



DUAL COMP POROSITY LOG

MIDWEST WIRELINE

CompanyLandmark Resources, Inc.
Well Rose-Wessler Unit #1-34
Field Pence South
County Scott
State Kansas

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Location: API #: 15-171-21289-00-00
NE NE NE SW
2318 FSL & 2365 FWL
SEC 34 TWP 16S RGE 34W
Permanent Datum Ground Level Elevation 3124
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL
MEL/BHCS
K.B. 3132
D.F.
G.L. 3124

Date 6/29/2022

Run Number One
Type Log CNL/CDL
Depth Driller 4870
Depth Logger 4869
Bottom Logged Interval 4841
Top Logged Interval 3400
Type Fluid In Hole Chemical
Salinity, PPM CL 6500
Density 9.4
Level Full
Max. Rec. Temp. F 124
Operating Rig Time 4.5 Hours
Equipment -- Location P-108 HAYS
Recorded By T. Martin
Witnessed By Terry McLeod

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	294	8.625	23	00	294
Two	7.875	294	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.

Log Measured From: Kelly Bushing

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: Terry McLeod
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\landmark_rose-wessler unit #1-34.db
Dataset field/well/StkMI/pass3.13/_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	860	95		4869

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



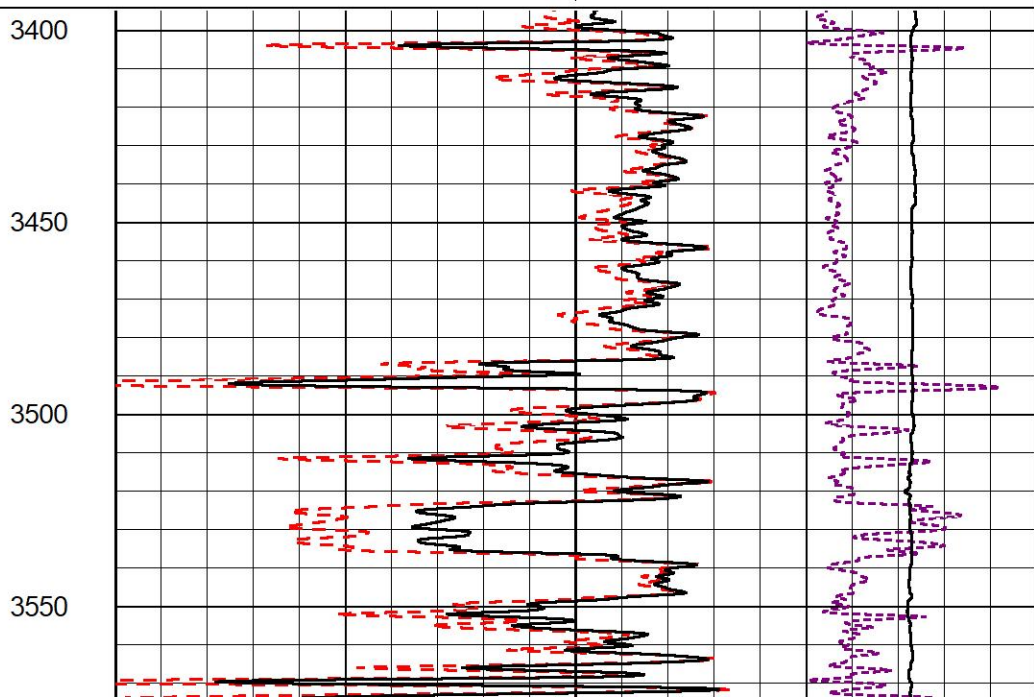
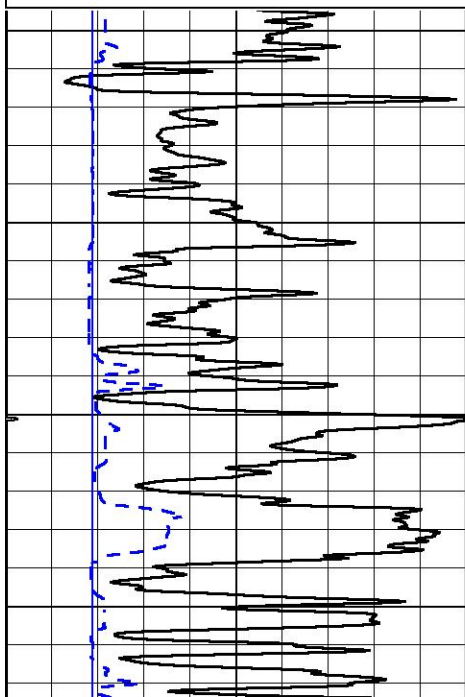
2" SCALE BULK DENSITY

