



MIDWEST WIRELINE

DUAL INDUCTION

Company Fossil Energy LLC			
Well Prairie Land #1			
Field			
County Norton	State Kansas		
Location: API #: 15-137-20766-00-00			
NE SE SW SW 468 FSL & 1187 FWL SEC 3 TWP 3S RGE 23W			
Permanent Datum	Ground Level	Elevation	2243
Log Measured From	Kelly Bushing		
Drilling Measured From	Kelly Bushing		
Other Services		CNL/CDL MEL	
Date		6/30/2023	
Run Number	One		
Depth Driller	3580		
Depth Logger	3581		
Bottom Logged Interval	3580		
Top Log Interval	300		
Casing Driller	8.625 @ 303		
Casing Logger	305		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	1000		
Density / Viscosity	9.2	52	
pH / Fluid Loss	11.0	8.0	
Source of Sample	Flowline		
Rm @ Meas. Temp	0.75 @ 73		
Rmt @ Meas. Temp	0.56 @ 73		
Rmc @ Meas. Temp	1.01 @ 73		
Source of Rmt / Rmc	Charts		
Rm @ BHT	0.49 @ 112		
Operating Rig Time	3.5 Hours		
Max Rec. Temp. F	112		
Equipment Number	P-24		
Location	Hays		
Recorded By	T. Martin		
Witnessed By	Randy Kilian		

<<< 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.

Norton, KS, S side of town,
W on Lower Dam Rd 1/2, W into

Log Measured From: Kelly Bushing 7 Ft. Above Permanent Datum

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

Your Midwest Wireline Crew

Engineer: T. Martin
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Randy Kilian
Secondary Witness:
Secondary Witness:
Secondary Witness:

Log Variables

DatabaseC:\ProgramData\Warrior\Data\fossil_prairie land #1.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	112	5.5	0	1		2.71
NPORSEL	PERFS	SNDERR	SNDERRM	SPSHIFT	SRFTEMP	SZCOR	TDEPTH
Limestone	No	mmho/m	mmho/m	mV	degF	Off	ft
		5	5	310	80		3581

