MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Griffin Management
Well Olivia #1
Field Unnamed
County Pratt
State Kansas

Company Griffin Management
Well Olivia #1
Field Unnamed
County Pratt State Kansas

Location: API # : 15-151-22541-00-00
2310 FSL & 120 FEL
SEC 30 TWP 29S RGE 15W

Other Services
CNL/CDL
MEL

Permanent Datum Ground Level Elevation 2035
Log Measured From Kelly Bushing
Drilling Measured From Kelly Bushing

Elevation
K.B. 2040
D.F.
G.L. 2035

Date	1/26/2022			
Run Number	One			
Depth Driller	4900			
Depth Logger	4898			
Bottom Logged Interval	4897			
Top Log Interval	200			
Casing Driller	8.625 @ 252			
Casing Logger	240			
Bit Size	7.875			
Type Fluid in Hole	Chemical			
Salinity,ppm CL	7000			
Density / Viscosity	9.3 / 51			
pH / Fluid Loss	10.0 / 8.8			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.55 @ 76			
Rmf @ Meas. Temp	.41 @ 76			
Rmc @ Meas. Temp	.74 @ 76			
Source of Rmf / Rmc	CHARTS			
Rm @ BHT	.33 @ 125			
Operating Rig Time	2 Hours			
Max Rec. Temp. F	125			
Equipment Number	P-108			
Location	HAYS			
Recorded By	J. Henrickson			
Witnessed By	Eli Felts			

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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.

Haviland Kansas
East to 140th, 9 1/2 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: J. Henrickson	Primary Witness: Eli Felts
Operator:	Secondary Witness:
Operator:	Secondary Witness:
Operator:	Secondary Witness:

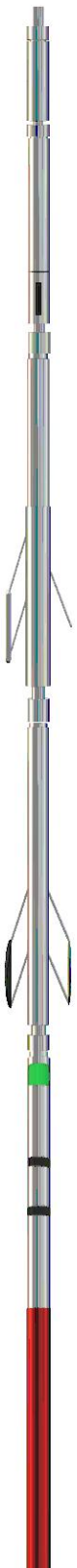
Log Variables

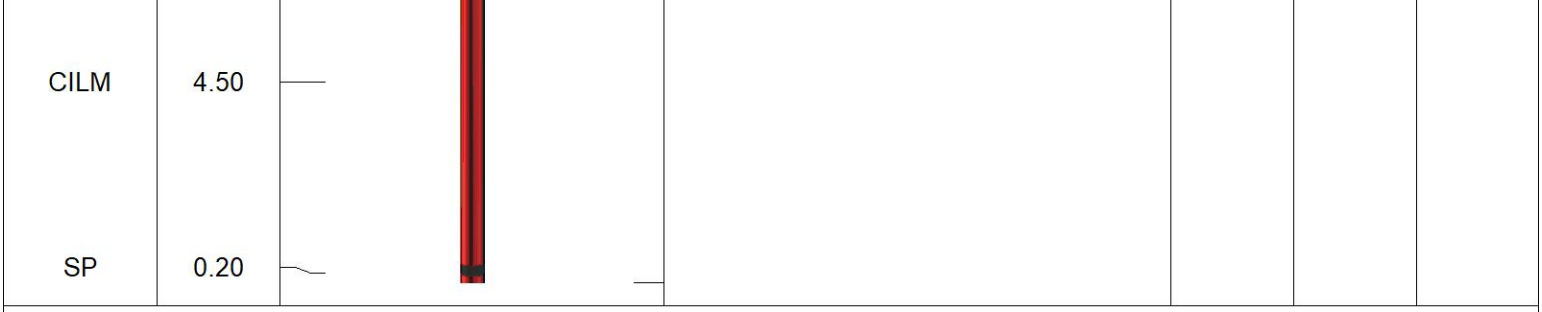
DatabaseC:\ProgramData\Warrior\Data\griffin_olivia_1.db
Dataset field/well/stackml/pass4.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	100	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	560	50	Off	4898

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					
			CDL-M&W (303-03)	8.50	4.00	250.00
LSD	28.18					
DCAL	28.17					
SSD	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					
			DIL-M&W (504 HT)	18.25	3.50	220.00
CILD	8.33					



Dataset: griffin_olivia_1.db: field/well/stackml/pass4.1
Total length: 42.33 ft
Total weight: 685.00 lb
O.D.: 4.00 in

MIDWEST WIRELINE

2" SCALE RESISTIVITY

MAIN PASS

Database File	griffin_olivia_1.db
Dataset Pathname	stackml/pass5.1
Presentation Format	_dil2in
Dataset Creation	Wed Jan 26 20:43:52 2022
Charted by	Depth in Feet scaled 1:600

