



PIONEER

Pioneer Energy Services

MICRORESISTIVITY LOG

Company **BRISCOE PETROLEUM, LLC**

Well **TAMMY #1**

Field **GROENDYKE**

County **BARBER** State **KANSAS**

Location: API #: 15-007-24368-00-00

SEC 35 TWP 33S RGE 12W

Permanent Datum **GROUND LEVEL** Elevation **1580'**

Log Measured From **KELLY BUSHING**

Drilling Measured From **KELLY BUSHING**

Other Services

CNL/CDL
DIL/BHCS

Elevation
K.B. 1593'
D.F. N/A
G.L. 1580'

Date 6/28/2020

Run Number ONE

Depth Driller 5320'

Depth Logger 5319'

Bottom Logged Interval 5318'

Top Log Interval 3500'

Casing Driller 8.625" @ 237'

Casing Logger 236'

Bit Size 7.875"

Type Fluid in Hole CHEMICAL

Salinity, ppm CL 5000

Density / Viscosity 9.4 57

pH / Fluid Loss 11.0 8.8

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.40 @ 80

Rmt @ Meas. Temp 0.30 @ 80

Rmc @ Meas. Temp 0.54 @ 80

Source of Rmf / Rmc CHARTS

Rm @ BHT 0.25 @ 129

Operating Rig Time 5 HOURS

Max Rec. Temp. F 129

Equipment Number P-24

Location HAYS

Recorded By D. SCHMIDT

Witnessed By STEVE MURPHY

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All interpretations are opinions based on inferences from electrical or other measurements and Pioneer Wireline Services, LLC cannot and does not guarantee the accuracy or correctness of any interpretation, and Pioneer Wireline Services, 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.

MEDICINE LODGE,
SOUTH TO GERLANE, 2 3/4 WEST AND SOUTHWEST,
1/4 SOUTH INTO

Log Measured From: KELLY BUSHING 13 Ft. Above Permanent Datum

THANK YOU FOR USING PIONEER ENERGY SERVICES
www.pioneerenergy.com 785-625-3858

Your Pioneer Energy Services Crew

Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: STEVE MURPHY
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (233-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73			CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93			CDL-M&W (817-947)	8.50	4.00	250.00
ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics					7.58	4.00	65.00
MCAL MI MN	19.83 19.83 19.83						
RLL3F RLL3	15.80 15.80						
CILD	8.00			DIL-PSI HIGH TEMP (952-828)	18.50	3.50	220.00
CILM	4.70						
SP	0.20						
Dataset: briscoe_tammy 1.db: field/well/STKML/pass3.1 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\briscoe_tammy 1.db
Dataset field/well/STKML/pass3.4/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in	degF	in	in	g/cc	2	g/cc
	7.875	100	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	340	0		0

