



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Ritchie Exploration, Inc.
Well #3 Frusher 9D
Field Sandpit North
County Hodgeman
State Kansas

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Location: API #: 15-083-21988-00-00

Other Services

SEC 9 NW SE SE
948' FSL & 1062' FEL
TWP 21S RGE 23W

CNL/CDL
DIL/BHCS

Permanent Datum Ground Level Elevation 2316'
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

K.B. 2321'
D.F.
G.L. 2316'

Date 6/13/2021

Run Number One

Depth Driller 4600'

Depth Logger 4602'

Bottom Logged Interval 4601'

Top Log Interval 3400'

Casing Driller 8.625" @ 252'

Casing Logger 252'

Bit Size 7.875"

Type Fluid in Hole Chemical

Salinity, ppm CL 9200

Density / Viscosity 9.05 55

pH / Fluid Loss 10.0 12.4

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.75 @ 74

Rmf @ Meas. Temp 0.56 @ 74

Rmc @ Meas. Temp 1.01 @ 74

Source of Rmf / Rmc CHARTS

Rm @ BHT 0.45 @ 122

Operating Rig Time 4.5 Hours

Max Rec. Temp. F 122 Deg F

Equipment Number P-24

Location HAYS

Recorded By T. Martin

Witnessed By Kent Matson

<<< Fold Here >>>

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, KS, 9 N to V Rd, 3 E, 1 N, NW 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: T. Martin
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Kent Matson
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\ritchie_#3 frusher 9d.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	No	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	580	70		4602

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



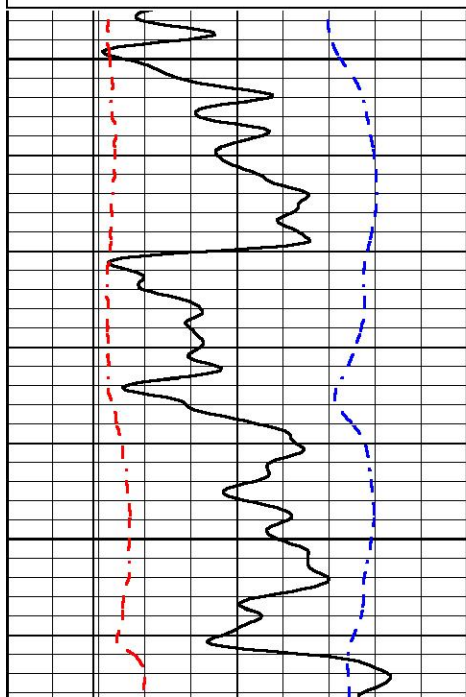
DETAIL SECTION

MAIN PASS

Database File ritchie_#3 frusher 9d.db
Dataset Pathname StkMI/pass3.1
Presentation Format _micro
Dataset Creation Sun Jun 13 09:46:34 2021
Charted by Depth in Feet scaled 1:240

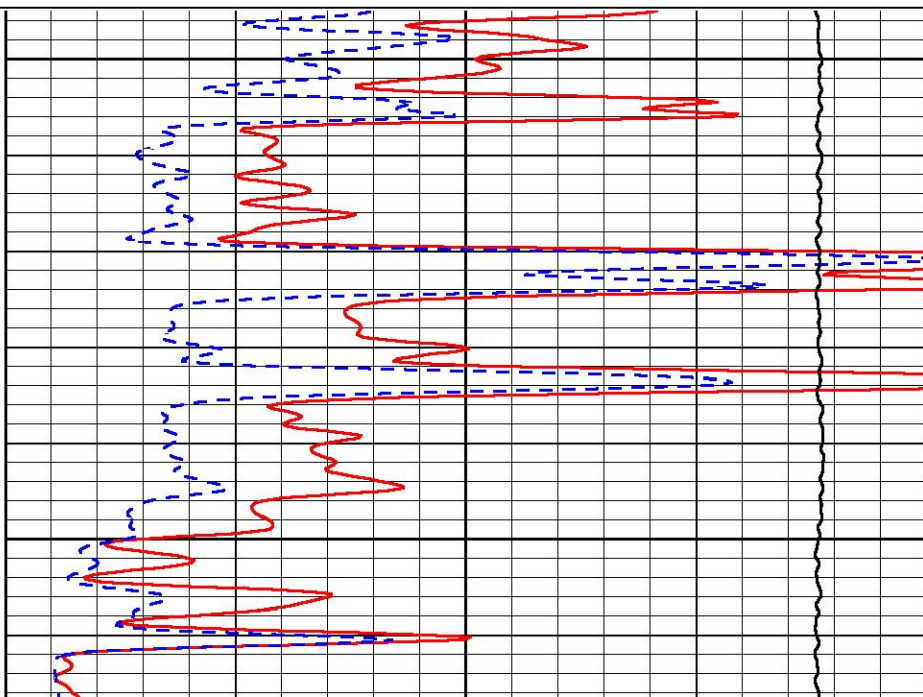
0	GAMMA RAY (GAPI)	150
6	MCAL (in)	16
6	Bit Size (in)	16
-200	sp (mV)	0

