Radial Bond
Gamma Ray
CCL, Temp

Company	PDC Energy
Well	Stugart 22N
Field	Wattenberg
County	Weld
State	Colorado

Company	PDC Energy		
Well	Stugart 22N		
Field	Wattenberg		
County	Weld	State	Colorado

Location: API # : 05-123-51259

2141' FNL & 2022' 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	15400'		
Depth Logger	8025'		
Bottom Logged Interval	8022'		
Top Log Interval	Surface		
Open Hole Size	8.5		
Type Fluid	Water		
Density / Viscosity	8.33		
Max. Recorded Temp.	248°F		
Estimated Cement Top	See log		
Time Well Ready	ROA		
Time Logger on Bottom	16:00		
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	1730'
Prot. String				
Production String	5.5"	20#	Surface	15395'
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.

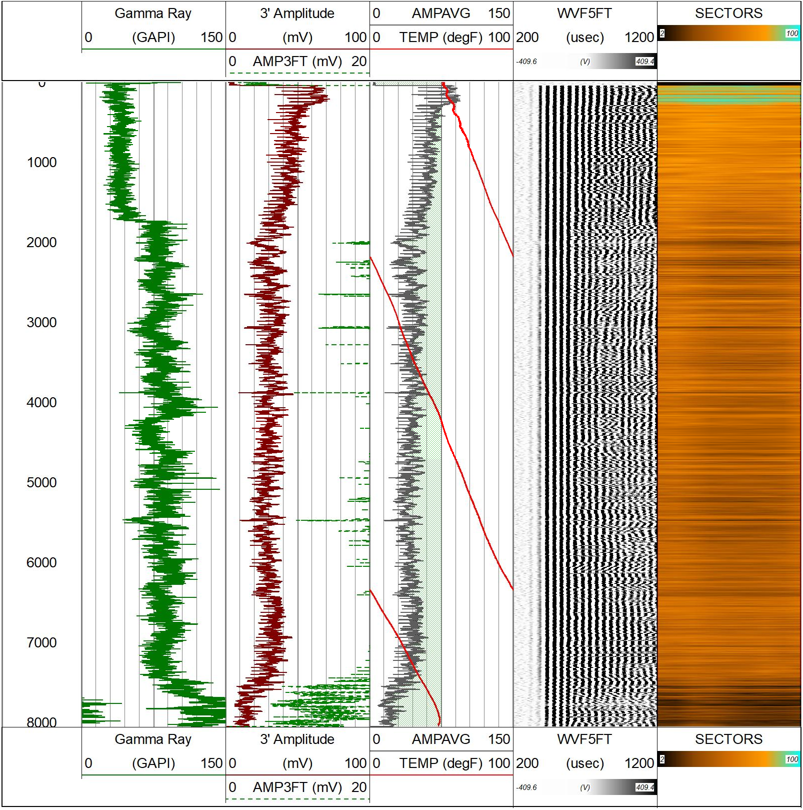
Comments

Log ran at Customer Request
Correlated to Marker Joint 7110.5' to 7132.3'

Thank You For Choosing GO Wireline!

Main Pass

Database File	pdc_stugart_22n_rcbl_31023.db
Dataset Pathname	pass8.1
Presentation Format	rbl_1inch_2020
Dataset Creation	Fri Mar 10 17:22:42 2023
Charted by	Depth in Feet scaled 1:15000



Main Pass

Database File	pdc_stugart_22n_rcbl_31023.db
Dataset Pathname	pass8.1
Presentation Format	rbl_all_8_2020_t
Dataset Creation	Fri Mar 10 17:22:42 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

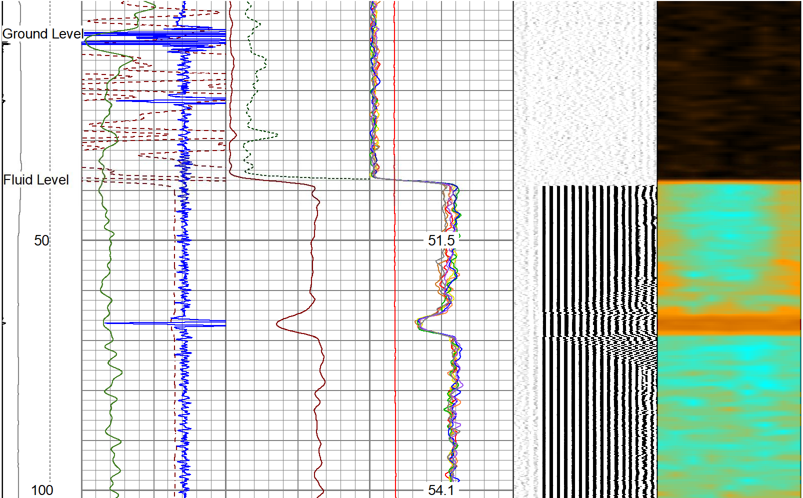
3 'Amplified Amplitude
0 (mV) 20

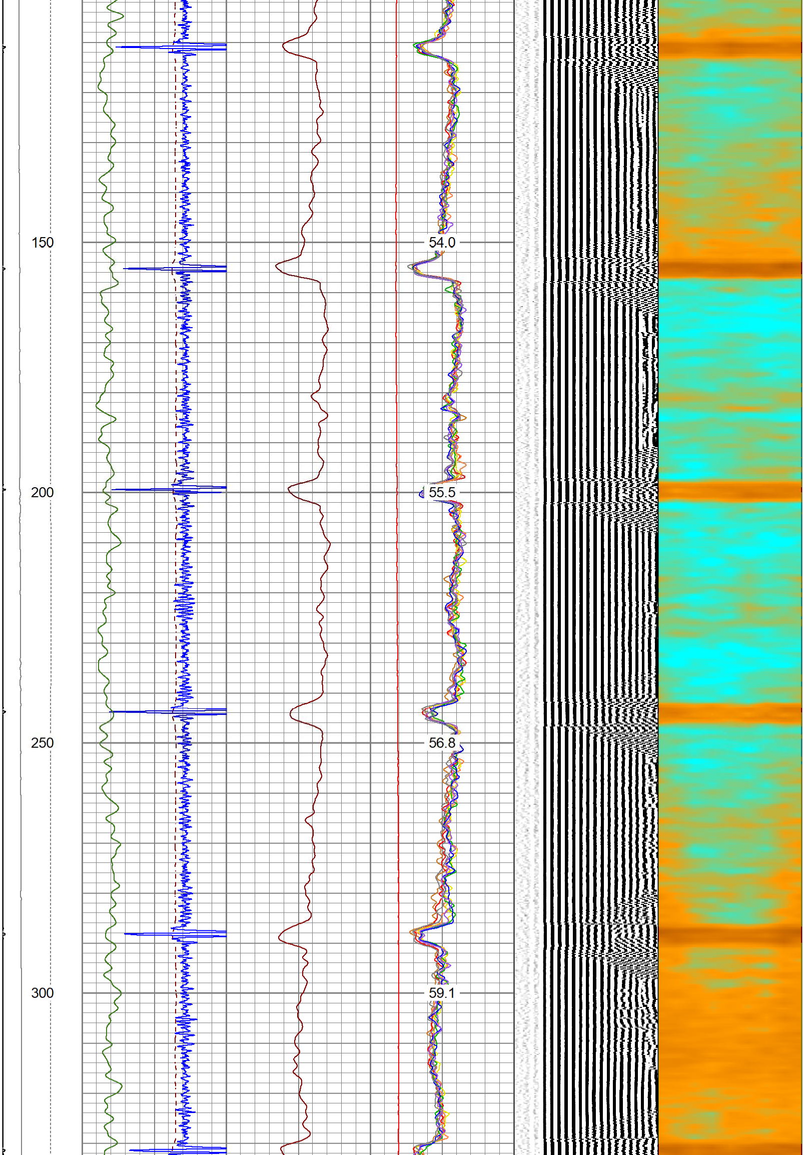
0 AMPS1 150
0 AMPS2 150
0 AMPS3 150
0 AMPS4 150
0 AMPS5 150
0 AMPS6 150
0 AMPS7 150
0 AMPS8 150
0 TEMP (degF) 300

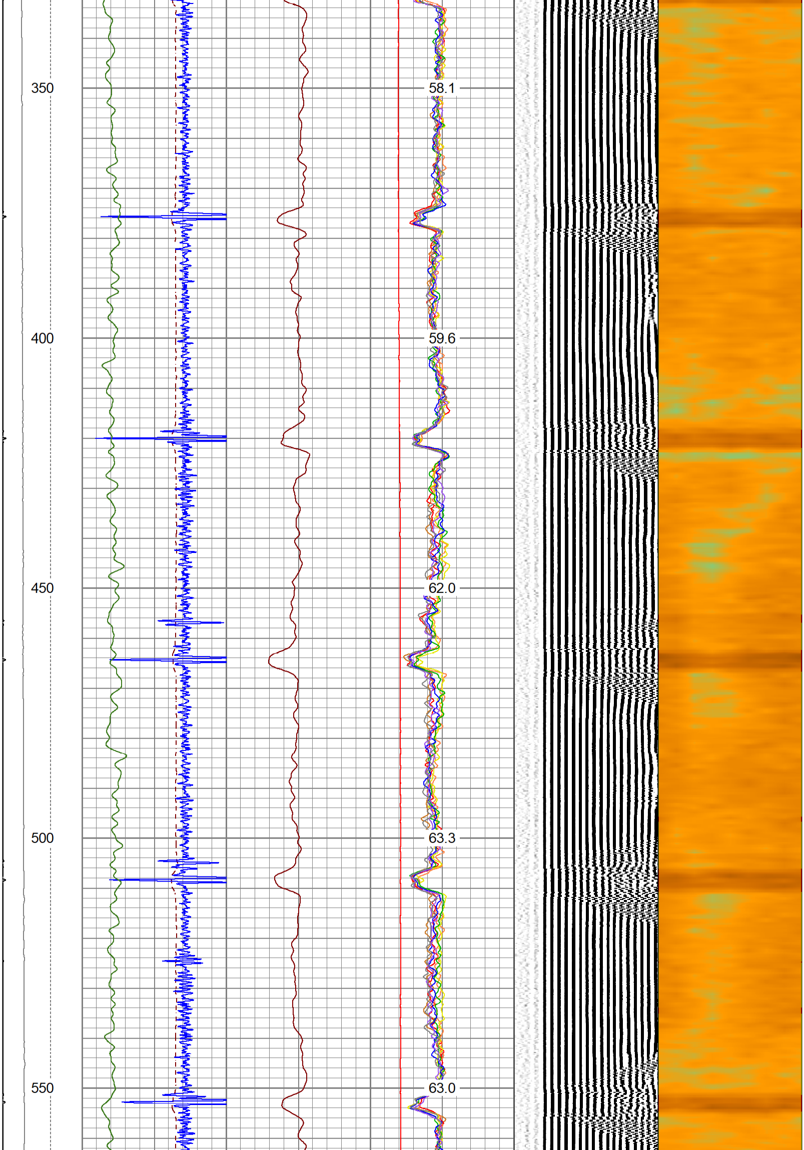
TEMP
(degF)

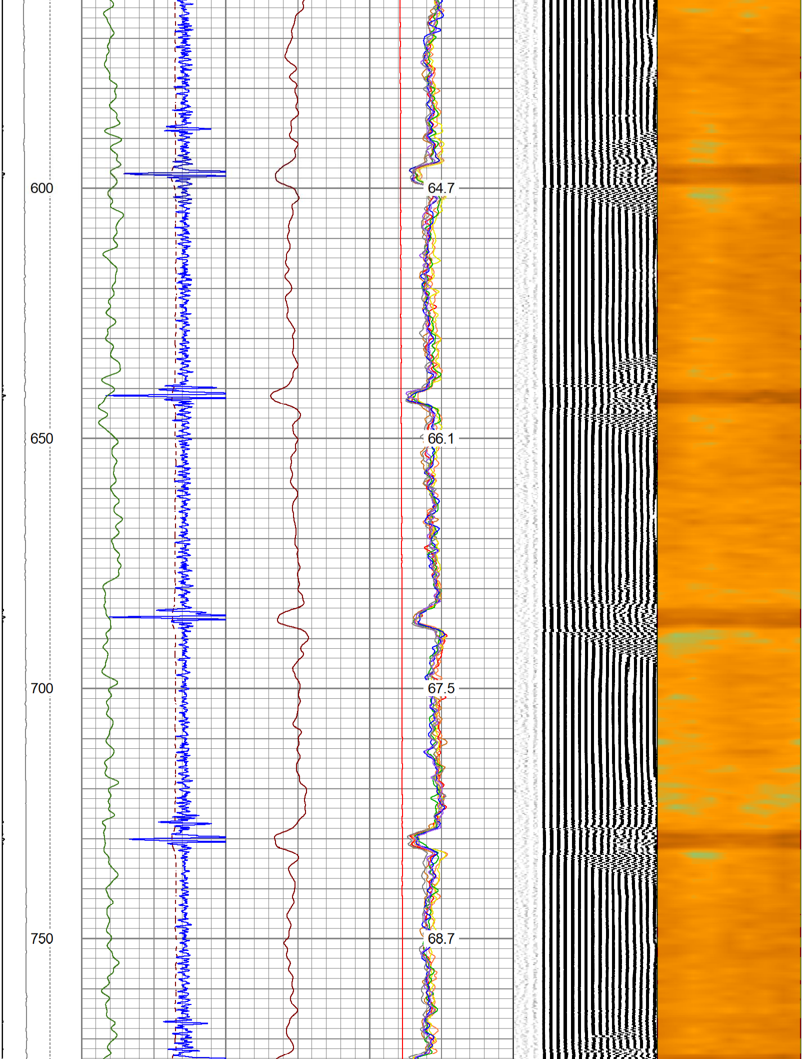
5' Variable Density
200 (usec) 1200
-409.6 (V) 409.4

