DUAL INDUCTION
GR/LL3 LOG

Company SAGE NR OK, LLC
Well MUSSON # 3-A
Field VESTAL
County COWLEY
State KANSAS

Company SAGE NR OK, LLC
Well MUSSON # 3-A
Field VESTAL
County COWLEY
State KANSAS

Location: API # : 15-035-24755-0000

SW NW NE SE
2092' FSL & 1077' FEL

SEC 19 TWP 34S RGE 3E

Other Services
CDL/N
MEL

Permanent Datum GL Elevation 1150
Log Measured From KB
Drilling Measured From KB 9

Elevation
K.B. 1159
D.F. 1158
G.L. 1150

Date	9-8-2022		
Run Number	ONE		
Depth Driller	3911		
Depth Logger	3908		
Bottom Logged Interval	3907		
Top Log Interval	300		
Casing Driller	8.625" @ 334		
Casing Logger	8.625" @ 334'		
Bit Size	7.875"		
Type Fluid in Hole	MUD		
Density / Viscosity	9.0 / 62		
pH / Fluid Loss	9.5 / 8.0		
Source of Sample	PIT		
Rm @ Meas. Temp	2.2 @ 72		
Rmf @ Meas. Temp	1.76 @ 72		
Rmc @ Meas. Temp	2.64 @ 72		
Source of Rmf / Rmc	CALC		
Rm @ BHT	1.32 @ 115		
Time Circulation Stopped	10:00 AM		
Time Logger on Bottom	2:00 PM		
Maximum Recorded Temperature	115		
Equipment Number	OW1		
Location	HOMINY, OK		
Recorded By	SHELDON TYLER	MR. MACKEY	
Witnessed By	MR. WOLFE	MR. ADCOX	

<<< Fold Here >>>

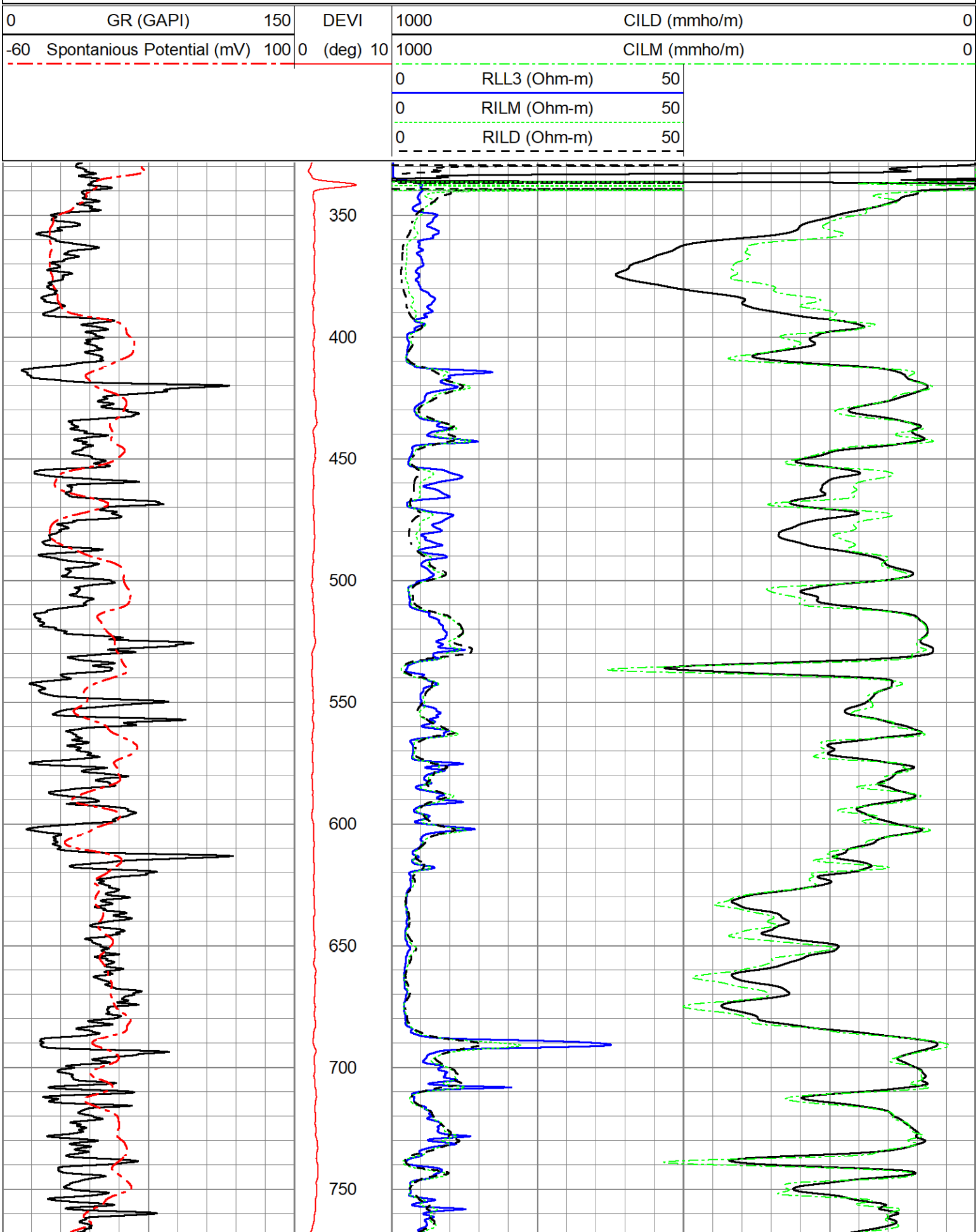
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

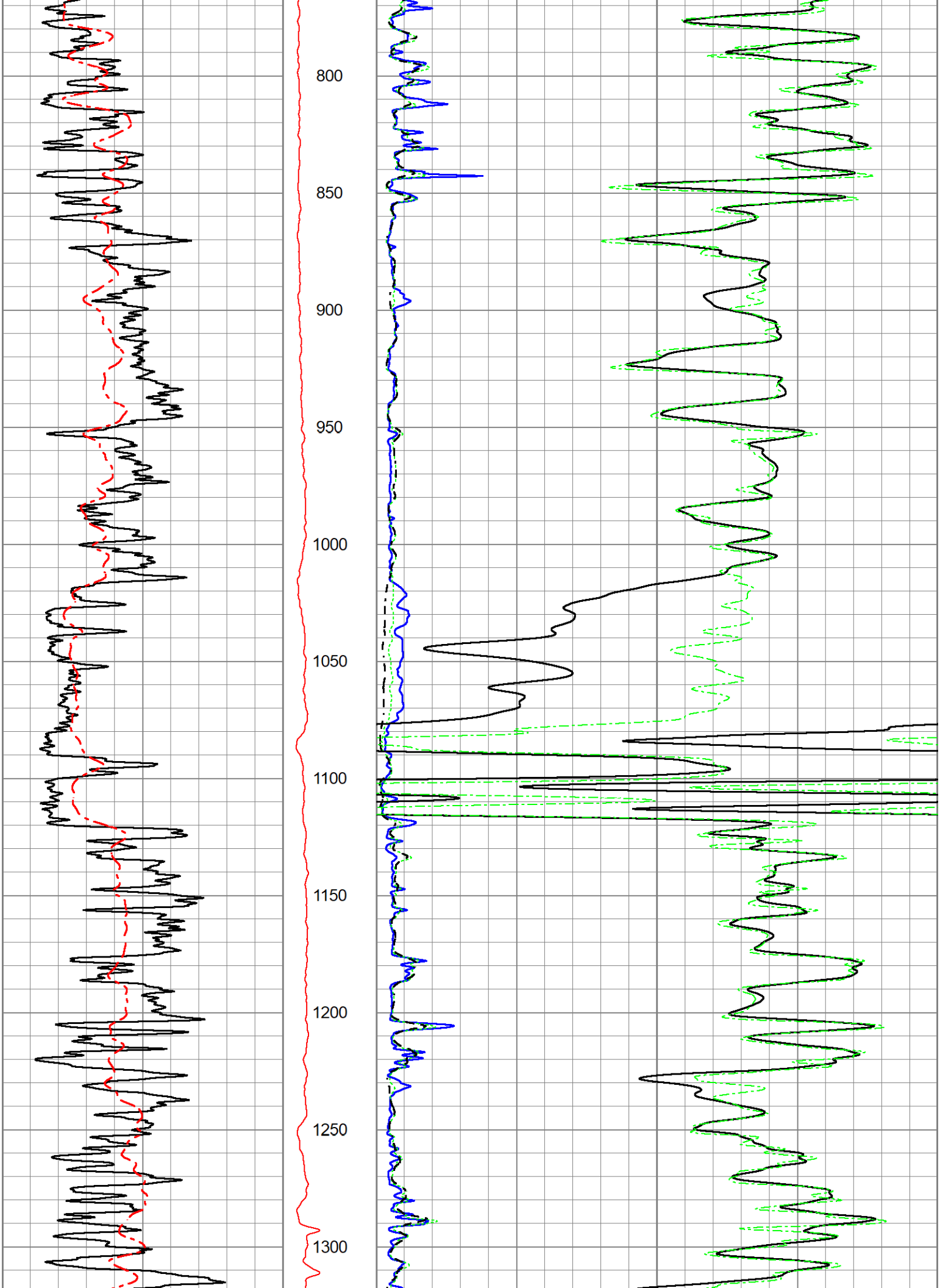
Comments

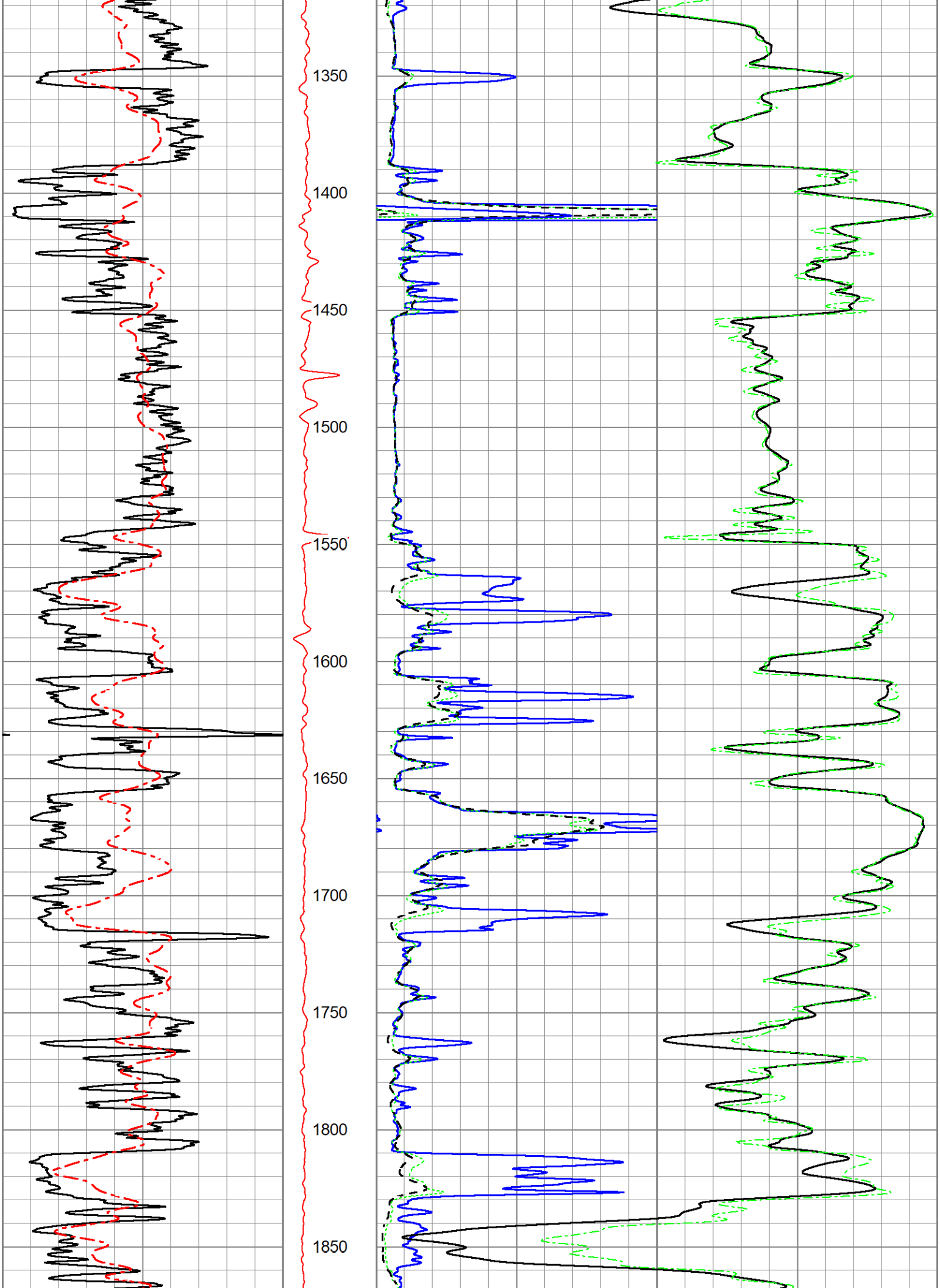
FILE # OW1-9109 SAGE
CREW TODAY IS KIDD, TAFT
THANK YOU FOR USING OSAGE WIRELINE

