MIDWEST WIRELINE

DUAL COMPENSATED POROSITY / MICRO LOG

Company Murfin Drilling Company, Inc.
Well CWA 'G' #1-8
Field
County Cheyenne State Kansas
Location: API # : 15-023-21560-00-00
330 FSL & 1080 FWL
SEC 8 TWP 3S RGE 37W

Other Services
DIL/BHCS

Elevation
K.B. 3436
D.F.
G.L. 3431

Permanent Datum Ground Level Elevation 3431
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Company	Murfin Drilling Company, Inc.
Well	CWA 'G' #1-8
Field	
County	Cheyenne
State	Kansas
Date	11/5/2021
Run Number	One
Type Log	CNL / CDL / ML
Depth Driller	5150
Depth Logger	5150
Bottom Logged Interval	5149
Top Logged Interval	3750
Type Fluid In Hole	Chemical
Salinity, PPM CL	1400
Density	9.2
Level	Full
Max. Rec. Temp. F	128
Operating Rig Time	6 Hours
Equipment -- Location	P-24 | HAYS
Recorded By	D. Schmidt
Witnessed By	Robert Hendrix

Borehole Record

Run No.	Bit	From	To
One	12.25	0	403
Two	7.875	403	TD

Casing Record

Size	Wgt.	From	To
8.625	23	0	403

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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.

McDonald,
West to 30 Rd, 4 North, 1/4 East,
South 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: D. Schmidt	Primary Witness: Robert Hendrix
Operator:	Secondary Witness:
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-M&W (233-M&W)	3.00	3.50	50.00
GR	40.58					
CNLSC	37.48		CNT-M&W (207-MW)	5.50	3.50	100.00
CNSSC	36.73					
			CDL-M&W (934-226)	8.50	4.00	250.00
LSD	28.43					
DCAL	28.42					
SSD	27.93					
			ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics	7.58	4.00	65.00
MCAL	19.83					
MI	19.83					
MN	19.83					
RLL3F	15.80					
RLL3	15.80					
			DIL-PSI HIGH TEMP (952-828)	18.50	3.50	220.00
CILD	8.00					
CILM	4.70					
SP	0.20					

Dataset: murfin_cwa g 1-8.db: field/well/stkml/pass4.1
Total length: 43.08 ft
Total weight: 685.00 lb
O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_cwa g 1-8.db
Dataset field/well/stkml/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	128	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	320	50	Off	5150

Variable Description

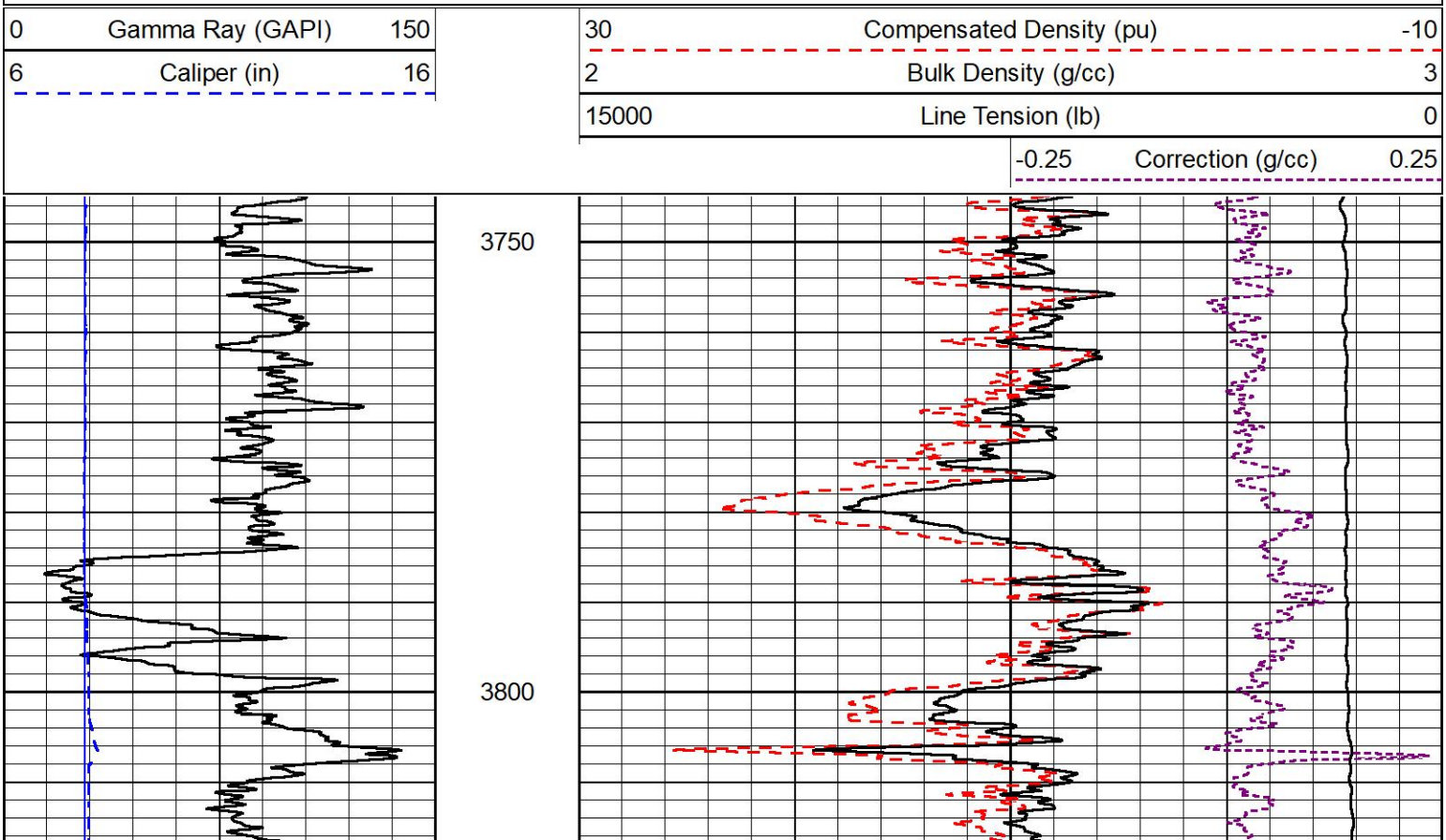
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