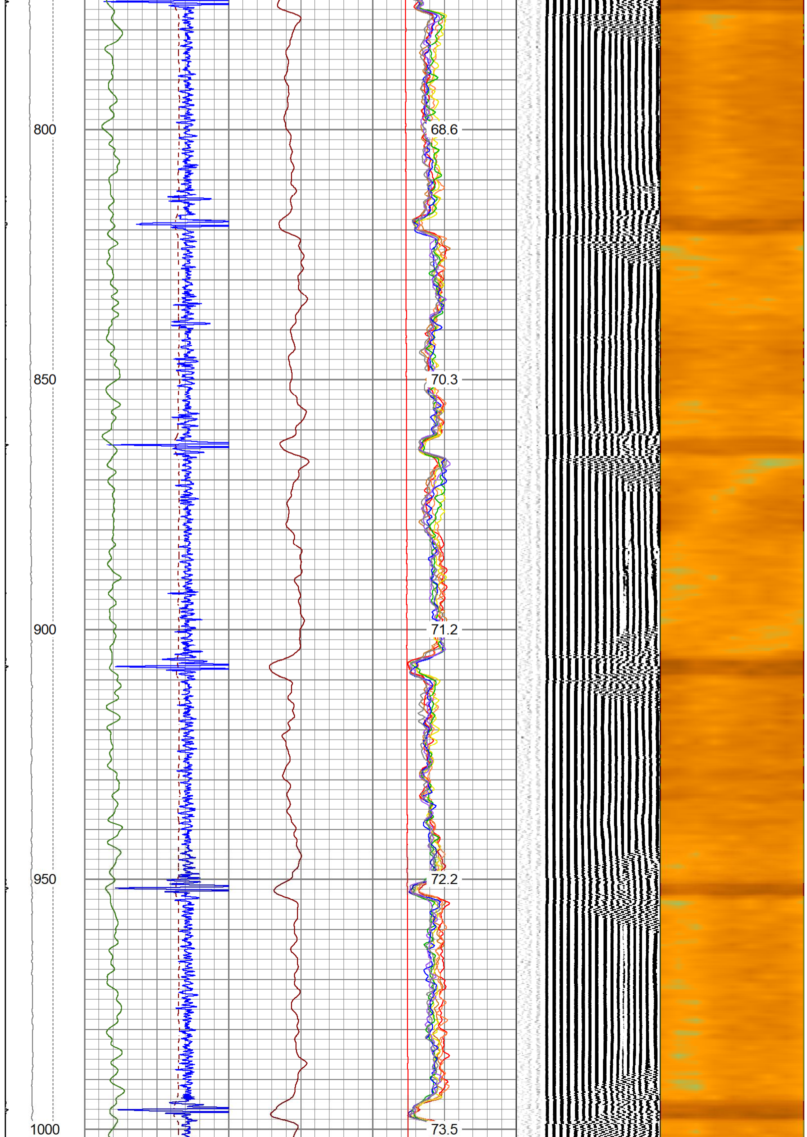
1 Sector Map 8
0 95

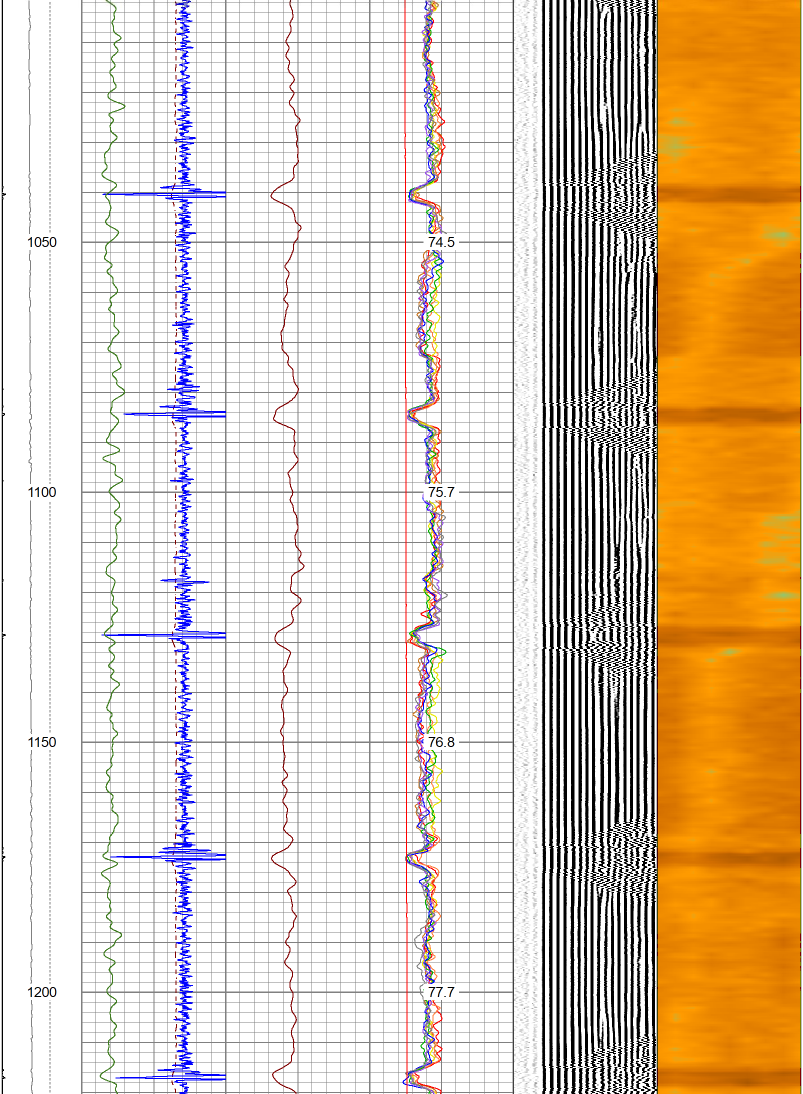


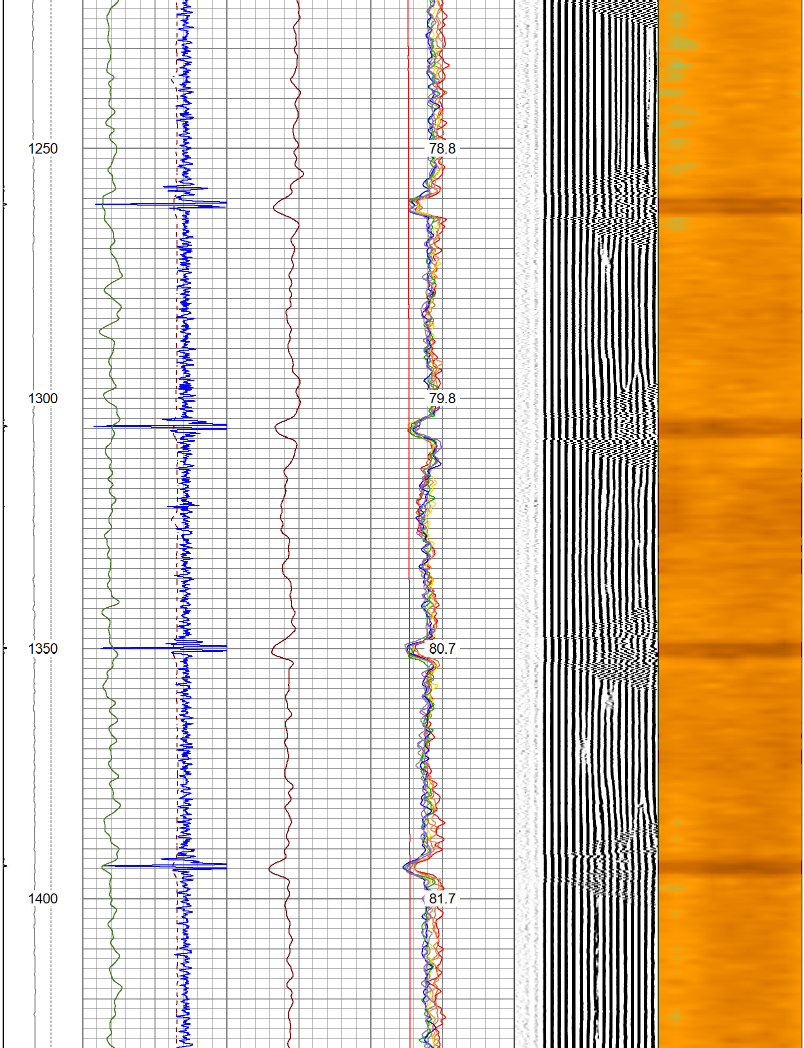


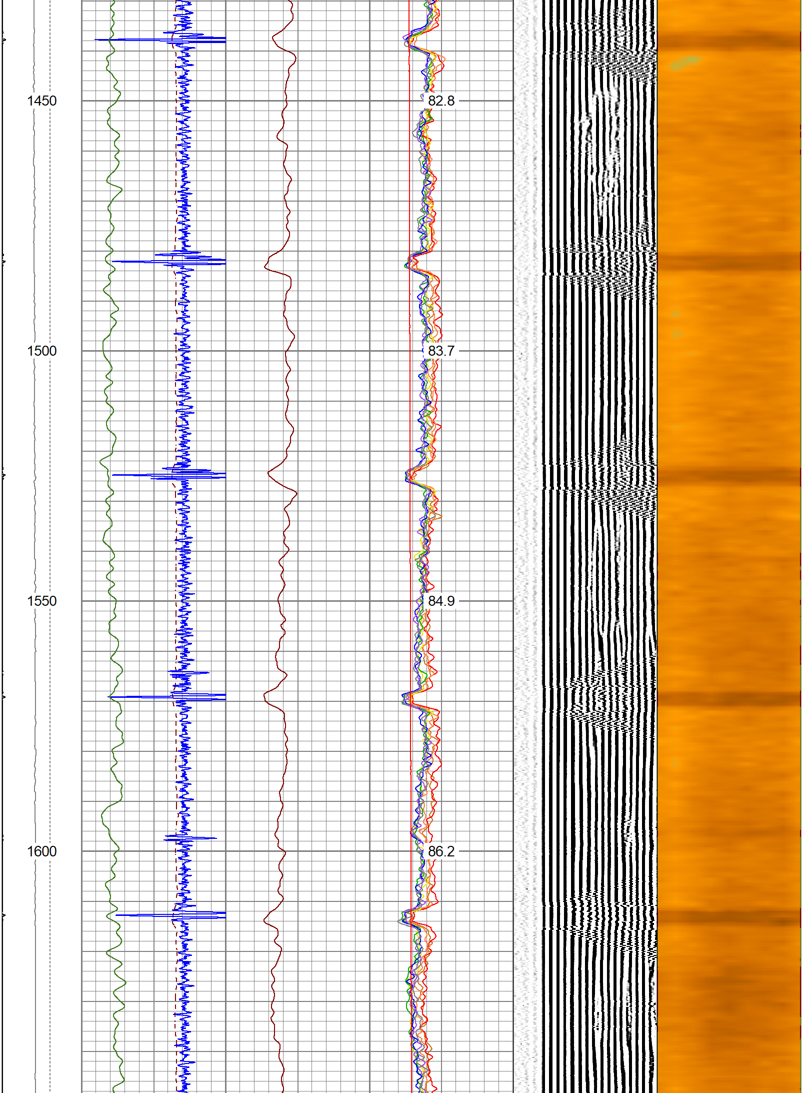


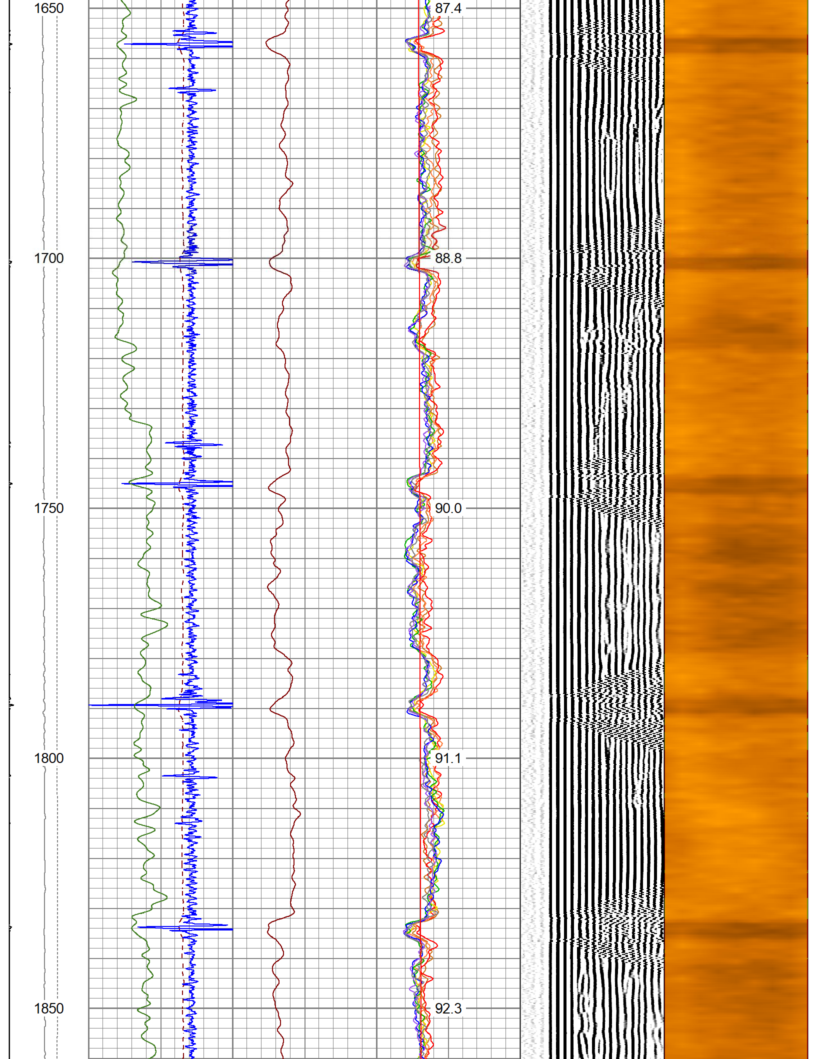


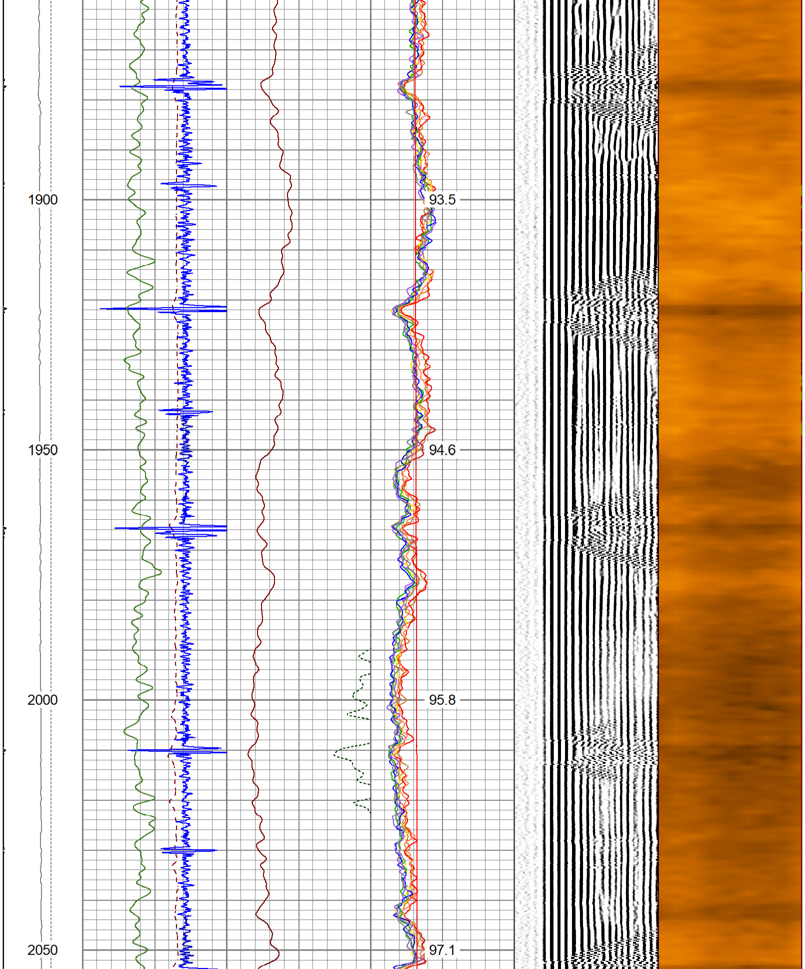


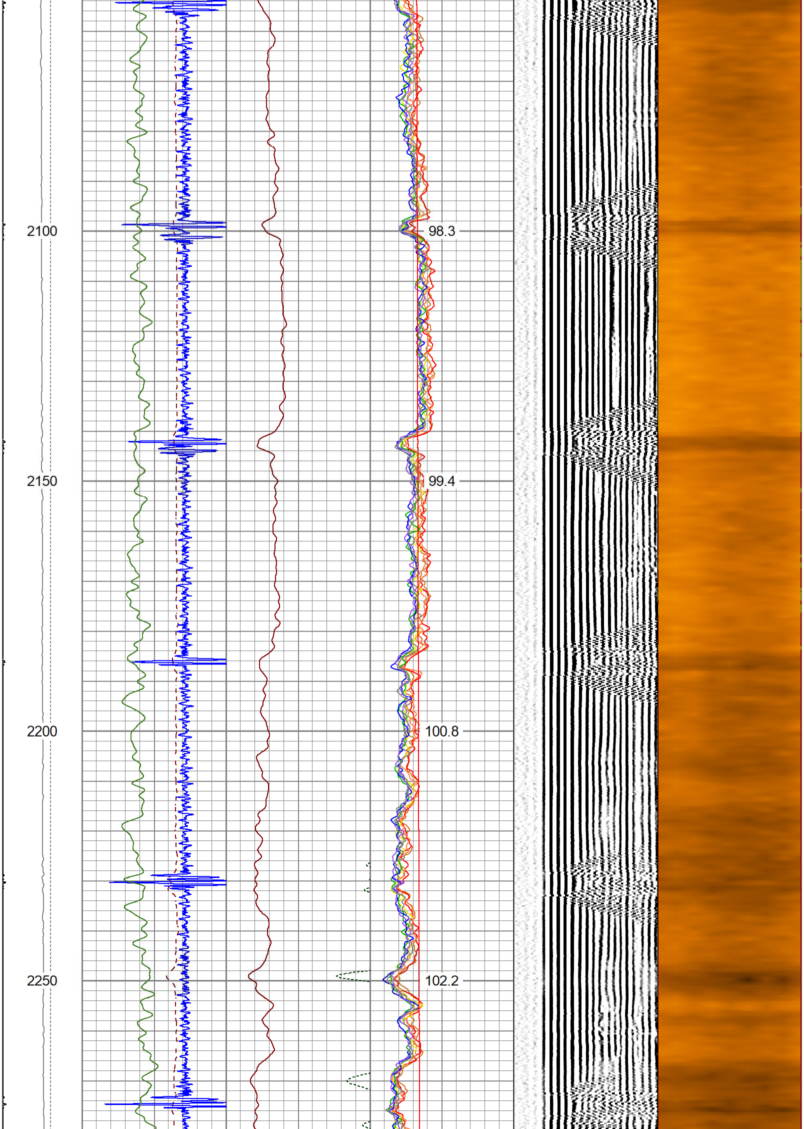


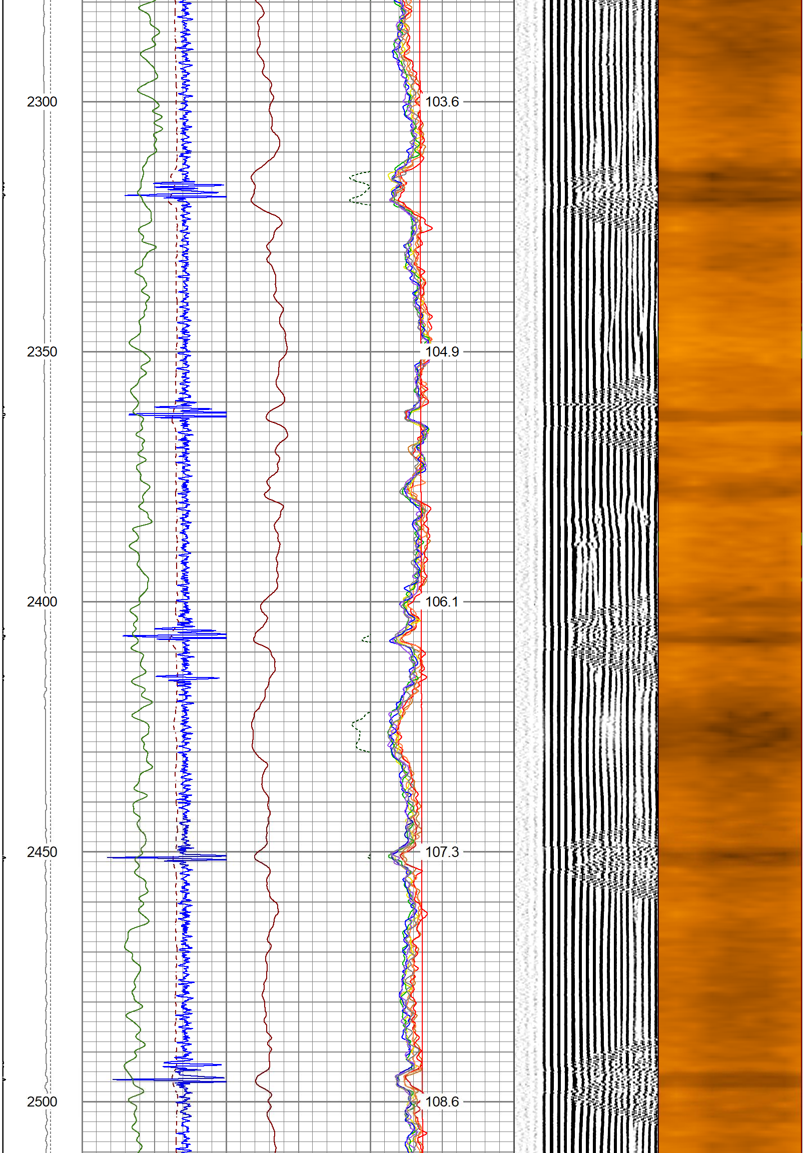


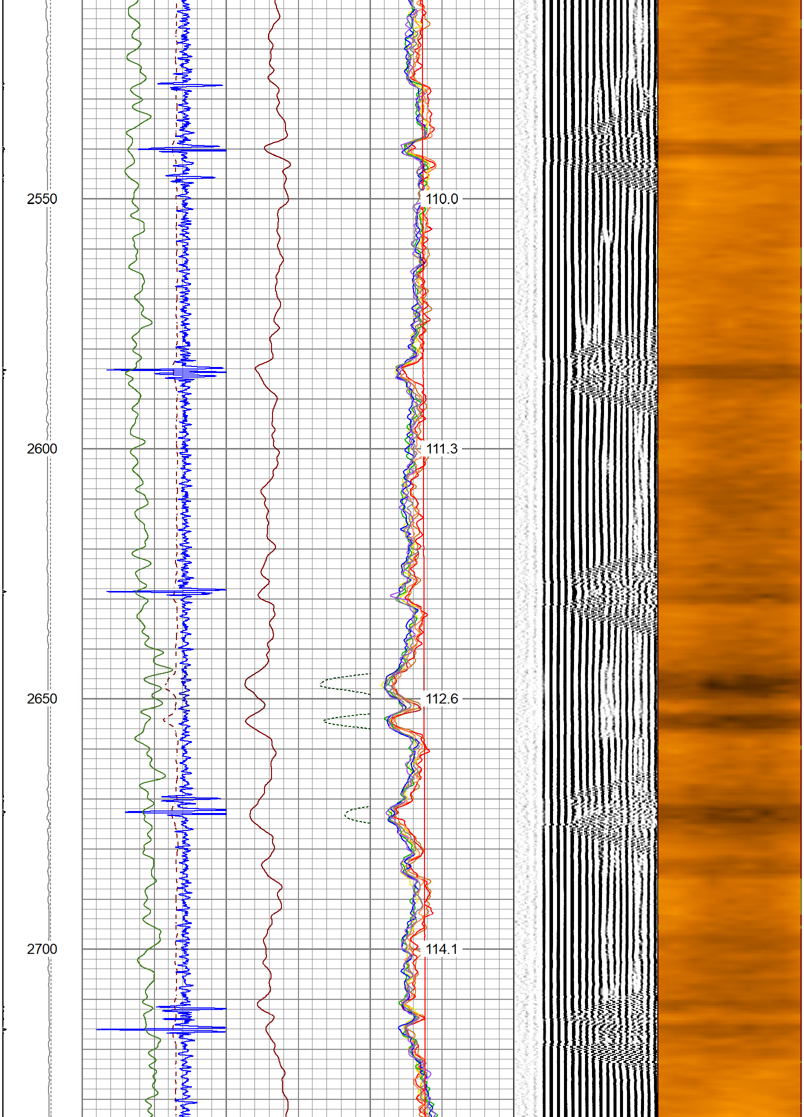


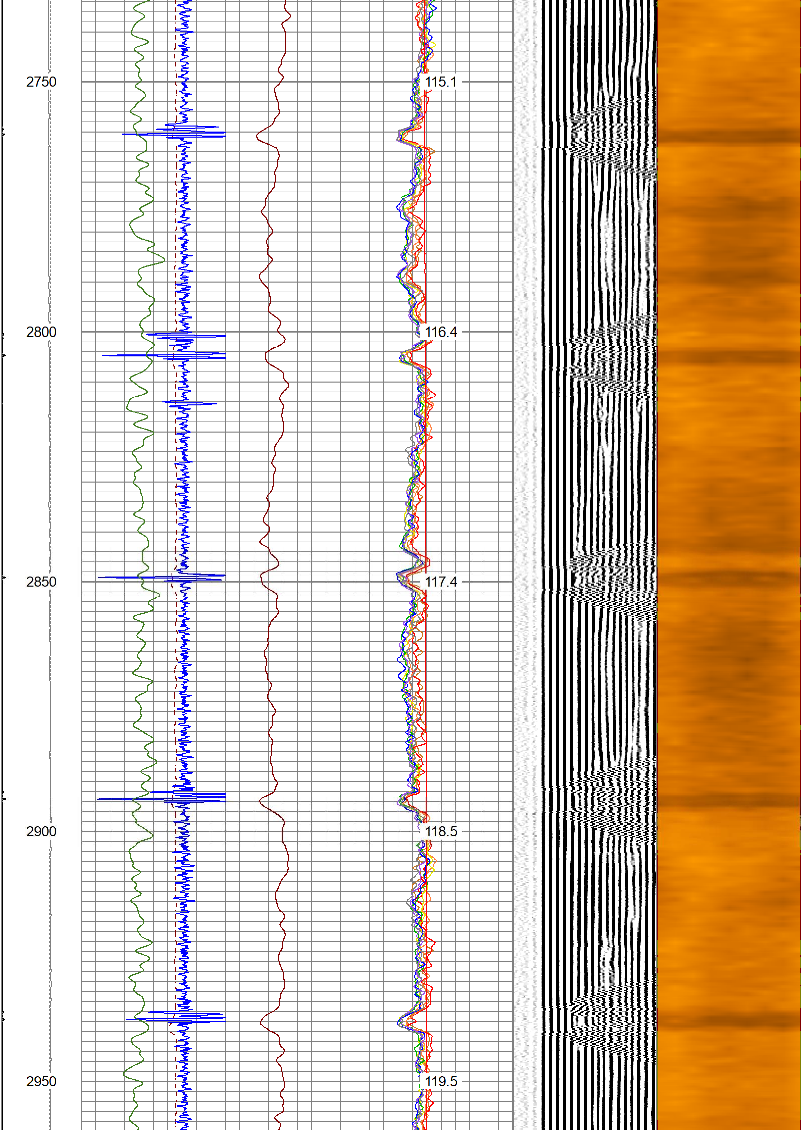


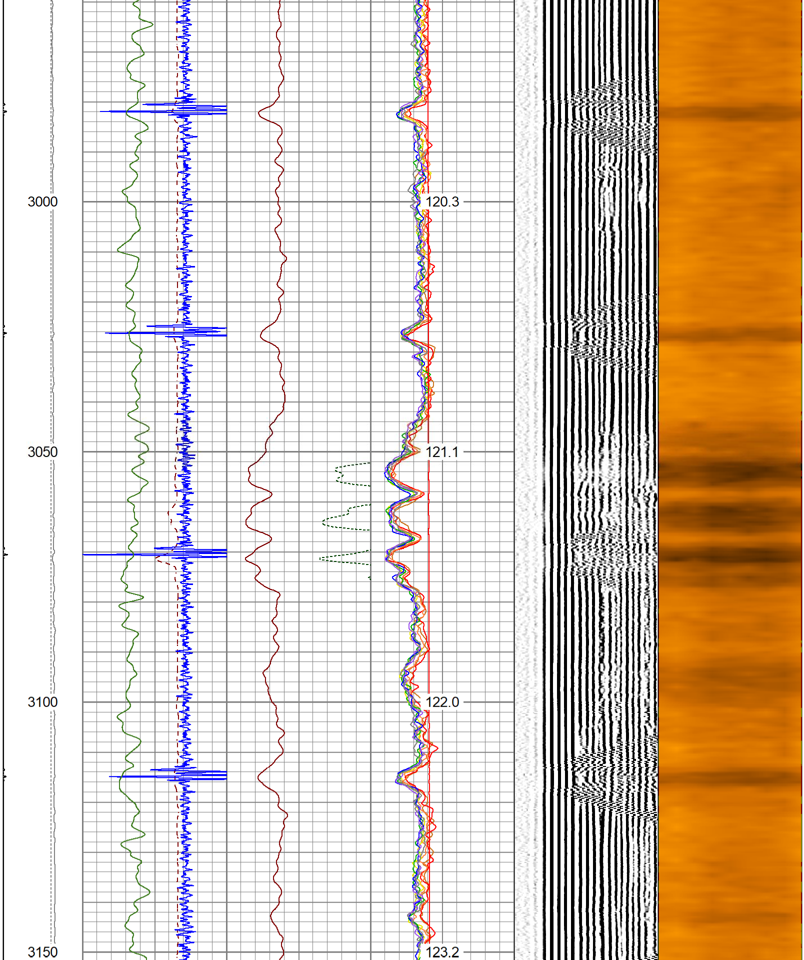


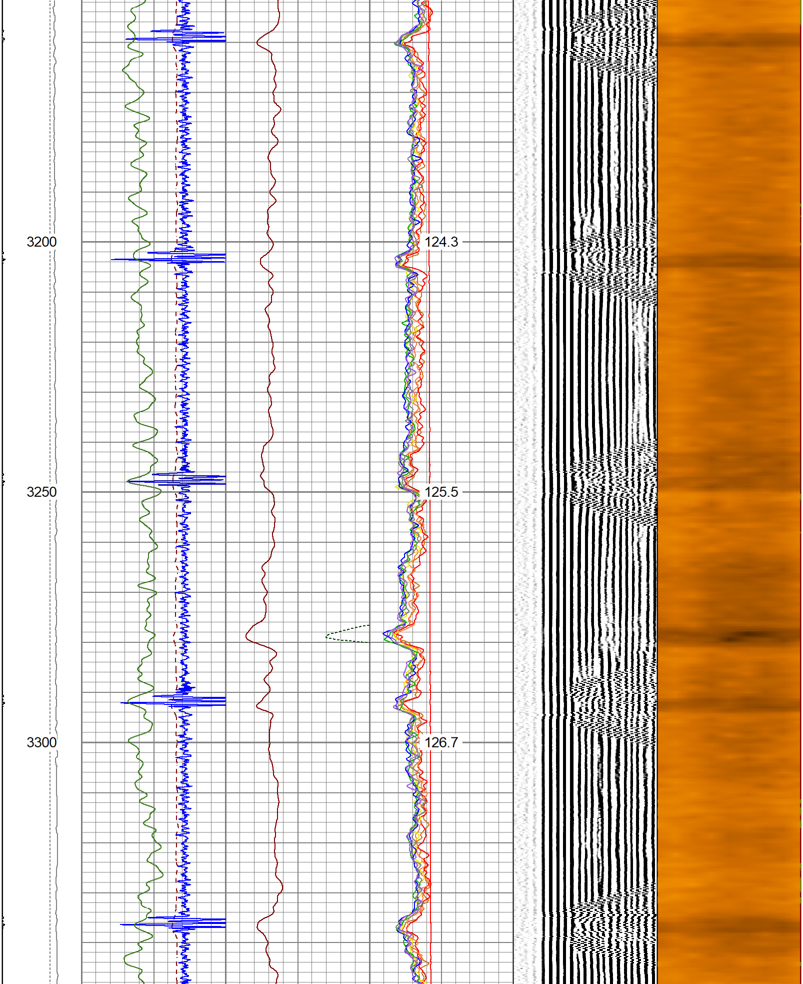


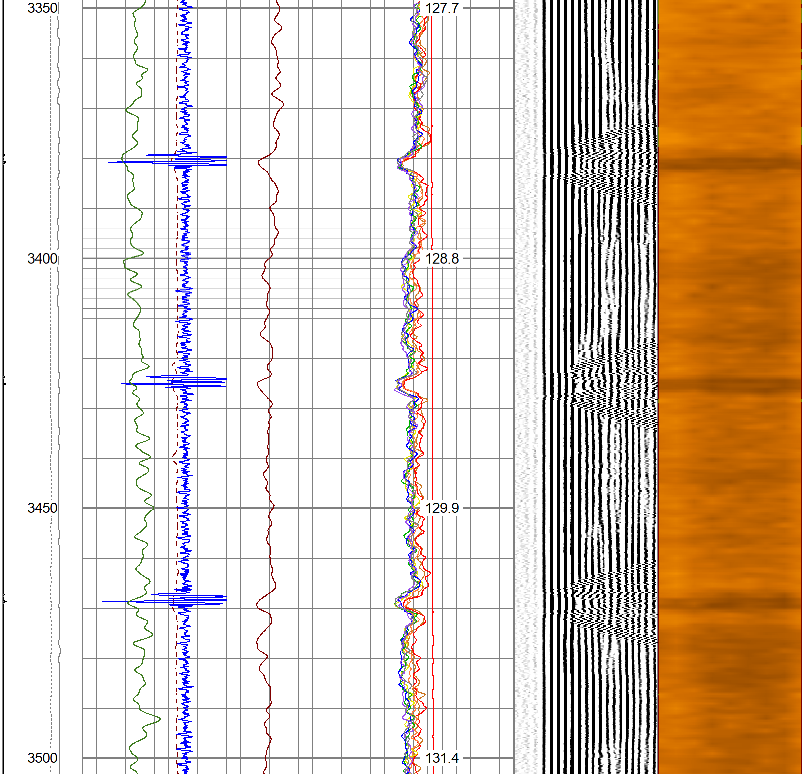


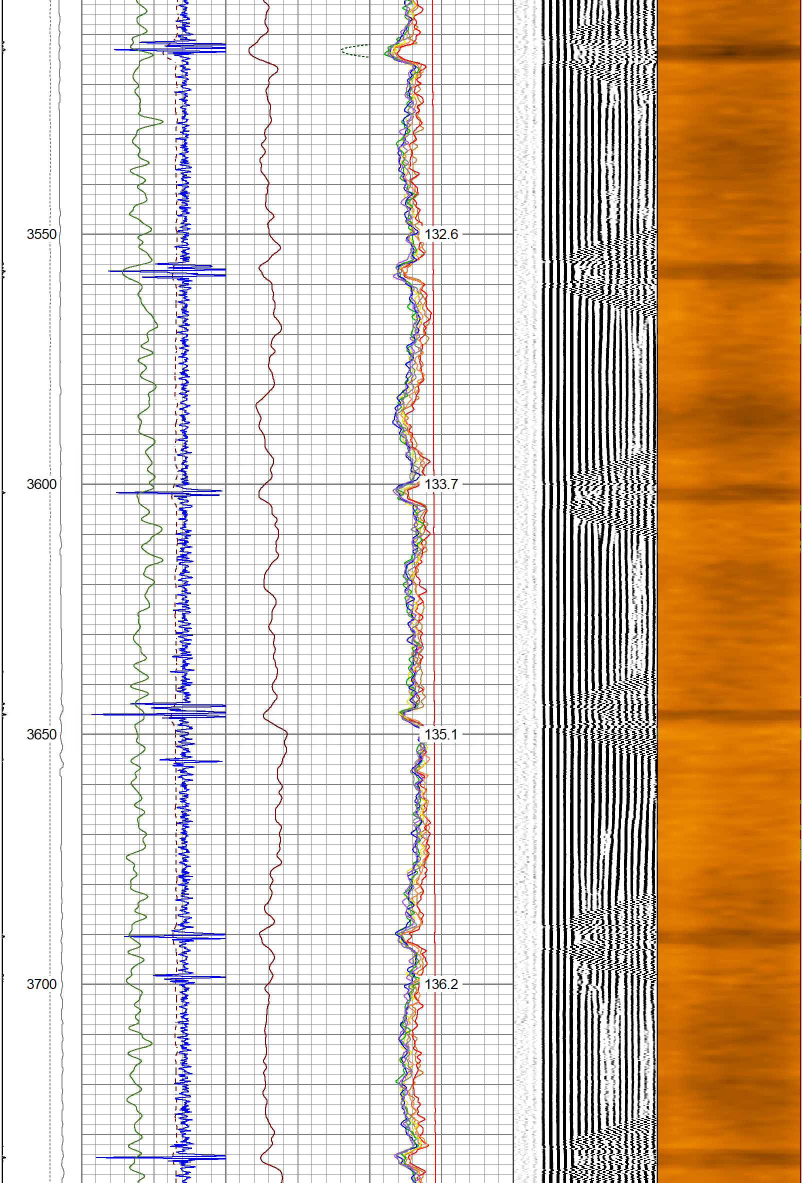


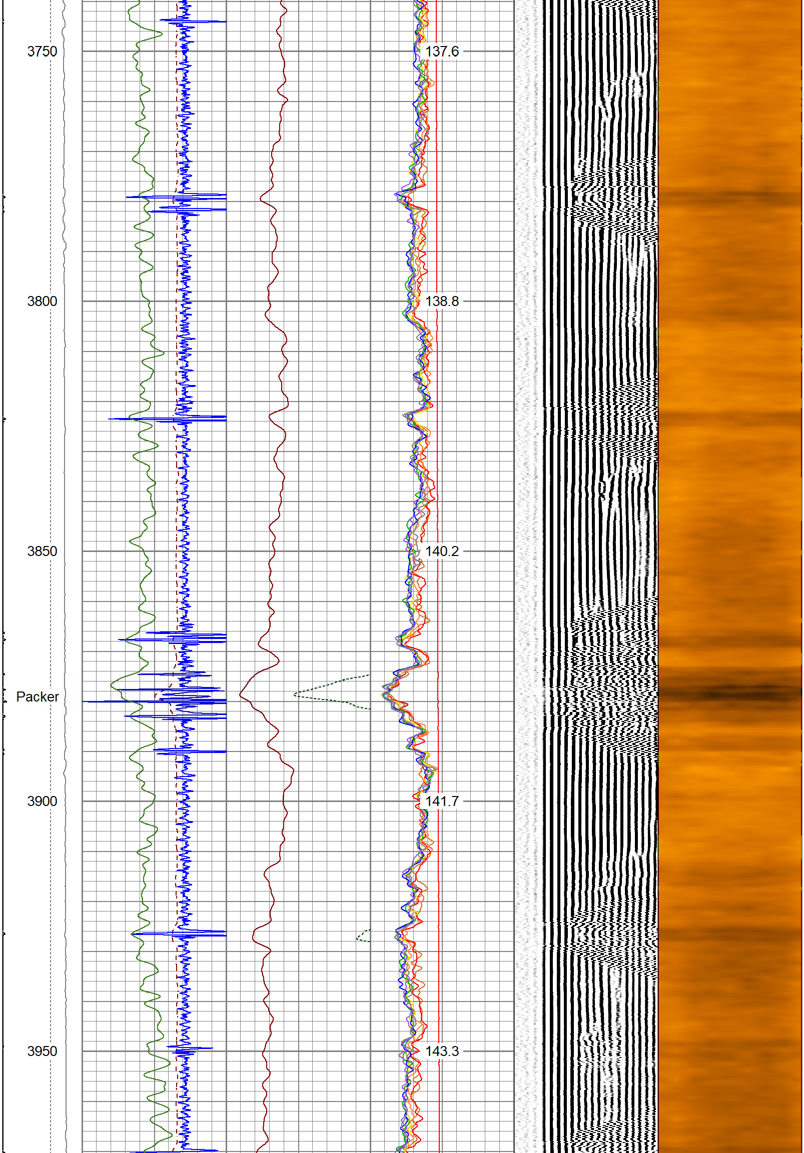


