MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Griffin Management
Well Olivia #1
Field Unnamed
County Pratt
State Kansas

Location: API # : 15-151-22541-00-00
2310 FSL & 120 FEL
SEC 30 TWP 29S RGE 15W

Other Services
DIL
MEL

Elevation
K.B. 2040
D.F.
G.L. 2035

Permanent Datum Ground Level Elevation 2035
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Company	Griffin Management
Well	Olivia #1
Field	Unnamed
County	Pratt
State	Kansas
Date	1/26/2022
Run Number	One
Type Log	CNL/CDL
Depth Driller	4900
Depth Logger	4898
Bottom Logged Interval	4869
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	2 Hours
Equipment -- Location	P-108 | HAYS
Recorded By	J. Henrickson
Witnessed By	Eli Felts

Borehole Record

Run No.	Bit	From	To
One	12.25	0	252
Two	7.875	252	TD

Casing Record

Size	Wgt.	From	To
8.625	24	0	252

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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.

Haviland Kansas
East to 140th, 9 1/2 South
West 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	This Log Record Was Witnessed By
Engineer: J. Henrickson	Primary Witness: Eli Felts
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

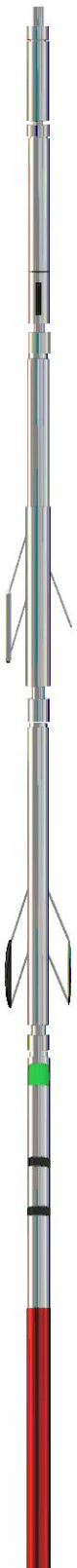
Log Variables

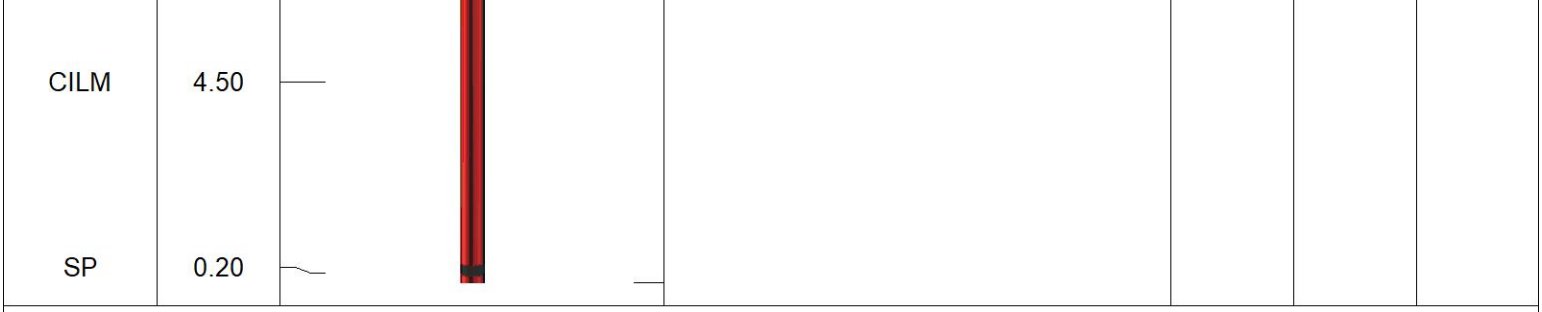
DatabaseC:\ProgramData\Warrior\Data\griffin_olivia_1.db
Dataset field/well/stackml/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	100	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	560	50	Off	4898

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	37.23		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.48					
			CDL-M&W (303-03)	8.50	4.00	250.00
LSD	28.18					
DCAL	28.17					
SSD	27.68					
			ML-PSI STKBL ML (402)	7.58	4.00	65.00
MCAL	19.58					
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					
			DIL-M&W (504 HT)	18.25	3.50	220.00
CILD	8.33					



Dataset: griffin_olivia_1.db: field/well/stackml/pass4.1
Total length: 42.33 ft
Total weight: 685.00 lb
O.D.: 4.00 in

