Pioneer Energy Services

RADIAL BOND LOG
WITH GAMMA RAY
NEUTRON

Comp. SANDRIDGE_ENERGY
Well PINTAIL_SWD_0780_2-16D
Field N_PARK_HORIZ_NBRR
Par. JACKSON_CO
State C.O.

Company	**SANDRIDGE_ENERGY**
Well	**PINTAIL_SWD_0780_2-16D**
Field	**N_PARK_HORIZ_NBRR**
Parish	**JACKSON_CO** State **C.O.**

Location: API # : 505706566

SEC 16 TWP 7N RGE 80W

Other Services

TEMP

Permanent Datum	KB	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	2-17-2018		
Run Number	1		
Depth Driller or PBTD	9900'		
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_DEG.F		
Max. Wellhead Pressure	1000#		
Wellhead Connection	7-1/16"_5K		
Estimated Cement Top			
Unit Number	P-82		
Wireline Size	9/32"		
Location	CASPER		
Recorded By	Z_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

<<< Fold Here >>>

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.

THANK YOU FOR USING PIONEER ENERGY SERVICES!

Your Pioneer Energy Services Crew

Engineer: ZACH_MAGNER
Operator: DAN_PIERI
Operator: JOSH_HARPER
Operator: K.C._JUDD

Tool Data - Services	Serial Number
SCBT	070230
CNL	FW1404-112

Log Variables

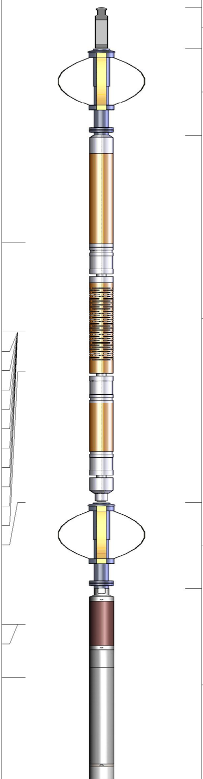
Database C:\ProgramData\Warrior\Data\sandridge_pintail_swd_0780_2-16d.db
Dataset field/well/run1/pass21/_vars_

Top - Bottom

BHTEMP_Src TEMP	CMTTKCOR On	CSTKCOR On	SZCOR On	CASED? Yes	NPORSEL Sandstone	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 0.362
CASEOD in 7	PERFS 0	TDEPTH ft 0	BOTTEMP degF 100	BOREID in 8.75		

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

Schematic

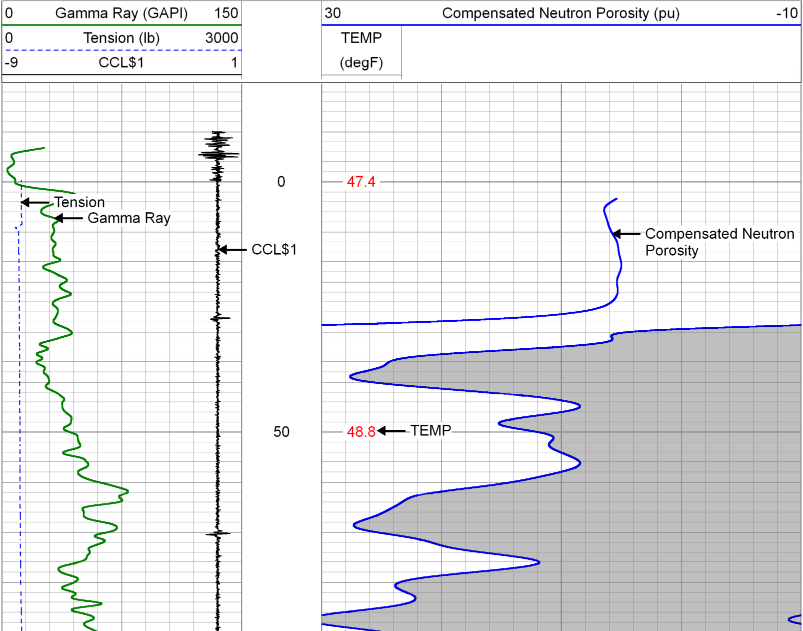


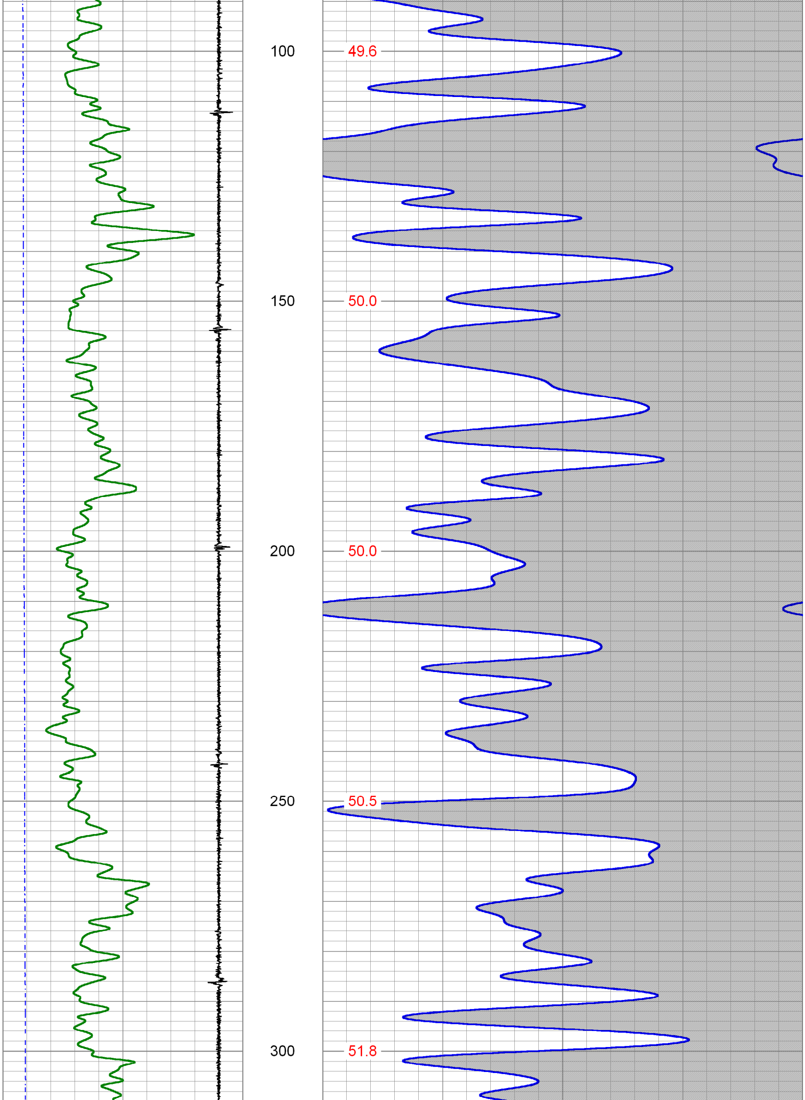
Description	Length (ft)	O.D. (in)	Weight (lb
Cable Head-Titan 143 1 7/16" Titan Cable Head (1" Fish Top)	1.03	1.43	2.00
Centralizer-275 TekCo 2 3/4" TekCo Centralizer	2.16	2.75	20.00
SCBL-275 Probe w Temp New Mod (0702 Probe Radii Bond Tool with Temperature	9.17	2.75	95.00
Centralizer-275 TekCo 2 3/4" TekCo Centralizer	2.16	2.75	20.00
GR-GC_6PIN (FW1404-112) Probe 6 Pin GR275-0001 rev.1	4.82	2.75	

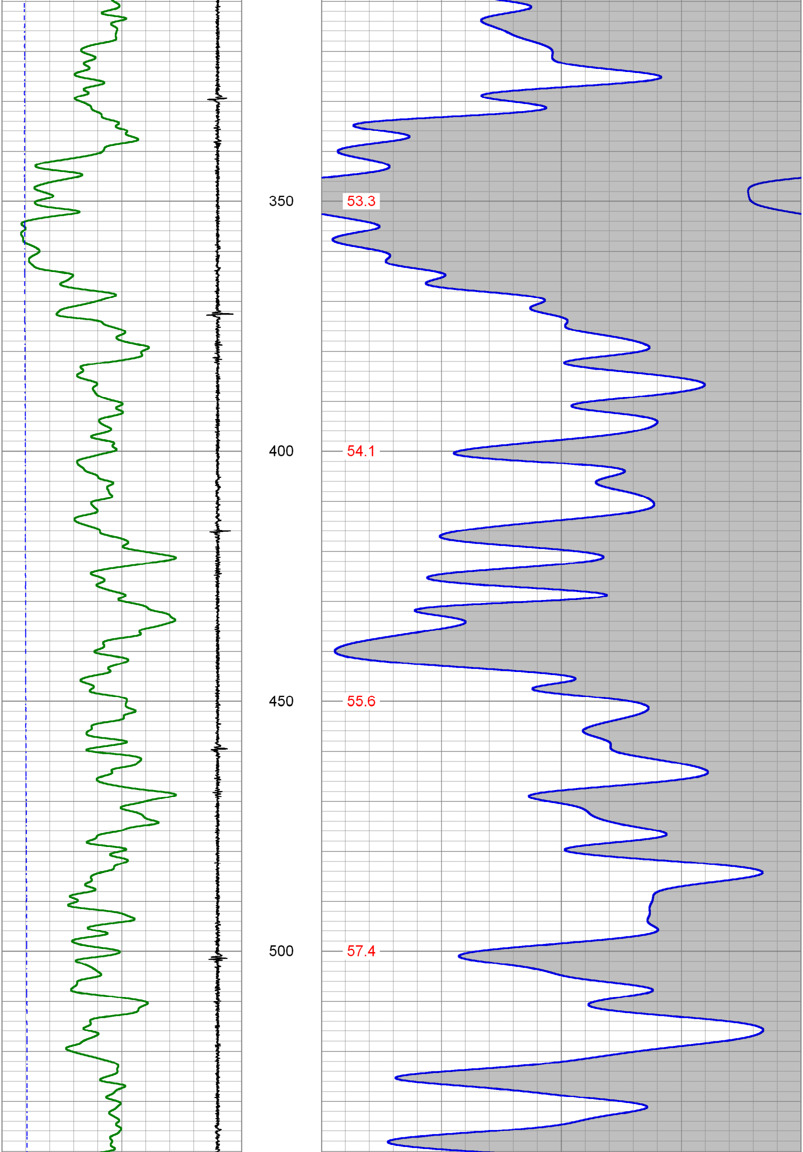
			CNT-275BL (120508) Probe 2.75 Digital CNT	5.00	2.75	76.00
CNLSC	2.05					
CNSSC	1.64					
			Bullnose-Titan GO Pin Pressure Cap	0.27	1.38	1.00

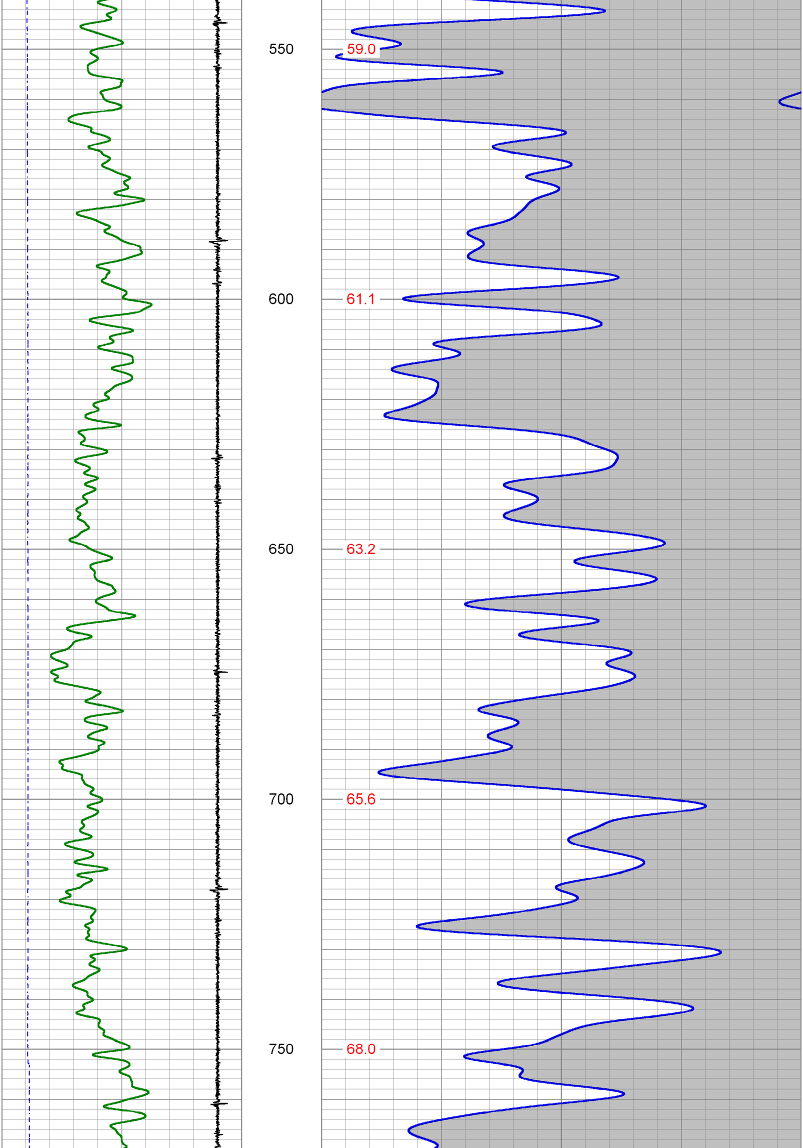
Dataset:	sandridge_pintail_swd_0780_2-16d.db: field/well/run1/pass21
Total length:	24.61 ft
Total weight:	214.00 lb
O.D.:	2.75 in

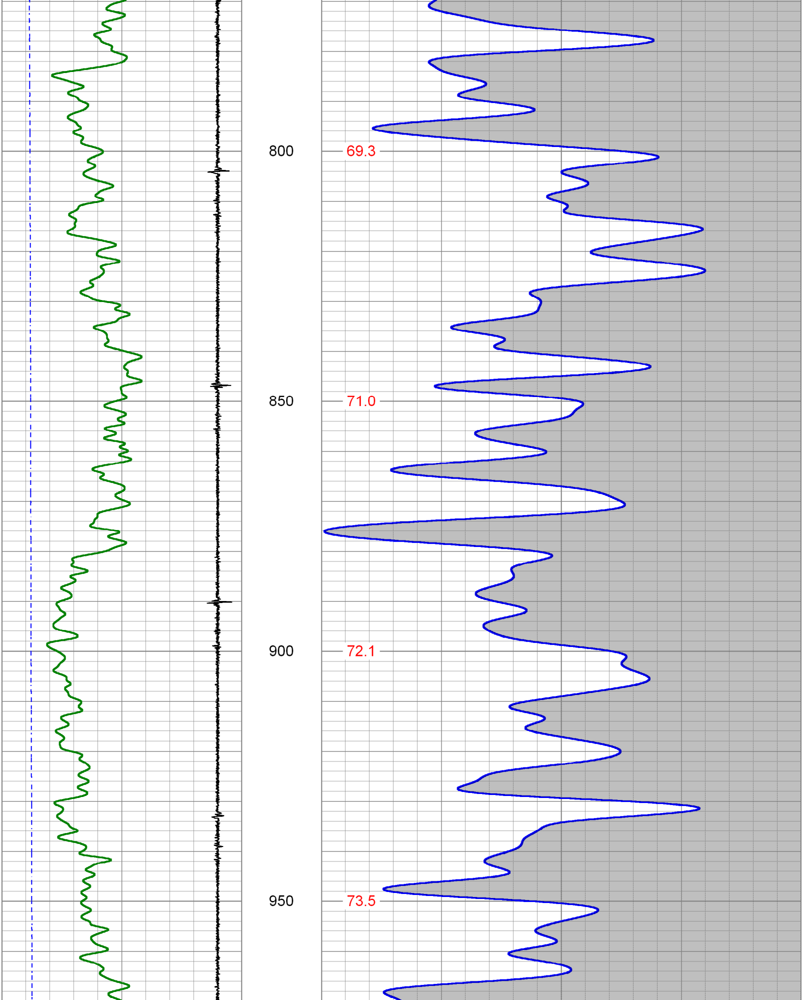
Database File	sandridge_pintail_swd_0780_2-16d.db
Dataset Pathname	pass23_cnl
Presentation Format	pinr_cnl
Dataset Creation	Sat Feb 17 18:44:04 2018
Charted by	Depth in Feet scaled 1:240

