

MICRORESISTIVITY LOG

MIDWEST WIRELINE

CompanyLandmark Resources, Inc.	
Well	Godfrey A #3-32
Field	
County	Sheridan
State	Kansas
Company Landmark Resources, Inc.	
Well	Godfrey A #3-32
Field	
County	Sheridan
State	Kansas
Location:	API #: 15-179-21502-00-00
1018 FNL & 1350 FWL	
Permanent Datum	SEC 32 TWP 6S RGE 28W
Log Measured From	Ground Level
Drilling Measured From	Kelly Bushing
	Elevation 2783
	Other Services
	CNL/CDL
	DIL/BHCS
	Elevation
	K.B. 2788
	D.F.
	G.L. 2783
Date	12/11/2023
Run Number	One
Depth Driller	4535
Depth Logger	4535
Bottom Logged Interval	4534
Top Log Interval	3400
Casing Driller	8.625 @ 305
Casing Logger	301
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	3000
Density / Viscosity	9.3 54
pH / Fluid Loss	11.0 6.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.70 @ 55
Rmt @ Meas. Temp	0.53 @ 55
Rmc @ Meas. Temp	0.95 @ 55
Source of Rmt / Rmc	CHARTS
Rm @ BHT	0.32 @ 121
Operating Rig Time	5 Hours
Max Rec. Temp. F	121
Equipment Number	P-108
Location	HAYS
Recorded By	D. Schmidt
Witnessed By	Terry McLeod

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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.

Hoxie,
6 1/2 North to 70th,
2 West, 3 3/4 North,
East into on north side of fence

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: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Terry McLeod
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\landmark_godfrey a 3-32.db
Dataset field/well/stkml/pass4.1/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 121	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m -7.5	mmho/m -1	mV 640	degF 40	Off	ft 4535

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



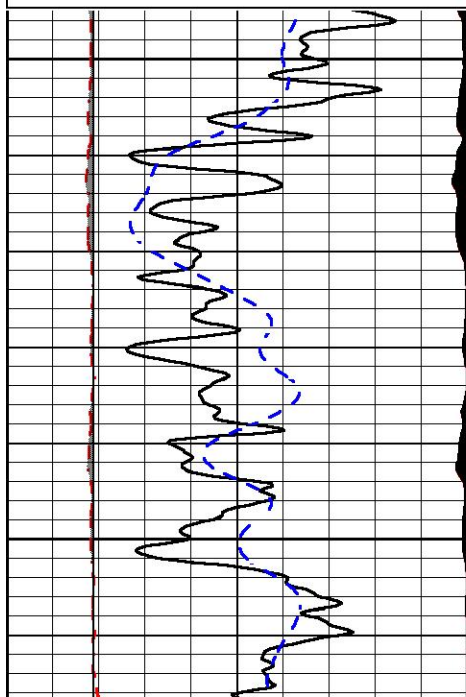
DETAIL SECTION

MAIN PASS

Database File landmark_godfrey a 3-32.db
Dataset Pathname stkml/pass4.1
Presentation Format _micro
Dataset Creation Tue Dec 12 01:46:59 2023
Charted by Depth in Feet scaled 1:240

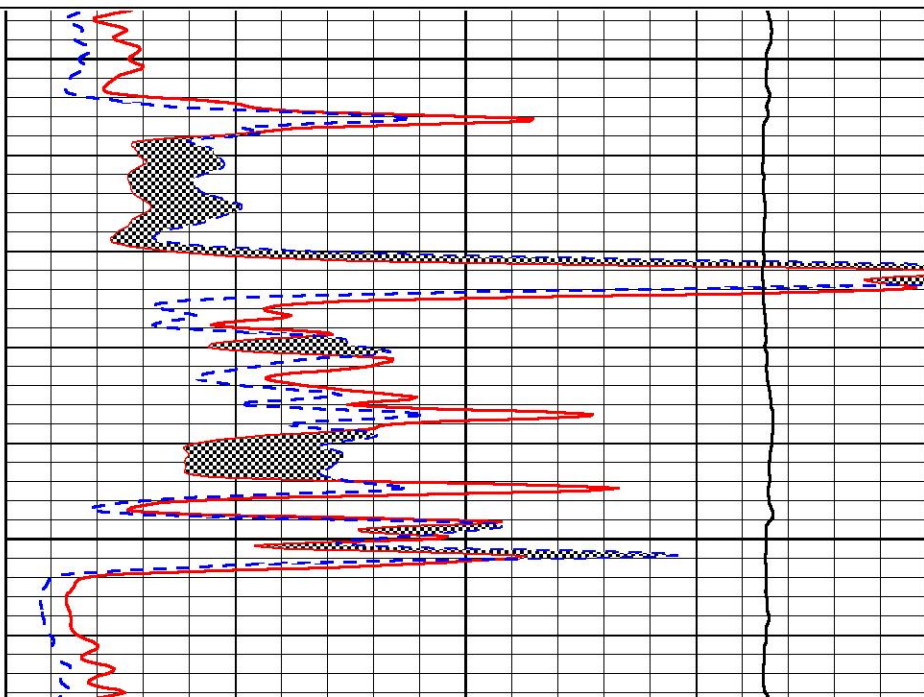
0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

