

MIDWEST WIRELINE

DUAL INDUCTION LOG

Company R. P. Nixon Operations, Inc.
Well Leiker Twin #6
Field Air Base
County Ellis
State Kansas

Company R. P. Nixon Operations, Inc.

Well Leiker Twin #6

Field Air Base

County Ellis

State Kansas

Location: API #: 15-151-27029-00-00

1582 FSL & 1266 FWL

SEC 26 TWP 13S RGE 16W

Permanent Datum Ground Level Elevation 1942
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Other Services
CNL/CDL
MEL
K.B. 1950
D.F. 1942

Date 3/20/2022

Run Number One

Depth Driller 3530

Depth Logger 3534

Bottom Logged Interval 3533

Top Log Interval 300

Casing Driller 8.625 @ 309

Casing Logger 308

Bit Size 7.875

Type Fluid in Hole Chemical

Salinity, ppm CL 8200

Density / Viscosity 9.2 51

pH / Fluid Loss 10.5 6.8

Source of Sample FLOWLINE

Rm @ Meas. Temp 0.60 @ 55

Rmt @ Meas. Temp 0.45 @ 55

Rmc @ Meas. Temp 0.81 @ 55

Source of Rmt / Rmc CHARTS

Rm @ BHT 0.30 @ 111

Operating Rig Time 2 Hours

Max Rec. Temp. F 111

Equipment Number P-24

Location Hays

Recorded By D. Schmidt

Witnessed By Dan Nixon

<<< Fold Here >>>

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.

Walker,
1.1 North, West into

Log Measured From: Kelly Bushing 8 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: D. Schmidt
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Dan Nixon
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\rp nixon_leiker twin 6.db
Dataset field/well/stkml/pass3.12/_vars_

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 111	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 -130	degF 40	Off	ft 3534

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

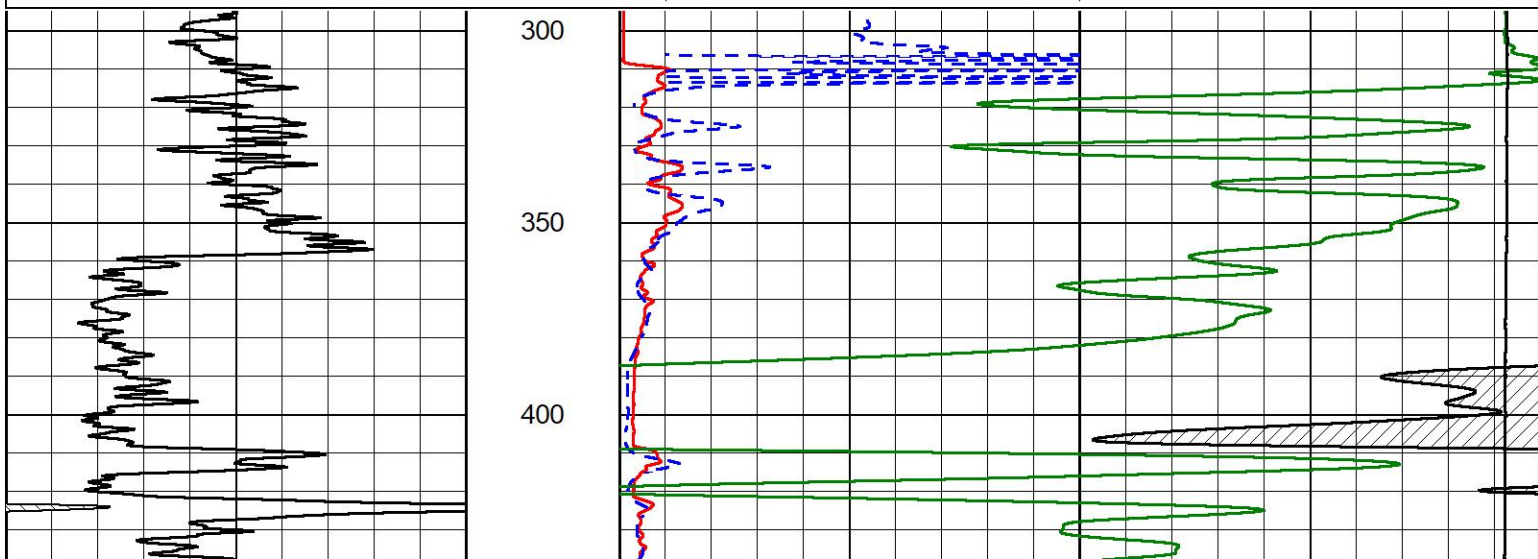


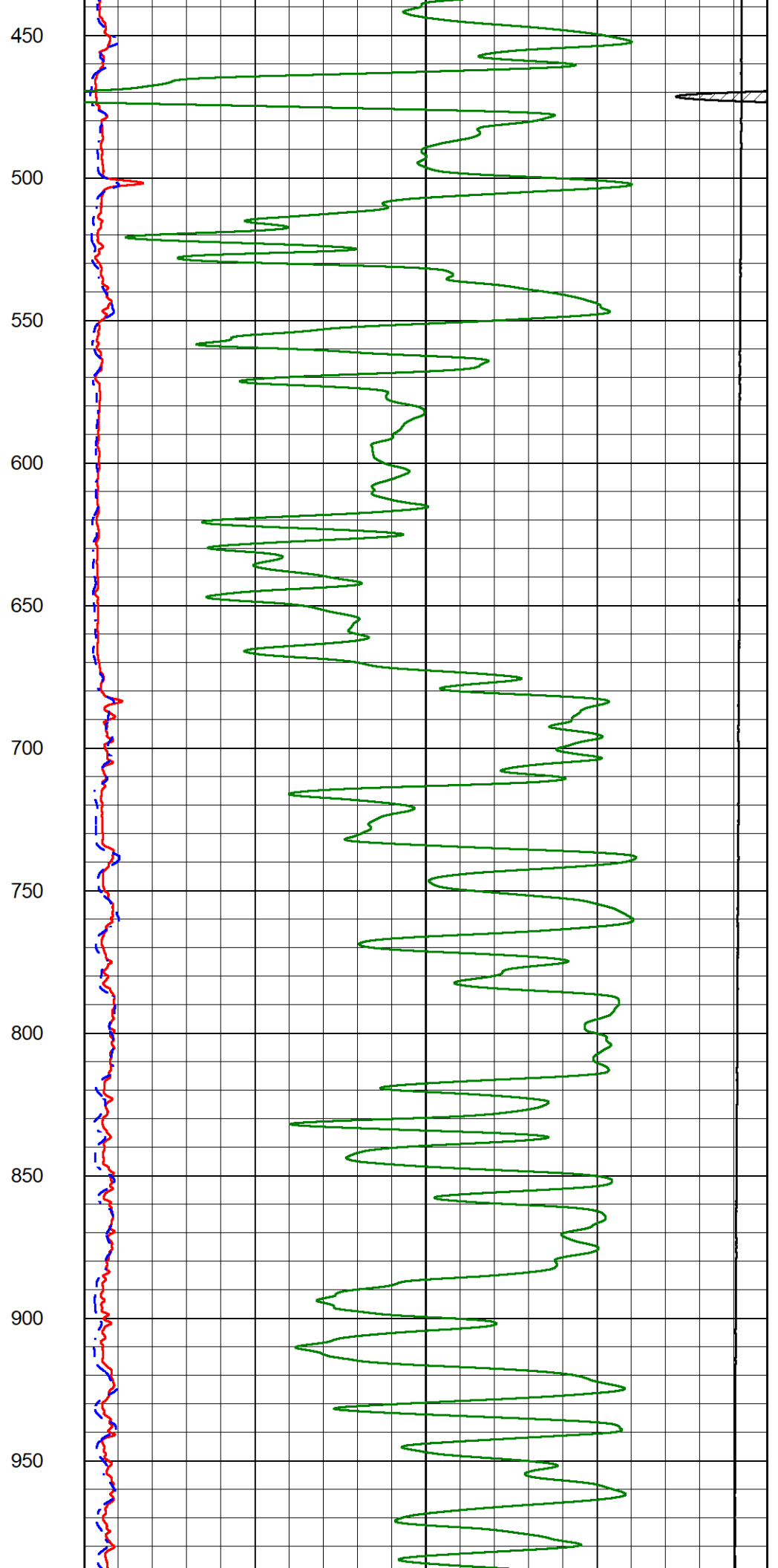
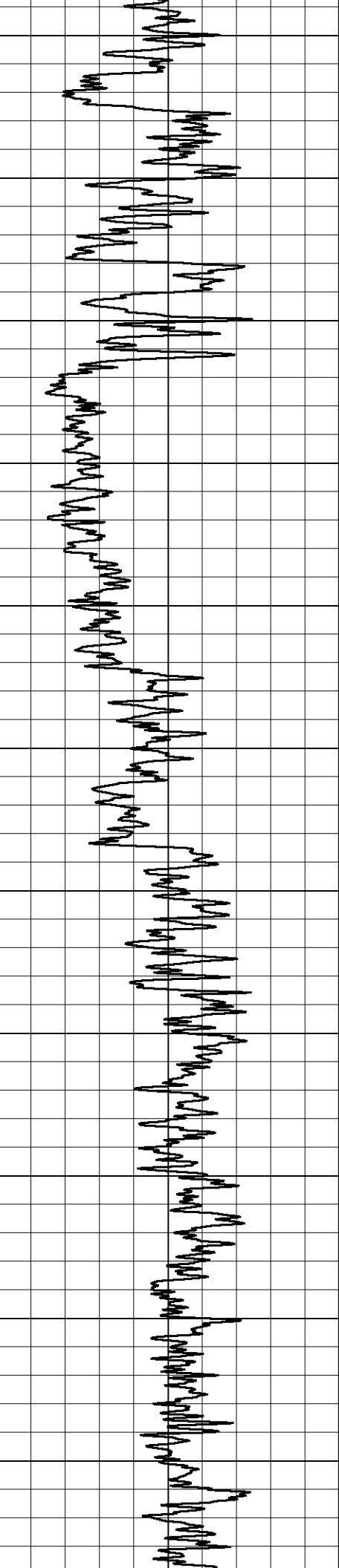
2" SCALE RESISTIVITY

