Comp. ANADARKO PETROLEUM COMPANY
Well MEAD PLACE 13-22
Field WATTENBERG
Co. WELD
State COLORADO

AXIS ENERGY SERVICES

RADIAL BOND LOG WITH GAMMA RAY

Company **ANADARKO PETROLEUM COMPANY**
Well **MEAD PLACE 13-22**
Field **WATTENBERG**
County **WELD** State **COLORADO**

Location: API # : 05-123-30071

NE SW

SEC 22 TWP 3N RGE 68W

Other Services

NONE

Permanent Datum	GL		Elevation	4995'
Log Measured From	KB	15'	Above Perm. Datum	
Drilling Measured From	KB			

Elevation
K.B. 4995'
D.F.
G.L. 4980'

Date of Service	13-SEPT-2024		
Run Number	ONE		
Depth Driller or PBTD	8045'		
Depth Logger	NA		
Bottom Log Interval	4500'		
Top Log Interval	SURFACE		
Open Hole Size	NA		
Type Fluid	WATER		
Fluid Level	FULL		
Fluid Density	NA		
Max. Recorded Temperature	SEE LOG		
Max. Wellhead Pressure	ZERO		
Wellhead Connection	NA		
Estimated Cement Top	SEE LOG		
Unit Number	3791		
Wireline Size	1/4"		
Location	FT MORGAN		
Recorded By	P COOPER		
Witnessed By	J. CRISLER		

	Size	Wt/Ft	Top	Bottom
Tubing Record				
Surface Casing	8-5/8"	24#	SURFACE	528'
Production Casing	4-1/2"	11.6#	SURFACE	8035'
Liner Record				

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, LLC will not 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.

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.
CORRALATED TO COLLARS FROM PREVIOUS LOG
4433' & 4477'

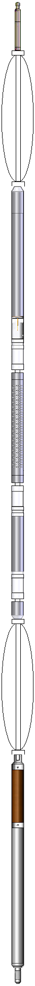
THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew
Engineer: P COOPER
Operator: L. CASTILLO
Operator: A. DRIELING
Operator:

Tool Data - Services	Serial Number
SCBL	

Sensor	Offset (ft)
TEMP	14.24
WVFS8	11.94
WVFS7	11.94
WVFS6	11.94
WVFS5	11.94
WVFS4	11.94
WVFS3	11.94
WVFS2	11.94
WVFS1	11.94
WVFCAL	11.94
WVF3FT	11.94
WVF5FT	10.94
HEADVOLT	7.76
CCL	3.97
GR	2.67

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
Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
PROBE-RBT-DIGITAL-RBL-DCT (070641) Probe 2 3/4" Radii Bond with Temp-Corrosion Package	9.21	2.75	105.00
Centralizer-275 Probe 2 3/4" Probe Adjustable Spring Centralizer	2.88	2.75	15.00
PROBE-GR/CCL-DIGITAL-275 Probe GR-CCL (070529) Probe 2 3/4" Gamma Ray / CCL DIGITAL	4.54	2.75	60.00
Bullnose-PROBE Probe Go Pin Pressure Cap	0.33	1.38	1.00

Dataset:	oxy_mead place 13-22_0512330071_rcbl_09132024.db: field/well/run1/pass3
Total length:	20.88 ft
Total weight:	198.00 lb
O.D.:	2.75 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\oxy_mead place 13-22_0512330071_rcbl_09132024.db
Dataset field/well/run1/pass3/_vars_

Top - Bottom

BHTEMP_Src	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	CASEWGHT lb/ft	MAXAMPL mV	MINAMPL mV
TEMP	7.875	100	4.5	0.304	11.6	0	1

MINATTN db/ft	PERFS	PPT usec	SRFTEMP degF	TDEPTH ft
0.8	No	0	0	0

Variable Description

BHTEMP_Src : BHTEMP Input Source Selector
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
CASEWGHT : Casing Weight
MAXAMPL : Maximum Amplitude
MINAMPL : Minimum Amplitude
MINATTN : Minimum Attenuation
PERFS : Perforation Flag
PPT : Predicted Pipe Time
SRFTEMP : Surface Temperature
TDEPTH : Total Depth

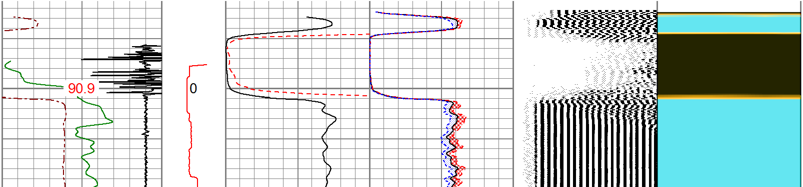
AXIS ENERGY SERVICES

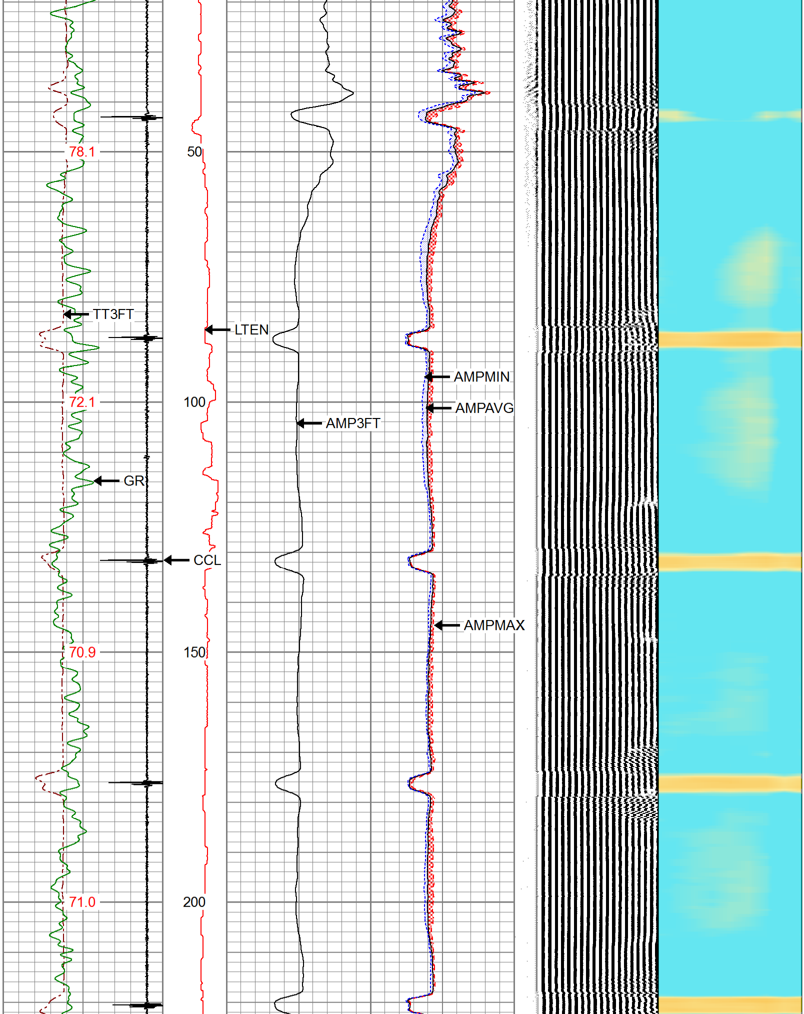
MAIN LOG

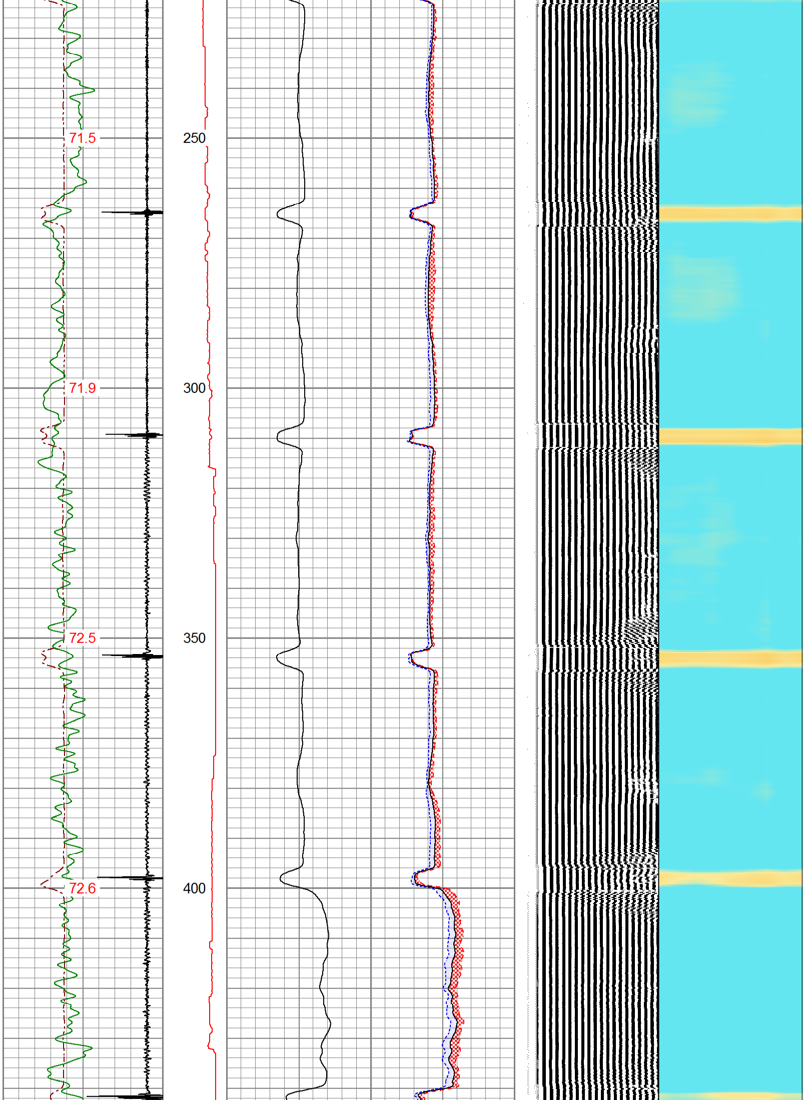
2500 PSI APPLIED AT SURFACE

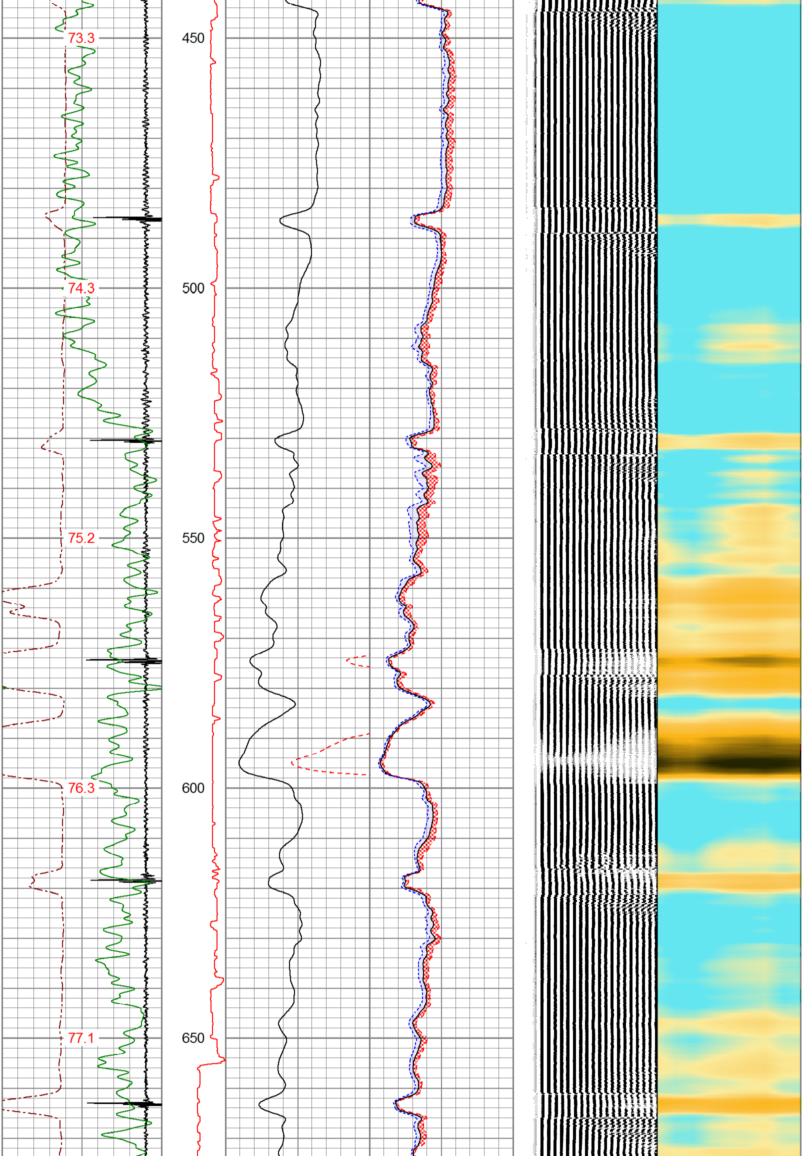
Database File	oxy_mead place 13-22_0512330071_rcbl_09132024.db
Dataset Pathname	LOG2/pass3
Presentation Format	pinr_scbl
Dataset Creation	Fri Sep 13 16:42:38 2024
Charted by	Depth in Feet scaled 1:240

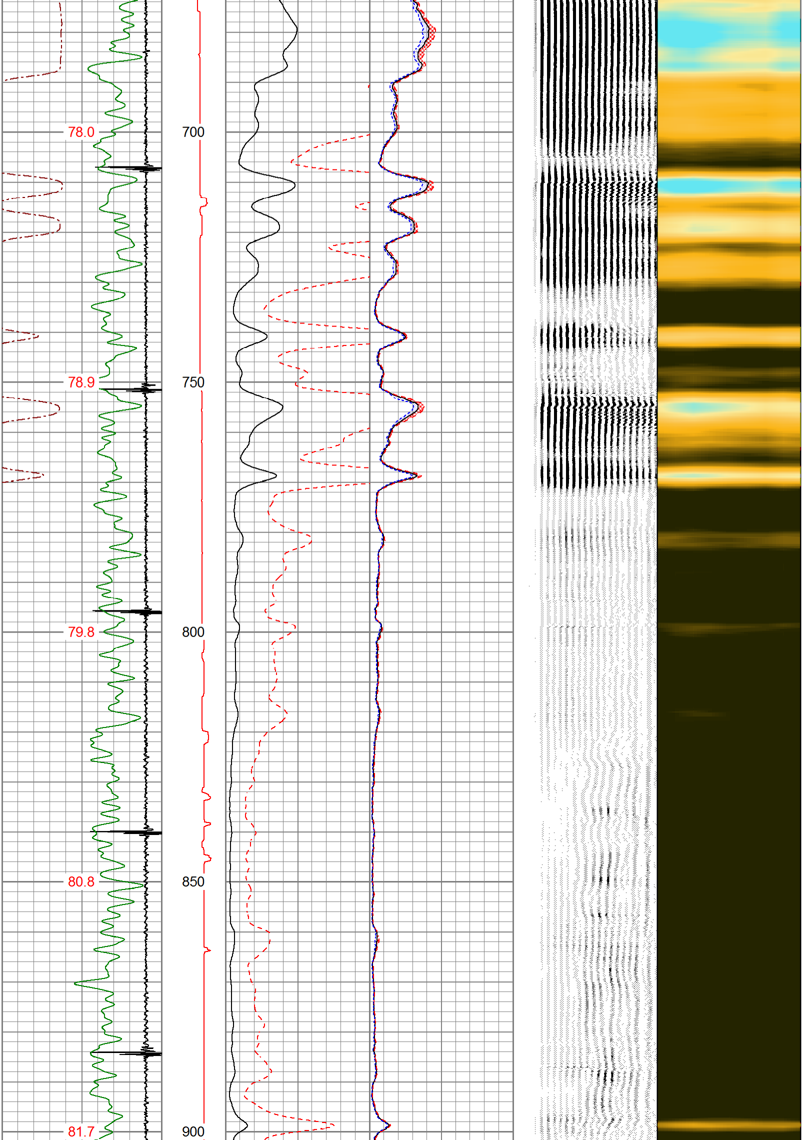
3Ft Travel Time 275 (usec) 175 -9 Collar Locator 1 Gamma Ray 0 (GAPI) 150 TEMP (degF)	LineTension (lb) 0 500	3' Amplitude 0 (mV) 100 3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Average 0 150 Sector Amplitude Maximum 0 150 Sector Amplitude Minimum 0 150	200 VDL (usec) 1200	1 Sector Map 8

