



MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company Talon Group, LLC
 Well Selfridge #2-11
 Field N/A
 County Lane
 State Kansas

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 Well Selfridge #2-11
 Field N/A
 County Lane State Kansas

Location: 2395' FNL & 880' FWL
 SEC 11 TWP 18S RGE 28W
 API #: 15-101-22645-00-00
 Permanent Datum Ground Level Elevation 2728'
 Log Measured From Kelly Bushing
 Drilling Measured From Kelly Bushing
 Other Services
 CNL/CDL
 DIL
 Elevation
 K.B. 2738'
 D.F. N/A
 G.L. 2728'

Date	2/4/2021
Run Number	Two
Depth Driller	4640'
Depth Logger	4642'
Bottom Logged Interval	4641'
Top Log Interval	3600'
Casing Driller	8.625" @ 262'
Casing Logger	262'
Bit Size	7.875"
Type Fluid in Hole	Chemical
Salinity, ppm CL	3300
Density / Viscosity	9.3 59
pH / Fluid Loss	11.0 8.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.60 @ 40
Rmt @ Meas. Temp	0.45 @ 40
Rmc @ Meas. Temp	0.81 @ 40
Source of Rmf / Rmc	CHARTS
Rm @ BHT	0.20 @ 122
Operating Rig Time	4 Hours
Max Rec. Temp. F	122
Equipment Number	P-24
Location	HAYS
Recorded By	D. Schmidt
Witnessed By	Vern Schrag

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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.

Dighton,
 East to Pawnee Rd,
 1 1/2 North, West into about 3/4 mile

Log Measured From: Kelly Bushing 10 Ft. Above Permanent Datum

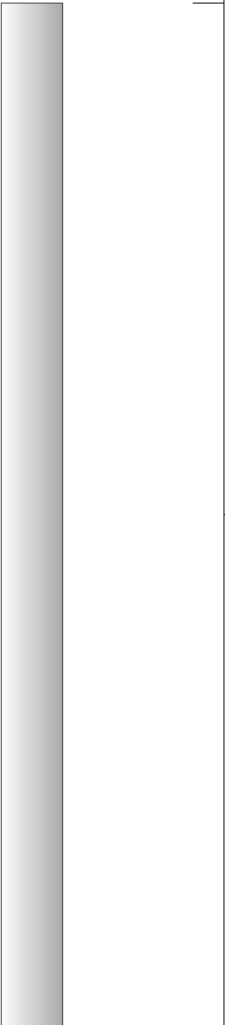
THANK YOU FOR USING MIDWEST WIRELINE LLC
 785-625-3858

Your Midwest Wireline Crew

Engineer: D. Schmidt
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: Vern Schrag
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
MCAL MI MN	1.00 1.00 1.00		ML-Armadillo (ARM001) Pengo micro log tool mandrel with Armadillo Electronics	5.00	3.50	100.00
Dataset: talon_selfridge 2-11.db: field/well/mel/pass2 Total length: 5.00 ft Total weight: 100.00 lb O.D.: 3.50 in						

Log Variables

DatabaseC:\ProgramData\Warrior\Data\talon_selfridge 2-11.db
 Dataset field/well/stack/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	100	4.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	655	0	Off	0

