MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Griffin Management LLC
Well Gwen #3
Field Moffett Northwest
County Barber State Kansas
Location: API #: 15-007-24451-00-00
SE NW NE SW
2305 FSL & 1700 FWL
SEC 5 TWP 30S RGE 15W

Other Services: DIL/MEL

Elevation: K.B. 1969, D.F., G.L. 1957

Permanent Datum: Ground Level, Elevation 1957
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing

Company Griffin Management LLC
Well Gwen #3
Field Moffett Northwest
County Barber
State Kansas

Date	11/22/2022
Run Number	One
Type Log	CNL/CDL
Depth Driller	4850
Depth Logger	4850
Bottom Logged Interval	4821
Top Logged Interval	2800
Type Fluid In Hole	Chemical
Salinity, PPM CL	9000
Density	9.6
Level	Full
Max. Rec. Temp. F	125
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	260
Two	7.875	260	TD

Casing Record

Size	Wgt.	From	To
8.625	23	00	260

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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.

Pratt, KS, W to Croft Blktp,
S to 'Y', E then N into

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 (305-24)	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_gwen #3.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_gwen #3.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	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	0	40	Off	4850

Variable Description

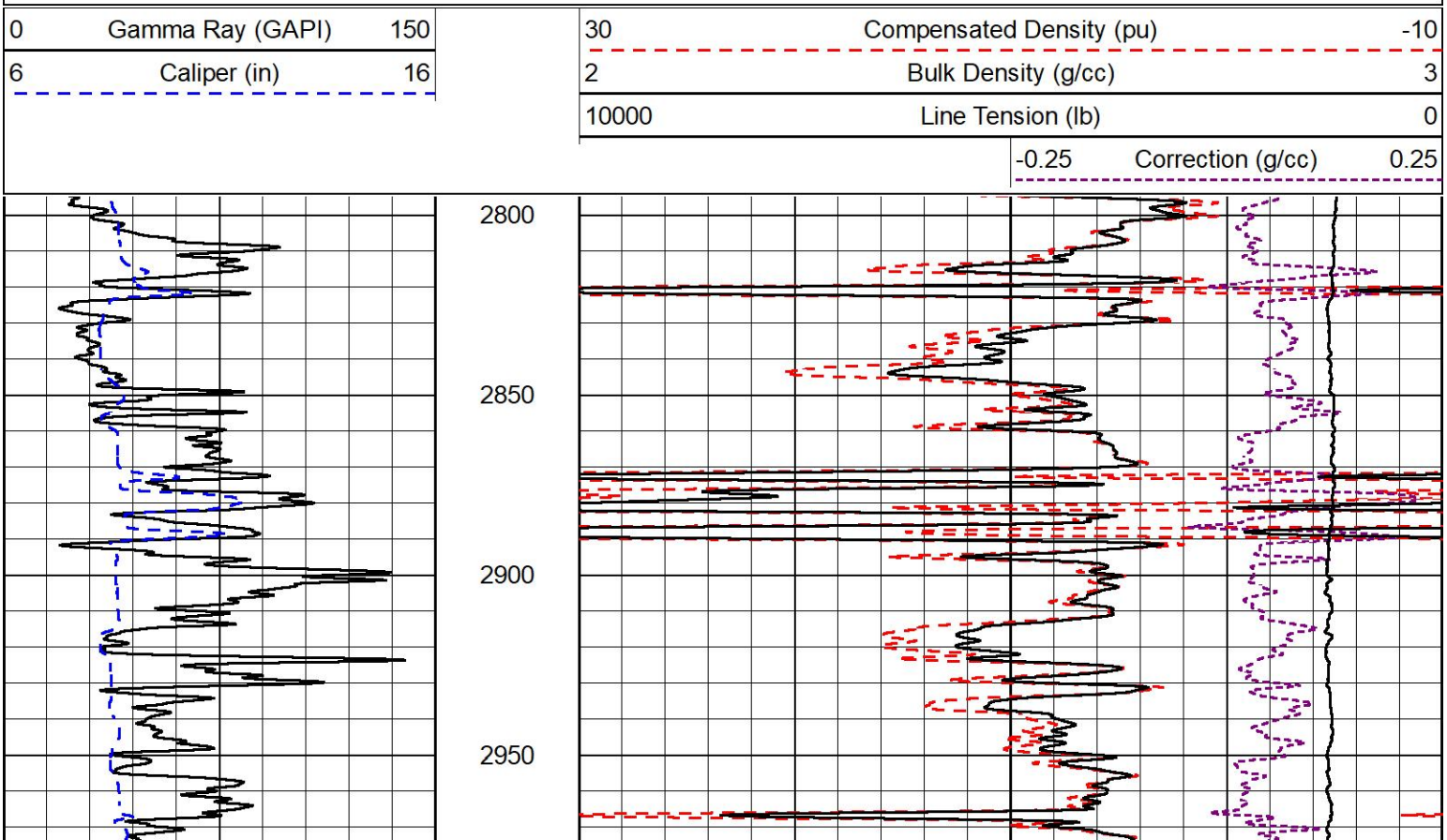
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM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

