

COMPANY	NAVEX RESOURCES LLC									
WELL	PFAFFLY #1-12									
FIELD	NORTH CHEYENNE PROJECT/ PFAFFLY PROSPECT									
COUNTY	KIT CARSON									
STATE	COLORADO									
LOCATION	1602' FSL & 1269' FWL									
SEC 12	TWP 11S	RGE 46W	Other Services		NEUTRON					
Latitude	39.1037632		PHOTO-DENSITY		MICRO LOG					
Longitude	-102.5167609		COMPENSATED SONIC							
API Number	05-063-06363									
Permanent Datum GL, Elevation 4466.9 feet					Elevations:		feet			
Log Measured From KB, 12.10 feet above Permanent Datum					KB		4479.00			
Drilling Measured From KB					DF		4479.00			
					GL		4466.90			
Date	26-MAY-2023									
Run Number	ONE									
Service Order	T1-230526WFT									
Depth Driller	6076.00		feet							
Depth Logger	6082.00		feet							
First Reading	6078.00		feet							
Last Reading	648.00		feet							
Casing Driller	651.00		feet							
Casing Logger	648.00		feet							
Bit Size	7.875		inches							
Hole Fluid Type	WBM									
Density / Viscosity	9.10		lb/USg		63.00		sec/qt			
PH / Fluid Loss	10.00				8.00		ml/30Min			
Sample Source	FLOWLINE									
Rm @ Measured Temp	0.71 @ 86.0		ohm-m							
Rmf @ Measured Temp	0.61 @ 86.0		ohm-m							
Rmc @ Measured Temp	1.01 @ 86.0		ohm-m							
Source Rmf / Rmc	CALC		CALC							
Rm @ BHT	0.36 @154.0		ohm-m							
Time Since Circulation	8 HRS									
Max Recorded Temp	154.00		deg F							
Equipment / Base	10001		OKC							
Recorded By	B. GRAHMANN									
Witnessed By	CRAIG ADAMS									
Rig Name	DUKE #9									

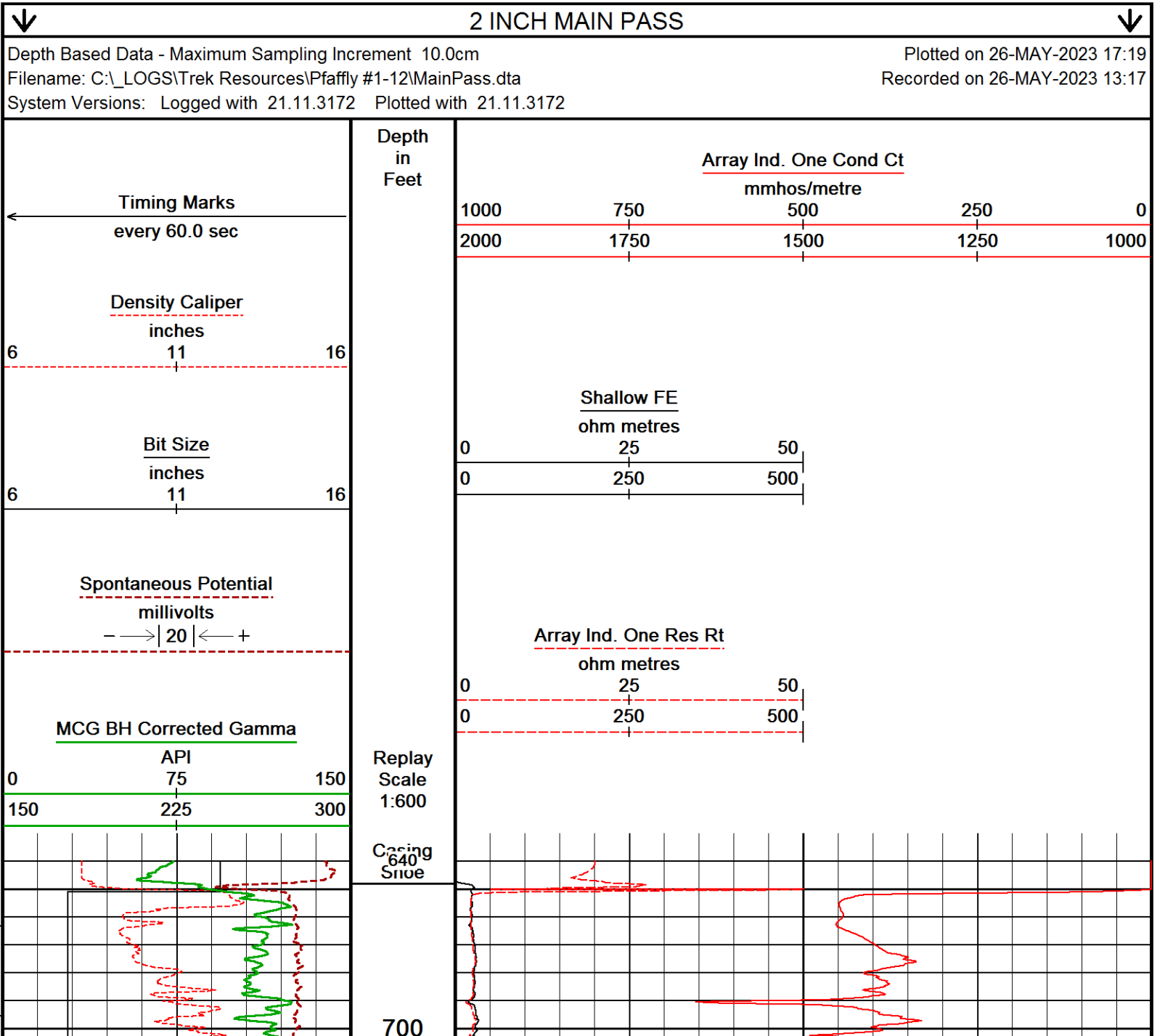
BOREHOLE RECORD					Last Edited: 26-MAY-2023 11:08
Bit Size inches		Depth From feet		Depth To feet	
12.250		0.00		651.00	
7.875		651.00		6076.00	
CASING RECORD					
Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft	
SURFACE	8.625	0.00	651.00	36.00	

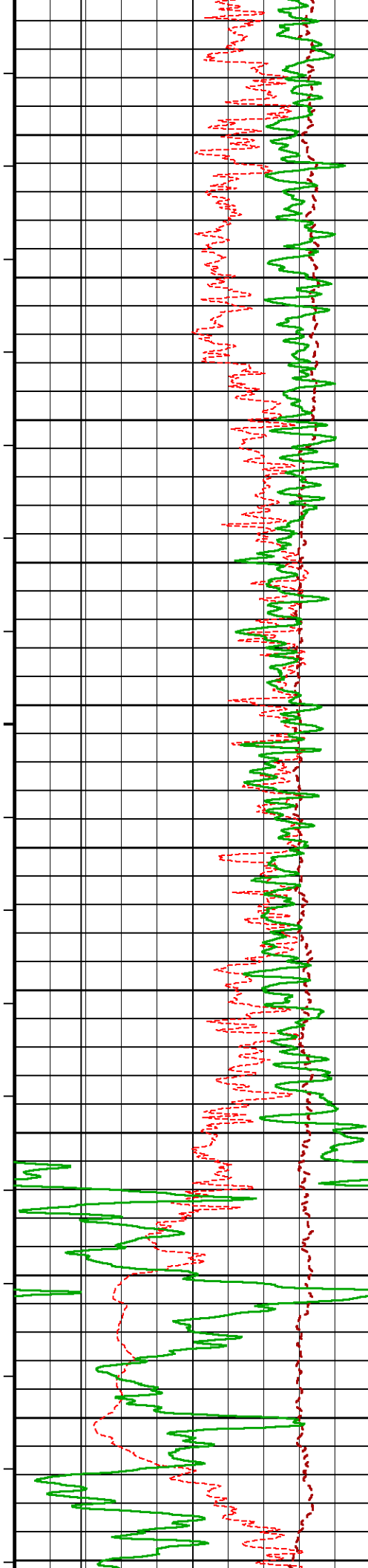
REMARKS
WWLS VERSION 21.11
- TOOLSTRING: RUN 1 : MAI, MSS, MFE, SKJ, MVC, MPD, MDN, MMR, MCG, SHA, MTA, CBHC
- HARDWARE USED: MAI: 1" STANDOFF MFE: 1" STANDOFF MSS: 1" STANDOFFS MDN: DUAL ECCENTERED BOWSPRING
- 2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.
- ANNULAR HOLE VOLUME WITH 5.5 INCH PRODUCTION CASING FROM TD TO SURFACE CASING

- CREW
J. WILLIS, D. STEELE

In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will give the Company the benefit of the Contractor's best judgment based on its experience and will perform all such Work in a good and workmanlike manner. Any interpretation of test or other data, and any recommendation or reservoir description based upon such interpretations, are opinions based upon inferences from measurements and empirical relationships and assumptions, which inferences and assumptions are not infallible, and with respect to which professional engineers and analysts may differ. ACCORDINGLY ANY INTERPRETATION OR RECOMMENDATION RESULTING FROM THE SERVICES WILL BE AT THE SOLE RISK OF THE COMPANY, AND THE CONTRACTOR CANNOT AND DOES NOT WARRANT THE ACCURACY, CORRECTNESS OR COMPLETENESS OF ANY SUCH INTERPRETATION OR RECOMMENDATION, WHICH INTERPRETATIONS AND RECOMMENDATIONS SHOULD NOT, THEREFORE, UNDER ANY CIRCUMSTANCES BE RELIED UPON AS THE SOLE OR MAIN BASIS FOR ANY DRILLING, COMPLETION, WELL TREATMENT, PRODUCTION OR FINANCIAL DECISION, OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING ACTIVITY, DRILLING RIG OR ITS CREW OR ANY OTHER INDIVIDUAL. THE COMPANY HAS FULL RESPONSIBILITY FOR ALL DECISIONS CONCERNING THE SERVICES.

Powered by Weatherford tools, acquisition systems, and software





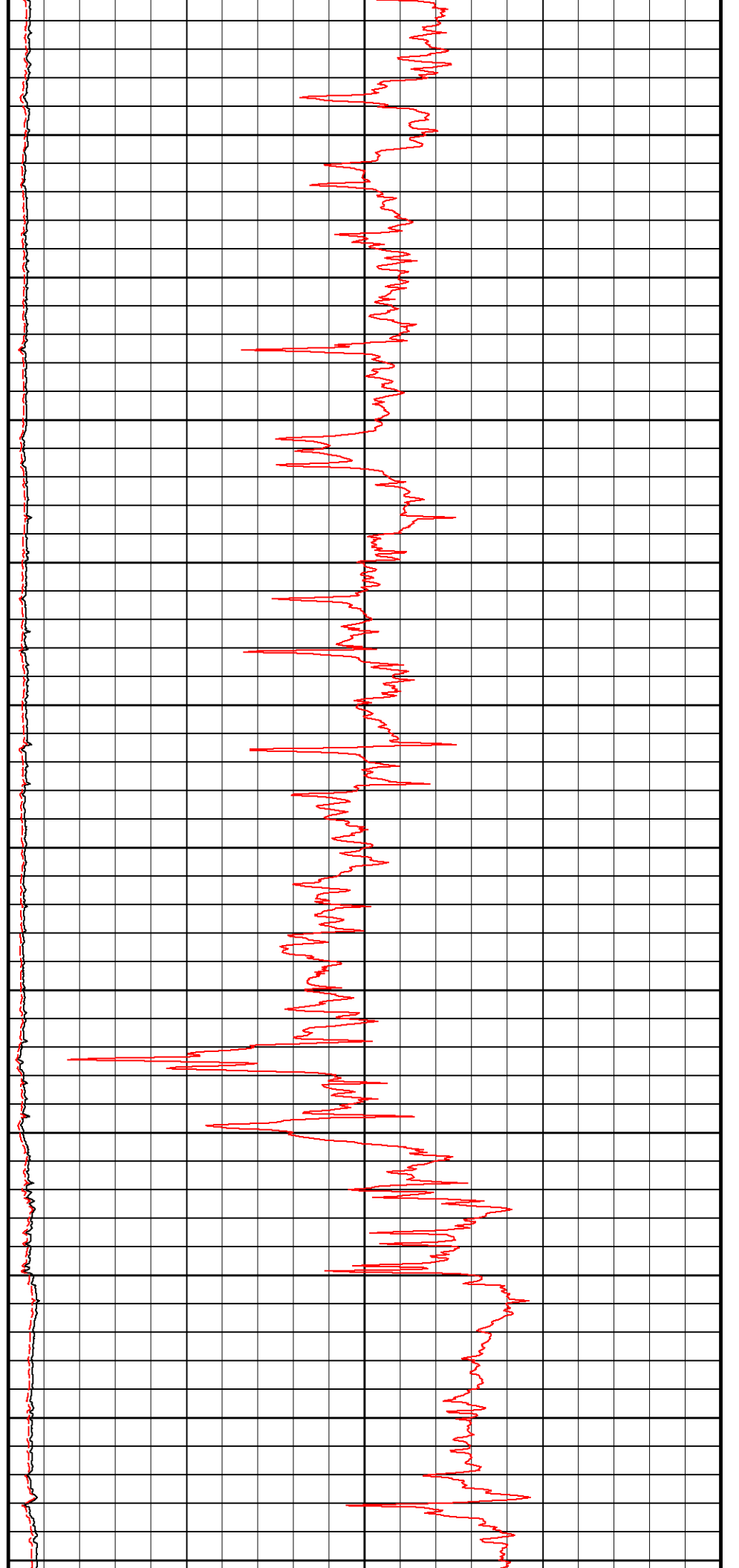
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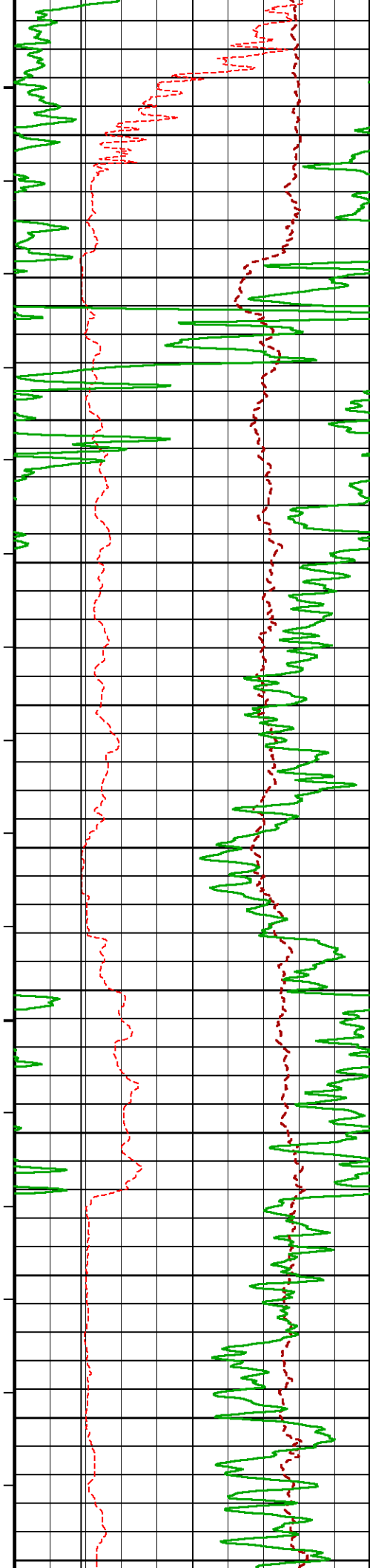
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1000