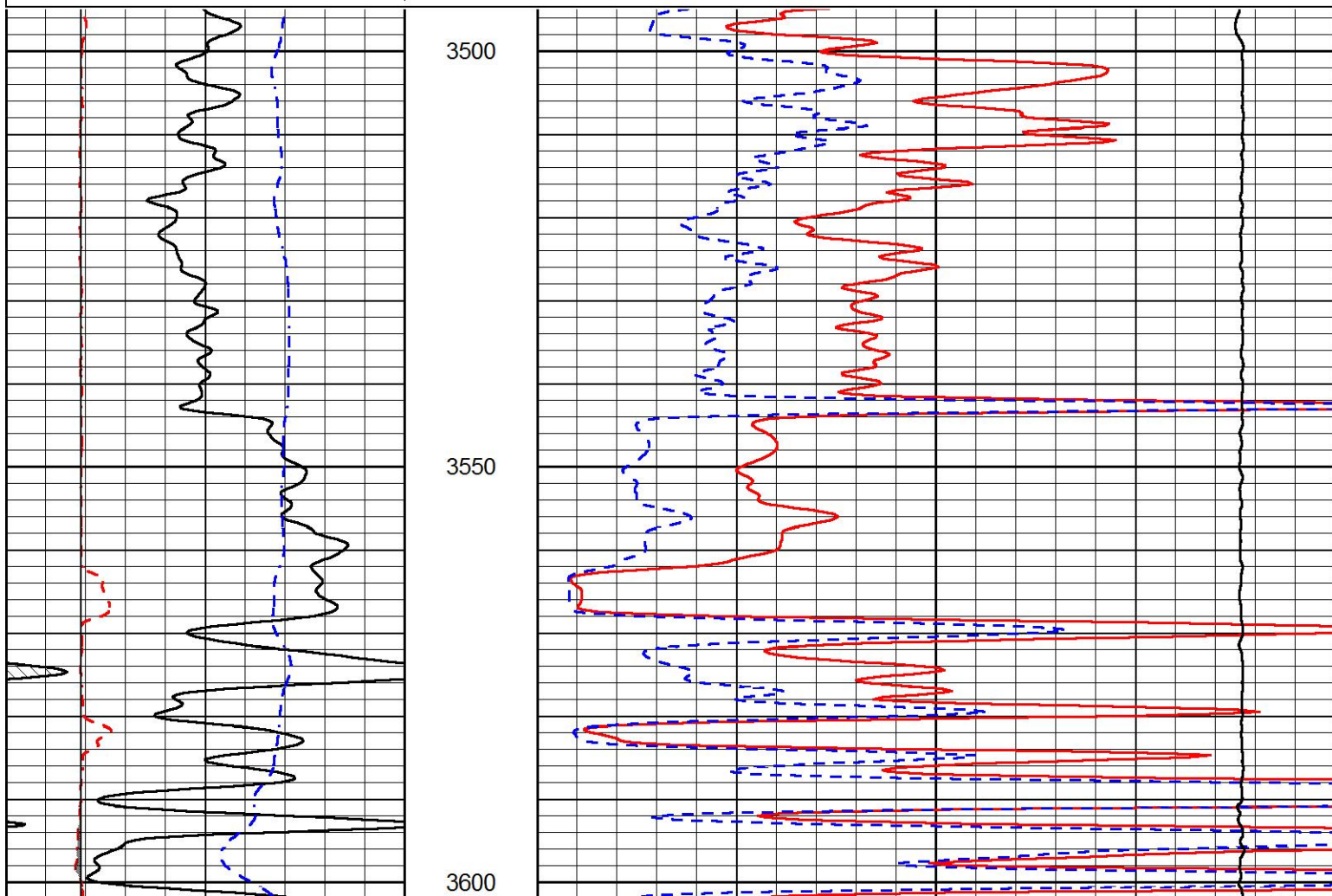


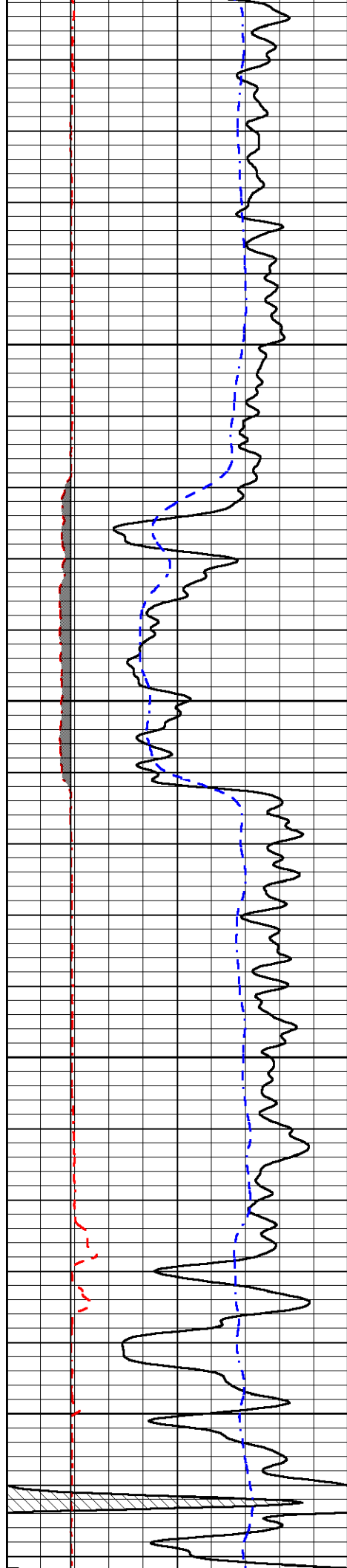
MAIN PASS

Database File briscoe_tammy 1.db
Dataset Pathname STKML/pass3.1
Presentation Format _micro
Dataset Creation Sun Jun 28 10:20:58 2020
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
6	Bit Size (in)	16
-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



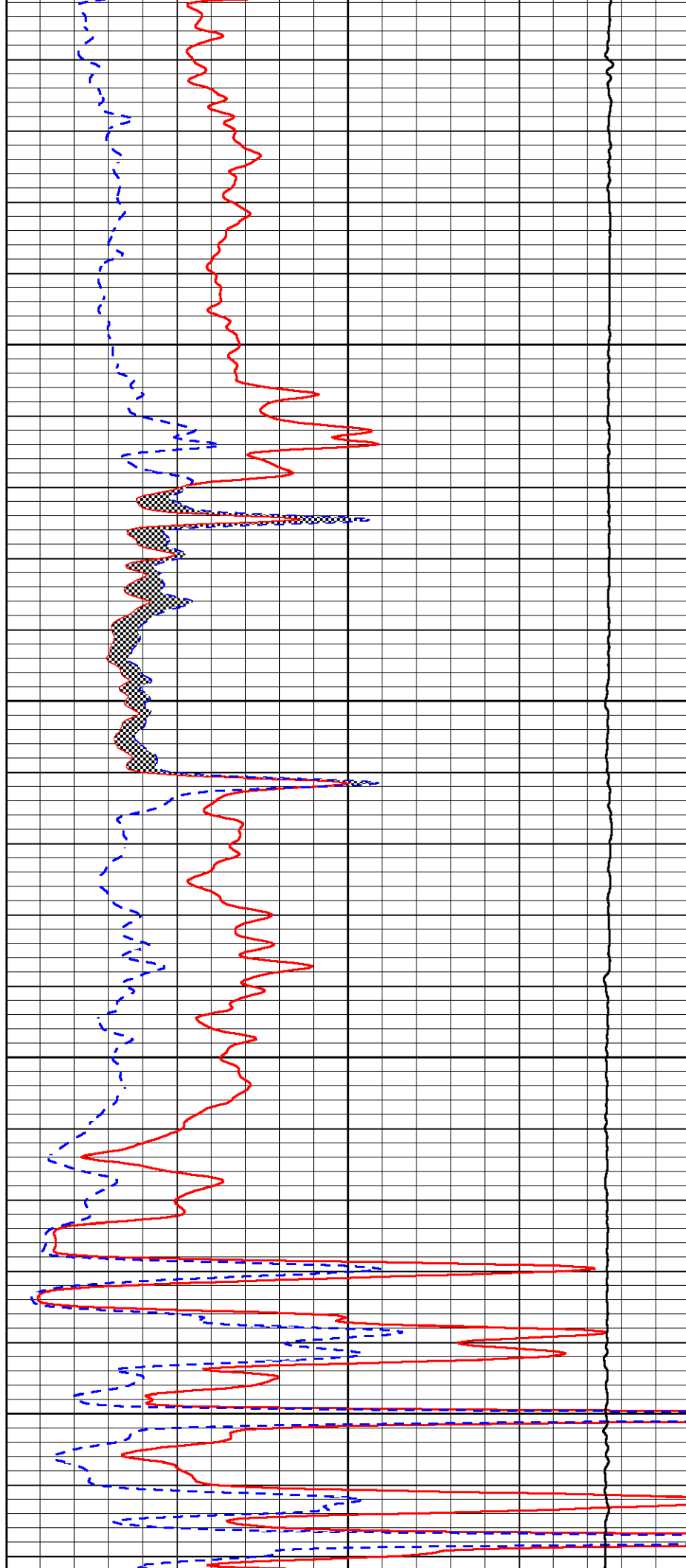


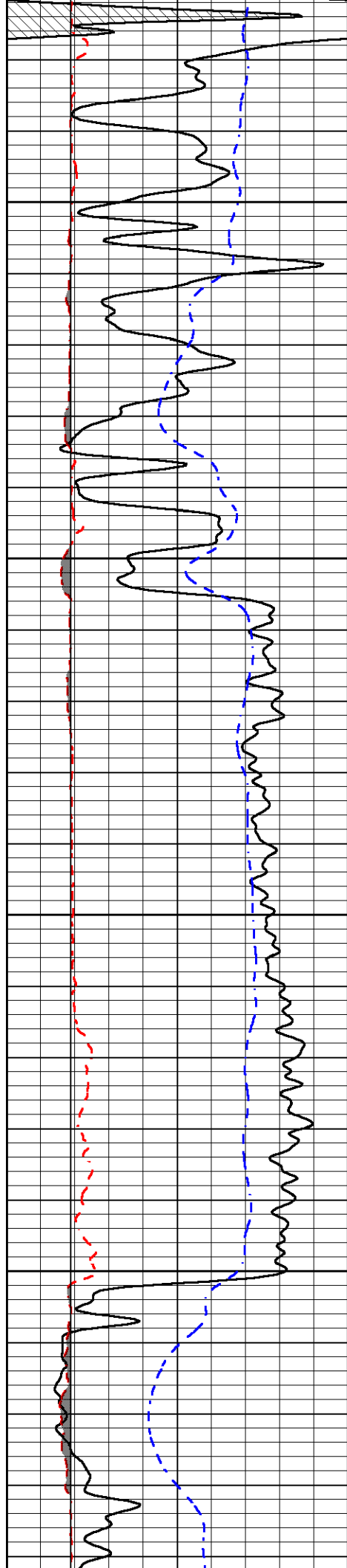
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3700

