



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Griffin Management LLC

Well Breanna #5

Field

County Barber

State Kansas

Location: API #: 15-007-24429-00-00

Other Services

W2 SE NE NW
990 FNL & 2000 FWL

DIL/MEL

SEC 5 TWP 30S RGE 15W

Permanent Datum Ground Level Elevation 1963
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

K.B. 1968
D.F. 1963
G.L. 1963

Company Griffin Management LLC
Well Breanna #5
Field
County Barber
State Kansas

Date 8/4/2022

Run Number One

Type Log CNL/CDL

Depth Driller 4820

Depth Logger 4808

Bottom Logged Interval 4780

Top Logged Interval 2800

Type Fluid In Hole Chemical

Salinity, PPM CL 3000

Density 9.0

Level Full

Max. Rec. Temp. F 124

Operating Rig Time 2.5 Hours

Equipment -- Location P-24 Hays

Recorded By T. Martin

Witnessed By Charles Griffin

Eli Felts

Borehole Record

Casing Record

Run No. Bit From To Size Wgt. From To

One 12.25 00 262 8.625 23 00 262

Two 7.875 262 TD 262

<<< Fold Here >>>

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.

Pratt, KS, W to 140, S to Y,
1/4 E, N 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: T. Martin
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Charles Griffin
Secondary Witness: Eli Felts
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			CDL-M&W (302-02)	8.50	4.00	250.00				
	28.17			ML-PSIML (402)	7.58	4.00	65.00				
	27.68										
MCAL MI MN	19.58										
	19.58										
	19.58										
RLL3F RLL3	15.50 15.50			DIL-M&W (507)	18.25	3.50	220.00				
CILD	8.33										
	8.33										
CILM	4.50										
SP	0.20										
	0.20										
Dataset: griffin_breanna #5.db: field/well/StkMI/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in											

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_breanna #5.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	124	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	210	80		4808

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



MIDWEST WIRELINE

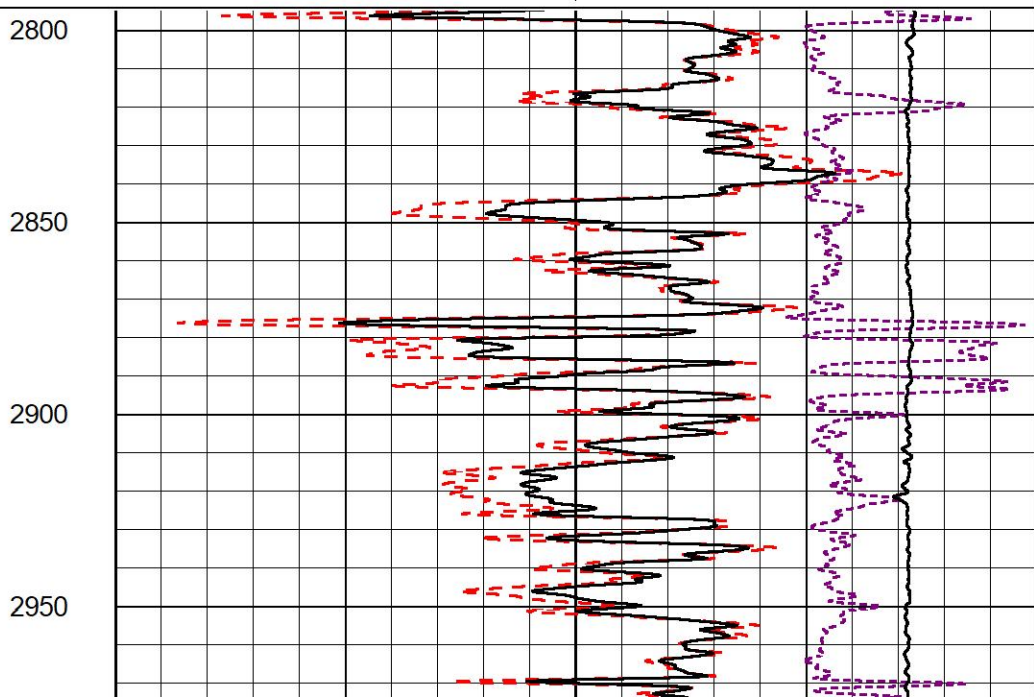
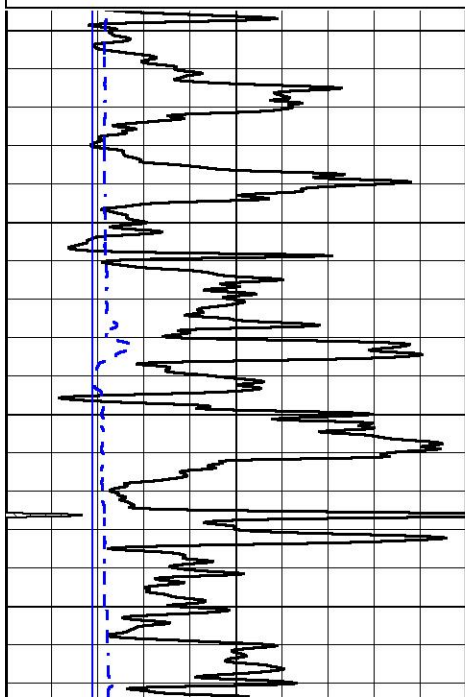
2" SCALE BULK DENSITY

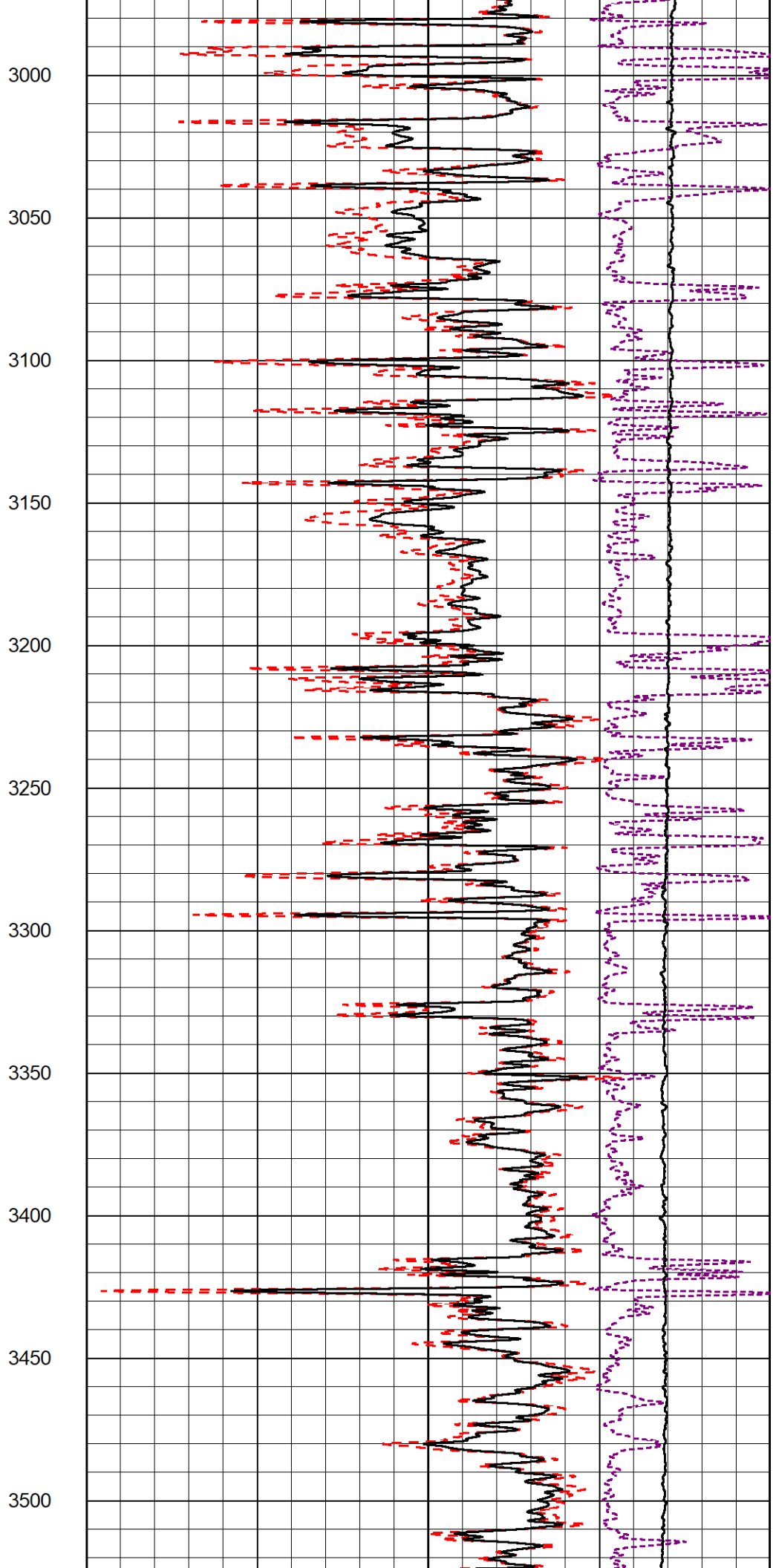
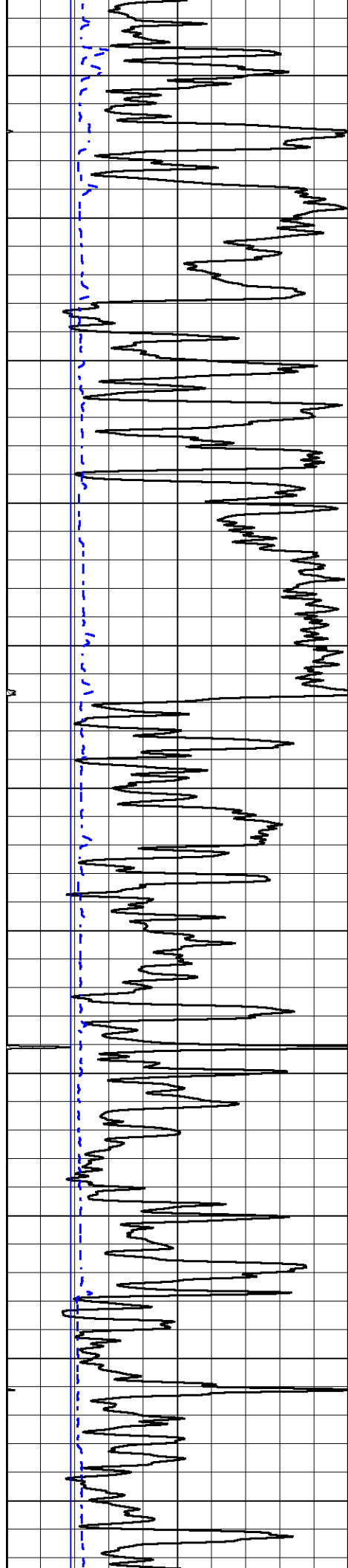
MAIN PASS