0 Gamma Ray (GAPI) 150

1000 Conductivity (mmho/m) 0

15000 Line Tension (lb) 0

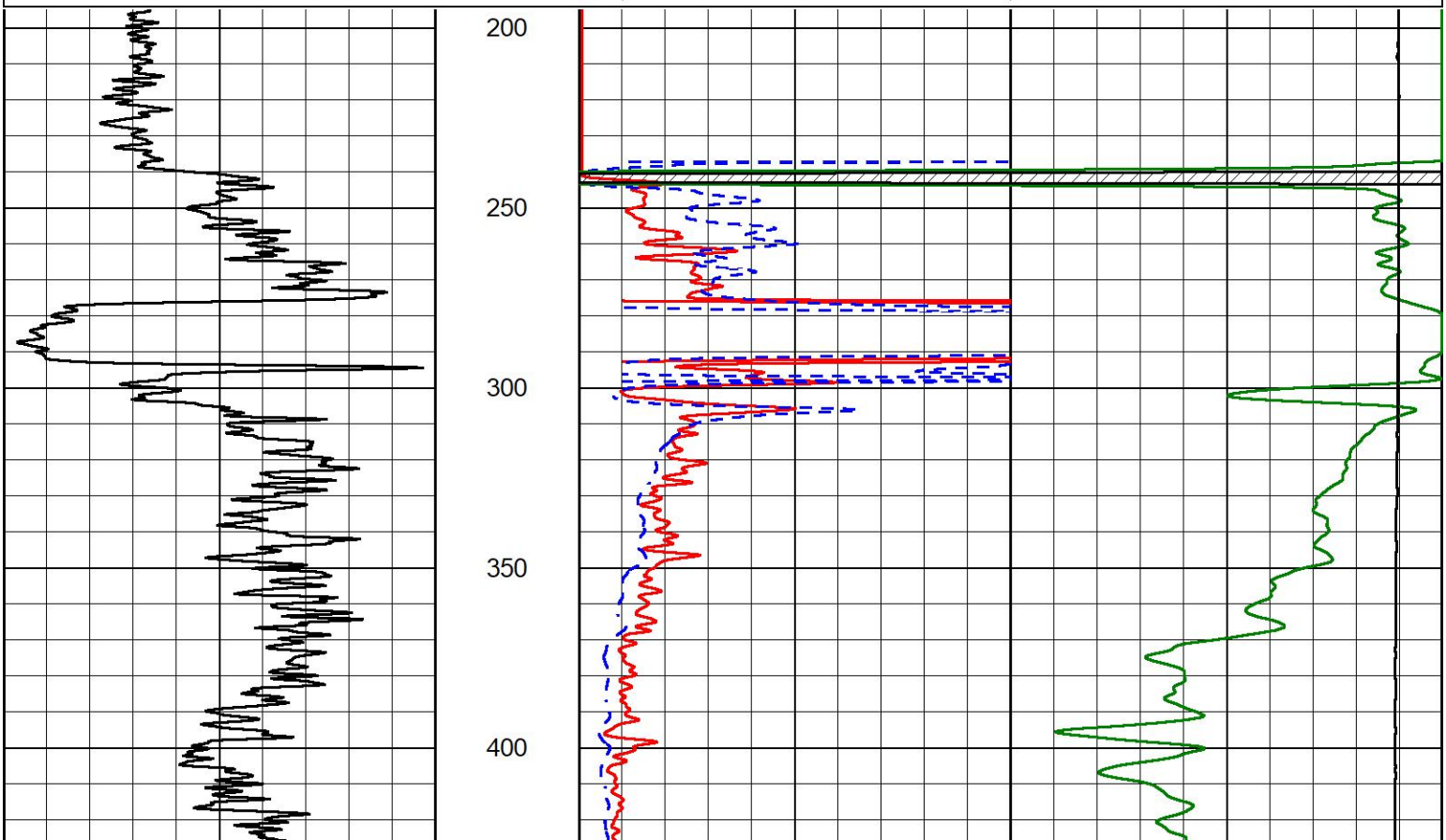
0 Shallow Resisitivity (Ohm-m) 50

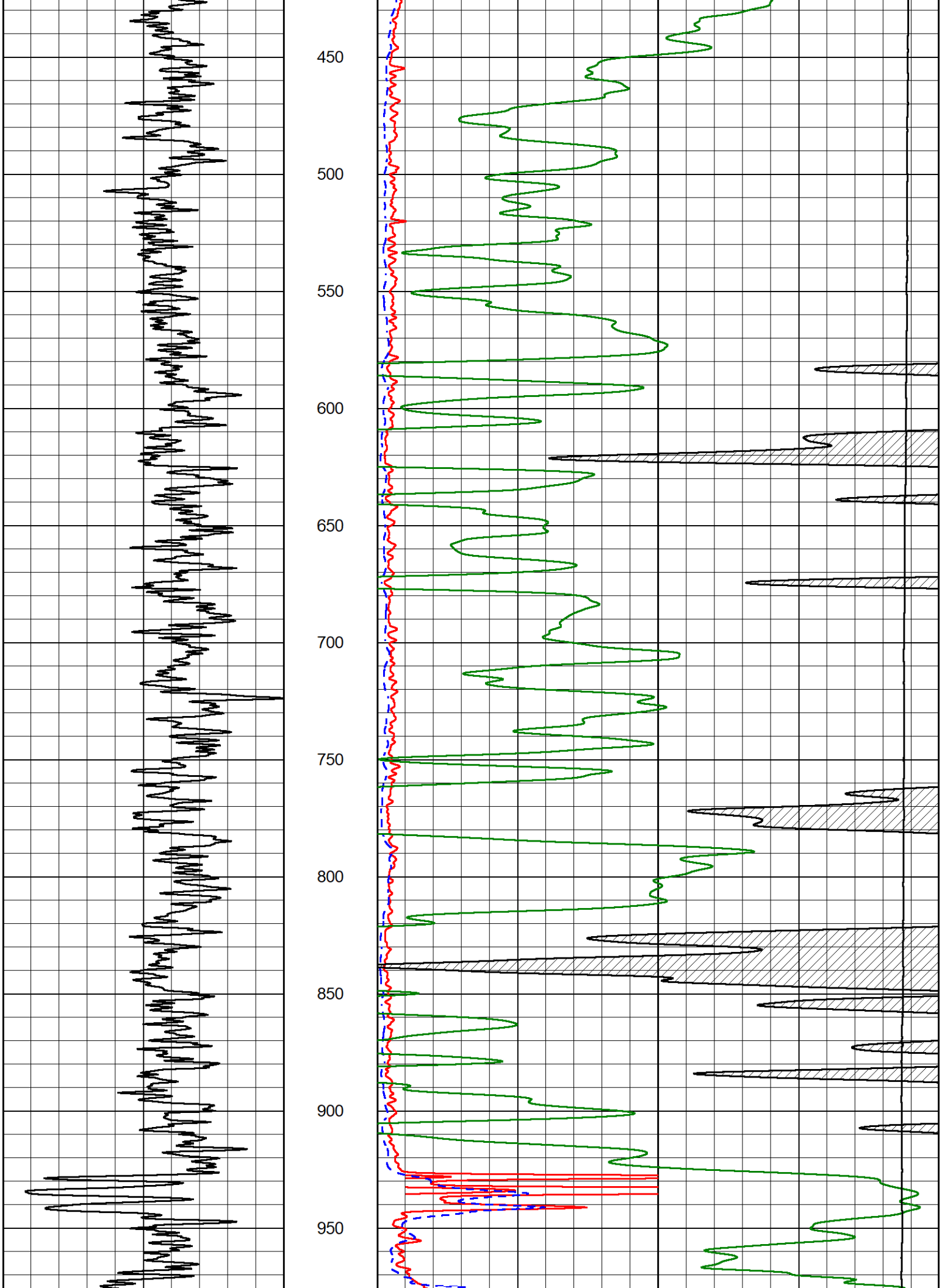
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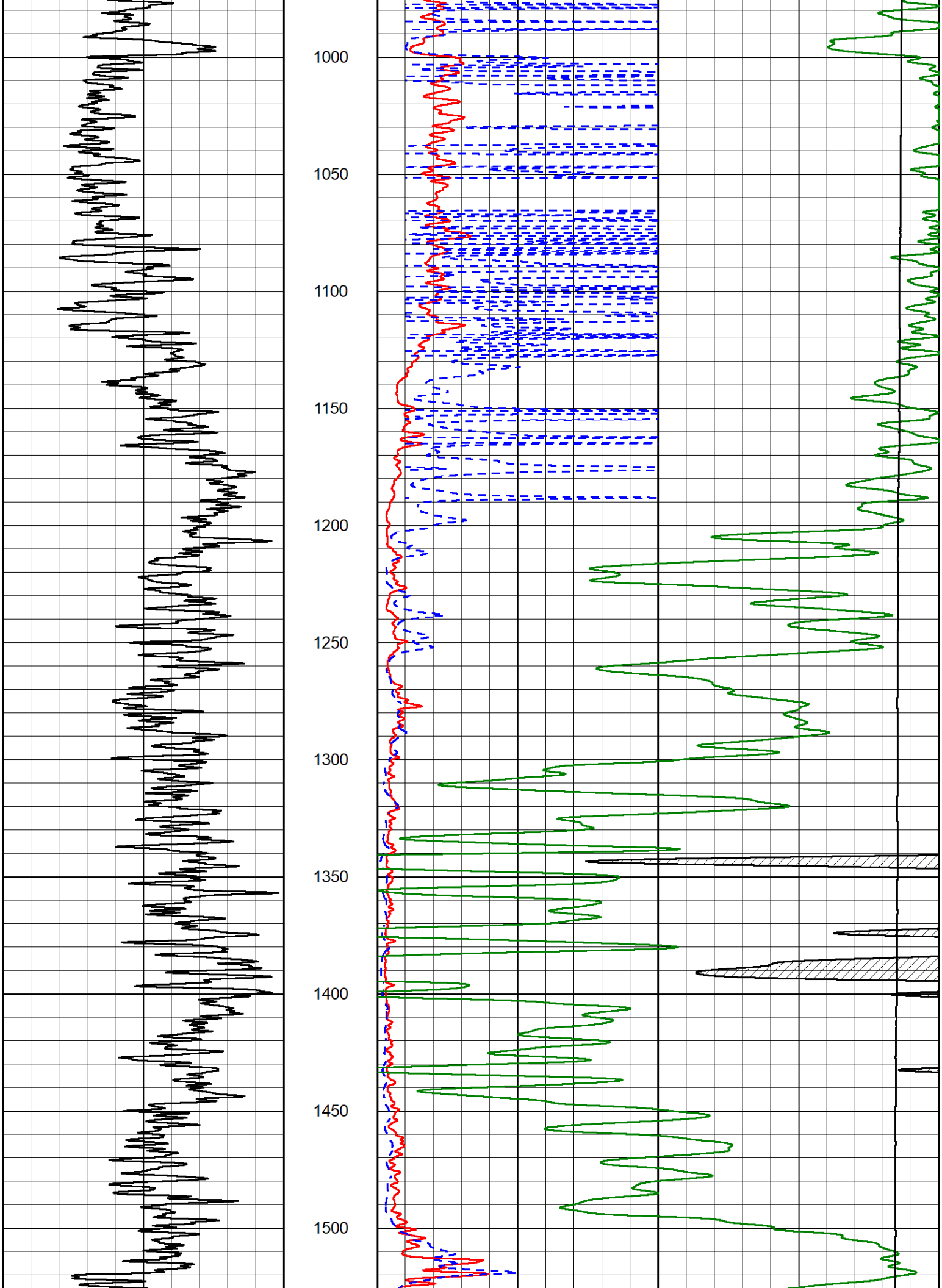
Shallow Resistivity