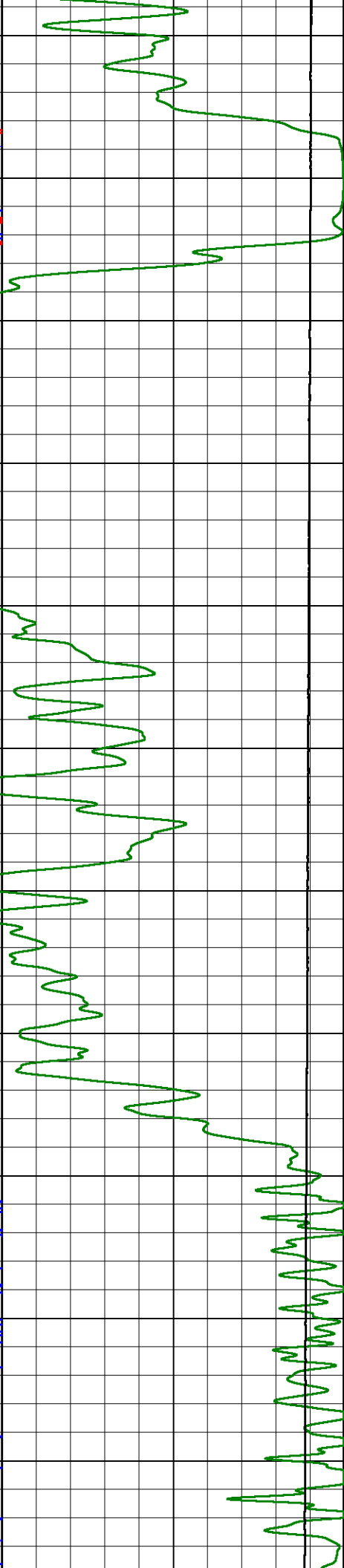
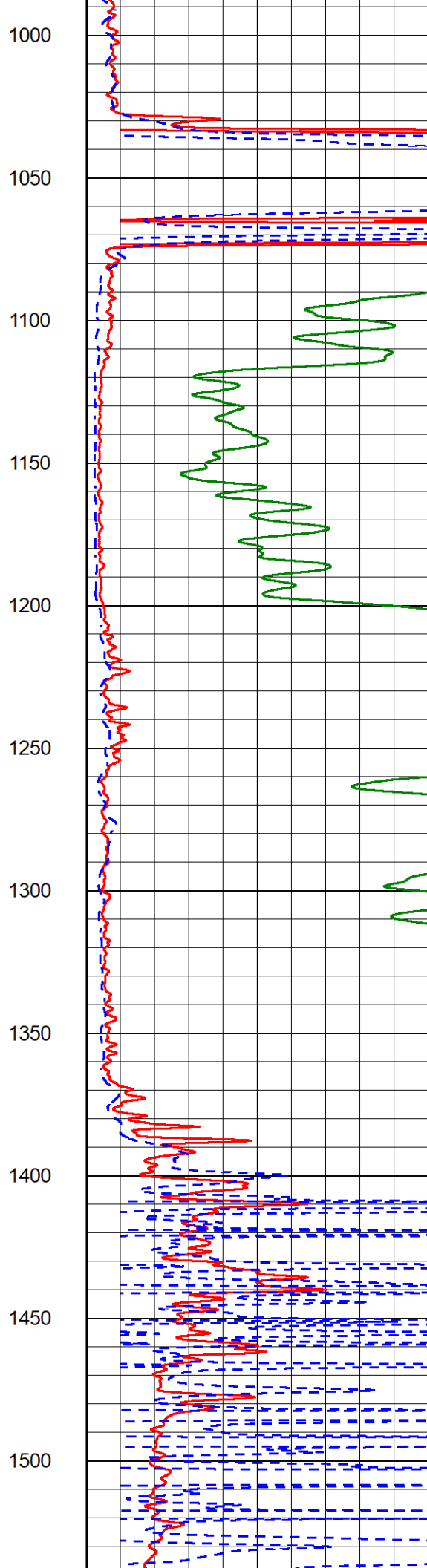
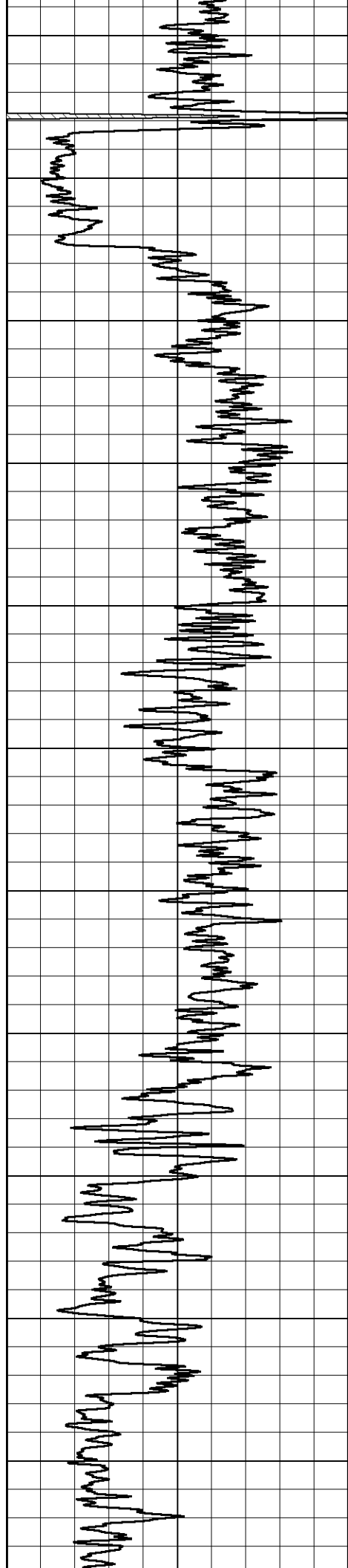
MAIN PASS

