



**COMPENSATED DENSITY
NEUTRON
PE/LOG**

Company BEREXCO LLC
 Well ELLEN #1-15
 Field BEAUCHAMP NORTH
 County STANTON
 State KS

Company BEREXCO LLC
 Well ELLEN #1-15
 Field BEAUCHAMP NORTH
 County STANTON State KS

Location: API #: 15 187 21358
 2305' FSL & 2287' FEL
 SEC 15 TWP 30S RGE 41W
 Permanent Datum Ground Level Elevation 3394
 Log Measured From KB 13' AGL
 Drilling Measured From KB
 Other Services
 ML
 DIL/SON
 Elevation
 K.B. 3407
 D.F. 3405
 G.L. 3394

Date	2/13/2023
Run Number	One
Depth Driller	5600
Depth Logger	5599
Bottom Logged Interval	5579
Top Log Interval	3500'
Casing Driller	8 5/8"@1632'
Casing Logger	1630
Bit Size	7 7/8"
Type Fluid in Hole	Chemical
Density / Viscosity	9.3/54
pH / Fluid Loss	10.0/6.4
Source of Sample	Pit
Rm @ Meas. Temp	1.8@60degf
Rmf @ Meas. Temp	1.35@60degf
Rmc @ Meas. Temp	2.16@60degf
Source of Rmf / Rmc	Calculated
Rm @ BHT	0.89@122degf
Time Circulation Stopped	7:00 PM
Time Logger on Bottom	9:00 PM
Maximum Recorded Temperature	122degf
Equipment Number	T-605
Location	HAYS, KS.
Recorded By	COLBY DREILING
Witnessed By	KEATON JONES

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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

JOHNSON CITY SOUTH ON HWY 27 TO RD 21,
 1 WEST, 0.5 SOUTH, WEST INTO.

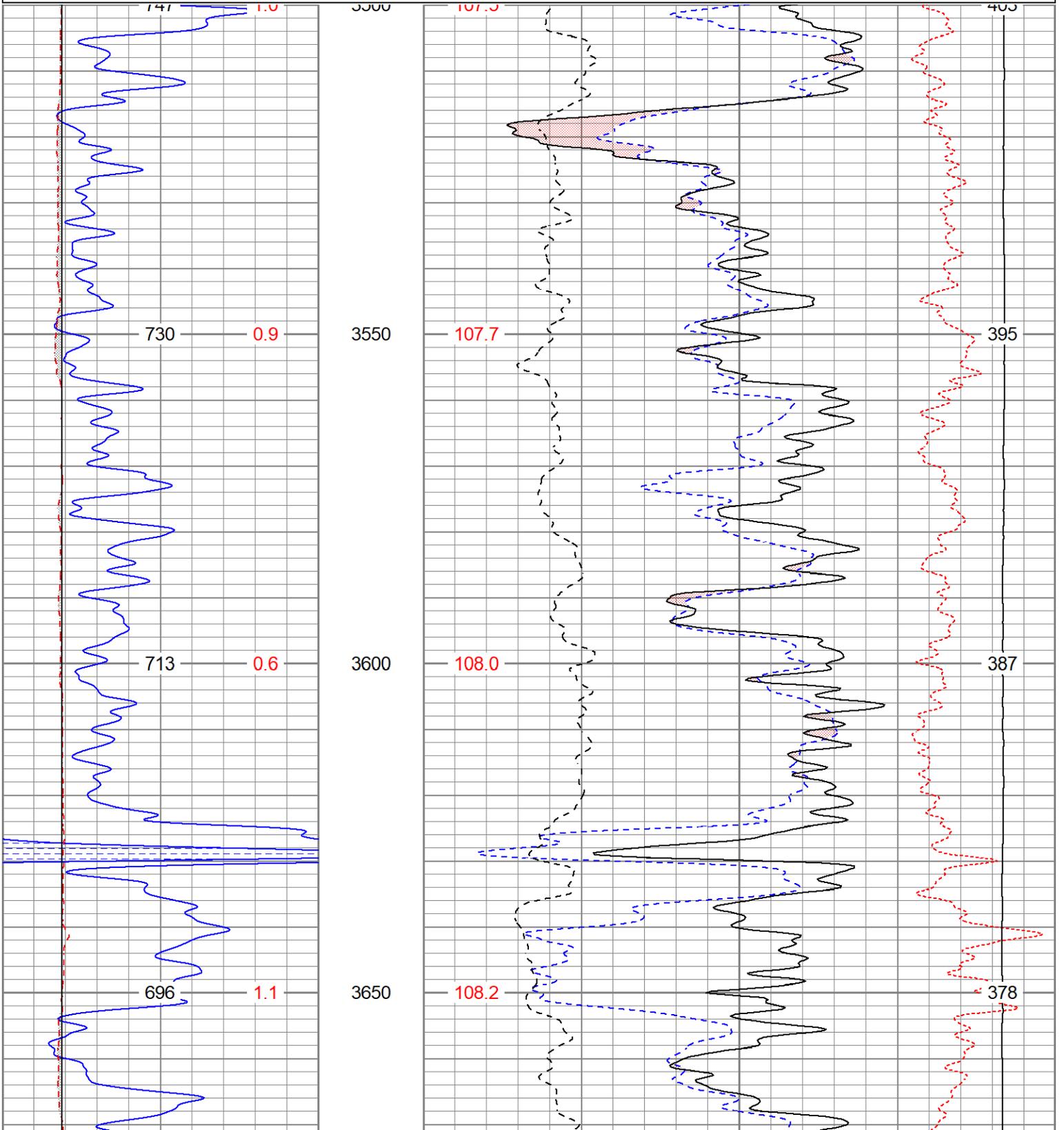
 Thanks for using Gemini Wireline LLC
 785-625-1182

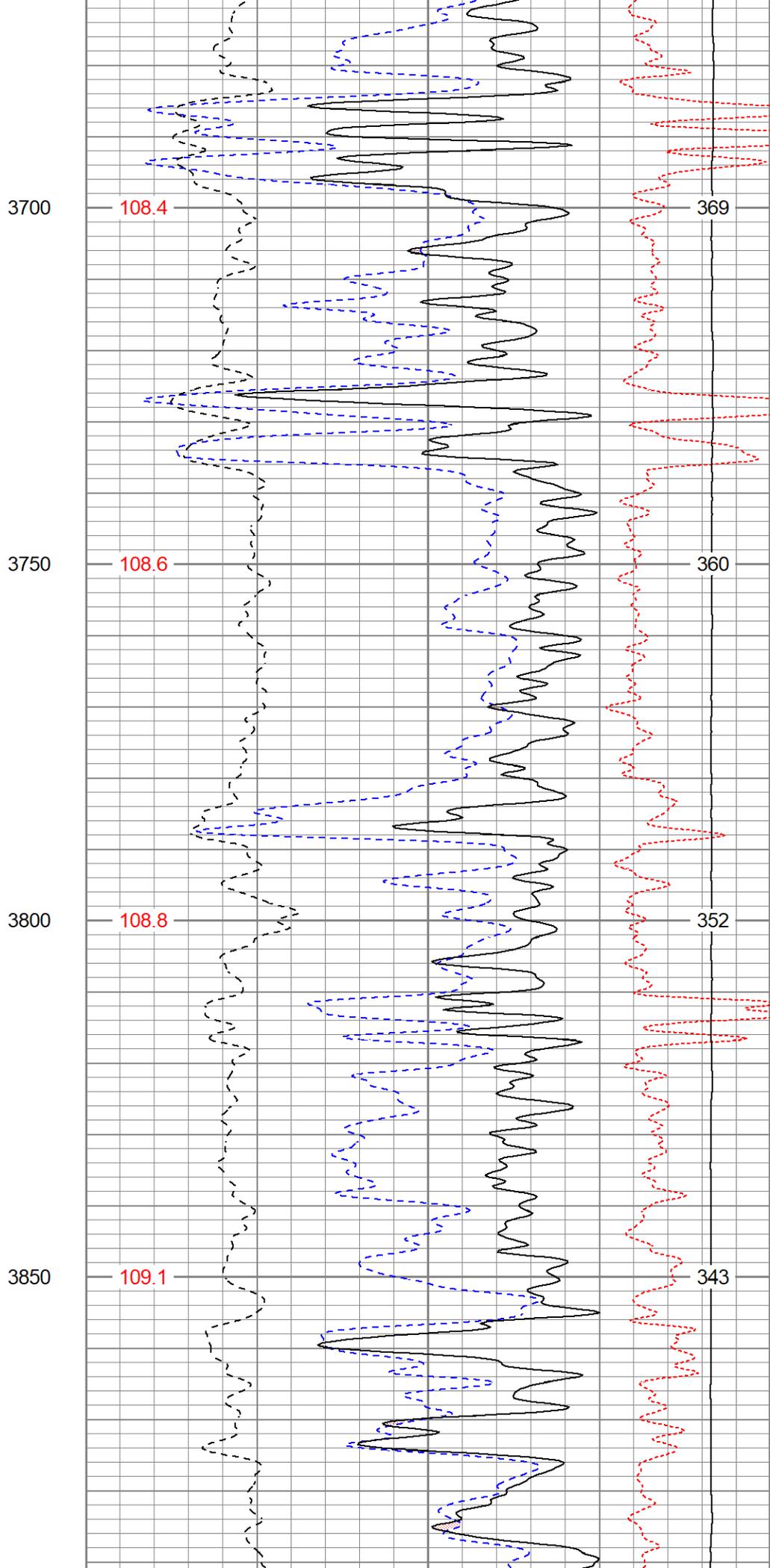
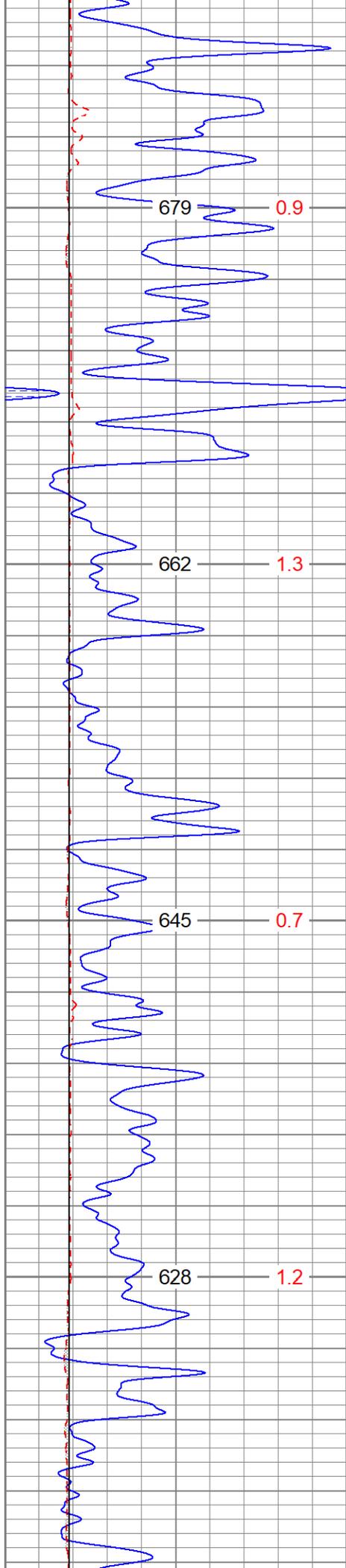


