



MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Talon Group LLC		Company Talon Group LLC	
Well	Hineman R 1-20	Well	Hineman R 1-20
Field	Hineman	Field	Hineman
County	Lane	County	Lane
State	Kansas	State	Kansas
Location: API #: 15-101-22656-00-00		Other Services	
N2 NE SE SE 1170' FSL & 330' FEL SEC 20 TWP 19S RGE 28W		CNL/CDL MEL	
Permanent Datum	Ground Level	Elevation	2792
Log Measured From	Kelly Bushing	K.B.	2802
Drilling Measured From	Kelly Bushing	D.F.	
		G.L.	2792
Date	9/10/2021		
Run Number	One		
Depth Driller	4651		
Depth Logger	4653		
Bottom Logged Interval	4652		
Top Log Interval	250		
Casing Driller	8.625 @ 271		
Casing Logger	269		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	3300		
Density / Viscosity	9.2 60		
pH / Fluid Loss	10.5 8.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.8 @ 74		
Rmf @ Meas. Temp	0.6 @ 74		
Rmc @ Meas. Temp	1.08 @ 74		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.48 @ 123		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	123 Deg F		
Equipment Number	P-24		
Location	HAYS		
Recorded By	T. Martin		
Witnessed By	Vern Schrag		

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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.

Dighton, KS, S to Rd 90,
2 E, 7/8 S, W into

Log Measured From: Kelly Bushing 10 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: Vern Schrag	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	
Operator:		Secondary Witness:	

Log Variables

DatabaseC:\ProgramData\Warrior\Data\talon_hineman r #1-20.db
Dataset field/well/Stack/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	4.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	0	mmho/m	mmho/m	mV	degF	Off	ft
		0	0	210	70		4653

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

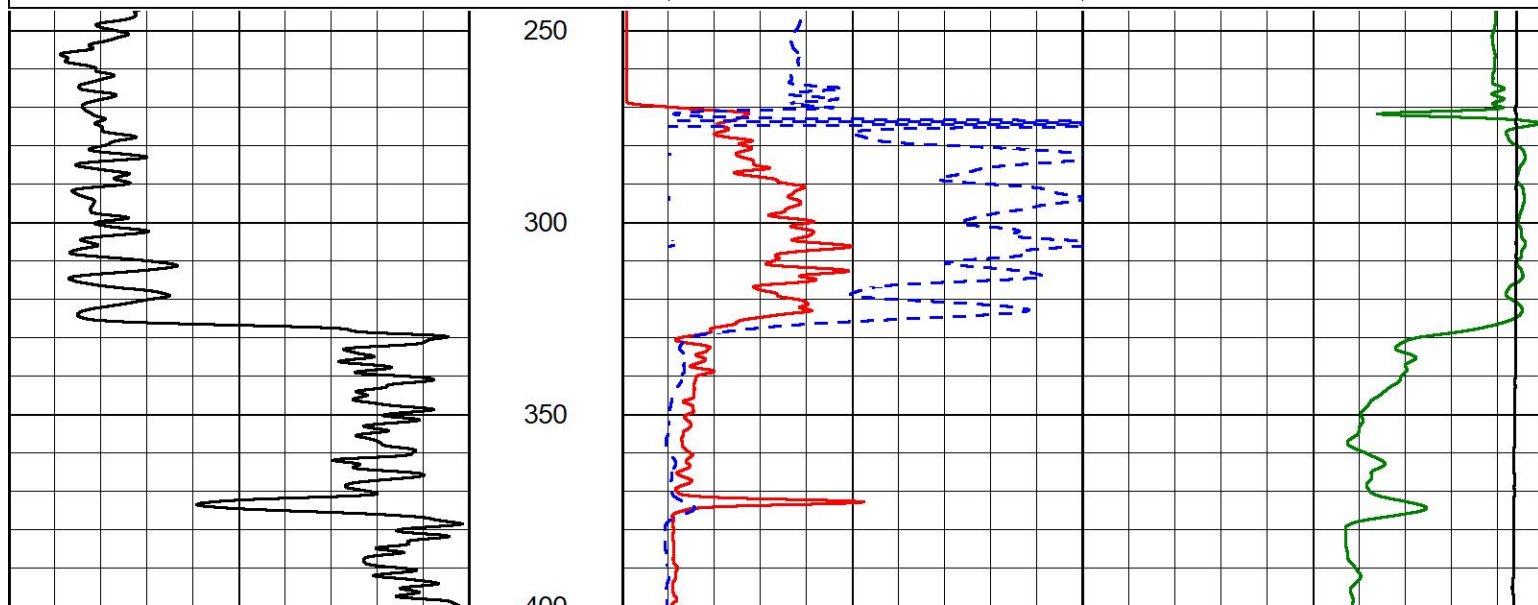


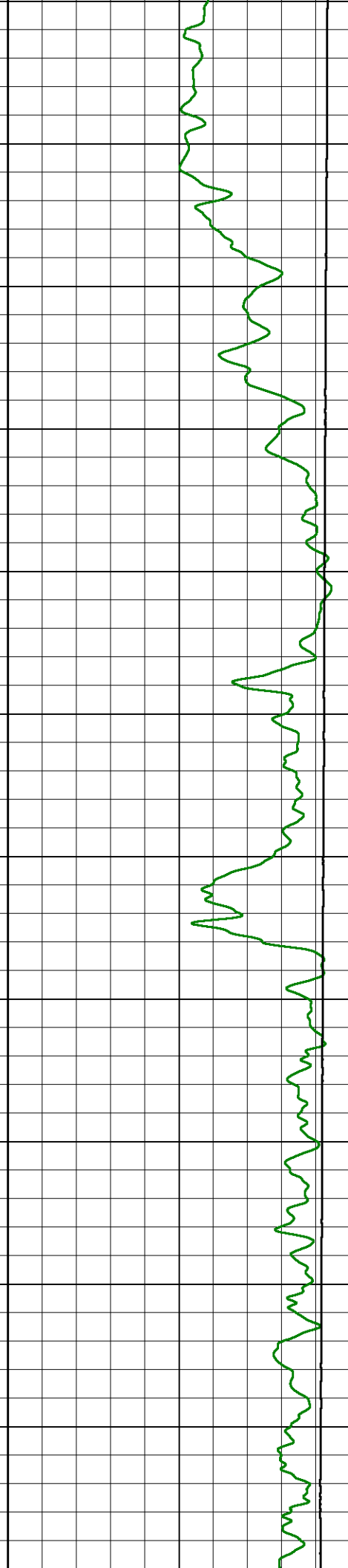
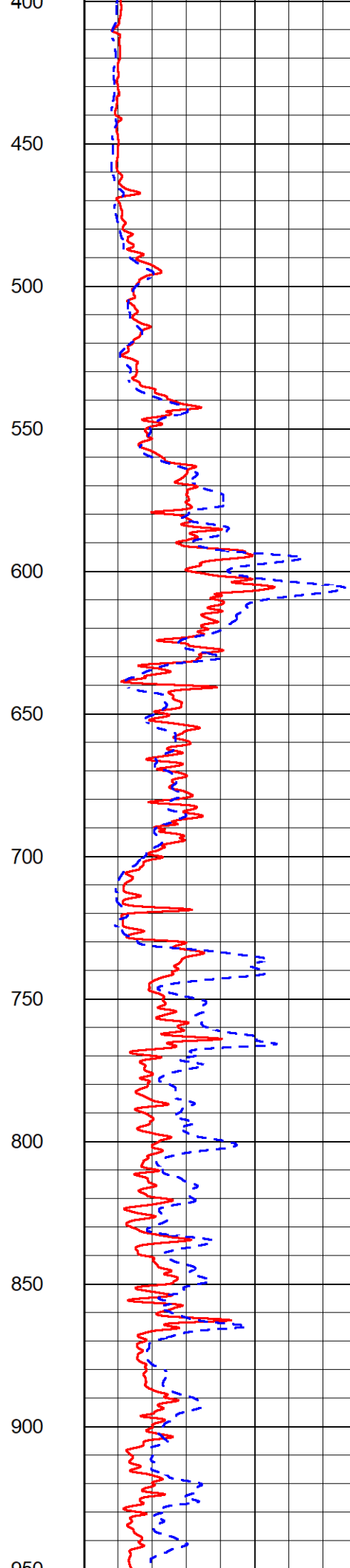
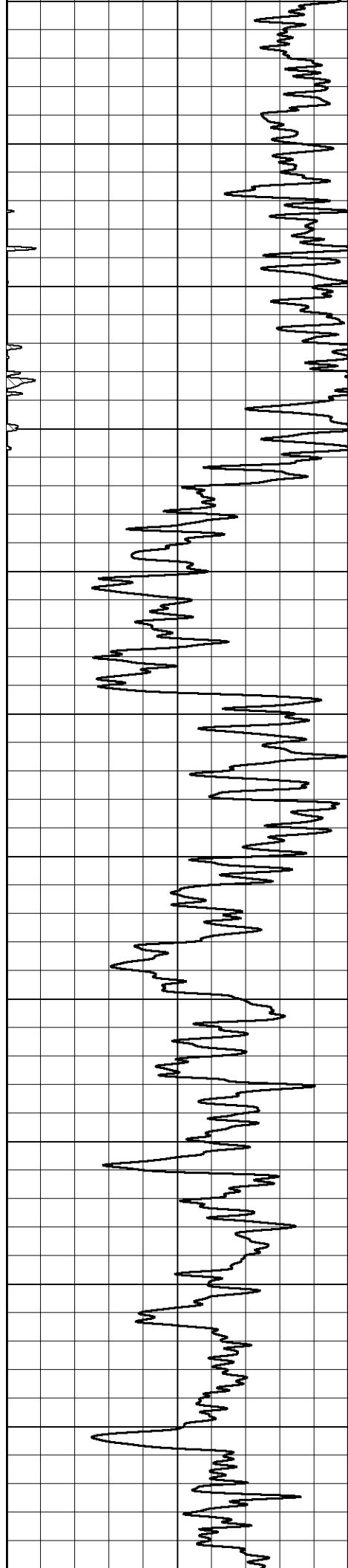
2" SCALE RESISTIVITY

