



DUAL INDUCTION LOG

Company		C & G DRILLING, INC.	
Well		HALL B # 1	
Field		PLUM GROVE NORTHWEST	
County		BUTLER	
State		KANSAS	
Location:		API # : 15-015-24162-00-00	
Permanent Datum		GL	
Log Measured From		KB	
Drilling Measured From		KB	
SEC 14 TWP 24S RGE 4E		Elevation 1411	
Other Services		CDLN MEL	
SE NW SE NE 3620' FSL & 952' FEL		Elevation K.B. 1417 D.F. 1416 G.L. 1411	
Date	4-16-2022		
Run Number	ONE		
Depth Driller	2563		
Depth Logger	2566		
Bottom Logged Interval	2564		
Top Log Interval	SURFACE		
Casing Driller	8.625" @ 200		
Casing Logger	8.625" @ 206		
Bit Size	7.875"		
Type Fluid in Hole	CHEMICAL		
Density / Viscosity	9.6 / 55		
pH / Fluid Loss	9.5 / 12.8		
Source of Sample	PIT		
Rm @ Meas. Temp	4 @ 70		
Rmf @ Meas. Temp	3.2 @ 70		
Rmc @ Meas. Temp	4.8 @ 70		
Source of Rmf / Rmc			
Rm @ BHT	1.5 @ 100		
Time Circulation Stopped	1:00 PM		
Time Logger on Bottom	4:00 PM		
Maximum Recorded Temperature	100		
Equipment Number	OW2		
Location	HOMINY, OK		
Recorded By	SHELDON TYLER		
Witnessed By	MR. GULICK		
	MACKAY		
	MR. STOUT		
	KIDD		
	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

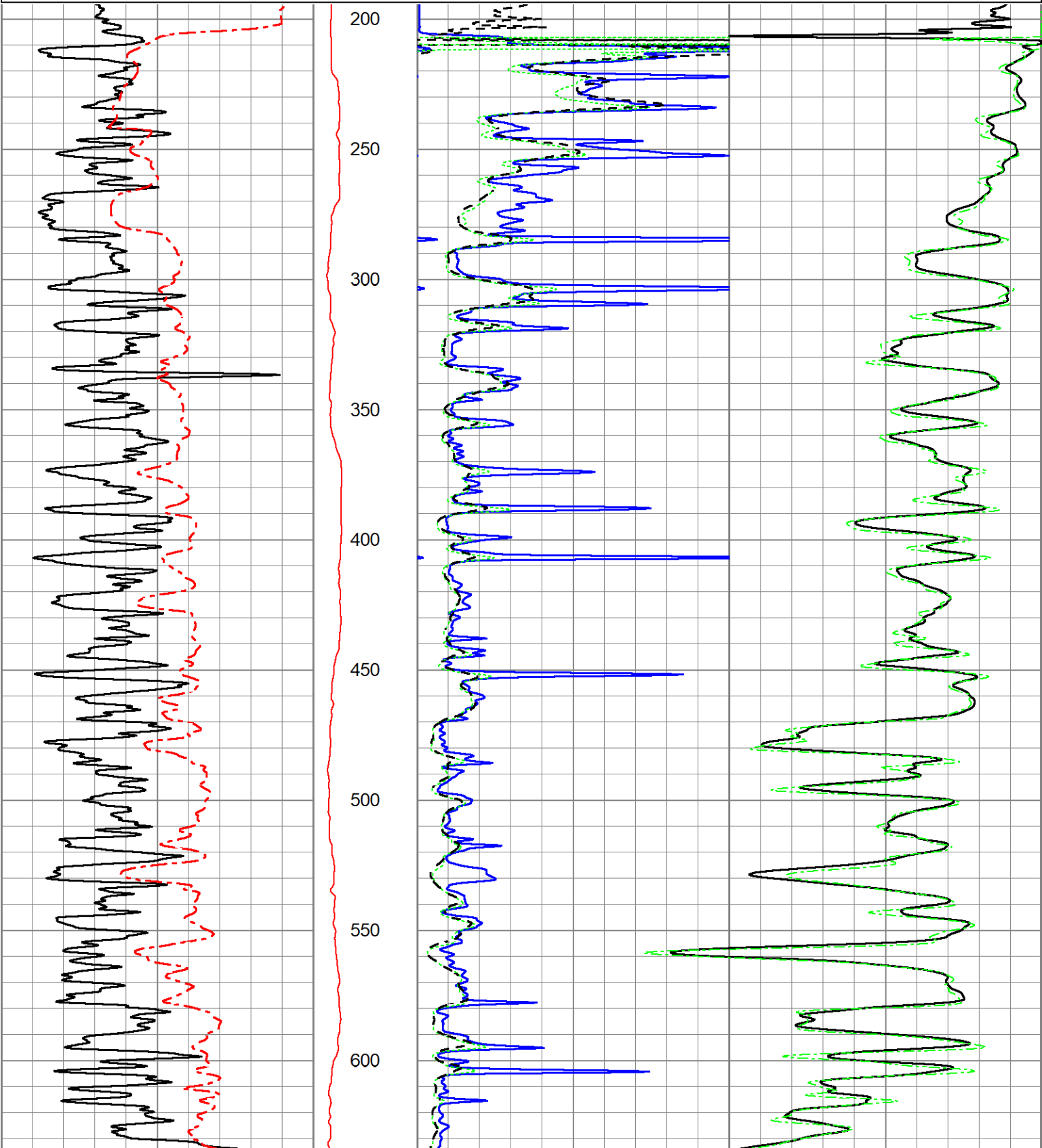
FILE # OW2-9043 C&g DRILLING
THANK YOU FOR USING OSAGE WIRELINE

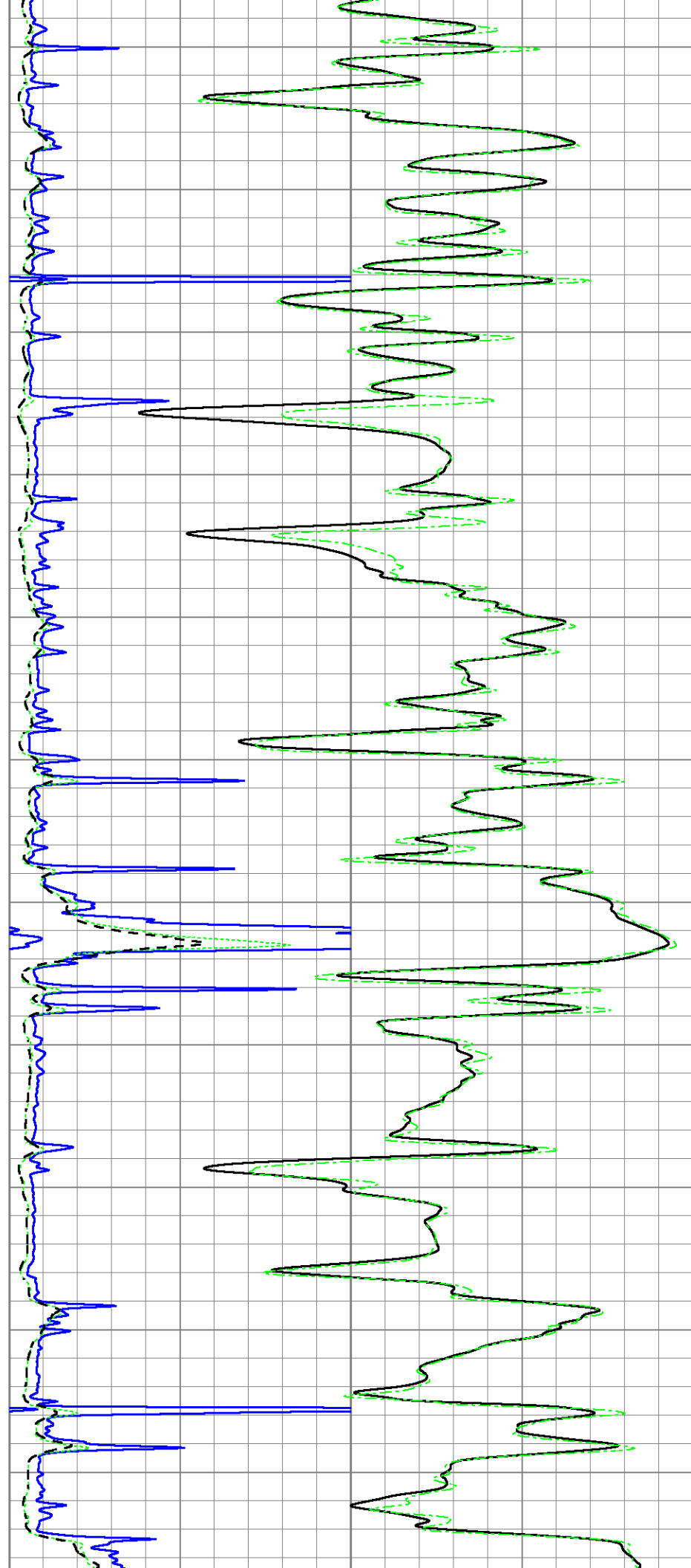
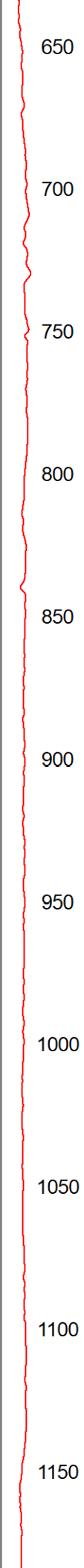
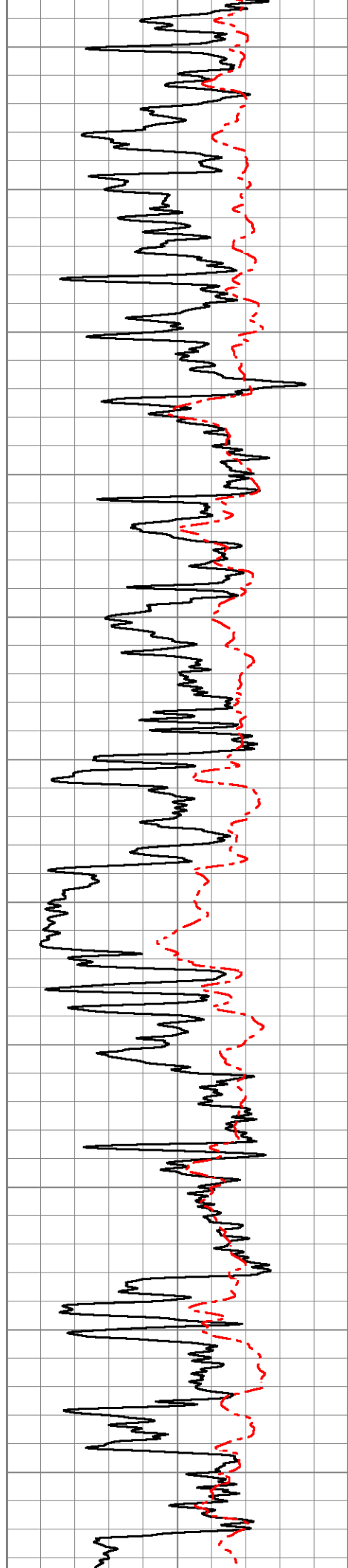


