MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Darrah Oil Company, LLC
Well Wyly A #3
Field Pritchard
County Barton State Kansas

Location: API # : 15-009-26333-00-00
1542 FSL & 1872 FEL
SEC 26 TWP 20S RGE 14W

Other Services
CNL/CDL
MEL/BHCS

Permanent Datum Ground Level Elevation 1898
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation
K.B. 1909
D.F.
G.L. 1898

Company Darrah Oil Company, LLC
Well Wyly A #3
Field Pritchard
County Barton
State Kansas

Date	3/9/2022			
Run Number	One			
Depth Driller	3551			
Depth Logger	3550			
Bottom Logged Interval	3549			
Top Log Interval	300			
Casing Driller	8.625 @ 333			
Casing Logger	330			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	6000			
Density / Viscosity	9.1 / 58			
pH / Fluid Loss	10.0 / 8.4			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	0.50 @ 50			
Rmf @ Meas. Temp	0.38 @ 50			
Rmc @ Meas. Temp	0.68 @ 50			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	0.23 @ 110			
Operating Rig Time	4 Hours			
Max Rec. Temp. F	110			
Equipment Number	P-24			
Location	Hays			
Recorded By	D. Schmidt			
Witnessed By	Roger Martin			

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Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

Great Bend,
South to 50th, West to 40th, 3/4 South,
West into

Log Measured From: Kelly Bushing 5 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: D. Schmidt	Primary Witness: Roger Martin
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
GR	32.75		GR-M&W (101)	3.00	3.50	50.00
CNLSC	29.65		CNT-M&W (207-MW)	5.00	3.50	100.00
CNSSC	28.90					
			CDL-M&W (305-05)	8.50	4.00	250.00
LSD	20.60					
DCAL	20.58					
SSD	20.10					
RLL3F	15.50					
RLL3	15.50					
			DIL-M&W (501 HT)	18.25	3.50	220.00
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset: darrah_wyly a 3.db: field/well/stack/pass5.1
Total length: 34.75 ft
Total weight: 620.00 lb
O.D.: 4.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\darrah_wyly a 3.db
Dataset field/well/stack/pass5.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	110	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	0	0	0	-110	30	Off	3351

Variable Description

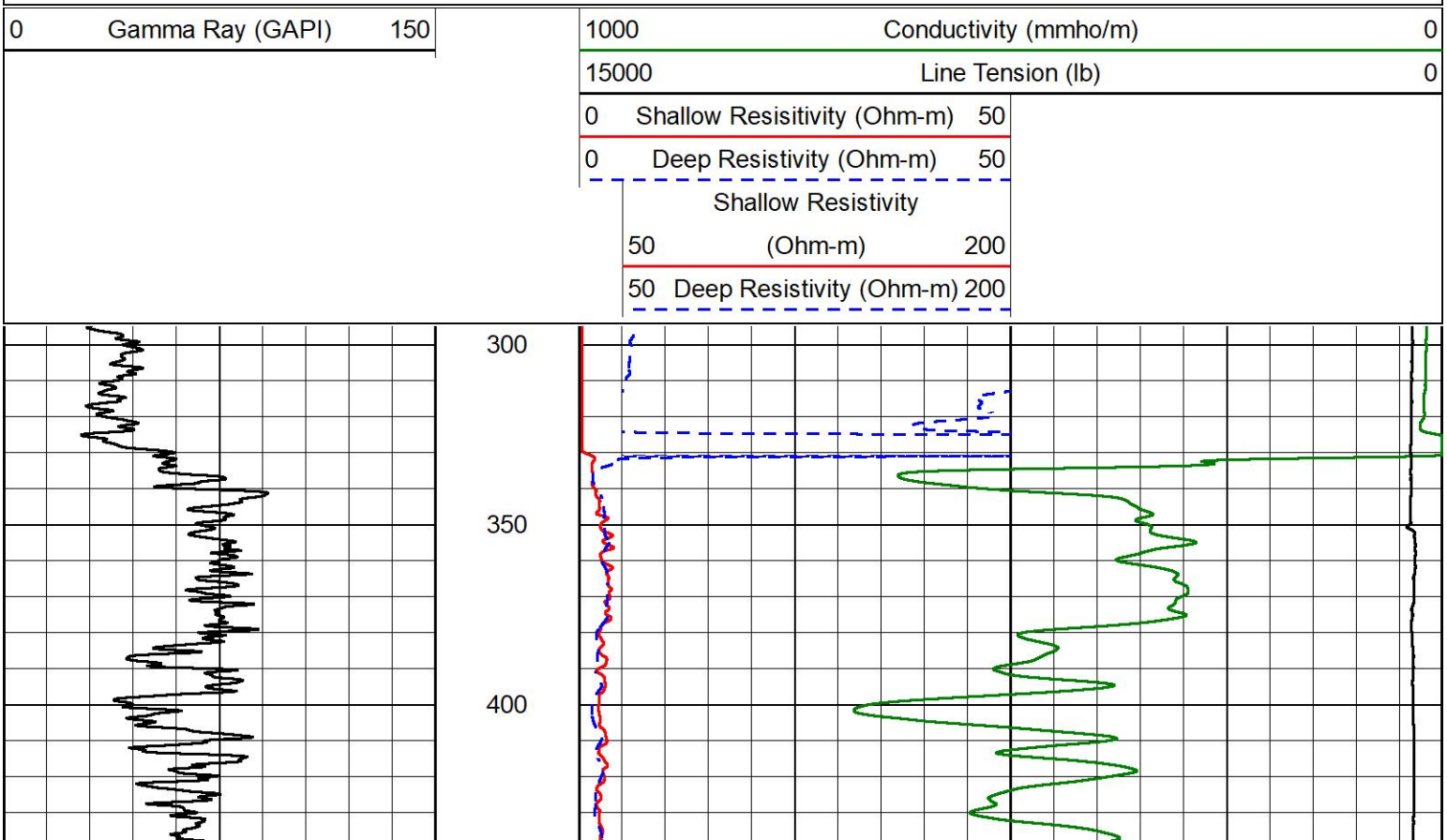
A : Cement Factor (a)
BOREID : Borehole I.D.
BOTTEMP : Bottom Hole Temperature
CASEOD : Casing O.D.
CASETHCK : Casing Thickness
FLUIDDEN : Fluid Density
M : Cement Exp (m)
MATRXDEN : Matrix Density
NPORSEL : Neutron Porosity Curve Select
PERFS : Perforation Flag
SNDERR : Deep Sonde Error Correction
SNDERRM : Medium Sonde Error Correction
SPSHIFT : S.P. Baseline Offset
SRFTEMP : Surface Temperature
SZCOR : CN Size Cor. ?
TDEPTH : Total Depth

