



PIONEER

Pioneer Energy Services

MICRORESISTIVITY LOG

Company MURFIN DRILLING COMPANY, INC.
Well DORSCH #1-24
Field WILDCAT
County CHEYENNE
State KANSAS

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Location: API #: 15-023-21533-00-00

2310' FSL & 1980' FEL

SEC 24 TWP 2S RGE 38W

Permanent Datum GROUND LEVEL Elevation 3373'
Log Measured From KELLY BUSHING
Drilling Measured From KELLY BUSHING

Other Services
CNL/CDL
DIL/BHCS
Elevation
K.B. 3378'
D.F. N/A
G.L. 3373'

Date 2/25/2020

Run Number ONE

Depth Driller 5100'

Depth Logger 5103'

Bottom Logged Interval 5102'

Top Log Interval 3900'

Casing Driller 8.625" @ 306'

Casing Logger 304'

Bit Size 7.875"

Type Fluid in Hole CHEMICAL

Salinity, ppm CL 600

Density / Viscosity 9.2 62

pH / Fluid Loss 10.5 6.4

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.10 @ 57

Rmt @ Meas. Temp .83 @ 57

Rmc @ Meas. Temp 1.49 @ 57

Source of Rmt / Rmc CHARTS

Rm @ BHT .49 @ 127

Operating Rig Time 4 HOURS

Max Rec. Temp. F 127 DEGF

Equipment Number P-108

Location HAYS

Recorded By J. HENRICKSON

Witnessed By BRAD RINE

<<< Fold Here >>>

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.

BIRD CITY KANSAS
NORTH TO U ROAD, 1/2 EAST, NORTH INTO

Log Measured From: KELLY BUSHING 5 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: J. HENRICKSON
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: BRAD RINE
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 127	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 400	degF 50	Off	ft 5103

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	44.50			GR-M&W (89-M&W)	3.00	3.50	50.00
CNLSC	41.40			CNT-M&W (tk10-MW)	5.50	3.50	100.00
CNSSC	40.65						
LSD	32.35			CDL-M&W (934-229)	8.50	4.00	250.00
DCAL	32.33			ML-PSI UDM ML (UDM-01)	11.50	4.00	215.00
SSD	31.85			Stackable Microlog Tools			
MCAL	20.87						
MI	20.87						
MN	20.87						
RLL3	15.80						
RLL3F	15.79						
CILD	8.00			DIL-M&W (55-222)	18.50	3.50	220.00

CILM 4.70

SP 0.20

Dataset: murfin_dorsch_1_24.db: field/well/stackml/pass3.1
Total length: 47.00 ft
Total weight: 835.00 lb
O.D.: 4.00 in

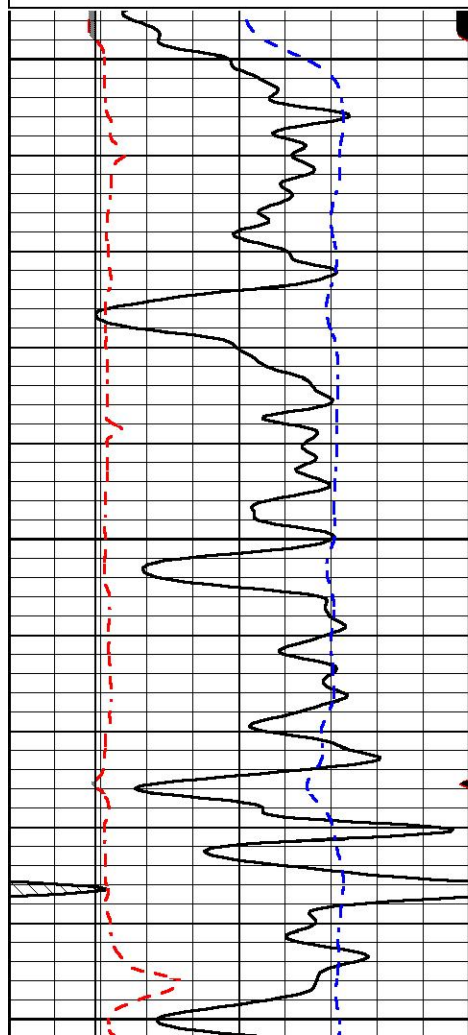


MAIN PASS

Database File murfin_dorsch_1_24.db
Dataset Pathname stackml/pass3.1
Presentation Format micro
Dataset Creation Wed Feb 26 06:17:31 2020
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

