



MIDWEST WIRELINE

DUAL COMP POROSITY LOG

CompanyHawkins Oil LLC		Company Hawkins Oil LLC					
Well	JW Smith #5B	Well	JW Smith #5B				
Field	Augusta	Field	Augusta				
County	Butler	County	Butler				
State	Kansas	State	Kansas				
Location:		API # : 15-15-24190-00-00	Other Services				
SEC 20 TWP 28S RGE 4E		DIL/MEL					
Permanent Datum	Ground Level	Elevation	1272				
Log Measured From	Kelly Bushing	K.B.	1281				
Drilling Measured From	Kelly Bushing	D.F.					
		G.L.	1272				
Date	3/1/2023						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	2936						
Depth Logger	2937						
Bottom Logged Interval	2908						
Top Logged Interval	1450						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	900						
Density	9.2						
Level	Full						
Max. Rec. Temp. F	109						
Operating Rig Time	2 Hours						
Equipment -- Location	P-24 Hays						
Recorded By	T. Martin						
Witnessed By	Bill Stout						
Borehole Record		Casing Record					
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	218	8.625	23	00	218
Two	7.875	218	TD				

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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.

Andover, KS, 5 E on 400 to SW Santa Fe Lake Rd,
5 S to SW 150th, 1 E to SW Diamond Rd, 3/4 S, E into

Log Measured From: Kelly Bushing6 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
Operator:
Operator:
Operator:

Primary Witness: Bill Stout
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\hawkins_jw smith #5b.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	105	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	60	40		2937

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



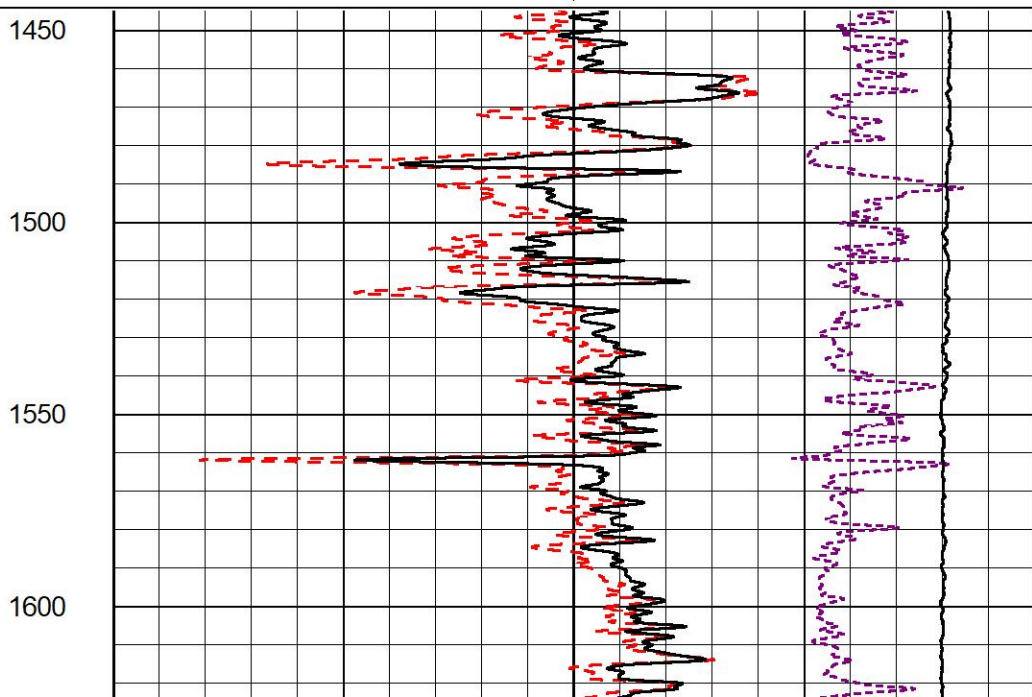
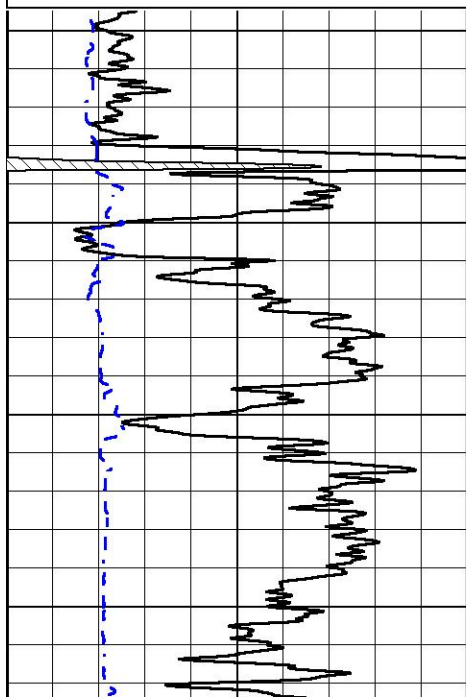
2" SCALE BULK DENSITY

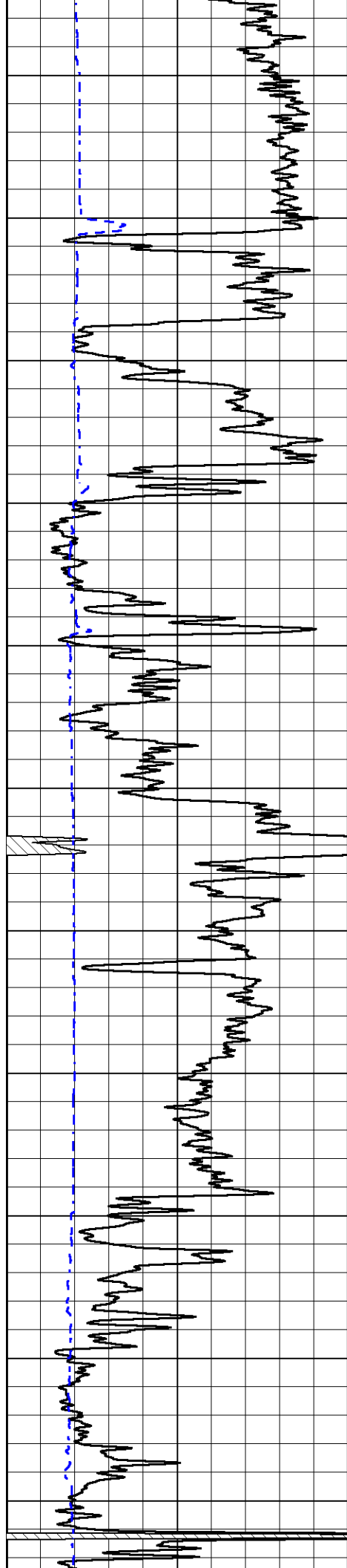
MAIN PASS

Database File hawkins_jw smith #5b.db
Dataset Pathname StkMI/pass3.3
Presentation Format _cdl
Dataset Creation Wed Mar 01 10:58:29 2023
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