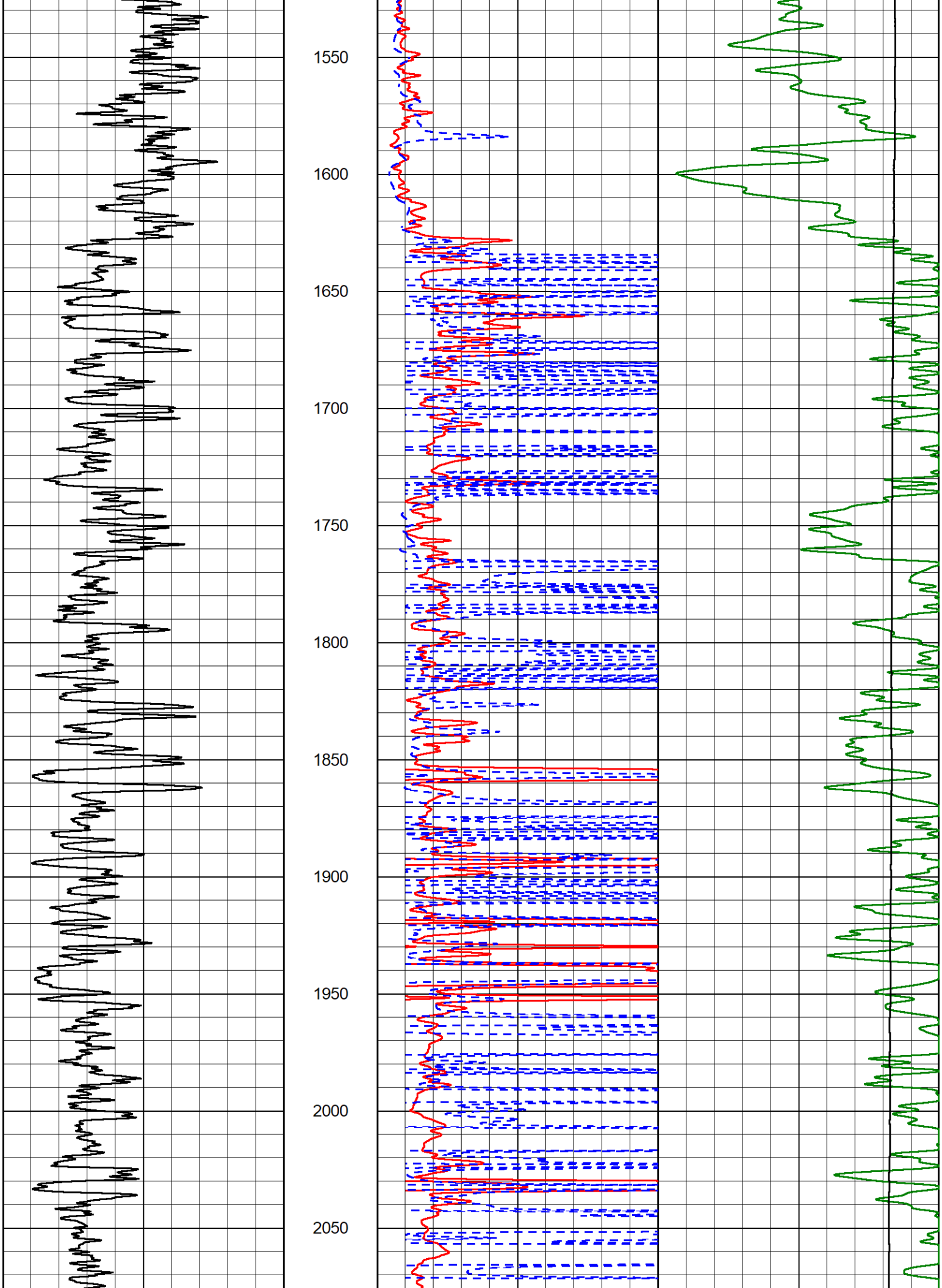
50 (Ohm-m) 200

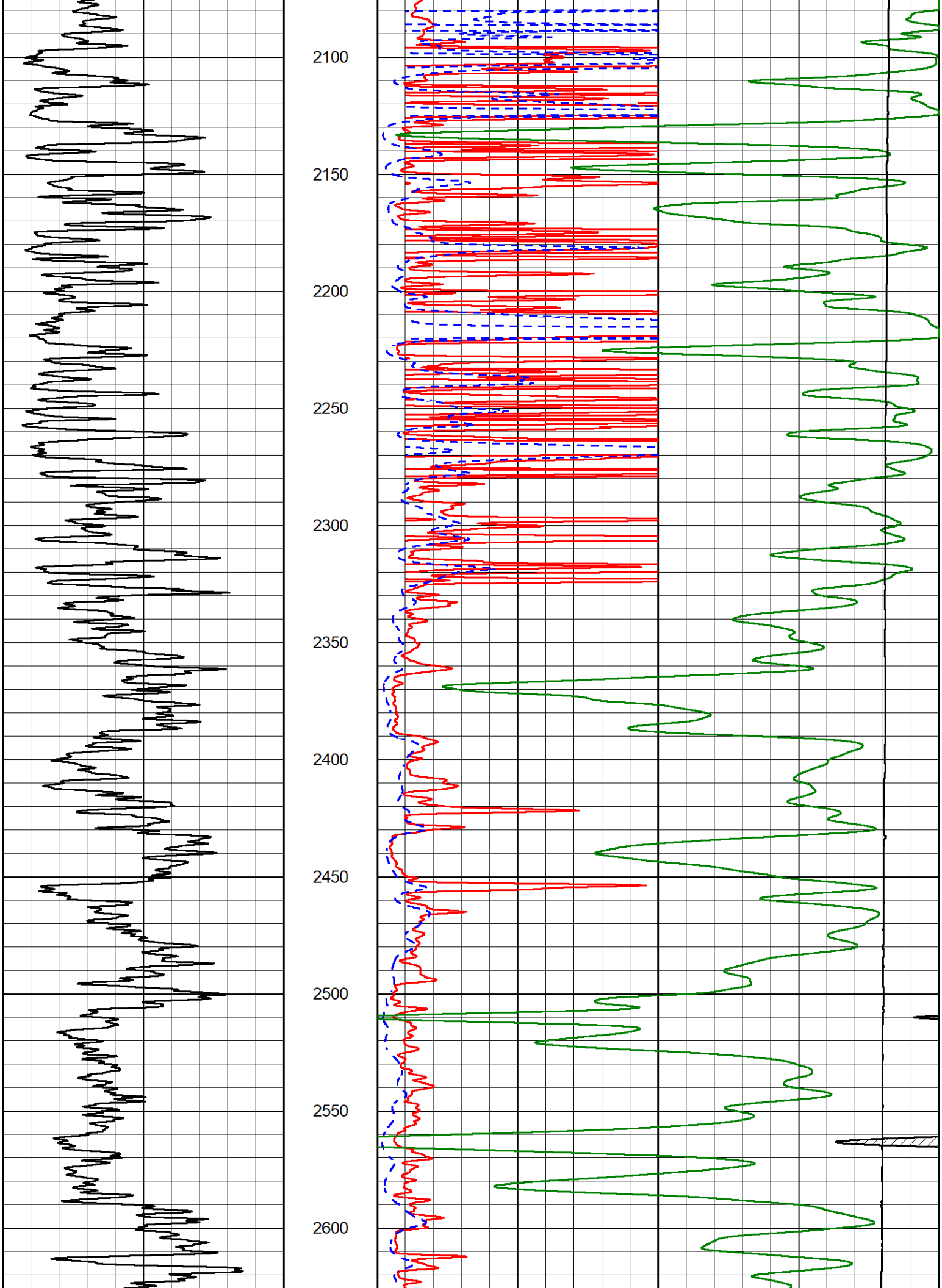
50 Deep Resistivity (Ohm-m) 200

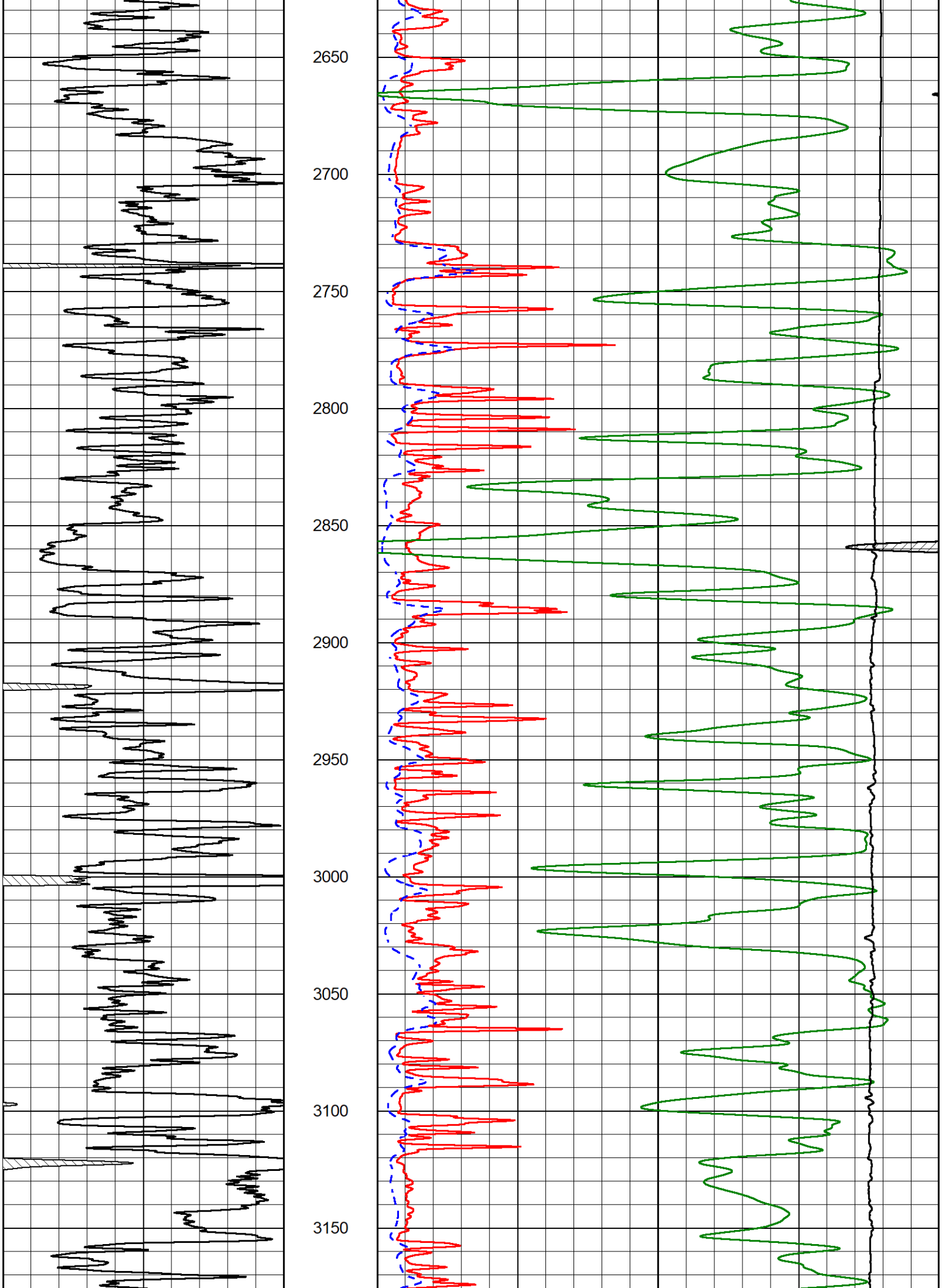


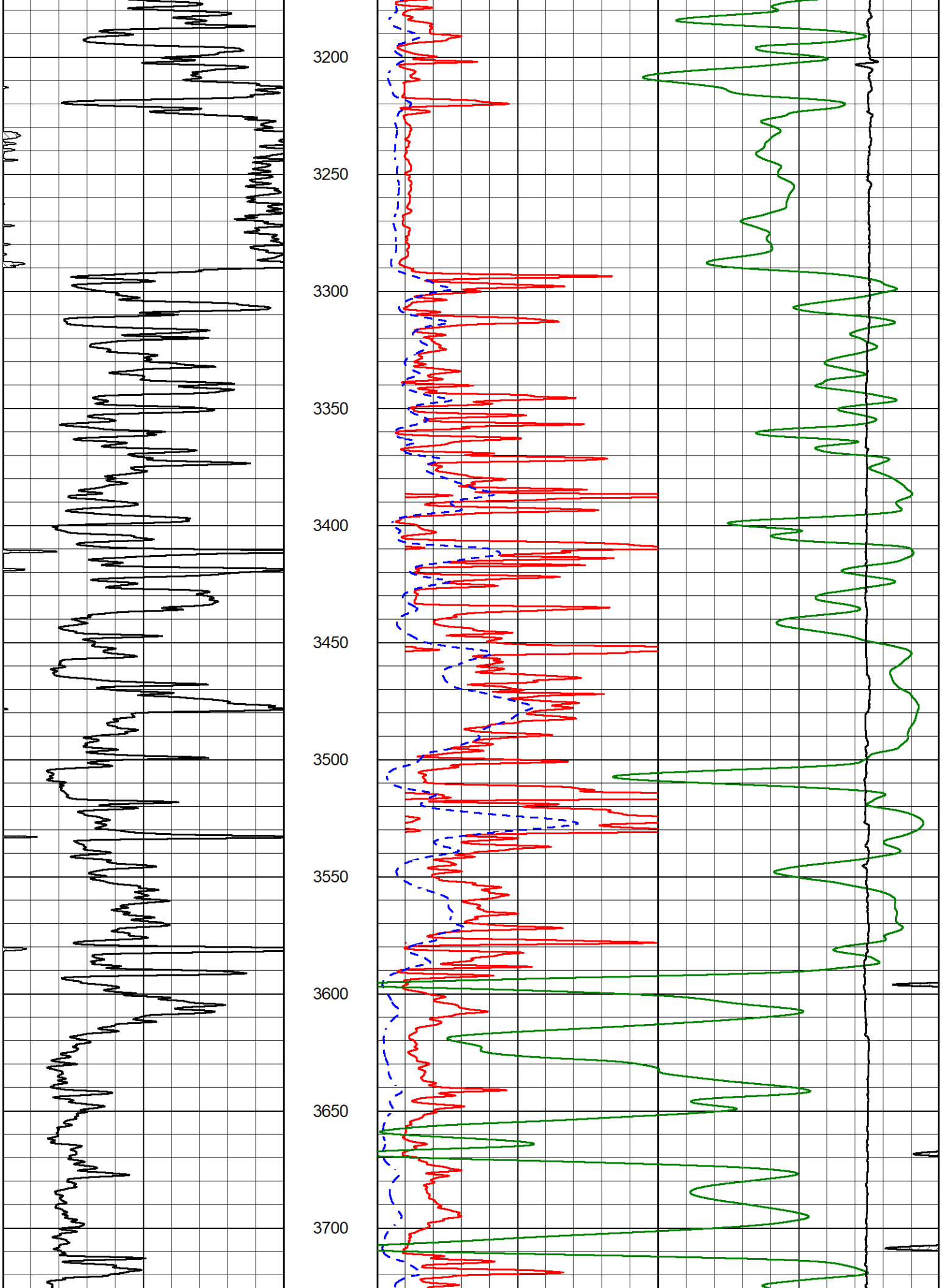

450
500
550
600
650
700
750
800
850
900
950

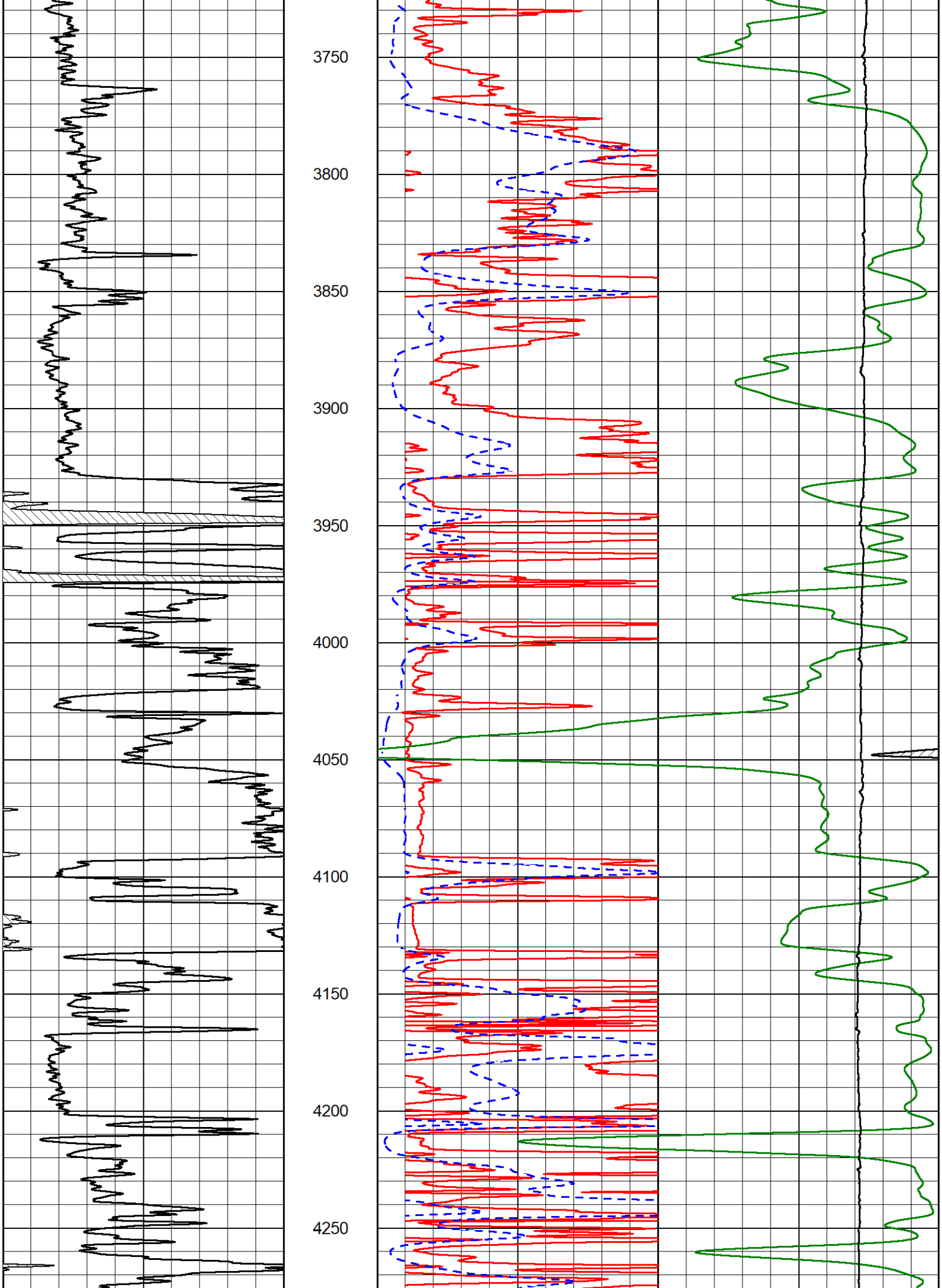

1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500

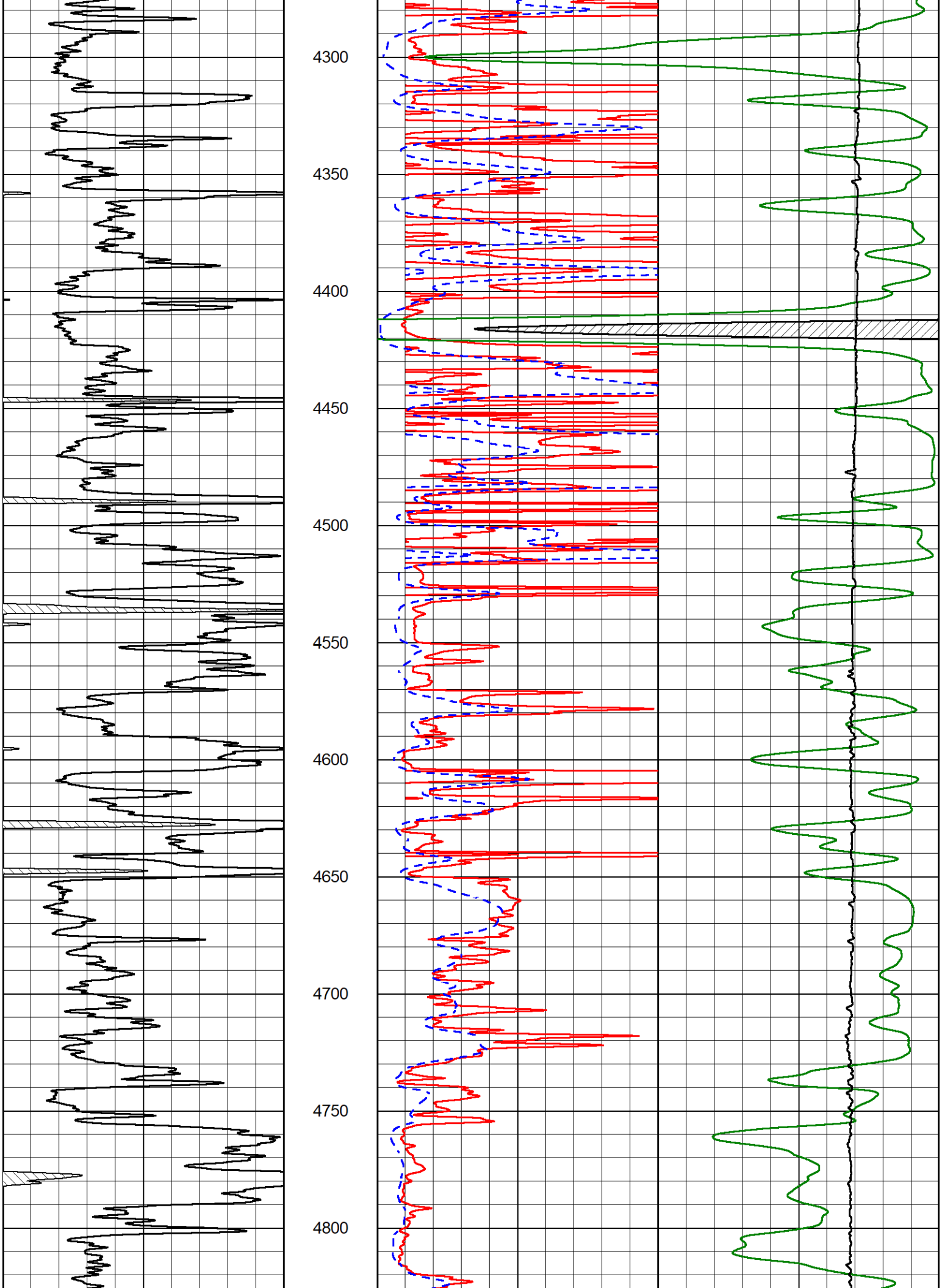

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1600
1650
1700
1750
1800
1850
1900
1950
2000
2050