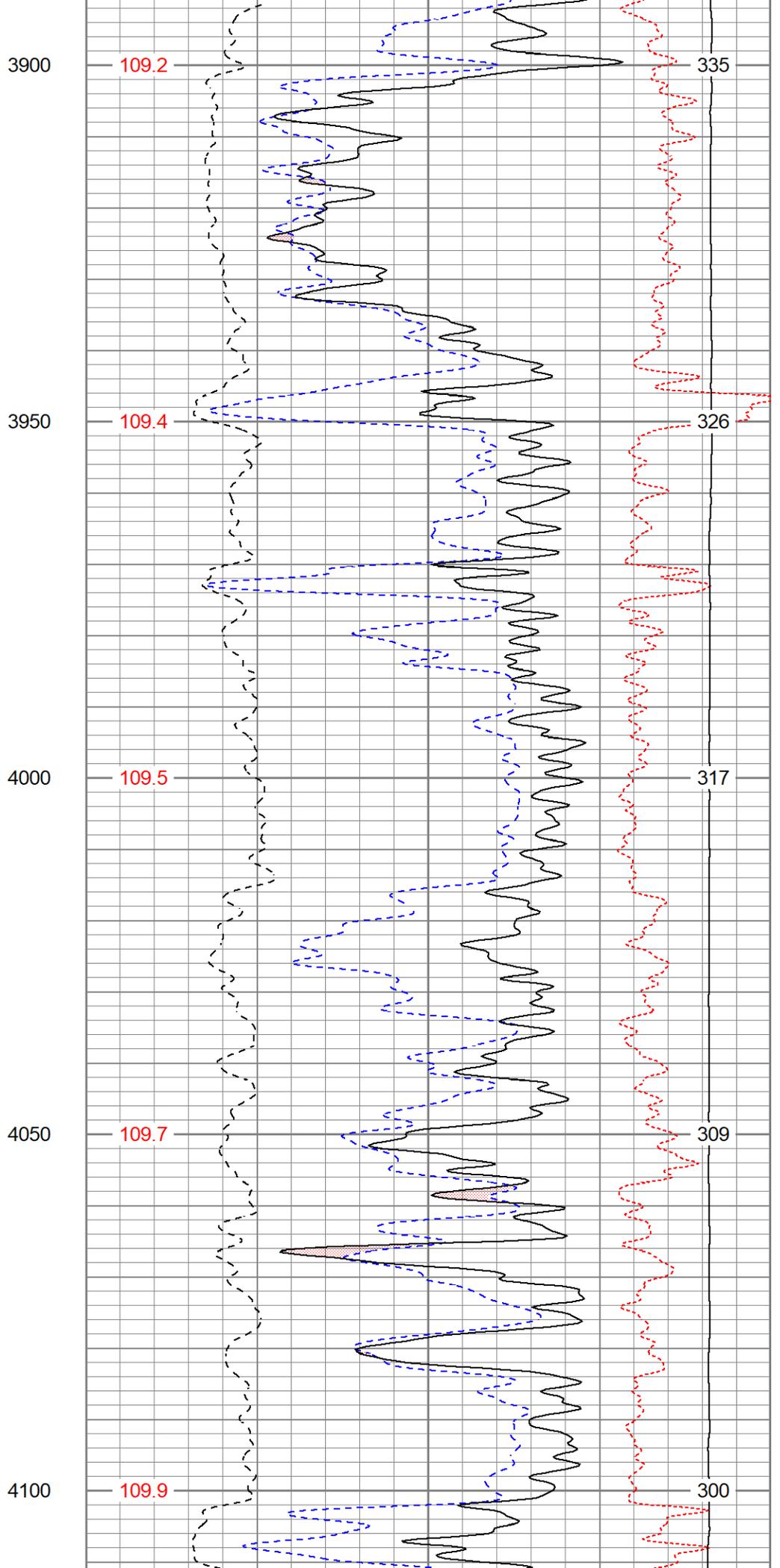
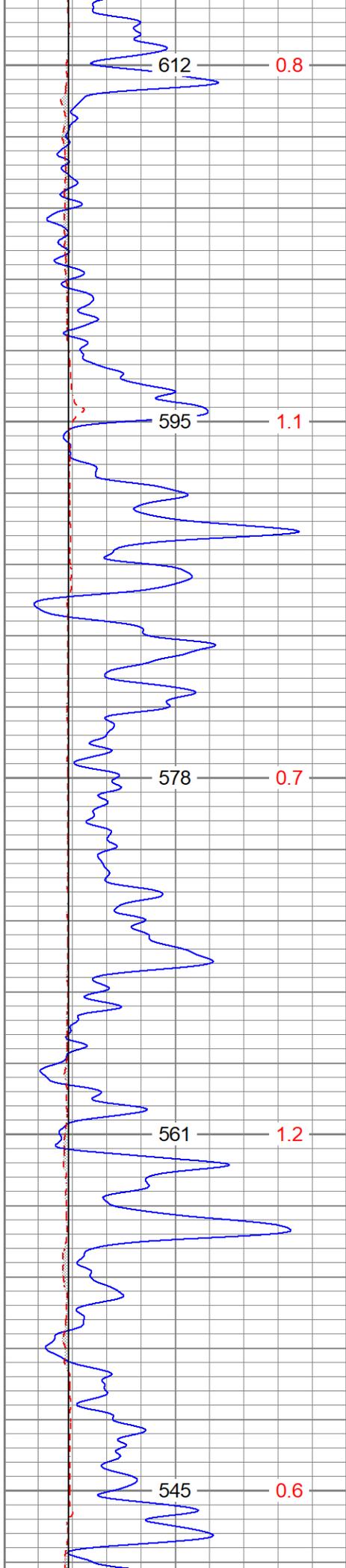
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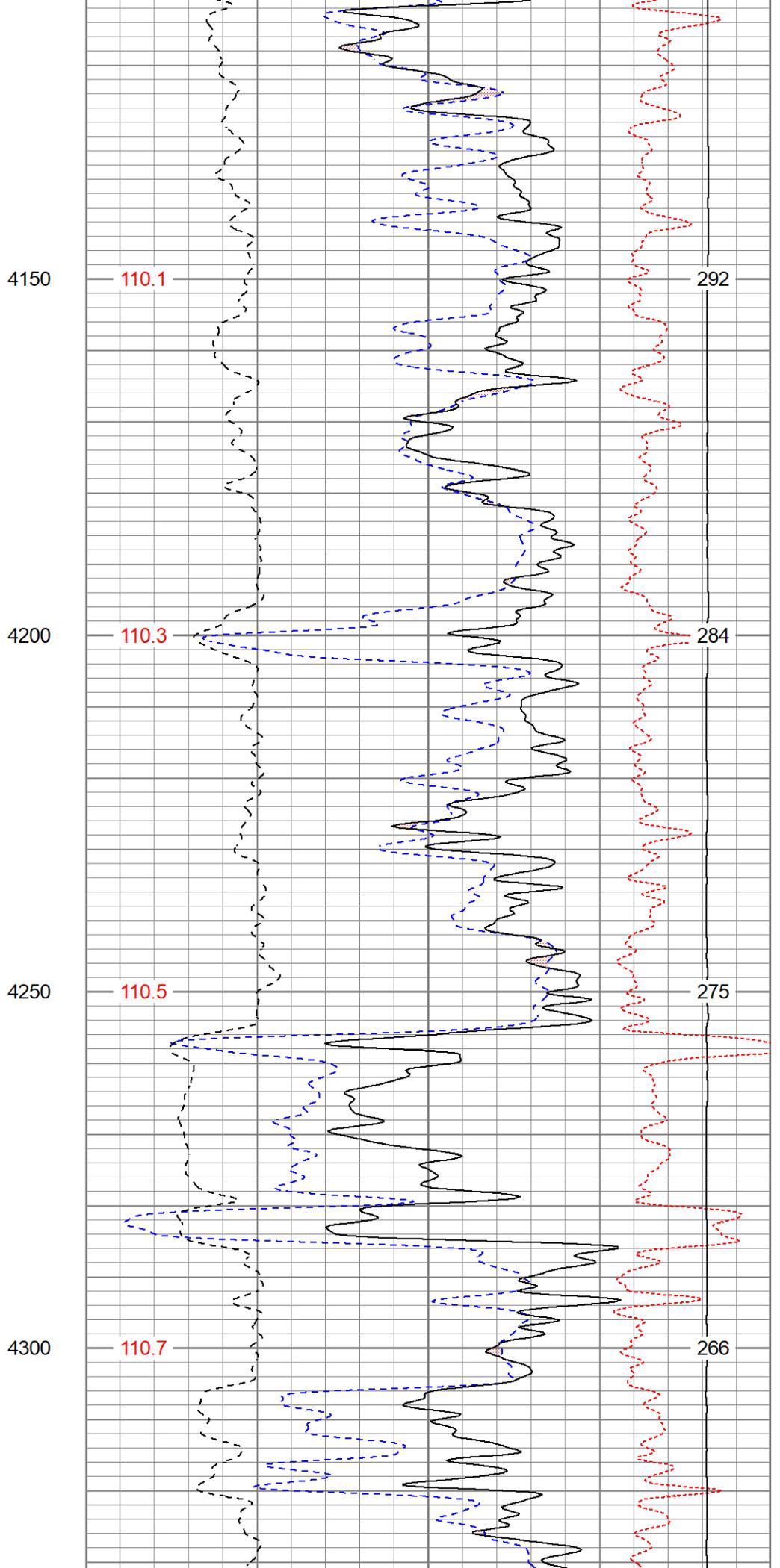
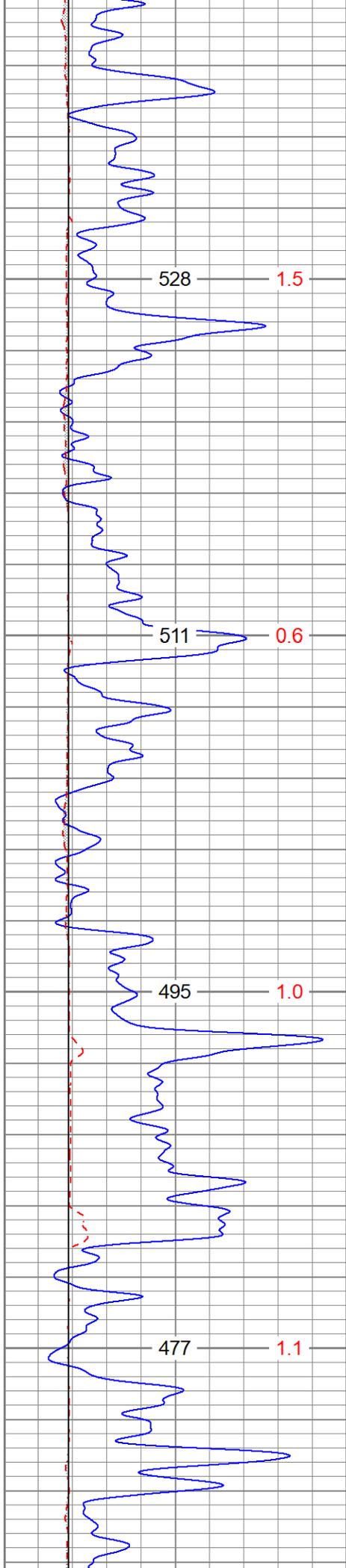
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 Dataset Creation Mon Feb 13 23:26:05 2023
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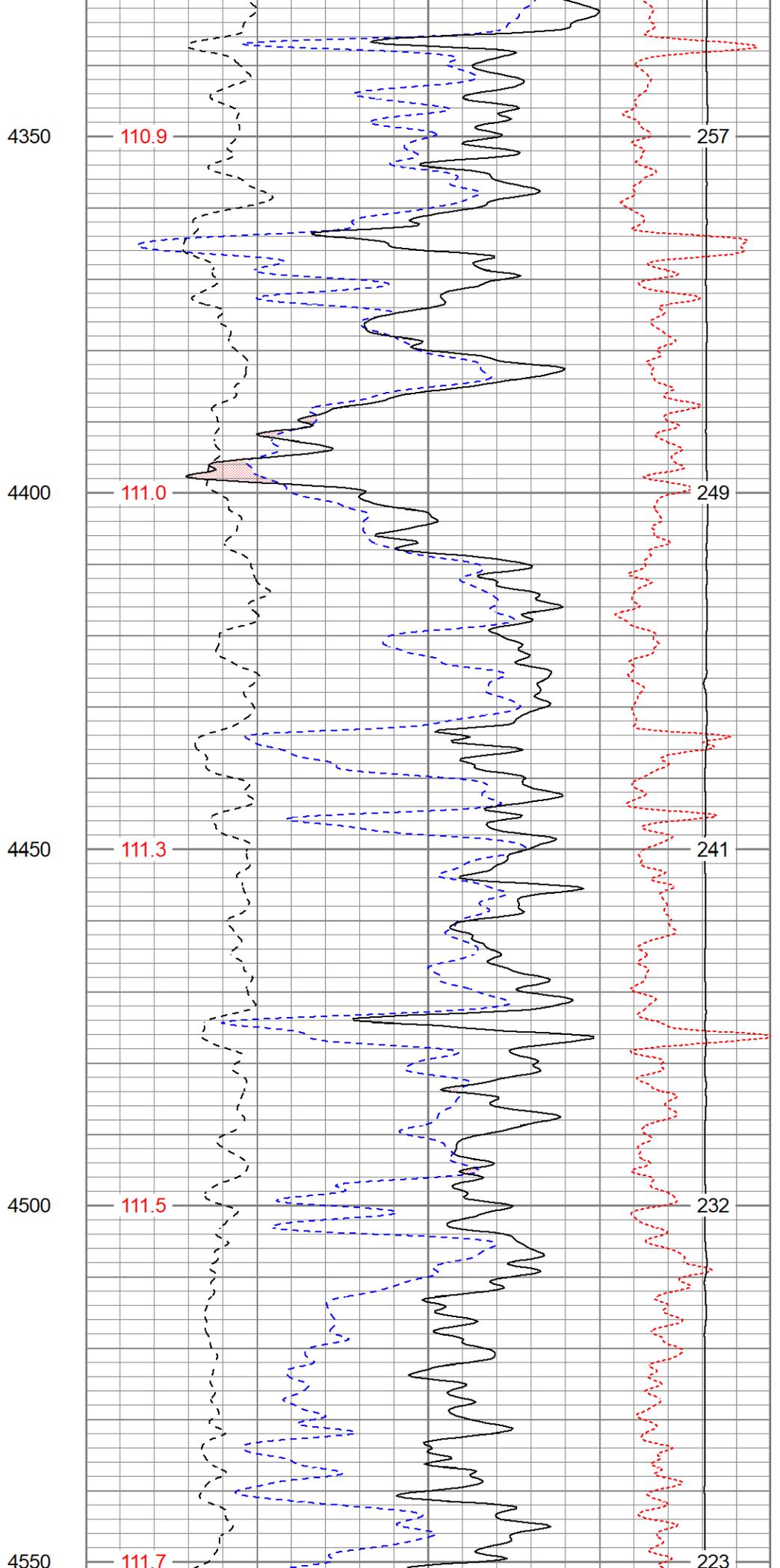
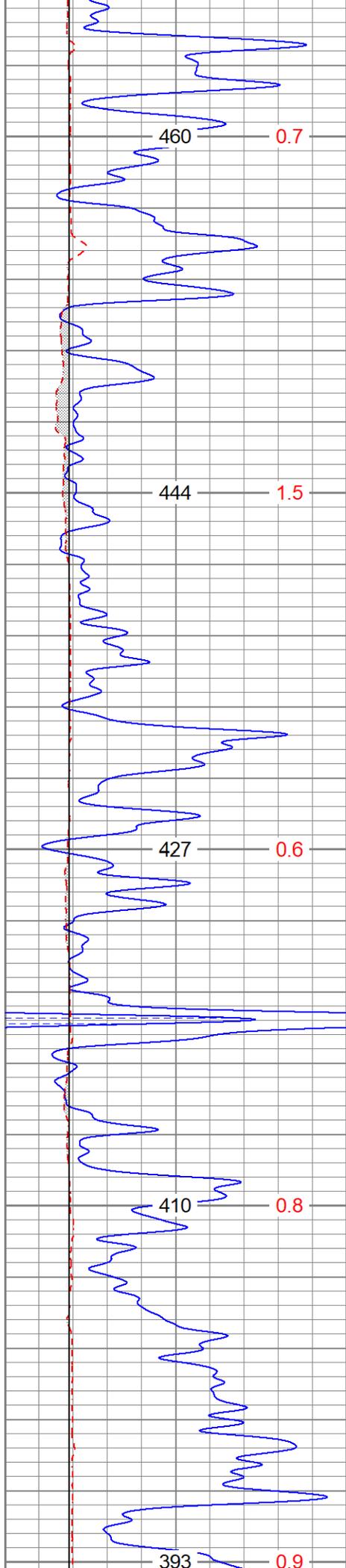
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6	DCAL (in)	16	30	DPOR (pu)	-10
6	BOREID (in)	16	70	DPOR (pu)	30
	TBHV (ft3)	DEVI (deg)	0	Pe (barn)	10
			0	-0.25	RHOC (g/cc)
			8000		LTEN (lb)
					0
					ABHV (ft3)

