



MICRORESISTIVITY LOG

MIDWEST WIRELINE

Company Carmen Schmitt, Inc.

Well Audrey #1

Field

County Sheridan State Kansas

Location: API #: 15-179-21484-00-00

SEC 30 TWP 8S RGE 30W

Permanent Datum Ground Level Elevation 2946

Log Measured From Kelly Bushing

Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
DIL

Elevation
K.B. 2951
D.F.
G.L. 2946

Date 5/21/2022

Run Number One

Depth Driller 4635

Depth Logger 4633

Bottom Logged Interval 4632

Top Log Interval 3600

Casing Driller 8.625 @ 265

Casing Logger 265

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 3300

Density / Viscosity 9.3 49

pH / Fluid Loss 11.5 6.4

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.55 @ 65

Rmt @ Meas. Temp 0.41 @ 65

Rmc @ Meas. Temp 0.74 @ 65

Source of Rmt / Rmc CHARTS

Rm @ BHT 0.29 @ 122

Operating Rig Time 3 Hours

Max Rec. Temp. F 122

Equipment Number P-24

Location Hays

Recorded By D. Schmidt

Witnessed By Brad Rine

<<< 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.

Menlo,
1 1/2 South, East into

Log Measured From: Kelly Bushing 5 Ft. Above Permanent Datum

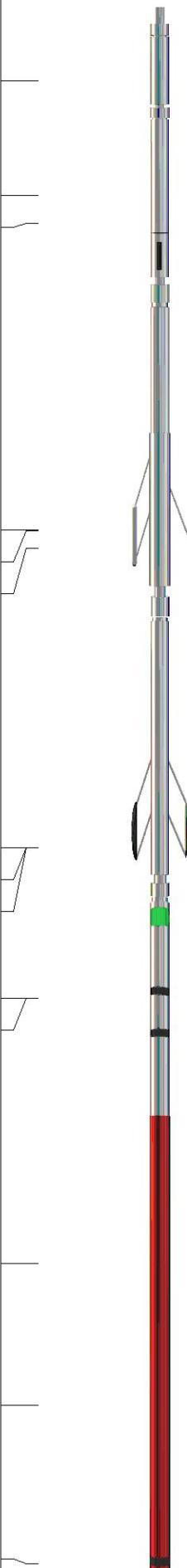
THANK YOU FOR USING MIDWEST WIRELINE LLC
785-625-3858

Your Midwest Wireline Crew

Engineer: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Brad Rine
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	40.33		GR-M&W (101)	3.00	3.50	50.00	
CNLSC CNSSC	37.23 36.48		CNT-M&W (207-MW)	5.00	3.50	100.00	
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (305-05)	8.50	4.00	250.00	
MCAL MI MN	19.58 19.58 19.58		ML-PSIML (402)	7.58	4.00	65.00	
RLL3F RLL3	15.50 15.50		DIL-M&W (502 HT)	18.25	3.50	220.00	
CILD	8.33						
CILM	4.50						
SP	0.20						
Dataset: carmen schmitt_audrey 1.db: field/well/stkml/pass3.19 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\carmen schmitt_audrey 1.db
Dataset field/well/stkml/pass3.19/_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	-70	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	85	40		4633

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



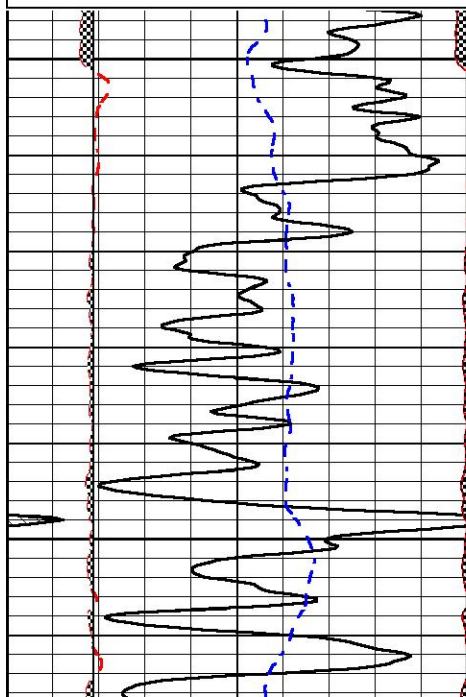
DETAIL SECTION

MAIN PASS

Database File carmen schmitt_audrey 1.db
Dataset Pathname stkml/pass3.1
Presentation Format _micro
Dataset Creation Sat May 21 06:41:02 2022
Charted by Depth in Feet scaled 1:240

