Comp. SANDRIDGE
Well PINTAIL_SWD_0780_2-16D
Field N_PARK_HORIZ_NBRR
Par. JACKSON
State CO

PIONEER
Pioneer Energy Services

RADIAL BOND LOG WITH GAMMA RAY NEUTRON

Company	**SANDRIDGE**		
Well	**PINTAIL_SWD_0780_2-16D**		
Field	**N_PARK_HORIZ_NBRR**		
Parish	**JACKSON**	State	**CO**

Location: API # : 505706566
SEC 16 TWP 7N RGE 80W

Other Services
CCL
TEMP

Permanent Datum	GL_8139'	Elevation	8139'
Log Measured From	KB 8162'	Above Perm. Datum	
Drilling Measured From	8162'		

Elevation	
K.B.	8162'
D.F.	8162'
G.L.	8139'

Date of Service	2-18-2018		
Run Number	1		
Depth Driller or PBTD	10698'		
Depth Logger	9853'		
Bottom Log Interval	9853'		
Top Log Interval	0'		
Open Hole Size	8.75"		
Type Fluid	H2O		
Fluid Level	SURFACE		
Fluid Density	N/A		
Max. Recorded Temperature	293.5 DEG. F		
Max. Wellhead Pressure	0		
Wellhead Connection	7-1/16" 5K		
Estimated Cement Top	2319'		
Unit Number	P-82		
Wireline Size	9/32"		
Location	CASPER		
Recorded By	ZACH MAGNER		
Witnessed By	SHAWN SANDERS		

	Size	Wt/Ft	Top	Bottom
Tubing Record	N/A	N/A	N/A	N/A
Surface Casing	9.625"	36#	0'	2318'
Production Casing	7"	26#	0'	10698'
Liner Record	N/A	N/A	N/A	N/A

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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.
CORELATED LOG TO SHORT JOINT AT 9748' AS PER CLIENT REQUEST

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew
Engineer: ZACH MAGNER
Operator: DAN PIERI
Operator: K.C. JUDD
Operator: JOSH HARPER

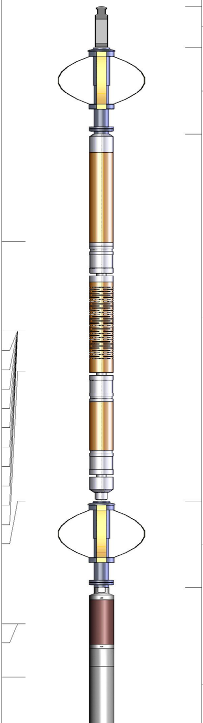
Tool Data - Services	Serial Number
SCBL-TEMP	FW1403-68
GAMMA-CCL	FW1404-112

Log Variables

Database C:\ProgramData\Warrior\Data\sandridge_pintail_swd_0708_2-16d.db
Dataset field/well/run1/pass1.19/_vars_

Top - Bottom

BHTEMP_Src TEMP	CMTTKCOR On	CSTKCOR On	SZCOR On	CASED? Yes	NPORSEL Limestone	CMNTTHCK in 0
PPT usec 0	CASEWGHT lb/ft 26	MAXAMPL mV 0	MINAMPL mV 1	MINATTN db/ft 0.08	SRFTEMP degF 0	CASETHCK in 0.326
CASEOD in 7	PERFS 0	TDEPTH ft 0	BOTTEMP degF 100	BOREID in 7.875		



Sensor	Offset (ft)
TEMP	18.73
WVFS8	16.50
WVFS7	16.50
WVFS6	16.50
WVFS5	16.50
WVFS4	16.50
WVFS3	16.50
WVFS2	16.50
WVFS1	16.50
WVFCAL	16.50
WVF3FT	16.50
WVF5FT	15.50
HEADVOLT	12.25
CCL$2	9.19
CCL$1	9.19
GR	7.85

Description	Length (ft)	O.D. (in)	Weight (lb
Cable Head-Titan 143 1 7/16" Titan Cable Head (1" Fish Top)	1.03	1.43	2.00
Centralizer-275 TekCo 2 3/4" TekCo Centralizer	2.16	2.75	20.00
SCBL-275 Probe w Temp New Mod (FW14[illegible]8) Probe Radii Bond Tool with Temperature	19.17	2.75	95.00
Centralizer-275 TekCo 2 3/4" TekCo Centralizer	2.16	2.75	20.00
GR-GC_6PIN (FW1404-112) Probe 6 Pin GR275-0001 rev.1	4.82	2.75	

		CNT-275BL (120508) Probe 2.75 Digital CNT	5.00	2.75	76.00
CNLSC	2.05				
CNSSC	1.64				
		Bullnose-Titan GO Pin Pressure Cap	0.27	1.38	1.00

Dataset:	sandridge_pintail_swd_0708_2-16d.db: field/well/run1/pass1.19
Total length:	24.61 ft
Total weight:	214.00 lb
O.D.:	2.75 in

Database File	sandridge_pintail_swd_0708_2-16d.db
Dataset Pathname	pass1.19
Presentation Format	pinr_scbl
Dataset Creation	Sun Feb 18 14:37:03 2018
Charted by	Depth in Feet scaled 1:240

3' Travel Time
287 (usec) 187

-9 CCL 1

Gamma Ray
0 (GAPI) 150

TEMP
(degF)