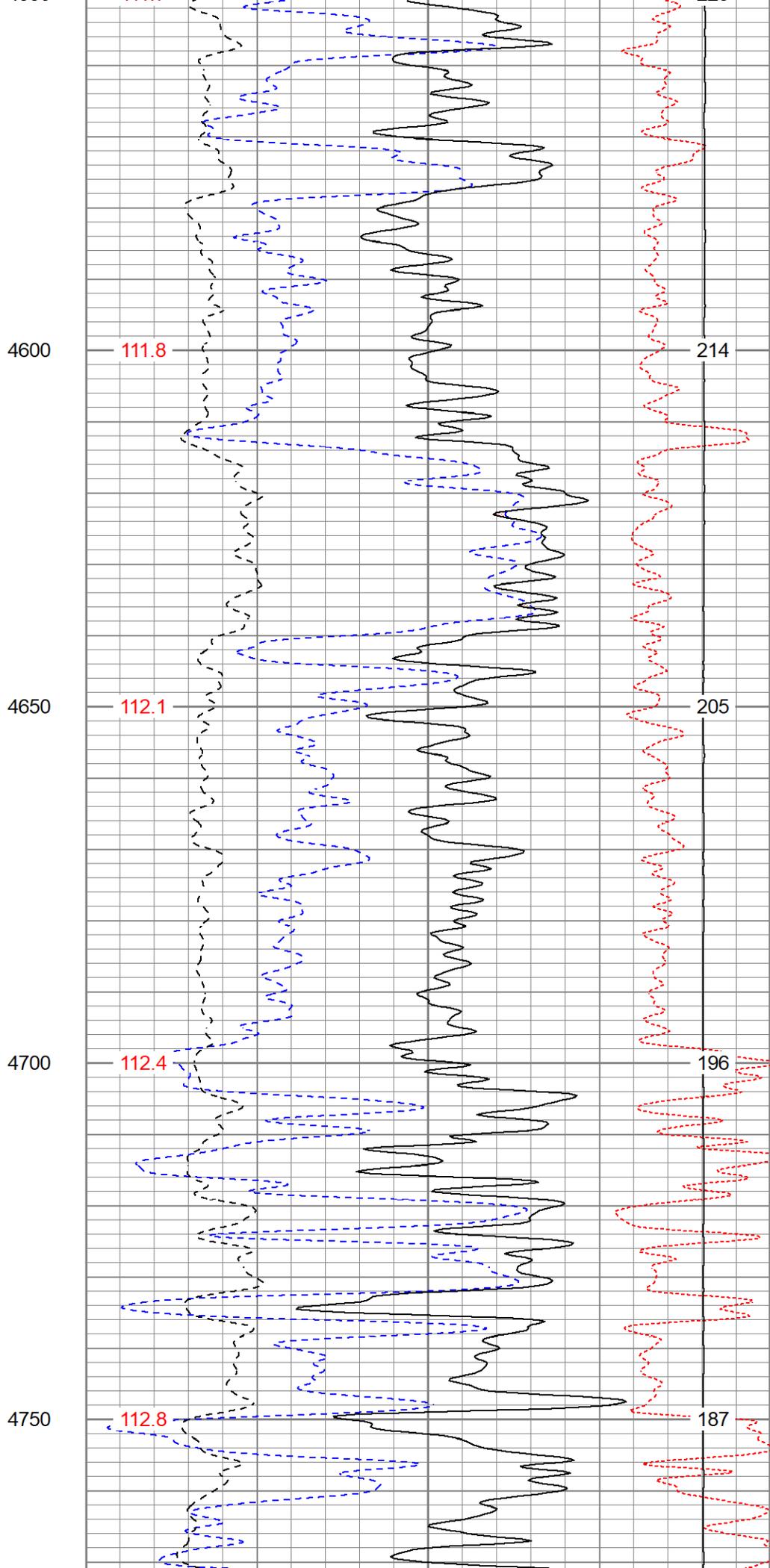
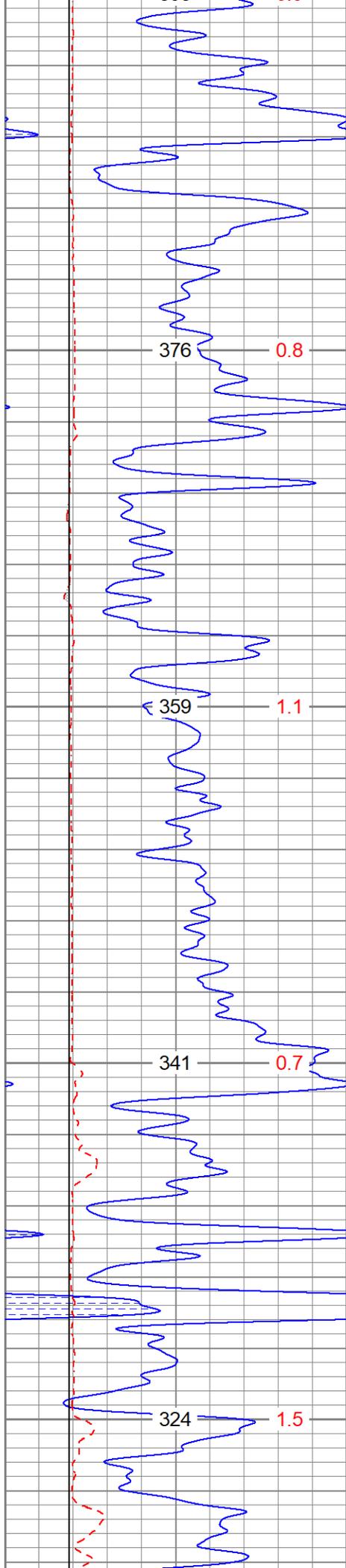


