



MIDWEST WIRELINE

MICRORESISTIVITY
LOG

Company Elk Energy Holdings, LLC Well Albers Trust #1-36 Field Albers County Thomas State Kansas		Company Elk Energy Holdings, LLC Well Albers Trust #1-36 Field Albers County Thomas State Kansas		Location: API #: 15-193-21084-00-00 SW SW SE NE 2626' FNL & 1193' FEL SEC 36 TWP 9S RGE 32W Permanent Datum Ground Level Elevation 3051' Log Measured From Kelly Bushing Drilling Measured From Kelly Bushing Other Services CNL/CDL DIL	
Date	4/6/2021	Run Number	Two		
Depth Driller	4700'				
Depth Logger	4698'				
Bottom Logged Interval	4697'				
Top Log Interval	3600'				
Casing Driller	8.625" @ 348'				
Casing Logger	348'				
Bit Size	7.875"				
Type Fluid in Hole	Chemical				
Salinity, ppm CL	1000				
Density / Viscosity	9.2 55				
pH / Fluid Loss	8.0 8.0				
Source of Sample	FLOWLINE				
Rm @ Meas. Temp	0.85 @ 68				
Rmt @ Meas. Temp	0.64 @ 68				
Rmc @ Meas. Temp	1.15 @ 68				
Source of Rmt / Rmc	CHARTS				
Rm @ BHT	0.47 @ 123				
Operating Rig Time	4 Hours				
Max Rec. Temp. F	123 Deg F				
Equipment Number	P-24				
Location	HAYS				
Recorded By	T. Martin				
Witnessed By	Ryan Davis				

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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.

Oakley, 183 N & I-70, 2 N to TH G, 2 E, 1/4 N, W 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		This Log Record Was Witnessed By	
Engineer: T. Martin		Primary Witness: Ryan Davis	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		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 Mandrel & Armadillo ML Electronics (2014)	5.50	3.50	100.00
Dataset: elk_albers trust #1-36.db: field/well/MEL/pass3 Total length: 5.50 ft Total weight: 100.00 lb O.D.: 3.50 in						

Log Variables

DatabaseC:\ProgramData\Warrior\Data\elk_albers trust #1-36.db
Dataset field/well/StkMI/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	123	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	350	70		4698

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



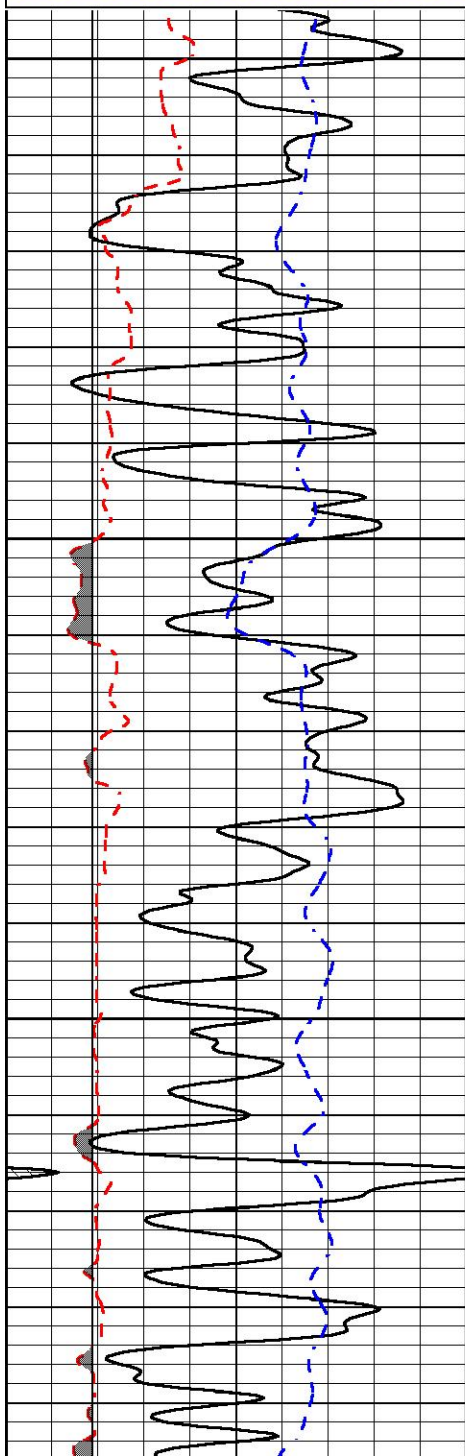
MIDWEST WIRELINE

MAIN PASS

Database File elk_albers trust #1-36.db
Dataset Pathname StkMI/pass3.1
Presentation Format _micro
Dataset Creation Tue Apr 06 12:56:34 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

