



MIDWEST WIRELINE

DUAL INDUCTION

Company Satchell Creek Petroleum LLC		Well Hobbs A #5-34		Field		County Graham		State Kansas	
Company Satchell Creek Petroleum LLC		Well Hobbs A #5-34		Field		County Graham		State Kansas	
Location:		API #: 15-065-24287-00-00		Other Services					
Permanent Datum		Ground Level		Elevation		2486		CNL/CDL MEL/BHCS	
Log Measured From		Kelly Bushing		Elevation		2493		D.F.	
Drilling Measured From		Kelly Bushing		G.L.		2486			
Date		9/6/2023							
Run Number		One							
Depth Driller		4444							
Depth Logger		4438							
Bottom Logged Interval		4437							
Top Log Interval		200							
Casing Driller		8.625 @ 220							
Casing Logger		221							
Bit Size		7.875							
Type Fluid in Hole		Chemical							
Salinity, ppm CL		1700							
Density / Viscosity		9.2		54					
pH / Fluid Loss		11.0		5.4					
Source of Sample		Flowline							
Rm @ Meas. Temp		0.75 @ 74							
Rmt @ Meas. Temp		0.56 @ 74							
Rmc @ Meas. Temp		1.01 @ 74							
Source of Rmt / Rmc		Charts							
Rm @ BHT		0.46 @ 120							
Operating Rig Time		4 Hours							
Max Rec. Temp. F		120							
Equipment Number		P-24							
Location		Hays							
Recorded By		T. Martin							
Witnessed By		Sydney Smith							

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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.

St Peter, KS, S to Graham Co Rd B,
1/4 W, S then W into

Log Measured From: Kelly Bushing7 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: Sydney Smith	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Log Variables

DatabaseC:\ProgramData\Warrior\Data\satchell_hobbs a #5-34.db
Dataset field/well/StkMI/pass3.1/_vars_

Top - Bottom

BOREID in 7.875	BOTTEMP degF 120	CASEOD in 5.5	CASETHCK in 0	FLUIDDEN g/cc 1	MATRXDEN g/cc 2.71	NPORSEL Limestone	PERFS No
SNDERR mmho/m 0	SNDERRM mmho/m -6	SPSHIFT mV 590	SRFTEMP degF 80	SZCOR Off	TDEPTH ft 4438		

Variable Description

BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
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

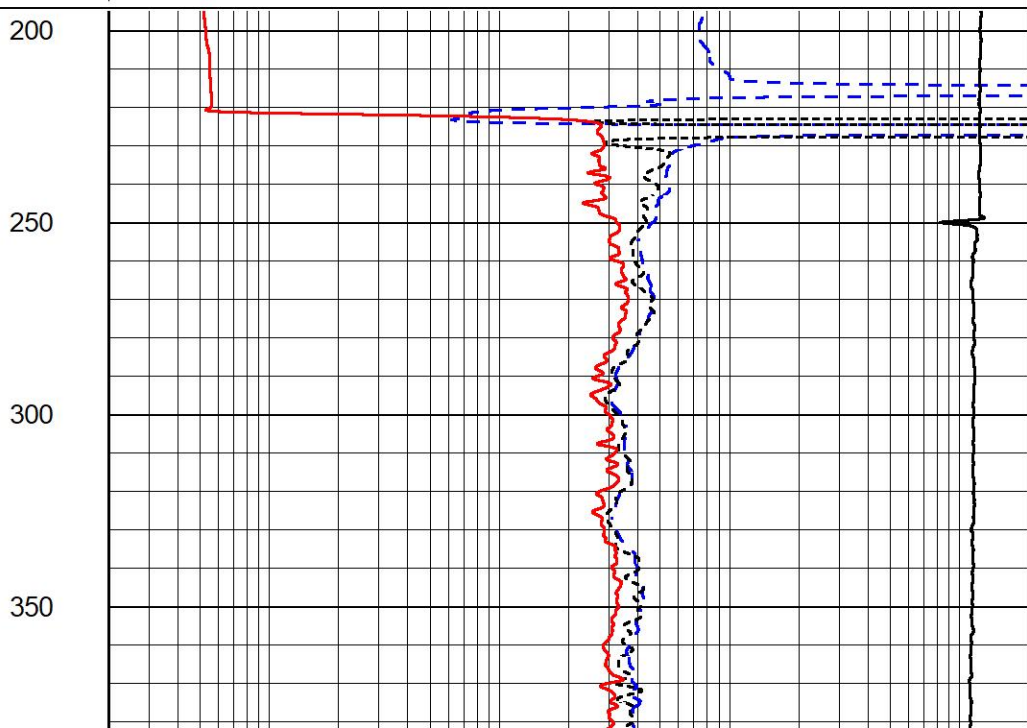
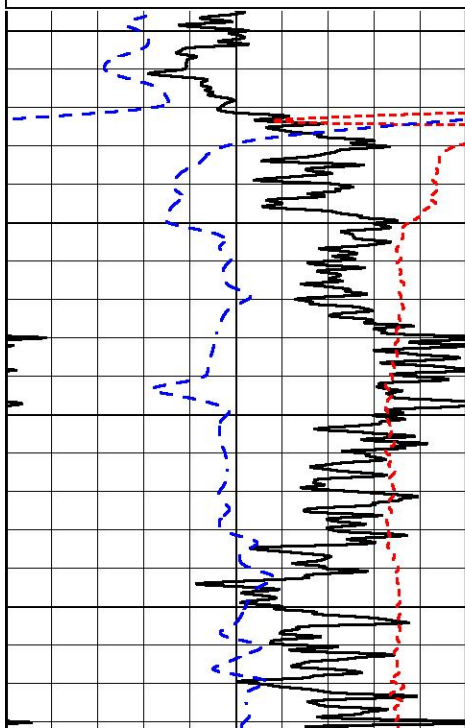
2" SCALE RESISTIVITY

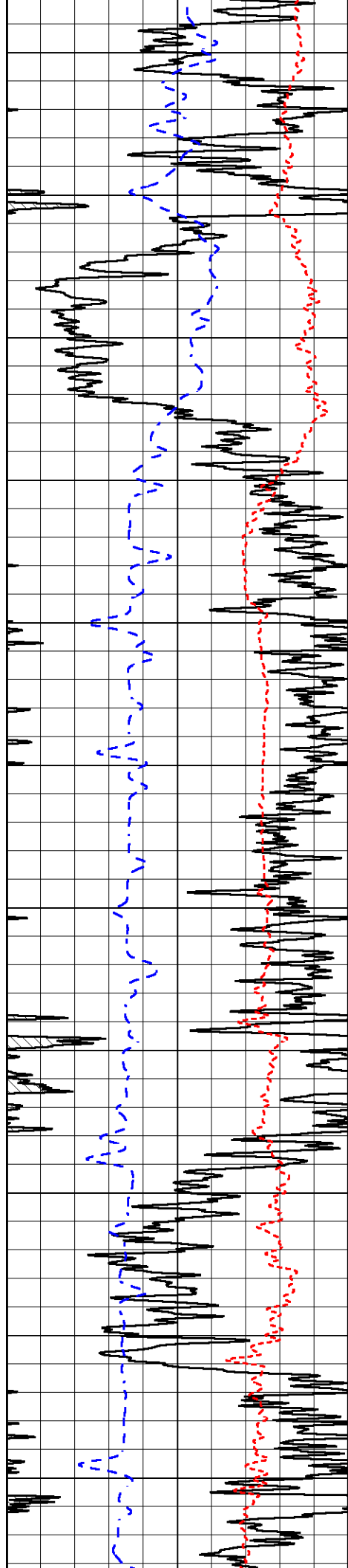
MAIN PASS

Database File satchell_hobbs a #5-34.db
Dataset Pathname StkMI/pass3.2
Presentation Format _dil
Dataset Creation Wed Sep 06 03:45:54 2023
Charted by Depth in Feet scaled 1:600

