



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Griffin Management, LLC

Well Rea #2

Field

County Pratt

State Kansas

Company Griffin Management, LLC
 Well Rea #2
 Field
 County Pratt
 State Kansas

Location: API #: 15-151-22551-00-00

1650 FSL & 2310 FEL

SEC 32 TWP 29S RGE 15W

DIL/MEL

Other Services

Permanent Datum Ground Level Elevation 2001
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing

K.B. 2006
 D.F. G.L. 2001

Date 9/25/2022

Run Number One

Type Log CNL/CDL

Depth Driller 4860

Depth Logger 4858

Bottom Logged Interval 4839

Top Logged Interval 2800

Type Fluid In Hole Chemical

Salinity, PPM CL 7000

Density 9.3

Level Full

Max. Rec. Temp. F 125

Operating Rig Time 3 Hours

Equipment -- Location P-24 Hays

Recorded By D. Schmidt

Witnessed By Charles Griffin

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	261	8.625	23	0	261
Two	7.875	261	TD				

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

Croft,
 South to 110, 1 East, 1/2 South,
 West and 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: D. Schmidt
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: Charles Griffin
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (106)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (307-11)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (501 HT)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					

Dataset: griffin_rea 2.db: field/well/stkml/pass3.11
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_rea 2.db
 Dataset field/well/stkml/pass3.11/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	121	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	320	80	Off	4858

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



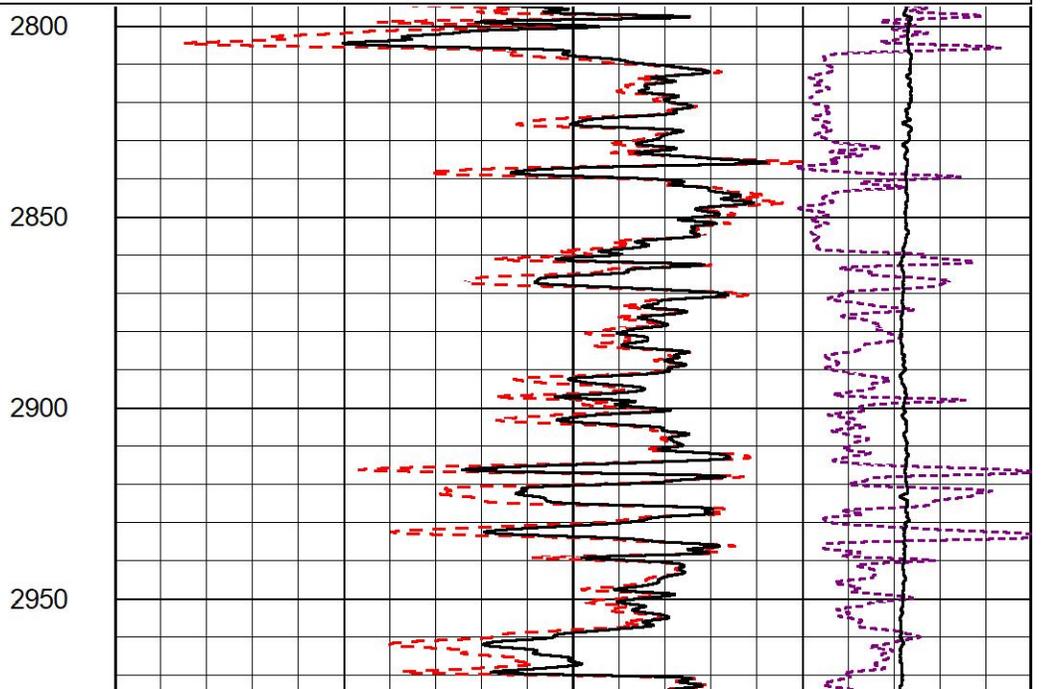
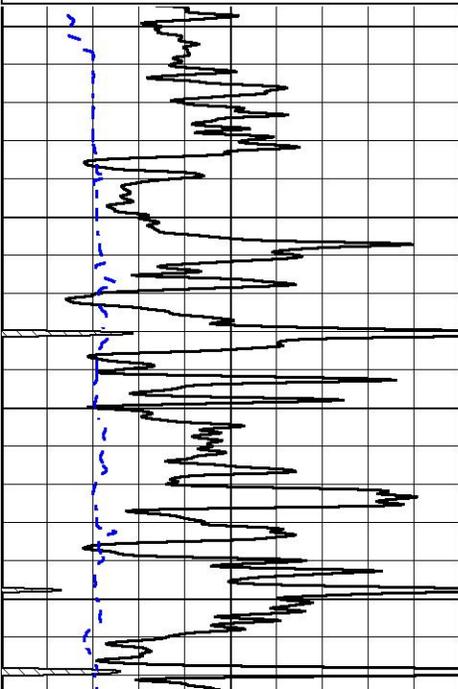
2" SCALE BULK DENSITY

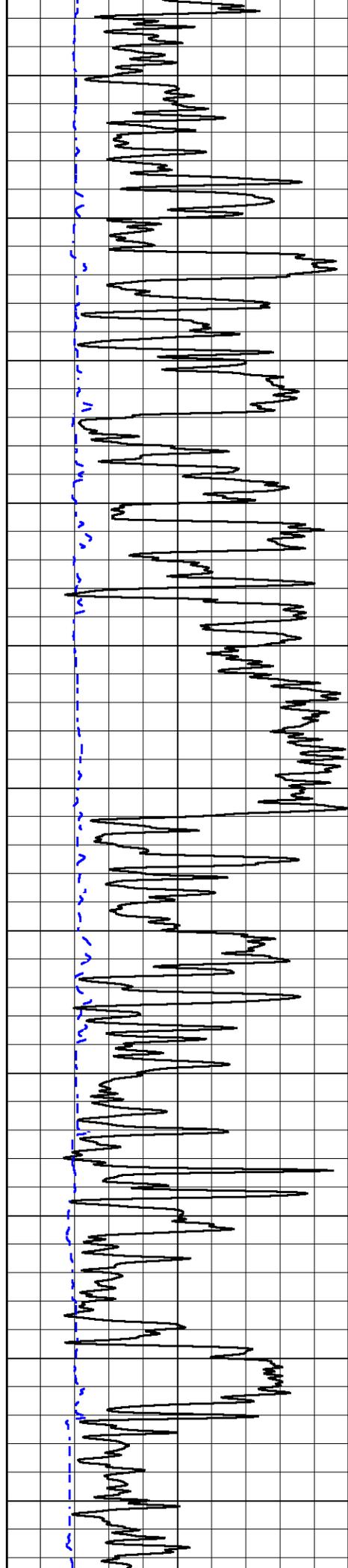
MAIN PASS

Database File griffin_rea 2.db
 Dataset Pathname stkml/pass3.2
 Presentation Format _cdl
 Dataset Creation Sun Sep 25 21:11:21 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
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25