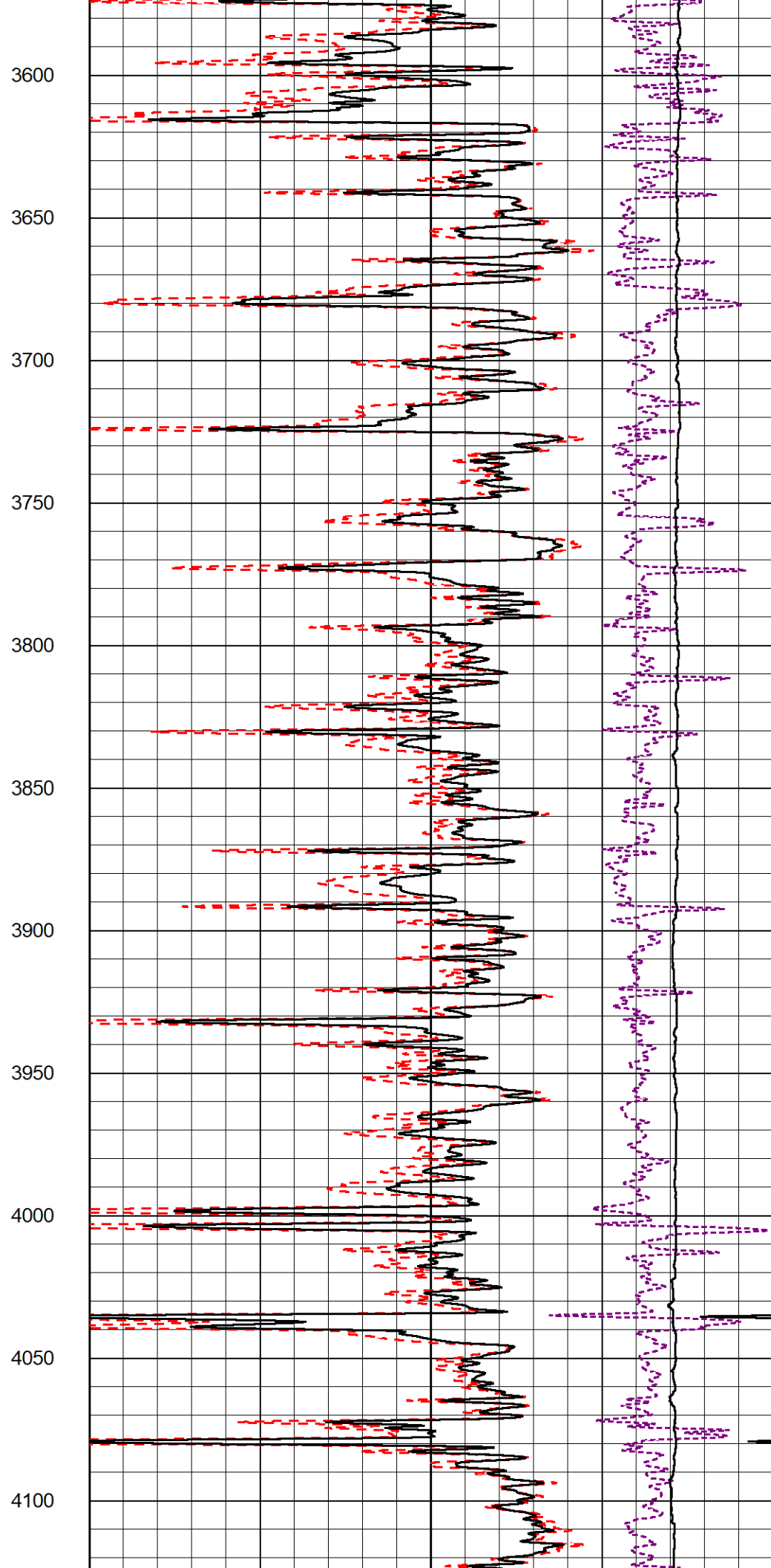
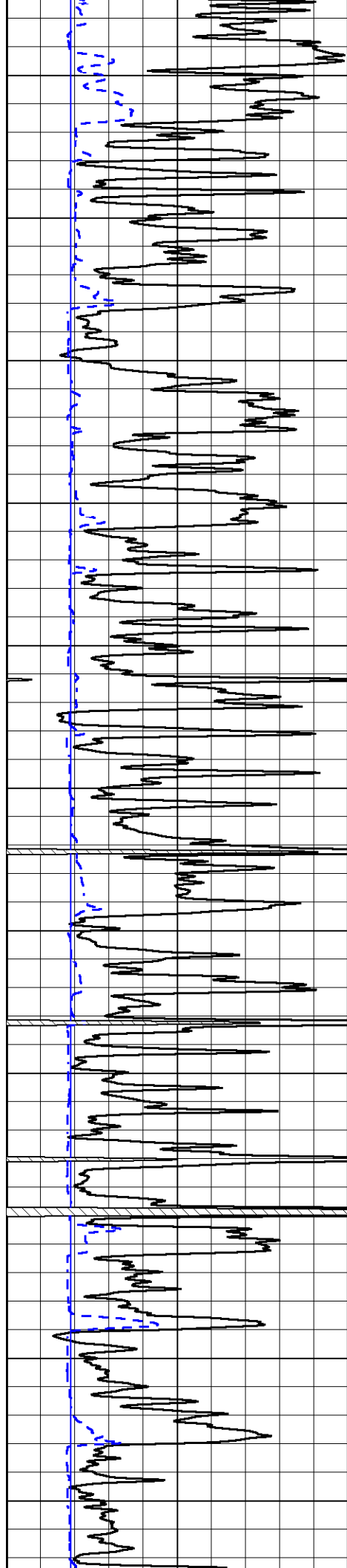
MAIN PASS

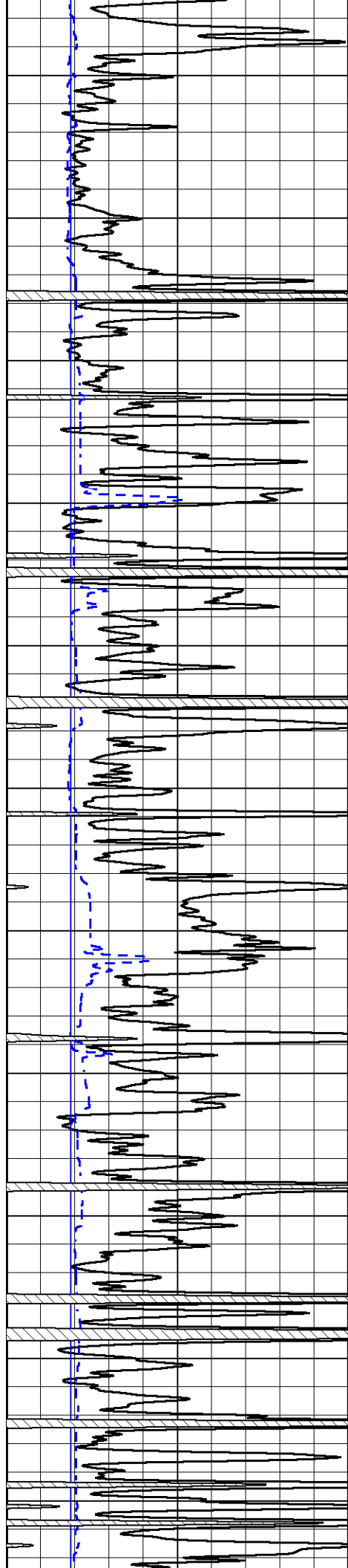
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Dataset Pathname StkMI/pass3.3
Presentation Format _cdl
Dataset Creation Wed Jun 29 17:23:27 2022
Charted by Depth in Feet scaled 1:600

