



DUAL INDUCTION LL3/GR LOG

Company	W.D. SHORT OIL CO., LLC	Company	W.D. SHORT OIL CO., LLC
Well	BROWN # 15	Well	BROWN # 15
Field	ALBRIGHT	Field	ALBRIGHT
County	COWLEY	County	COWLEY
State	KANSAS	State	KANSAS
Location:	API # : 15-035-24773-00-00	Other Services	MICRO CDLN
Permanent Datum	GL	Elevation	1262
Log Measured From	KB 12	Elevation	K.B. 1274 D.F. 1273 G.L. 1262
Drilling Measured From	KB		
SEC 2 TWP 34S RGE 5E			
SW NE SW SE 760' FSL & 1950' FEL			
9-30-2022	ONE		
Run Number	ONE		
Depth Driller	3435		
Depth Logger	3437		
Bottom Logged Interval	3435		
Top Log Interval	SURFACE		
Casing Driller	8.625" @ 213'		
Casing Logger	8.625" @ 225'		
Bit Size	7.875"		
Type Fluid in Hole	MUD		
Density / Viscosity	9.5 / 53		
pH / Fluid Loss	10.2 / 9.3		
Source of Sample	PIT		
Rm @ Meas. Temp	1.75 @ 70		
Rmf @ Meas. Temp	1.4 @ 70		
Rmc @ Meas. Temp	2.1 @ 70		
Source of Rmf / Rmc	CALCULATED		
Rm @ BHT	1.05 @ 110		
Time Circulation Stopped	12:00 AM		
Time Logger on Bottom	4:00 AM		
Maximum Recorded Temperature	110		
Equipment Number	OW2		
Location	HOMINY, OK		
Recorded By	SHELDON TYLER		
Witnessed By	MR. WOLFE		

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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

