



MIDWEST WIRELINE

DUAL COMPENSATED POROSITY / MICRO LOG

Company Murfin Drilling Company, Inc.
Well Jean A #2-7
Field Wildcat
County Cheyenne
State Kansas

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Field Wildcat
County Cheyenne State Kansas

Location: API #: 15-023-21563-00-00
600 FSL & 2100 FEL
SEC 7 TWP 1S RGE 37W
Permanent Datum Ground Level Elevation 3101
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing
Other Services
DIL/BHCS
K.B. 3106
D.F.
G.L. 3101

Date 1/9/2022

Run Number One
Type Log CNL / CDL / ML
Depth Driller 4635
Depth Logger 4629
Bottom Logged Interval 4628
Top Logged Interval 3500
Type Fluid In Hole Chemical
Salinity, PPM CL 1200
Density 8.6
Level Full
Max. Rec. Temp. F 122
Operating Rig Time 6 Hours
Equipment -- Location P-24 Hays
Recorded By T. Martin
Witnessed By Wes Hansen

Borehole Record

Casing Record

Run No.	Bit	From	To	Size	Wgt.	From	To
One	12.25	00	324	8.625	23	00	324
Two	7.875	324	TD				

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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.

Bird City, N to DD Rd, 2 E to T,
1 S, W into after TB

Log Measured From: Kelly Bushing 5 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: Wes Hansen
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33			GR-M&W (101)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48			CNT-M&W (207-MW)	5.00	3.50	100.00
LSD DCAL SSD	28.18			CDL-M&W (305-05)	8.50	4.00	250.00
	28.17			ML-PSIML (402)	7.58	4.00	65.00
	27.68						
MCAL MI MN	19.58						
	19.58						
	19.58						
RLL3F RLL3	15.50			DIL-M&W (501 HT)	18.25	3.50	220.00
	15.50						
CILD	8.33						
	8.33						
CILM	4.50						
SP	0.20						
	0.20						
Dataset: murfin_jean a #2-7.db: field/well/StkMI/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\murfin_jean a #2-7.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	122	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	500	50		4629

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



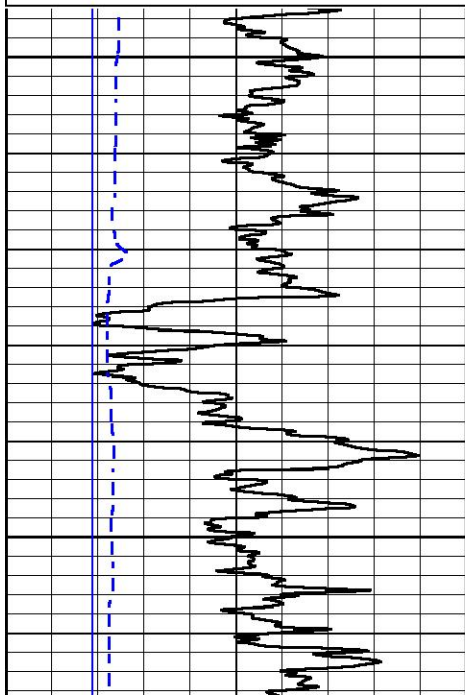
5" SCALE BULK DENSITY

MAIN PASS

Database File murfin_jean a #2-7.db
Dataset Pathname StkMI/pass3.3
Presentation Format _cdl
Dataset Creation Sun Jan 09 08:58:49 2022
Charted by Depth in Feet scaled 1:240

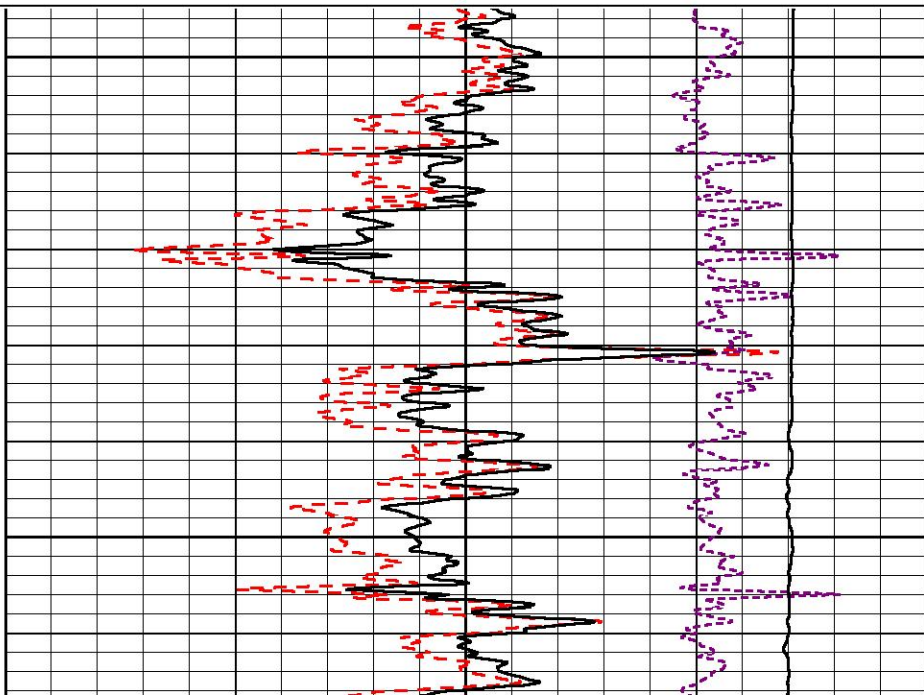
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16

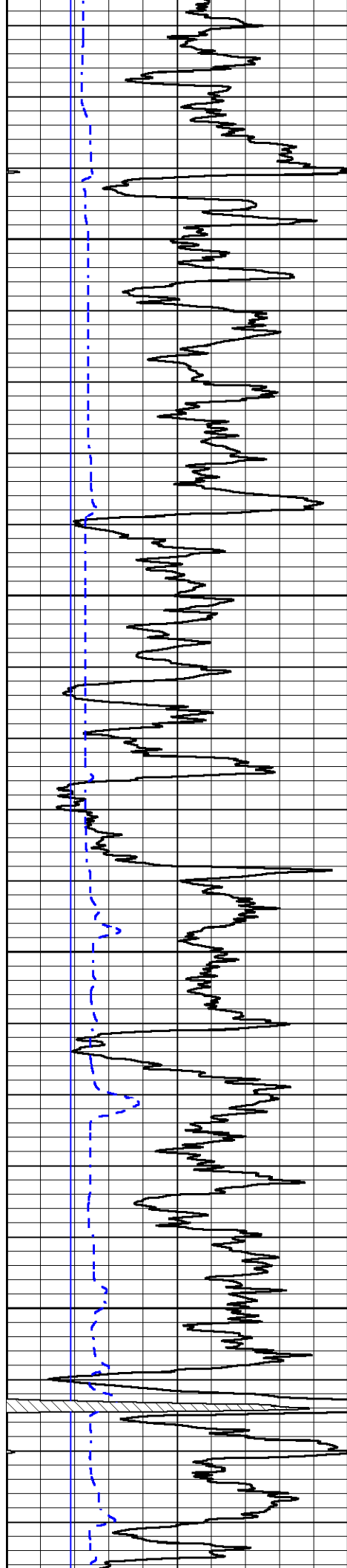
30	Compensated Density (pu)	-10
2	Bulk Density (g/cc)	3
10000	Line Tension (lb)	0
-0.25	Correction (g/cc)	0.25



