



MIDWEST WIRELINE

**DUAL COMPENSATED
POROSITY W/PE**

Company Knighton Oil Company, Inc.
Well Kipp C #1-26
Field Kipp
County Stafford
State Kansas

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County Stafford
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Location: API #: 15-185-24152-00-00
SE SW NW SW
1325 FSL & 637 FWL
SEC 26 TWP 25S RGE 14W
Permanent Datum Ground Level Elevation 1980
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL/BHCS
K.B. 1991
D.F.
G.L. 1980

Date	4/24/2024						
Run Number	One						
Type Log	CNL/CDL						
Depth Driller	4381						
Depth Logger	4381						
Bottom Logged Interval	4352						
Top Logged Interval	1700						
Type Fluid In Hole	Chemical						
Salinity, PPM CL	4500						
Density	9.3						
Level	Full						
Max. Rec. Temp. F	120						
Operating Rig Time	5 Hours						
Equipment -- Location	P-108 Hays						
Recorded By	T. Martin						
Witnessed By	Sean Deenihan						
Borehole Record							
Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	432	8.625	23	00	432
Two	7.875	432	TD				
Casing Record							

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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.

St John, KS, S to SW 70th,
5 W, 3/4 S, E into

Log Measured From: Kelly Bushing 11 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: Sean Deenihan
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.75		GR-M&W (102)	3.00	3.50	50.00	
CNLSC CNSSC	37.65 36.90		CNT-M&W (207)	5.00	3.50	100.00	
				MWLith-STEP LITHO (704-10) Long Litho Mandrel	8.92	5.00	250.00
LCAL	28.21						
LLW8N	28.21						
LLW7N	28.21						
LLW6N	28.21						
LLW5N	28.21						
LLW4N	28.21						
LLW3N	28.21						
LLW2N	28.21			ML-PSIML (401)	7.58	4.00	65.00
LLW1N	28.21						
LSLOCK	27.96						
LLLOCK	27.96						
PELTMPR	27.96						
LSHVNG	27.96						
LLHVNG	27.96						
LSW8N	27.71						
LSW7N	27.71						
LSW6N	27.71						
LSW5N	27.71						
LSW4N	27.71						
LSW3N	27.71						
LSW2N	27.71						
LSW1N	27.71						
MCAL	19.58		DIL-M&W (507)	18.25	3.50	220.00	
MI	19.58						
MN	19.58						
RLL3F	15.50						
RLL3	15.50						
CILD	8.33						
CILM	4.50						
SP	0.20						

Dataset: knighton_kipp c #1-26.db: field/well/StkMI/pass3.1
 Total length: 42.75 ft
 Total weight: 685.00 lb
 O.D.: 5.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\knighton_kipp c #1-26.db
 Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 120	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 2.5	SNDERRM mmho/m -3.5	SPSHIFT mV 300	SRFTEMP degF 70	SZCOR Off	TDEPTH ft 4381		

Variable Description

BOREID : Borehole I.D.
 BOTTEMP : Bottom Hole Temperature
 CASEOD : Casing O.D.
 CASETHCK : Casing Thickness
 FLUIDDEN : Fluid Density
 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