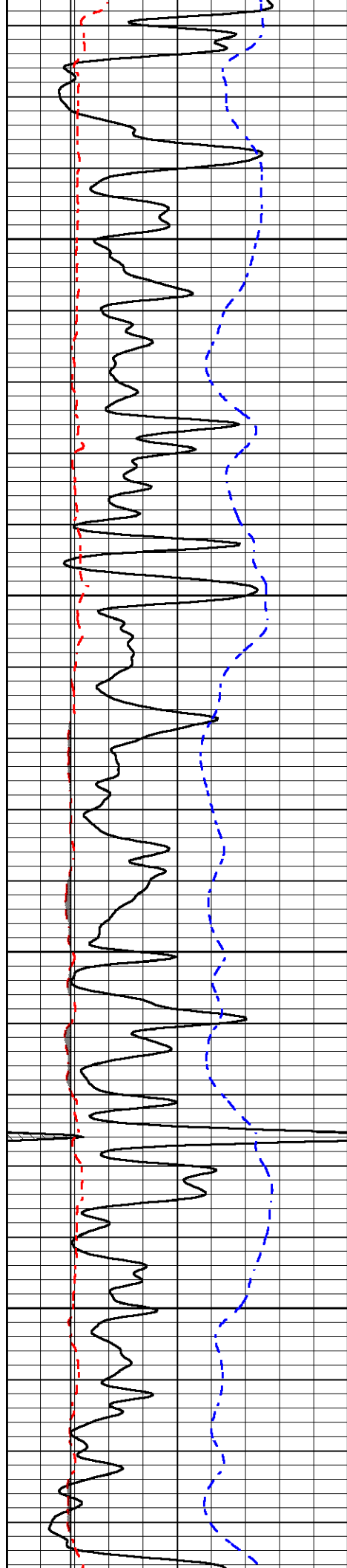
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3400