3500

3550



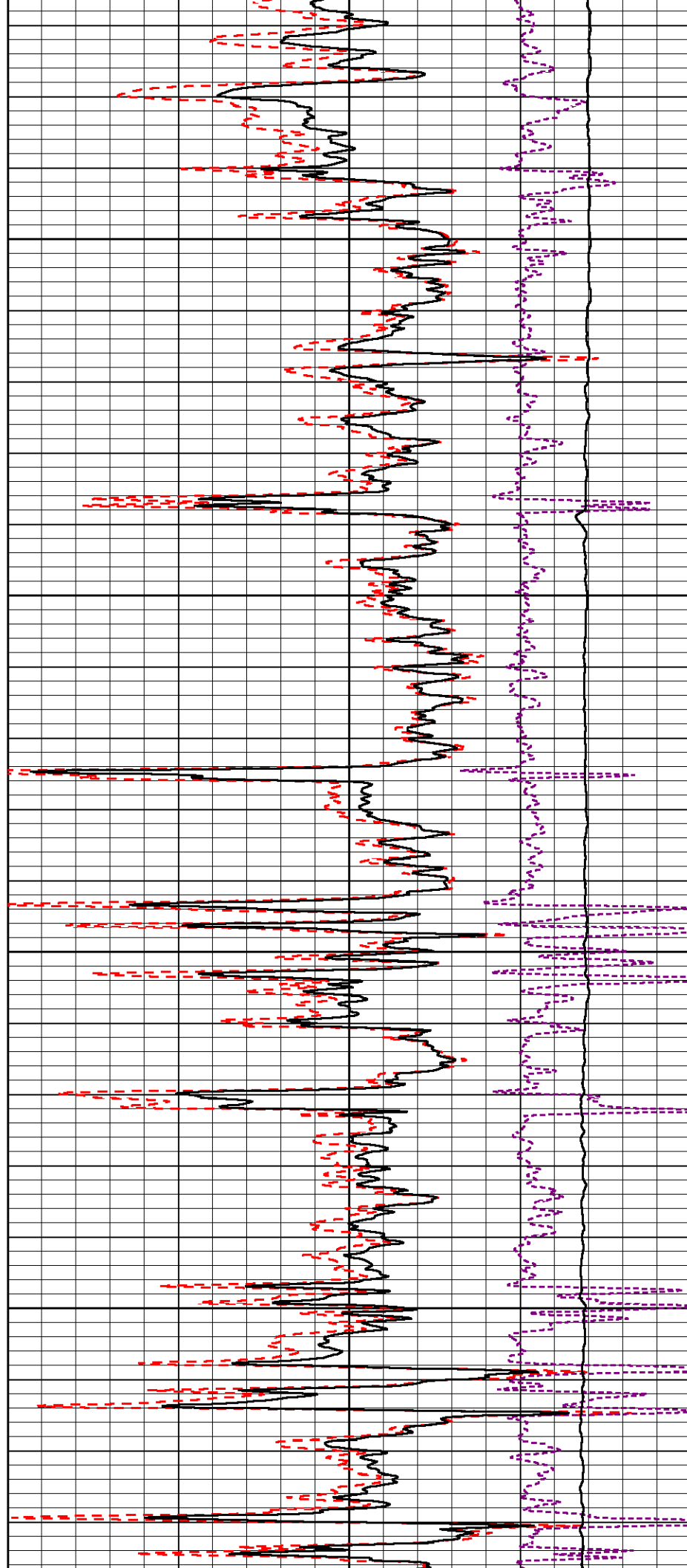


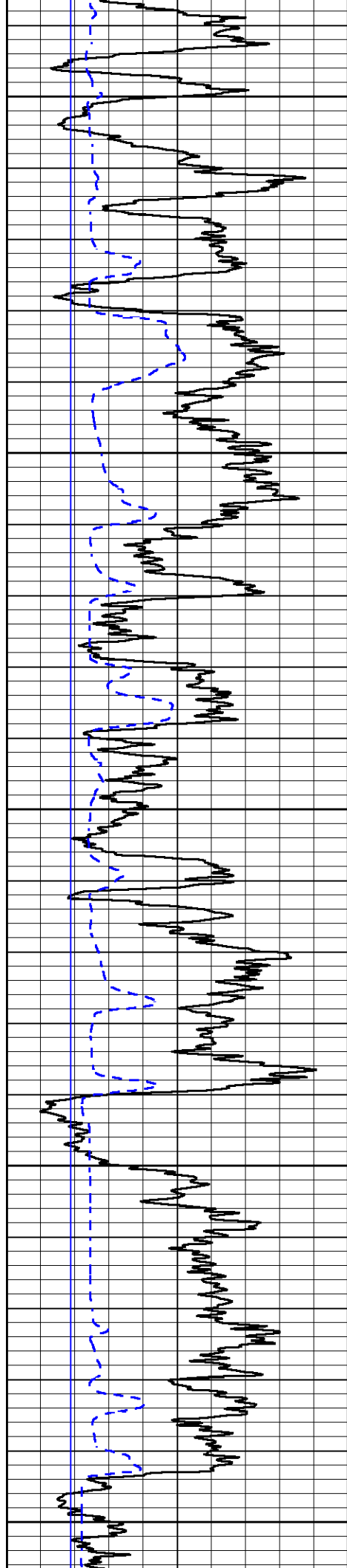
3600

3650

3700

3750





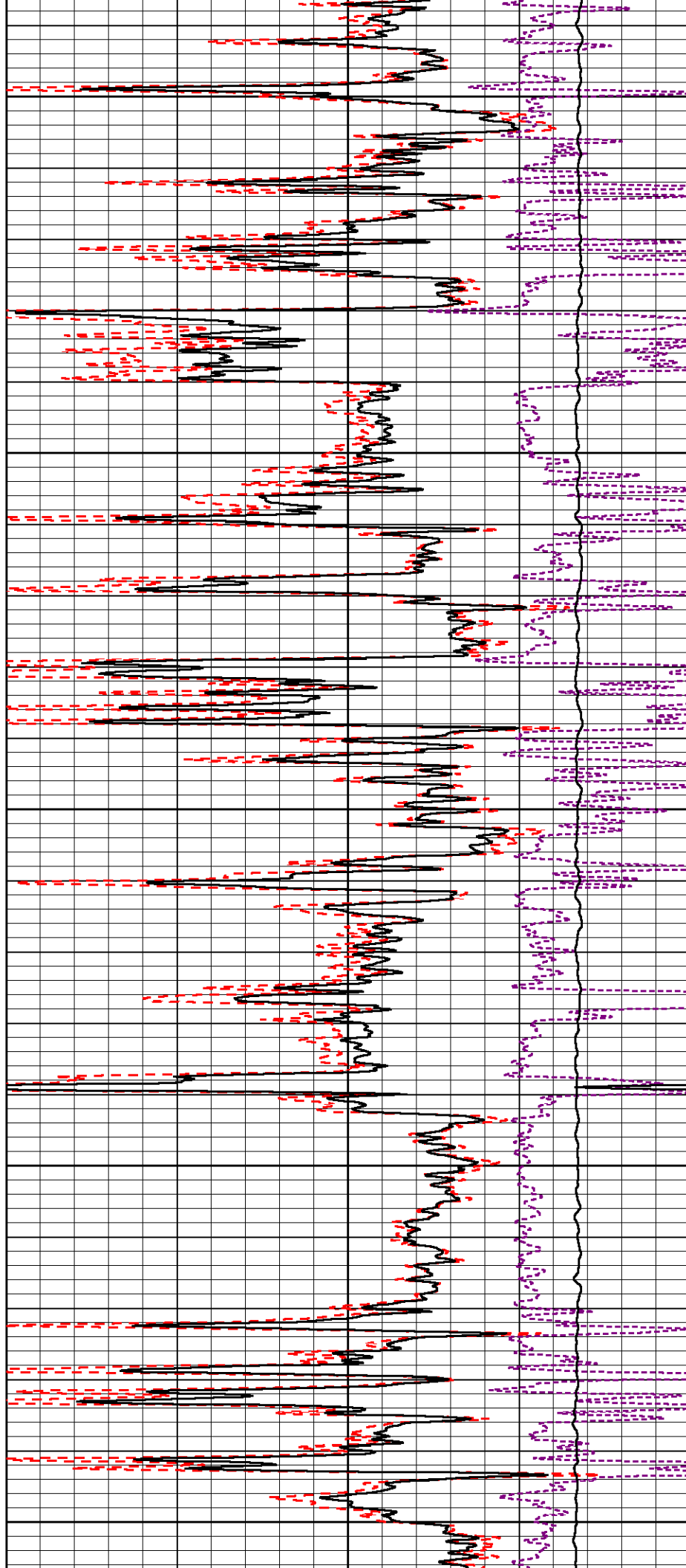
3800

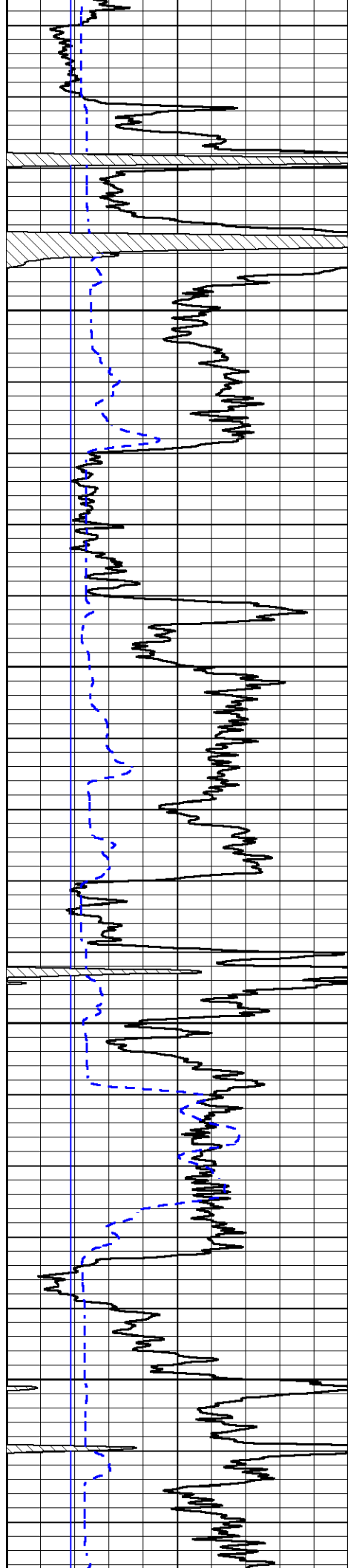
3850

3900

3950

