MIDWEST WIRELINE

DUAL COMP POROSITY LOG

Company Excalibur Production Co, Inc
Well Eshelman #2
Field Burrton
County Reno State Kansas

Location: 2310 FNL & 495 FWL
SEC 36 TWP 23S RGE 4W

API # : 15-155-21815-00-00

Other Services: DIL

Elevation: K.B. 1473, D.F., G.L. 1461

Permanent Datum: Ground Level — Elevation 1461
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing

Company	Excalibur Production Co, Inc
Well	Eshelman #2
Field	Burrton
County	Reno
State	Kansas
Date	7/12/2025
Run Number	One
Type Log	CNL/CDL
Depth Driller	3430
Depth Logger	3431
Bottom Logged Interval	3410
Top Logged Interval	2300
Type Fluid In Hole	Chemical
Salinity, PPM CL	1650
Density	9.05
Level	Full
Max. Rec. Temp. F	110
Operating Rig Time	3 Hours
Equipment -- Location	110 | HAYS
Recorded By	D. Schmidt
Witnessed By	Larry Ressler

Borehole Record

Run No.	Bit	From	To
One		0	308
Two	12.25	308	650
Three	7.875	650	TD

Casing Record

	Size	Wgt.	From	To
	13.375		0	308
	8.625	23	0	650
Brandon Wolfe				

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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.

Burrton,
West to Worthington Rd, 1 1/2 South,
East 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: D. Schmidt	Primary Witness: Larry Ressler
Operator:	Secondary Witness: Brandon Wolfe
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	32.75		GR-M&W (105)	3.00	3.50	50.00
CNLSC	29.65		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	28.90					
			CDL-M&W (308-05)	8.50	4.00	250.00
LSD	20.60					
DCAL	20.58					
SSD	20.10					
RLL3F	15.50					
RLL3	15.50					
			DIL-M&W (506)	18.25	3.50	220.00
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset: excalibur_eshelman 2.db: field/well/stack/pass3.1
Total length: 34.75 ft
Total weight: 620.00 lb
O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\excalibur_eshelman 2.db
Dataset field/well/stack/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	110	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	-120	75	Off	3430