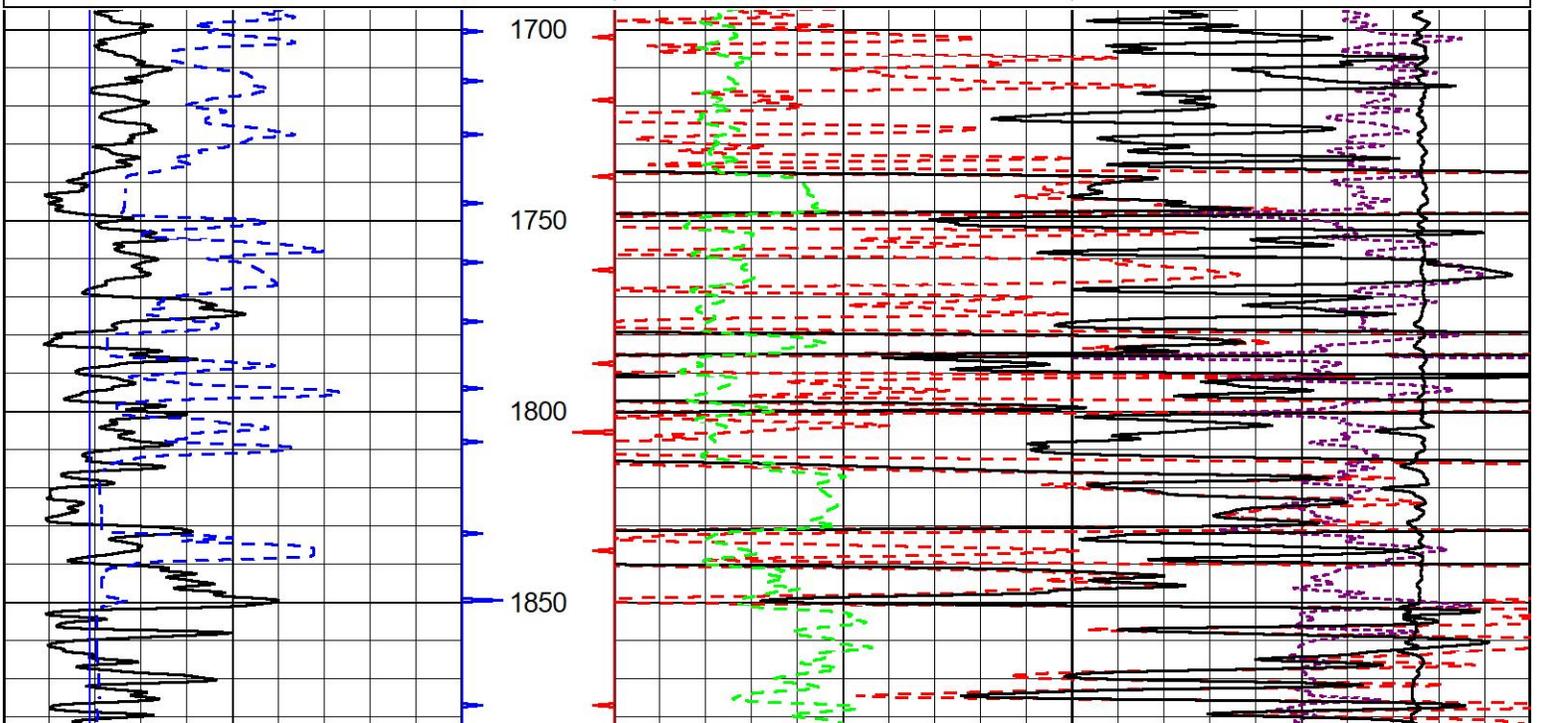
MIDWEST WIRELINE

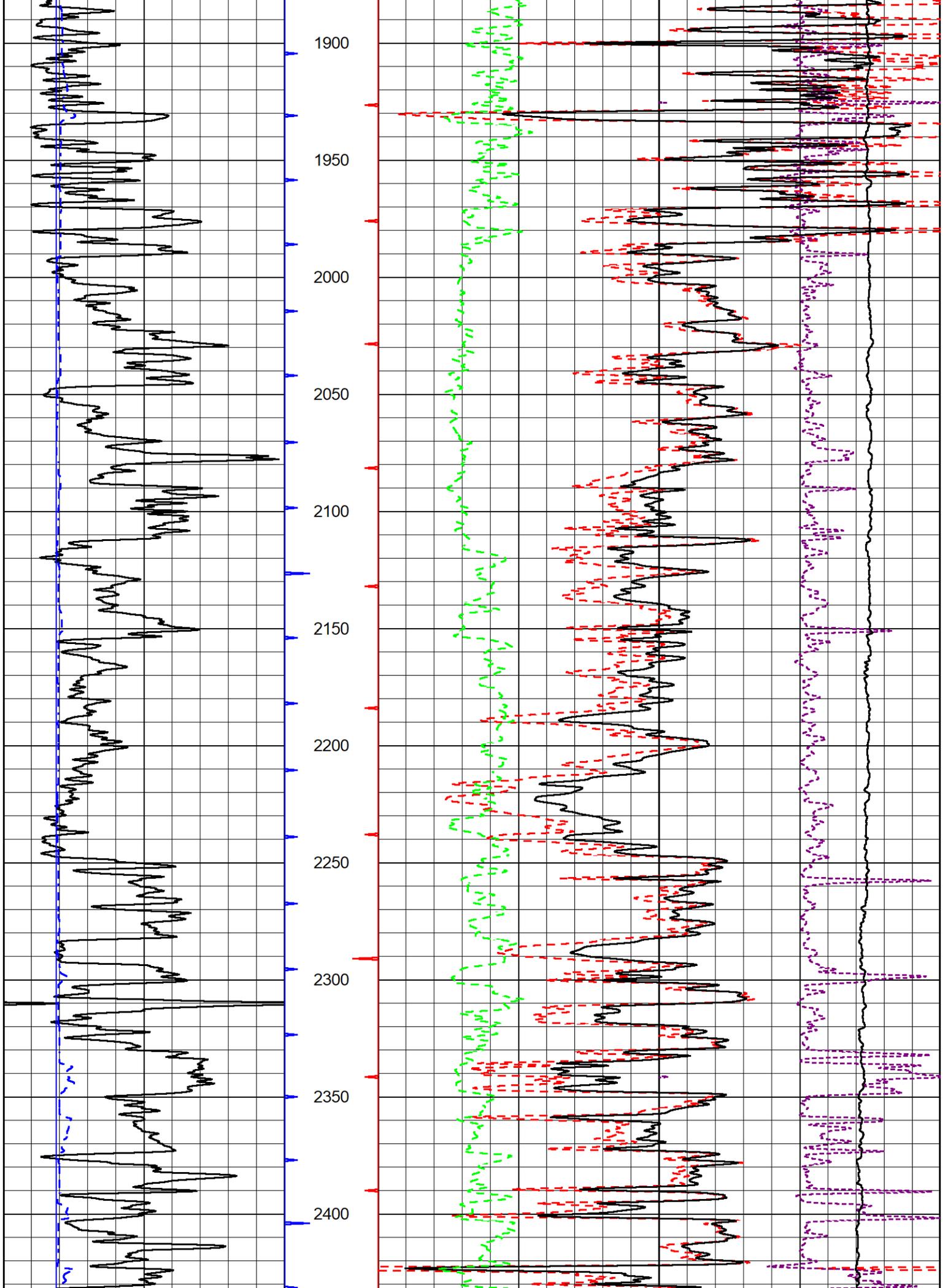
2" SCALE BULK DENSITY

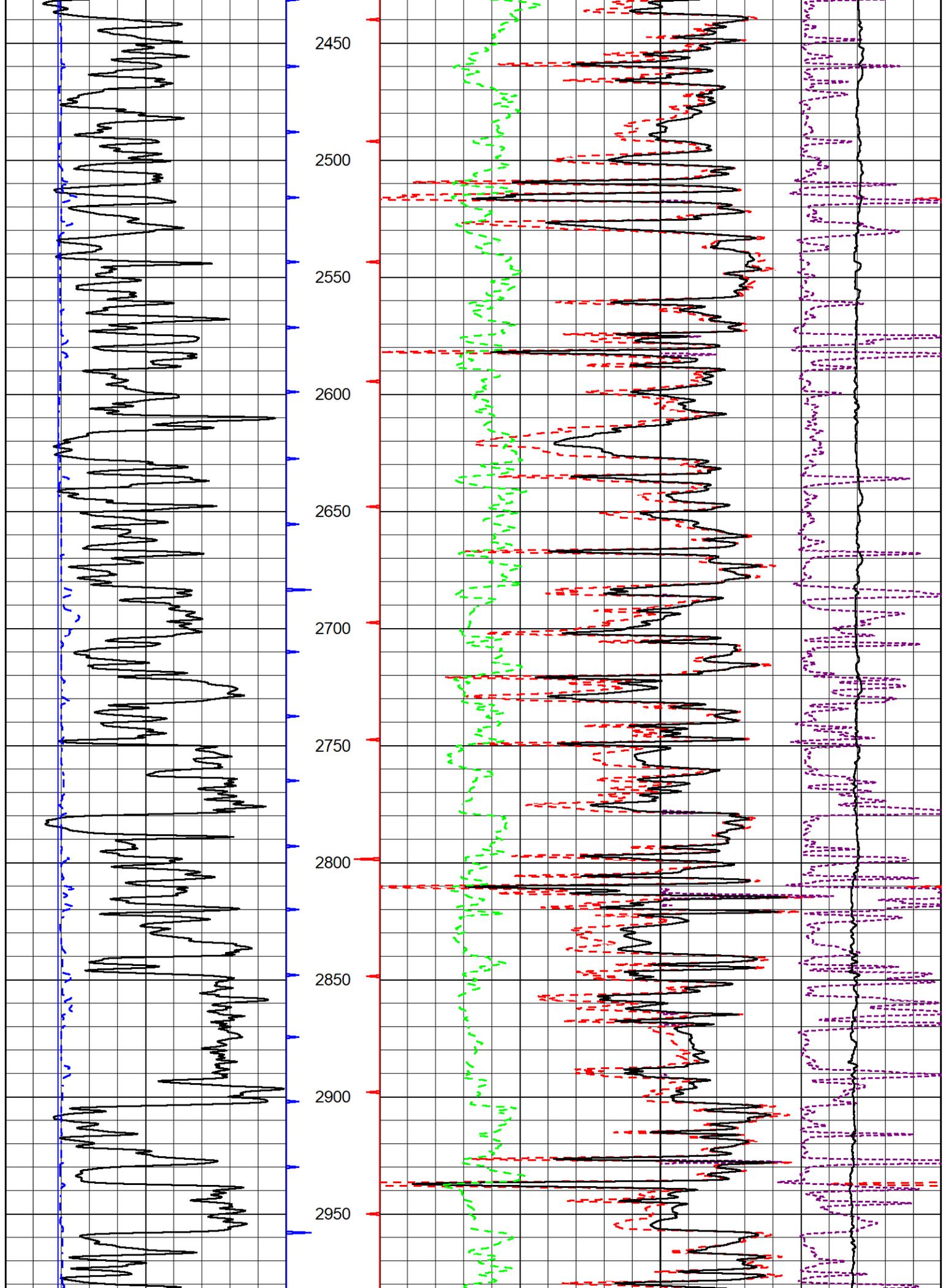
MAIN PASS

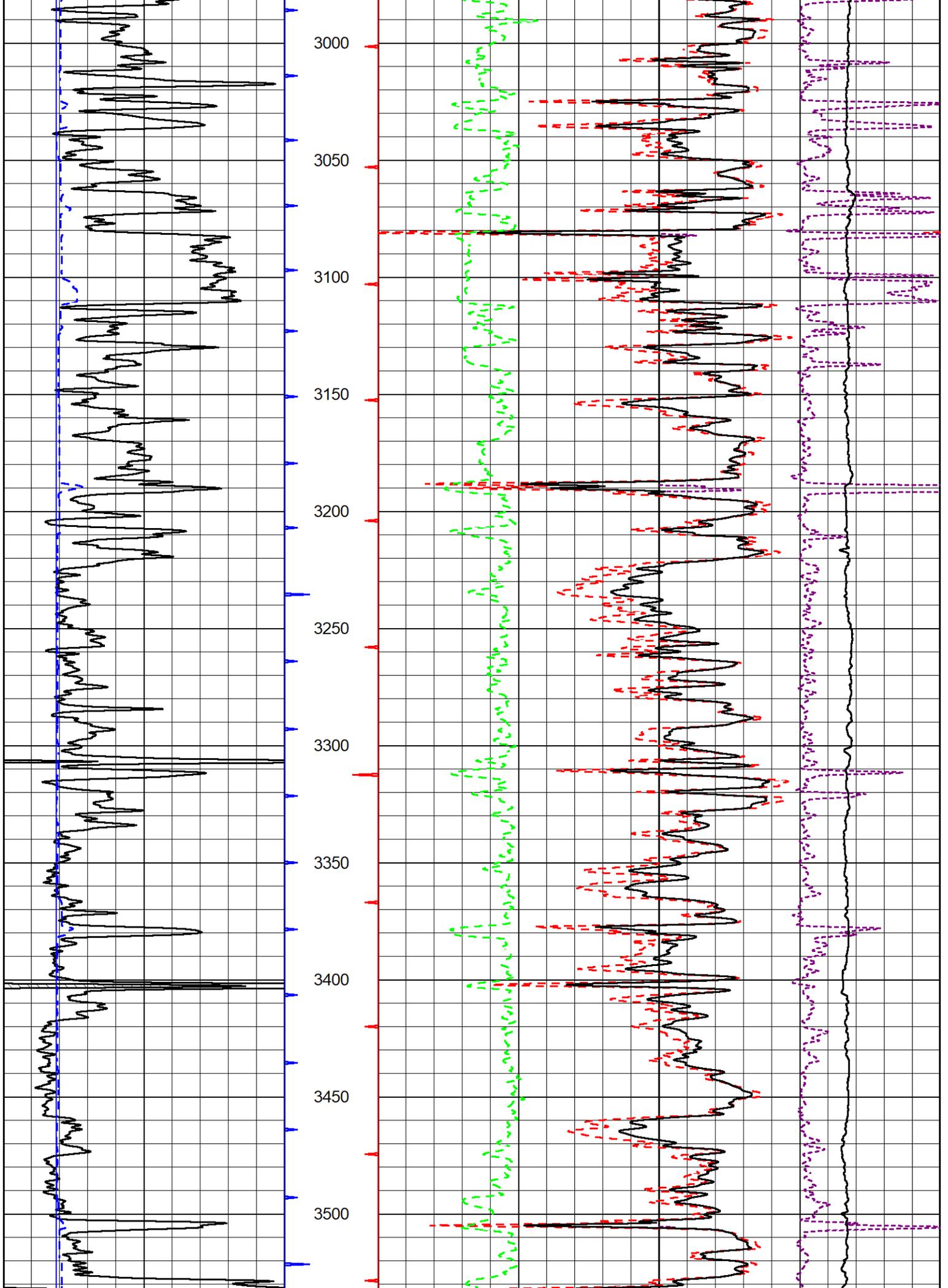