4000



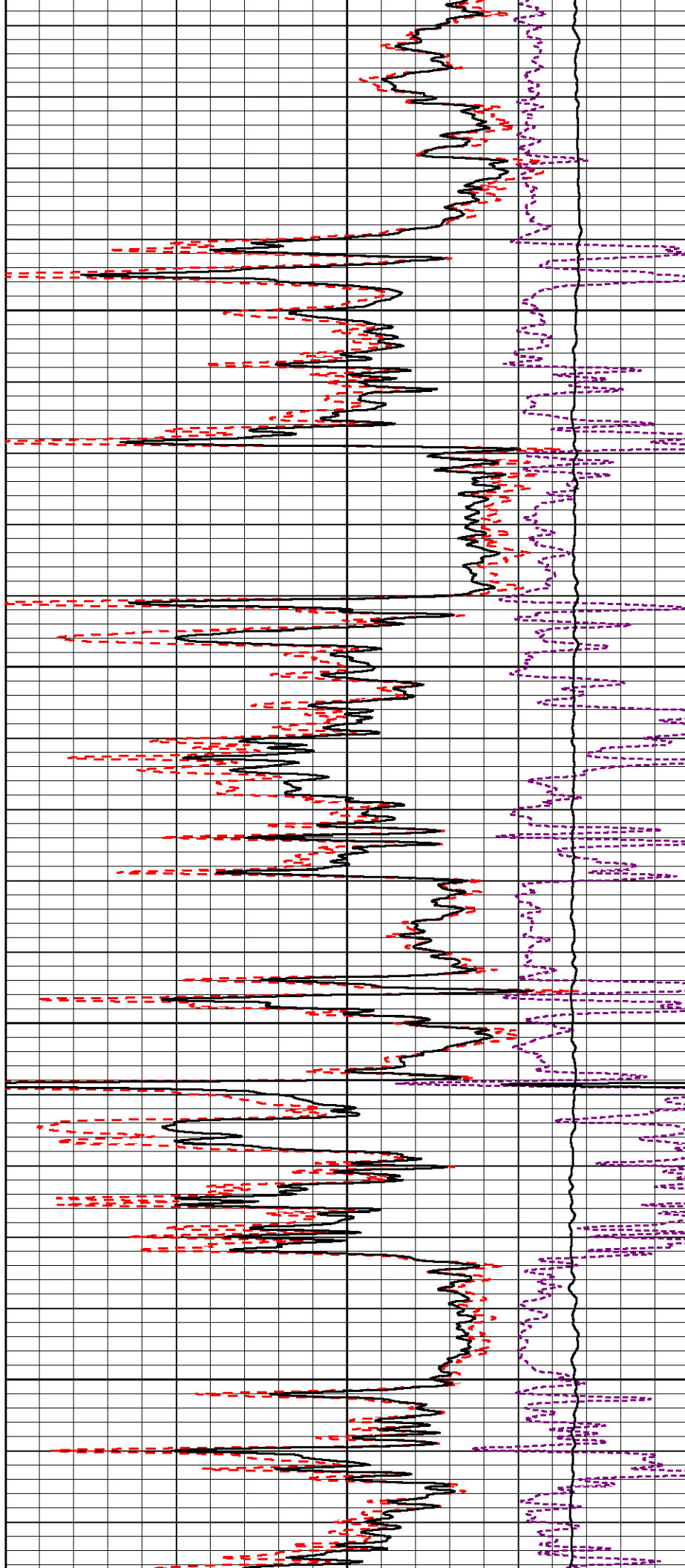


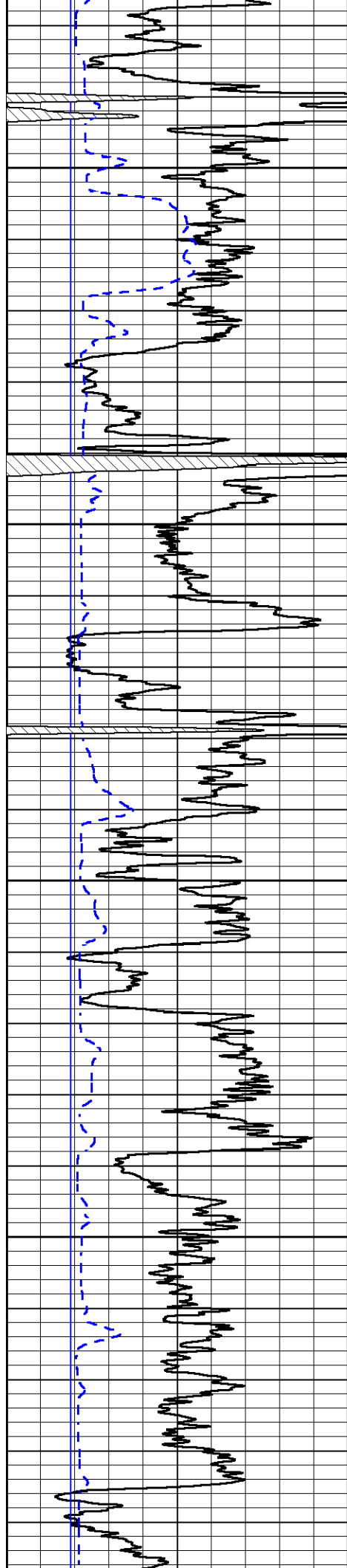
4050

4100

4150

4200



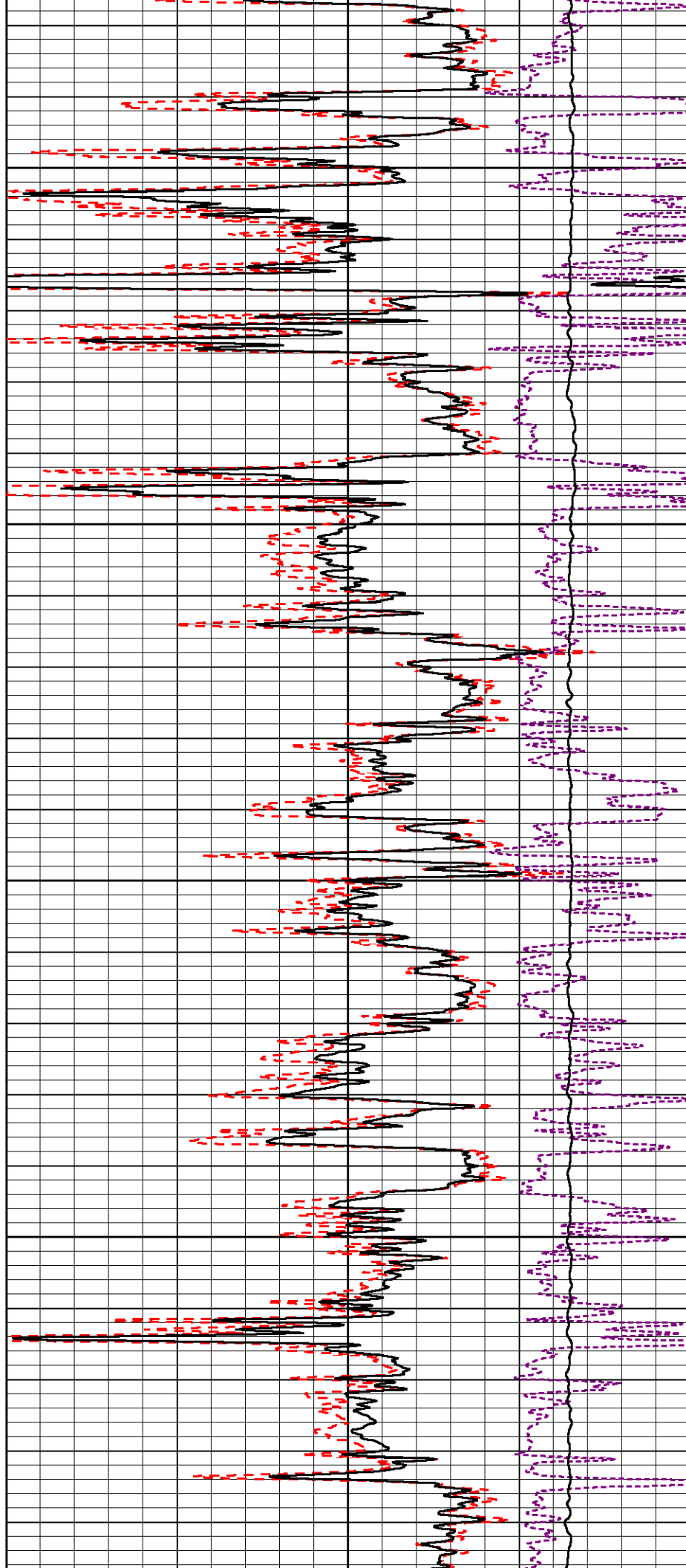


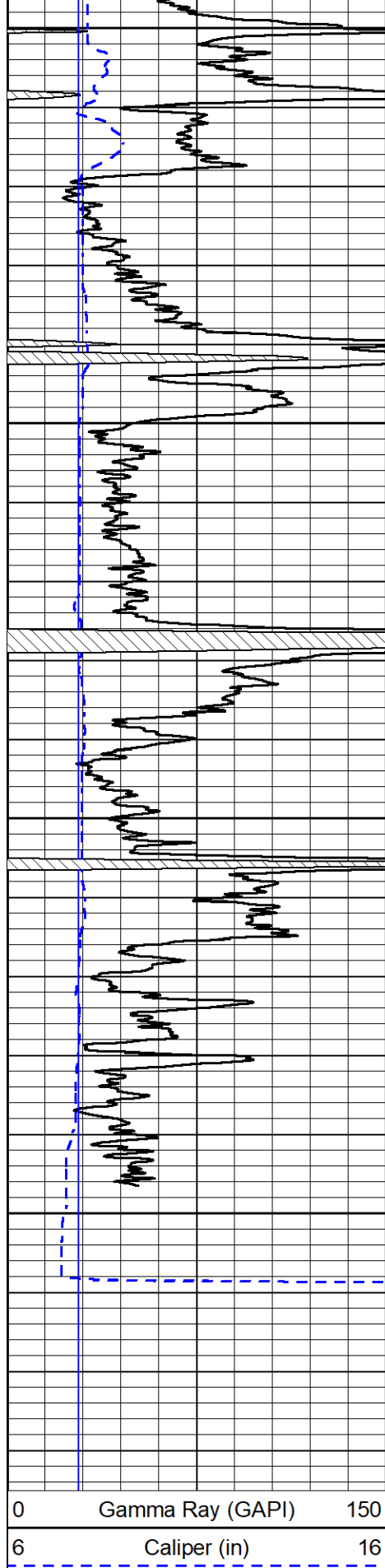
4250

4300

4350

4400



