



MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Fossil Resources LLC			
Well	Cool Creek #1-13		
Field	Massier East		
County	Trego		
State	Kansas		
Company Fossil Resources LLC			
Well	Cool Creek #1-13		
Field	Massier East		
County	Trego		
State	Kansas		
Location:	API #: 15-195-23134-00-00		
2120 FSL & 1250 FEL			
SEC 13 TWP 14S RGE 22W	CNL/CDL MEL		
Permanent Datum	Ground Level	Elevation	2167
Log Measured From	Kelly Bushing	K.B.	2175
Drilling Measured From	Kelly Bushing	D.F.	2167
Date 3/31/2022			
Run Number	One		
Depth Driller	4120		
Depth Logger	4124		
Bottom Logged Interval	4123		
Top Log Interval	200		
Casing Driller	8.625 @ 220		
Casing Logger	218		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	4100		
Density / Viscosity	9.0 52		
pH / Fluid Loss	11.0 7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.55 @ 71		
Rmt @ Meas. Temp	.41 @ 71		
Rmc @ Meas. Temp	.74 @ 71		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.33 @ 117		
Operating Rig Time	2 Hours		
Max Rec. Temp. F	117		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Lyle Herrman		

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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.

Ogallah Kansas Exit I70
South to Curve, 1 East, 3 South, East 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: J. Henrickson
Operator:
Operator:
Operator:

This Log Record Was Witnessed By

Primary Witness: Lyle Herrman
Secondary Witness:
Secondary Witness:
Secondary Witness:

Top - Bottom

A	BOREID	BOTTEMP	CASEOD	CASETHCK	FLUIDDEN	M	MATRXDEN
1	in 7.875	degF 117	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 465	degF 55	Off	ft 4124

Variable Description

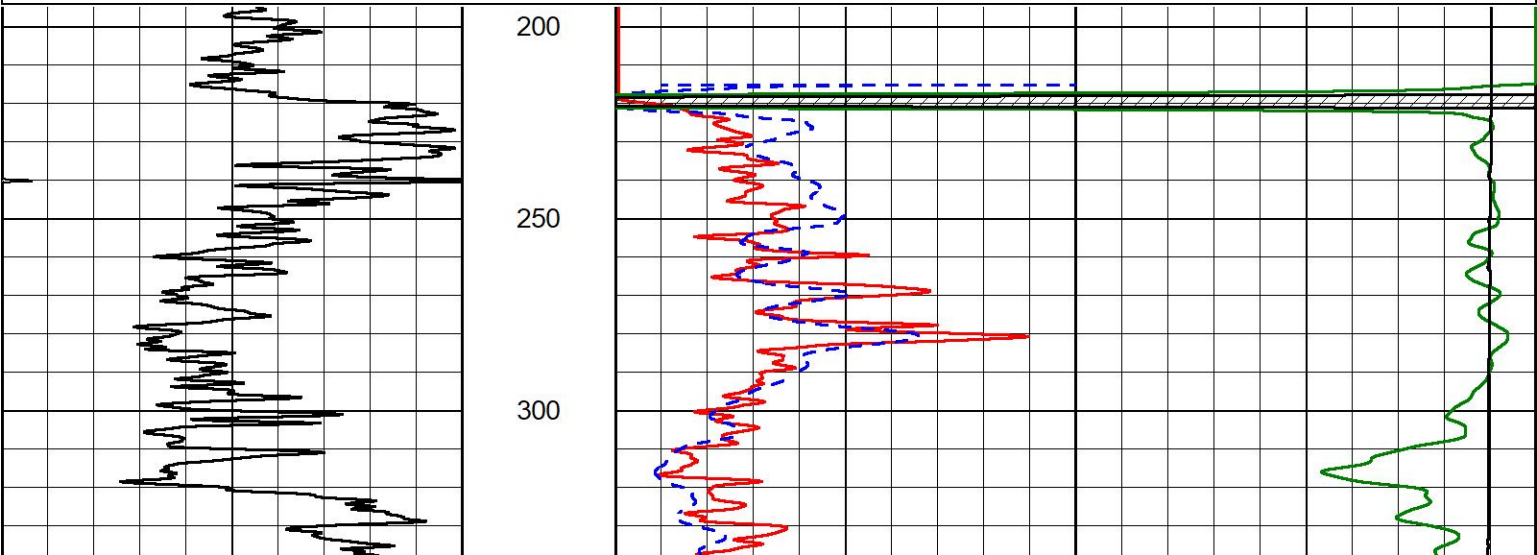
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density

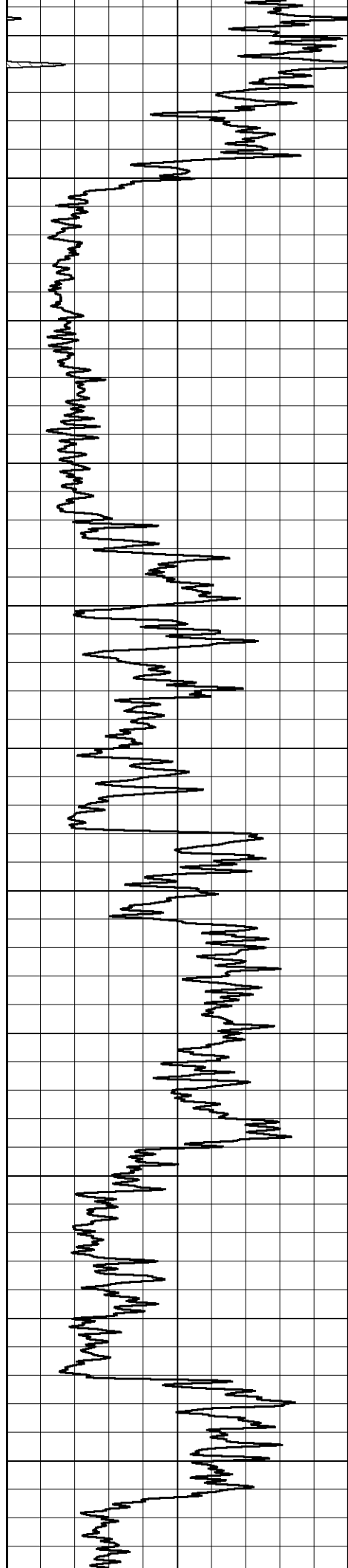
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)
GR	40.33		GR-M&W (103)	3.00	3.50	50.00
CNLSC	37.23		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.48					
LSD DCAL SSD	28.18		CDL-M&W (303-03)	8.50	4.00	250.00
	28.17					
	27.68		ML-PSI STKBL ML (402)	7.58	4.00	65.00
MCAL	19.58					
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					

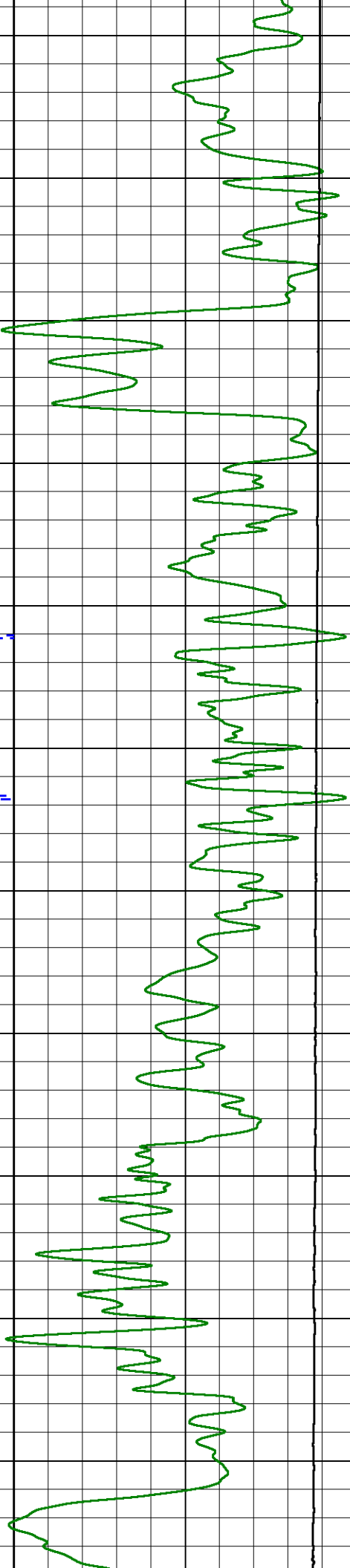
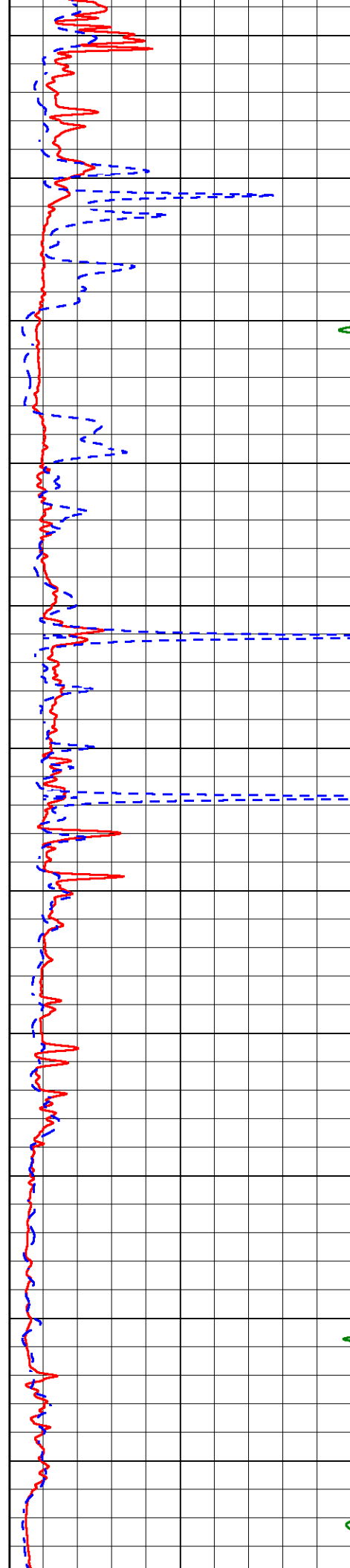
CILD	8.33			DIL-M&W (504 HT)		18.25	3.50	220.00	
CILM	4.50								
SP	0.20								
Dataset: fossil_resources_cool_creek_1_13.db: field/well/stackml/pass3.1 Total length: 42.33 ft Total weight: 685.00 lb O.D.: 4.00 in									