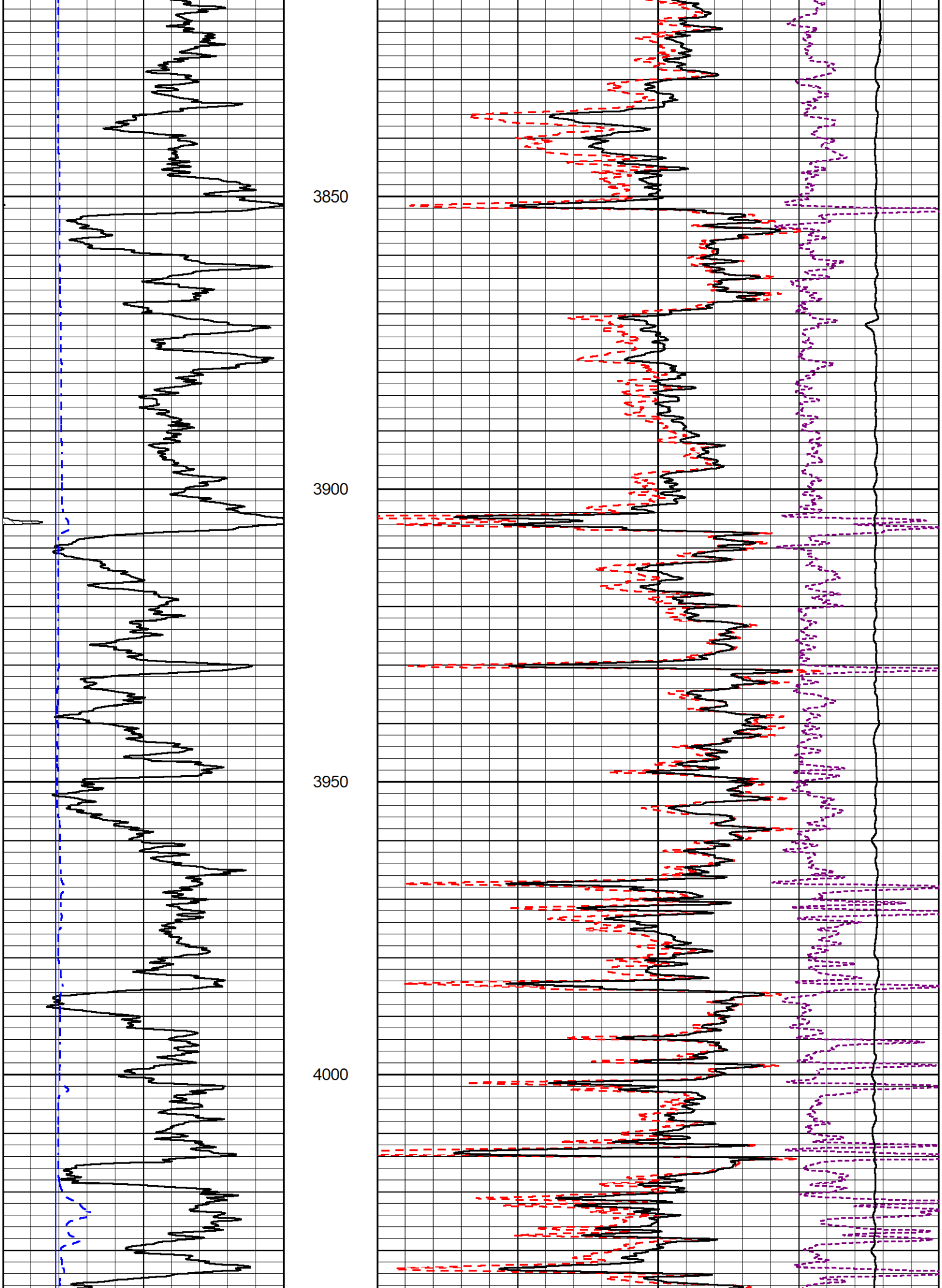
MIDWEST WIRELINE

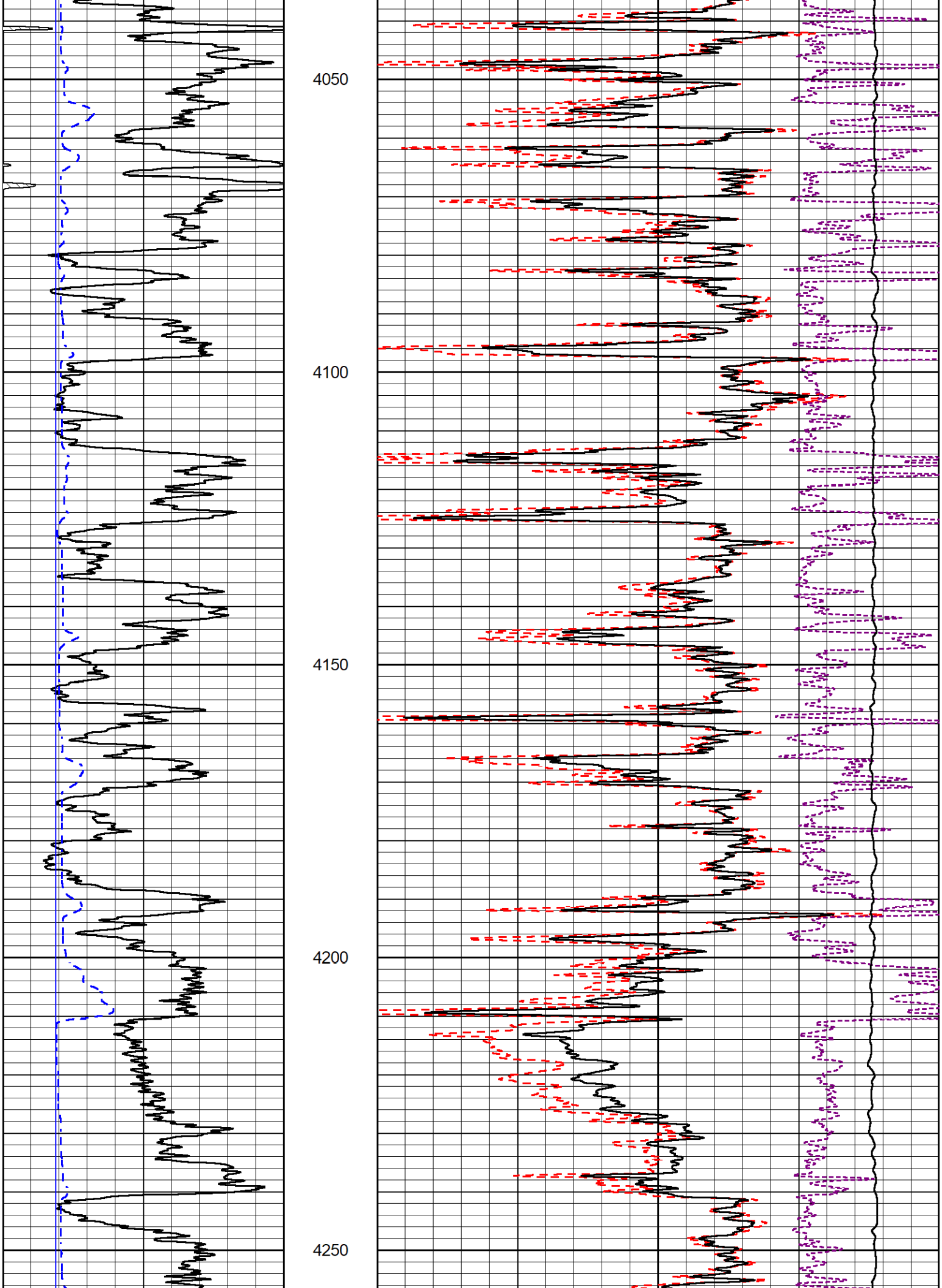
5" SCALE BULK DENSITY

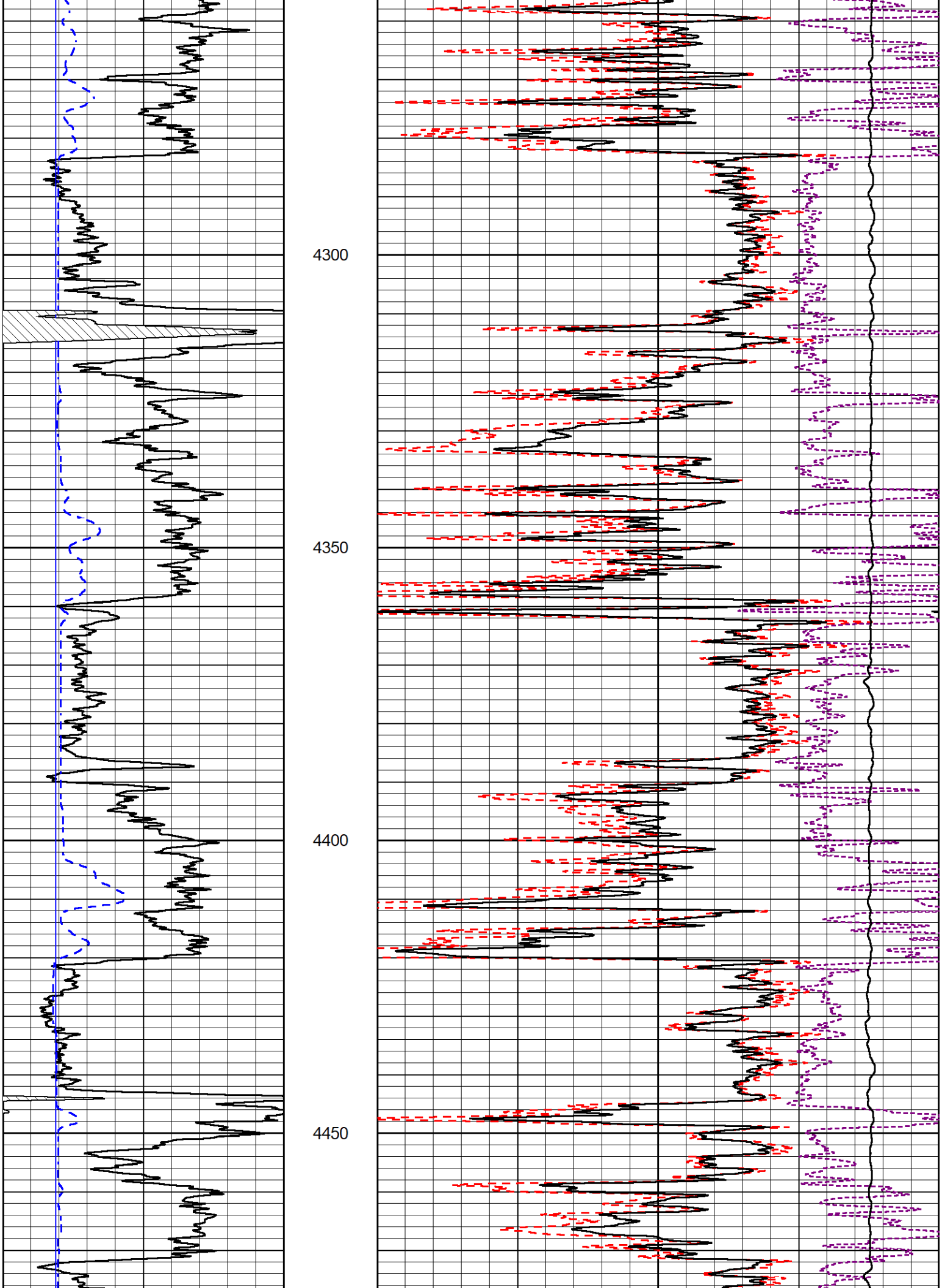
MAIN PASS