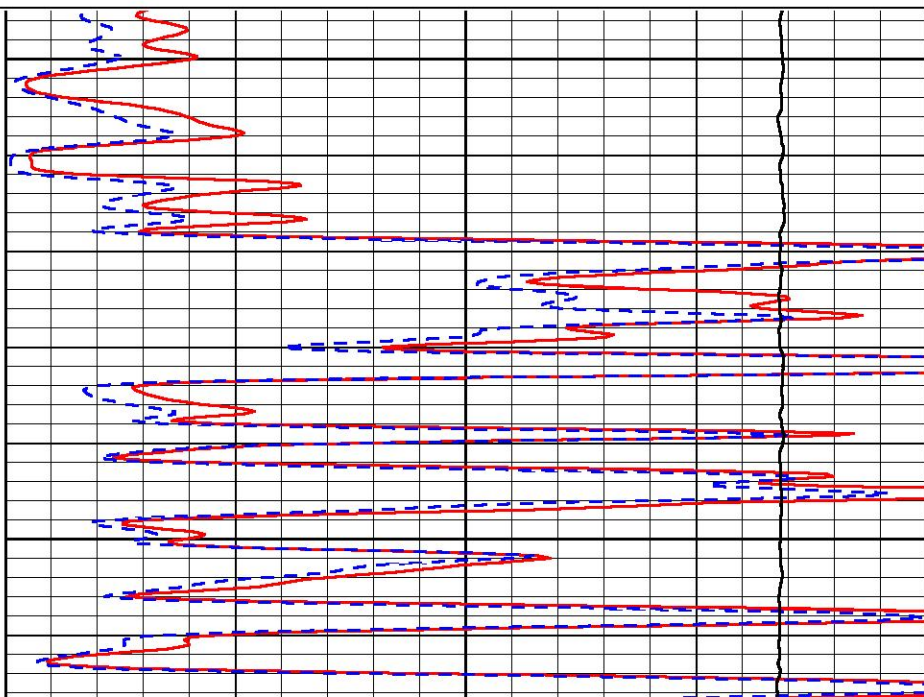
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
-2.875	mcal (in)	7.875
-200	sp (mV)	0

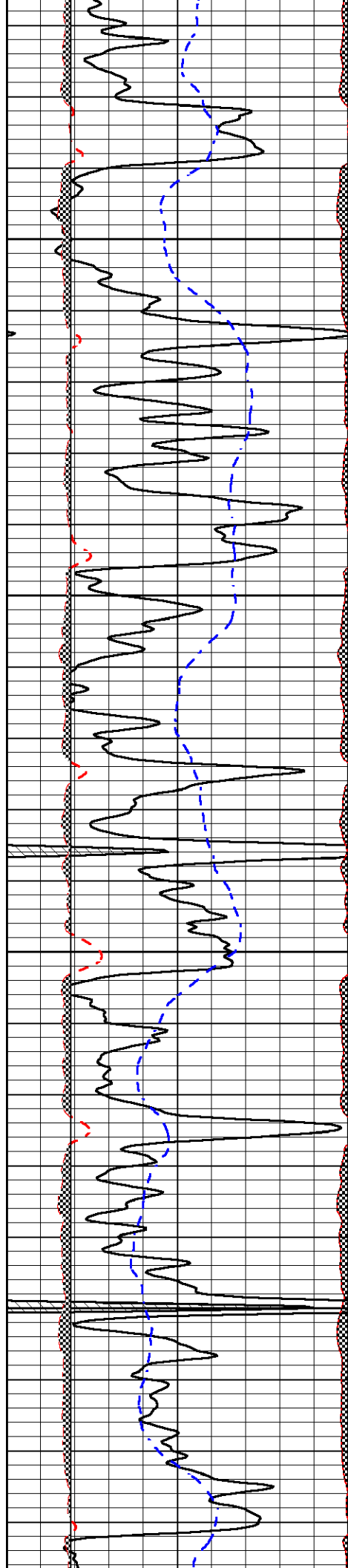
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3600

