



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Ritchie Exploration, Inc.		Company Ritchie Exploration, Inc.	
Well	Fischer 10A #1	Well	Fischer 10A #1
Field	Unnamed	Field	Unnamed
County	Ford	County	Ford
State	Kansas	State	Kansas
Location: API #: 15-057-21064-00-00		Other Services	
1934 FNL & 1777 FEL		CNL/CDL DIL/BHCS	
Permanent Datum	Ground Level	Elevation	2498
Log Measured From	Kelly Bushing	K.B.	2510
Drilling Measured From	Kelly Bushing	D.F.	2498
		G.L.	2498
SEC 10 TWP 26S RGE 24W			
Date	3/8/2022		
Run Number	One		
Depth Driller	5042		
Depth Logger	5043		
Bottom Logged Interval	5042		
Top Log Interval	3500		
Casing Driller	8.625 @ 313		
Casing Logger	306		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4200		
Density / Viscosity	9.3 50		
pH / Fluid Loss	11.0 6.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.5 @ 75		
Rmt @ Meas. Temp	.38 @ 75		
Rmc @ Meas. Temp	.68 @ 75		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.30 @ 126		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	126		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	John Goldsmith		

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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.

Jetmore Kansas
South to Horseshoe Rd, 1 West, 1/2 South,
West Into

Log Measured From: Kelly Bushing 12 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: John Goldsmith
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 5043

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 CNSSC	37.23 36.48		CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (303-03)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSI STKBL ML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00

CILM	4.50								
SP	0.20								
Dataset: ritchie_fischer_10a_1.db: field/well/stackml/pass4.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in									

