



DUAL INDUCTION LOG

MIDWEST WIRELINE

Company Darrah Oil Company LLC		Company Darrah Oil Company LLC	
Well	Panning 25A #1	Well	Panning 25A #1
Field	Pritchard	Field	Pritchard
County	Barton	County	Barton
State	Kansas	State	Kansas
Location: API #: 15-009-26325-00-00		Other Services	
579 FNL & 1579 FEL		CNL/CDL MEL	
Permanent Datum	Ground Level	Elevation	1893
Log Measured From	Kelly Bushing	K.B.	1904
Drilling Measured From	Kelly Bushing	D.F.	1893
SEC 25 TWP 20S RGE 14W			
Date	2/3/2022		
Run Number	One		
Depth Driller	3550		
Depth Logger	3538		
Bottom Logged Interval	3537		
Top Log Interval	250		
Casing Driller	8.625 @ 295		
Casing Logger	287		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity, ppm CL	5500		
Density / Viscosity	9.1 52		
pH / Fluid Loss	9.5 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.65 @ 69		
Rmt @ Meas. Temp	.49 @ 69		
Rmc @ Meas. Temp	.88 @ 69		
Source of Rmt / Rmc	CHARTS		
Rm @ BHT	.40 @ 112		
Operating Rig Time	4 Hours		
Max Rec. Temp. F	112		
Equipment Number	P-108		
Location	HAYS		
Recorded By	J. Henrickson		
Witnessed By	Seth Evenson		

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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.

Great Bend Kansas
5 South, 3 1/2 East, South Into

Log Measured From: Kelly Bushing

11 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: Seth Evenson
Secondary Witness:
Secondary Witness:
Secondary Witness:

DatabaseC:\ProgramData\Warrior\Data\darrah_panning_25_a_1.db
Dataset field/well/stackml/pass5.1/ vars

Top - Bottom

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb)	
GR	44.25		GR-M&W (103)	3.00	3.50	50.00	
CNLSC CNSSC	41.15 40.40		CNT-M&W (210)	5.00	3.50	100.00	
LSD DCAL SSD	32.10 32.08 31.60		CDL-M&W (306-06)	8.50	4.00	250.00	
			ML-PSI UDM ML (412) Stackable Microlog Tools	11.50	4.00	215.00	
MCAL MI MN	20.62 20.62 20.62						
RLL3F RLL3	15.50 15.50						
CILD	8.33			DIL-M&W (504 HT)	18.25	3.50	220.00

CILM

4.50

SP

0.20

Dataset: darrah_panning_25_a_1.db: field/well/stackml/pass1
 Total length: 46.25 ft
 Total weight: 835.00 lb
 O.D.: 4.00 in



MIDWEST WIRELINE

2" SCALE RESISTIVITY

MAIN PASS

Database File darrah_panning_25_a_1.db
 Dataset Pathname stackml/pass7.1
 Presentation Format _dil2in
 Dataset Creation Thu Feb 03 02:36:48 2022
 Charted by Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