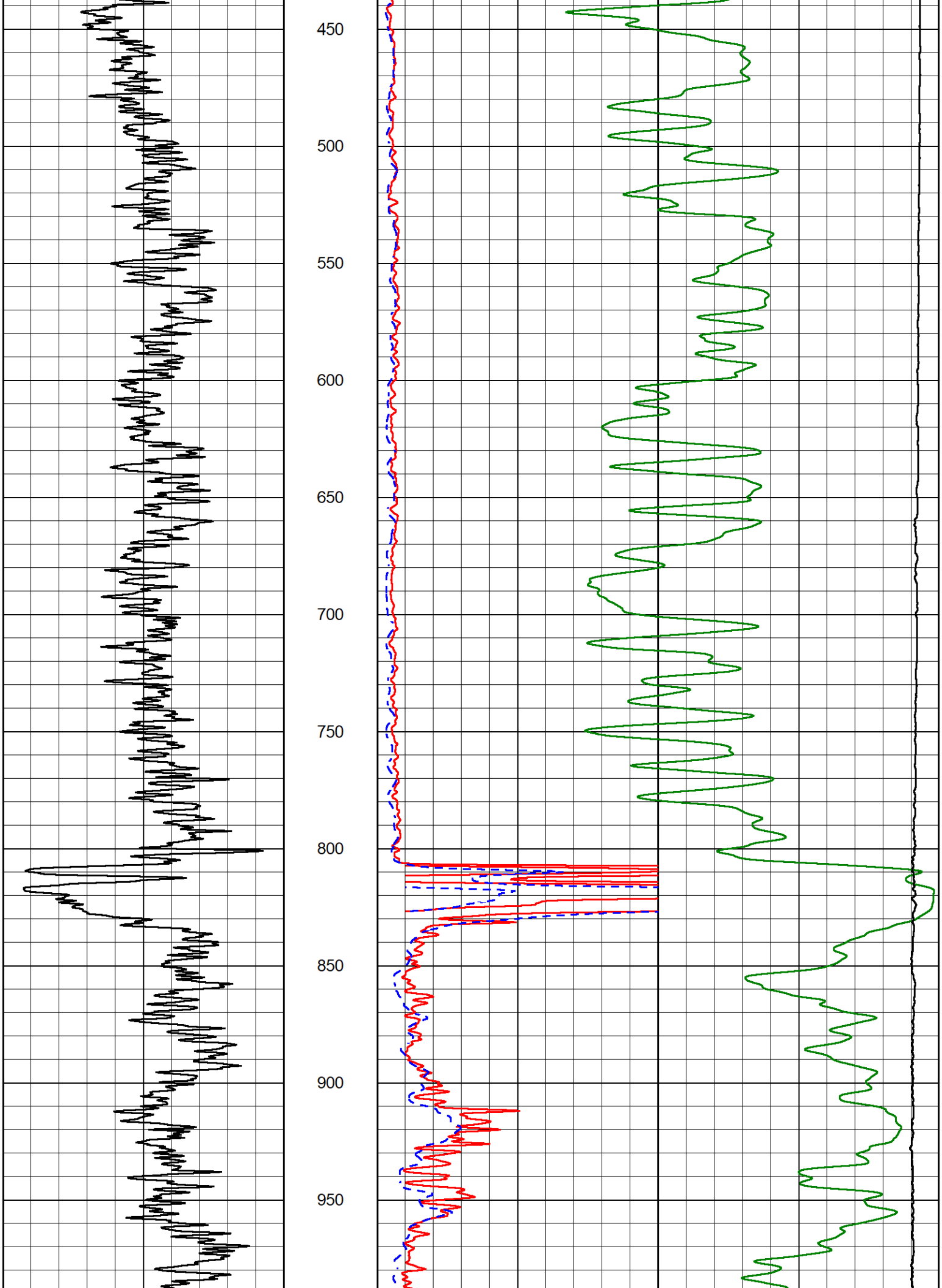
MIDWEST WIRELINE

2" SCALE RESISTIVITY

MAIN PASS

Database File	darrah_wyly a 3.db
Dataset Pathname	stack/pass5.3
Presentation Format	_dil2in
Dataset Creation	Wed Mar 09 12:59:27 2022
Charted by	Depth in Feet scaled 1:600