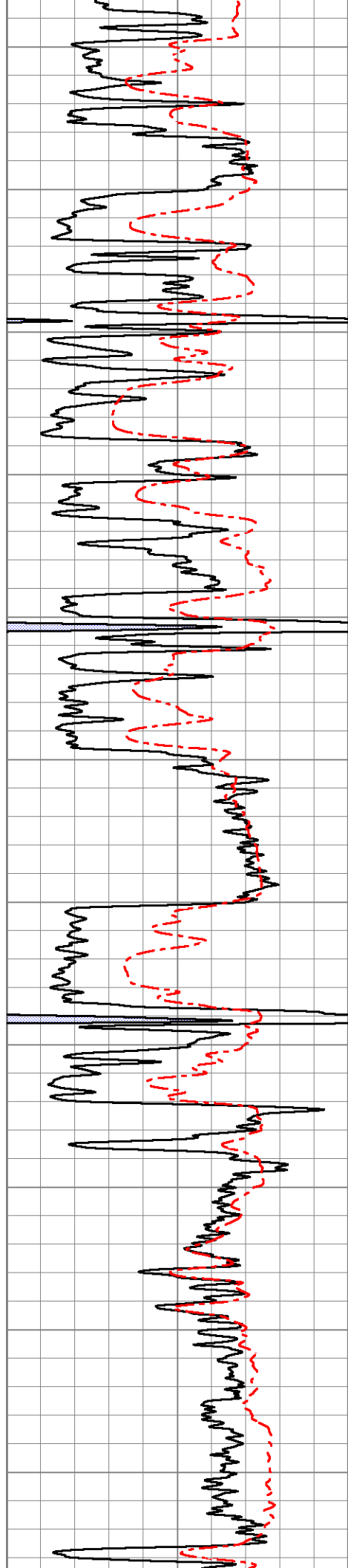
2" DIL INDUCTION LOG

Database File	ow2-9043 c&g drilling.db
Dataset Pathname	pass2.3
Presentation Format	st_dil_2inch_6-16
Dataset Creation	Sat Apr 16 16:53:42 2022
Charted by	Depth in Feet scaled 1:600

0	GR (GAPI)	150	DEVI	1000	CILD (mmho/m)	0
30	Spontaneous Potential (mV)	200	0 (deg)	10	CILM (mmho/m)	0
				0	RLL3 (Ohm-m)	50
				0	RILM (Ohm-m)	50
				0	RILD (Ohm-m)	50







1200

1250

1300

1350

1400

1450

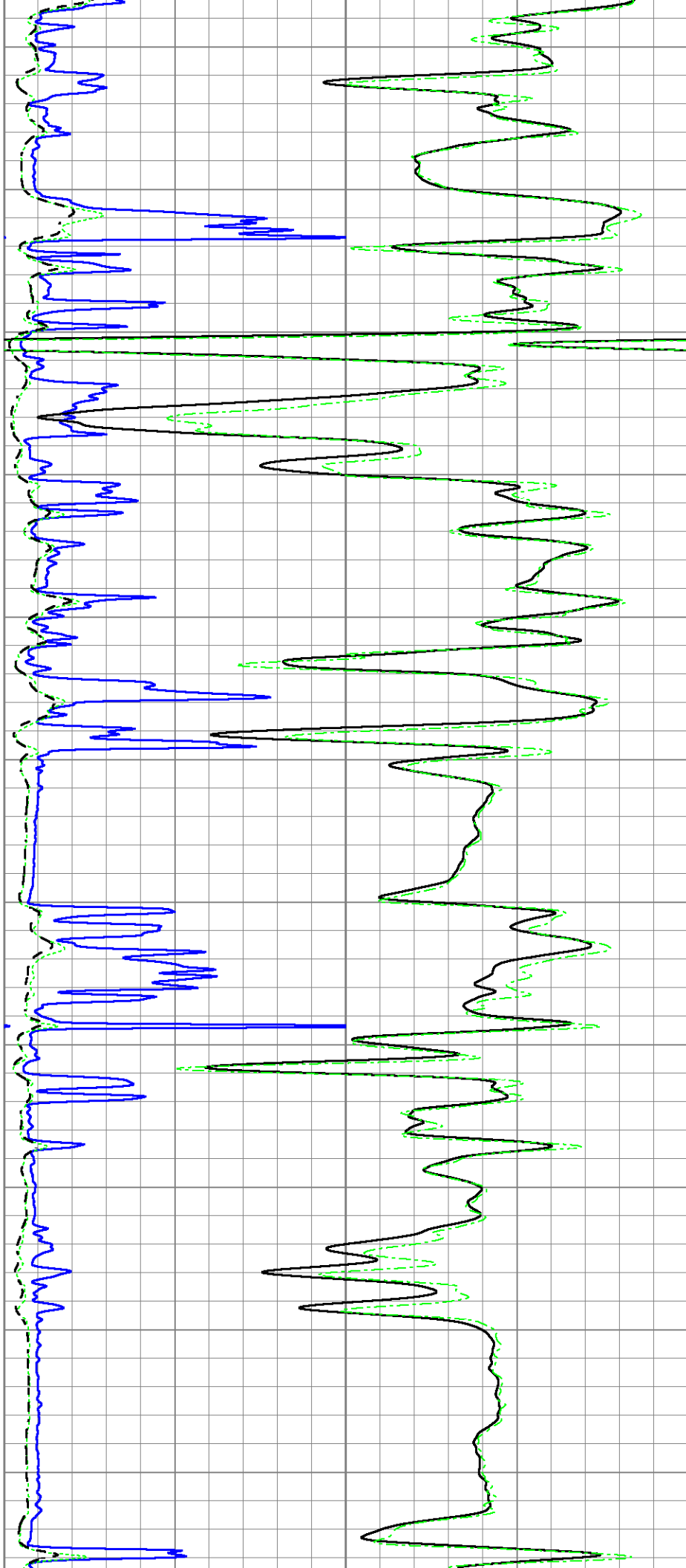
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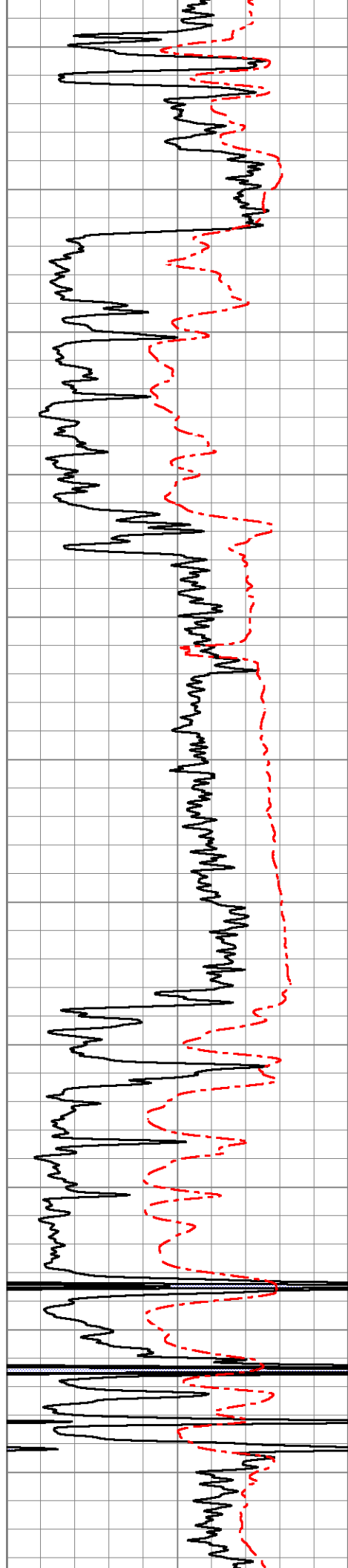
1550