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







4150

4200

4250

4300

4350

4400

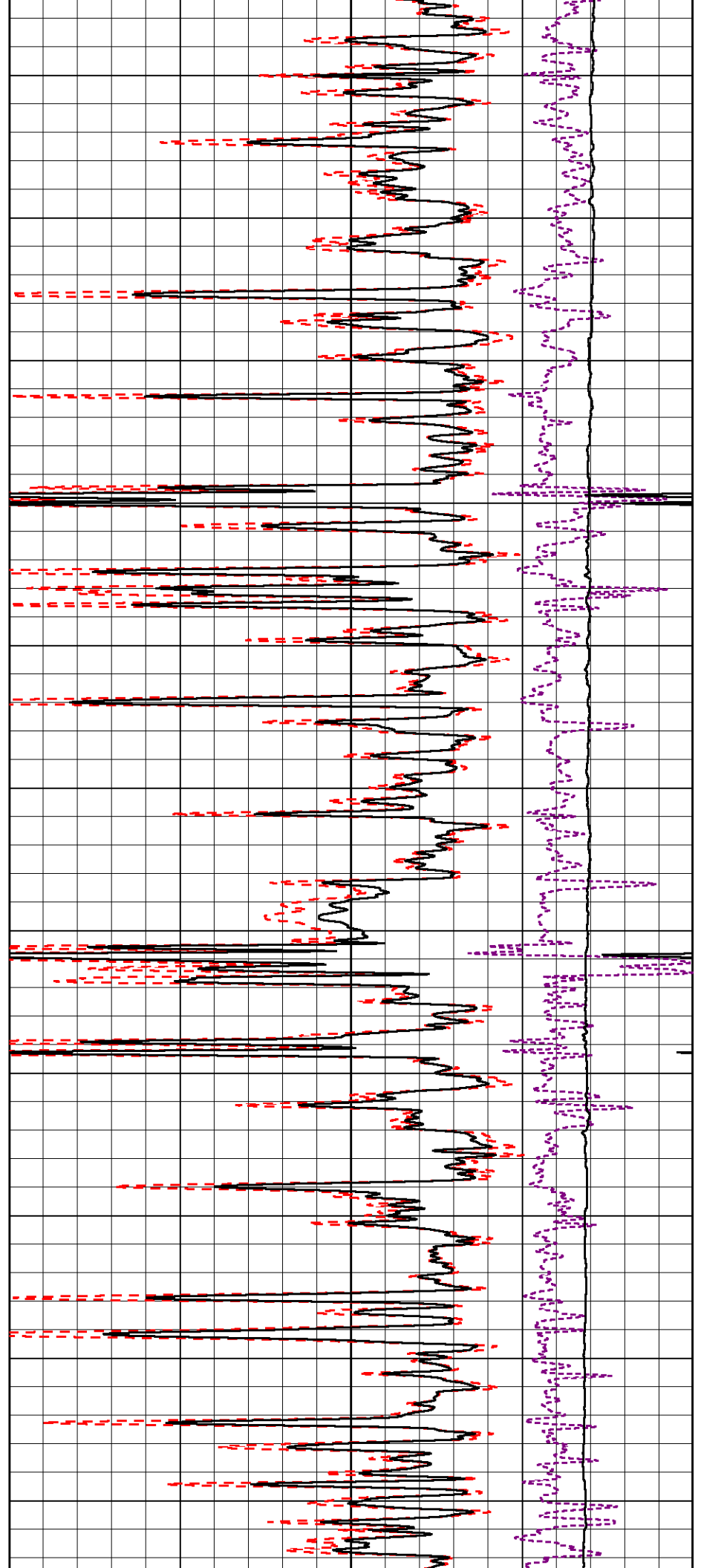
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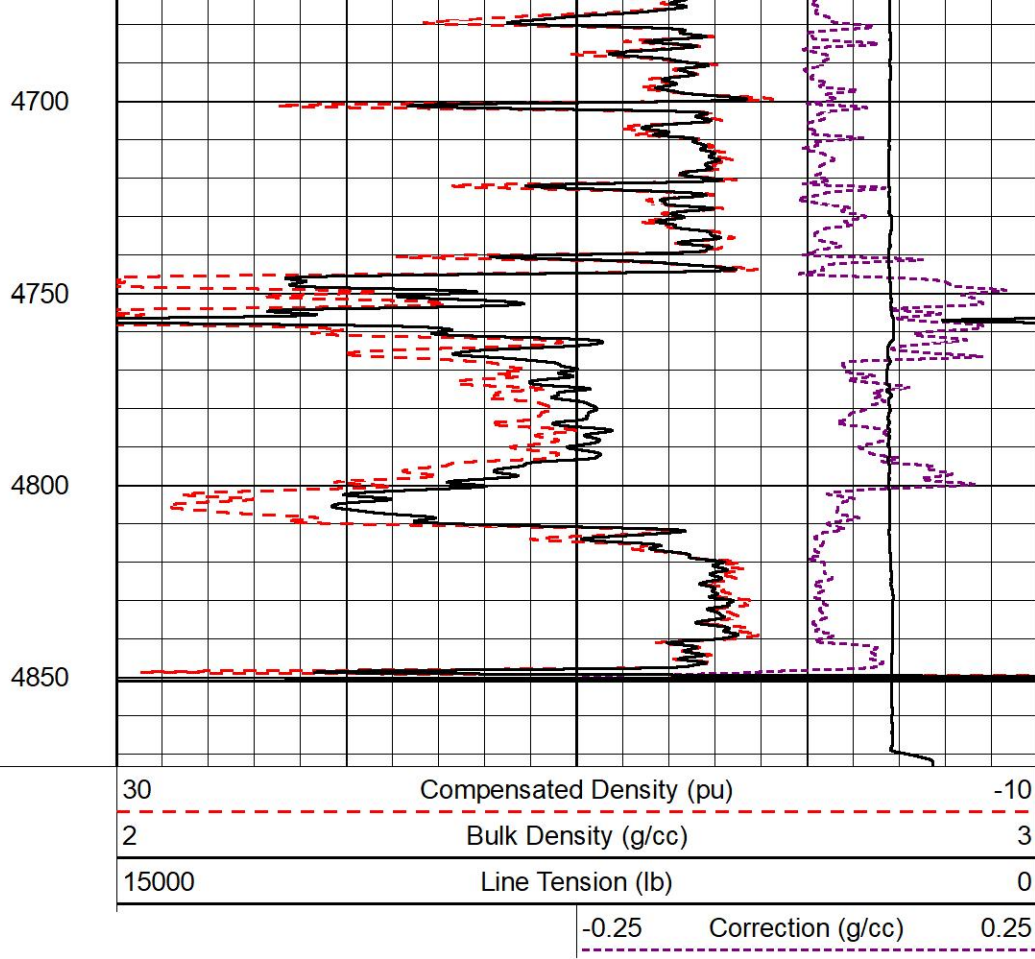
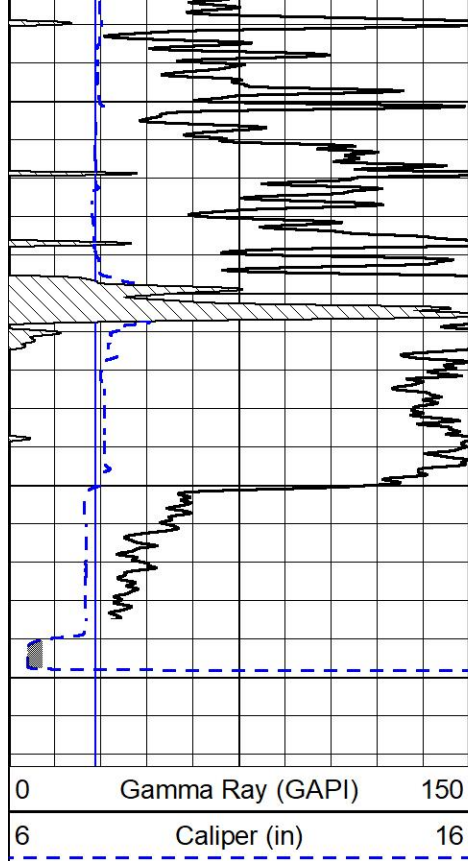
4500