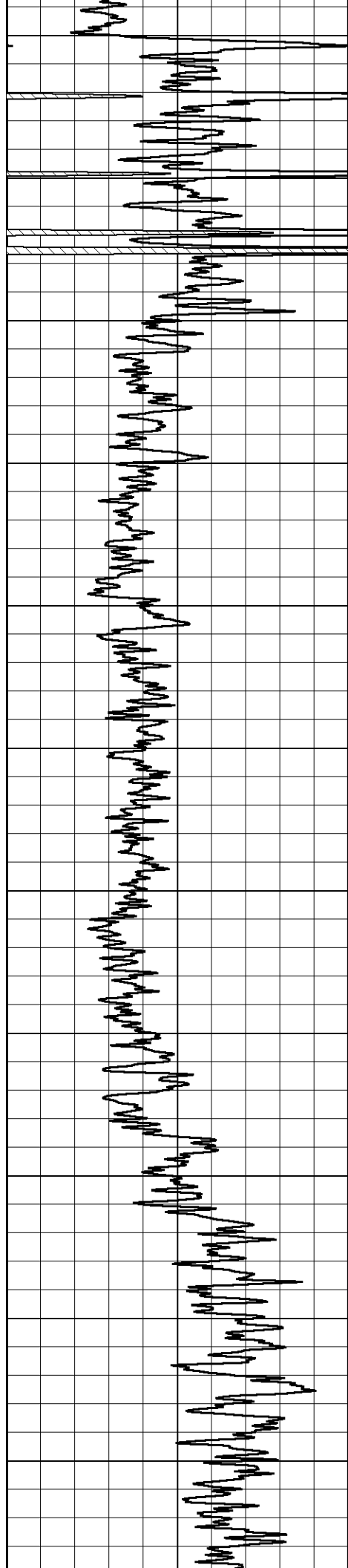
 MIDWEST WIRELINE		2" SCALE RESISTIVITY MAIN PASS	
Database File	fossil_resources_cool_creek_1_13.db		
Dataset Pathname	stackml/pass6.1		
Presentation Format	_dil2in		
Dataset Creation	Thu Mar 31 09:16:12 2022		
Charted by	Depth in Feet scaled 1:600		
0	Gamma Ray (GAPI)	150	
		1000	Conductivity (mmho/m)
		15000	Line Tension (lb)
		0	Shallow Resistivity (Ohm-m) 50
		0	Deep Resistivity (Ohm-m) 50
		Shallow Resistivity	
		50	(Ohm-m) 200
		50	Deep Resistivity (Ohm-m) 200





