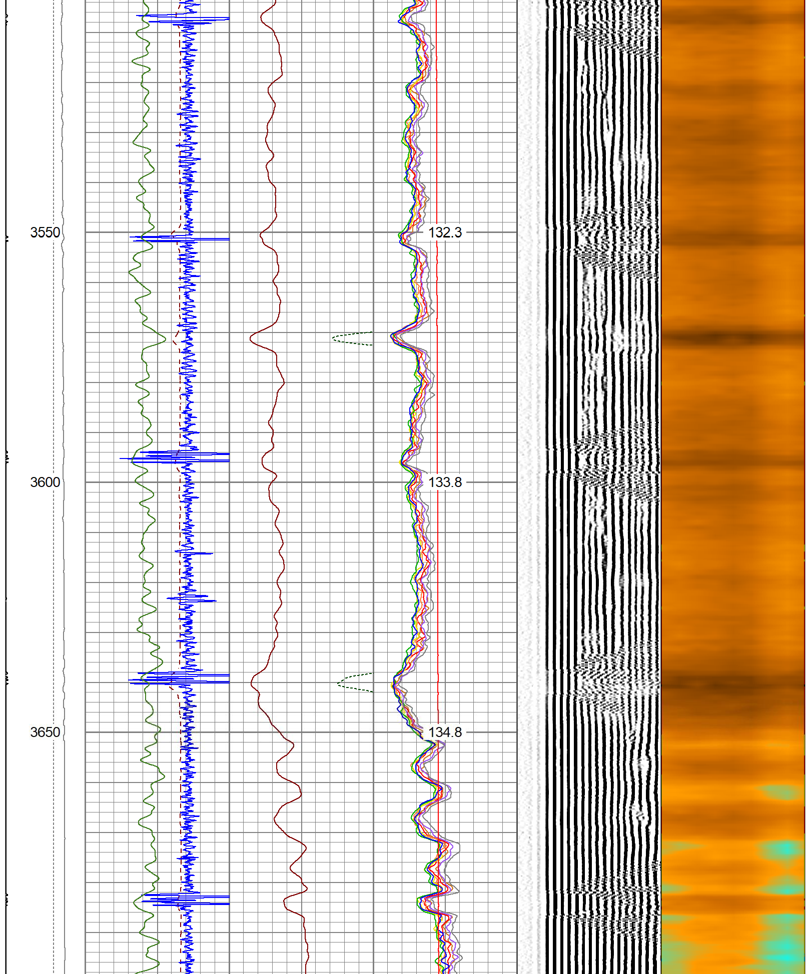








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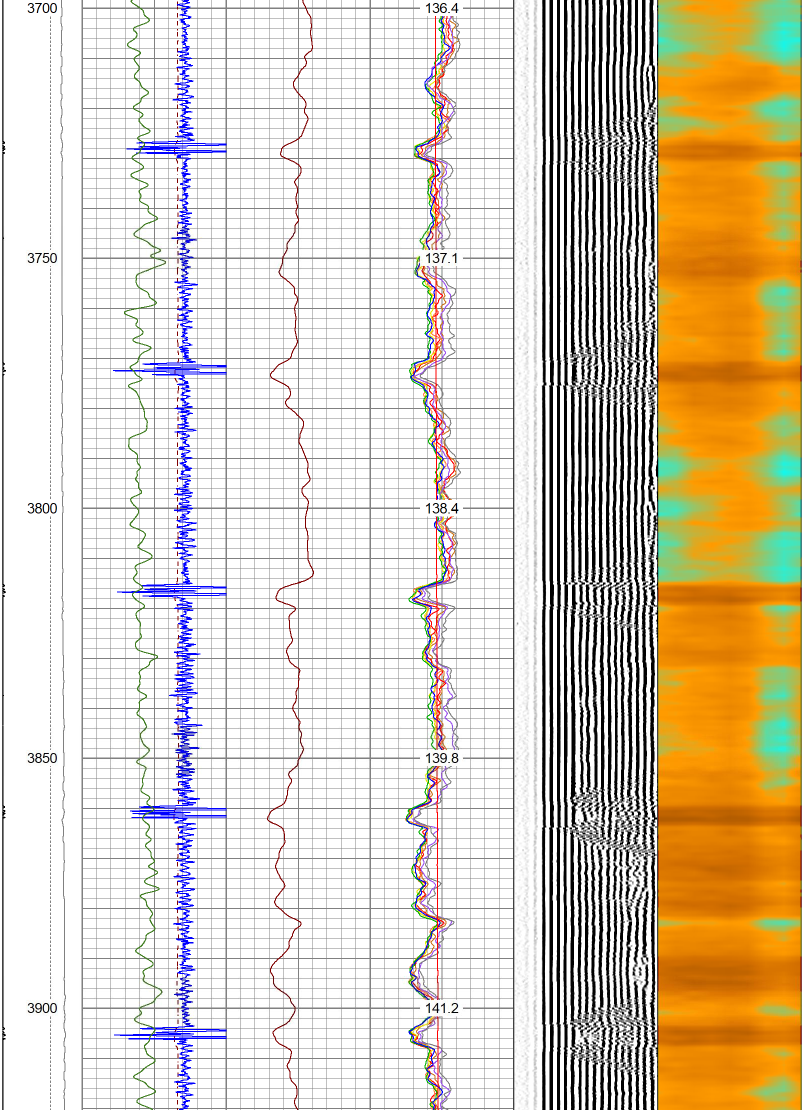