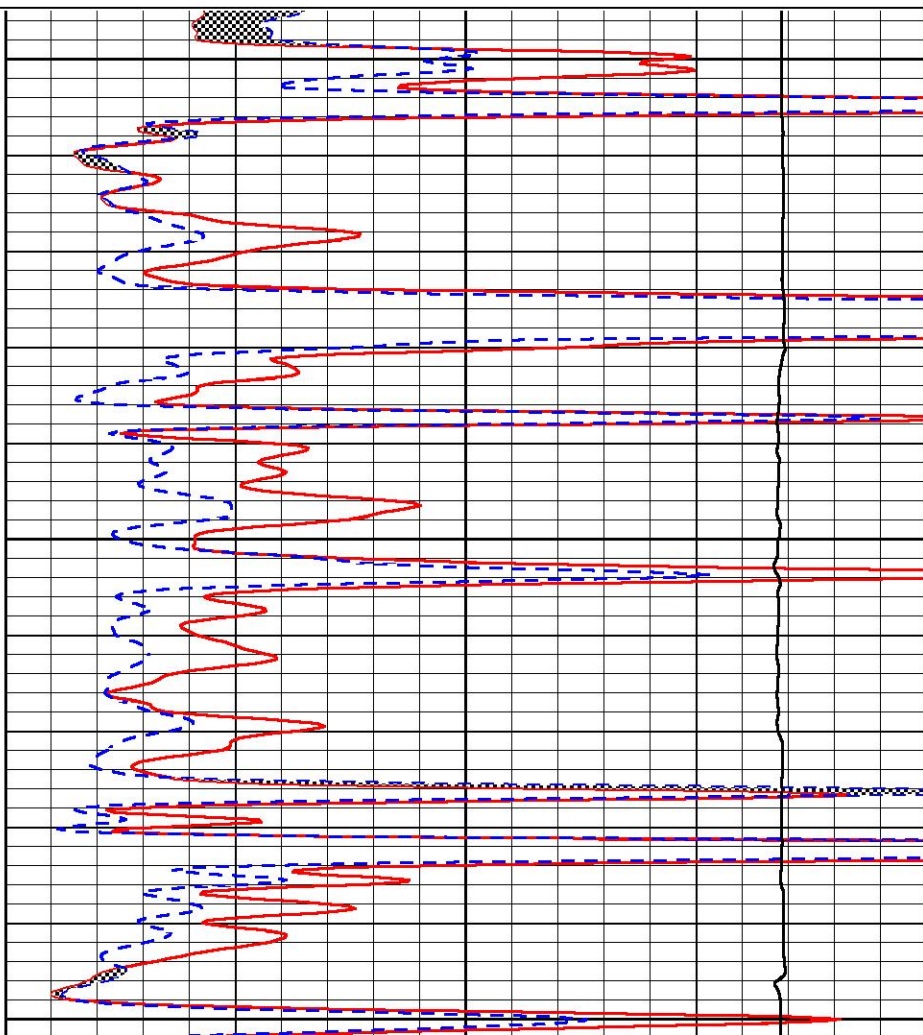
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