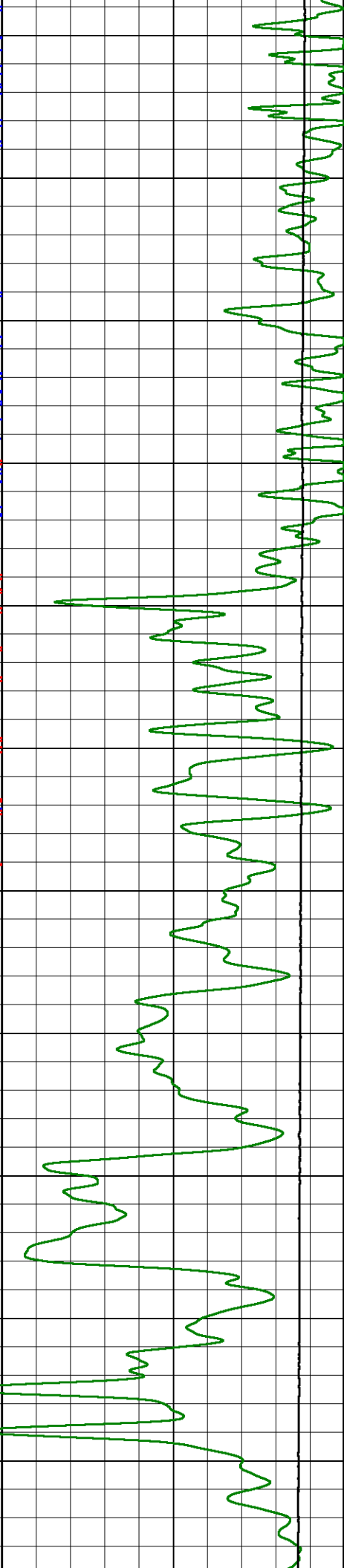
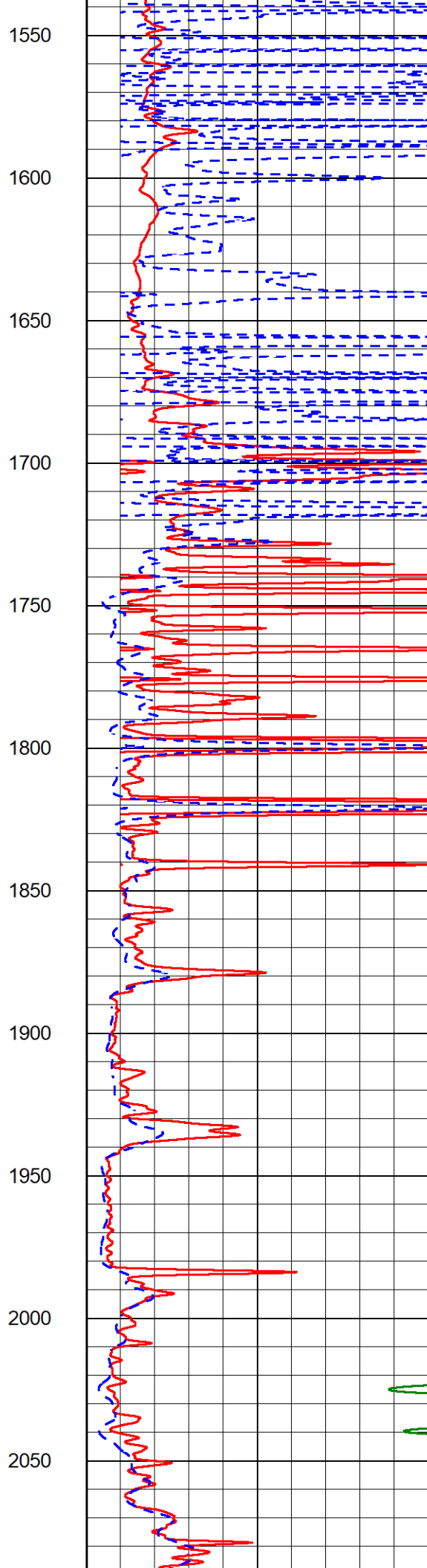
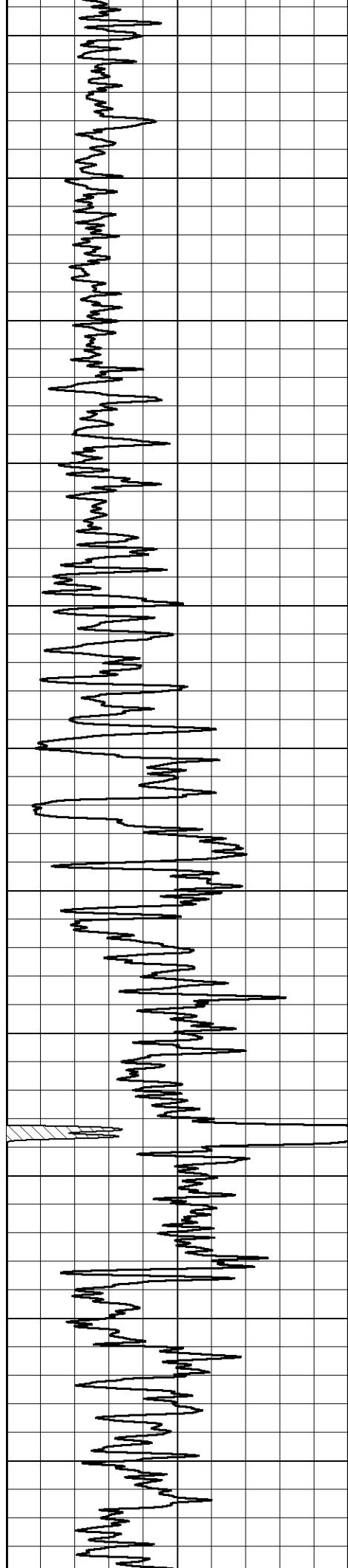
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Dataset Creation Sun Mar 20 02:37:42 2022
Charted by Depth in Feet scaled 1:600

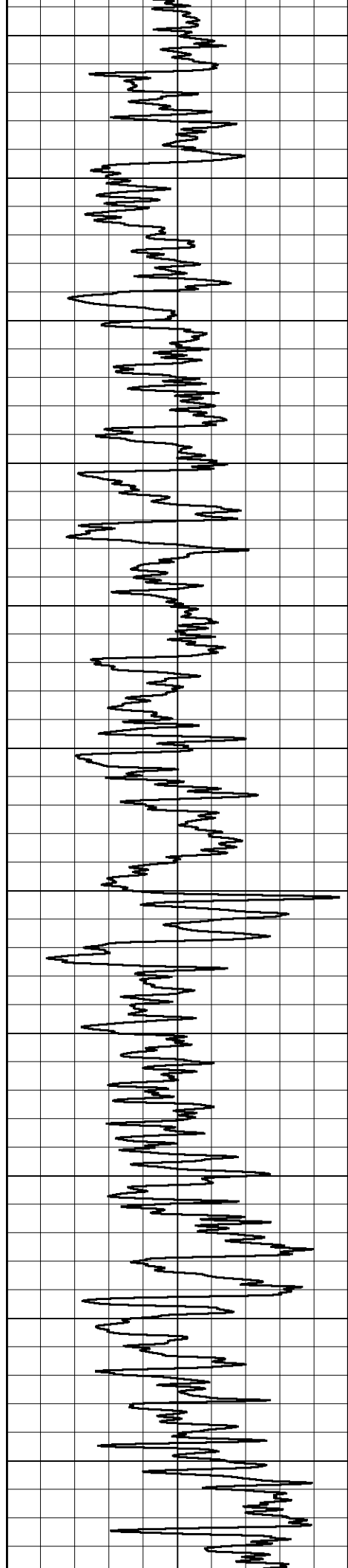
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			15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
				Shallow Resistivity	
			50	(Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200