4550

4600

4650



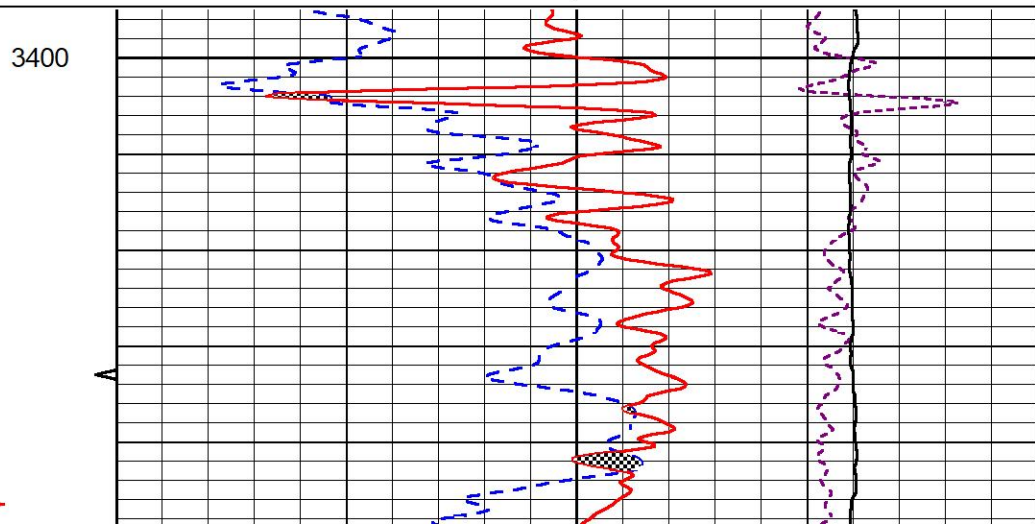
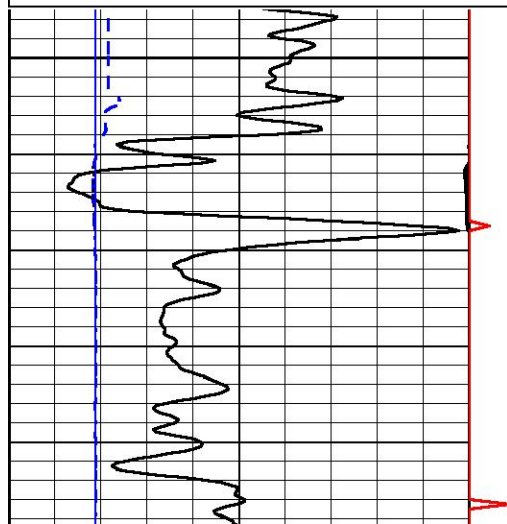
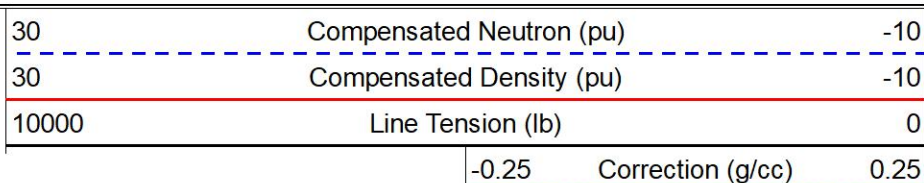
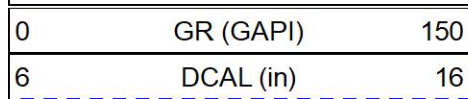


