



PIONEER
Pioneer Energy Services

MICRORESISTIVITY LOG

Company	K-BAR OIL	Location:	API #: 15-009-26290-00-00	Other Services
Well	KREHBIEL #2			
Field	RICK			
County	BARTON			
State	KANSAS			
Permanent Datum	GROUND LEVEL	Elevation	1779'	Elevation
Log Measured From	KELLY BUSHING			K.B. 1789'
Drilling Measured From	KELLY BUSHING			D.F. N/A
				G.L. 1779'
Date	6/16/2020			
Run Number	ONE			
Depth Driller	3450'			
Depth Logger	3450'			
Bottom Logged Interval	3449'			
Top Log Interval	2200'			
Casing Driller	8.625" @ 282'			
Casing Logger	281'			
Bit Size	7.875"			
Type Fluid in Hole	CHEMICAL			
Salinity, ppm CL	4000			
Density / Viscosity	9.0 58			
pH / Fluid Loss	10.0 8.8			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.60 @ 80			
Rmt @ Meas. Temp	0.45 @ 80			
Rmc @ Meas. Temp	0.81 @ 80			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.43 @ 111			
Operating Rig Time	3 HOURS			
Max Rec. Temp. F	111			
Equipment Number	P-24			
Location	HAYS			
Recorded By	D. SCHMIDT			
Witnessed By	HERB DEINES			

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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.

CLAFLIN,
EAST TO COUNTY LINE, 8 SOUTH,
EAST INTO

Log Measured From: KELLY BUSHING 10 Ft. Above Permanent Datum

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

Your Pioneer Energy Services Crew

Engineer: D. SCHMIDT
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: HERB DEINES
Secondary Witness:
Secondary Witness:
Secondary Witness:

Sensor	Offset (ft)	Schematic		Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.58			GR-M&W (233-M&W)	3.00	3.50	50.00
CNLSC CNSSC	37.48 36.73			CNT-M&W (207-MW)	5.50	3.50	100.00
LSD DCAL SSD	28.43 28.42 27.93			CDL-M&W (817-947)	8.50	4.00	250.00
ML-PSIML (PSI-01) GO Micro log tools converted to Simplec electronics					7.58	4.00	65.00
MCAL MI MN	19.83 19.83 19.83						
RLL3F RLL3	15.80 15.80						
CILD	8.00			DIL-PSI HIGH TEMP (952-828)	18.50	3.50	220.00
CILM	4.70						
SP	0.20						
Dataset: k-bar oil_krehbiel 2.db: field/well/STKML/pass3.1 Total length: 43.08 ft Total weight: 685.00 lb O.D.: 4.00 in							

Log Variables

DatabaseC:\ProgramData\Warrior\Data\k-bar oil_krehbiel 2.db
Dataset field/well/STKML/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	100	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	635	0		0