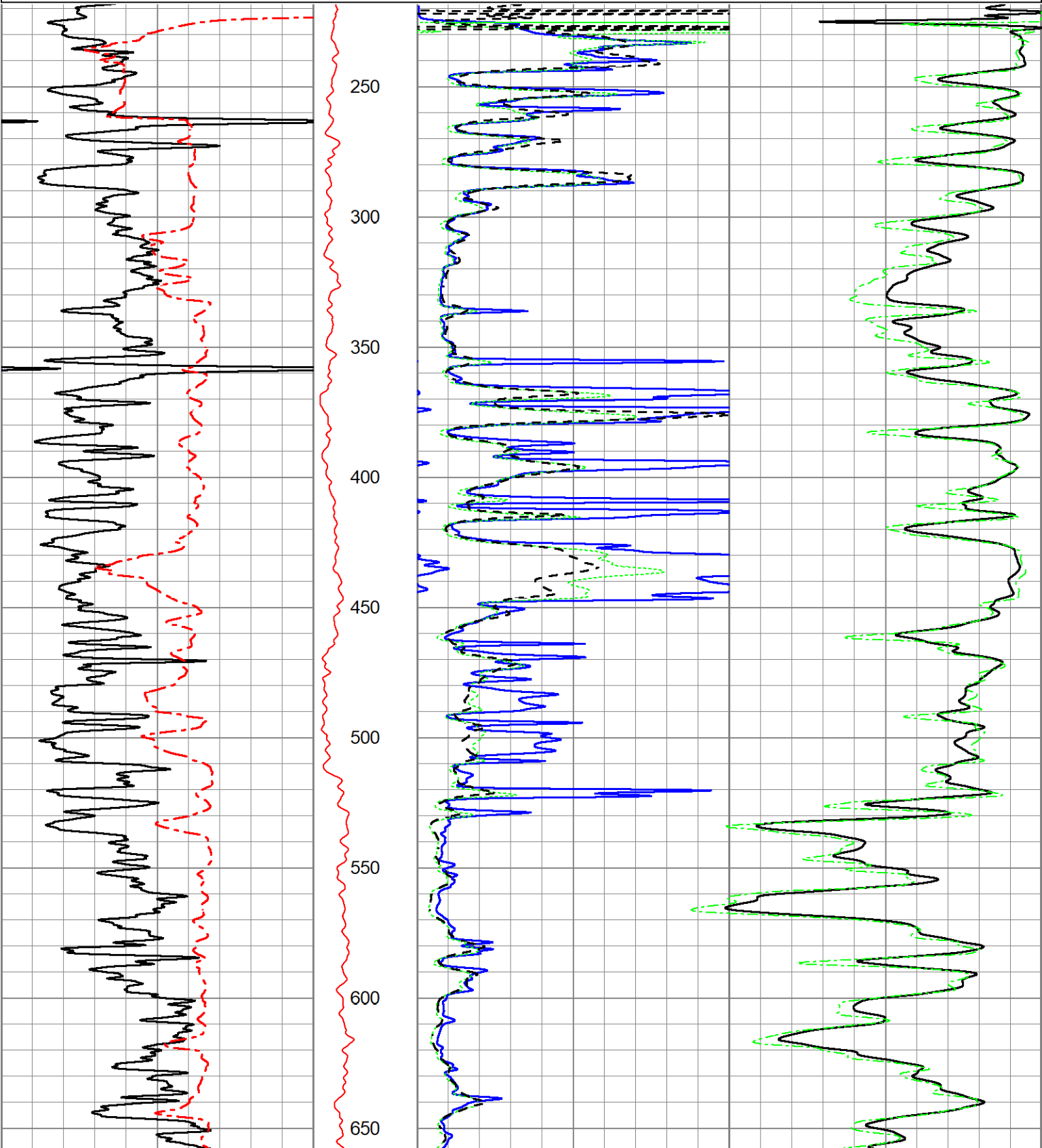
FILE # OW2-9136 W.D. SHORT OIL
KIDD, TAFT
THANK YOU FOR USING OSAGE WIRELINE

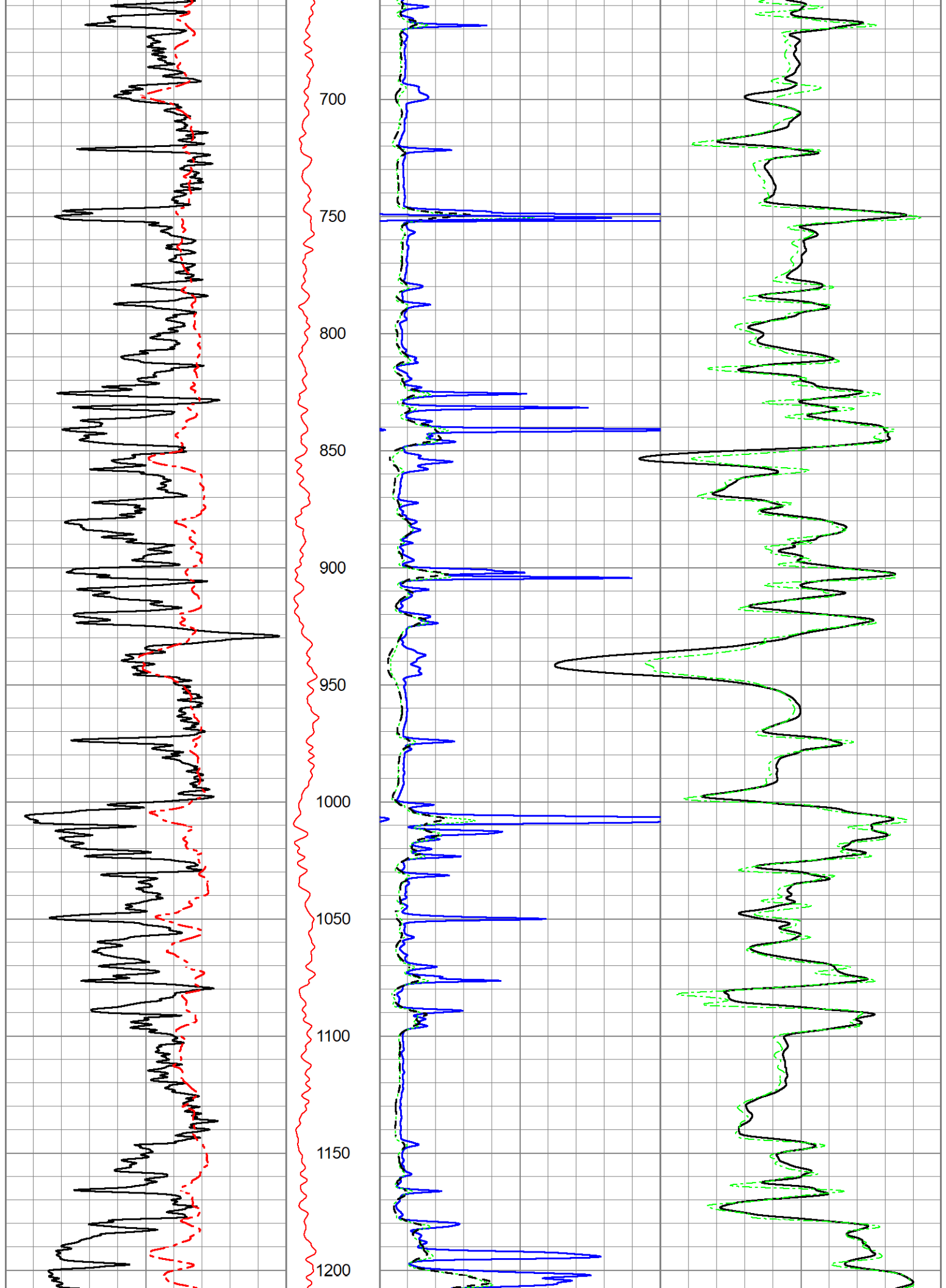


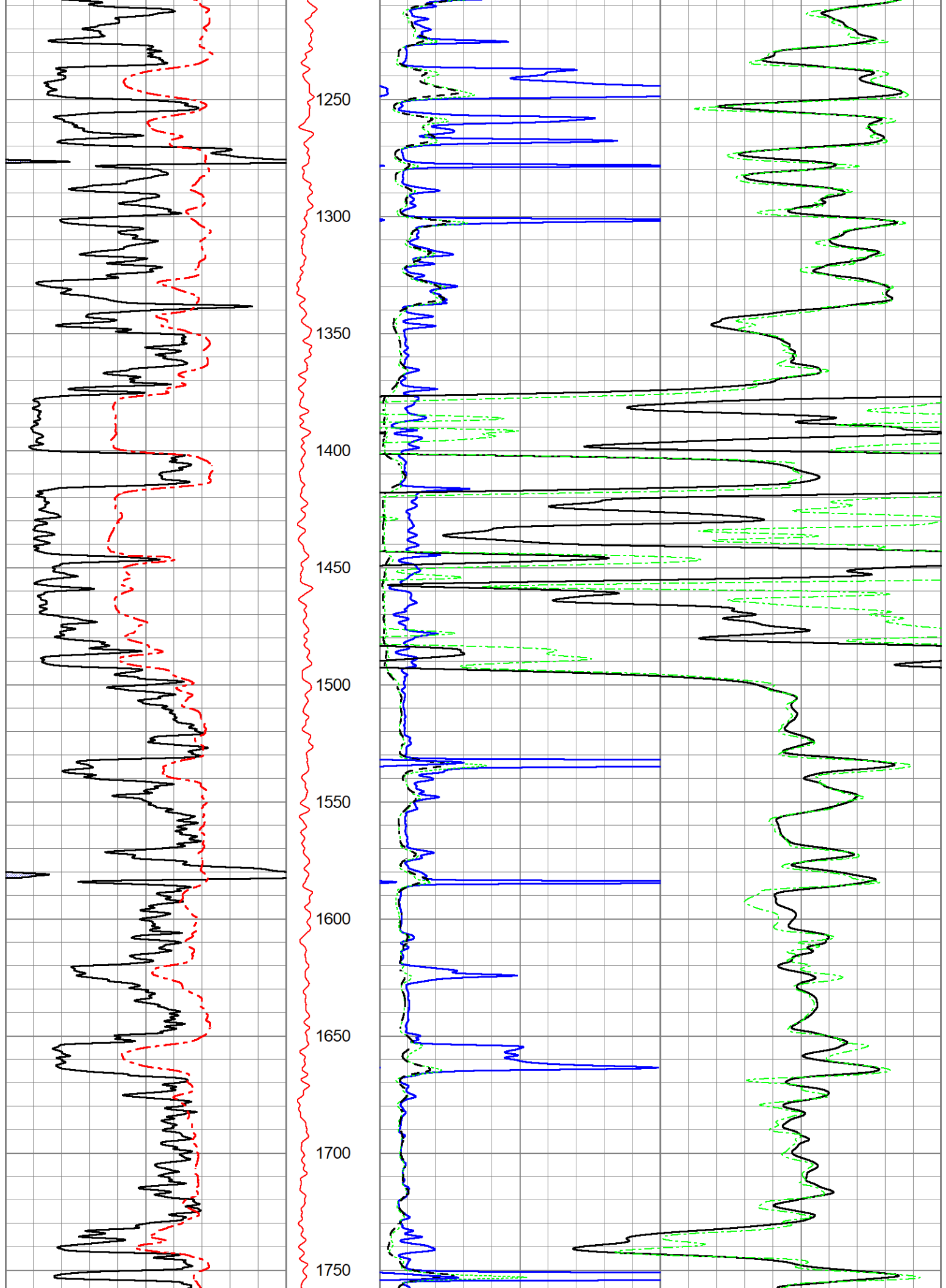
2" DUAL INDUCTION LOG

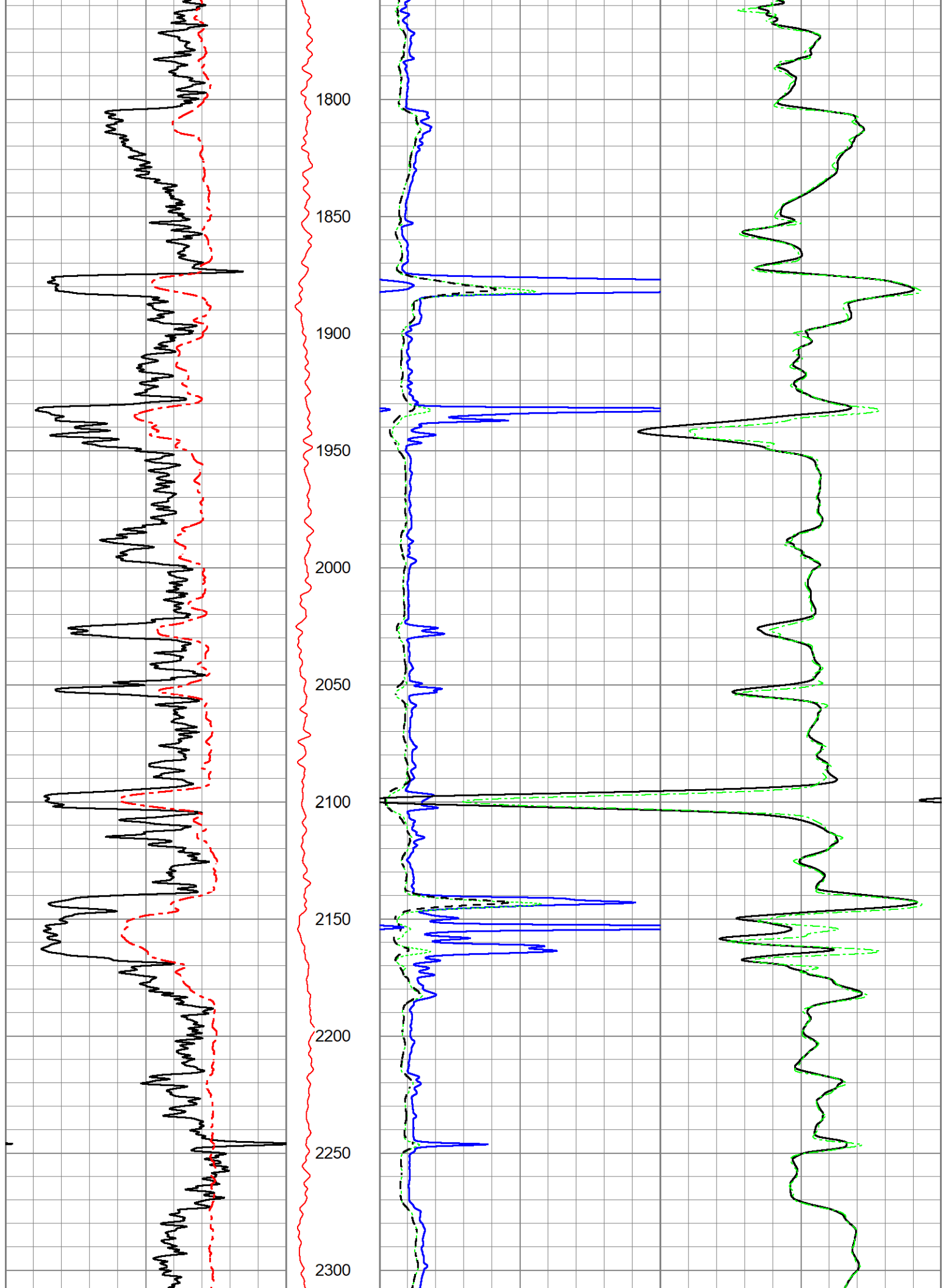
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Dataset Pathname	pass2.5
Presentation Format	mmdil2
Dataset Creation	Fri Sep 30 05:20:21 2022
Charted by	Depth in Feet scaled 1:600

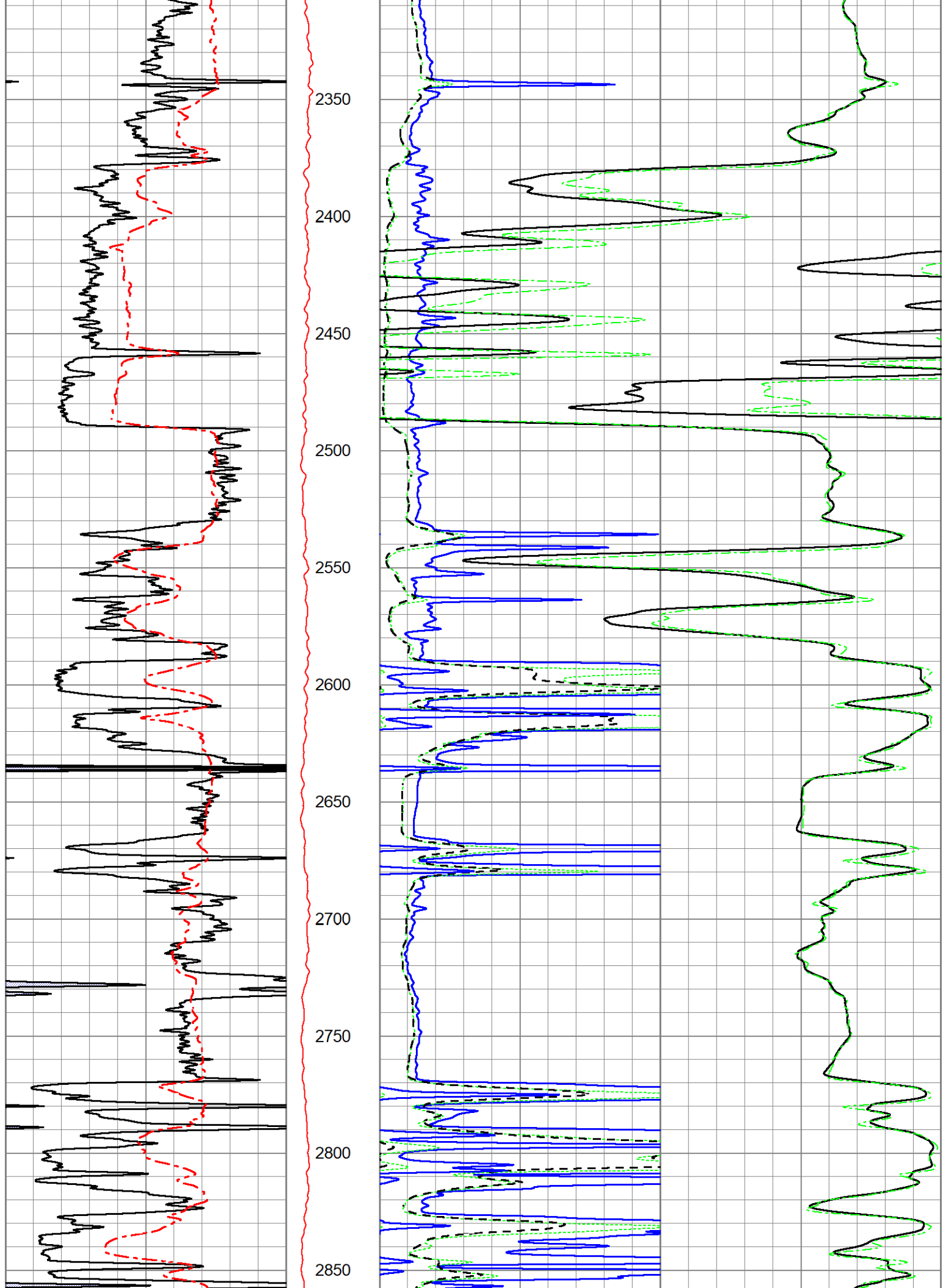
0	GR (GAPI)	150	DEVI	1000	CILD (mmho/m)	0
30	Spontaneous Potential (mV)	180	0 (deg)	10	CILM (mmho/m)	0
				0	RLL3 (Ohm-m)	50
				0	RILM (Ohm-m)	50
				0	RILD (Ohm-m)	50

