



MIDWEST WIRELINE

MICRORESISTIVITY LOG

Company **Gore Oil Company**
 Well **Lynd #9**
 Field **Zeman North**
 County **Trego** State **Kansas**

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Location: **API #: 15-195-23132-00-00**
993 FSL & 867 FEL
SEC 28 TWP 11S RGE 21W
 Permanent Datum **Ground Level** Elevation **2322**
 Log Measured From **Kelly Bushing**
 Drilling Measured From **Kelly Bushing**
 Other Services **CNL/CDL DIL/BHCS**
 Elevation **K.B. 2330 D.F. G.L. 2322**

Date	3/10/2022
Run Number	One
Depth Driller	4100
Depth Logger	4101
Bottom Logged Interval	4100
Top Log Interval	3250
Casing Driller	8.625 @ 308
Casing Logger	302
Bit Size	7.875
Type Fluid in Hole	Chemical
Salinity, ppm CL	4000
Density / Viscosity	9.1 56
pH / Fluid Loss	10.0 6.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.40 @ 68
Rmt @ Meas. Temp	.30 @ 68
Rmc @ Meas. Temp	.54 @ 68
Source of Rmf / Rmc	CHARTS
Rm @ BHT	.23 @ 117
Operating Rig Time	4 Hours
Max Rec. Temp. F	117
Equipment Number	P-108
Location	HAYS
Recorded By	J. Henrickson
Witnessed By	Marc Downing

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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.

Riga Exit I70
 6 North to F, 1/4 West,
 North Into

Log Measured From: **Kelly Bushing** 8 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: **J. Henrickson**
 Operator:
 Operator:
 Operator:

This Log Record Was Witnessed By

Primary Witness: **Marc Downing**
 Secondary Witness:
 Secondary Witness:
 Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\gore_lynd_9.db
 Dataset field/well/stackml/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	114	5.5	0	1	2	2.71
NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	400	50	Off	4101

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC CNSSC	37.23 36.48		CNT-M&W (210)	5.00	3.50	100.00
LSD DCAL SSD	28.18 28.17 27.68		CDL-M&W (306-06)	8.50	4.00	250.00
MCAL MI MN	19.58 19.58 19.58		ML-PSI STKBL ML (402)	7.58	4.00	65.00
RLL3F RLL3	15.50 15.50					
CILD	8.33		DIL-M&W (504 HT)	18.25	3.50	220.00

CILM 4.50

SP 0.20

Dataset: gore_lynd_9.db: field/well/stackml/pass4.1
 Total length: 42.33 ft
 Total weight: 685.00 lb
 O.D.: 4.00 in