3650



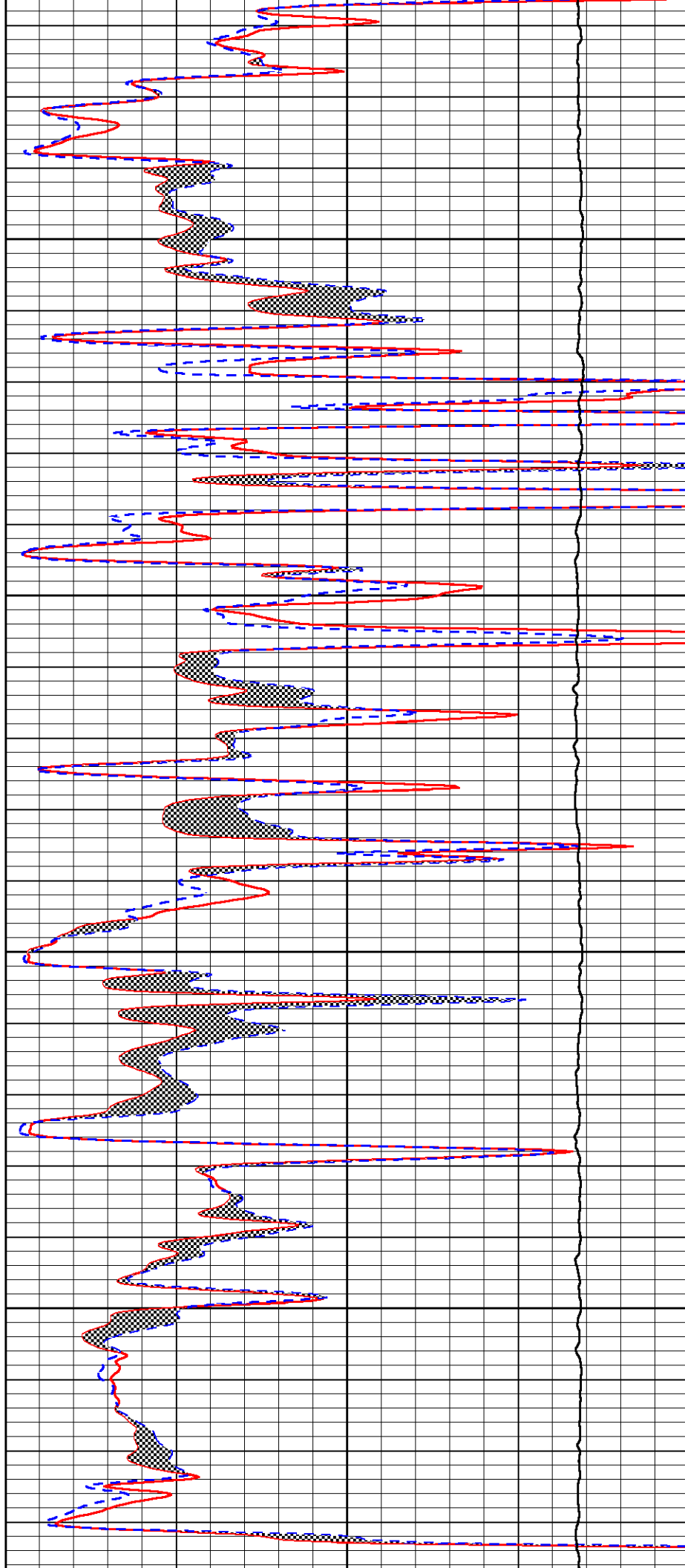


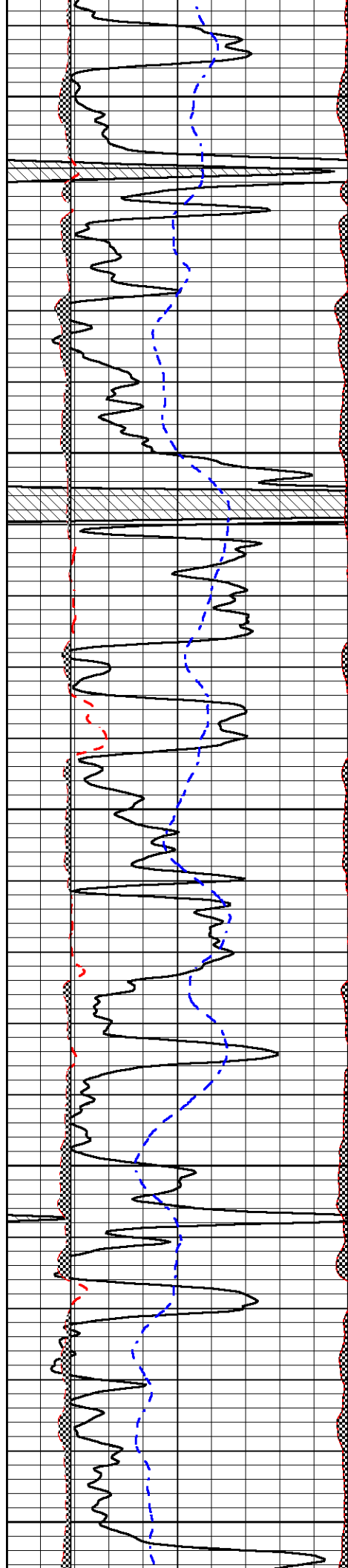
3700

3750

3800

3850