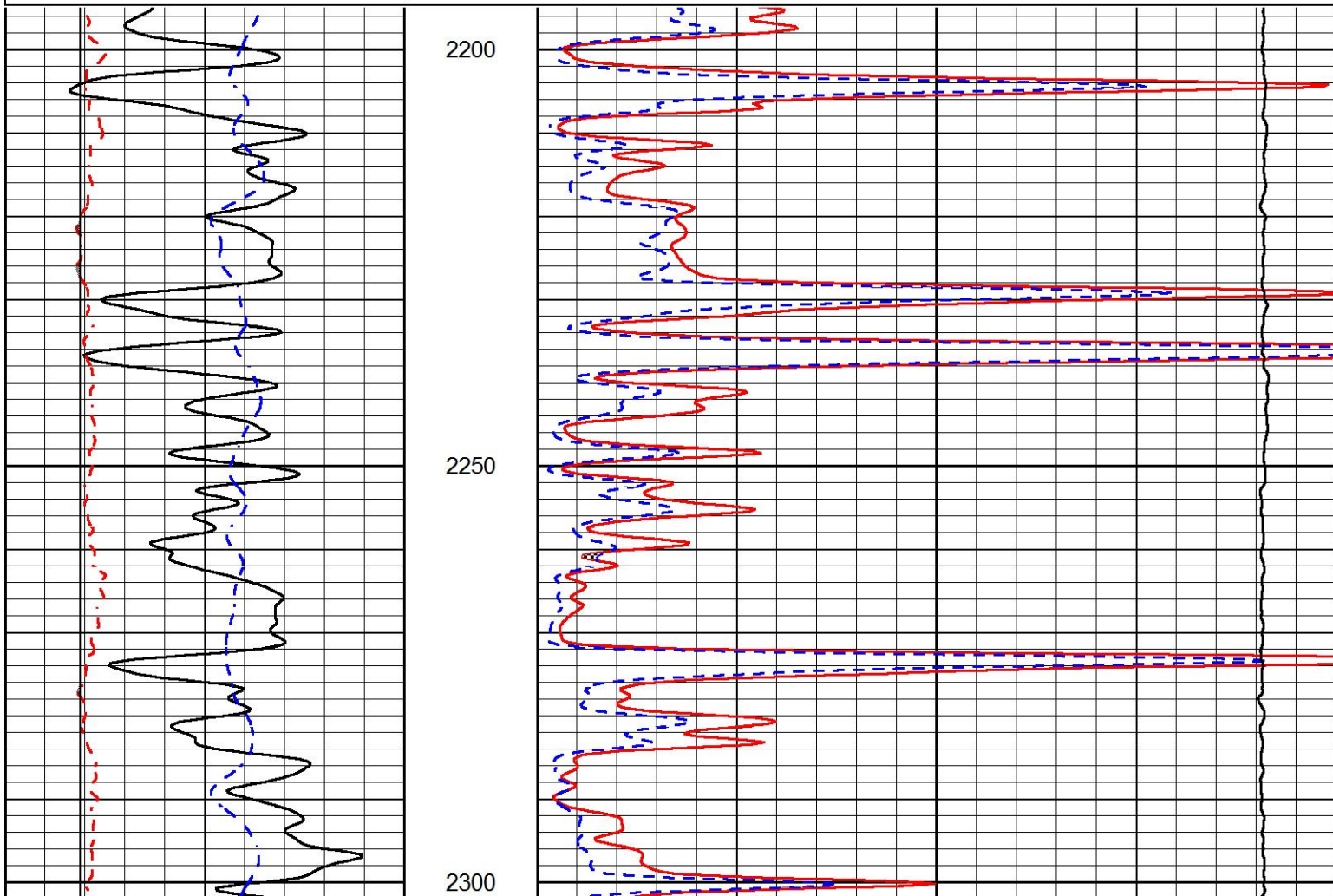


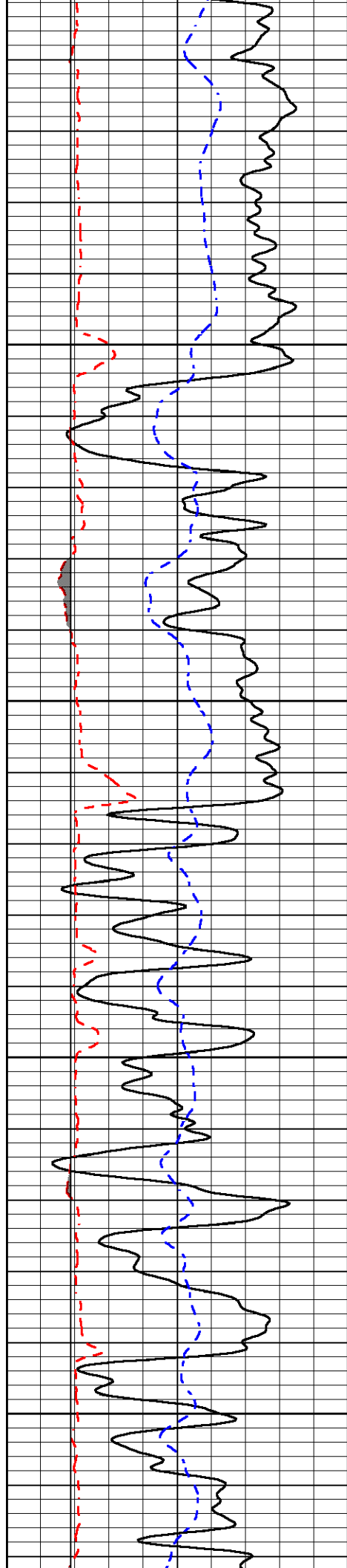
MAIN PASS

Database File k-bar oil_krehbiel 2.db
Dataset Pathname STKML/pass3.1
Presentation Format _micro
Dataset Creation Tue Jun 16 02:16:52 2020
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