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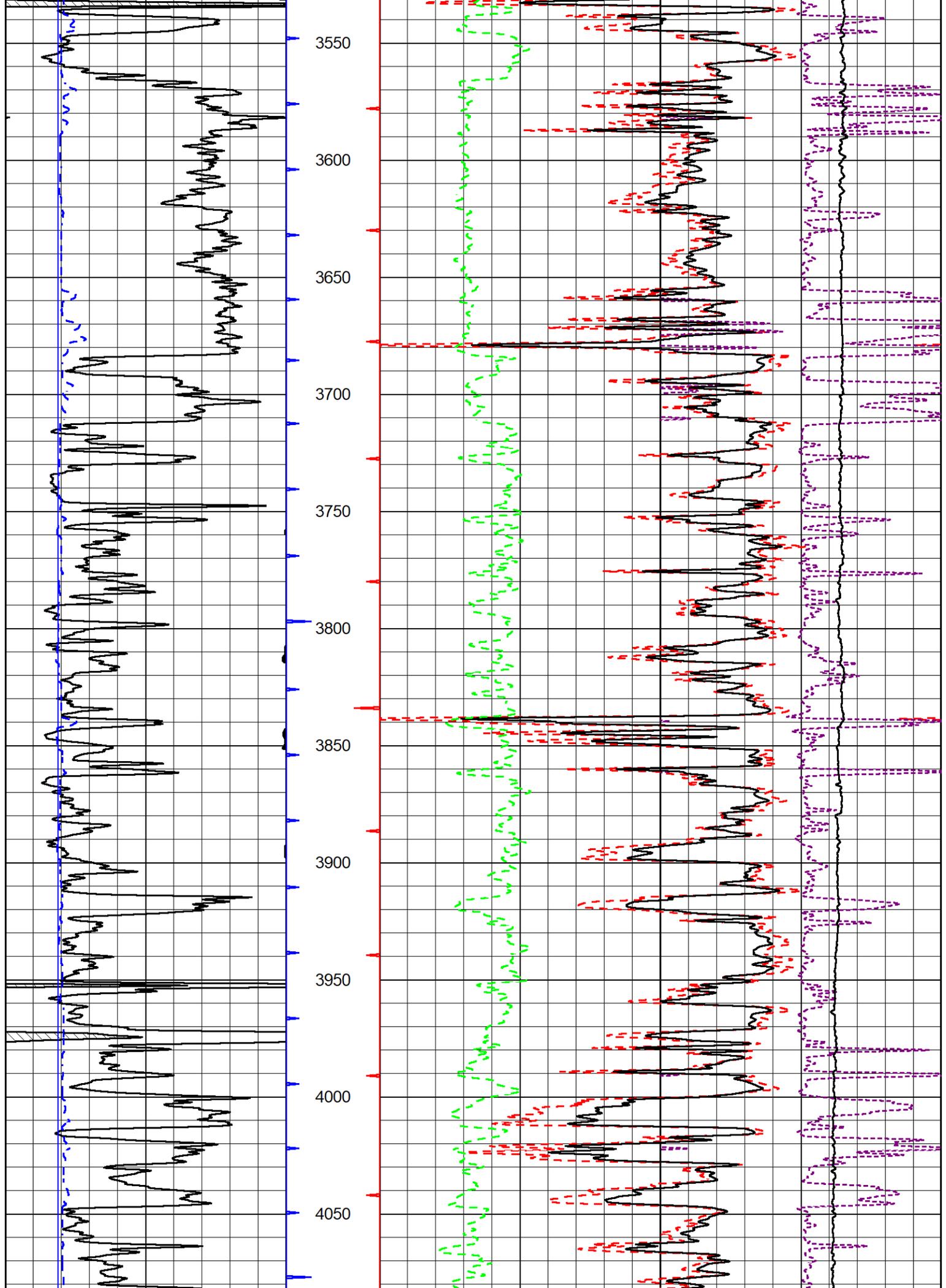
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6	Caliper (in)	16	2	Bulk Density (g/cc)	3
			10000	Line Tension (lb)	0
			0	pecln	10 -0.25
				Correction (g/cc)	0.25