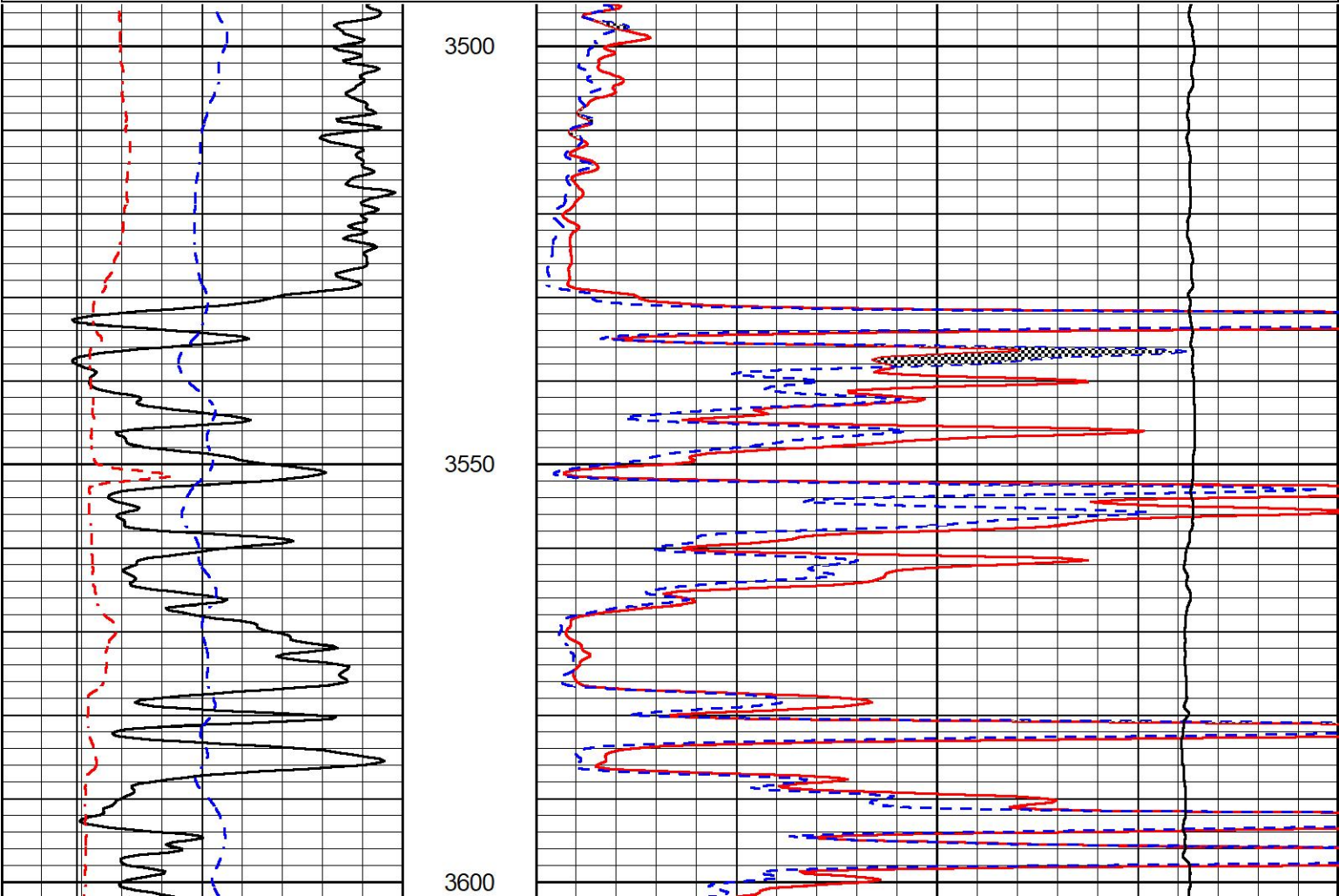


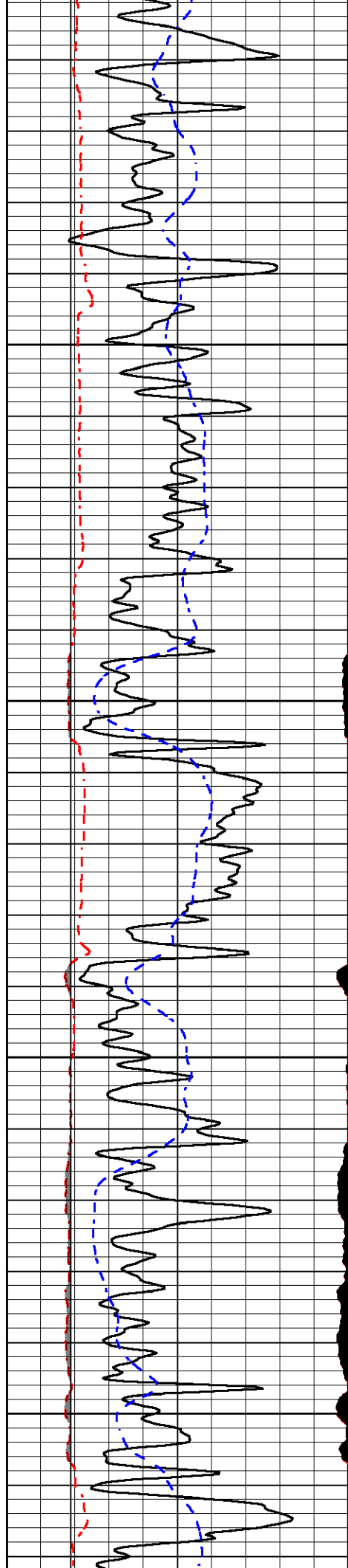
DETAIL SECTION

MAIN PASS

Database File	ritchie_fischer_10a_1.db
Dataset Pathname	stackml/pass4.1
Presentation Format	_micro
Dataset Creation	Tue Mar 08 23:20:11 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			



