MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Griffin Management LLC
Well Griffyn #2
Field Moffett West
County Barber State Kansas

Location: API # : 15-007-24448-00-00
SW SE NE SE
1493 FSL & 416 FEL
SEC 8 TWP 30S RGE 15W

Other Services
DIL/MEL

Elevation
K.B. 1950
D.F.
G.L. 1938

Permanent Datum Ground Level Elevation 1938
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Company Griffin Management LLC
Well Griffyn #2
Field Moffett West
County Barber
State Kansas

Date	12/18/2022						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	4810						
Depth Logger	4820						
Bottom Logged Interval	4791						
Top Logged Interval	2800						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	7700						
Density	9.3						
Level	Full						
Max. Rec. Temp. F	124						
Operating Rig Time	3 Hours						
Equipment -- Location	P-24 Hays						
Recorded By	T. Martin						
Witnessed By	Eli Felts						

Borehole Record

Run No.	Bit	From	To
One	12.25	00	263
Two	7.875	263	TD

Casing Record

Size	Wgt.	From	To
8.625	23	00	263

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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 Blktp, S to Y, E to coral,
S-SW to Alexa #2, E to location

Log Measured From: Kelly Bushing 12 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew	This Log Record Was Witnessed By
Engineer: T. Martin	Primary Witness: Eli Felts
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb

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	37.23		CNT-M&W (207-MW)	5.00	3.50	100.00
CNSSC	36.48					
			CDL-M&W (307-08)	8.50	4.00	250.00
LSD	28.18					
DCAL	28.17					
SSD	27.68					
			ML-PSIML (401)	7.58	4.00	65.00
MCAL	19.58					
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					
			DIL-M&W (502 HT)	18.25	3.50	220.00
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset:	griffin_griffyn #2.db: field/well/StkMl/pass3.1
Total length:	42.33 ft
Total weight:	685.00 lb
O.D.:	4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\griffin_griffyn #2.db
Dataset field/well/StkMl/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	124	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	0	0	15	40	Off	4820

Variable Description

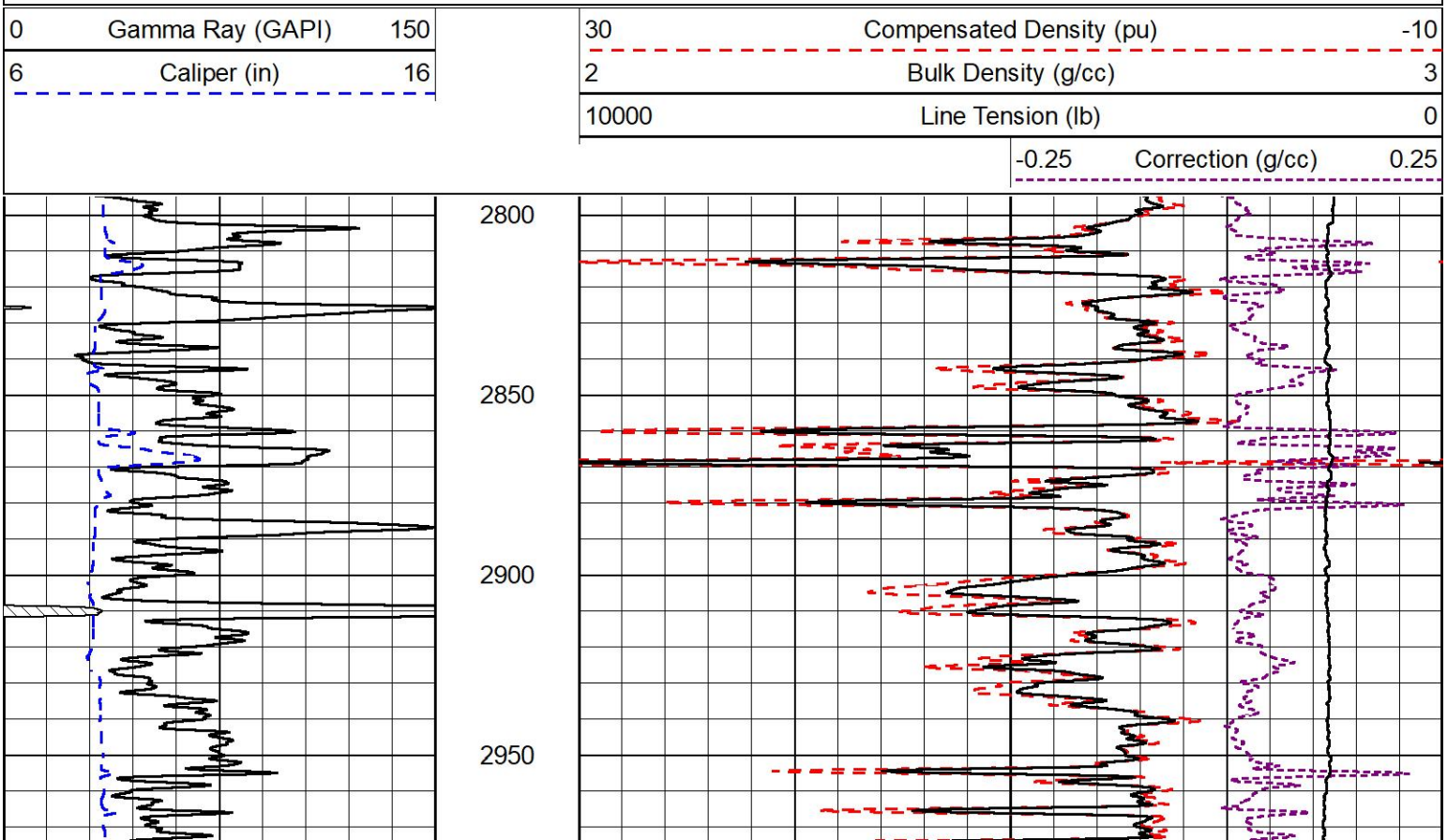
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