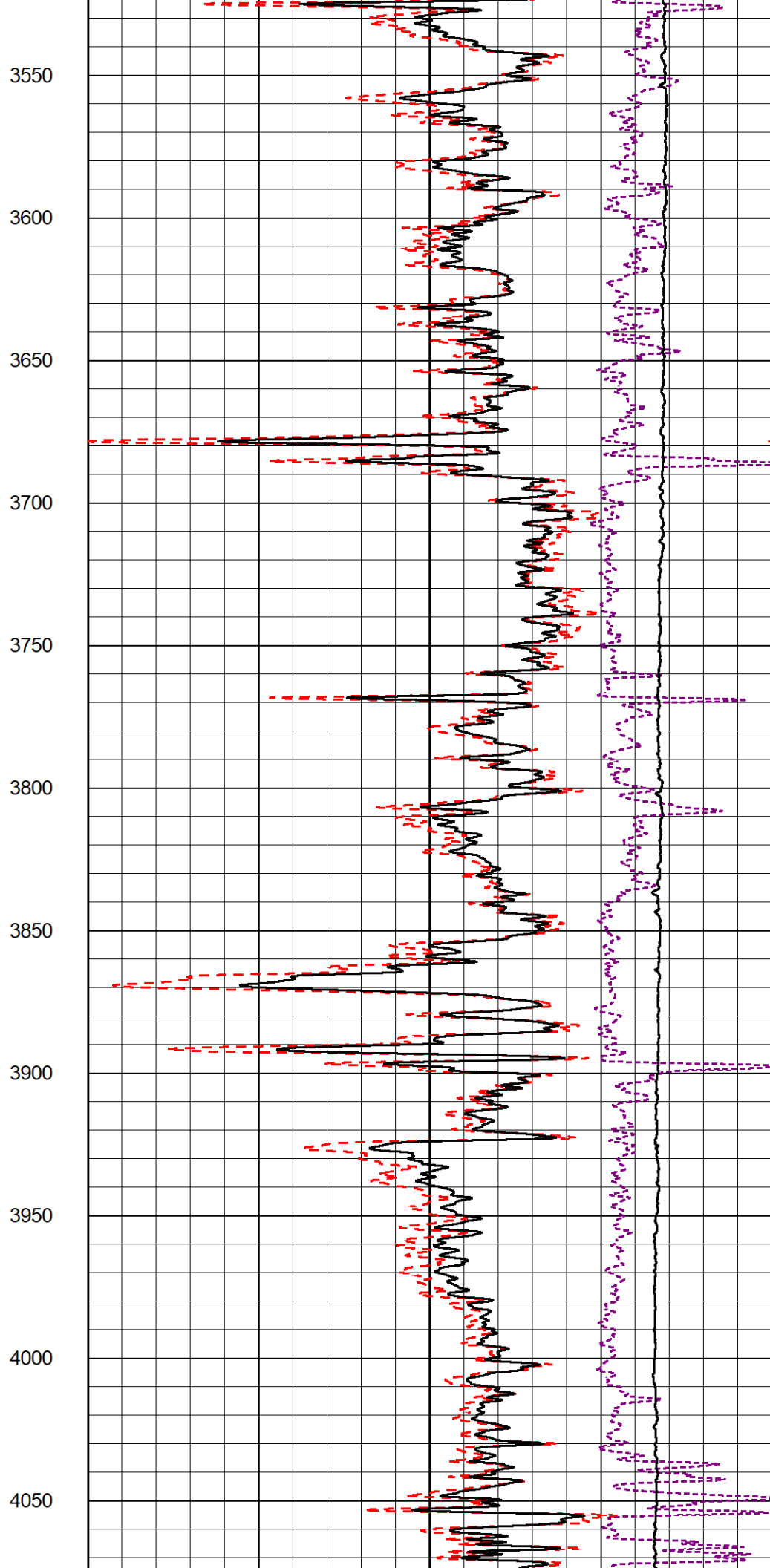
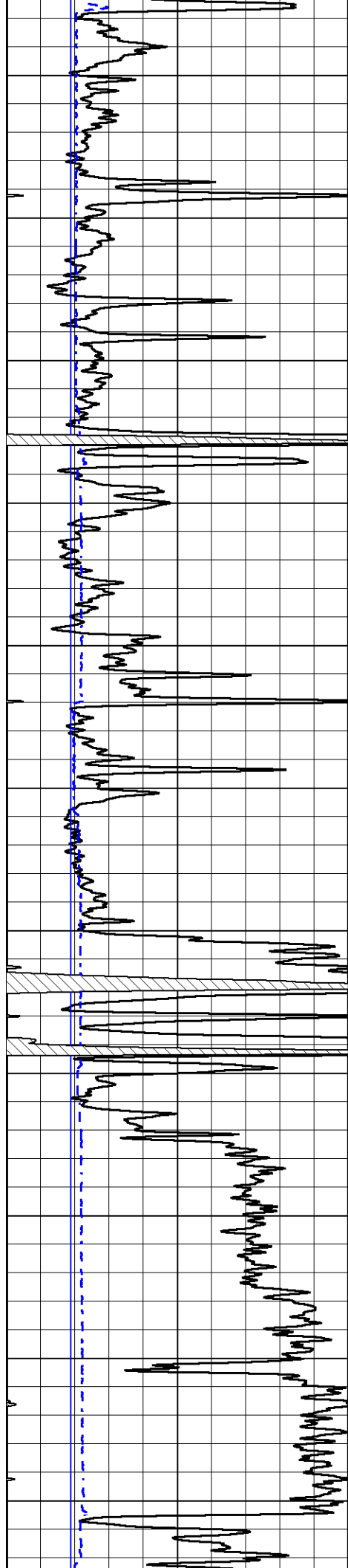
Database File griffin_breanna #5.db
Dataset Pathname StkMI/pass3.3
Presentation Format _cdl
Dataset Creation Thu Aug 04 02:21:26 2022
Charted by Depth in Feet scaled 1:600

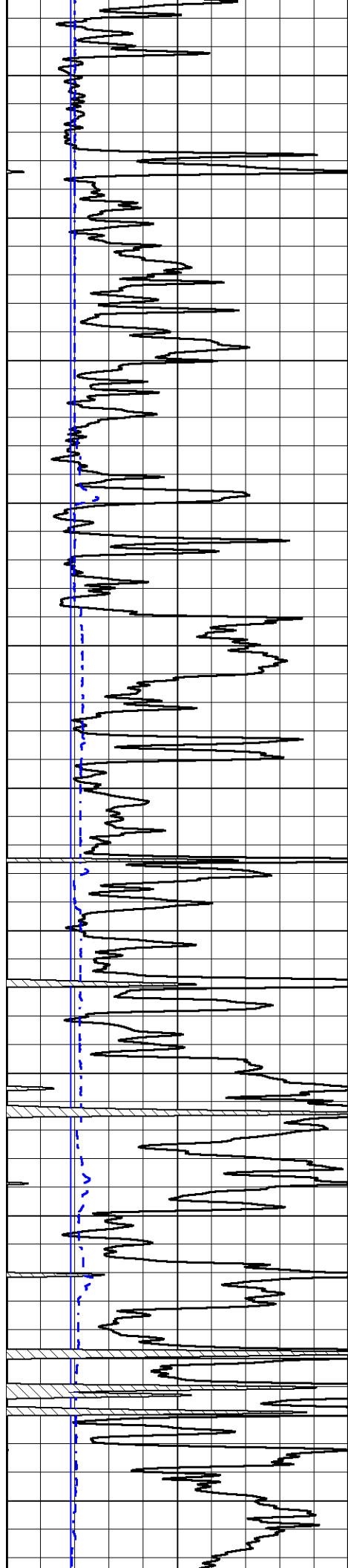
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