1650

1700

1750

1800

1850

1900

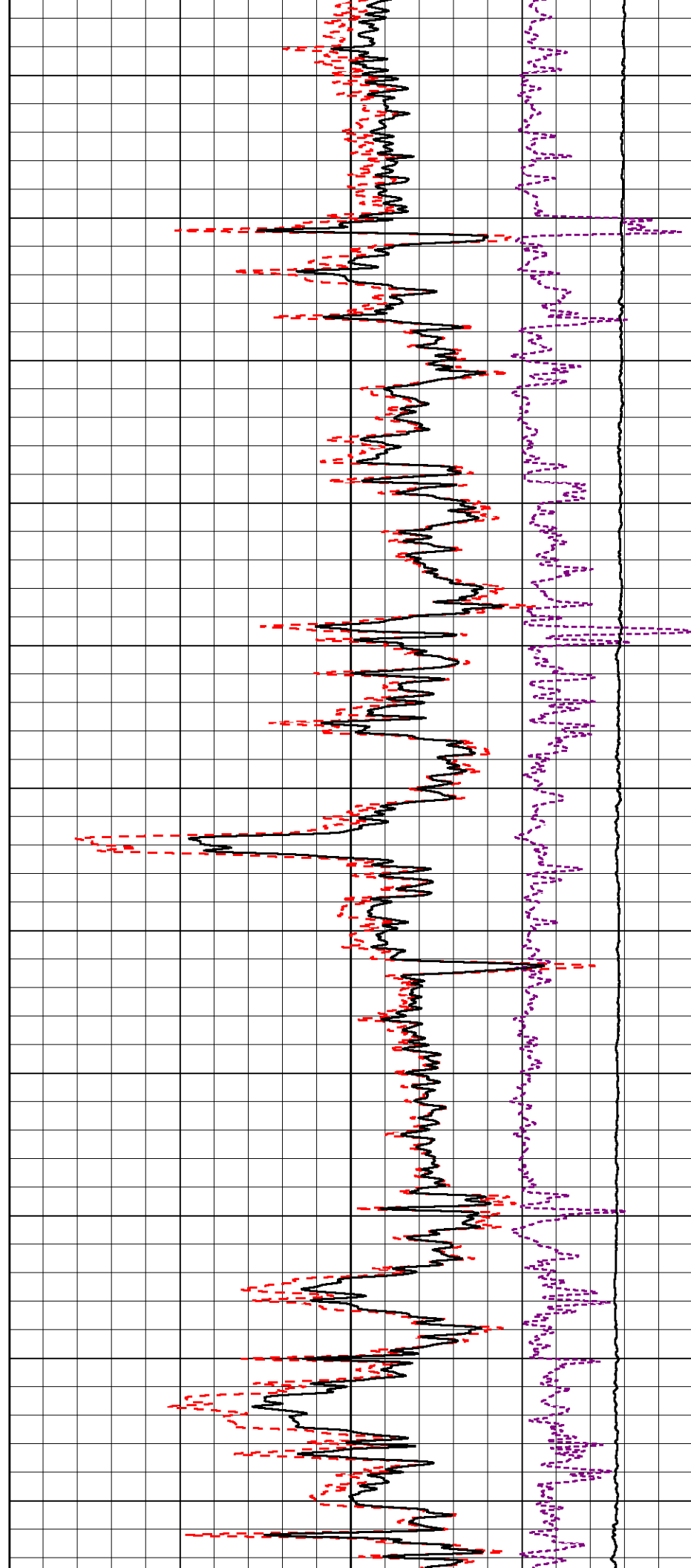
1950

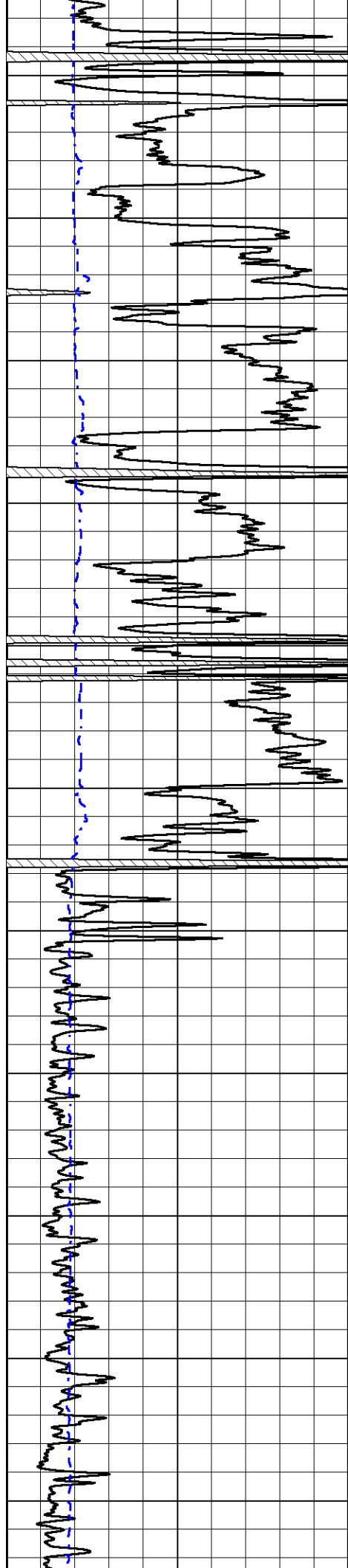
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2050