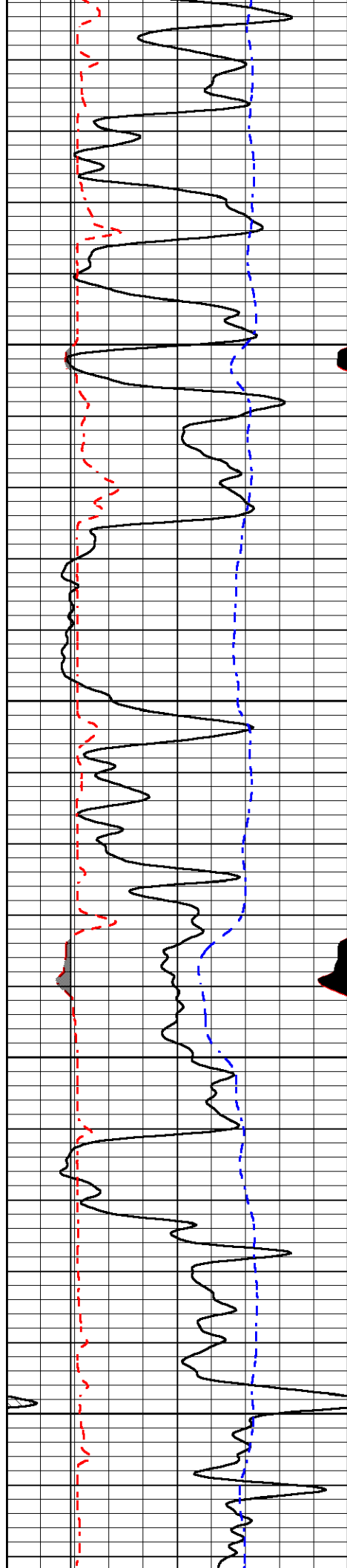


3900

3950

4000



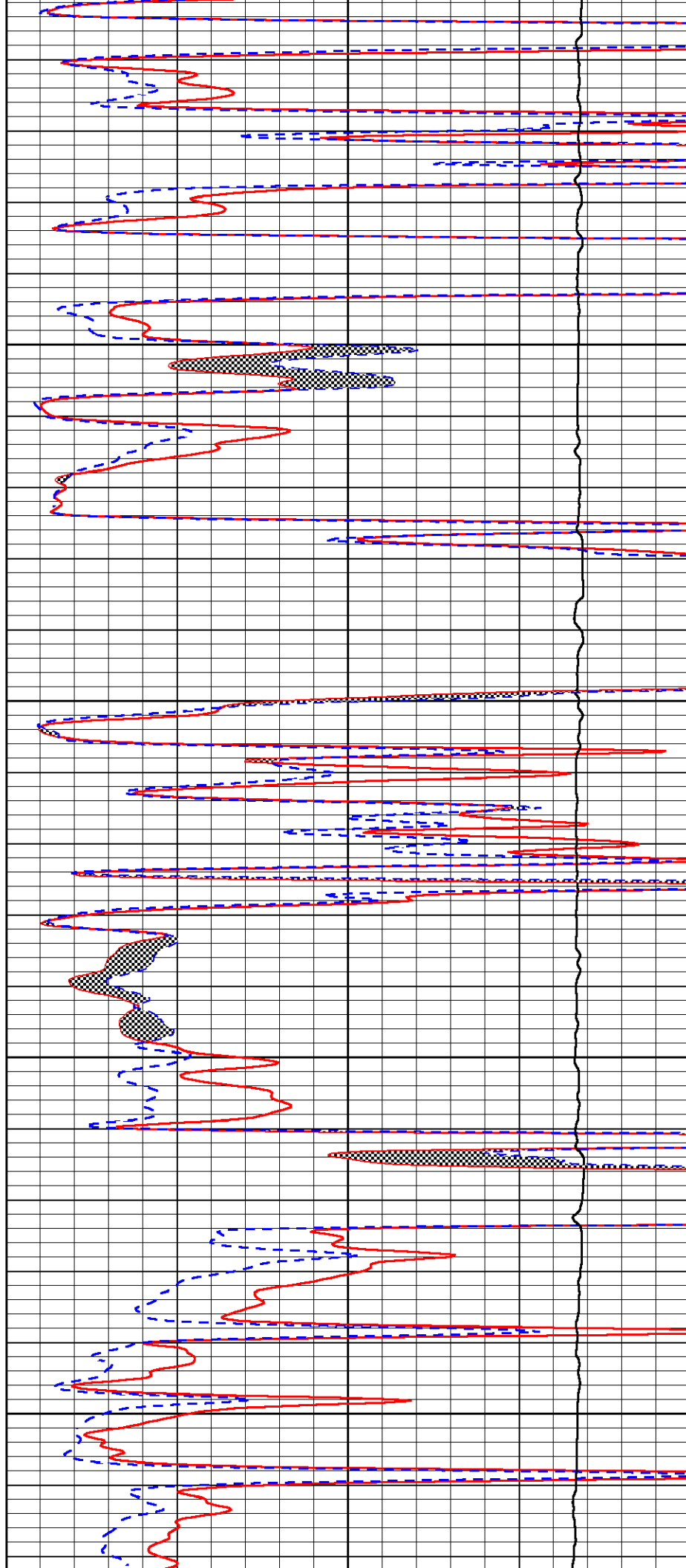


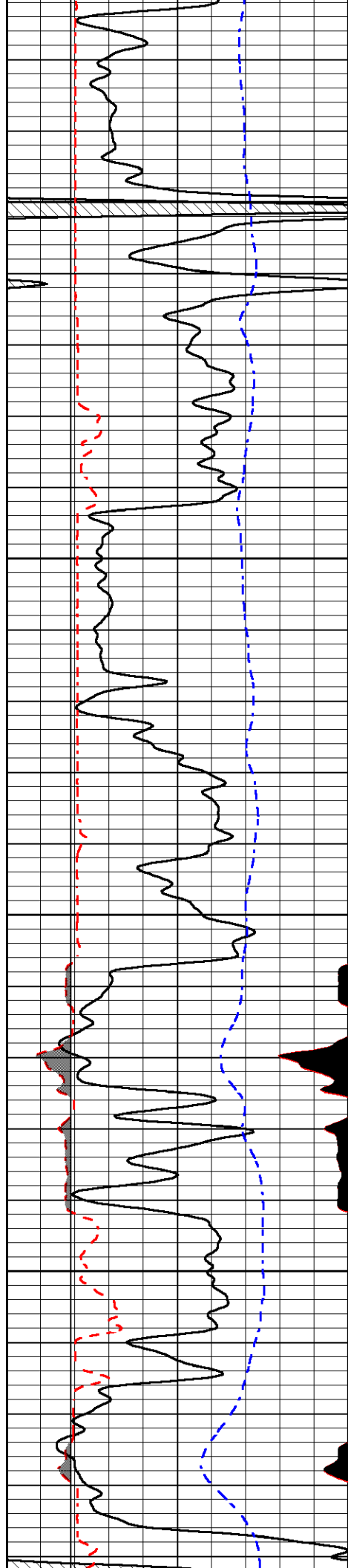
