MIDWEST WIRELINE

MICRORESISTIVITY 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
CNL/CDL
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

Date	11/5/2021		
Run Number	One		
Depth Driller	5150		
Depth Logger	5150		
Bottom Logged Interval	5149		
Top Log Interval	3750		
Casing Driller	8.625 @ 403		
Casing Logger	401		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	1400		
Density / Viscosity	9.2 / 73		
pH / Fluid Loss	11.0 / 6.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.75 @ 55		
Rmf @ Meas. Temp	0.56 @ 55		
Rmc @ Meas. Temp	1.01 @ 55		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.32 @ 128		
Operating Rig Time	6 Hours		
Max Rec. Temp. F	128		
Equipment Number	P-24		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	Robert Hendrix		

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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

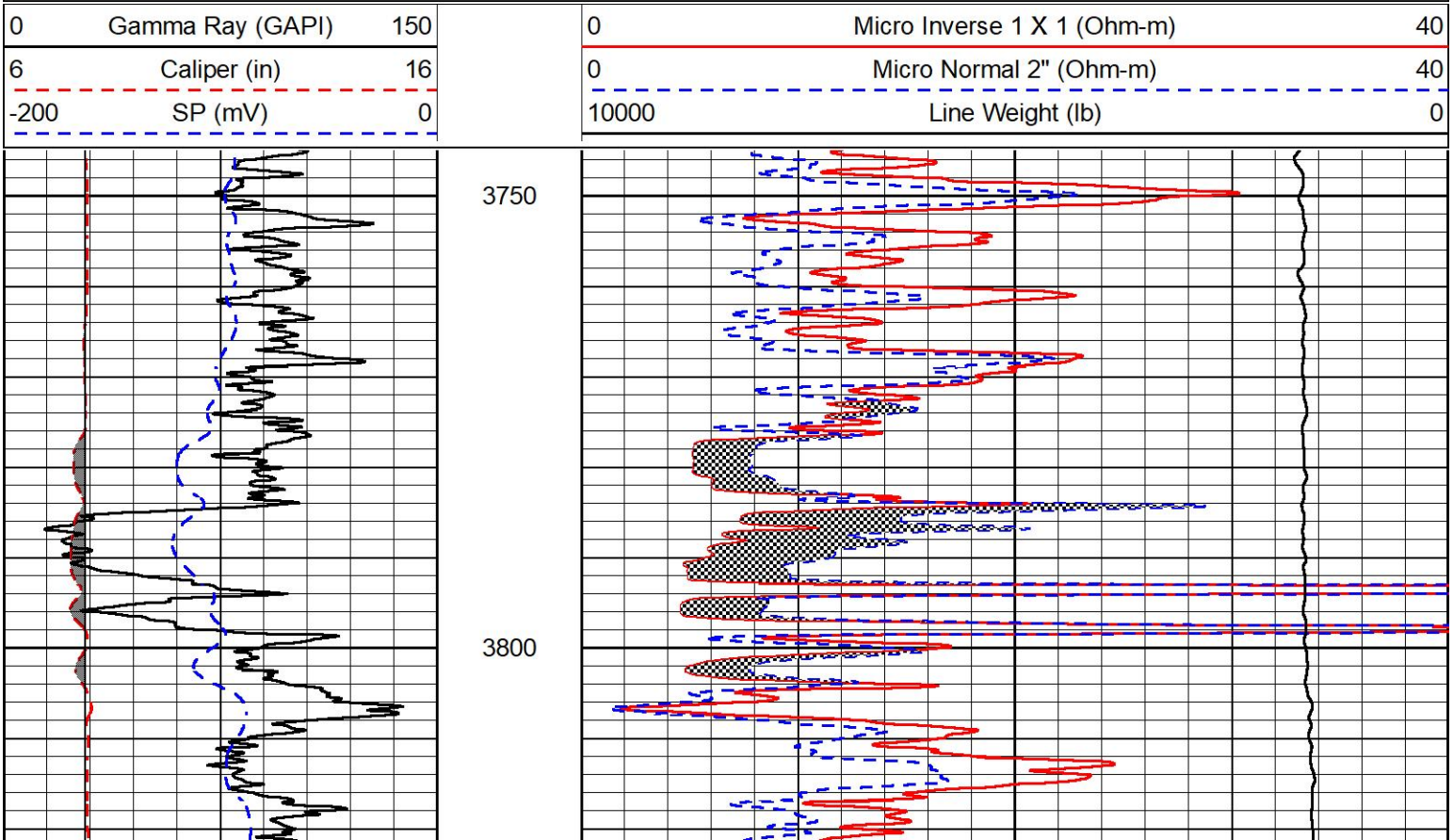
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM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