1100

1200





1300

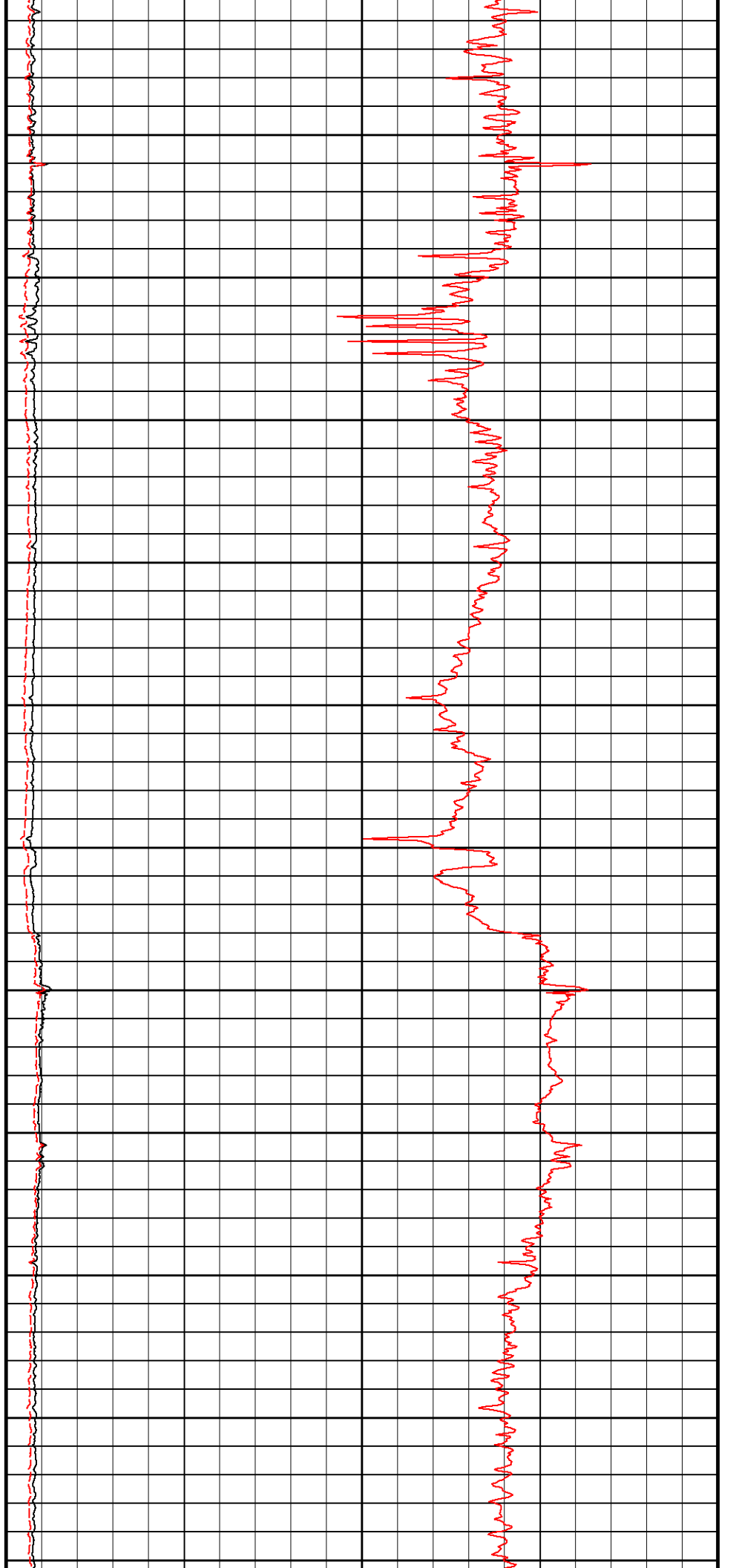
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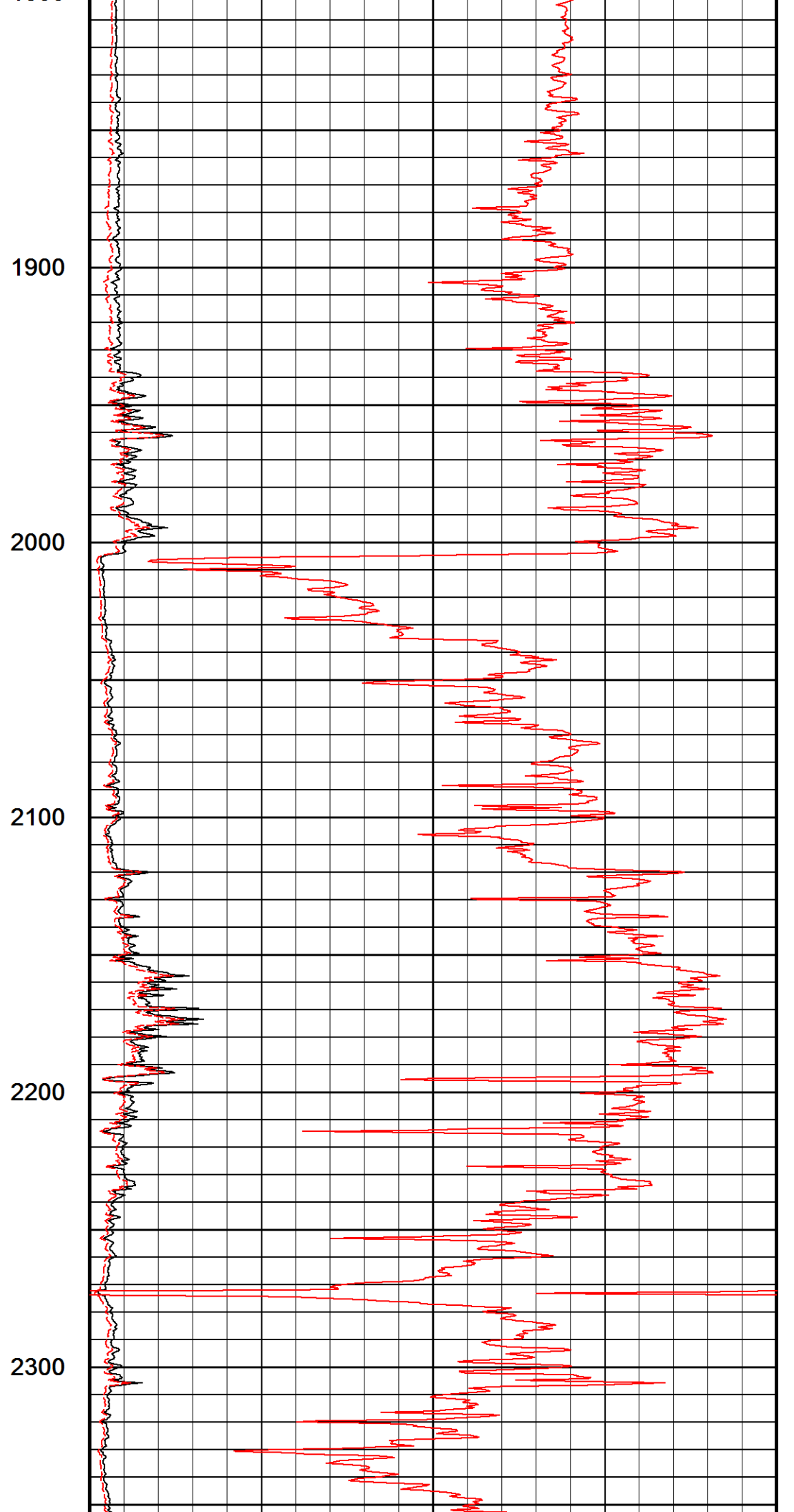
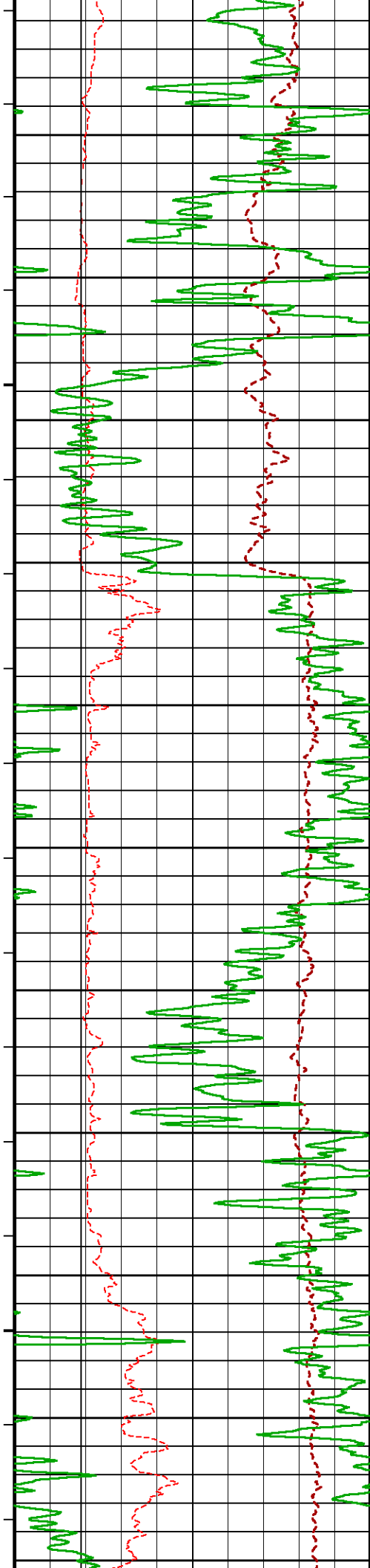
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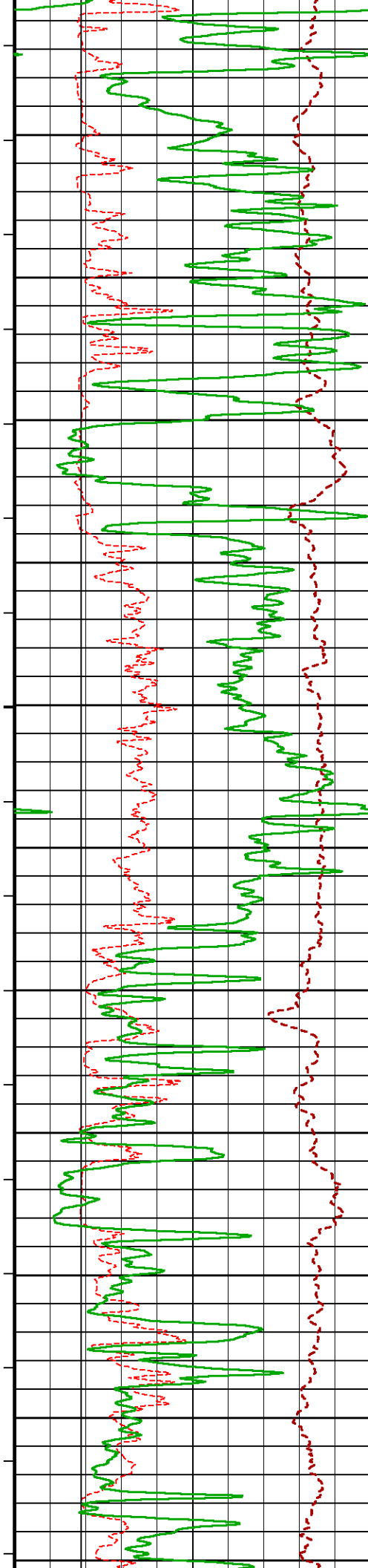
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1700

1800







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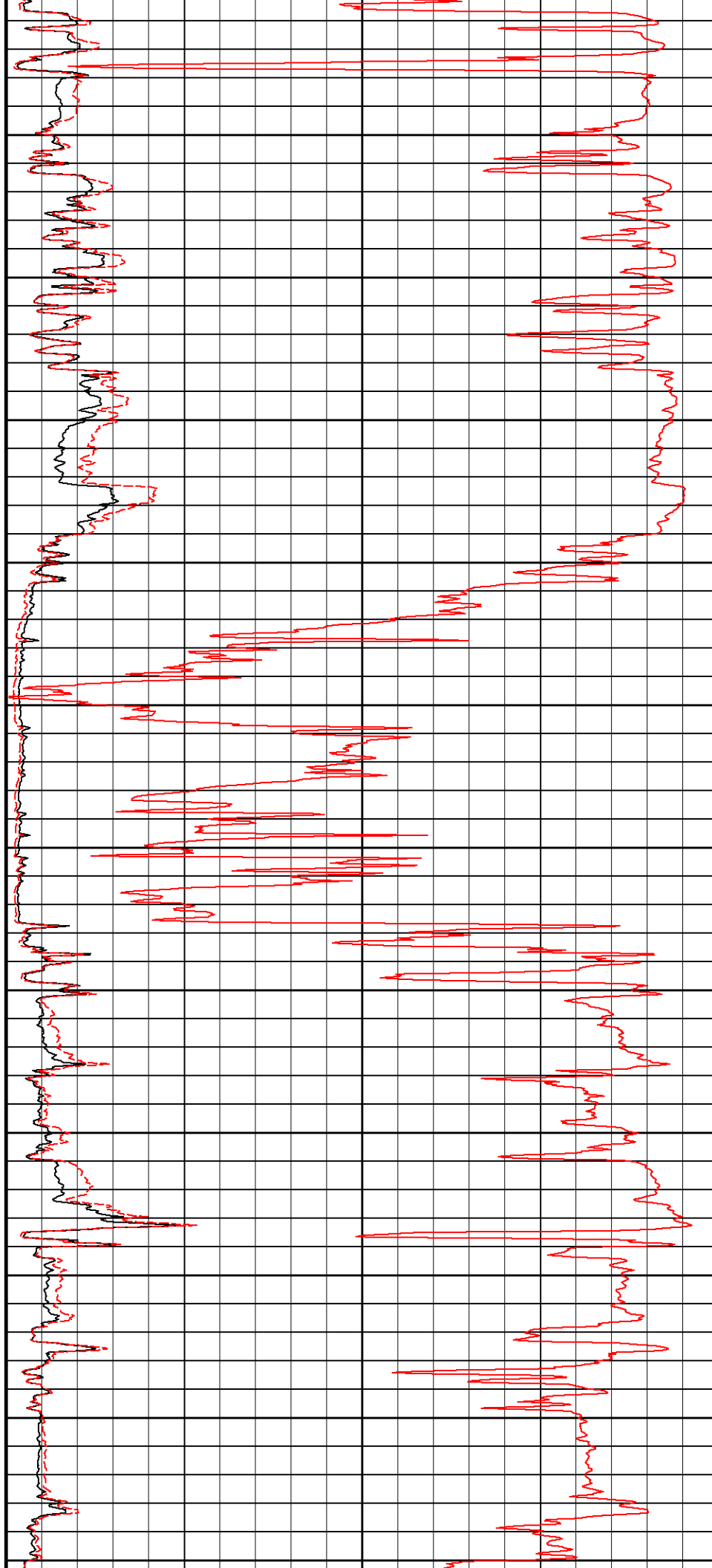
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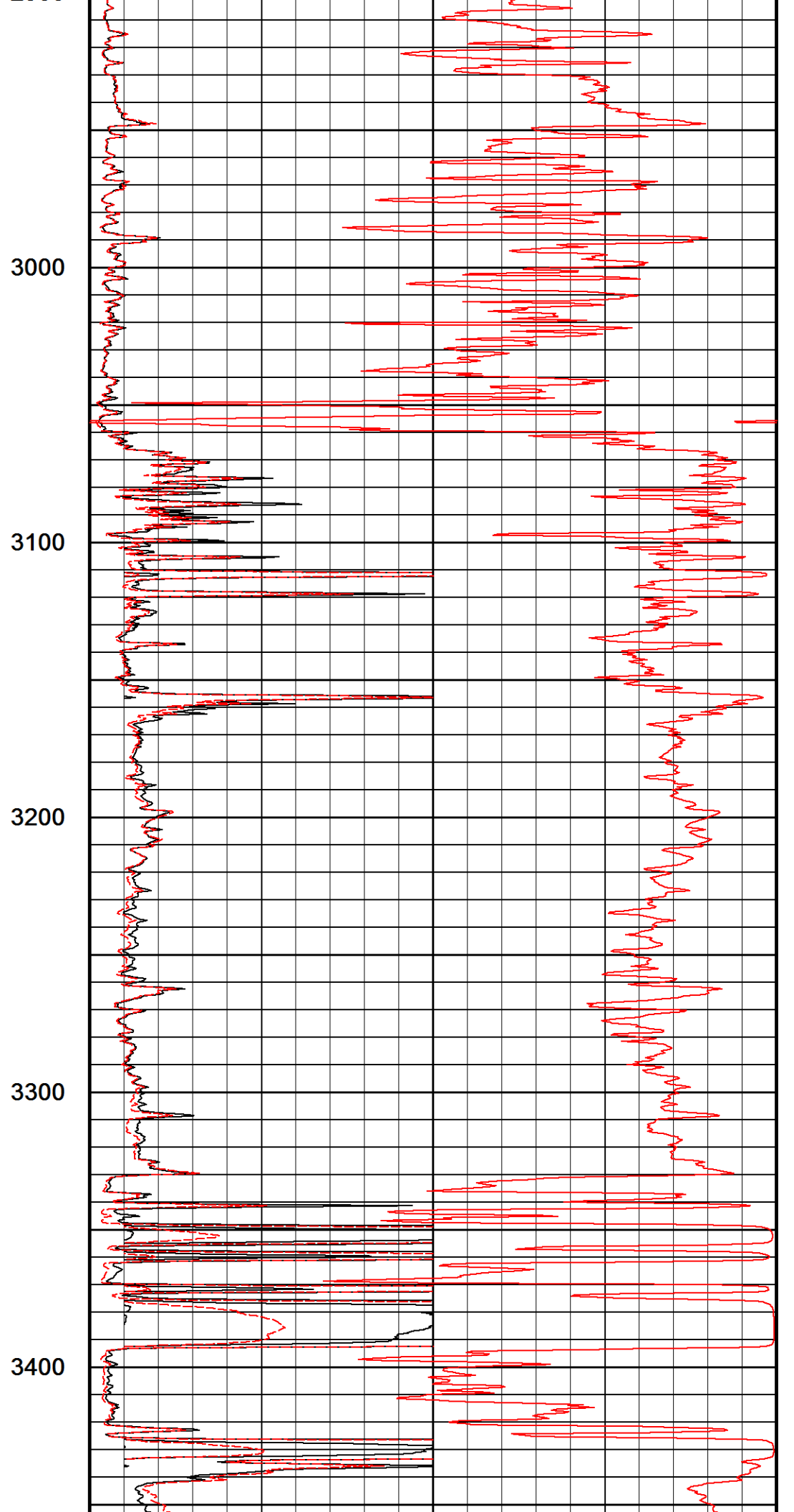
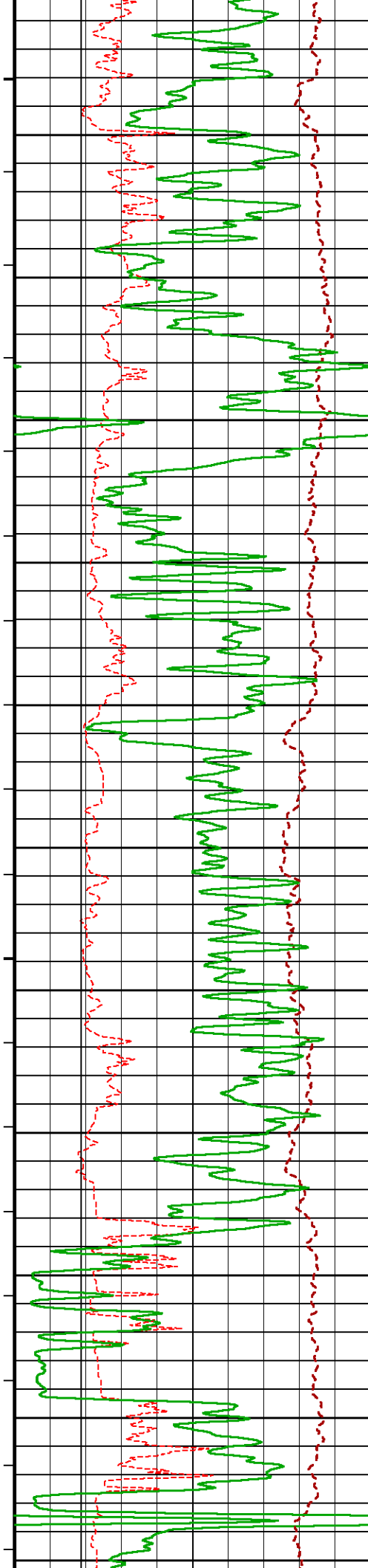
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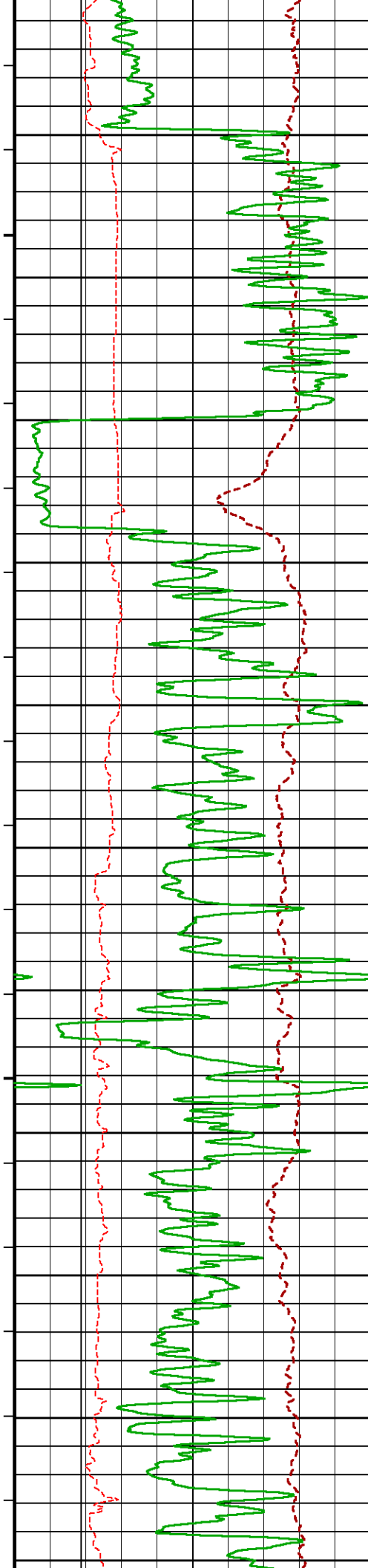
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2900







