



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Griffin Management LLC
 Well Marla 3
 Field Lee Ranch
 County Barber
 State Kansas

Location: API #: 15-007-24415-00-00
 2060 FSL & 915 FEL
 SEC 5 TWP 30S RGE 15W
 Permanent Datum Ground Level Elevation 2000
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing

Other Services
 DIL
 MEL
 Elevation
 K.B. 2005
 D.F.
 G.L. 2000

Date	4/28/2020						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	4850						
Depth Logger	4851						
Bottom Logged Interval	4822						
Top Logged Interval	2800						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	5000						
Density	9.1						
Level	Full						
Max. Rec. Temp. F	125						
Operating Rig Time	2 Hours						
Equipment -- Location	P-108 HAYS						
Recorded By	J. Henrickson						
Witnessed By	Eli Felts						
Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	260	8.625	24	0	260
Two	7.875	260	TD				

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

Croft Kansas
 South to 110th, 1 East, South Into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

THANK YOU FOR USING MIDWEST WIRELINE LLC
 785-625-3858

Your Midwest Wireline Crew

Engineer: J. Henrickson
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: Eli Felts
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_marla_3.db
Dataset field/well/stackml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	125	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	395	75	Off	4851

Variable Description

A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density

NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (303-03)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSI STKBL ML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					

CILD 8.33

CILM 4.50

SP 0.20

DIL-M&W (504 HT)

18.25

3.50

220.00

Dataset: griffin_marla_3.db: field/well/stackml/pass3.1
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in



MIDWEST WIRELINE

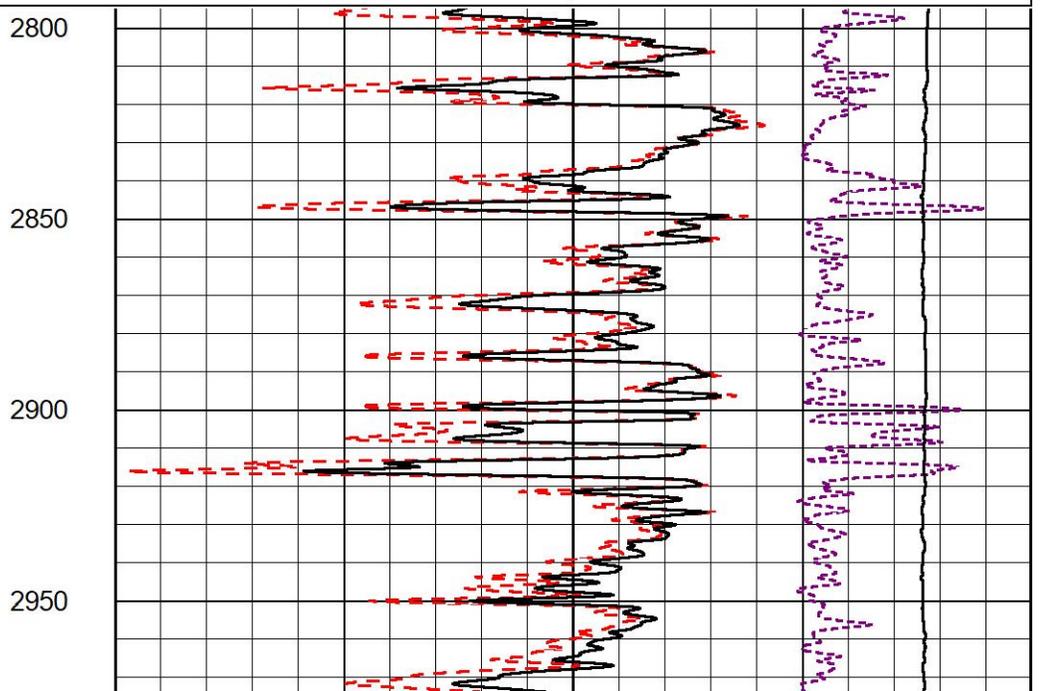
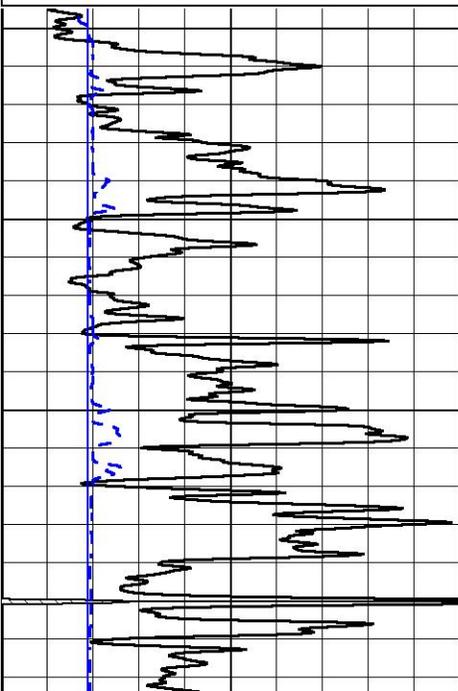
2" SCALE BULK DENSITY

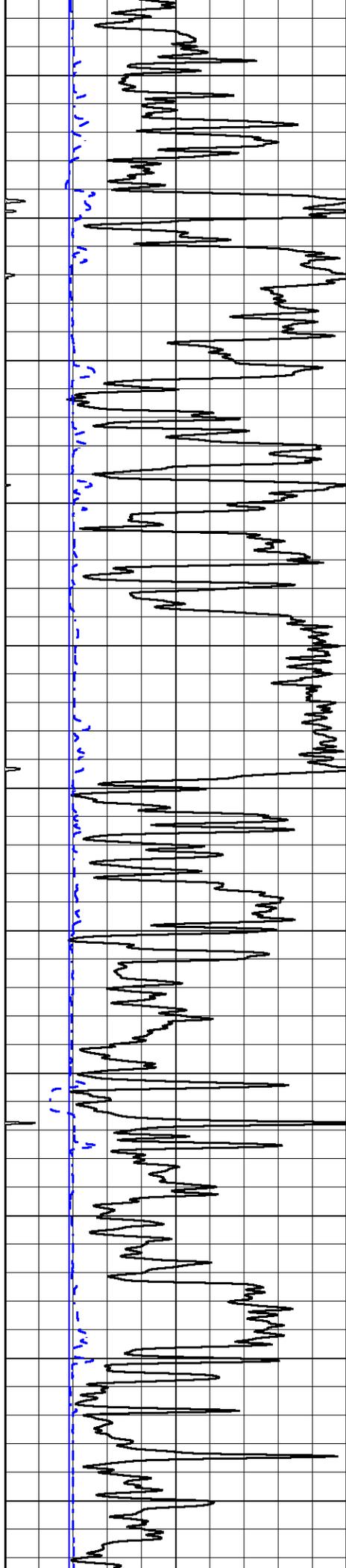
MAIN PASS

Database File griffin_marla_3.db
 Dataset Pathname stackml/pass3.1
 Presentation Format _cdl
 Dataset Creation Thu Apr 28 09:13:38 2022
 Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25