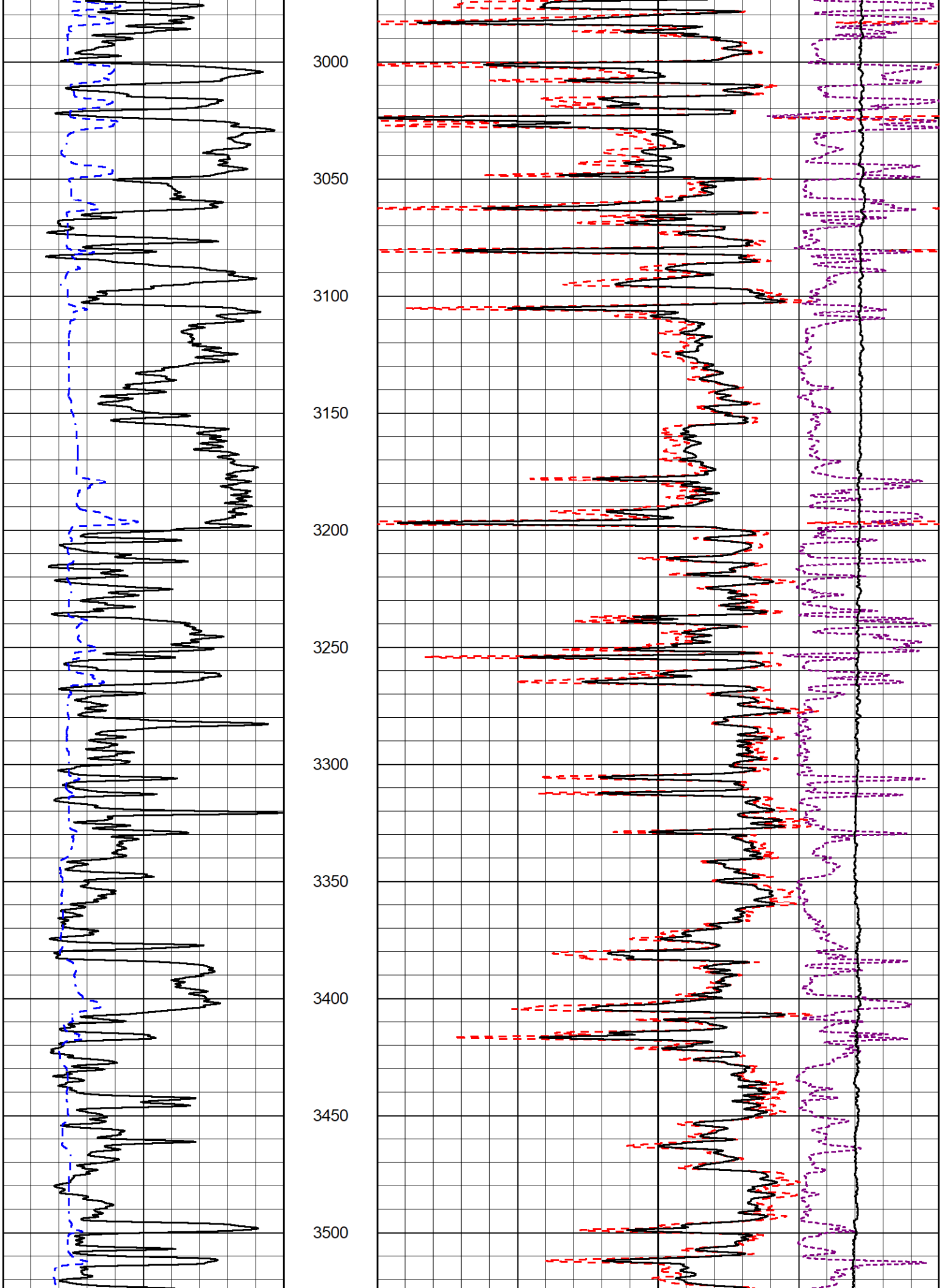
MIDWEST WIRELINE

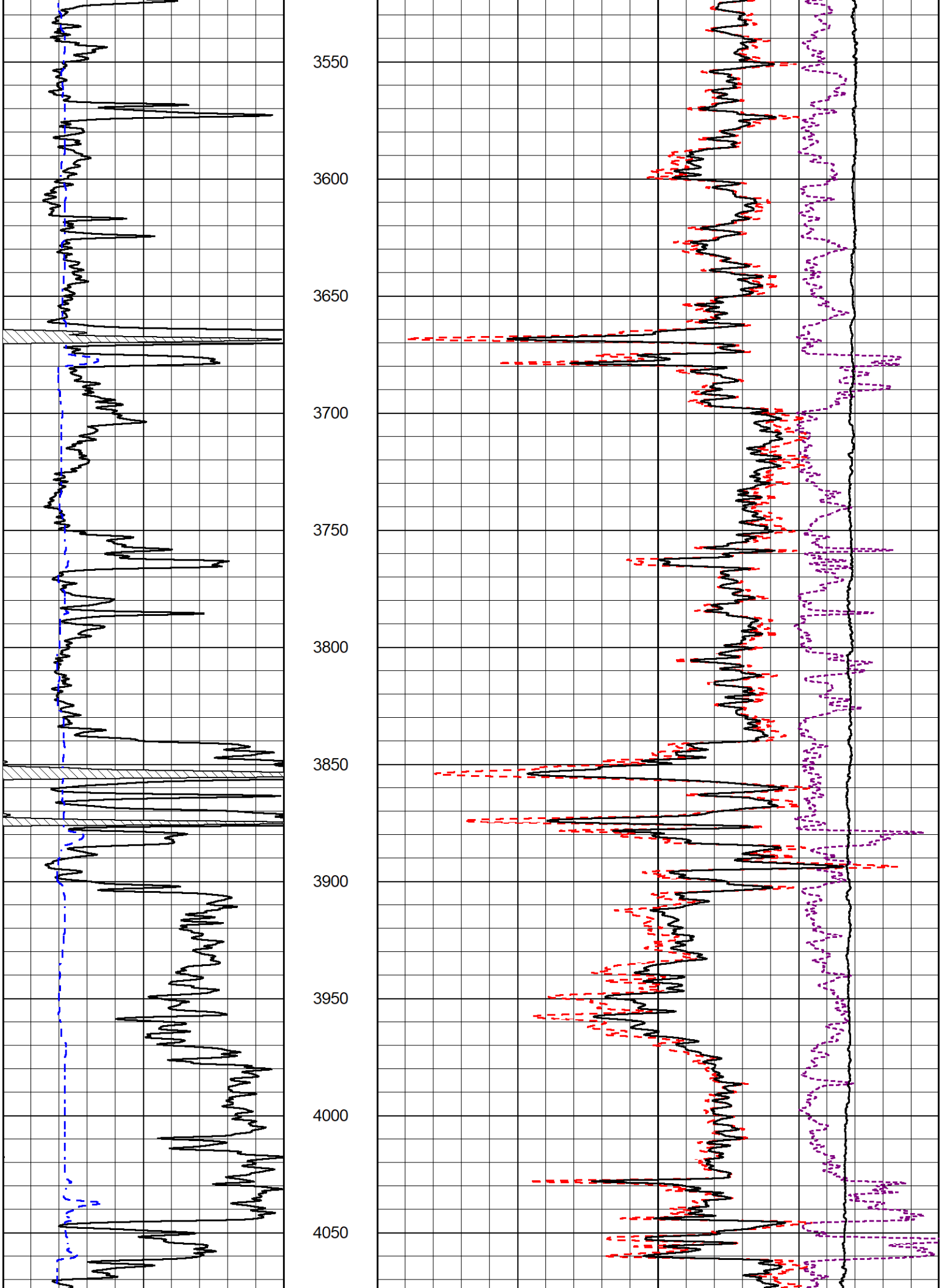
2" SCALE BULK DENSITY

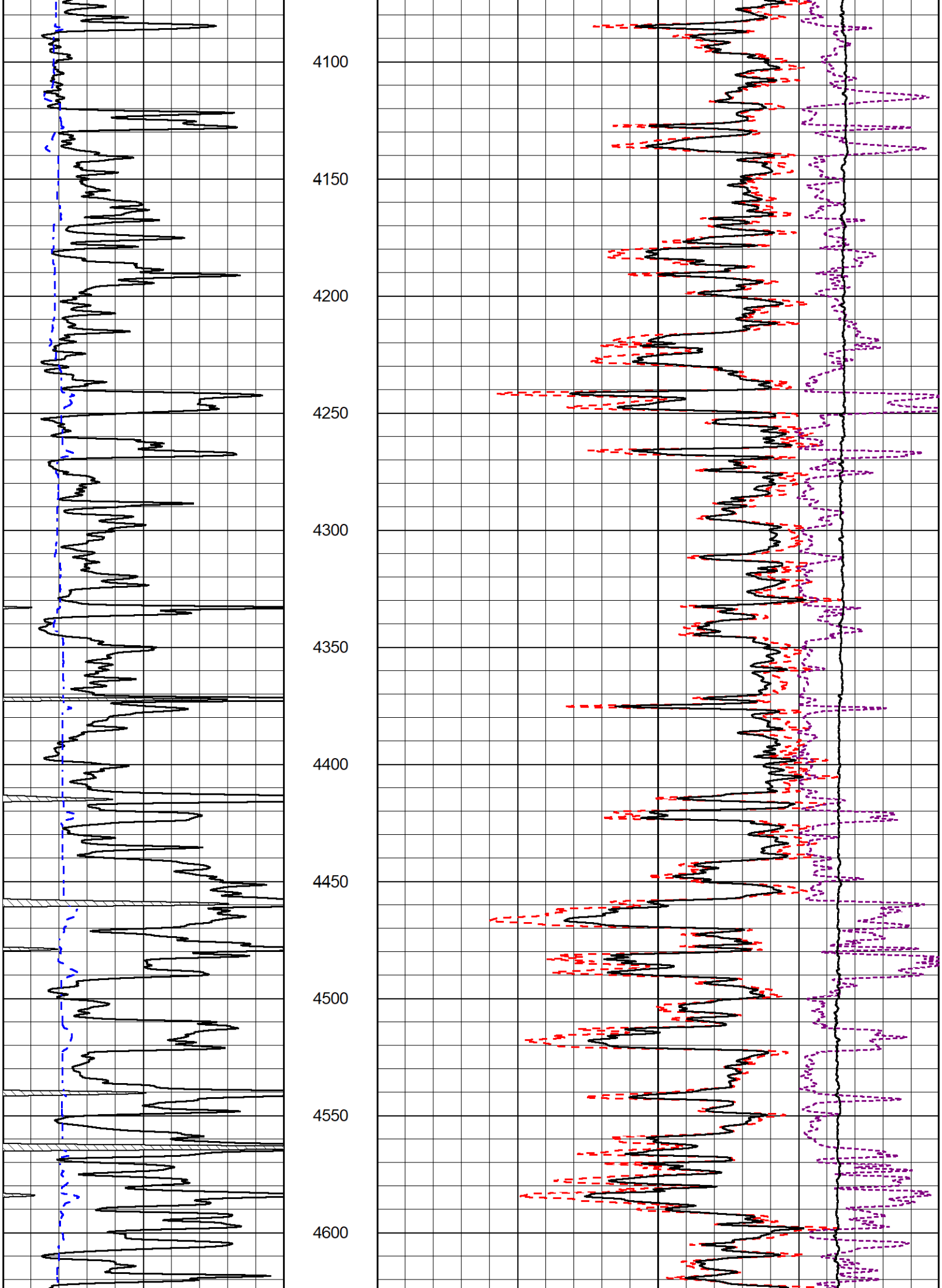
MAIN PASS

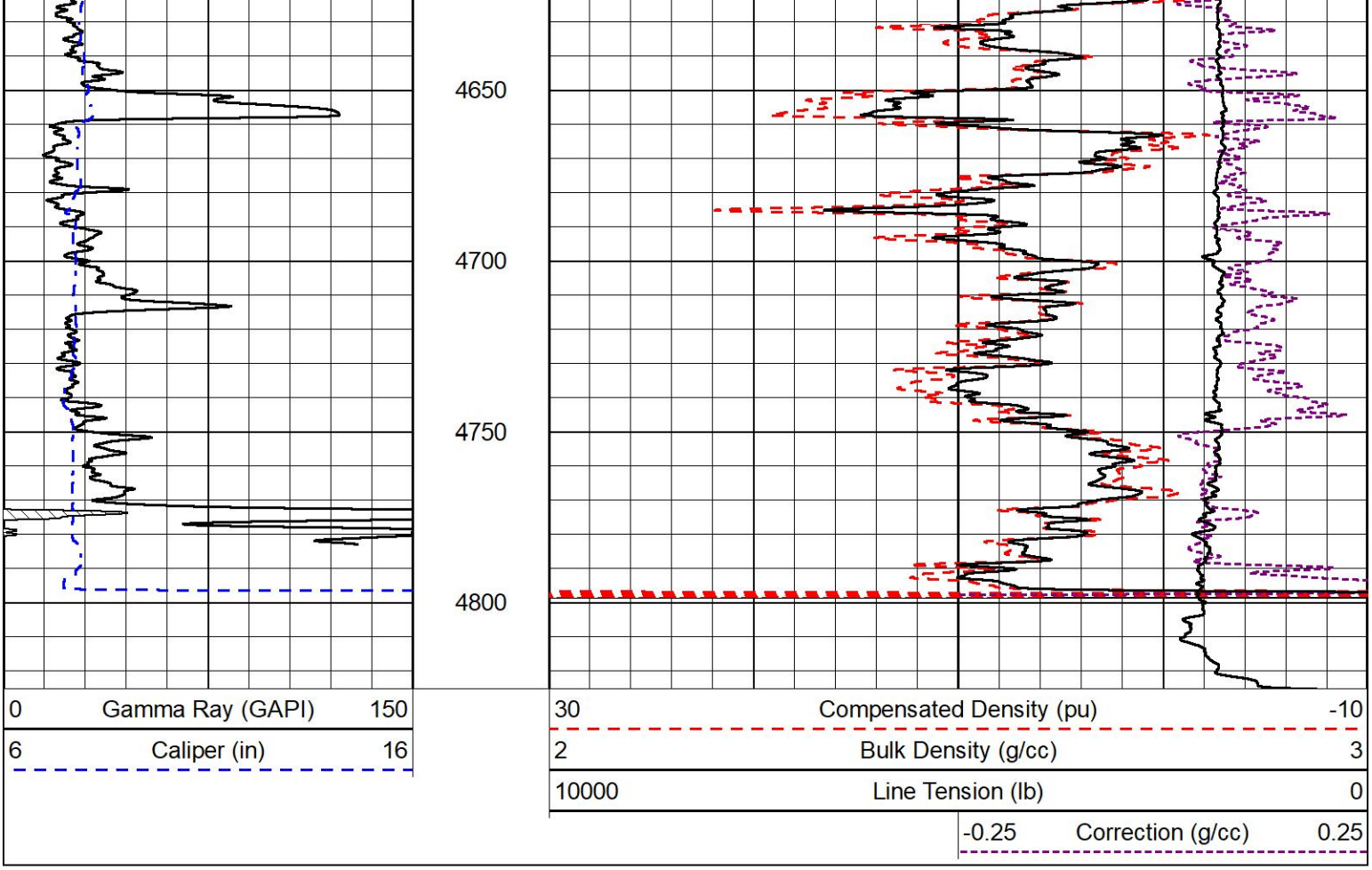
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Dataset Pathname	StkMl/pass3.3
Presentation Format	_cdl
Dataset Creation	Sun Dec 18 17:55:34 2022
Charted by	Depth in Feet scaled 1:600




3000
3050
3100
3150
3200
3250
3300
3350
3400
3450
3500


3550
3600
3650
3700
3750
3800
3850
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4450
4500
4550
4600