3750

3800



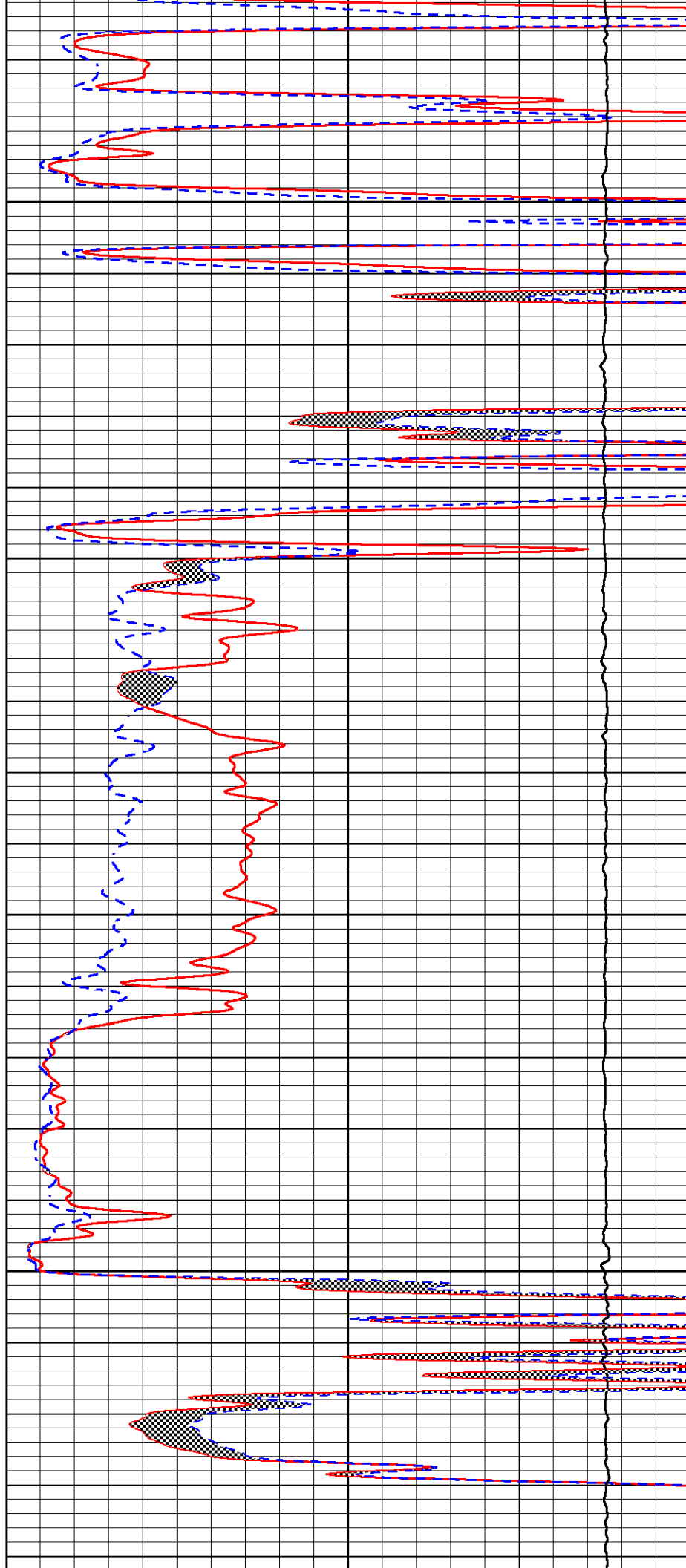


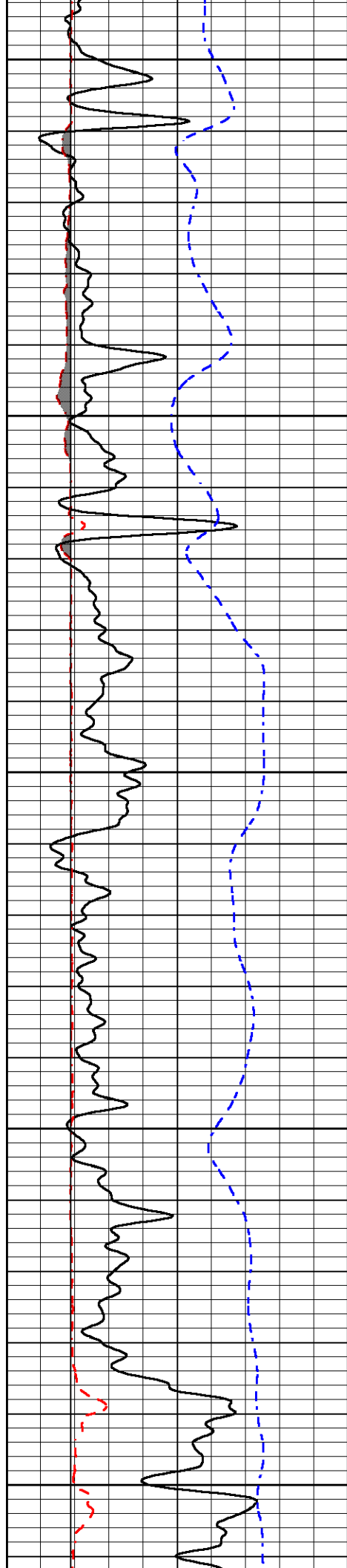
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3900

3950

4000





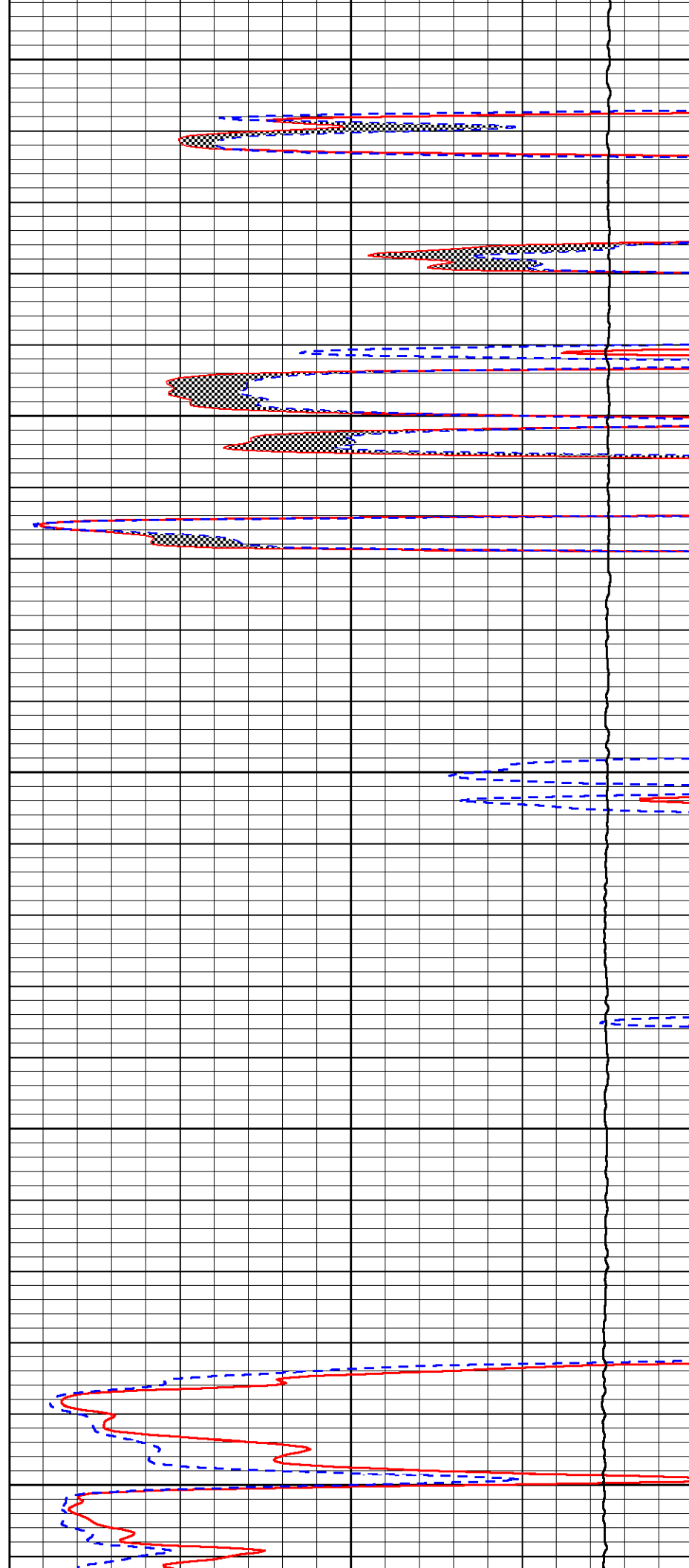
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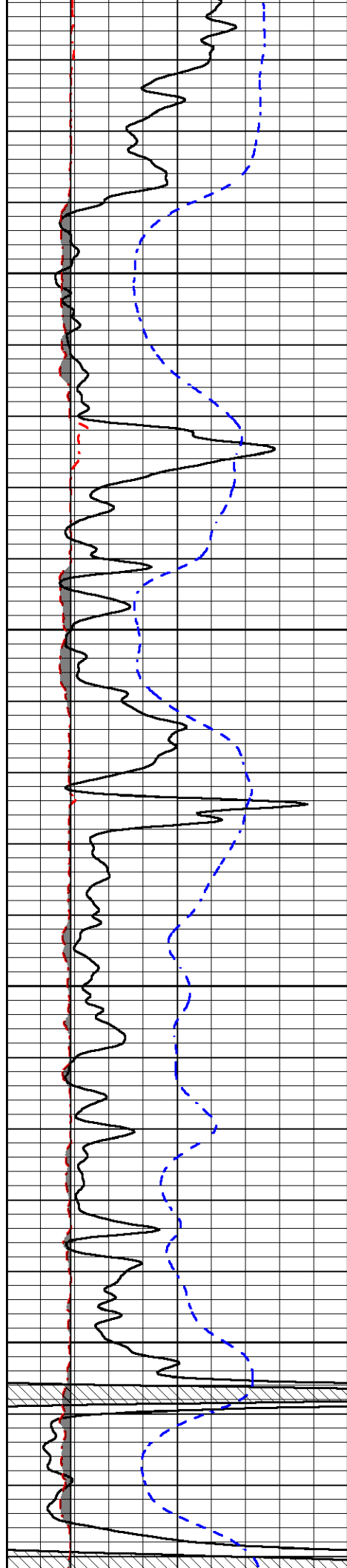
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4150