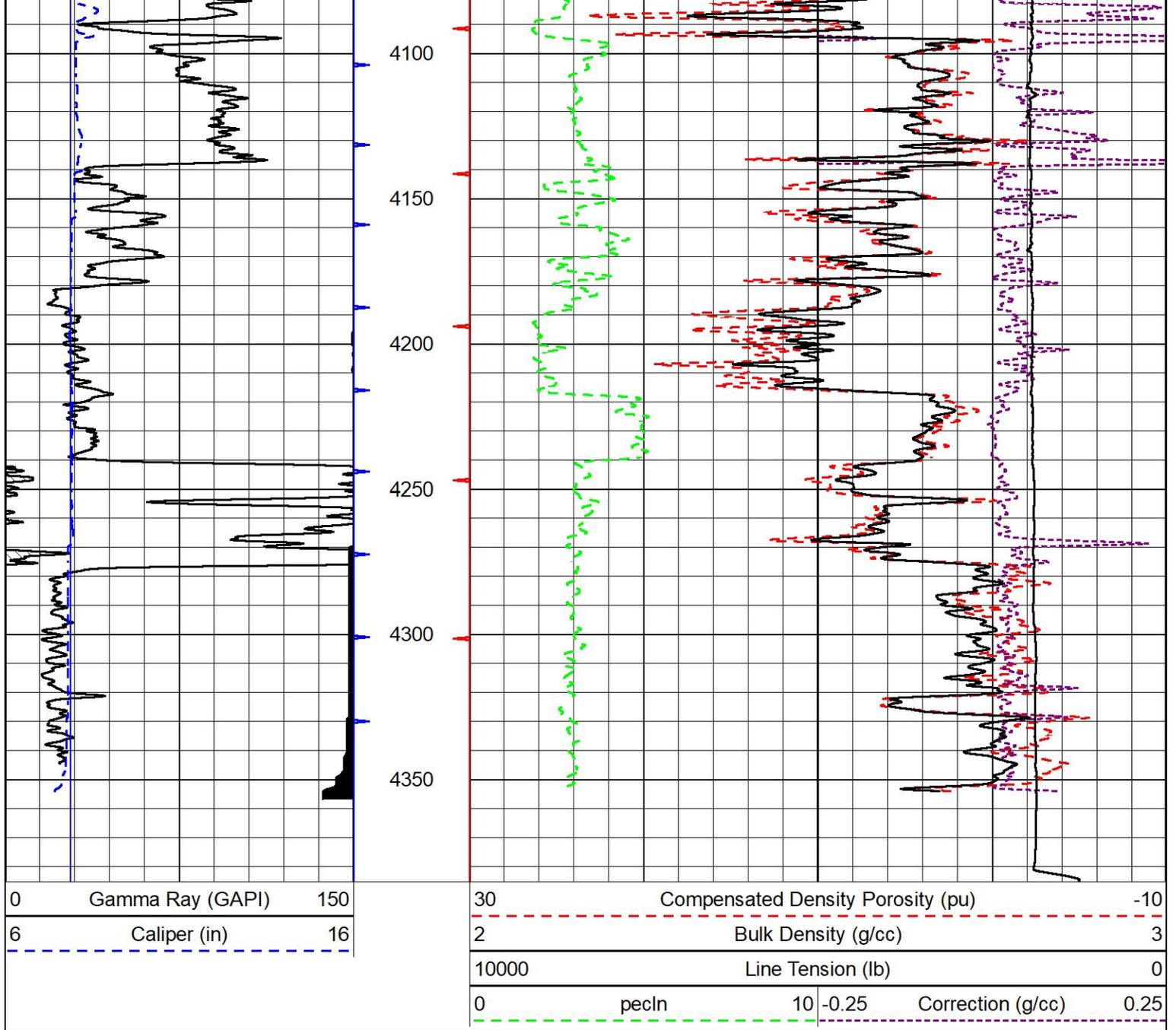








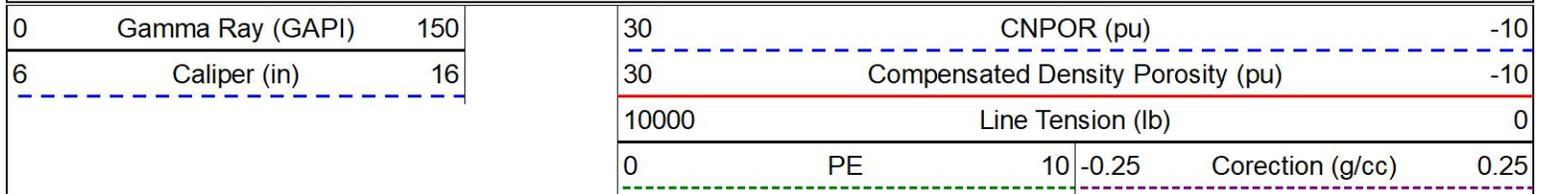


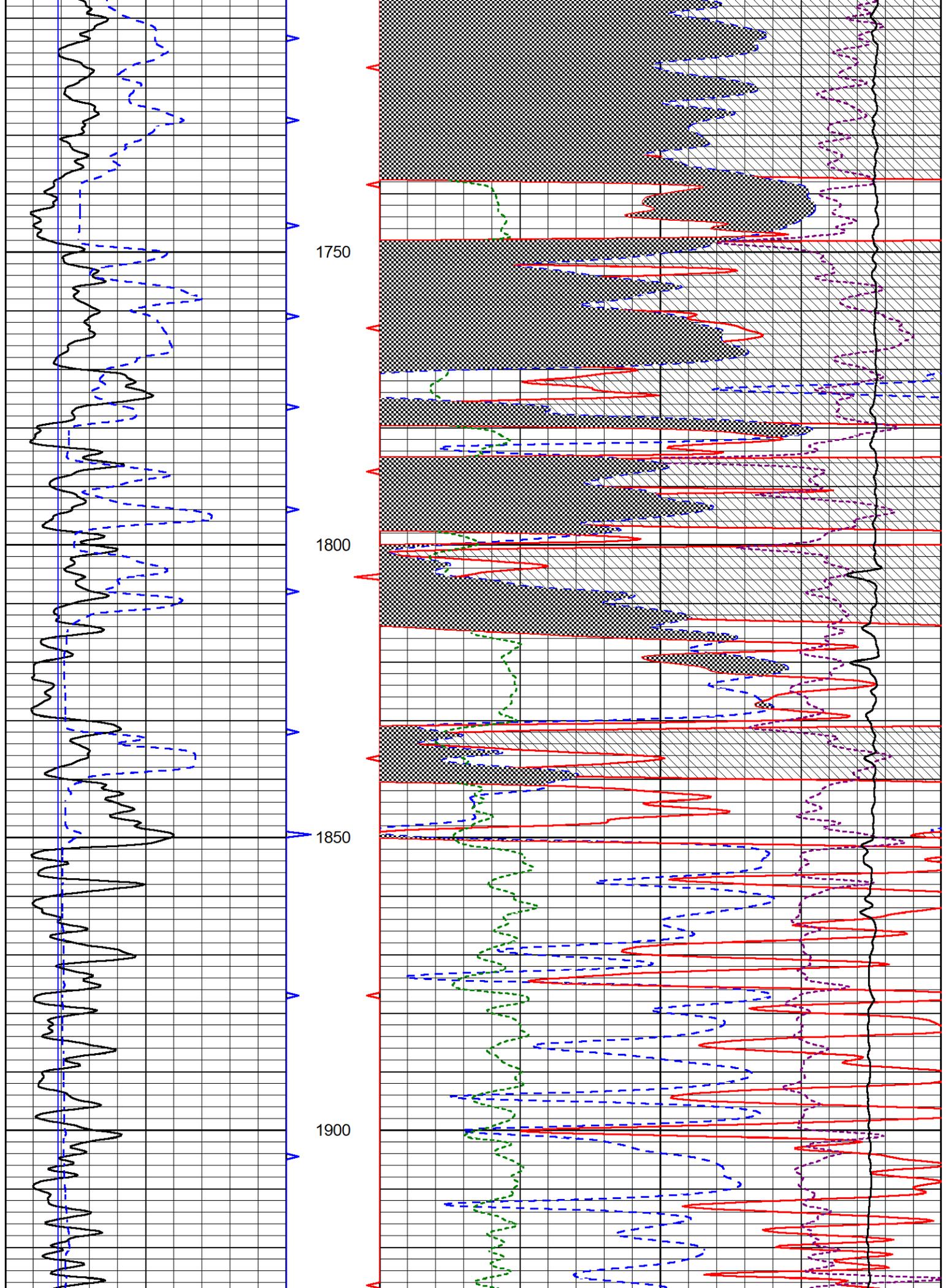


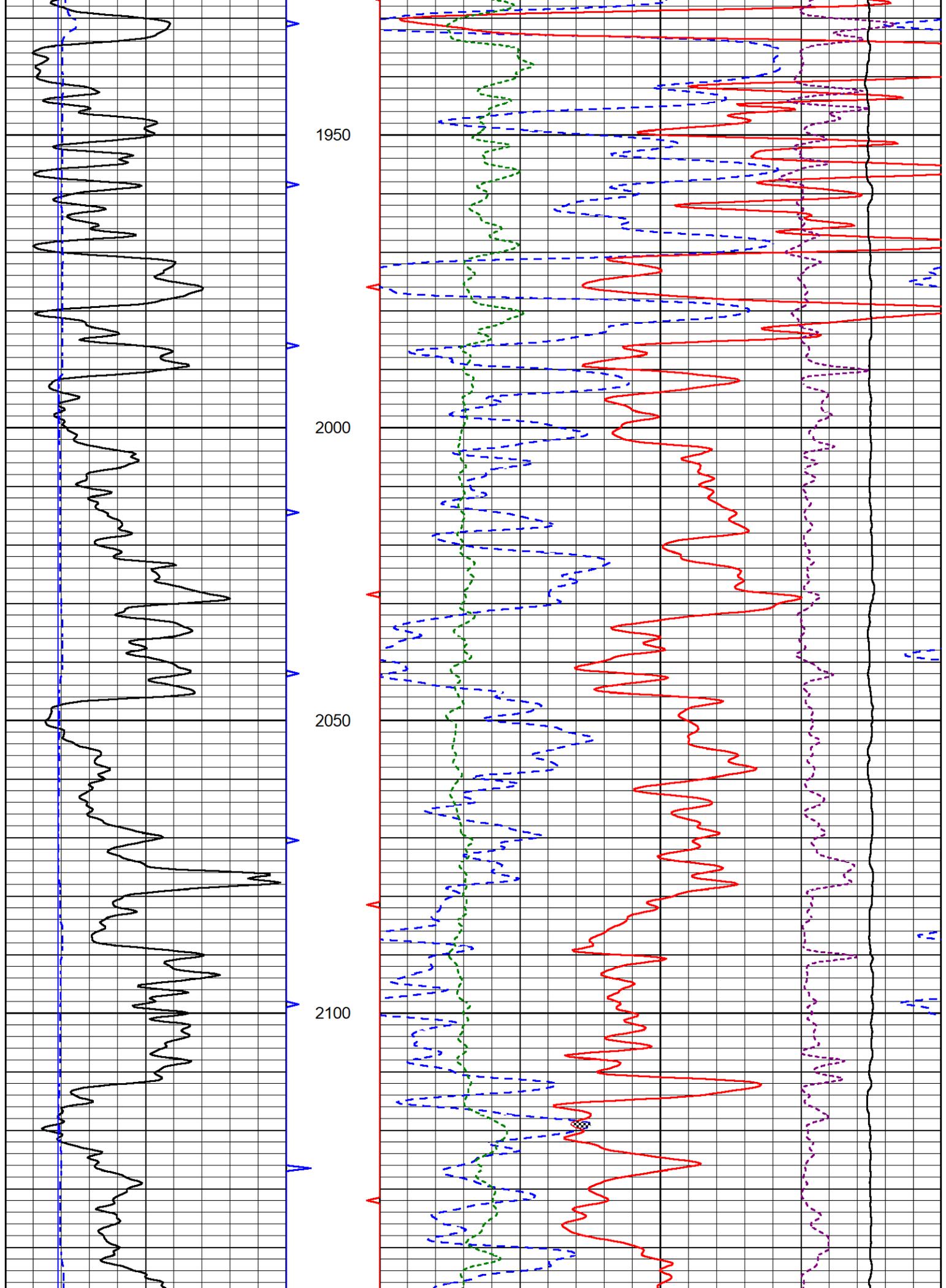
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