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

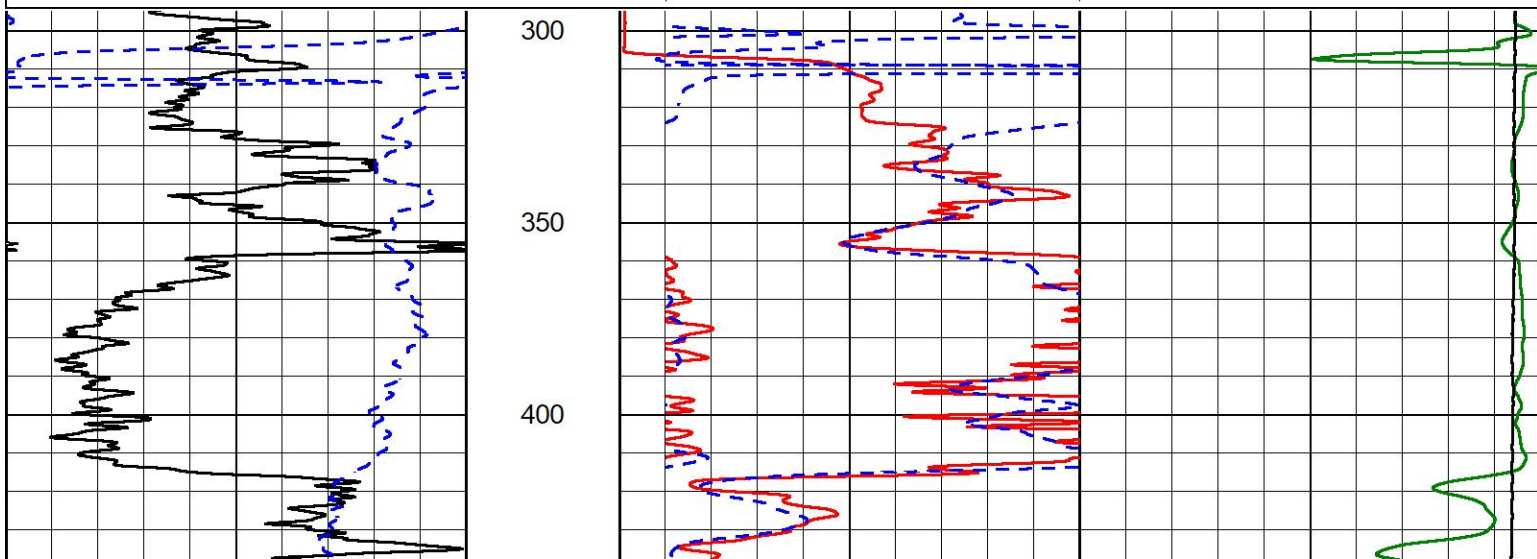


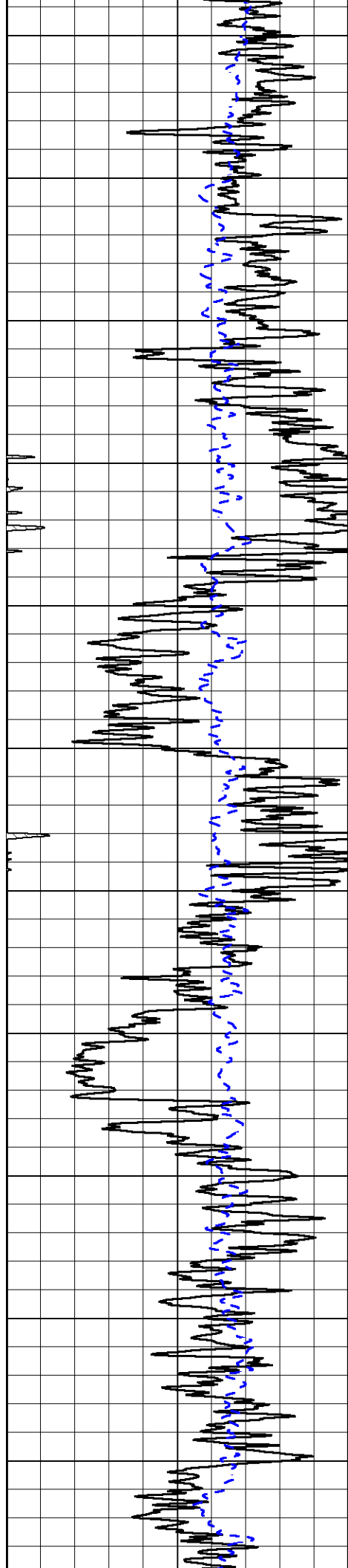
2" SCALE RESISTIVITY

MAIN PASS

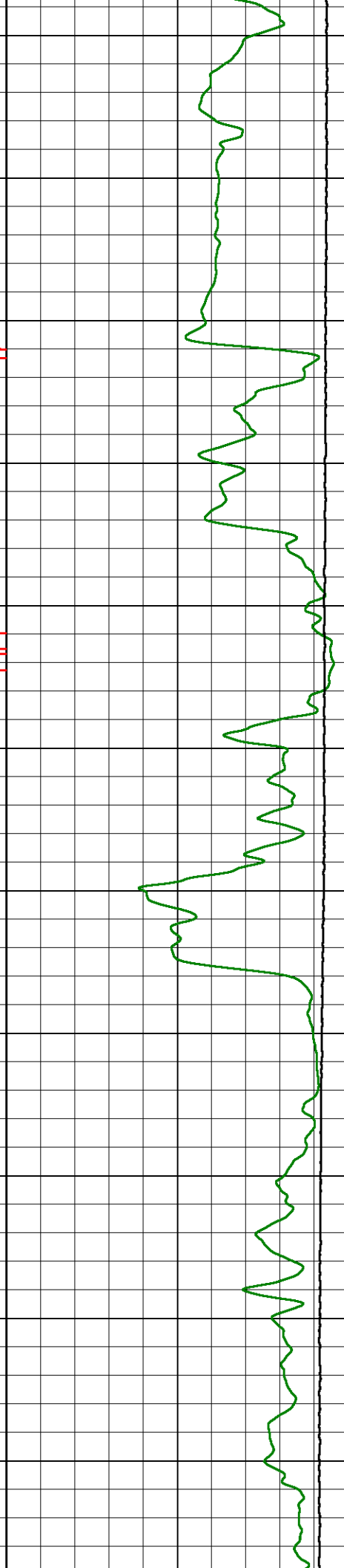
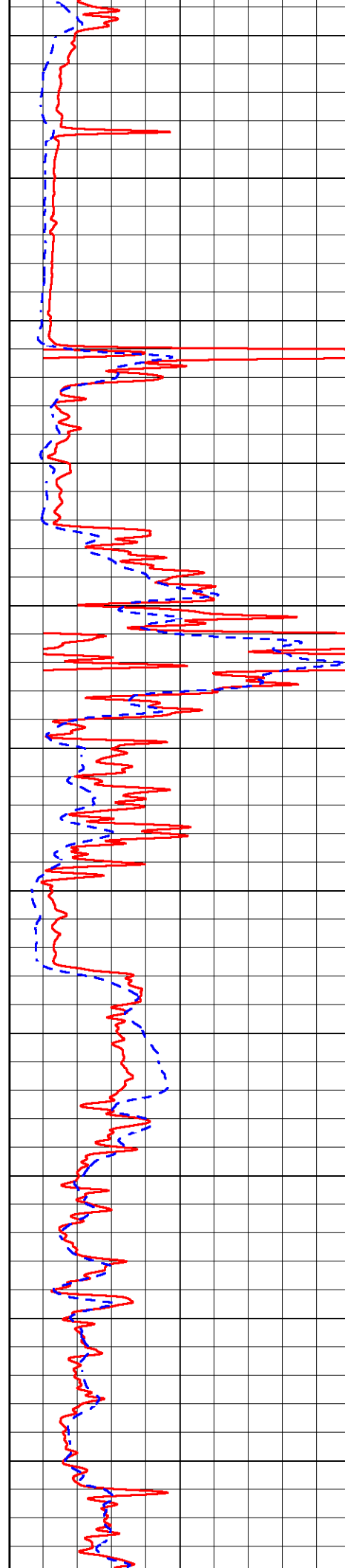
Database File fossil_prairie land #1.db
Dataset Pathname Stack/pass3.2
Presentation Format _dil2in
Dataset Creation Fri Jun 30 05:09:44 2023
Charted by Depth in Feet scaled 1:600

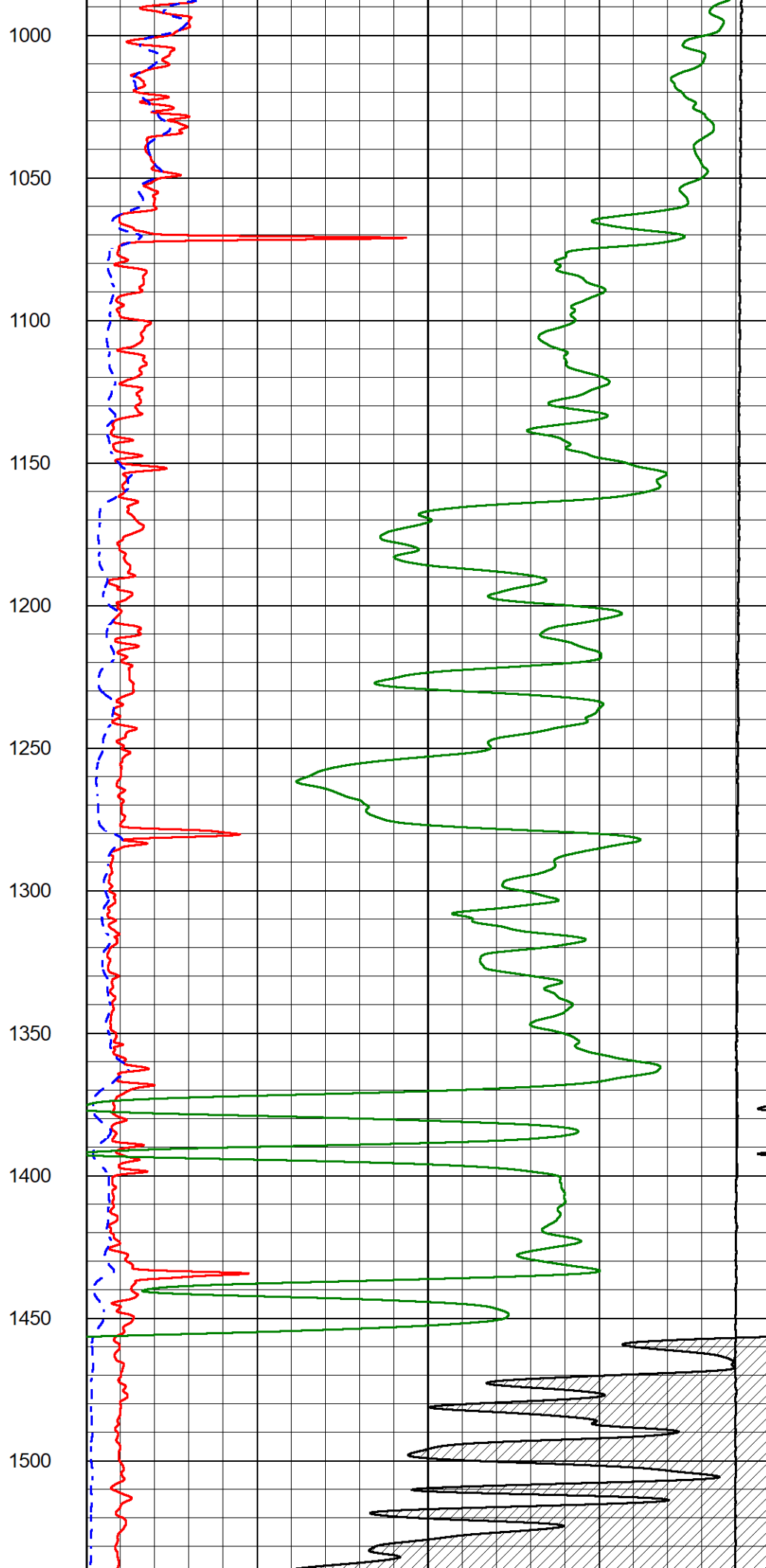
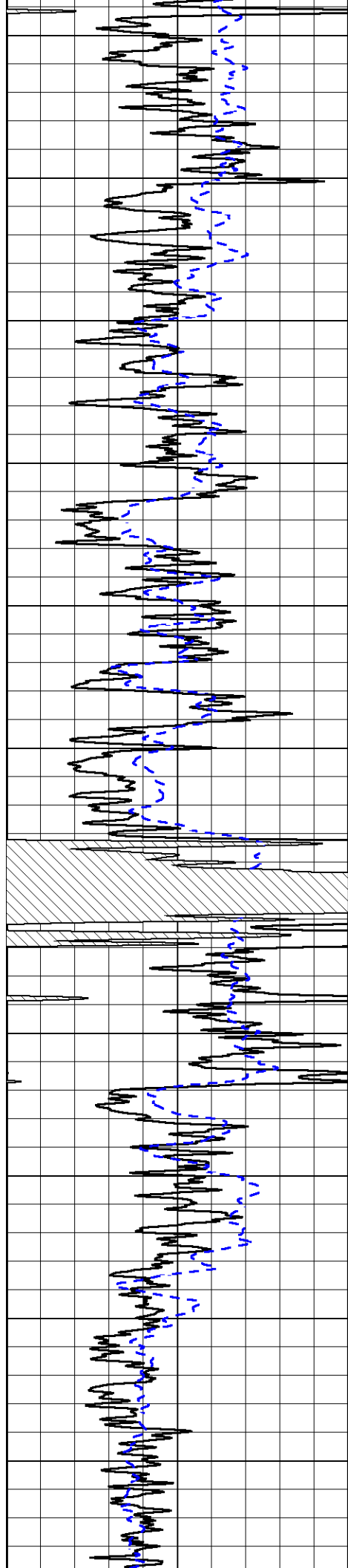
0	Gamma Ray (GAPI)	150	1000	Conductivity (mmho/m)	0
-200	SP (mV)	0	15000	Line Tension (lb)	0
			0	Shallow Resistivity (Ohm-m)	50
			0	Deep Resistivity (Ohm-m)	50
			Shallow Resistivity		
			50	(Ohm-m)	200
			50	Deep Resistivity (Ohm-m)	200