4050

4100

4150

4200



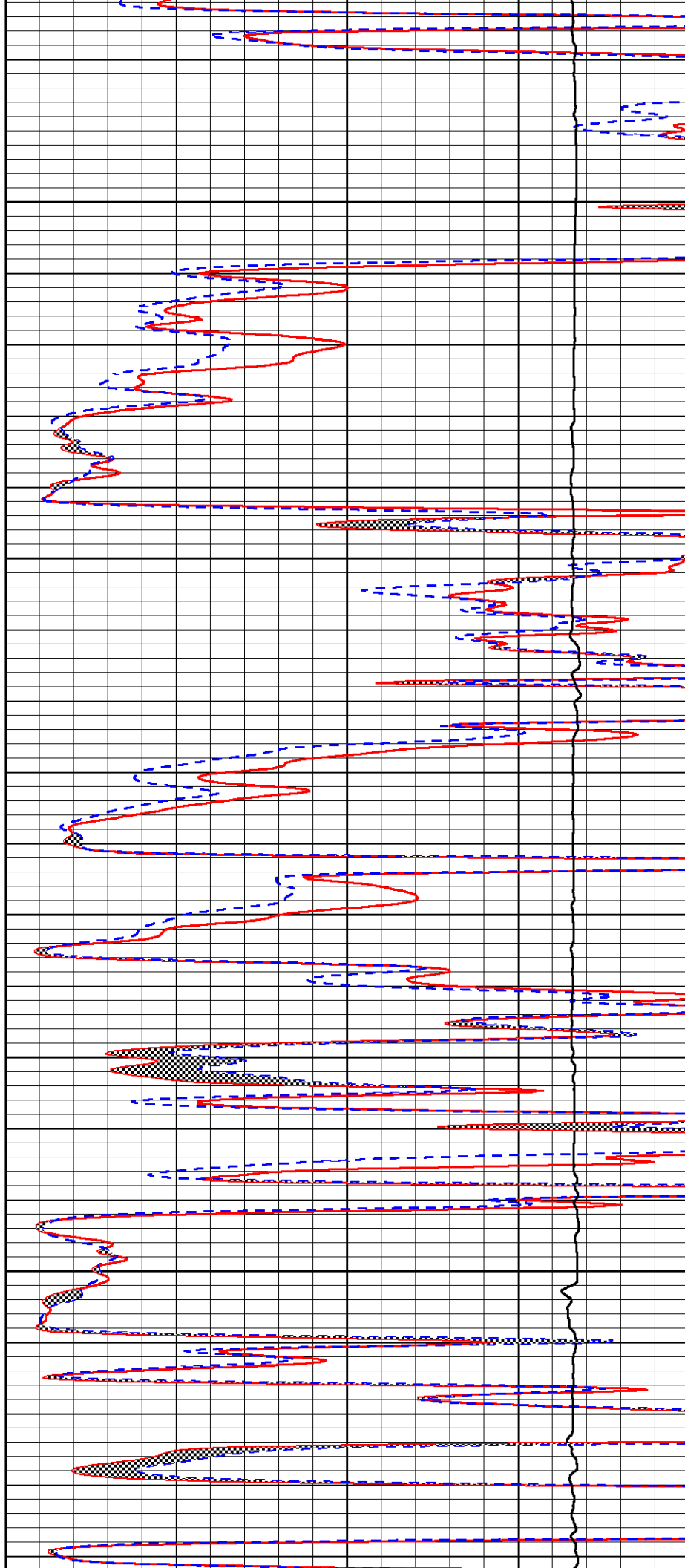


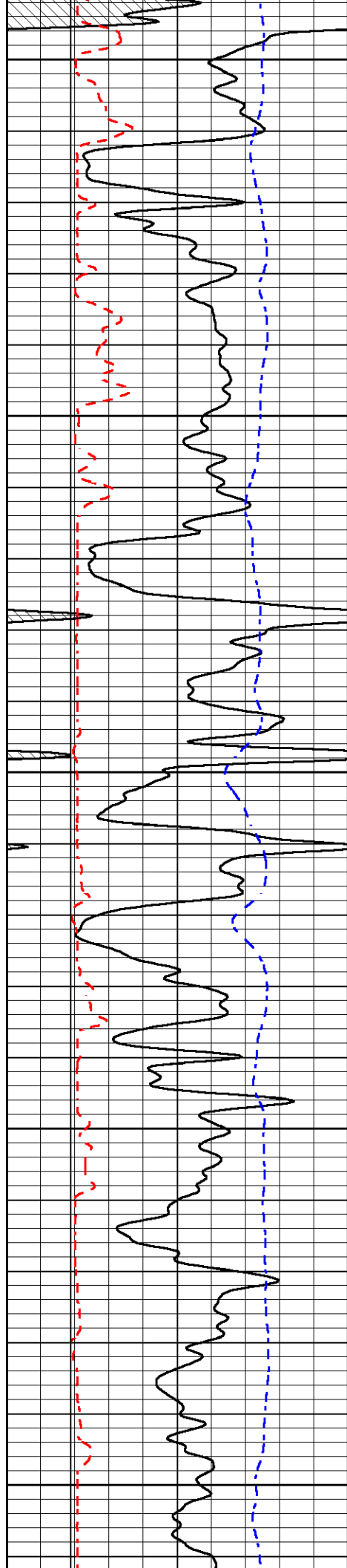
4250

4300

4350

4400





