Radial Cement Bond Log

Company	Occidental Petroleum Corp.
Well	Land Fed 29-10HZ
Field	Wattenberg
County	Weld
State	Colorado
Country	USA

Company Occidental Petroleum Corp.
Well Land Fed 29-10HZ
Field Wattenberg
County Weld
State Colorado **Country** USA

Location: API # : 0512352155
SHL: 2382' FSL & 1918' FEL NWSE
Lat/Long: 40.108415 / -104.798534
SEC 29 TWP 2N RGE 66W

Other Services
Gauge-Ring

Permanent Datum	GL	Elevation	4912'
Log Measured From	KB 20' above GL		
Drilling Measured From	KB		

Elevation
K.B. 4932'
D.F. N/A
G.L. 4912'

Date	7 September 2023		
Run Number	One		
Depth Driller	18684'		
Depth Logger	7700'		
Bottom Logged Interval	7698'		
Top Log Interval	Surface		
Open Hole Size	7.875"		
Type Fluid	Fresh water		
Density / Viscosity	8.3#		
Max. Recorded Temp.	238* F		
Estimated Cement Top	See log		
Time Well Ready	ROA		
Time Logger on Bottom	14:15		
Equipment Number	8048		
Location	Windsor, CO		
Recorded By	Schuman		
Witnessed By	Mr DJ Anderson		

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

Casing Record	Size	Wgt/Ft	Top	Bottom
Surface String	9.625"	36ppf L-80 8Rd	Surface	2060'
Prot. String				
Production String	5.5"	17ppf P110 ICY LTC	Surface	18670'
Liner				

<<< 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

Correlated to casing tally marker joint at 7577'
Log ran under 2800 PSI surface induced pressure.
Thank you for choosing The Wireline Group!!!

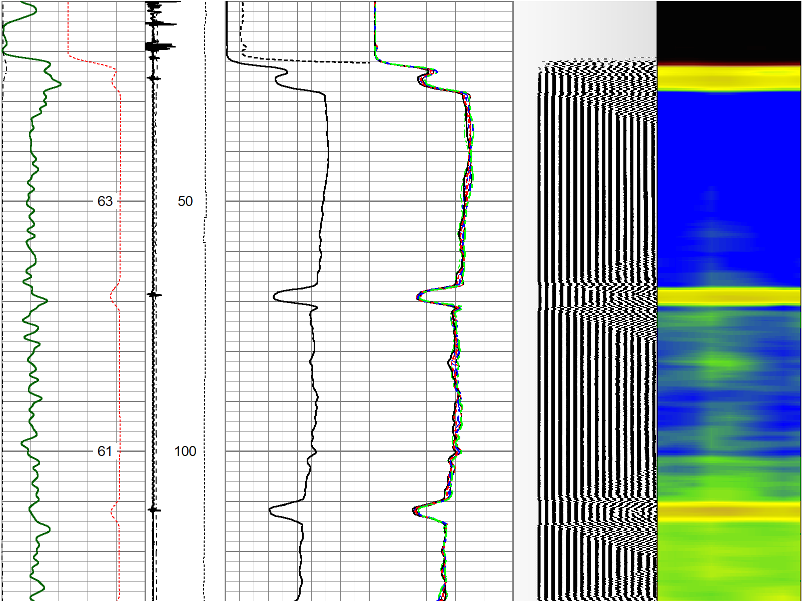
TWG
THE WIRELINE
GROUP

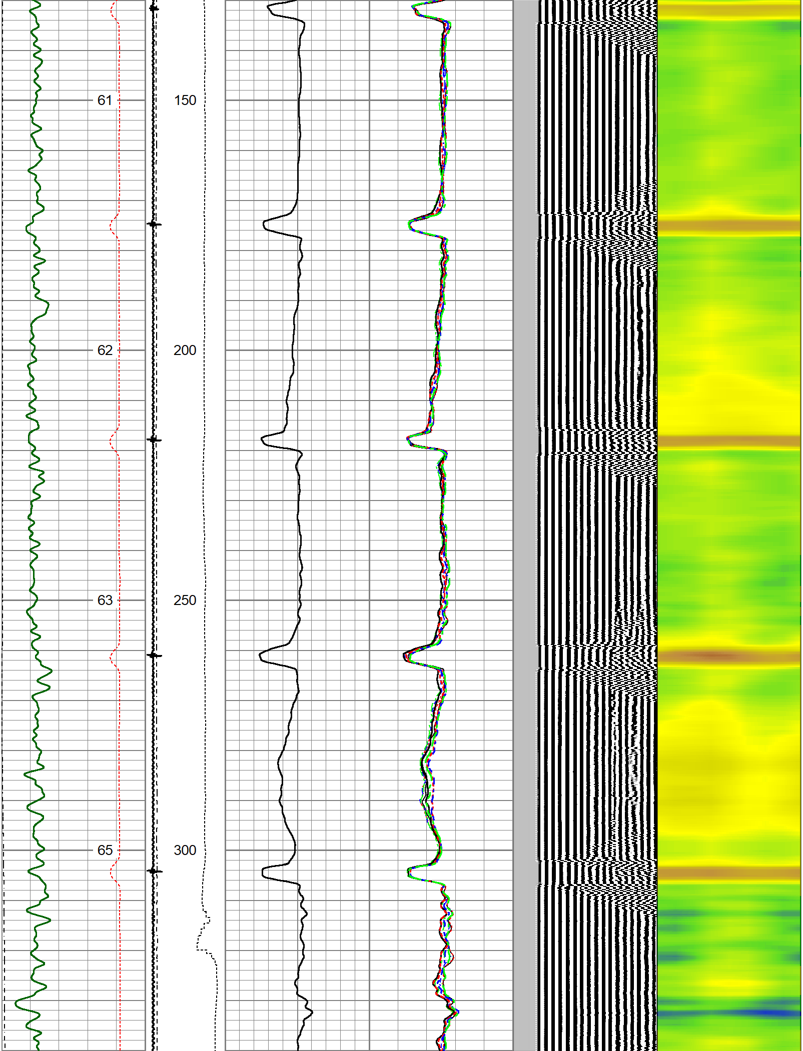
Main Pass

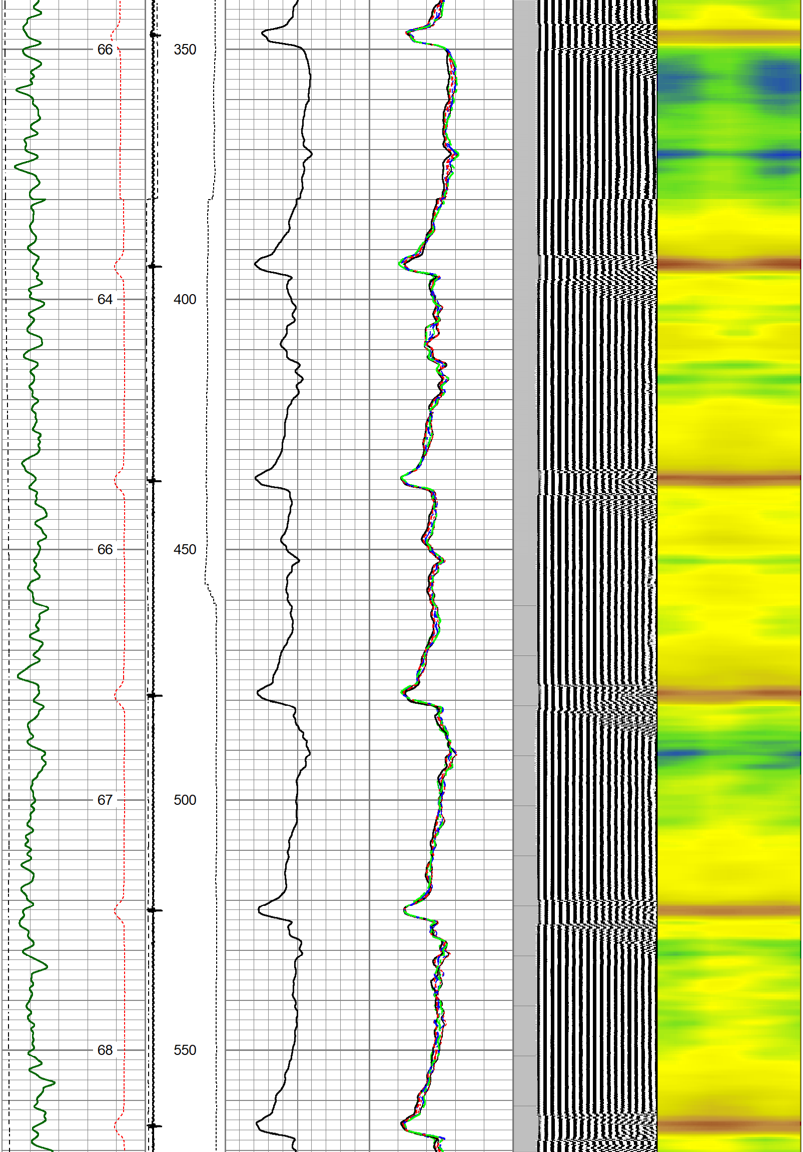
Log ran under 2800 PSI surface induced pressure
5"=100'

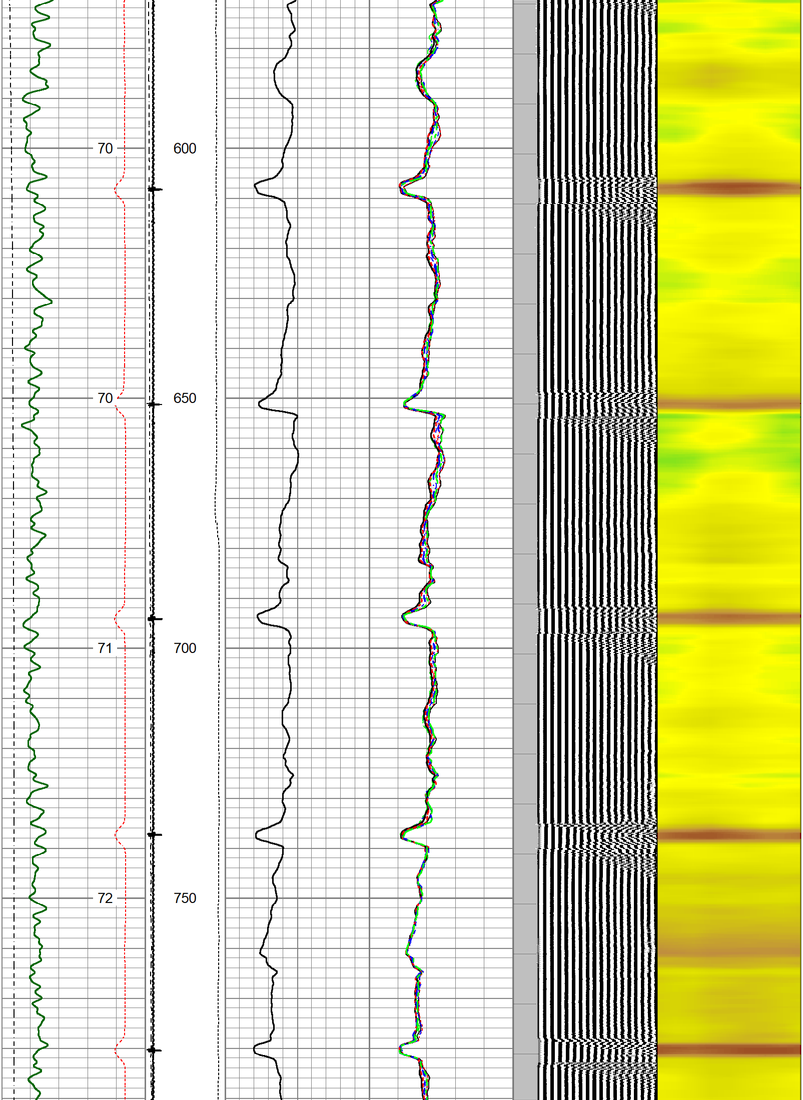
Database File	0512352155_land fed 29-10hz_oxy.db
Dataset Pathname	cbl/main
Presentation Format	rbt-gct8acc
Dataset Creation	Thu Sep 07 16:03:03 2023
Charted by	Depth in Feet scaled 1:240

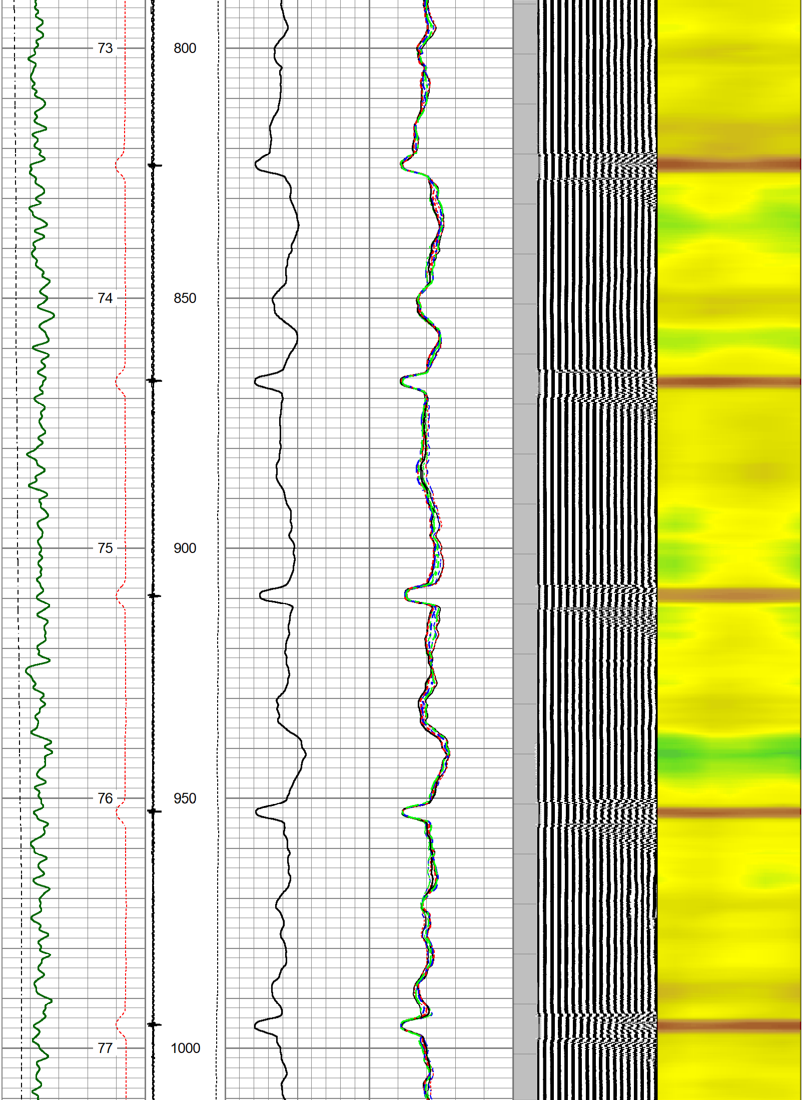
Gamma Ray	LTEN	0 AMP (mV) 100	-5 AMPS1 150	200 VDL (usec) 1200	1 Cement Map 8
0 (GAPI) 200	0 (lb 2500	0 AMPx10 (mV) 10	-5 AMPS2 150		
TT3FT	-1 CCL 9		-5 AMPS3 150		
340 (usec) 240	LSPD		-5 AMPS4 150		
0 Inclination (deg) 90	(ft/min)		-5 AMPS5 150		
TEMP	0 100		-5 AMPS6 150		
(degF)			-5 AMPS7 150		
			-5 AMPS8 150		