Line Tension
0 (l3000

3' Amplitude
0 (mV) 100

3' Amplified Amplitude X 5
0 (mV) 20

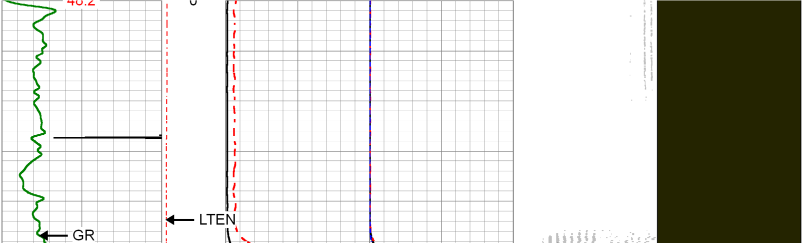
Sector Amplitude Average
0 150

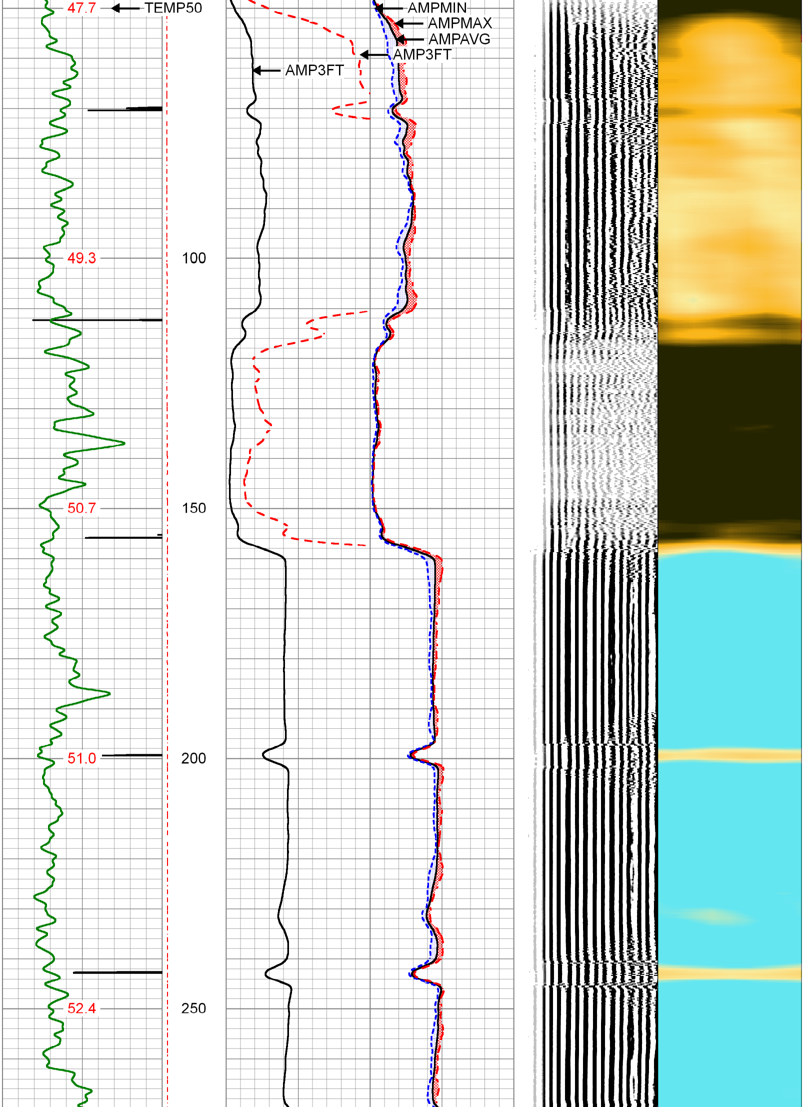
Sector Amplitude Maximum
0 150

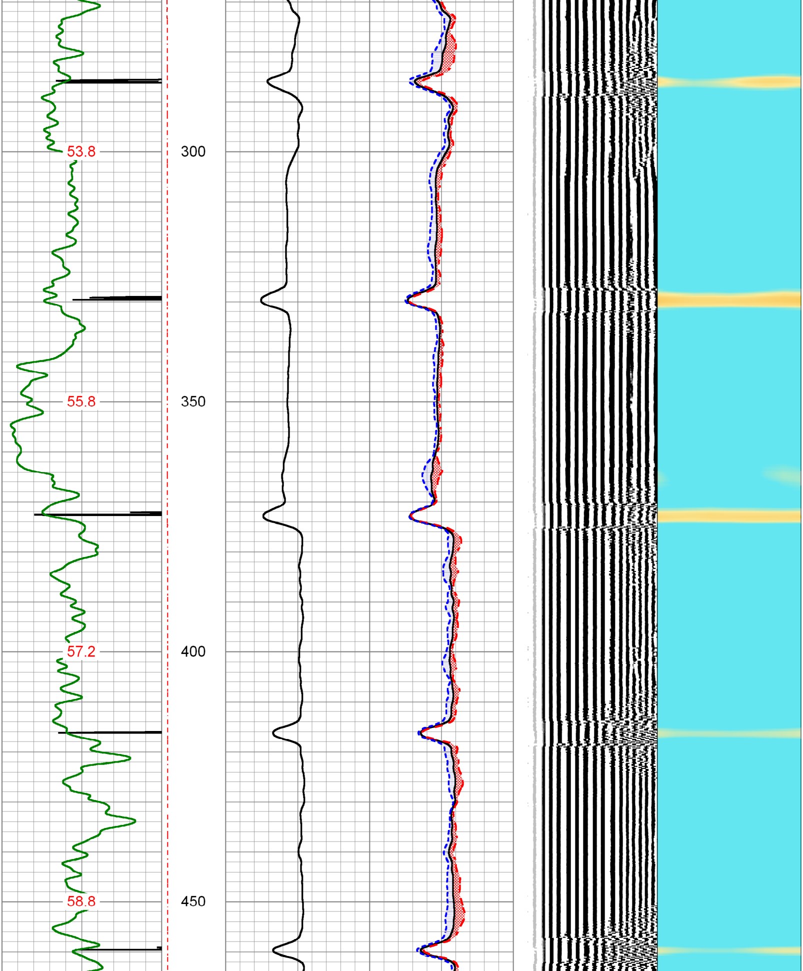
Sector Amplitude Minimum
0 150

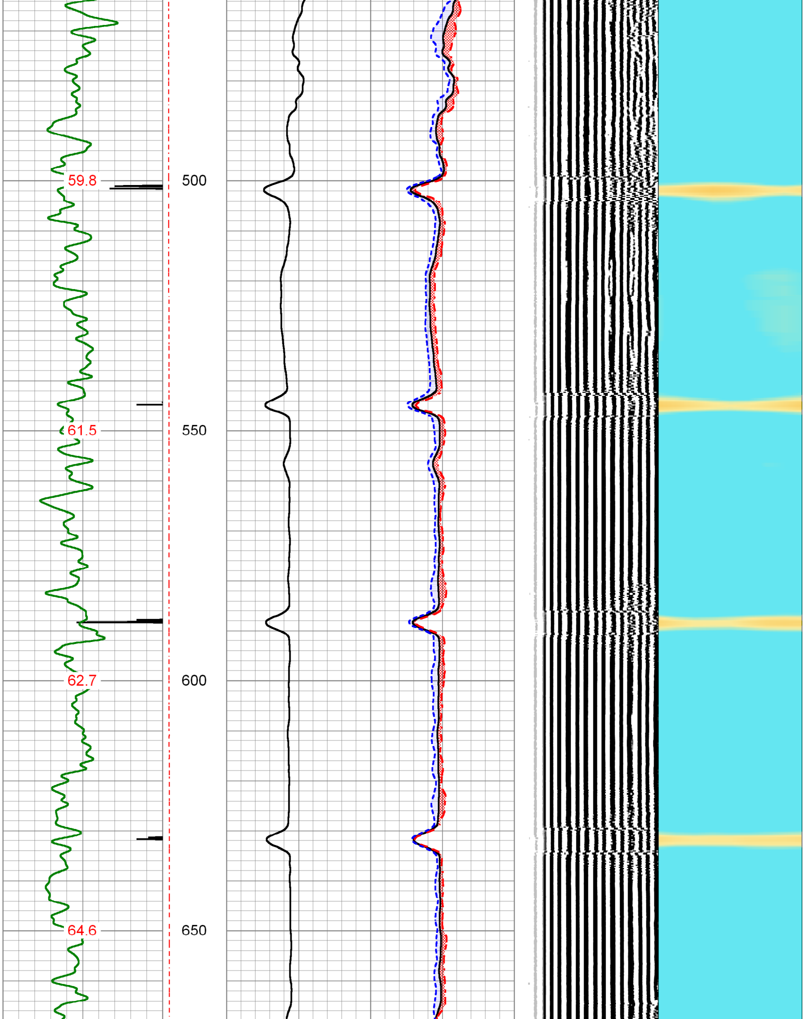
200 VDL 1200

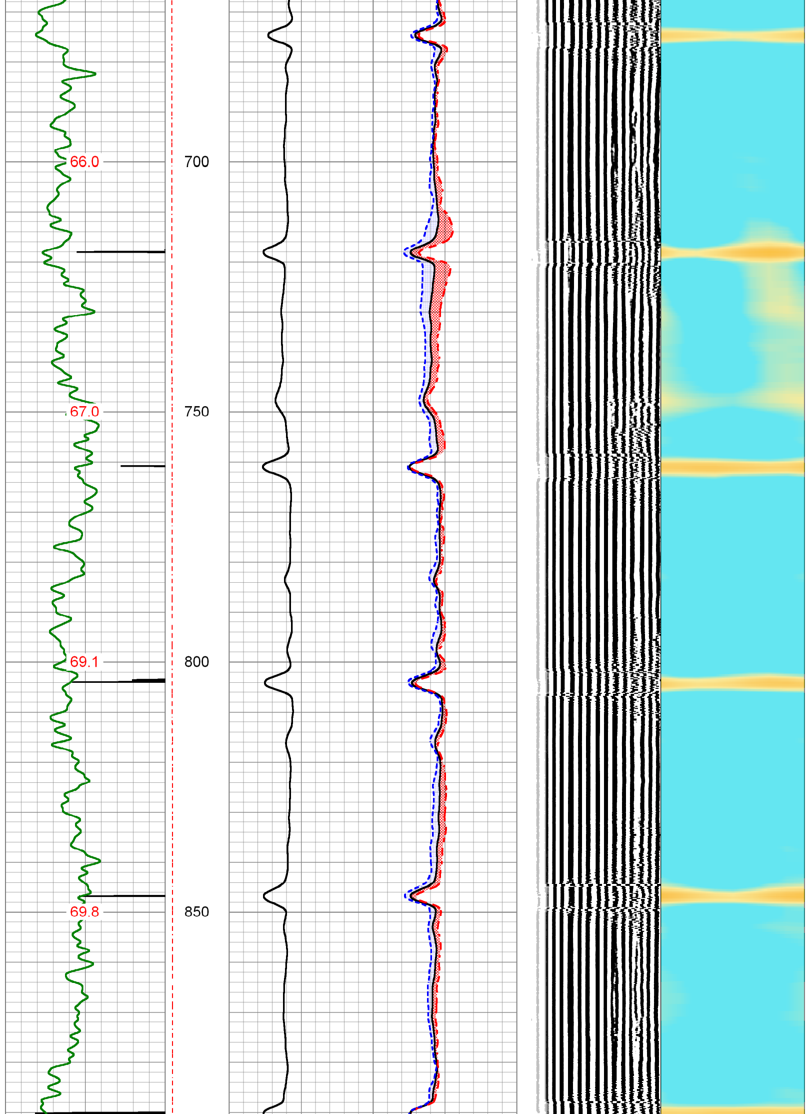
1 Sector Map 8
10 60

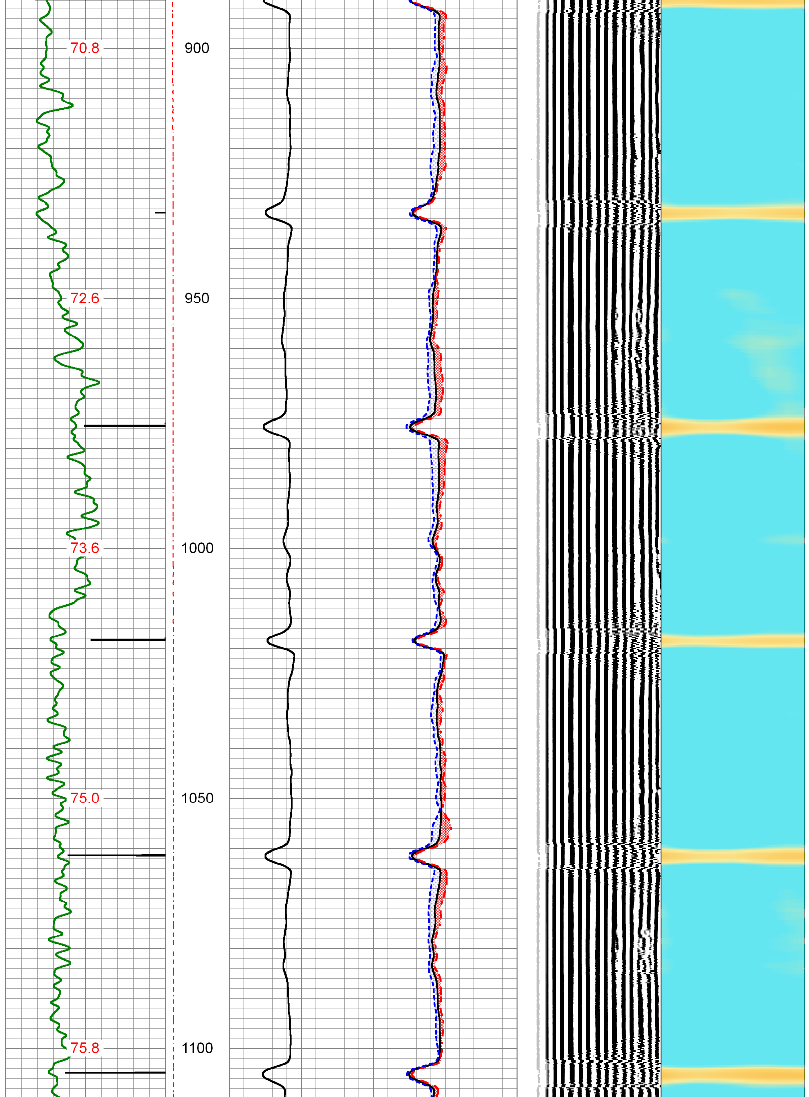


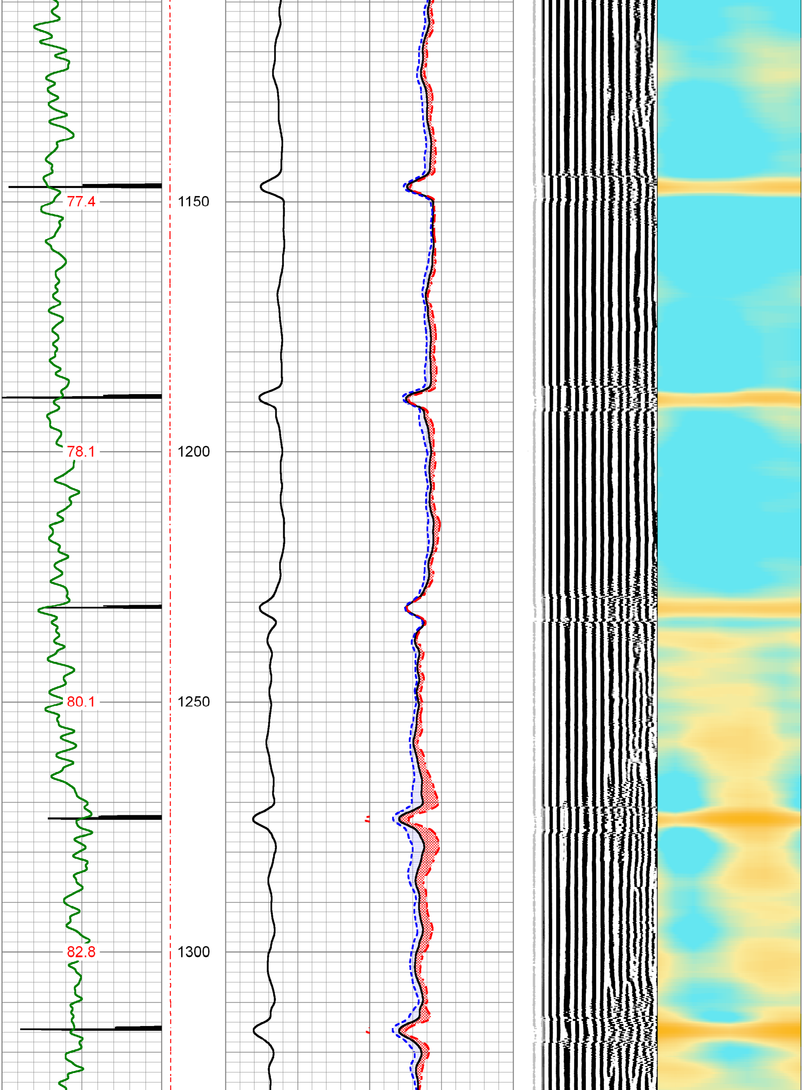