350
400
450
500
550
600
650
700
750
800
850





900

950

1000

1050

1100

1150

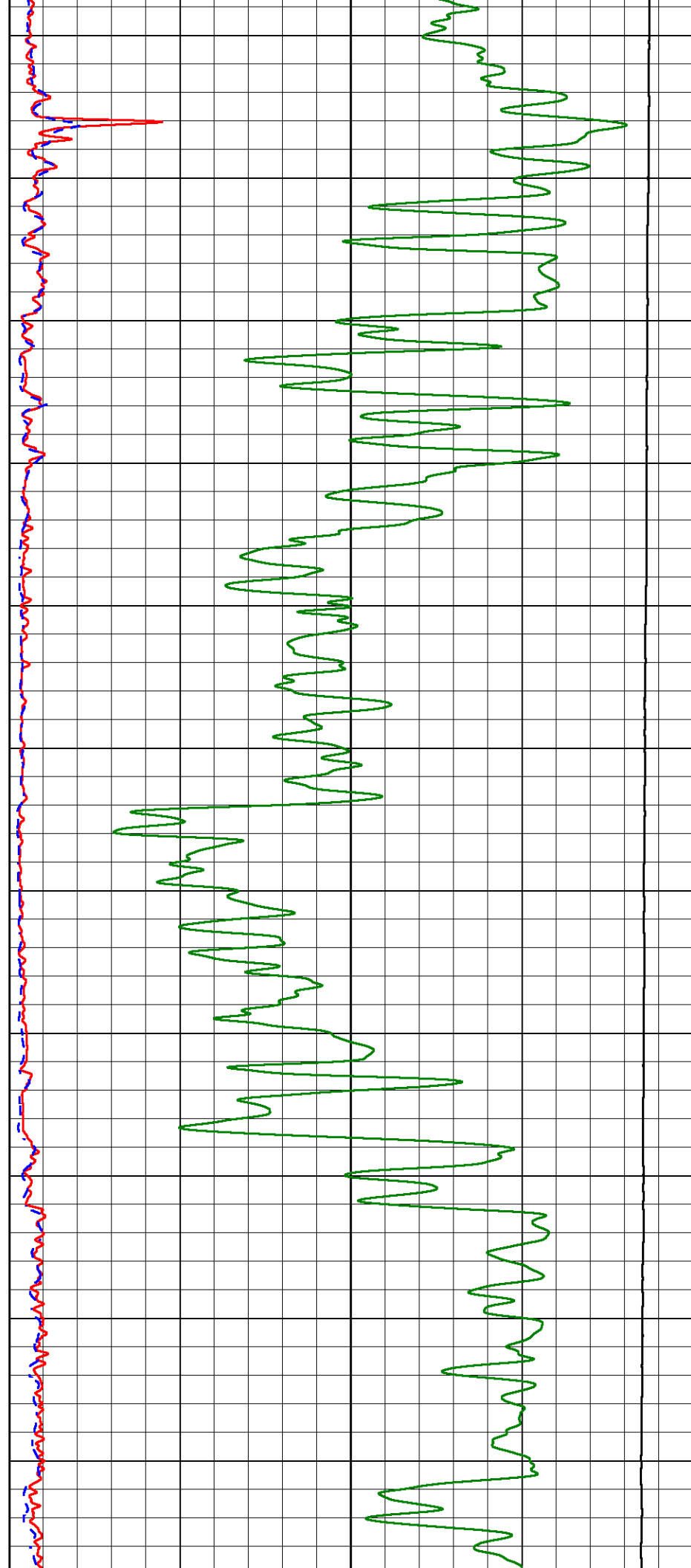
1200

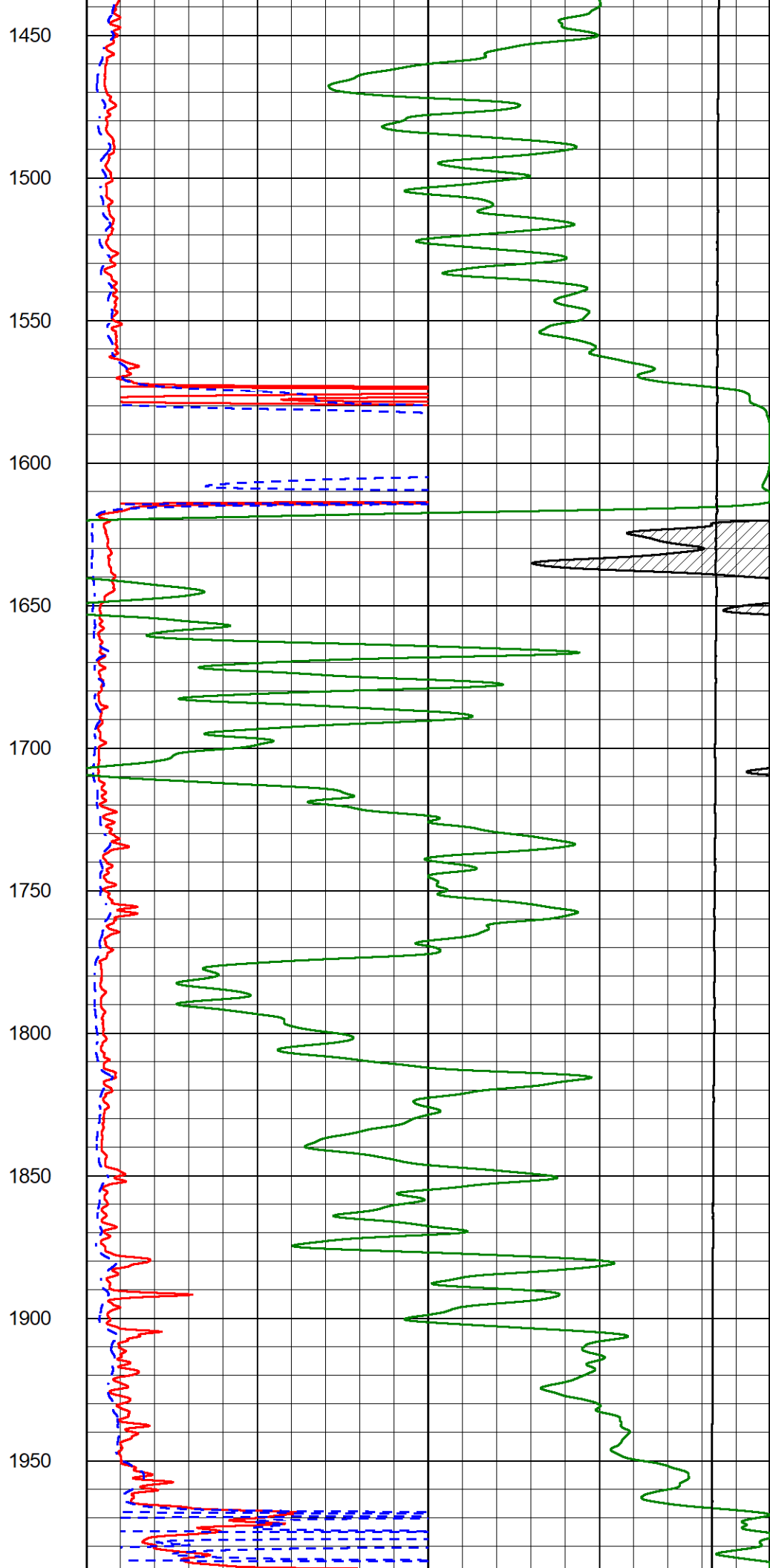
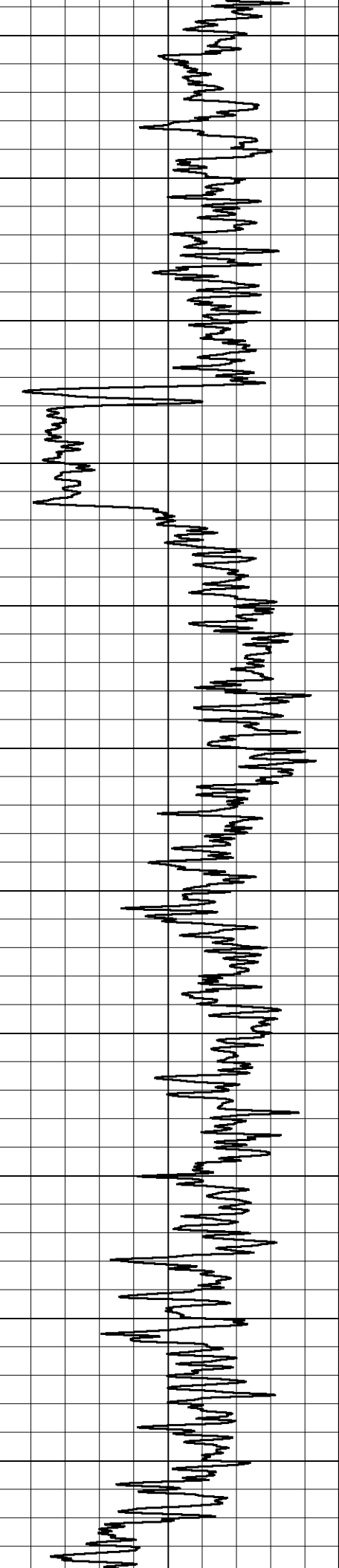
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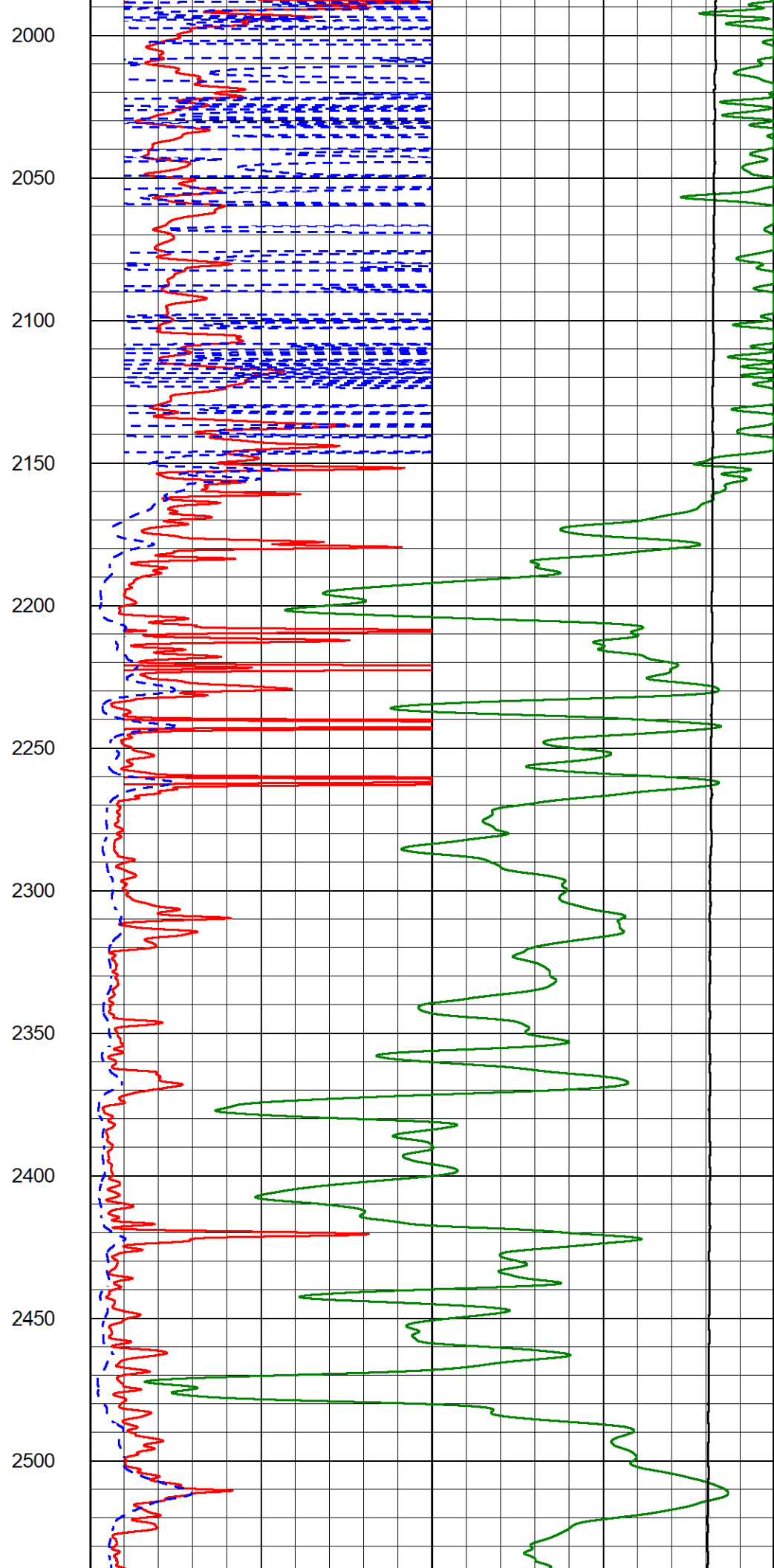
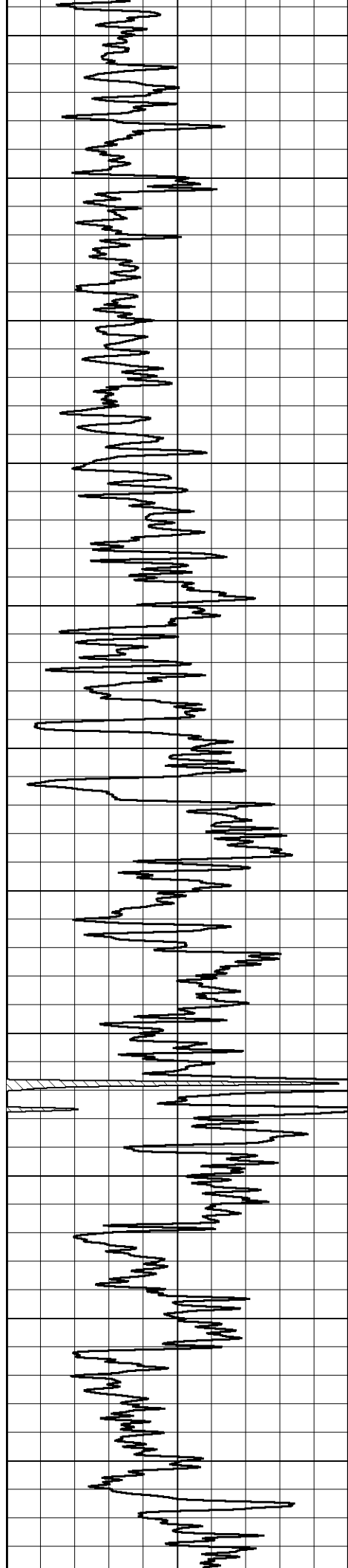
1300