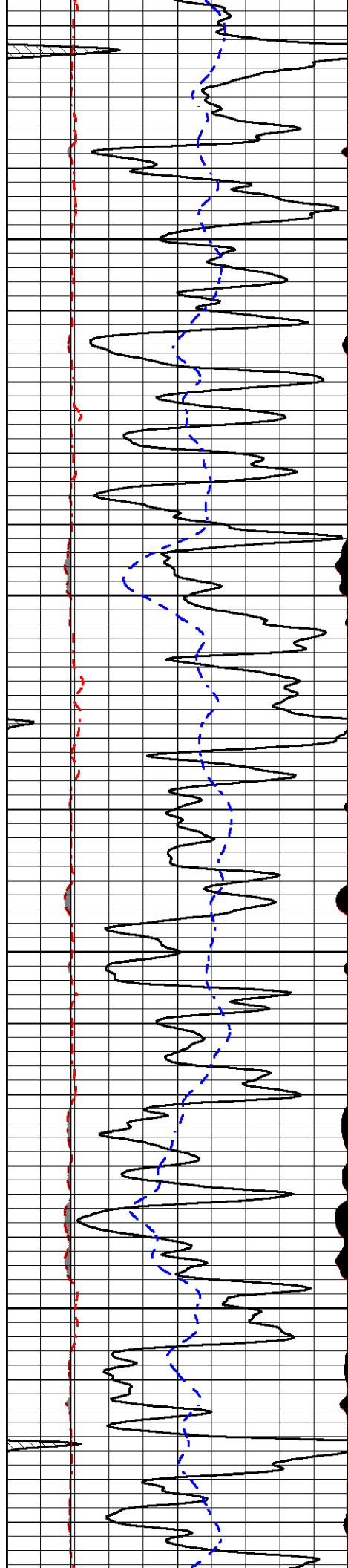
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3400