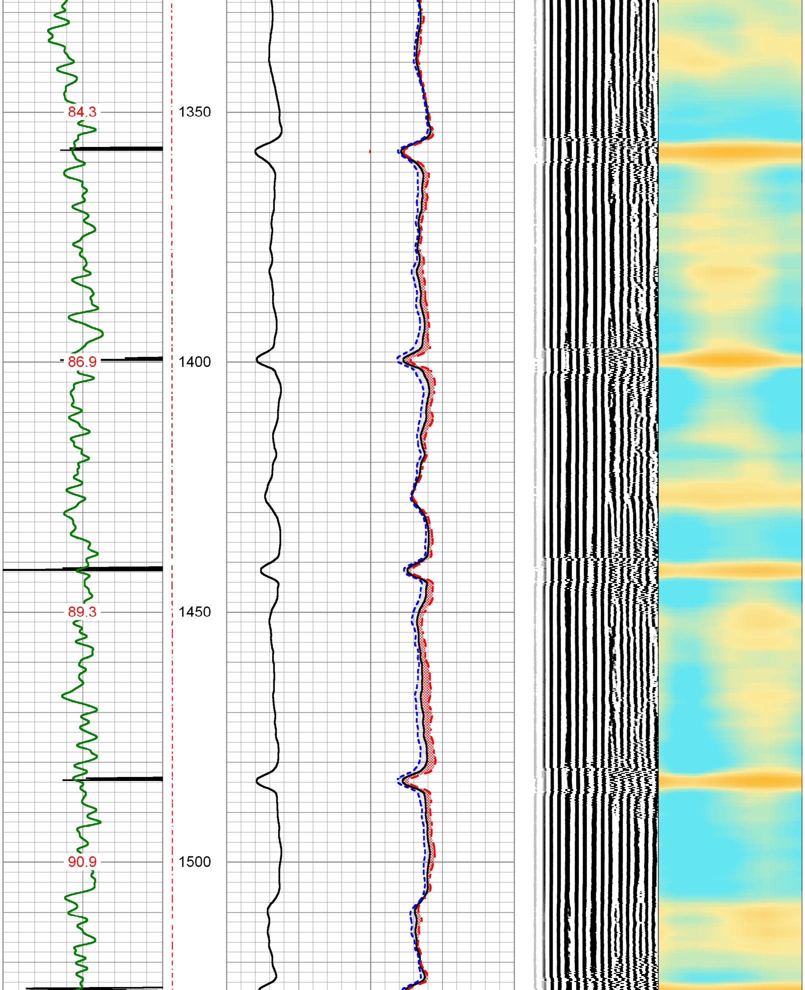


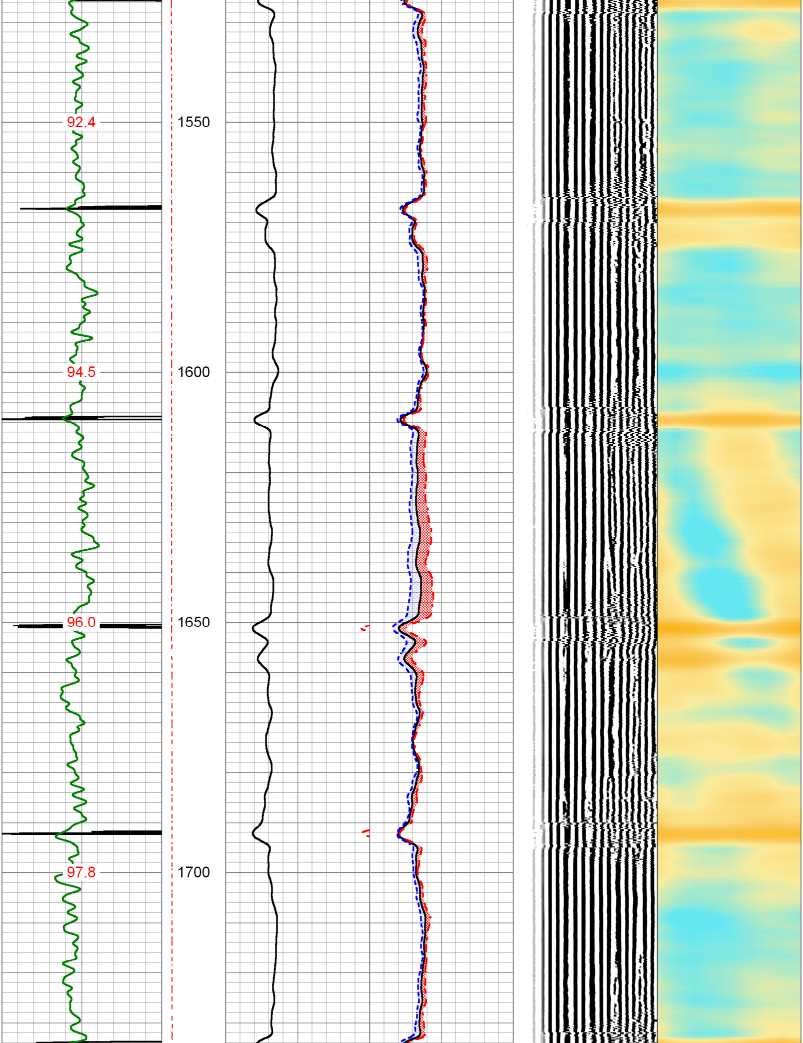


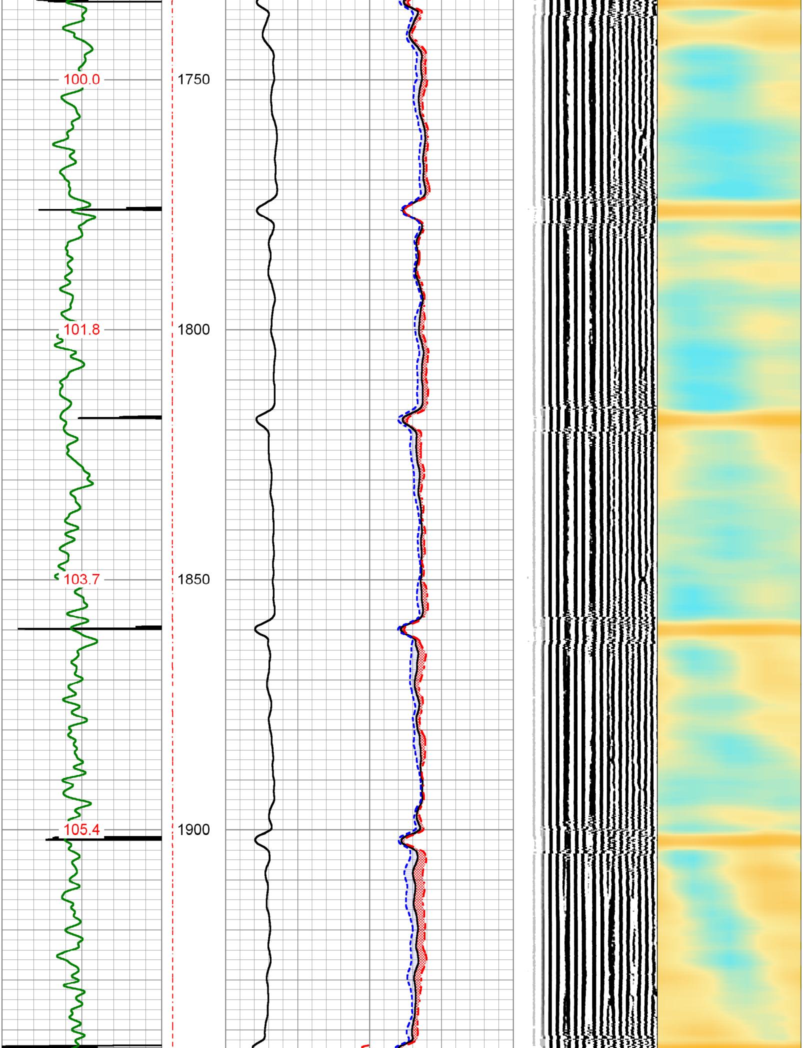


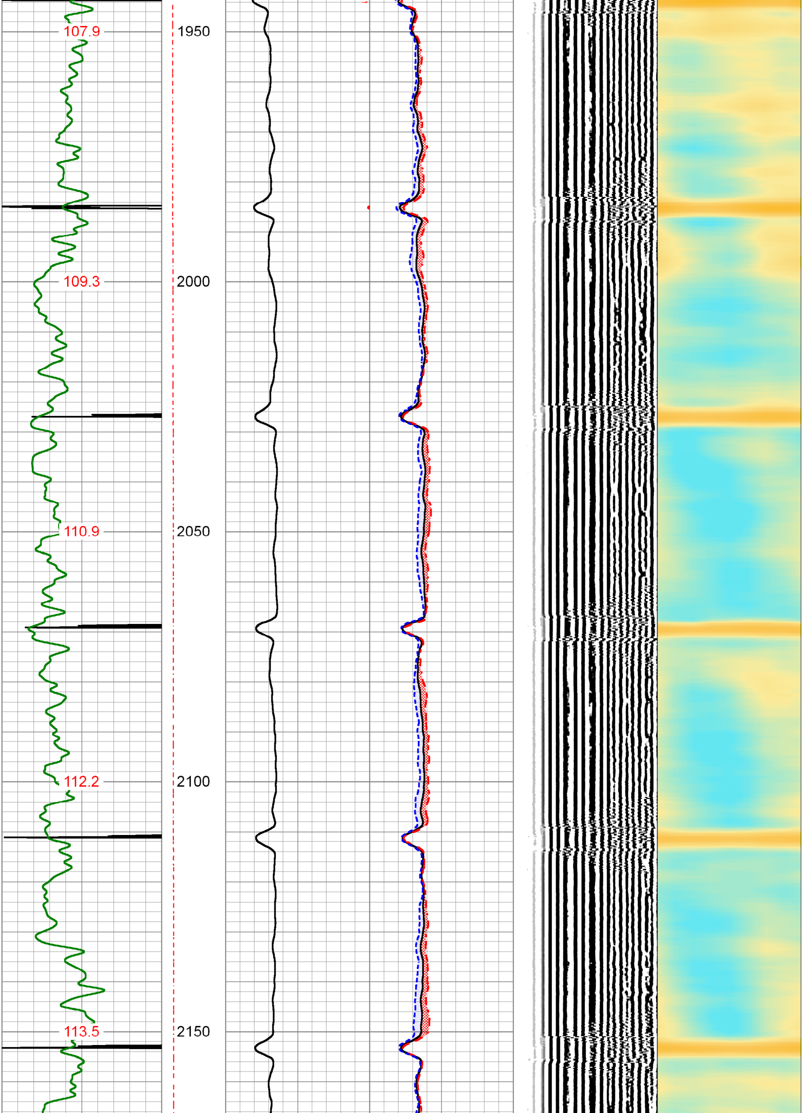


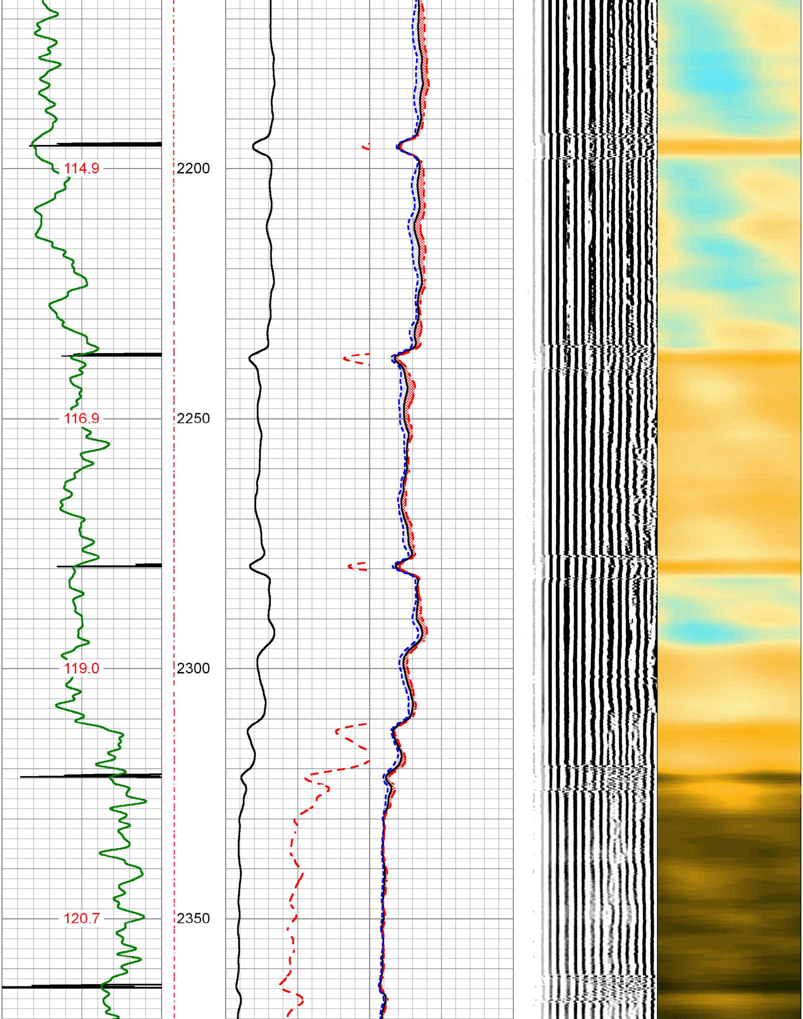


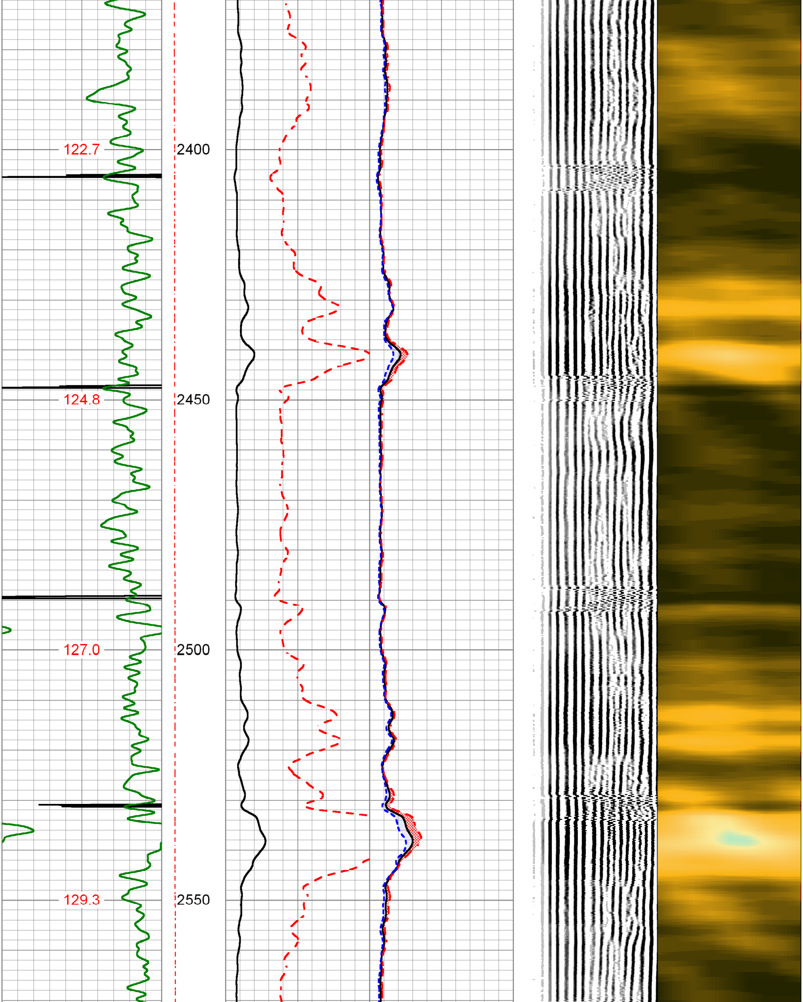


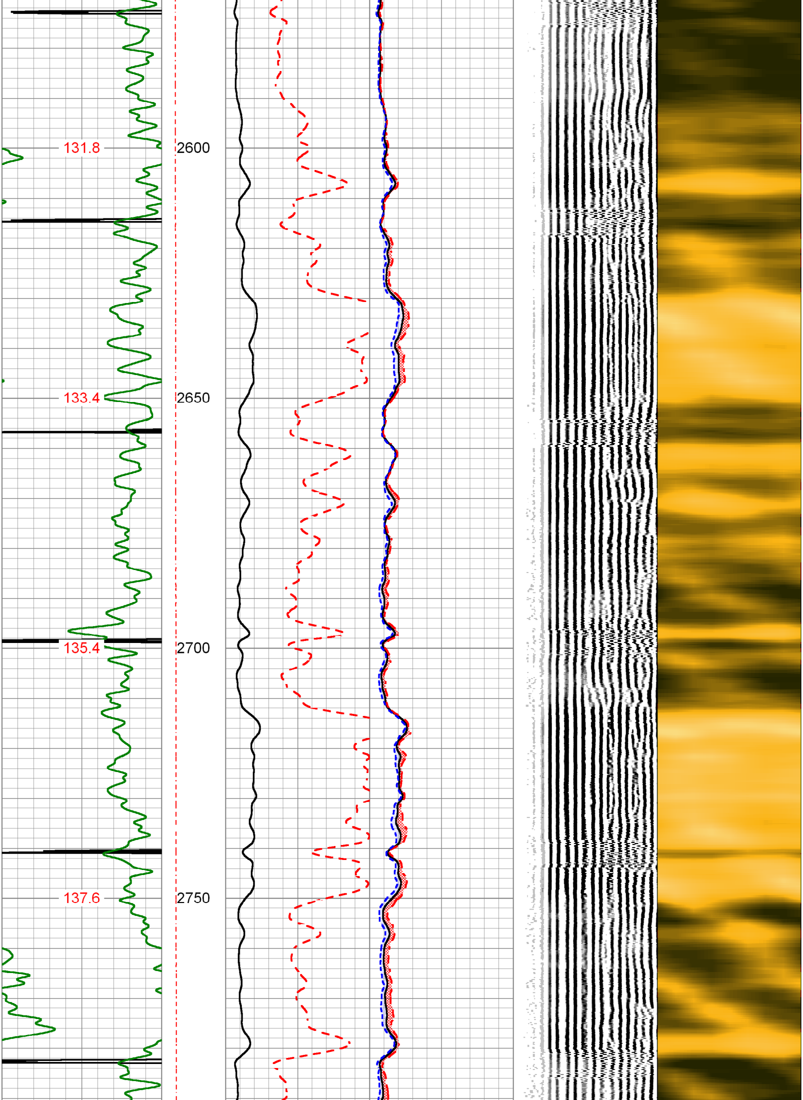


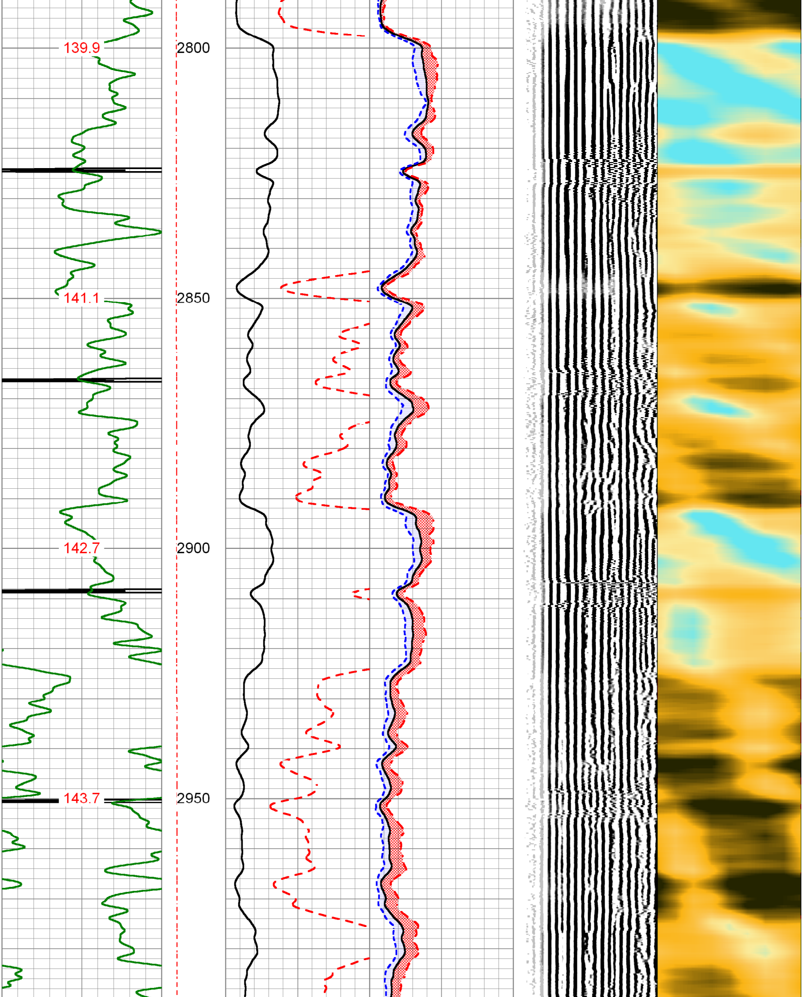


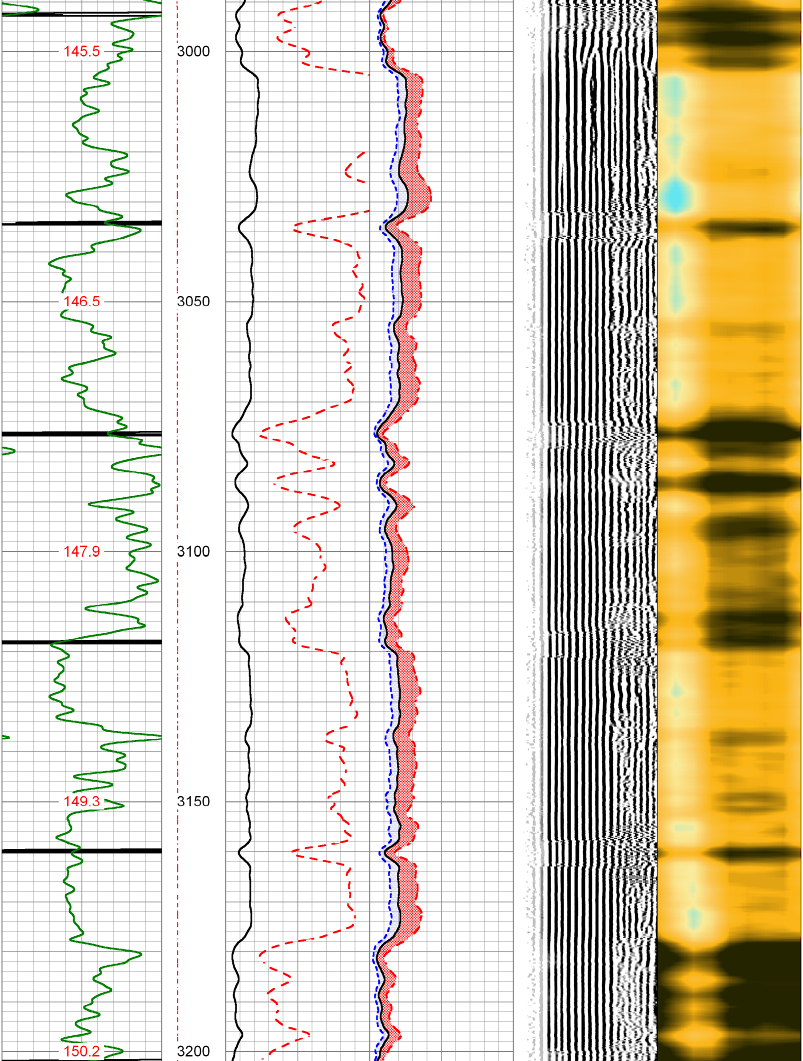


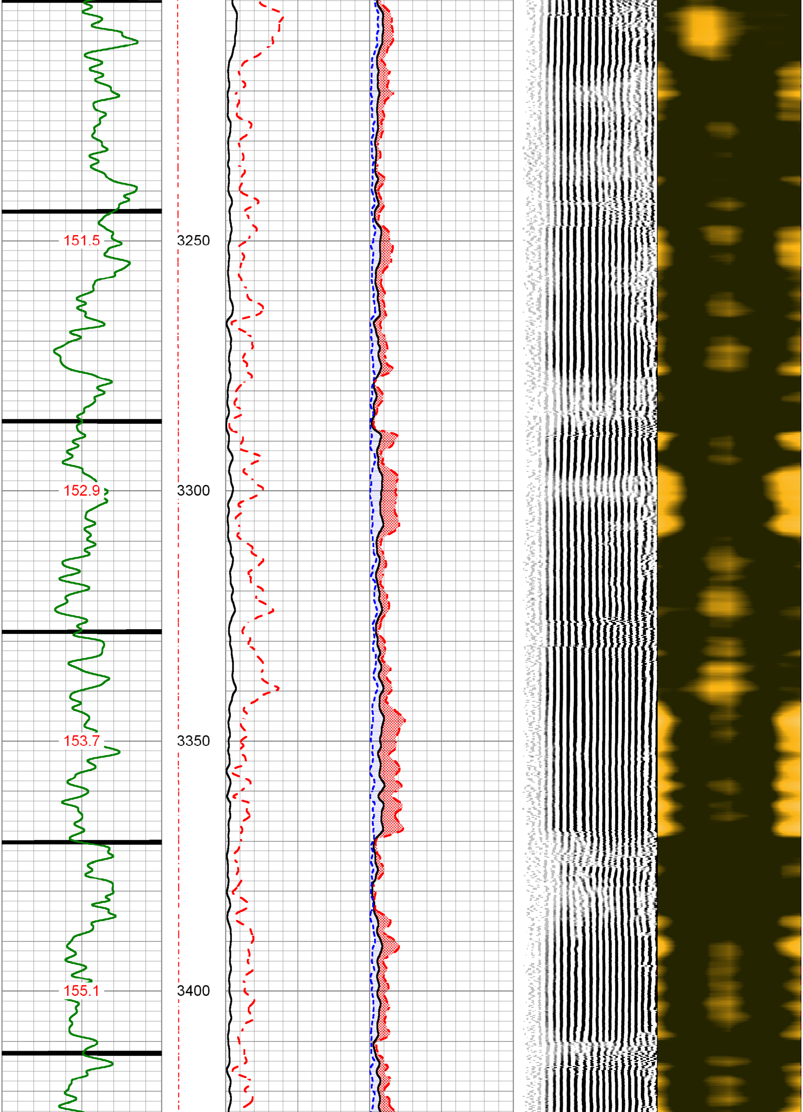


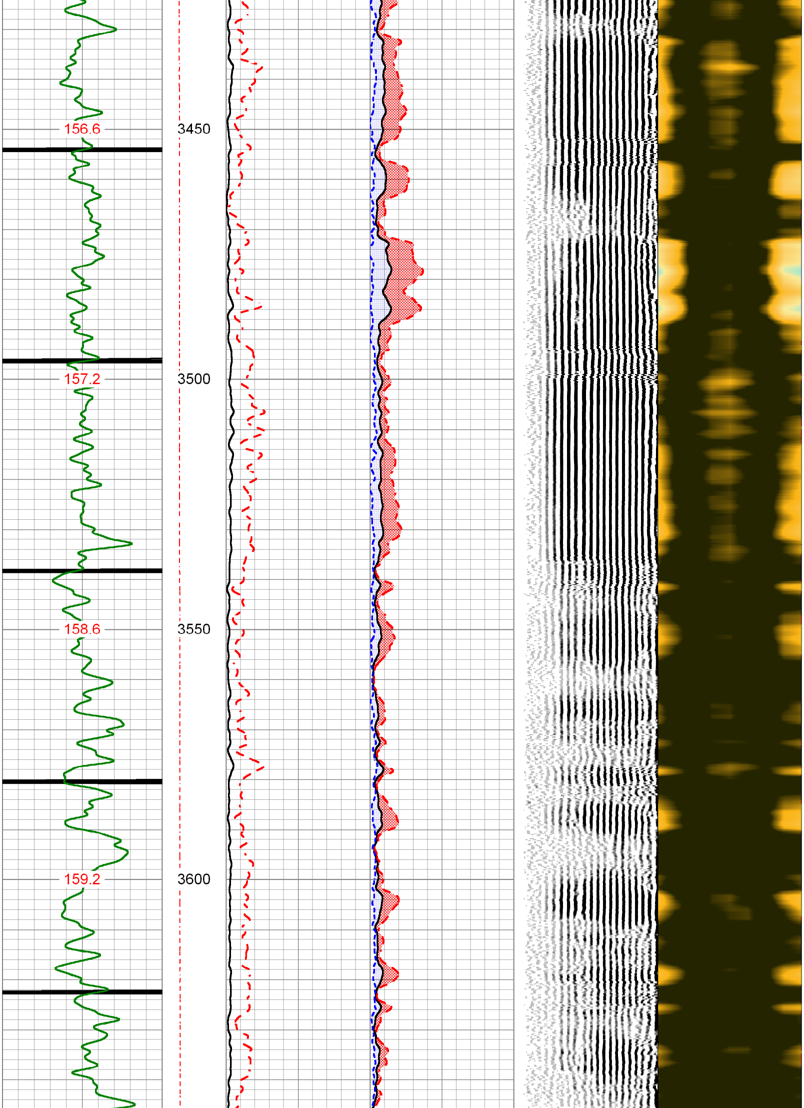