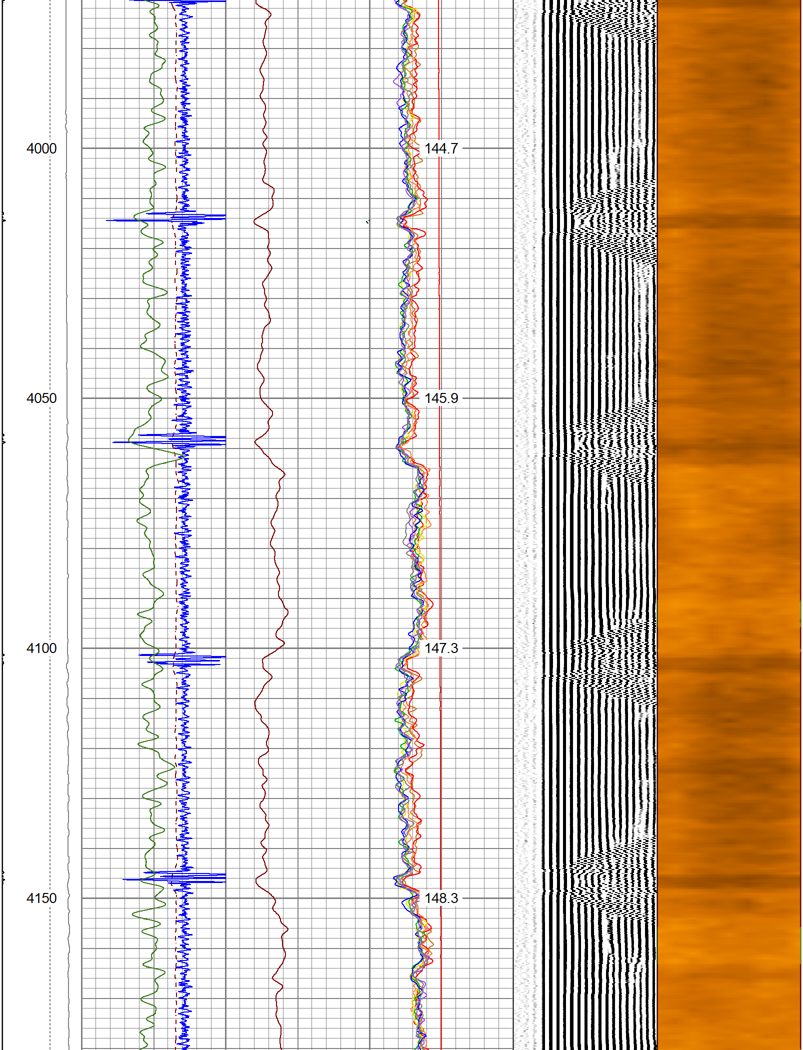


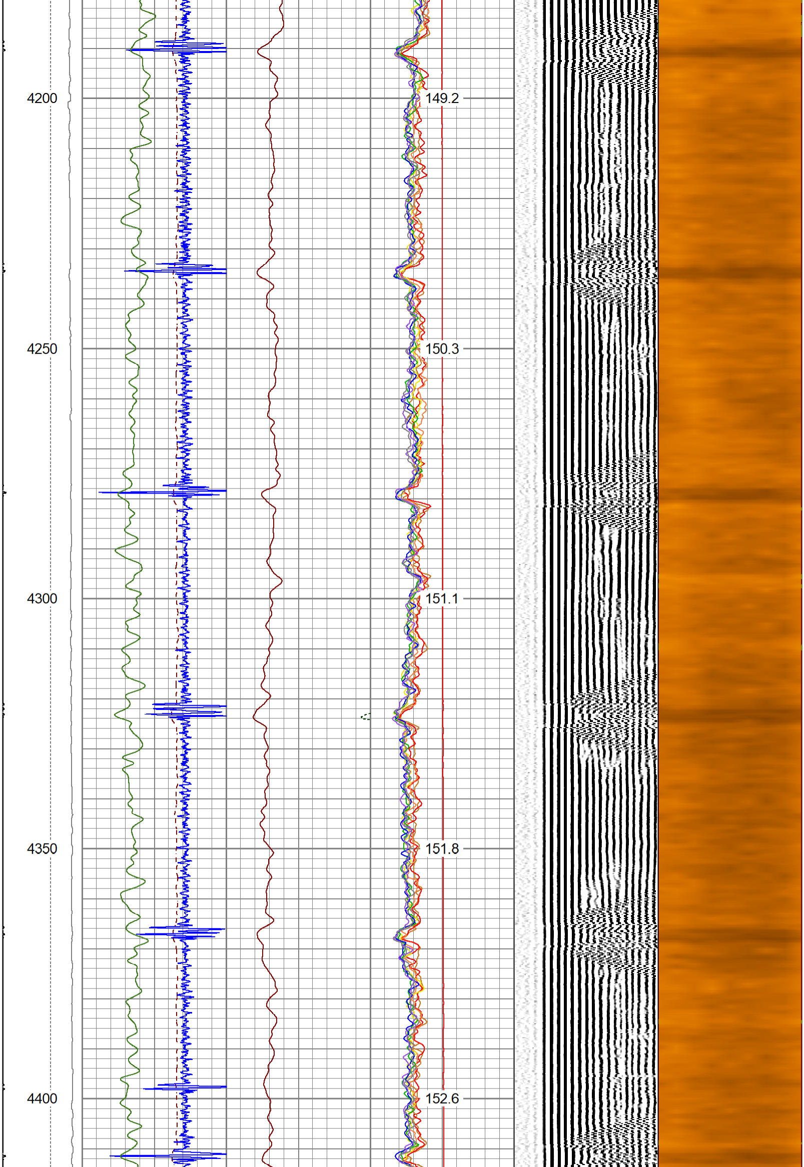


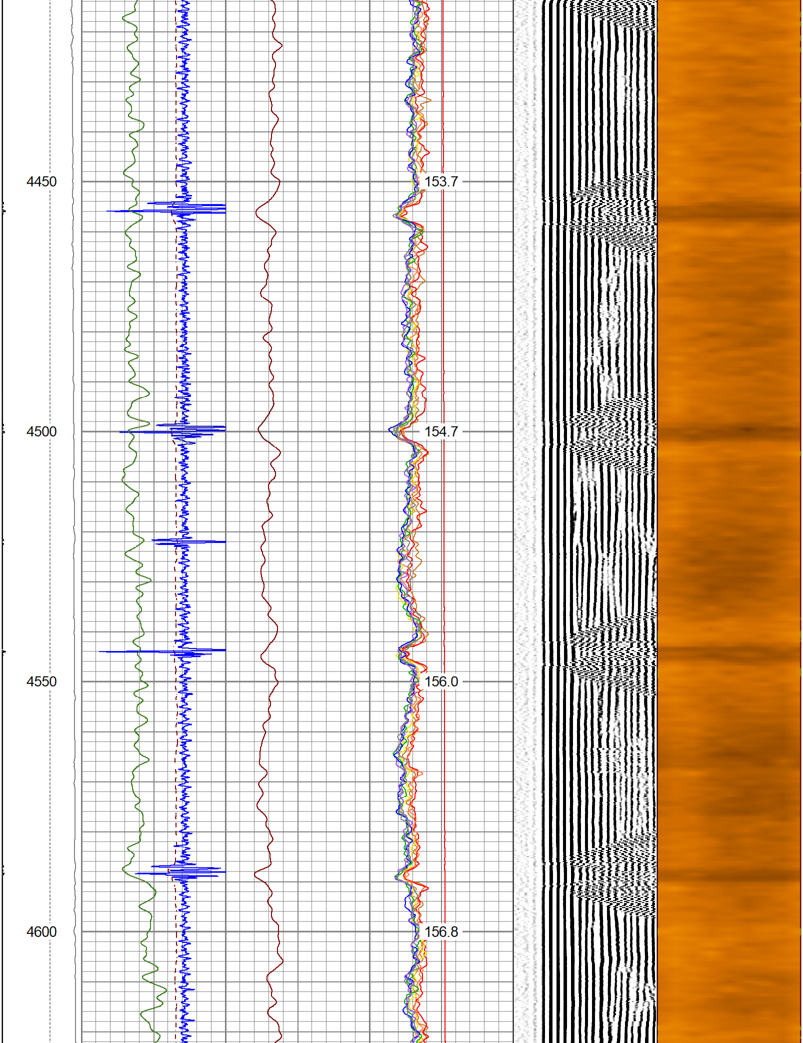


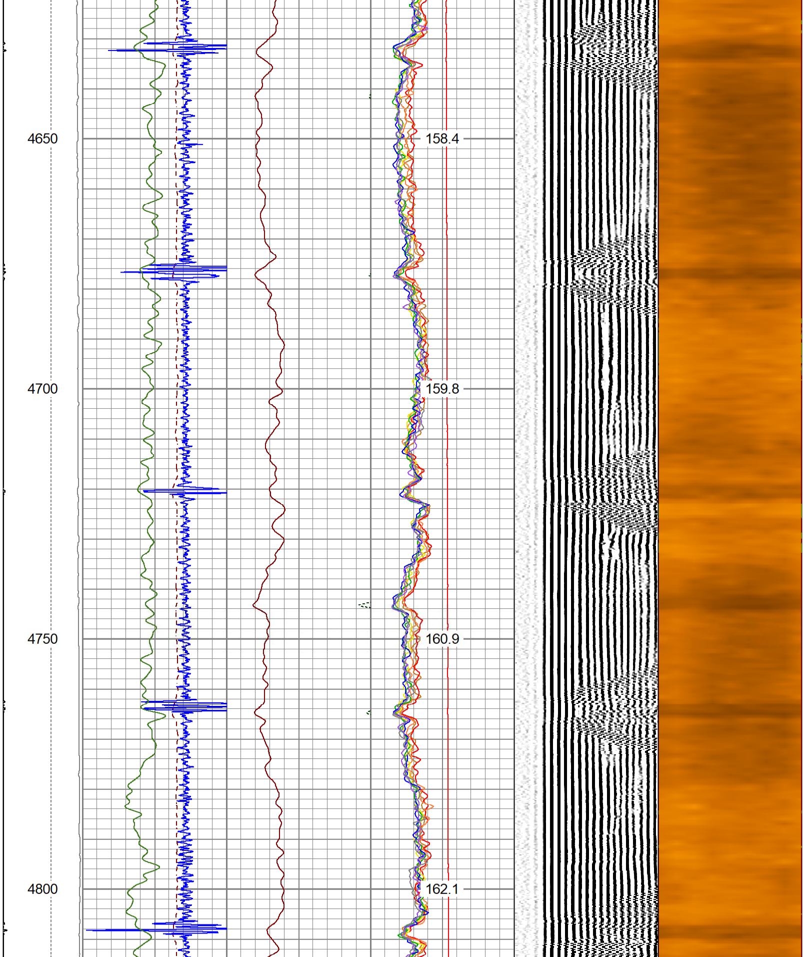

3550
132.6
3600
133.7
3650
135.1
3700
136.2

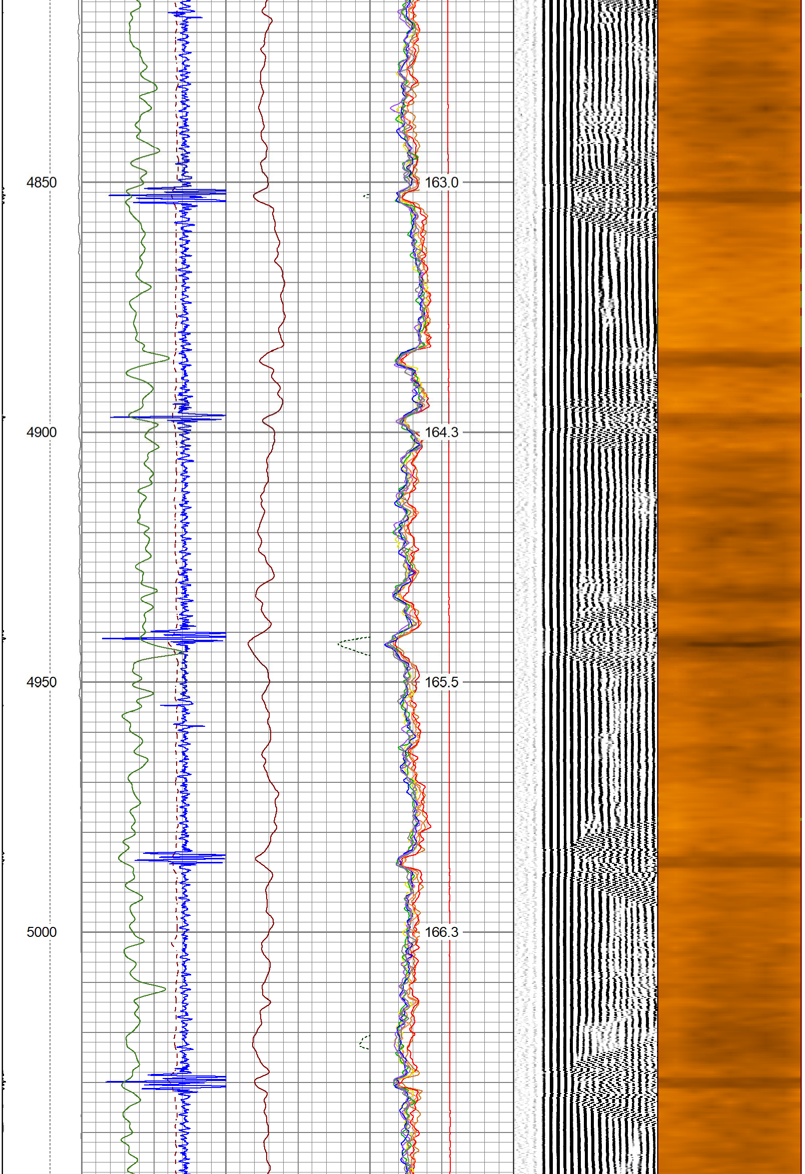

3750
137.6
3800
138.8
3850
140.2
Packer
3900
141.7
3950
143.3

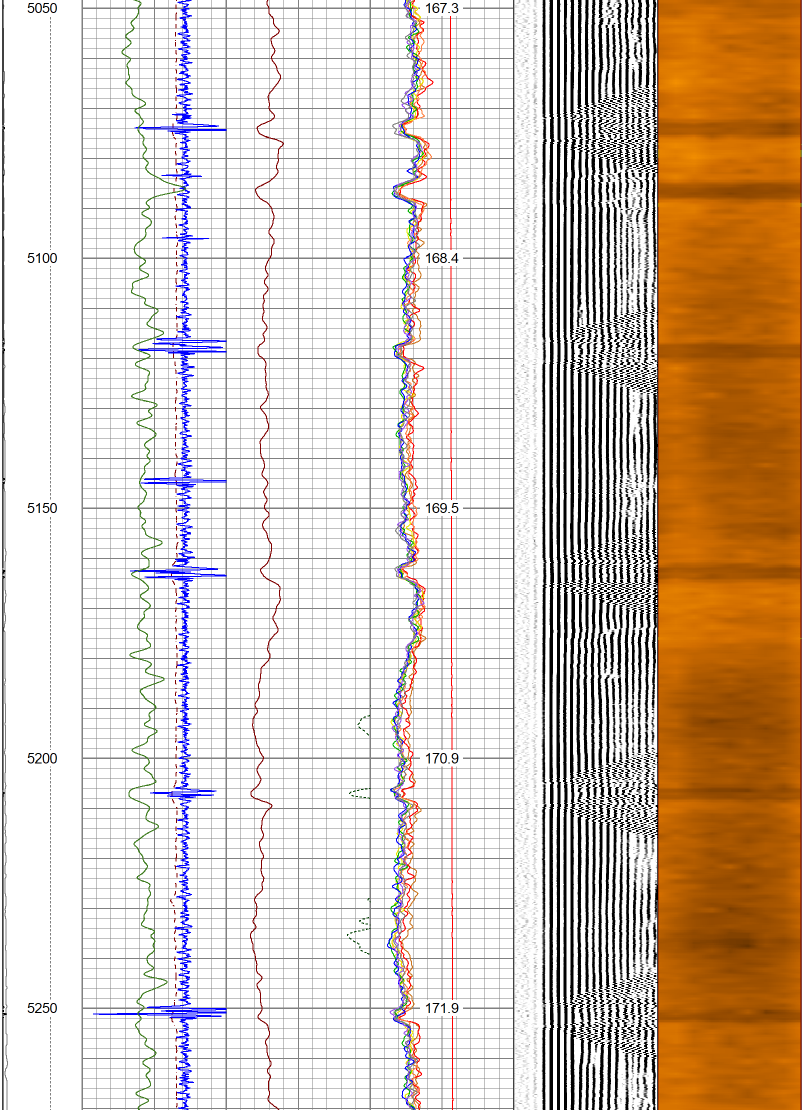

4000
144.7
4050
145.9
4100
147.3
4150
148.3

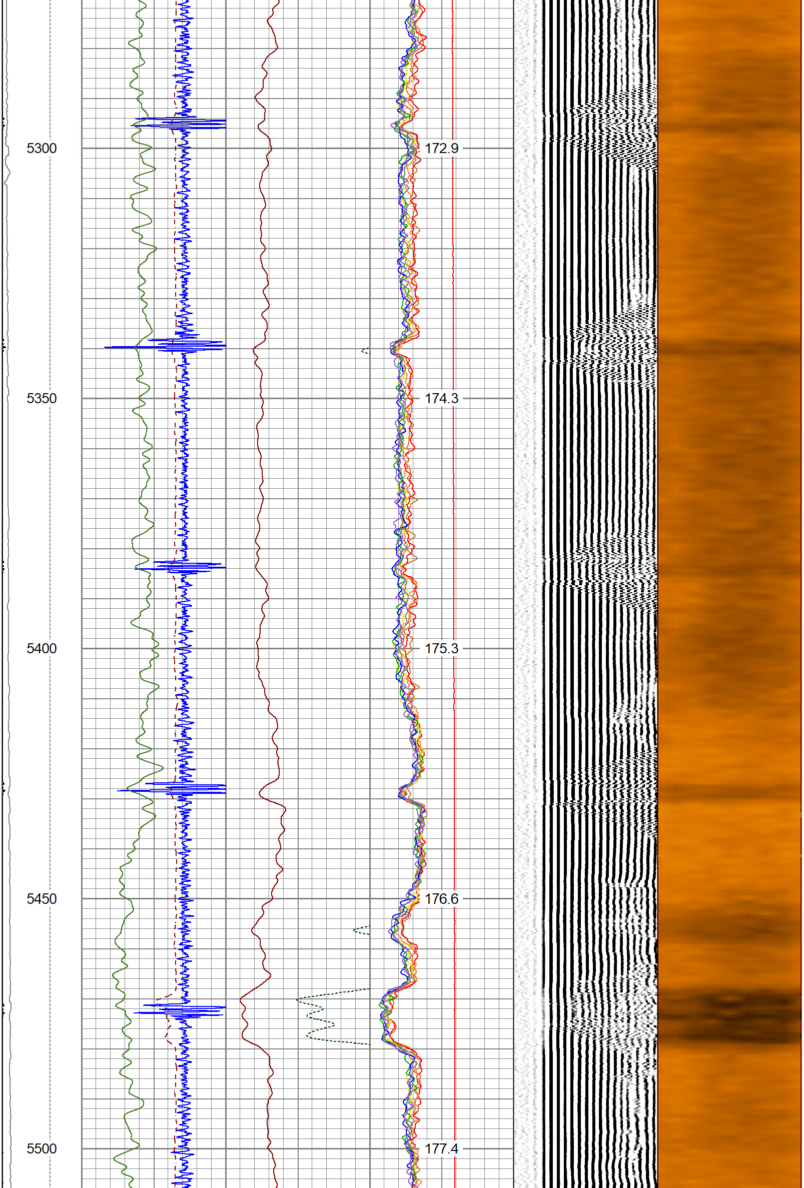

4200
149.2
4250
150.3
4300
151.1
4350
151.8
4400
152.6

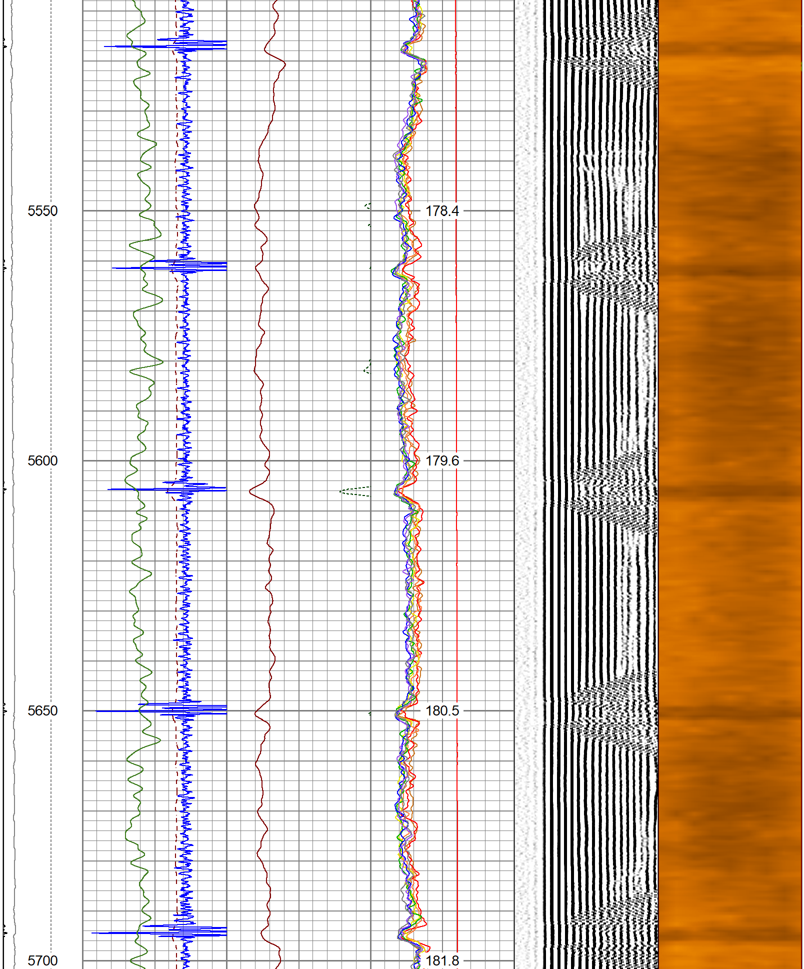

4450
153.7
4500
154.7
4550
156.0
4600
156.8

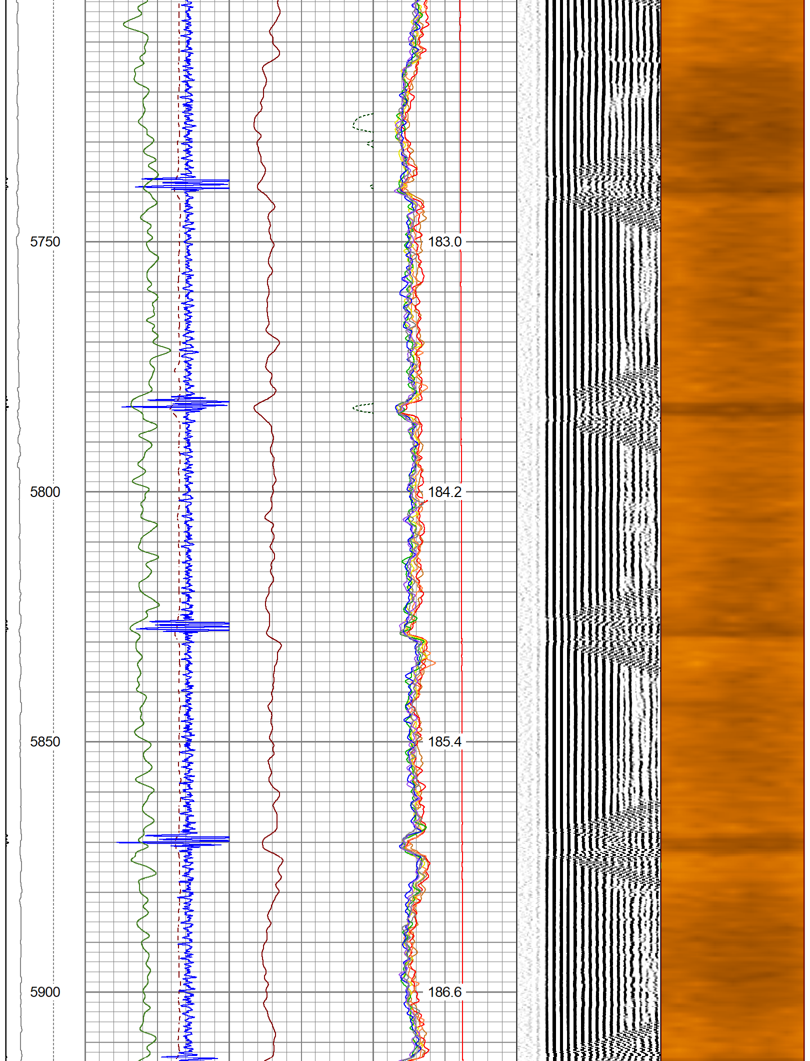

4650
158.4
4700
159.8
4750
160.9
4800
162.1