3000

3050

3100

3150

3200

3250

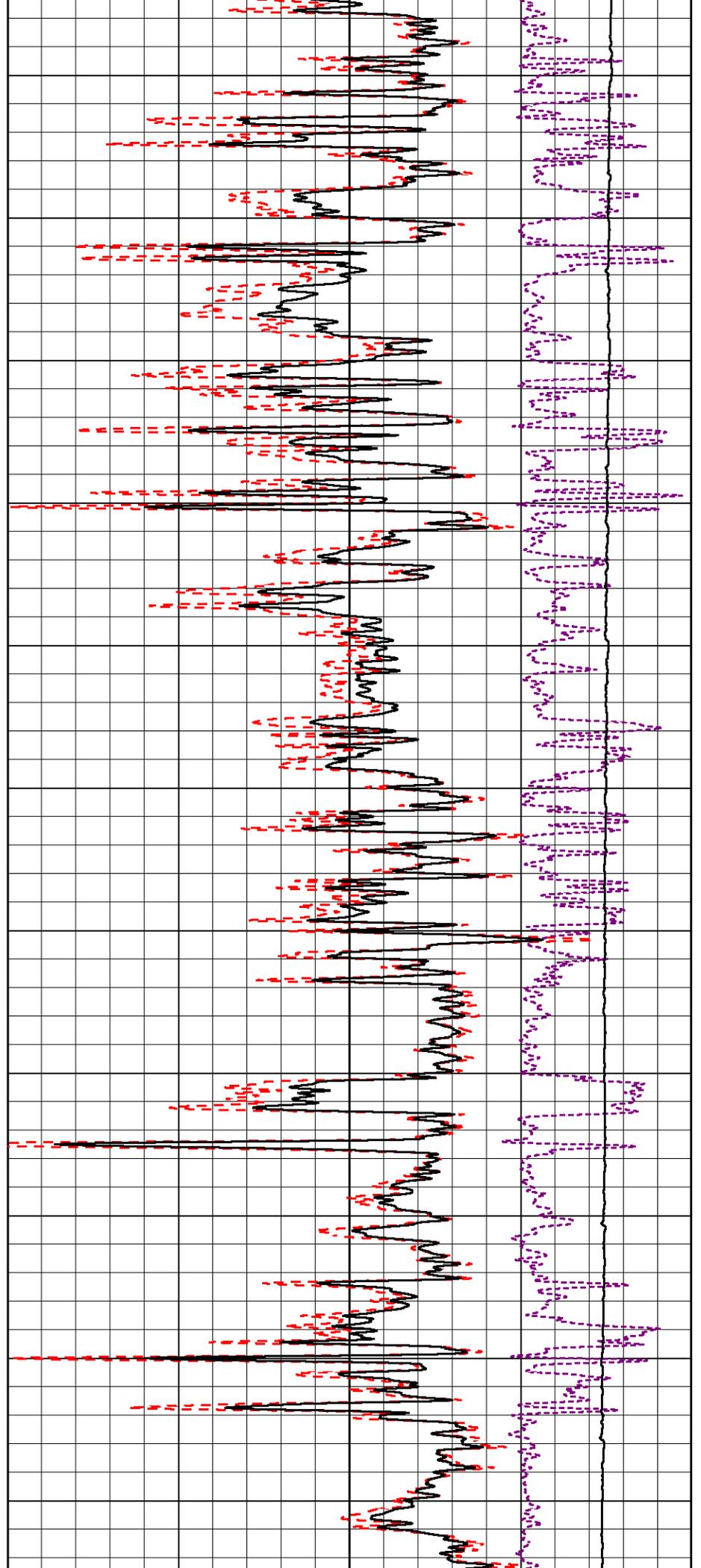
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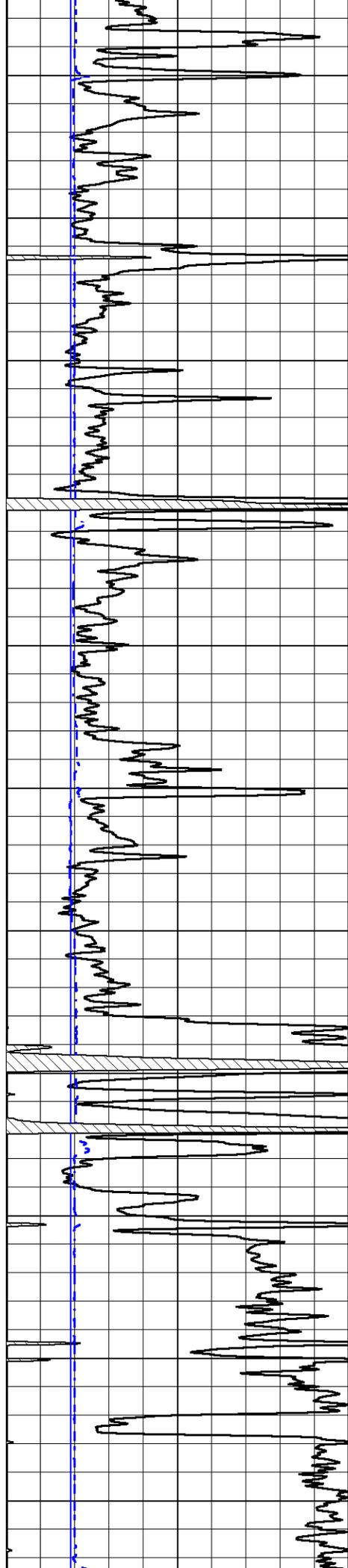
3350

3400

3450

3500





3550

3600

3650

3700

3750

3800

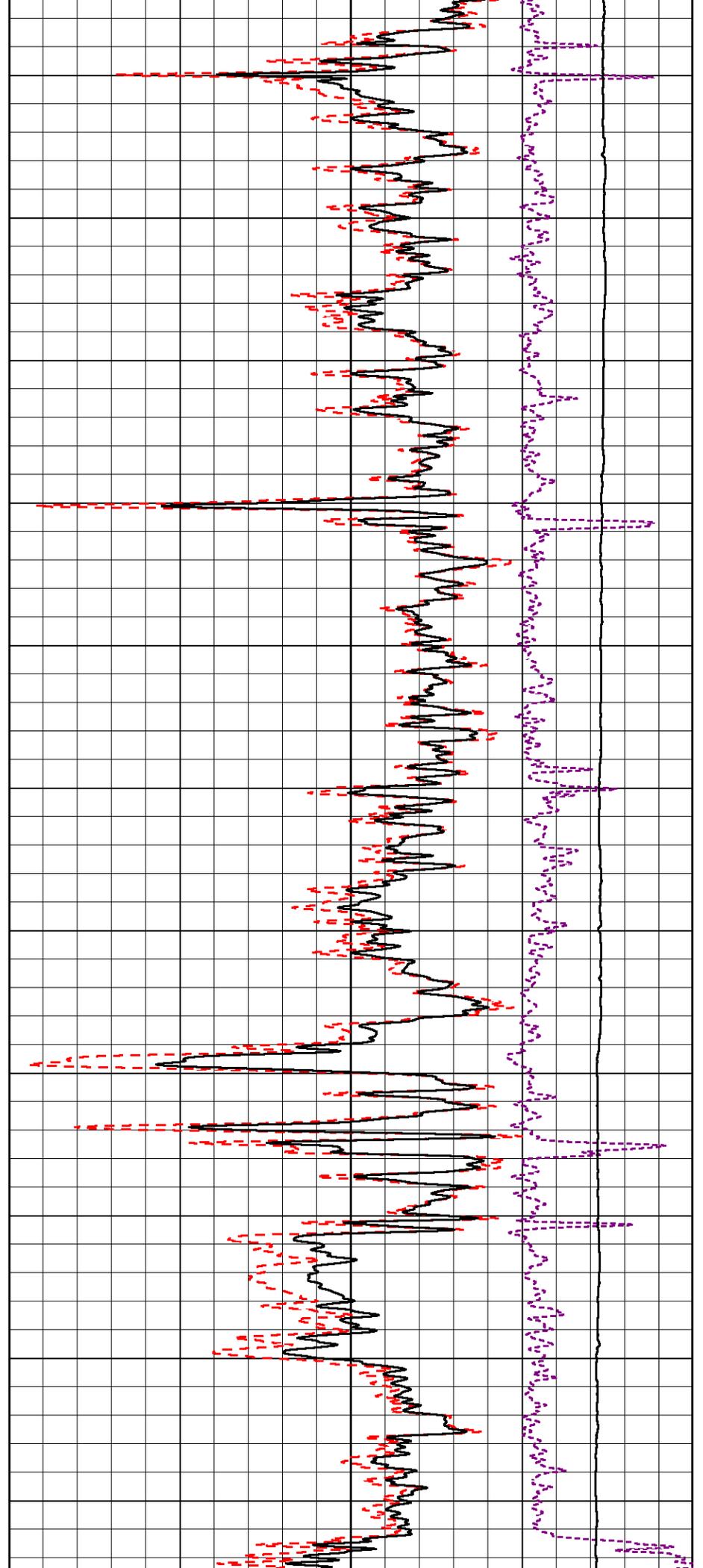
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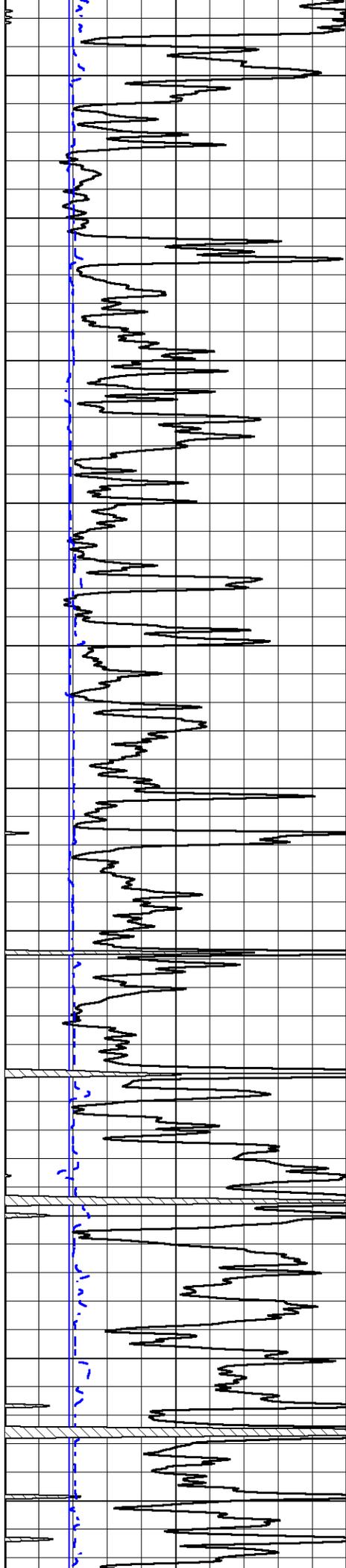
3900