4200

4250



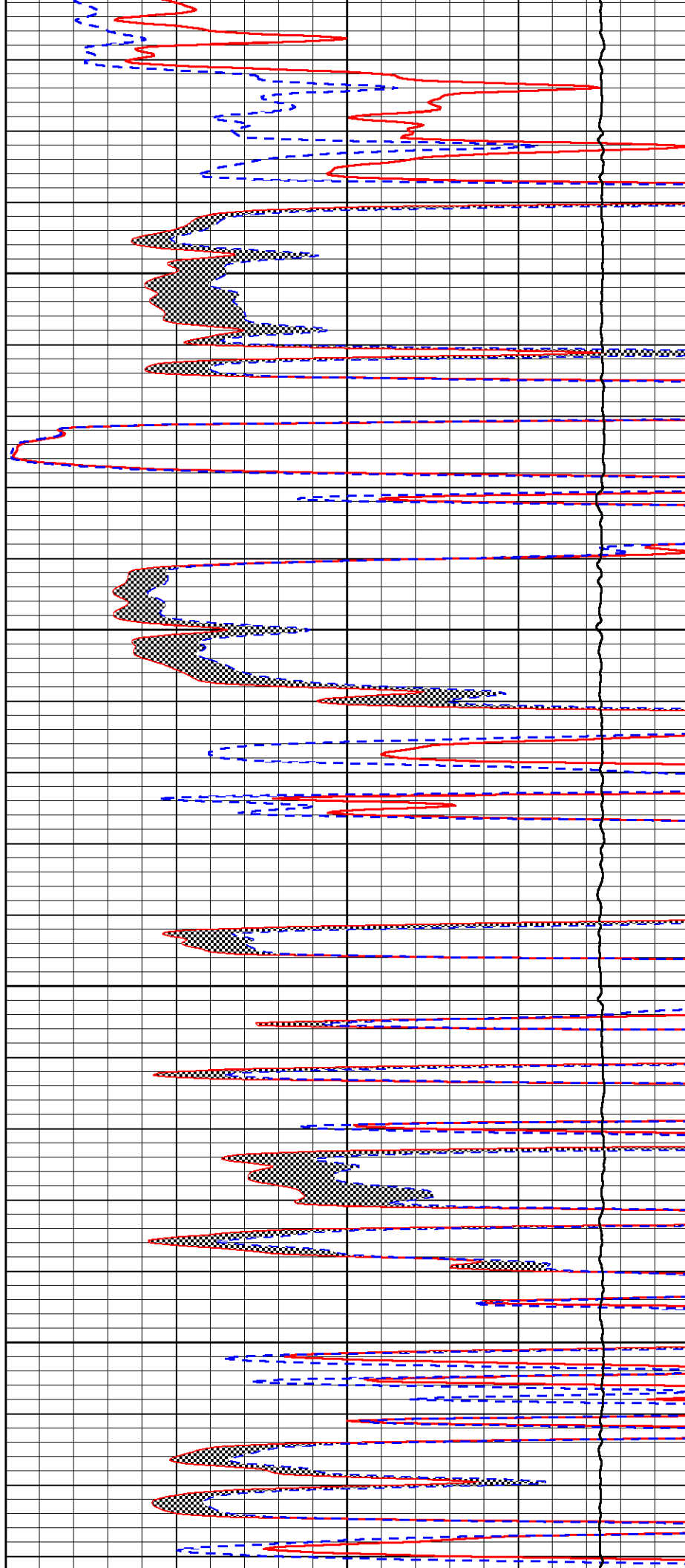


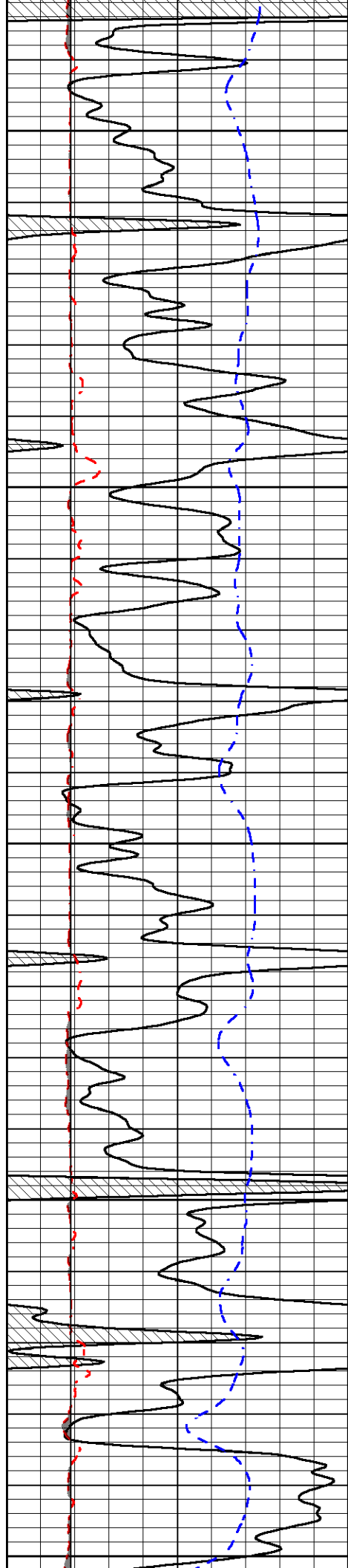
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4350