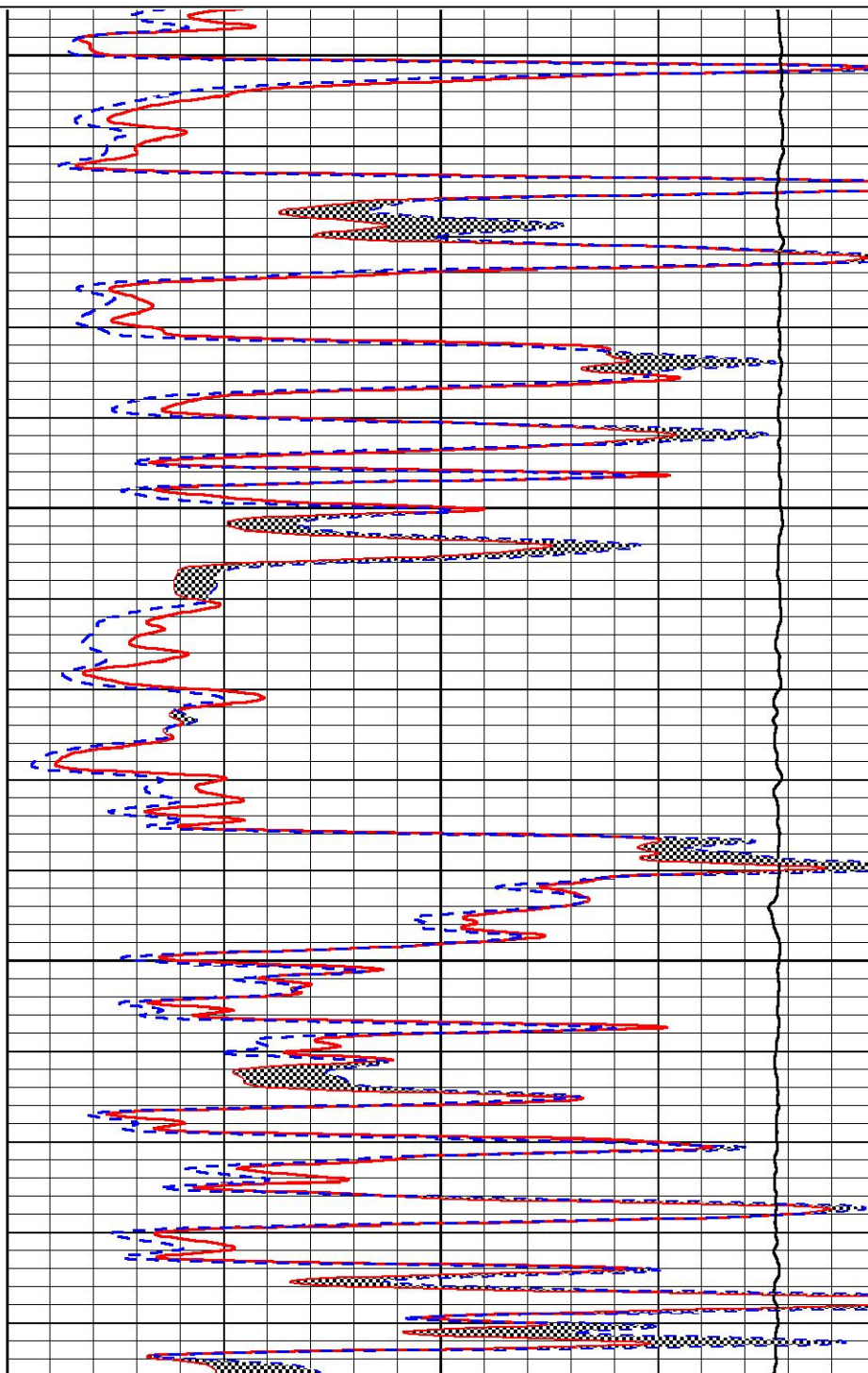
0	MICRO INVERSE 1 X 1 (Ohm-m)	40
0	MICRO NORMAL 2" (Ohm-m)	40
10000	Line Weight (lb)	0