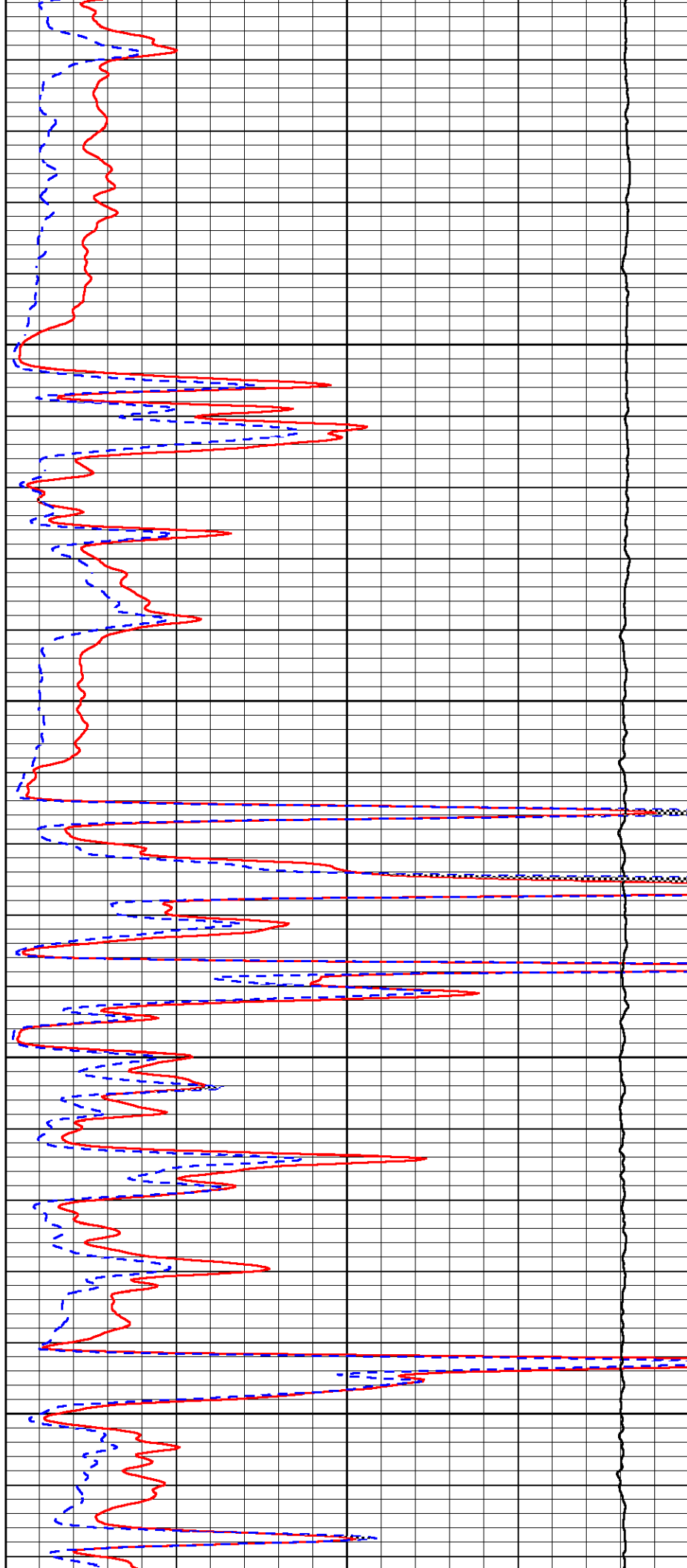


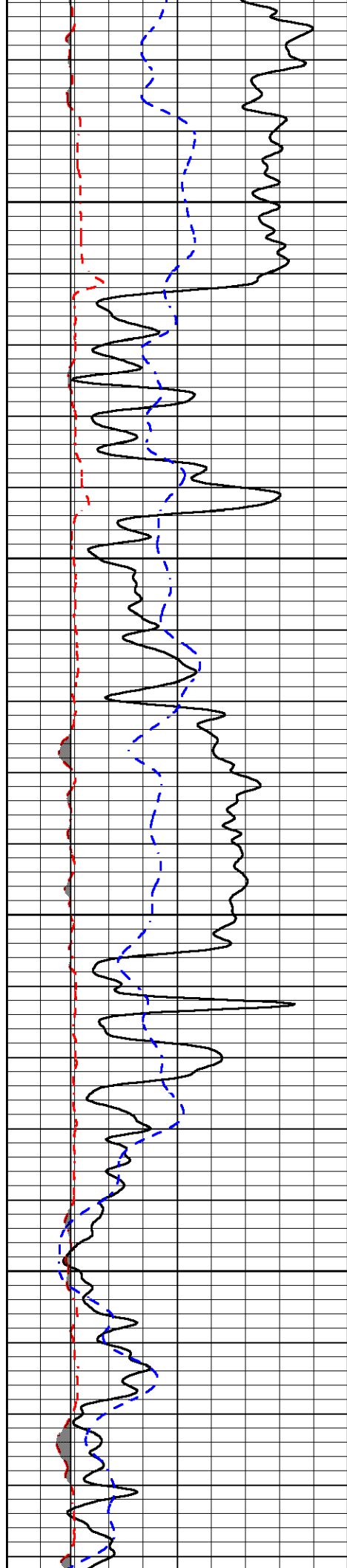
2350

2400

2450

2500



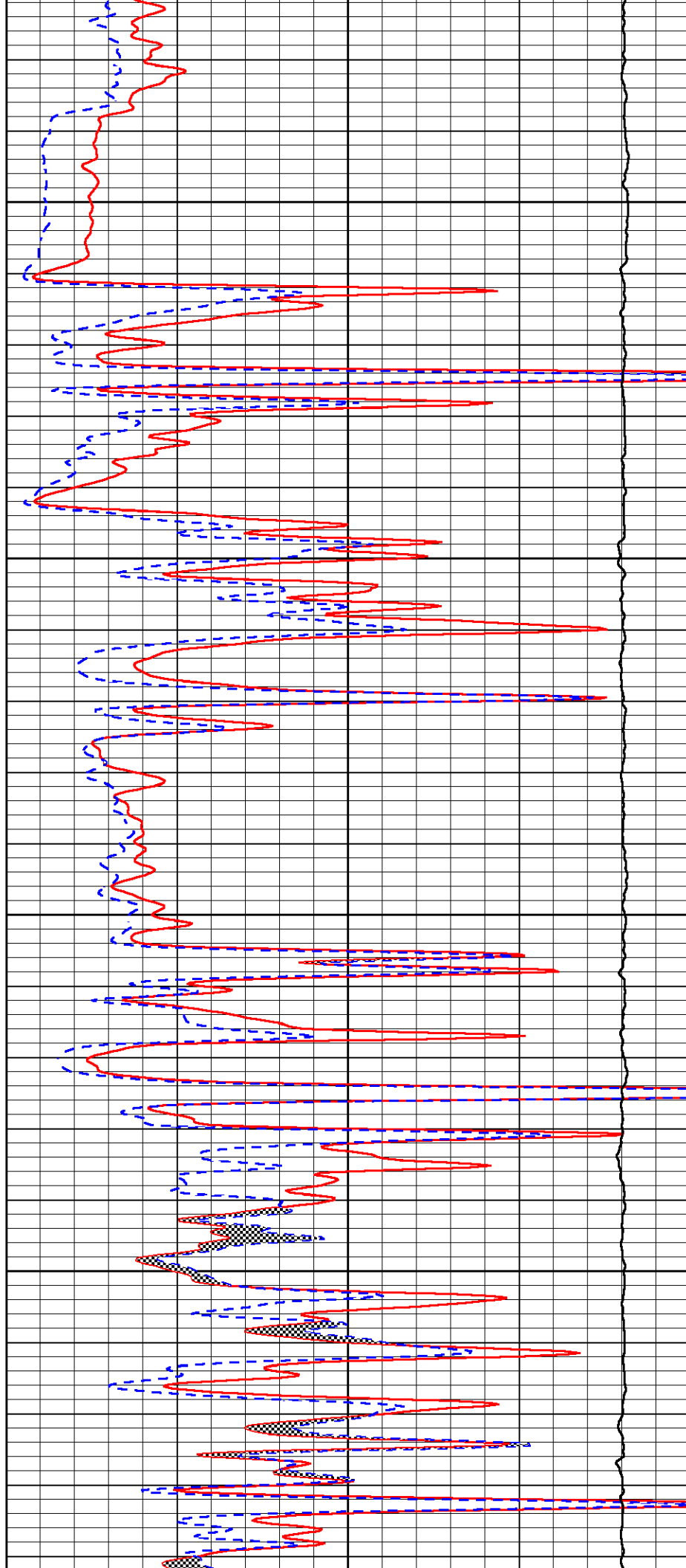


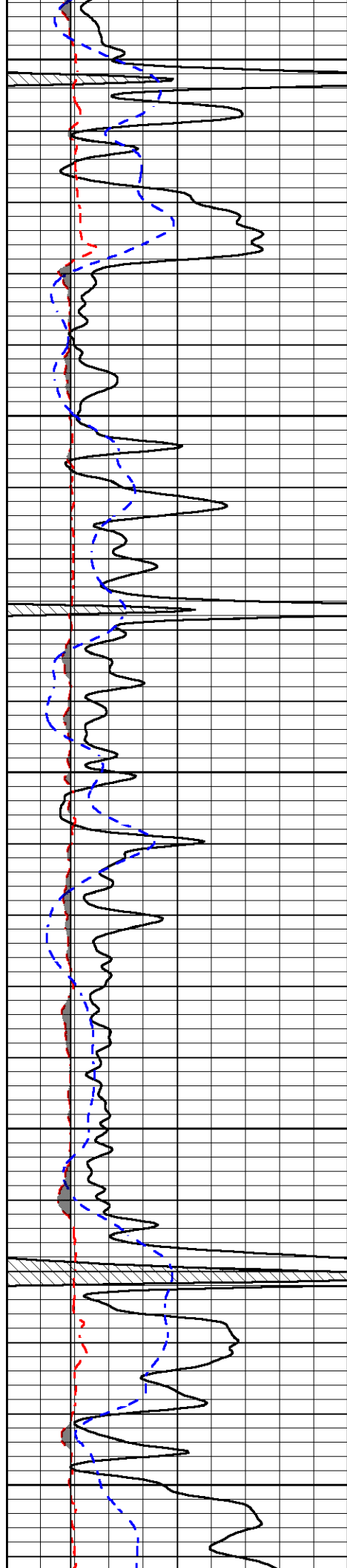