3450



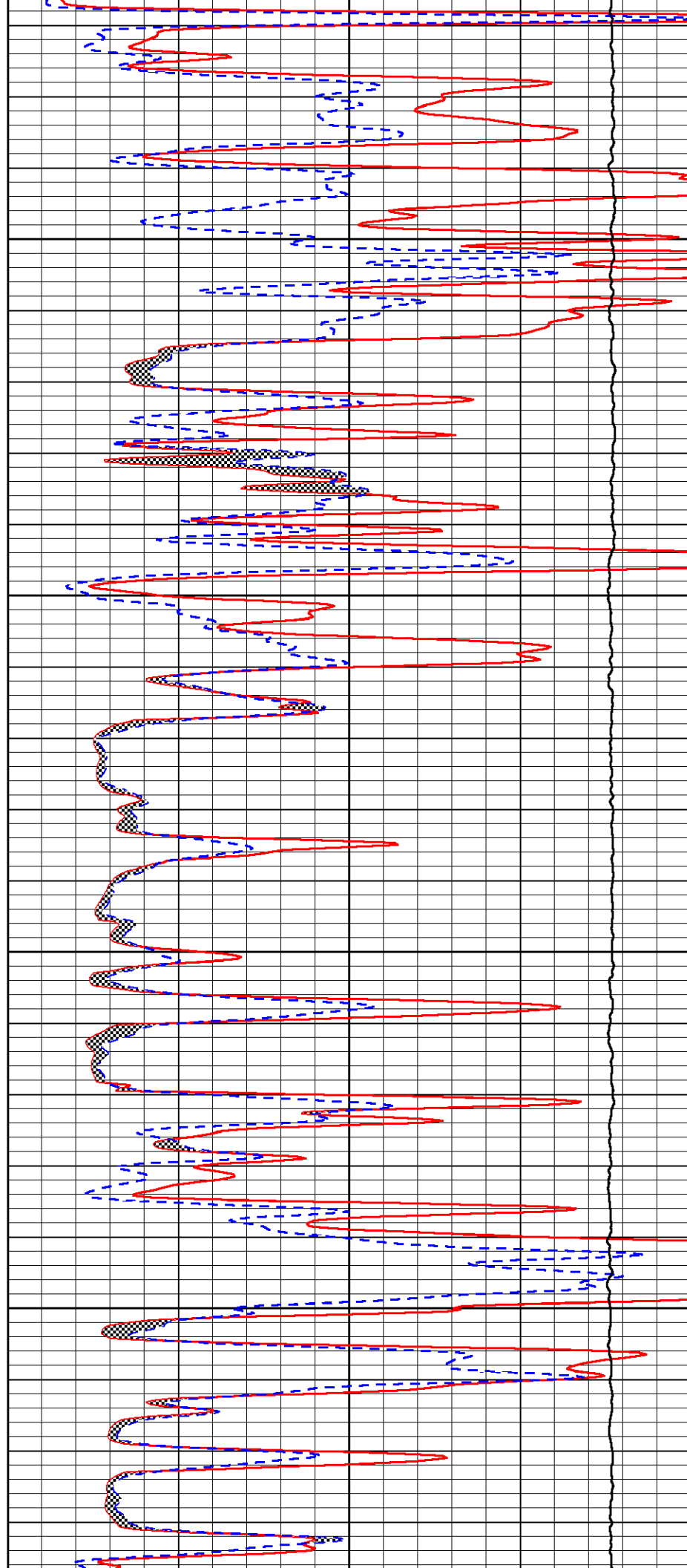


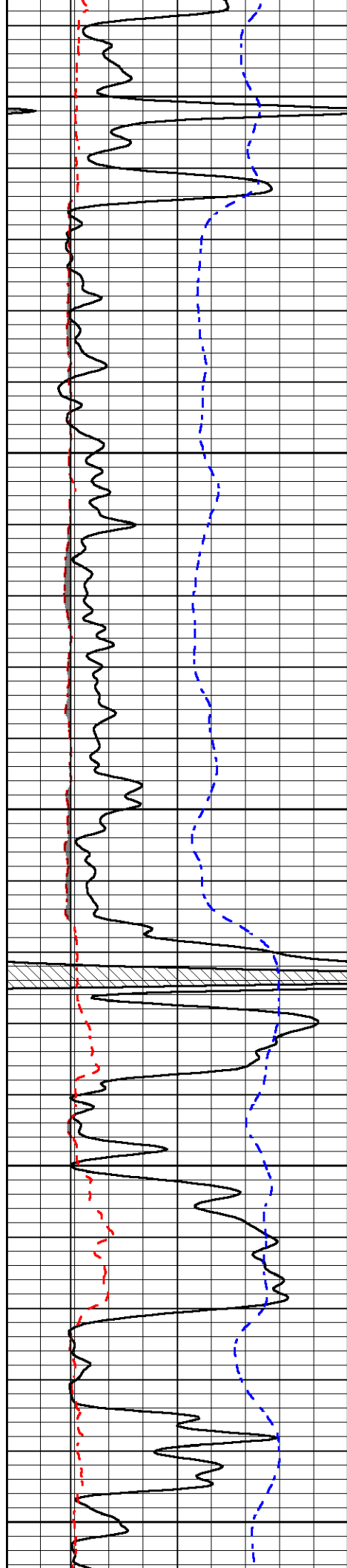
3500

3550

3600

3650





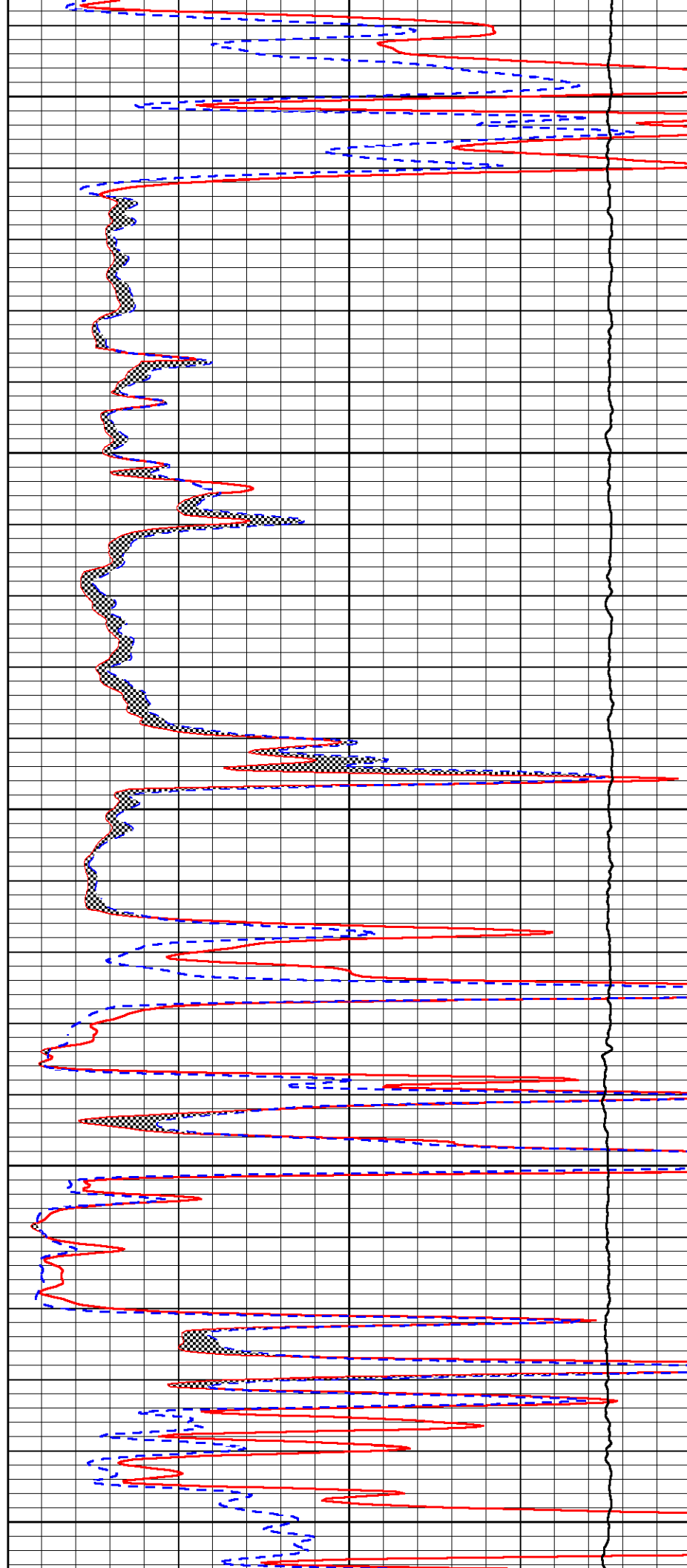
3700

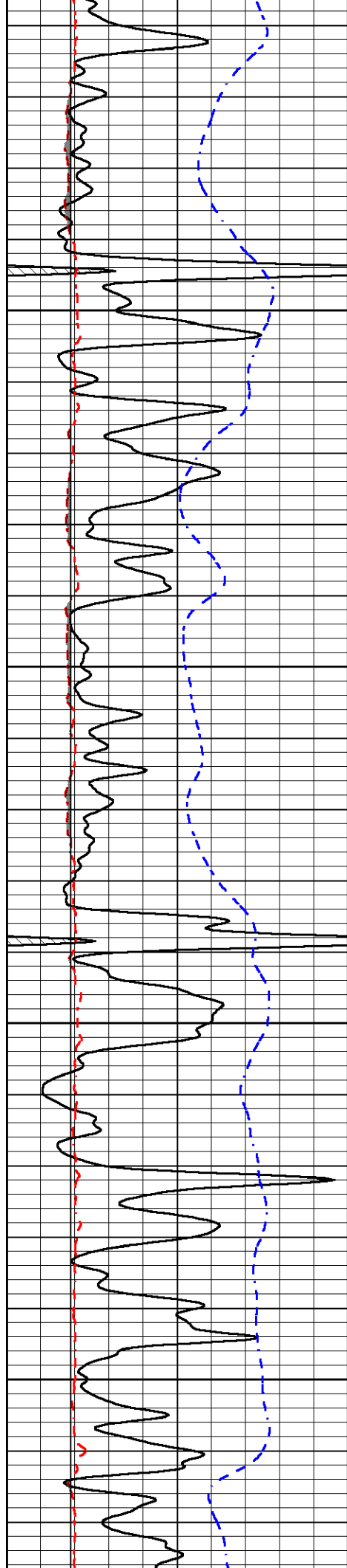
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3800