2100

2150

2200

2250

2300

2350

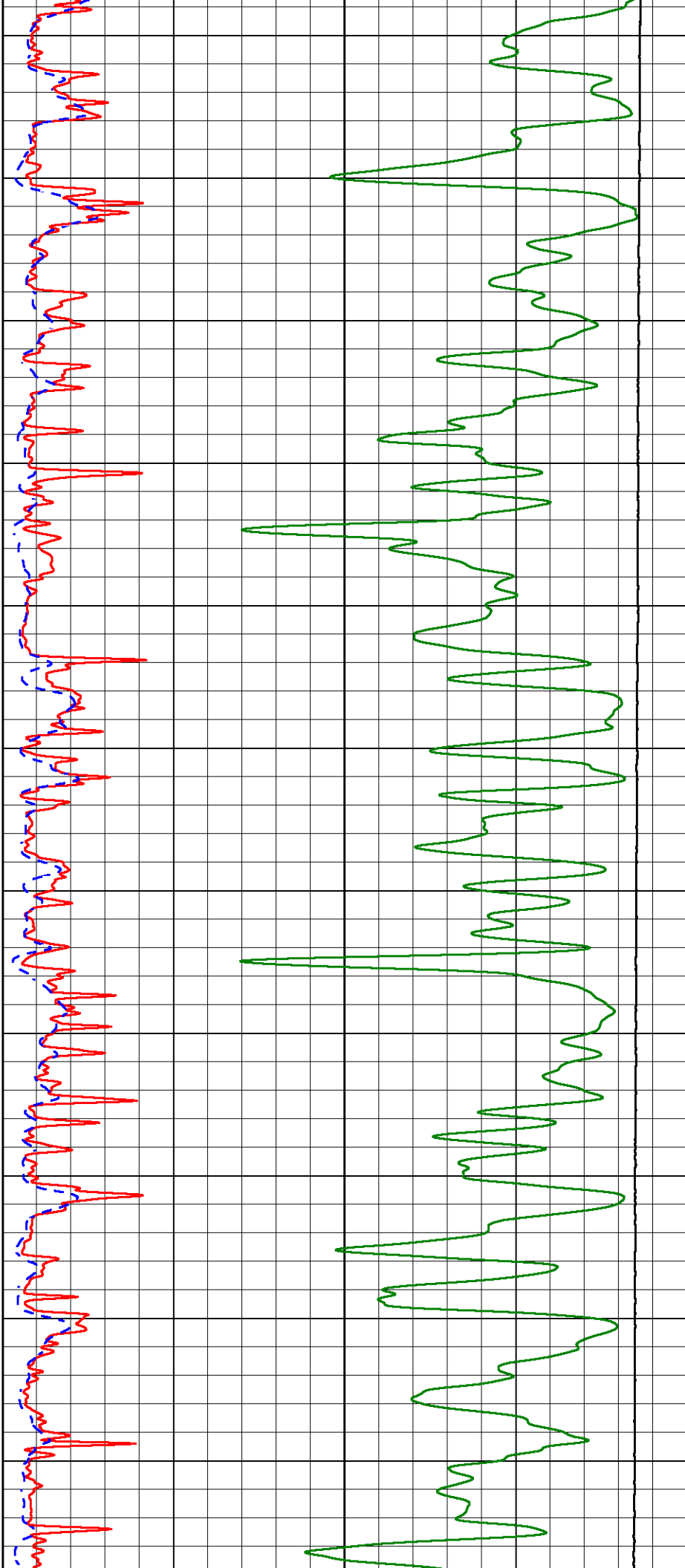
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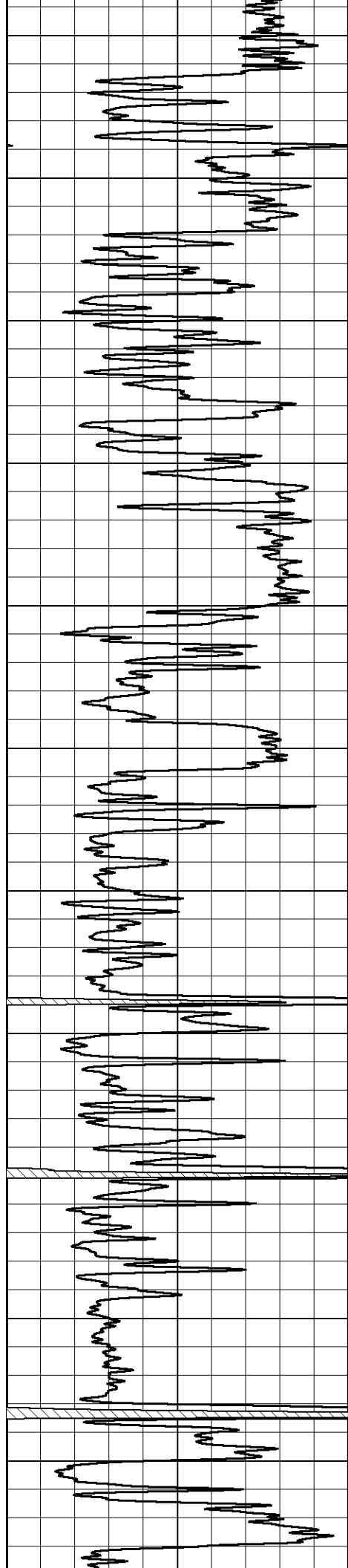
2450

2500

2550

2600





2650

2700

2750

2800

2850

2900

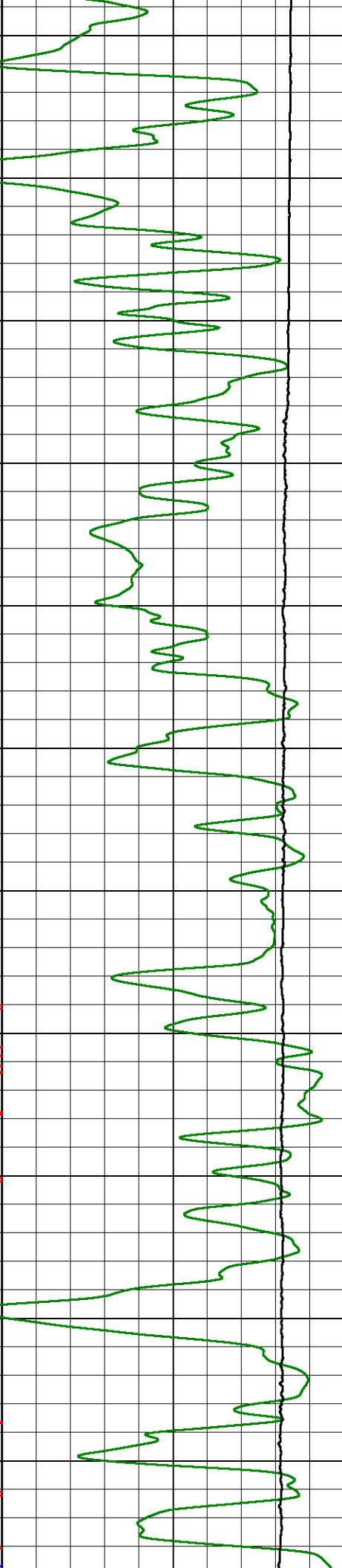
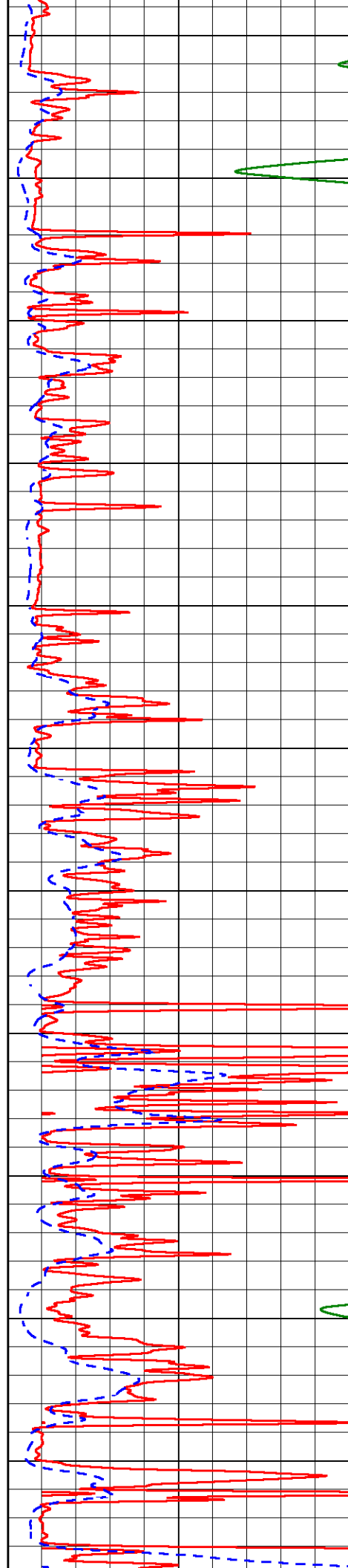
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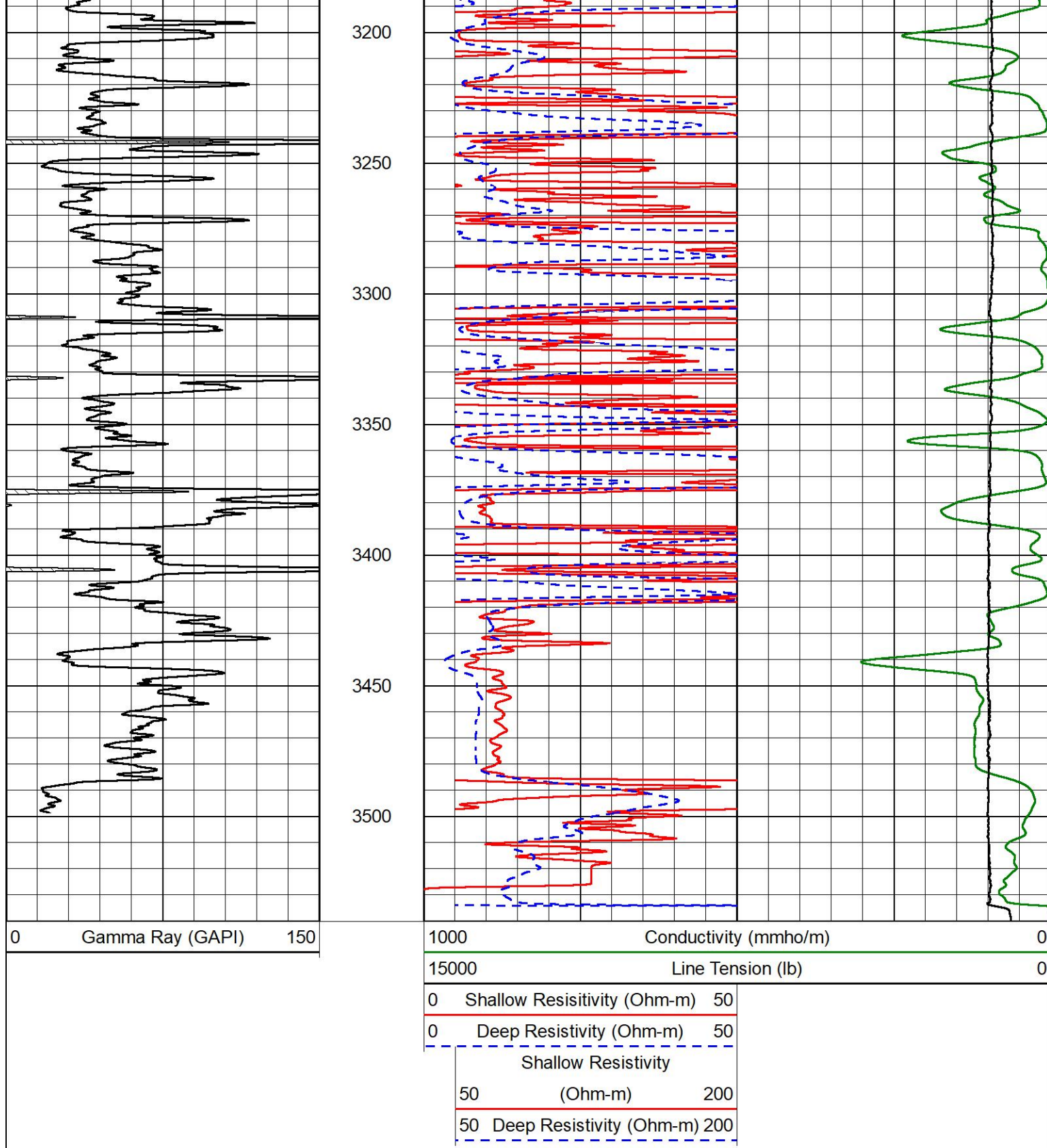
3000