MIDWEST WIRELINE

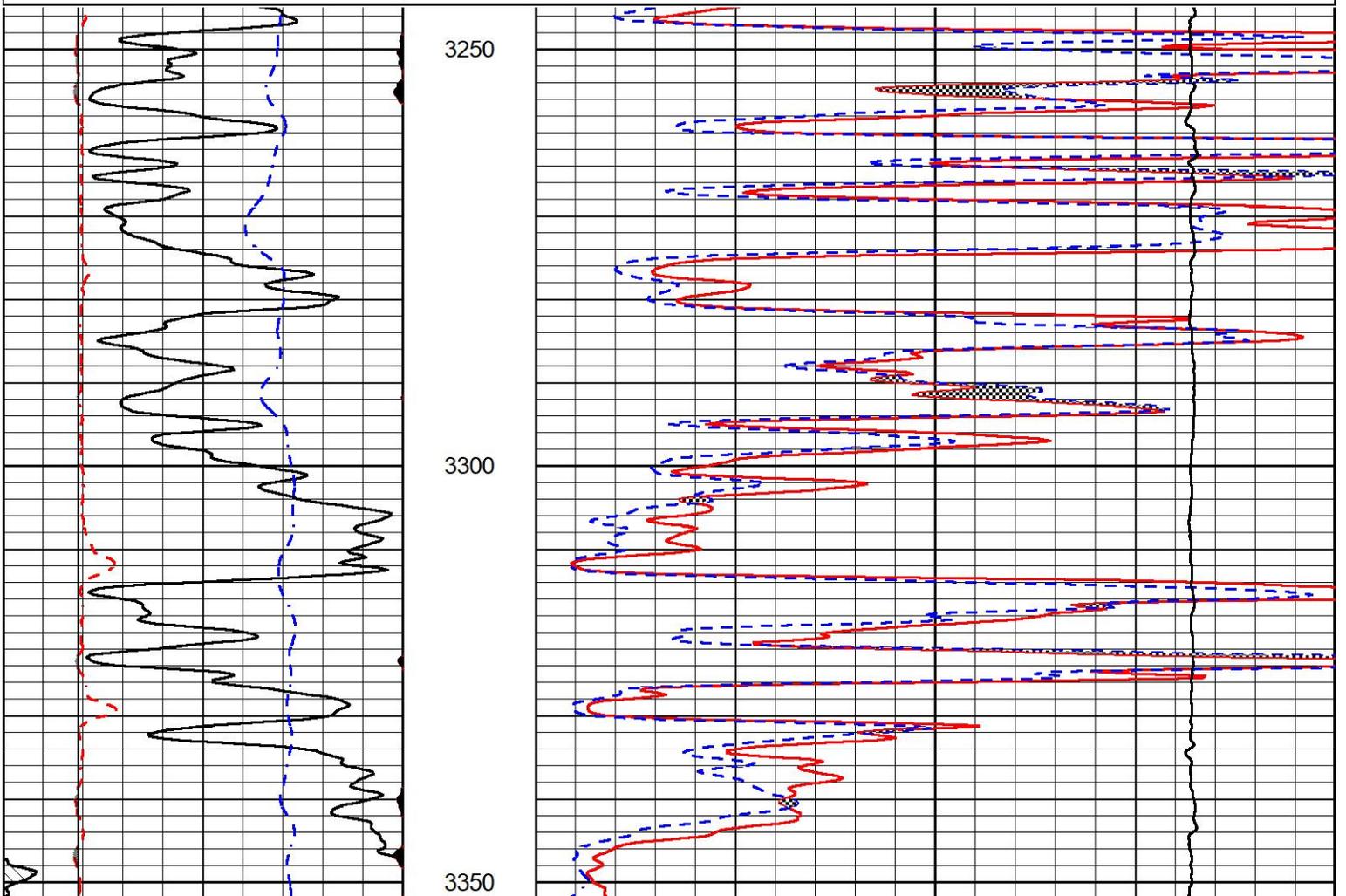
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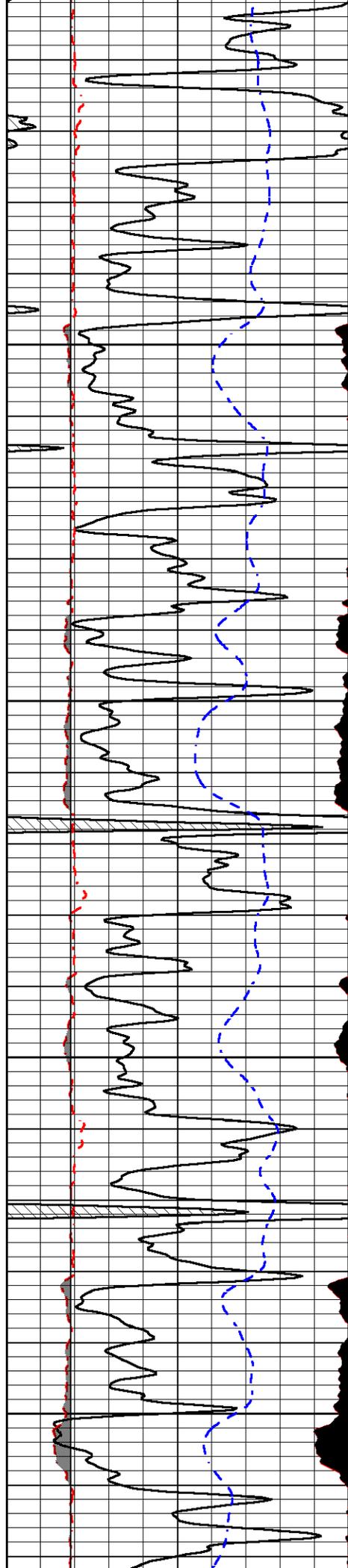
MAIN PASS

Database File: gore_lynd_9.db
 Dataset Pathname: stackml/pass4.1
 Presentation Format: _micro
 Dataset Creation: Fri Mar 11 00:50:20 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