MIDWEST WIRELINE

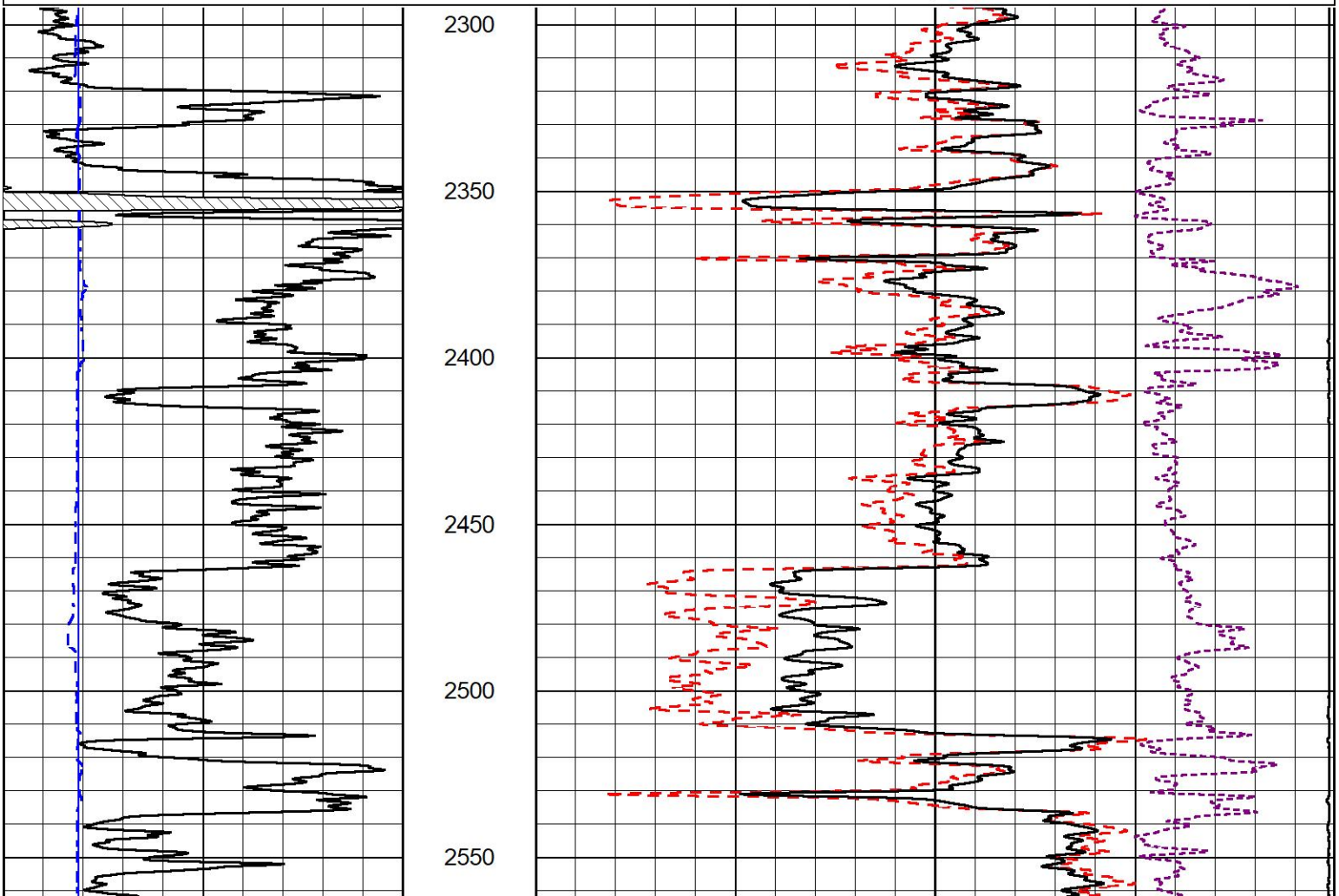
2" SCALE BULK DENSITY

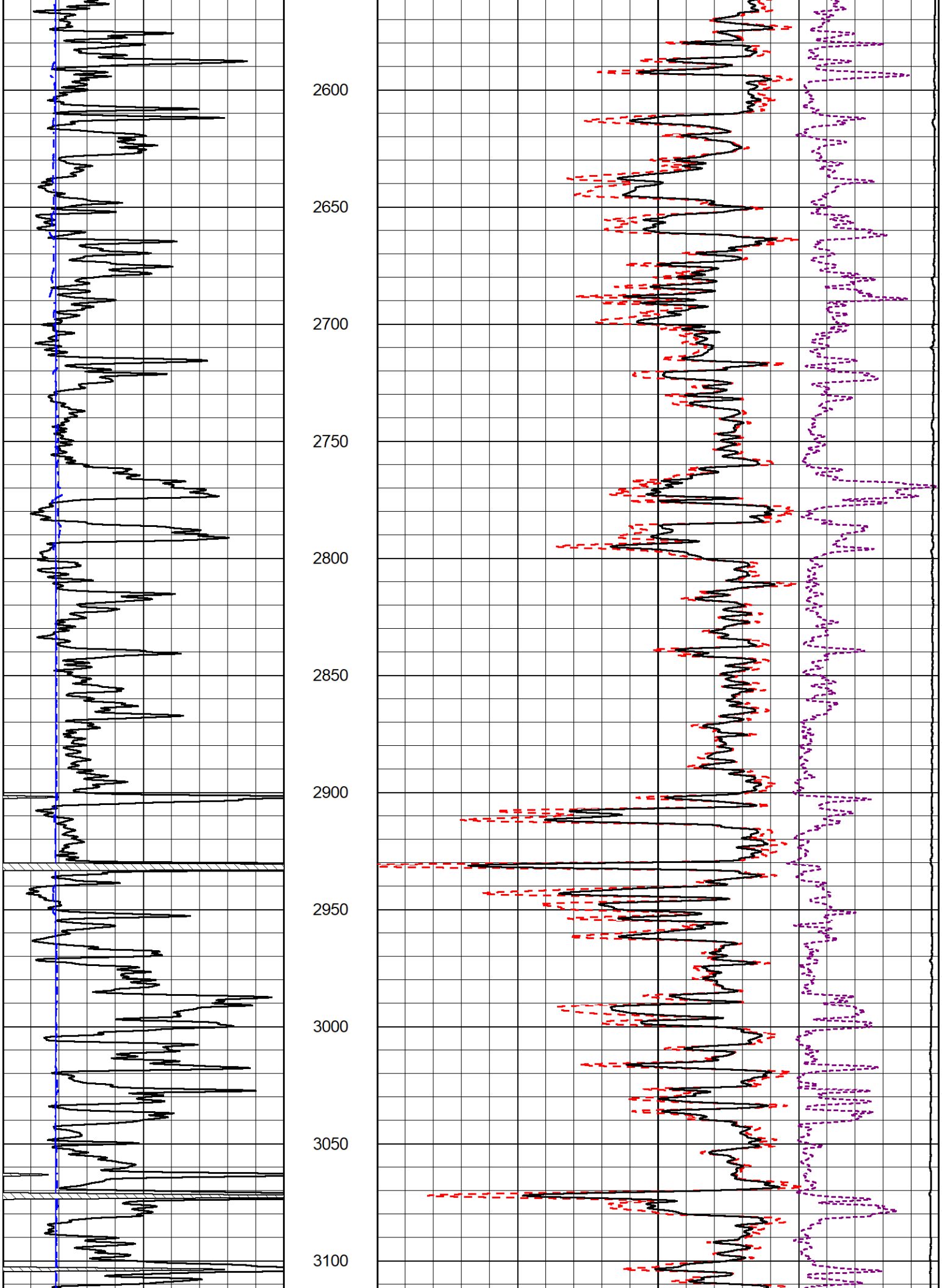
MAIN PASS

Database File	excalibur_eshelman 2.db
Dataset Pathname	stack/pass3.2
Presentation Format	_cdl
Dataset Creation	Sat Jul 12 08:59:10 2025
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