3450



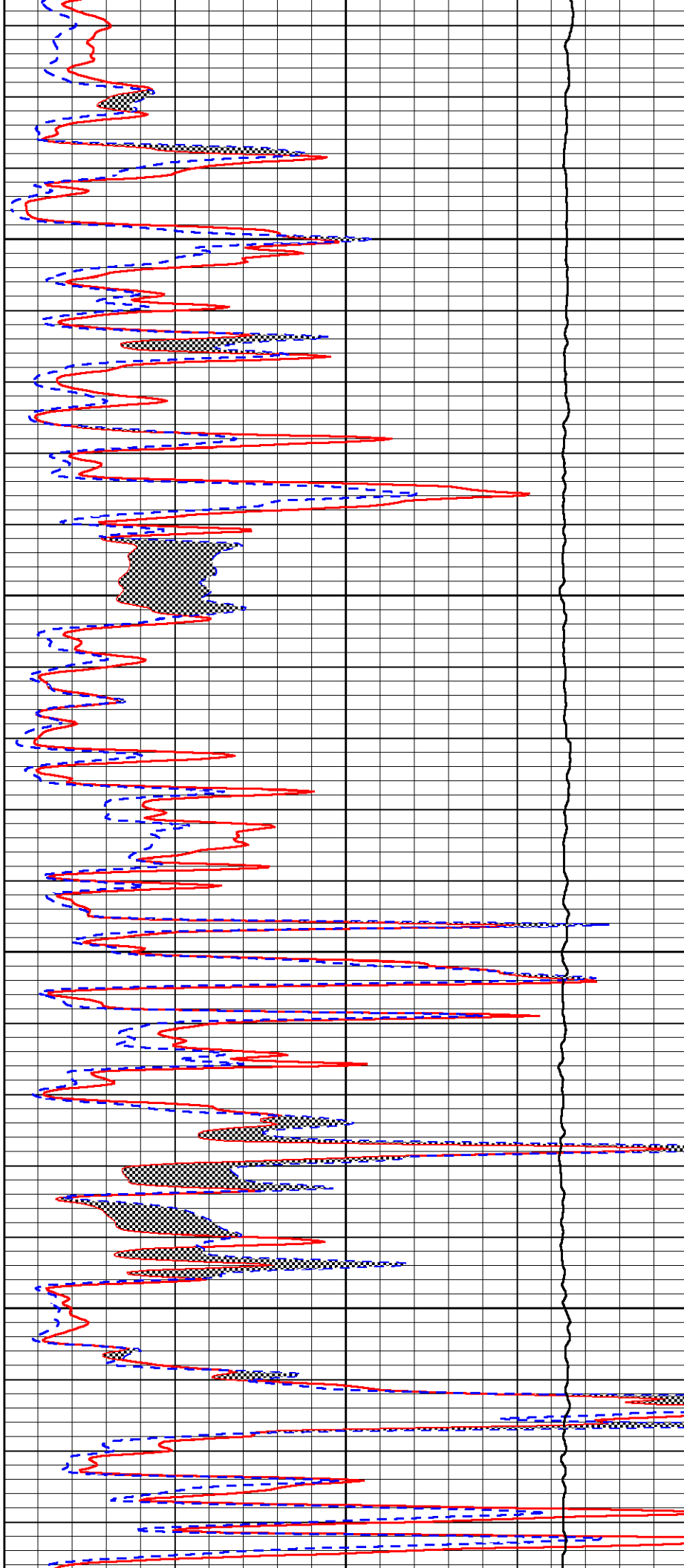


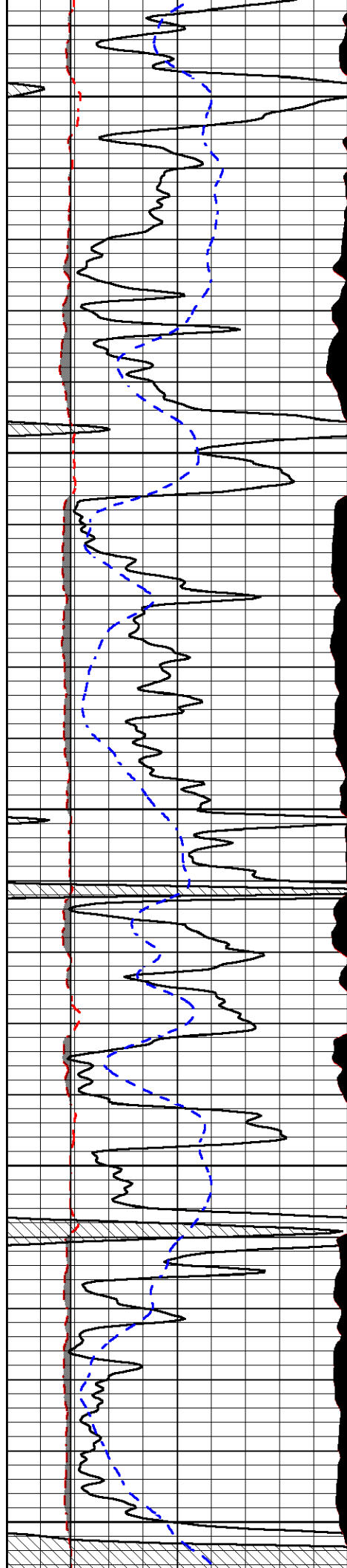
3500

3550

3600

3650