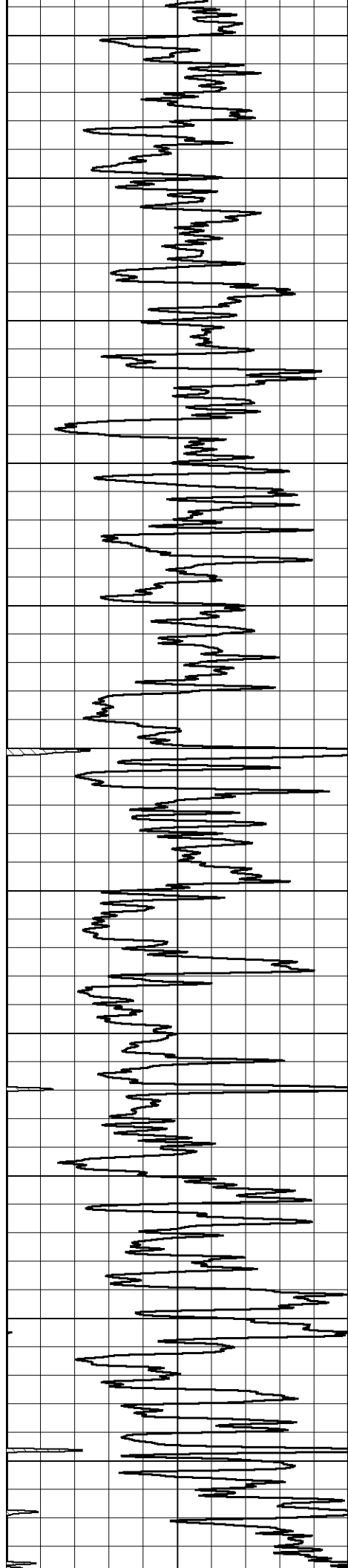
1350

1400









2550

2600

2650

2700

2750

2800

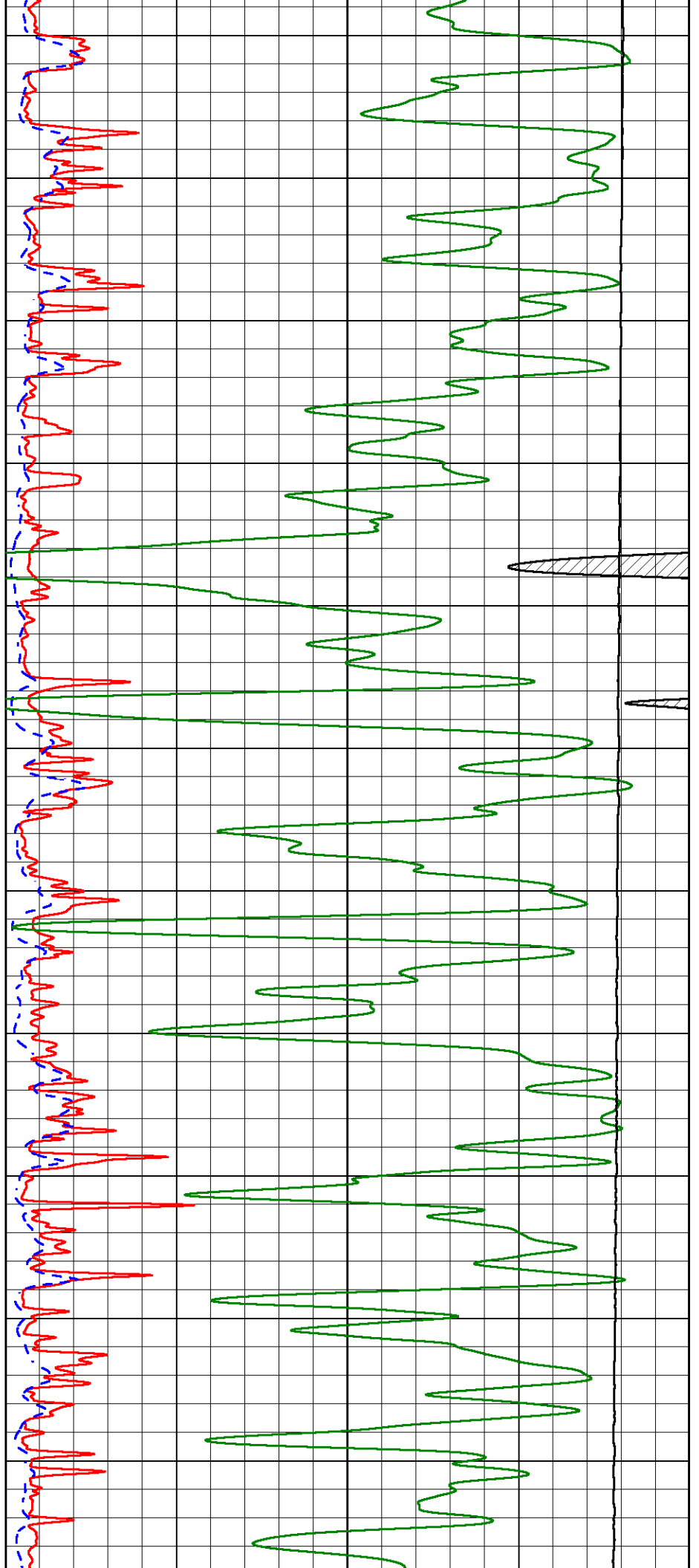
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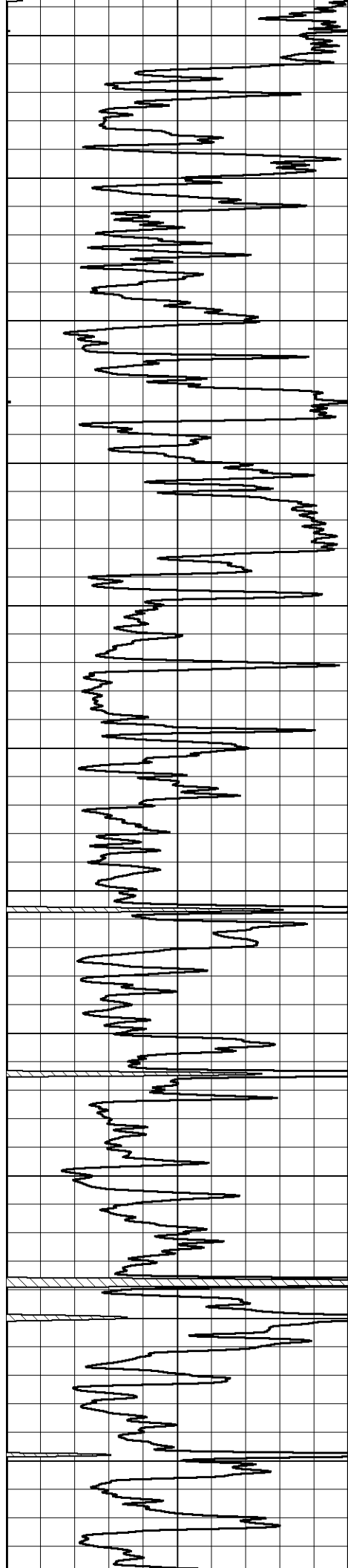
2900