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









4100

4150

4200

4250

4300

4350

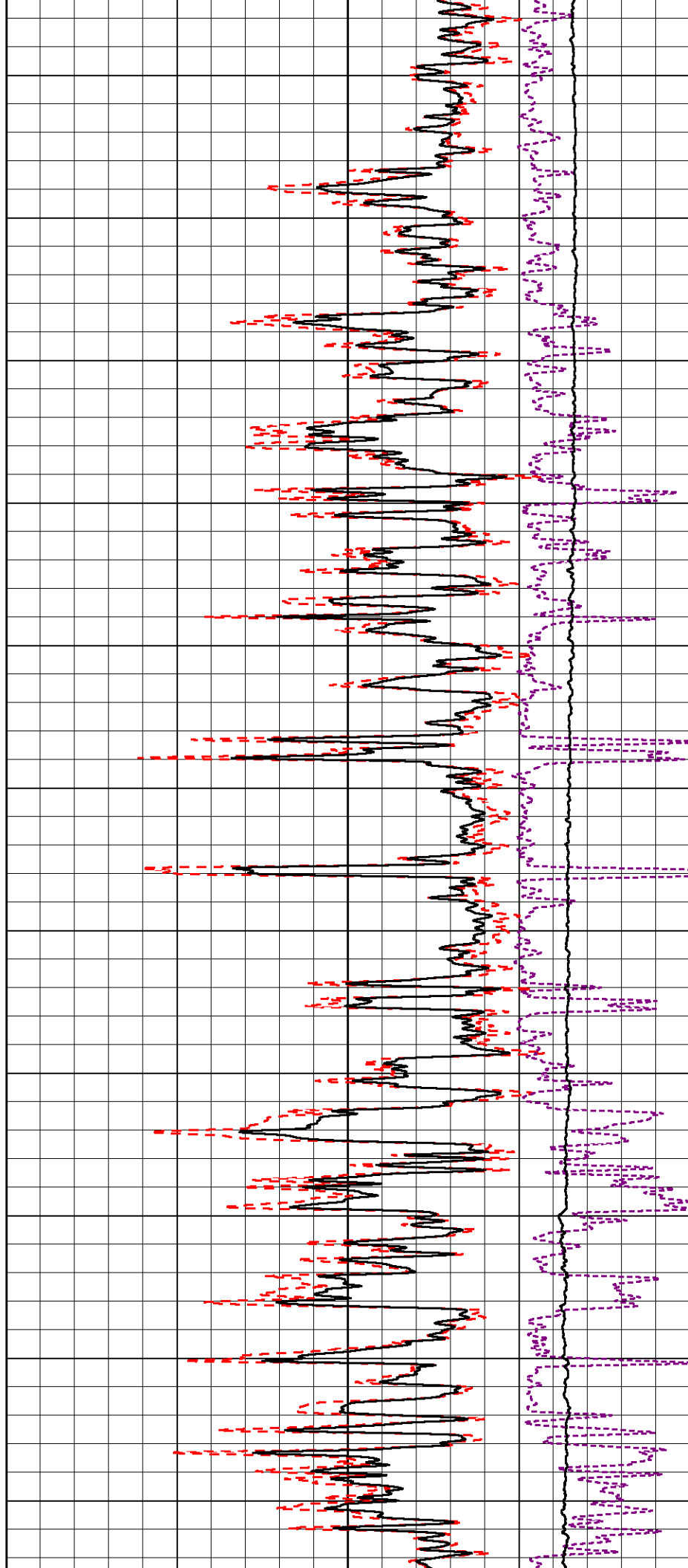
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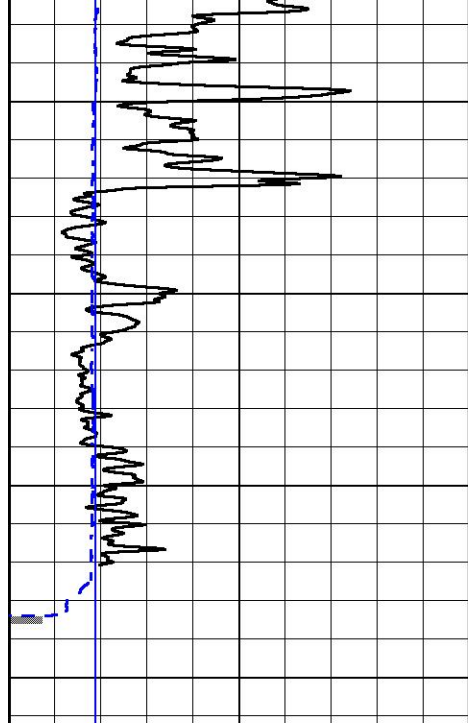
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4500

4550

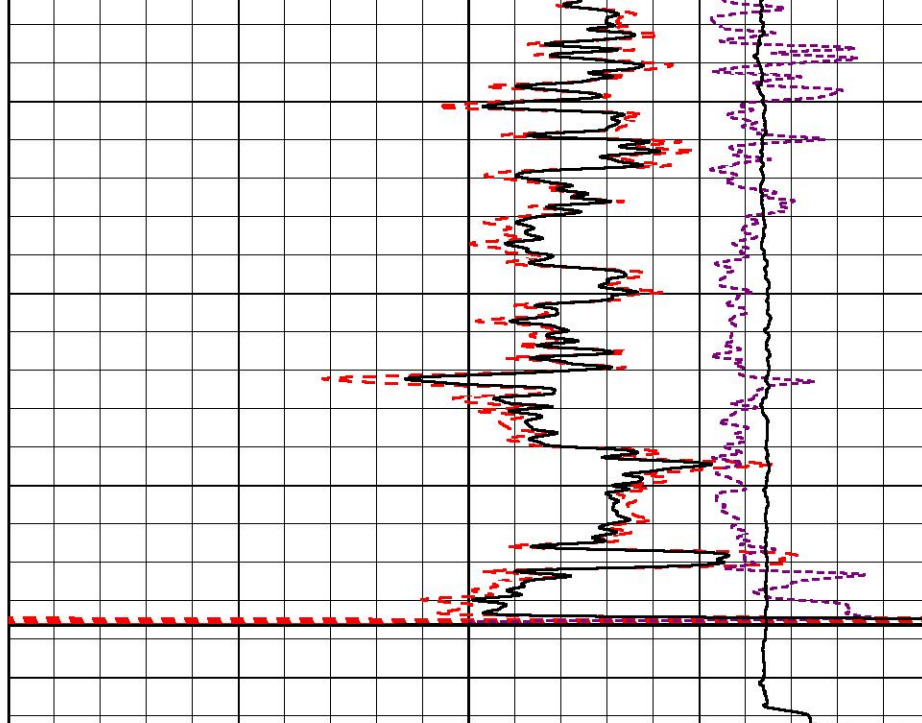
4600





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

4650
4700
4750
4800



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

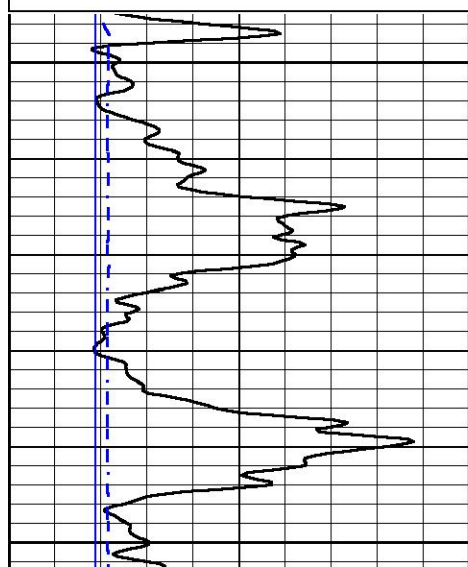
DETAIL SECTION

MAIN PASS

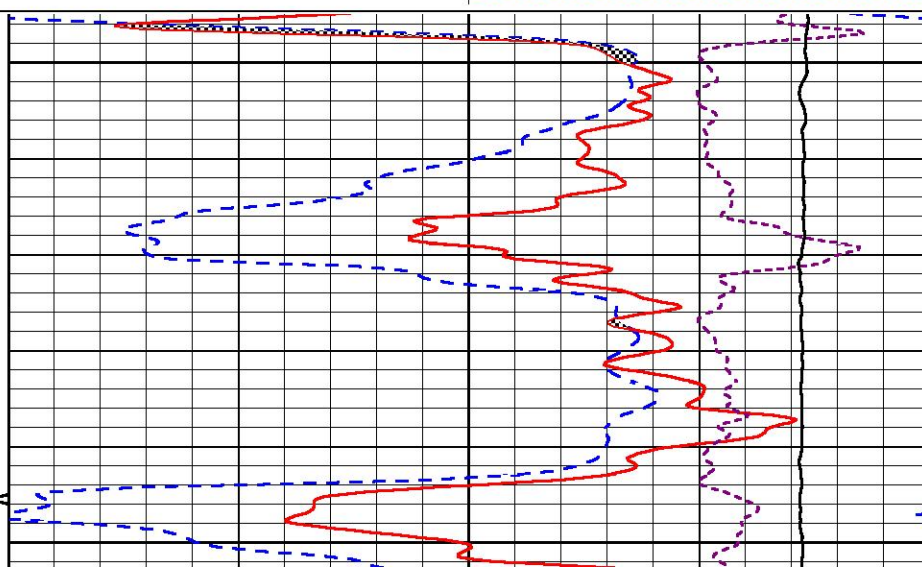
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Charted by Depth in Feet scaled 1:240