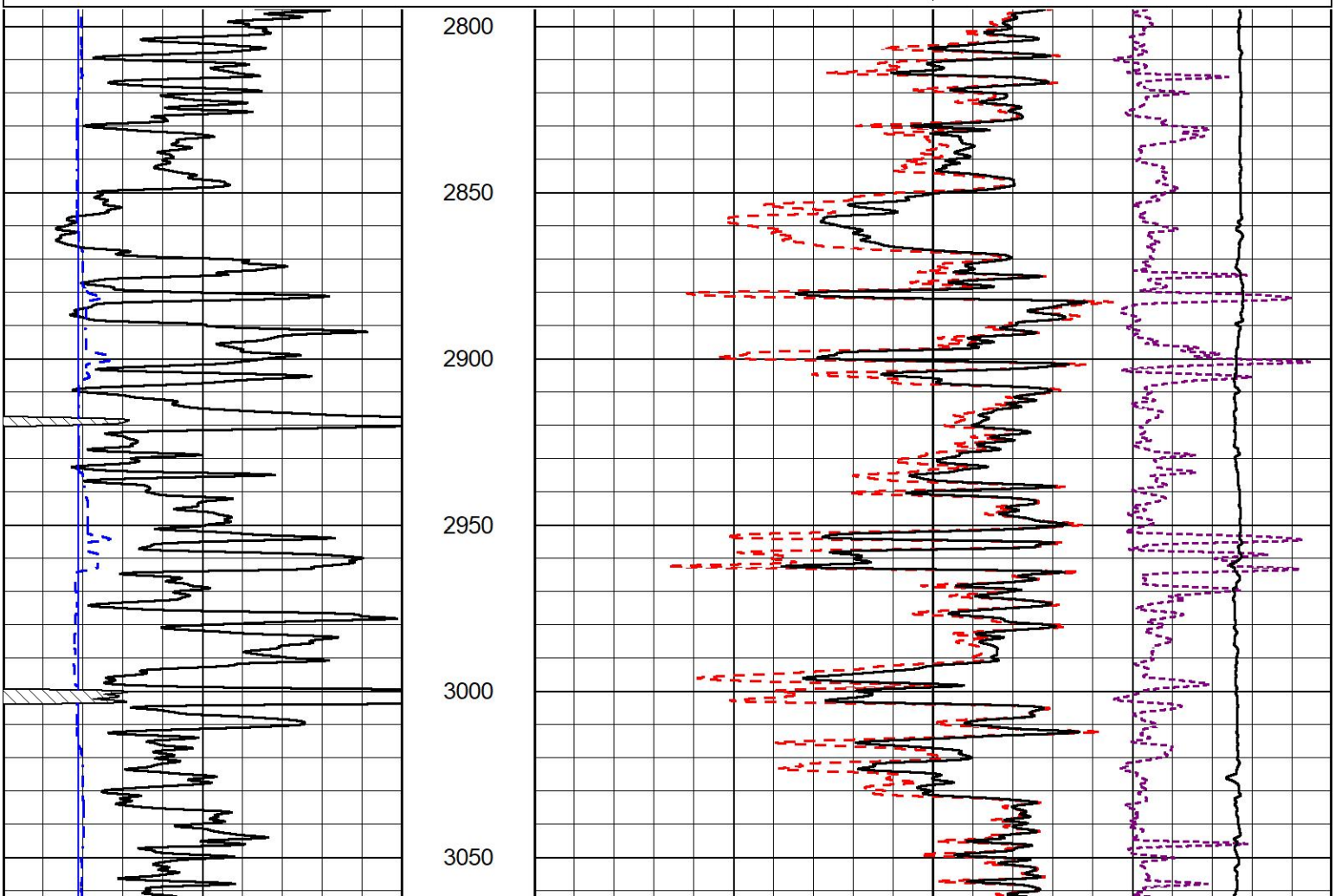
MIDWEST WIRELINE

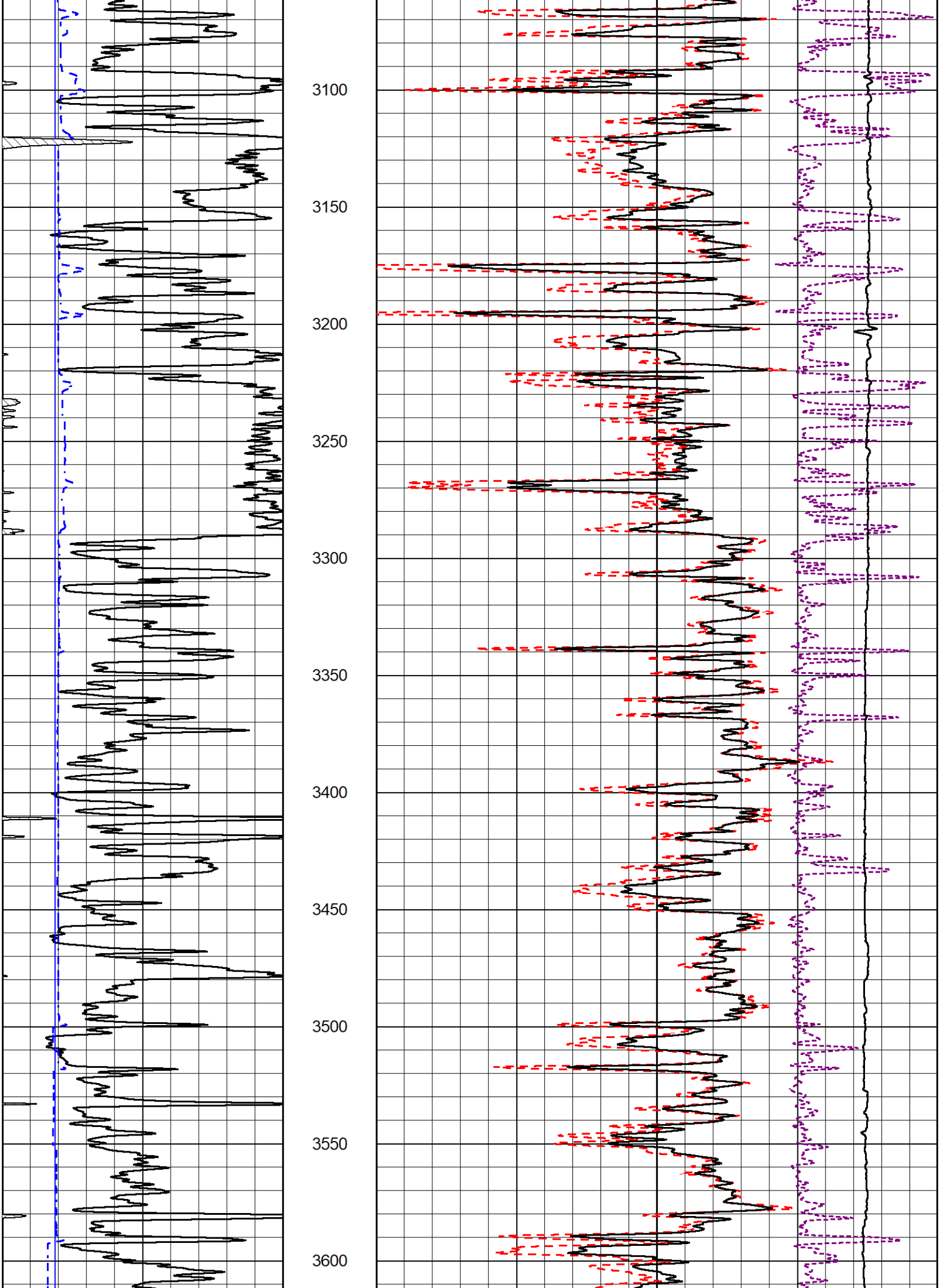
2" SCALE BULK DENSITY

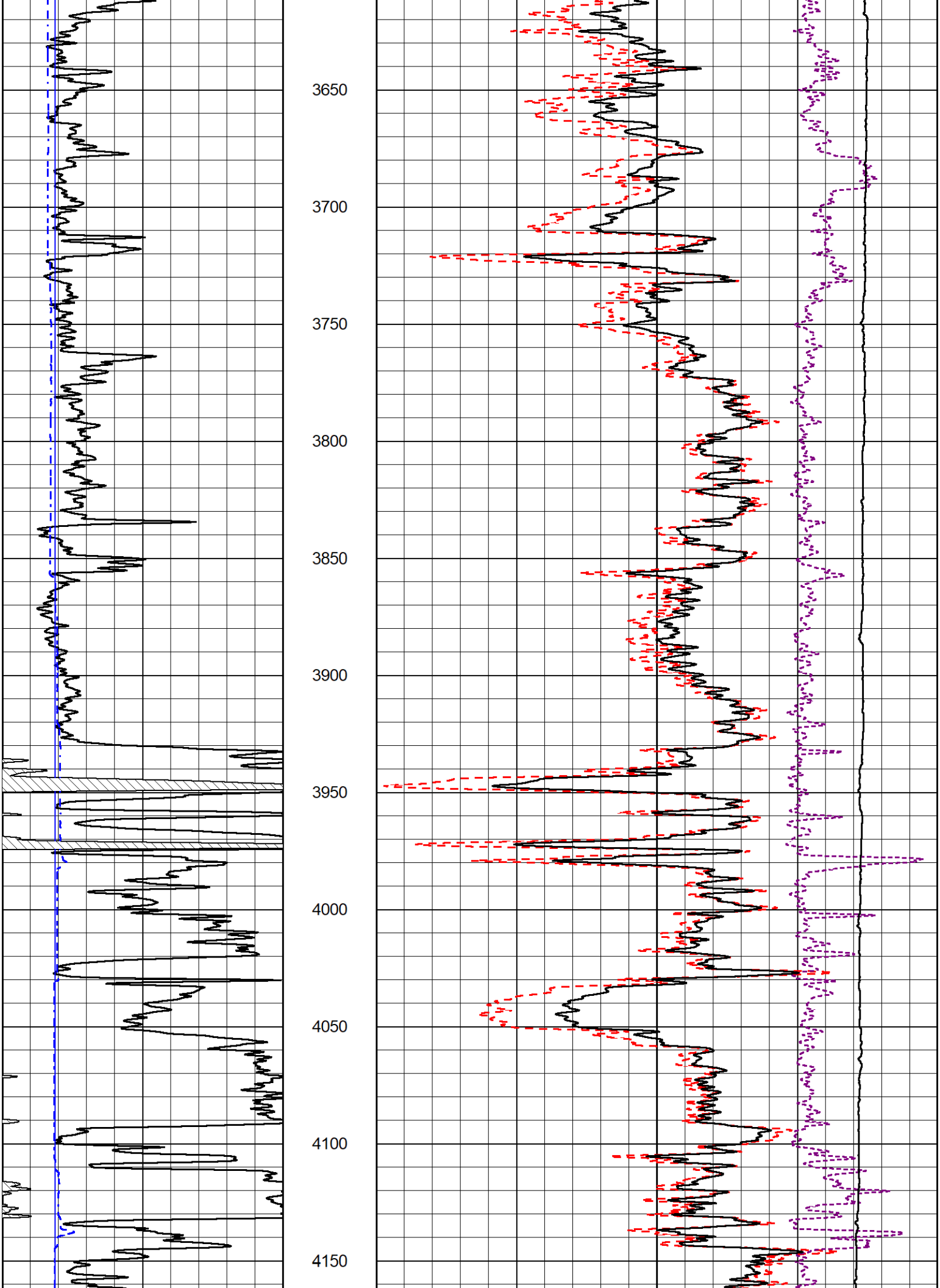
MAIN PASS

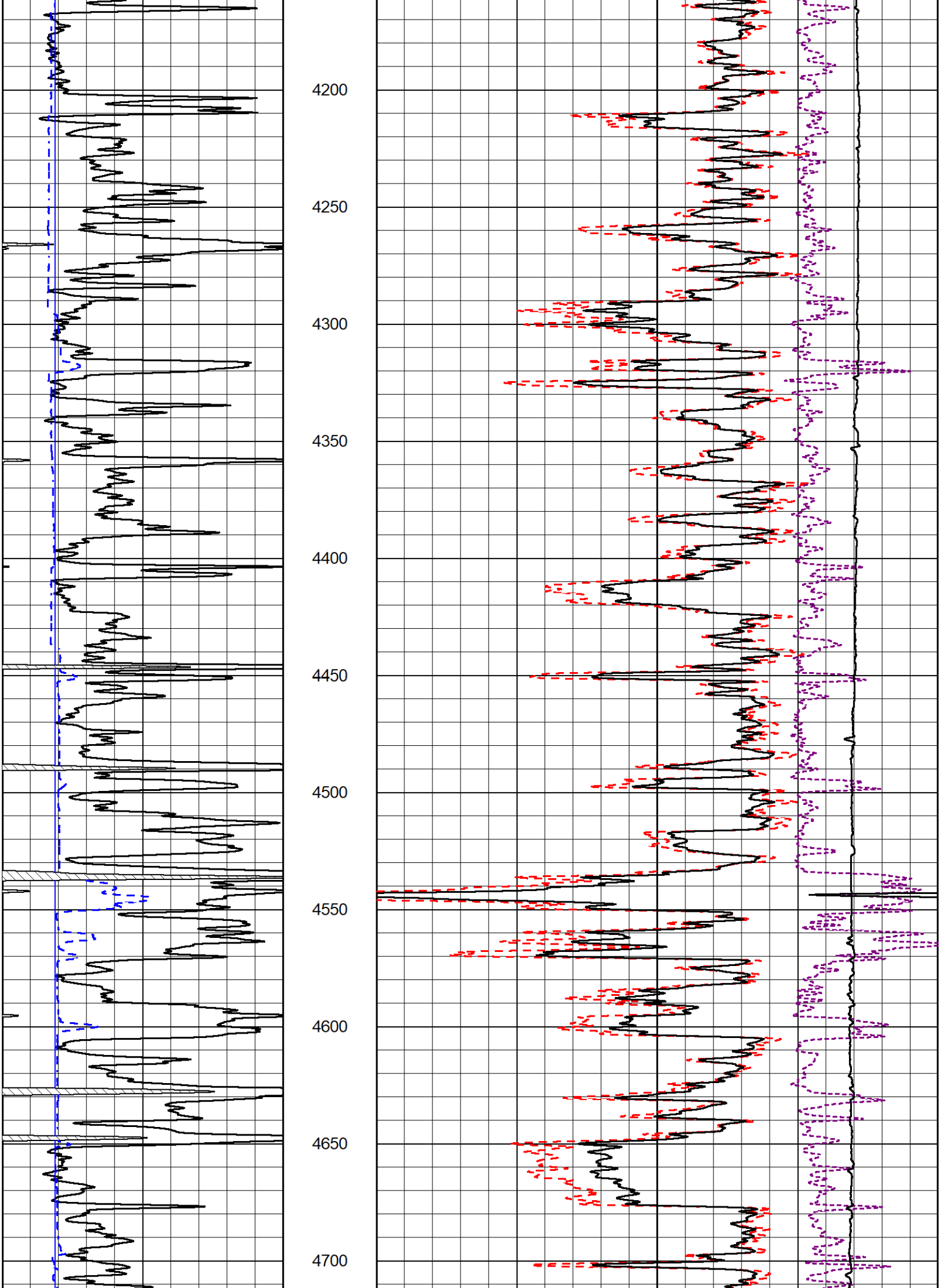
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Presentation Format	_cdl
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Charted by	Depth in Feet scaled 1:600