3950

4000

4050





4100

4150

4200

4250

4300

4350

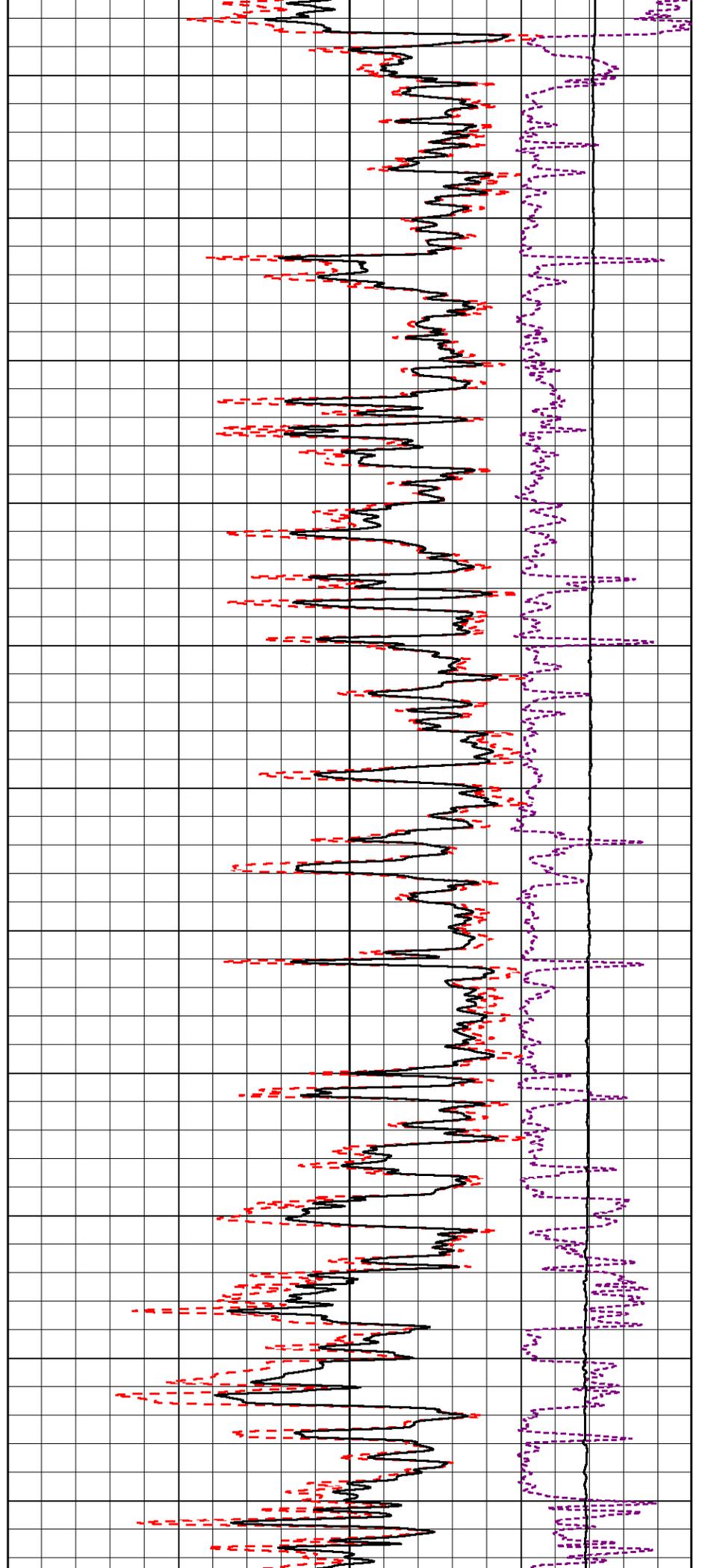
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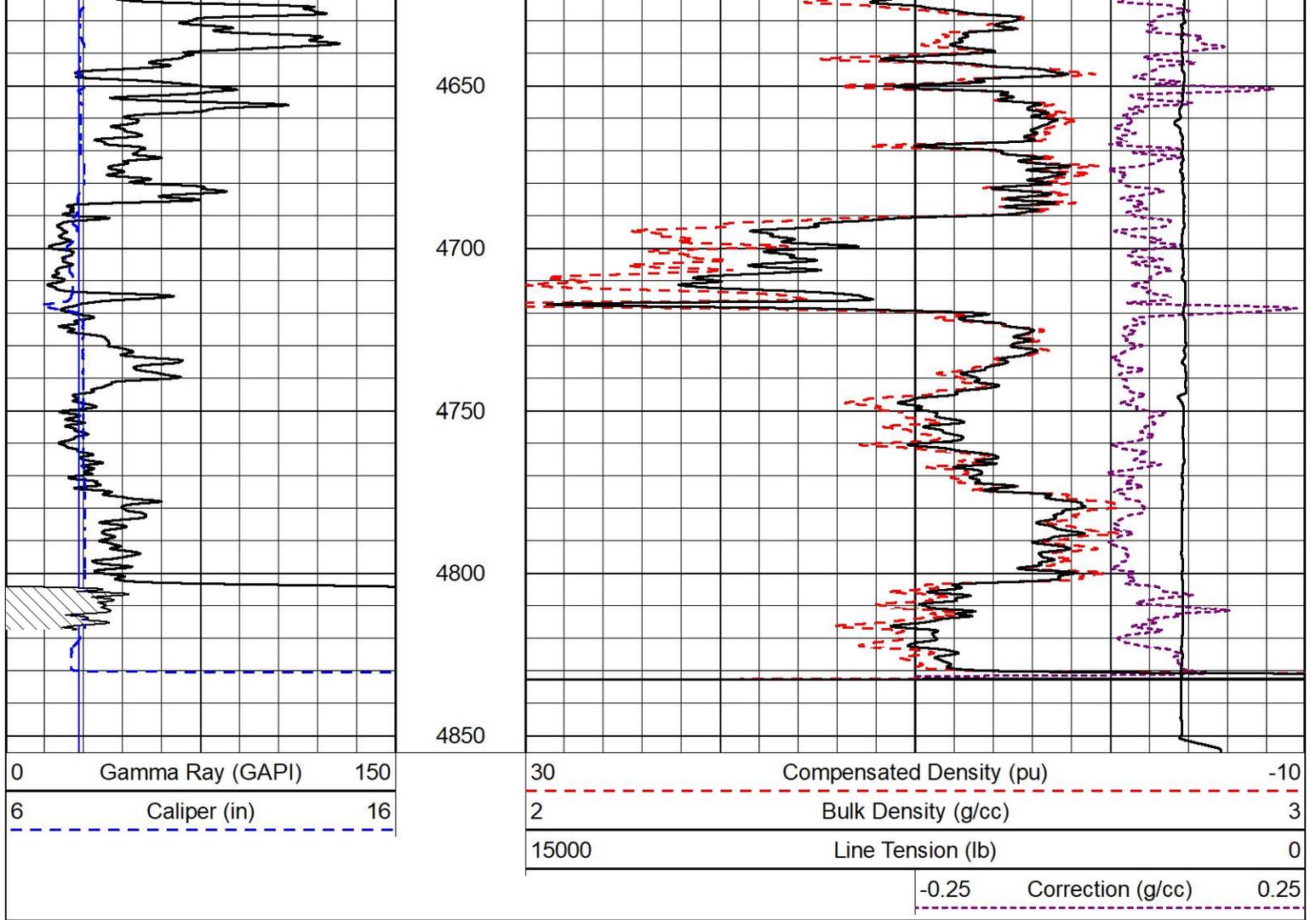
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4500

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4600

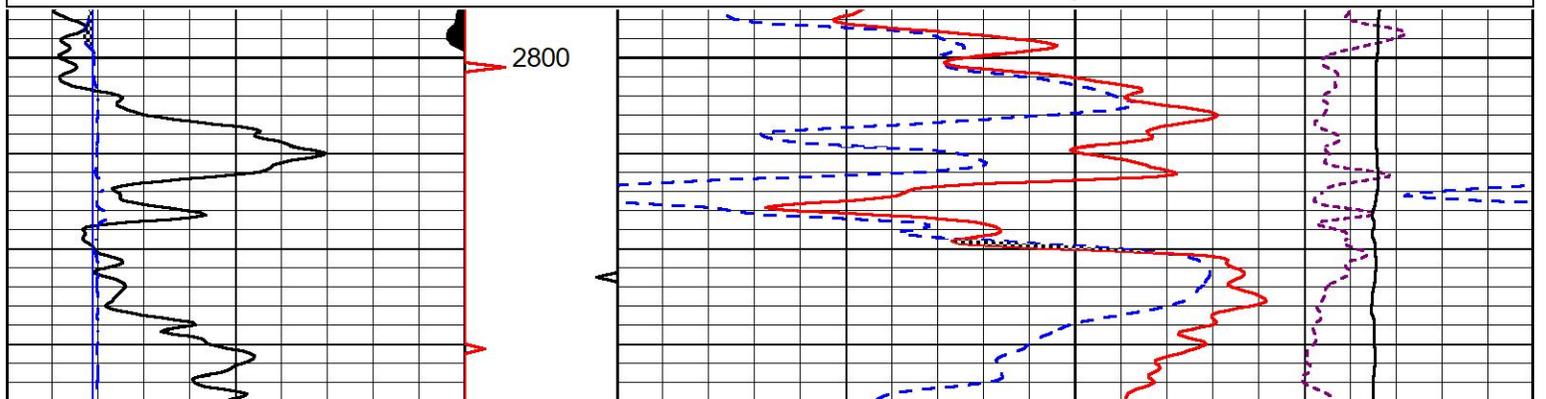
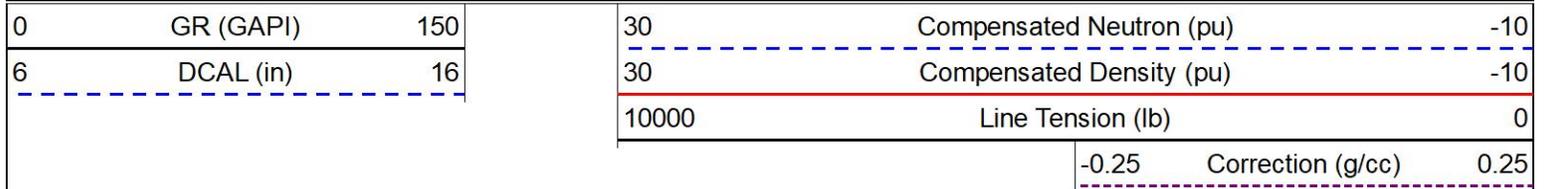