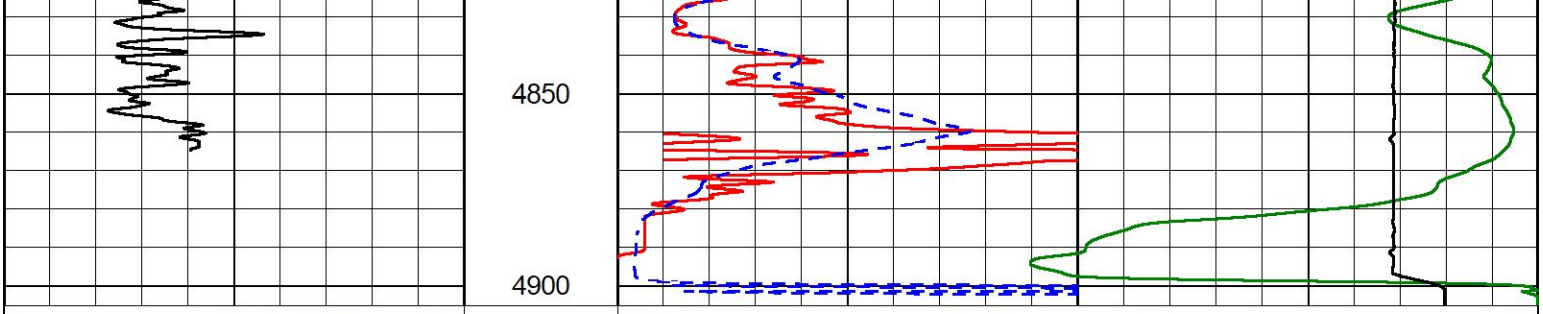

2100
2150
2200
2250
2300
2350
2400
2450
2500
2550
2600


2650
2700
2750
2800
2850
2900
2950
3000
3050
3100
3150


3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
3700


3750
3800
3850
3900
3950
4000
4050
4100
4150
4200
4250


4300
4350
4400
4450
4500
4550
4600
4650
4700
4750
4800



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

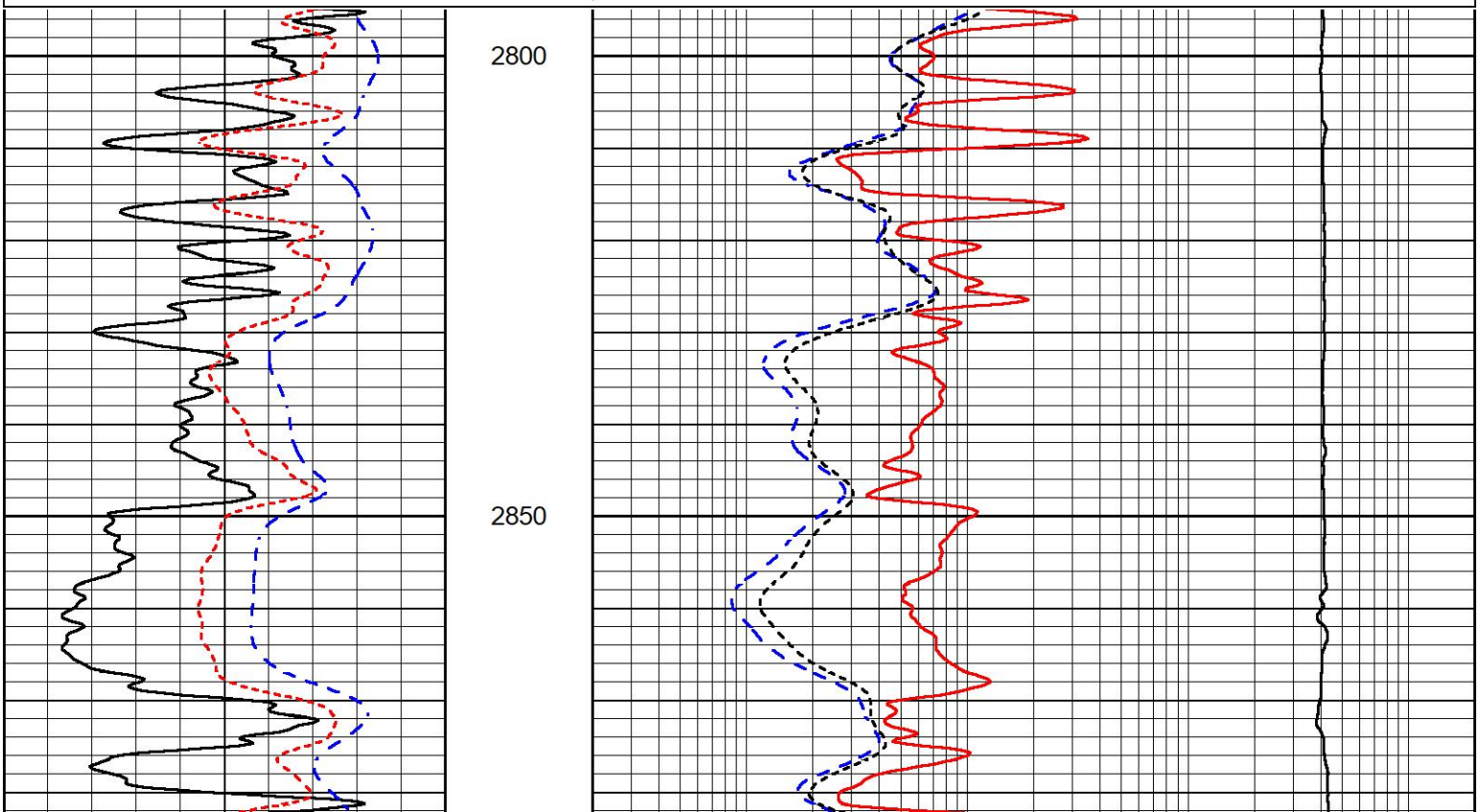
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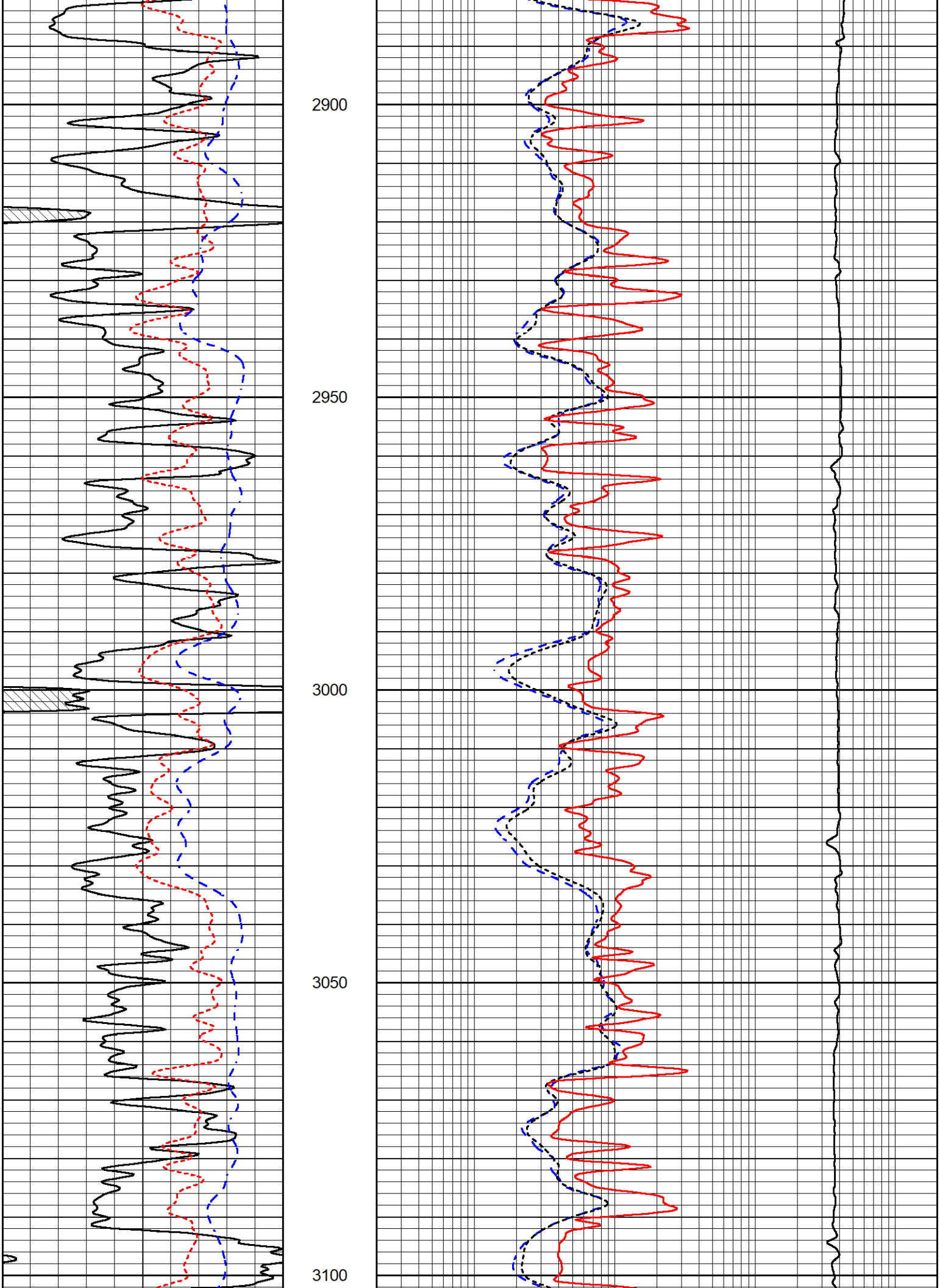
MAIN PASS