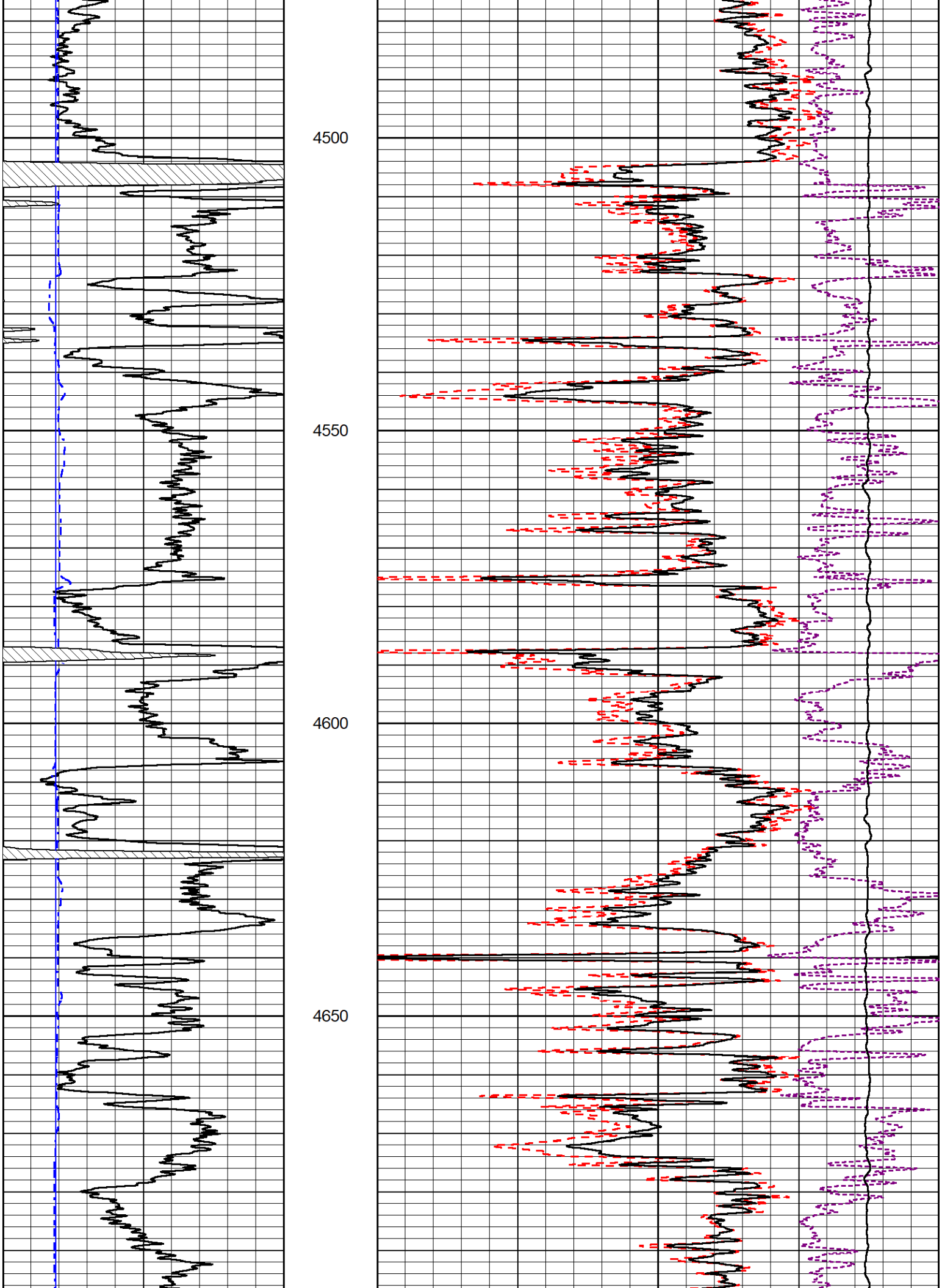
Database File	murfin_cwa g 1-8.db
Dataset Pathname	stkml/pass5.1
Presentation Format	_cdl
Dataset Creation	Fri Nov 05 09:08:11 2021
Charted by	Depth in Feet scaled 1:240