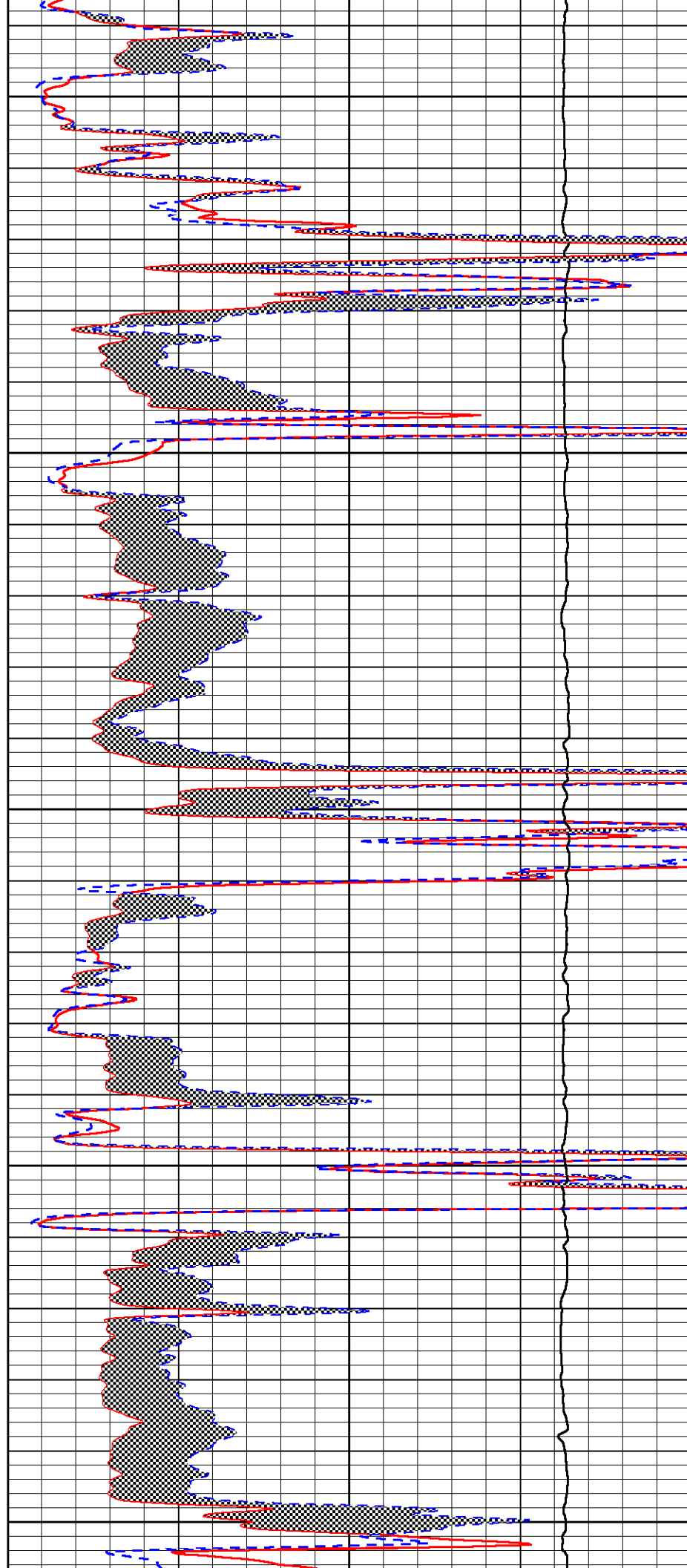
3700

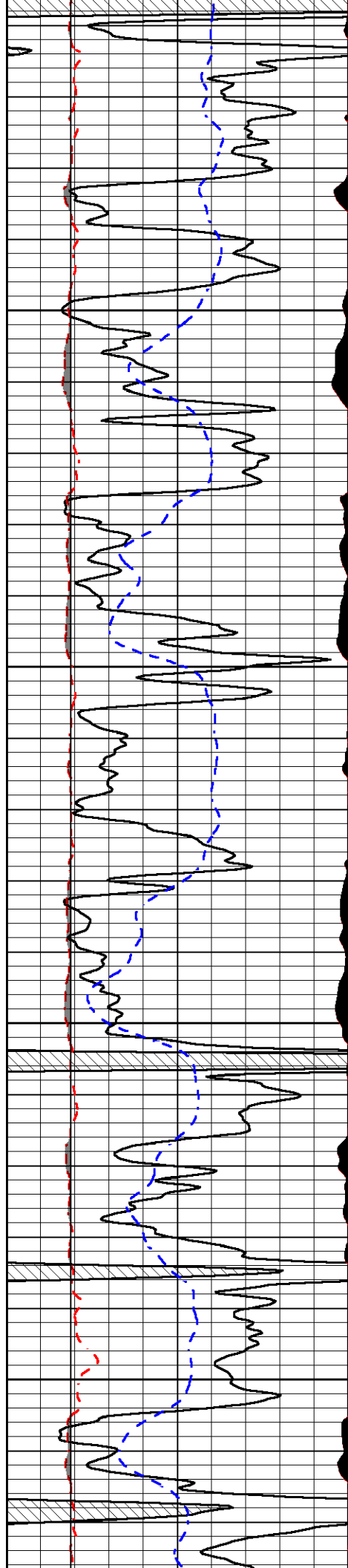
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3800