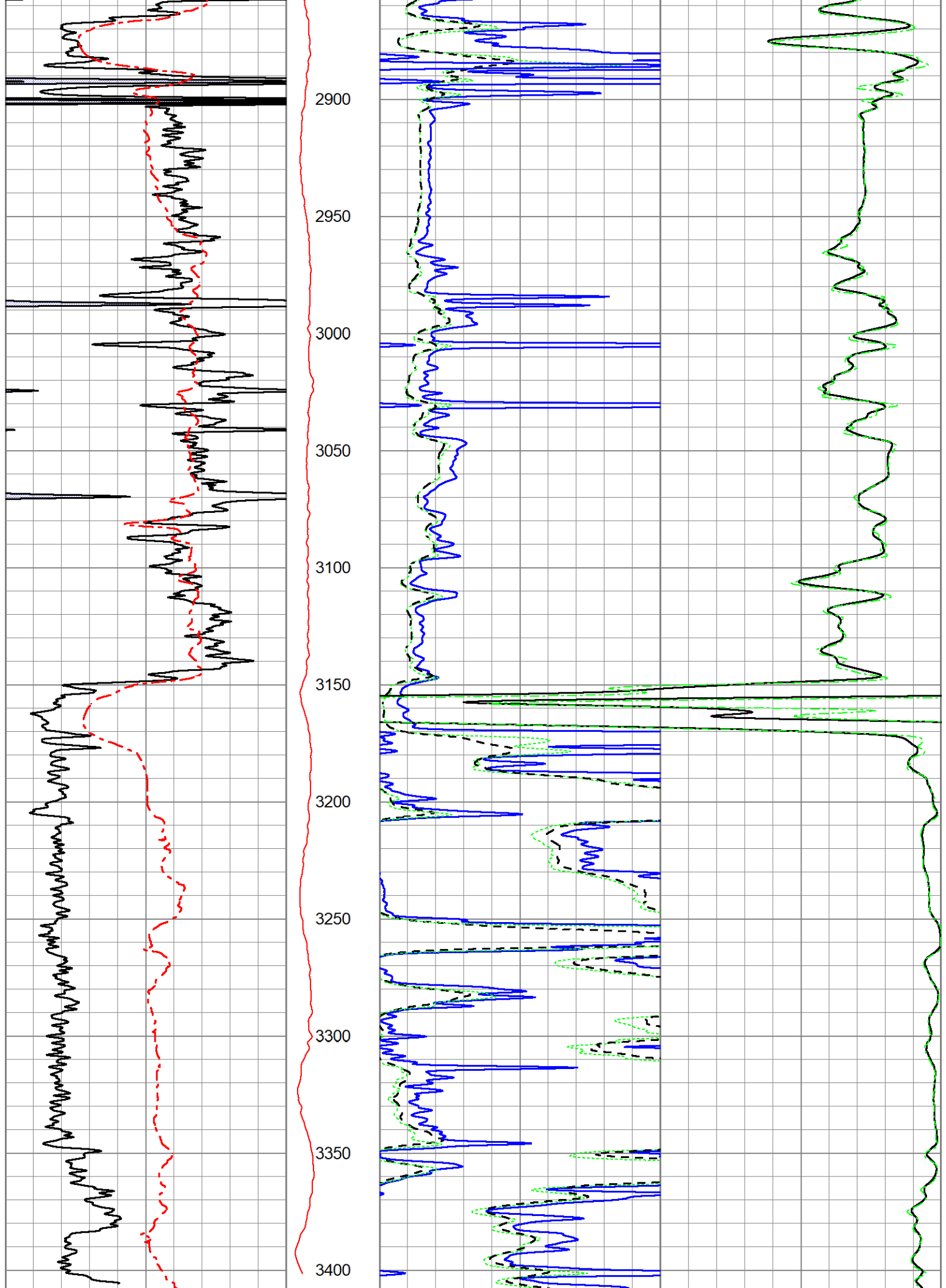


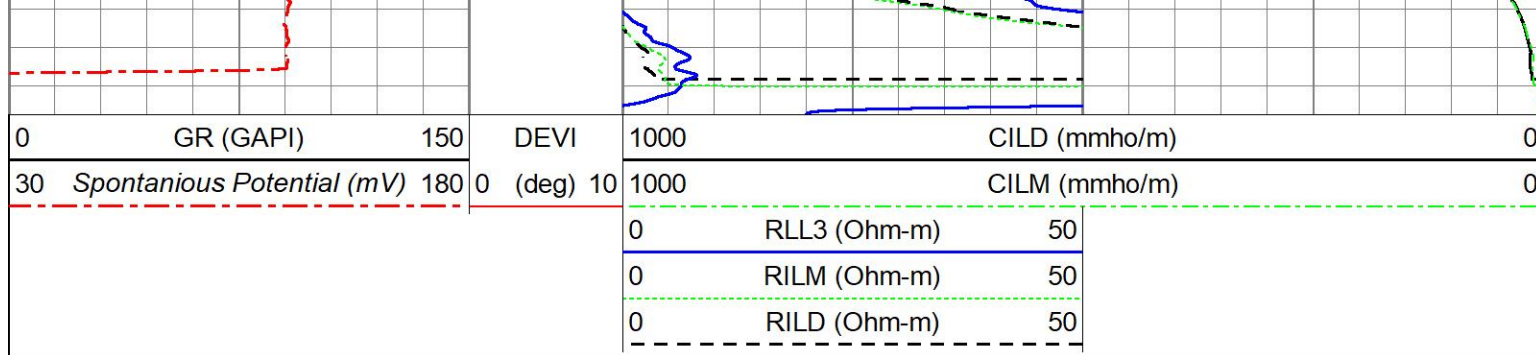








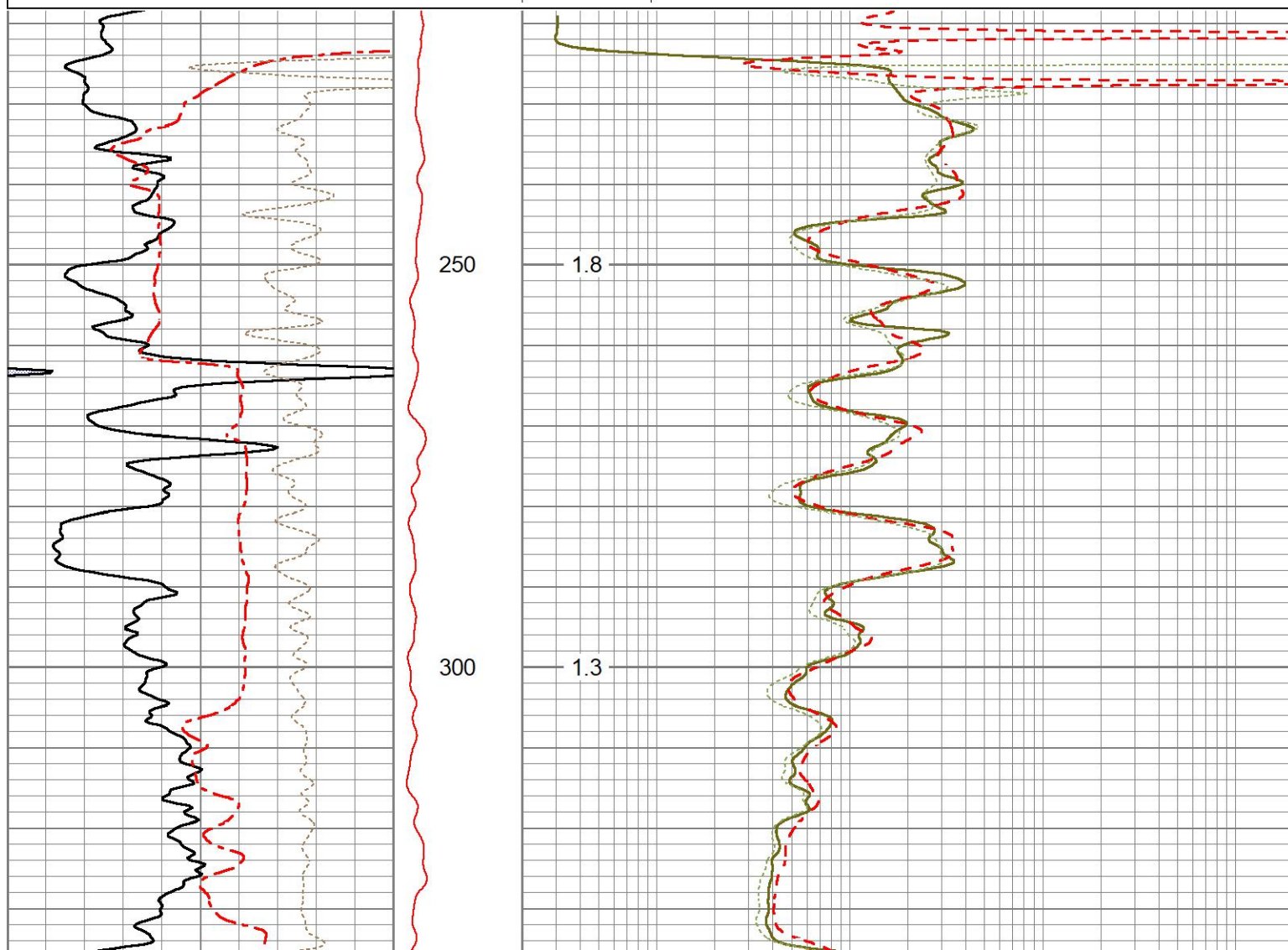


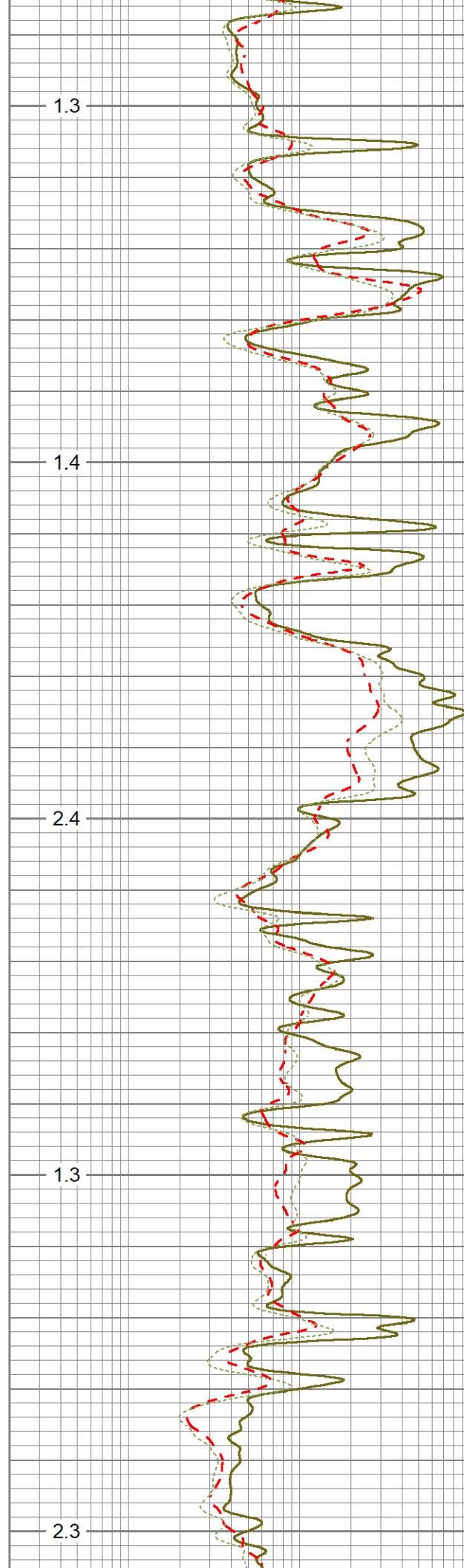
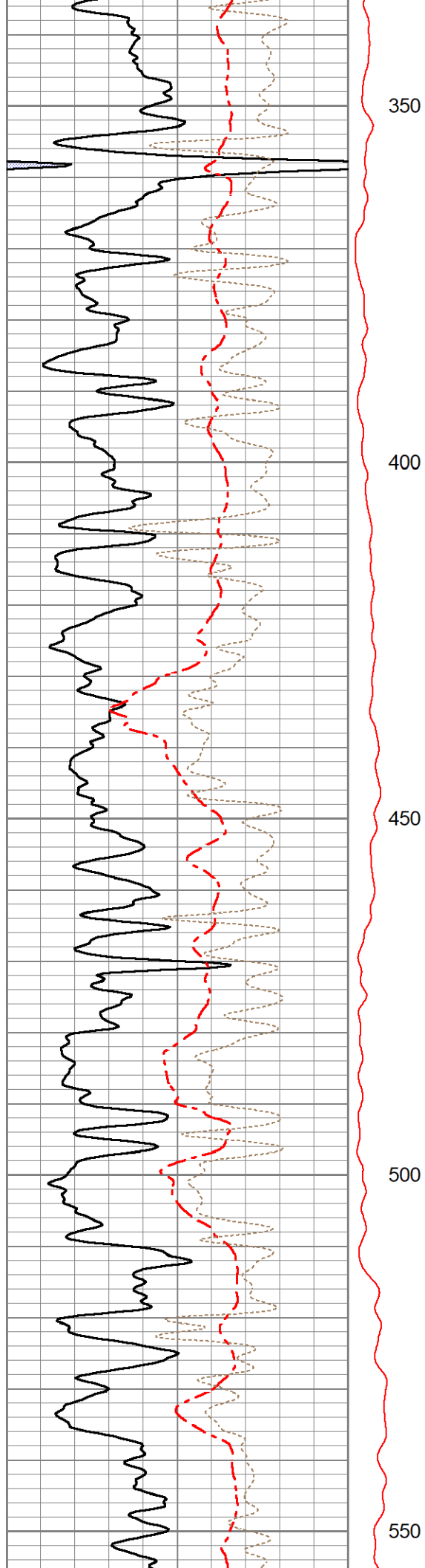


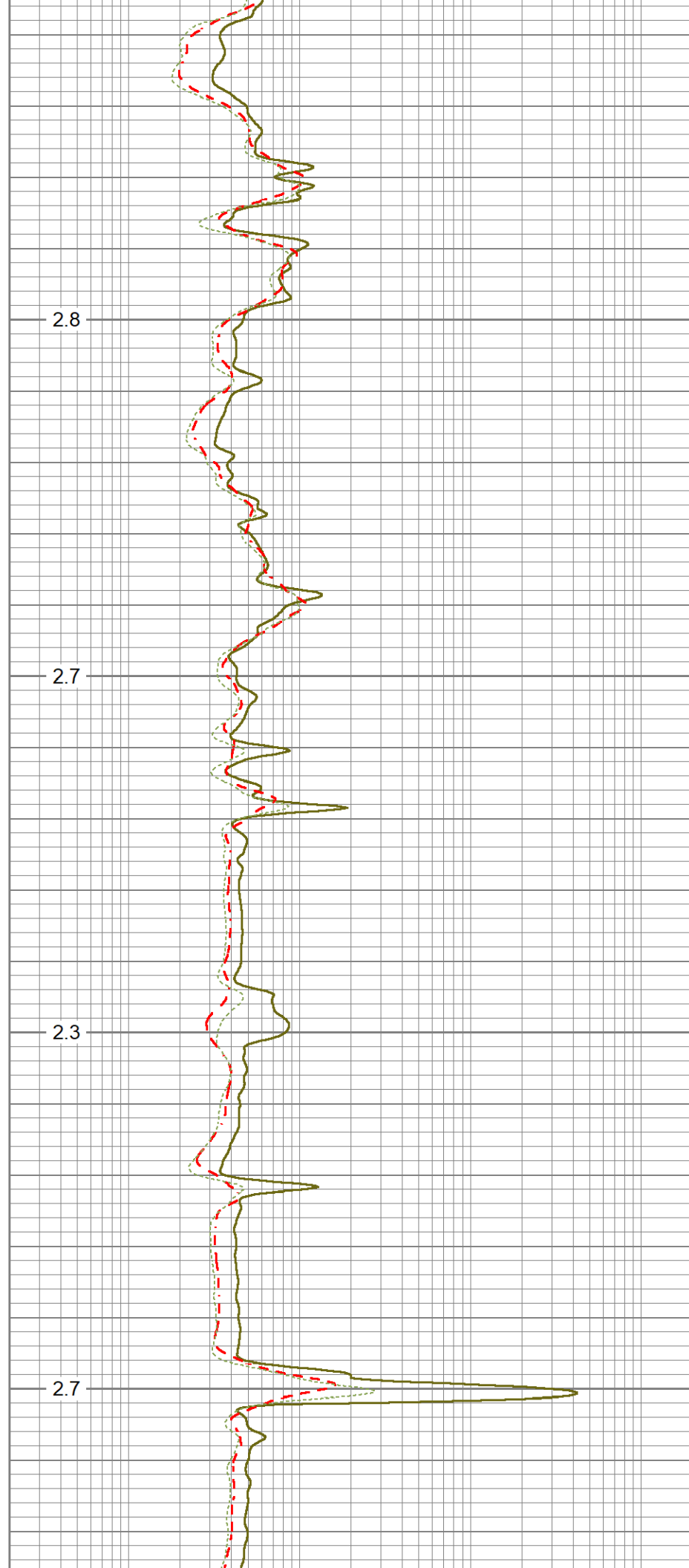
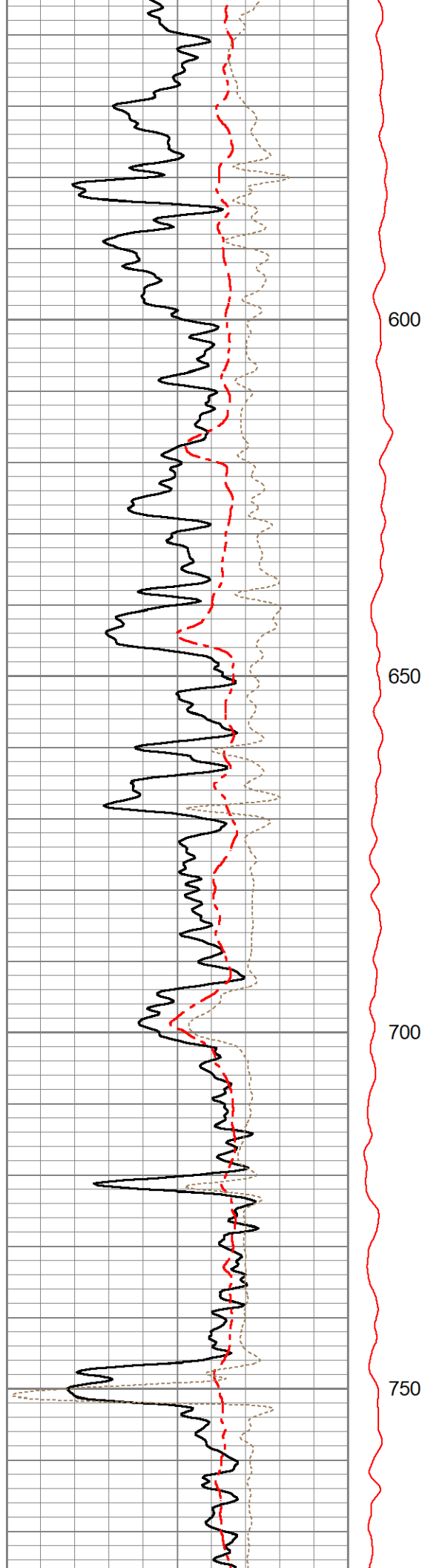
5" DUAL INDUCTION LOG

