



MIDWEST WIRELINE

MICRORESISTIVITY LOG

CompanyLandmark Resources, Inc.	
Well	Godfrey A 1-32
Field	Unnamed
County	Sheridan
State	Kansas
Company Landmark Resources, Inc.	
Well	Godfrey A 1-32
Field	Unnamed
County	Sheridan
State	Kansas
Location:	API # : 15-179-21485-00-00
1207 FNL & 573 FWL	
Permanent Datum	Ground Level
Log Measured From	Kelly Bushing
Drilling Measured From	Kelly Bushing
SEC 32 TWP 6S RGE 28W	
Elevation 2784	
Other Services	
CNL/CDL	
DIL/BHCS	
Elevation	
K.B. 2789	
D.F.	
G.L. 2784	
Date	4/18/2022
Run Number	One
Depth Driller	4509
Depth Logger	4509
Bottom Logged Interval	4508
Top Log Interval	3400
Casing Driller	8.625 @ 312
Casing Logger	303
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity,ppm CL	2400
Density / Viscosity	9.3 67
pH / Fluid Loss	10.0 7.2
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.80 @ 68
Rmt @ Meas. Temp	.60 @ 68
Rmc @ Meas. Temp	1.08 @ 68
Source of Rmt / Rmc	CHARTS
Rm @ BHT	.45 @ 121
Operating Rig Time	4 Hours
Max Rec. Temp. F	124
Equipment Number	P-108
Location	HAYS
Recorded By	J. Henrickson
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 Kansas
North to 110, 2 West, 1.2 South,
East 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

Engineer: J. Henrickson
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

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

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 124	in 5.5	in 0	g/cc 1	2	g/cc 2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m 0	mmho/m 0	mV 460	degF 50	Off	ft 4509

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

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.48					
LSD	28.18		CDL-M&W (303-03)	8.50	4.00	250.00
	28.17					
	27.68					
ML-PSI STKBL ML	19.58		ML-PSI STKBL ML (402)	7.58	4.00	65.00
	19.58					
	19.58					
RLL3F	15.50					
RLL3	15.50					

CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00
CILM	4.50					
SP	0.20					
Dataset: landmark_godfrey_a_1_32.db: field/well/stackml/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in						