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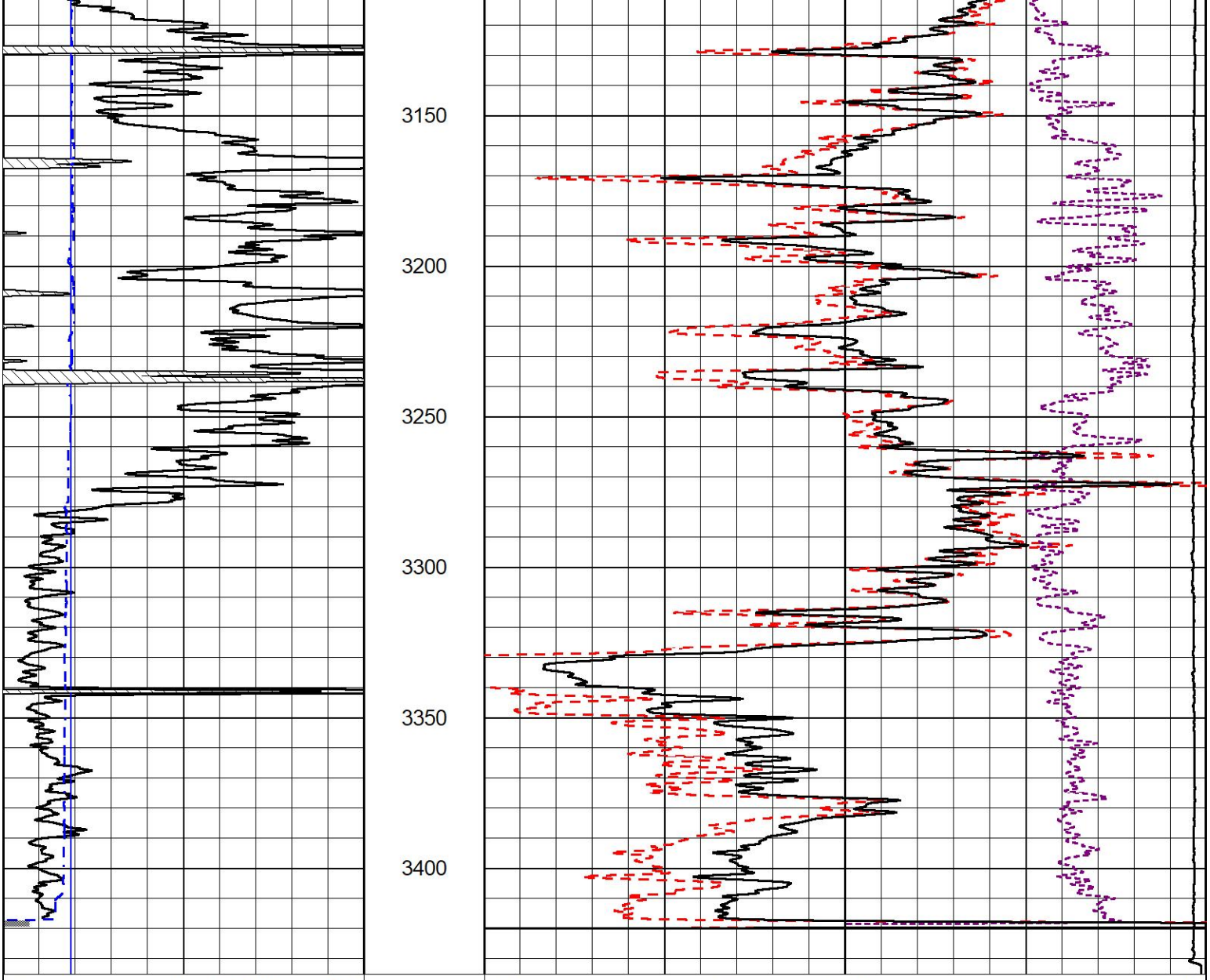


0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
15000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25

