MIDWEST WIRELINE

DUAL INDUCTION LOG

Company Campbell Energy, LLC
Well Gibson #1
Field
County Barber State Kansas
Location: API # : 15-007-24488-00-00
SE NW NE NE
646 FNL & 674 FEL
SEC 20 TWP 30S RGE 15W

Other Services: CNL/CDL, MEL

Elevation: K.B. 1775, D.F., G.L. 1770

Permanent Datum: Ground Level — Elevation 1770
Log Measured From: Kelly Bushing
Drilling Measured From: Kelly Bushing

Company Campbell Energy, LLC
Well Gibson #1
Field
County Barber
State Kansas

Date	12/31/2023		
Run Number	One		
Depth Driller	4739		
Depth Logger	4740		
Bottom Logged Interval	4739		
Top Log Interval	850		
Casing Driller	8.625 @ 892		
Casing Logger	889		
Bit Size	7.875		
Type Fluid in Hole	Chemical		
Salinity,ppm CL	5000		
Density / Viscosity	9.3 / 54		
pH / Fluid Loss	11.0 / 8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.50 @ 55		
Rmf @ Meas. Temp	0.38 @ 55		
Rmc @ Meas. Temp	0.68 @ 55		
Source of Rmf / Rmc	CHARTS		
Rm @ BHT	0.22 @ 123		
Operating Rig Time	3 Hours		
Max Rec. Temp. F	123		
Equipment Number	110		
Location	HAYS		
Recorded By	D. Schmidt		
Witnessed By	Eli Felts		

<<< Fold Here >>>

Comments

N/A DENOTES NOT AVAILABLE OR NON-APPLICABLE.

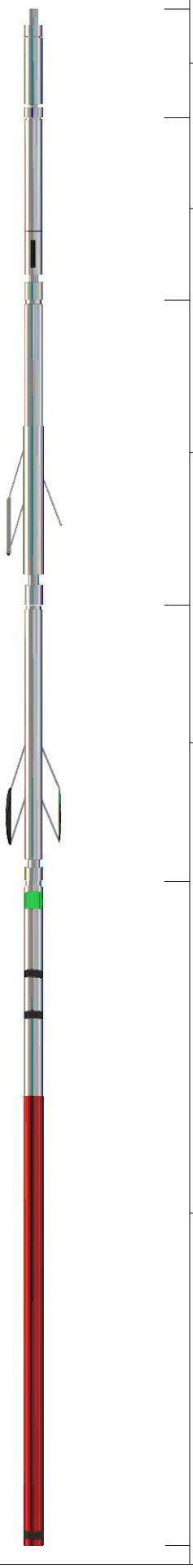
Croft,
South to River Rd,
about 1 mile East, North into

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: Eli Felts
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	40.23		GR-M&W (105)	3.00	3.50	50.00
CNLSC	37.13		CNT-M&W (210)	5.00	3.50	100.00
CNSSC	36.38					
			MWLith-STEP LITHO Short (701-01)	8.40	5.00	250.00
LCAL	28.21					
LLW8N	28.21					
LLW7N	28.21					
LLW6N	28.21					
LLW5N	28.21					
LLW4N	28.21					
LLW3N	28.21					
LLW2N	28.21		ML-PSI STKBL ML (402)	7.58	4.00	65.00
LLW1N	28.21					
LSLOCK	27.96					
LLLOCK	27.96					
PELTMPR	27.96					
LSHVNG	27.96					
LLHVNG	27.96					
LSW8N	27.71					
LSW7N	27.71					
LSW6N	27.71					
LSW5N	27.71					
LSW4N	27.71					
LSW3N	27.71					
LSW2N	27.71					
LSW1N	27.71					
MCAL	19.58		DIL-M&W (505 HT)	18.25	3.50	220.00
MI	19.58					
MN	19.58					
RLL3F	15.50					
RLL3	15.50					
CILD	8.33					
CILM	4.50					
SP	0.20					

Dataset: campbell_gibson 1.db: field/well/stkml/pass3.1
Total length: 42.23 ft
Total weight: 685.00 lb
O.D.: 5.00 in

Log Variables

DatabaseC:\ProgramData\Warrior\Data\campbell_gibson 1.db
Dataset field/well/stkml/pass3.1/_vars_

Top - Bottom

A	BOREID in	BOTTEMP degF	CASEOD in	CASETHCK in	FLUIDDEN g/cc	M	MATRXDEN g/cc
1	7.875	119	5.5	0	1	2	2.71

NPORSEL	PERFS	SNDERR mmho/m	SNDERRM mmho/m	SPSHIFT mV	SRFTEMP degF	SZCOR	TDEPTH ft
Limestone	No	-3	5	130	40	Off	4740