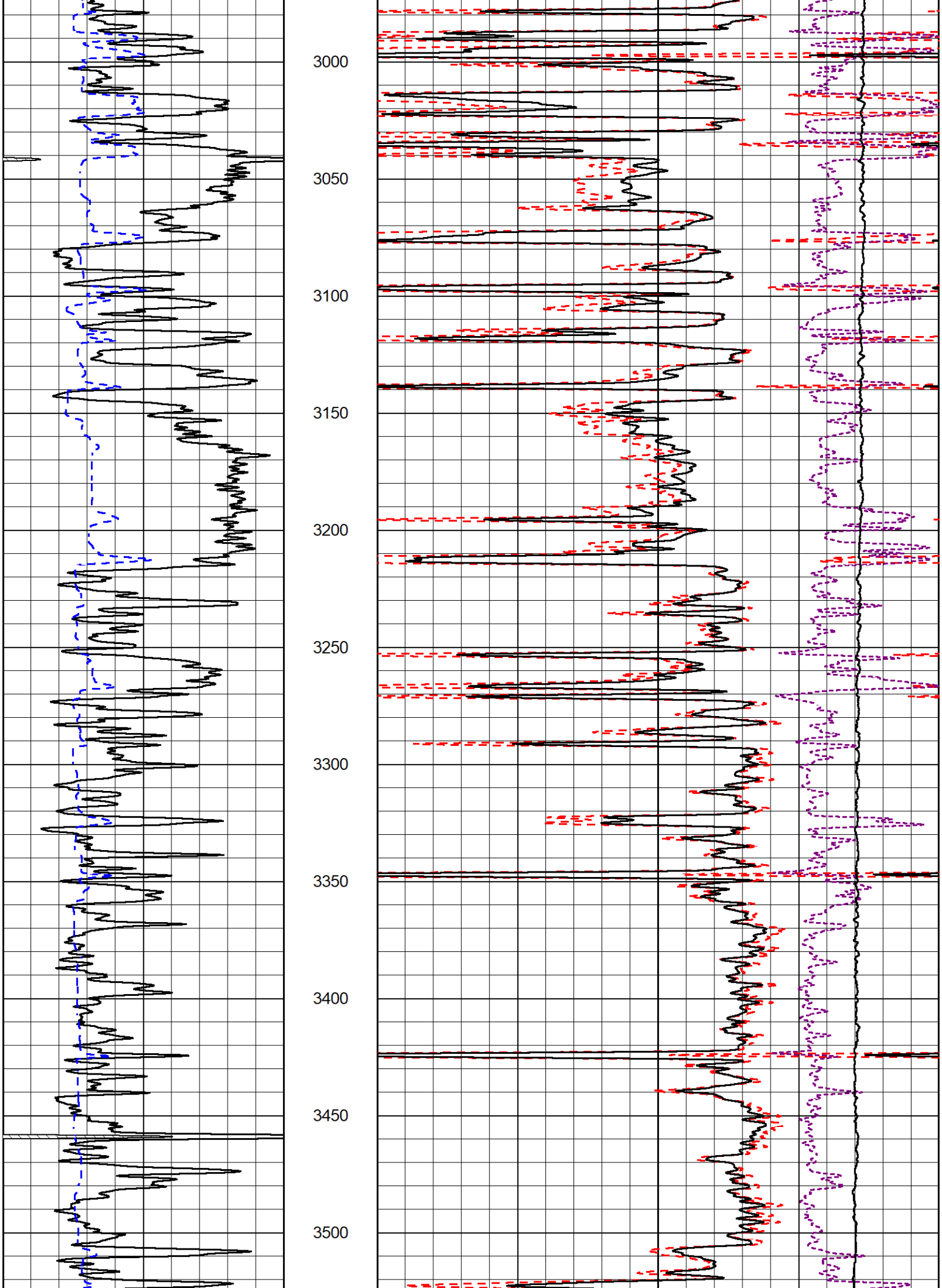
MIDWEST WIRELINE

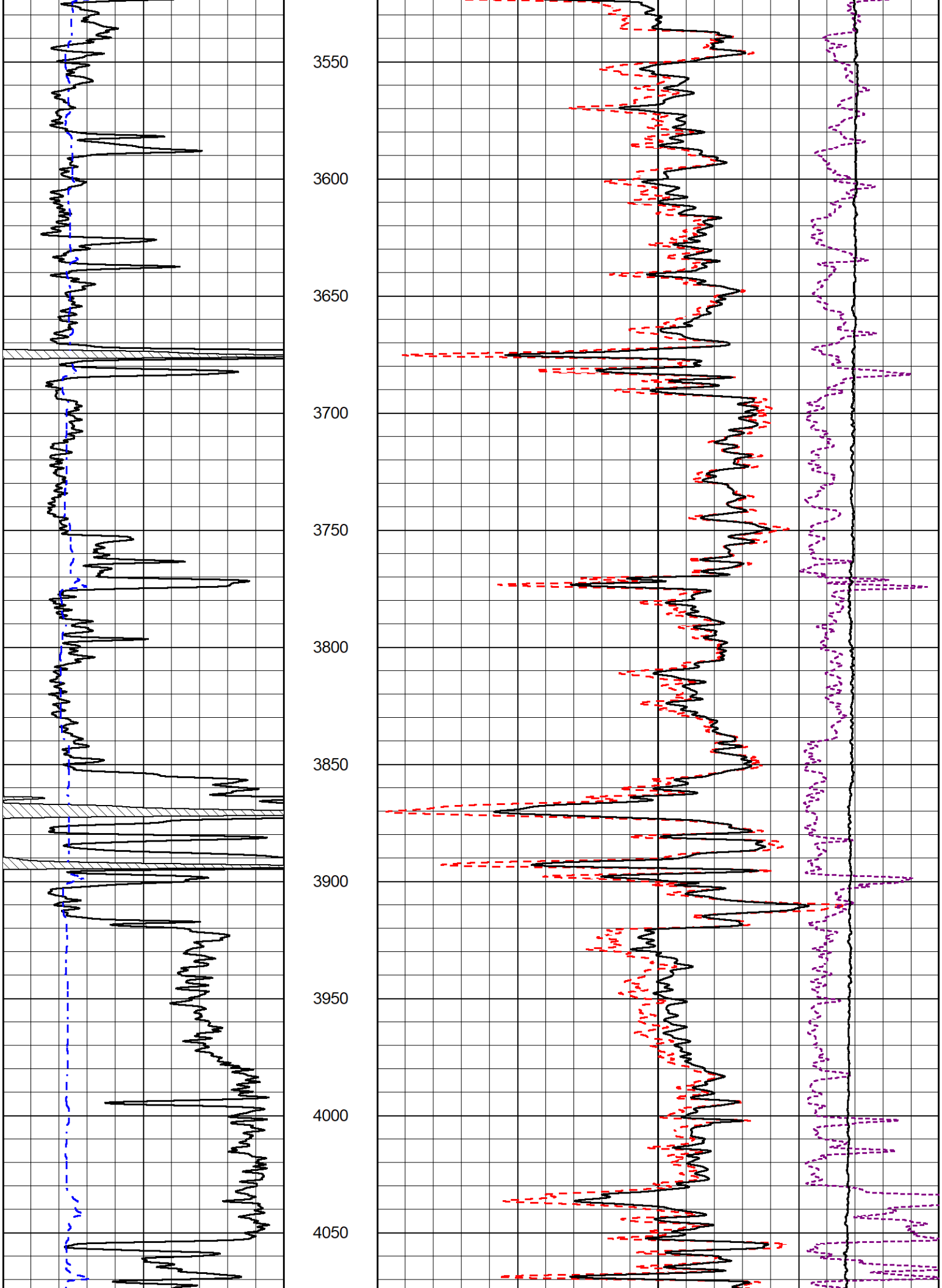
2" SCALE BULK DENSITY

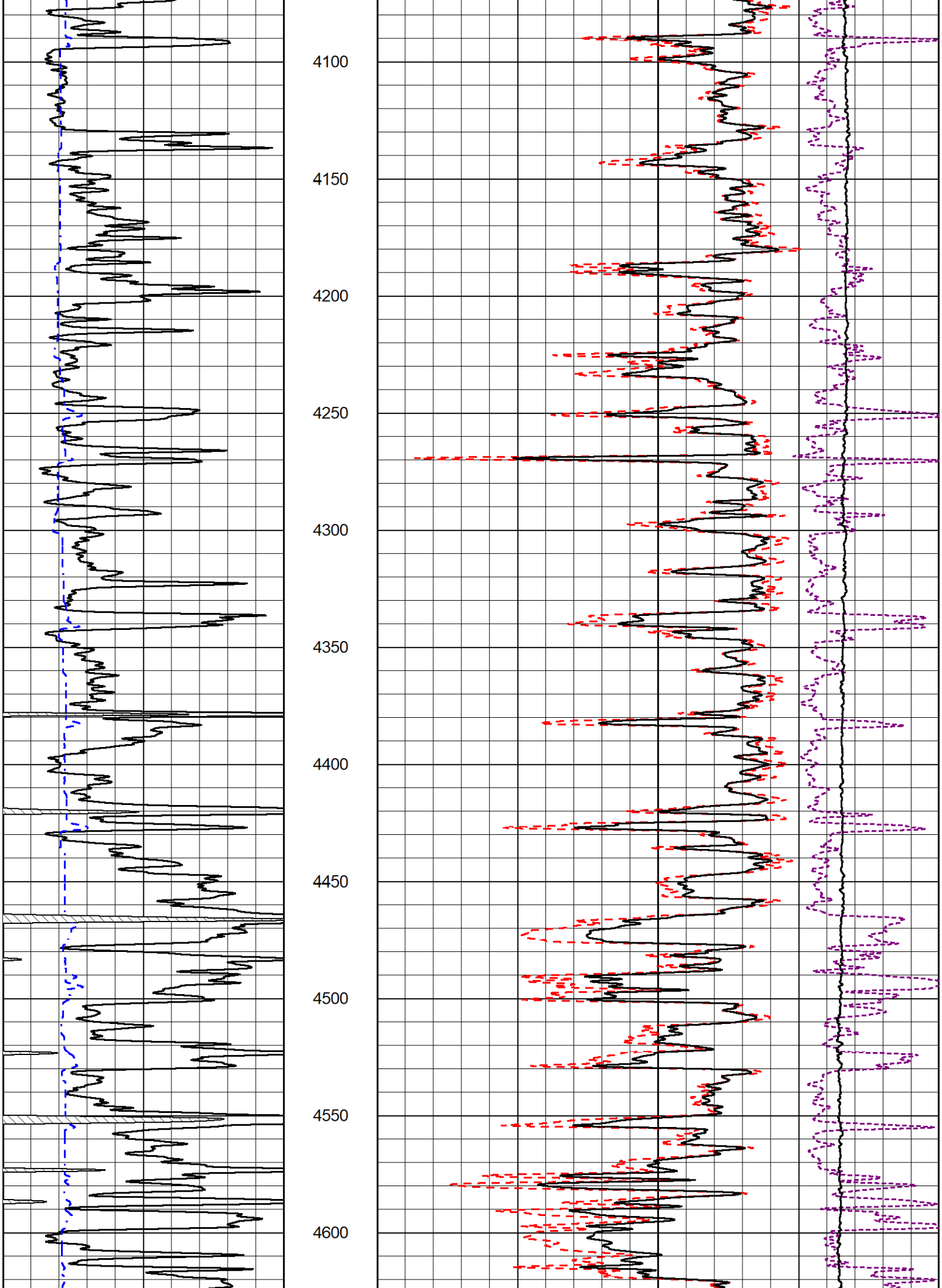
MAIN PASS

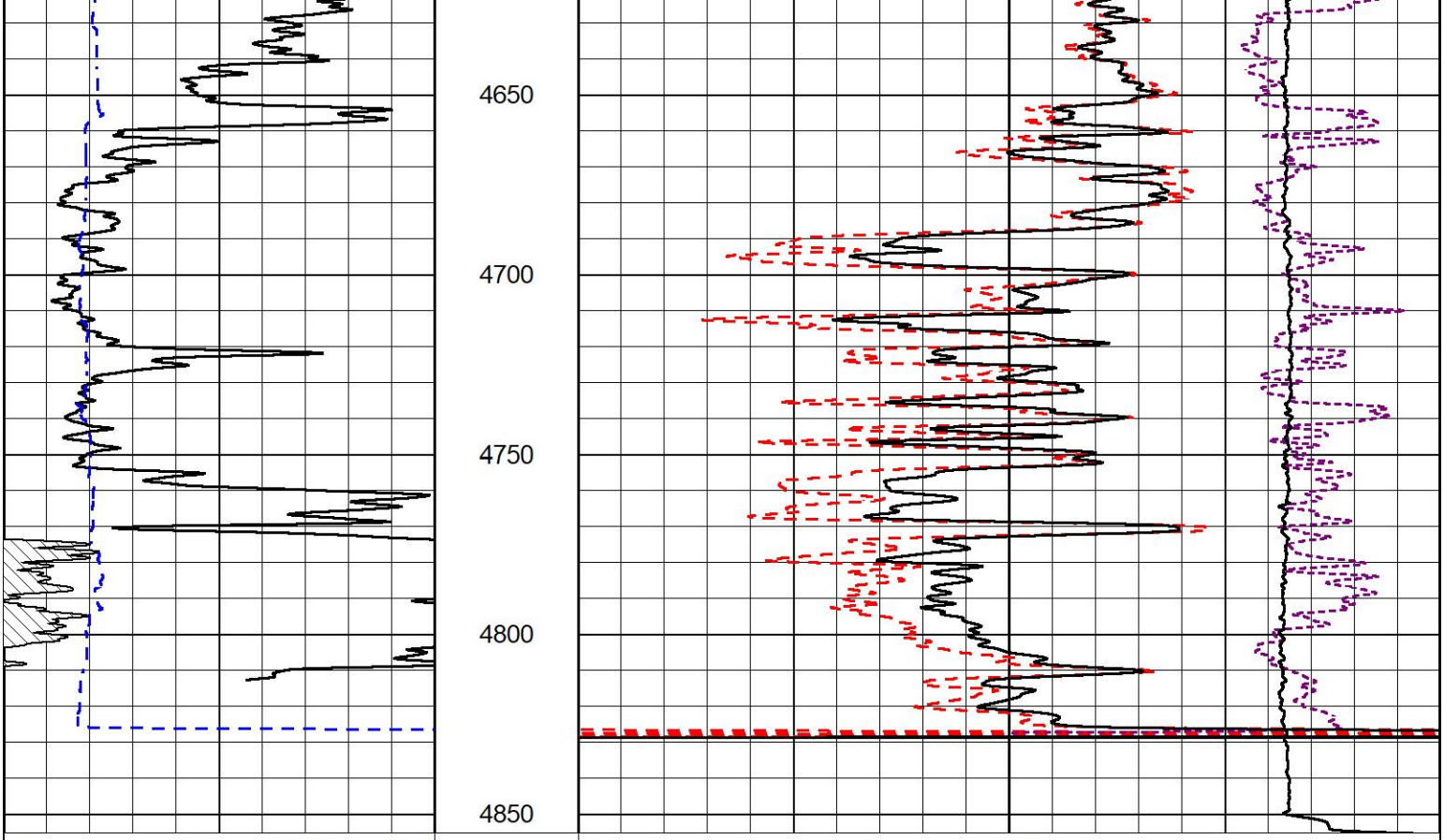
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Dataset Pathname	StkMl/pass3.3
Presentation Format	_cdl
Dataset Creation	Tue Nov 22 05:29:17 2022
Charted by	Depth in Feet scaled 1:600