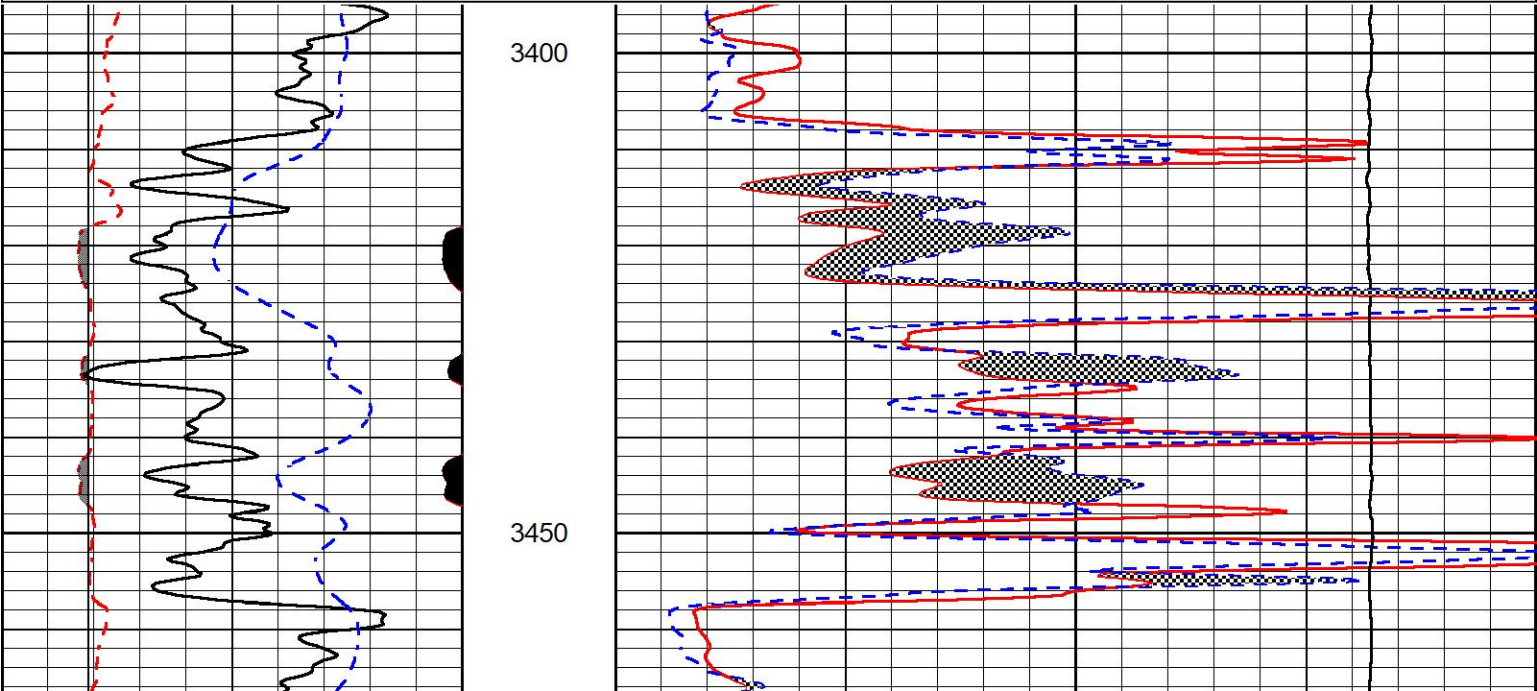
MIDWEST WIRELINE

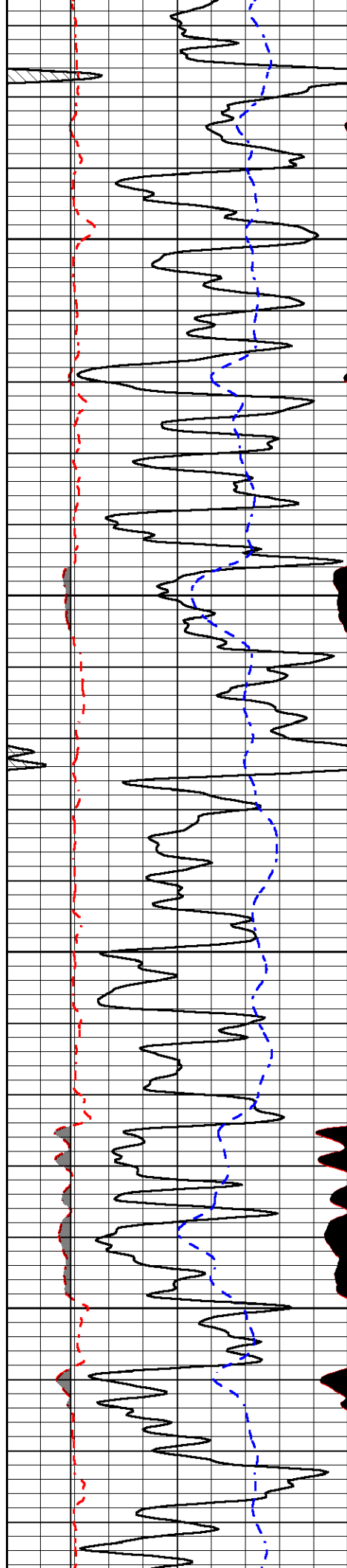
DETAIL SECTION

MAIN PASS

Database File	landmark_godfrey_a_1_32.db	Dataset Pathname	stackml/pass4.1
Presentation Format	_micro	Dataset Creation	Mon Apr 18 23:31:16 2022
Charted by	Depth in Feet scaled 1:240		

0	Gamma Ray (GAPI)	150	0	Micro Inverse 1 X 1 (Ohm-m)	40
6	Caliper (in)	16	0	Micro Normal 2" (Ohm-m)	40
2.875	mcal (in)	7.875	10000	Line Weight (lb)	0
-200	SP (mV)	0			