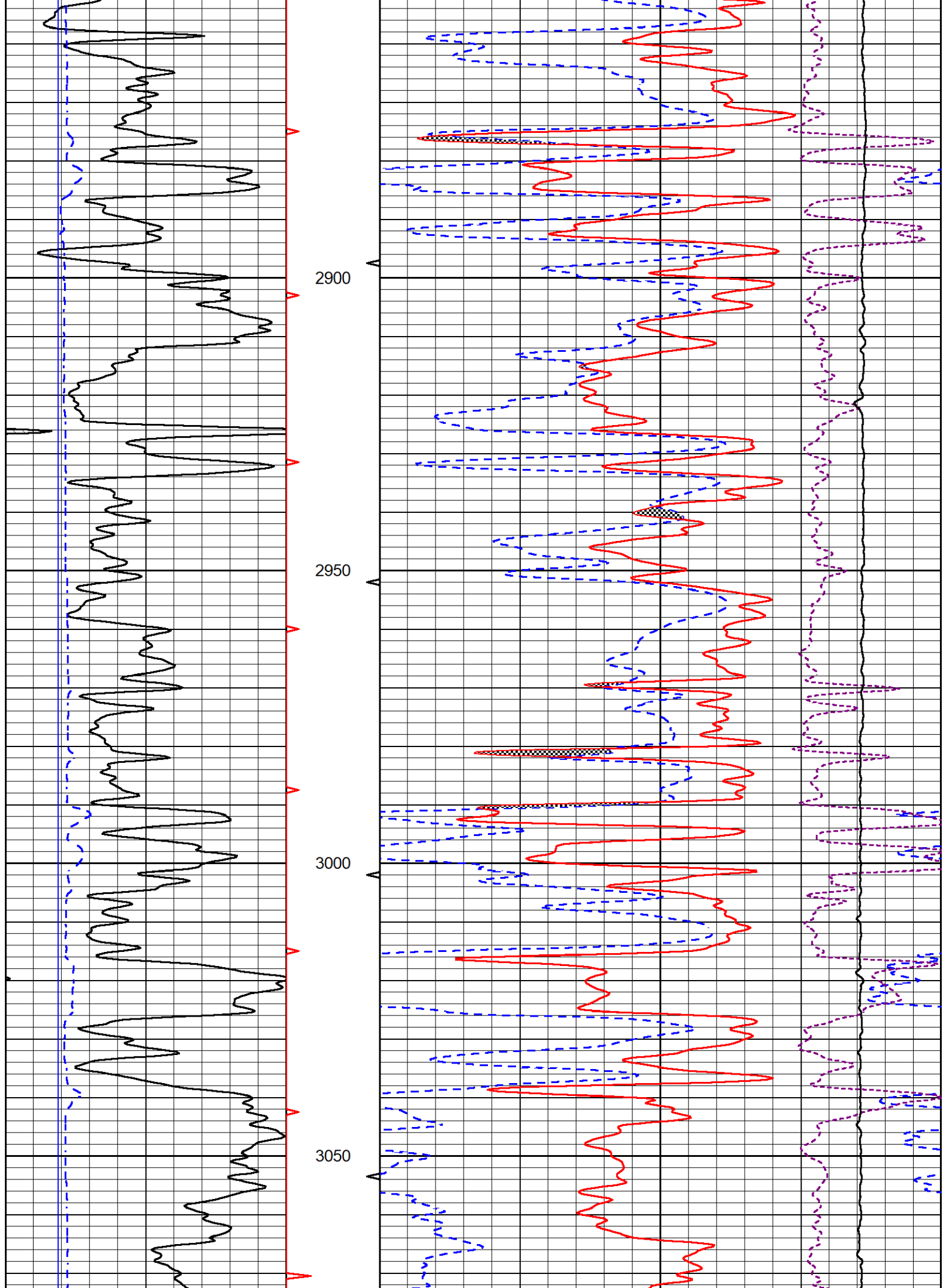
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6	Caliper (in)	16

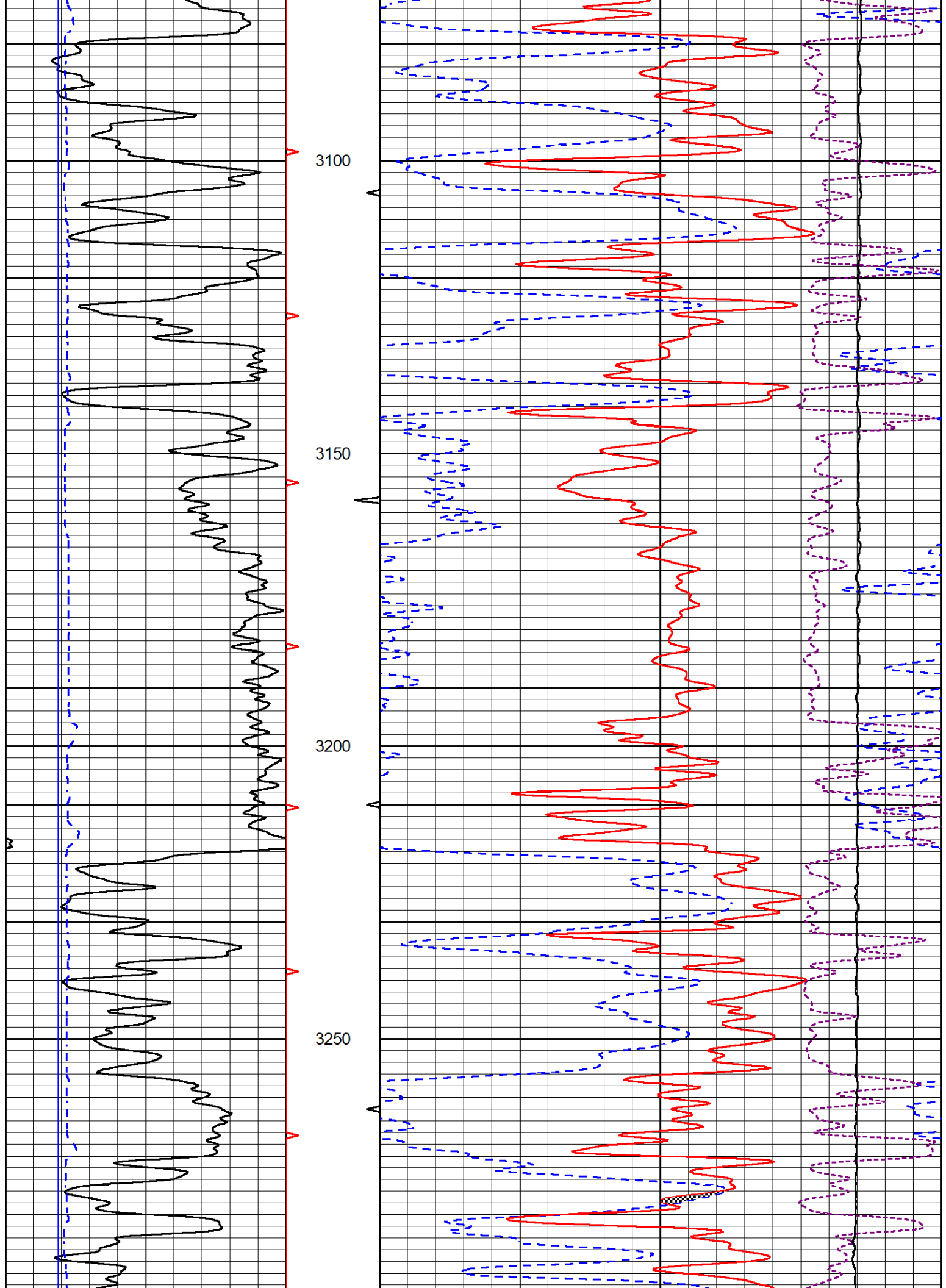
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