3000

3050

3100

3150

3200

3250

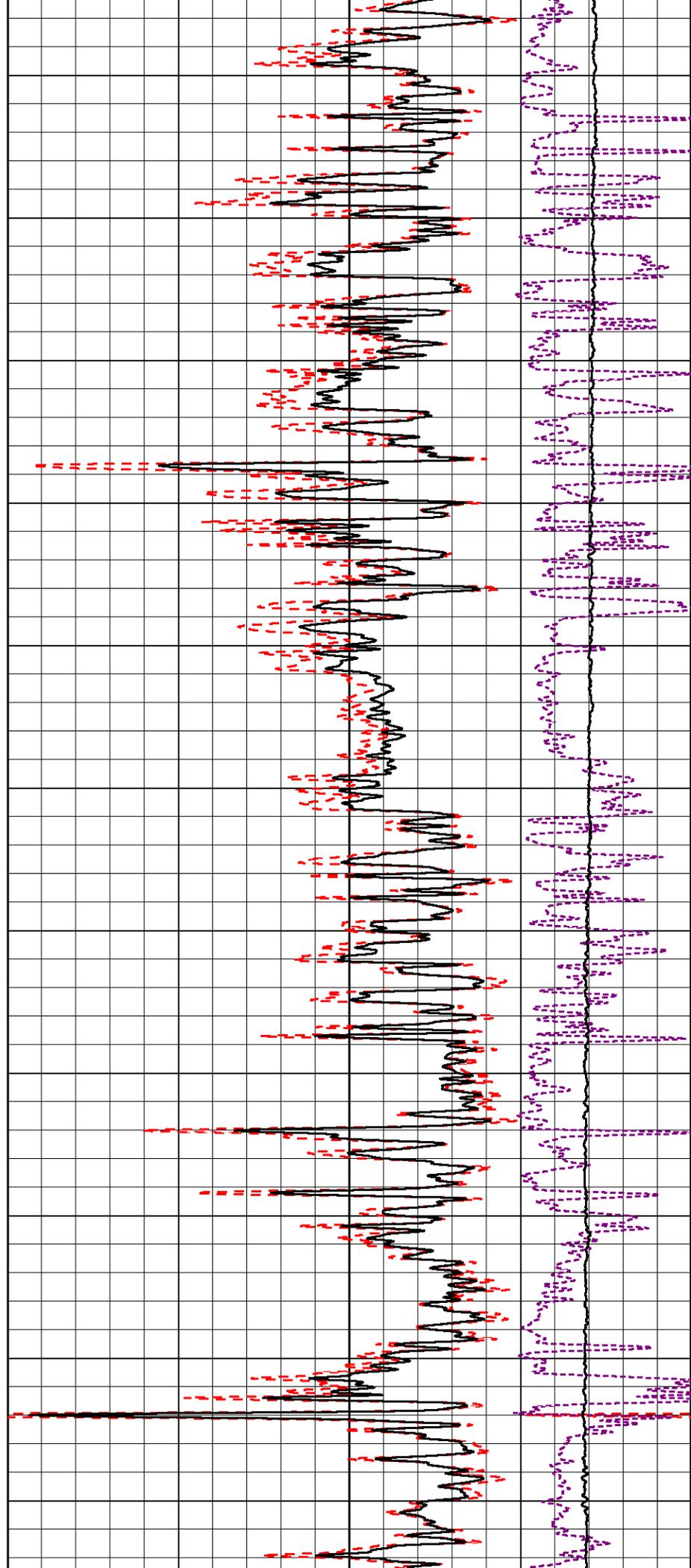
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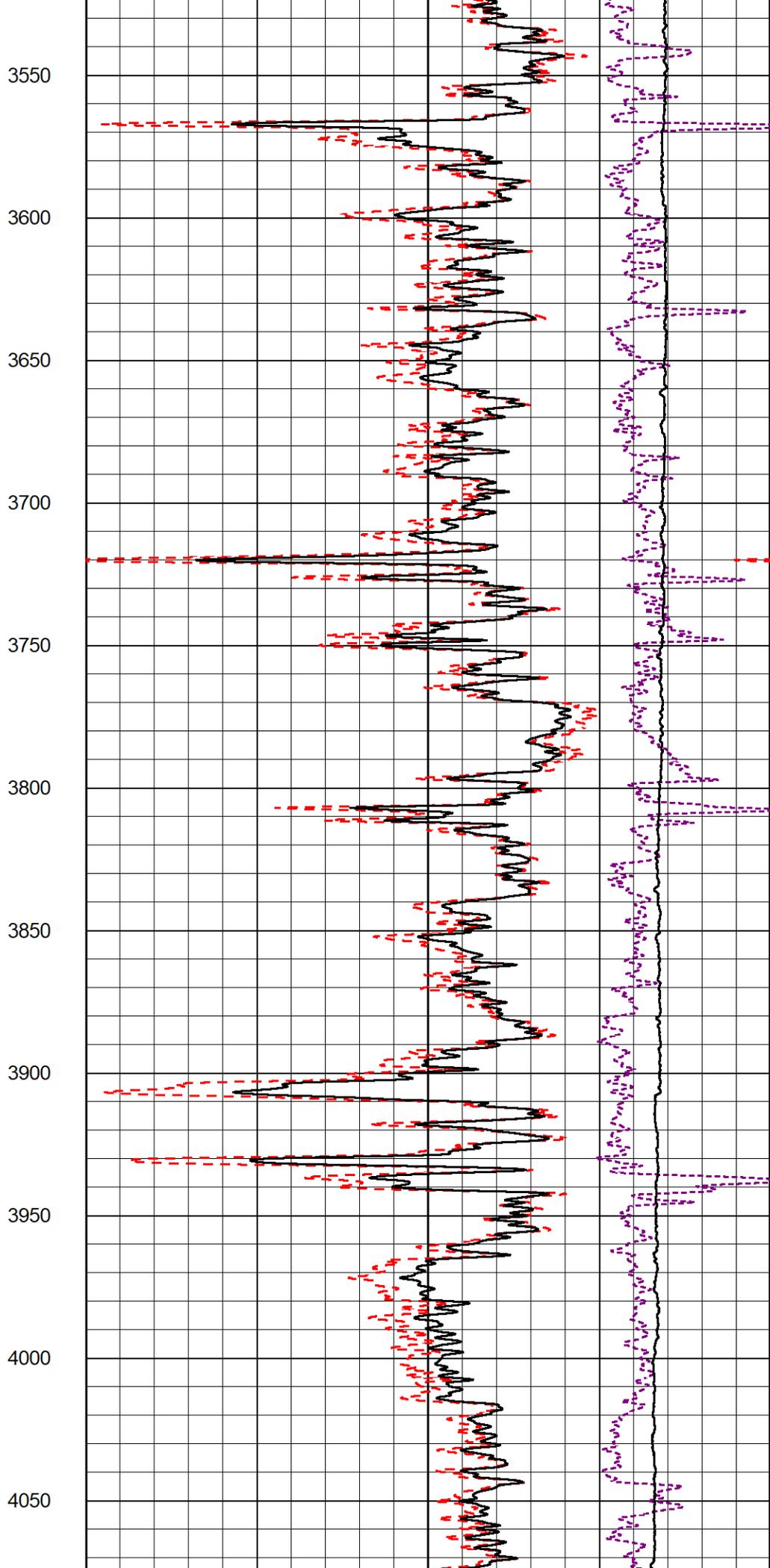
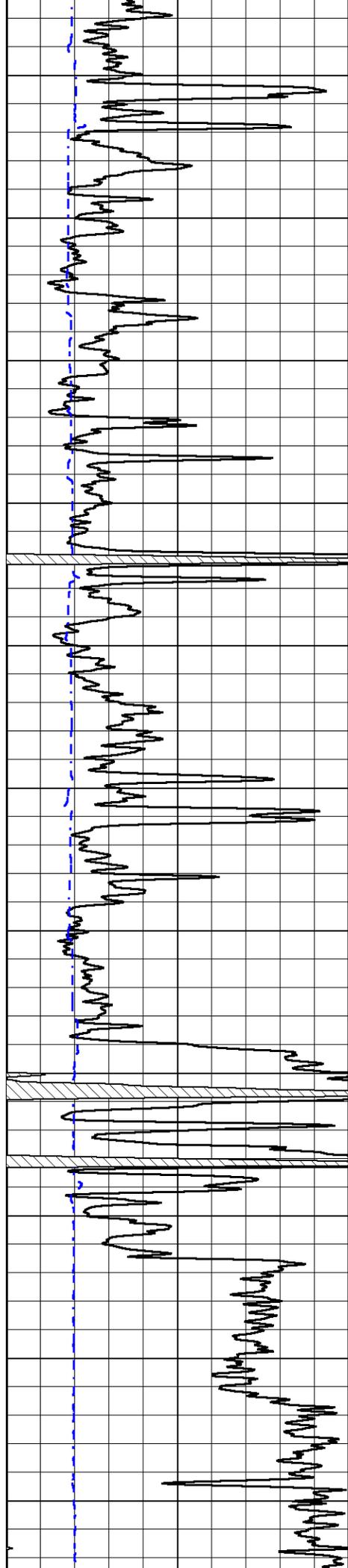
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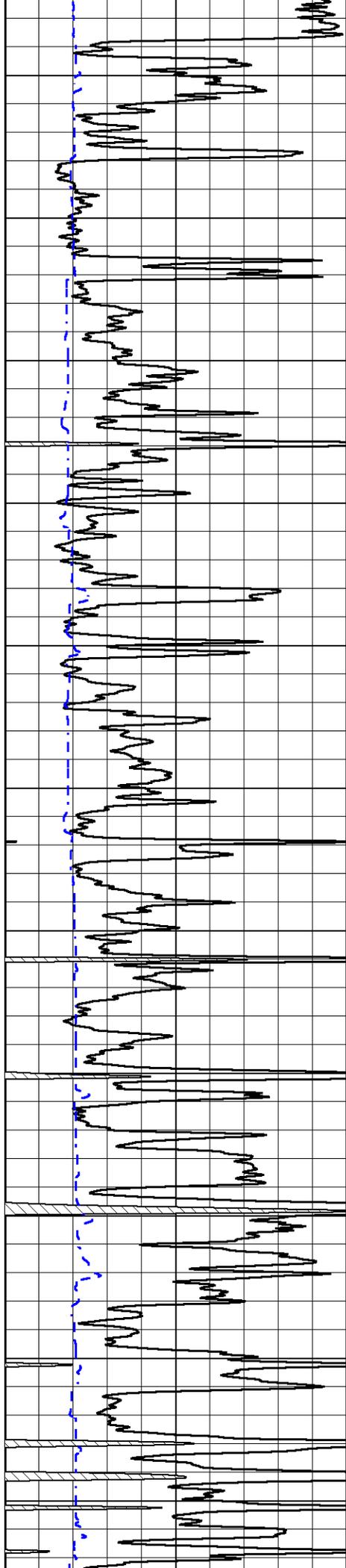
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3450