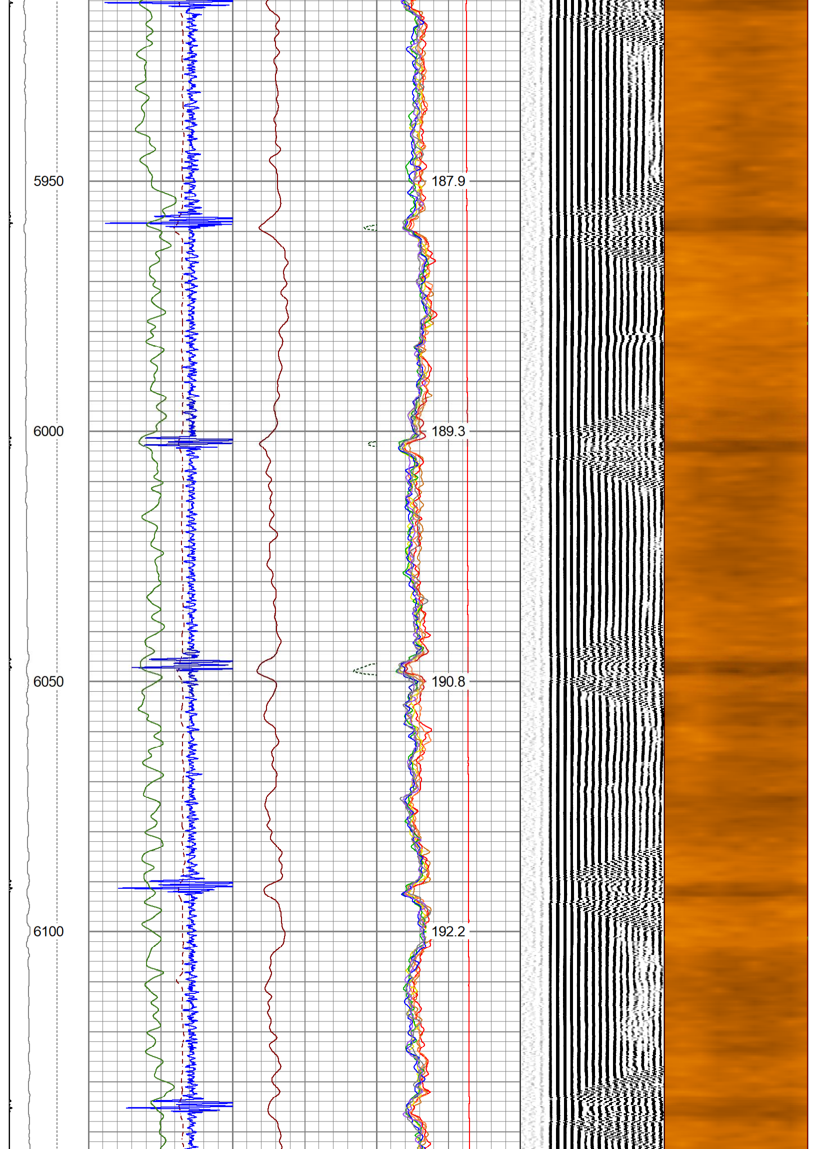

4850
163.0
4900
164.3
4950
165.5
5000
166.3

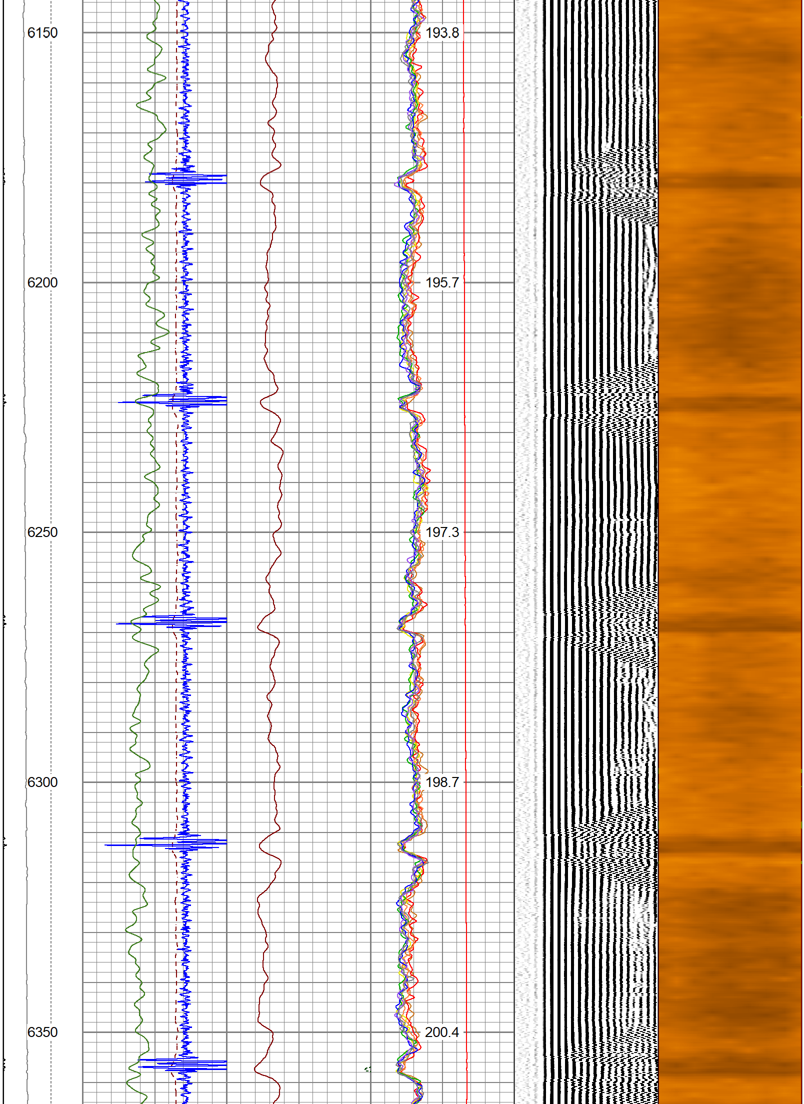

5050
167.3
5100
168.4
5150
169.5
5200
170.9
5250
171.9

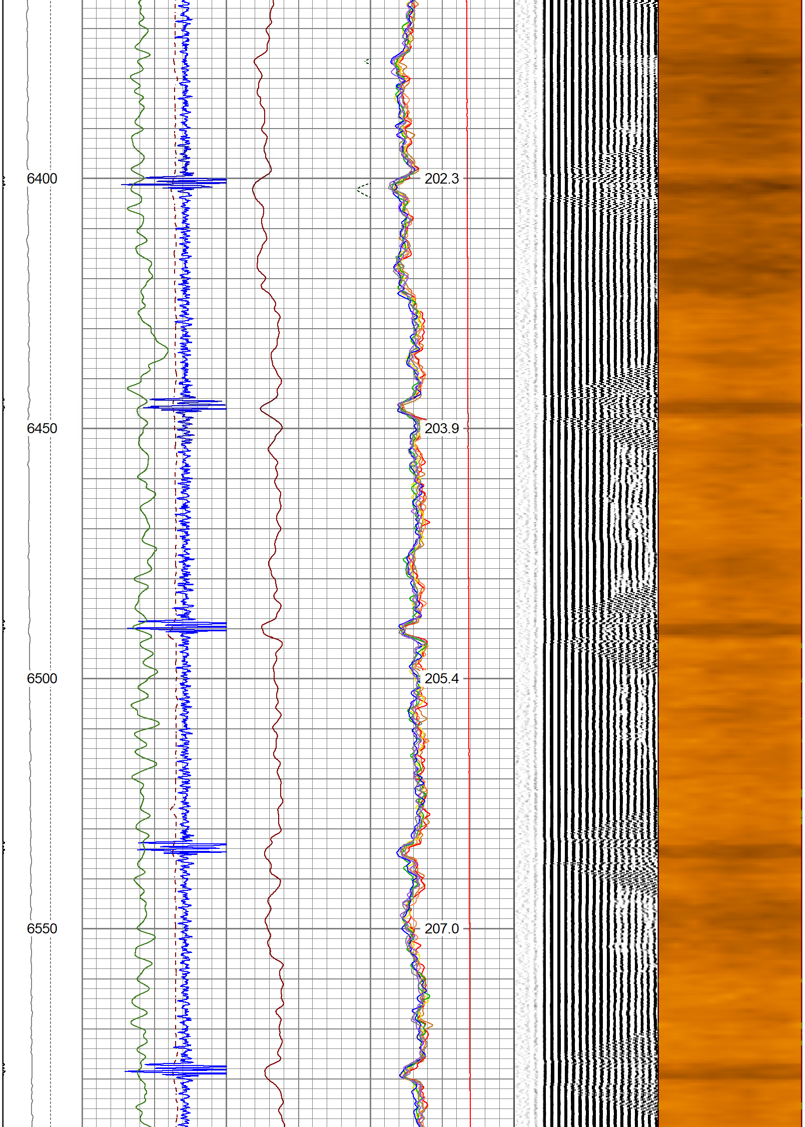

5300
172.9
5350
174.3
5400
175.3
5450
176.6
5500
177.4

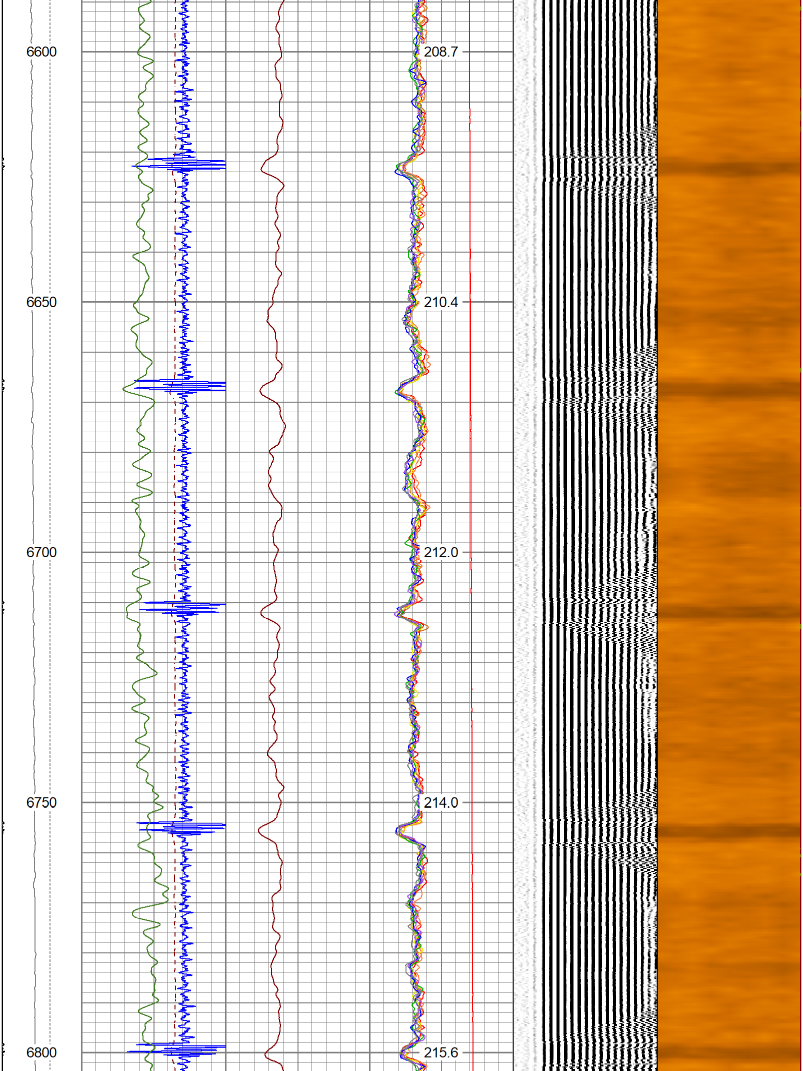

5550
178.4
5600
179.6
5650
180.5
5700
181.8

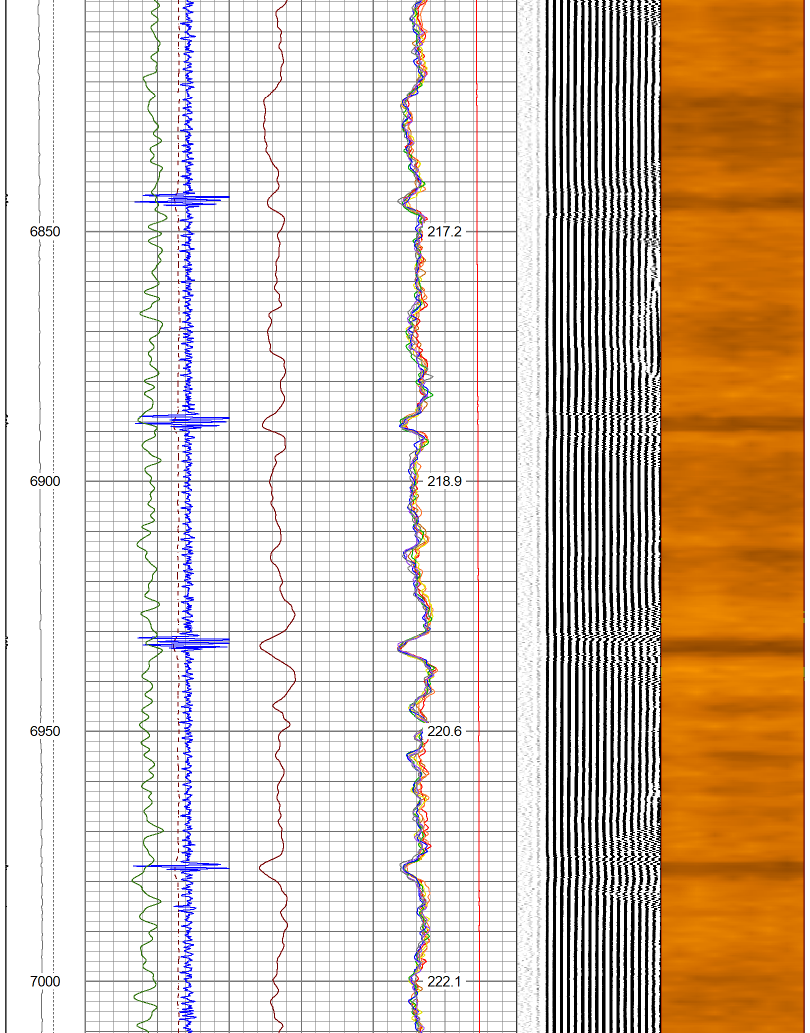

5750
183.0
5800
184.2
5850
185.4
5900
186.6

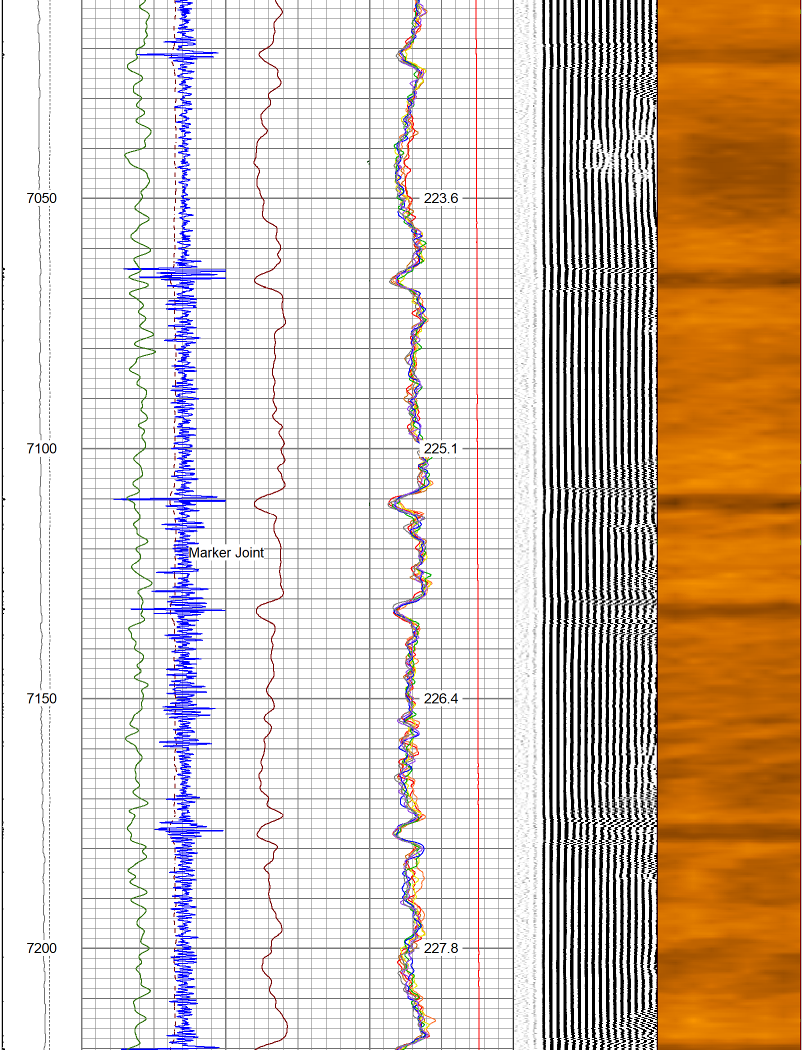

5950
187.9
6000
189.3
6050
190.8
6100
192.2

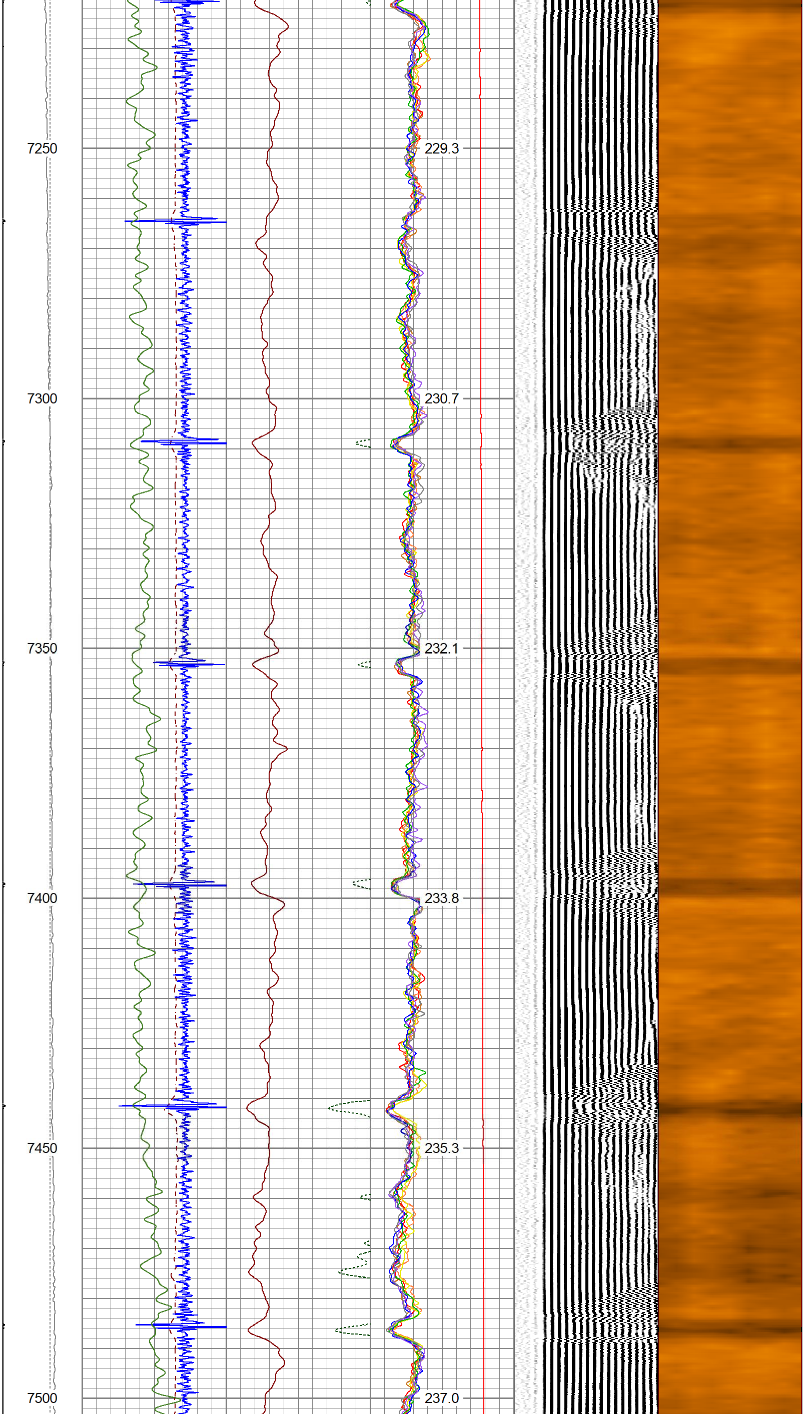

6150
193.8
6200
195.7
6250
197.3
6300
198.7
6350
200.4

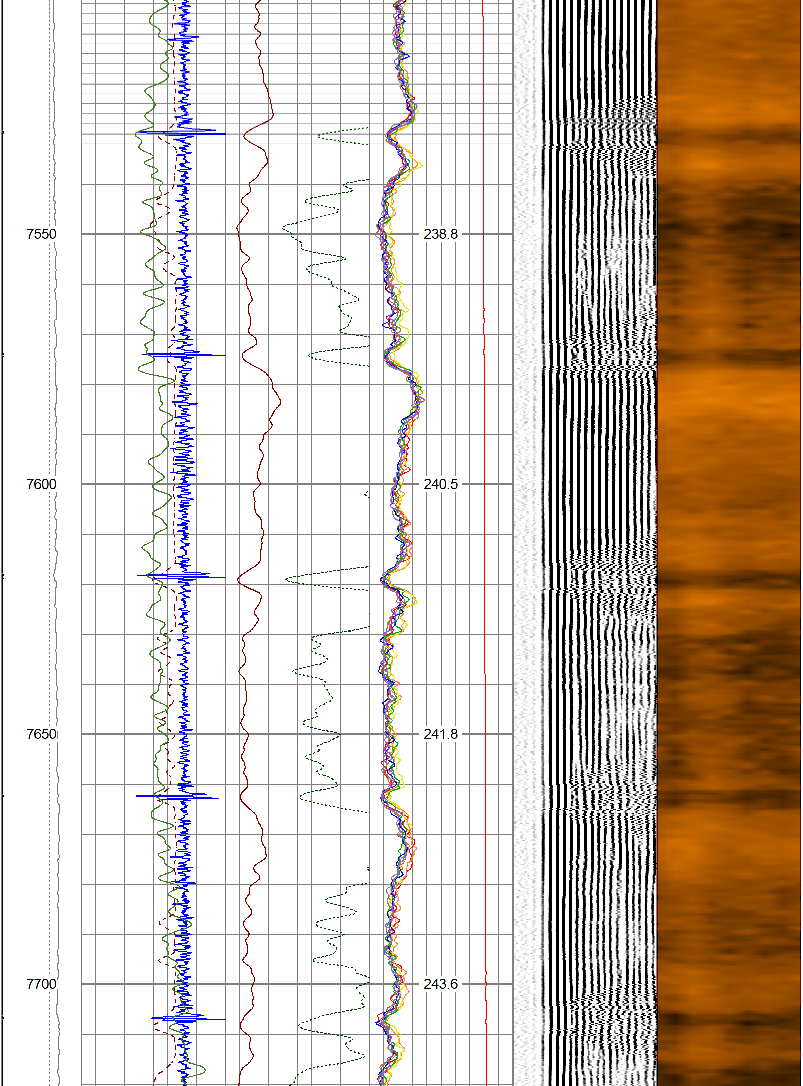

6400