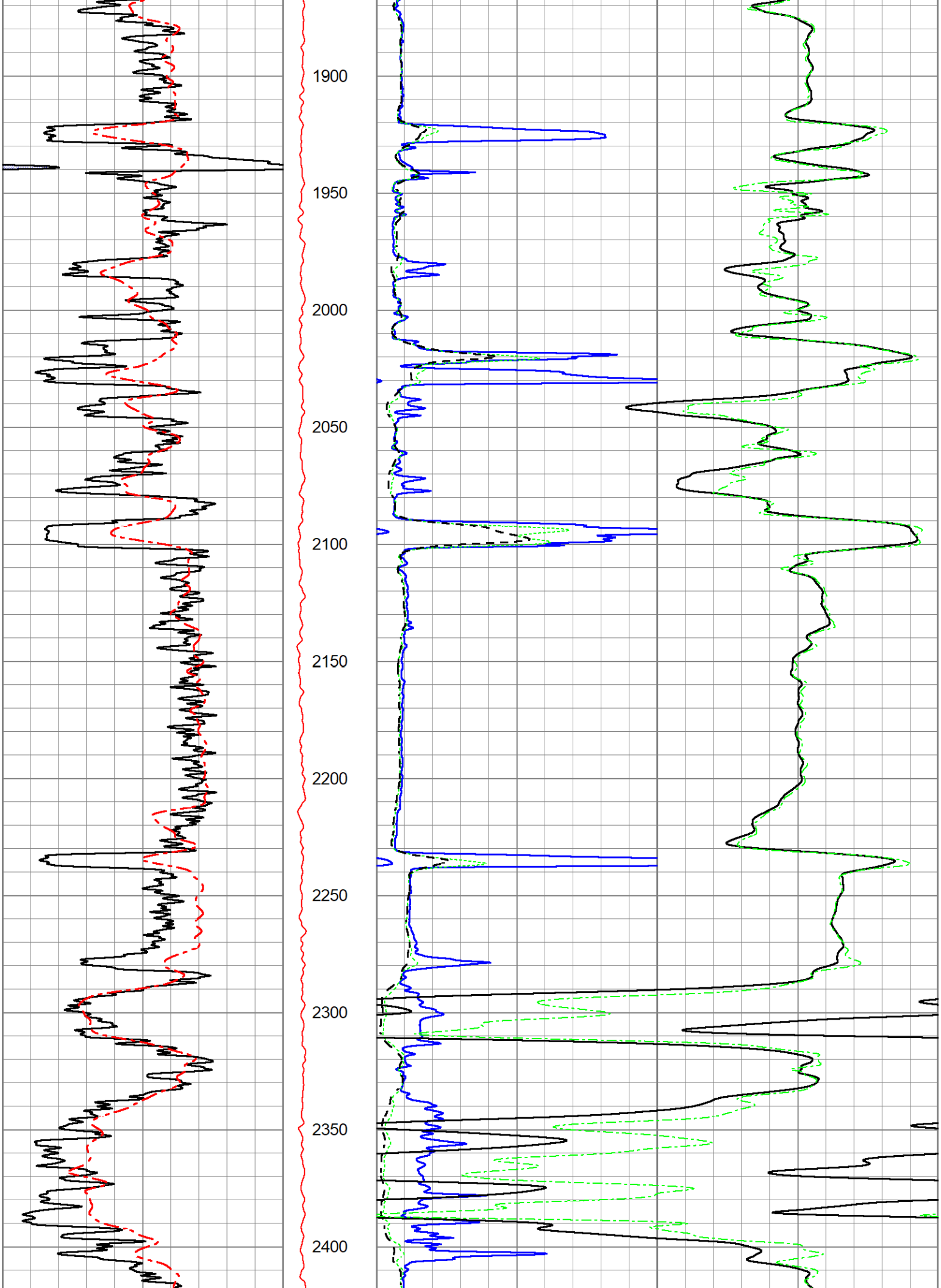
2" DUAL INDUCTION LOG

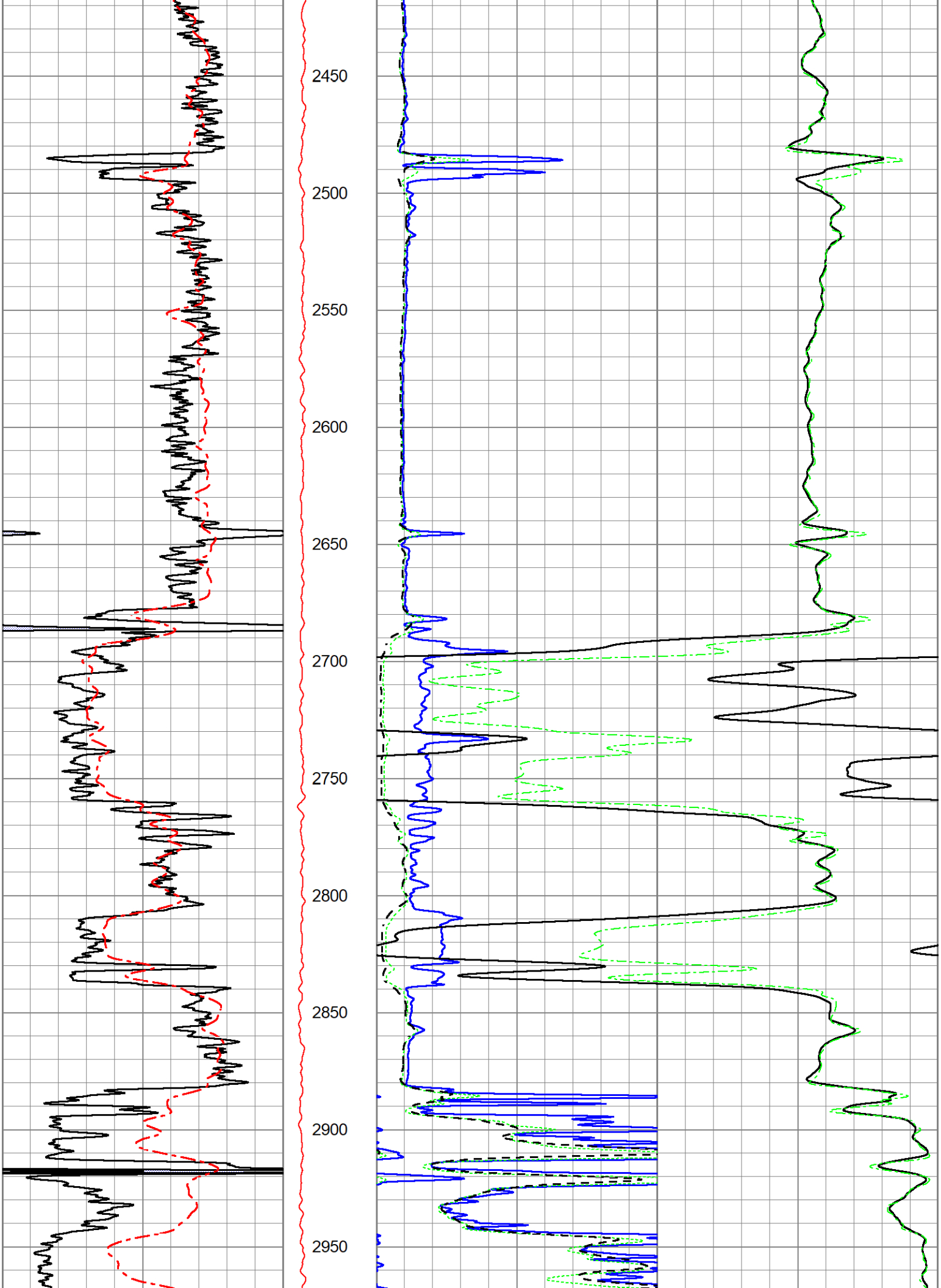
Database File	ow1-9109 sage.db
Dataset Pathname	pass3.3
Presentation Format	mmdil2
Dataset Creation	Thu Sep 08 14:46:12 2022
Charted by	Depth in Feet scaled 1:600