3000
3050
3100
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3500


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4450
4500
4550
4600

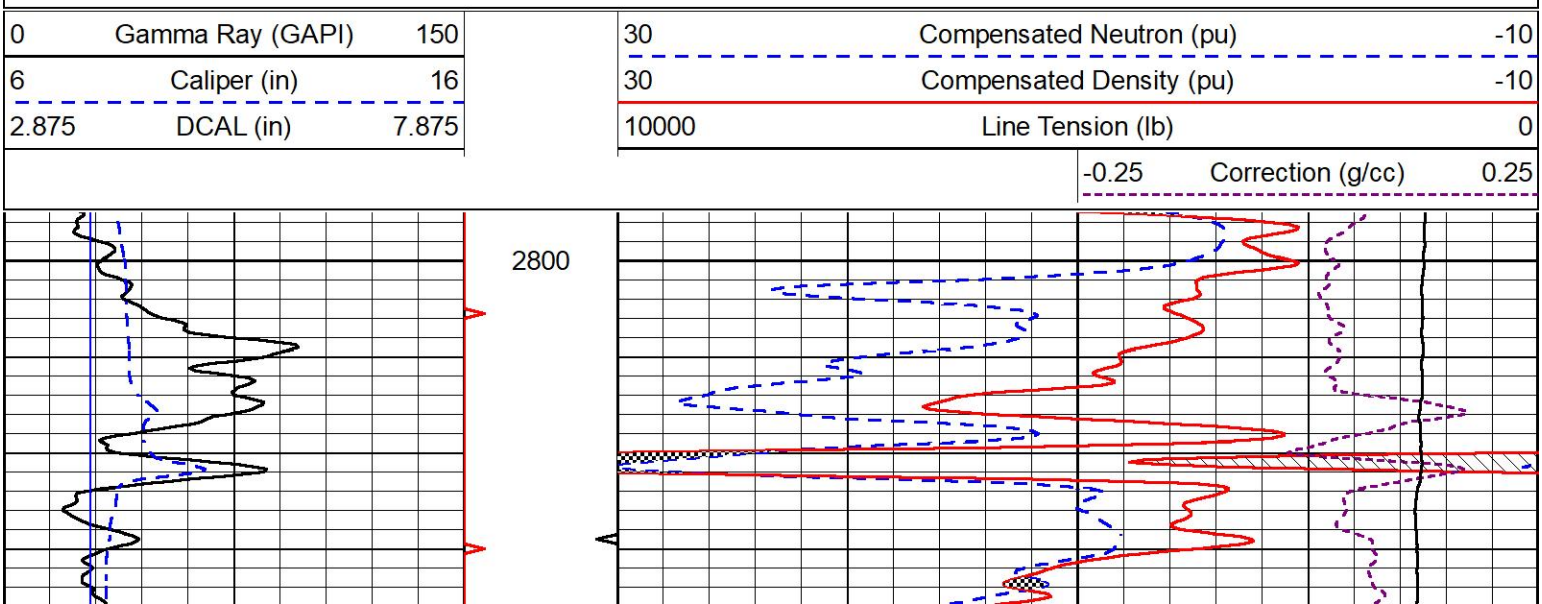


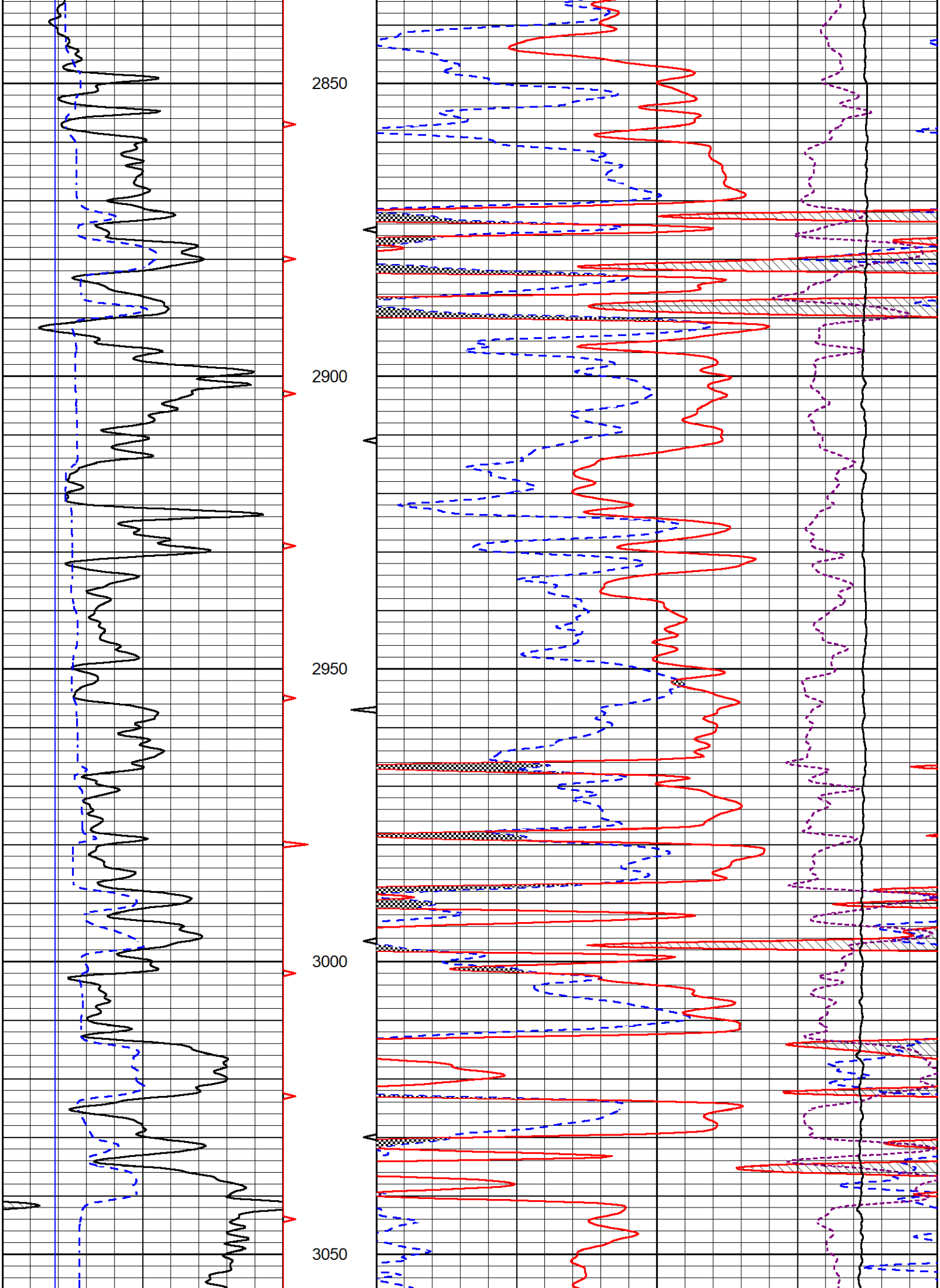
MIDWEST WIRELINE

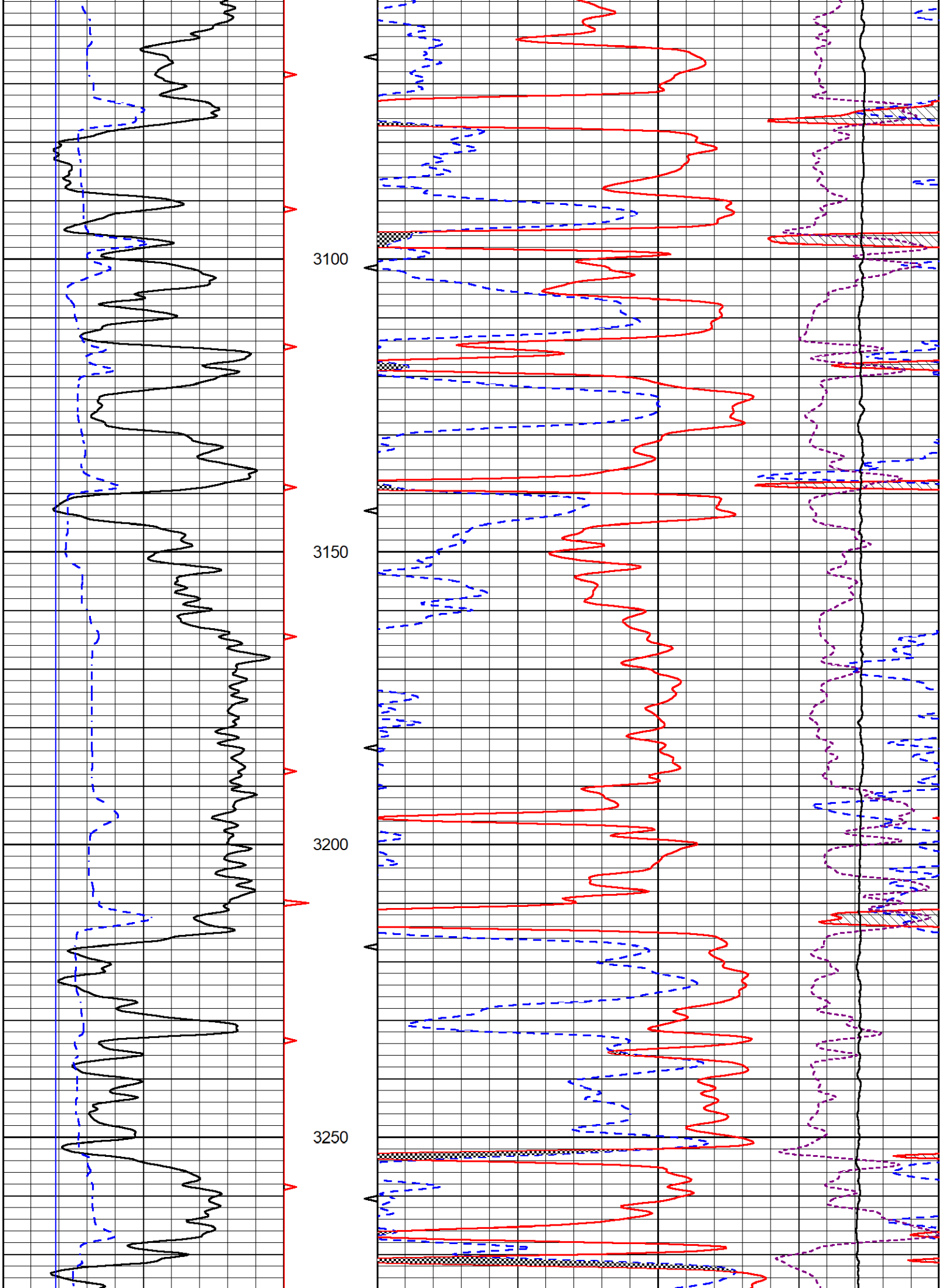
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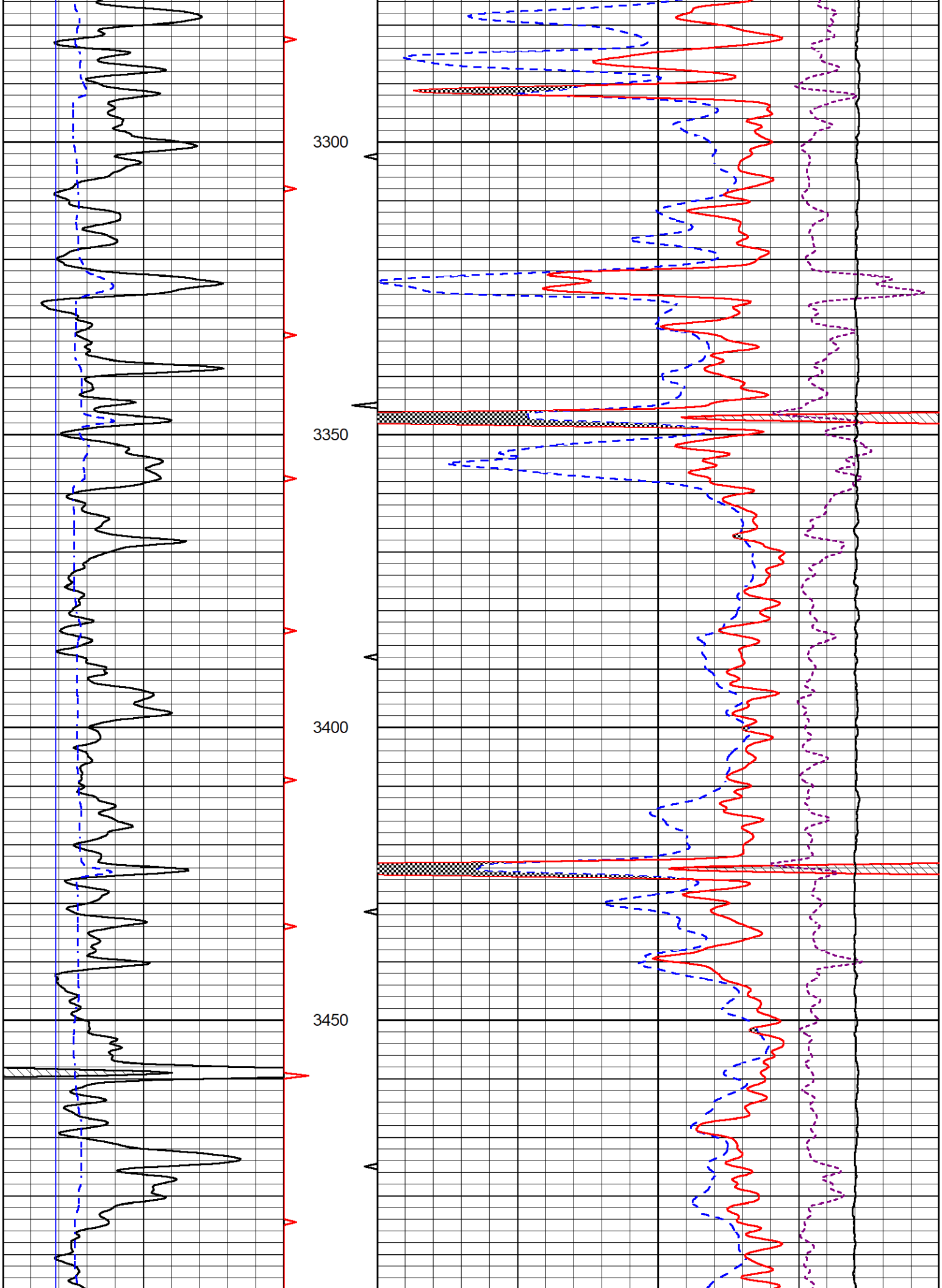
MAIN PASS