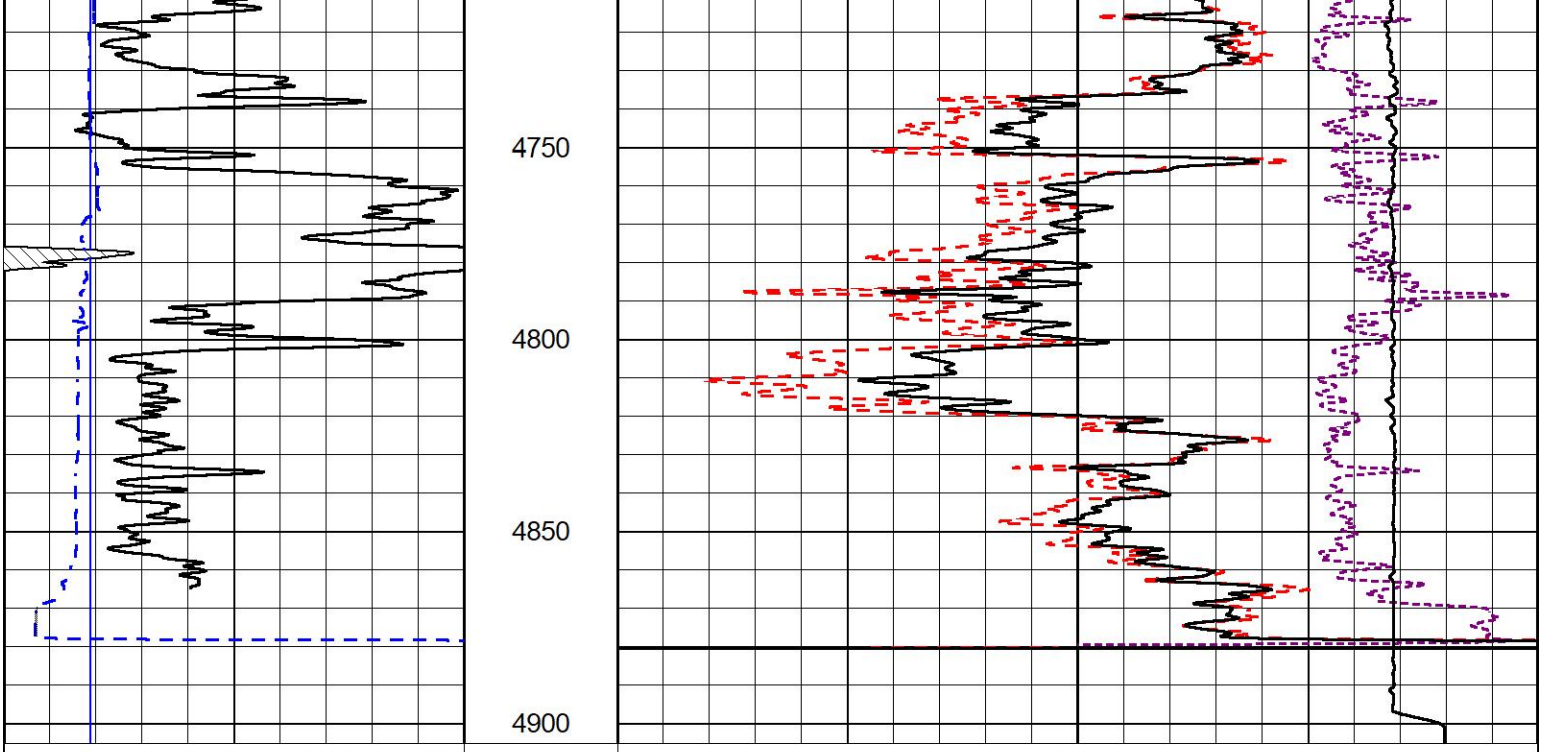
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25




3100
3150
3200
3250
3300
3350
3400
3450
3500
3550
3600


3650
3700
3750
3800
3850
3900
3950
4000
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4150