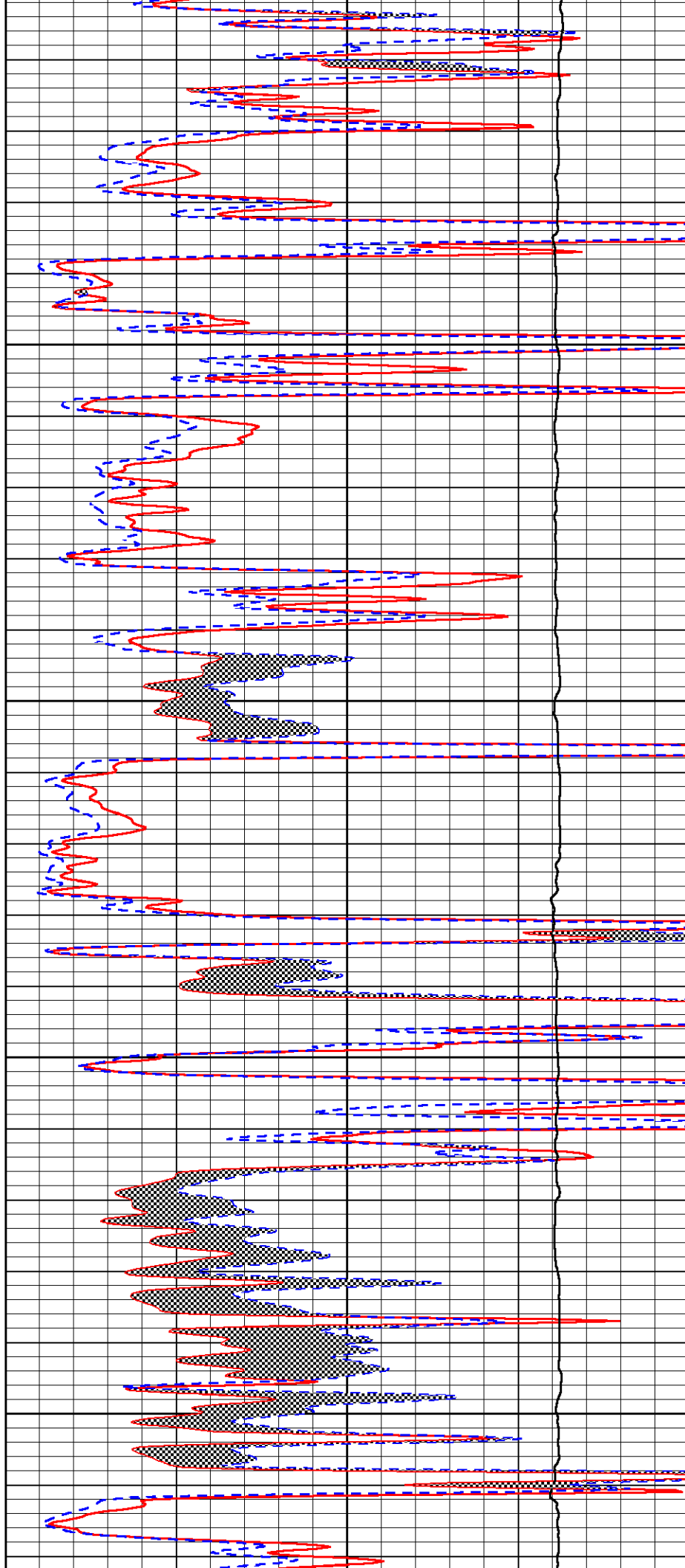


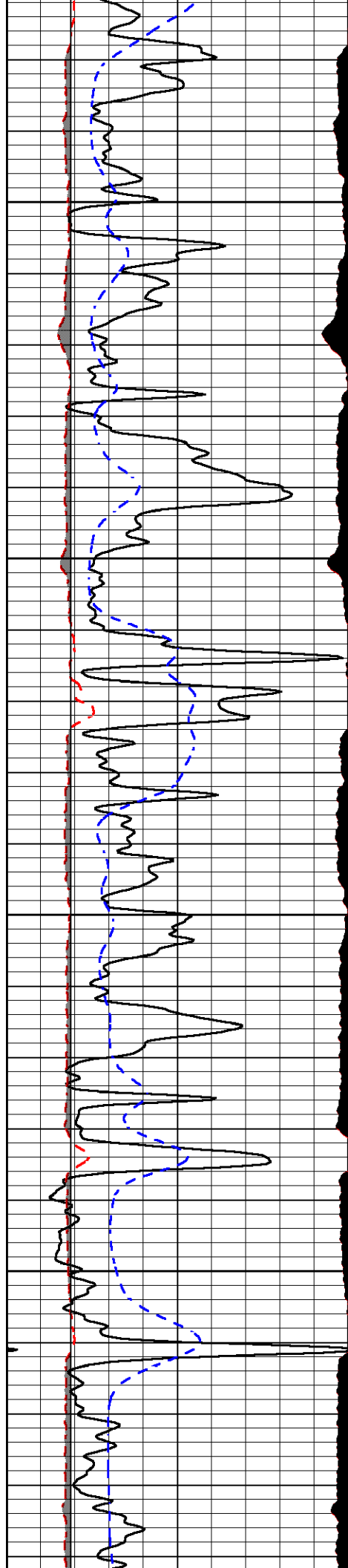
3650

3700

3750

3800



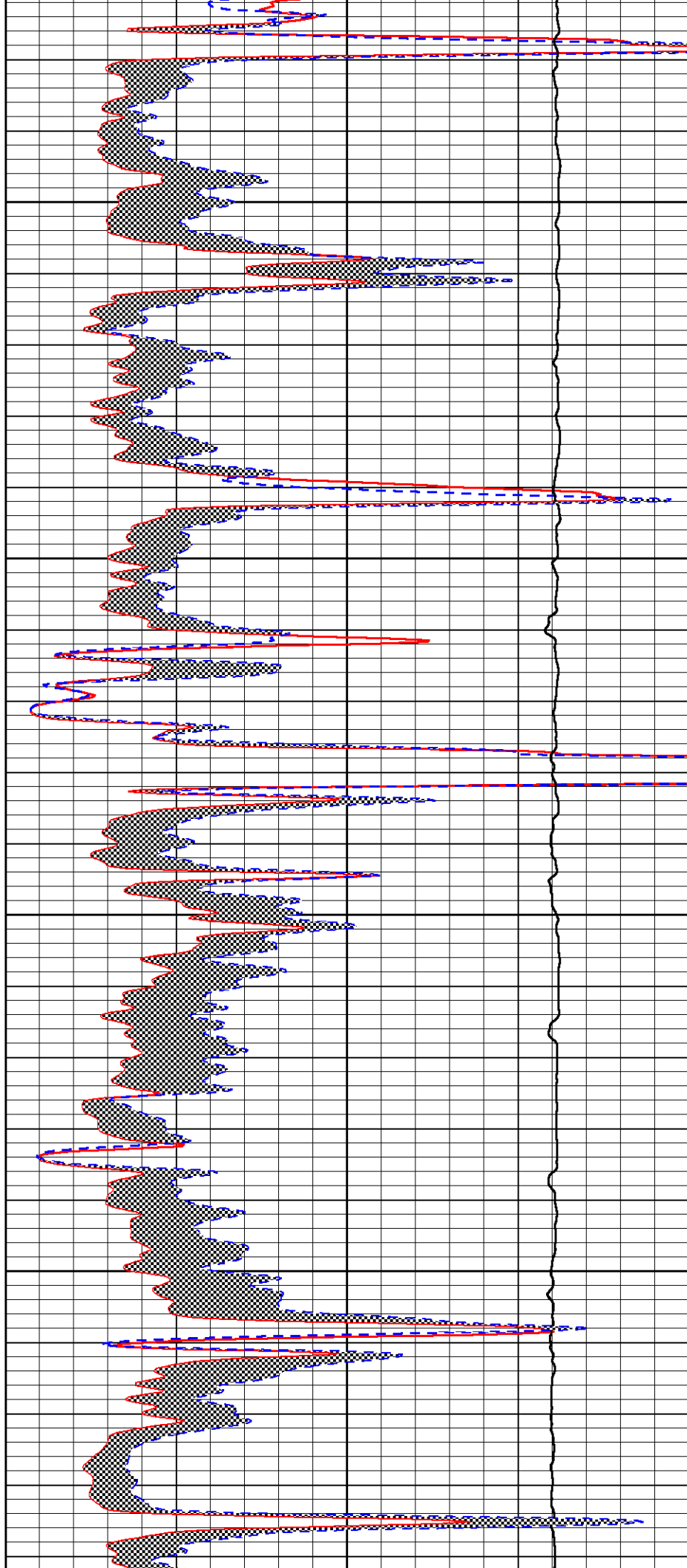


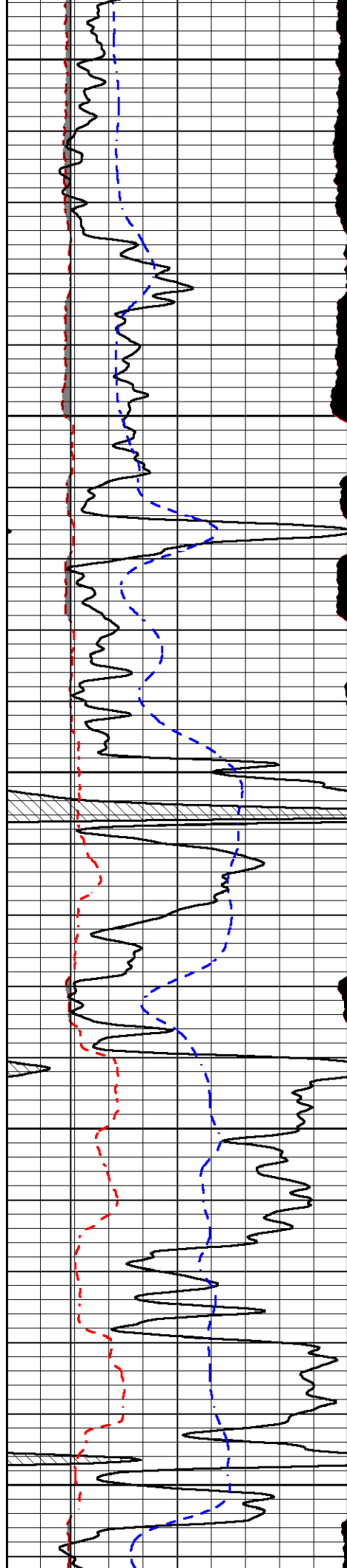
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3900