3850

3900



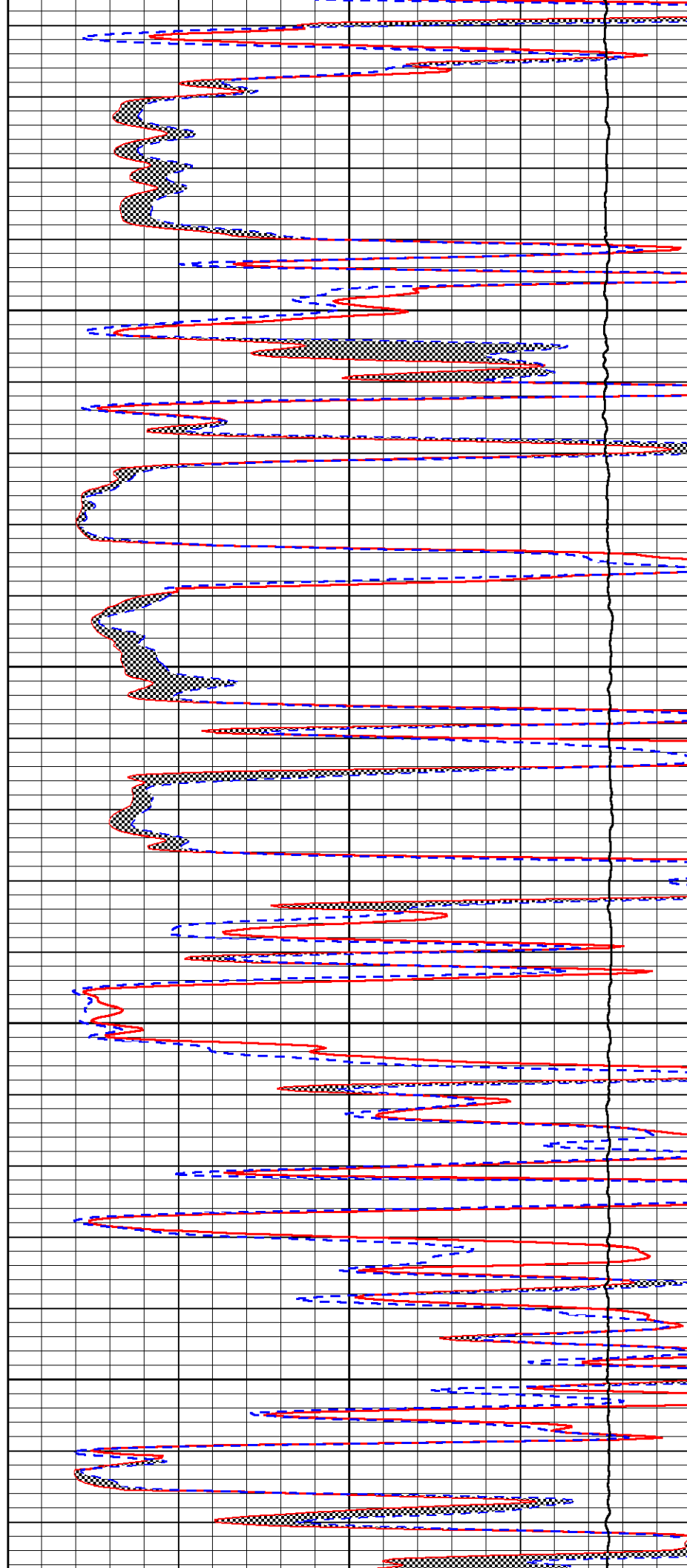


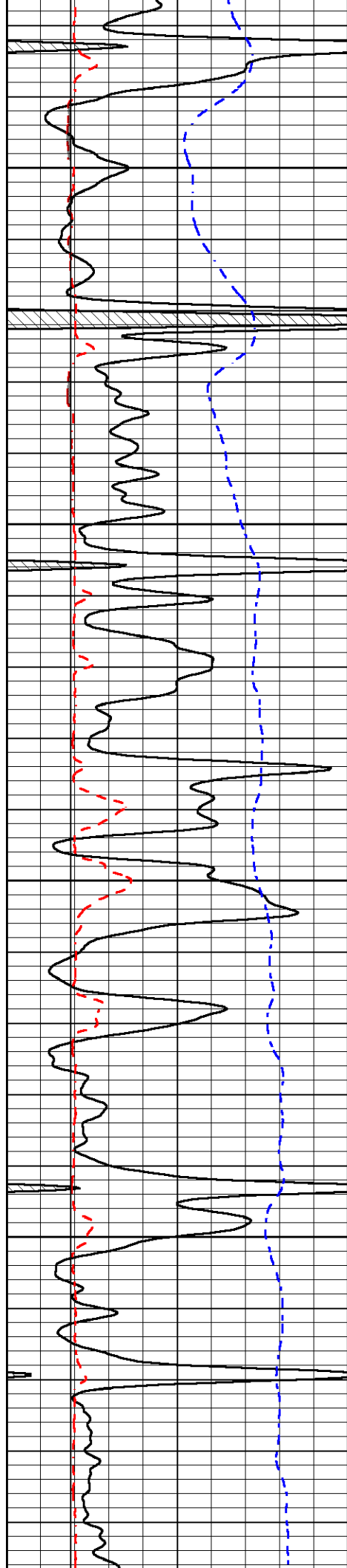
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4000