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

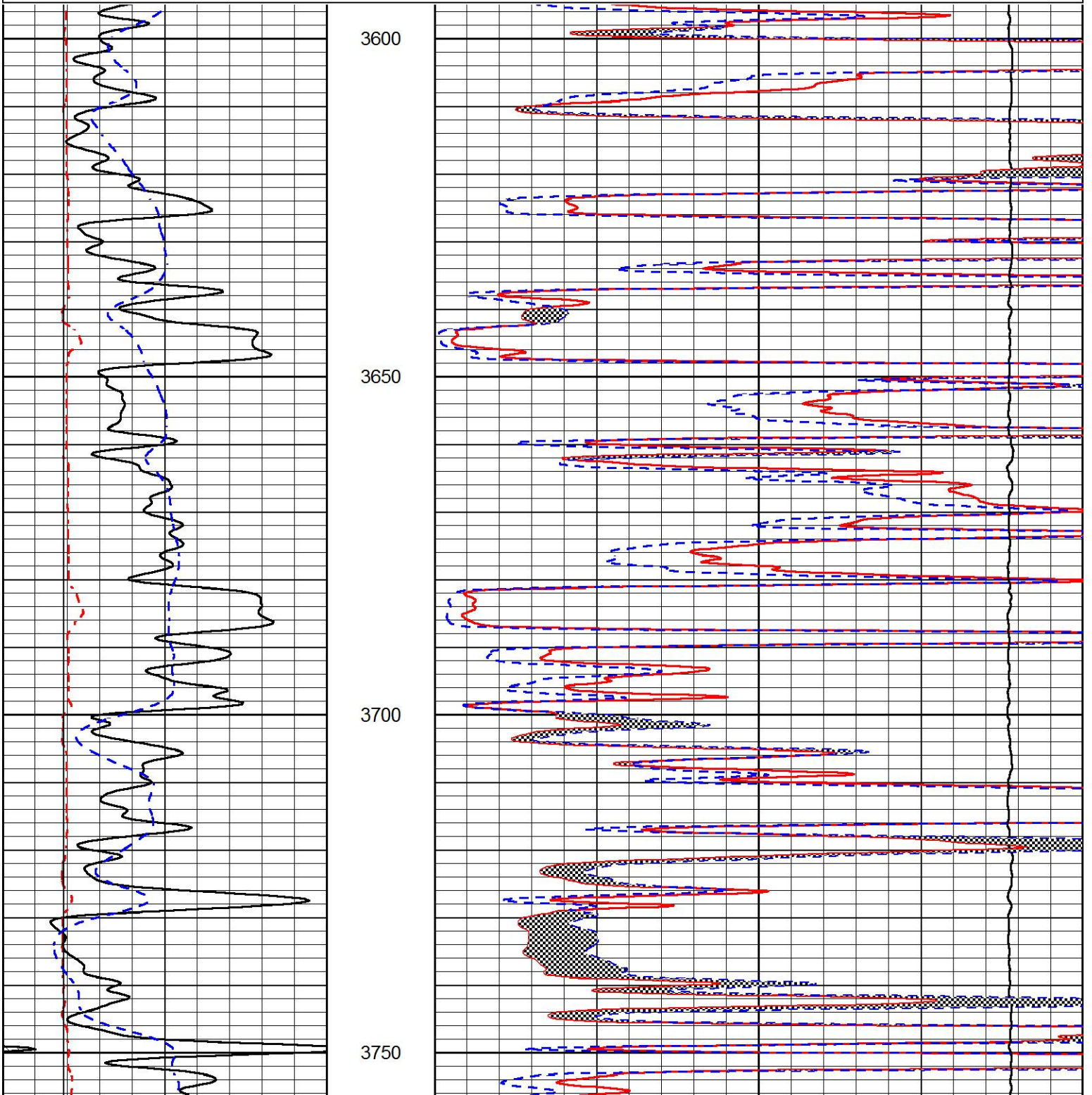


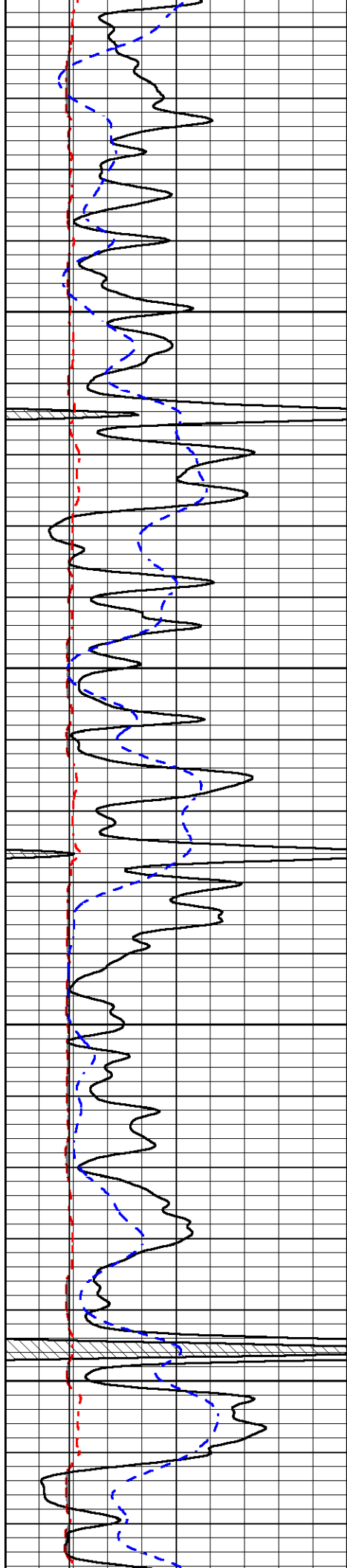
MAIN PASS

Database File talon_selfridge 2-11.db
 Dataset Pathname stack/pass5.1
 Presentation Format _micro
 Dataset Creation Thu Feb 04 08:22:55 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