3850

3900



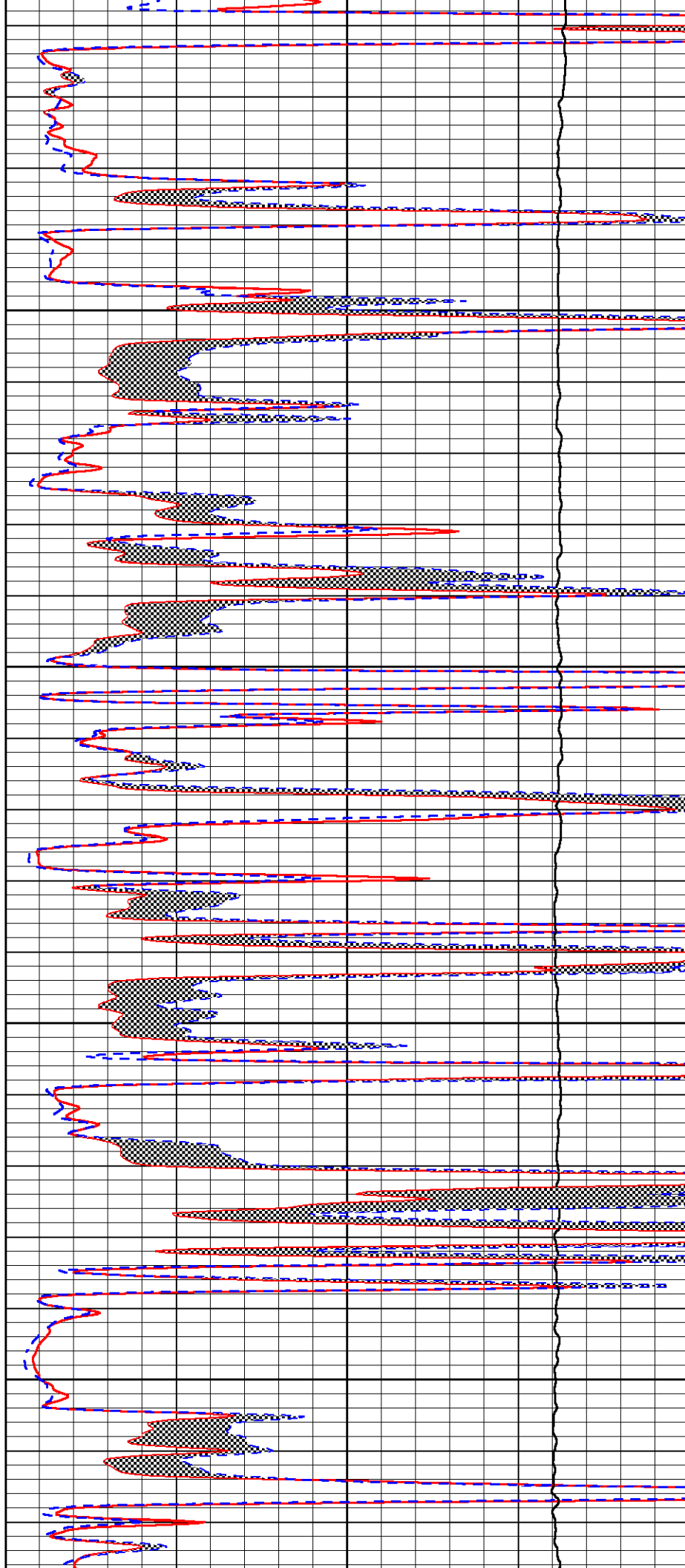


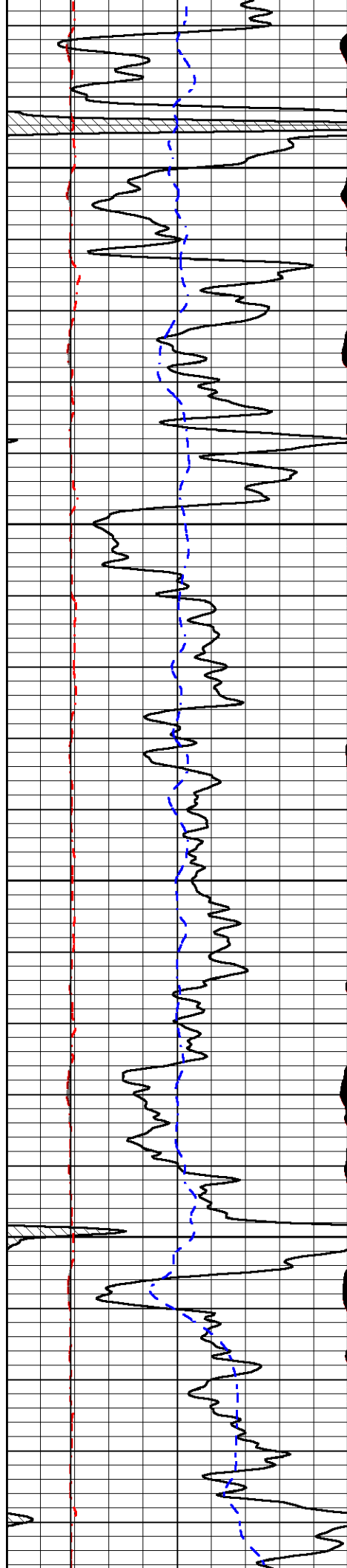
3950

4000

4050

4100