3050

3100

3150



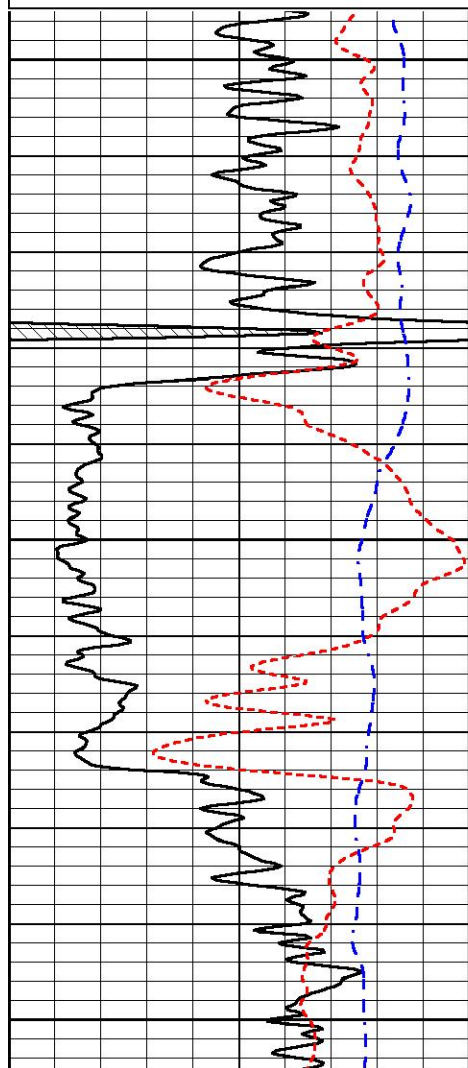


ANHYDRITE SECTION

MAIN PASS

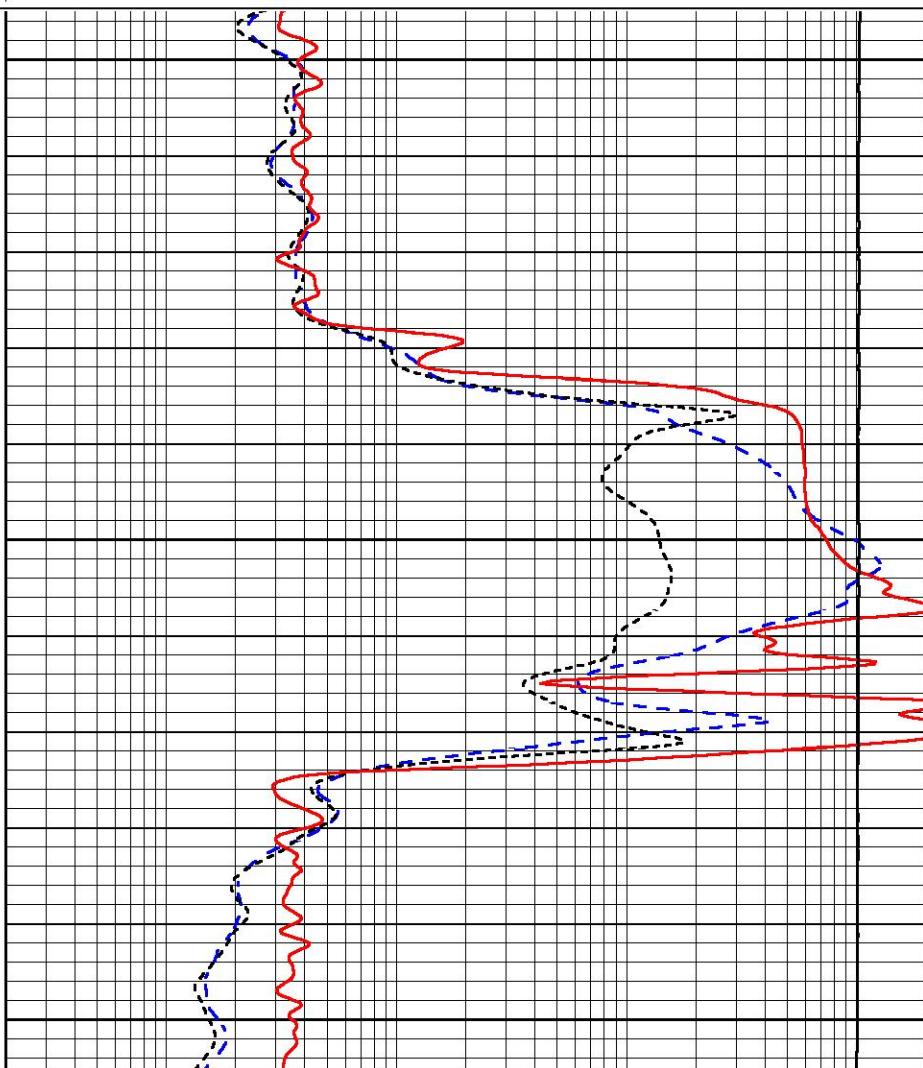
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 Presentation Format _dil
 Dataset Creation Sun Mar 20 02:37:48 2022
 Charted by Depth in Feet scaled 1:240

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



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	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0



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



MIDWEST WIRELINE

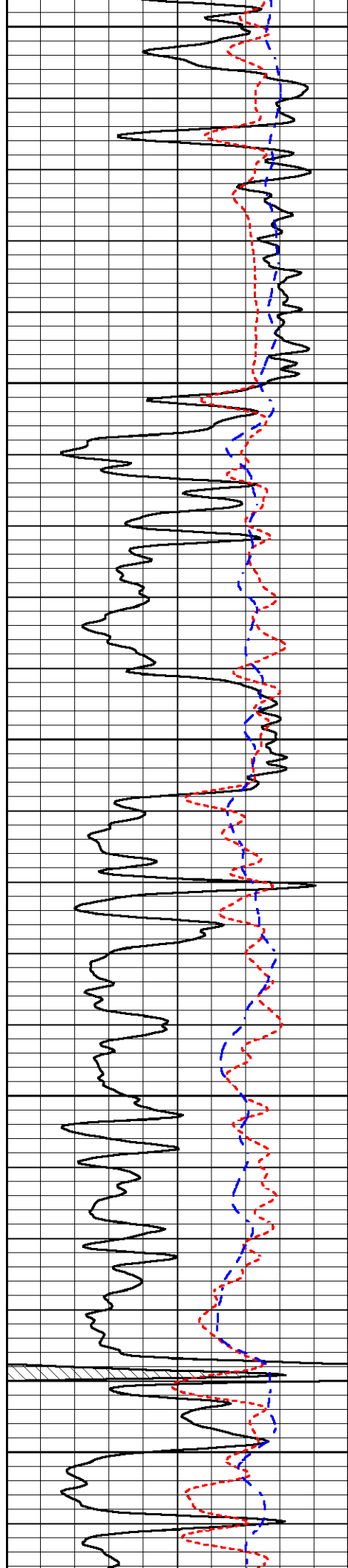
DETAIL SECTION

MAIN PASS

Database File rp nixon_leiker twin 6.db
Dataset Pathname stkml/pass3.1
Presentation Format _dil
Dataset Creation Sun Mar 20 02:37:31 2022
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	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0