2950

3000

3050





3100

3150

3200

3250

3300

3350

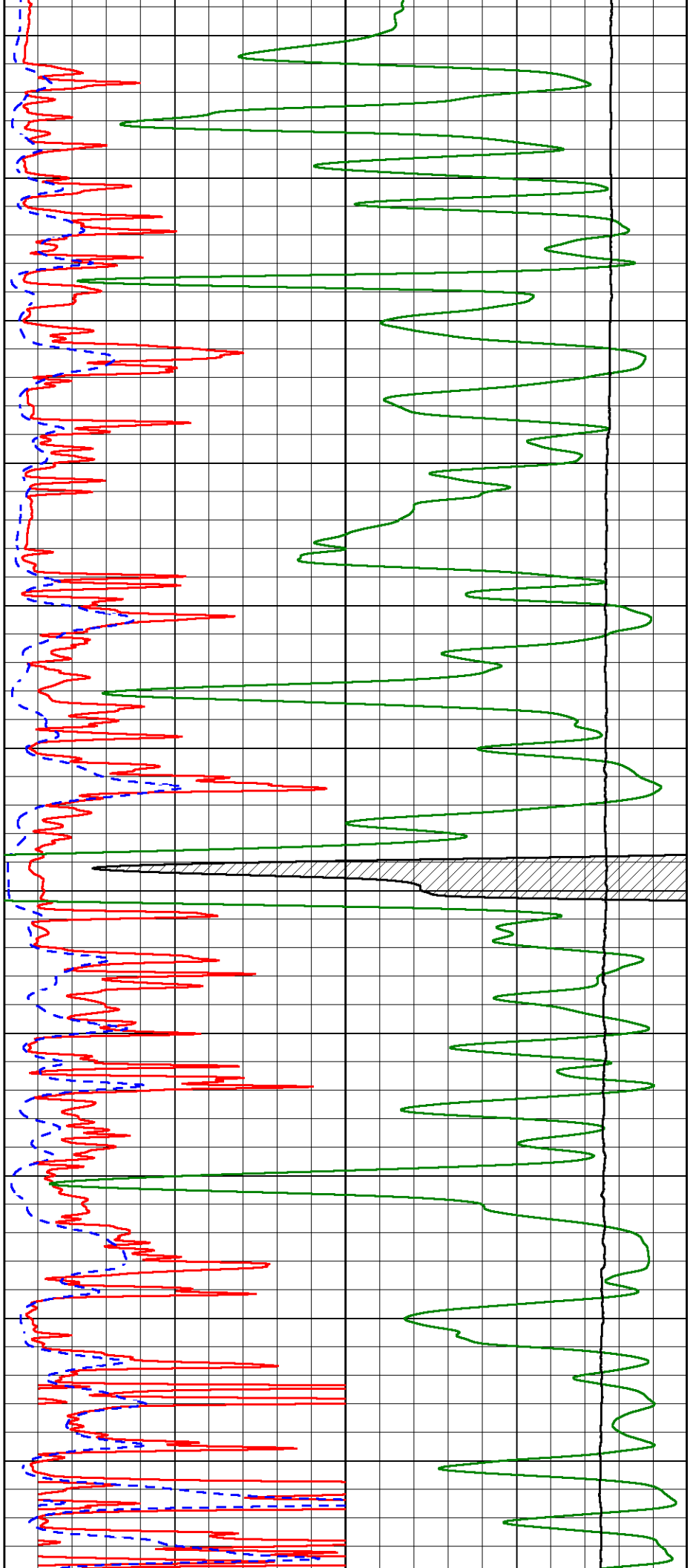
3400

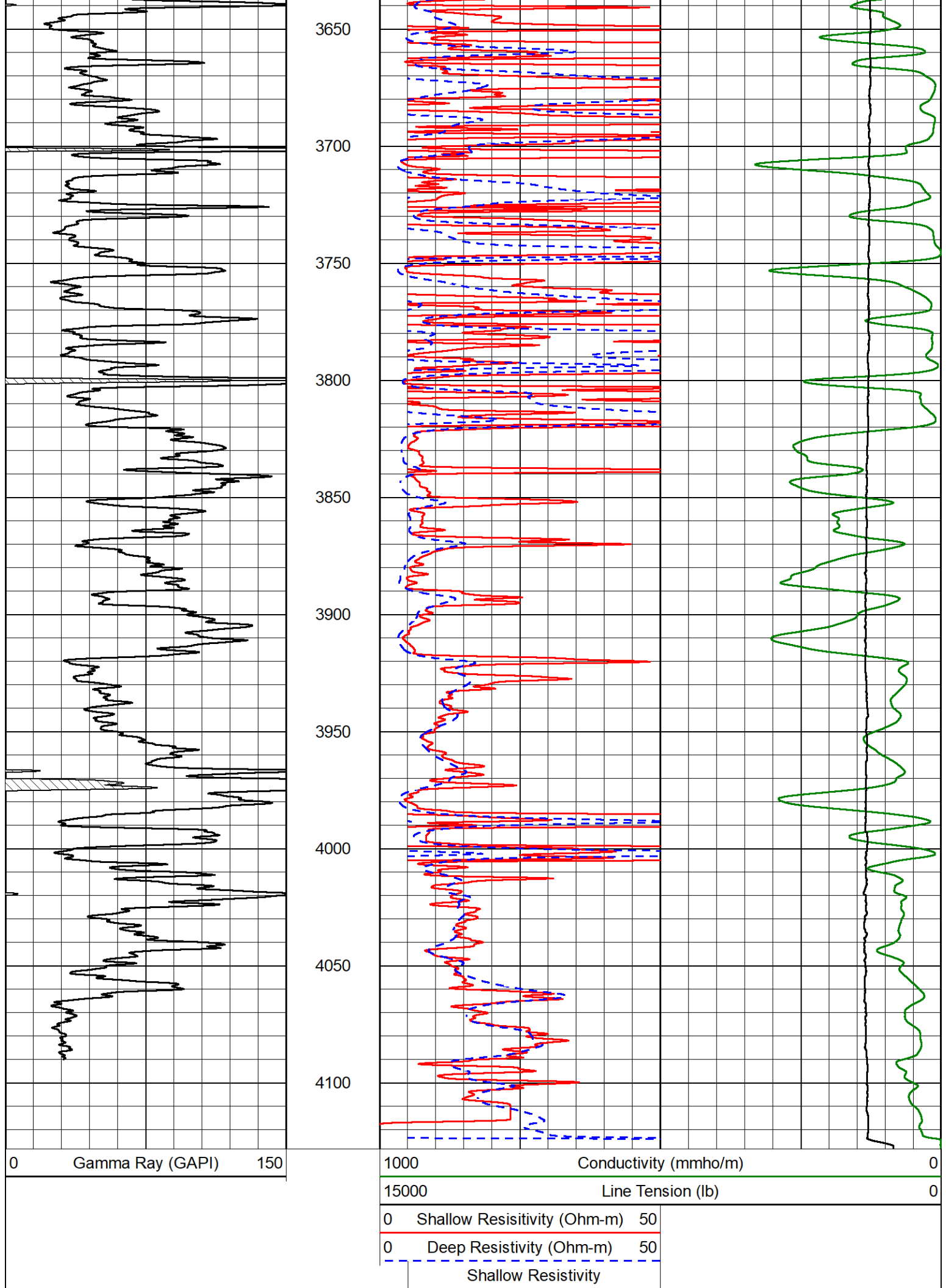
3450

3500

3550

3600





50	(Ohm-m)	200
50	Deep Resistivity (Ohm-m)	200



MIDWEST WIRELINE

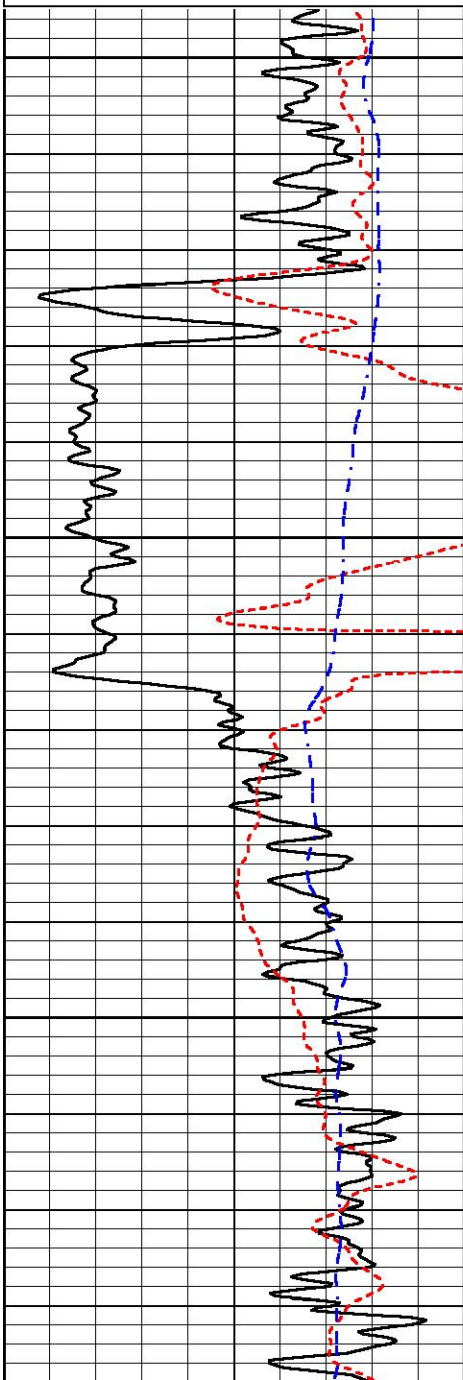
ANHYDRITE SECTION

MAIN PASS

Database File fossil_resources_cool_creek_1_13.db
Dataset Pathname stackml/pass5.1
Presentation Format _dil
Dataset Creation Thu Mar 31 08:58:43 2022
Charted by Depth in Feet scaled 1:240

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

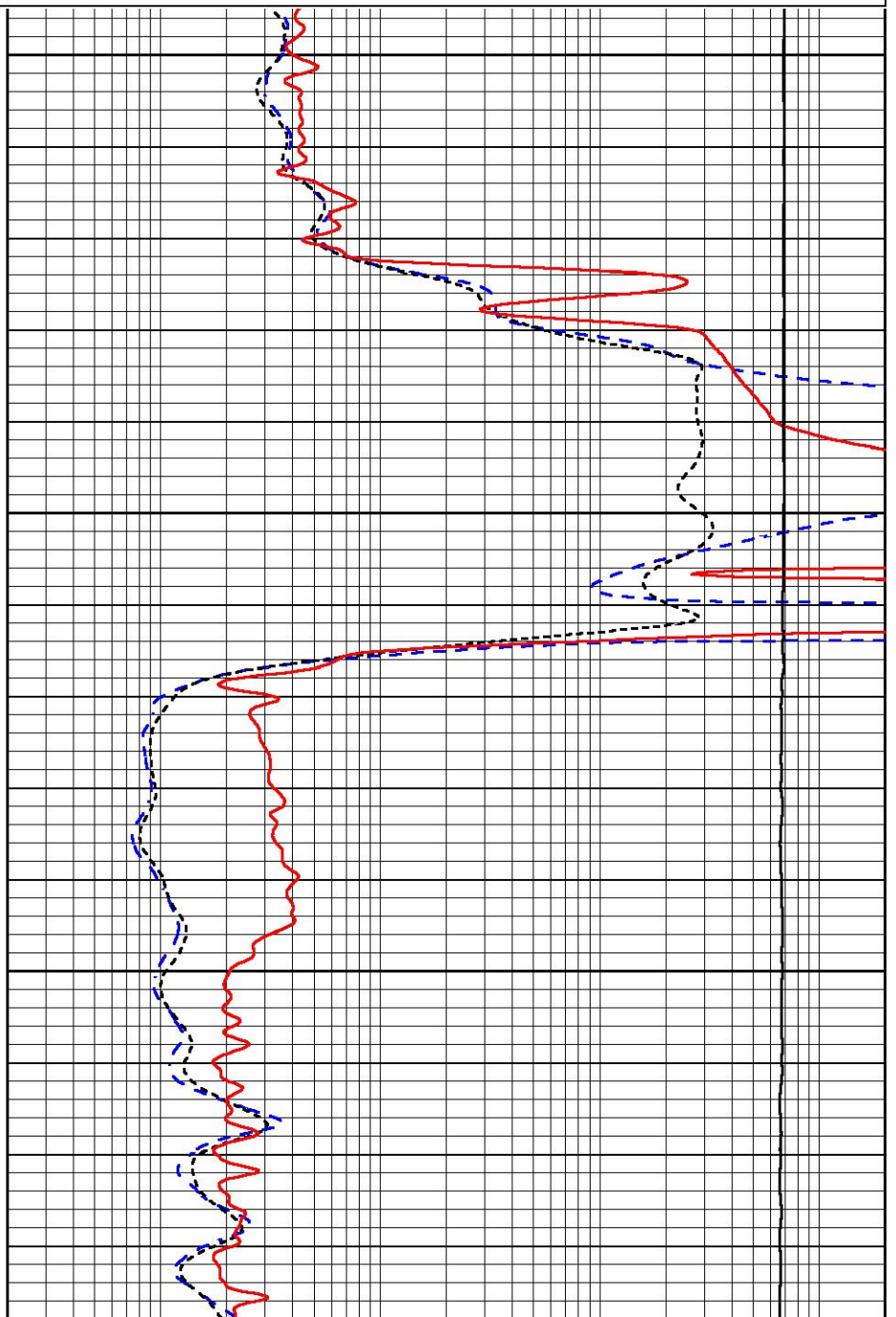
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