4050

4100



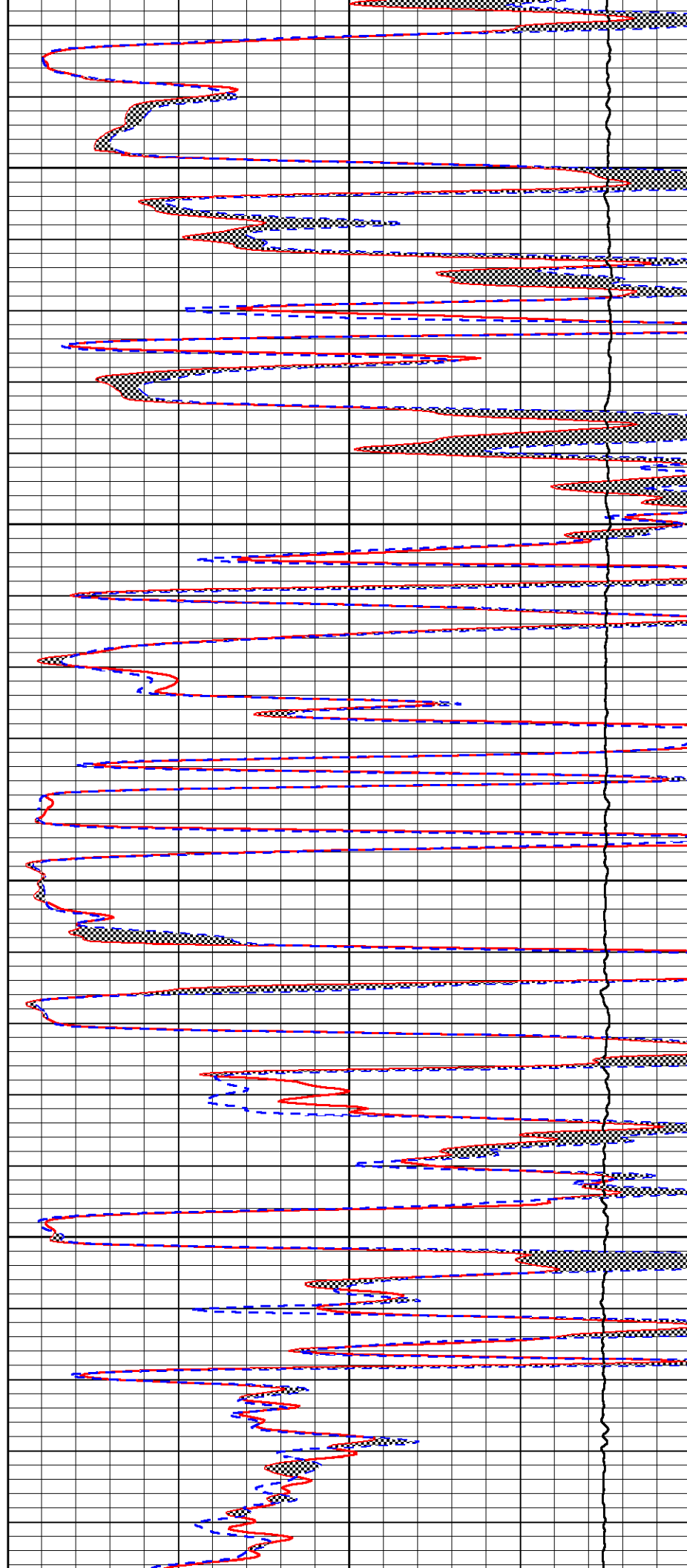


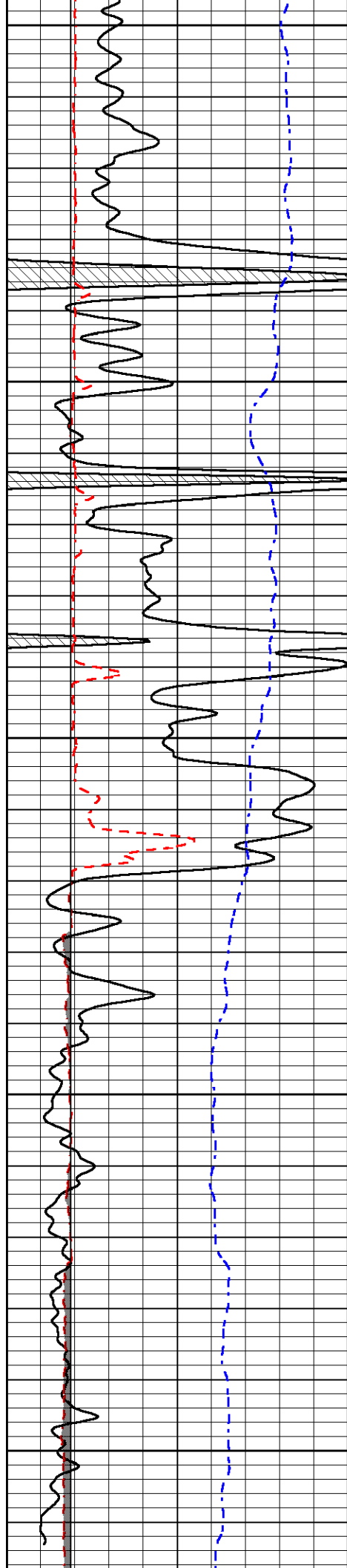
4150

4200

4250

4300





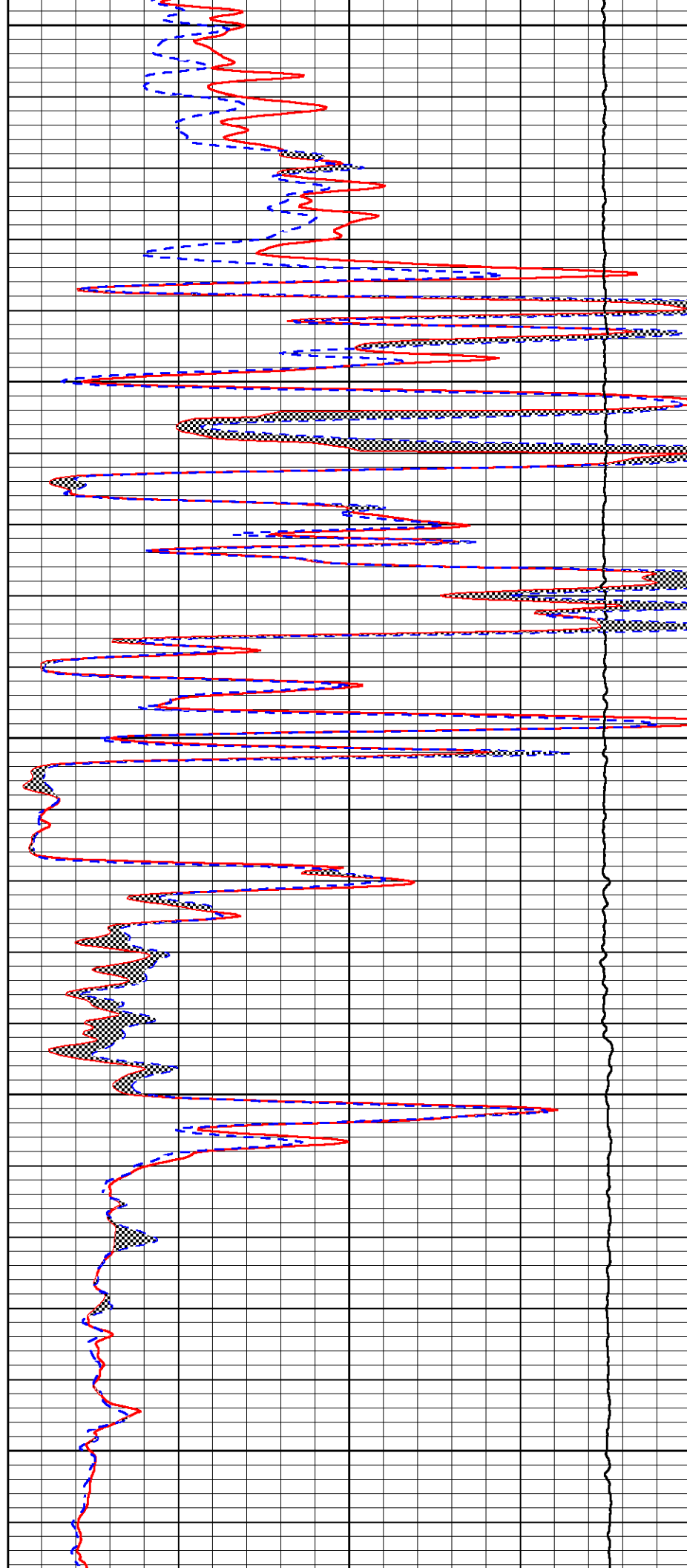