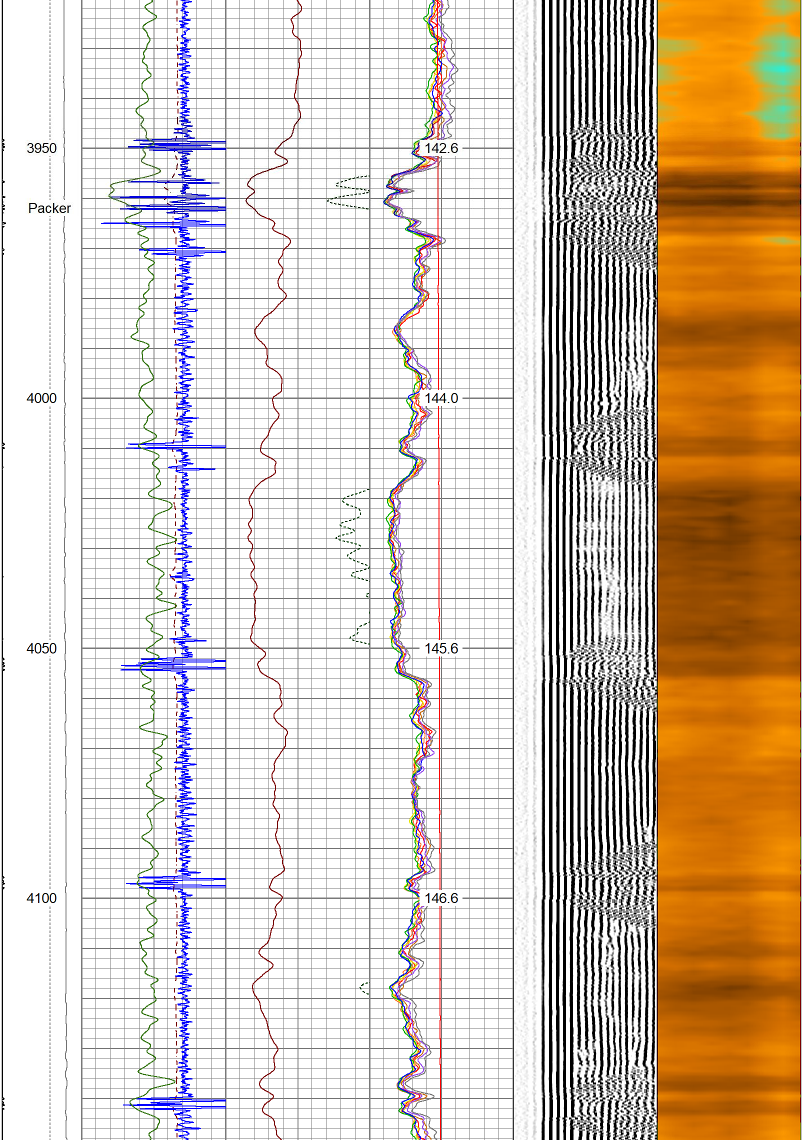
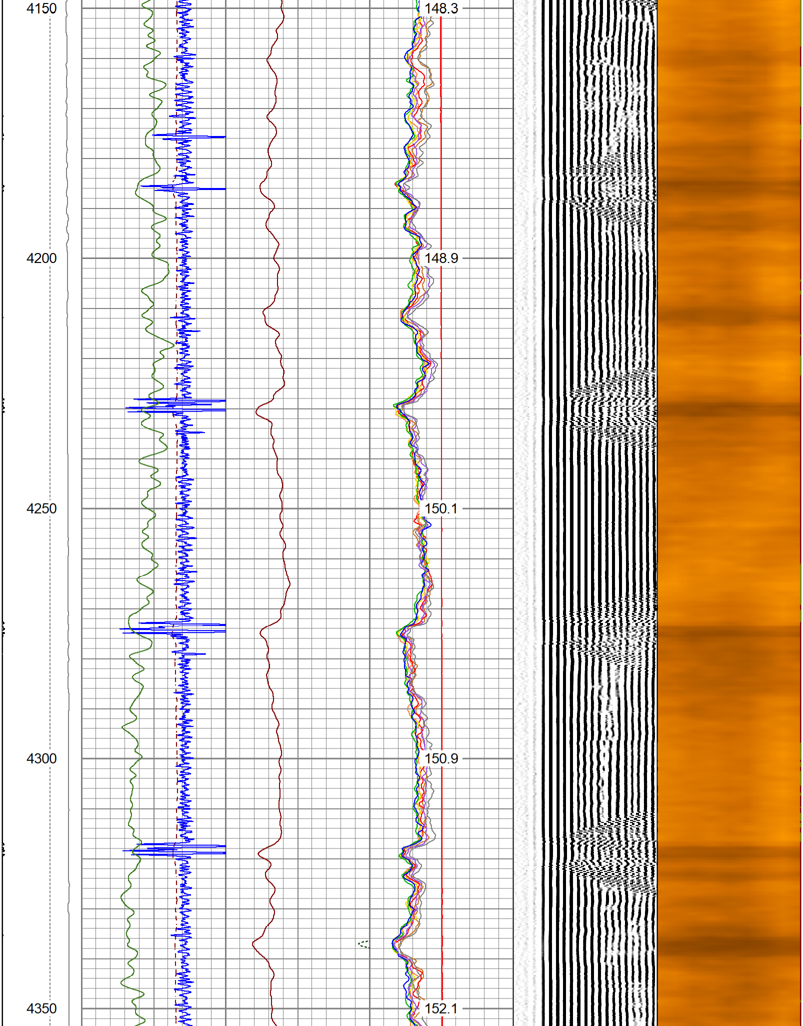
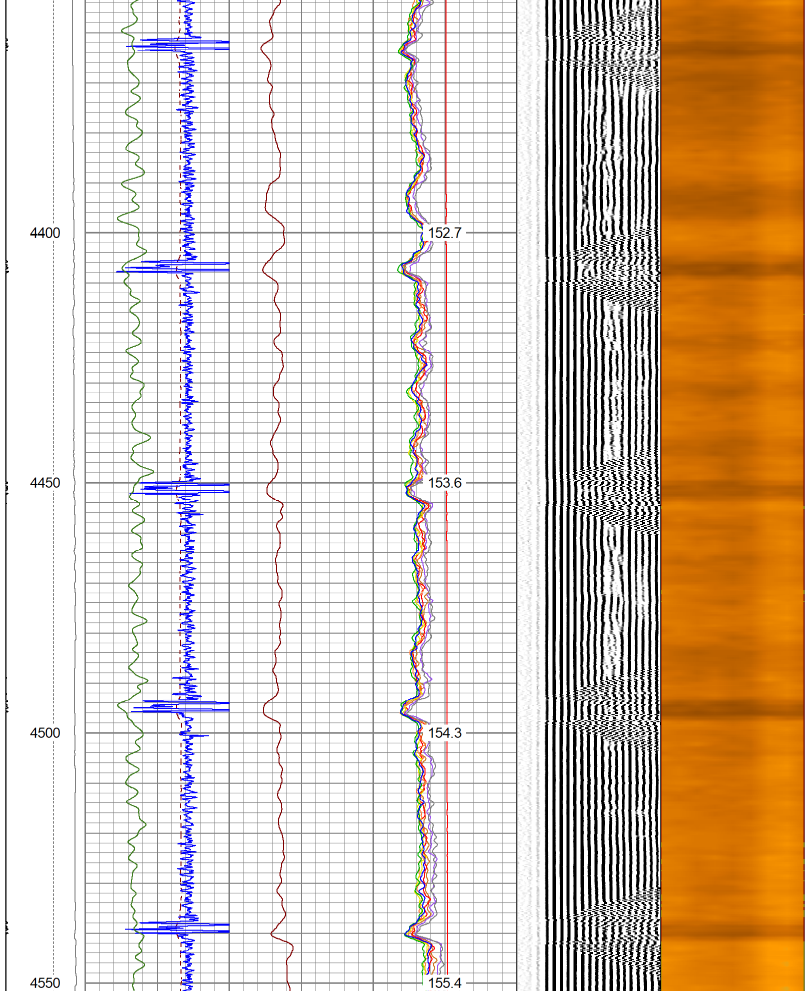
132.3
3600
133.8
3650
134.8