1000 Conductivity (mmho/m) 0

15000 Line Tension (lb) 0

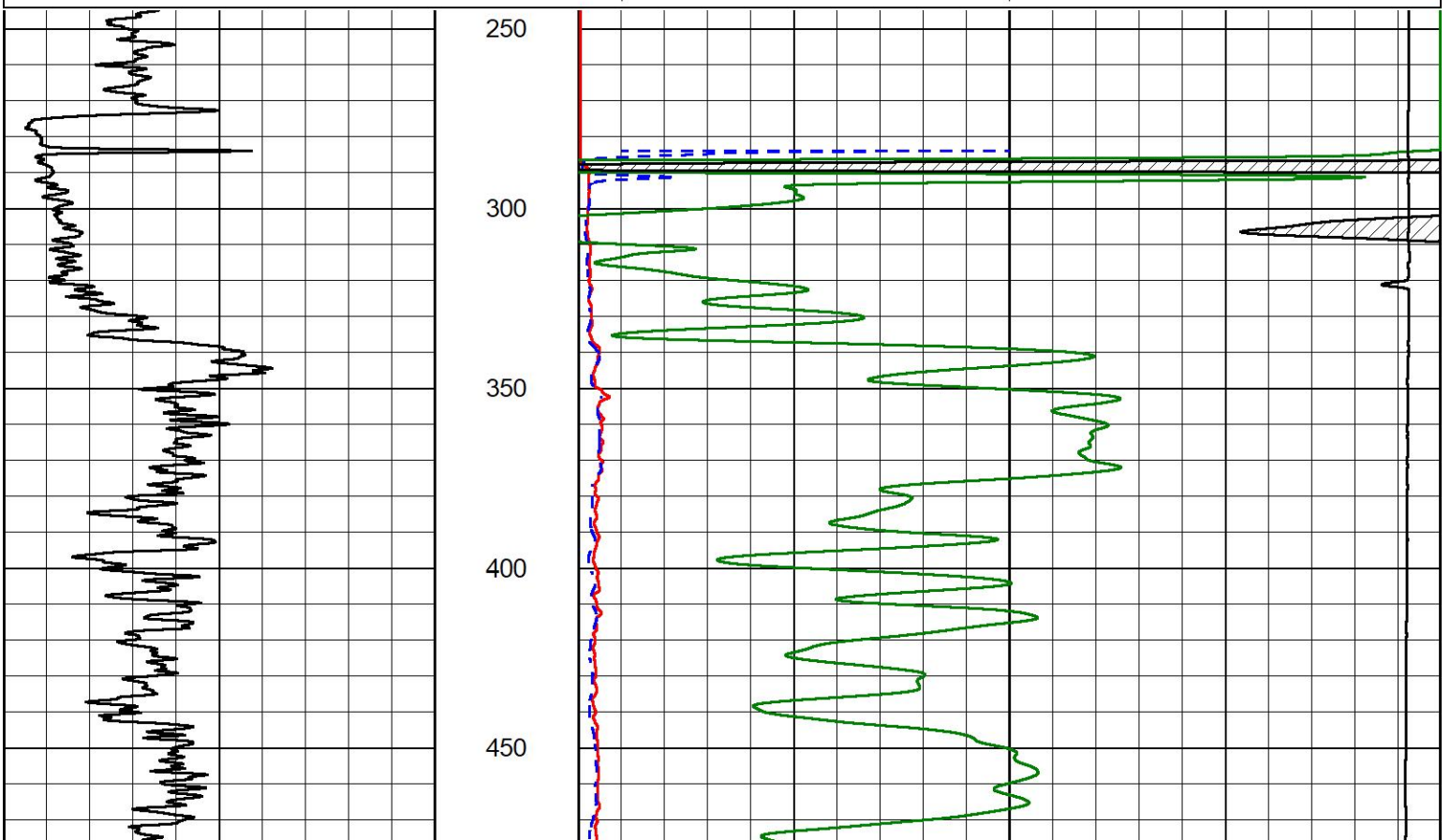
0 Shallow Resistivity (Ohm-m) 50

0 Deep Resistivity (Ohm-m) 50

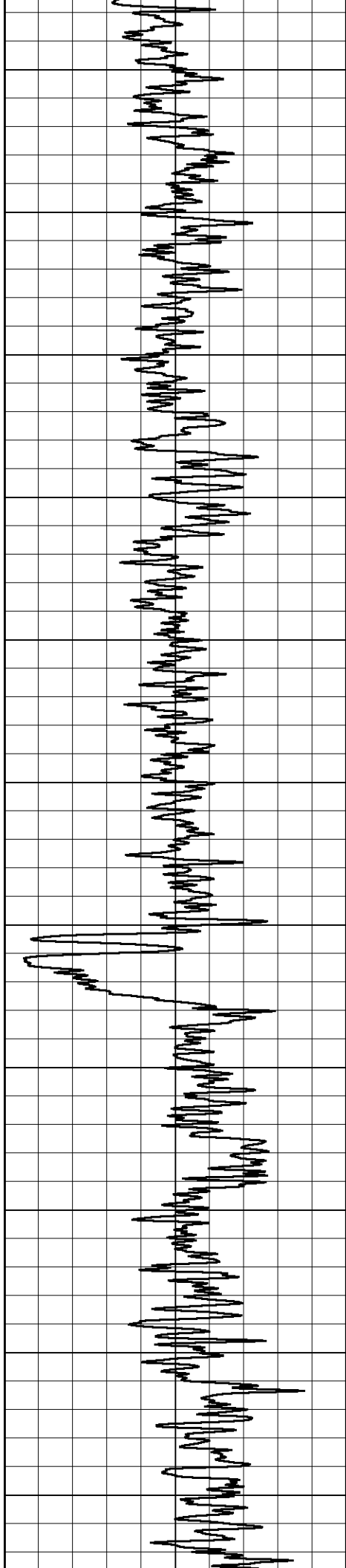
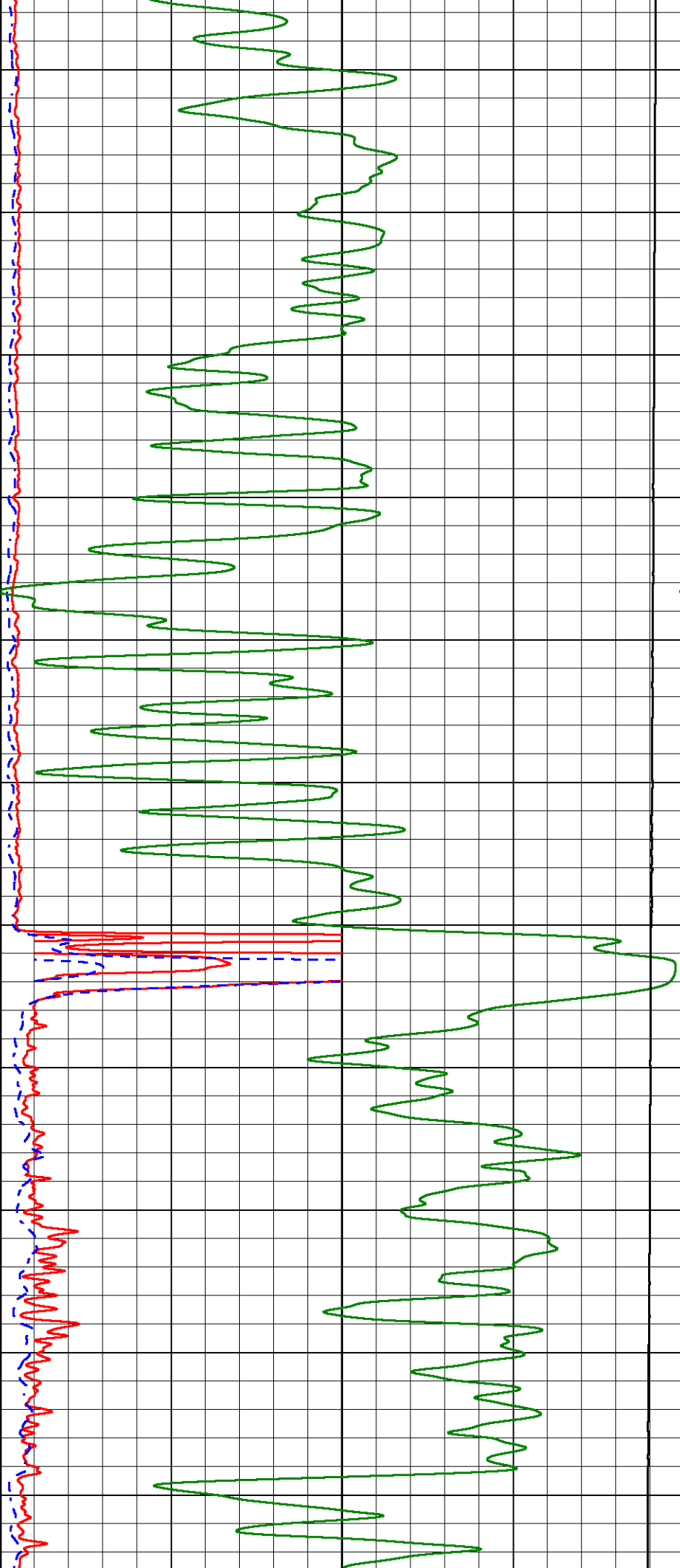
Shallow Resistivity

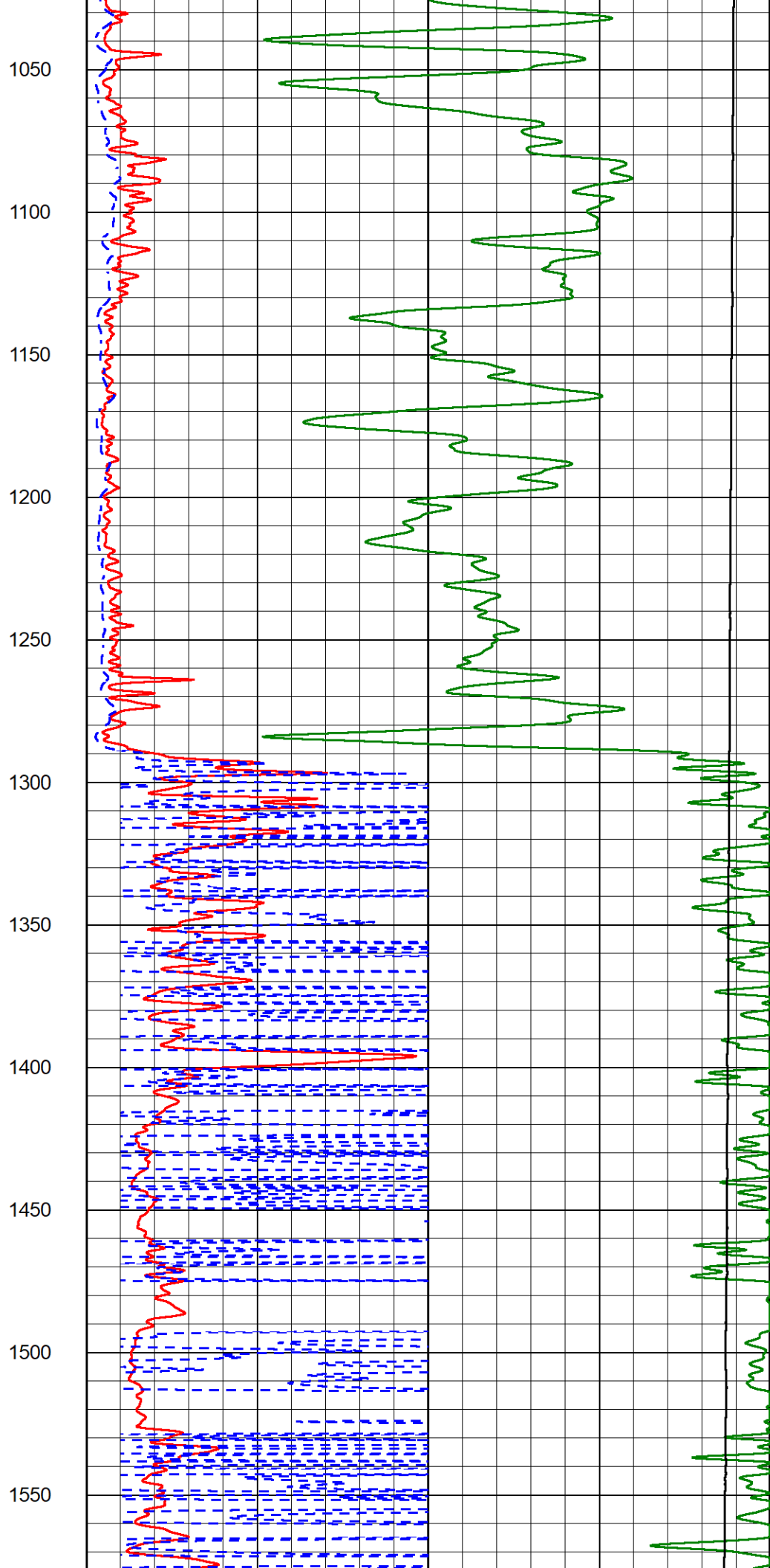
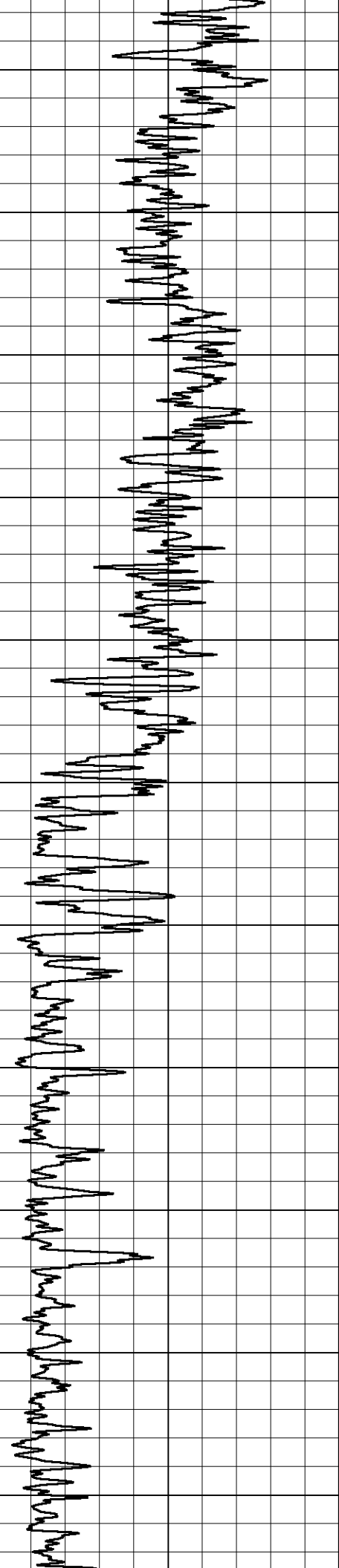
50 (Ohm-m) 200