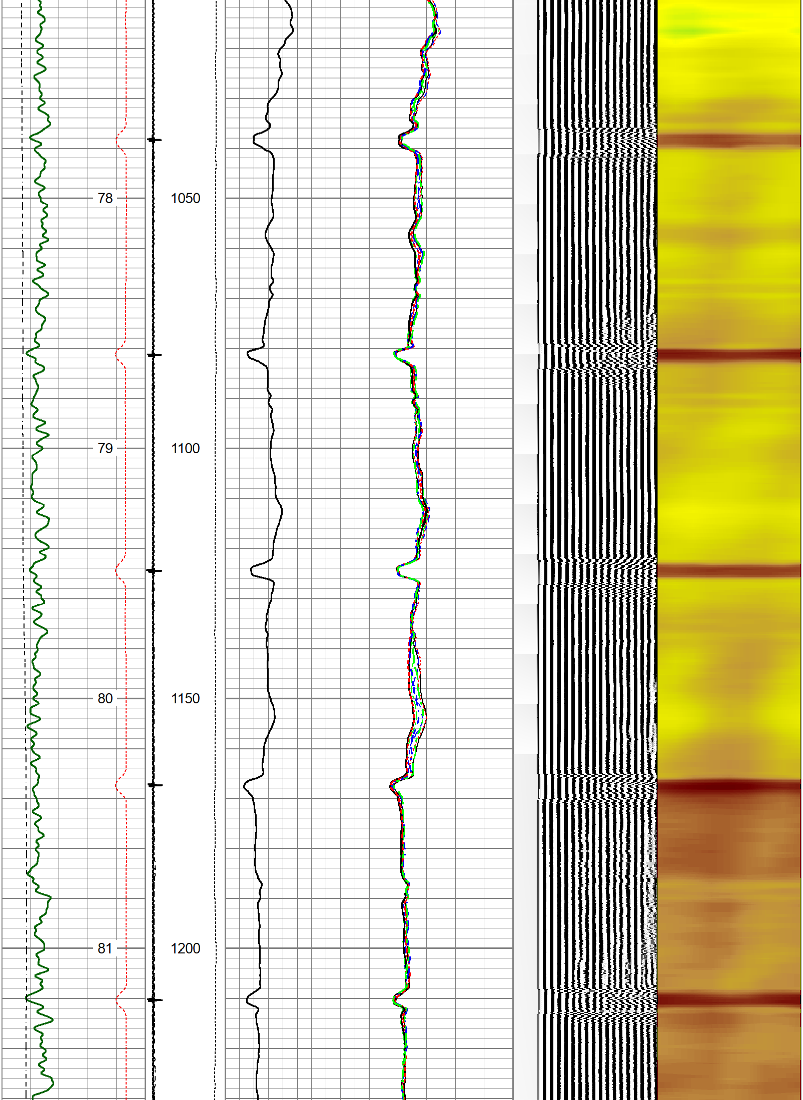


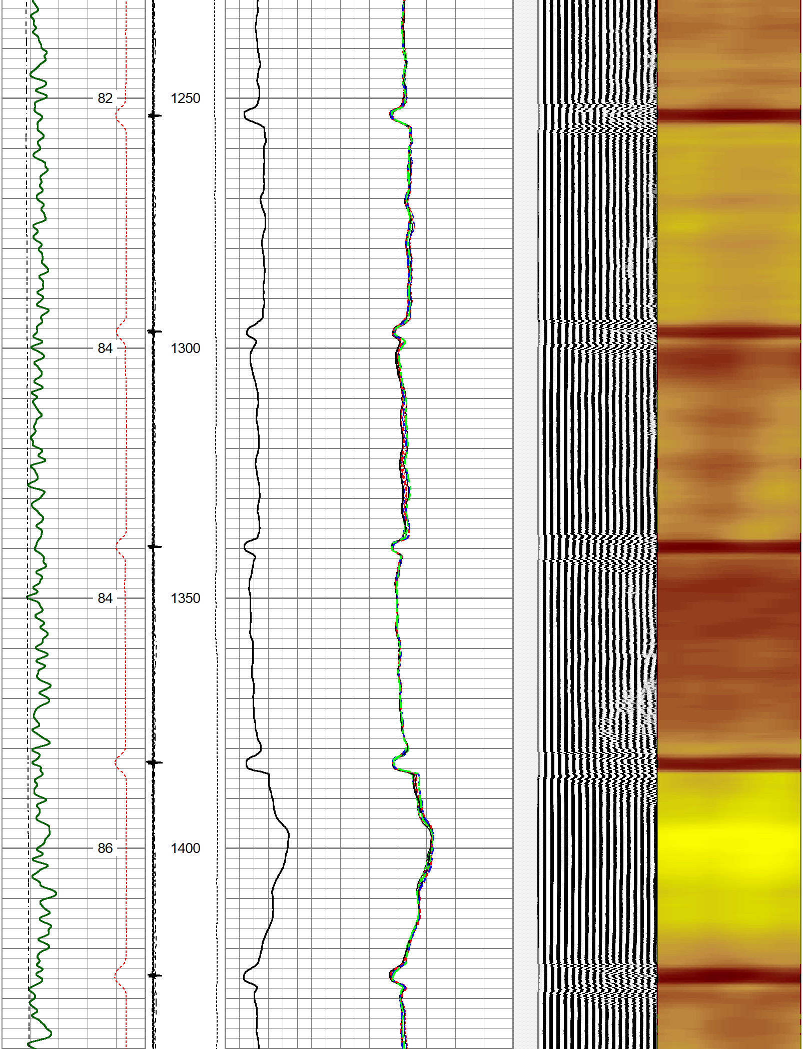


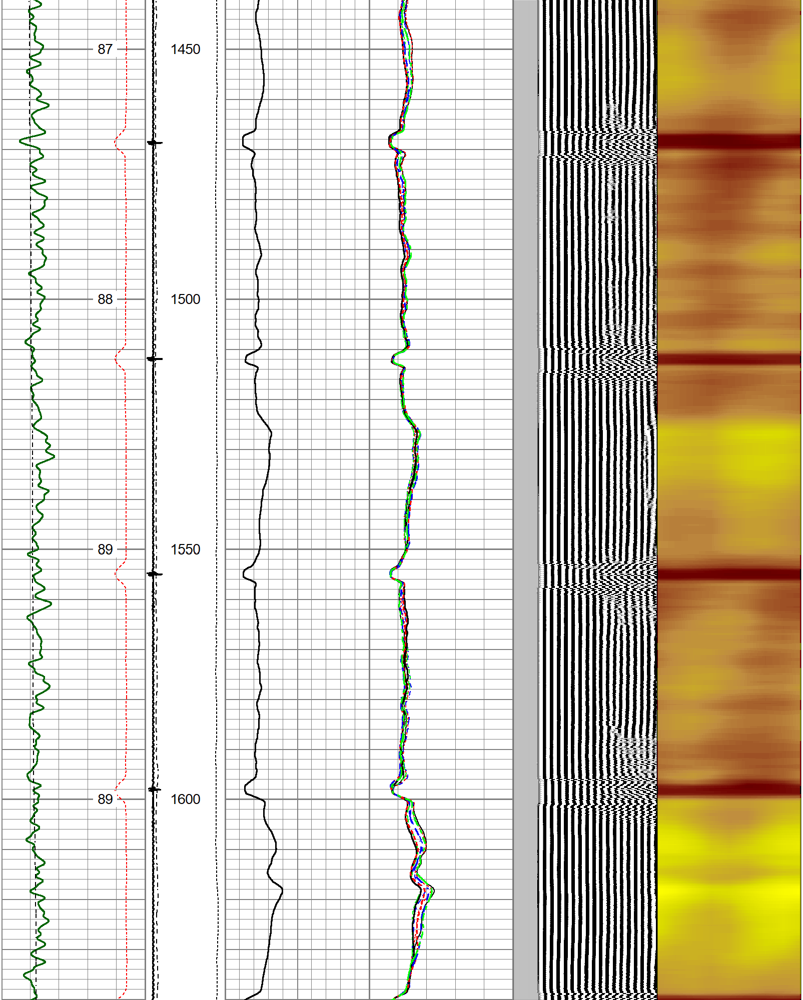


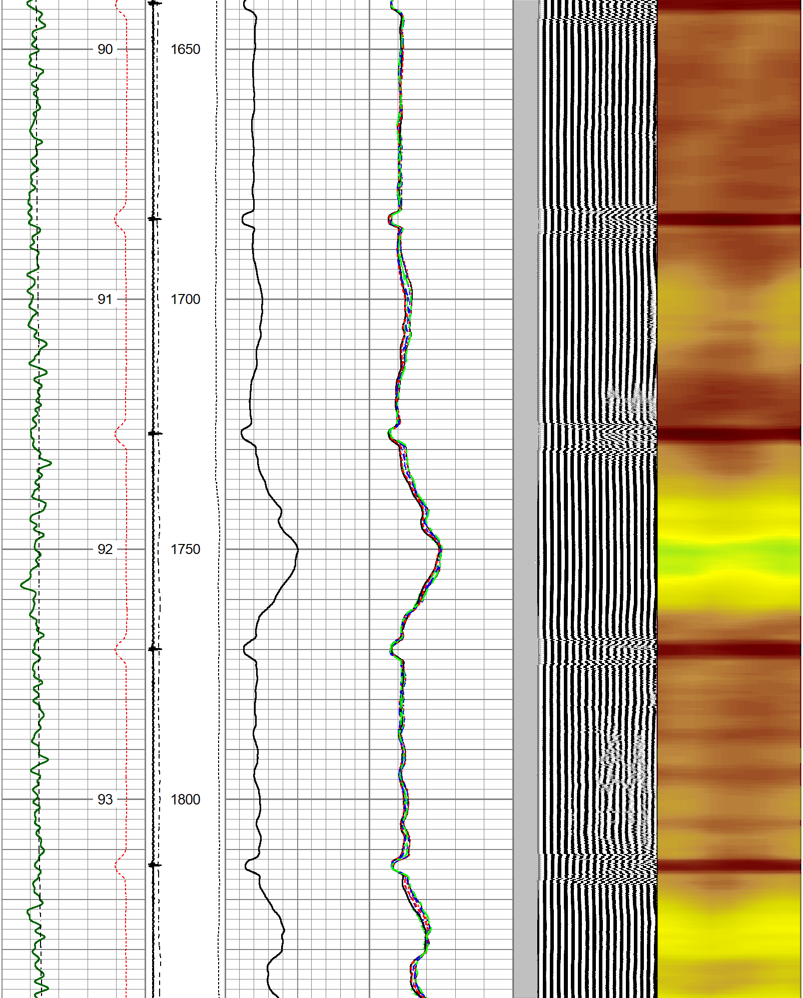


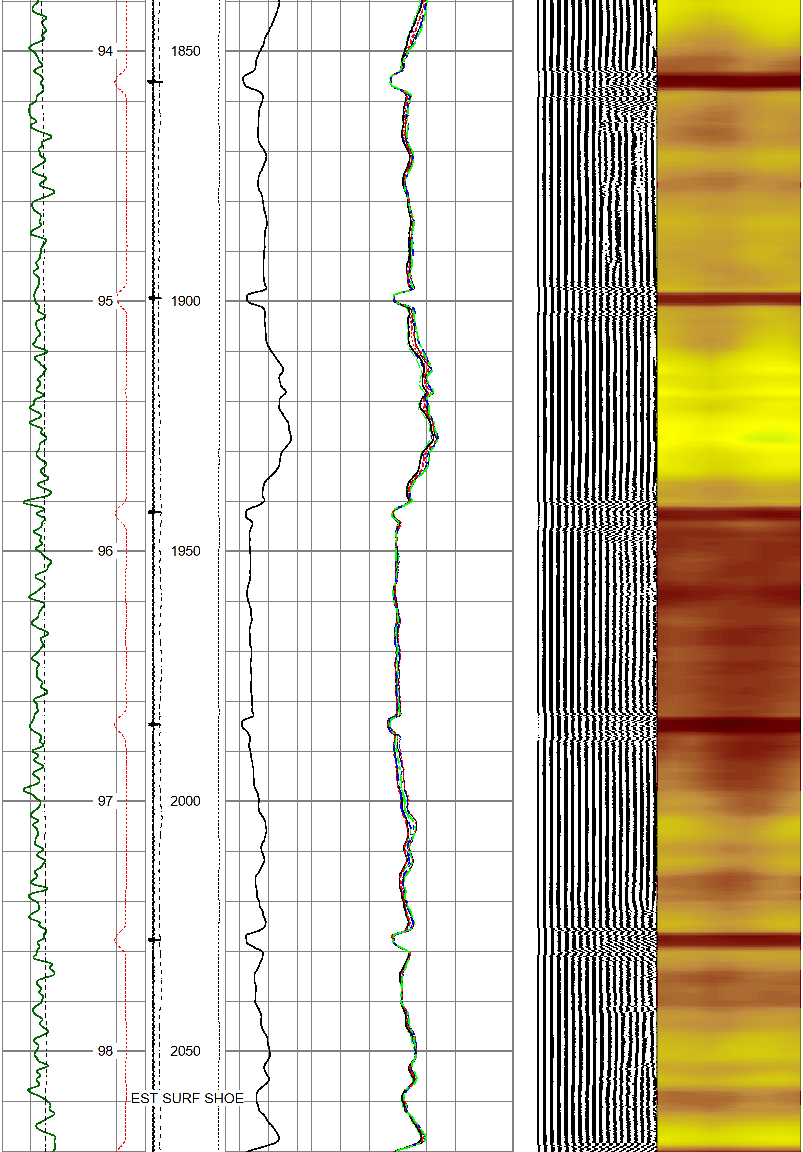


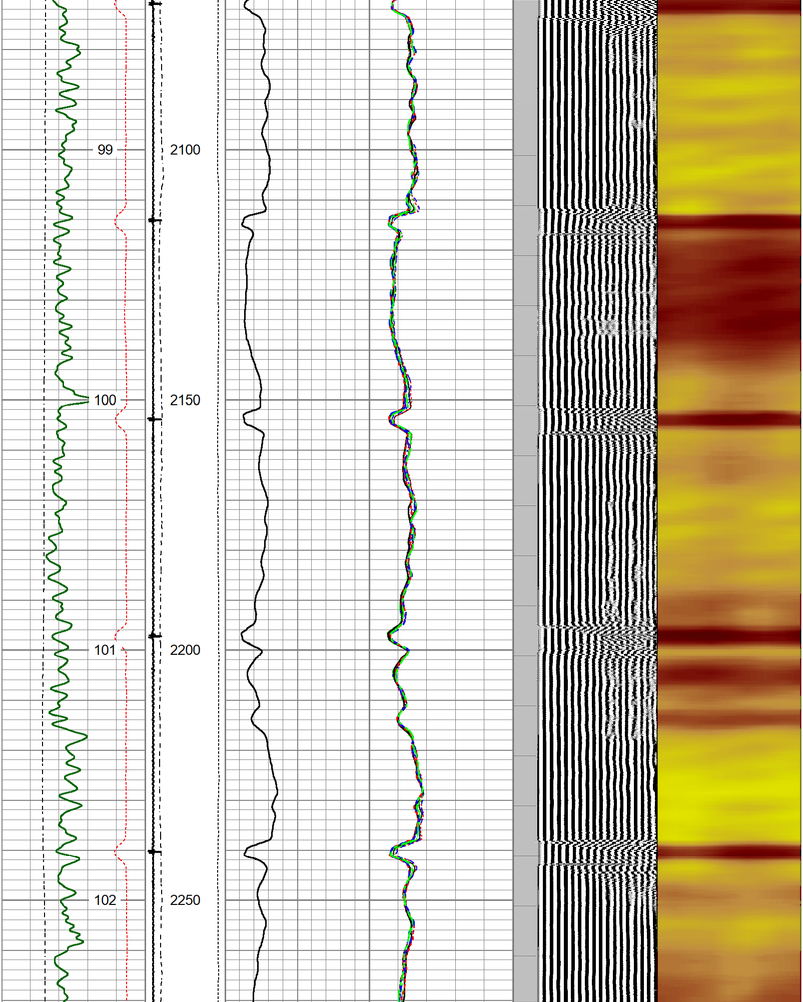


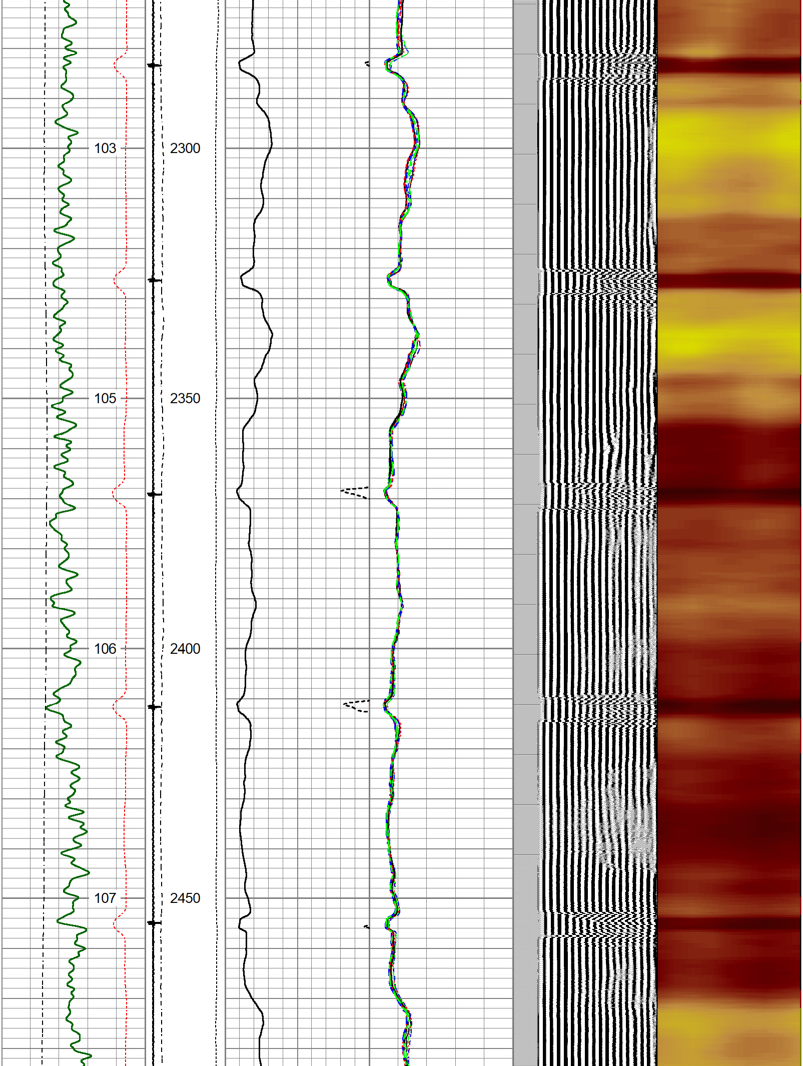


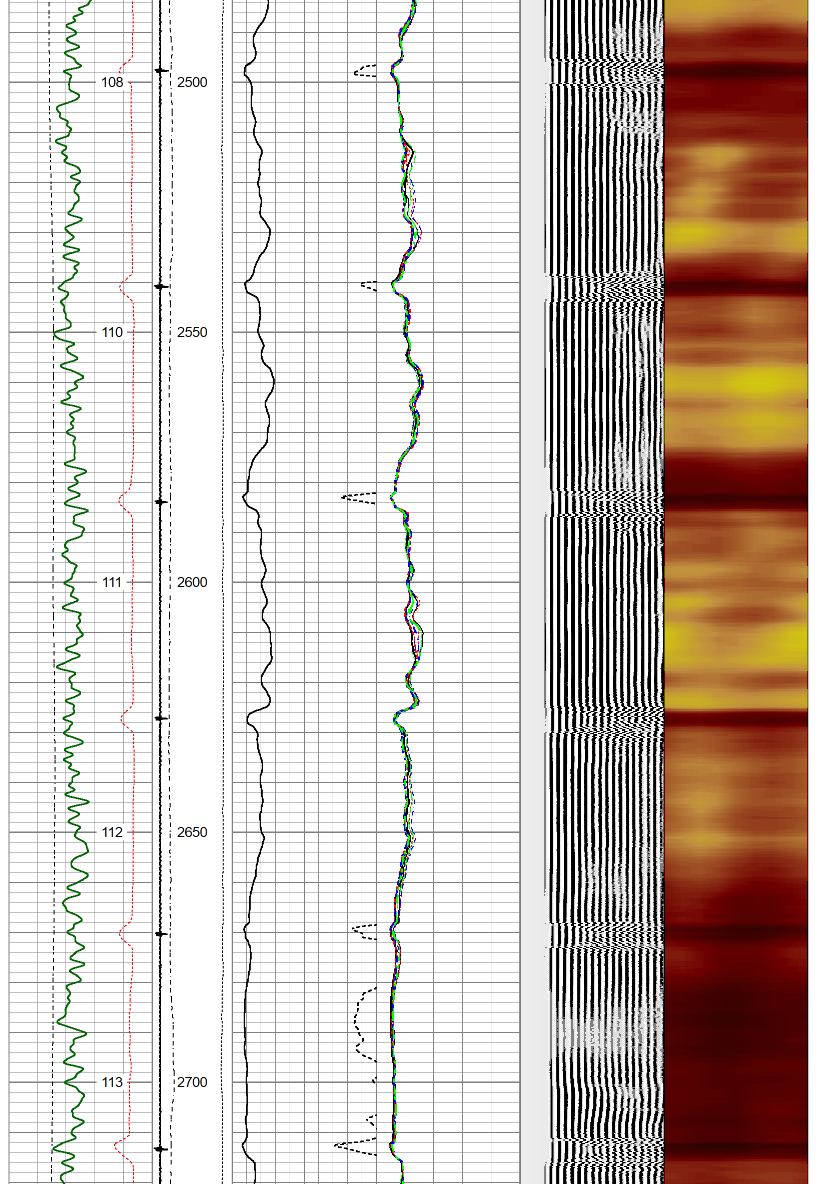


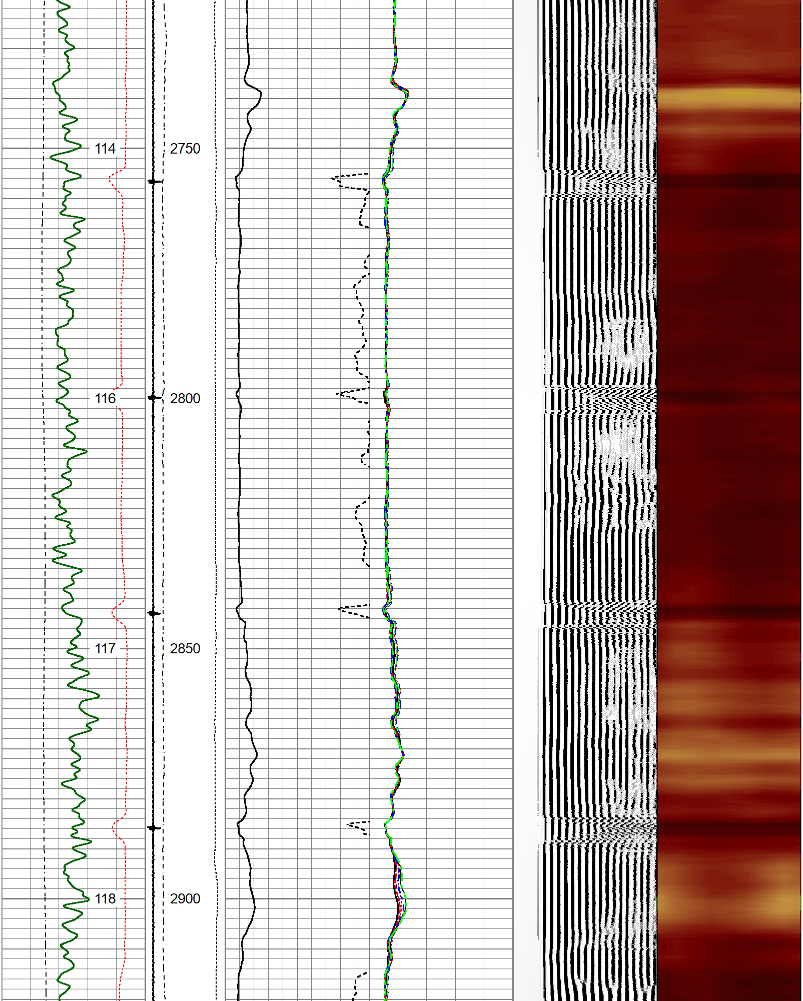


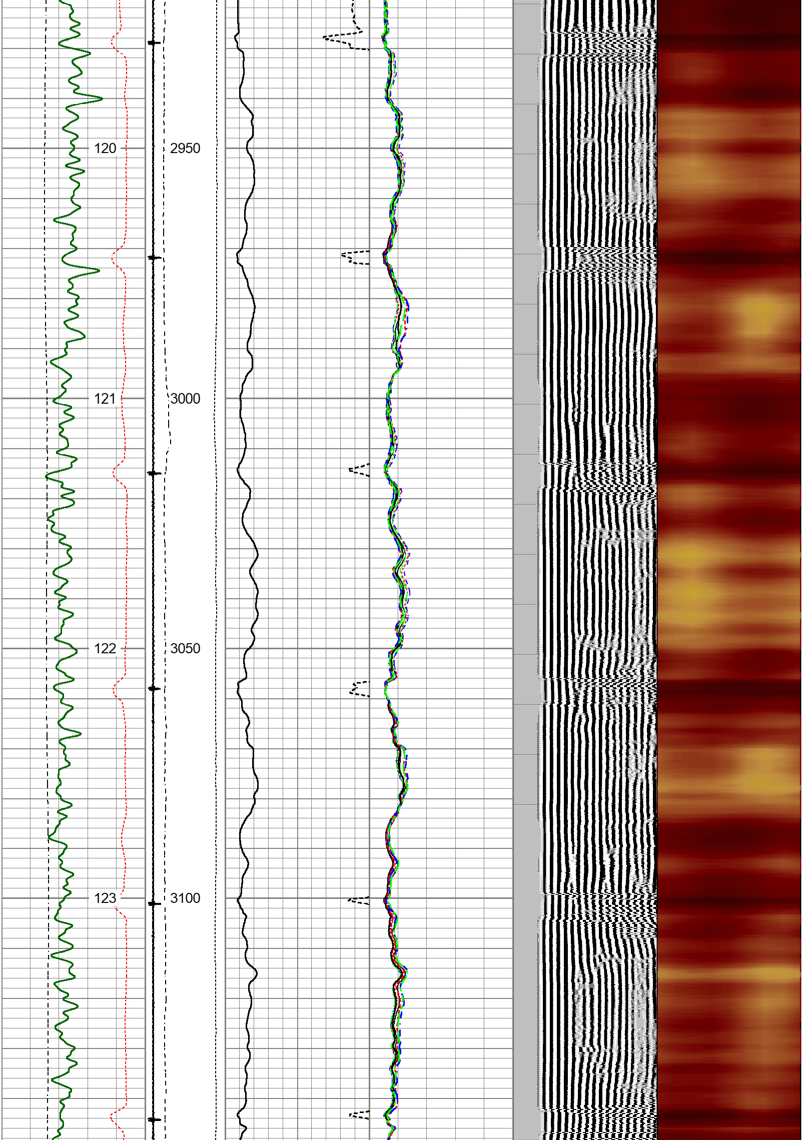


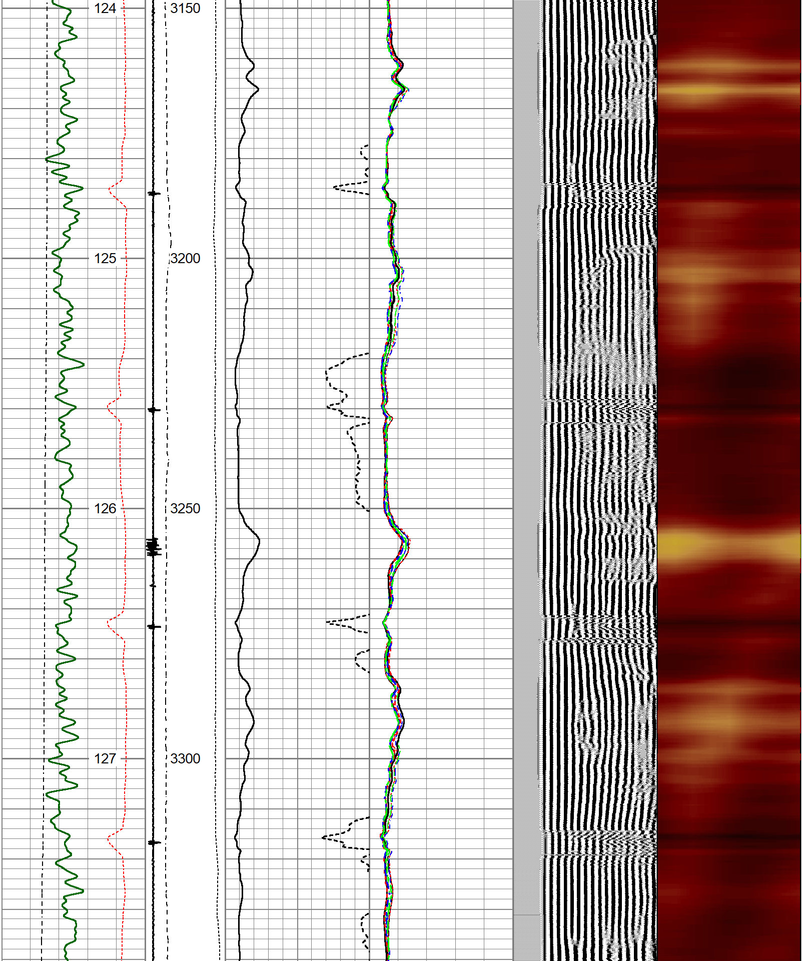


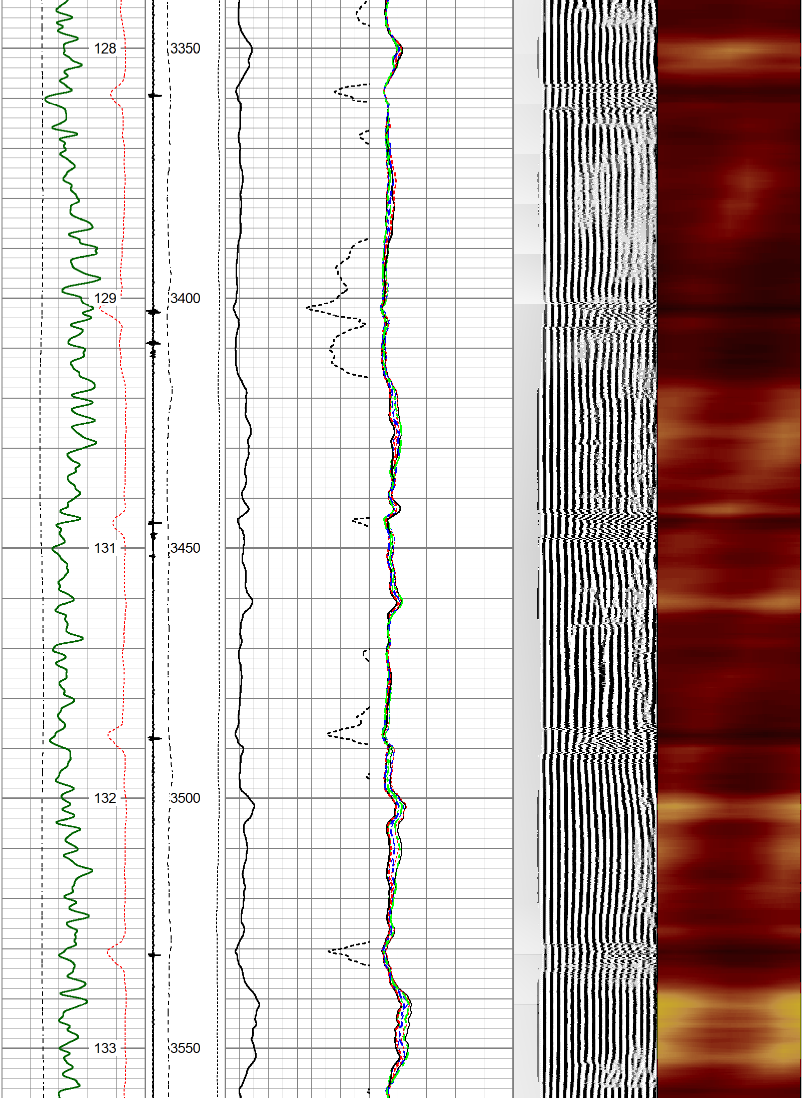


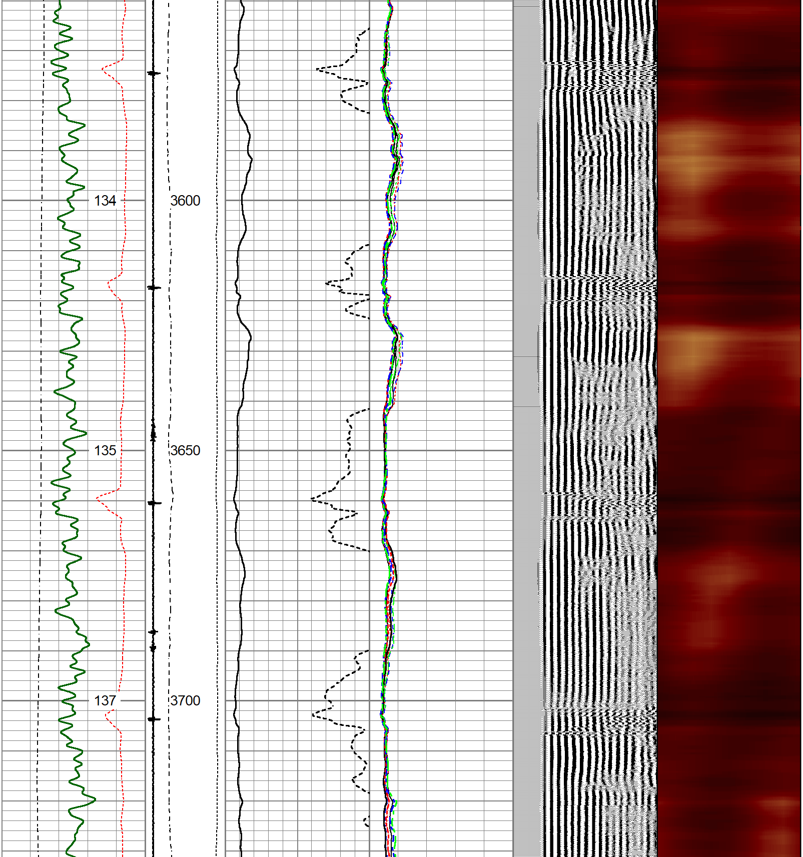


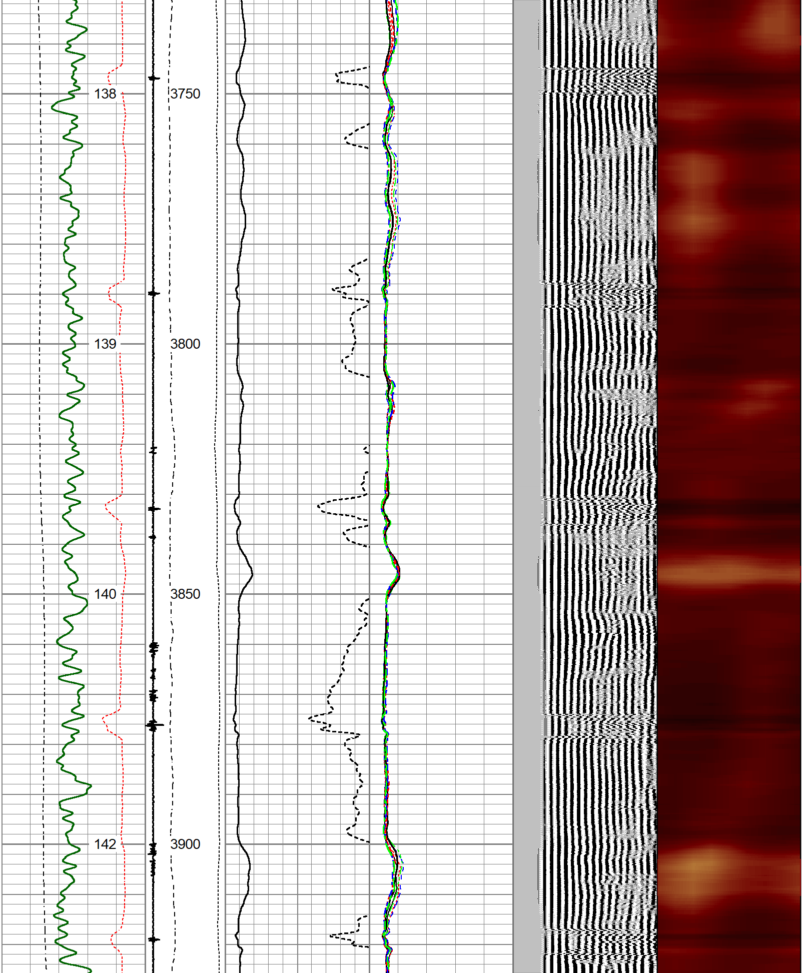


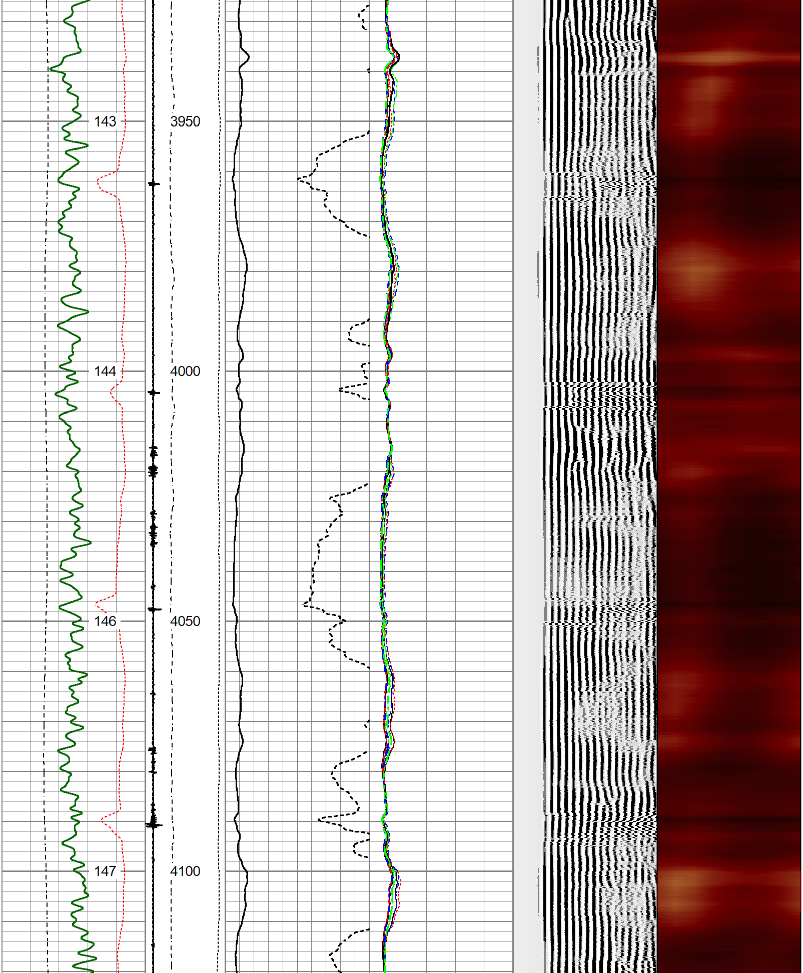


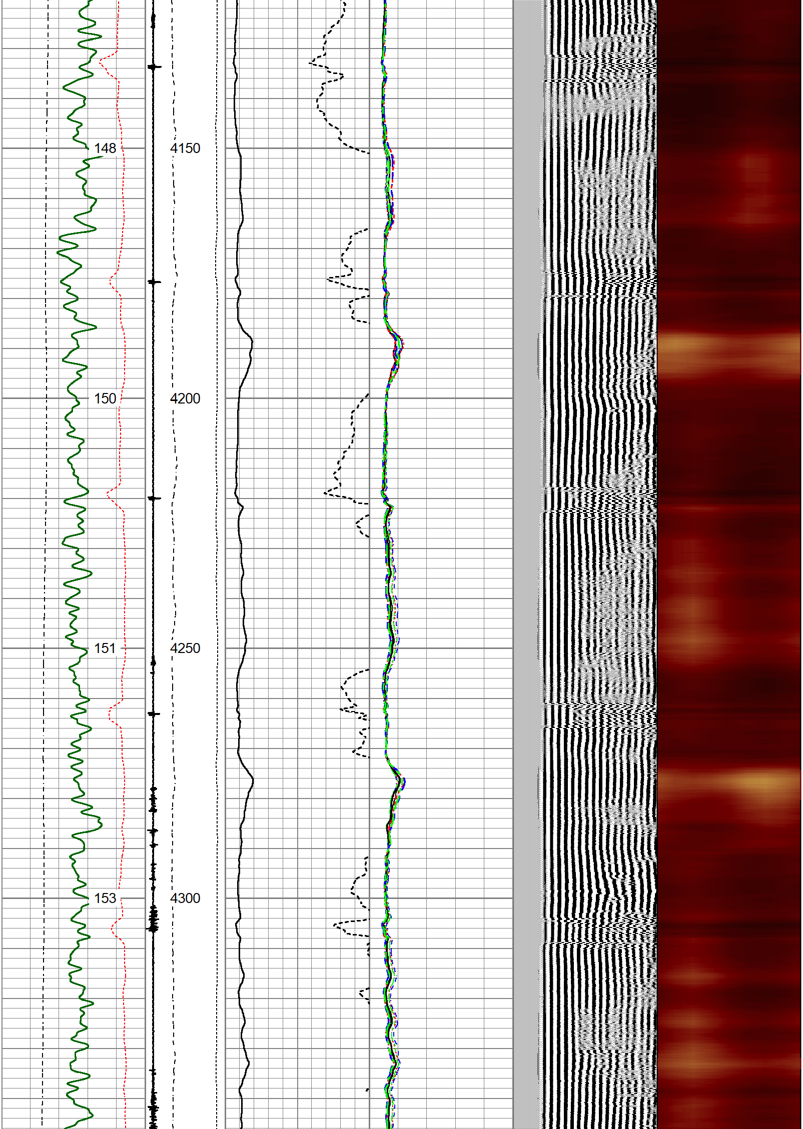


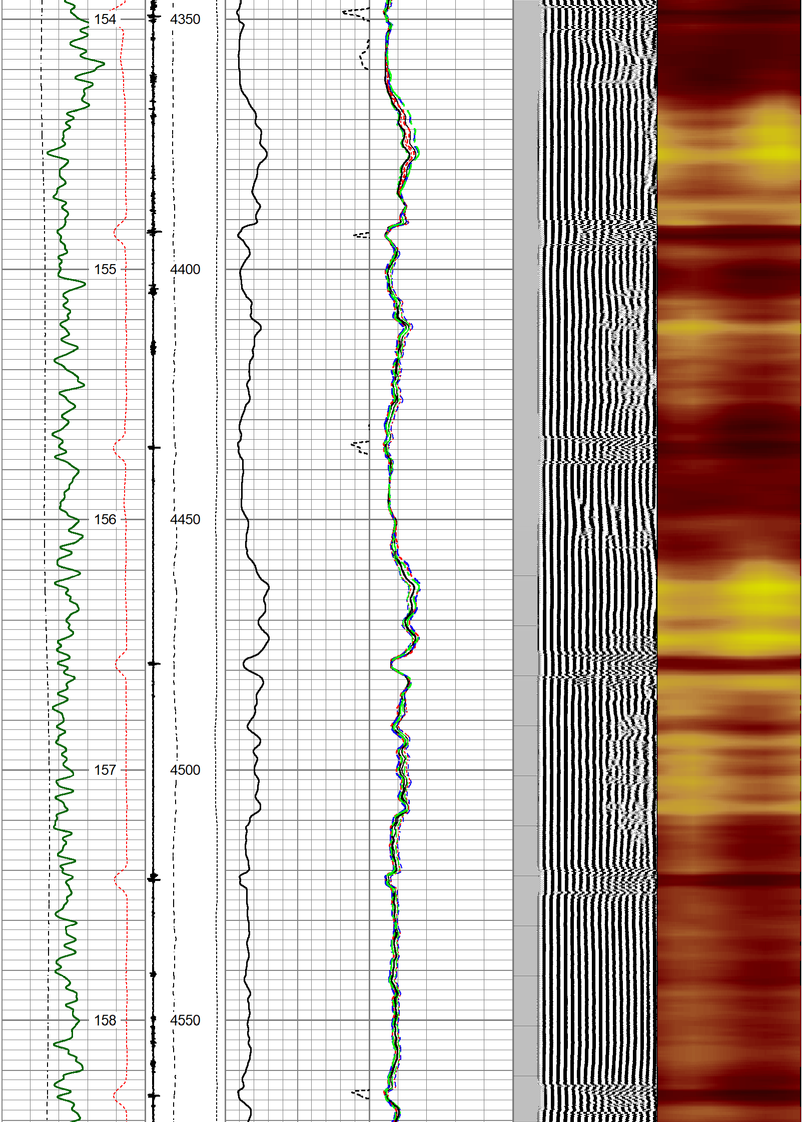


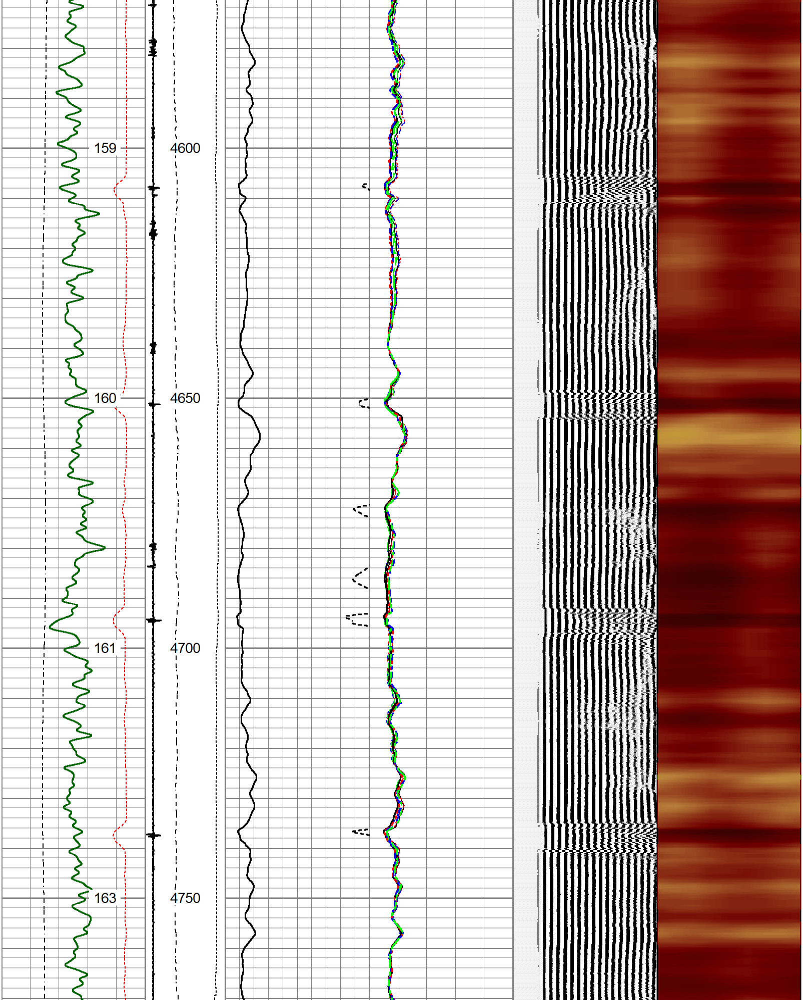


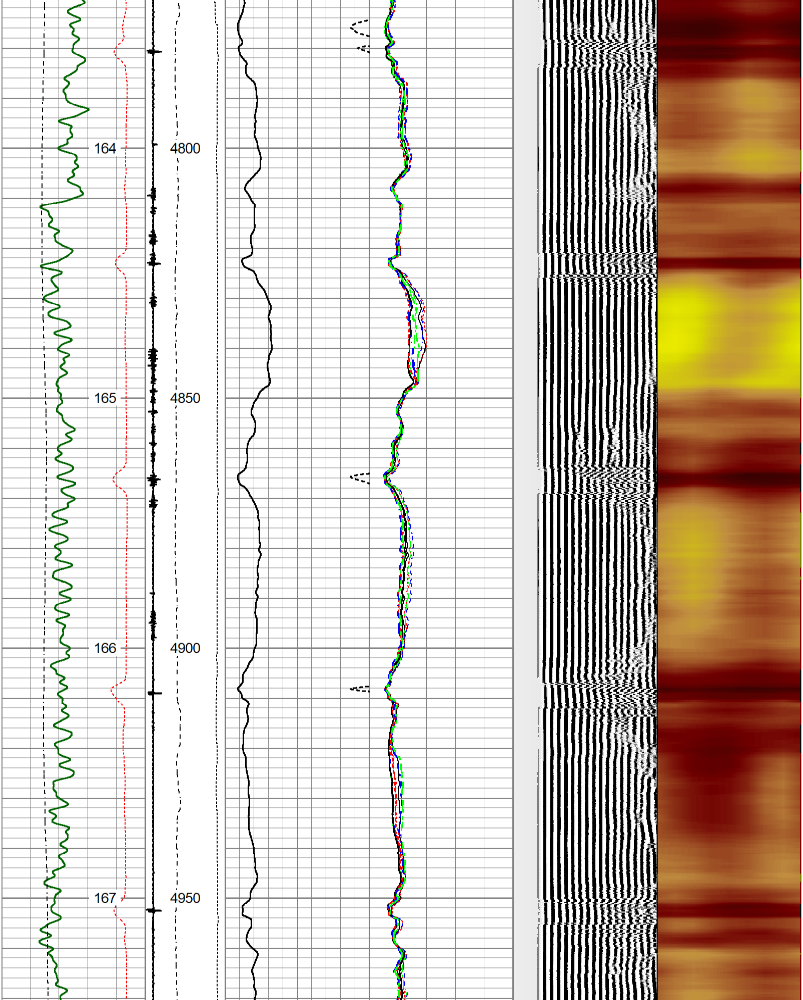