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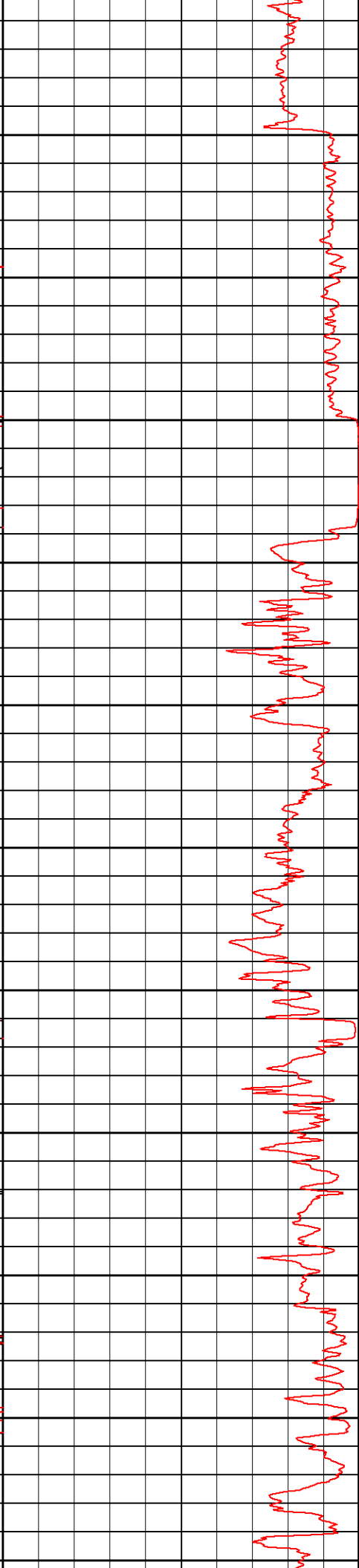
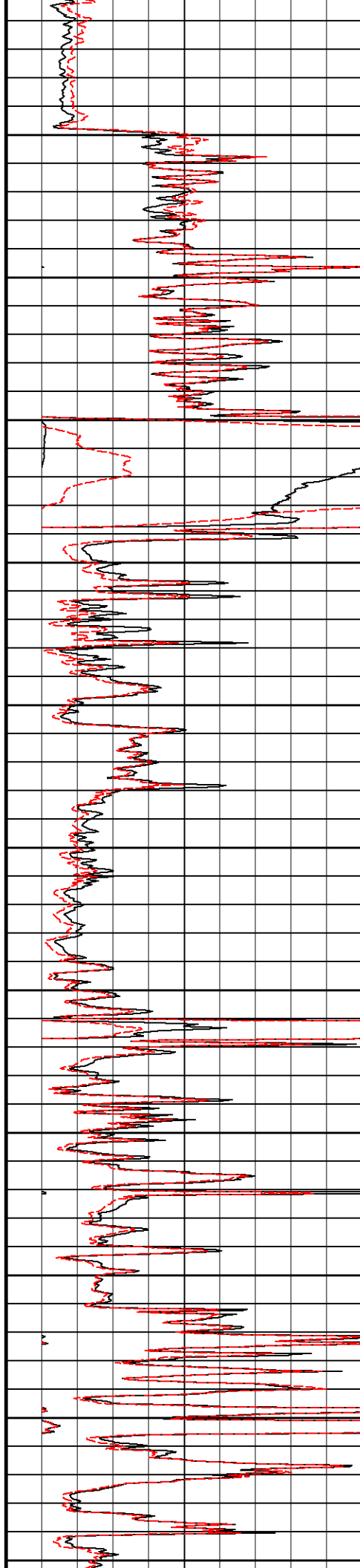
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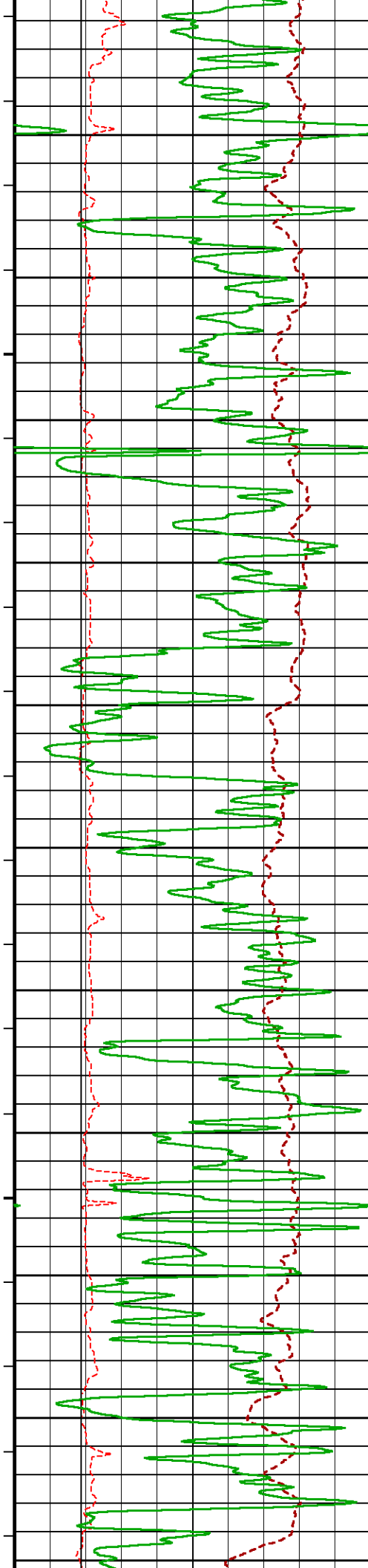
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3900

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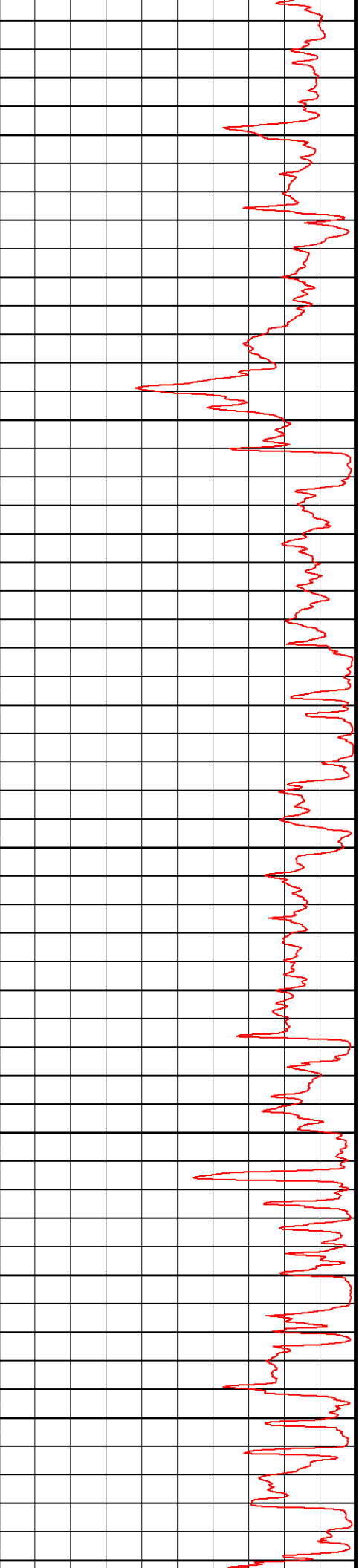
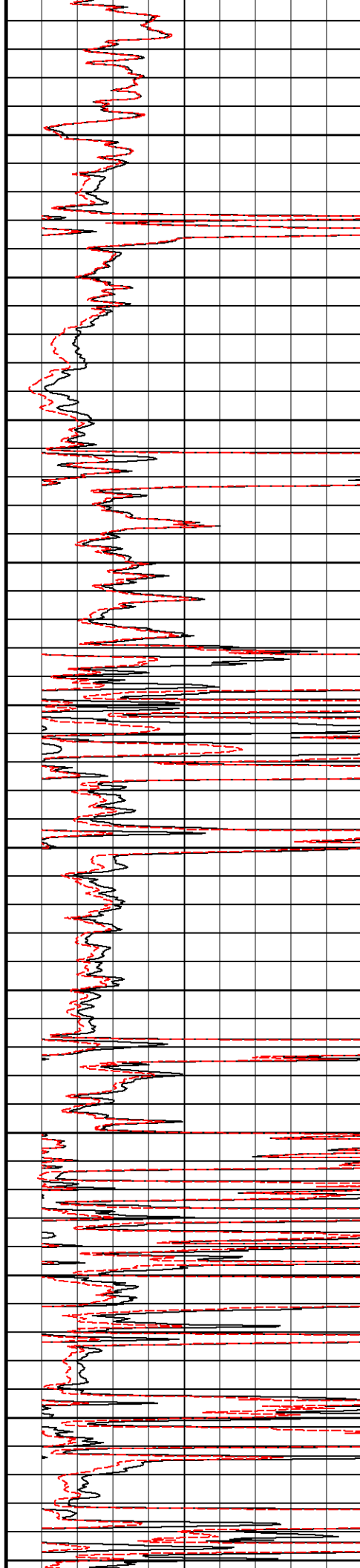
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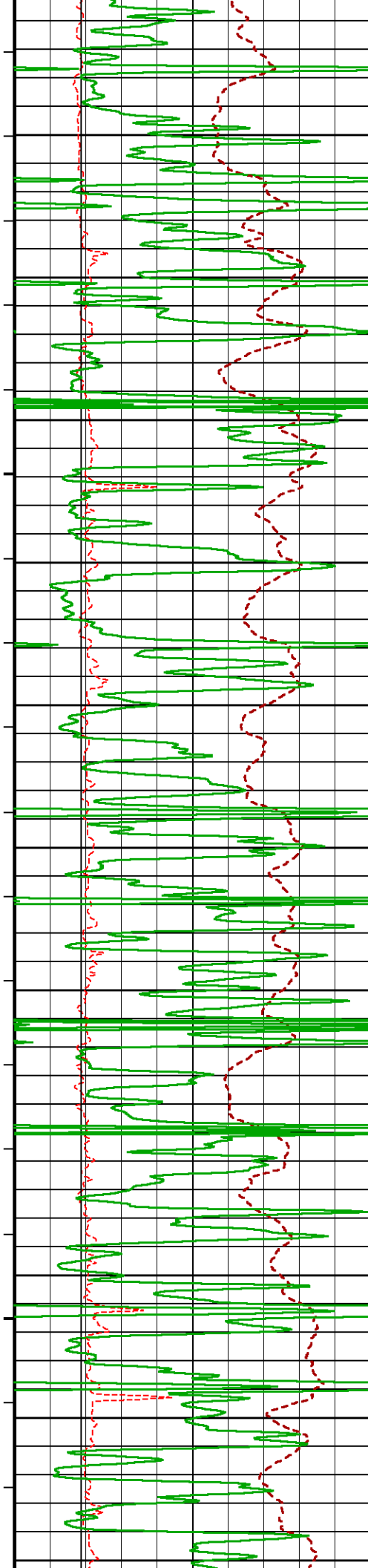
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4300

4400

4500





4600

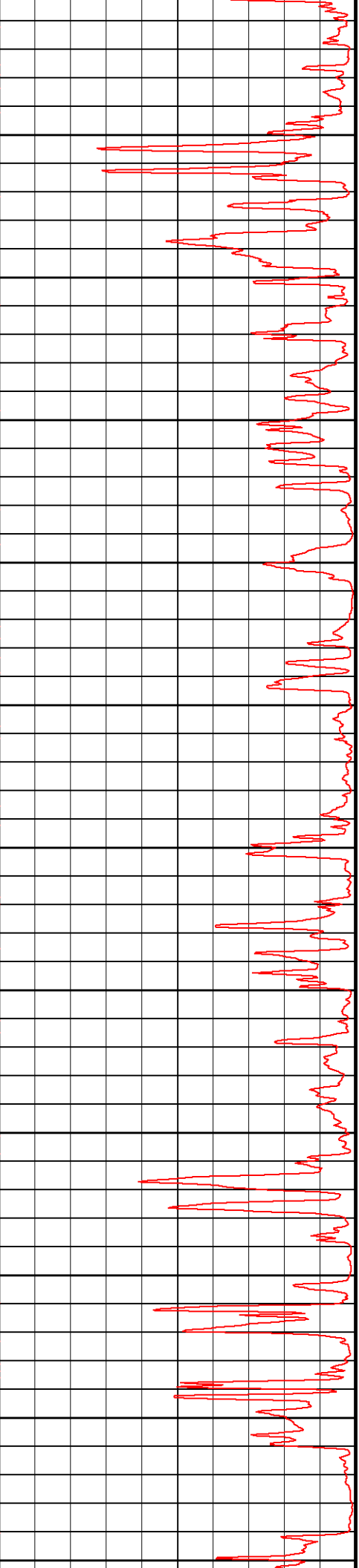
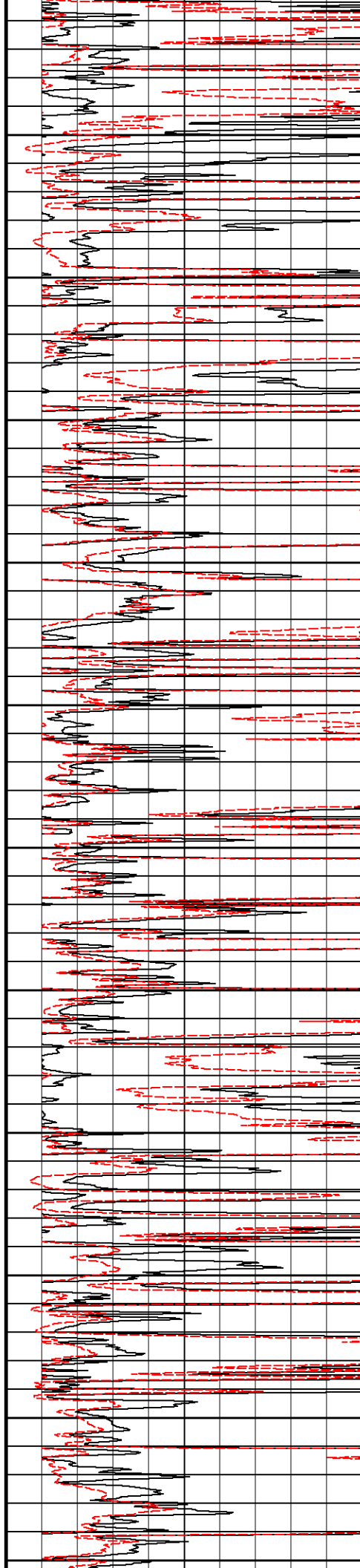
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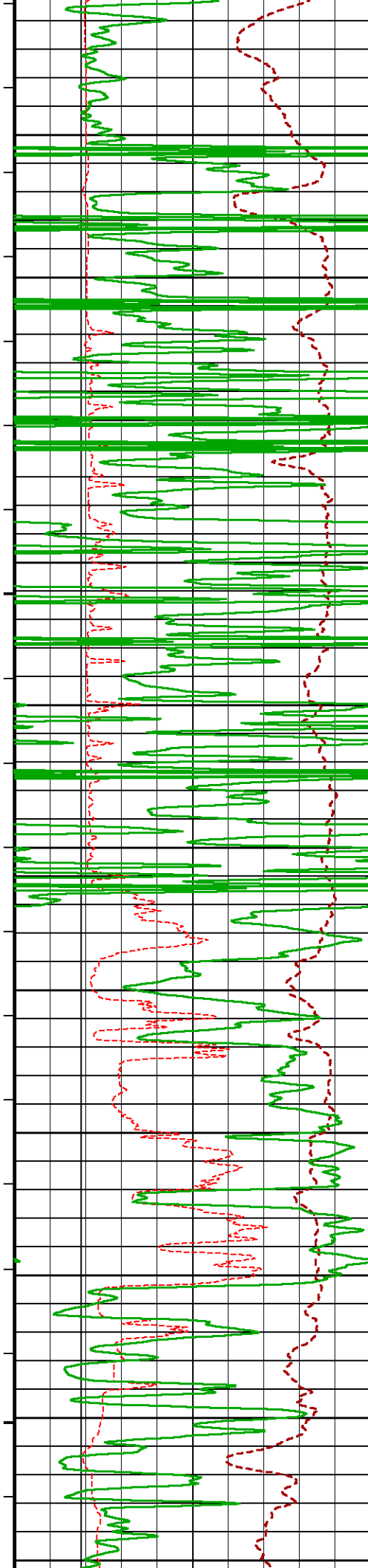
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4900