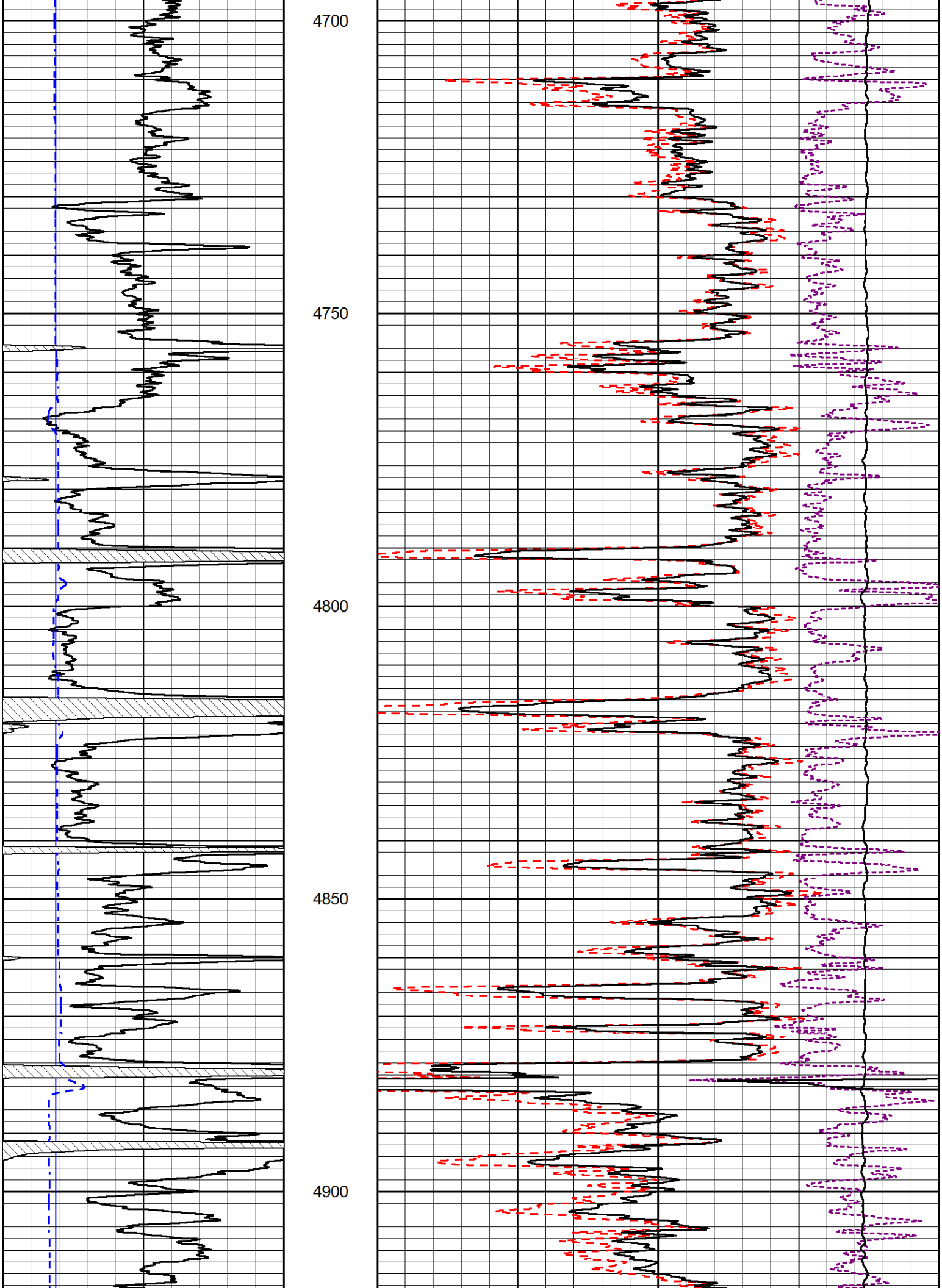


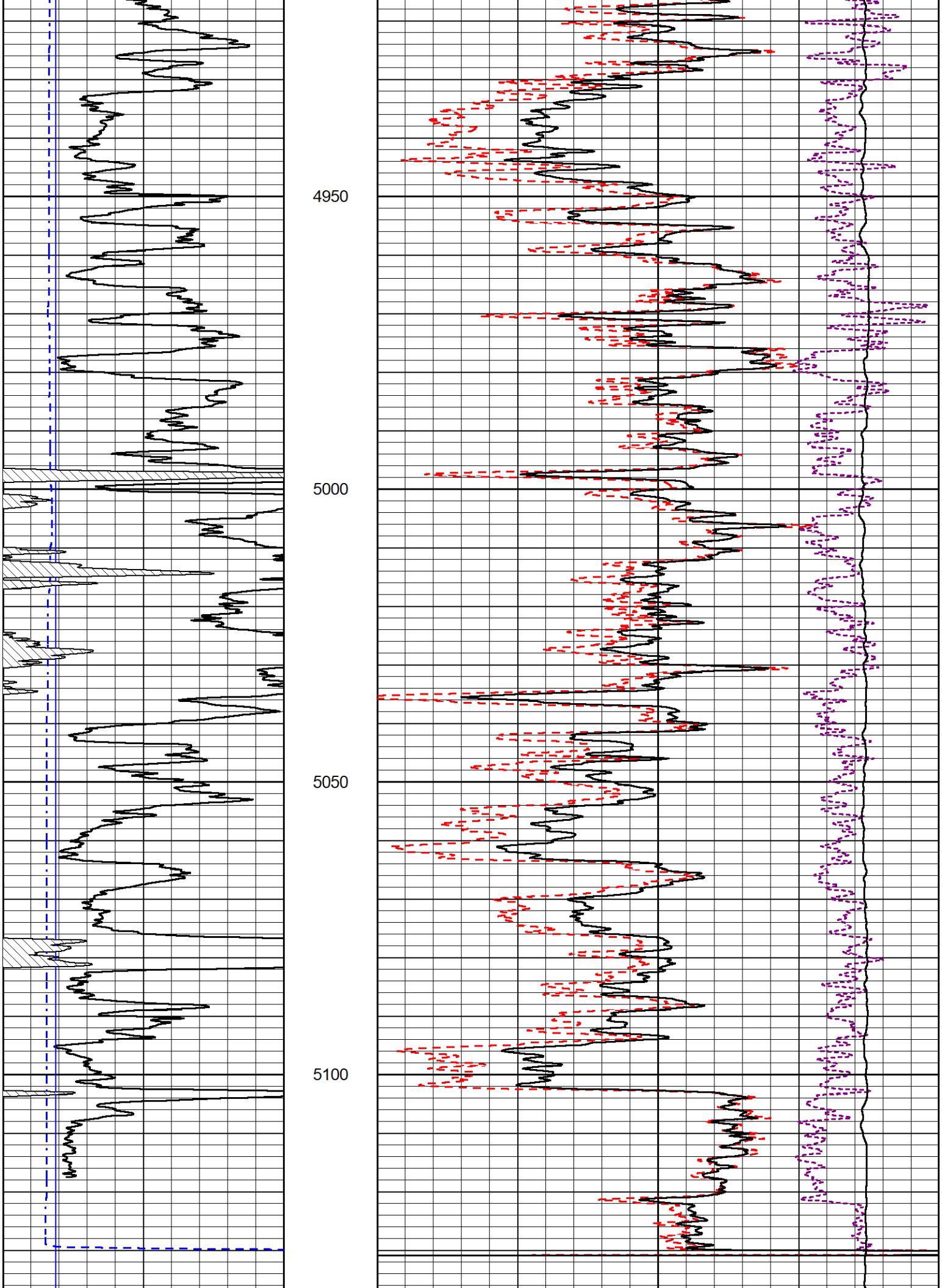

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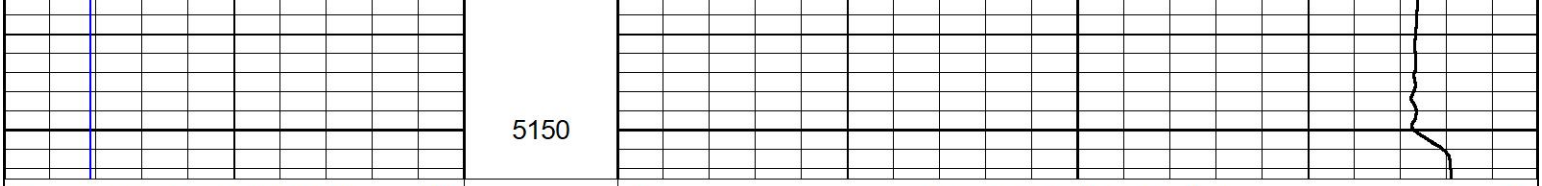