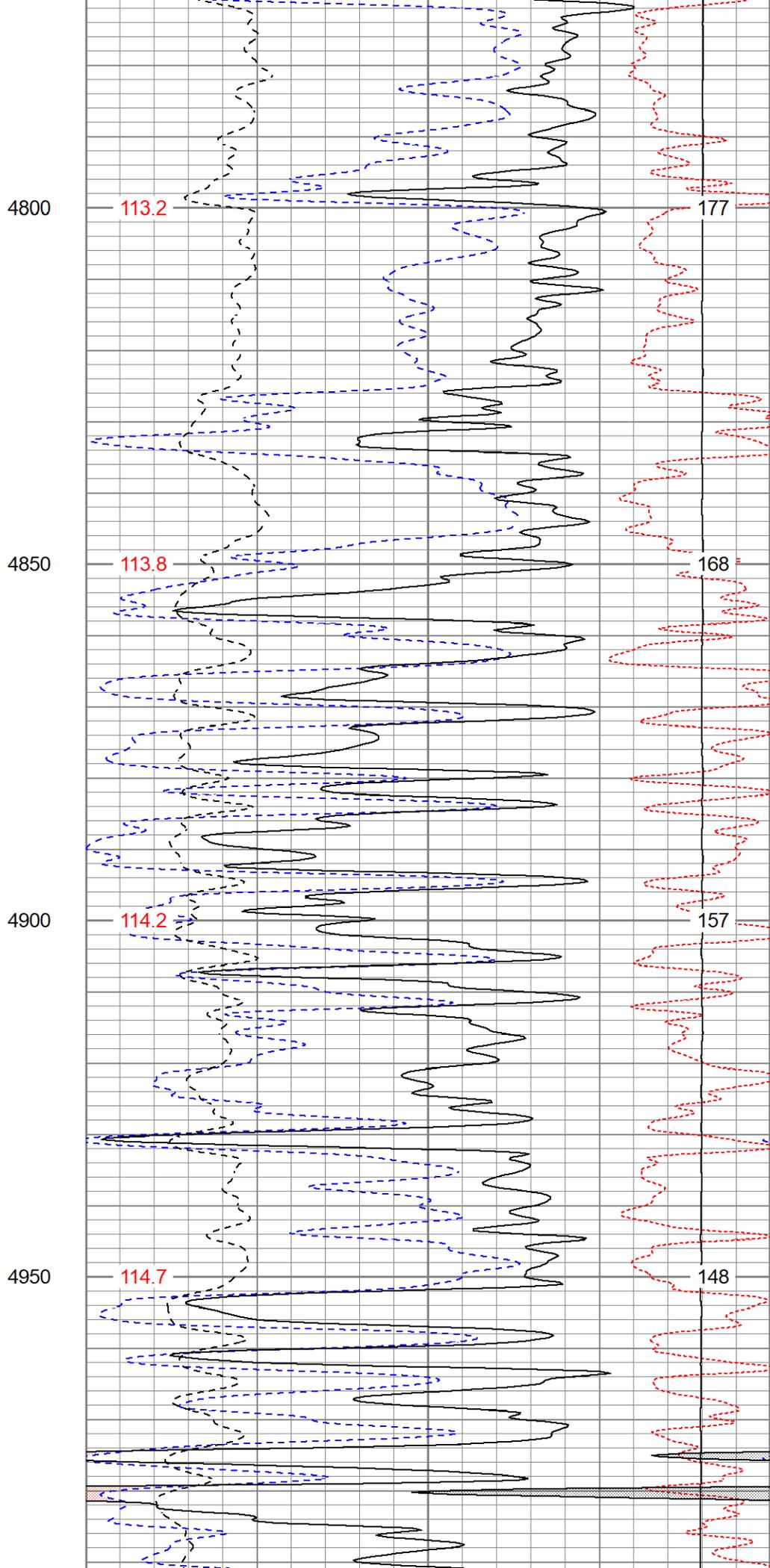
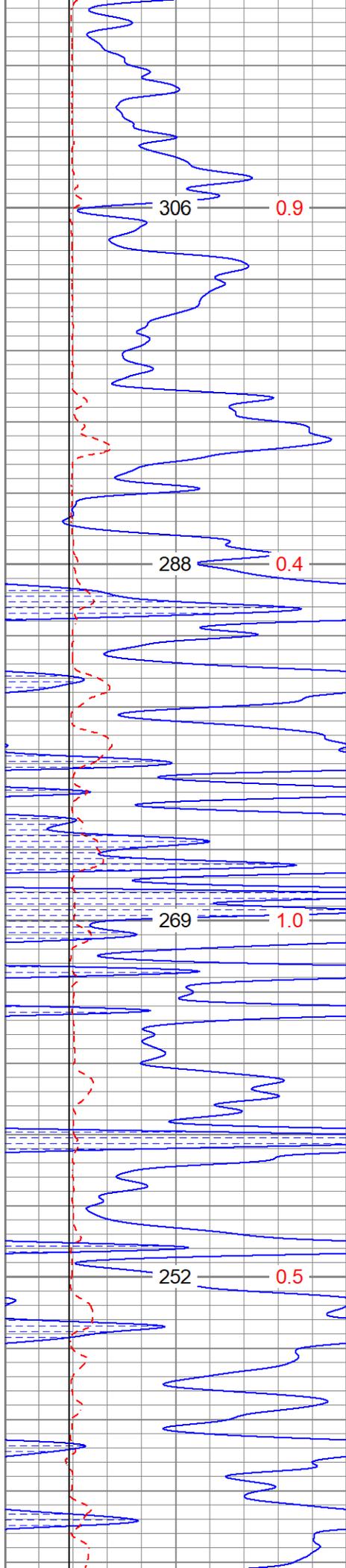