138
3750
139
3800
140
3850
142
3900

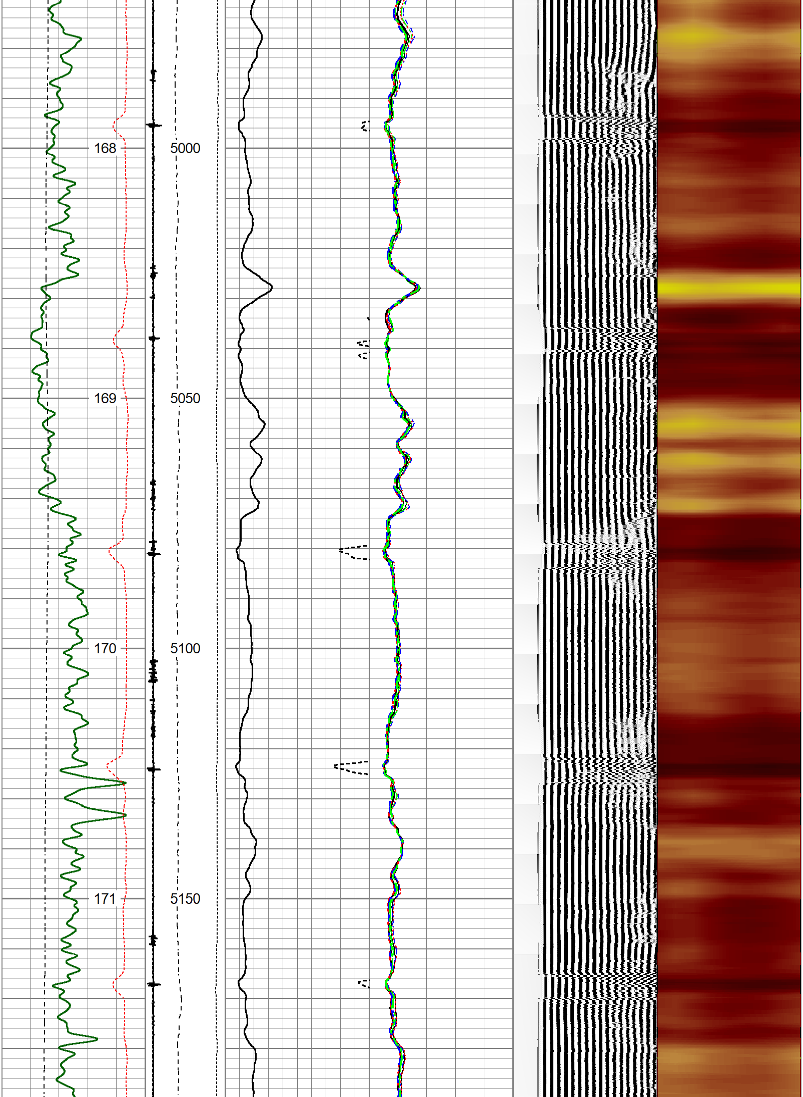

143
3950
144
4000
146
4050
147
4100

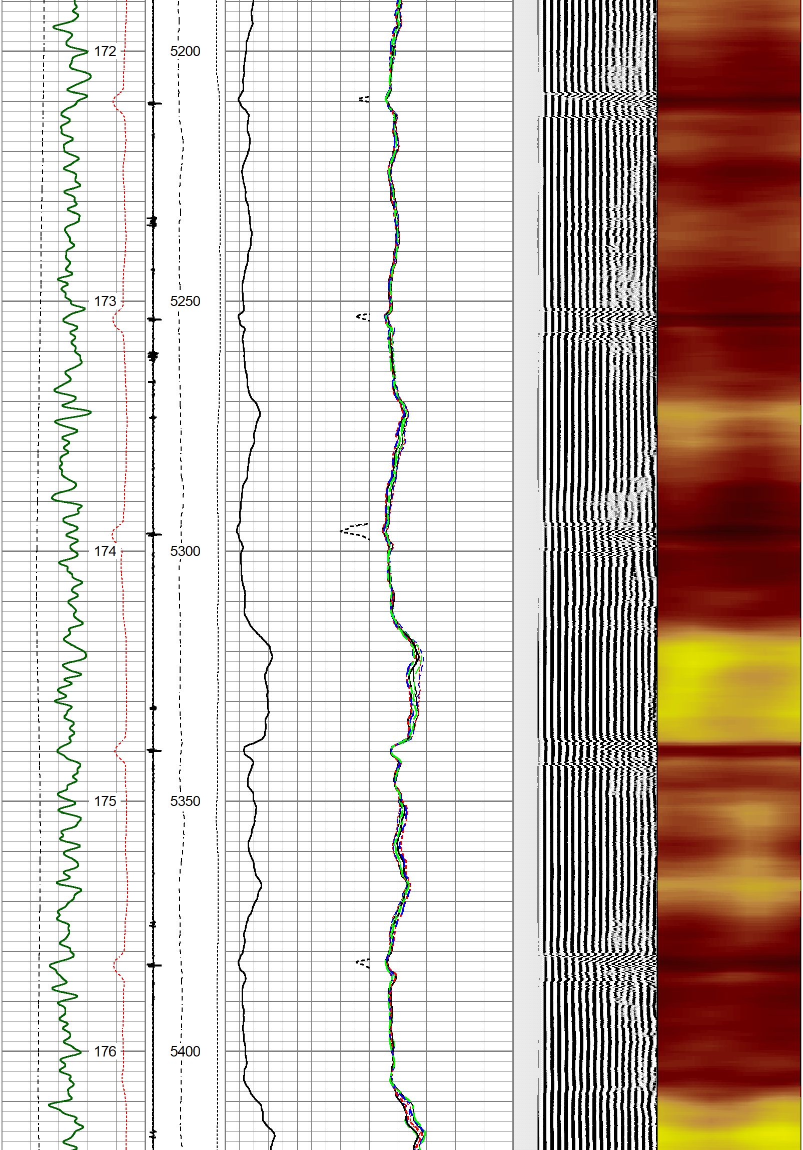

148
4150
150
4200
151
4250
153
4300

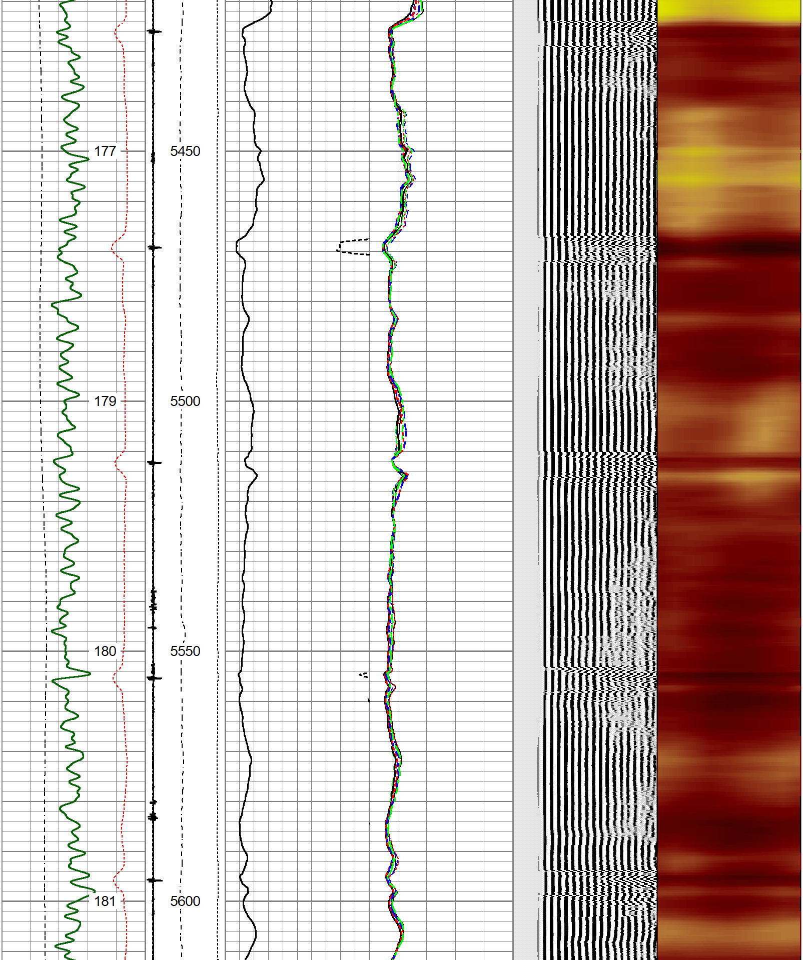

154
4350
155
4400
156
4450
157
4500
158
4550

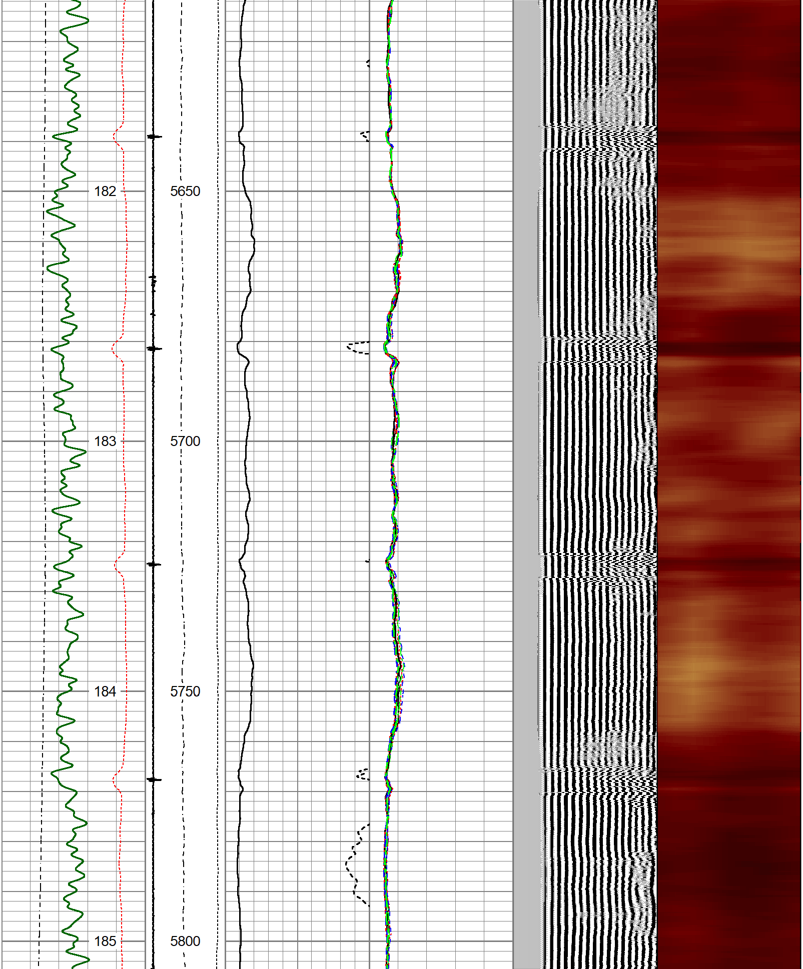

159
4600
160
4650
161
4700
163
4750

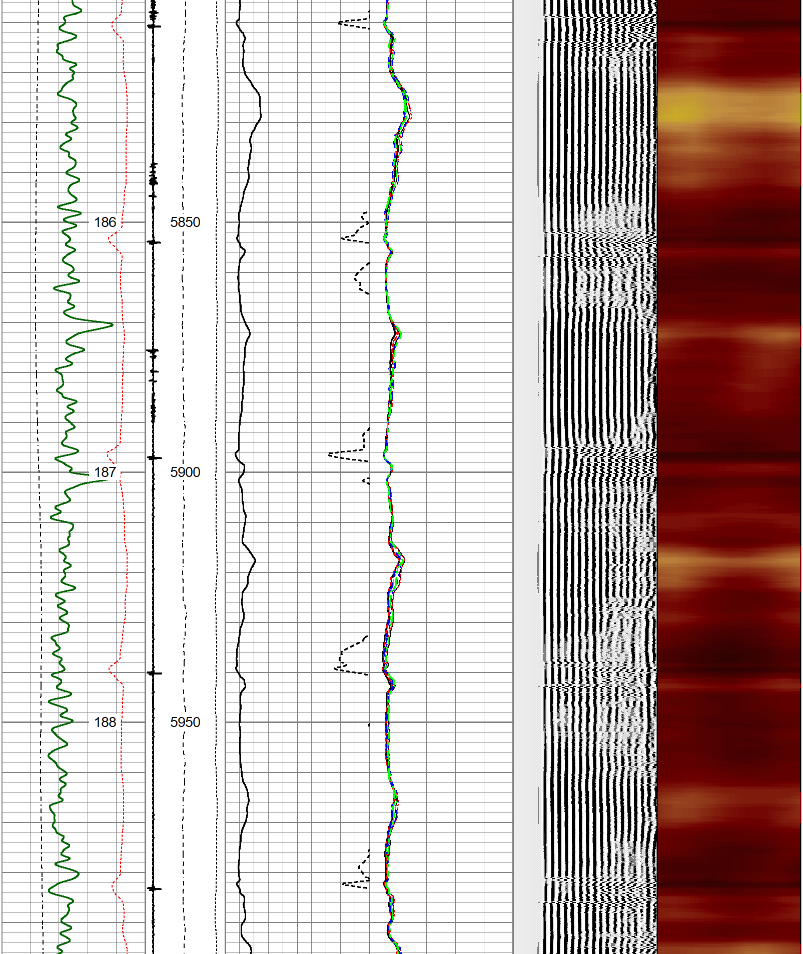

164
4800
165
4850
166
4900
167
4950

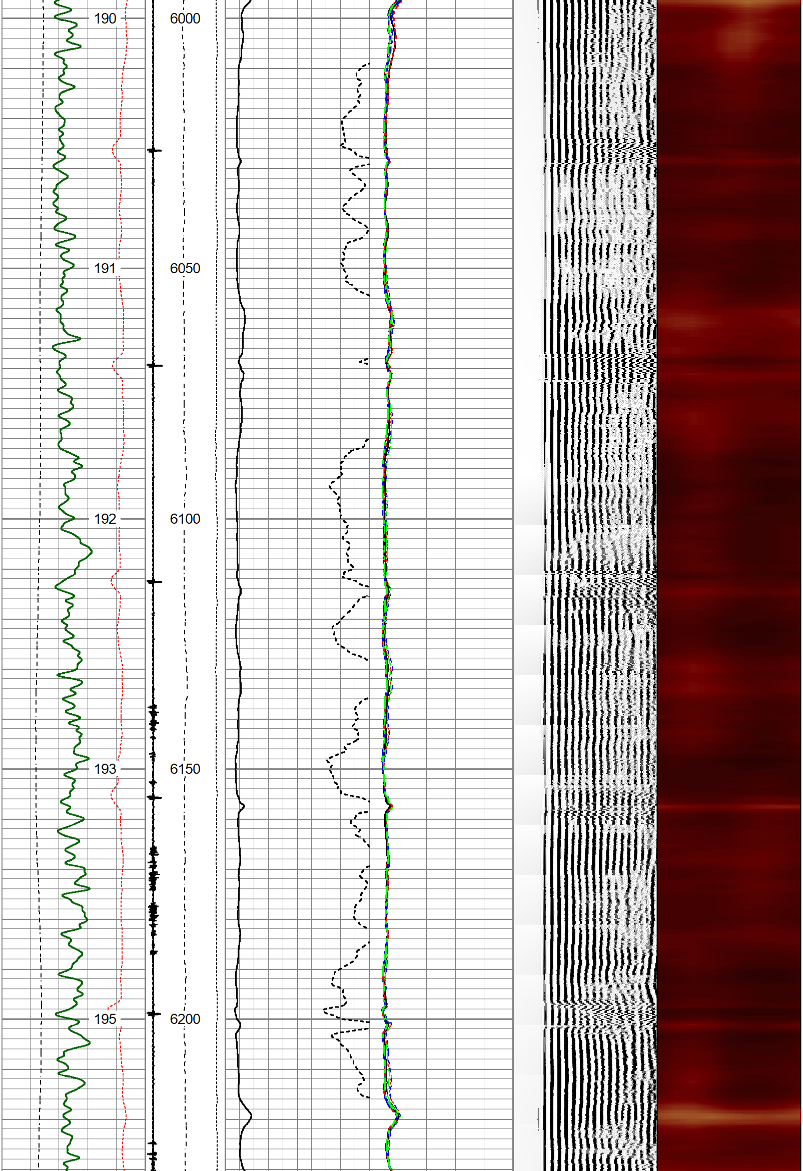

168
5000
169
5050
170
5100
171
5150

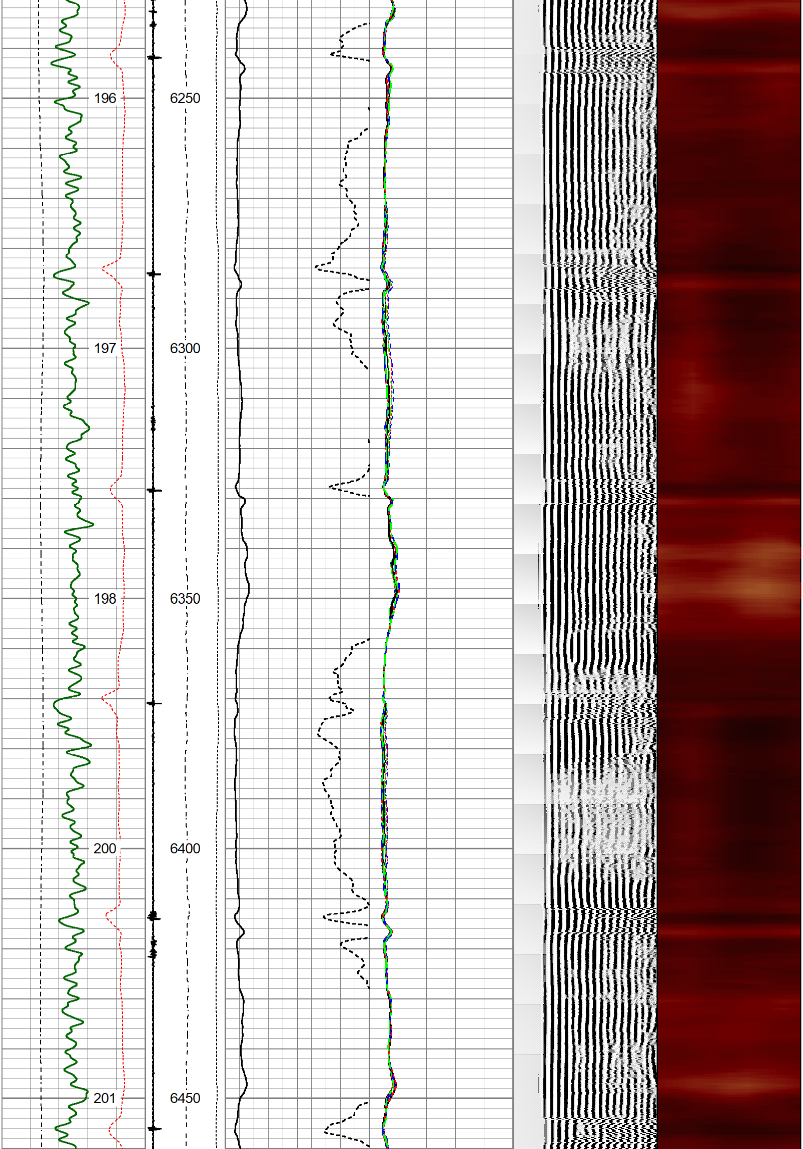

172
5200
173
5250
174
5300
175
5350
176
5400

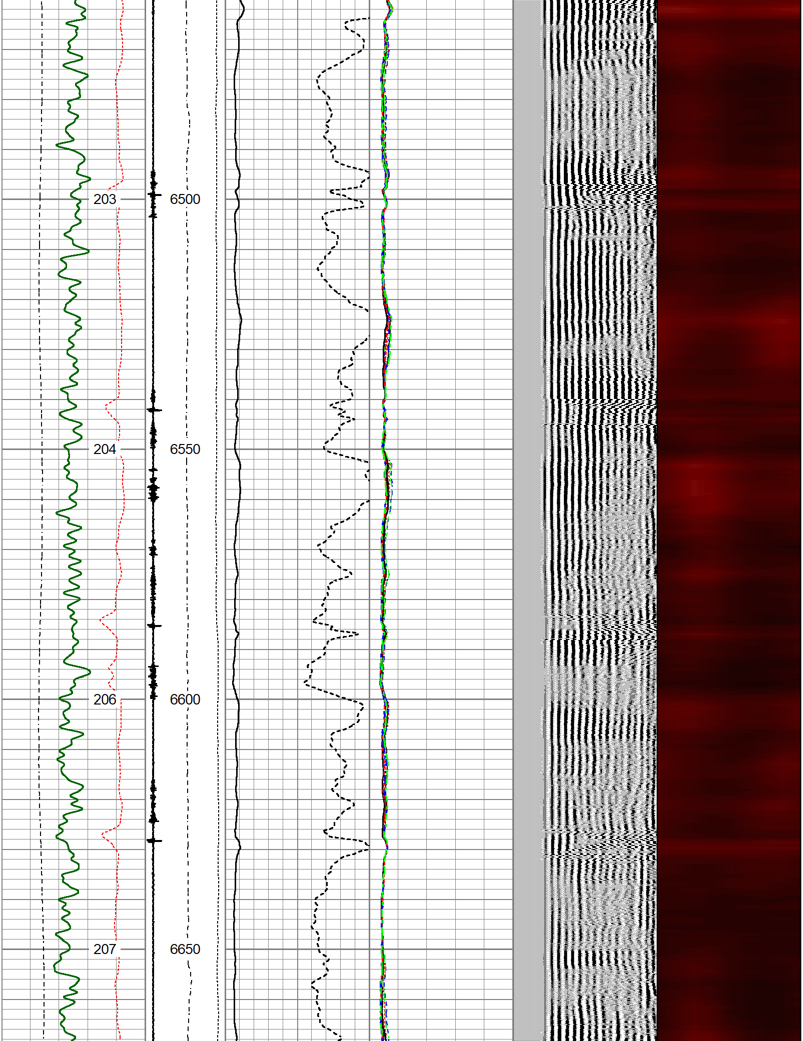

177
5450
179
5500
180
5550
181
5600

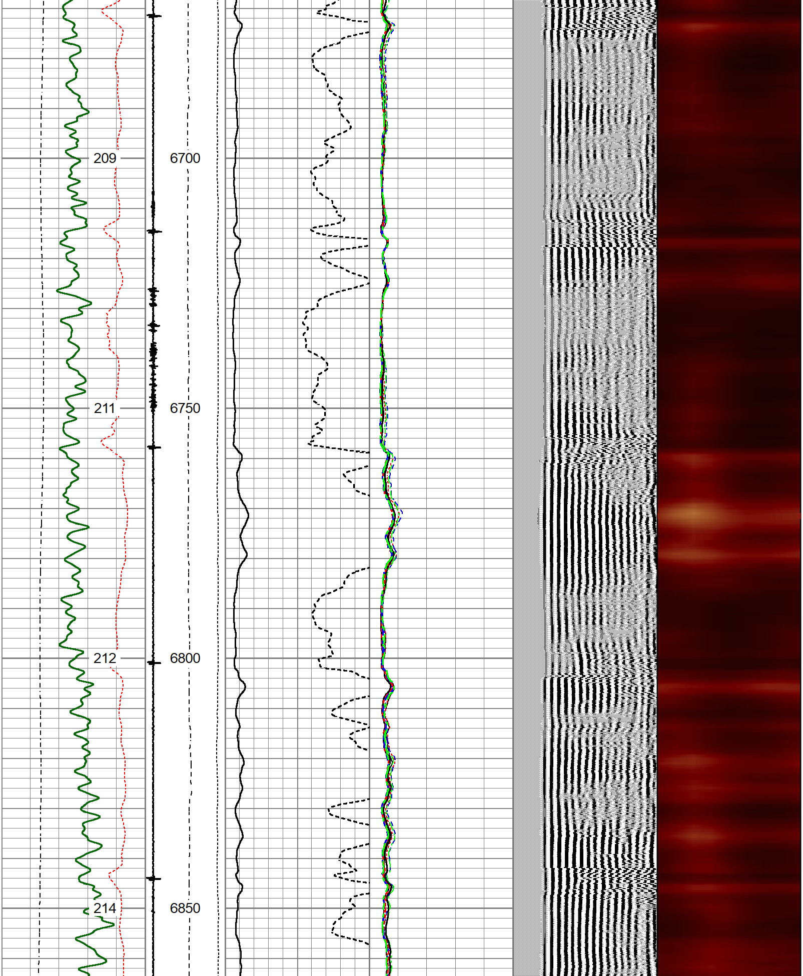

182
5650
183
5700
184
5750
185
5800

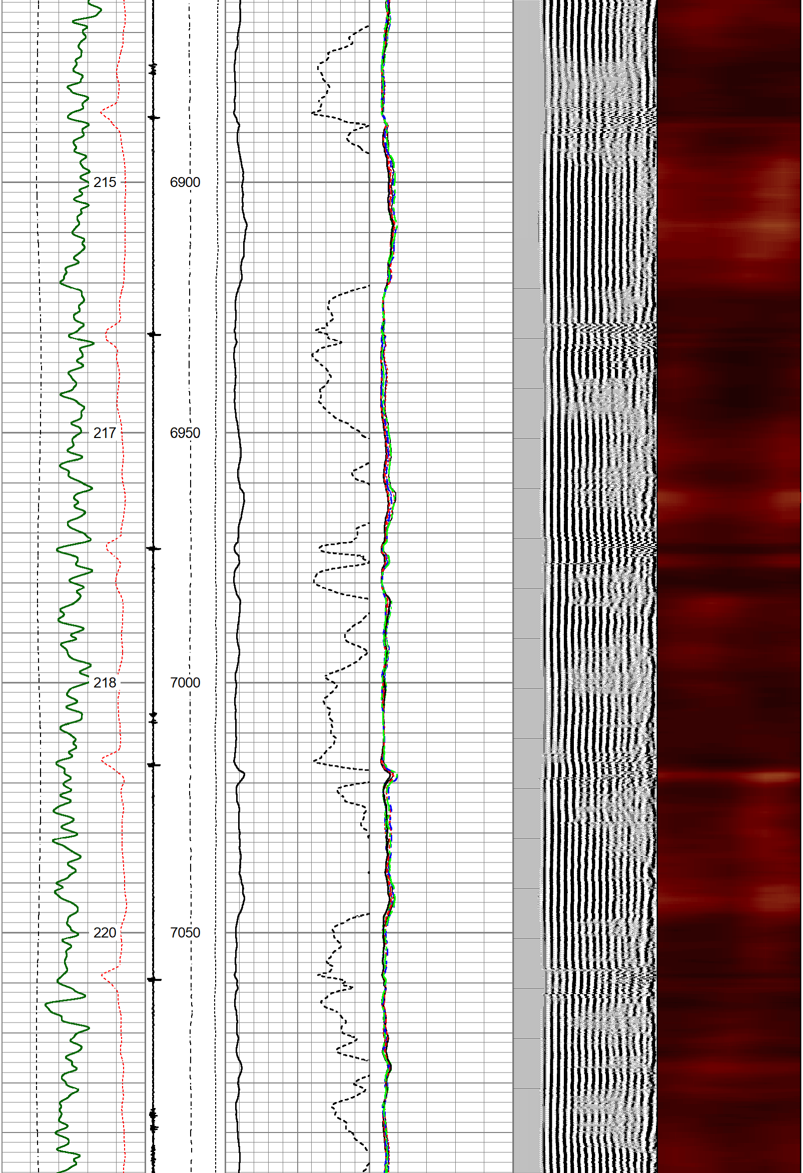

186
5850
187