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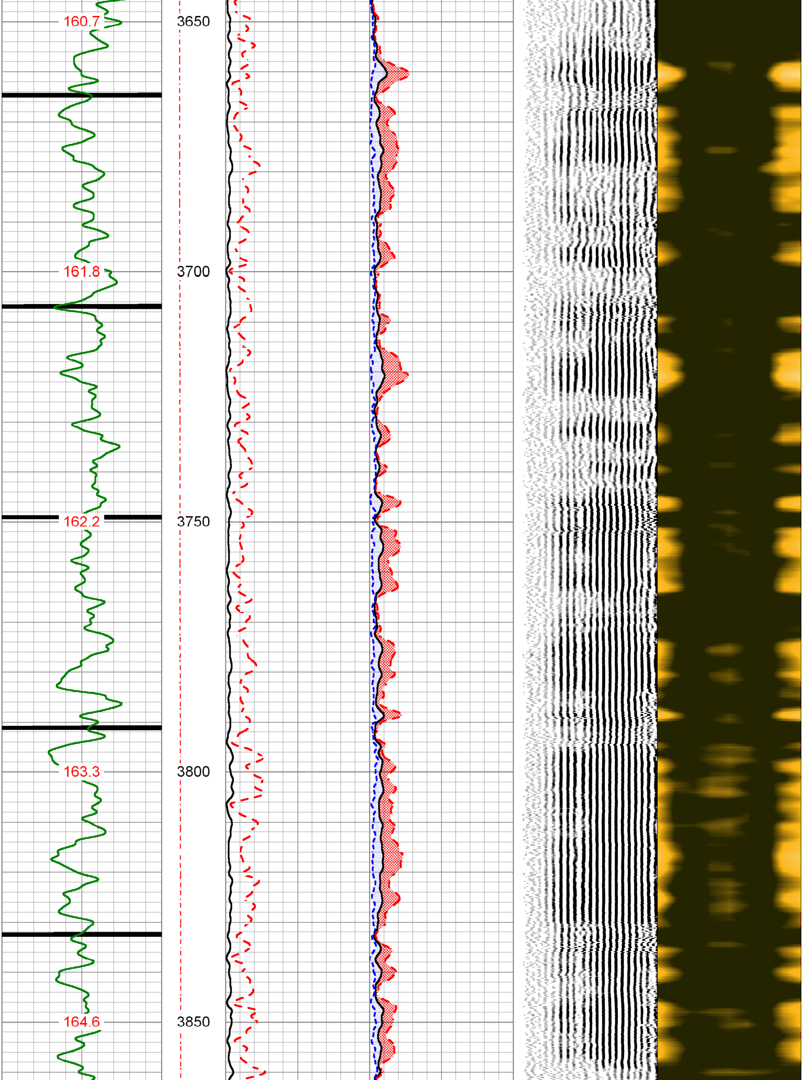
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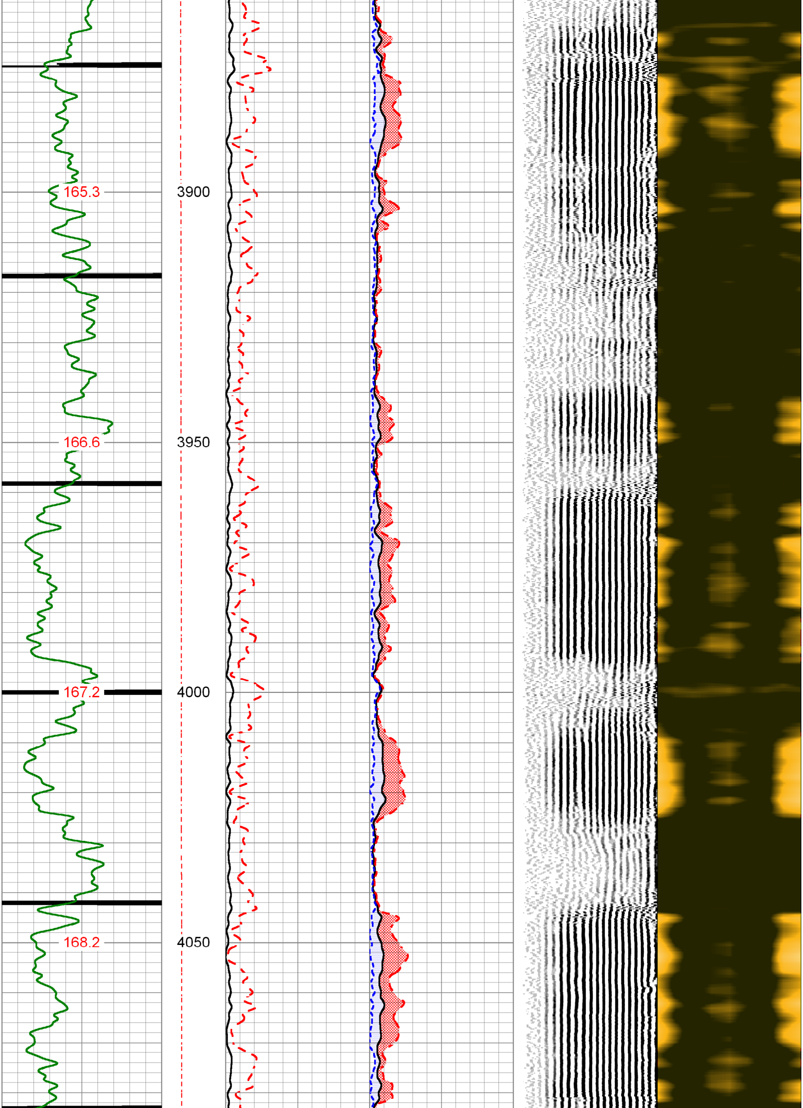
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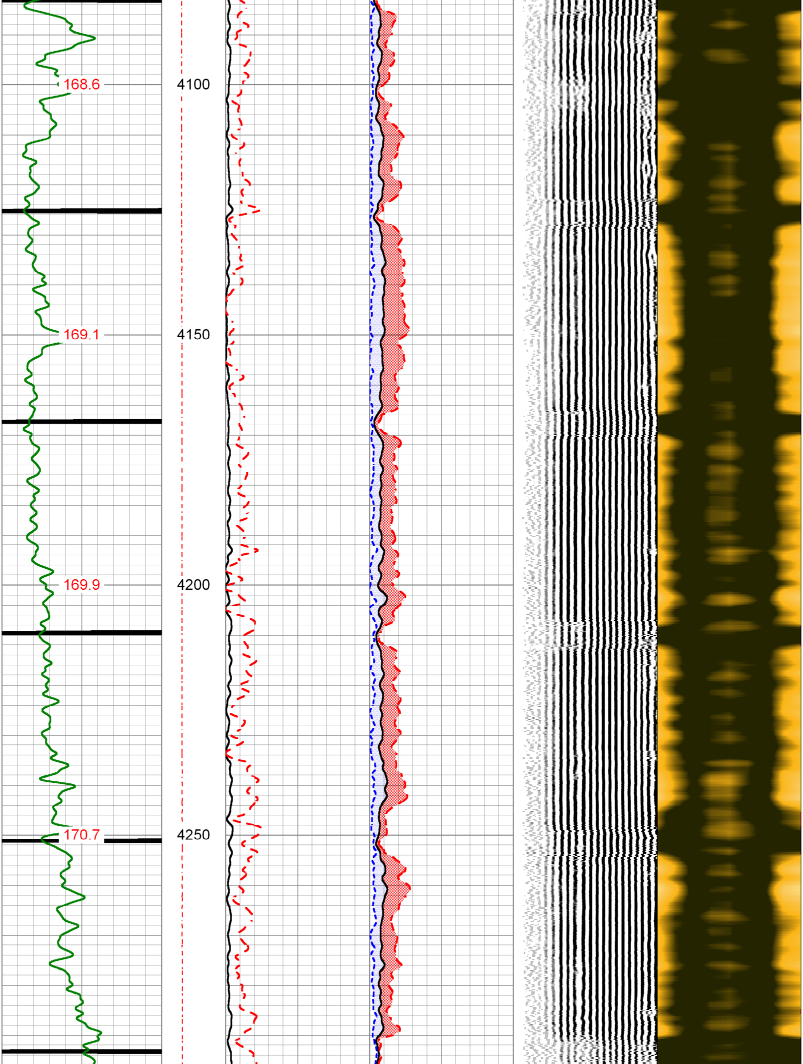
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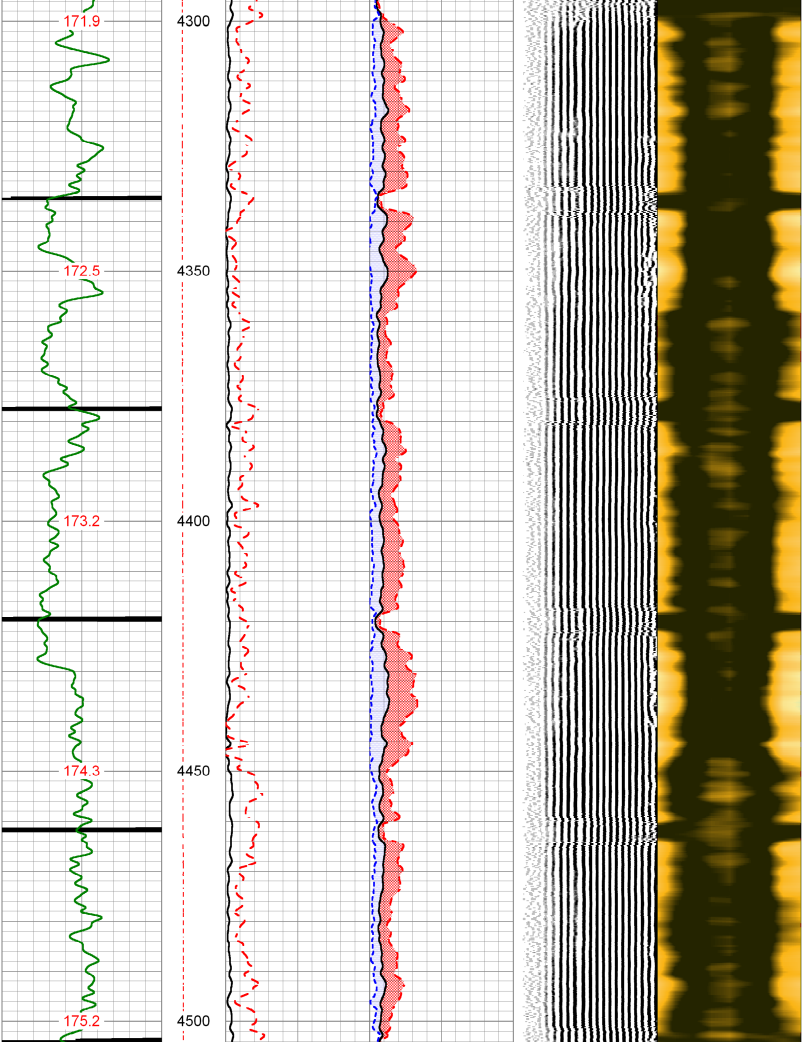
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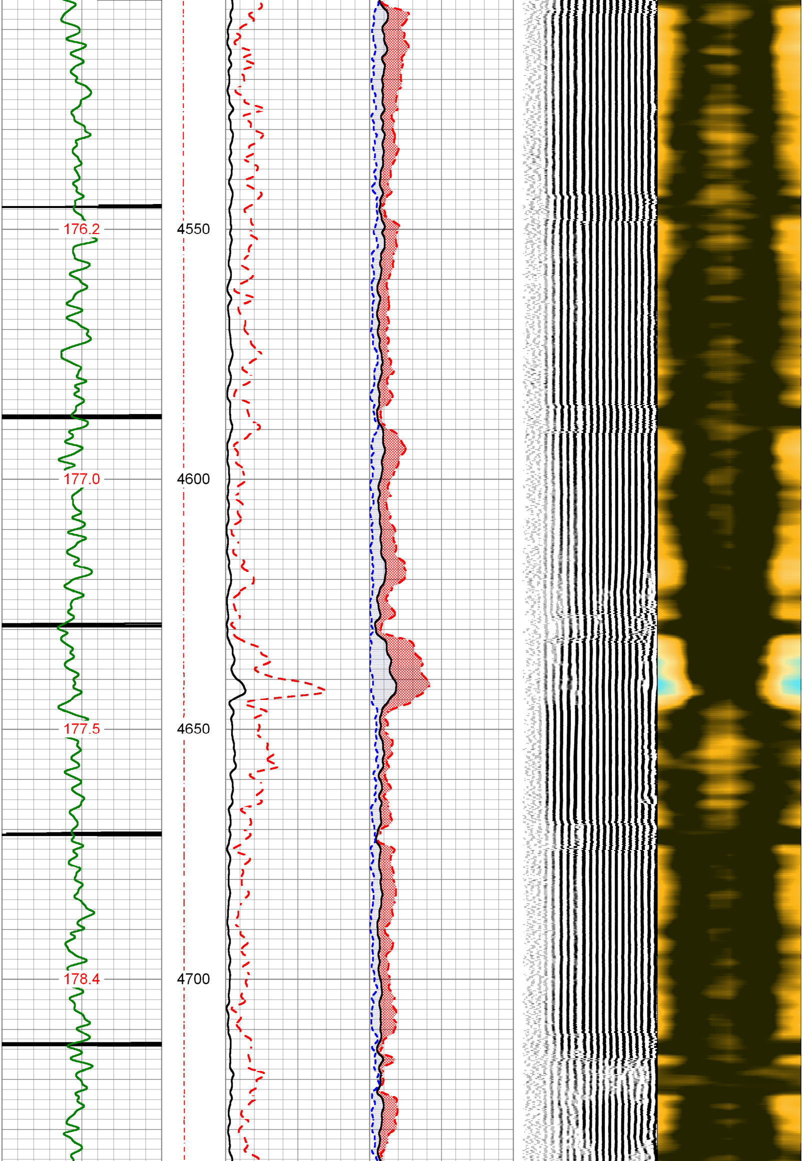