3500







4100

4150

4200

4250

4300

4350

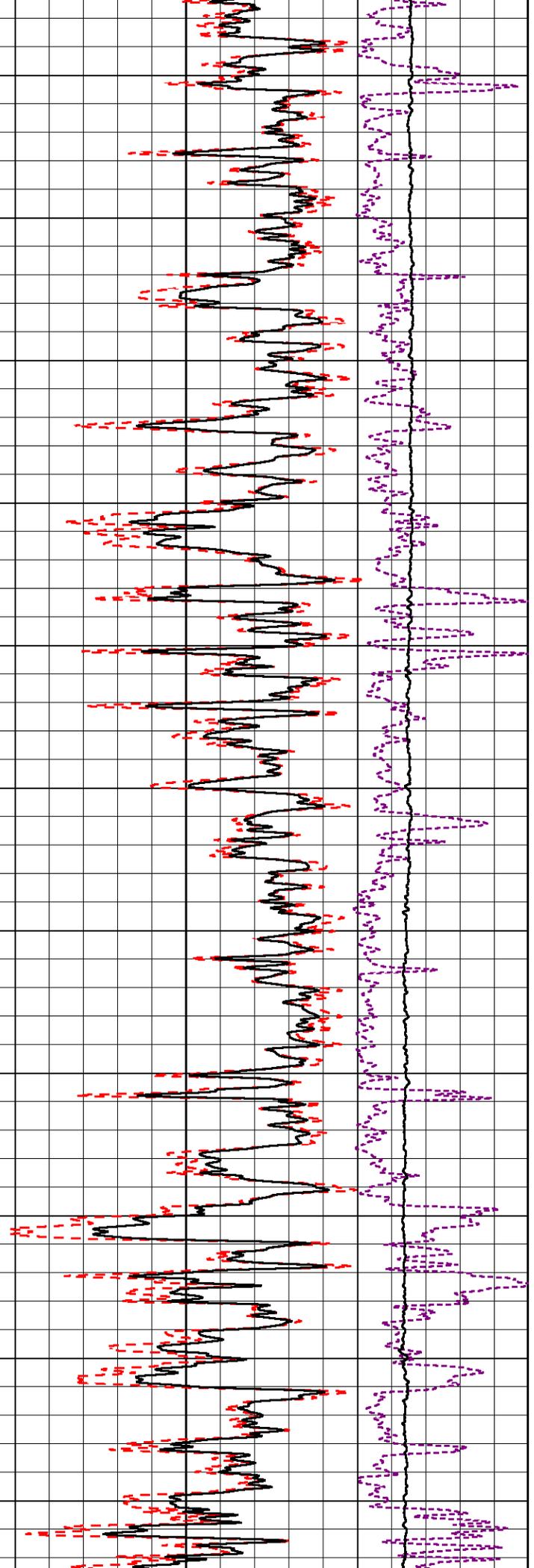
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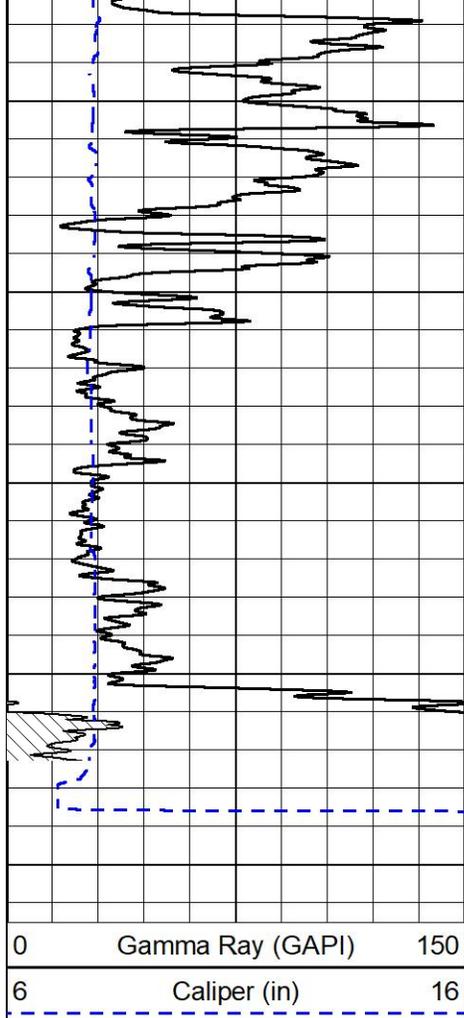
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4500

4550

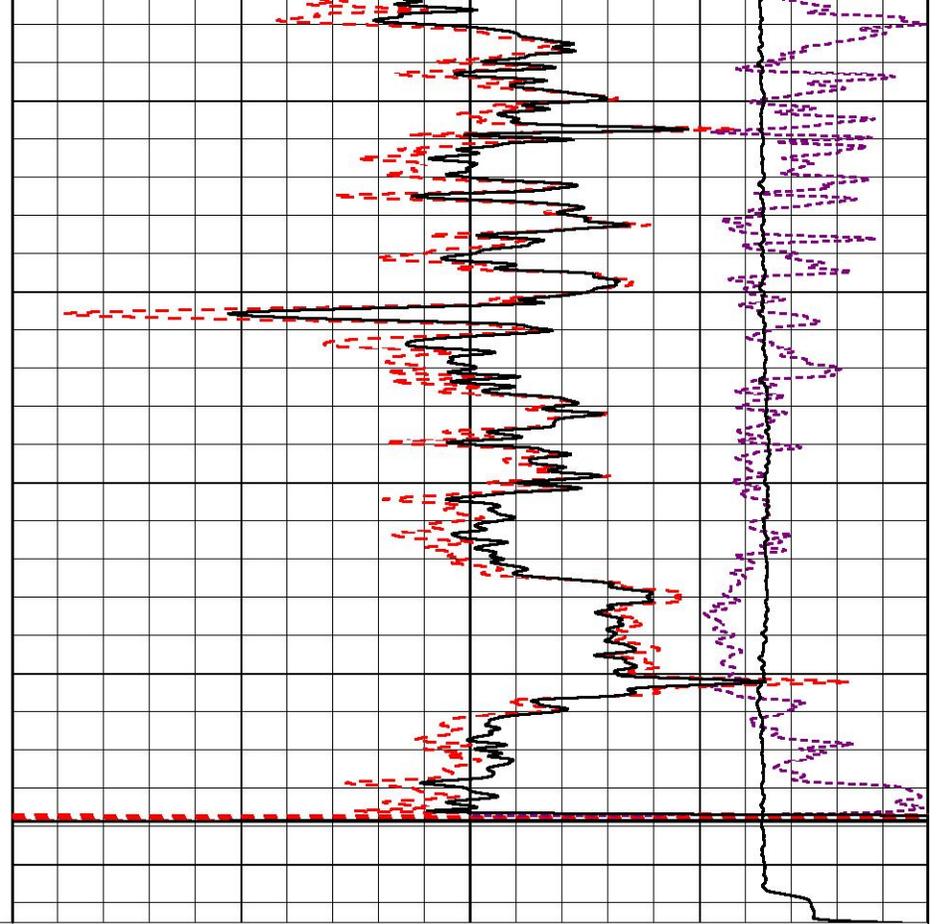
4600





4650
4700
4750
4800
4850

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



30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25



MIDWEST WIRELINE

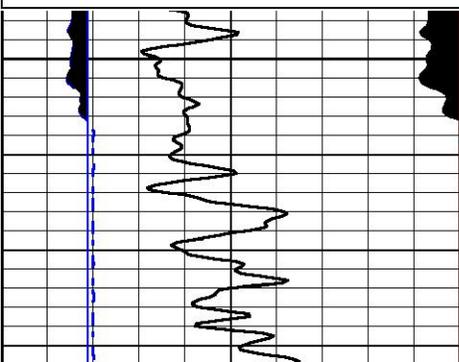
DETAIL SECTION

MAIN PASS

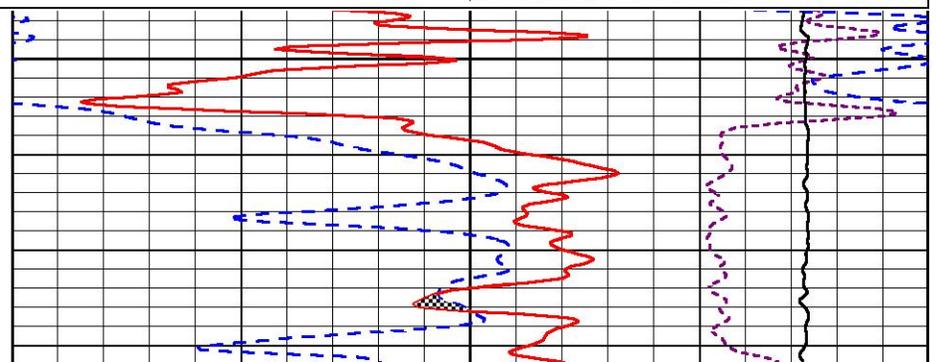
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 Dataset Creation Sun Sep 25 21:14:53 2022
 Charted by Depth in Feet scaled 1:240