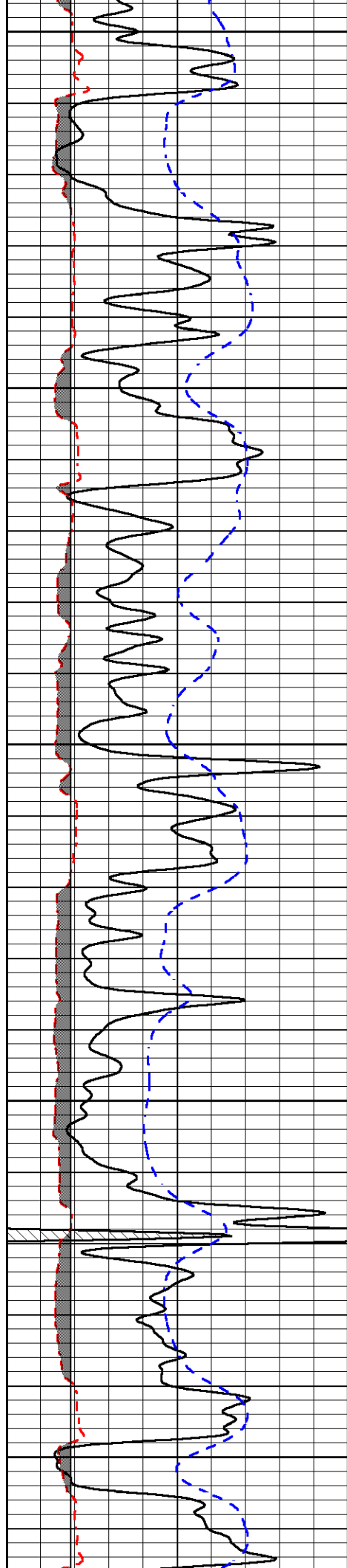


3600

3650

3700





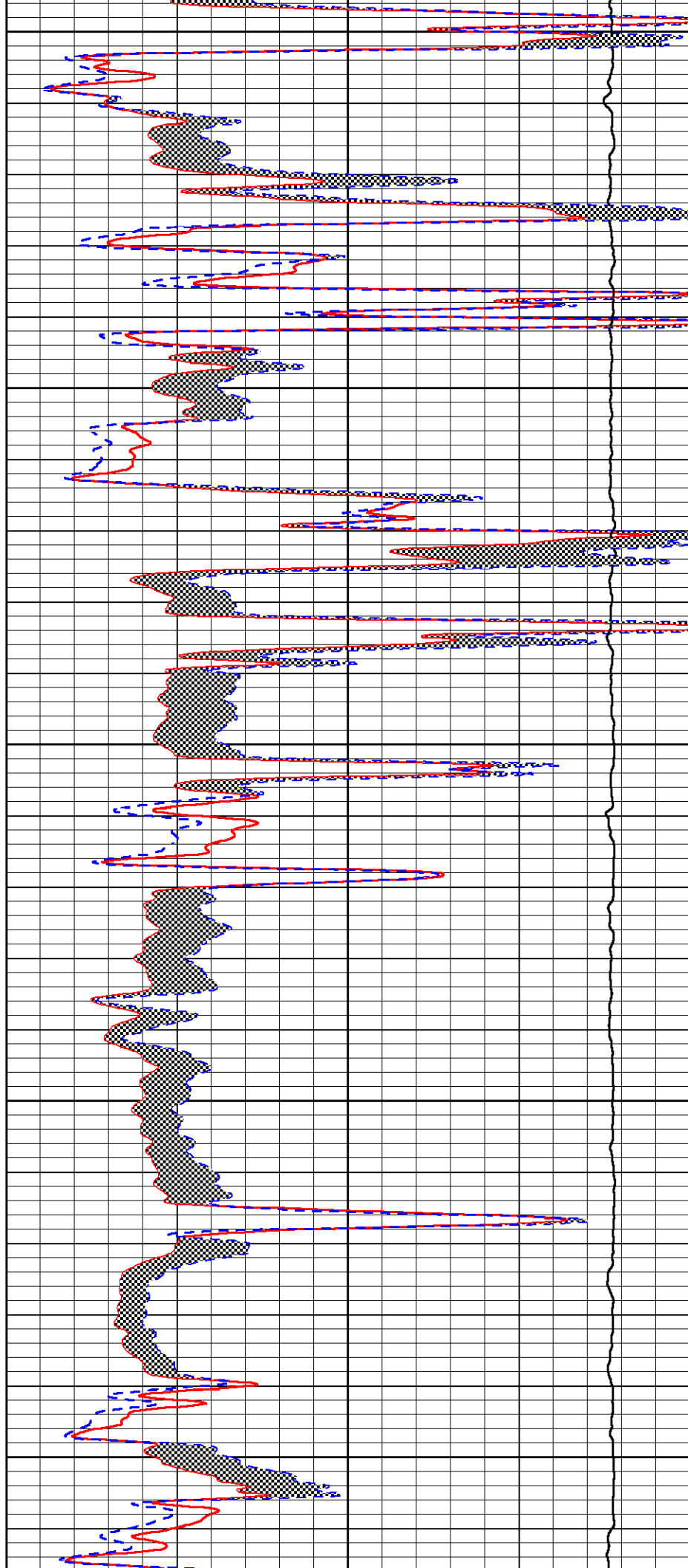
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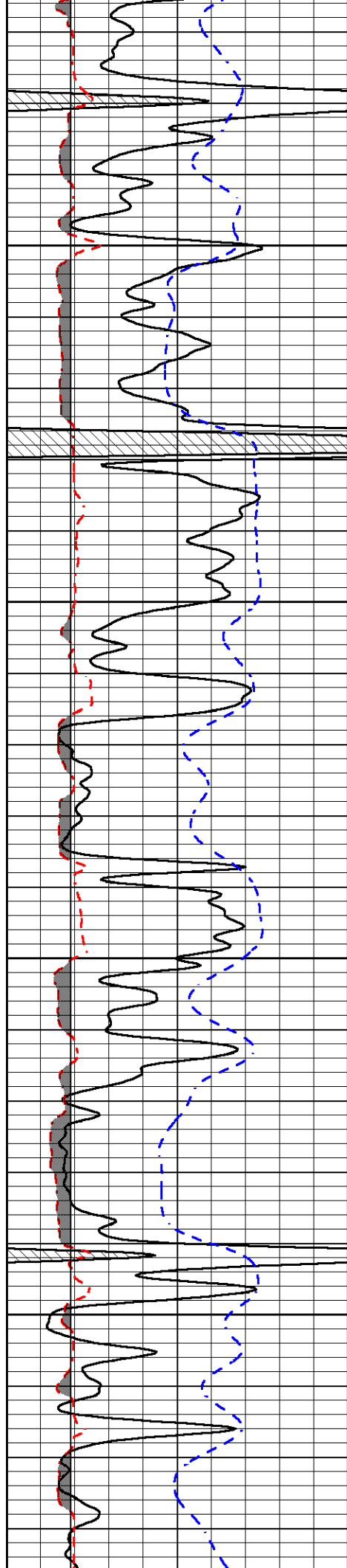
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3850