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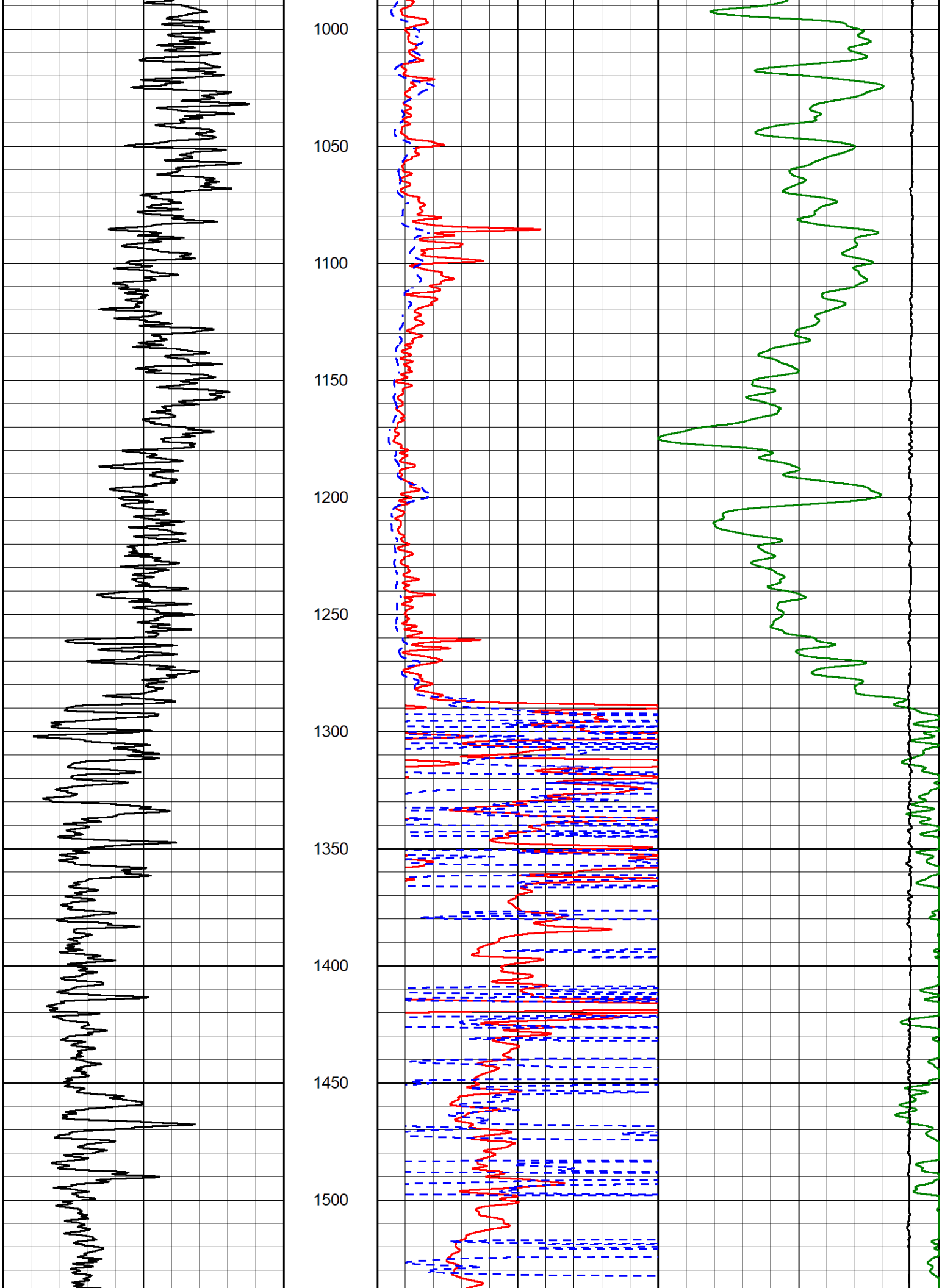
500
550
600
650
700
750
800
850
900
950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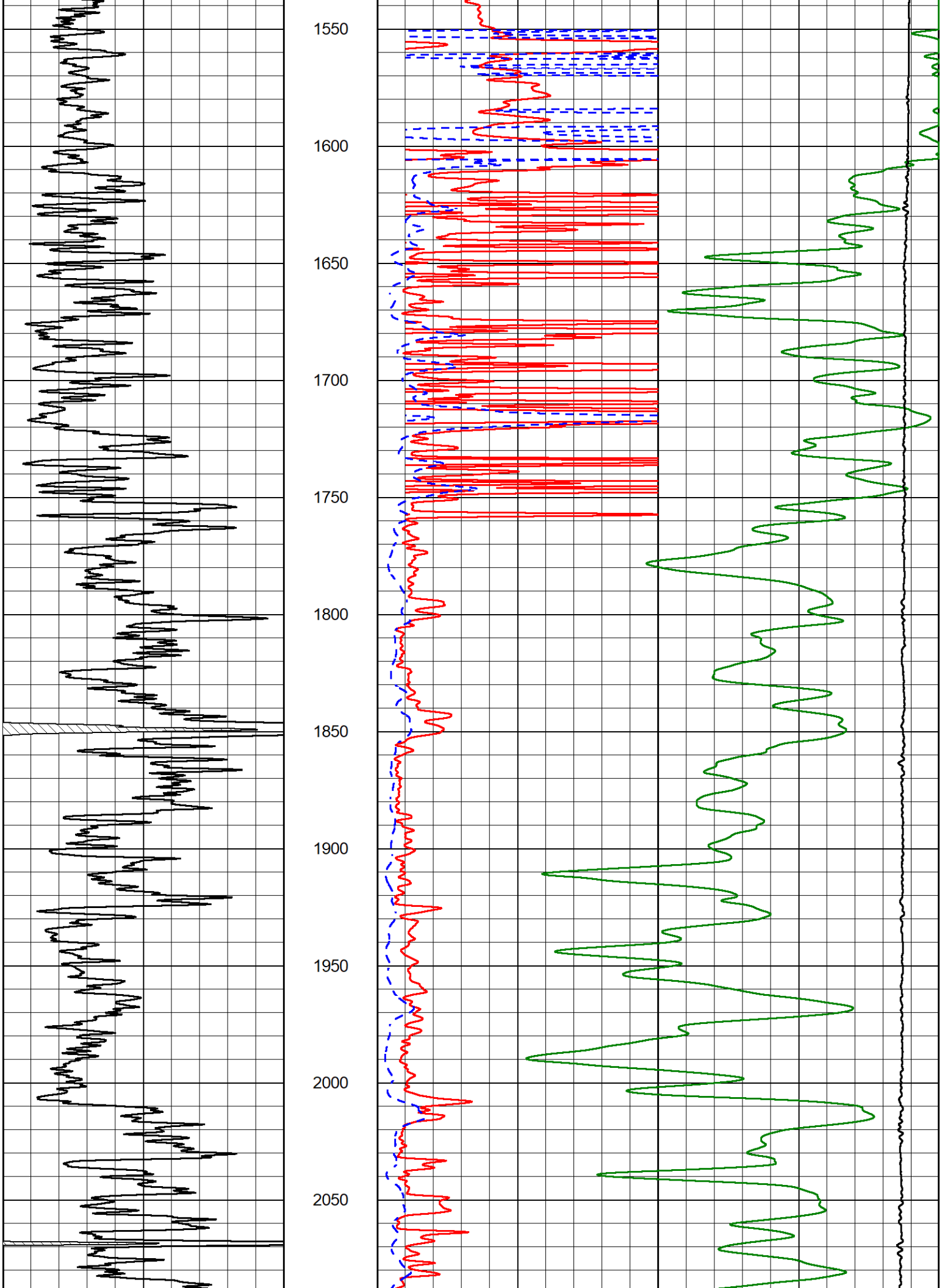
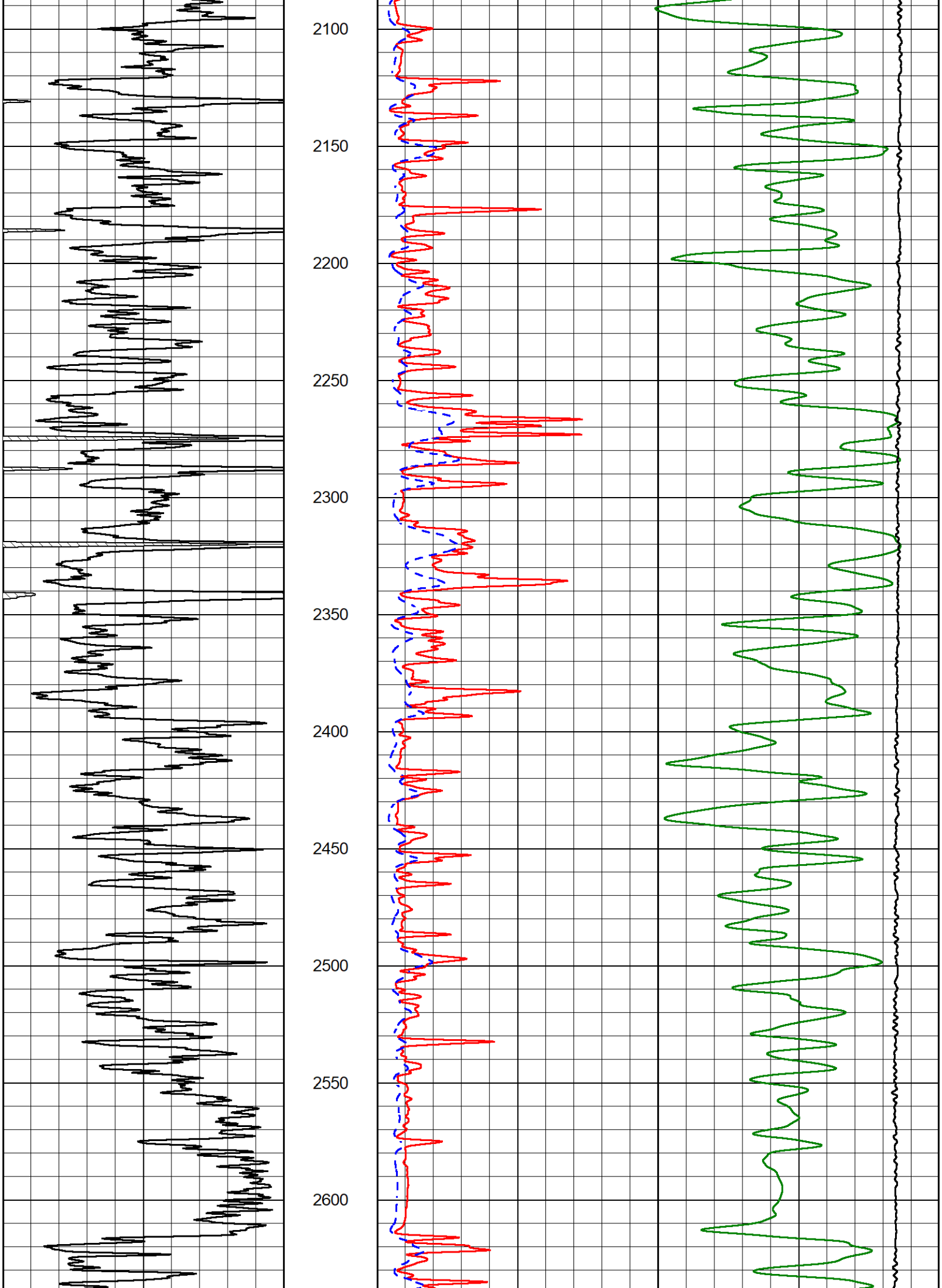
1100
1150
1200
1250
1300
1350
1400
1450
1500