3950

4000





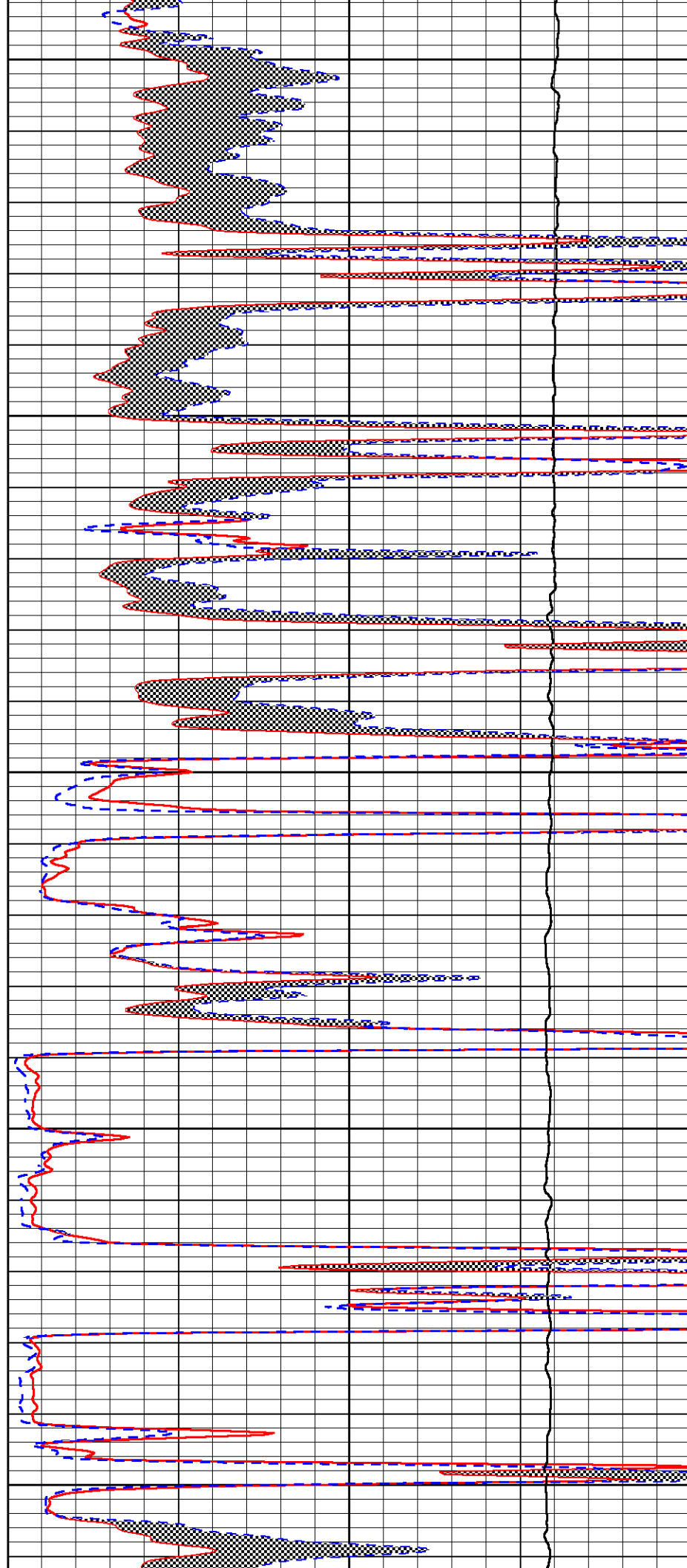
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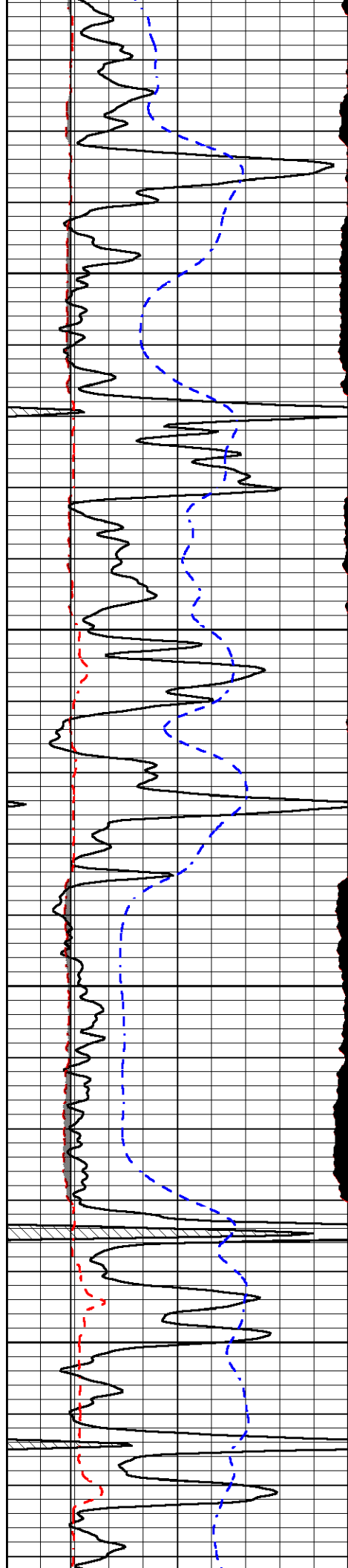
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4150