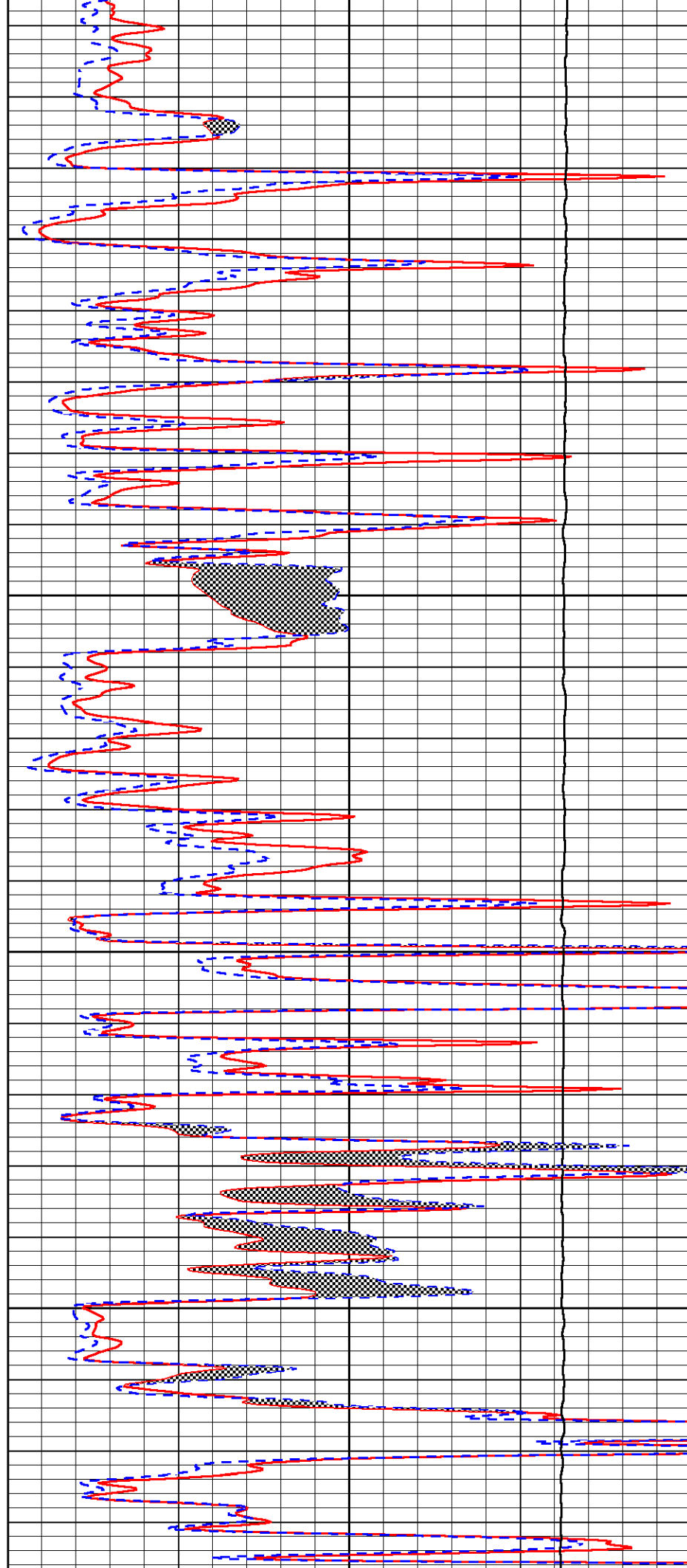


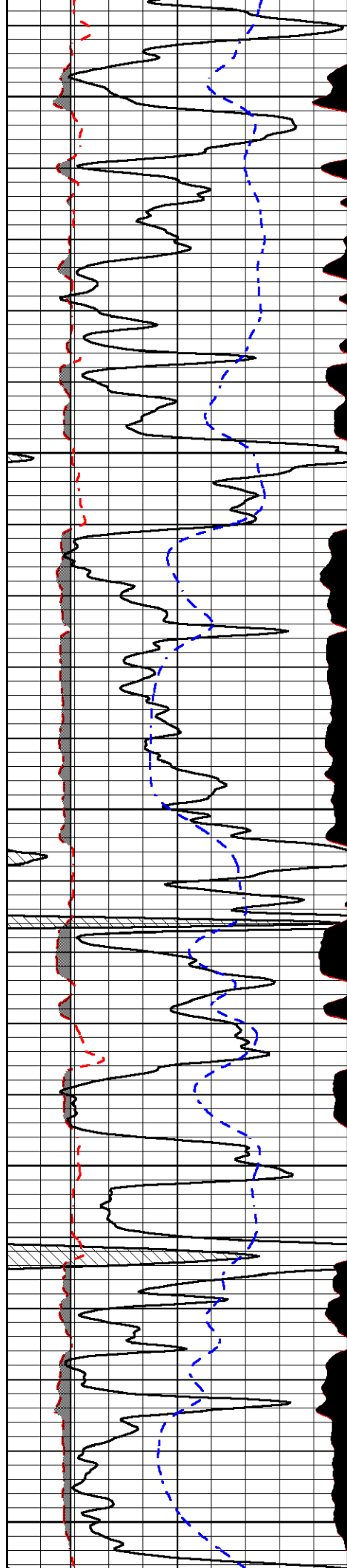
3500

3550

3600

3650





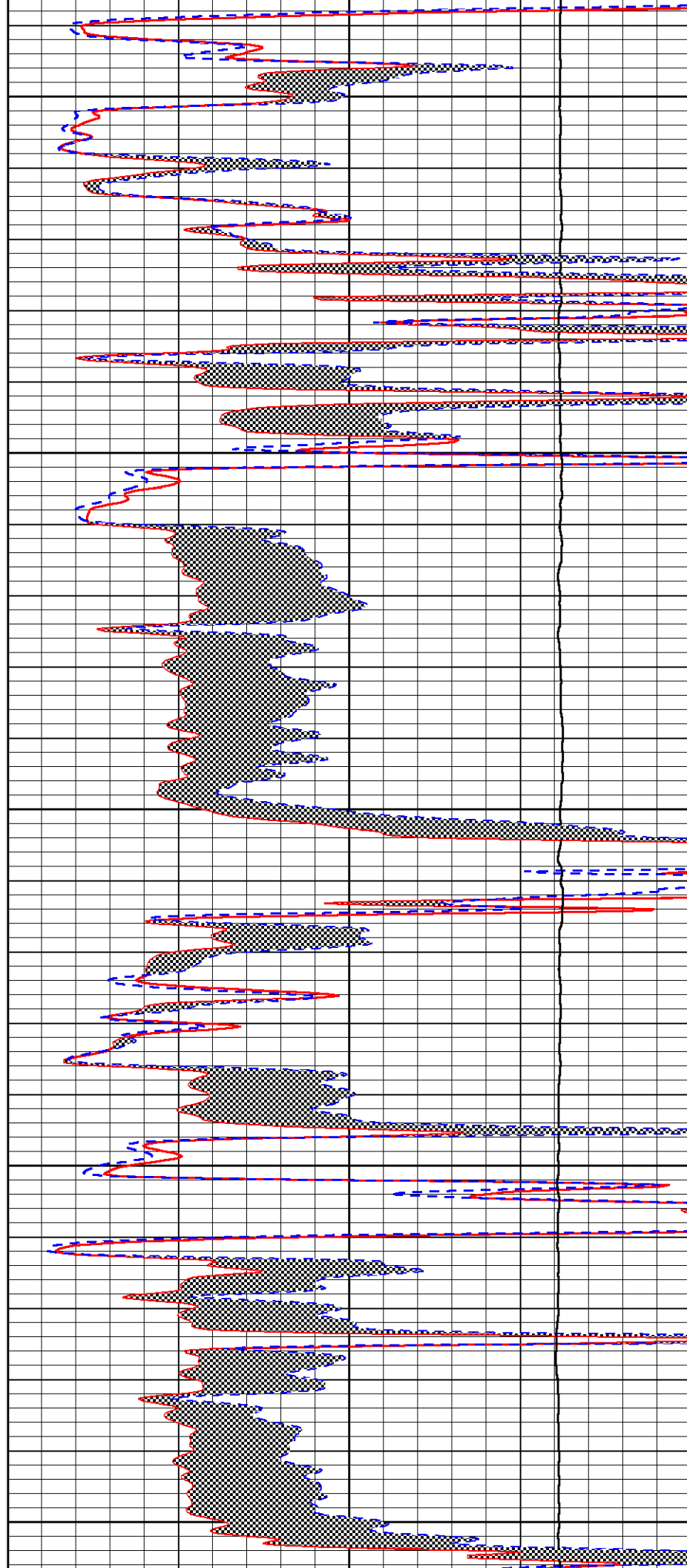