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2600

2650

2700





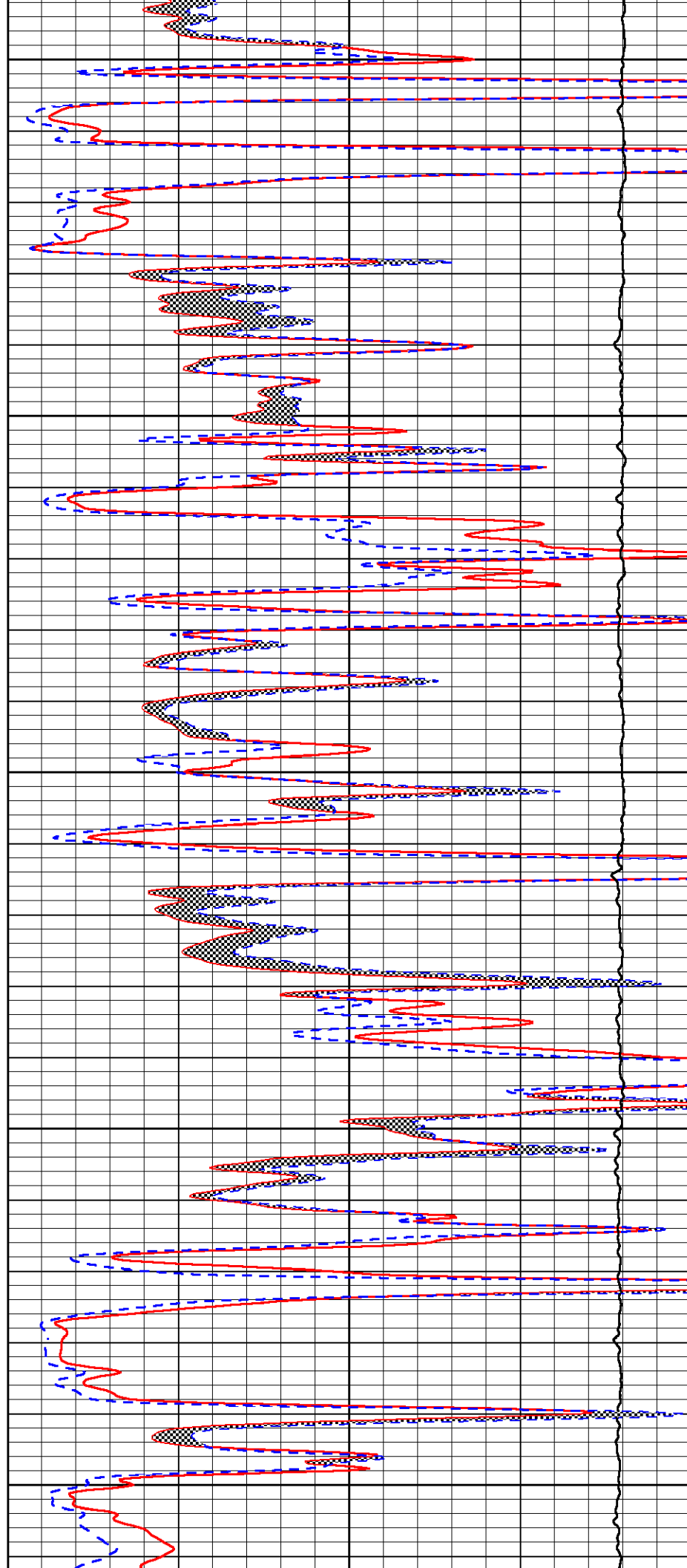
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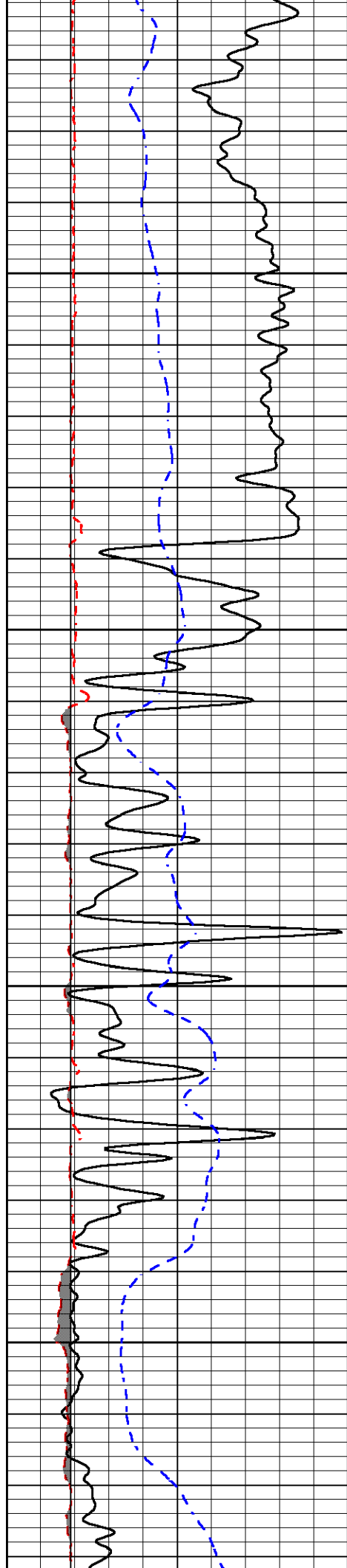
2800