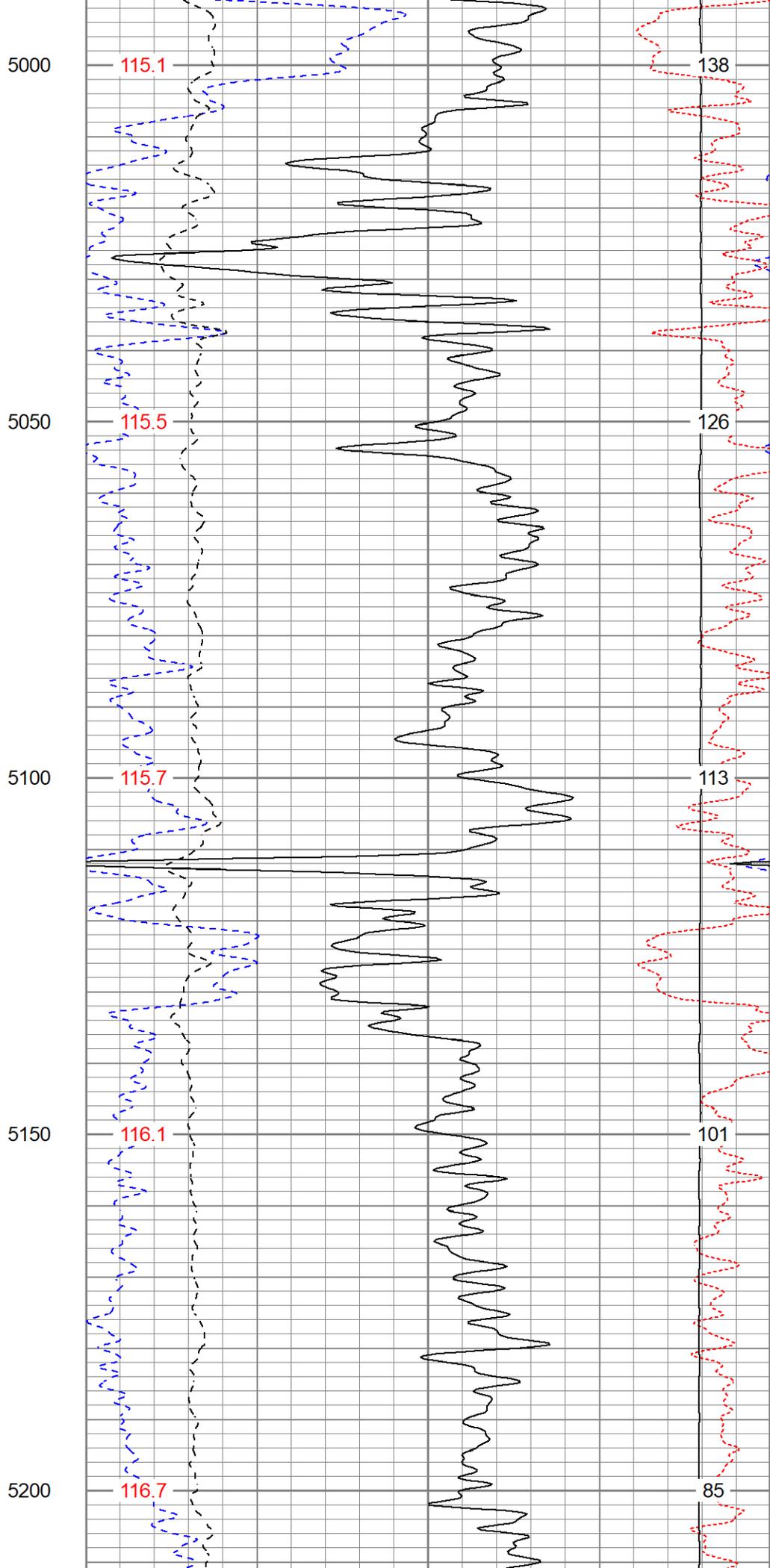
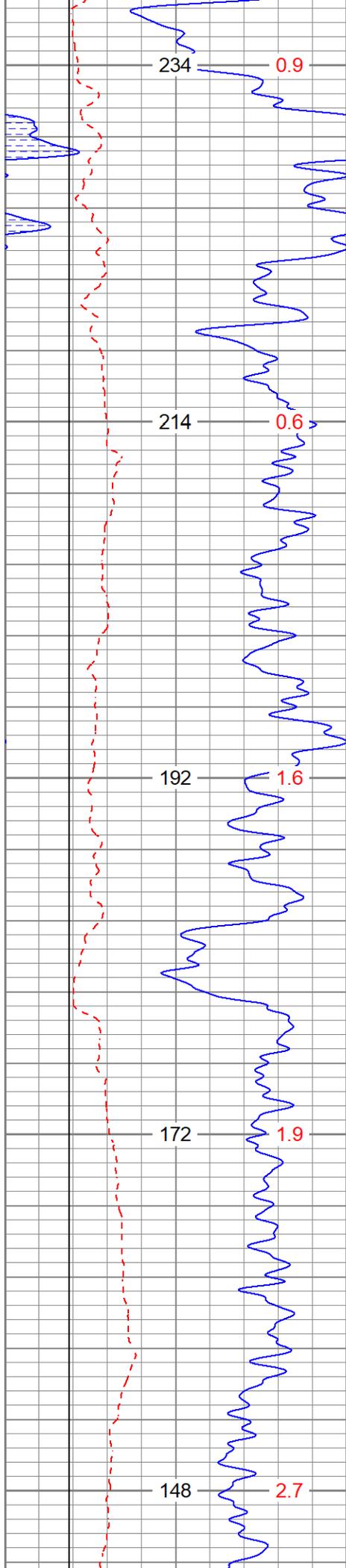


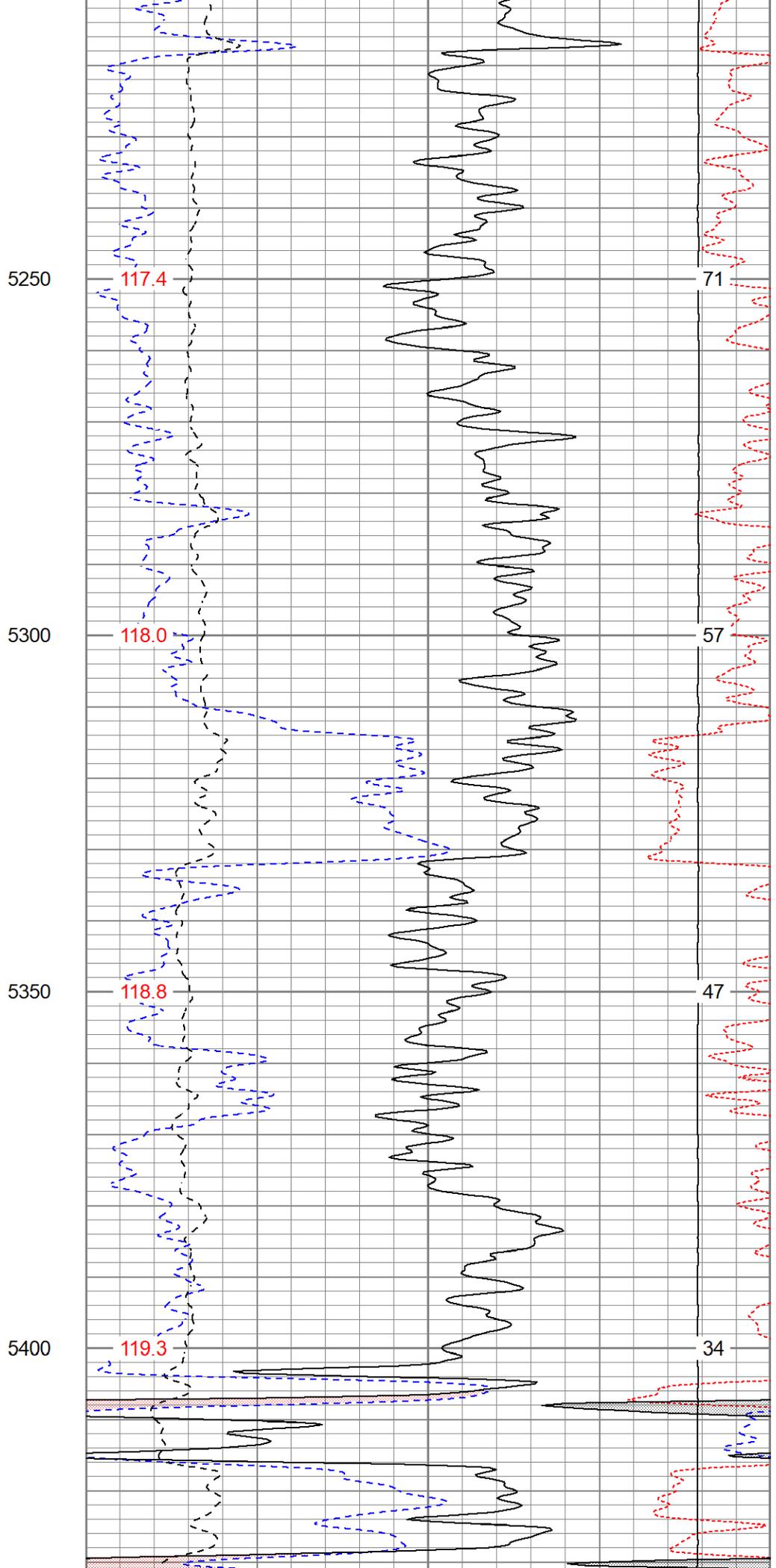
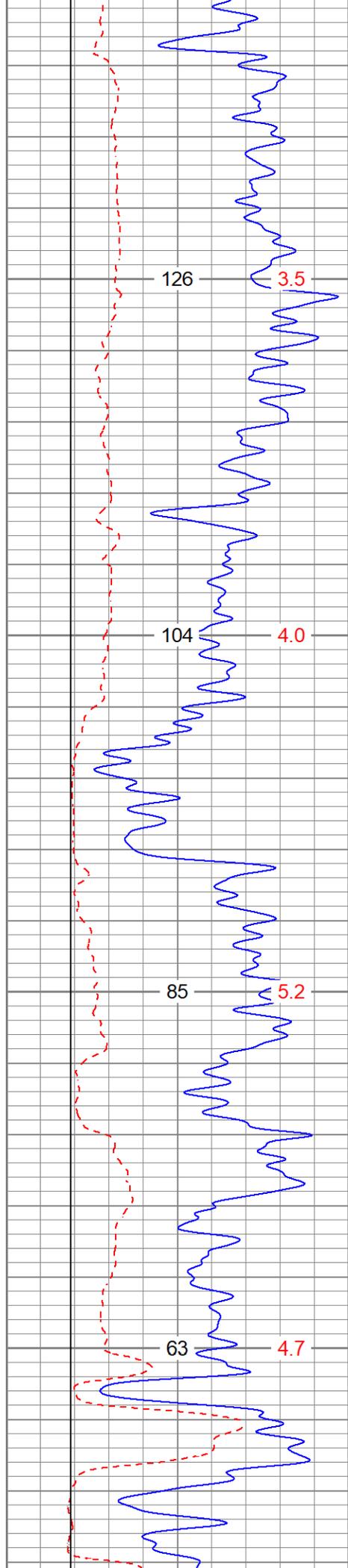