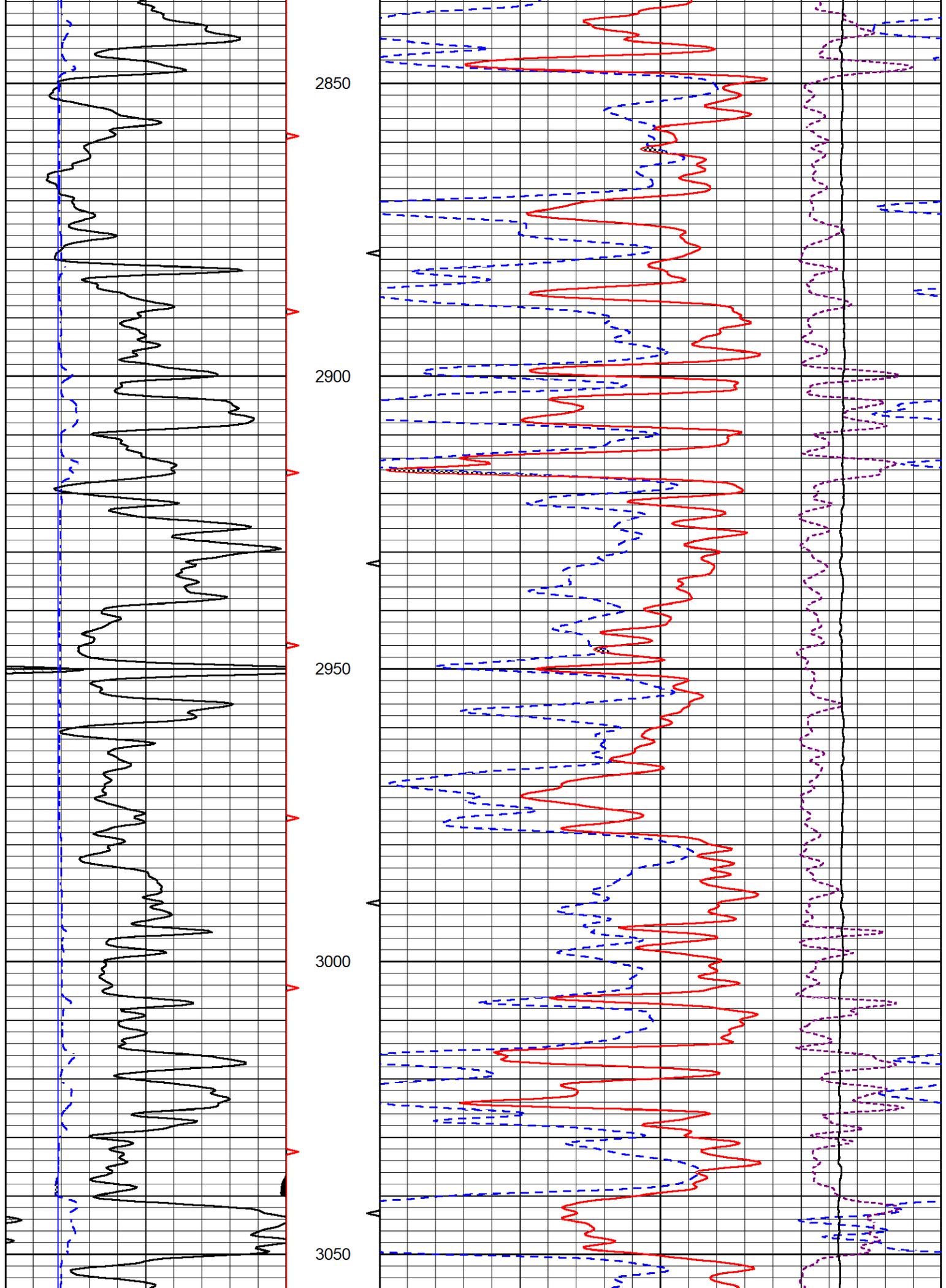


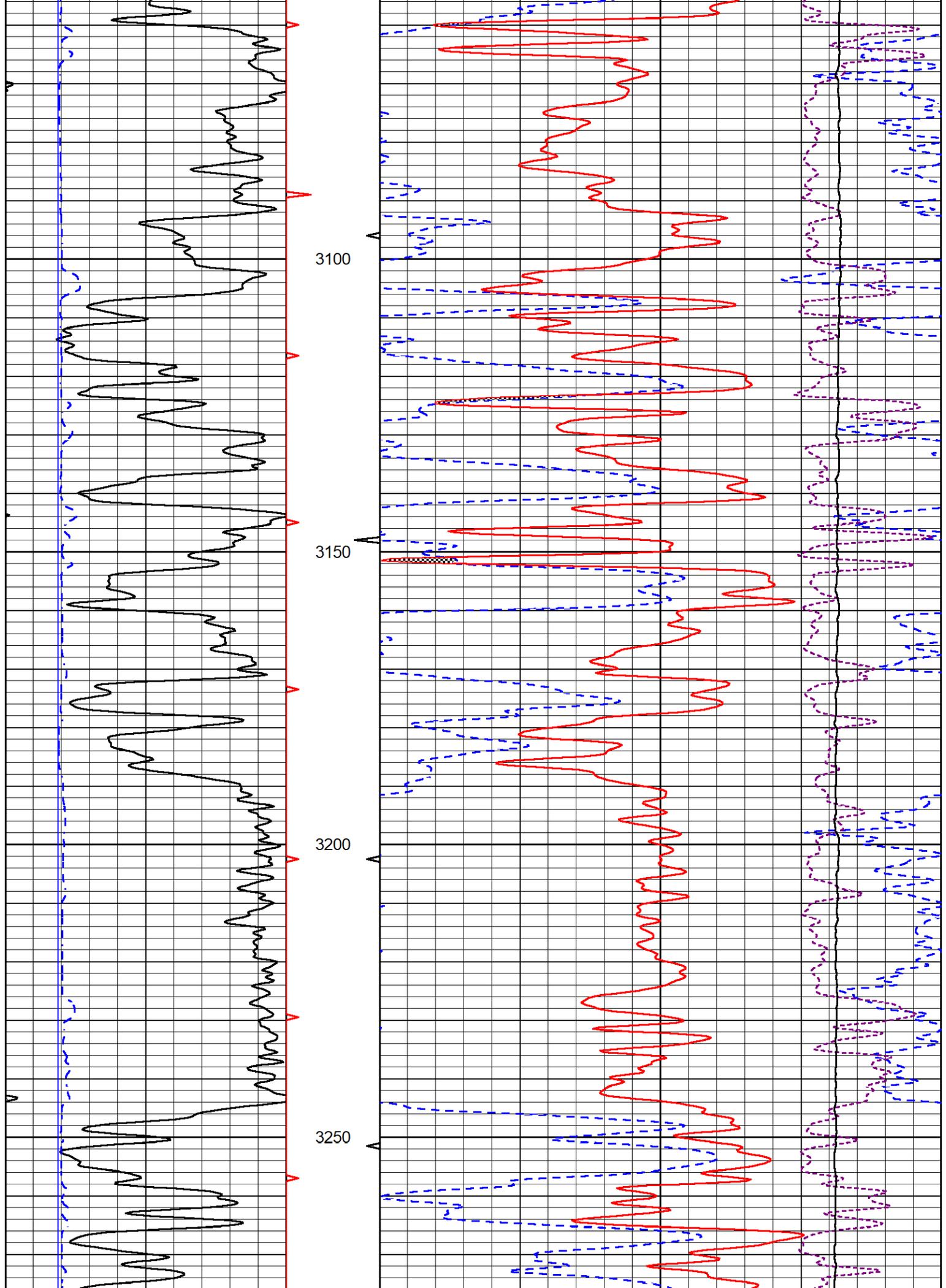
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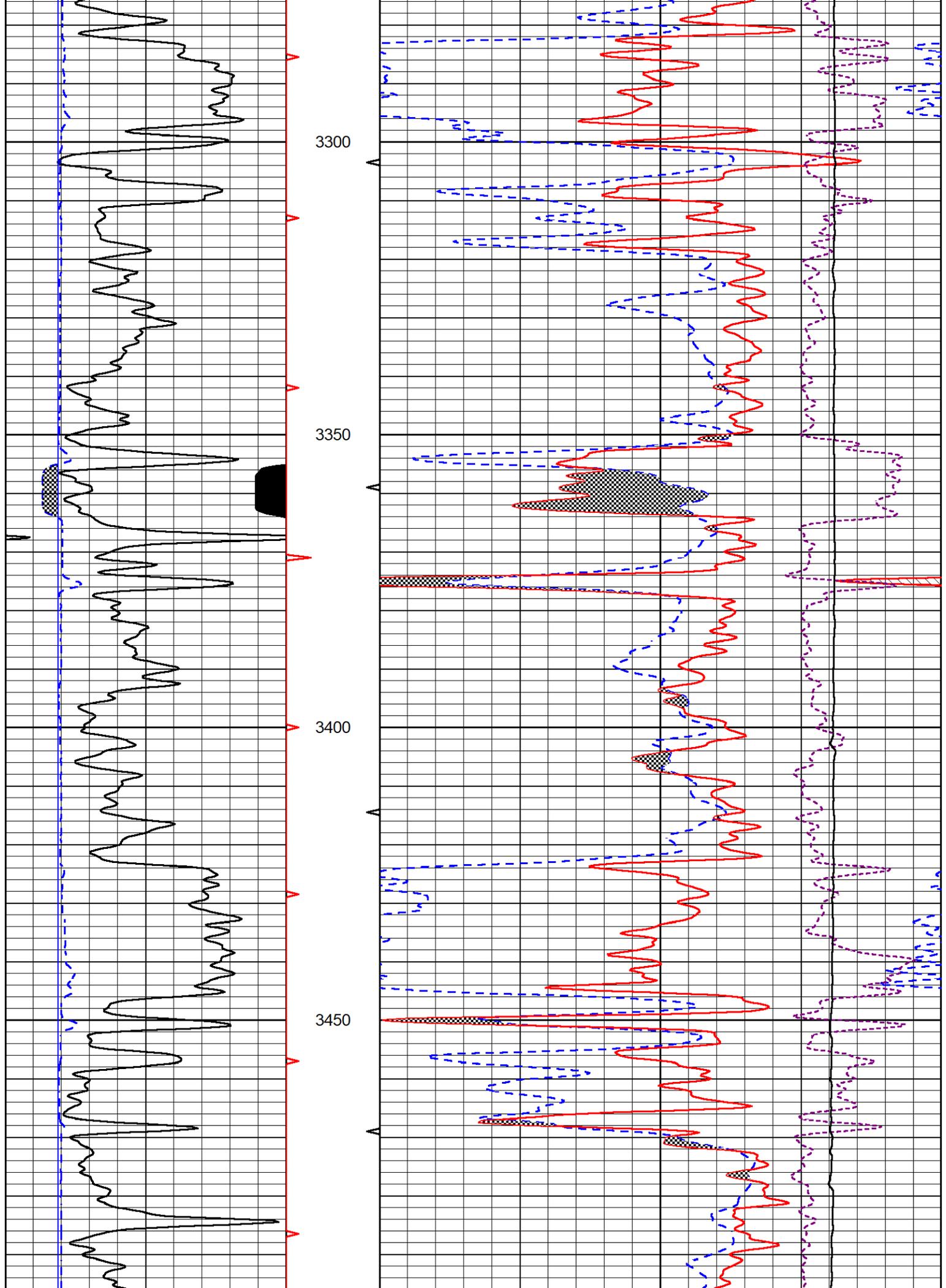
MAIN PASS