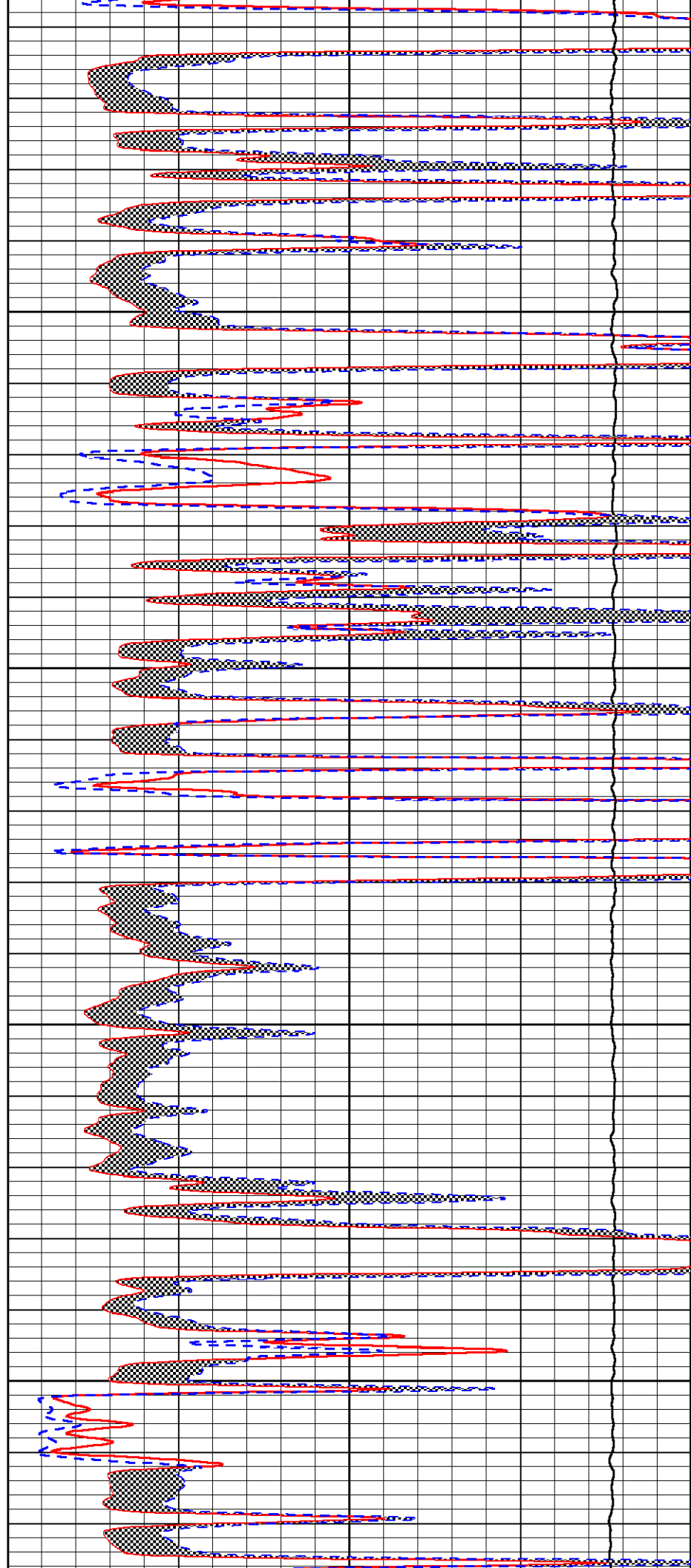


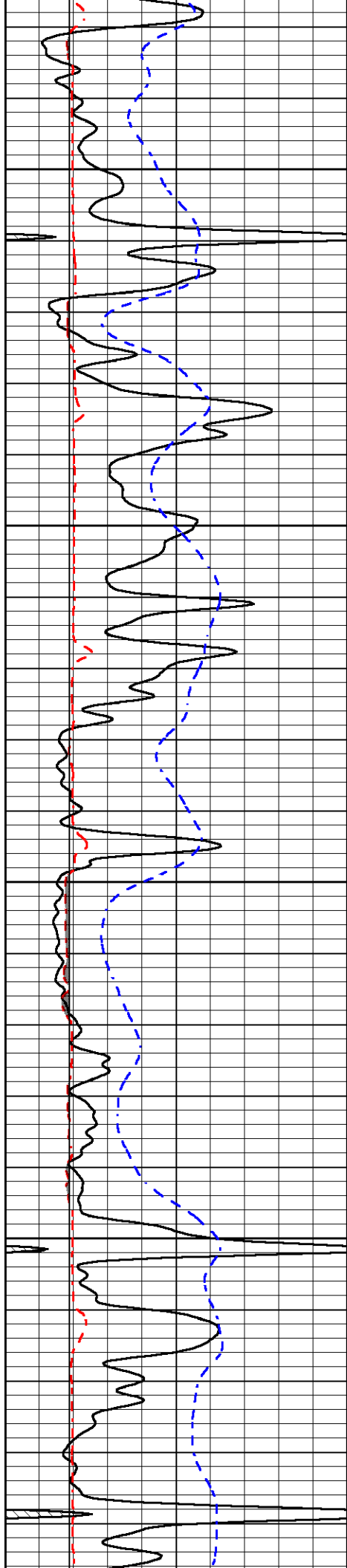
3800

3850

3900

3950