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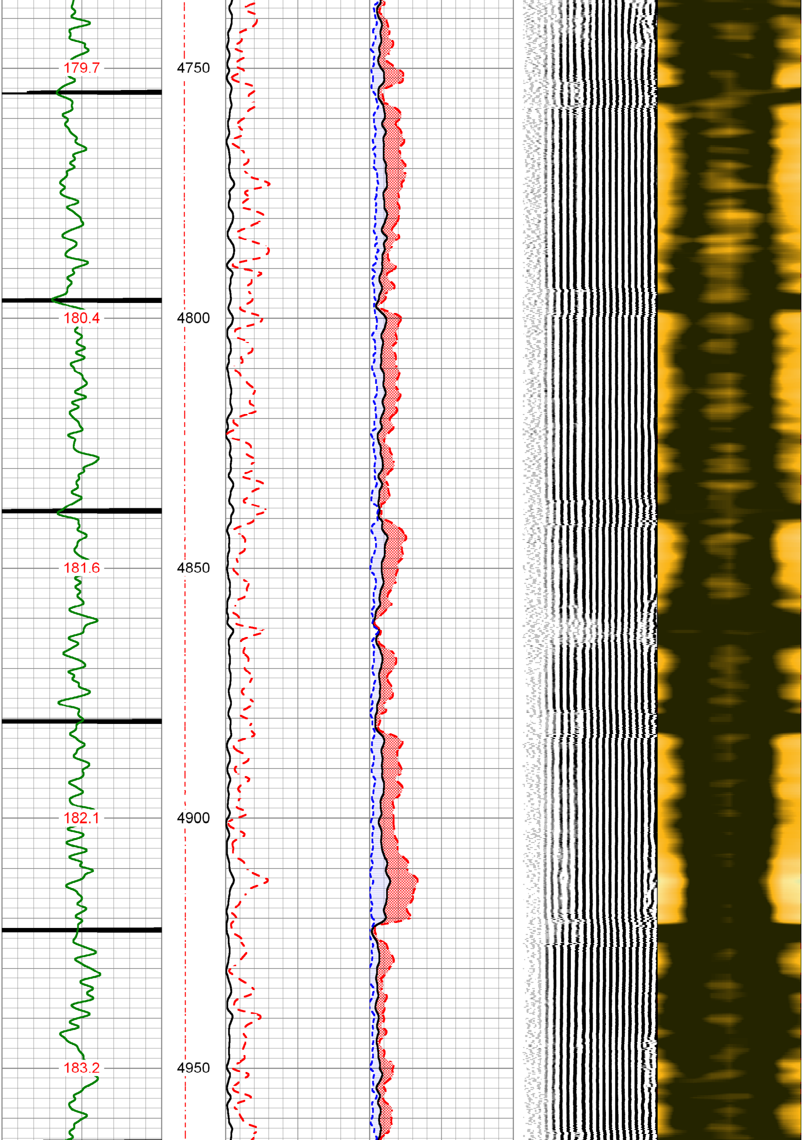
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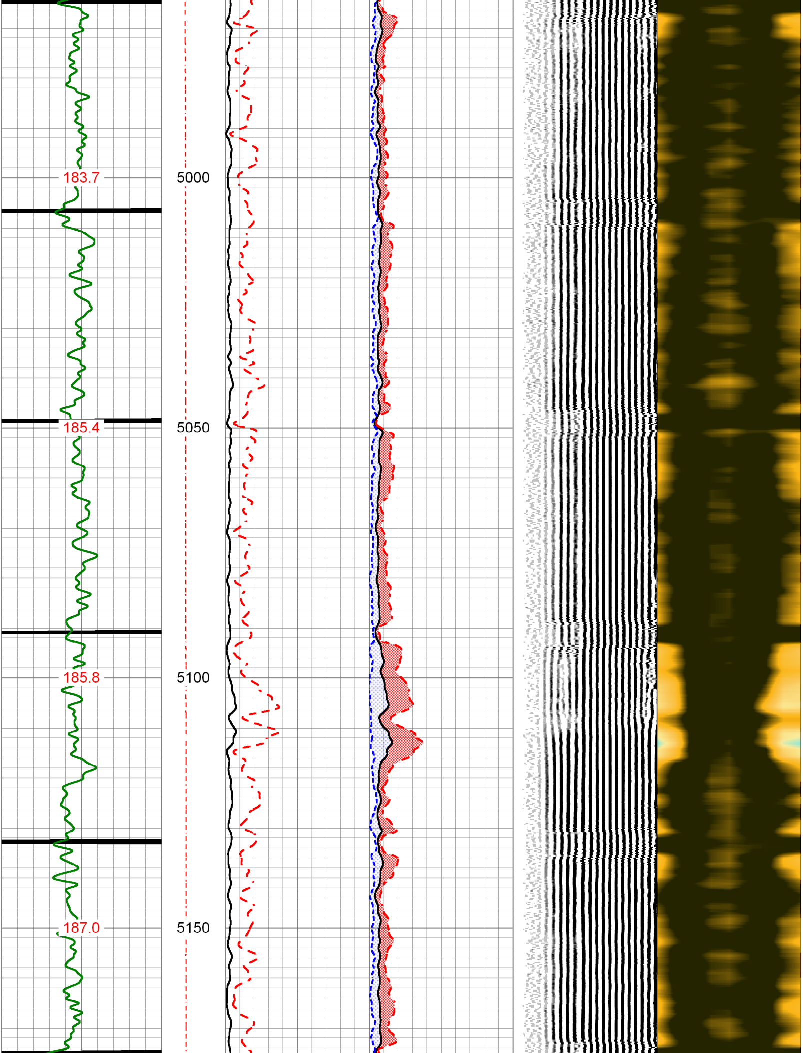
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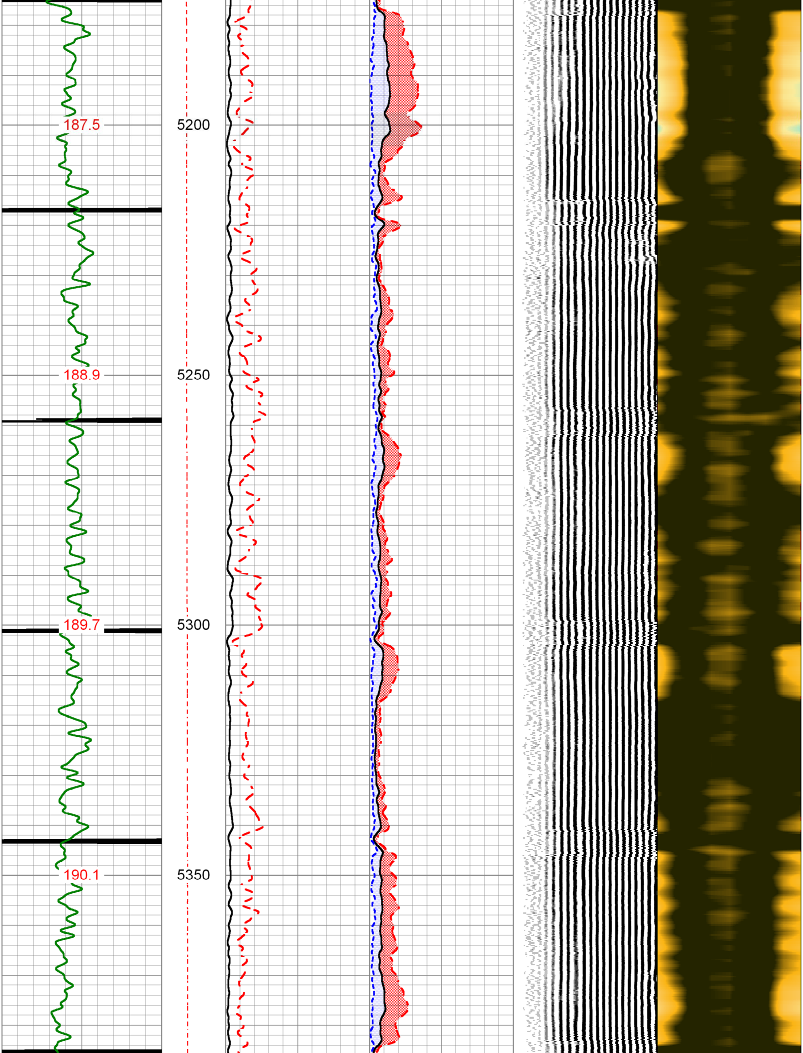
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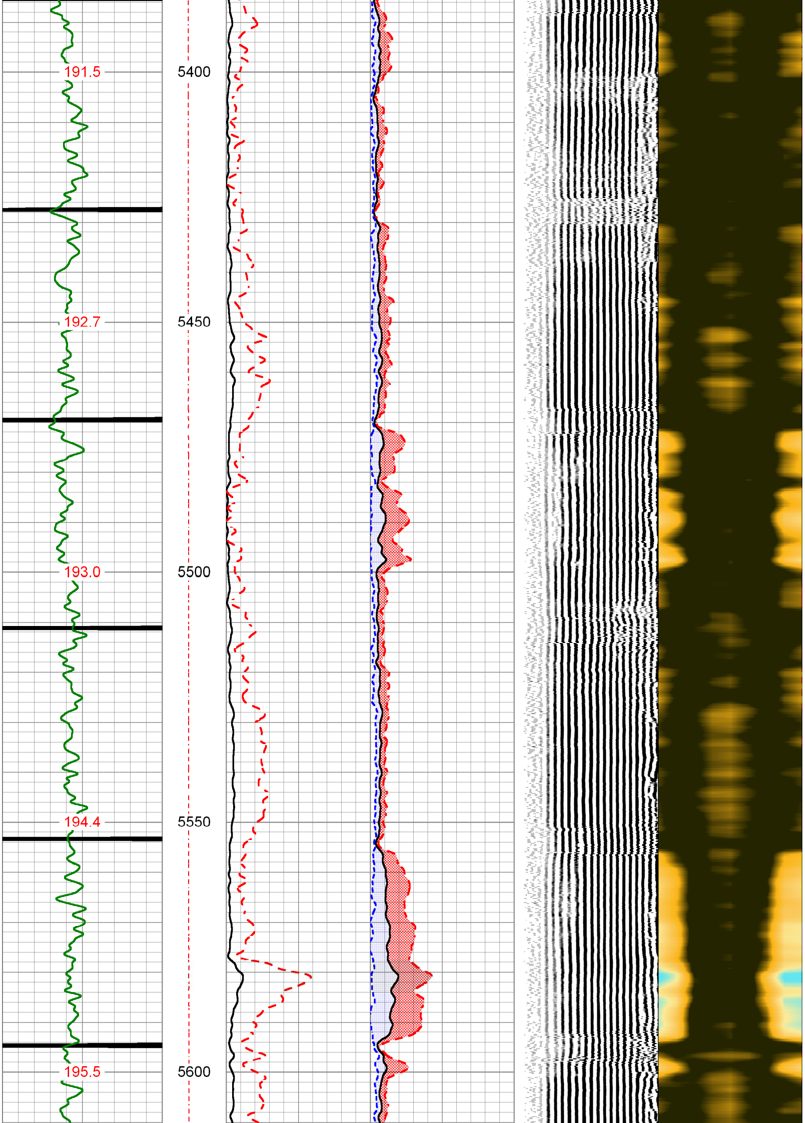
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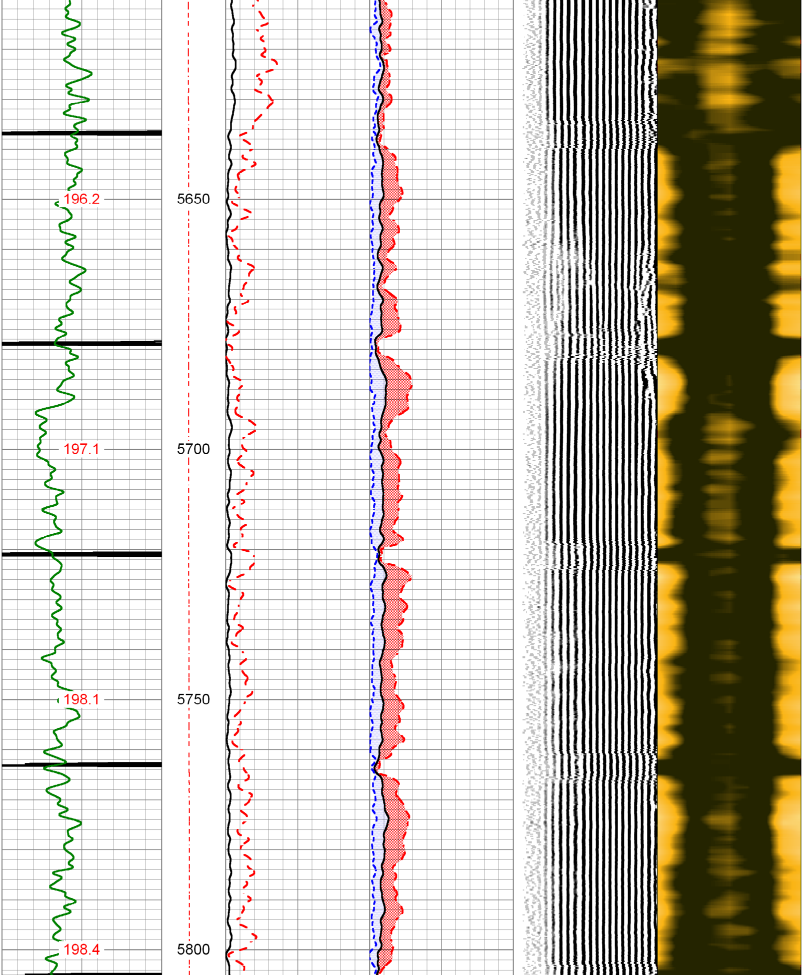
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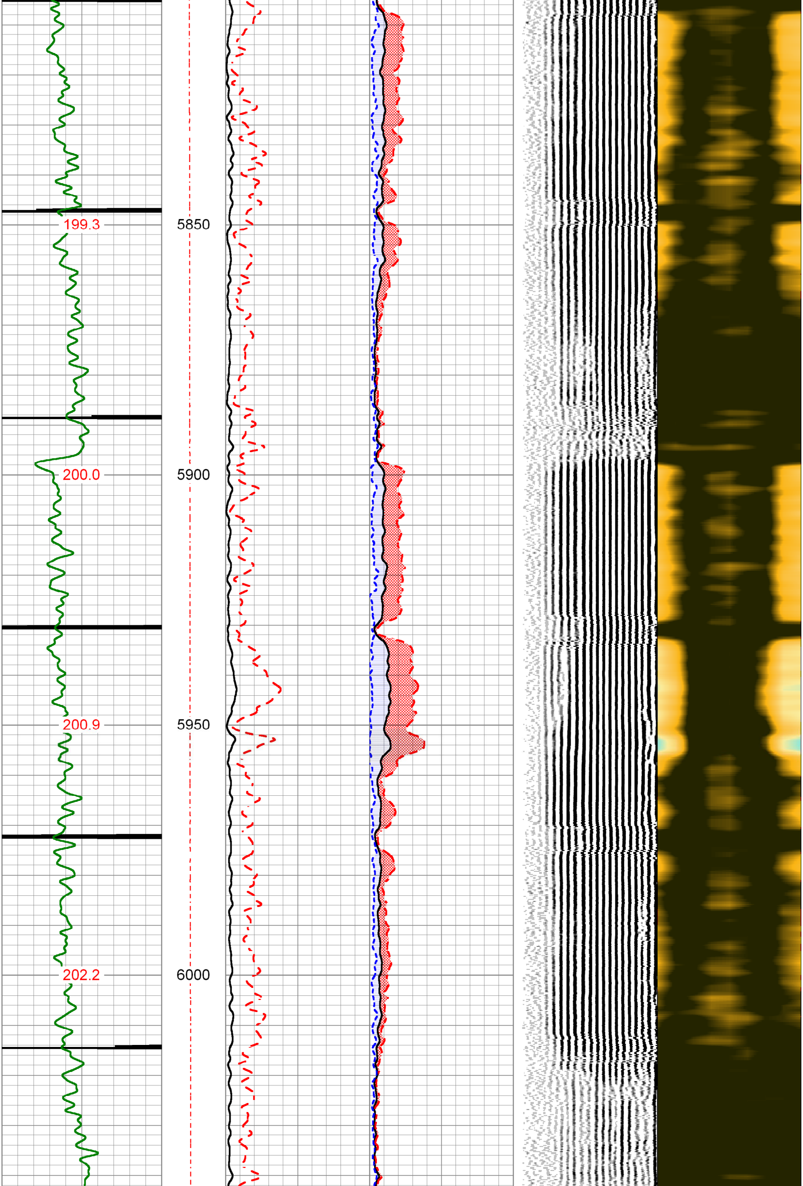