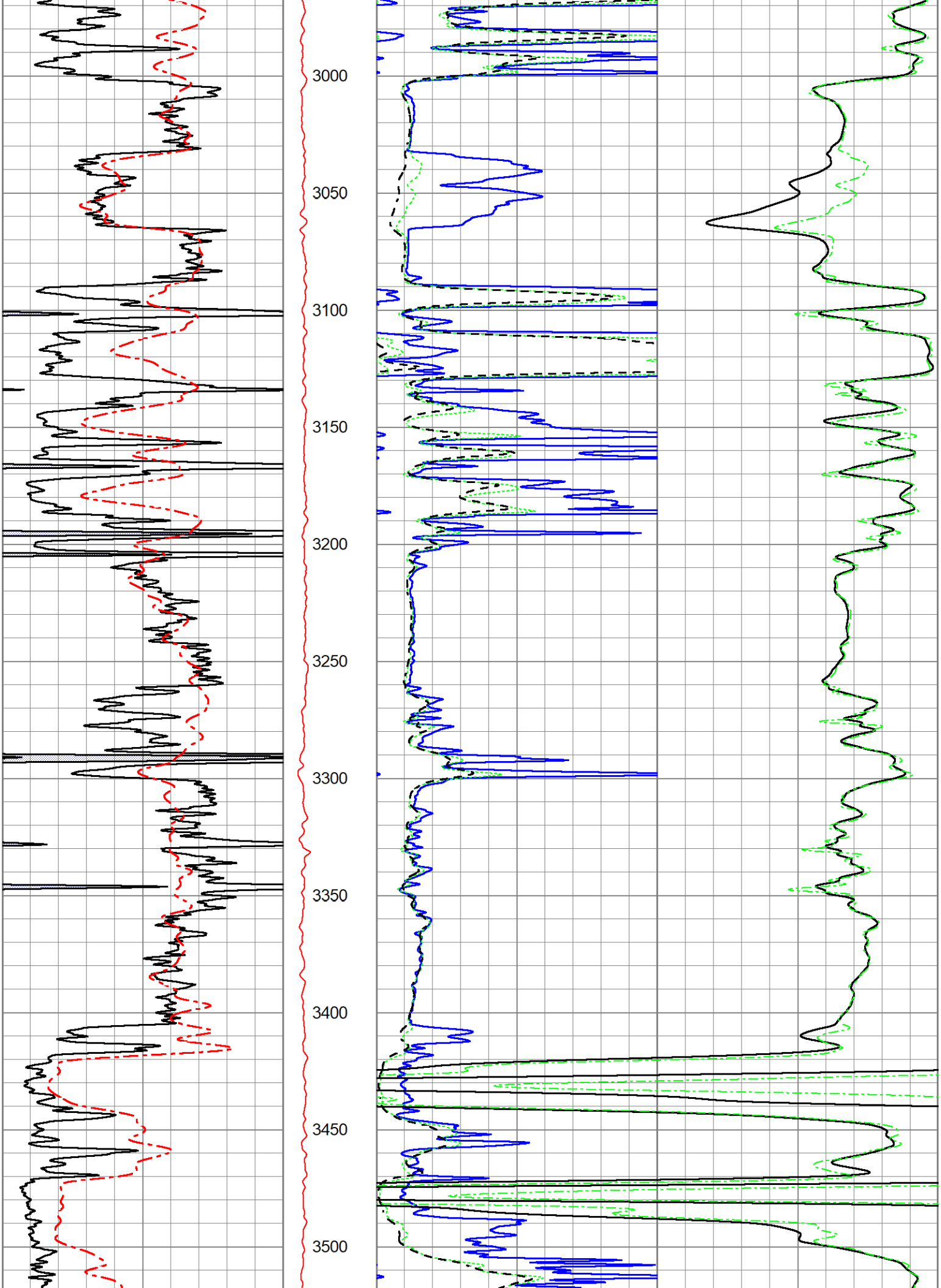


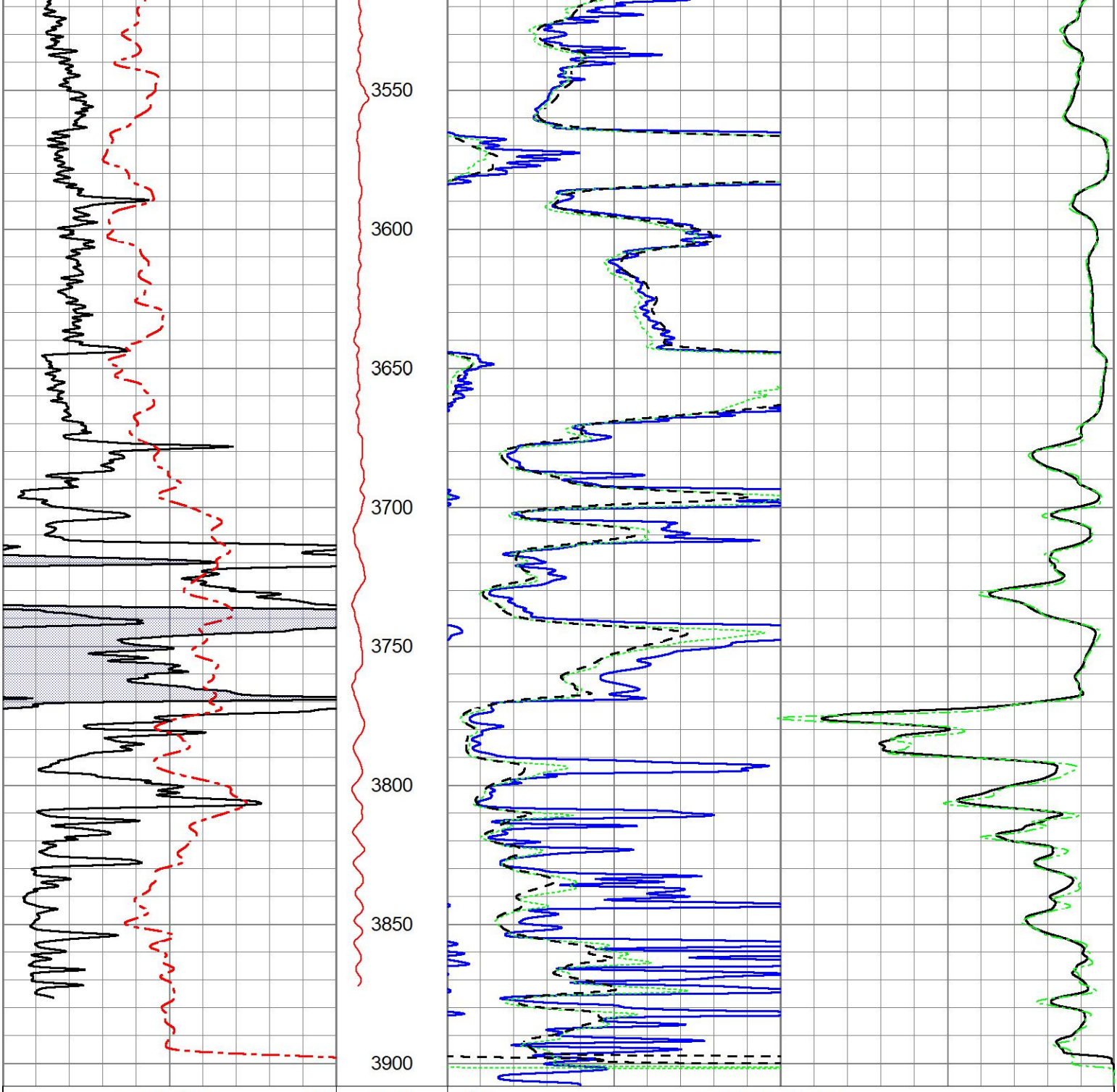

800
850
900
950
1000
1050
1100
1150
1200
1250
1300


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

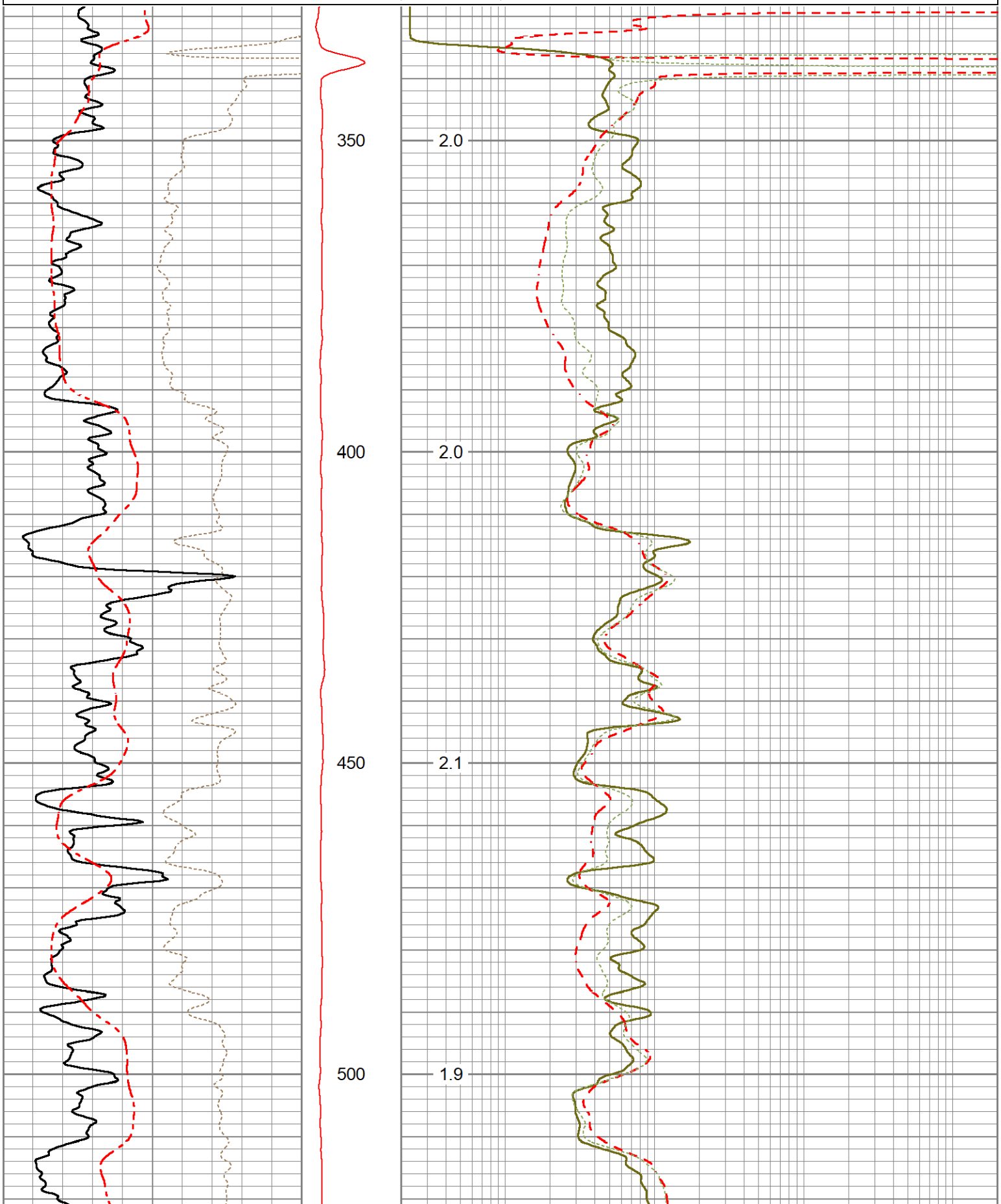


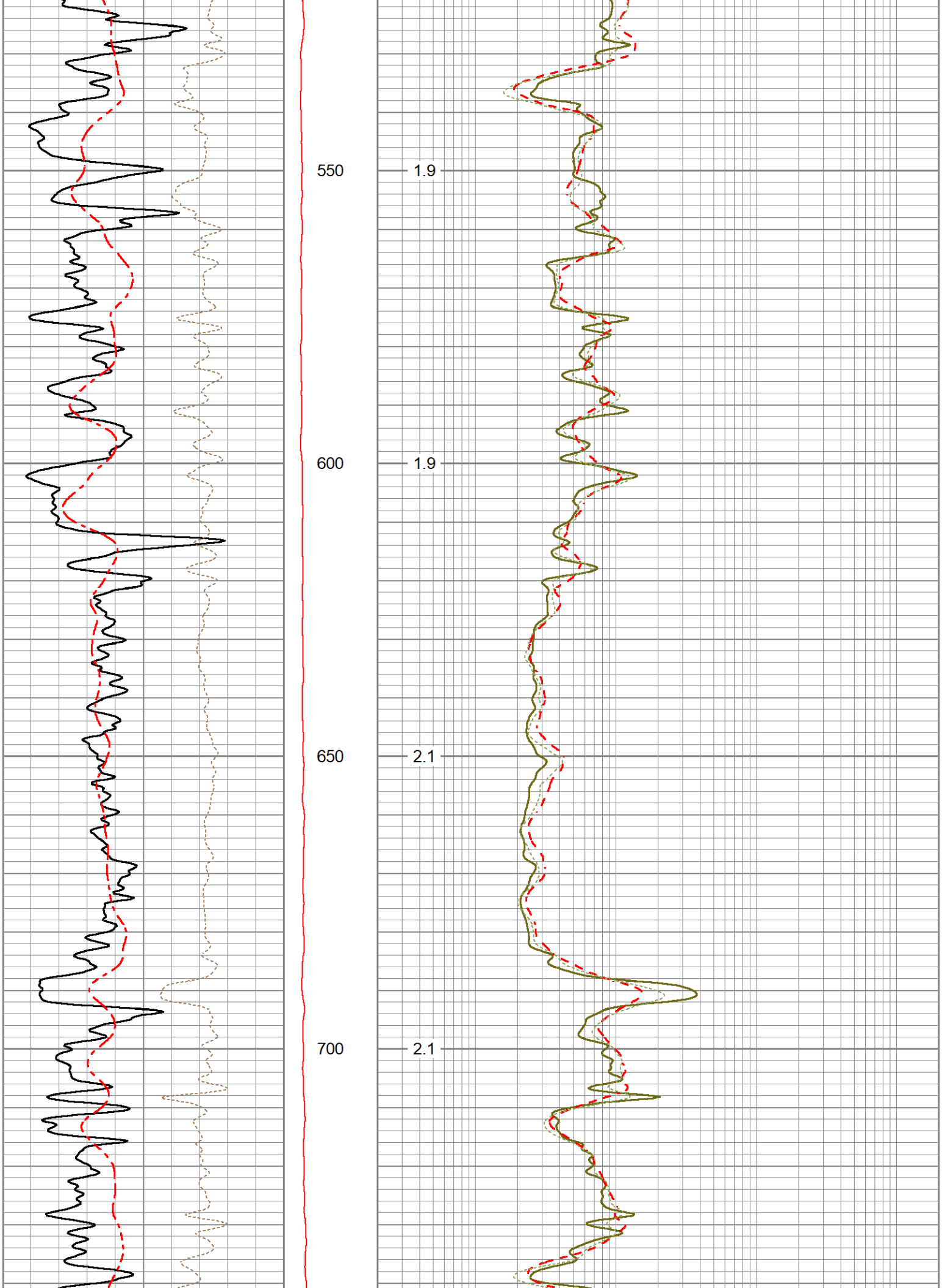
5" DUAL INDUCTION LOG

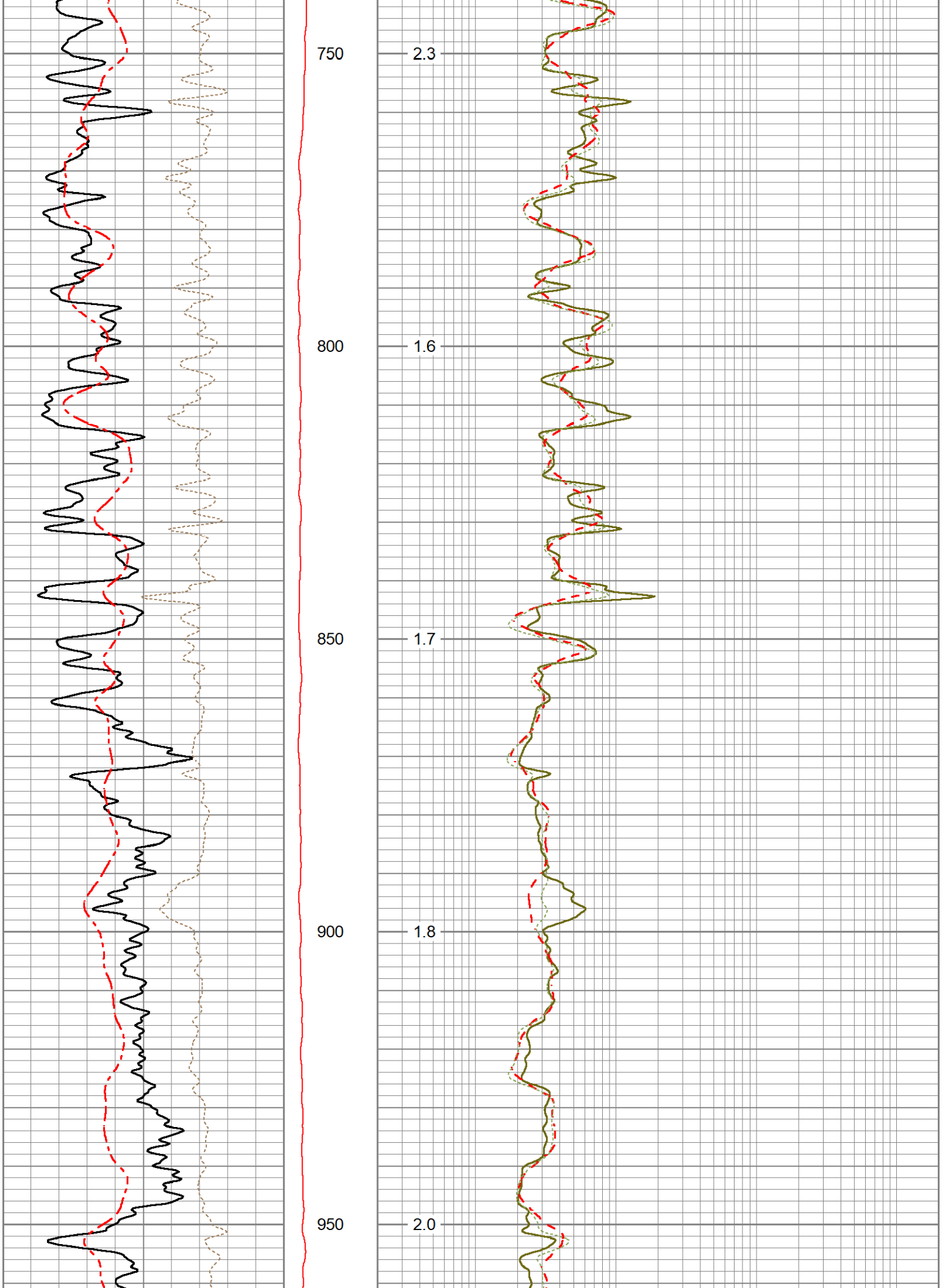
Database File	ow1-9109 sage.db
Dataset Pathname	pass3.4
Presentation Format	mmdil5
Dataset Creation	Thu Sep 08 14:46:26 2022