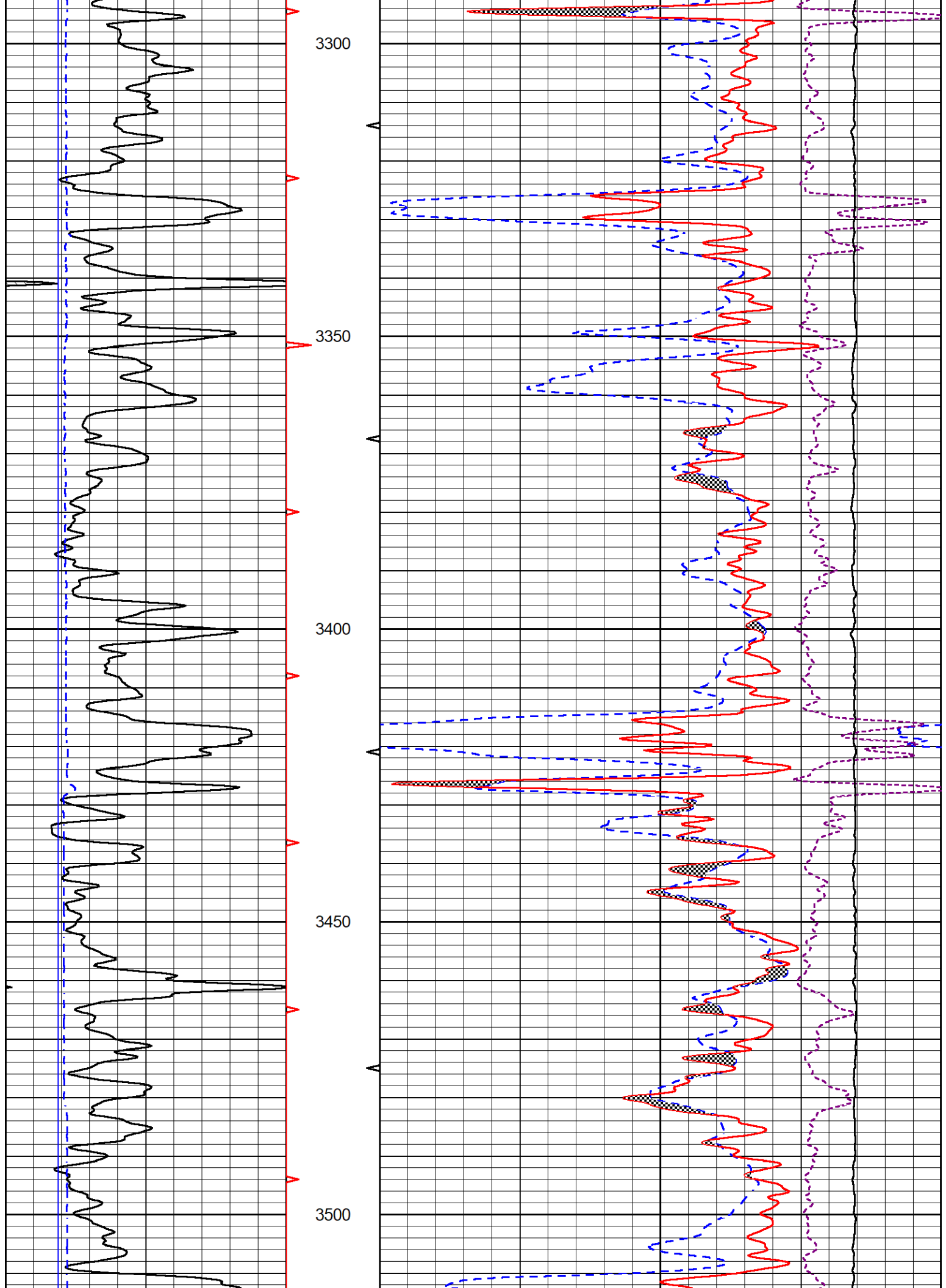


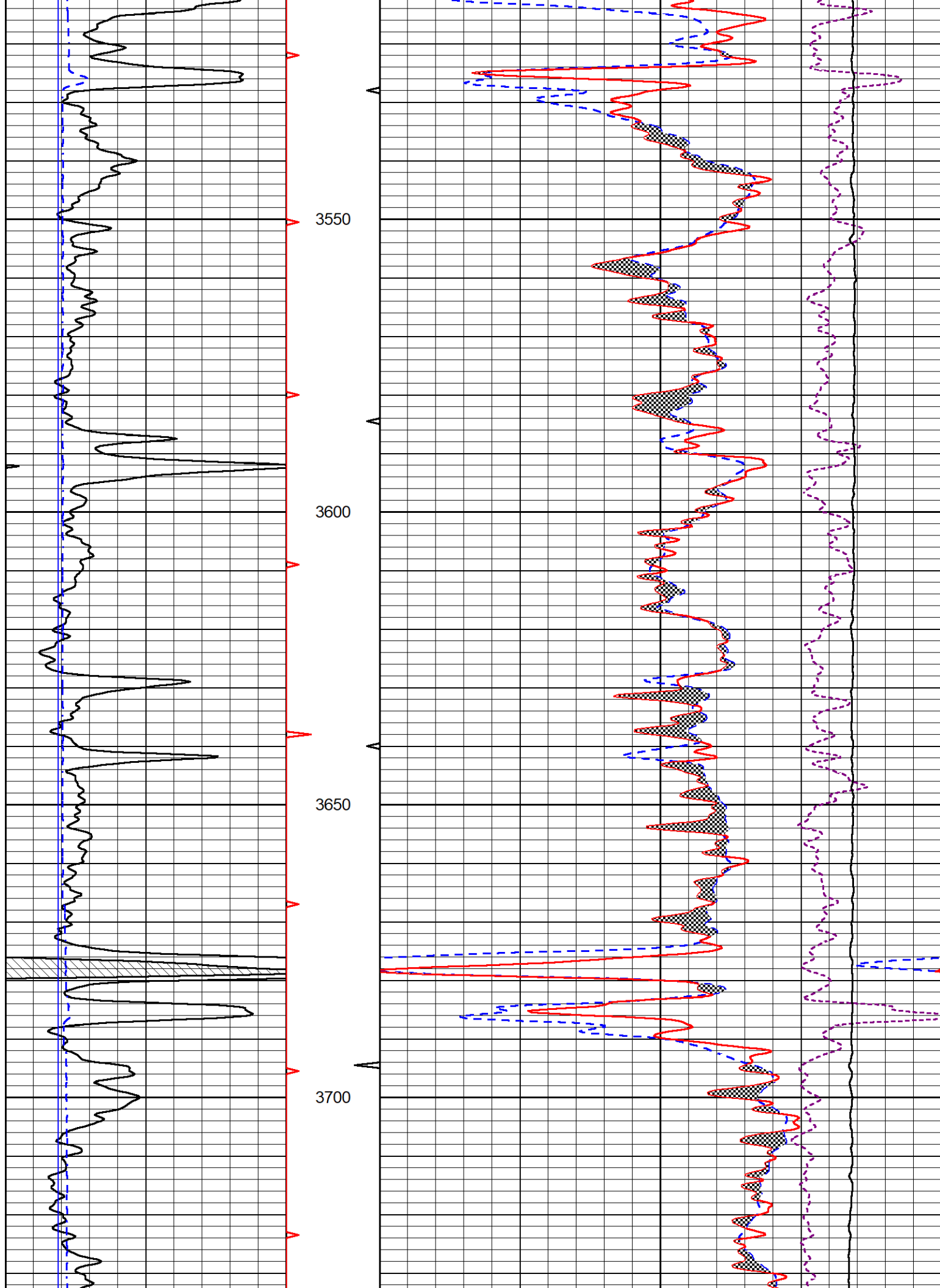
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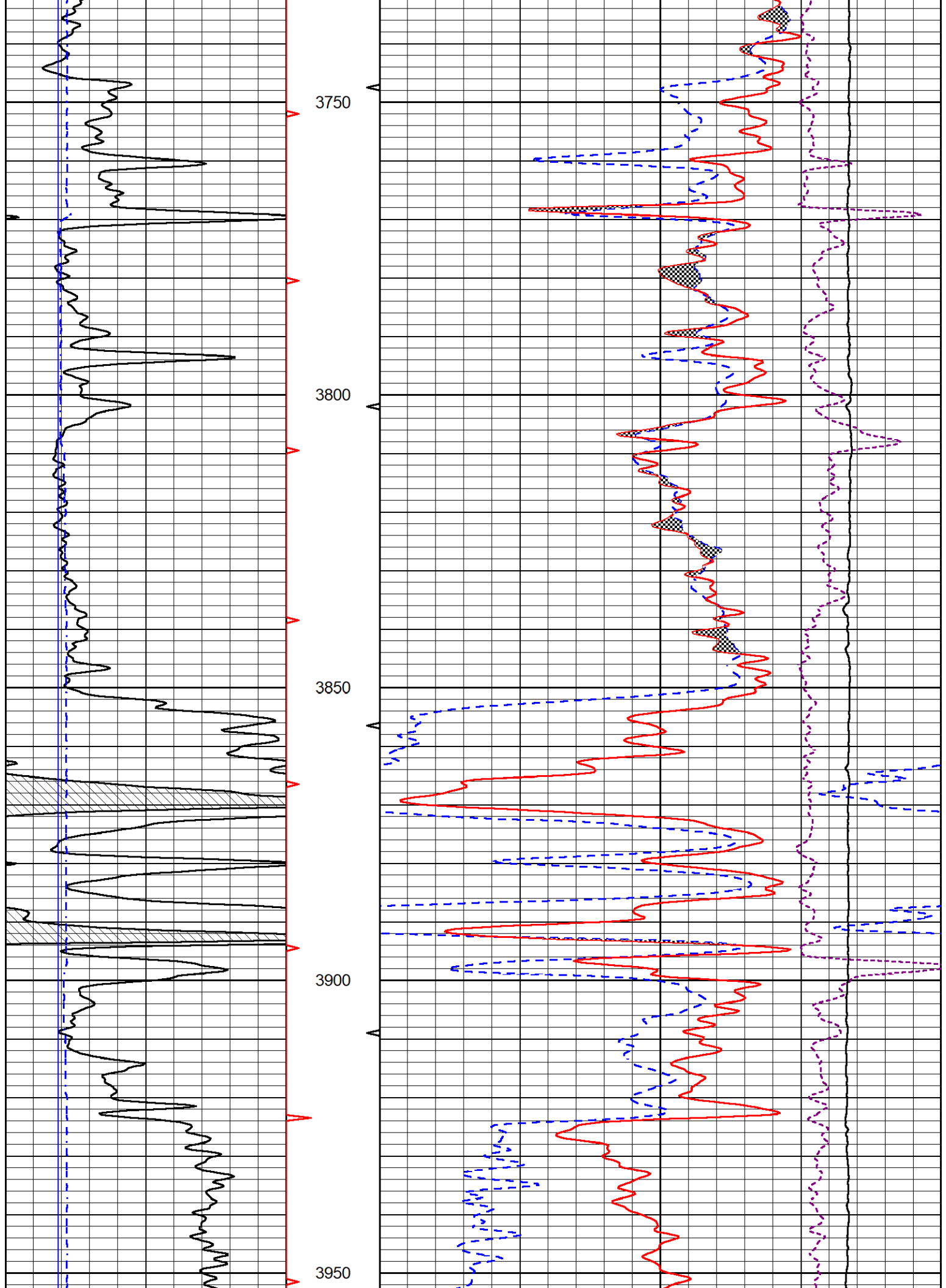