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0





400

450

500

550

600

650

700

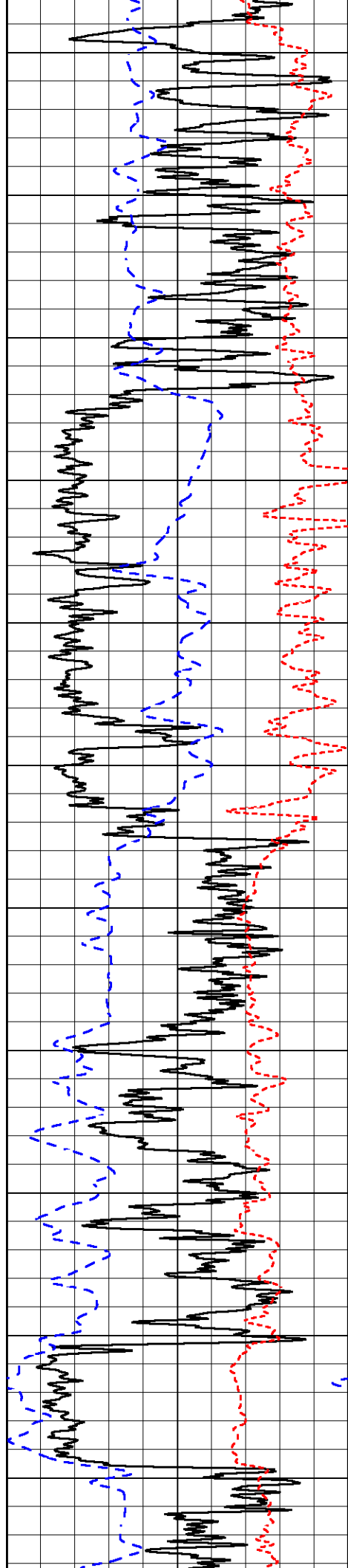
750

800

850

900





950

1000

1050

1100

1150

1200

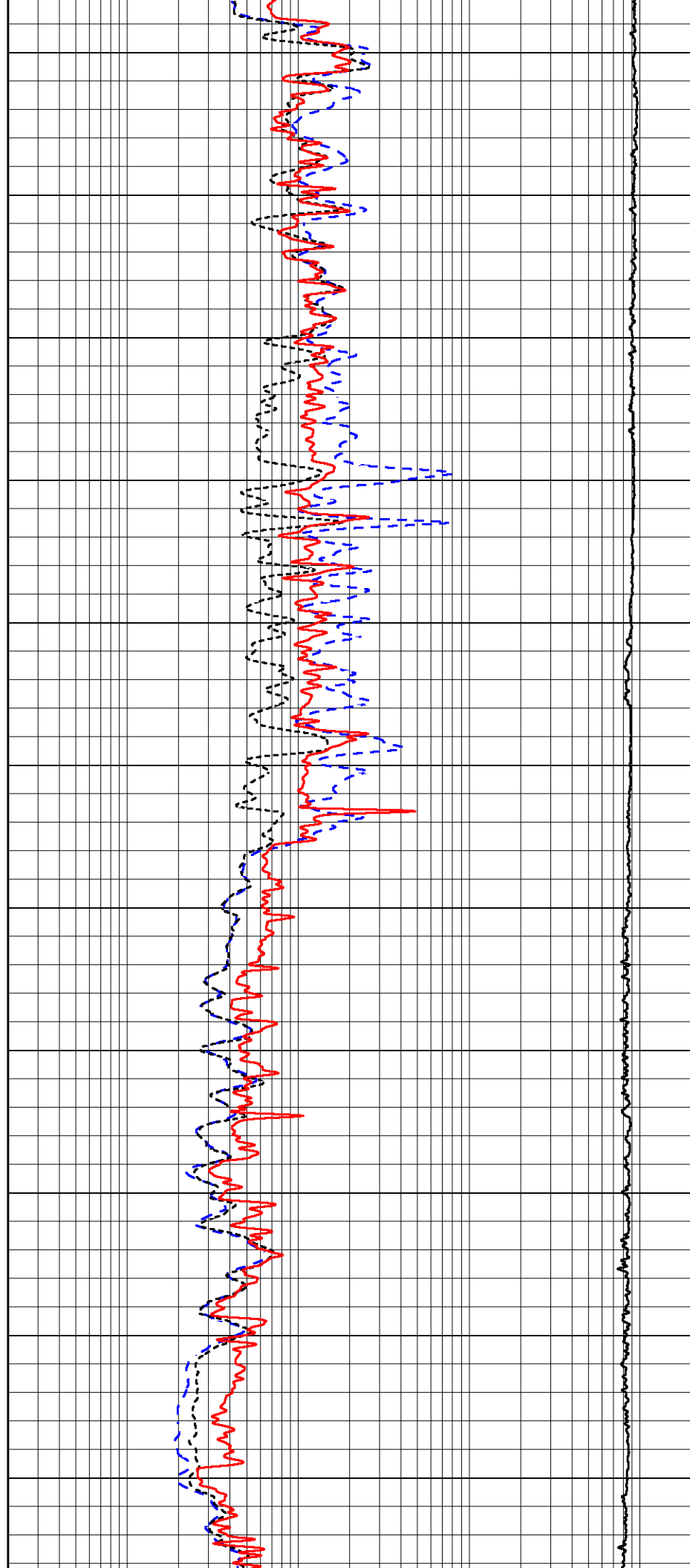
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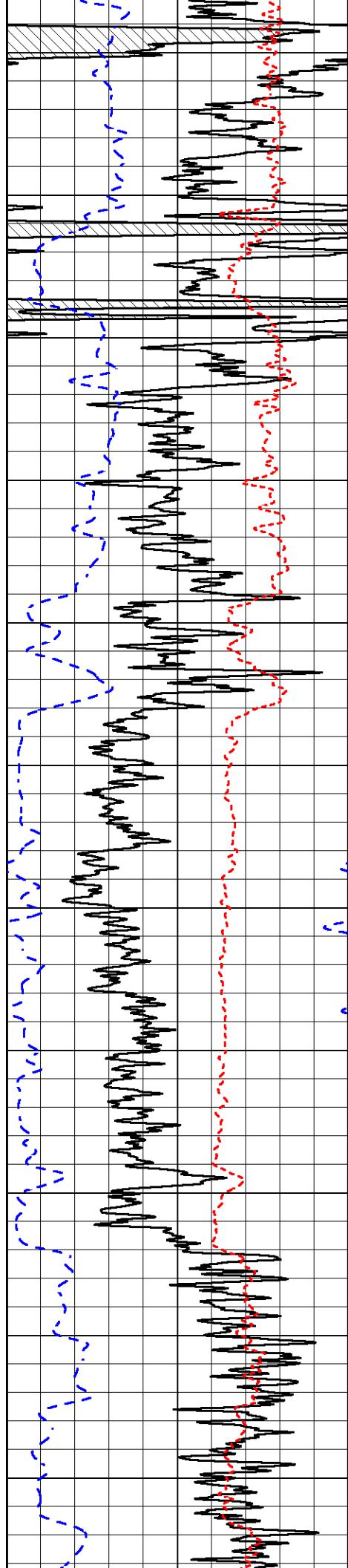
1300

1350

1400

1450





1500

1550

1600

1650

1700

1750

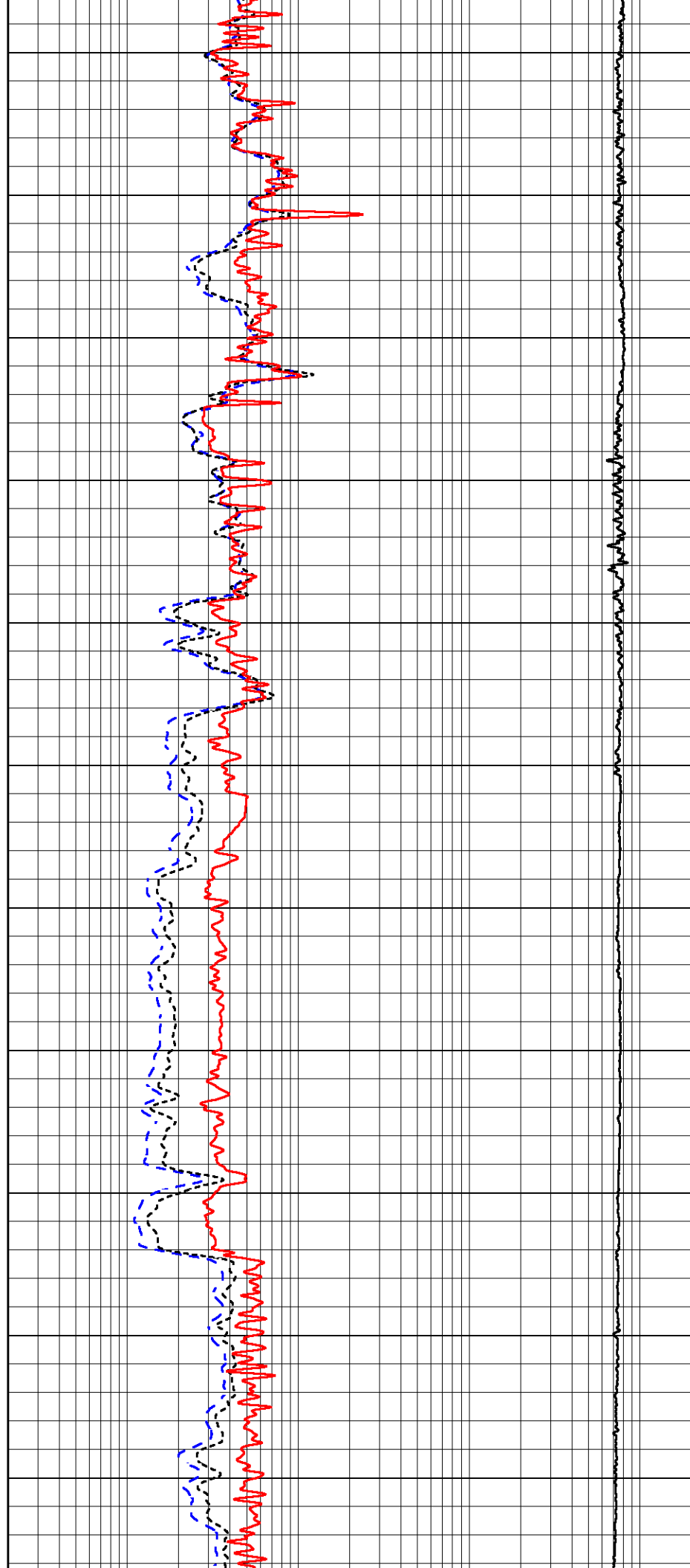
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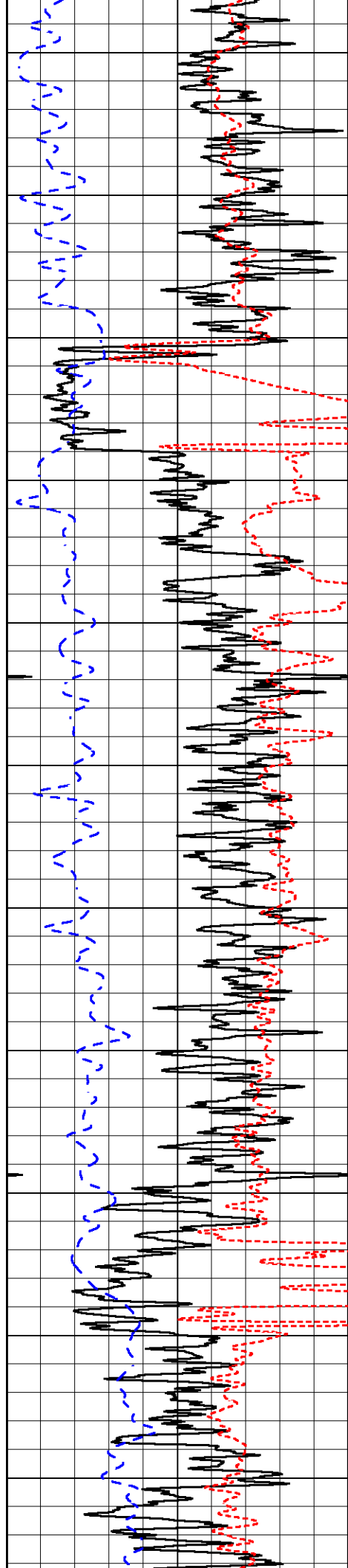
1850

1900

1950

2000





2050

2100

2150

2200

2250

2300

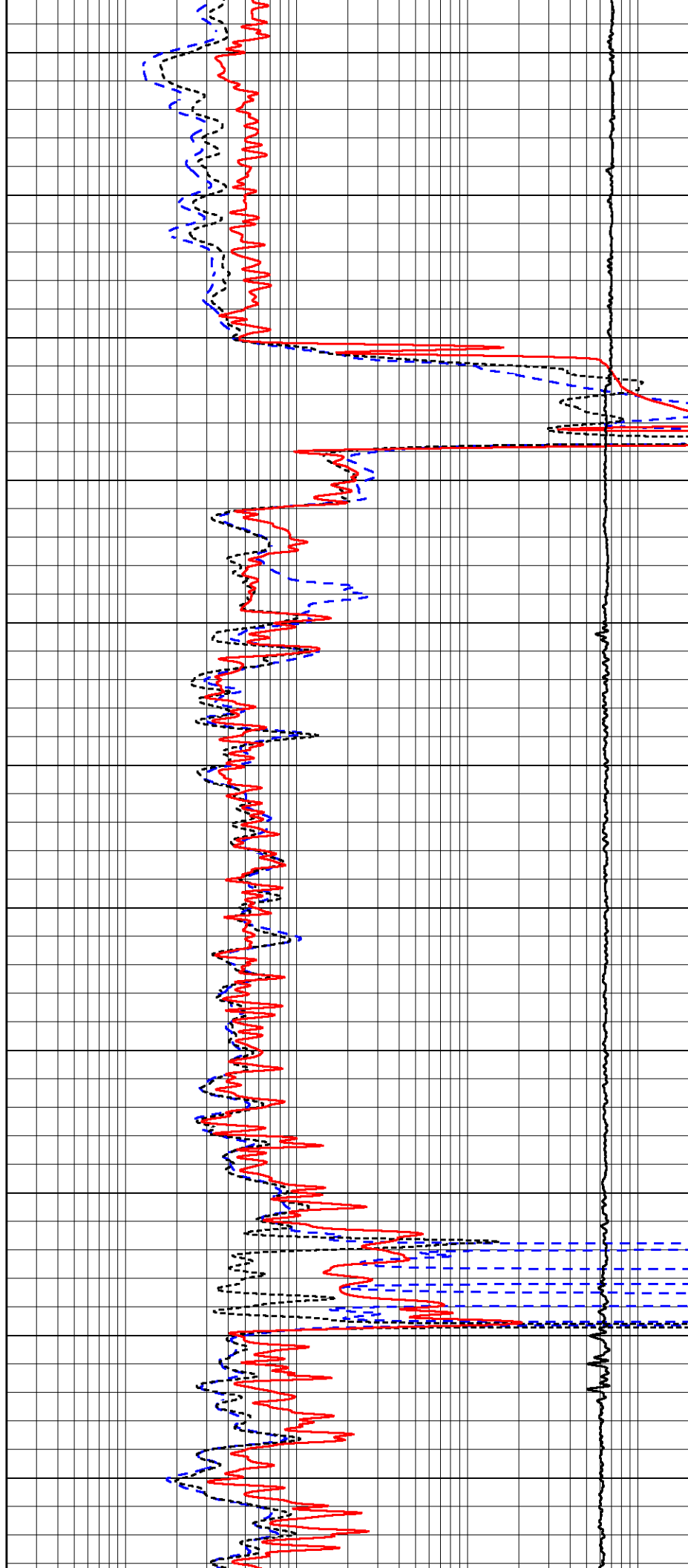
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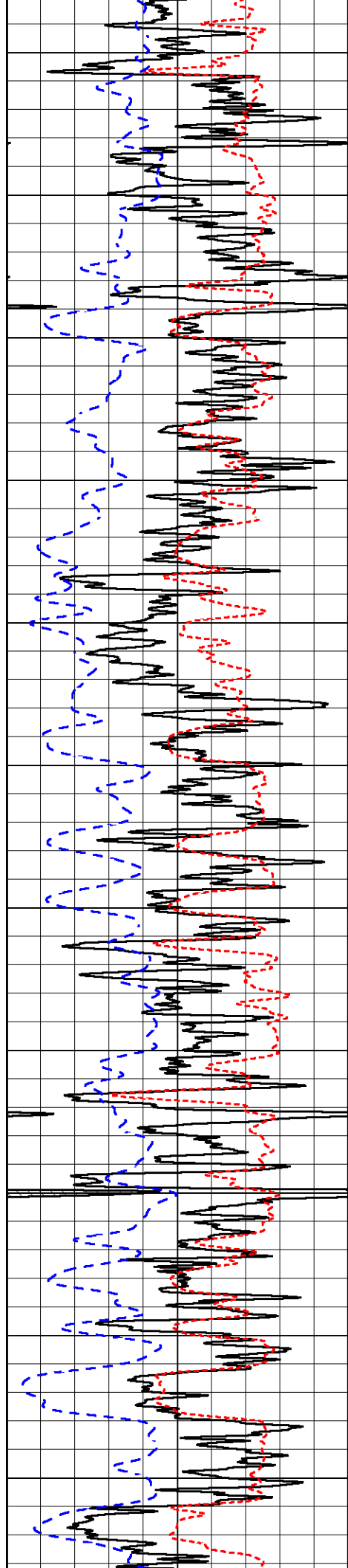
2400