1600

1650

1700





1750

1800

1850

1900

1950

2000

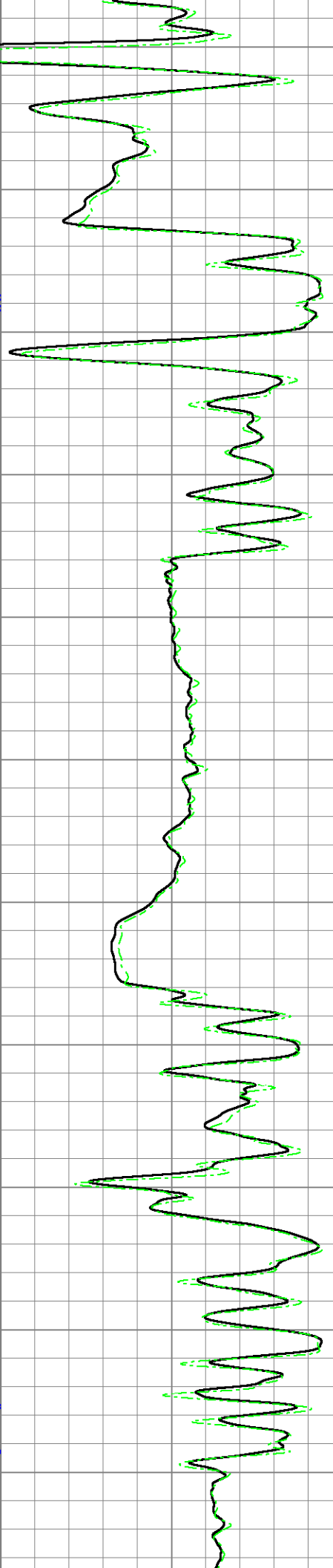
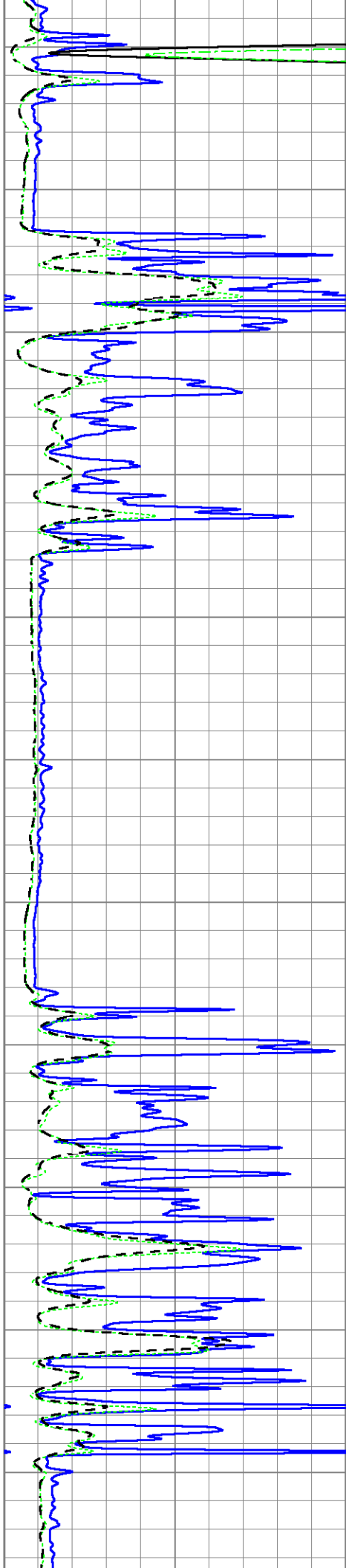
2050