202.3
6450
203.9
6500
205.4
6550
207.0

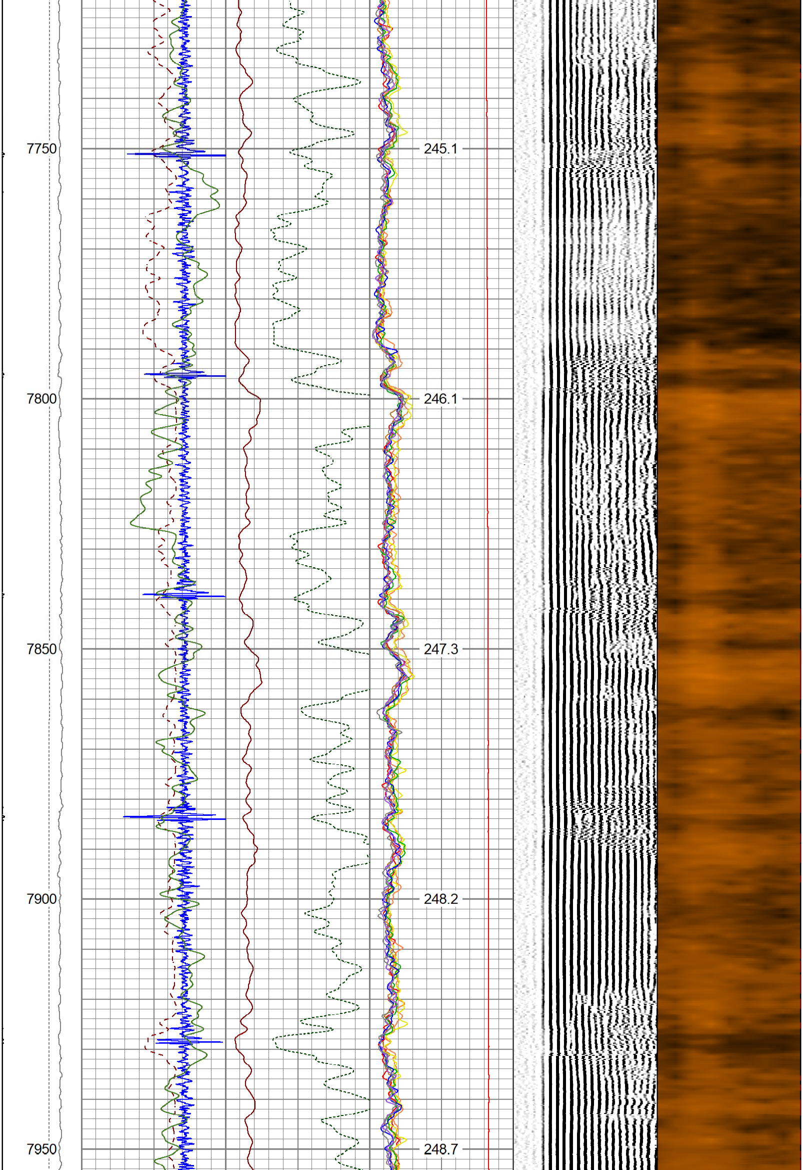

6600
208.7
6650
210.4
6700
212.0
6750
214.0
6800
215.6

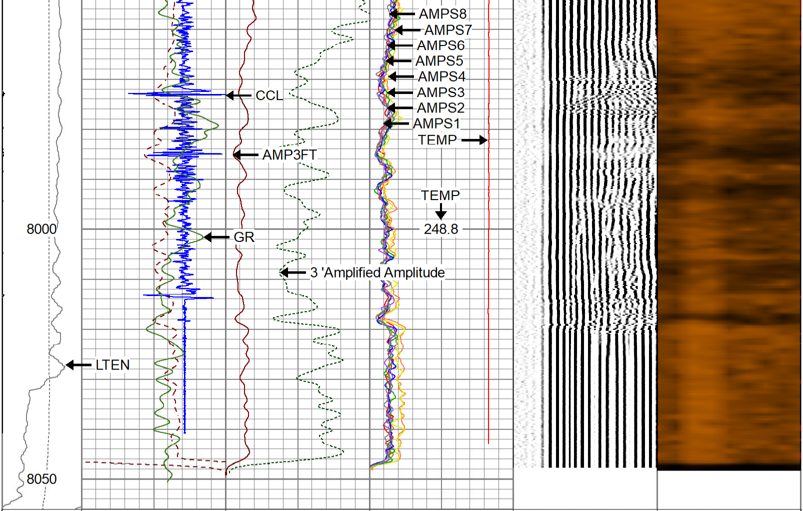

6850
217.2
6900
218.9
6950
220.6
7000
222.1


7050
223.6
7100
225.1
Marker Joint
7150
226.4
7200
227.8


7250
229.3
7300
230.7
7350
232.1
7400
233.8
7450
235.3
7500
237.0







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

GO WIRELINE LLC

Repeat Pass

Database File	pdc_stugart_22n_rcbl_31023.db
Dataset Pathname	pass6
Presentation Format	rbl_all_8_2020_t
Dataset Creation	Fri Mar 10 15:52:19 2023
Charted by	Depth in Feet scaled 1:240

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