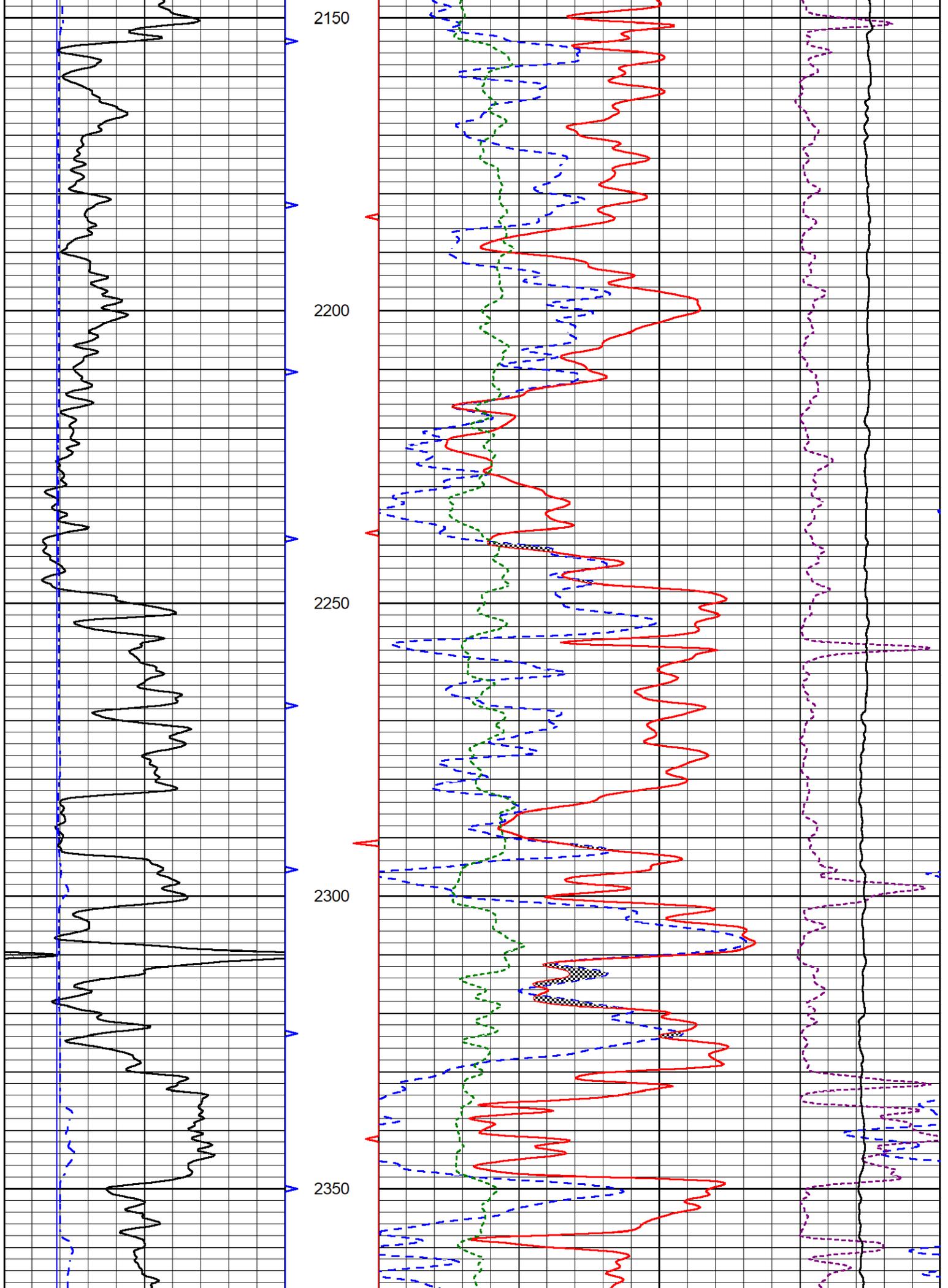
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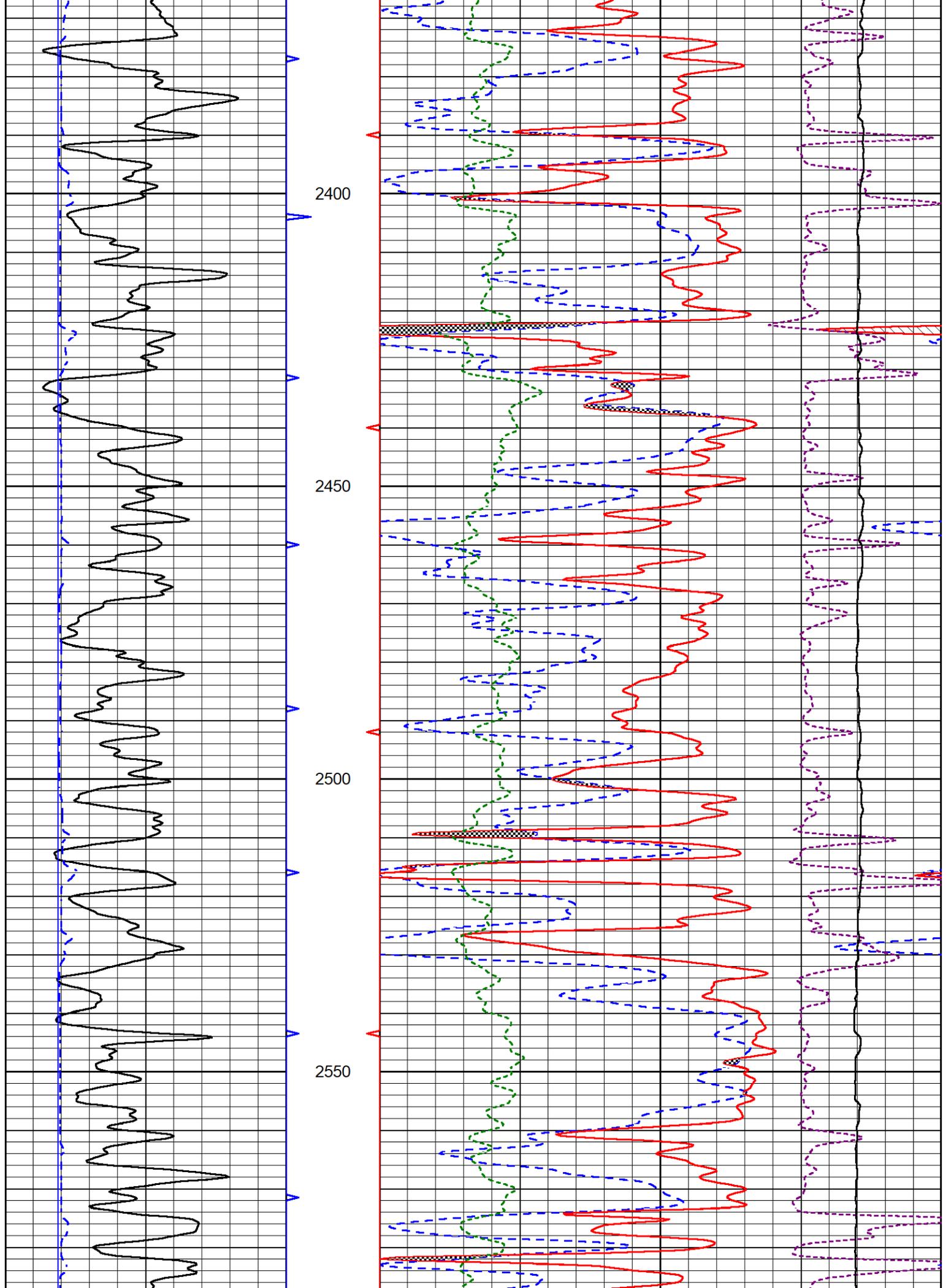
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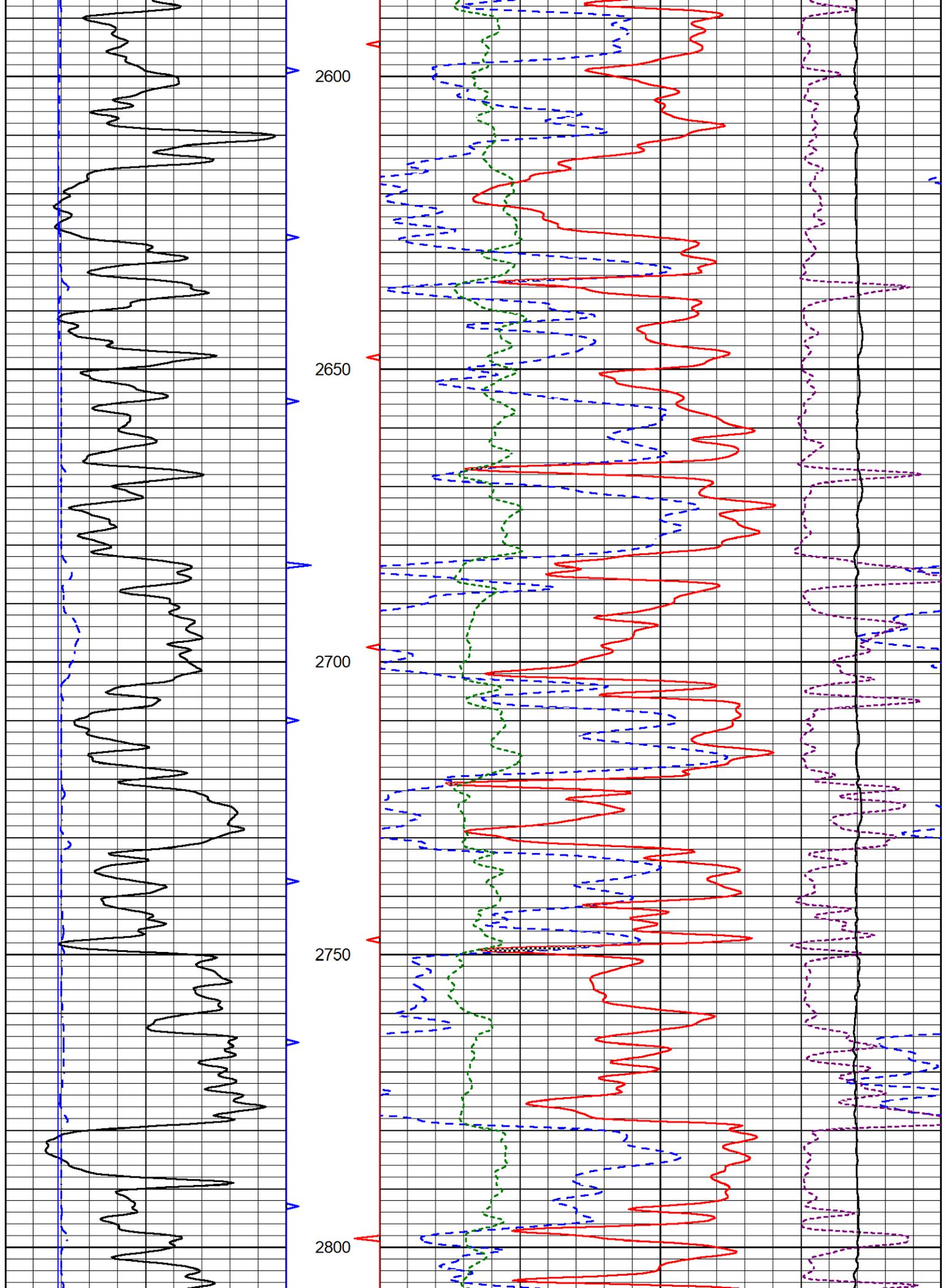