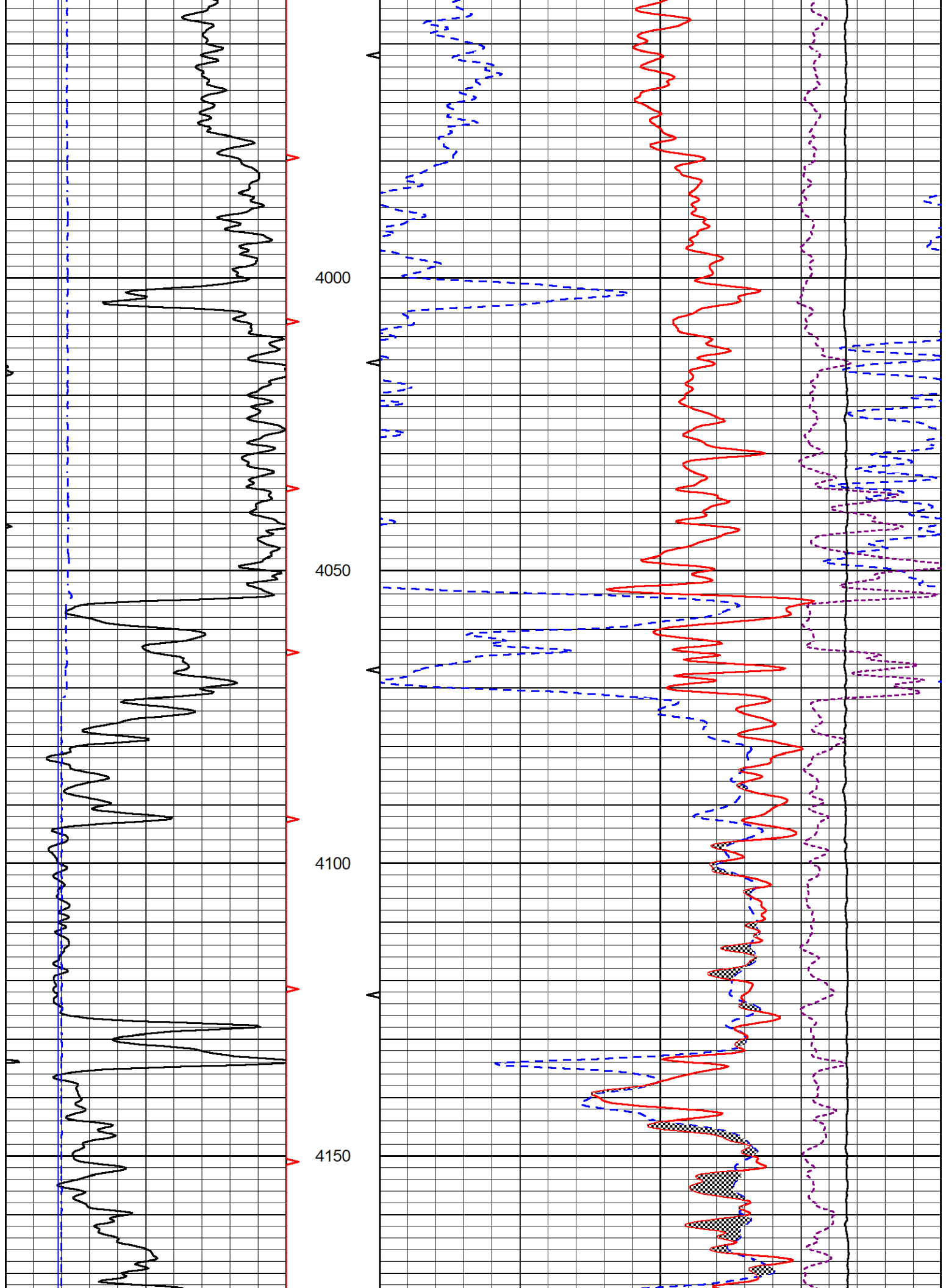


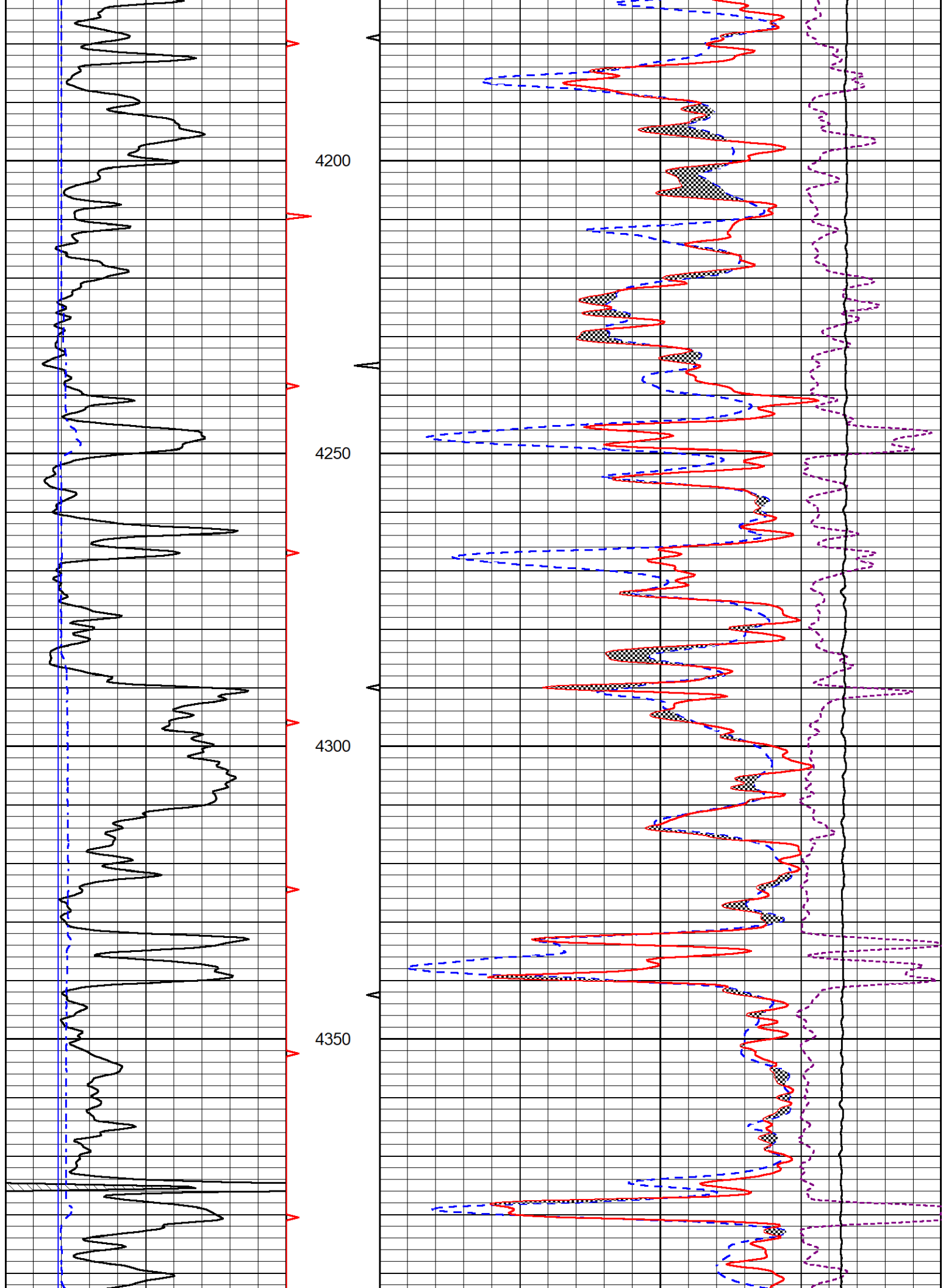


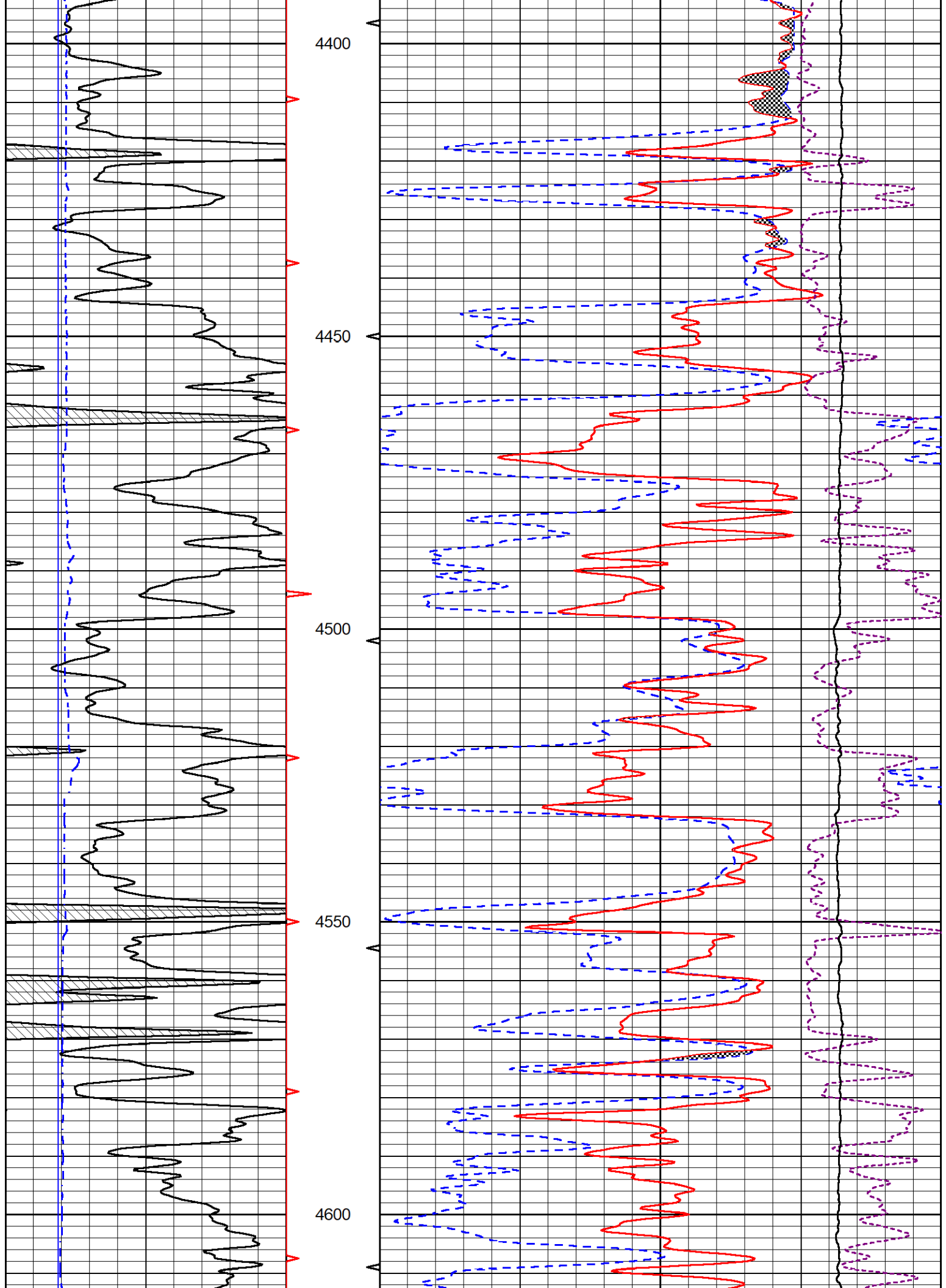


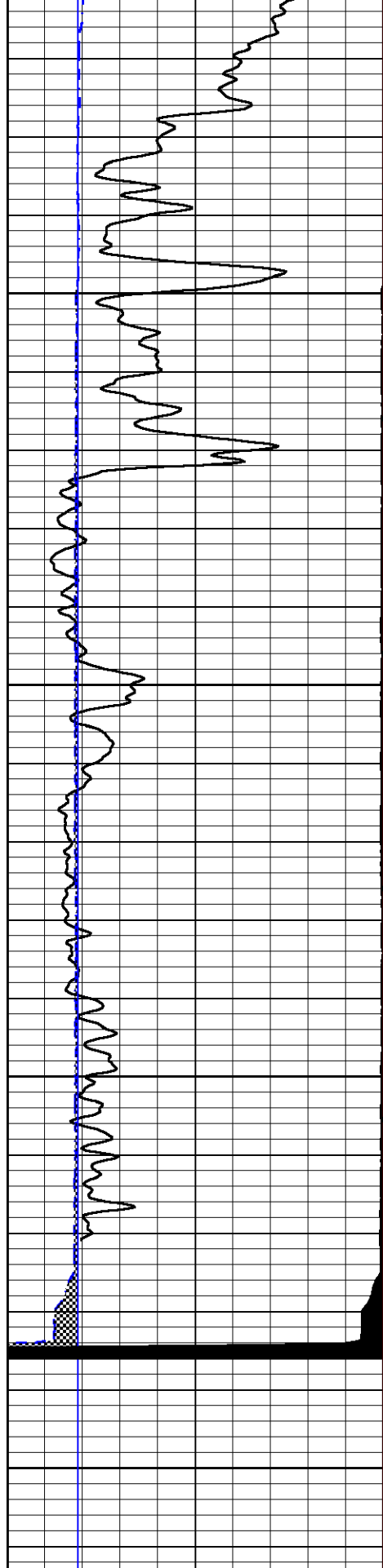




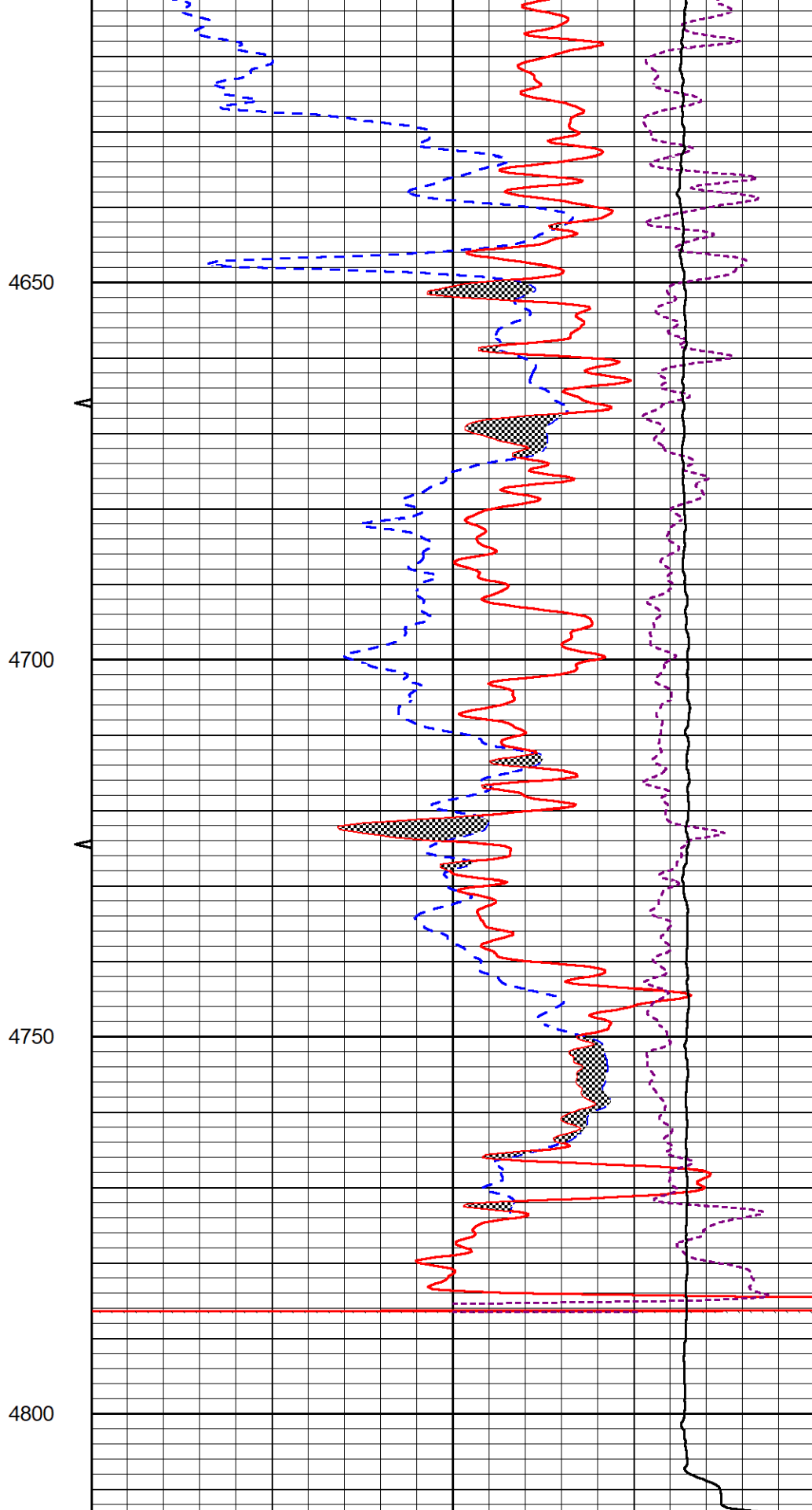








0 Gamma Ray (GAPI) 150
6 Caliper (in) 16



30 Compensated Neutron (pu) -10
30 Compensated Density (pu) -10
10000 Line Tension (lb) 0

-0.25 Correction (g/cc) 0.25



MIDWEST WIRELINE

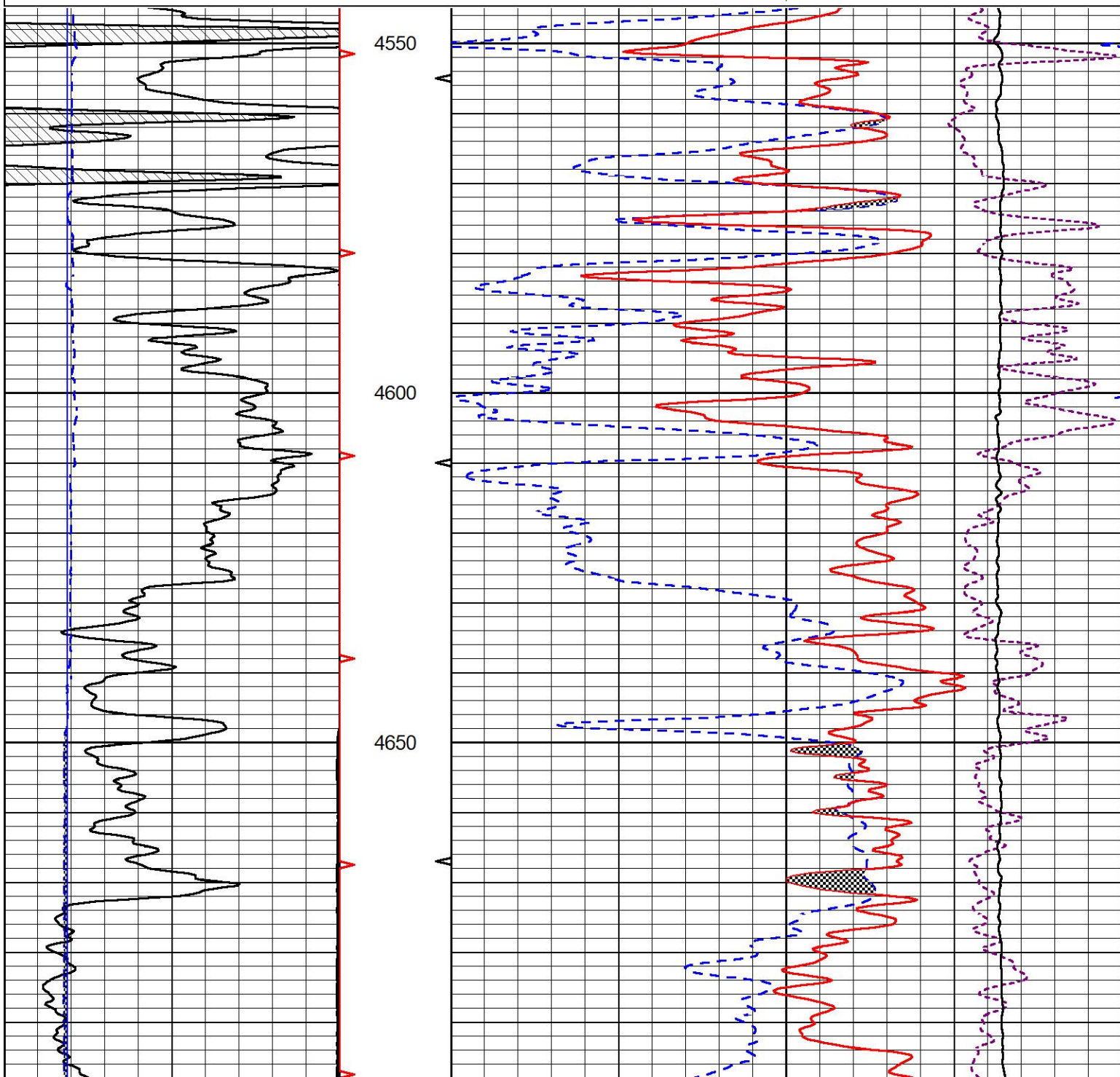
REPEAT SECTION

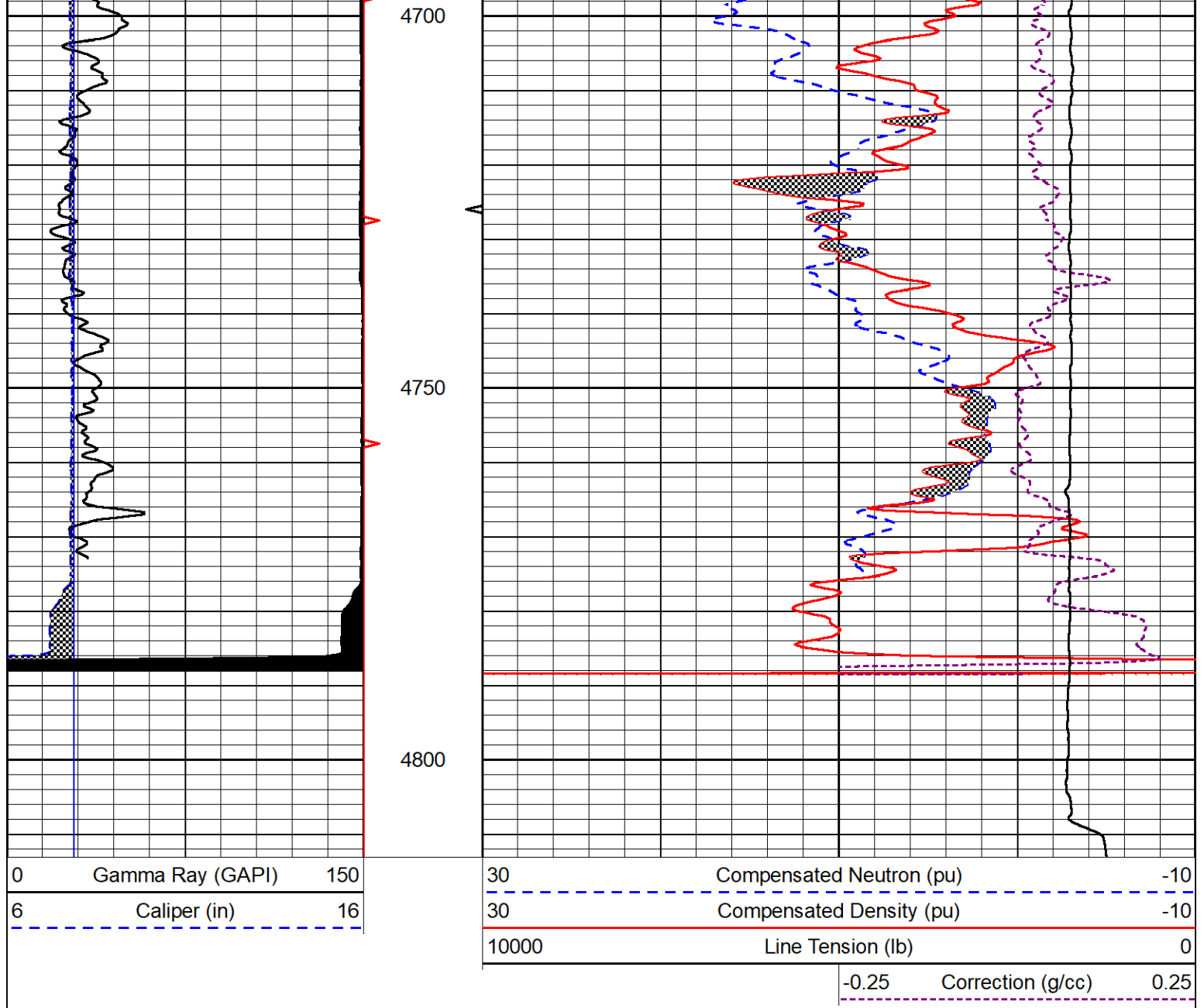
REPEAT PASS

Database File griffin_breanna #5.db
Dataset Pathname StkMI/pass2.1
Presentation Format _CNDLS~1
Dataset Creation Thu Aug 04 01:58:43 2022
Charted by Depth in Feet scaled 1:240