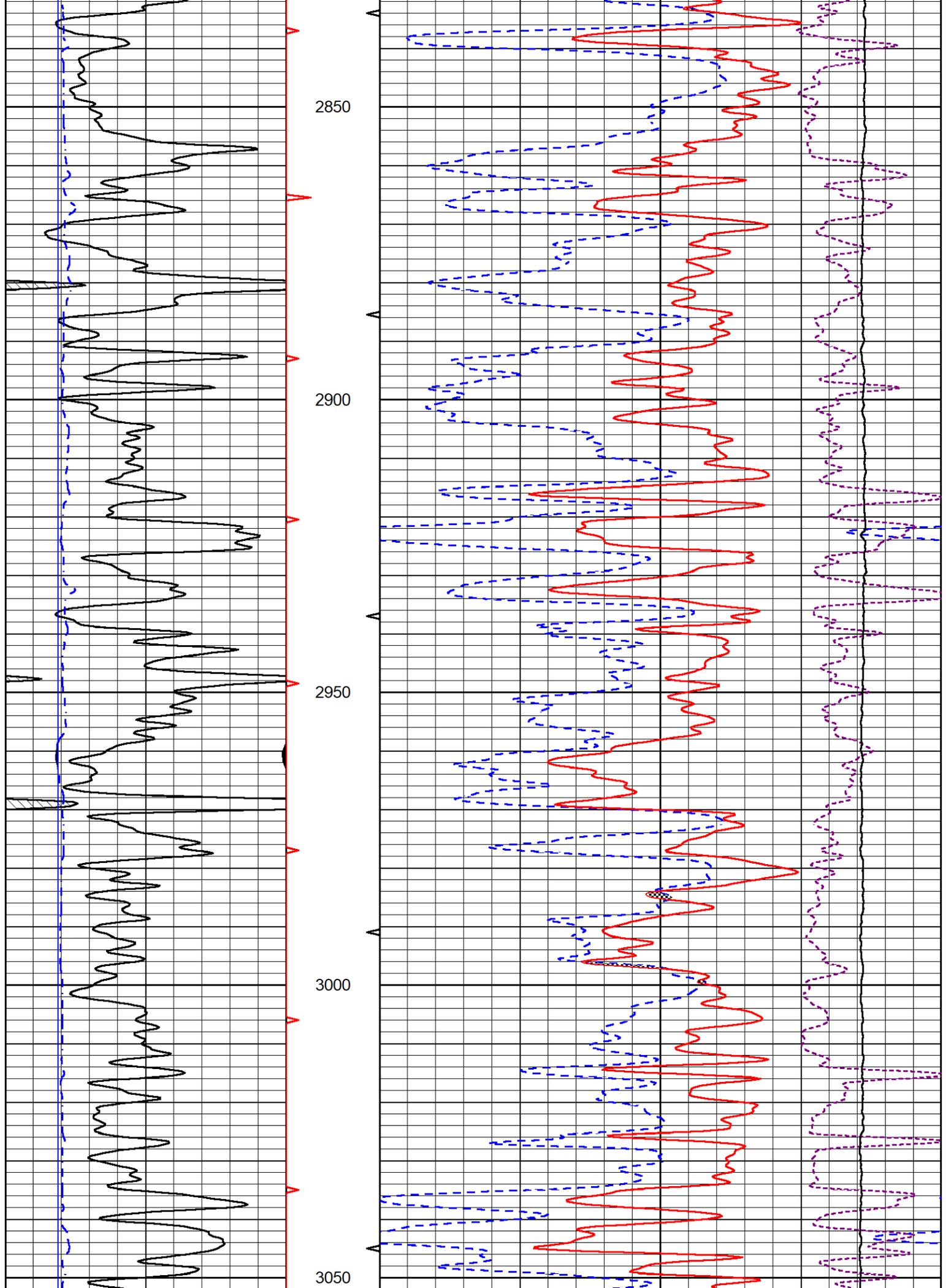
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6	Caliper (in)	16
2.875	DCAL (in)	7.875

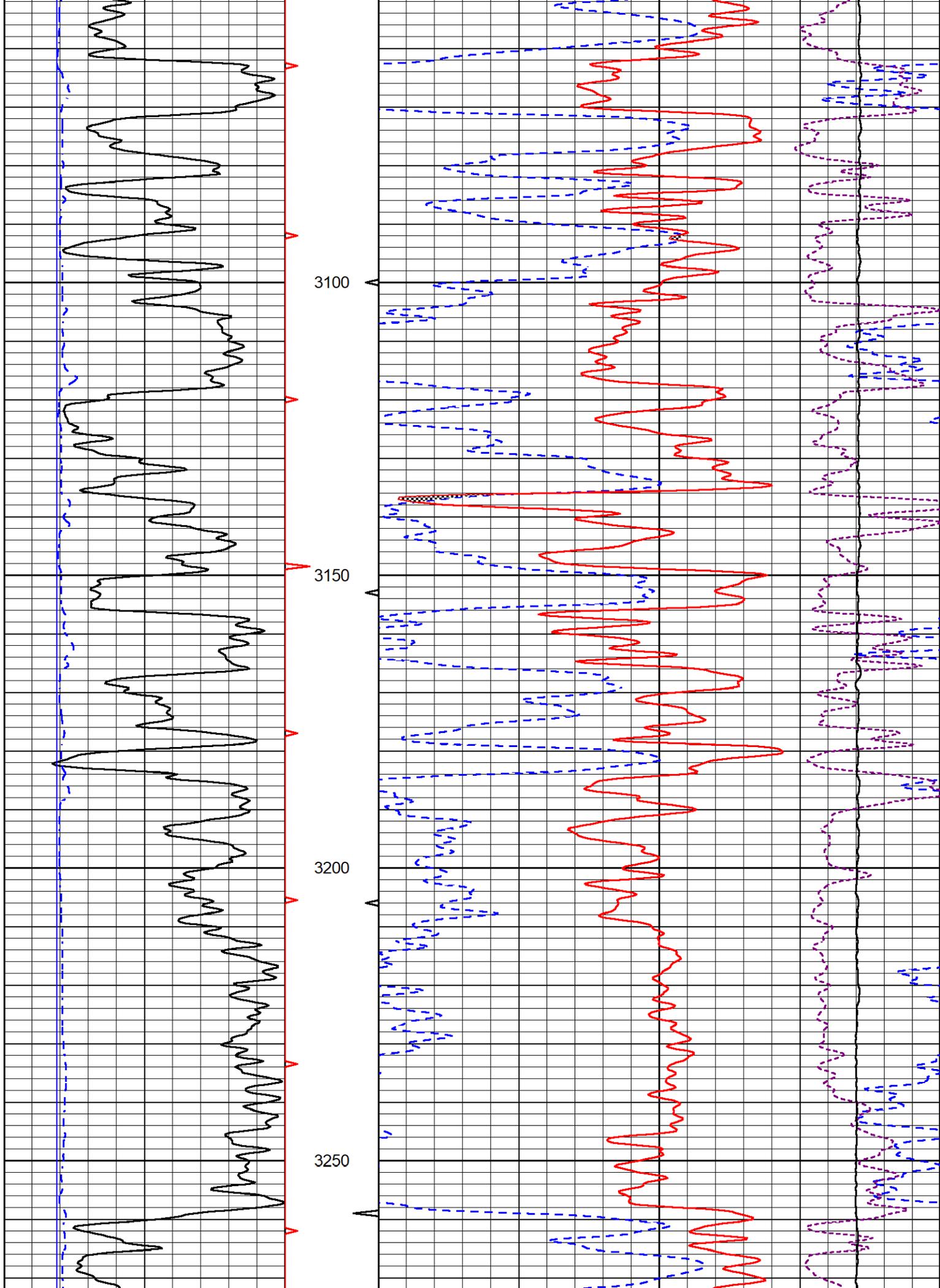
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30	Compensated Density (pu)	-10
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