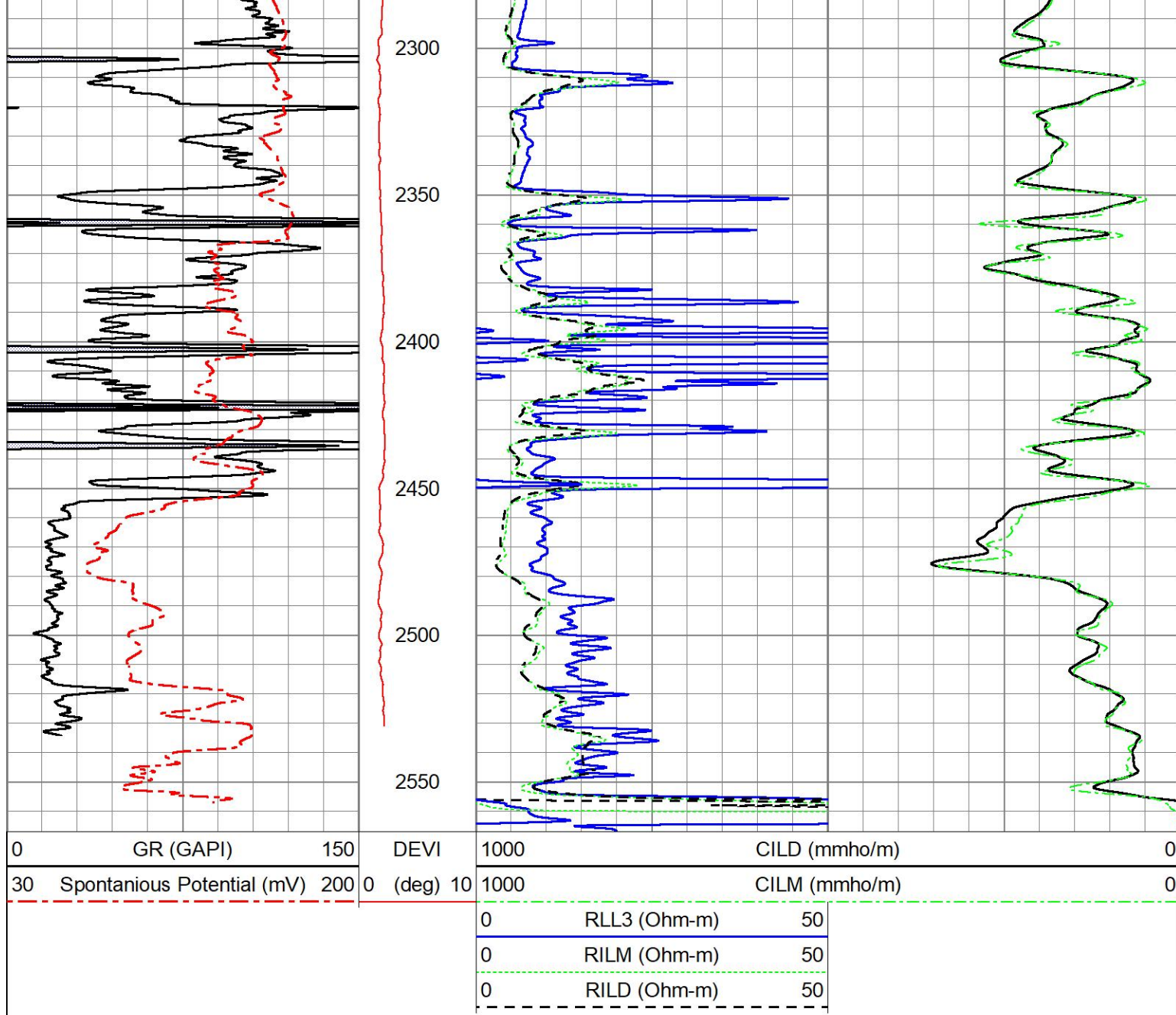
2100

2150

2200

2250

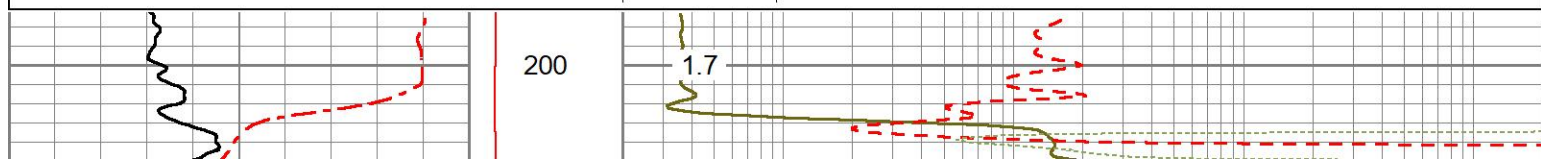


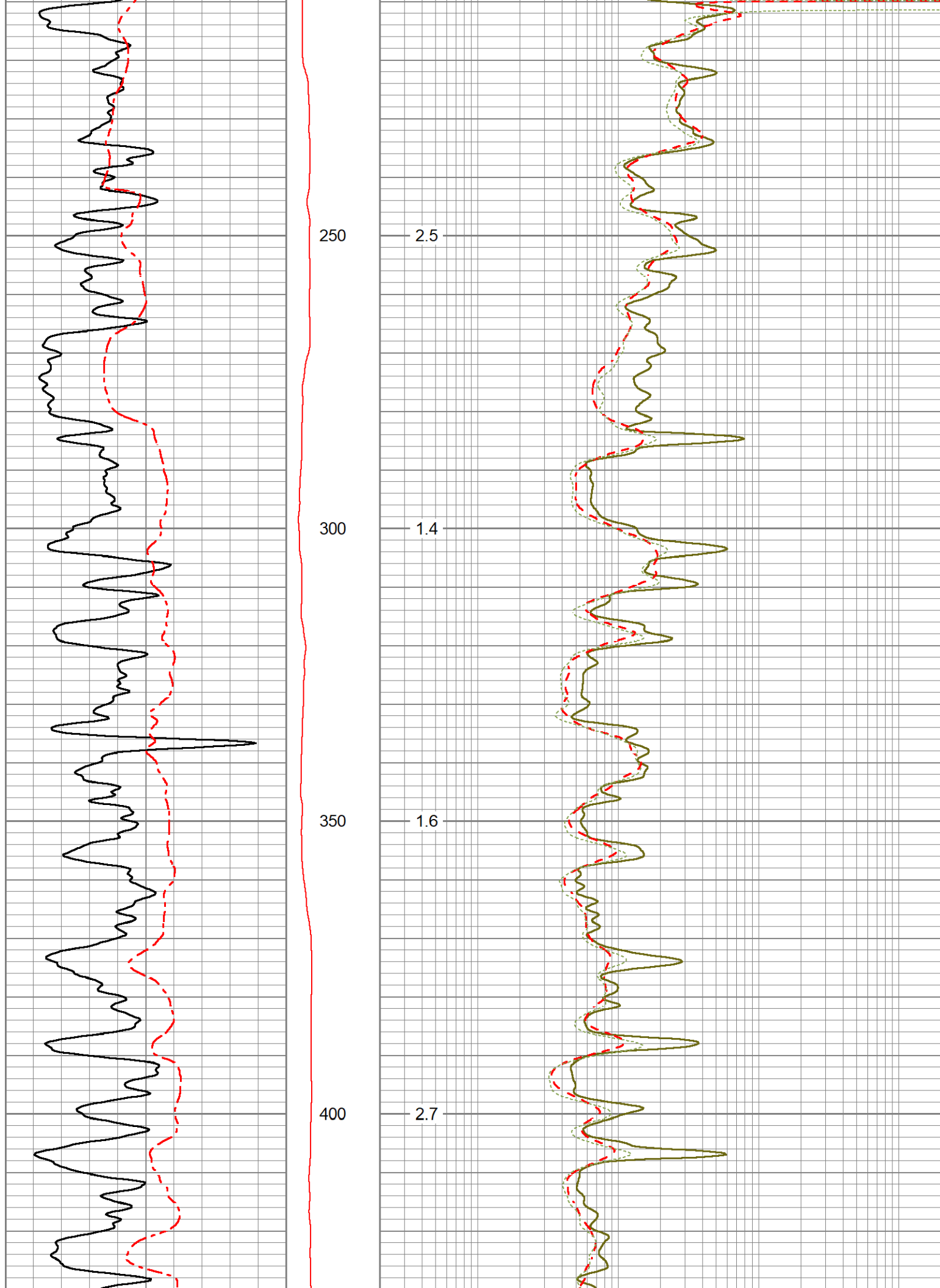


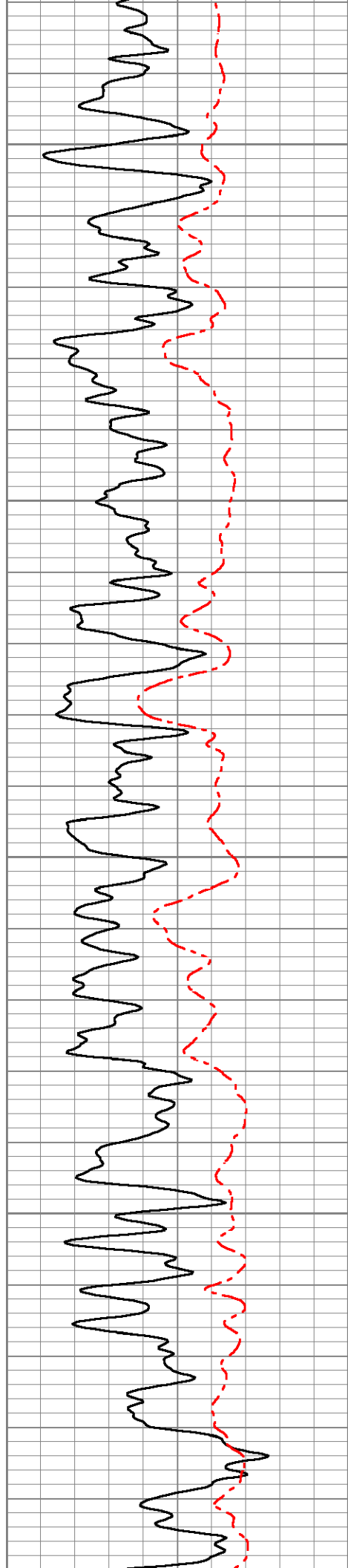
5" DUAL INDUCTION LOG

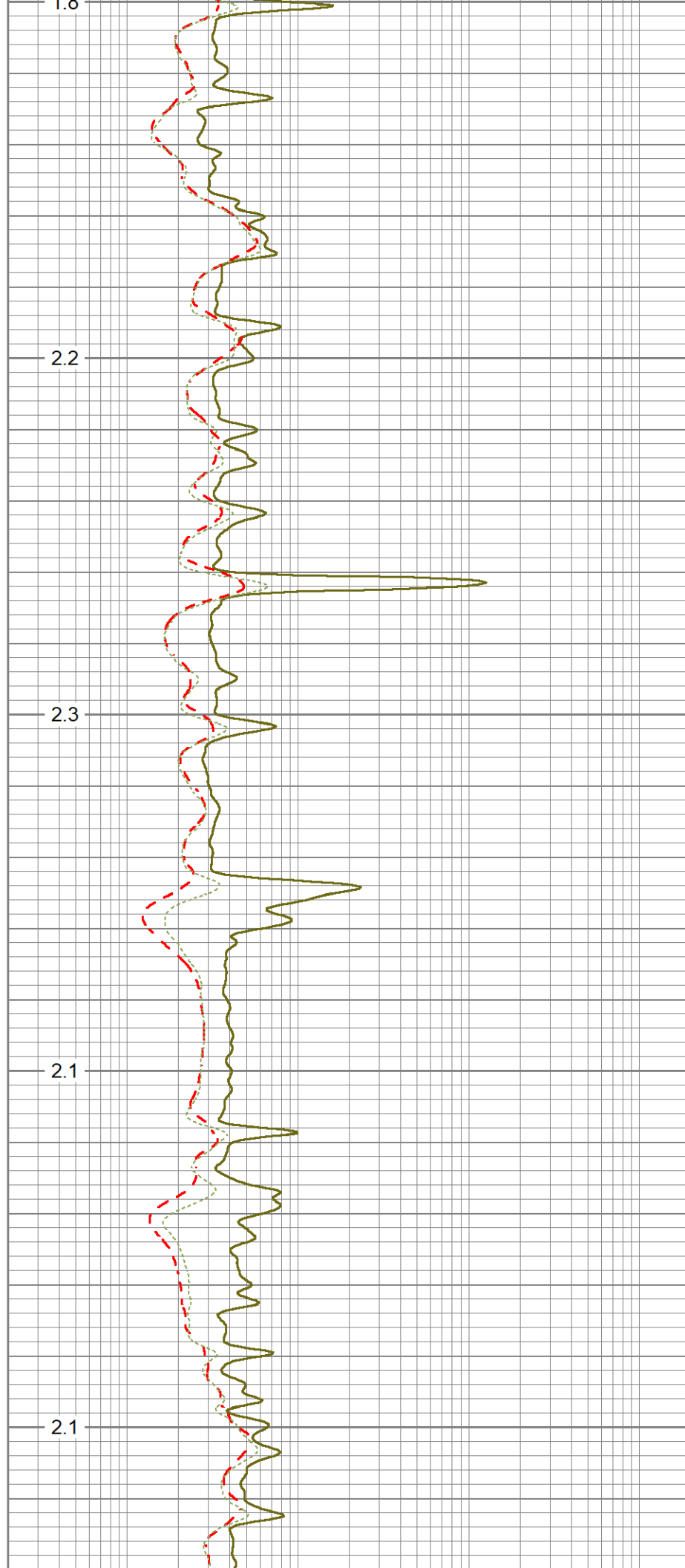
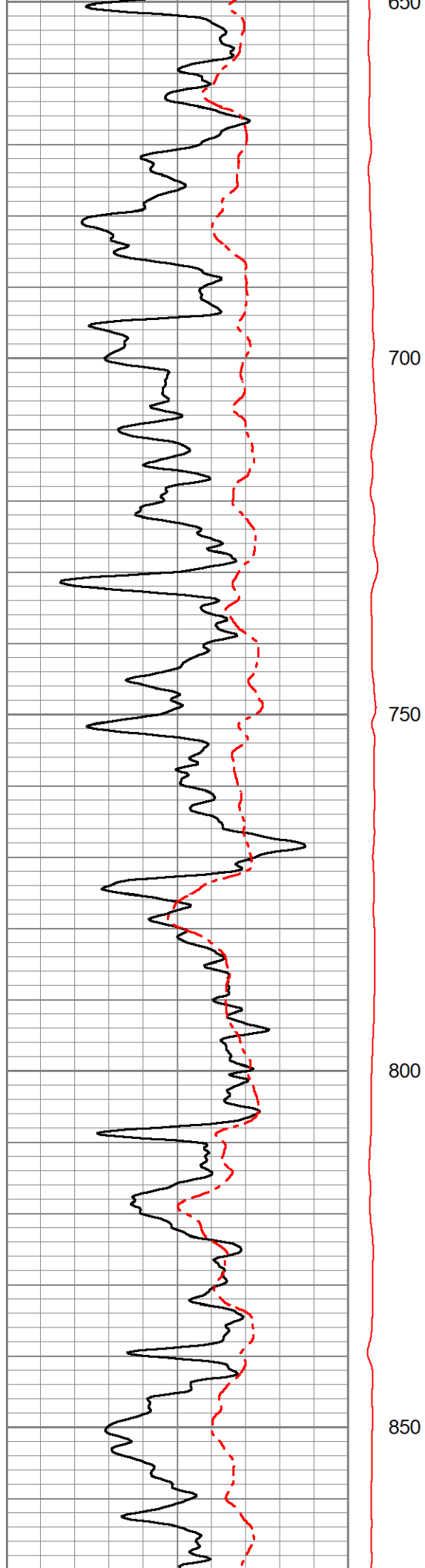
Database File ow2-9043 c&g drilling.db
 Dataset Pathname pass2.2
 Presentation Format st-dil_5
 Dataset Creation Sat Apr 16 16:53:22 2022
 Charted by Depth in Feet scaled 1:240

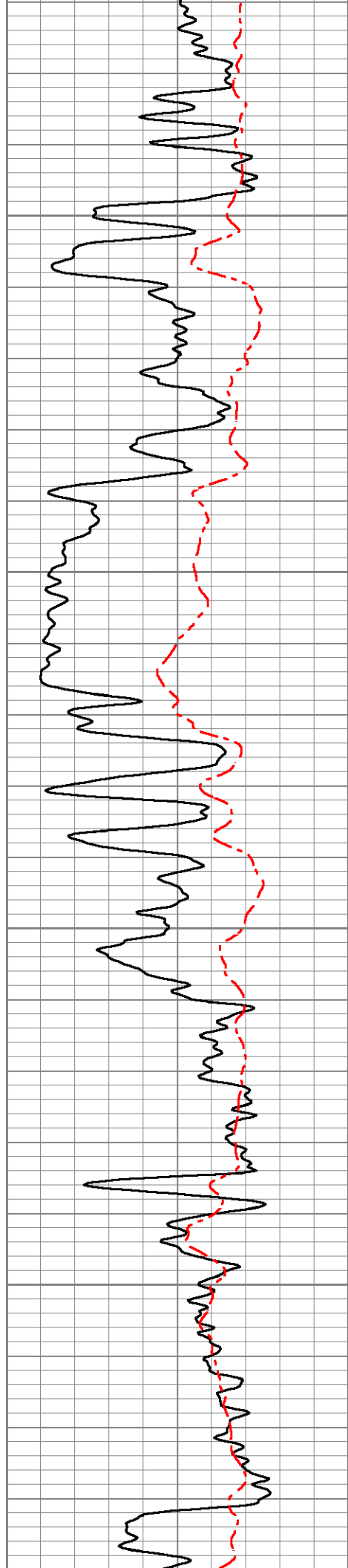
0	Gamma Ray (GAPI)	150	DEVI	0.2	Shallow Resistivity (Ohm-m)	2000
30	Spontaneous Potential (mV)	200	0 (deg)	10	Deep Resistivity (Ohm-m)	2000
					Medium Resistivity (Ohm-m)	2000
				DEVI (deg)		