MAIN PASS

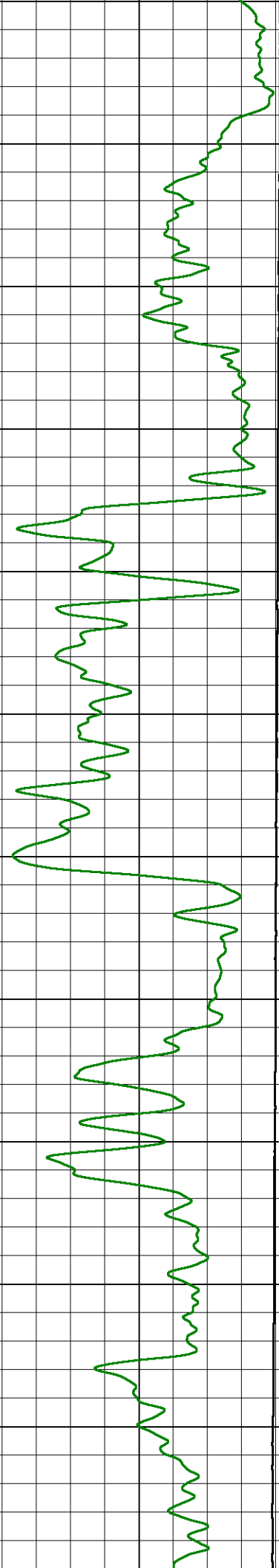
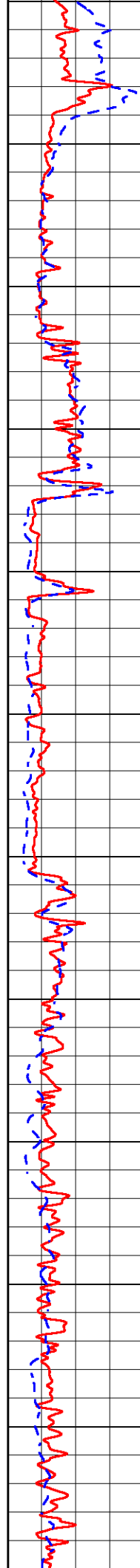
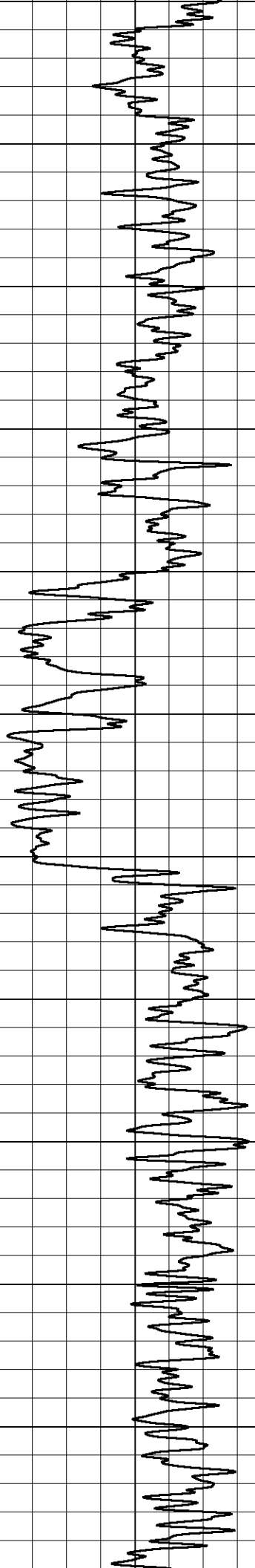
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Dataset Creation Fri Sep 10 07:33:04 2021
Charted by Depth in Feet scaled 1:600

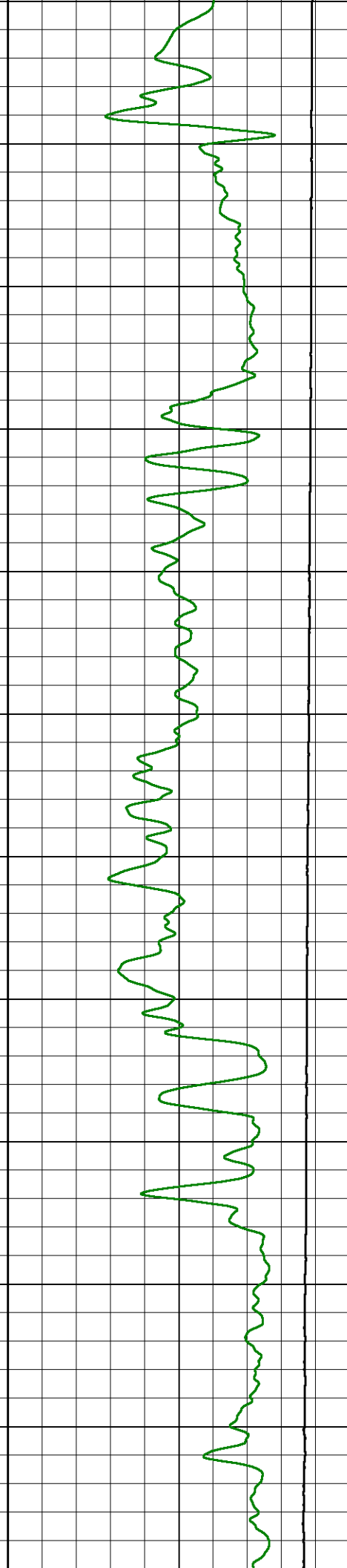
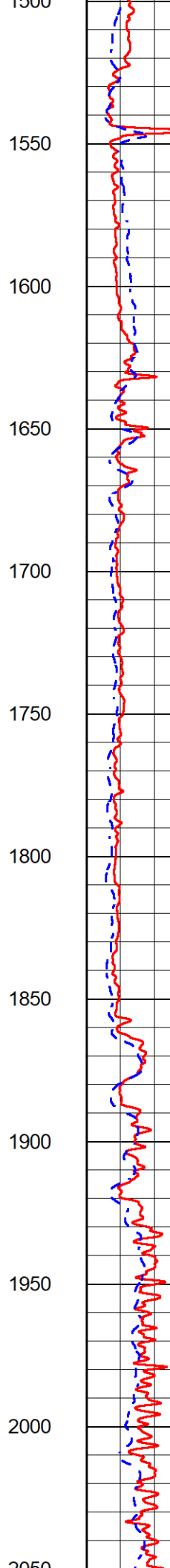
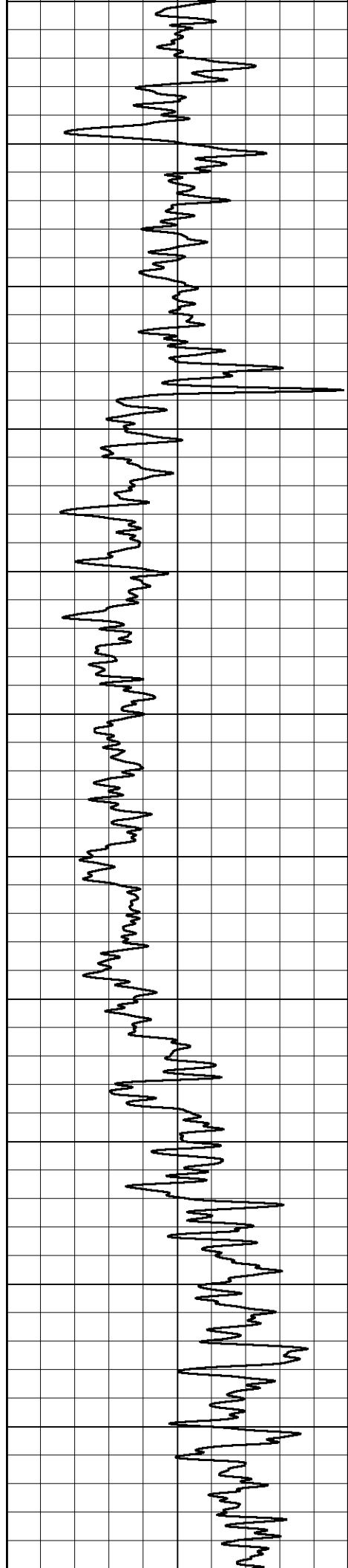
0	(GAPI)	150	1000	CONDUCTIVITY (mmho/m)	0
			15000	Line Tension (lb)	0
			0	RLL3 (Ohm-m)	50
			0	RILD (Ohm-m)	50
			50	RLL3 (Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200

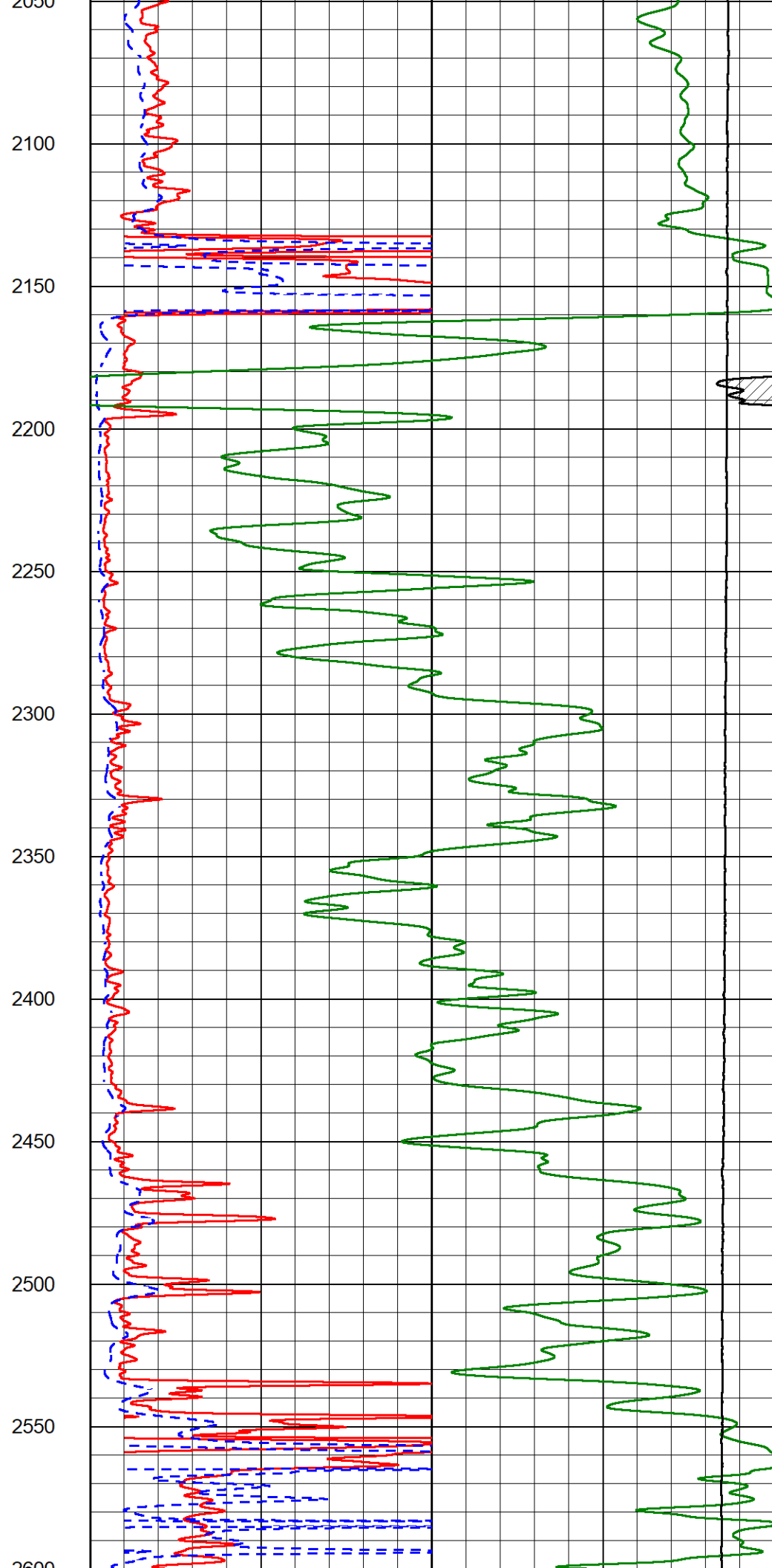
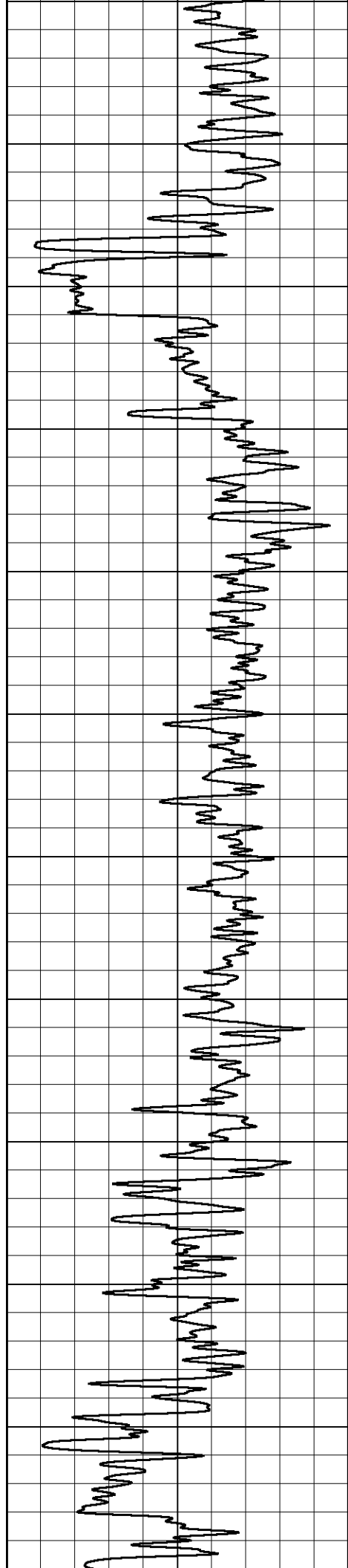