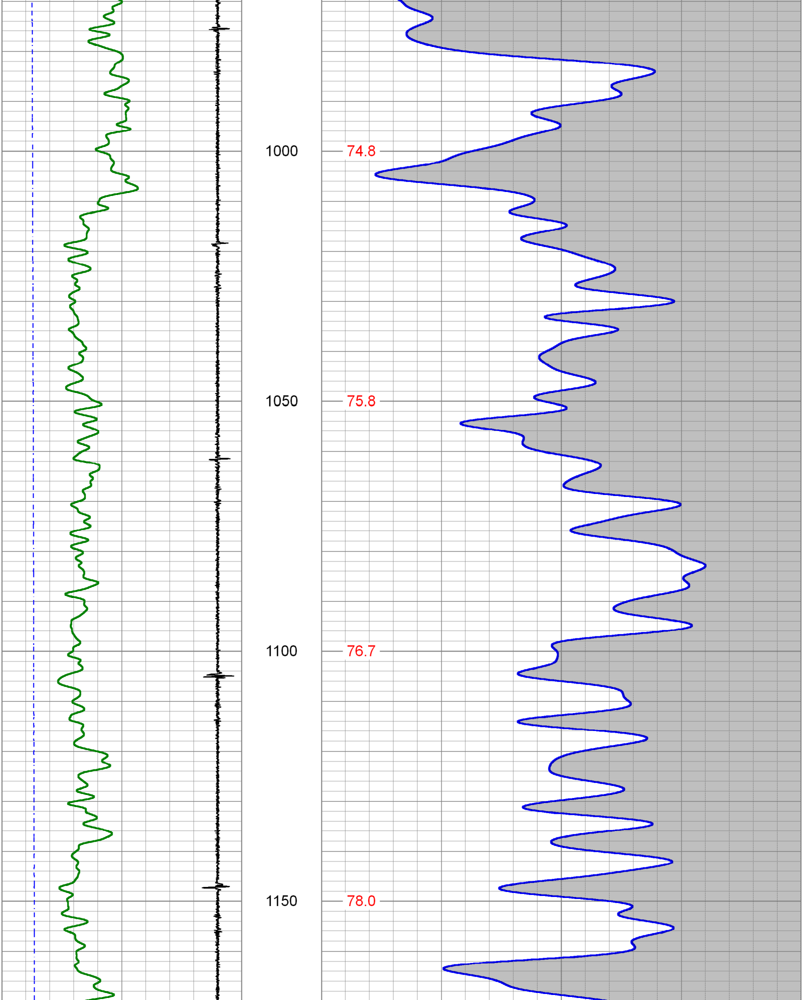


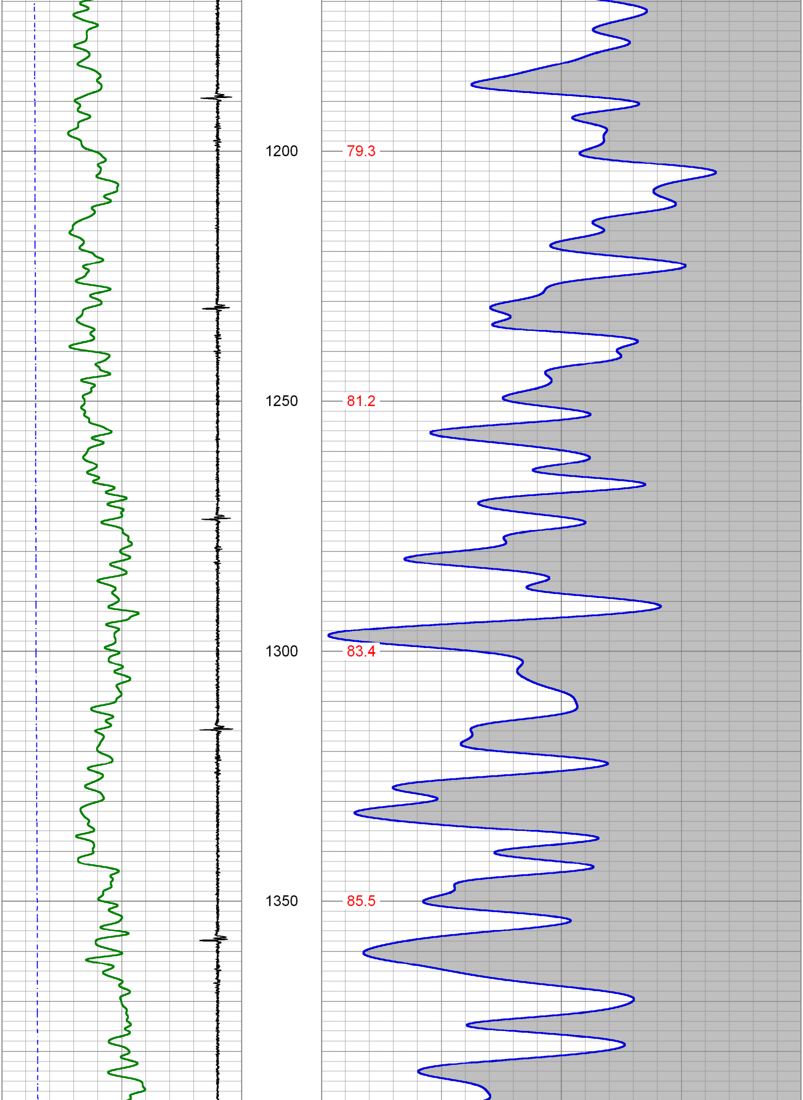


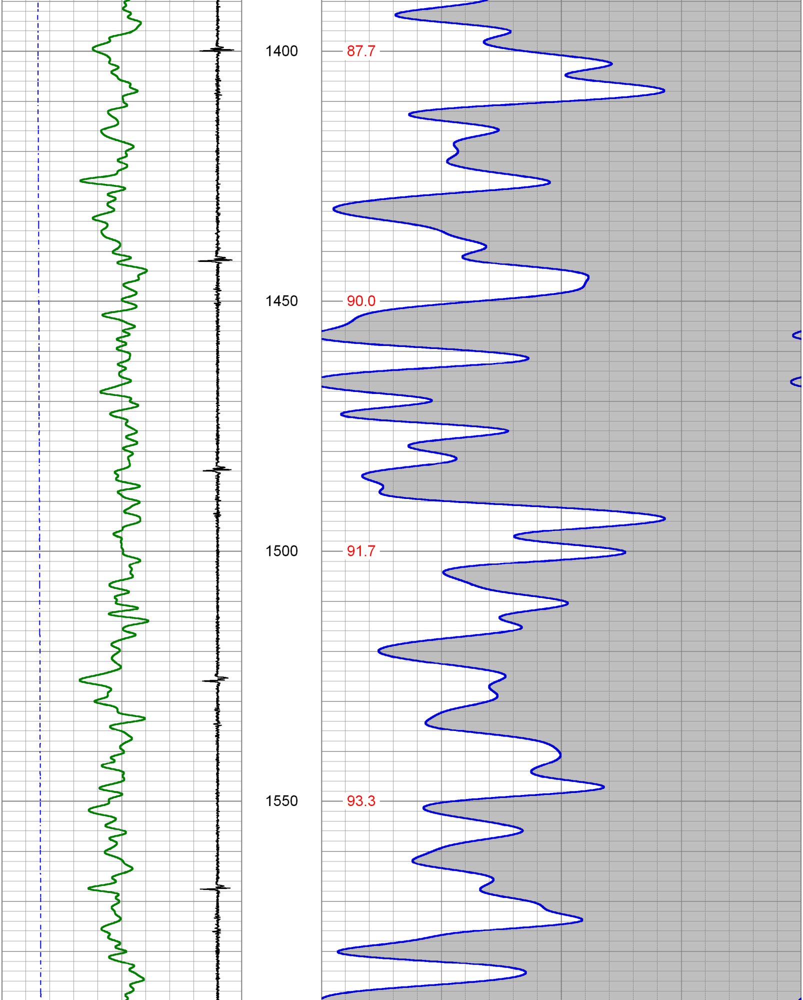


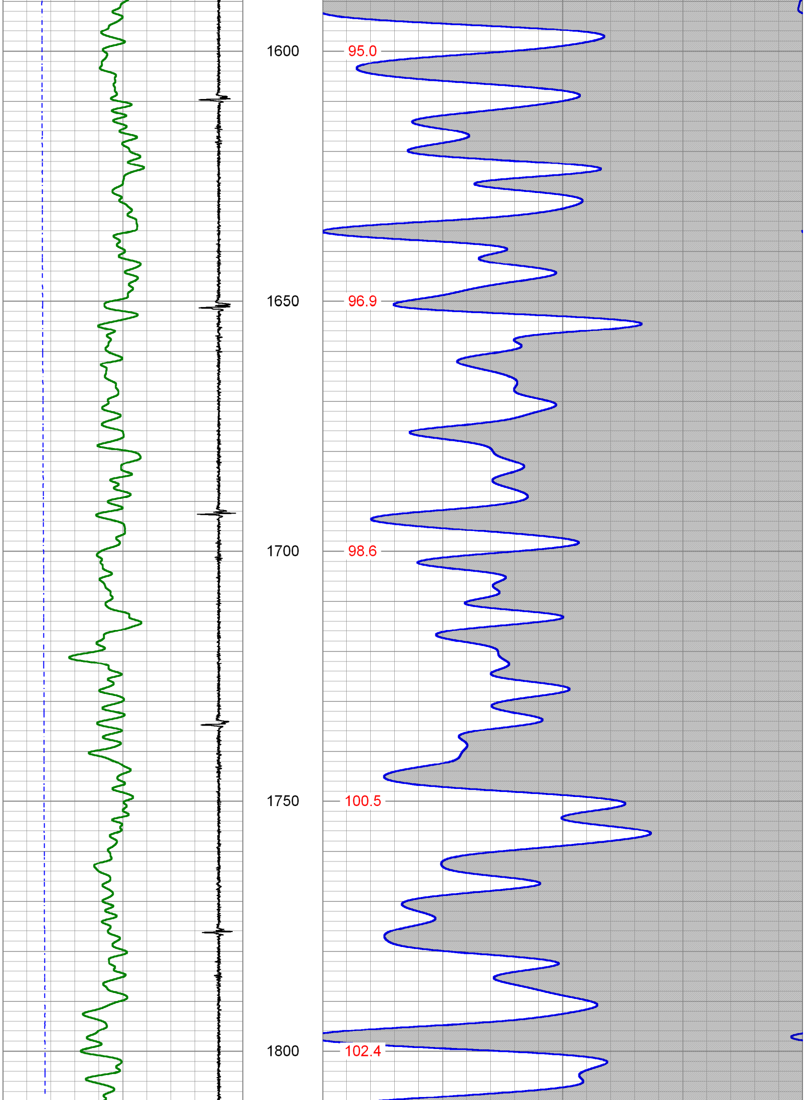


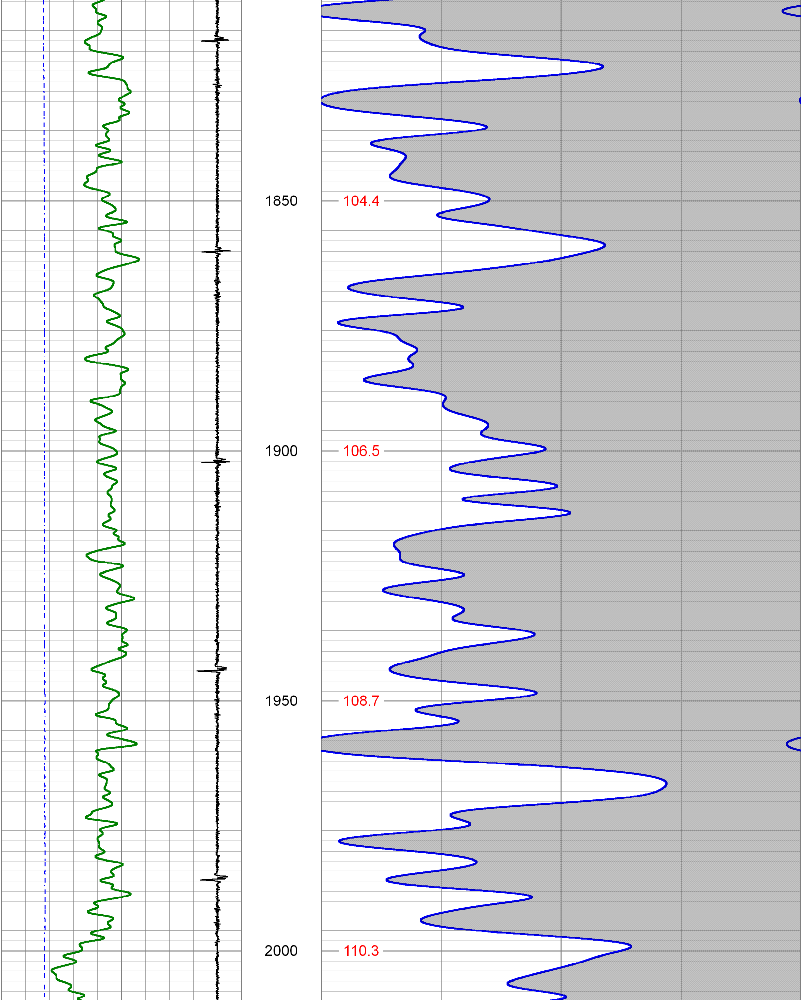


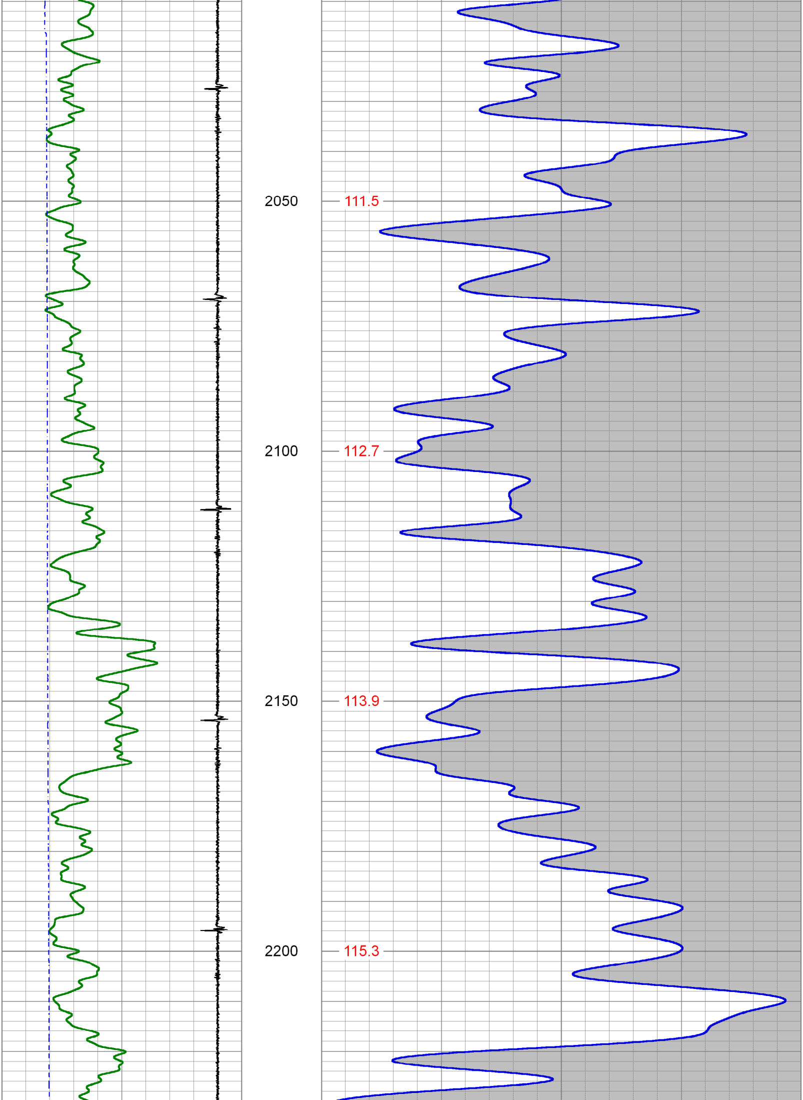


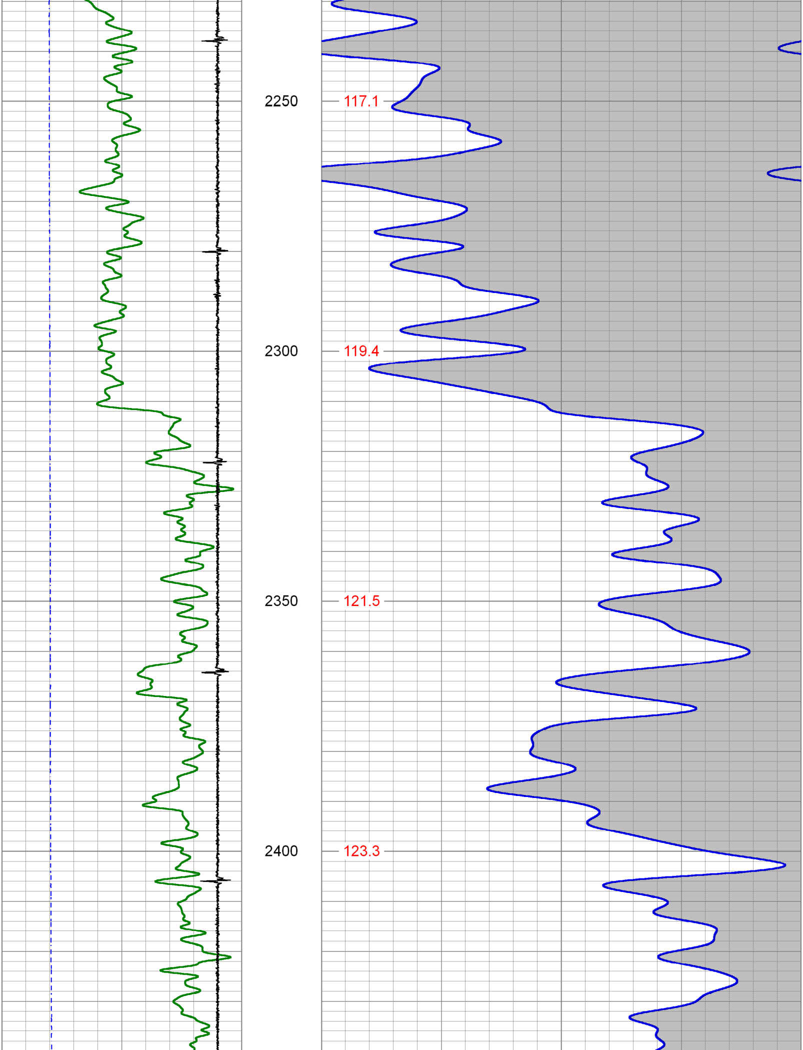


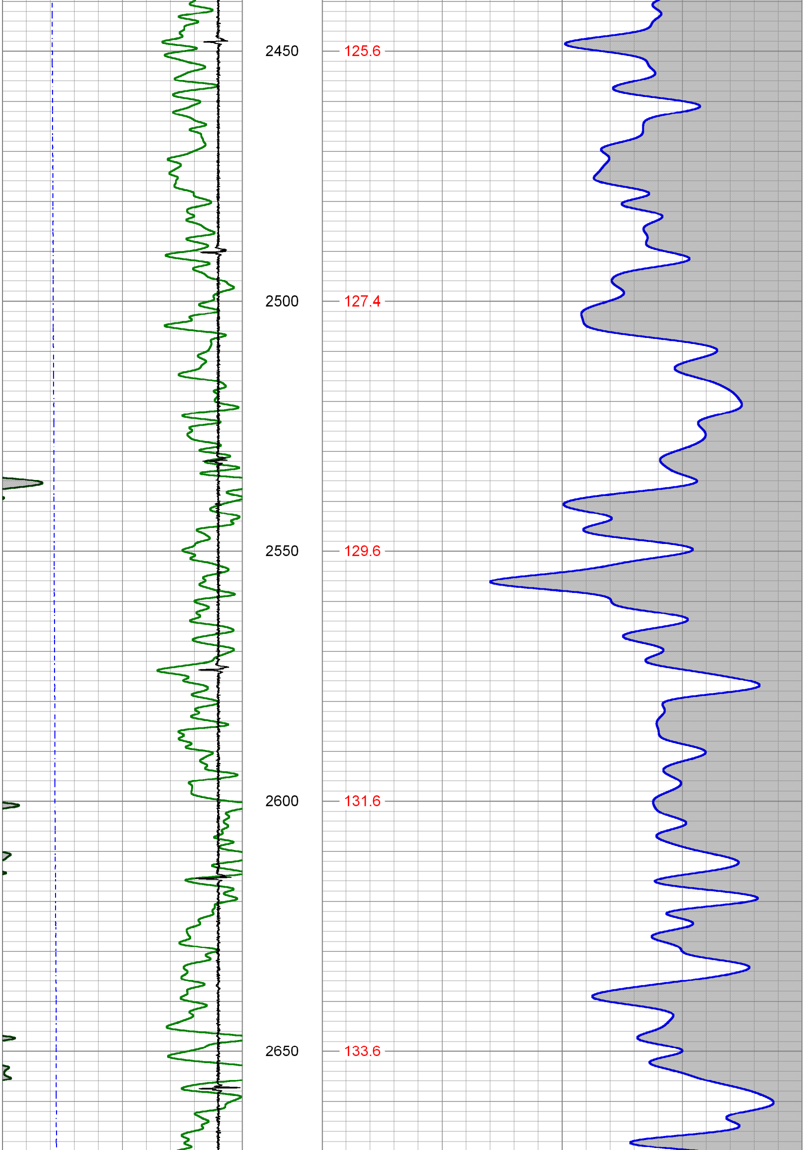


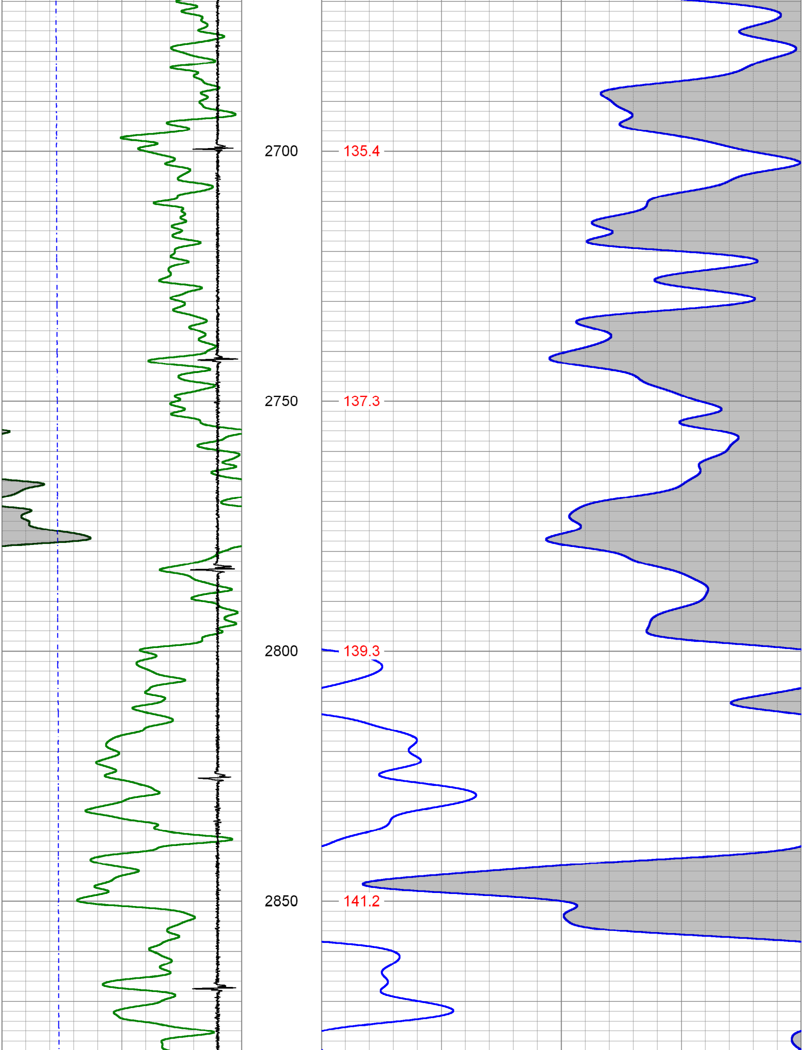