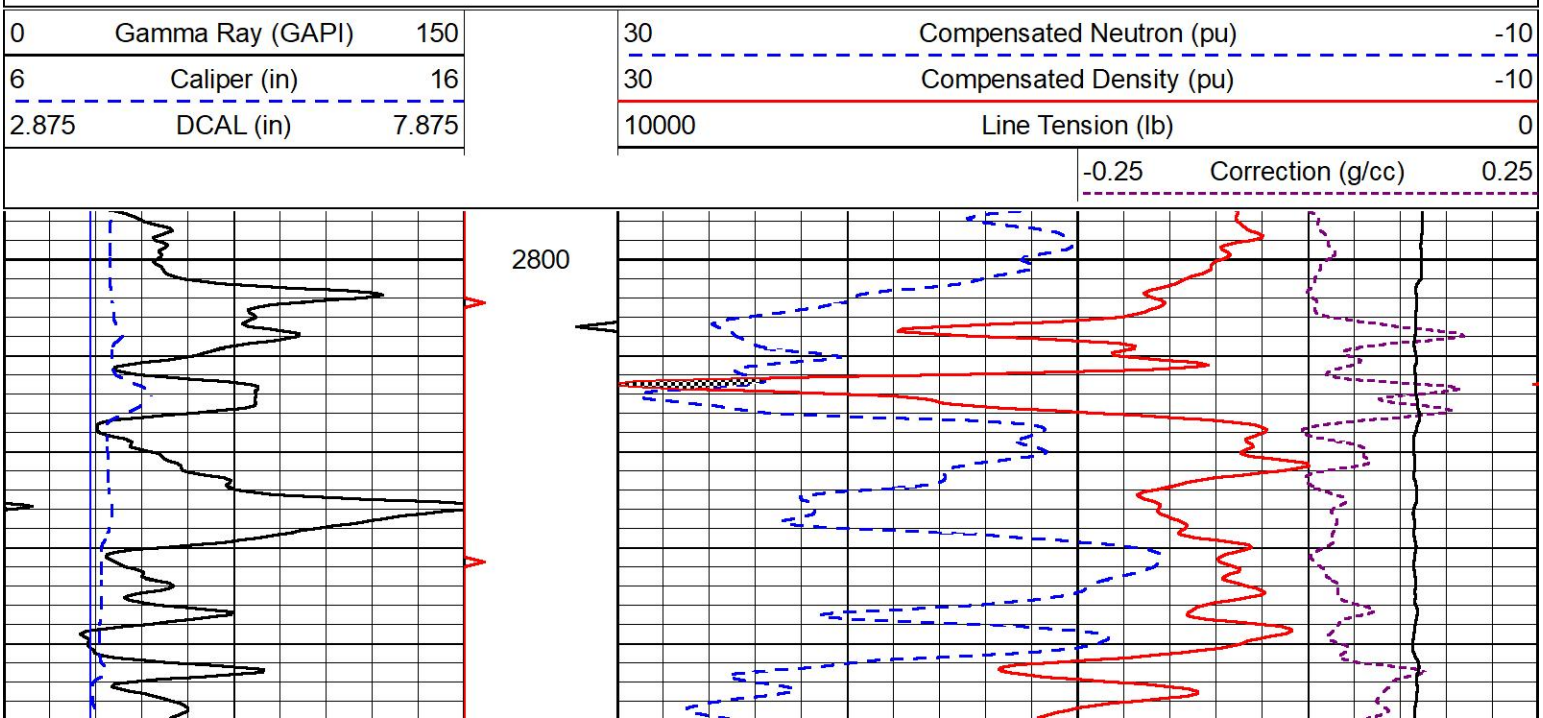


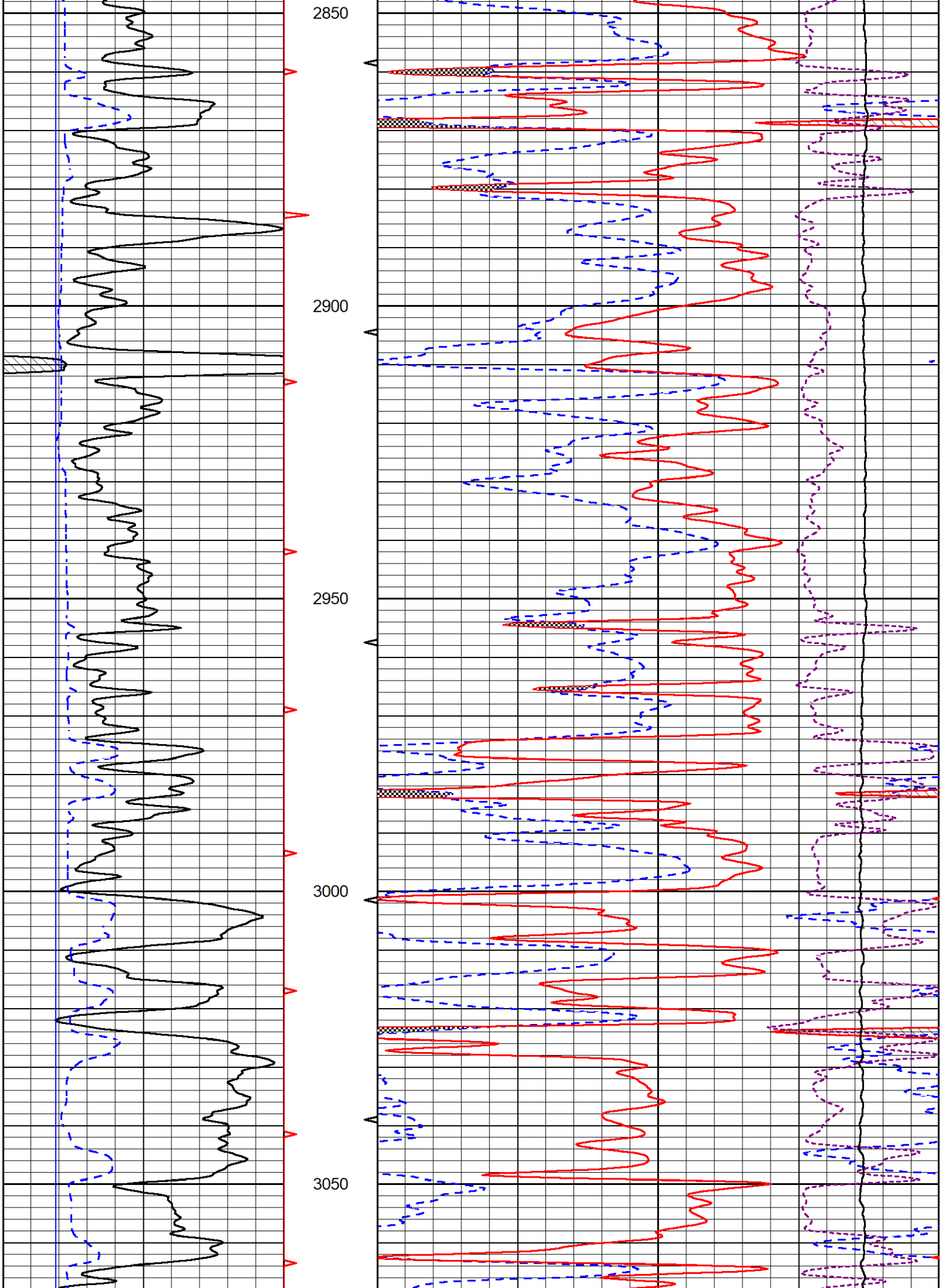
MIDWEST WIRELINE

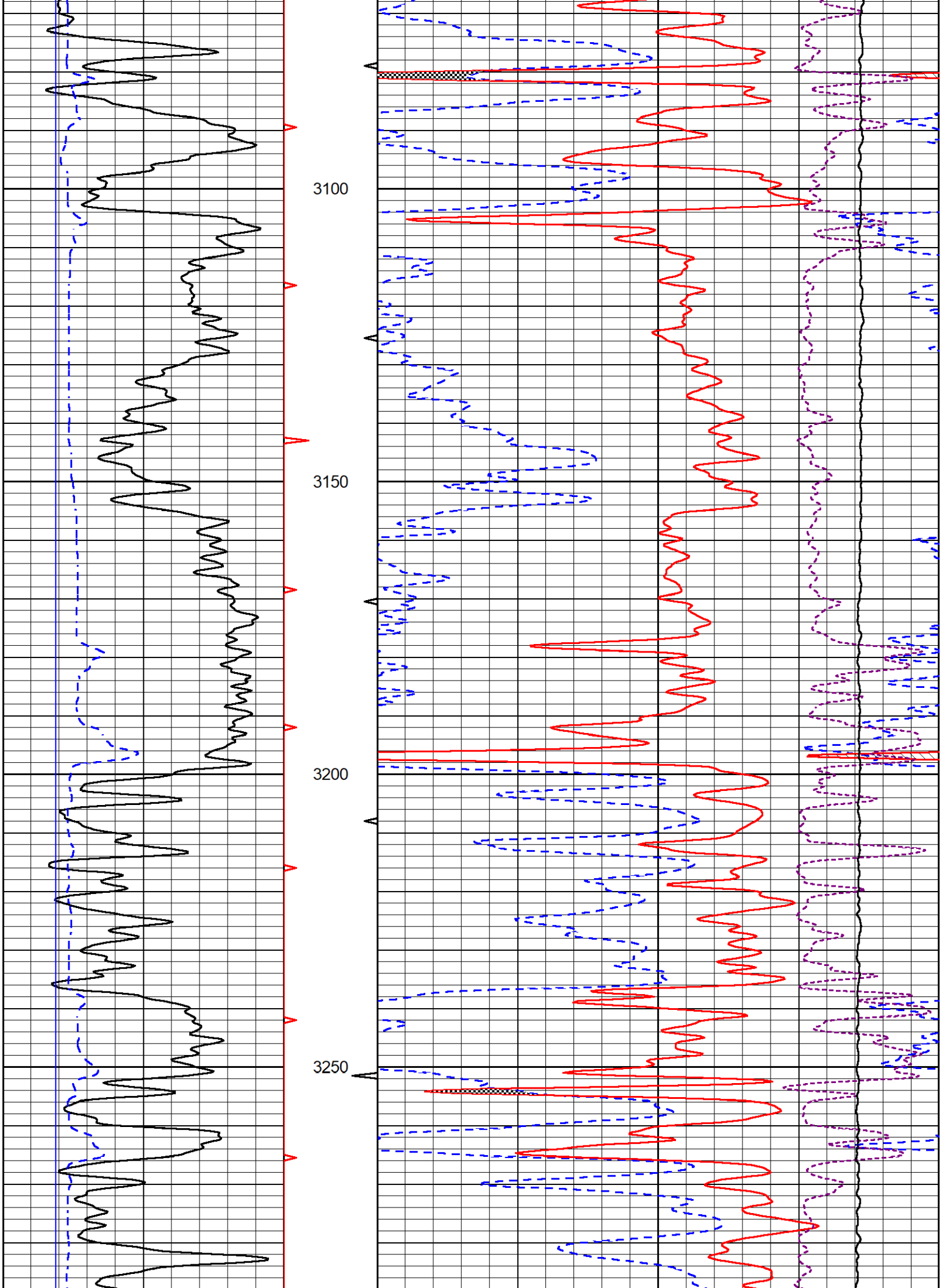
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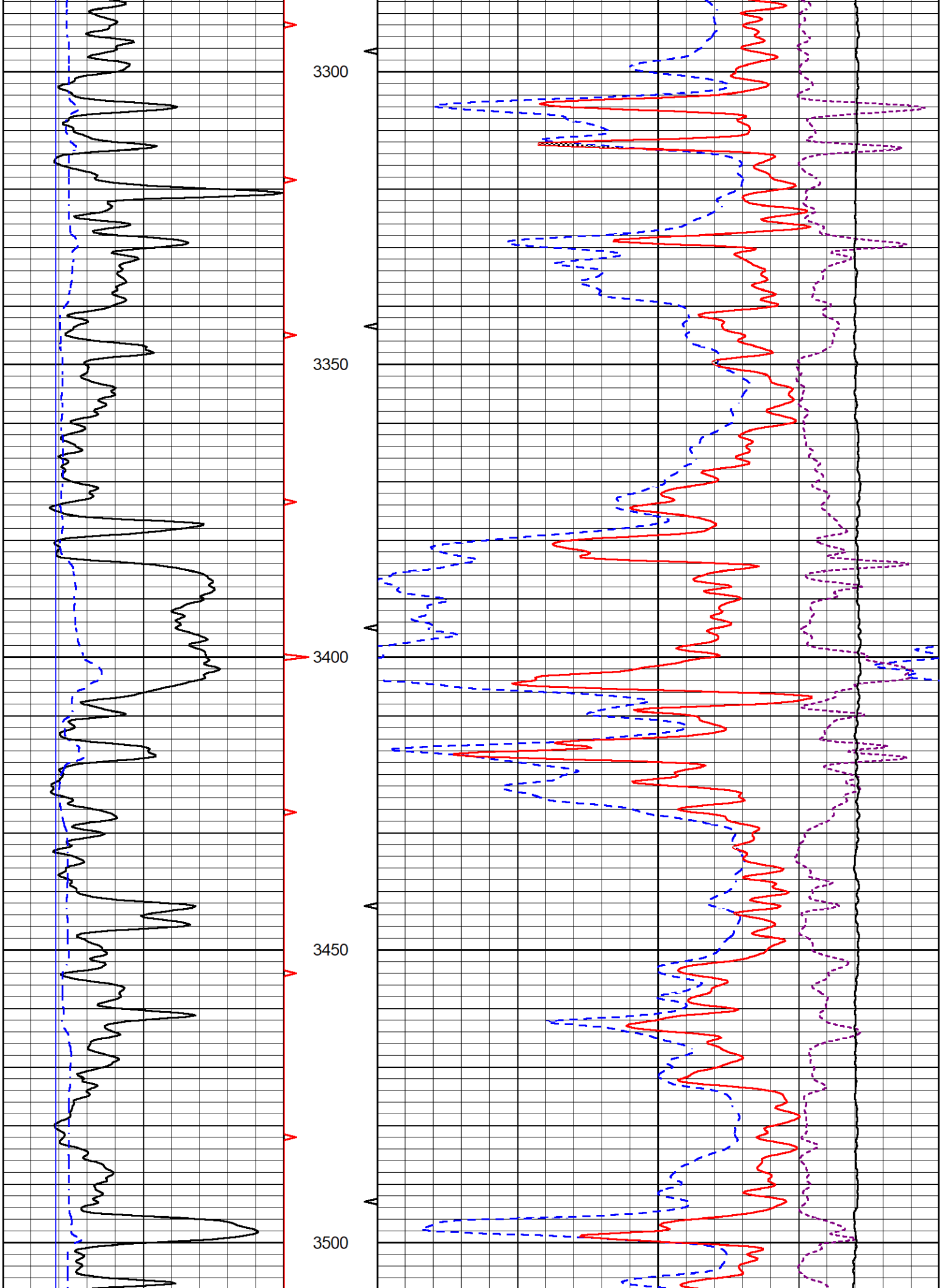
MAIN PASS