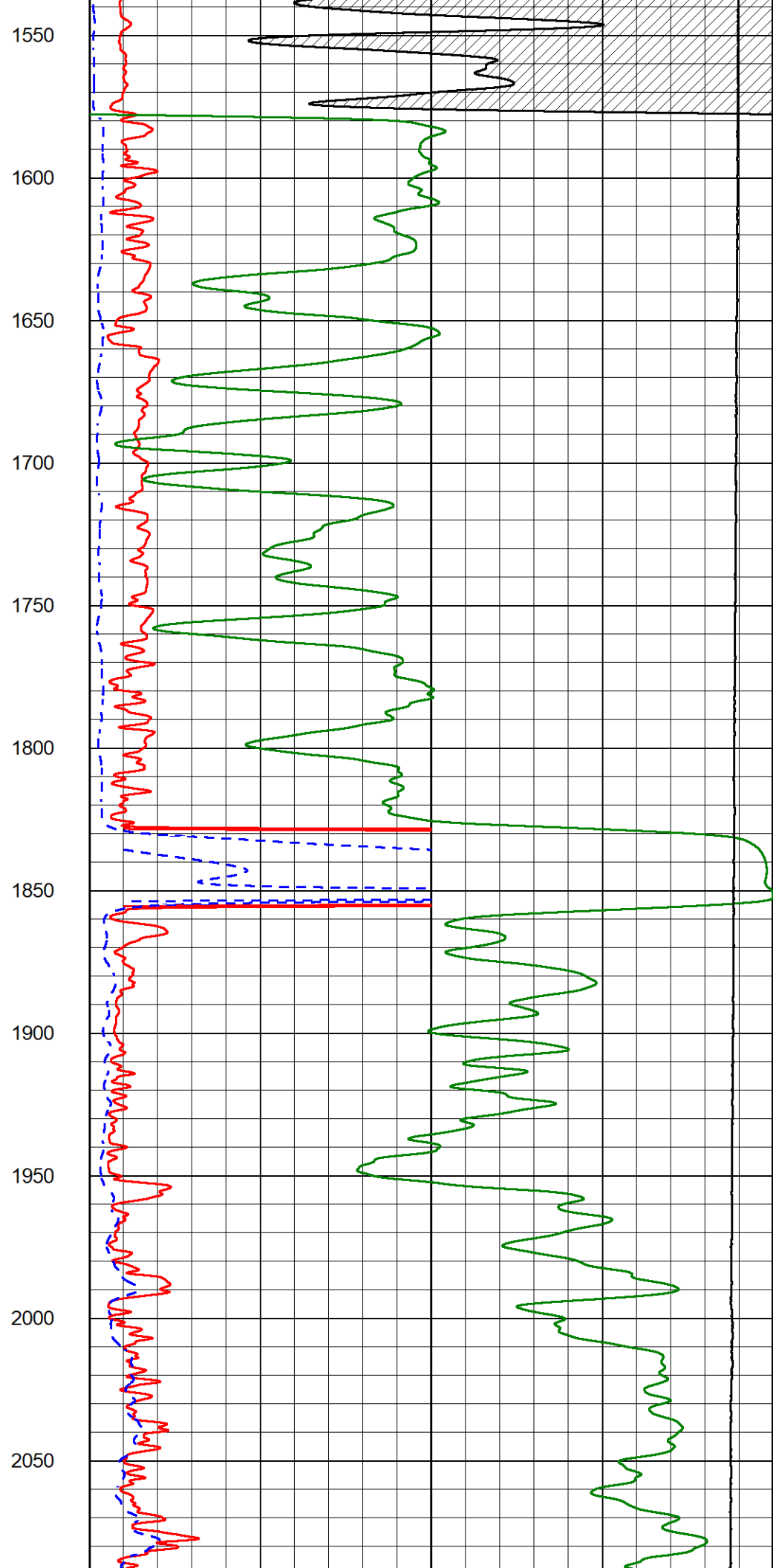
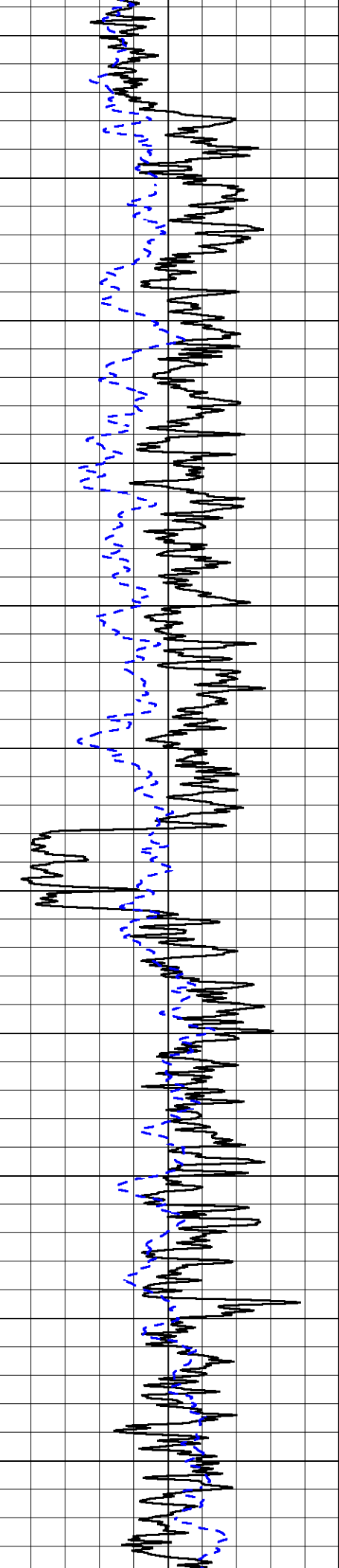


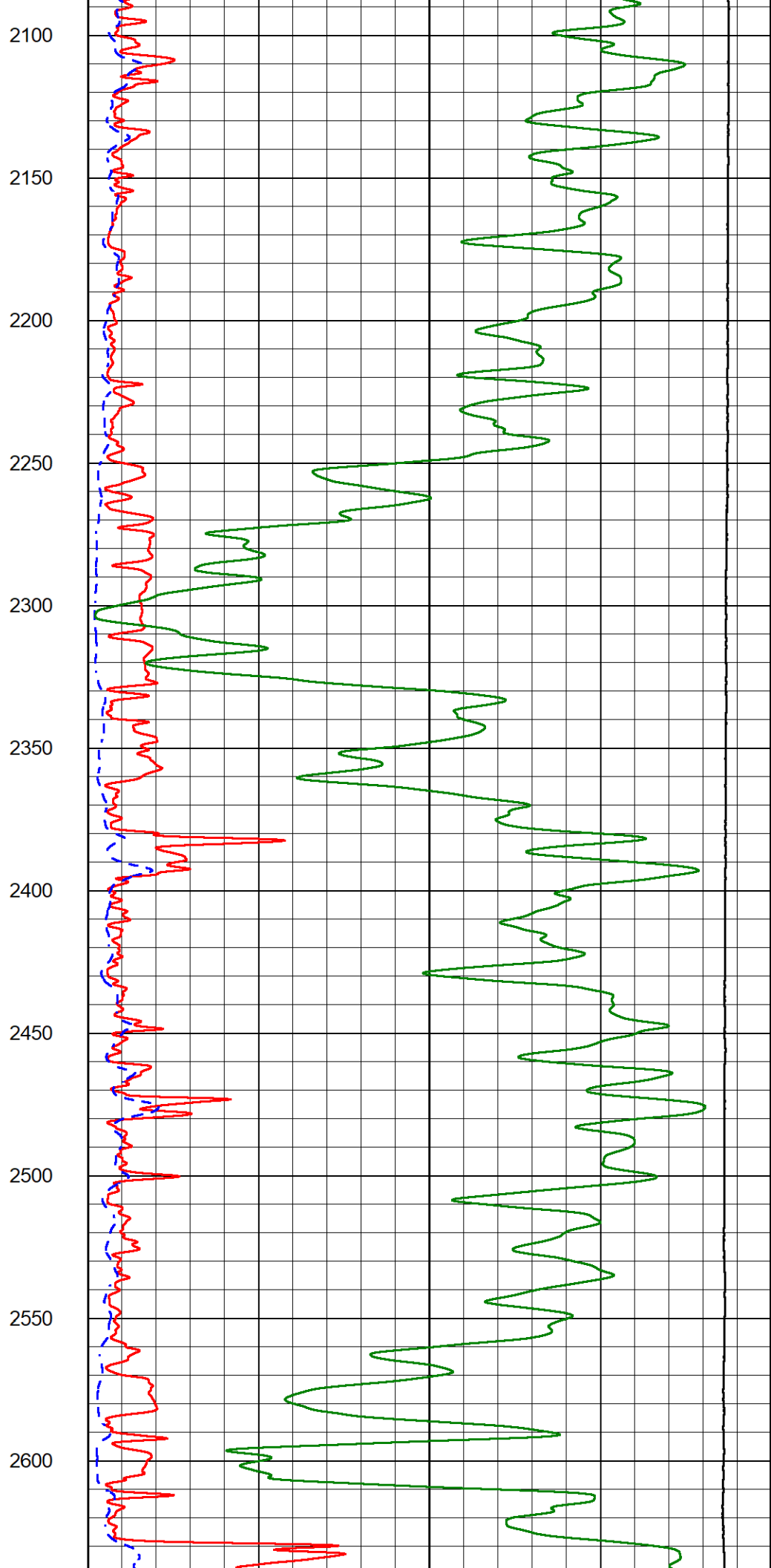
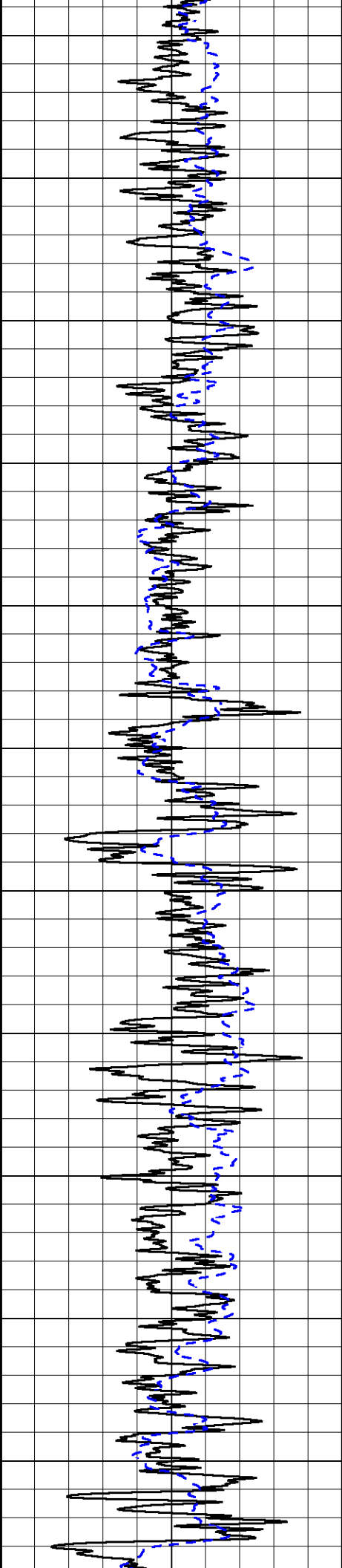