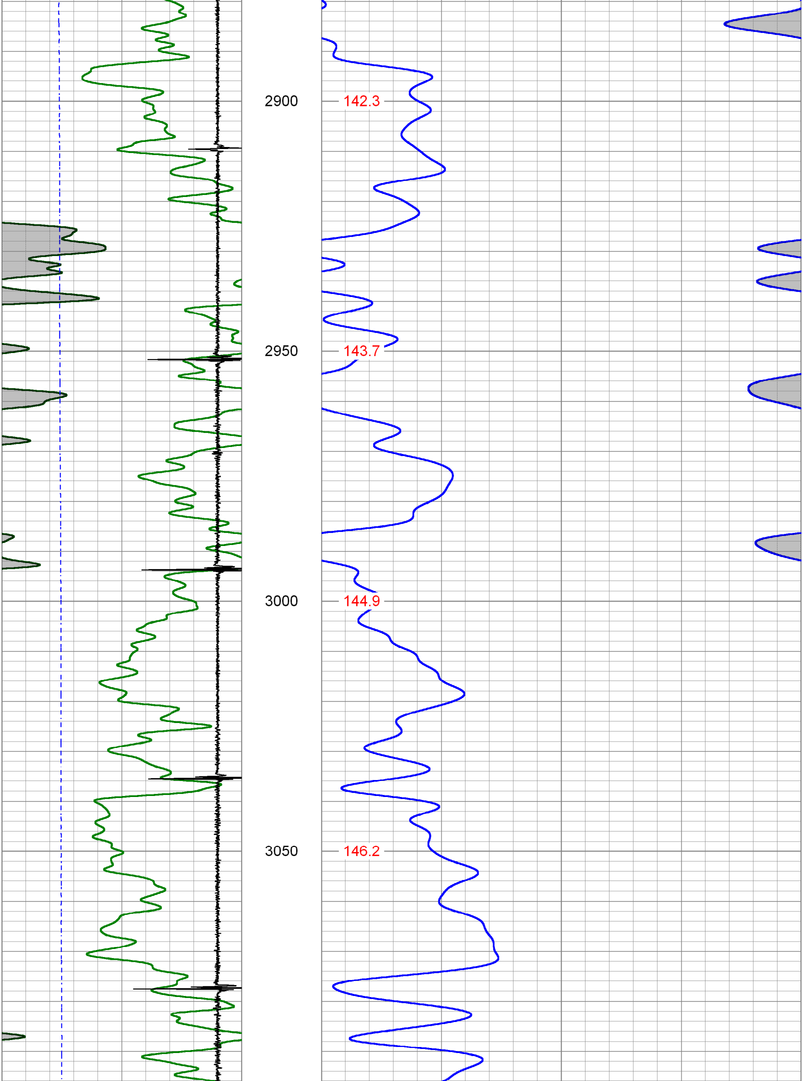


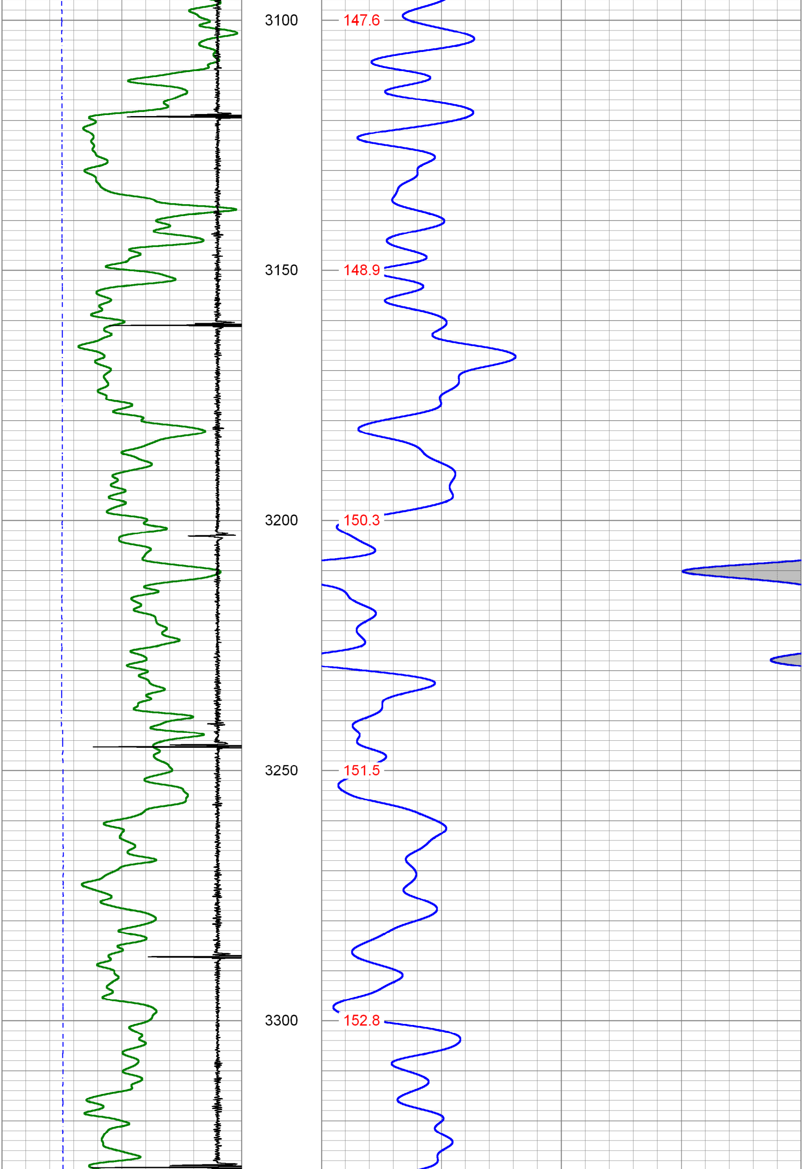


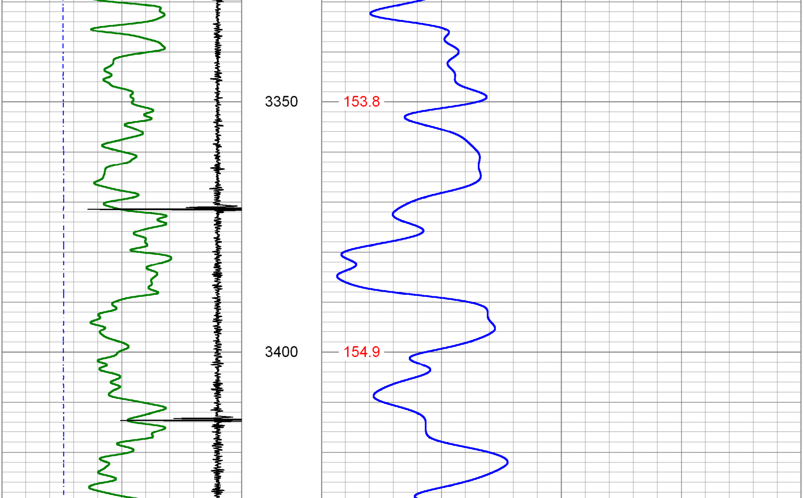


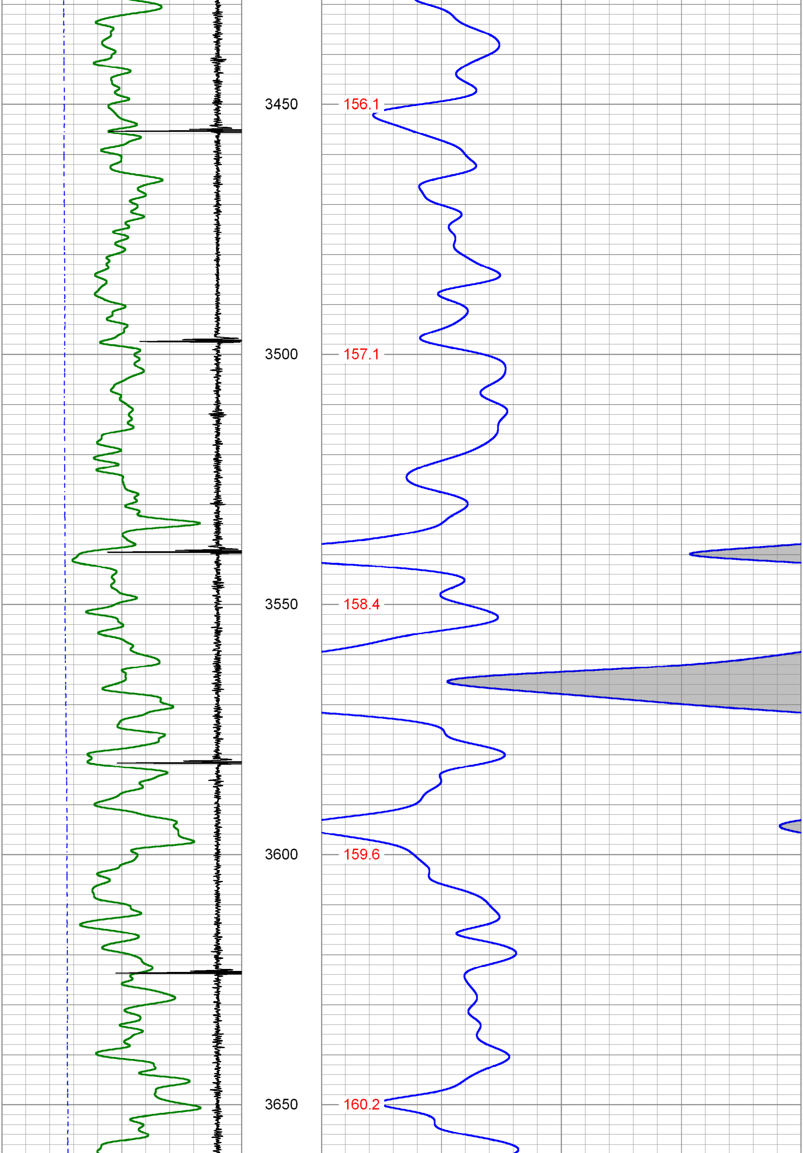








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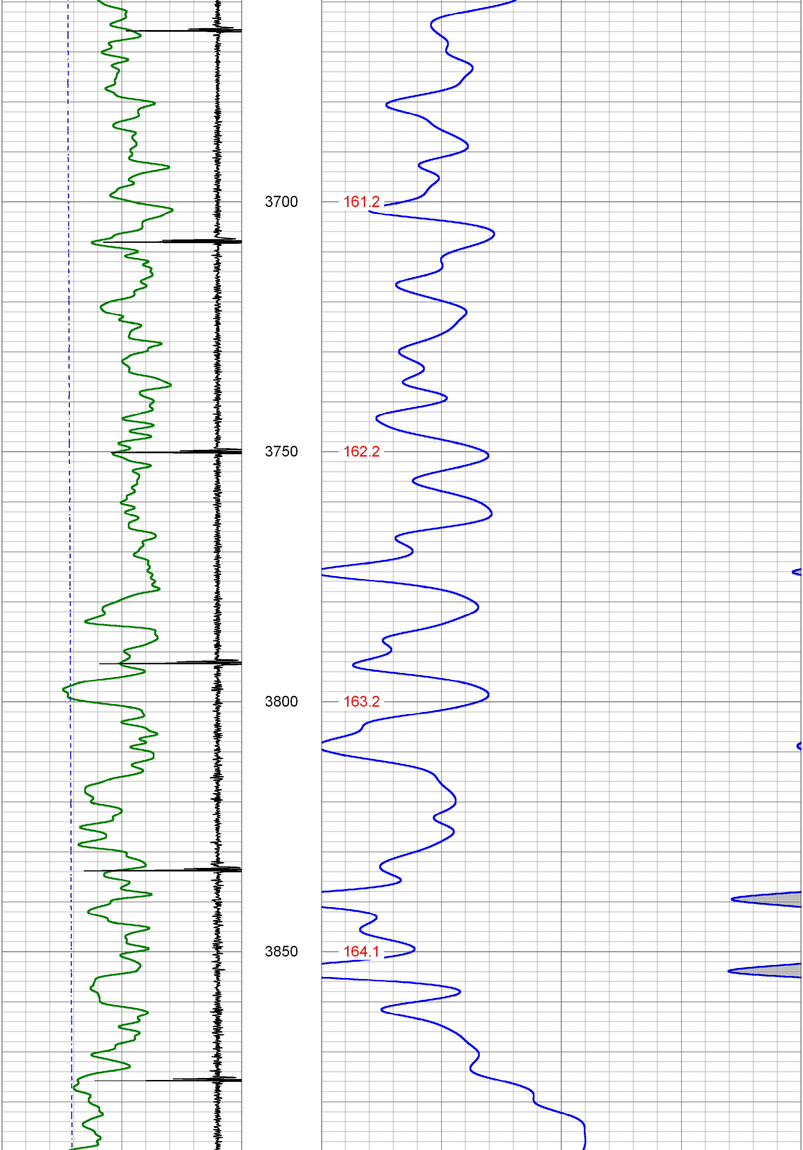
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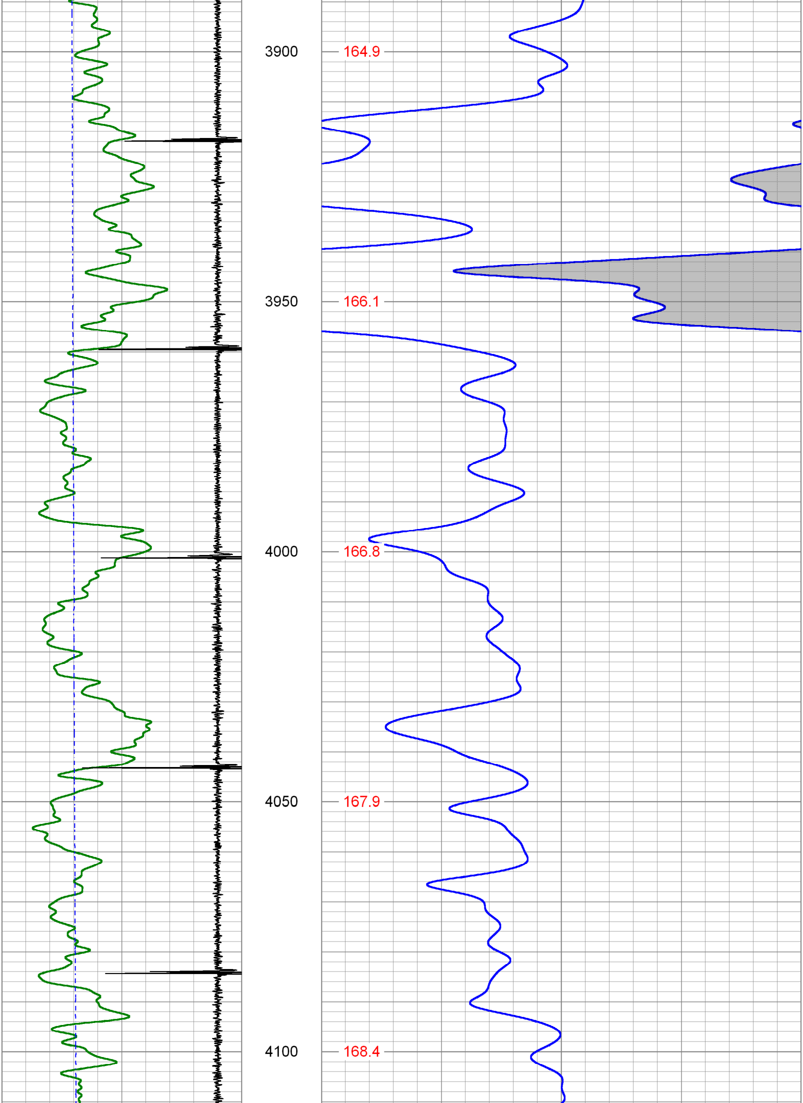