2450

2500

2550





2600

2650

2700

2750

2800

2850

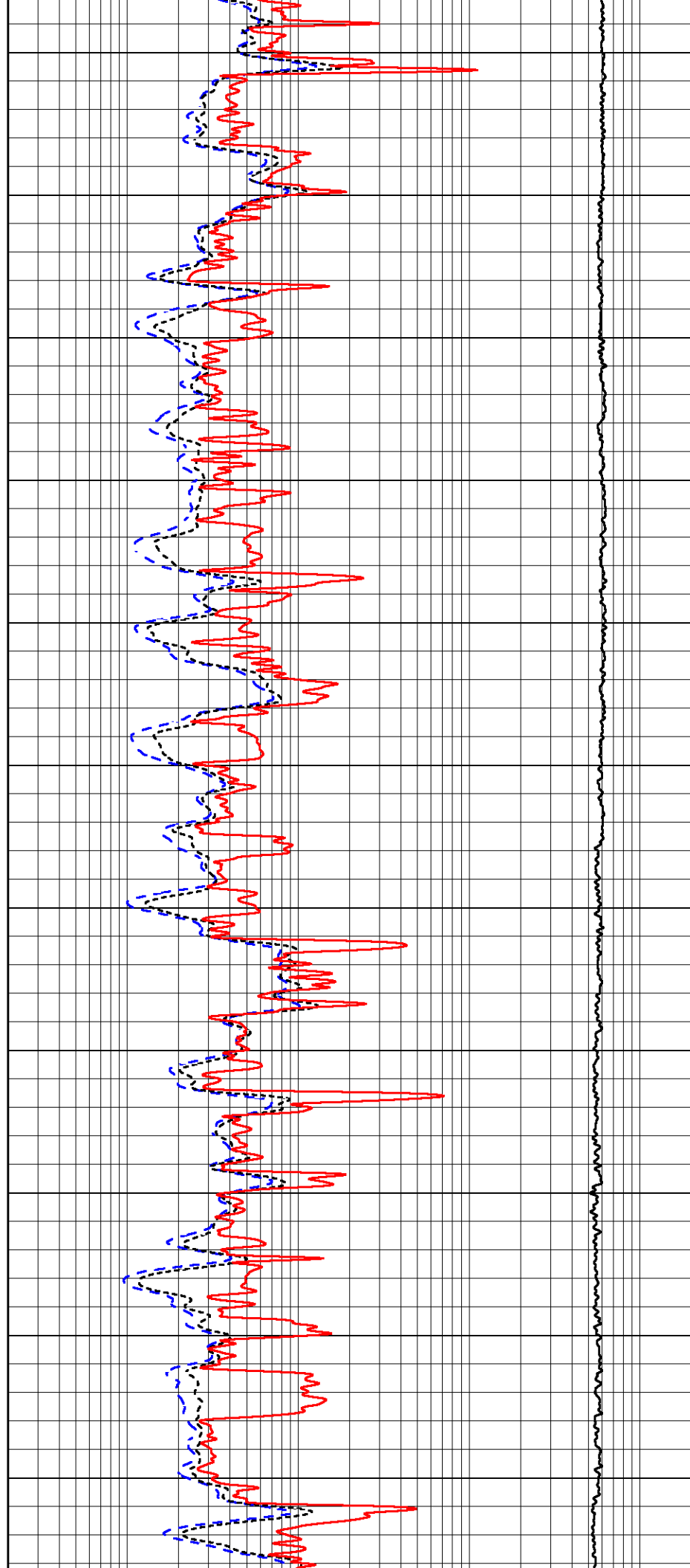
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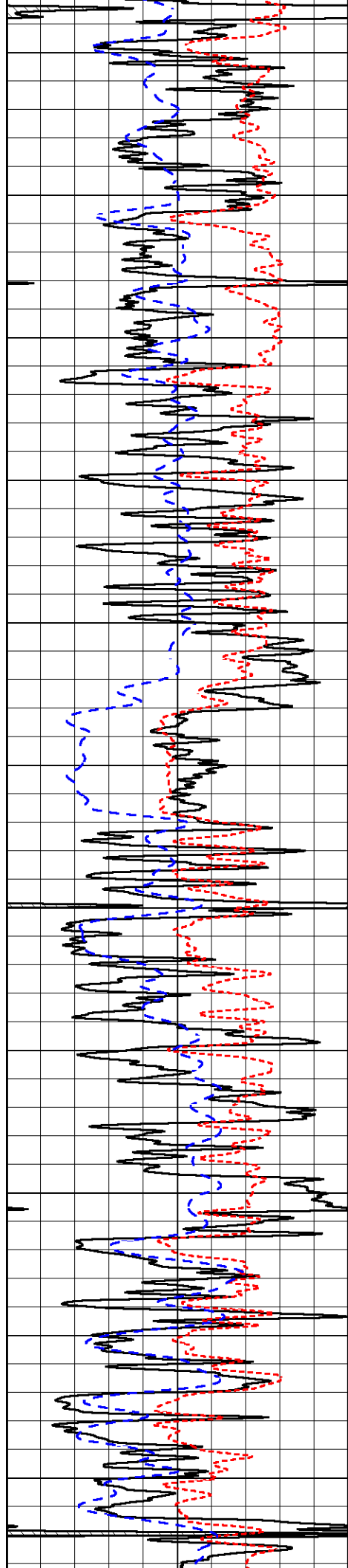
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3000

3050

3100





3150

3200

3250

3300

3350

3400

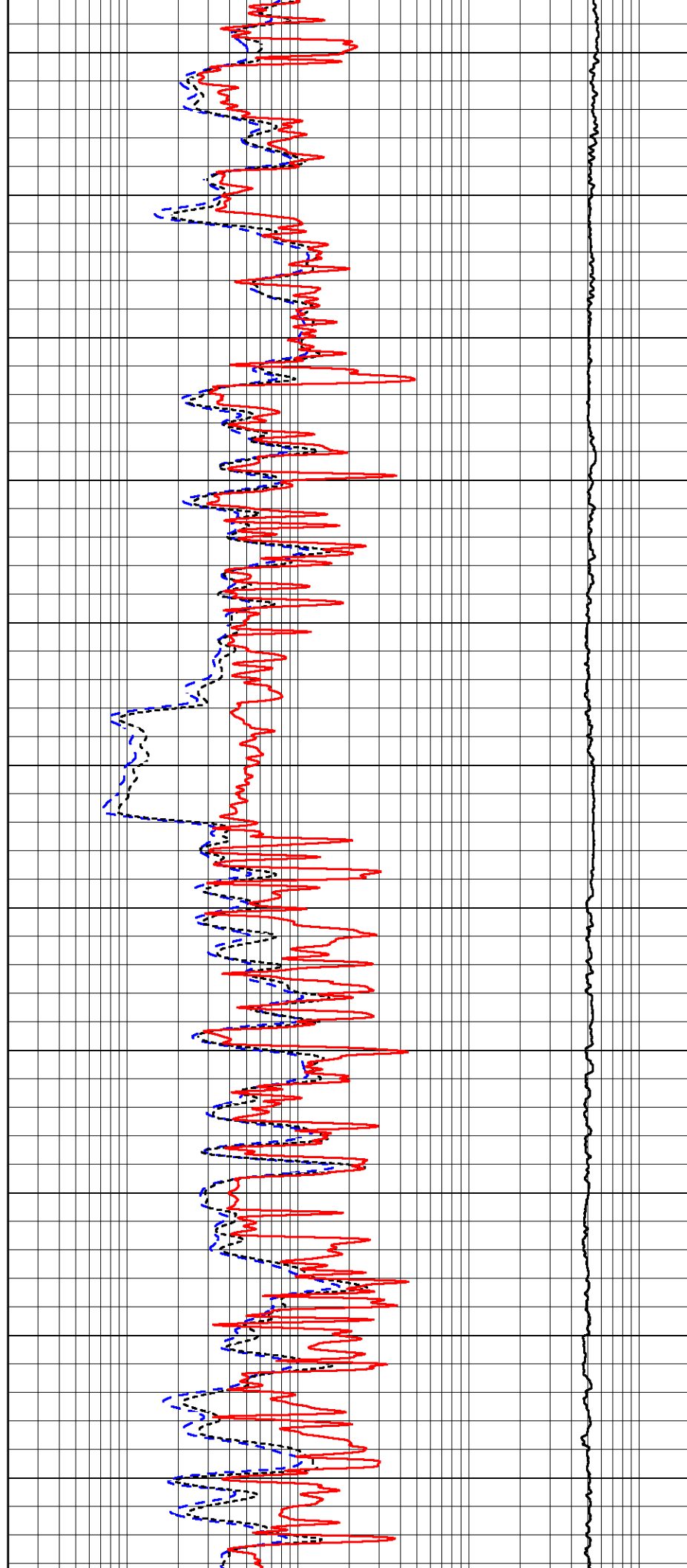
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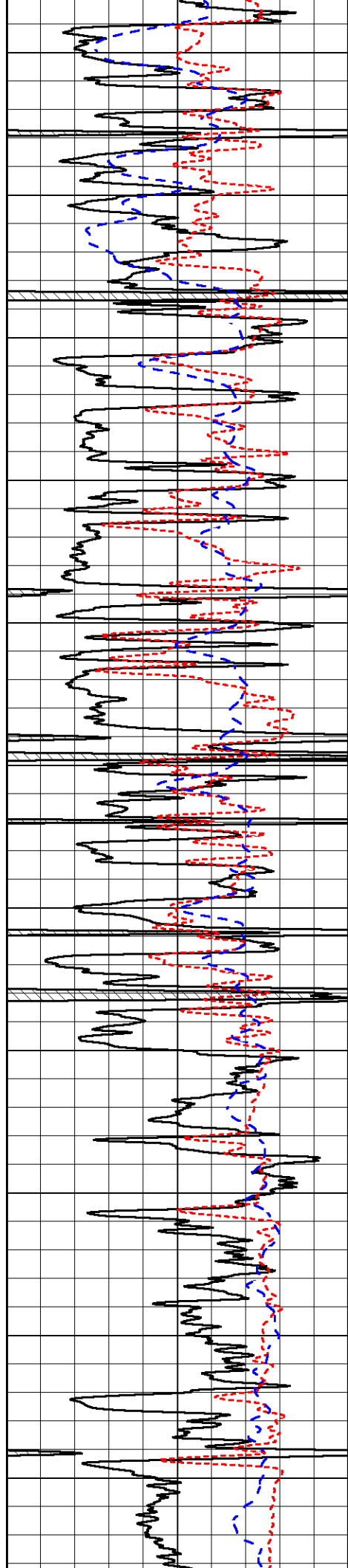
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3550