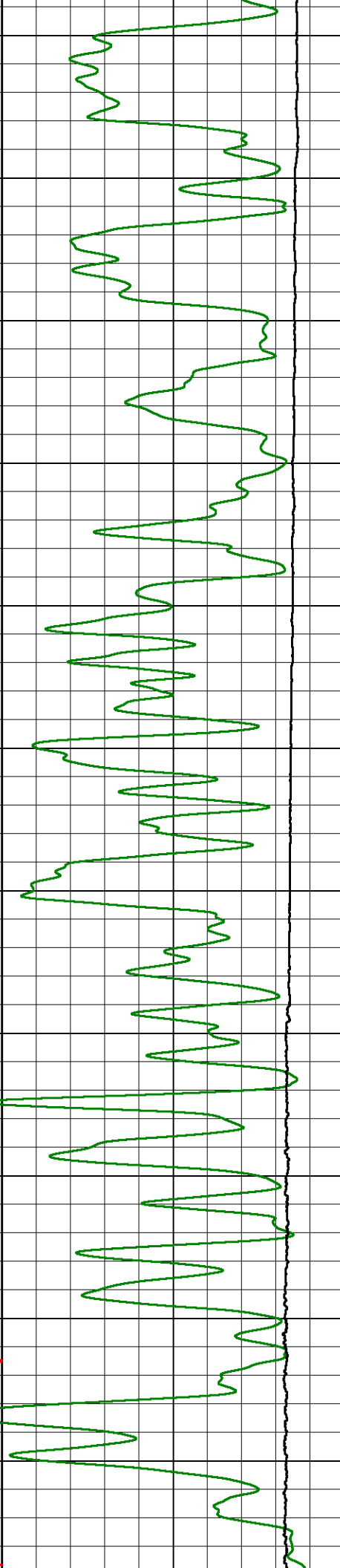
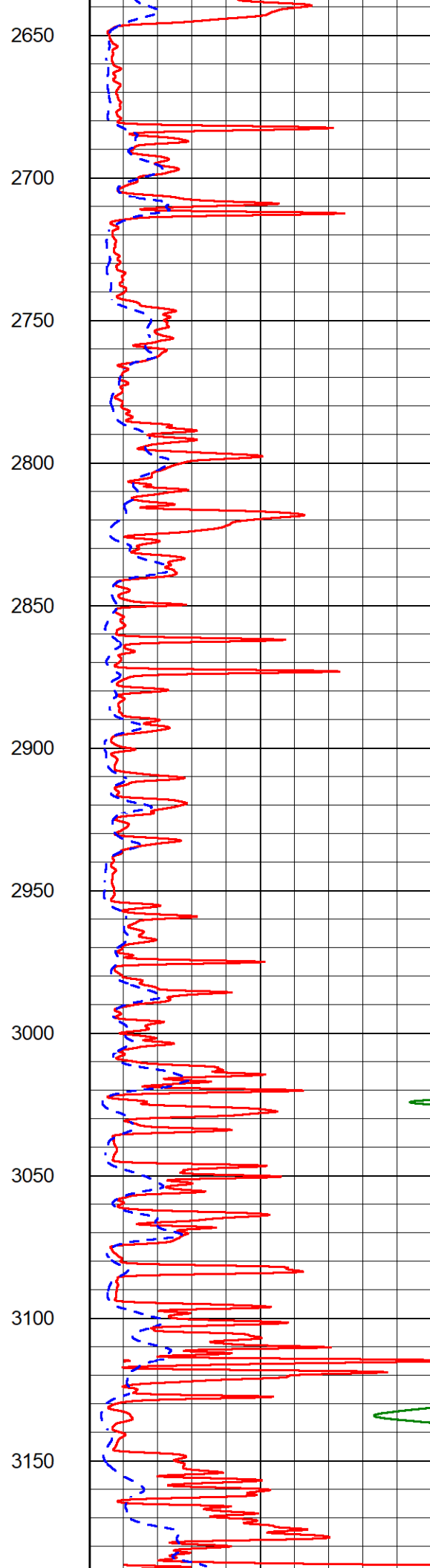
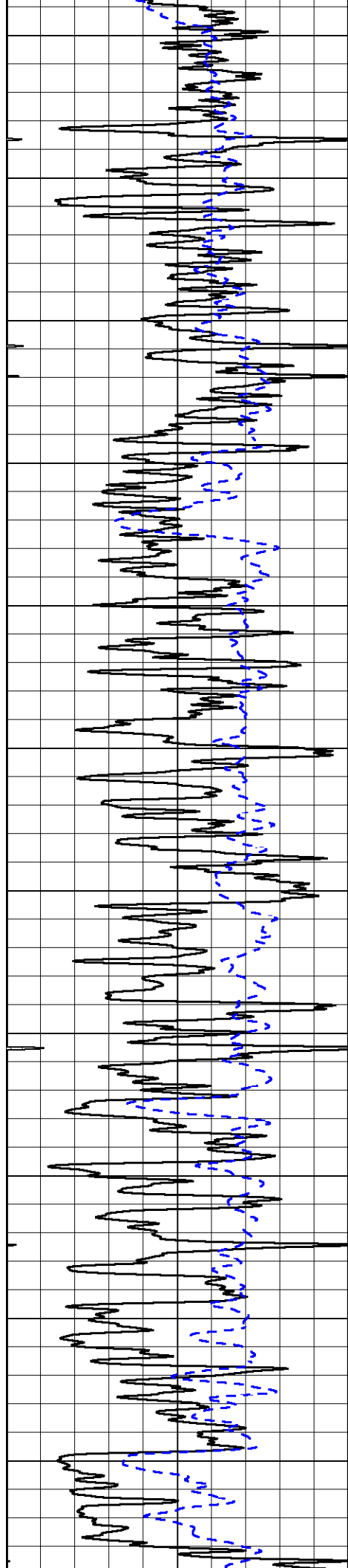
450
500
550
600
650
700
750
800
850
900
950