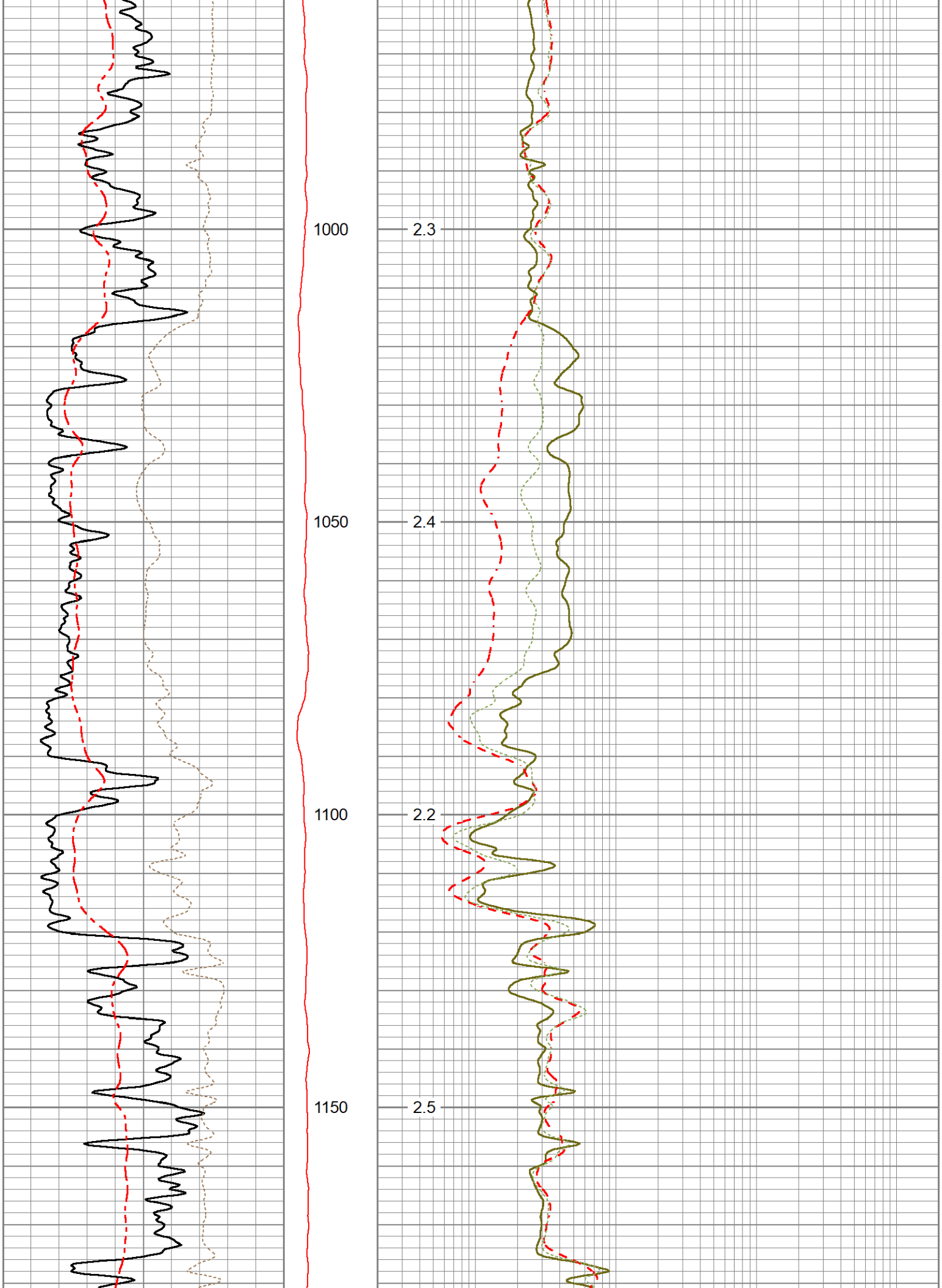
Dataset Creation Thu Sep 08 14:46:26 2022
Charted by Depth in Feet scaled 1:240

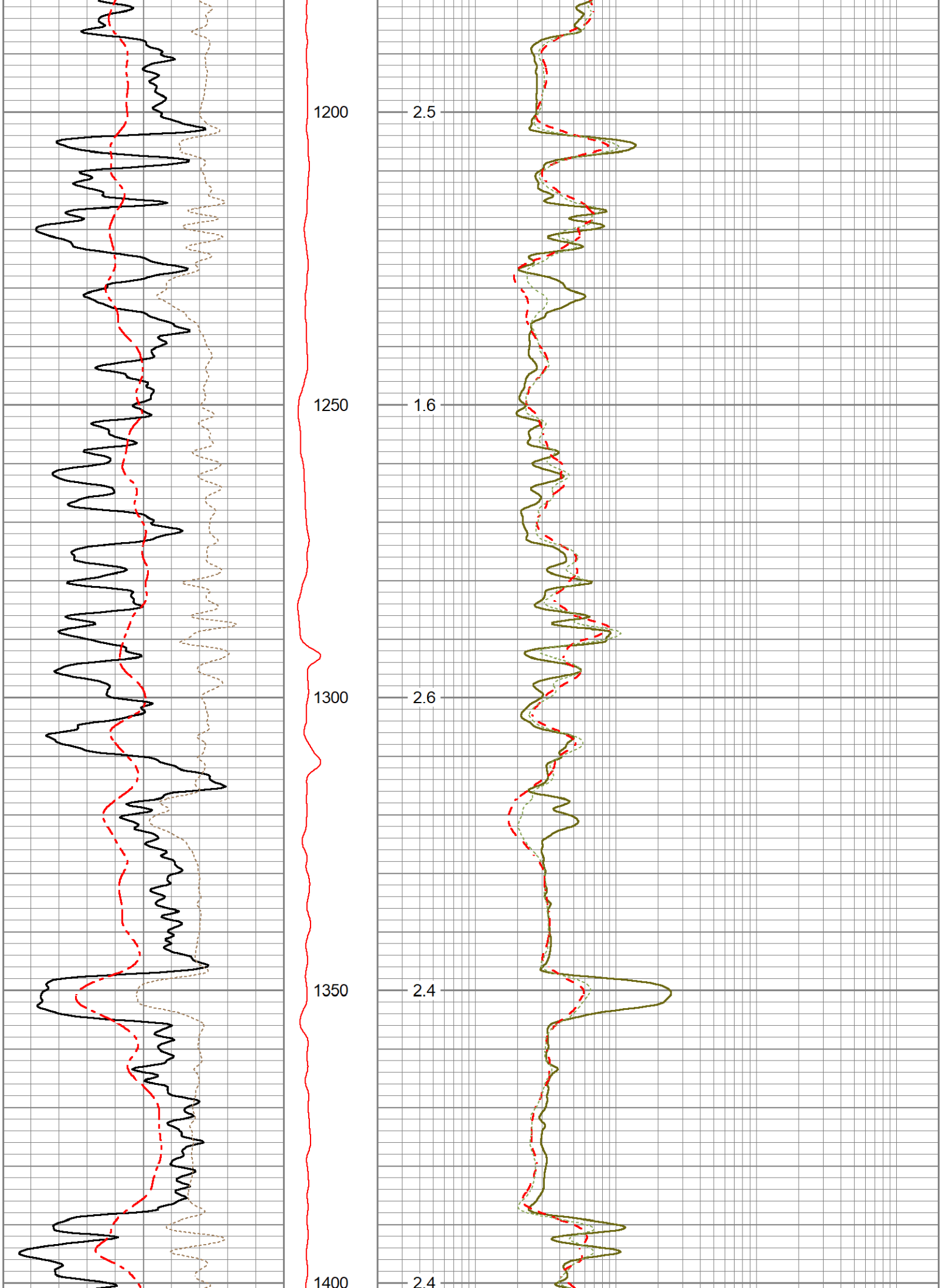
0	Gamma Ray (GAPI)	150	DEVI		0.2	Shallow Resistivity (Ohm-m)	2000
-60	Spontaneous Potential (mV)	100	0	(deg) 10	0.2	Deep Resistivity (Ohm-m)	2000
-175	Rxo\Rt	75			0.2	Medium Resistivity (Ohm-m)	2000
					DEVI (deg)		