3900

3950



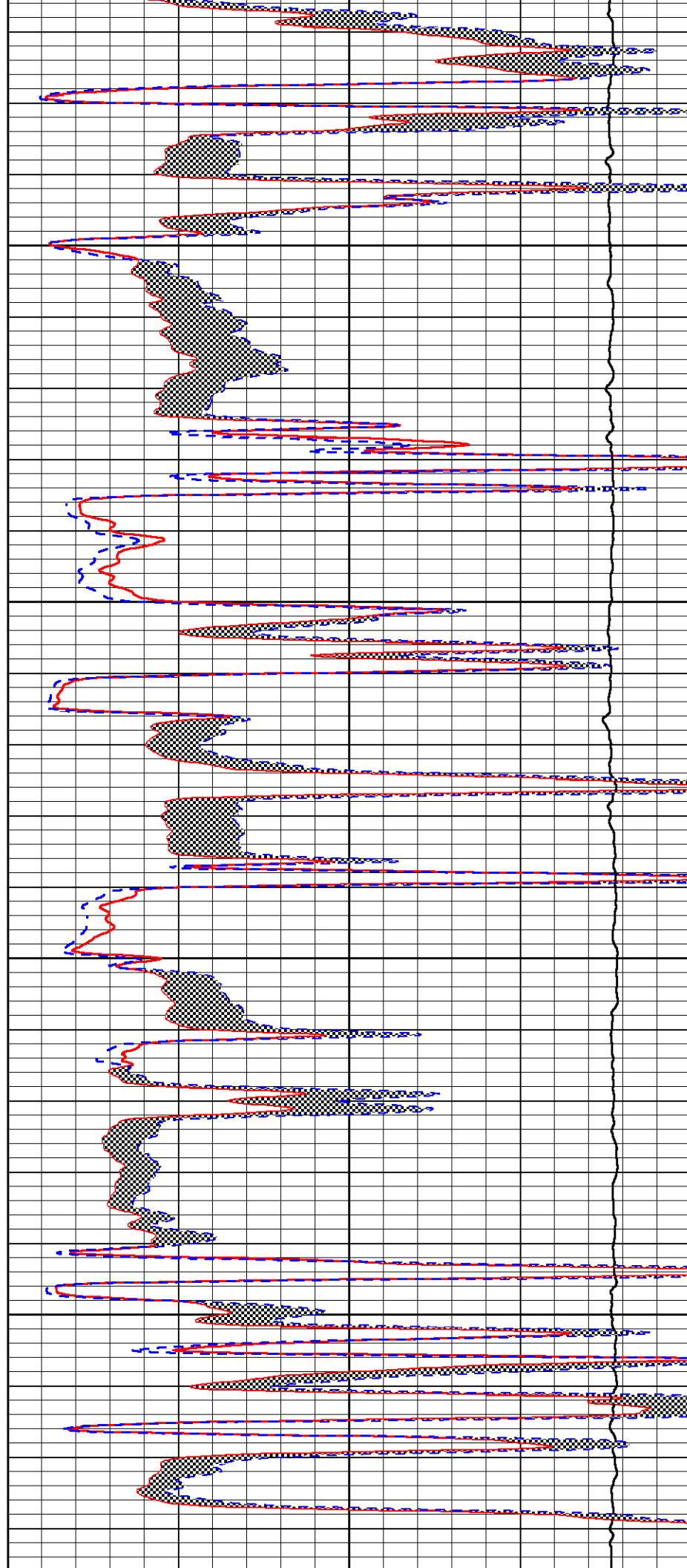


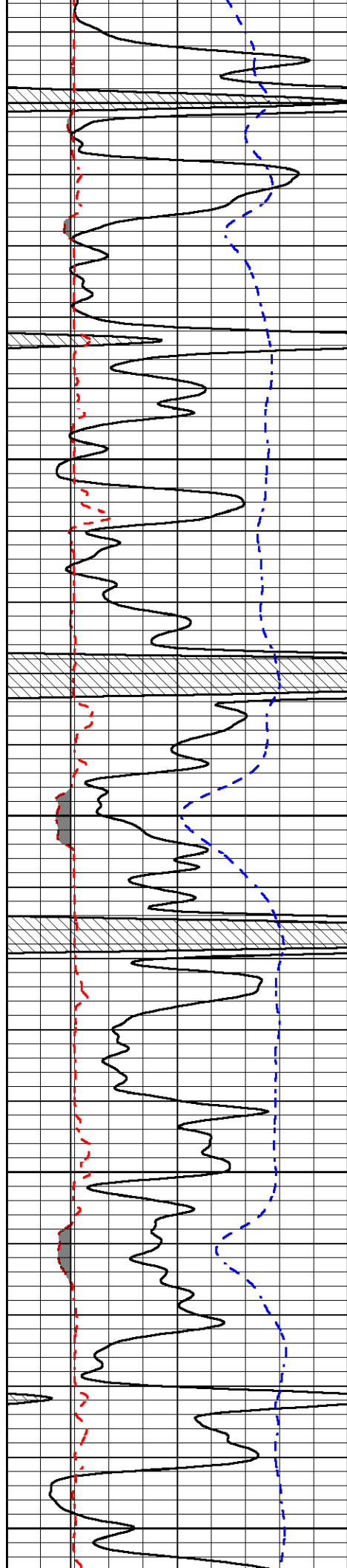
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4050

