



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company American Warrior, Inc.
Well Hicks A #2-24
Field Patriot
County Finney State Kansas

Location: API #: 15-055-22549-00-00
2460 FNL & 1881 FWL
SEC 24 TWP 25S RGE 32W
Permanent Datum Ground Level Elevation 2883
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL
MEL
K.B. 2894
D.F.
G.L. 2883

Company American Warrior, Inc.
Well Hicks A #2-24
Field Patriot
County Finney
State Kansas

Date	2/12/2022
Run Number	One
Type Log	CNL/CDL
Depth Driller	5100
Depth Logger	5100
Bottom Logged Interval	5071
Top Logged Interval	2500
Type Fluid In Hole	Chemical
Salinity, PPM CL	2500
Density	9.4
Level	Full
Max. Rec. Temp. F	127
Operating Rig Time	3 Hours
Equipment -- Location	P-108 HAYS
Recorded By	J. Henrickson
Witnessed By	Kevin Timson

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	0	1619	8.625	24	0	1619
Two	7.875	1619	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.

Garden City Kansas
5 South to Anney Sheer, 5 East,
North Into

Log Measured From: Kelly Bushing 11 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: Kevin Timson
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 120	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 440	degF 50	Off	ft 5100

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
ML-PSI STKBL ML (402)			ML-PSI STKBL ML (402)	7.58	4.00	65.00
MCAL MI MN	19.58 19.58 19.58					
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00

CILM

4.50

SP

0.20

Dataset: american_warrior_hicks_a_2_24.db: field/well/stackml/pass3.1
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in



MIDWEST WIRELINE

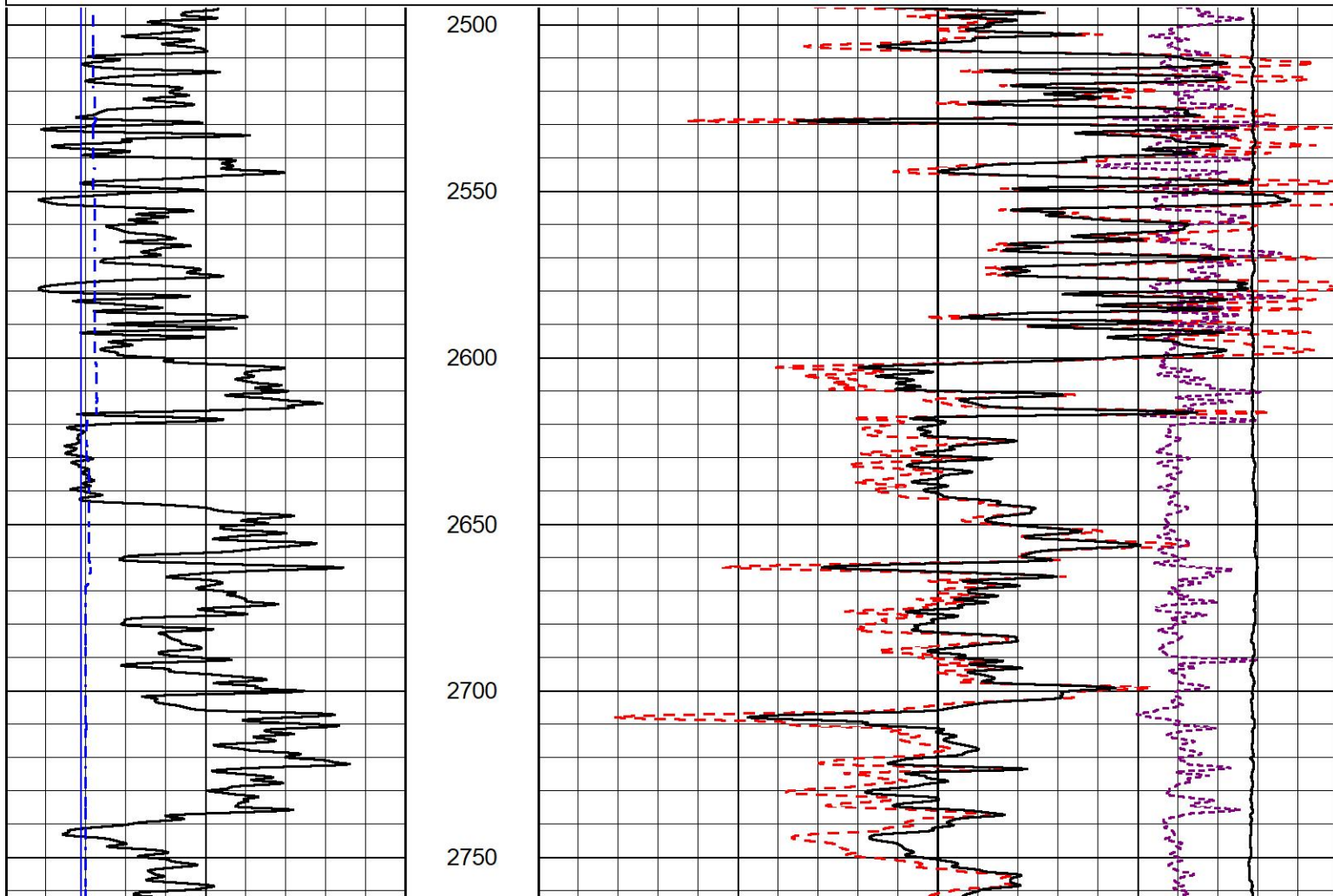
2" SCALE BULK DENSITY

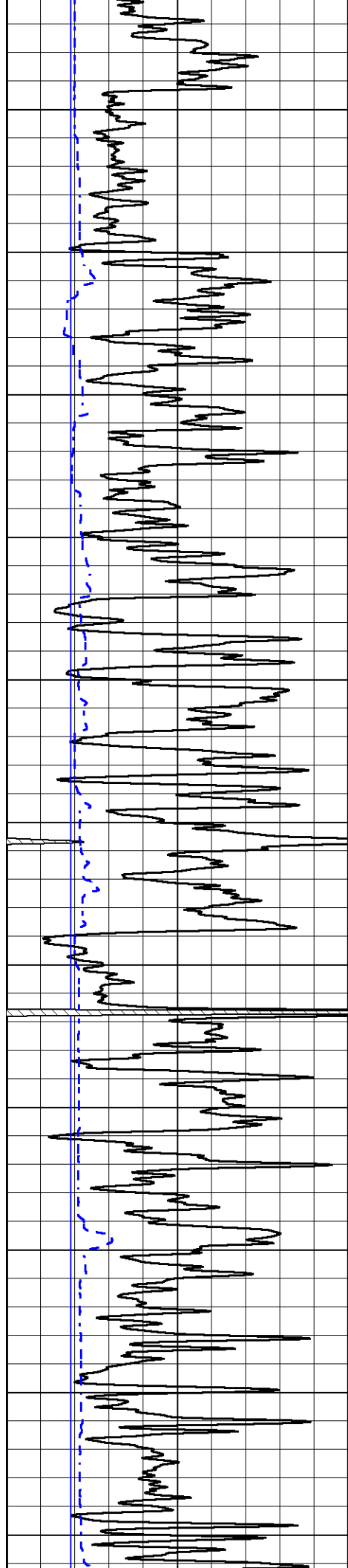
MAIN PASS

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 Dataset Pathname stackml/pass3.1
 Presentation Format _cdl
 Dataset Creation Sun Feb 13 01:03:13 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





2800

2850

2900

2950

3000

3050

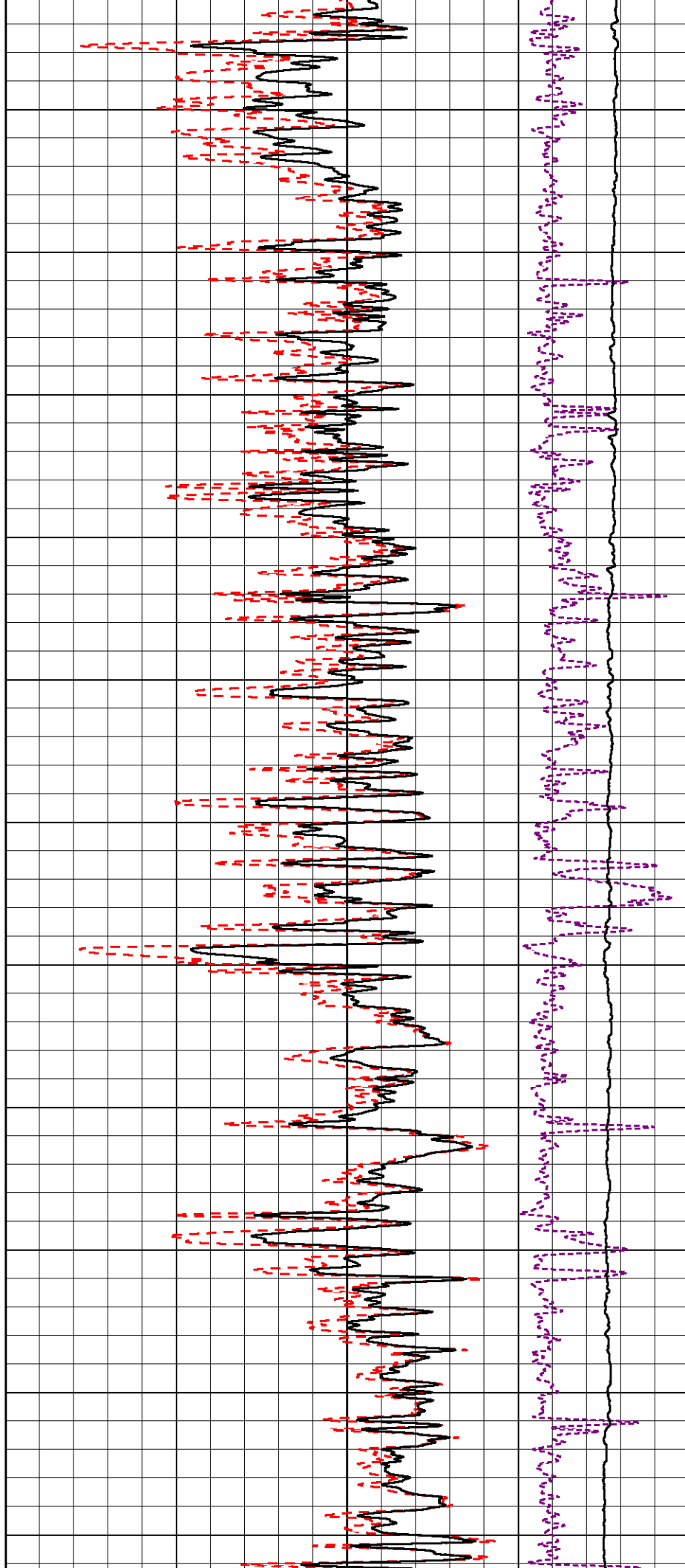
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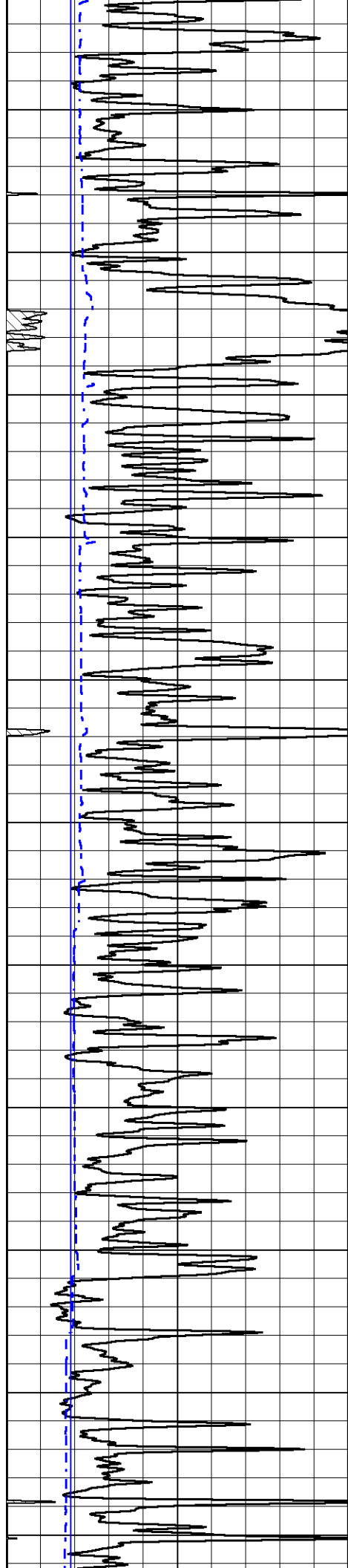
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3200