3600

3650





3700

3750

3800

3850

3900

3950

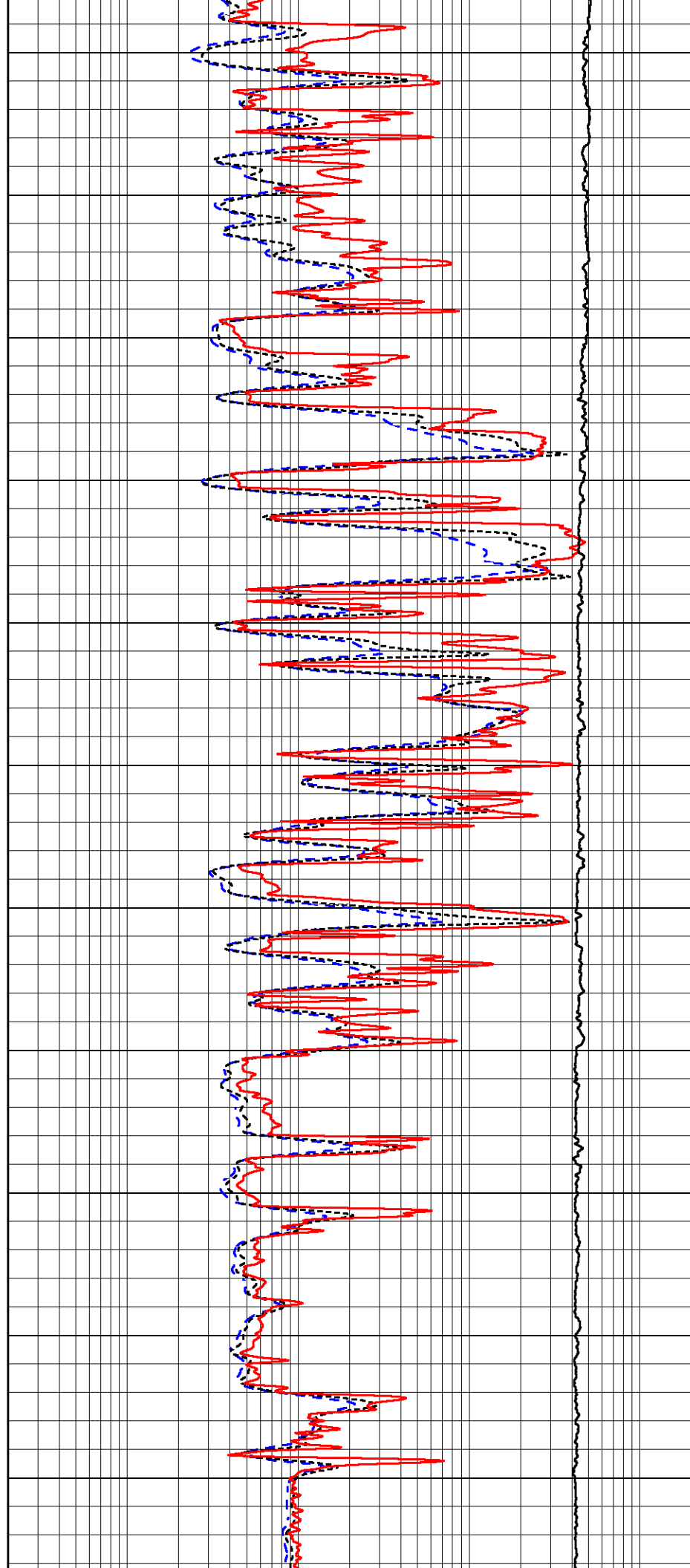
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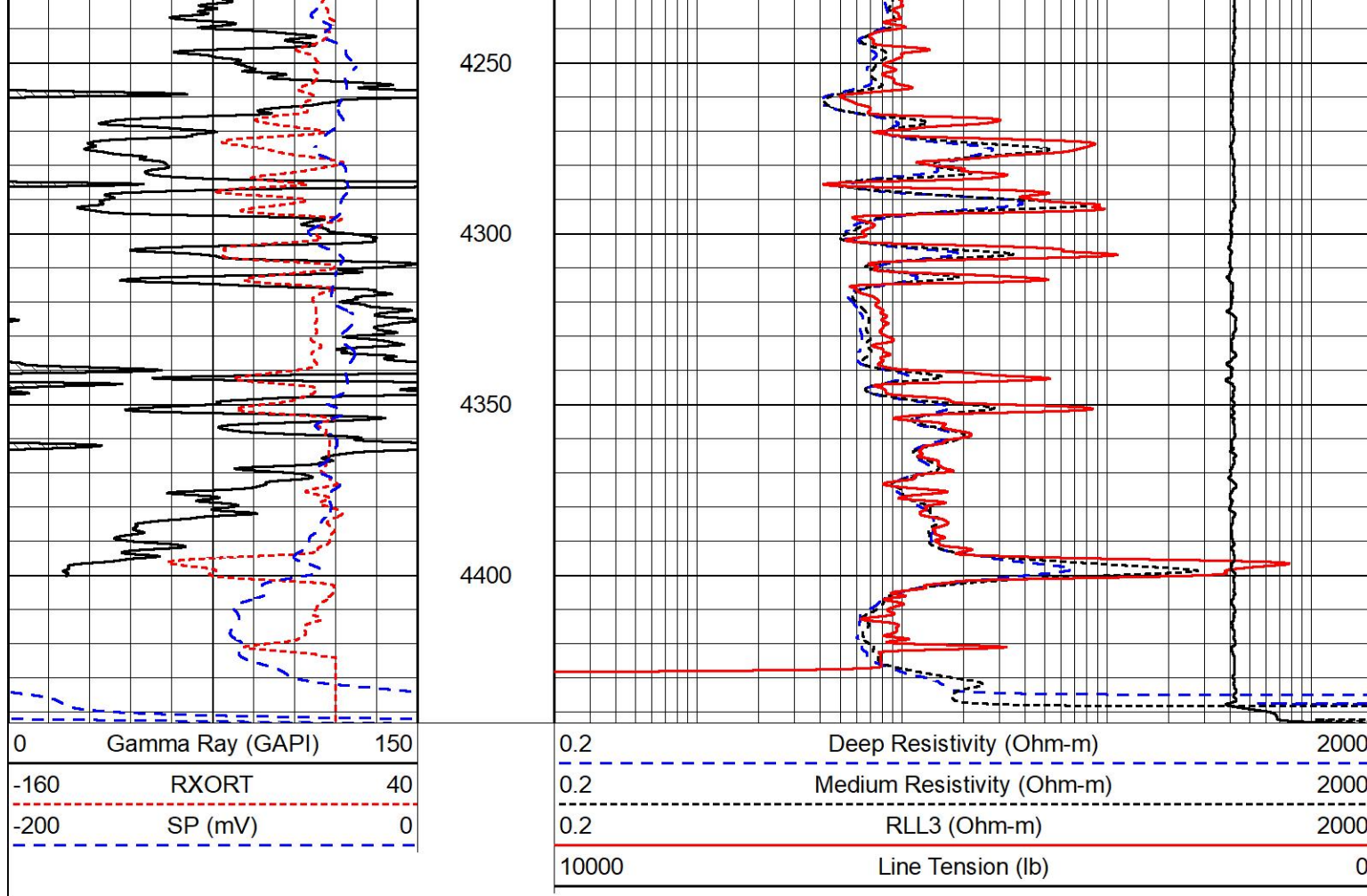
4050

4100

4150

4200



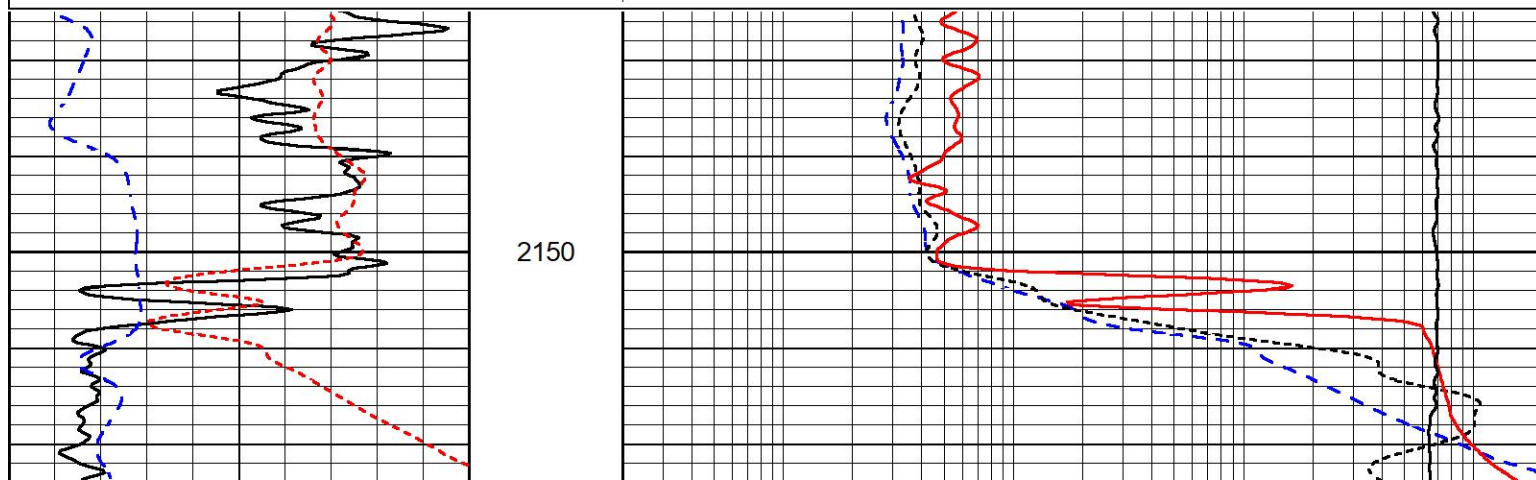
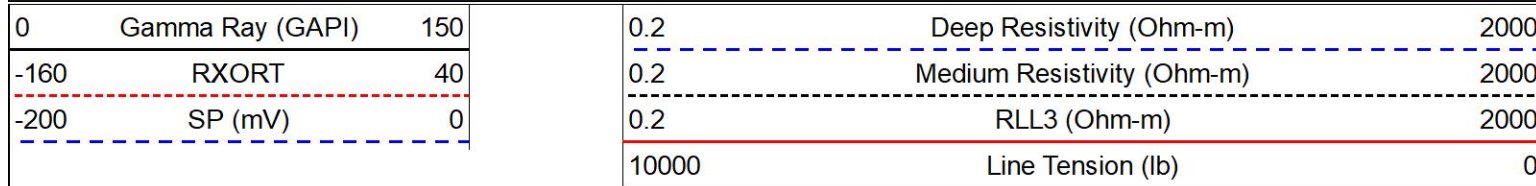