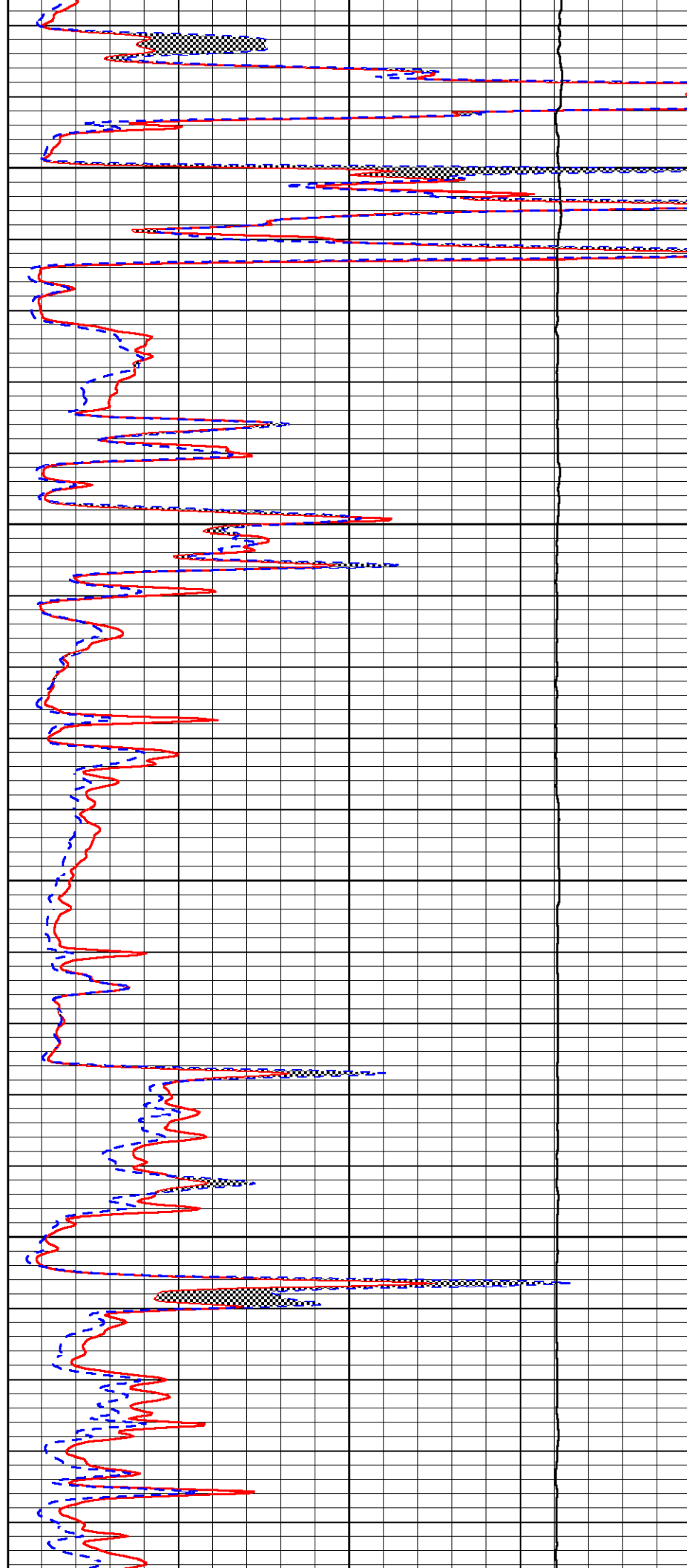


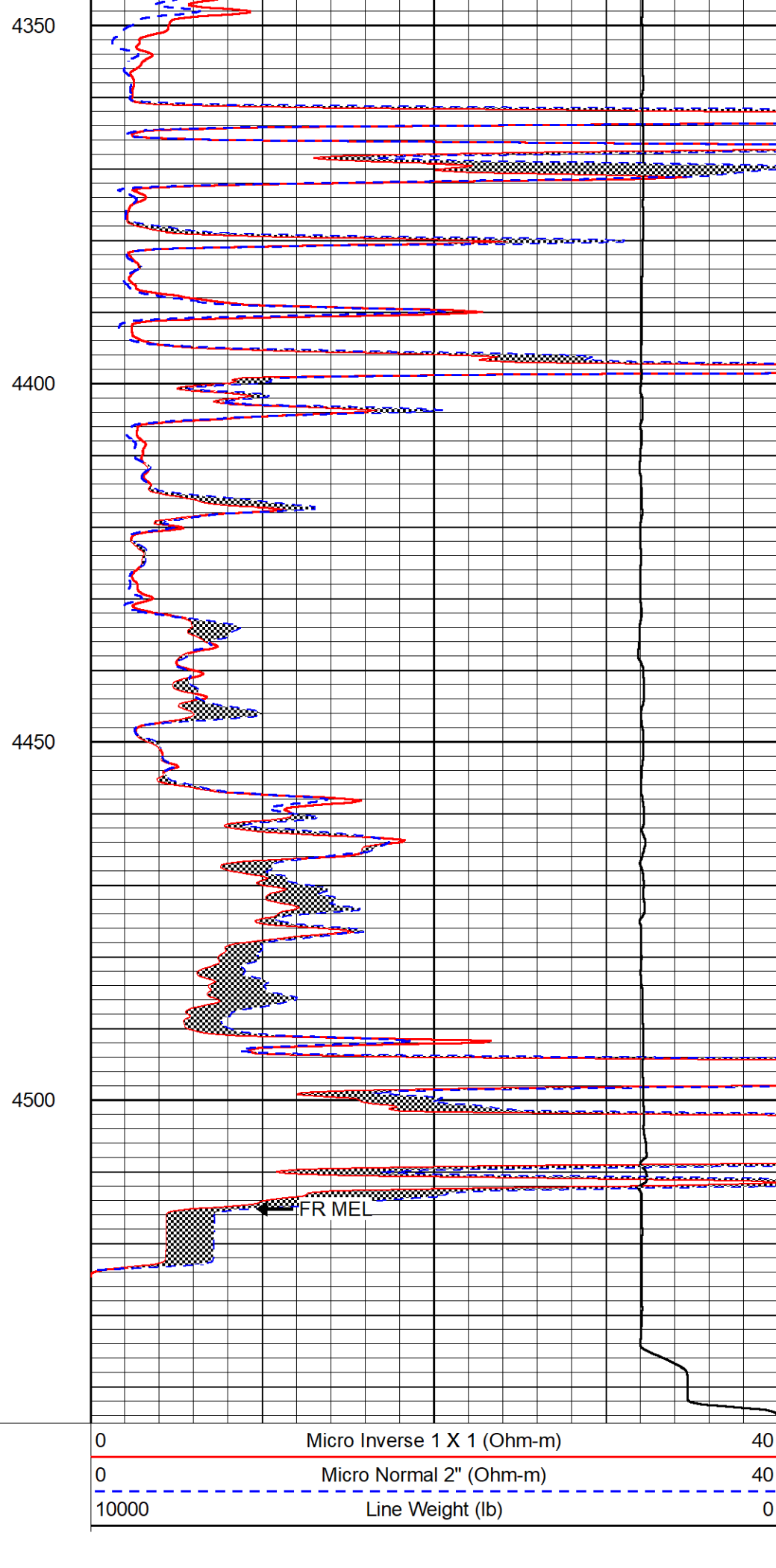
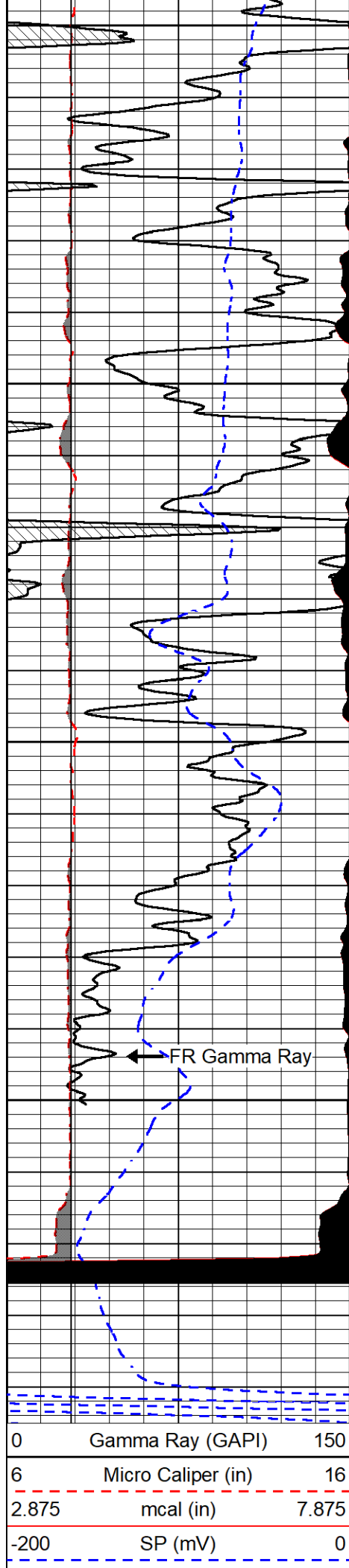
4150