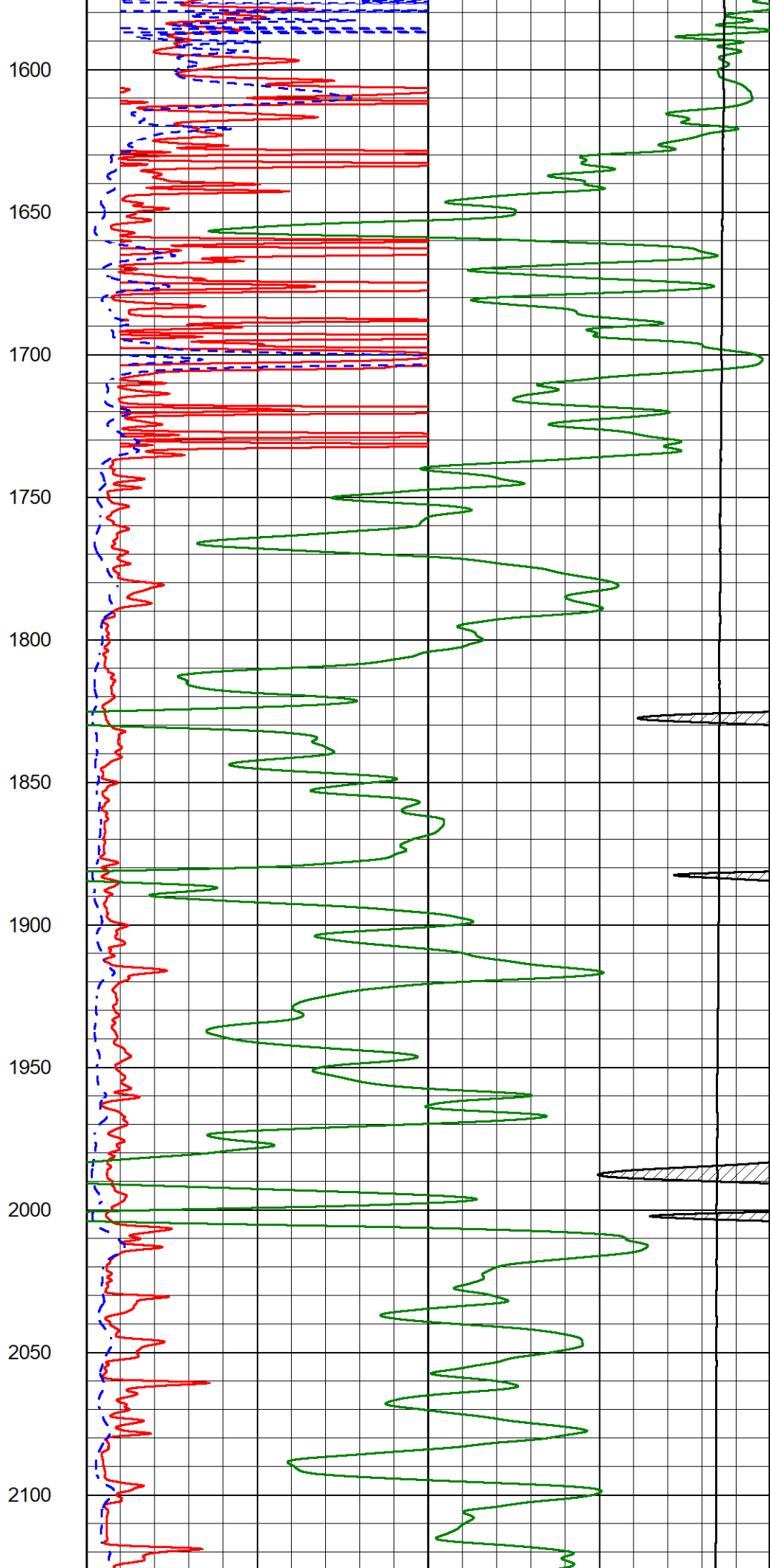
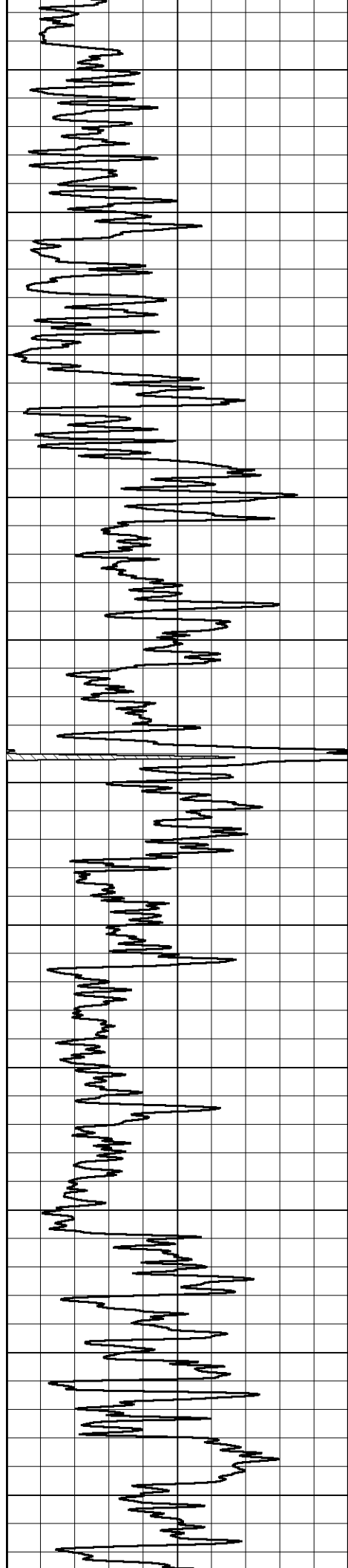
50 Deep Resistivity (Ohm-m) 200

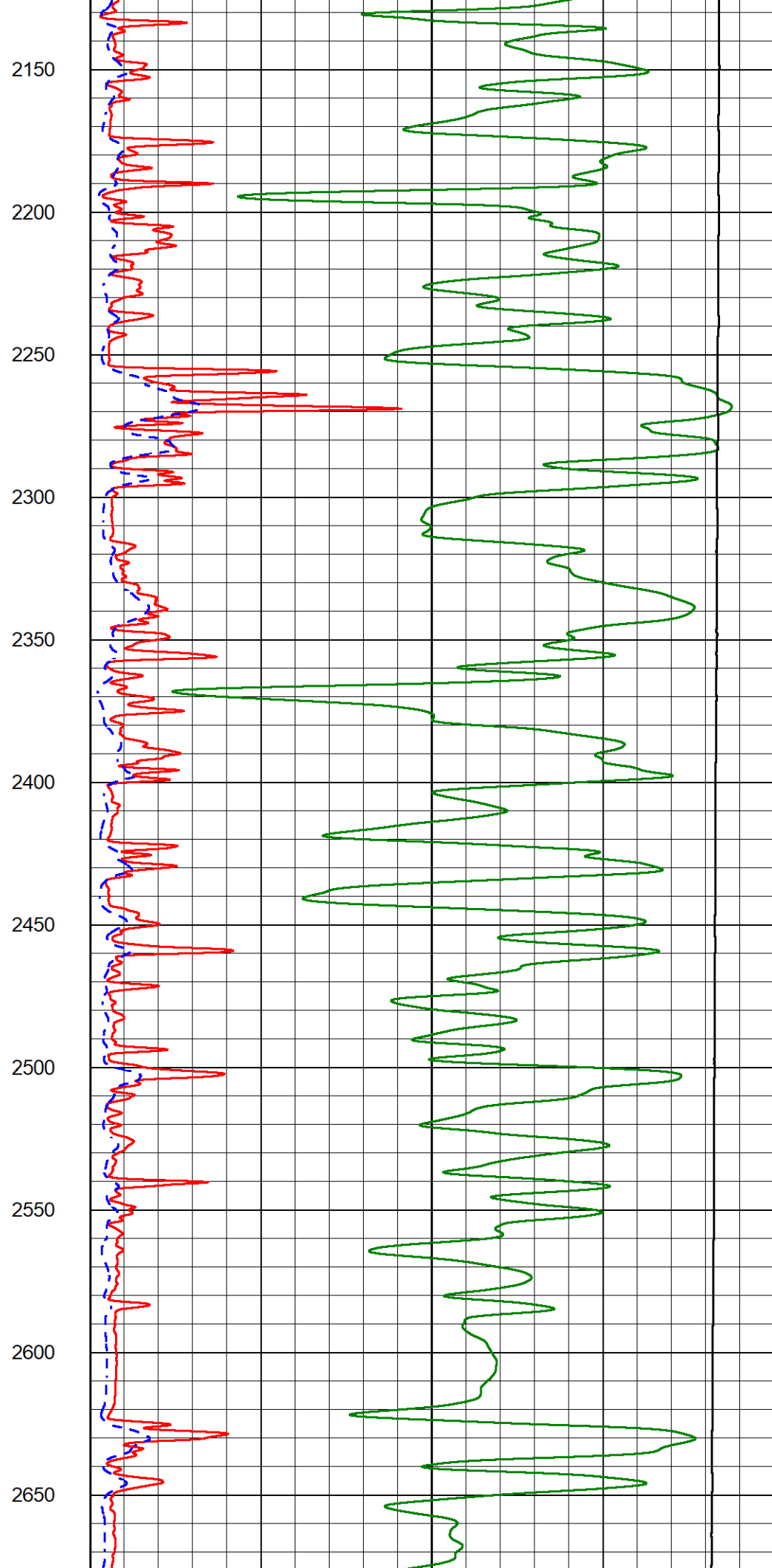
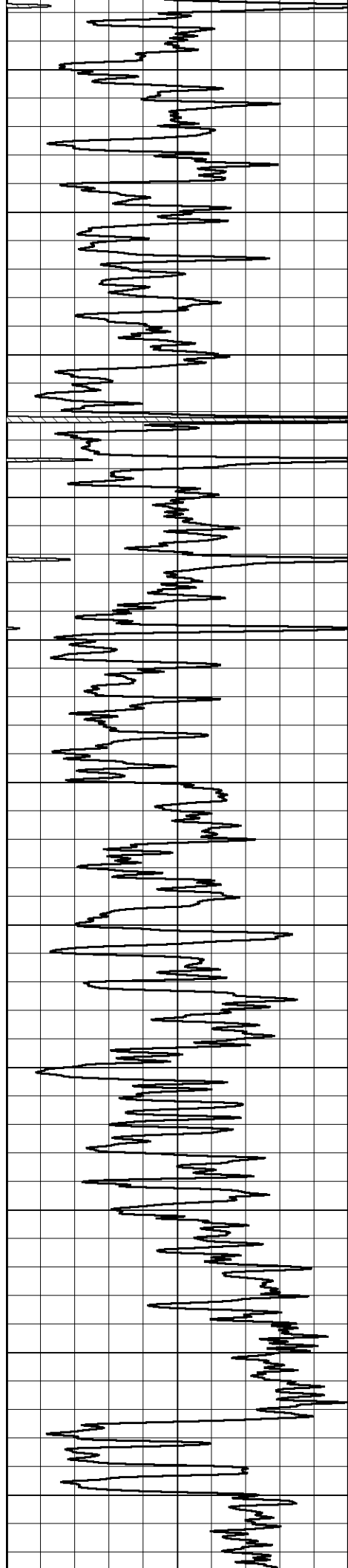