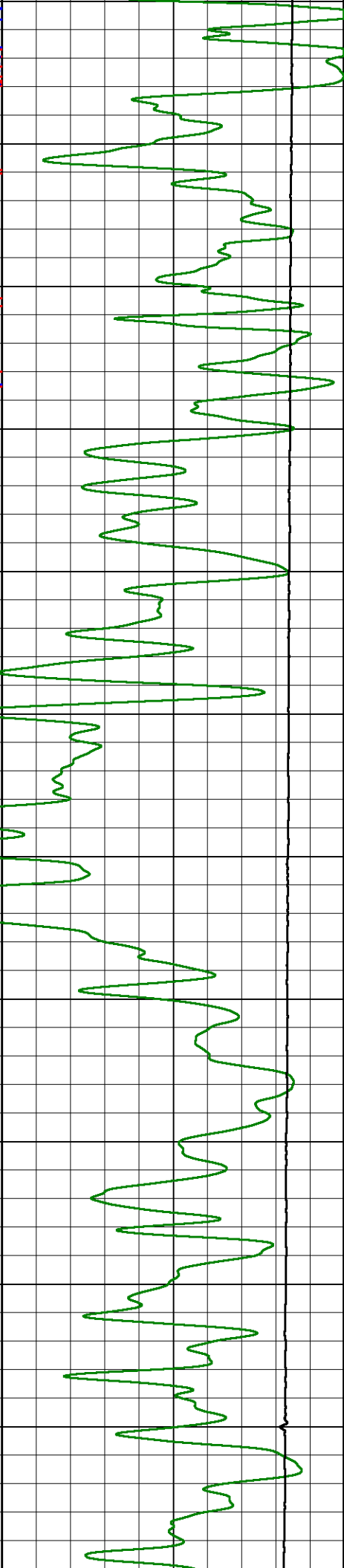
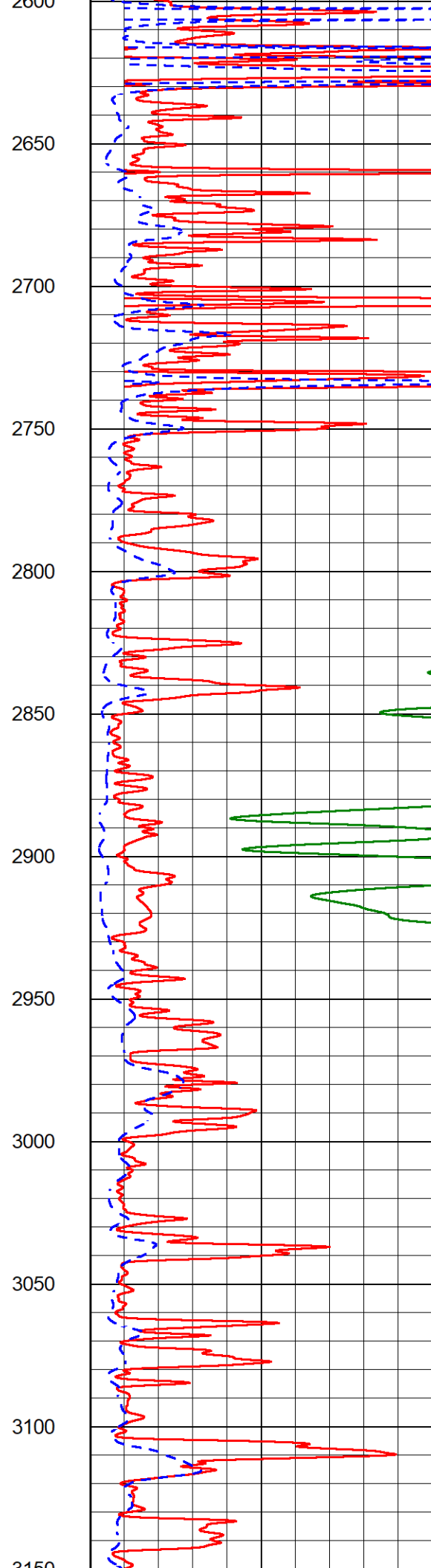
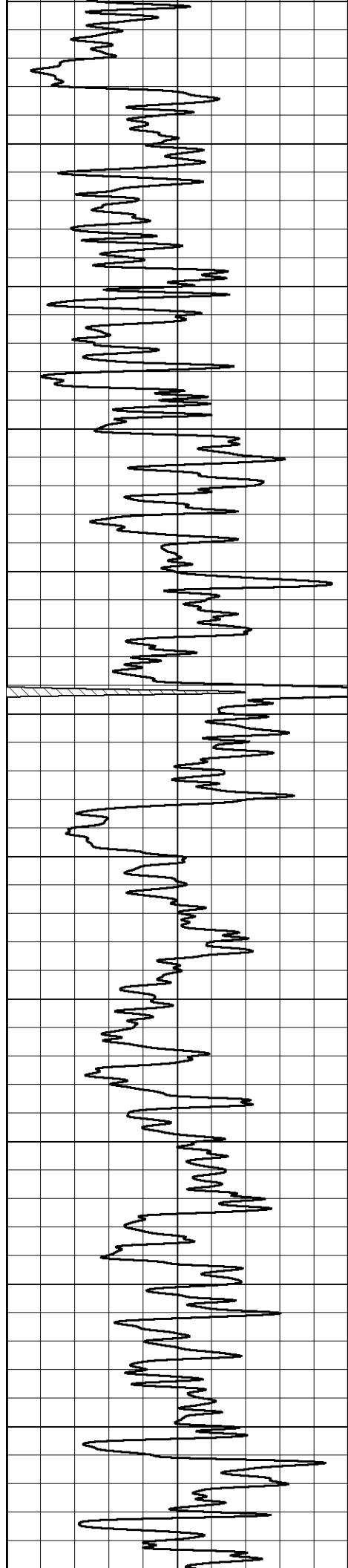


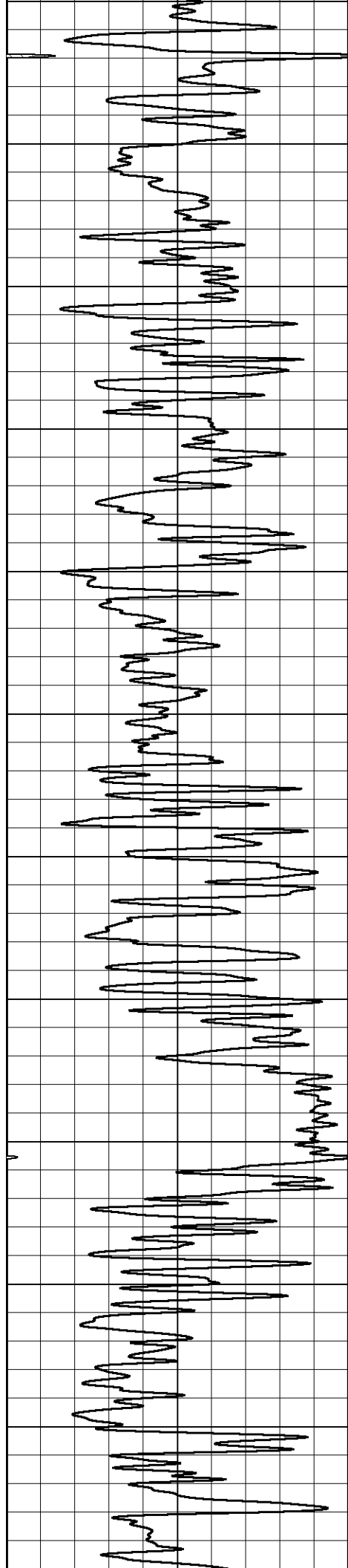
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1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500