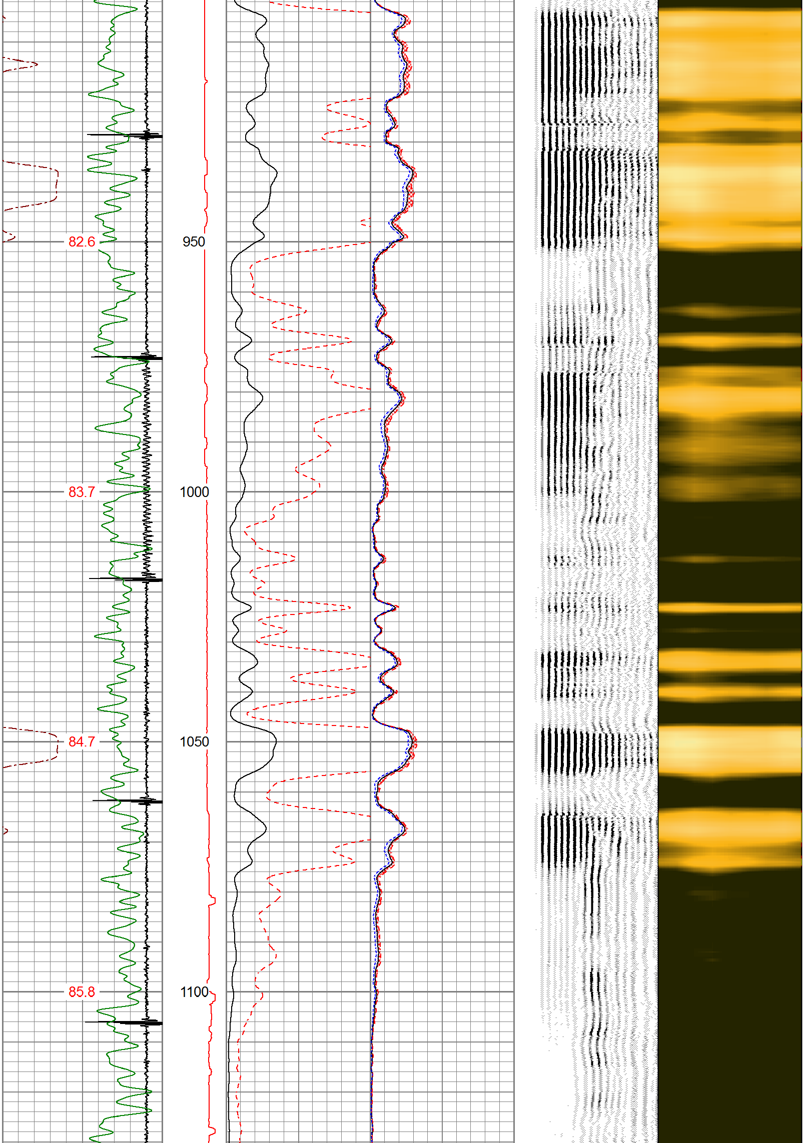


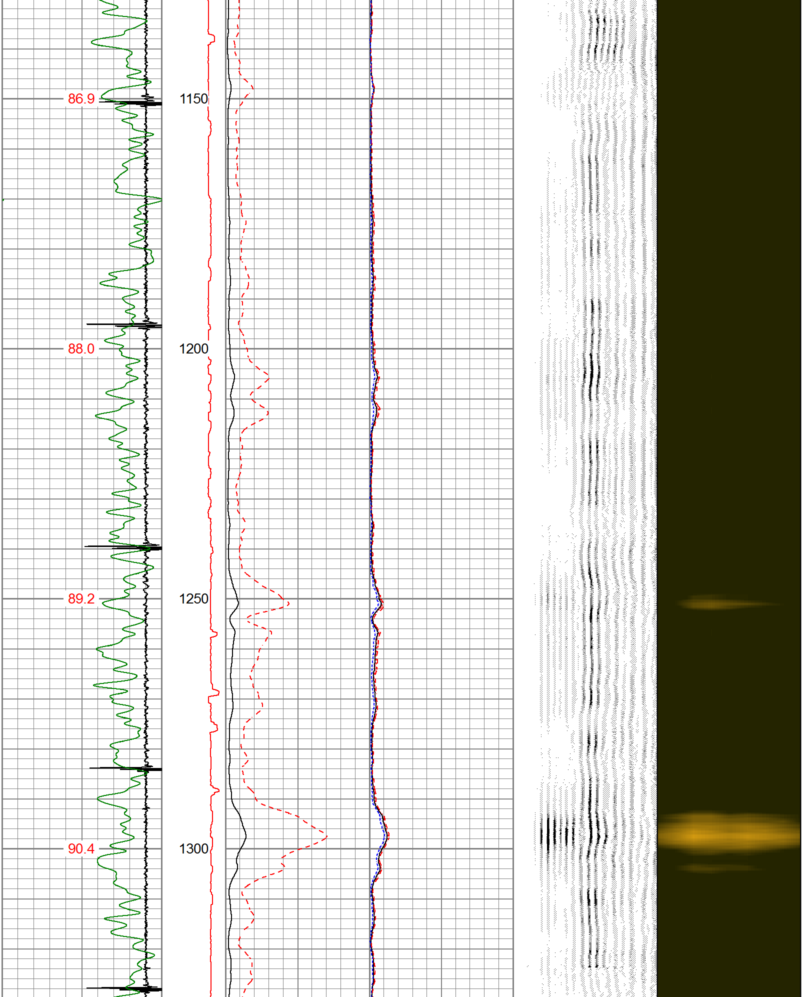


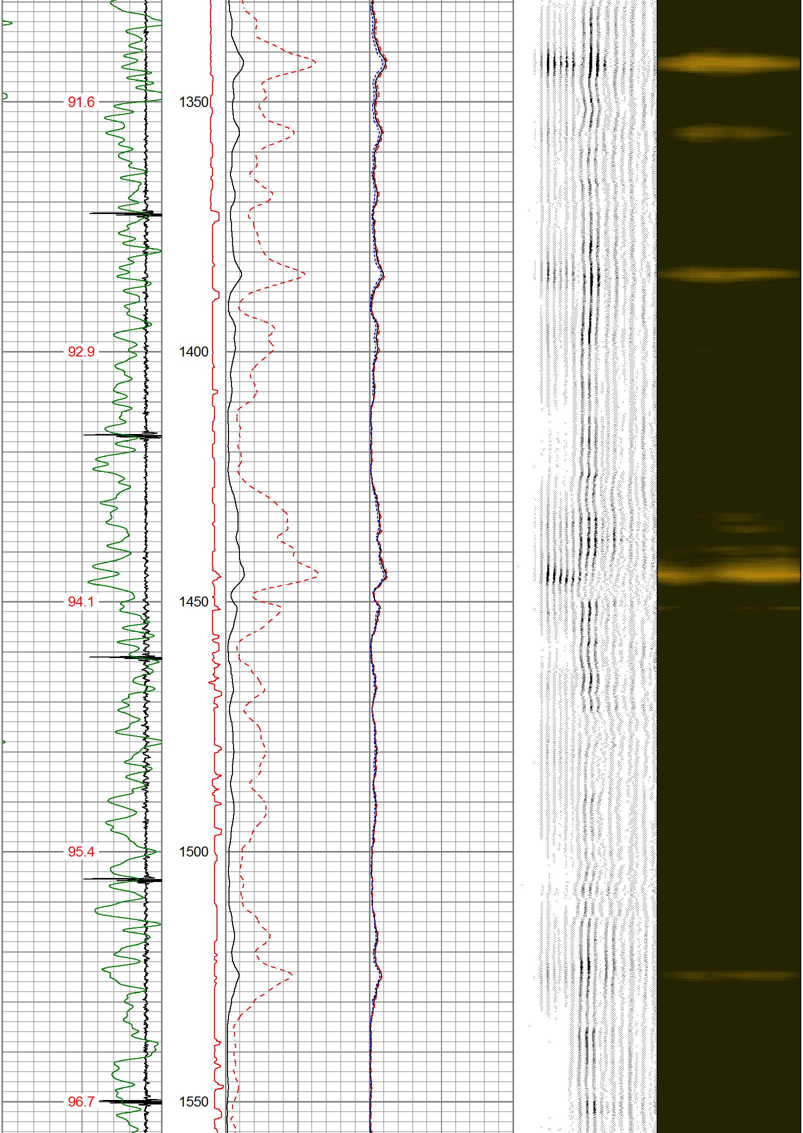


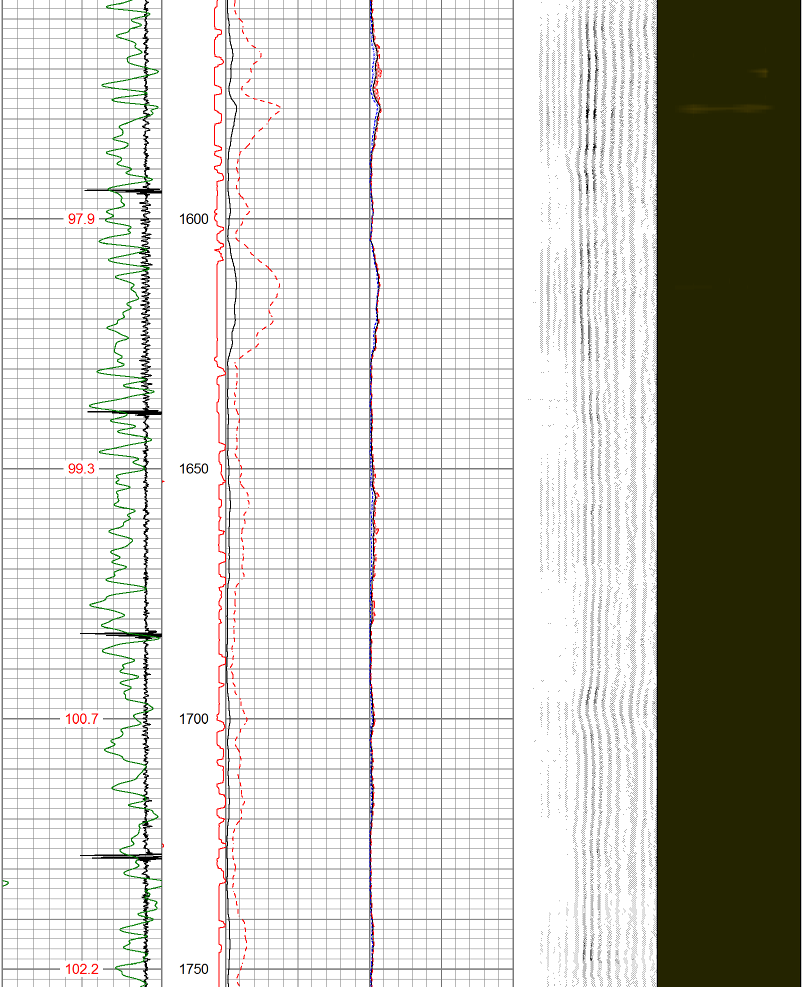


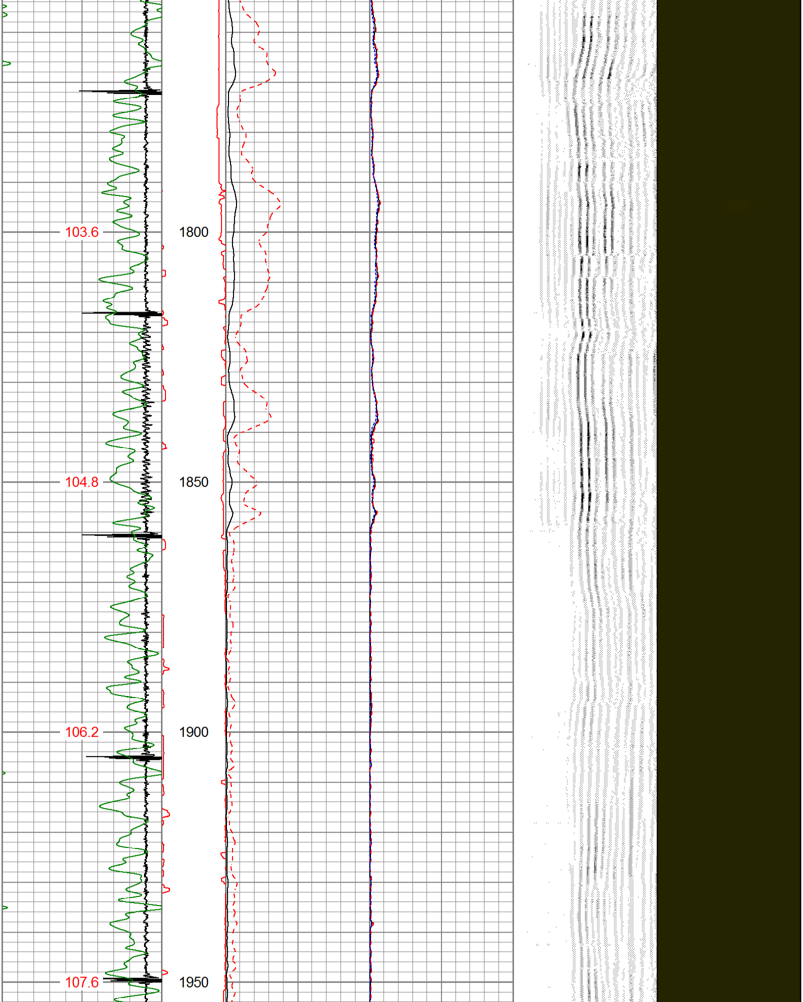


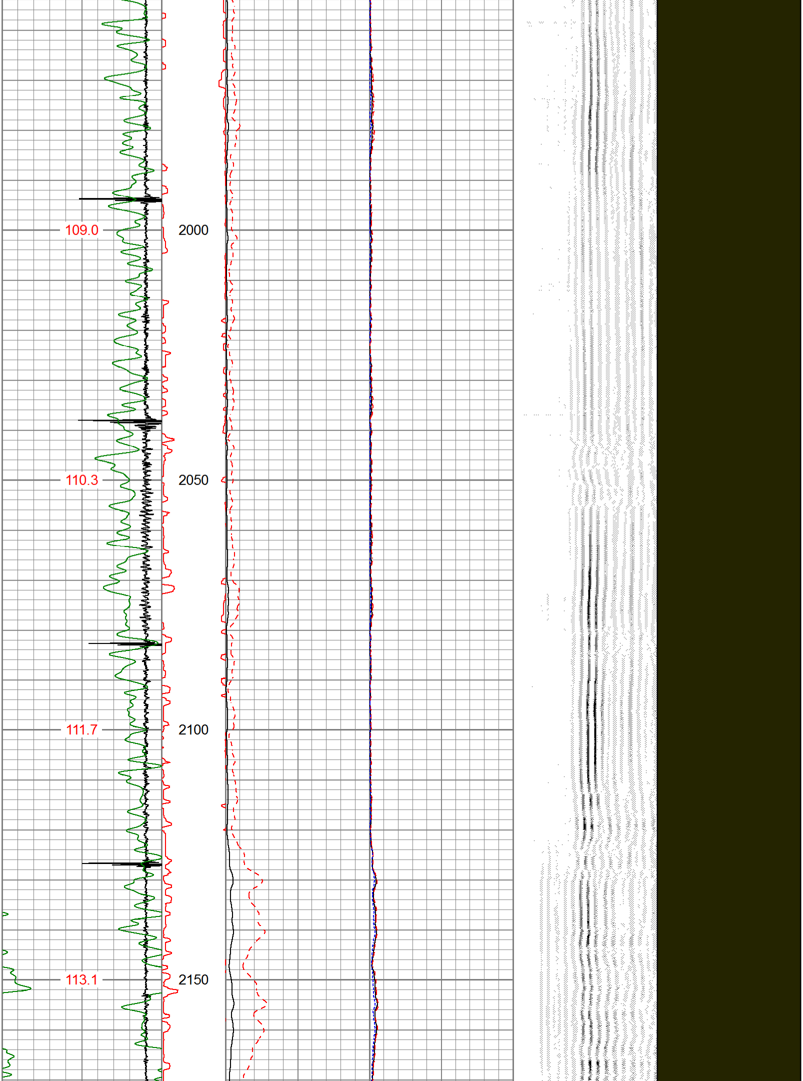


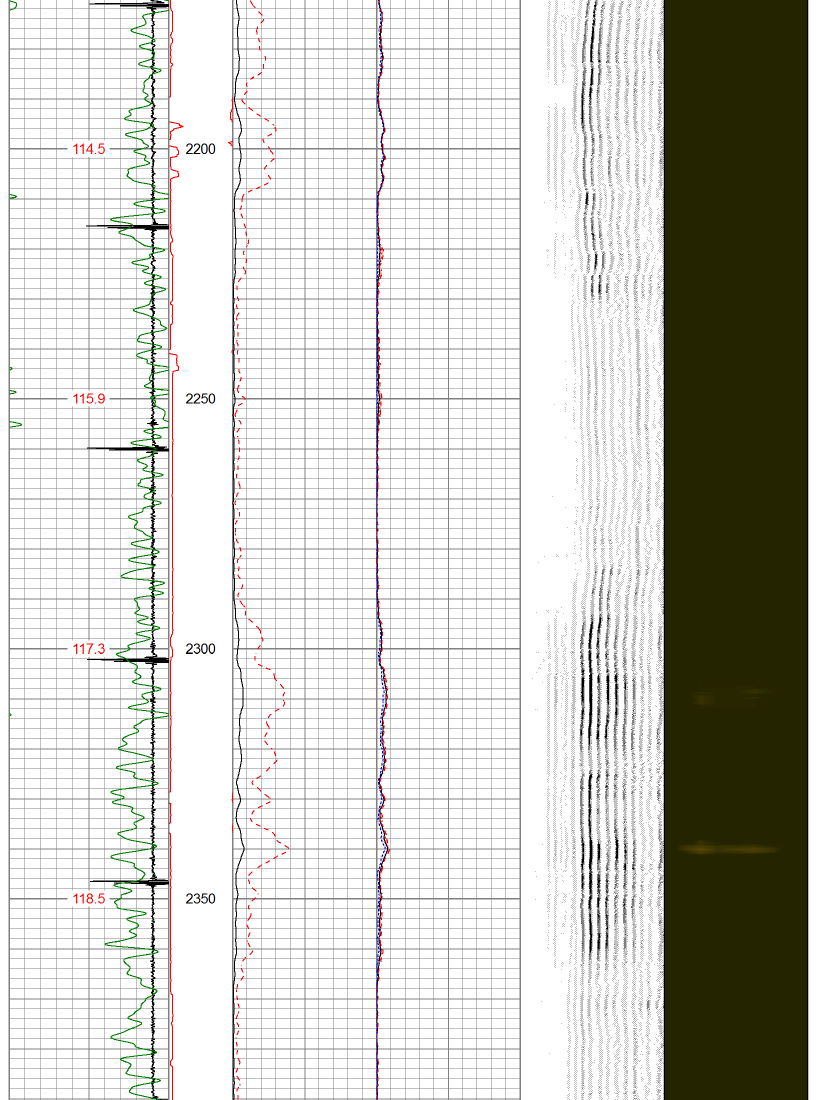


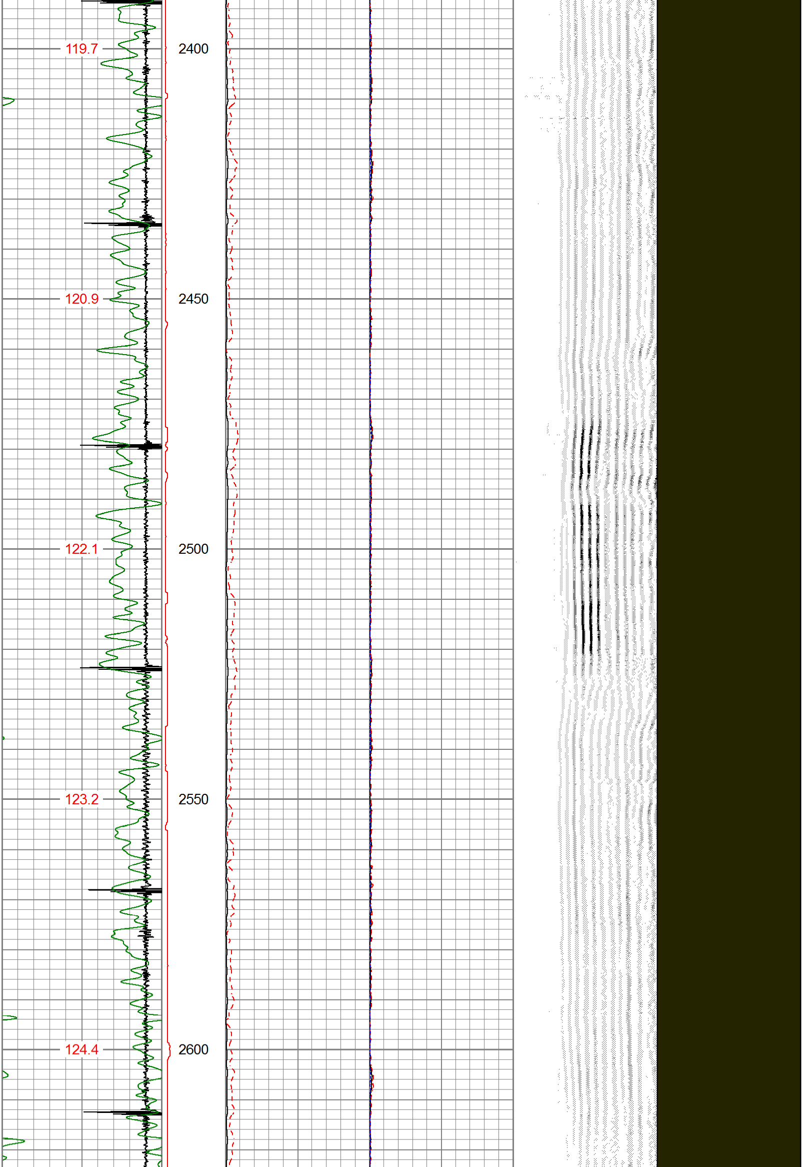