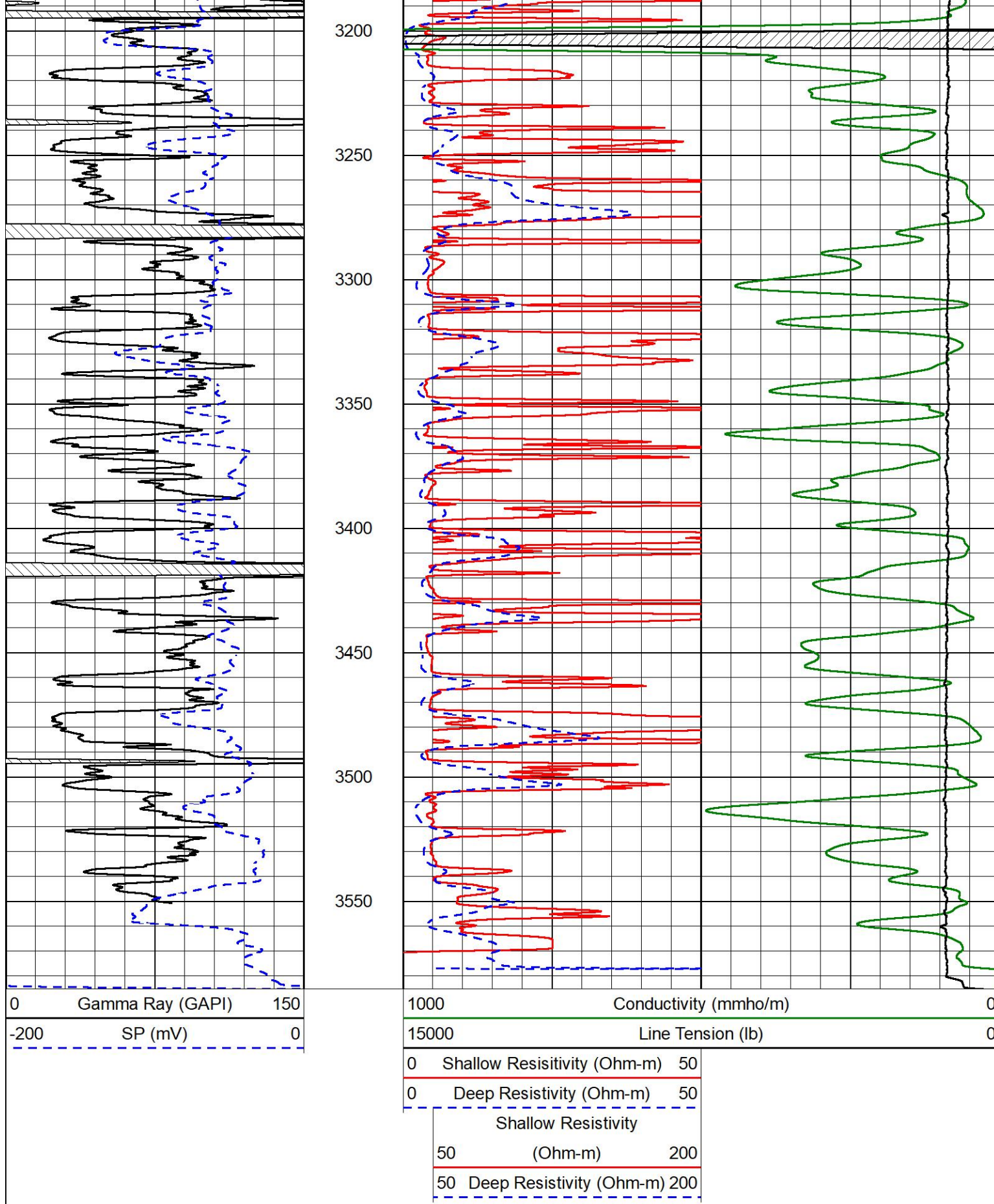










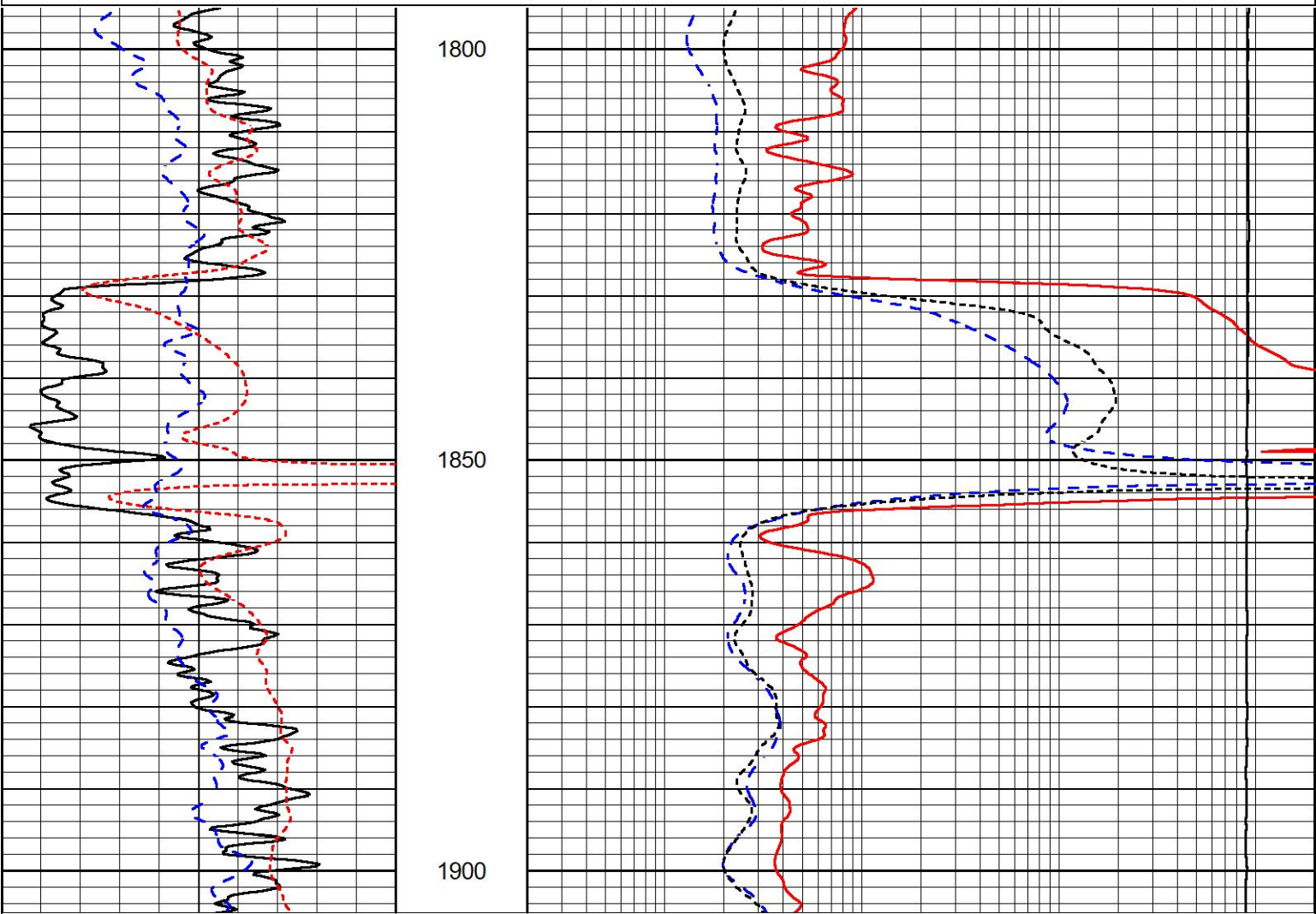


ANHYDRITE SECTION

MAIN PASS

Database File	fossil_prairie land #1.db
Dataset Pathname	Stack/pass3.4
Presentation Format	_dil
Dataset Creation	Fri Jun 30 04:52:59 2023
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-160	RXORT	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0



0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-160	RXORT	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0



