GO WIRELINE LLC

Radial Bond
Gamma Ray
CCL,Temp

Company	PDC Energy
Well	Stugart 13NA
Field	Wattenberg
County	Weld
State	Colorado

Company PDC Energy
Well Stugart 13NA
Field Wattenberg
County Weld
State Colorado

Location: API # : 05-123-51261

2050' FNL & 2122' FWL

SEC 20 TWP 5N RGE 66W

Other Services

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

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

Date	03-MAR-2023		
Run Number	One		
Depth Driller	14884'		
Depth Logger	7460'		
Bottom Logged Interval	7455'		
Top Log Interval	Surface		
Open Hole Size	8.5"		
Type Fluid	Water		
Density / Viscosity	8.34 lb/gal		
Max. Recorded Temp.	249°F		
Estimated Cement Top	See Log		
Time Well Ready	ROA		
Time Logger on Bottom	16:09		
Equipment Number	24		
Location	Greeley, CO		
Recorded By	J.Morrison		
Witnessed By	Billy Myers		CAS03052023

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	1654'
Prot. String				
Production String	5.5"	20#	Surface	14877'
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.

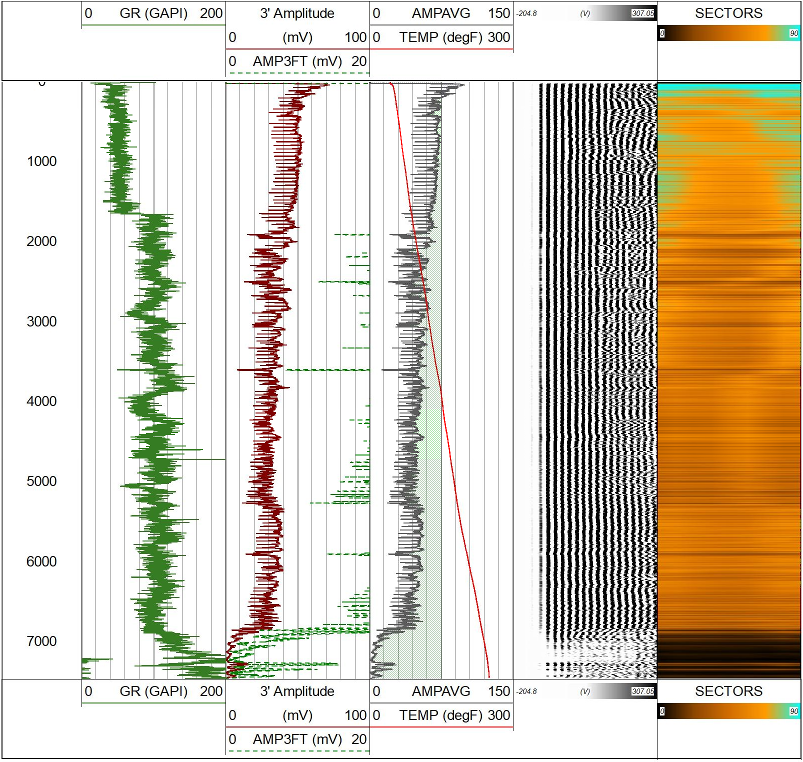
Comments

Log correlated to Marker Joint at 6552-6564 FT
Log ran as per customer request under 0 PSI
Tools were clean and free of debris

Thank you for choosing GO Wireline!

Main Pass

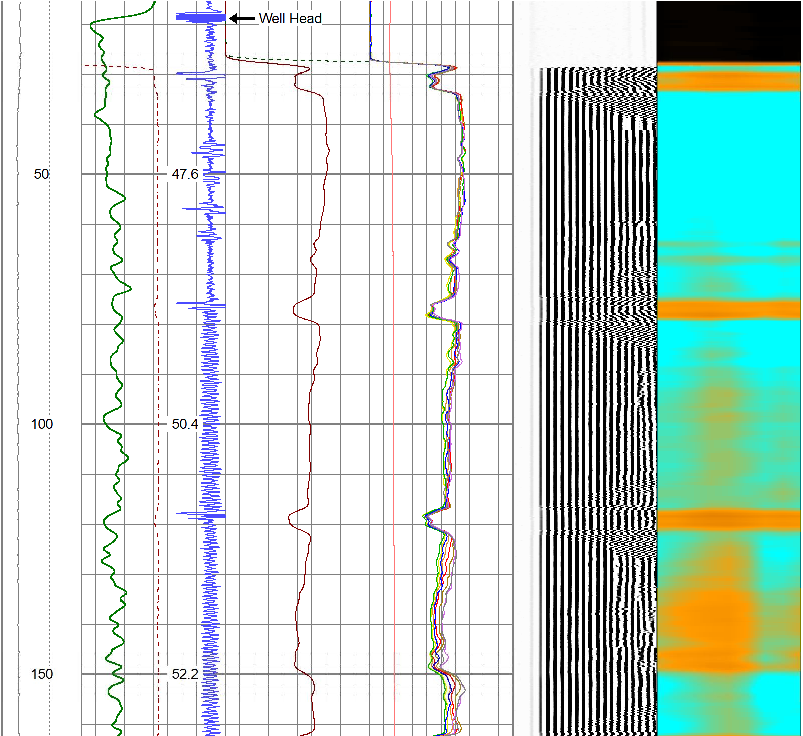
Database File	pdc_stugart_13na_rcbl.db
Dataset Pathname	Main.2
Presentation Format	rbl_1inch_2020
Dataset Creation	Sun Mar 05 15:18:50 2023
Charted by	Depth in Feet scaled 1:15000

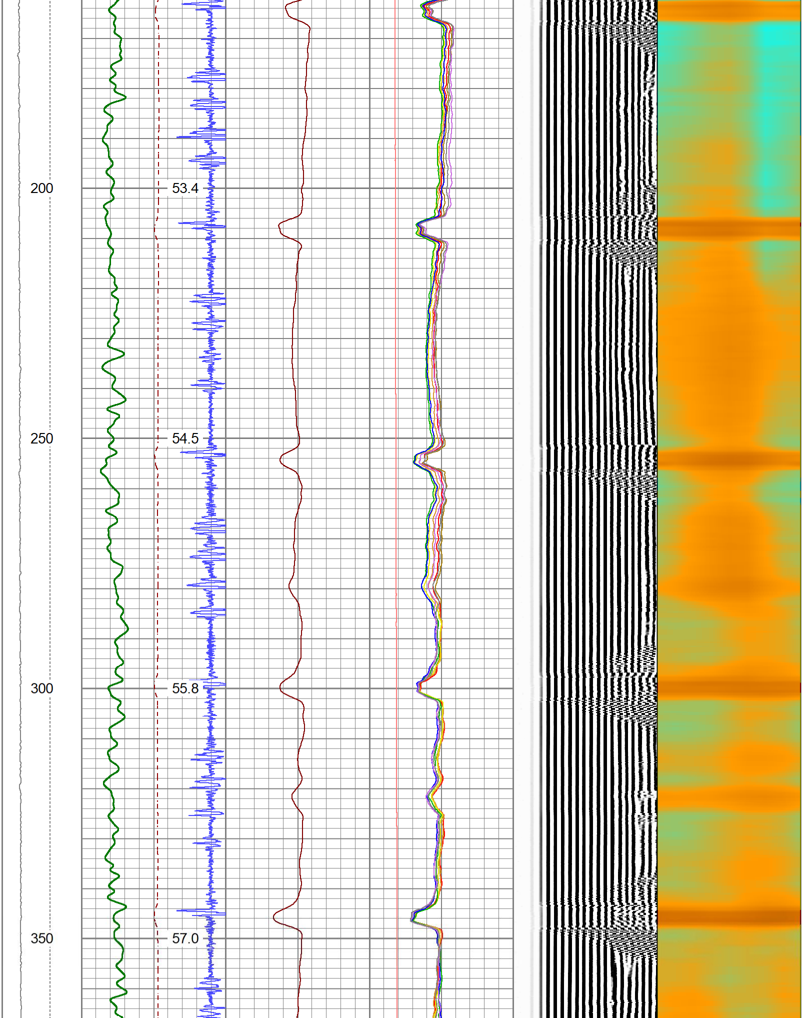


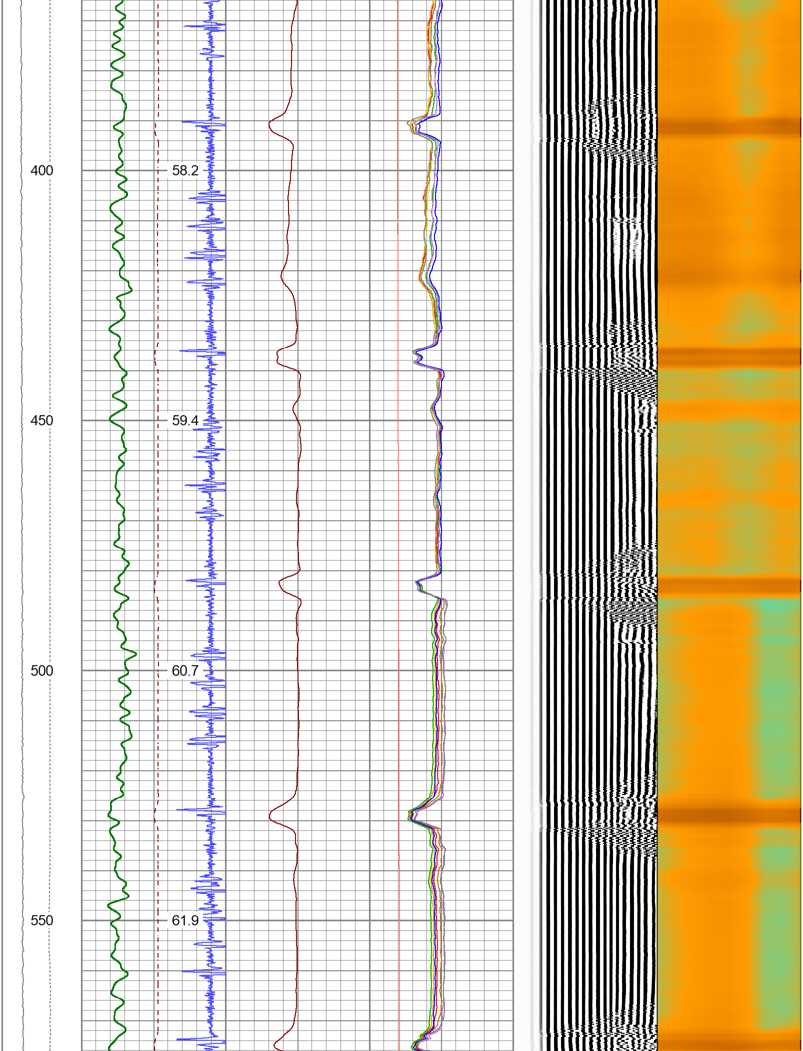
Main Pass

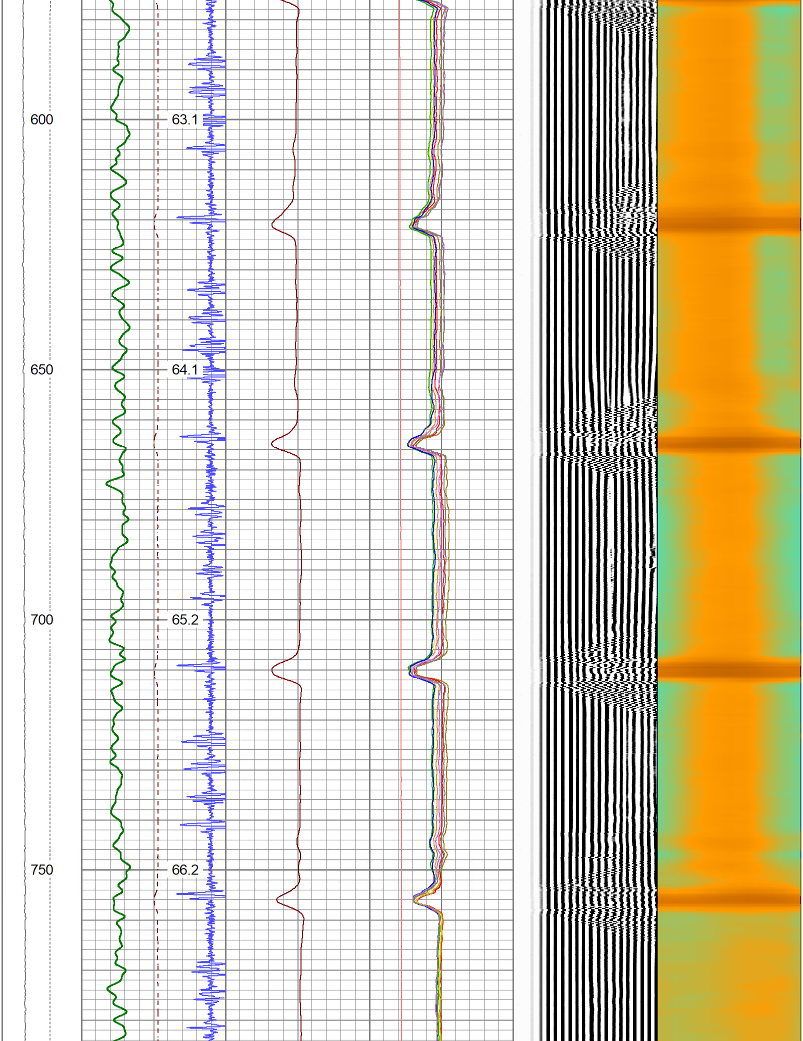
Database File	pdc_stugart_13na_rcbl.db
Dataset Pathname	Main.2
Presentation Format	rbl_all_8_2020_t
Dataset Creation	Sun Mar 05 15:18:50 2023
Charted by	Depth in Feet scaled 1:240