3250

3300





3350

3400

3450

3500

3550

3600

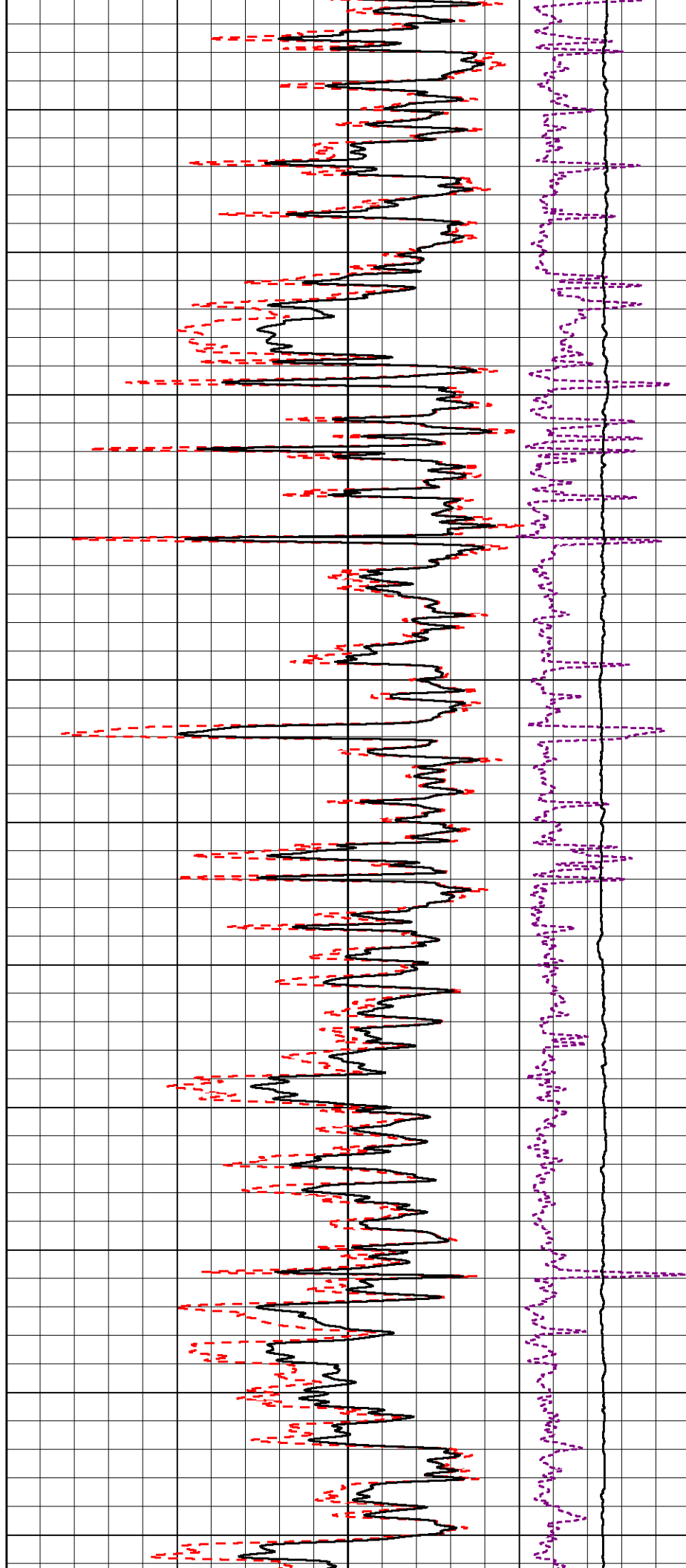
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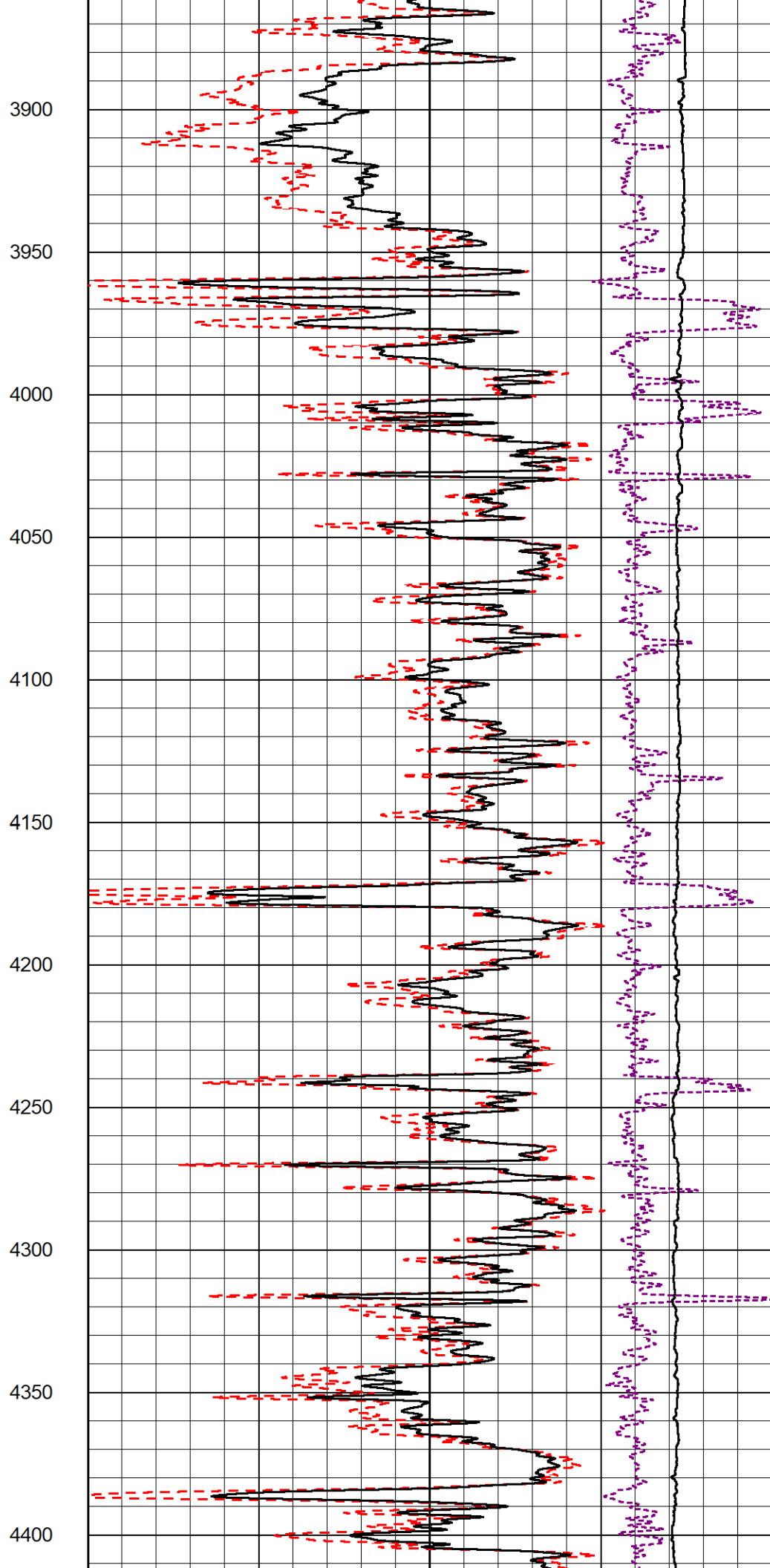
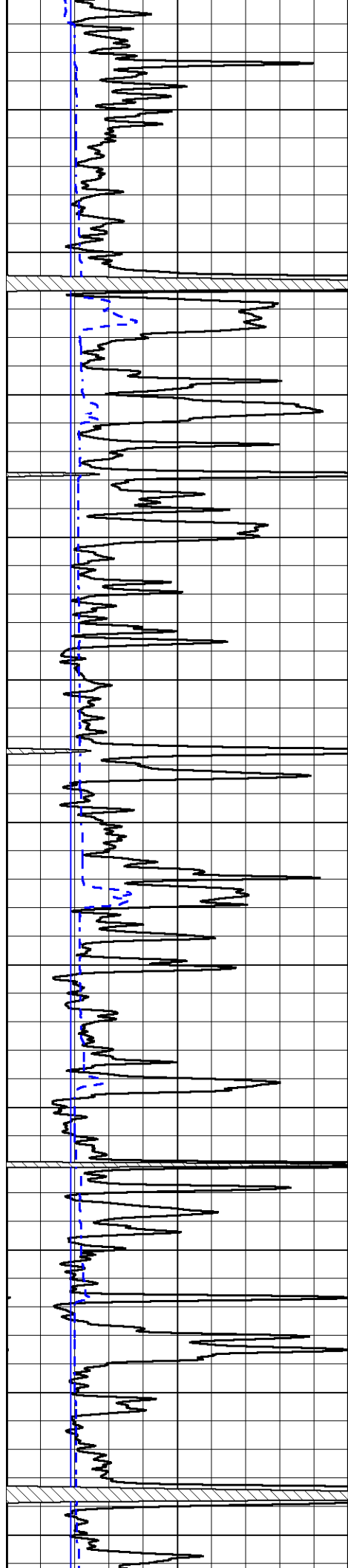
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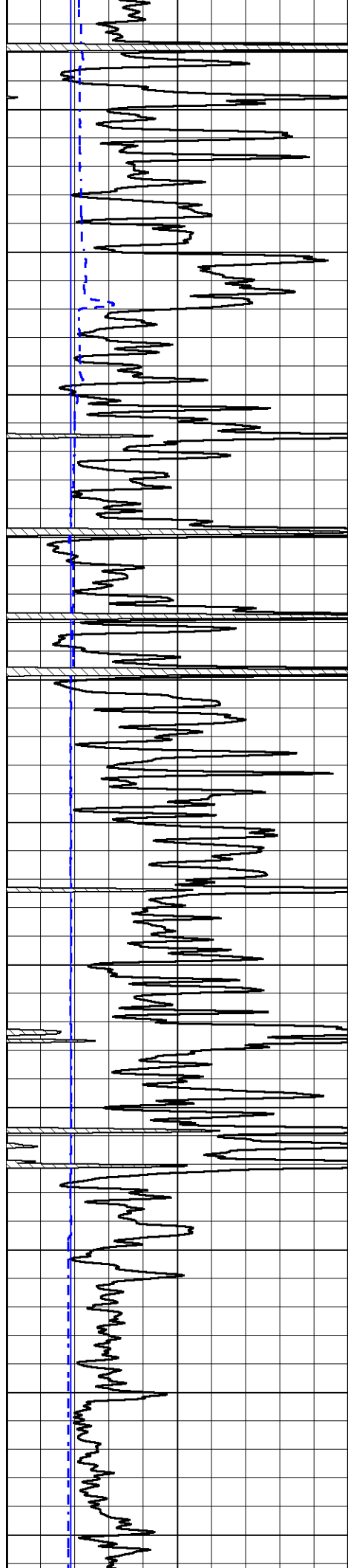
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3800