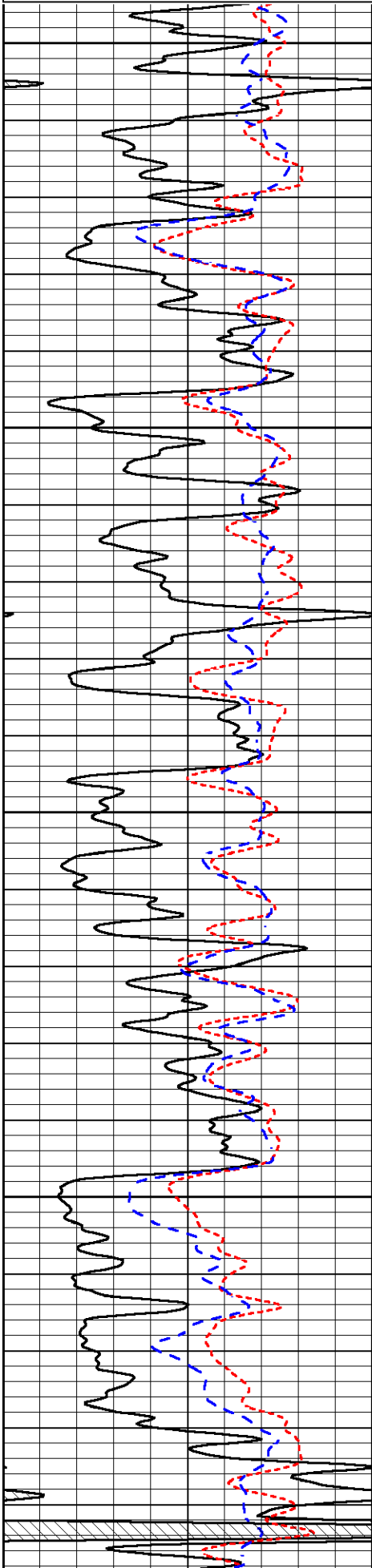
DETAIL SECTION

MAIN PASS

Database File	fossil_prairie land #1.db
Dataset Pathname	Stack/pass3.1
Presentation Format	_dil
Dataset Creation	Fri Jun 30 05:09:52 2023
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
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-160	RXORT	40
-200	SP (mV)	0