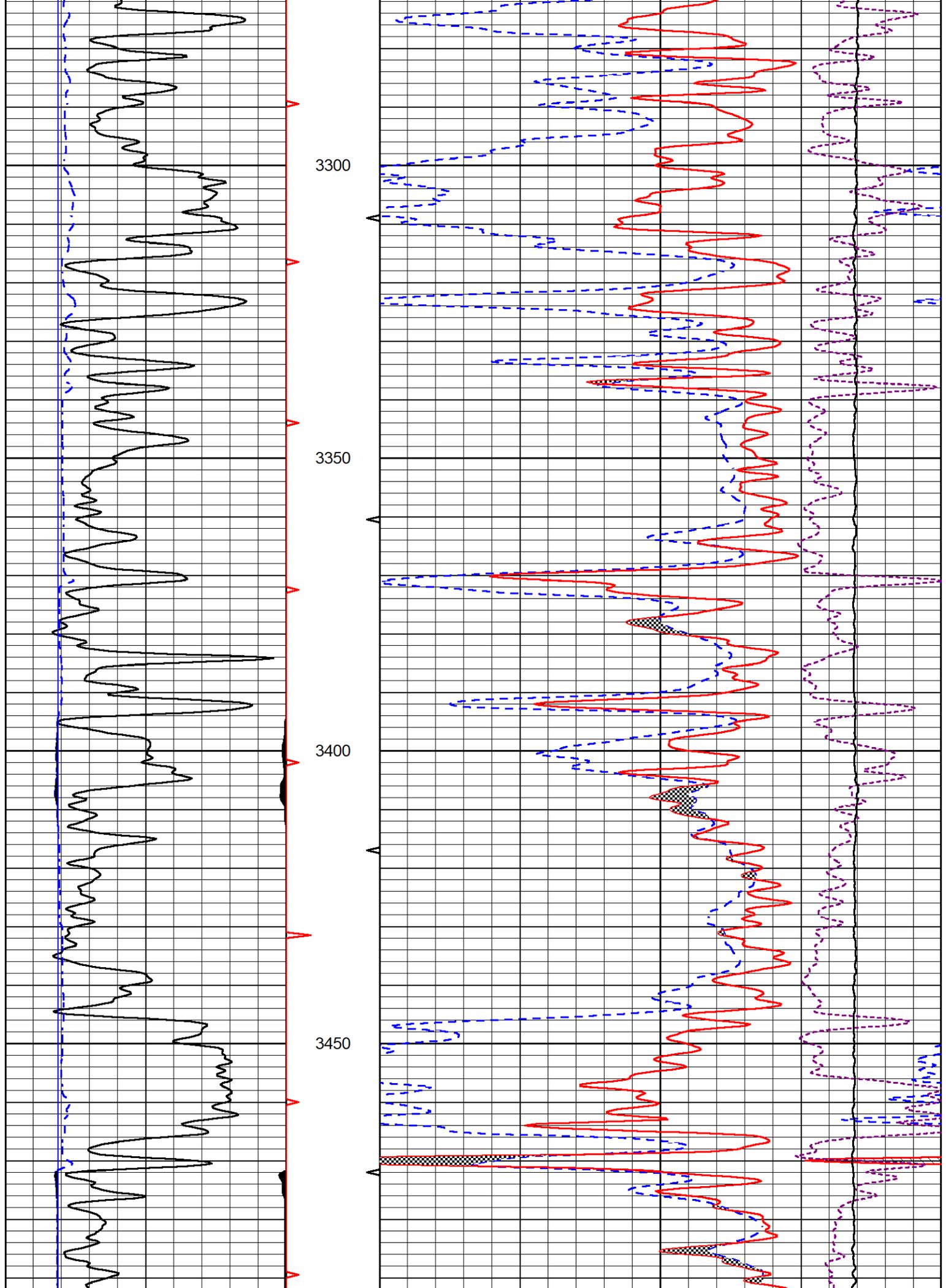


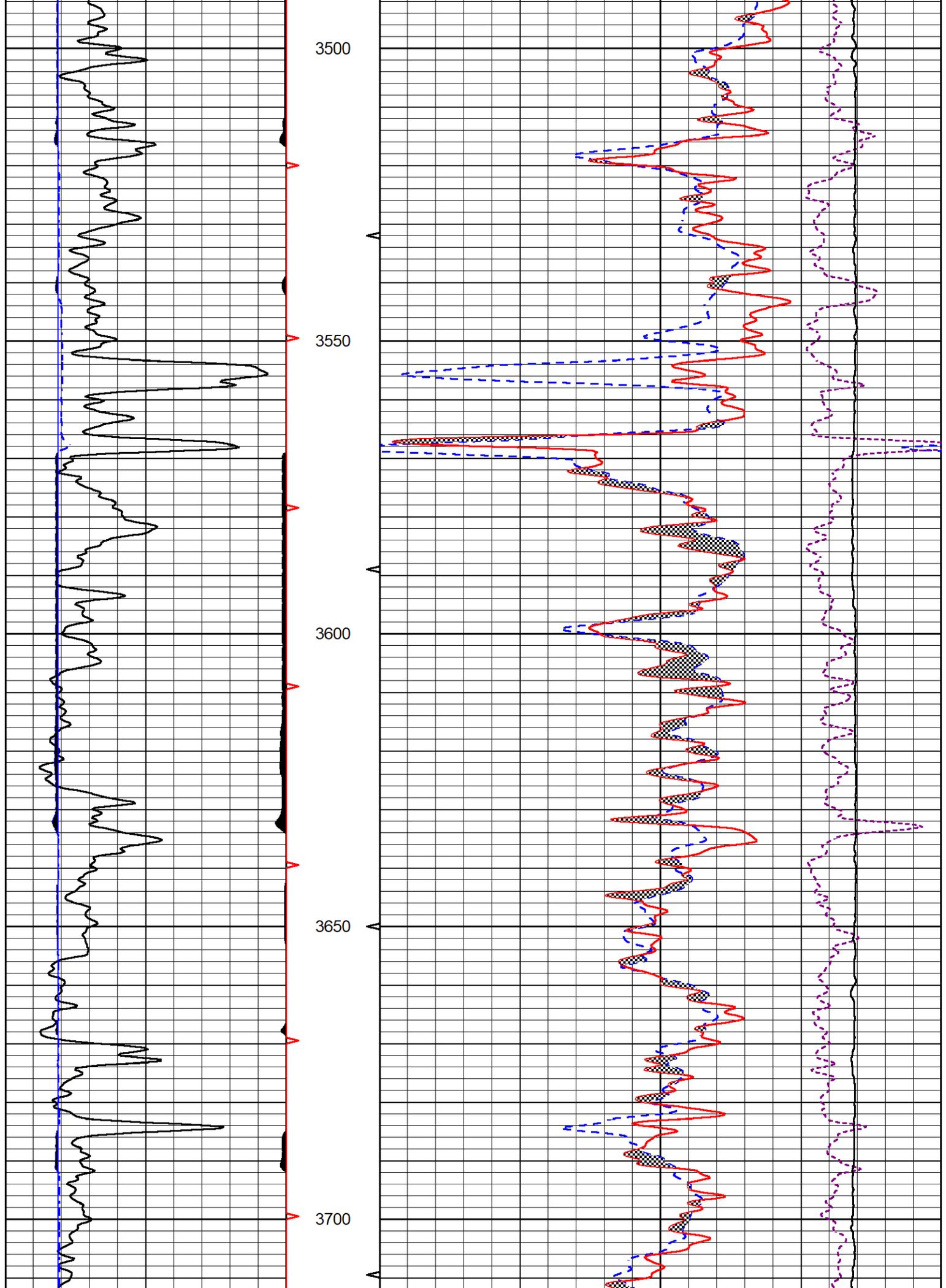
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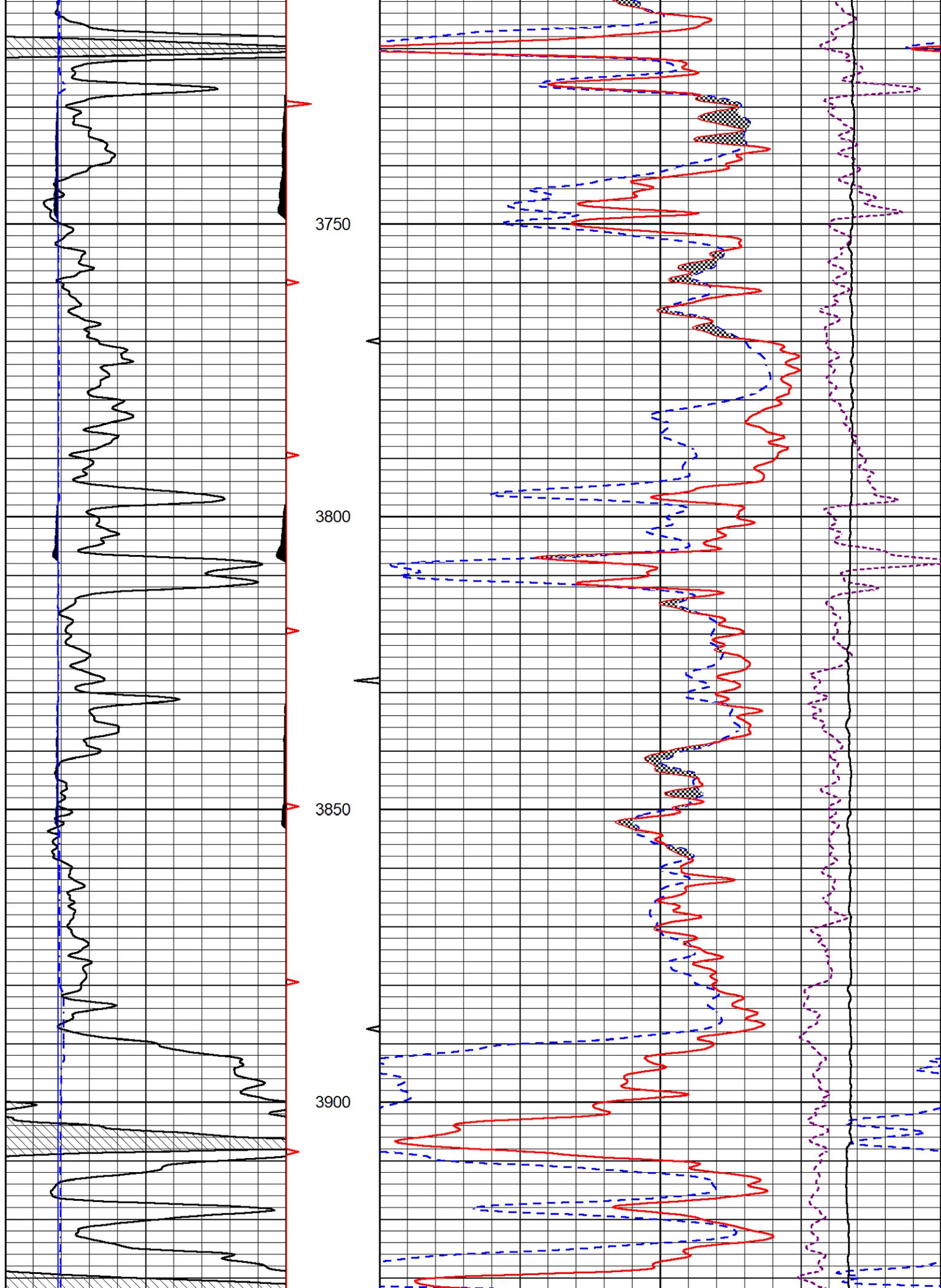