4400

4450





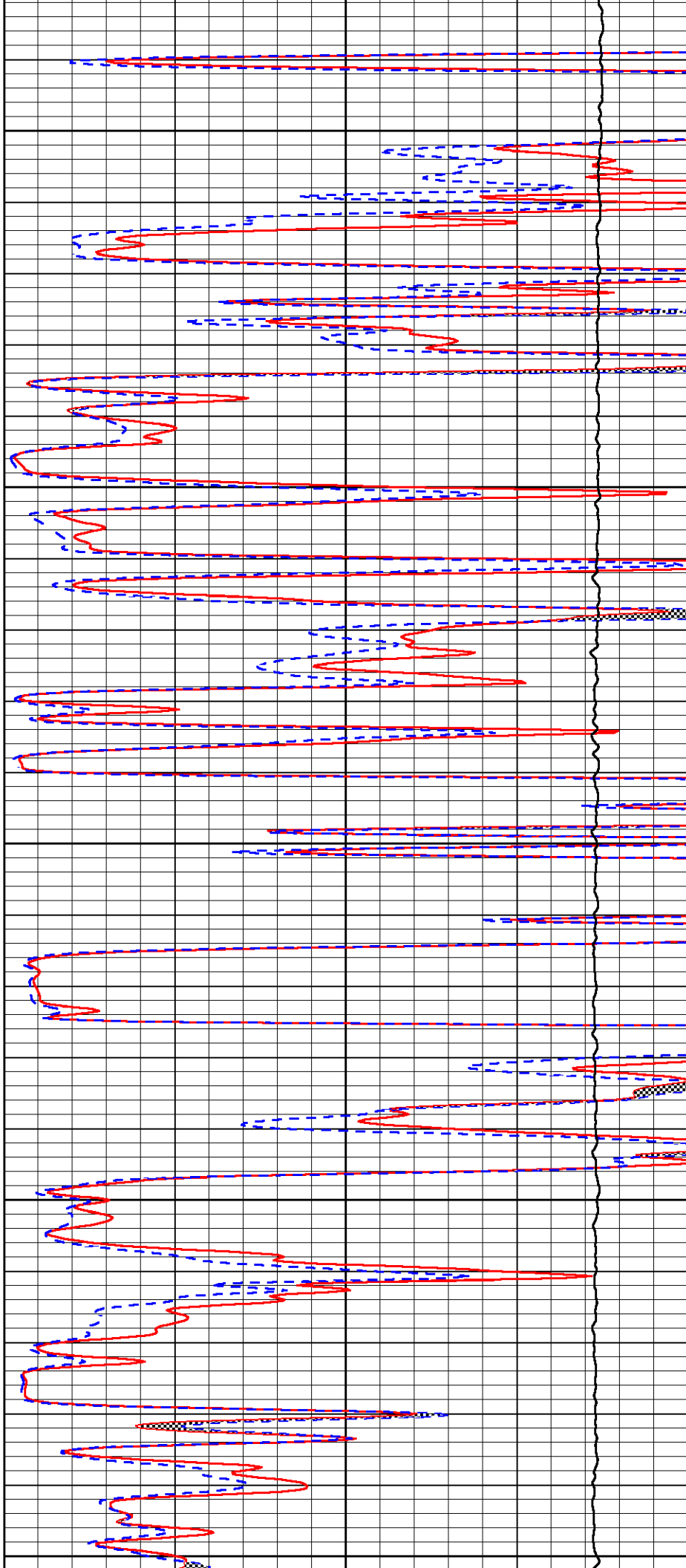
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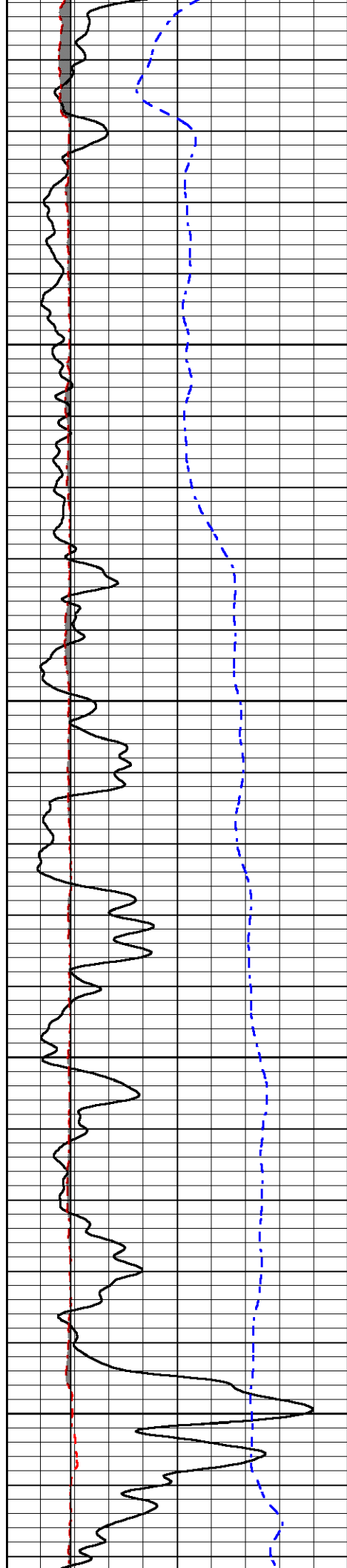
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4600