3850







4450

4500

4550

4600

4650

4700

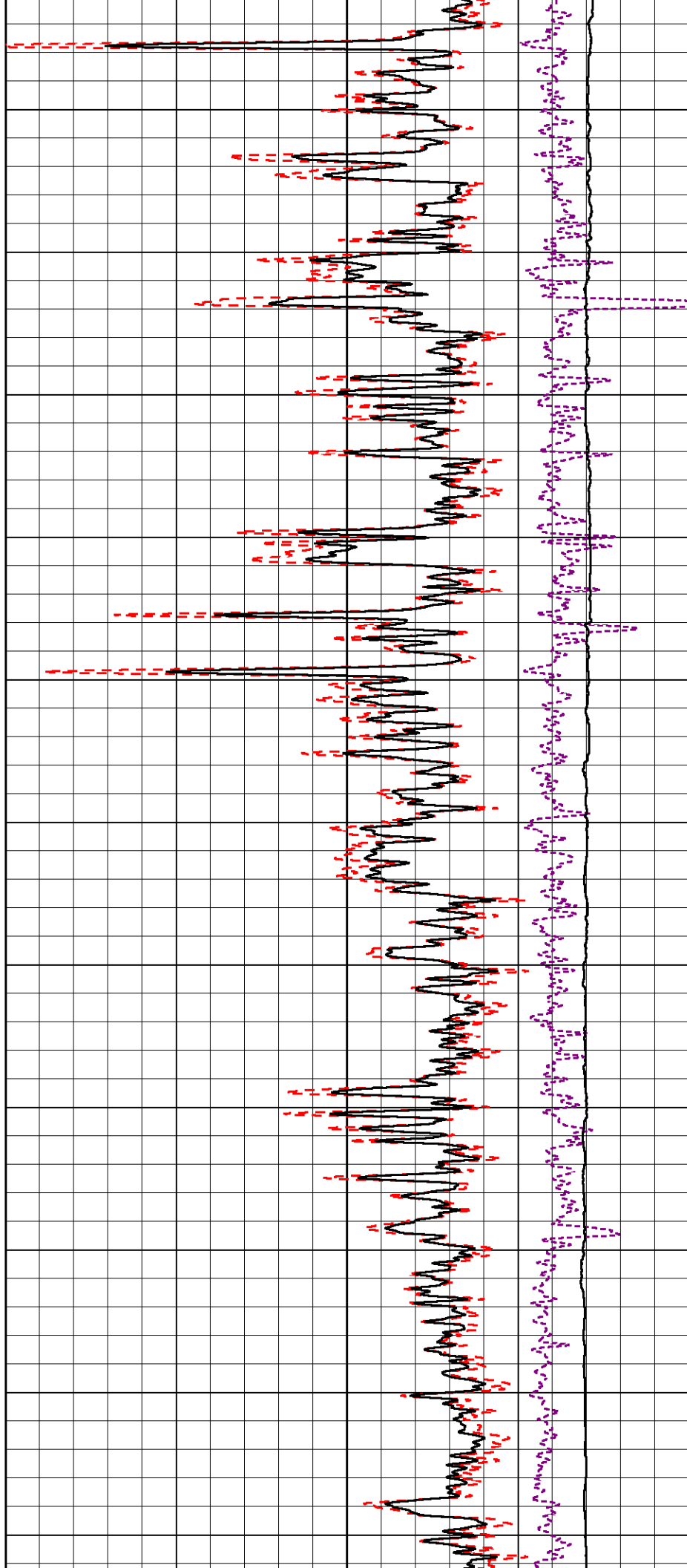
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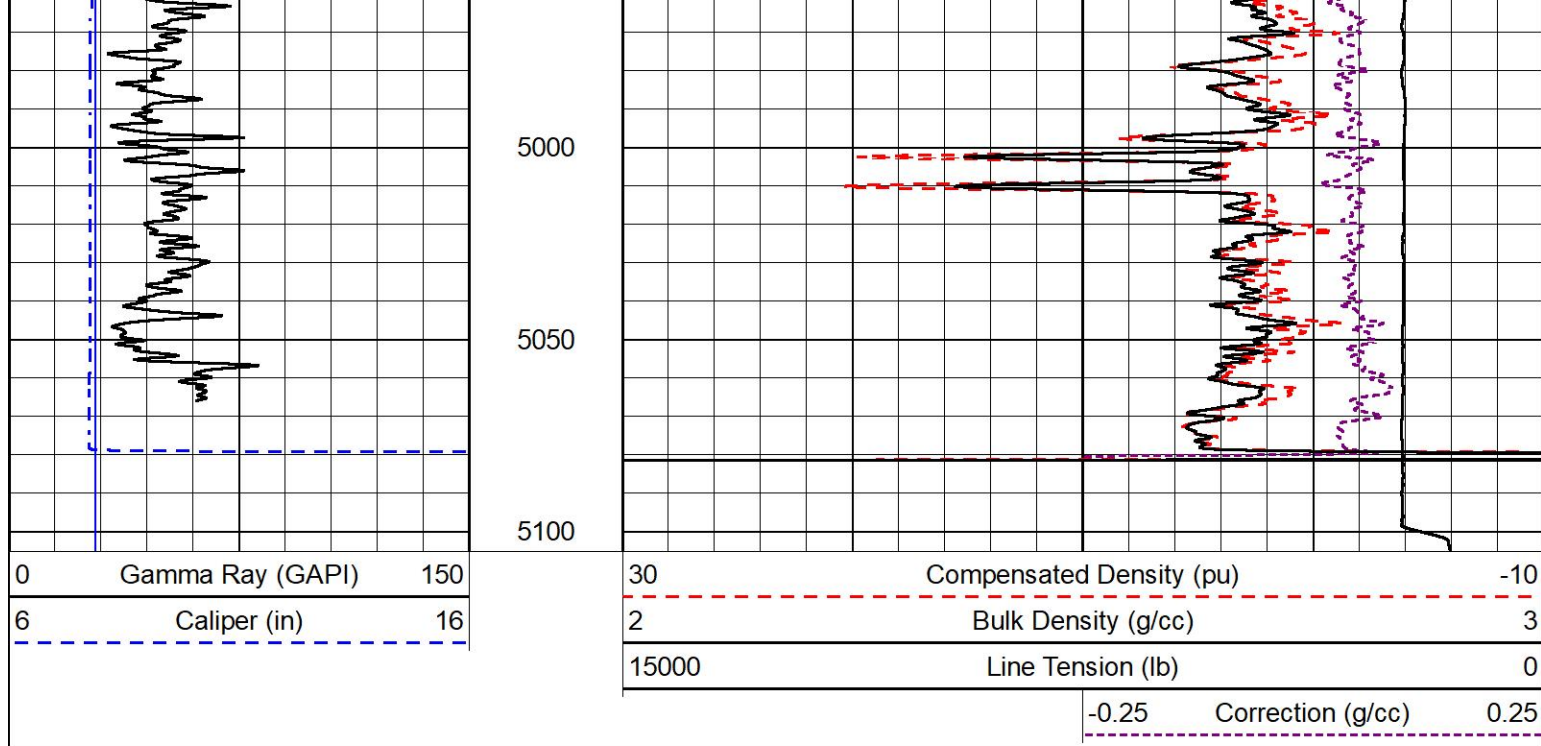
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4950