2100

2150





2200

2250

2300

2350

2400

2450

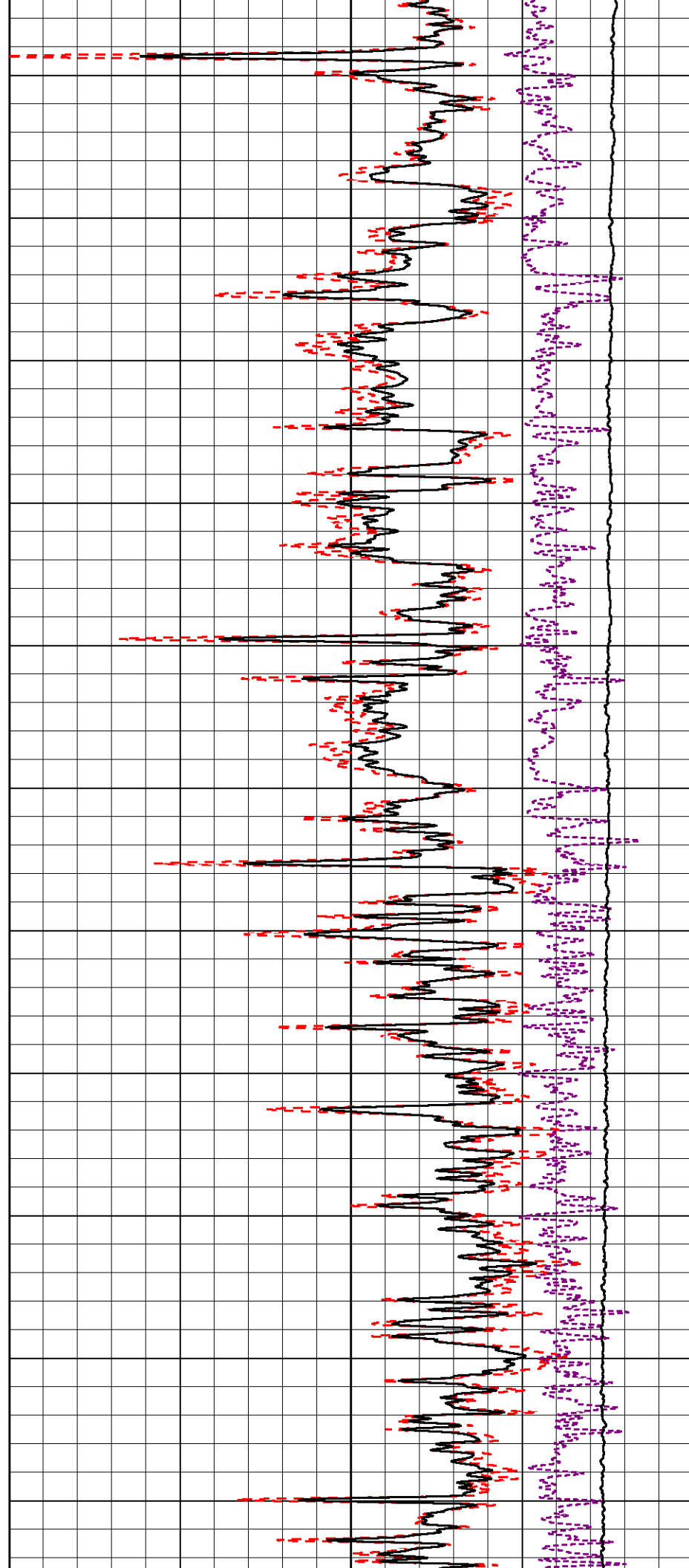
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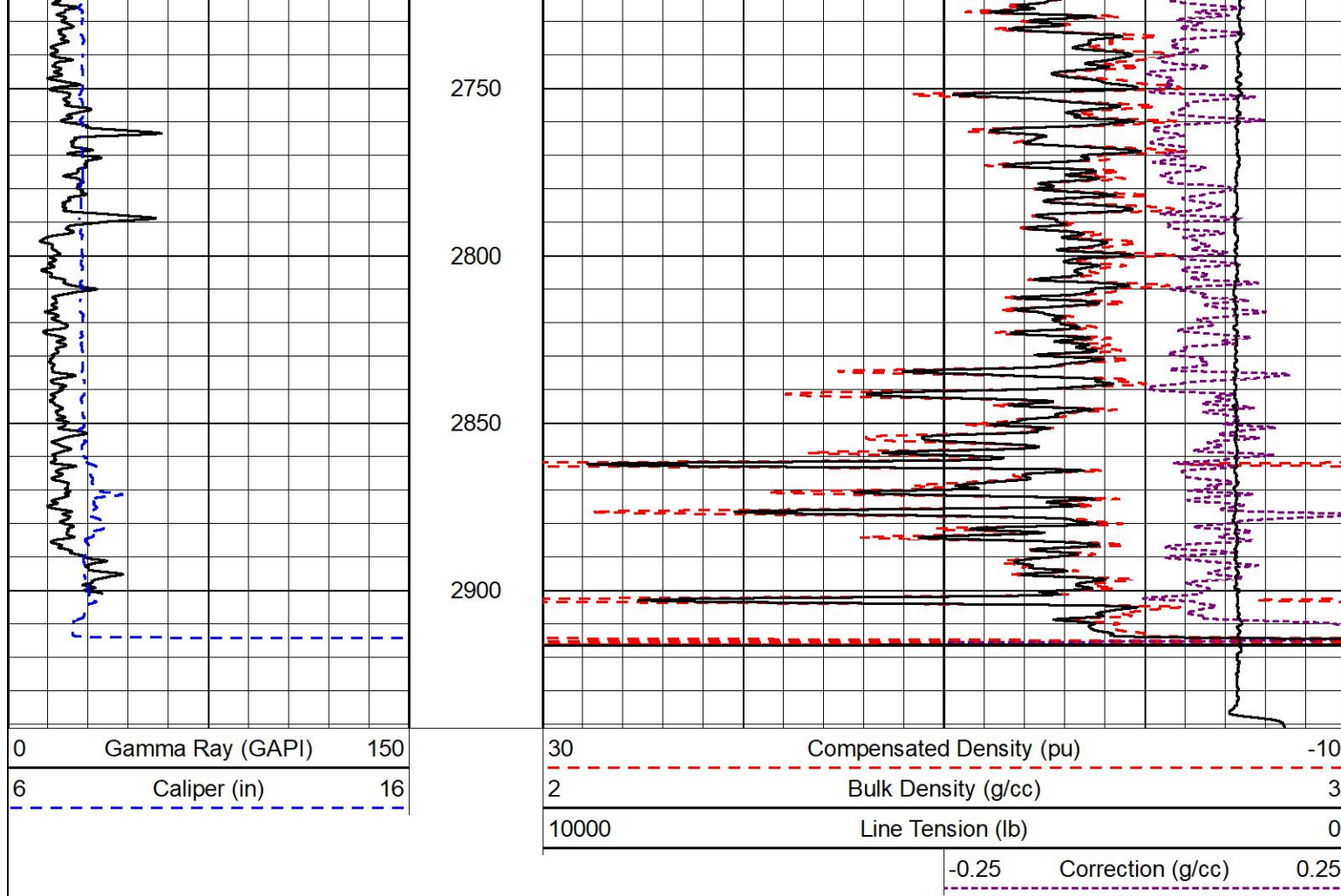
2550