4200

4250

4300







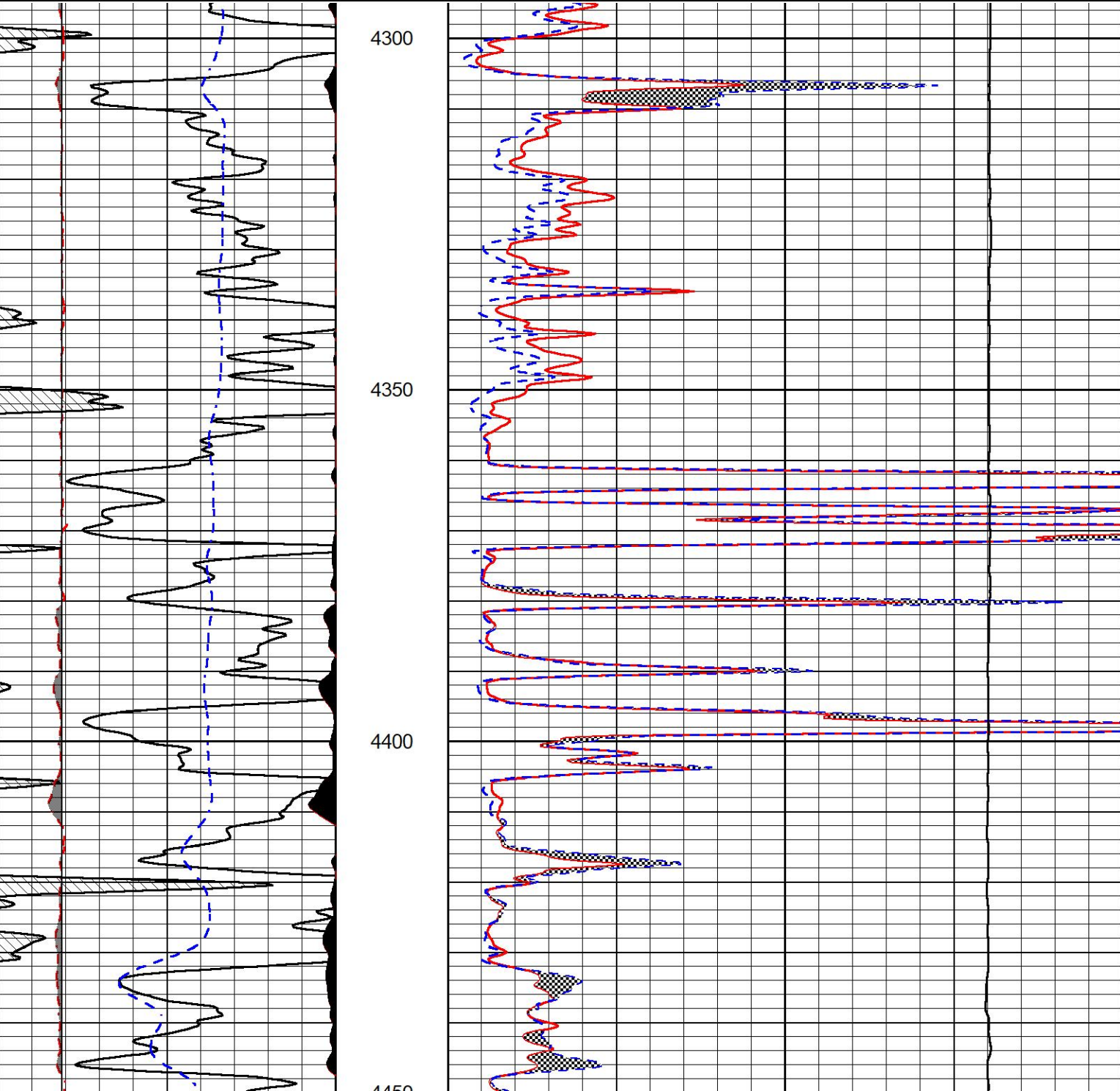
REPEAT SECTION

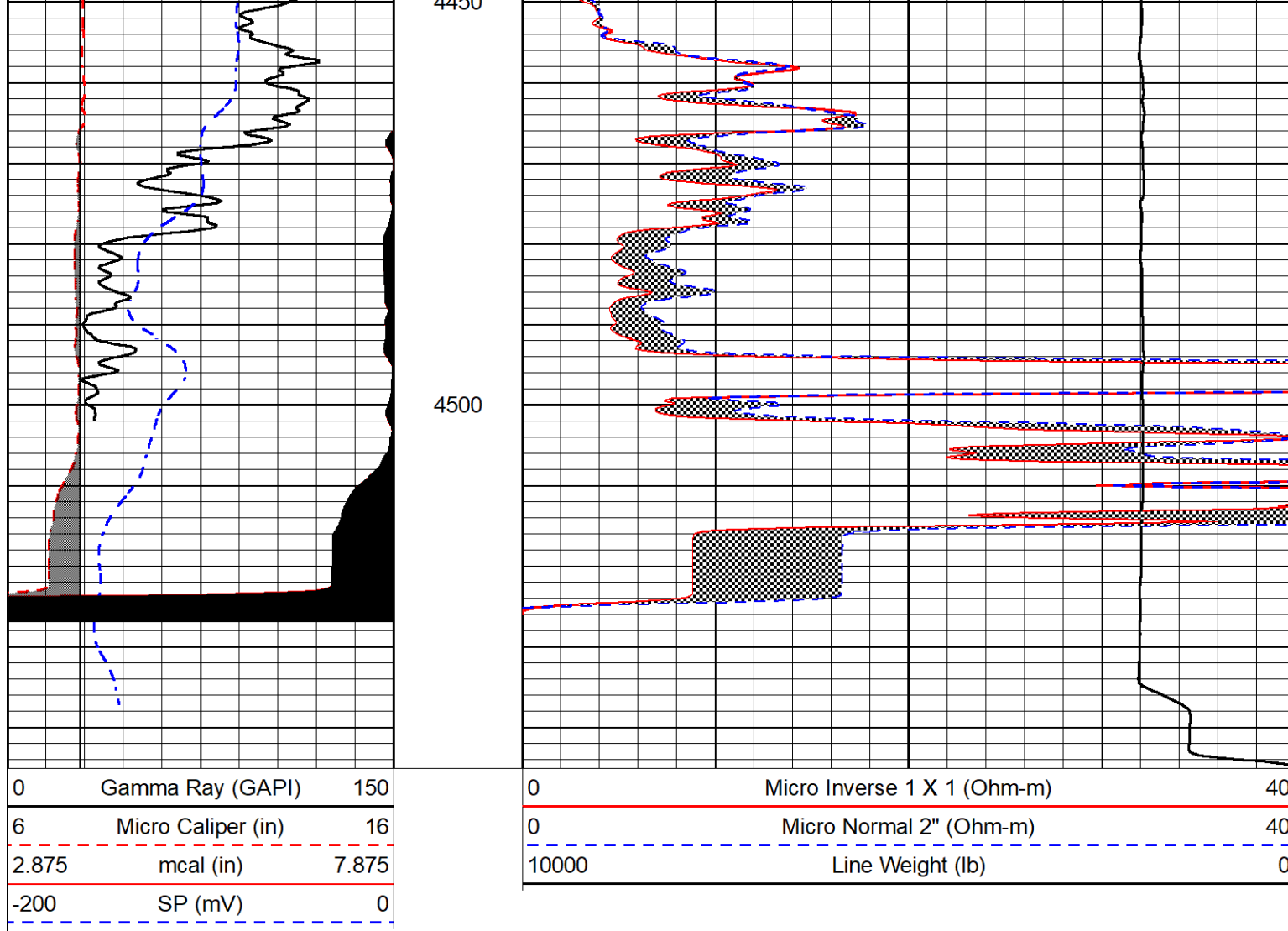
REPEAT PASS

Database File landmark_godfrey a 3-32.db
Dataset Pathname stkml/pass3.1
Presentation Format _micro
Dataset Creation Tue Dec 12 00:58:35 2023
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
6	Micro Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0





Calibration Report		
Database File	landmark_godfrey a 3-32.db	
Dataset Pathname	stkml/pass4.1	
Dataset Creation	Tue Dec 12 01:46:59 2023	

Dual Induction Calibration Report

Serial-Model:	504 HT-M&W
Surface Cal Performed:	Wed Jun 7 06:28:44 2023

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	1.100	-4.500
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.750	-35.000

Microlog Calibration Report

Serial-Model:	402-PSI STKBL ML
Performed:	Sat Dec 2 02:32:23 2023

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	22500.0000	-0.8000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	21000.0000	0.0000

Caliper	1.0046	1.1419			5.5000	20.0000	in	50.0000	-44.5500
LITHODENSITY Calibration Report									
Serial Number:	701-01								
Tool Model:	STEP LITHO Short								
Performed:	Wed Nov 8 15:09:59 2023								