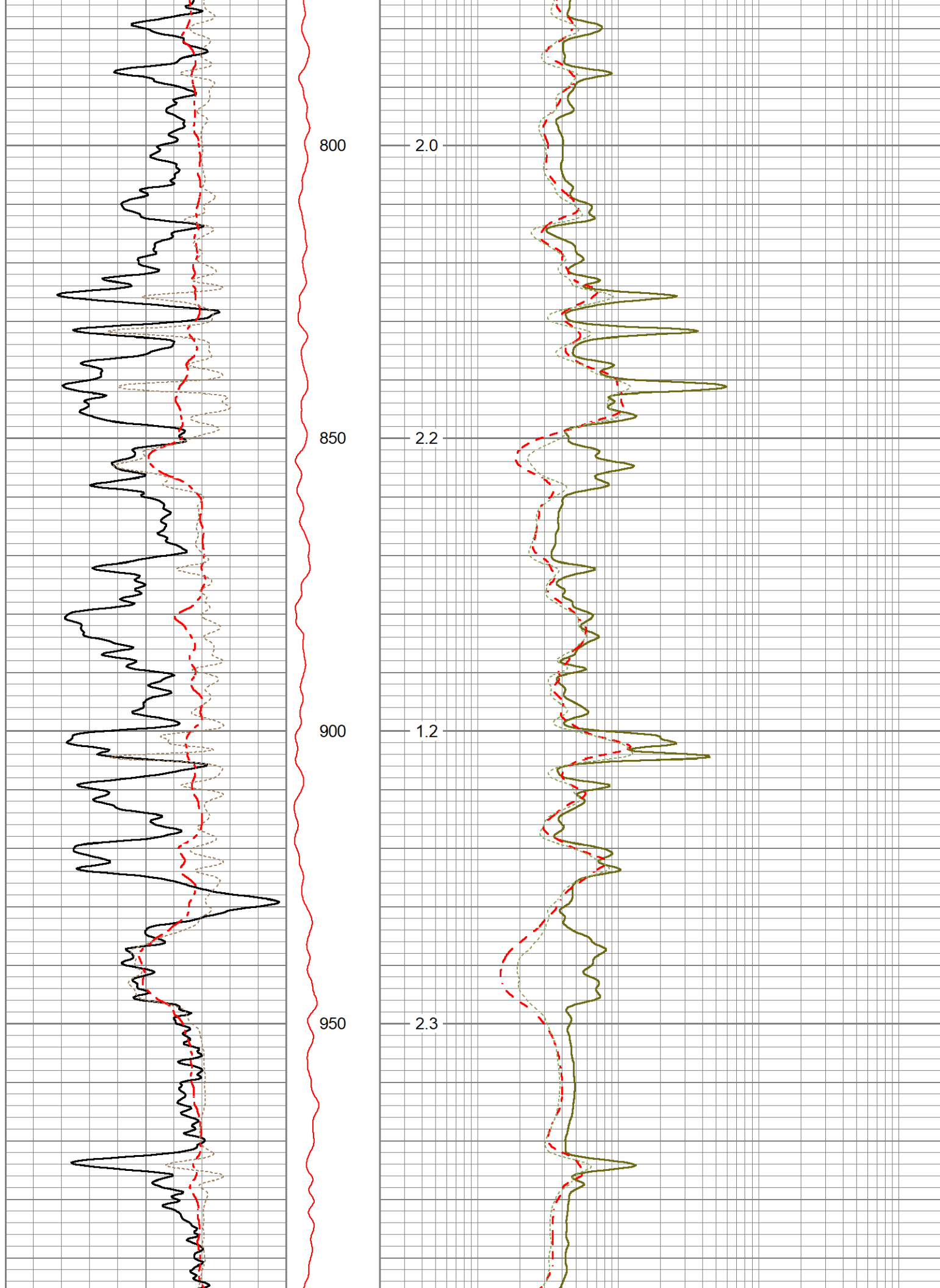
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 Dataset Pathname pass2.6
 Presentation Format mmdil5
 Dataset Creation Fri Sep 30 05:20:42 2022
 Charted by Depth in Feet scaled 1:240

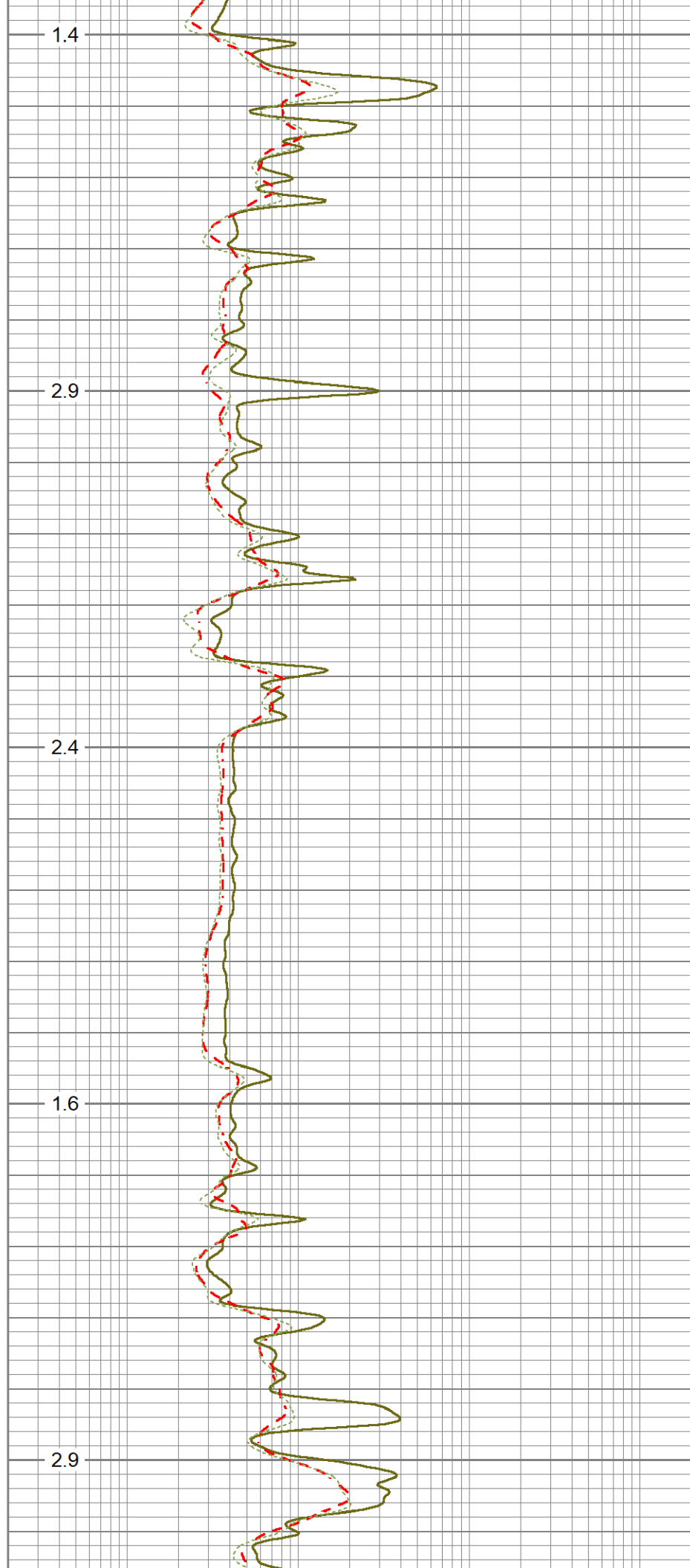
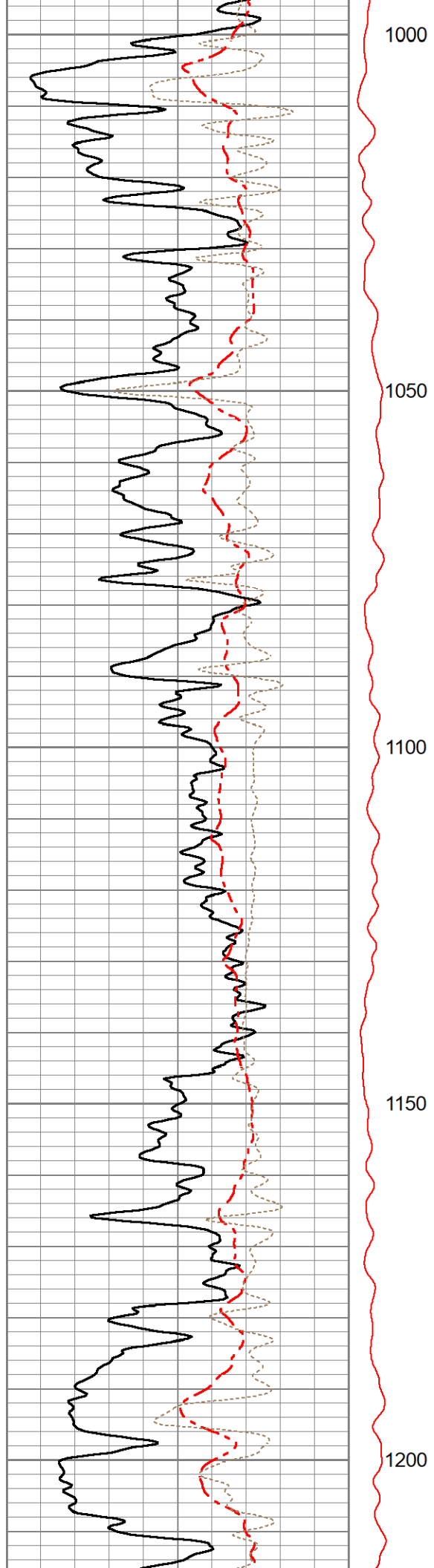
0	Gamma Ray (GAPI)	150	DEVI	0.2	Shallow Resistivity (Ohm-m)	2000
30	Spontaneous Potential (mV)	180	0 (deg)	10	Deep Resistivity (Ohm-m)	2000
-150	Rxo\Rt	50			Medium Resistivity (Ohm-m)	2000
				DEVI (deg)		

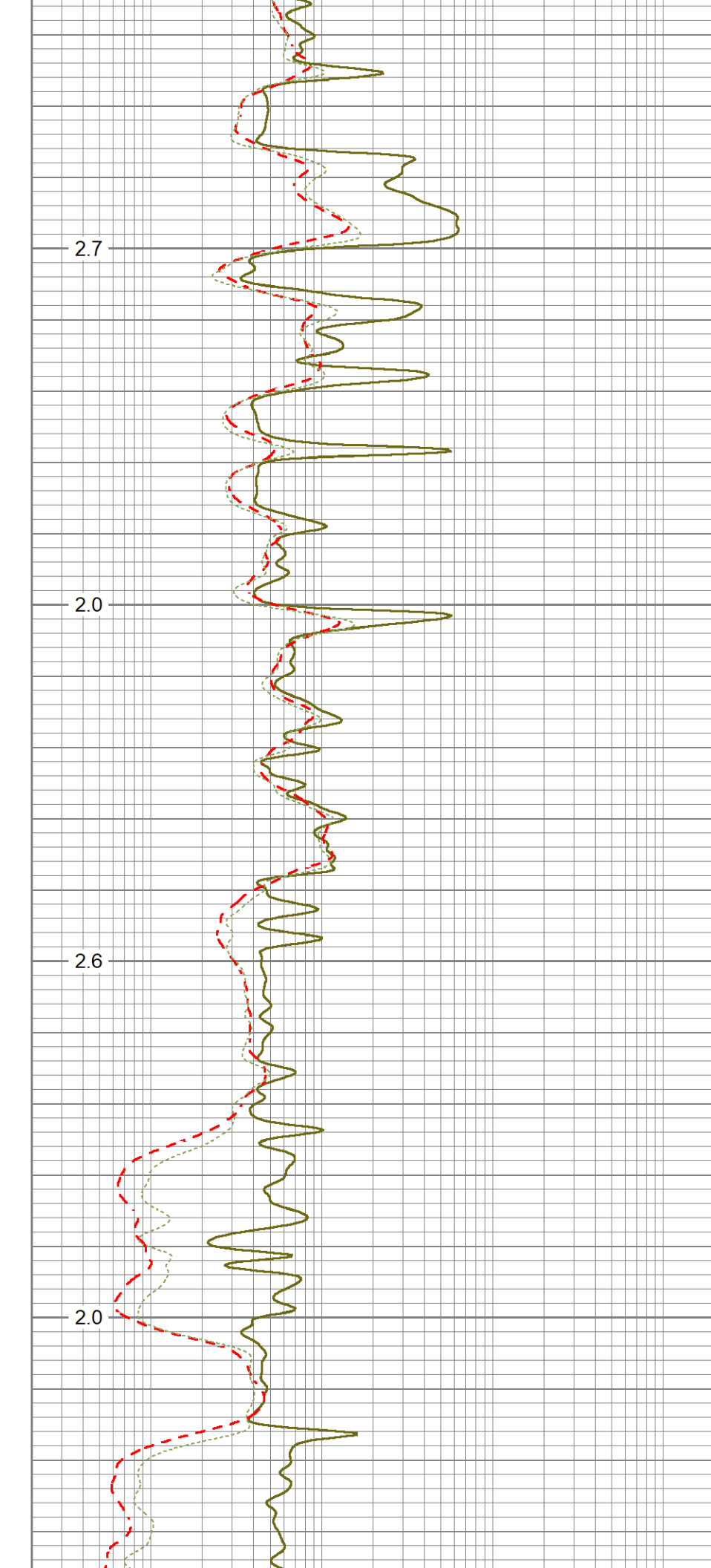
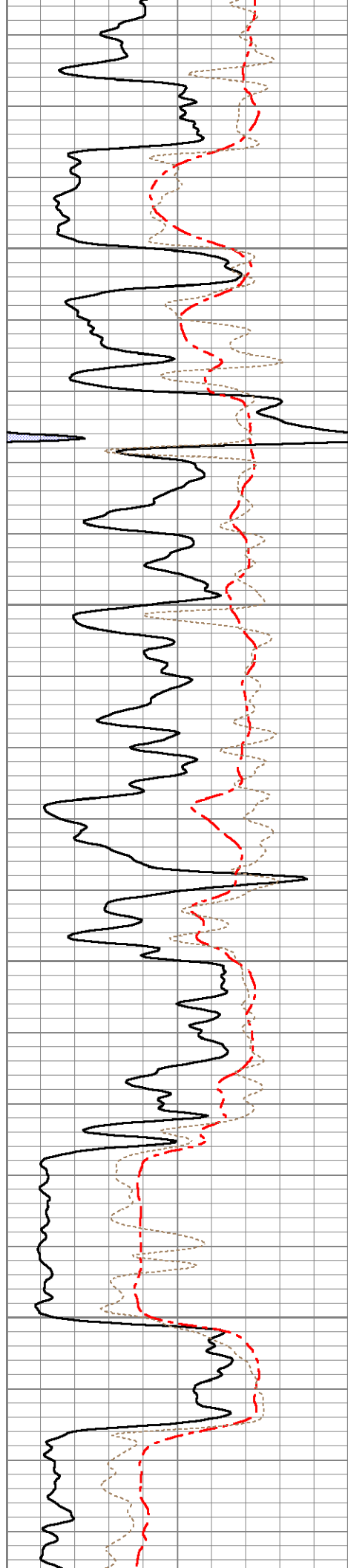