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5100



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

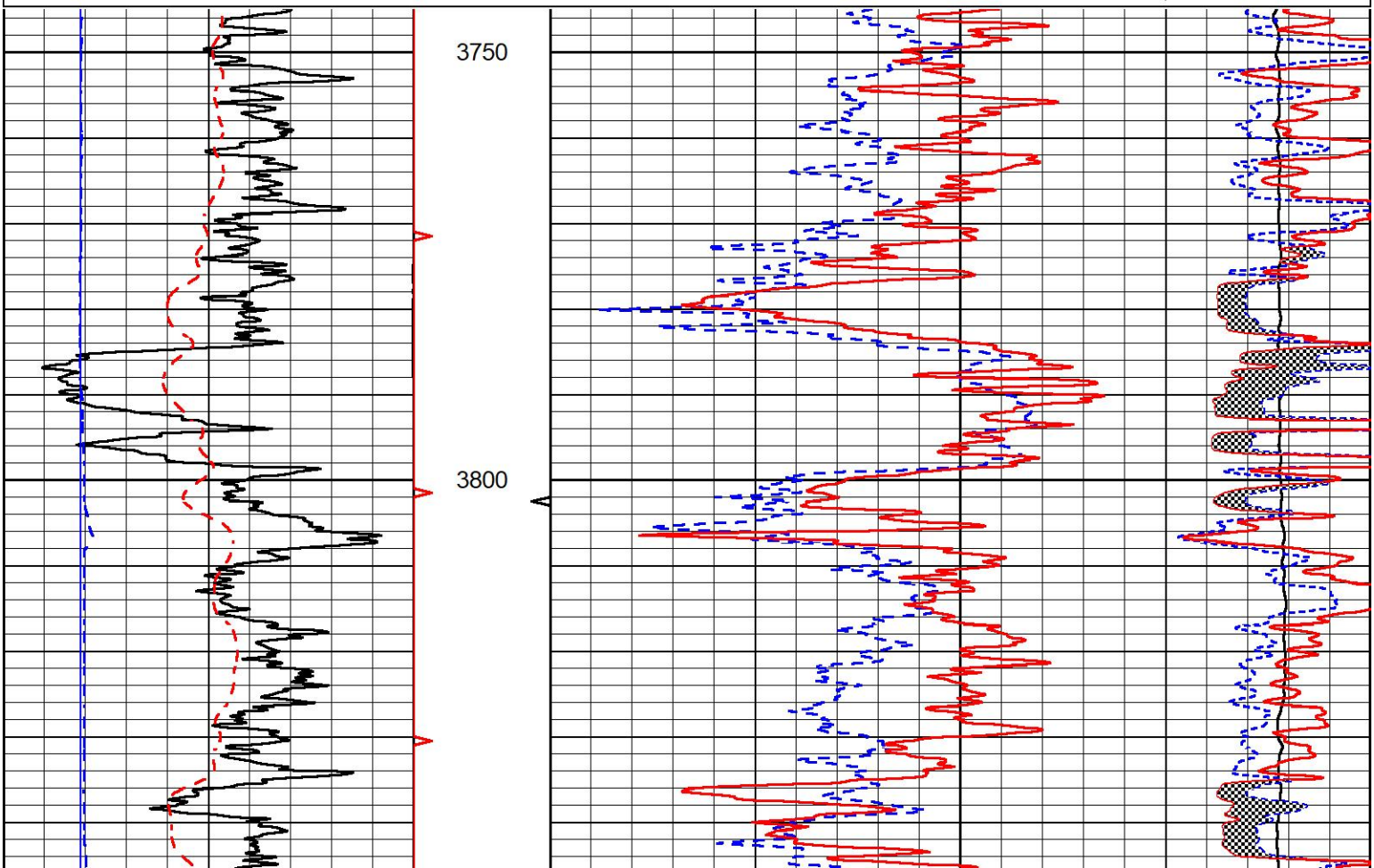
MAIN PASS

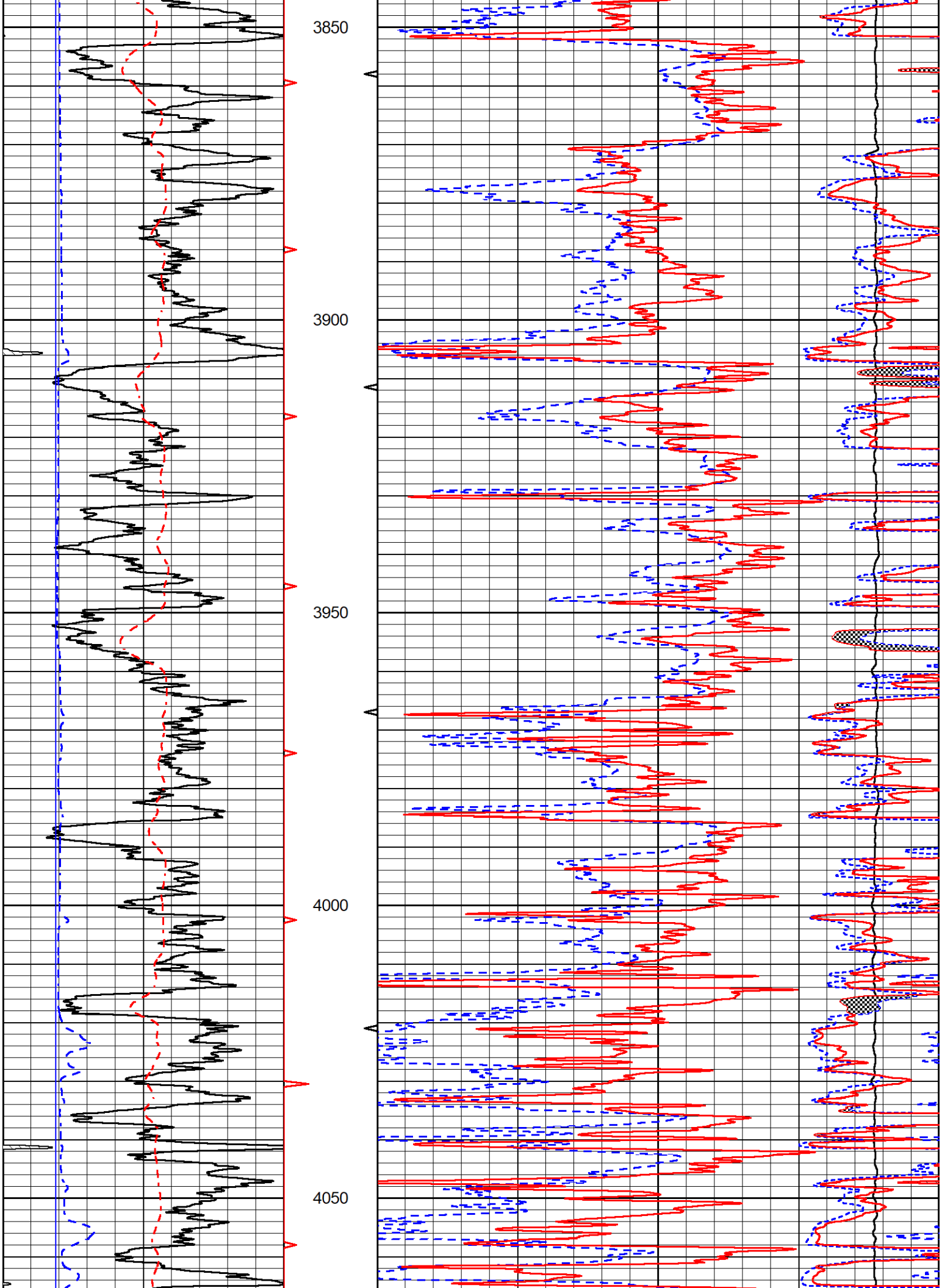
Database File	murfin_cwa g 1-8.db
Dataset Pathname	stkml/pass4.1
Presentation Format	_CNDLS~2
Dataset Creation	Fri Nov 05 08:59:51 2021
Charted by	Depth in Feet scaled 1:240

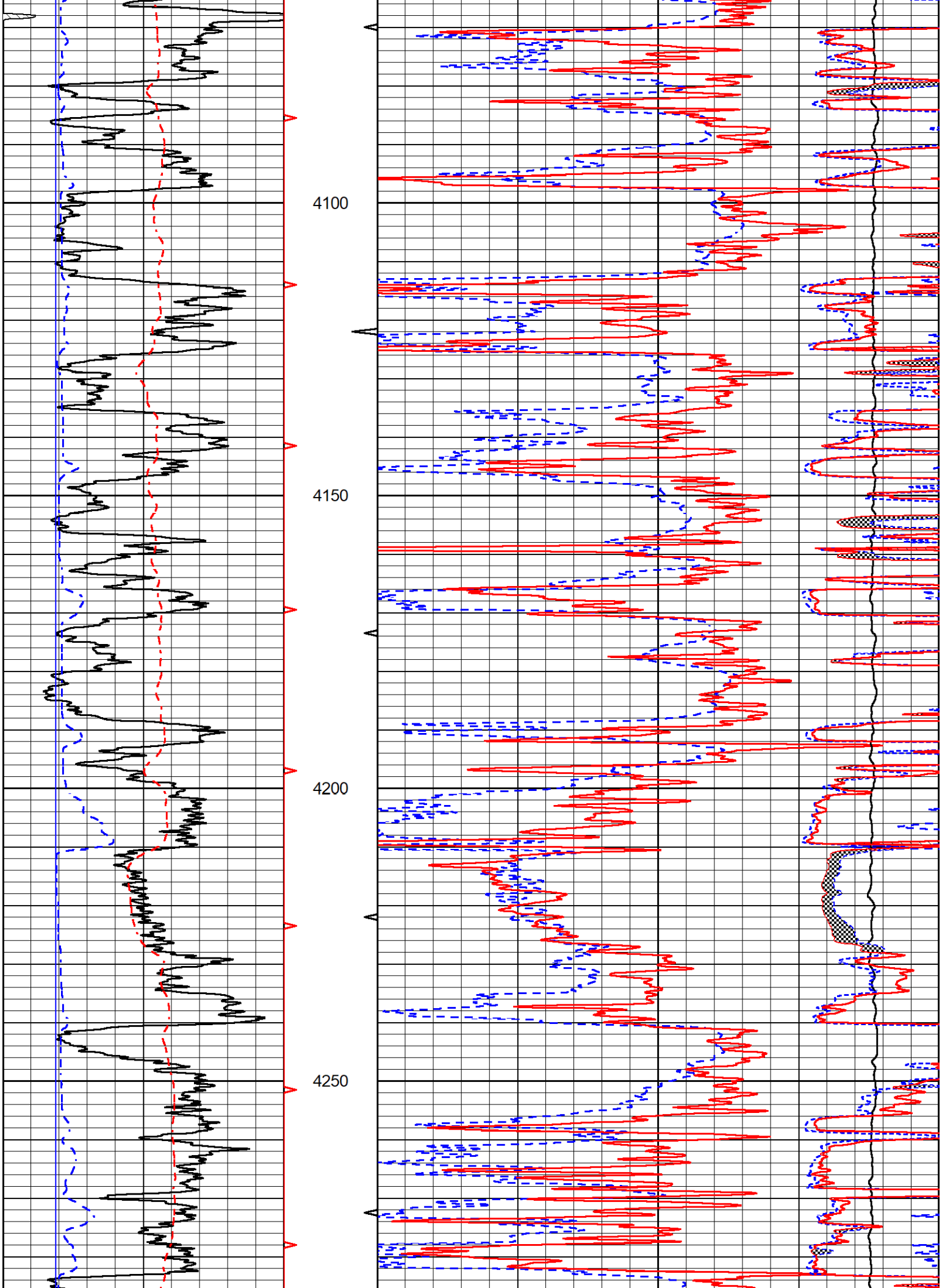
0	Gammy Ray (GAPI)	150
6	Caliper (in)	16
-200	SP (mV)	0