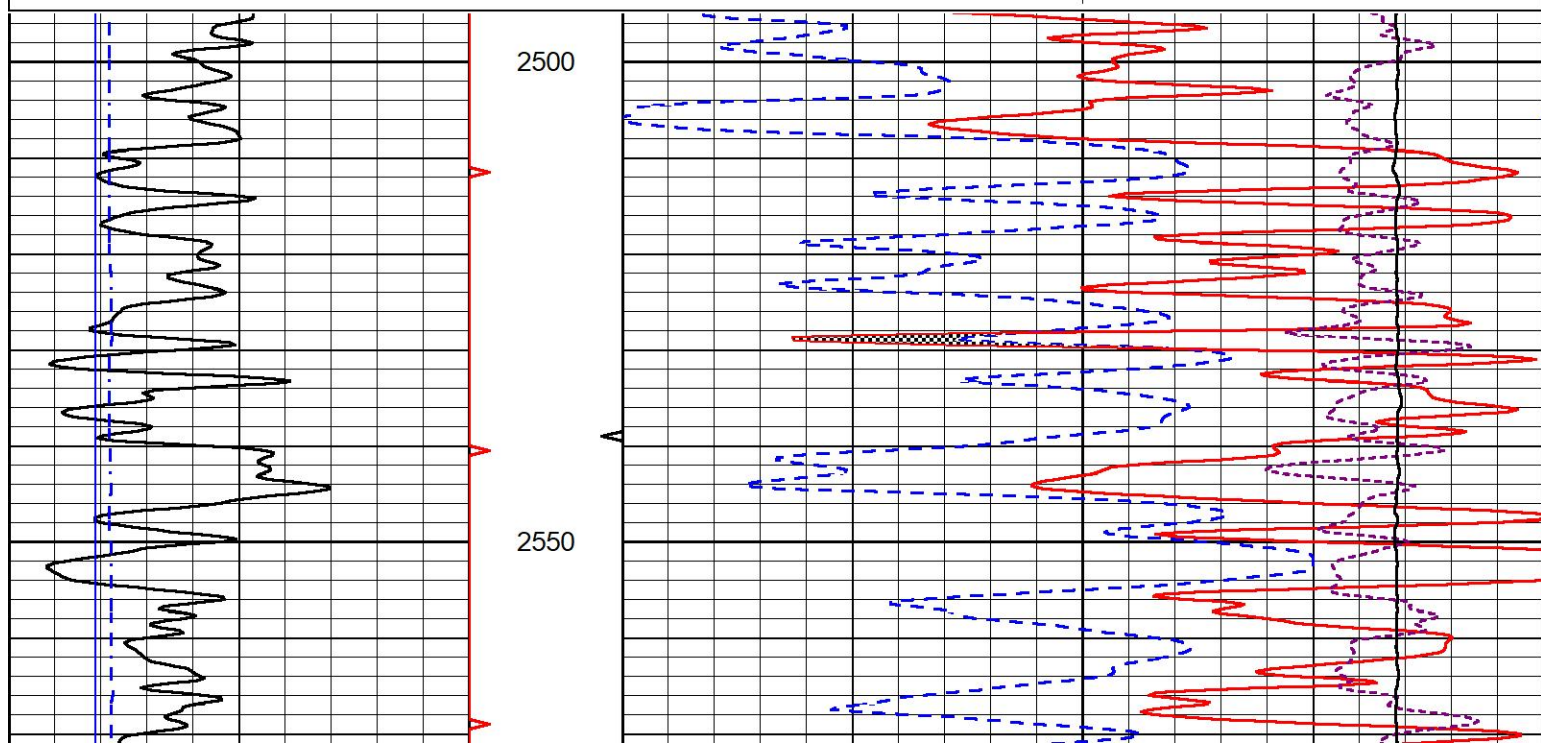
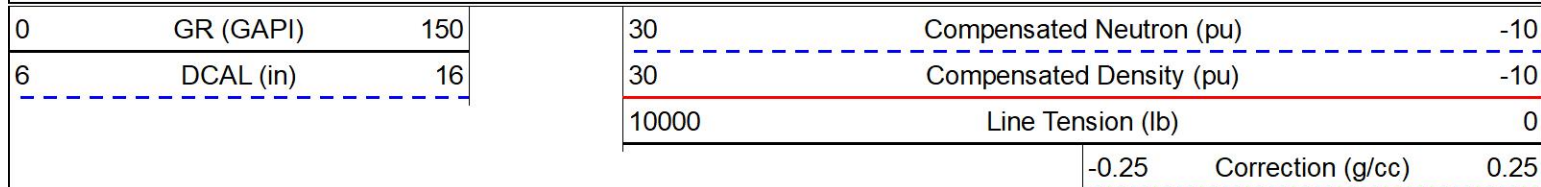


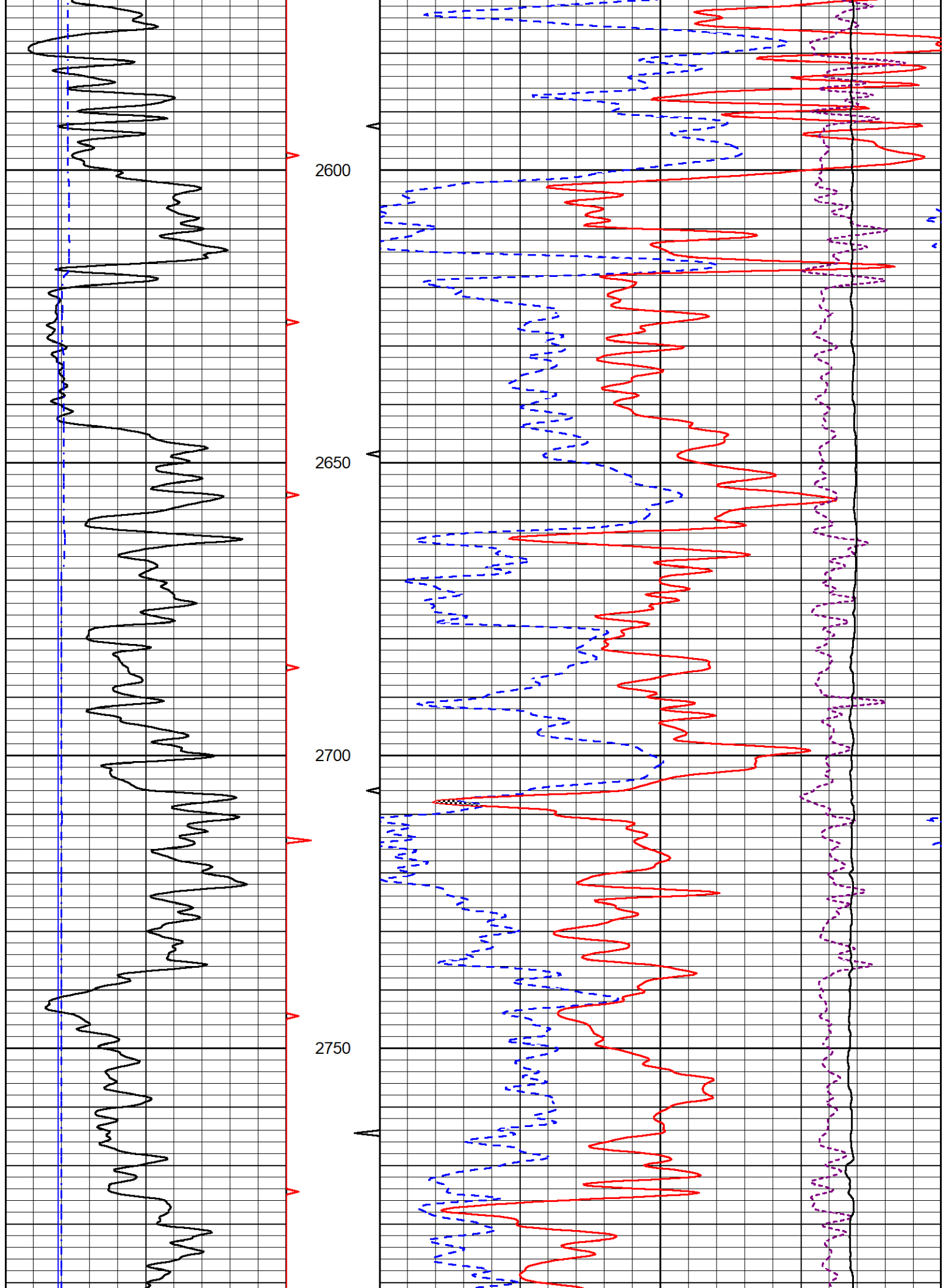
MIDWEST WIRELINE

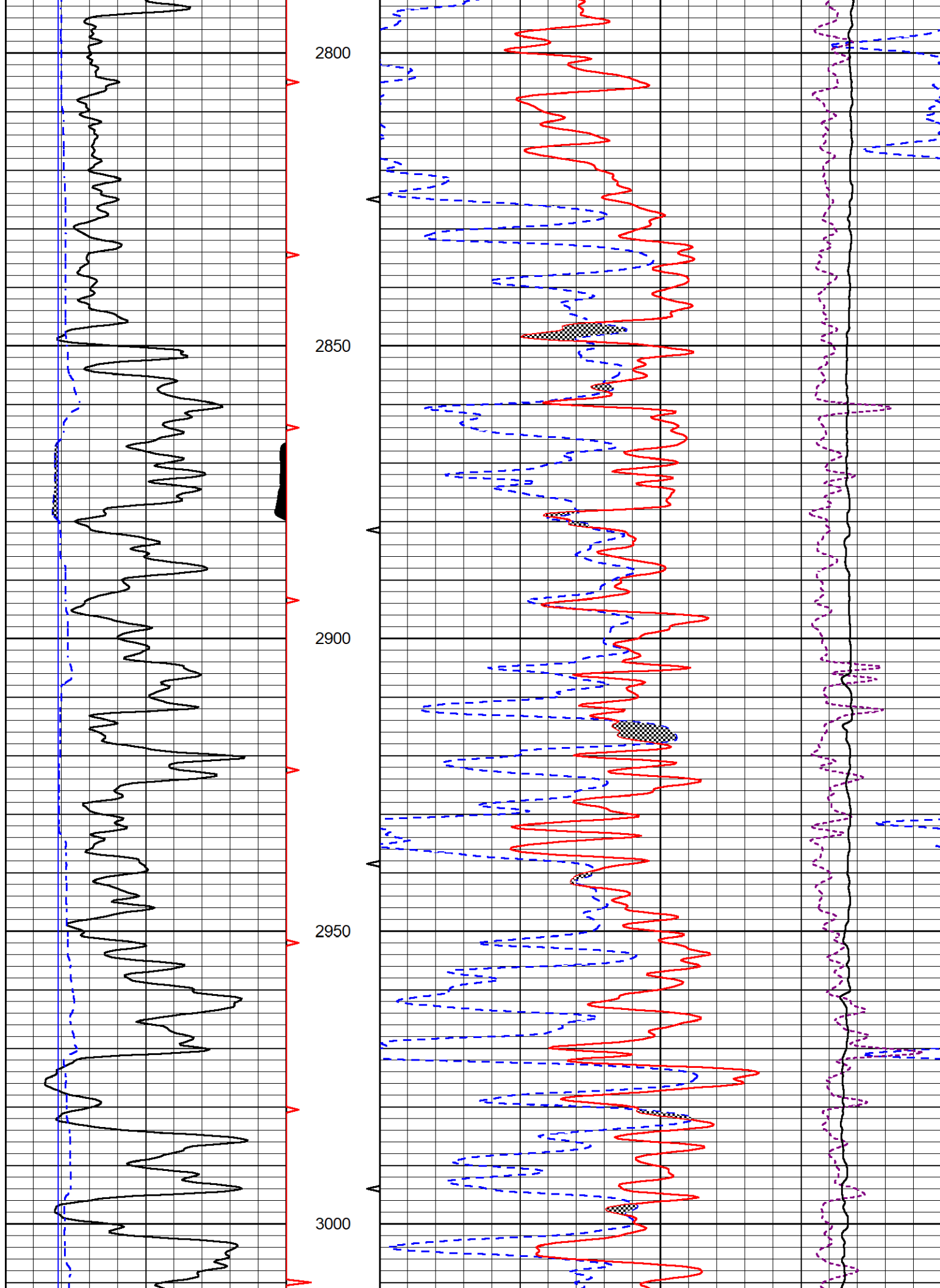
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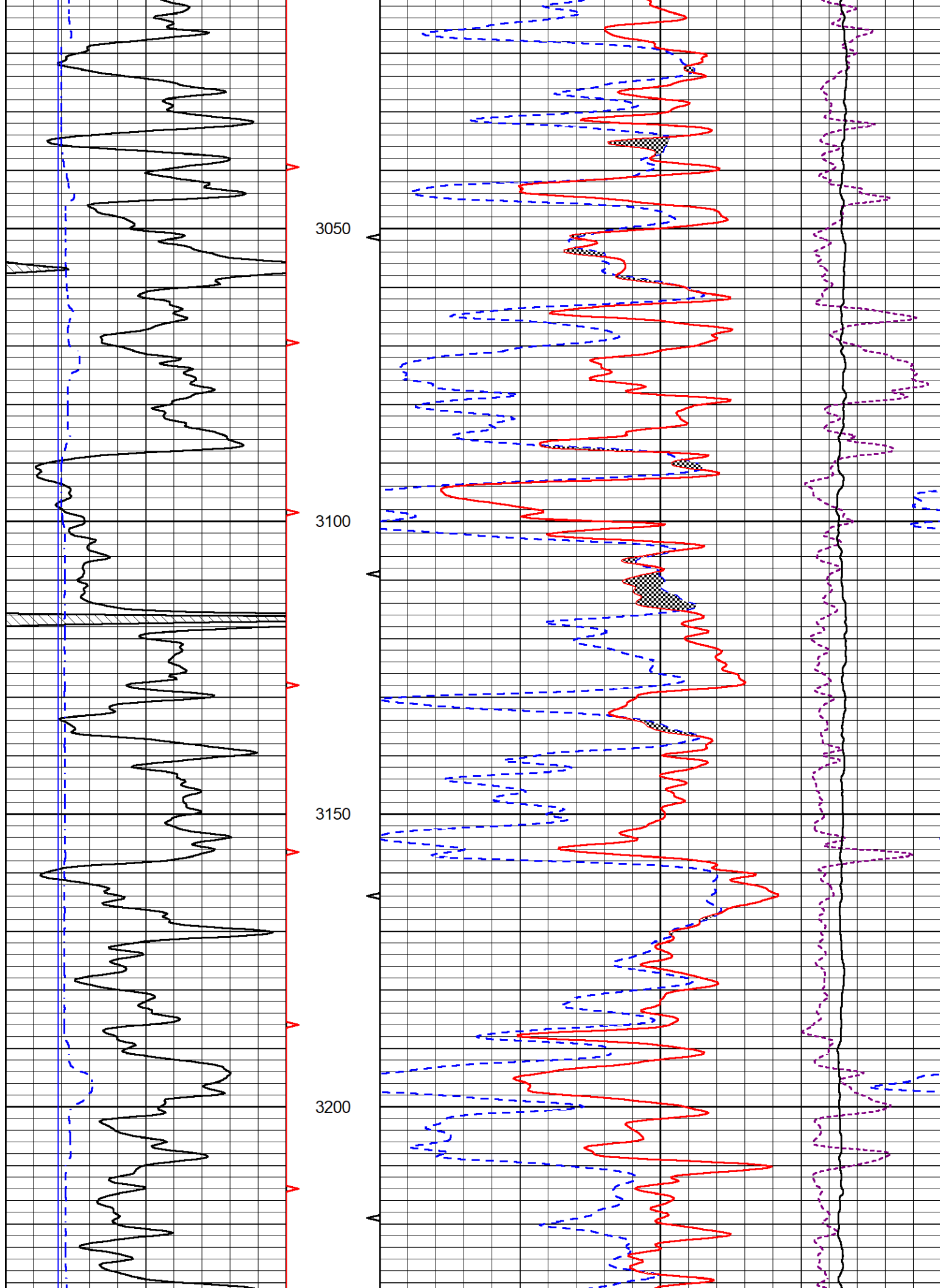
MAIN PASS