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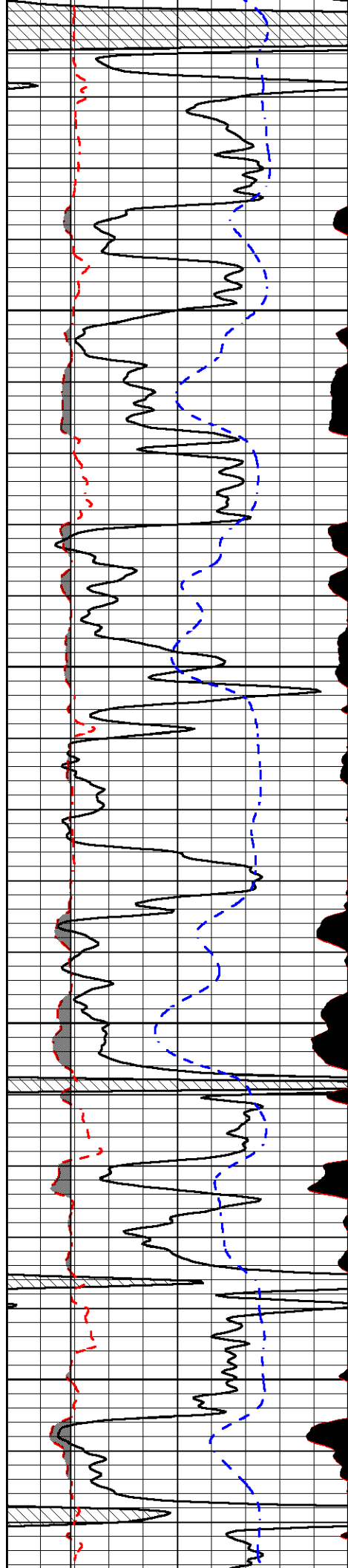
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3800