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4550
4600
4650
4700

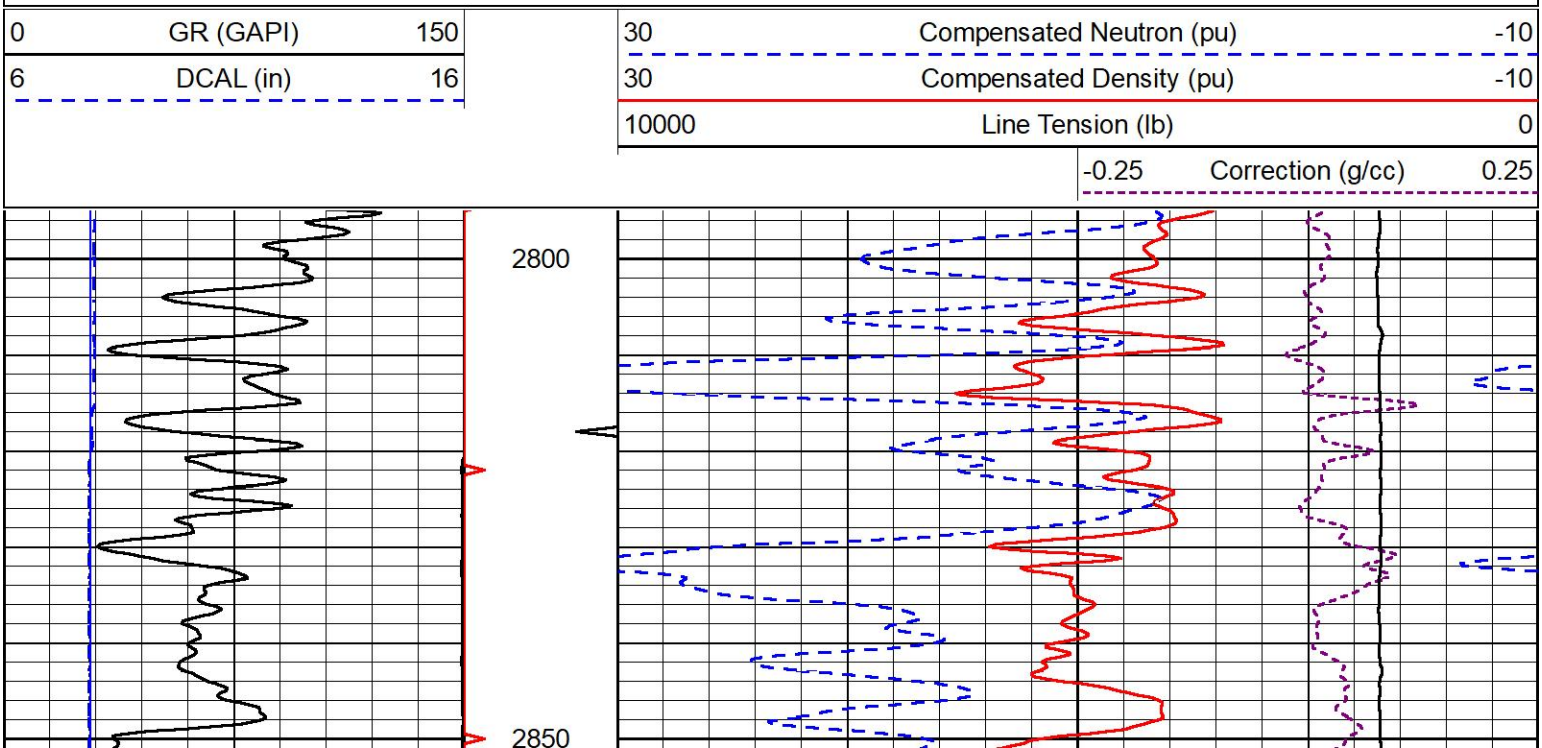


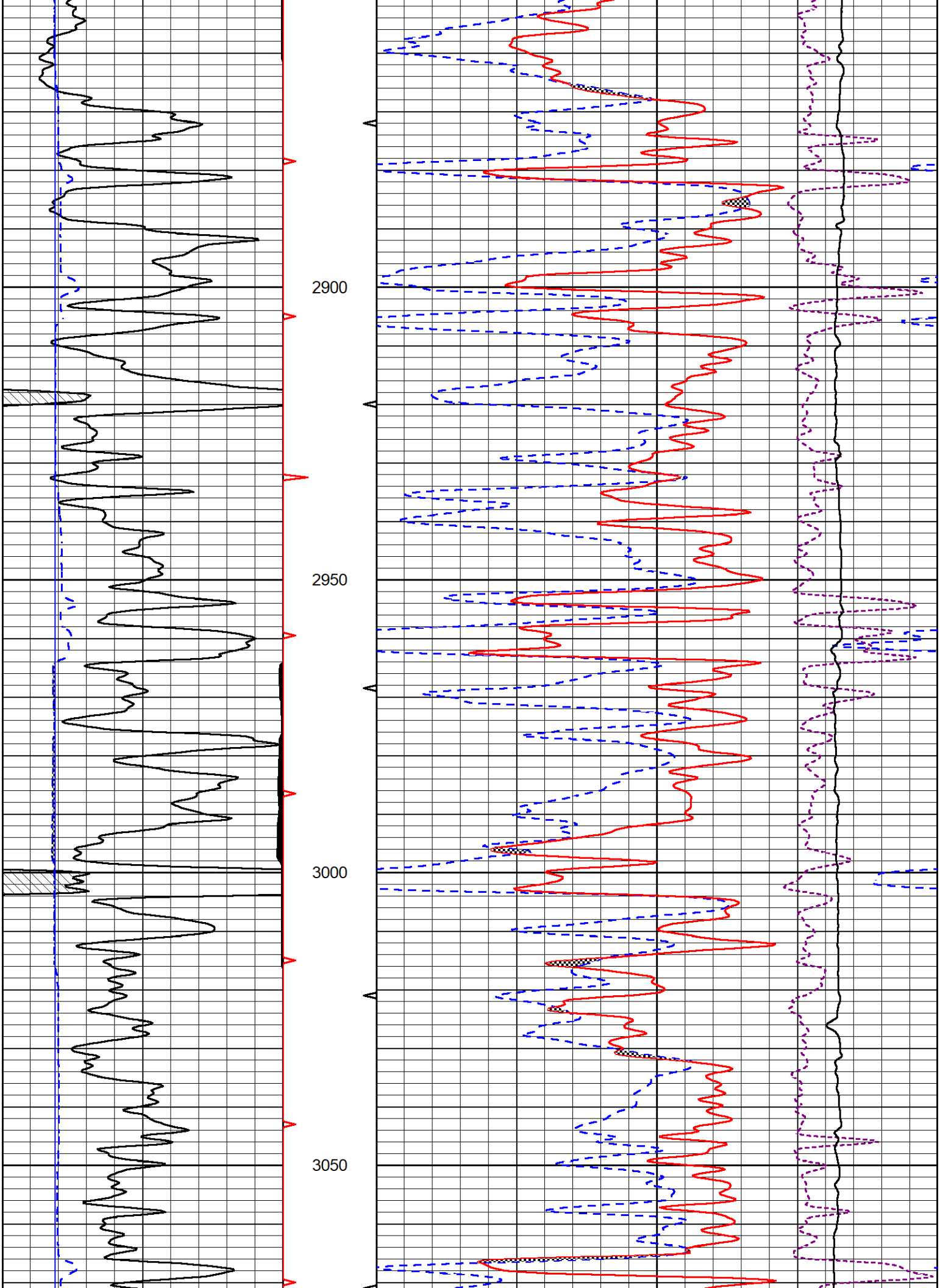
DETAIL SECTION

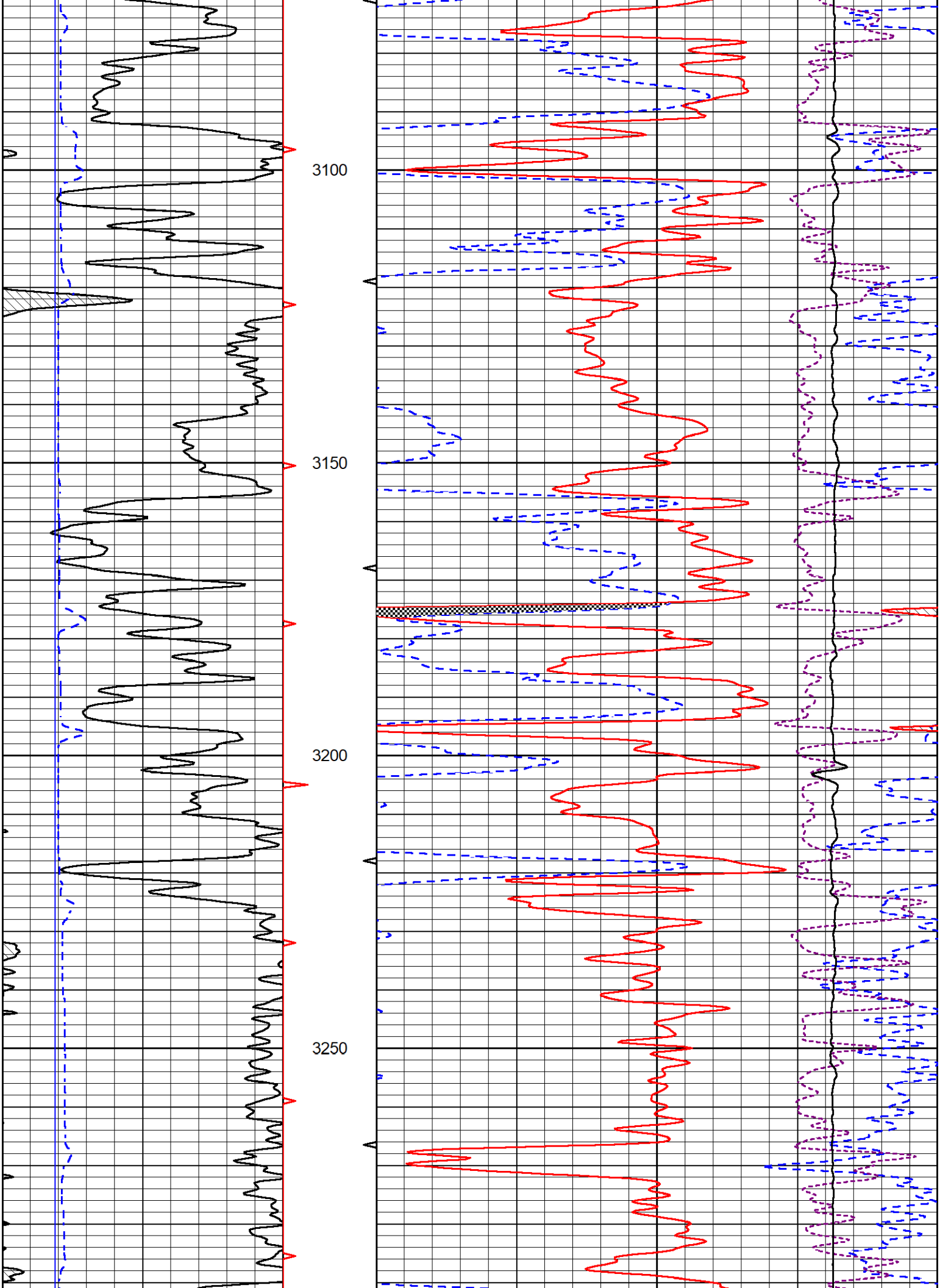
MAIN PASS

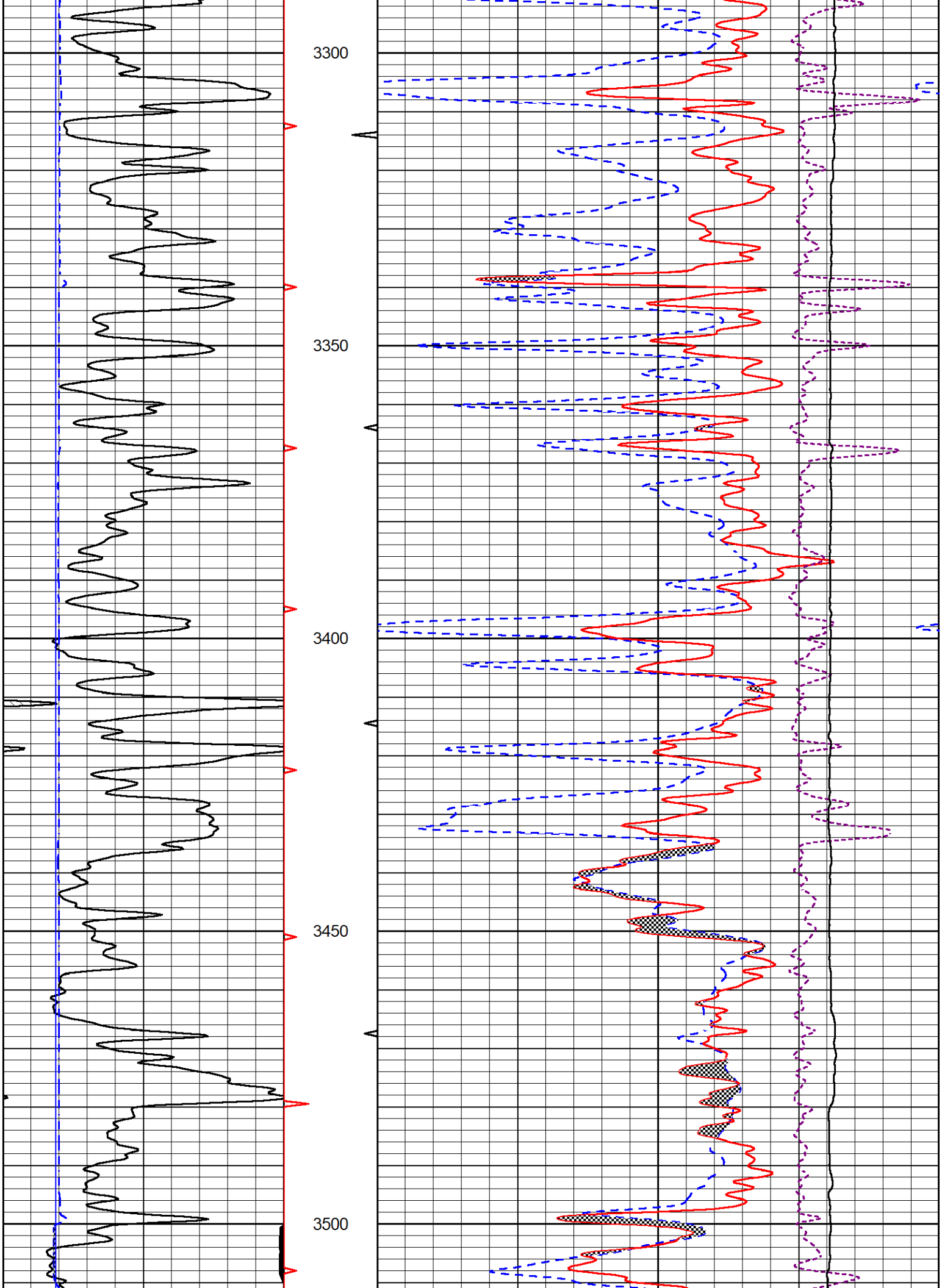