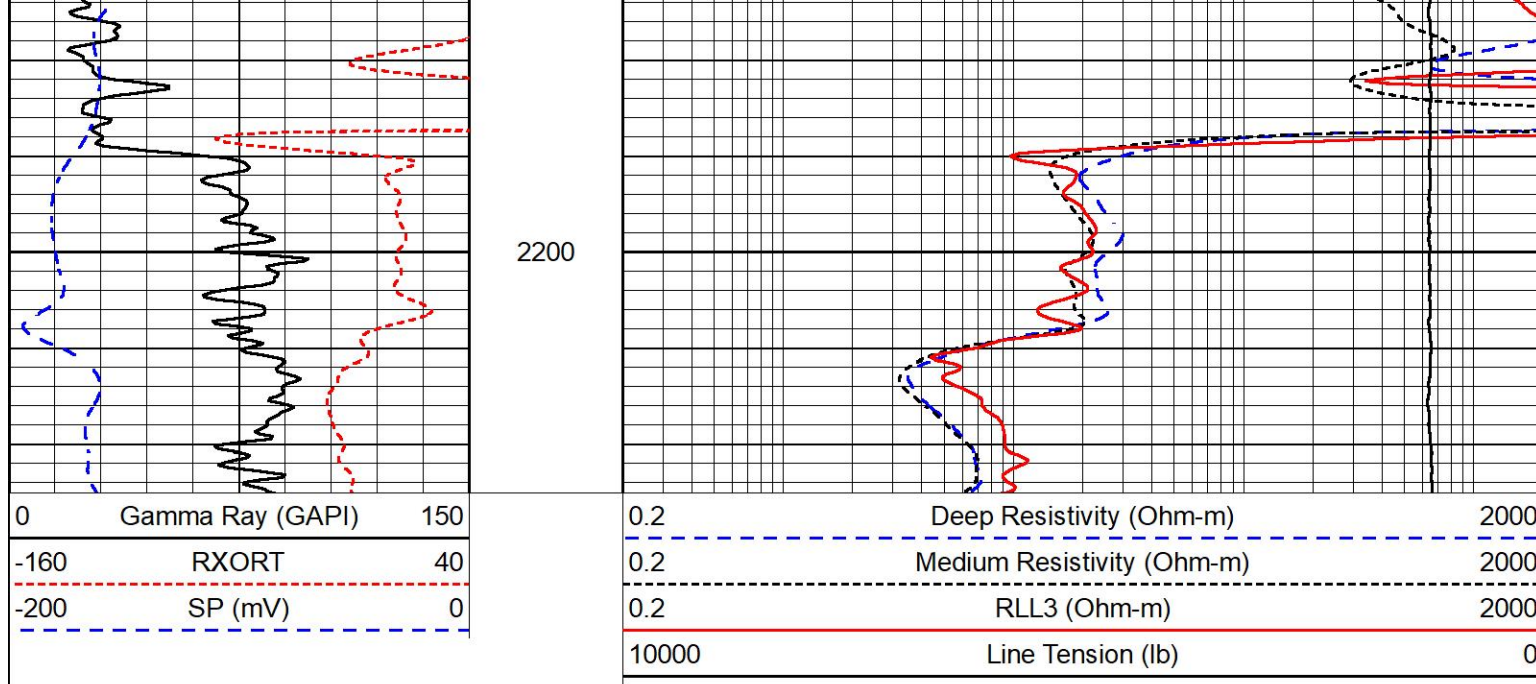
MIDWEST WIRELINE

ANHYDRITE SECTION

MAIN PASS

Database File satchell_hobbs a #5-34.db
 Dataset Pathname StkMI/pass3.4
 Presentation Format _dil
 Dataset Creation Wed Sep 06 03:15:11 2023
 Charted by Depth in Feet scaled 1:240



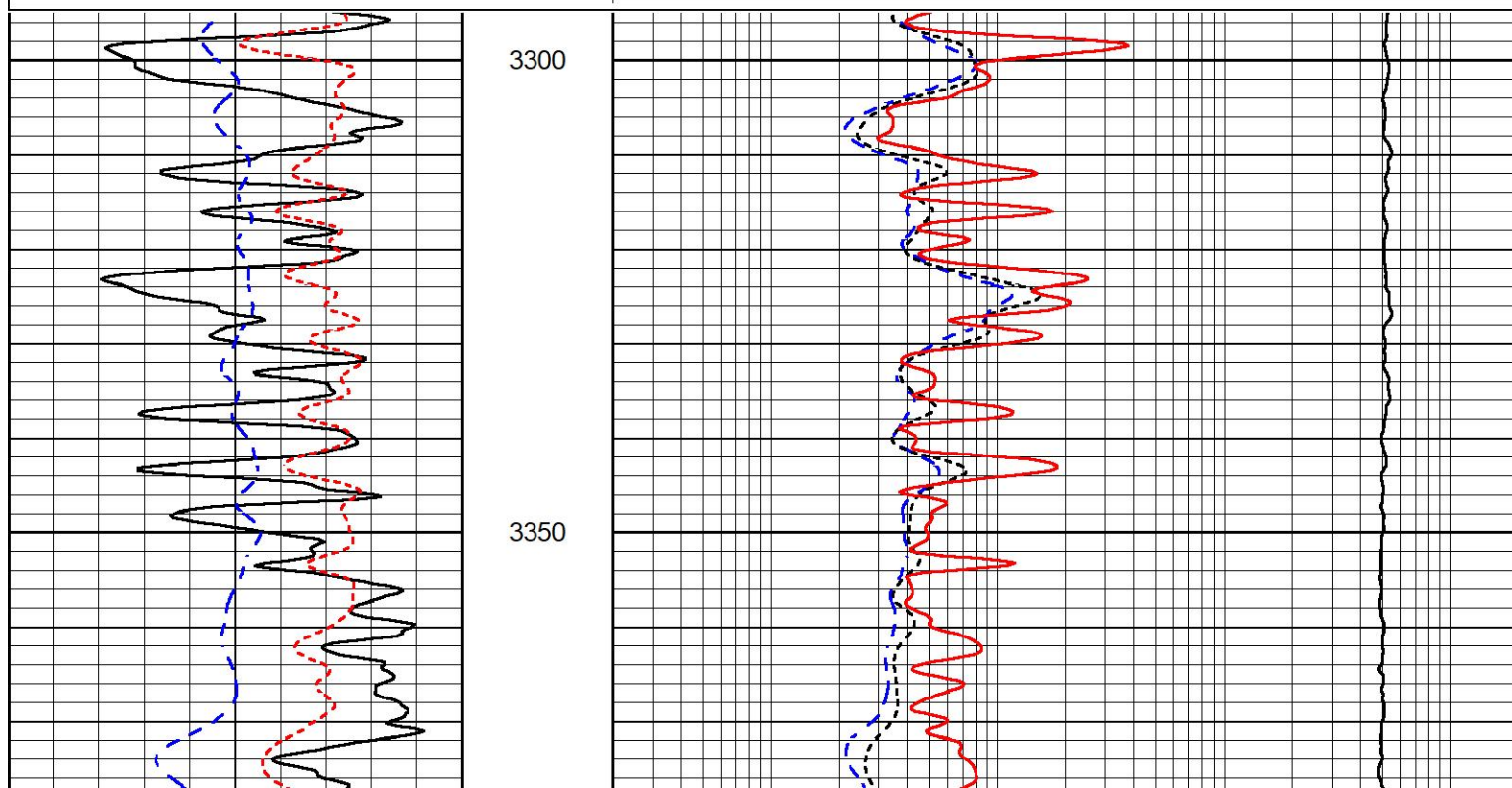
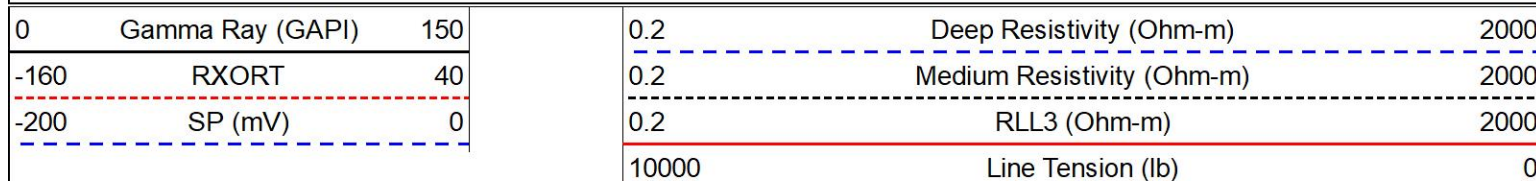


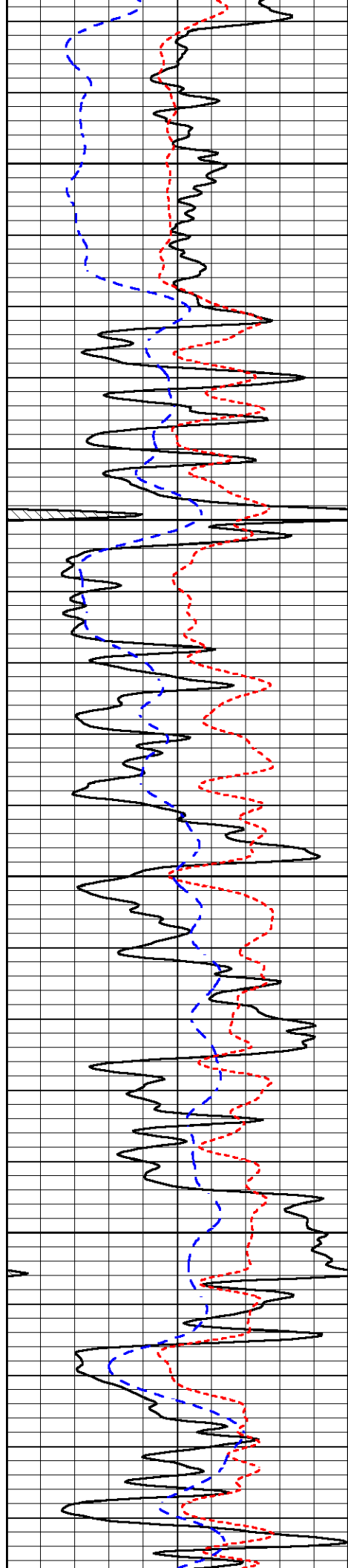
MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

Database File satchell_hobbs a #5-34.db
 Dataset Pathname StkMI/pass3.1
 Presentation Format _dil
 Dataset Creation Wed Sep 06 03:46:09 2023
 Charted by Depth in Feet scaled 1:240