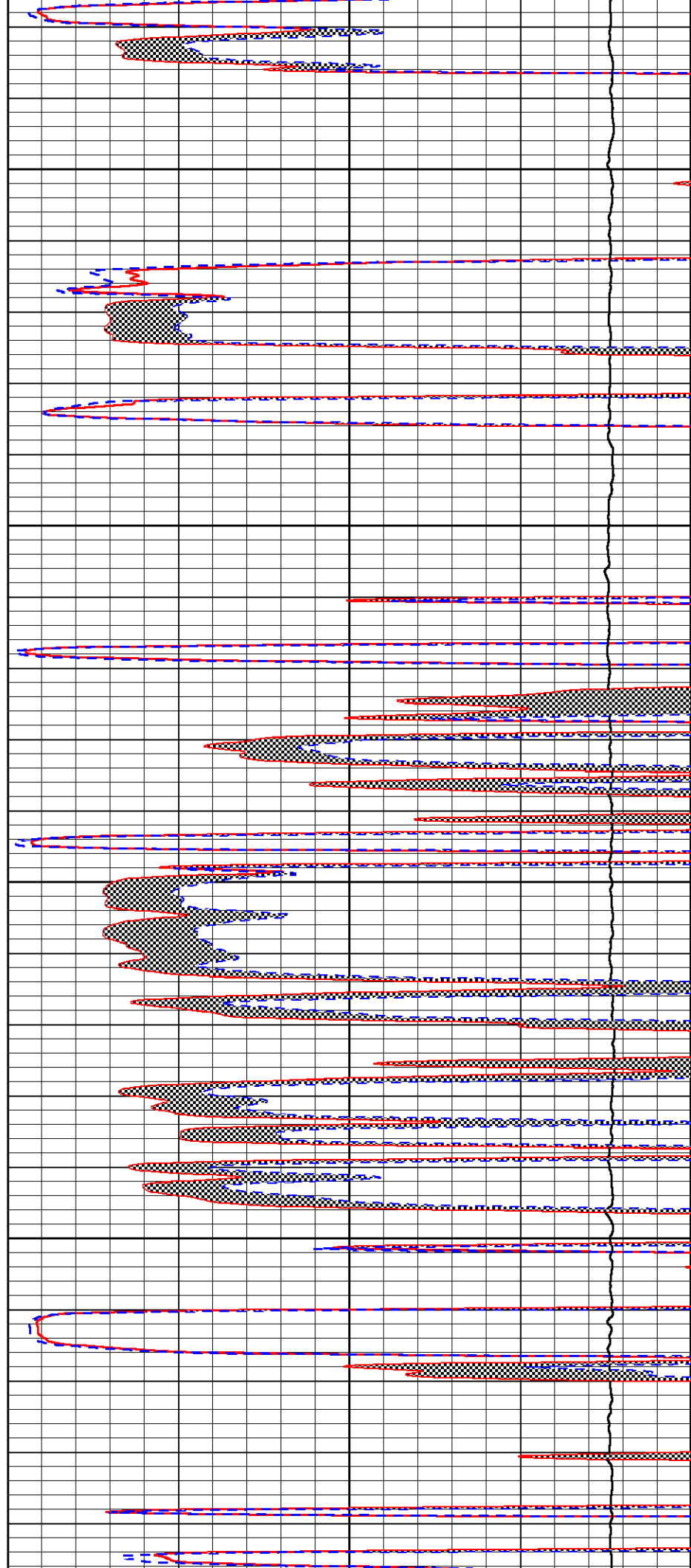


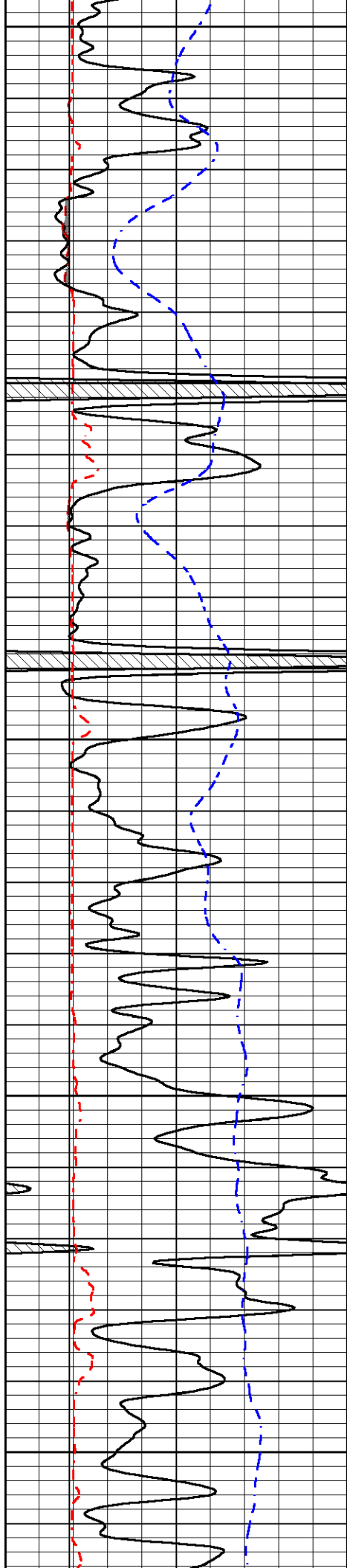
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4050