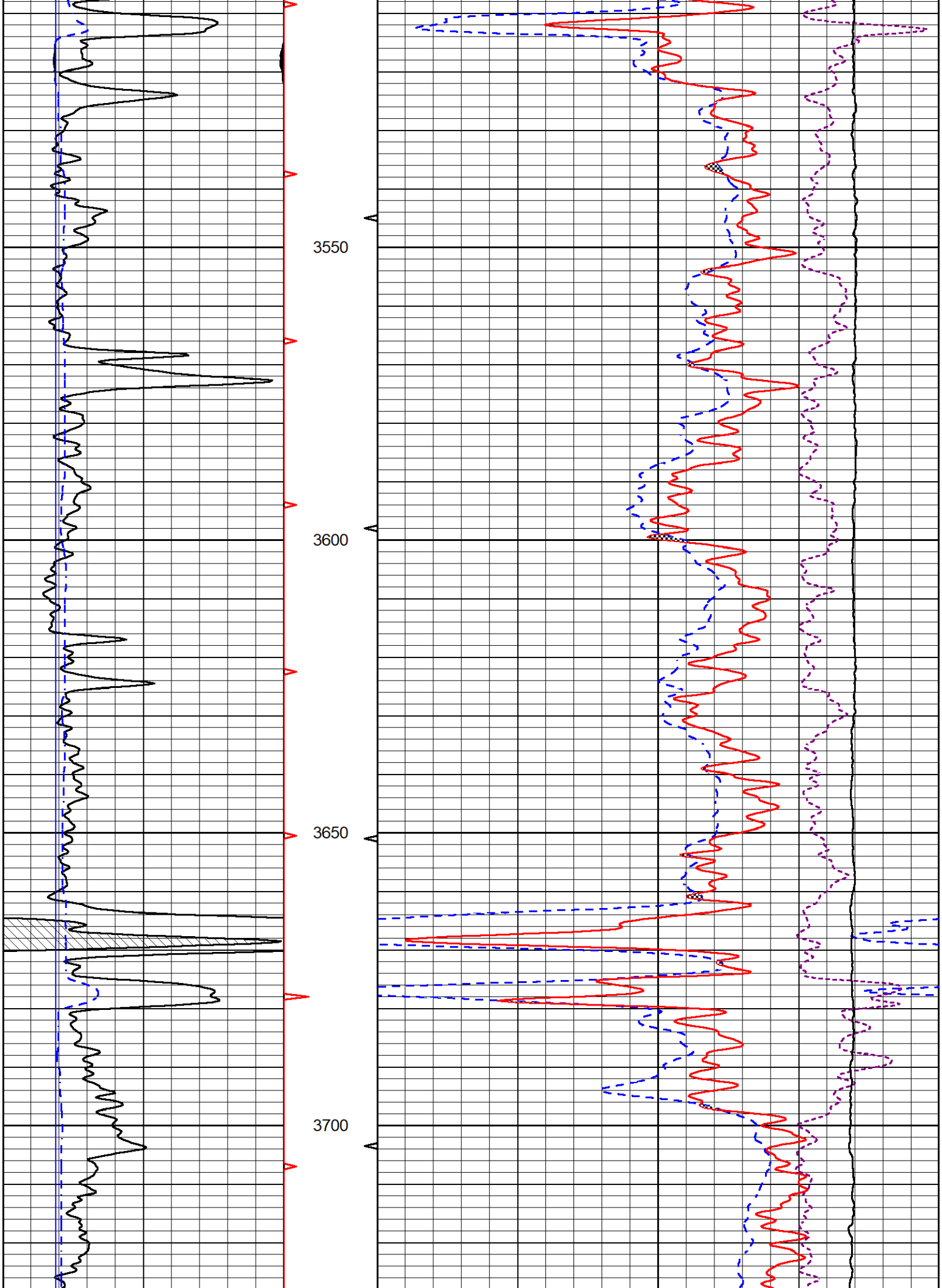
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Dataset Pathname	StkMI/pass3.1
Presentation Format	_CNDLS~1
Dataset Creation	Sun Dec 18 18:22:25 2022
Charted by	Depth in Feet scaled 1:240