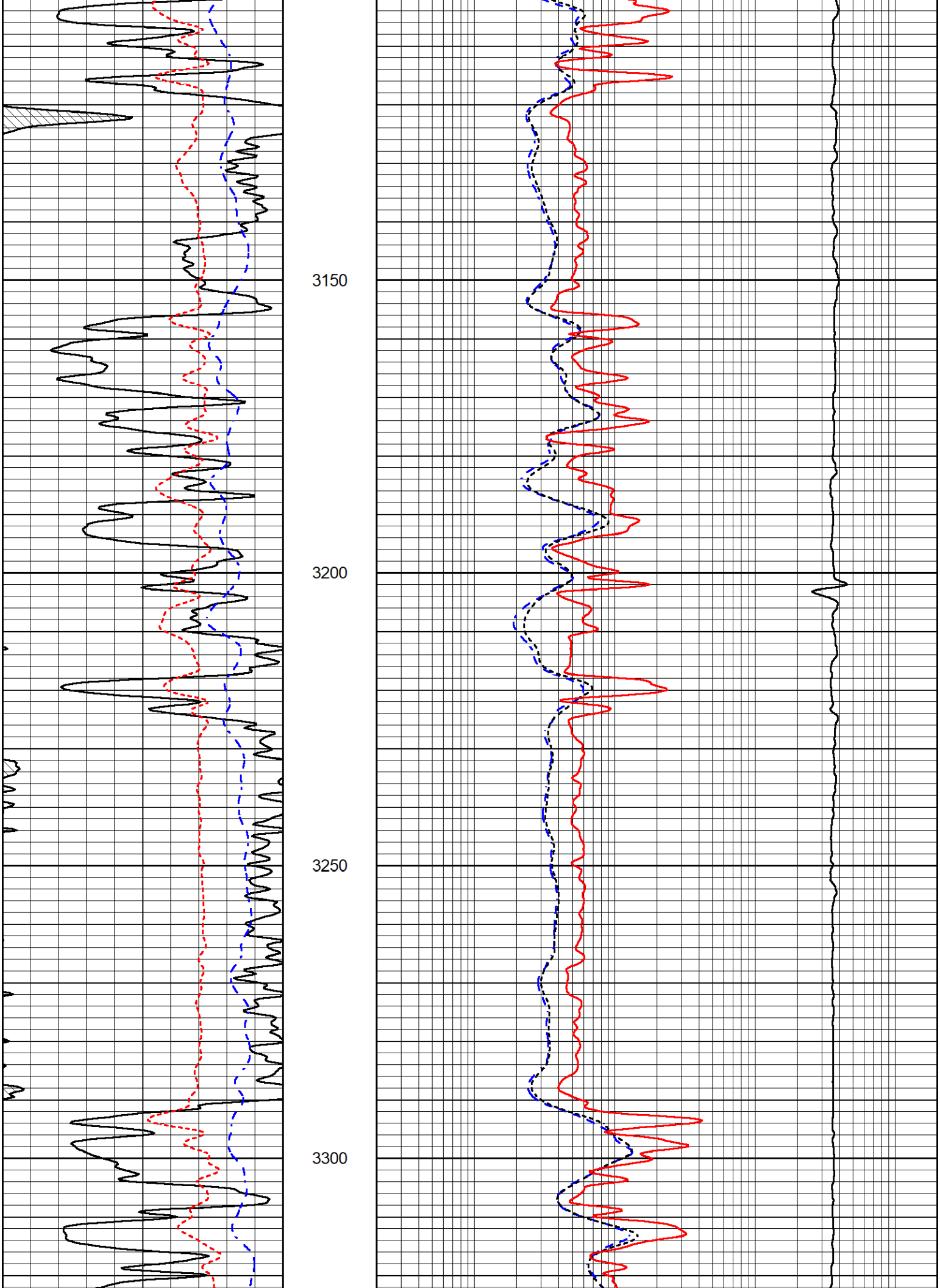
MIDWEST WIRELINE

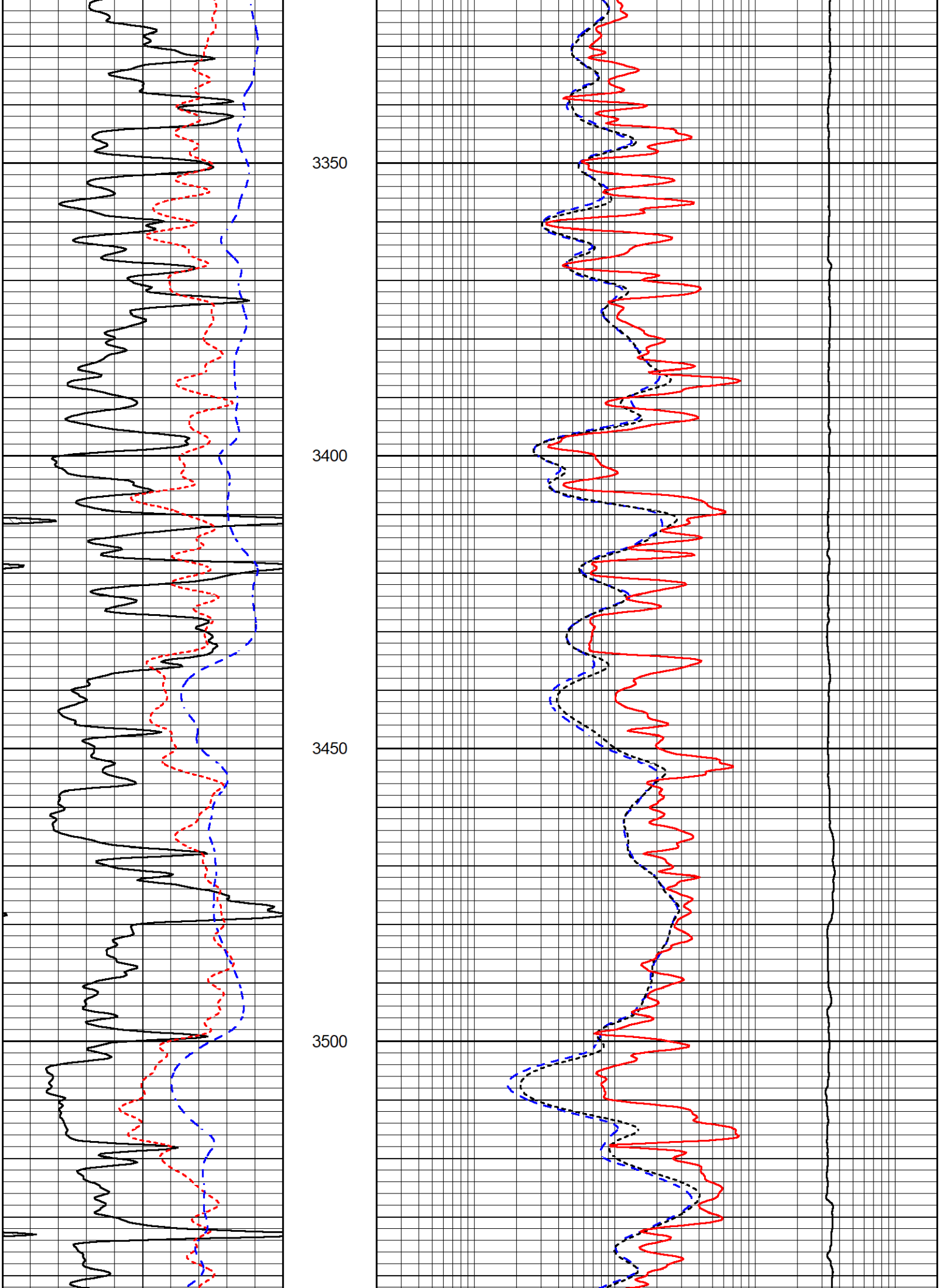
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Dataset Pathname	stackml/pass4.1
Presentation Format	_dil
Dataset Creation	Wed Jan 26 20:14:55 2022
Charted by	Depth in Feet scaled 1:240