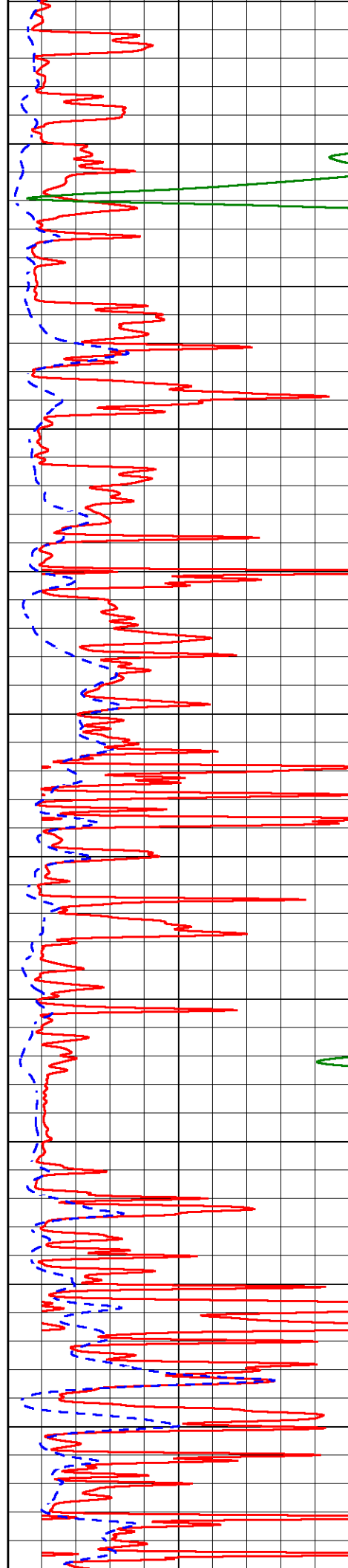


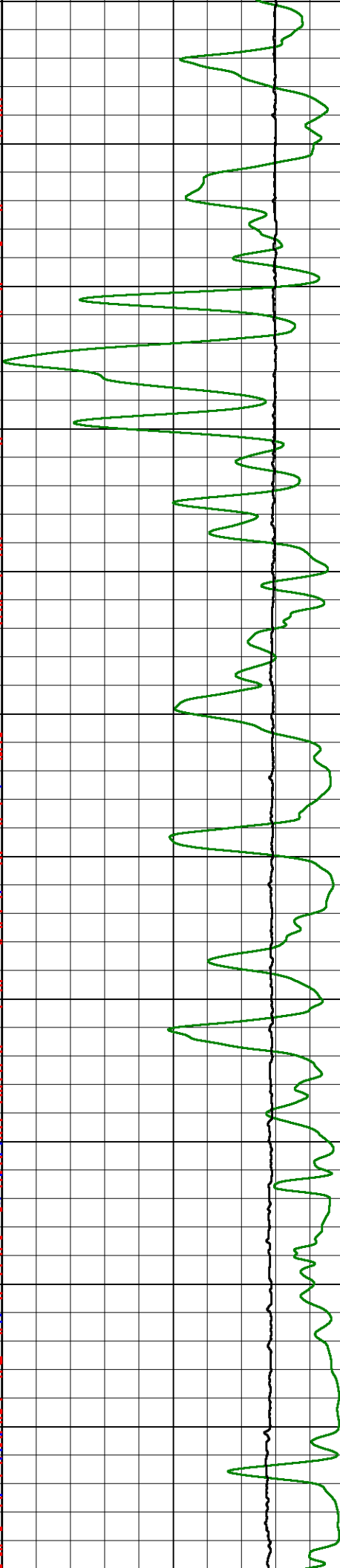
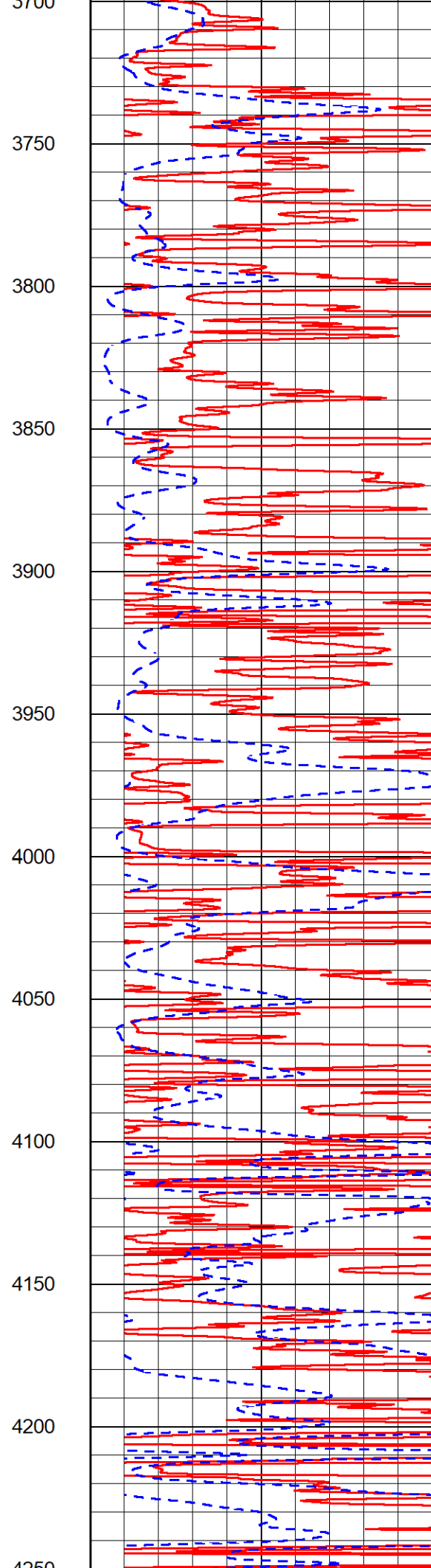
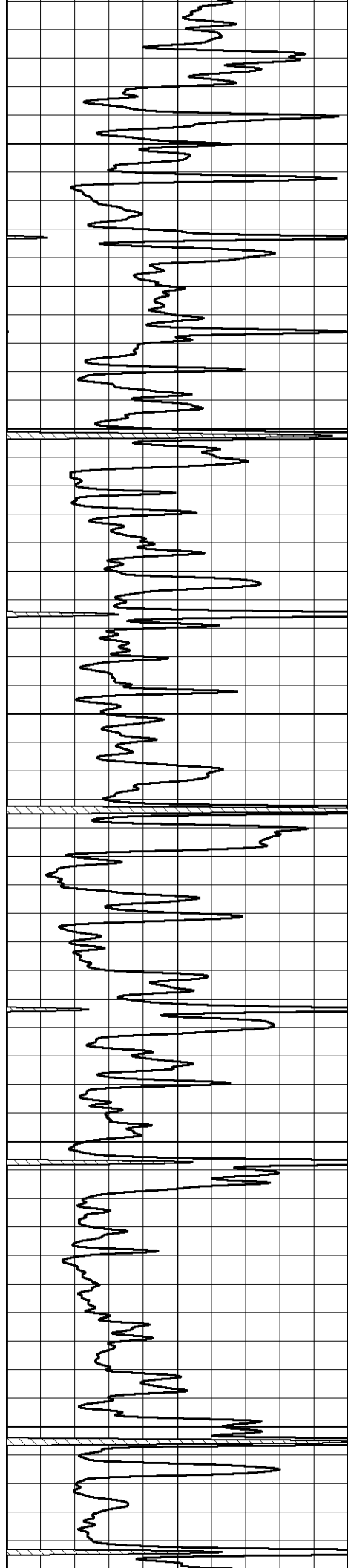


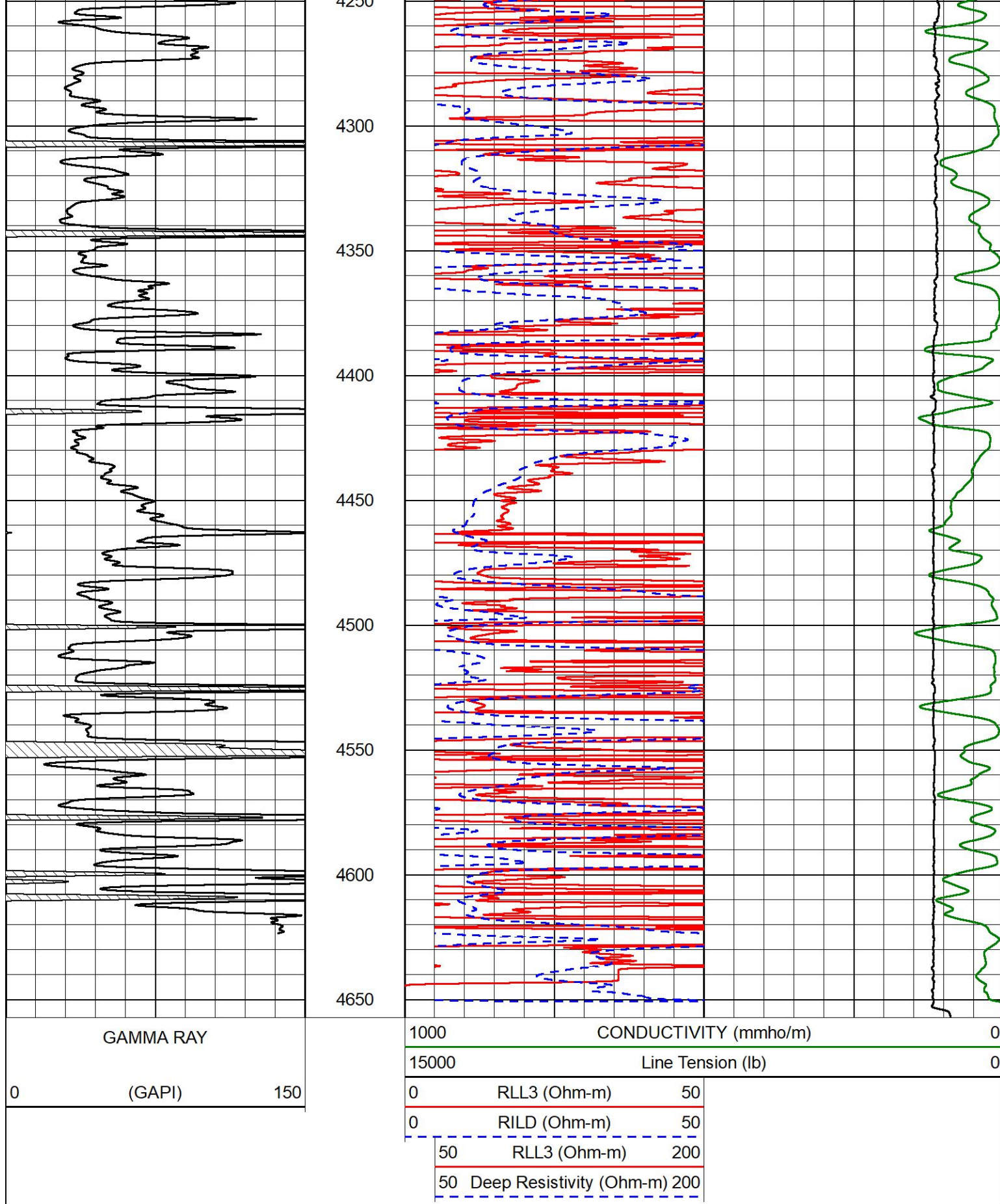




3150
3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700







MIDWEST WIRELINE

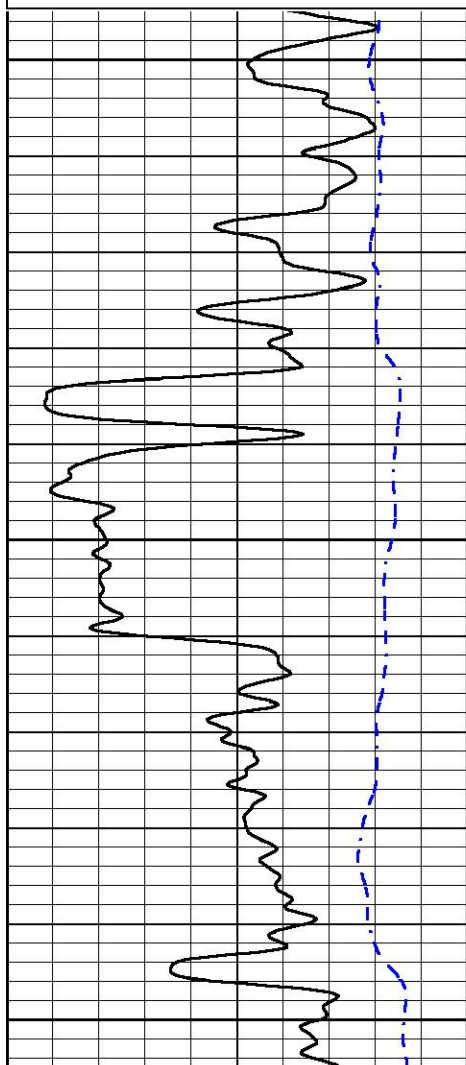
ANHYDRITE SECTION

MAIN PASS

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 Charted by Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 150
 -200 SP (mV) 0