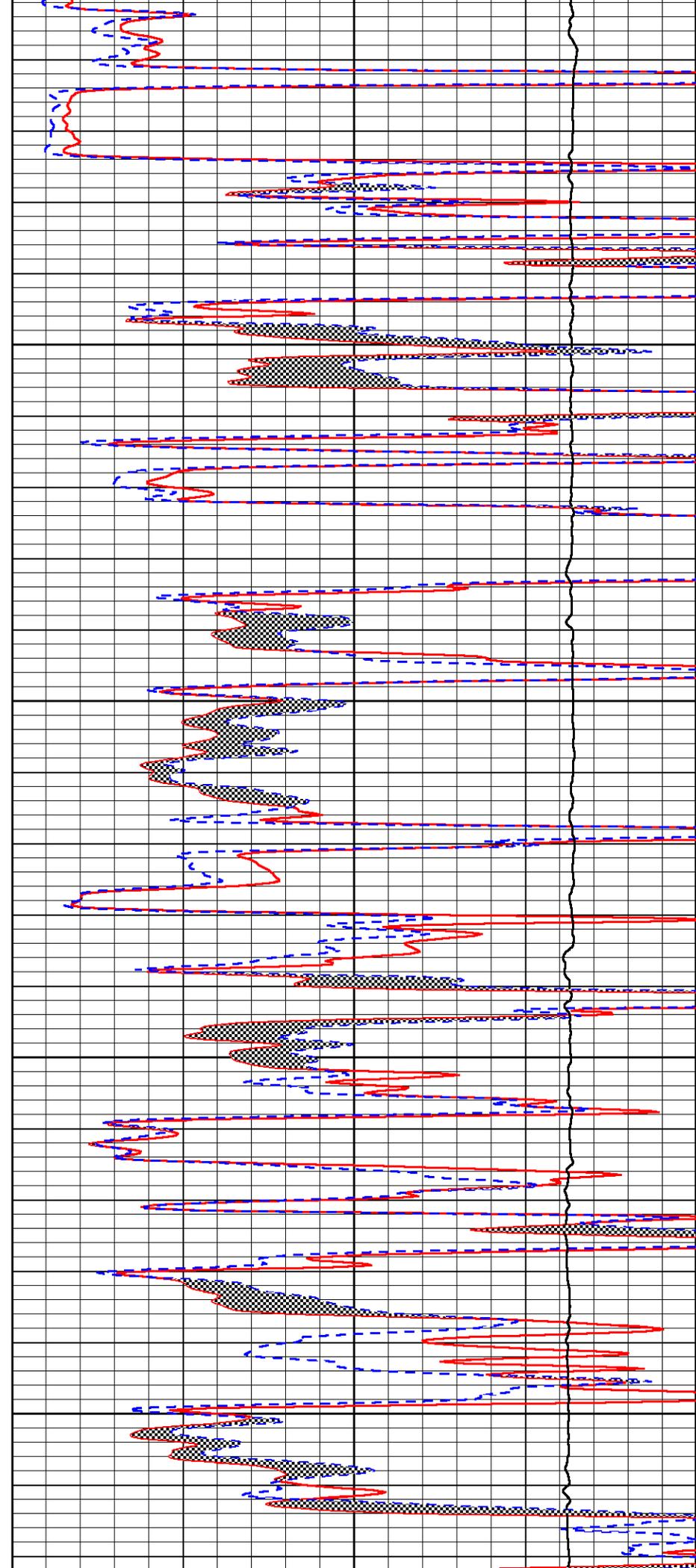


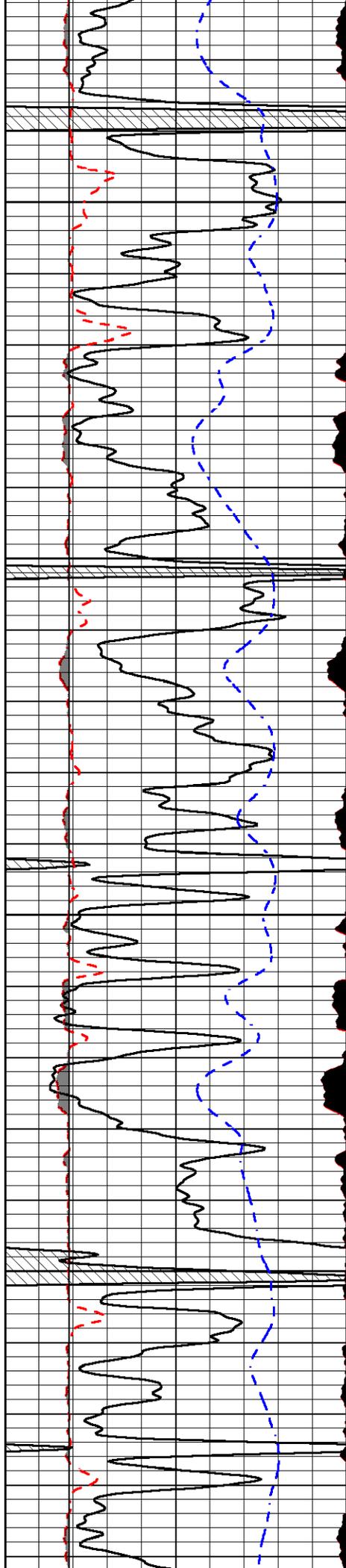
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3450