4100

4150





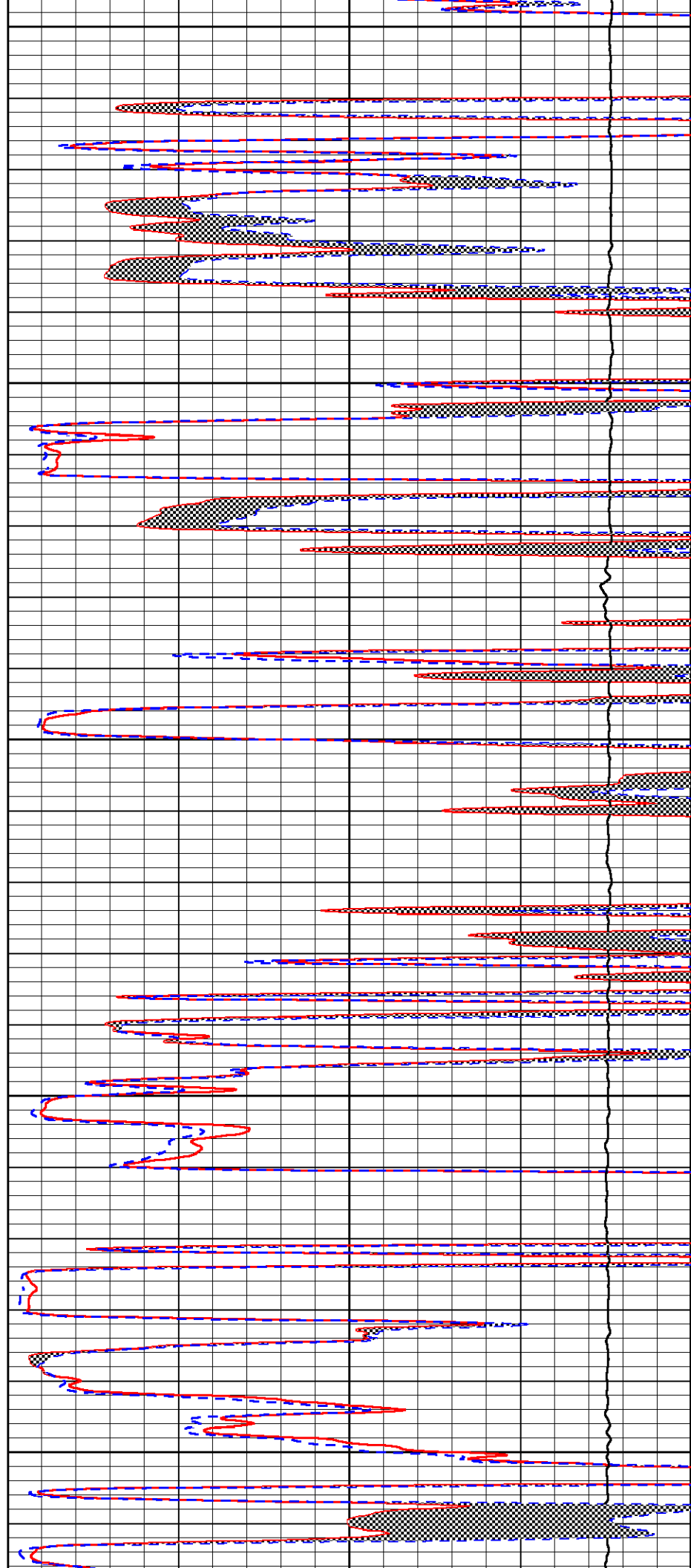
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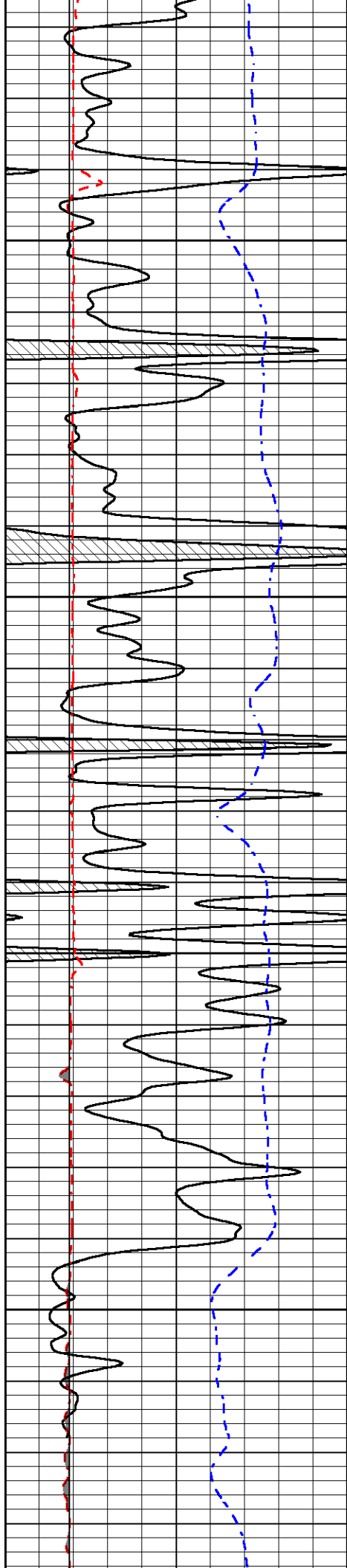
4250