2600

2650

2700



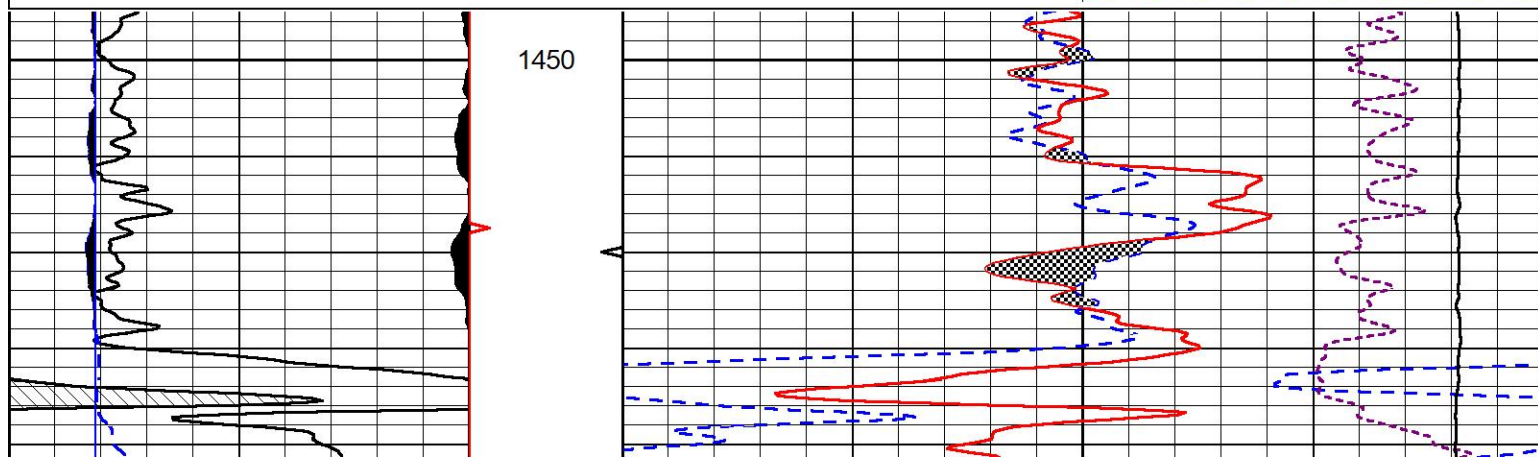
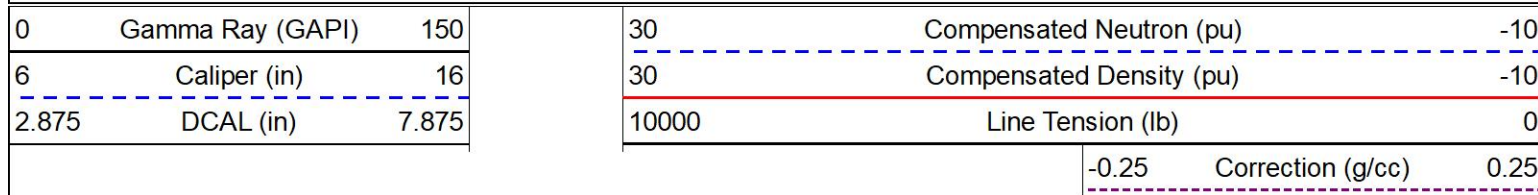