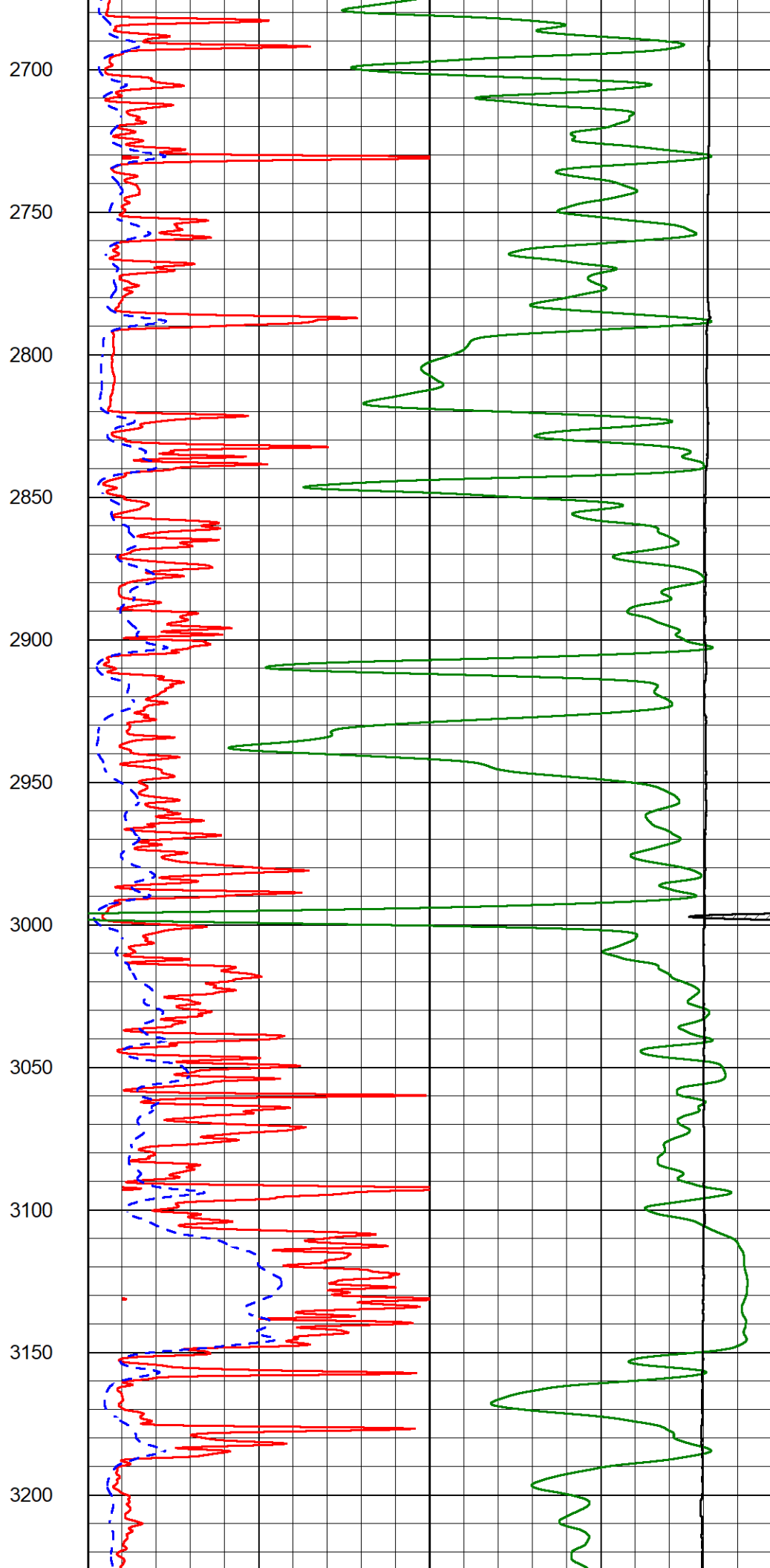
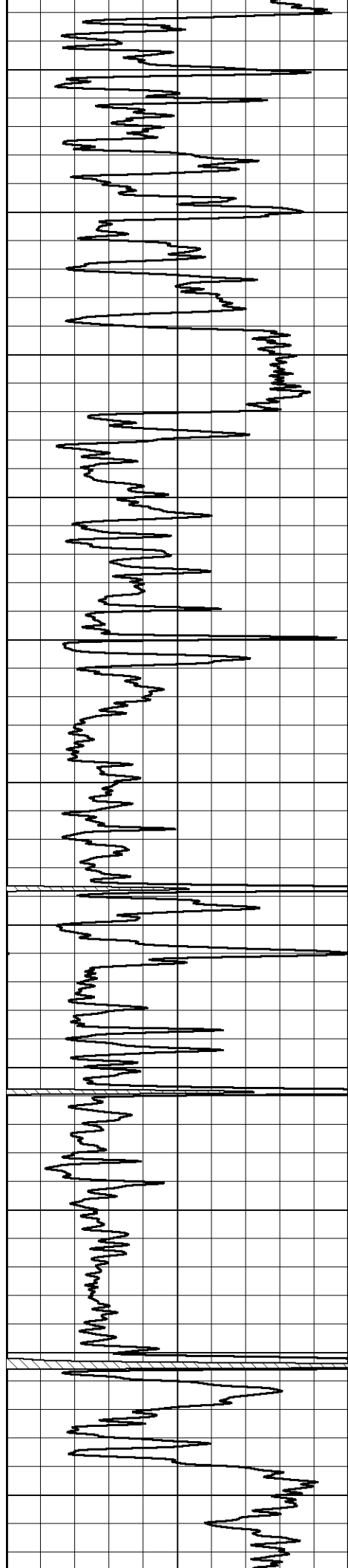
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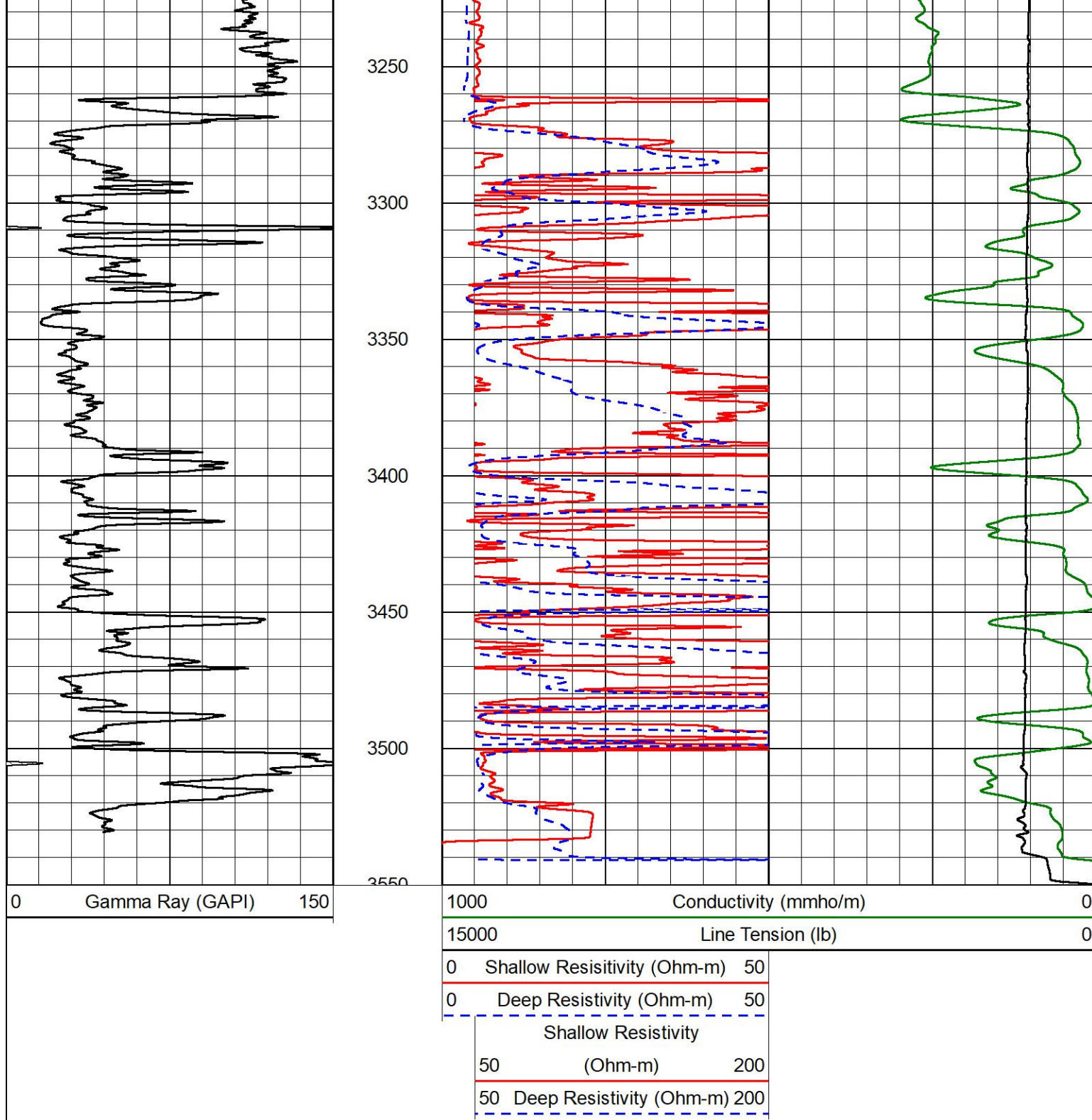