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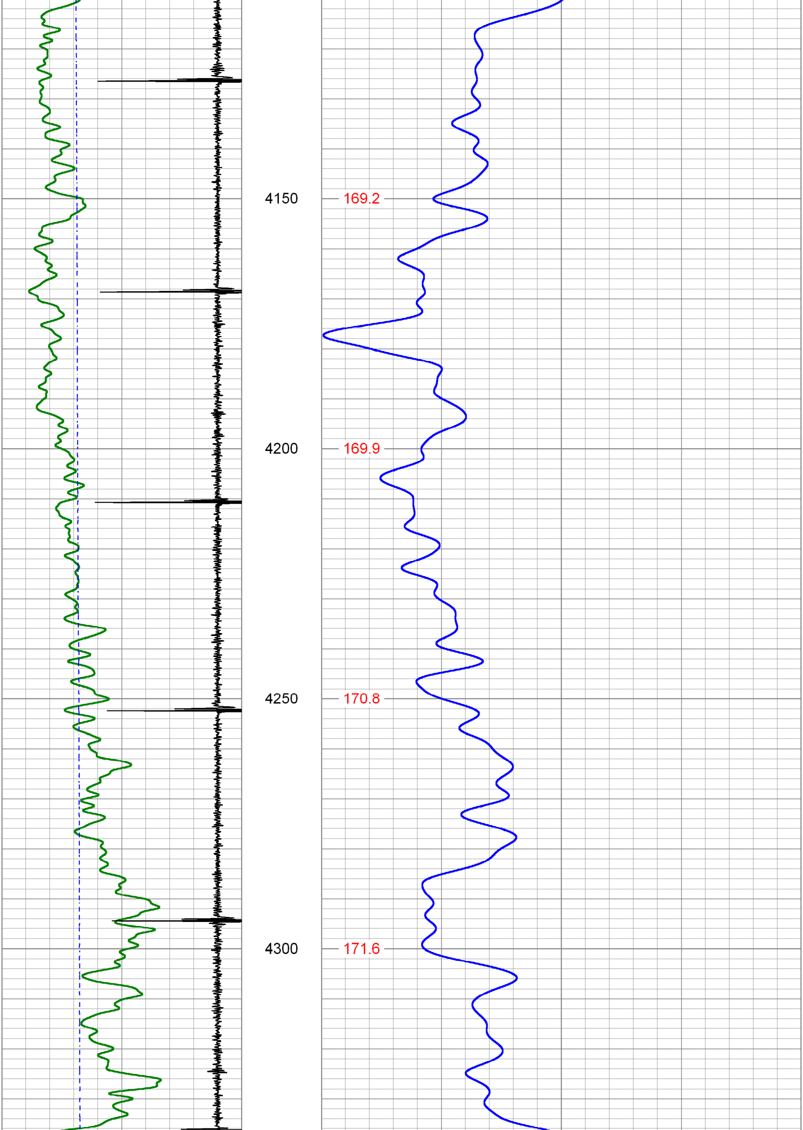
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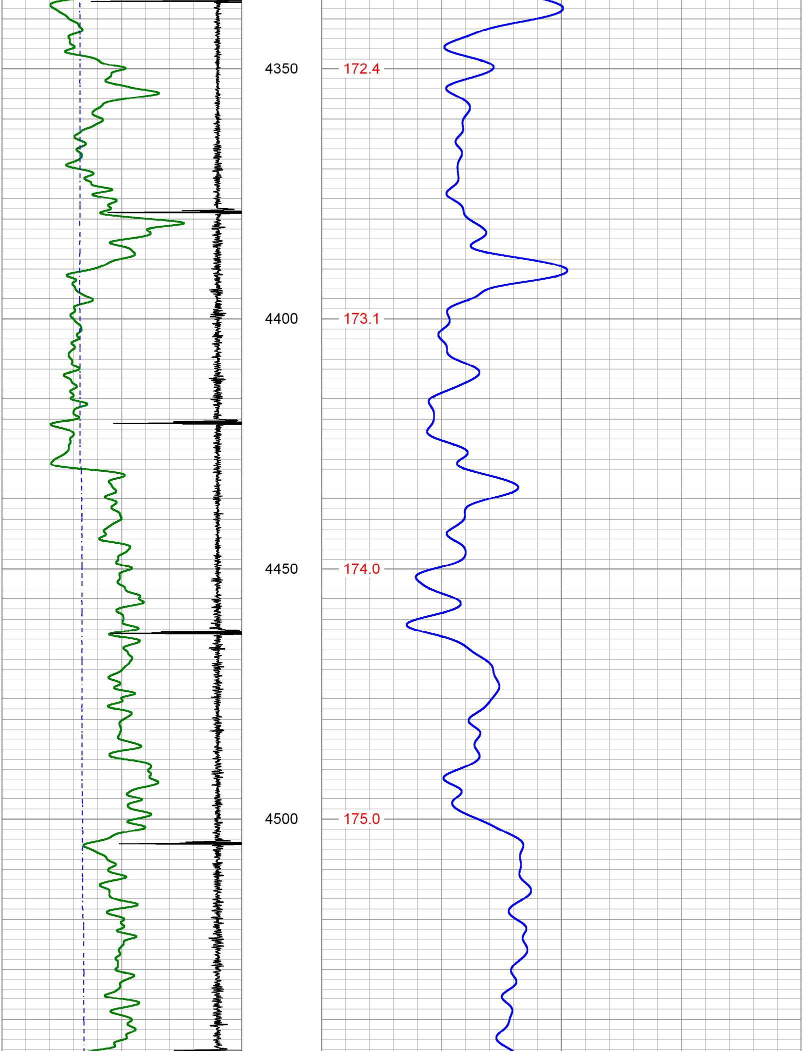
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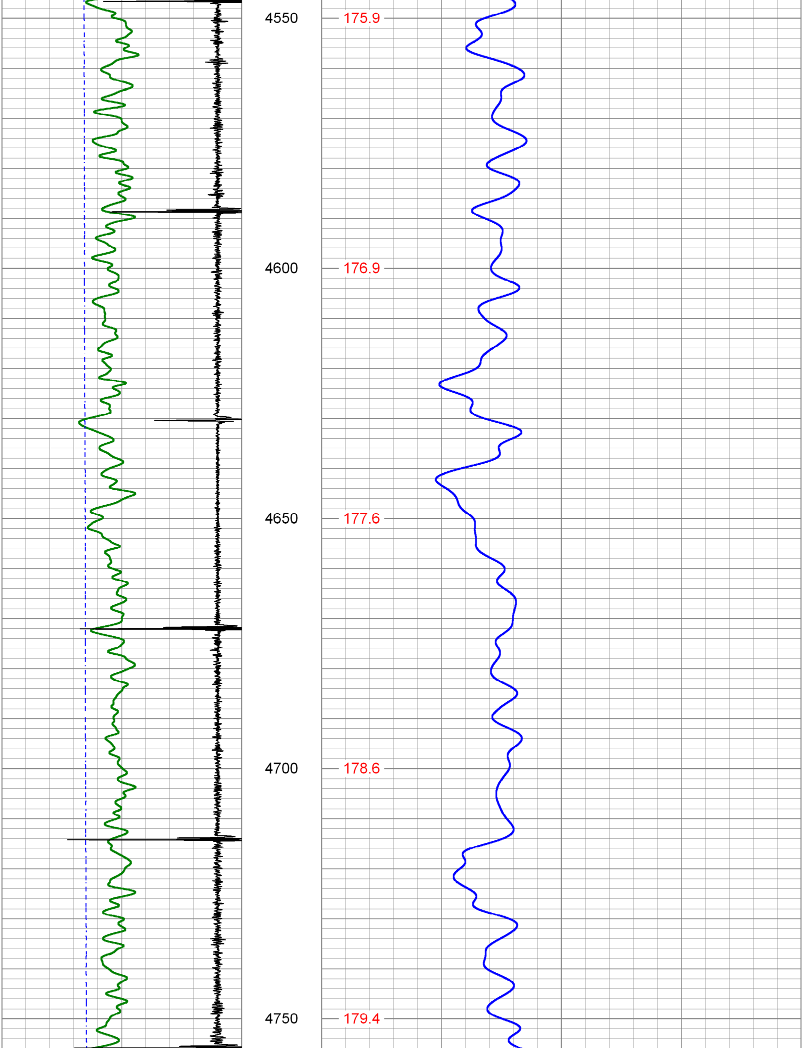
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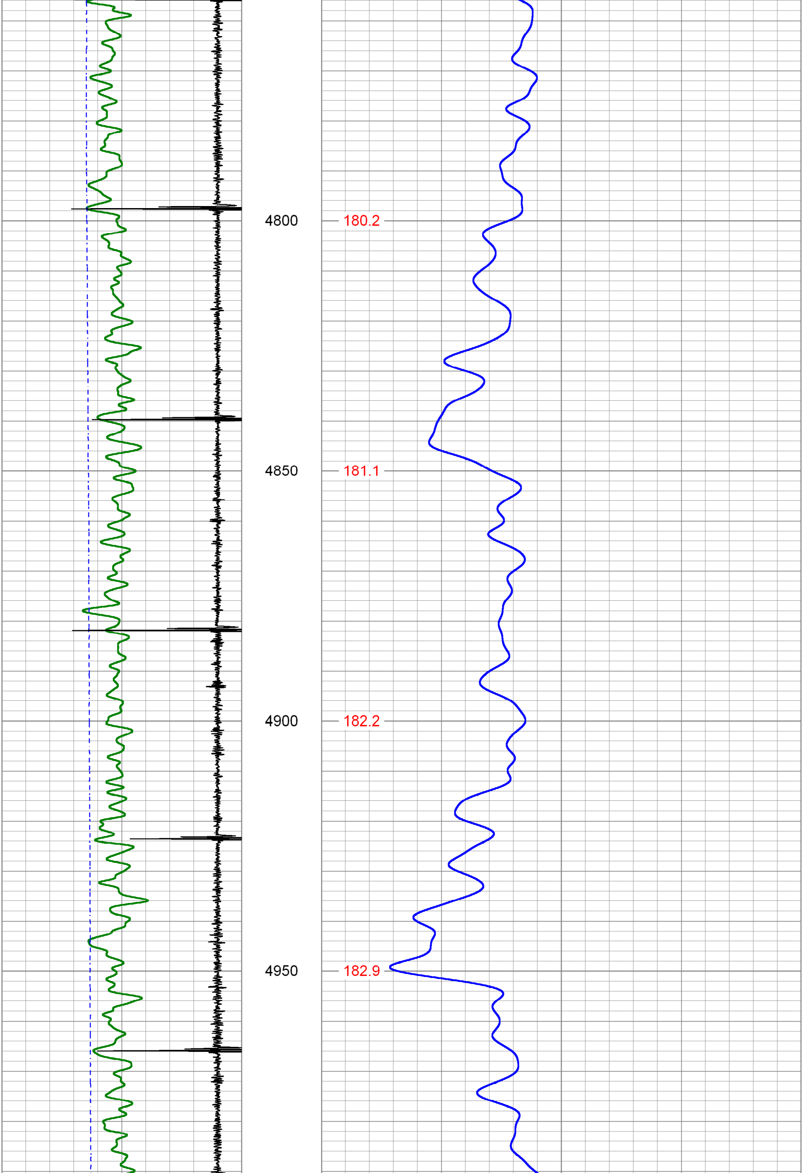
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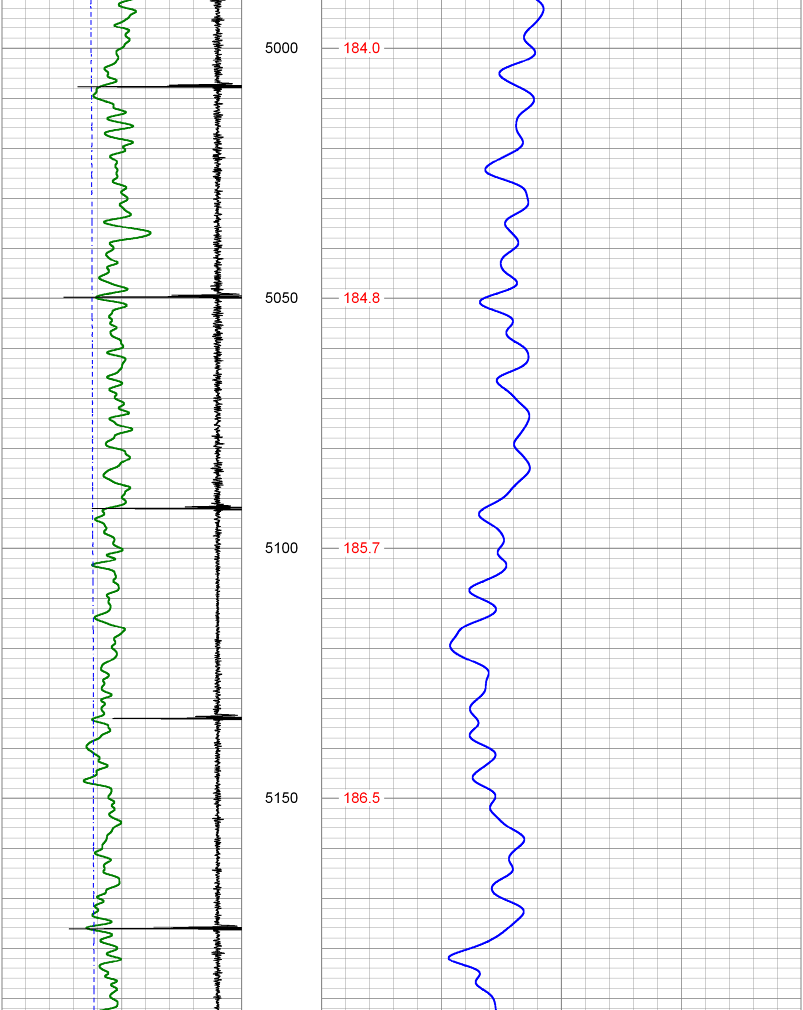