3850

3900



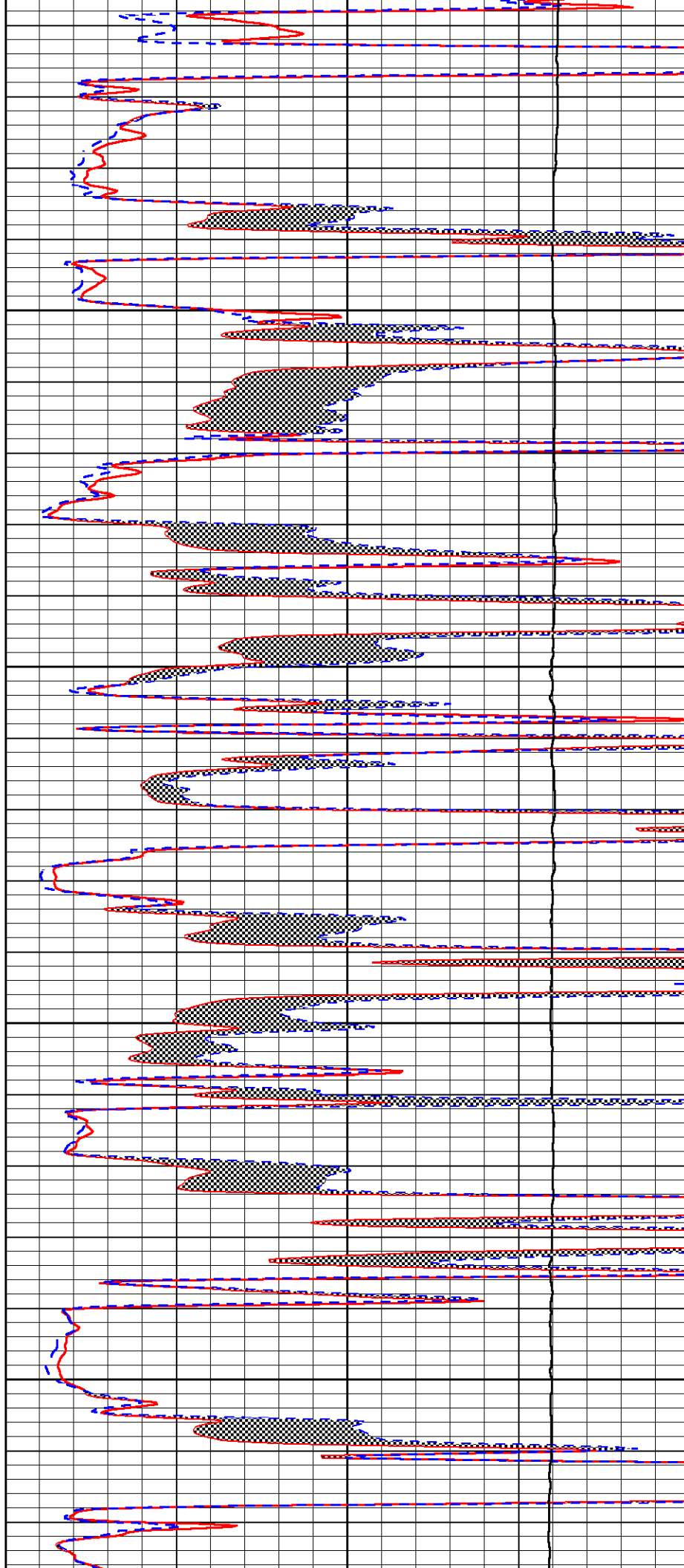


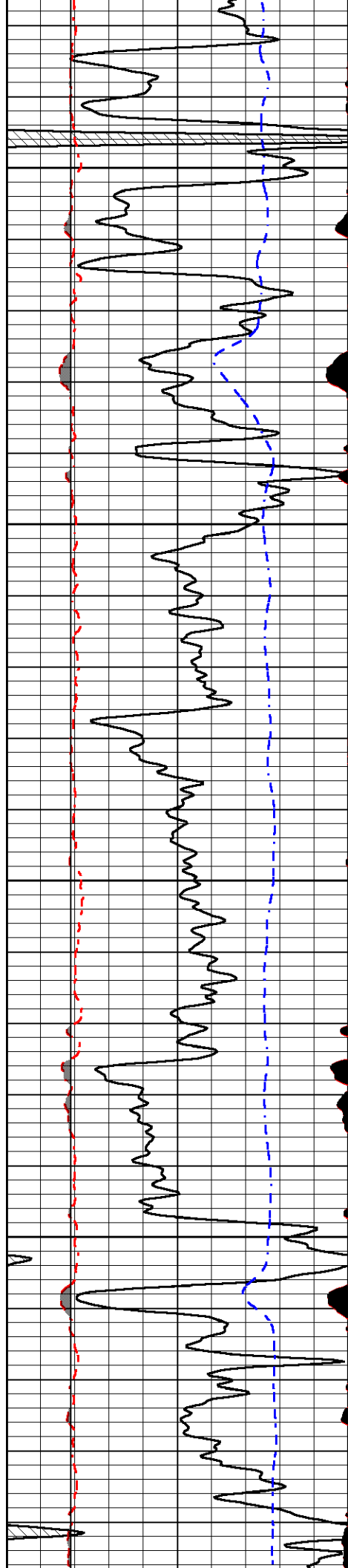
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4000