5900
188
5950

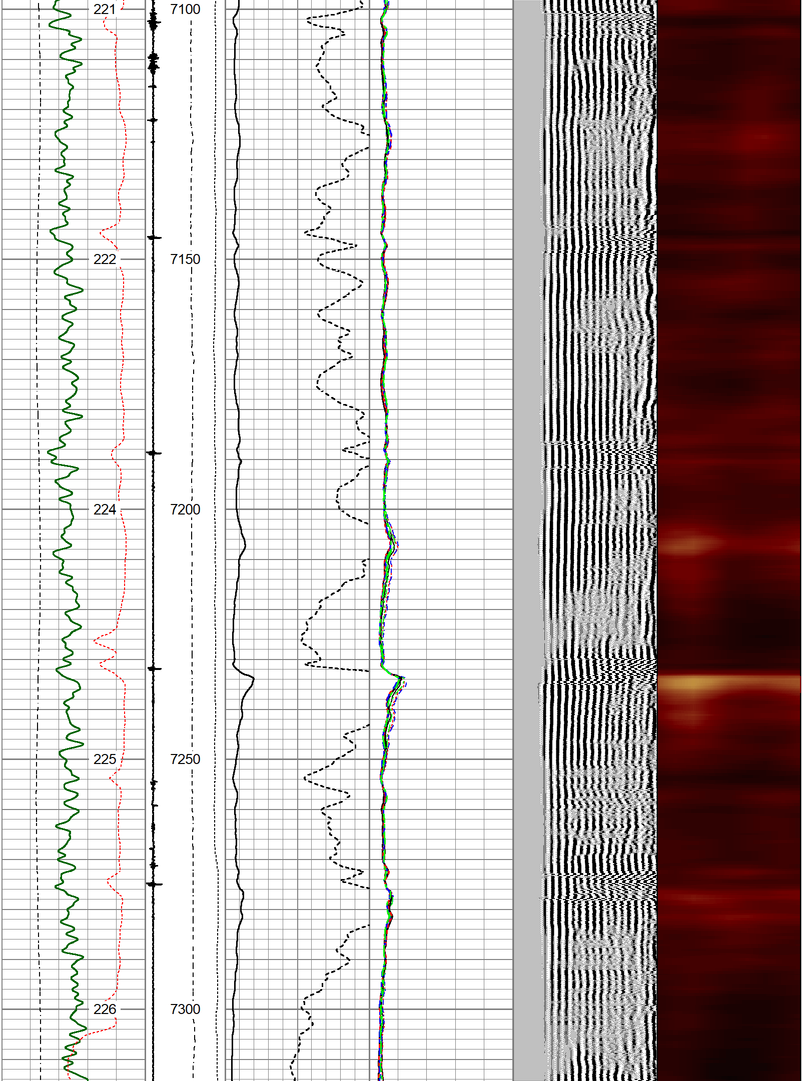

190
6000
191
6050
192
6100
193
6150
195
6200

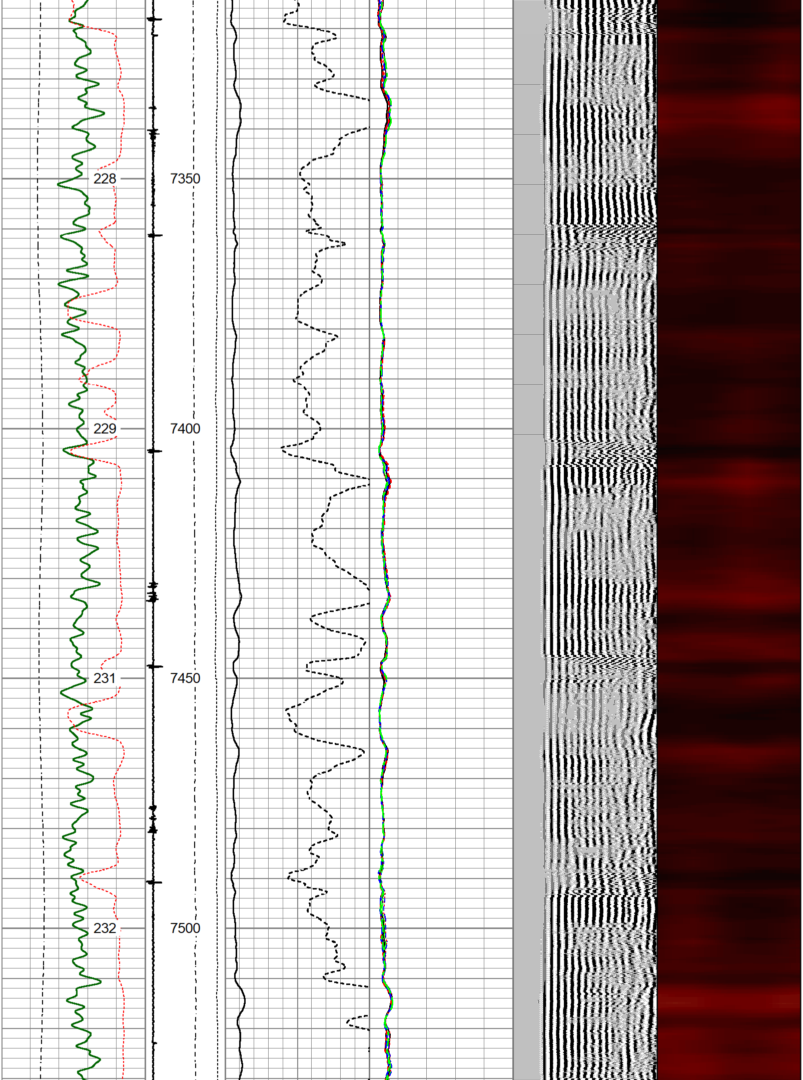

196
6250
197
6300
198
6350
200
6400
201
6450

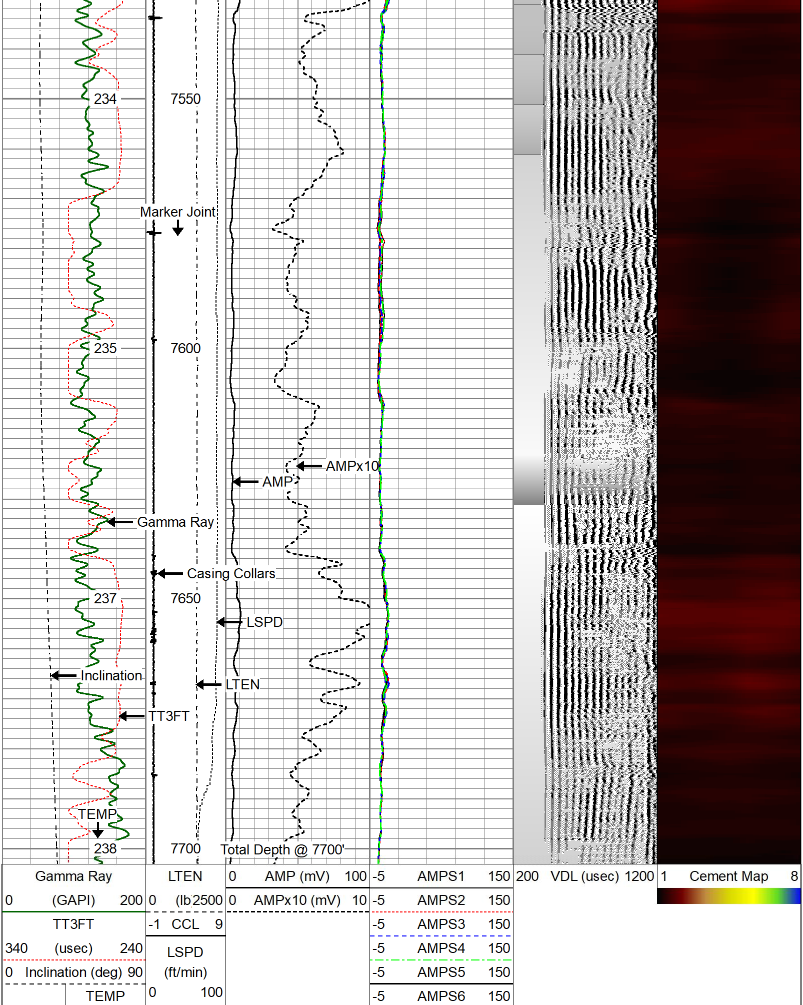

203
6500
204
6550
206
6600
207
6650


209
6700
211
6750
212
6800
214
6850


215
6900
217
6950
218
7000
220
7050


221
7100
222
7150
224
7200
225
7250
226
7300


228
7350
229
7400
231
7450
232
7500


234
7550
Marker Joint
235
7600
AMPx10
AMP
Gamma Ray
Casing Collars
237
7650
LSPD
Inclination
LTEN
TT3FT
TEMP
238
7700
Total Depth @ 7700'
Gamma Ray
0 (GAPI) 200
TT3FT
340 (usec) 240
0 Inclination (deg) 90
TEMP
LTEN
0 (lb 2500
-1 CCL 9
LSPD
(ft/min)
0 100
0 AMP (mV) 100
0 AMPx10 (mV) 10
-5 AMPS1 150
-5 AMPS2 150
-5 AMPS3 150
-5 AMPS4 150
-5 AMPS5 150
-5 AMPS6 150
200 VDL (usec) 1200