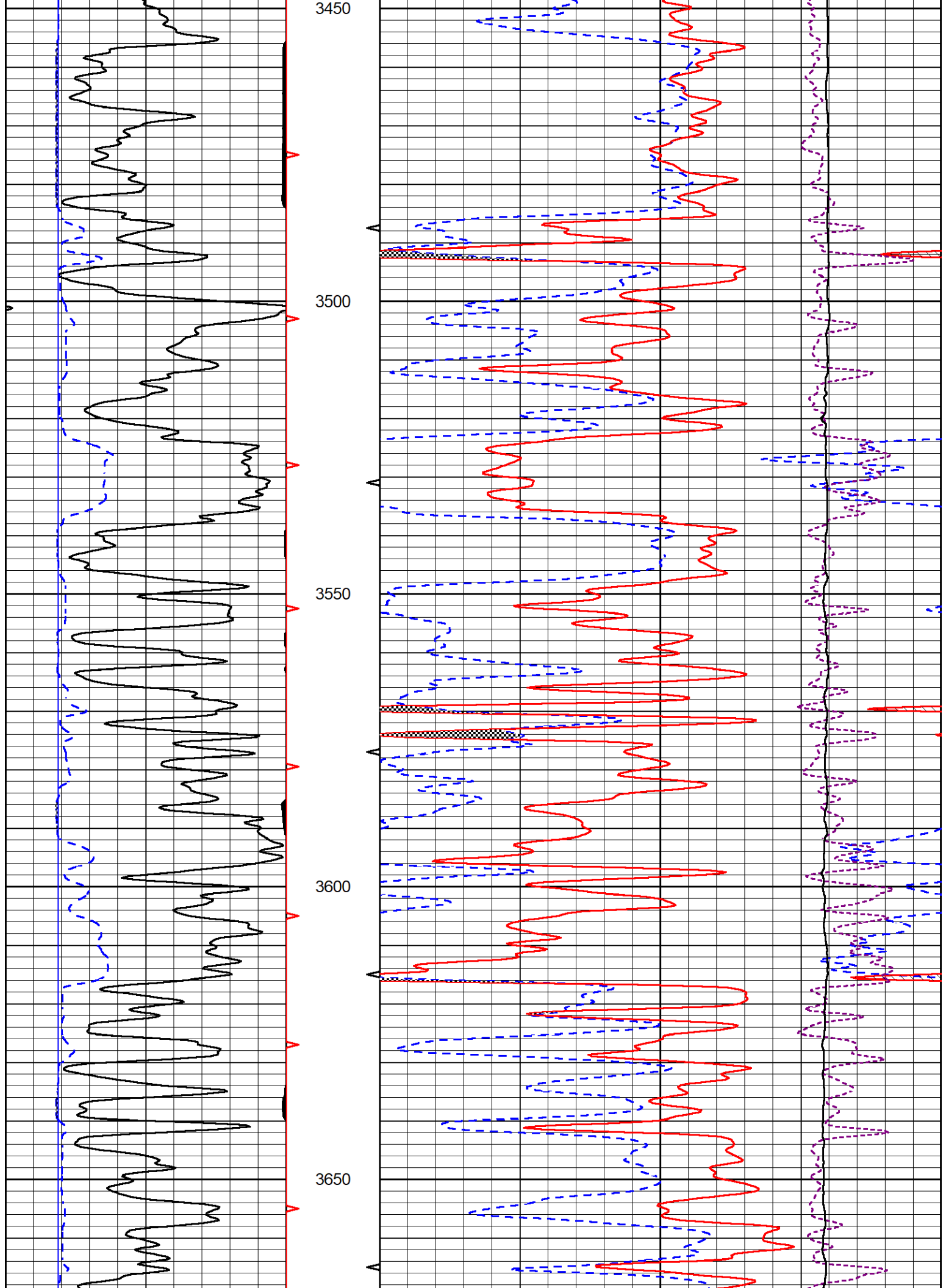
MIDWEST WIRELINE

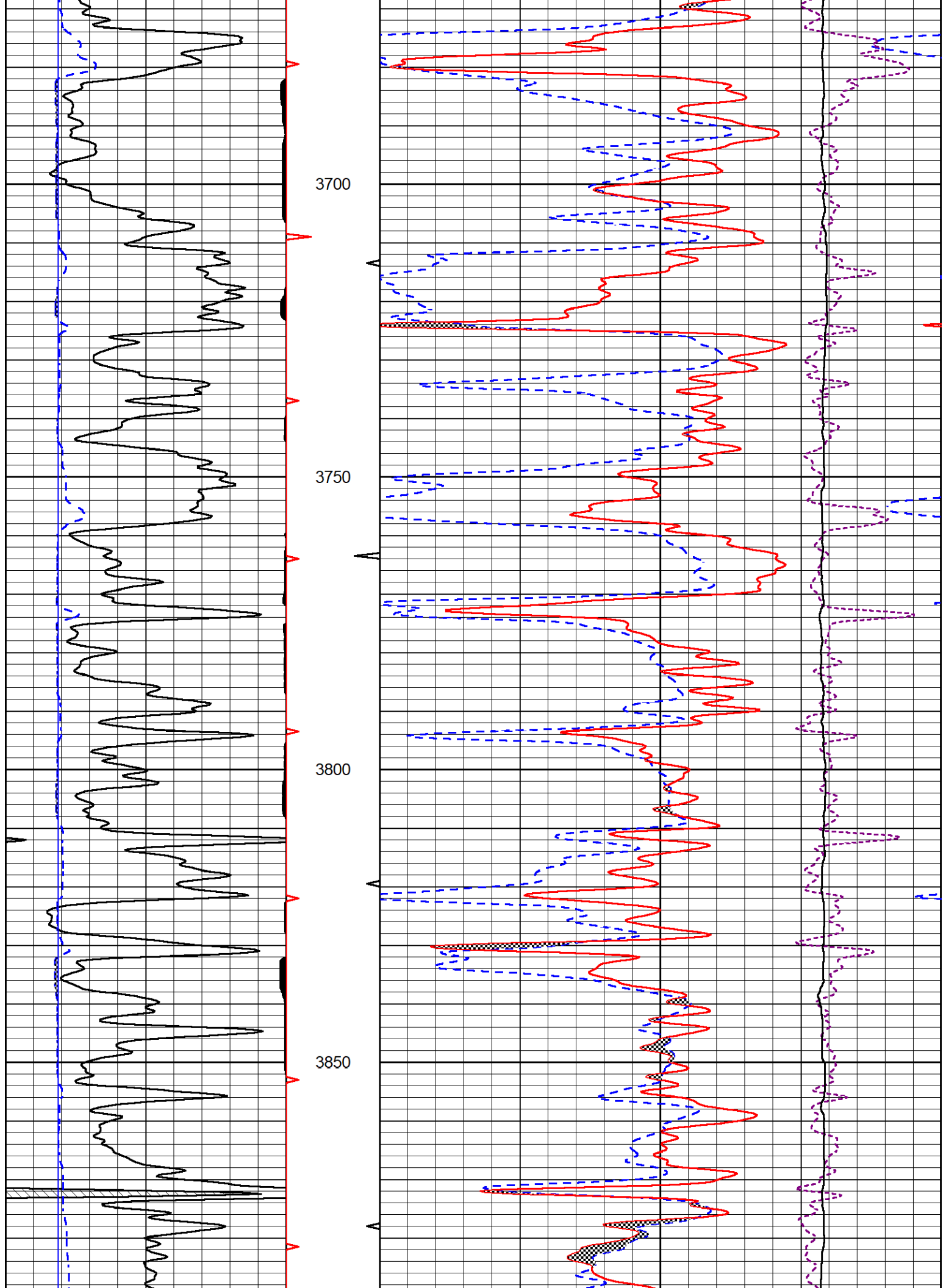
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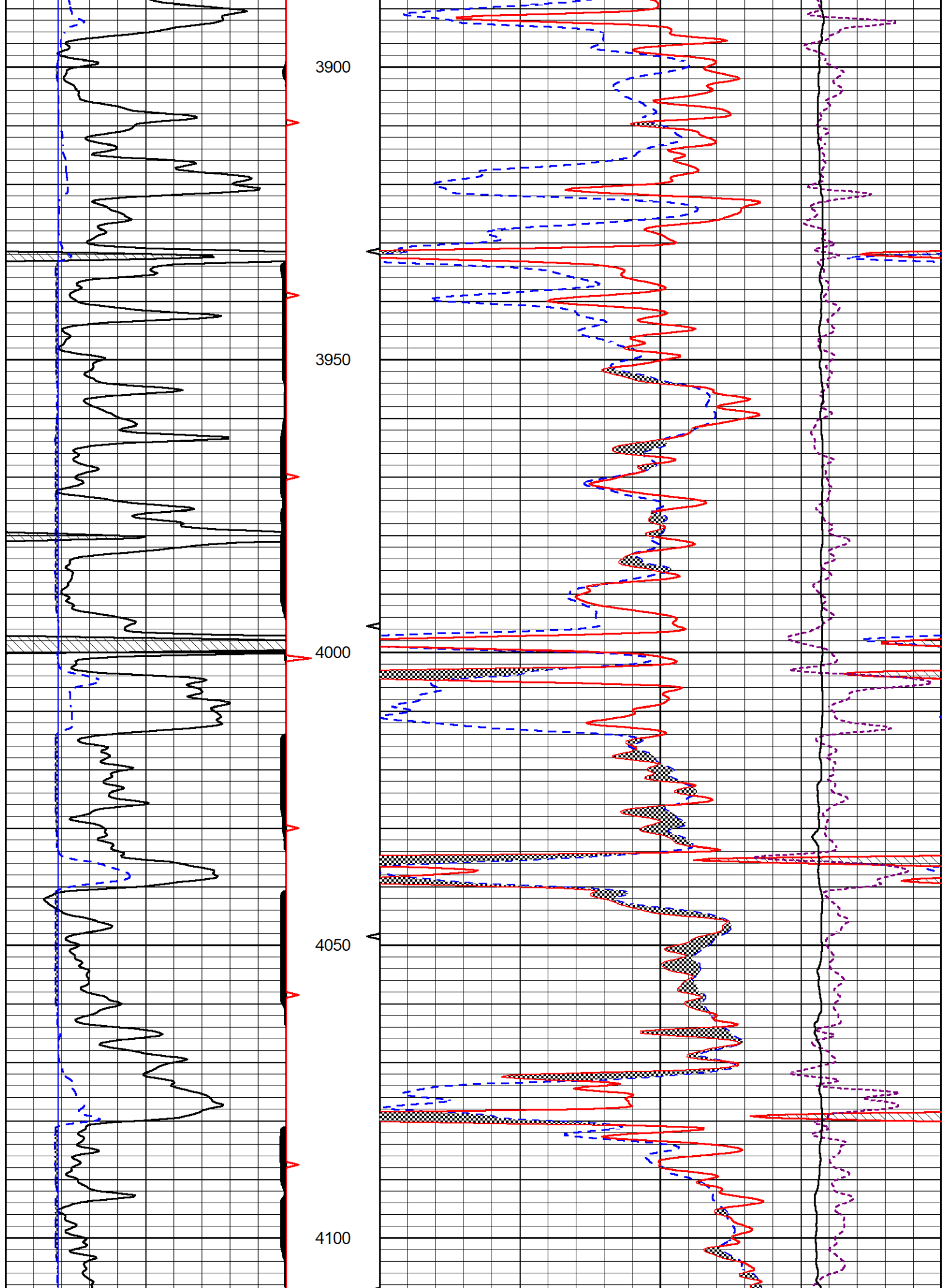
MAIN PASS