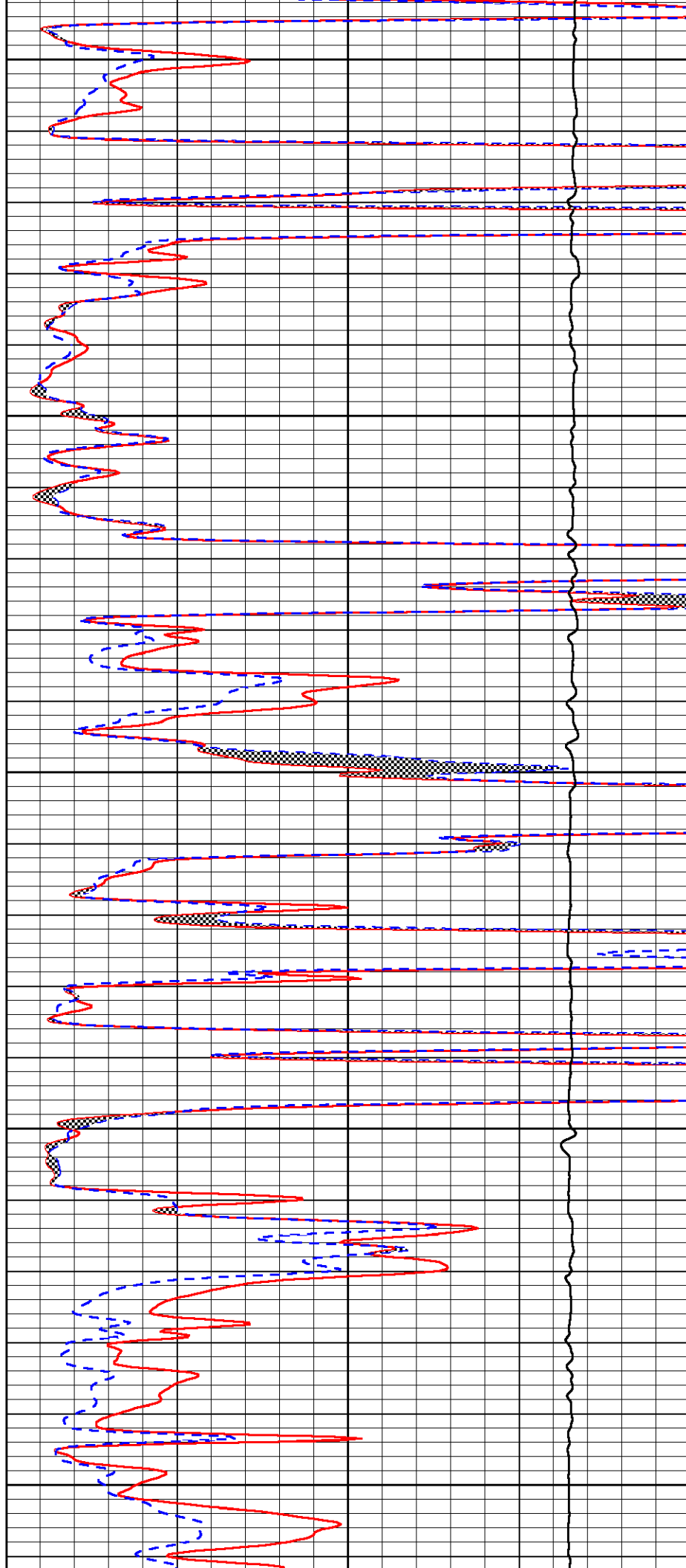
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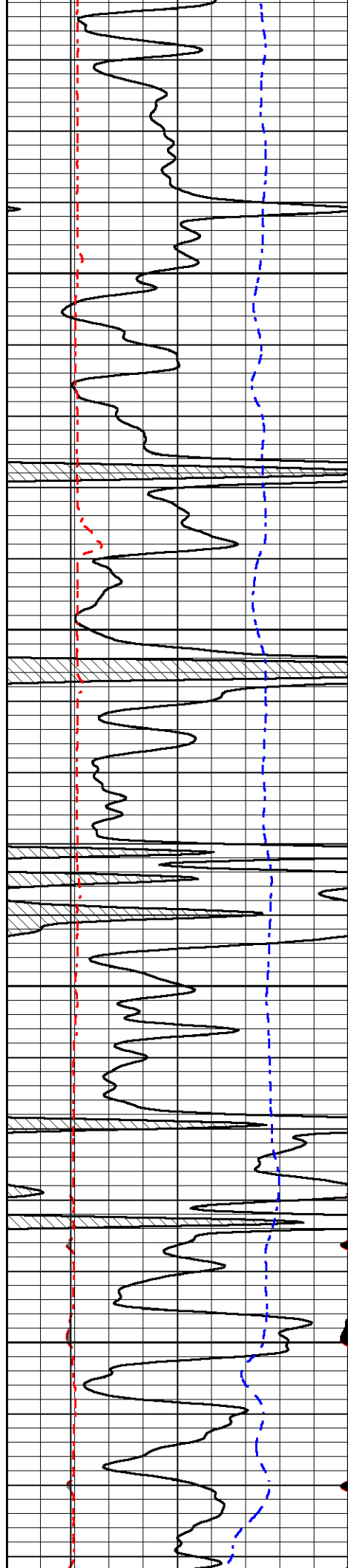
4500