2850

2900

2950



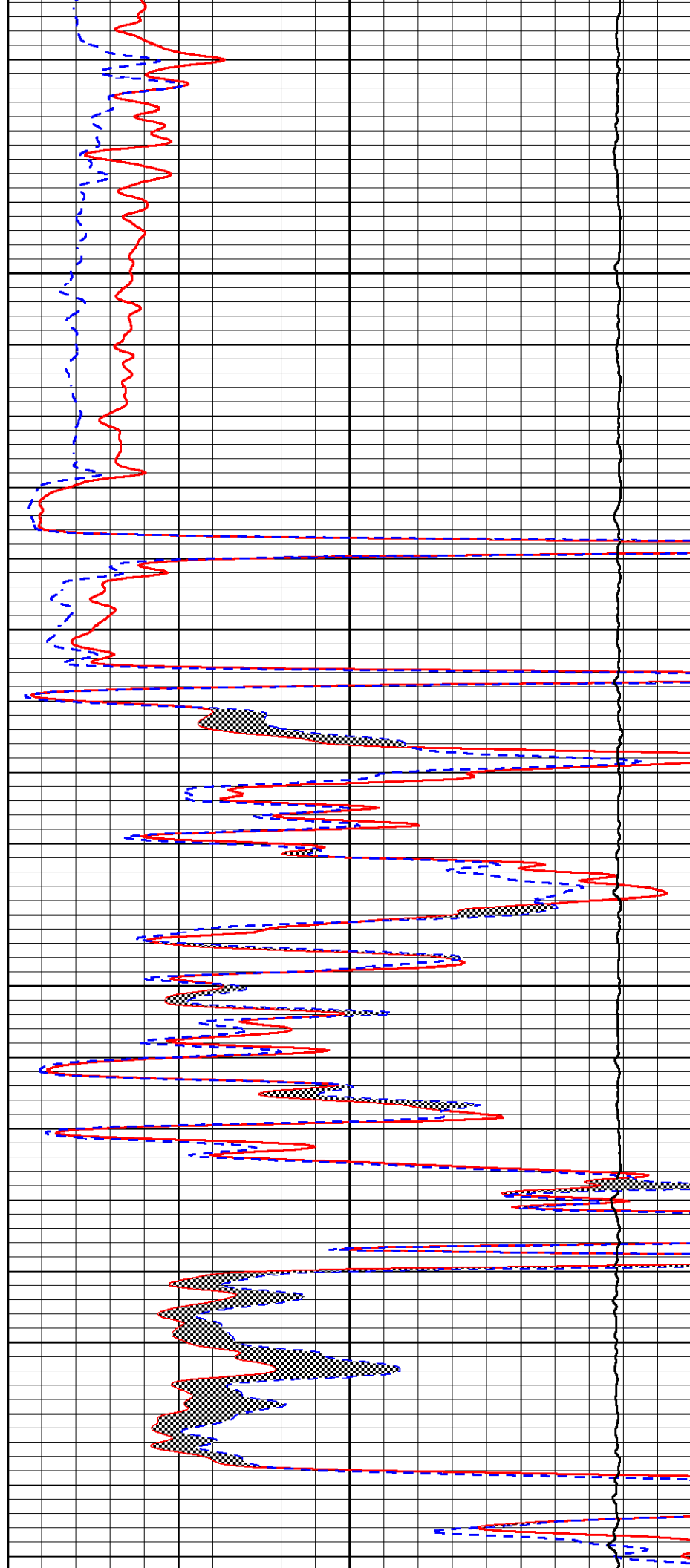


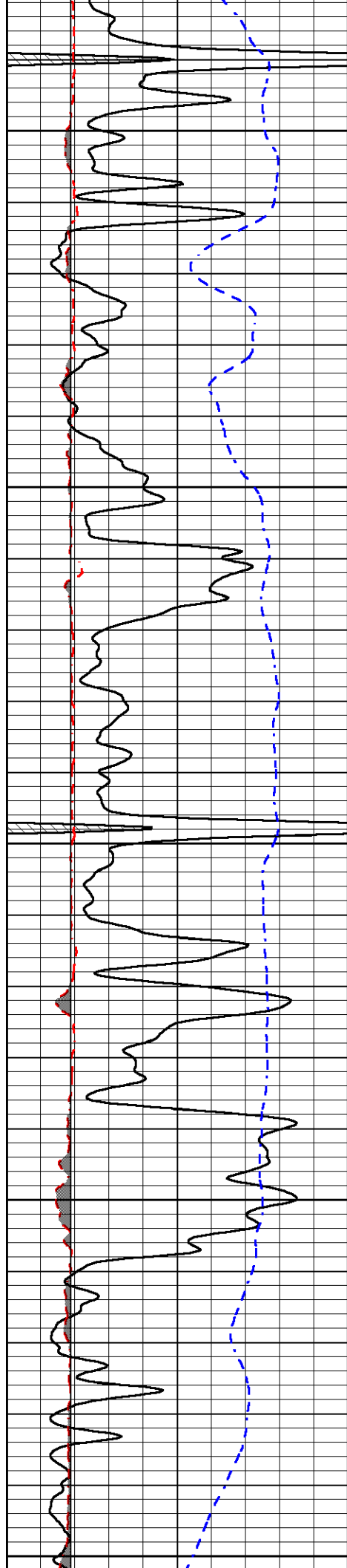
3000

3050

3100

3150





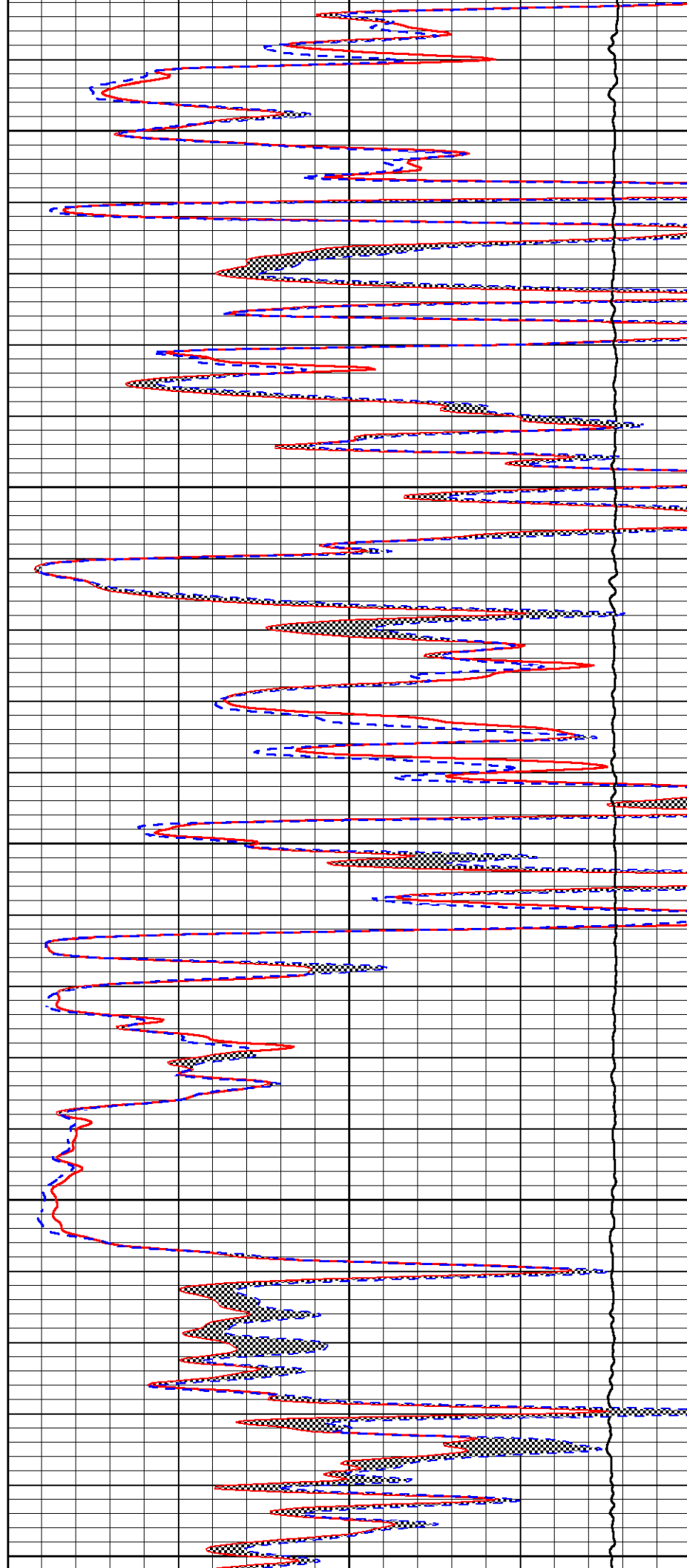
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