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

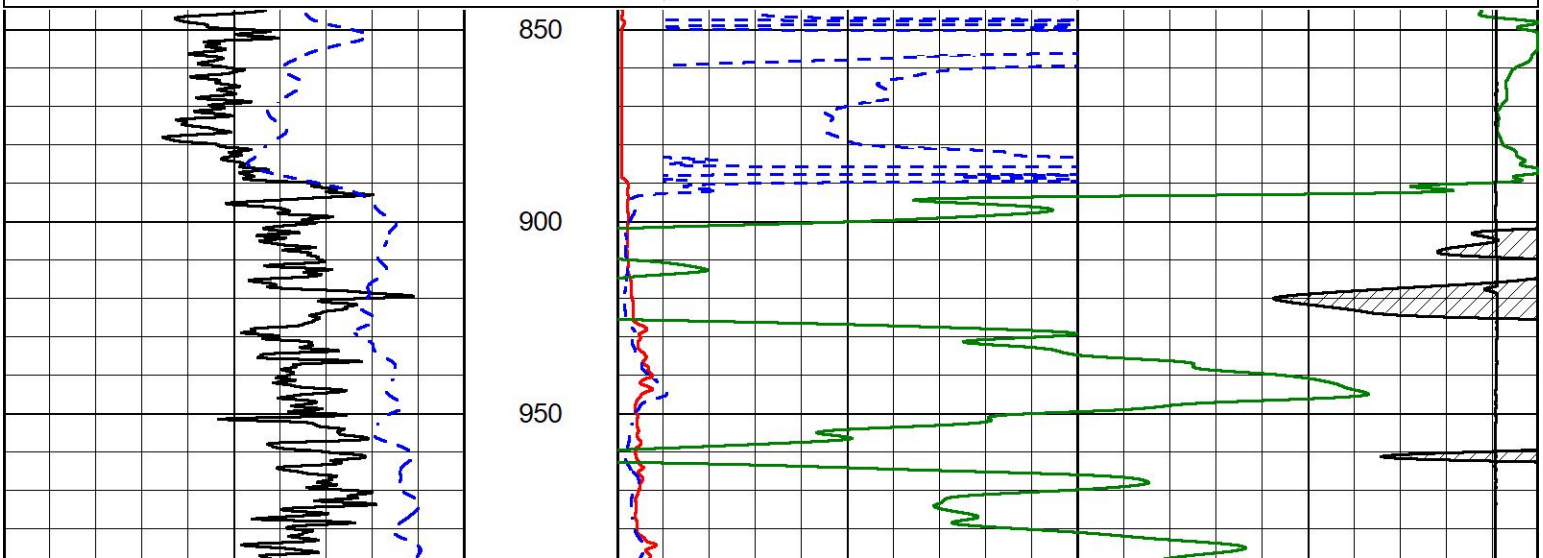
MIDWEST WIRELINE

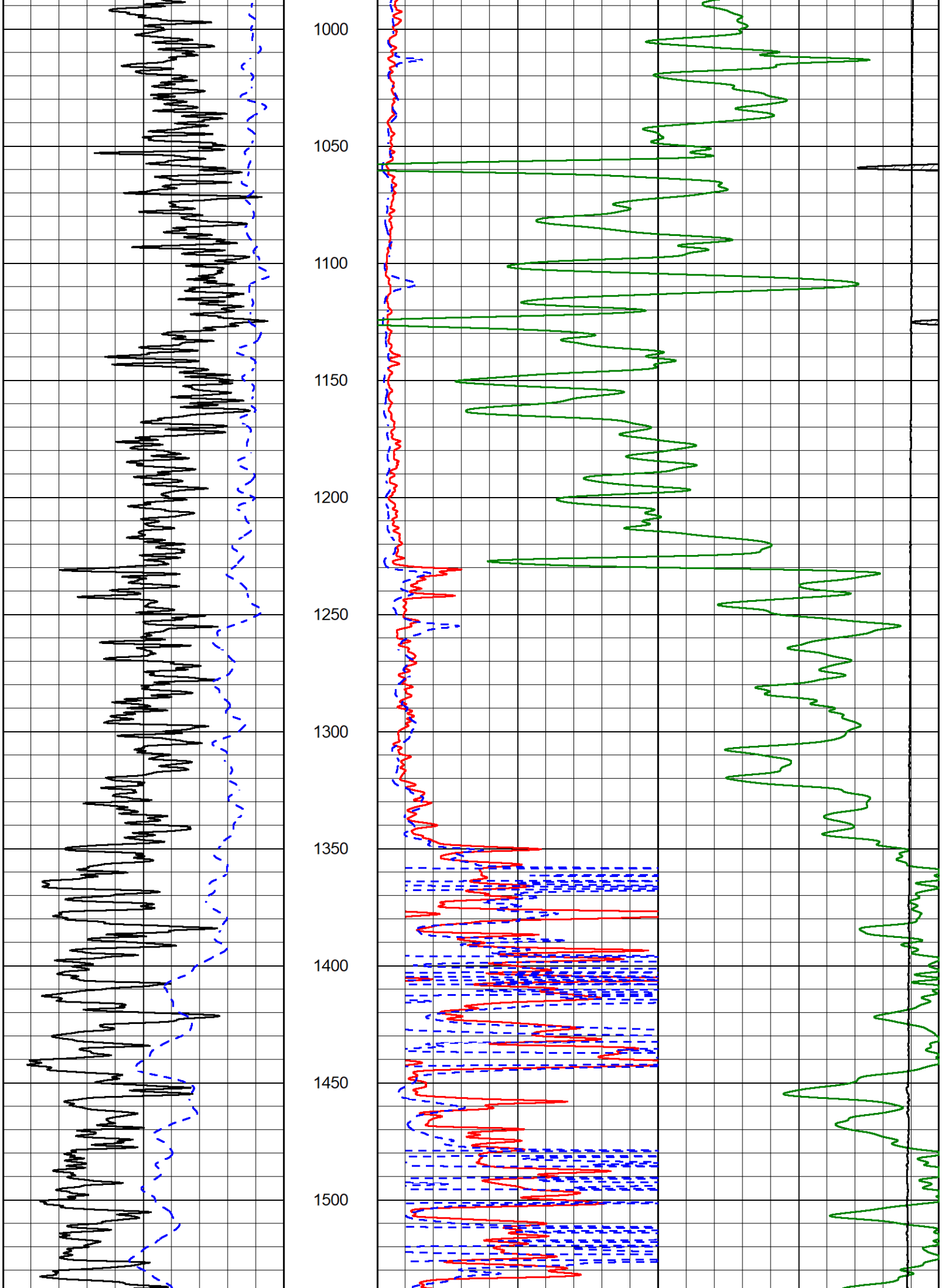
2" SCALE RESISTIVITY

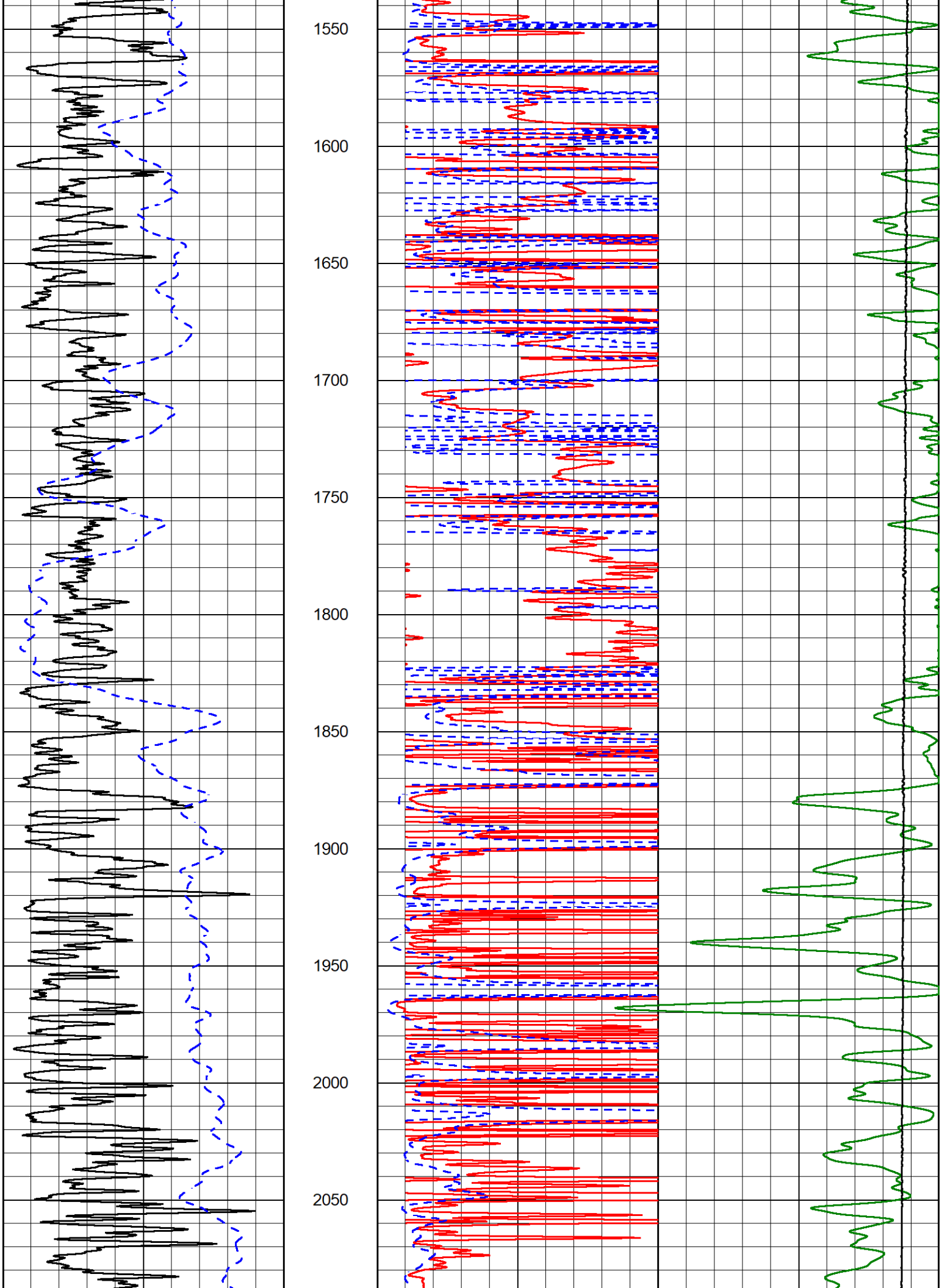
MAIN PASS

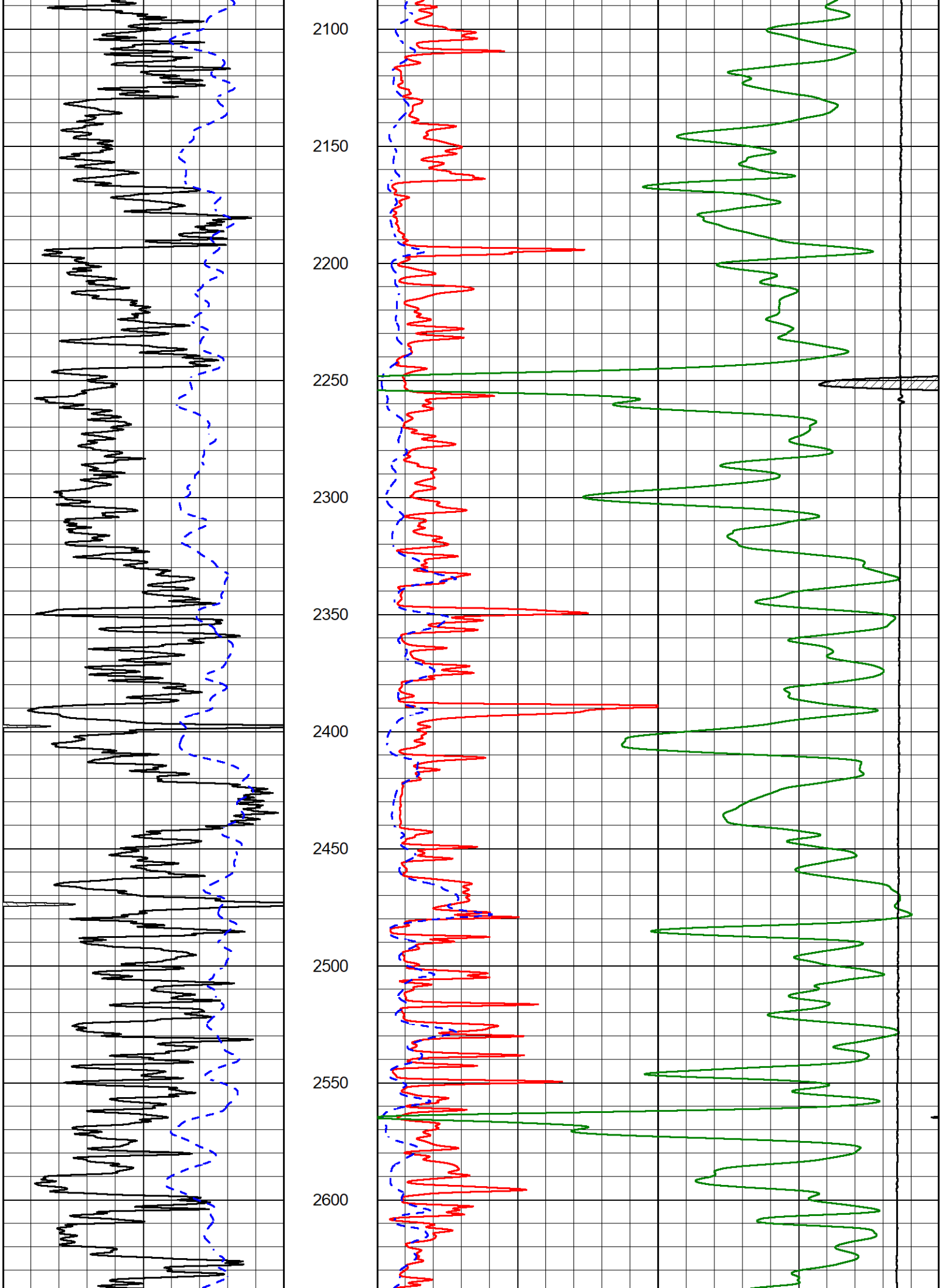
Database File	campbell_gibson 1.db
Dataset Pathname	stkml/pass3.3
Presentation Format	_dil2in
Dataset Creation	Sun Dec 31 16:20:14 2023
Charted by	Depth in Feet scaled 1:600

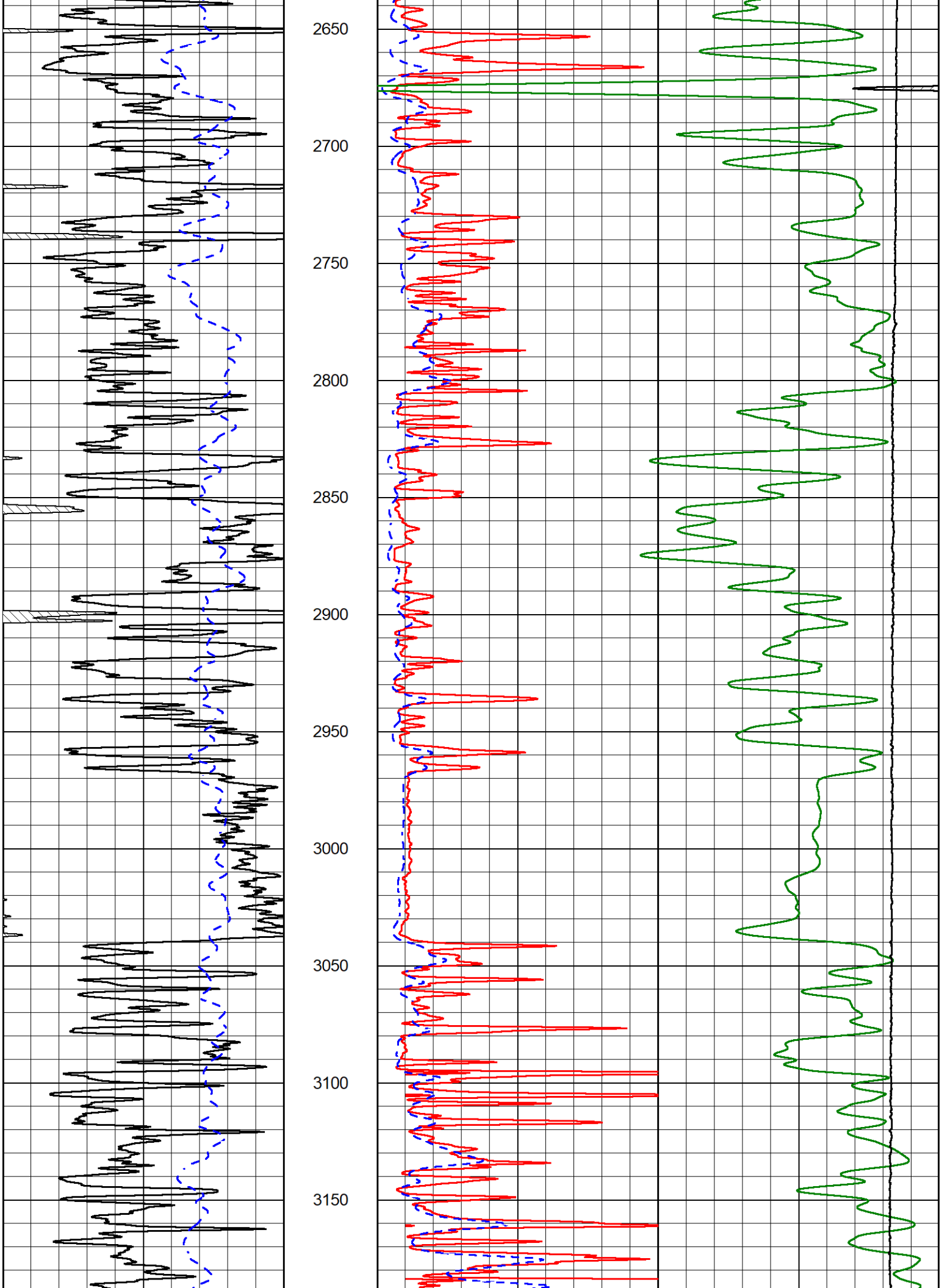
0	Gamma Ray (GAPI)	150
-200	SP (mV)	0
1000	Conductivity (mmho/m)	0
15000	Line Tension (lb)	0
0	Shallow Resisitivity (Ohm-m)	50
0	Deep Resistivity (Ohm-m)	50
	Shallow Resistivity	
50	(Ohm-m)	200
50	Deep Resistivity (Ohm-m)	200