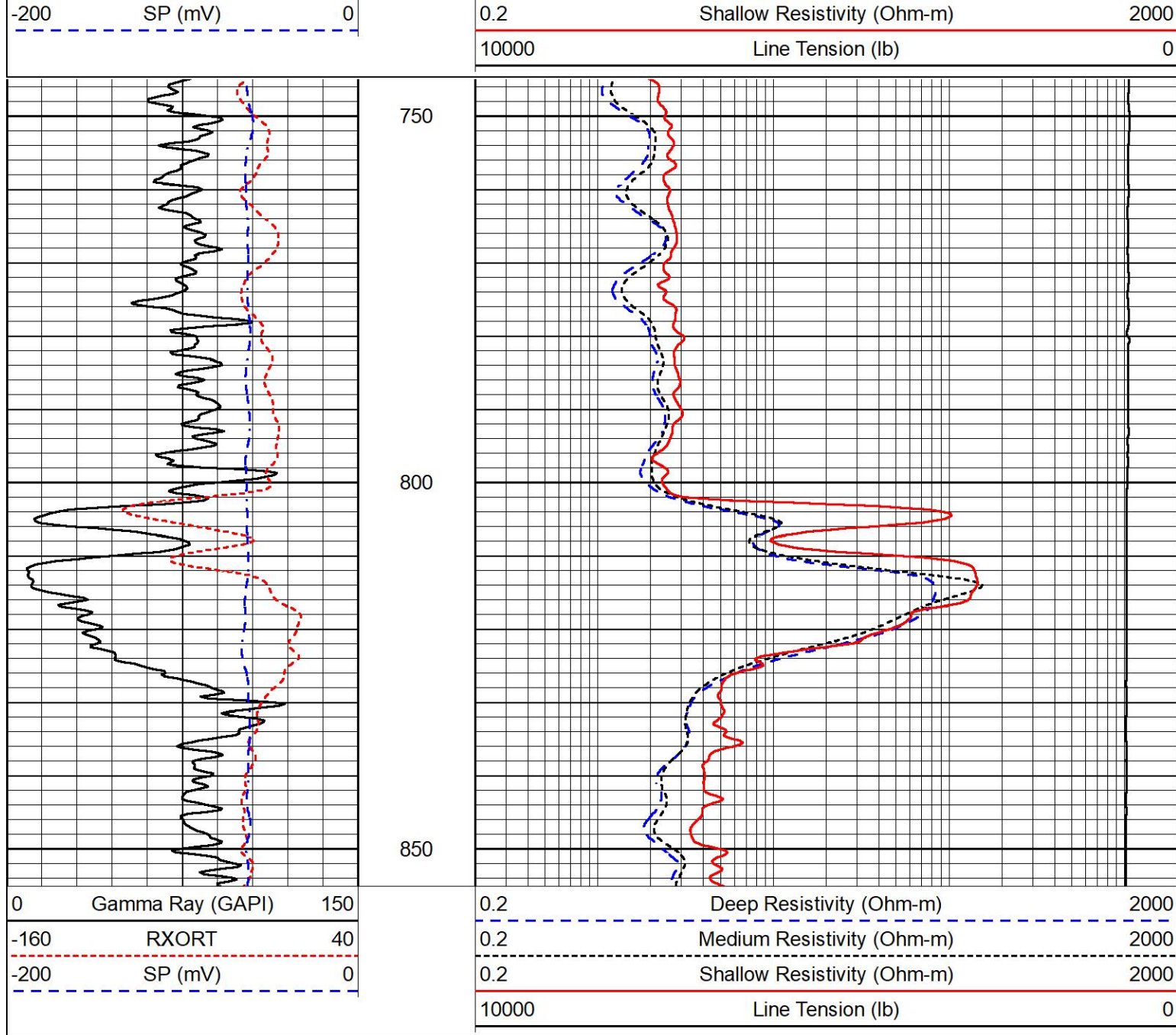
ANHYDRITE SECTION

MAIN PASS

Database File darrah_panning_25_a_1.db
 Dataset Pathname stackml/pass6.1
 Presentation Format _dil
 Dataset Creation Thu Feb 03 02:24:16 2022
 Charted by Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
-160	RXORT	40

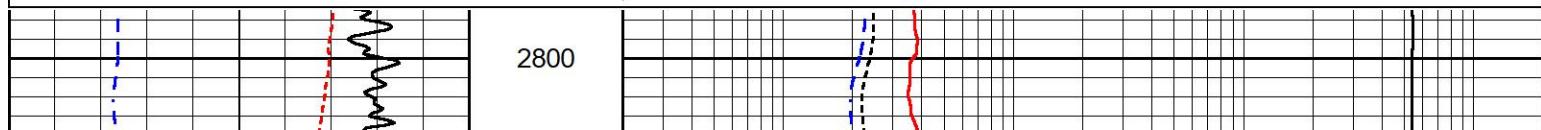
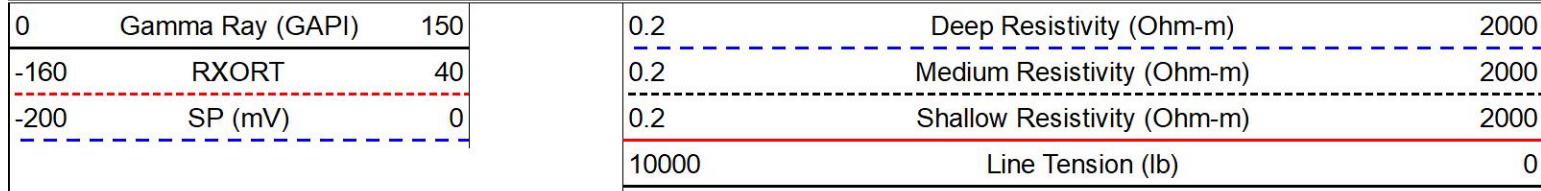
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000