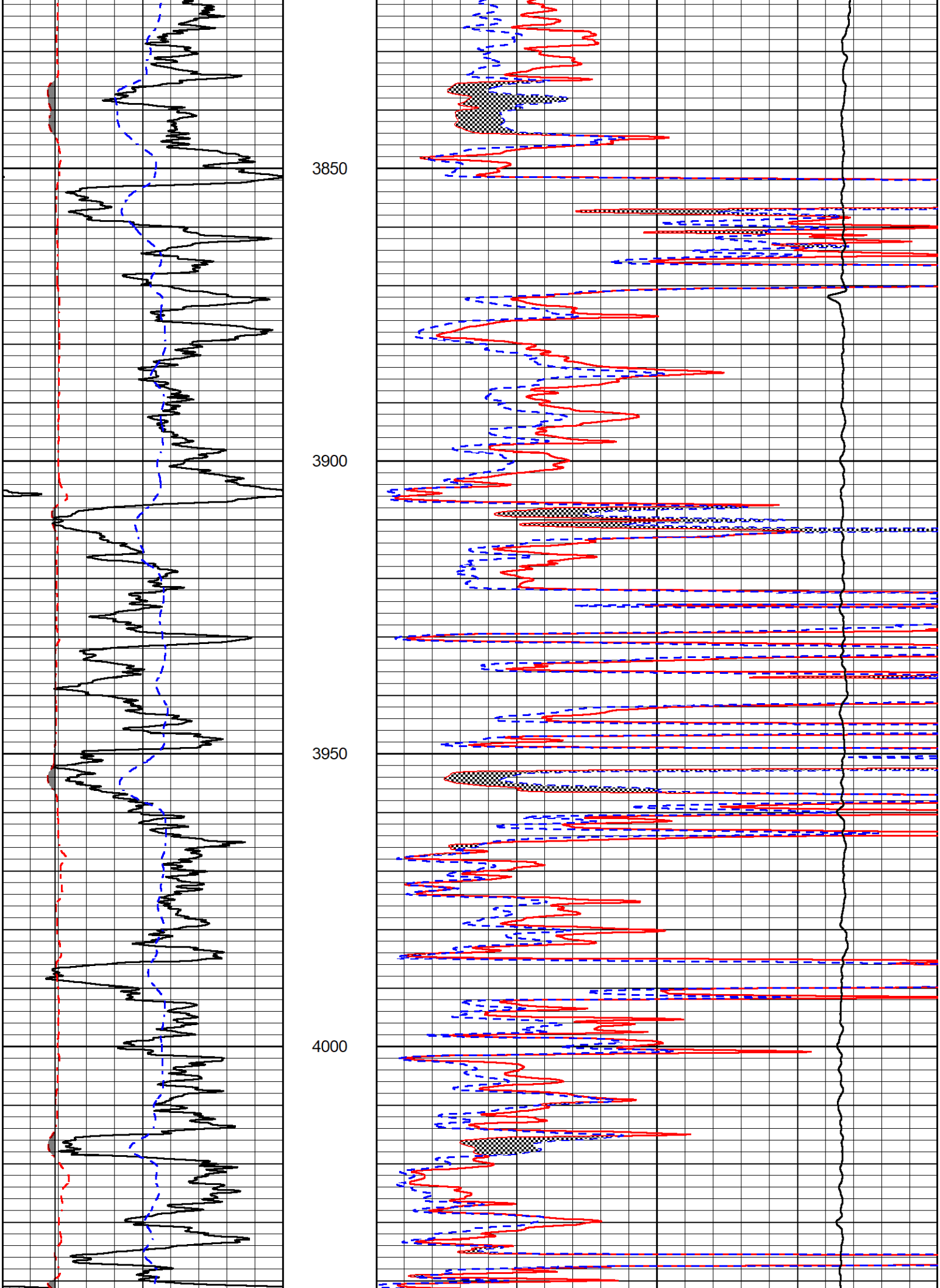
MIDWEST WIRELINE

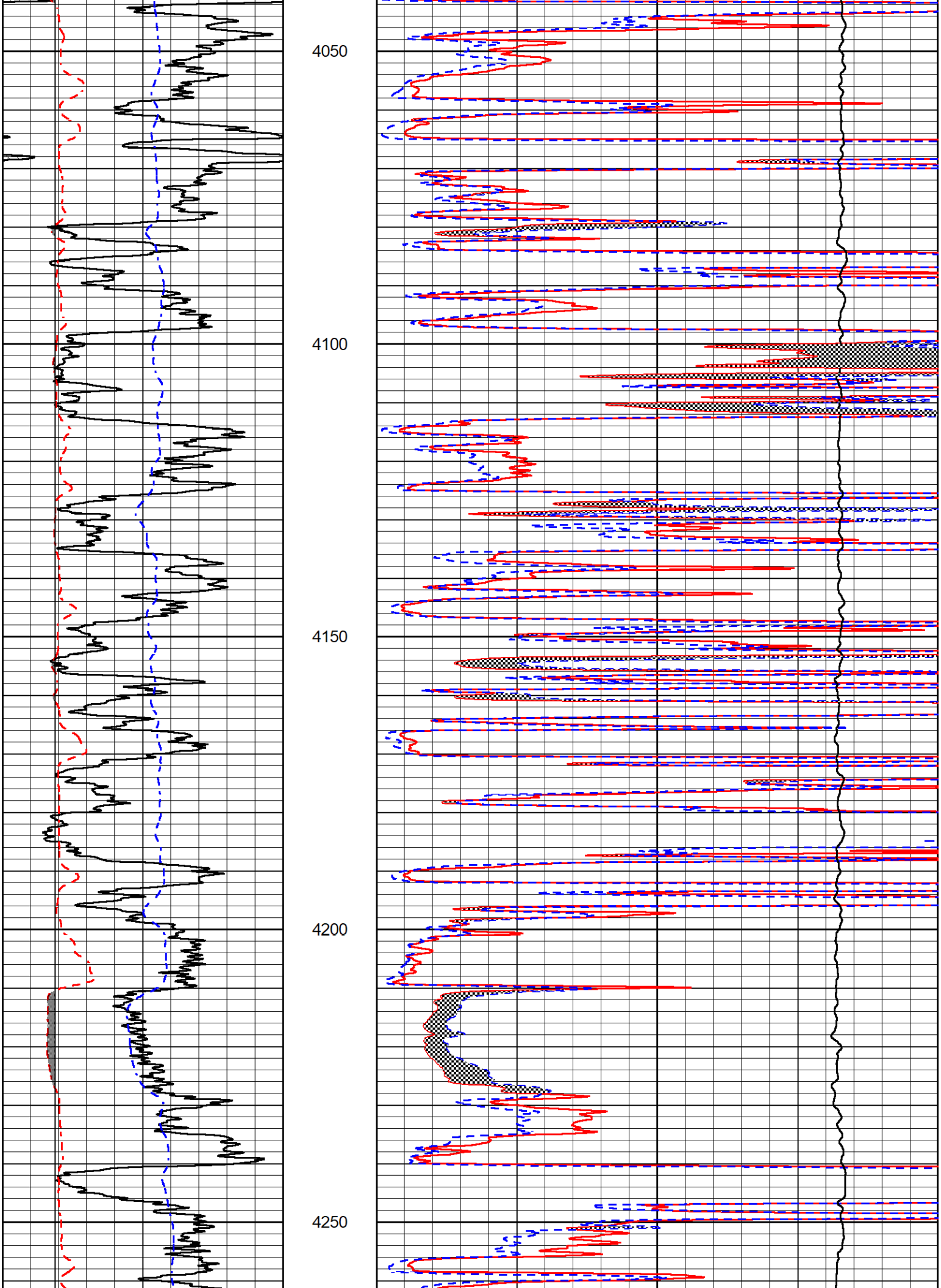
DETAIL SECTION