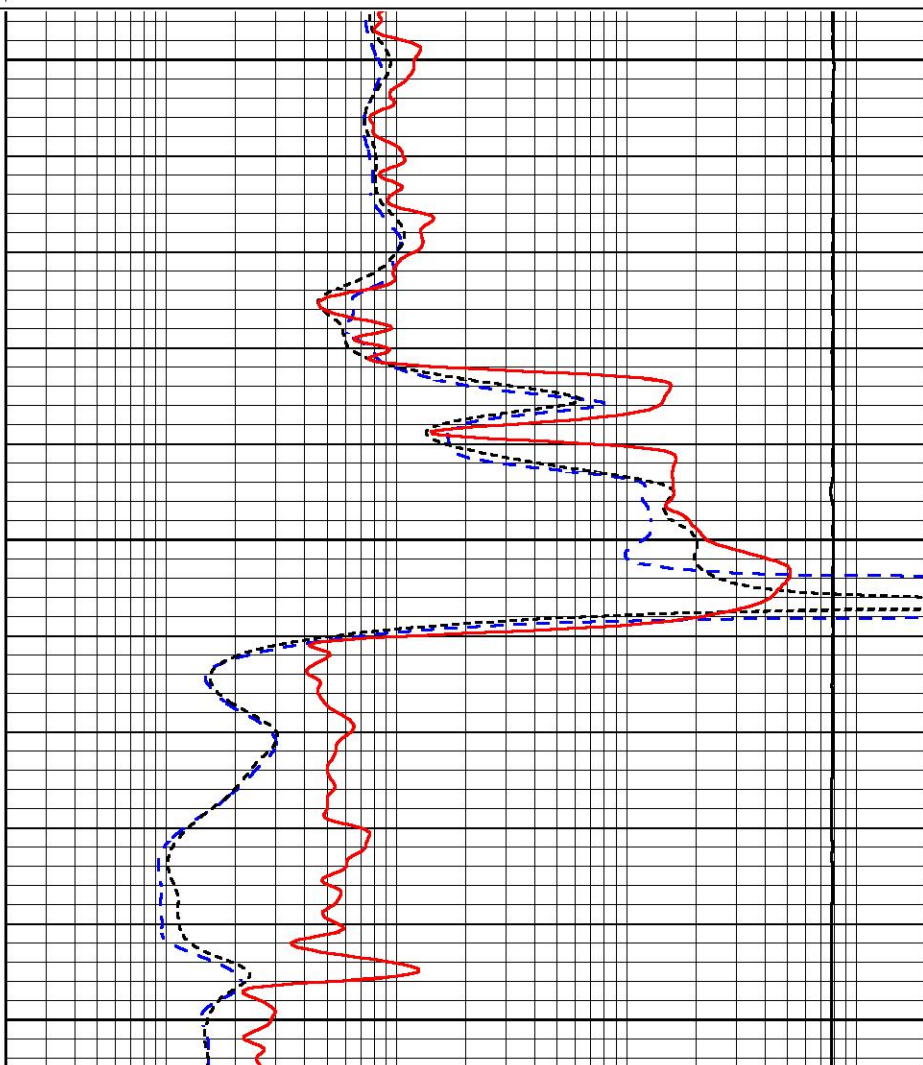
0.2 DEEP RESISTIVITY (Ohm-m) 2000
 0.2 MEDIUM RESISTIVITY (Ohm-m) 2000
 0.2 RLL3 (Ohm-m) 2000
 10000 LINE TENSION (lb) 0



2100

2150

2200



0 GAMMA RAY (GAPI) 150
 -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



MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

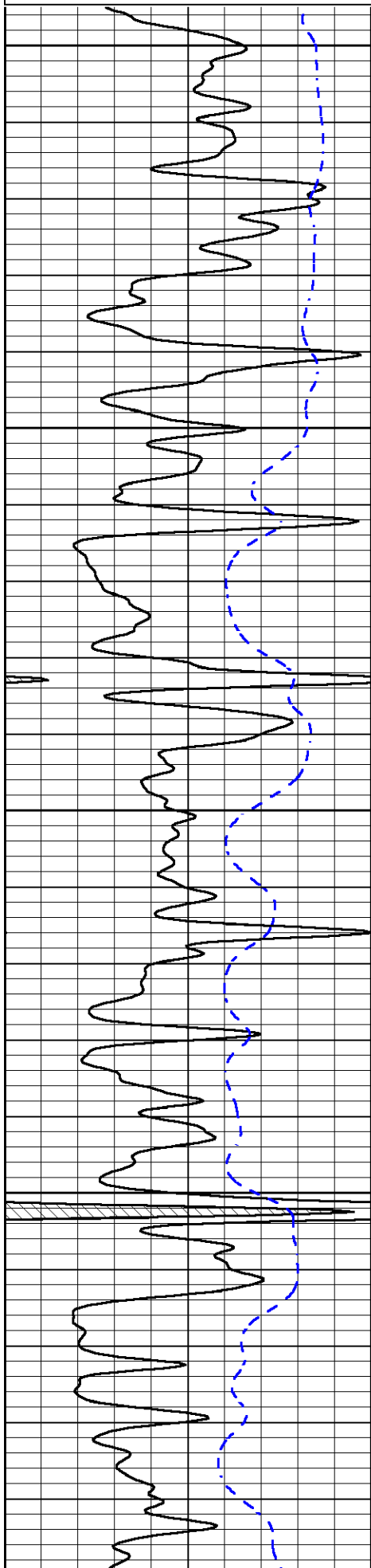
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 Charted by Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 150

0.2 DEEP RESISTIVITY (Ohm-m) 2000

-200 SP (mV) 0

0.2	MEDIUM RESISTIVITY (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	LINE TENSION (lb)	0

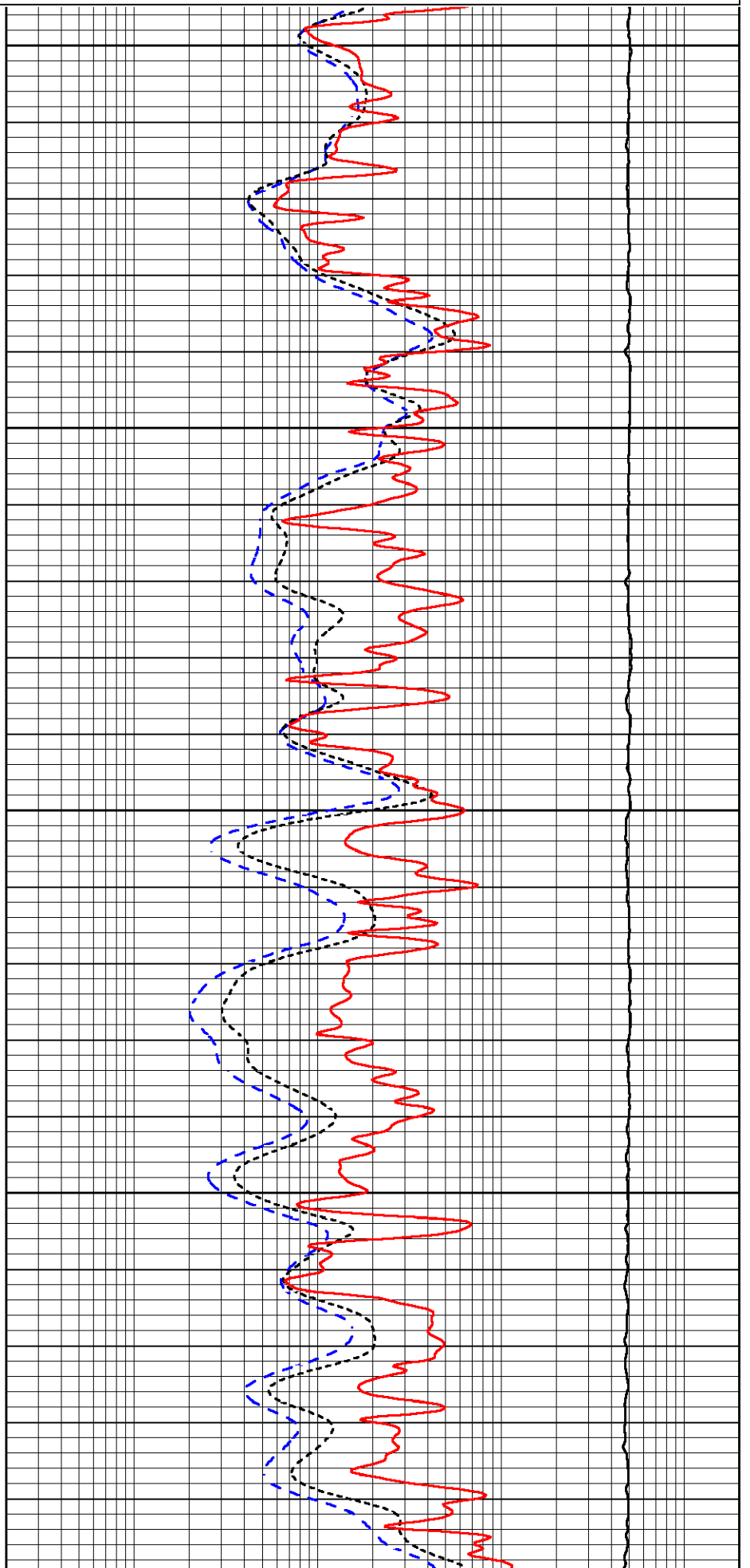


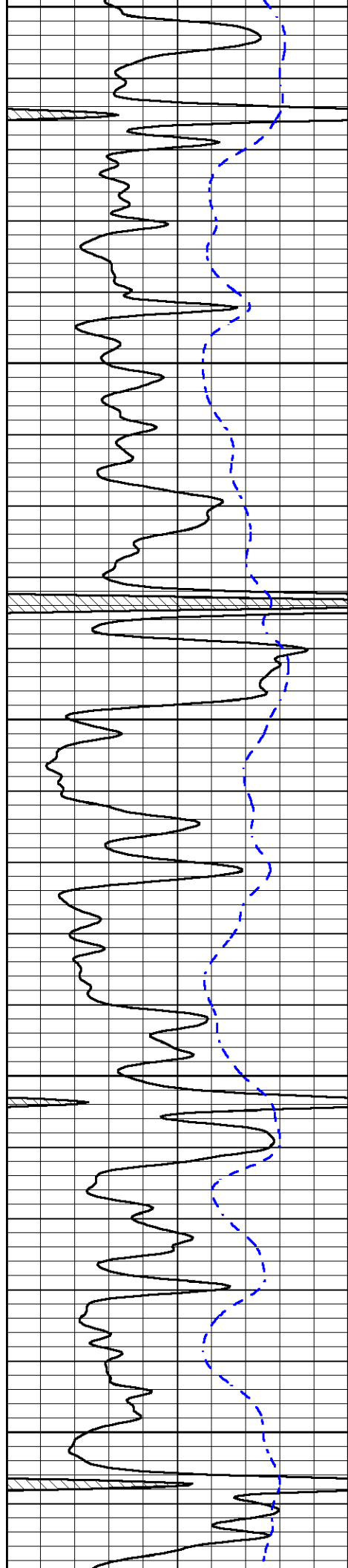
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3750