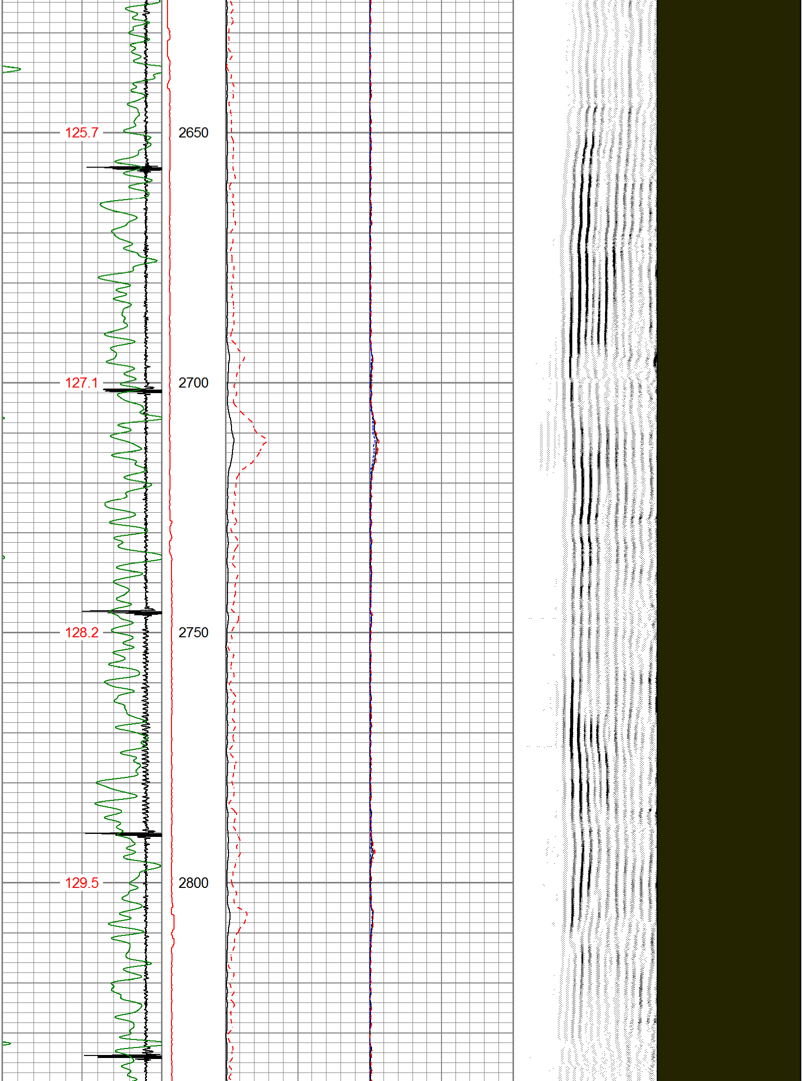


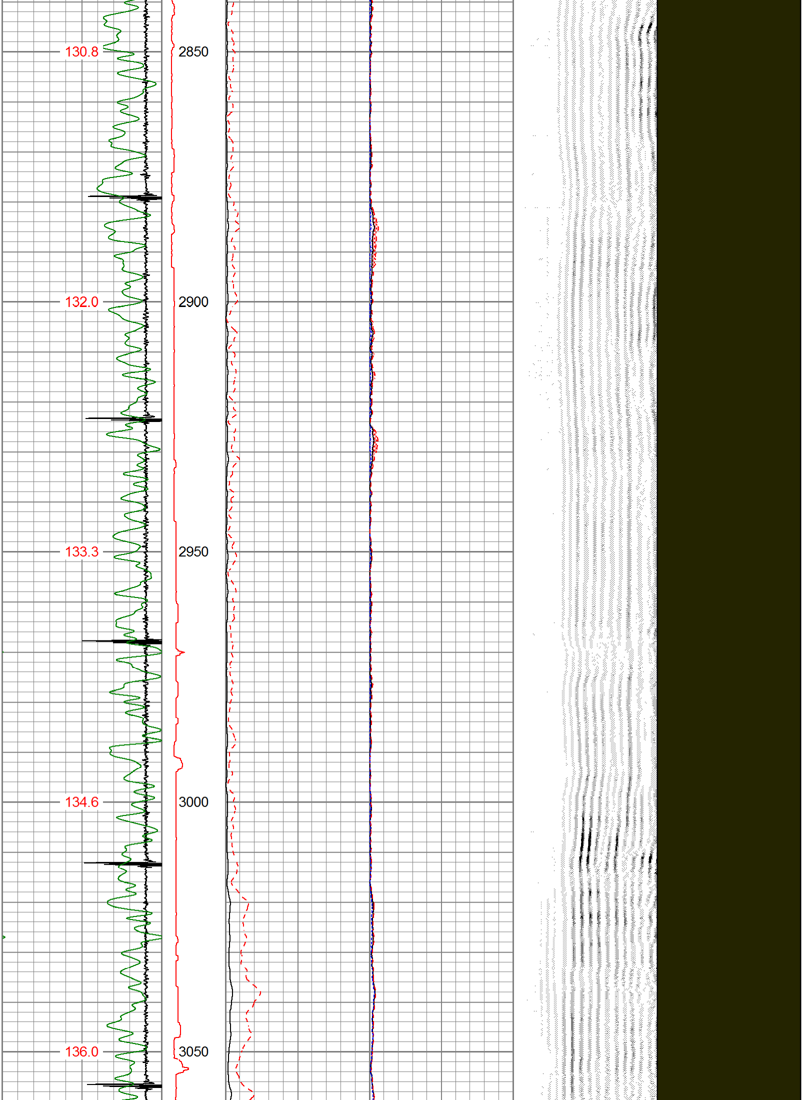


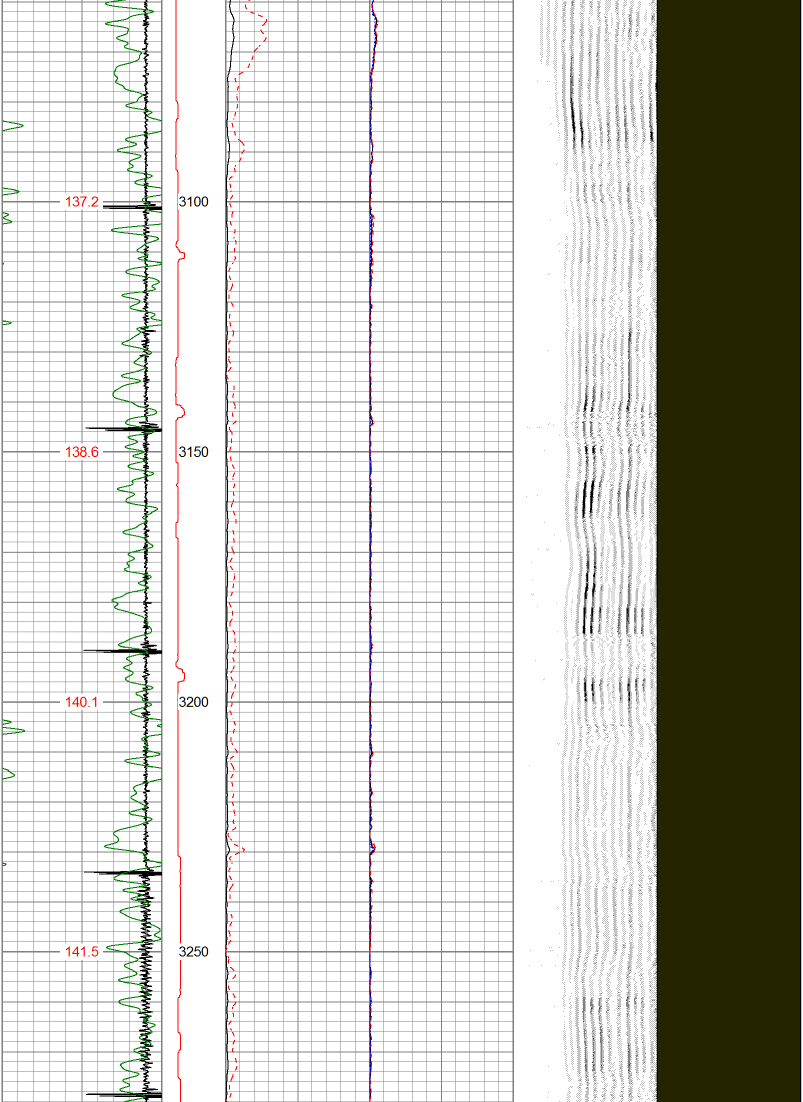


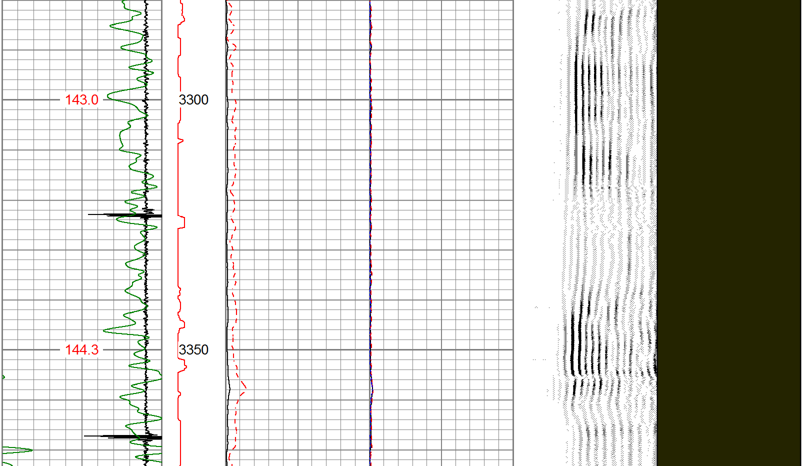


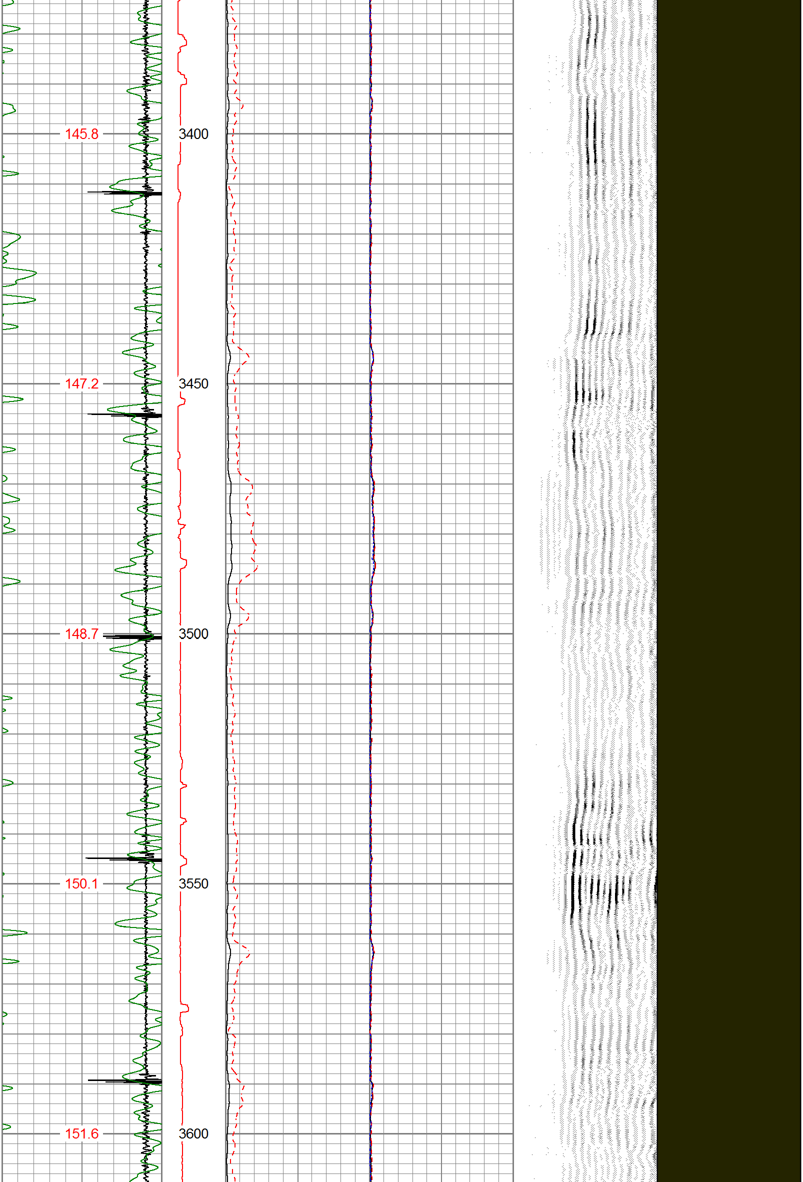


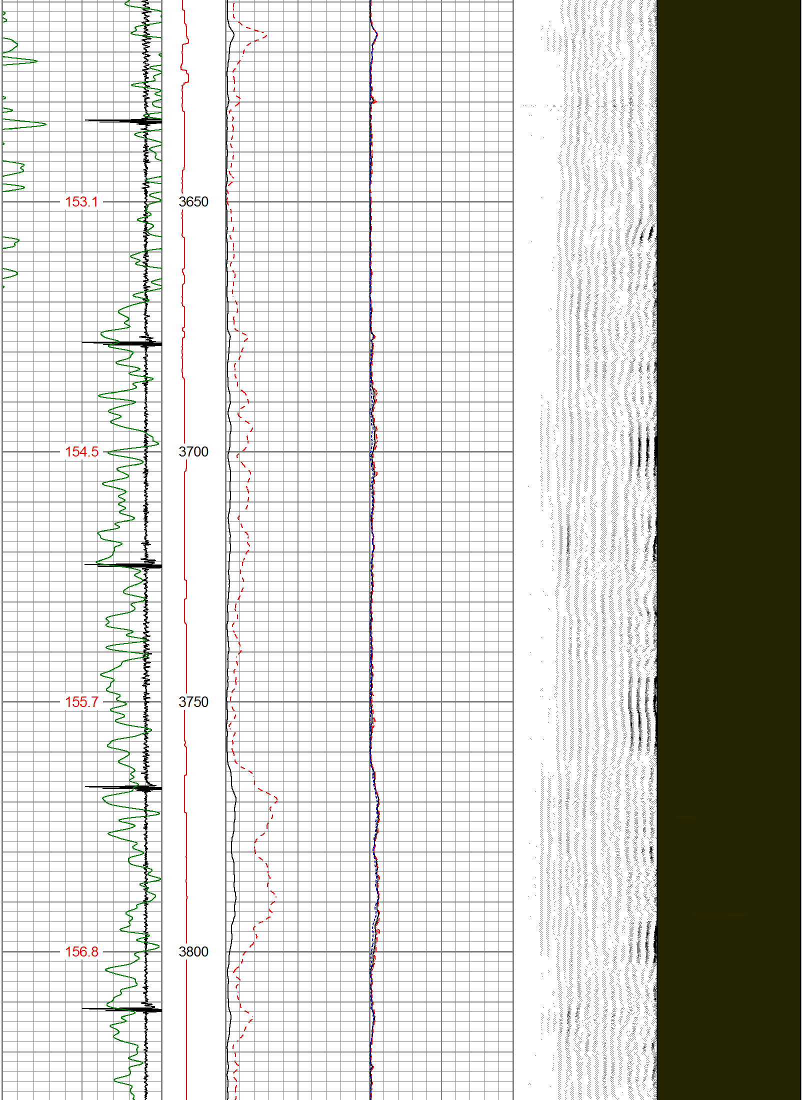


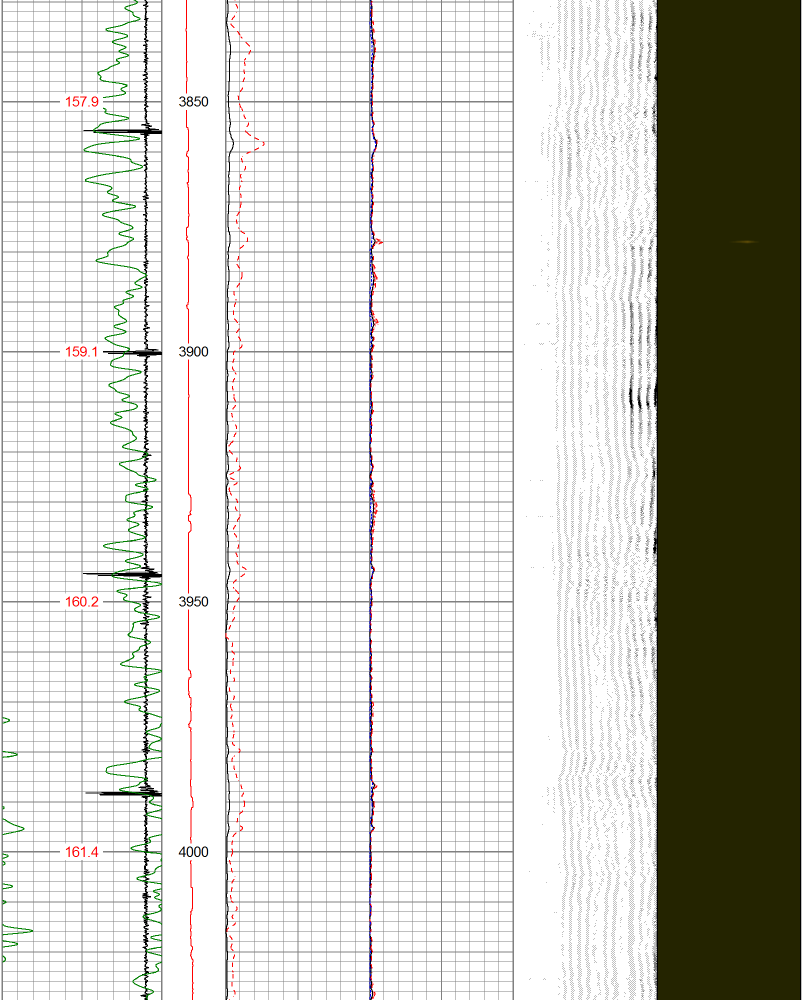


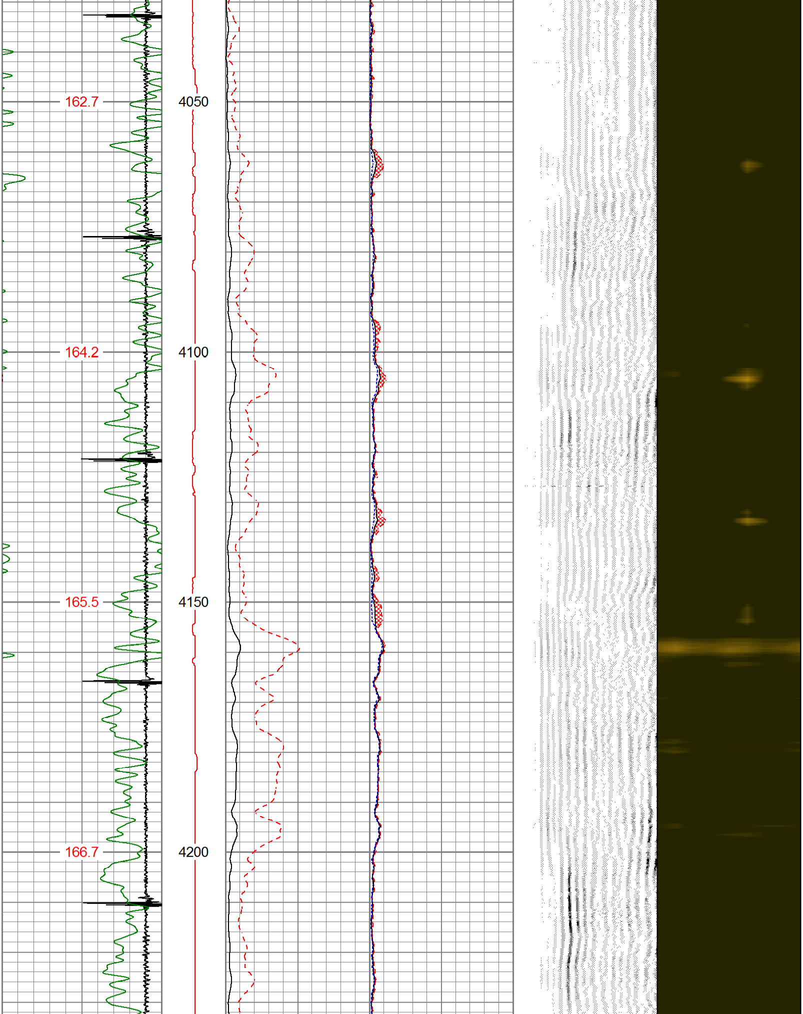


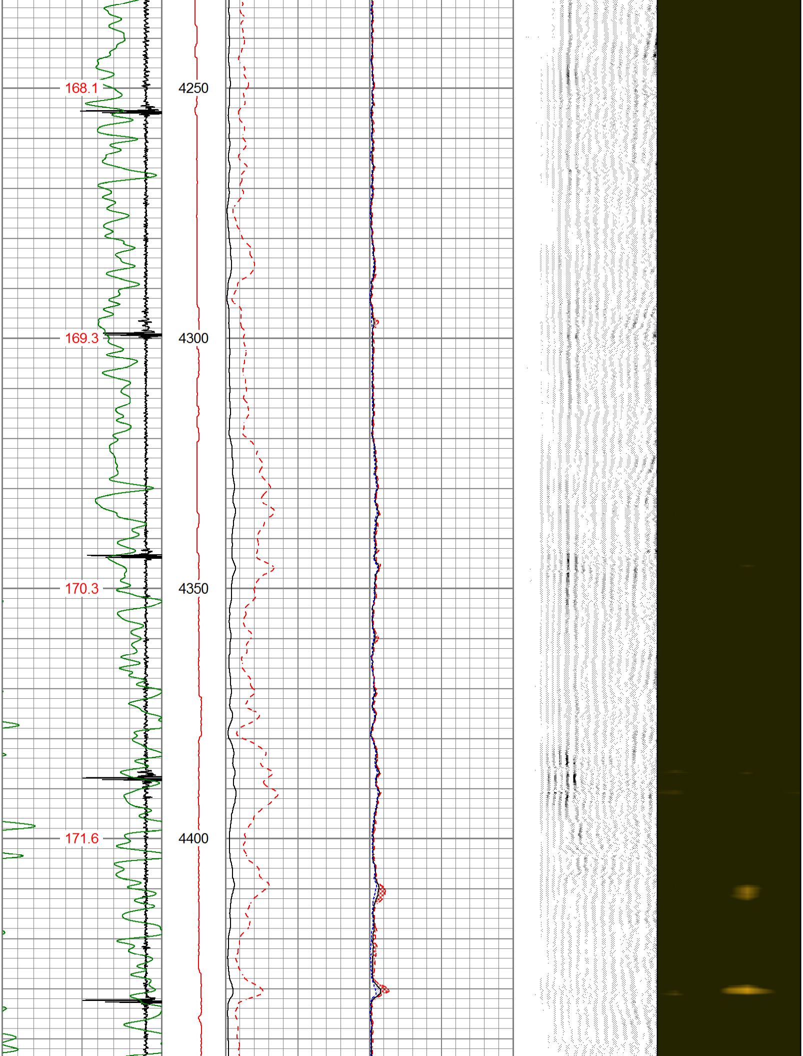


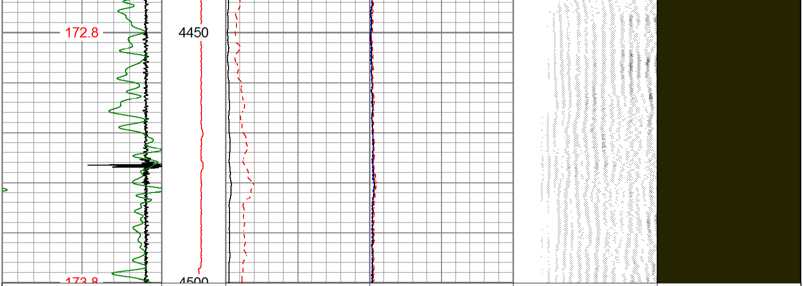












3Ft Travel Time 275 (usec) 175 -9 Collar Locator 1 Gamma Ray 0 (GAPI) 150 TEMP (degF)	LineTensior (lb) 0 500	3' Amplitude 0 (mV) 100 3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Average 0 150 Sector Amplitude Maximum 0 150 Sector Amplitude Minimum 0 150	200 VDL (usec) 1200	1 Sector Map 8