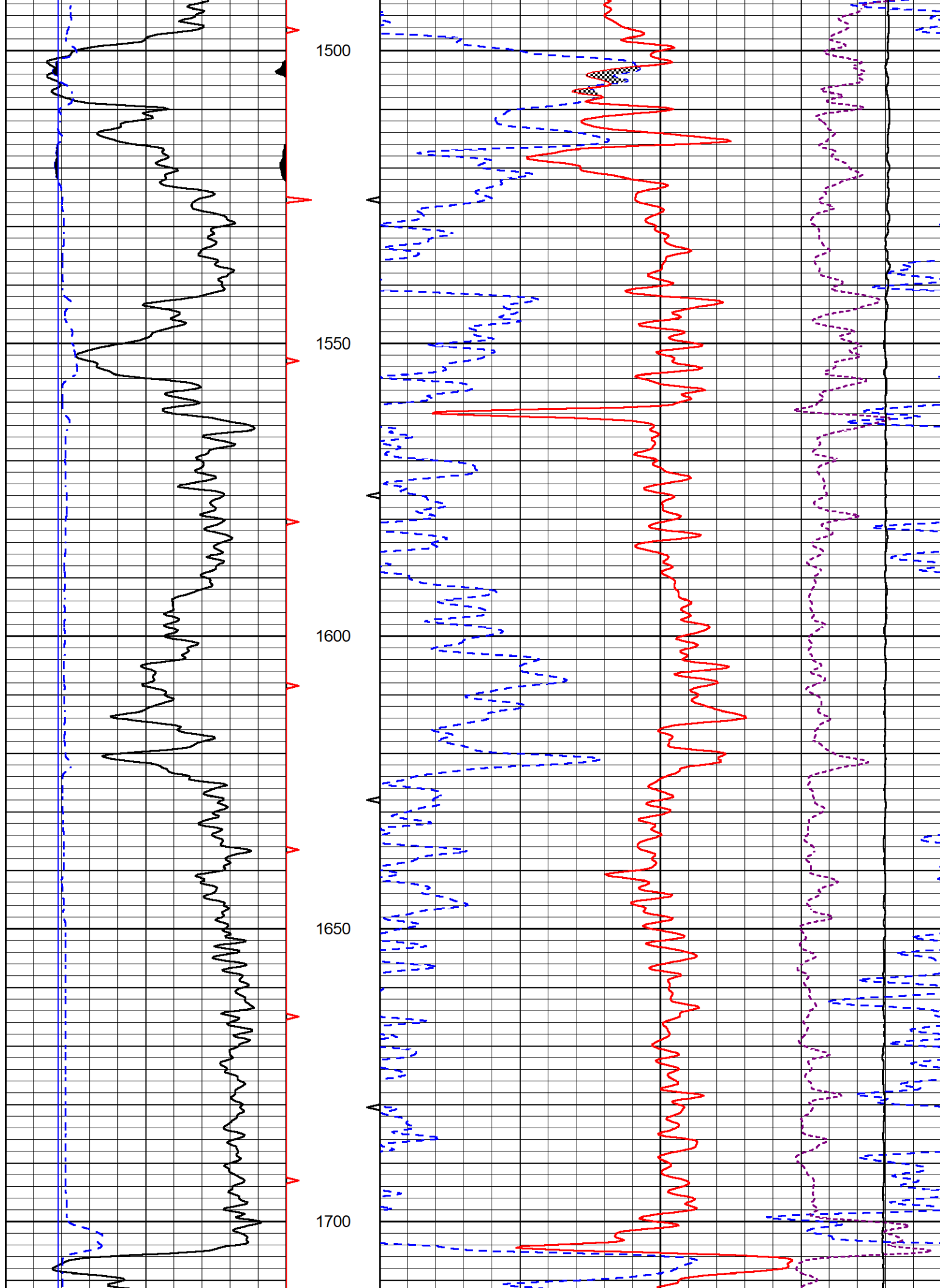
MIDWEST WIRELINE

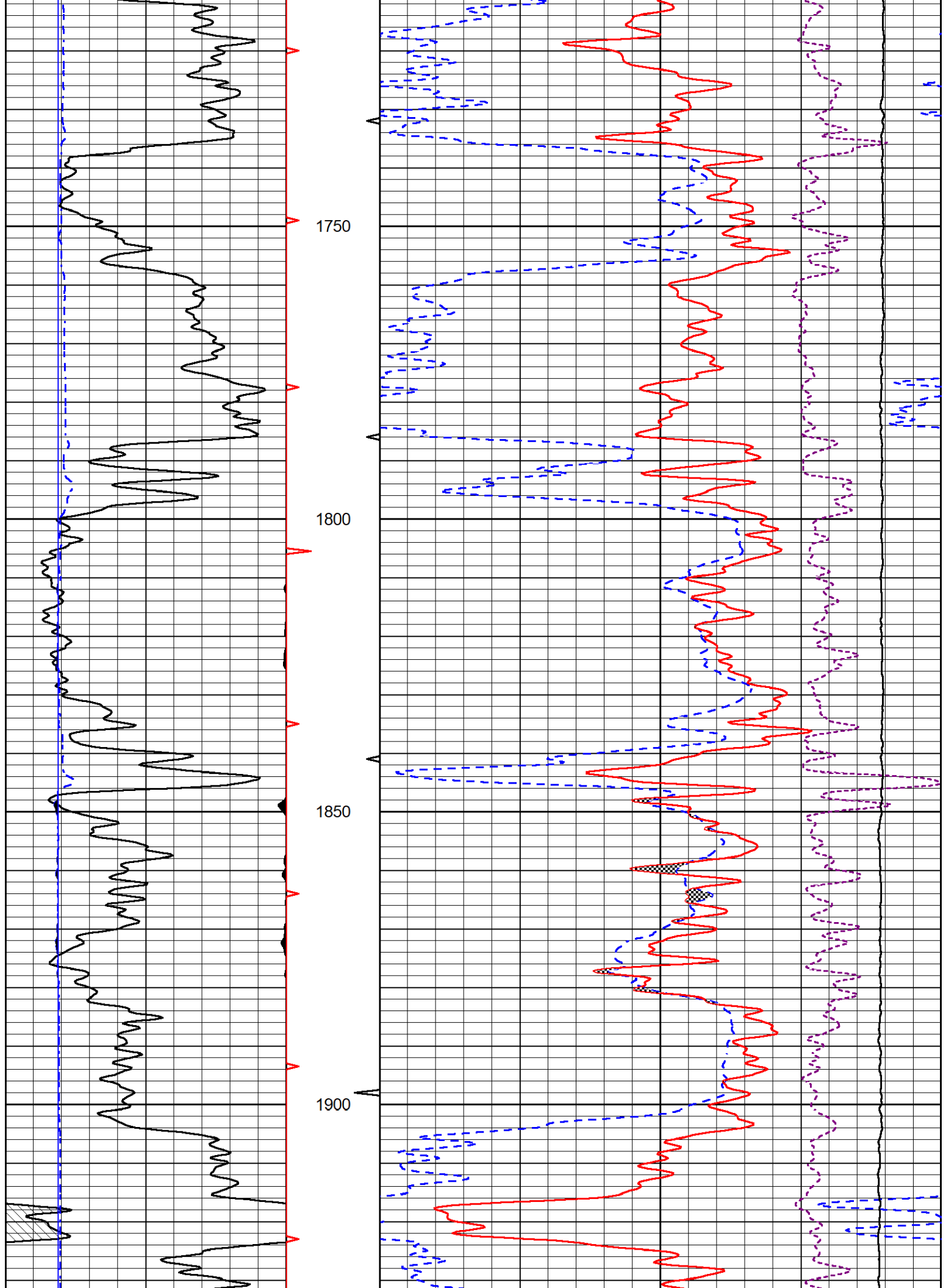
DETAIL SECTION

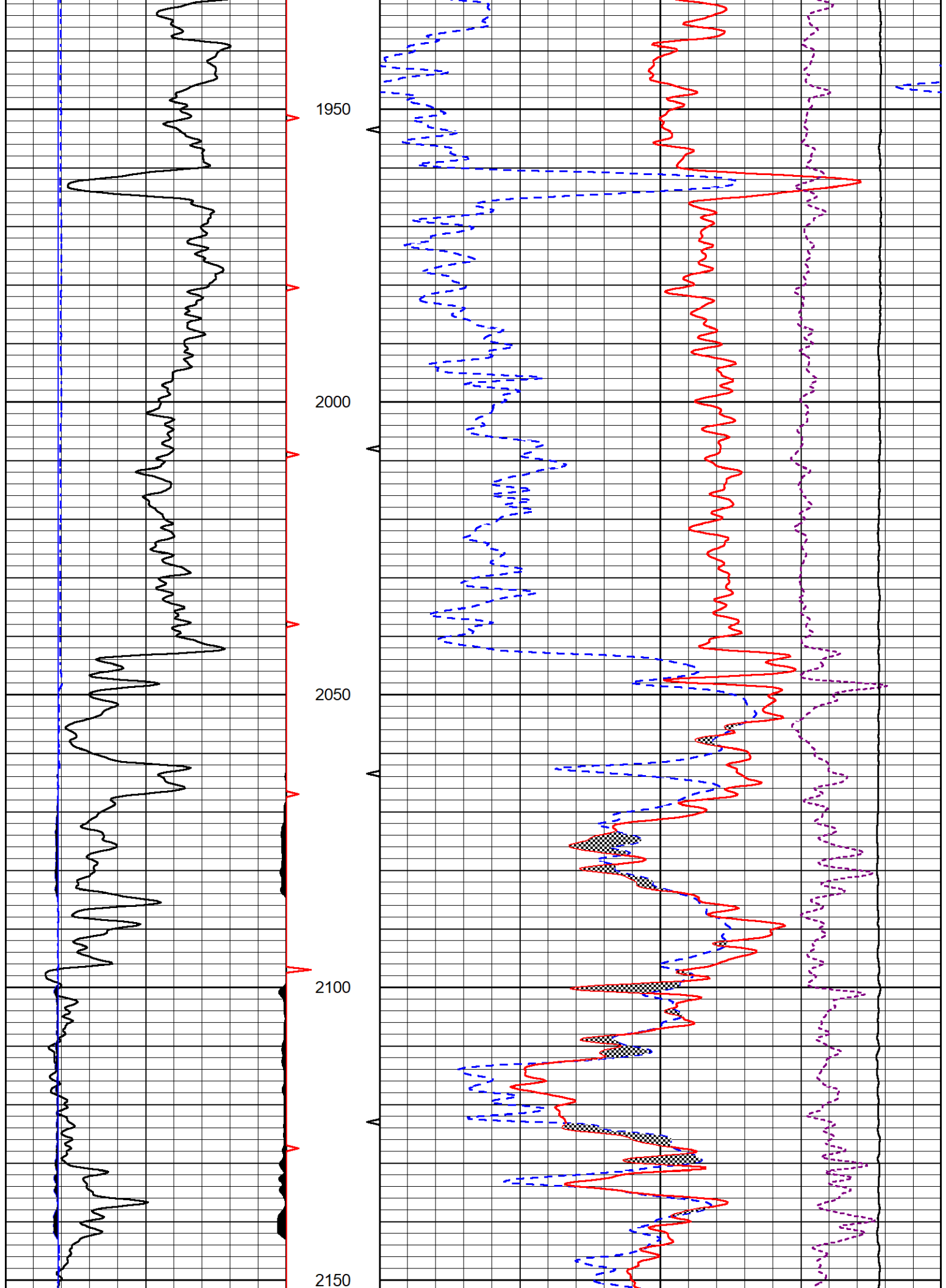