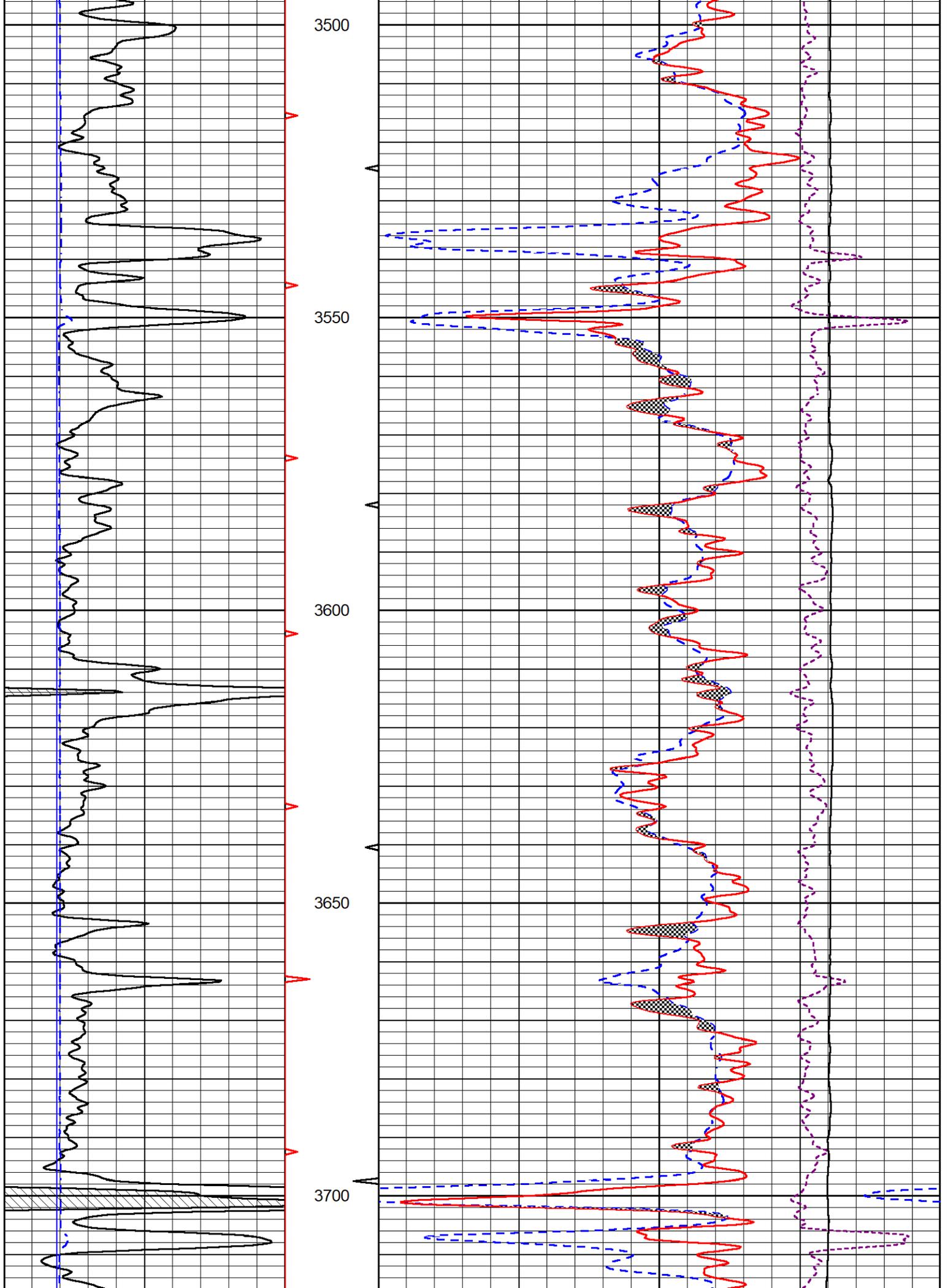
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 Presentation Format _CNDLS~1
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 Charted by Depth in Feet scaled 1:240