4100

4150





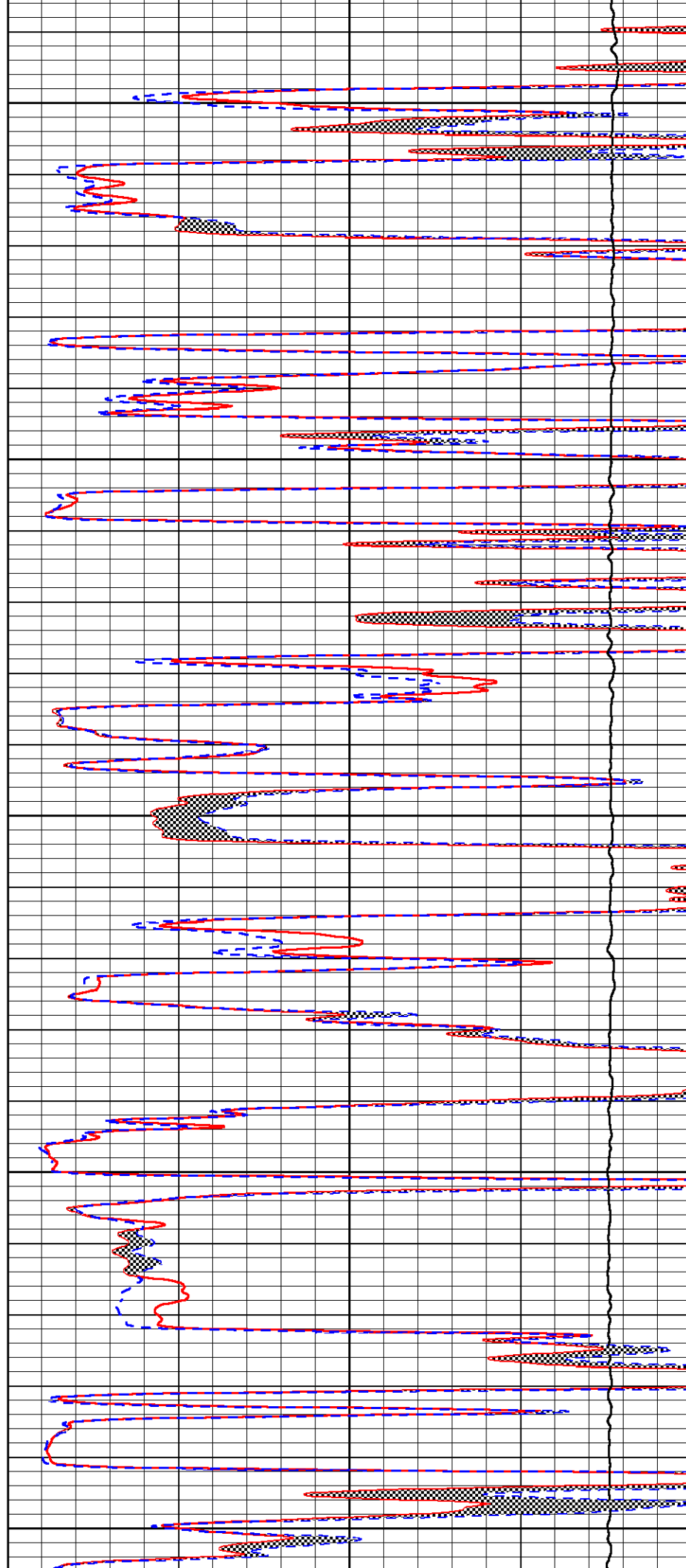
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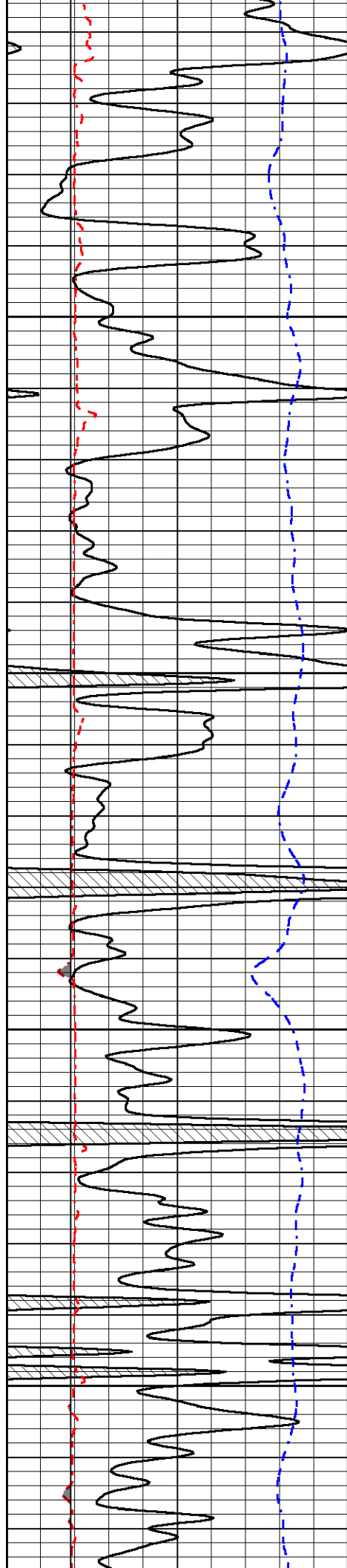
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4300