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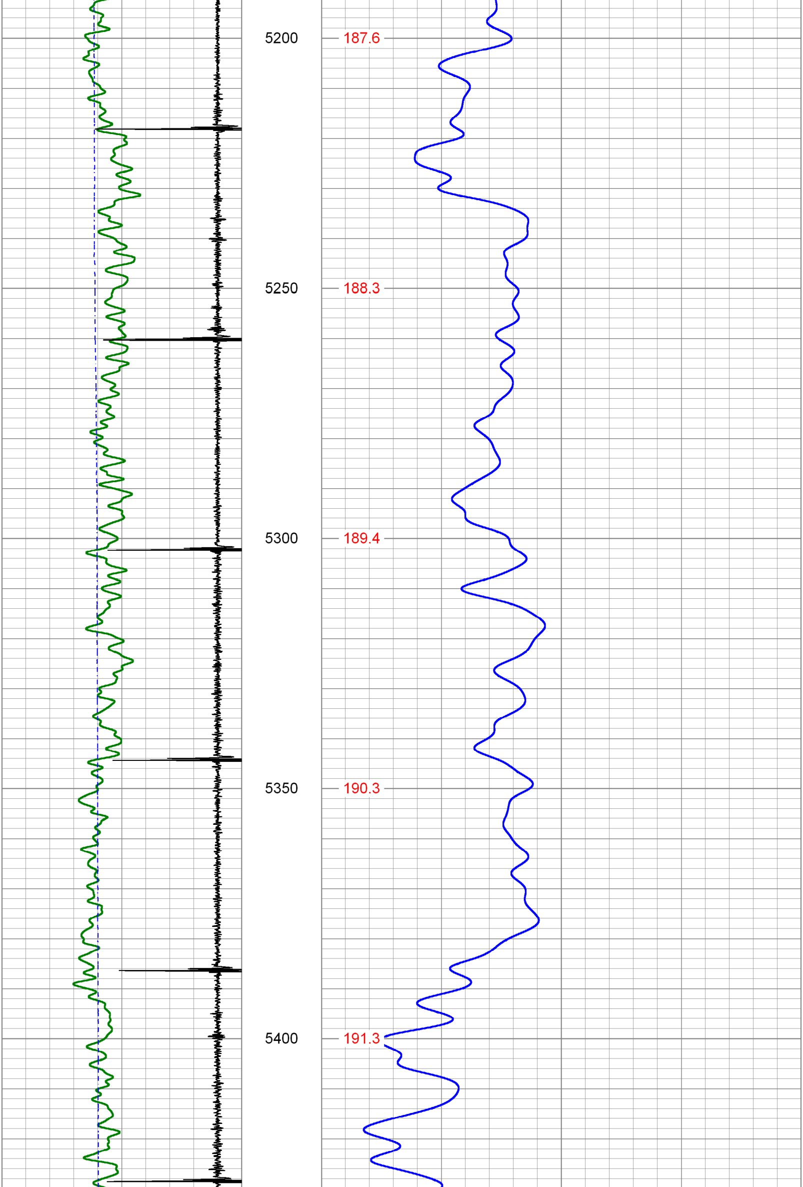
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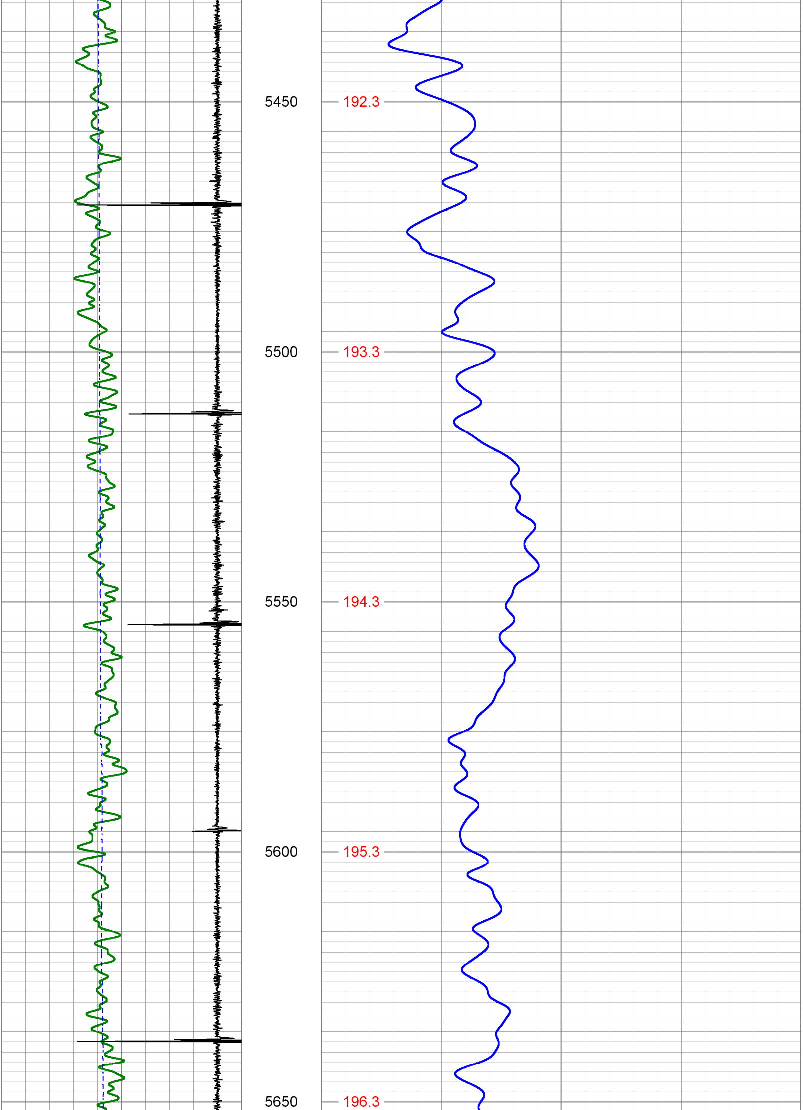
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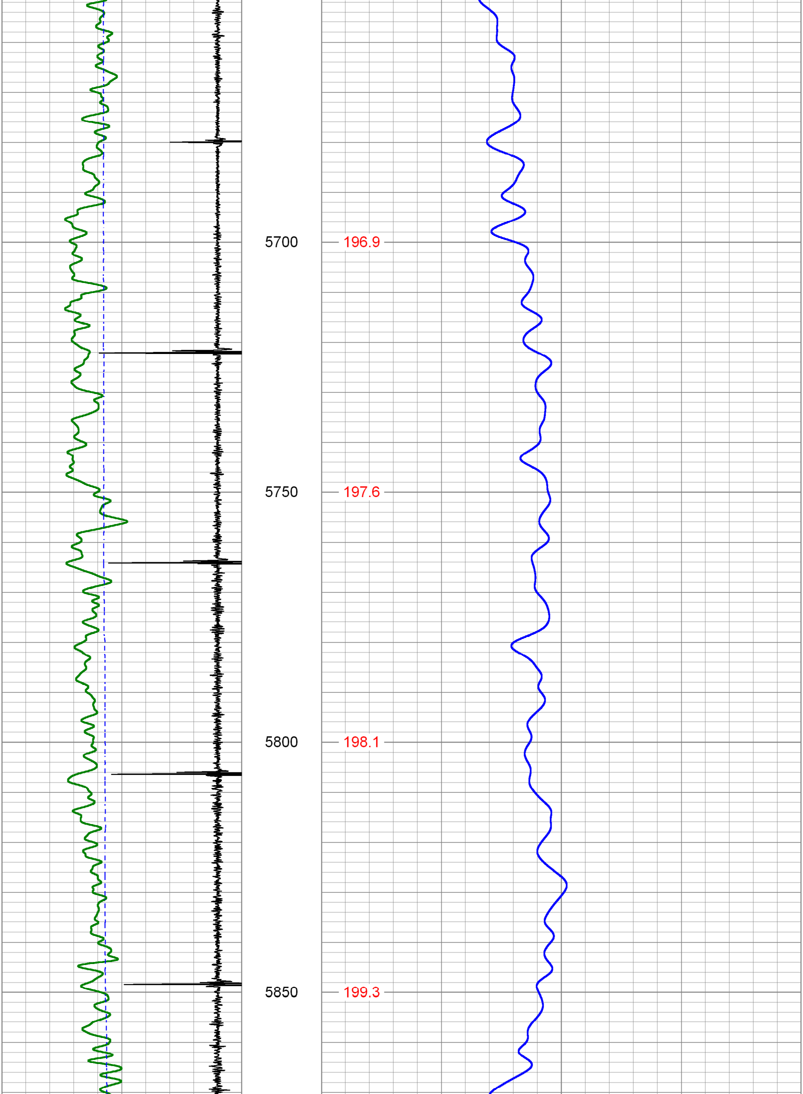
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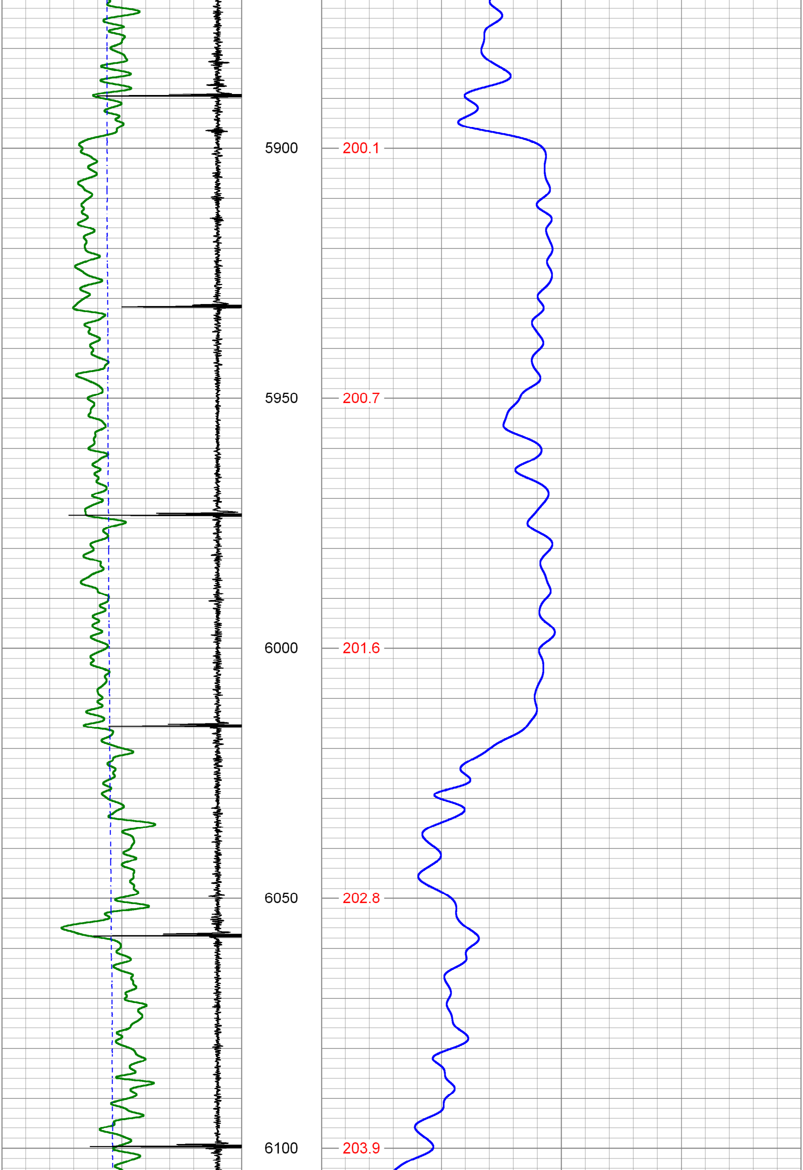
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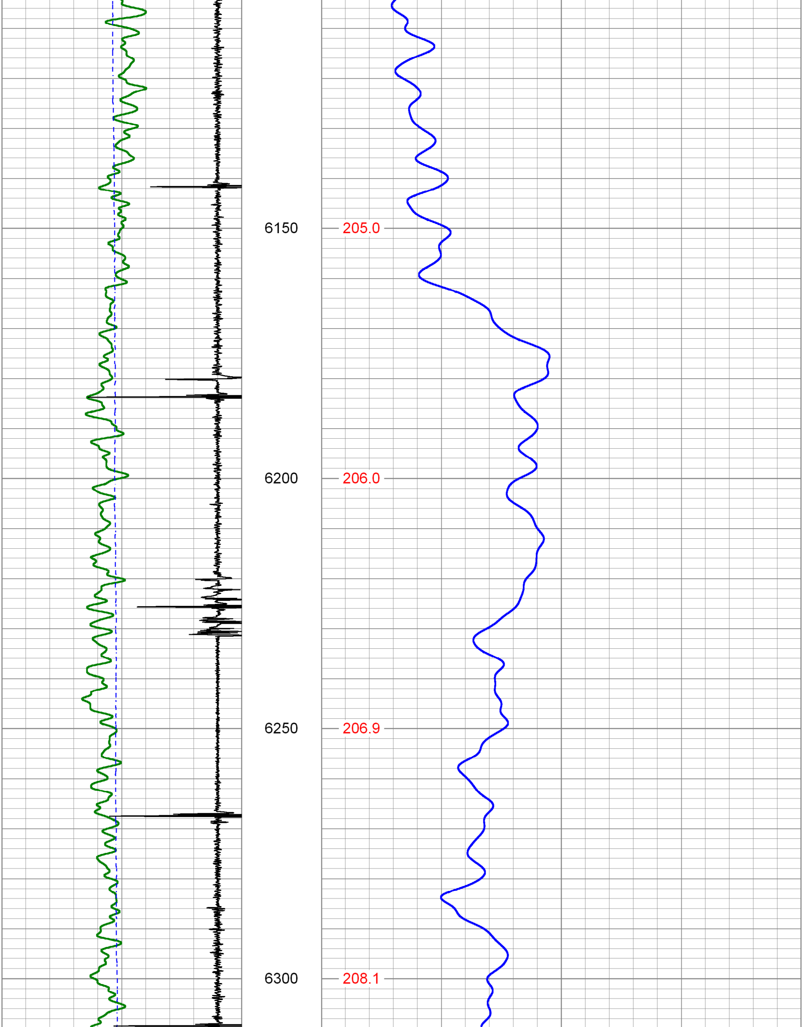
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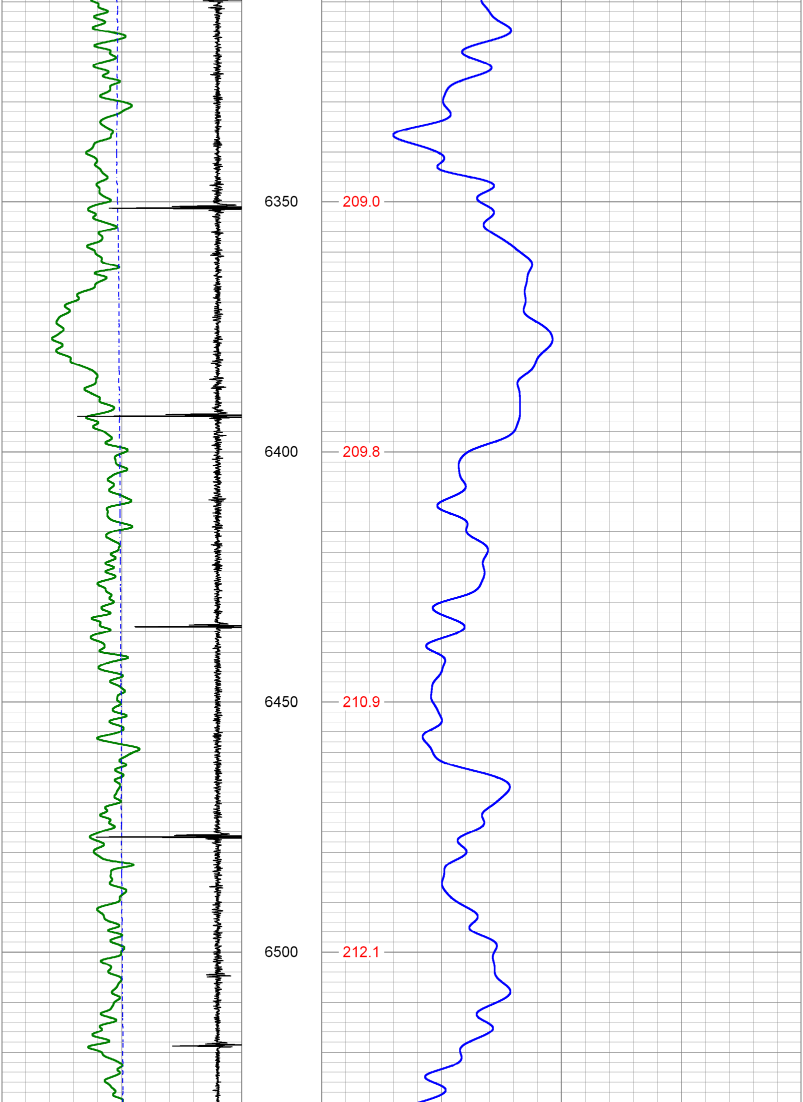