3500

3550



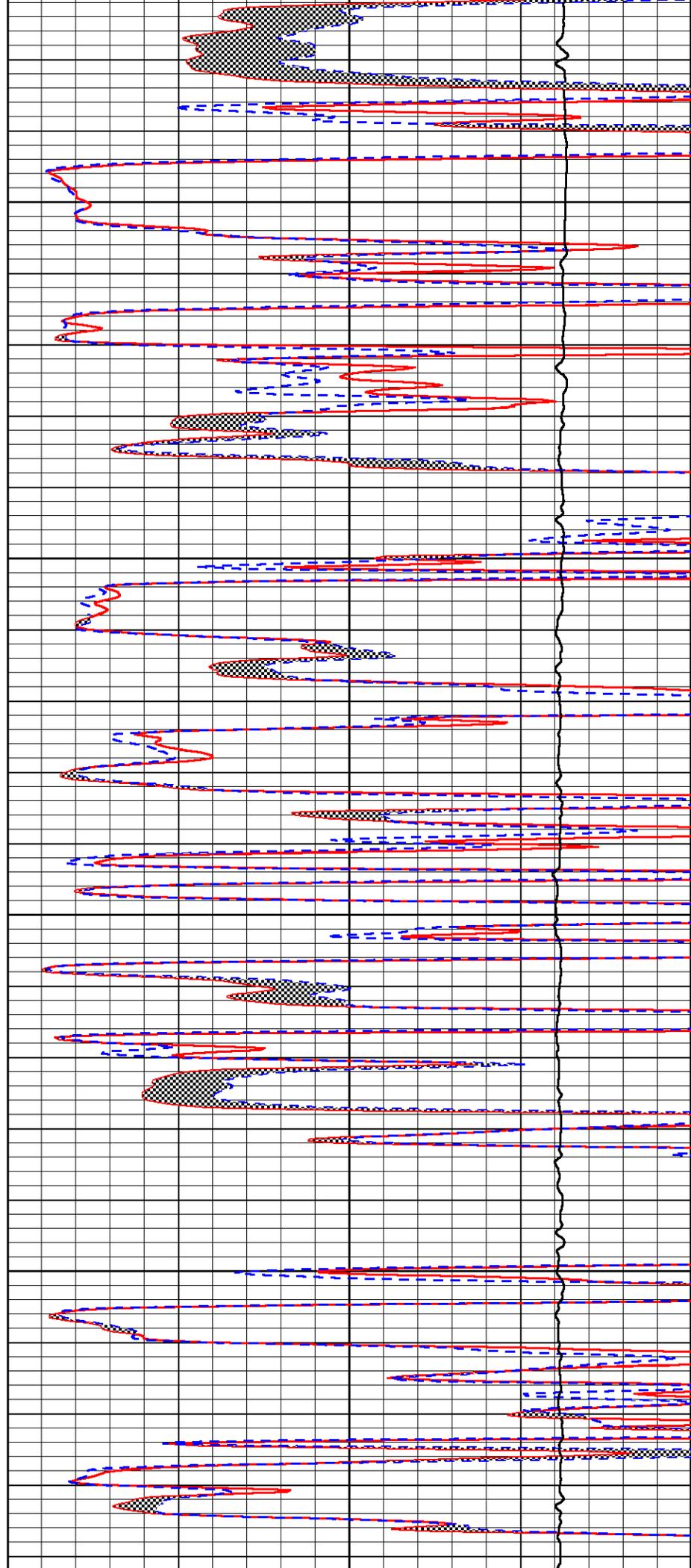


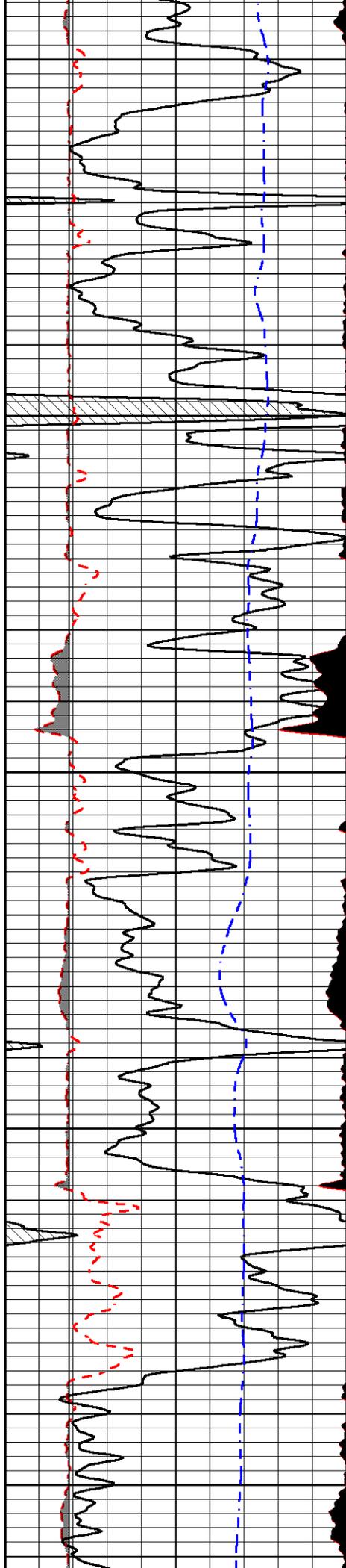
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3750