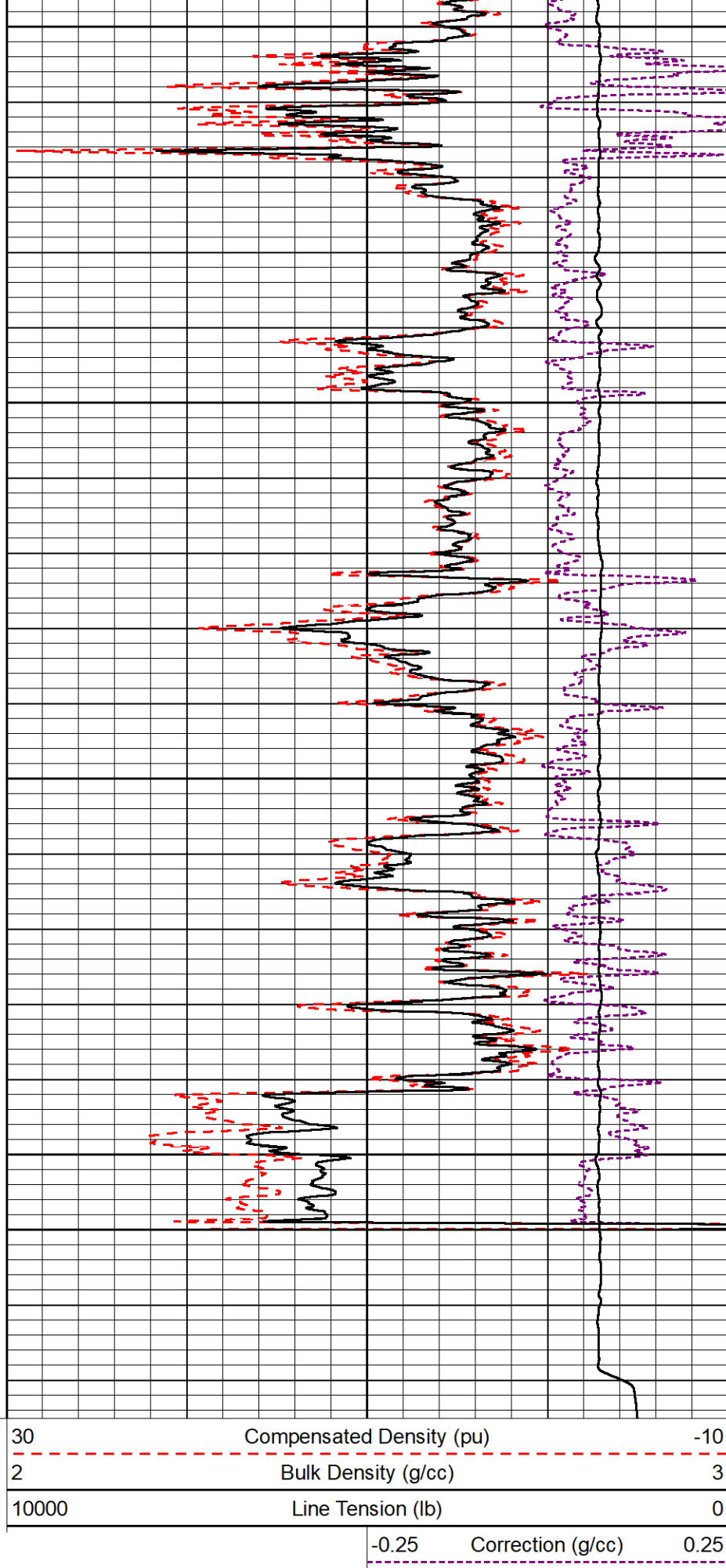


4450

4500

4550

4600





MIDWEST WIRELINE

DETAIL SECTION

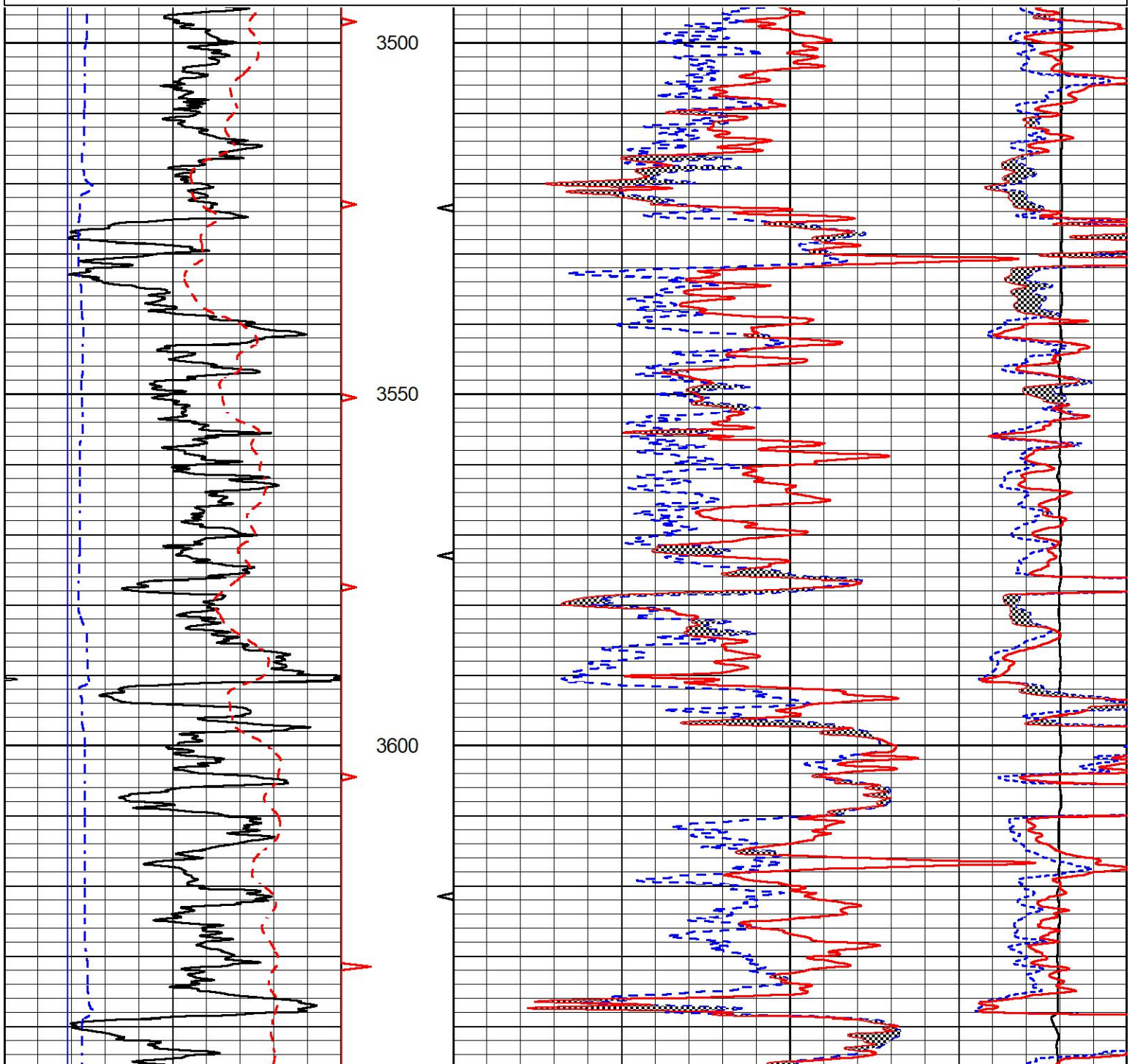
MAIN PASS

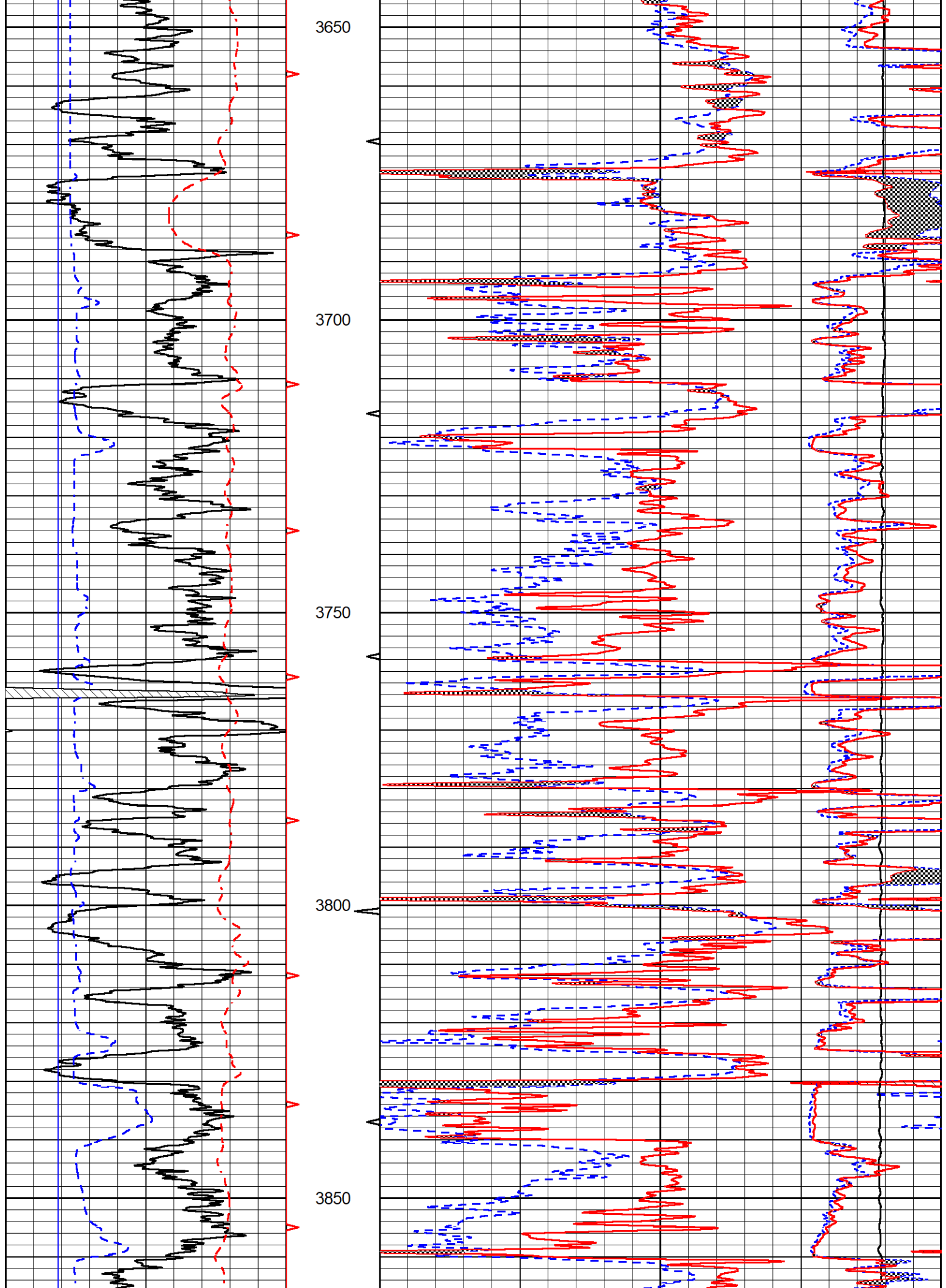
Database File murfin_jean a #2-7.db