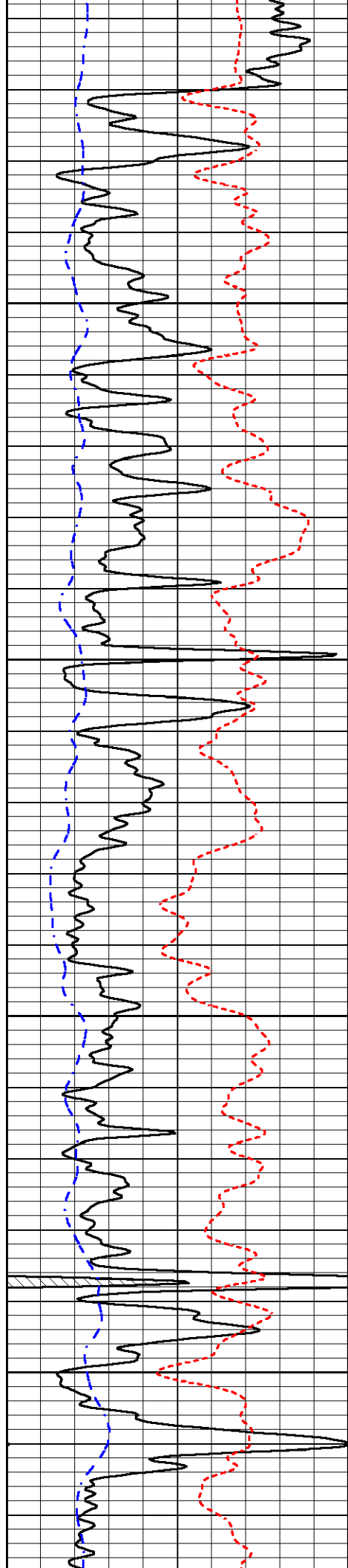


DETAIL SECTION

MAIN PASS

Database File darrah_panning_25_a_1.db
 Dataset Pathname stackml/pass5.1
 Presentation Format _dil
 Dataset Creation Thu Feb 03 02:03:36 2022
 Charted by Depth in Feet scaled 1:240