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4700



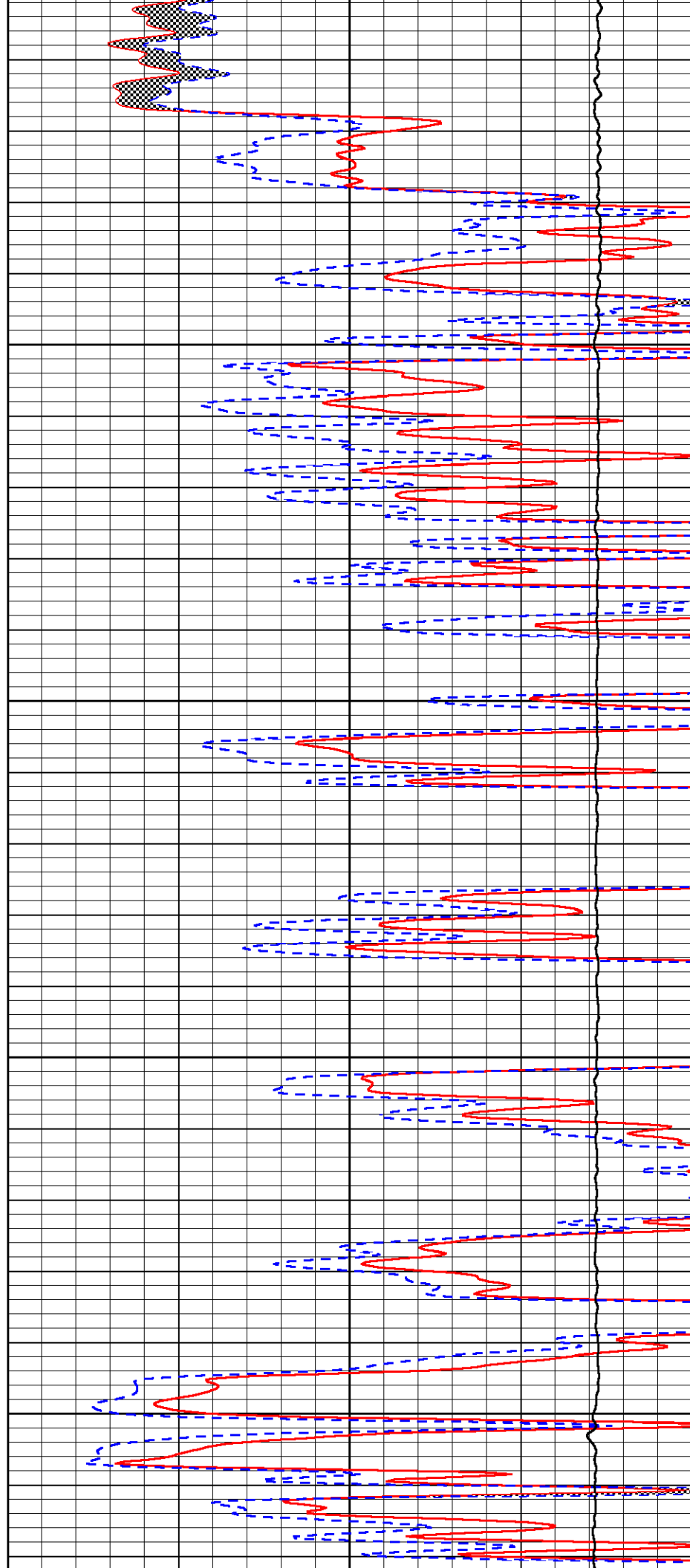


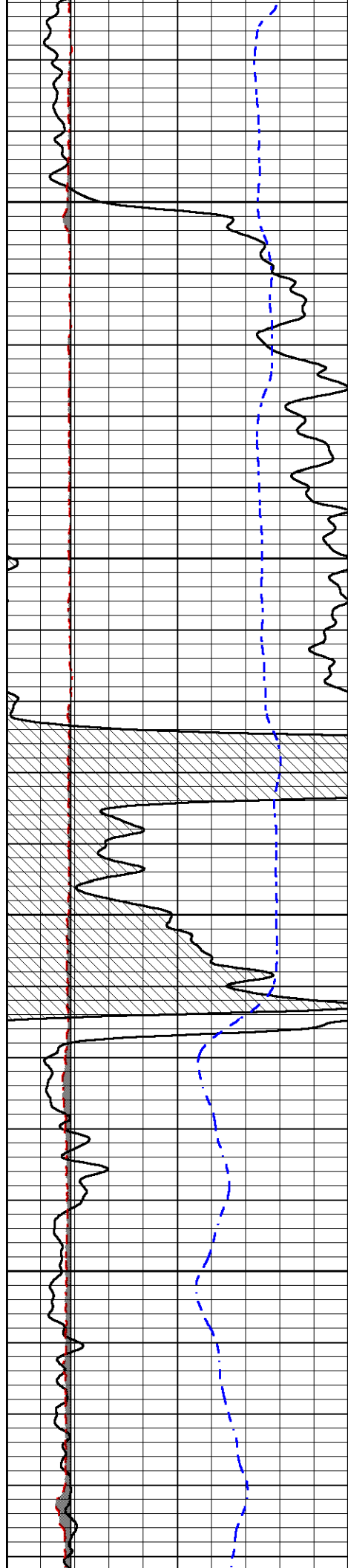
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4900