4550

4600

4650



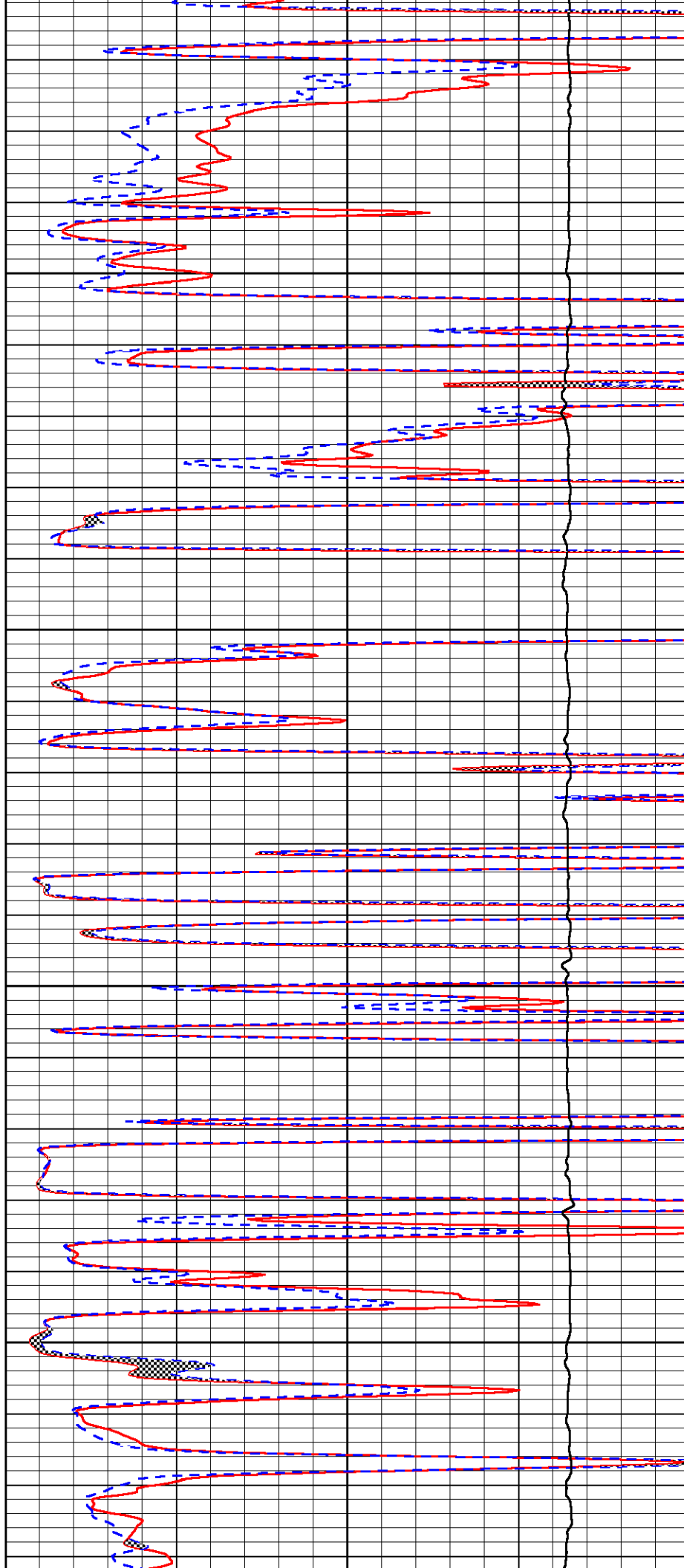


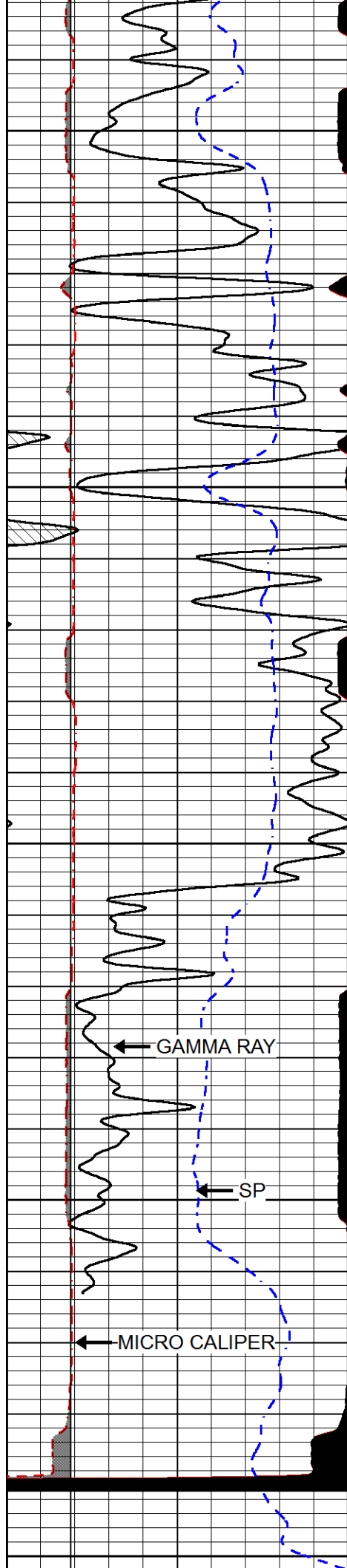
4700

4750

4800

4850





4900

4950

5000

MICRO INVERSE 1 X 1

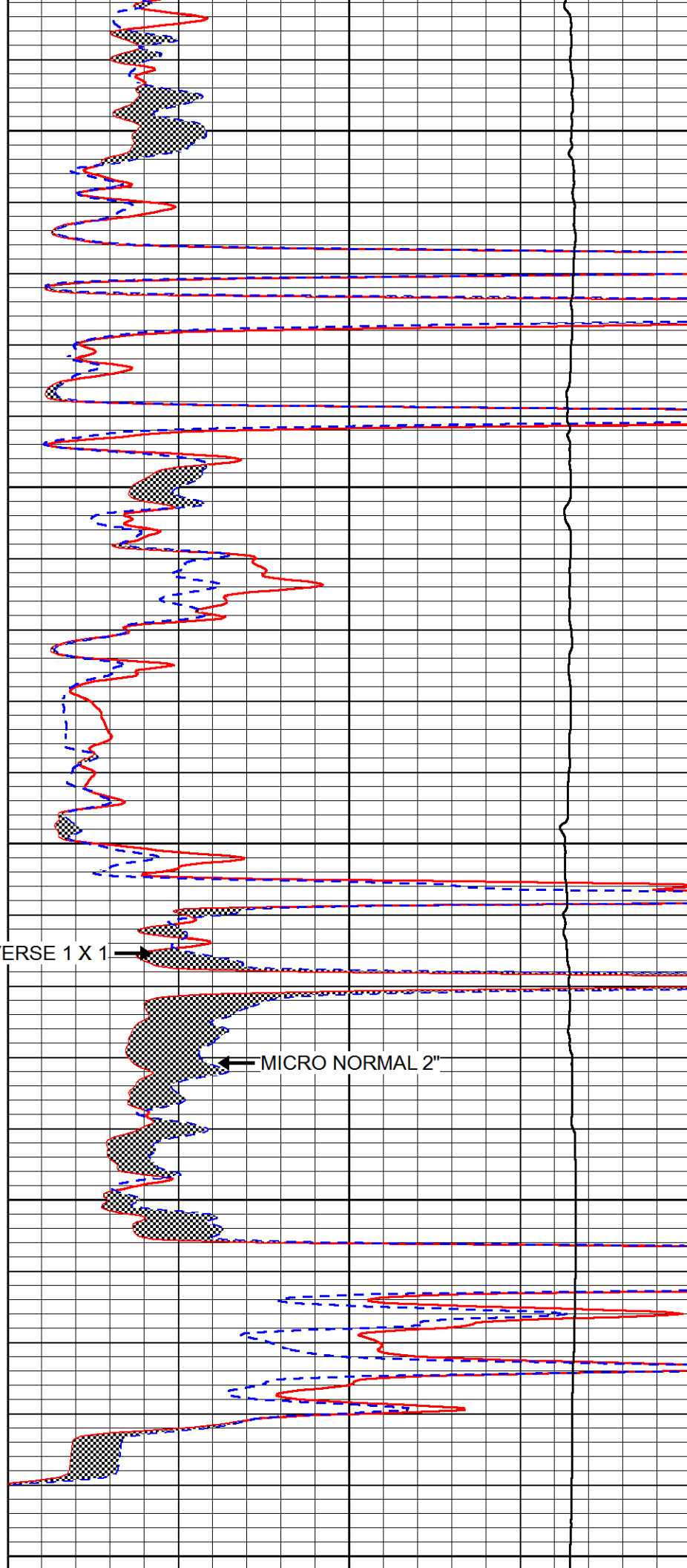
GAMMA RAY

SP

MICRO CALIPER

5050

5100



MICRO NORMAL 2"