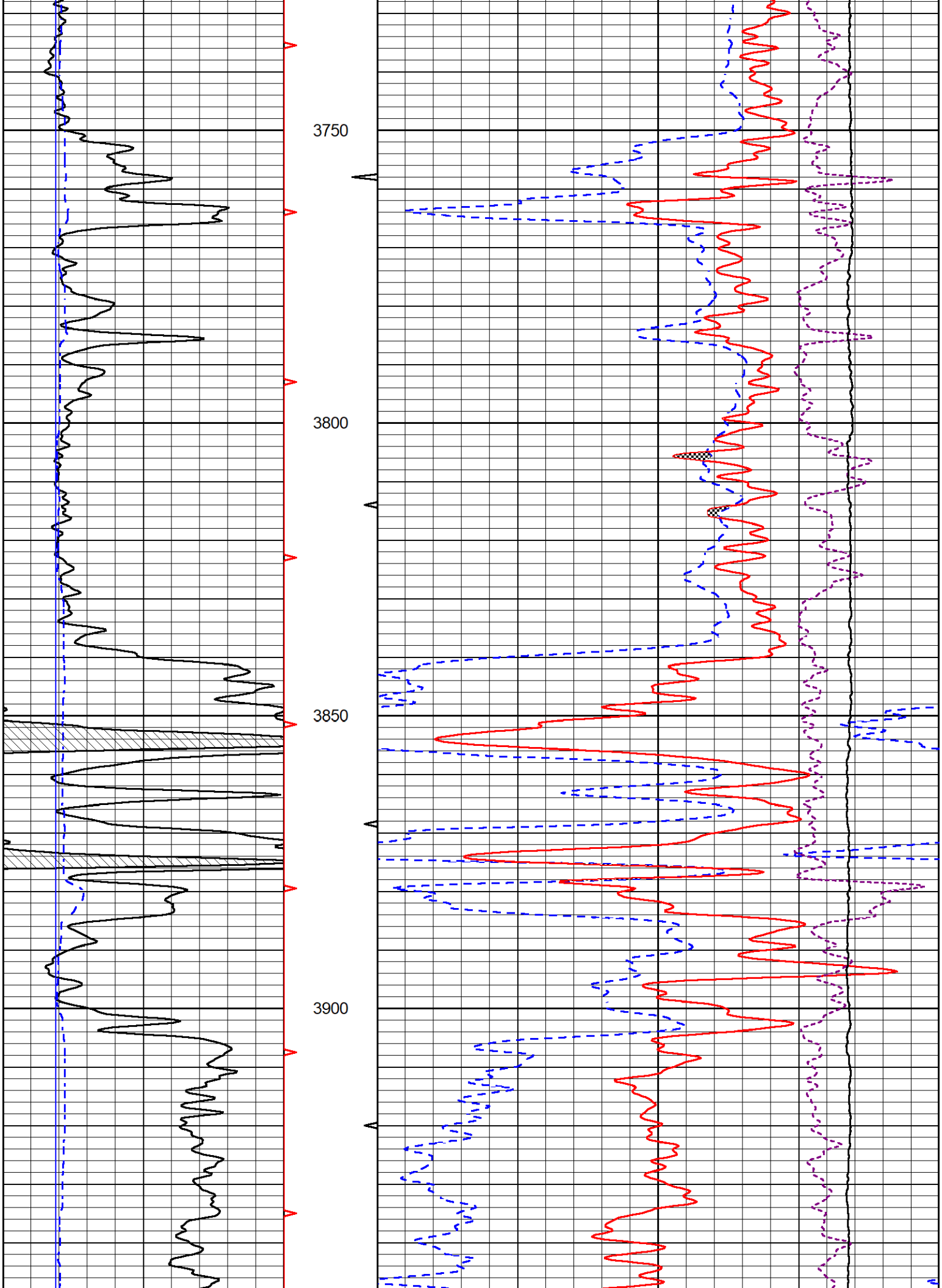


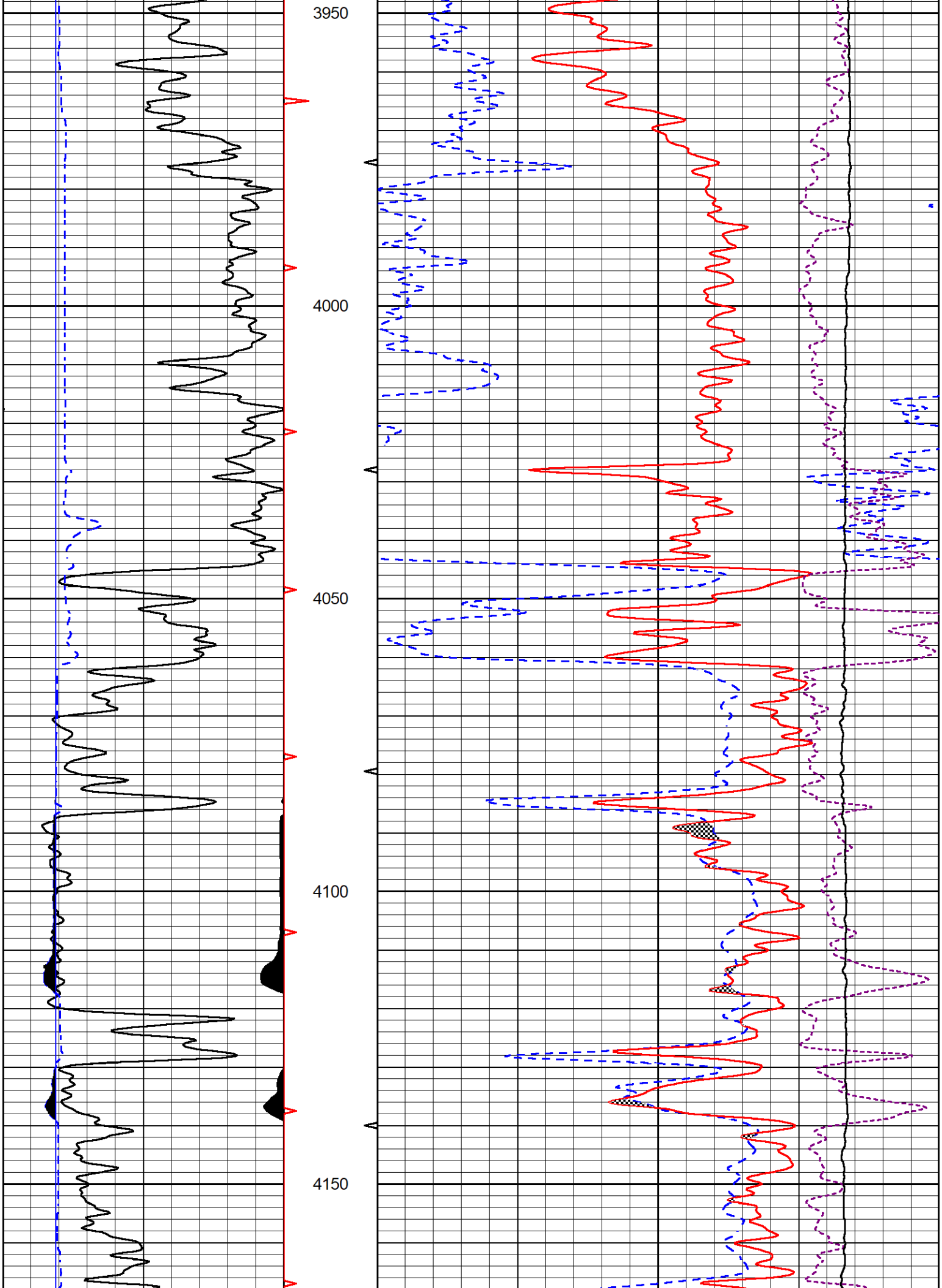

2850
2900
2950
3000
3050

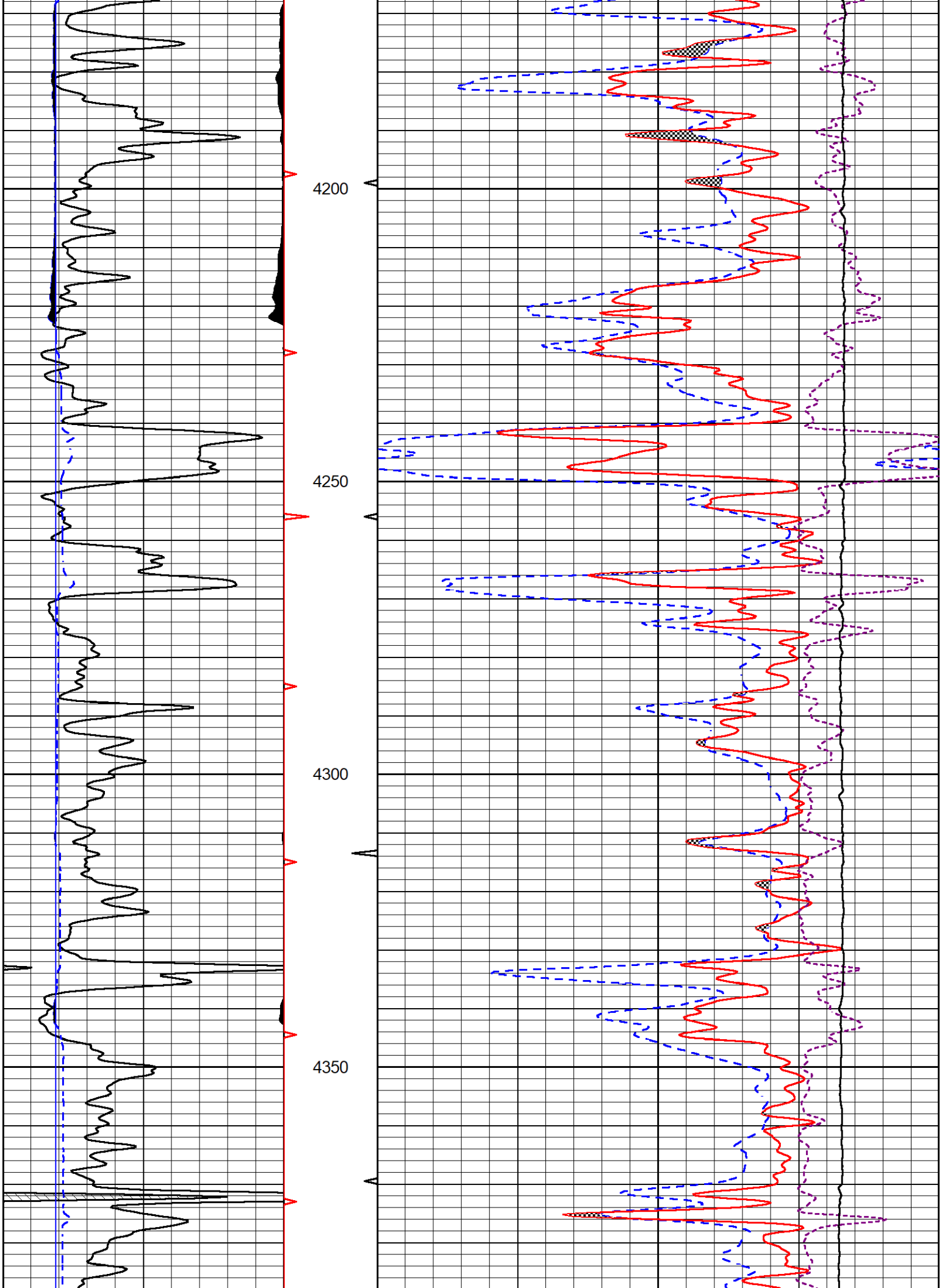

3100
3150
3200
3250

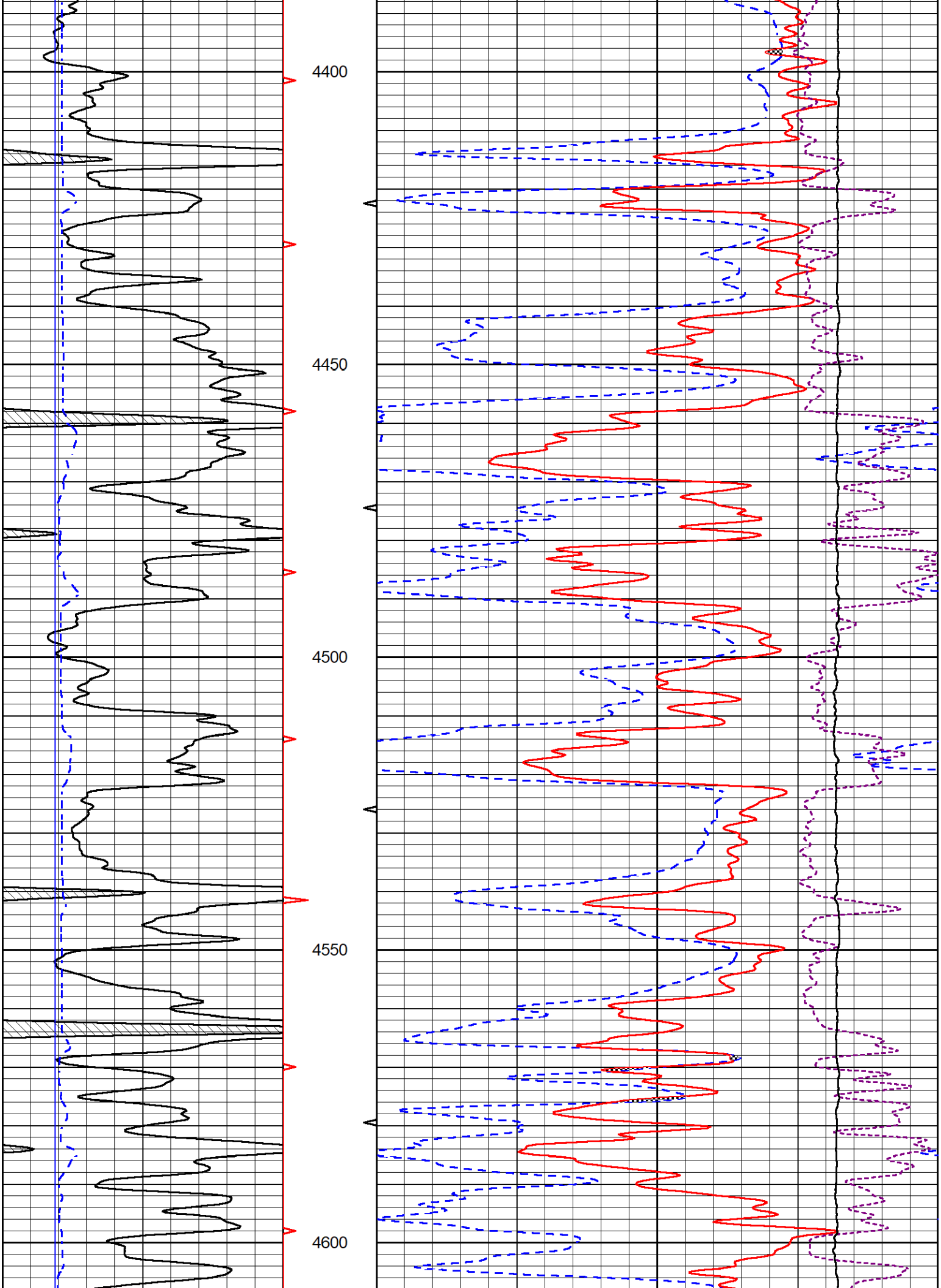

3300
3350
3400
3450