900

950

1000

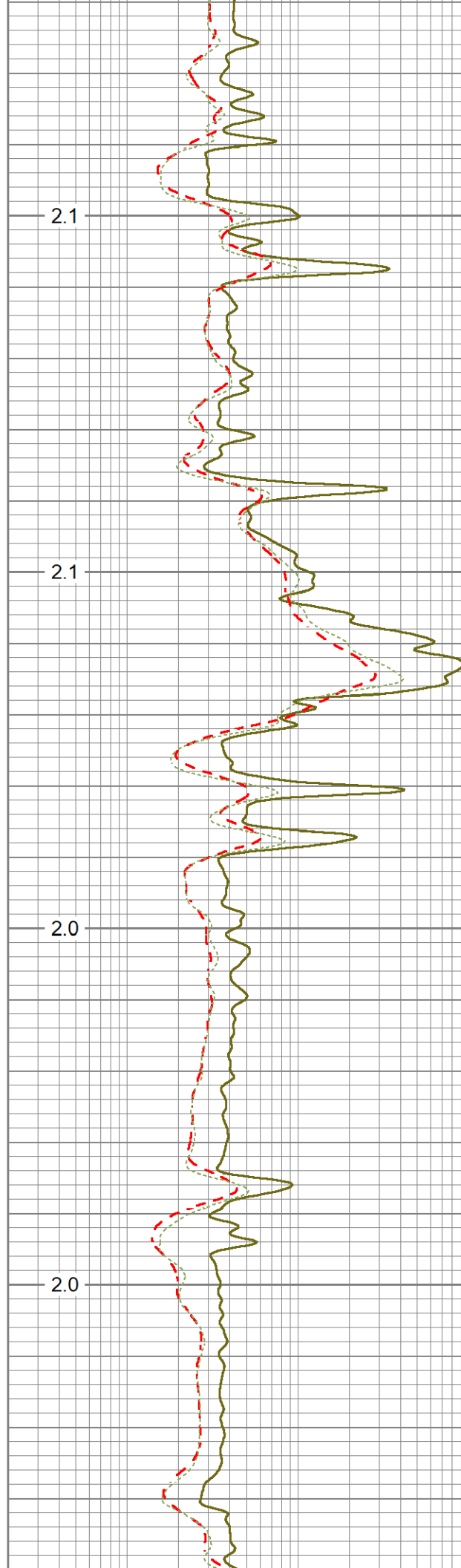
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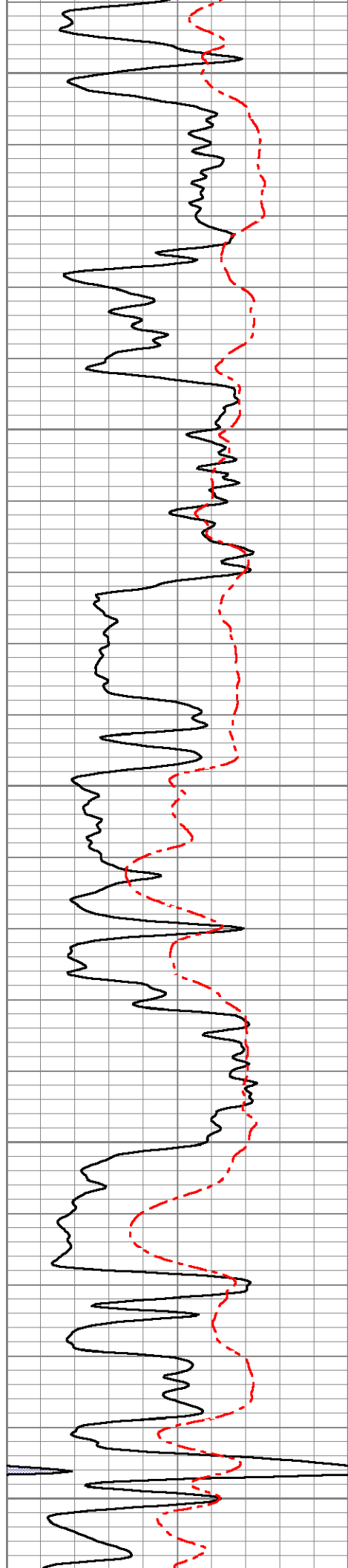
2.1