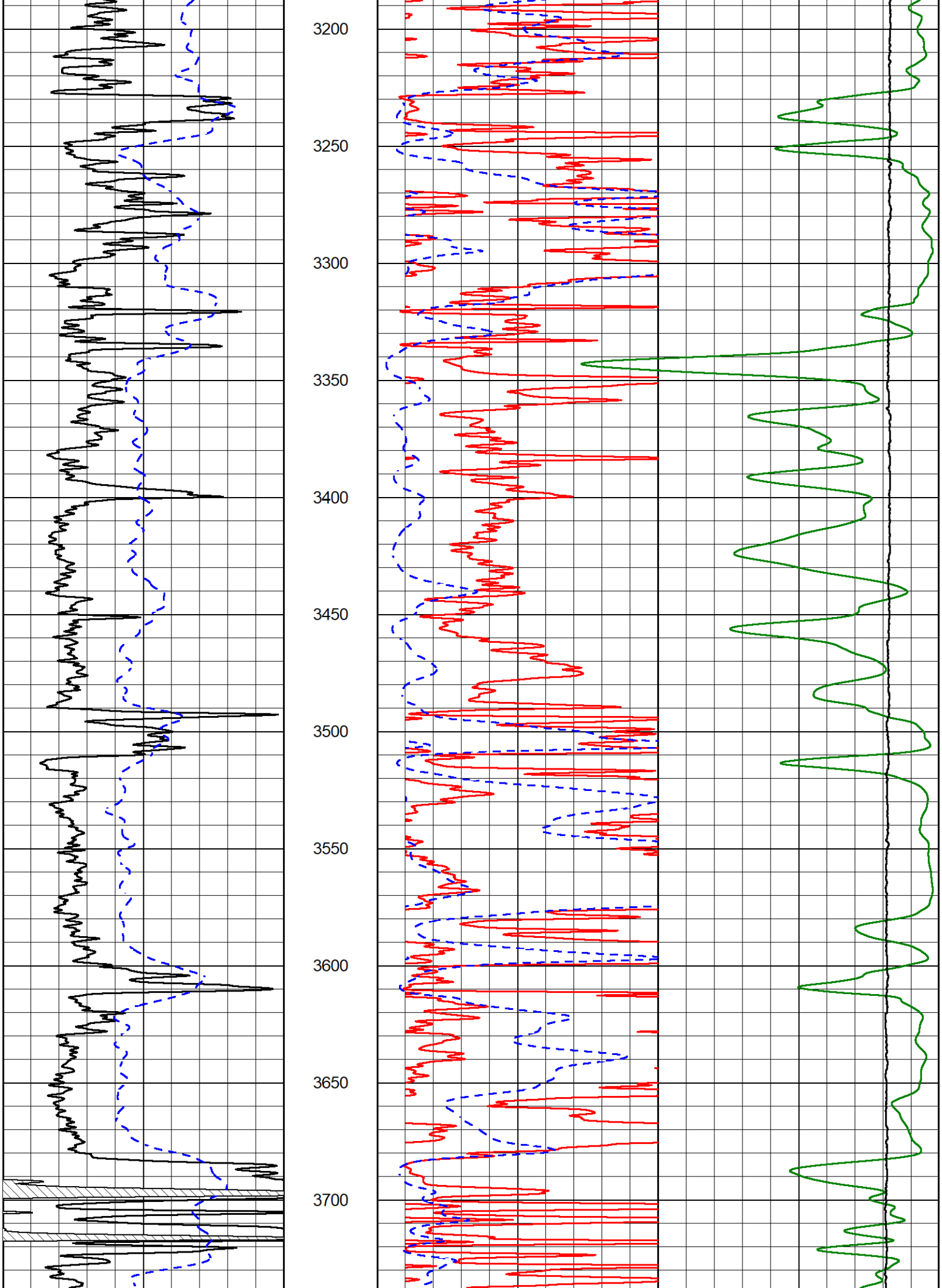


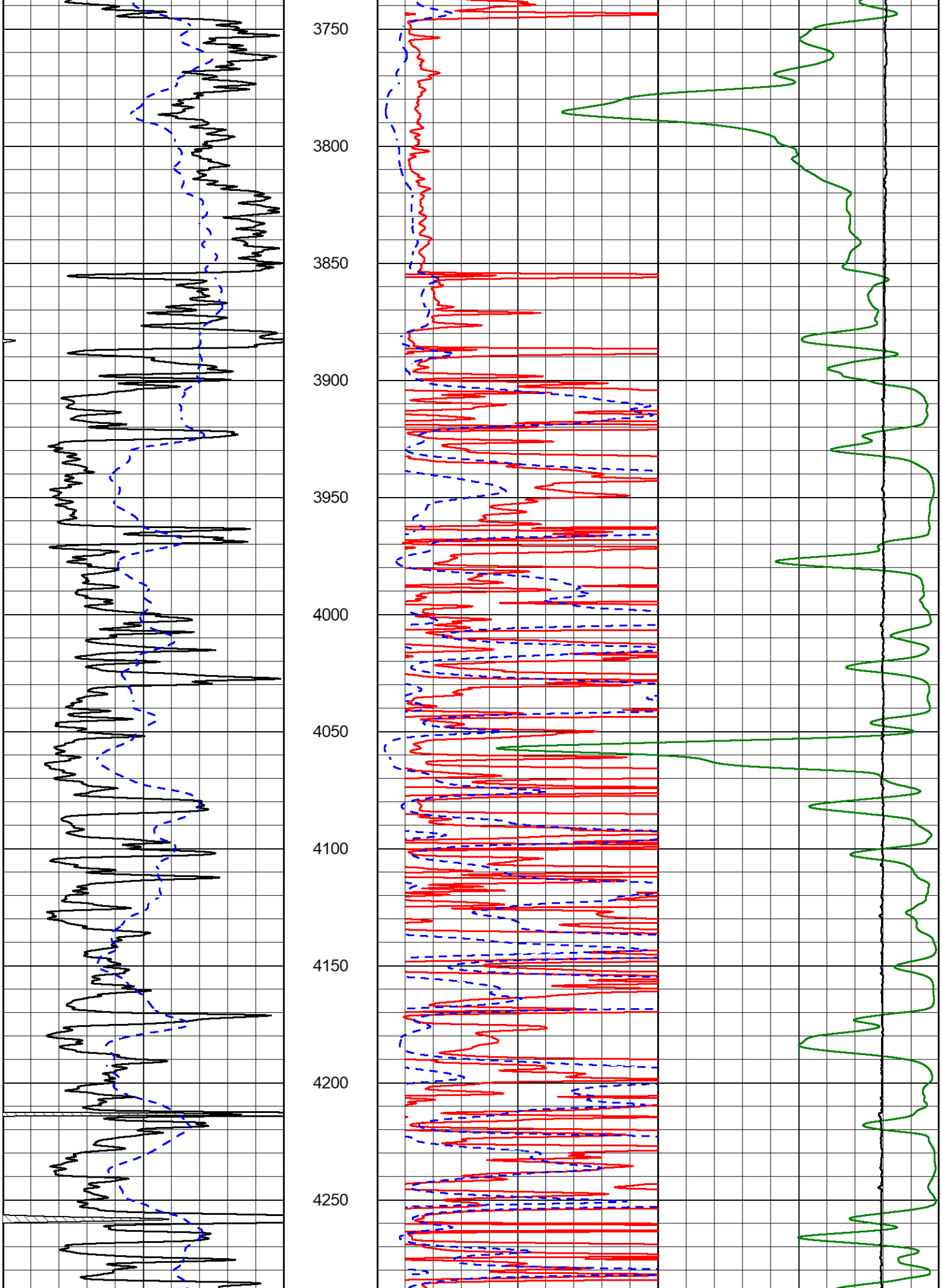

1000
1050
1100
1150
1200
1250
1300
1350
1400
1450
1500

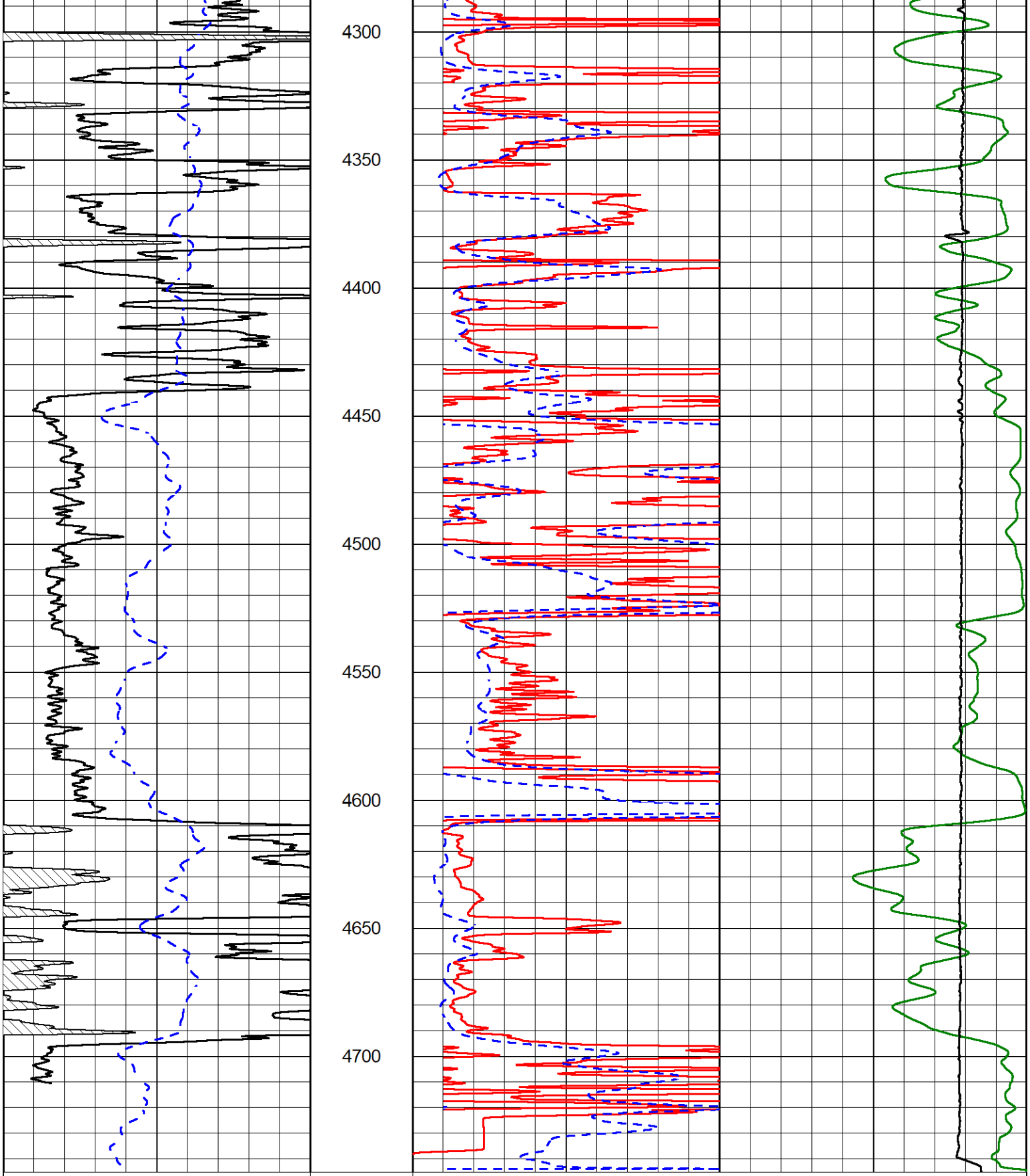

1550
1600
1650
1700
1750
1800
1850
1900
1950
2000
2050


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