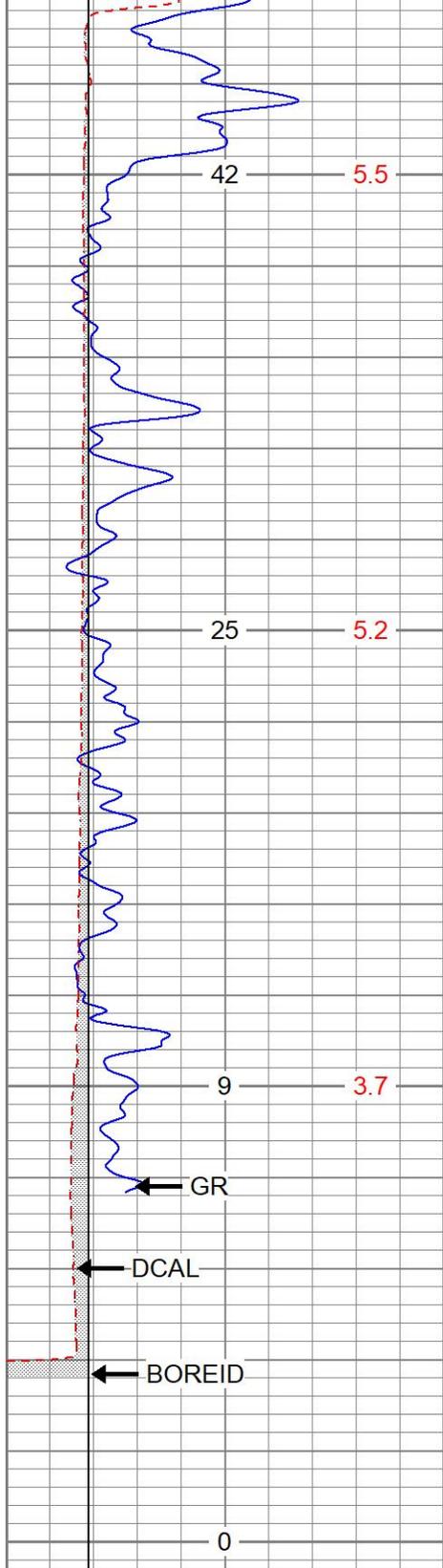




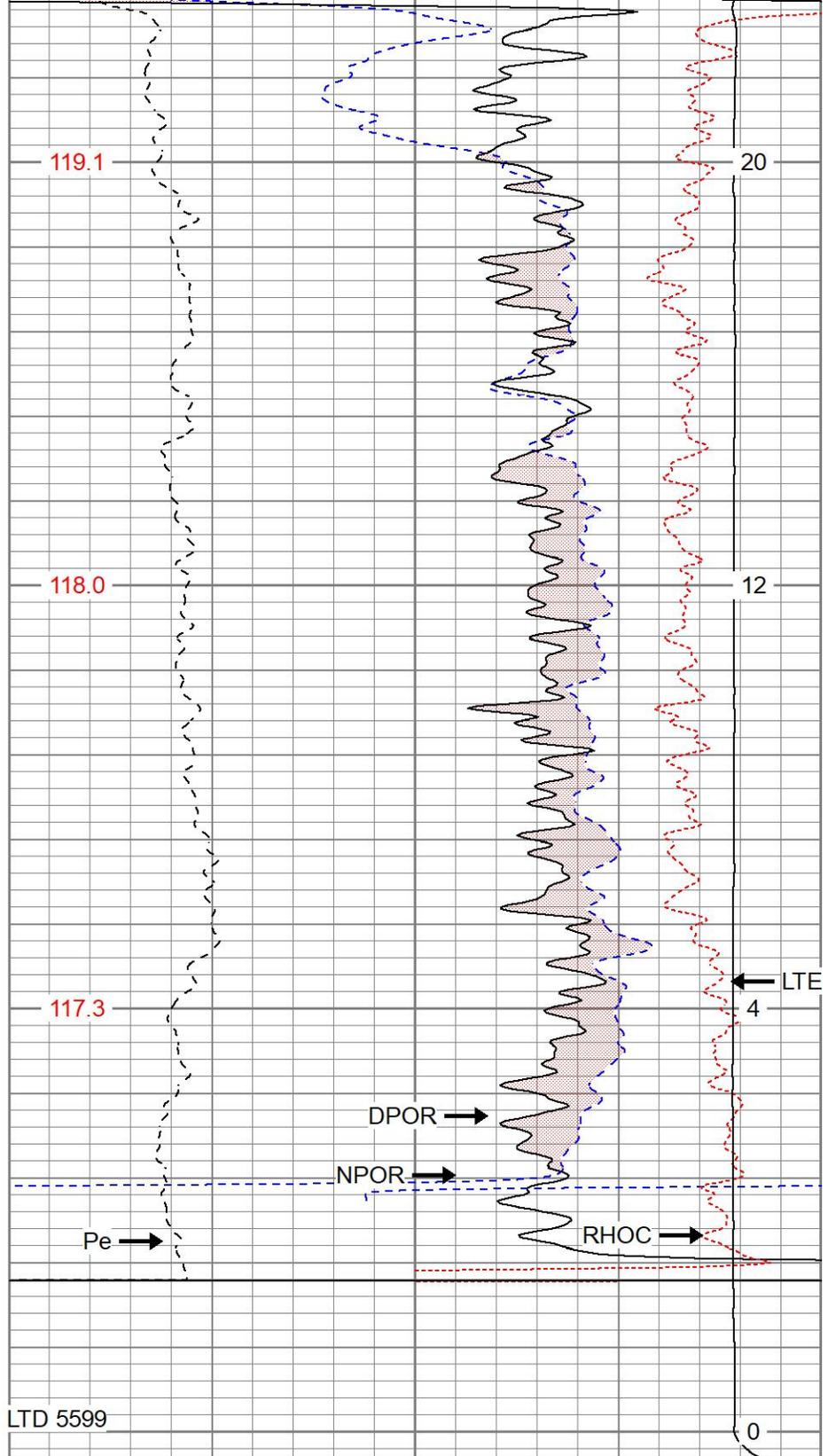








5450
5500
5550
5600



0	GR (GAPI)	150
6	DCAL (in)	16
6	BOREID (in)	16
	TBHV (ft3)	DEVI (deg)

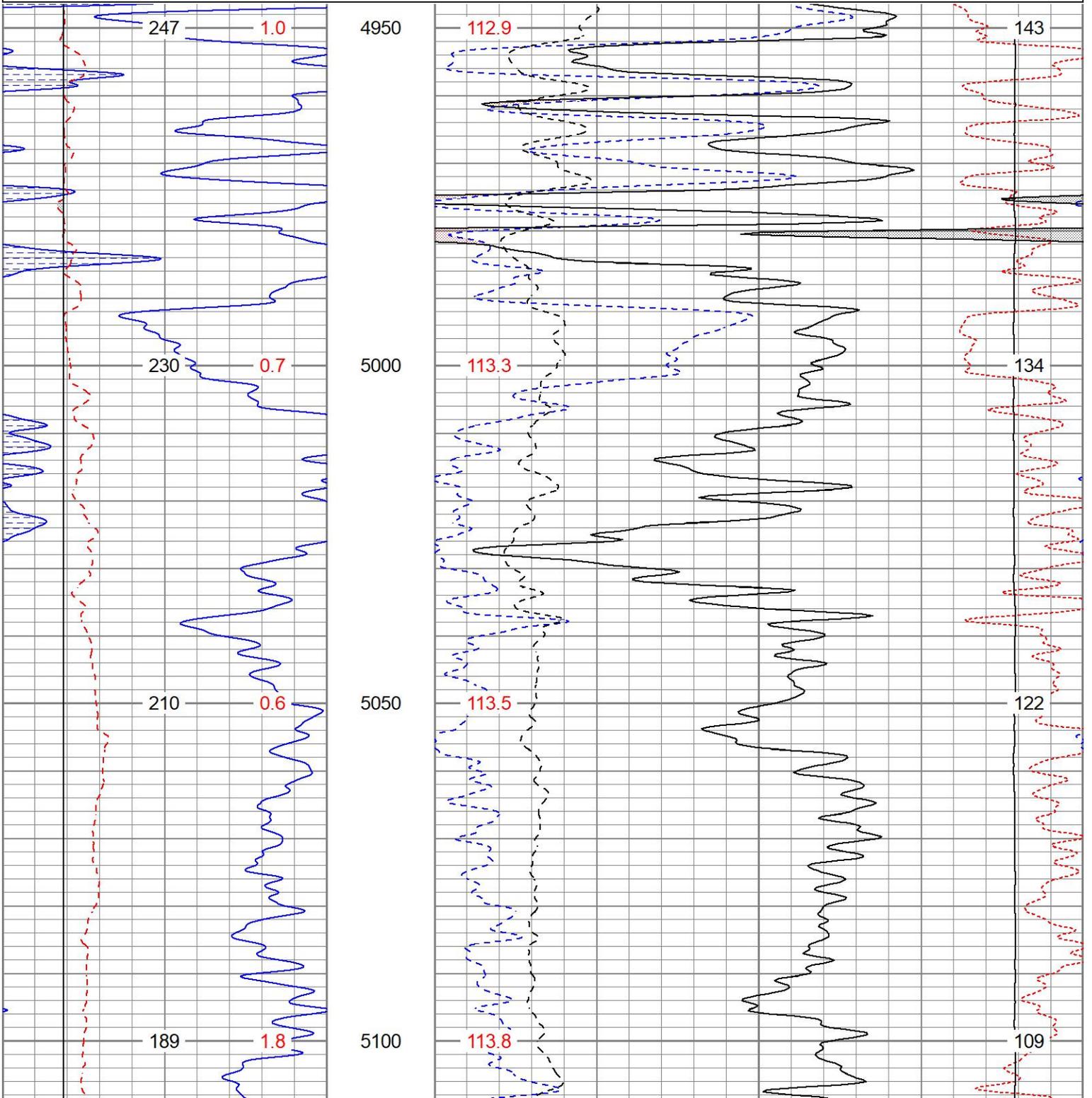
30	NPOR (pu)	-10		
30	DPOR (pu)	-10		
70	DPOR (pu)	30		
0	Pe (barn)	10 -0.25	RHOC (g/cc)	0.25
	TEMP (degF)	8000	LTEN (lb)	0
				ABHV (ft3)