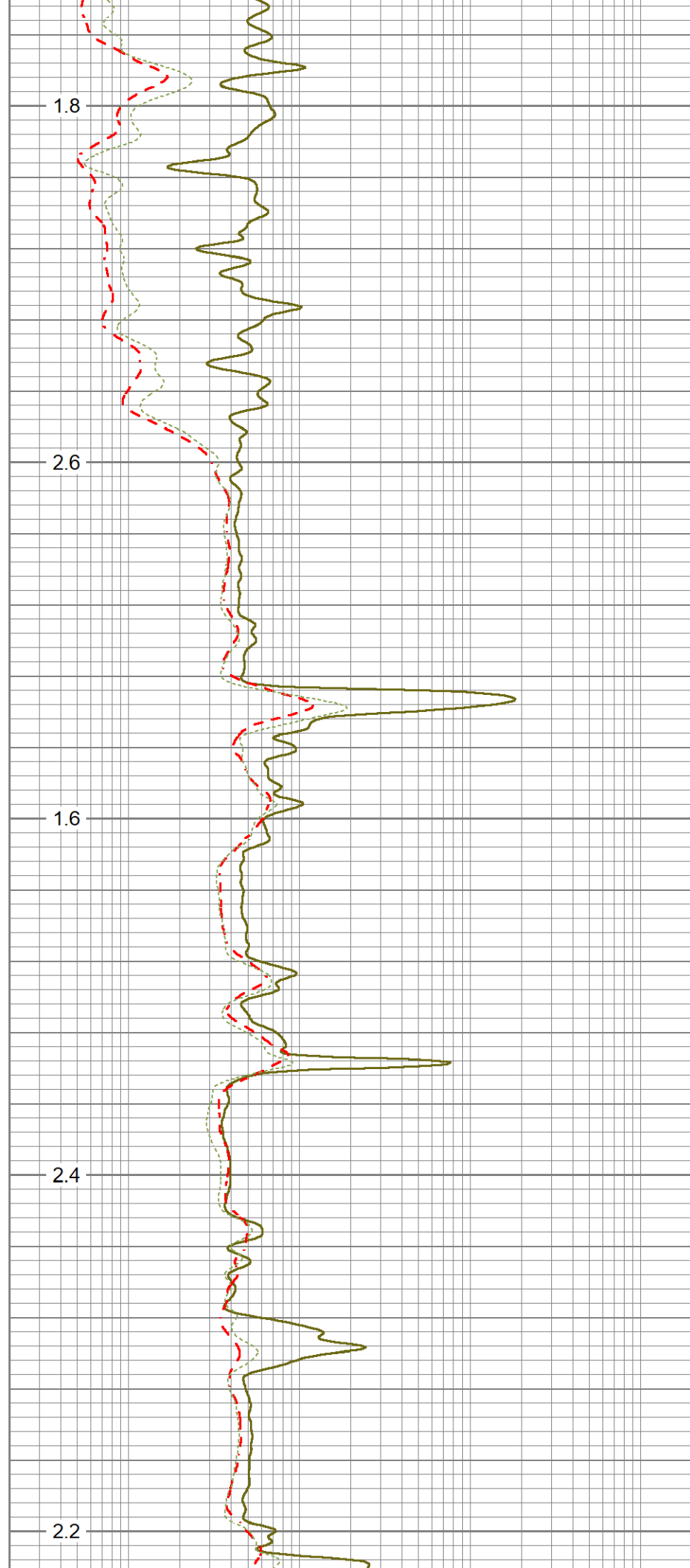
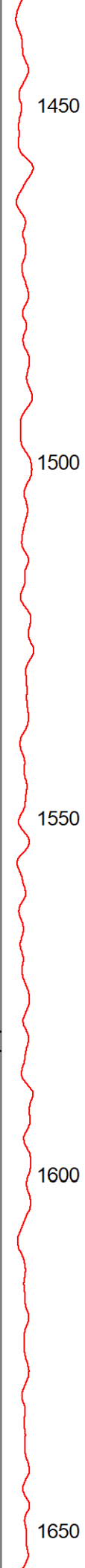
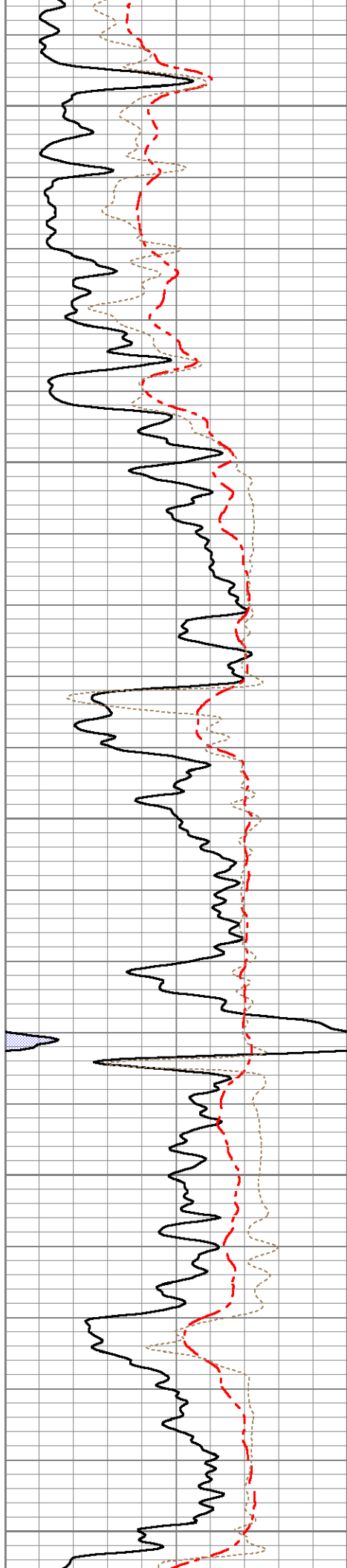