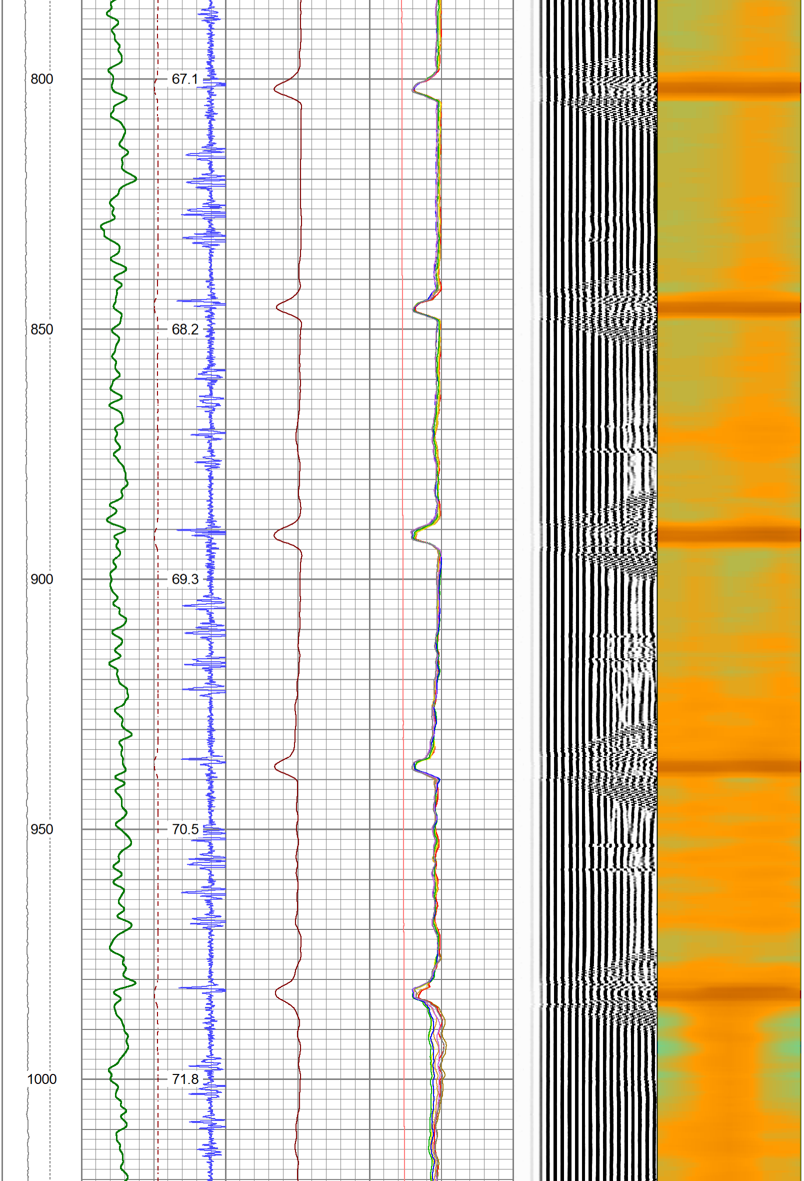
LTEN	Gamma Ray	3' Amplitude	0 AMPS1 150	WVF5FT	SECTORS
0 (lb 1000	0 (GAPI) 200	0 (mV) 100	0 AMPS2 150	200 (usec) 1200	0 90
LSPD (ft/min)	TT3FT	3 'Amplified Amplitude	0 AMPS3 150	(V)	
500 -500	380 (usec) 180	0 (mV) 20	0 AMPS4 150		
	CCL		0 AMPS5 150		
	TEMP		0 AMPS6 150		
	(degF)		0 AMPS7 150		
			0 AMPS8 150		
			0 TEMP (degF) 300		