MIDWEST WIRELINE

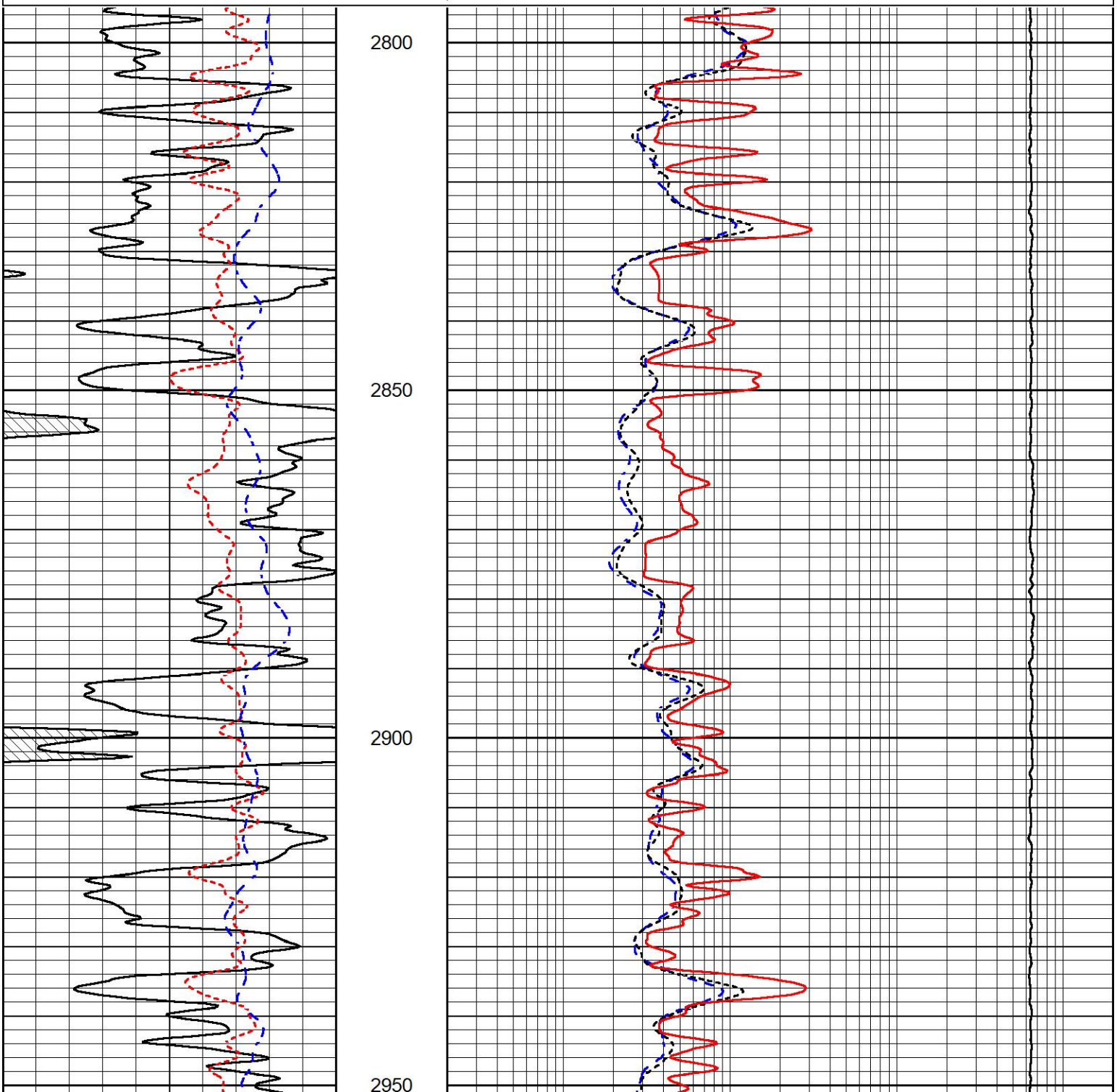
DETAIL SECTION

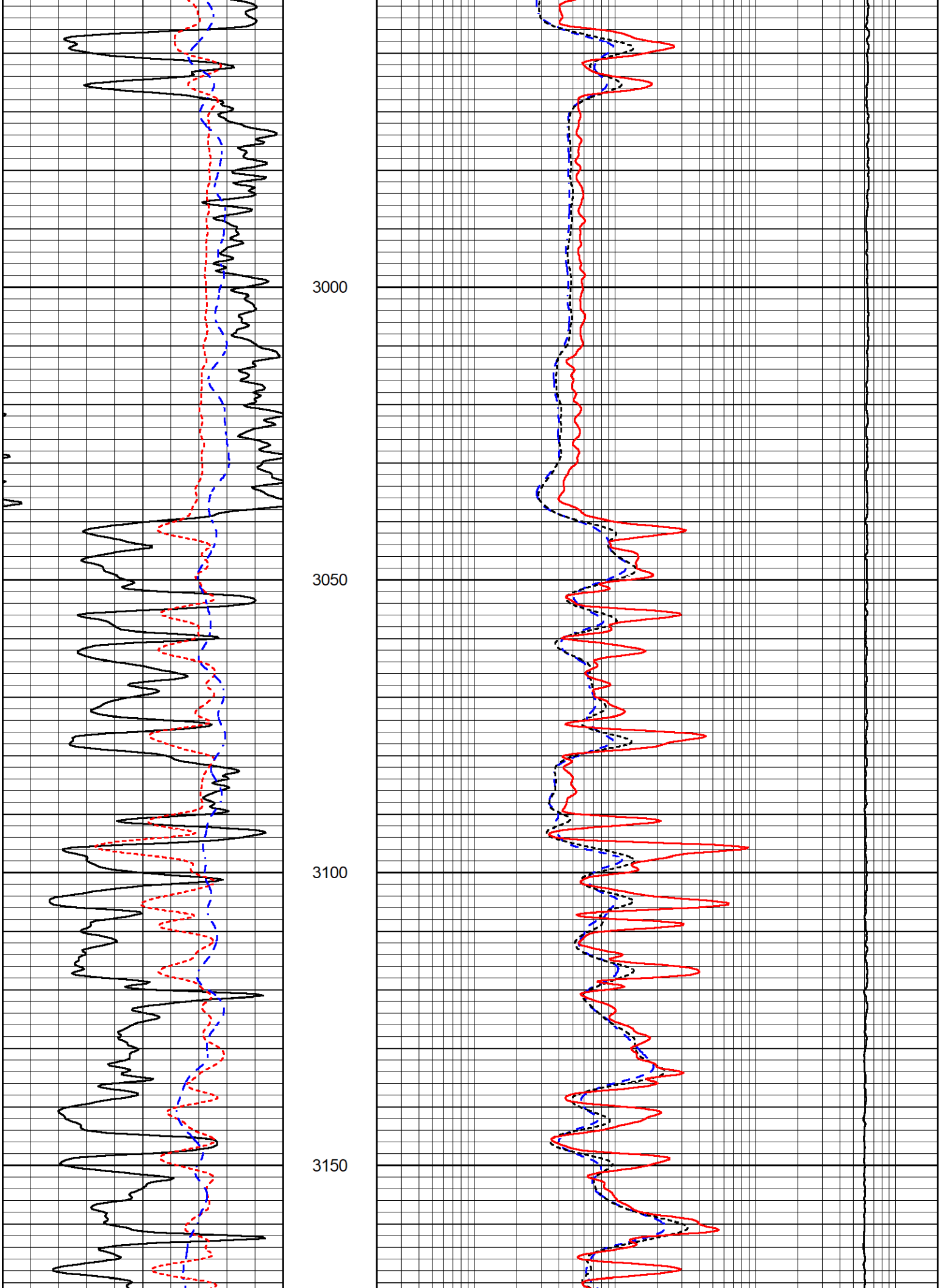
MAIN PASS

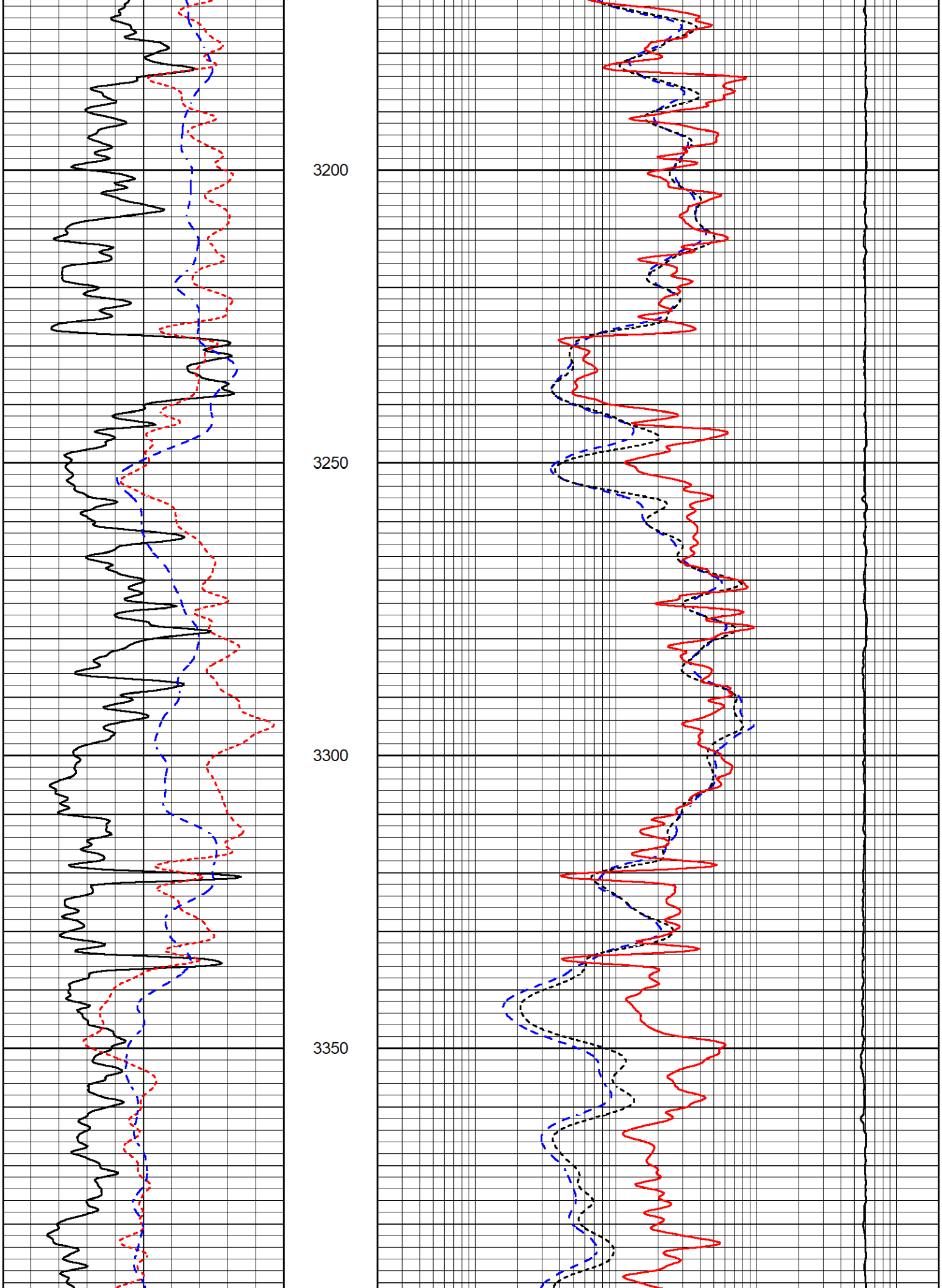
Database File	campbell_gibson 1.db
Dataset Pathname	stkml/pass3.1
Presentation Format	_dil
Dataset Creation	Sun Dec 31 16:19:54 2023