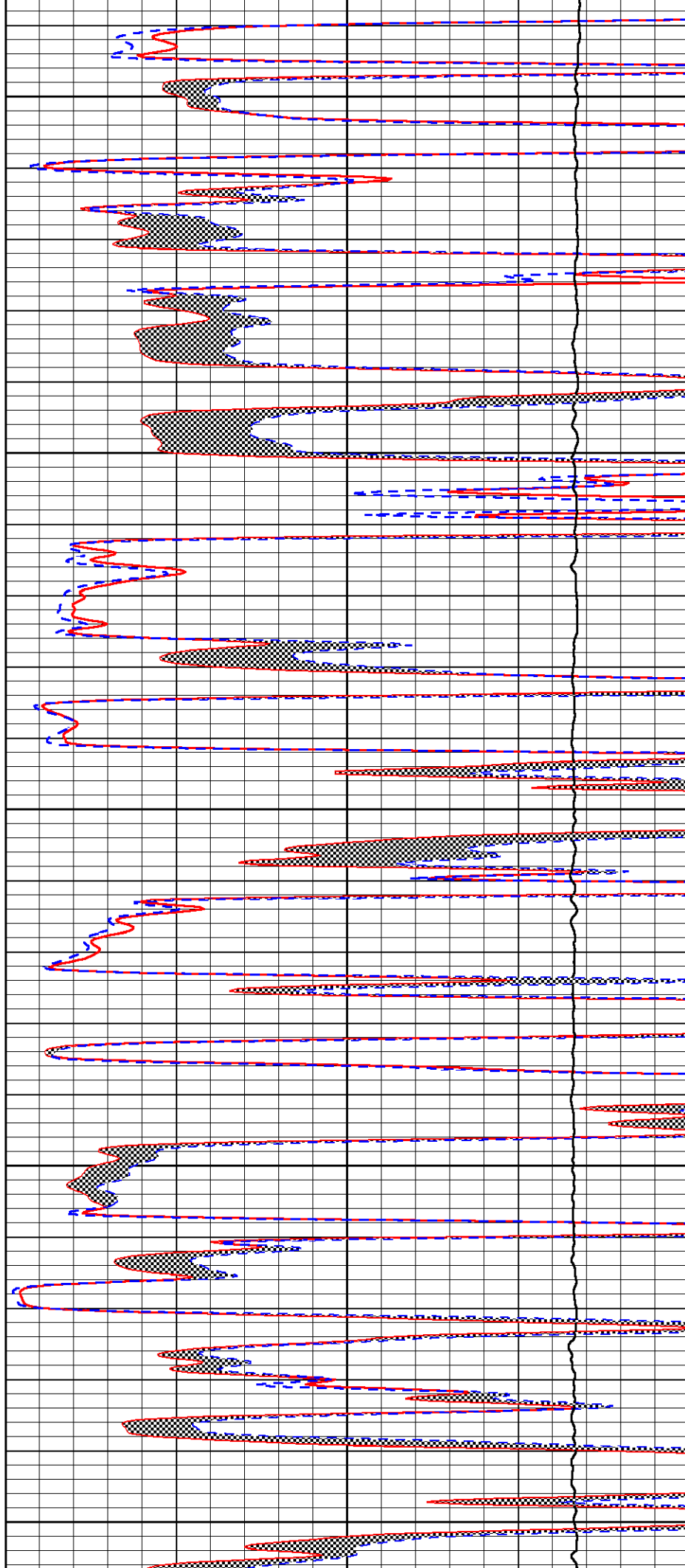
3900

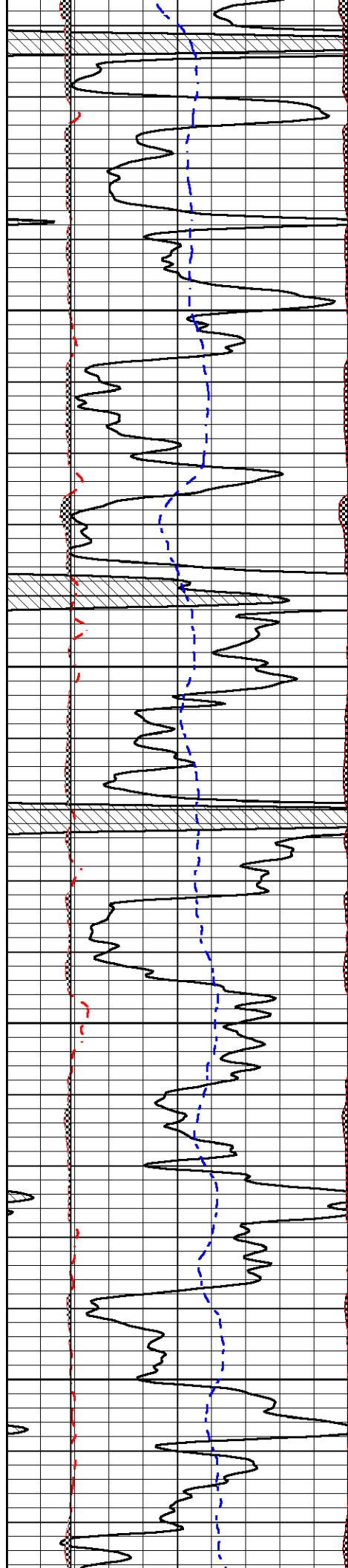
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4000