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (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
15000	LINE TENSION (lb)	0

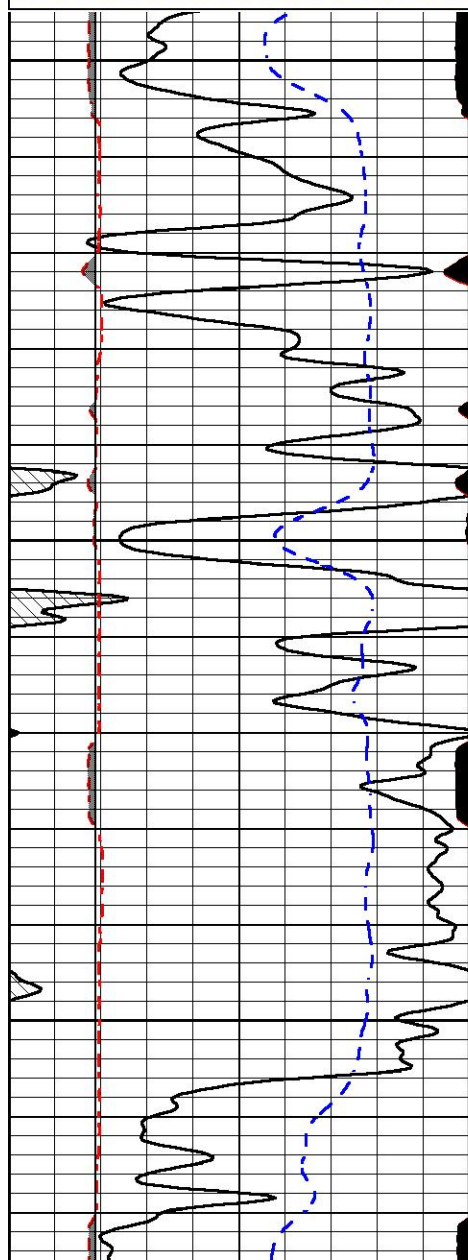


REPEAT SECTION

Database File murfin_dorsch_1_24.db
Dataset Pathname stackml/pass2.1
Presentation Format micro
Dataset Creation Wed Feb 26 05:36:38 2020
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	MICRO CALIPER (in)	16
6	BIT SIZE (in)	16
-200	SP (mV)	0

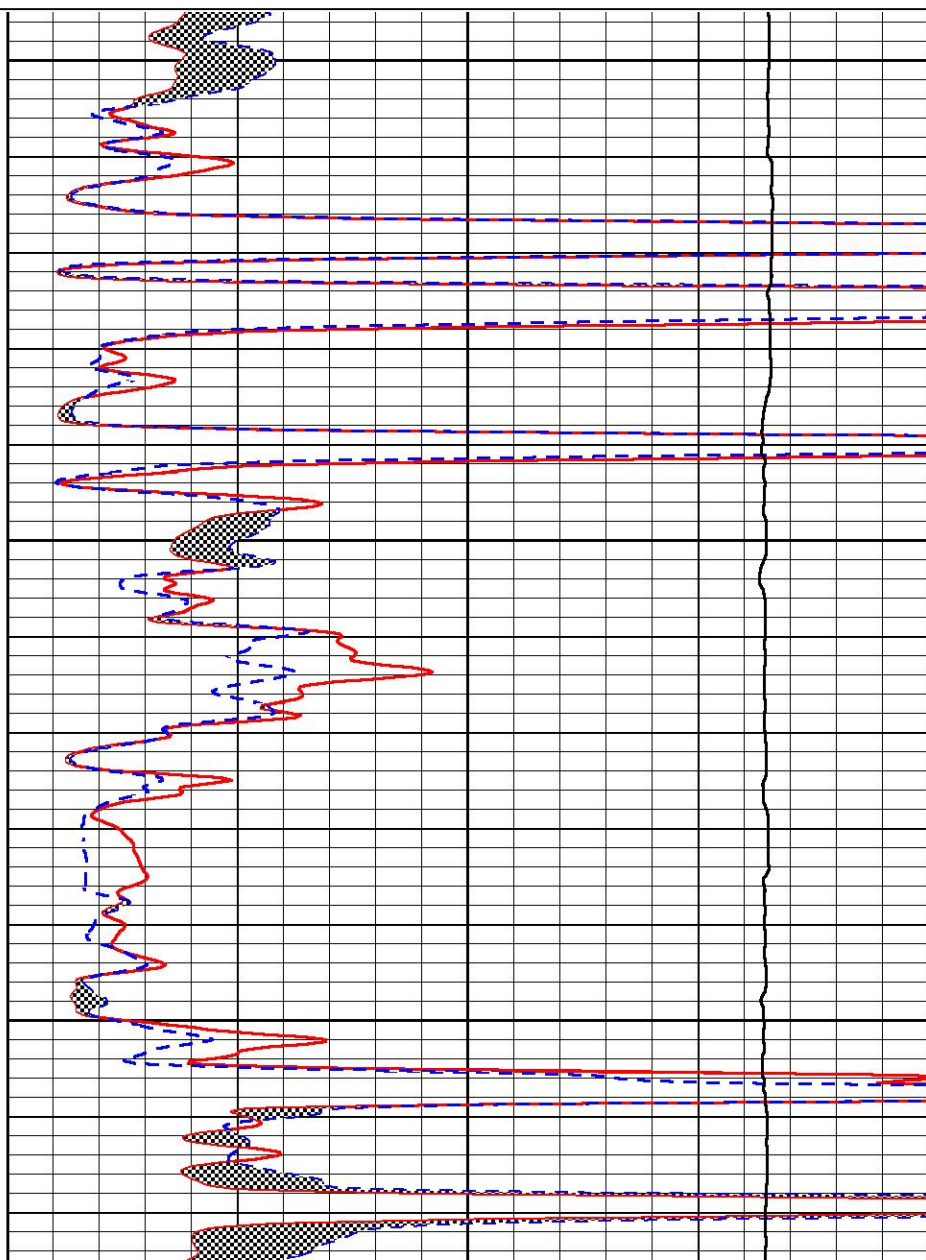
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
15000	LINE TENSION (lb)	0