1 Cement Map 8

(degF)		-5 AMPS7 150 -5 AMPS8 150

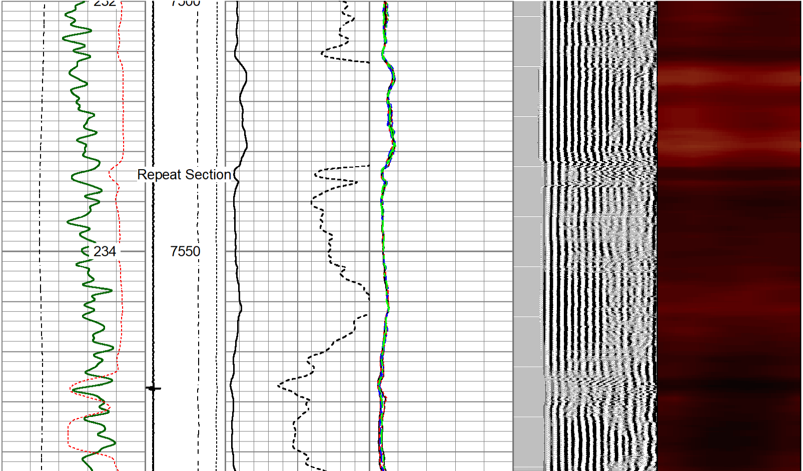
THE WIRELINE GROUP

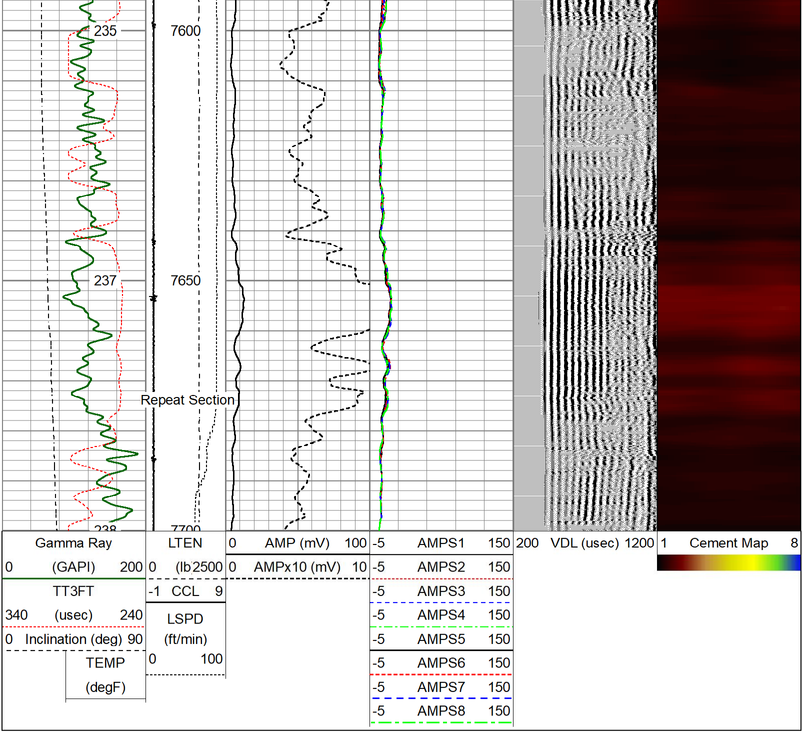
Repeat Section

Log ran under 2800 PSI surface induced pressure
5"=100'

Database File	0512352155_land fed 29-10hz_oxy.db
Dataset Pathname	cbl/pass2
Presentation Format	rbt-gct8acc
Dataset Creation	Thu Sep 07 14:11:36 2023
Charted by	Depth in Feet scaled 1:240

Gamma Ray 0 (GAPI) 200 TT3FT 340 (usec) 240 0 Inclination (deg) 90 TEMP (degF)	LTEN 0 (lb 2500 -1 CCL 9 LSPD (ft/min) 0 100	0 AMP (mV) 100 0 AMPx10 (mV) 10	-5 AMPS1 150 -5 AMPS2 150 -5 AMPS3 150 -5 AMPS4 150 -5 AMPS5 150 -5 AMPS6 150 -5 AMPS7 150 -5 AMPS8 150	200 VDL (usec) 1200	1 Cement Map 8





Calibration Report

Database File	0512352155_land fed 29-10hz_oxy.db
Dataset Pathname	cbl/pass2