4350

4400



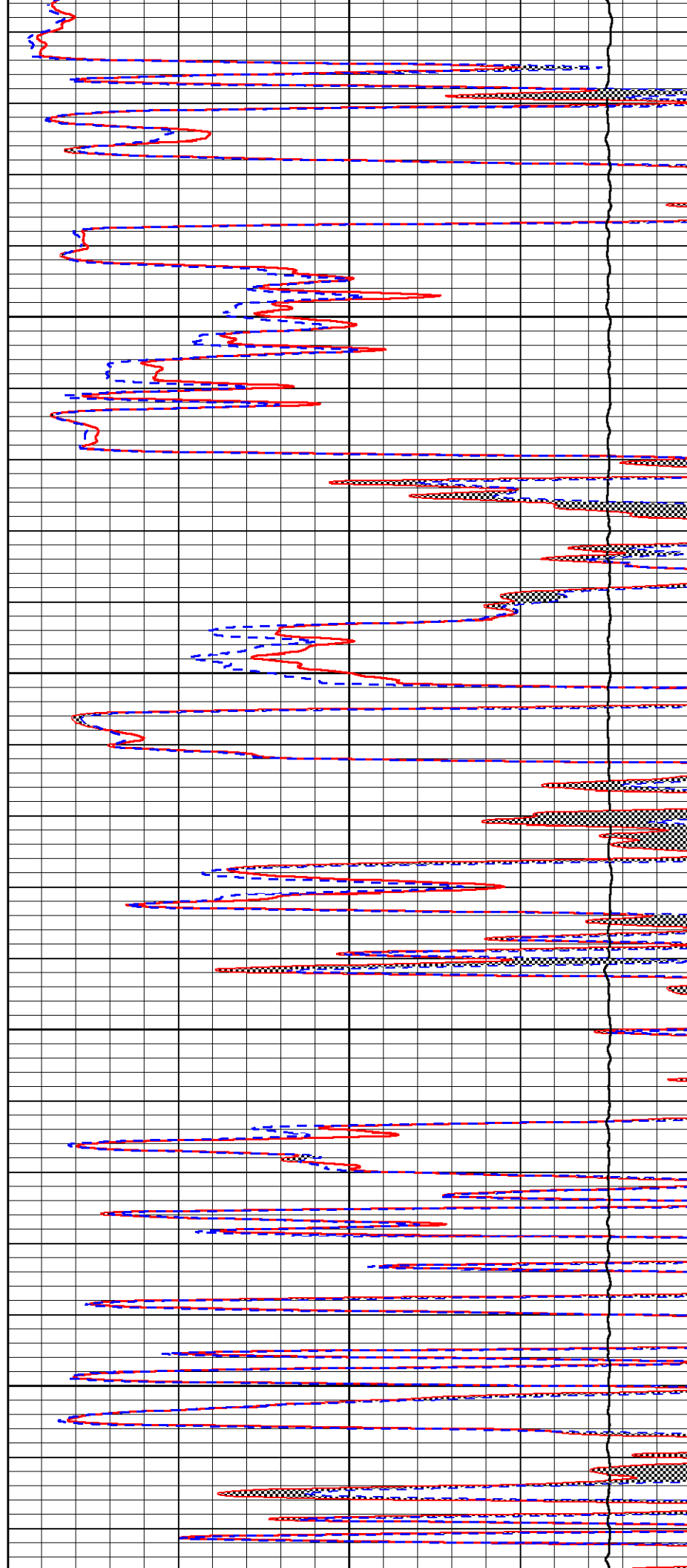


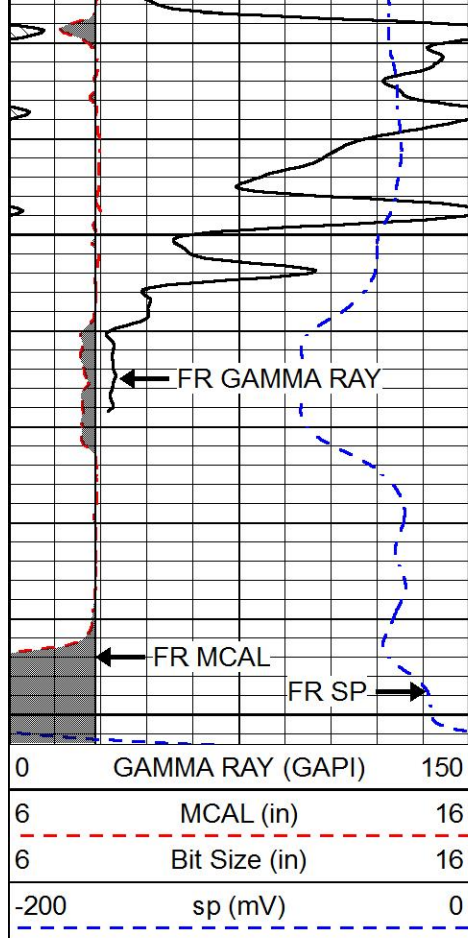
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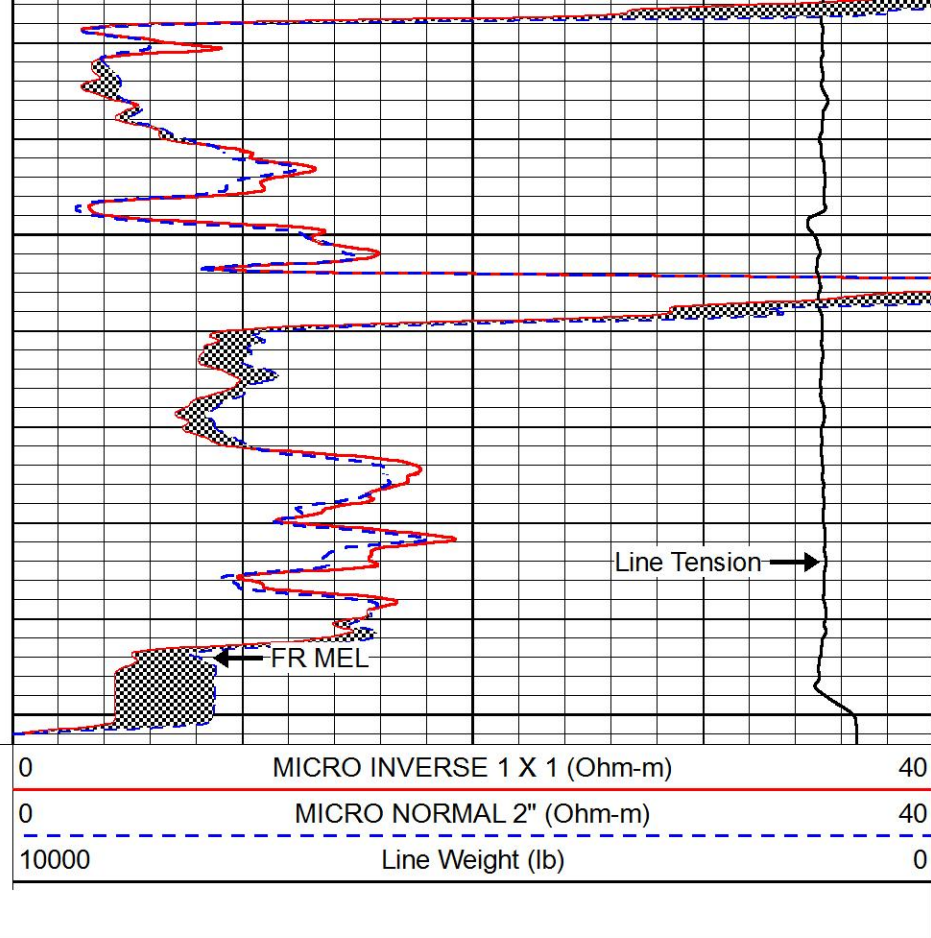
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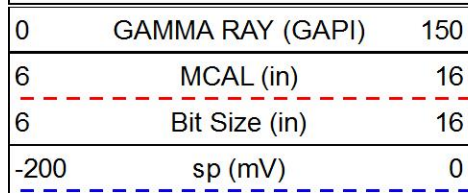
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MIDWEST WIRELINE