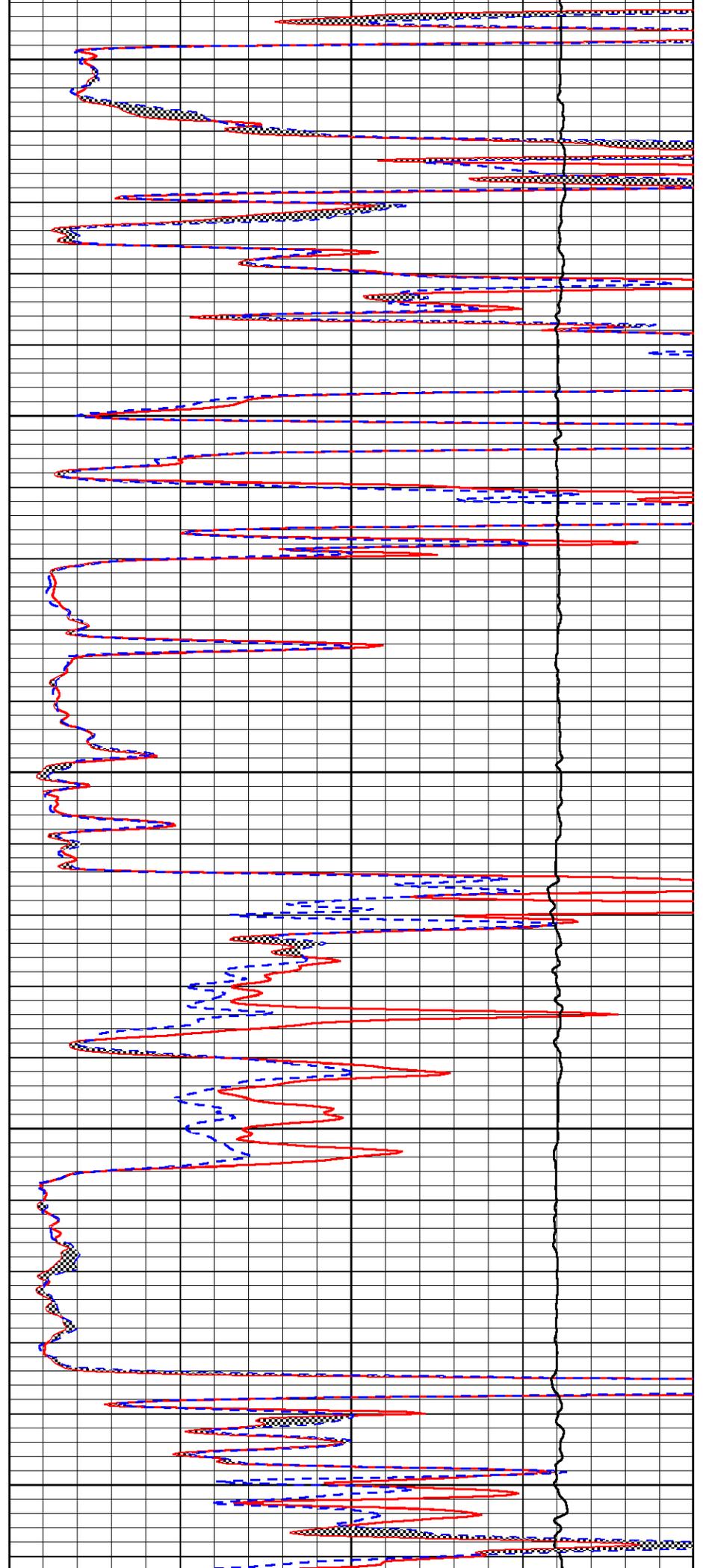
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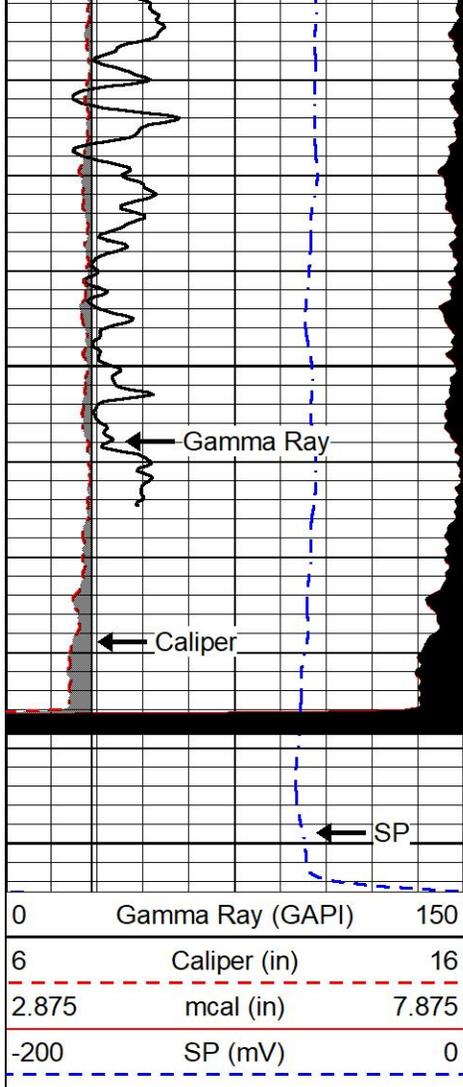