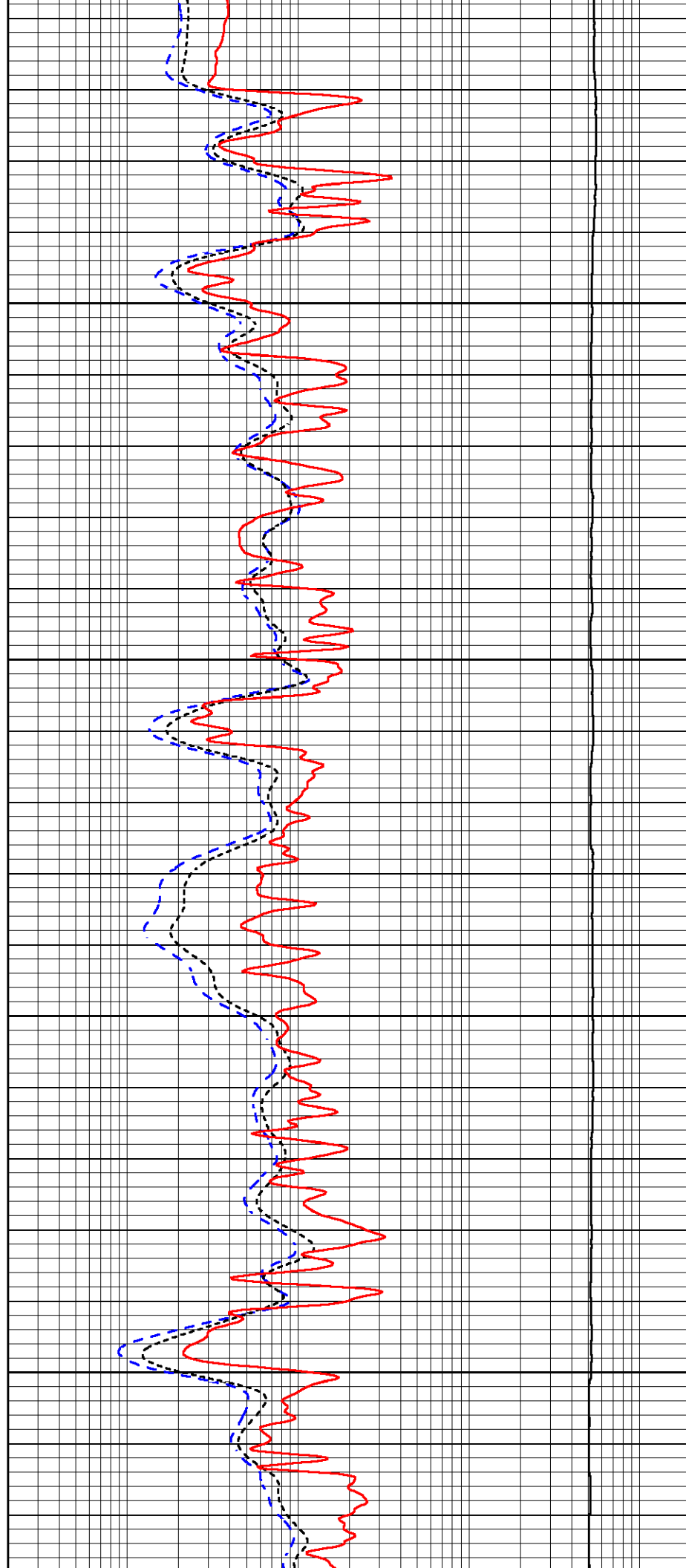


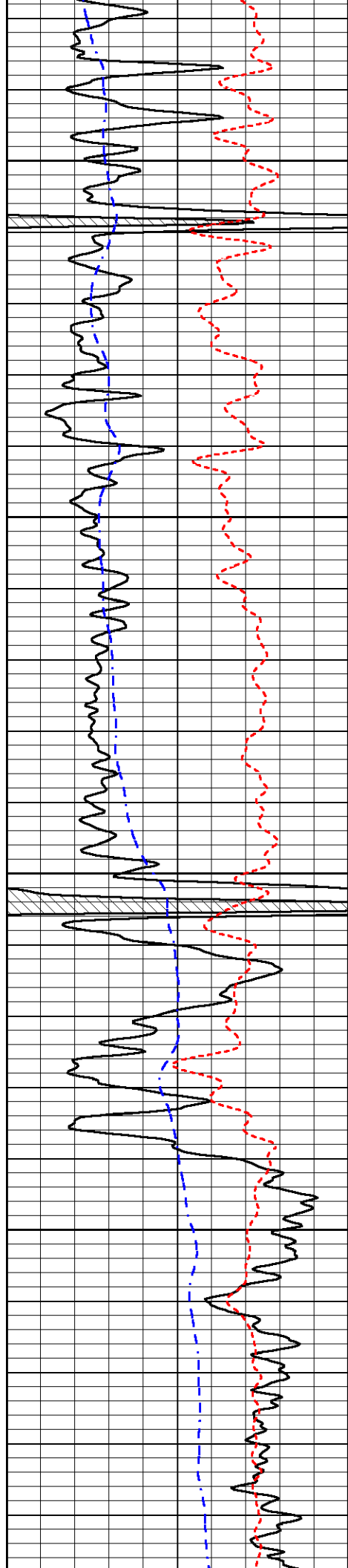
2850

2900

2950

3000



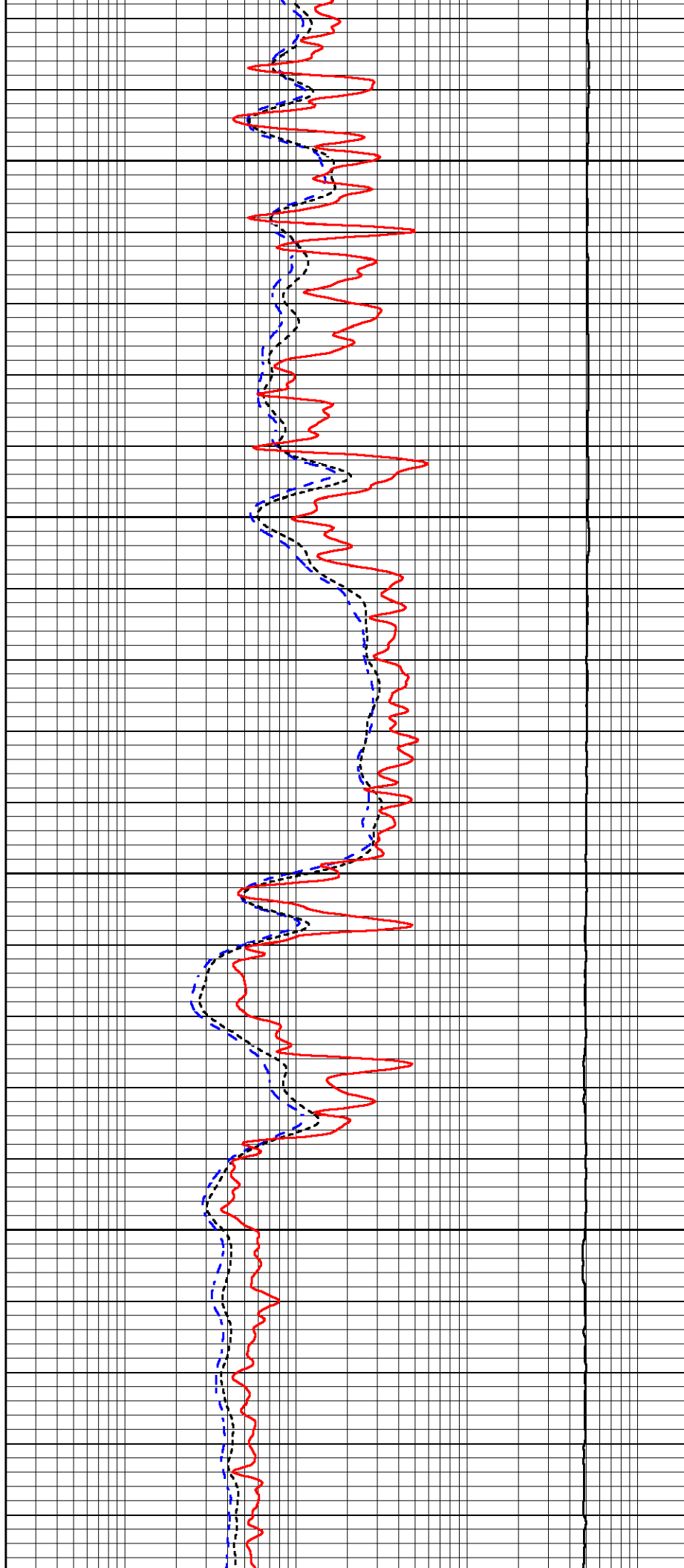


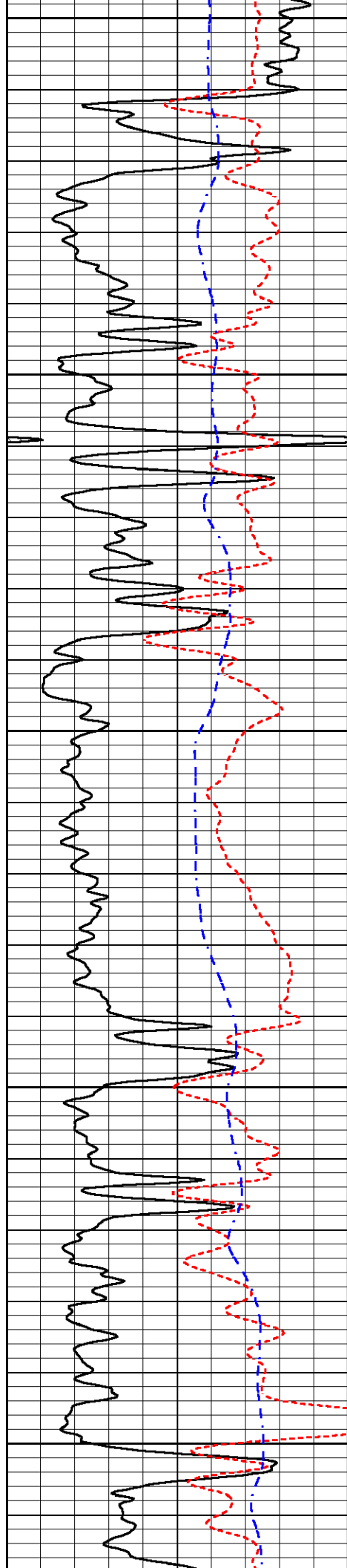
3050

3100

3150

3200





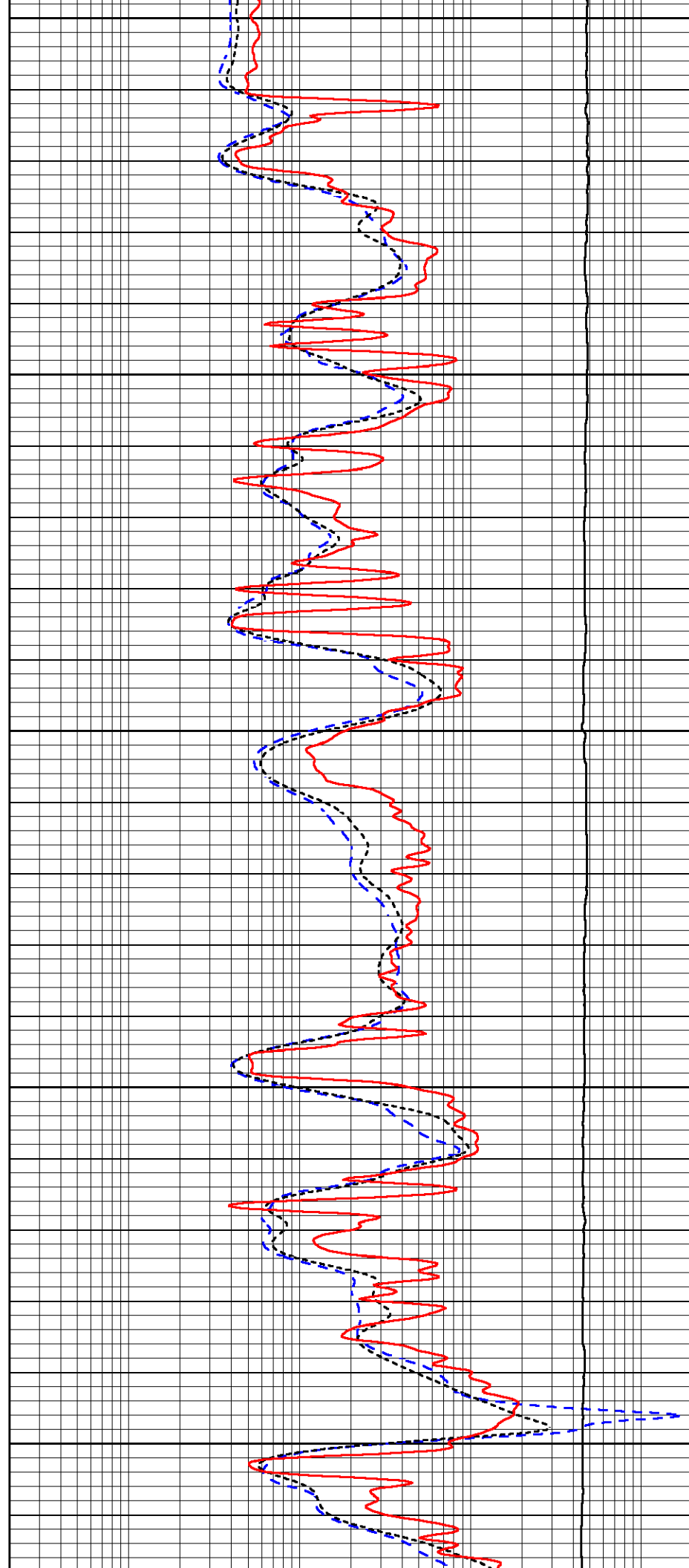
3250

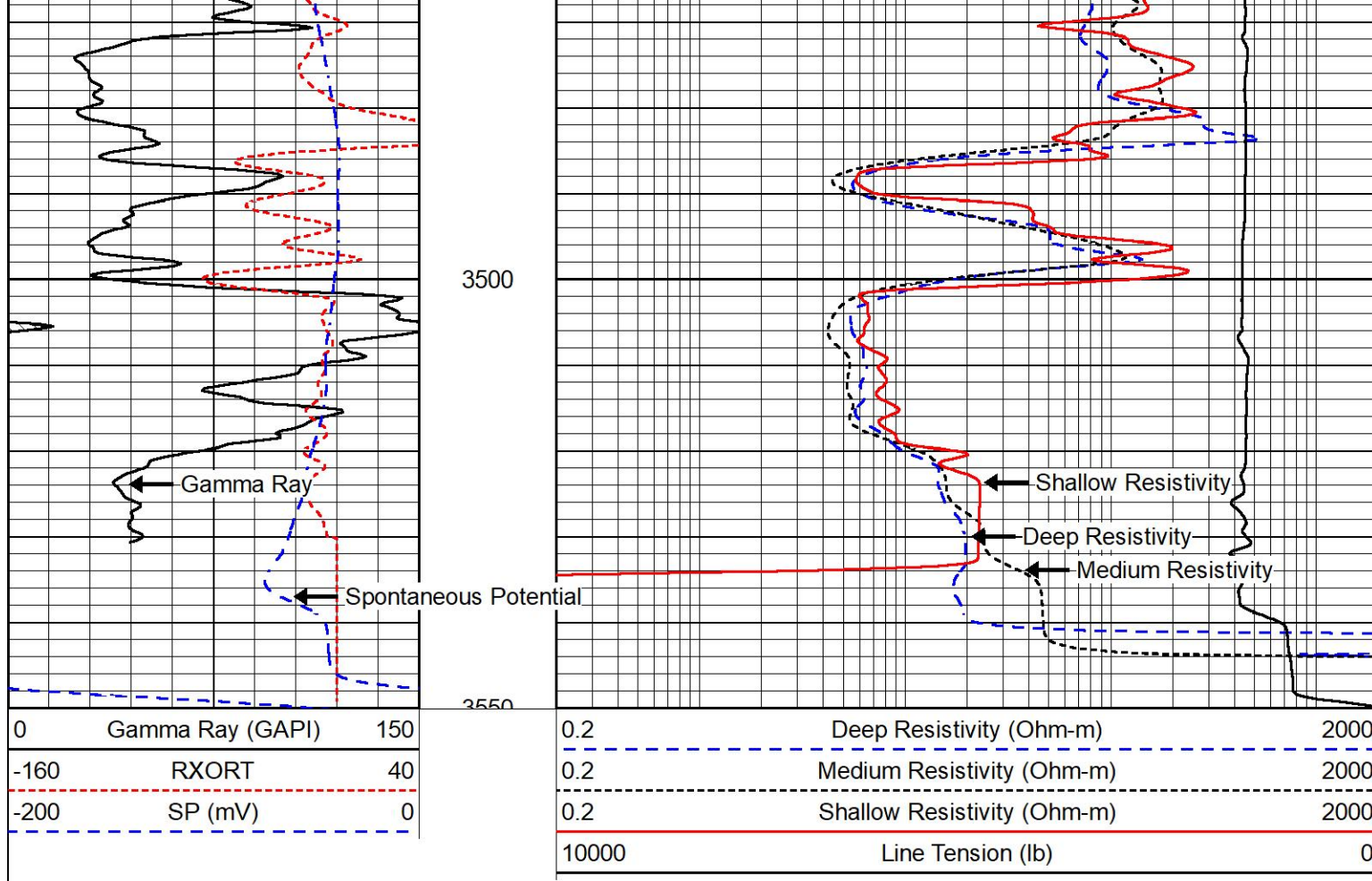
3300

3350

3400

3450





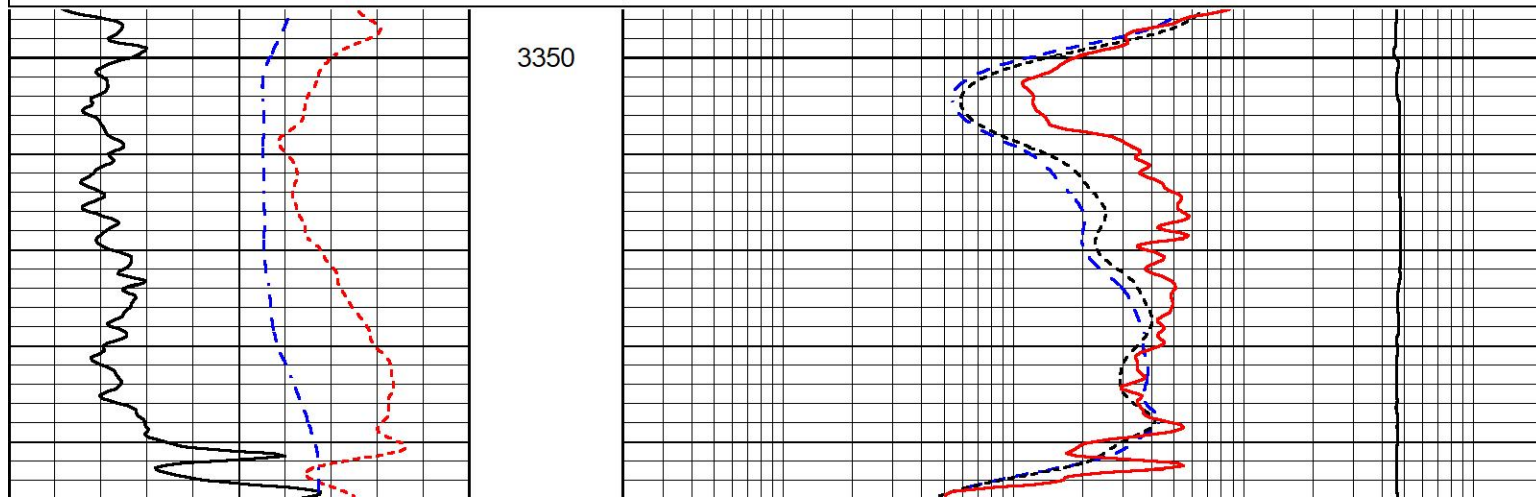
MIDWEST WIRELINE

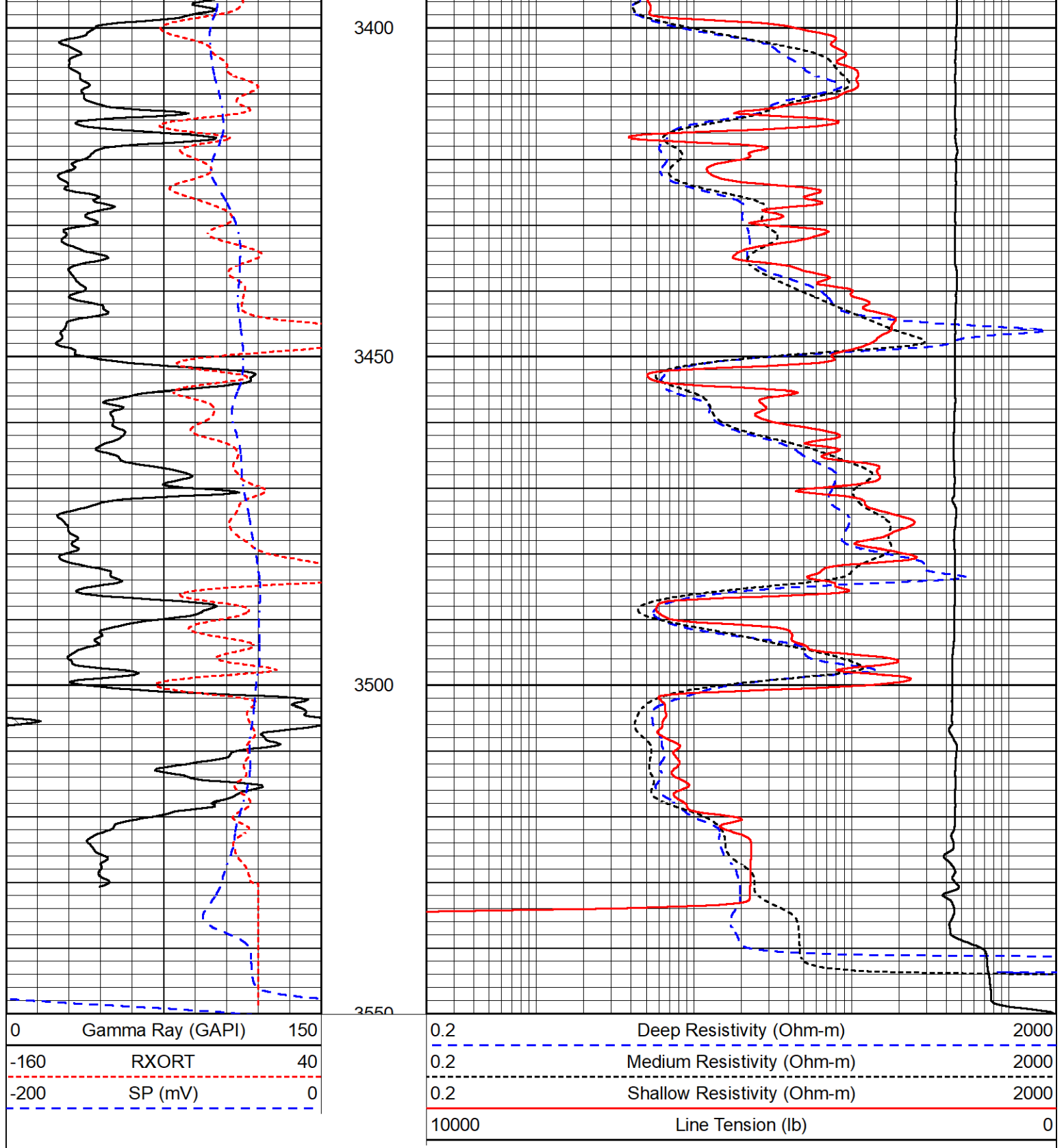
REPEAT SECTION

REPEAT PASS

Database File darrah_panning_25_a_1.db
 Dataset Pathname stackml/pass3.1
 Presentation Format _dil
 Dataset Creation Thu Feb 03 02:02:45 2022
 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	Shallow Resistivity (Ohm-m)	2000
			10000	Line Tension (lb)	0





Calibration Report

Database File: darrah_panning_25_a_1.db
 Dataset Pathname: stackml/pass5.1
 Dataset Creation: Thu Feb 03 02:03:36 2022

Dual Induction Calibration Report

Serial-Model: 504 HT-M&W
 Surface Cal Performed: Thu Dec 16 22:32:49 2021

Readings

References

Results

Loop:	Air	Loop	Air	Loop		m	b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.680	-19.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report

Serial-Model: 412-PSI UDM ML
 Performed: Tue May 25 15:08:24 2021

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0000	1.0000	0.0000	1.0000	Ohm-m	20000.0000	0.0000
Inverse	0.0000	1.0000	0.0000	1.0000	Ohm-m	16500.0000	0.0000
Caliper	1.0018	1.2624	6.0000	22.0000	in	61.4188	-55.6327

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 Darrah Oil Company LLC
 Well Panning 25A #1
 Field Pritchard
 County Barton
 State Kansas