3700
136.4
3750
137.1
3800
138.4
3850
139.8
3900
141.2


3950
Packer
4000
4050
4100
142.6
144.0
145.6
146.6


4150
148.3
4200
148.9
4250
150.1
4300
150.9
4350
152.1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4450
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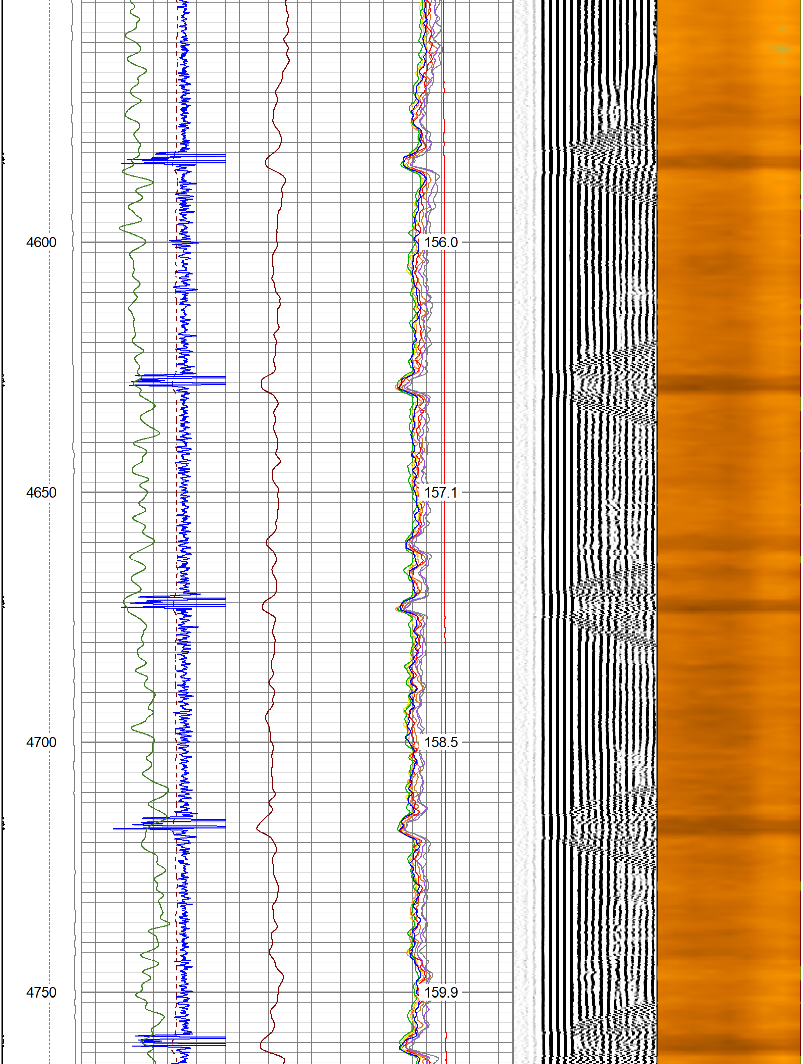
4550
152.7
153.6
154.3
155.4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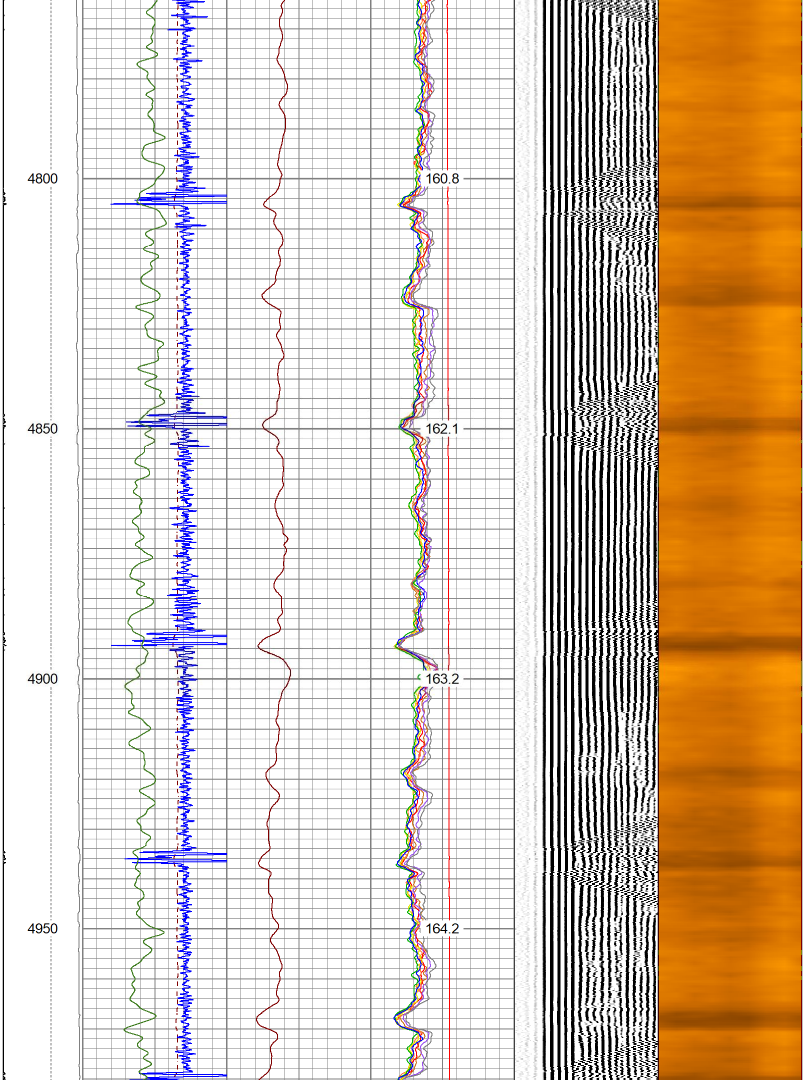
4650
157.1
4700
158.5
4750
159.9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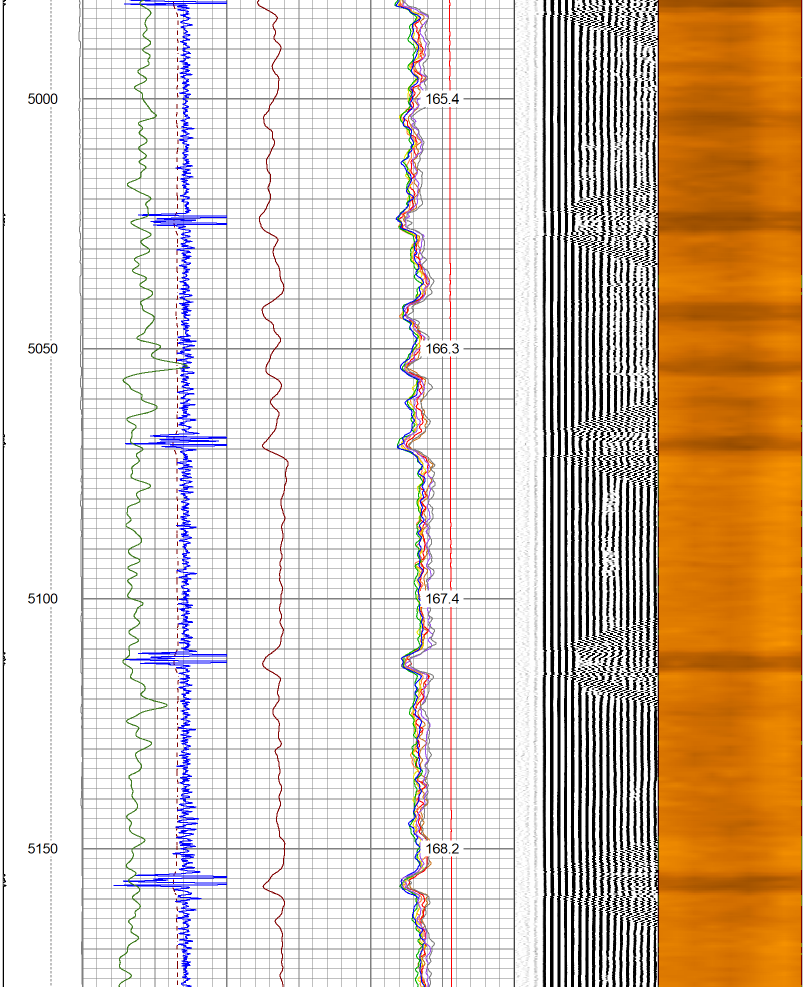
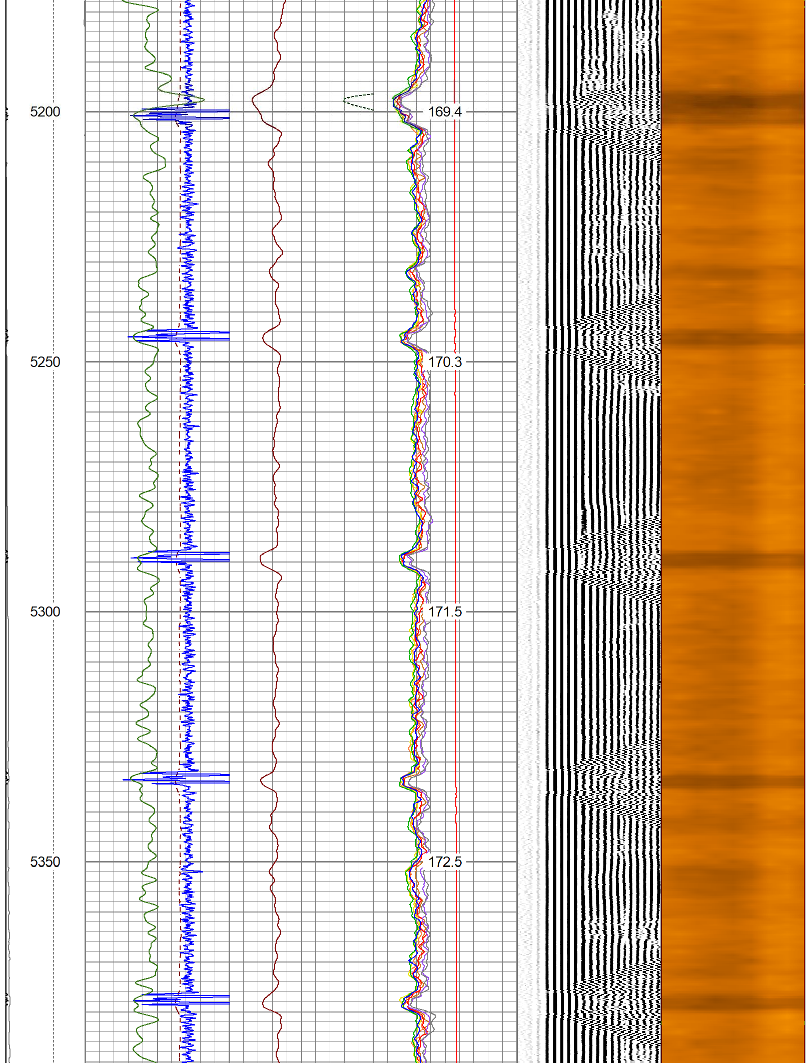
4850
162.1
4900
163.2
4950
164.2