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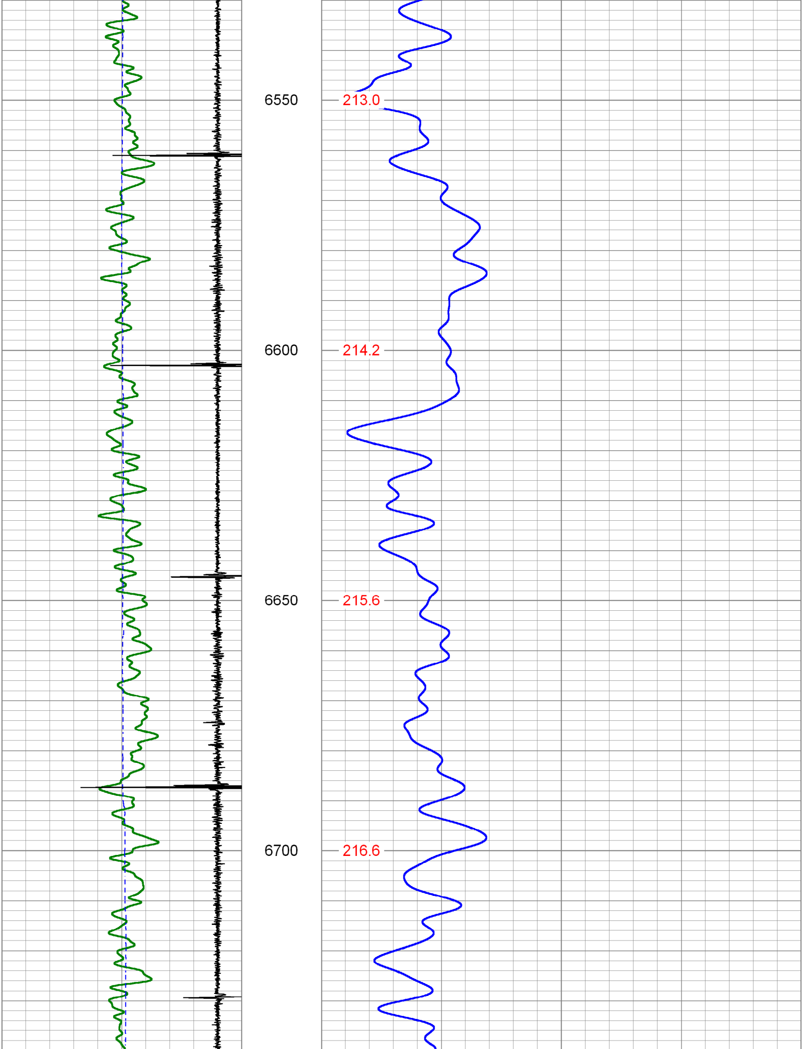
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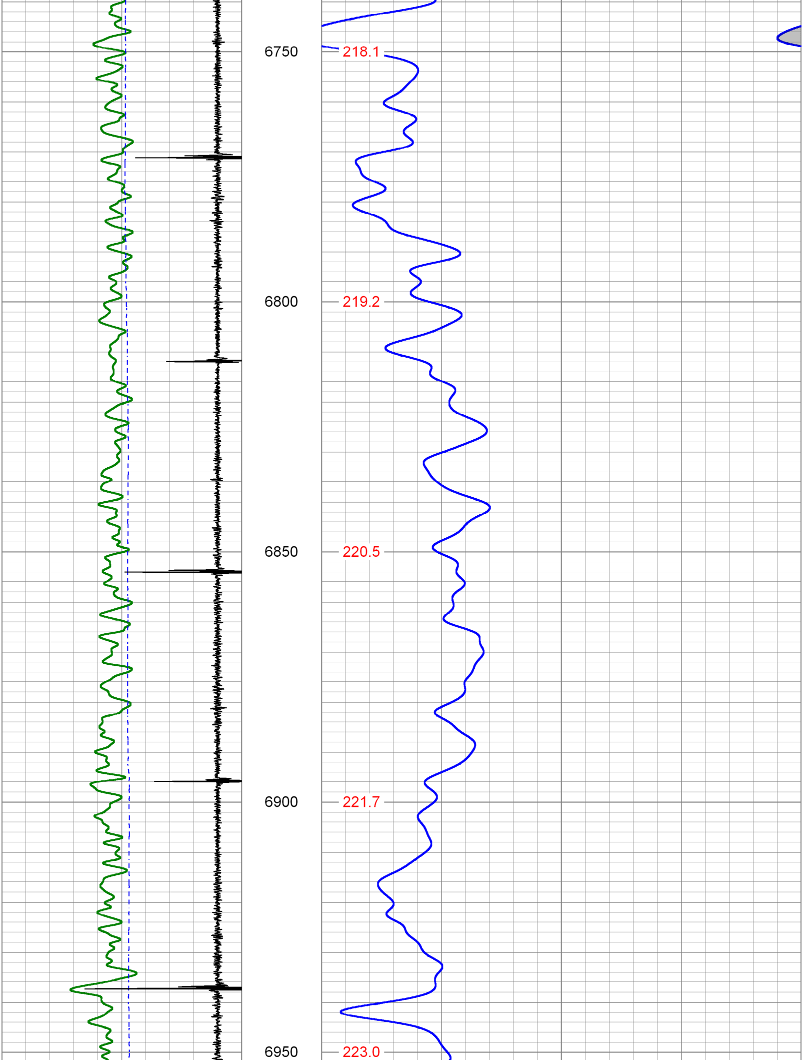
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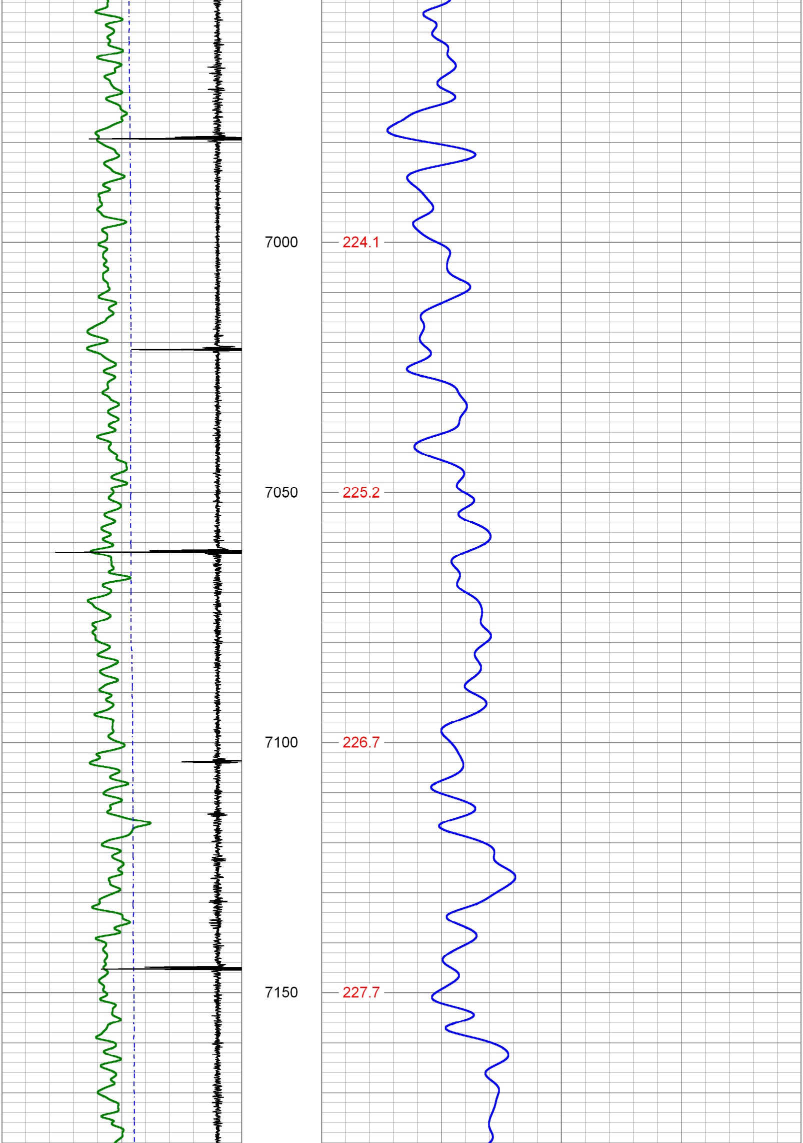
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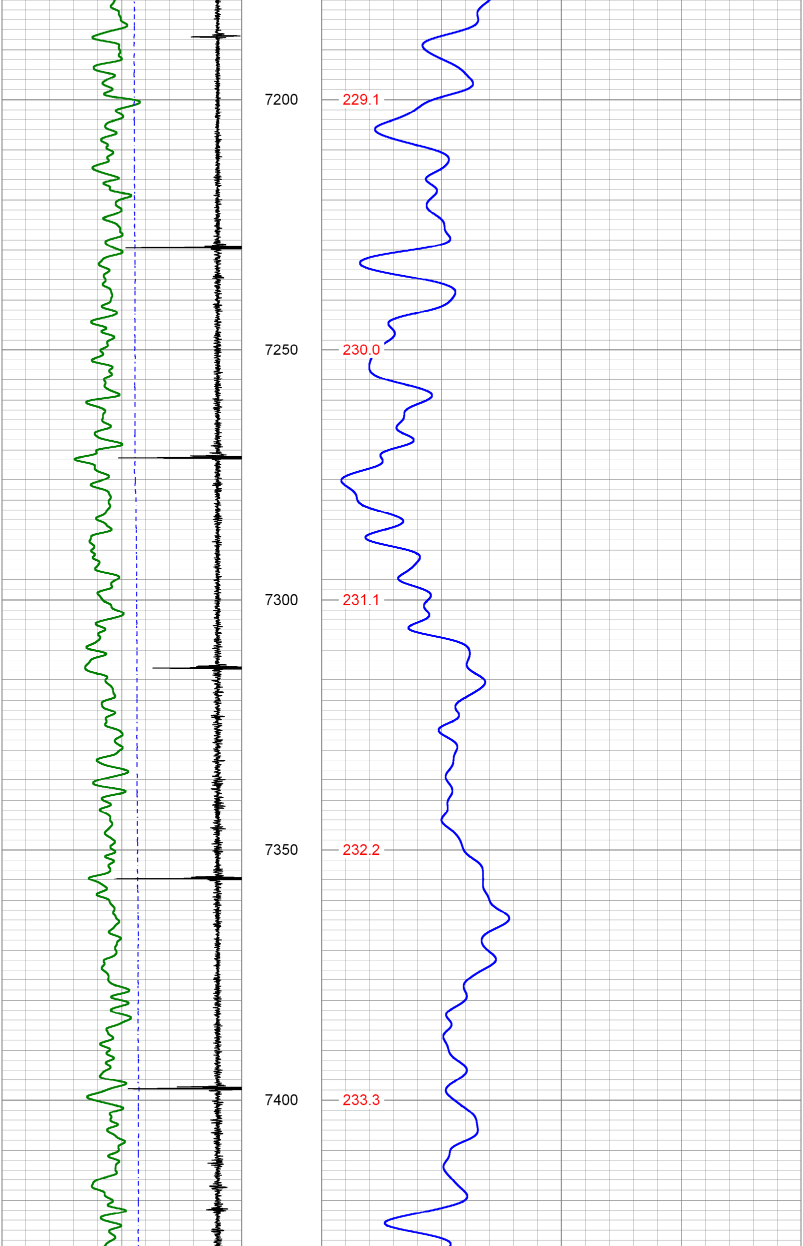
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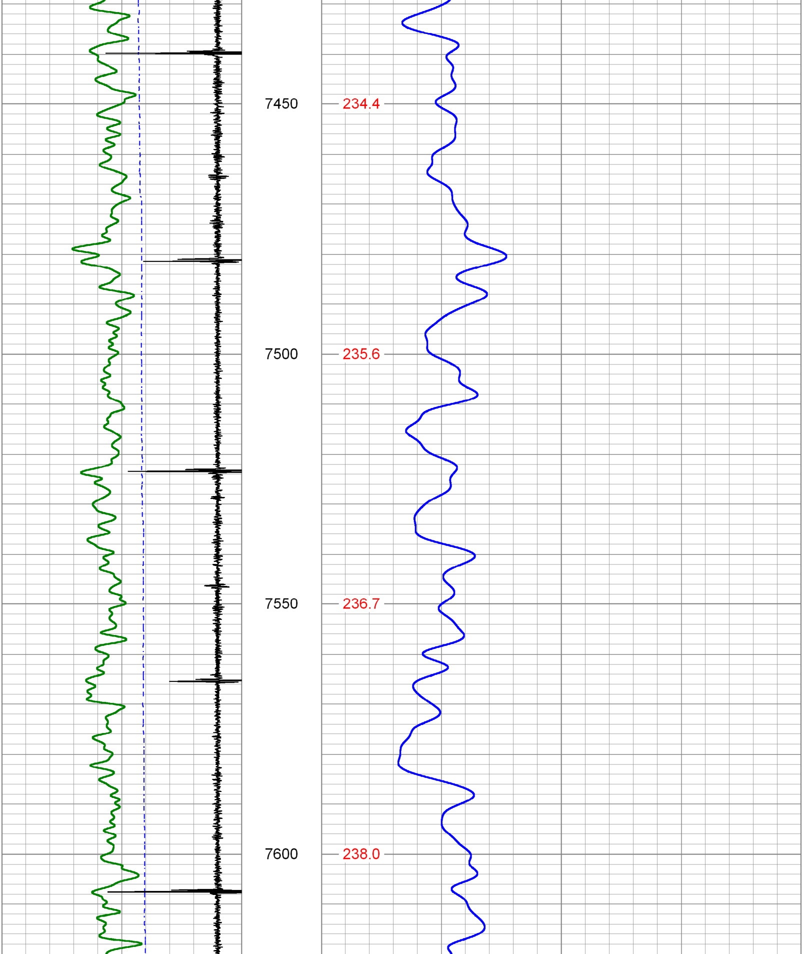