5000

5100





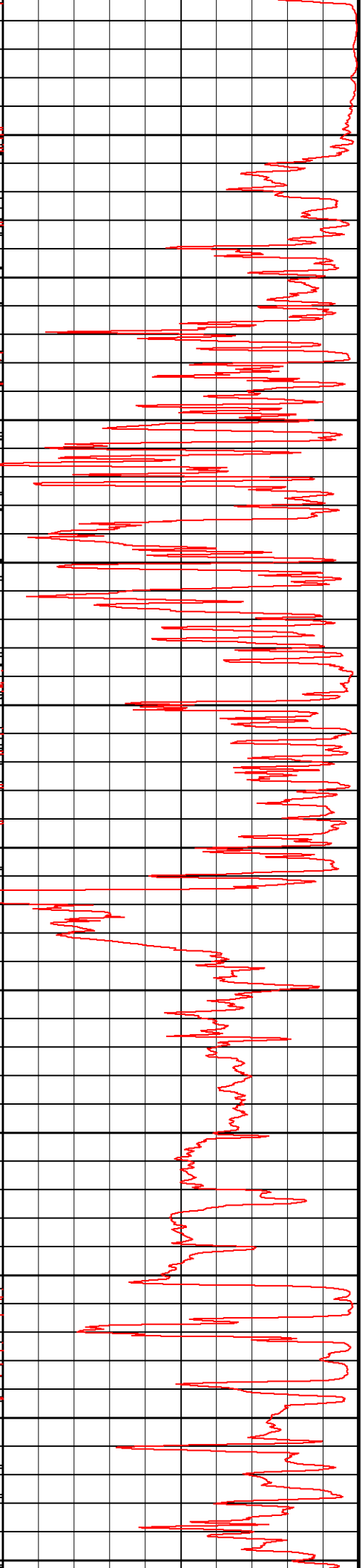
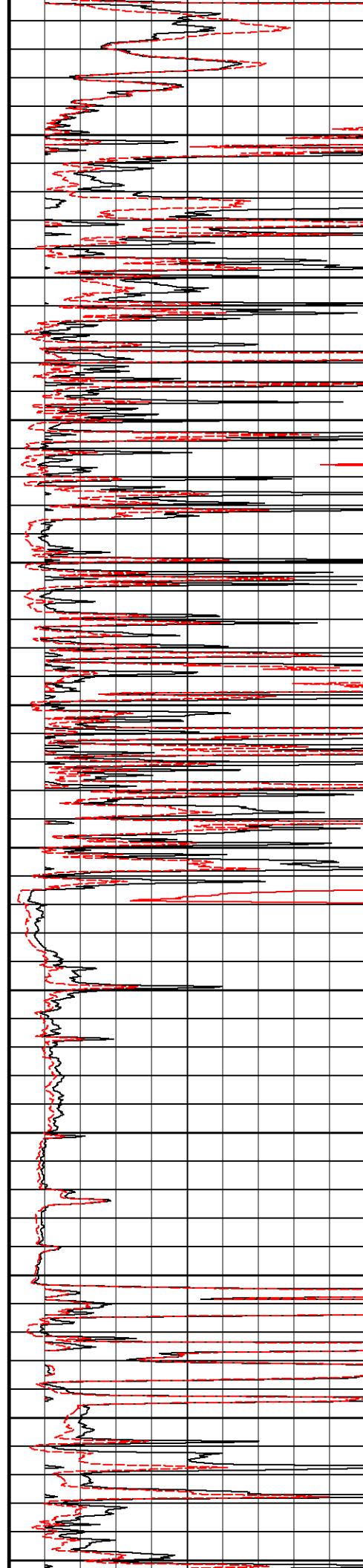
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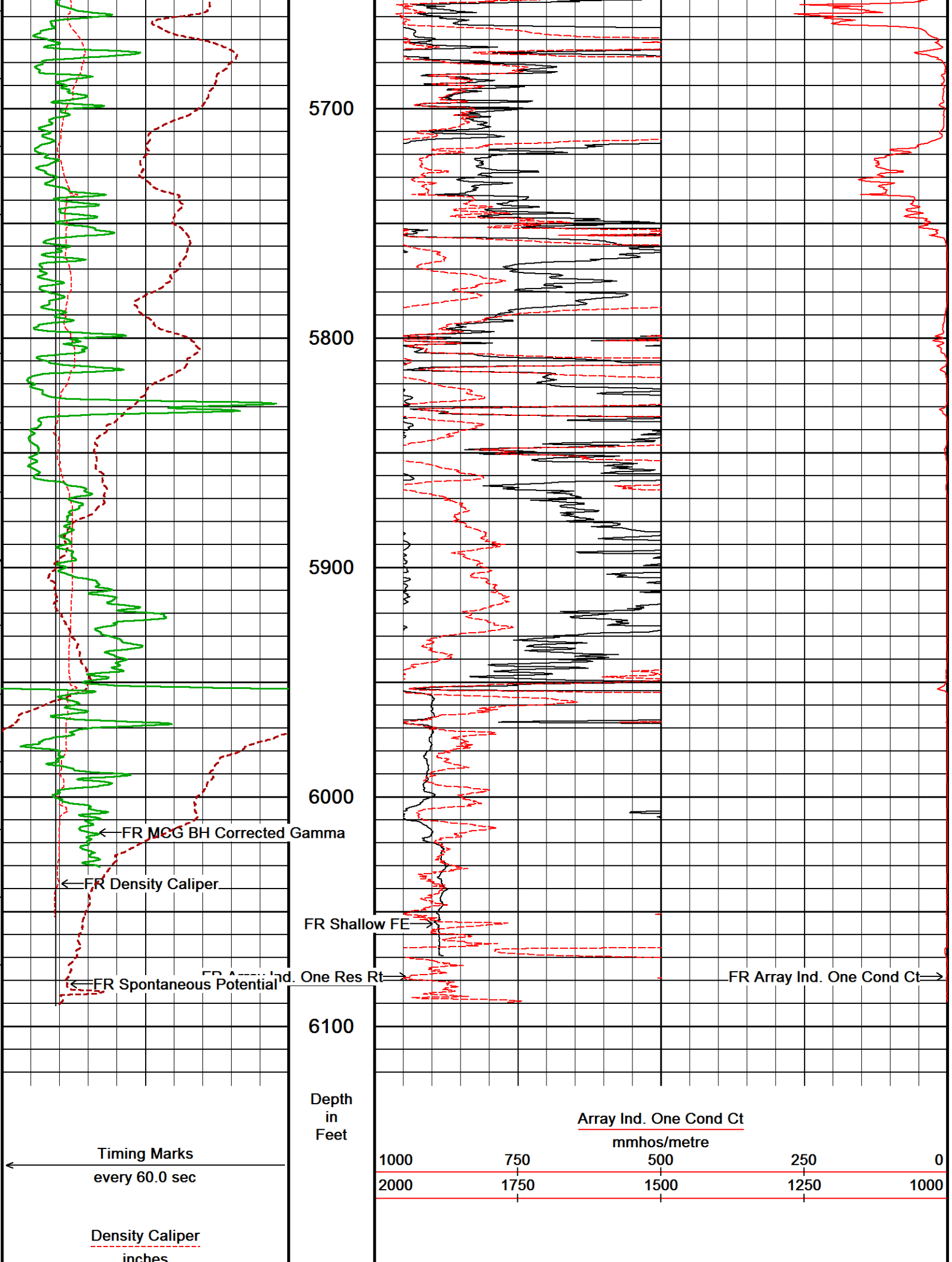
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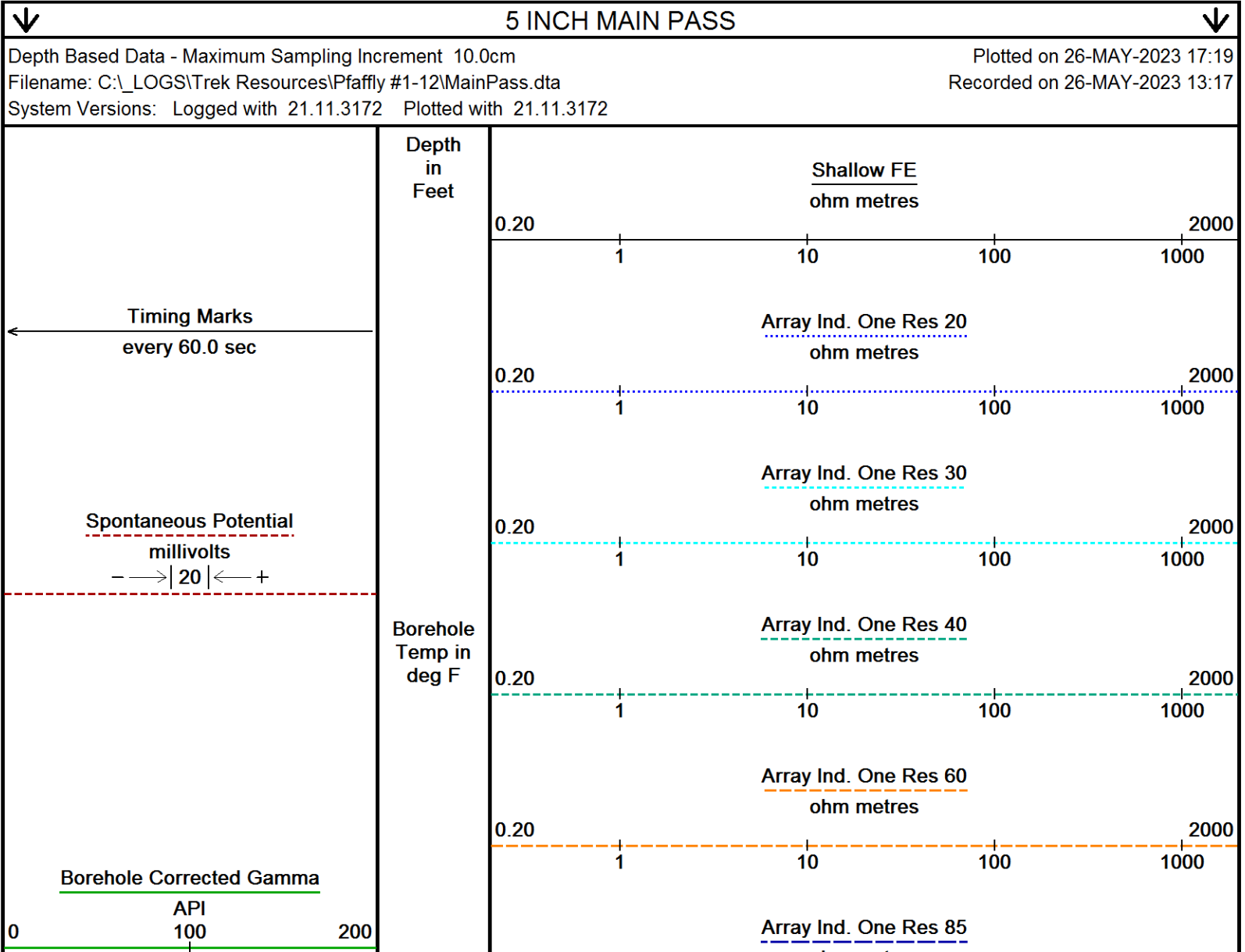
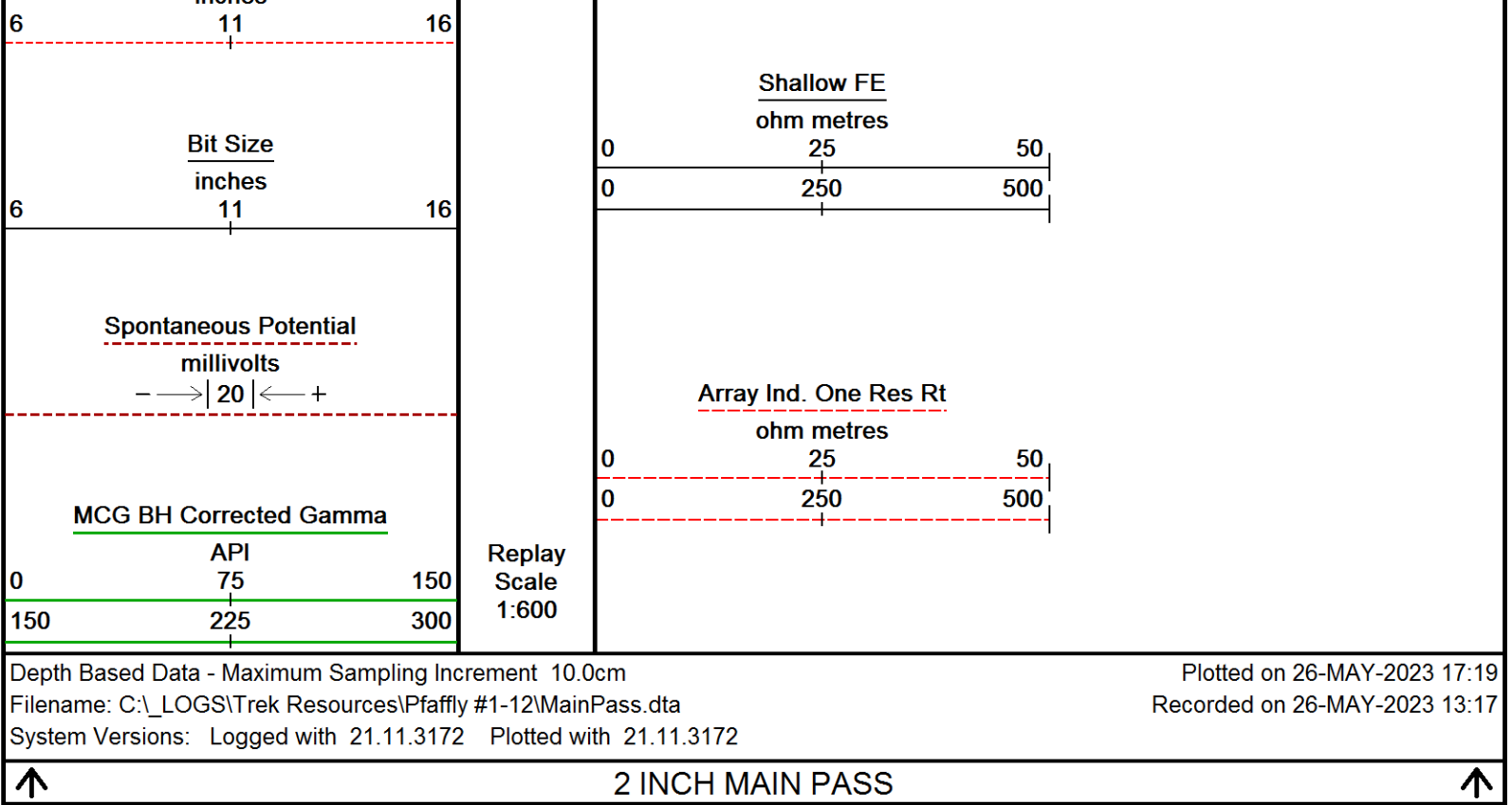
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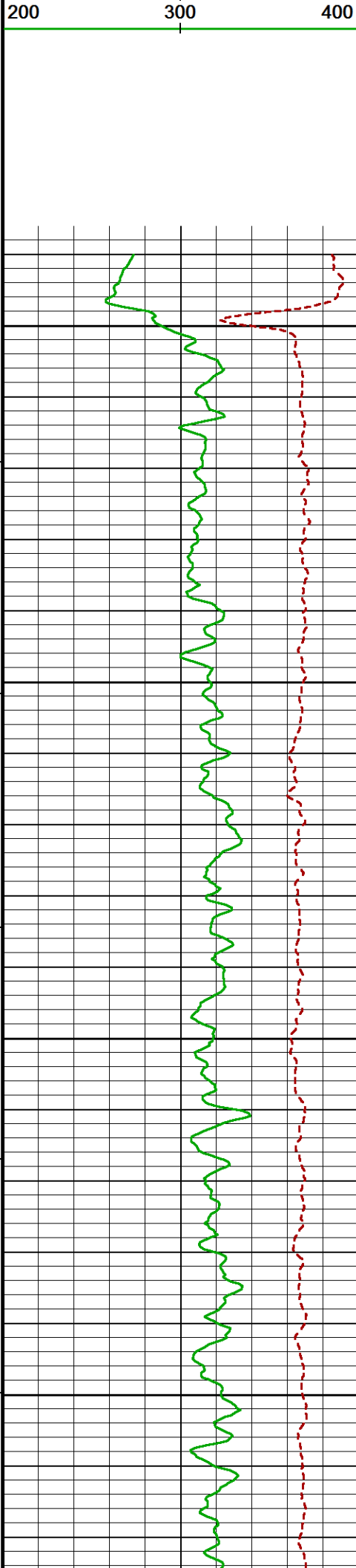
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5600









Replay
Scale
1:240

638

Casing
Shoe

650

109°

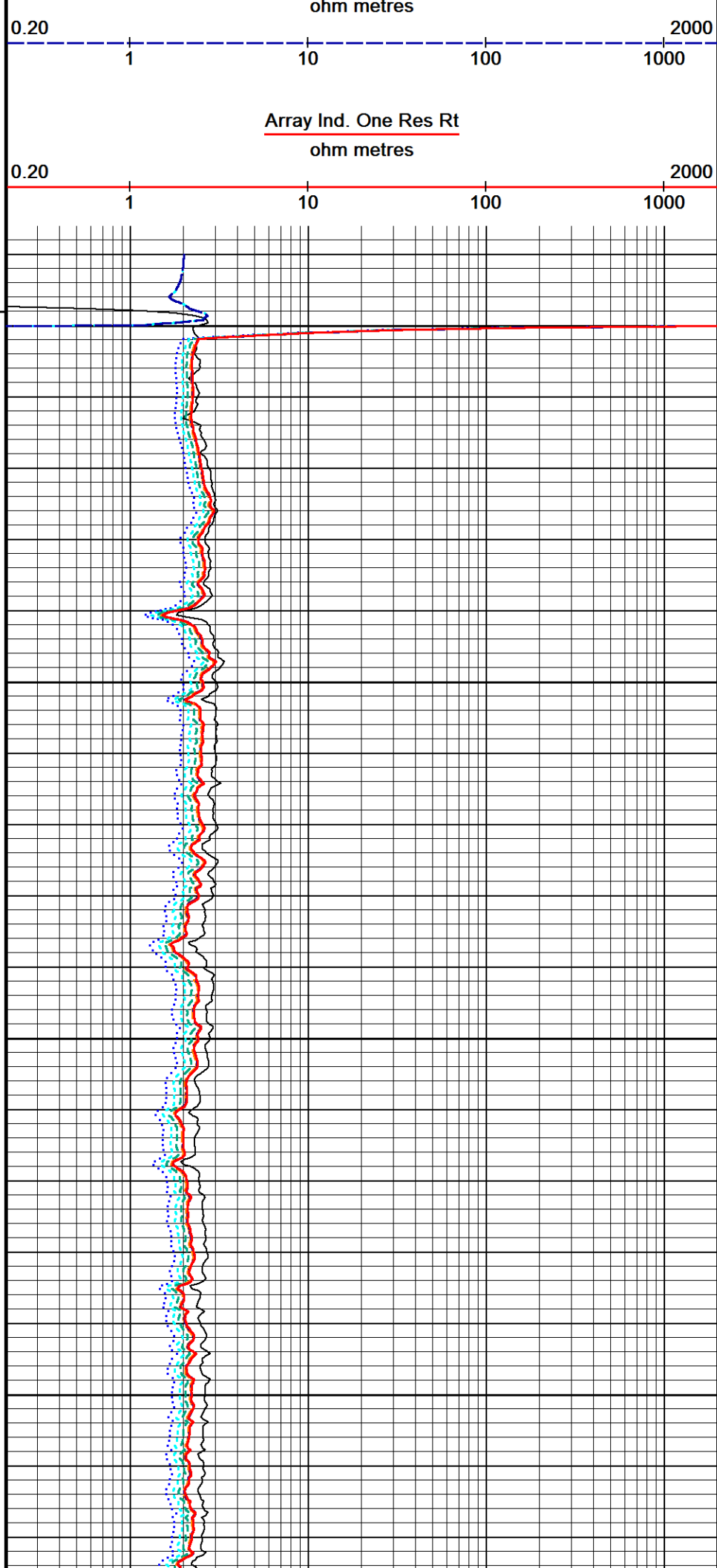
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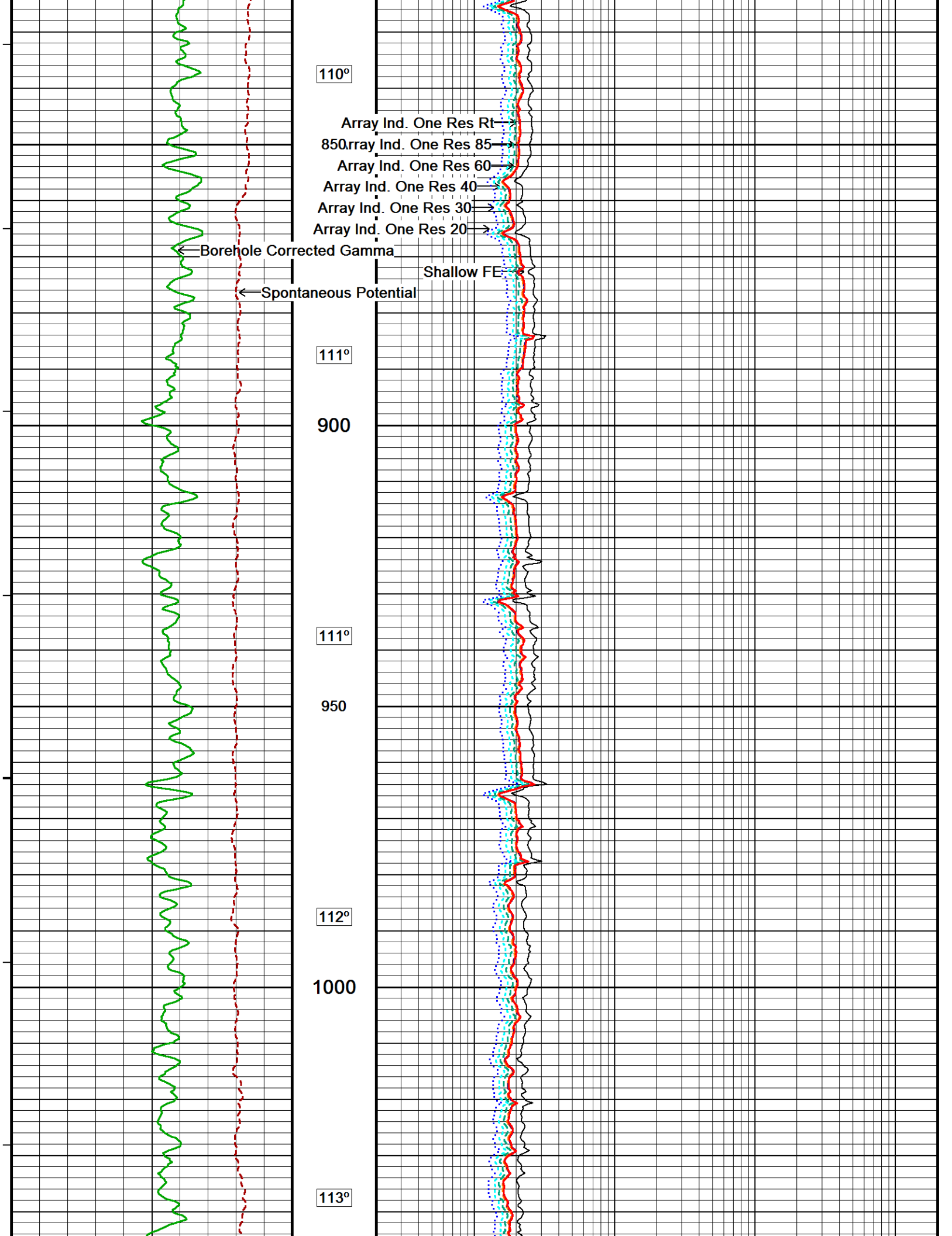
109°