MIDWEST WIRELINE

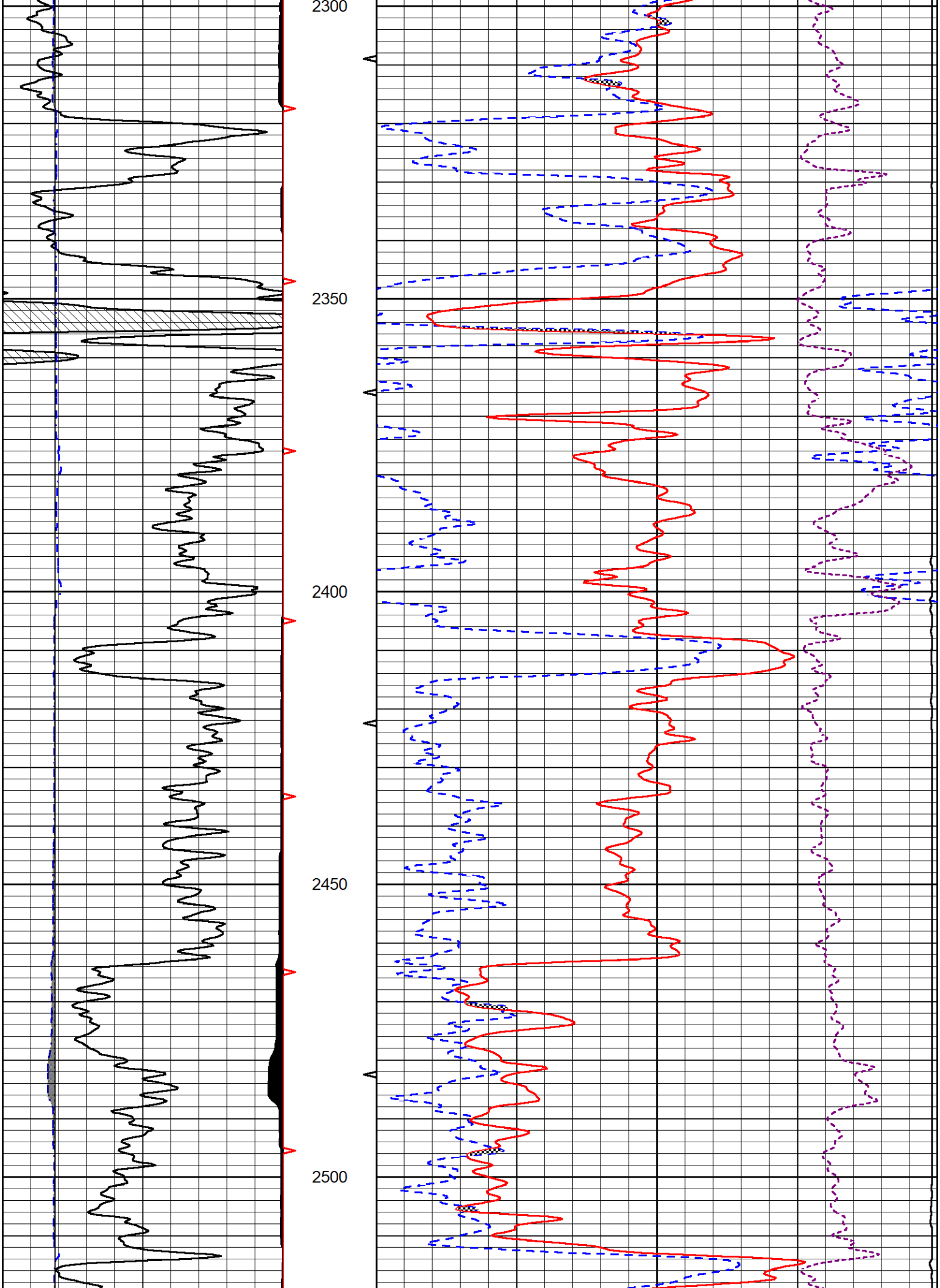
DETAIL SECTION

MAIN PASS

Database File	excalibur_eshelman 2.db
Dataset Pathname	stack/pass3.1
Presentation Format	_CNDLS~1
Dataset Creation	Sat Jul 12 08:56:04 2025
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