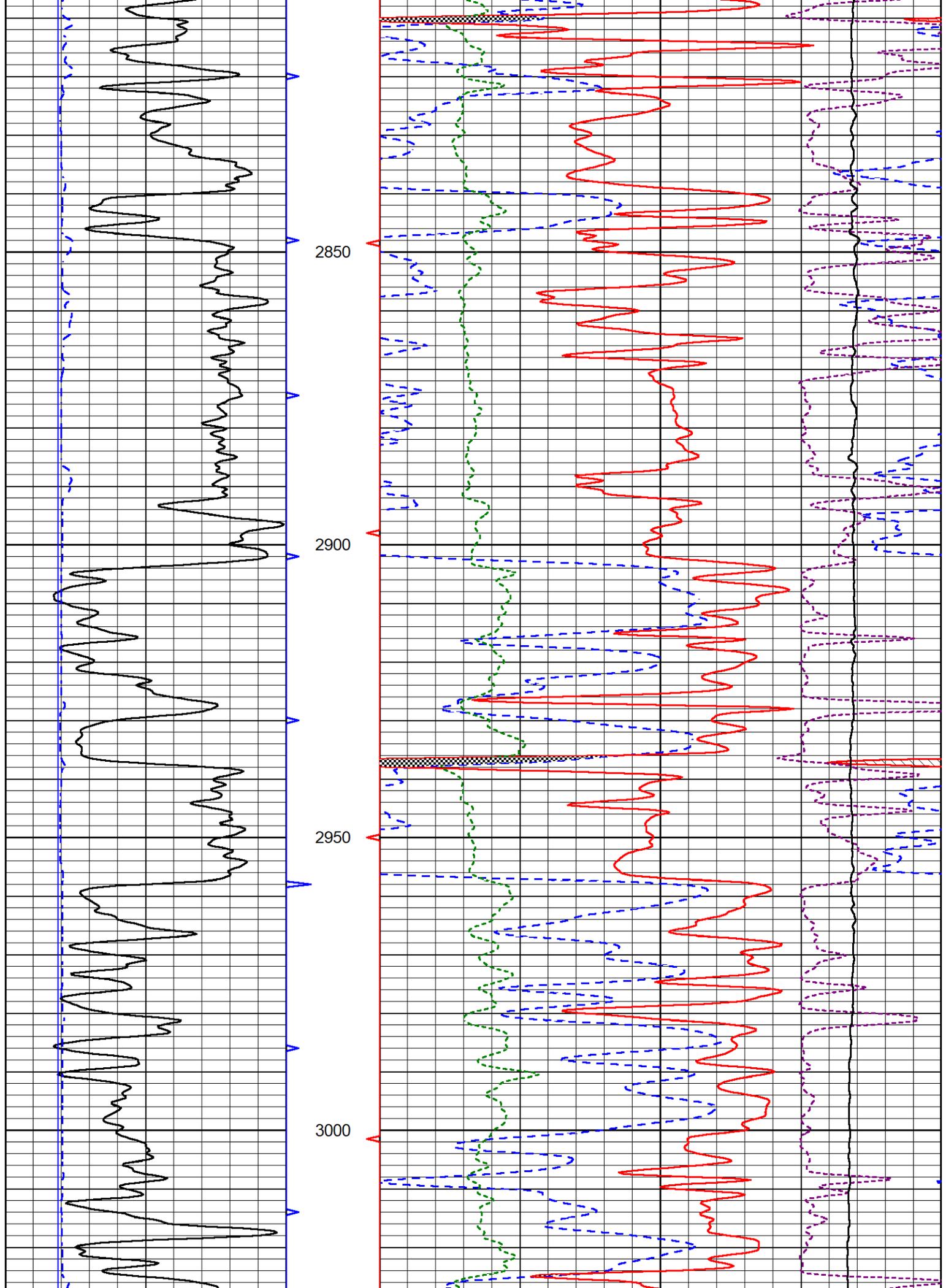


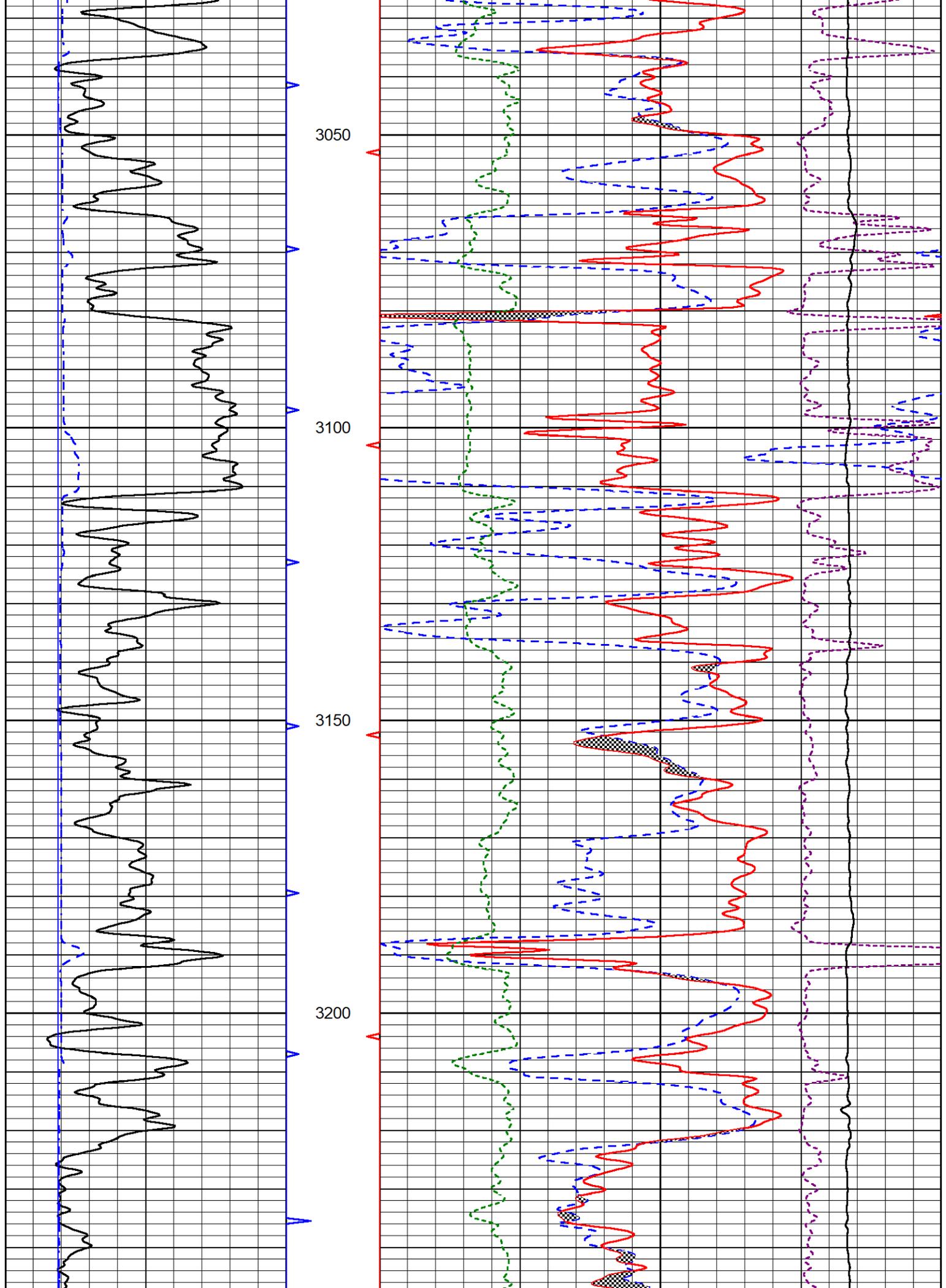


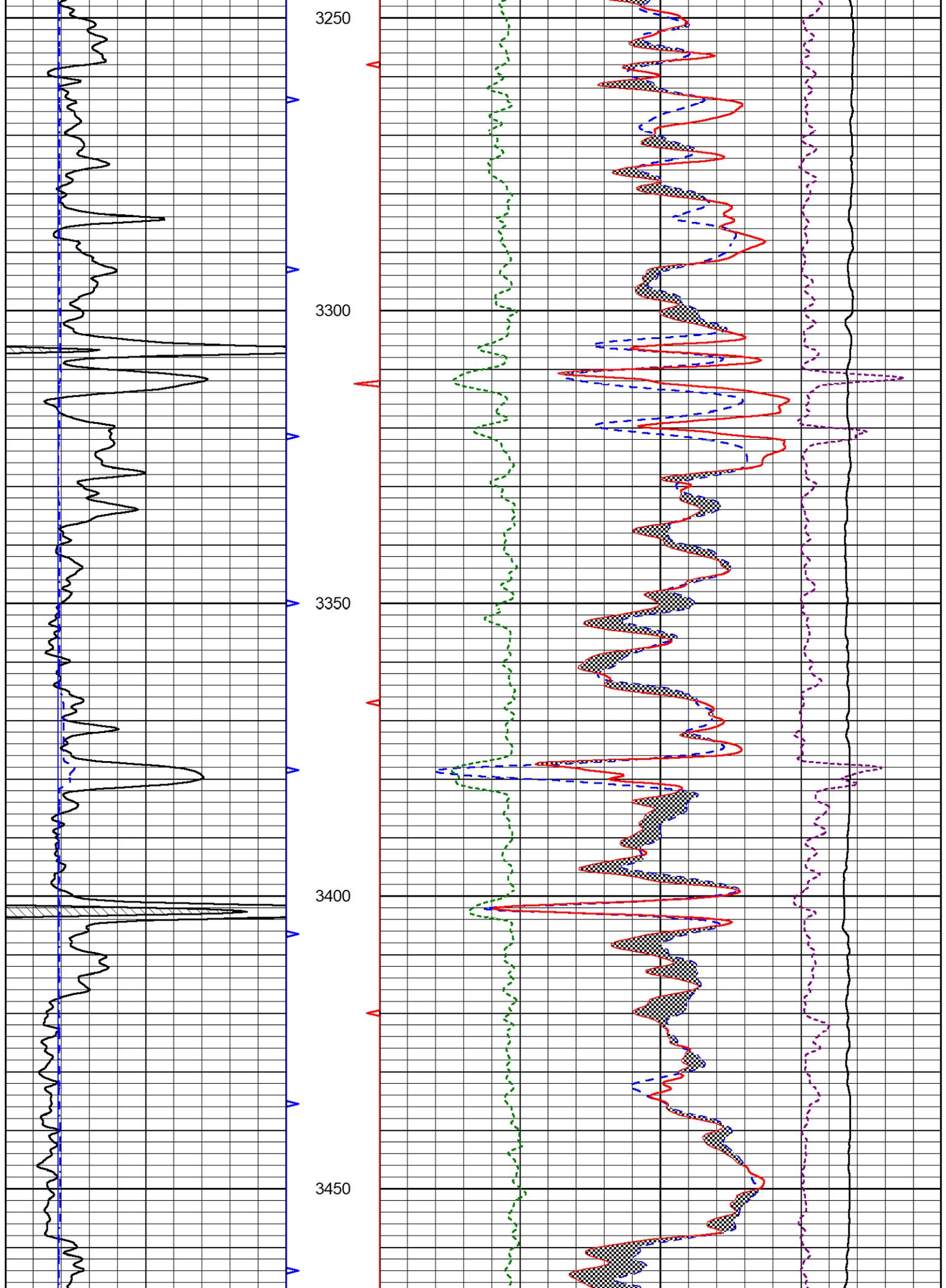


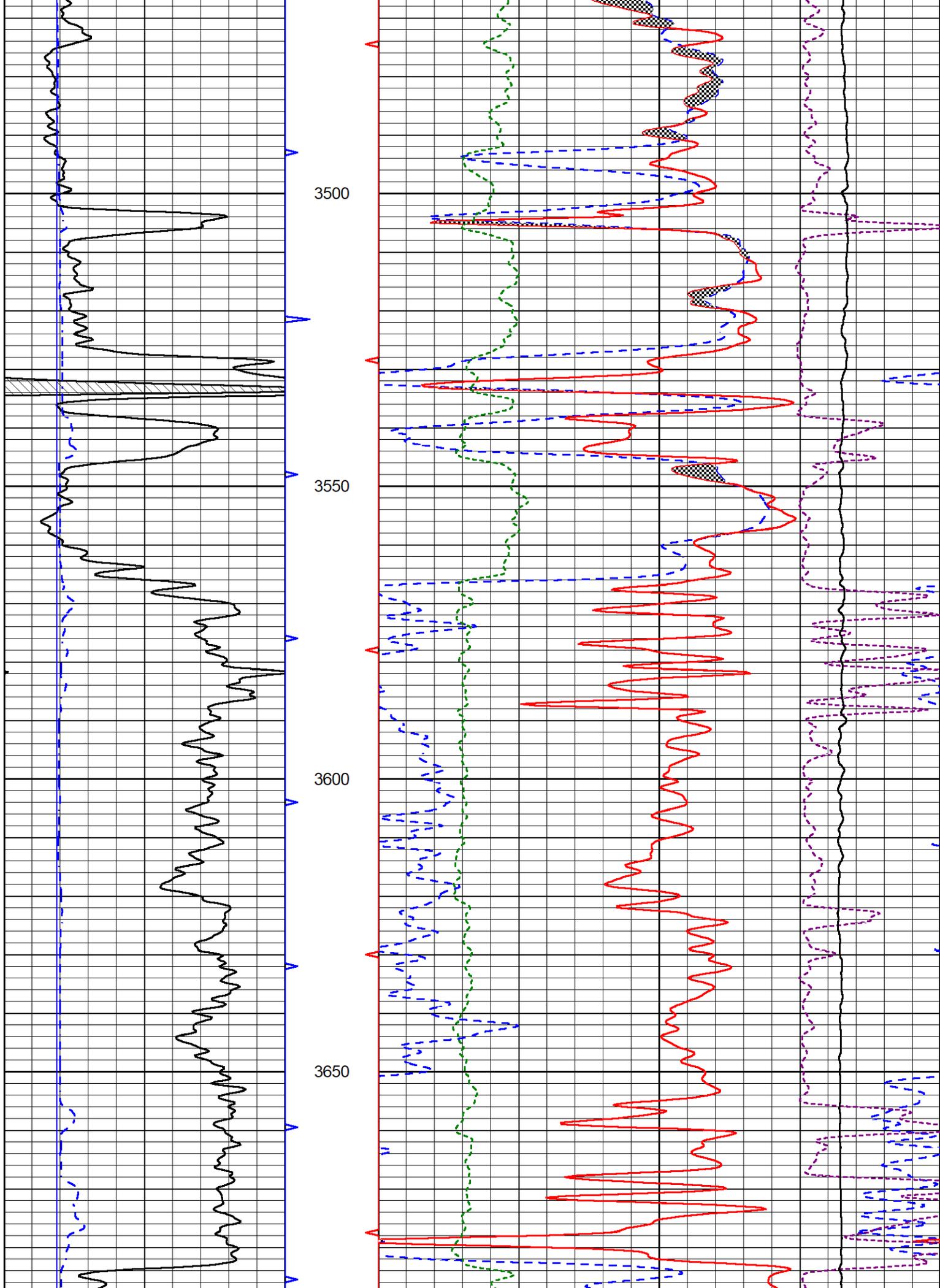


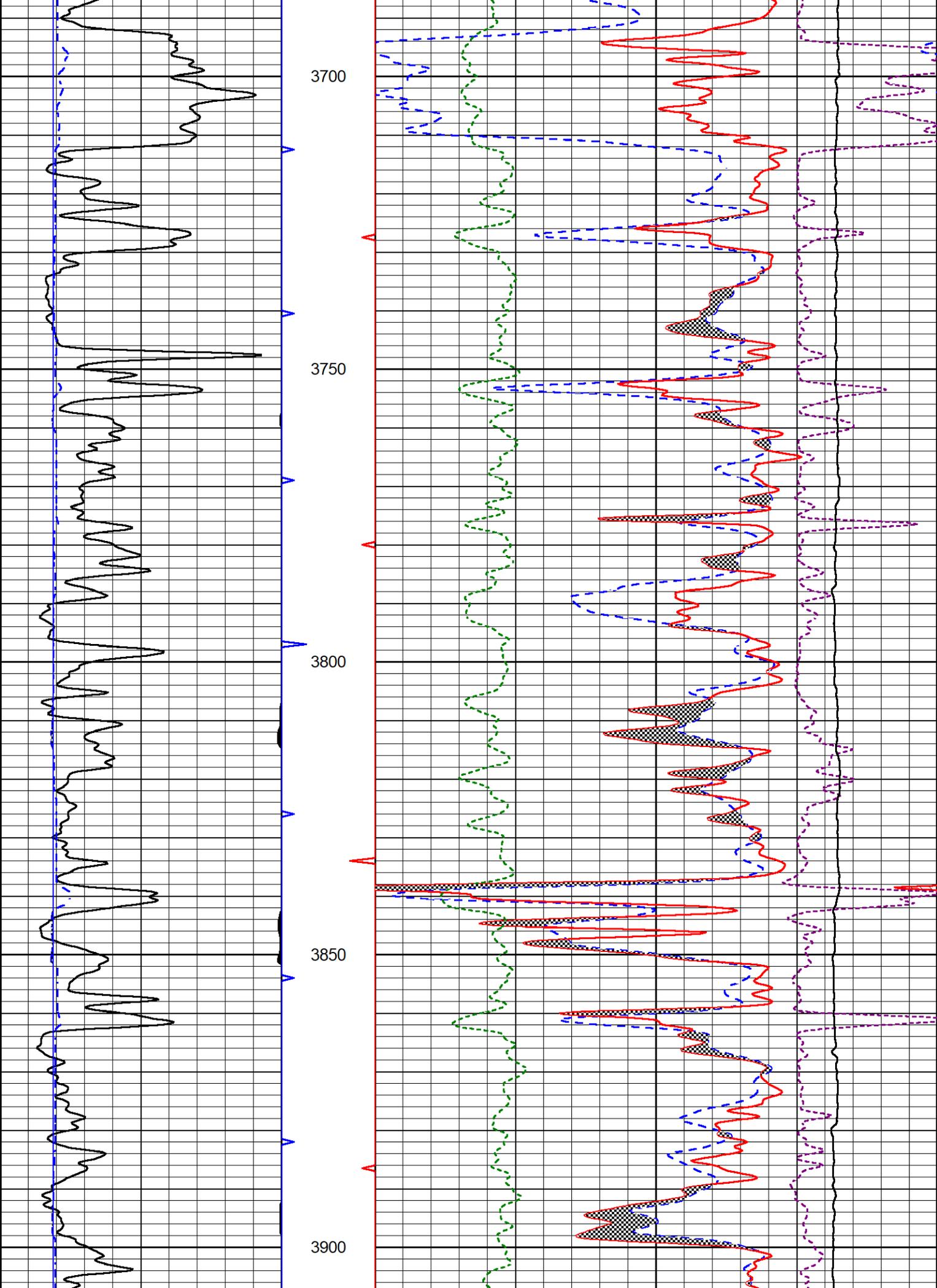


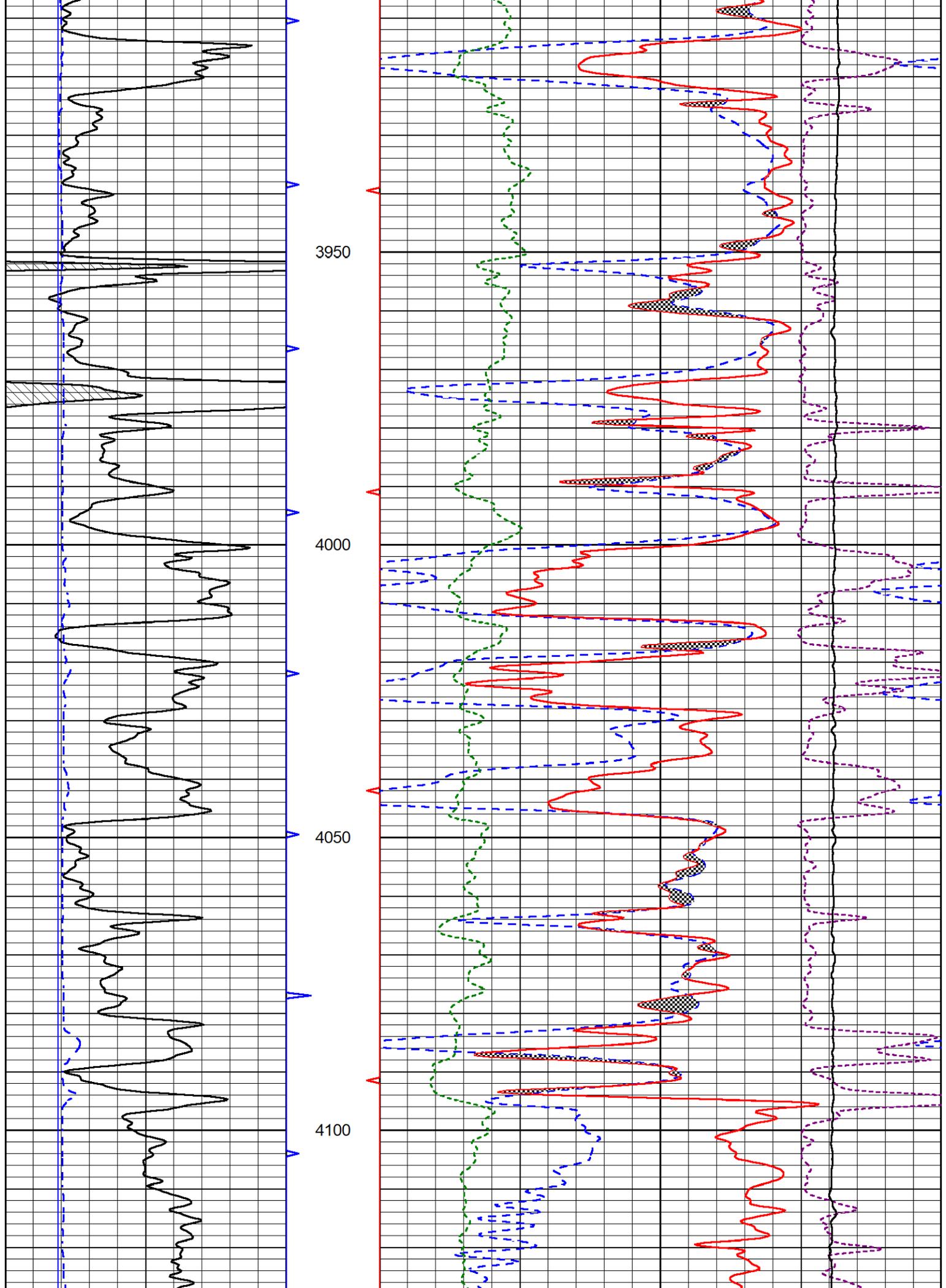


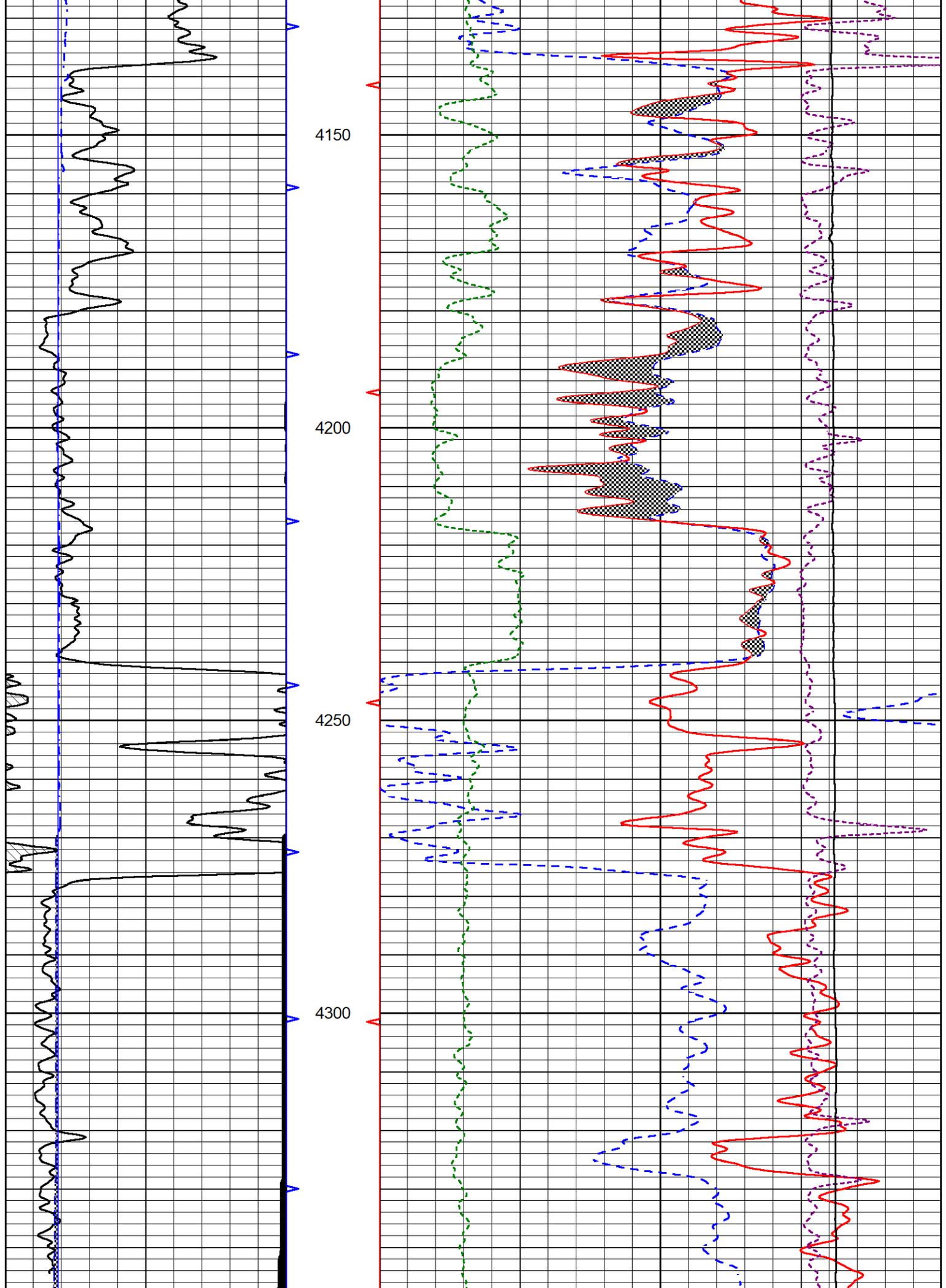