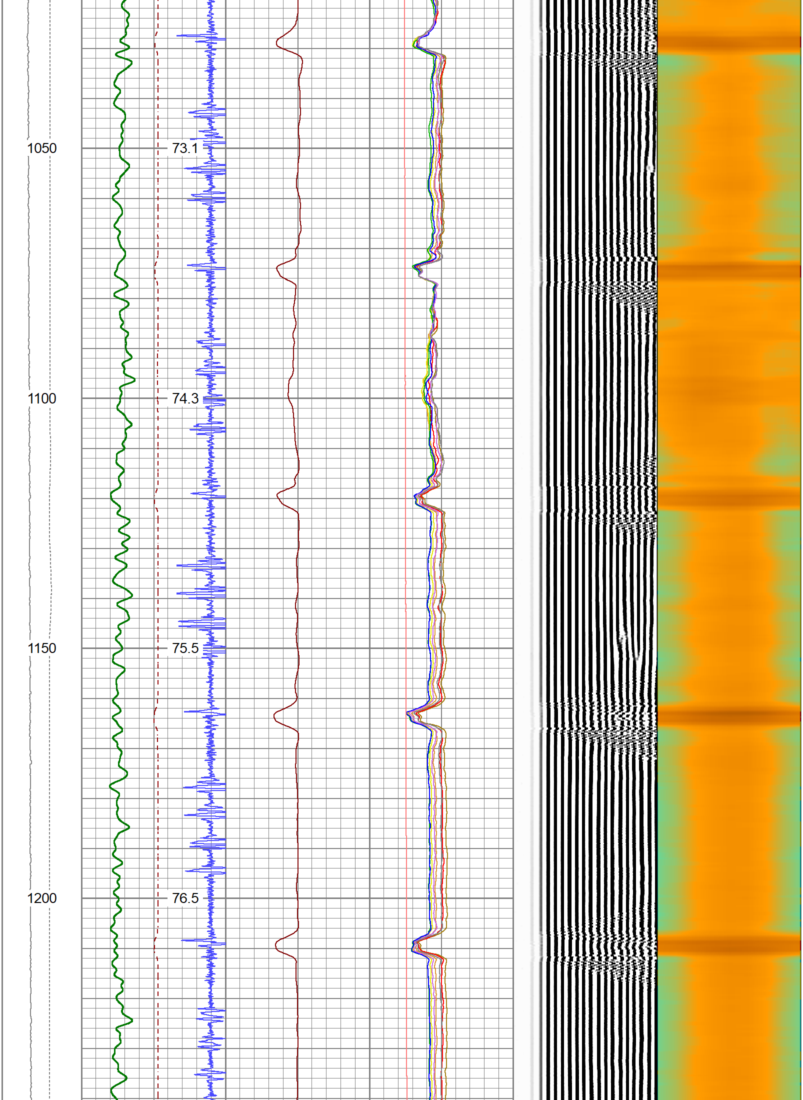


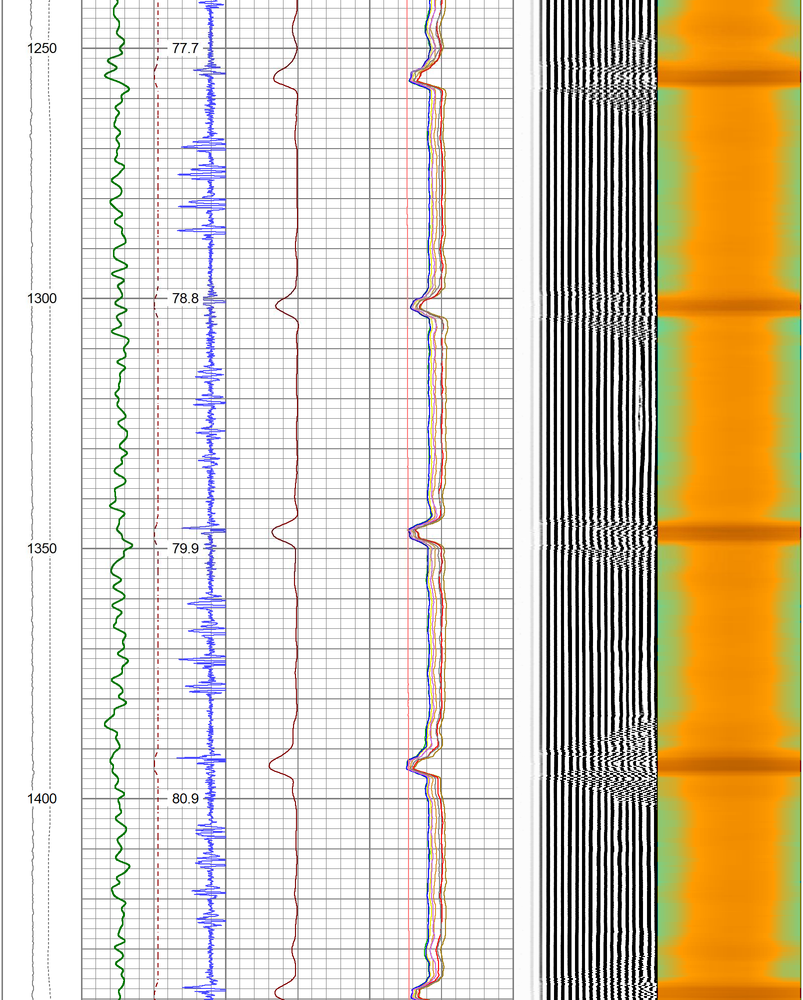


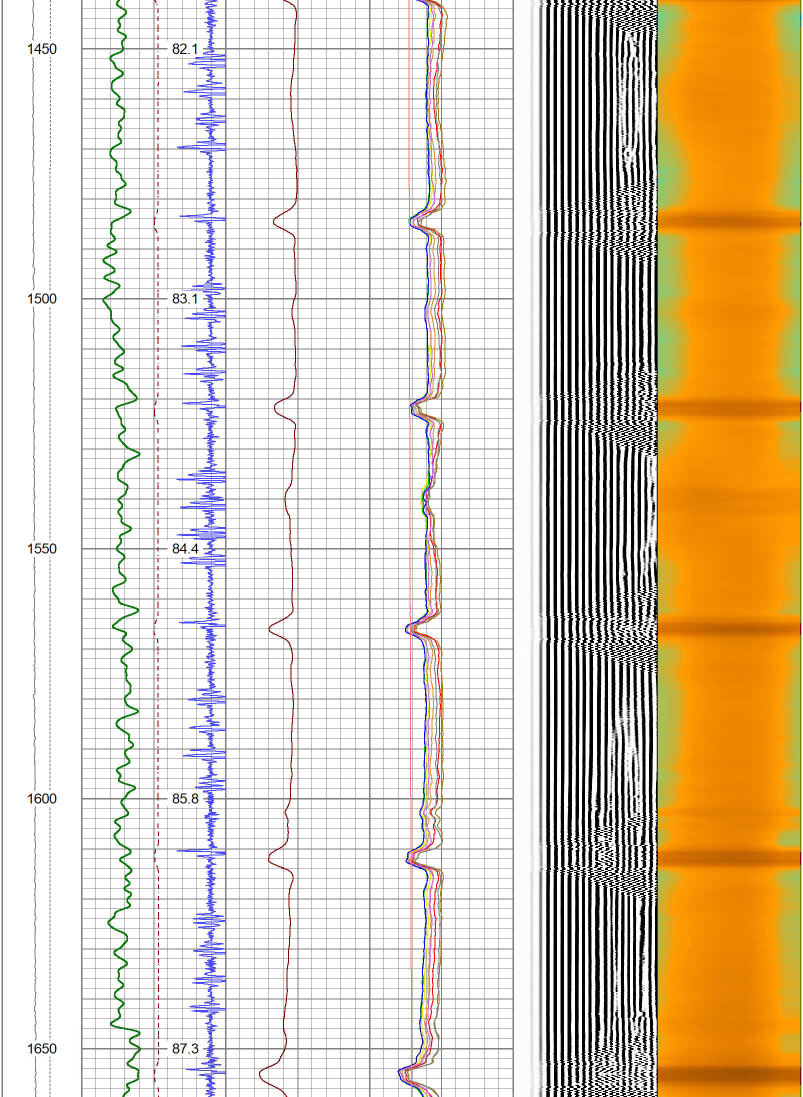


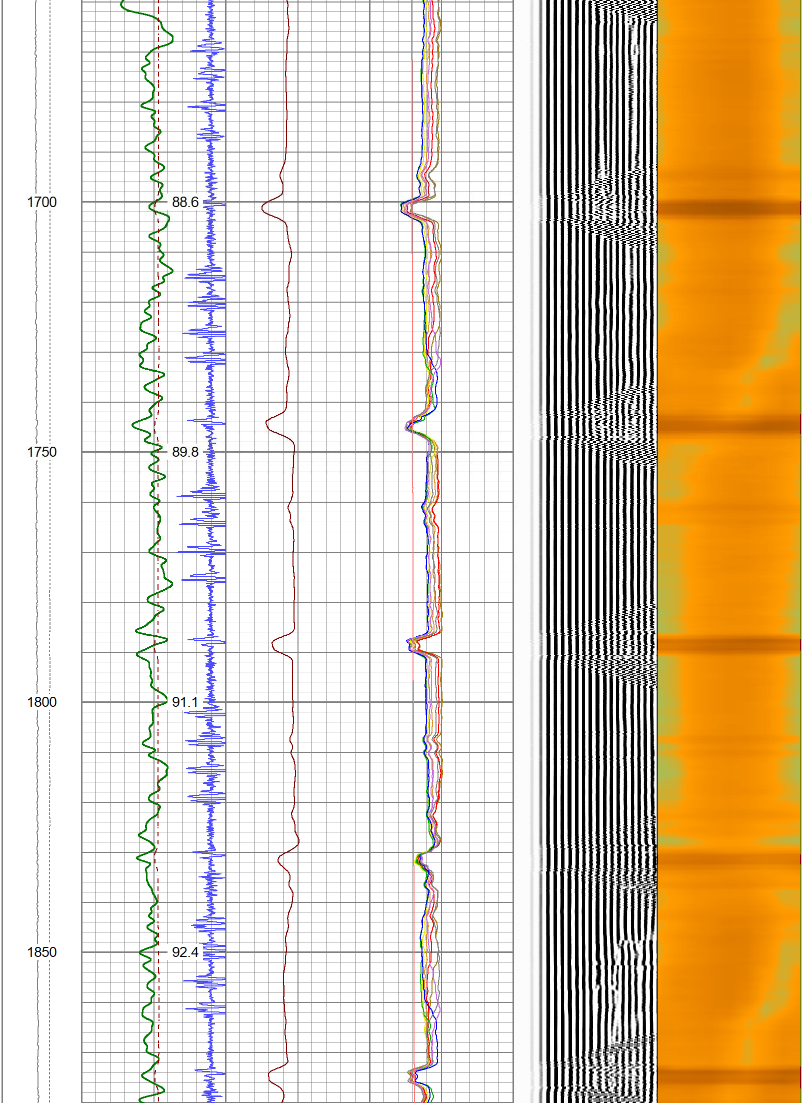


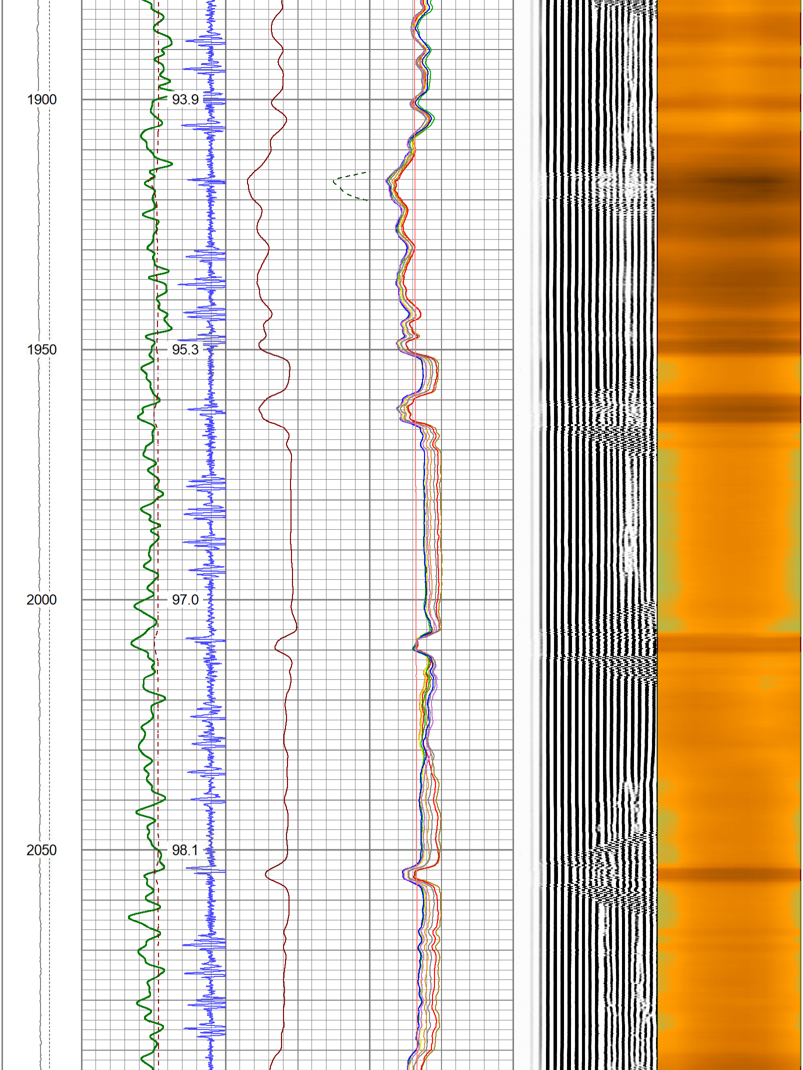


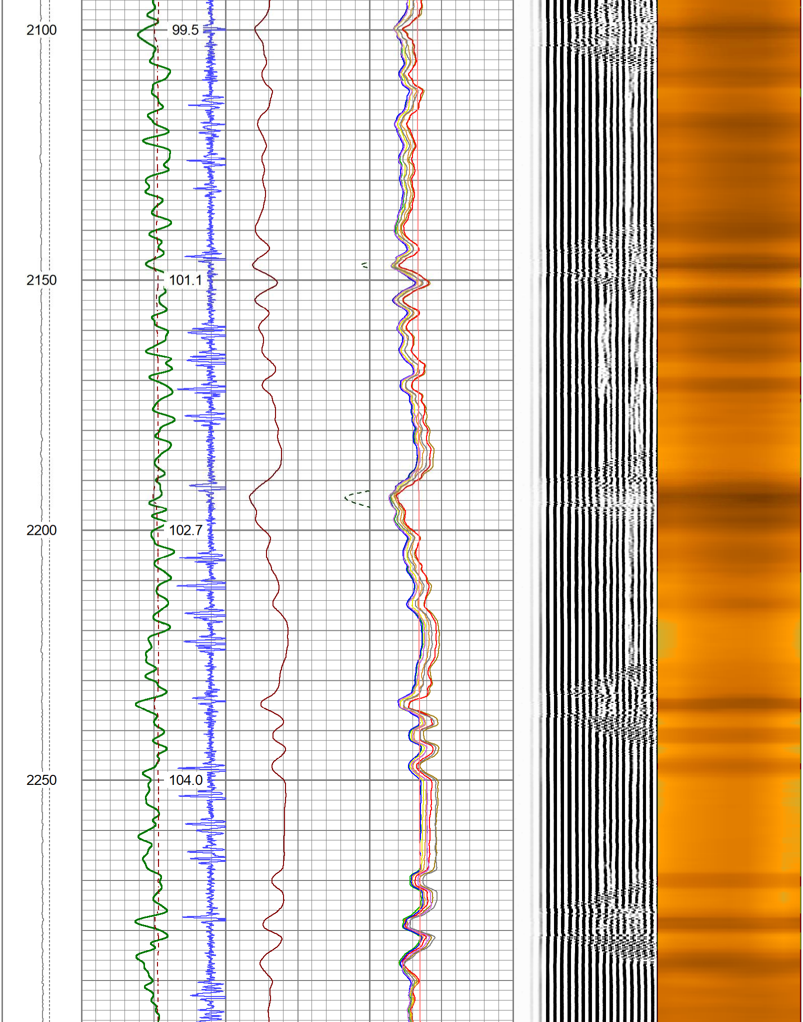


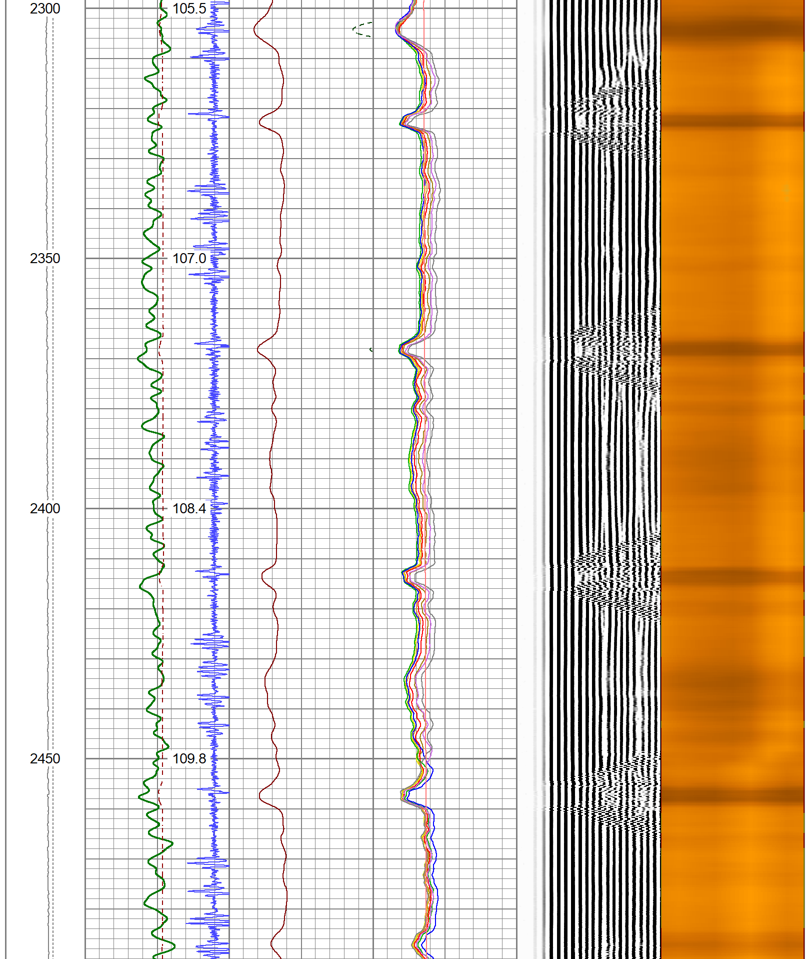


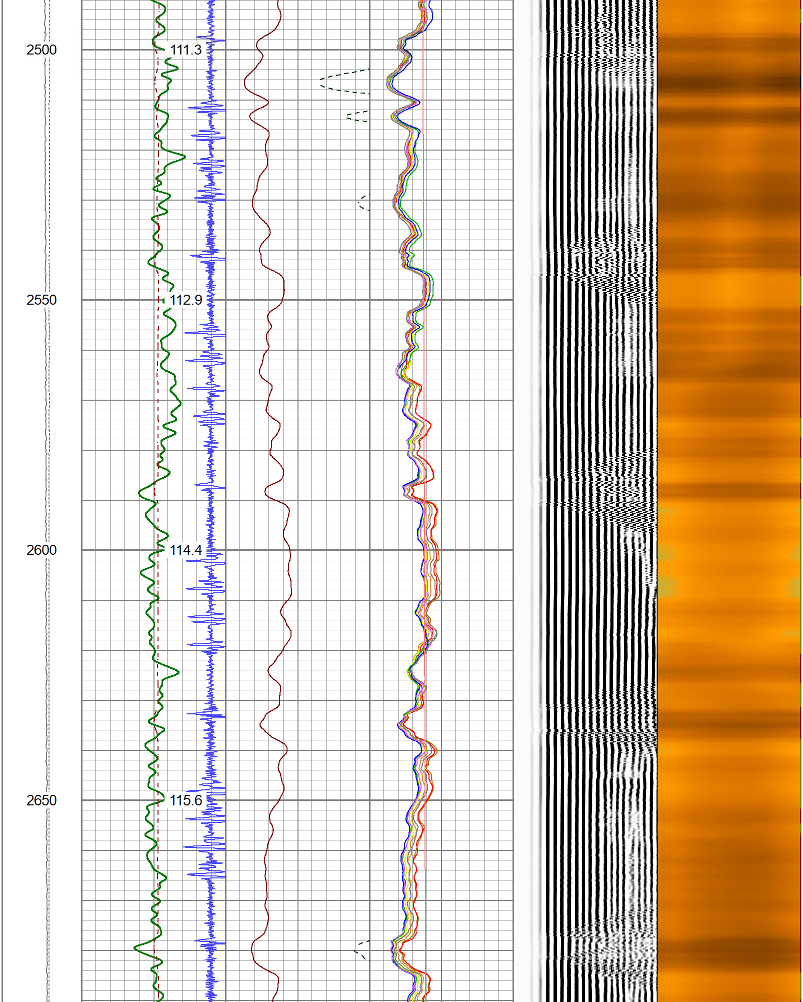


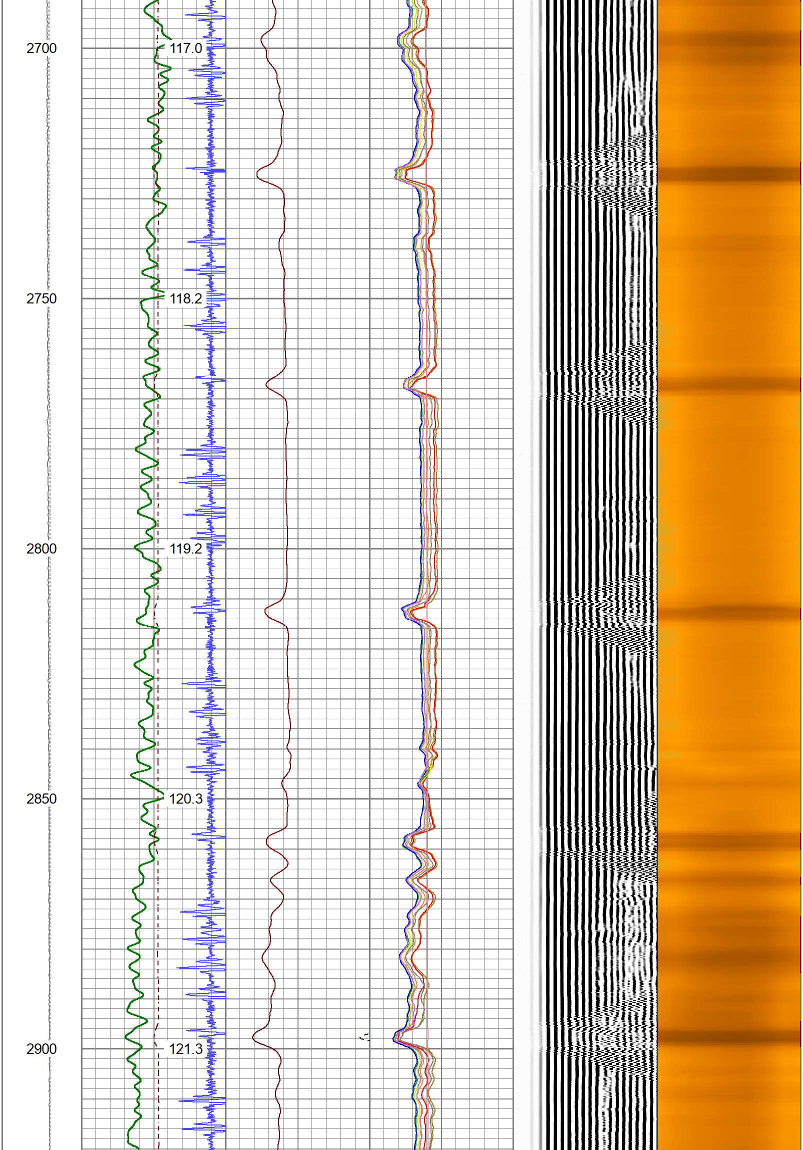


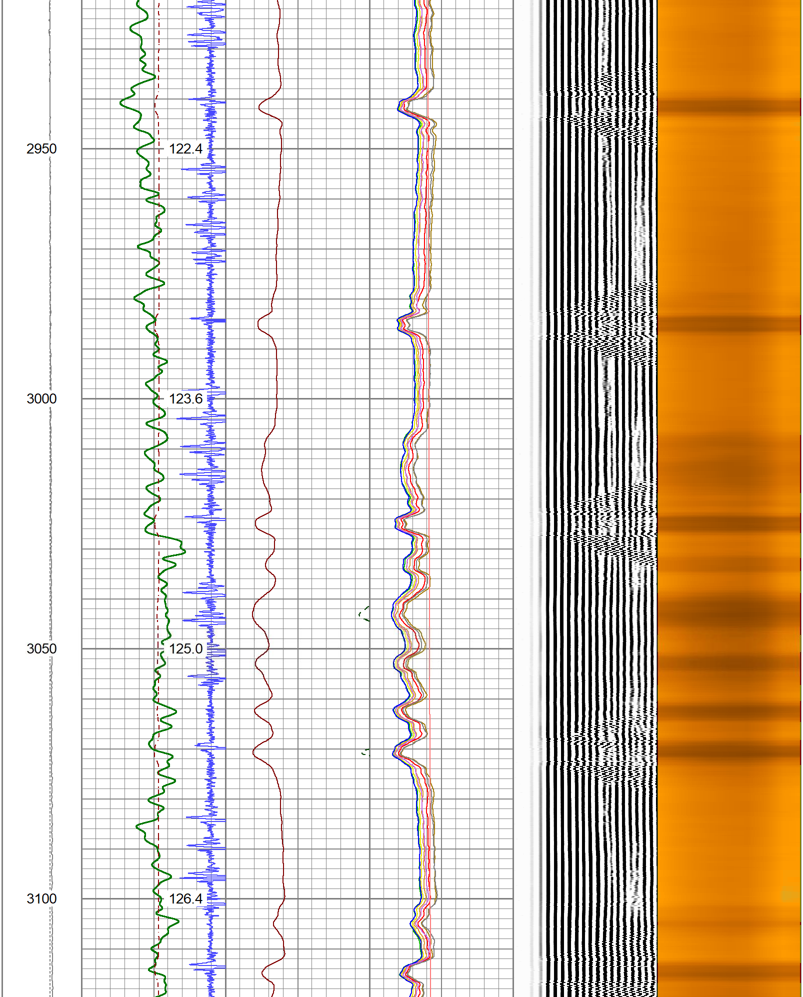


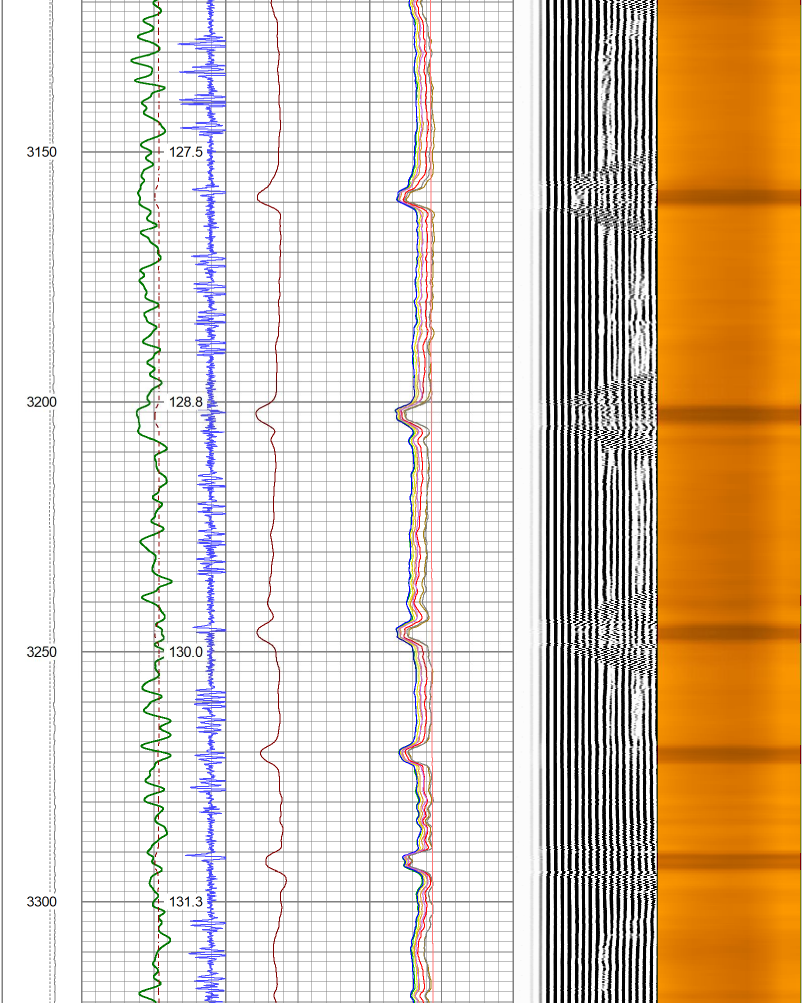


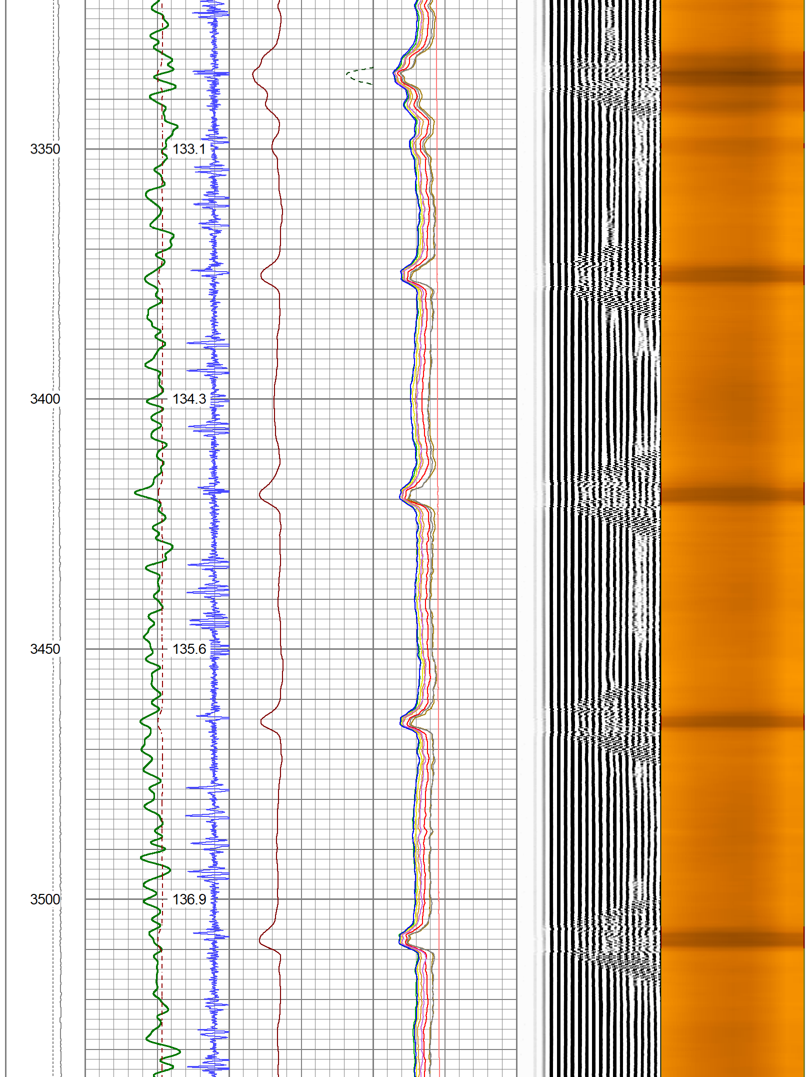


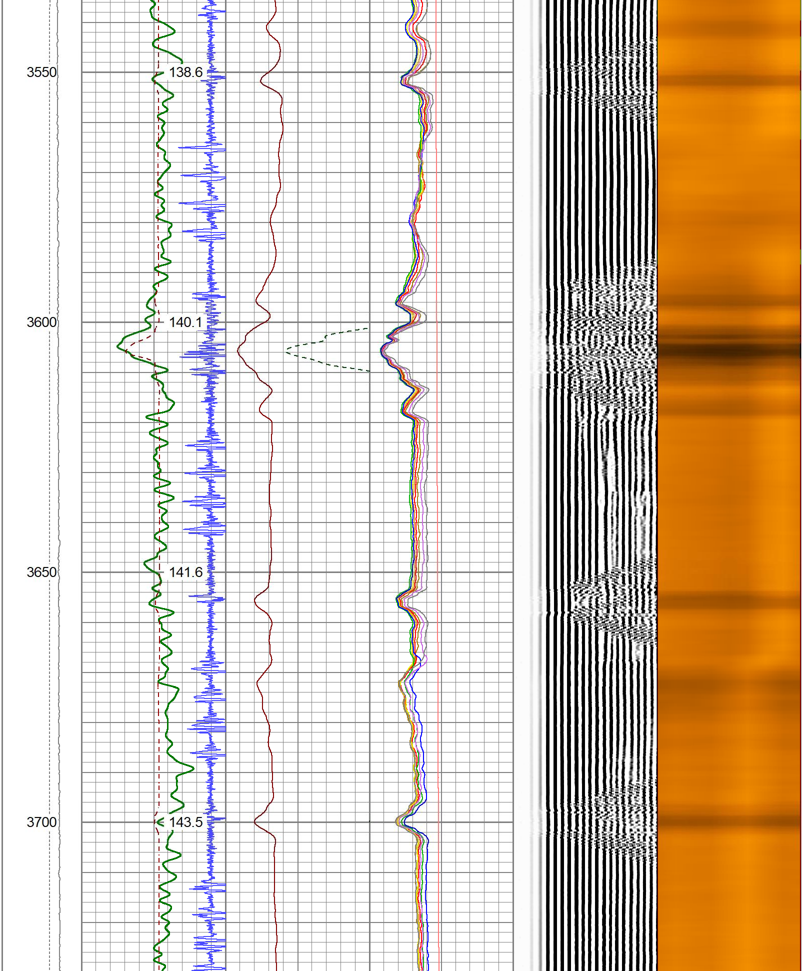


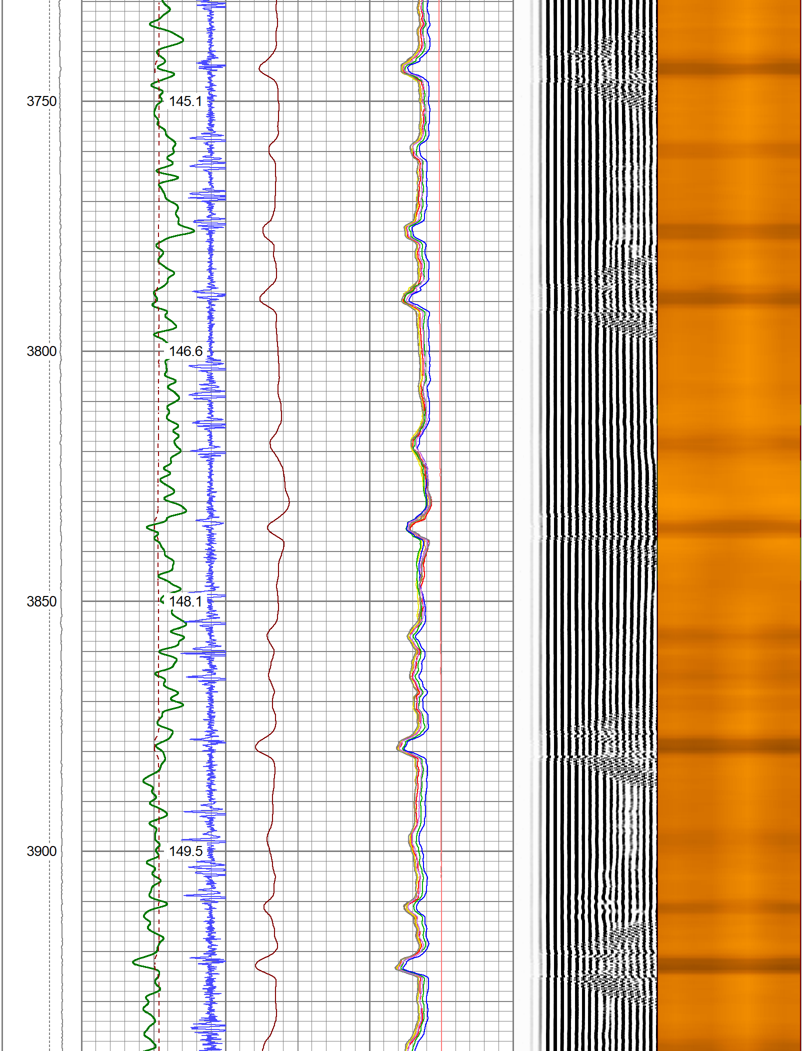


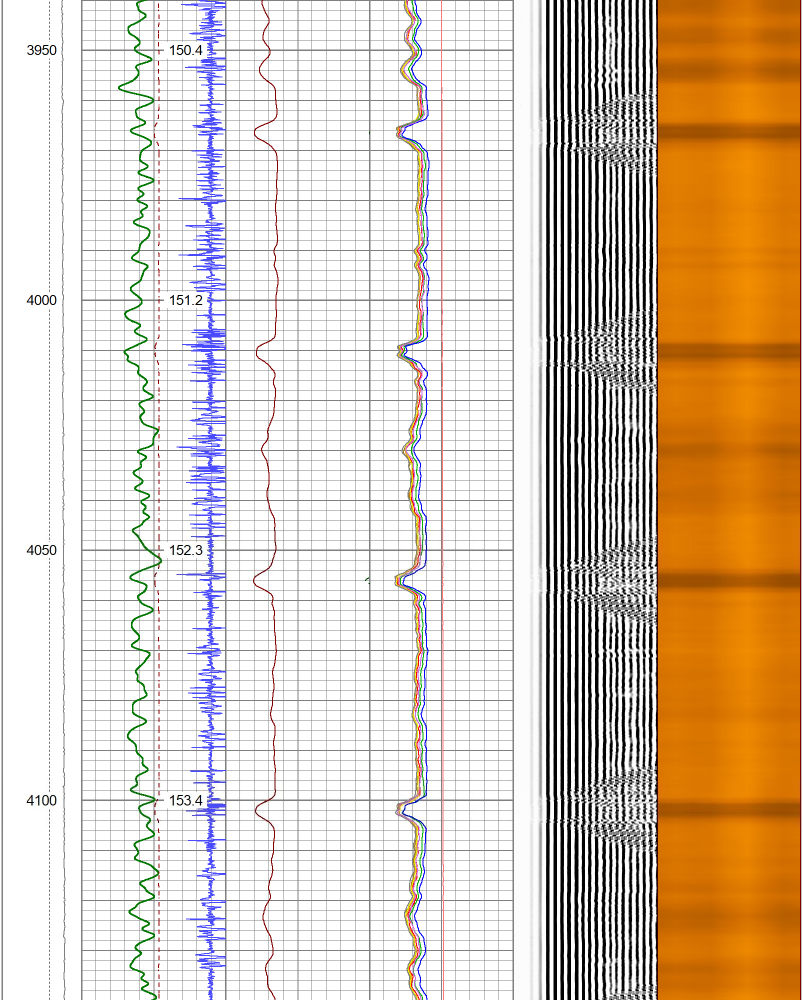


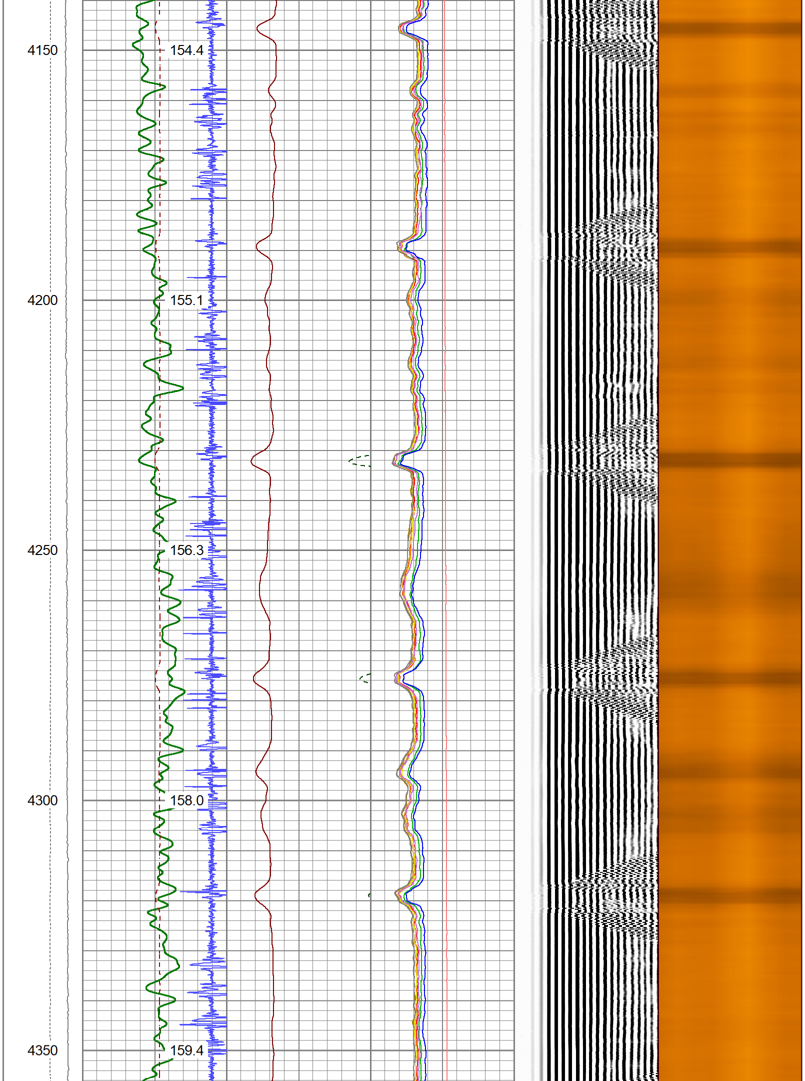


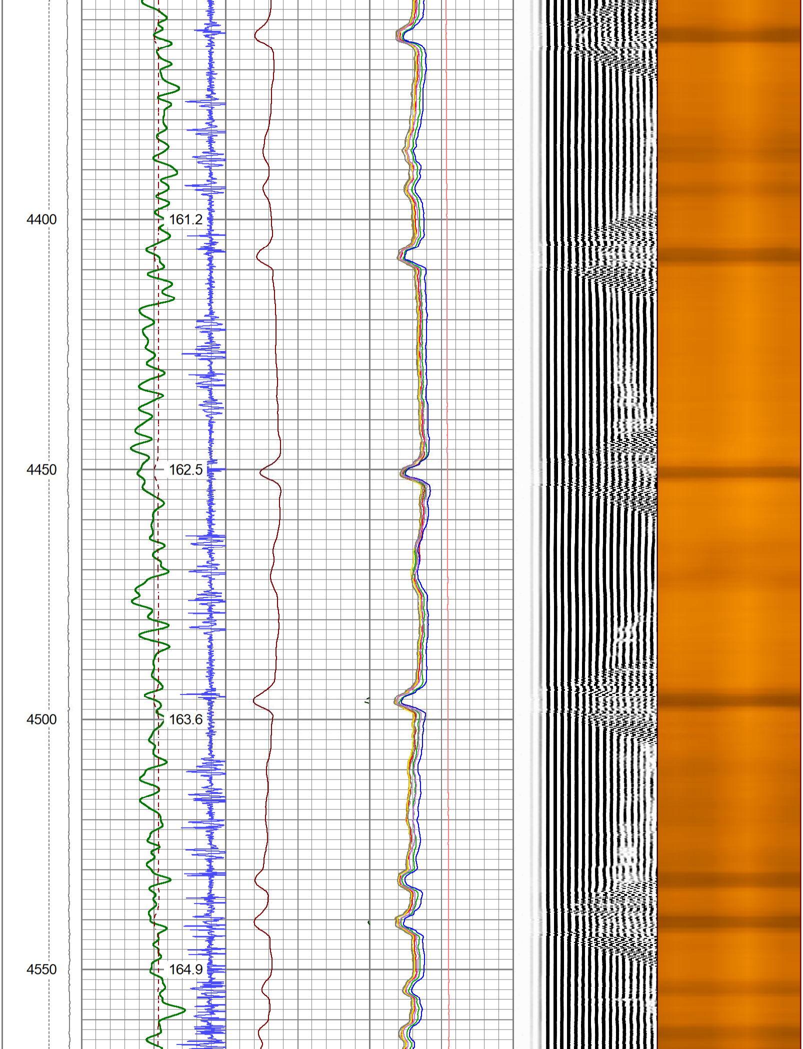


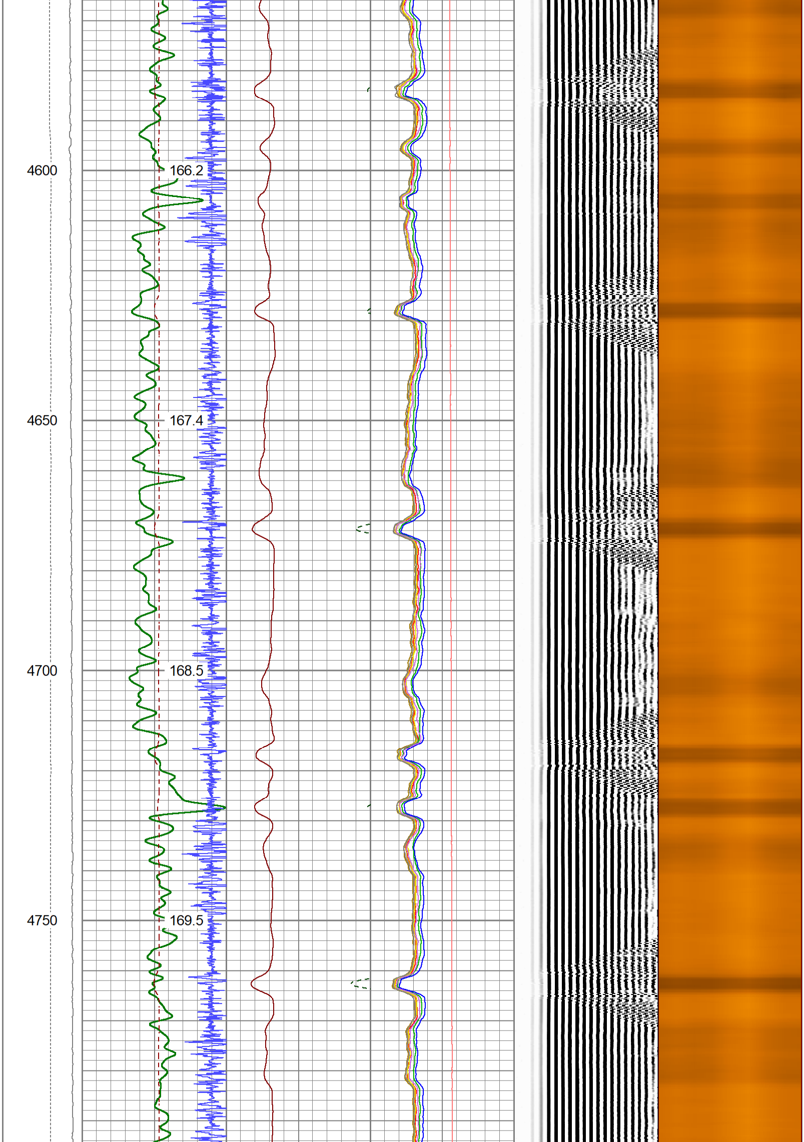