1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050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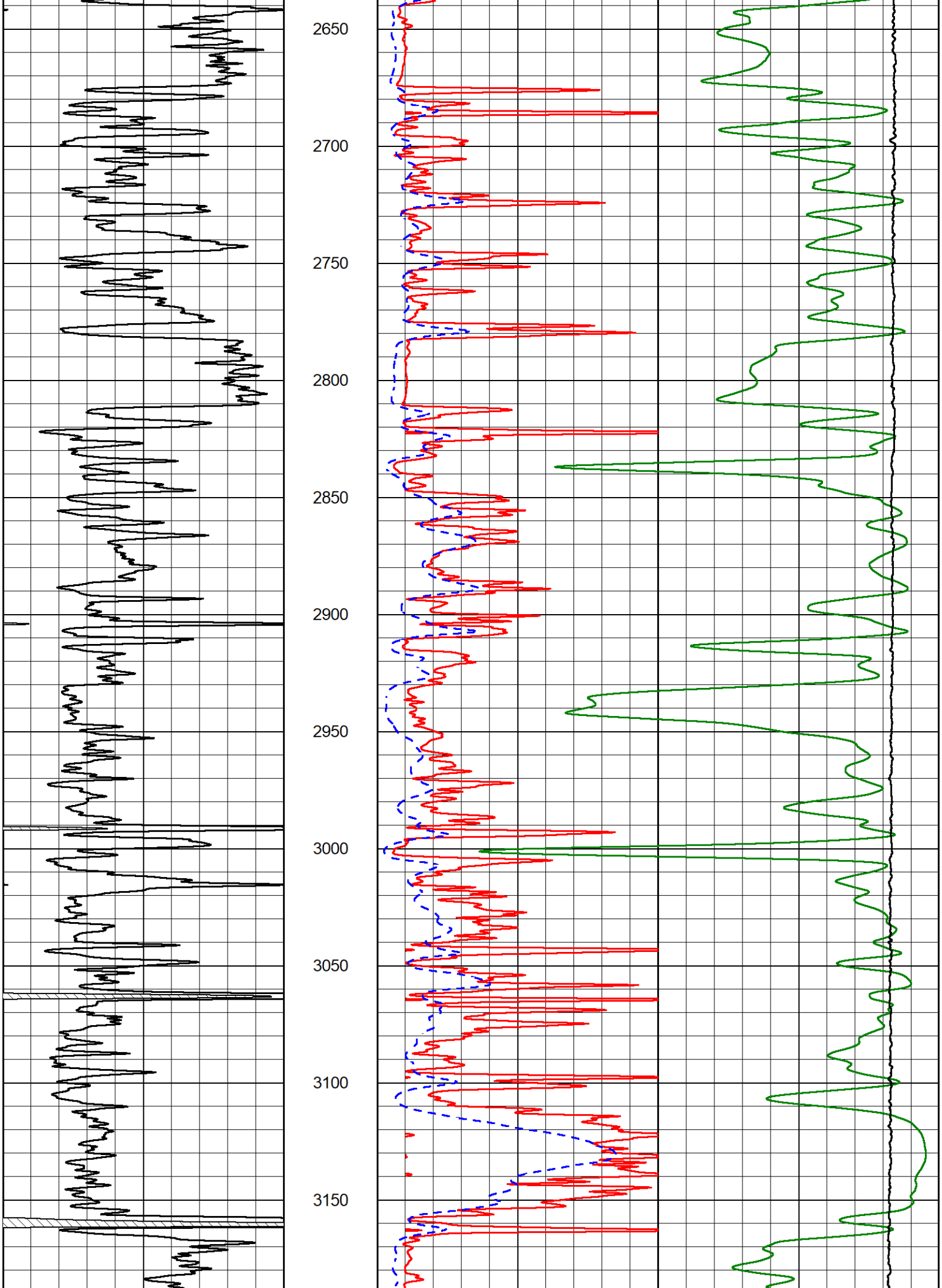
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600


2650
2700
2750
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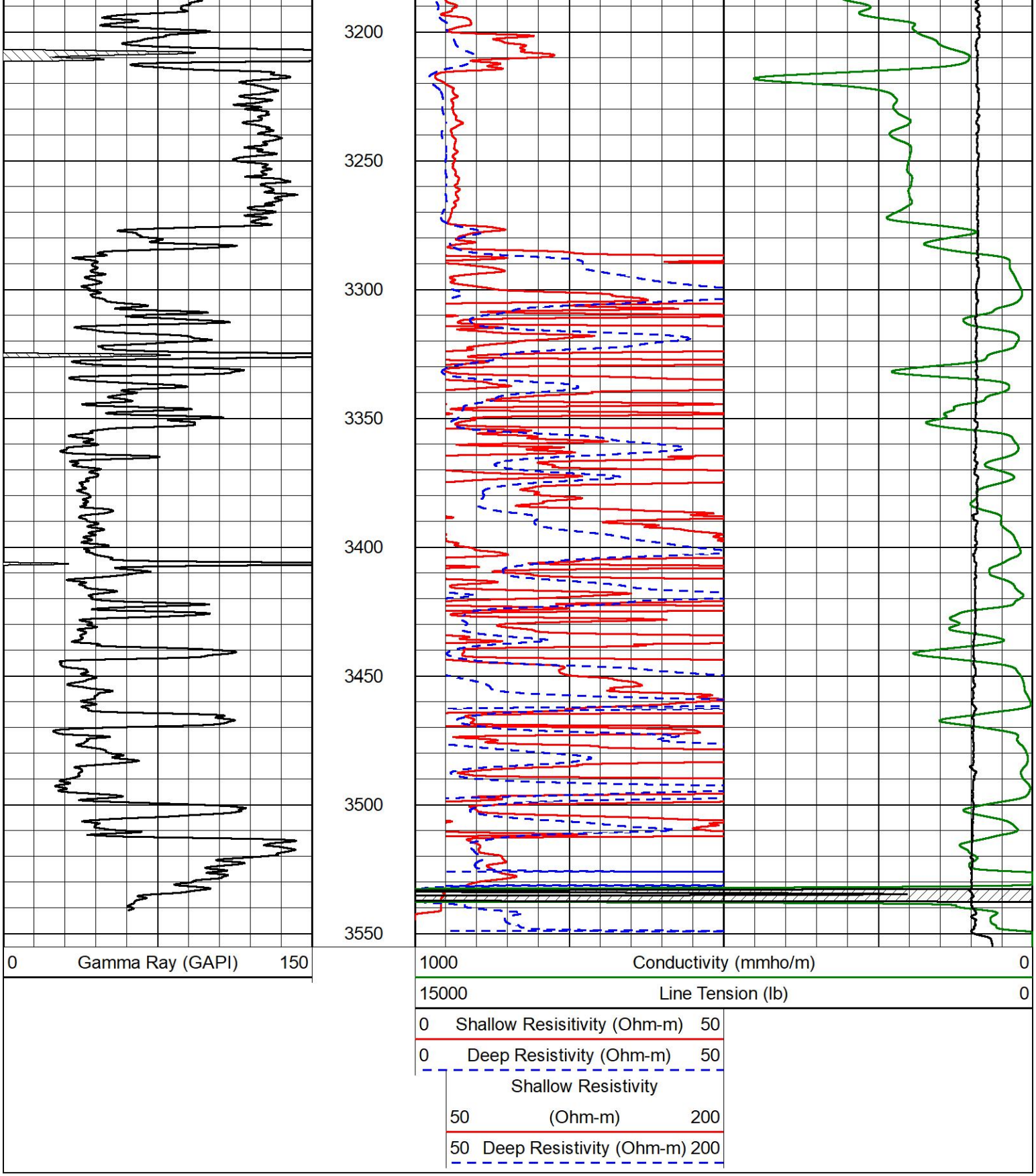
2850
2900
2950
3000
3050
3100
3150