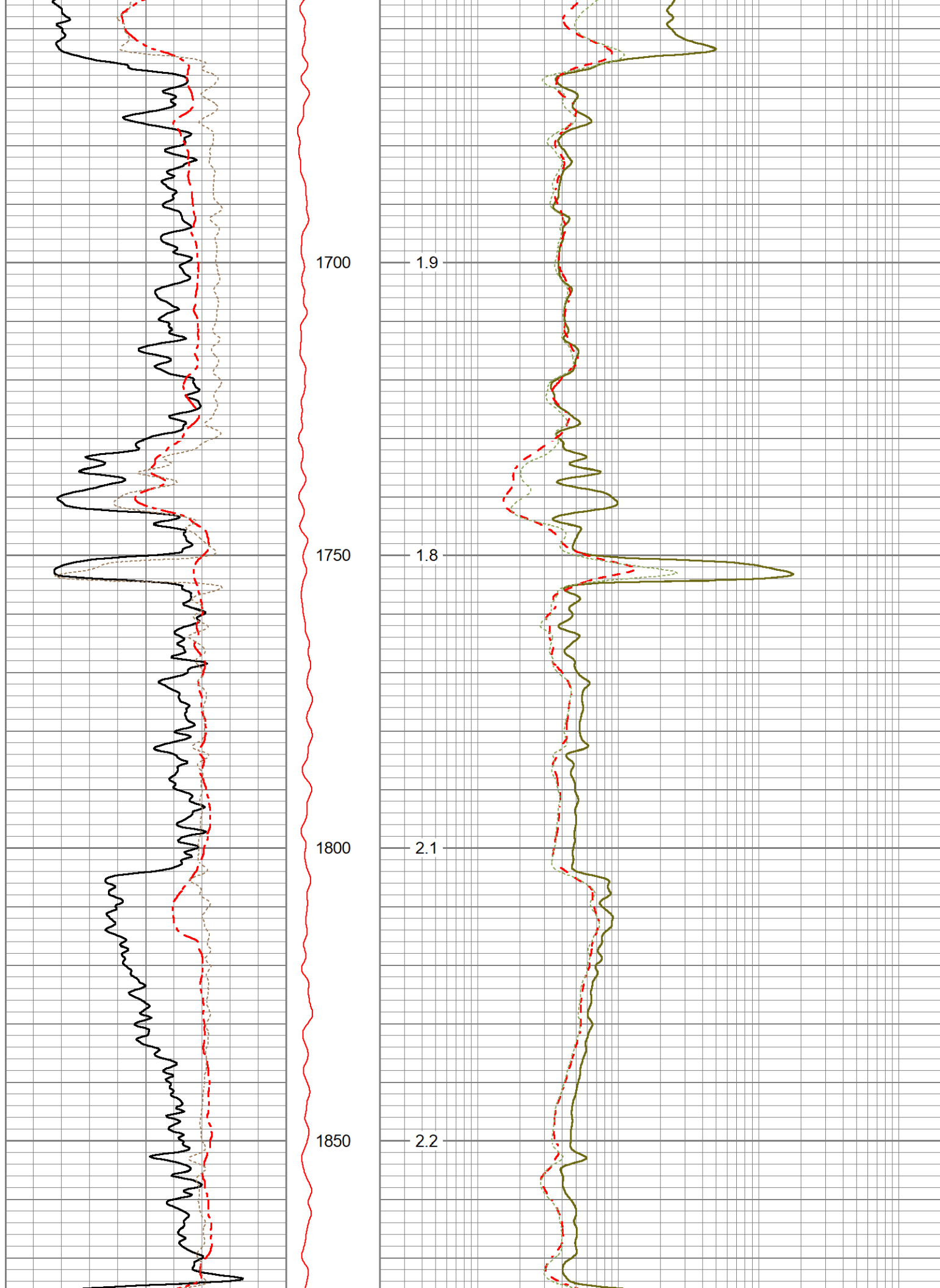


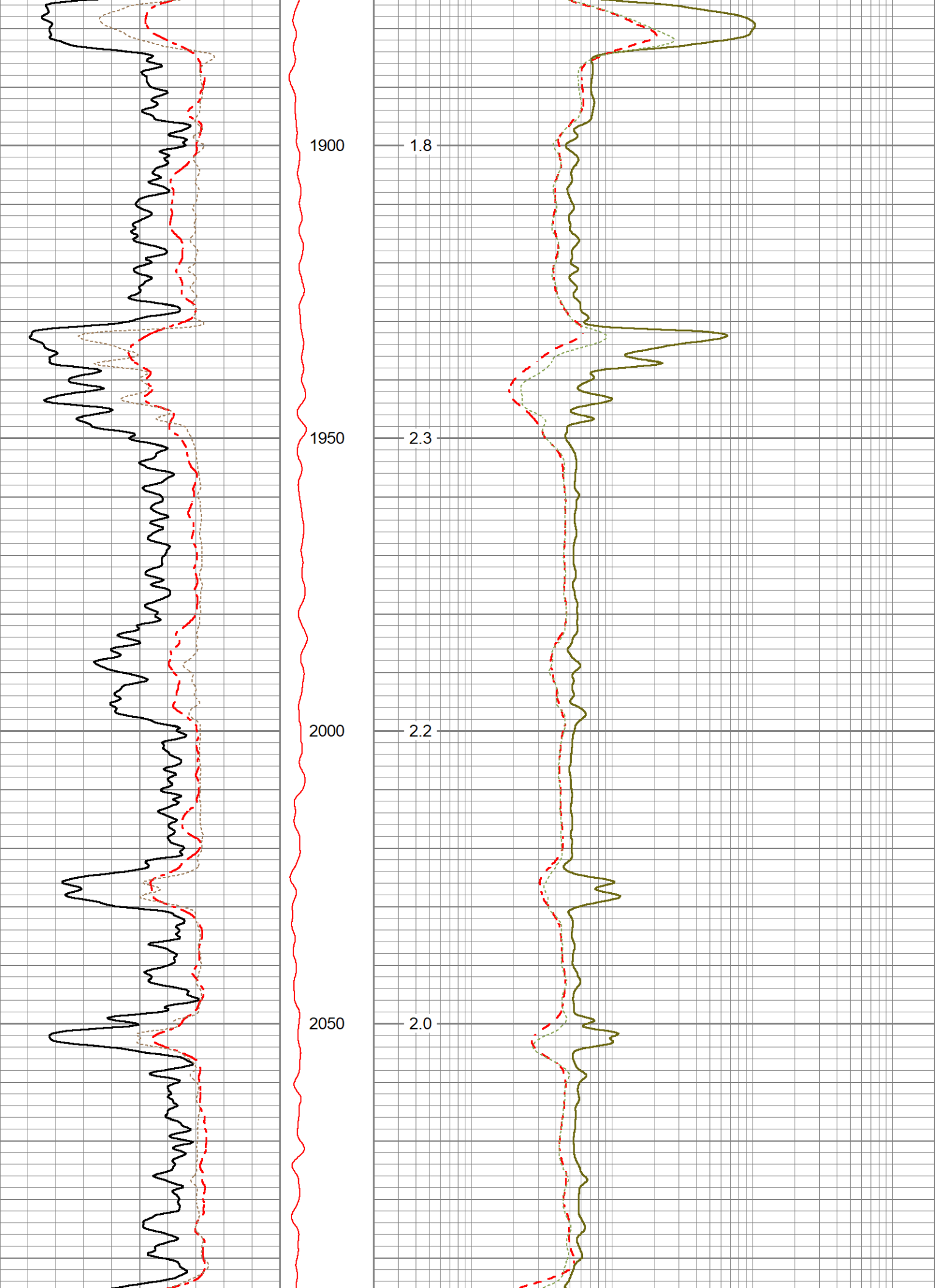


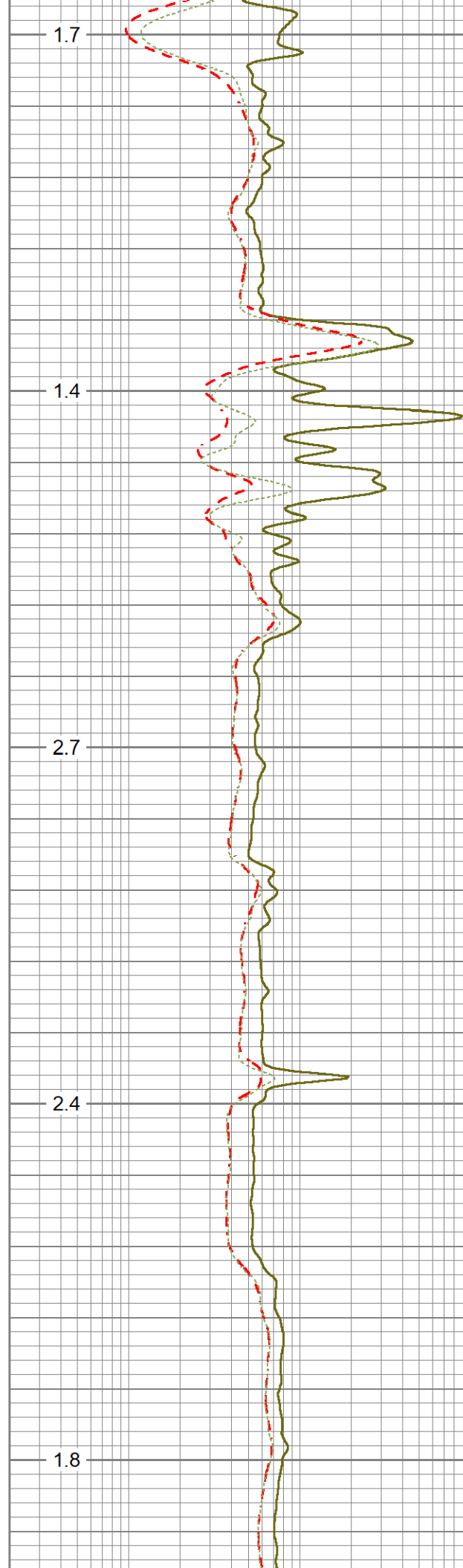
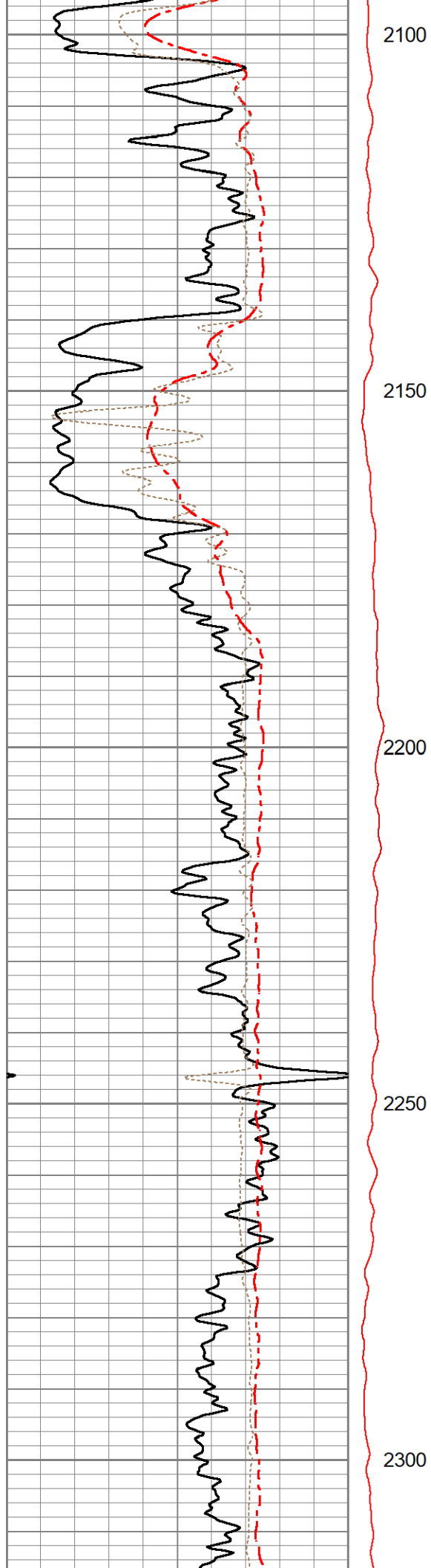