2.1

2.0

2.0





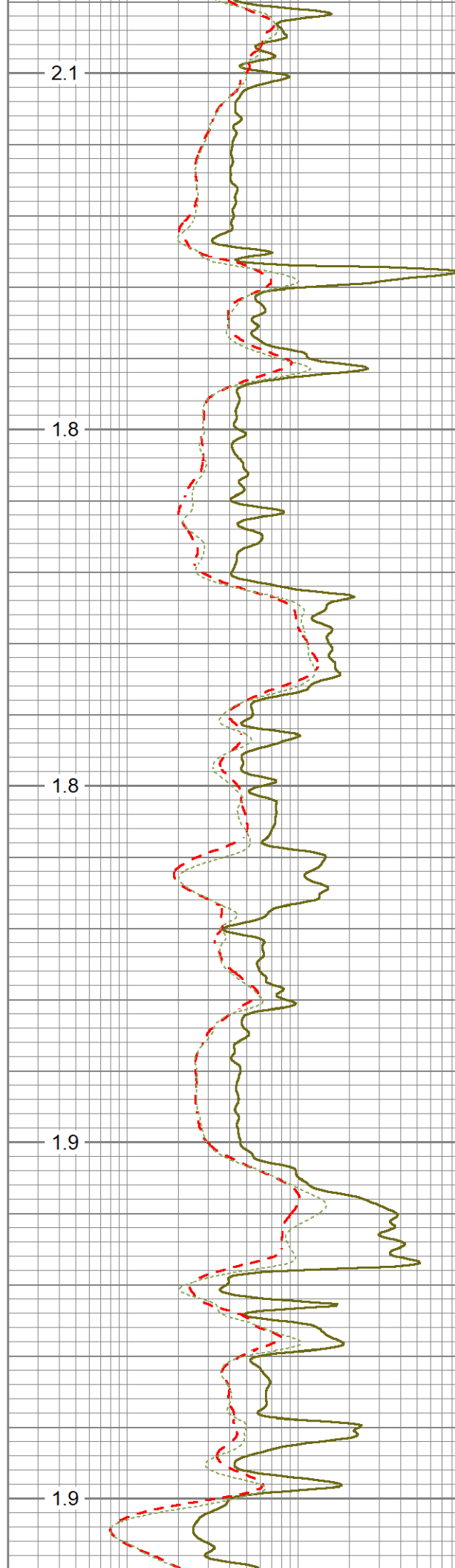
1100

1150

1200

1250

1300



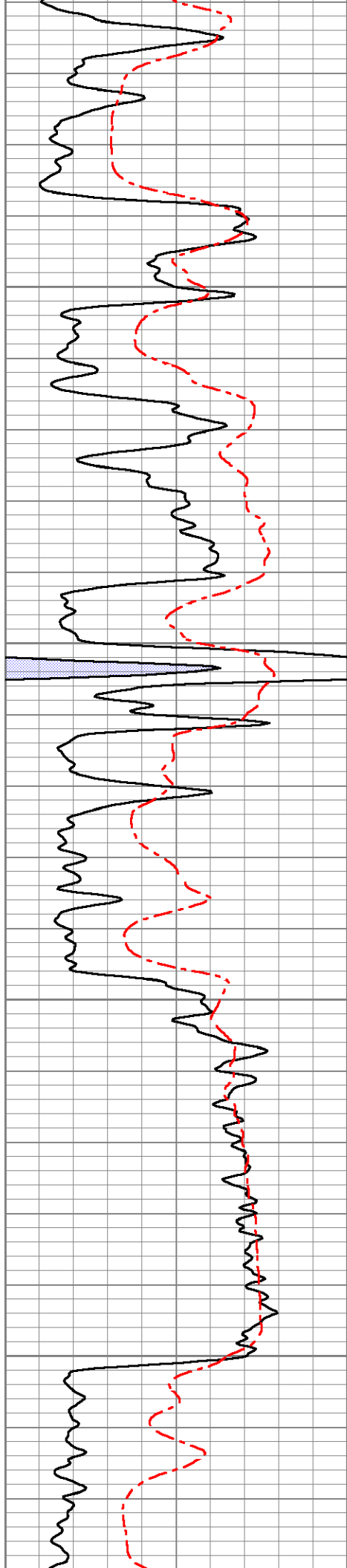
2.1

1.8

1.8

1.9

1.9

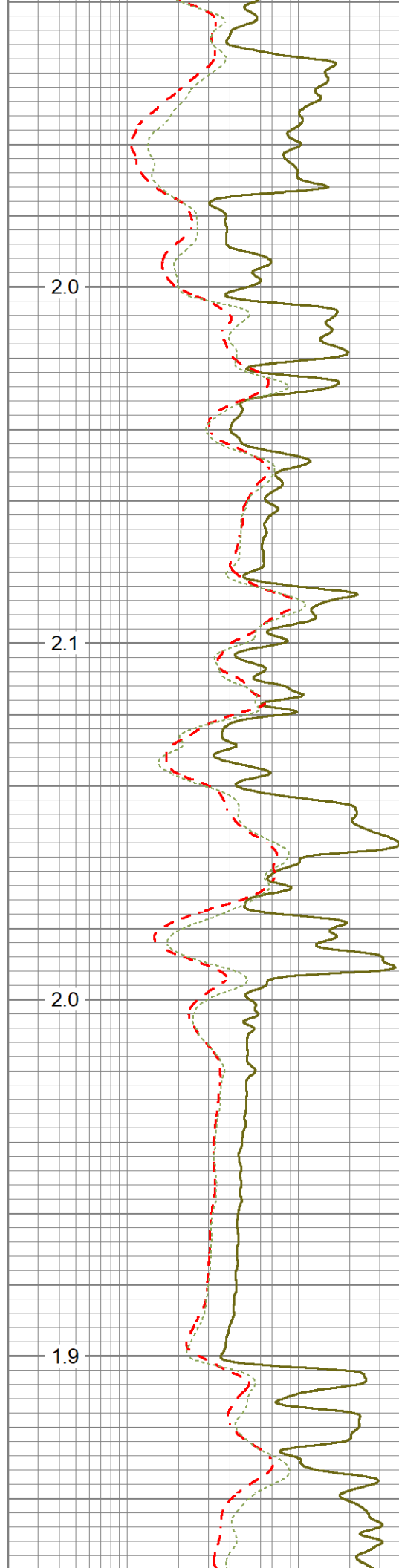


1350

1400

1450

1500

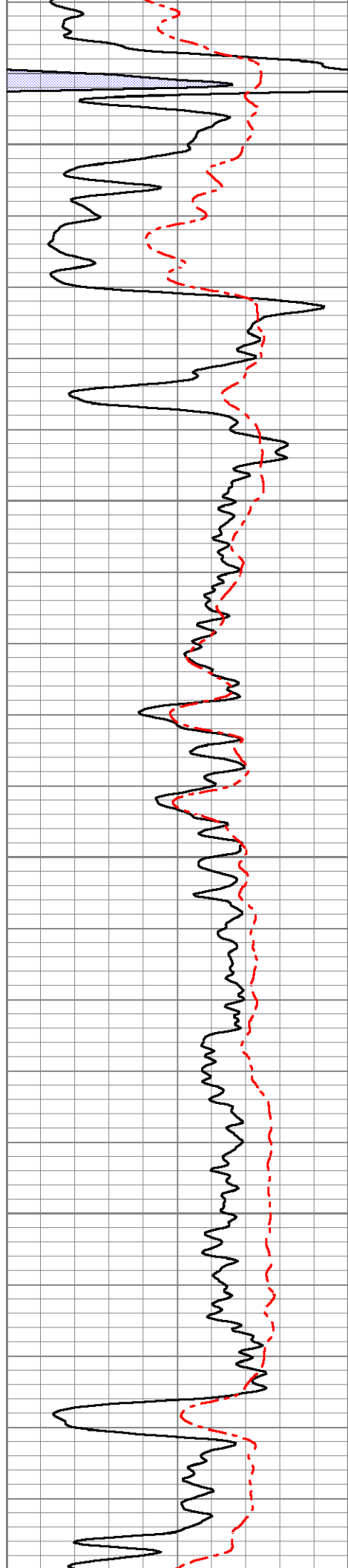


2.0

2.1

2.0

1.9



1550

1600

1650

1700

1750

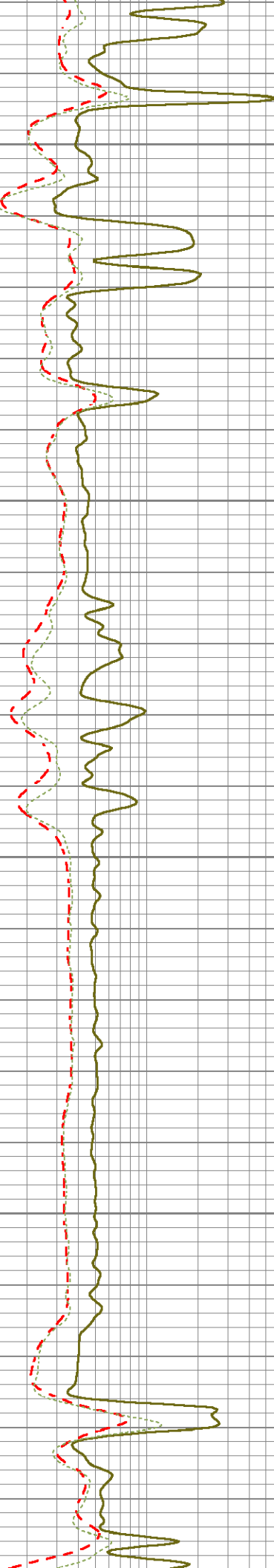
2.0

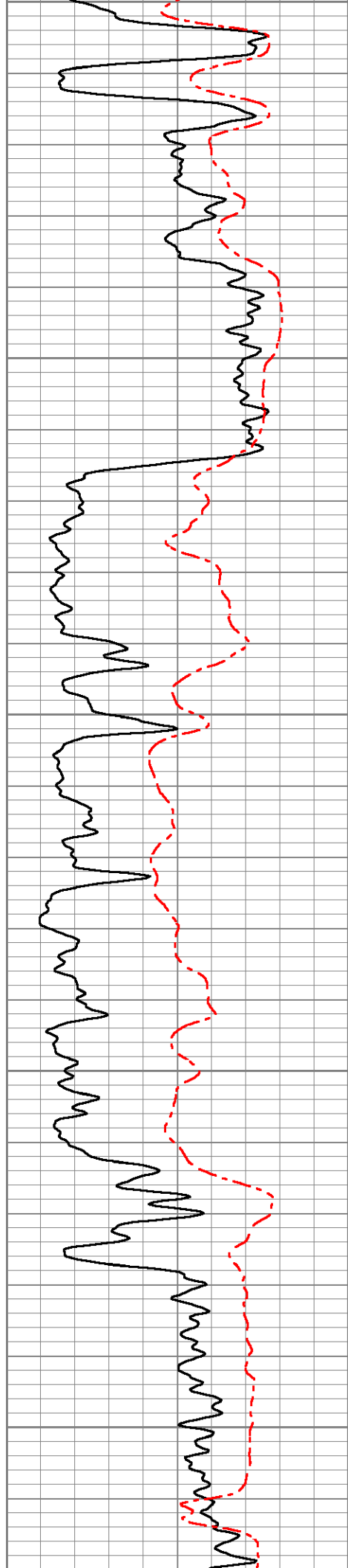
1.9

2.1

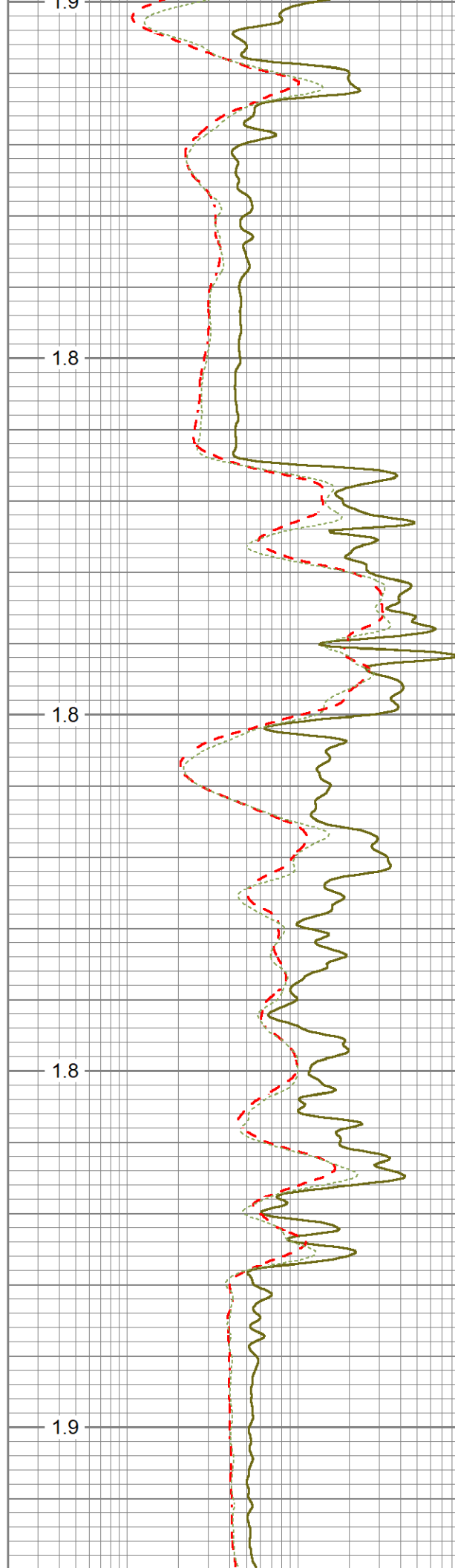
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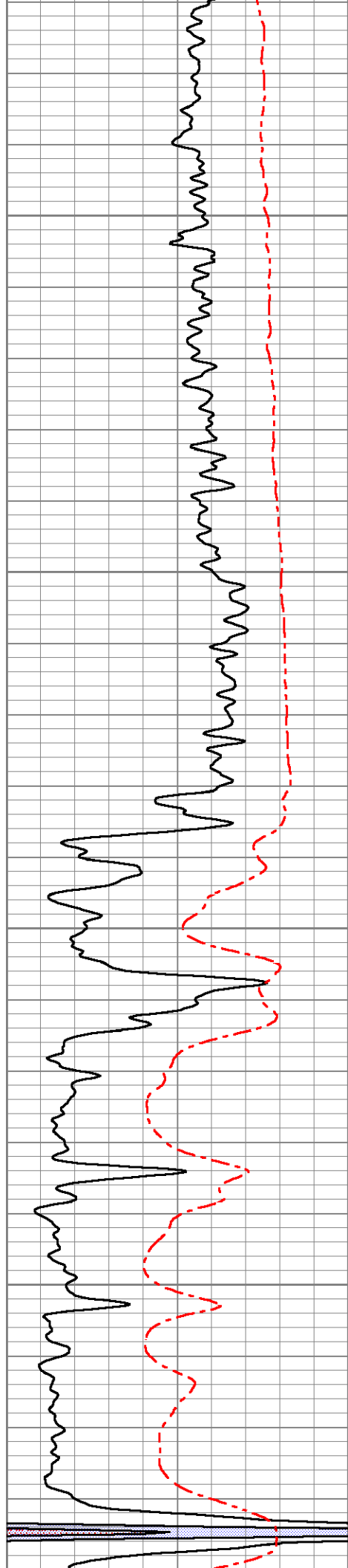
1.8