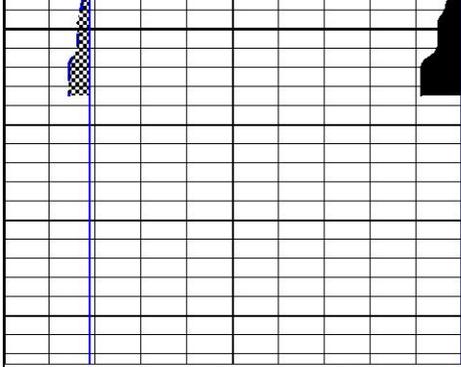




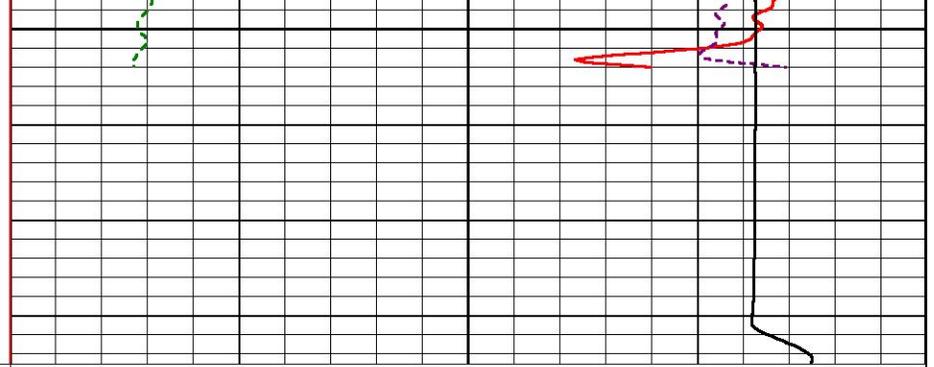




4350



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



30	CNPOR (pu)		-10
30	Compensated Density Porosity (pu)		-10
10000	Line Tension (lb)		0
0	PE	10	-0.25
			Corection (g/cc)
			0.25