4050

4100



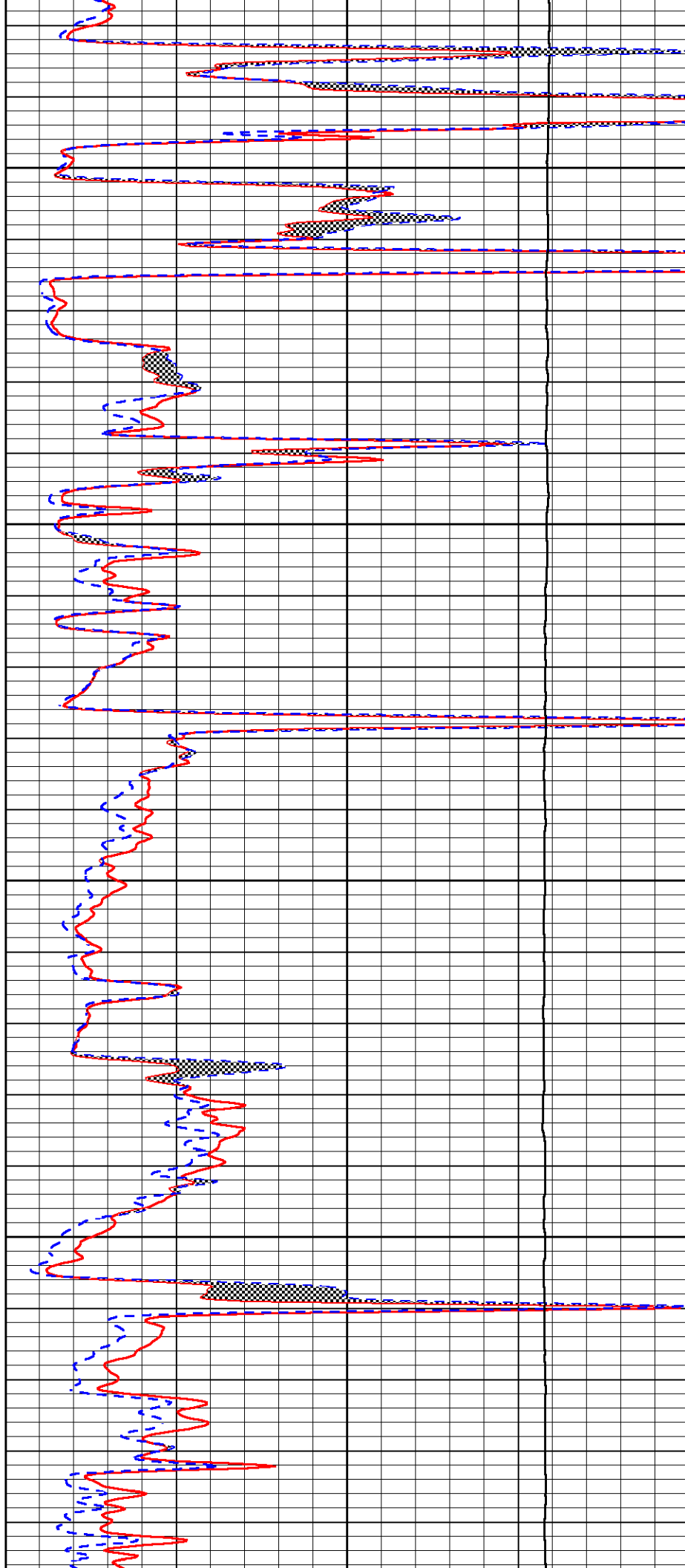


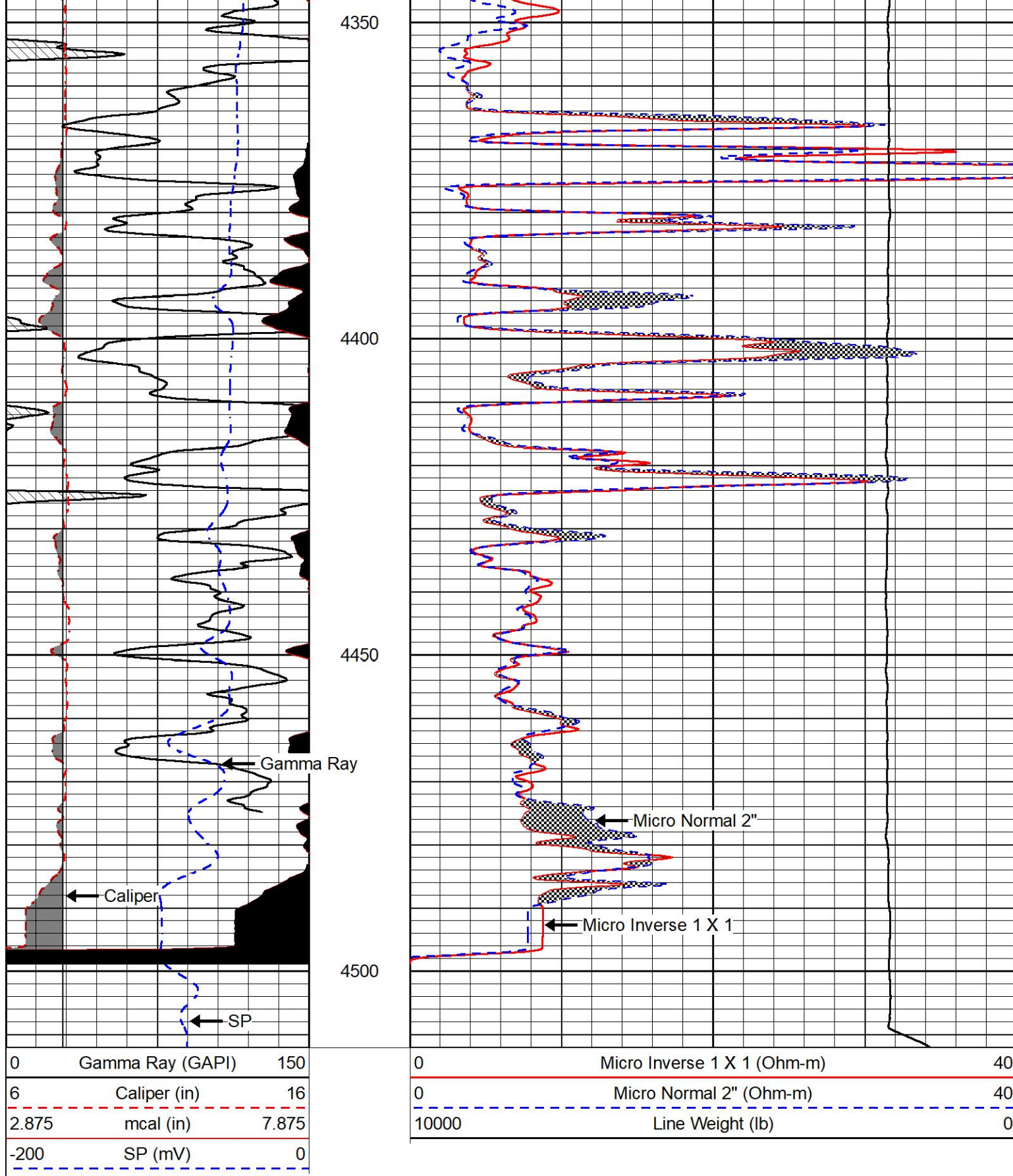
4150

4200

4250

4300





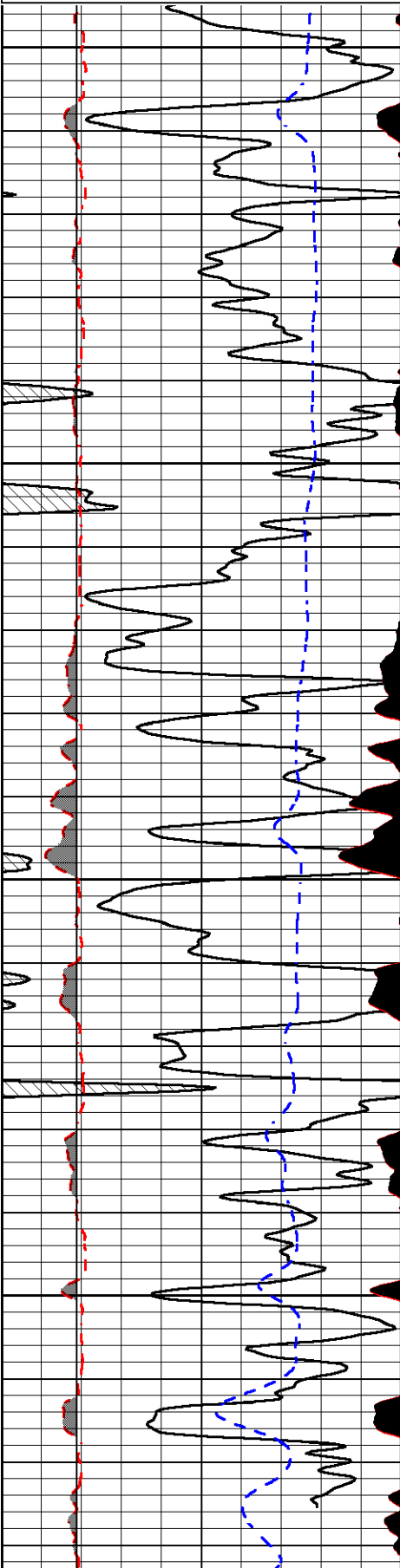
REPEAT SECTION

REPEAT PASS

Database File landmark_godfrey_a_1_32.db
Dataset Pathname stackml/pass2.1

0	Gamma Ray (GAPI)	150
6	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

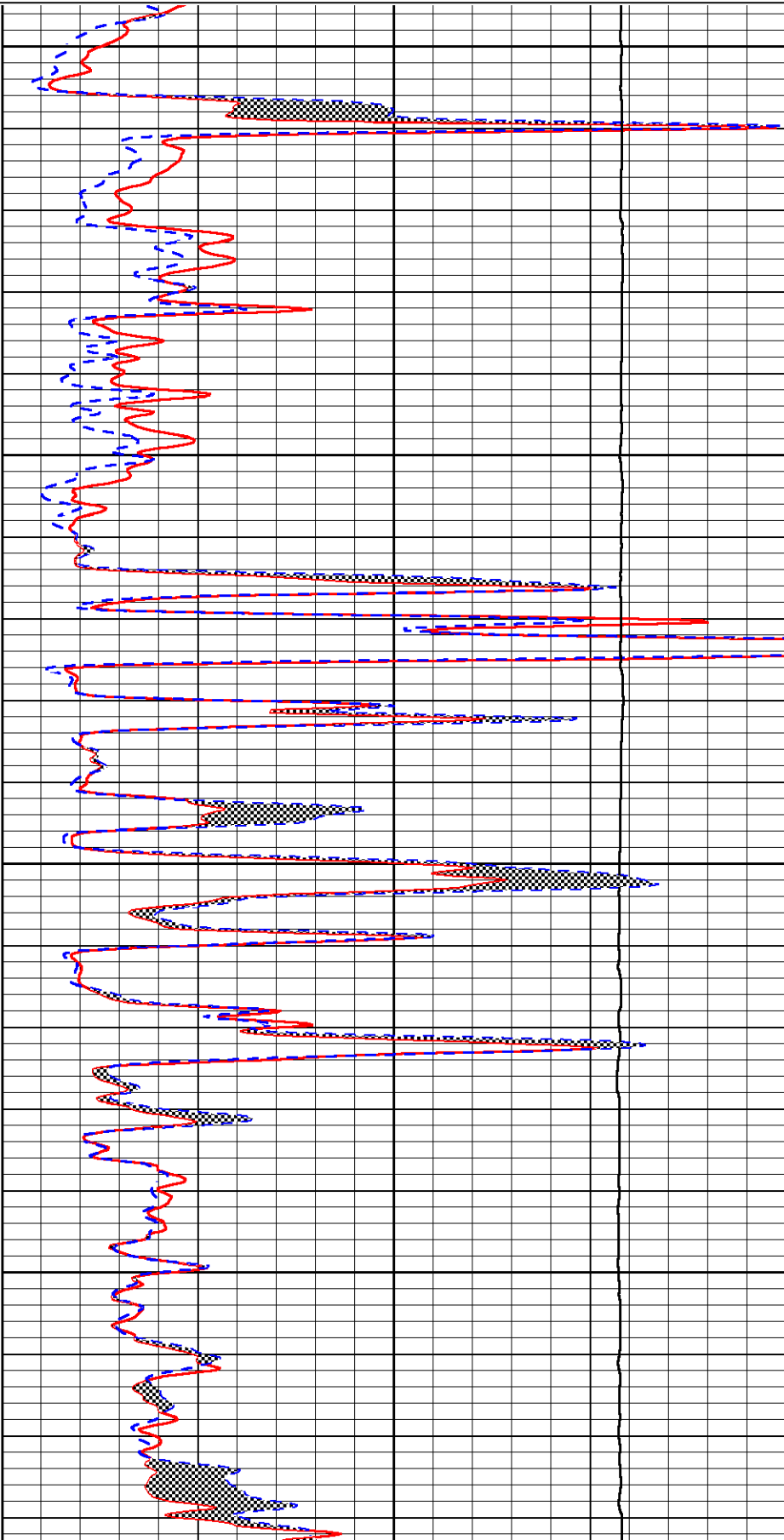


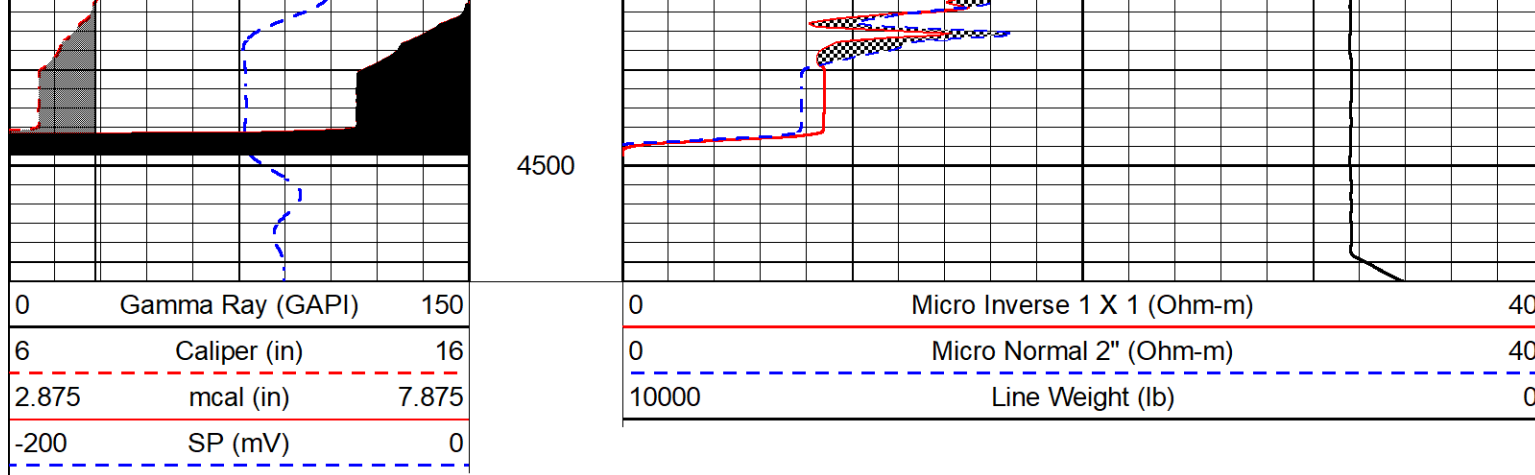
4300

4350

4400

4450





Calibration Report	
Database File	landmark_godfrey_a_1_32.db
Dataset Pathname	stackml/pass4.1
Dataset Creation	Mon Apr 18 23:31:16 2022

Dual Induction Calibration Report	
Serial-Model:	504 HT-M&W
Surface Cal Performed:	Thu Dec 16 22:32:49 2021