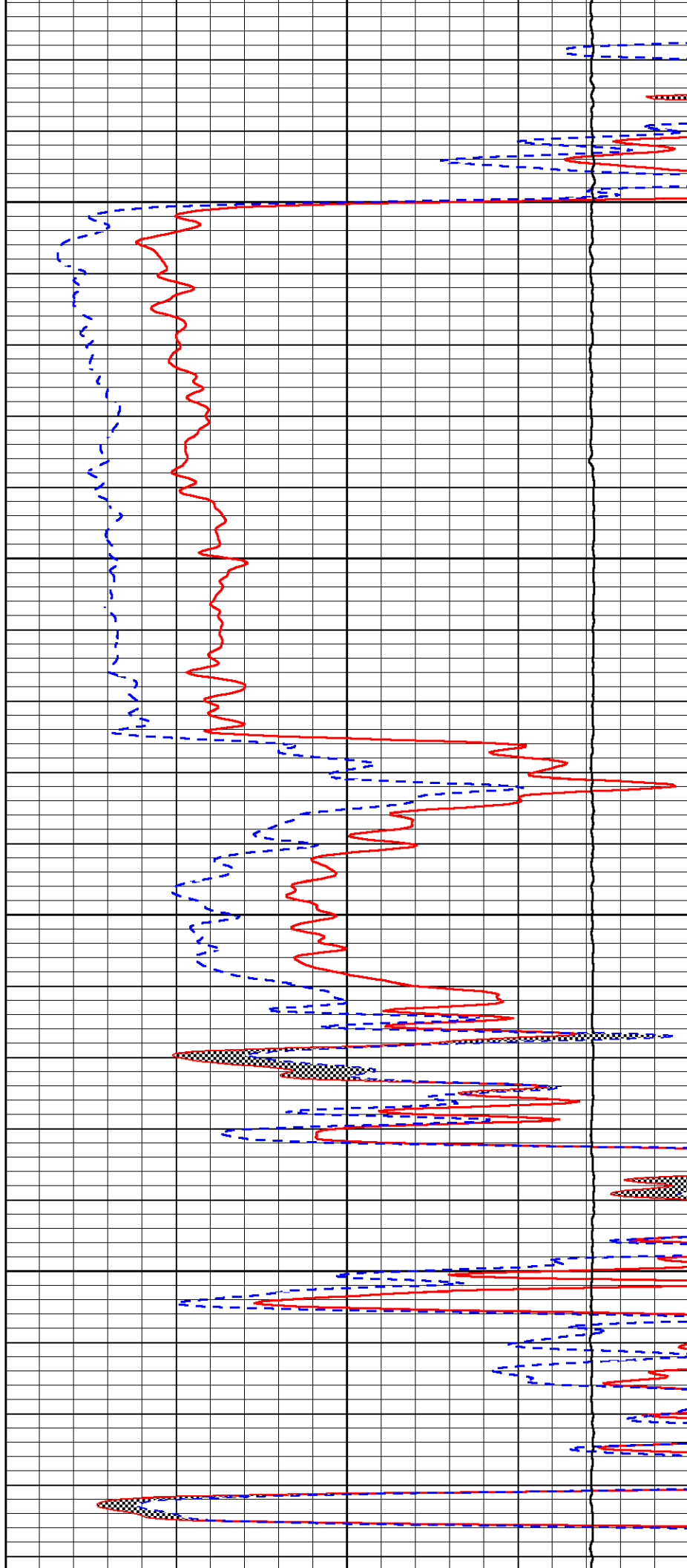


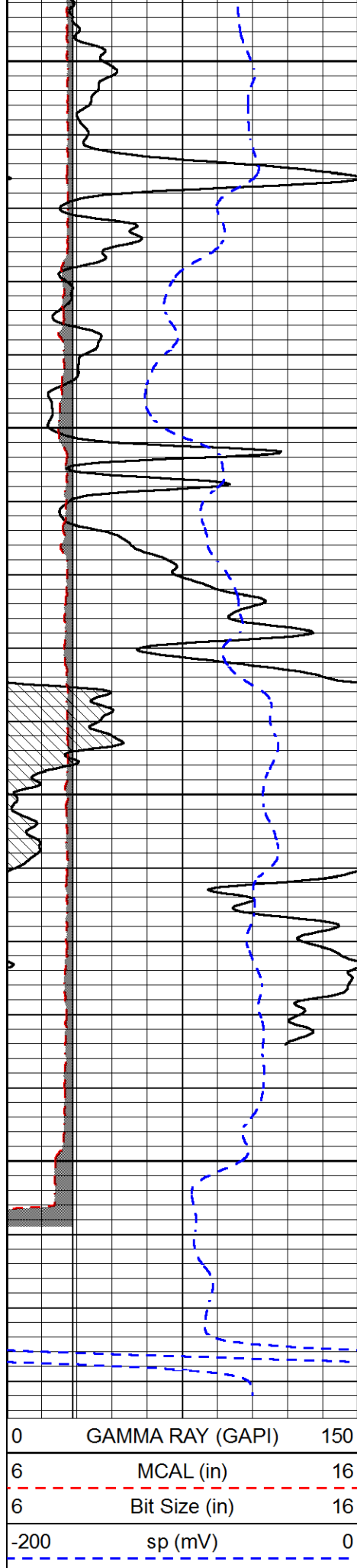
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5000

5050

5100



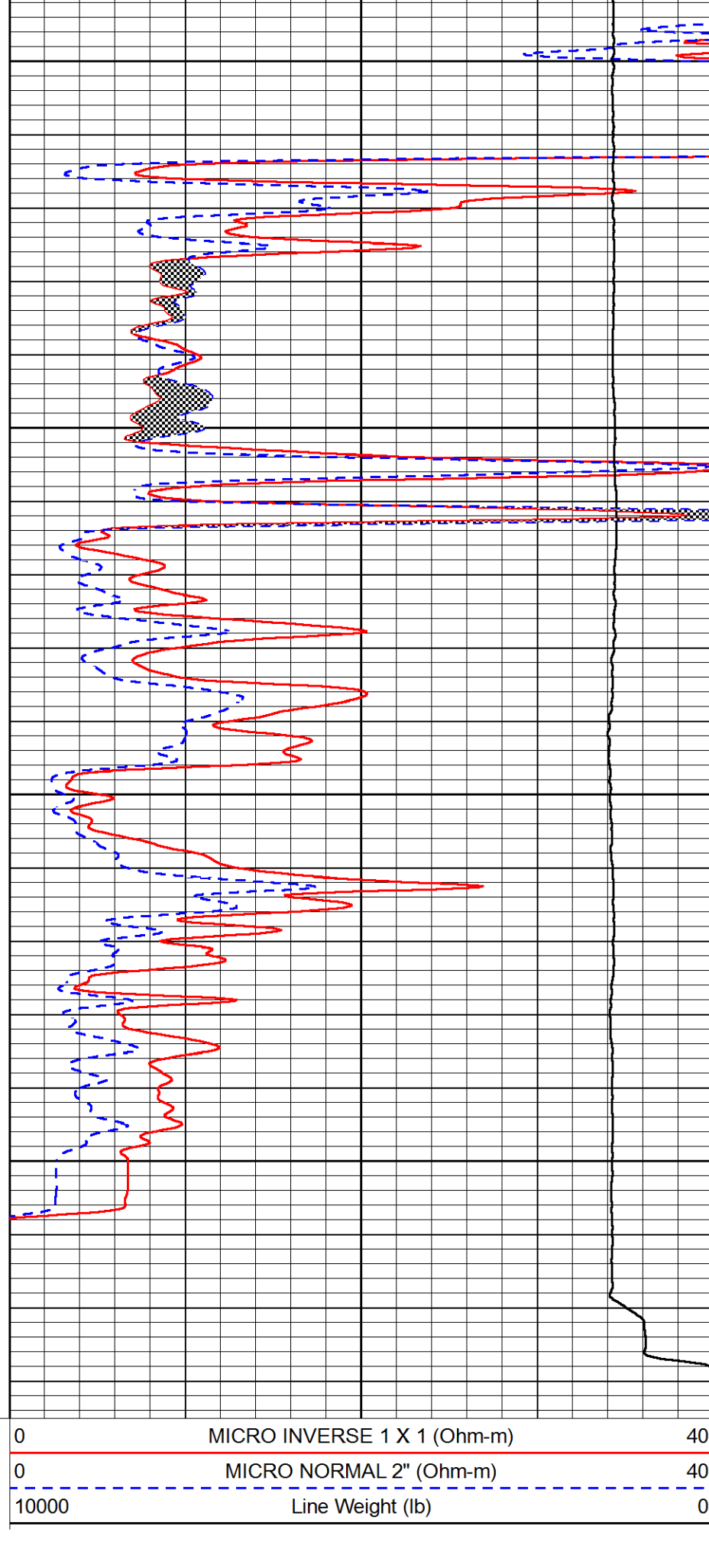


5150

5200

5250

5300



PIONEER

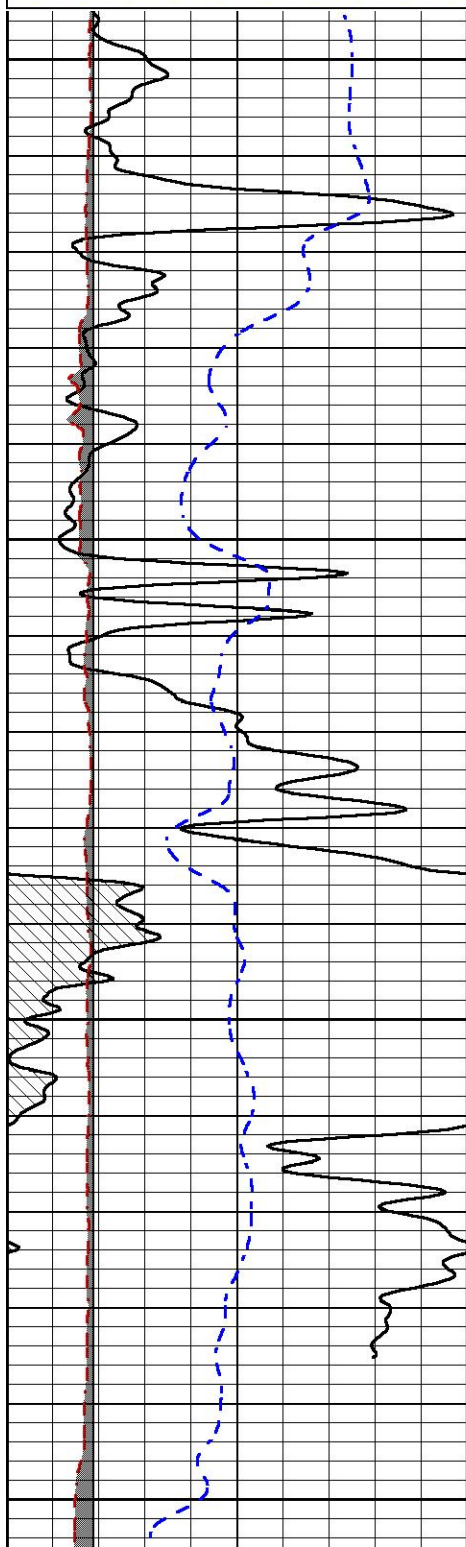
Pioneer Energy Services

REPEAT SECTION

Database File briscoe_tammy 1.db
Dataset Pathname STKML/pass2.2
Presentation Format _micro
Dataset Creation Sun Jun 28 10:09:46 2020
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
6	Bit Size (in)	16
-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