MAIN PASS

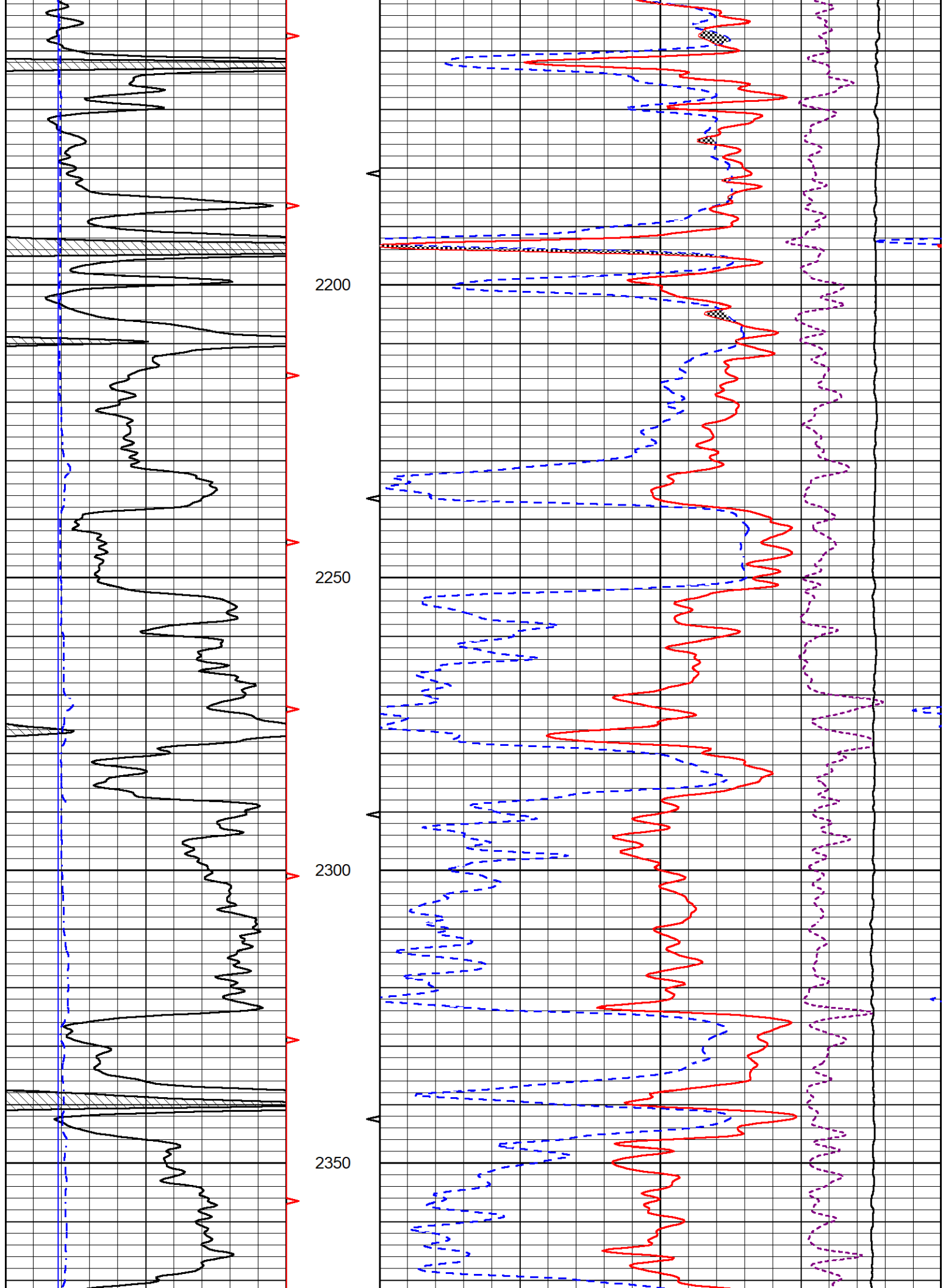
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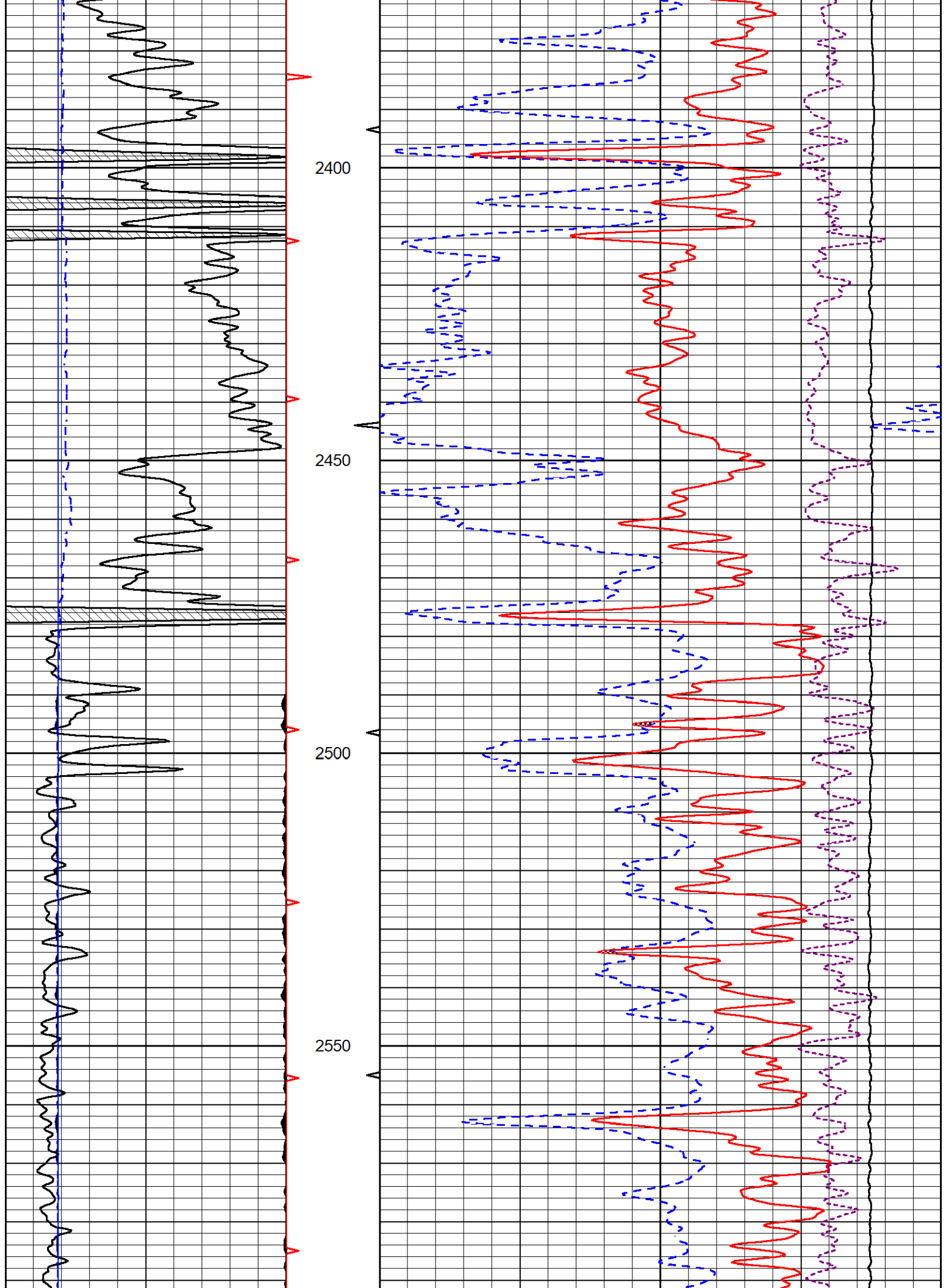