3500

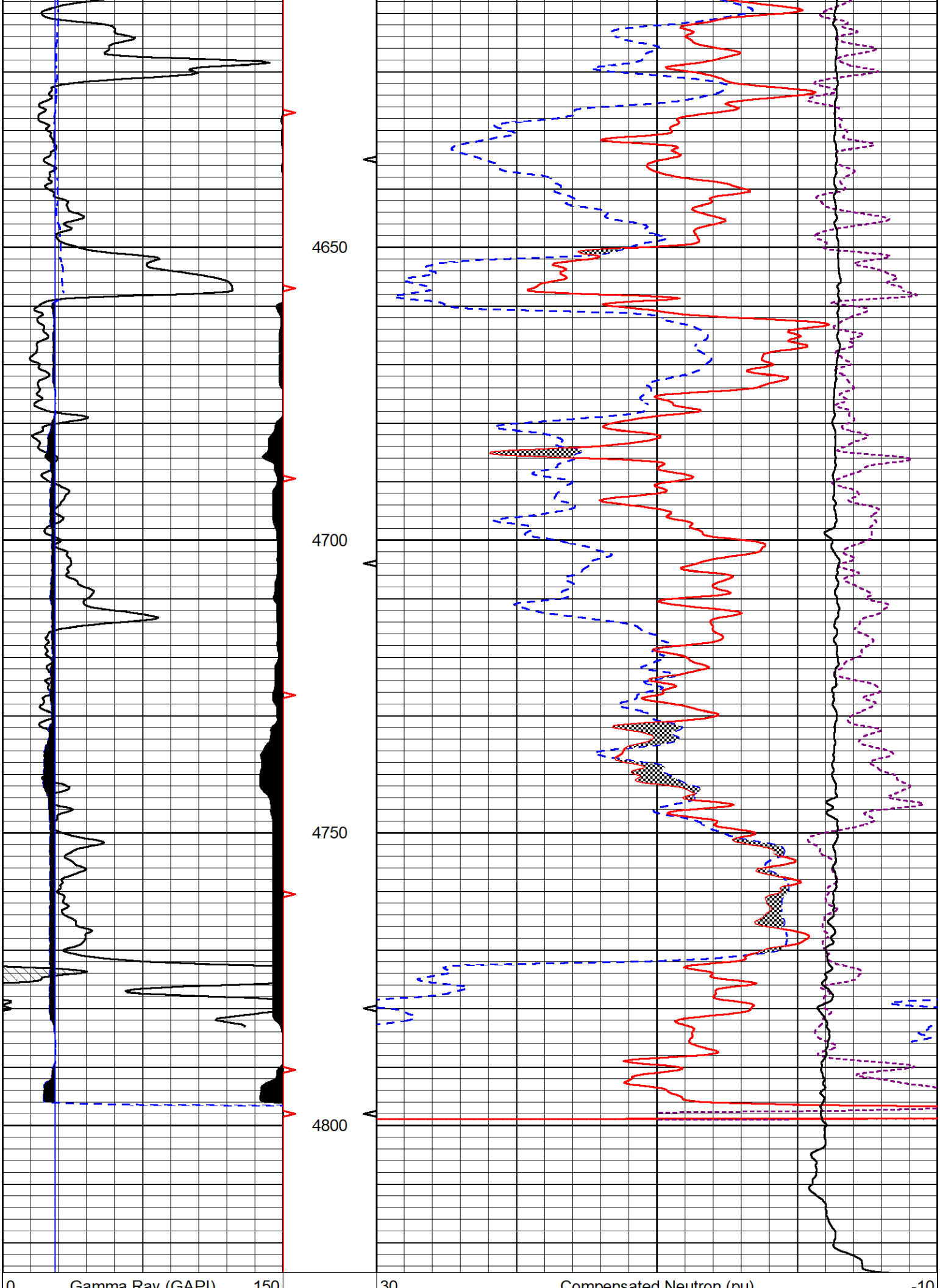

3550
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3750
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3950
4000
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4100
4150