25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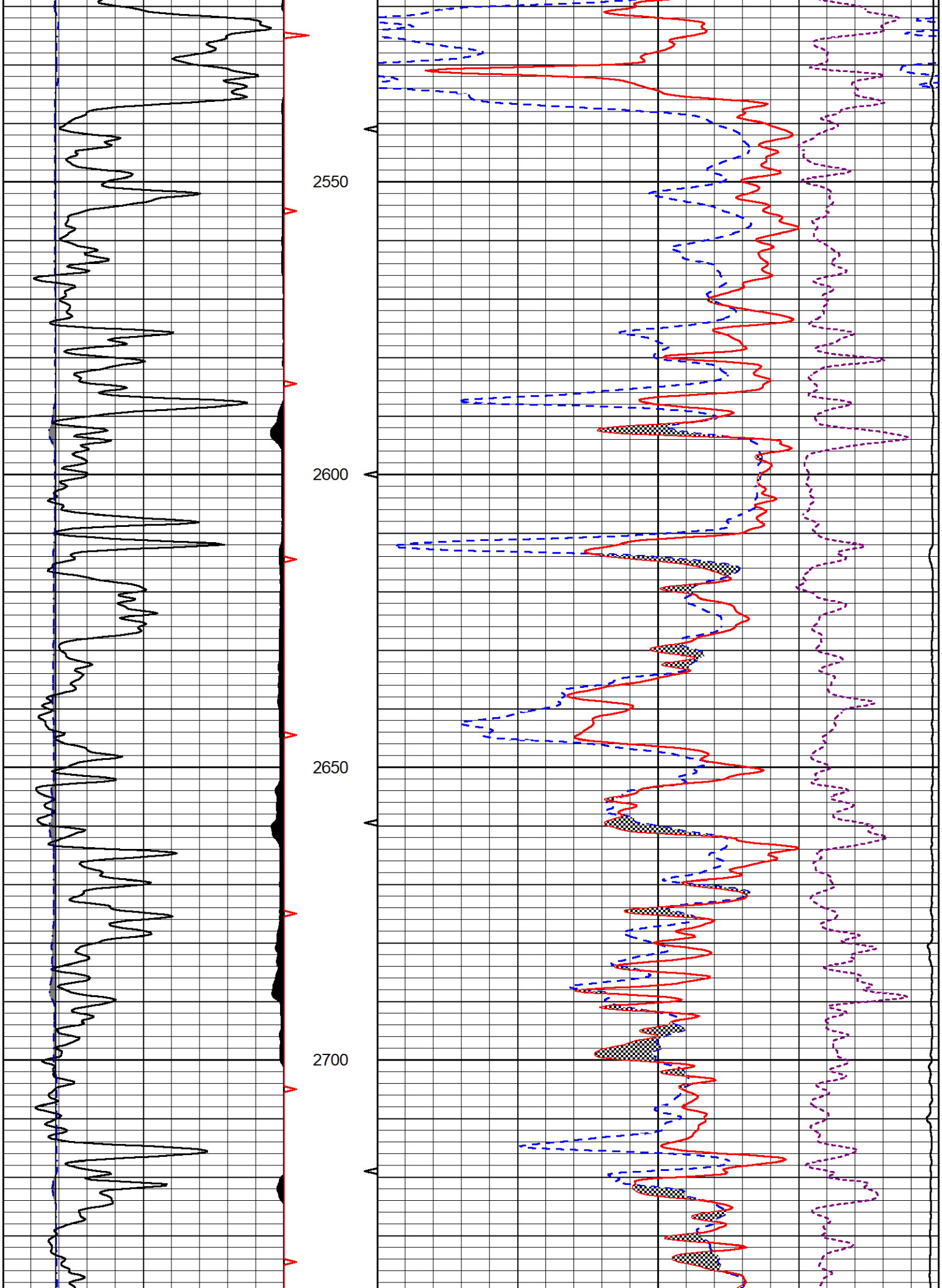
2450
2500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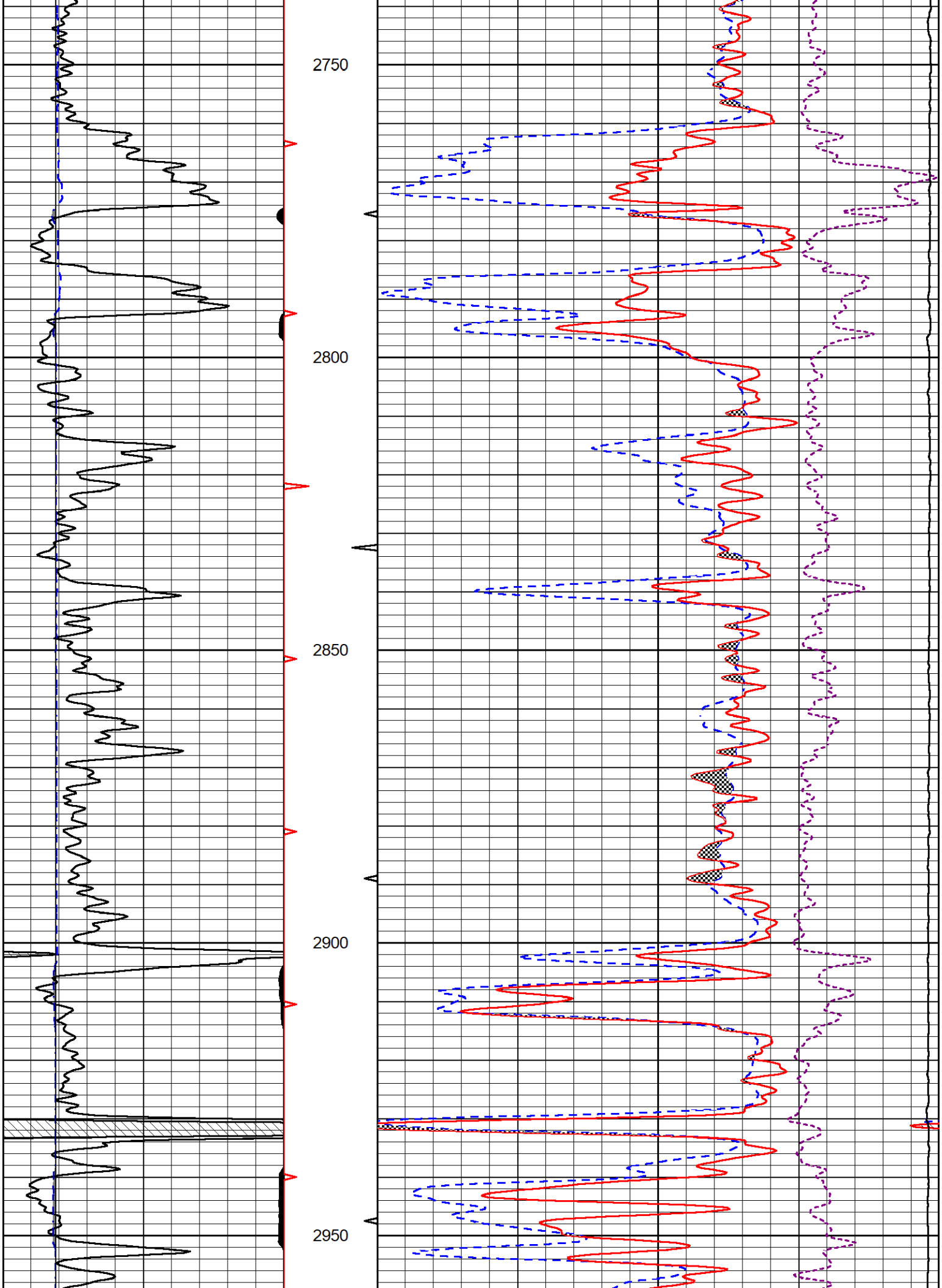
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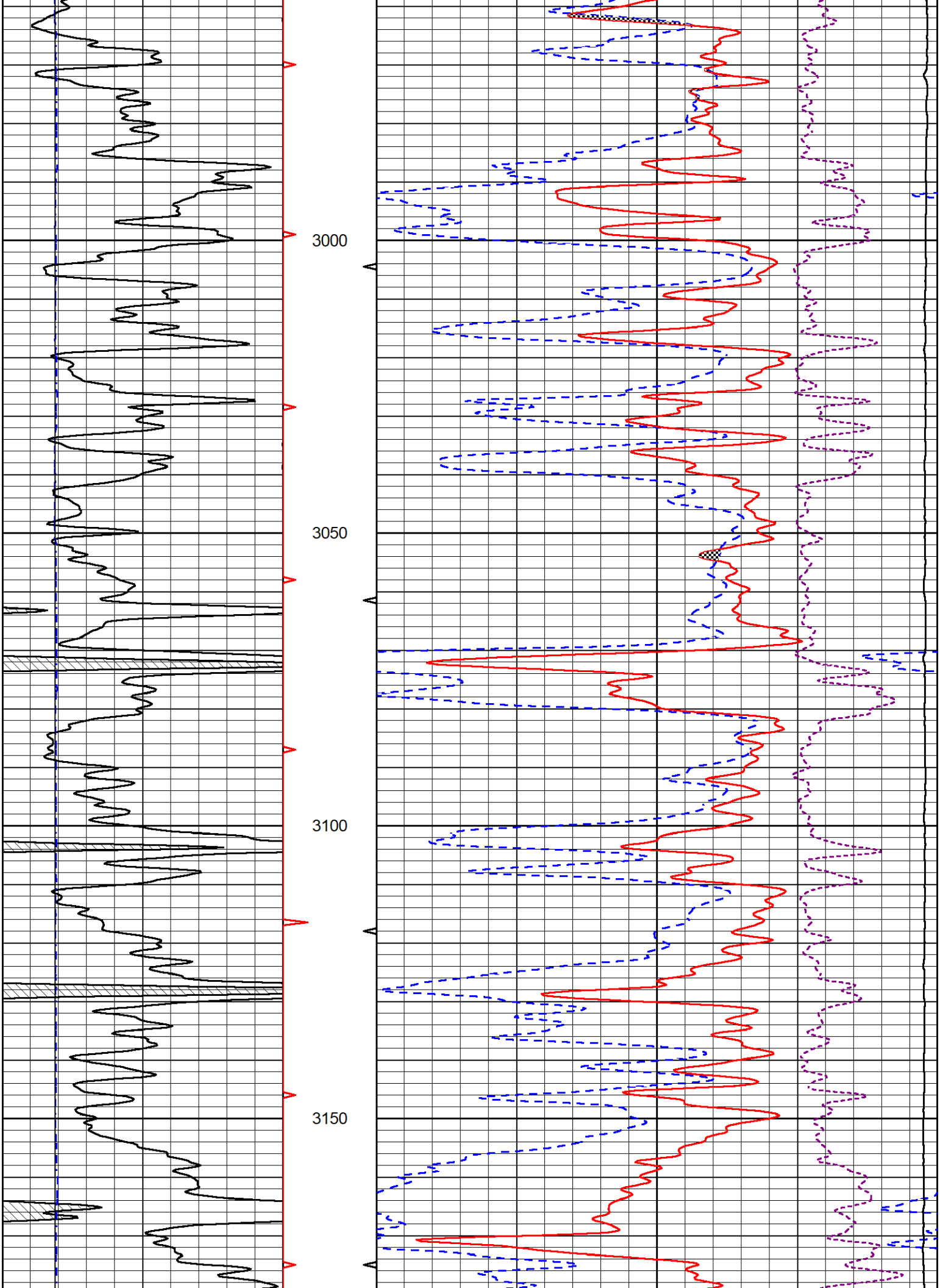