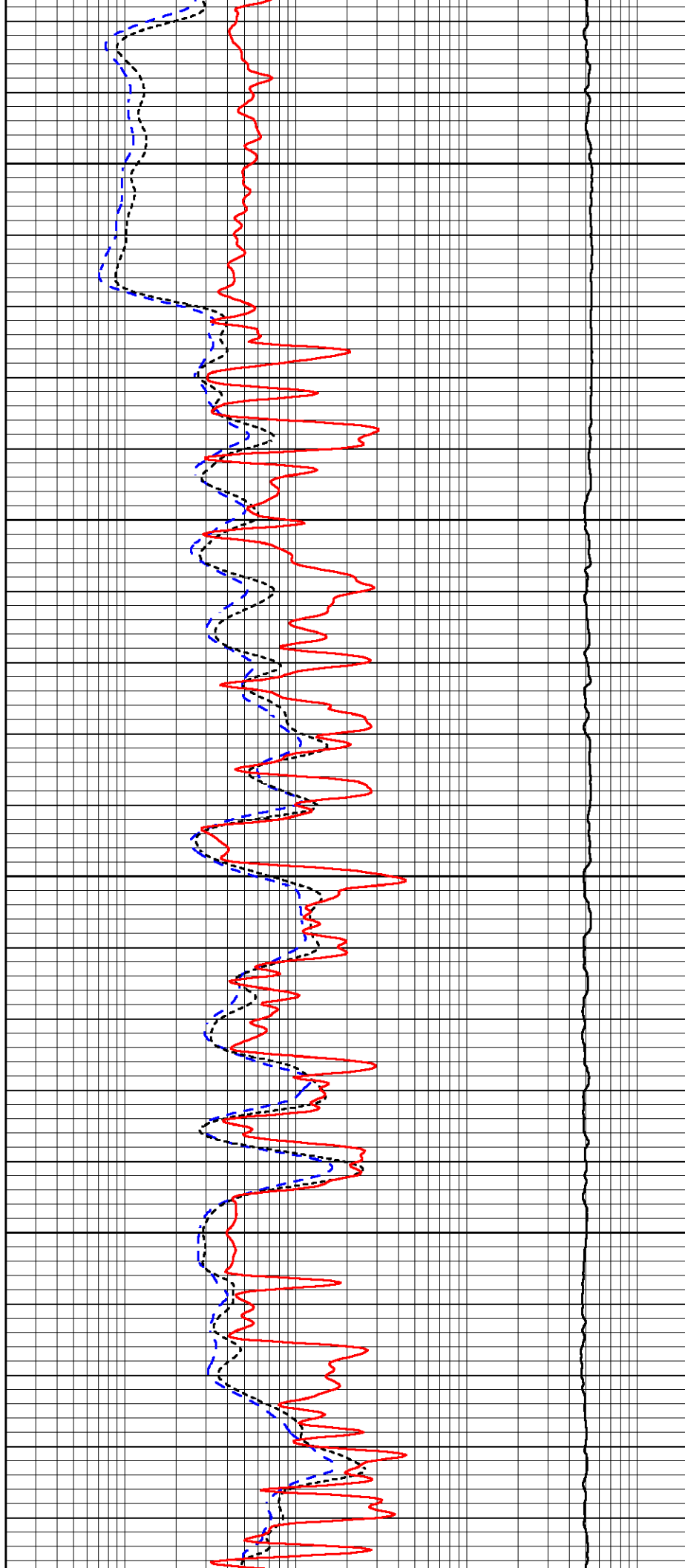


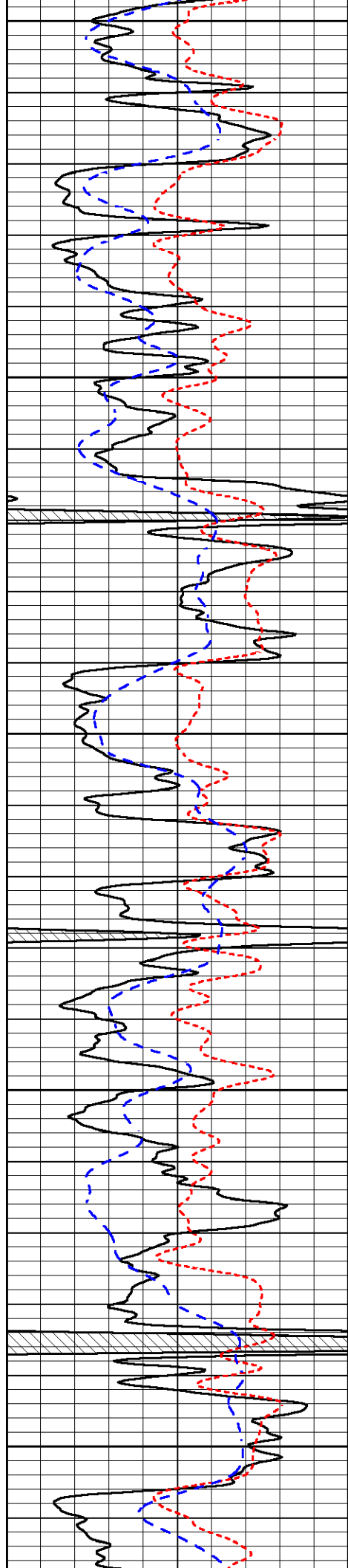
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3450

3500

3550





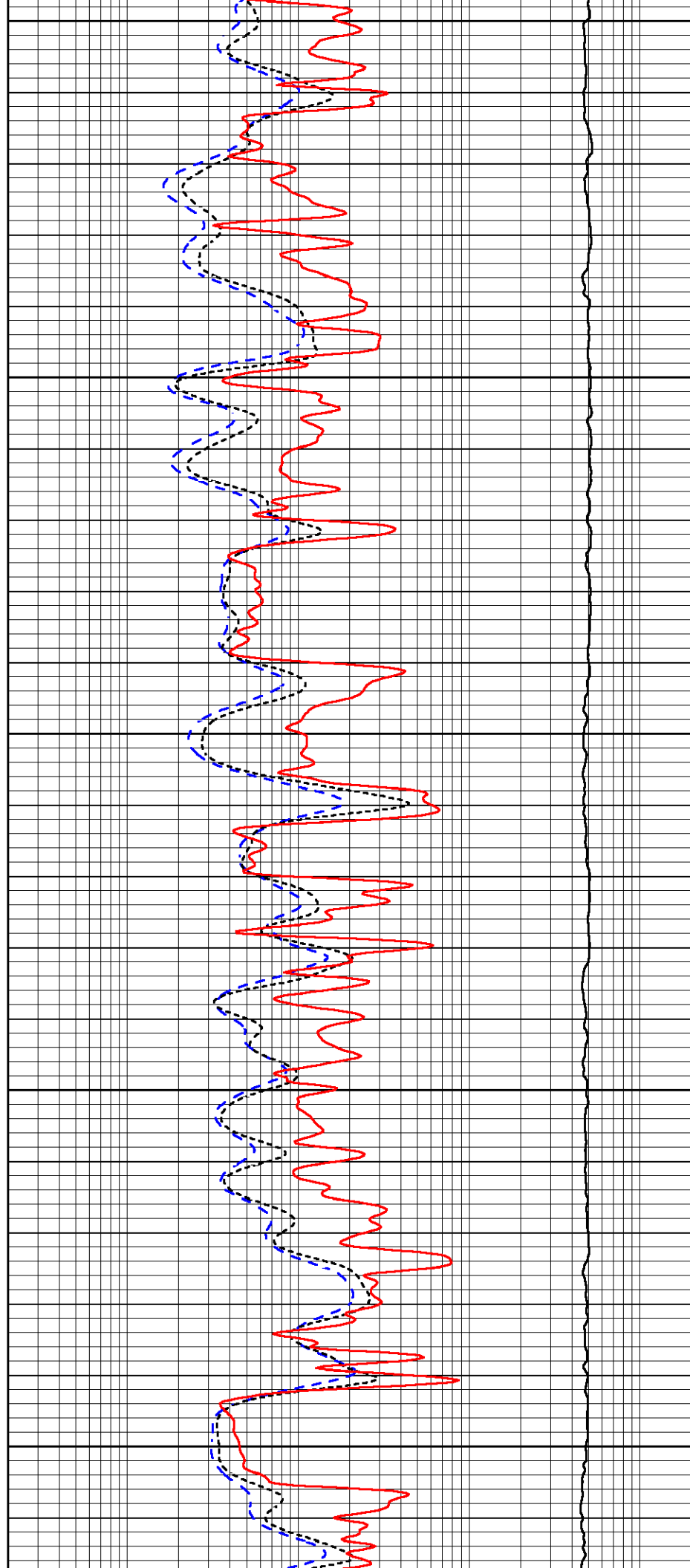
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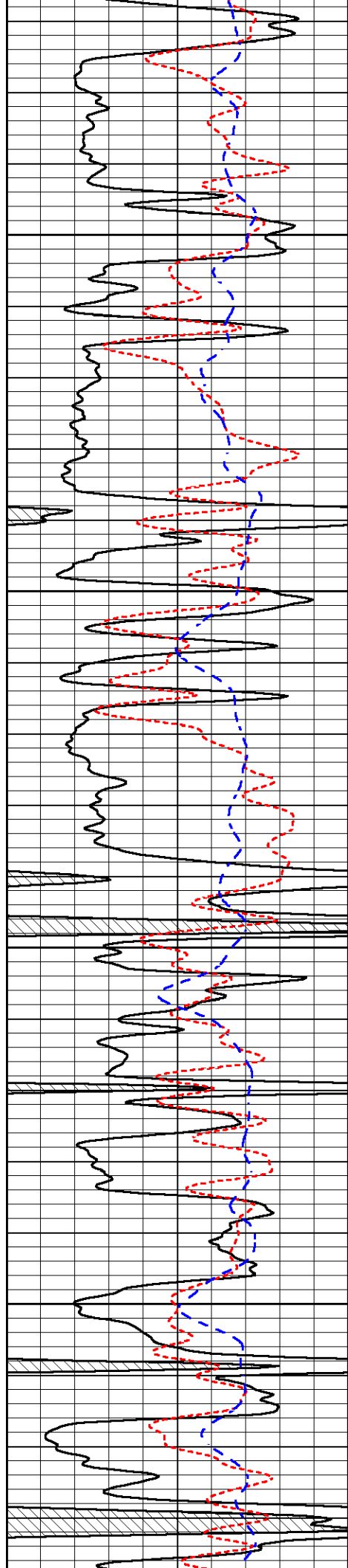
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3700