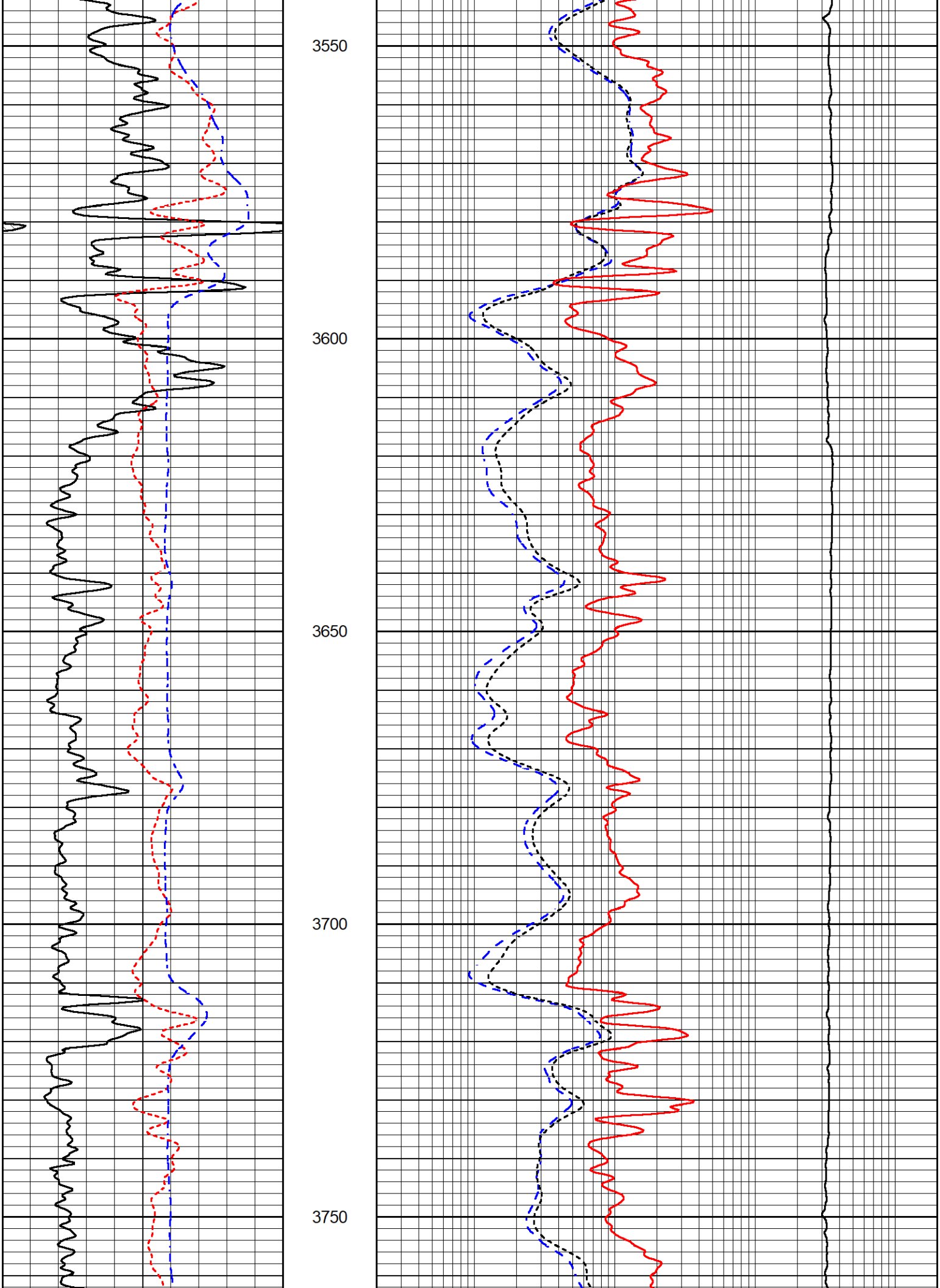
0	Gamma Ray (GAPI)	150
-160	RXORT	40
-200	SP (mV)	0
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	Shallow Resistivity (Ohm-m)	2000
10000	Line Tension (lb)	0