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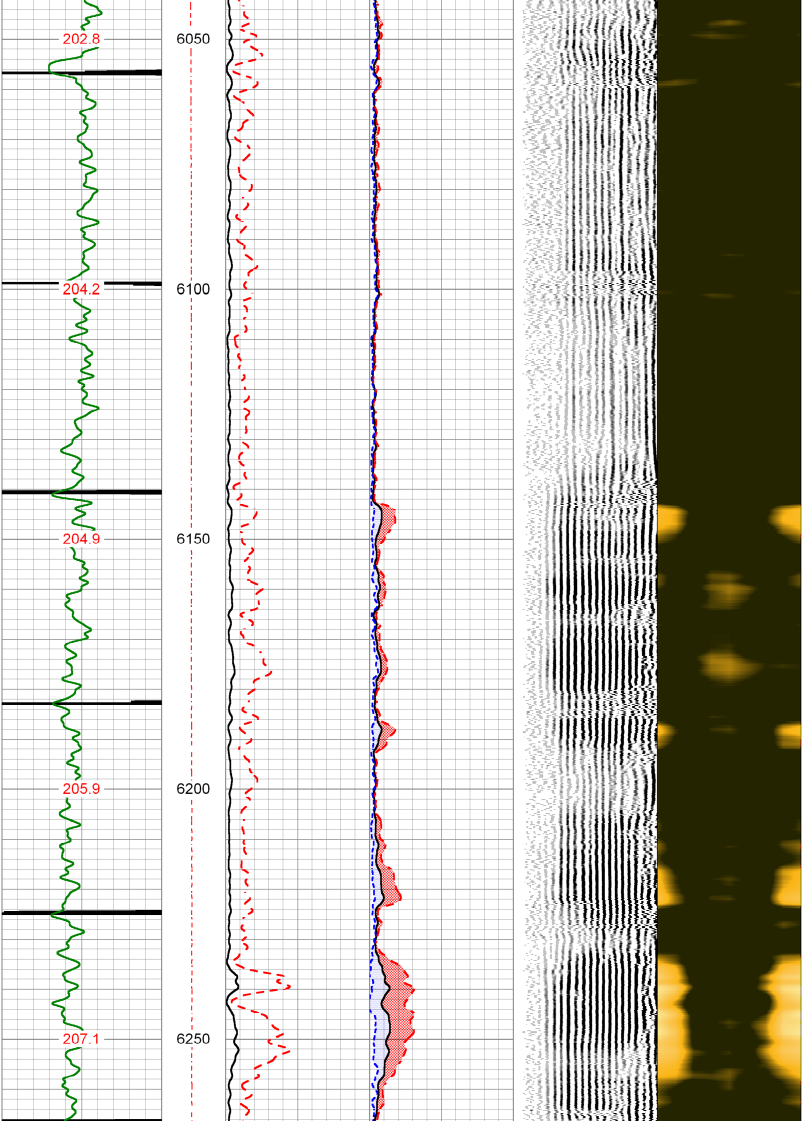
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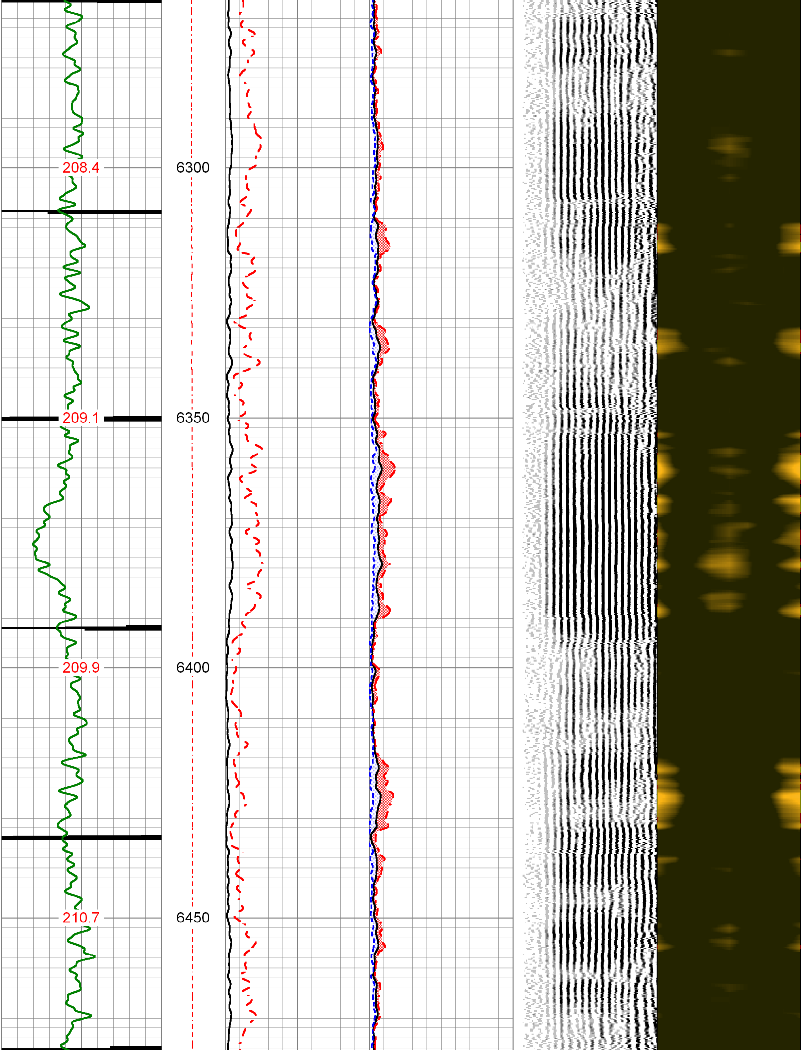
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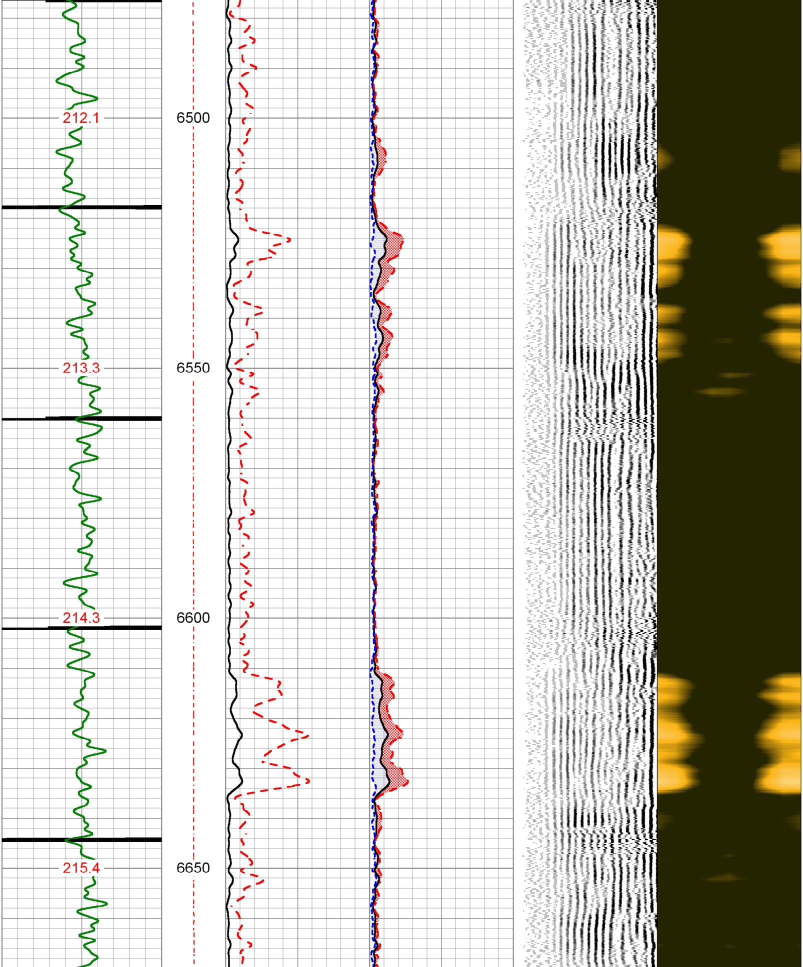
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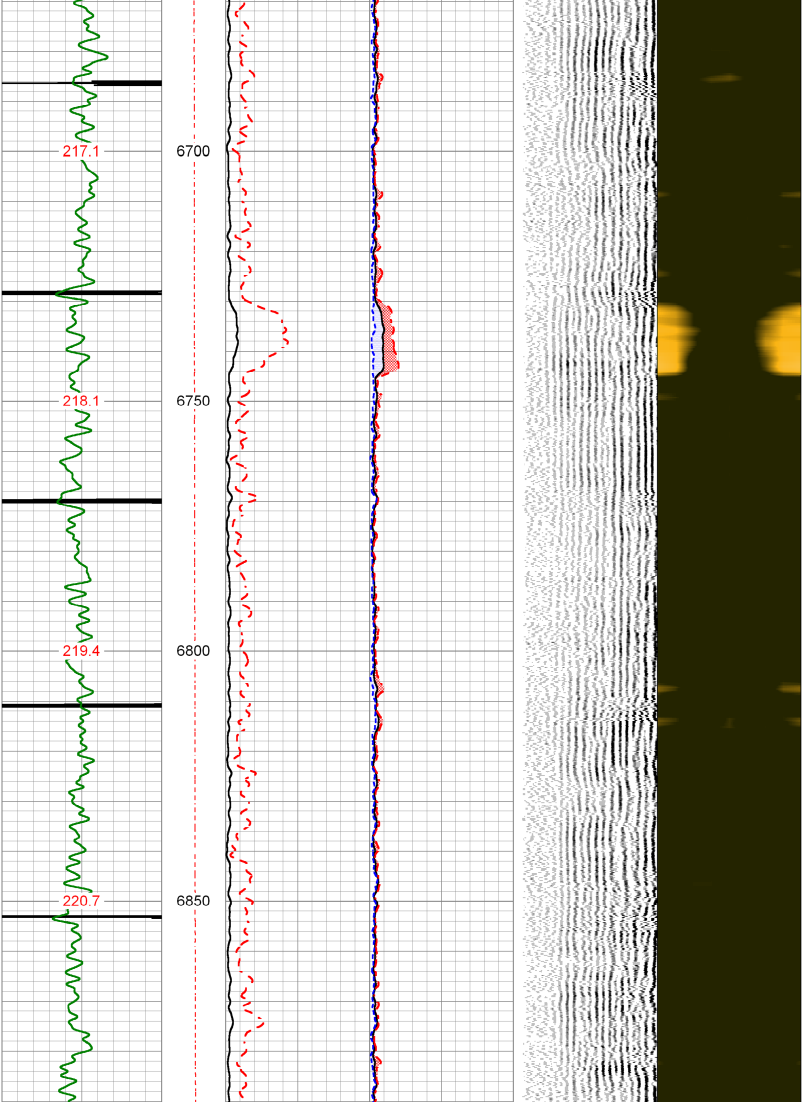
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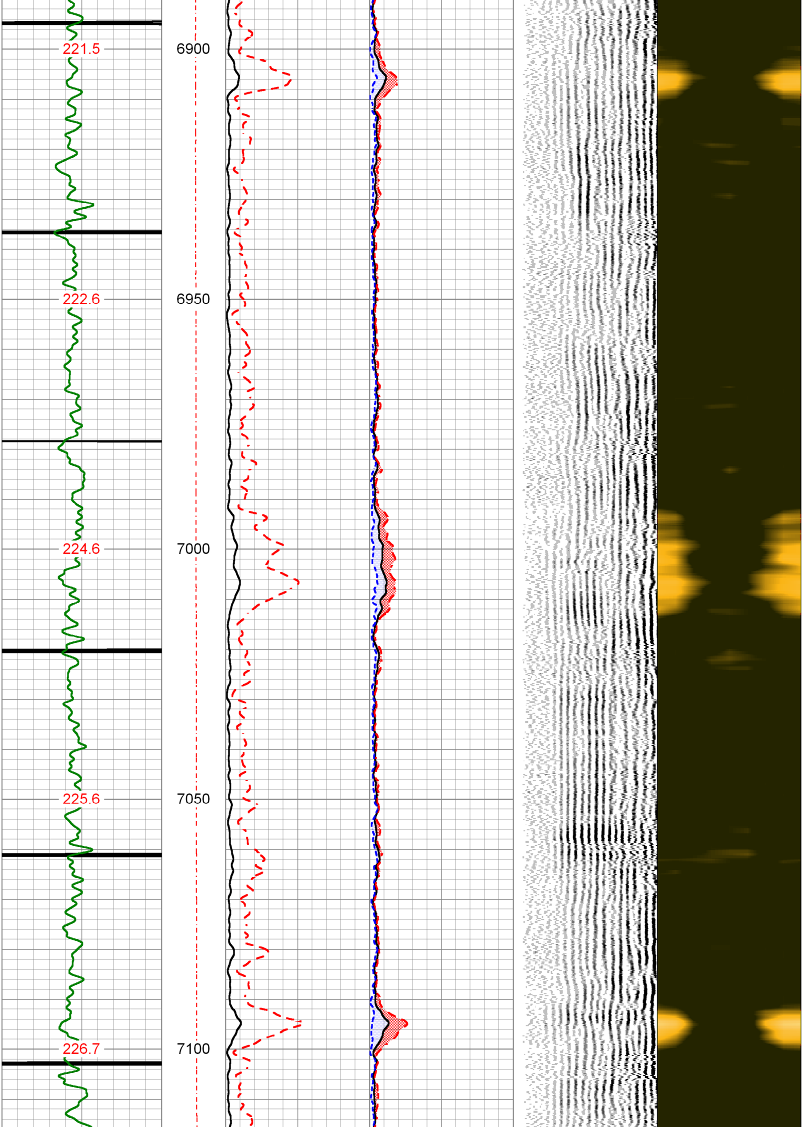