MIDWEST WIRELINE

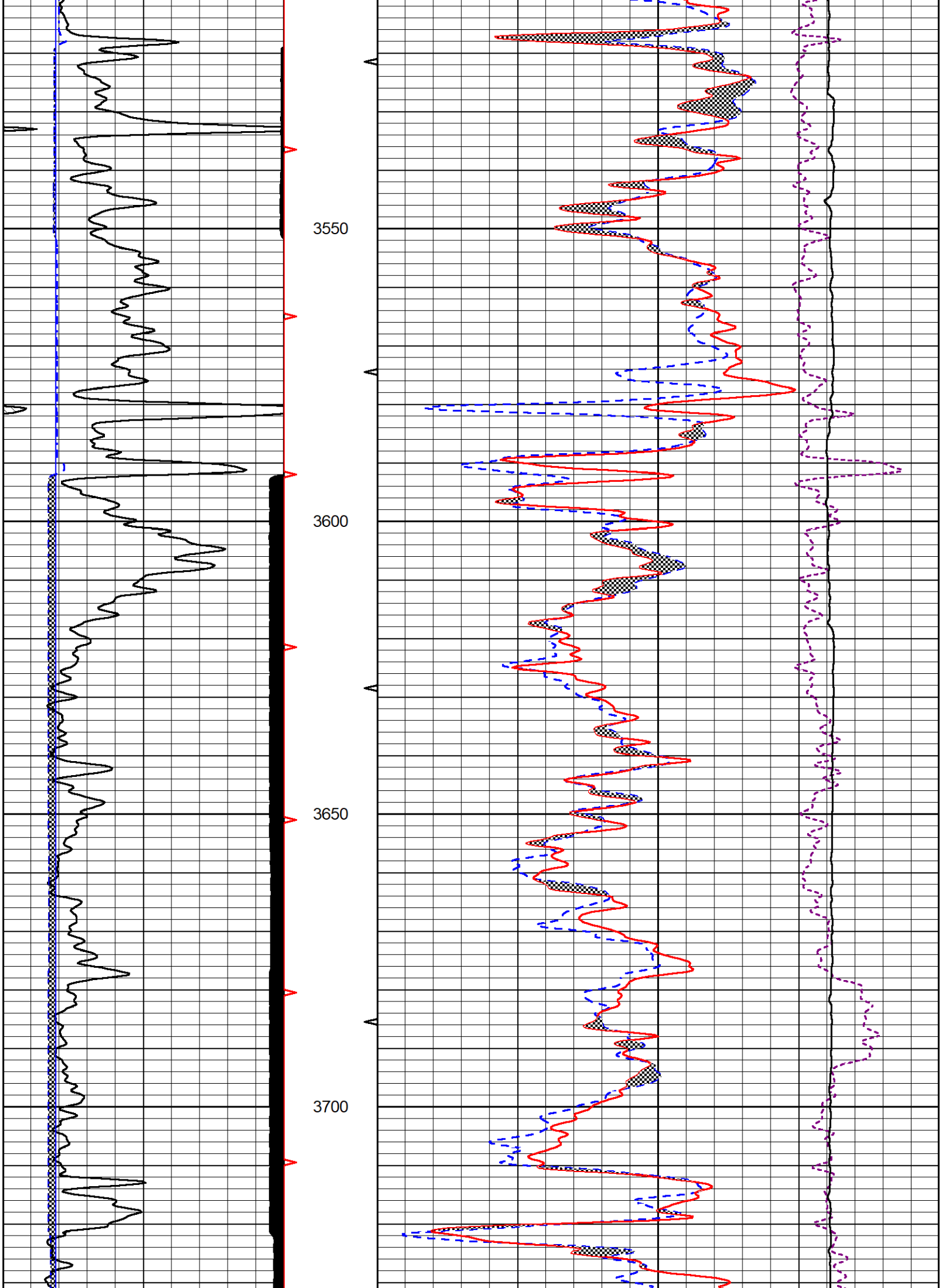
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Dataset Pathname	stackml/pass4.1
Presentation Format	_CNDLS~1
Dataset Creation	Wed Jan 26 20:14:55 2022
Charted by	Depth in Feet scaled 1:240