5000
165.4
5050
166.3
5100
167.4
5150
168.2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169.4
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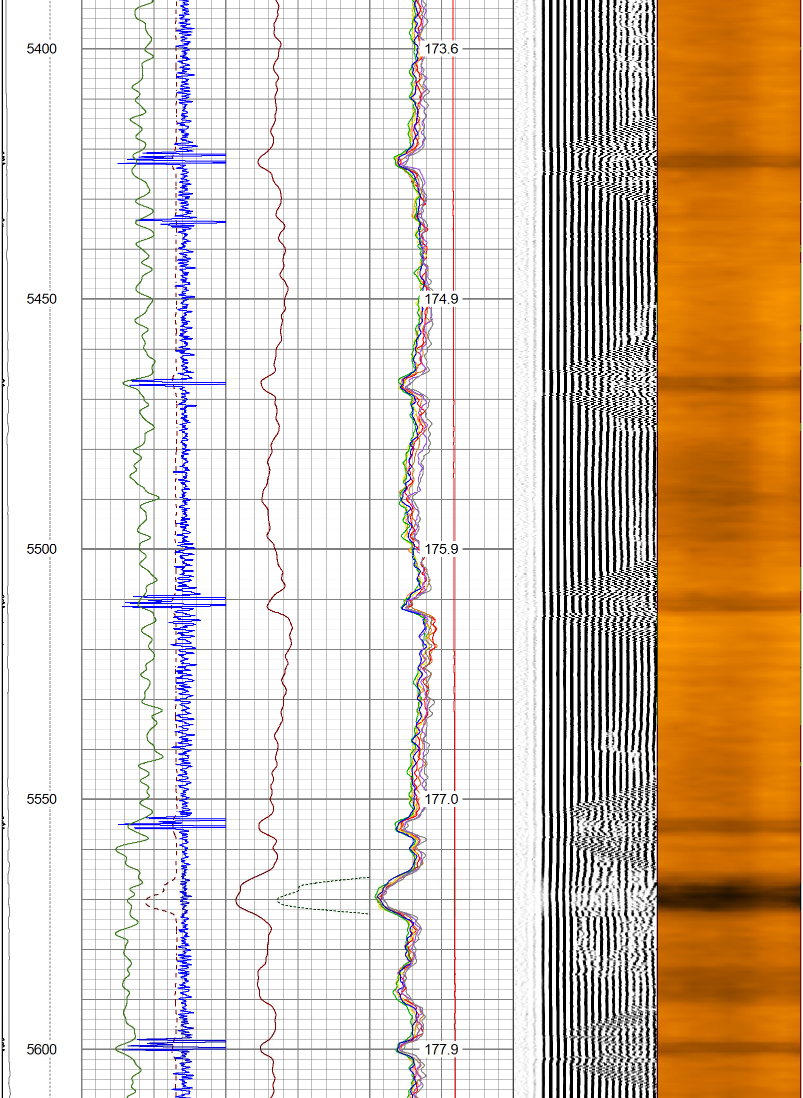
170.3
5300
171.5
5350
172.5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174.9
5500
175.9
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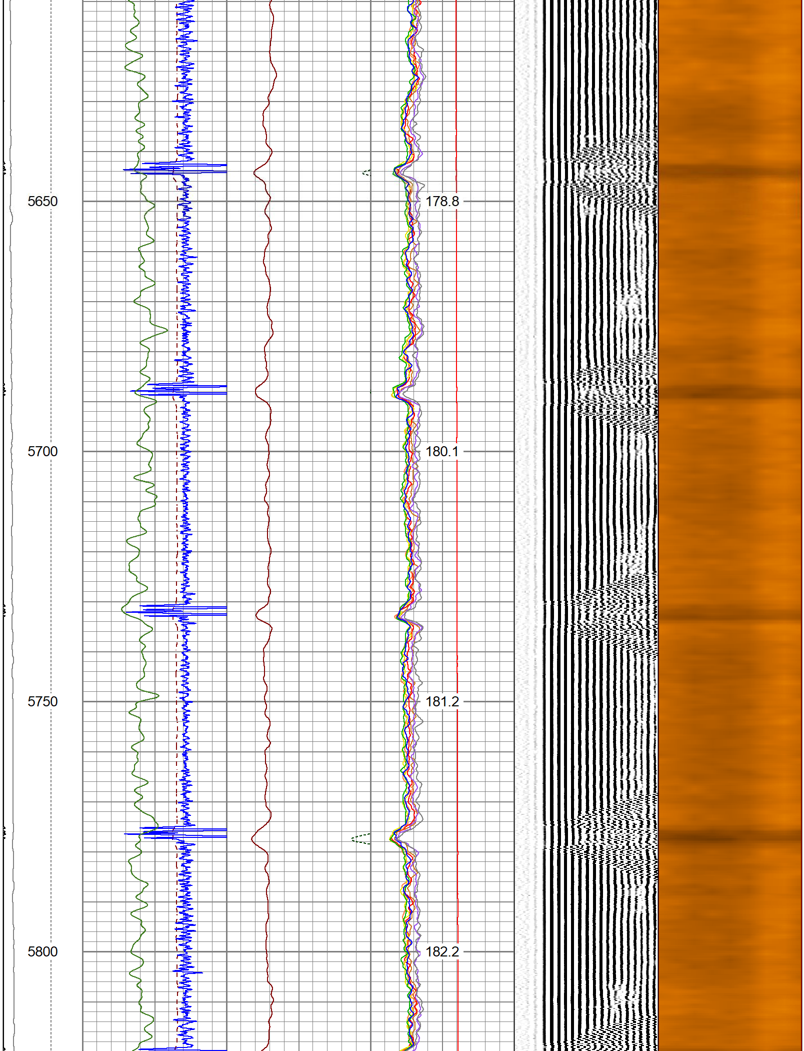
177.0
5600
177.9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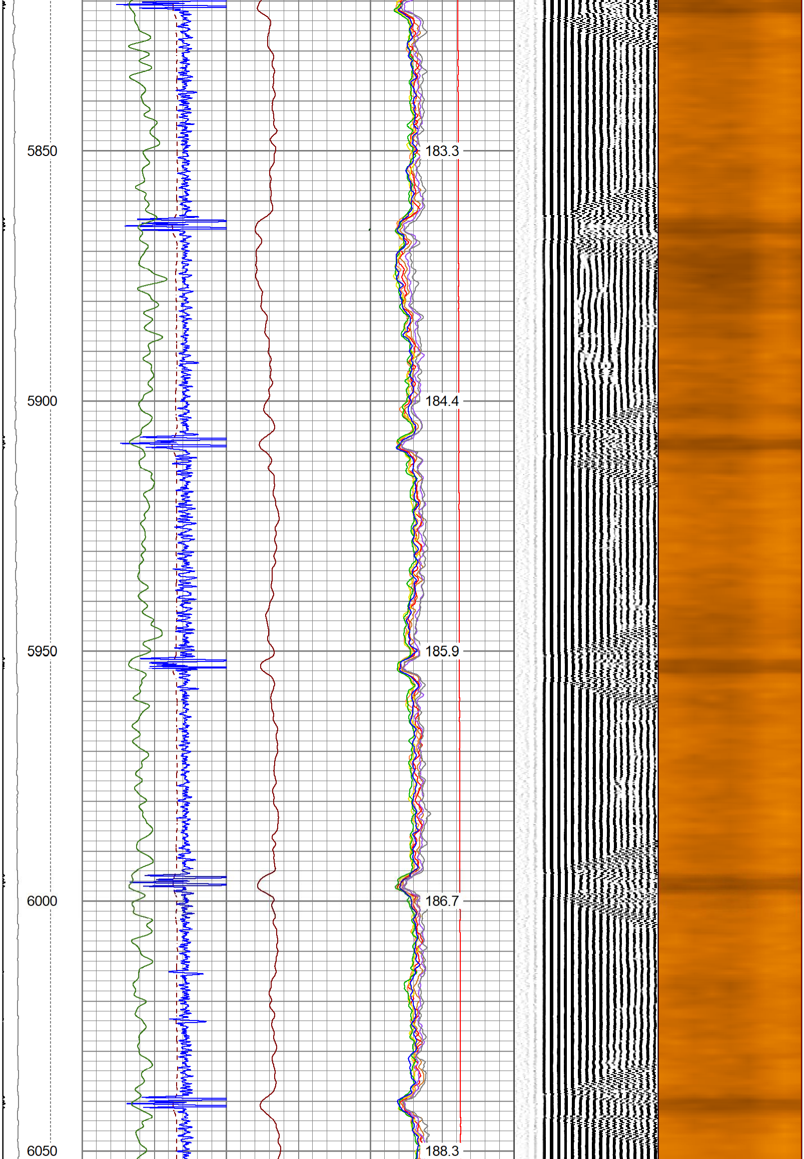
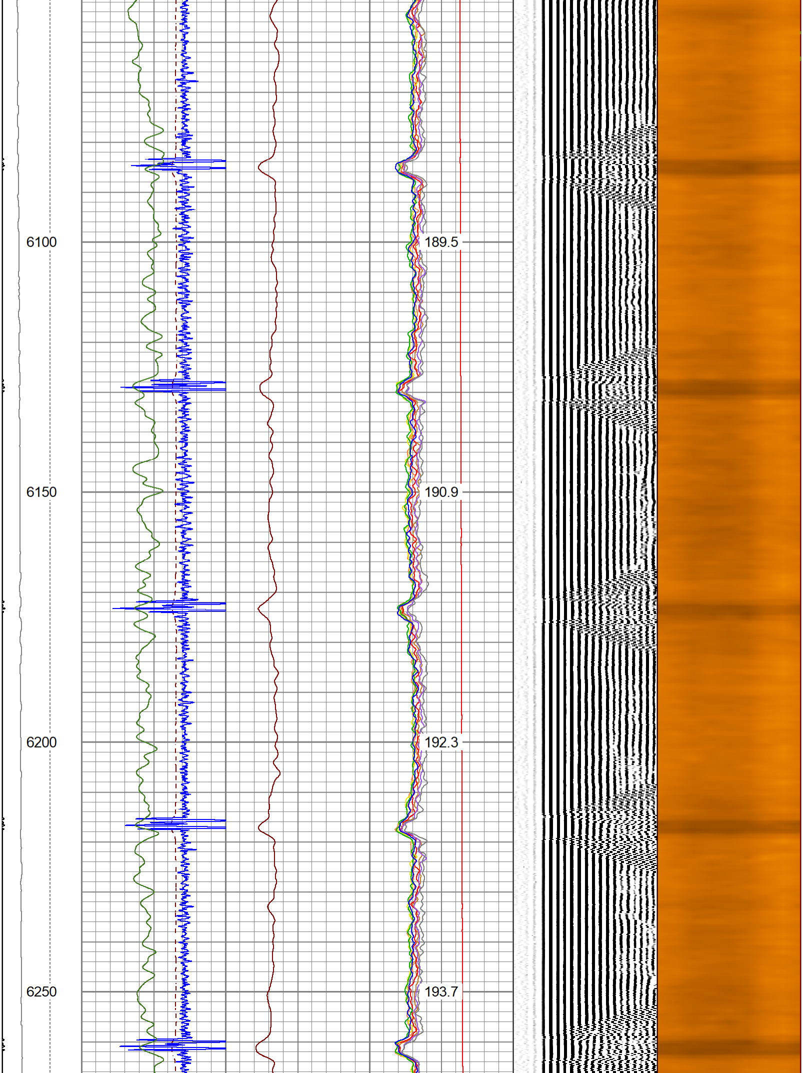
5750
181.2
5800
182.2