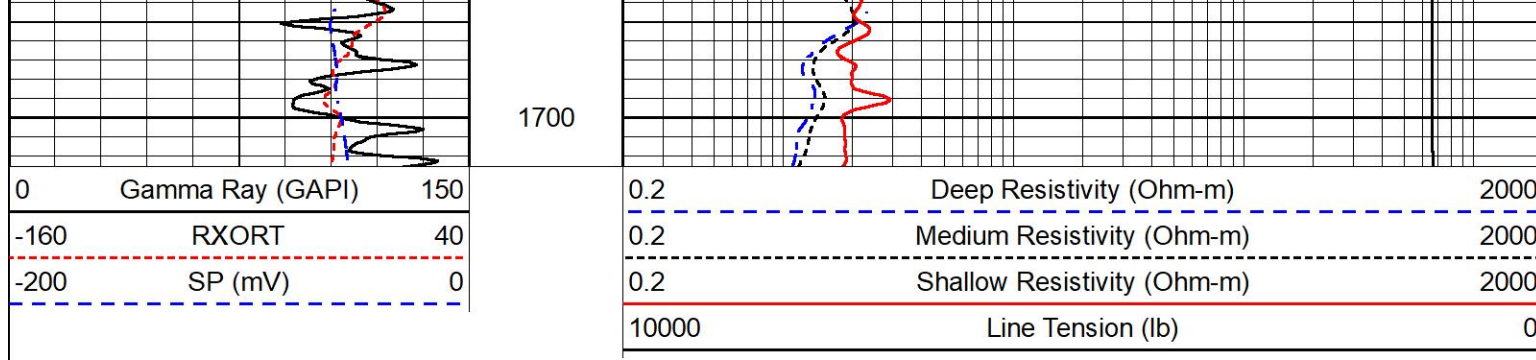


1550

1600

1650



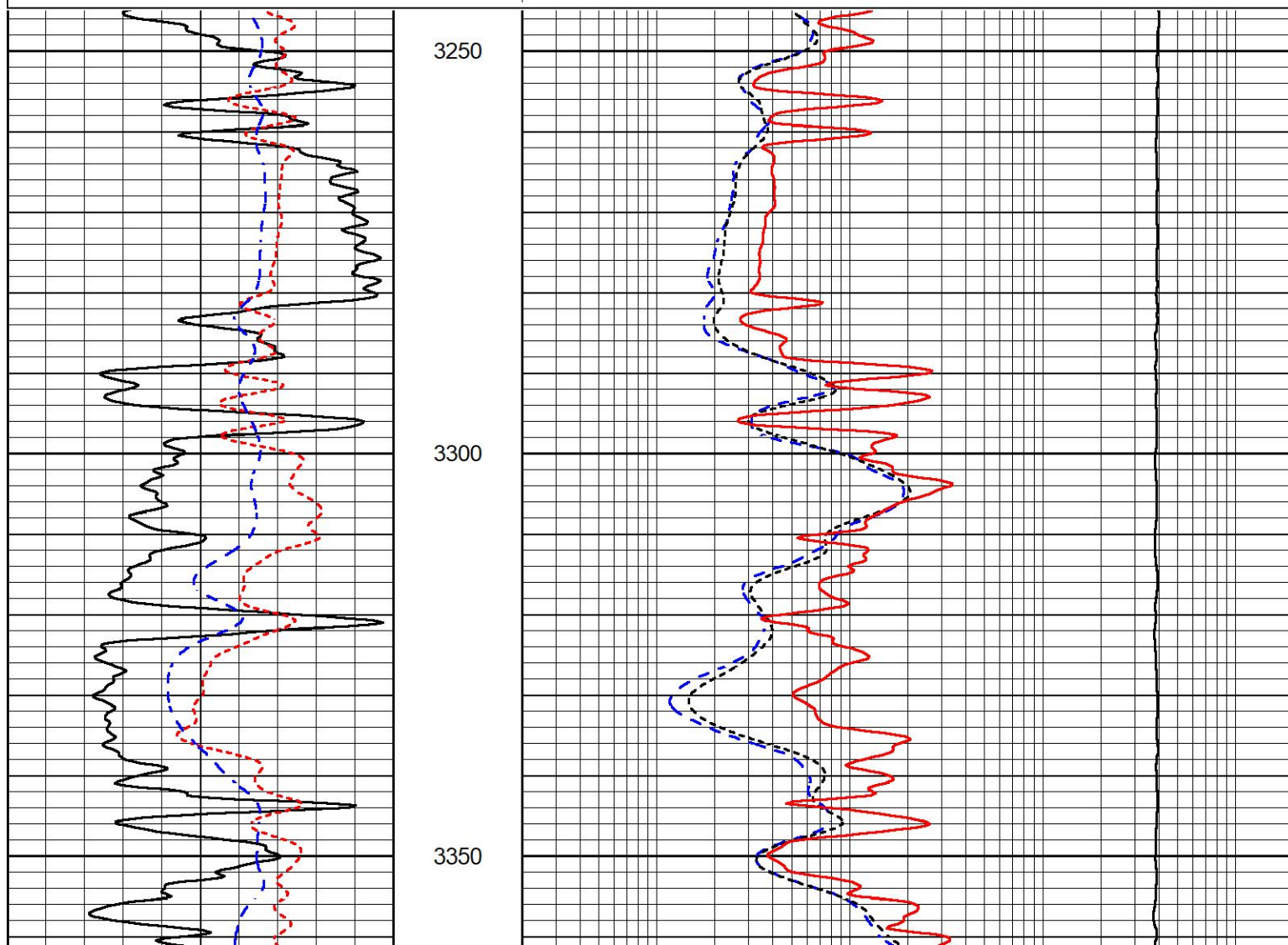
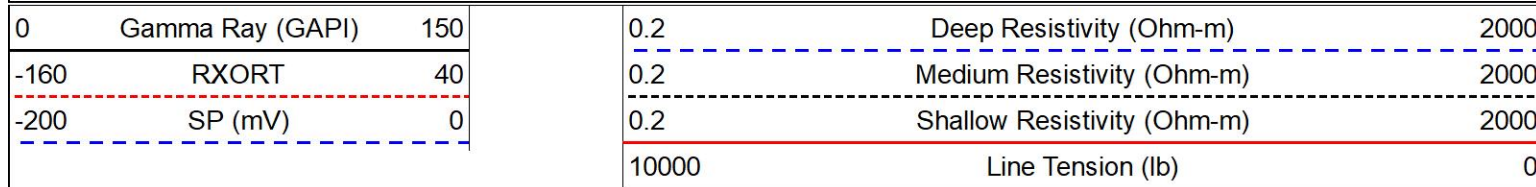


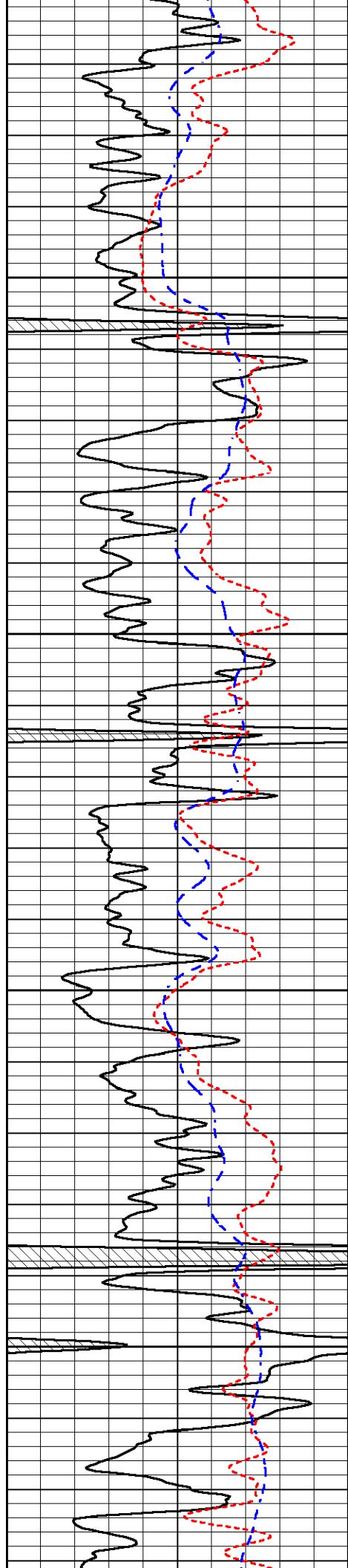
MIDWEST WIRELINE

DETAIL SECTION

MAIN PASS

Database File fossil_resources_cool_creek_1_13.db
 Dataset Pathname stackml/pass4.1
 Presentation Format _dil
 Dataset Creation Thu Mar 31 08:39:16 2022
 Charted by Depth in Feet scaled 1:240