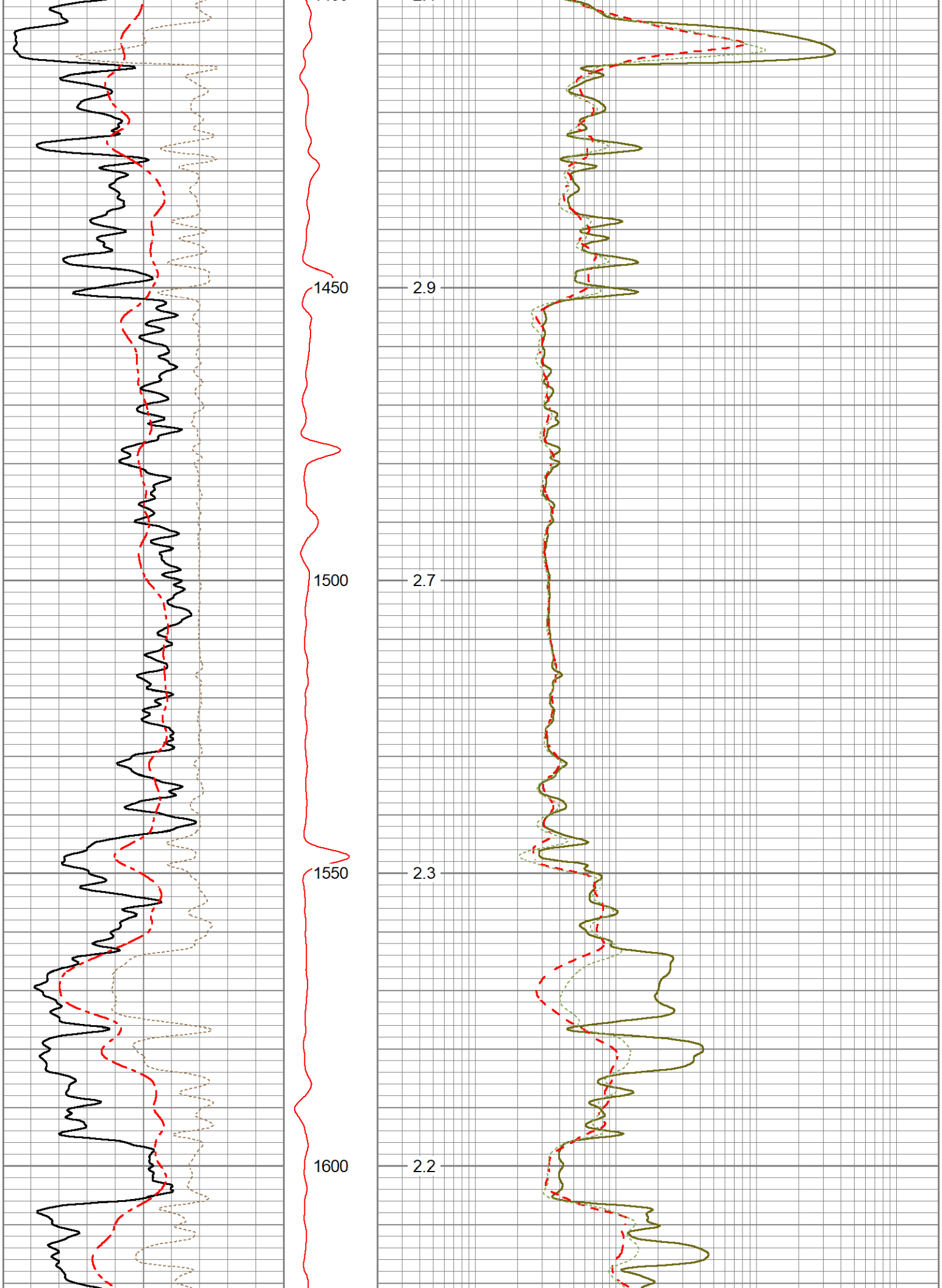


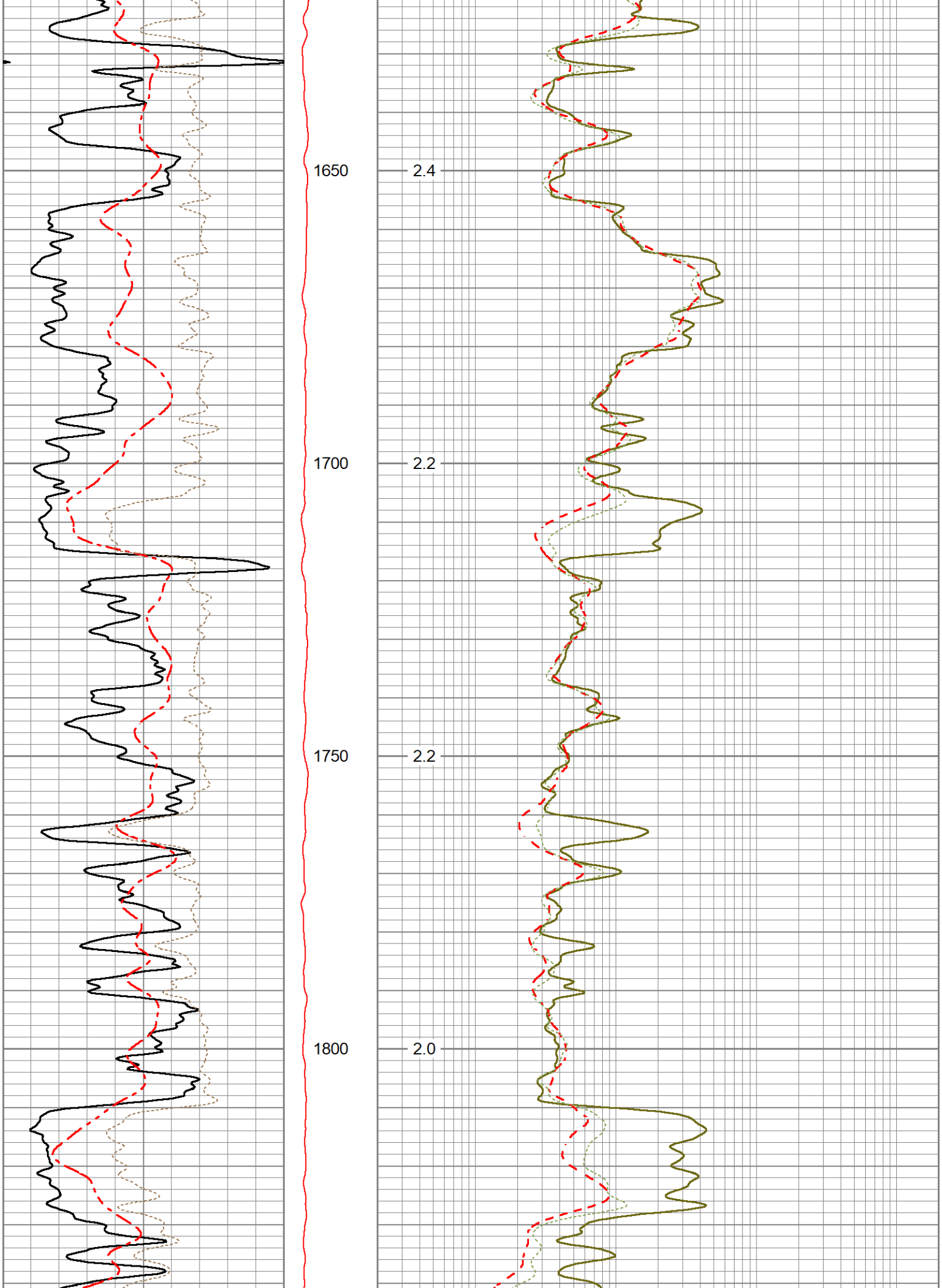

550
1.9
600
1.9
650
2.1
700
2.1

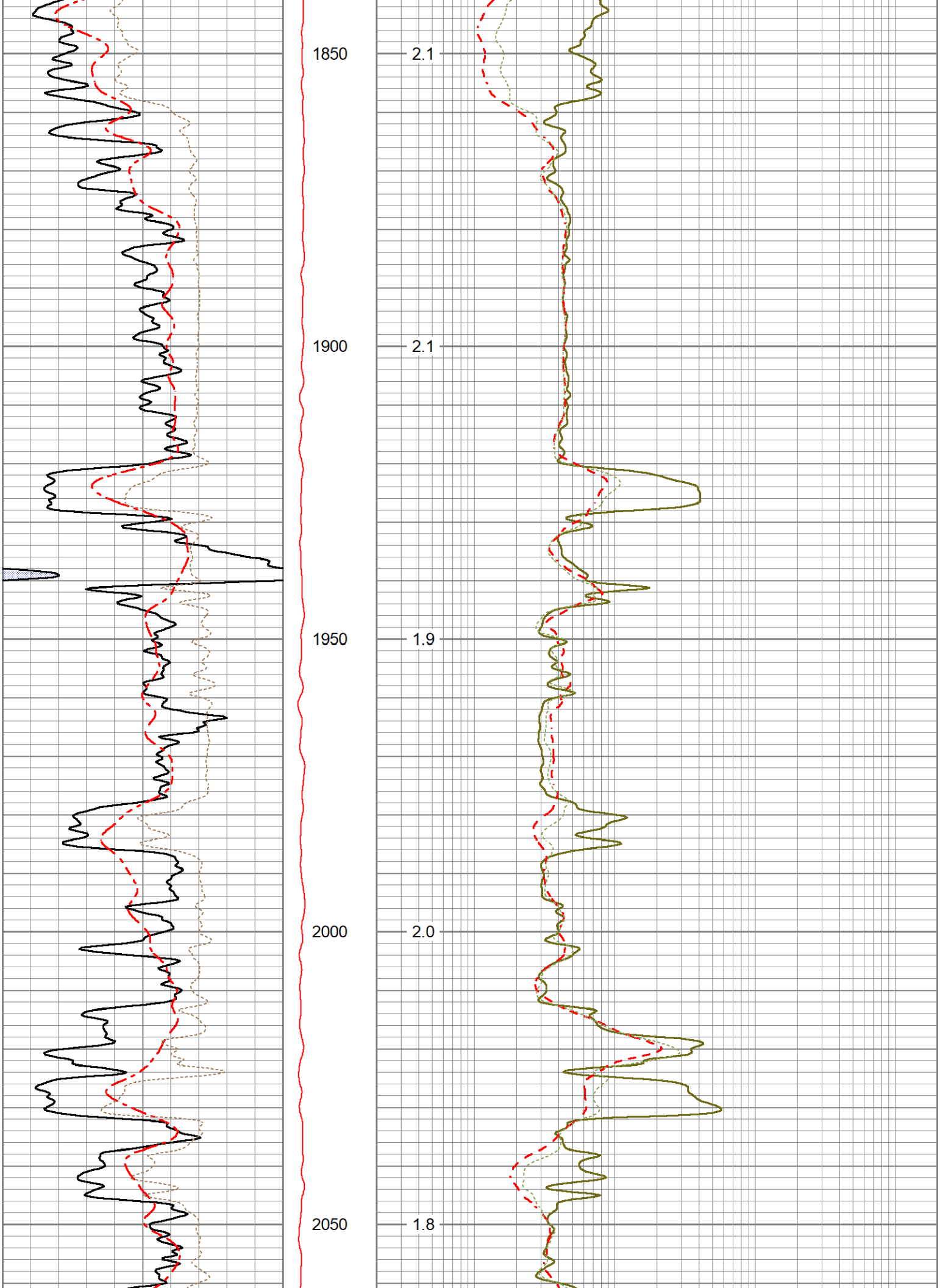

750
800
850
900
950
2.3
1.6
1.7
1.8
2.0

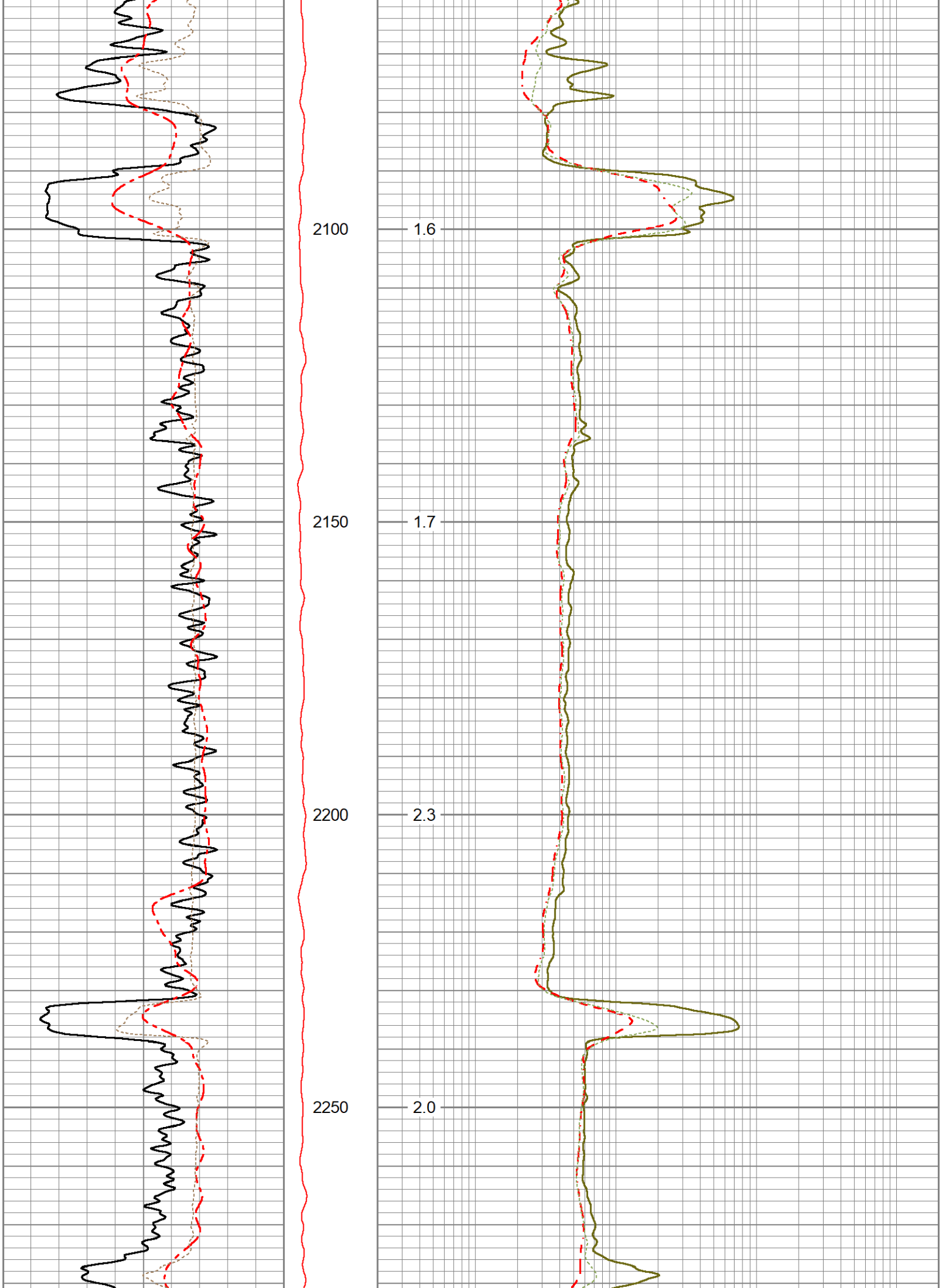

1000
1050
1100
1150
2.3
2.4
2.2
2.5

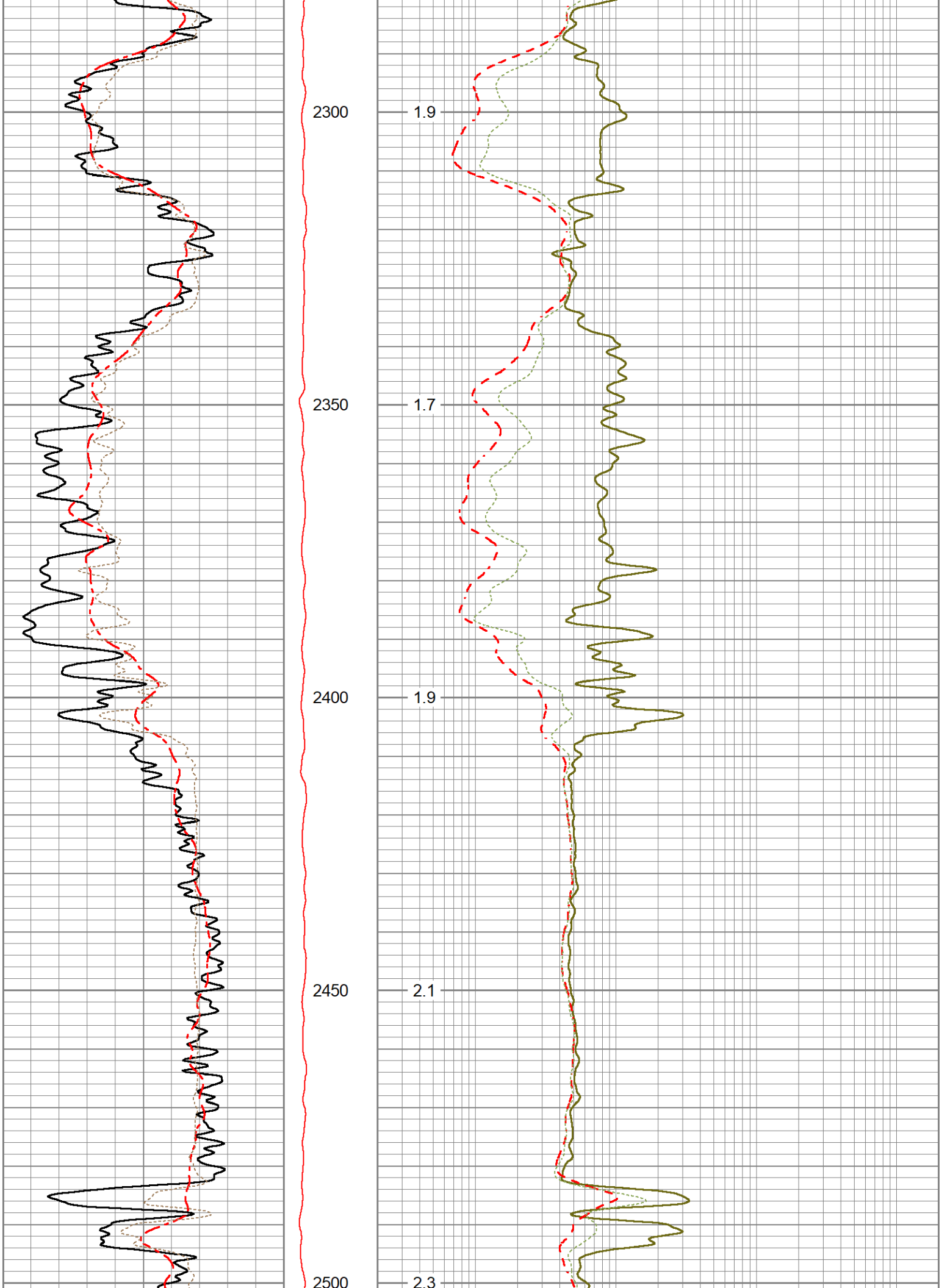

1200
1250
1300
1350
1400
2.5
1.6
2.6
2.4
2.4

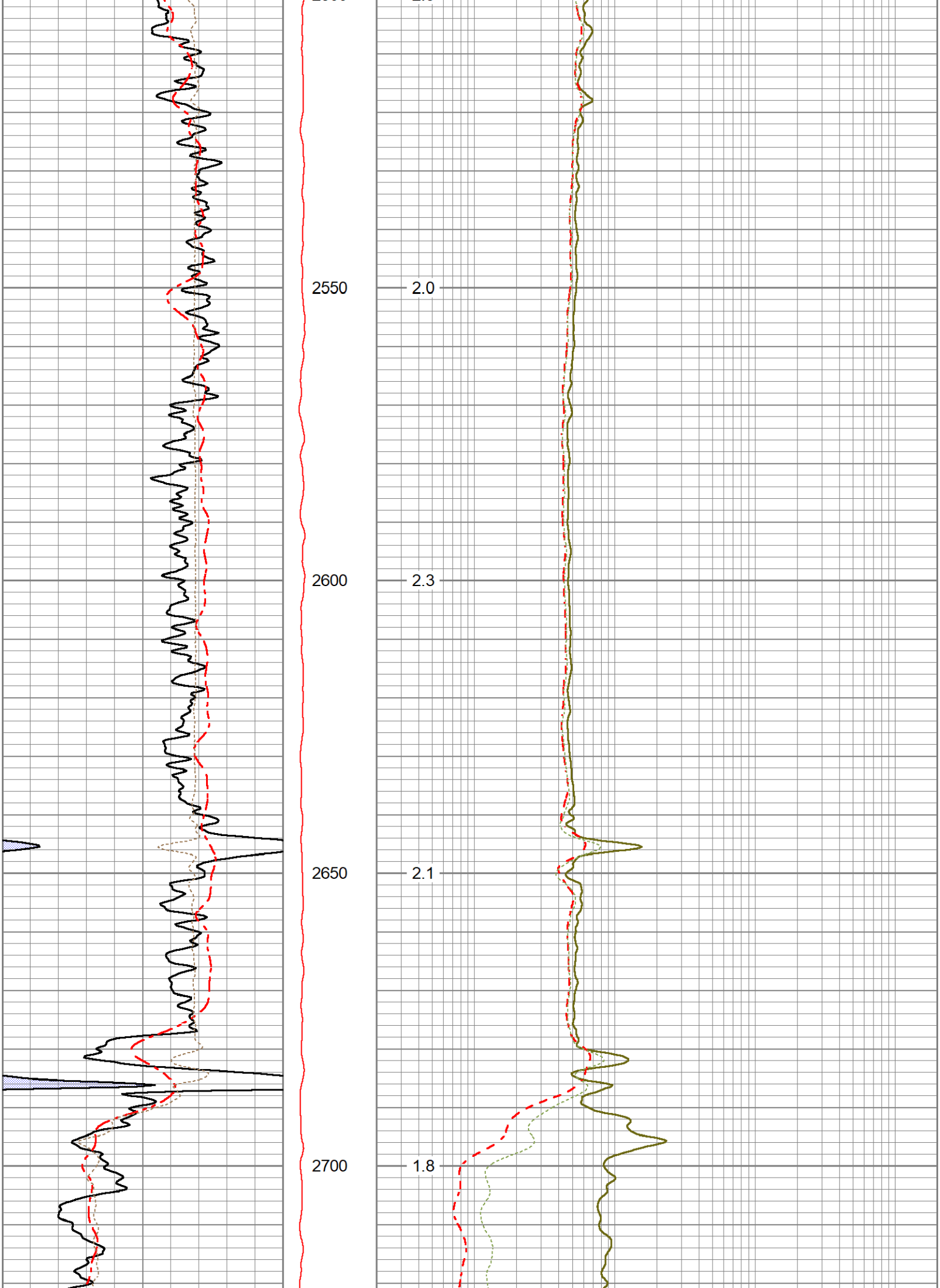

1450
1500
1550
1600
2.9
2.7
2.3
2.2

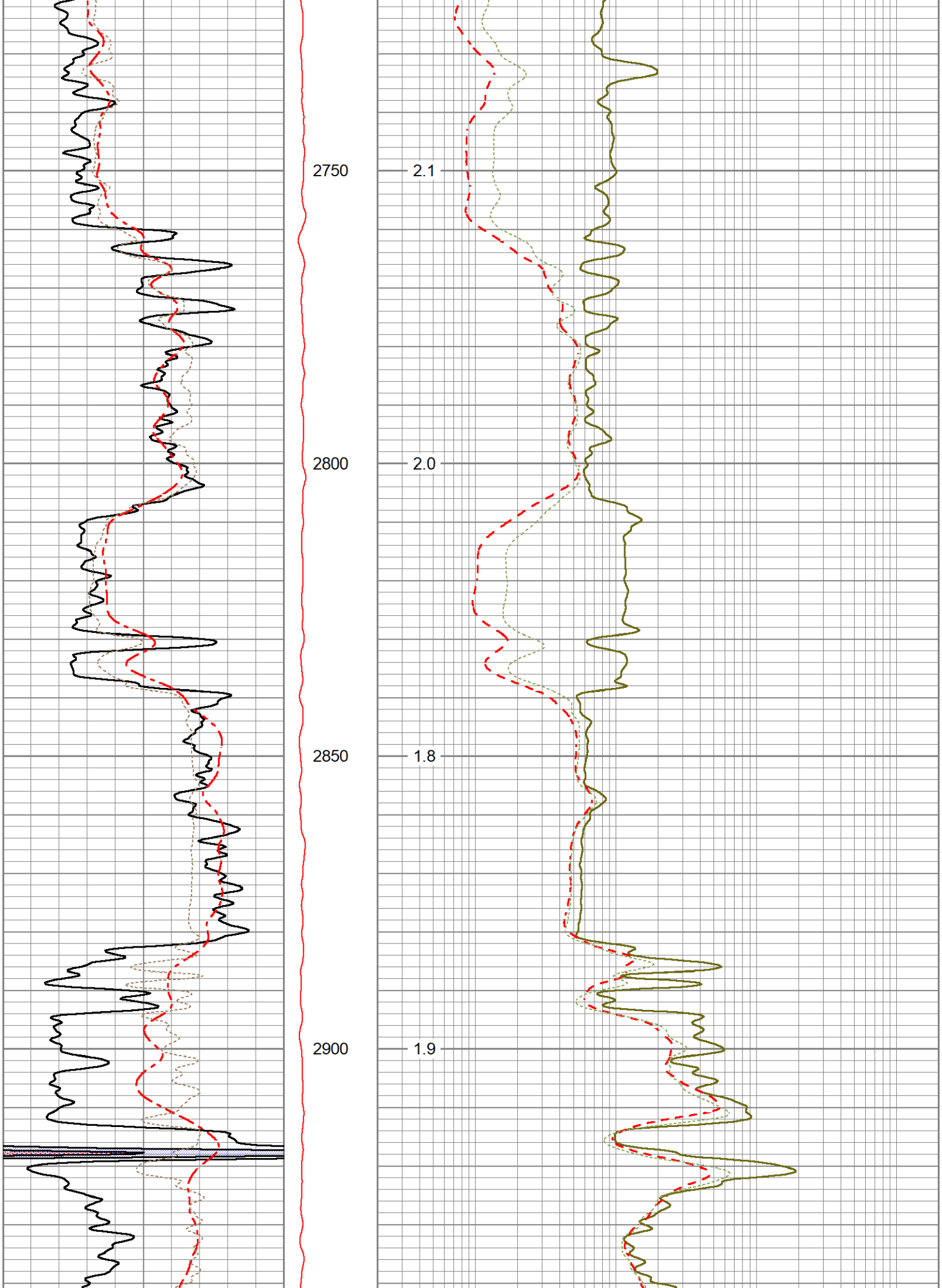

1650
1700
1750
1800
2.4
2.2
2.2
2.0

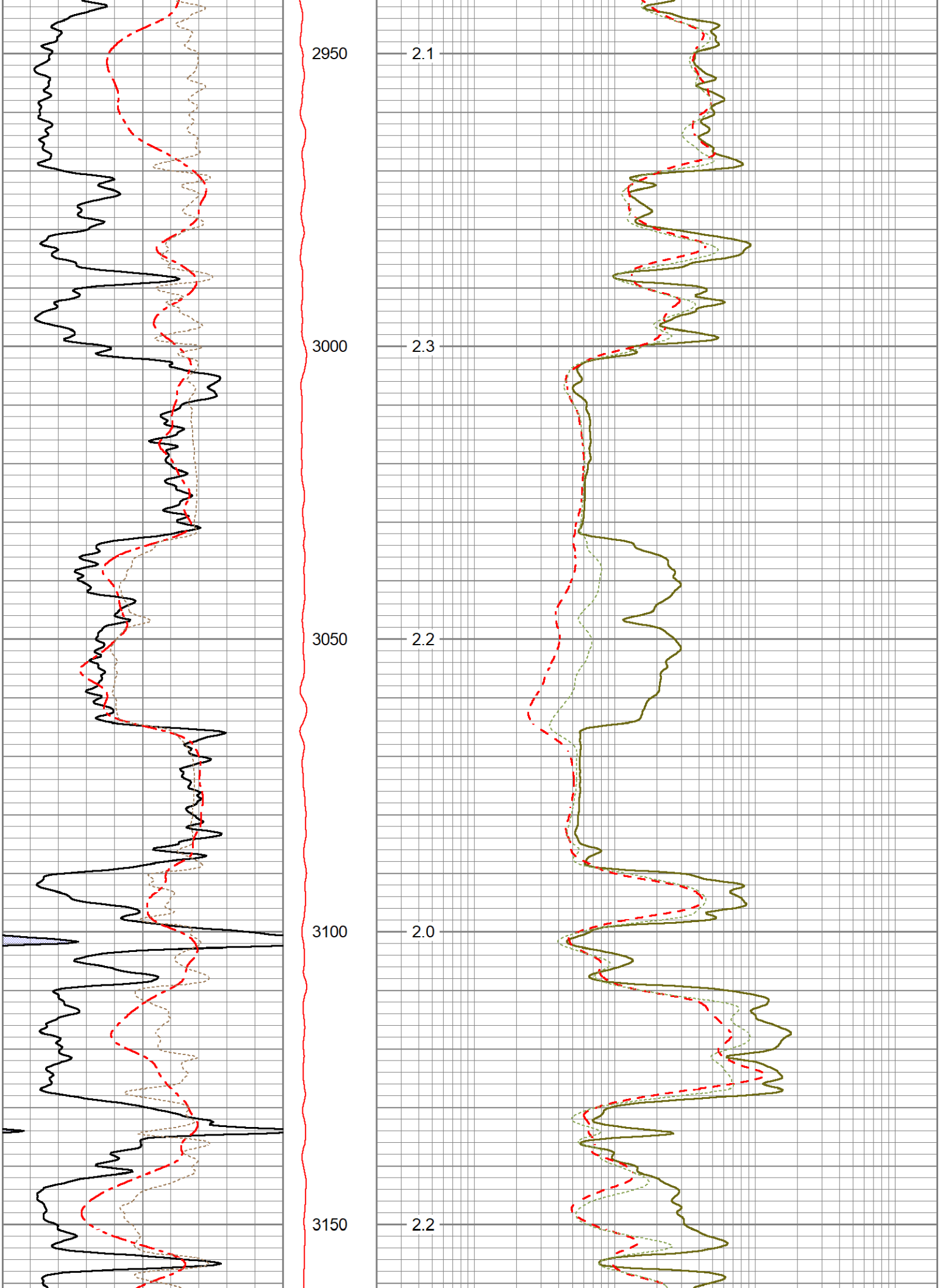

1850
2.1
1900
2.1
1950
1.9
2000
2.0
2050
1.8

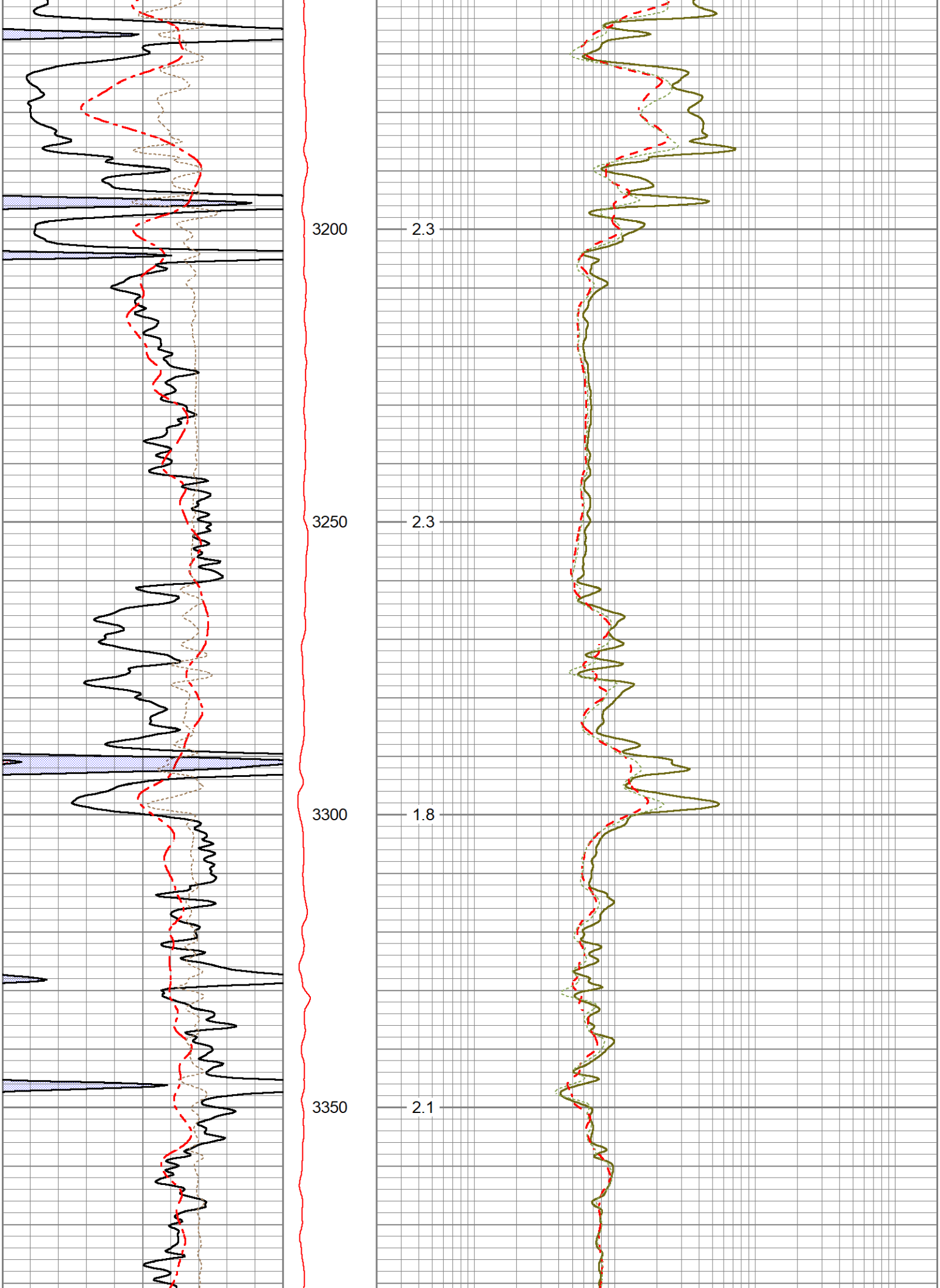

2100
1.6
2150
1.7
2200
2.3
2250
2.0

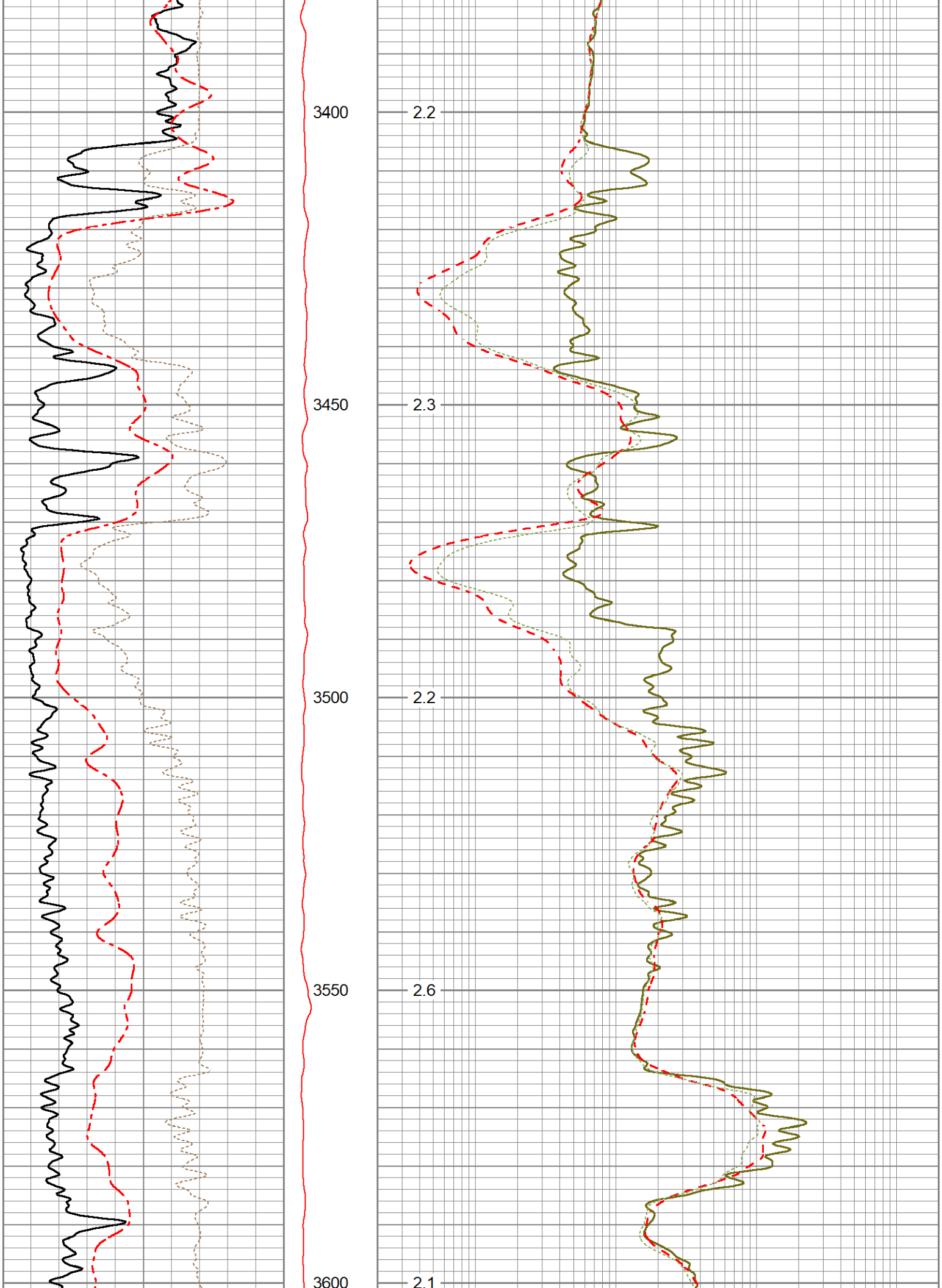

2300
2350
2400
2450
2500