3750

3800



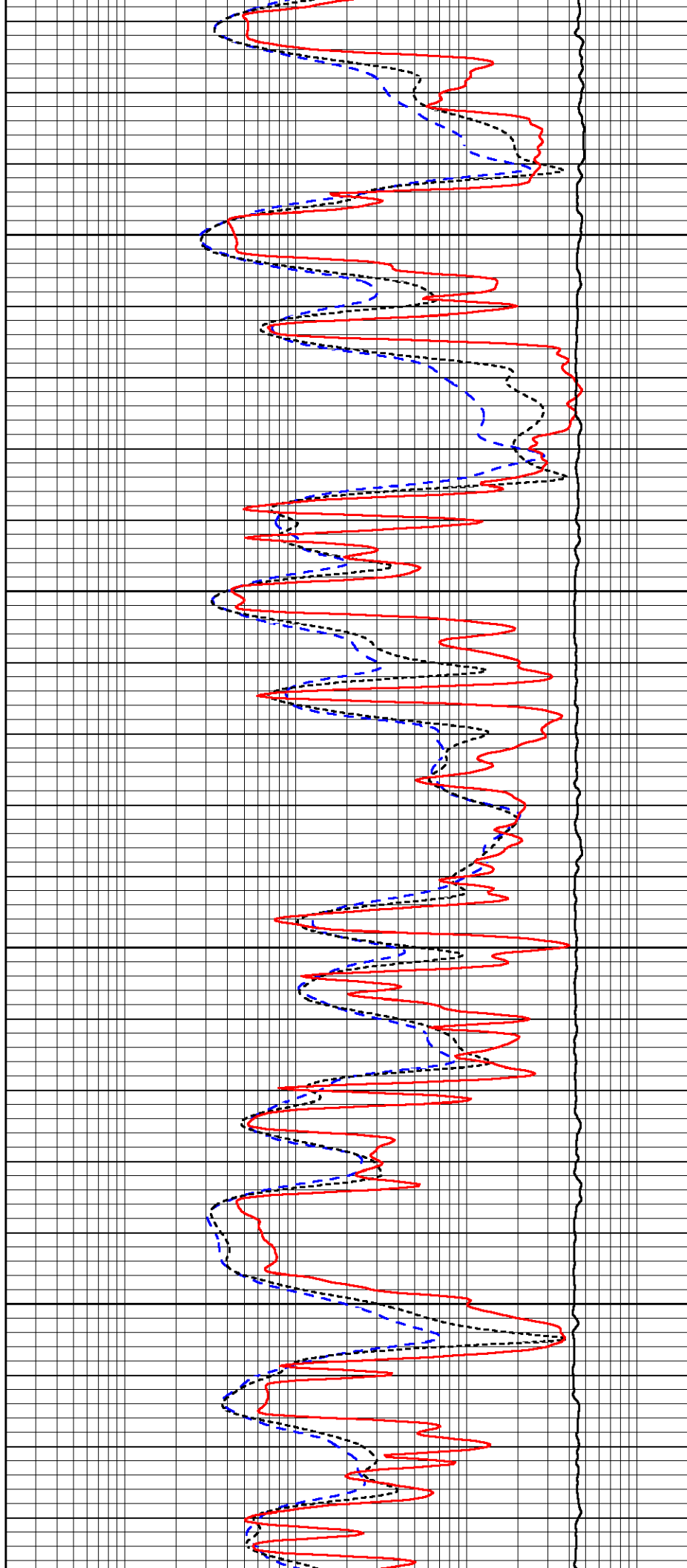


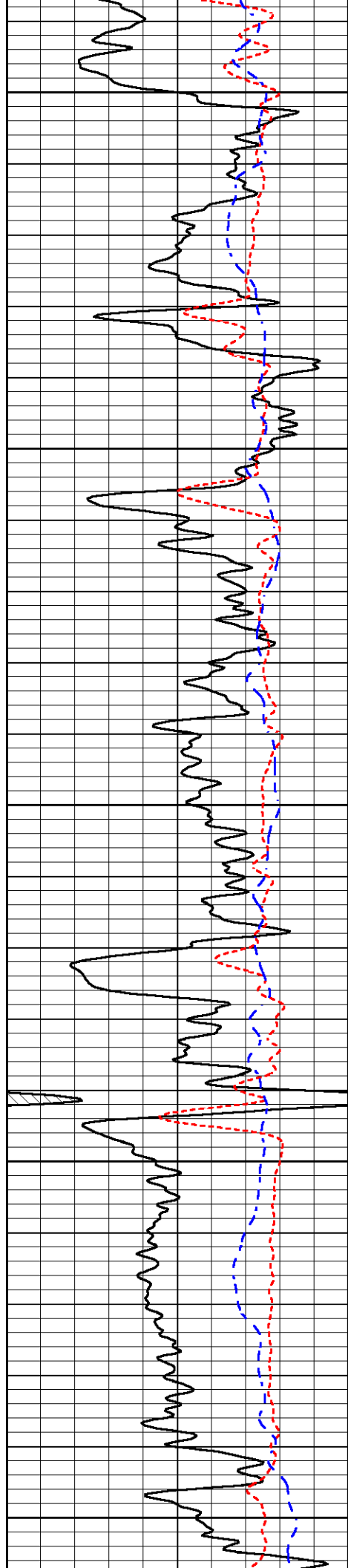
3850

3900

3950

4000





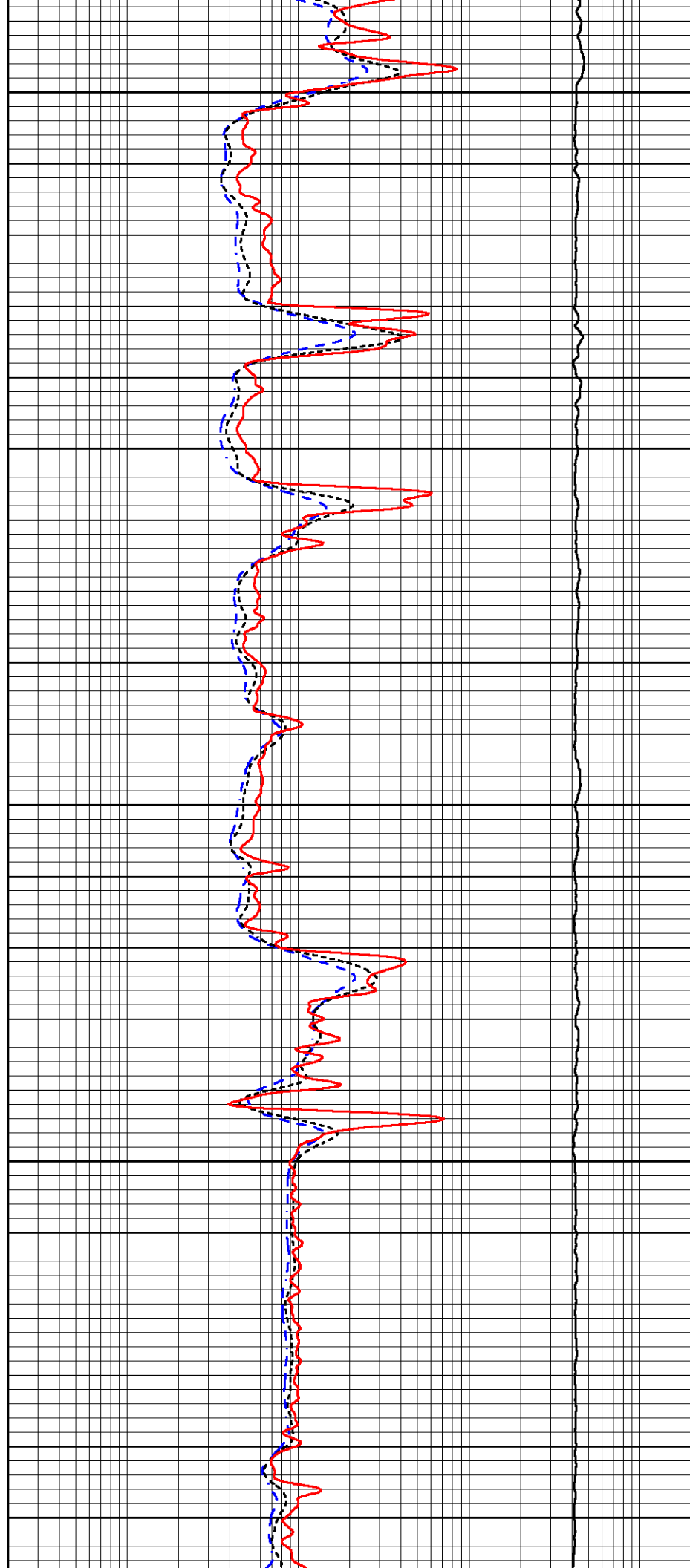
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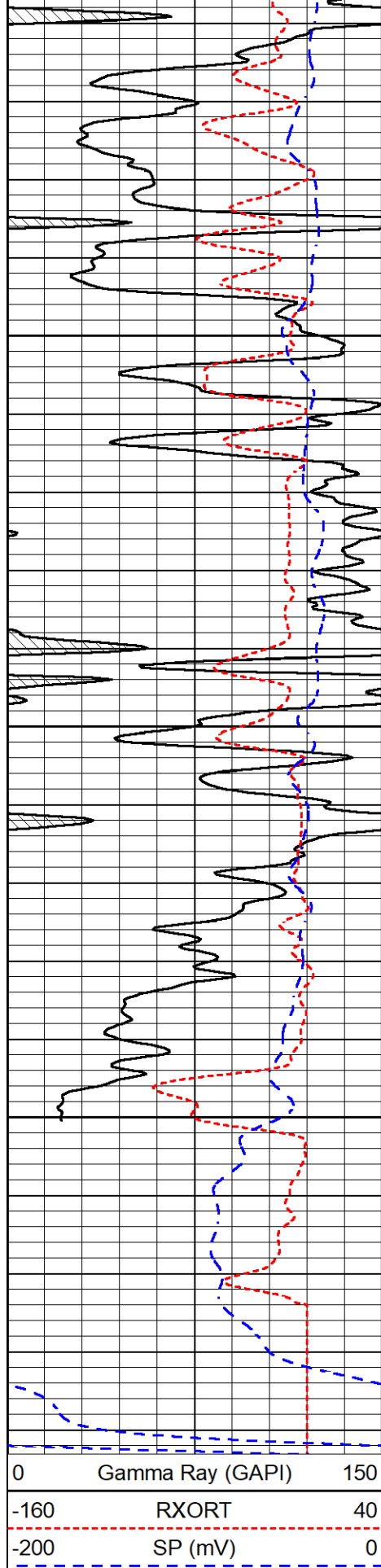
4100