4300

4350

4400



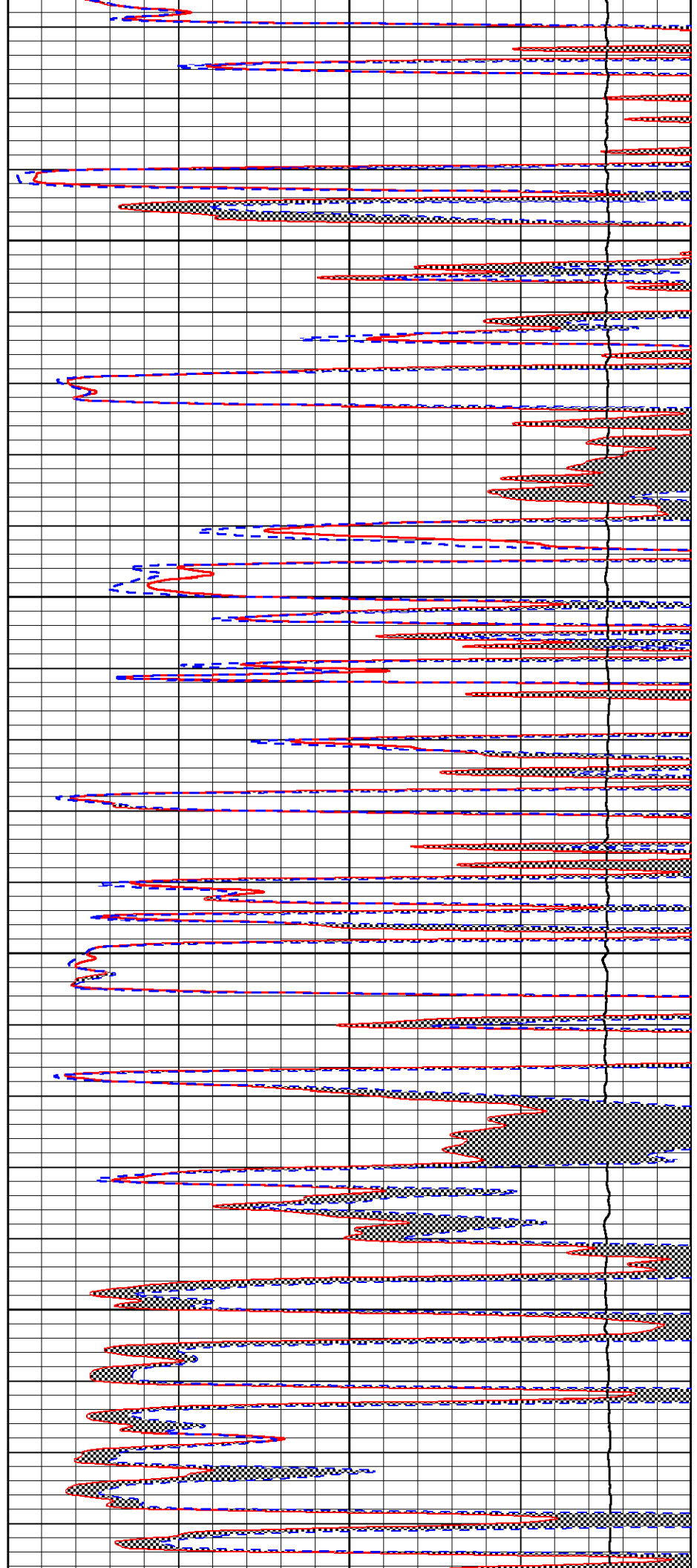


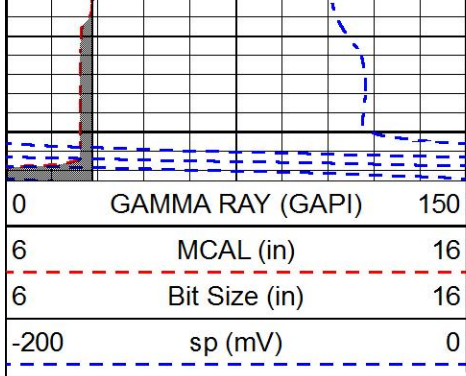
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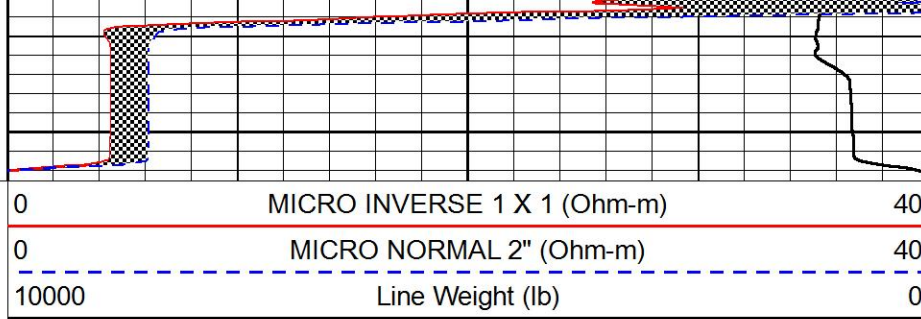
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4600





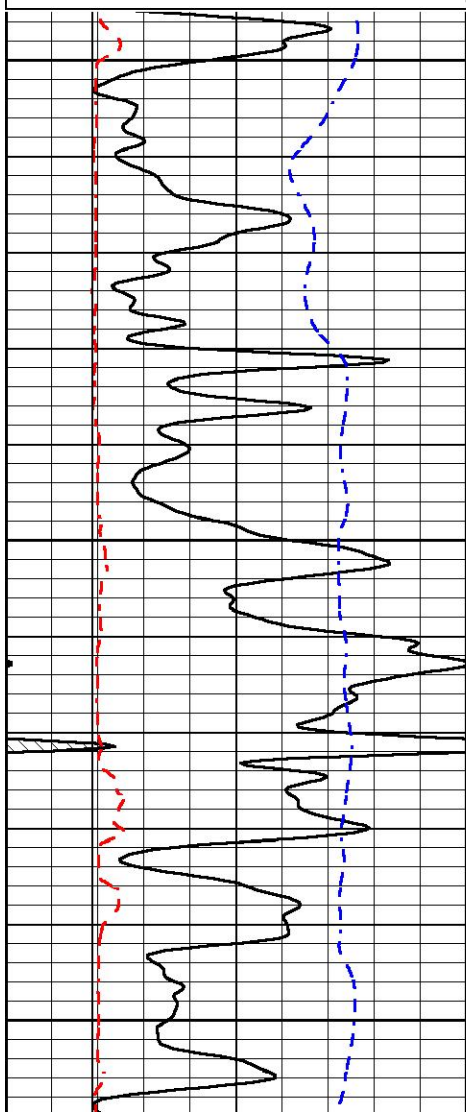
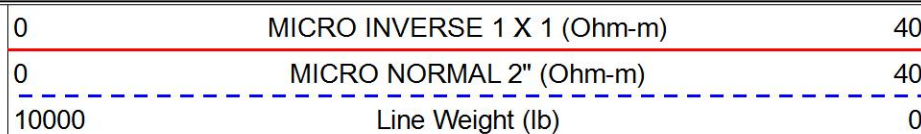
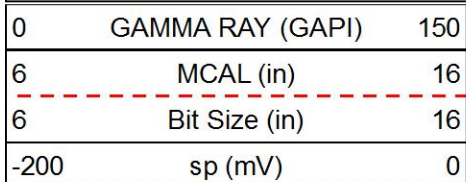
4650