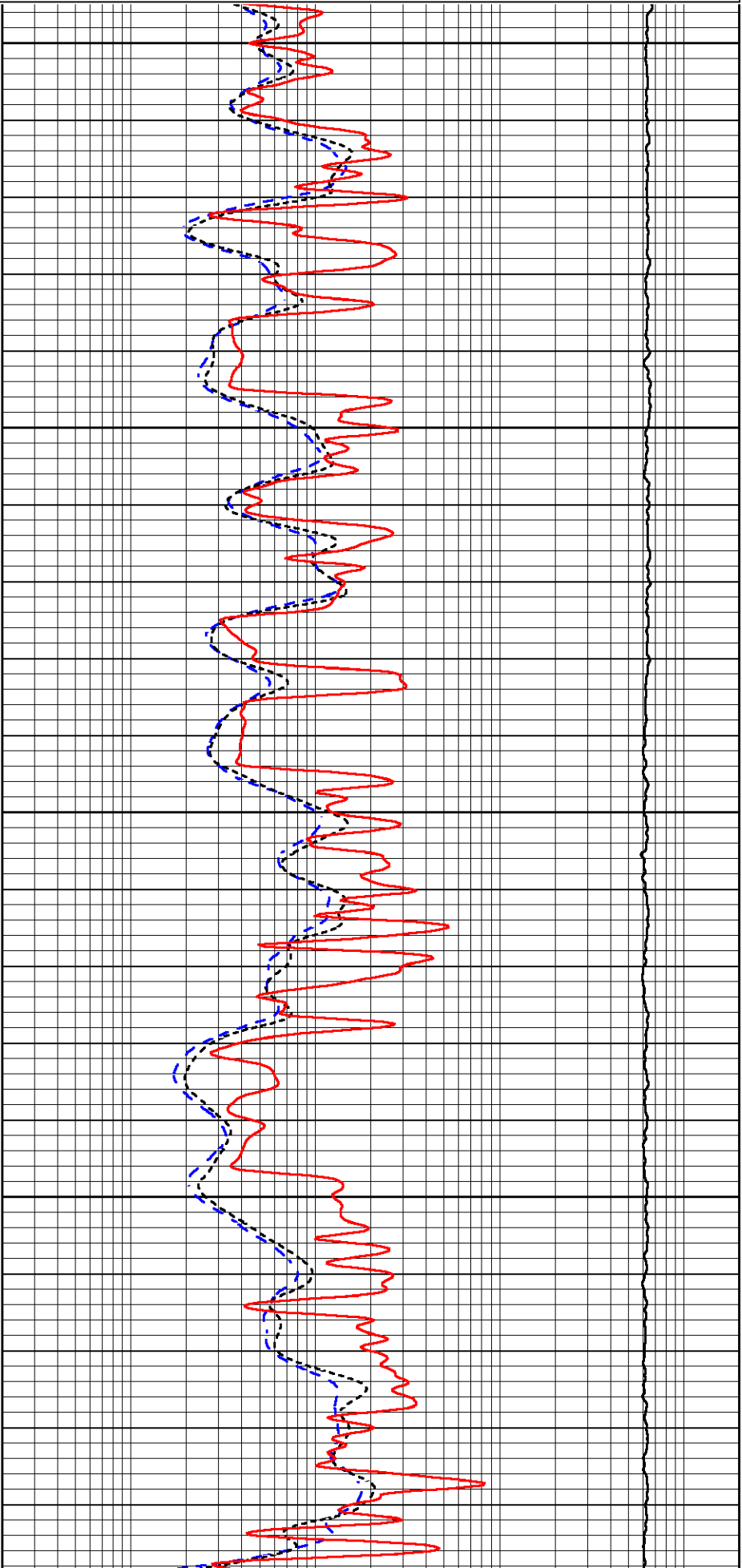
3000

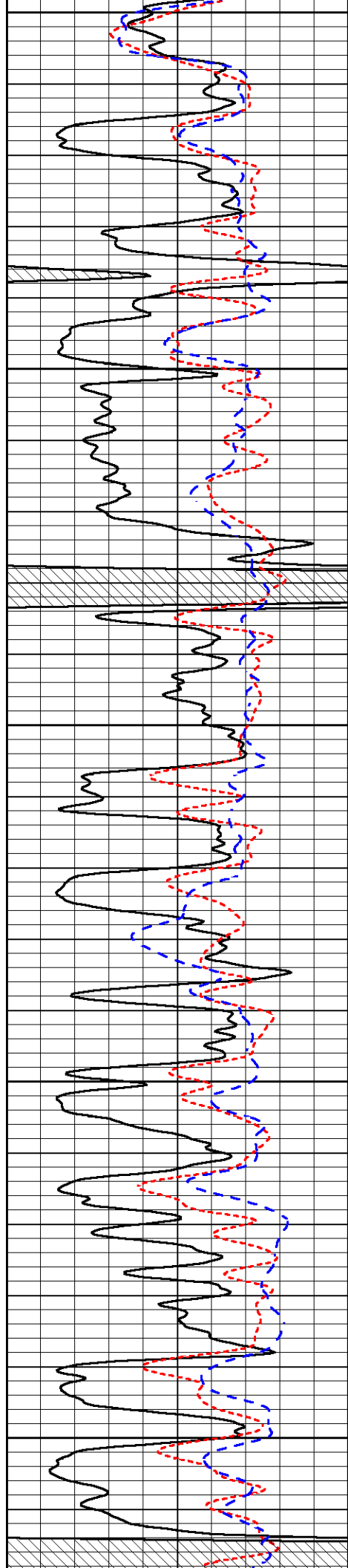
3050

3100

3150

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





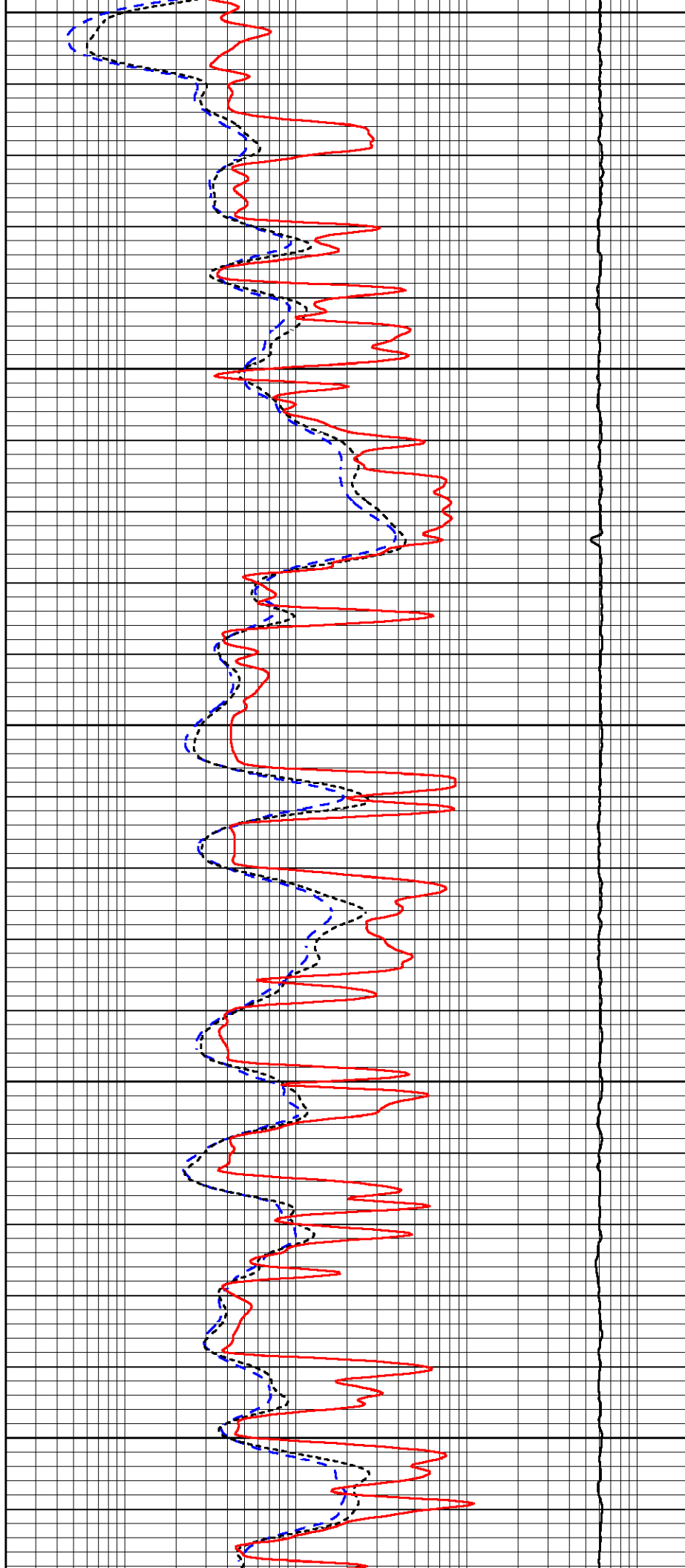
3200

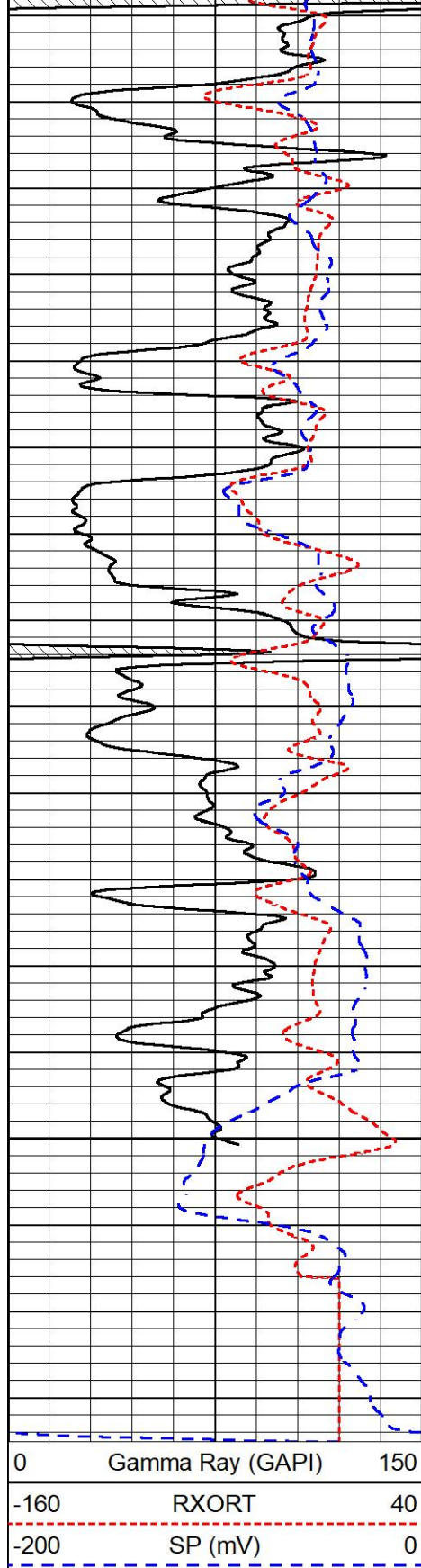
3250

3300

3350

3400

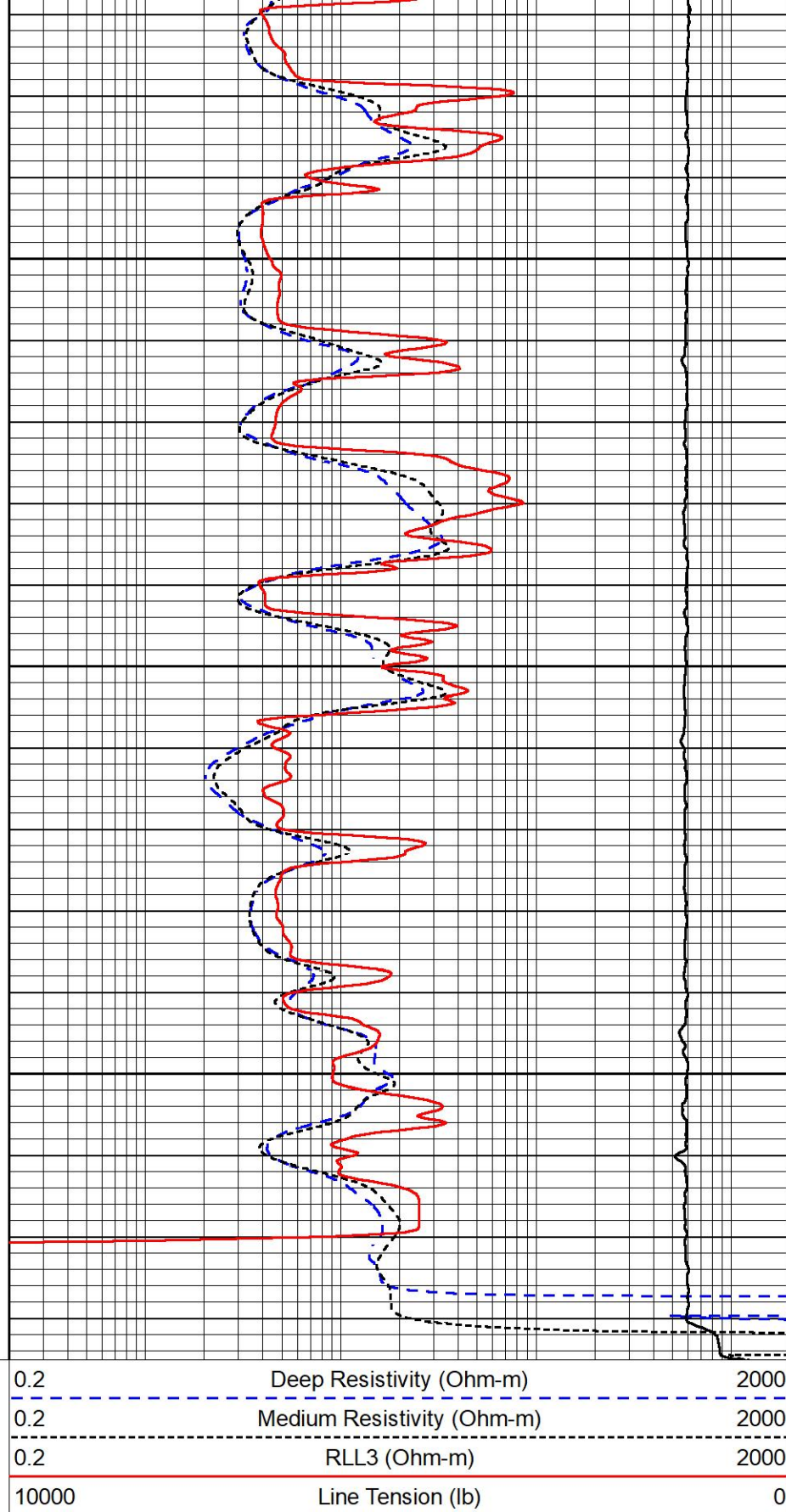




3450

3500

3550

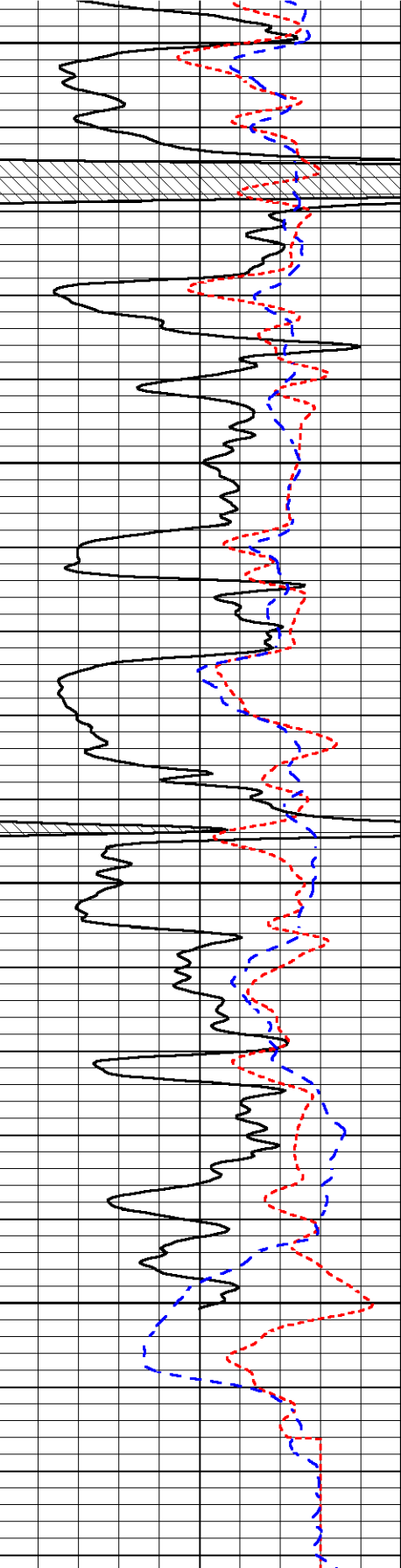


REPEAT SECTION

REPEAT PASS

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

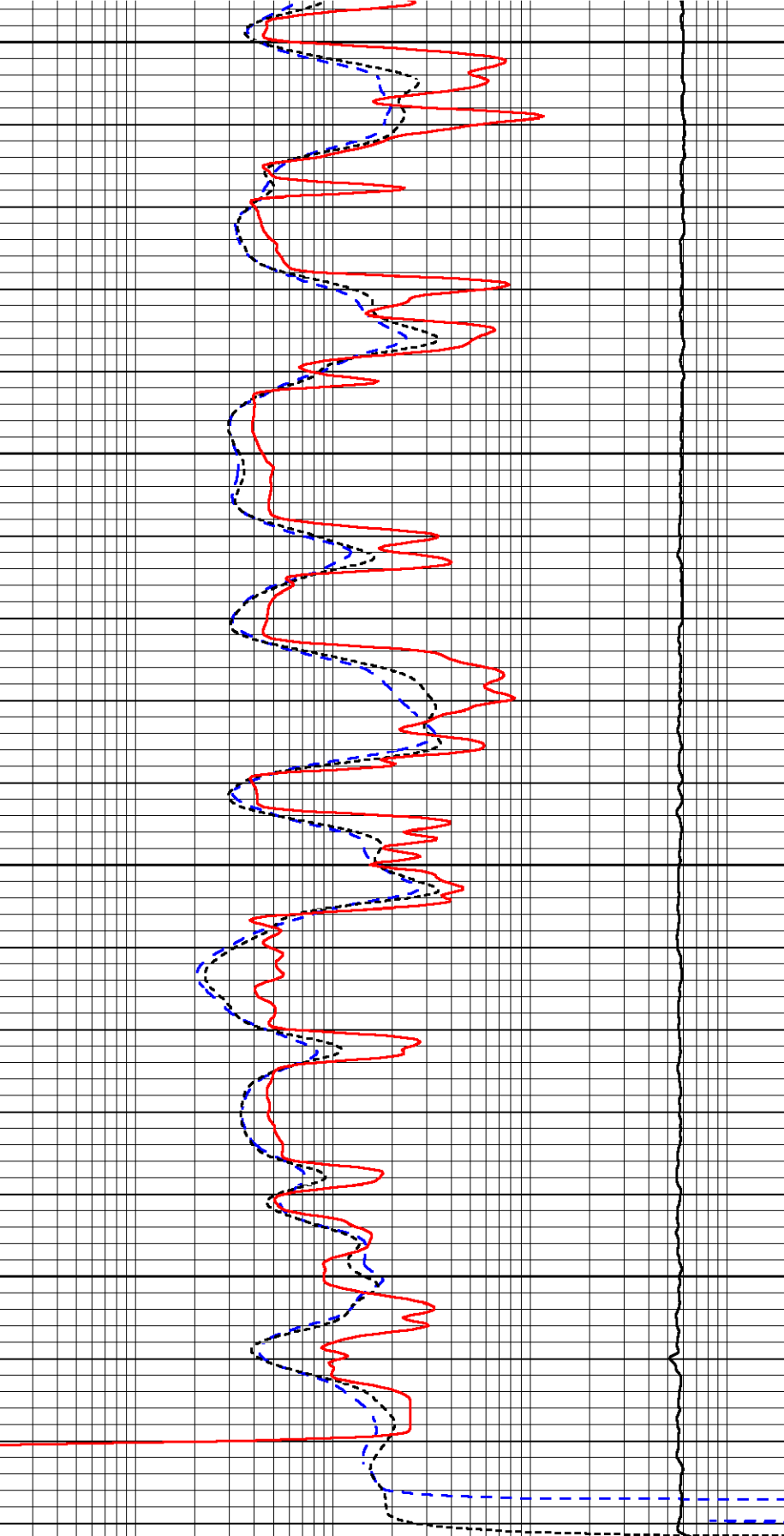


3400

3450

3500

3550



0	Gamma Ray (GAPI)	150	0.2	Deep Resistivity (Ohm-m)	2000
-160	RXORT	40	0.2	Medium Resistivity (Ohm-m)	2000
-200	SP (mV)	0	0.2	RLL3 (Ohm-m)	2000
			10000	Line Tension (lb)	0

Calibration Report									
Database File	fossil_prairie land #1.db								
Dataset Pathname	Stack/pass3.1								
Dataset Creation	Fri Jun 30 05:09:52 2023								
Dual Induction Calibration Report									
Serial-Model:					502 HT-M&W				
Surface Cal Performed:									
Readings			References				Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	83.639	487.104		0.000	255.800	mmho/m	0.454	-35.000	
Medium	113.335	1585.690		0.000	255.800	mmho/m	0.340	-14.000	
Compensated Density Calibration Report									
Serial-Model:					307-11-M&W				
Source / Verifier:					20762B / 2ci				
Master Calibration Performed:					Tue Jun 6 21:48:20 2023				
Before Survey Verification Performed:									
After Survey Verification Performed:									
Master Calibration									
		Density		Far Detector		Near Detector			
Magnesium		1.755	g/cc		3689.70		4749.82	cps	
Aluminum		2.590	g/cc		822.19		3221.38	cps	
Spine Angle = 75.50					Density/Spine Ratio = 0.538				
		Size		Reading					
Small Ring		6.00	in		1.16				
Large Ring		18.00	in		1.01				
Compensated Neutron Calibration Report									
Serial Number:					207-MW				
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			
Gamma Ray Calibration Report									

Tool Model:
Performed:

M&W
Fri Dec 3 15:10:46 2021

Calibrator Value:

500.0

GAPI

Background Reading:

24.0

cps

Calibrator Reading:

637.0

cps

Sensitivity:

0.5500

GAPI/cps



MIDWEST WIRELINE

Company

Fossil Energy LLC

Well

Prairie Land #1

Field

County

Norton

State

Kansas