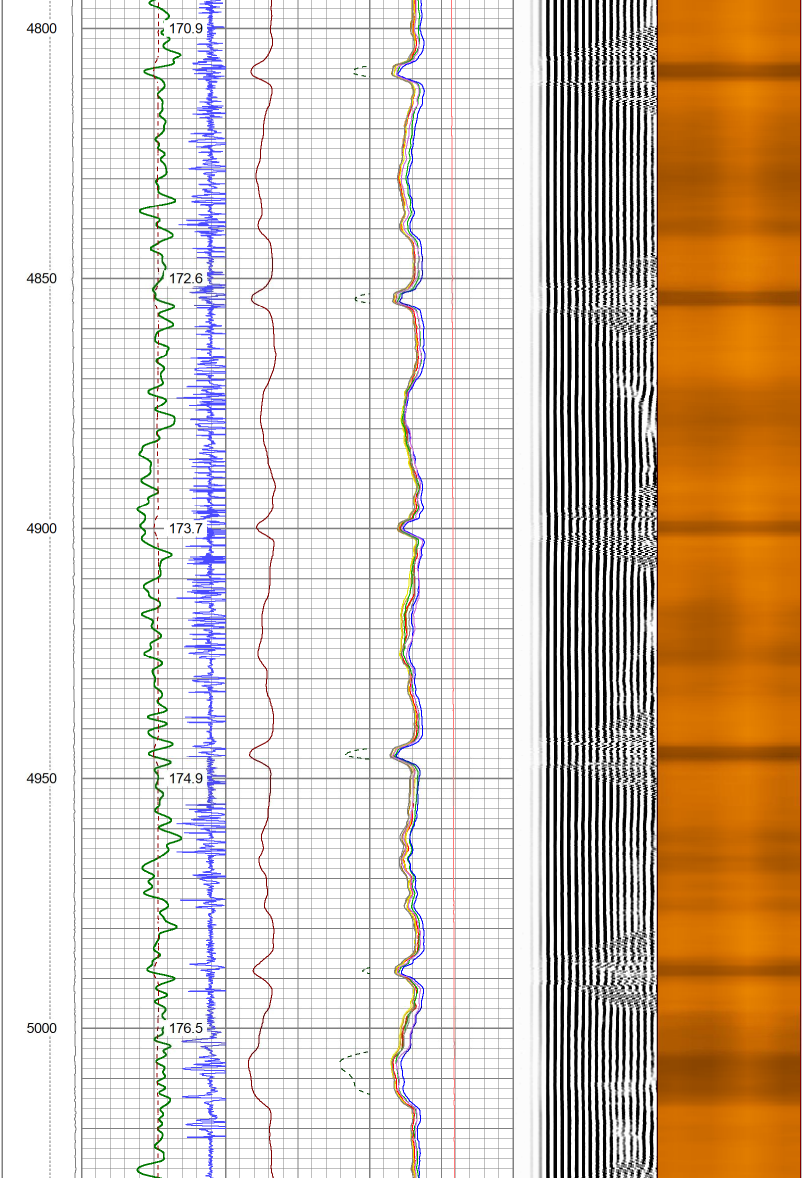


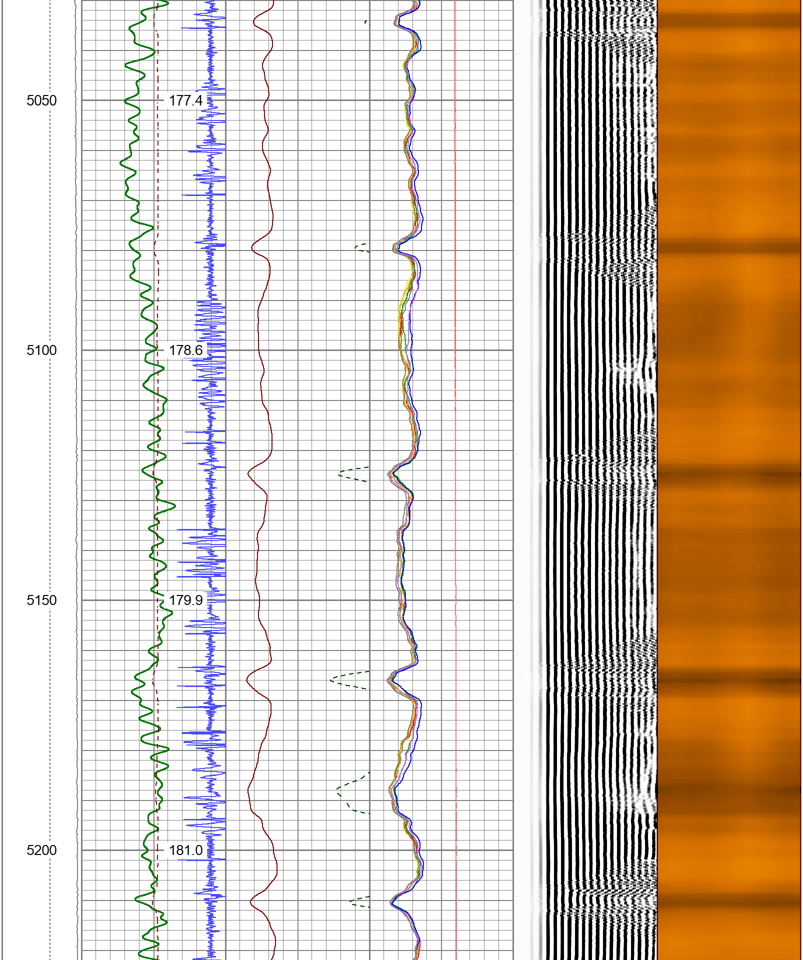


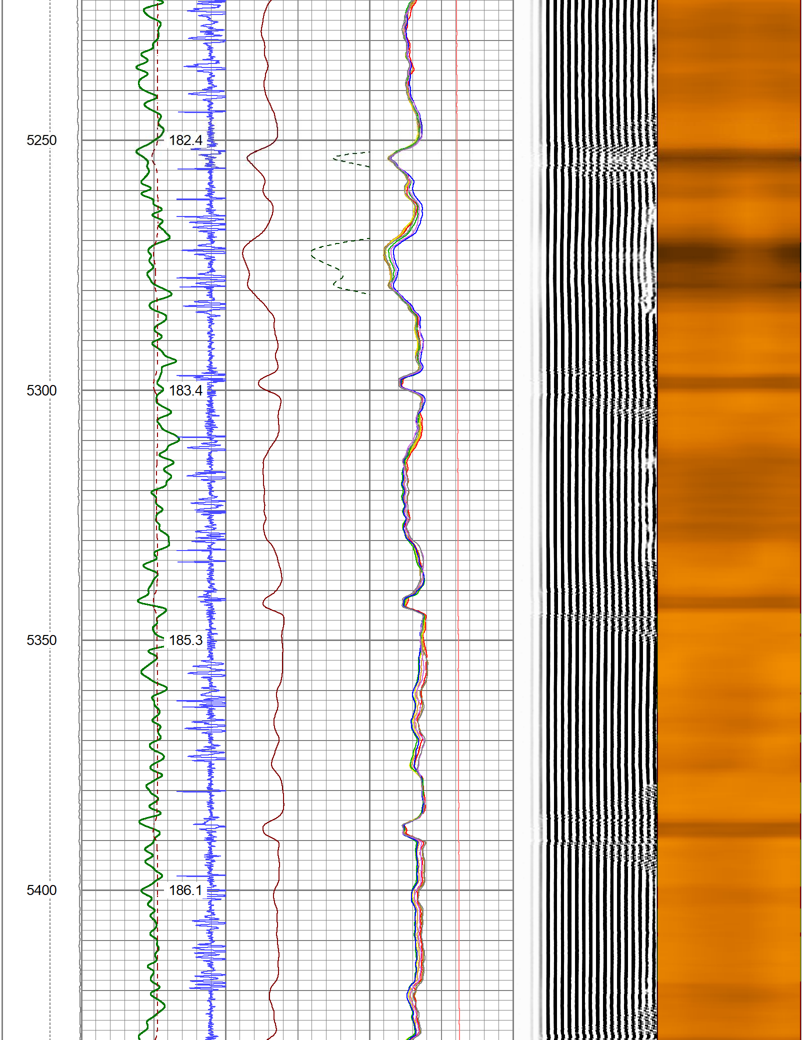


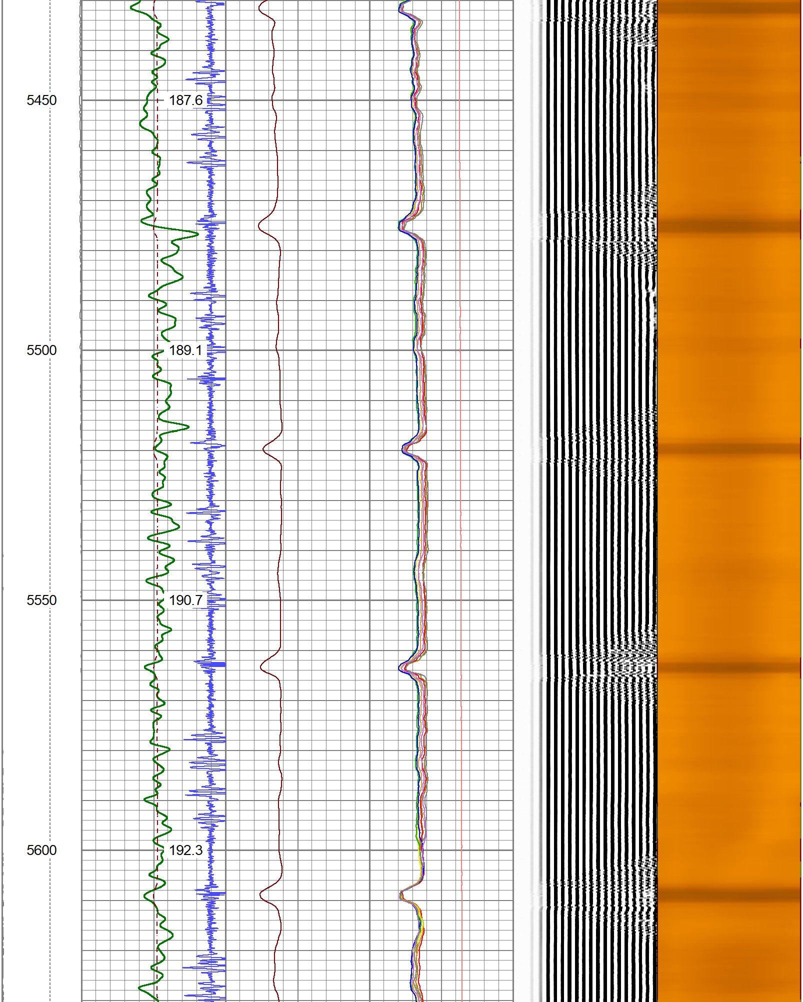


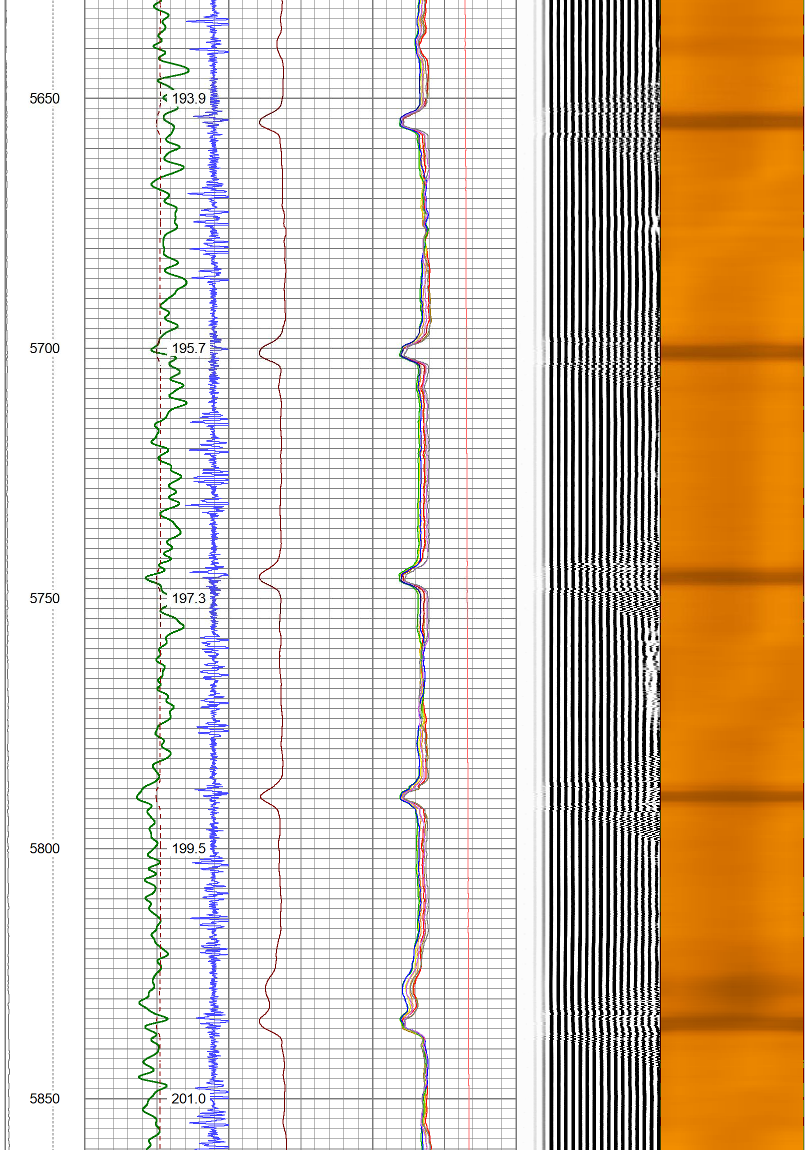


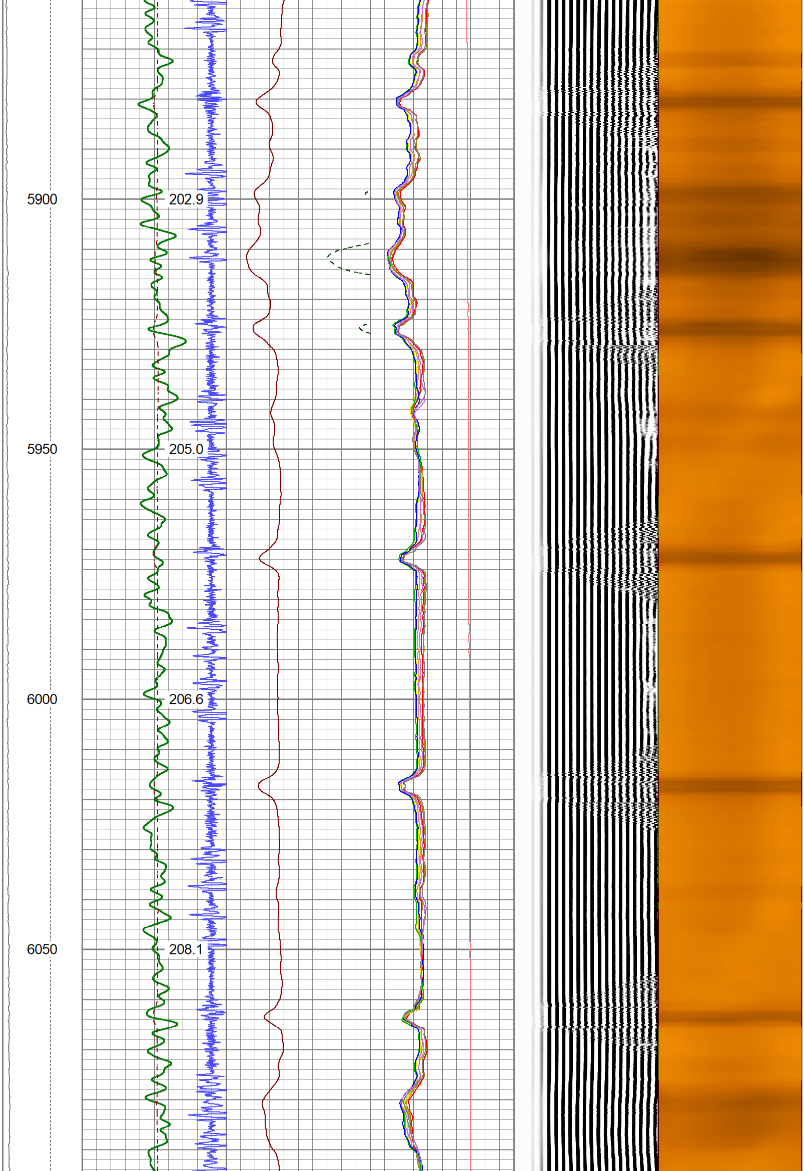


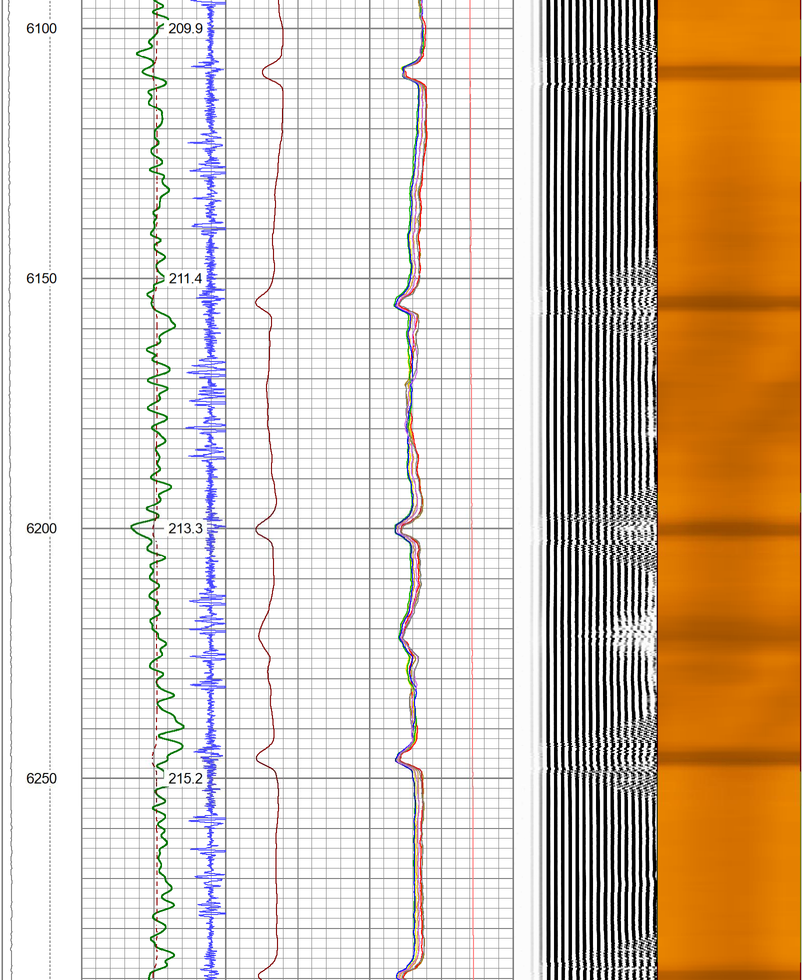


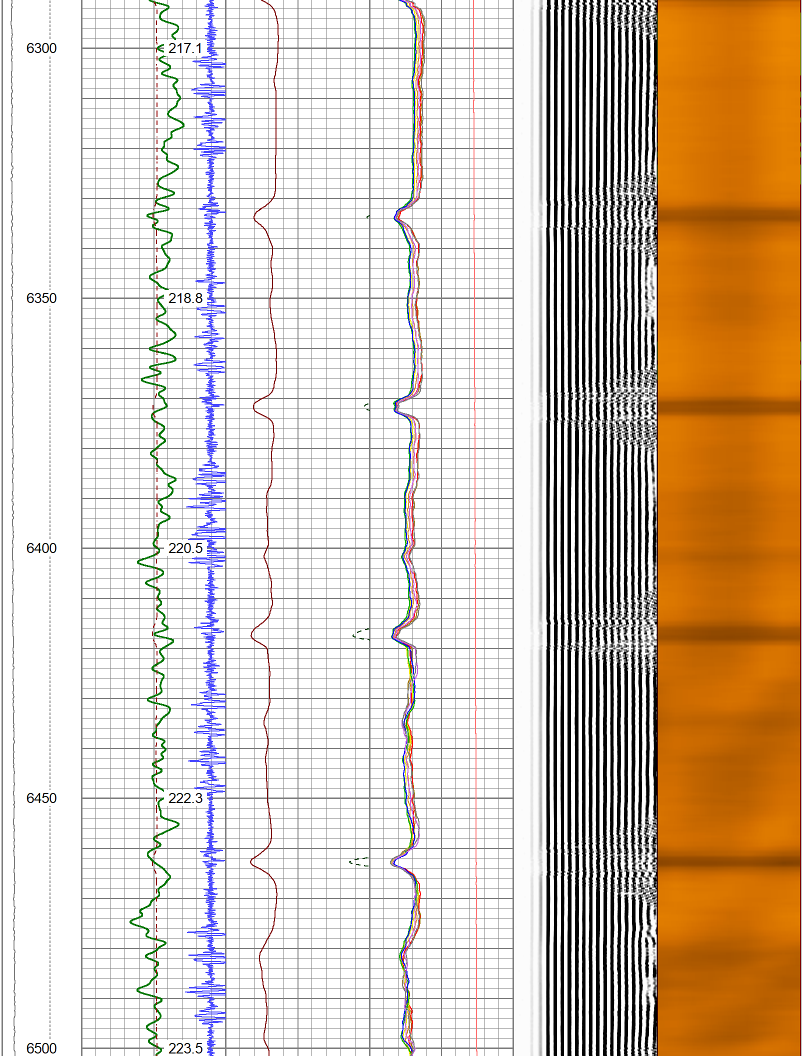


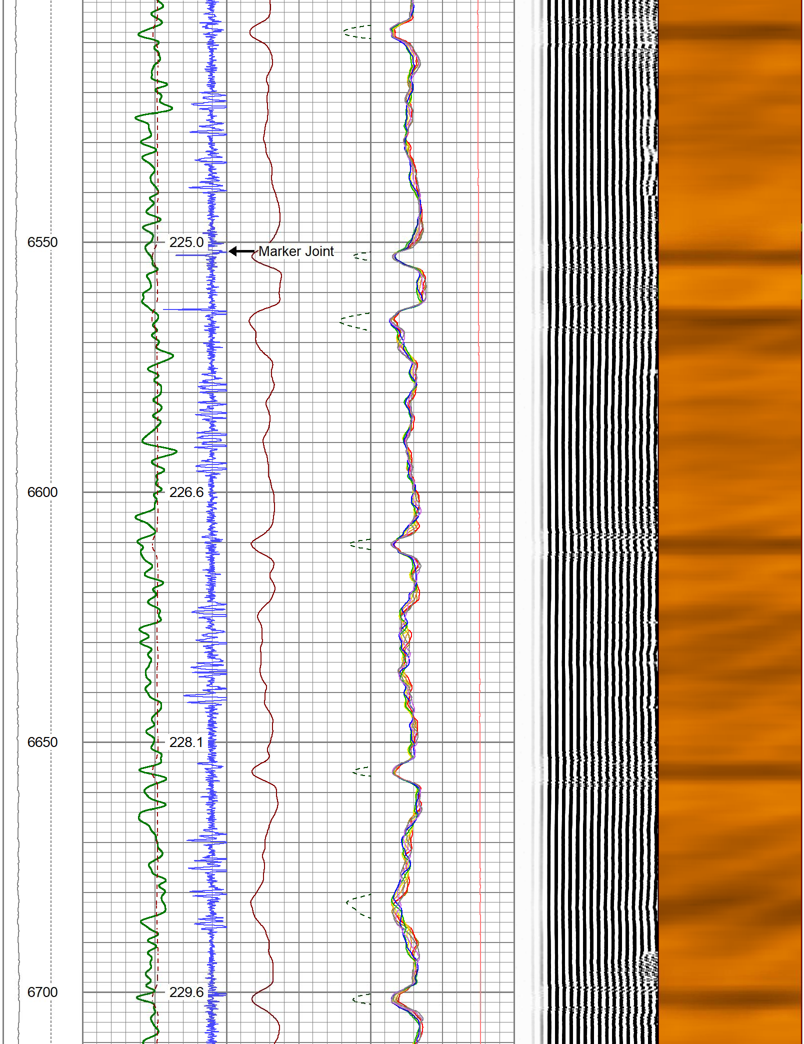


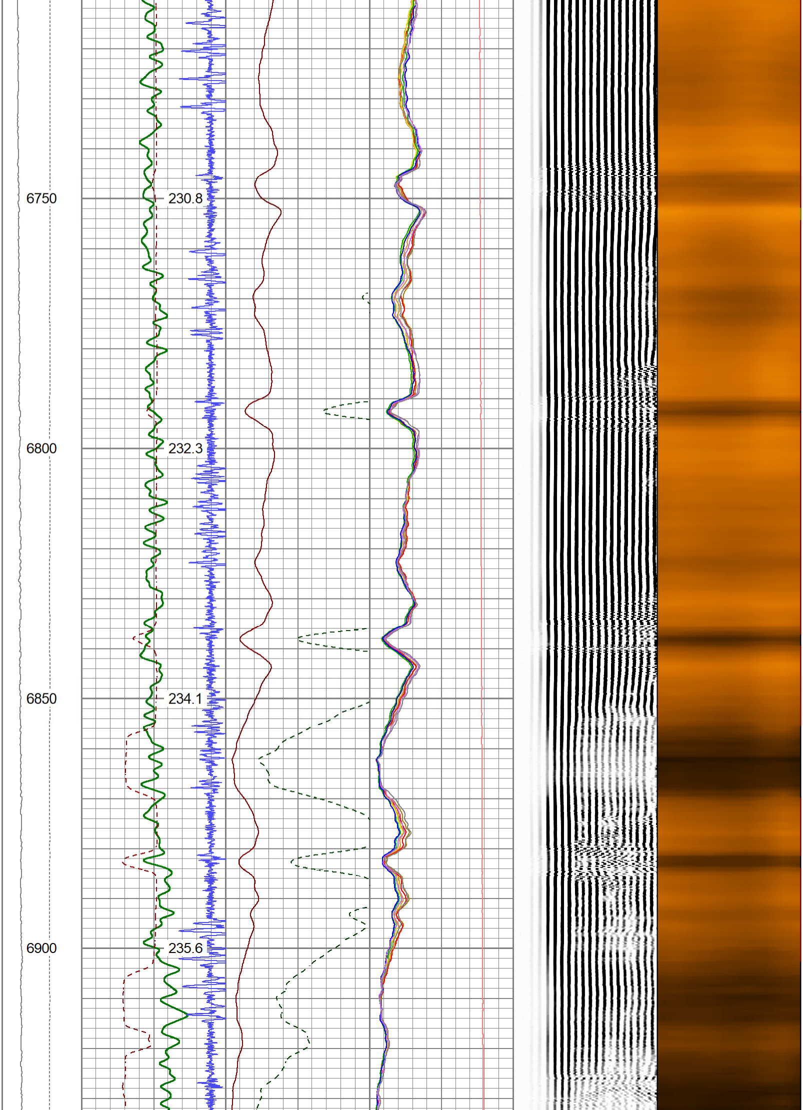


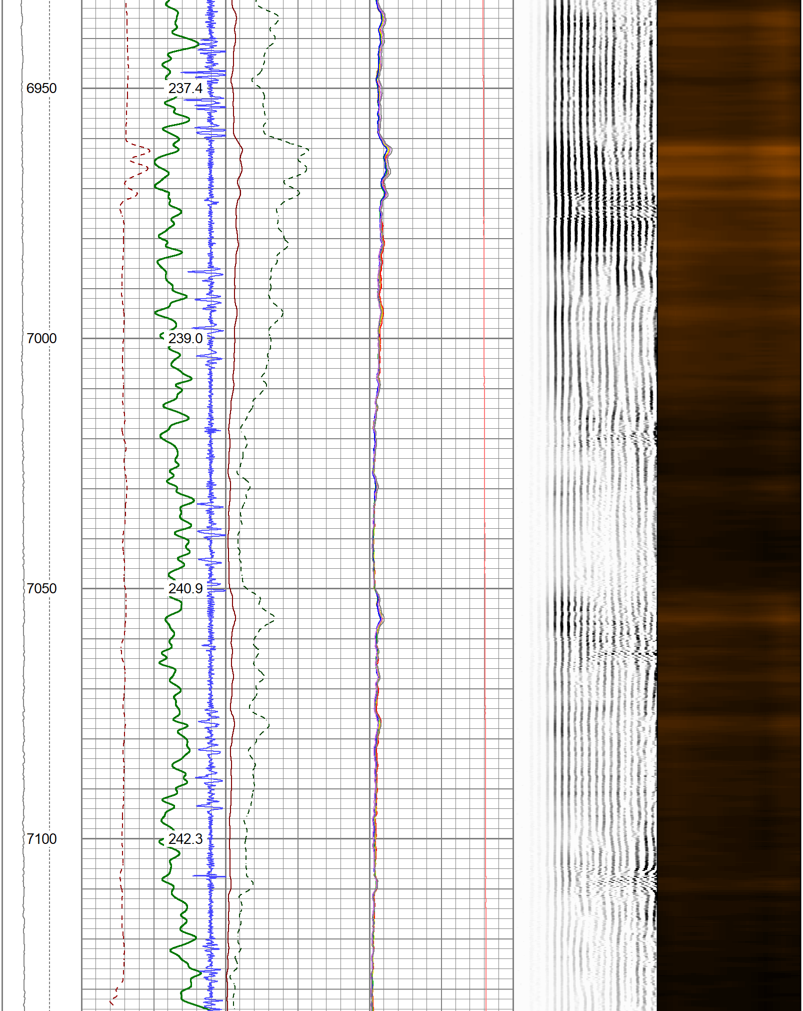


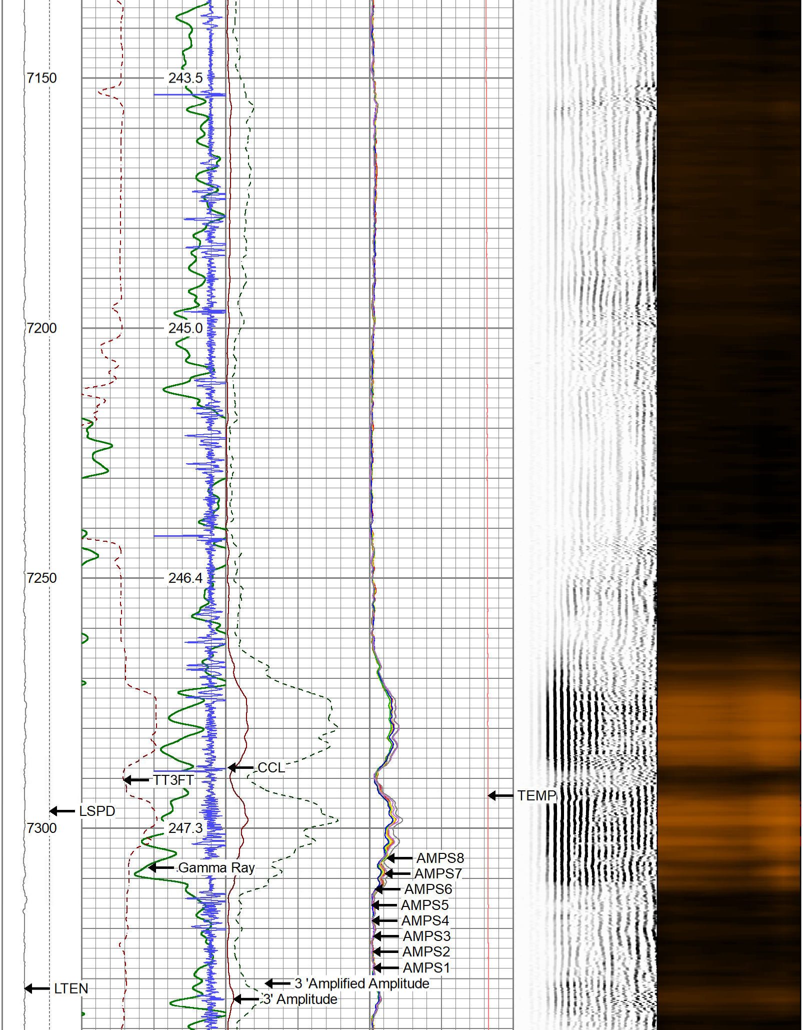


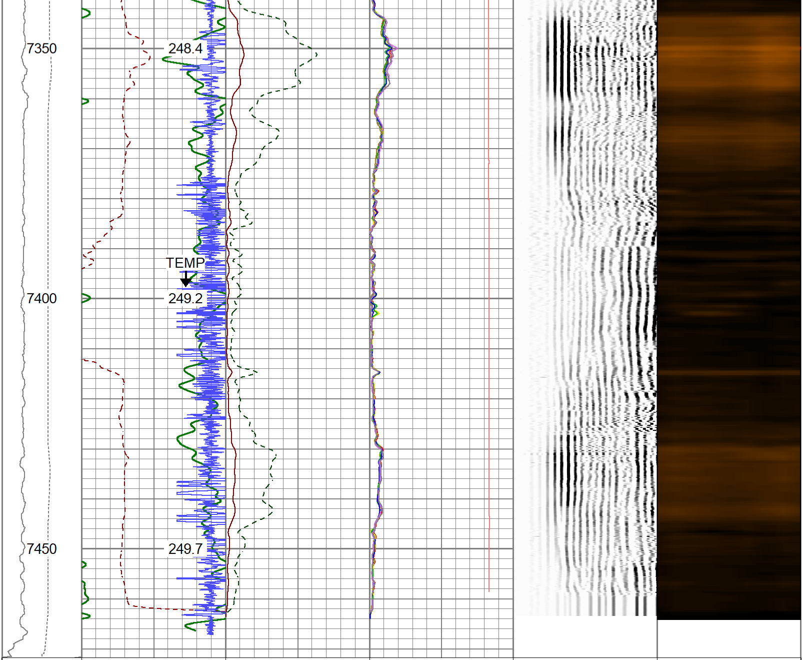












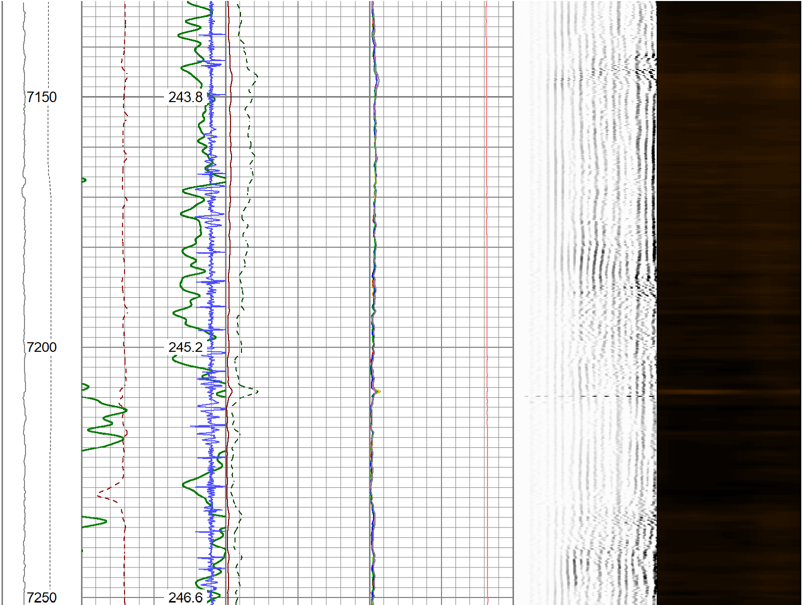
LTEN	Gamma Ray	3' Amplitude	0 AMPS1 150	WVF5FT	SECTORS
0 (lb 1000	0 (GAPI) 200	0 (mV) 100	0 AMPS2 150	200 (usec) 1200	0 90