Source:									
	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	52	54	204	252	23	67	44	1	cps
LS:	78	87	326	426	46	135	86	3	cps
Aluminum:									
SS:	790	958	2239	2075	45	71	45	2	cps
LS:	877	1656	3109	1518	56	132	85	4	cps
Magnesium:									
SS:	1295	1558	3653	2988	50	71	47	3	cps
LS:	3705	6851	12249	4886	93	127	85	12	cps
Aluminum+Iron:									
SS:	500	668	1858	1761	40	72	47	2	cps
LS:	514	1150	2612	1334	53	134	84	4	cps
		Density			PE				
		Actual	Calibrated		Actual	Calibrated	Quality		
Background:									
SS:							0.209		
LS:							0.223		
Aluminum:									
SS:	2.6000	2.6000	g/cc	0.229					
LS:	2.6000	2.6000	g/cc	0.218					
Magnesium:									
SS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.203			
LS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.195			
Aluminum+Iron:									
SS:						6.1800	0.207		
LS:						6.1800	0.229		
Caliper:			Reference:			Reading:			
Small Ring:			6.0	in	0.2				
Large Ring:			16.0	in	0.8				
Gain:			14.000						
Offset:			1.800						
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					

Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps



Company	Landmark Resources, Inc.
Well	Godfrey A #3-32
Field	
County	Sheridan
State	Kansas