3800

3850





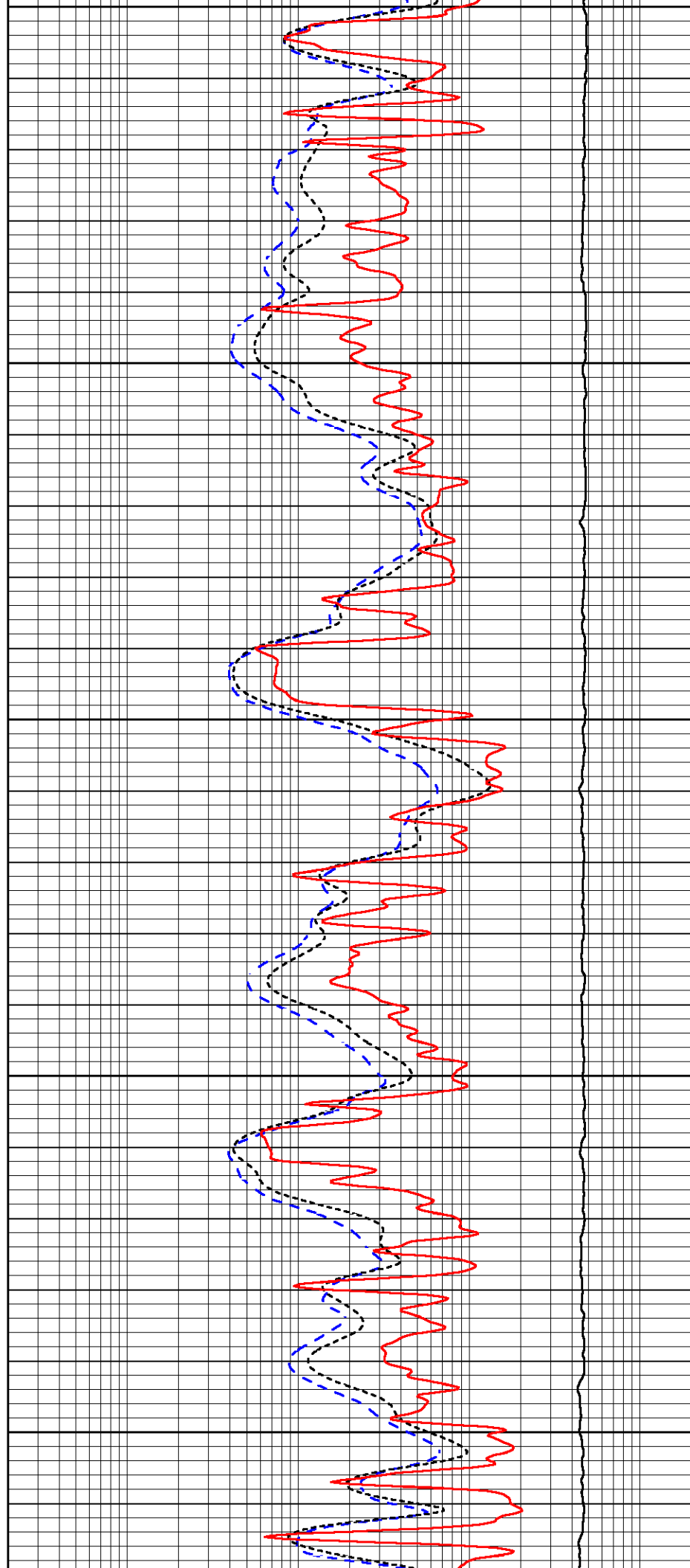
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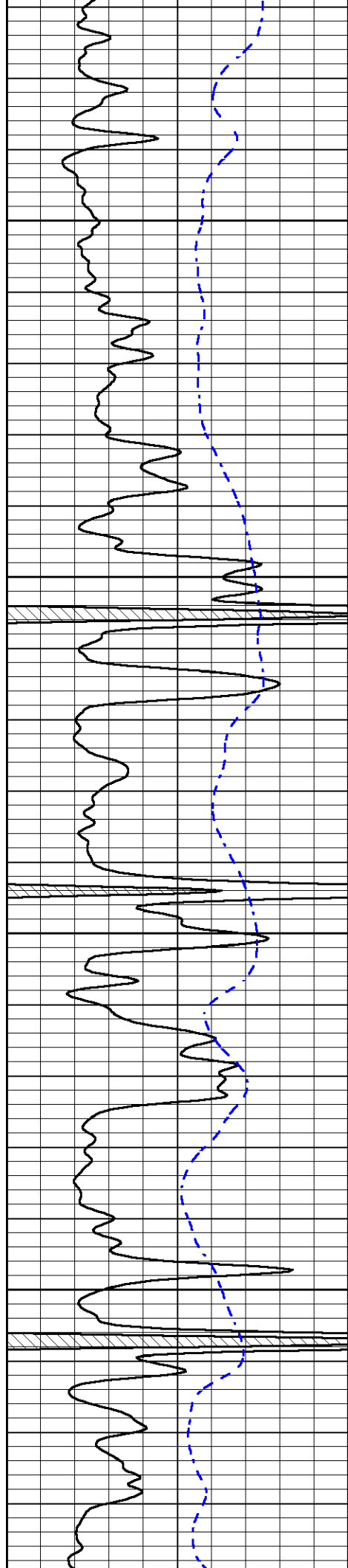
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4000

4050

4100



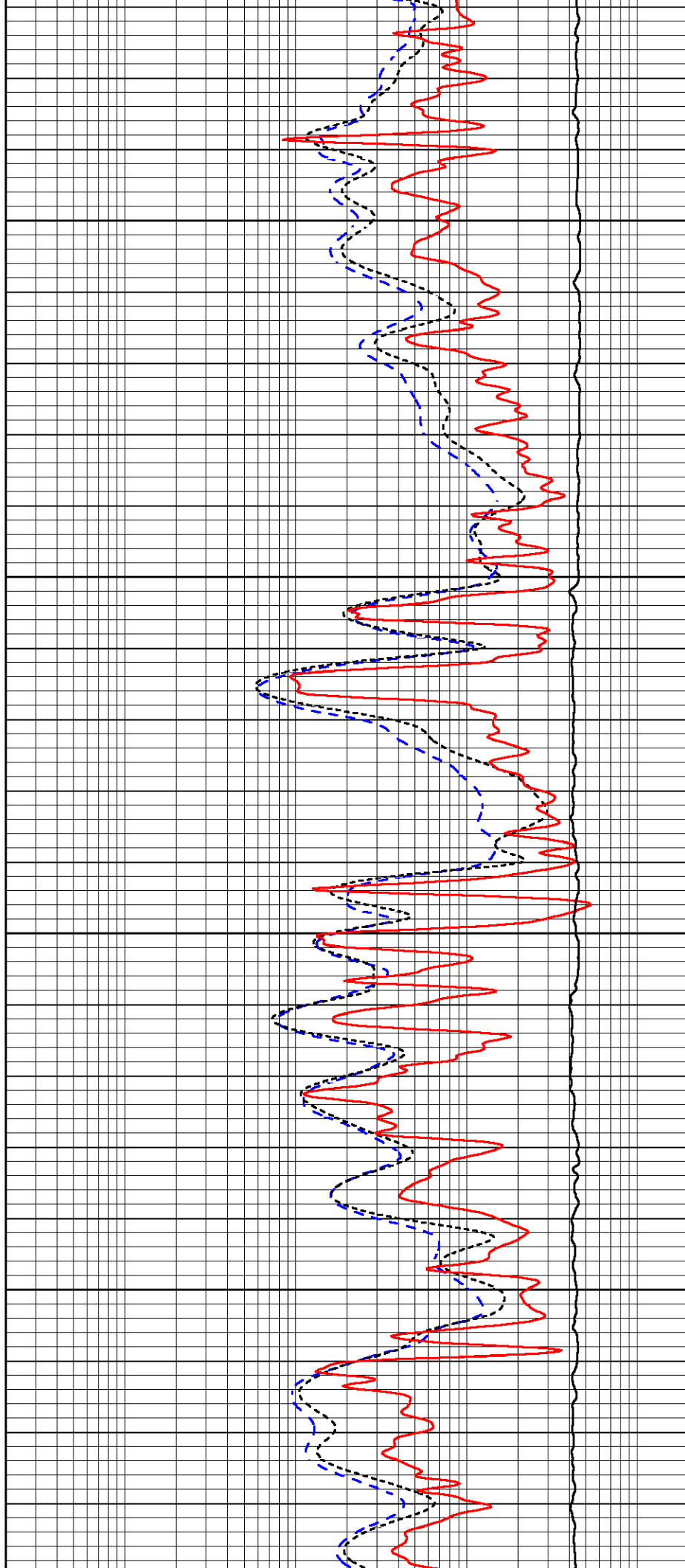


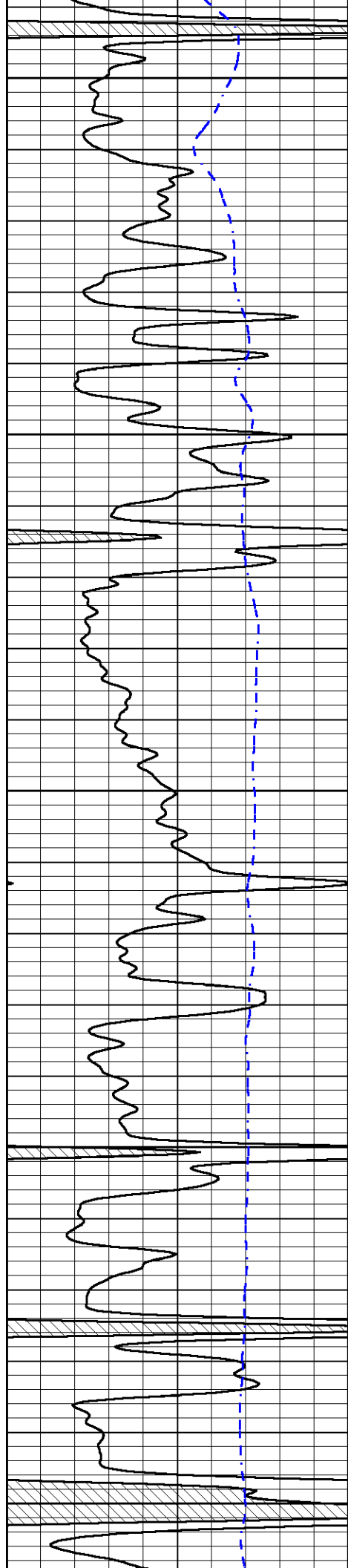
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4200