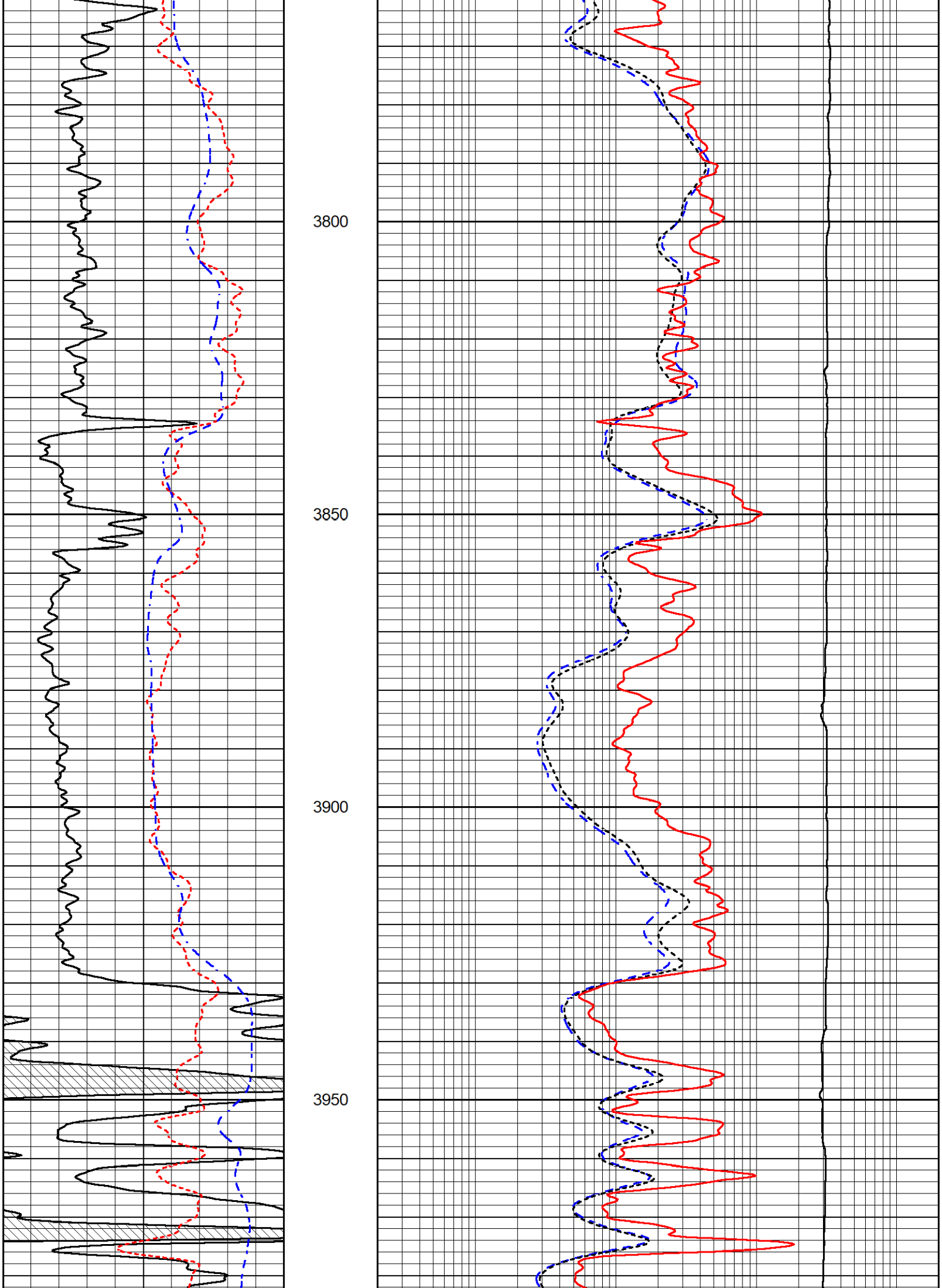


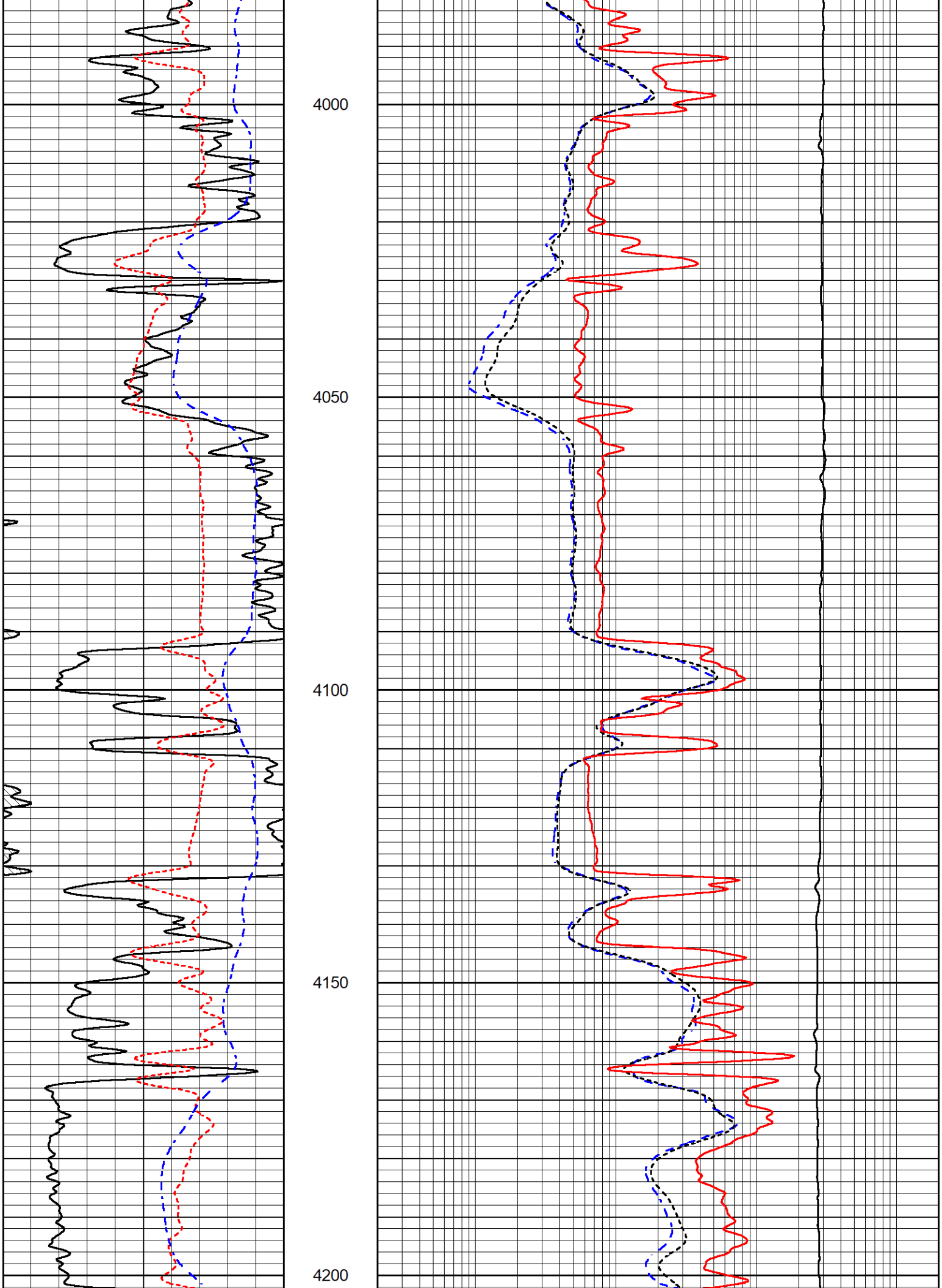

2900
2950
3000
3050
3100

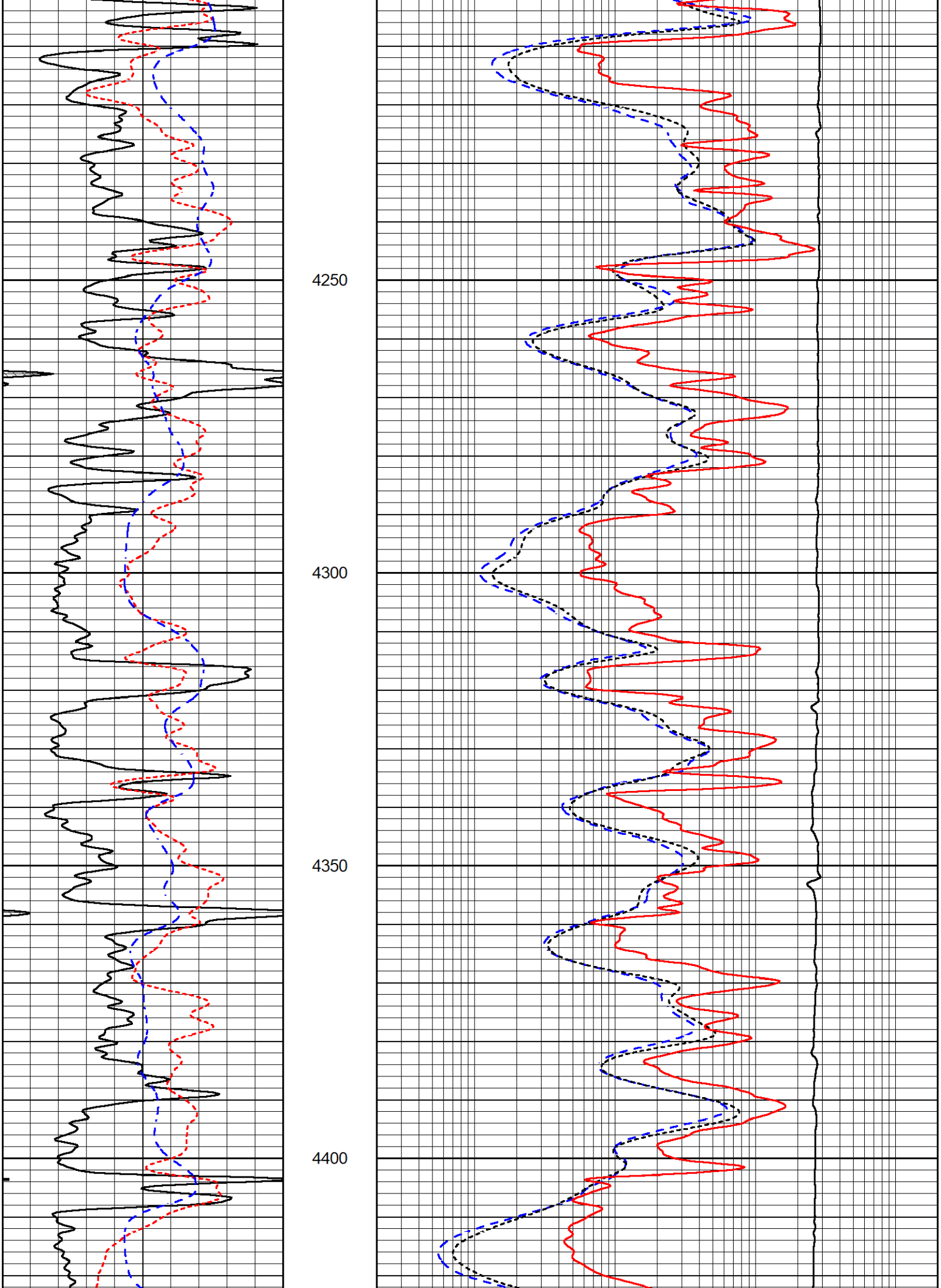

3150
3200
3250
3300

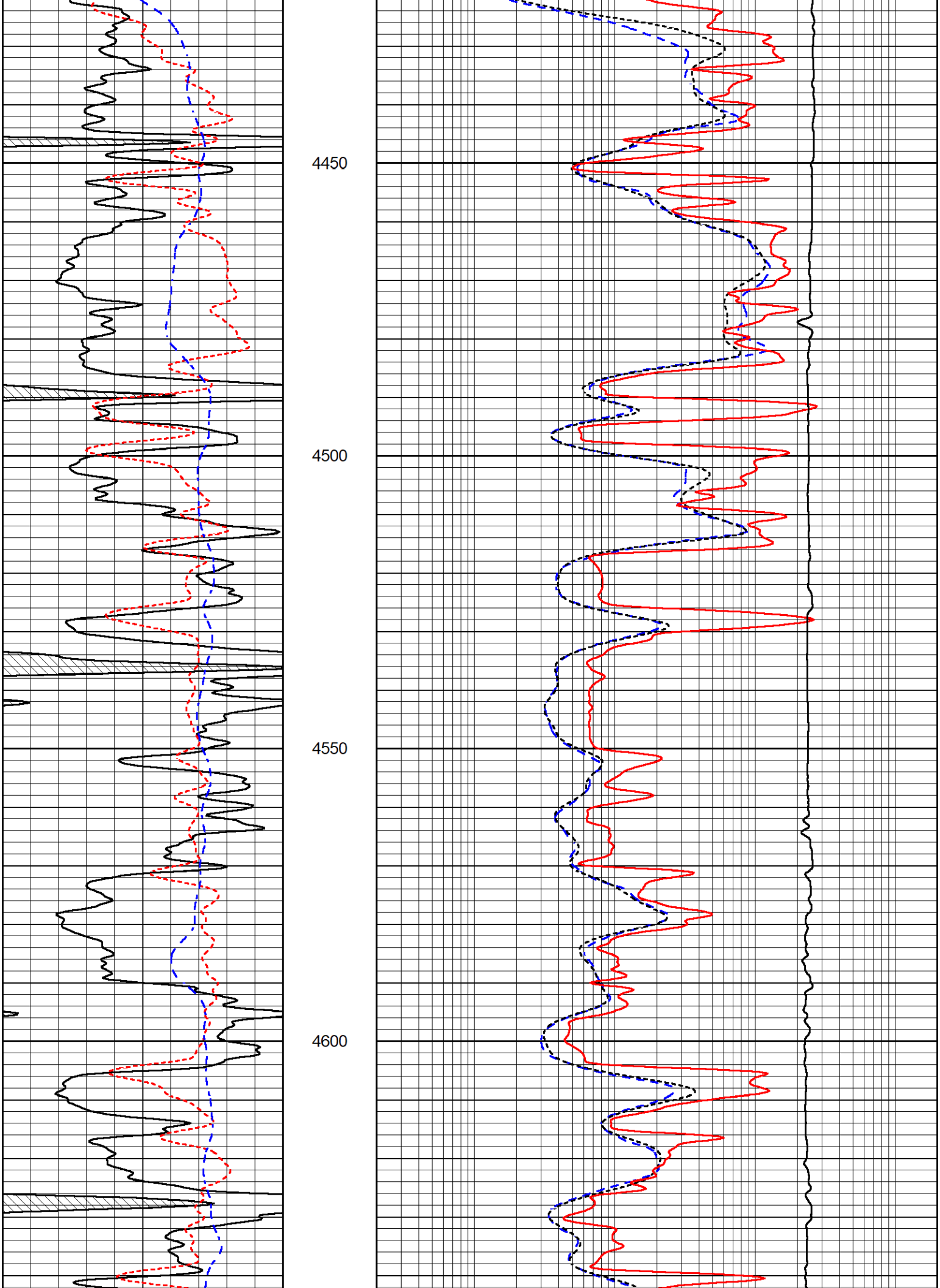

3350
3400
3450
3500

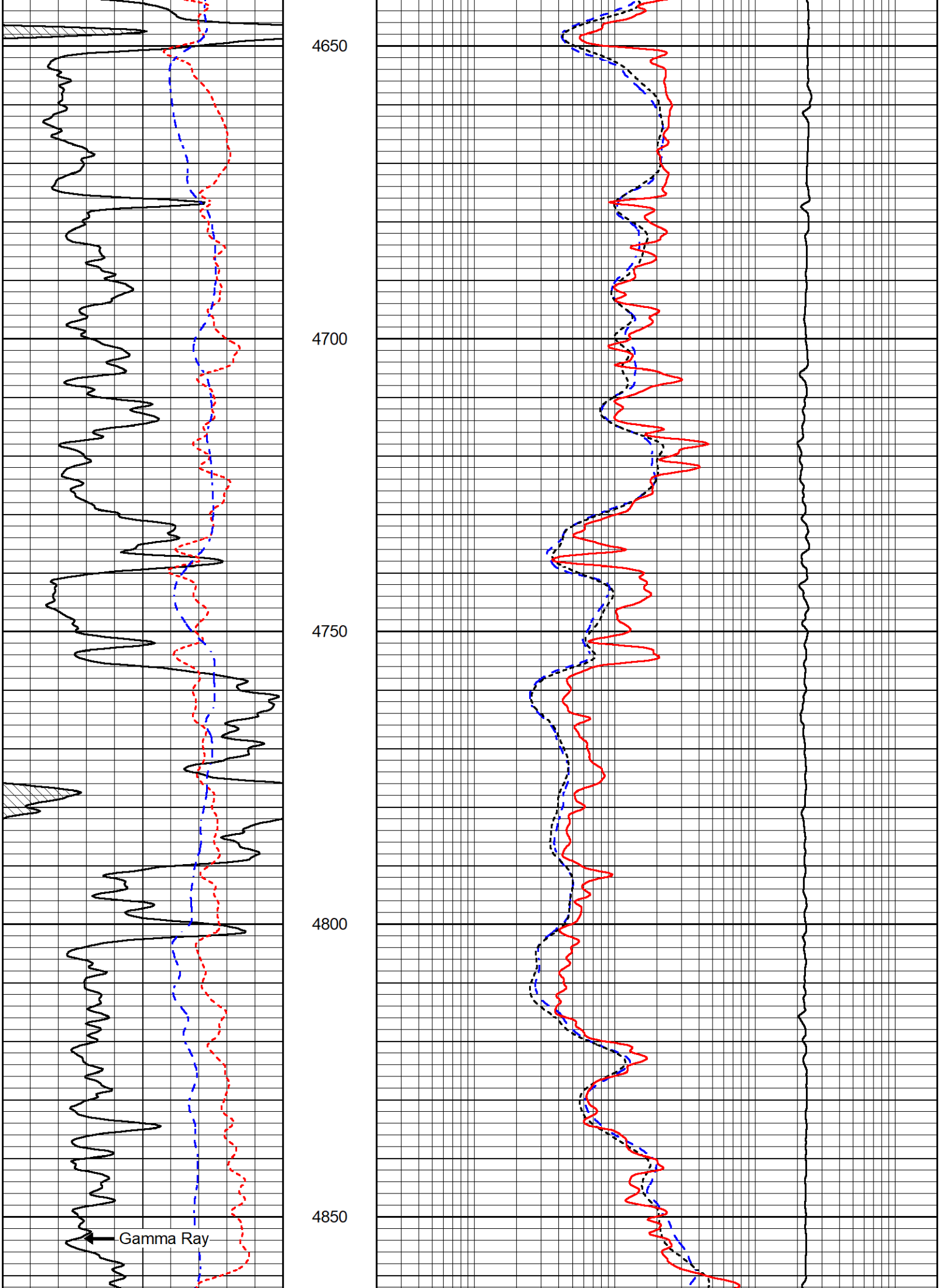

3550
3600
3650
3700
3750

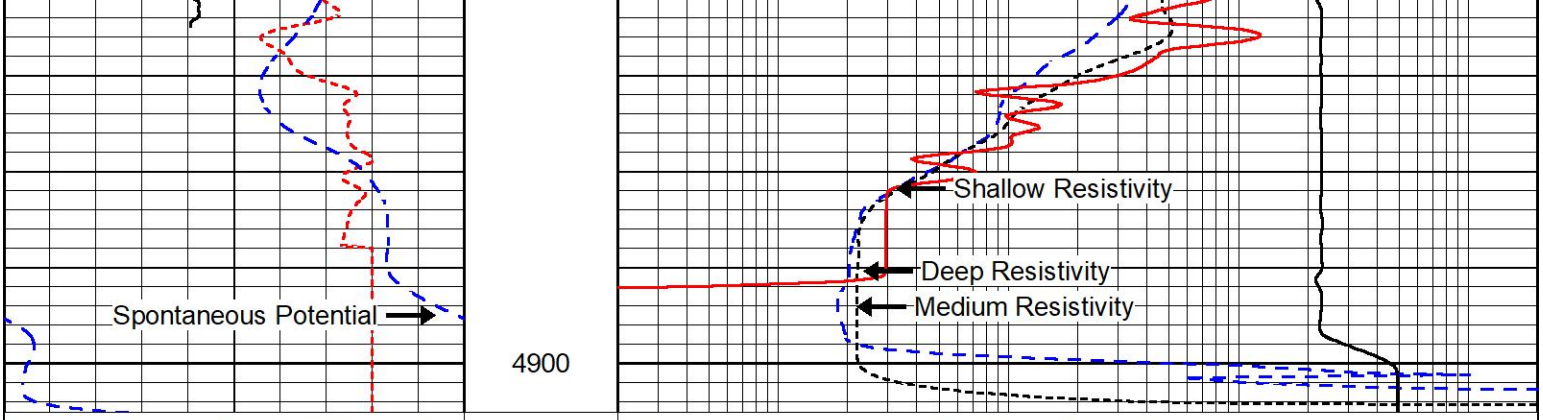

3800
3850
3900
3950


4000
4050
4100
4150
4200


4250
4300
4350
4400


4450
4500
4550
4600


4650
4700
4750
4800
4850
Gamma Ray



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

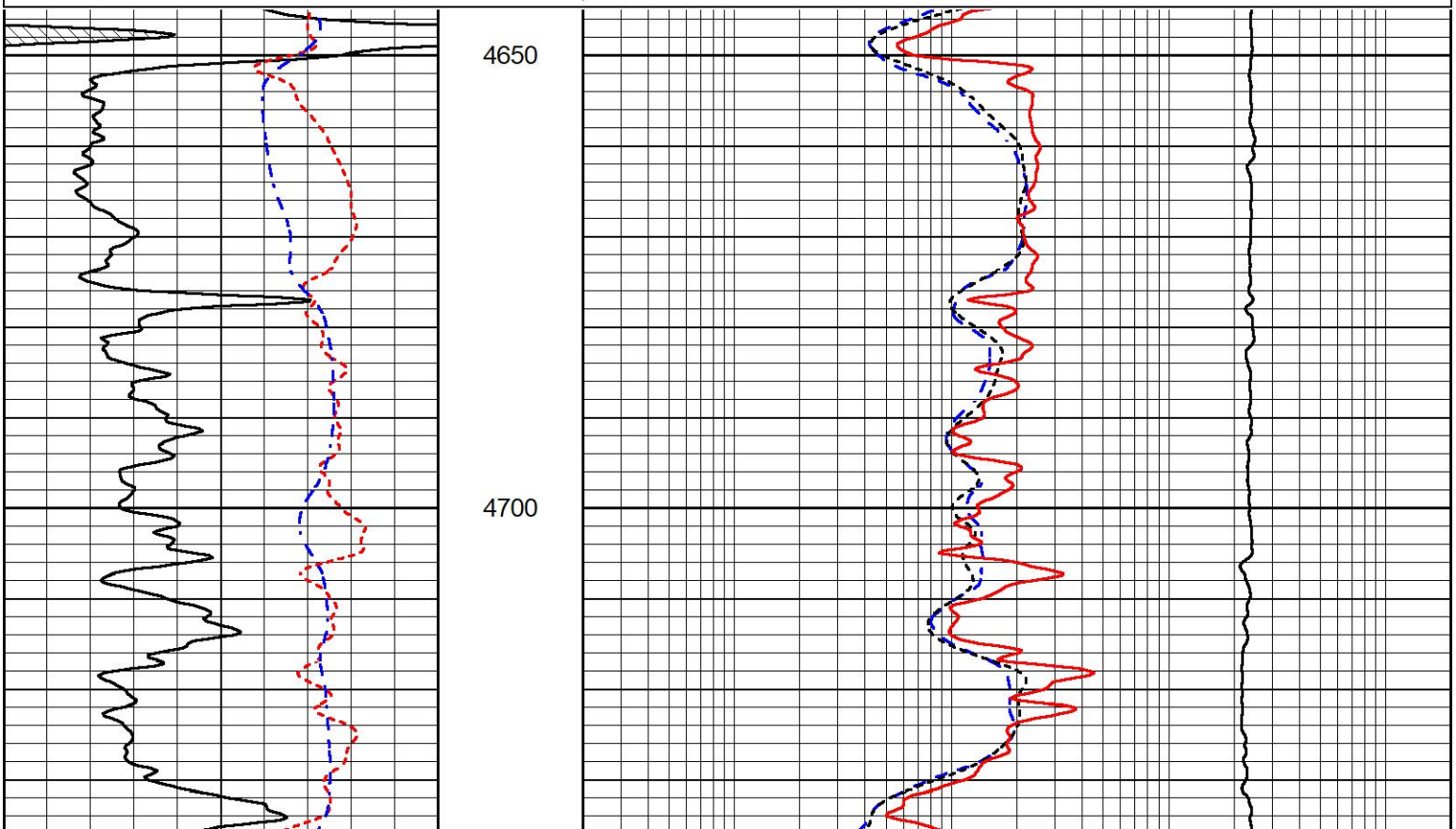
REPEAT SECTION

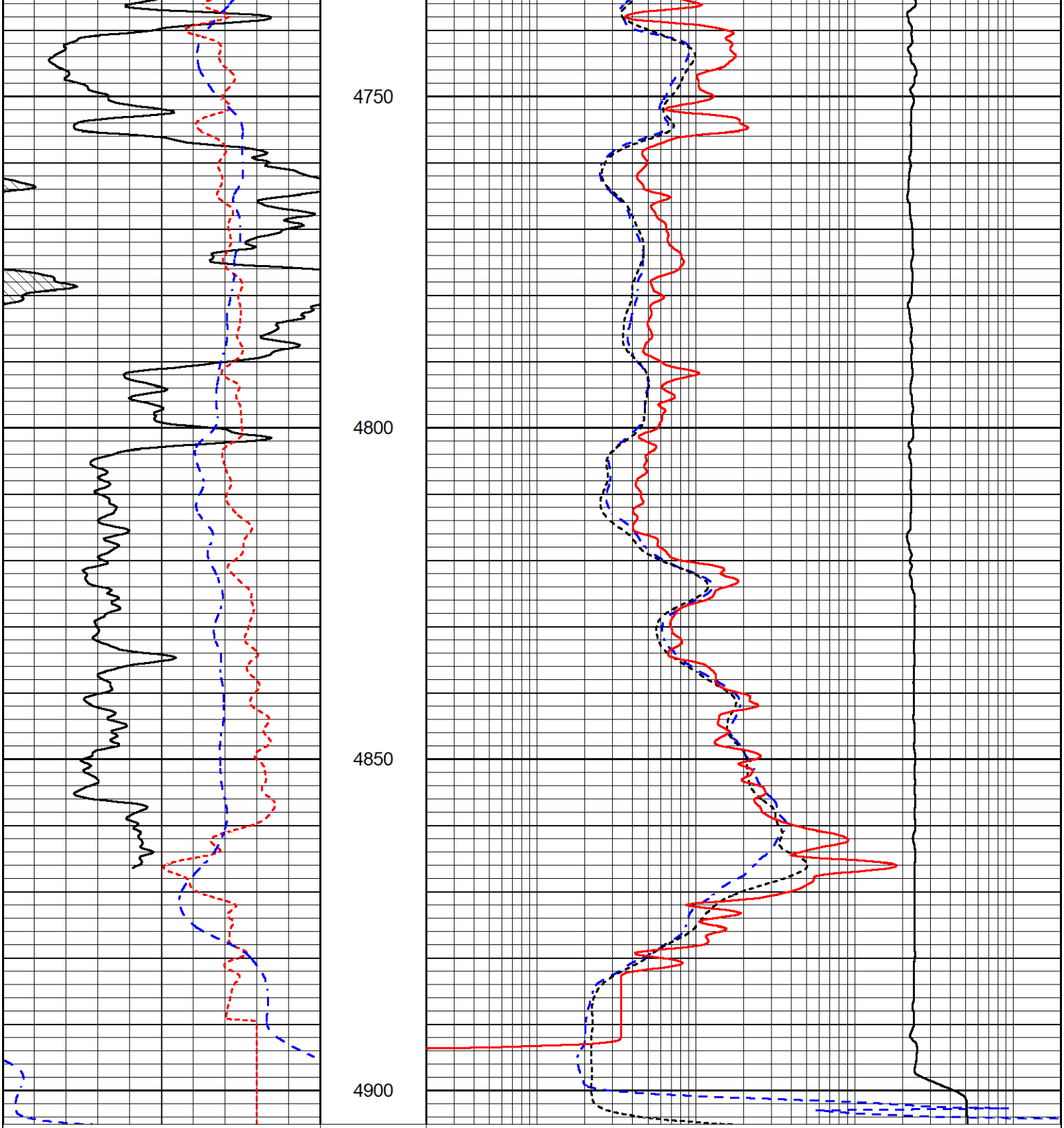
REPEAT PASS

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Dataset Pathname	stackml/pass2.1
Presentation Format	_dil
Dataset Creation	Wed Jan 26 20:14:07 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	griffin_olivia_1.db
Dataset Pathname	stackml/pass4.1
Dataset Creation	Wed Jan 26 20:14:55 2022

Dual Induction Calibration Report

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

Loop:	Readings Air	Readings Loop	References Air	References Loop		Results m	Results b
Deep	178.615	710.235	0.000	255.800	mmho/m	0.650	-19.000
Medium	161.982	1441.110	0.000	255.800	mmho/m	0.450	-45.500

Microlog Calibration Report

Serial-Model: 402-PSI STKBL ML
Performed: Thu Dec 16 22:29:48 2021

	Readings Zero	Readings Cal	References Zero	References Cal		Results m	Results b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	15000.0000	-1.0000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	15000.0000	0.0000
Caliper	1.0020	1.0834	5.5000	16.5000	in	135.1520	-131.2000

Compensated Density Calibration Report

Serial-Model: 303-03-M&W
Source #: 21170B
Master Calibration Performed: Thu Dec 16 23:28:34 2021

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.755	g/cc	3841.78	5151.73	cps
Aluminum	2.670	g/cc	700.98	3068.49	cps

Spine Angle = 73.06 Density/Spine Ratio = 0.515

	Size		Reading
Small Ring	4.00	in	1.17
Large Ring	14.00	in	1.05

Compensated Neutron Calibration Report

Serial-Model: 210-M&W
Source #: N-1238
Master Calibration Performed: Fri Dec 3 09:16:24 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: 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

MIDWEST WIRELINE

Company	Griffin Management
Well	Olivia #1
Field	Unnamed
County	Pratt
State	Kansas