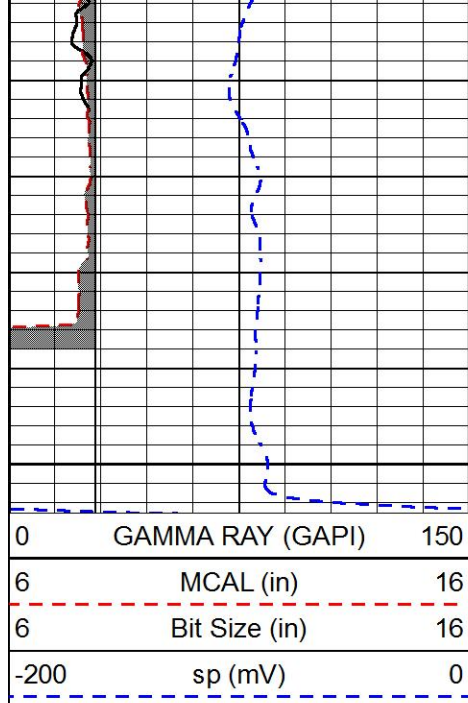
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3300

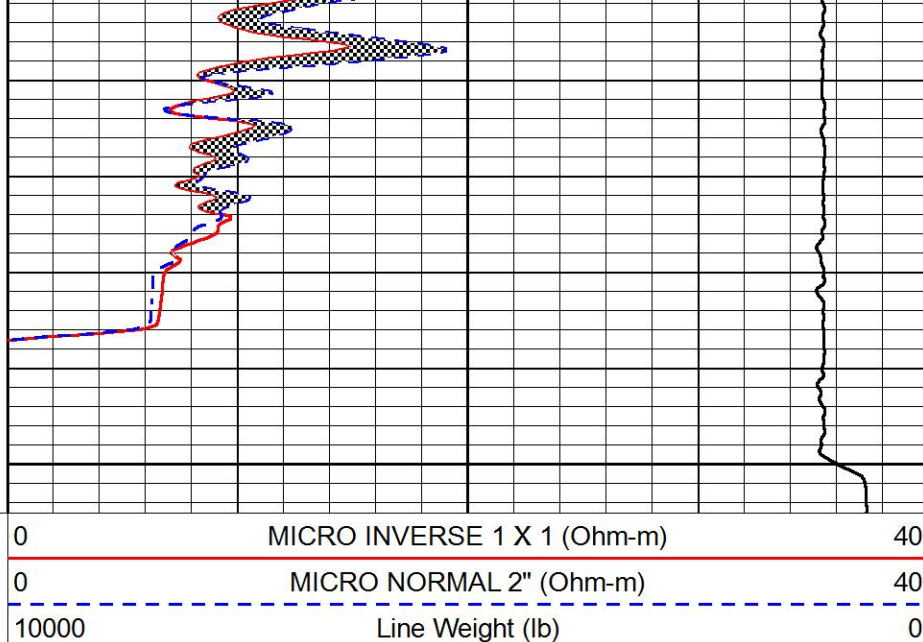
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3400