LSPD	TT3FT	3 'Amplified Amplitude	0 AMPS3 150	(V)	
(ft/min)	380 (usec) 180	0 (mV) 20	0 AMPS4 150		
500 -500	CCL		0 AMPS5 150		
	TEMP		0 AMPS6 150		
	(degF)		0 AMPS7 150		
			0 AMPS8 150		
			0 TEMP (degF) 300		

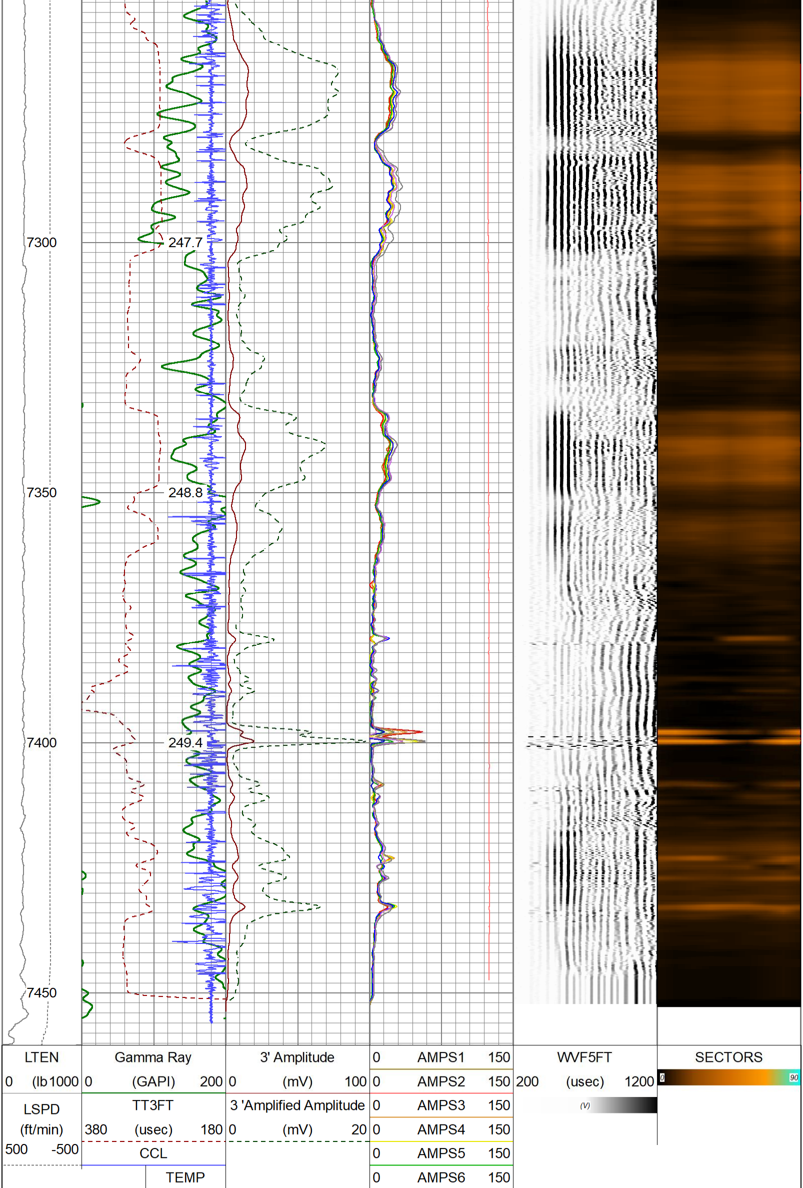
Repeat Pass

Database File	pdc_stugart_13na_rcbl.db
Dataset Pathname	Repeat
Presentation Format	rbl_all_8_2020_t
Dataset Creation	Fri Mar 03 15:11:07 2023
Charted by	Depth in Feet scaled 1:240

LTEN	Gamma Ray	3' Amplitude	AMPS1	WVF5FT	SECTORS
0 (lb 1000	0 (GAPI) 200	0 (mV) 100	0 AMPS2 150	200 (usec) 1200	0 90
LSPD (ft/min)	TT3FT	3 'Amplified Amplitude	0 AMPS3 150	(V)	
500 -500	380 (usec) 180	0 (mV) 20	0 AMPS4 150		
	CCL		0 AMPS5 150		
	TEMP (degF)		0 AMPS6 150		
			0 AMPS7 150		
			0 AMPS8 150		