5850
183.3
5900
184.4
5950
185.9
6000
186.7
6050
188.3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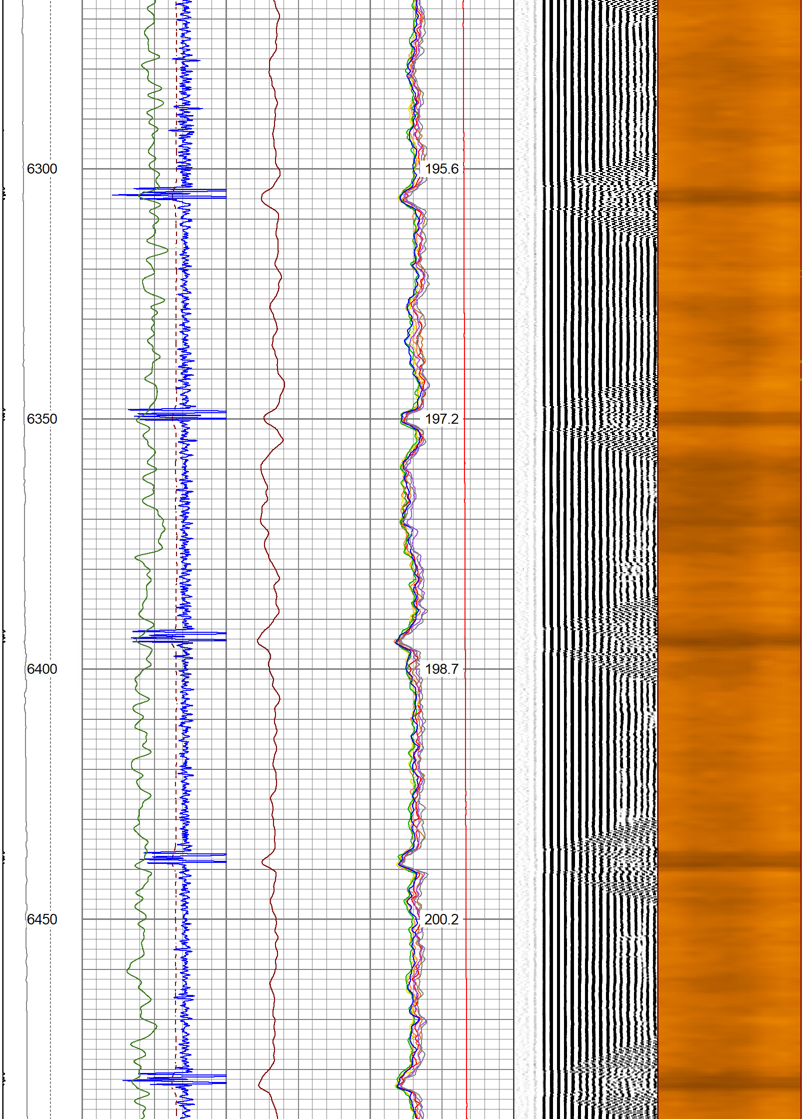
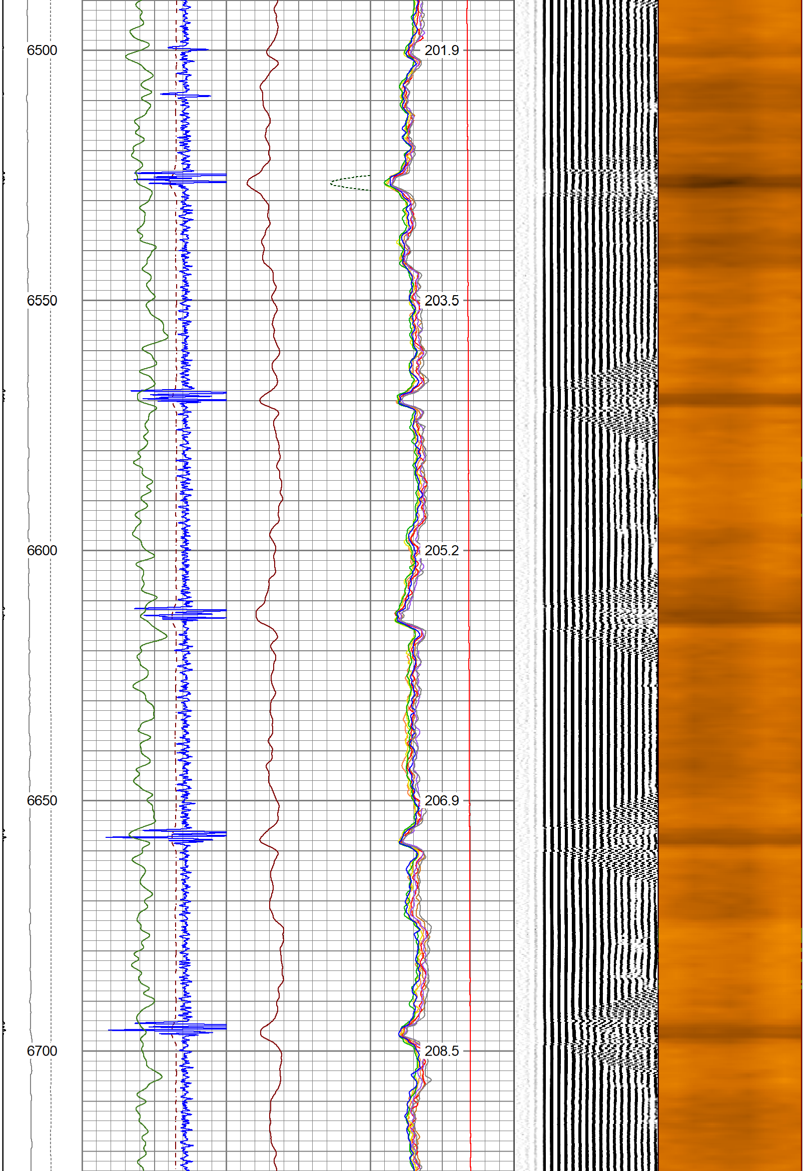
189.5
6150
190.9
6200
192.3
6250
193.7