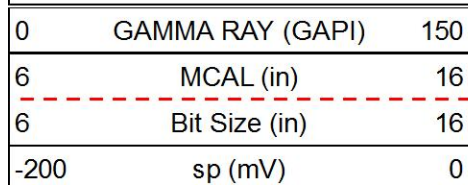


3450

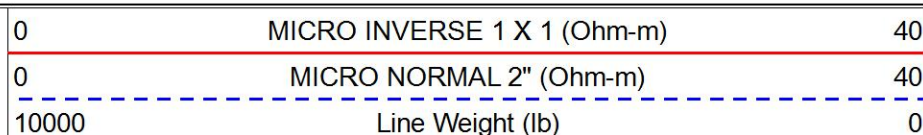


REPEAT SECTION

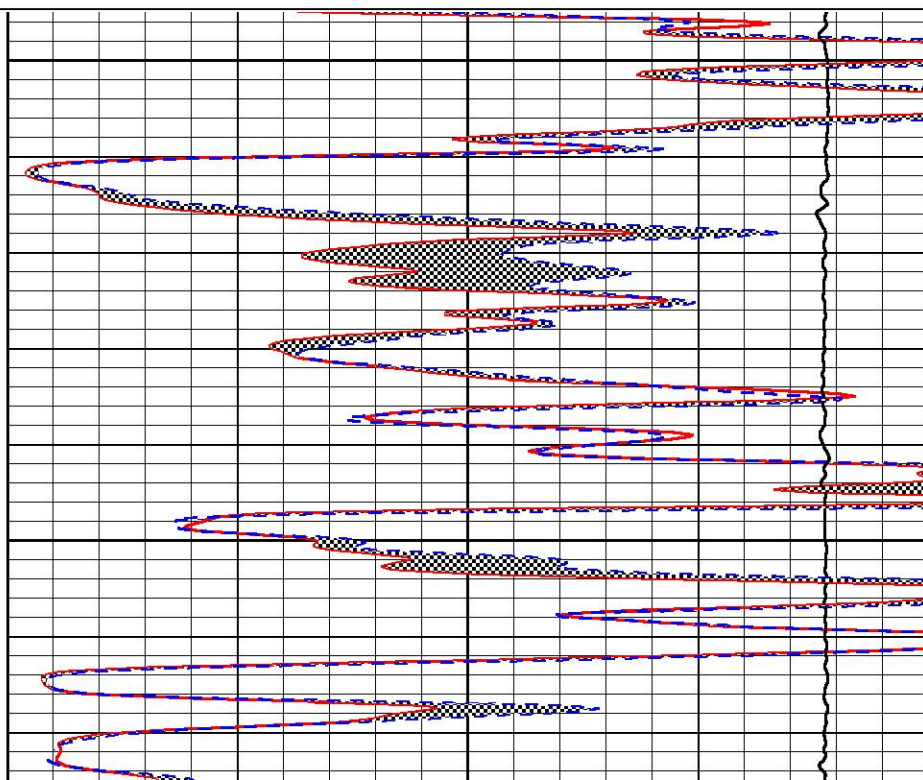
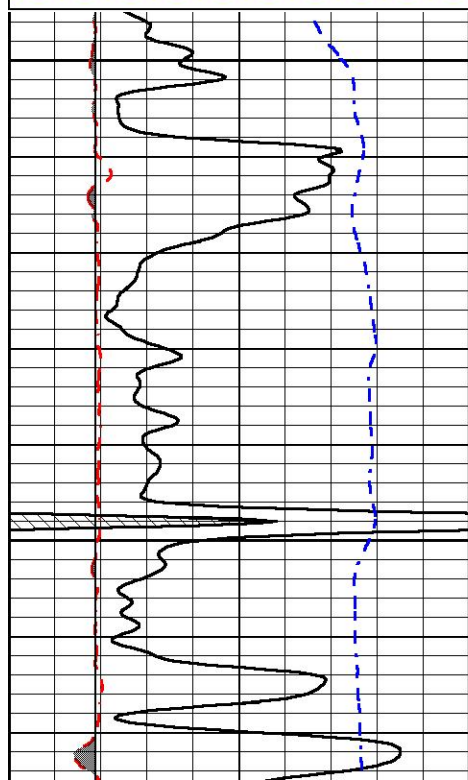
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Dataset Pathname STKML/pass2.3
Presentation Format _micro
Dataset Creation Tue Jun 16 02:19:31 2020
Charted by Depth in Feet scaled 1:240

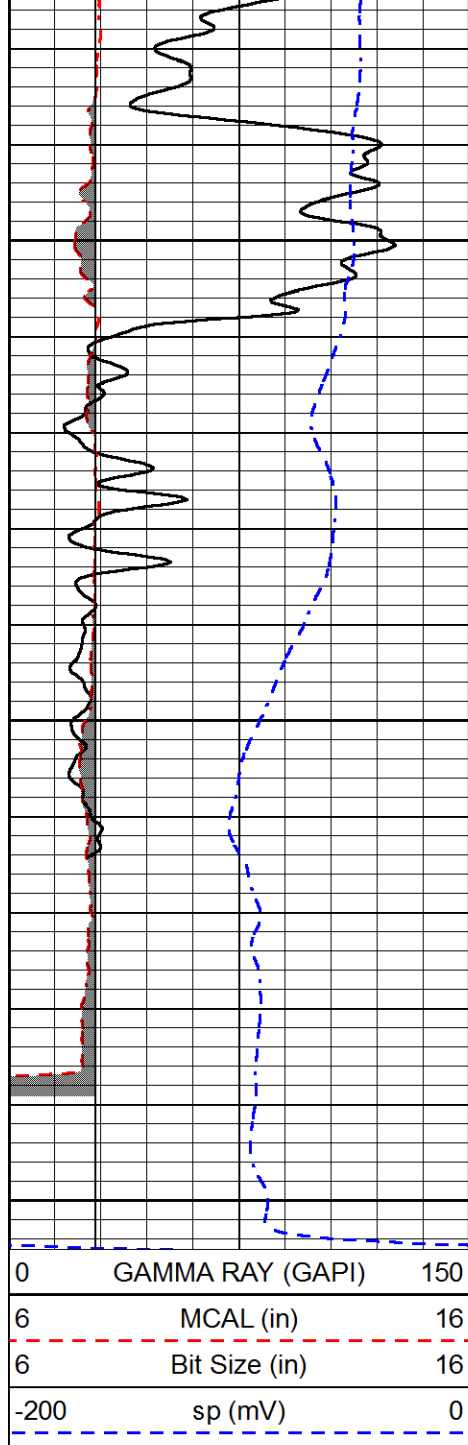


3250



3300

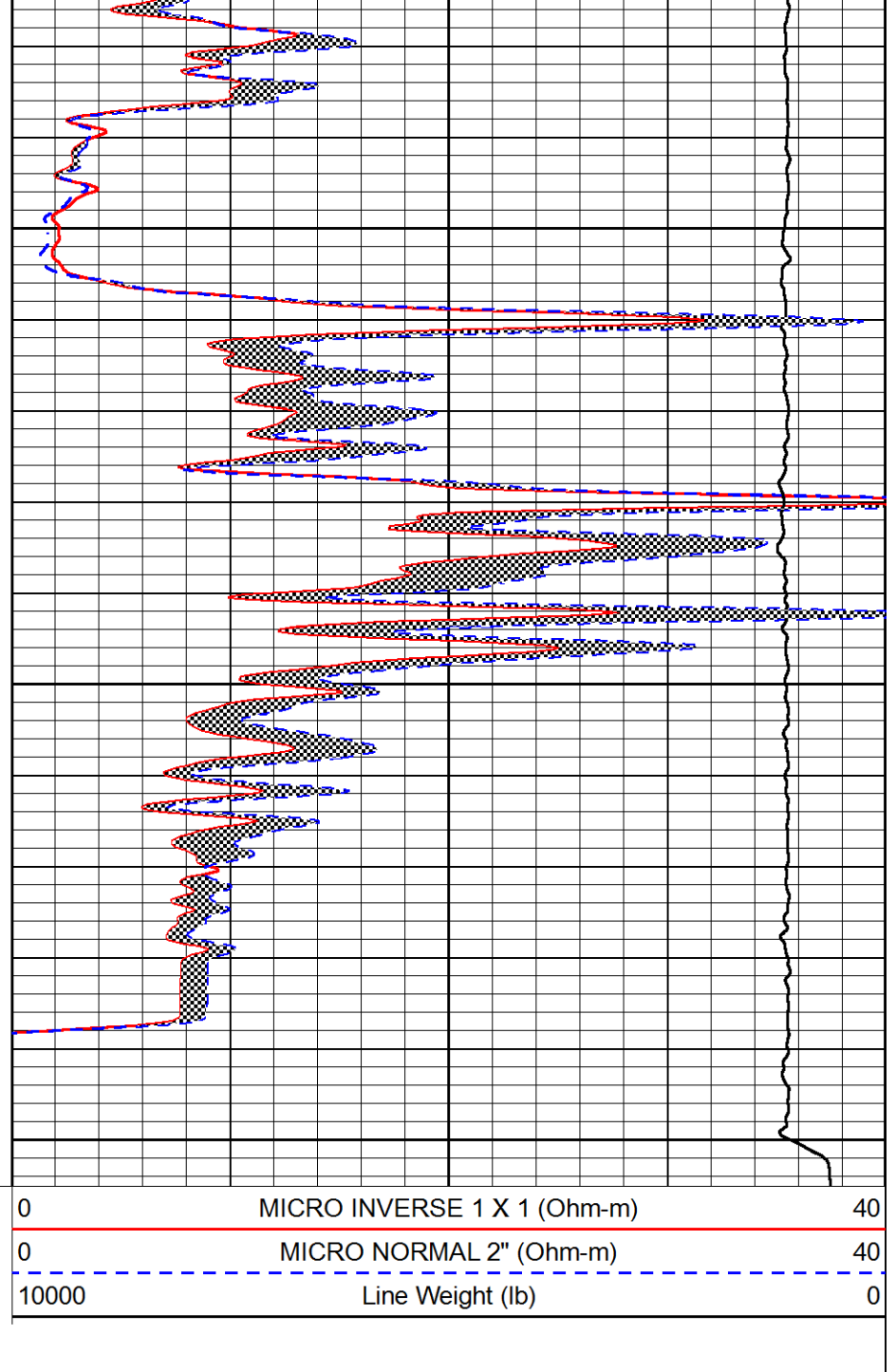




3350

3400

3450



Calibration Report

Database File k-bar oil_krehbiel 2.db
 Dataset Pathname STKML/pass3.1
 Dataset Creation Tue Jun 16 02:16:52 2020

Dual Induction Calibration Report

Serial-Model: 952-828-PSI HIGH TEMP
 Calibration Performed: Sun Mar 01 09:43:59 2020

Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		Gain	Offset
Deep	167.000	835.000	0.000	255.000	mmho/m	0.390	-28.000
Medium	0.000	1348.000	142.000	255.000	mmho/m	0.260	-24.000

Microlog Calibration Report

Serial-Model:
Performed:PSI-01-PSIML
Tue Jun 16 01:32:04 2020

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	14000.0000	-1.2000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	17000.0000	-1.1000
Caliper	1.0033	1.0841	5.0000	16.5000	in	142.3500	-138.4000

Compensated Density Calibration Report

Serial-Model:
Source / Verifier:
Master Calibration Performed:817-947-M&W
16955B / 2ci
Tue Sep 24 21:18:50 2019

Master Calibration

	Density			Far Detector			Near Detector	
Magnesium	1.755	g/cc		6127.15			5922.31	cps
Aluminum	2.680	g/cc		1141.85			3762.09	cps
Spine Angle = 74.89			Density/Spine Ratio = 0.532					
	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: Fri Feb 07 01:42:40 2014Calibrator Value: 1.0 GAPI
Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps
Sensitivity: 0.5500 GAPI/cpsCompany K-BAR OIL
Well KREHBIEL #2
Field RICK

PIONEER

Pioneer Energy Services

County

BARTON

State

KANSAS