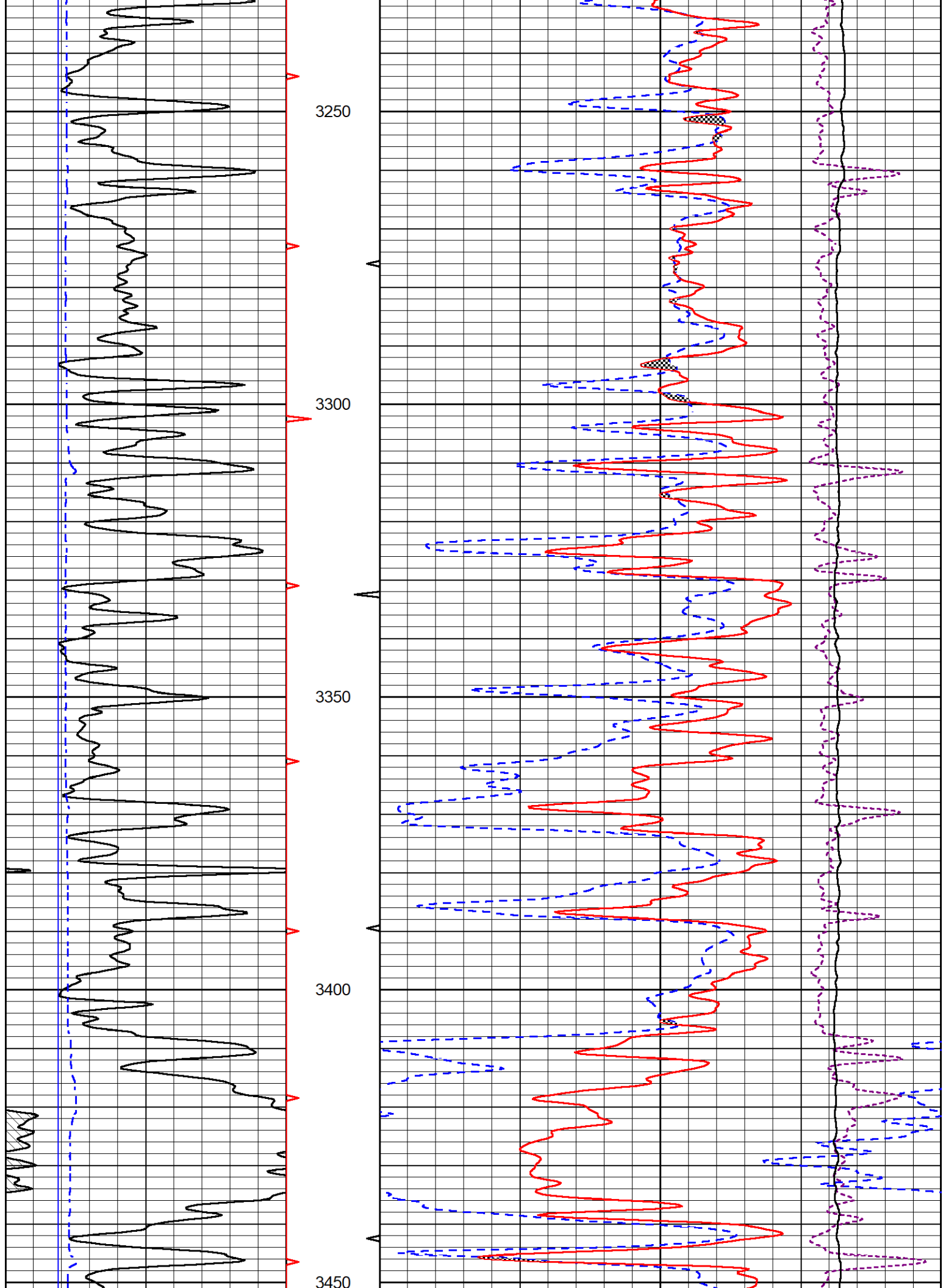
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 Dataset Creation Sun Feb 13 01:04:19 2022
 Charted by Depth in Feet scaled 1:240