MIDWEST WIRELINE

REPEAT SECTION

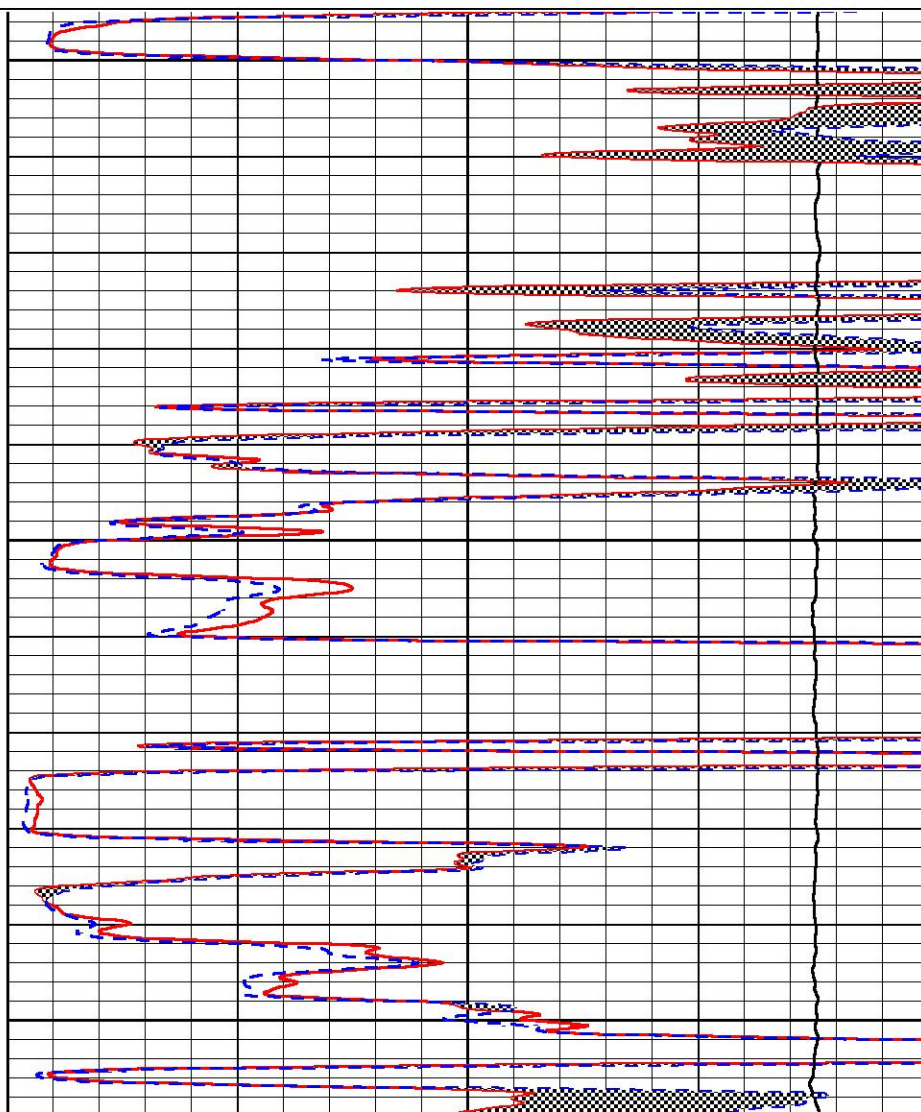
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 Dataset Pathname stack/pass3.1
 Presentation Format _micro
 Dataset Creation Thu Feb 04 07:33:04 2021
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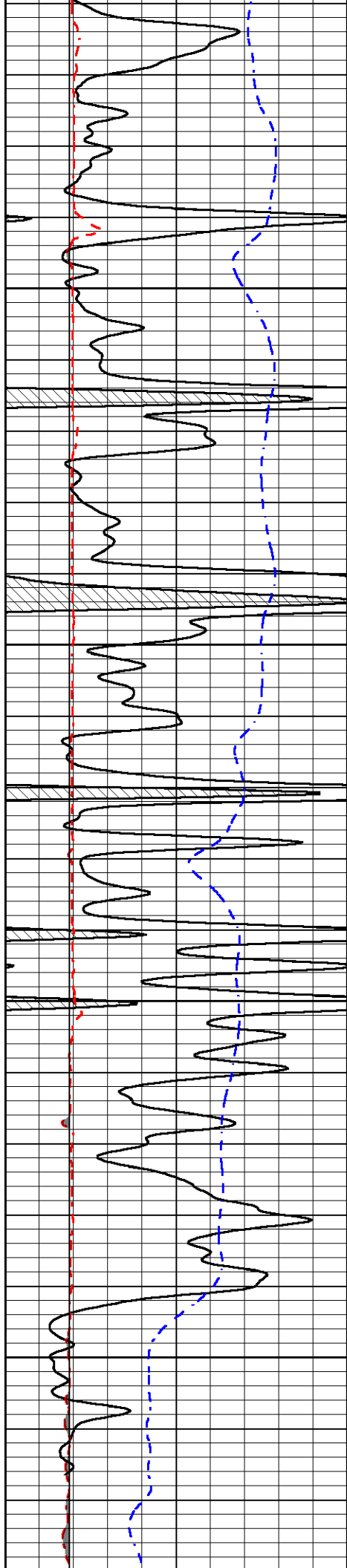