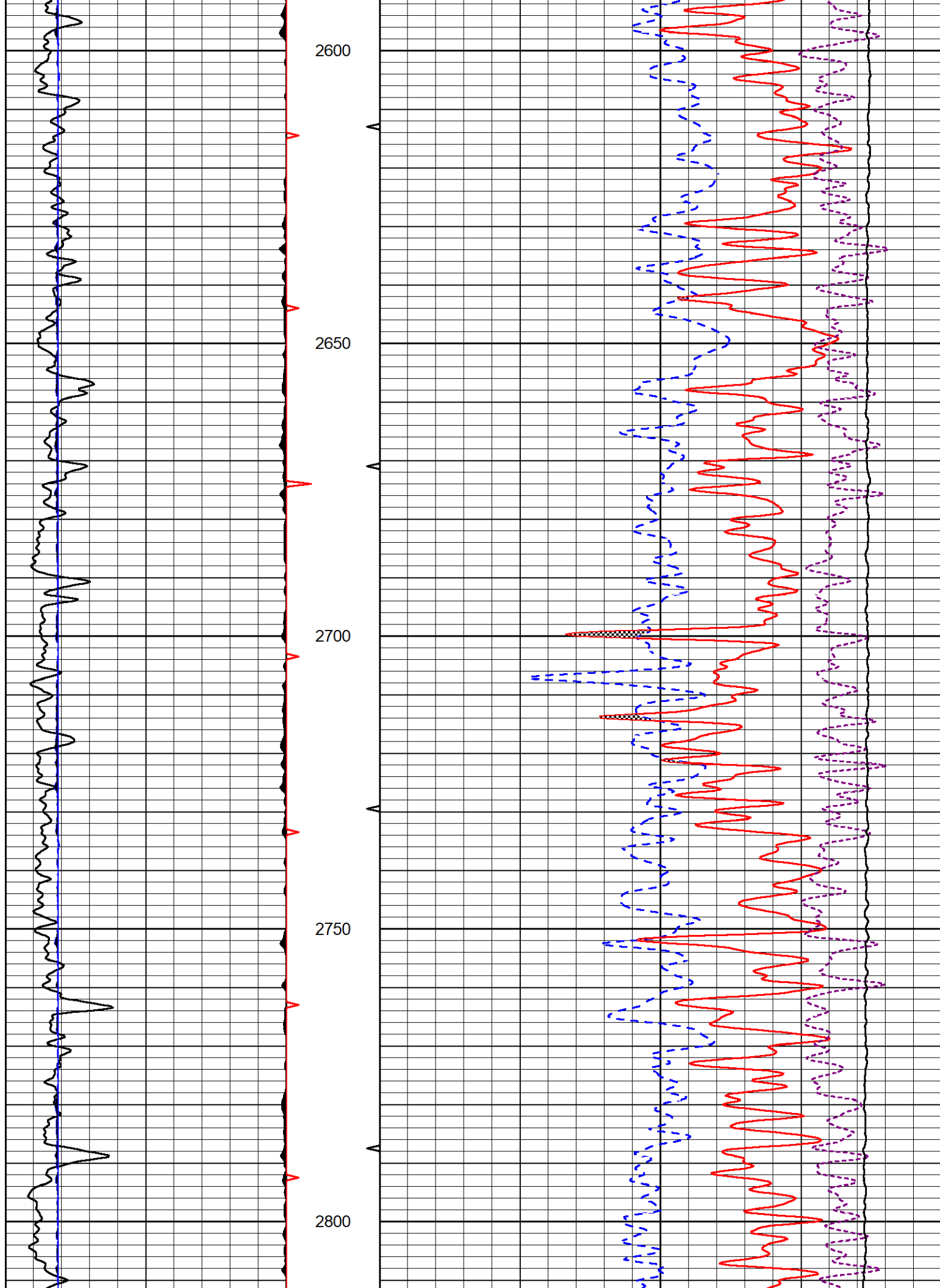


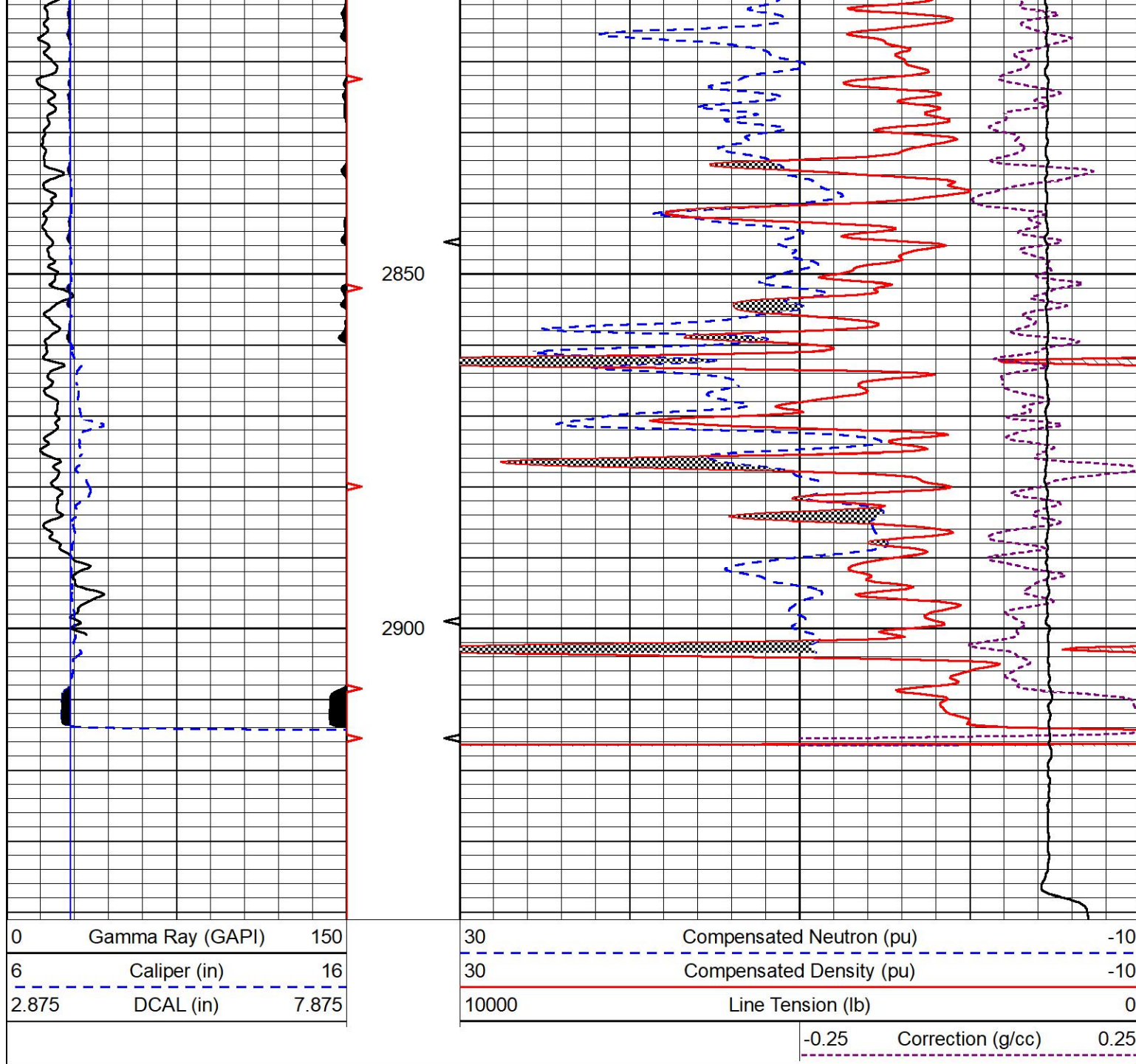










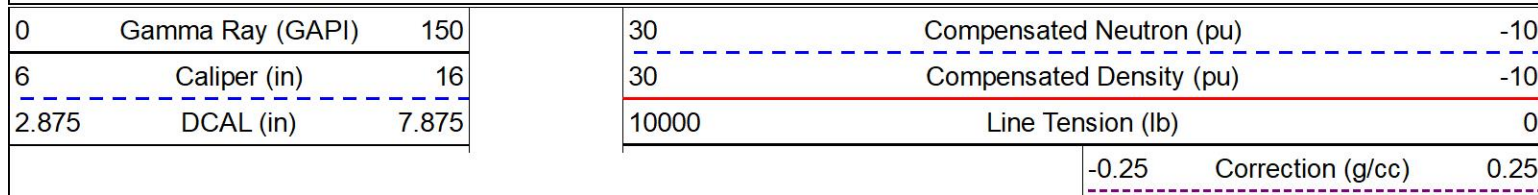


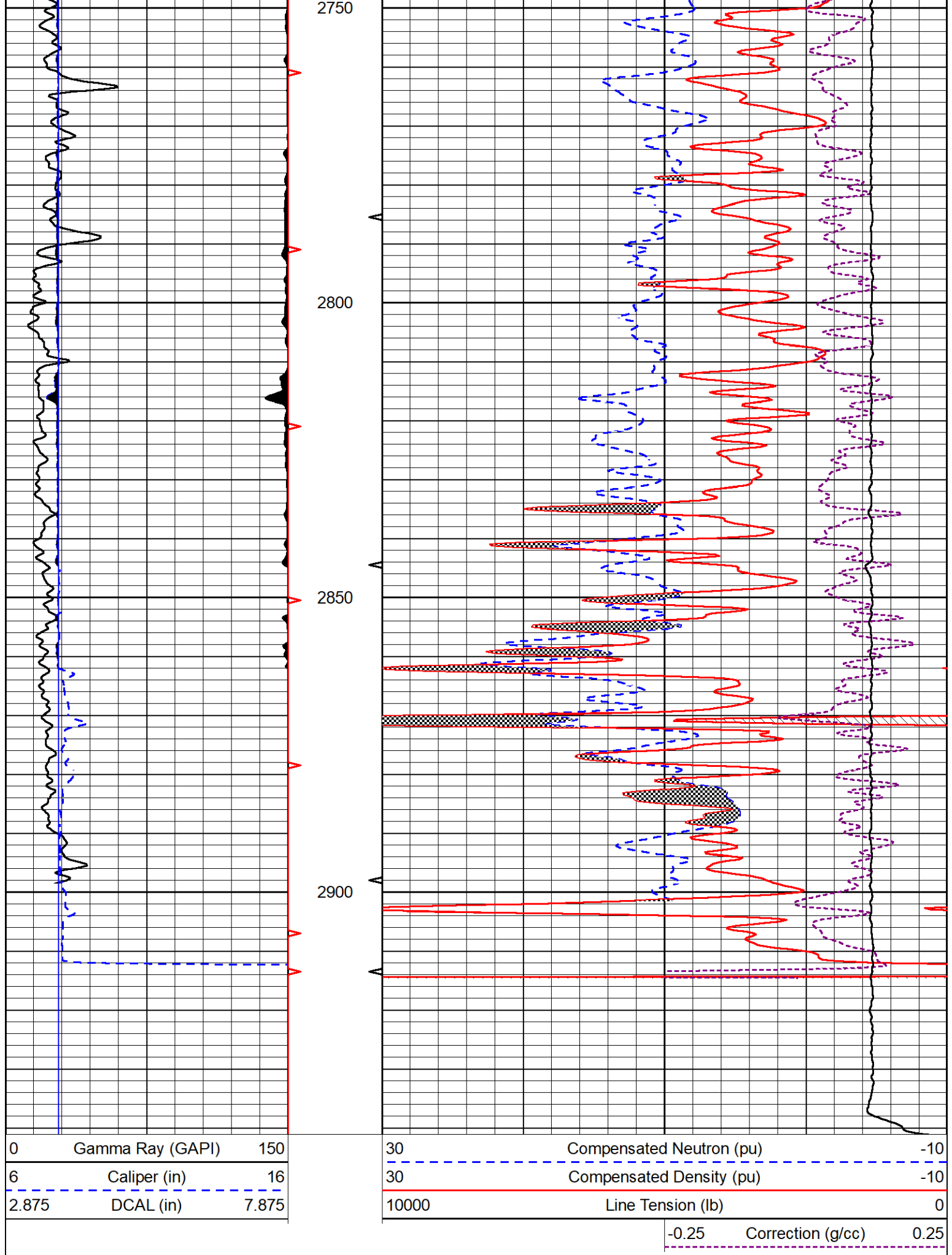
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File hawkins_jw smith #5b.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _CNDLS~1
 Dataset Creation Wed Mar 01 10:51:36 2023
 Charted by Depth in Feet scaled 1:240





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

Readings

Serial-Model: 401-PSIML
Performed: Tue Jan 31 07:24:49 2023

Readings

Serial-Model: 307-08-M&W
Source #: 20762B
Master Calibration Performed: Sat Feb 25 11:00:49 2023

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	4131.04	5675.82	cps
Aluminum	2.635	g/cc	781.38	3576.78	cps
Spine Angle = 74.50			Density/Spine Ratio = 0.509		
	Size		Reading		
Small Ring	6.00	in	1.16		
Large Ring	18.00	in	1.01		

Serial Number: 207-MW
Tool Model: M&W

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 Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	
3)	Short Space Long Space	cps cps	pu	

POST-SURVEY VERIFICATION

	Detector	Readings	Measured	Target
1)	Short Space Long Space	cps cps	pu	pu
2)	Short Space Long Space	cps cps	pu	pu
3)	Short Space Long Space	cps 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	Hawkins Oil LLC
Well	JW Smith #5B
Field	Augusta
County	Butler
State	Kansas