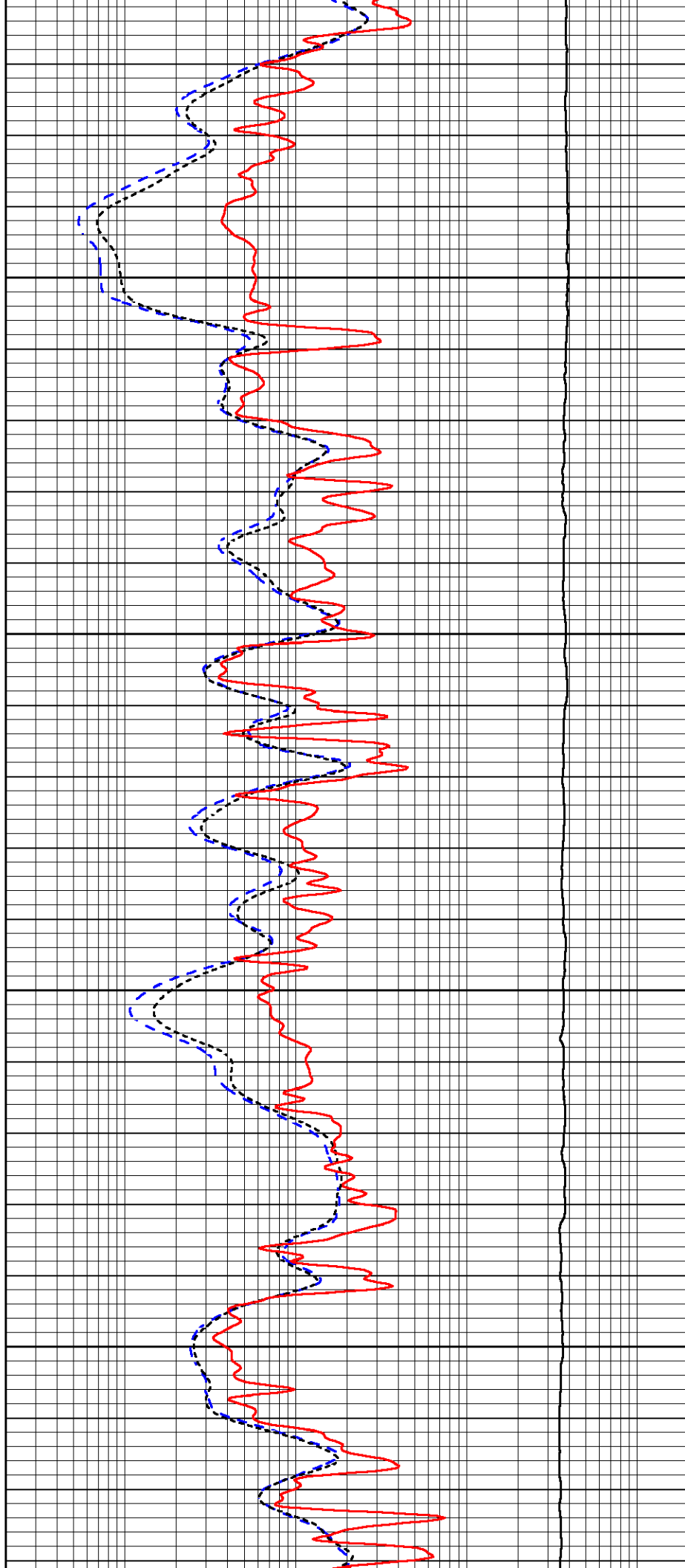


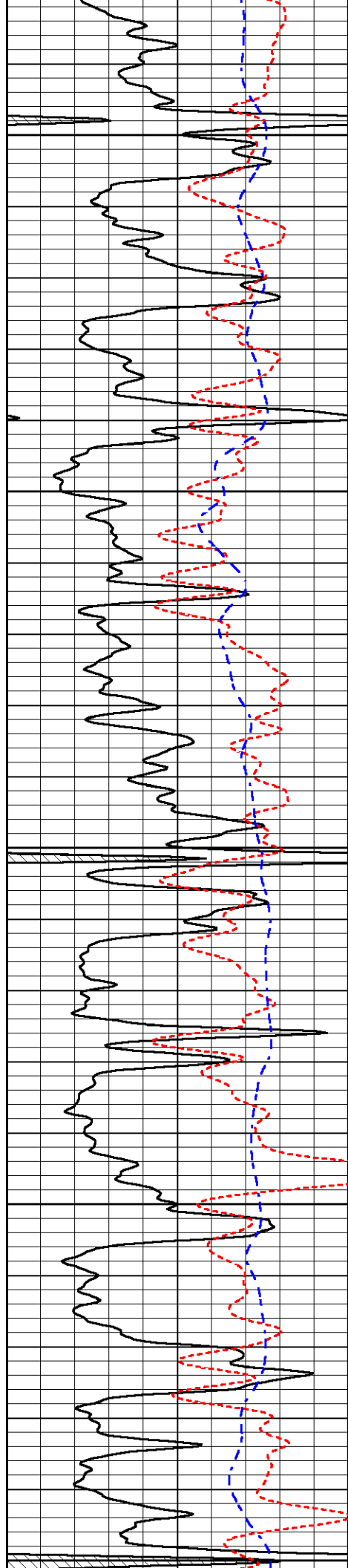
3400

3450

3500

3550





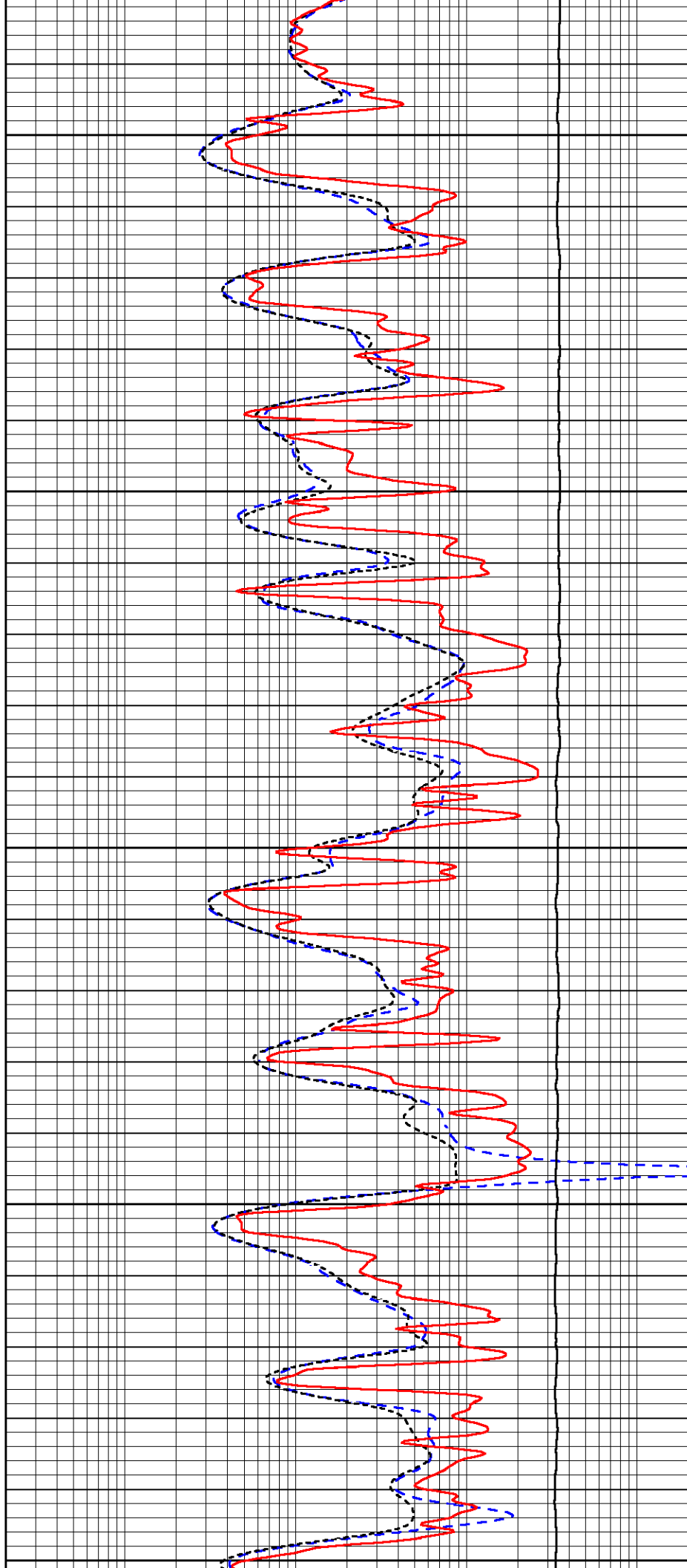
3600

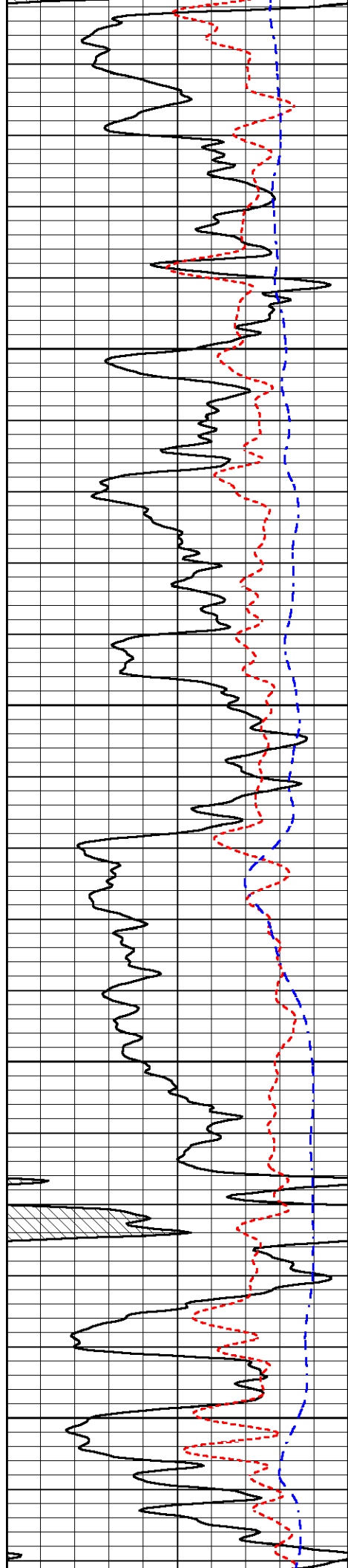
3650

3700

3750

3800



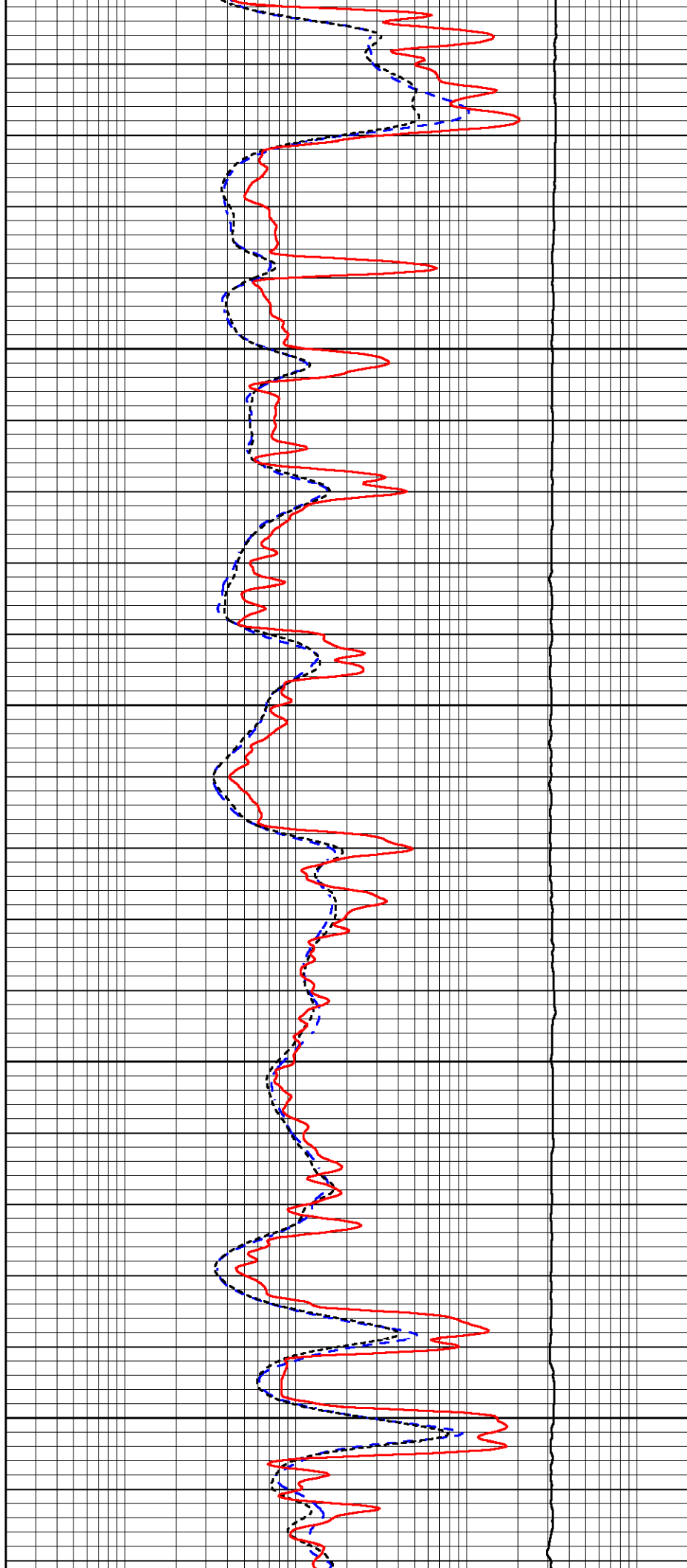


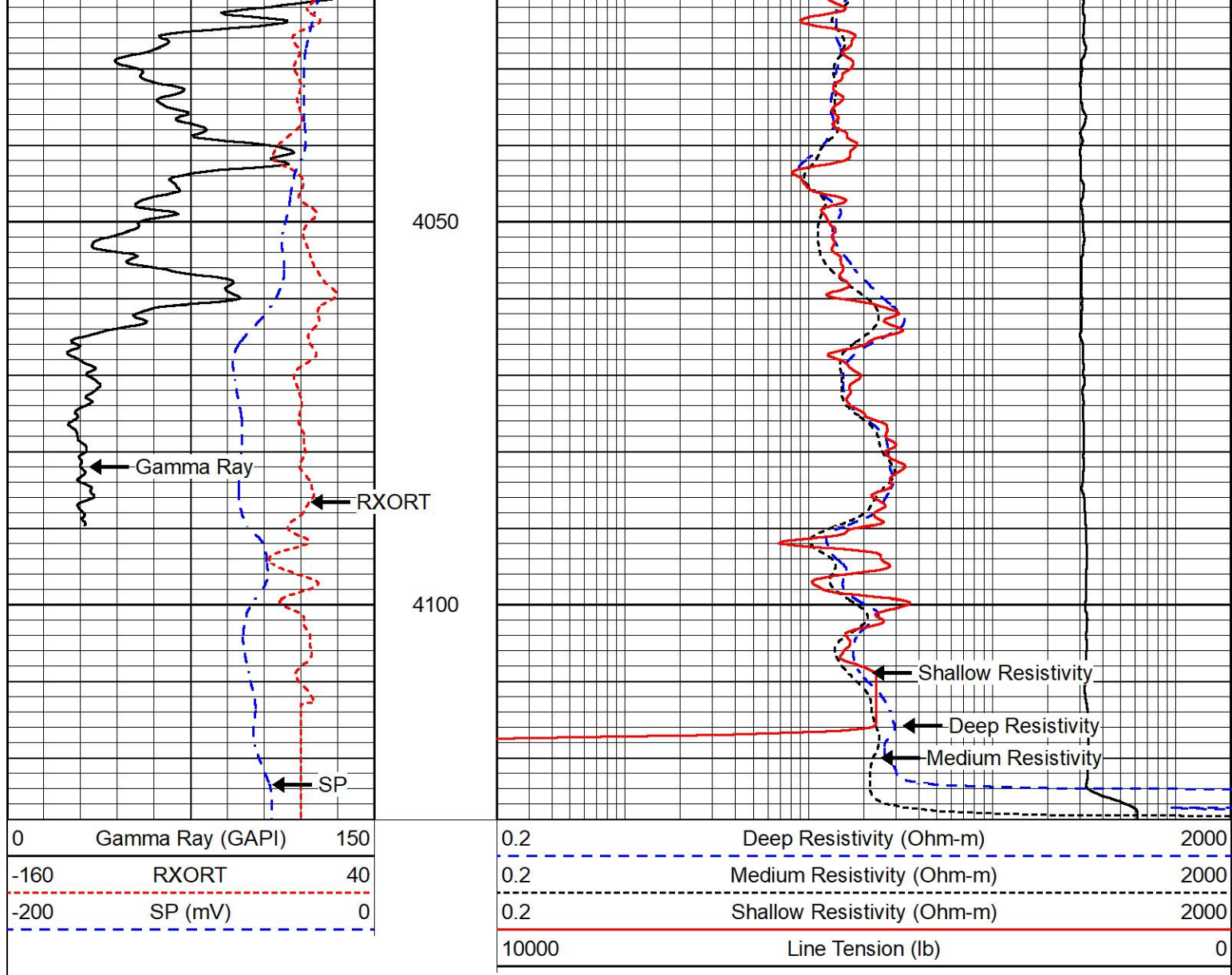
3850

3900

3950

4000

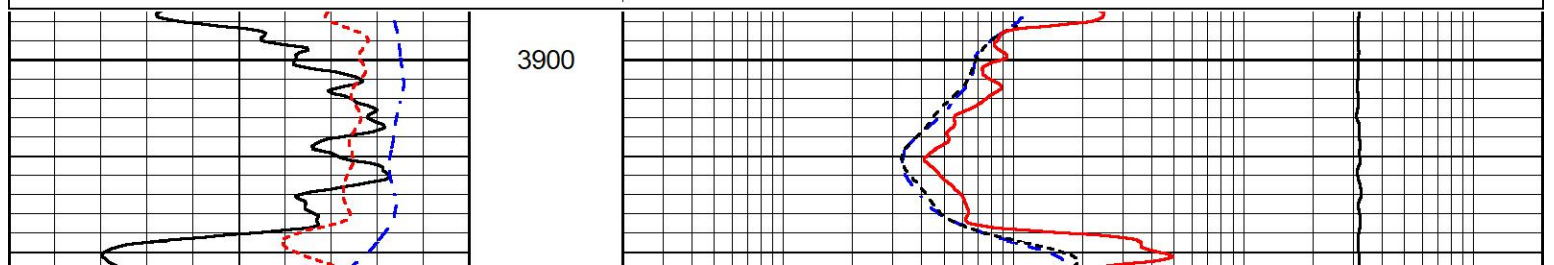
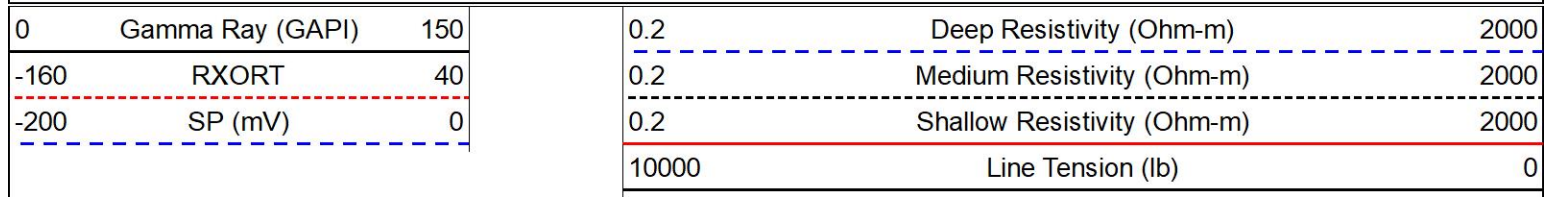


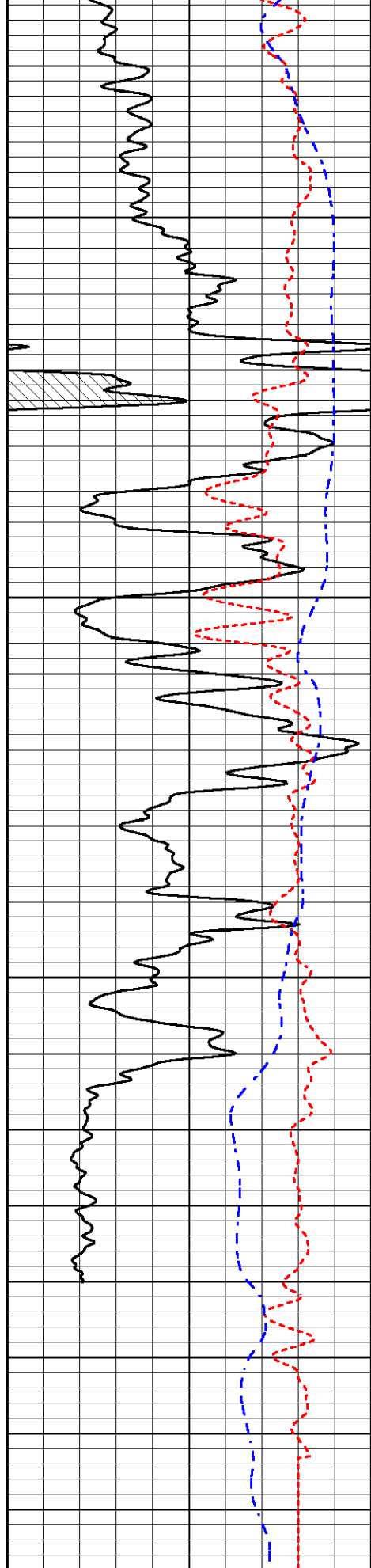


REPEAT SECTION

REPEAT PASS

Database File fossil_resources_cool_creek_1_13.db
 Dataset Pathname stackml/pass2.1
 Presentation Format _dil