Dataset Creation	Thu Sep 07 14:11:36 2023

Gamma Ray Calibration Report

Serial Number:	FW1905-206	
Tool Model:	50-GCT275-0000	
Performed:	Thu Aug 10 11:03:54 2023	
Calibrator Value:	168.0	GAPI
Background Reading:	82.9	cps
Calibrator Reading:	321.1	cps
Sensitivity:	0.8250	GAPI/cps

Inclinometer Calibration Report

Performed: Thu Mar 16 16:41:53 2023

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	-906.00	896.00	-1.00	1.00	gee
Y Accelerometer	-943.00	900.00	-1.00	1.00	gee
Z Accelerometer	1.47	-896.93	0.00	1.00	gee

Segmented Cement Bond Log Calibration Report

Serial Number:	1905150_5.5	
Tool Model:	Probe275acc	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	2448.403	ft

Master Calibration, performed Sat Aug 26 18:01:33 2023:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.016	0.897	1.000	71.921	63.530	0.826
CAL	-0.015	0.938				
5'	-0.011	0.848	1.000	71.921	82.188	1.974
SUM						
S1	-0.013	0.905	0.000	100.000	95.211	0.955
S2	-0.014	0.932	0.000	100.000	93.085	1.040
S3	-0.012	0.916	0.000	100.000	89.917	1.138
S4	-0.014	0.915	0.000	100.000	84.133	1.039
S5	-0.010	0.913	0.000	100.000	83.164	0.698
S6	-0.010	0.910	0.000	100.000	84.646	0.905
S7	-0.013	0.911	0.000	100.000	90.118	0.940
S8	-0.012	0.919	0.000	100.000	93.380	1.039

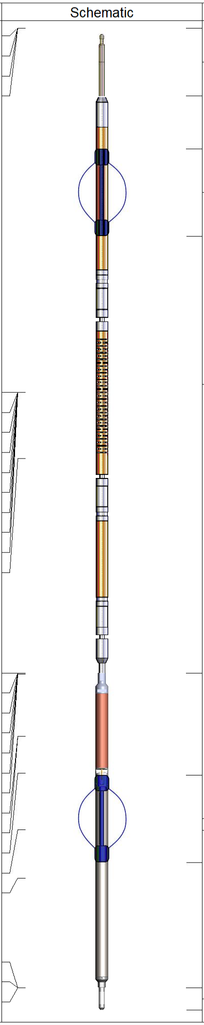
Inclinometer Calibration Report

Performed: Sat Aug 26 18:01:46 2023

	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)
GCT_FMWR	14.89
mSec_Count	14.89
RBT_Status	14.89
Error_Ct	14.89
WVFS8	9.35
WVFS7	9.35
WVFS6	9.35
WVFS5	9.35
WVFS4	9.35
WVFS3	9.35
WVFS2	9.35
WVFS1	9.35
WVF3FT	9.35
WVF5FT	8.35
RBT_HV	5.10
RBT_ACCZ	5.10
RBT_ACCY	5.10
RBT_ACCX	5.10
WVFSYNC	5.10
WVFCAL	5.10
GCT_HV	5.09
CCL$2	4.14
CCL$1	4.14
GCT_Temp	3.59
GR	2.72
GCT_IntTemp	2.00
GCT_ACCZ	0.33
GCT_ACCY	0.33
GCT_ACCX	0.33

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
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
RBT8acc-Probe275acc (1905150_5.5) 2.75" Radial Corrosion with accelerometer	8.75	2.75	110.00
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
GCT_acc-50-GCT275-0000 (FW1905-206) Probe 2.75" Gamma Ray - CCL w/Temp (Single Pin)	4.77	2.75	55.00
Plug-FA108-0000 1.38" Bull Plug	0.33	1.38	1.00

Dataset:	0512352155_land fed 29-10hz_oxy.db: field/well/cbl/pass2
Total length:	14.89 ft
Total weight:	198.00 lb
O.D.:	3.25 in

TWG
THE WIRELINE
GROUP

Company	Occidental Petroleum Corp.
Well	Land Fed 29-10HZ
Field	Wattenberg
County	Weld
State	Colorado
Country	USA