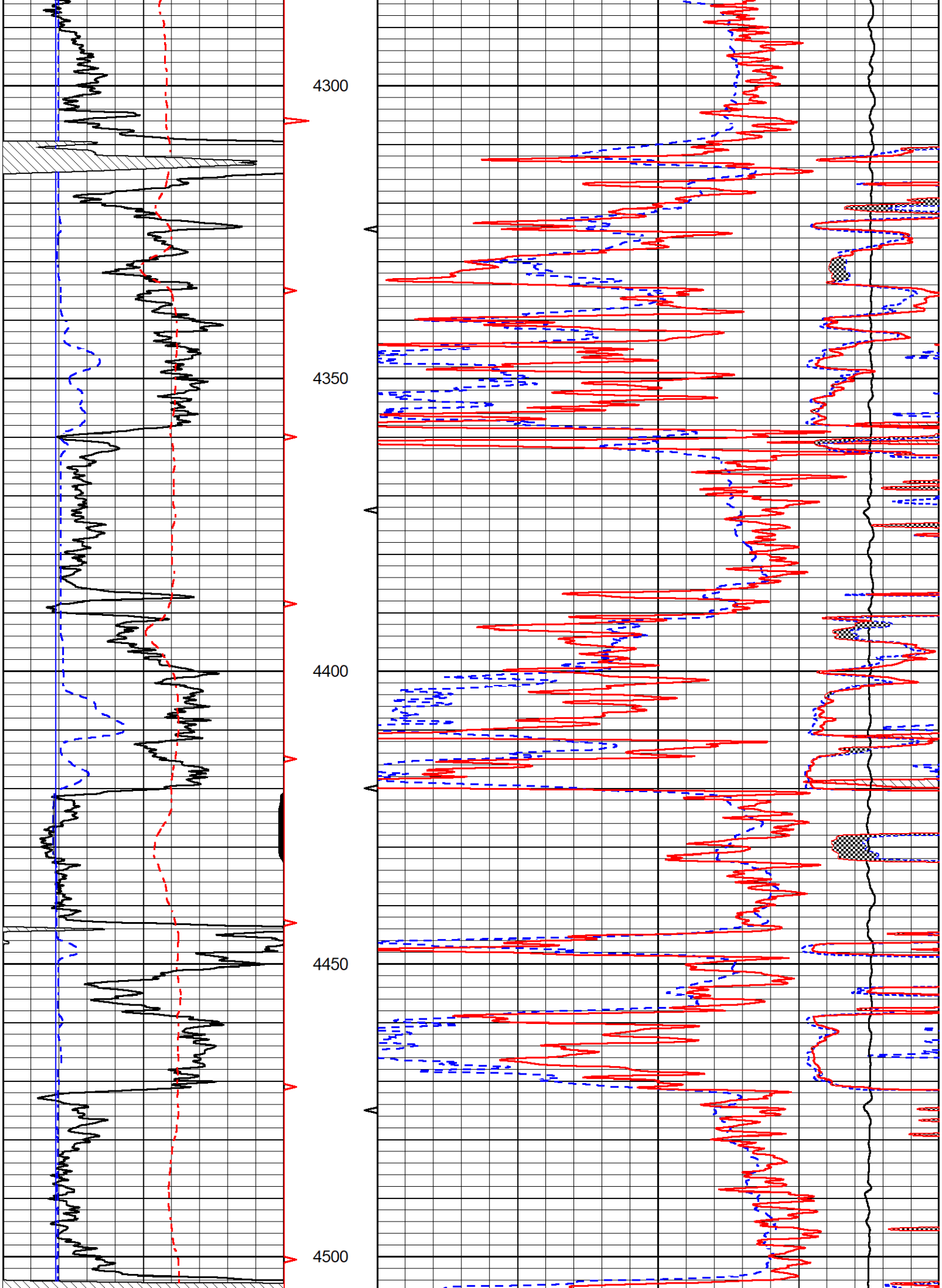
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
15000	Line Tension (lb)	0

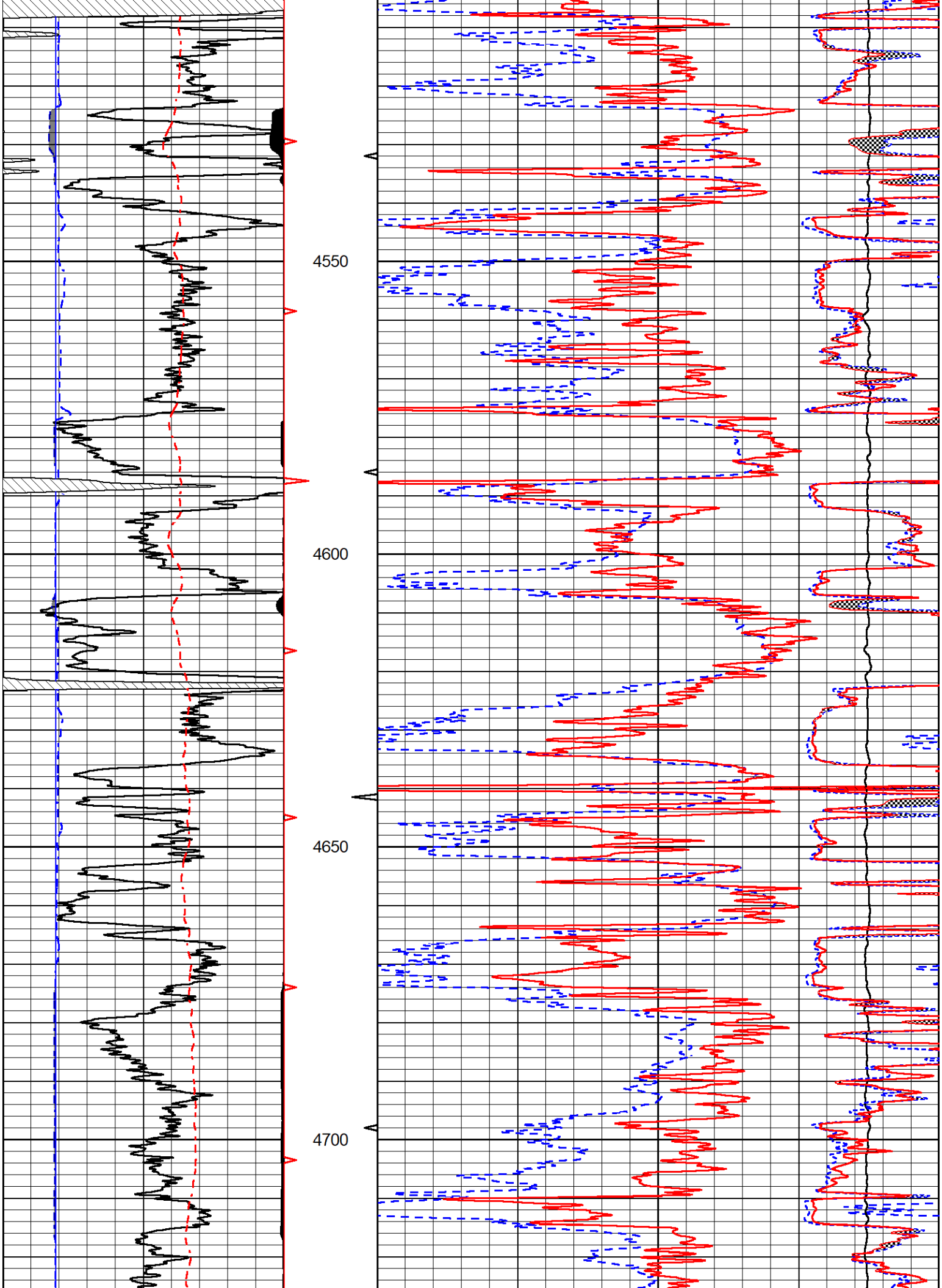
	Micro Normal	
0	(Ohm-m)	20
	Micro Inverse	
0	(Ohm-m)	20