4050

4100



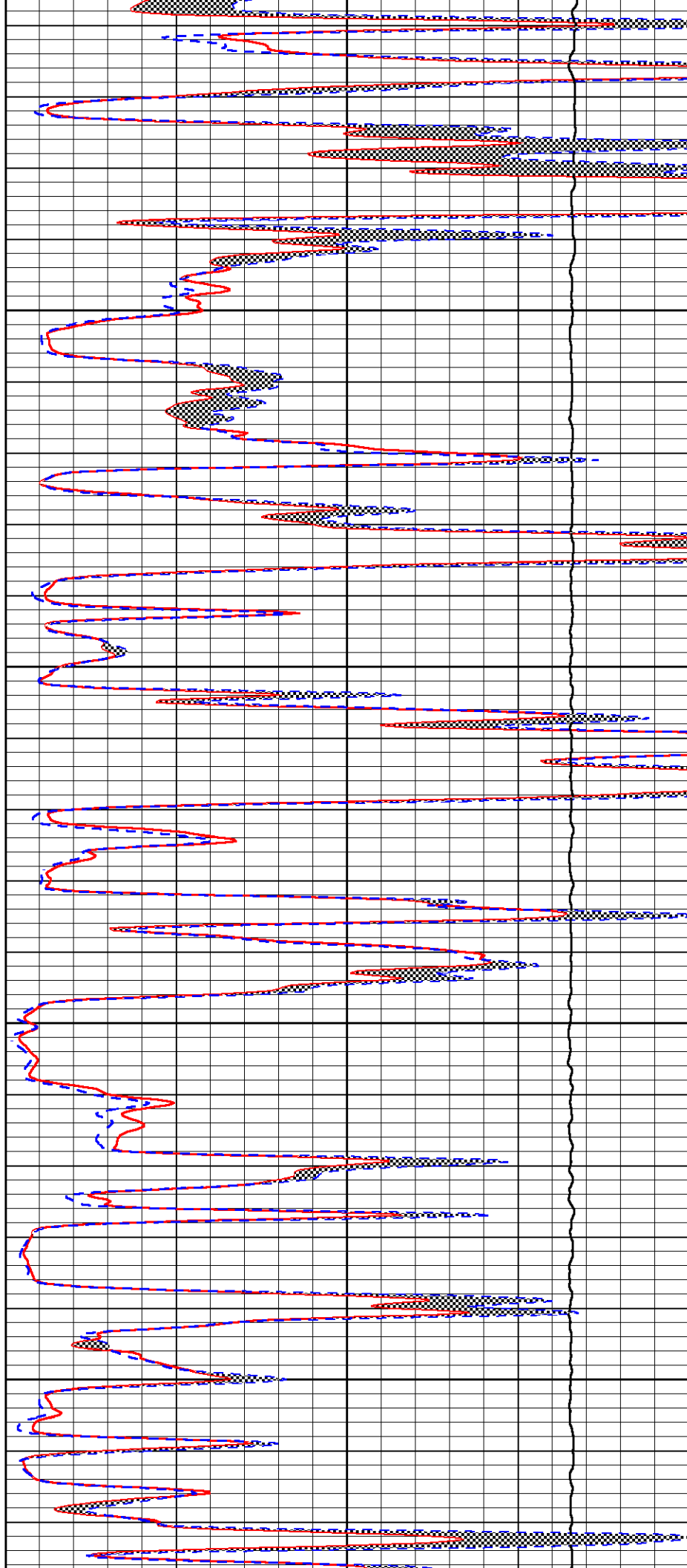


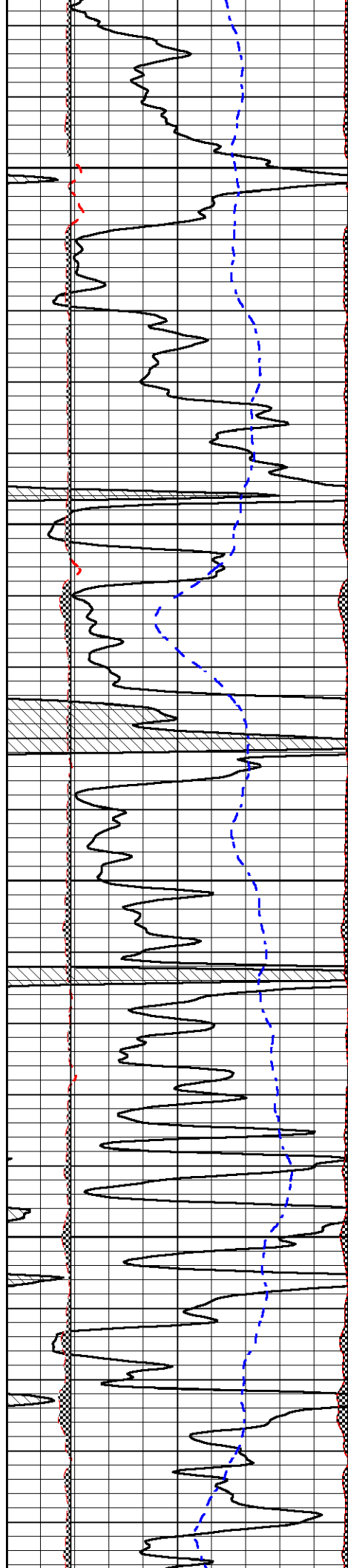
4150

4200

4250

4300