4200

4250



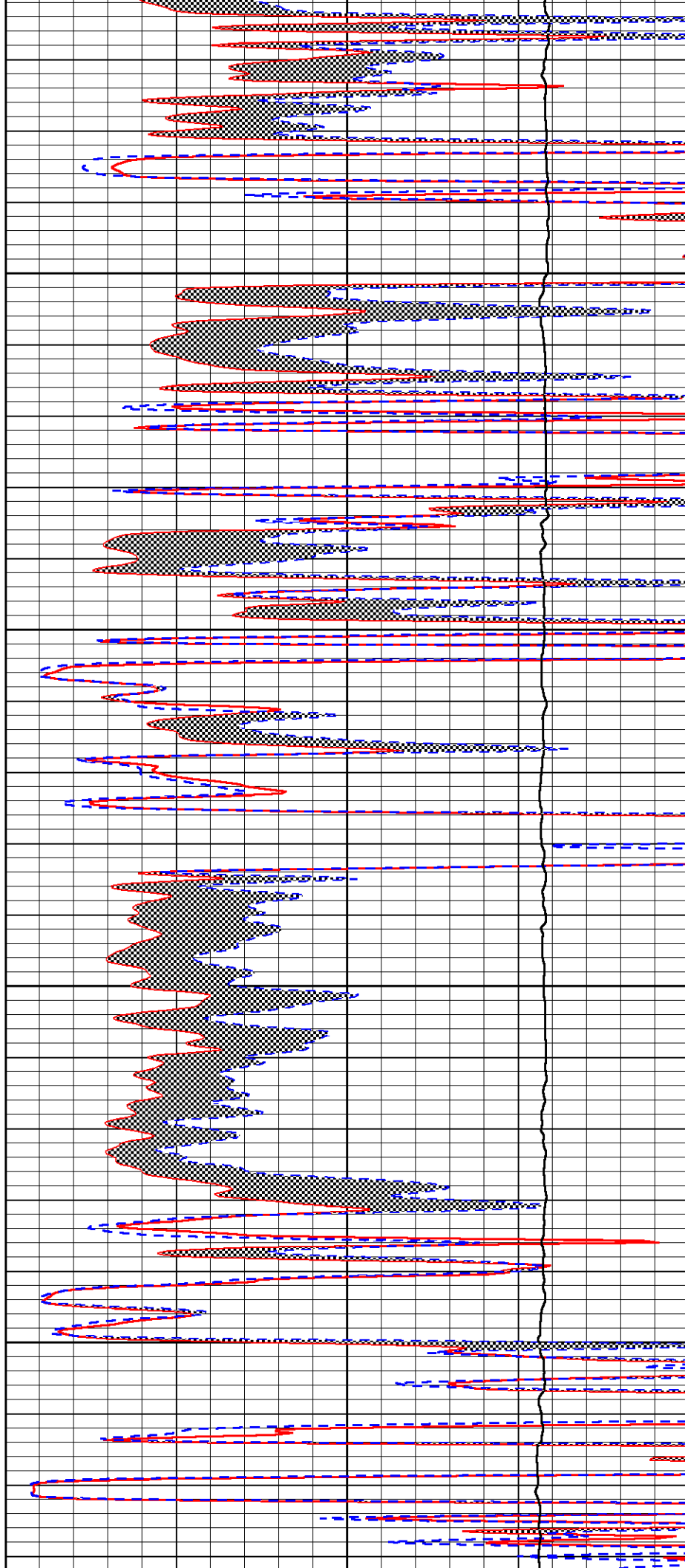


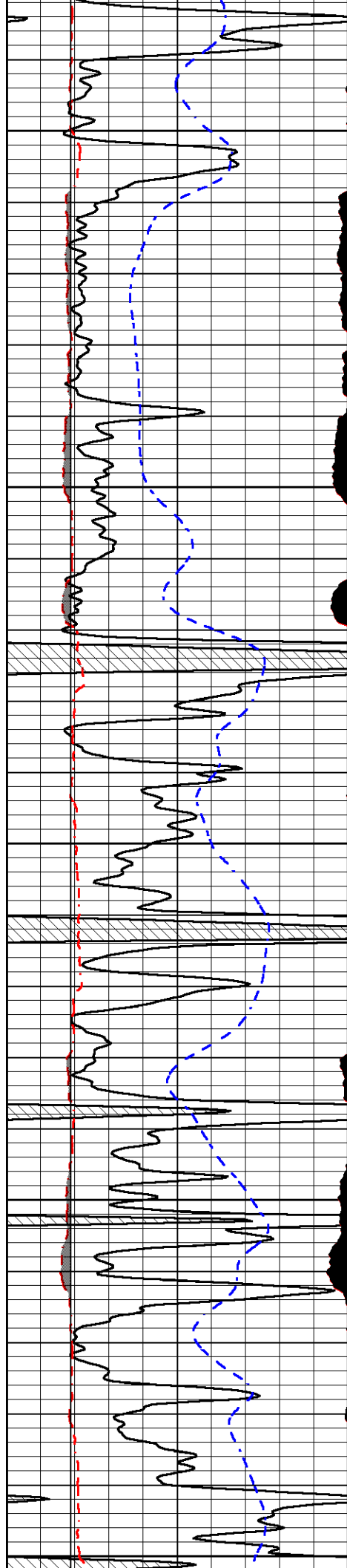
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4350

4400

4450