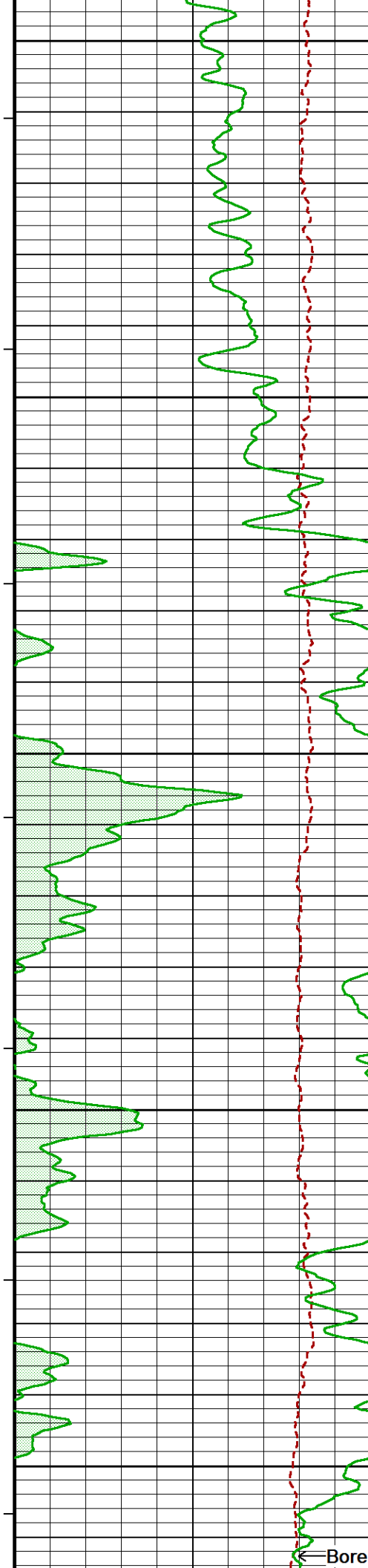
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110°

800







1050

1130

1100

1140

1150

1140

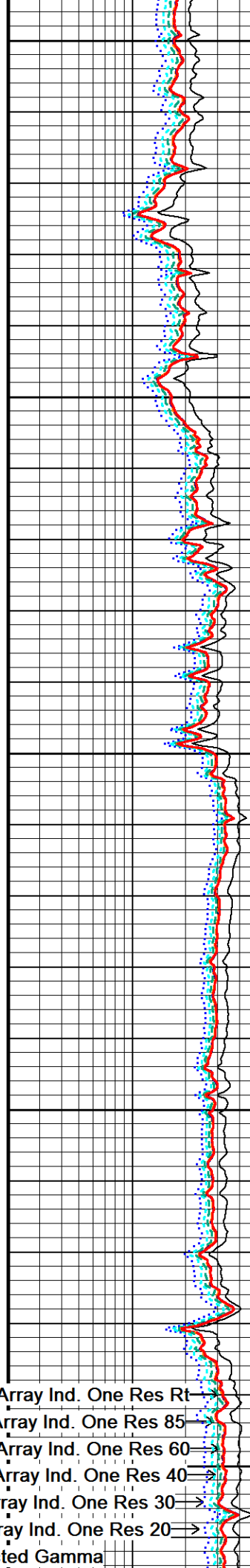
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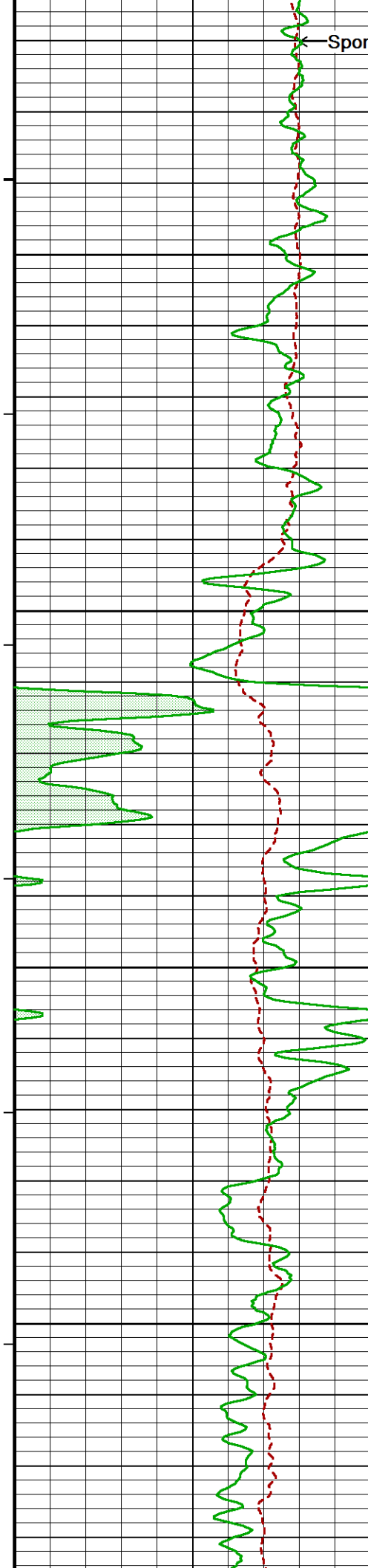
1150

1250

Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20

Borehole Corrected Gamma





Spontaneous Potential

115°

1300

115°

1350

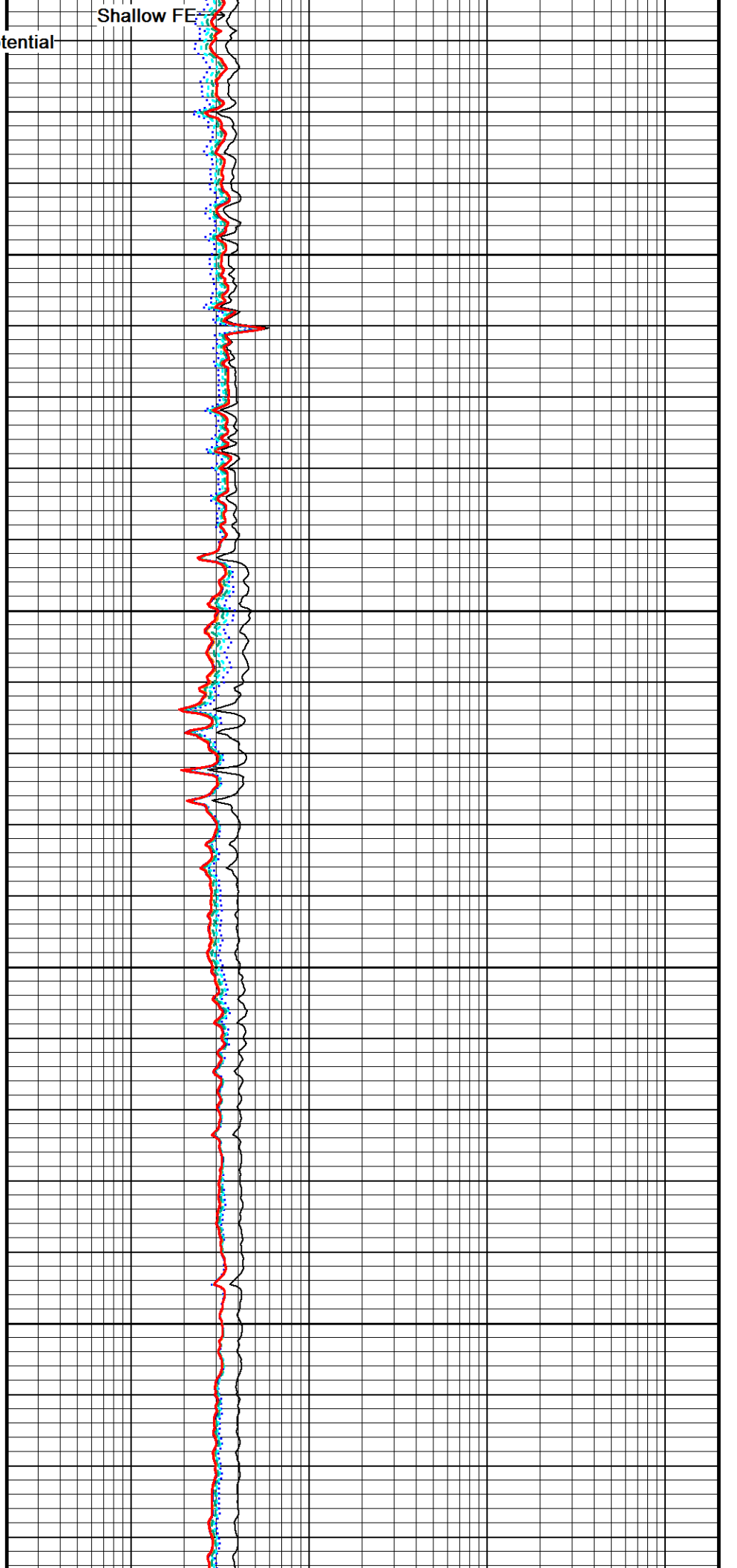
116°

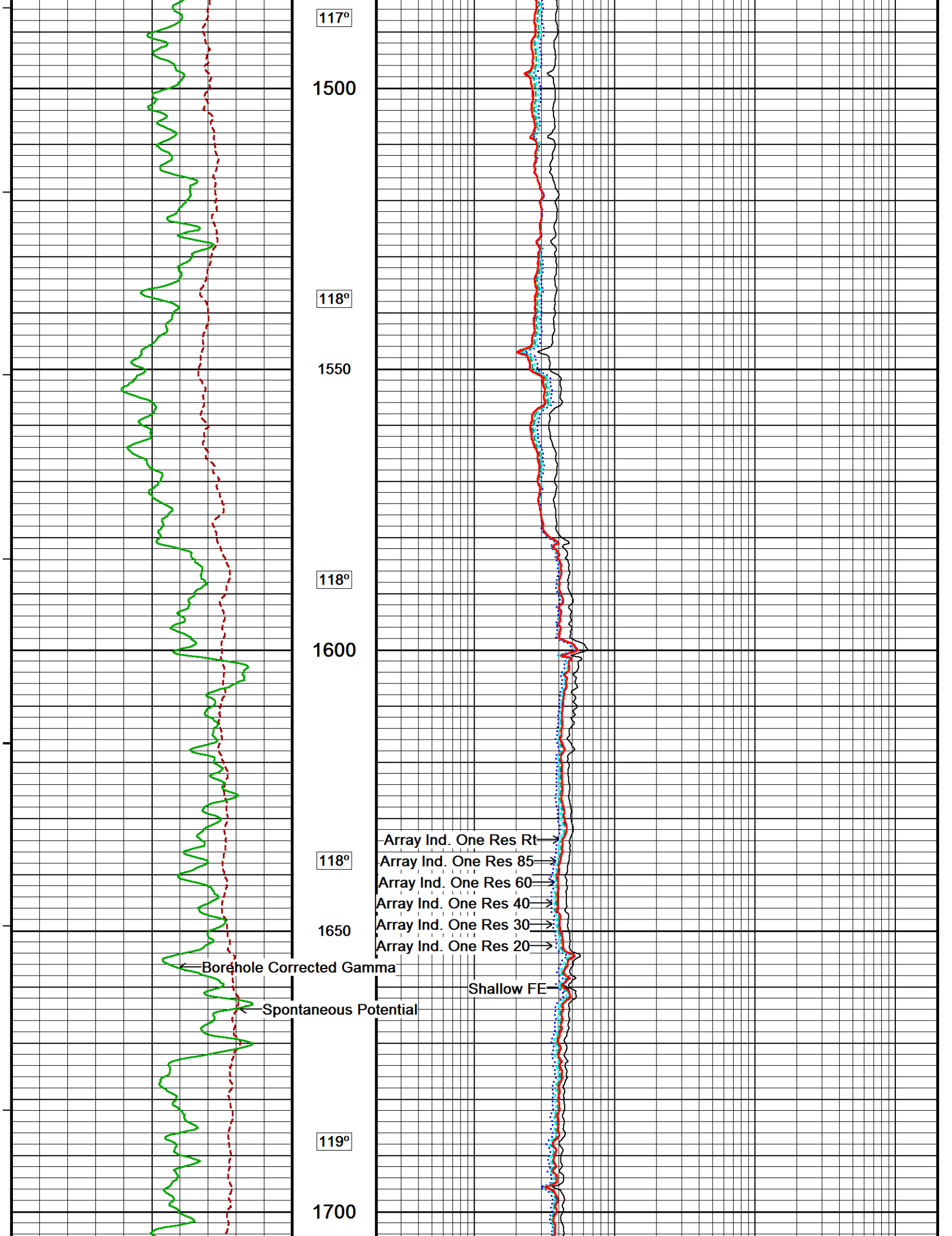
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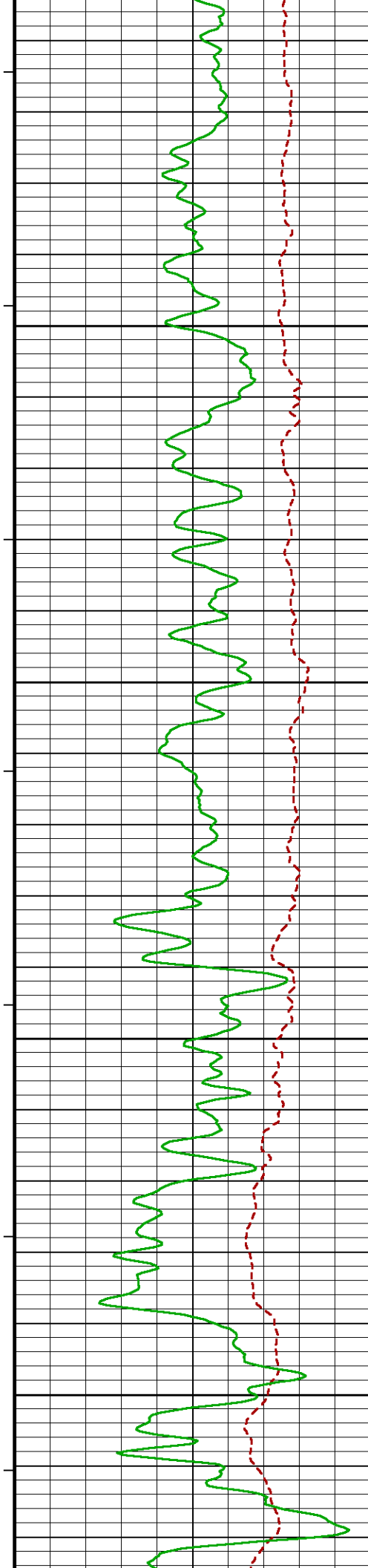
116°