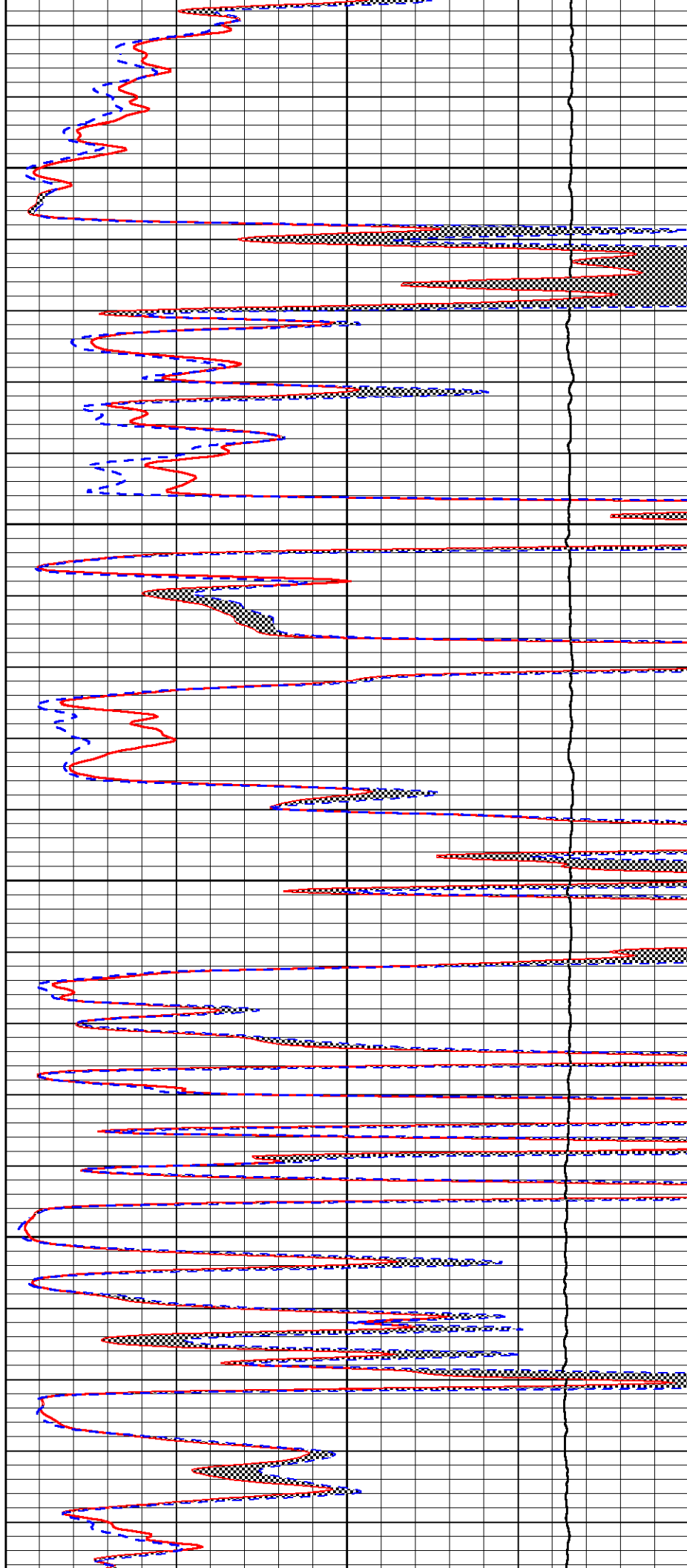


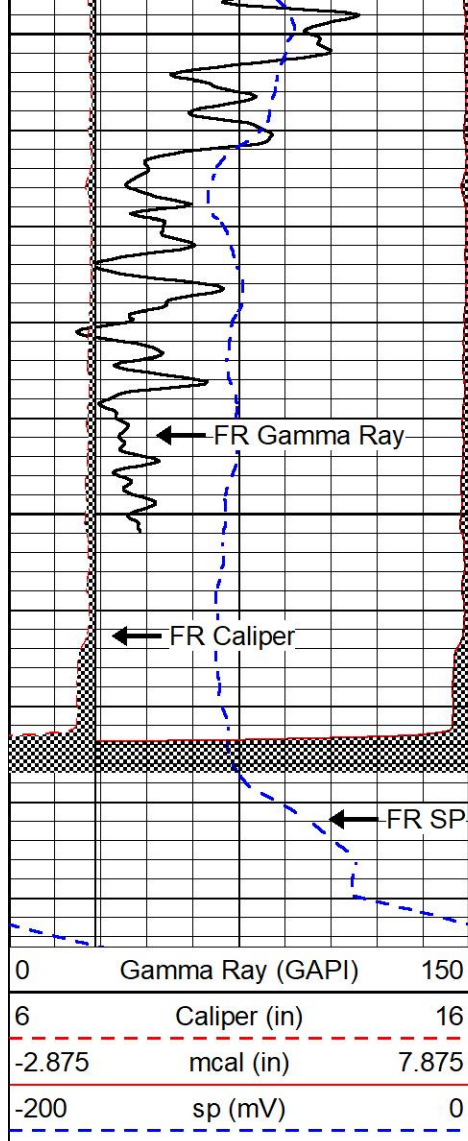
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4400