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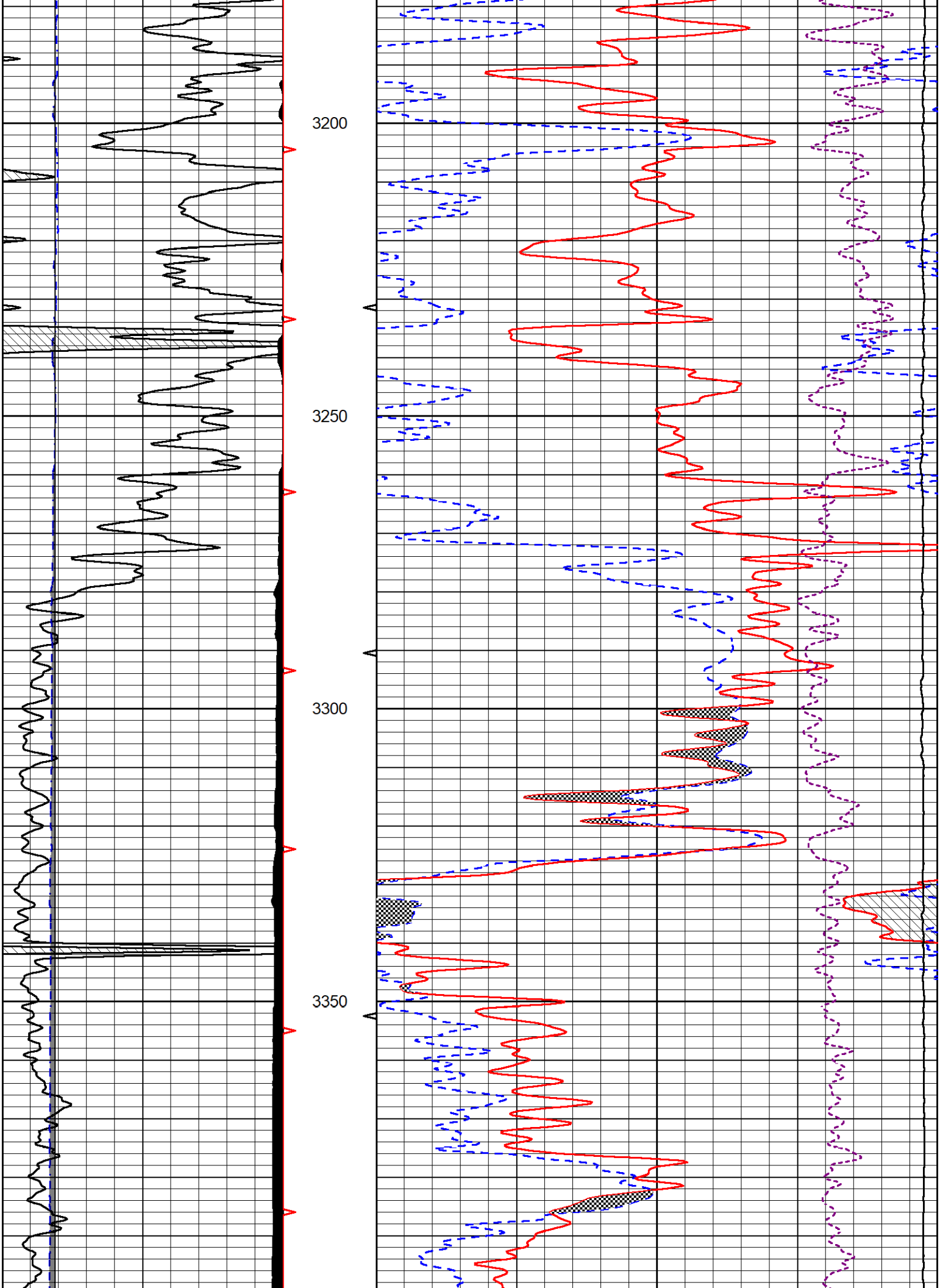
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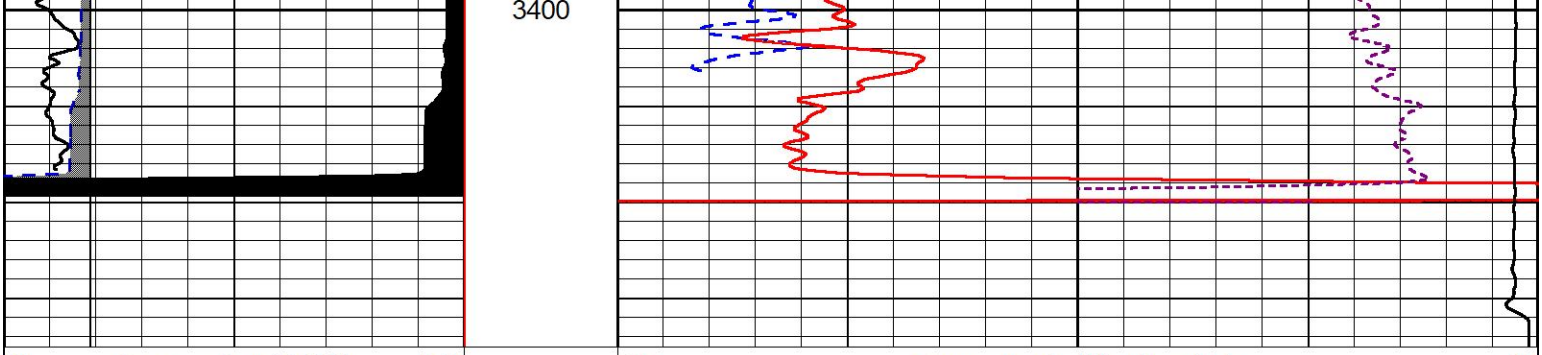
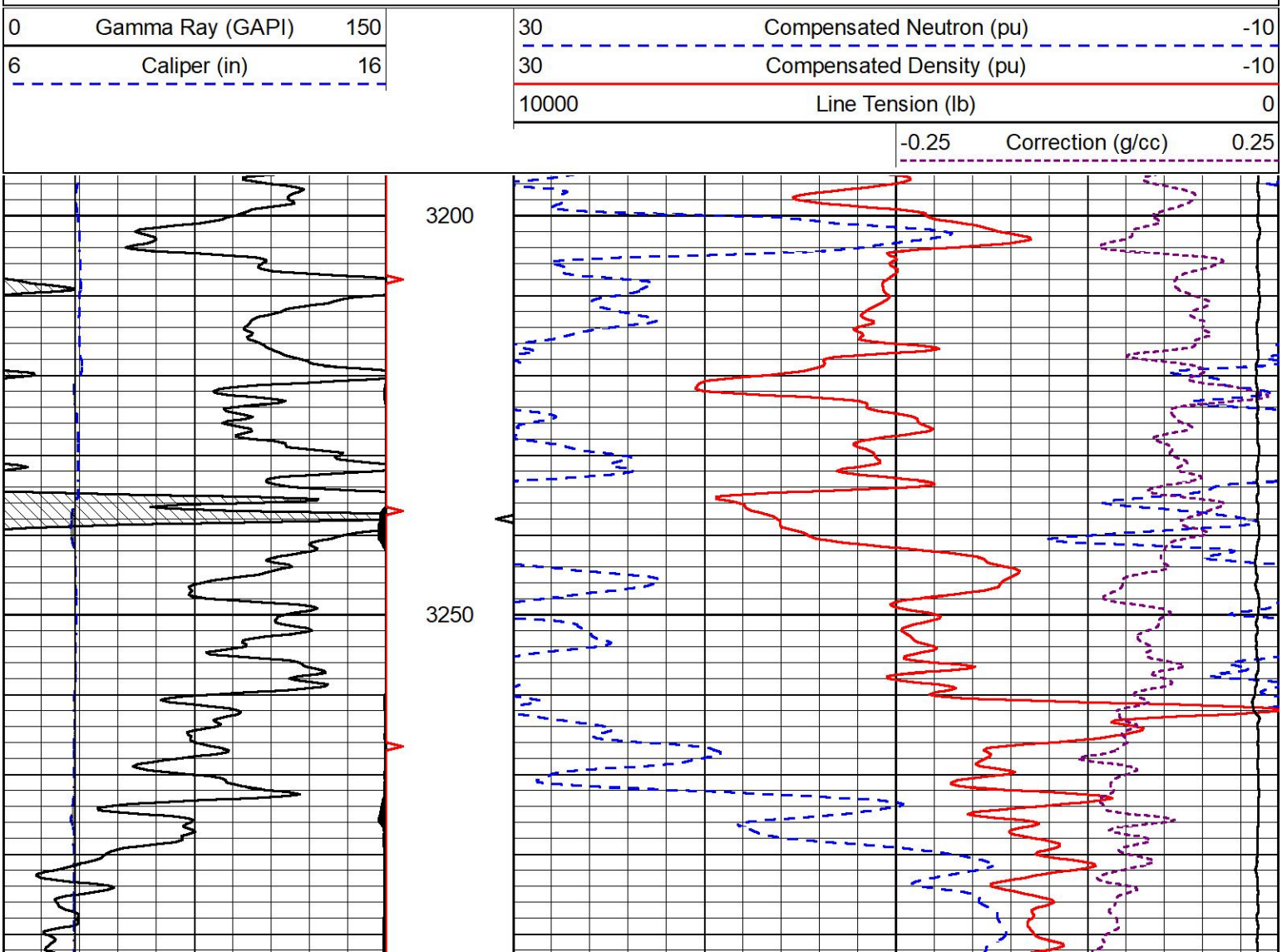