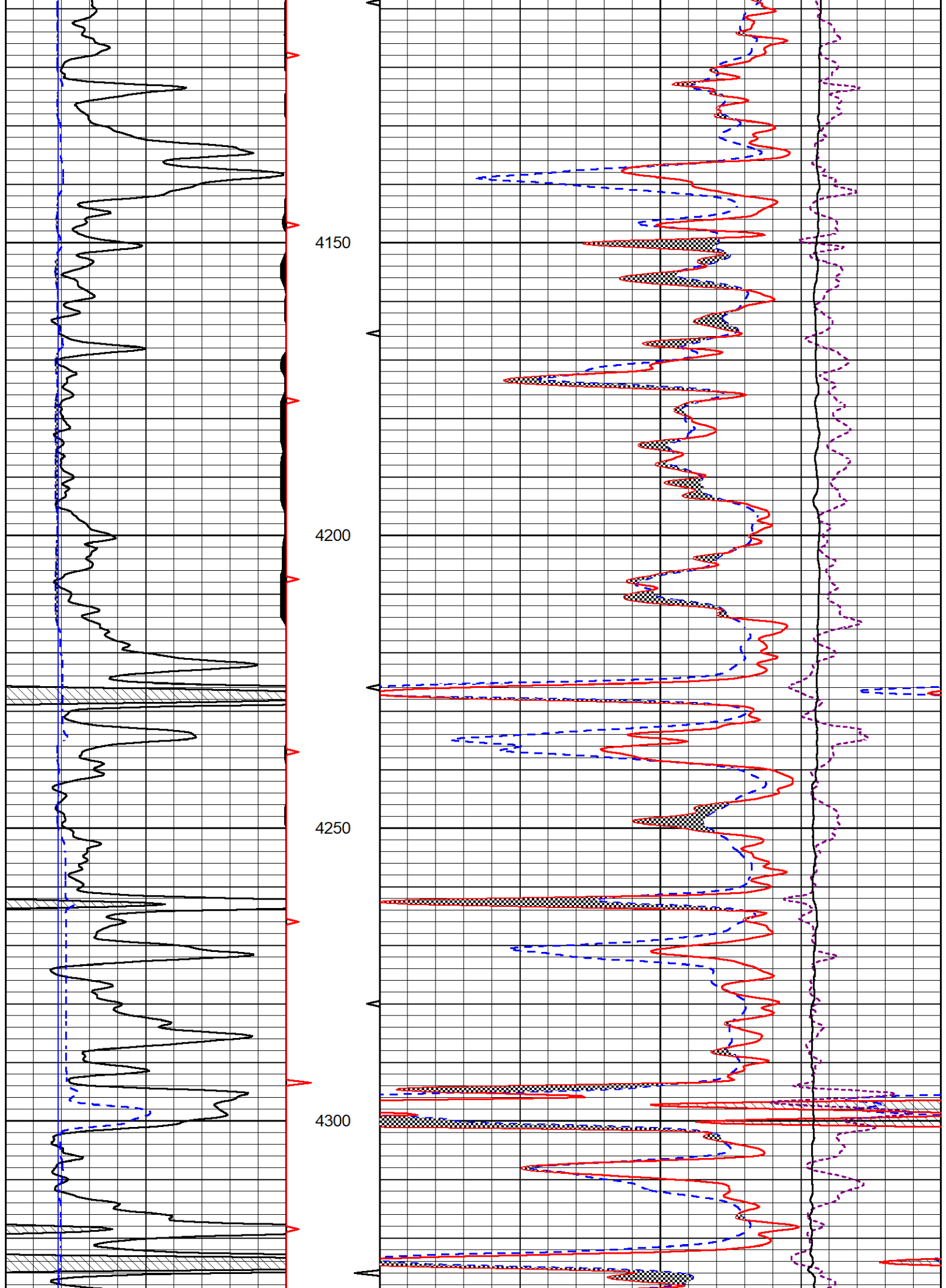
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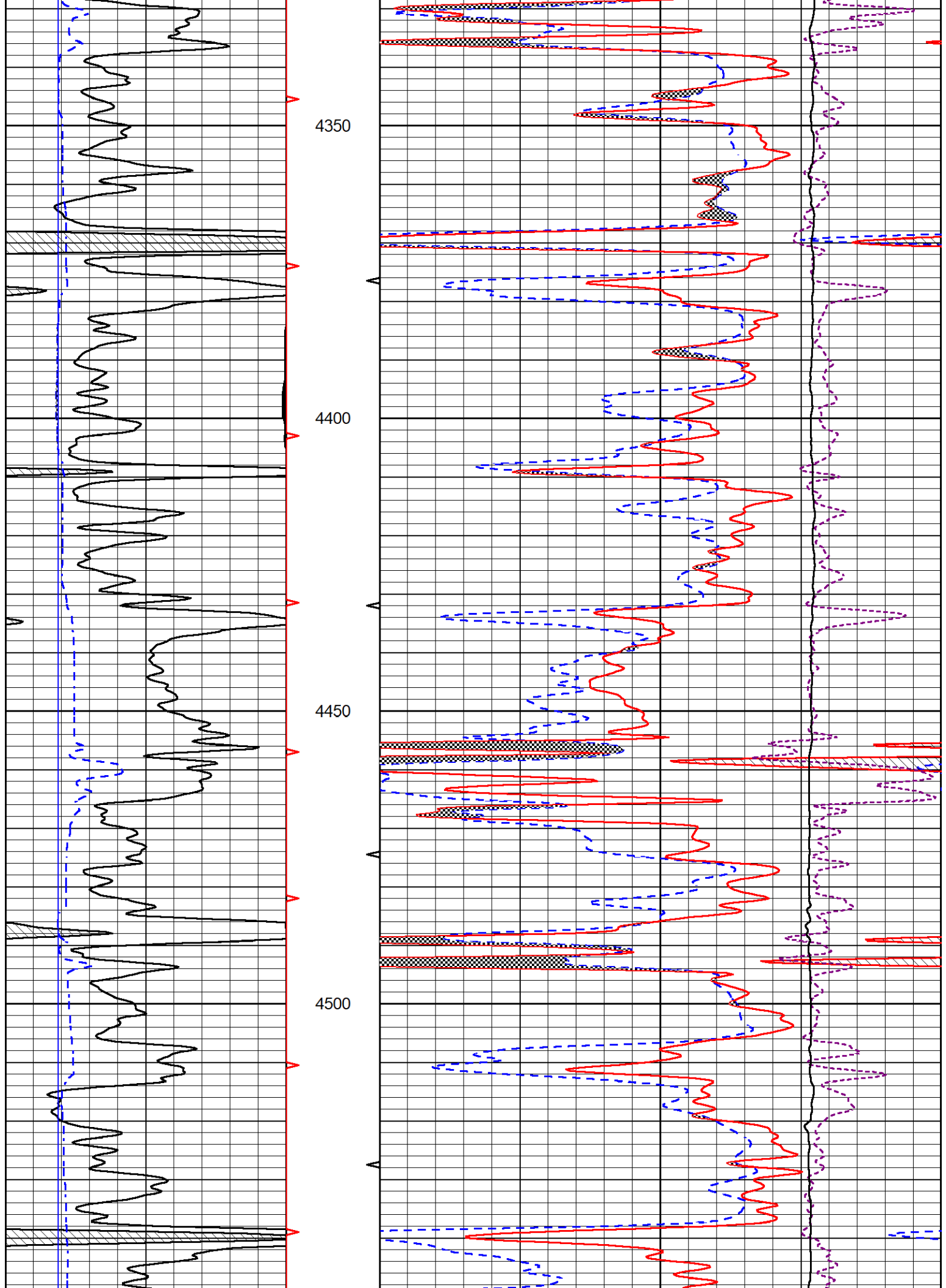