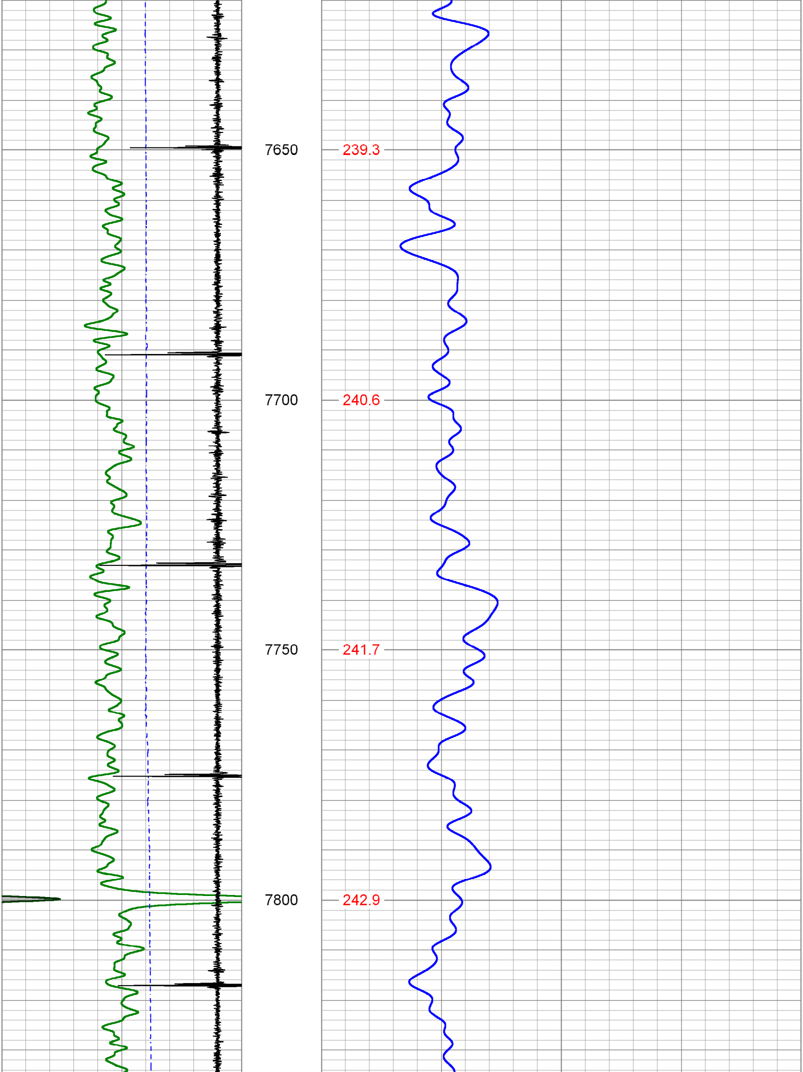

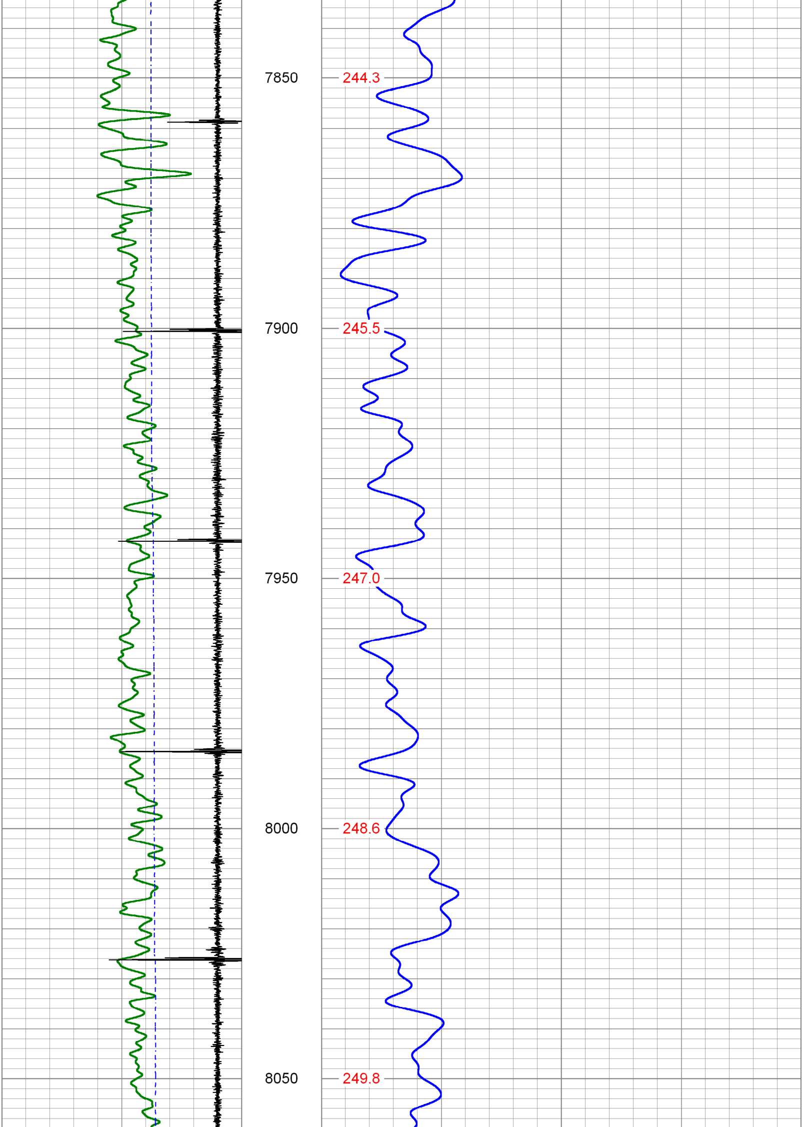

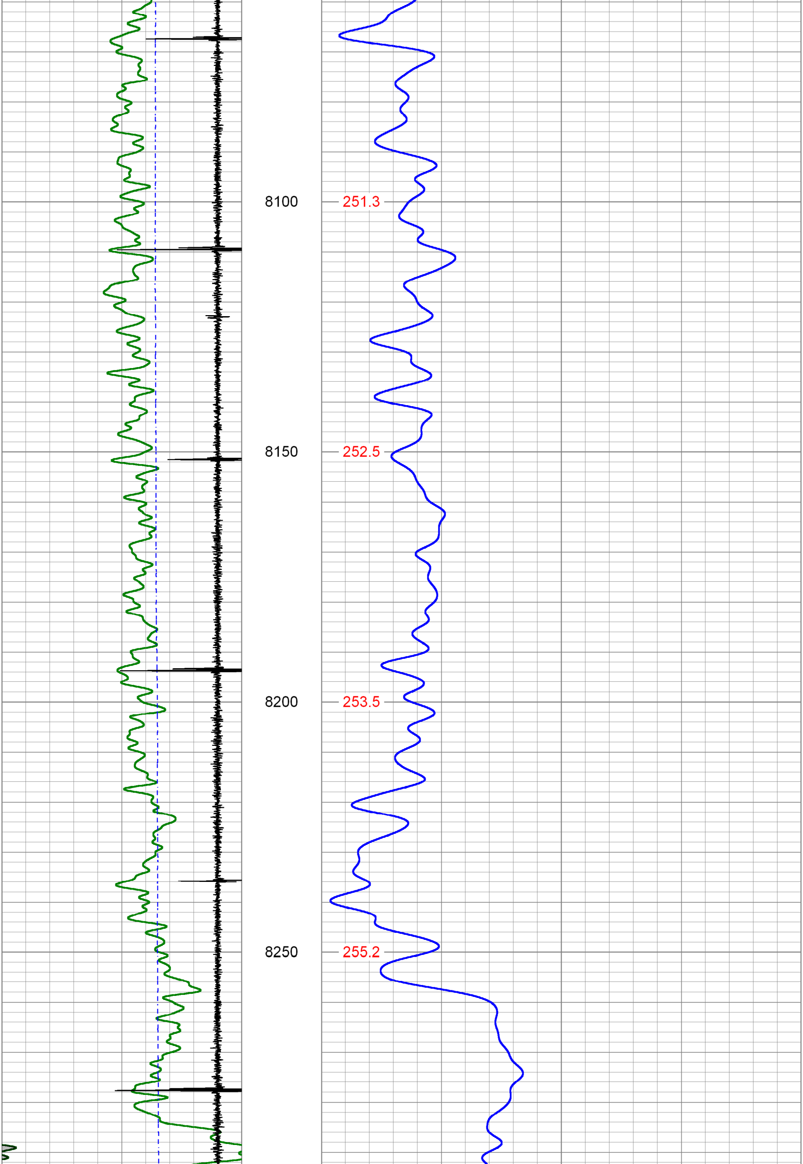

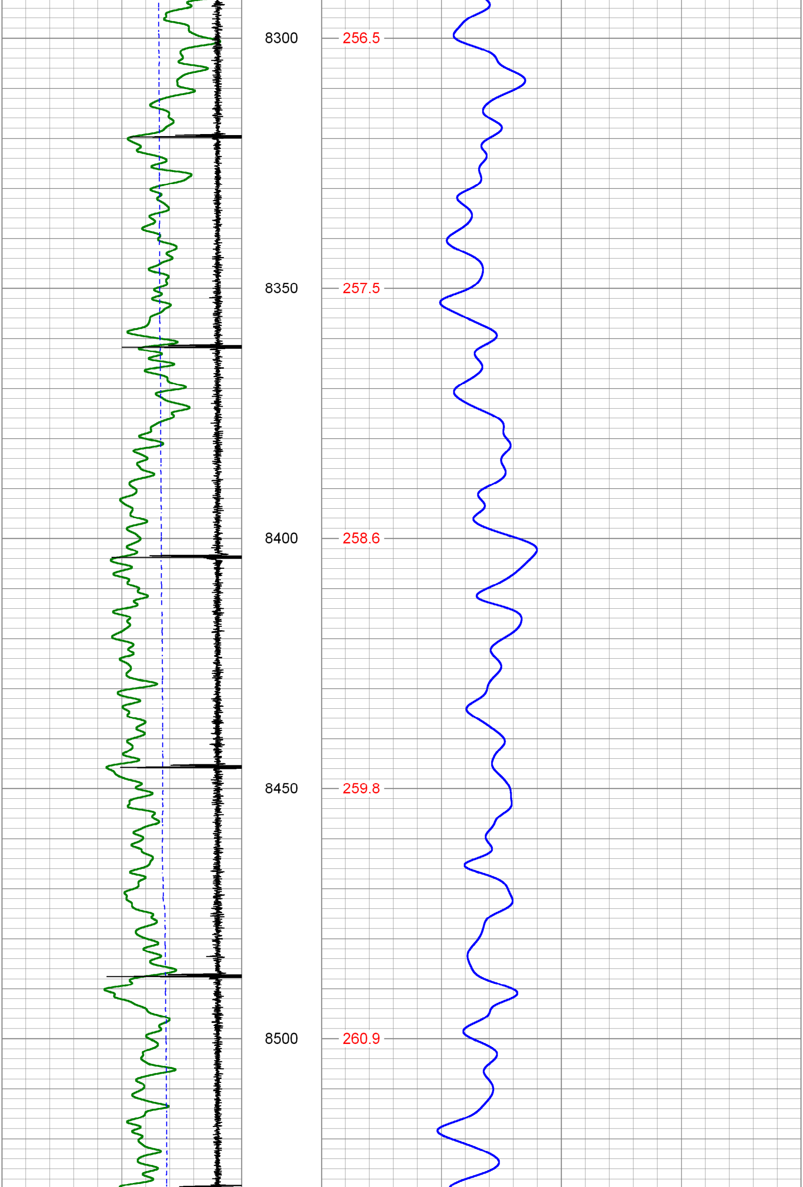

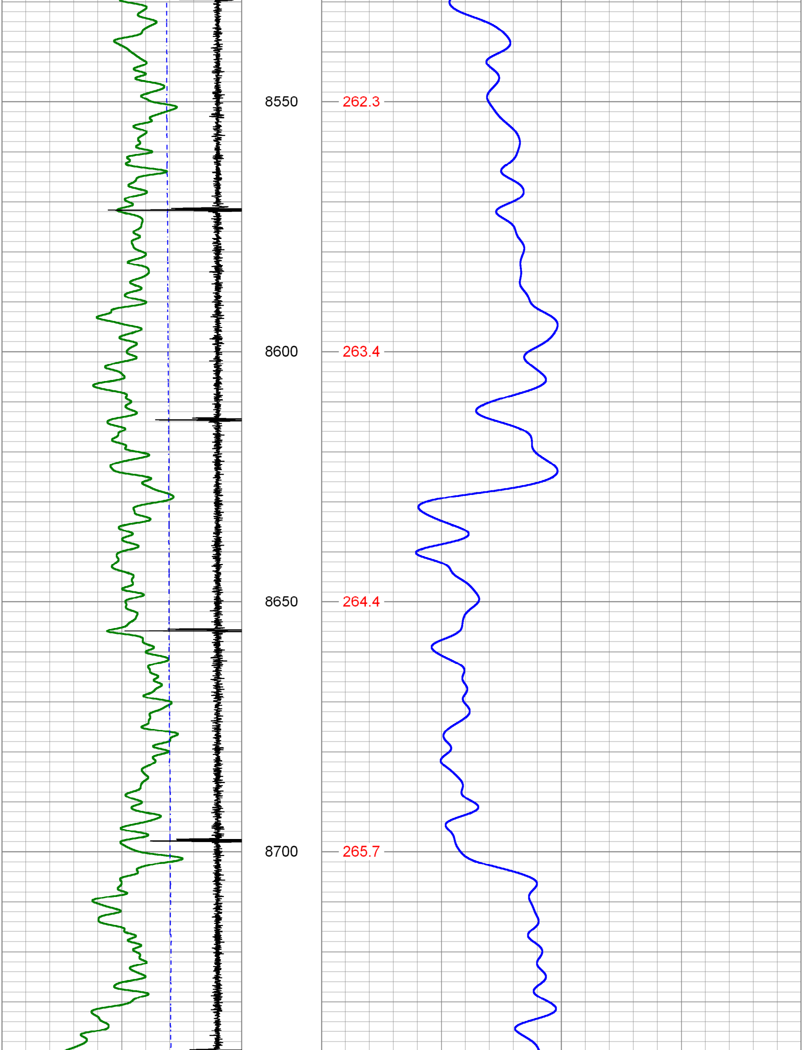

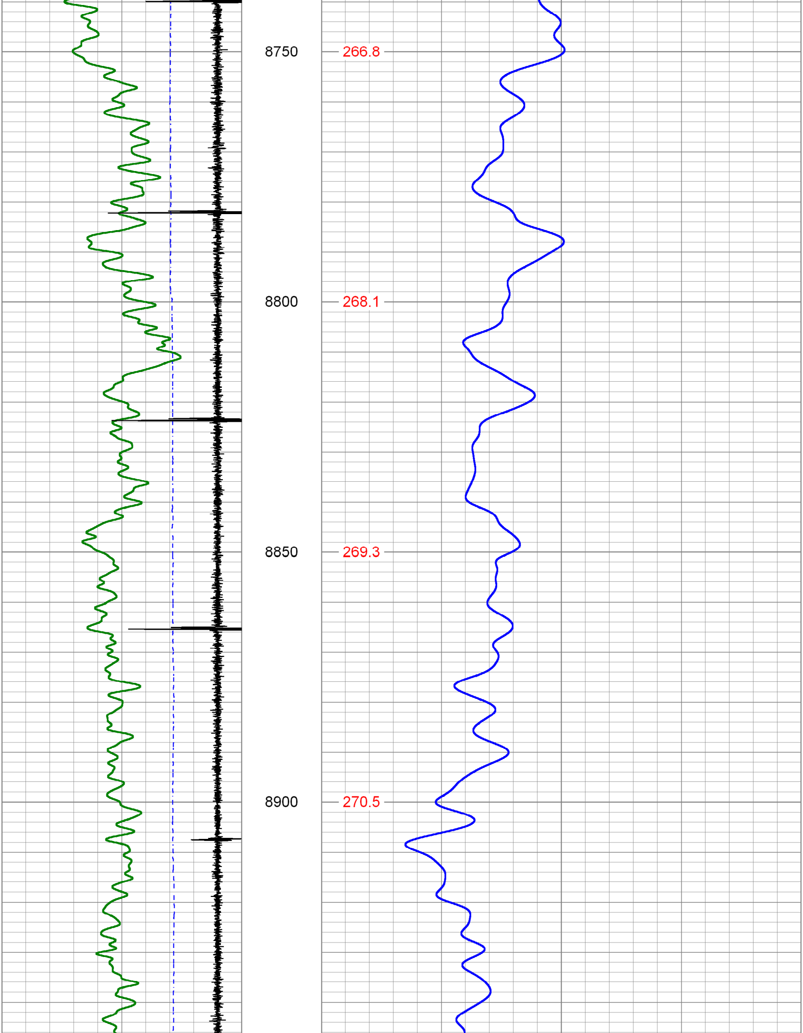

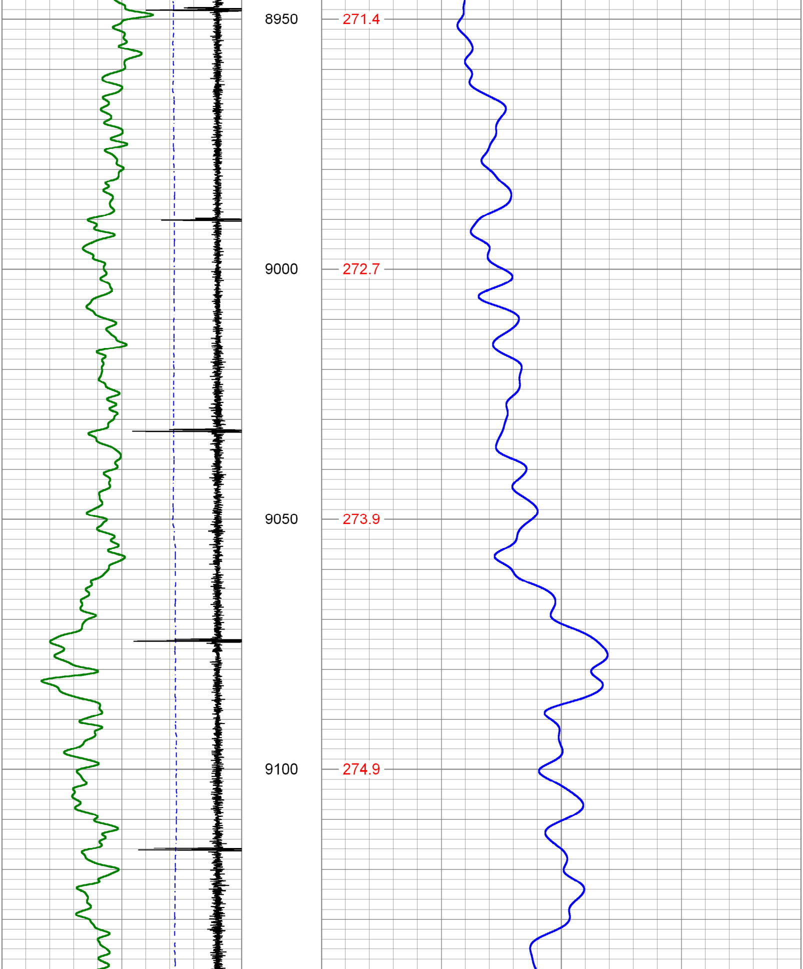

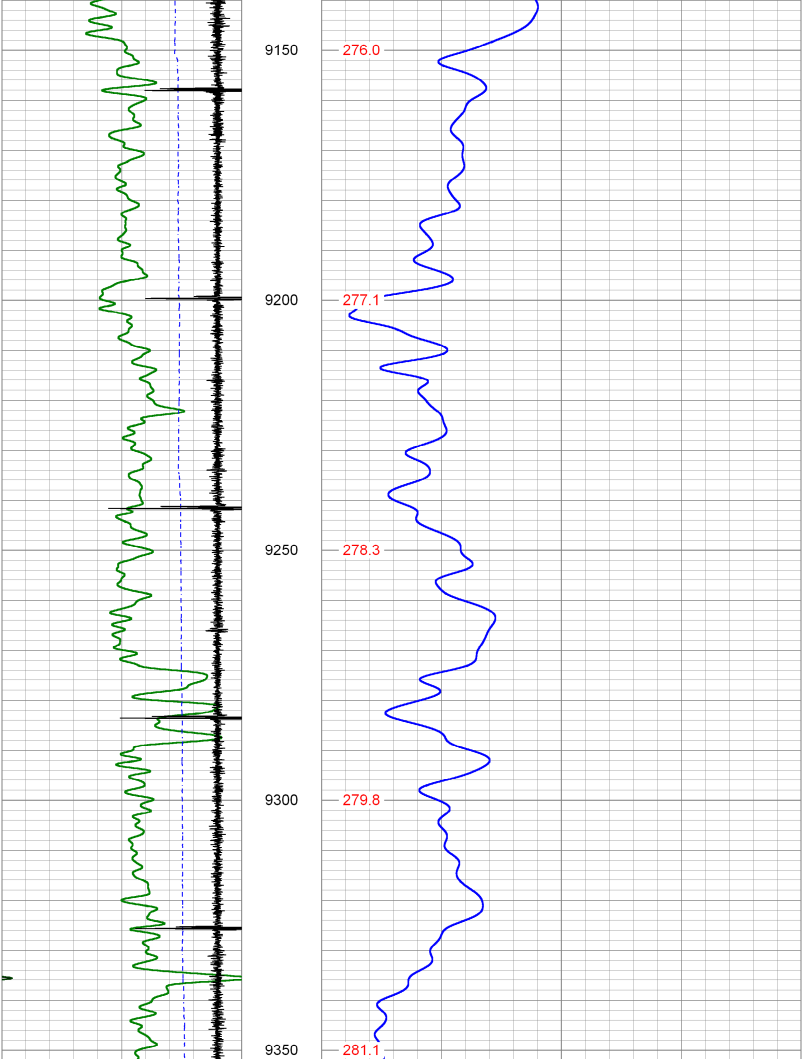

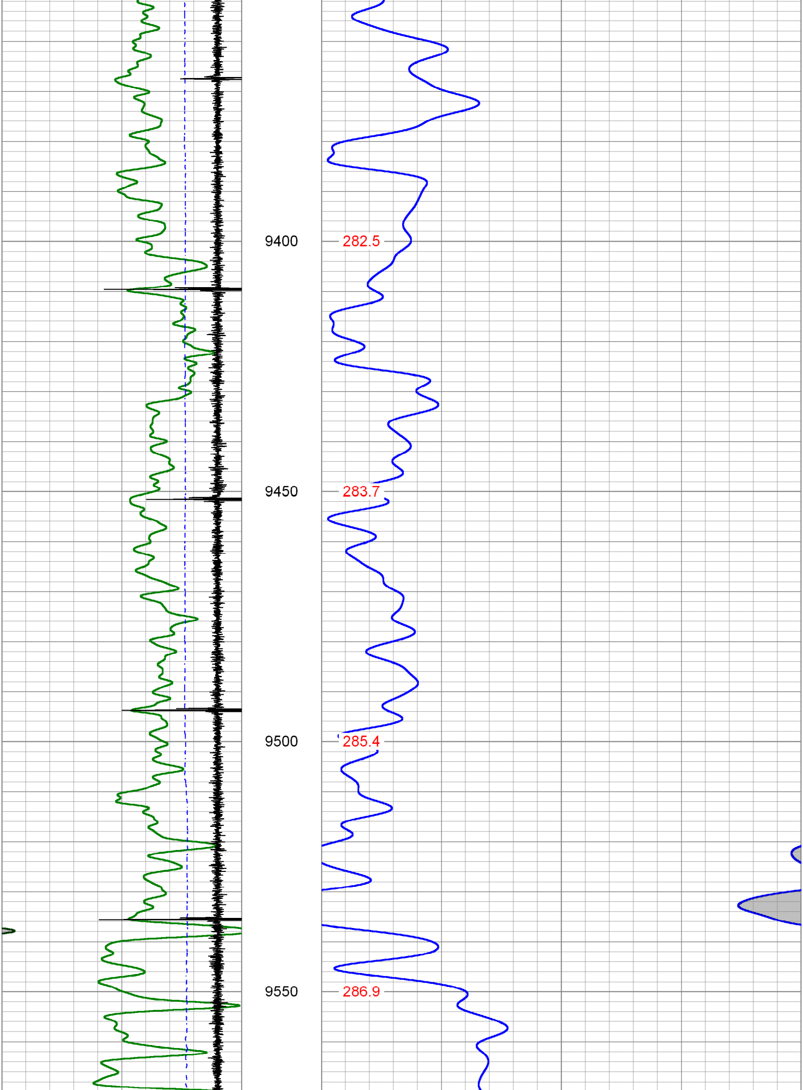

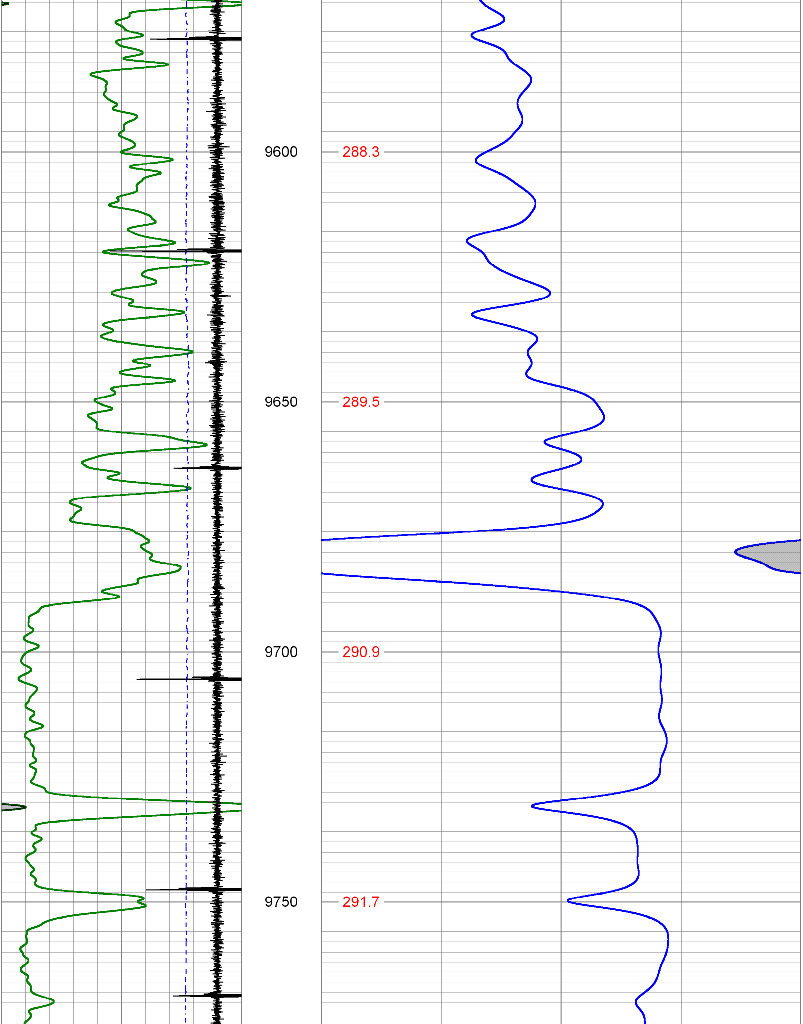

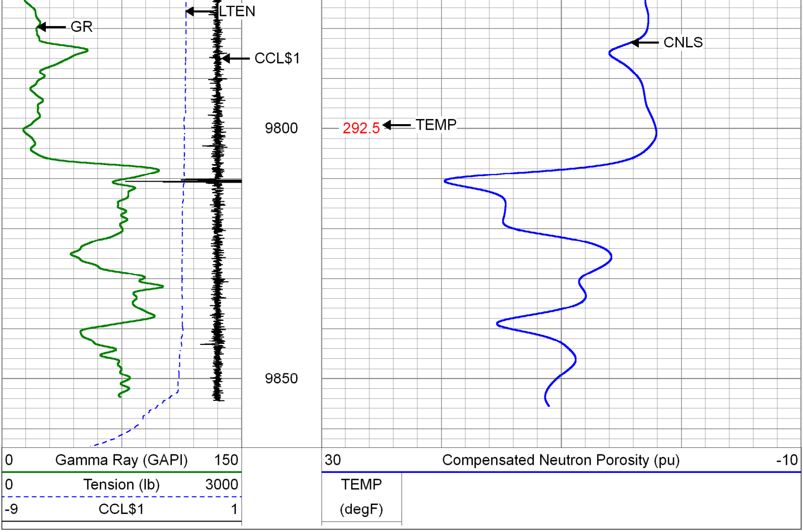

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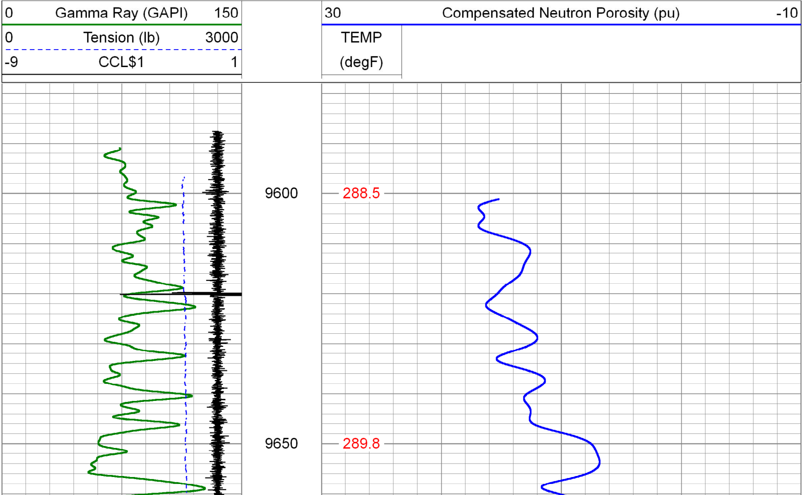
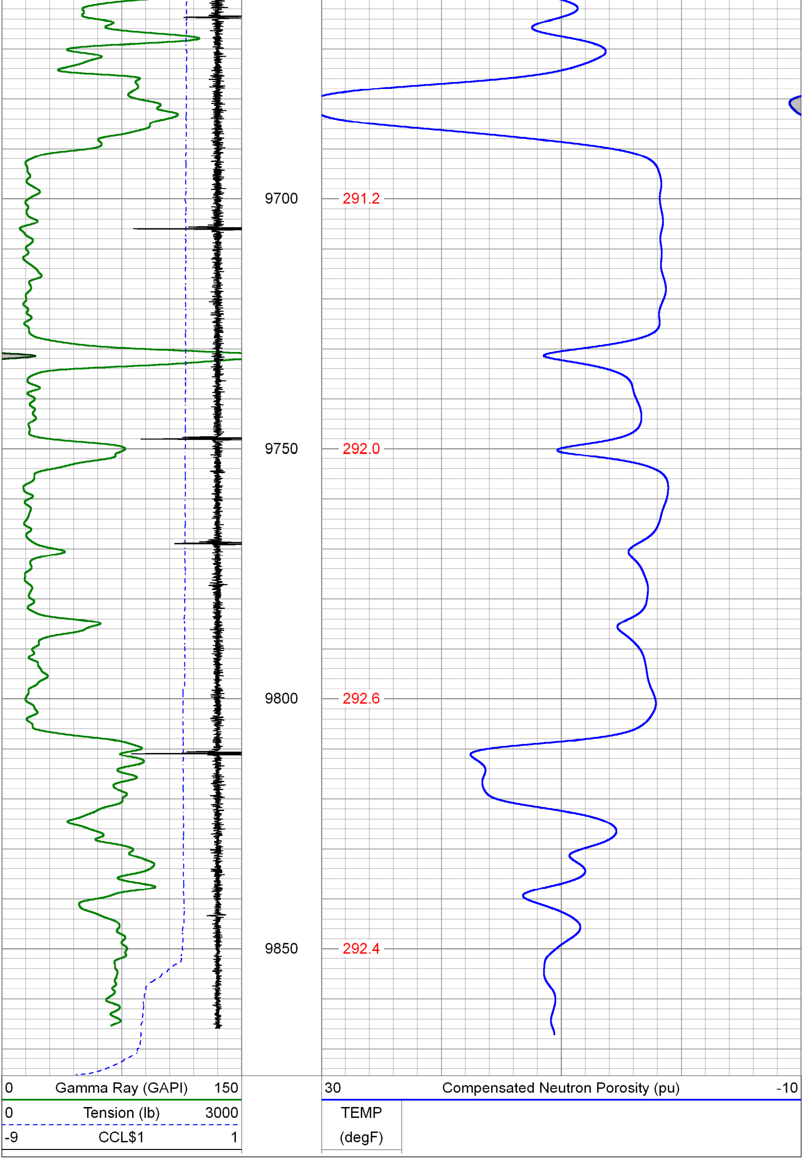
Presentation Format	pinr_cnl
Dataset Creation	Sat Feb 17 14:29:53 2018
Charted by	Depth in Feet scaled 1:240





Calibration Report

Database File	sandridge_pintail_swd_0780_2-16d.db
Dataset Pathname	pass23_cnl
Dataset Creation	Sat Feb 17 18:44:04 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:	070230	
Tool Model:	275 Probe w Temp New Mod	