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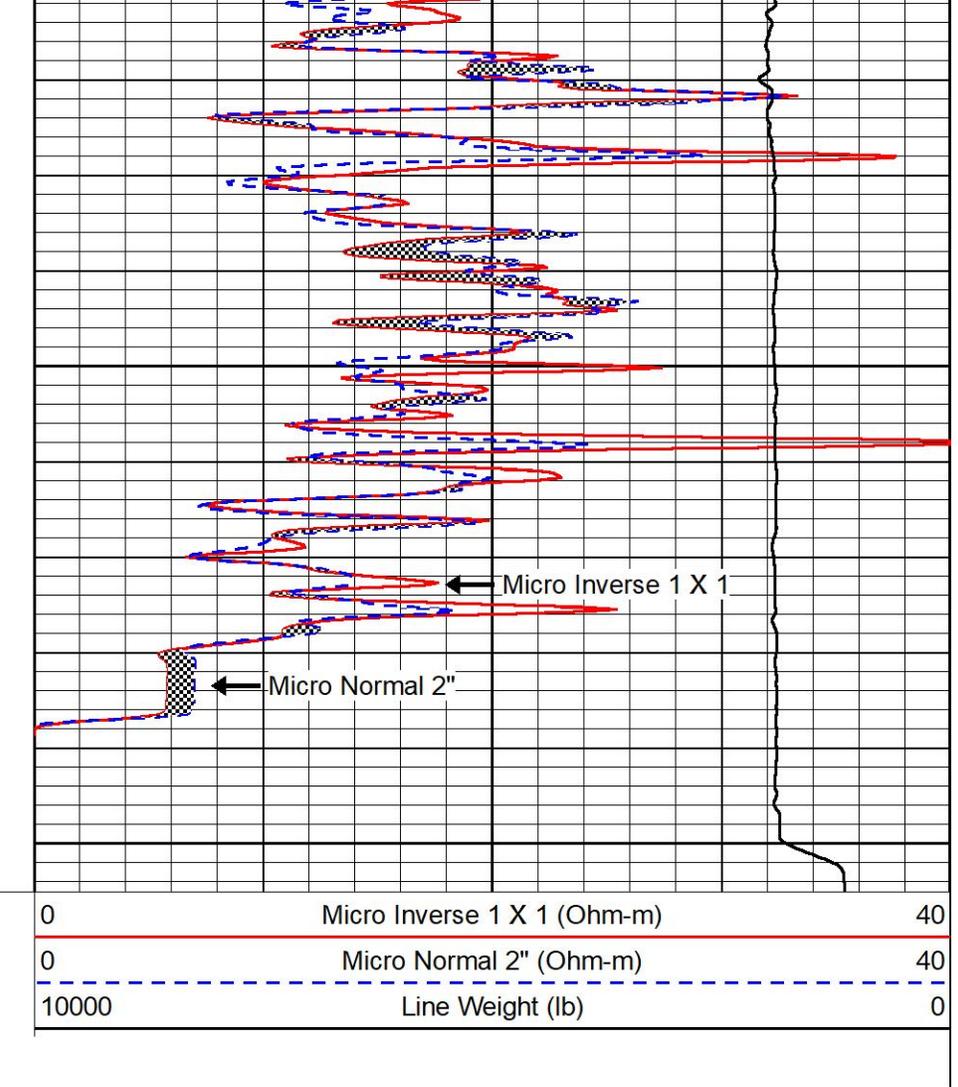
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4050