4450

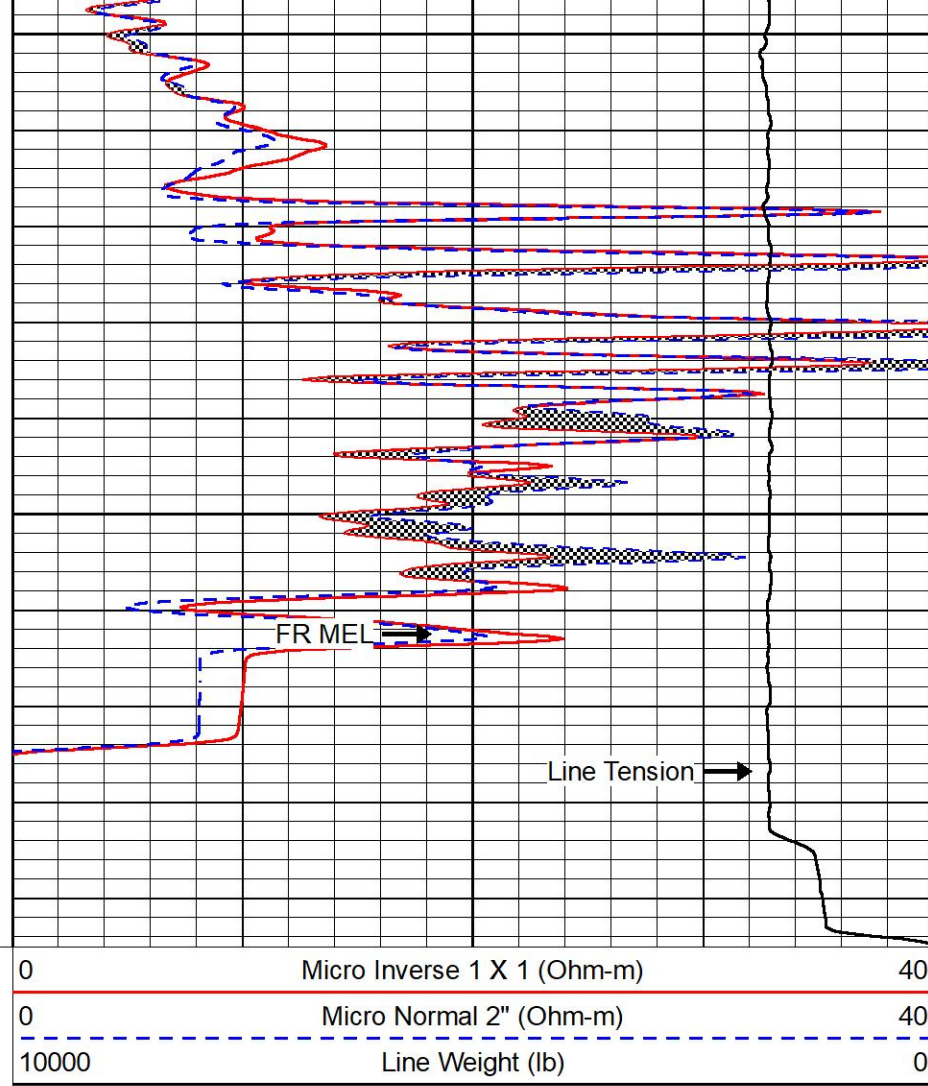
4500





4550

4600

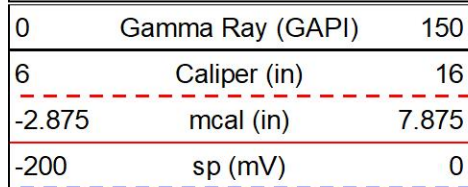


MIDWEST WIRELINE

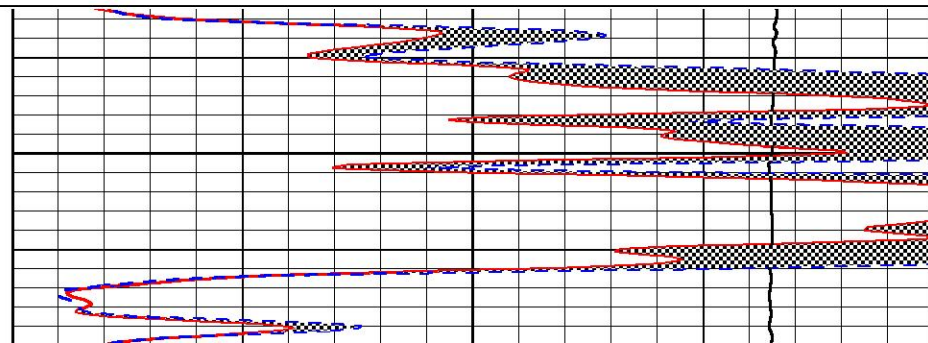
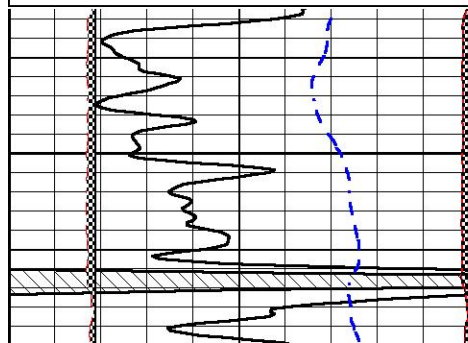
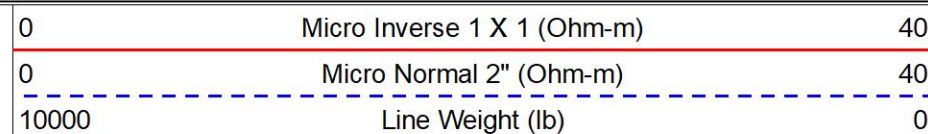
REPEAT SECTION

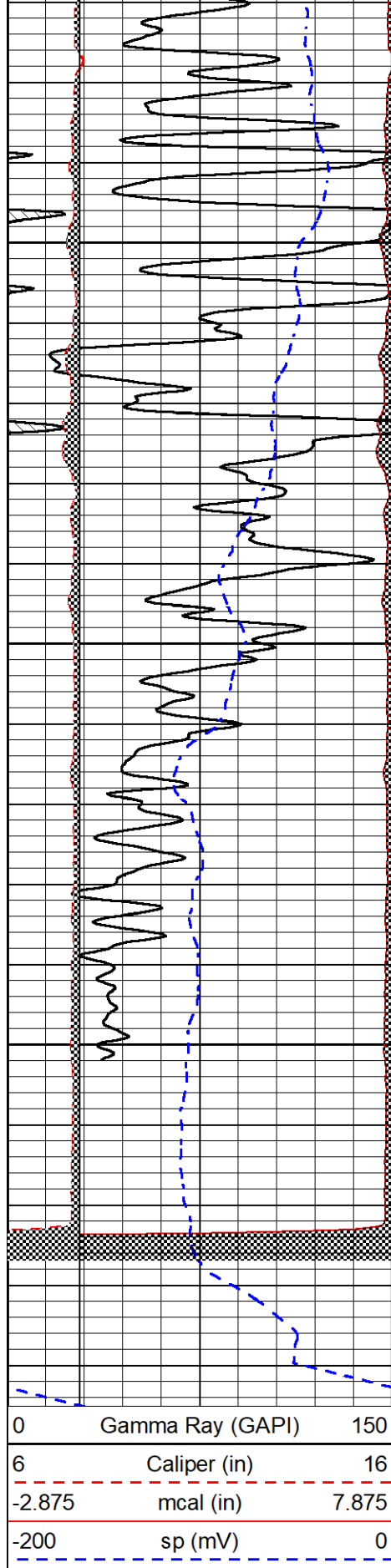
REPEAT PASS

Database File carmen schmitt_audrey 1.db
 Dataset Pathname stkml/pass2.1
 Presentation Format _micro
 Dataset Creation Sat May 21 06:02:01 2022
 Charted by Depth in Feet scaled 1:240