Charted by	Depth in Feet scaled 1:240

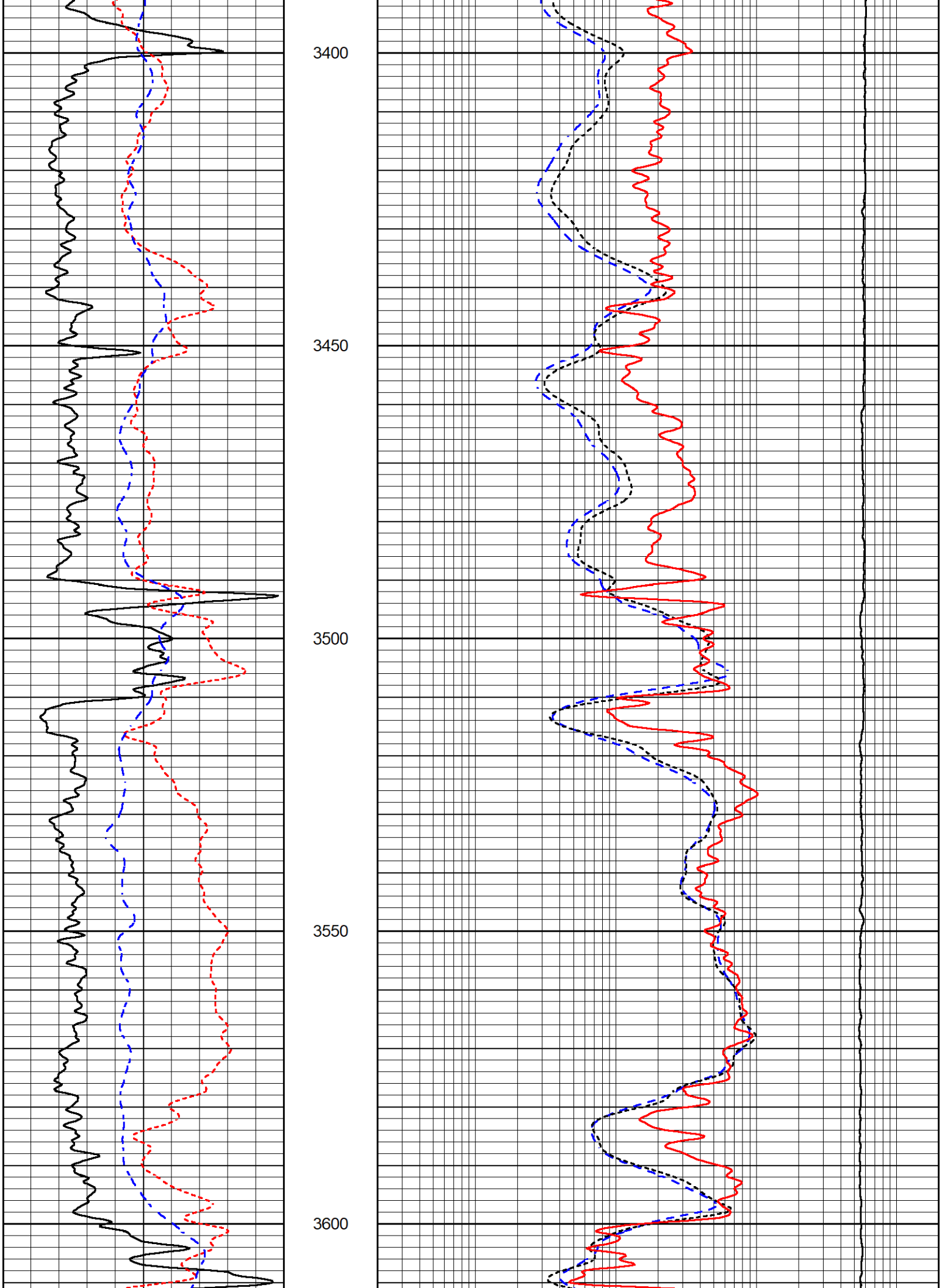
0	Gamma Ray (GAPI)	150
50	RXORT	250
-200	SP (mV)	0

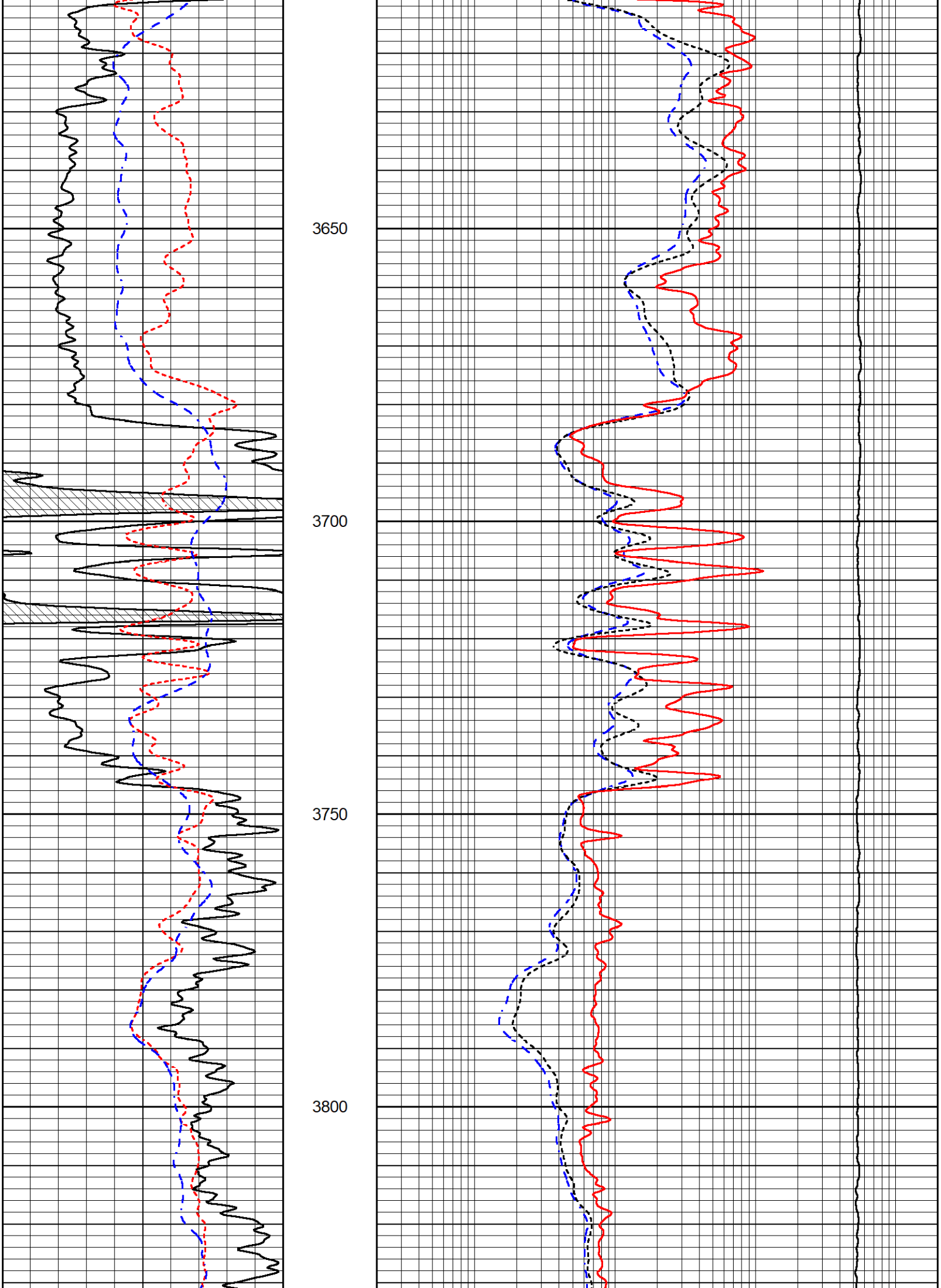
0.2	Deep Resistivity (Ohm-m)	2000
0.2	Medium Resistivity (Ohm-m)	2000
0.2	RLL3 (Ohm-m)	2000
10000	Line Tension (lb)	0