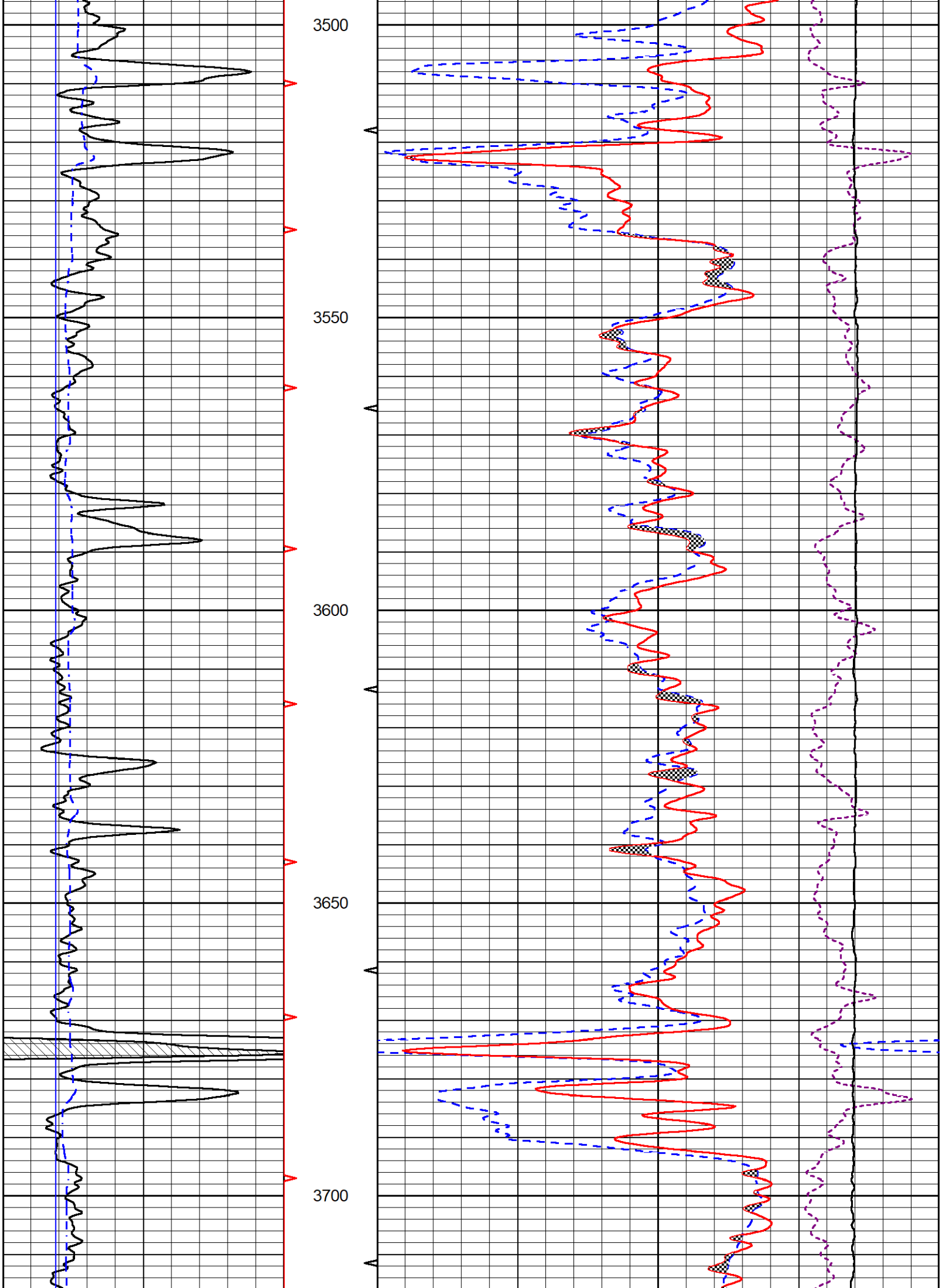
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Presentation Format	_cndlspec
Dataset Creation	Tue Nov 22 05:56:29 2022
Charted by	Depth in Feet scaled 1:240