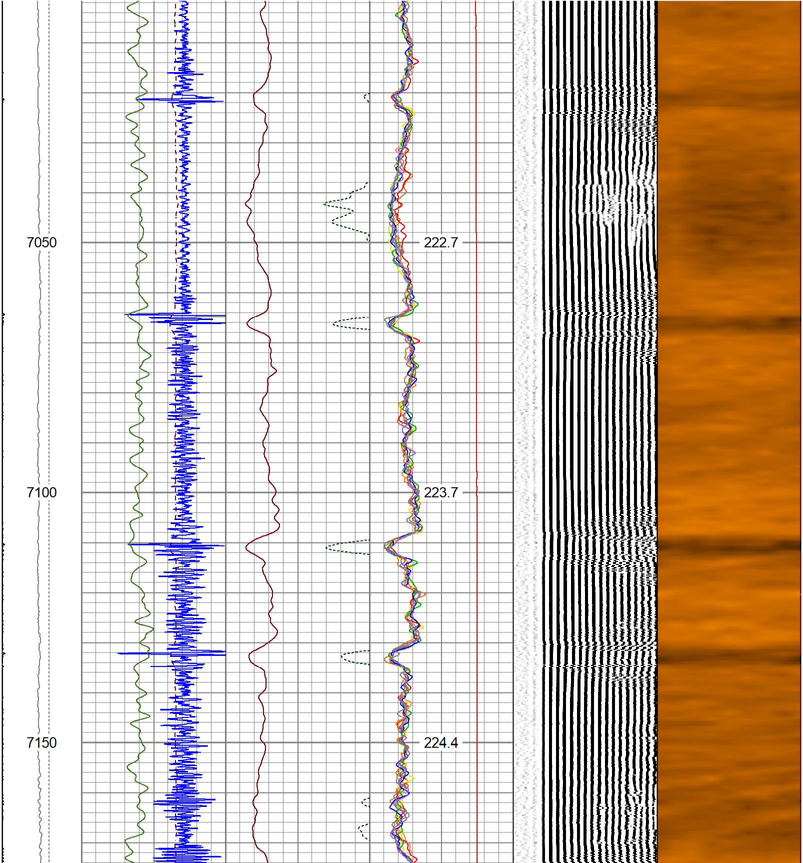
3' Travel Time
400 (usec) 200
Casing Collar Locator
GAMMA RAY
0 (GAPI) 200

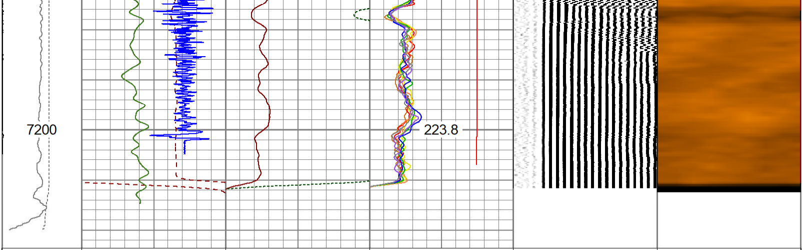
3' Amplitude
0 (mV) 100
3 'Amplified Amplitude
0 (mV) 20

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)

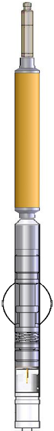
5' Variable Density
200 (usec) 1200
-409.6 (V) 409.4

1 Sector Map 8
0 95

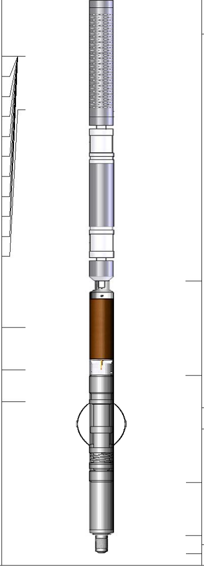




LTEN	3' Travel Time	3' Amplitude	0 AMPS1 150	5' Variable Density	1 Sector Map 8
0 (lb 1000	400 (usec) 200	0 (mV) 100	0 AMPS2 150	200 (usec) 1200	0 95
LSPD (ft/min)	Casing Collar Locator	3 'Amplified Amplitude	0 AMPS3 150	-409.6 (V) 409.4	