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

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





Calibration Report

Database File griffin_breanna #5.db
 Dataset Pathname StkMI/pass3.1
 Dataset Creation Thu Aug 04 02:40:51 2022

Dual Induction Calibration Report

Serial-Model: 507-M&W
 Surface Cal Performed: Wed Aug 3 13:14:16 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	82.972	482.449	0.000	255.800	mmho/m	0.590	-33.130
Medium	120.285	668.174	0.000	255.800	mmho/m	0.517	-63.500

Microlog Calibration Report

Serial-Model: 402-PSIML
 Performed: Sun Jul 17 13:11:21 2022

Readings				References		Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0000	1.0000		0.0000	1.0000	Ohm-m	21000.0000
Inverse	0.0000	1.0000		0.0000	1.0000	Ohm-m	24000.0000
Caliper	1.0052	1.0858		5.0000	16.5000	in	65.0000
Compensated Density Calibration Report							
Serial-Model:				302-02-M&W			
Source #:				20762B			
Master Calibration Performed:				Wed Jun 22 01:19:51 2022			
Master Calibration							
	Density			Far Detector		Near Detector	
Magnesium	1.755	g/cc		4422.04		6163.44	cps
Aluminum	2.665	g/cc		835.14		3912.91	cps
Spine Angle = 74.75				Density/Spine Ratio = 0.527			
	Size			Reading			
Small Ring	8.00	in		0.53			
Large Ring	30.00	in		0.60			
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



Company	Griffin Management LLC
Well	Breanna #5
Field	
County	Barber
State	Kansas