4250

4300





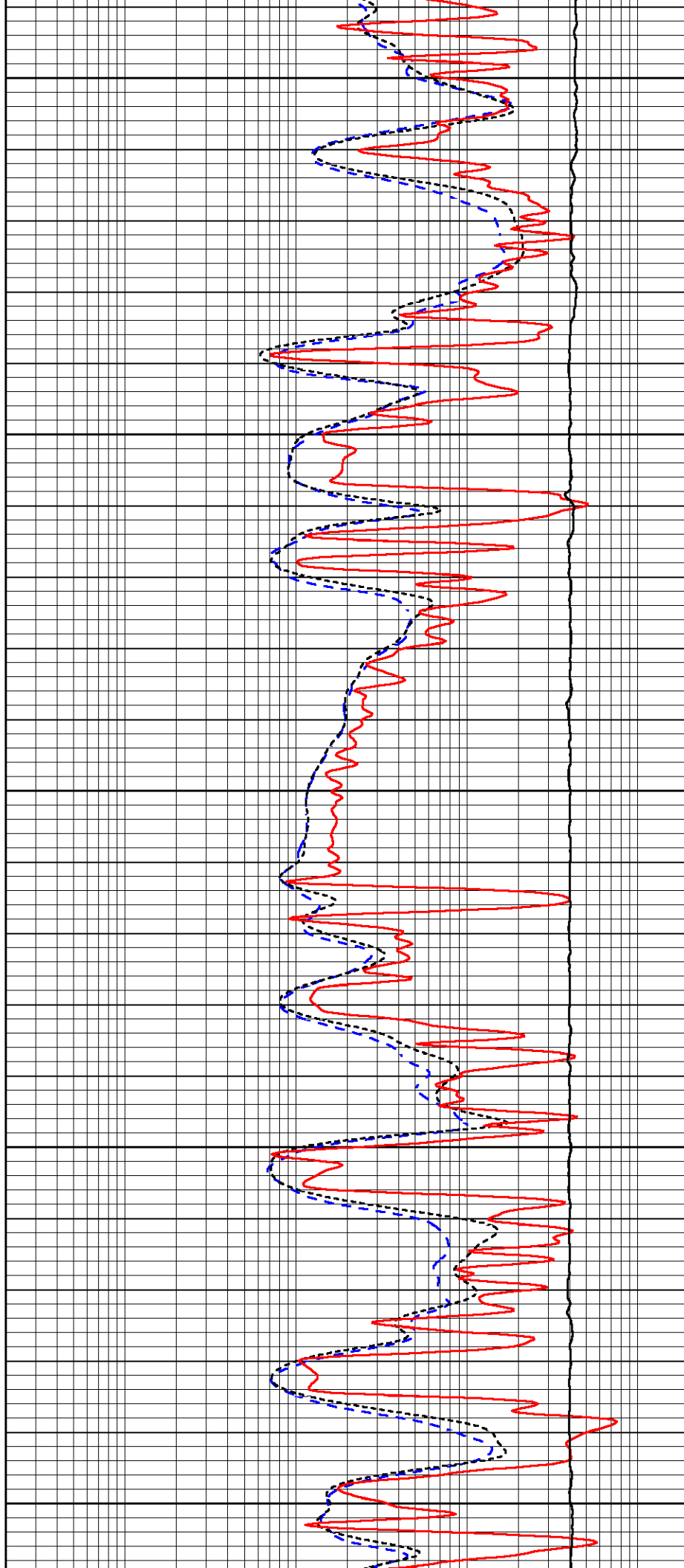
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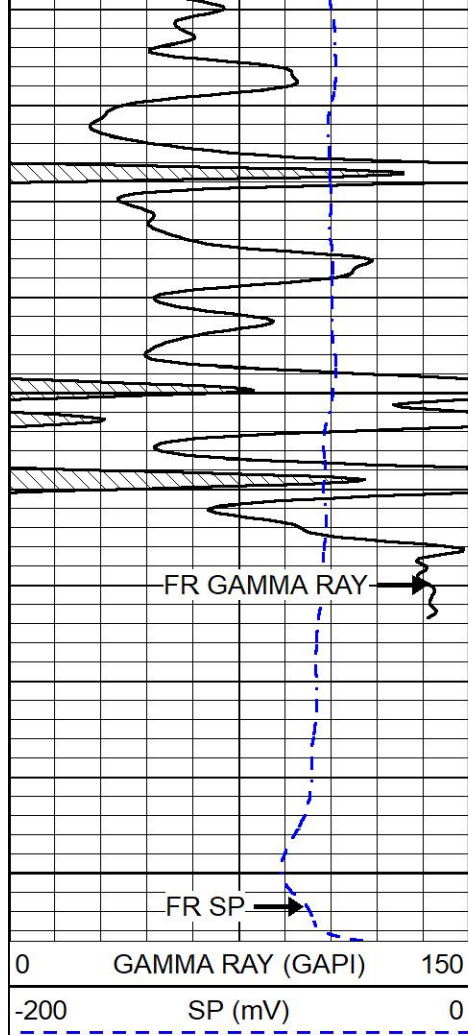
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4500

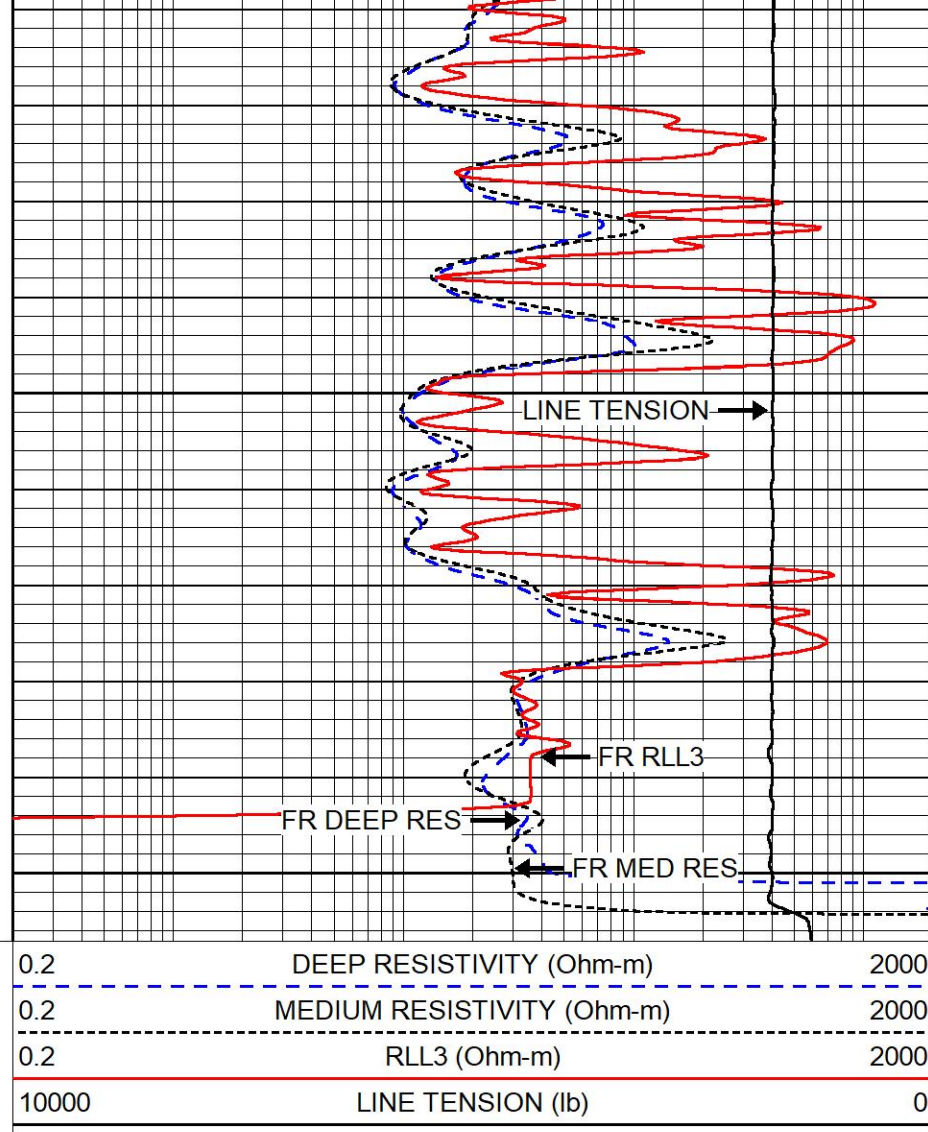
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4600

4650

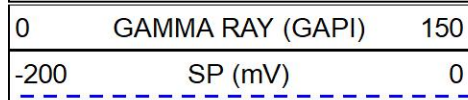


MIDWEST WIRELINE

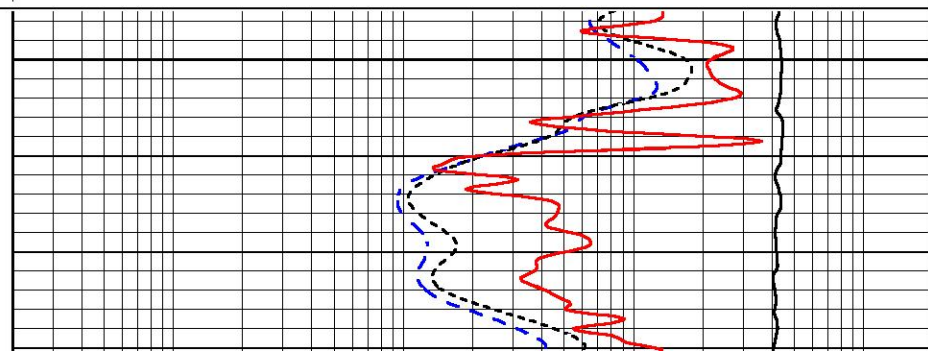
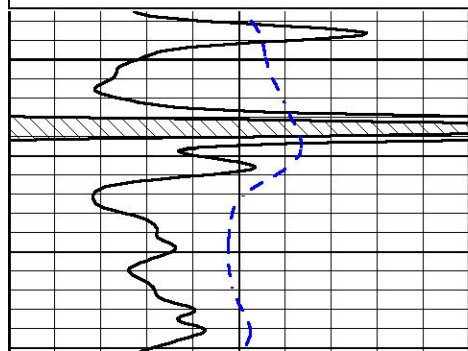
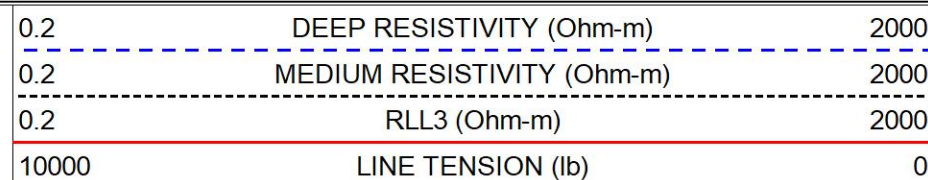
REPEAT SECTION