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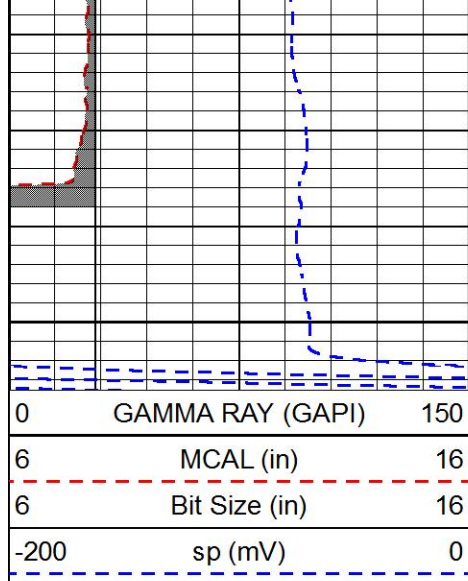
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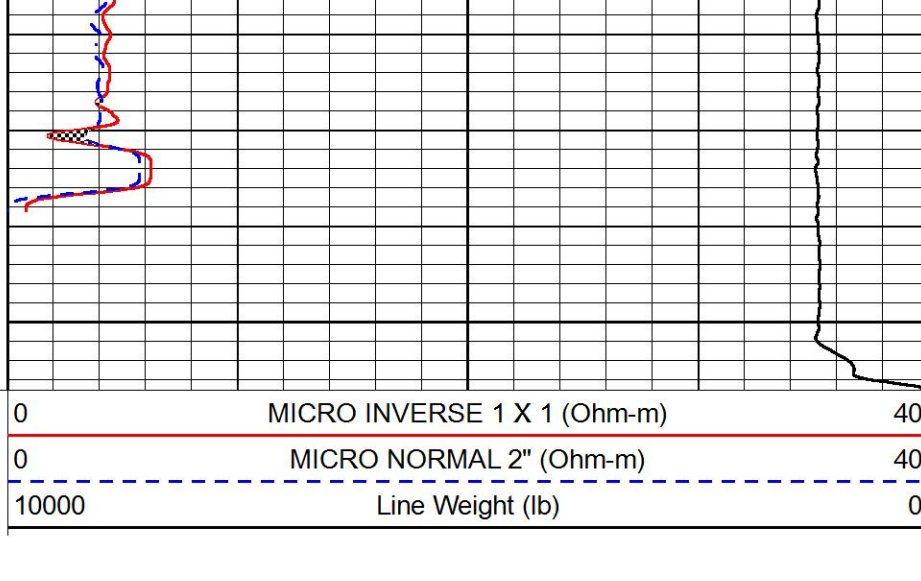
4500