MIDWEST WIRELINE

ANHYDRITE SECTION

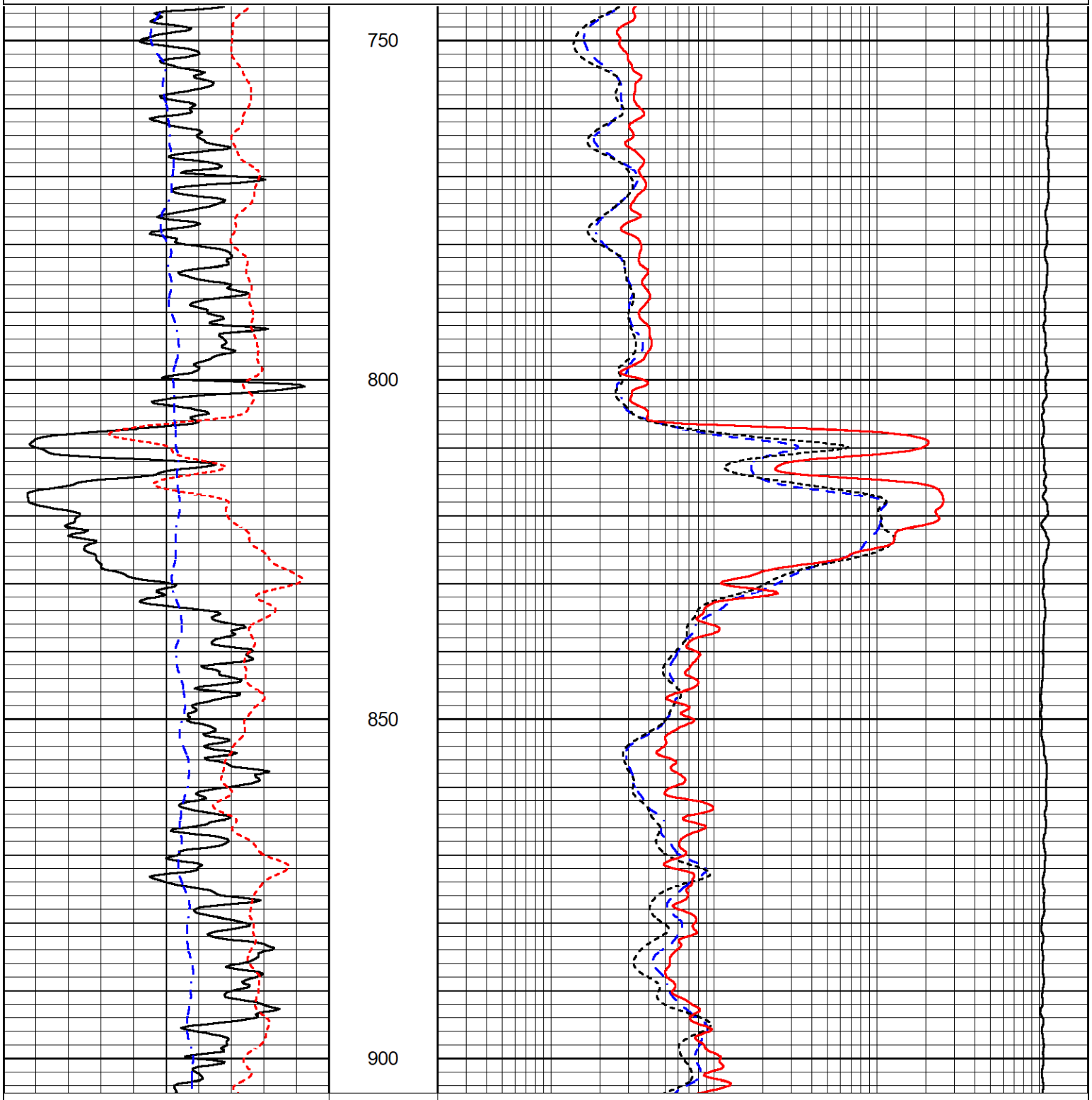
MAIN PASS

Database File	darrah_wyly a 3.db
Dataset Pathname	stack/pass5.4
Presentation Format	_dil
Dataset Creation	Wed Mar 09 12:59:33 2022

Dataset Creation Wed Mar 09 12:59:33 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