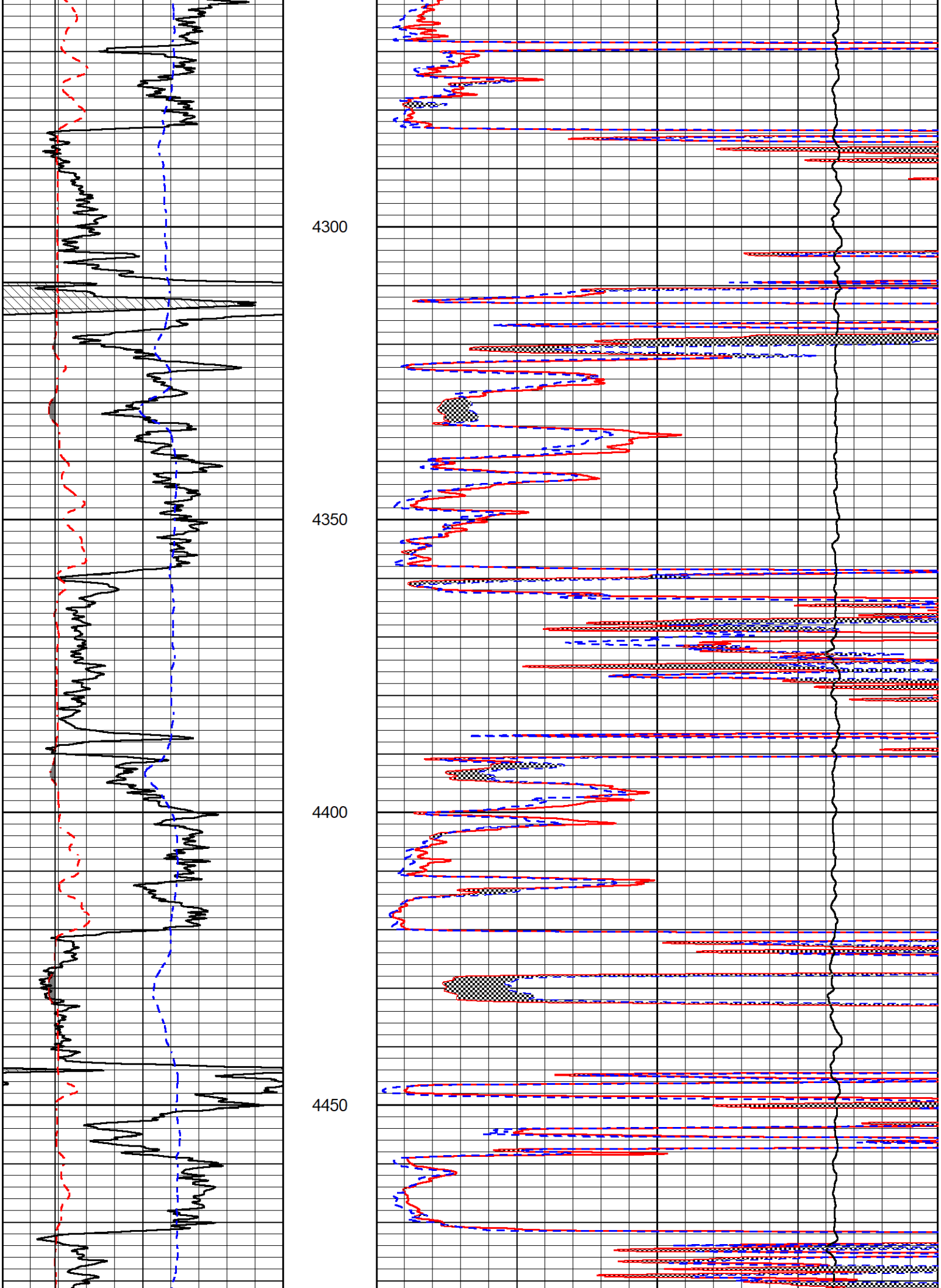
MAIN PASS

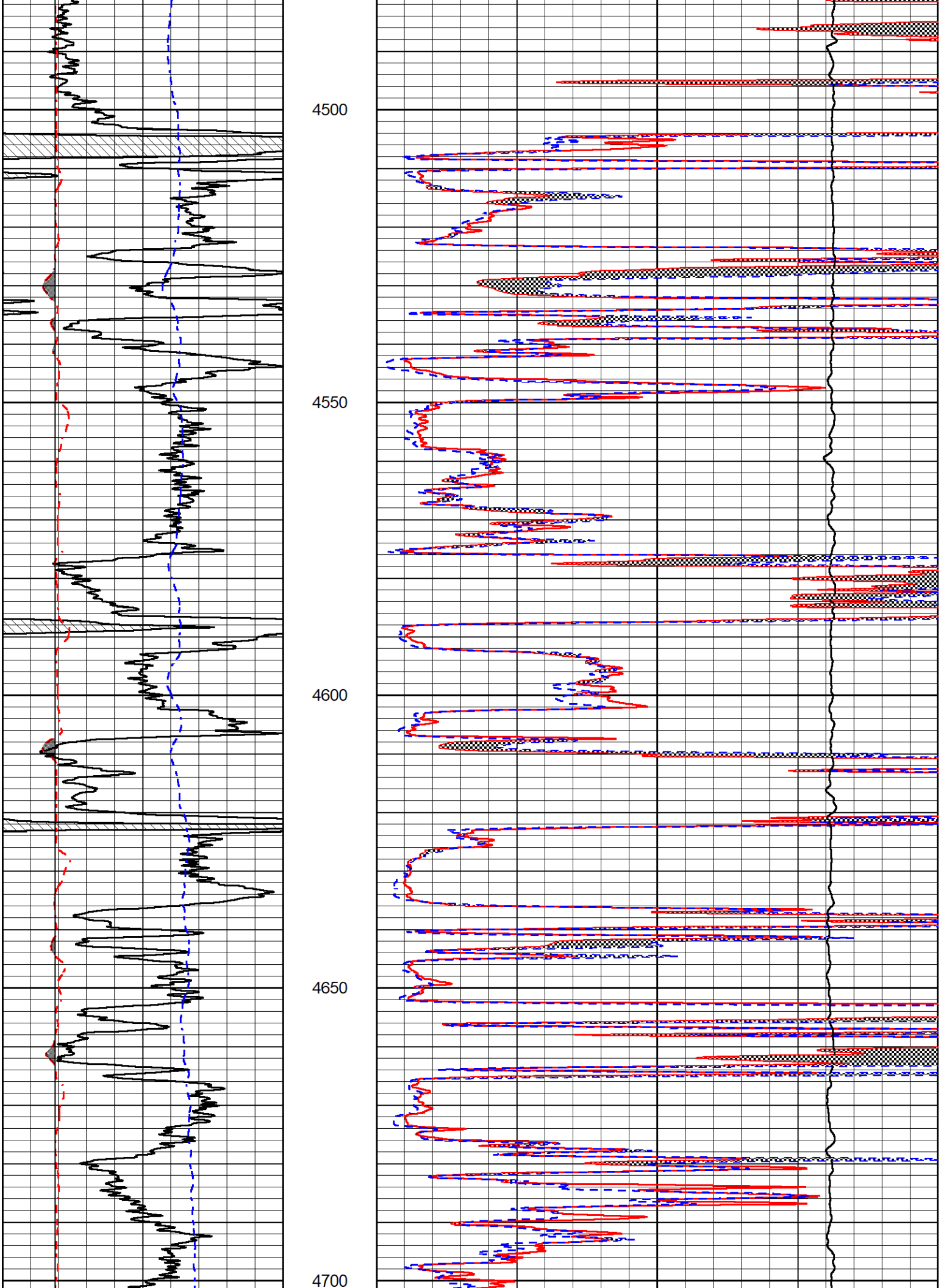
Database File	murfin_cwa g 1-8.db
Dataset Pathname	stkml/pass4.1
Presentation Format	_micro
Dataset Creation	Fri Nov 05 08:59:51 2021
Charted by	Depth in Feet scaled 1:240