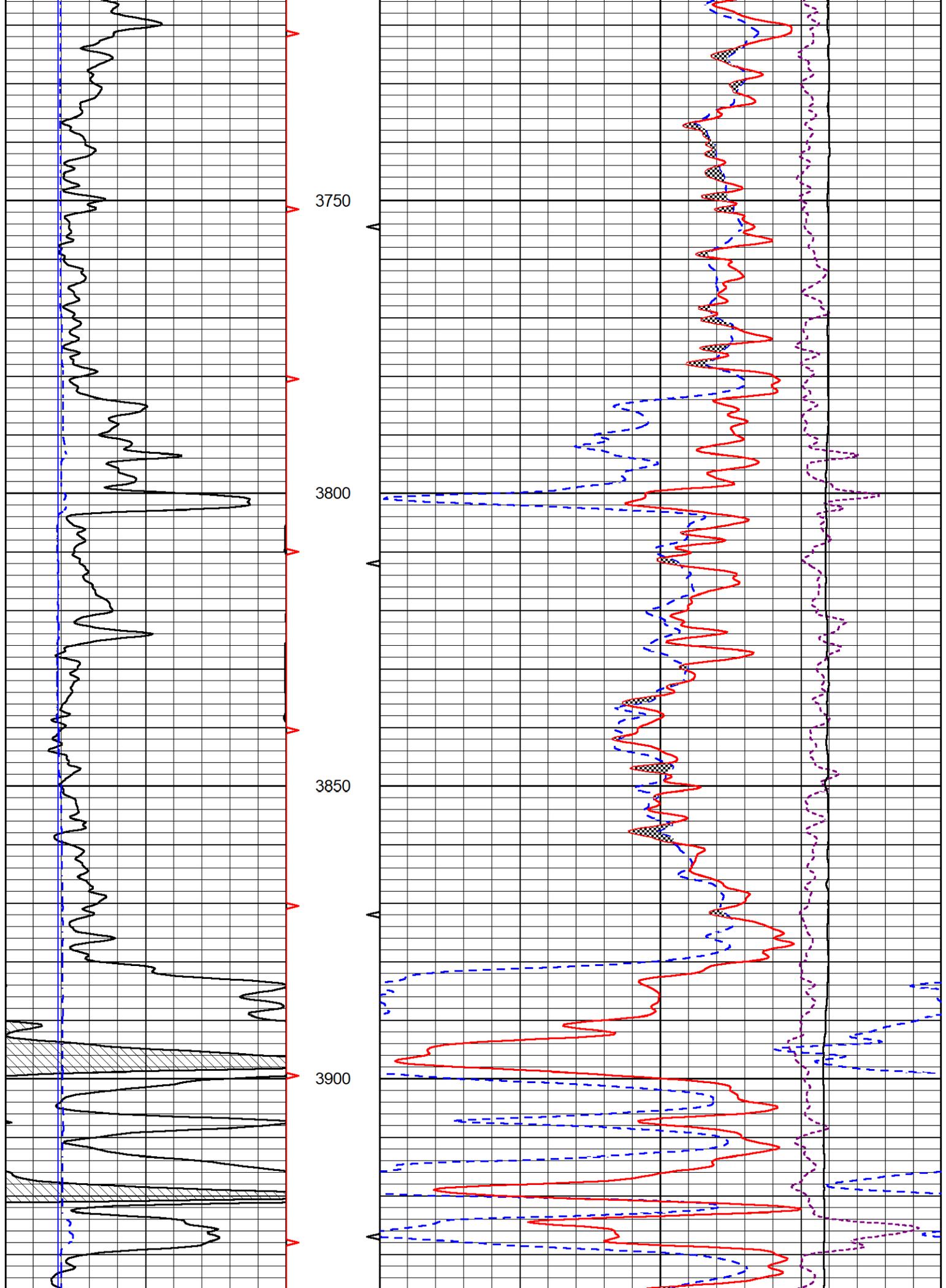


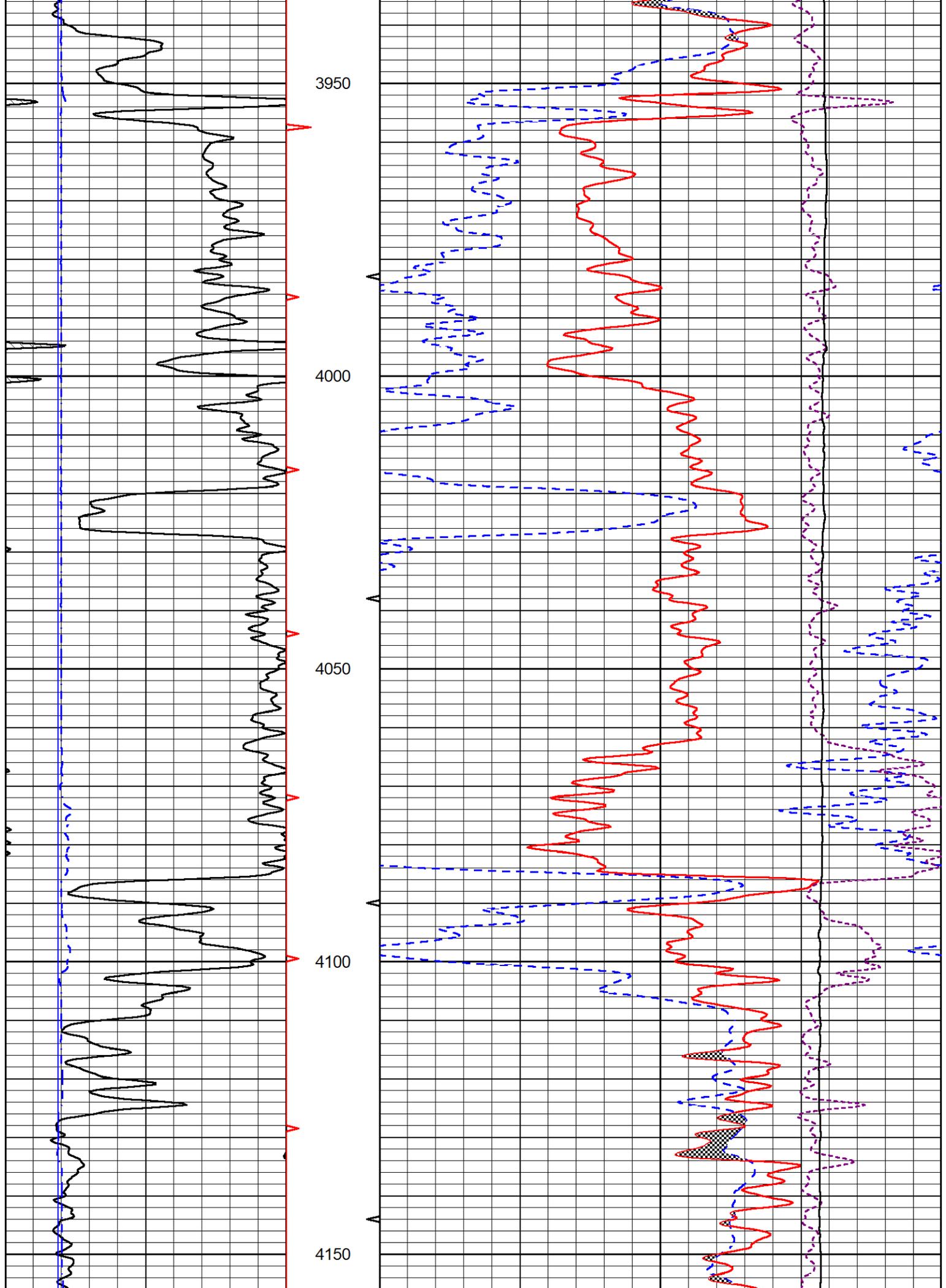


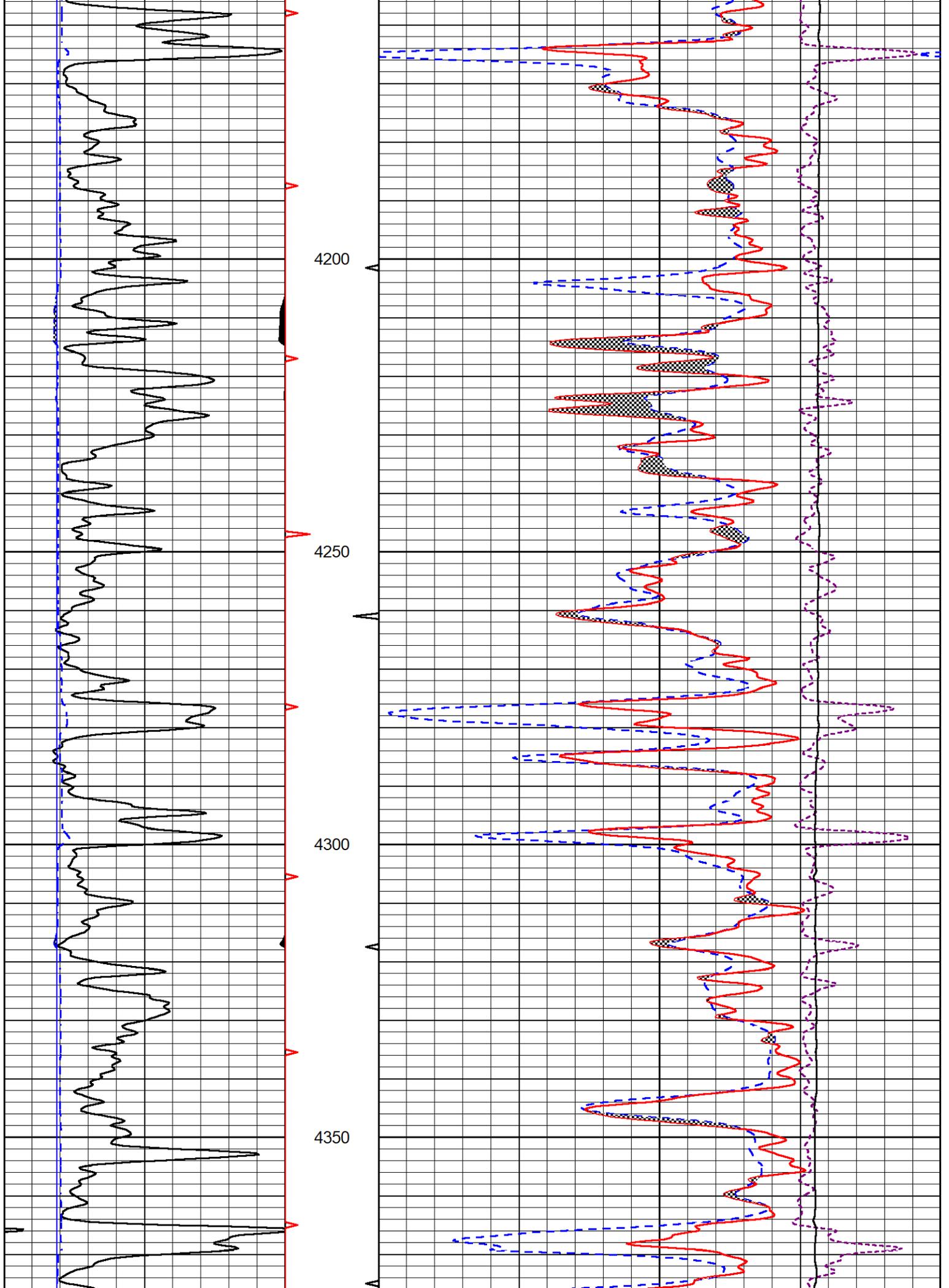


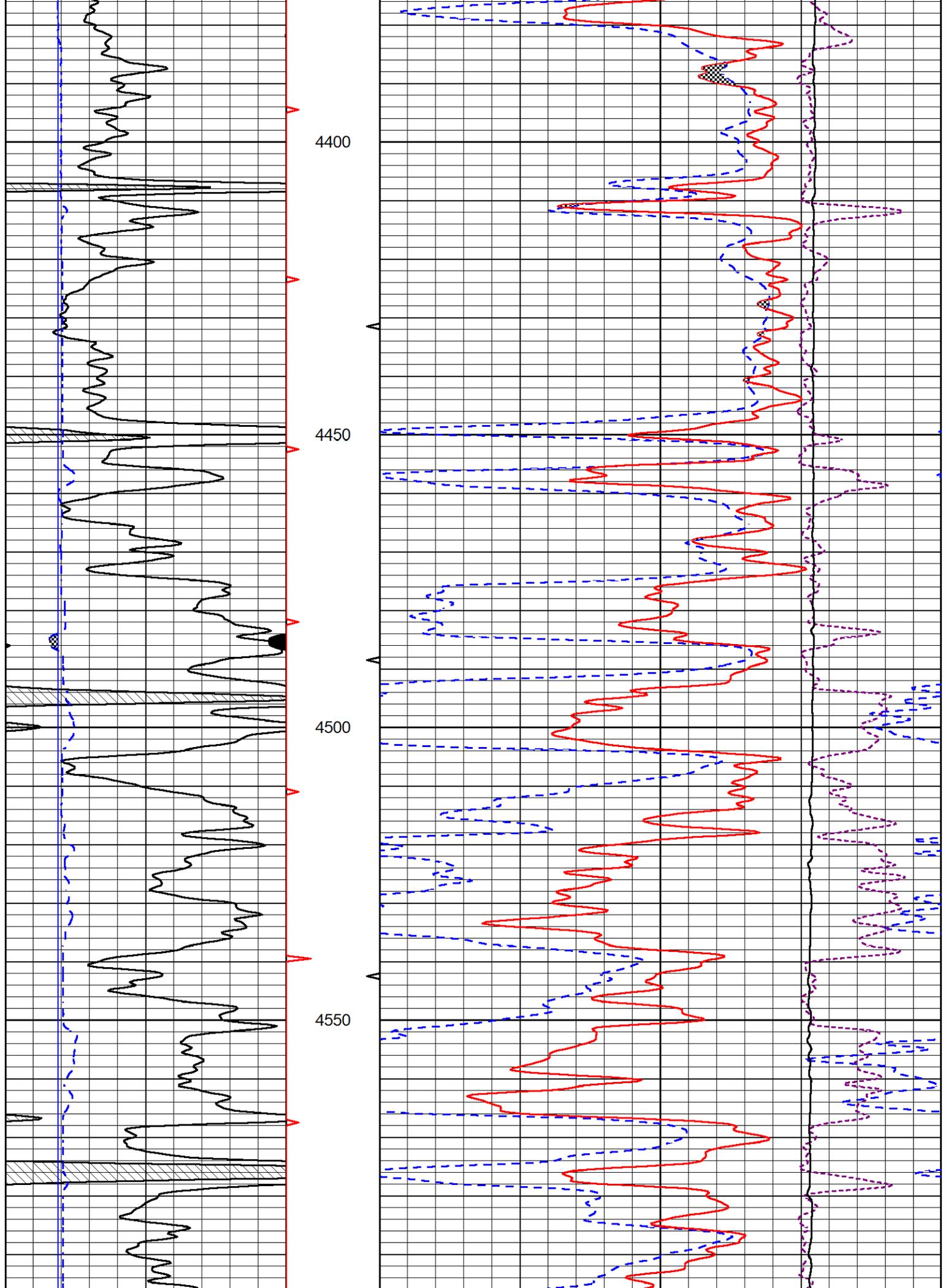


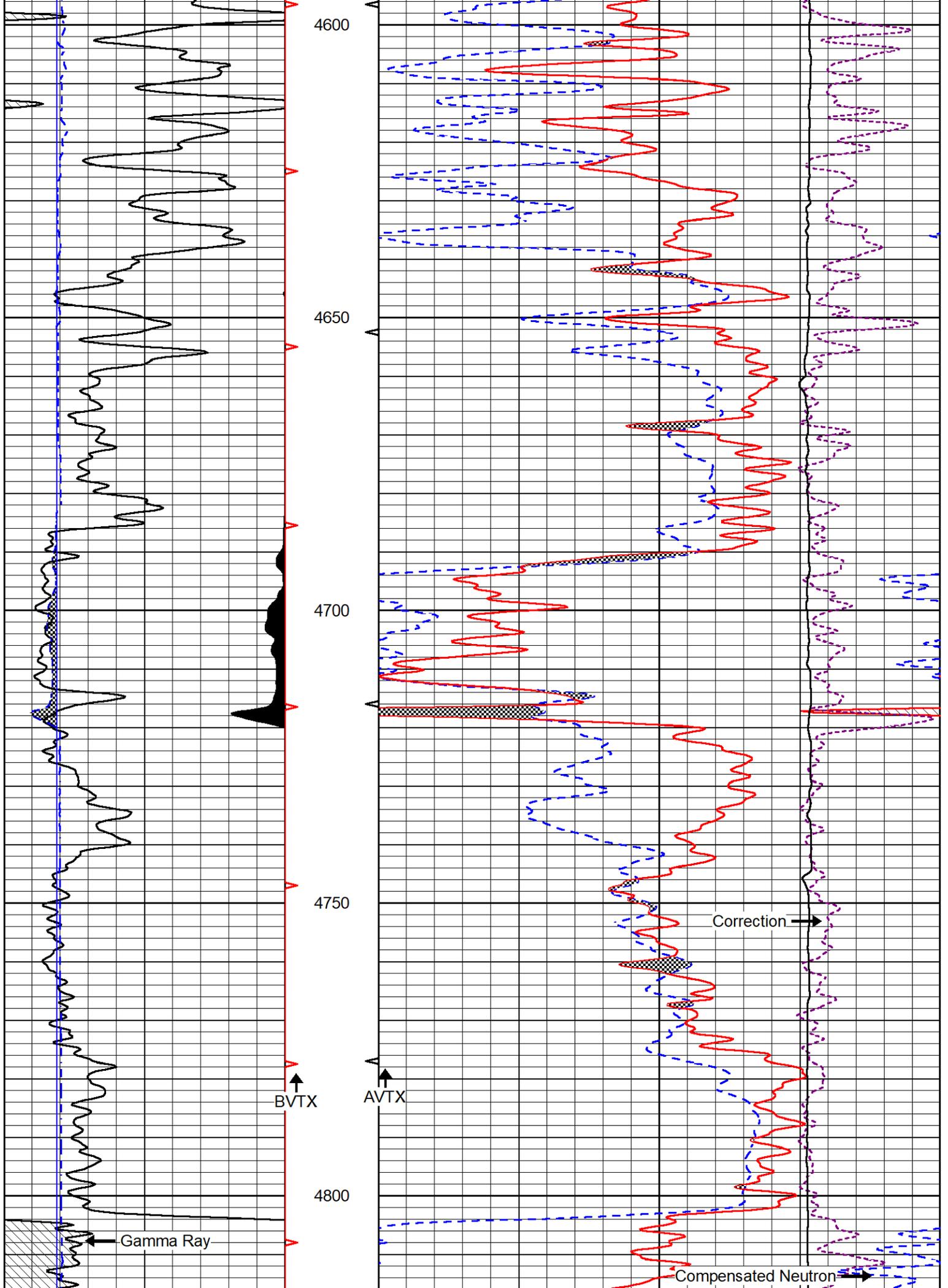


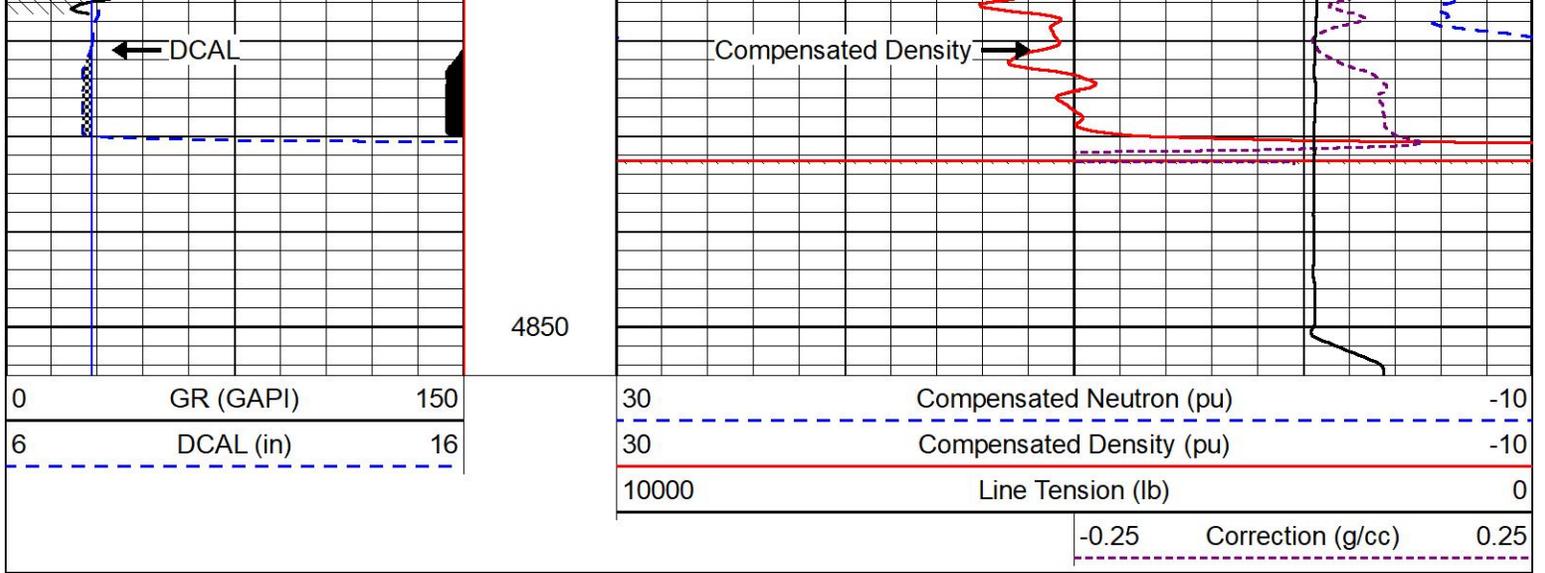










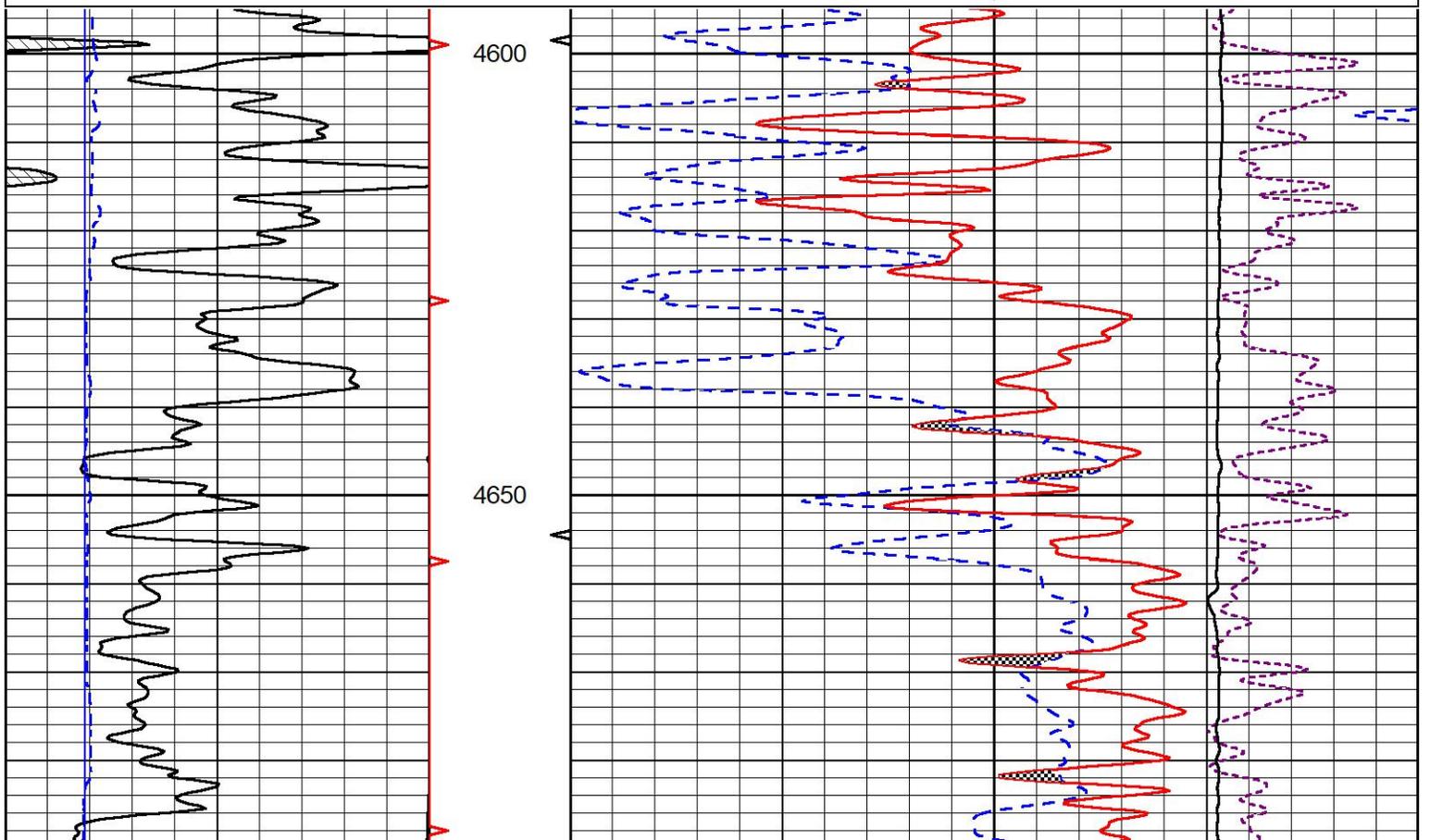
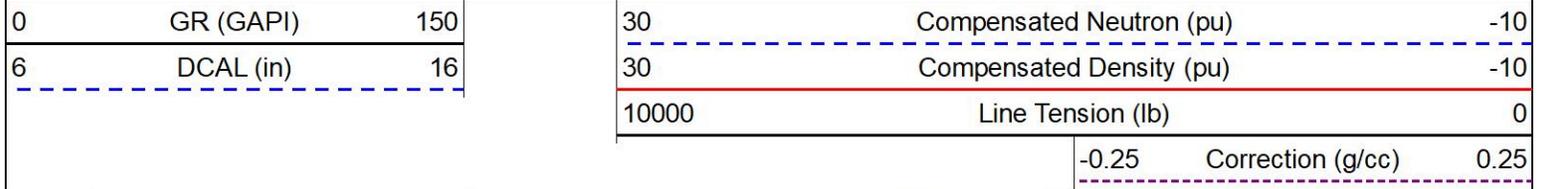


MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File griffin_marla_3.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Thu Apr 28 09:05:33 2022
 Charted by Depth in Feet scaled 1:240



Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-19.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report