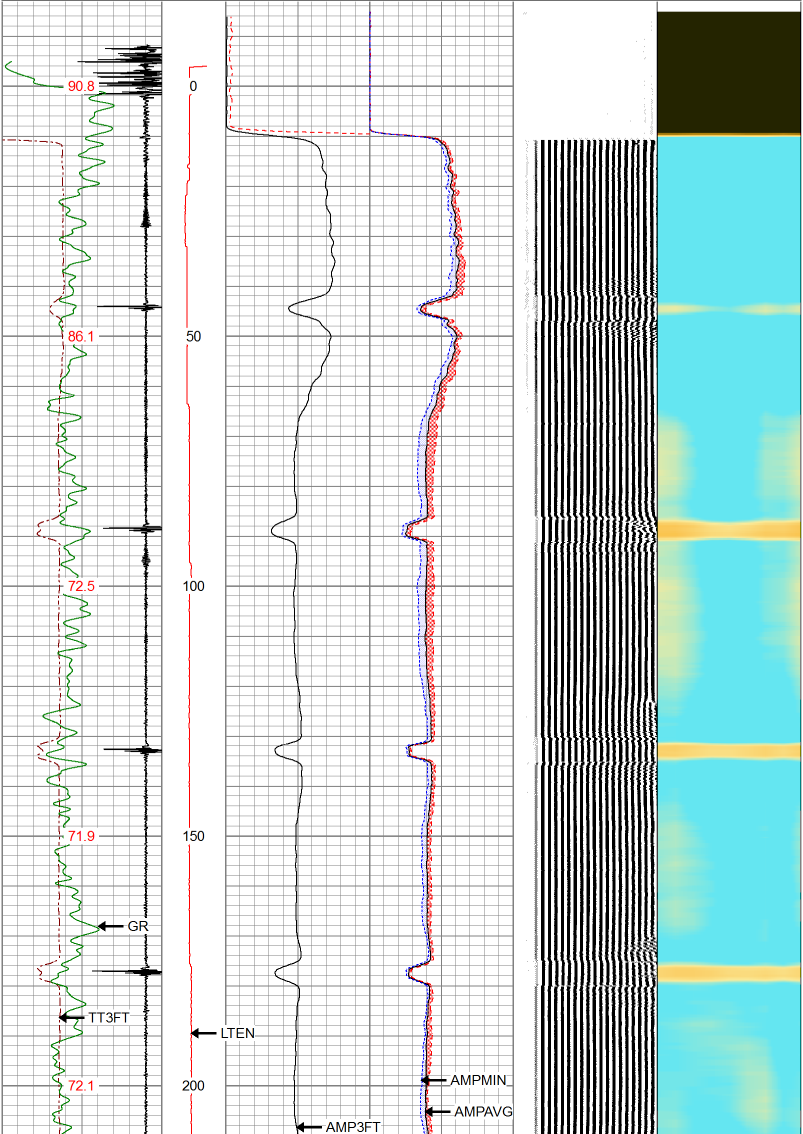
AXIS ENERGY SERVICES

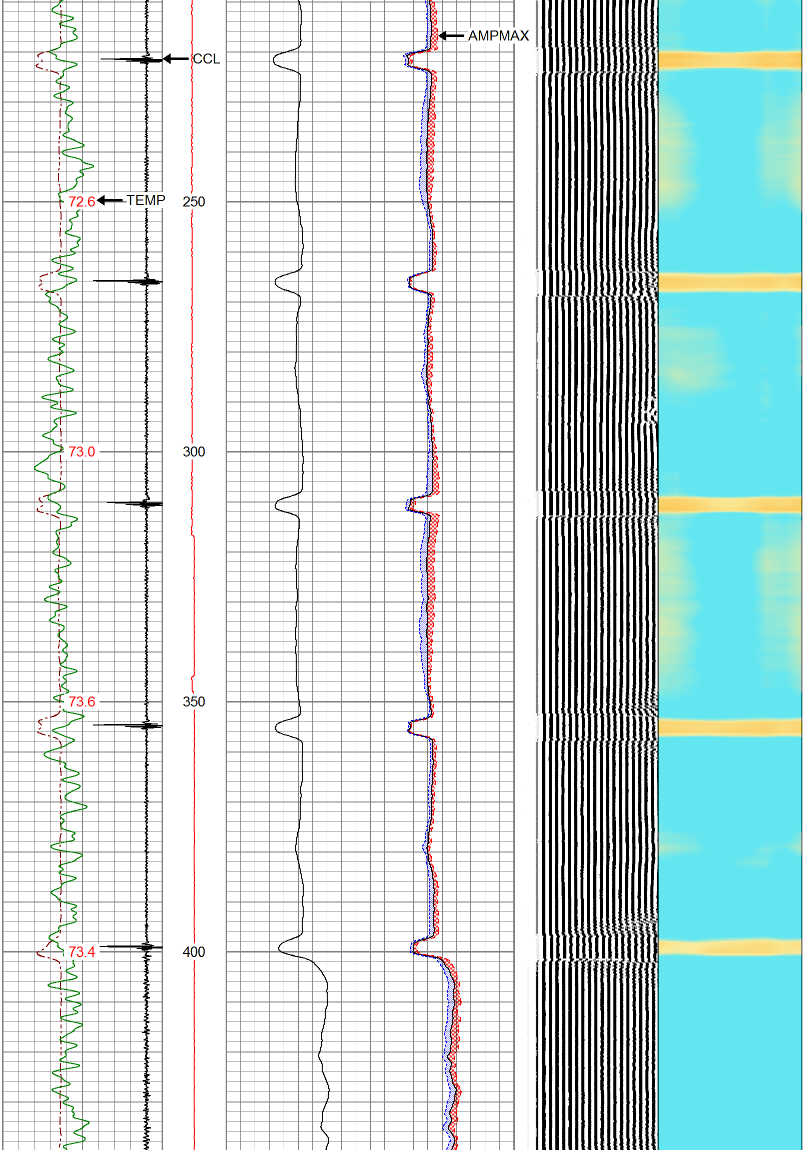
MAIN LOG

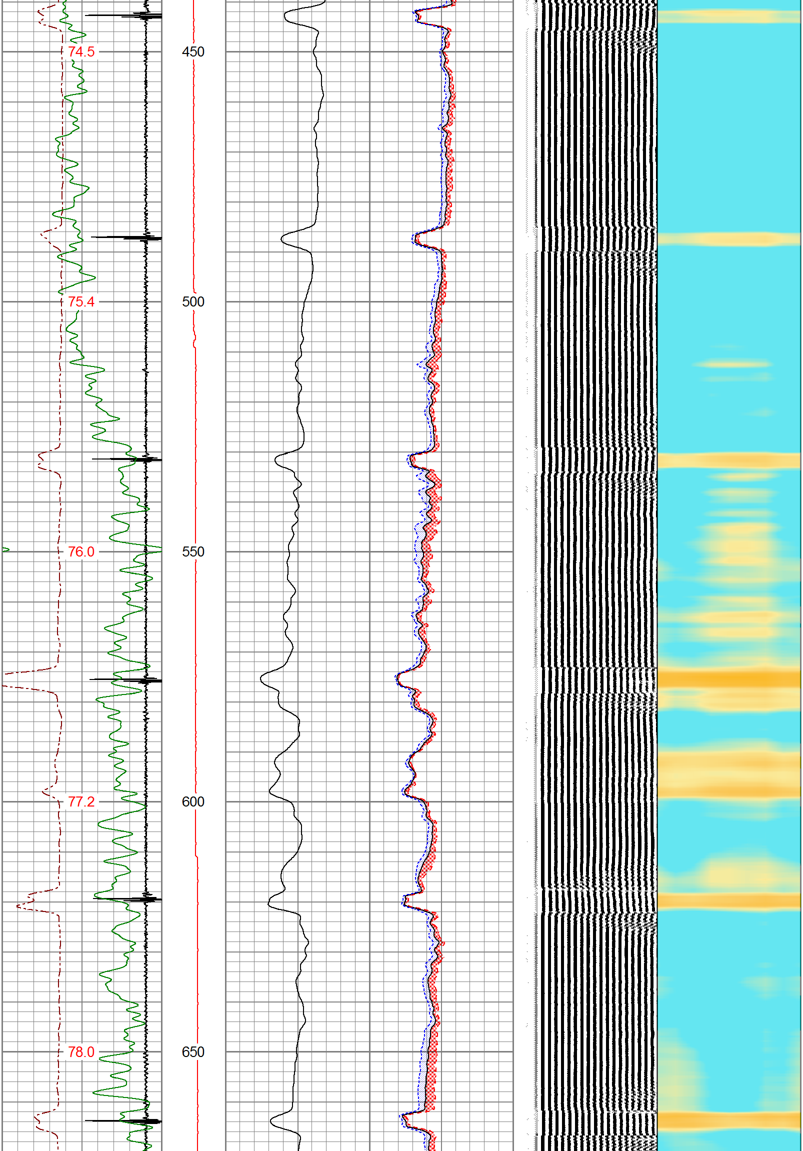
ZERO PSI APPLIED AT SURFACE

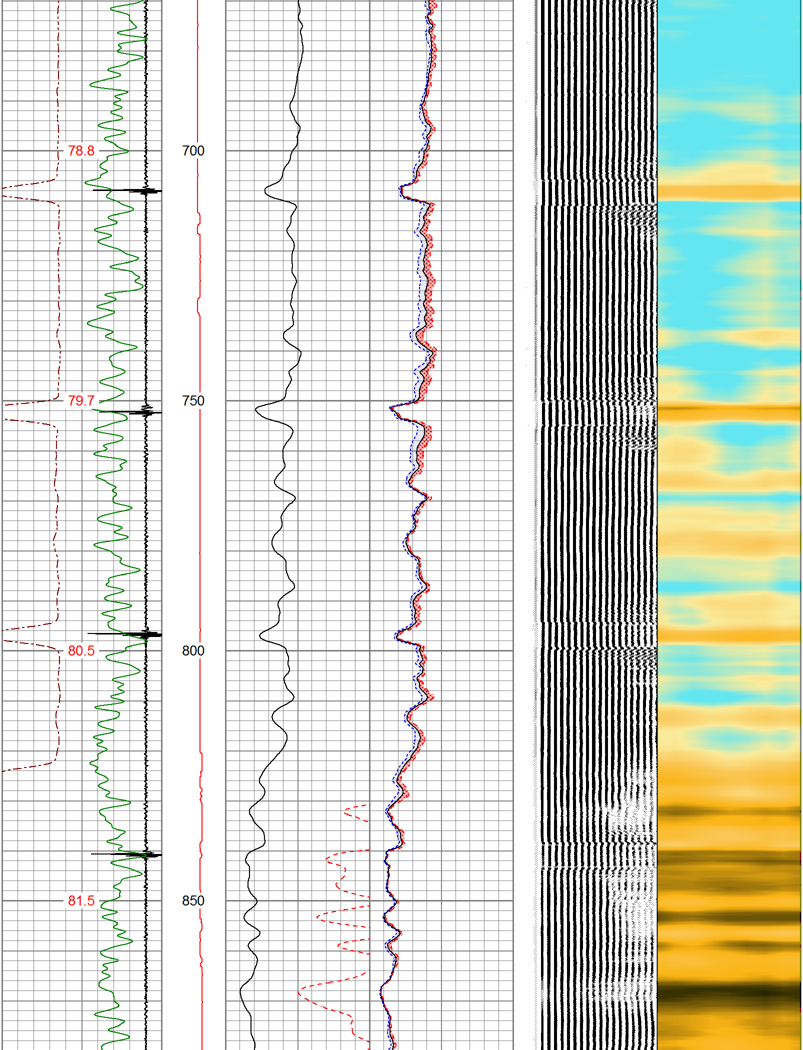
Database File	oxy_mead place 13-22_0512330071_rcbl_09132024.db
Dataset Pathname	pass3
Presentation Format	pinr_scbl
Dataset Creation	Fri Sep 13 15:27:53 2024
Charted by	Depth in Feet scaled 1:240

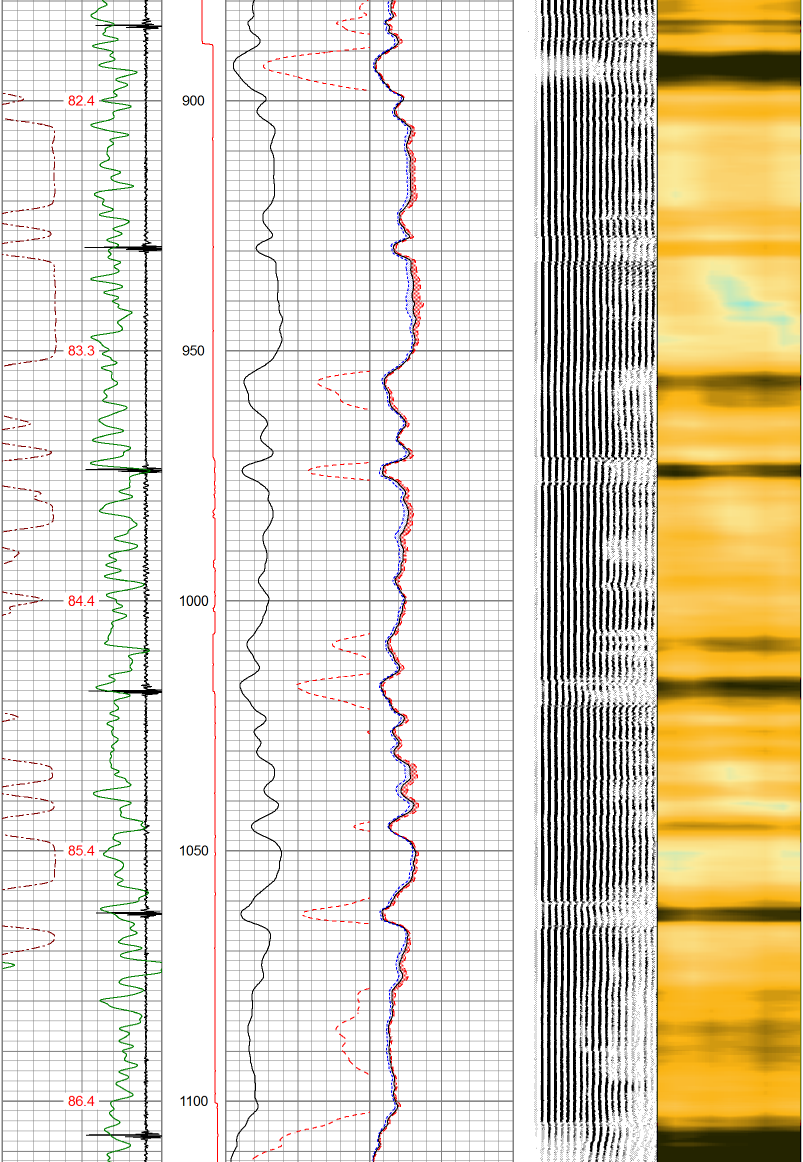
3Ft Travel Time 275 (usec) 175 -9 Collar Locator 1 Gamma Ray 0 (GAPI) 150 TEMP (degF)	LineTensior (lb) 0 500	3' Amplitude 0 (mV) 100 3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Average 0 150 Sector Amplitude Maximum 0 150 Sector Amplitude Minimum 0 150	200 VDL (usec) 1200	1 Sector Map 8