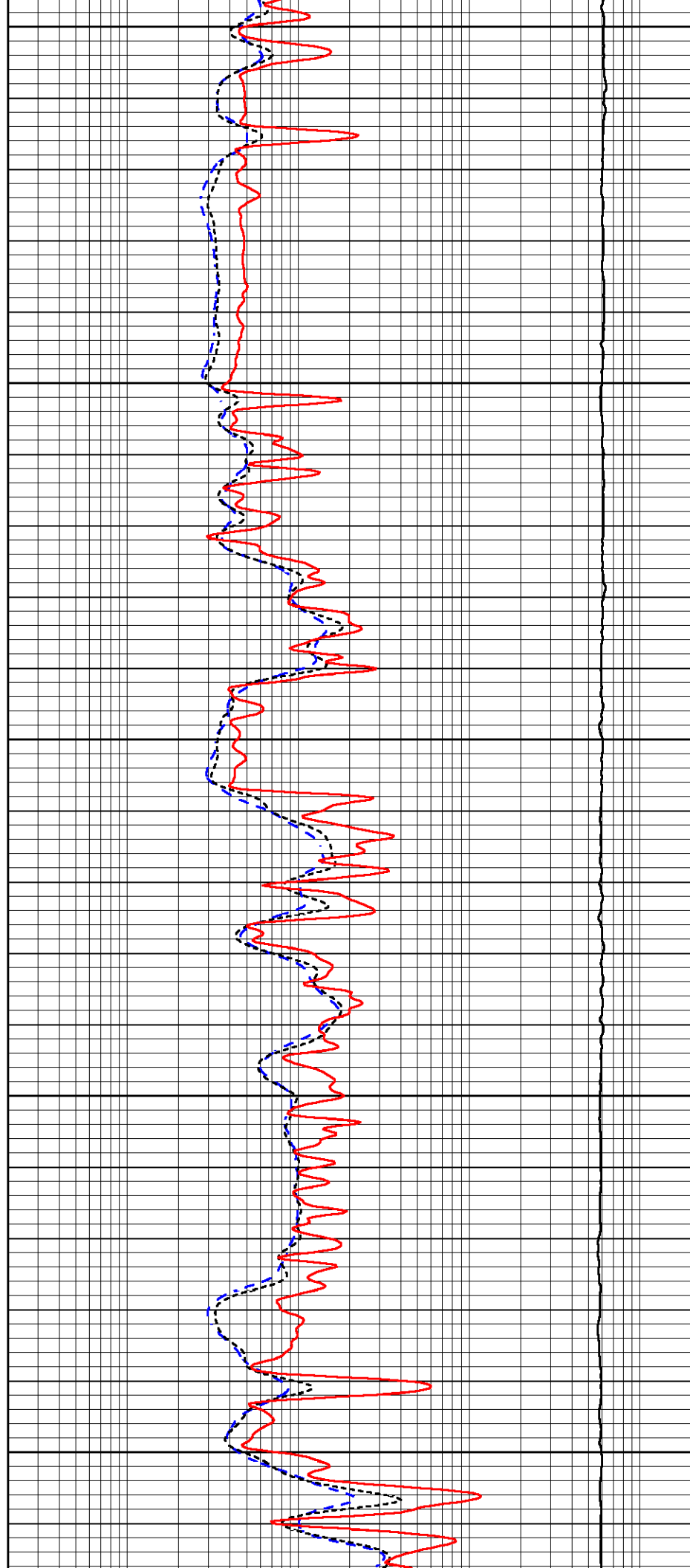
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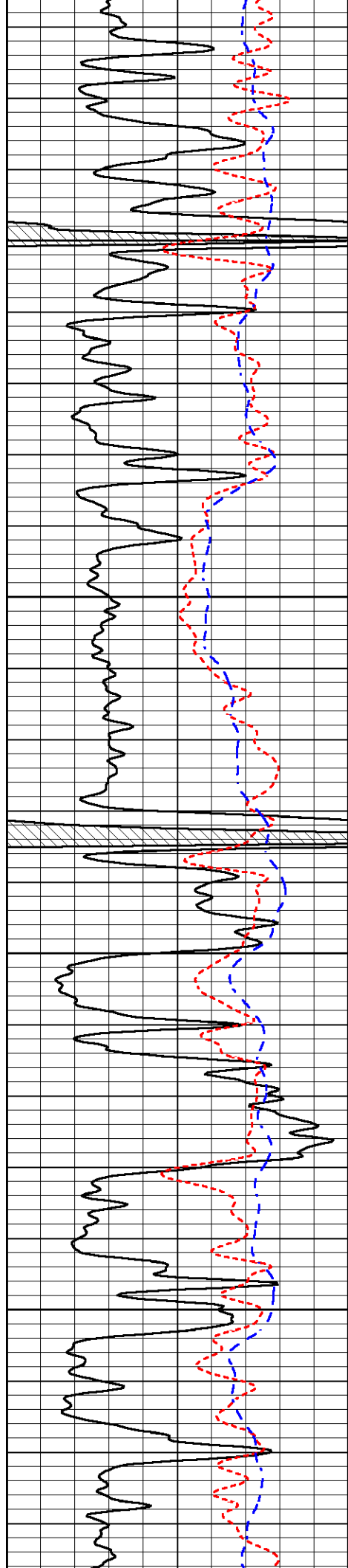
2850