MIDWEST WIRELINE

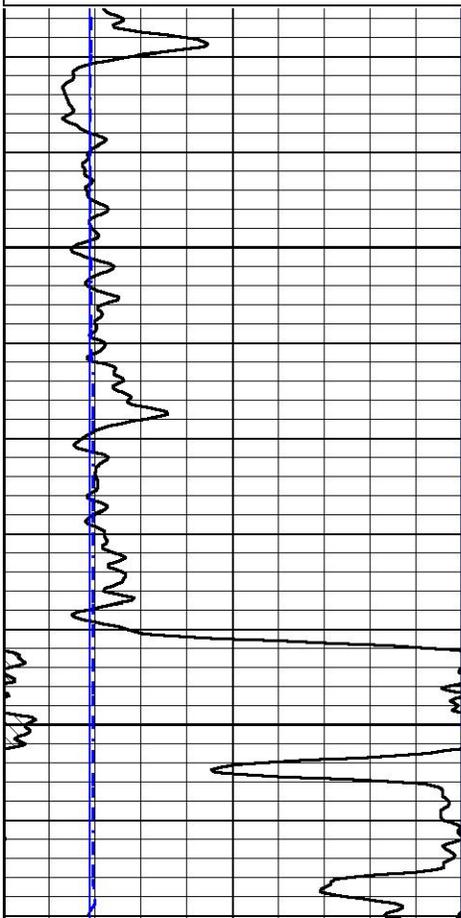
REPEAT SECTION

REPEAT PASS

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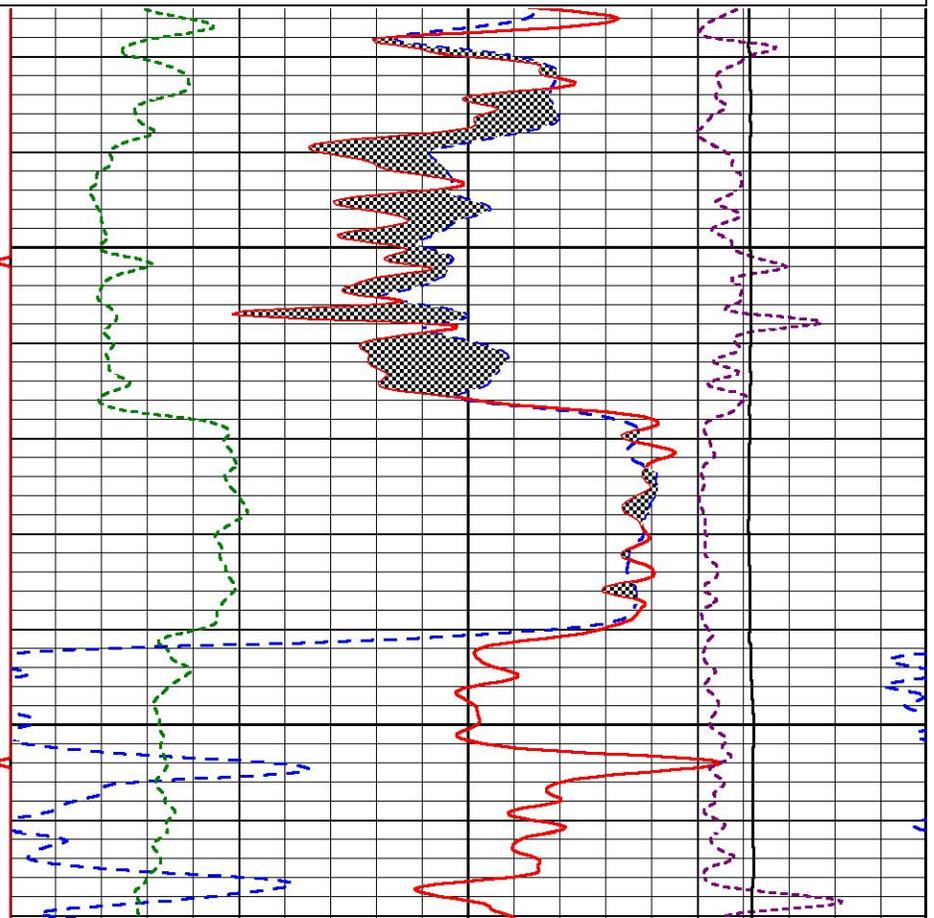
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

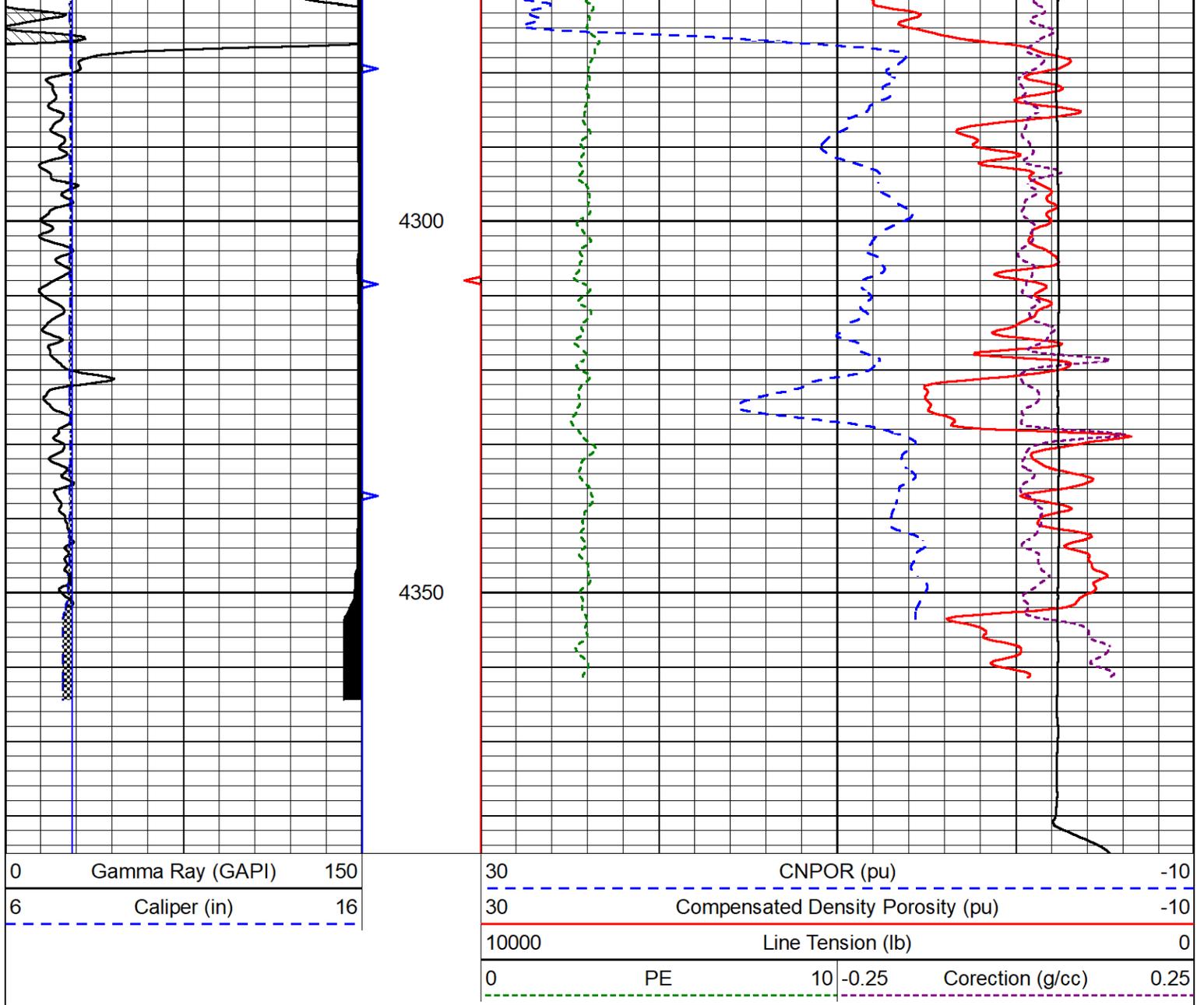
30	CNPOR (pu)		-10
30	Compensated Density Porosity (pu)		-10
10000	Line Tension (lb)		0
0	PE	10	-0.25
			Corection (g/cc)
			0.25



4200

4250





Calibration Report

Database File knighton_kipp c #1-26.db
 Dataset Pathname StkMI/pass3.1
 Dataset Creation Wed Apr 24 15:16:29 2024

Dual Induction Calibration Report

Serial-Model: 507-M&W
 Surface Cal Performed: Fri Jul 14 14:17:56 2023

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop	mmho/m	m	b
Deep	68.570	638.100	0.000	255.800	mmho/m	0.500	-37.000
Medium	184.288	716.191	0.000	255.800	mmho/m	0.450	-79.000

Microlog Calibration Report

Serial-Model: 401-PSIML
 Performed: Mon Sep 25 22:02:56 2023

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	5750.0000	0.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	8500.0000	-0.4000
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-138.9000

LITHODENSITY Calibration Report

Serial Number: 704-10
Tool Model: STEP LITHO
Performed: Wed Oct 11 14:52:04 2023

Source:

	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	52	56	202	260	22	71	45	1	cps
LS:	82	93	356	462	52	144	94	3	cps
Aluminum:									
SS:	868	1009	2312	2012	39	73	47	2	cps
LS:	1063	1847	3324	1556	63	146	95	6	cps
Magnesium:									
SS:	1458	1686	3853	2923	42	73	48	3	cps
LS:	4604	7631	13124	4967	100	134	94	14	cps
Aluminum+Iron:									
SS:	538	708	1910	1720	37	73	47	1	cps
LS:	619	1309	2817	1400	60	147	97	5	cps

	Density Actual	Calibrated	PE Actual	Calibrated	Quality
Background:					
SS:					0.225
LS:					0.208
Aluminum:					
SS:	2.6000	2.6000	g/cc		0.210
LS:	2.6000	2.6000	g/cc		0.210
Magnesium:					
SS:	1.6800	1.6800	g/cc	2.5700	2.5700
LS:	1.6800	1.6800	g/cc	2.5700	2.5700
Aluminum+Iron:					
SS:				6.1800	0.215
LS:				6.1800	0.205

Caliper: Reference: Reading:
Small Ring: 6.0 in 0.2
Large Ring: 16.0 in 0.8
Gain: 16.161
Offset: 1.050

Compensated Neutron Calibration Report

Serial Number: 207
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:	102	
Tool Model:	M&W	
Performed:	Mon Sep 25 22:02:33 2023	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5250	GAPI/cps



Company	Knighton Oil Company, Inc.
Well	Kipp C #1-26
Field	Kipp
County	Stafford
State	Kansas