6300
195.6
6350
197.2
6400
198.7
6450
200.2


6500
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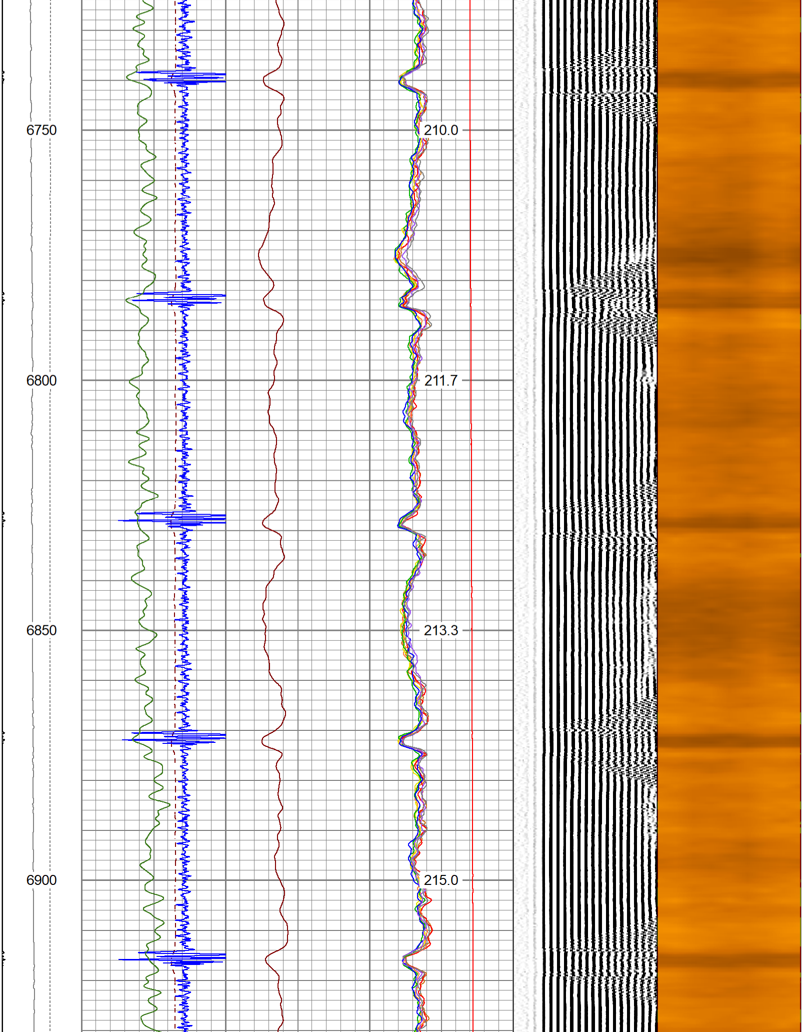
6550
203.5
6600
205.2
6650
206.9
6700
208.5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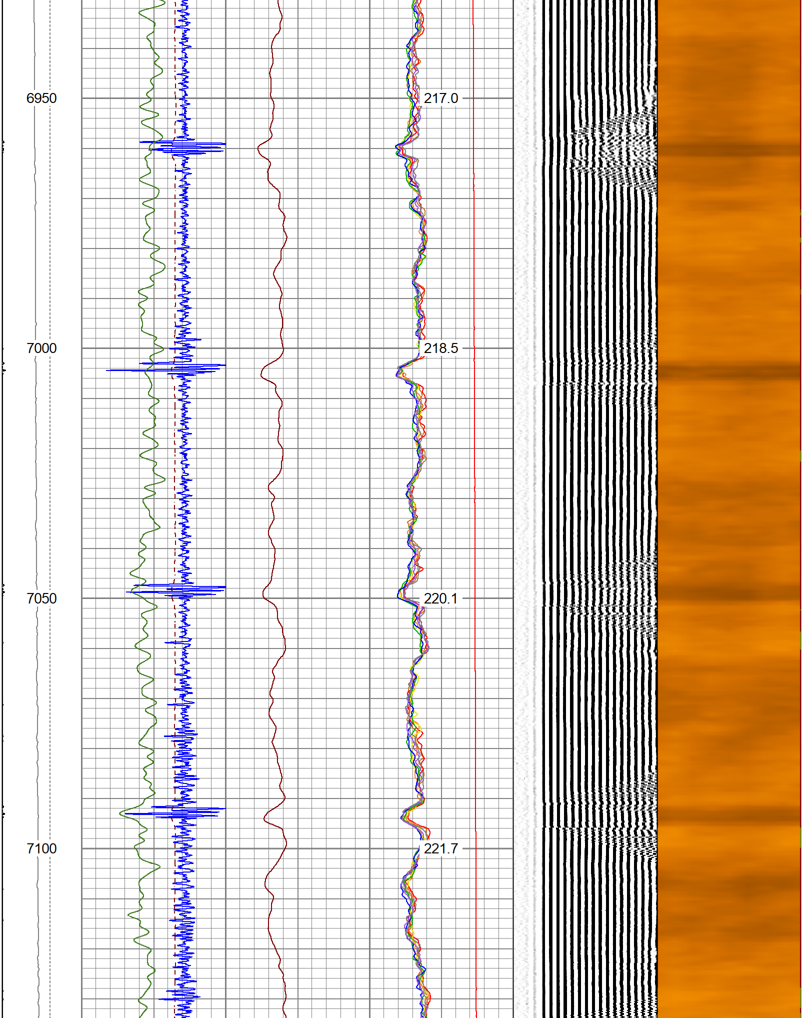
6800
211.7
6850
213.3
6900
215.0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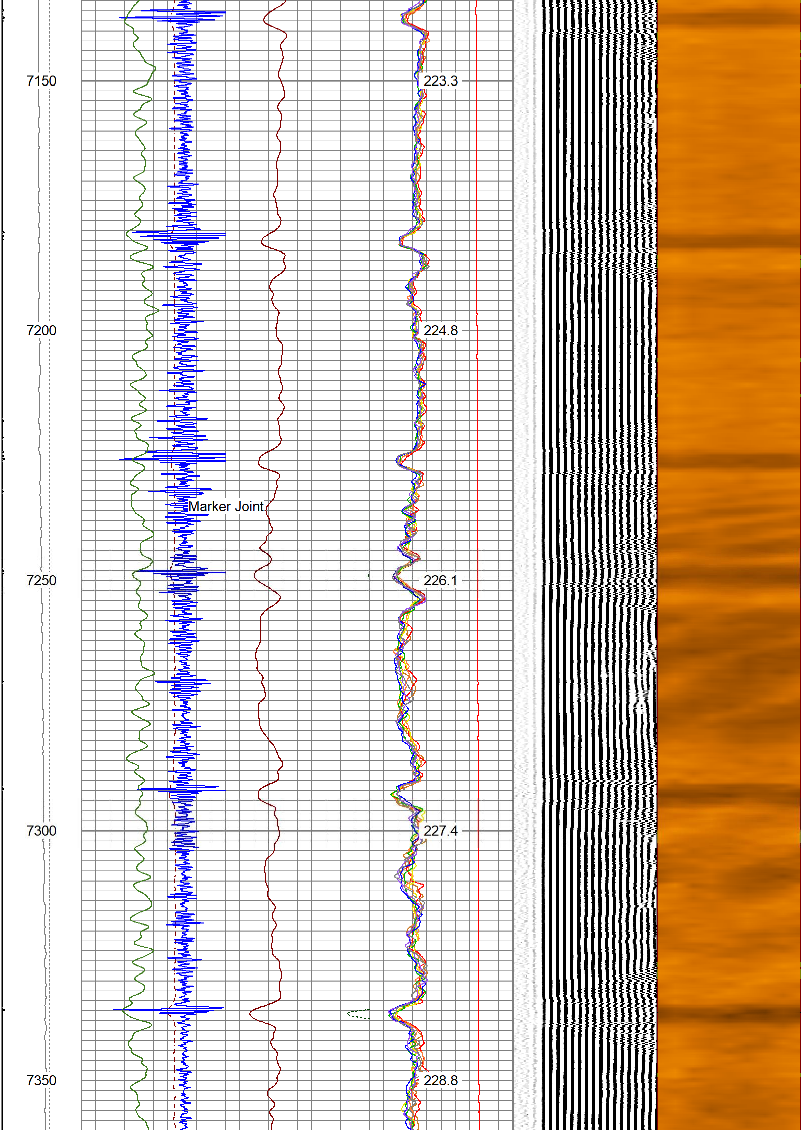
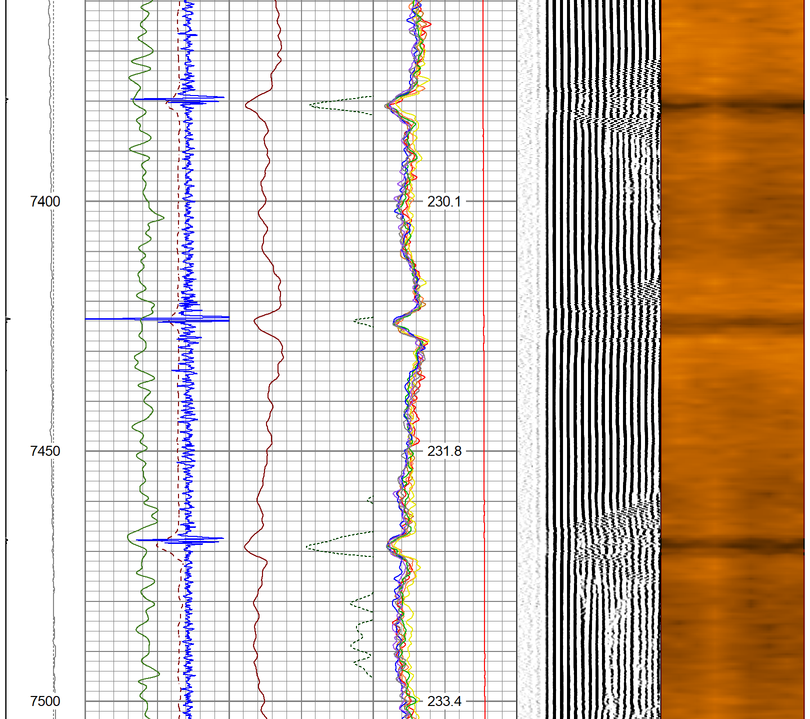
7000
218.5
7050
220.1
7100
221.7