			0 TEMP (degF) 300		

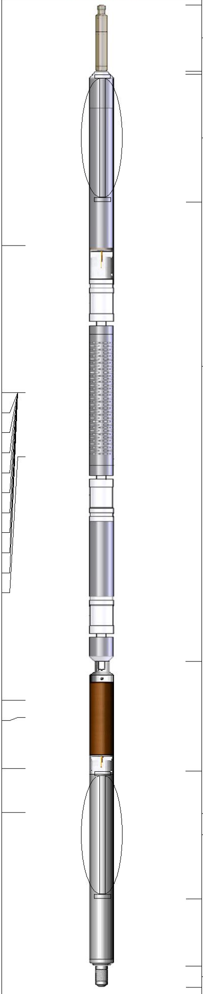
Note: AMPS1 scale is 0 AMPS1 150.





(degF)

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

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
			CENT-tekco	2.00	4.50	3.00
TEMP	11.57					
			PROBE-RBT-DIGITAL-RBL-DCT (1411-220) 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					
CCL	4.47					
DCCL	4.21					
GCT_TEMP	3.42					
GR	2.72		PROBE-GR/CCL-DIGITAL-275 Probe GCT (120918) Probe 2 3/4" Gamma Ray/Temp/CCL 6 Pin	4.75	2.75	60.00
			CENT-tekco	2.00	4.50	3.00
			Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00

Dataset:	pdc_stugart_13na_rcbl.db: field/well/run1/Main.1
Total length:	15.32 ft
Total weight:	177.00 lb
O.D.:	4.50 in

Calibration Report