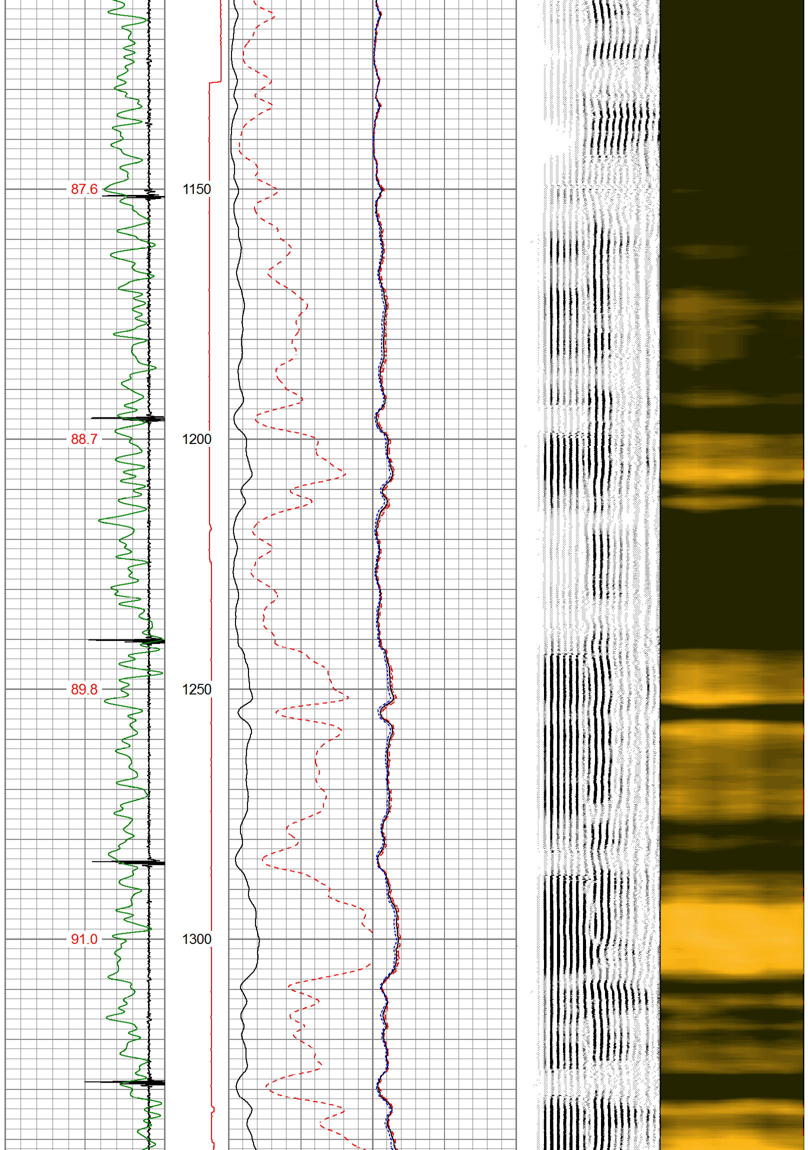


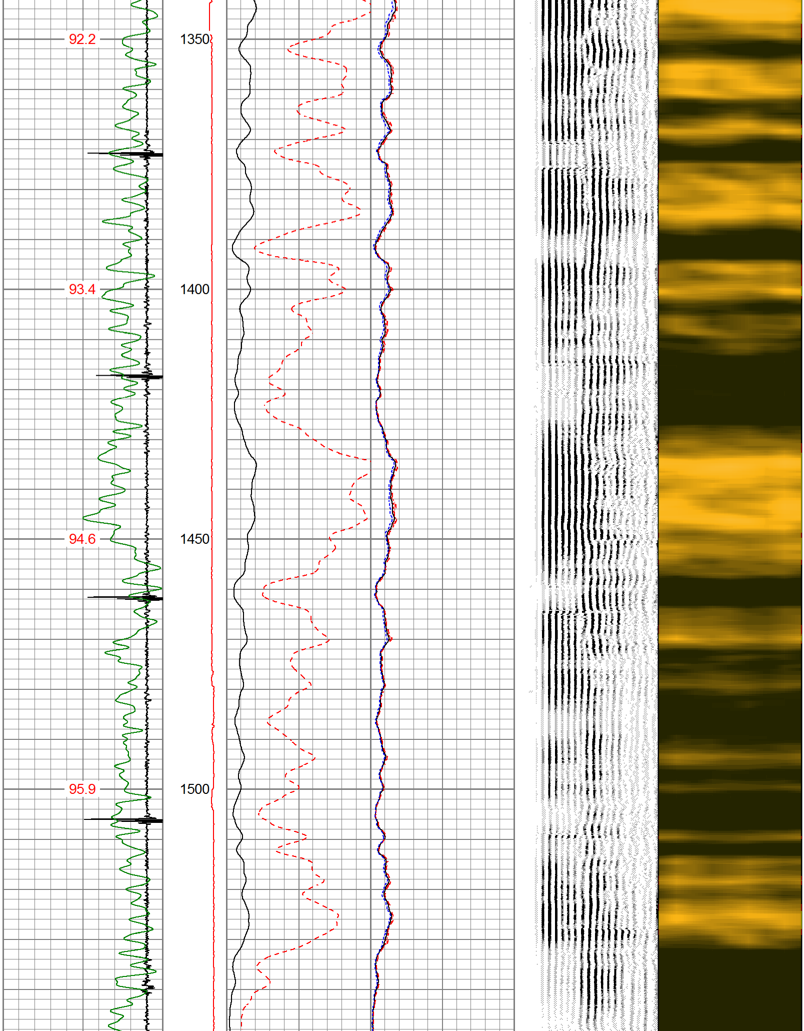


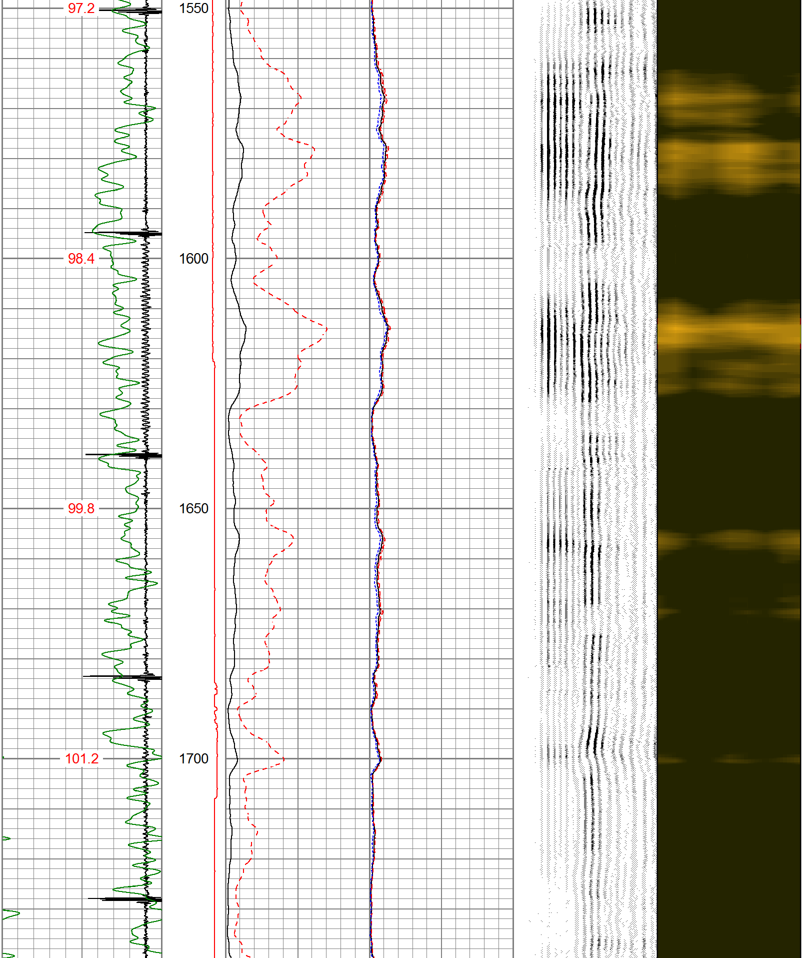


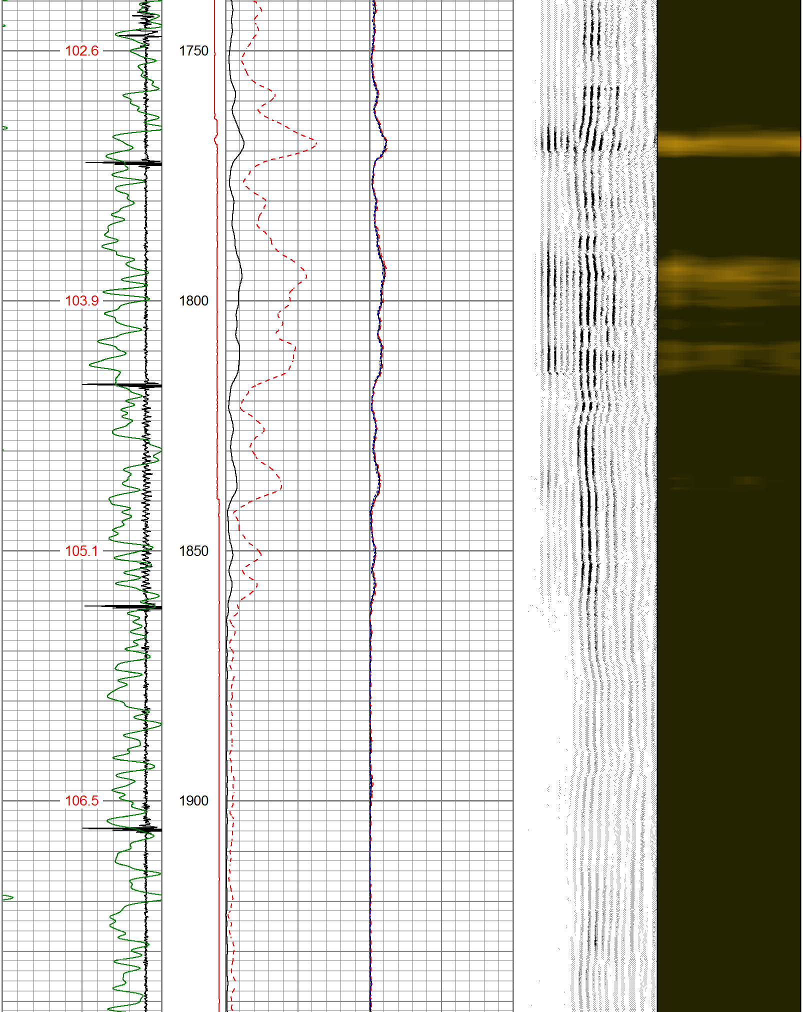


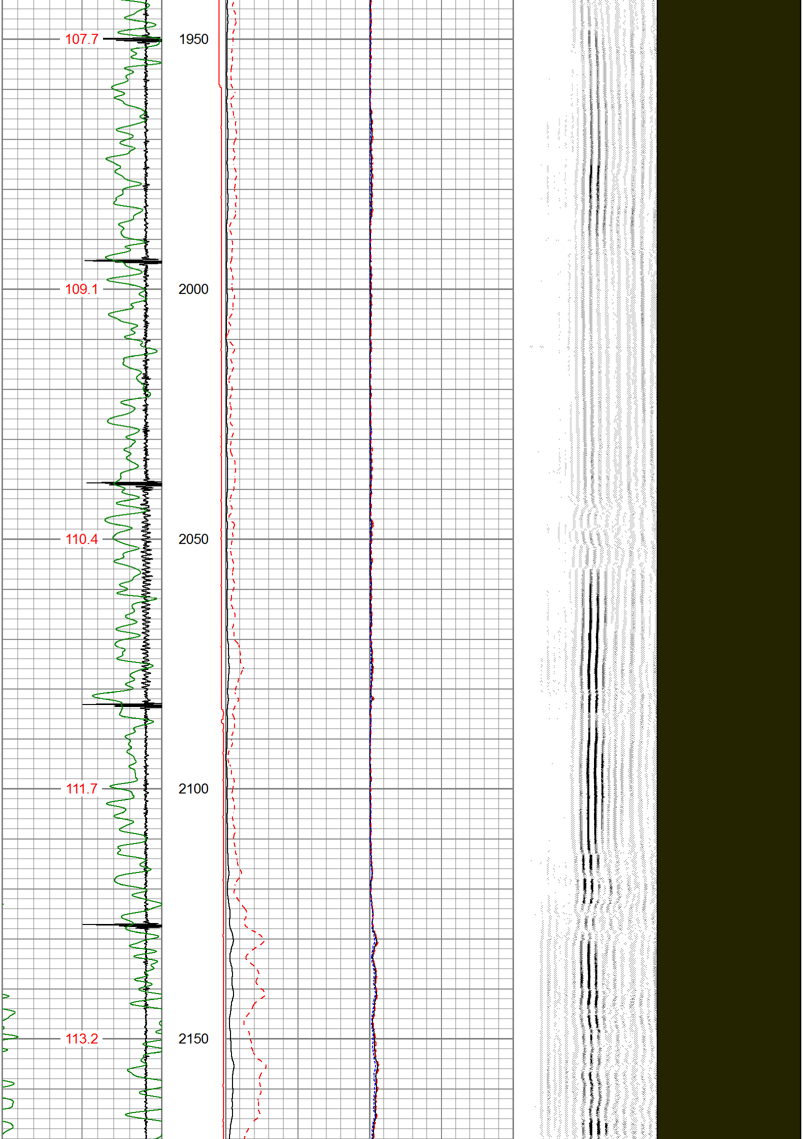


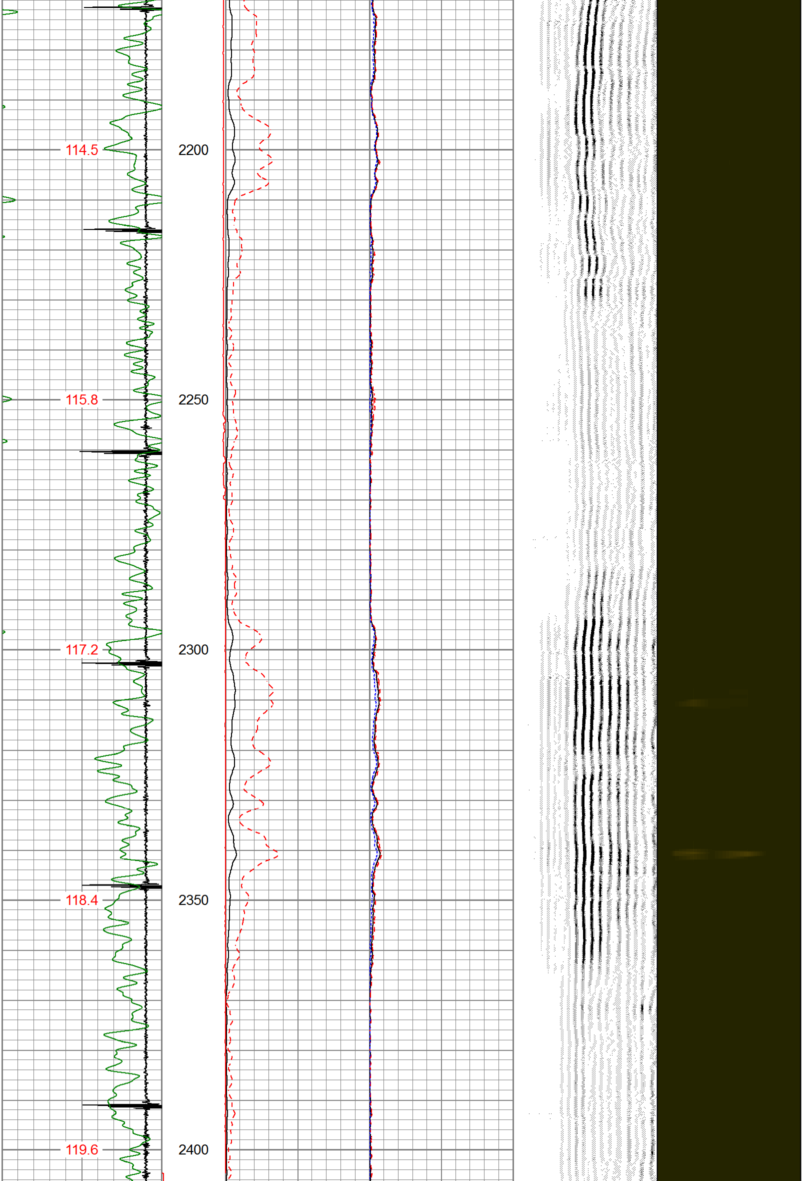


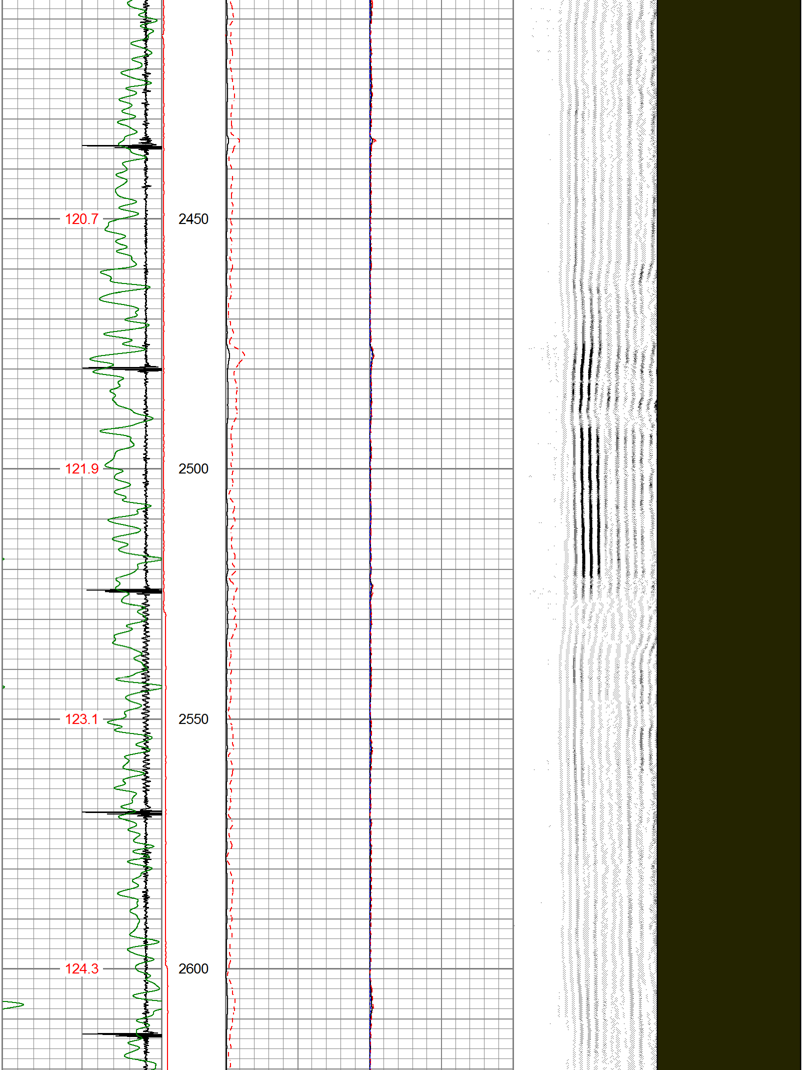


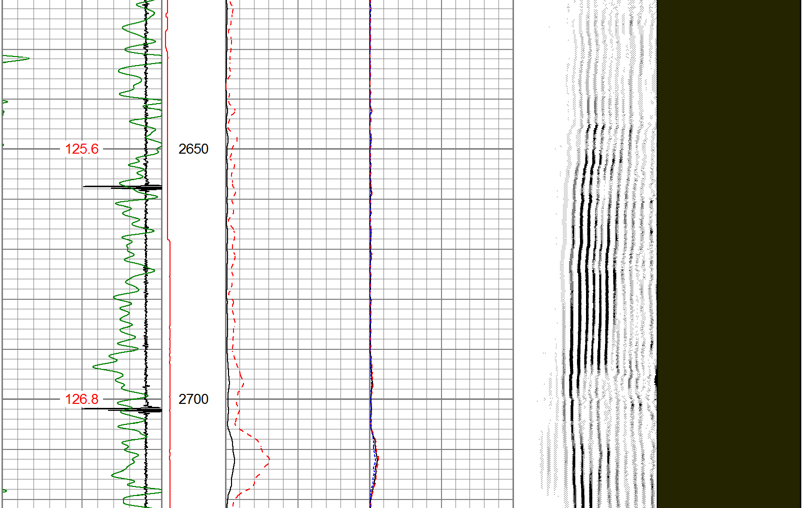


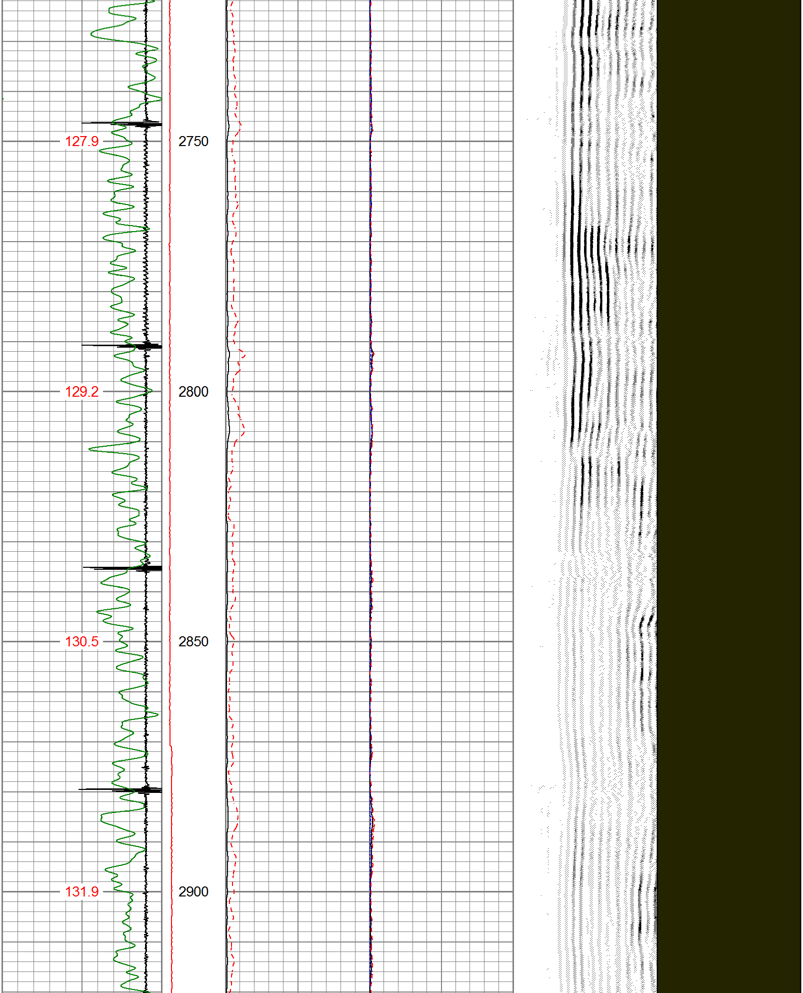


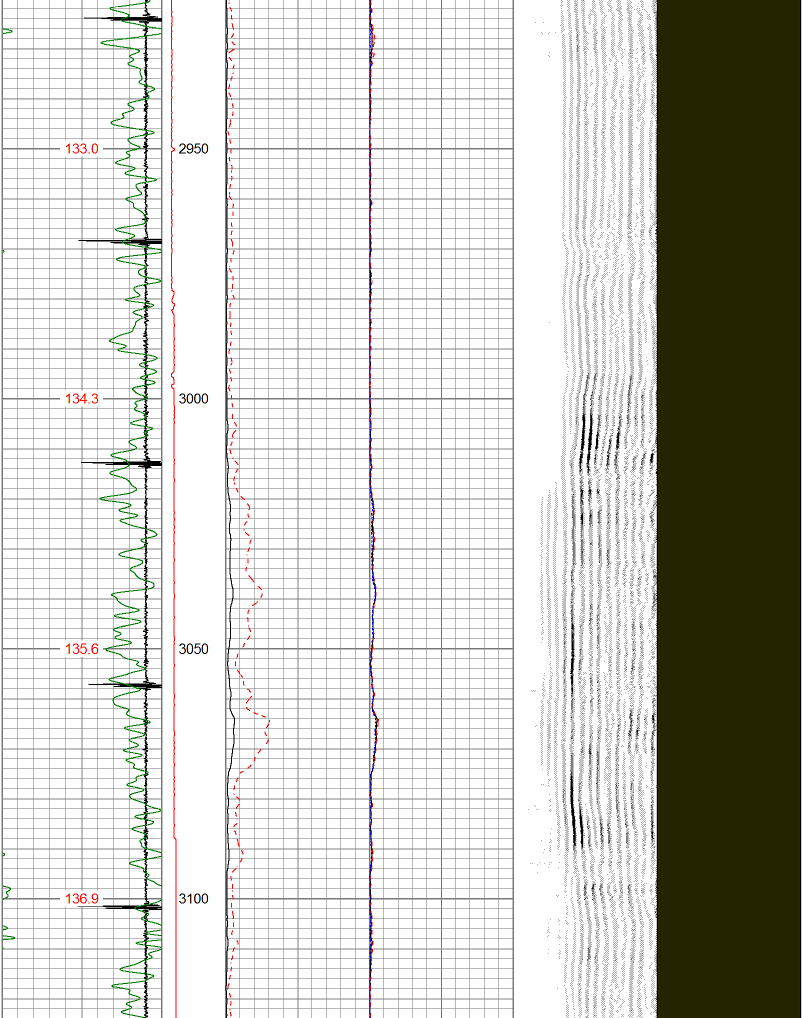


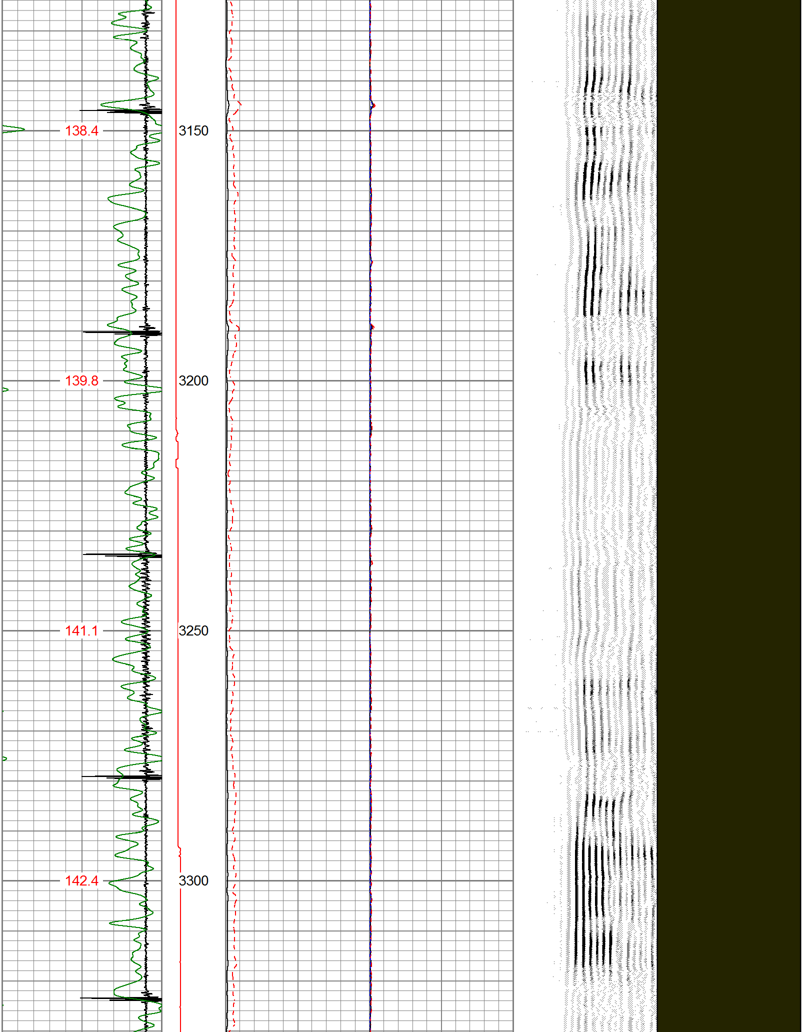


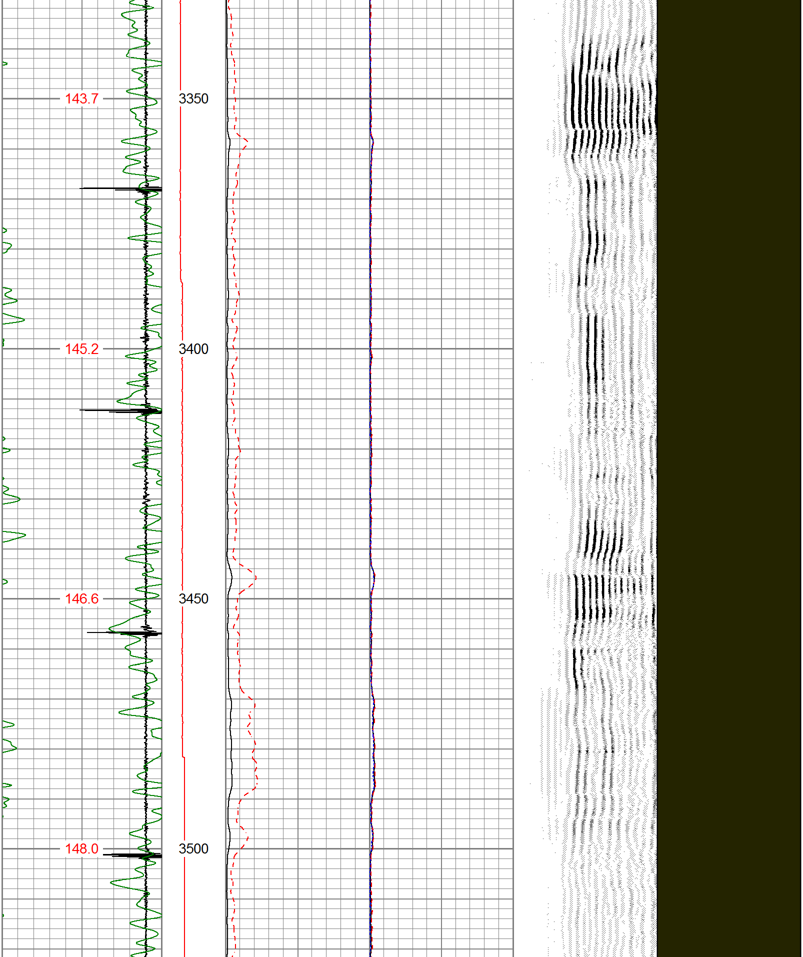


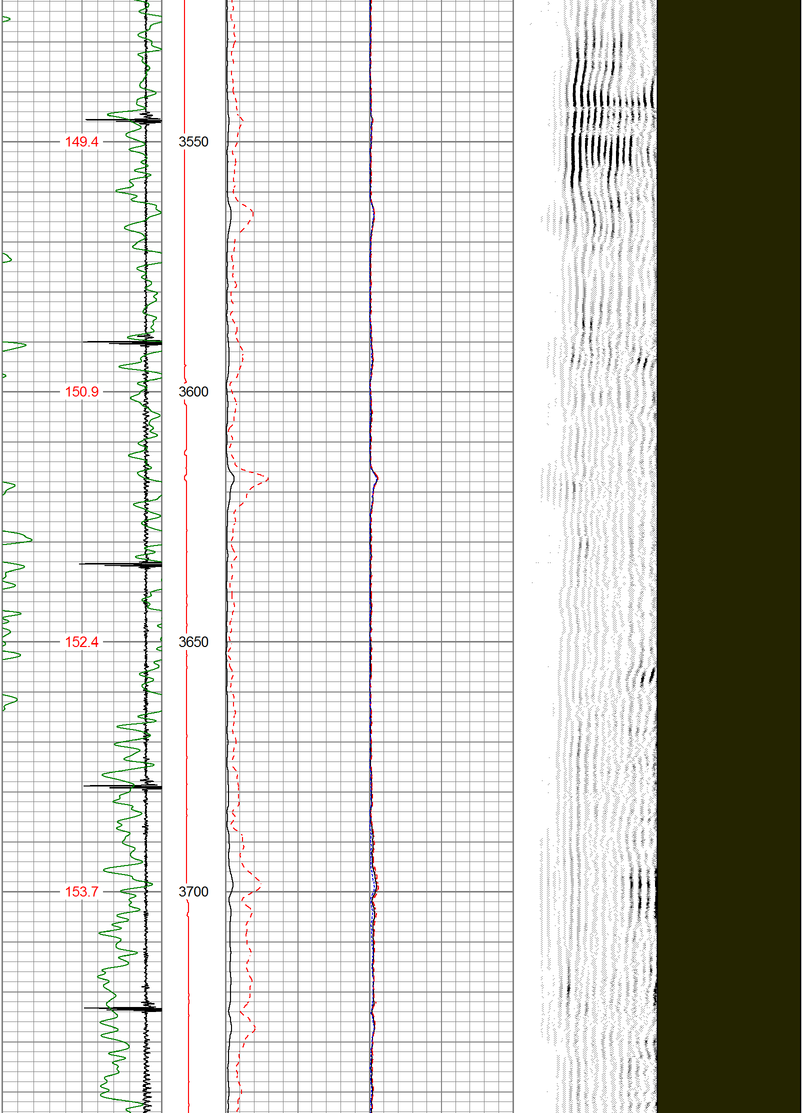


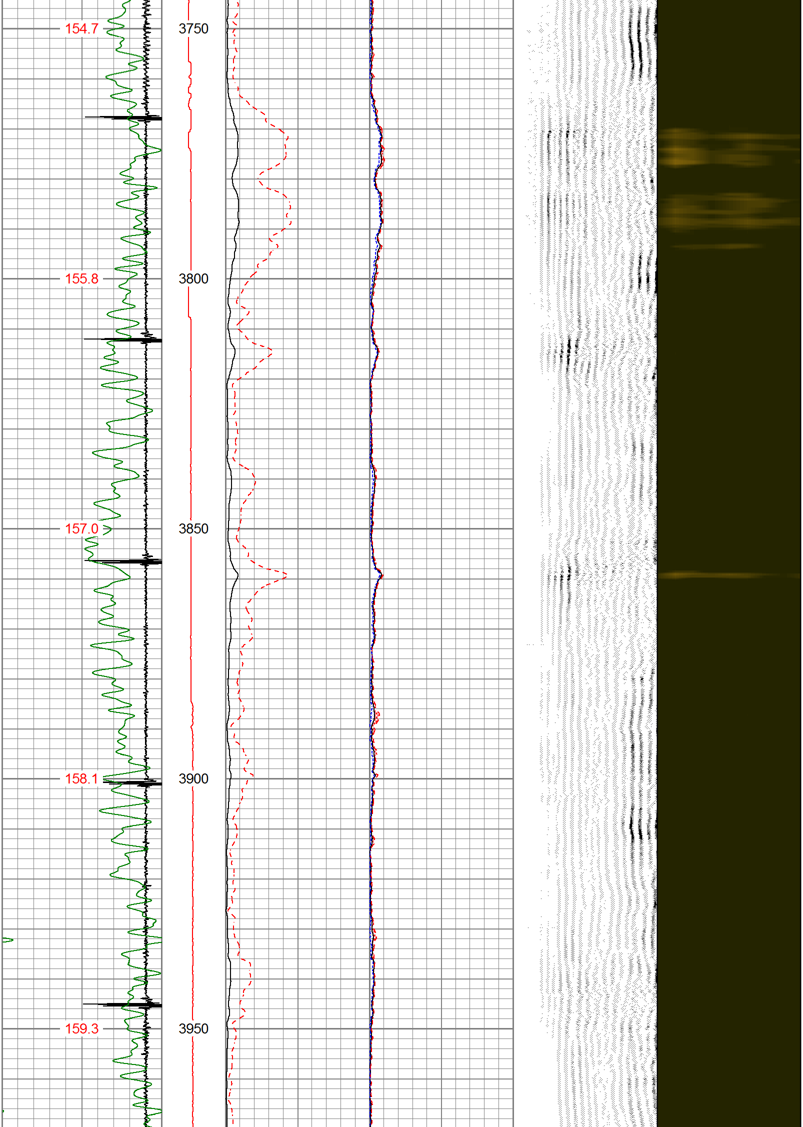


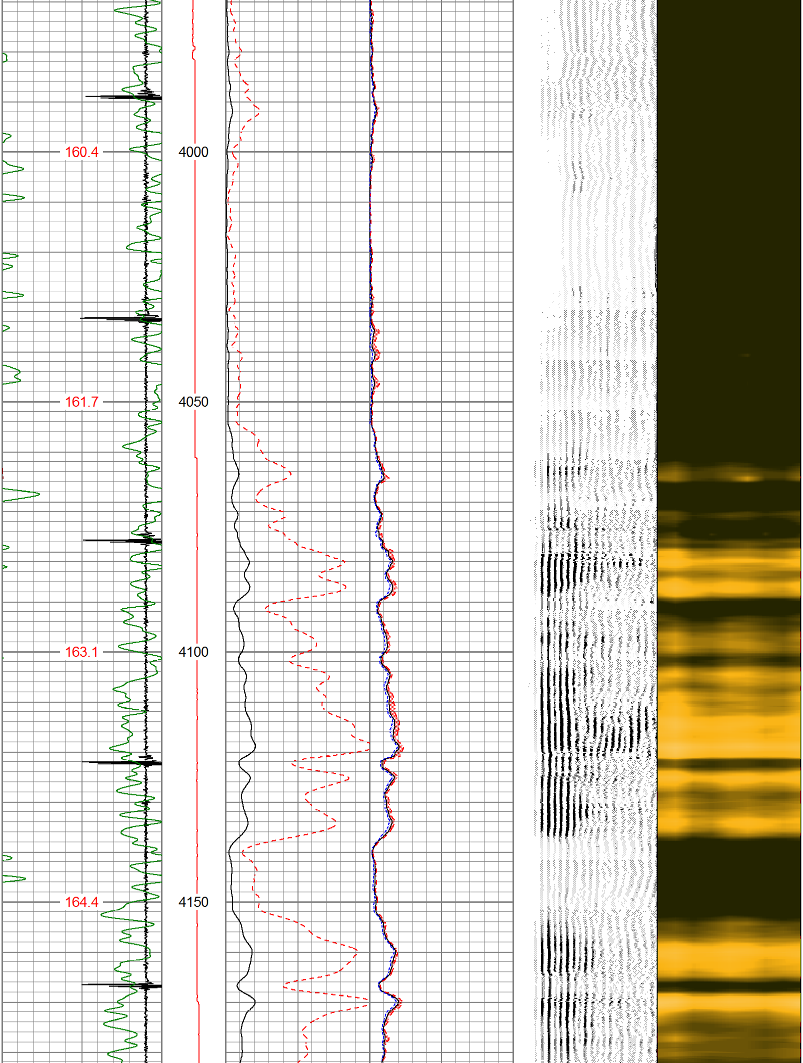


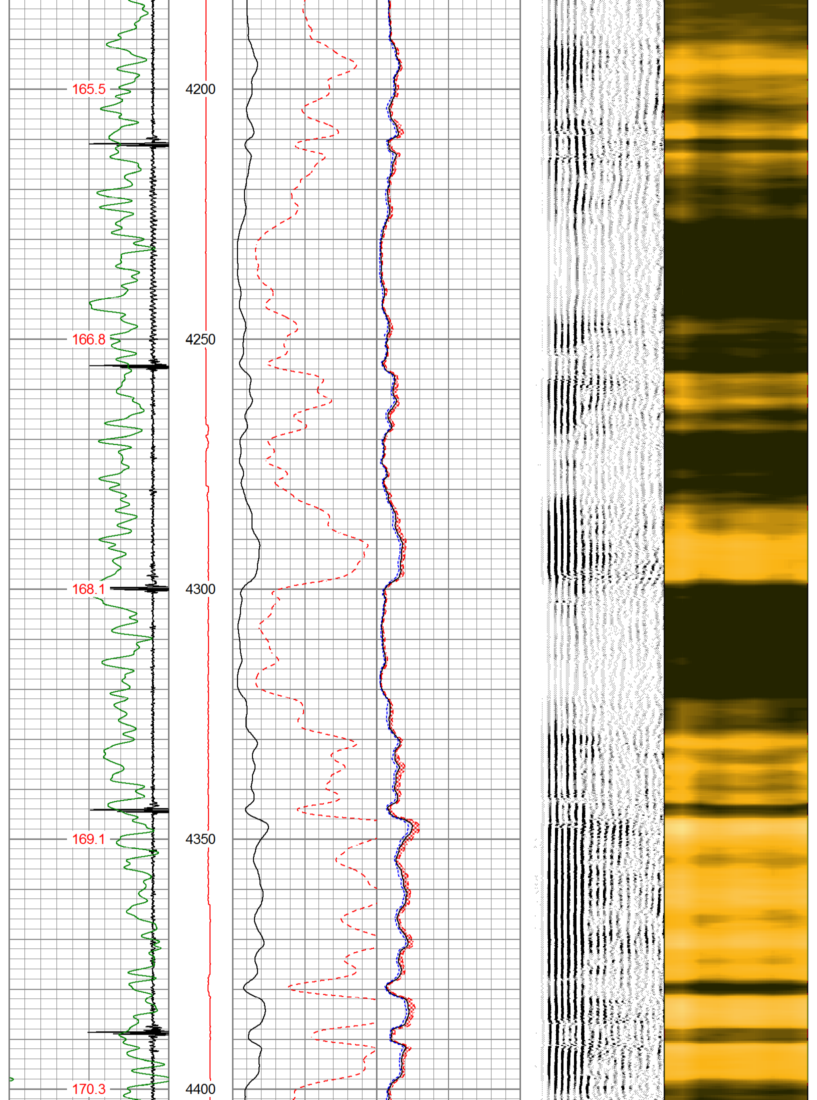


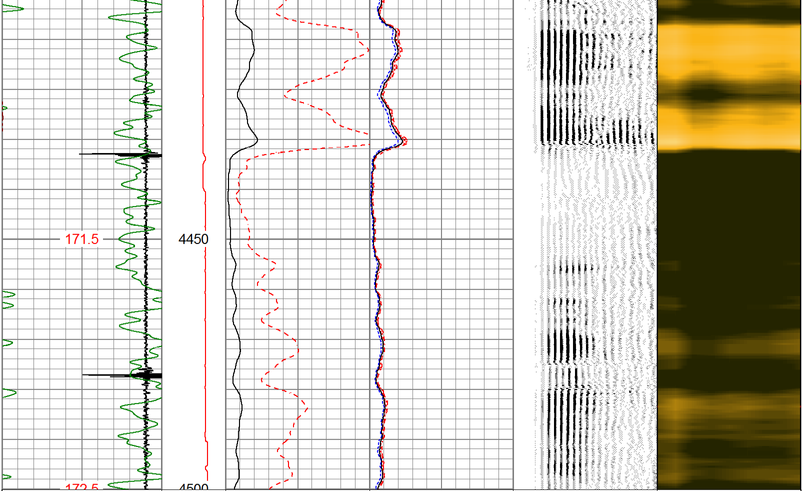












3Ft Travel Time
275 (usec) 175
-9 Collar Locator 1
Gamma Ray
0 (GAPI) 150
TEMP
(degF)

ineTensior
(lb)
0 500

3' Amplitude
0 (mV) 100
3' Amplified Amplitude X 5
0 (mV) 20

Sector Amplitude Average
0 150
Sector Amplitude Maximum
0 150
Sector Amplitude Minimum
0 150

200 VDL (usec) 1200

1 Sector Map 8

AXIS
ENERGY SERVICES

REPEAT SECTION

ZERO PSI APPLIED AT SURFACE