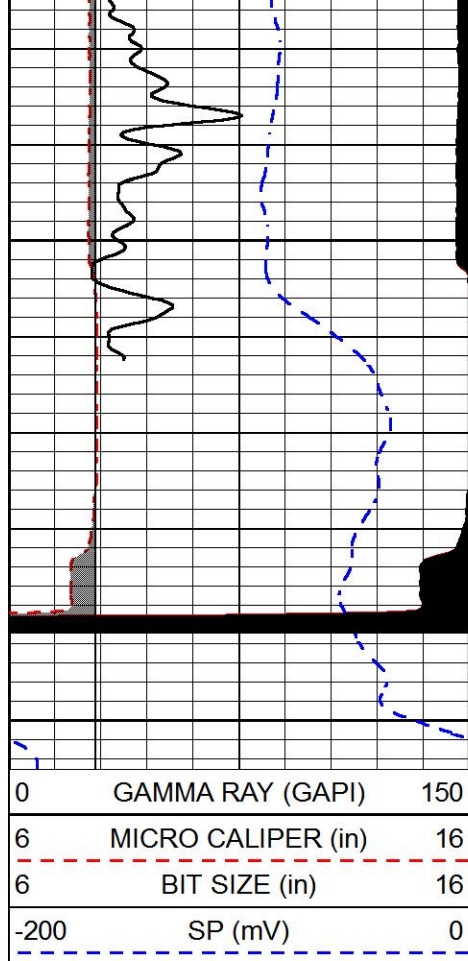


4900

4950

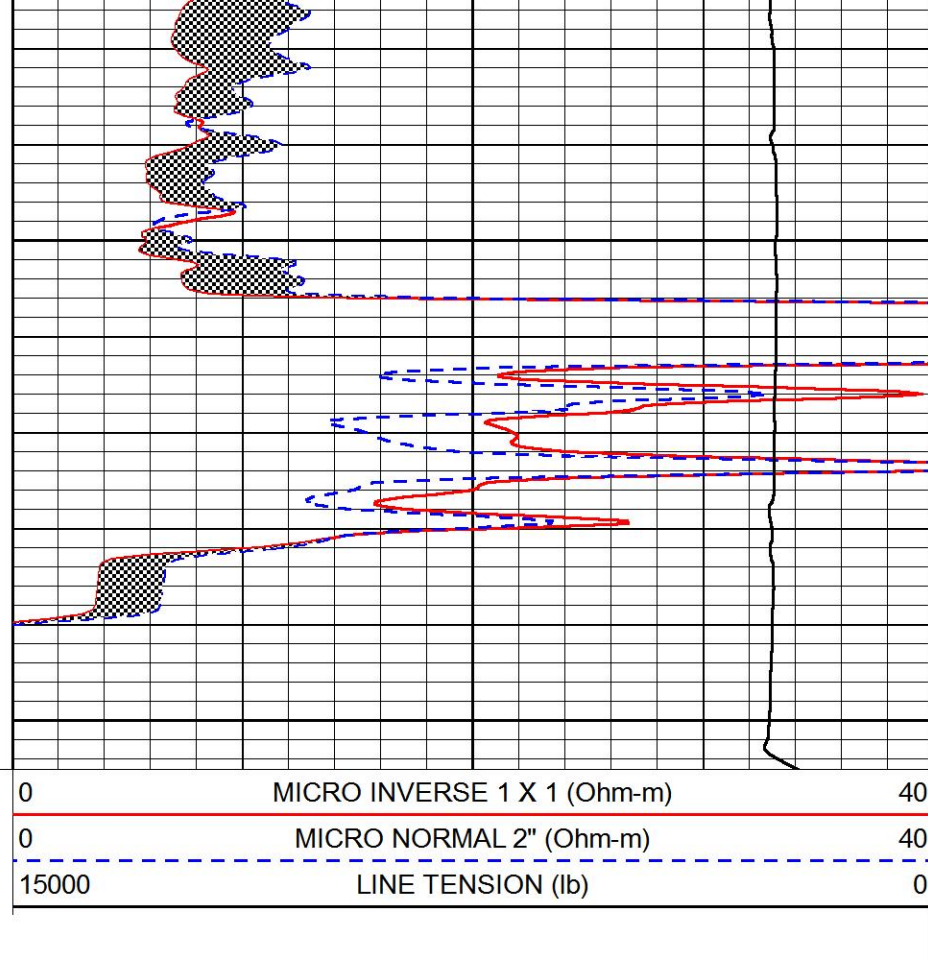
5000





5050

5100



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