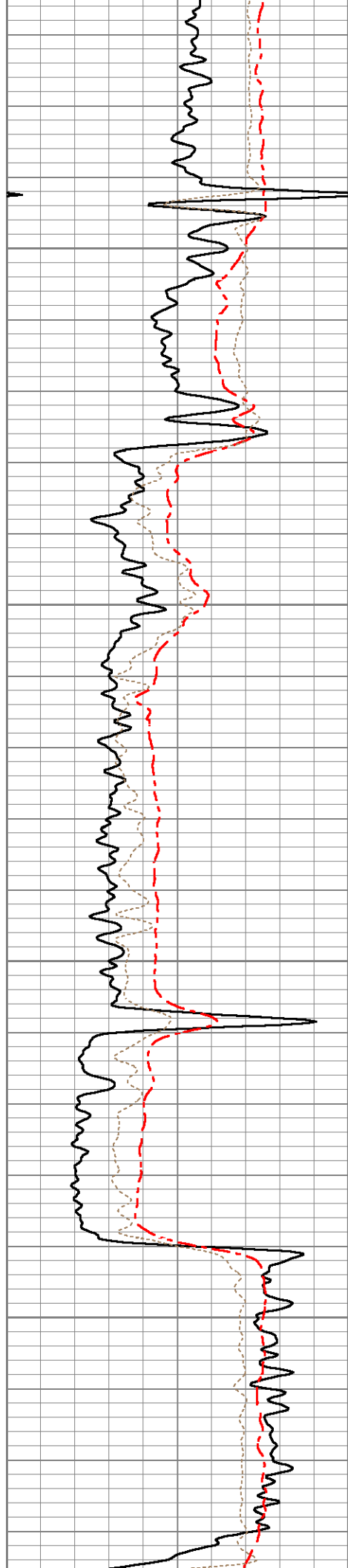










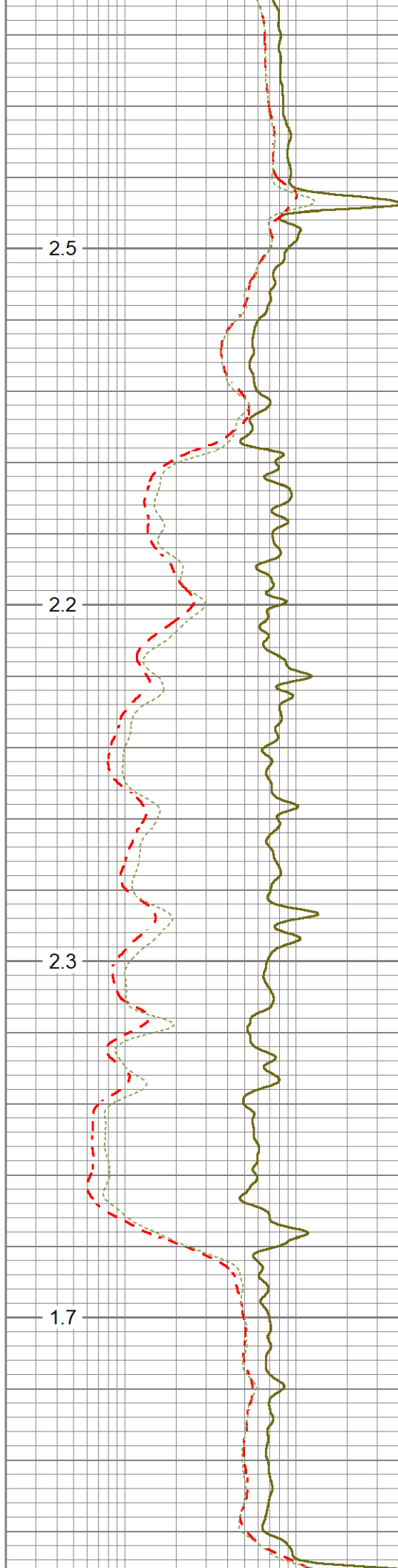


2350

2400

2450

2500

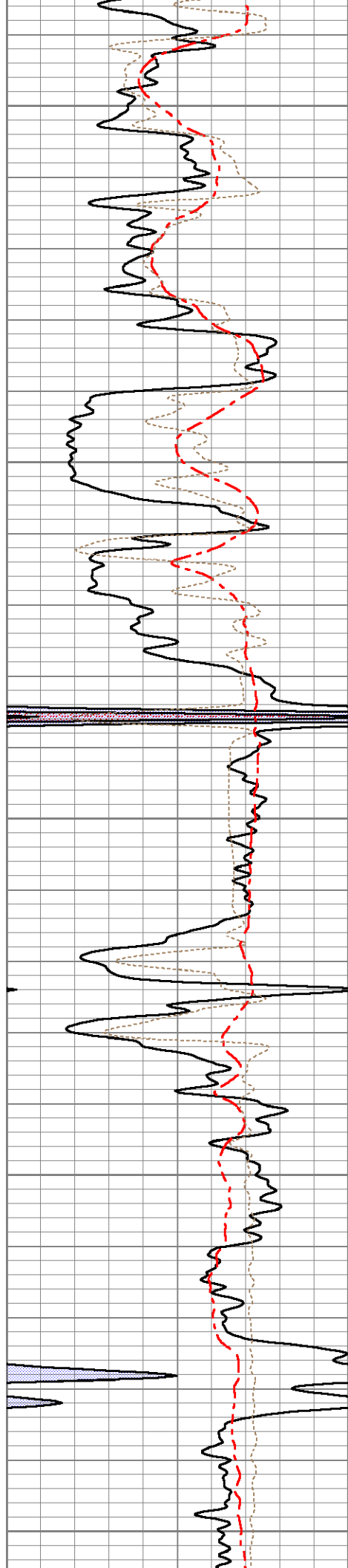


2.5

2.2

2.3

1.7



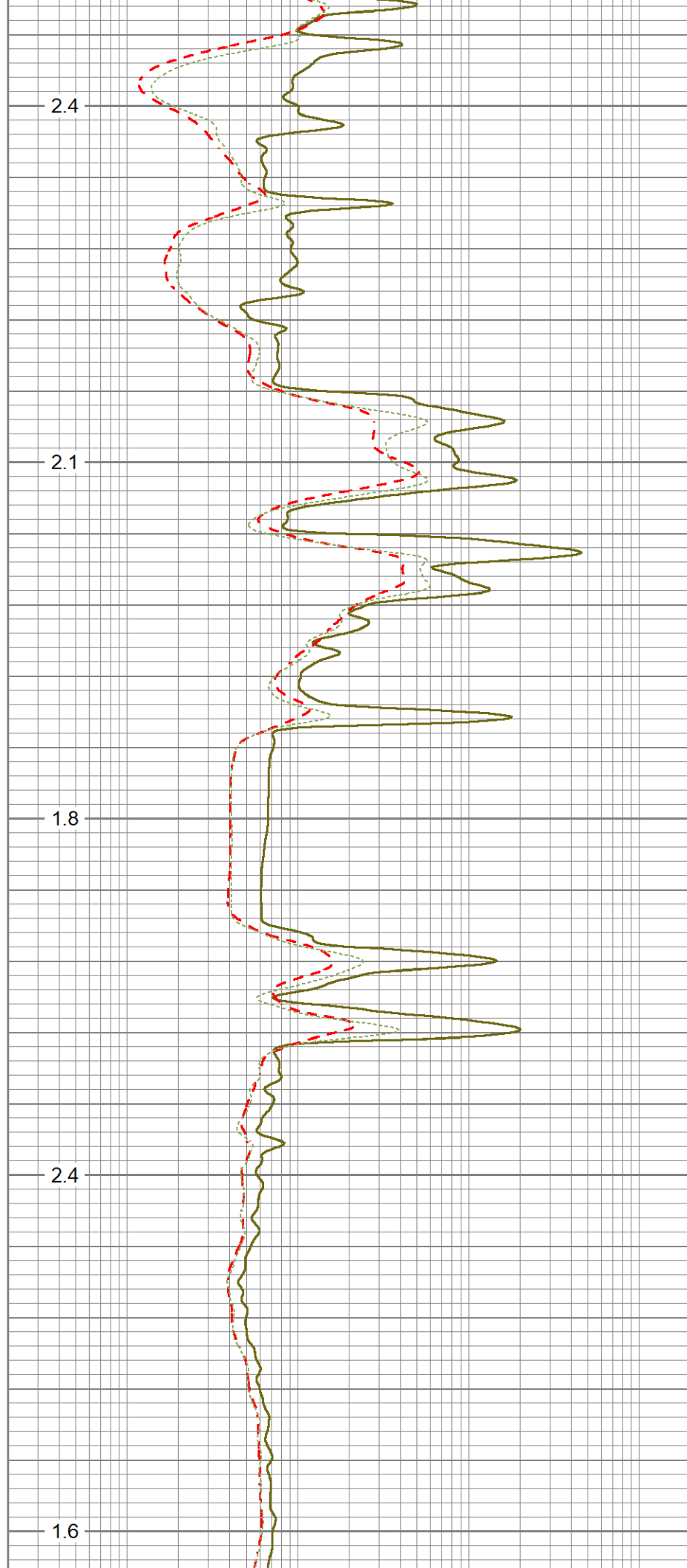
2550

2600

2650

2700

2750



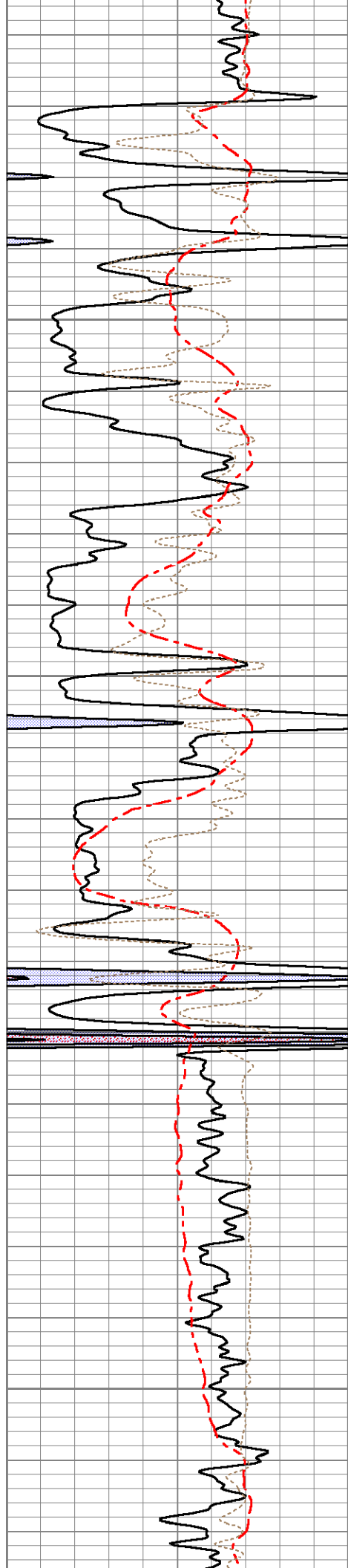
2.4

2.1

1.8

2.4

1.6



2800

2850

2900

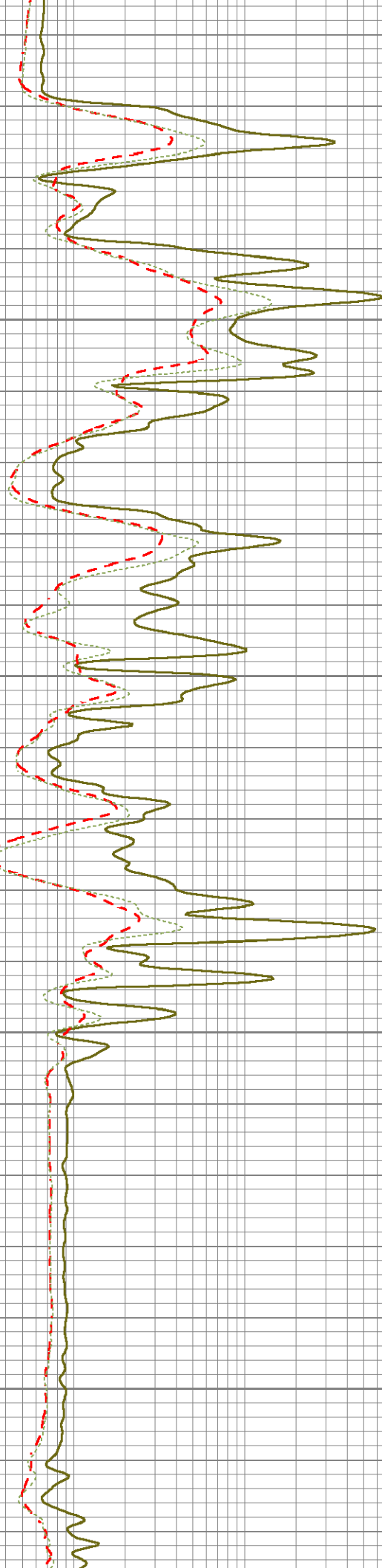
2950

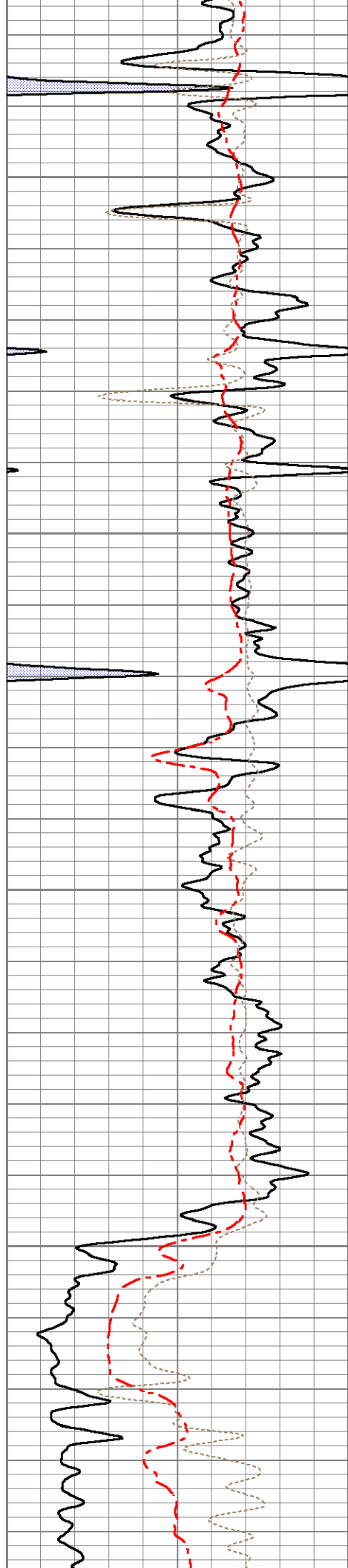
2.3

1.6

2.0

2.1





3000

3050

3100

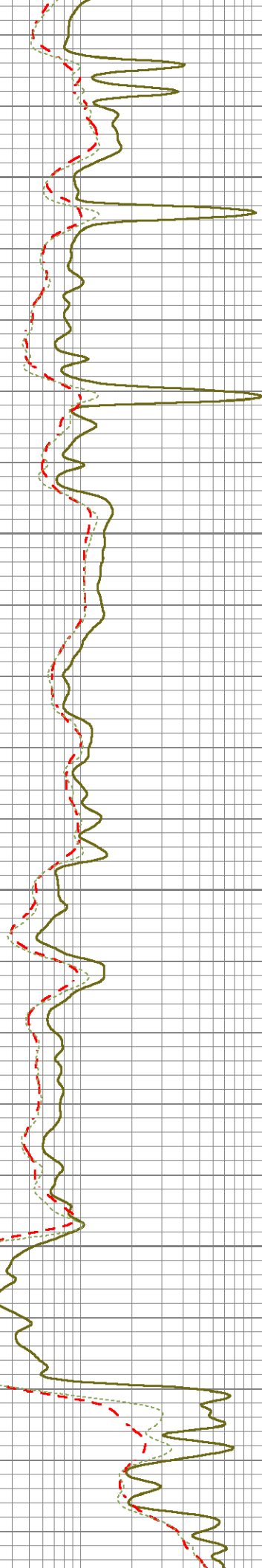
3150

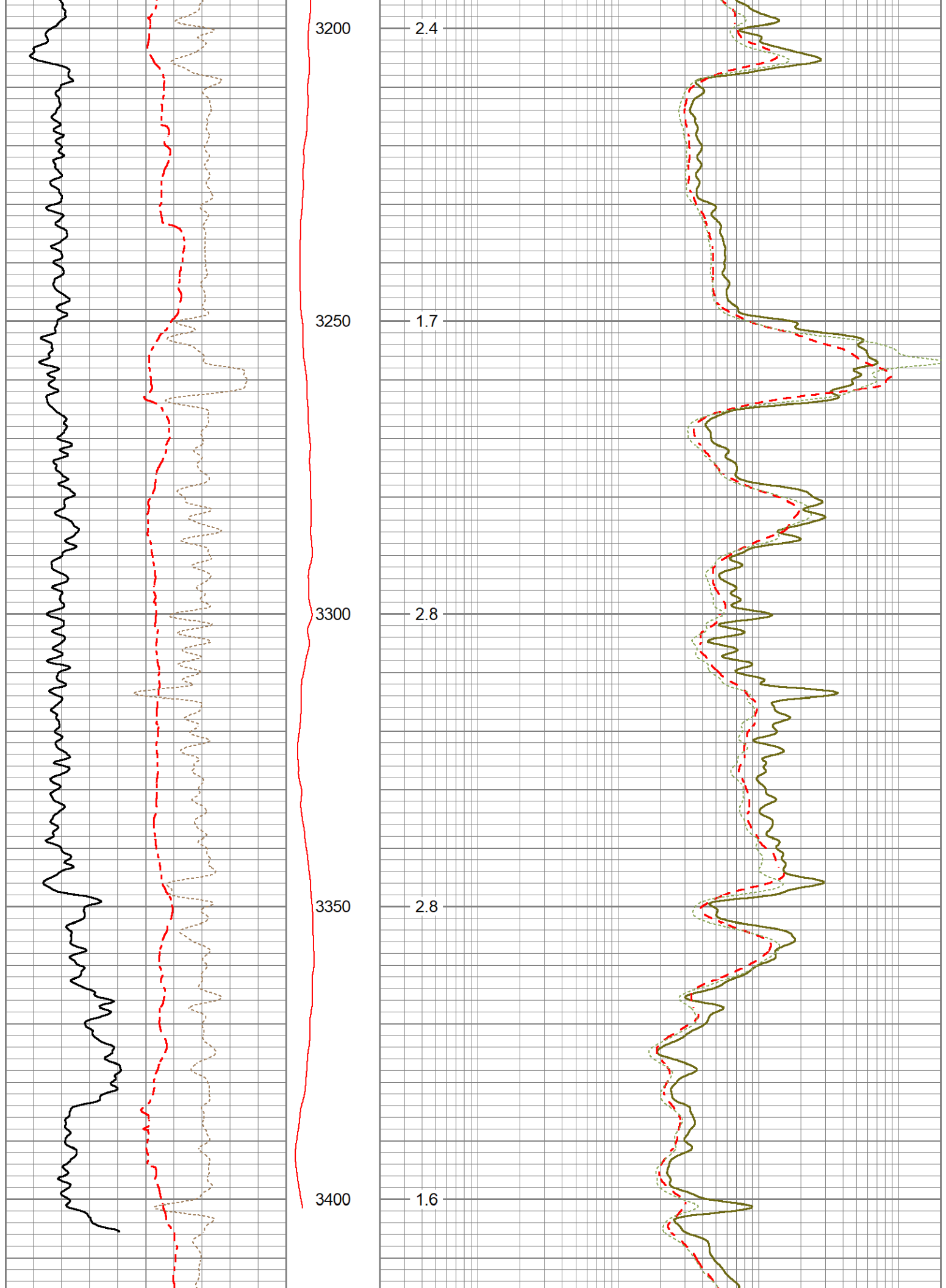
2.5

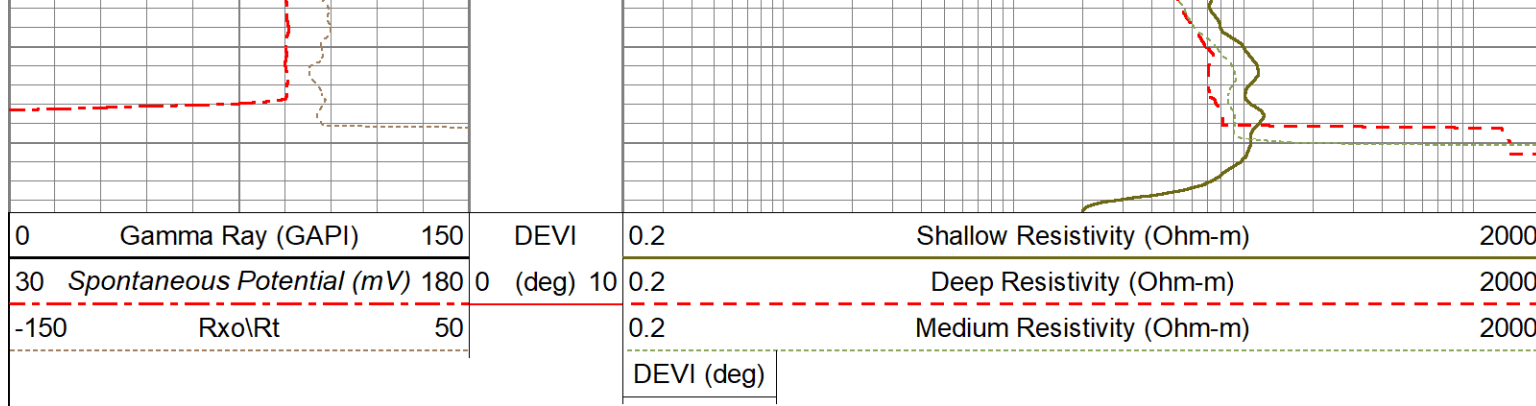
2.2

2.4

1.7







Calibration Report									
Database File	ow2-9136 wd short.db								
Dataset Pathname	pass2.6								
Dataset Creation	Fri Sep 30 05:20:42 2022								
Dual Induction Calibration Report									
Serial-Model:					BlackTool-G				
Surface Cal Performed:					Tue Aug 9 20:33:47 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	13.000	400.000	mmho/m	609.574	8.781	
Medium	0.010	0.728	V	-12.500	450.000	mmho/m	643.489	-18.733	
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		2500.000	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:					070527-Osage				
Performed:					Thu Sep 8 20:16:01 2022				
Readings				References			Results		