2900

2950

3000



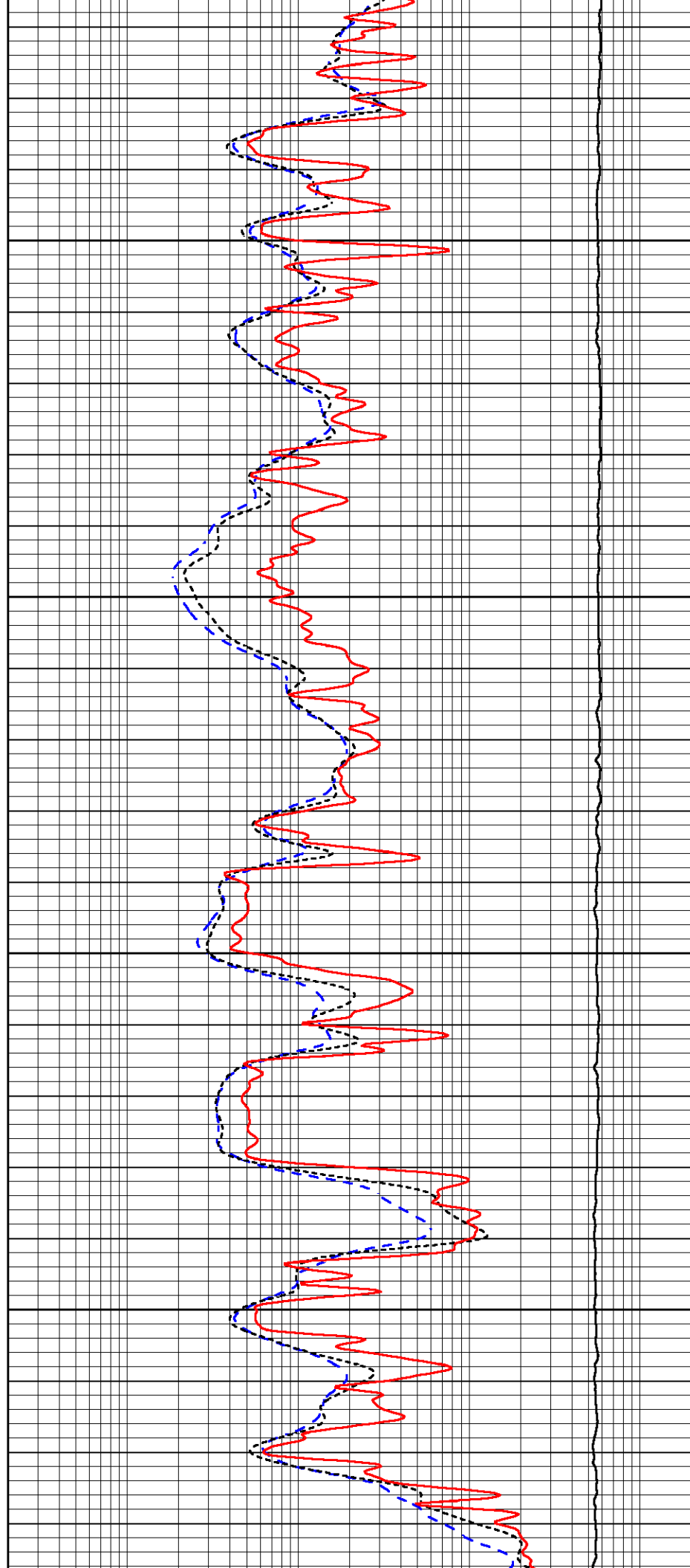


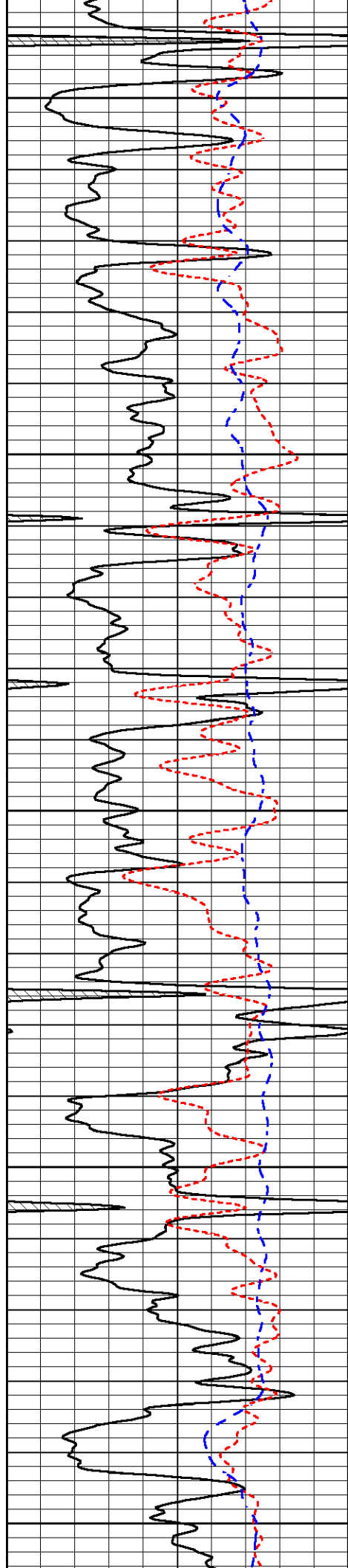
3050

3100

3150

3200





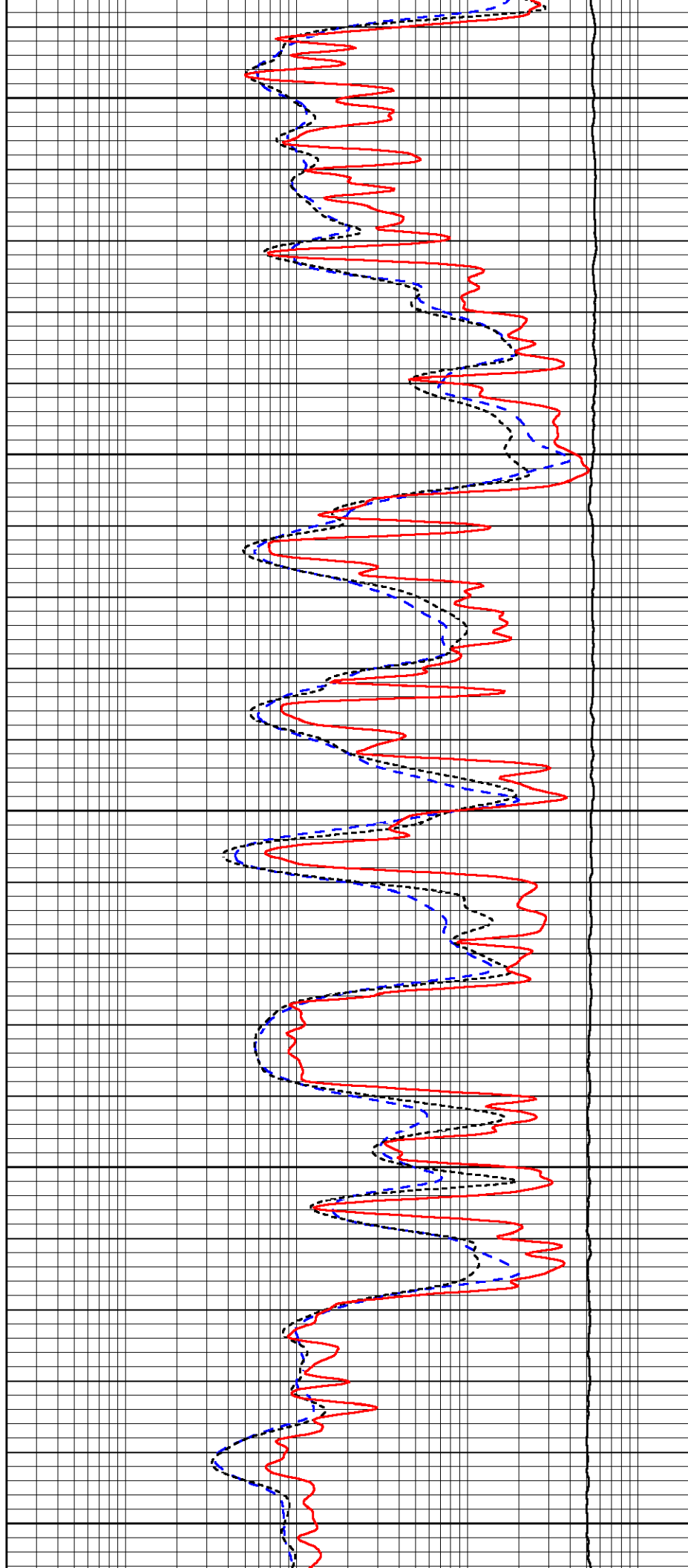
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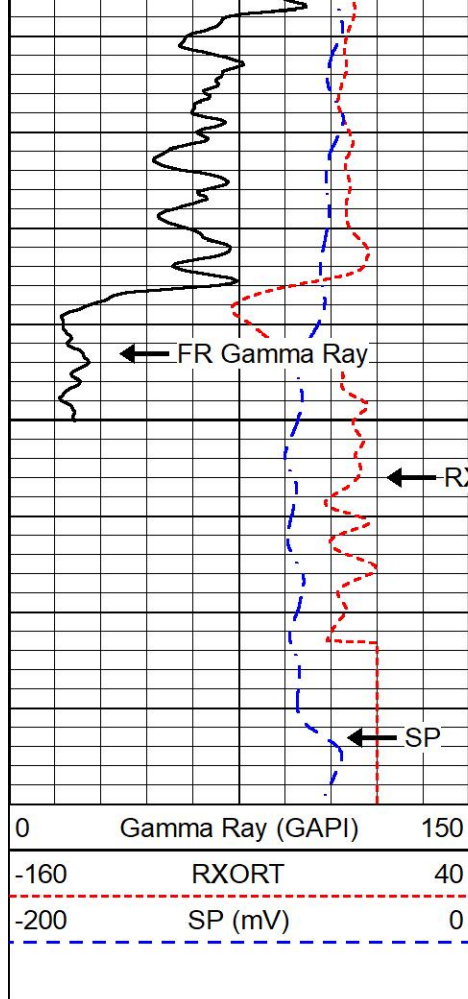
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3350