1.9
1.7
1.9
2.1
2.3

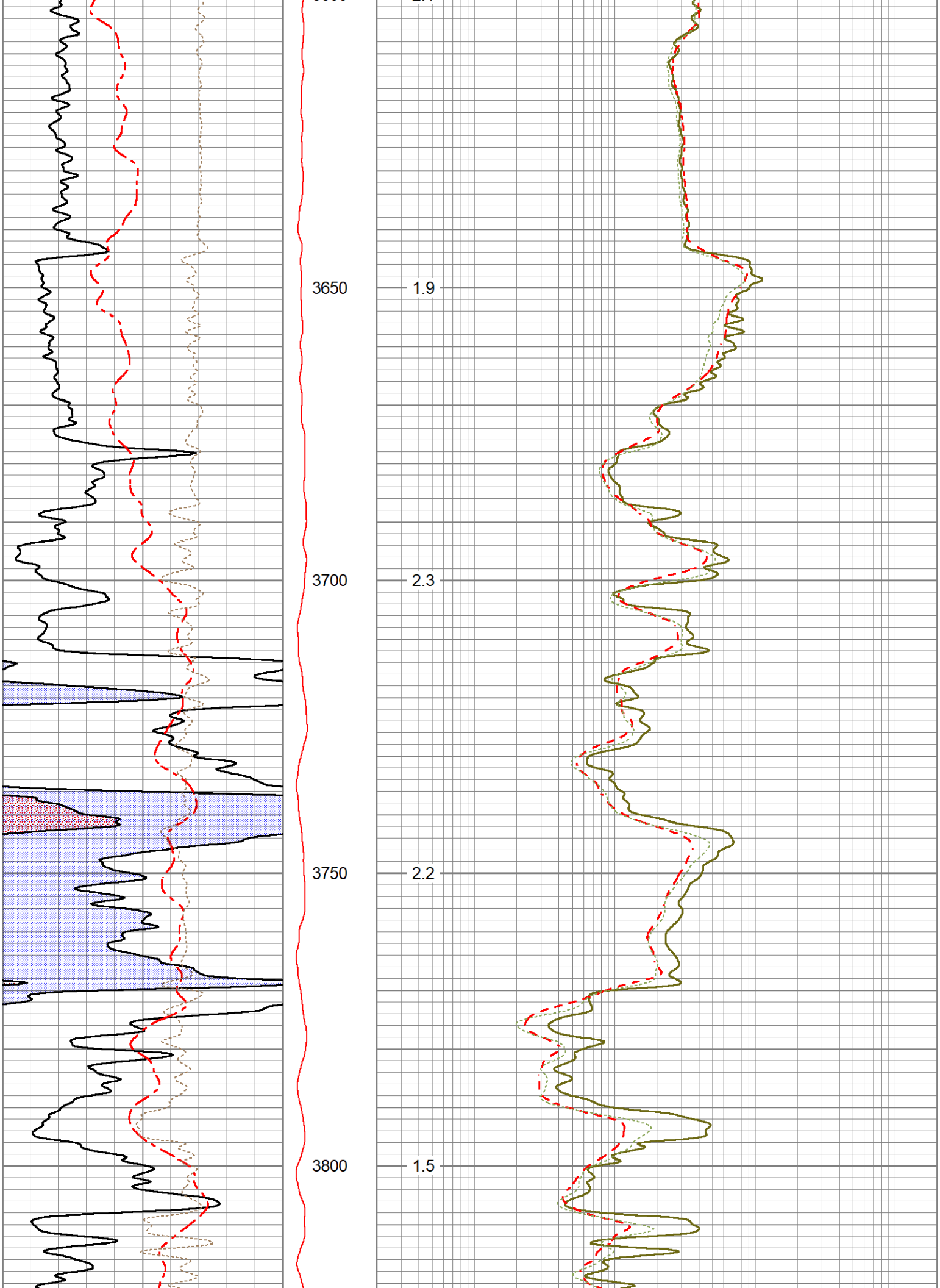

2550
2.0
2600
2.3
2650
2.1
2700
1.8

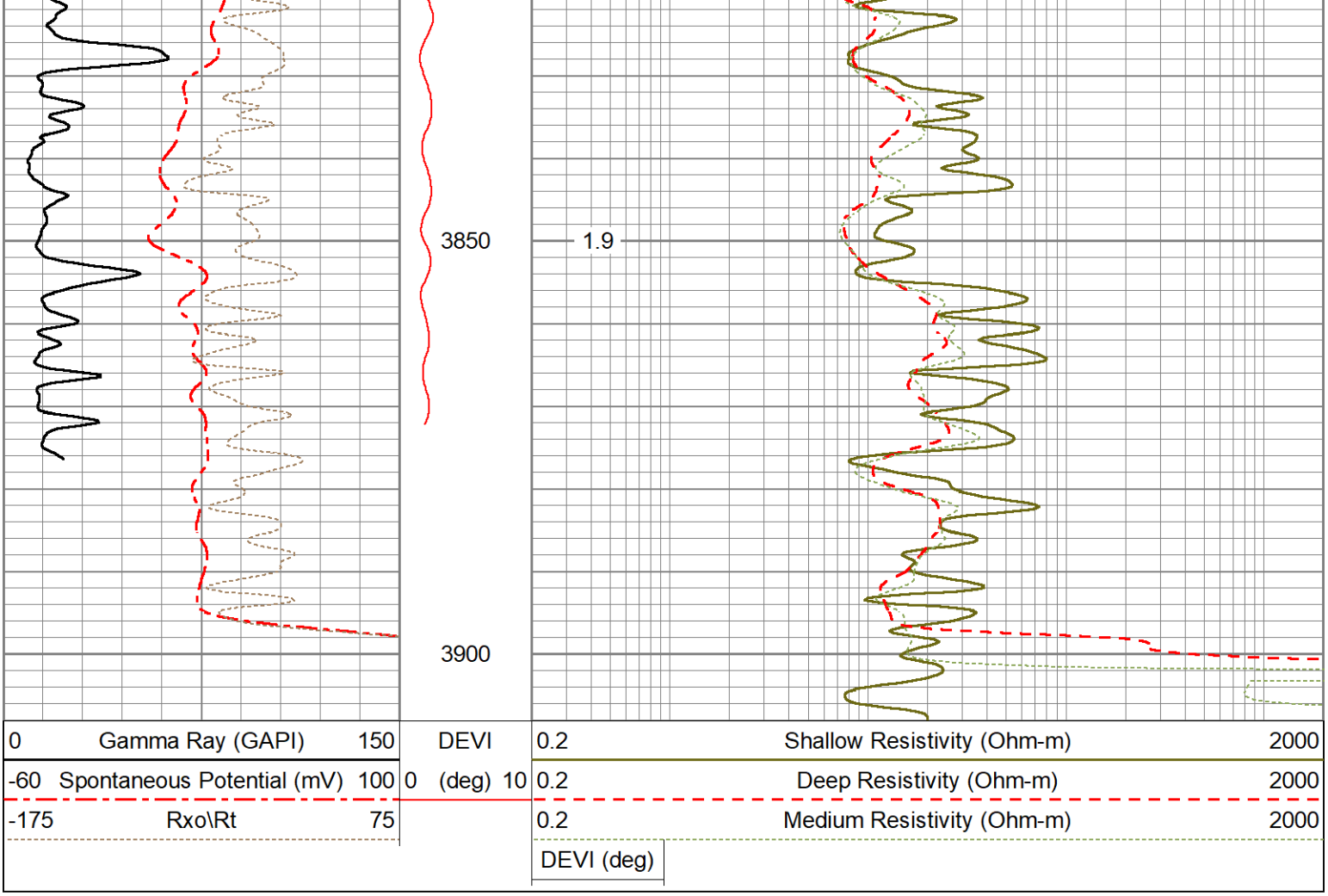

2750
2800
2850
2900
2.1
2.0
1.8
1.9


2950
3000
3050
3100
3150
2.1
2.3
2.2
2.0
2.2


3200
2.3
3250
2.3
3300
1.8
3350
2.1


3400
3450
3500
3550
3600
2.2
2.3
2.2
2.6
2.1


3650
3700
3750
3800
1.9
2.3
2.2
1.5



Calibration Report

Database File	ow1-9109 sage.db
Dataset Pathname	pass3
Dataset Creation	Thu Sep 08 13:43:35 2022

Dual Induction Calibration Report

Serial-Model:	RedTool-G
Surface Cal Performed:	Thu Aug 11 08:29:28 2022
Downhole Cal Performed:	Tue Nov 17 10:50:14 2020
After Survey Verification Performed:	Tue Nov 17 10:50:14 2020

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.007	0.642	V	-1.000	380.000	mmho/m	600.123	-5.154
Medium	0.010	0.728	V	0.000	450.000	mmho/m	626.098	-6.065
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.642	V	0.000	350.000	mmho/m	550.717	-3.768
Medium	0.010	0.729	V	0.000	550.000	mmho/m	764.510	-7.354

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-2.869	354.028	mmho/m	-0.044	350.323	mmho/m	0.982	2.773
Medium	-3.741	414.629	mmho/m	-0.037	400.340	mmho/m	0.957	3.543
LL3		9.500	V		2000.000	Ohm-m		

	0.000	V	20.000	Ohm-m
	-9.500	V	5000.000	mmho-m

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-2.869	354.028	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-3.741	414.629	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		2.000	Ohm-m		
		0.000	Ohm-m		500.000	Ohm-m		
		0.000	mmho-m		1.000	mmho-m		