Dataset Pathname StkMI/pass3.1
Presentation Format _cndlsprml
Dataset Creation Sun Jan 09 09:44:02 2022
Charted by Depth in Feet scaled 1:240

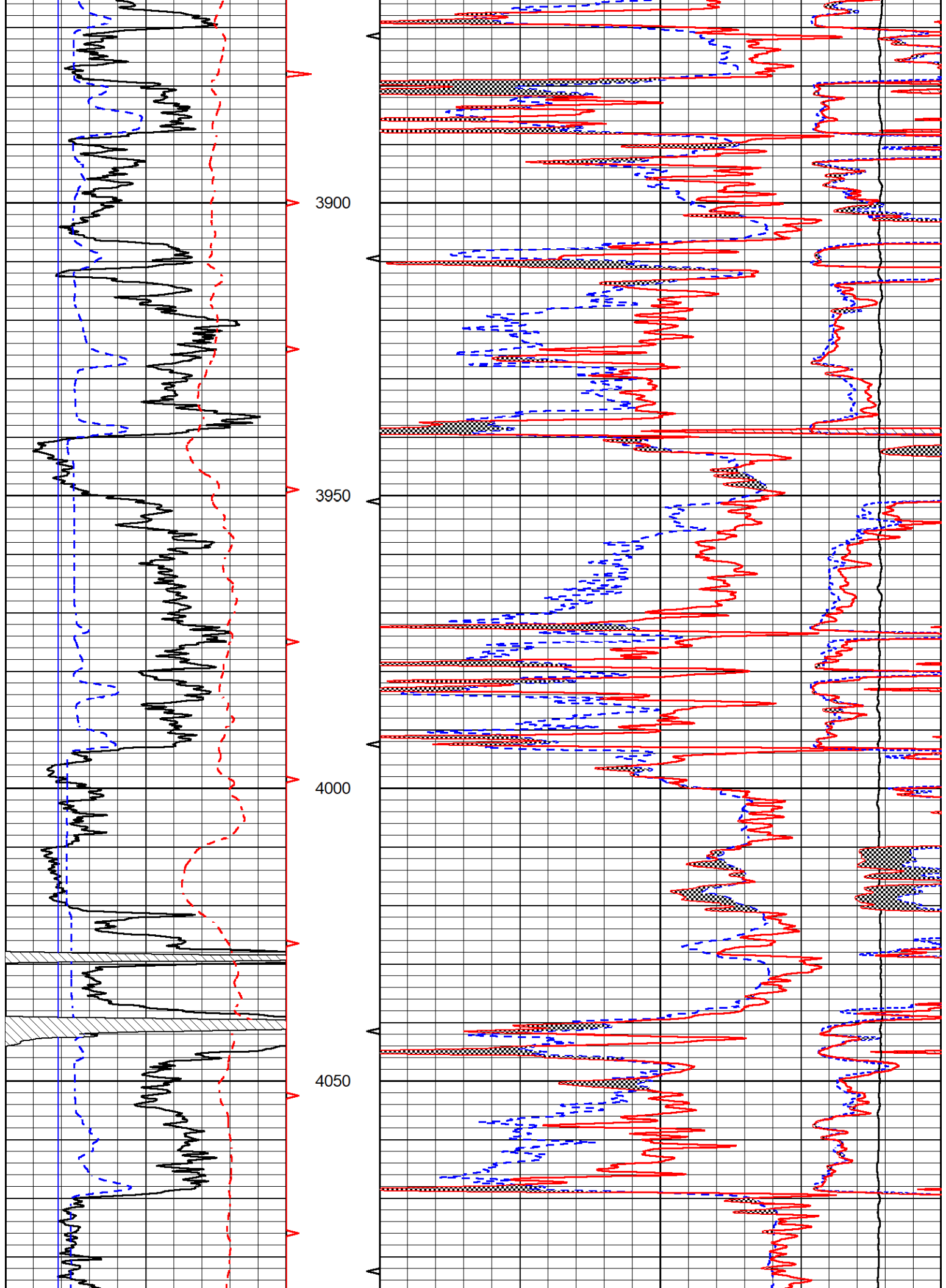
0	Gammy Ray (GAPI)	150
6	Caliper (in)	16
-200	SP (mV)	0