 Dataset Creation Thu Mar 31 08:24:06 2022
 Charted by Depth in Feet scaled 1:240





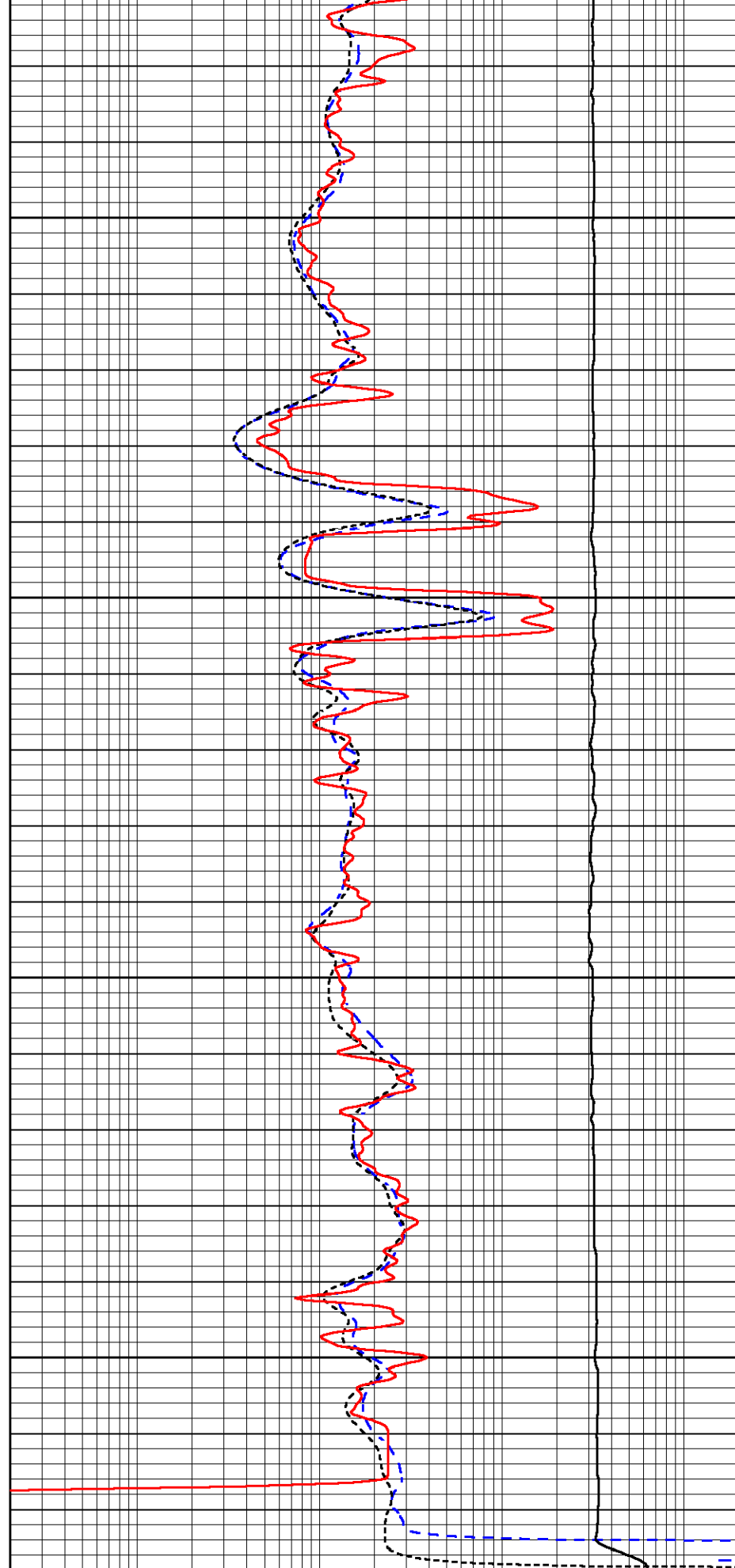
0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0

3950

4000

4050

4100



0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000

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:	103	
Tool Model:	M&W	
Performed:	Fri Dec 3 12:13:24 2021	
Calibrator Value:	500.0	GAPI
Background Reading:	28.0	cps
Calibrator Reading:	986.0	cps
Sensitivity:	0.5700	GAPI/cps



Company	Fossil Resources LLC
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