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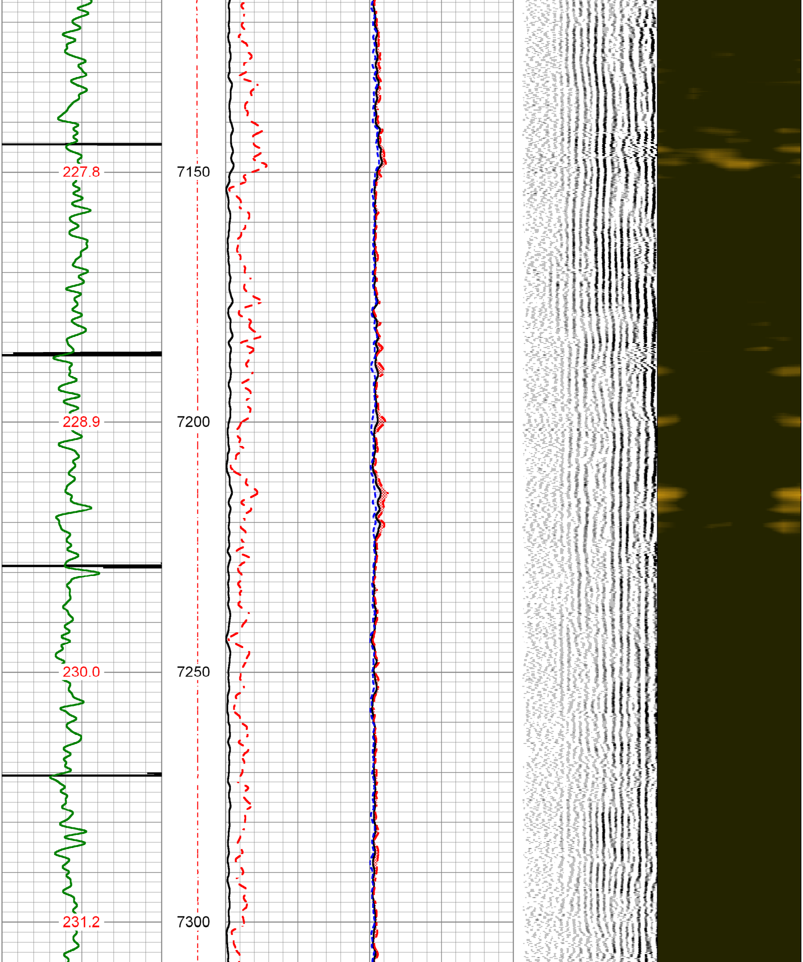
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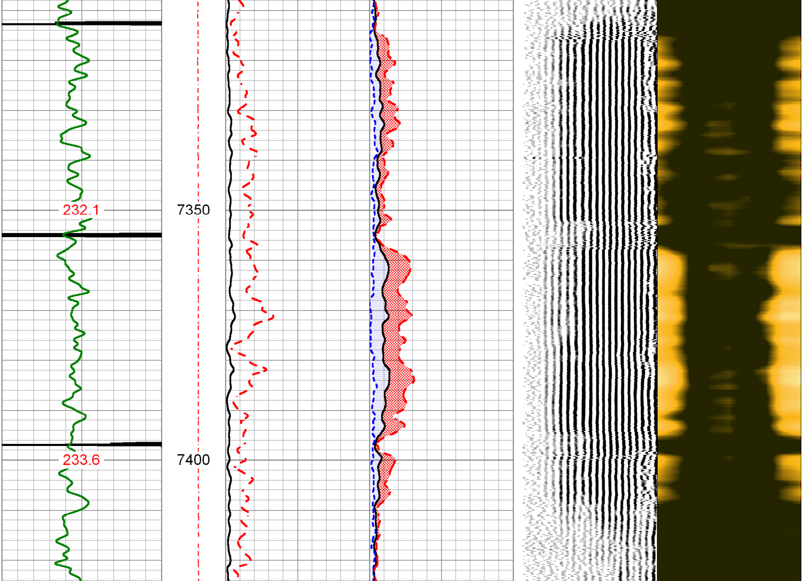
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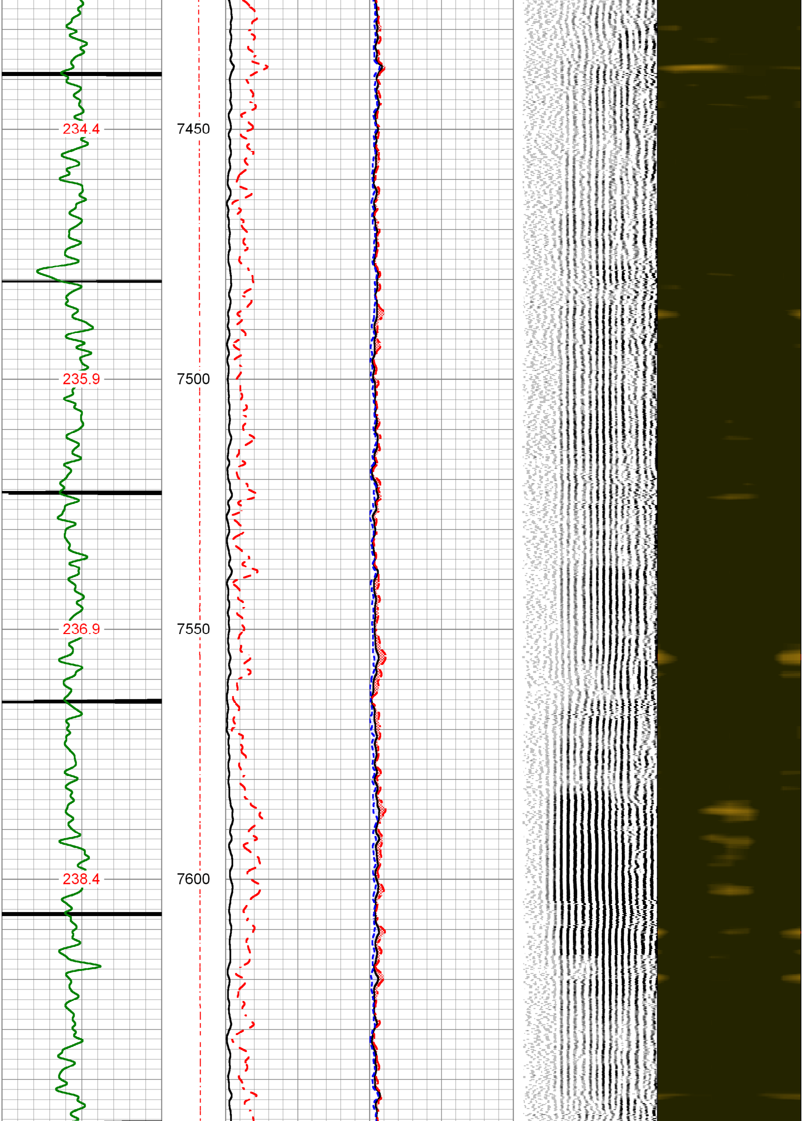
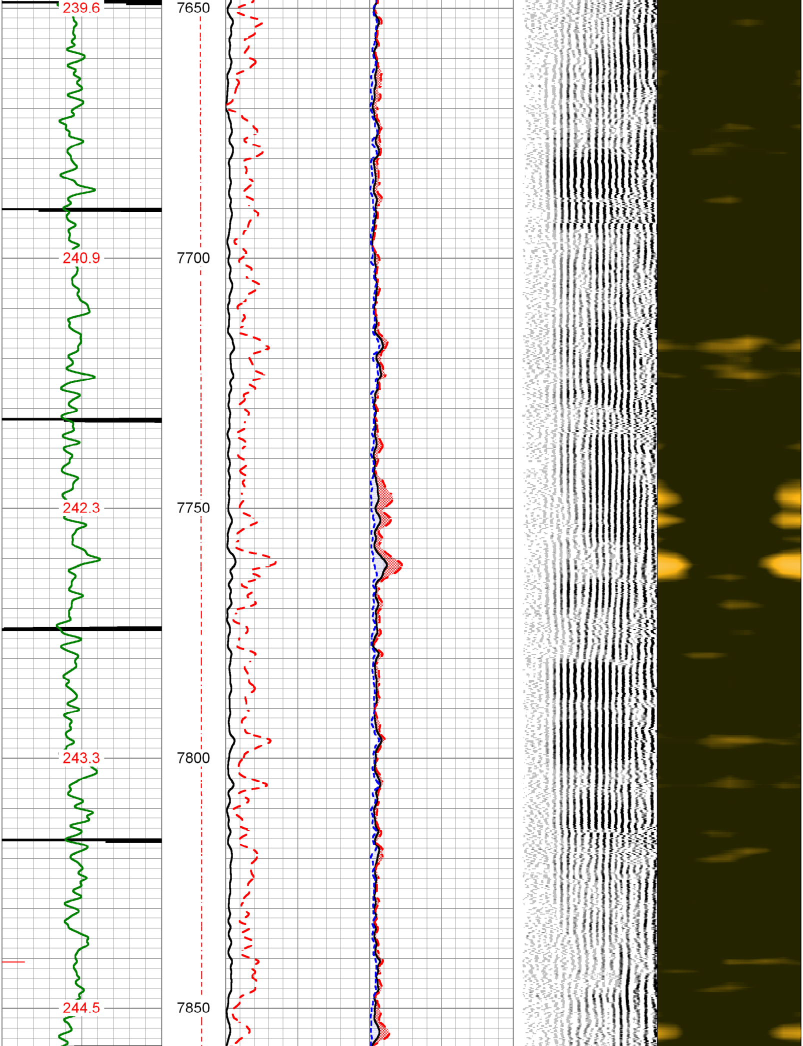
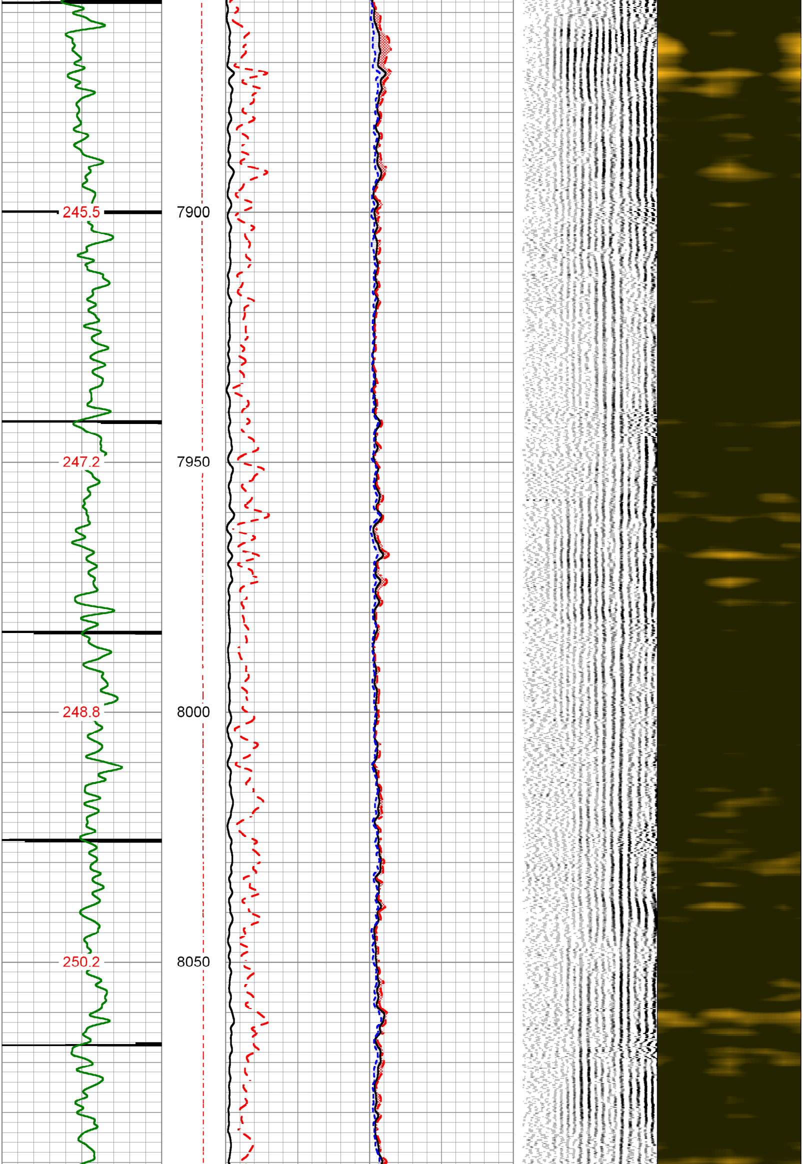
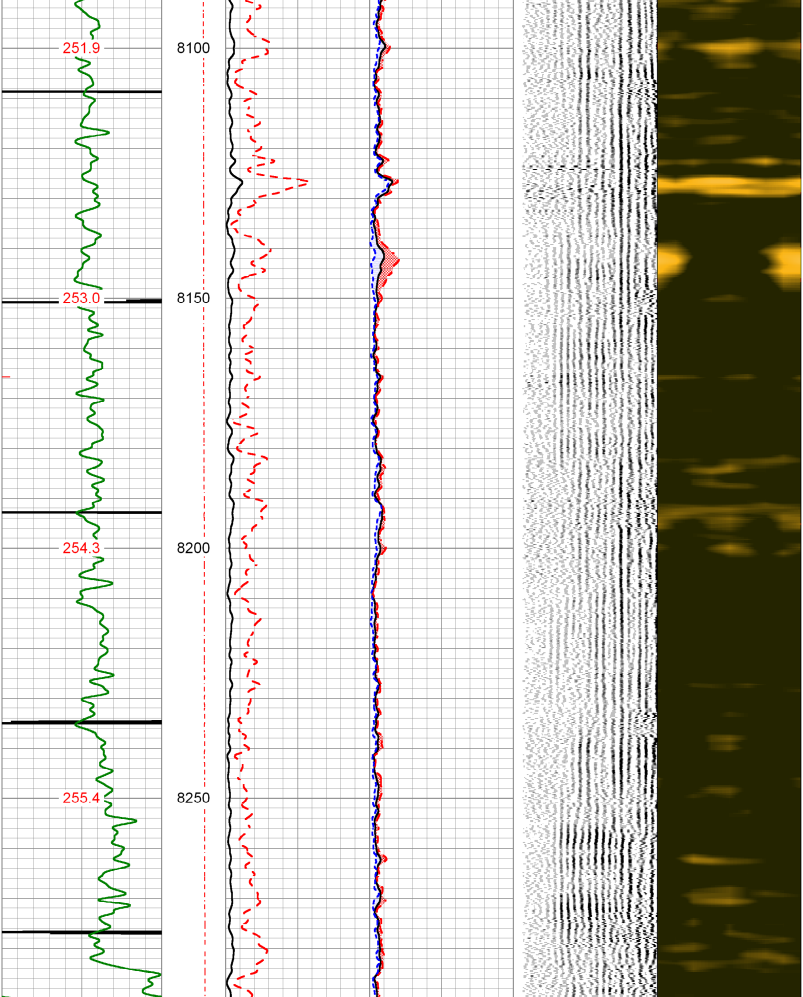
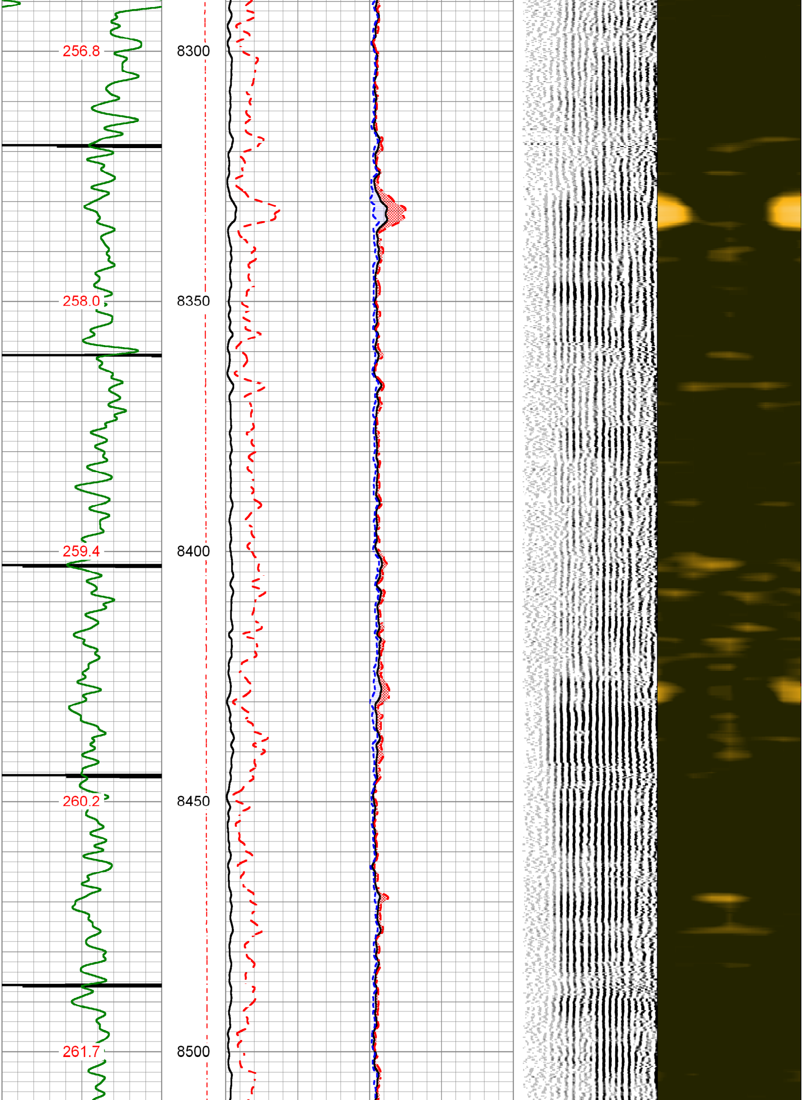
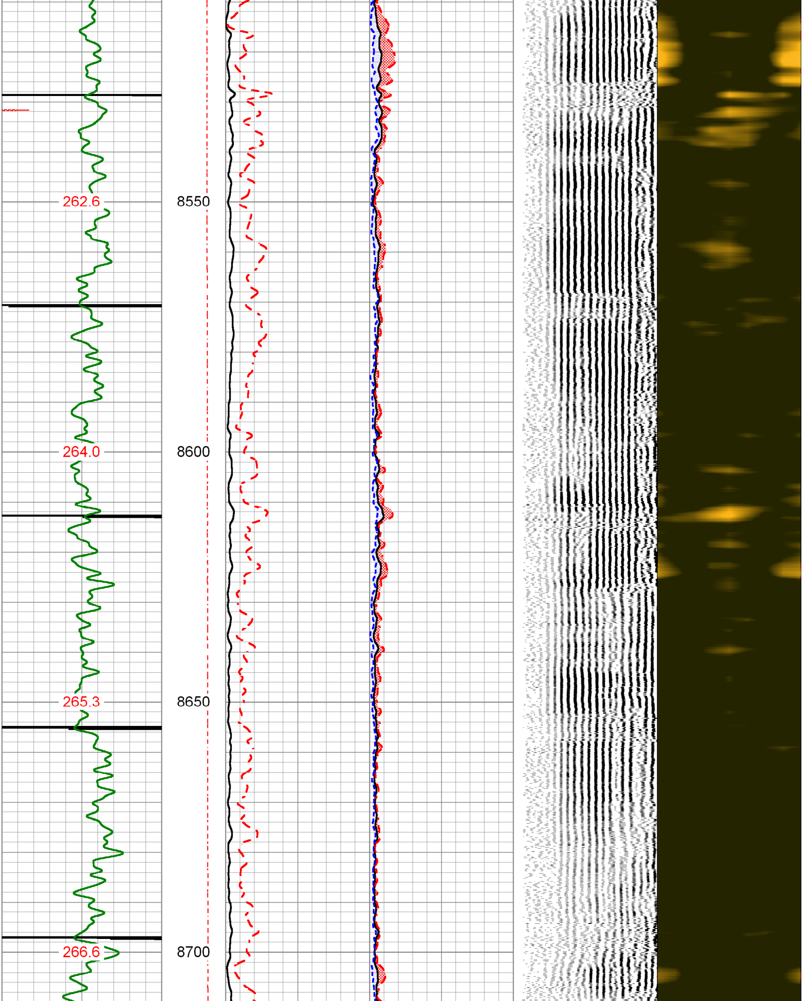