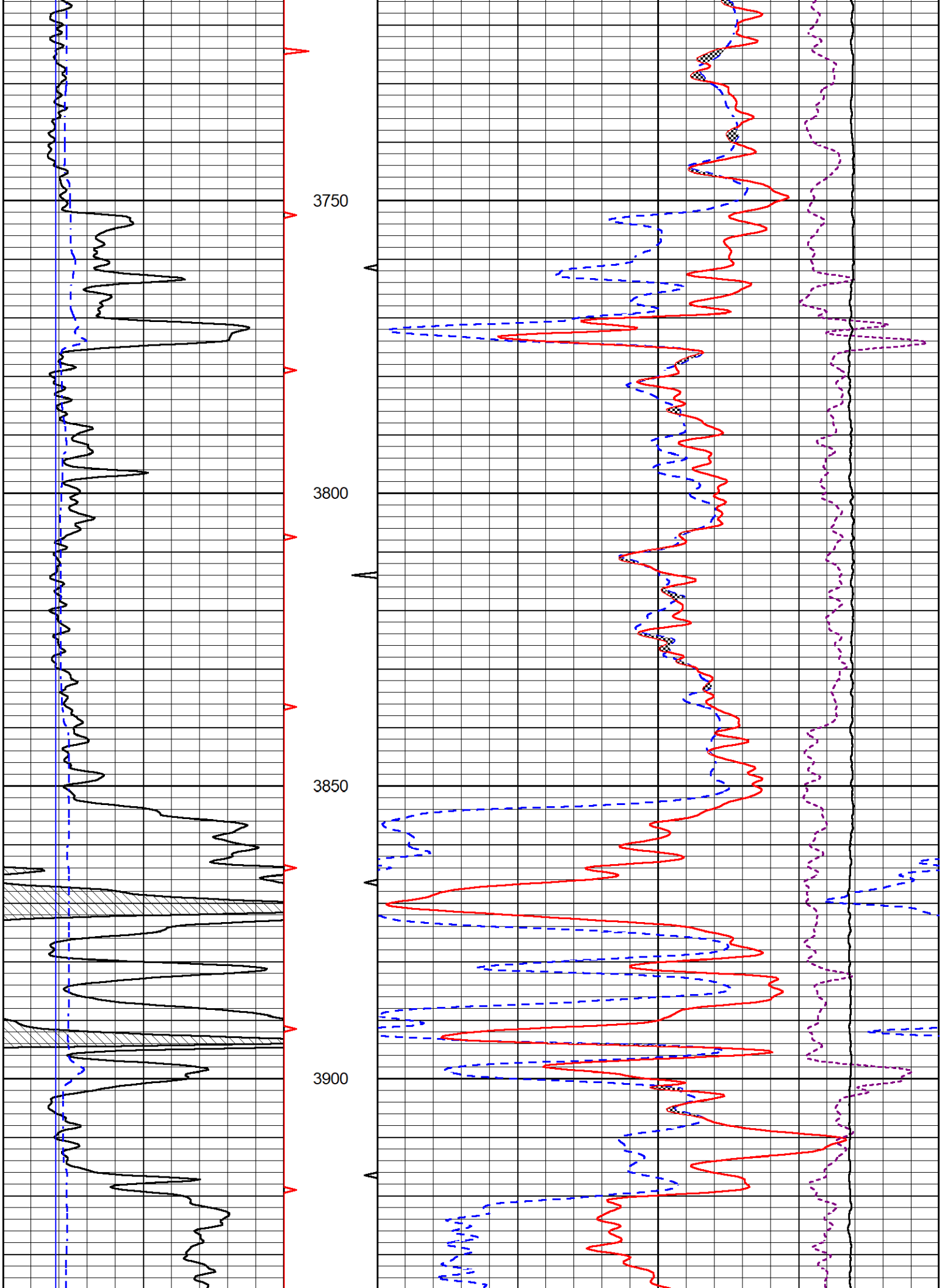


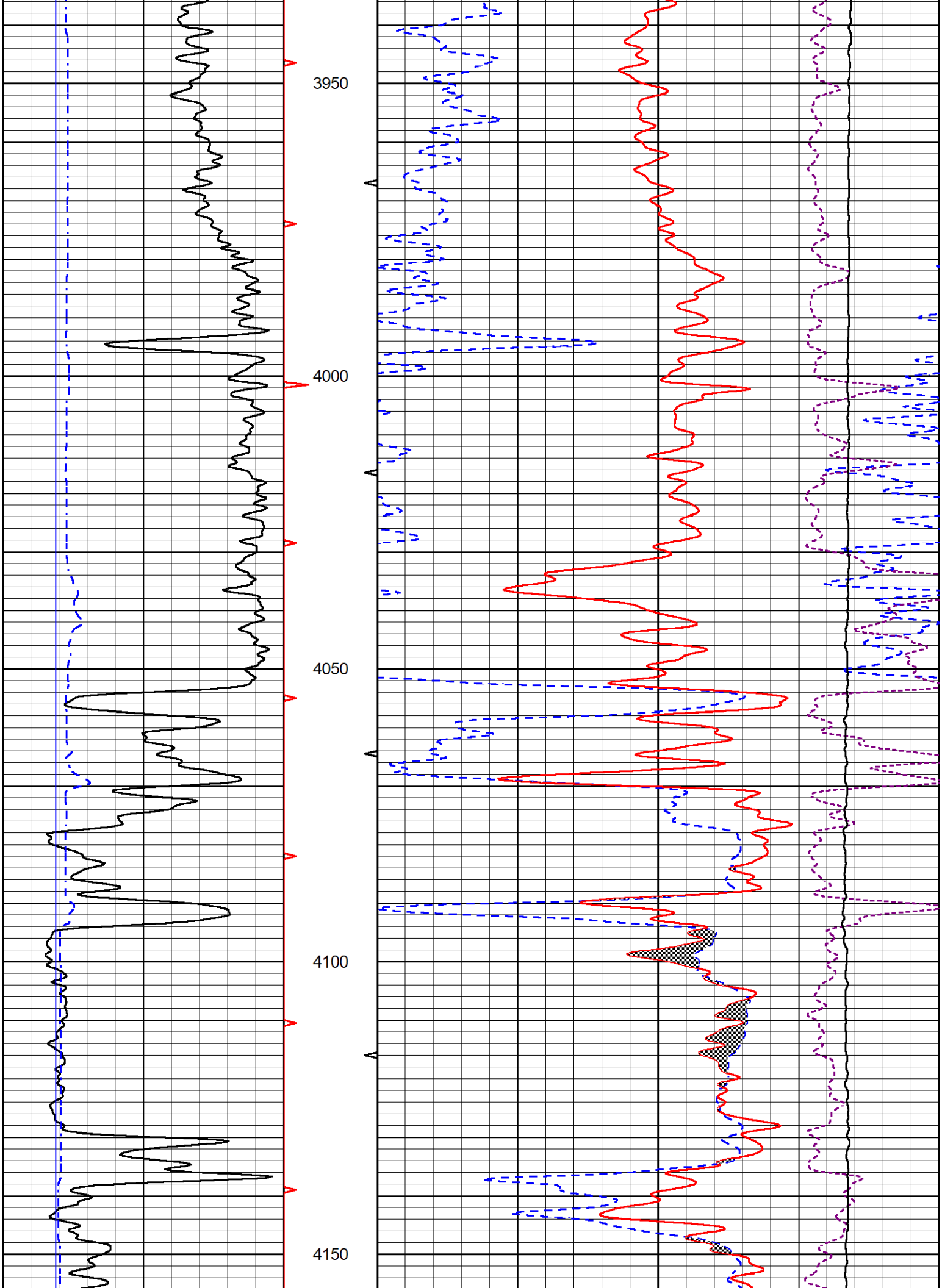

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2900
2950
3000
3050

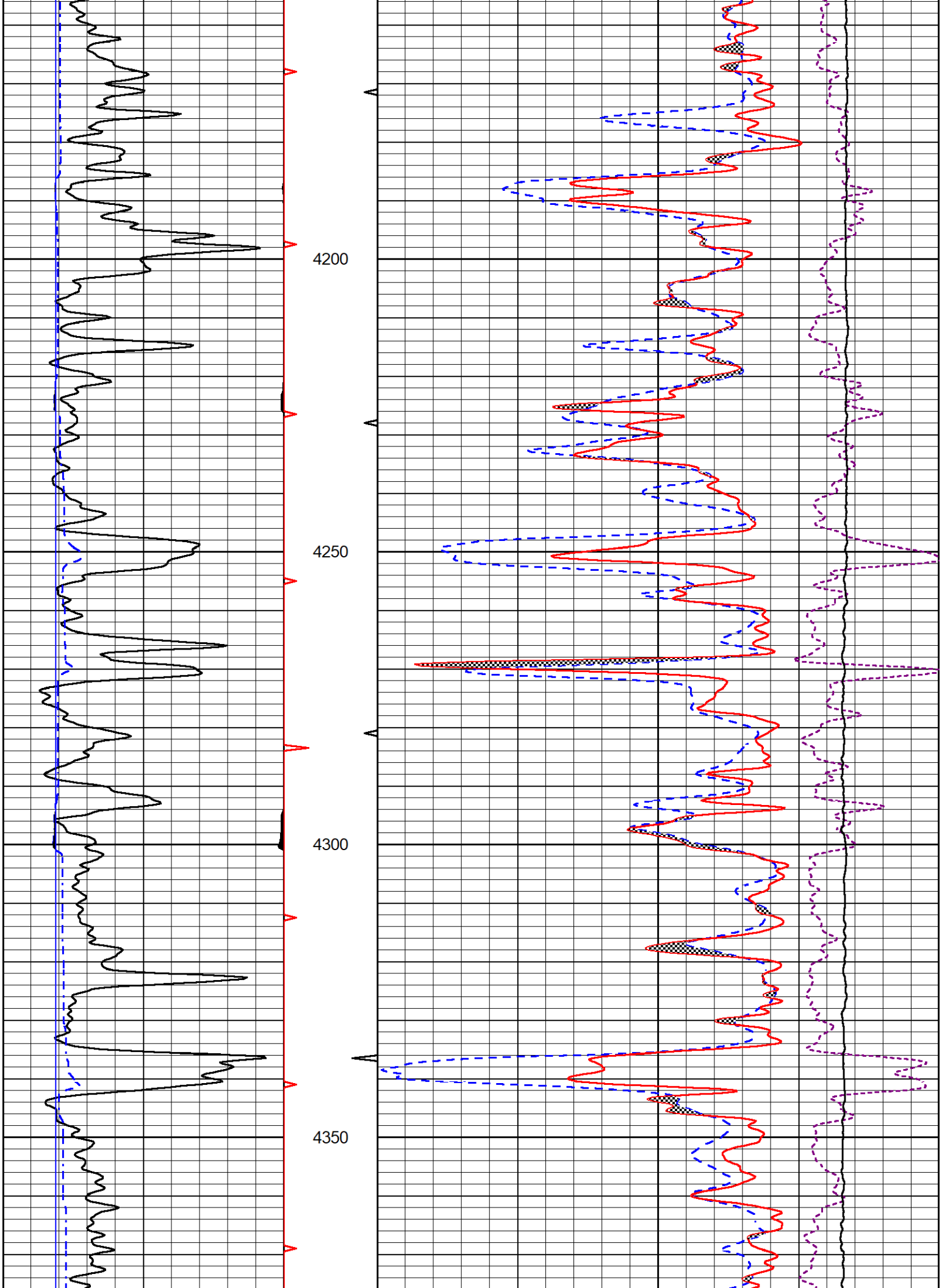

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3150
3200
3250

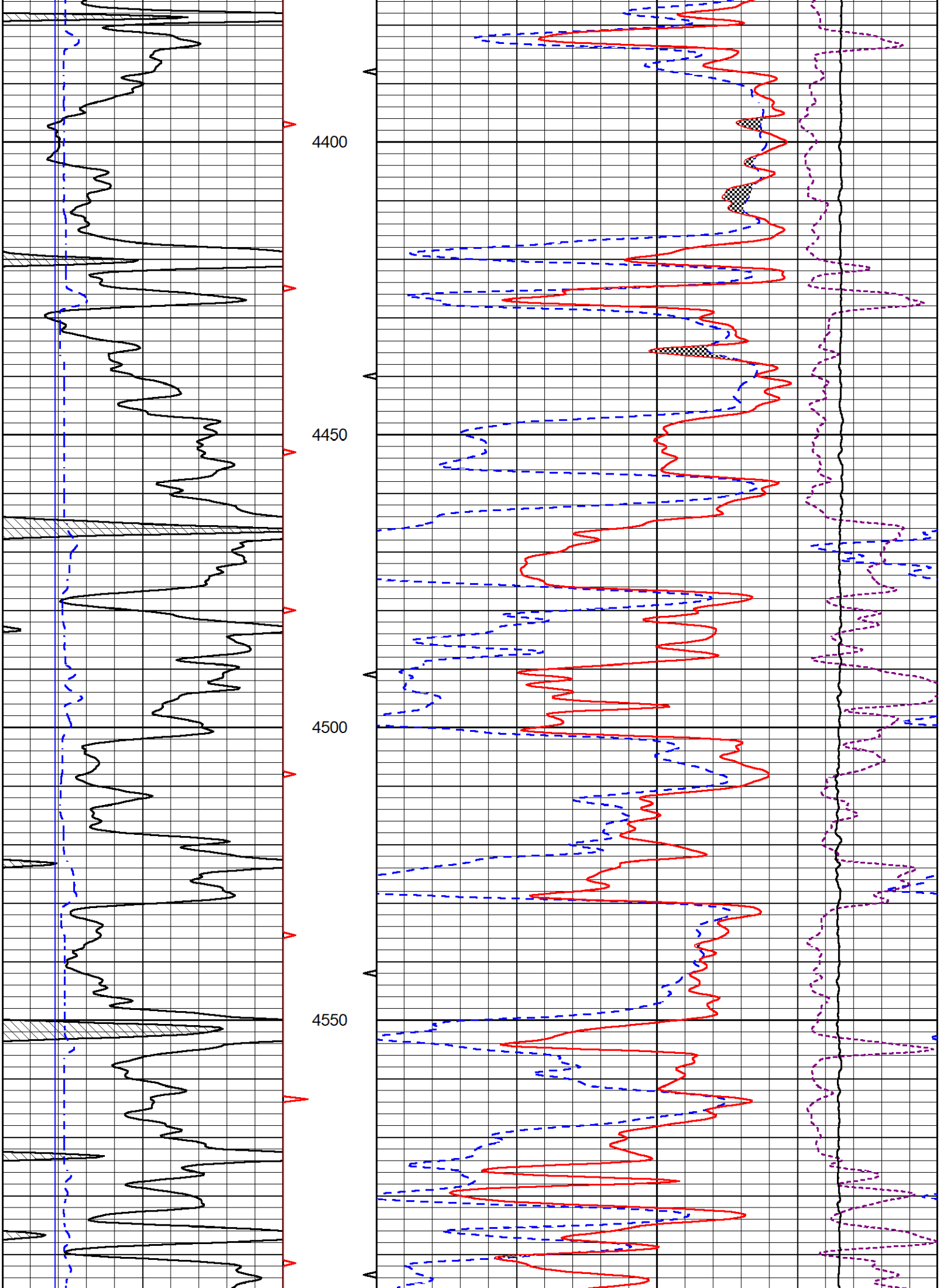

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3400
3450

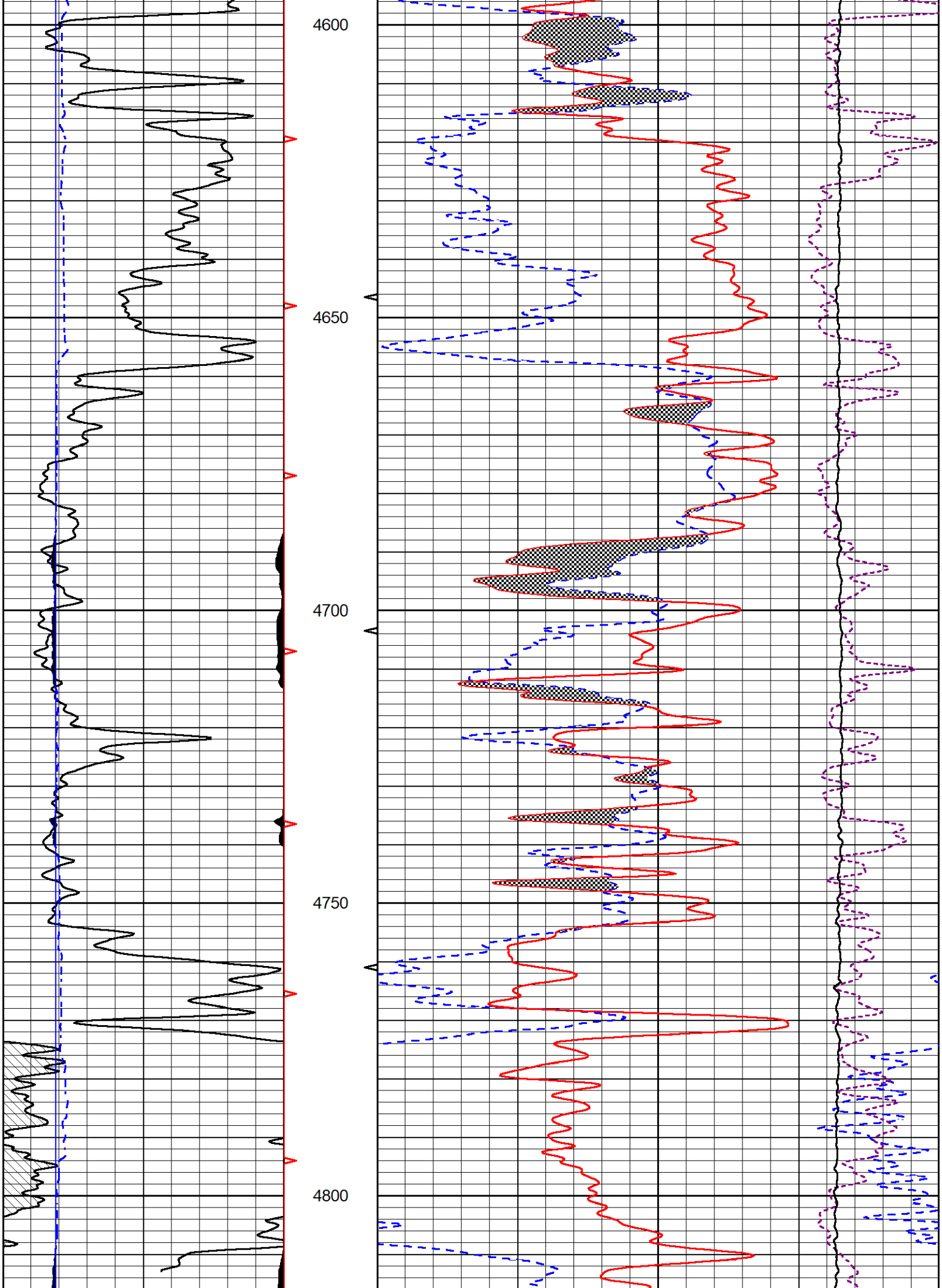

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3650
3700

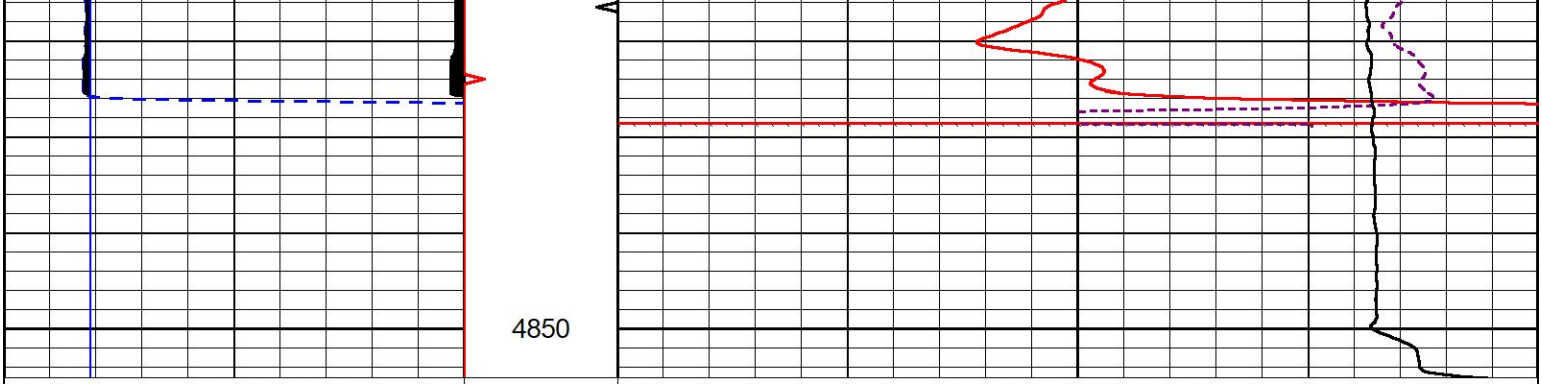

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4350


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4450
4500
4550


4600
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

MIDWEST WIRELINE

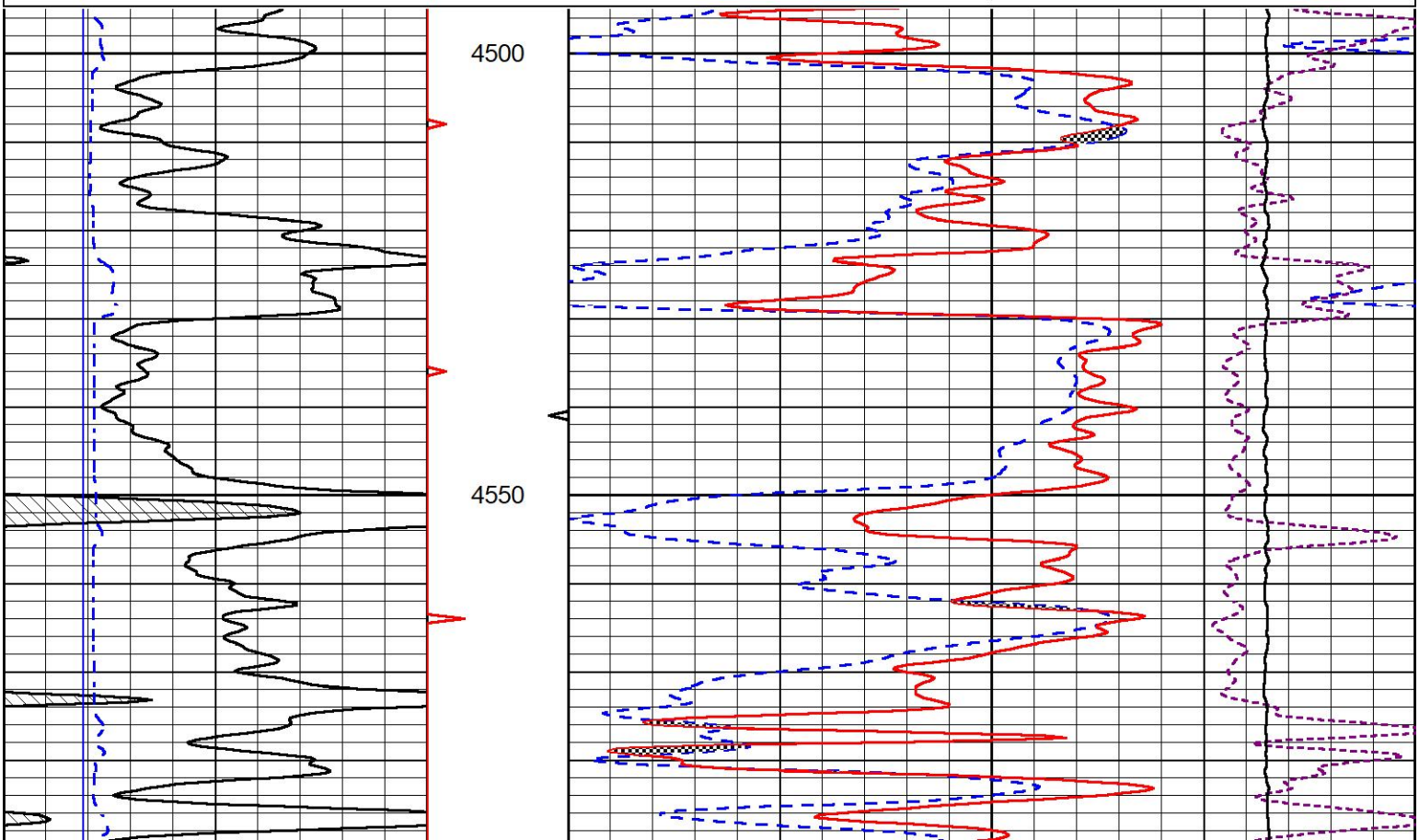