Serial-Model: 402-PSI STKBL ML
 Performed: Sat Mar 19 19:10:40 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	17000.0000	-1.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	15500.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.2000

Compensated Density Calibration Report

Serial-Model: 303-03-M&W
 Source #: 21170B
 Master Calibration Performed: Thu Dec 16 23:28:34 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3841.78	5151.73	cps
Aluminum	2.670	g/cc	700.98	3068.49	cps
Spine Angle = 73.06			Density/Spine Ratio = 0.515		
	Size		Reading		
Small Ring	4.00	in	1.17		
Large Ring	14.00	in	1.04		

Compensated Neutron Calibration Report

Serial-Model: 210-M&W
 Source #: N-1238
 Master Calibration Performed: Fri Dec 3 09:16:24 2021

Master Calibration

Detector	Readings	Target	Normalization
Short Space	6240.00 cps	1000.00 cps	1.6025
Long Space	460.00 cps	1000.00 cps	1.9500

Gamma Ray Calibration Report

Serial Number: 103
 Tool Model: M&W
 Performed: Fri Dec 3 12:13:24 2021

Calibrator Value: 500.0 GAPI

Background Reading:

28.0

cps

Calibrator Reading:

986.0

cps

Sensitivity:

0.5700

GAPI/cps



MIDWEST WIRELINE

Company

Griffin Management LLC

Well

Marla 3

Field

Lee Ranch

County

Barber

State

Kansas