Microlog Calibration Report

Serial-Model: 01-Osage
Performed: Fri Jul 15 21:59:17 2022

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m	b
Normal	-0.0028	0.0886	V	0.0000	10.0000	Ohm-m	109.3340	0.3084
Inverse	-0.0056	0.1131	V	0.0000	10.0000	Ohm-m	84.1931	0.4749
Caliper	0.3482	9.1366	V	5.8000	20.5000	in	1.6727	5.2176

Inclinometer Calibration Report

Performed: Thu Oct 8 13:57:38 2020

	Low Read.	High Read.	Low Ref.	High Ref.	
X Accelerometer	205.00	1843.00	-1.00	1.00	gee
Y Accelerometer	205.00	1843.00	-1.00	1.00	gee
Z Accelerometer					gee

Gamma Ray Calibration Report

Serial Number: Refurb01
Tool Model: OSAGE_01
Performed: Mon Jan 18 09:02:16 2021

Calibrator Value: 150.0 GAPI

Background Reading: 125.0 cps
Calibrator Reading: 875.0 cps

Sensitivity: 0.2000 GAPI/cps

Sensor	Offset (ft)	Schematic	Description	Length (ft)	O.D. (in)	Weight (lb
ACCY	31.04		ADMYR_TELEMETRY-OSAGE_01 (Refurb01) Admyr Telemetry With Gr, Deviation, ADC board and Pulses Board in it.	3.69	3.25	53.00
ACCX	31.04					
GR	29.86					
FRAMES	28.54					
SSTAT	28.54					
PSTAT	28.54		MICRO_DIG-Osage (01) Digital Microlog	7.21	5.13	137.00
ASTAT	28.54					

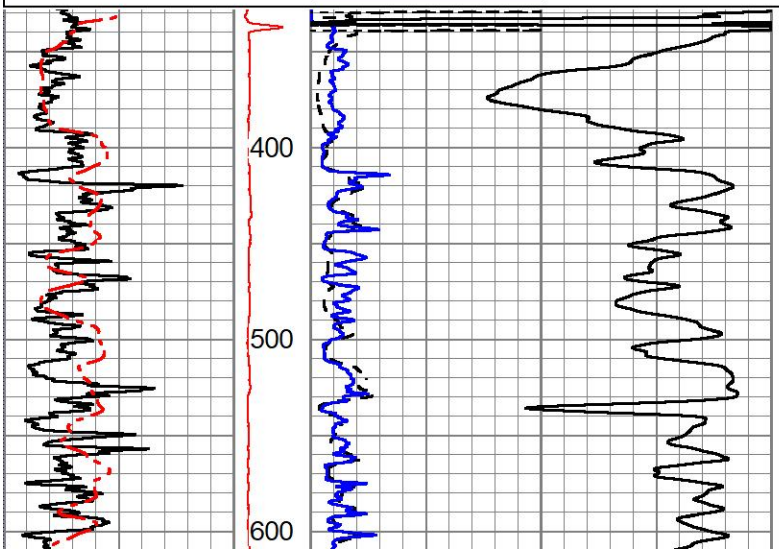
MI	23.00				
MN	23.00				
MCAL	22.00				
ASTAT2	21.33				
SP	10.92	DIL-G (RedTool) Gearhart	21.33	4.00	290.00
CILD	10.92				
CILM	7.00				
RLL3	1.65				
TR_Mon	0.00				

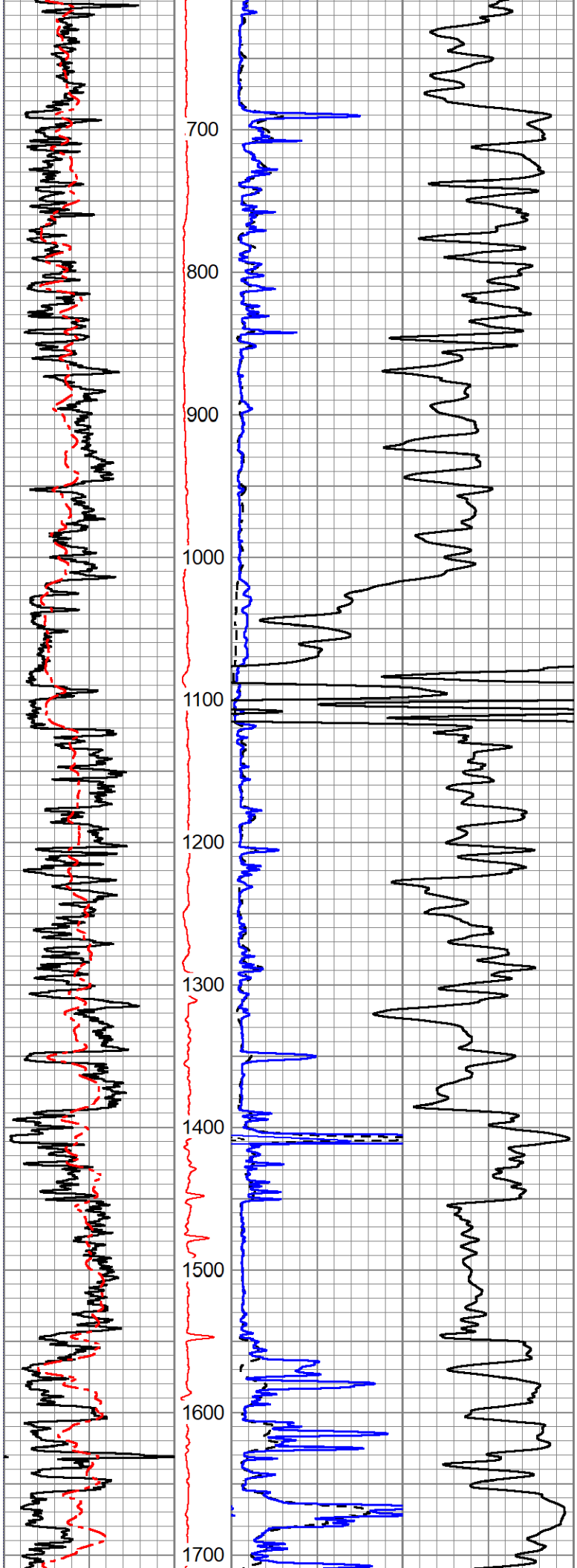
Dataset:	ow1-9109 sage.db: field/well/run1/pass3
Total length:	32.23 ft
Total weight:	480.00 lb
O.D.:	5.13 in

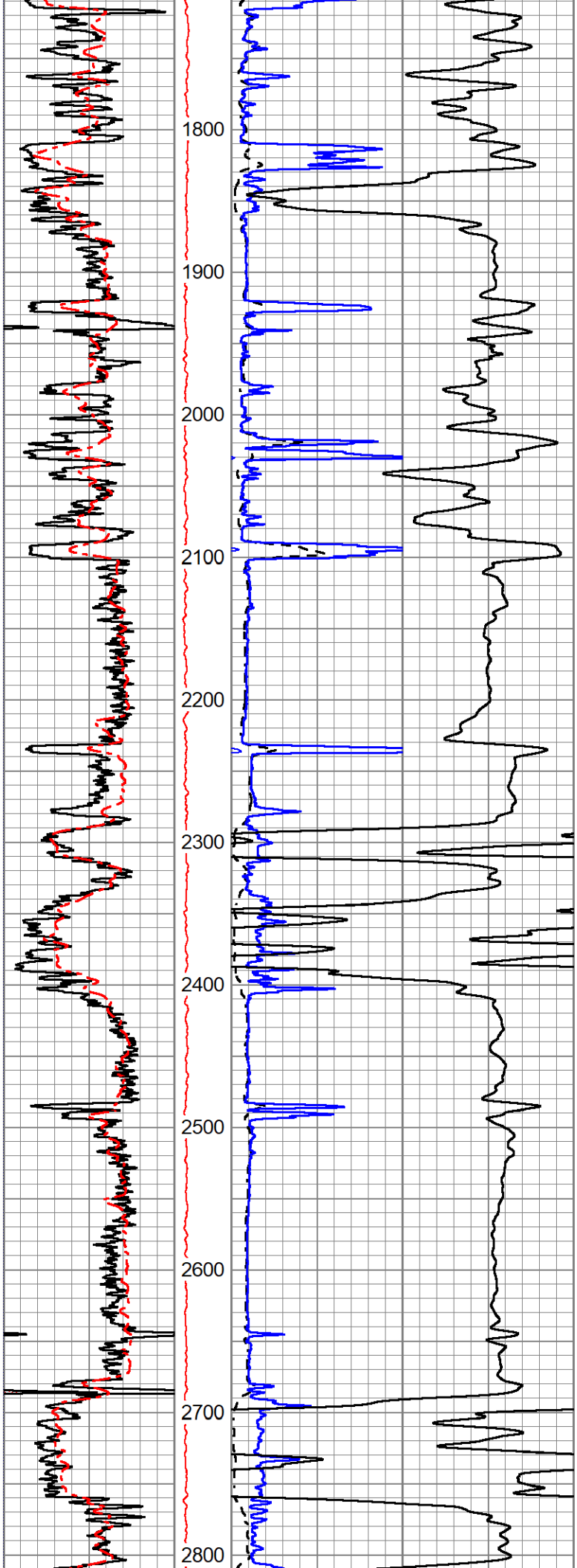
1" INDUCTION LOG

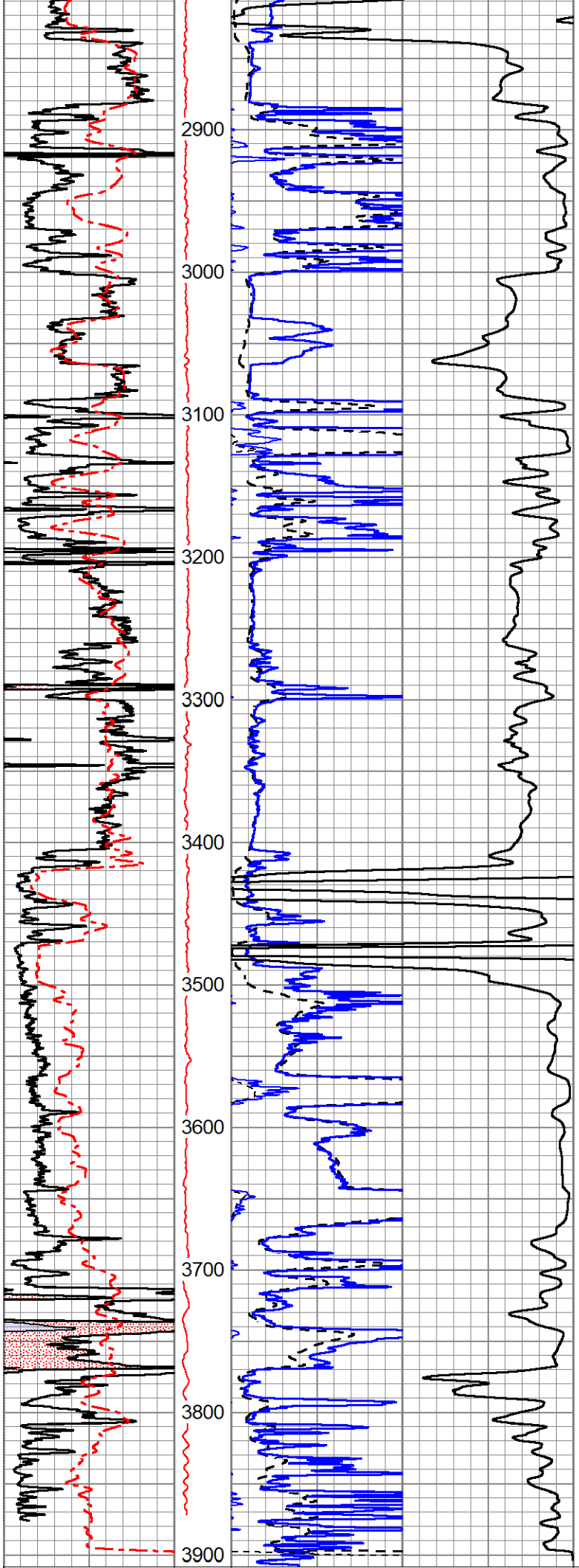
Database File	ow1-9109 sage.db
Dataset Pathname	pass3.2
Presentation Format	mmdil1
Dataset Creation	Thu Sep 08 14:42:24 2022
Charted by	Depth in Feet scaled 1:1200

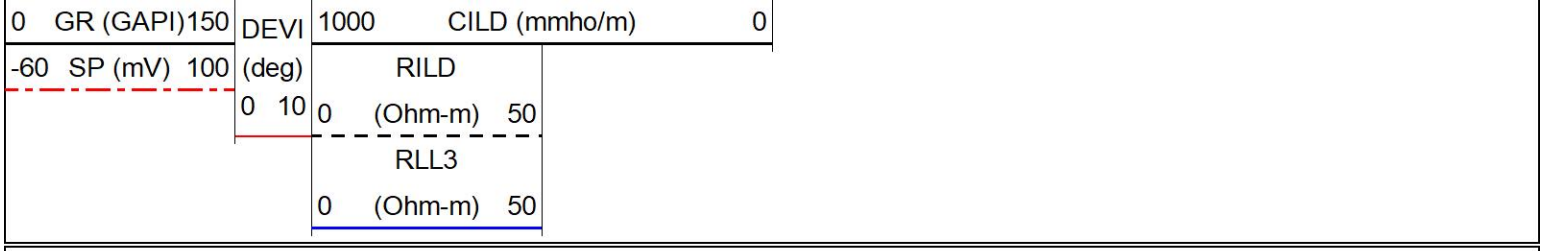
0 GR (GAPI) 150	DEVI	1000 CILD (mmho/m) 0	
-60 SP (mV) 100	(deg)	RILD	
	0 10	0 (Ohm-m) 50	
		RLL3	
		0 (Ohm-m) 50	




700
800
900
1000
1100
1200
1300
1400
1500
1600
1700


1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800


2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900



1" INDUCTION LOG