Database File	pdc_stugart_13na_rcbl.db
Dataset Pathname	Main.2
Dataset Creation	Sun Mar 05 15:18:50 2023

Gamma Ray Calibration Report

Serial Number:	120918	
Tool Model:	275 Probe GCT	
Performed:	(Not Performed)	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.0000	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	1411-220	
Tool Model:	RBL-DCT	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	32.058	ft

Master Calibration, performed (Derived):

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.005	0.732	0.000	71.921	98.818	-0.455
CAL	0.754	0.754				
5'	0.004	0.745	0.000	71.921	96.992	-0.368
SUM						
S1	0.002	0.654	0.000	100.000	153.370	-0.299
S2	-0.006	0.713	0.000	100.000	139.198	0.810
S3	-0.006	0.778	0.000	100.000	127.588	0.720
S4	-0.007	0.825	0.000	100.000	120.196	0.830
S5	-0.005	0.813	0.000	100.000	122.240	0.604
S6	-0.002	0.808	0.000	100.000	123.508	0.234
S7	0.013	0.710	0.000	100.000	143.456	-1.895
S8	0.010	0.729	0.000	100.000	139.036	-1.379

Air Zero Calibration, performed Fri Mar 3 06:12:13 2023:

	Raw (v)	Calibrated (v)	Results
	Zero	Zero	Offset
3'	0.003	0.000	0.000
5'	0.011	0.000	-0.001
SUM			
S1	-0.005	0.000	-0.000
S2	0.002	0.000	-0.000
S3	0.001	0.000	0.000
S4	0.002	0.000	0.000
S5	0.002	0.000	-0.001
S6	0.002	0.000	-0.001
S7	0.002	0.000	0.000
S8	0.002	0.000	-0.000

Temperature Calibration Report

Serial Number: 1411-220
Tool Model: RBL-DCT
Performed: Fri Mar 3 12:46:04 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 13NA
Field	Wattenberg
County	Weld
State	Colorado