1450

Shallow FE







119°

1750

120°

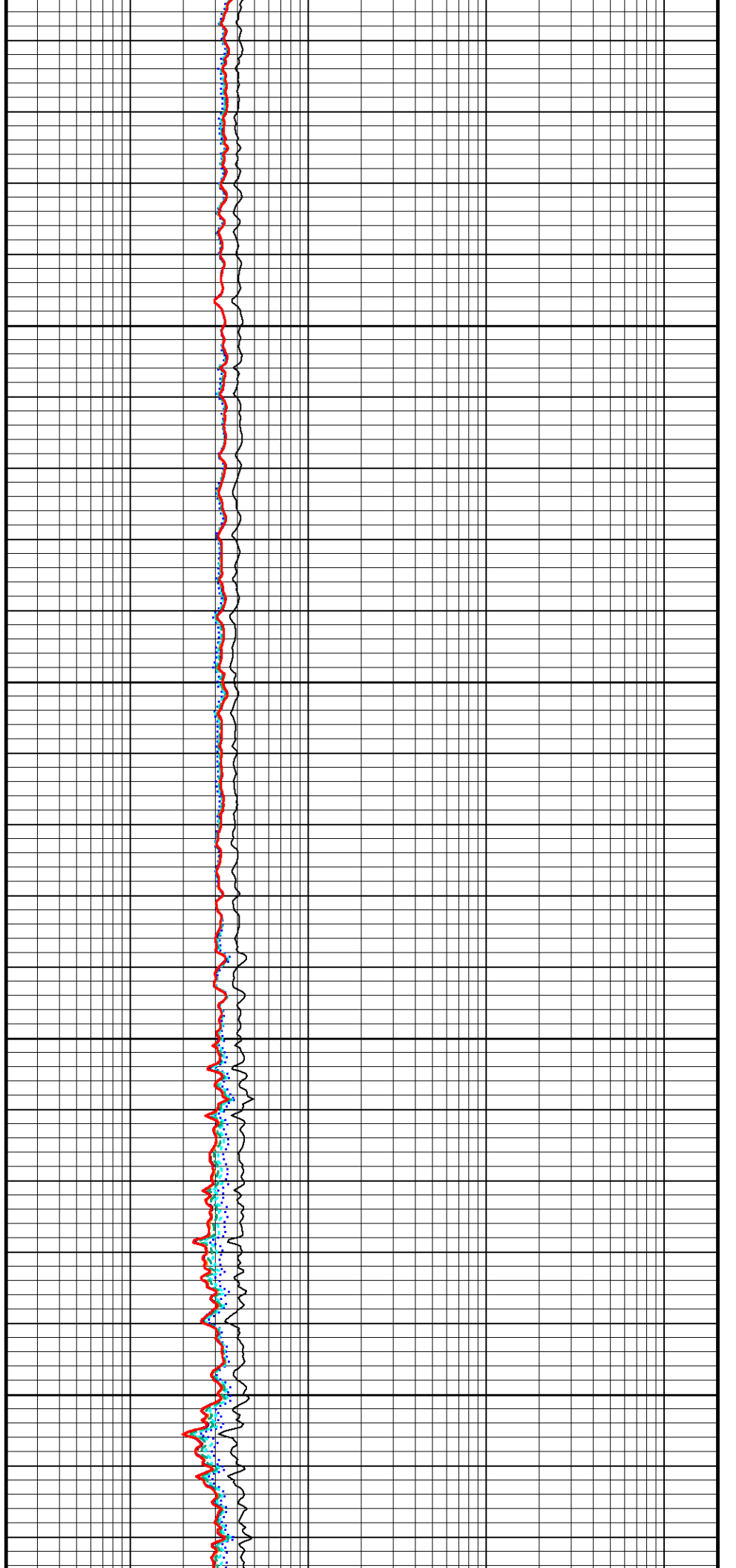
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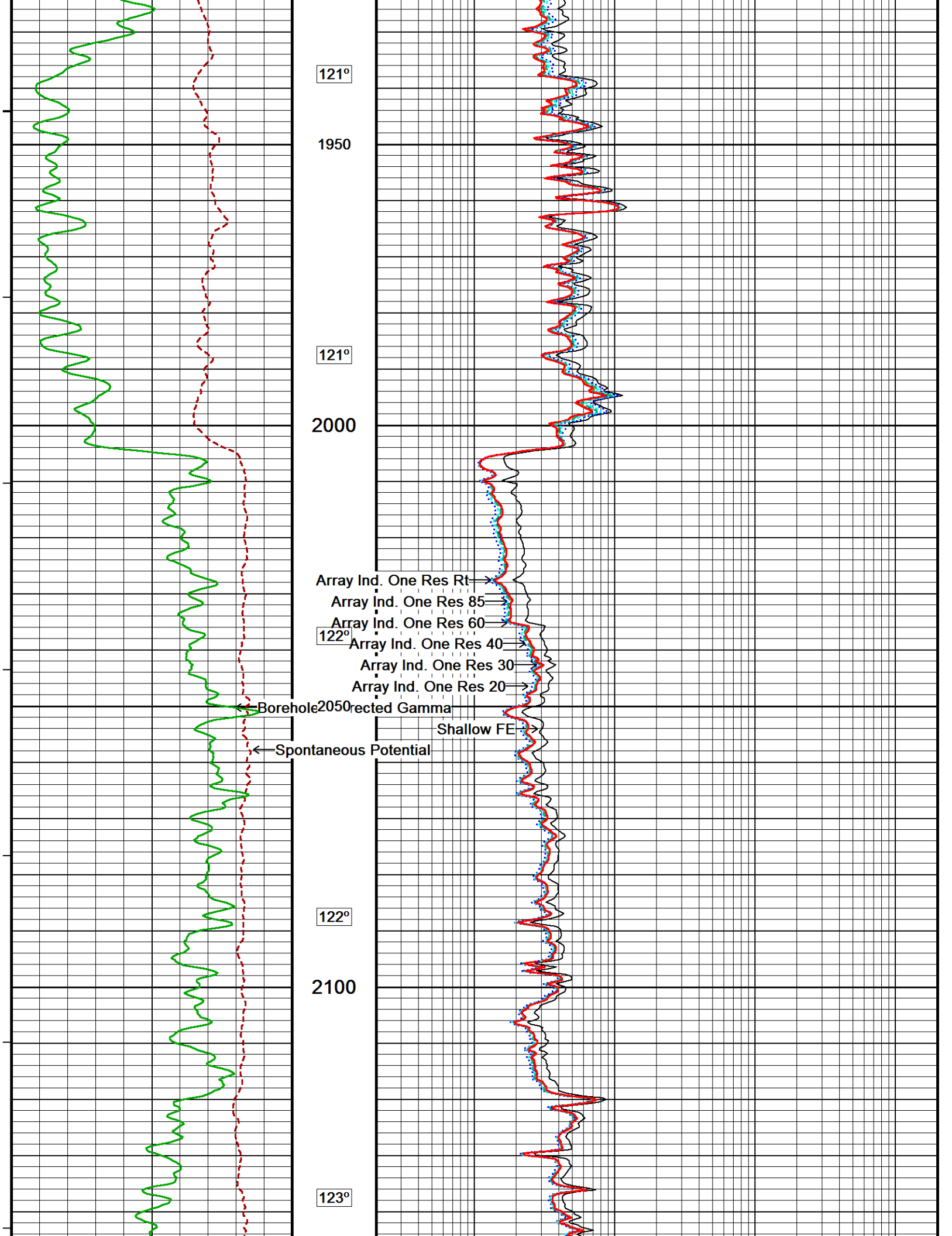
120°

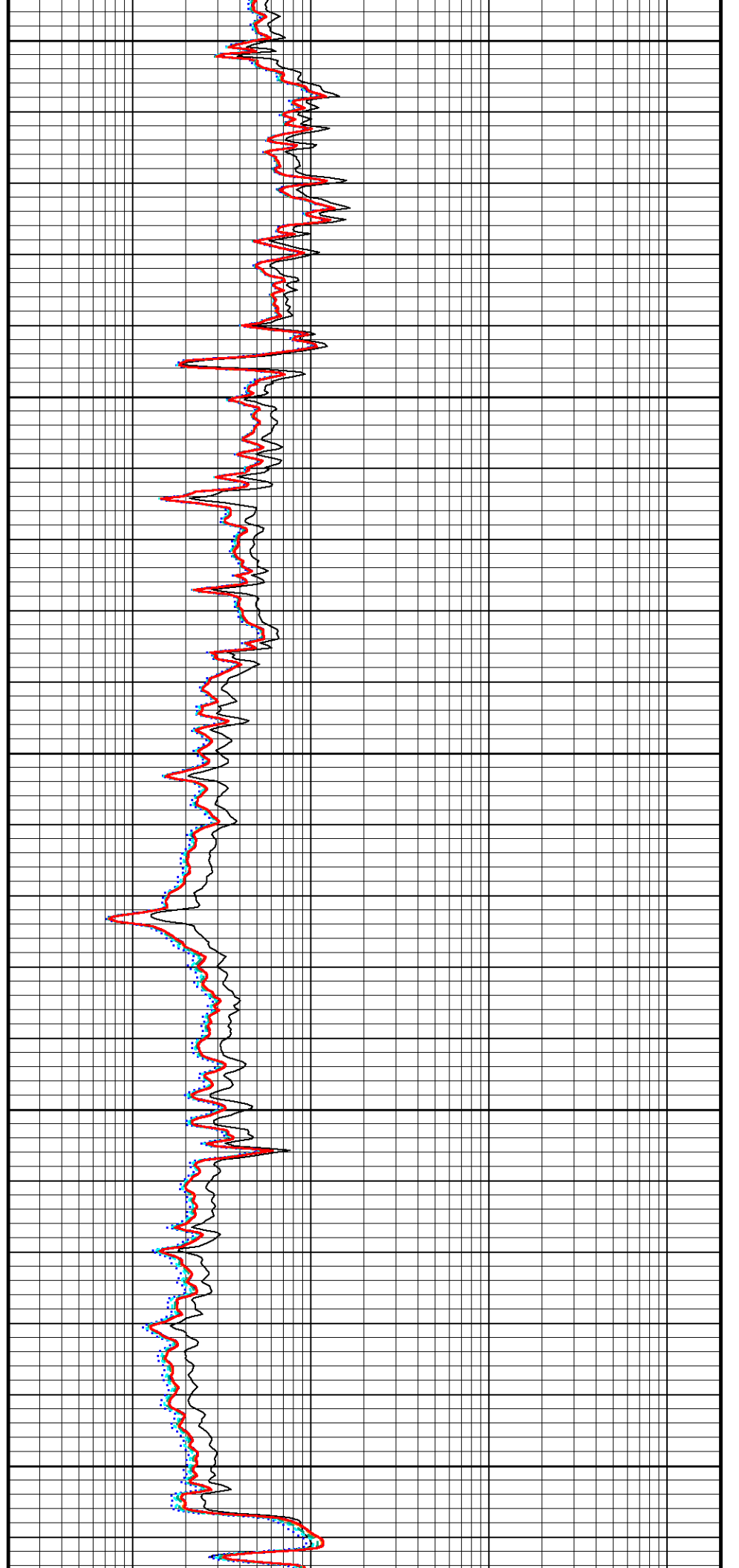
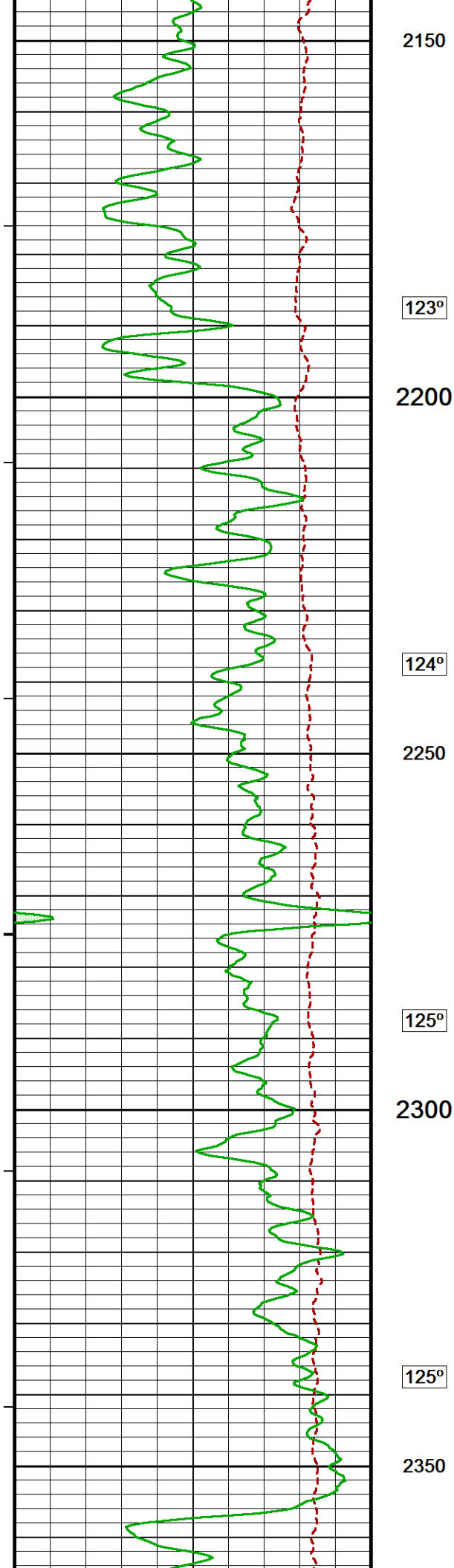
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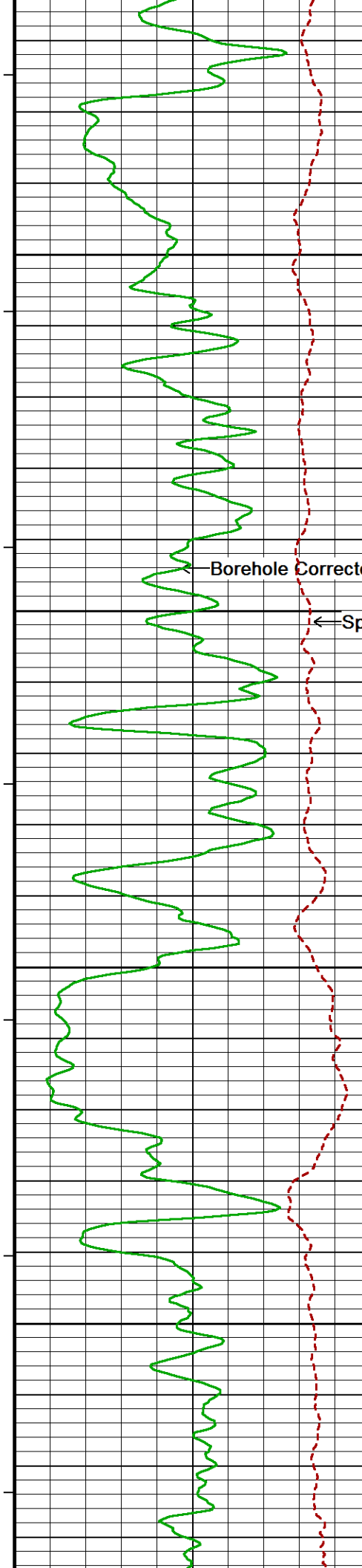
121°