4100

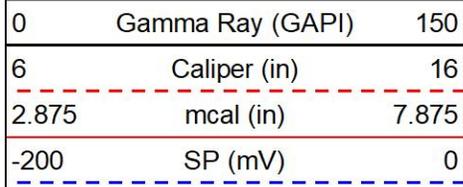


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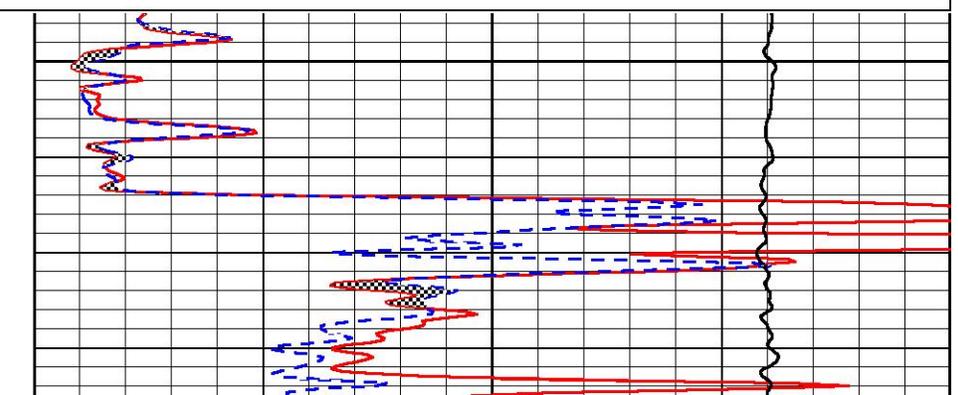
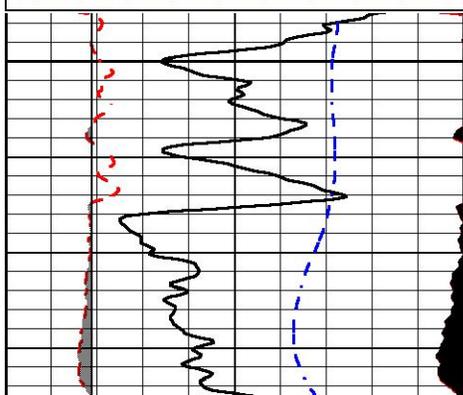
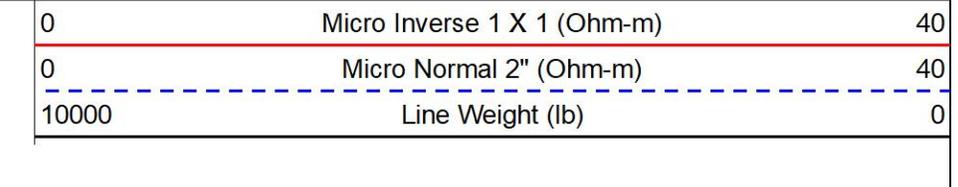
REPEAT SECTION

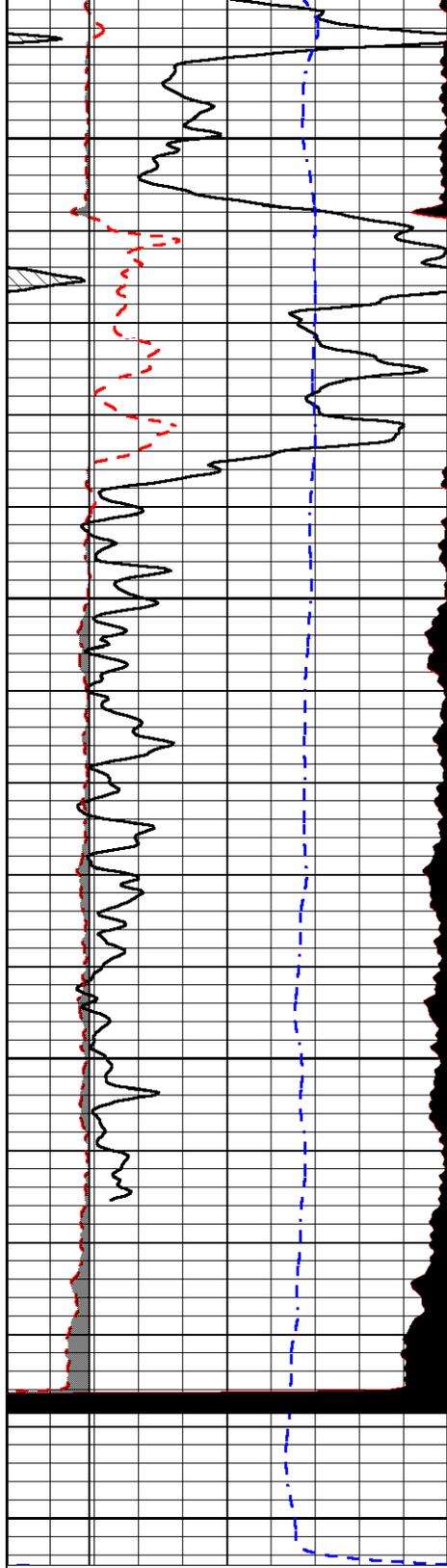
REPEAT PASS

Database File gore_lynd_9.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _micro
 Dataset Creation Fri Mar 11 00:48:56 2022
 Charted by Depth in Feet scaled 1:240