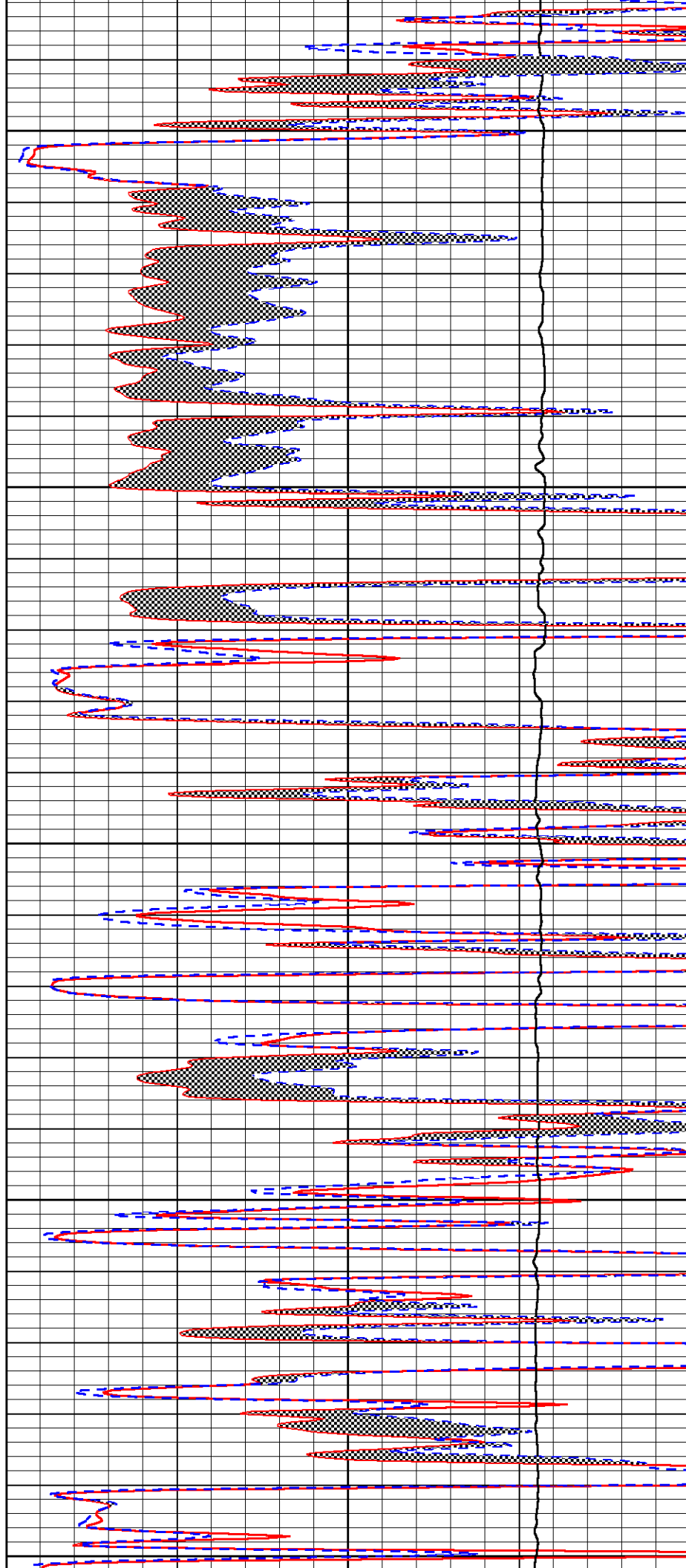
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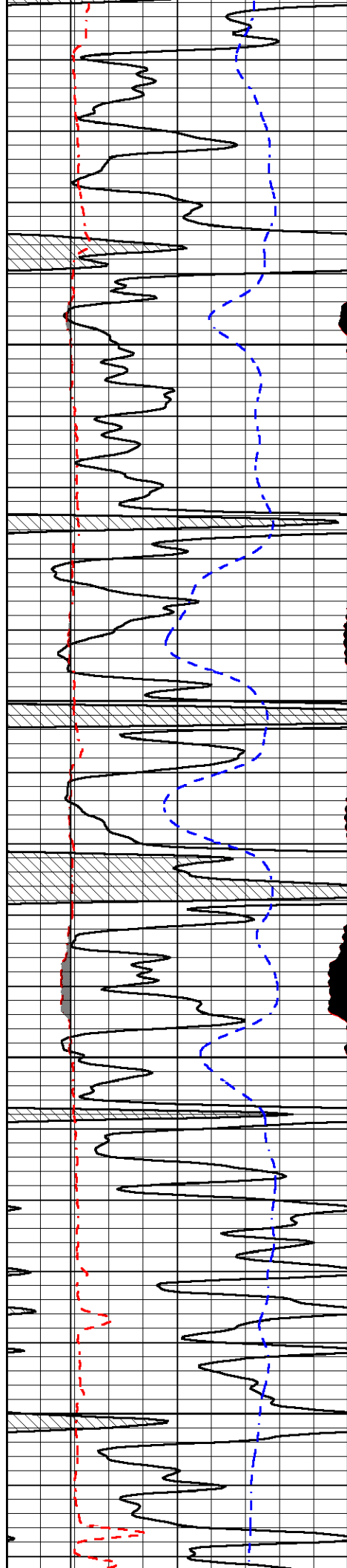
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4700