1900









125°

2400

126°

2450

126°

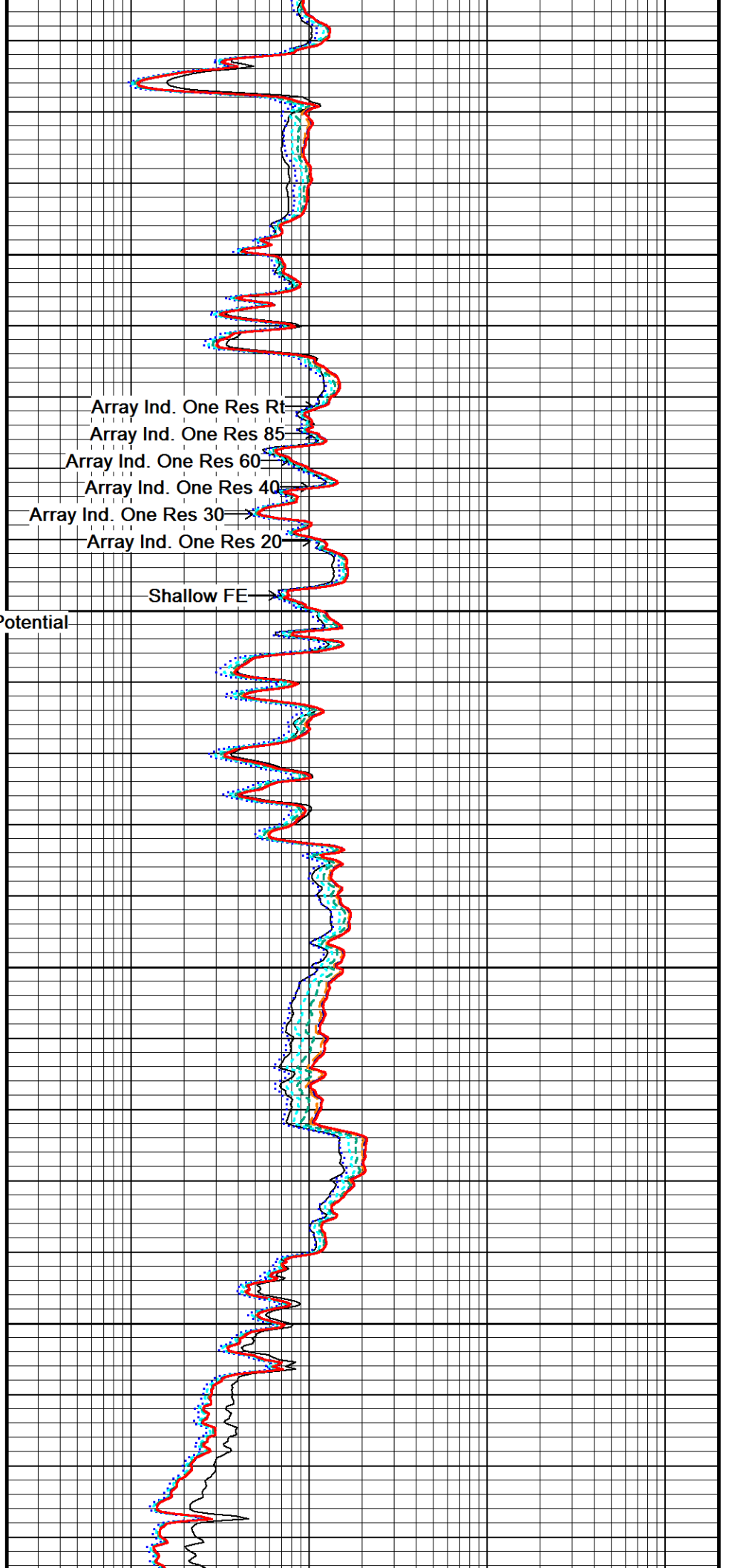
2500

127°

2550

Borehole Corrected Gamma

Spontaneous Potential



Array Ind. One Res Rt

Array Ind. One Res 85

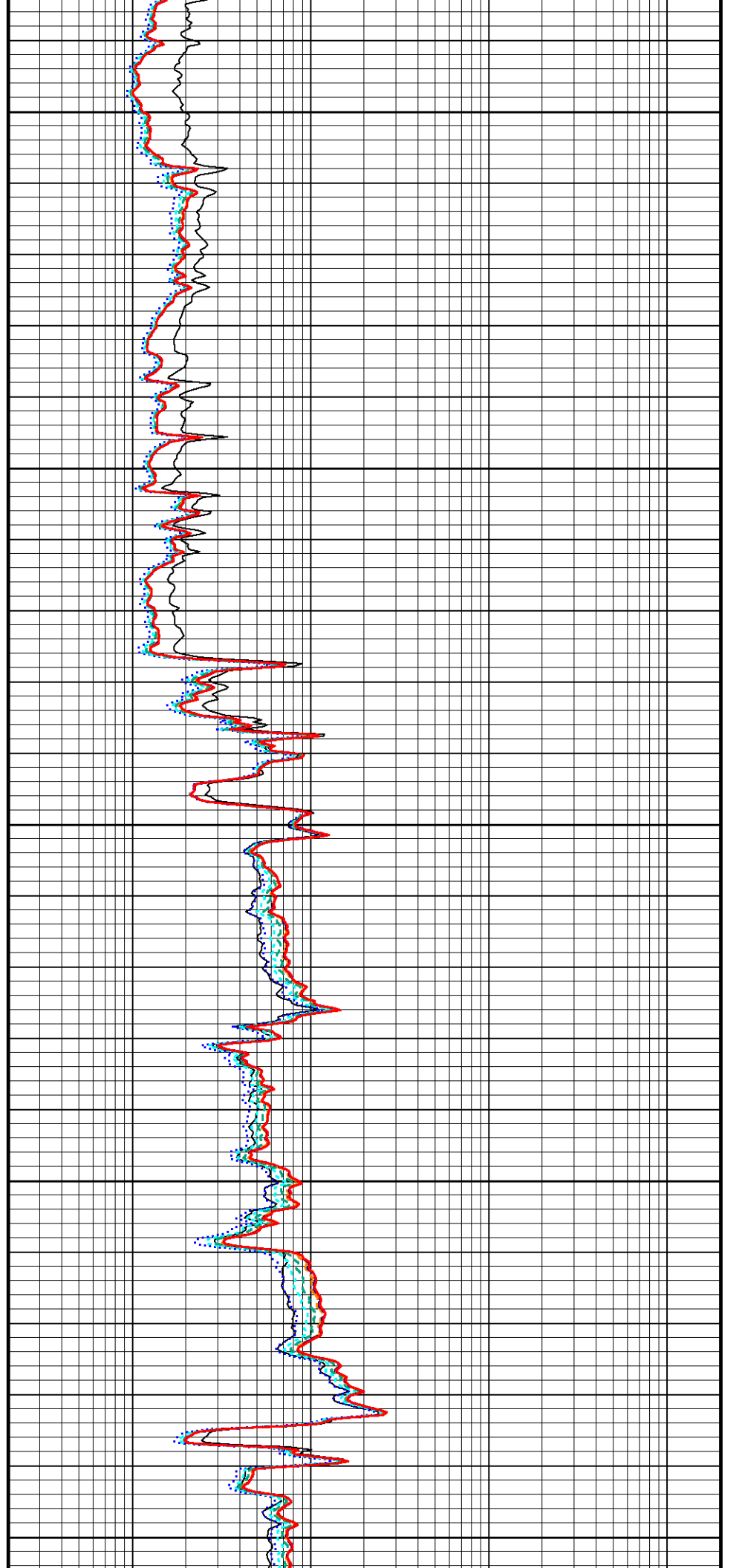
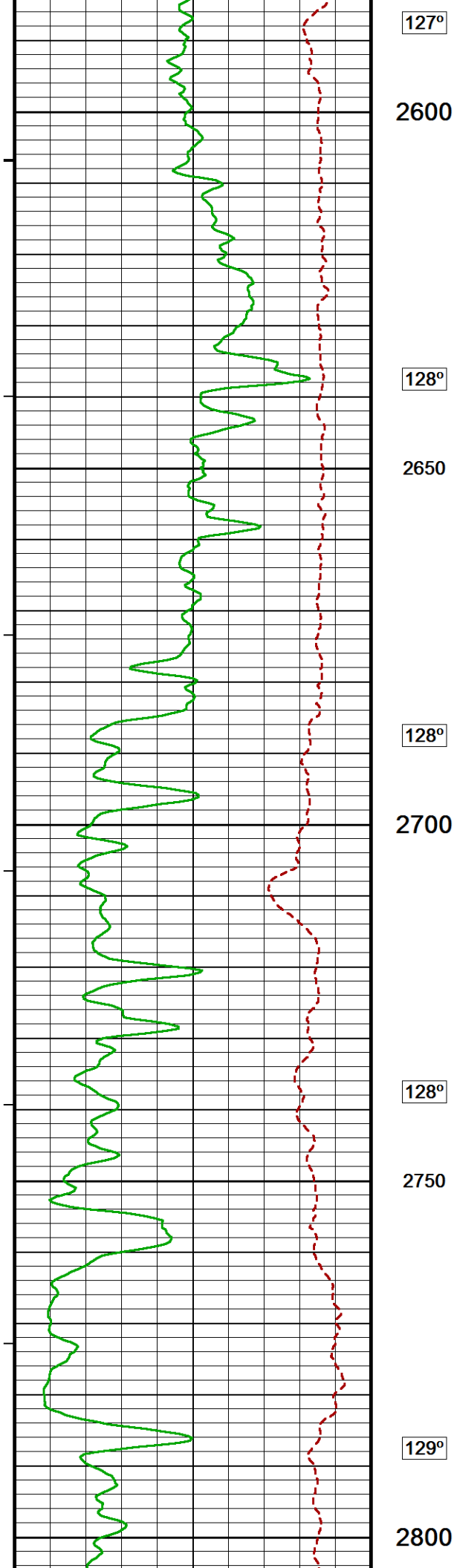
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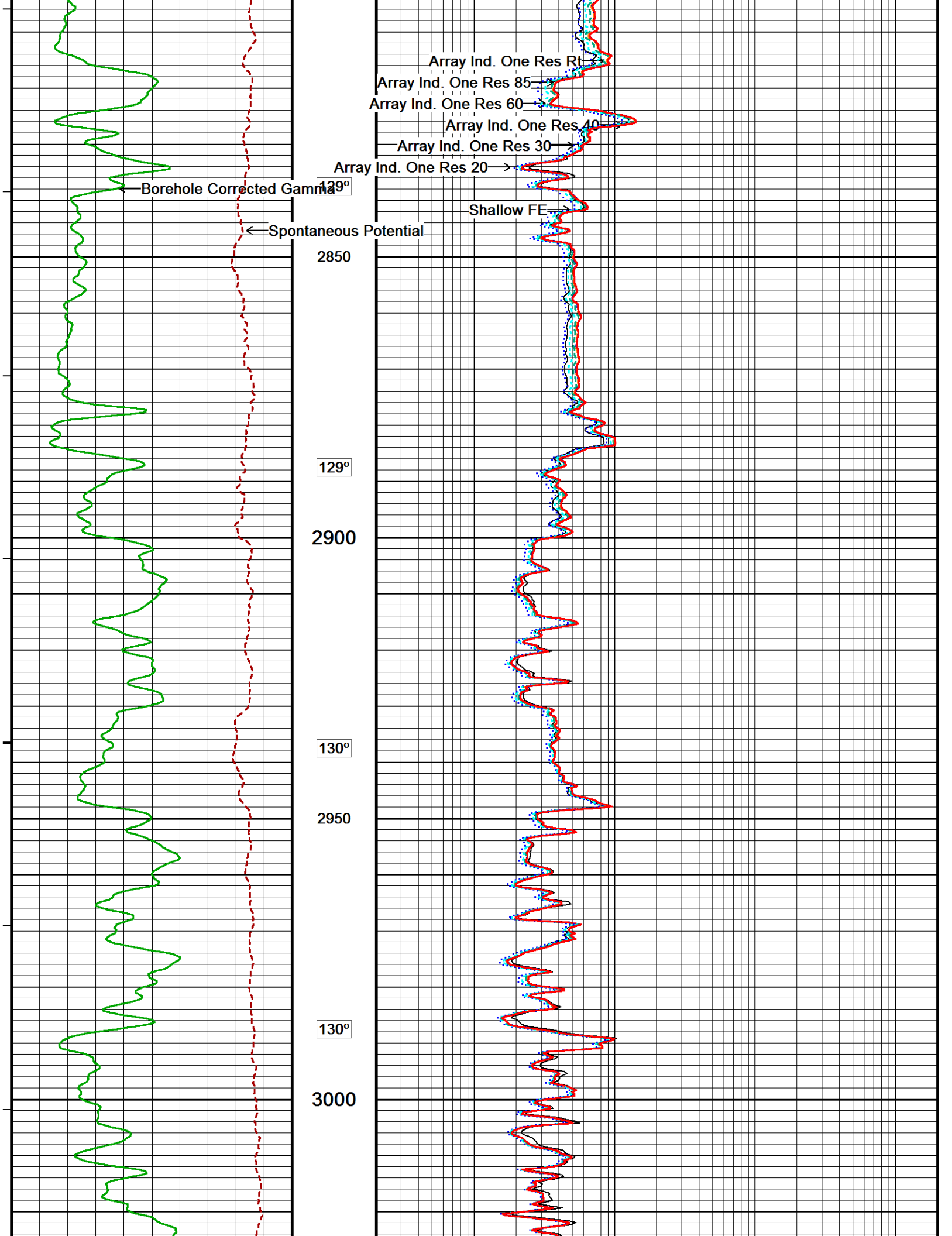
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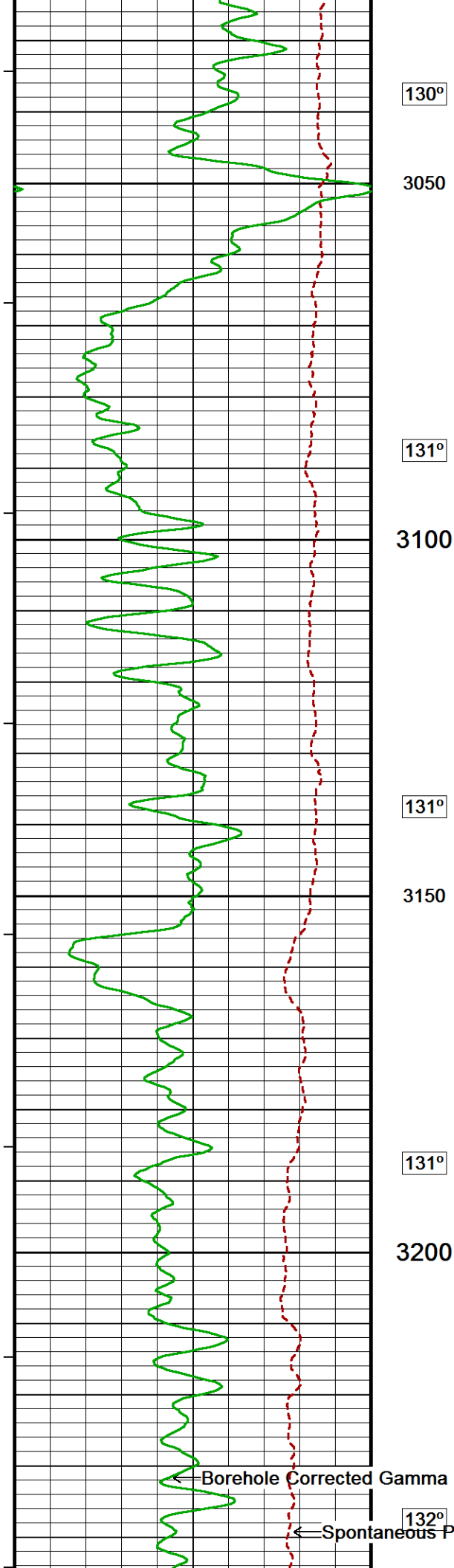
Array Ind. One Res 30

Array Ind. One Res 20

Shallow FE







130°

3050

131°

3100

131°

3150

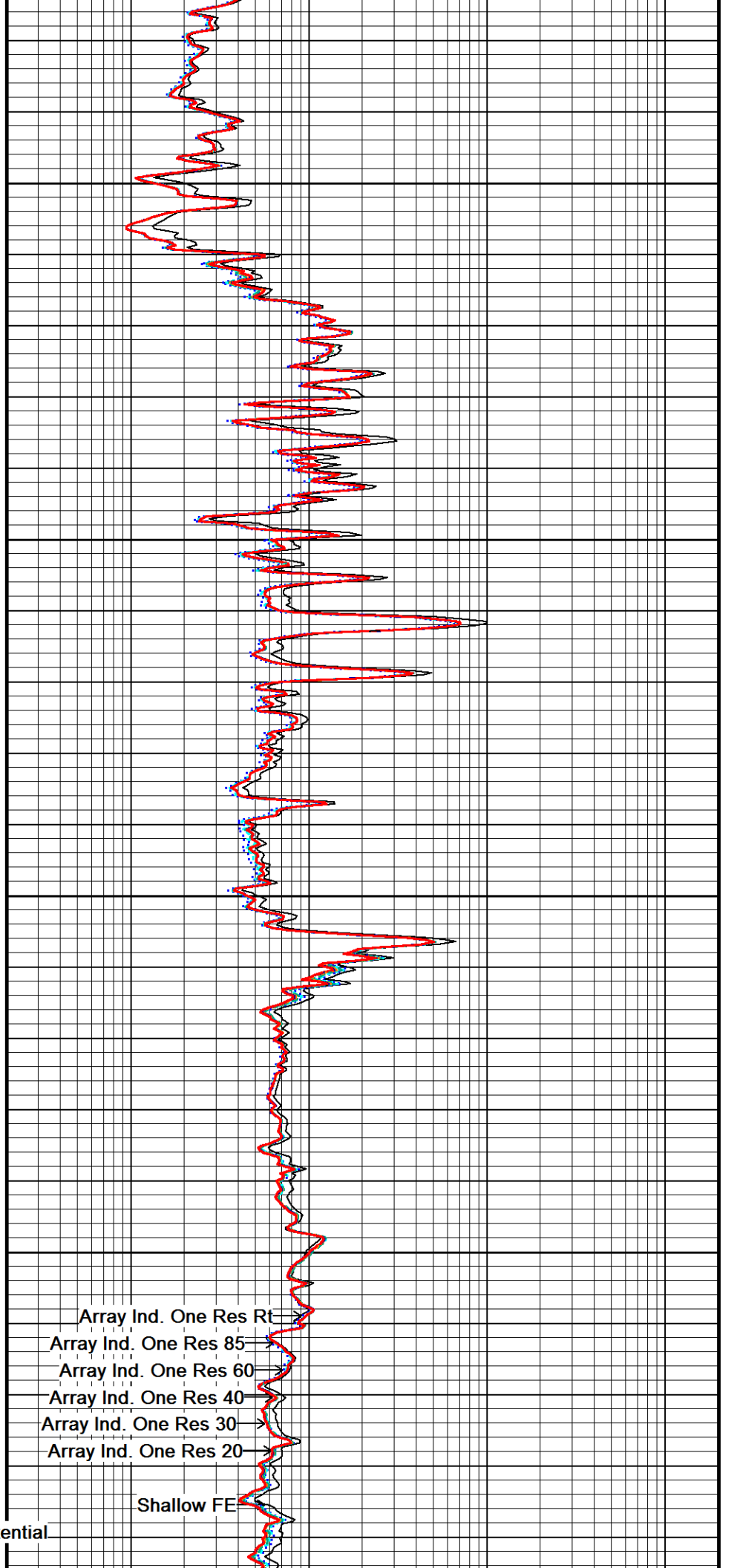
131°

3200

← Borehole Corrected Gamma

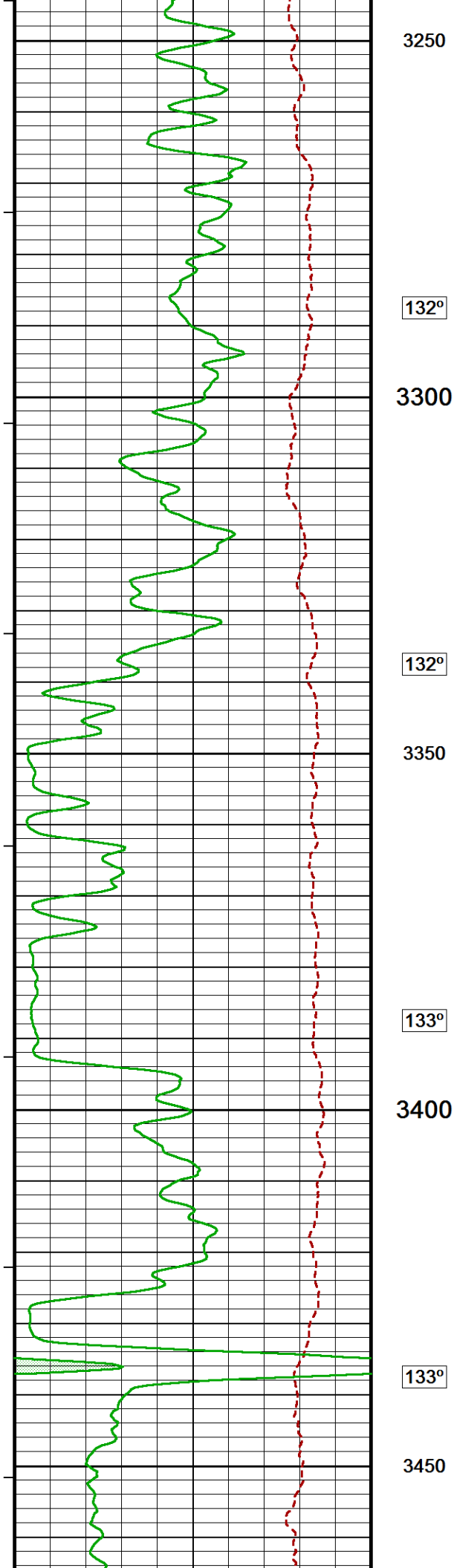
← Spontaneous Potential

132°



Array Ind. One Res Rt
Array Ind. One Res 85
Array Ind. One Res 60
Array Ind. One Res 40
Array Ind. One Res 30
Array Ind. One Res 20