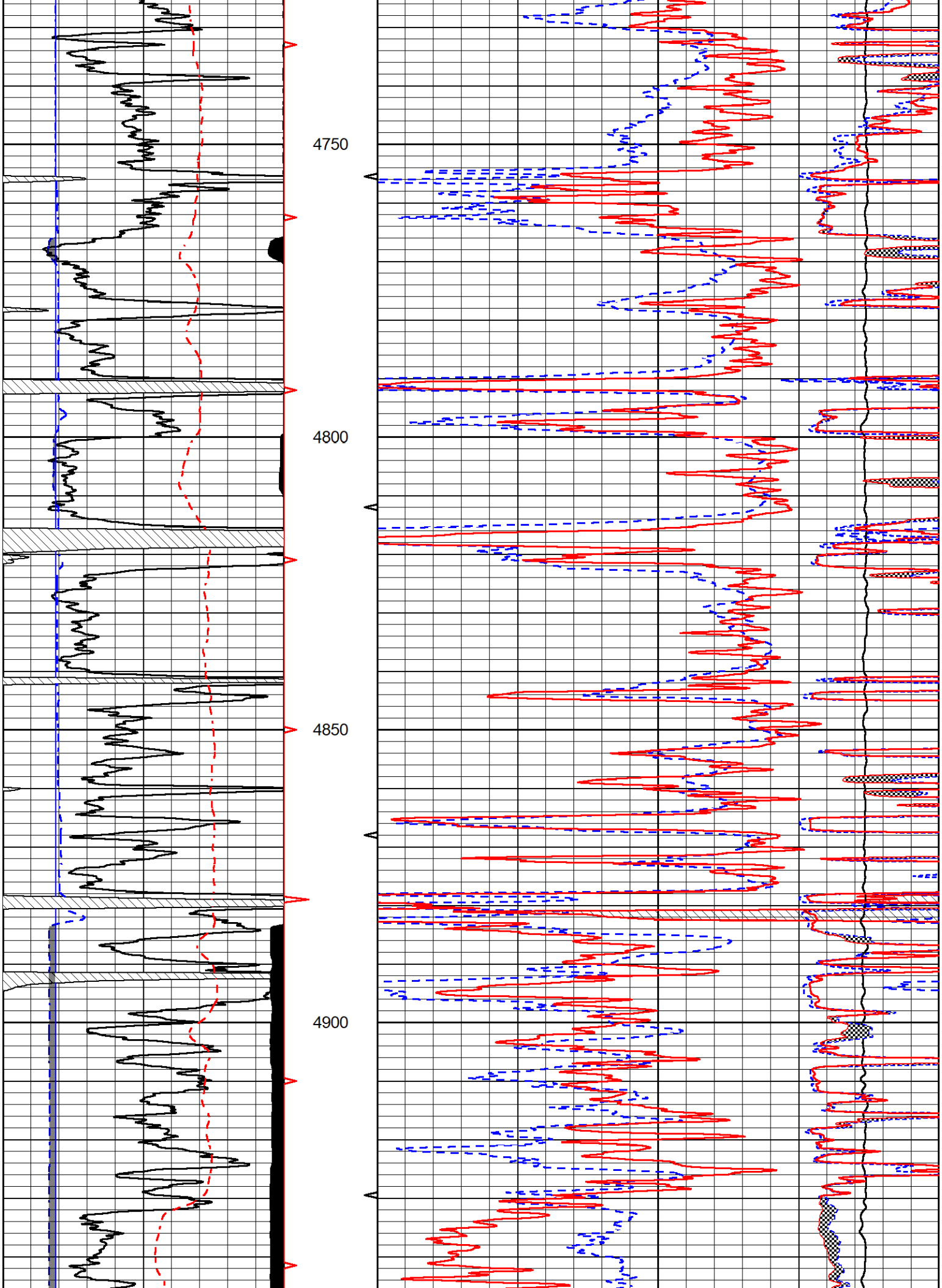


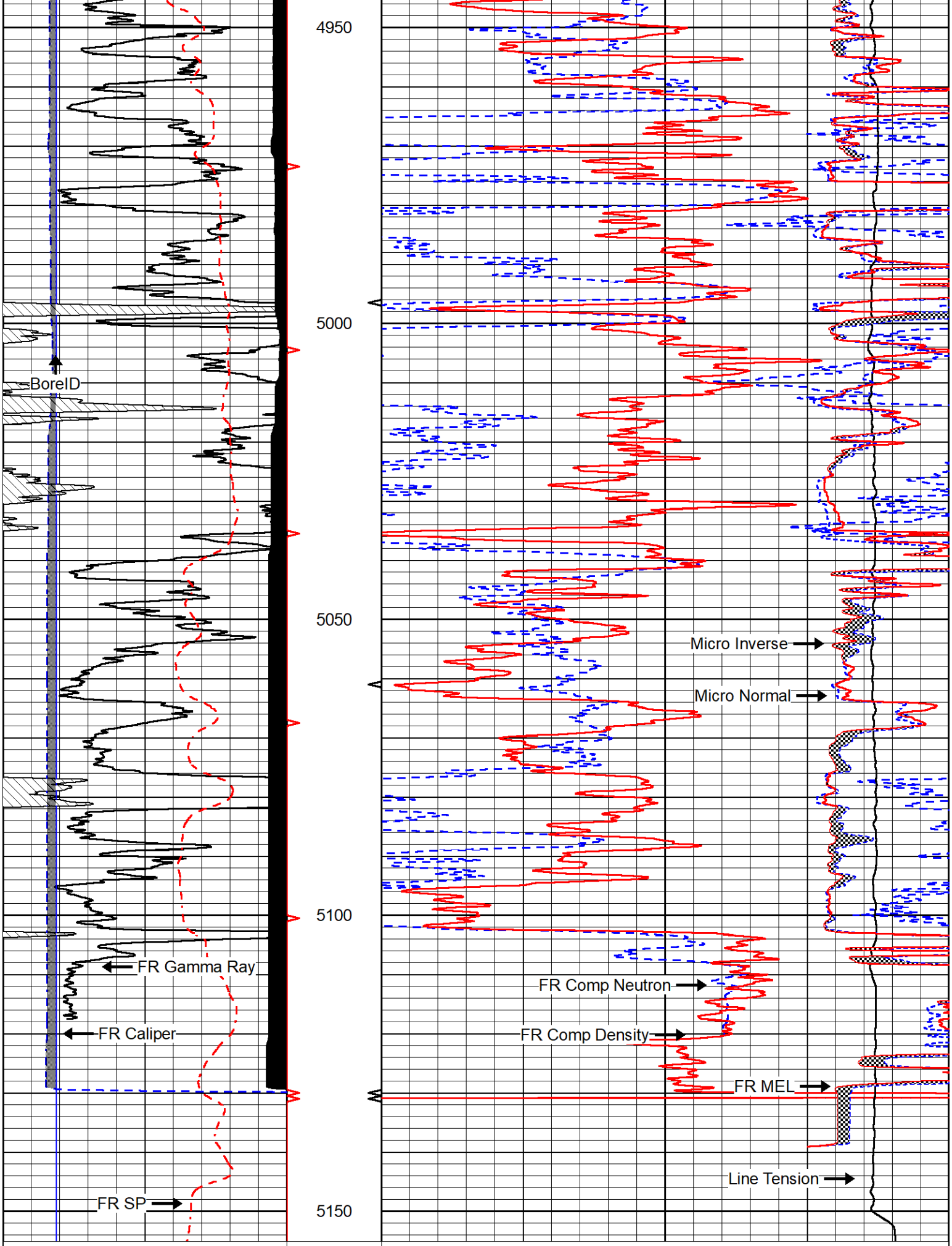

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BoreID
FR Gamma Ray
FR Caliper
FR SP
Micro Inverse
Micro Normal
FR Comp Neutron
FR Comp Density
FR MEL
Line Tension
0
Gammy Ray (GAPI)
150
6
Caliper (in)
16
30
Compensated Neutron (pu)
-10
30
Compensated Density (pu)
-10

-200	SP (mV)	0
15000	Line Tension (lb)	0
	Micro Normal	
0	(Ohm-m)	20
	Micro Inverse	
0	(Ohm-m)	20