4150

4200

4250

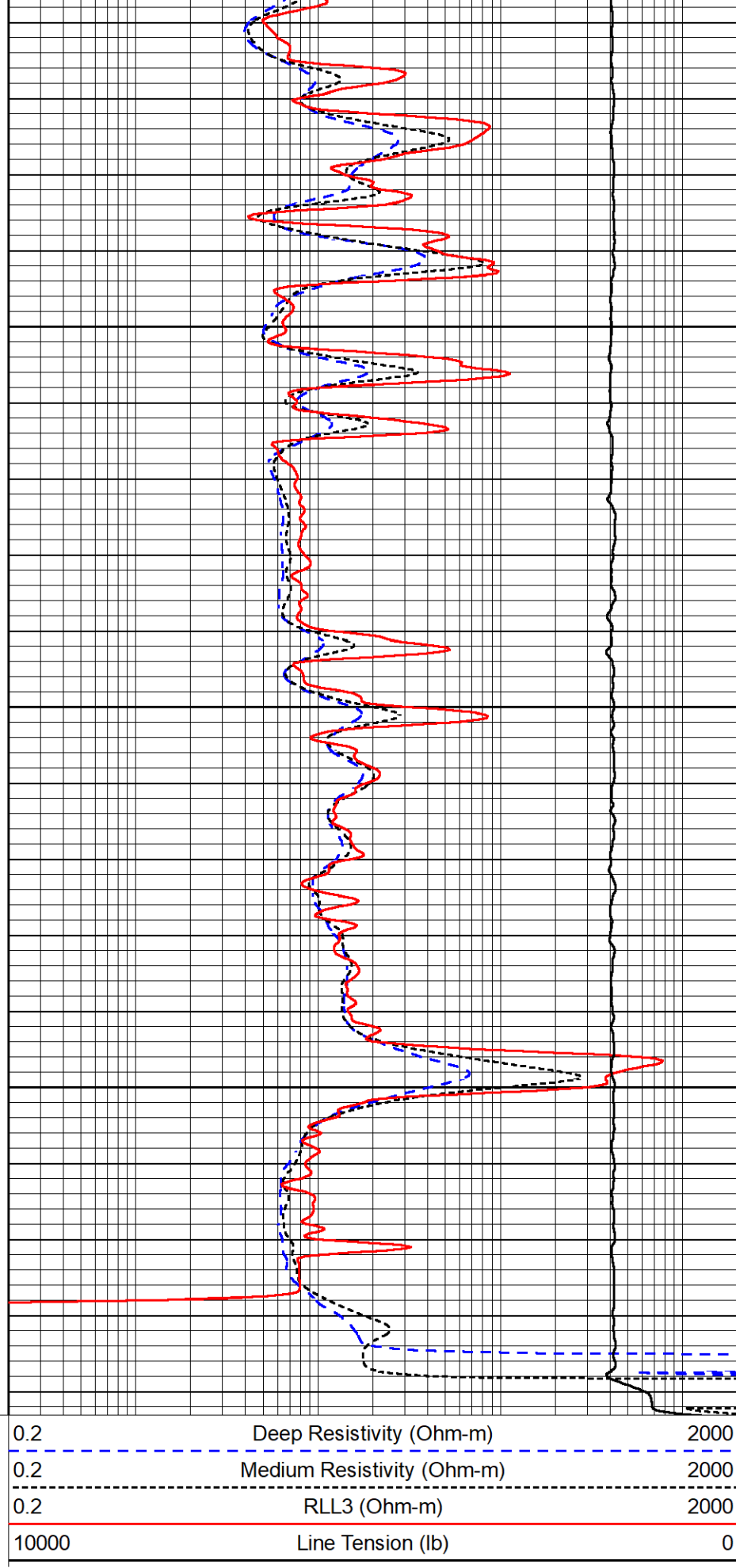




4300

4350

4400



REPEAT SECTION

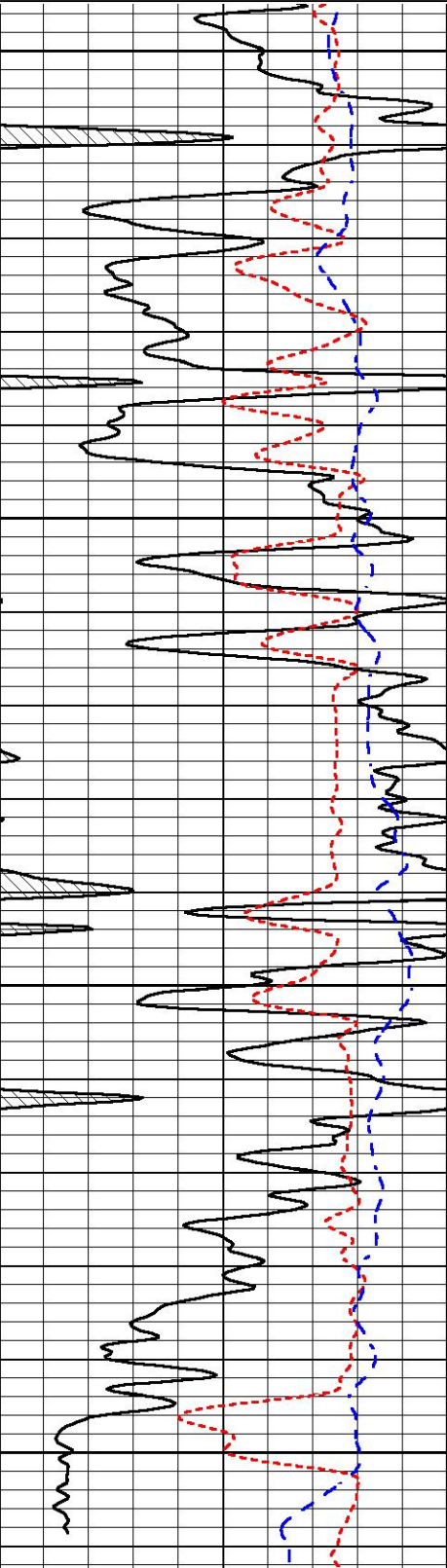


REPEAT PASS

Database File satchell_hobbs a #5-34.db
Dataset Pathname StkMI/pass2.1
Presentation Format _dil
Dataset Creation Wed Sep 06 03:08:21 2023
Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

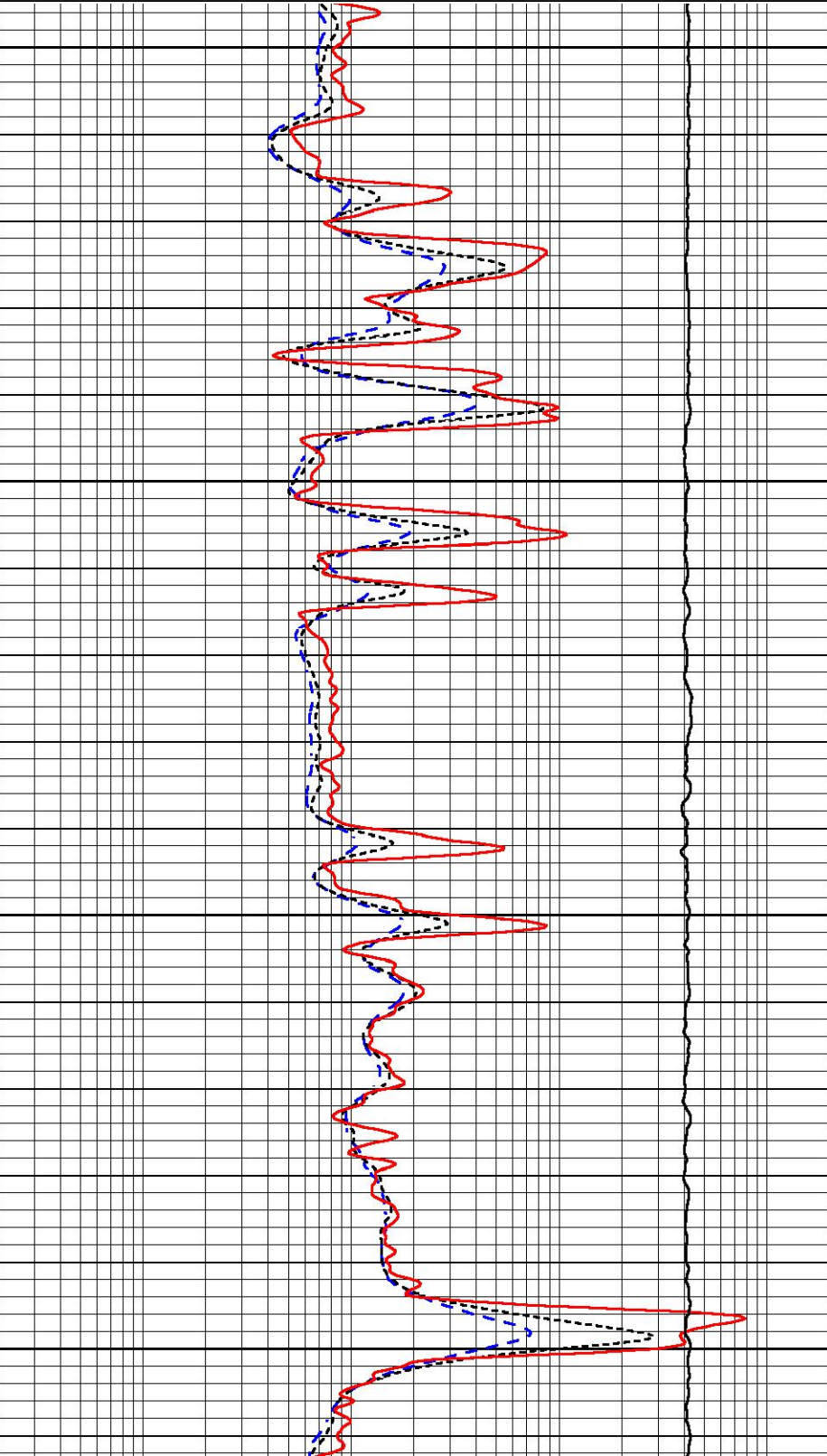


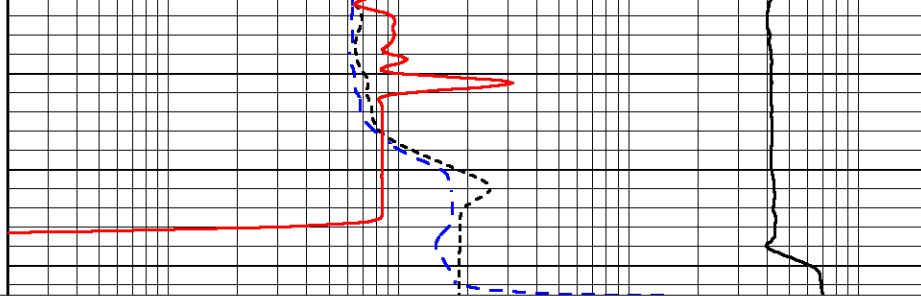
4250

4300

4350

4400





0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

Database File	satchell_hobbs a #5-34.db
Dataset Pathname	StkMI/pass3.1
Dataset Creation	Wed Sep 06 03:46:09 2023

Serial-Model: 507-M&W
Surface Cal Performed:

Readings

Serial-Model: 401-PSIML
Performed: Sat Sep 2 13:05:02 2023

Readings

Serial Number: 704-10
Tool Model: STEP LITHO
Performed: Fri Jun 23 15:26:01 2023

Aluminum:									
SS:	870	1018	2321	2004	37	71	43	2	cps
LS:	1057	1828	3315	1570	61	147	91	5	cps

Magnesium:

SS:	1459	1669	3829	2914	42	70	46	3	cps
LS:	4526	7550	13047	4982	98	135	93	13	cps
Aluminum+Iron:									
SS:	553	719	1939	1750	37	72	45	2	cps
LS:	613	1297	2812	1404	60	146	96	4	cps
		Density			PE				
		Actual	Calibrated		Actual	Calibrated	Quality		
Background:									
SS:							0.245		
LS:							0.205		
Aluminum:									
SS:		2.6000	2.6000	g/cc			0.240		
LS:		2.6000	2.6000	g/cc			0.236		
Magnesium:									
SS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.210		
LS:		1.6800	1.6800	g/cc	2.5700	2.5700	0.184		
Aluminum+Iron:									
SS:						6.1800	0.228		
LS:						6.1800	0.206		
Before Survey									
Performed:		Wed Feb 9	13:15:42	2022					
SS:	0	0	0	0	0	0	0	0	cps
LS:	1370	1580	3705	3037	48	80	50	4	cps
After Survey									
Performed:		Wed Feb 9	13:16:02	2022					
SS:	0	0	0	0	0	0	0	0	cps
LS:	1400	1600	3800	3100	60	100	70	6	cps
Caliper:			Reference:		Reading:				
Small Ring:			6.0	in	0.2				
Large Ring:			15.0	in	0.8				
Gain:			16.161						
Offset:			1.070						
Compensated Neutron Calibration Report									
			Serial Number:		207				
			Tool Model:		M&W				
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		
PRE-SURVEY VERIFICATION									
	Detector		Readings		Measured		Target		
1)	Short Space		cps						
	Long Space		cps		pu		pu		
2)	Short Space		cps						
	Long Space		cps		pu				
3)	Short Space		cps						
	Long Space		cps		pu				
POST-SURVEY VERIFICATION									
	Detector		Readings		Measured		Target		
1)	Short Space		cps						

	Long Space	cps	pu	pu
2)	Short Space	cps		
	Long Space	cps	pu	pu
3)	Short Space	cps		
	Long Space	cps	pu	pu

Gamma Ray Calibration Report				
Serial Number:		106		
Tool Model:		M&W		
Performed:		Tue Aug 22 07:35:27 2023		
Calibrator Value:		500.0	GAPI	
Background Reading:		24.0	cps	
Calibrator Reading:		637.0	cps	
Sensitivity:		0.6000	GAPI/cps	

	Company	Satchell Creek Petroleum LLC		
	Well	Hobbs A #5-34		
	Field			
	County	Graham		
	State	Kansas		