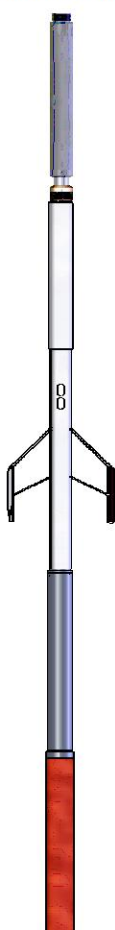
	Zero	Cal		Zero	Cal		m	b
Normal	0.0019	0.0947	V	0.0000	10.0000	Ohm-m	107.7790	-0.2027
Inverse	-0.0034	0.1175	V	0.0000	10.0000	Ohm-m	82.6663	0.2850
Caliper	1.7618	4.3262	V	5.4500	11.2500	in	2.2618	1.4651

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		MICRO_DIG-Osage (070527) Digital Microlog	7.21	5.13	137.00
SSTAT	28.54					
PSTAT	28.54					
ASTAT	28.54					
MI	23.00					
MN	23.00					
MCAL	22.00					
ASTAT2	21.33					

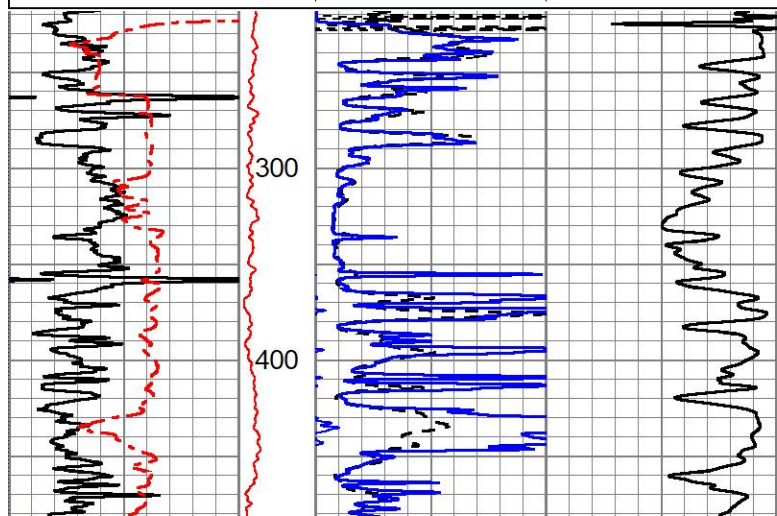
SP	10.92		DIL-G (BlackTool) Gearhart	21.33	4.00	290.00
CILD	10.92					
CILM	7.00					
RLL3	1.65					
TR_Mon	0.00					
Dataset: ow2-9136 wd short.db: field/well/run1/pass2.6 Total length: 32.23 ft Total weight: 480.00 lb O.D.: 5.13 in						

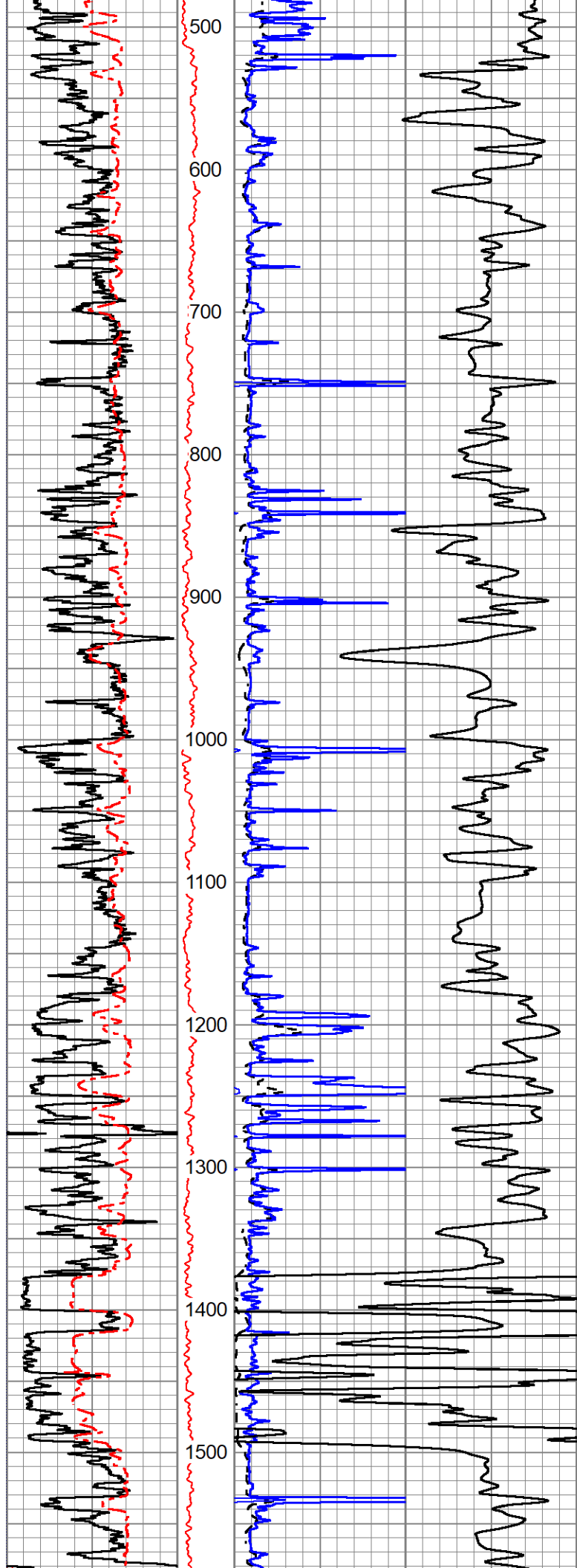


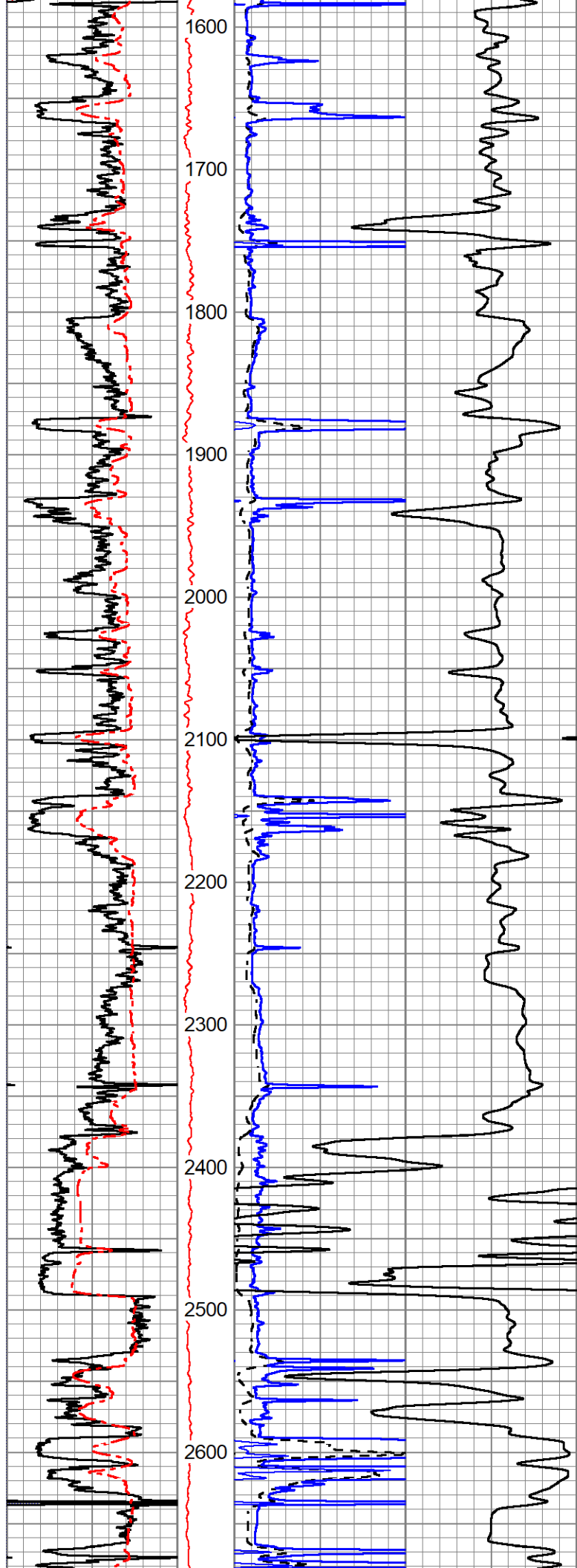
1" INDUCTION LOG

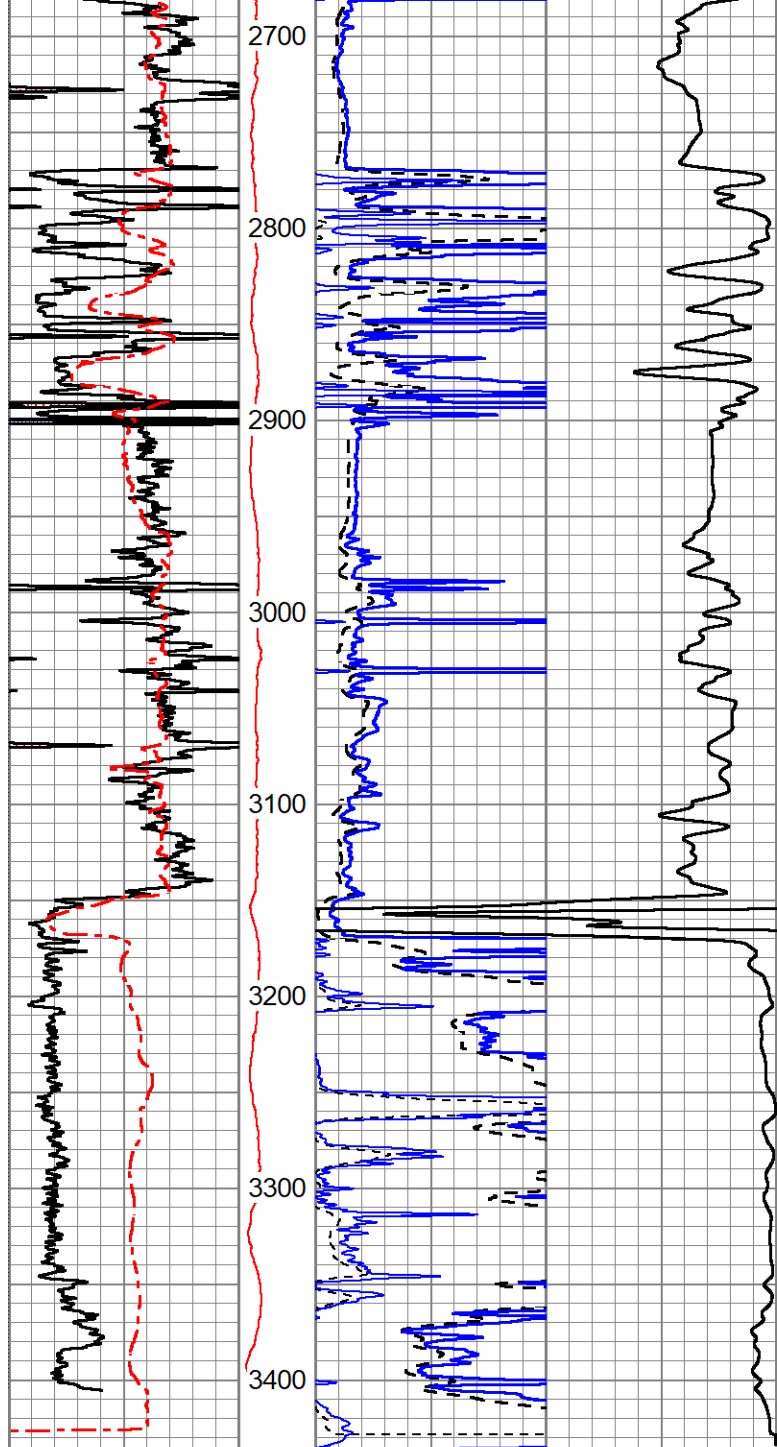
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 Presentation Format mmdil1
 Dataset Creation Fri Sep 30 04:57:38 2022
 Charted by Depth in Feet scaled 1:1200

0	GR (GAPI)150	DEVI	1000	CILD (mmho/m)	0
30	SP (mV) 180	(deg)			
		0 10			
			0	(Ohm-m) 50	
				RLL3	
			0	(Ohm-m) 50	









0	GR (GAPI)	150	DEVI	1000	CILD (mmho/m)	0
30	SP (mV)	180	(deg)	RILD		
0		10		(Ohm-m)	50	
				RLL3		
				(Ohm-m)	50	