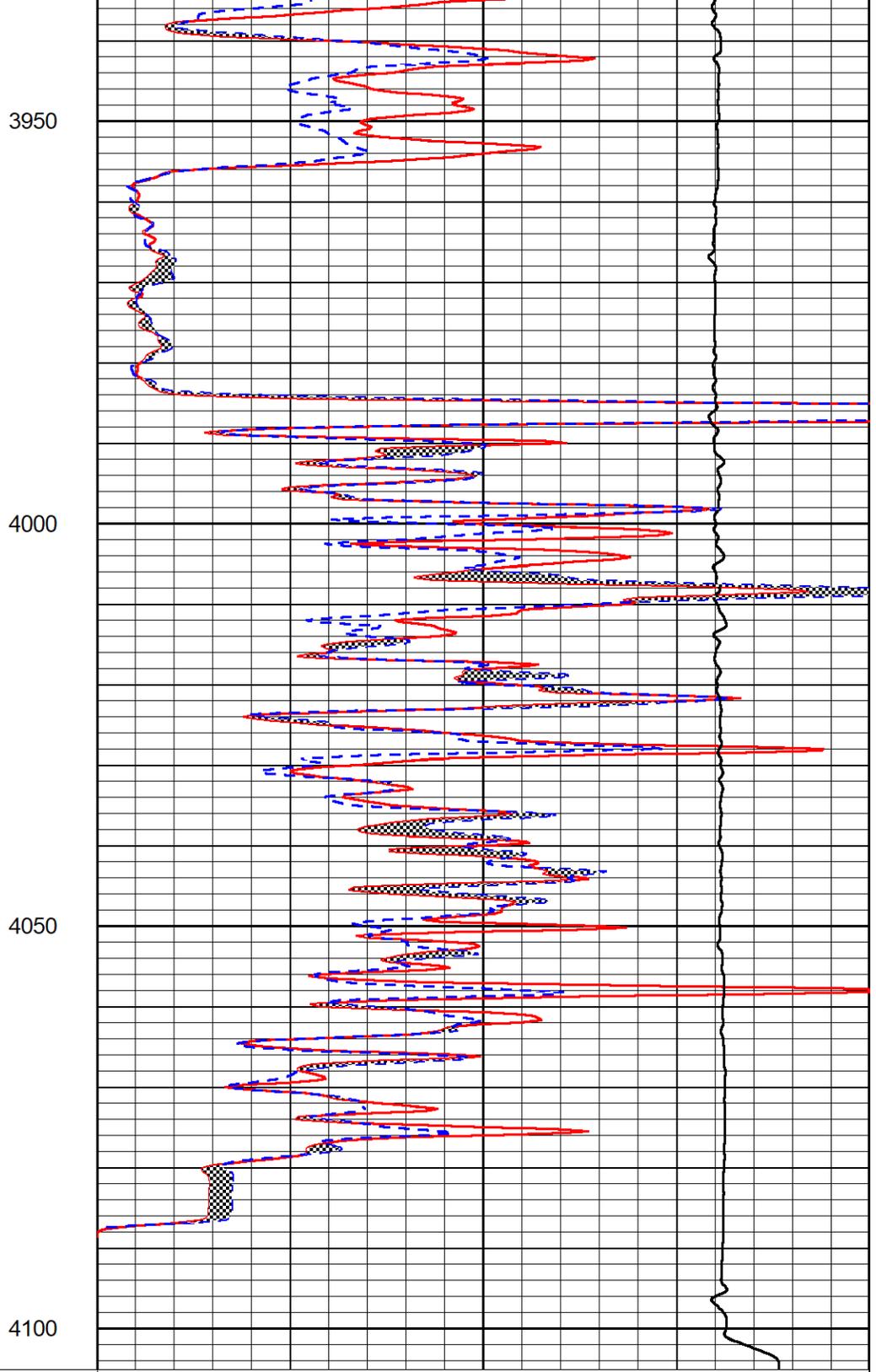


3900





0	Gamma Ray (GAPI)	150
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-200	SP (mV)	0



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

Calibration Report

Database File gore_lynd_9.db
 Dataset Pathname stackml/pass4.1
 Dataset Creation Fri Mar 11 00:50:20 2022

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-19.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report

Serial-Model: 402-PSI STKBL ML
Performed: Thu Dec 16 22:29:48 2021

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	24000.0000	-1.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	20000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.2000

Compensated Density Calibration Report

Serial-Model: 306-06-M&W
Source #: 21170B
Master Calibration Performed: Tue Dec 14 14:05:52 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	5193.26	4968.12	cps
Aluminum	2.650	g/cc	962.25	3144.87	cps
Spine Angle = 74.82			Density/Spine Ratio = 0.512		
	Size		Reading		
Small Ring	4.00	in	1.02		
Large Ring	14.00	in	1.11		

Compensated Neutron Calibration Report

Serial-Model: 210-M&W
Source #: N-1238
Master Calibration Performed: Fri Dec 3 09:16:24 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: 103
Tool Model: M&W
Performed: Fri Dec 3 12:13:24 2021

Calibrator Value:	500.0	GAPI
Background Reading:	28.0	cps
Calibrator Reading:	986.0	cps
Sensitivity:	0.5700	GAPI/cps



Company	Gore Oil Company
Well	Lynd #9
Field	Zeman North
County	Trego
State	Kansas