Database File	oxy_mead place 13-22_0512330071_rcbl_09132024.db
Dataset Pathname	pass2
Presentation Format	pinr_scbl
Dataset Creation	Fri Sep 13 15:22:47 2024
Charted by	Depth in Feet scaled 1:240

3Ft Travel Time
275 (usec) 175
-9 Collar Locator 1
Gamma Ray
0 (GAPI) 150
TEMP
(degF)

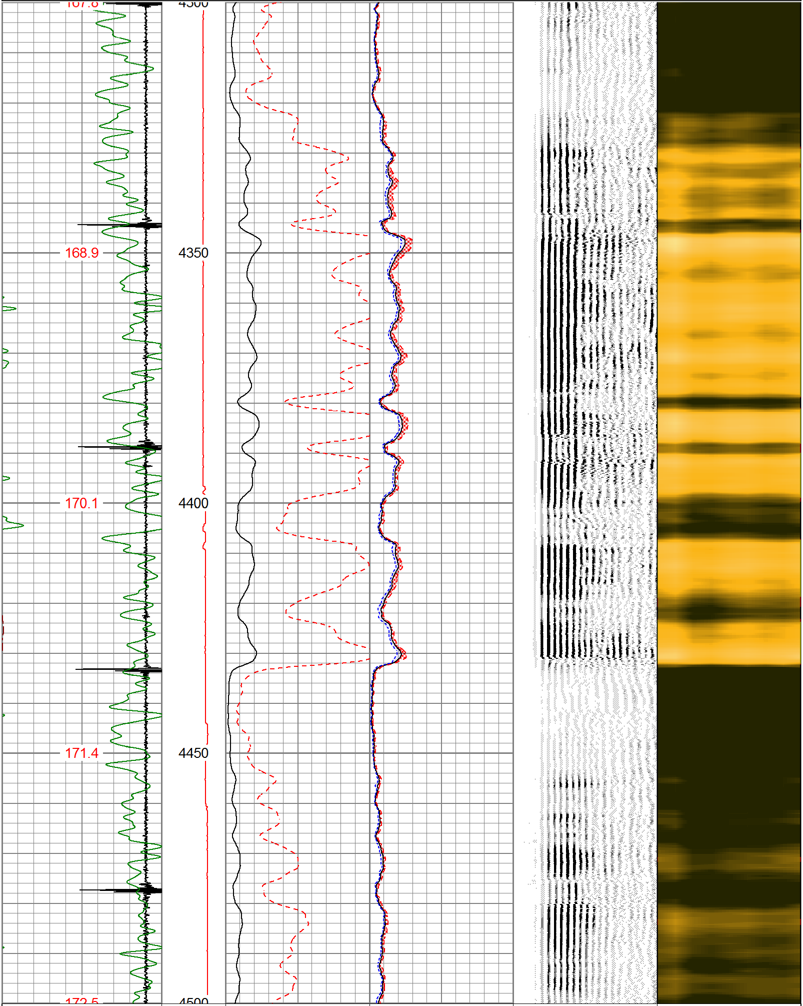
ineTensior
(lb)
0 500

3' Amplitude
0 (mV) 100
3' Amplified Amplitude X 5
0 (mV) 20

Sector Amplitude Average
0 150
Sector Amplitude Maximum
0 150
Sector Amplitude Minimum
0 150

200 VDL (usec) 1200

1 Sector Map 8



3Ft Travel Time
275 (usec) 175

-9 Collar Locator 1

Gamma Ray
0 (GAPI) 150

TEMP
(degF)

LineTension
(lb)
0 500

3' Amplitude
0 (mV) 100

3' Amplified Amplitude X 5
0 (mV) 20

Sector Amplitude Average
0 150

Sector Amplitude Maximum
0 150

Sector Amplitude Minimum

200 VDL (usec) 1200

1 Sector Map 8

0 150

Calibration Report

Database File	oxy_mead place 13-22_0512330071_rcbl_09132024.db
Dataset Pathname	pass2
Dataset Creation	Fri Sep 13 15:22:47 2024

Gamma Ray Calibration Report

Serial Number:	070529	
Tool Model:	275 Probe GR-CCL	