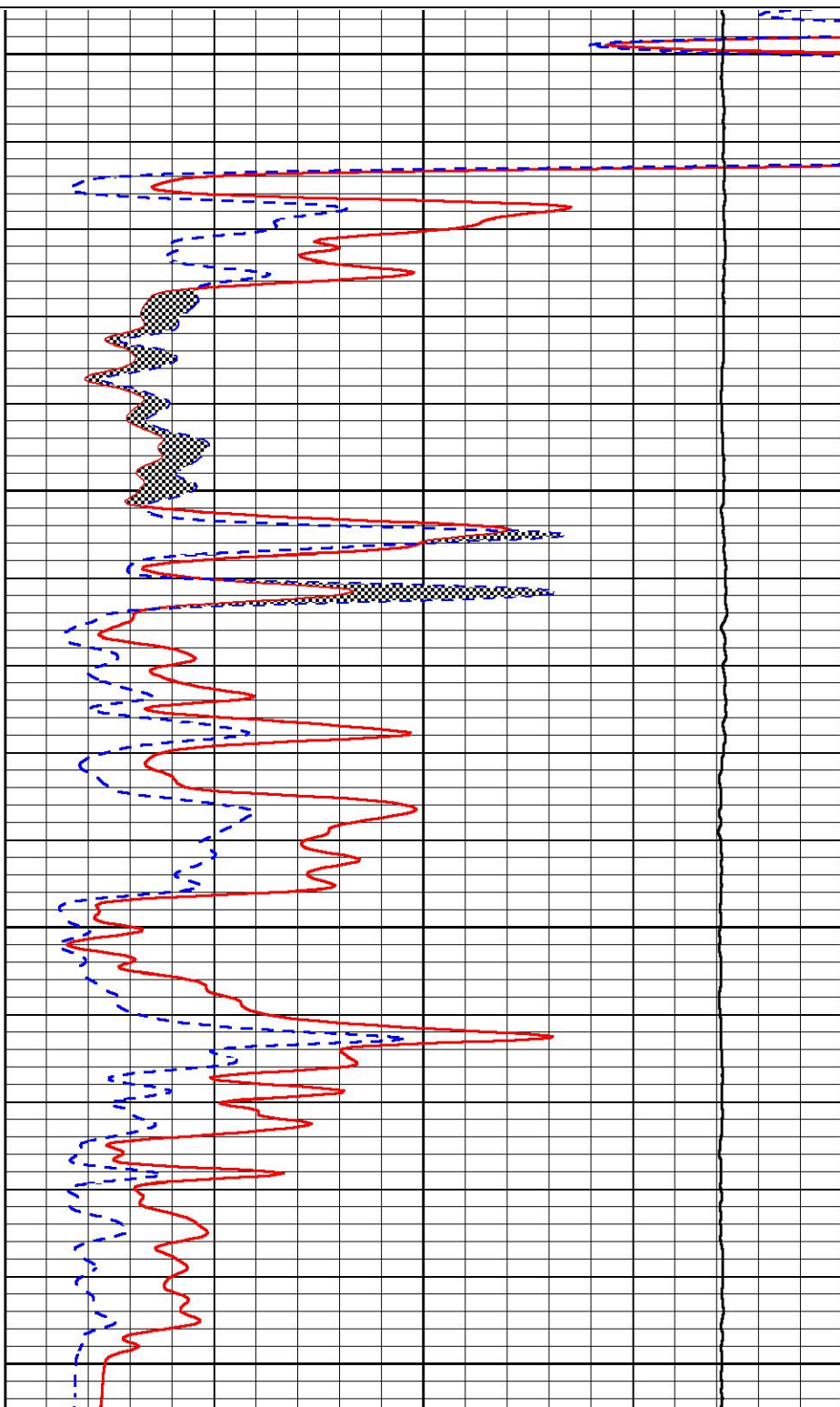


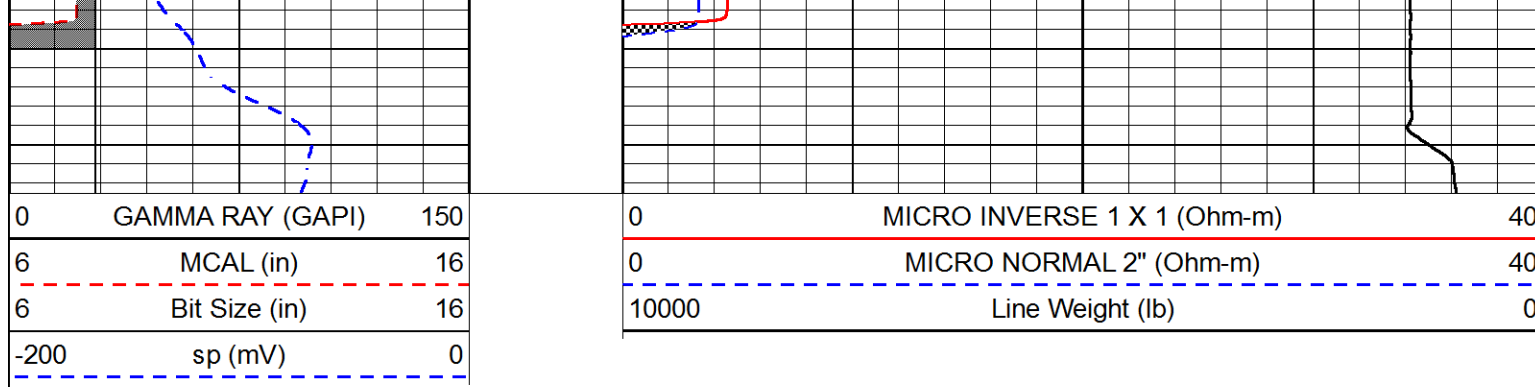
5150

5200

5250

5300





Calibration Report		
Database File	briscoe_tammy 1.db	
Dataset Pathname	STKML/pass3.4	
Dataset Creation	Sun Jun 28 09:44:39 2020	

Dual Induction Calibration Report

Serial-Model:	952-828-PSI HIGH TEMP
Calibration Performed:	Sun Jun 28 08:39:24 2020

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.455	-27.500
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.325	-25.500

Microlog Calibration Report

Serial-Model:	PSI-01-PSIML
Performed:	Tue Jun 16 01:32:04 2020

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-1.5000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	-1.3000
Caliper	1.0033	1.0841	5.0000	16.5000	in	142.3500	-138.5500

Compensated Density Calibration Report

Serial-Model:	817-947-M&W
Source / Verifier:	16955B / 2ci
Master Calibration Performed:	Tue Sep 24 21:18:50 2019

Master Calibration						
	Density			Far Detector	Near Detector	
Magnesium	1.755	g/cc		6127.15	5922.31	cps
Aluminum	2.680	g/cc		1141.85	3762.09	cps
Spine Angle = 74.89			Density/Spine Ratio = 0.532			
	Size			Reading		
Small Ring	4.50	in		1.02		
Large Ring	14.50	in		1.23		

Compensated Neutron Calibration Report

Serial Number: 207-MW
Tool Model: M&W
Calibration Performed: WED FEB 13 10:30:30 2019

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: 233-M&W
Tool Model: M&W
Calibration Performed: Fri Feb 07 01:42:40 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5500 GAPI/cps



Company BRISCOE PETROLEUM, LLC
Well TAMMY #1
Field GROENDYKE
County BARBER
State KANSAS