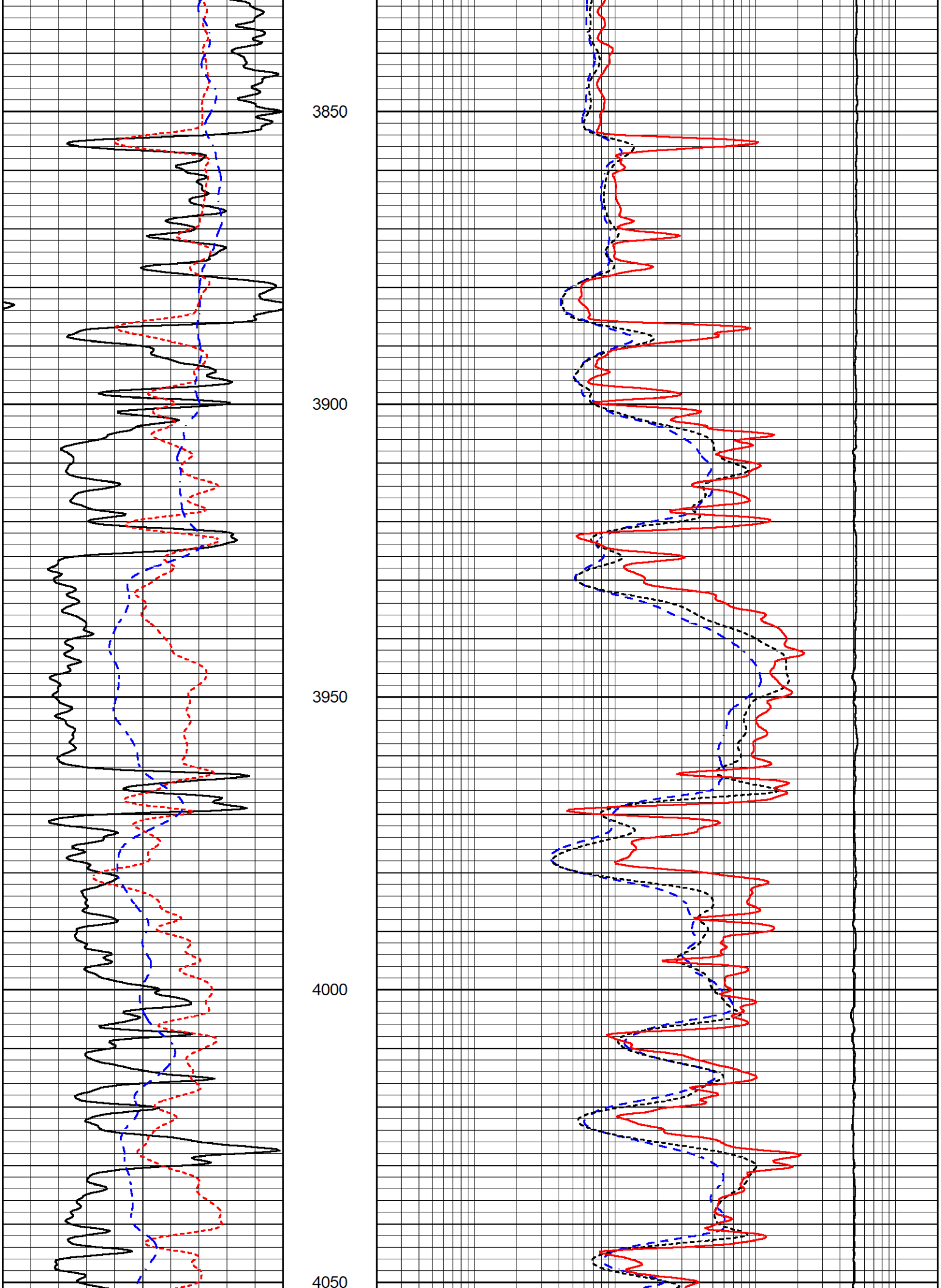


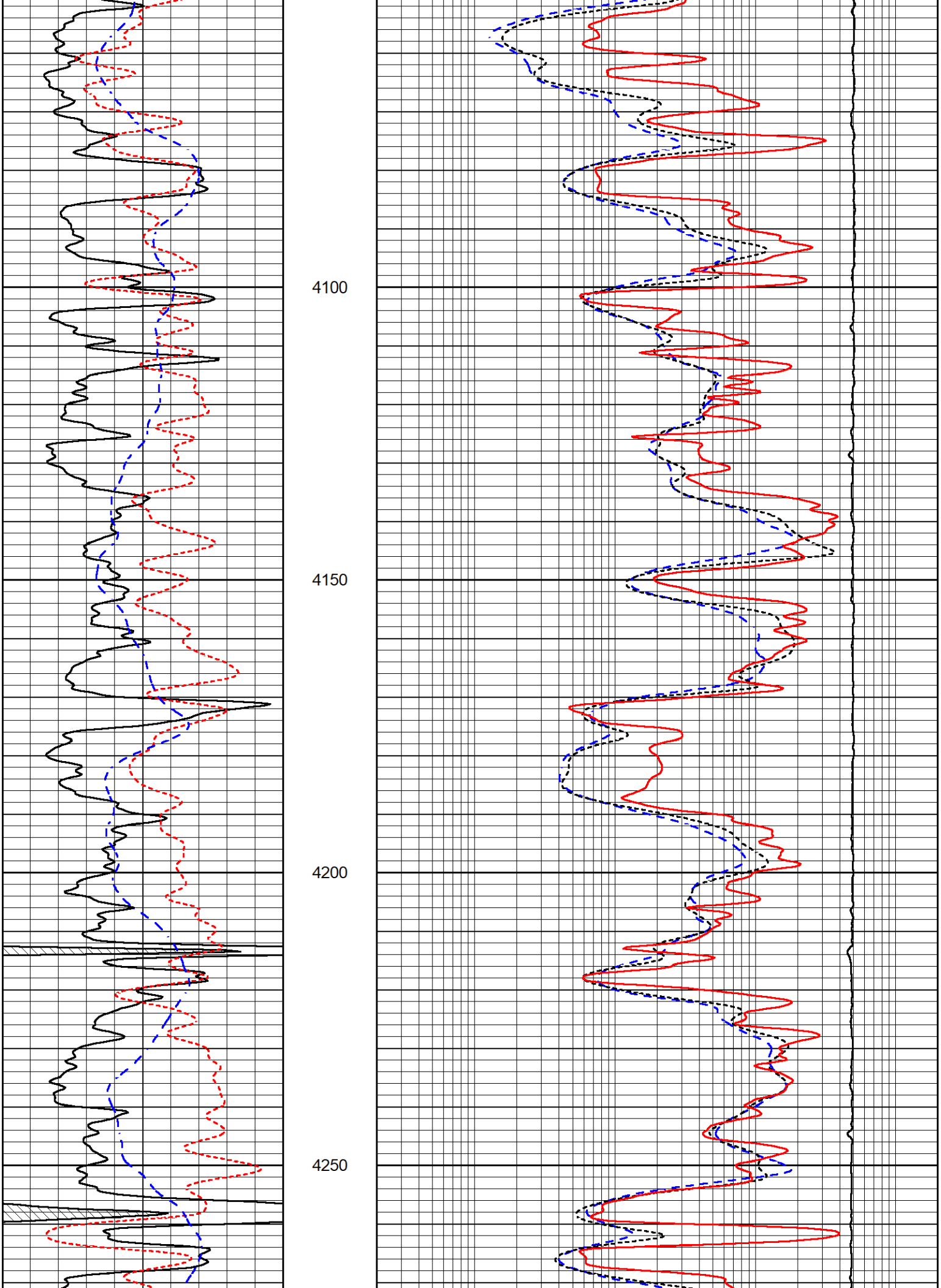

3000
3050
3100
3150

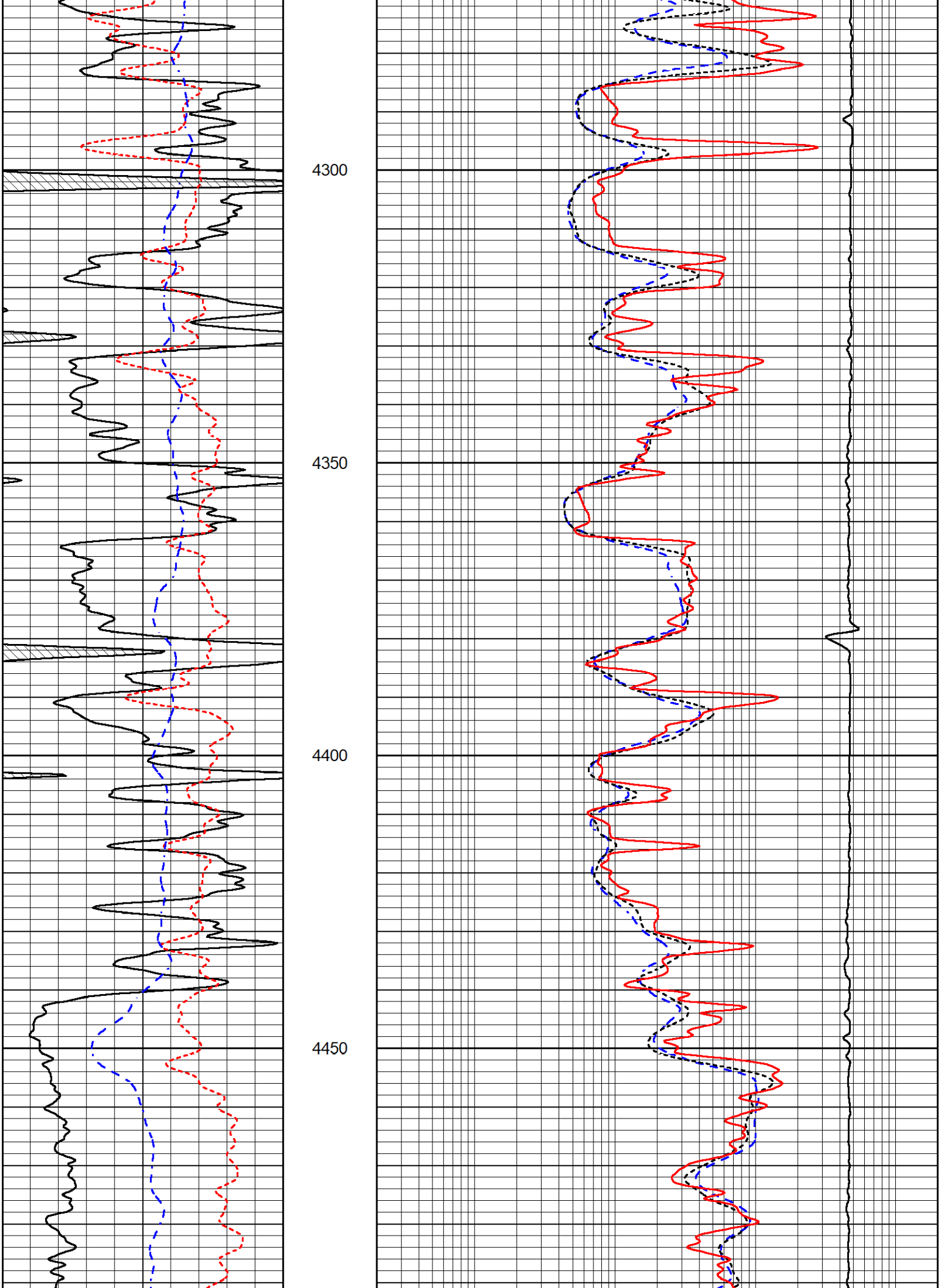

3200
3250
3300
3350

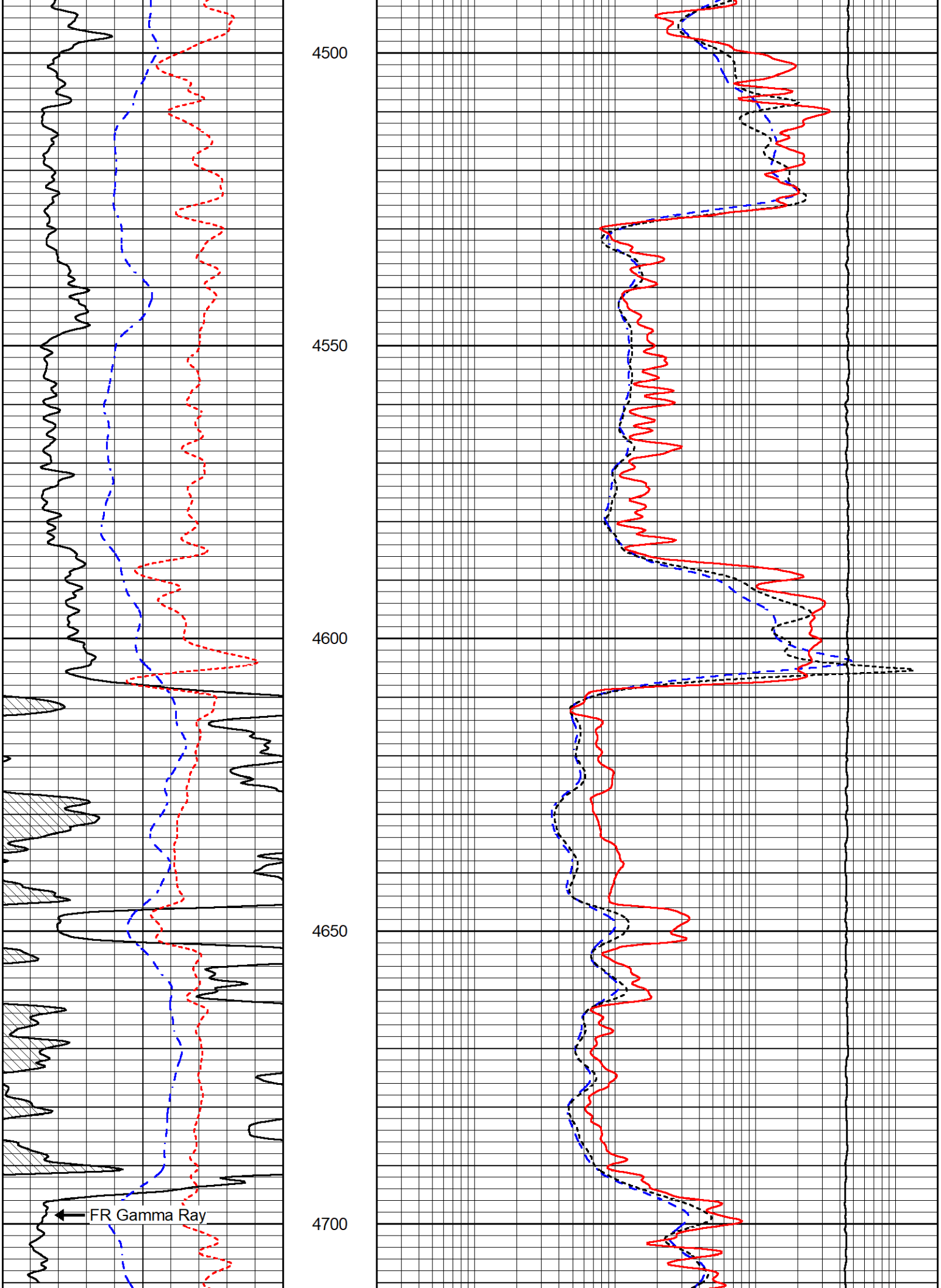

3400
3450
3500
3550
3600

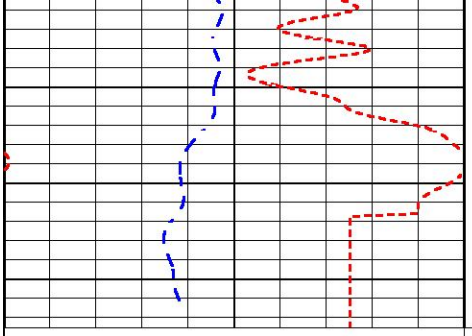

3650
3700
3750
3800

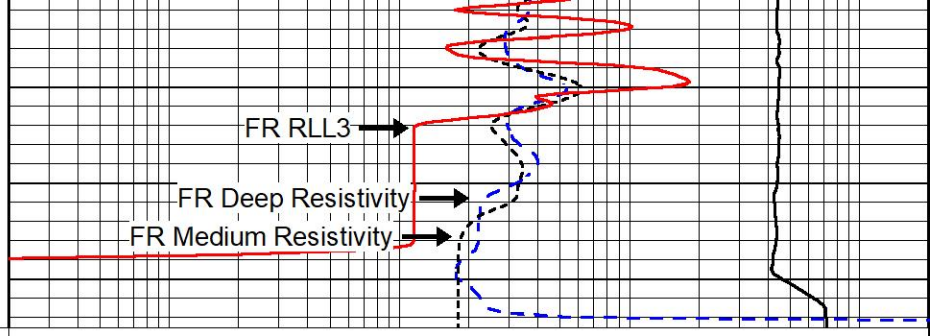

3850
3900
3950
4000
4050


4100
4150
4200
4250


4300
4350
4400
4450


4500
4550
4600
4650
4700
FR Gamma Ray





0	Gamma Ray (GAPI)	150
50	RXORT	250
-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

MIDWEST WIRELINE

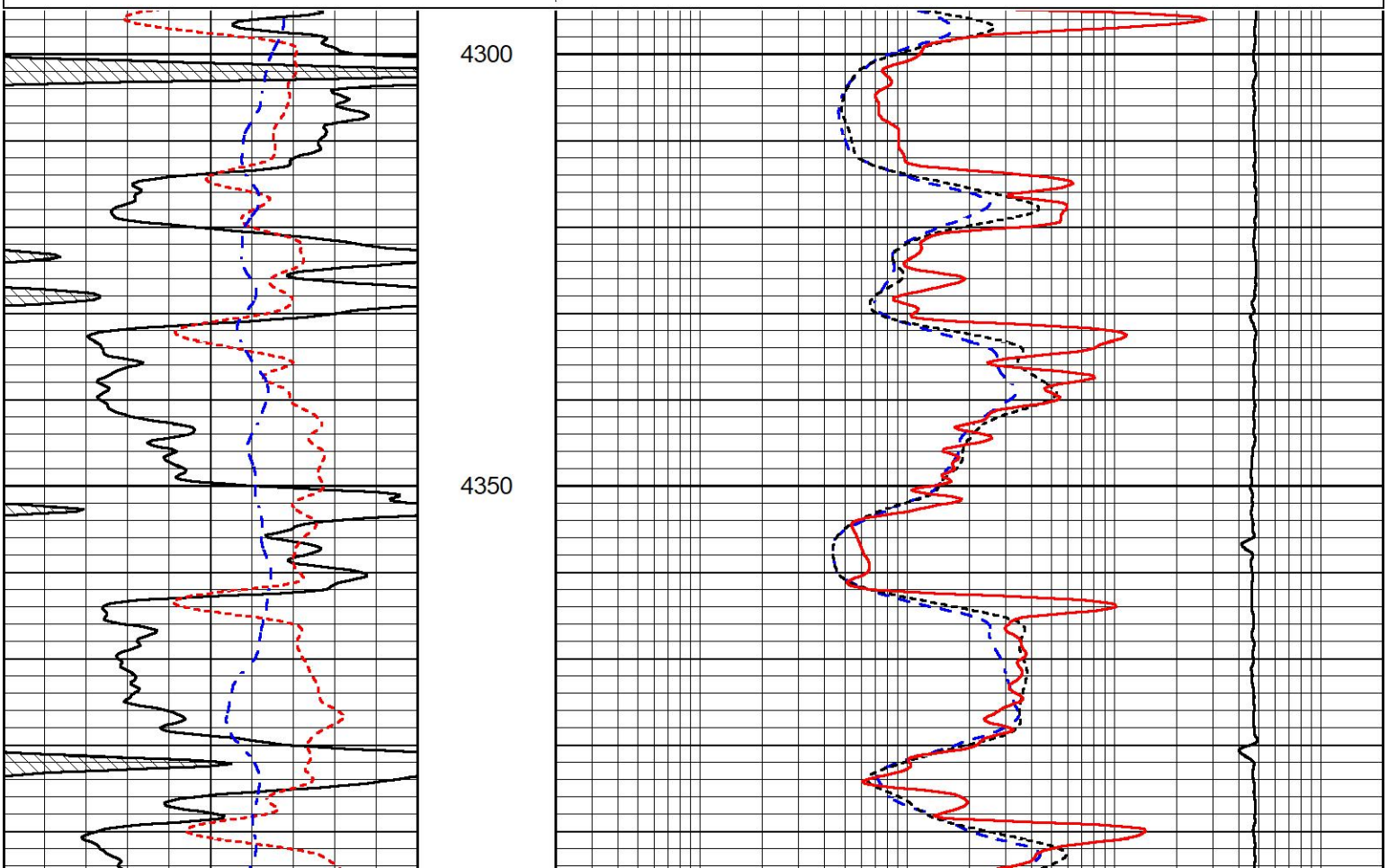
REPEAT SECTION

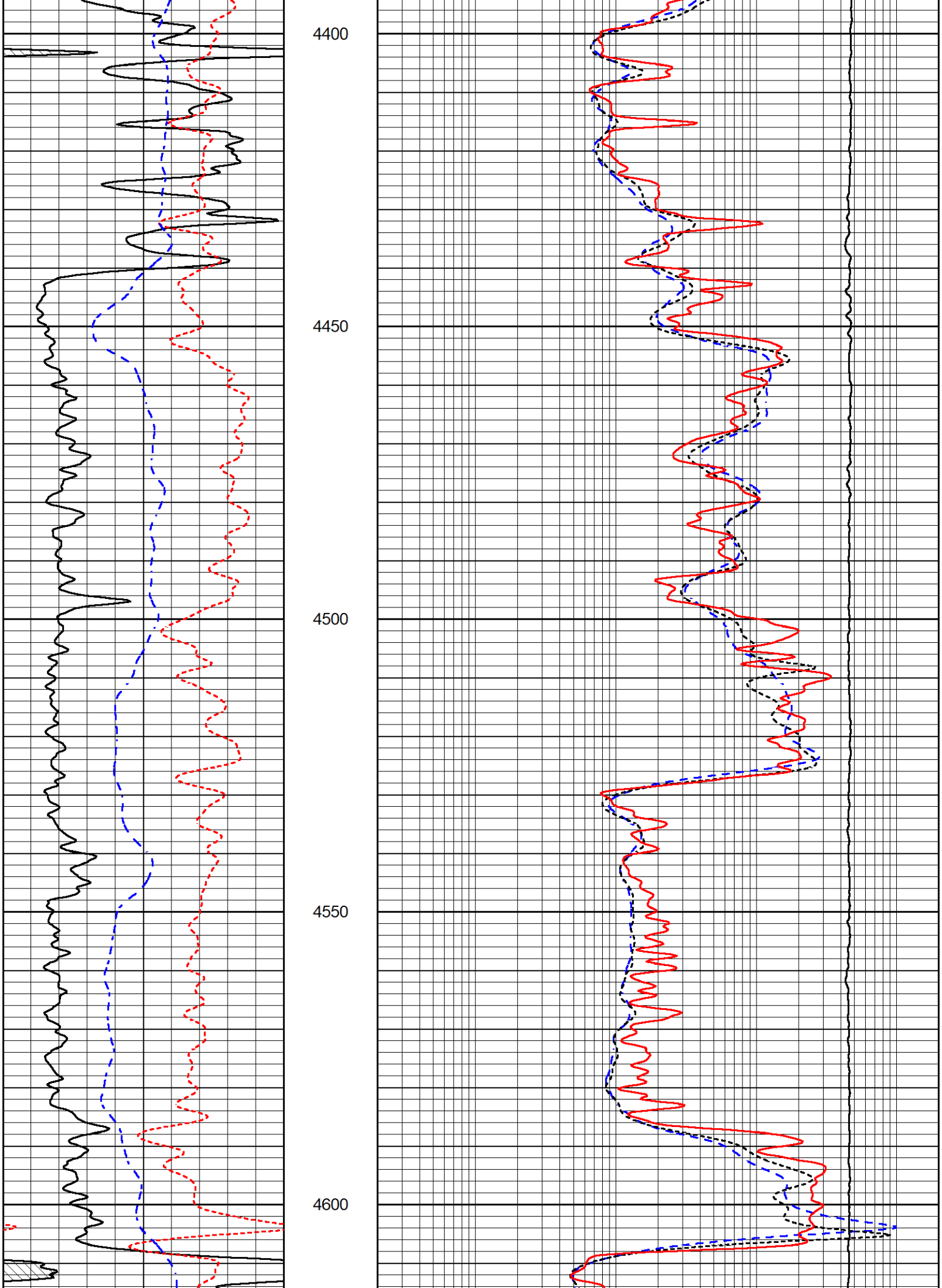
REPEAT PASS

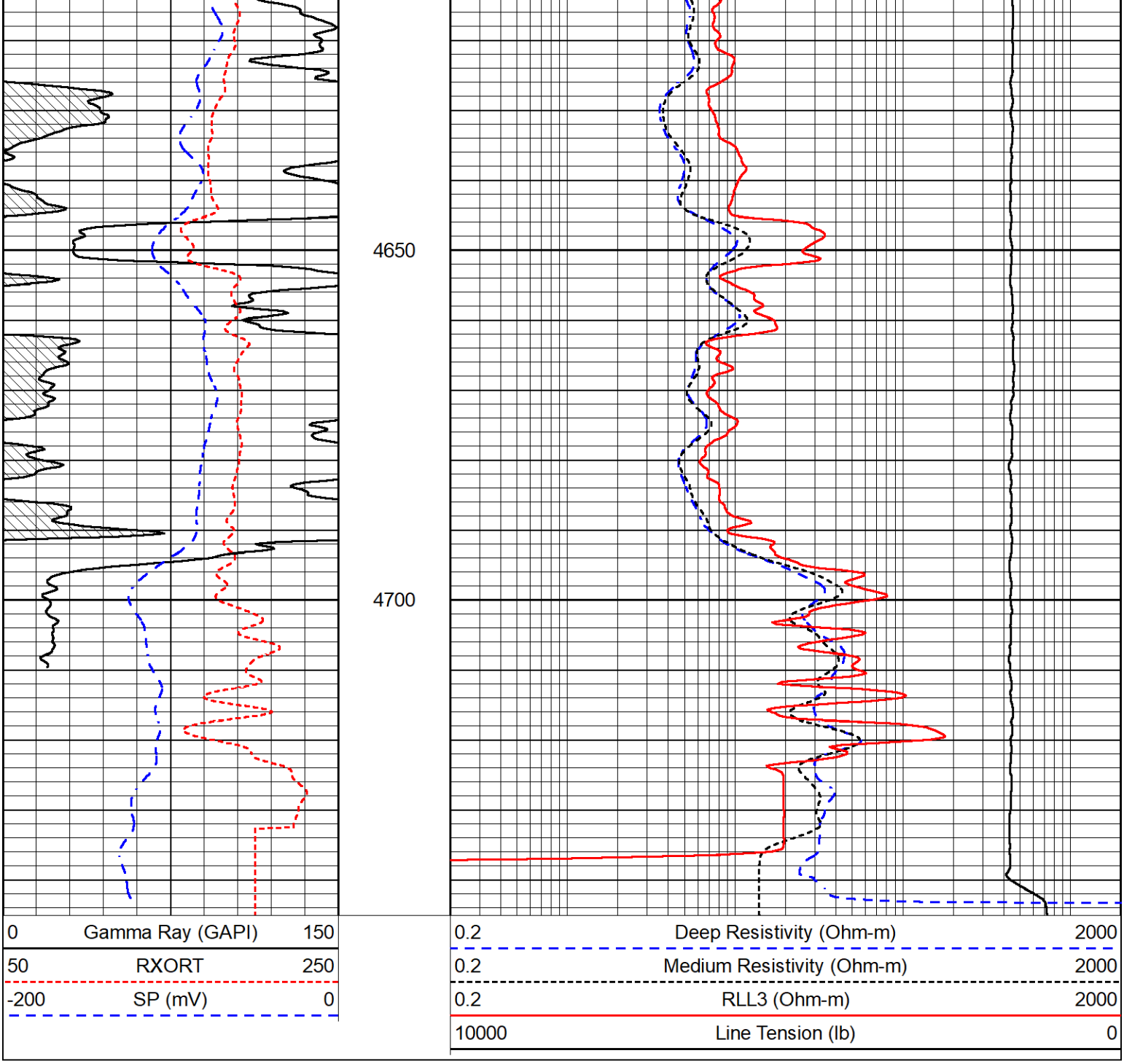
Database File	campbell_gibson 1.db
Dataset Pathname	stkml/pass2.1
Presentation Format	_dil
Dataset Creation	Sun Dec 31 15:56:19 2023
Charted by	Depth in Feet scaled 1:240

0	Gamma Ray (GAPI)	150
50	RXORT	250
-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




4400
4450
4500
4550
4600



Calibration Report

Database File	campbell_gibson 1.db