4200
4250
4300
4350


4400
4450
4500
4550
4600


4650
4700
4750
4800
0
Gamma Ray (GAPI)
150
30
Compensated Neutron (pu)
-10

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

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

MIDWEST WIRELINE

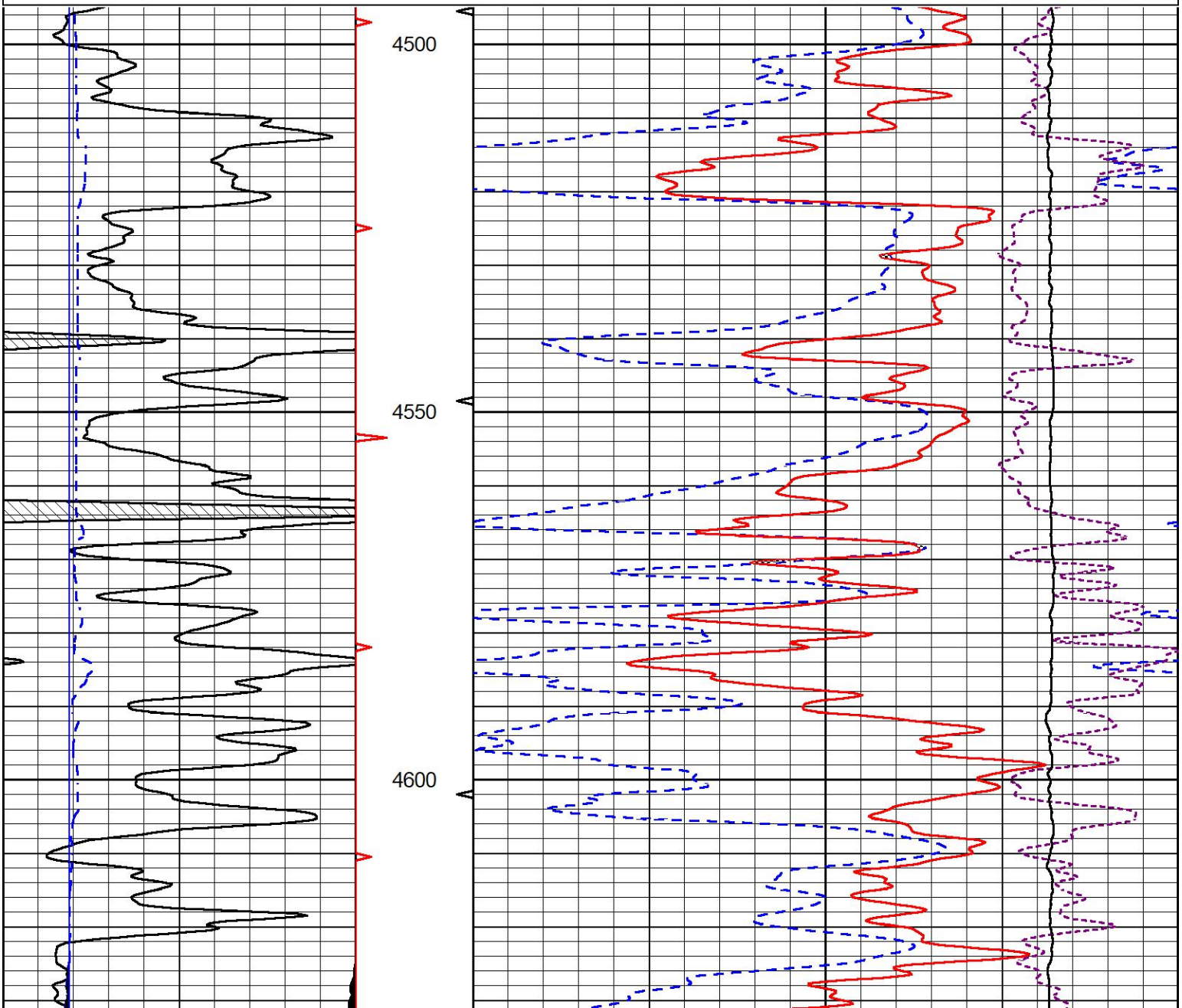
REPEAT SECTION

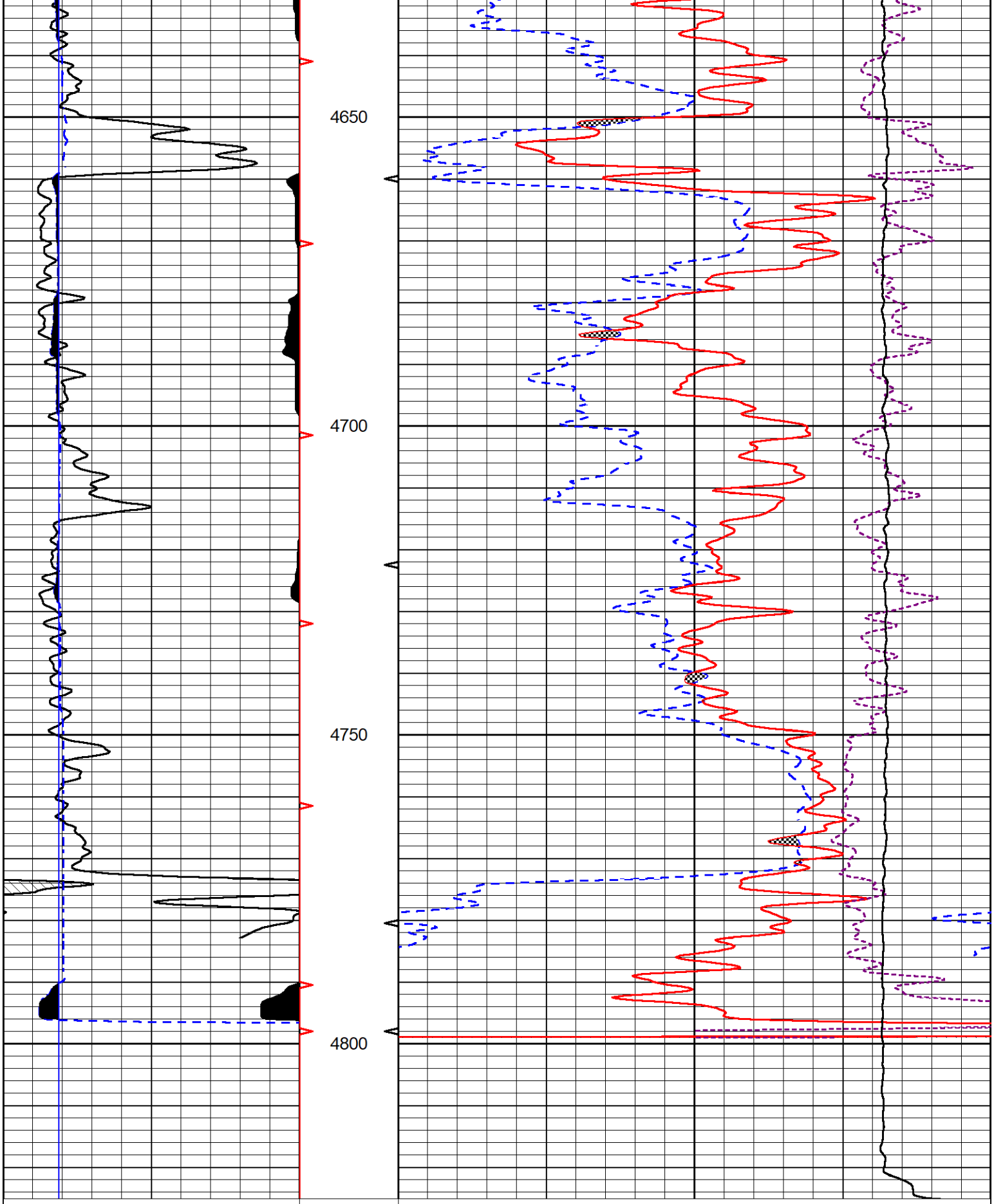
REPEAT PASS

Database File	griffin_griffyn #2.db
Dataset Pathname	StkMI/pass2.1
Presentation Format	_CNDLS~1
Dataset Creation	Sun Dec 18 17:36:03 2022
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	DCAL (in)	7.875

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




4650
4700
4750
4800
0 Gamma Ray (GAPI) 150
6 Caliper (in) 16
2.875 DCAL (in) 7.875
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_griffyn #2.db
Dataset Pathname	StkMl/pass3.1
Dataset Creation	Sun Dec 18 18:22:25 2022

Dual Induction Calibration Report

Serial-Model:	502 HT-M&W
Surface Cal Performed:	Tue Dec 6 09:44:10 2022

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	255.800	mmho/m	0.454	-33.000
Medium	113.335	1585.690	0.000	255.800	mmho/m	0.350	-11.000

Microlog Calibration Report

Serial-Model:	401-PSIML
Performed:	Mon Jun 27 17:53:09 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	15000.0000	-1.3000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	14000.0000	-0.5000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-139.5000

Compensated Density Calibration Report

Serial-Model:	307-08-M&W
Source #:	20762B
Master Calibration Performed:	Thu Dec 8 14:11:34 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4131.04	5675.82	cps
Aluminum	2.650	g/cc	781.38	3576.78	cps

Spine Angle = 74.50

Density/Spine Ratio = 0.518

	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

MIDWEST WIRELINE

Company	Griffin Management LLC
Well	Griffyn #2
Field	Moffett West
County	Barber
State	Kansas