1750
1800
1850
1900
1950





2000

2050

2100

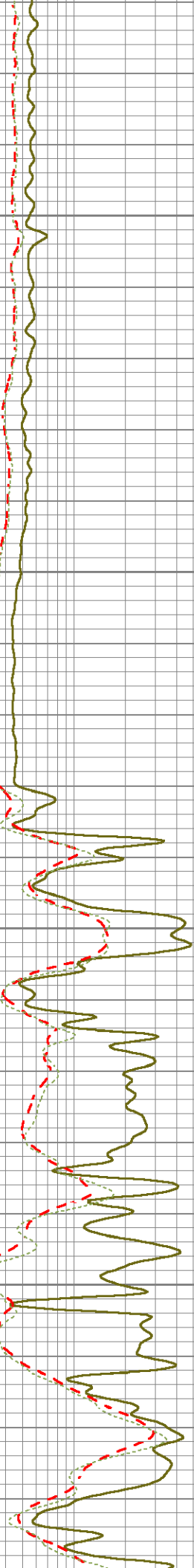
2150

2.0

2.4

2.2

2.4





2200

2250

2300

2350

2400

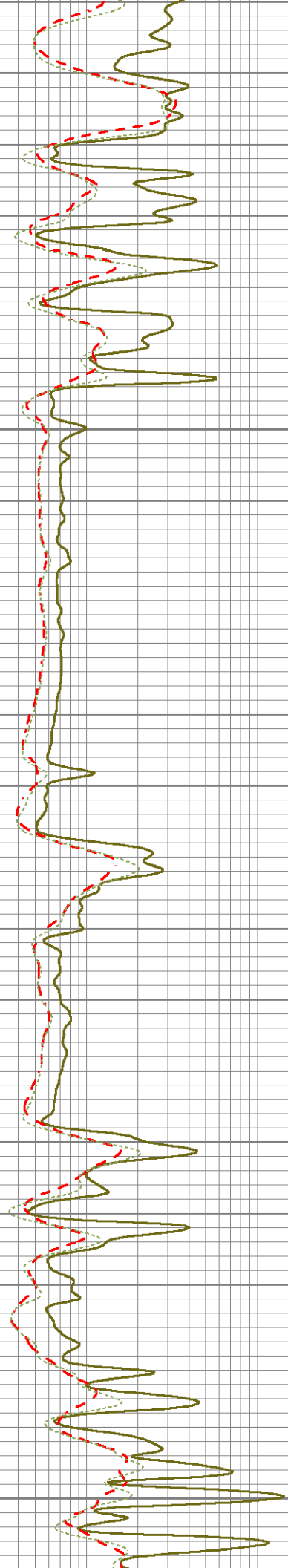
2.5

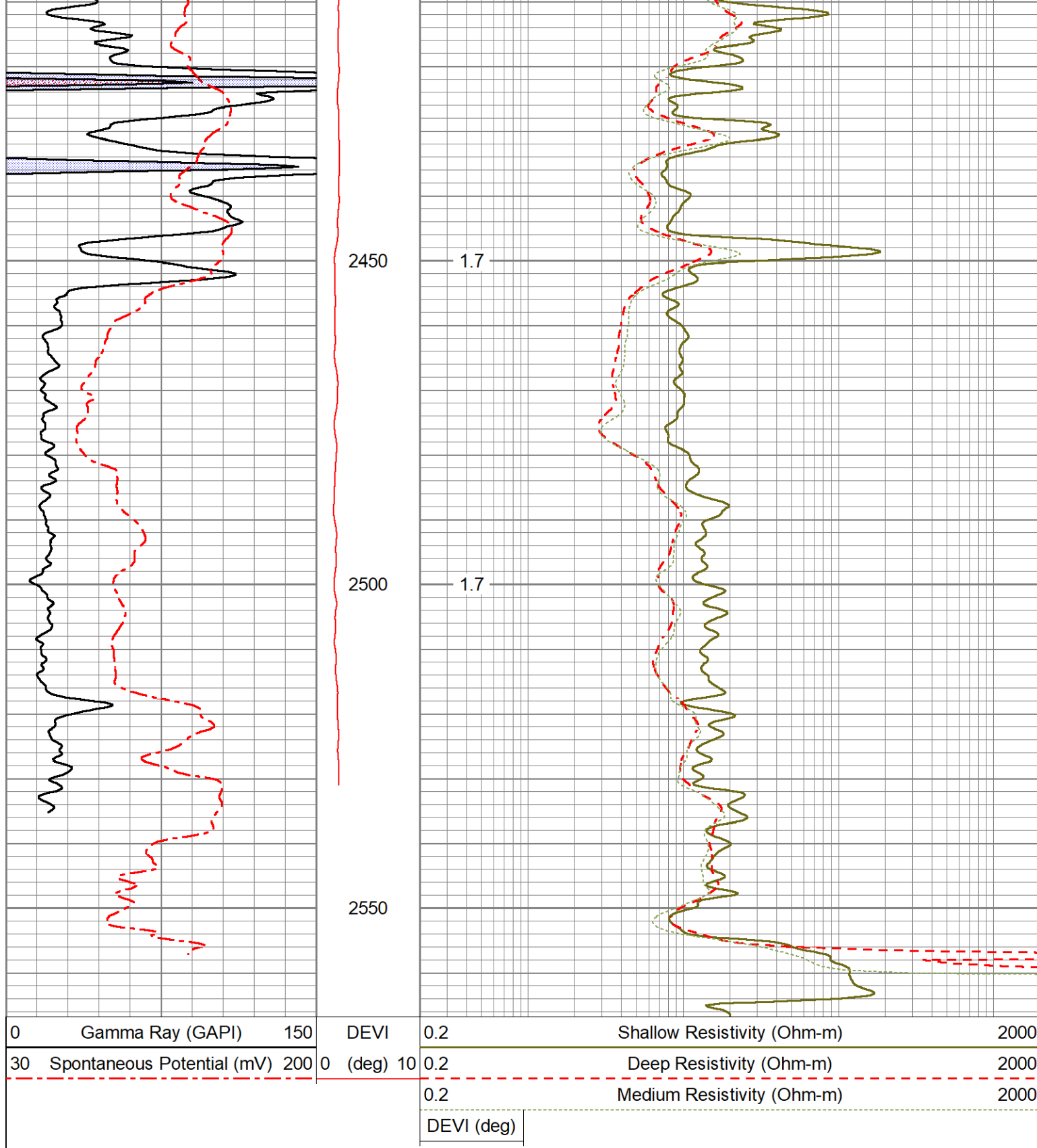
2.3

1.7

1.8

1.9





Calibration Report

Database File ow2-9043 c&g drilling.db
 Dataset Pathname pass2.2
 Dataset Creation Sat Apr 16 16:53:22 2022

Dual Induction Calibration Report

Serial-Model: 5375-G
 Surface Cal Performed: Sat Apr 16 16:07:33 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	-3.000	400.000	mmho/m	634.776	-7.394
Medium	0.010	0.728	V	-1.000	500.000	mmho/m	697.055	-7.752
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: Performed:	01-Osage Sat Mar 12 10:36:52 2022
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Readings			References			Results		
	Zero	Cal		Zero	Cal		m	b
Normal	0.0000	0.1000	V	0.0000	10.0000	Ohm-m	100.0000	0.0000
Inverse	0.0000	0.1000	V	0.0000	10.0000	Ohm-m	100.0000	0.0000
Caliper	0.3482	9.1366	V	5.5000	20.5000	in	1.7068	4.9057

Inclinometer Calibration Report

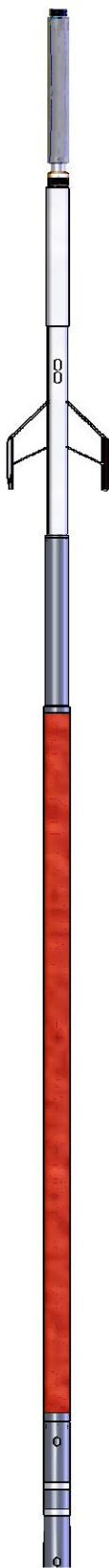
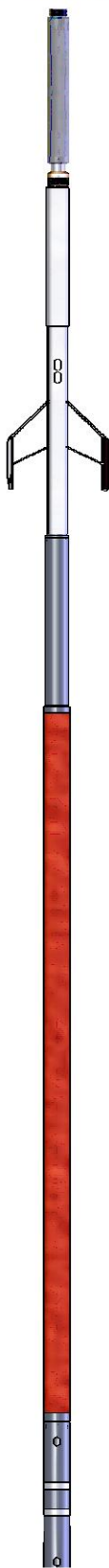
Performed:	Thu Oct 8 13:57:38 2020							
	Low Read.	High Read.		Low Ref.	High Ref.			
X Accelerometer	205.00	1843.00		-1.00	1.00	gee		
Y Accelerometer	205.00	1843.00		-1.00	1.00	gee		
Z Accelerometer						gee		

Gamma Ray Calibration Report

Serial Number:	Refurb01
Tool Model:	OSAGE 01

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		MICRO_DIG-Osage (01) Digital Microlog	7.21	5.13	137.00
PSTAT	28.54					
ASTAT	28.54					
MI	23.00					
MN	23.00					
MCAL	22.00					
ASTAT2	21.33					
SP	10.92		DIL-G (5375) Gearhart	21.33	4.00	290.00
CILD	10.92					
CILM	7.00					
RLL3	1.65					
TR_Mon	0.00					