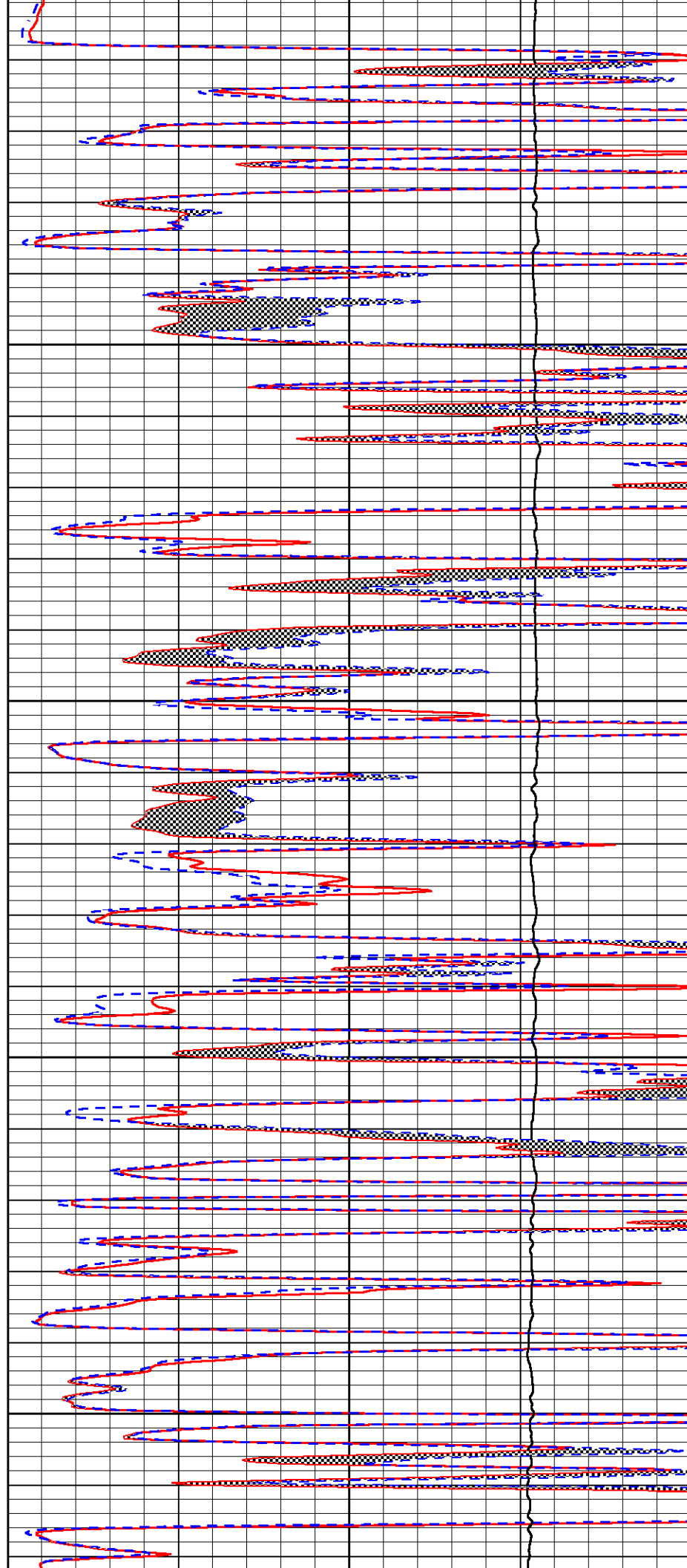


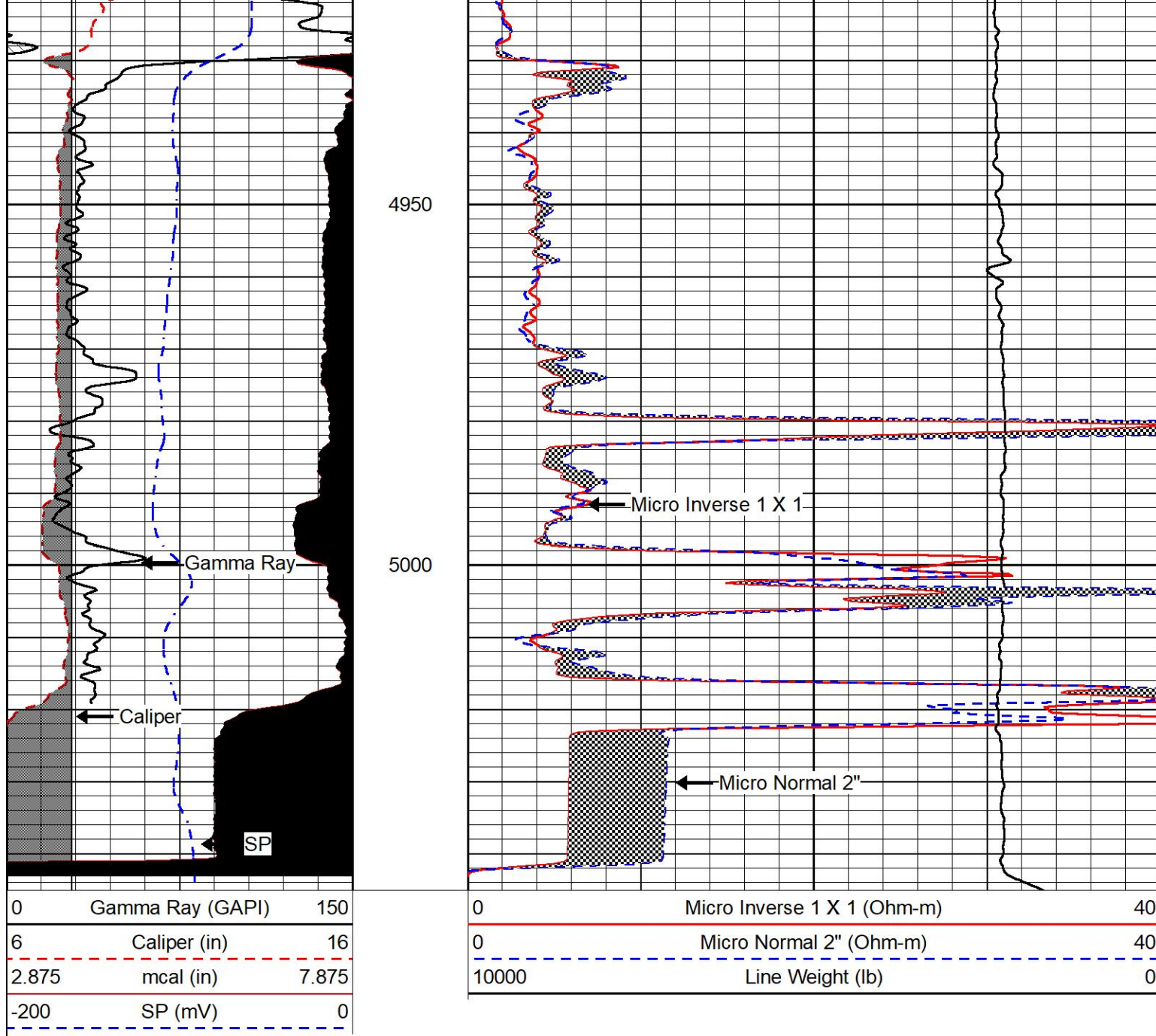
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4800

4850

4900



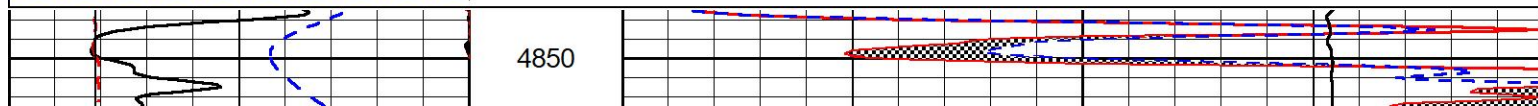
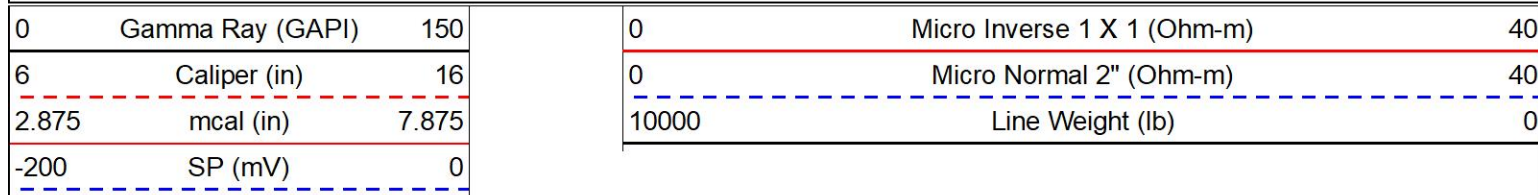