500 -500	GAMMA RAY	0 (mV) 20	0 AMPS4 150		
0 CCL 100	0 (GAPI) 200		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
CCL	15.21		PROBE-CCL-ANALOG-CCL-A (Probe-CCL-A1) Probe 2 3/4" Logging CCL	3.00	2.75	10.00
			CENT-overbody	2.00	4.50	3.00
TEMP	11.57					

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-RBT-DIGITAL-RBL-DCT (130373) Probe 2 3/4" Radii Bond with Temp-Corrosion Package	9.21	2.75	105.00
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_22n_rcbl_31023.db: field/well/run1/pass8.1
Total length:	18.32 ft
Total weight:	187.00 lb
O.D.:	4.50 in

Calibration Report

Database File	pdc_stugart_22n_rcbl_31023.db
Dataset Pathname	pass8.1
Dataset Creation	Fri Mar 10 17:22:42 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	0.802	0.500	71.921	89.095	0.499
CAL	0.032	1.009				
5'	0.000	0.731	0.500	71.921	97.652	0.500
SUM						
S1	-0.020	0.849	0.000	100.000	115.149	2.247
S2	0.000	0.858	0.000	100.000	116.589	-0.001
S3	-0.024	0.837	0.000	100.000	116.275	2.736
S4	-0.008	0.841	0.000	100.000	117.771	0.905
S5	-0.002	0.861	0.000	100.000	115.843	0.215
S6	0.000	0.852	0.000	100.000	117.368	-0.001
S7	0.000	0.844	0.000	100.000	118.436	-0.002
S8	0.000	0.860	0.000	100.000	116.337	-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

GO WIRELINE LLC

Company	PDC Energy
Well	Stugart 22N
Field	Wattenberg
County	Weld
State	Colorado