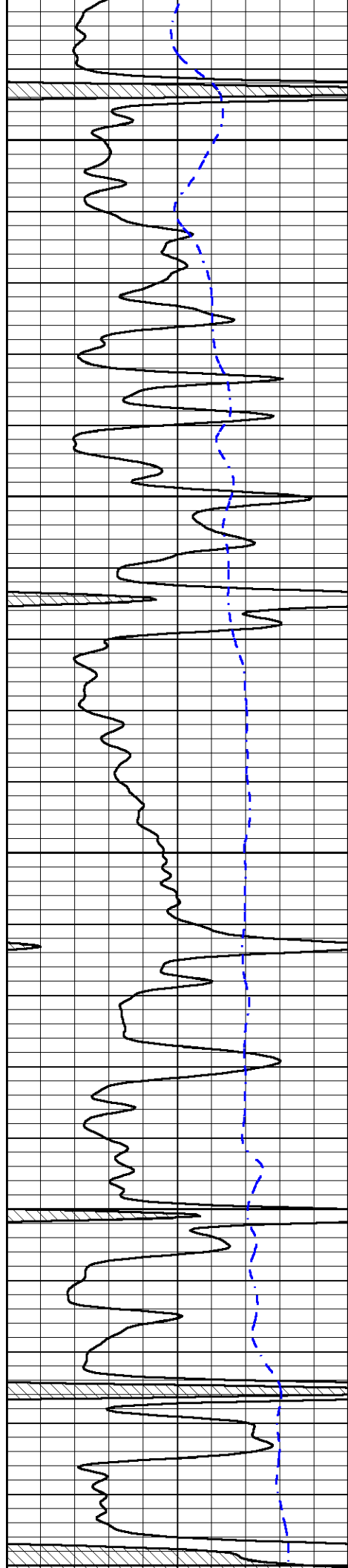
REPEAT PASS

Database File talon_hineman r #1-20.db
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 Presentation Format _dil
 Dataset Creation Fri Sep 10 06:51:56 2021
 Charted by Depth in Feet scaled 1:240



4300





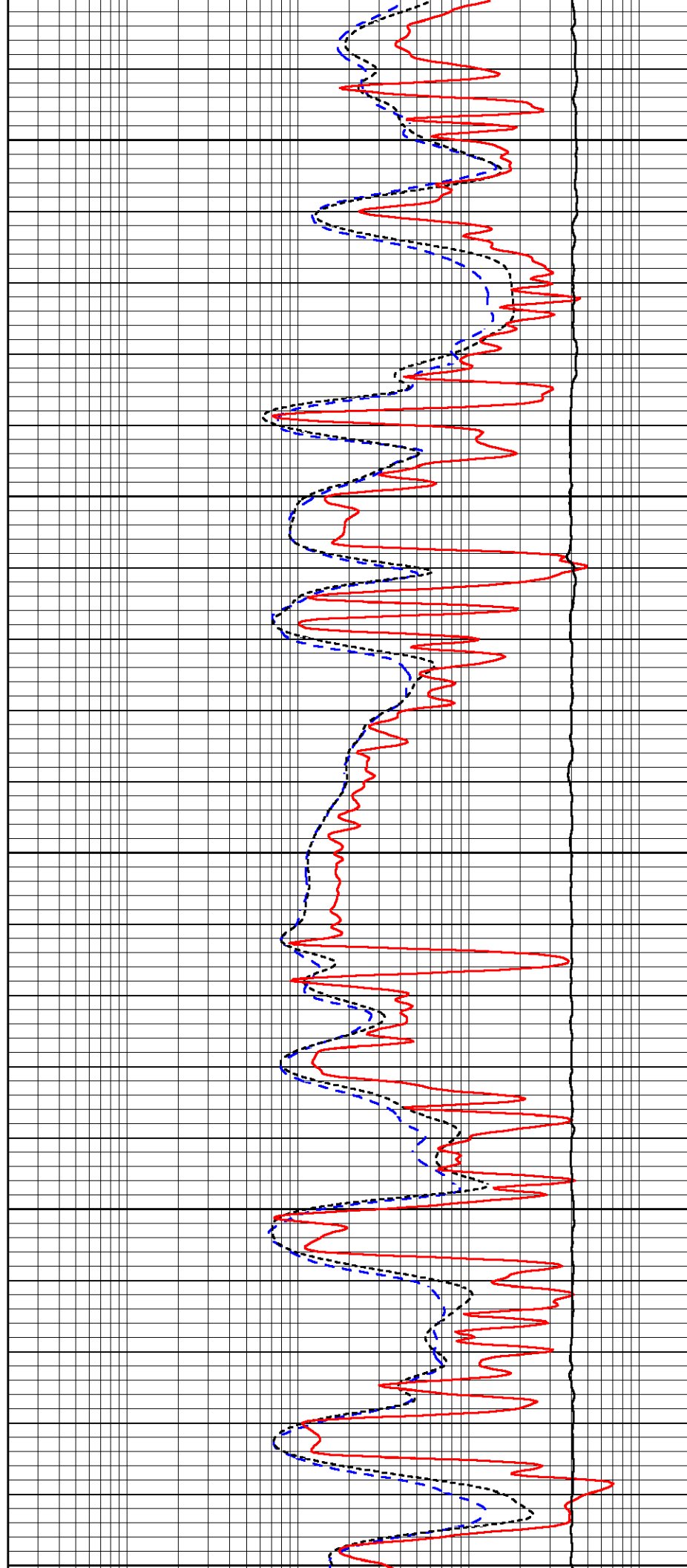
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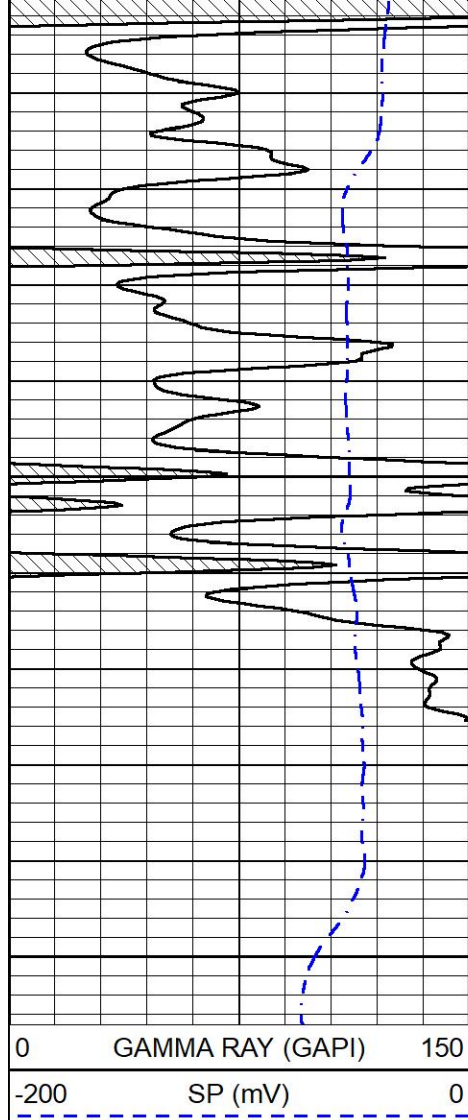
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4500

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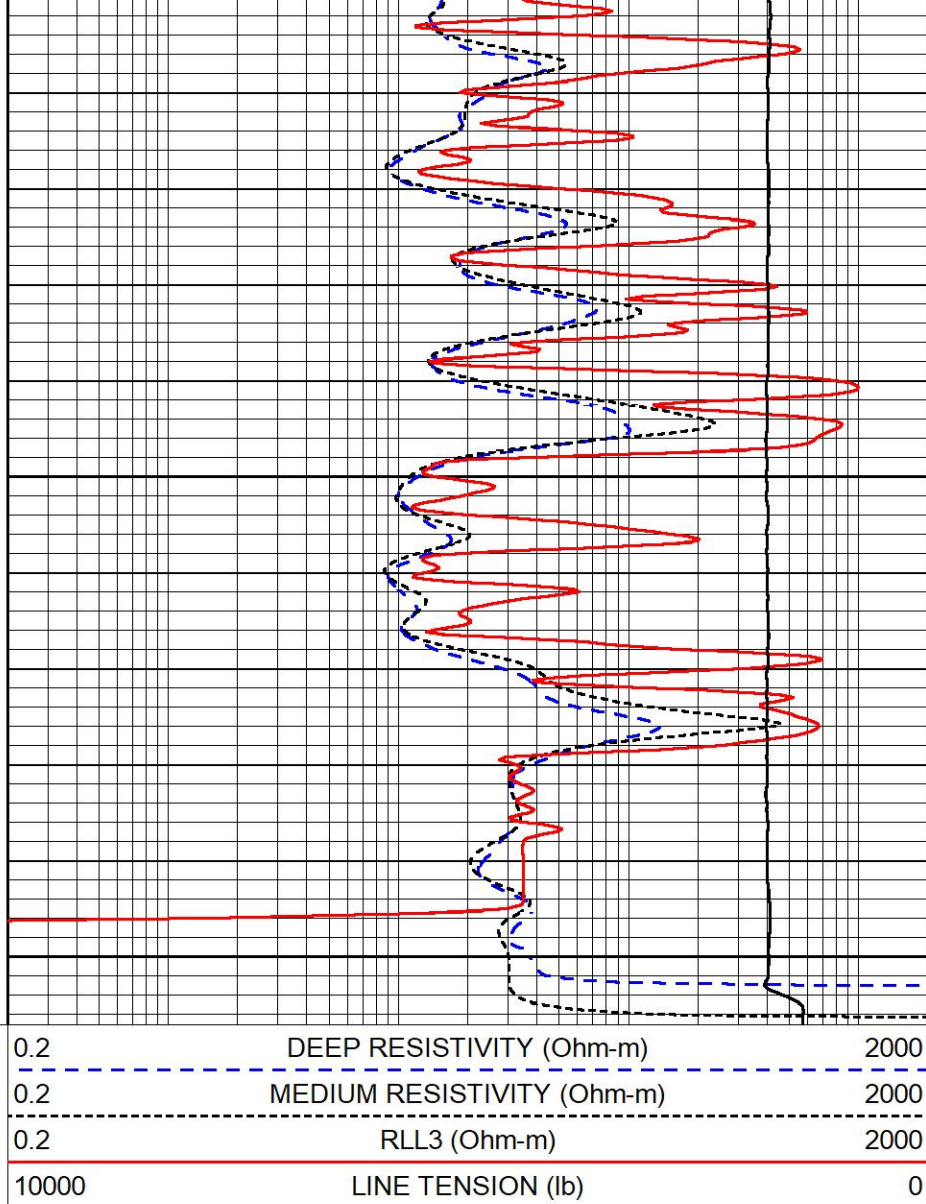




4550

4600

4650



Company Talon Group LLC

Well Hineman R 1-20

Field Hineman

County Lane

State Kansas