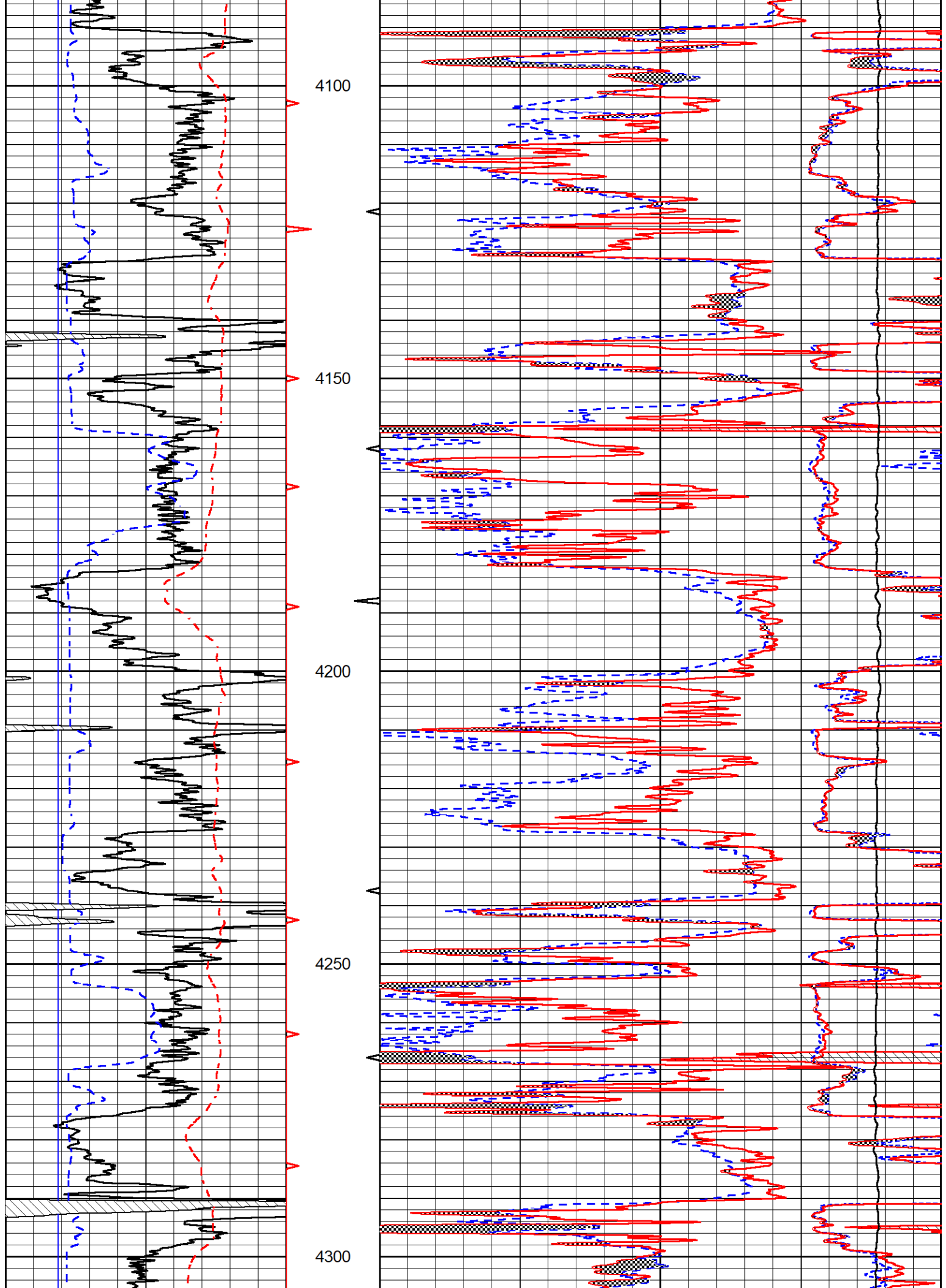
30	Compensated Neutron (pu)	-10
30	Compensated Density (pu)	-10
15000	Line Tension (lb)	0

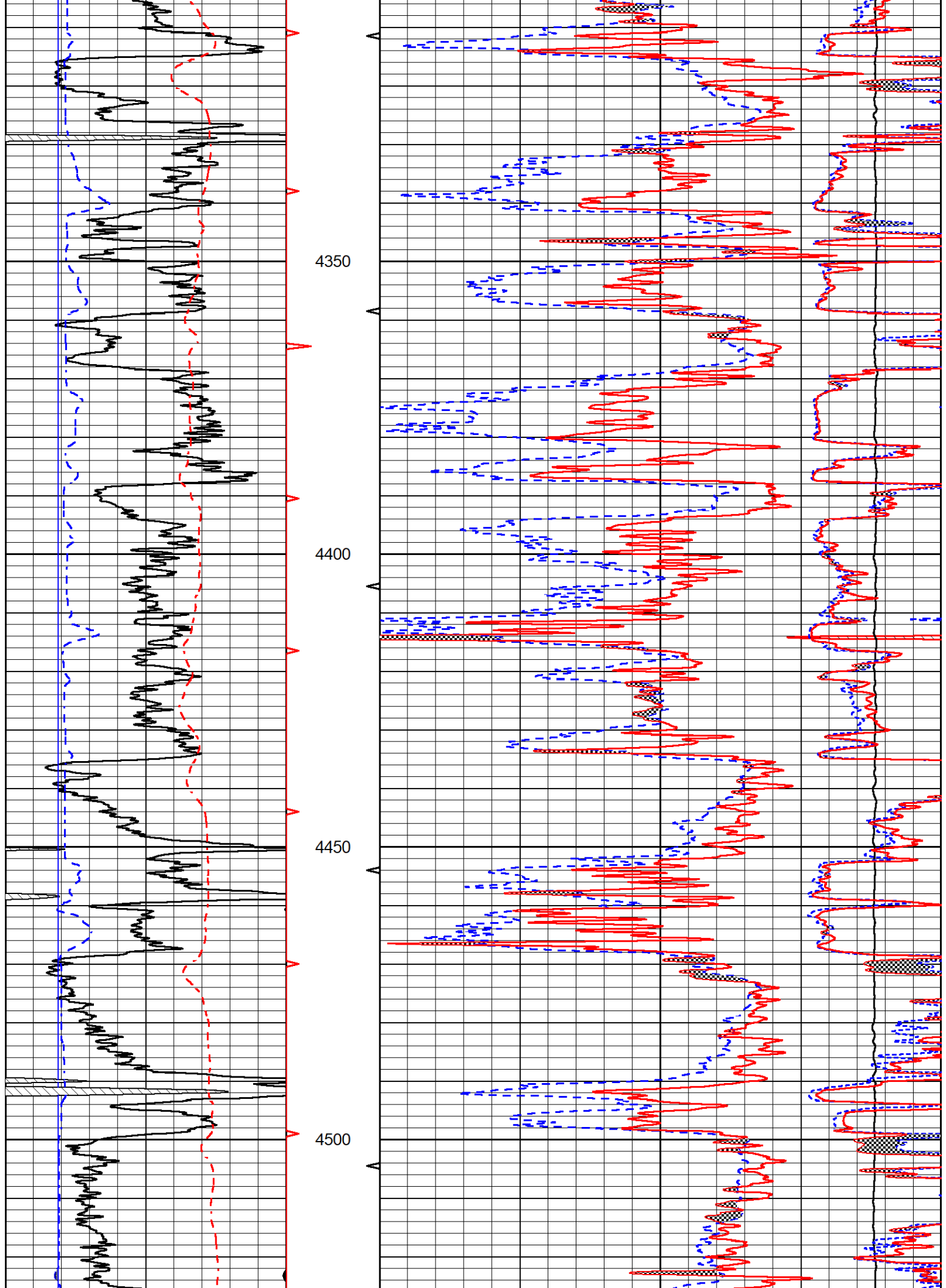
	Micro Normal	
0	(Ohm-m)	20
	Micro Inverse	
0	(Ohm-m)	20