4450

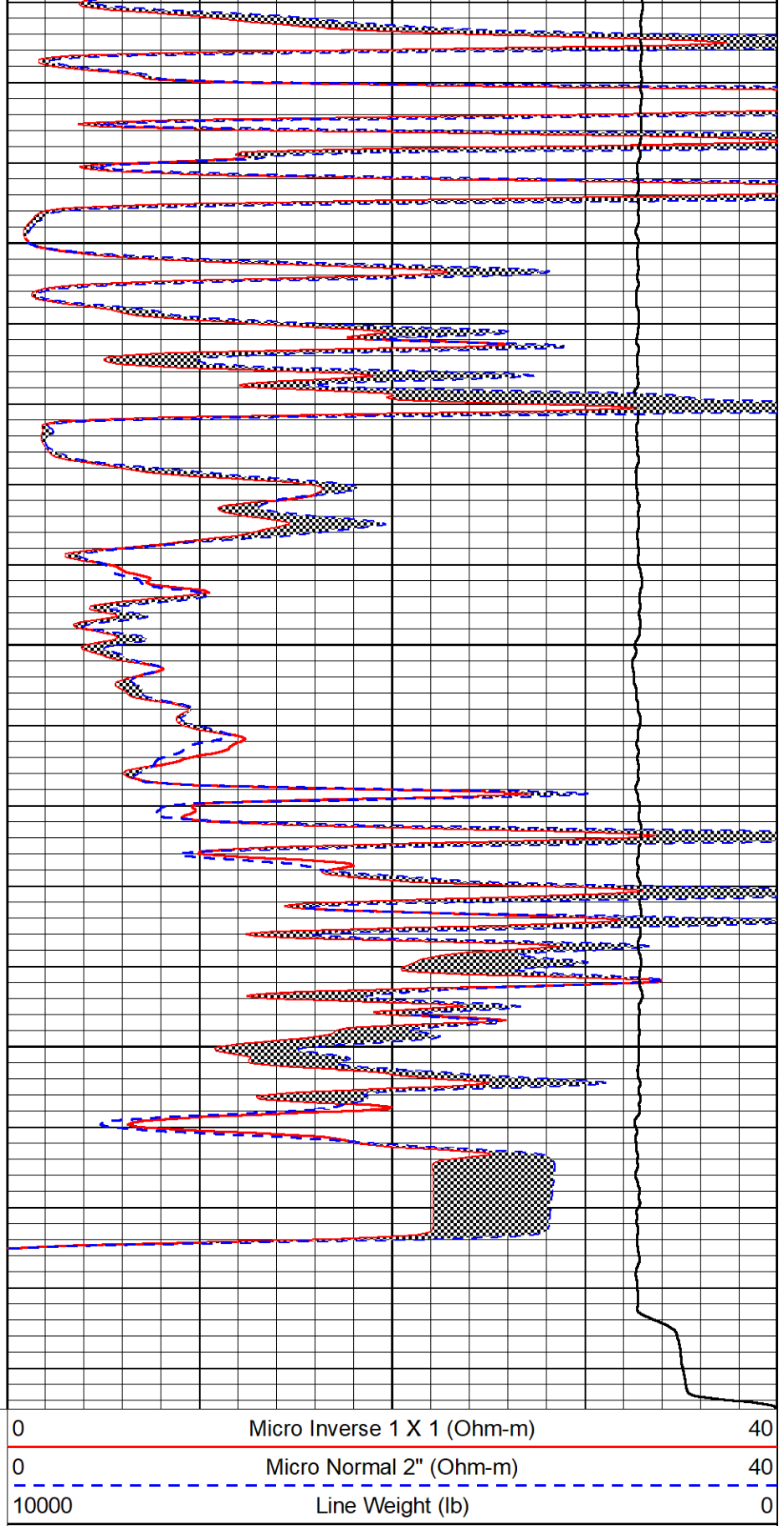




4500

4550

4600



Calibration Report

Database File carmen schmitt_audrey 1.db
 Dataset Pathname stkml/pass3.19
 Dataset Creation Sat May 21 06:13:51 2022

Dual Induction Calibration Report

Serial-Model:
Surface Cal Performed:

502 HT-M&W
Wed Feb 9 17:39:00 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	83.639	487.104	0.000	183.000	mmho/m	0.454	-34.500
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.350	-10.000

Microlog Calibration Report

Serial-Model:
Performed:

402-PSIML
Mon Jan 24 20:31:16 2022

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	32500.0000	-2.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	32000.0000	-1.2000
Caliper	1.0052	1.0858	5.0000	16.5000	in	65.0000	-59.8500

Compensated Density Calibration Report

Serial-Model:
Source #:
Master Calibration Performed:

305-05-M&W
20762B
Fri Apr 22 07:18:08 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8862.47	9339.96	cps
Aluminum	2.600	g/cc	1556.73	5707.29	cps
Spine Angle = 74.19			Density/Spine Ratio = 0.467		
	Size		Reading		
Small Ring	4.00	in	1.74		
Large Ring	14.00	in	1.38		

Compensated Neutron Calibration Report

Serial-Model:
Source #:
Master Calibration Performed:

207-MW-M&W
100046B
Mon Nov 29 15:06:24 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:
Tool Model:
Performed:

101
M&W
Mon Jan 24 19:11:46 2022

Performed:

Mon Jan 24 15:14:40 2022

Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.5500	GAPI/cps



MIDWEST WIRELINE

Company	Carmen Schmitt, Inc.
Well	Audrey #1
Field	
County	Sheridan
State	Kansas