4550





4600

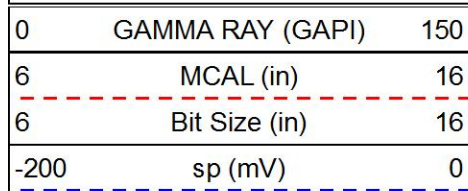


MIDWEST WIRELINE

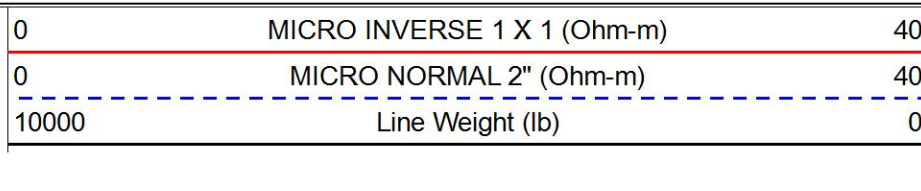
REPEAT SECTION

REPEAT PASS

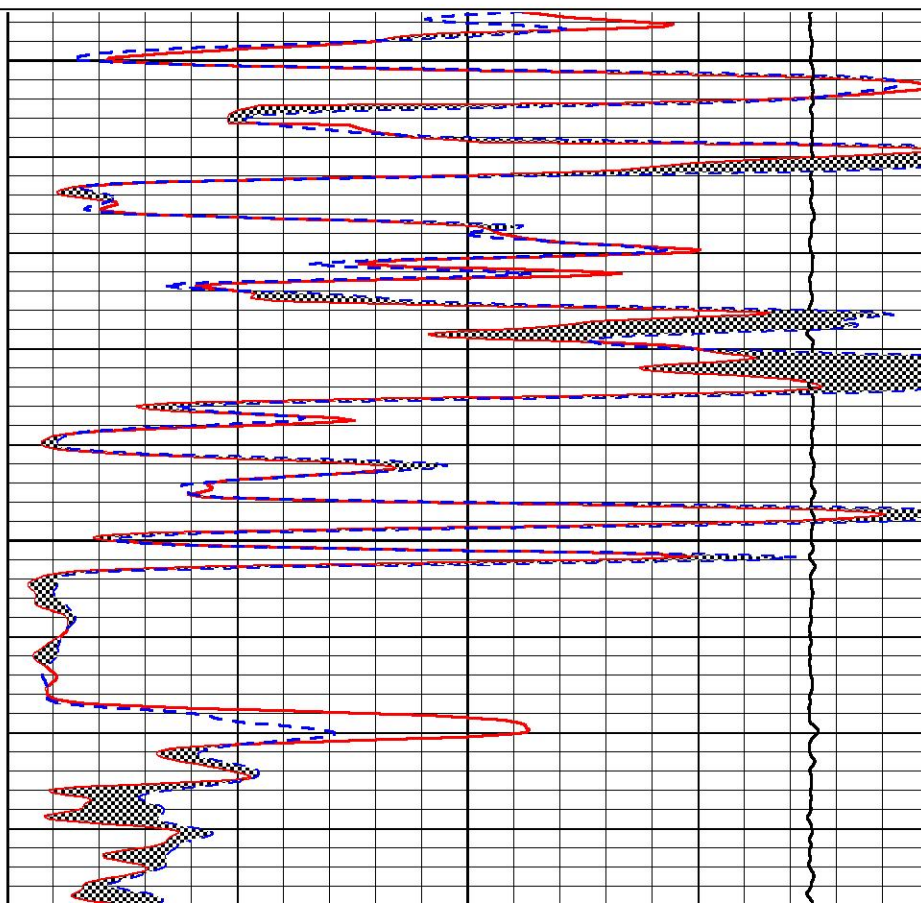
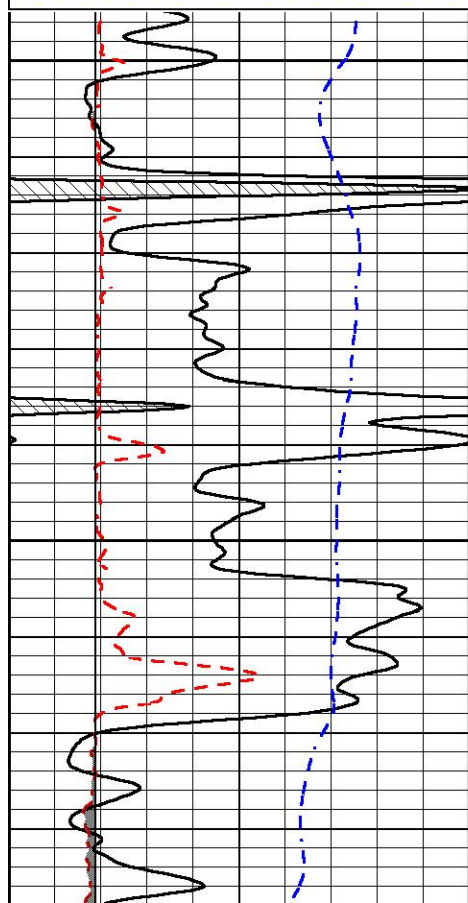
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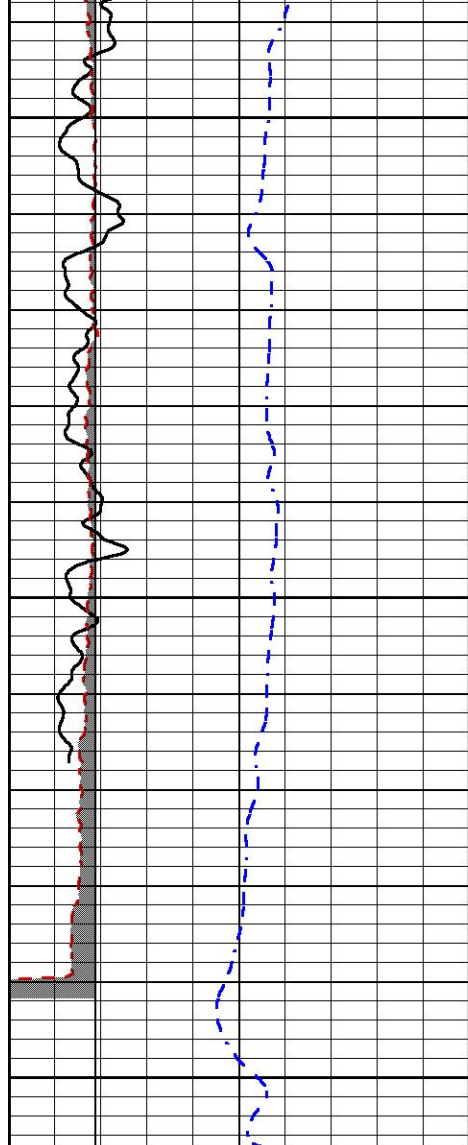