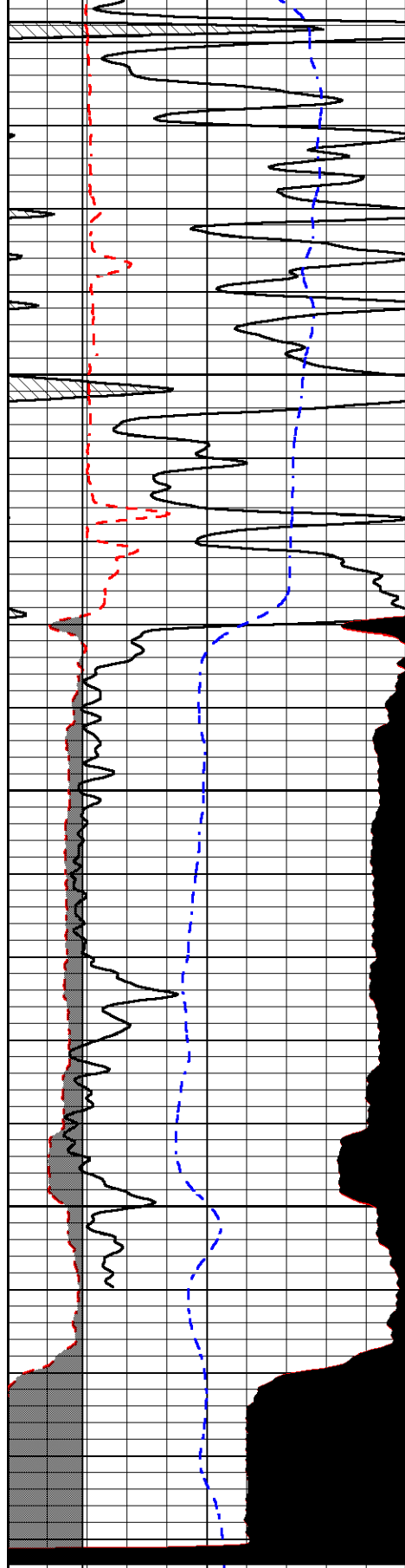
MIDWEST WIRELINE

REPEAT SECTION

REPEAT PASS

Database File ritchie_fischer_10a_1.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _micro
 Dataset Creation Tue Mar 08 23:13:05 2022
 Charted by Depth in Feet scaled 1:240



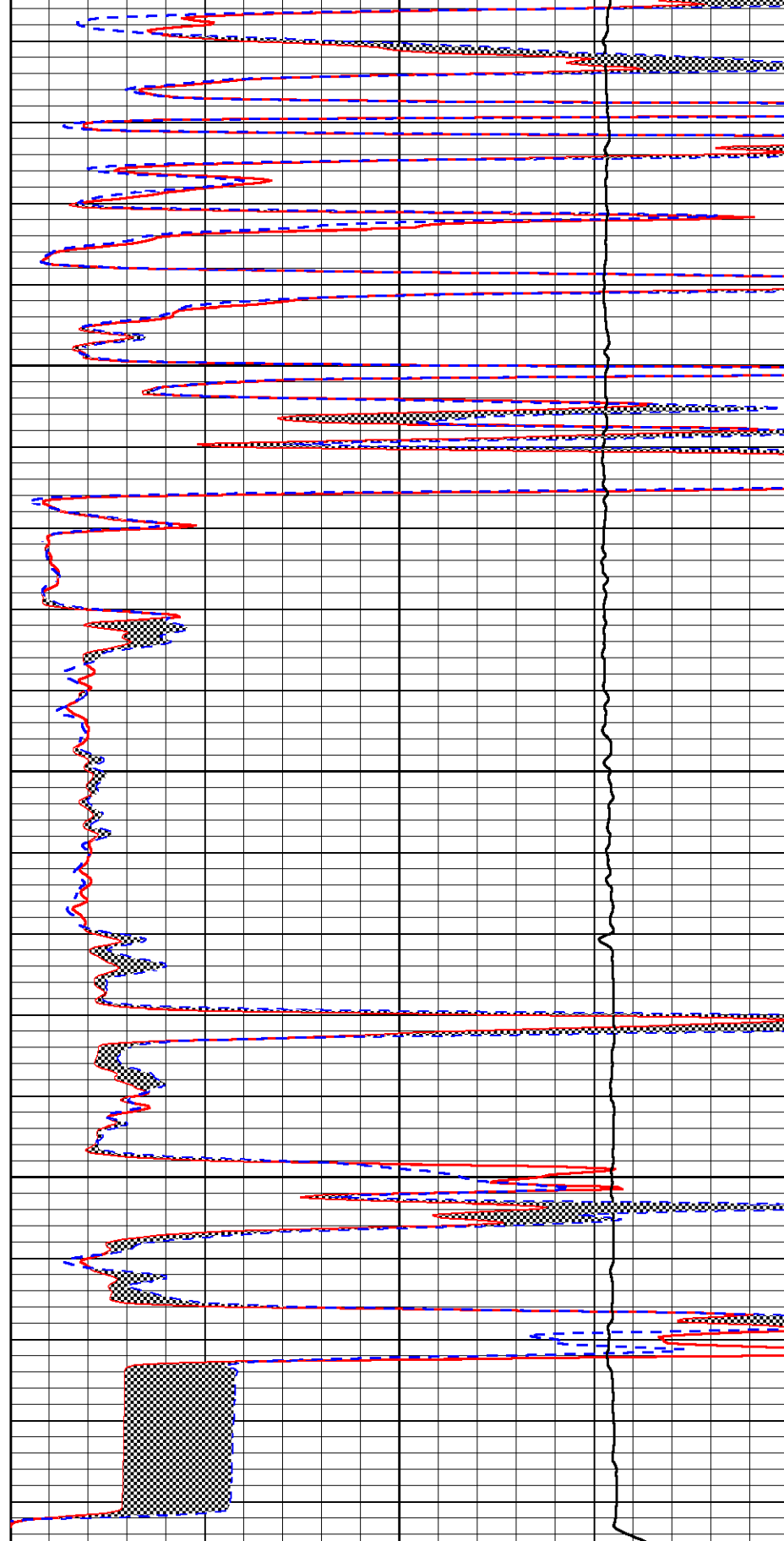


0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

4900

4950

5000



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

Database File	ritchie_fischer_10a_1.db
Dataset Pathname	stackml/pass4.1
Dataset Creation	Tue Mar 08 23:20:11 2022

Dual Induction Calibration Report							
Serial-Model: Surface Cal Performed:				504 HT-M&W 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	-19.000
Medium	161.982	1441.110		0.000	255.800 mmho/m	0.450	-45.500

Microlog Calibration Report							
Serial-Model: Performed:				402-PSI STKBL ML Thu Dec 16 22:29:48 2021			
		Readings		References		Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0037	0.0043		0.0000	10.0000 Ohm-m	13000.0000	-1.0000
Inverse	0.1208	0.0013		0.0000	10.0000 Ohm-m	10000.0000	0.0000
Caliper	1.0020	1.0834		5.5000	16.5000 in	135.1520	-131.2000

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

Master Calibration							
		Density		Far Detector		Near Detector	
Magnesium		1.755	g/cc	3841.78		5151.73	cps
Aluminum		2.670	g/cc	700.98		3068.49	cps
Spine Angle = 73.06				Density/Spine Ratio = 0.515			
		Size		Reading			
Small Ring		4.00	in	1.17			
Large Ring		14.00	in	1.05			

Compensated Neutron Calibration Report						
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



Company	Ritchie Exploration, Inc.
Well	Fischer 10A #1
Field	Unnamed
County	Ford
State	Kansas