REPEAT SECTION

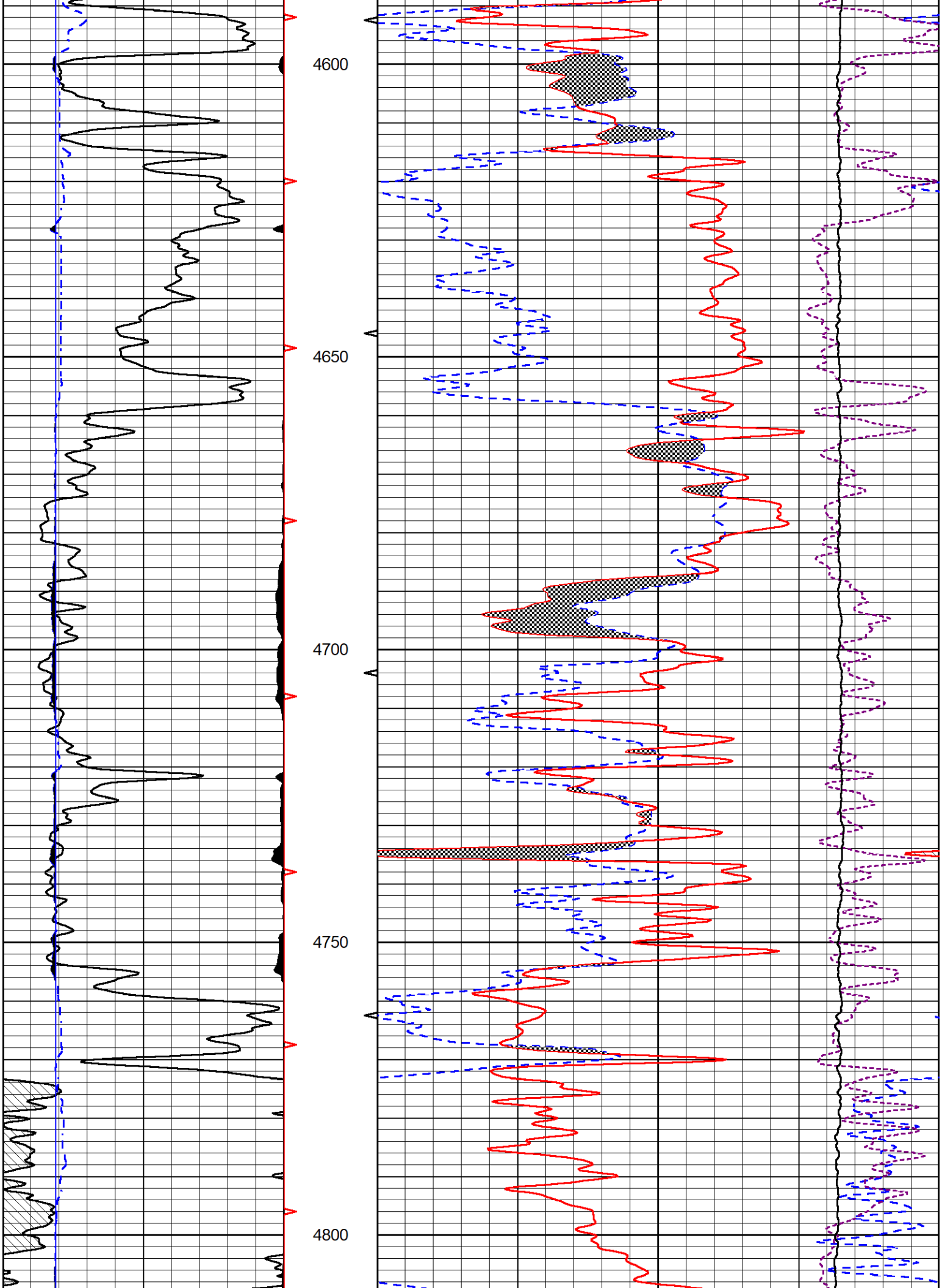
REPEAT PASS

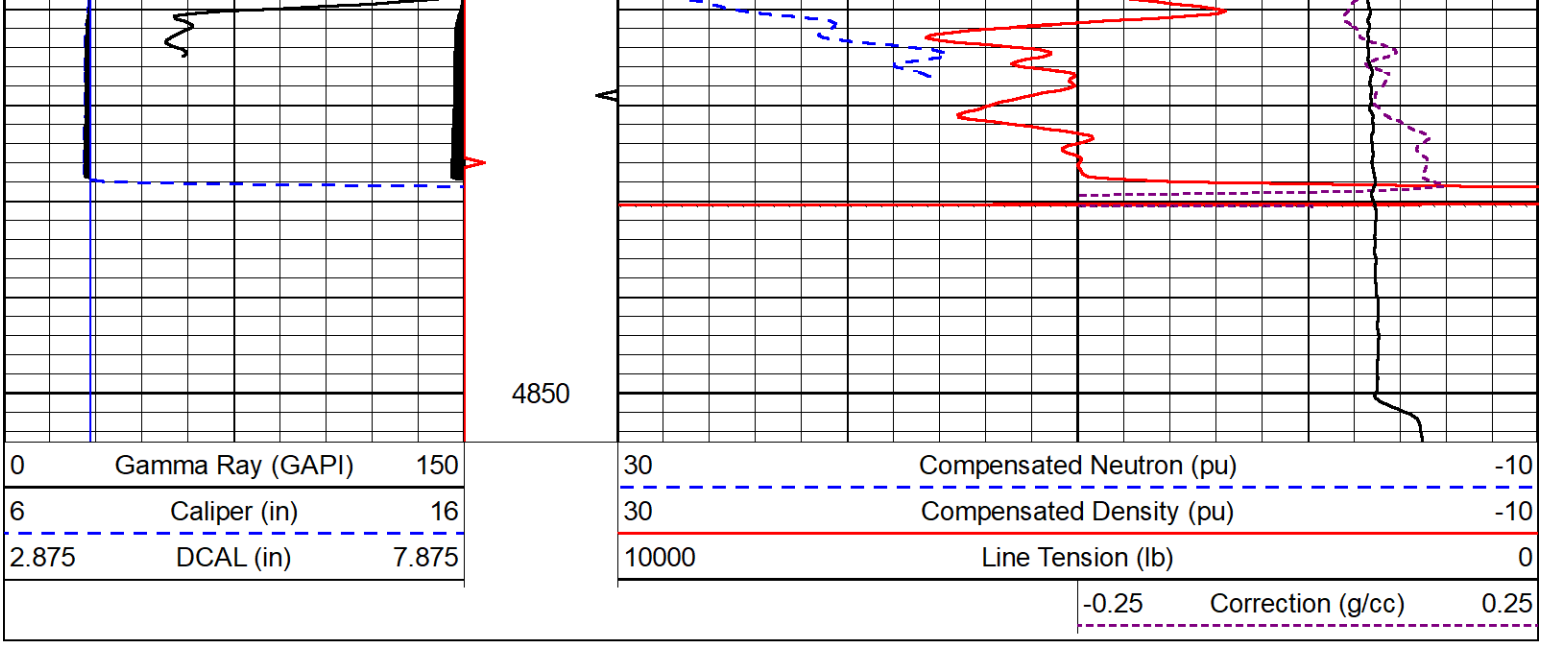
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Dataset Pathname	StkMl/pass2.1
Presentation Format	_CNDLS~1
Dataset Creation	Tue Nov 22 05:14:50 2022
Charted by	Depth in Feet scaled 1:240

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




4600
4650
4700
4750
4800



Calibration Report

Database File	griffin_gwen #3.db
Dataset Pathname	StkMl/pass3.1
Dataset Creation	Tue Nov 22 05:56:29 2022

Dual Induction Calibration Report

Serial-Model:	502 HT-M&W
Surface Cal Performed:	Mon Nov 7 15:53:48 2022

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	255.800	mmho/m	0.454	-31.000
Medium	113.335	1585.690	0.000	255.800	mmho/m	0.350	-11.000

Microlog Calibration Report

Serial-Model:	401-PSIML
Performed:	Mon Nov 7 15:53:59 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-0.4000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	15500.0000	0.0000
Caliper	1.0052	1.0858	5.0000	16.5000	in	98.0000	-93.1500

Compensated Density Calibration Report

Serial-Model:	305-24-M&W
Source #:	20762B
Master Calibration Performed:	Mon Jun 20 16:54:11 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4771.35	5494.27	cps

Aluminum	2.650	g/cc	908.54	3539.54	cps

Spine Angle = 75.15 Density/Spine Ratio = 0.522

	Size		Reading
Small Ring	4.00	in	1.74
Large Ring	14.00	in	1.38

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 Gwen #3
Field Moffett Northwest
County Barber

MIDWEST WIRELINE

State Kansas