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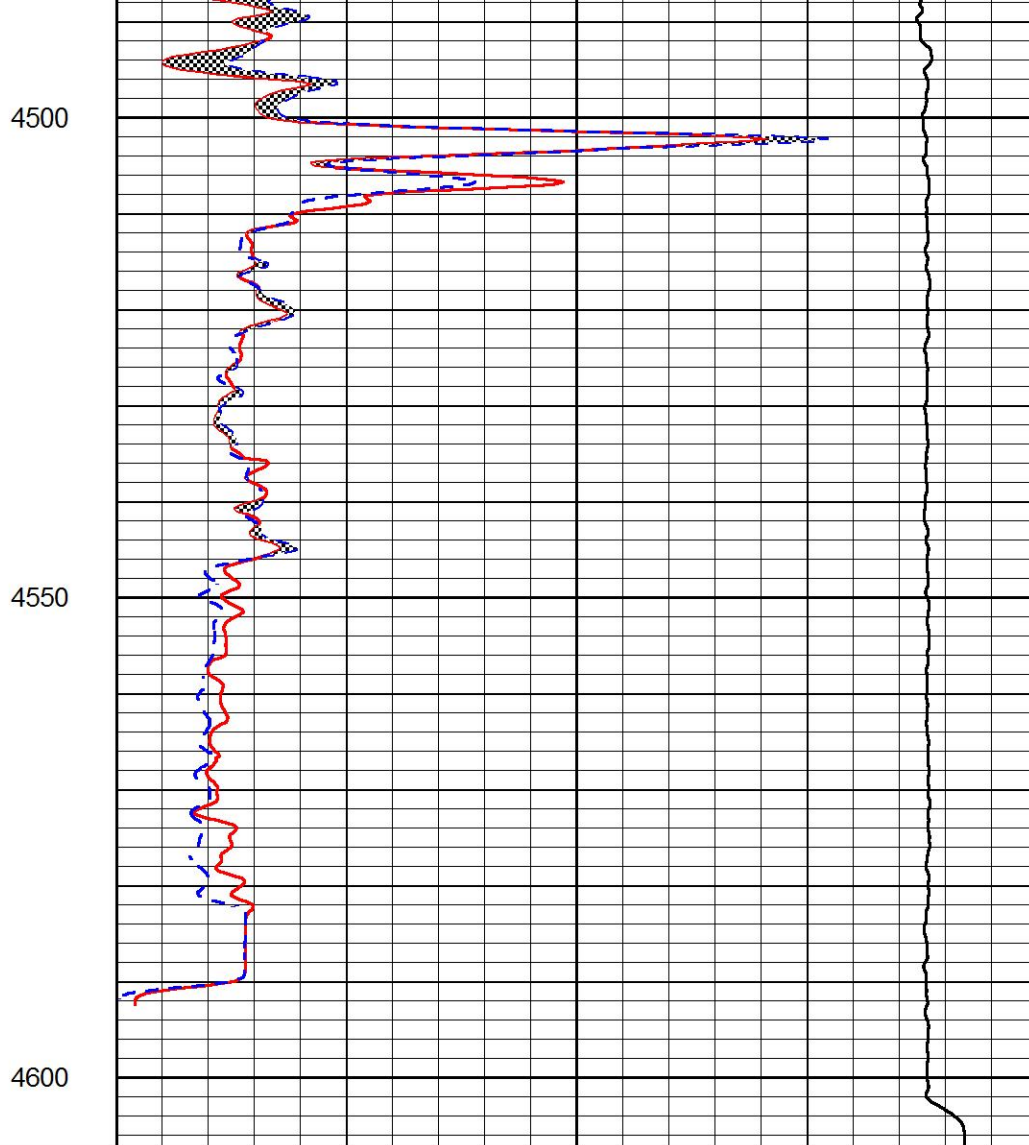


4450





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