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

DETAIL SECTION

MIDWEST WIRELINE

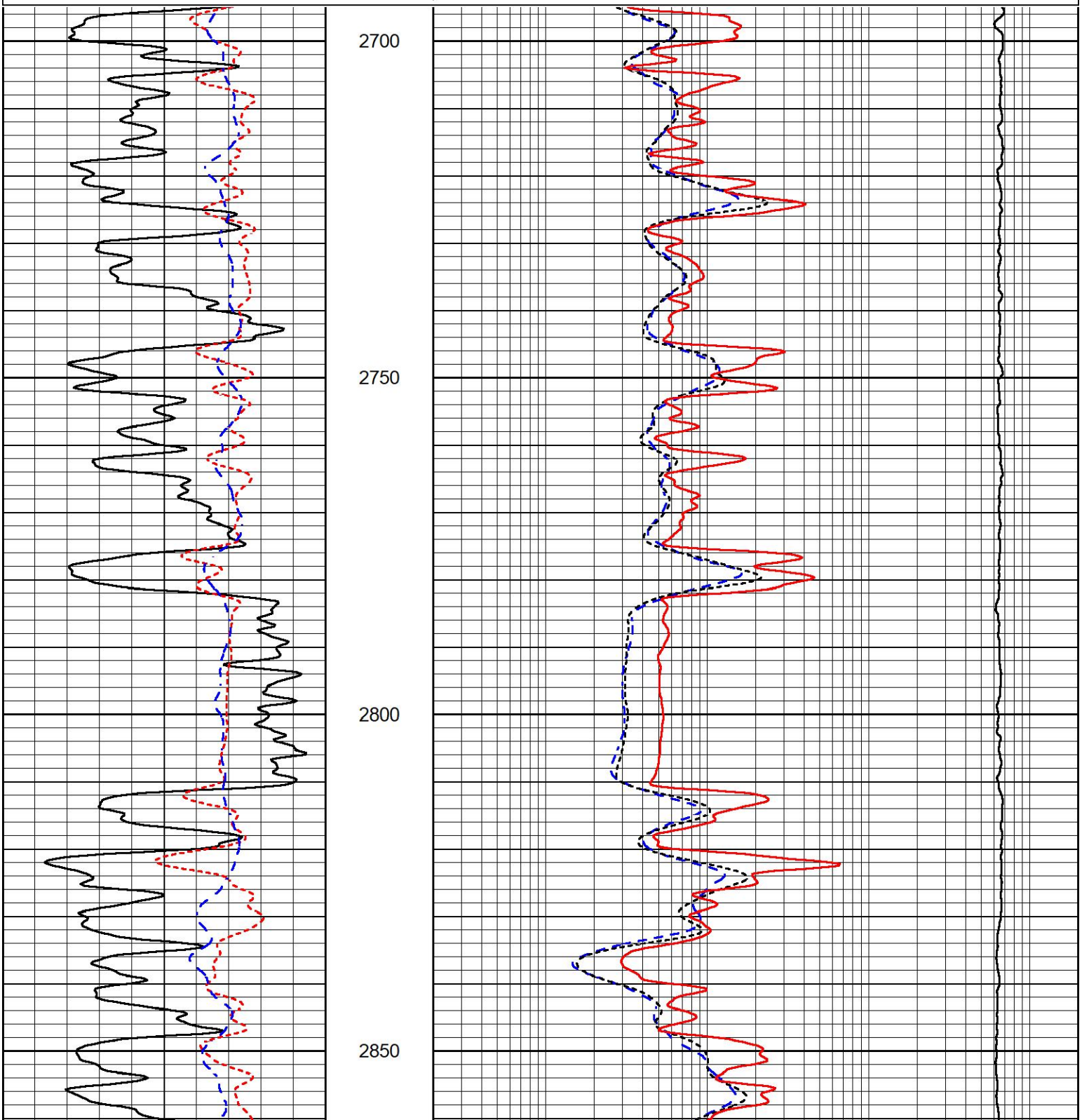
DETAIL SECTION

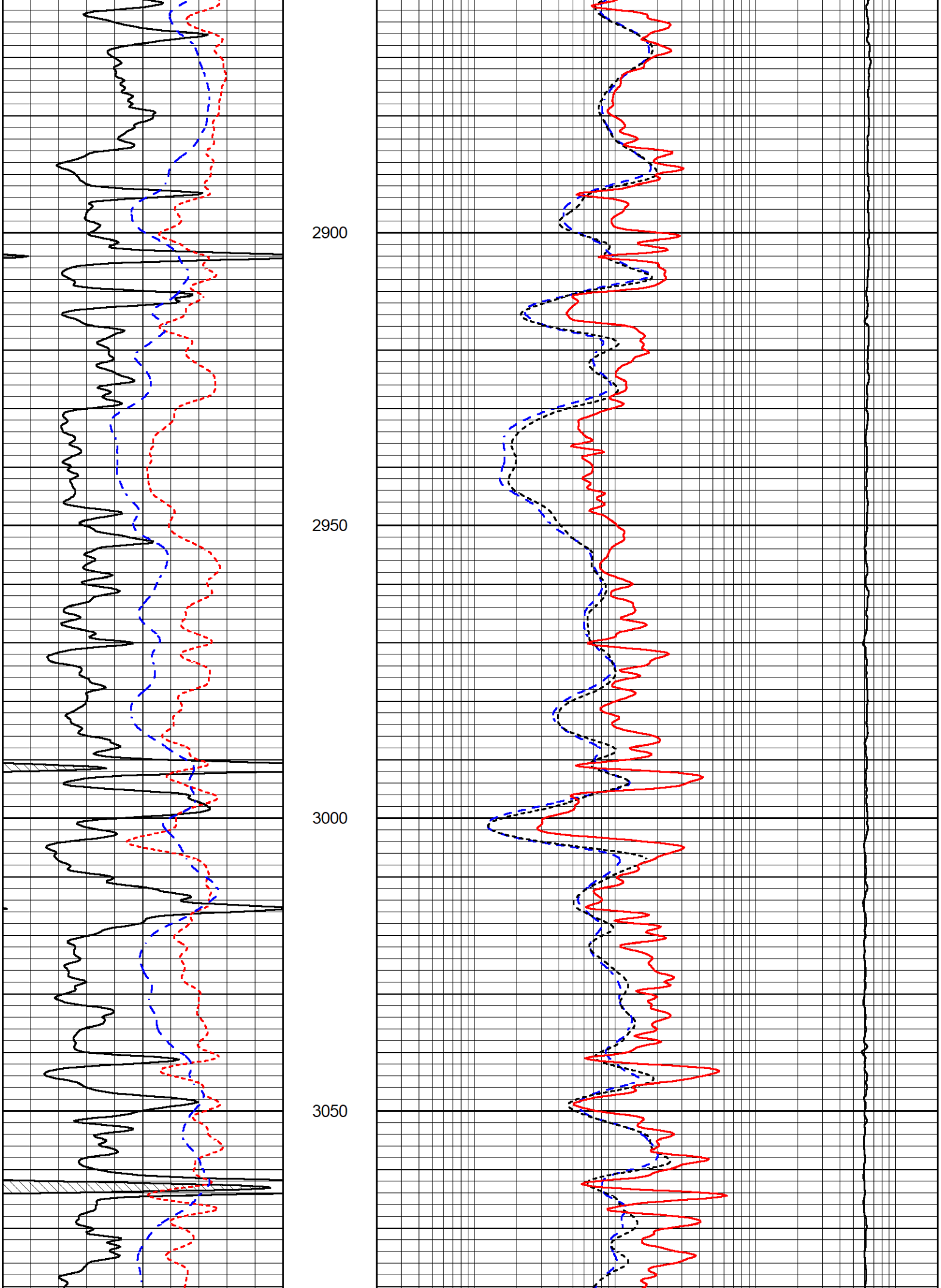
MAIN PASS

Database File	darrah_wyly a 3.db
Dataset Pathname	stack/pass5.1
Presentation Format	_dil