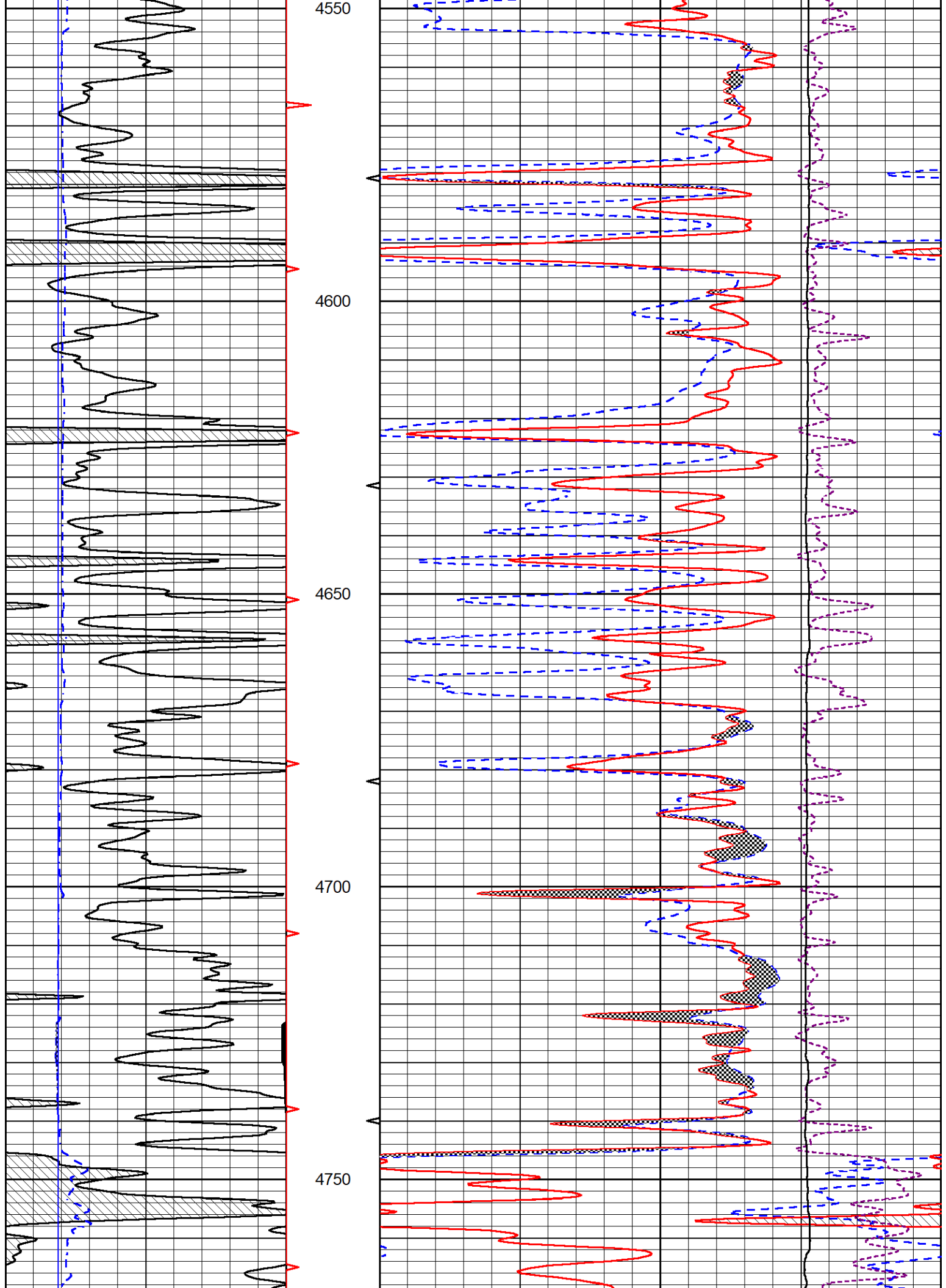


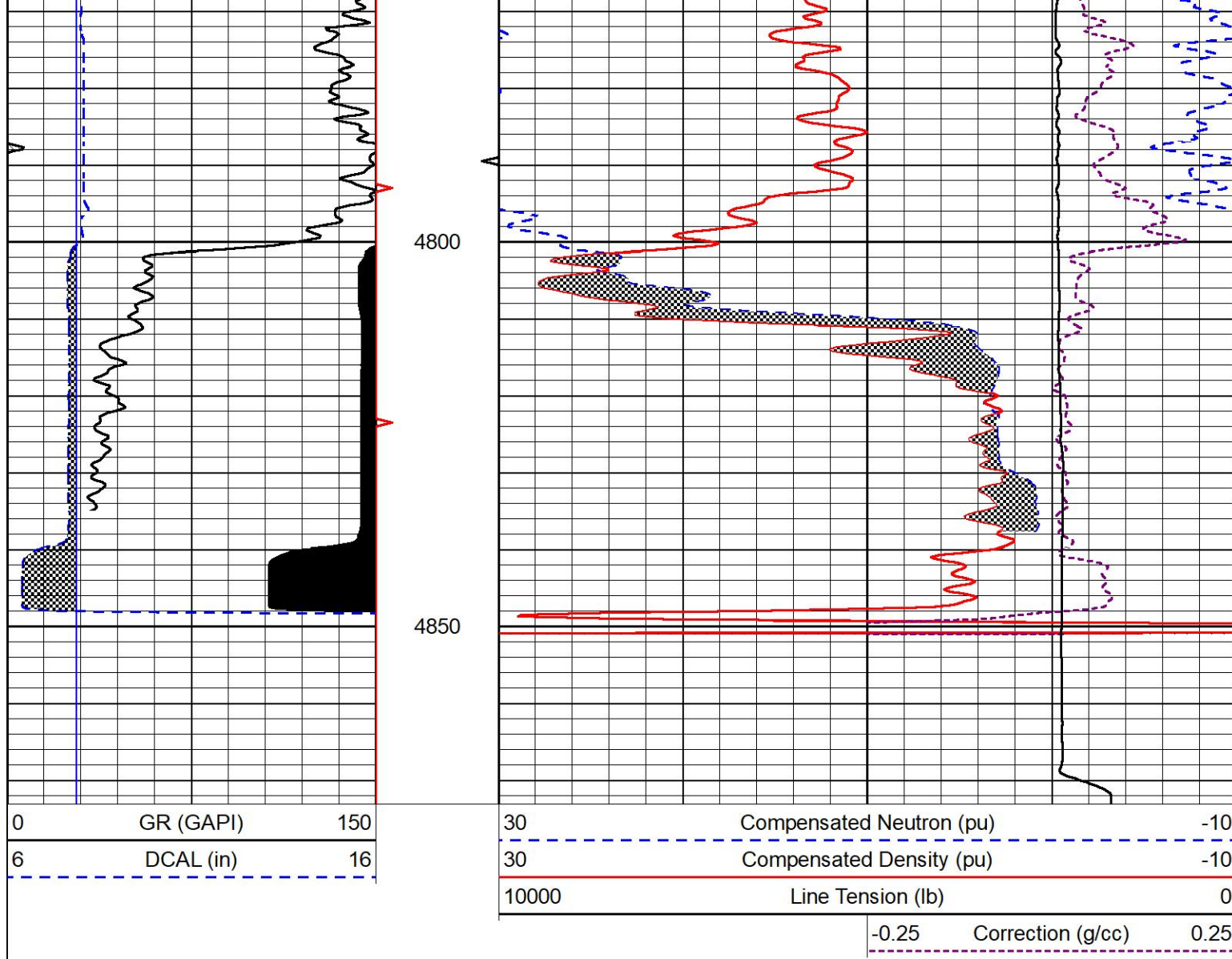










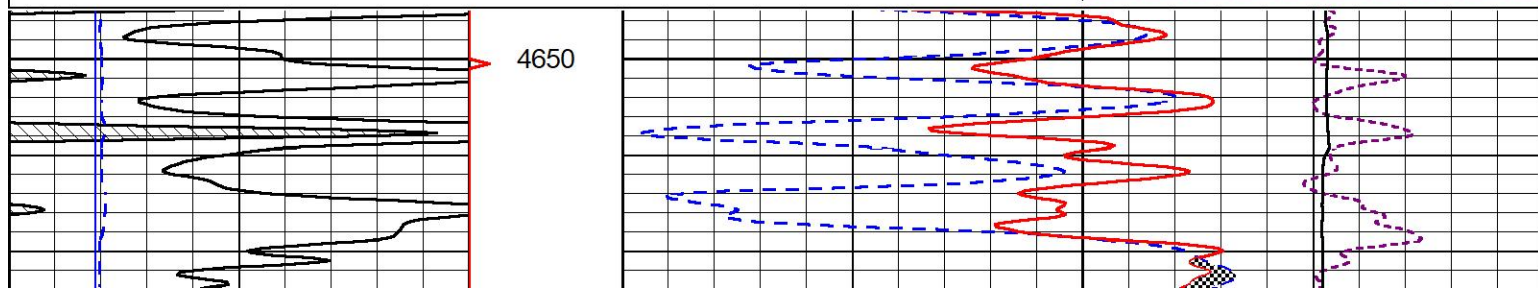
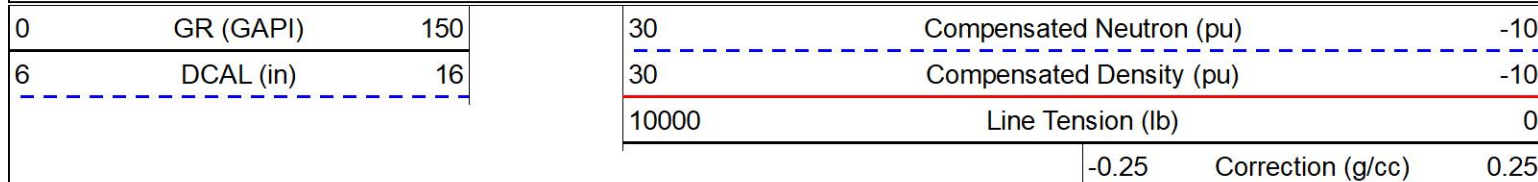


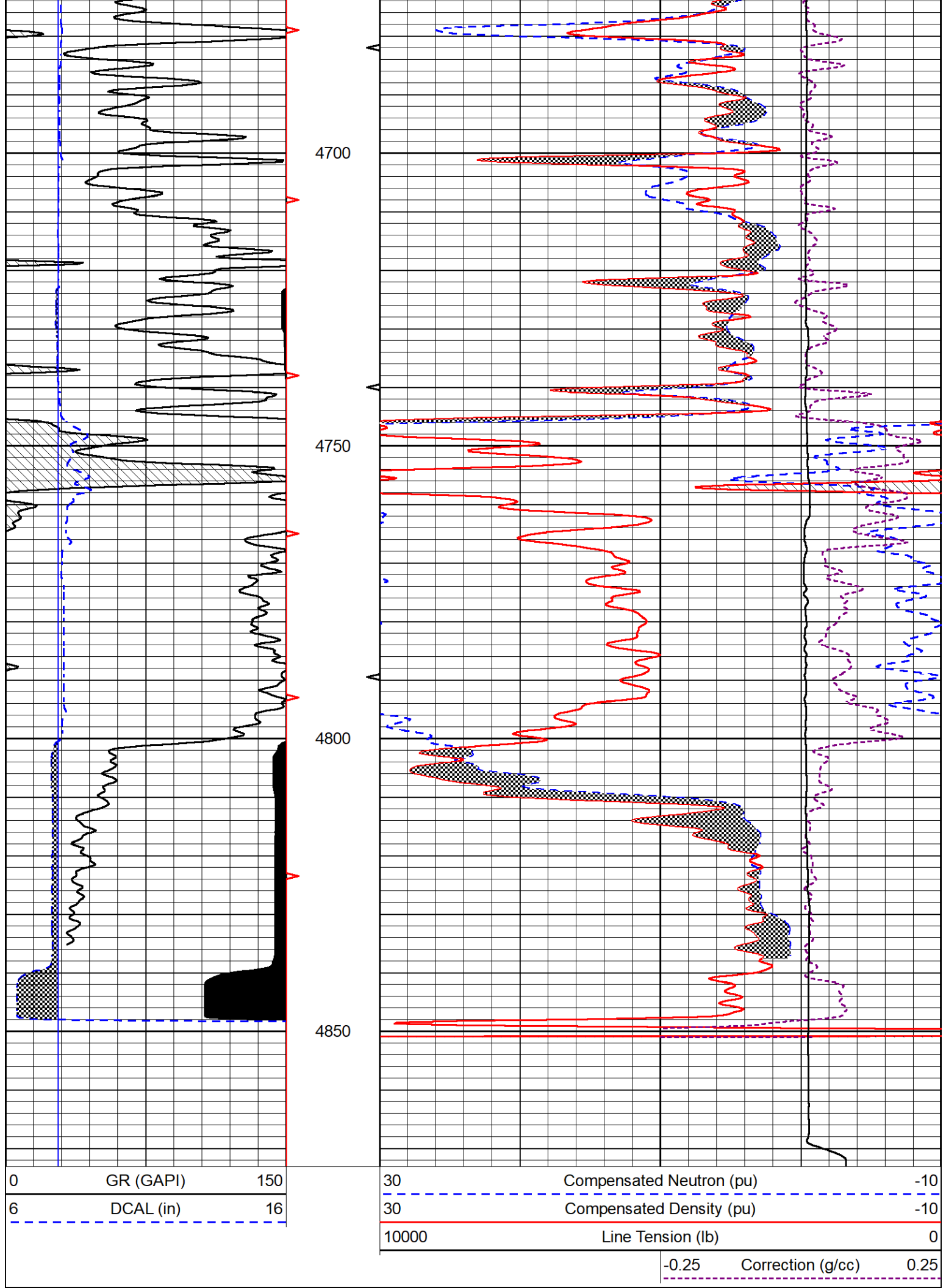
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File landmark_rose-wessler unit #1-34.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Wed Jun 29 17:21:47 2022
 Charted by Depth in Feet scaled 1:240





Calibration Report	
Database File	landmark_rose-wessler unit #1-34.db
Dataset Pathname	StkMI/pass3.13
Dataset Creation	Wed Jun 29 18:18:23 2022

Dual Induction Calibration Report

Serial-Model:	504 HT-M&W
Surface Cal Performed:	Wed Jun 29 12:51:29 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-15.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-50.750

Microlog Calibration Report

Serial-Model:	401-PSI STKBL ML
Performed:	Wed Jun 29 12:51:40 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	24000.0000	-0.8000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	18700.0000	0.0000
Caliper	1.0049	1.0846	5.5000	20.0000	in	165.0000	-161.8000

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	1.03			

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



Company	Landmark Resources, Inc.
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Field	Pence South
County	Scott
State	Kansas