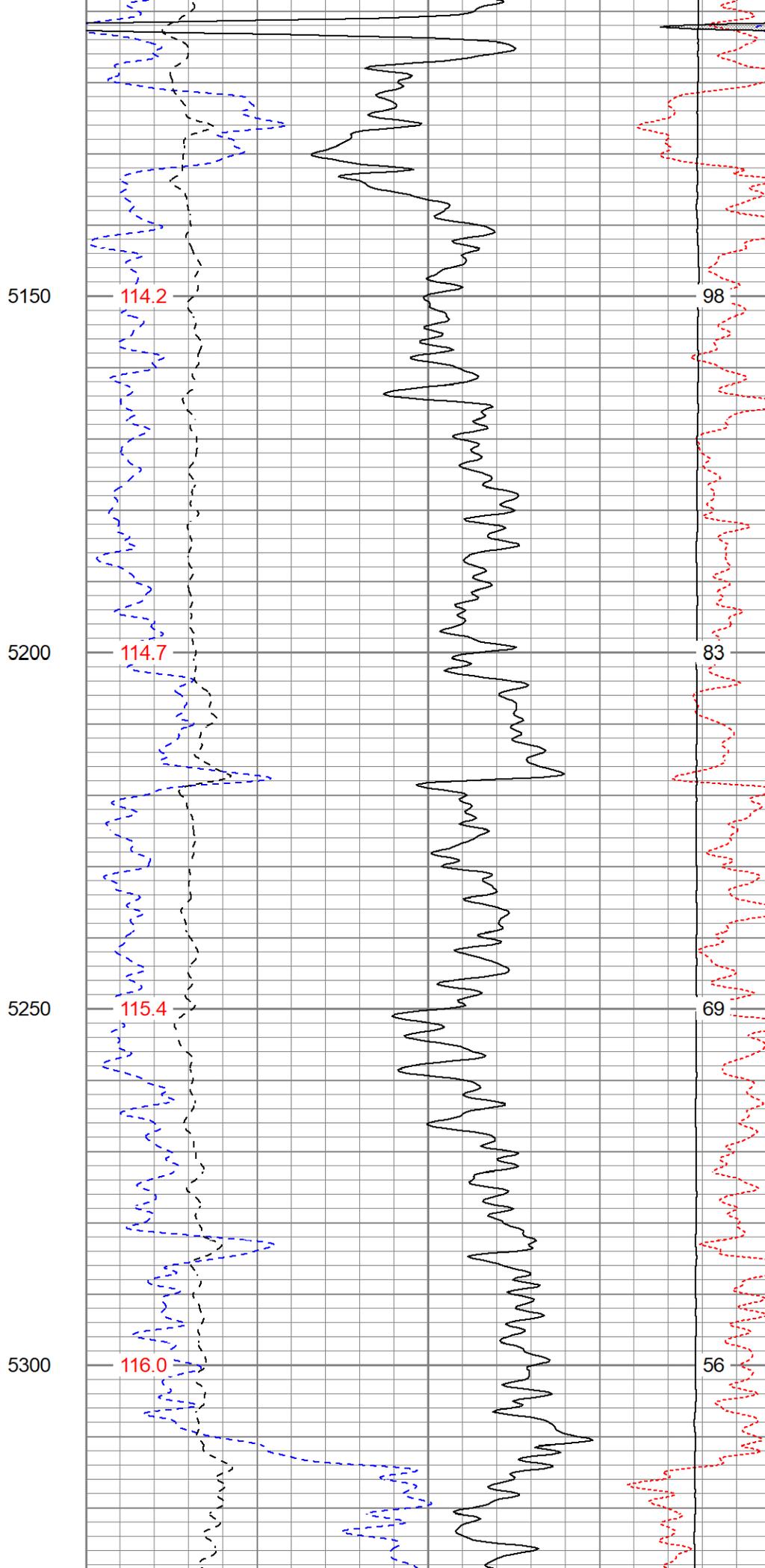
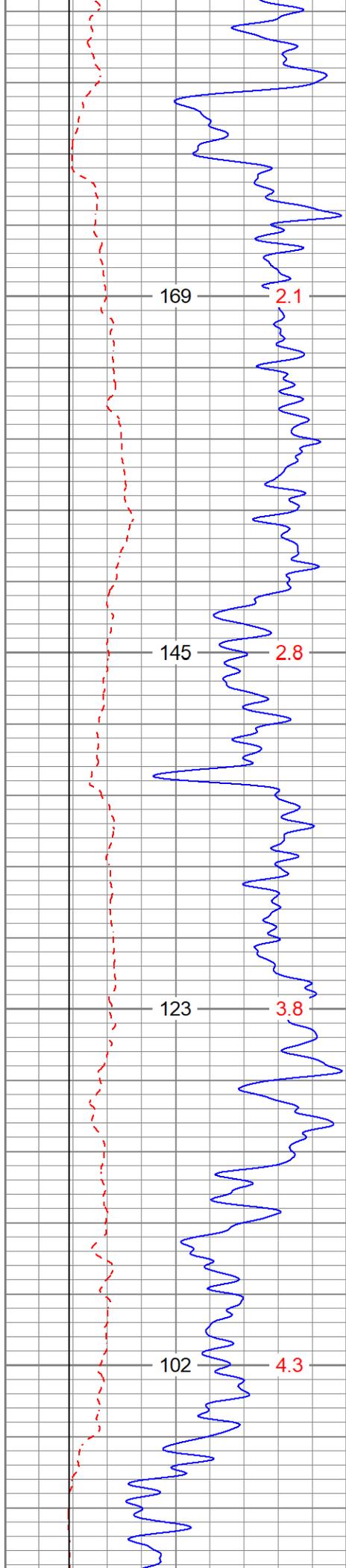