Dataset Pathname	stkml/pass3.1
Dataset Creation	Sun Dec 31 16:19:54 2023

Dual Induction Calibration Report

Serial-Model:	505 HT-M&W
Surface Cal Performed:	Thu Nov 9 13:00:56 2023

	Readings		References			Results	
Loop:	Air	Loop	Air	Loop		m	b
Deep	167.000	835.000	0.000	255.800	mmho/m	0.550	-56.000
Medium	1348.000	1348.000	0.000	255.800	mmho/m	0.450	-55.000

Micrologic Calibration Report

Serial-Model: 402-PSI STKBL ML
Performed: Sat Dec 2 02:32:23 2023

	Readings		References			Results	
	Zero	Cal	Zero	Cal		m	b
Normal	0.0037	0.0043	0.0000	10.0000	Ohm-m	17500.0000	-0.5000
Inverse	0.1208	0.0013	0.0000	10.0000	Ohm-m	18500.0000	0.0000
Caliper	1.0046	1.1419	5.5000	20.0000	in	50.0000	-44.5500

LITHODENSITY Calibration Report

Serial Number: 701-01
Tool Model: STEP LITHO Short
Performed: Fri Dec 15 13:02:54 2023

Source:

	Win1	Win2	Win3	Win4	Win5	Win6	Win7	Win8	
Background:									
SS:	50	53	200	252	23	67	44	1	cps
LS:	78	88	332	424	48	131	87	3	cps
Aluminum:									
SS:	1069	1323	3068	2763	51	72	47	3	cps
LS:	1171	2261	4196	1923	57	133	82	6	cps
Magnesium:									