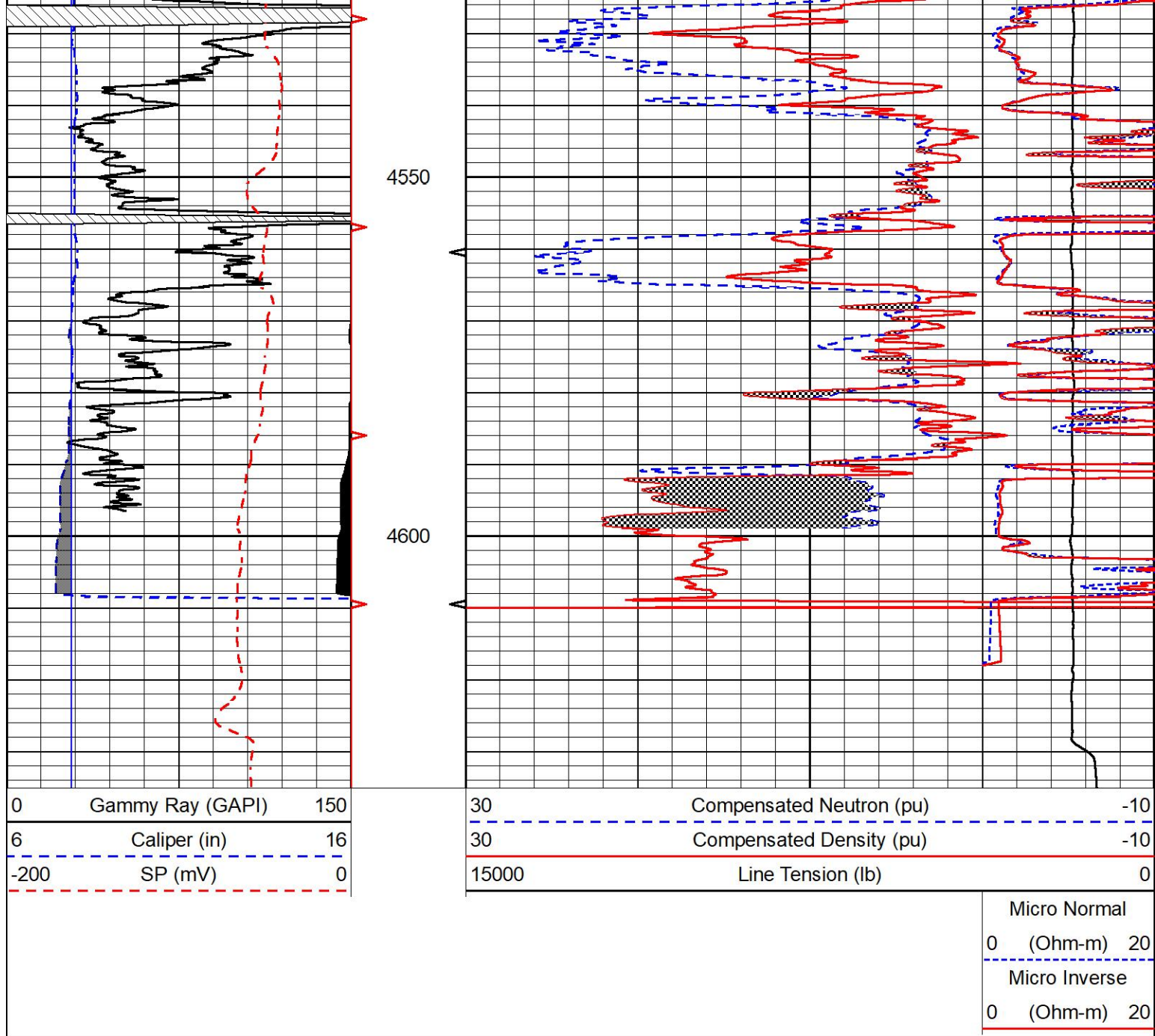










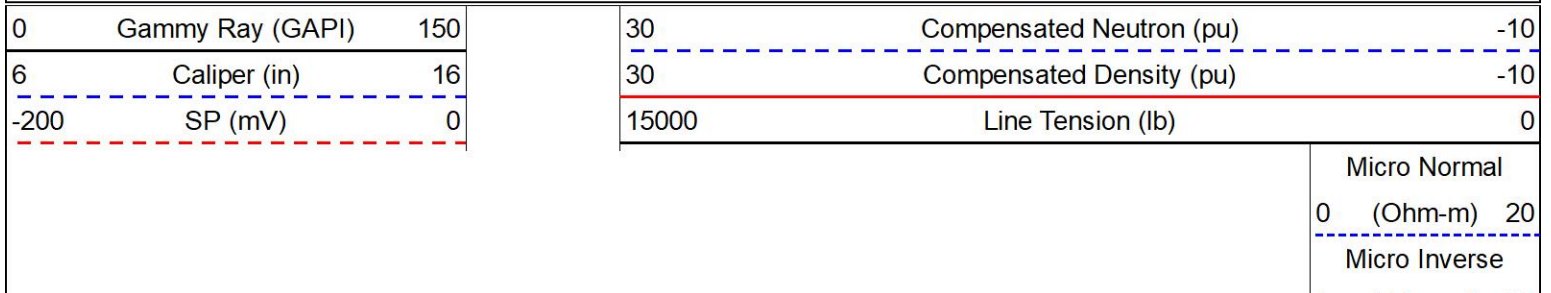


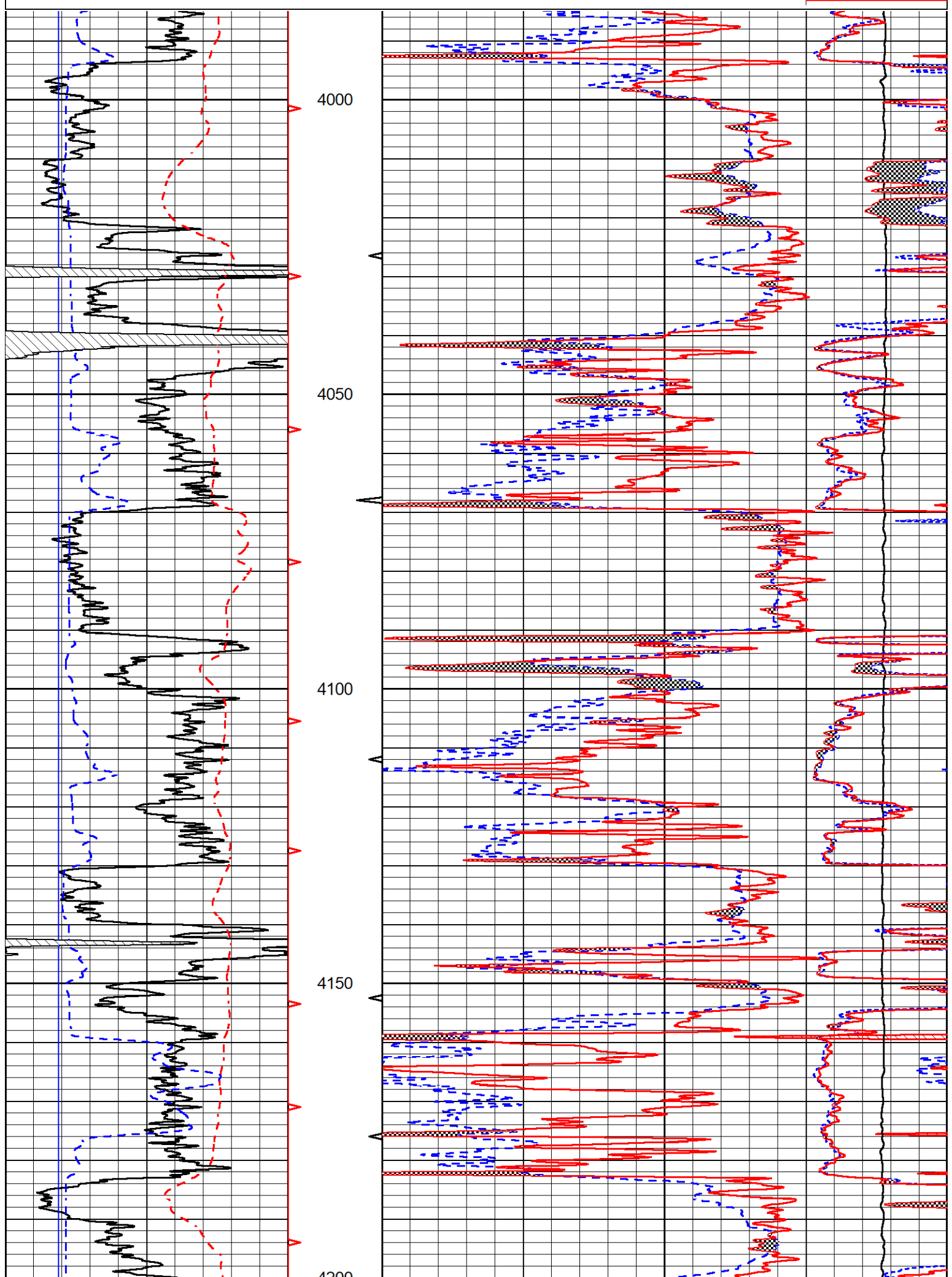
MIDWEST WIRELINE

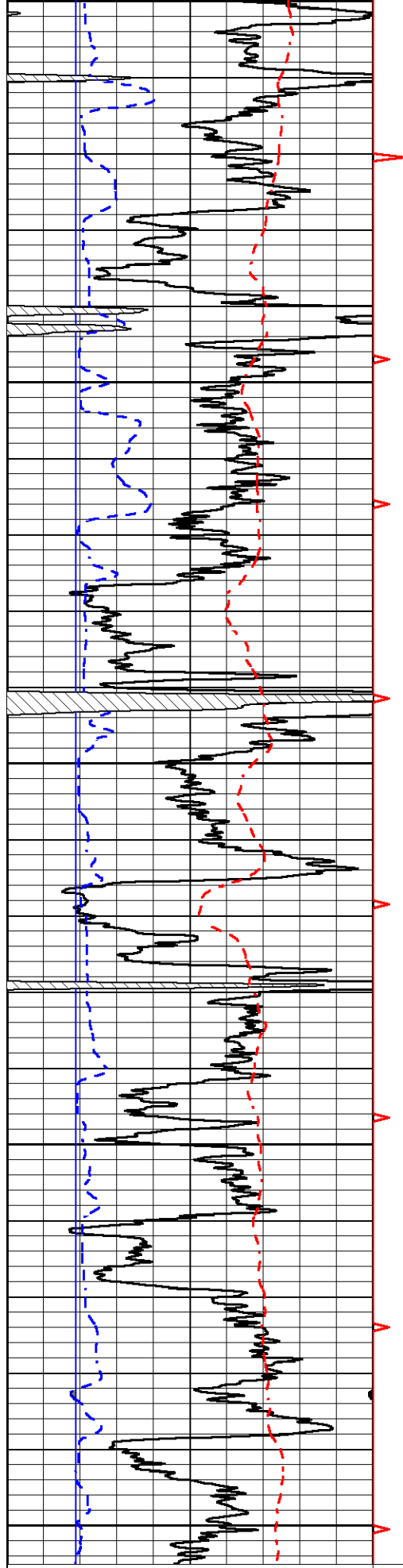
REPEAT SECTION

REPEAT PASS

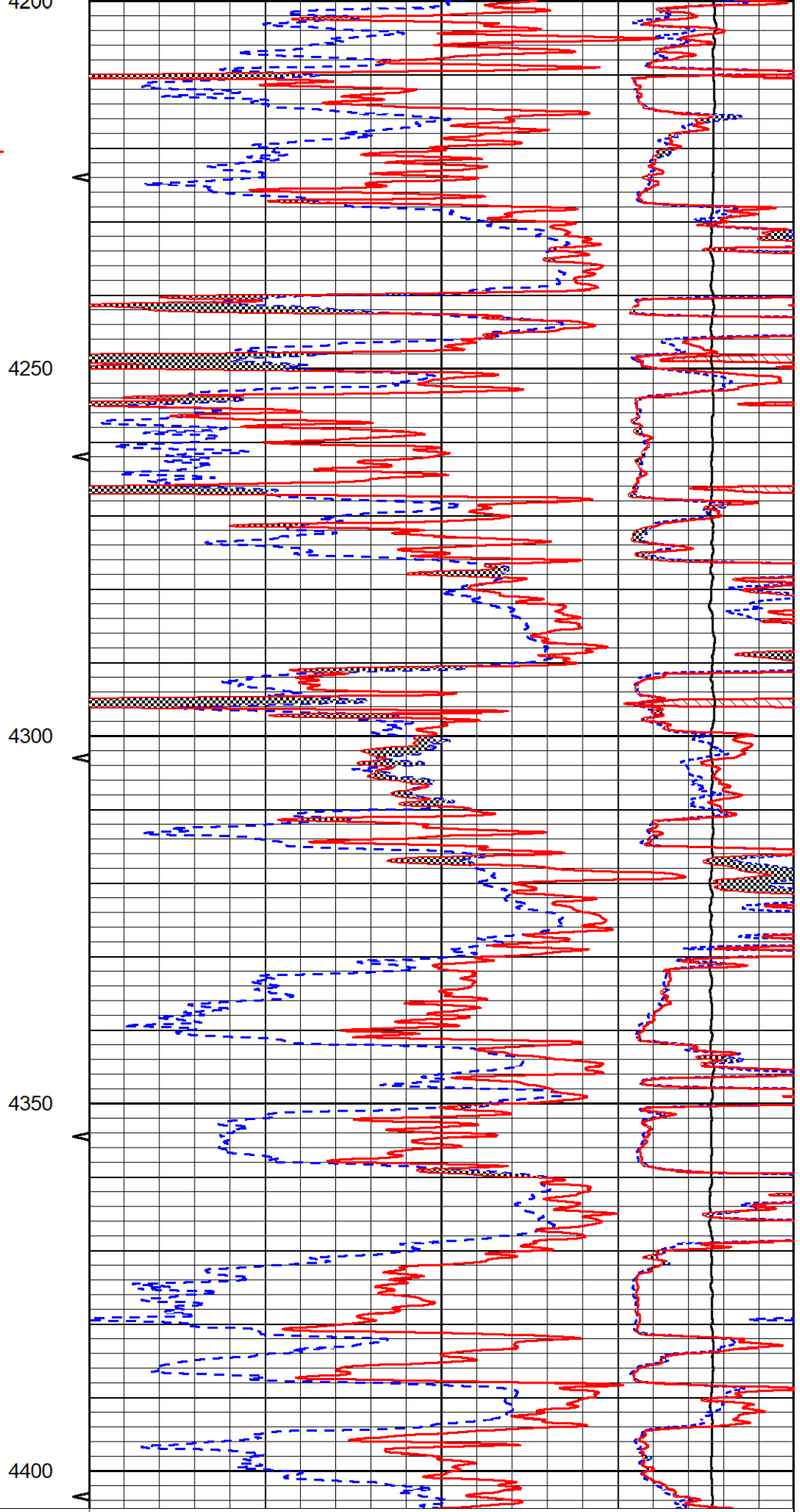
Database File murfin_jean a #2-7.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _CNDLS~2
 Dataset Creation Sun Jan 09 08:55:57 2022
 Charted by Depth in Feet scaled 1:240







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

Calibration Report								
Database File	murfin_jean a #2-7.db							
Dataset Pathname	StkMI/pass3.1							
Dataset Creation	Sun Jan 09 09:44:02 2022							
Dual Induction Calibration Report								
Serial-Model:			501 HT-M&W					
Surface Cal Performed:			Mon Dec 20 13:26:03 2021					
Readings			References			Results		
Loop:	Air	Loop	Air	Loop		m	b	
Deep	83.639	487.104	0.000	183.000	mmho/m	0.420	-33.500	
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.300	-31.500	
Microlog Calibration Report								
Serial-Model:			402-PSIML					
Performed:			Wed Jan 5 07:26:27 2022					
Readings			References			Results		
	Zero	Cal	Zero	Cal		m	b	
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	27000.0000	-1.0000	
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	23000.0000	0.0000	
Caliper	1.0052	1.0858	5.0000	16.5000	in	142.7190	-142.5500	
Compensated Density Calibration Report								
Serial-Model:			305-05-M&W					
Source #:			20762B					
Master Calibration Performed:			Mon Dec 13 15:18:29 2021					
Master Calibration								
		Density		Far Detector		Near Detector		
Magnesium		1.755	g/cc	8758.11		9709.36	cps	
Aluminum		2.630	g/cc	1513.14		5652.54	cps	
Spine Angle = 72.88				Density/Spine Ratio = 0.476				
		Size		Reading				
Small Ring		4.00	in	1.75				
Large Ring		14.00	in	1.38				
Compensated Neutron Calibration Report								
Serial-Model:			207-MW-M&W					
Source #:			100046B					
Master Calibration Performed:			Mon Nov 29 15:06:24 2021					

Master 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:	101	
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



Company	Murfin Drilling Company, Inc.
Well	Jean A #2-7
Field	Wildcat
County	Cheyenne
State	Kansas