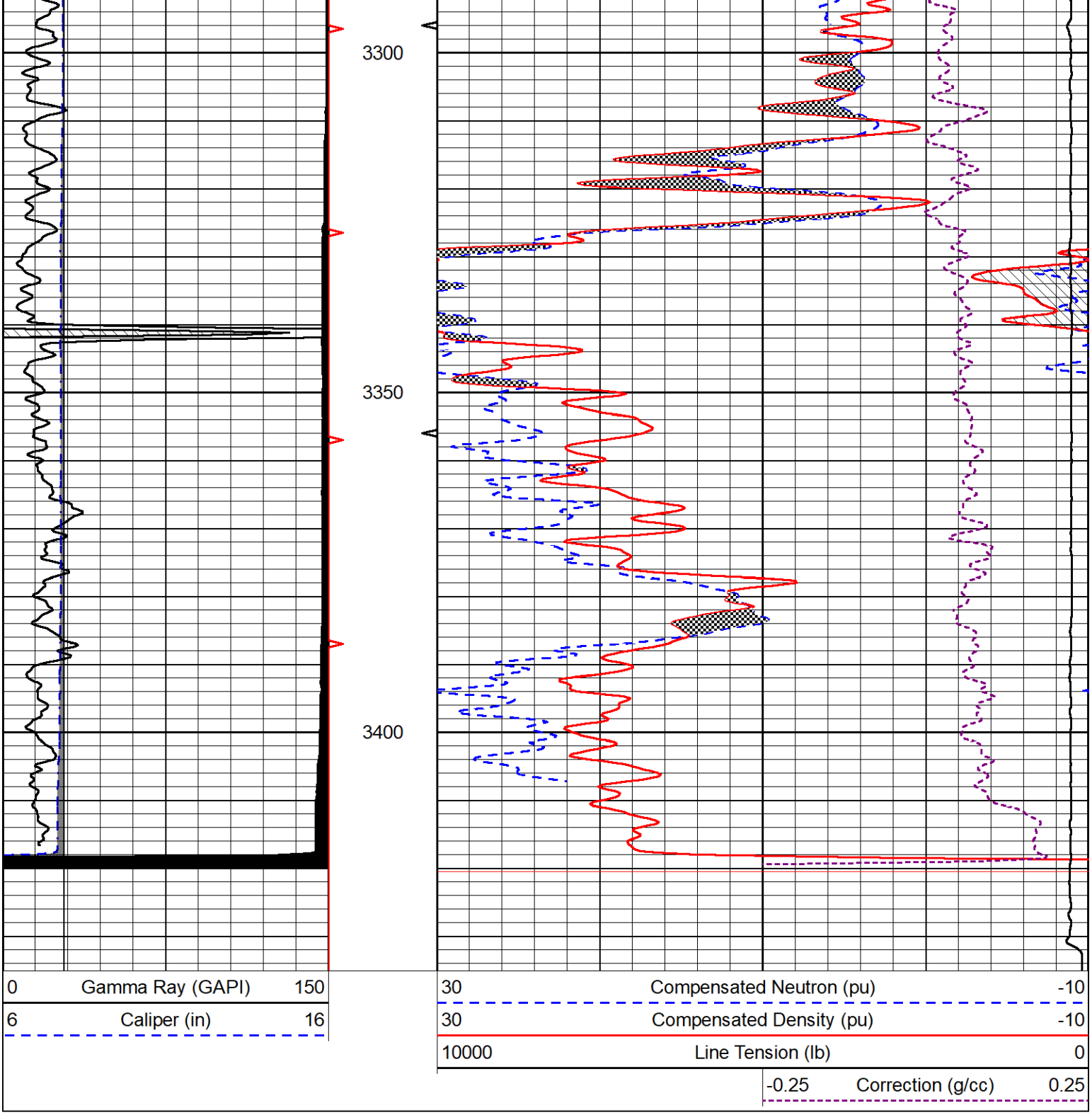
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File	excalibur_eshelman 2.db
Dataset Pathname	stack/pass2.1
Presentation Format	_CNDLS~1
Dataset Creation	Sat Jul 12 08:40:01 2025
Charted by	Depth in Feet scaled 1:240