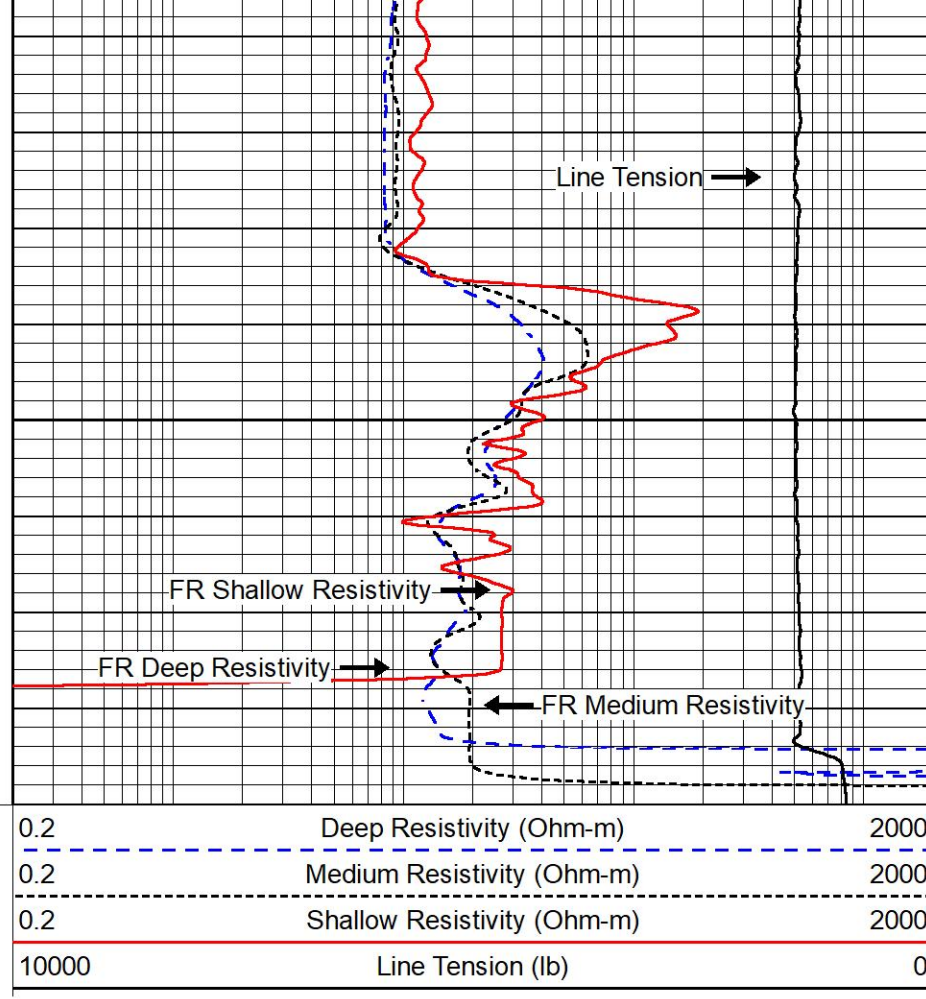
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3450





3500

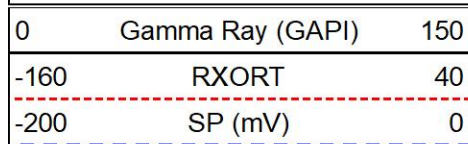


MIDWEST WIRELINE

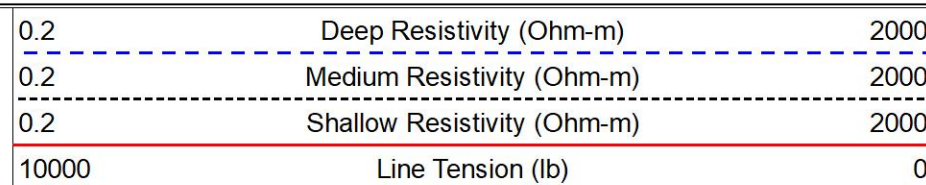
REPEAT SECTION

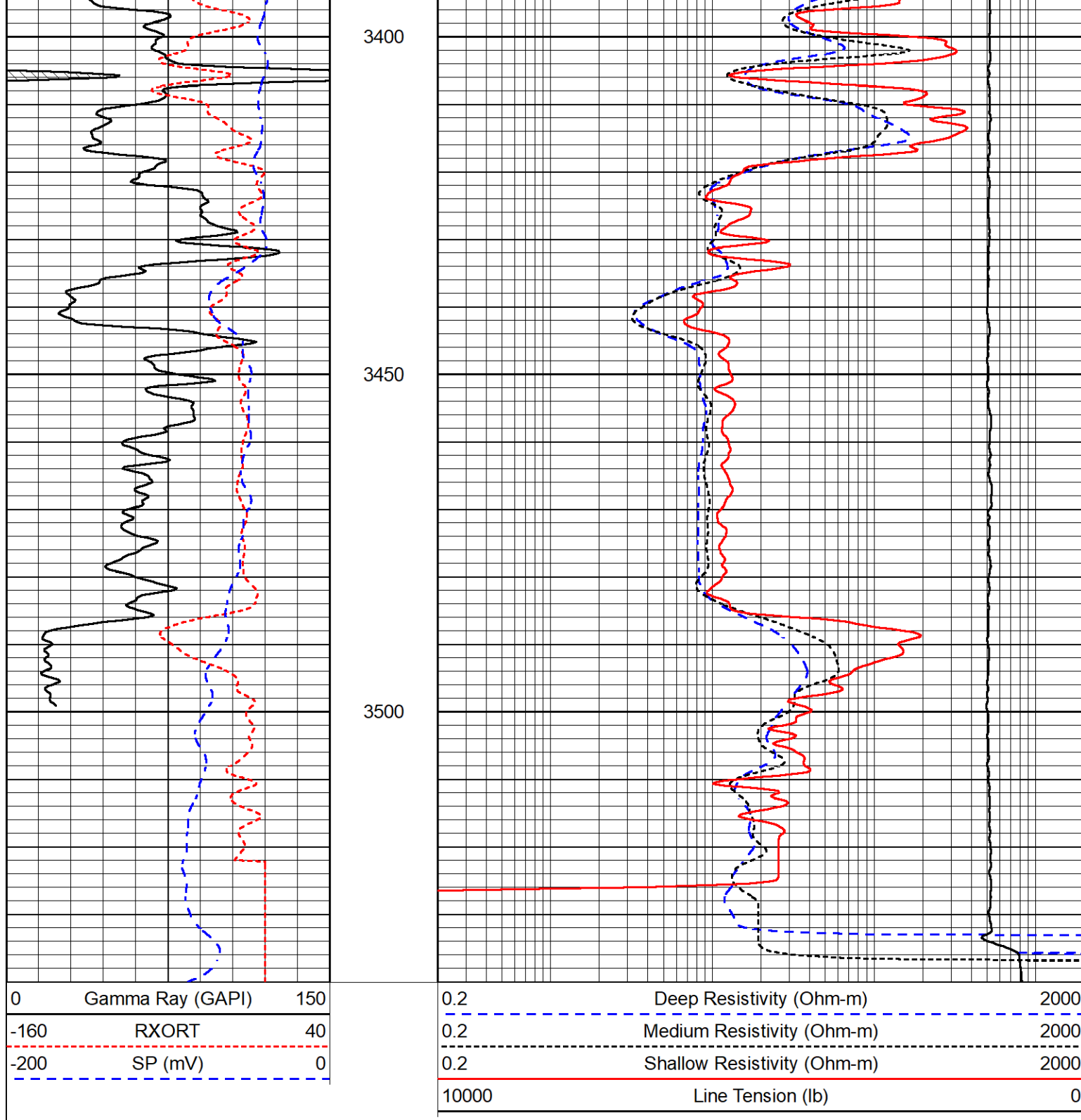
REPEAT PASS

Database File rp nixon_leiker twin 6.db
 Dataset Pathname stkml/pass2.12
 Presentation Format _dil
 Dataset Creation Sun Mar 20 02:13:05 2022
 Charted by Depth in Feet scaled 1:240



3350





Calibration Report						
Database File	rp nixon_leiker twin 6.db					
Dataset Pathname	stkml/pass3.12					
Dataset Creation	Sun Mar 20 01:47:45 2022					
Dual Induction Calibration Report						
Serial-Model:			501 HT-M&W			
Surface Cal Performed:			Wed Feb 23 19:44:50 2022			
Readings		References			Results	
Loop:	Air	Loop	Air	Loop	m	b

Deep	83.639	487.104	0.000	183.000	mmho/m	0.455	-38.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.290	-31.500
Microlog Calibration Report							
Serial-Model: Performed:				402-PSIML Mon Jan 24 20:31:16 2022			
Readings			References			Results	
	Zero	Cal		Zero	Cal	m	b
Normal	0.0000	1.0000		0.0000	1.0000	Ohm-m	35000.0000
Inverse	0.0000	1.0000		0.0000	1.0000	Ohm-m	30000.0000
Caliper	1.0052	1.0858		5.0000	16.5000	in	125.0000
							-0.8000
							0.2000
							-122.2000
Compensated Density Calibration Report							
Serial-Model: Source #: Master Calibration Performed:				305-05-M&W 20762B Sat Mar 12 21:07:42 2022			
Master Calibration							
		Density		Far Detector		Near Detector	
Magnesium		1.755	g/cc		8862.47	9339.96	cps
Aluminum		2.618	g/cc		1556.73	5707.29	cps
Spine Angle = 74.19				Density/Spine Ratio = 0.477			
		Size		Reading			
Small Ring		4.00	in		1.75		
Large Ring		14.00	in		1.38		
Compensated Neutron Calibration Report							
Serial-Model: Source #: Master Calibration Performed:				207-MW-M&W 100046B Mon Nov 29 15:06:24 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:		101					
Tool Model:		M&W					
Performed:		Mon Jan 24 19:14:46 2022					
Calibrator Value:		500.0		GAPI			
Background Reading:		24.0		cps			
Calibrator Reading:		637.0		cps			
Sensitivity:		0.5500		GAPI/cps			



Company	R. P. Nixon Operations, Inc.
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County	Ellis
State	Kansas