Dataset Creation	Wed Mar 09 12:54:59 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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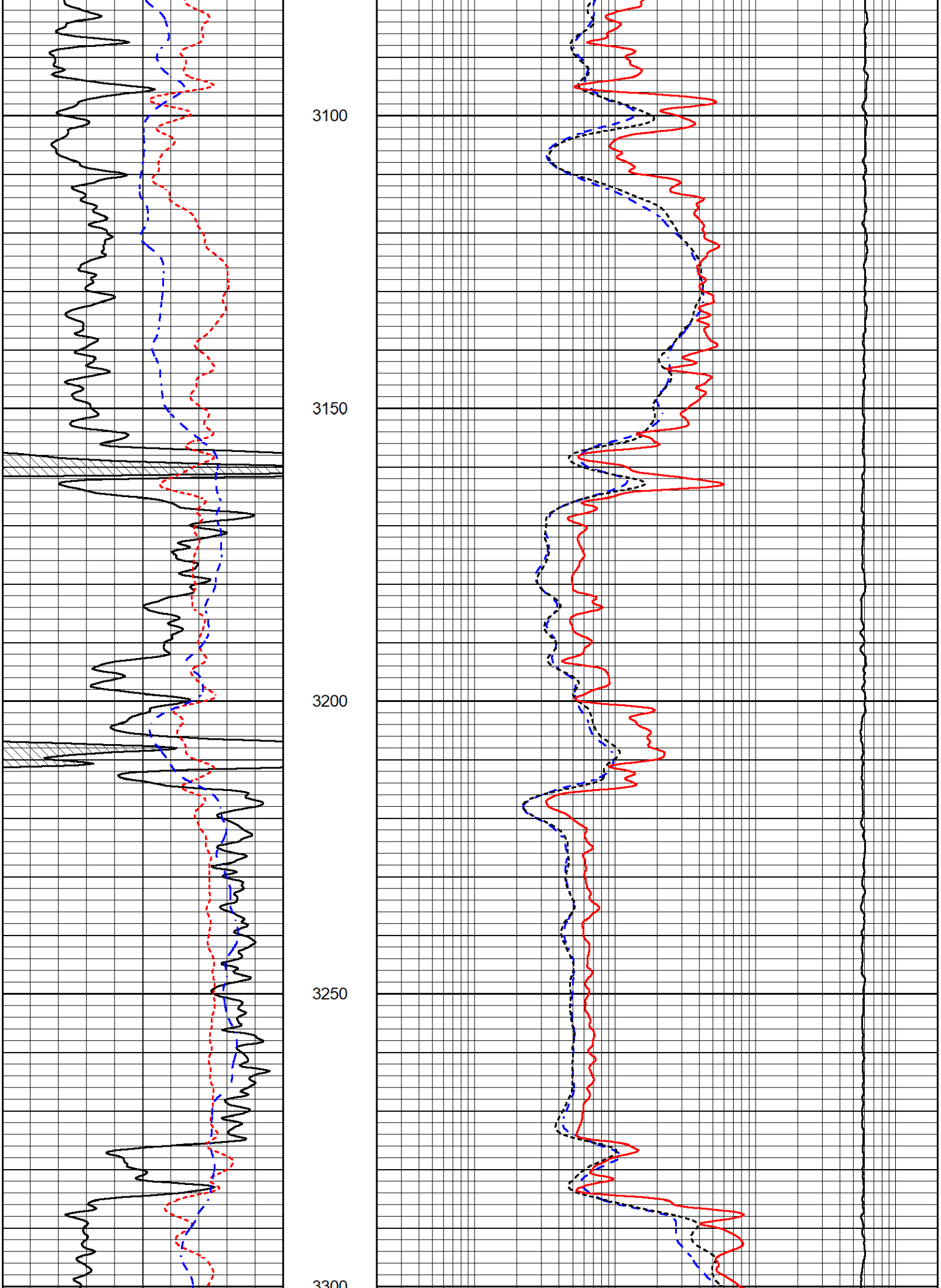
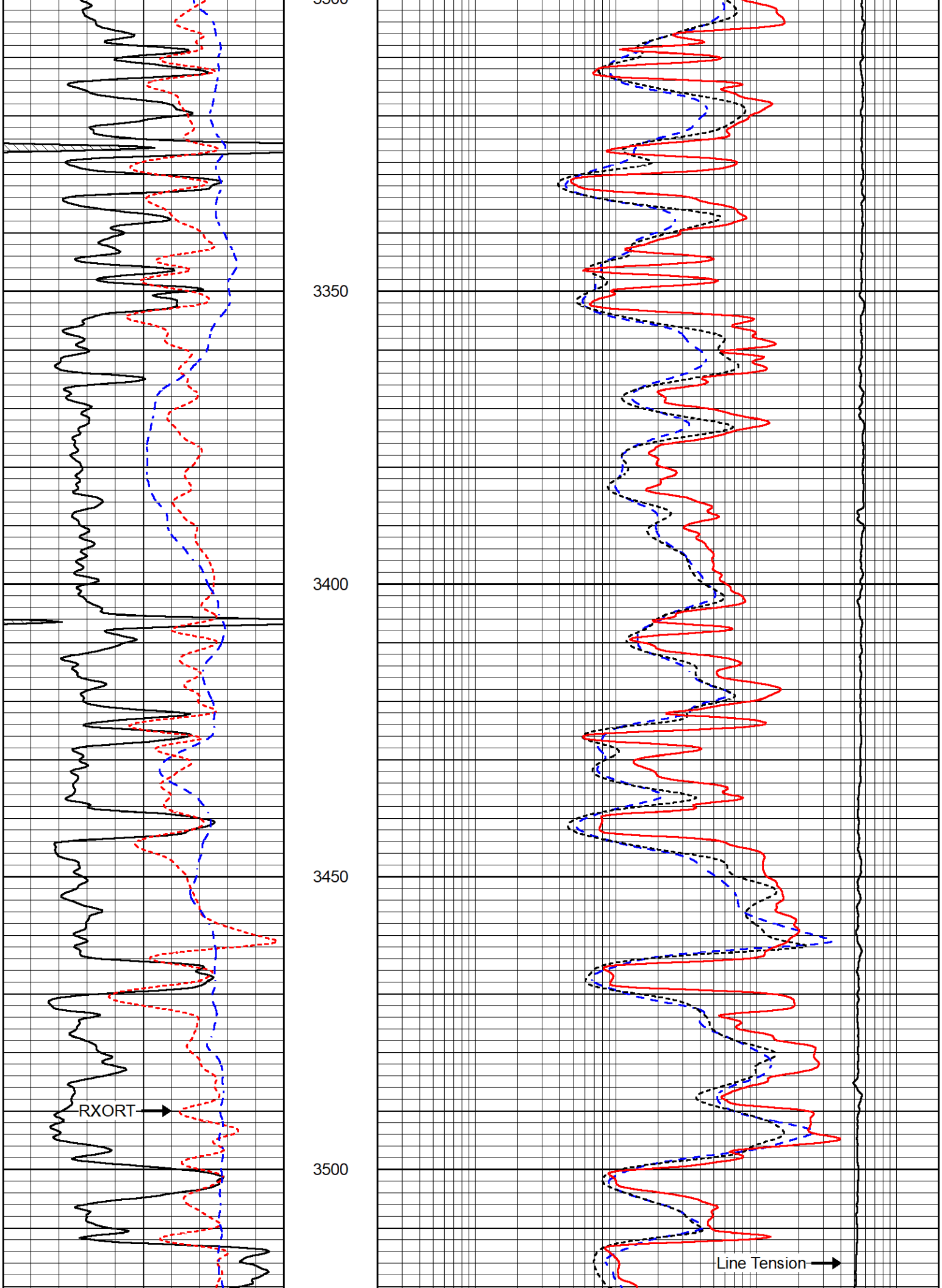
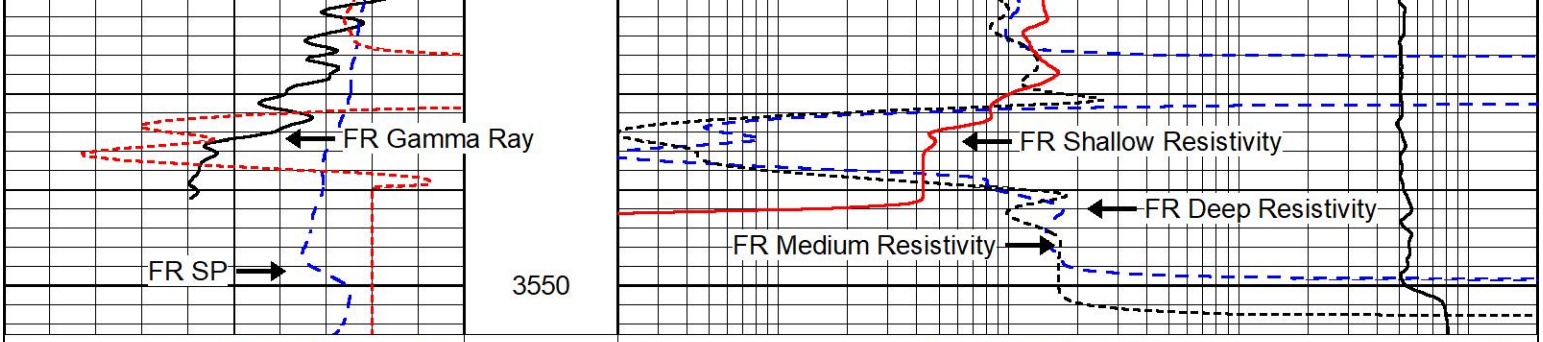
3050