SS:	1756	2109	4999	4049	59	72	48	5	cps
LS:	4803	8914	16228	6562	125	123	85	17	cps
Aluminum+Iron:									
SS:	682	909	2535	2363	47	72	47	3	cps
LS:	682	1582	3537	1707	57	132	82	5	cps

	Density			PE		
	Actual	Calibrated		Actual	Calibrated	Quality
Background:						
SS:						0.201
LS:						0.203
Aluminum:						
SS:	2.6000	2.6000	g/cc			0.208
LS:	2.6000	2.6000	g/cc			0.236
Magnesium:						
SS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.205
LS:	1.6800	1.6800	g/cc	2.5700	2.5700	0.183
Aluminum+Iron:						
SS:					6.1800	0.210
LS:					6.1800	0.234

Caliper:	Reference:		Reading:
Small Ring:	6.0	in	0.2
Large Ring:	16.0	in	0.8
Gain:	14.000		
Offset:	2.000		

Compensated Neutron Calibration Report

Serial Number: 210
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

Serial Number:	105	
Tool Model:	M&W	
Performed:	Sat Oct 21 23:48:19 2023	
Calibrator Value:	500.0	GAPI
Background Reading:	24.0	cps
Calibrator Reading:	637.0	cps
Sensitivity:	0.6000	GAPI/cps

MIDWEST WIRELINE

Company	Campbell Energy, LLC
Well	Gibson #1
Field	
County	Barber
State	Kansas