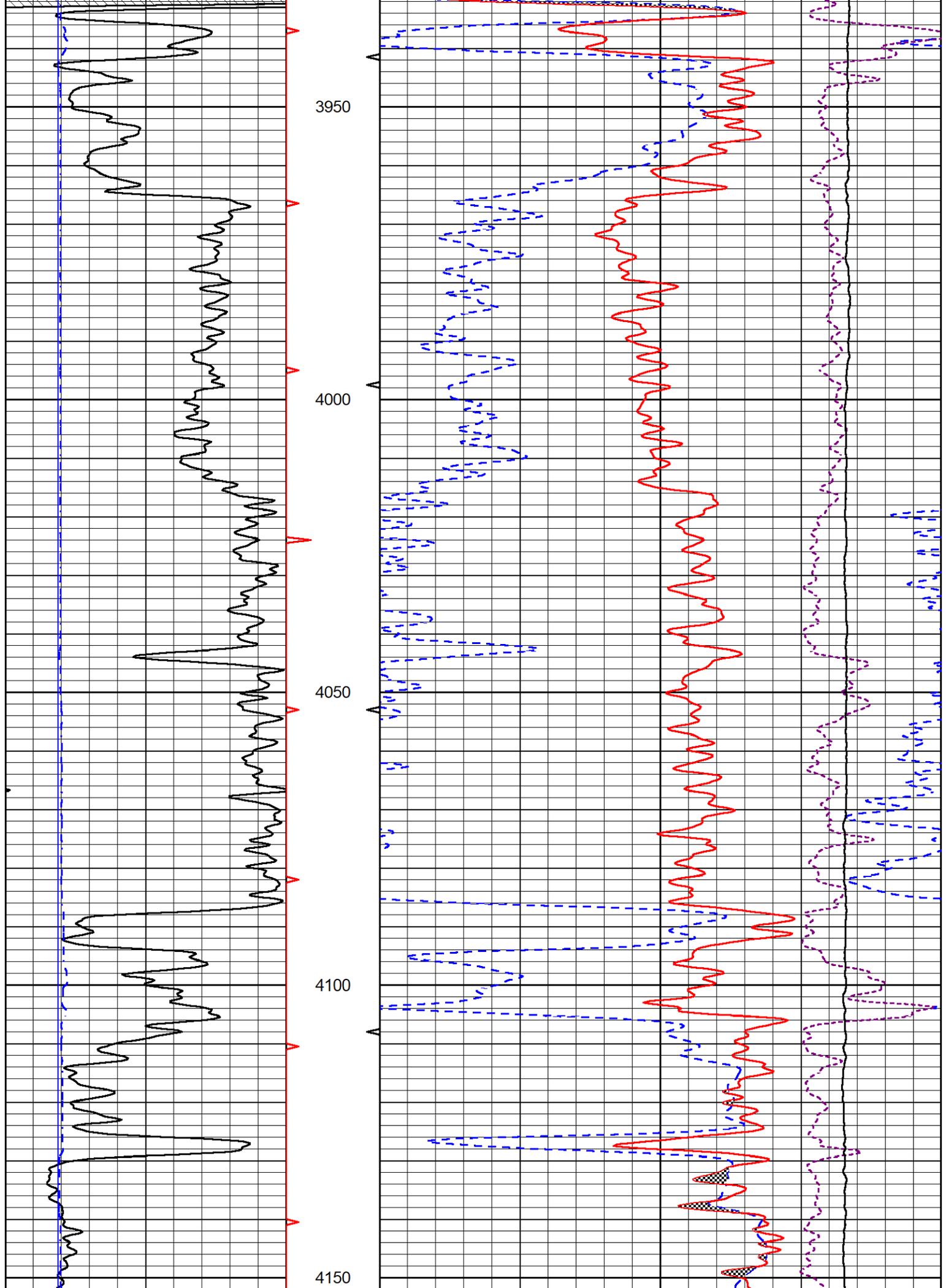


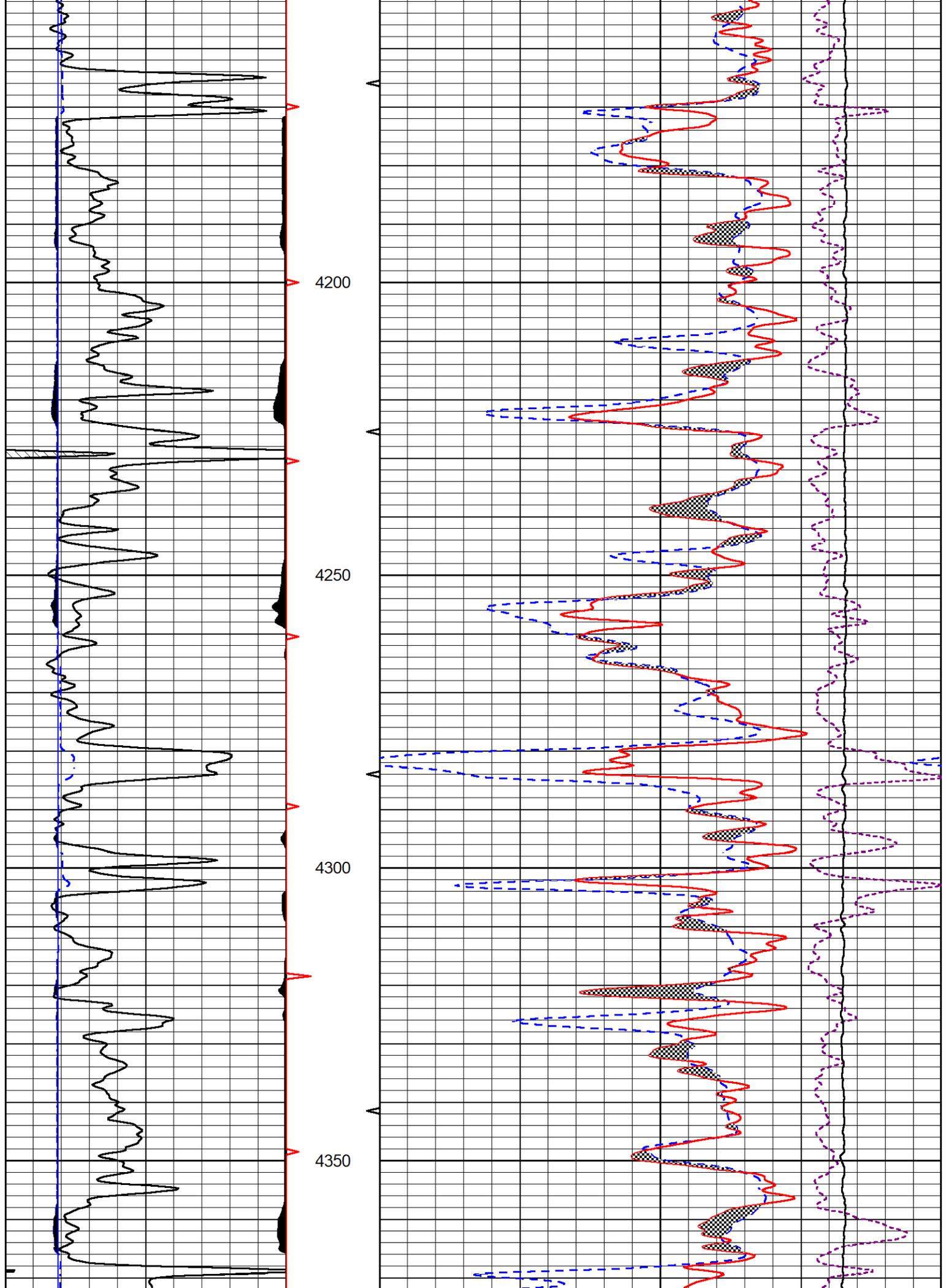


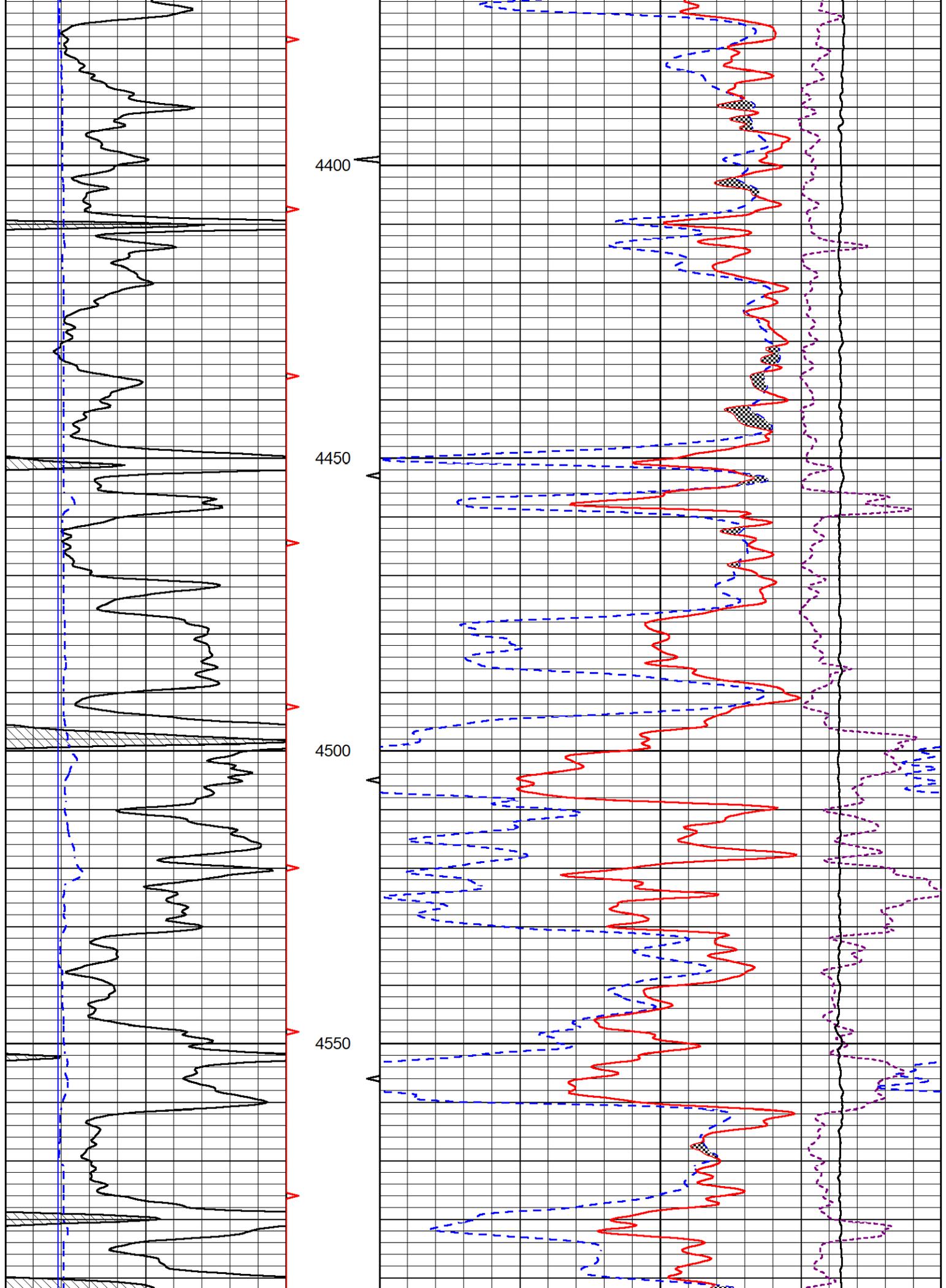


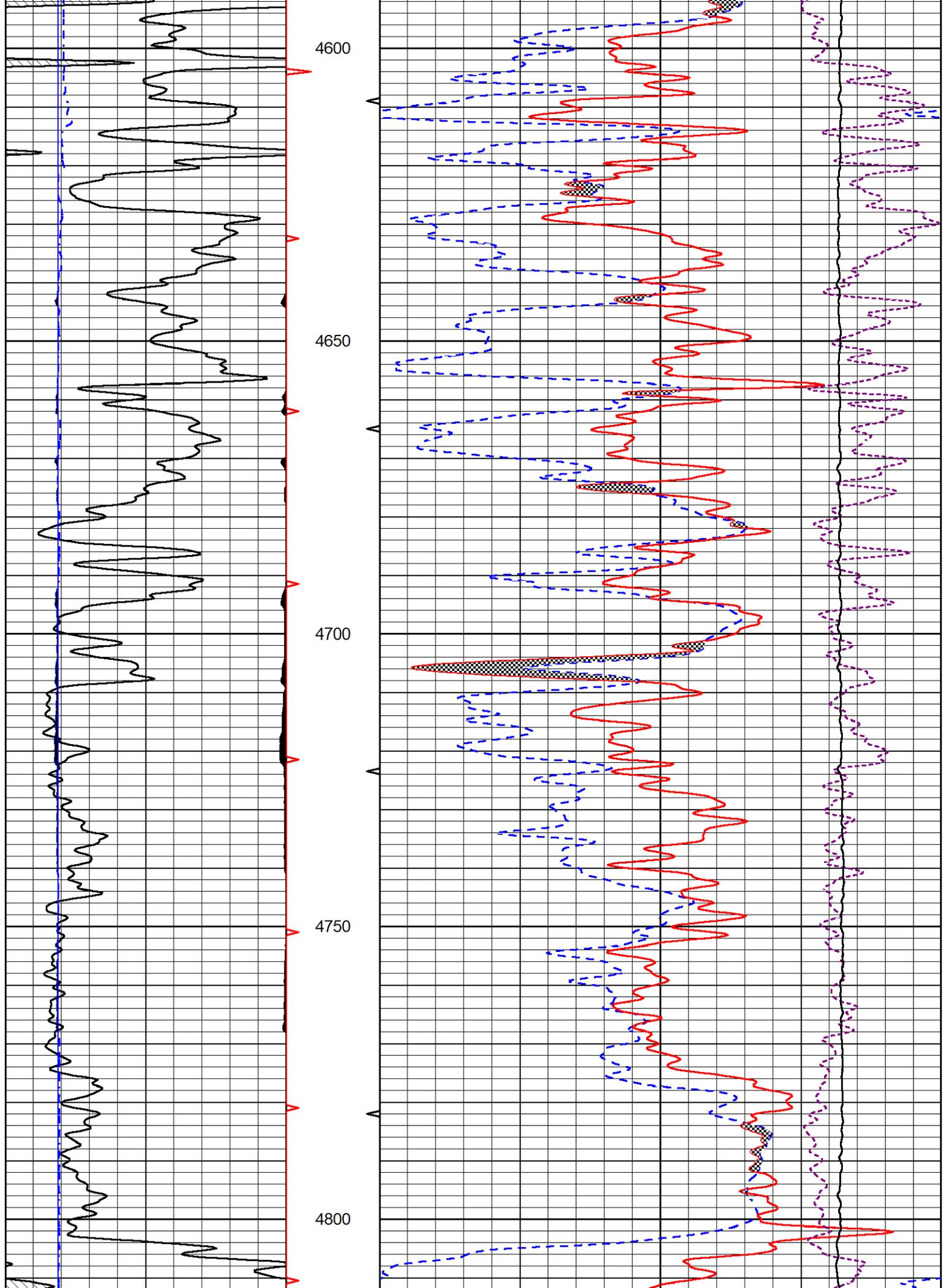


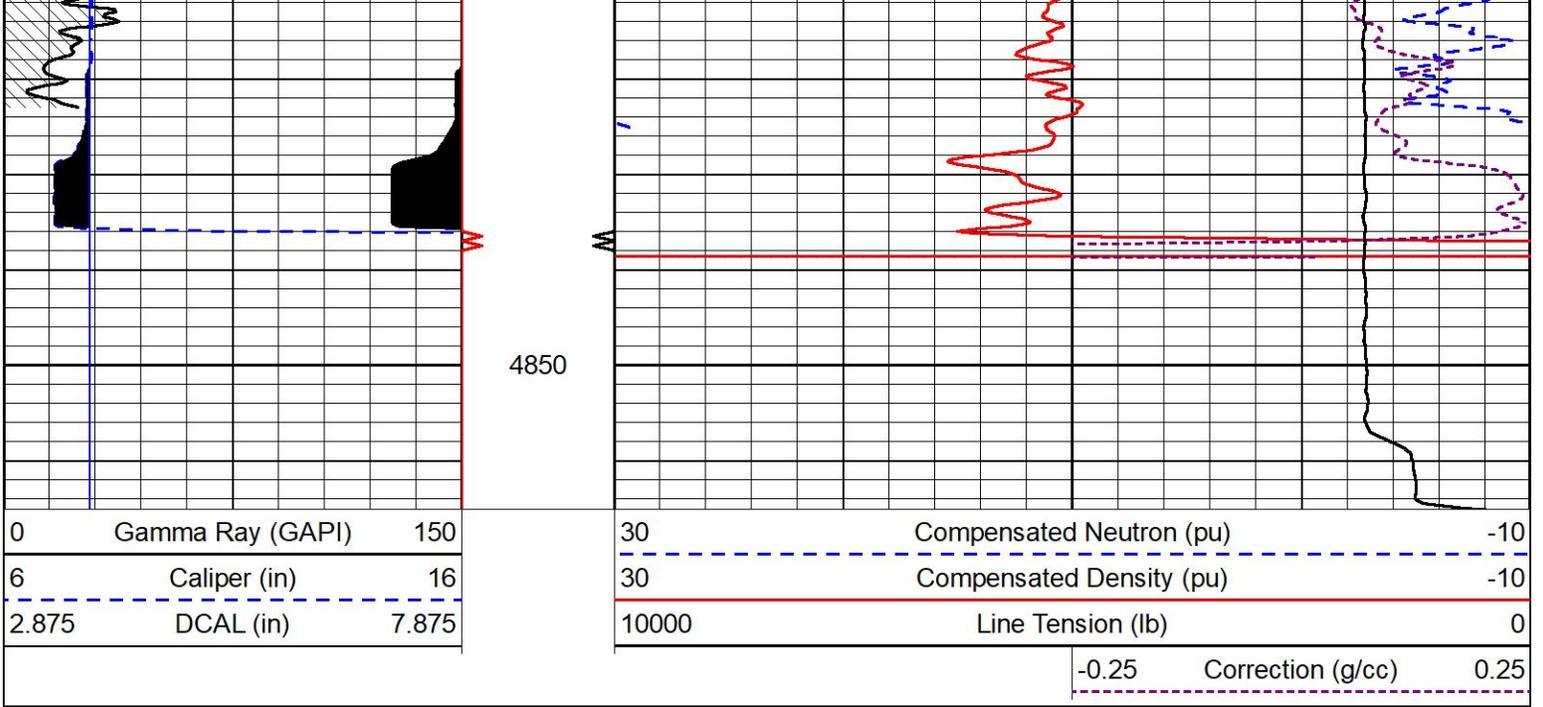










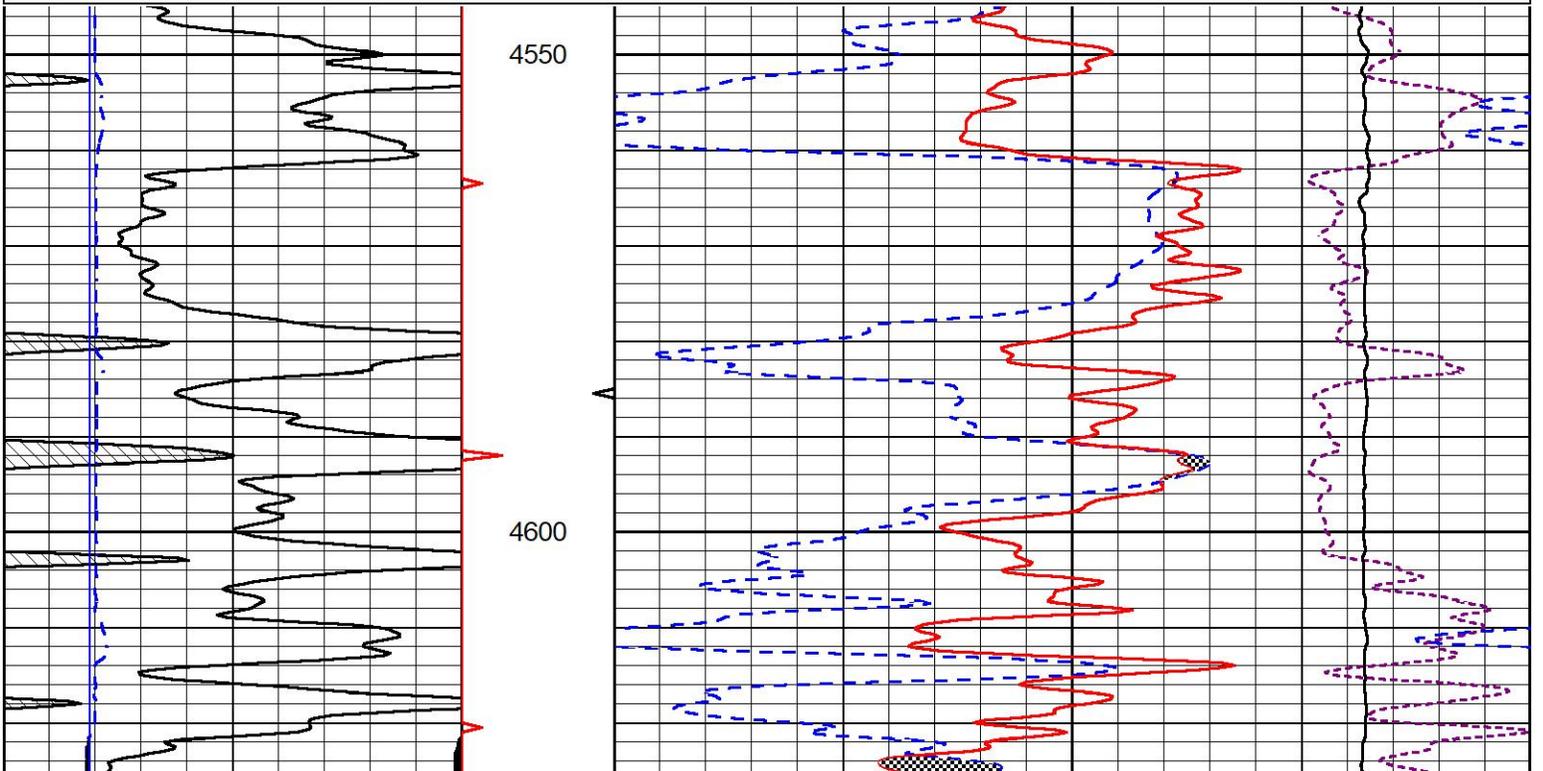
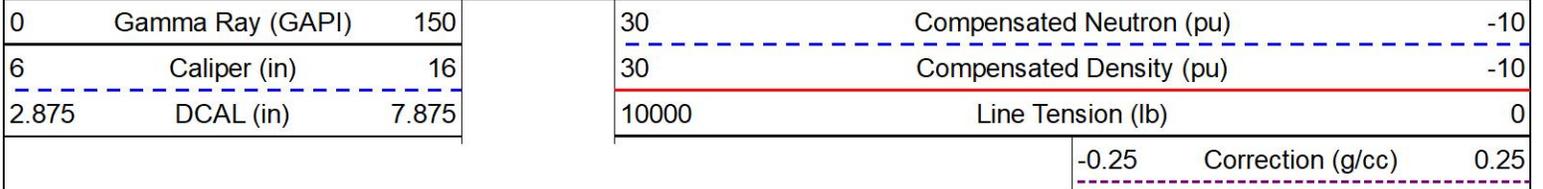


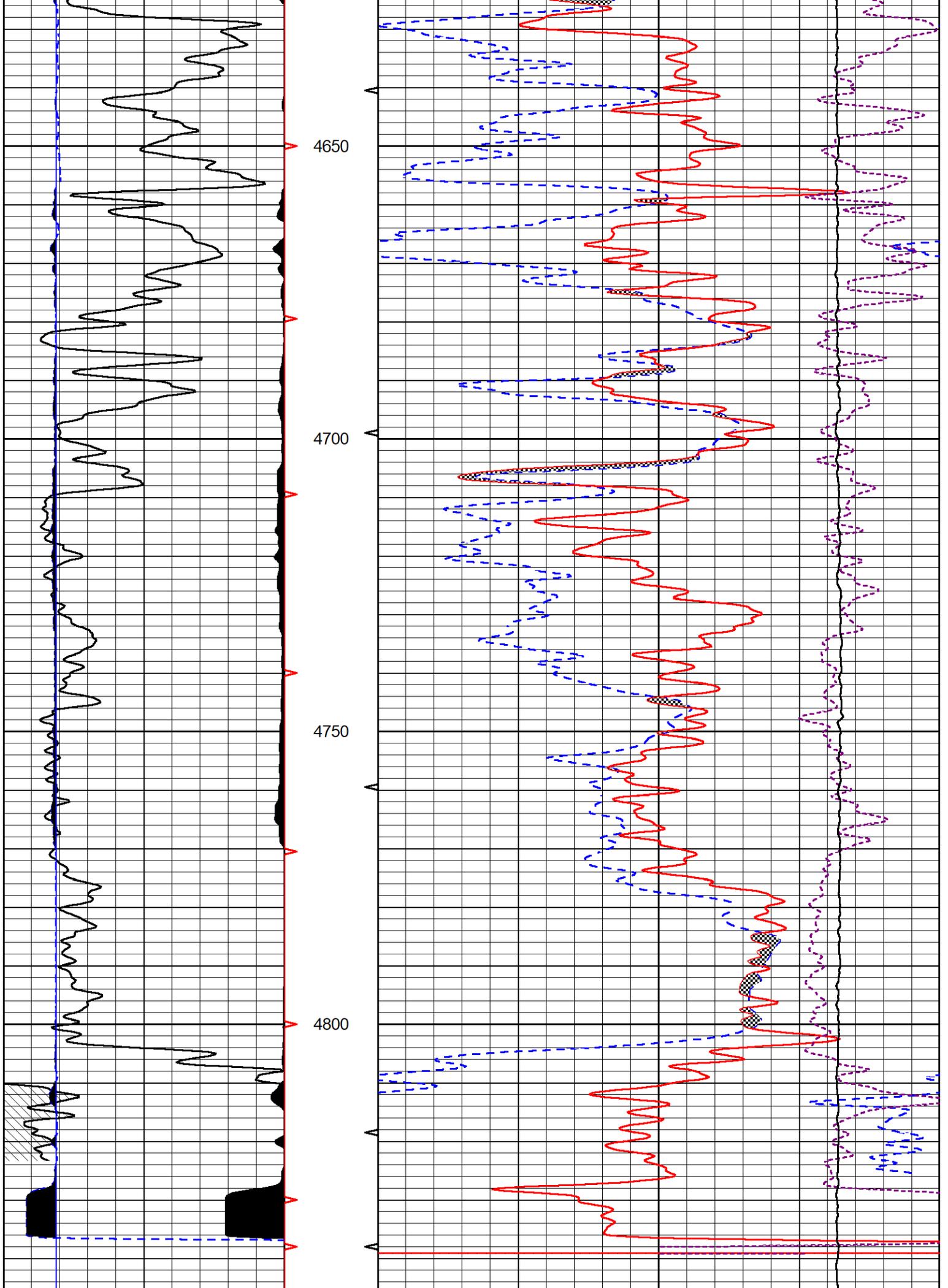
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File griffin_rea 2.db
 Dataset Pathname stkml/pass2.10
 Presentation Format _CNDLS~1
 Dataset Creation Sun Sep 25 20:38:46 2022
 Charted by Depth in Feet scaled 1:240





			4850			
0	Gamma Ray (GAPI)	150	30	Compensated Neutron (pu)	-10	
6	Caliper (in)	16	30	Compensated Density (pu)	-10	
2.875	DCAL (in)	7.875	10000	Line Tension (lb)	0	
				-0.25	Correction (g/cc)	
				0.25		

Calibration Report