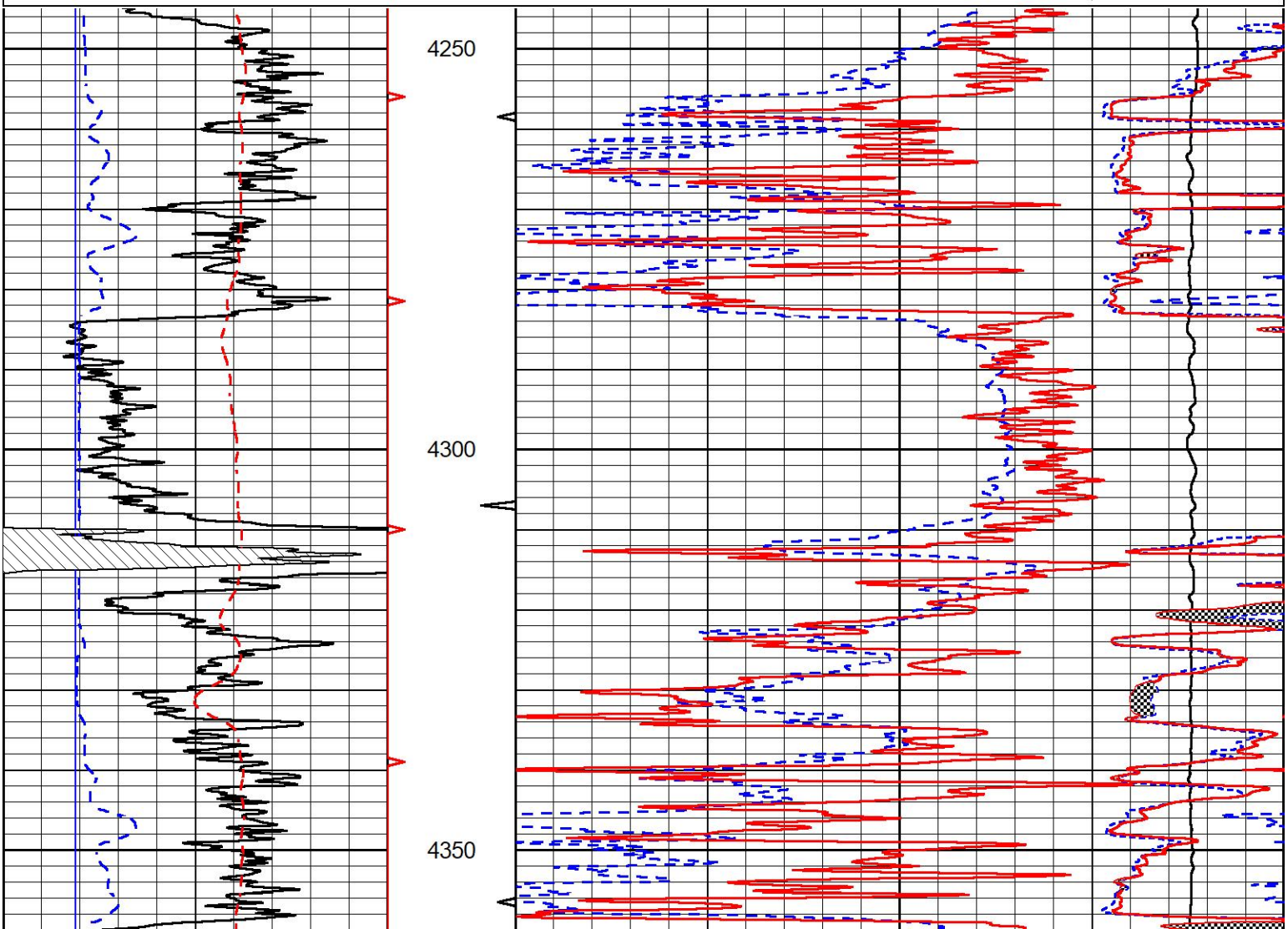
MIDWEST WIRELINE

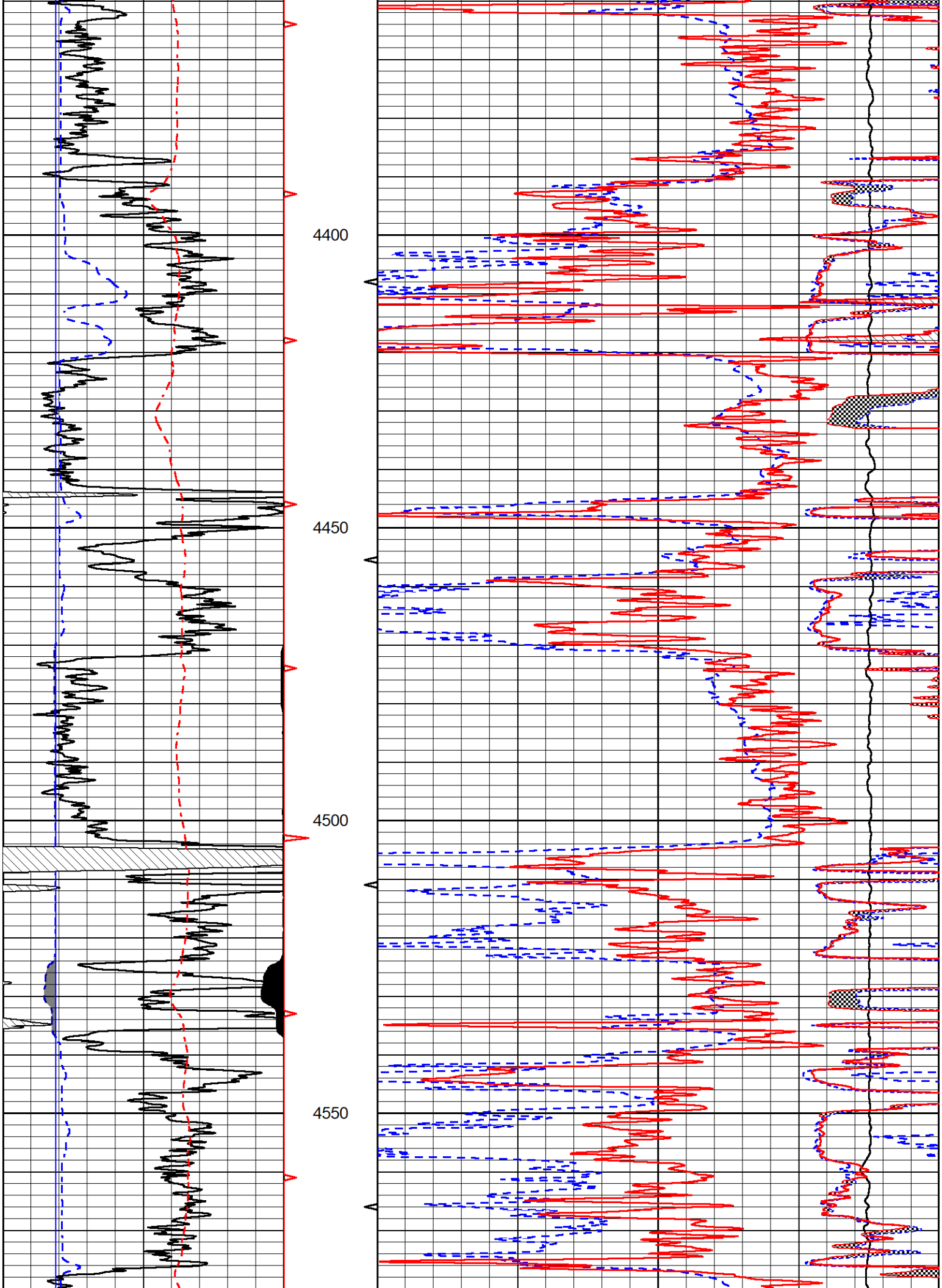
REPEAT SECTION

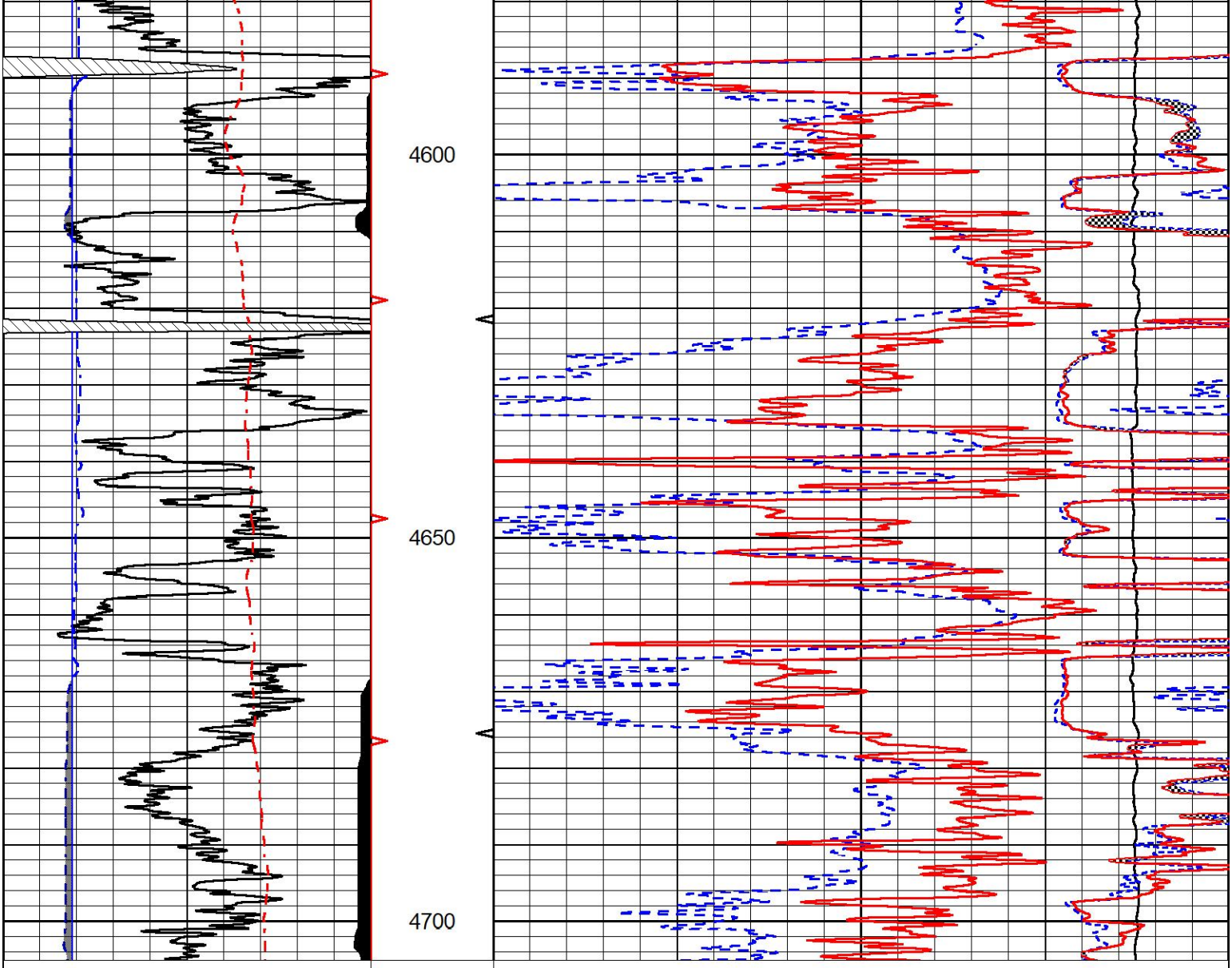
REPEAT PASS

Database File	murfin_cwa g 1-8.db
Dataset Pathname	stkml/pass2.1
Presentation Format	_CNDLS~2
Dataset Creation	Fri Nov 05 08:57:17 2021
Charted by	Depth in Feet scaled 1:240

0	Gammy Ray (GAPI)	150
6	Caliper (in)	16
-200	SP (mV)	0
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
15000	Line Tension (lb)	0
	Micro Normal	
0	(Ohm-m)	20
	Micro Inverse	
0	(Ohm-m)	20




4400
4450
4500
4550



MIDWEST WIRELINE

Company	Murfin Drilling Company, Inc.
Well	CWA 'G' #1-8
Field	
County	Cheyenne
State	Kansas