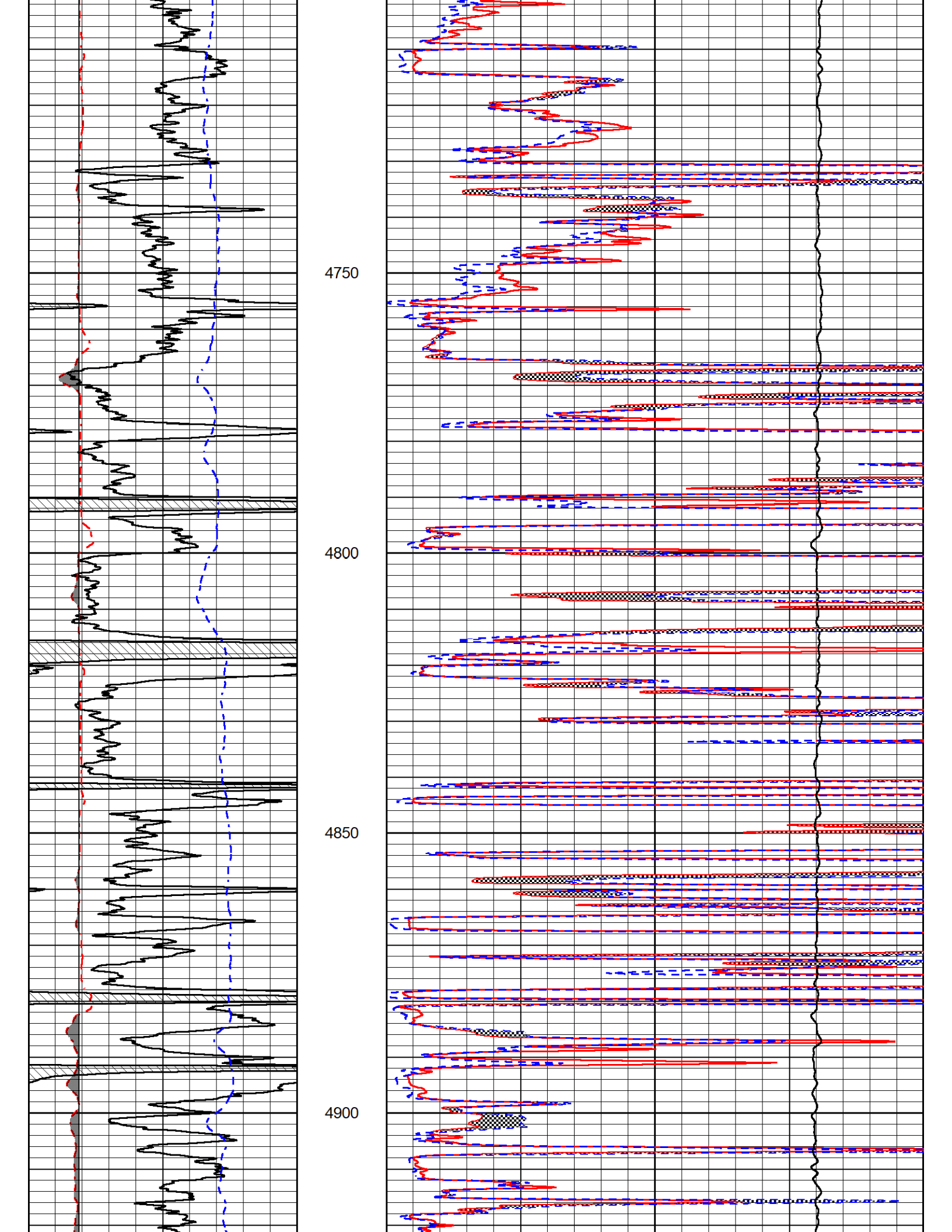


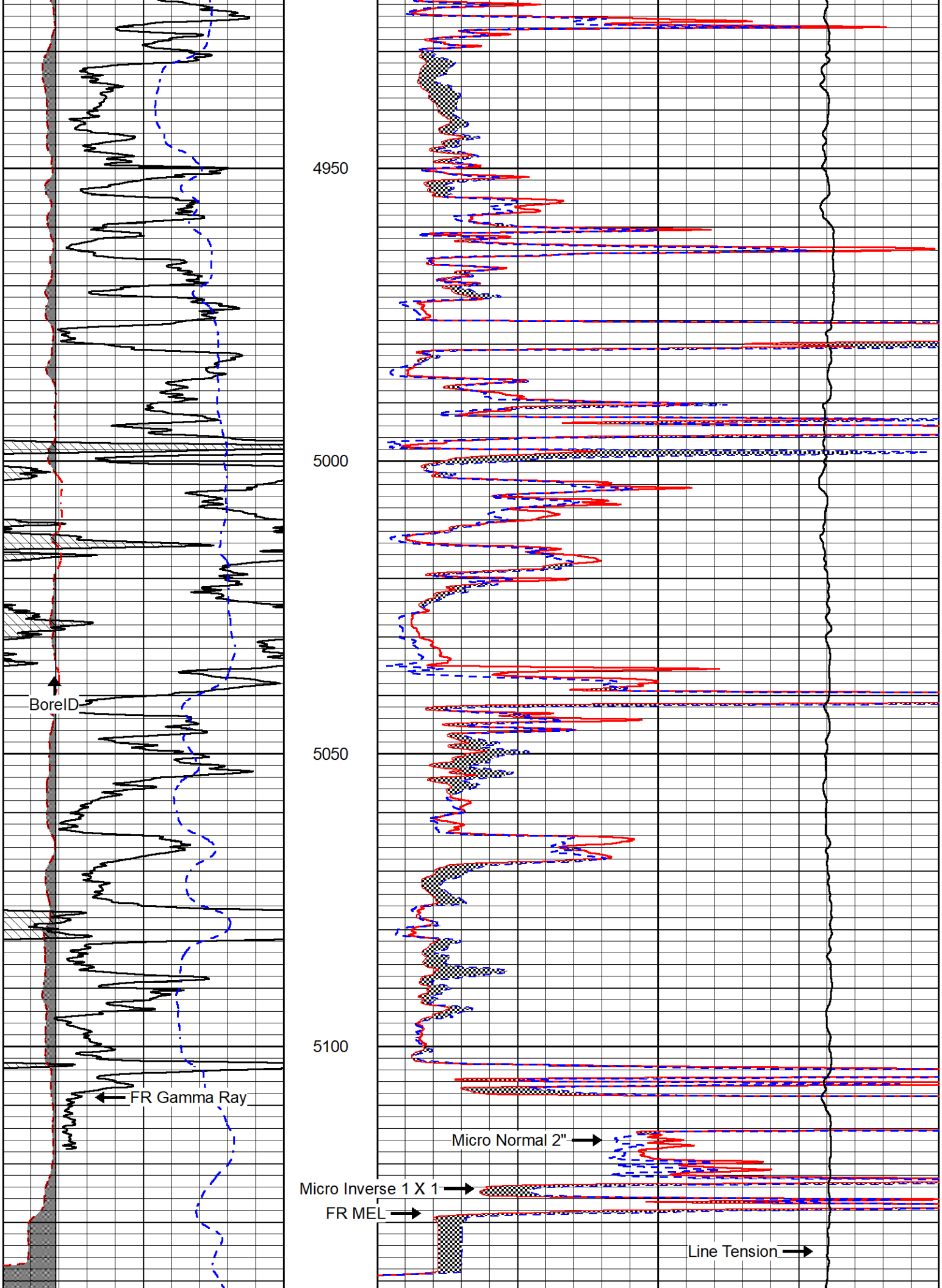

3850
3900
3950
4000

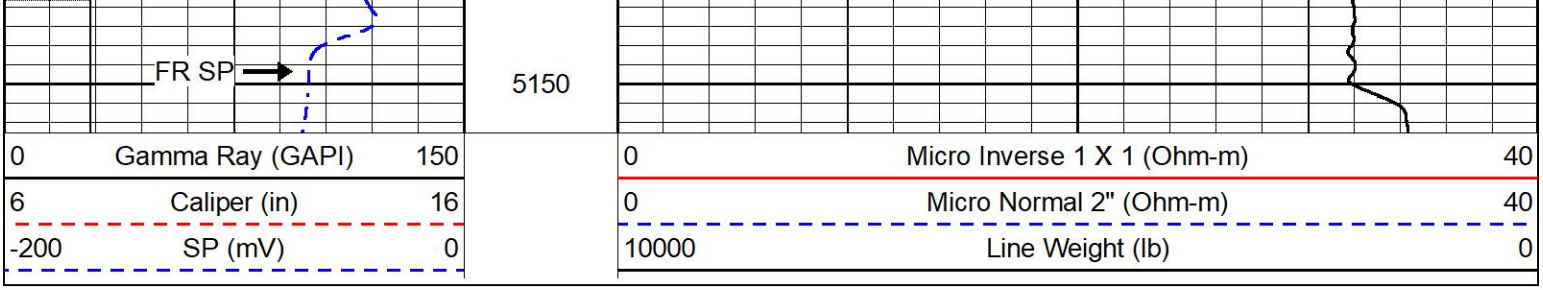

4050
4100
4150
4200
4250


4300
4350
4400
4450


4500
4550
4600
4650
4700


4750
4800
4850
4900


4950
5000
5050
5100
BoreID
FR Gamma Ray
Micro Normal 2"
Micro Inverse 1 X 1
FR MEL
Line Tension