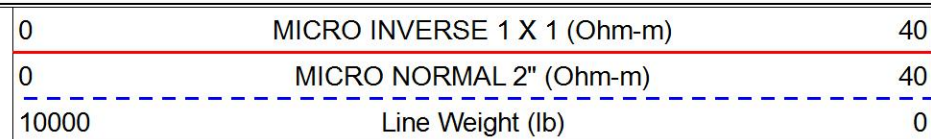
REPEAT SECTION

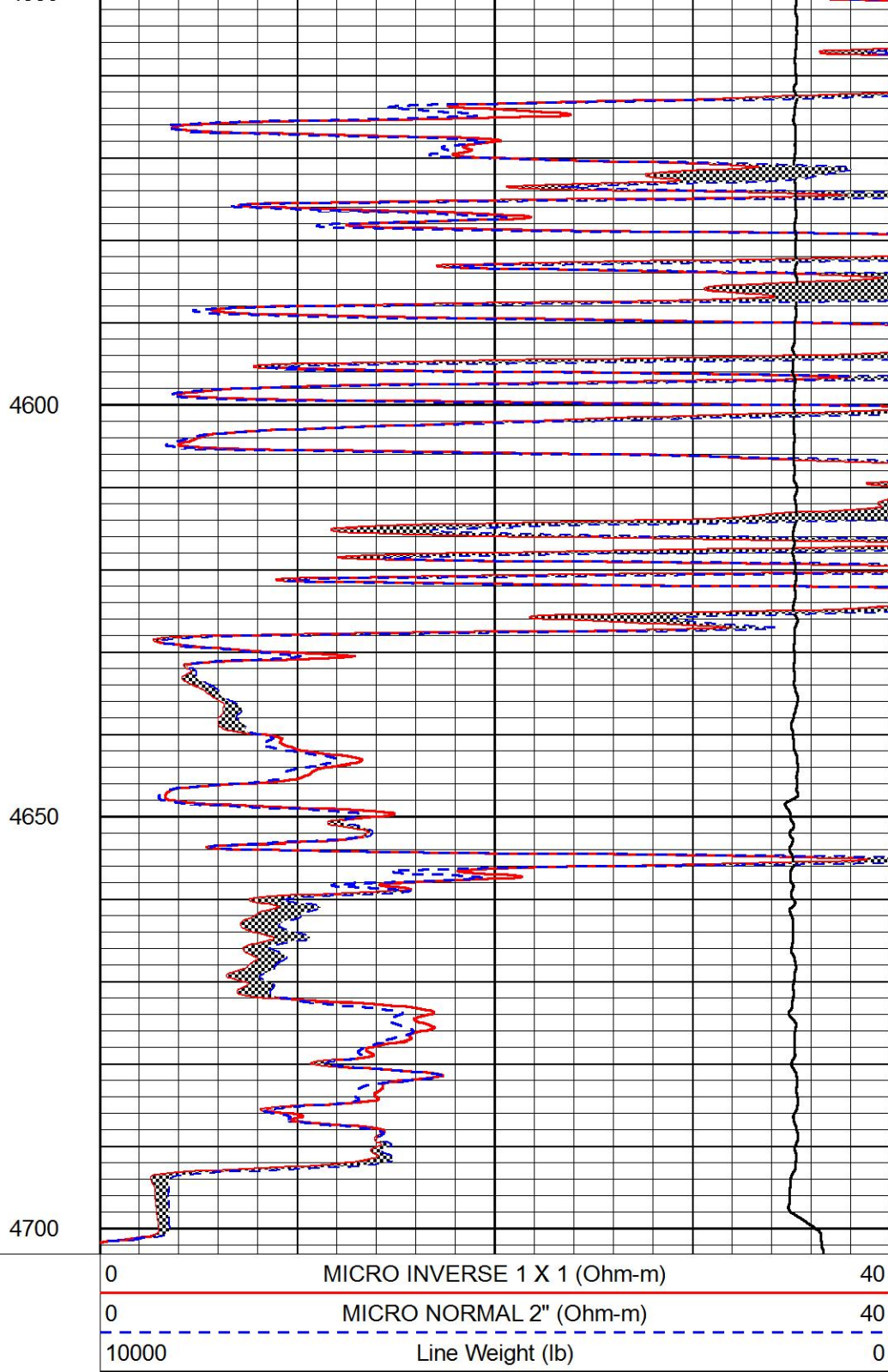
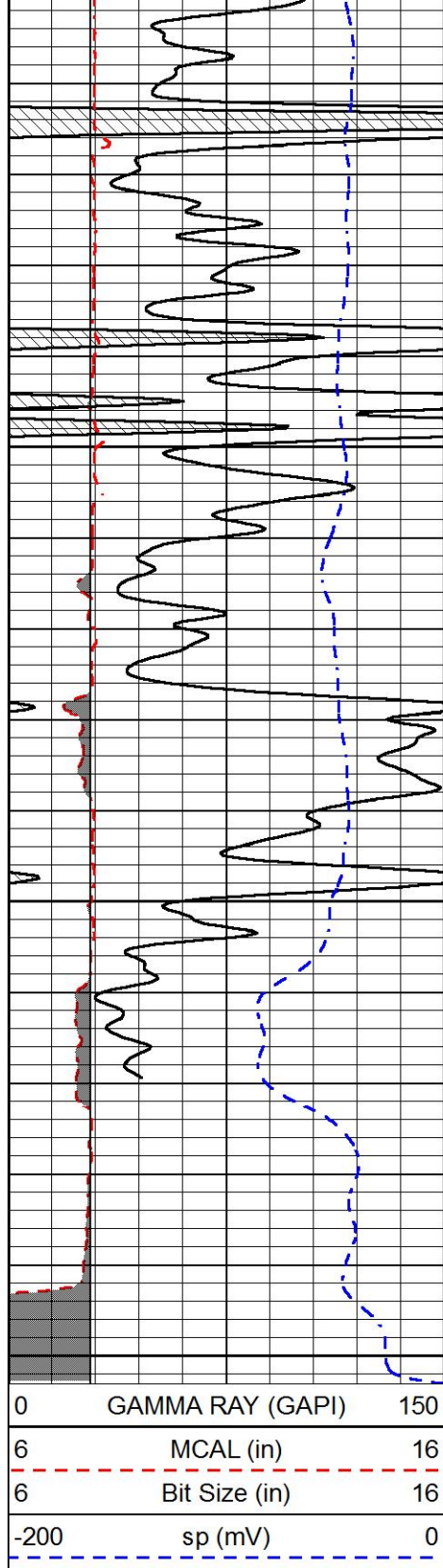
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 Dataset Pathname StkMI/pass2.1
 Presentation Format _micro
 Dataset Creation Tue Apr 06 12:28:32 2021
 Charted by Depth in Feet scaled 1:240



4500

4550





MIDWEST WIRELINE

Company	Elk Energy Holdings, LLC
Well	Albers Trust #1-36
Field	Albers
County	Thomas
State	Kansas