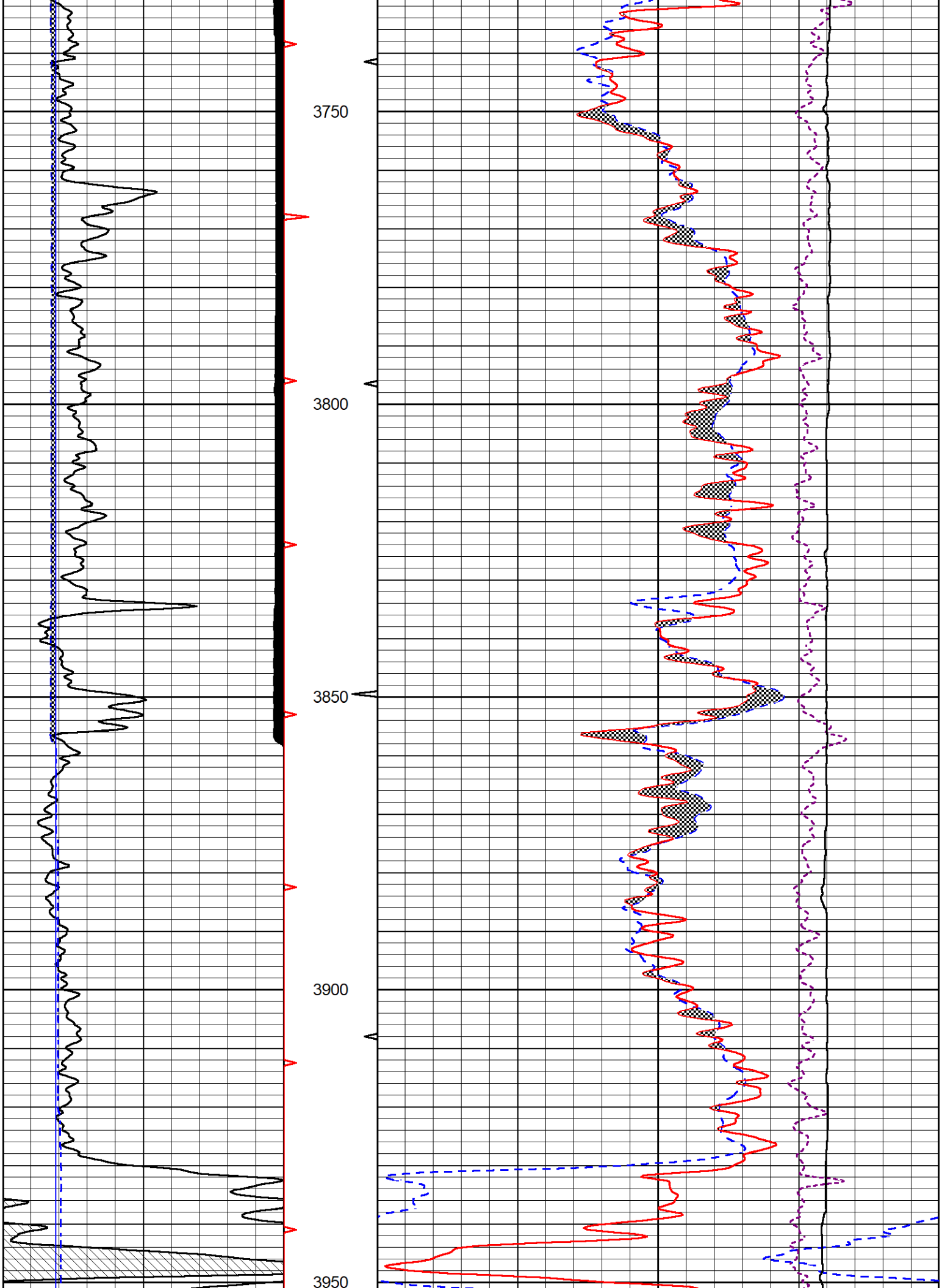


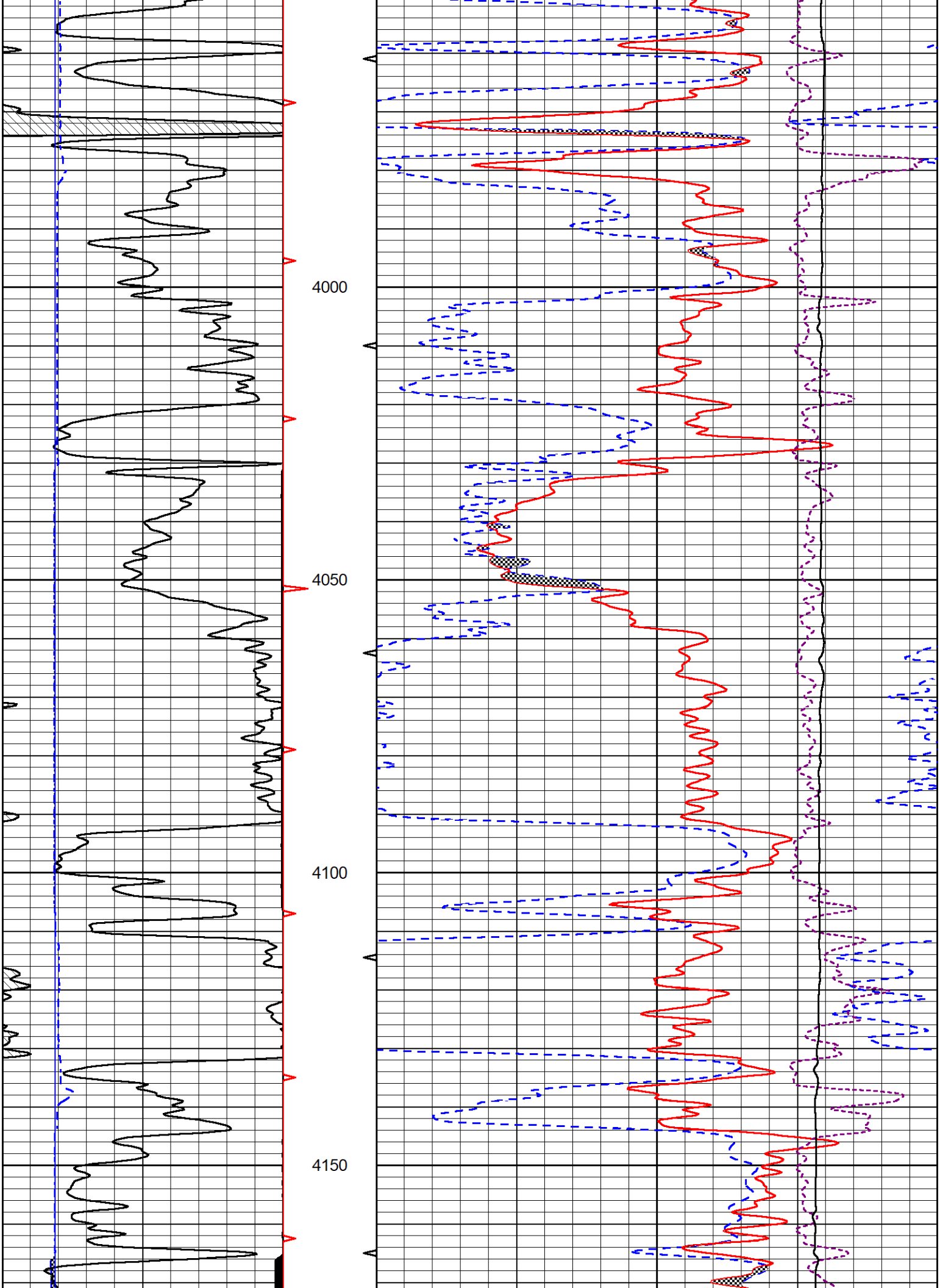

2900
2950
3000
3050

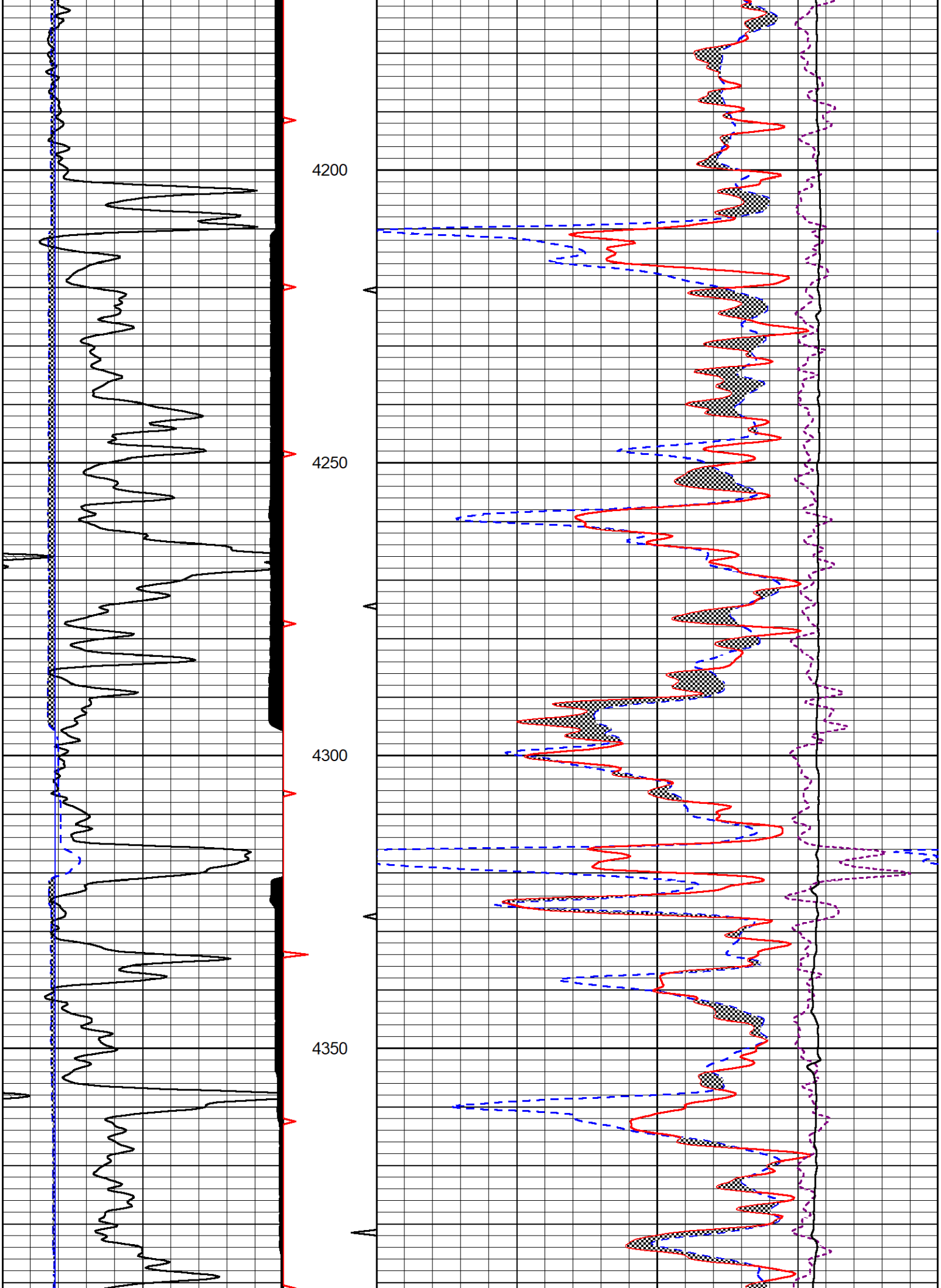

3100
3150
3200
3250

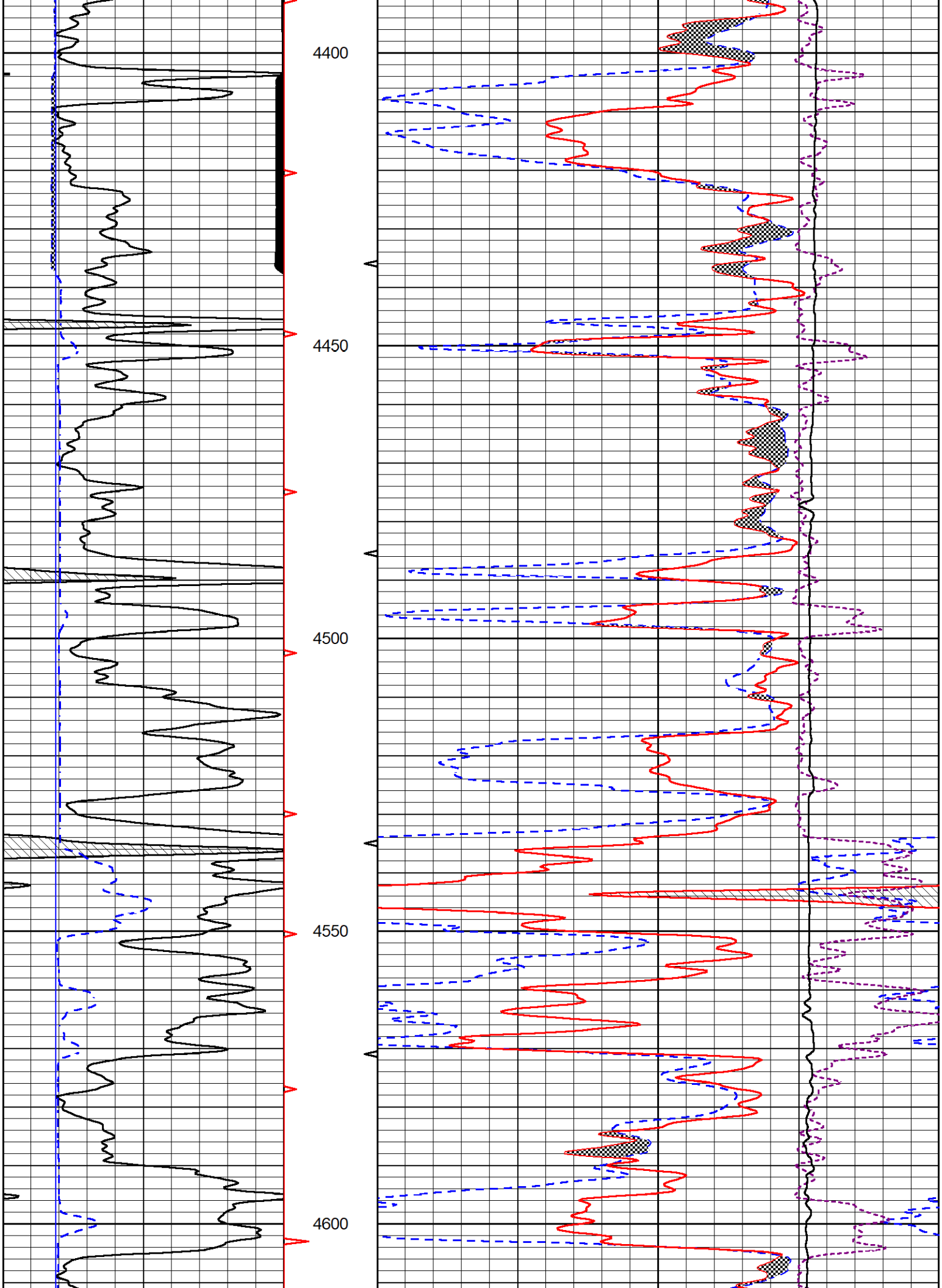

3300
3350
3400
3450
3500

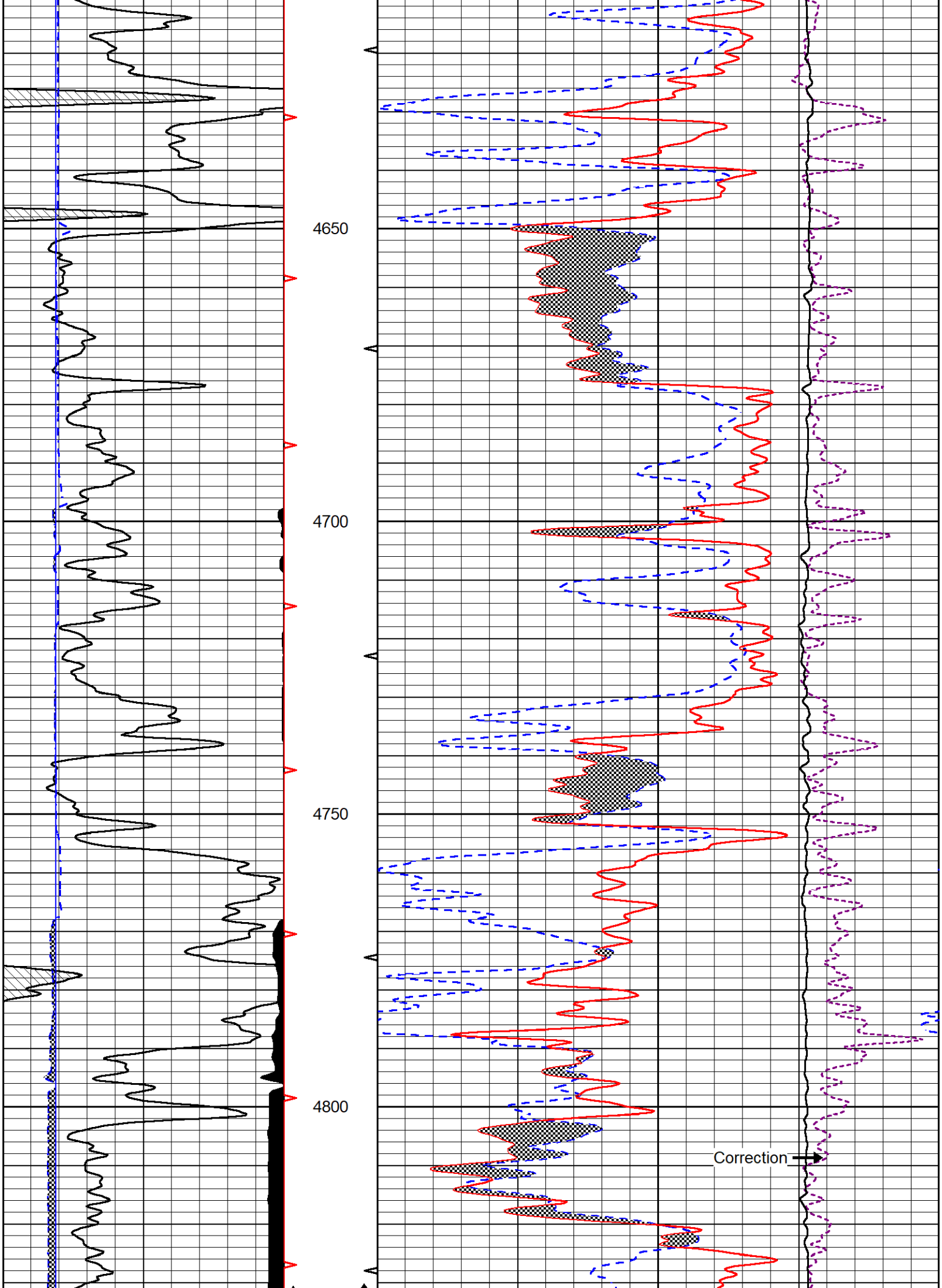

3550
3600
3650
3700

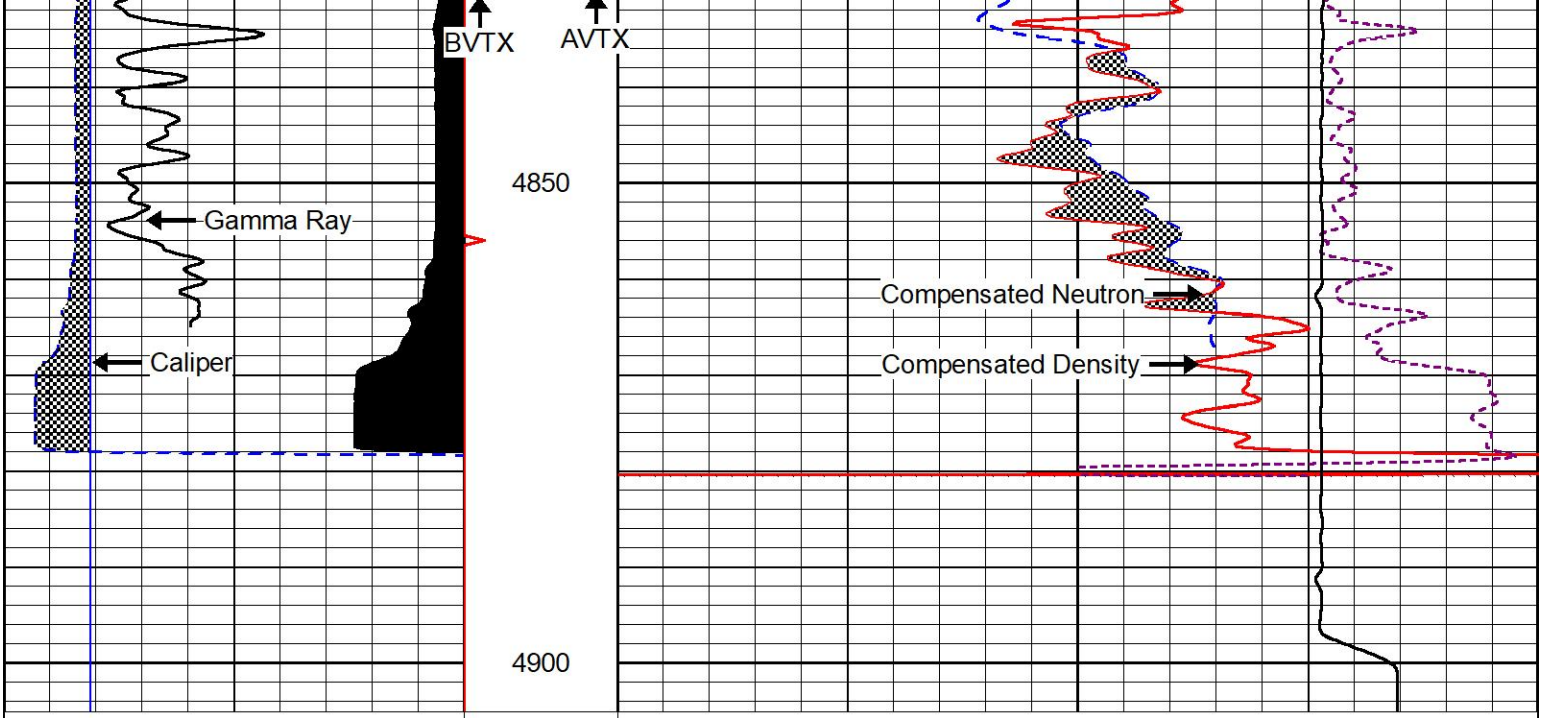

3750
3800
3850
3900
3950


4000
4050
4100
4150


4200
4250
4300
4350


4400
4450
4500
4550
4600


4650
4700
4750
4800
Correction

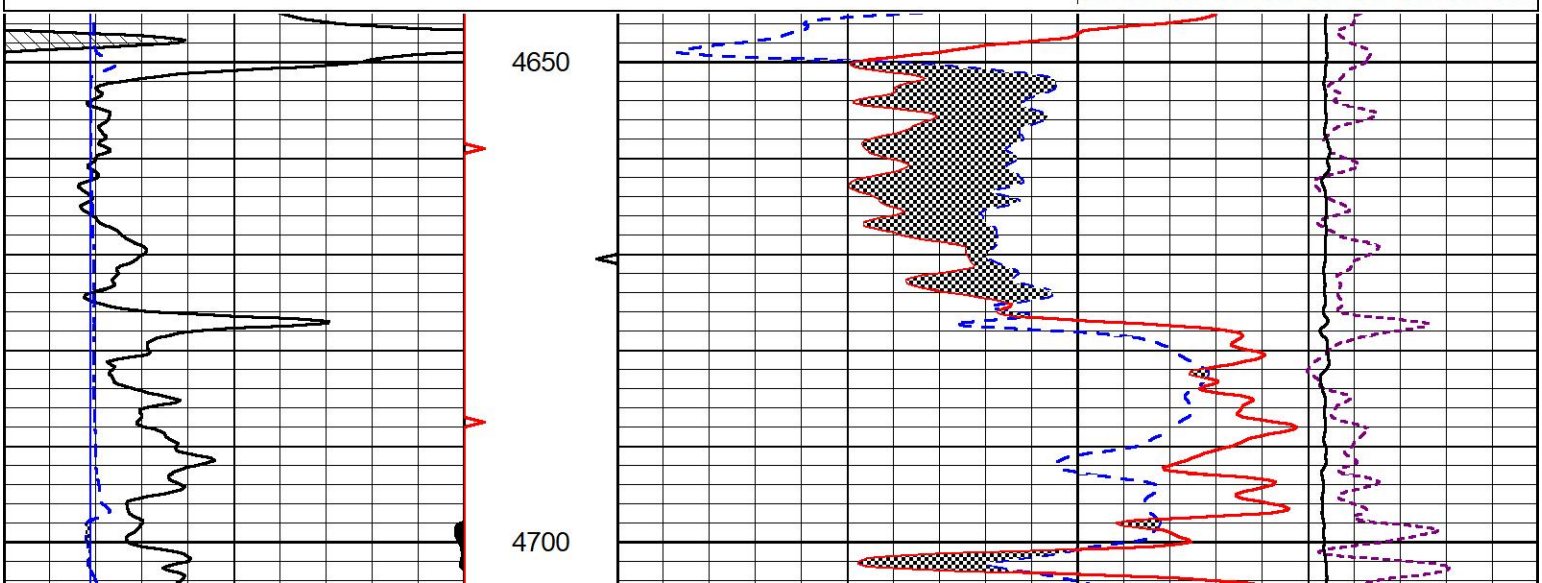


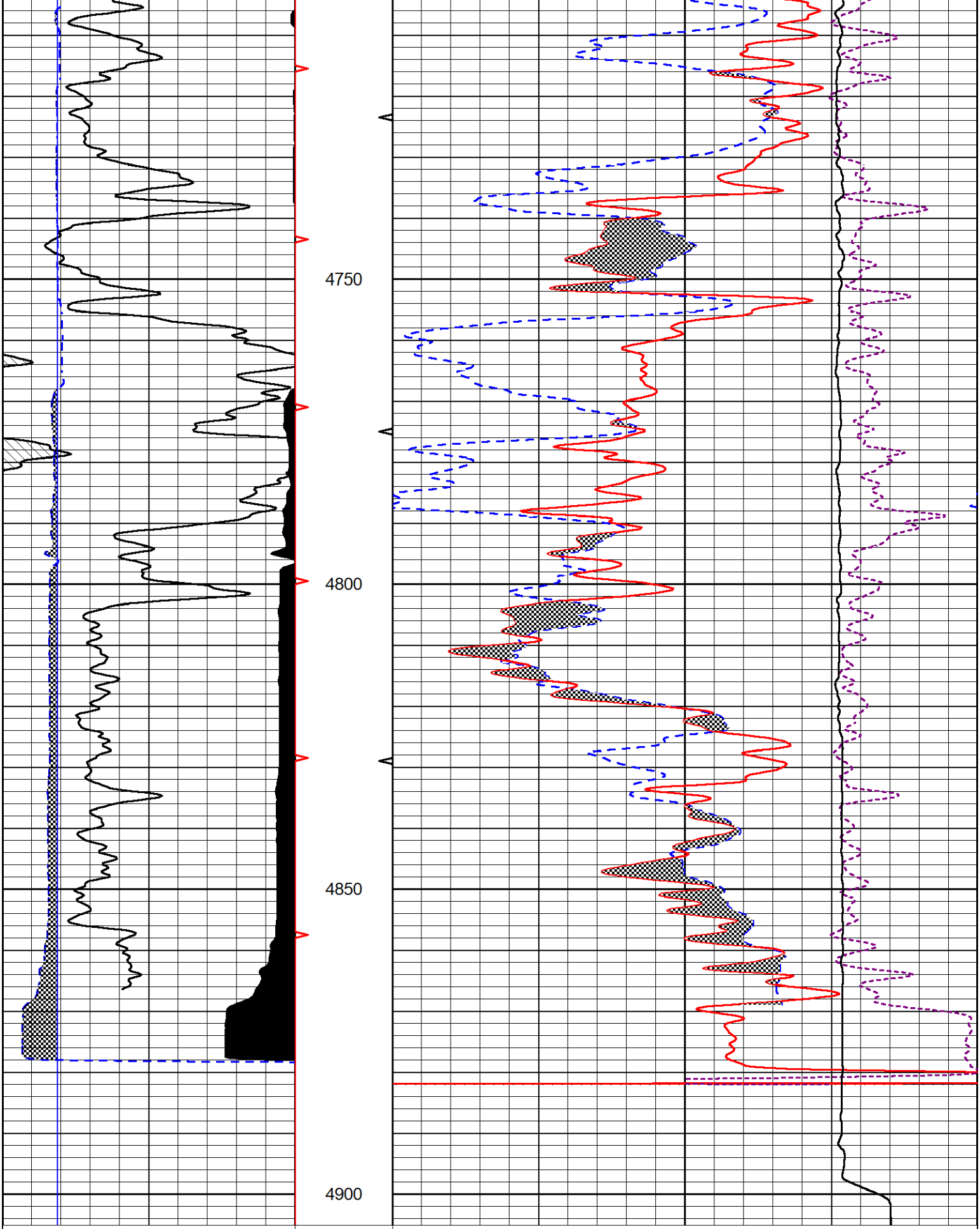
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File	griffin_olivia_1.db
Dataset Pathname	stackml/pass2.1
Presentation Format	_CNDLS~1
Dataset Creation	Wed Jan 26 20:14:07 2022
Charted by	Depth in Feet scaled 1:240




4750
4800
4850
4900
0
GR (GAPI)
150
6
DCAL (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_olivia_1.db
Dataset Pathname stackml/pass4.1
Dataset Creation Wed Jan 26 20:14:55 2022

Dual Induction Calibration Report

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

Microlog Calibration Report

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	15000.0000	-1.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	15000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.2000

Compensated Density Calibration Report

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

Master Calibration

	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

Compensated Neutron Calibration Report

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

Master 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

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

MIDWEST WIRELINE

Company	Griffin Management
Well	Olivia #1
Field	Unnamed
County	Pratt
State	Kansas