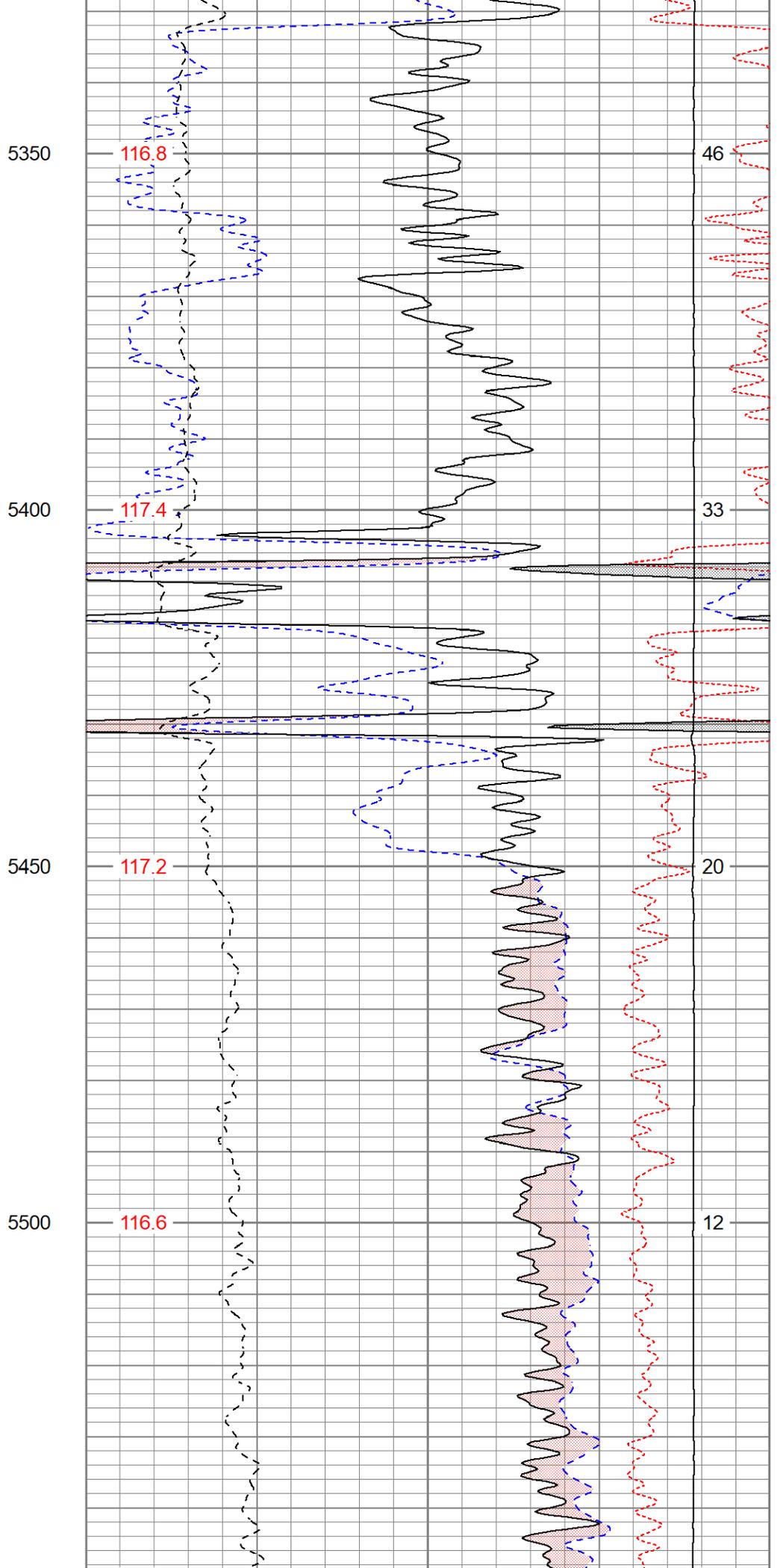
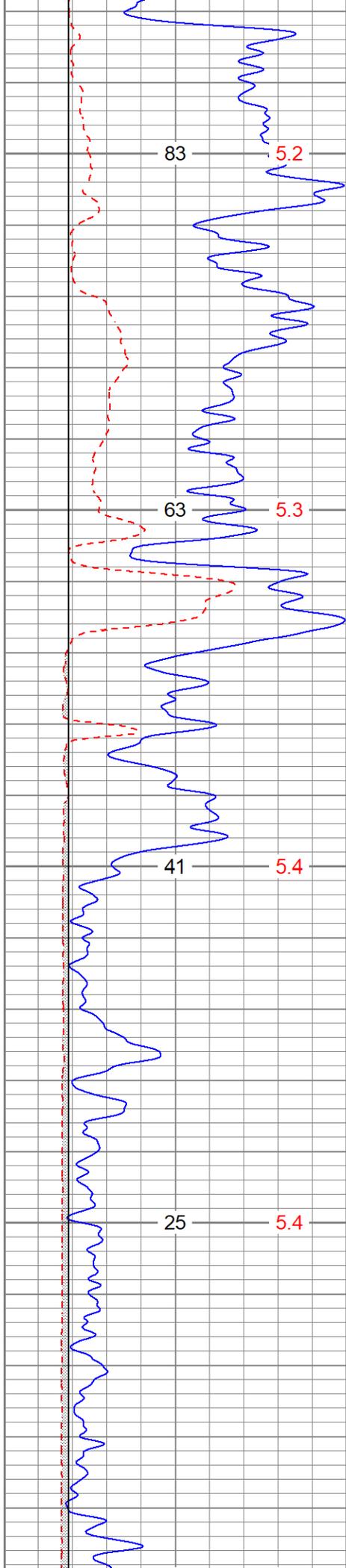
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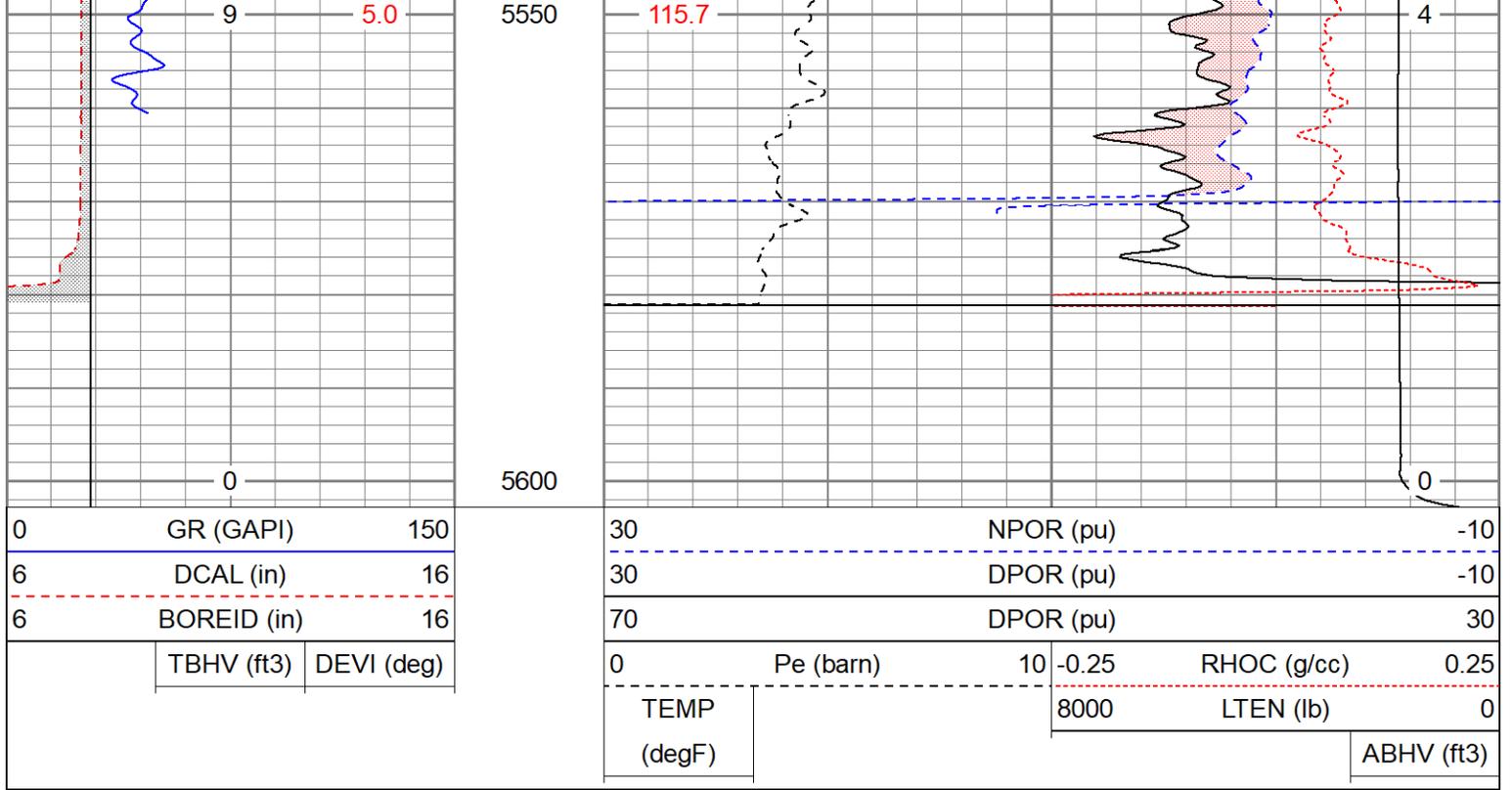
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0	GR (GAPI)	150	30	NPOR (pu)	-10
6	DCAL (in)	16	30	DPOR (pu)	-10
6	BOREID (in)	16	70	DPOR (pu)	30
	TBHV (ft3)	DEVI (deg)	0	Pe (barn)	10 -0.25
					RHOC (g/cc) 0.25
				TEMP (degF)	8000
					LTEN (lb) 0
					ABHV (ft3)









Calibration Report

Database File berexcoellen#1-15oh.db
 Dataset Pathname pass2.1
 Dataset Creation Mon Feb 13 23:25:02 2023

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Wed May 5 19:18:35 2021
 Downhole Cal Performed: Wed May 5 19:19:37 2021
 After Survey Verification Performed: Wed May 5 19:19:37 2021

Surface Calibration

Loop:	Readings				References			Results	
	Air	Loop			Air	Loop		m	b
Deep	0.001	0.643	V	0.000	350.000	mmho/m	545.845	-0.739	
Medium	0.006	0.727	V	0.000	400.000	mmho/m	554.957	-3.517	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.001	0.642	V	0.000	350.000	mmho/m	545.941	-0.743	
Medium	0.006	0.727	V	0.000	550.000	mmho/m	762.787	-4.700	

Downhole Calibration

Internal:	Readings				References			Results	
	Zero	Cal			Zero	Cal		m	b
Deep	0.127	350.109	mmho/m	0.003	349.942	mmho/m	1.000	-0.123	
Medium	0.122	400.202	mmho/m	-0.097	400.049	mmho/m	1.000	-0.219	
Shallow	2.429	0.012	V	500.000	2.000	Ohm-m	205.985	0.227	

After Survey Verification

Readings Targets Results

Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.127	350.109	mmho/m	1.000	-0.123
Medium	0.000	0.000	mmho/m	0.122	400.202	mmho/m	1.000	-0.219
Shallow	0.000	0.000	Ohm-m	500.000	2.000	Ohm-m	1.000	0.000

Admyr Lithodensity Calibration Report

Serial-Model: 1C-C
Source: Blue2
Master Calibration Performed: Tue Aug 30 10:20:37 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.670	g/cc	6362.49	3546.71	cps
Aluminium	2.640	g/cc	1733.54	2362.69	cps
Aluminium+Sleeve	2.617	g/cc	1657.01	2197.69	cps

Spine Angle = 72.65

Density/Spine Ratio = 0.712

	PE		NLITH	NHARD	
Magnesium	2.000	barn	2520.00	1620.00	cps
Aluminium	3.000	barn	1926.00	1699.00	cps
Aluminium+Sleeve	5.000	barn	915.00	1230.00	cps

M = 0.370

B = -0.079

R = 0.999

	Size		Reading	
Small Ring	8.00	in	8.61	V
Large Ring	14.30	in	12.40	V

Neutron Calibration Report

Serial Number: AD5139
Tool Model: ADMY5139
Performed: (Not Performed)

Calibrator Value: 1 NAPI
Calibrator Reading: 1 cps
Sensitivity: 1 NAPI/cps

Temperature Calibration Report

Serial Number: WithMC
Tool Model: WMC
Performed: Fri Apr 19 12:15:04 2019

	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

Inclinometer Calibration Report

Performed: Wed May 5 19:20:48 2021

Low Read. High Read. Low Ref. High Ref.

X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Gamma Ray Calibration Report

Serial Number:	WithMC	
Tool Model:	WMC	
Performed:	Wed Jun 15 11:53:49 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.1000	GAPI/cps