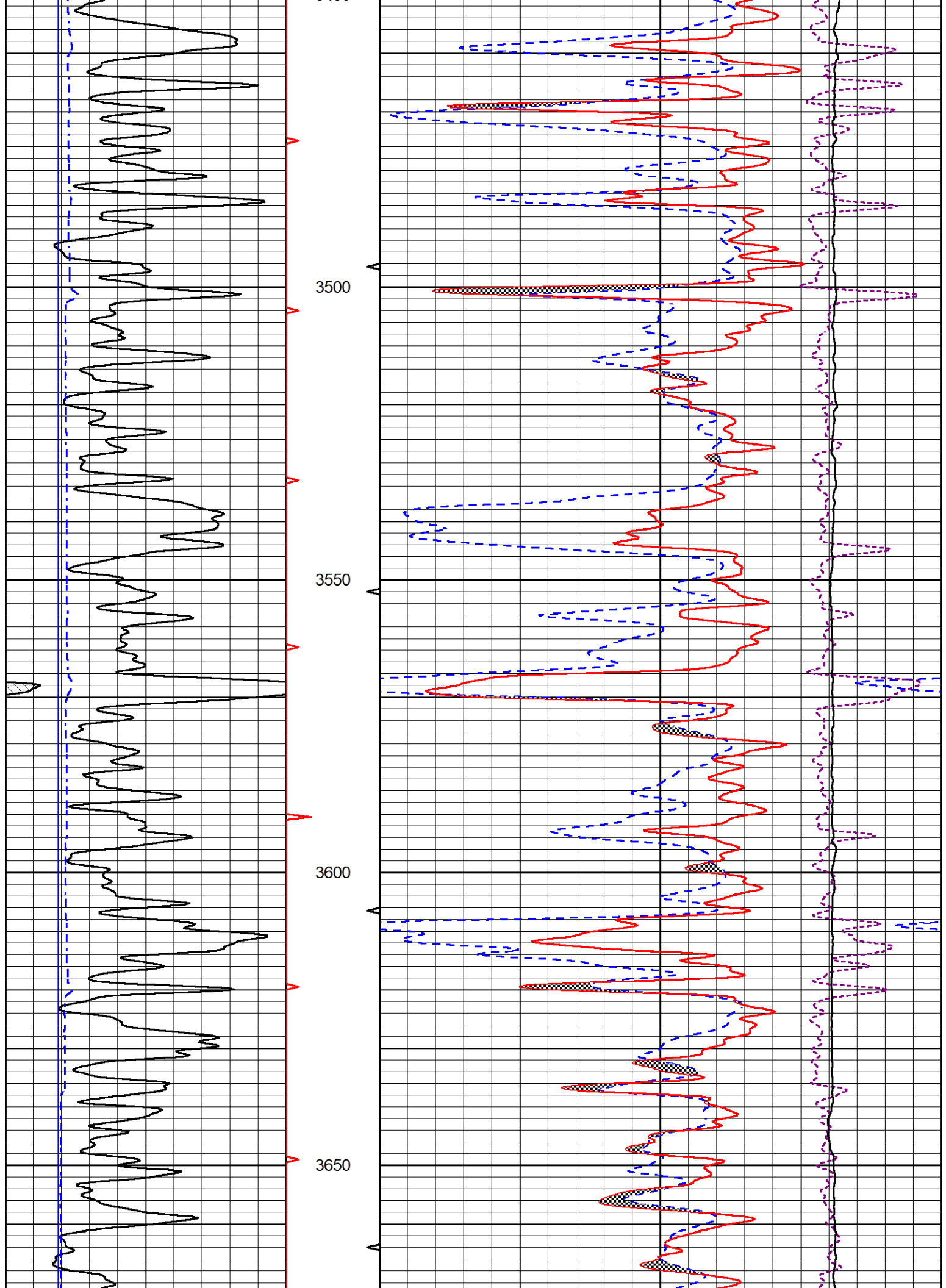


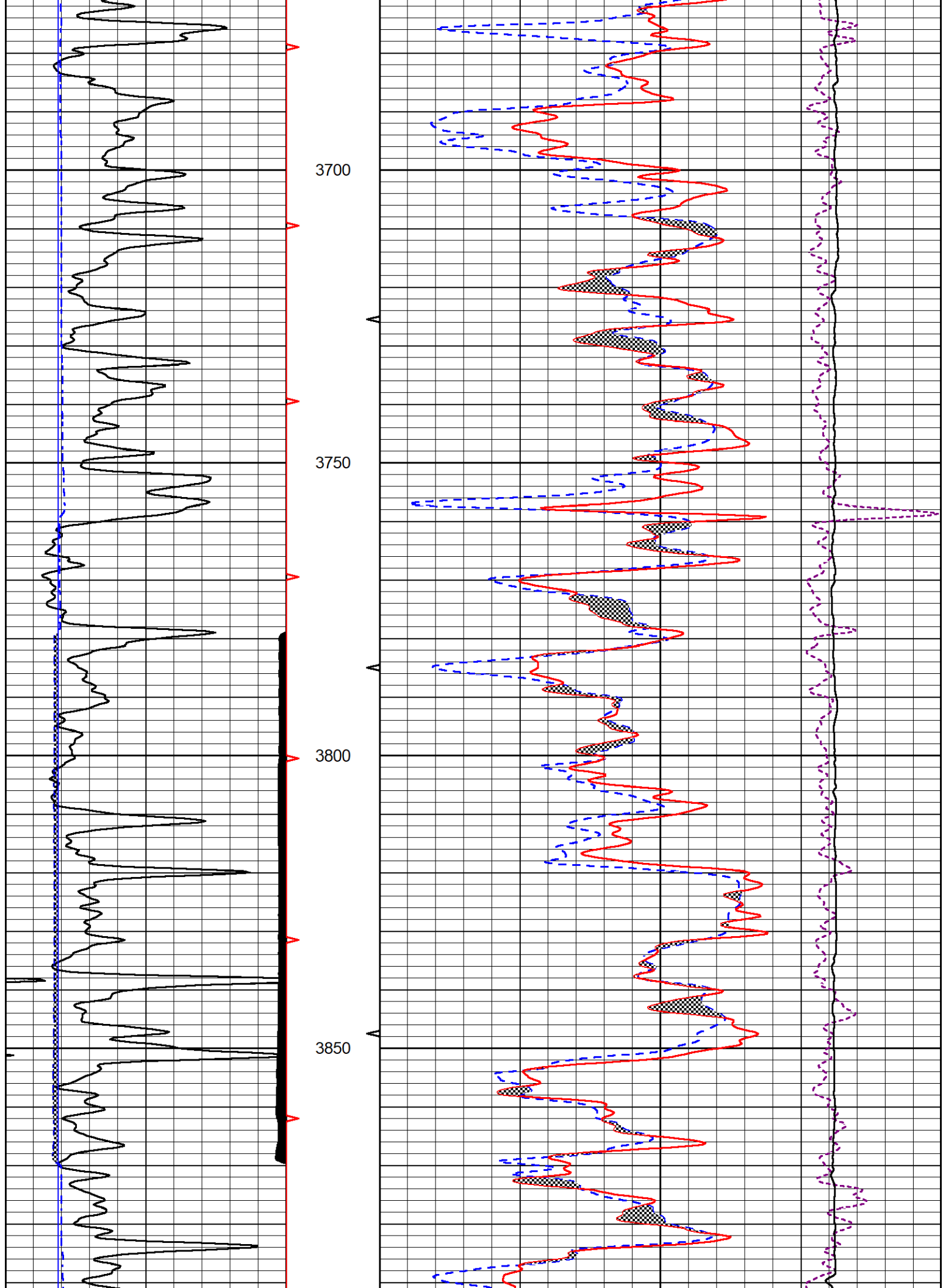


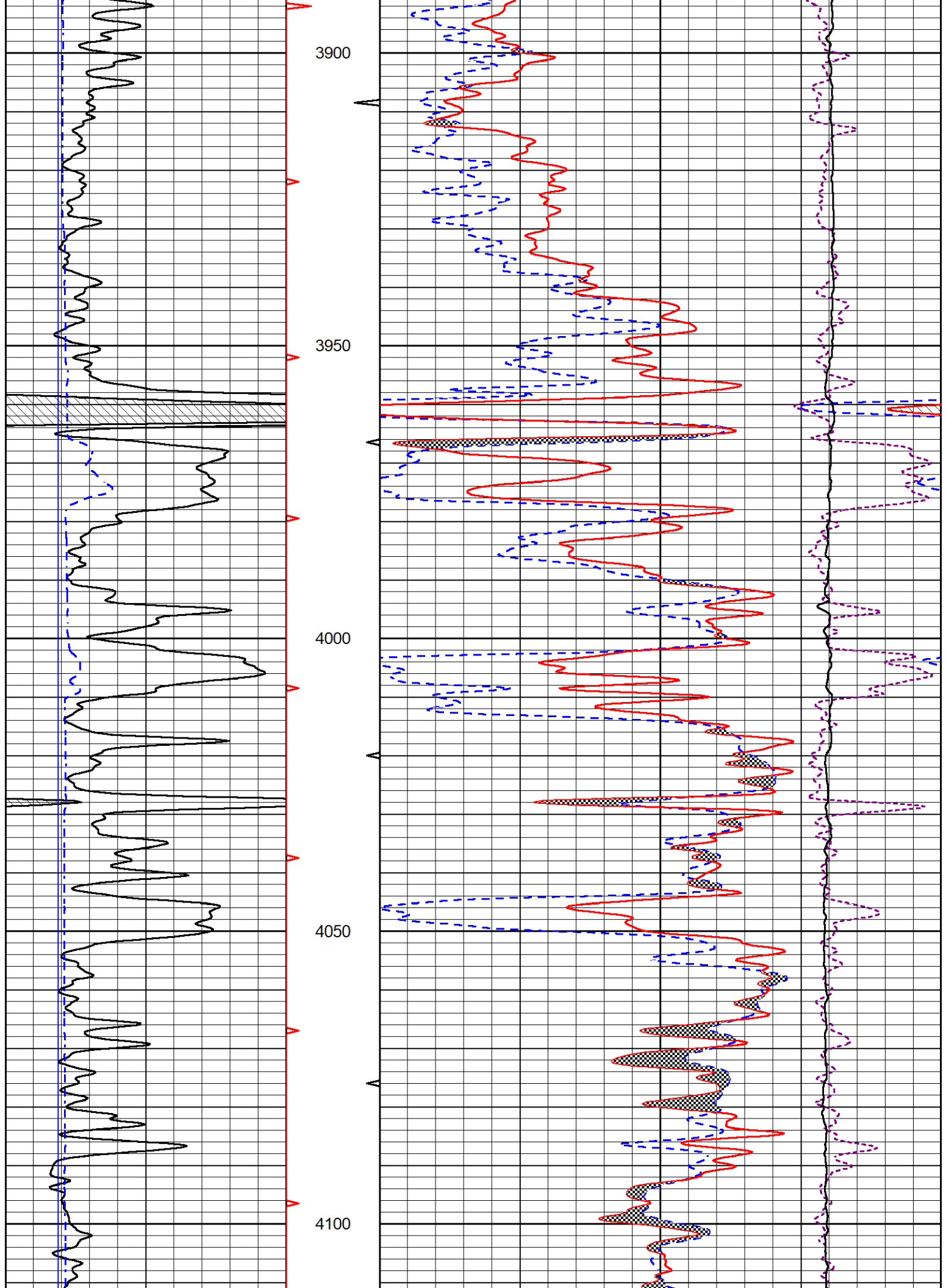


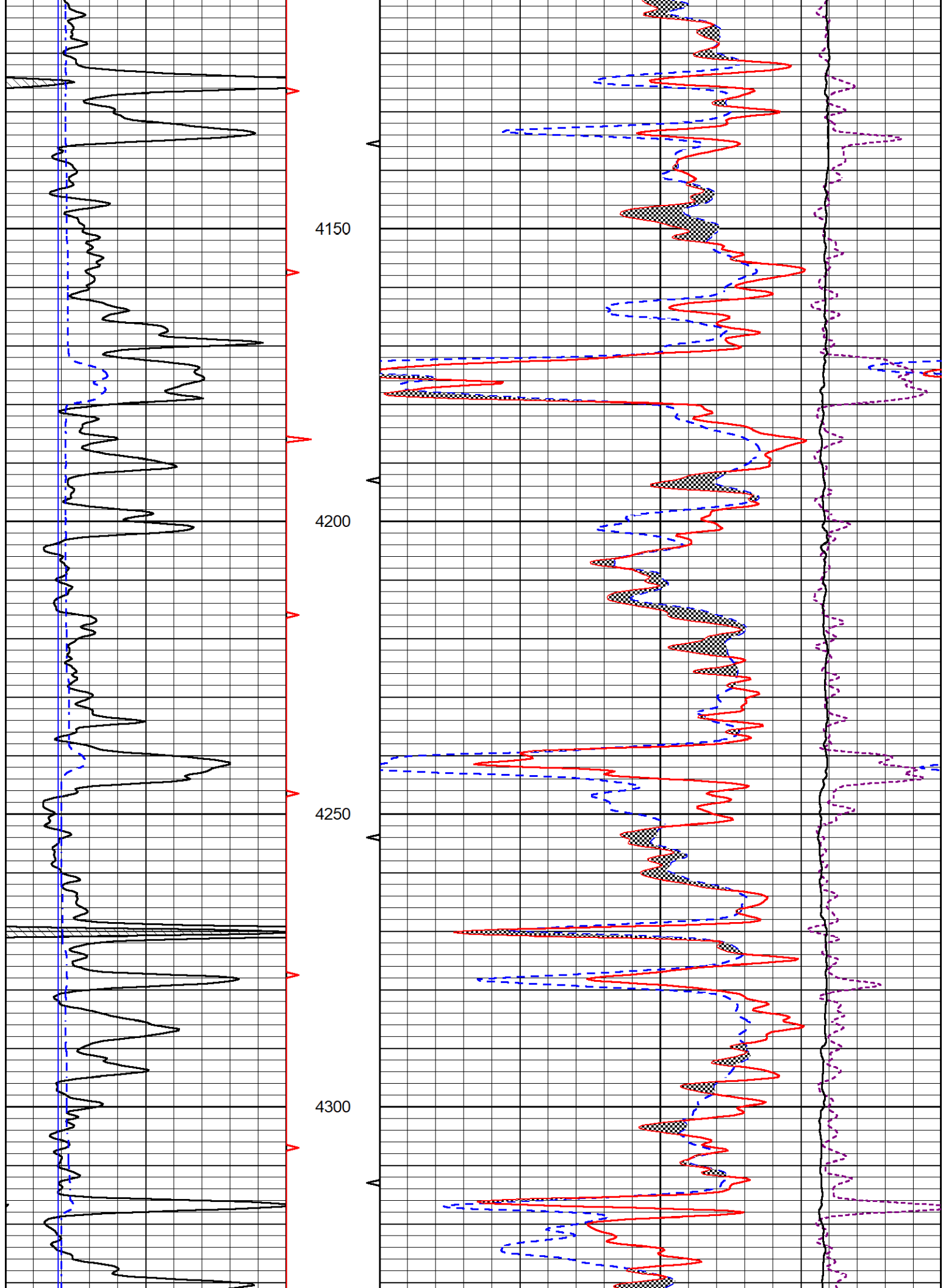


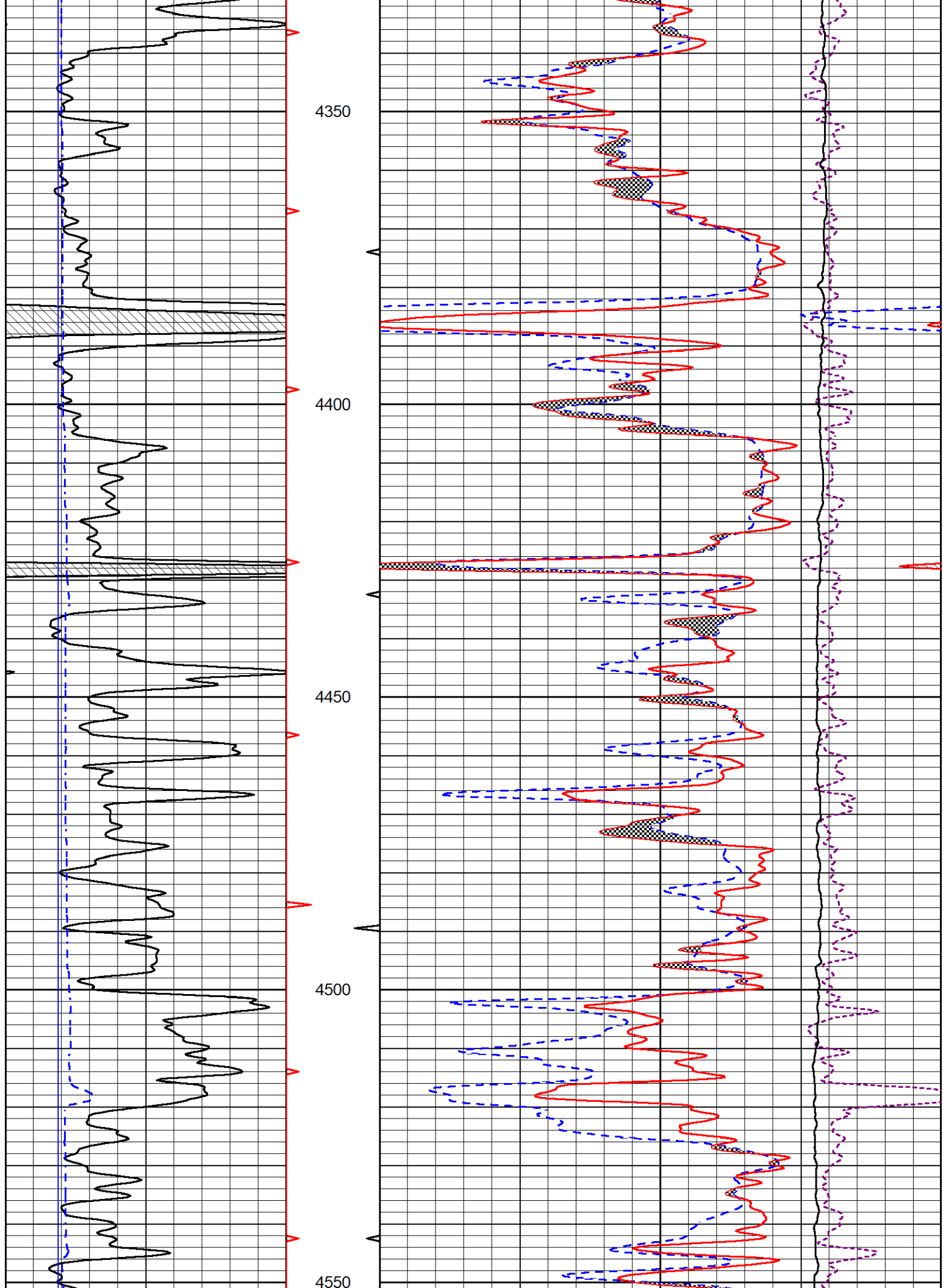


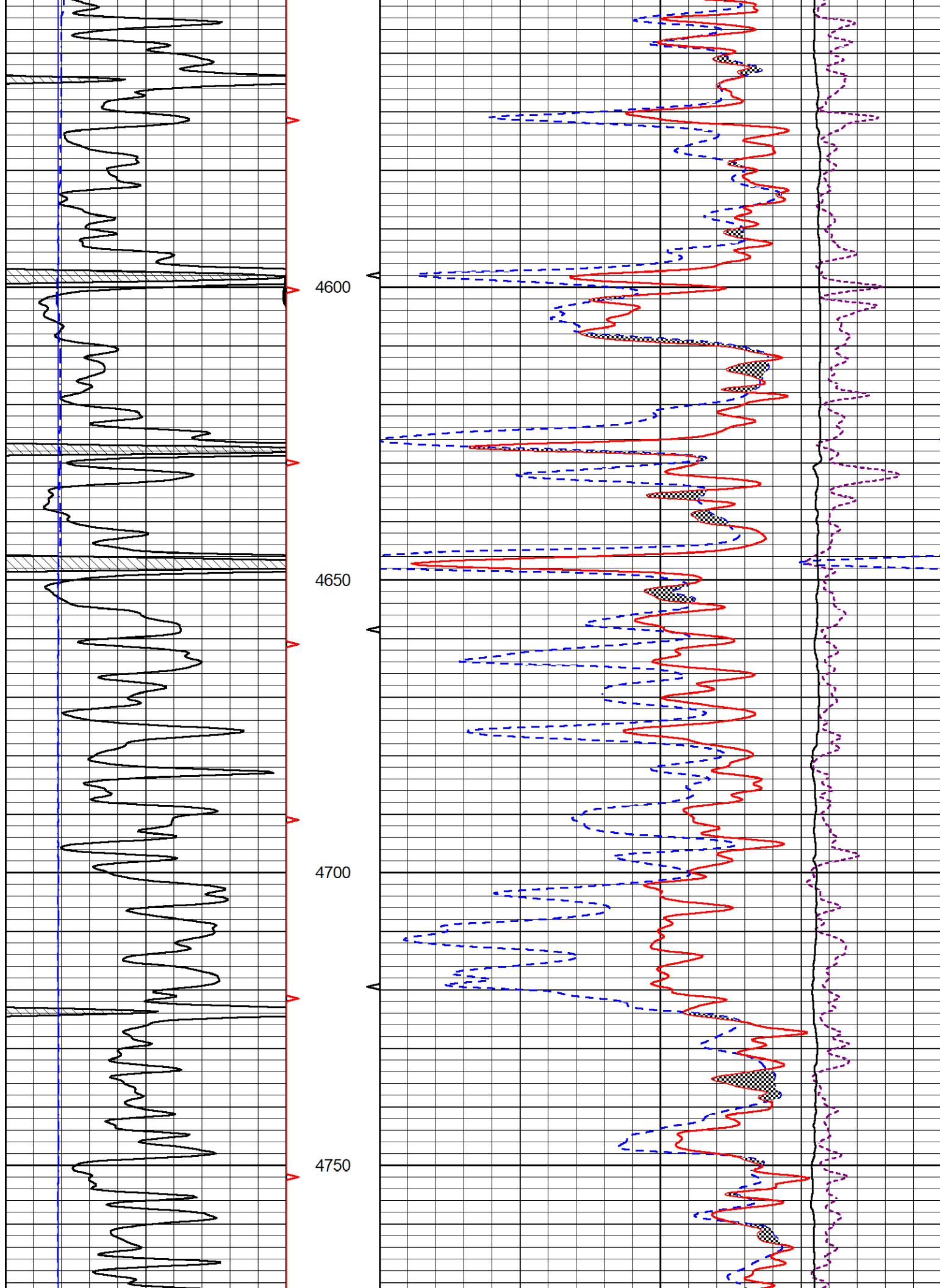


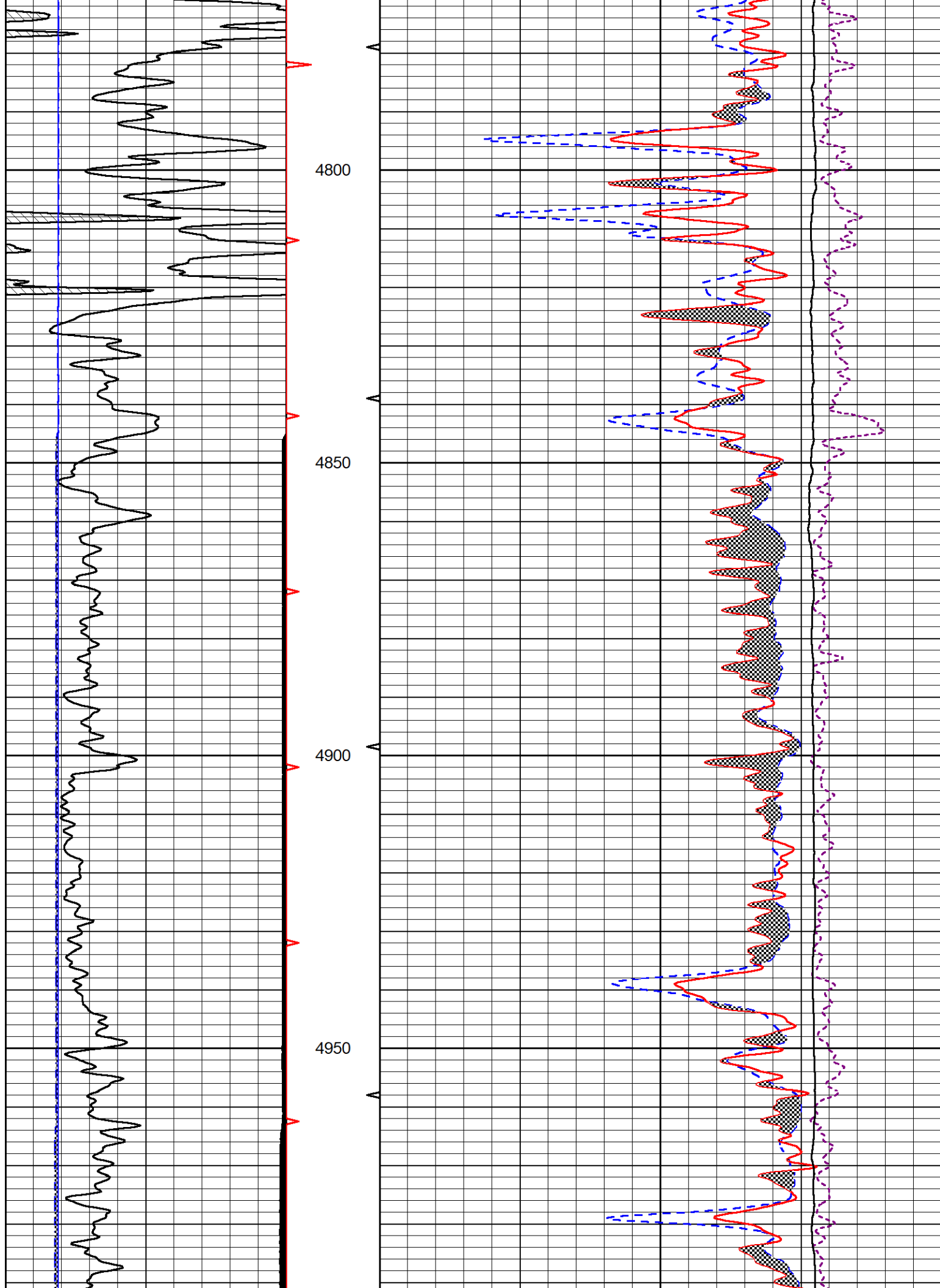


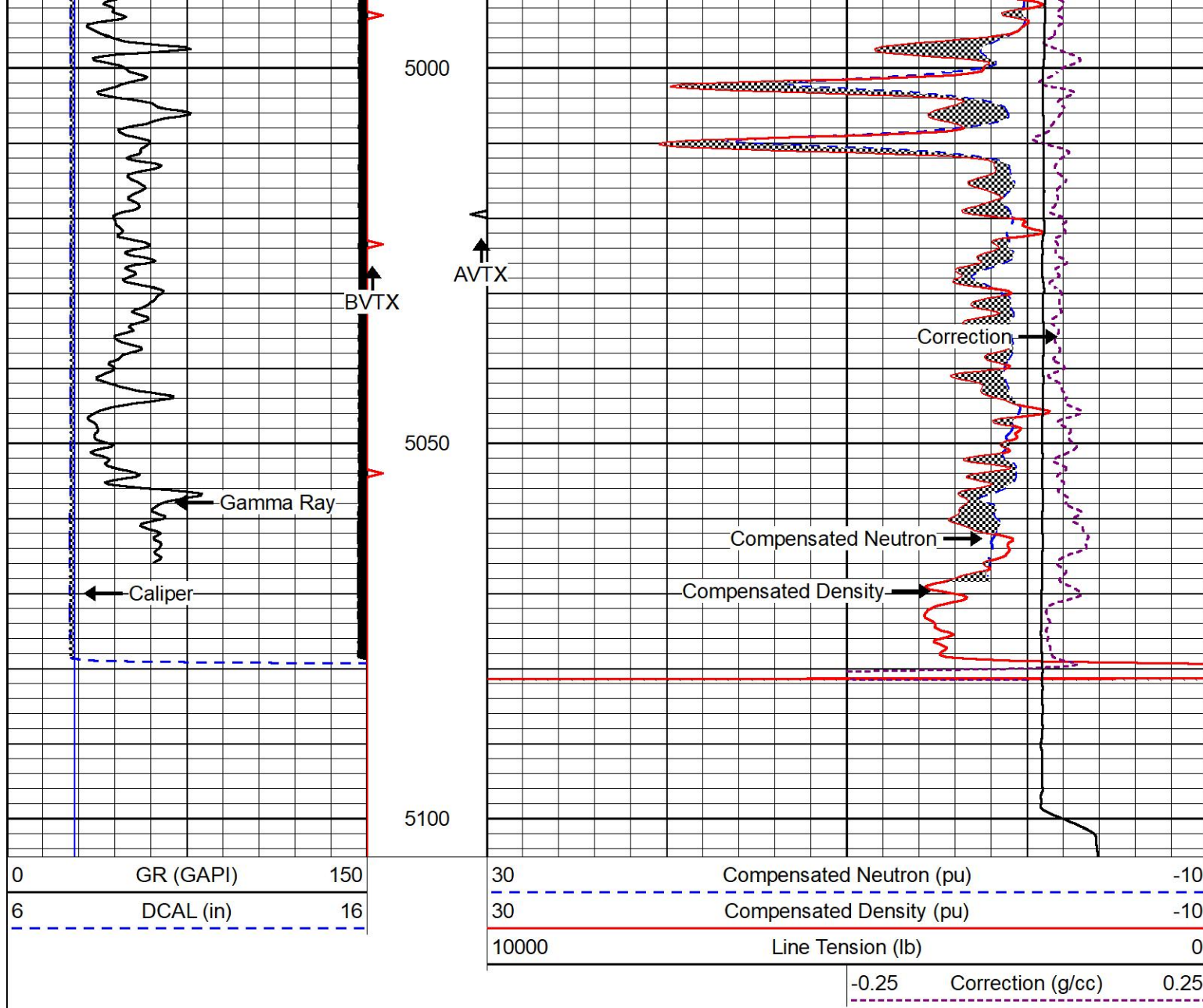








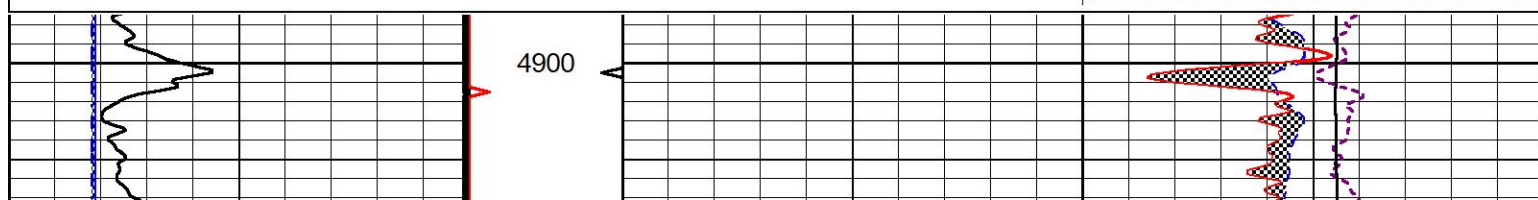
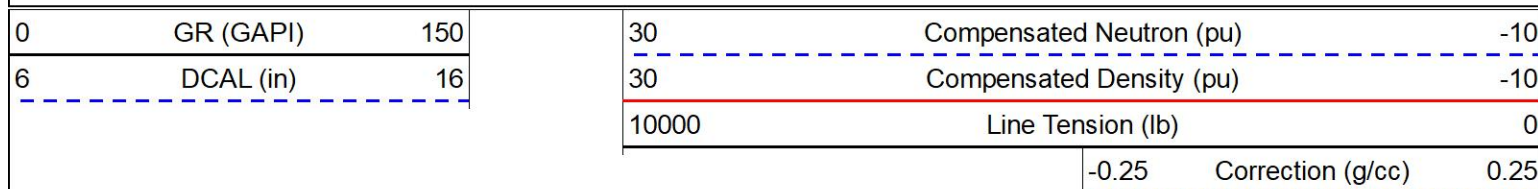


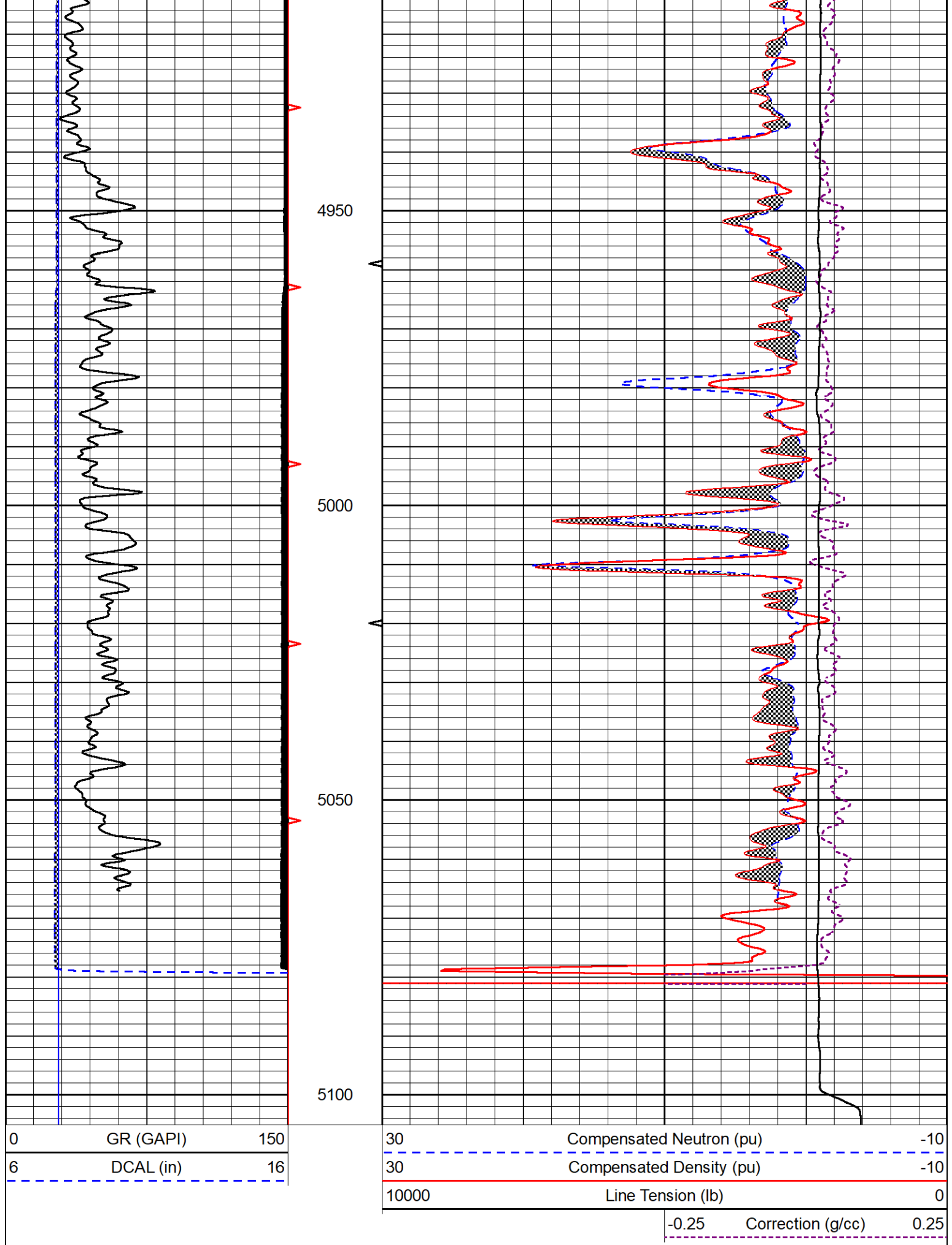


REPEAT SECTION

REPEAT PASS

Database File american_warrior_hicks_a_2_24.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Sun Feb 13 01:03:33 2022
 Charted by Depth in Feet scaled 1:240





Serial-Model: 504 HT-M&W
Surface Cal Performed: Thu Dec 16 22:32:49 2021

		Readings		References		Results	
Loop:	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

Serial-Model: 402-PSI STKBL ML
Performed: Thu Dec 16 22:29:48 2021

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	8000.0000	-1.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	7000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.2000

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

	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	1.05		

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

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



Company	American Warrior, Inc.
Well	Hicks A #2-24
Field	Patriot
County	Finney
State	Kansas