Calibration Report

Database File	excalibur_eshelman 2.db
Dataset Pathname	stack/pass3.1
Dataset Creation	Sat Jul 12 08:56:04 2025

Dual Induction Calibration Report

Serial-Model:	506-M&W
Surface Cal Performed:	Thu Apr 3 15:09:39 2025

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	84.211	428.152	0.000	355.200	mmho/m	0.430	20.000

Deep	84.211	428.152	0.000	255.800	mmho/m	0.480	-29.000
Medium	141.000	670.654	0.000	255.800	mmho/m	0.405	-16.000

Compensated Density Calibration Report

Serial-Model:	308-05-M&W
Source #:	21170B
Master Calibration Performed:	Wed May 14 15:44:32 2025

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5263.39	6024.11	cps
Aluminum	2.570	g/cc	1137.62	4032.96	cps

Spine Angle = 75.32 Density/Spine Ratio = 0.515

	Size		Reading
Small Ring	6.00	in	1.03
Large Ring	14.00	in	1.15

Compensated Neutron Calibration Report

Serial Number:	210
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

Gamma Ray Calibration Report

Serial Number:	105	
Tool Model:	M&W	
Performed:	Sat Oct 21 23:48:19 2023	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps

MIDWEST WIRELINE

Company	Excalibur Production Co, Inc
Well	Eshelman #2
Field	Burrton
County	Reno
State	Kansas