		Readings		References		Results	
Loop:		Air	Loop	Air	Loop	m	b
Deep		178.615	710.235	0.000	255.800	mmho/m	0.650
Medium		161.982	1441.110	0.000	255.800	mmho/m	-19.000
							-45.500

Microlog Calibration Report	
Serial-Model:	402-PSI STKBL ML
Performed:	Sat Mar 19 19:10:40 2022

		Readings		References		Results	
		Zero	Cal	Zero	Cal	m	b
Normal		0.0037	0.0043	0.0000	10.0000	Ohm-m	18000.0000
Inverse		0.1208	0.0013	0.0000	10.0000	Ohm-m	-1.0000
Caliper		1.0020	1.0834	5.5000	16.5000	in	15500.0000
							0.0000
							135.1520
							-131.2000

Compensated Density Calibration Report	
Serial-Model:	303-03-M&W
Source #:	21170B
Master Calibration Performed:	Thu Dec 16 23:28:34 2021

Master Calibration	
	Density
Magnesium	1.755 g/cc
Aluminum	2.670 g/cc
	Spine Angle = 73.06
	Size
	Far Detector
	Near Detector
	Reading
	3841.78
	5151.73 cps
	700.98
	3068.49 cps
	Density/Spine Ratio = 0.515

Small Ring	4.00	in	1.17
Large Ring	14.00	in	1.04

Compensated Neutron Calibration Report
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Serial-Model:	210-M&W
Source #:	N-1238
Master Calibration Performed:	Fri Dec 3 09:16:24 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:	103	
Tool Model:	M&W	
Performed:	Fri Dec 3 12:13:24 2021	
Calibrator Value:	500.0	GAPI
Background Reading:	28.0	cps
Calibrator Reading:	986.0	cps
Sensitivity:	0.5700	GAPI/cps

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	Well	Godfrey A 1-32
	Field	Unnamed
	County	Sheridan
	State	Kansas