7150
223.3
7200
224.8
Marker Joint
7250
226.1
7300
227.4
7350
228.8


7400
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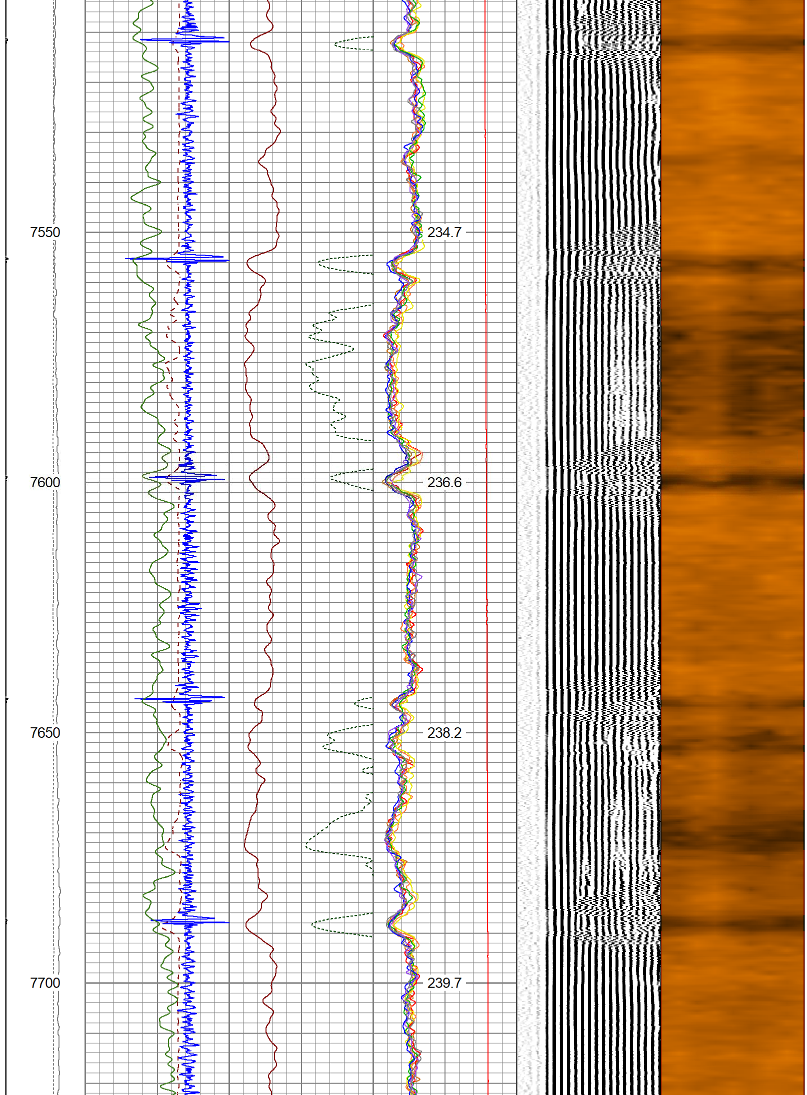
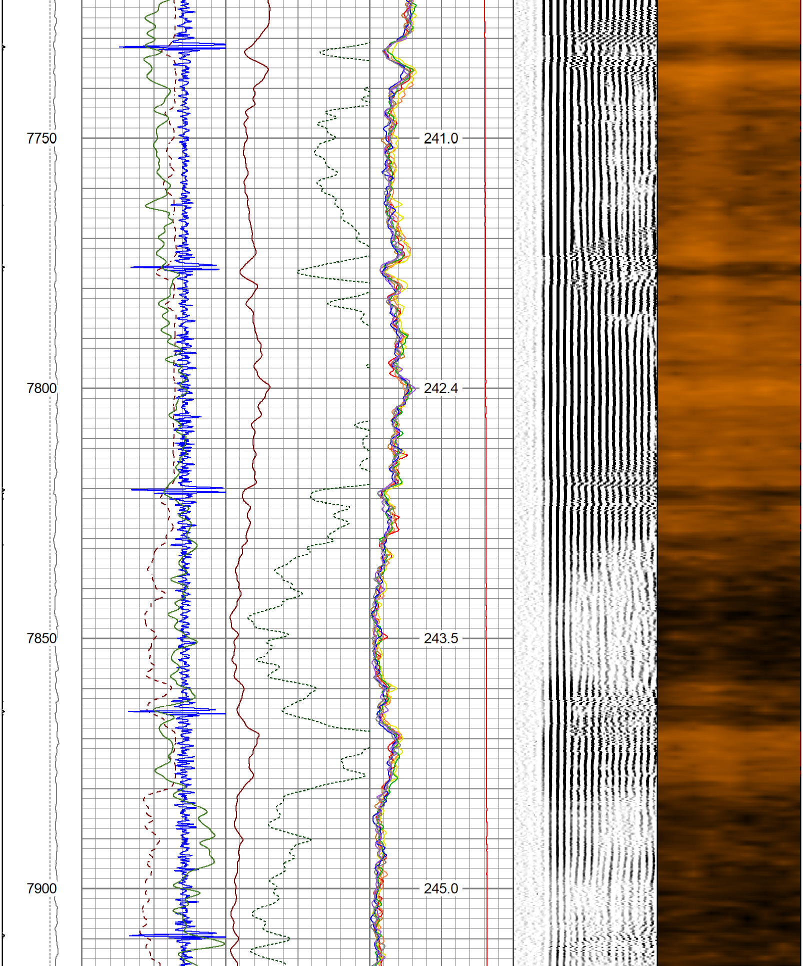
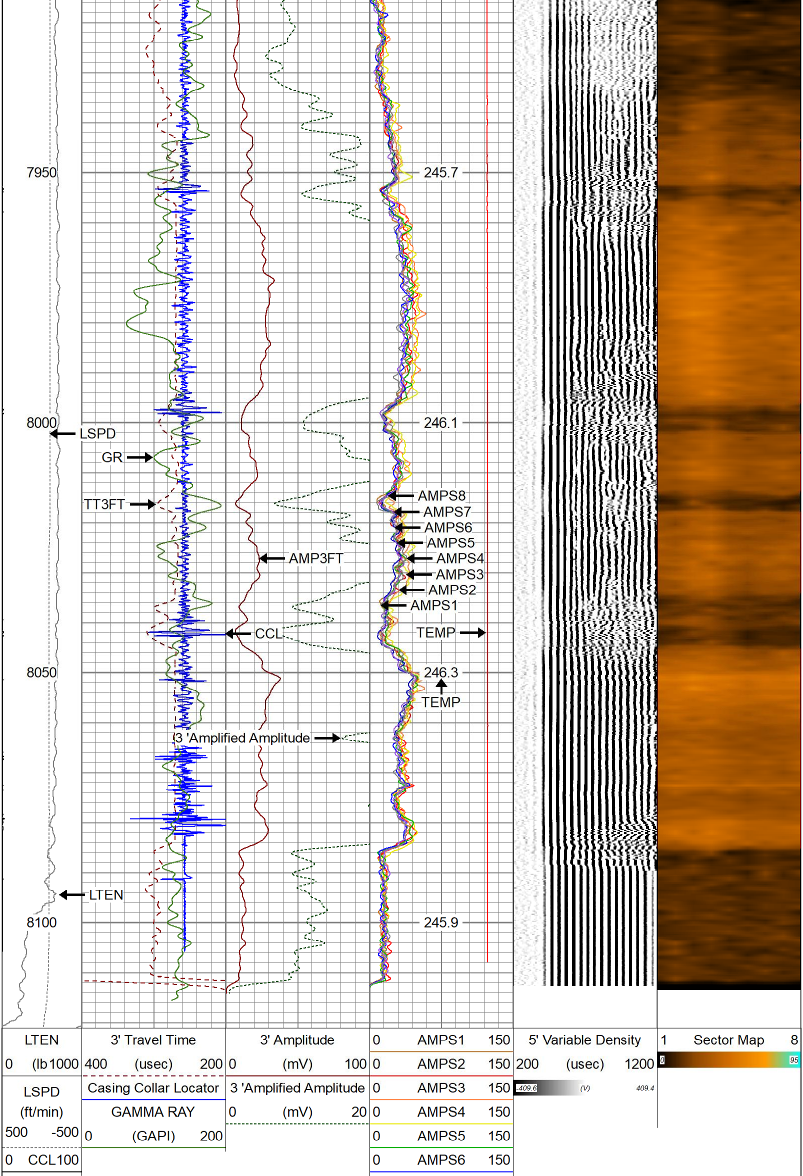
7450
231.8
7500
233.4