4300

4350

4400



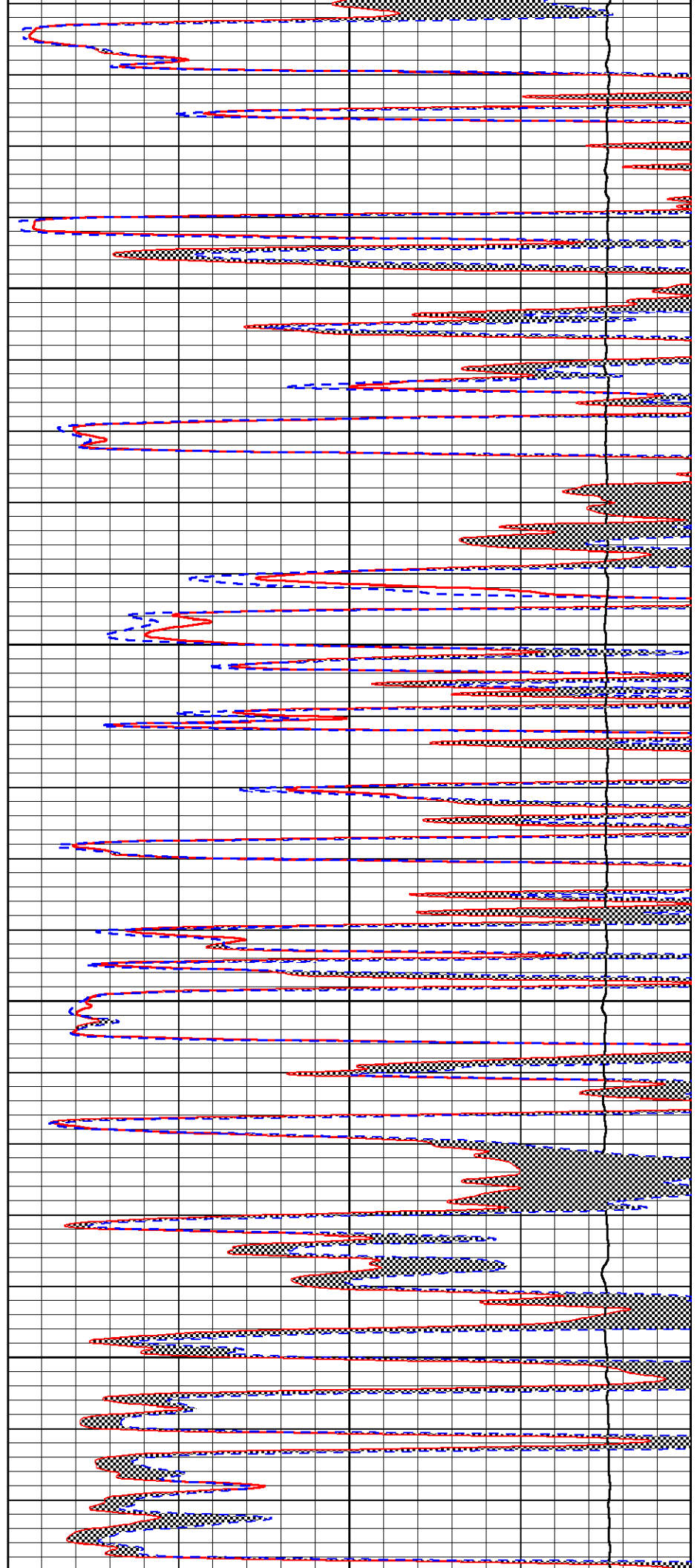


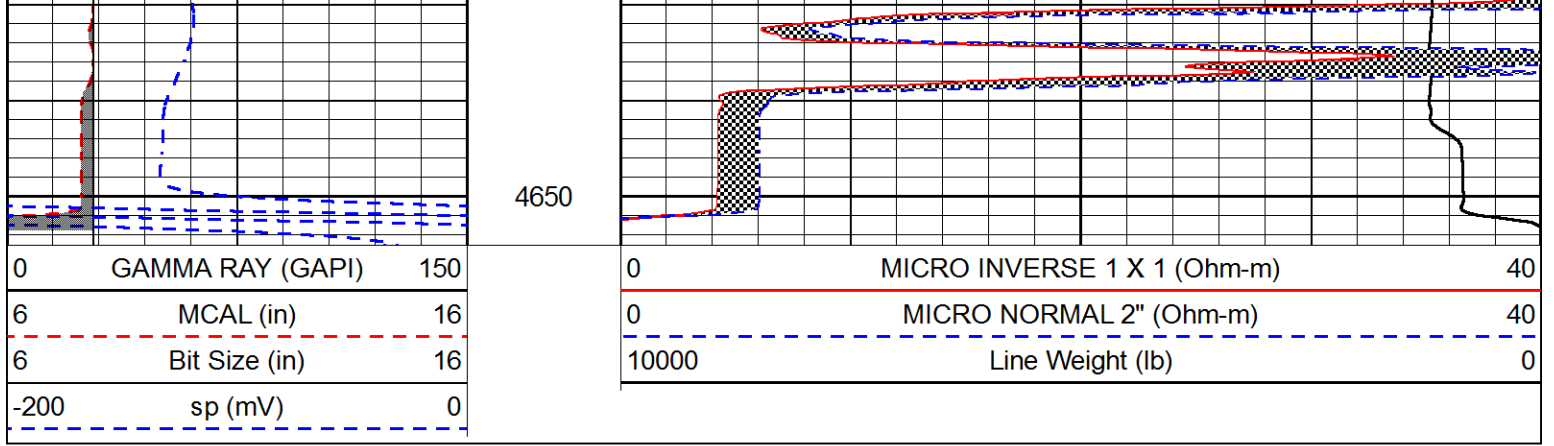
4450

4500

4550

4600





Calibration Report

Database File: talon_selfridge 2-11.db
 Dataset Pathname: stack/pass4.1
 Dataset Creation: Thu Feb 04 07:41:13 2021

Dual Induction Calibration Report

Serial-Model: 952-828-PSI HIGH TEMP
 Calibration Performed: Thu Feb 04 06:43:01 2021

Loop:	Readings		References		Results		
	Air	Loop	Air	Loop	Gain	Offset	
Deep	167.000	835.000	0.000	255.000	mmho/m	0.500	-39.000
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.335	-38.500

Compensated Density Calibration Report

Serial-Model: 817-947-M&W
 Source / Verifier: 16955B / 2ci
 Master Calibration Performed: Sun Sep 20 22:09:47 2020

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	6127.15	5922.31	cps
Aluminum	2.670	g/cc	1141.85	3762.09	cps

Spine Angle = 74.89 Density/Spine Ratio = 0.526

	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:	Sun Sep 20 22:10:24 2020	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps