



MIDWEST WIRELINE

MICRORESISTIVITY
LOG

Company Landmark Resources, Inc.		Company Landmark Resources, Inc.	
Well	Rose-Wessler Unit #1-34	Well	Rose-Wessler Unit #1-34
Field	Pence South	Field	Pence South
County	Scott	County	Scott
State	Kansas	State	Kansas
Location: API #: 15-171-21289-00-00		Other Services	
NE NE NE SW 2318 FSL & 2365 FWL SEC 34 TWP 16S RGE 34W		CNL/CDL DIL/BHCS	
Permanent Datum	Ground Level	Elevation	3124
Log Measured From	Kelly Bushing	K.B.	3132
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	3124
Date	6/29/2022		
Run Number	One		
Depth Driller	4870		
Depth Logger	4869		
Bottom Logged Interval	4868		
Top Log Interval	3400		
Casing Driller	8.625 @ 294		
Casing Logger	306		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	6500		
Density / Viscosity	9.4 66		
pH / Fluid Loss	10.0 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.7 @ 76		
Rmt @ Meas. Temp	0.53 @ 76		
Rmc @ Meas. Temp	0.95 @ 76		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	0.43 @ 124		
Operating Rig Time	4.5 Hours		
Max Rec. Temp. F	124		
Equipment Number	P-108		
Location	HAYS		
Recorded By	T. Martin		
Witnessed By	Terry McLeod		

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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.

Log Measured From: Kelly Bushing Ft. Above Permanent Datum

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

Your Midwest Wireline Crew	This Log Record Was Witnessed By
Engineer: T. Martin	Primary Witness: Terry McLeod
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\landmark_rose-wessler unit #1-34.db
Dataset field/well/StkMI/pass3.13/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 124	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 860	degF 95	Off	ft 4869

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



MIDWEST WIRELINE

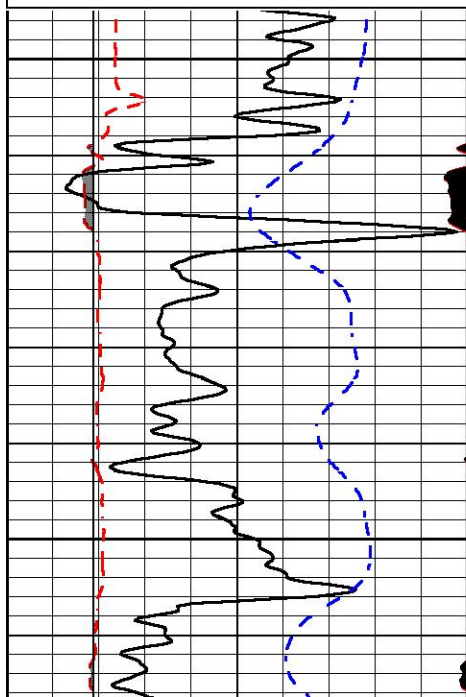
DETAIL SECTION

MAIN PASS

Database File landmark_rose-wessler unit #1-34.db
Dataset Pathname StkMI/pass3.1
Presentation Format _micro
Dataset Creation Wed Jun 29 18:13:06 2022
Charted by Depth in Feet scaled 1:240

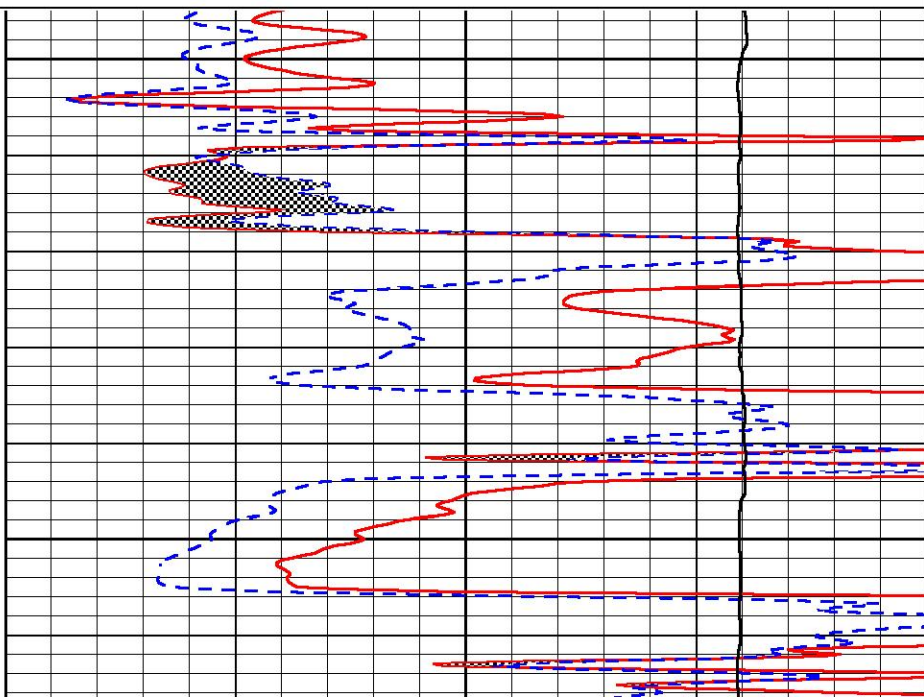
0	Gamma Ray (GAPI)	150
6	Caliper (in)	16
2.875	mcal (in)	7.875
-200	SP (mV)	0

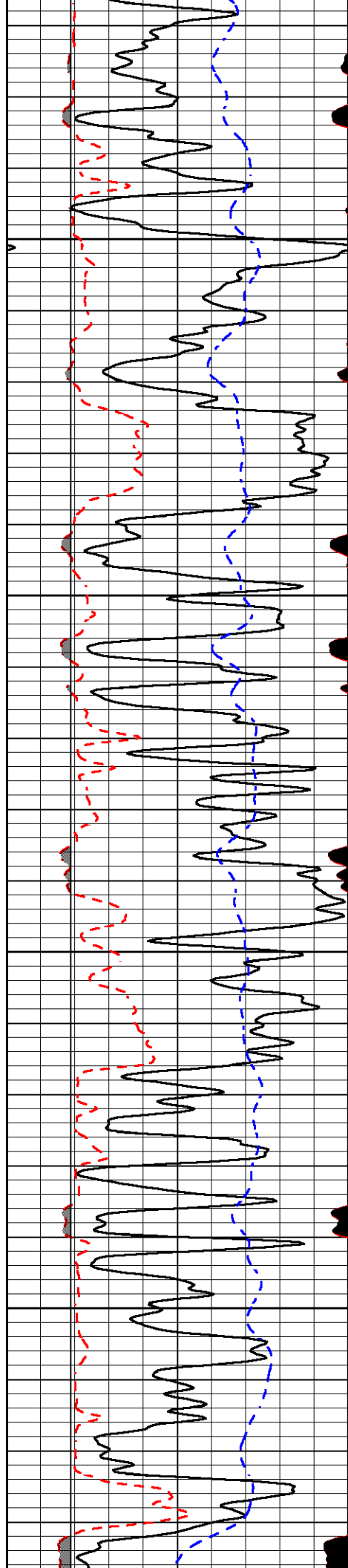
0	Micro Inverse 1 X 1 (Ohm-m)	40
0	Micro Normal 2" (Ohm-m)	40
10000	Line Weight (lb)	0



3400

3450



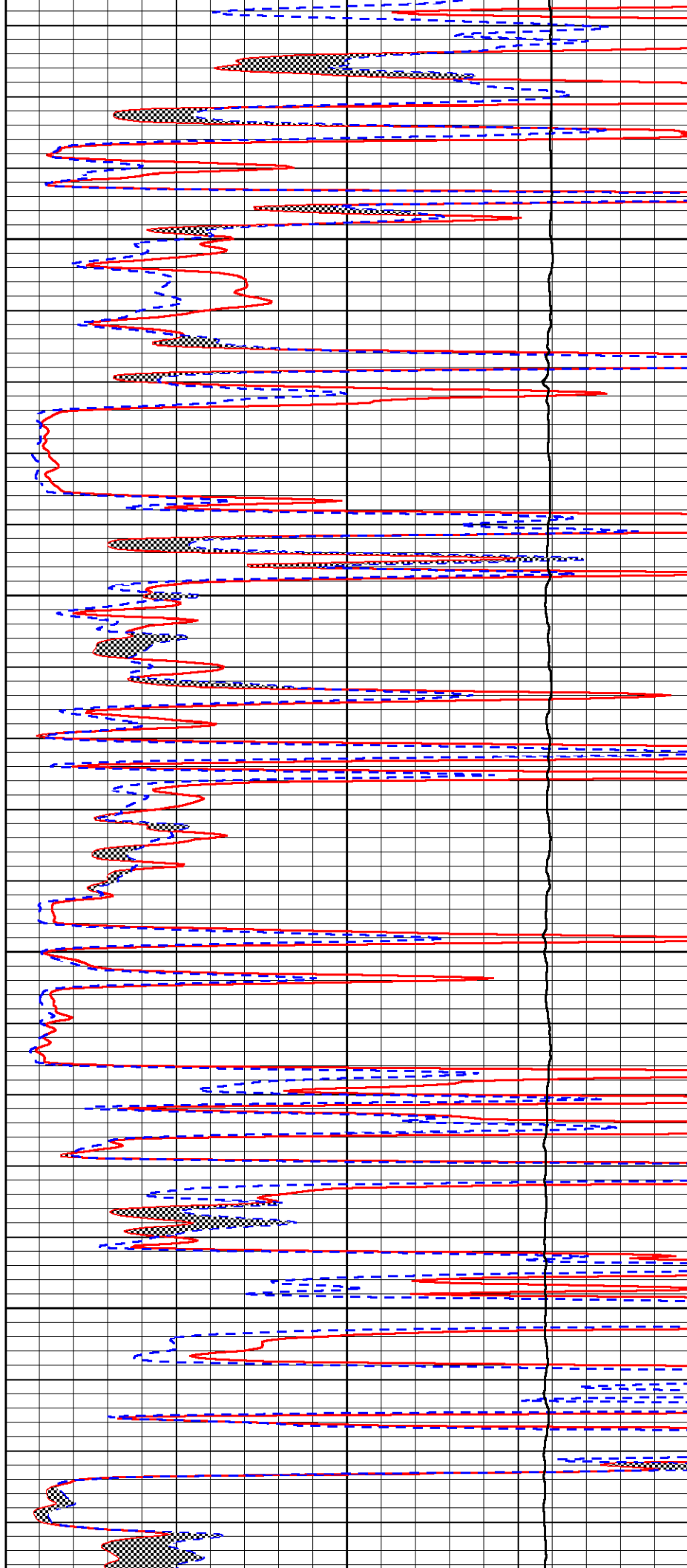


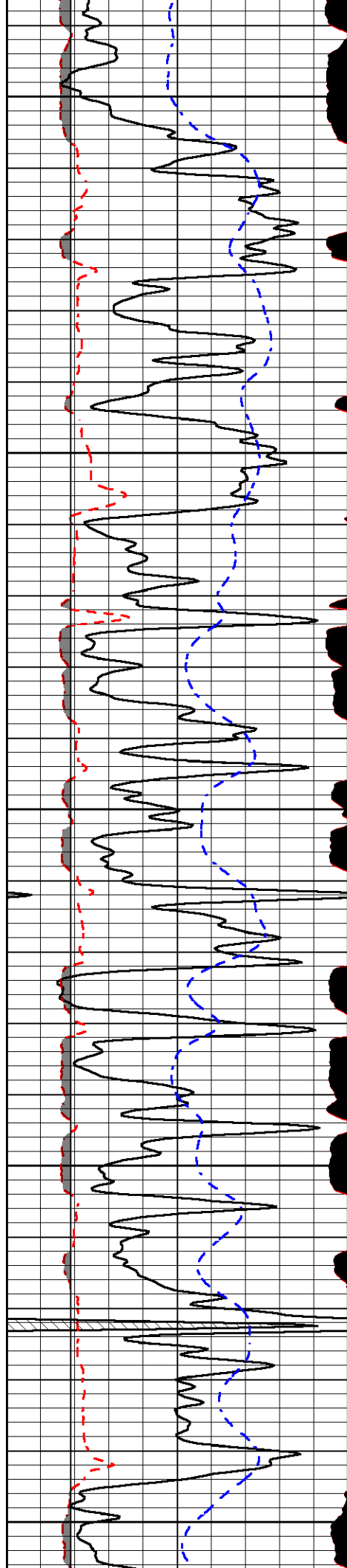
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3550

3600

3650





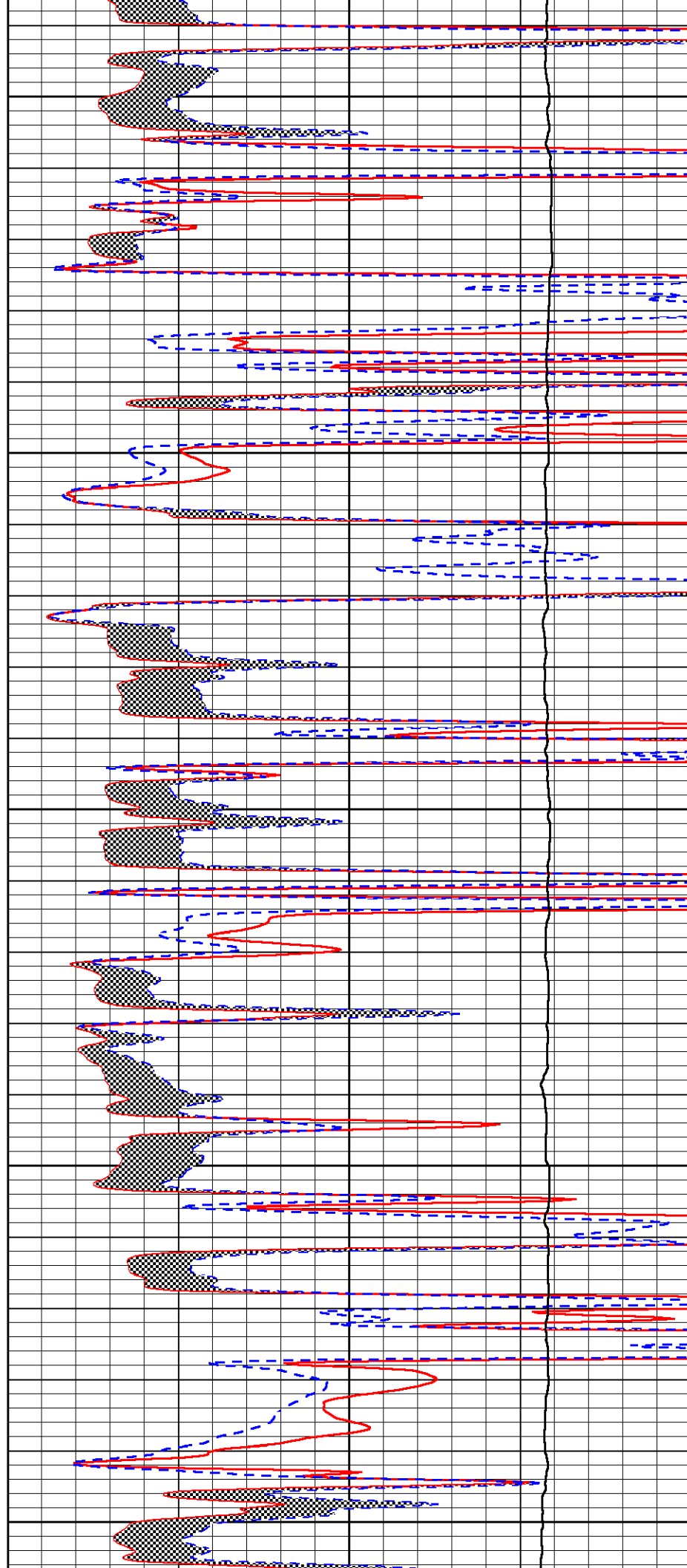
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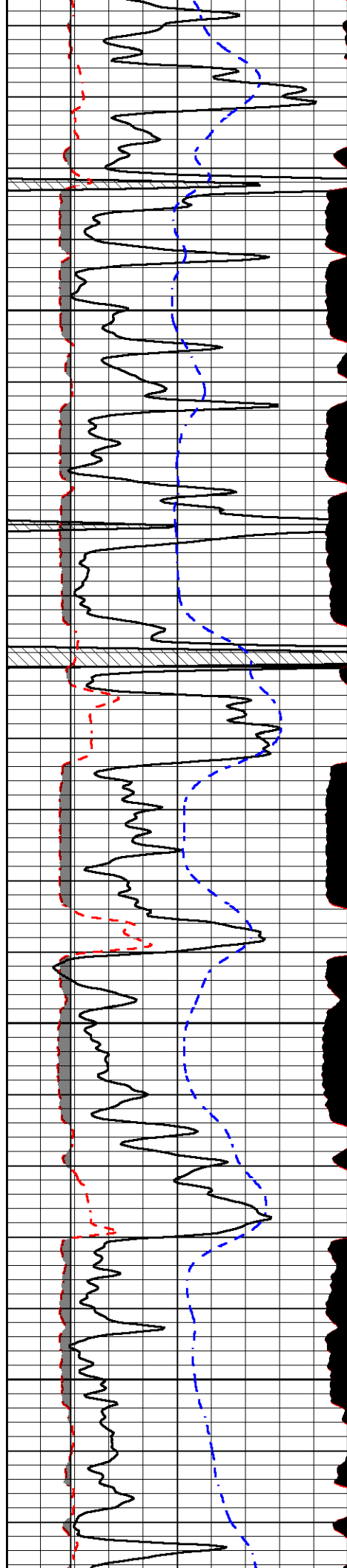
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3800

3850

3900



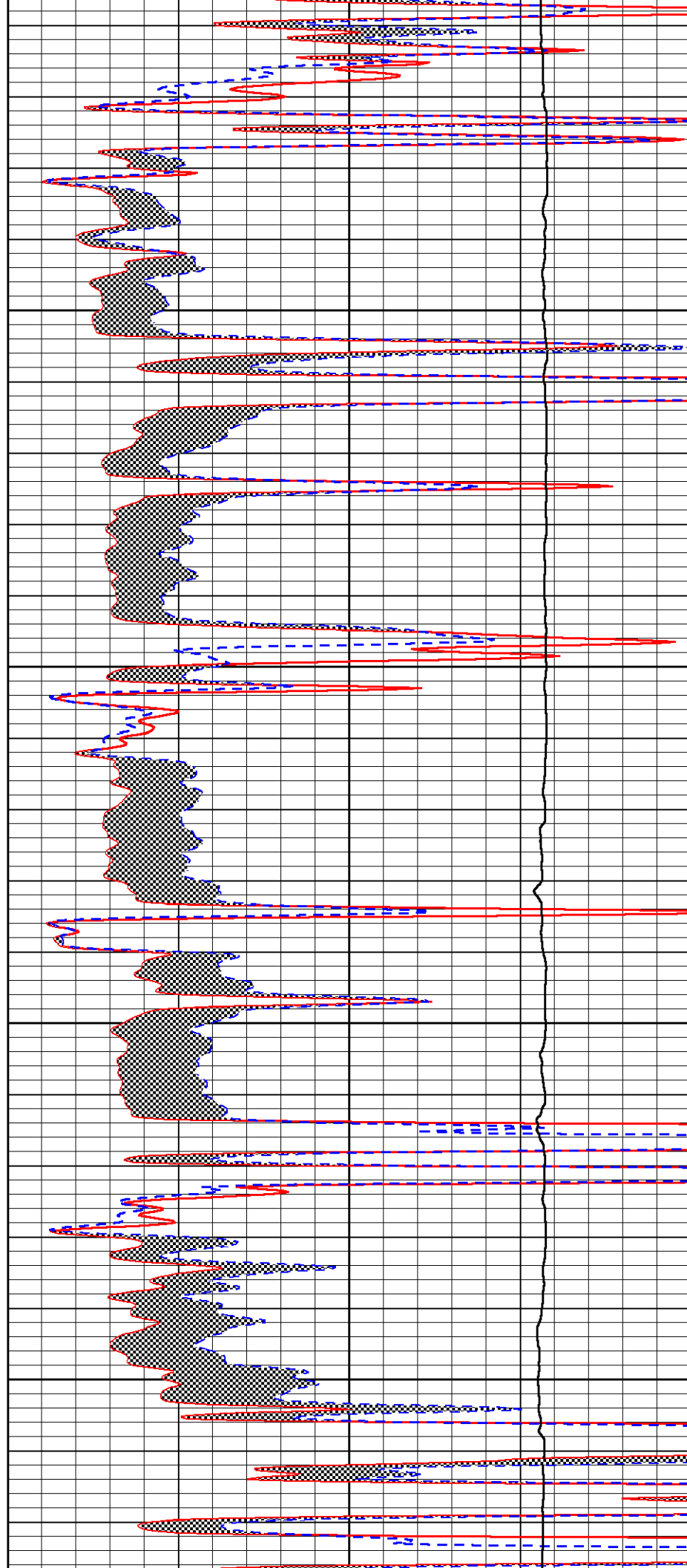


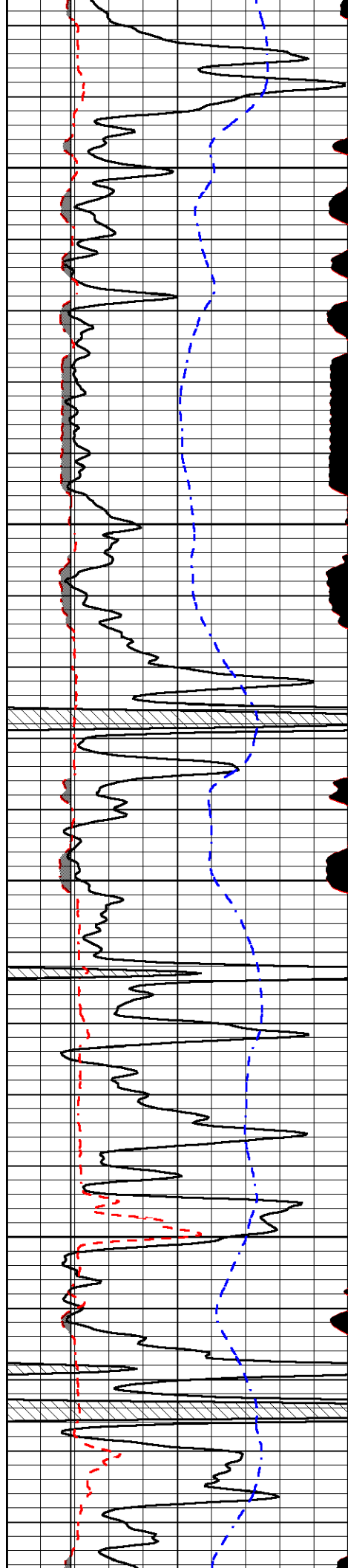
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4000

4050

4100



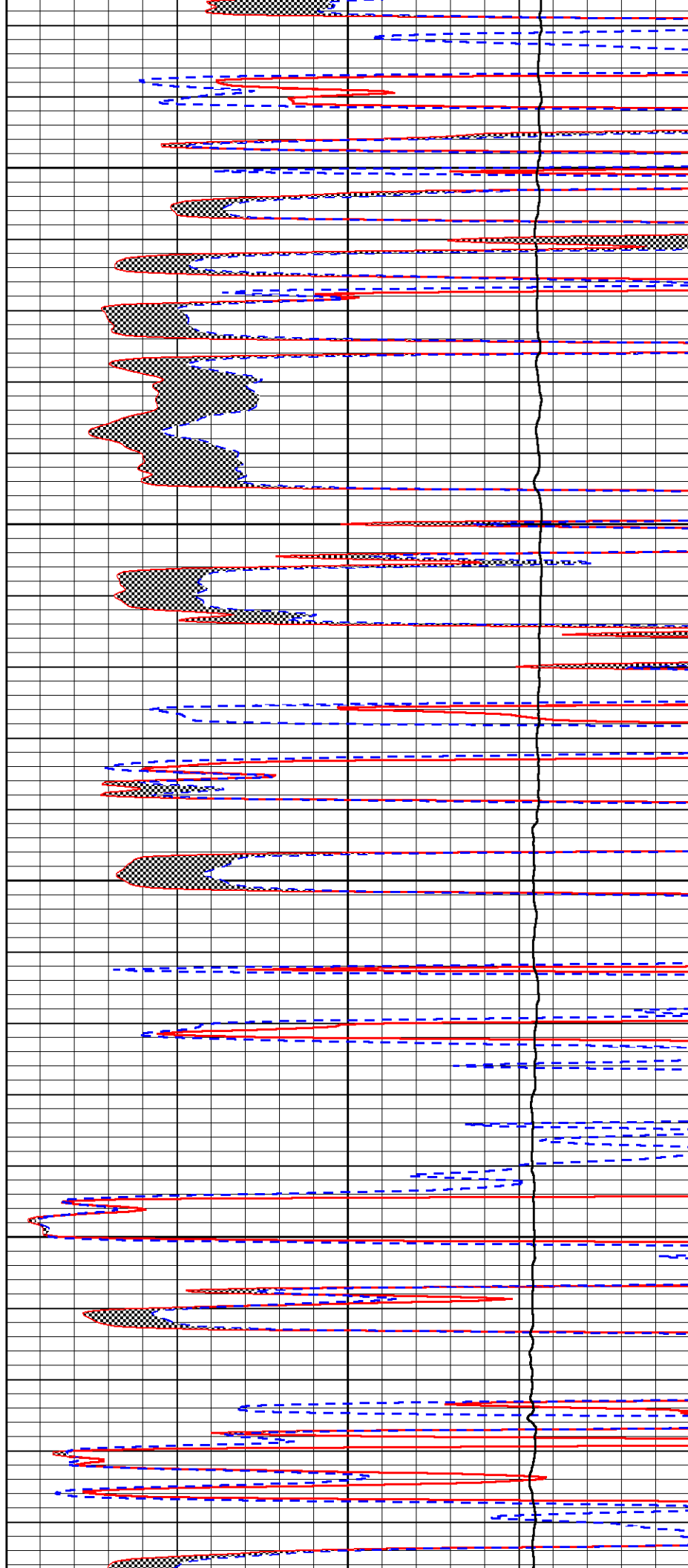


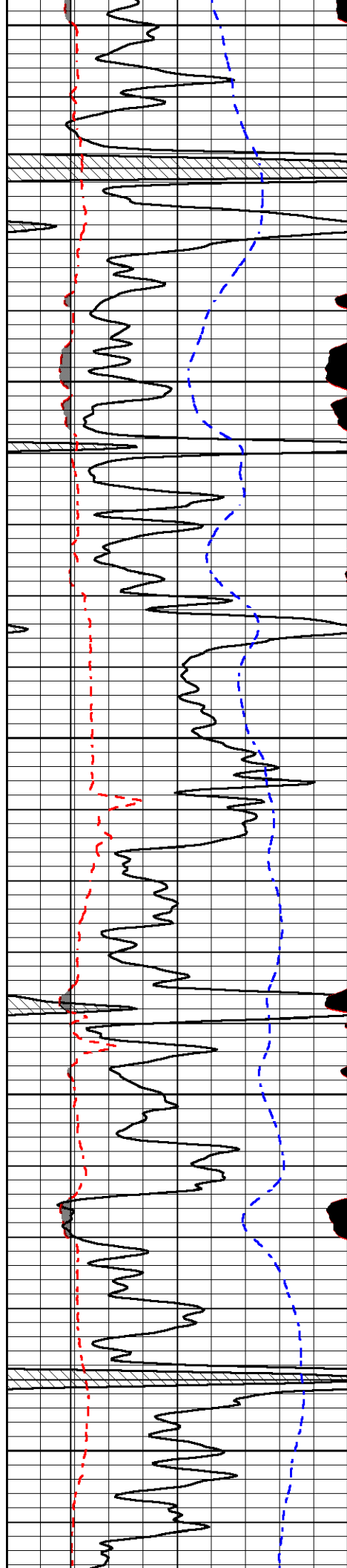
4150

4200

4250

4300





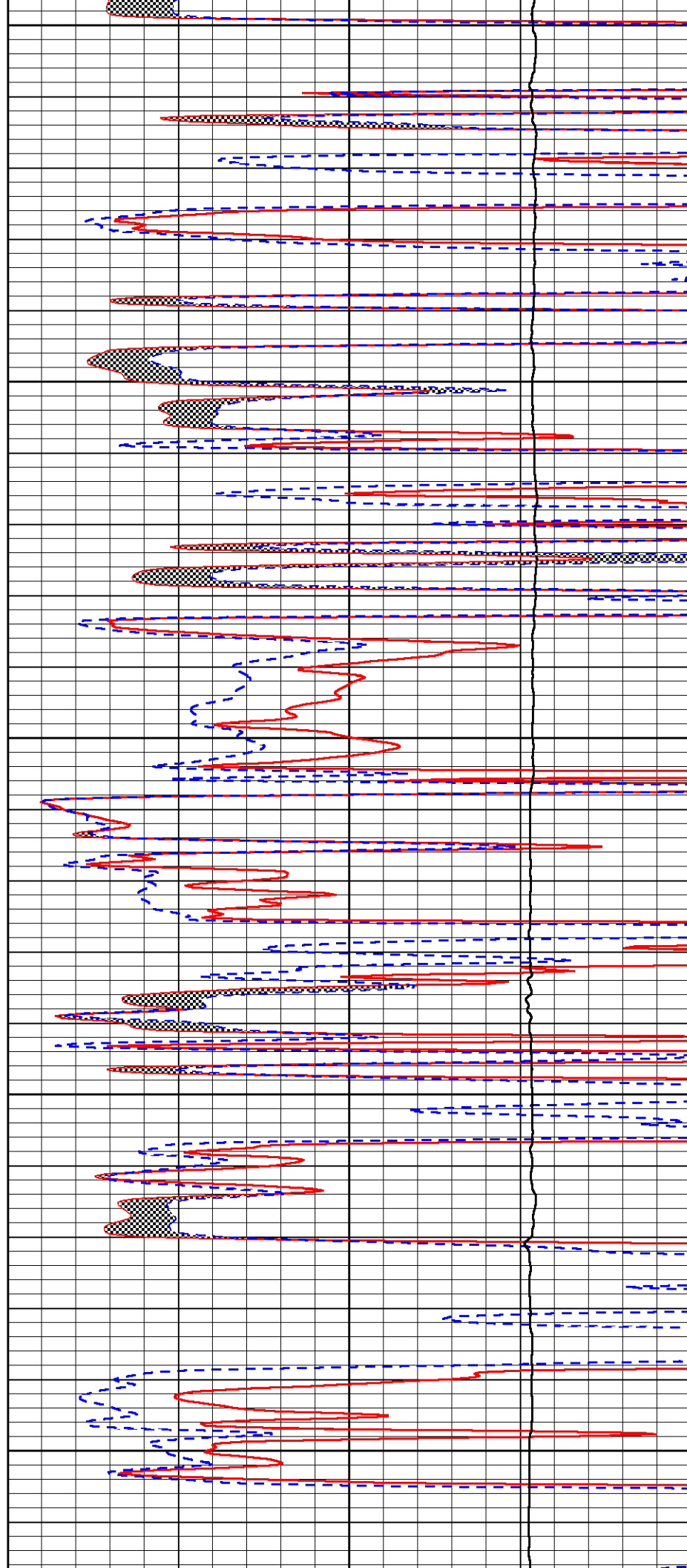
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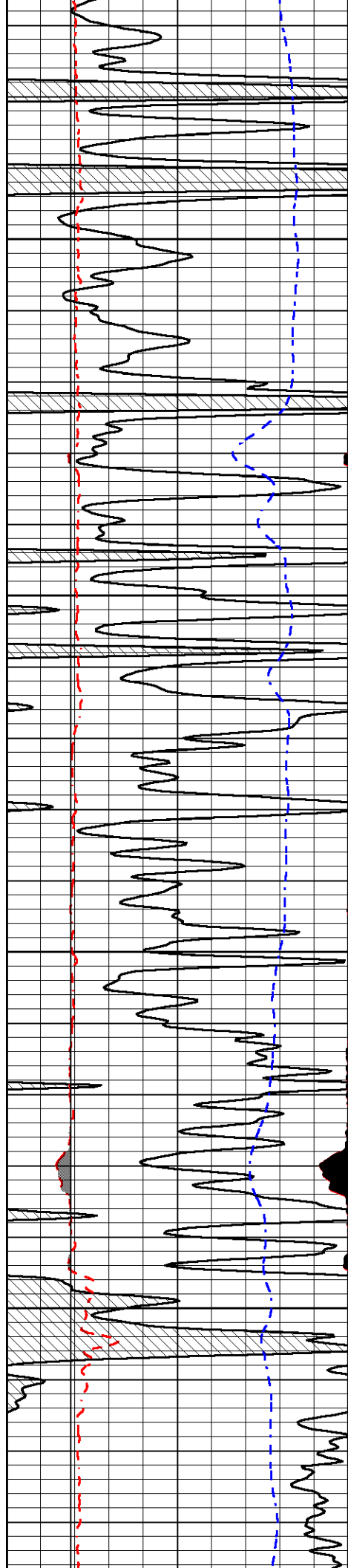
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4450

4500

4550



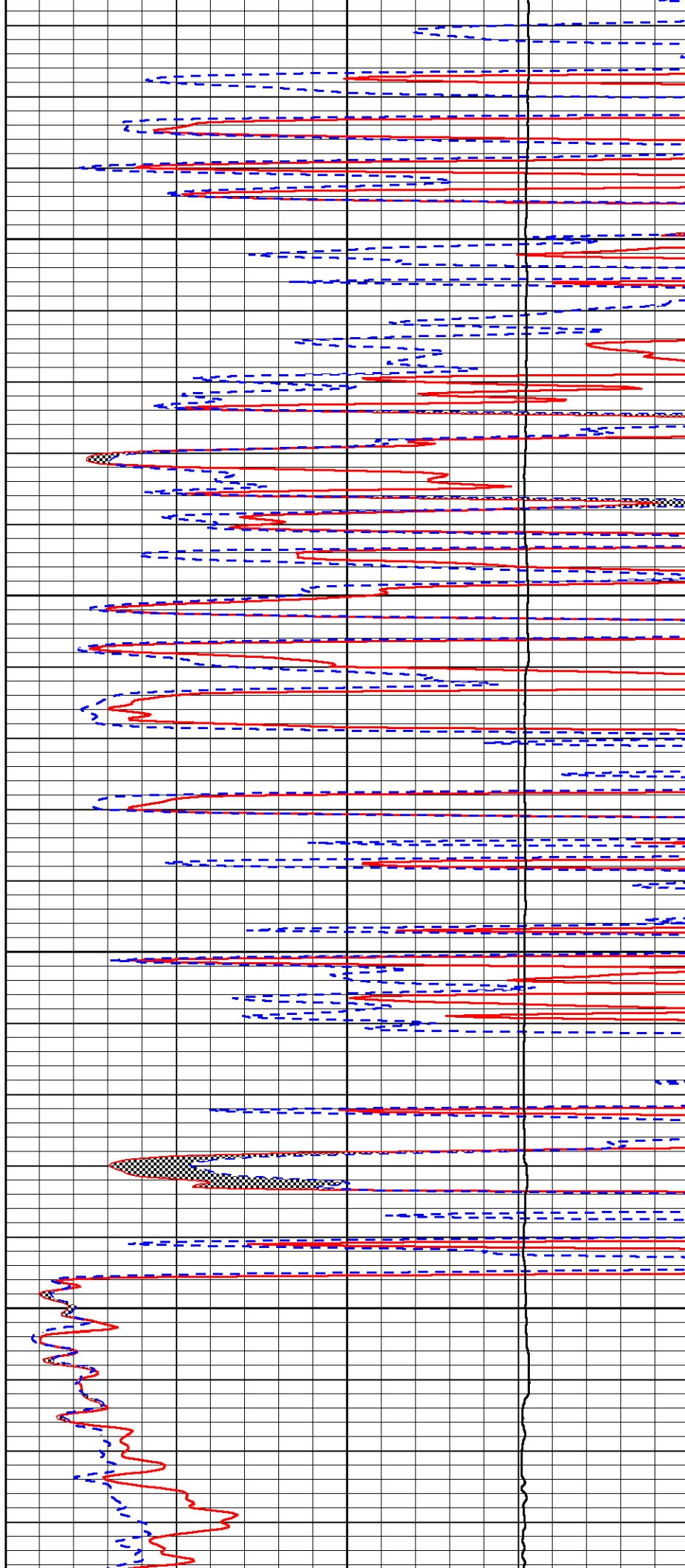


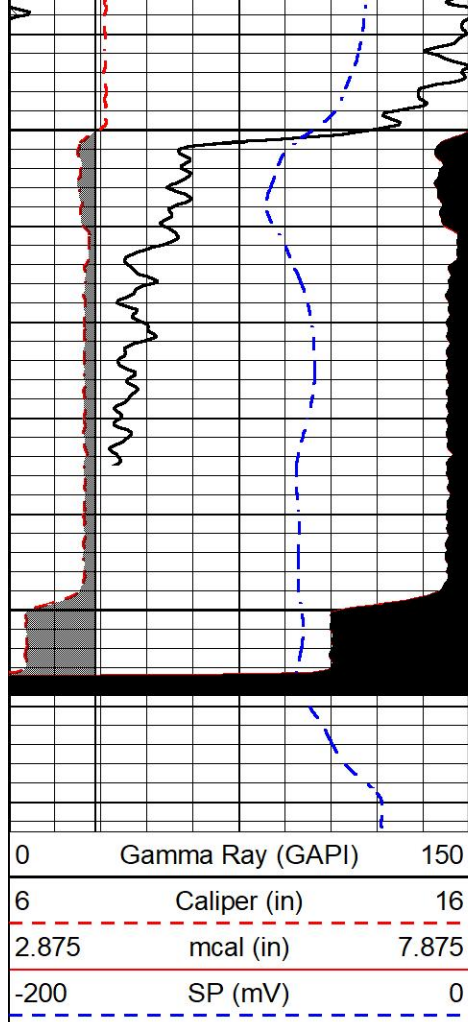
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4650

4700

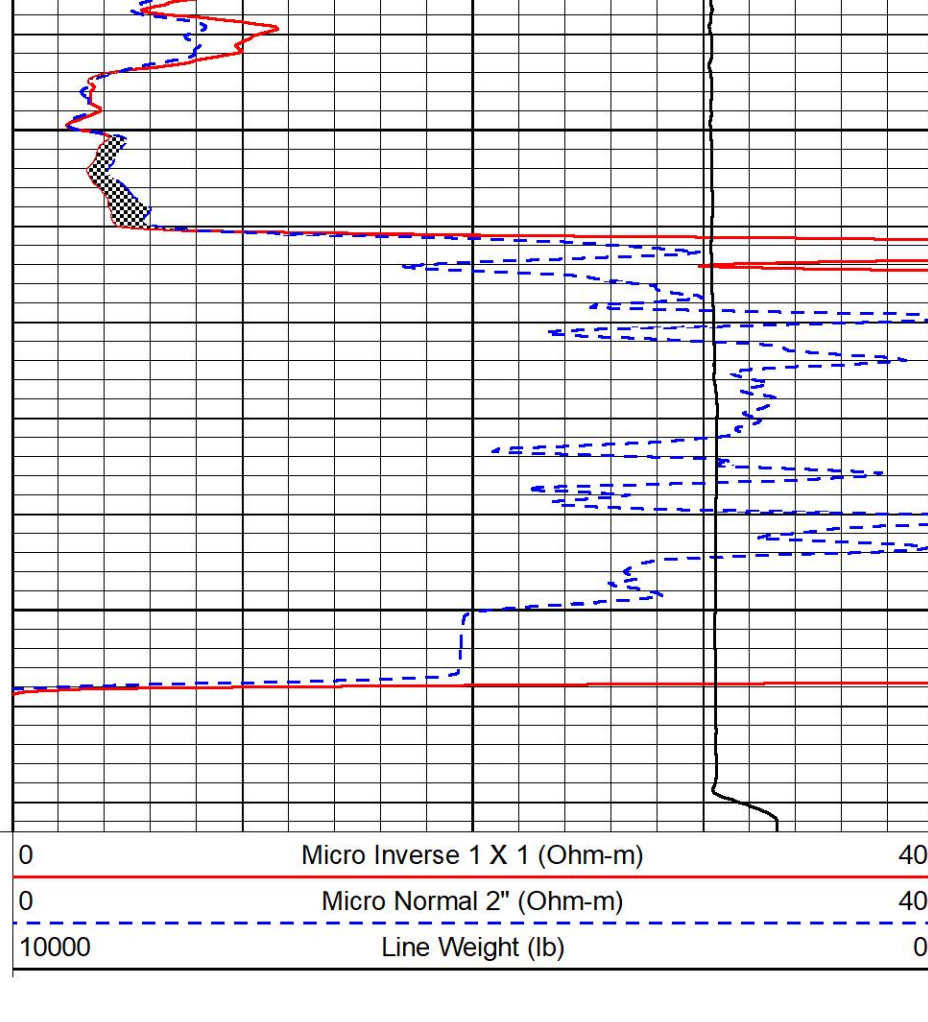
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4800

4850

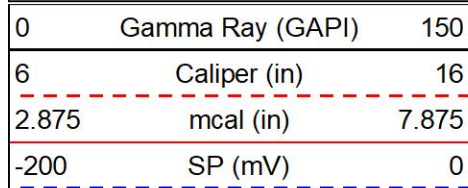


MIDWEST WIRELINE

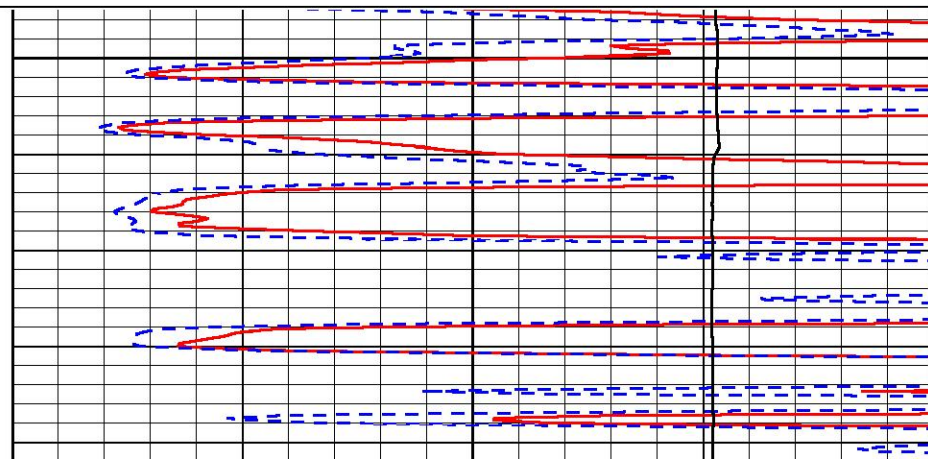
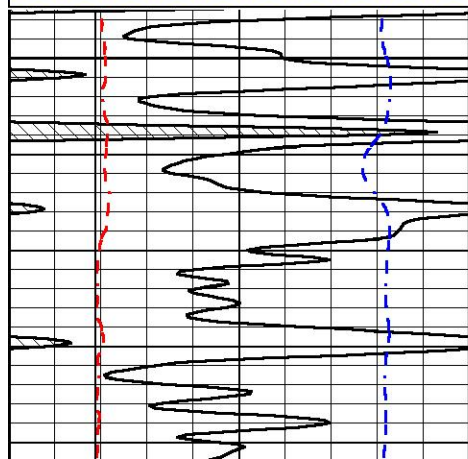
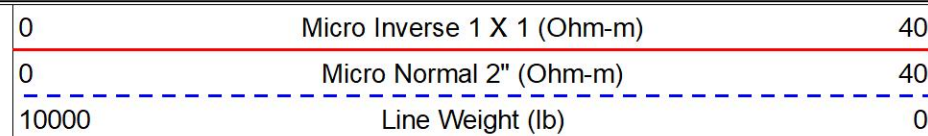
REPEAT SECTION

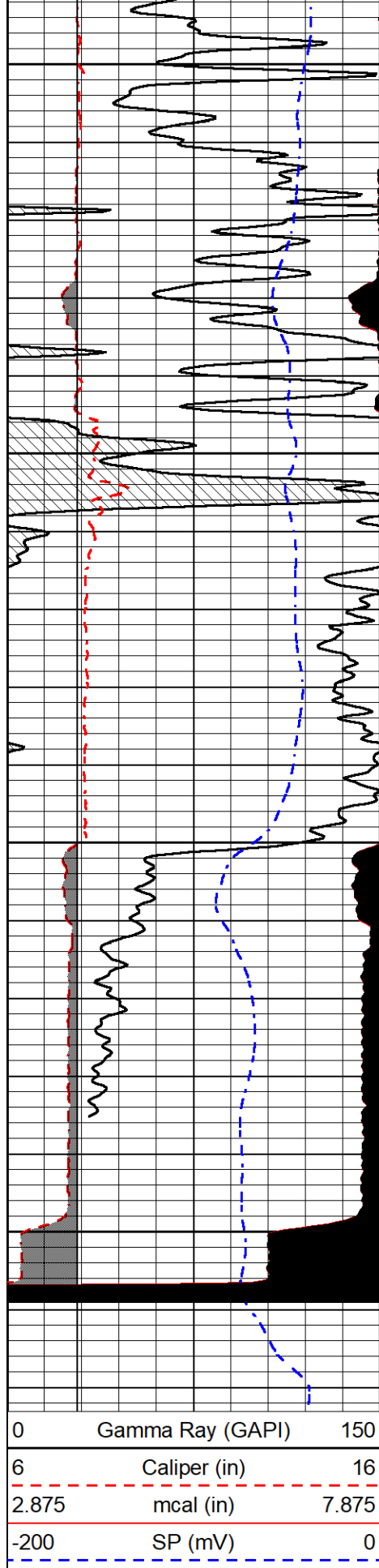
REPEAT PASS

Database File landmark_rose-wessler unit #1-34.db
 Dataset Pathname StkMI/pass2.1
 Presentation Format _micro
 Dataset Creation Wed Jun 29 17:21:47 2022
 Charted by Depth in Feet scaled 1:240



4650



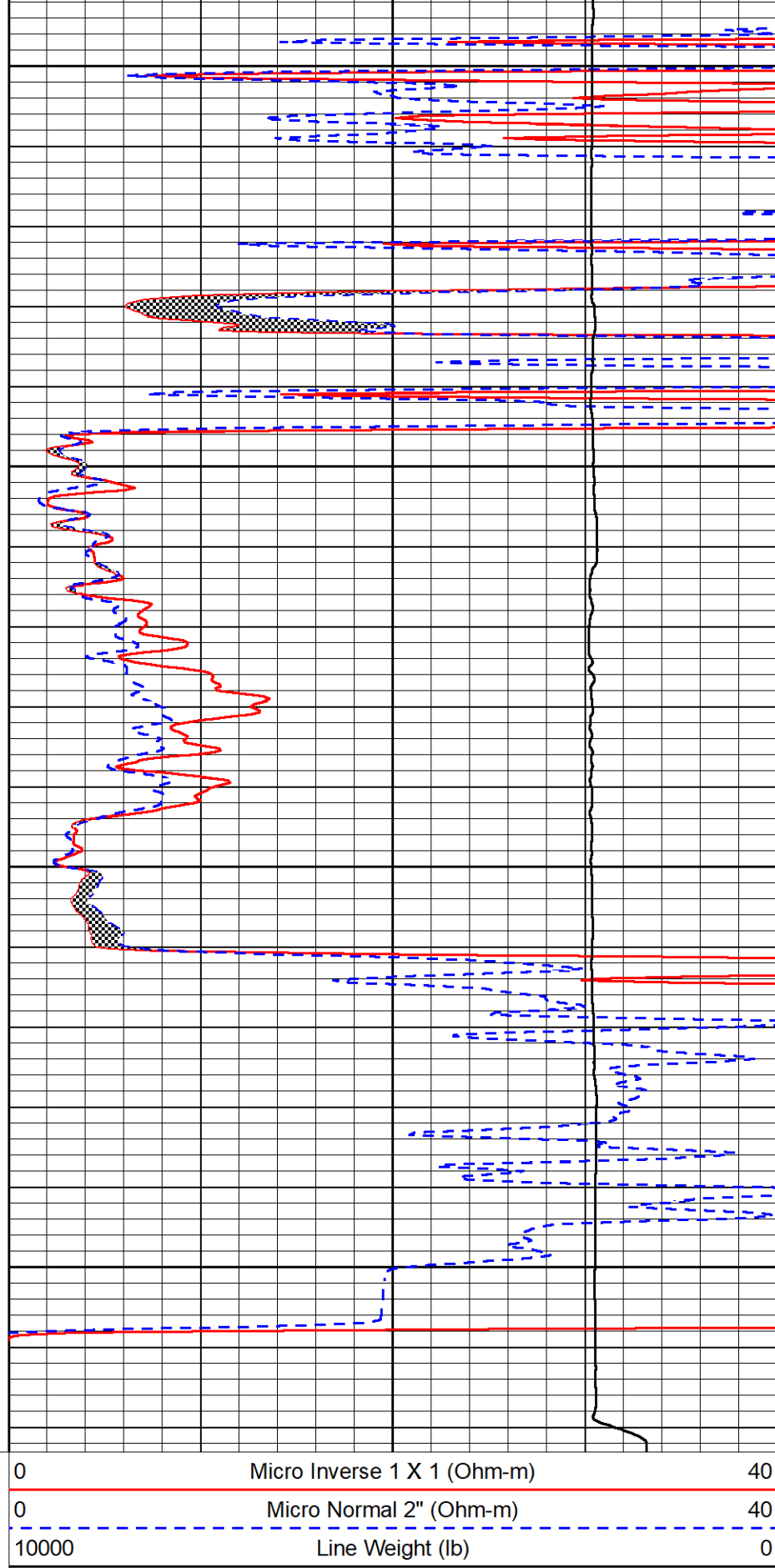


4700

4750

4800

4850



Calibration Report

Database File landmark_rose-wessler unit #1-34.db

Dataset Pathname StkMI/pass3.13

Dataset Creation Wed Jun 22 12:18:22 2022

Dataset Creation

Wed Jun 29 18:18:23 2022

Dual Induction Calibration Report							
Serial-Model: Surface Cal Performed:				504 HT-M&W Wed Jun 29 12:51:29 2022			
Loop:	Readings		References			Results	
	Air	Loop	Air	Loop		m	b
	Deep	178.615 710.235	0.000	255.800	mmho/m	0.650	-15.000
	Medium	161.982 1441.110	0.000	255.800	mmho/m	0.450	-50.750

Microlog Calibration Report							
Serial-Model: Performed:				401-PSI STKBL ML Wed Jun 29 12:51:40 2022			
	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
	Normal	0.0037 0.0043	0.0000	10.0000	Ohm-m	24000.0000	-0.8000
	Inverse	0.1208 0.0013	0.0000	10.0000	Ohm-m	18700.0000	0.0000
Caliper	1.0049 1.0846	5.5000	20.0000	in	165.0000	-161.8000	

Compensated Density Calibration Report							
Serial-Model: Source #: Master Calibration Performed:				303-03-M&W 21170B Thu Dec 16 23:28:34 2021			
Master Calibration							
	Density		Far Detector		Near Detector		
	Magnesium	1.755 g/cc	3841.78		5151.73 cps		
	Aluminum	2.670 g/cc	700.98		3068.49 cps		
	Spine Angle = 73.06		Density/Spine Ratio = 0.515				
	Size		Reading				
	Small Ring	4.00 in	1.17				
	Large Ring	14.00 in	1.03				

Compensated Neutron Calibration Report							
Serial-Model: Source #: Master Calibration Performed:				210-M&W N-1238 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					

Serial Number: 10
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	Landmark Resources, Inc.
Well	Rose-Wessler Unit #1-34
Field	Pence South
County	Scott
State	Kansas