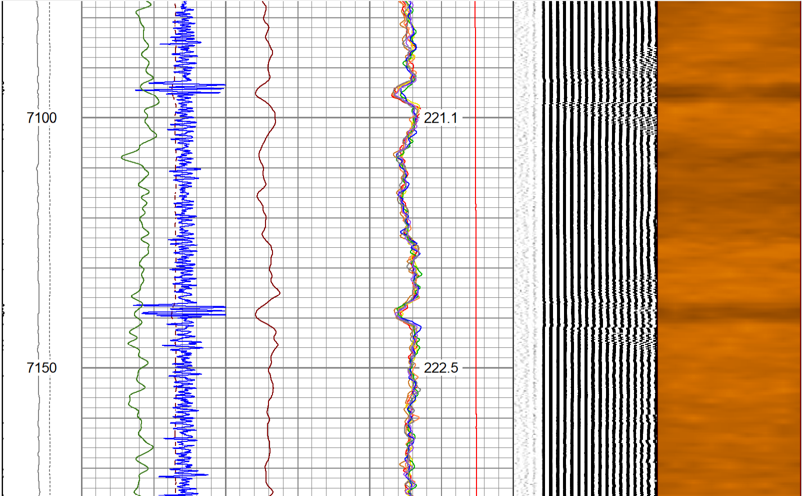


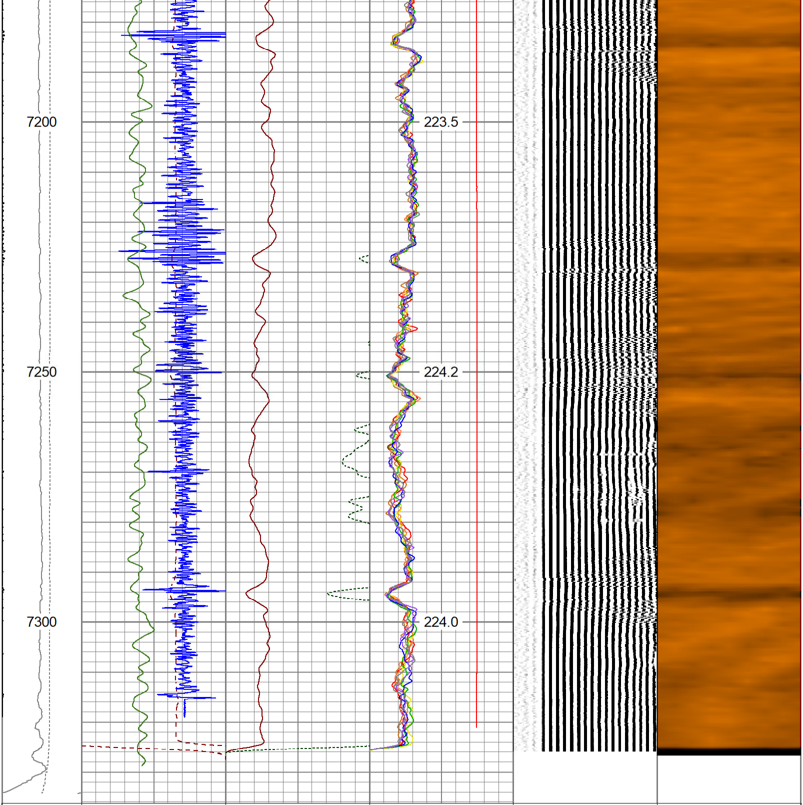
0	AMPS7	150
0	AMPS8	150
0	TEMP (degF)	300
	TEMP (degF)	

Repeat Pass

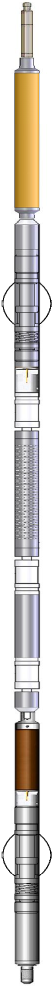
Database File pdc_stugart_23n_rcbl_31023.db
Dataset Pathname pass2
Presentation Format rbl_all_8_2020_t
Dataset Creation Fri Mar 10 17:43:47 2023
Charted by Depth in Feet scaled 1:240

LTEN	3' Travel Time	3' Amplitude	AMPS	5' Variable Density	Sector Map
0 (lb 1000	400 (usec) 200	0 (mV) 100	0 AMPS1 150	200 (usec) 1200	1 Sector Map 8
LSPD (ft/min)	Casing Collar Locator	3 'Amplified Amplitude	0 AMPS2 150	-409.6 (V) 409.4	0 95
500 -500	GAMMA RAY	0 (mV) 20	0 AMPS3 150		
0 CCL 100	0 (GAPI) 200		0 AMPS4 150		
			0 AMPS5 150		
			0 AMPS6 150		
			0 AMPS7 150		
			0 AMPS8 150		
			0 TEMP (degF) 300		
			TEMP (degF)		





LTEN 0 (lb 1000	3' Travel Time 400 (usec) 200	3' Amplitude 0 (mV) 100	0 AMPS1 150	5' Variable Density 200 (usec) 1200	1 Sector Map 8 0 95
LSPD (ft/min) 500 -500	Casing Collar Locator	3 'Amplified Amplitude 0 (mV) 20	0 AMPS2 150	-409.6 (V) 409.4	
0 CCL 100	GAMMA RAY 0 (GAPI) 200		0 AMPS3 150		
			0 AMPS4 150		
			0 AMPS5 150		
			0 AMPS6 150		
			0 AMPS7 150		
			0 AMPS8 150		
			0 TEMP (degF) 300		
			TEMP (degF)		

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
			Cable Head-Titan_144 1 7/16" Titan Cable Head	1.03	1.44	2.00
			PROBE-CCL-ANALOG-CCL-A (Probe-CCL-A1) Probe 2 3/4" Logging CCL	3.00	2.75	10.00
CCL	15.21					
			CENT-overbody	2.00	4.50	3.00
TEMP	11.57					
			PROBE-RBT-DIGITAL-RBL-DCT (130373) Probe 2 3/4" Radii Bond with Temp-Corrosion Package	9.21	2.75	105.00
WVFS8	9.27					
WVFS7	9.27					
WVFS6	9.27					
WVFS5	9.27					
WVFS4	9.27					
WVFS3	9.27					
WVFS2	9.27					
WVFS1	9.27					
WVFCAL	9.27					
WVF3FT	9.27					
WVF5FT	8.27					
DCCL	4.21					
GCT_TEMP	3.42					
GR	2.83					
			PROBE-GR/CCL-DIGITAL-275 Probe GCT (2107026) Probe 2 3/4" Gamma Ray/Temp/CCL 6 Pin	4.75	2.75	60.00
			CENT-overbody	2.00	4.50	3.00
			Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00

Dataset:	pdc_stugart_23n_rcbl_31023.db: field/well/run1/merge1.1
Total length:	18.32 ft
Total weight:	187.00 lb
O.D.:	4.50 in

Calibration Report

Database File pdc_stugart_23n_rcbl_31023.db
Dataset Pathname merge1.1
Dataset Creation Fri Mar 10 19:30:36 2023

Gamma Ray Calibration Report

Serial Number:	2107026	
Tool Model:	275 Probe GCT	
Performed:	Thu Jun 23 12:16:30 2022	
Calibrator Value:	200.0	GAPI
Background Reading:	43.9	cps
Calibrator Reading:	269.1	cps
Sensitivity:	0.8881	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	130373	
Tool Model:	RBL-DCT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	285.483	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.000	0.794	0.500	71.921	89.993	0.499
CAL	0.032	1.009				
5'	0.000	0.785	0.500	71.921	90.995	0.499
SUM						
S1	0.000	0.774	0.000	100.000	129.148	-0.000
S2	0.000	0.789	0.000	100.000	126.677	-0.001
S3	0.000	0.834	0.000	100.000	119.966	-0.001
S4	-0.002	0.854	0.000	100.000	116.771	0.289
S5	-0.003	0.896	0.000	100.000	111.225	0.367
S6	0.000	0.887	0.000	100.000	112.754	-0.001
S7	0.000	0.861	0.000	100.000	116.148	-0.001
S8	0.000	0.810	0.000	100.000	123.457	-0.002

Air Zero Calibration, performed Fri Mar 10 07:20:25 2023:

	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: 130373
Tool Model: RBL-DCT
Performed: Fri Mar 10 10:04:46 2023

	Reference		Reading	
Low Reference:	0.00	degF	0.00	degF
High Reference:	1.00	degF	1.00	degF

Gain: 0.90
Offset: 0.00
Delta Spacing 1

Company	PDC Energy
Well	Stugart 23N
Field	Wattenberg
County	Weld
State	Colorado