3100
3150
3200
3250
3300


3350
3400
3450
3500
RXORT
Line Tension



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

MIDWEST WIRELINE

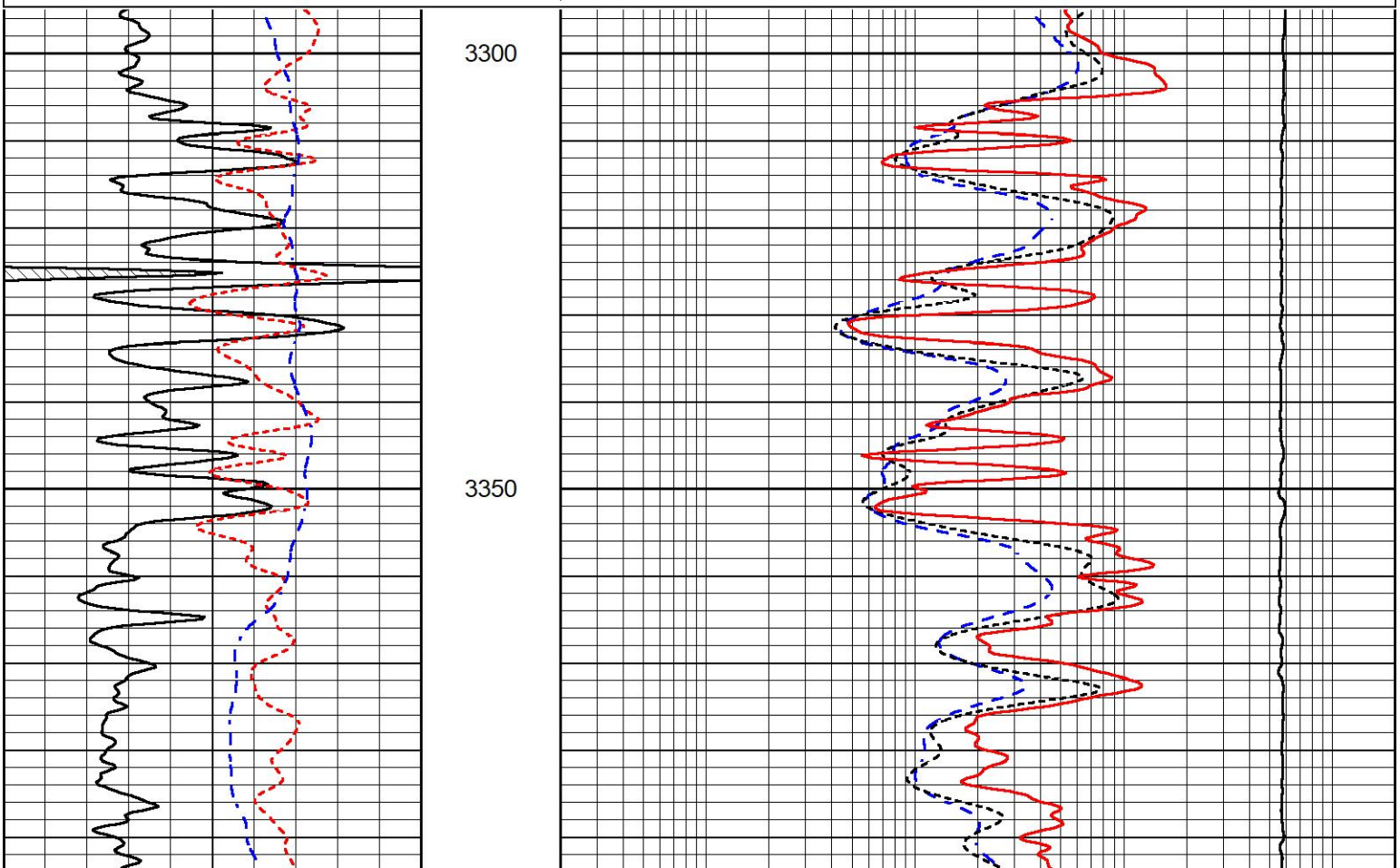
REPEAT SECTION

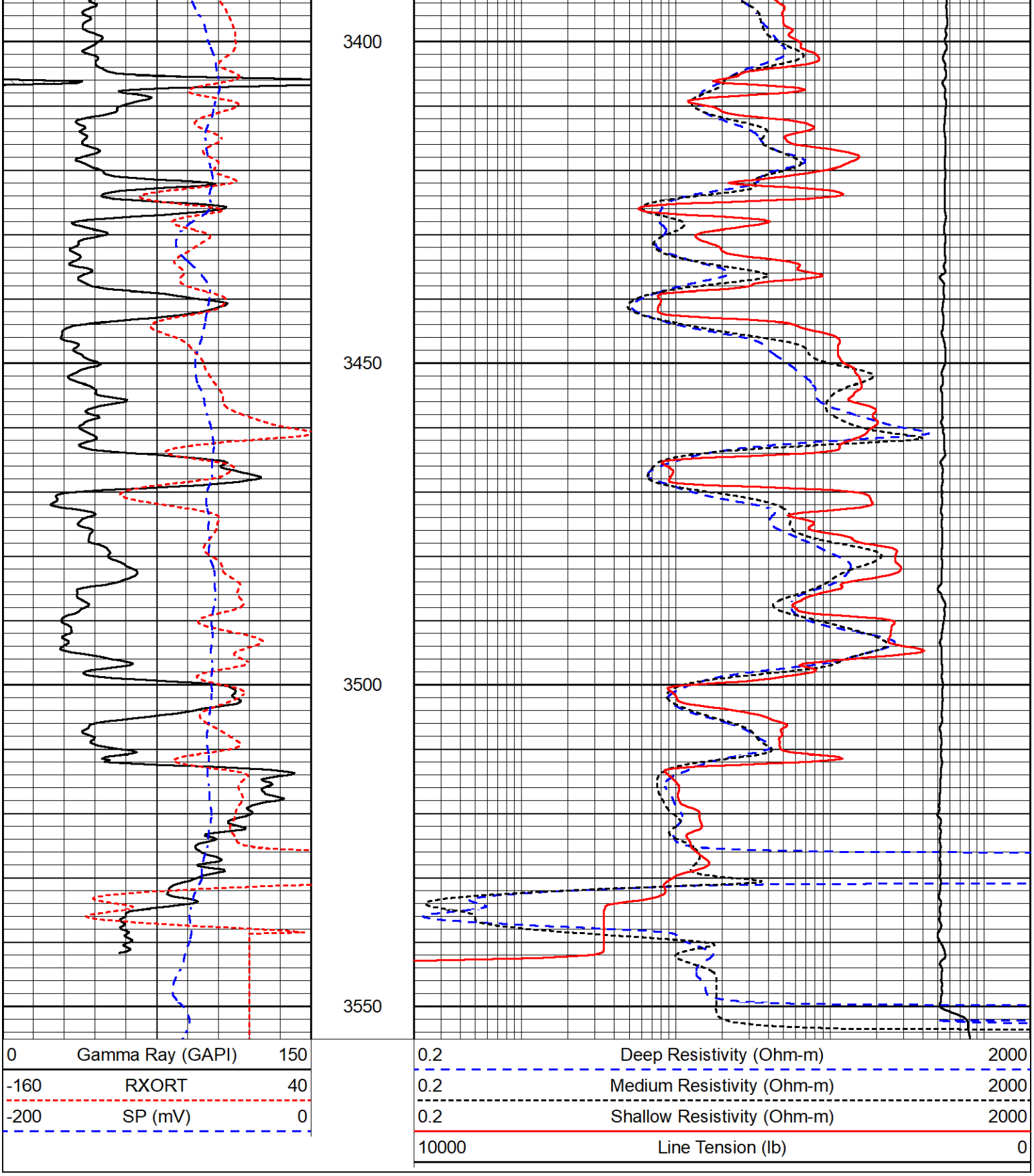
REPEAT PASS

Database File	darrah_wyly a 3.db
Dataset Pathname	stack/pass4.1
Presentation Format	_dil
Dataset Creation	Wed Mar 09 12:07:18 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





Calibration Report

Database File	darrah_wyly a 3.db
Dataset Pathname	stack/pass5.1
Dataset Creation	Wed Mar 09 12:54:59 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	-34.000
Medium	113.335	1585.690	0.000	442.000	mmho/m	0.320	-31.000

Compensated Density Calibration Report

Serial-Model: 305-05-M&W
Source #: 20762B
Master Calibration Performed: Mon Feb 28 14:58:34 2022

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	8758.11	9709.36	cps
Aluminum	2.620	g/cc	1513.14	5652.54	cps

Spine Angle = 72.88 Density/Spine Ratio = 0.471

	Size		Reading
Small Ring	4.00	in	1.75
Large Ring	14.00	in	1.38

Compensated Neutron Calibration Report

Serial-Model: 207-MW-M&W
Source #: 100046B
Master Calibration Performed: 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	Darrah Oil Company, LLC
Well	Wyly A #3
Field	Pritchard
County	Barton
State	

MIDWEST WIRELINE	State	Kansas