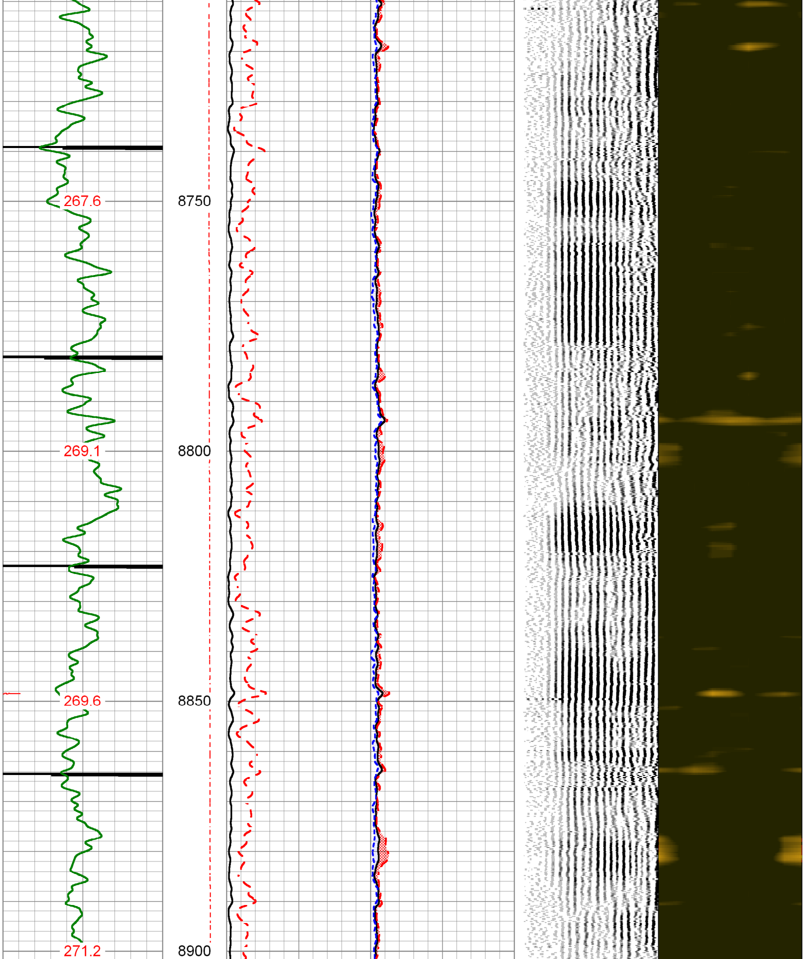


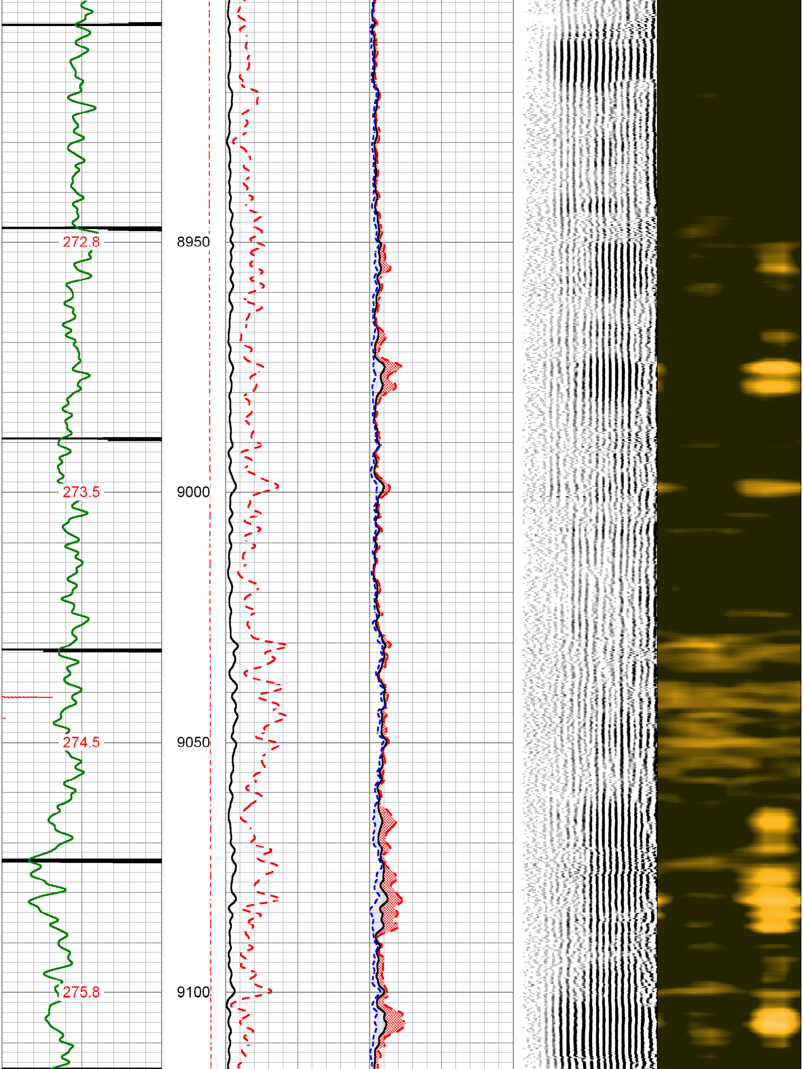


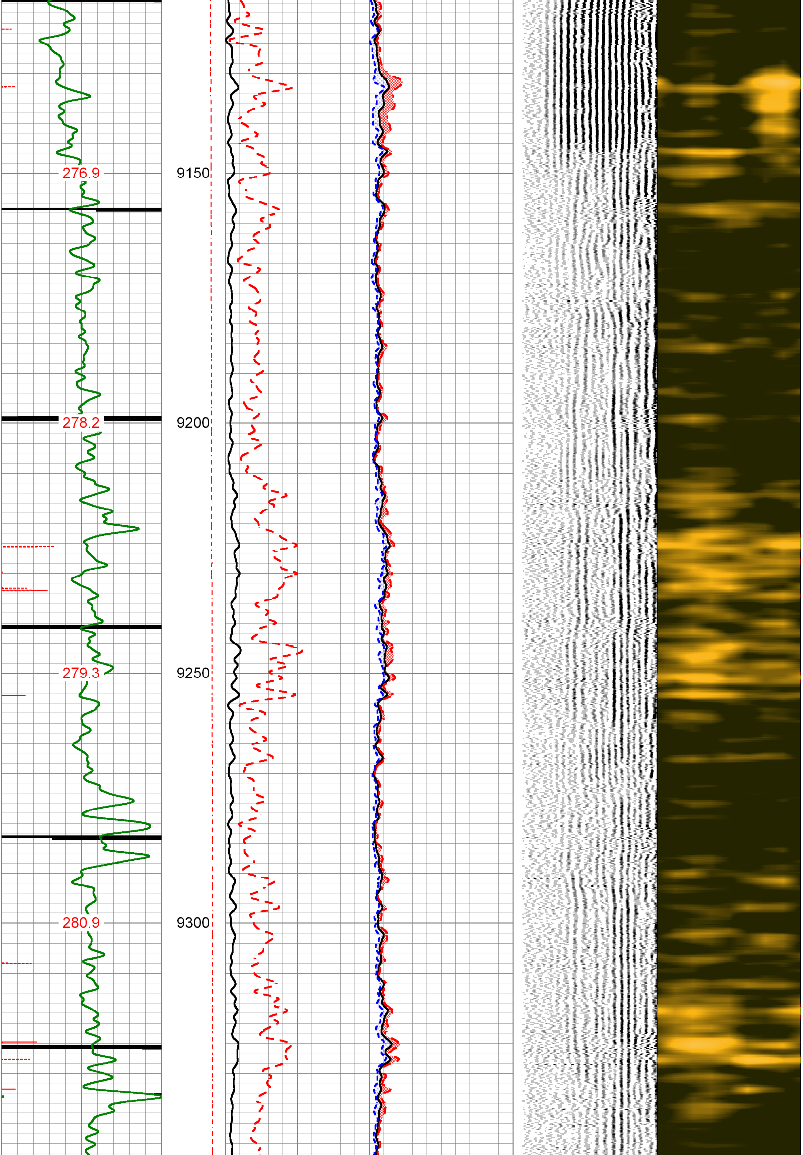


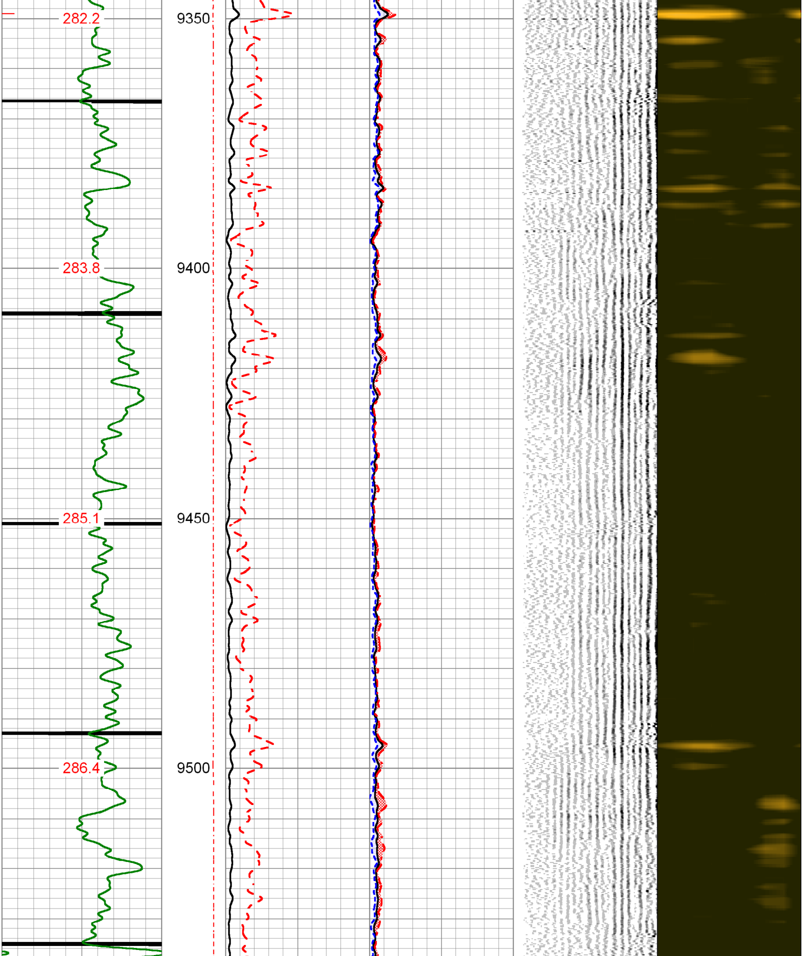


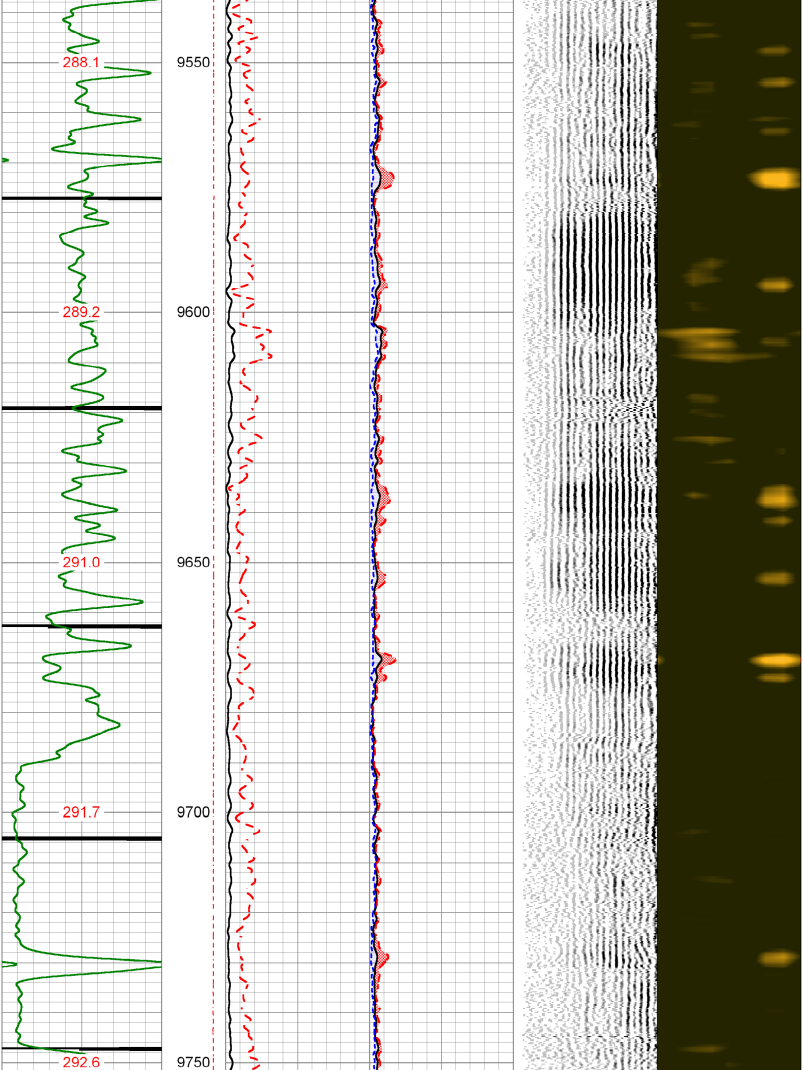


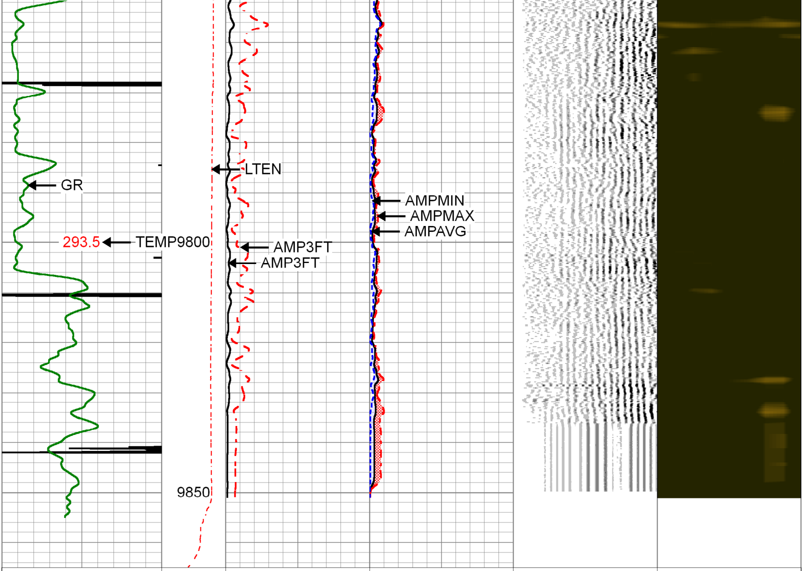








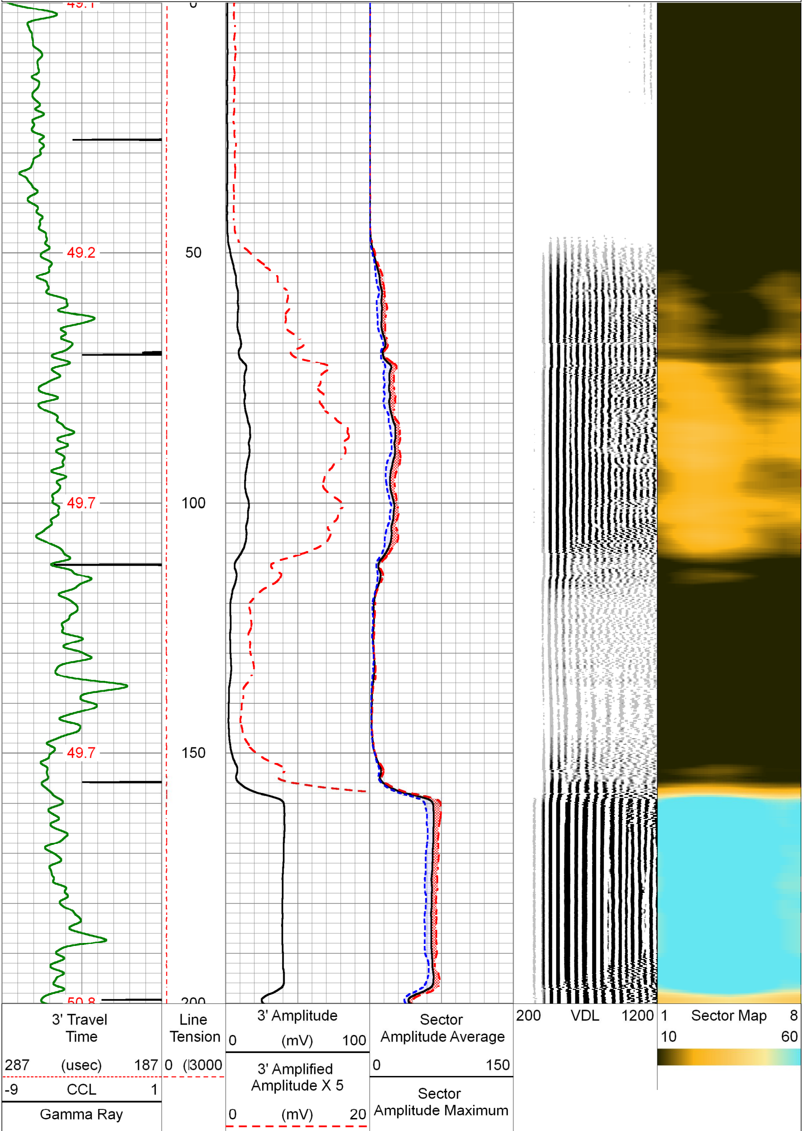




3' Travel Time 287 (usec) 187	Line Tension 0 (l3000	3' Amplitude 0 (mV) 100	Sector Amplitude Average 0 150	200 VDL 1200	1 Sector Map 8 10 60
-9 CCL 1		3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Maximum 0 150		
Gamma Ray 0 (GAPI) 150			Sector Amplitude Minimum 0 150		
TEMP (degF)					

Database File	sandridge_pintail_swd_0708_2-16d.db
Dataset Pathname	pass1.21
Presentation Format	pinr_scbl
Dataset Creation	Sun Feb 18 16:51:36 2018
Charted by	Depth in Feet scaled 1:240

3' Travel Time 287 (usec) 187	Line Tension 0 (l3000	3' Amplitude 0 (mV) 100	Sector Amplitude Average 0 150	200 VDL 1200	1 Sector Map 8 10 60
-9 CCL 1		3' Amplified Amplitude X 5 0 (mV) 20	Sector Amplitude Maximum 0 150		
Gamma Ray 0 (GAPI) 150			Sector Amplitude Minimum 0 150		
TEMP (degF)					



0 (GAPI) 150

TEMP
(degF)

0 150
Sector
Amplitude Minimum
0 150

Calibration Report

Database File	sandridge_pintail_swd_0708_2-16d.db
Dataset Pathname	pass1.19
Dataset Creation	Sun Feb 18 14:37:03 2018

Compensated Neutron Calibration Report

Tool Type: 275BL
Serial Number: 120508

SHOP CALIBRATION Thu May 03 14:03:35 2012

	Cal Tank	Units
Tank Ref Ratio	4.8664	
LS Detector	747.32	cps
SS Detector	4420.07	cps
Tool Ratio	5.3849	SS/LS
Tool Ratio Gain	0.9037	

Gamma Ray Calibration Report

Serial Number:	FW1404-112	
Tool Model:	GC_6PIN	
Performed:	Mon Jul 24 14:34:06 2017	
Calibrator Value:	240.0	GAPI
Background Reading:	51.1	cps
Calibrator Reading:	451.0	cps
Sensitivity:	0.6002	GAPI/cps

Segmented Cement Bond Log Calibration Report

Serial Number:	FW1403-68	
Tool Model:	275 Probe w Temp New Mod	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	6.425	ft

Master Calibration, performed Sun Feb 18 13:22:48 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.007	1.501	1.000	71.921	47.030	1.327
CAL	-0.008	1.508				
5'	-0.008	1.448	1.000	71.921	48.717	1.368
SUM						
S1	-0.013	1.508	0.000	100.000	65.725	0.862
S2	-0.007	1.522	0.000	100.000	65.416	0.445
S3	-0.007	1.507	0.000	100.000	66.036	0.471
S4	-0.007	1.524	0.000	100.000	65.304	0.478
S5	-0.007	1.518	0.000	100.000	65.568	0.456
S6	-0.007	1.509	0.000	100.000	65.948	0.469
S7	-0.007	1.492	0.000	100.000	66.708	0.455
S8	-0.007	1.500	0.000	100.000	66.358	0.467

Air Zero Calibration, performed Sun Feb 18 13:21:12 2018:

	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:	FW1403-68
Tool Model:	275 Probe w Temp New Mod
Performed:	Wed Aug 03 11:06:11 2016

	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

PIONEER
Pioneer Energy Services

Company	SANDRIDGE
Well	PINTAIL_SWD_0780_2-16D
Field	N_PARK_HORIZ_NBRR
Parish	JACKSON
State	CO