Database File griffin_rea 2.db
 Dataset Pathname stkml/pass3.11
 Dataset Creation Sun Sep 25 20:36:22 2022

Dual Induction Calibration Report

Serial-Model: 501 HT-M&W
 Surface Cal Performed: Thu Sep 22 17:20:27 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.455	-37.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.305	-35.000

Microlog Calibration Report

Serial-Model: 402-PSIML
 Performed: Thu Sep 22 17:20:33 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	-1.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	22000.0000	-0.7000
Caliper	1.0052	1.0858	5.0000	16.5000	in	120.0000	-115.8000

Compensated Density Calibration Report

Serial-Model: 307-11-M&W
 Source #: 20762B
 Master Calibration Performed: Sat Aug 27 10:20:16 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3600.52	4768.22	cps
Aluminum	2.670	g/cc	693.98	3106.20	cps
Spine Angle = 75.41			Density/Spine Ratio = 0.538		
	Size		Reading		
Small Ring	6.00	in	1.16		
Large Ring	18.00	in	1.01		

Compensated Neutron Calibration Report

Serial Number: 207-MW
 Tool Model: M&W

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

PRE-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	
3)	Short Space	cps		
	Long Space	cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space	cps		
	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number: 106
 Tool Model: M&W
 Performed: Fri Dec 3 15:10:46 2021

Calibrator Value: 500.0 GAPI

Background Reading: 24.0 cps
 Calibrator Reading: 637.0 cps

Sensitivity: 0.5500 GAPI/cps



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