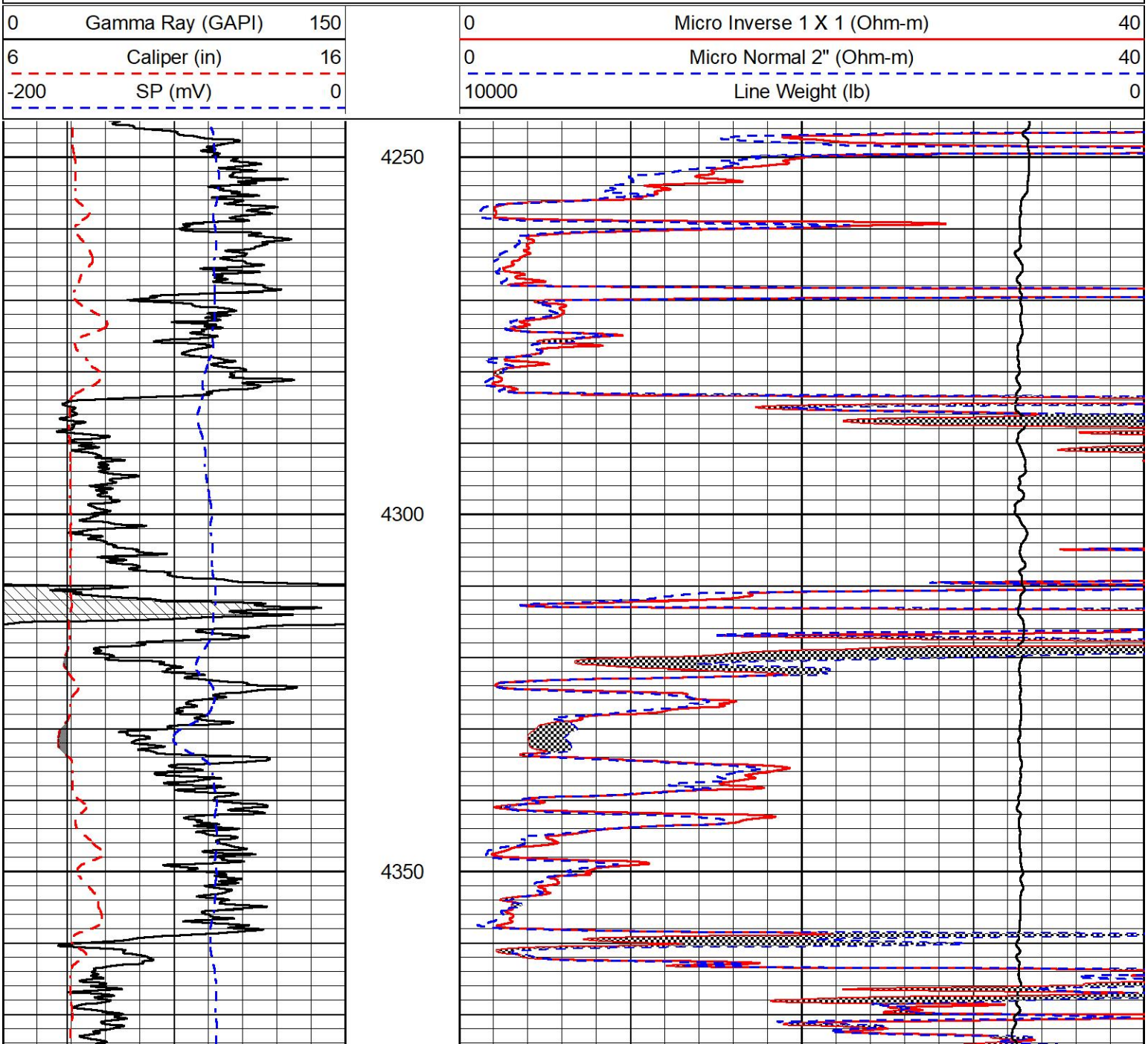


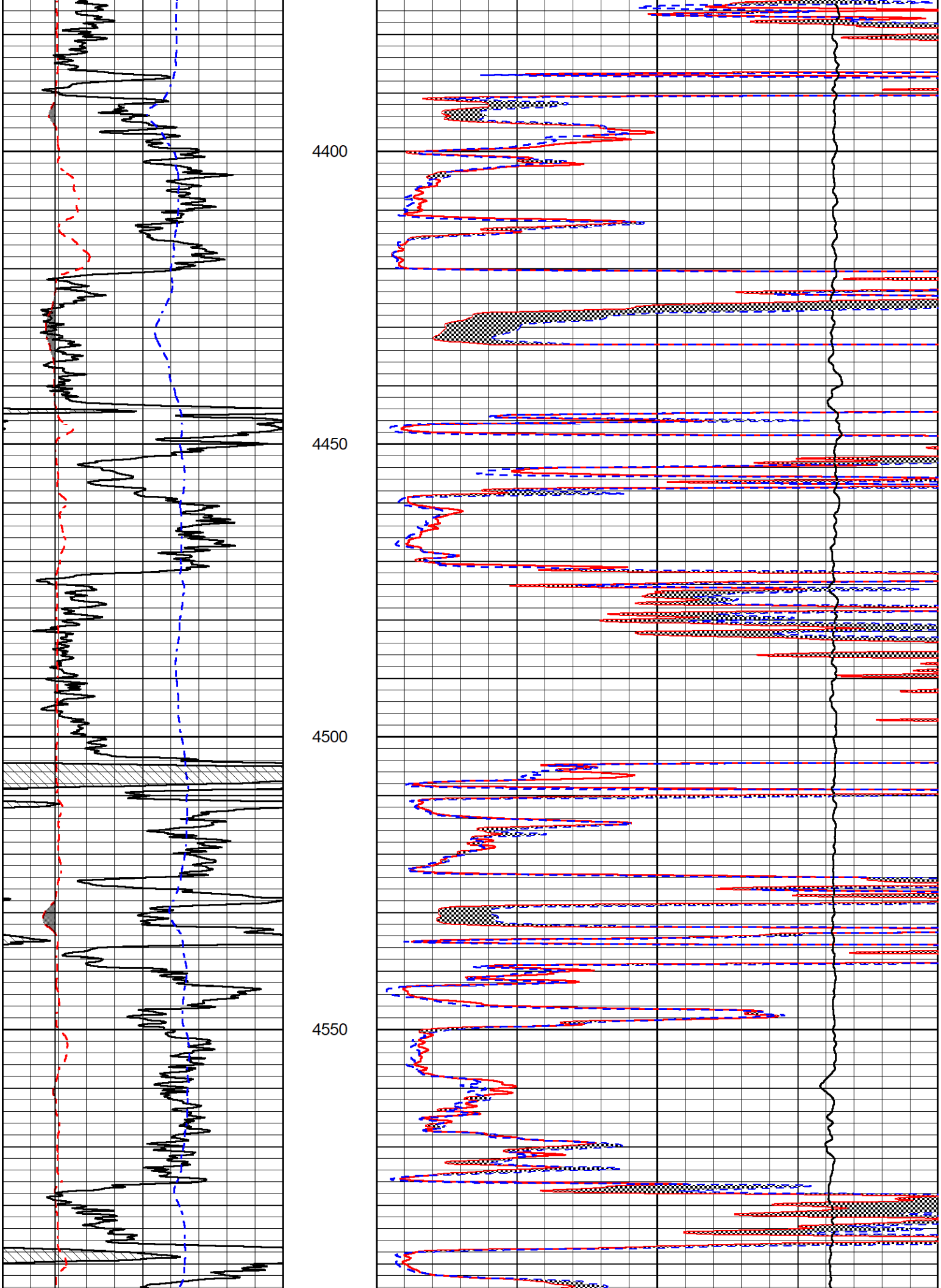
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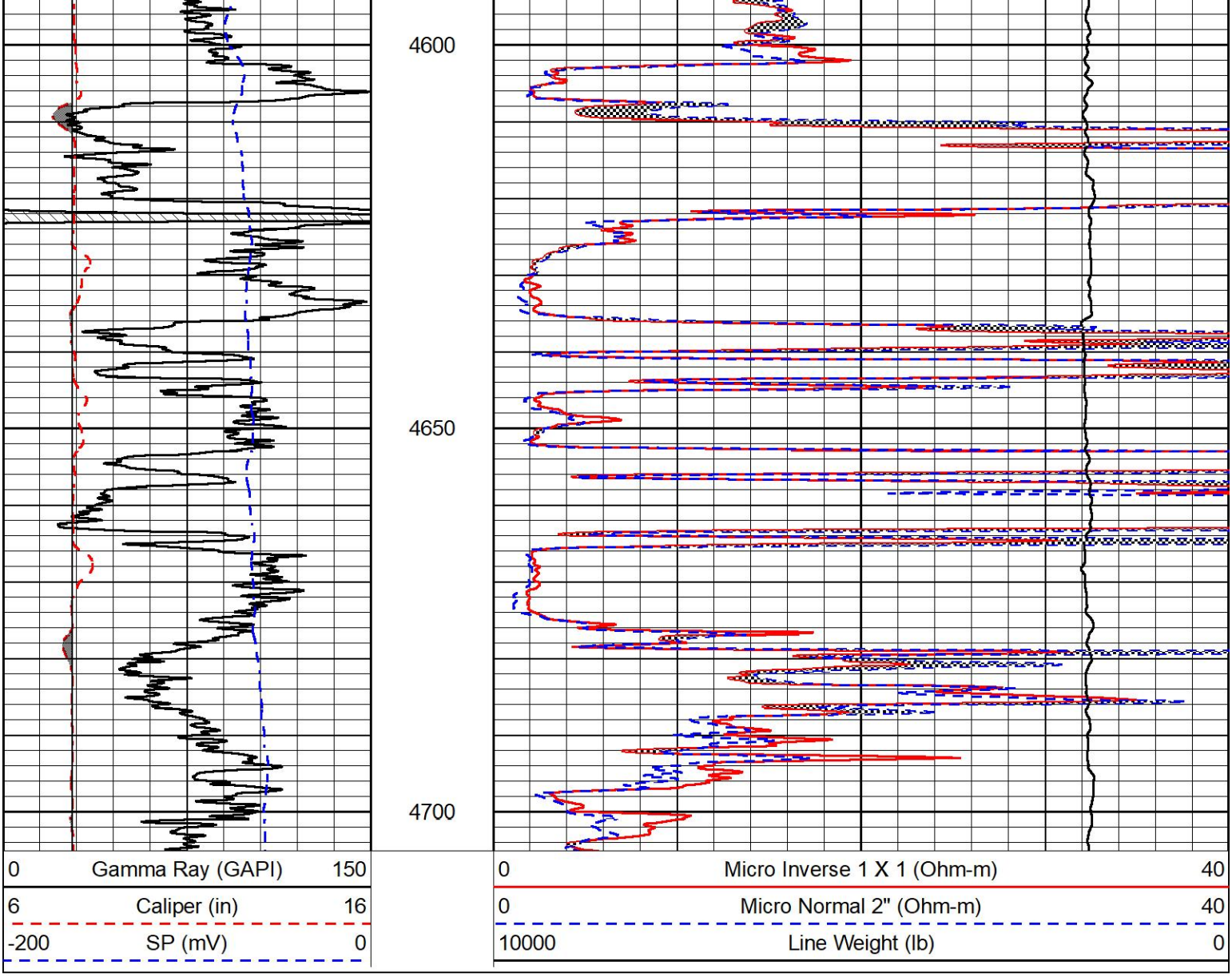
REPEAT SECTION

REPEAT PASS

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




4400
4450
4500
4550



MIDWEST WIRELINE

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