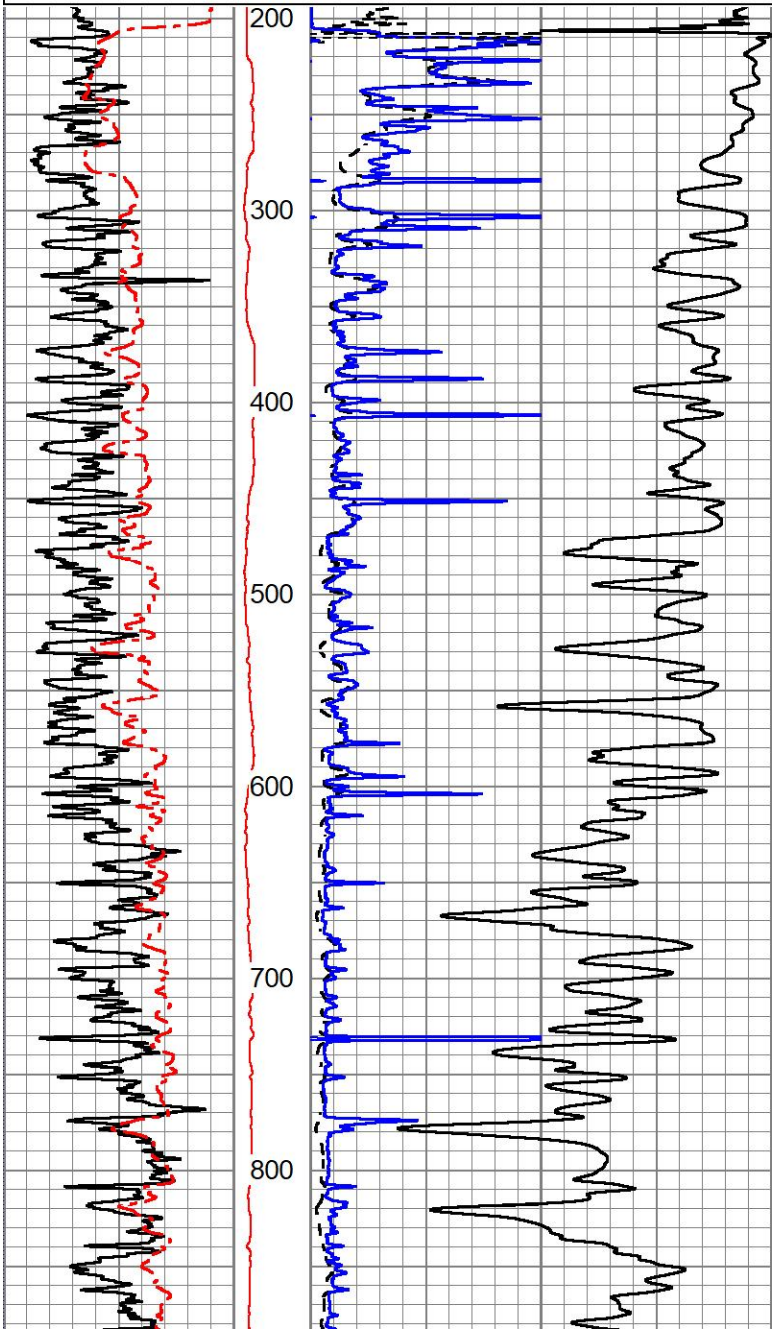
Dataset: ow2-9043 c&g drilling.db: hole.wellrun/pass2.4
Total length: 32.23 ft
Total weight: 480.00 lb
O.D.: 5.13 in

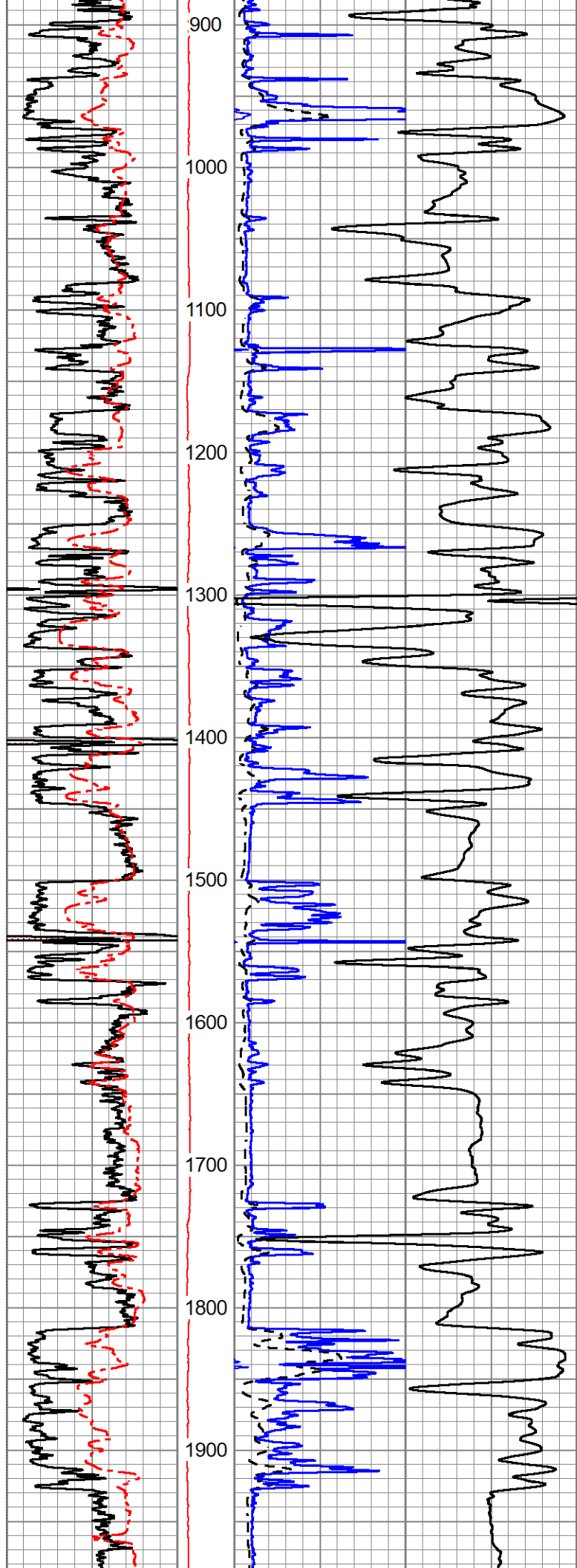


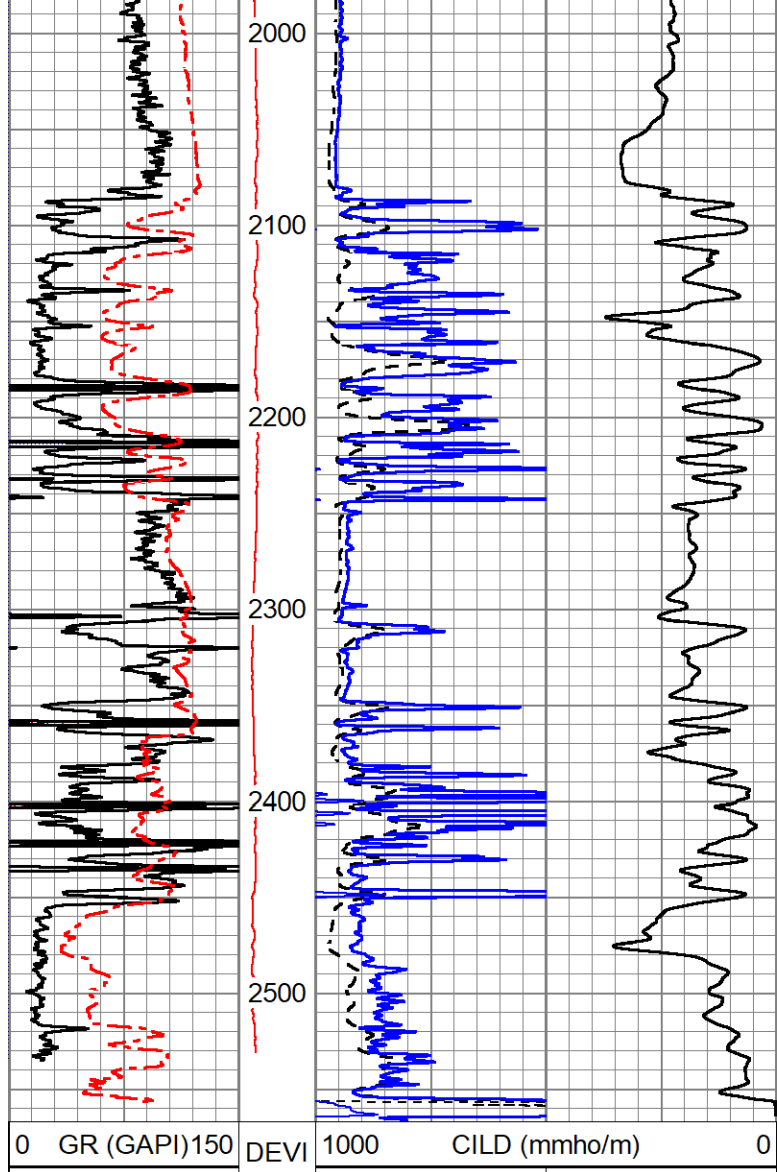
1" DIL INDUCTION LOG

Database File ow2-9043 c&g drilling.db
Dataset Pathname pass2.4
Presentation Format st_dil_1inch_6-16
Dataset Creation Sat Apr 16 16:54:18 2022
Charted by Depth in Feet scaled 1:1200

0	GR (GAPI)150	DEVI	1000	CILD (mmho/m)	0
30	SP (mV) 200	(deg)			
		0 10	RILD		
			0 (Ohm-m) 50		
			RLL3		
			0 (Ohm-m) 50		







0	GR (GAPI)	150	DEVI	1000	CILD (mmho/m)	0
30	SP (mV)	200	(deg)	RILD		
			0 10	0 (Ohm-m)	50	
				RLL3		
				0 (Ohm-m)	50	