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:	070641	
Tool Model:	RBL-DCT	
Calibration Casing Diameter:	4.500	in
Calibration Depth:	0.017	ft

Master Calibration, performed Fri Sep 13 14:56:55 2024:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	0.009	1.177	0.700	81.196	68.902	0.097
CAL	1.233	1.234				
5'	0.008	0.598	0.700	81.196	136.496	-0.383
SUM						
S1	0.005	1.113	0.000	100.000	90.229	-0.420
S2	0.007	1.176	0.000	100.000	85.510	-0.570
S3	0.007	1.230	0.000	100.000	81.794	-0.601
S4	0.007	1.244	0.000	100.000	80.830	-0.553
S5	0.008	1.239	0.000	100.000	81.228	-0.611
S6	0.008	1.251	0.000	100.000	80.418	-0.608
S7	0.007	1.230	0.000	100.000	81.765	-0.538
S8	0.008	1.061	0.000	100.000	95.035	-0.805

Air Zero Calibration, performed Fri Sep 13 14:56:01 2024:

	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: 070641
Tool Model: RBL-DCT
Performed: (Not Performed)

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

Gain: 1.00
Offset: 0.00
Delta Spacing 1

AXIS
ENERGY SERVICES

Company	ANADARKO PETROLEUM COMPANY
Well	MEAD PLACE 13-22
Field	WATTENBERG
County	WELD
State	COLORADO