Calibration Casing Diameter:	5.500	in
Calibration Depth:	7804.542	ft

Master Calibration, performed Sat Feb 17 13:59:17 2018:

	Raw (v)		Calibrated (mv)		Results	
	Zero	Cal	Zero	Cal	Gain	Offset
3'	-0.006	1.564	1.000	71.921	45.160	1.293
CAL	-0.008	1.526				
5'	-0.007	1.556	1.000	71.921	45.376	1.322
SUM						
S1	-0.003	1.536	0.000	100.000	64.975	0.171
S2	-0.007	1.554	0.000	100.000	64.063	0.433
S3	-0.008	1.542	0.000	100.000	64.537	0.501
S4	-0.008	1.546	0.000	100.000	64.346	0.516
S5	-0.006	1.569	0.000	100.000	63.495	0.399
S6	-0.007	1.577	0.000	100.000	63.111	0.465
S7	-0.007	1.540	0.000	100.000	64.655	0.445
S8	-0.007	1.551	0.000	100.000	64.189	0.469

Air Zero Calibration, performed Sat Feb 17 10:59:14 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: 070230
Tool Model: 275 Probe w Temp New Mod
Performed: Tue Jul 18 07:00:29 2017

	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_ENERGY
Well	PINTAIL_SWD_0780_2-16D
Field	N_PARK_HORIZ_NBRR
County	JACKSON_CO
State	C.O.