Shallow FE



3250

132°

3300

132°

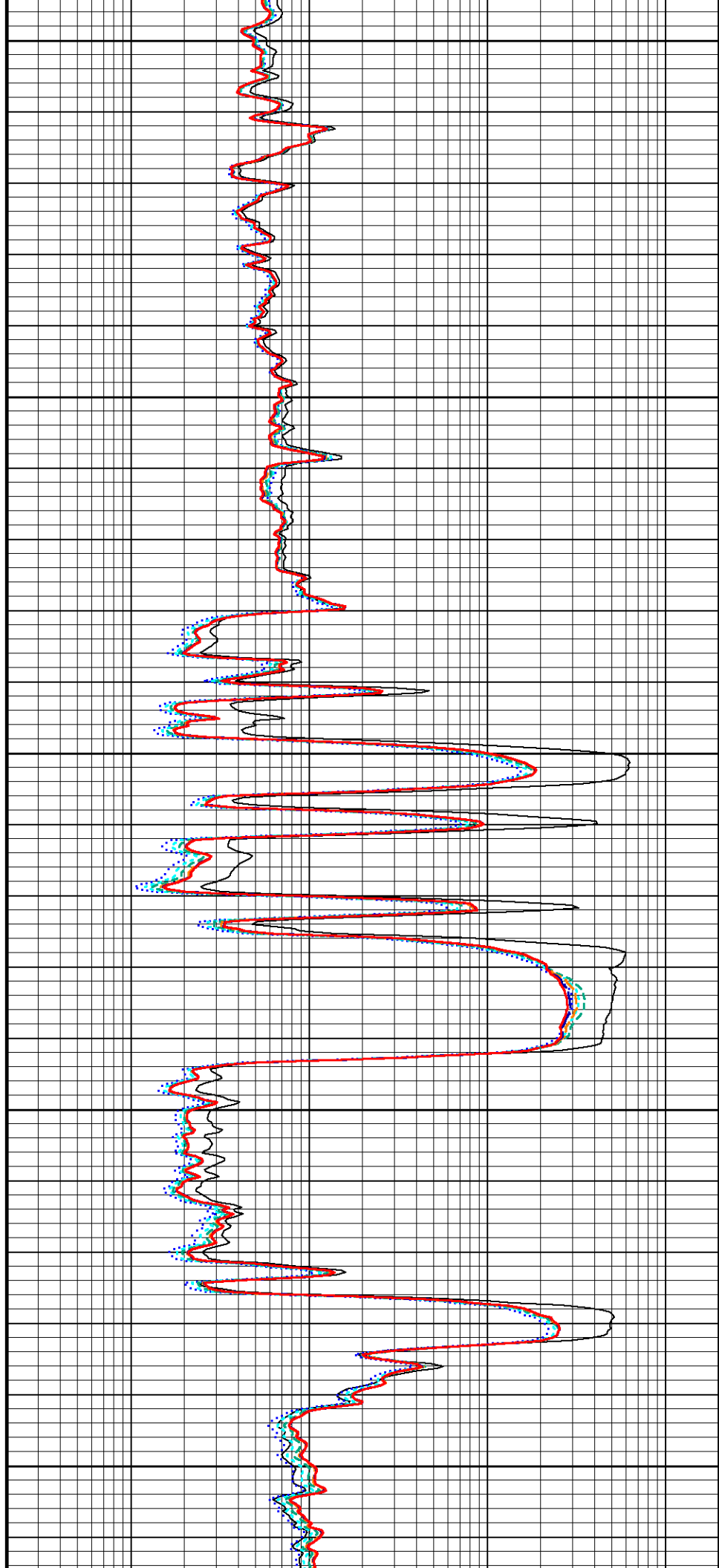
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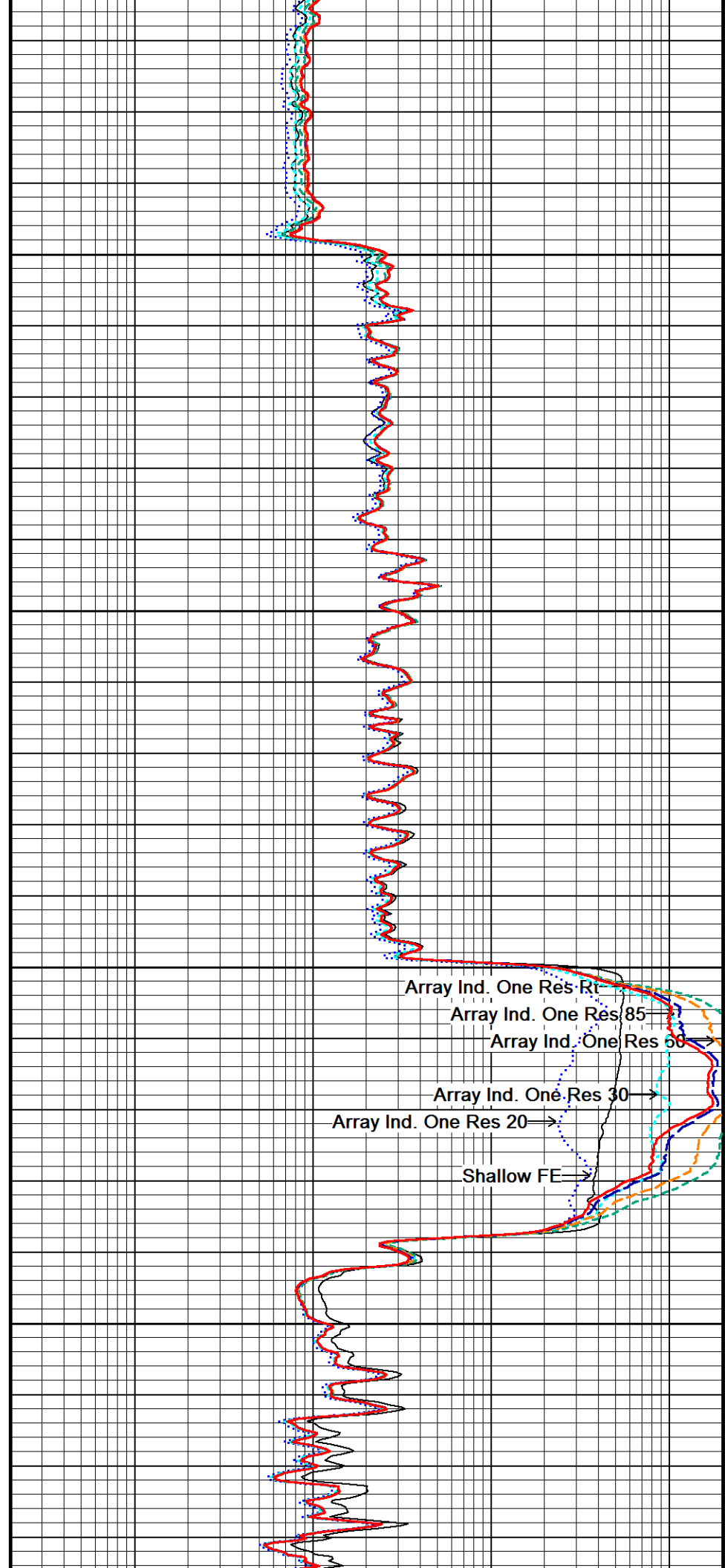
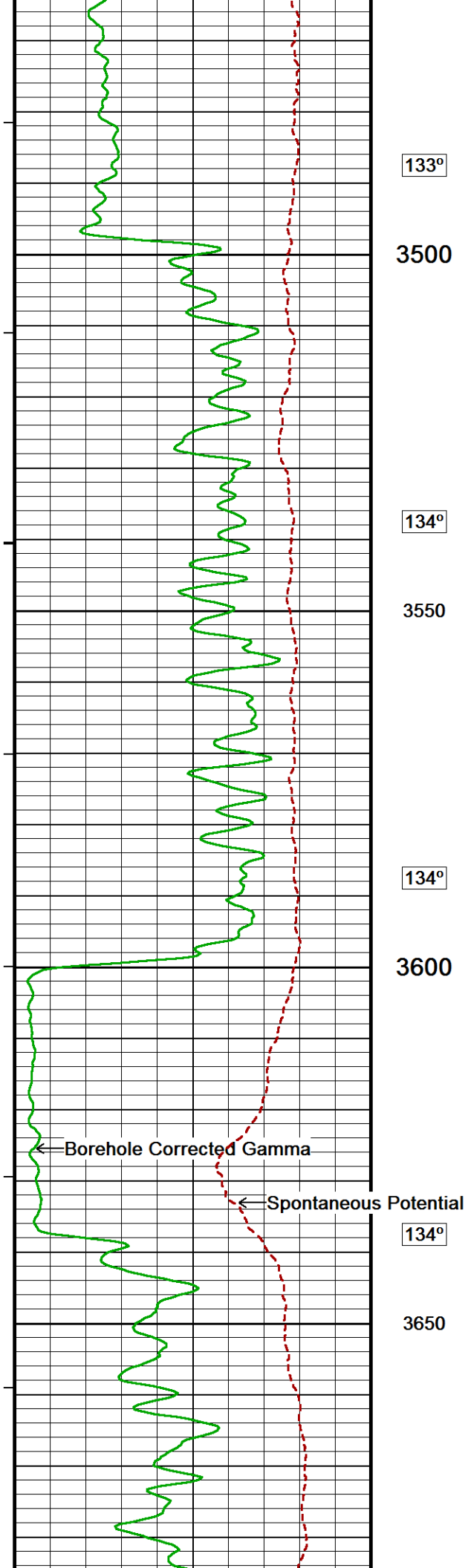
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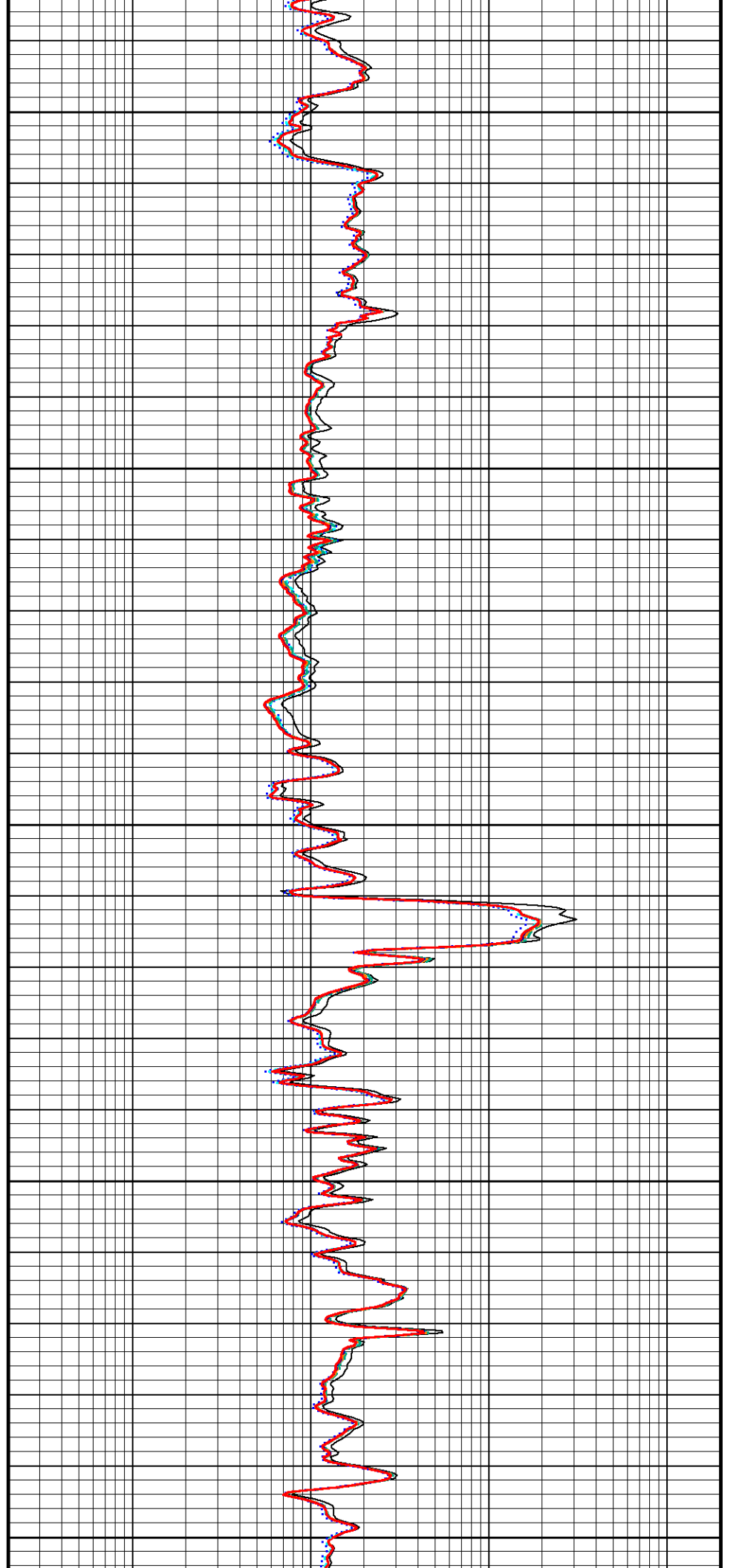
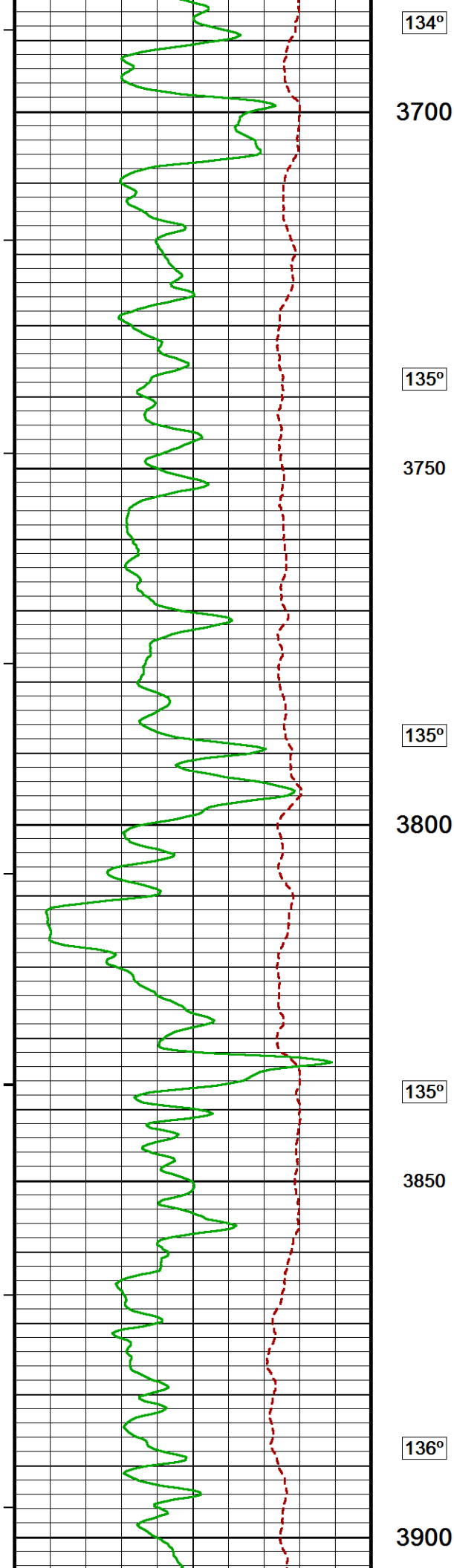
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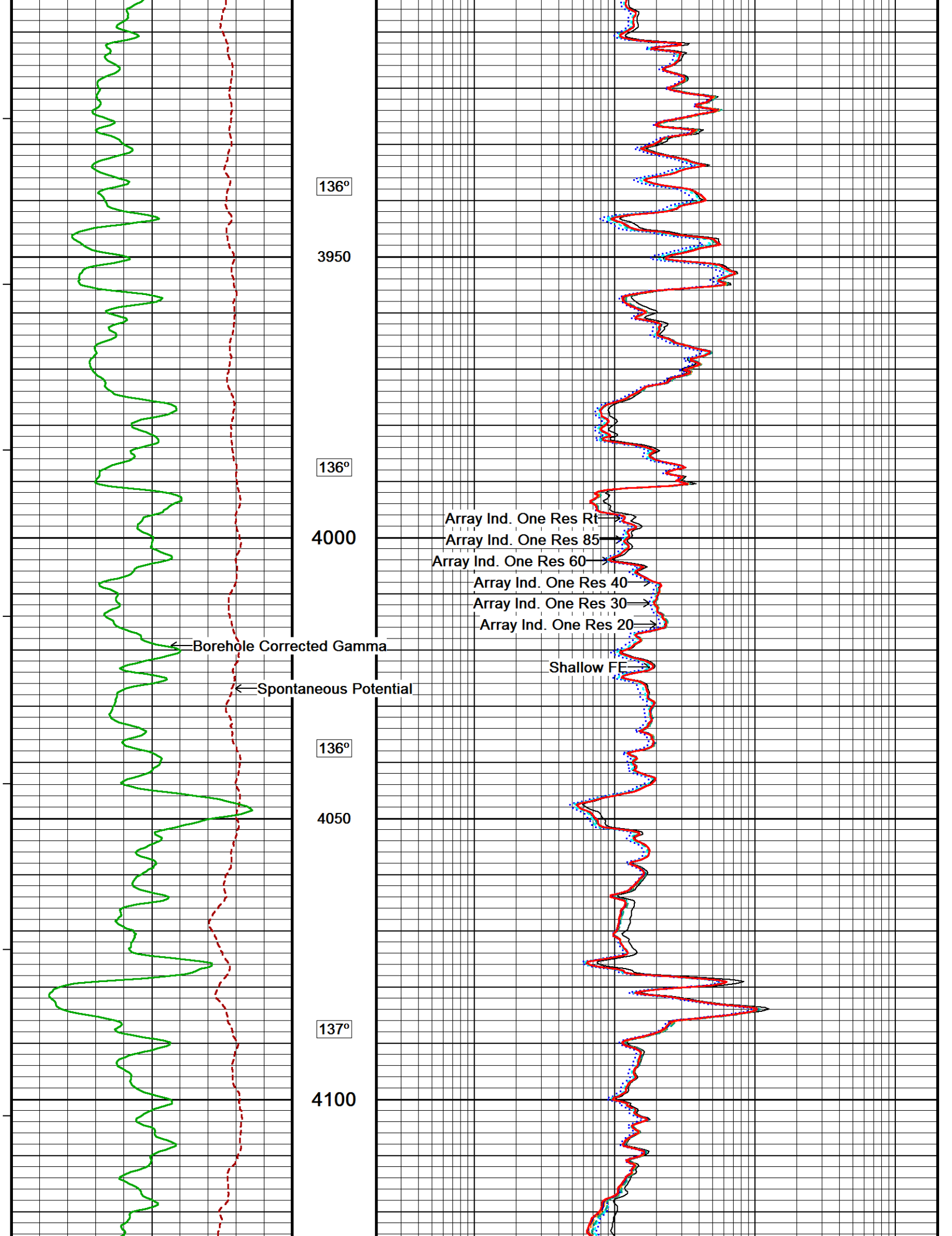
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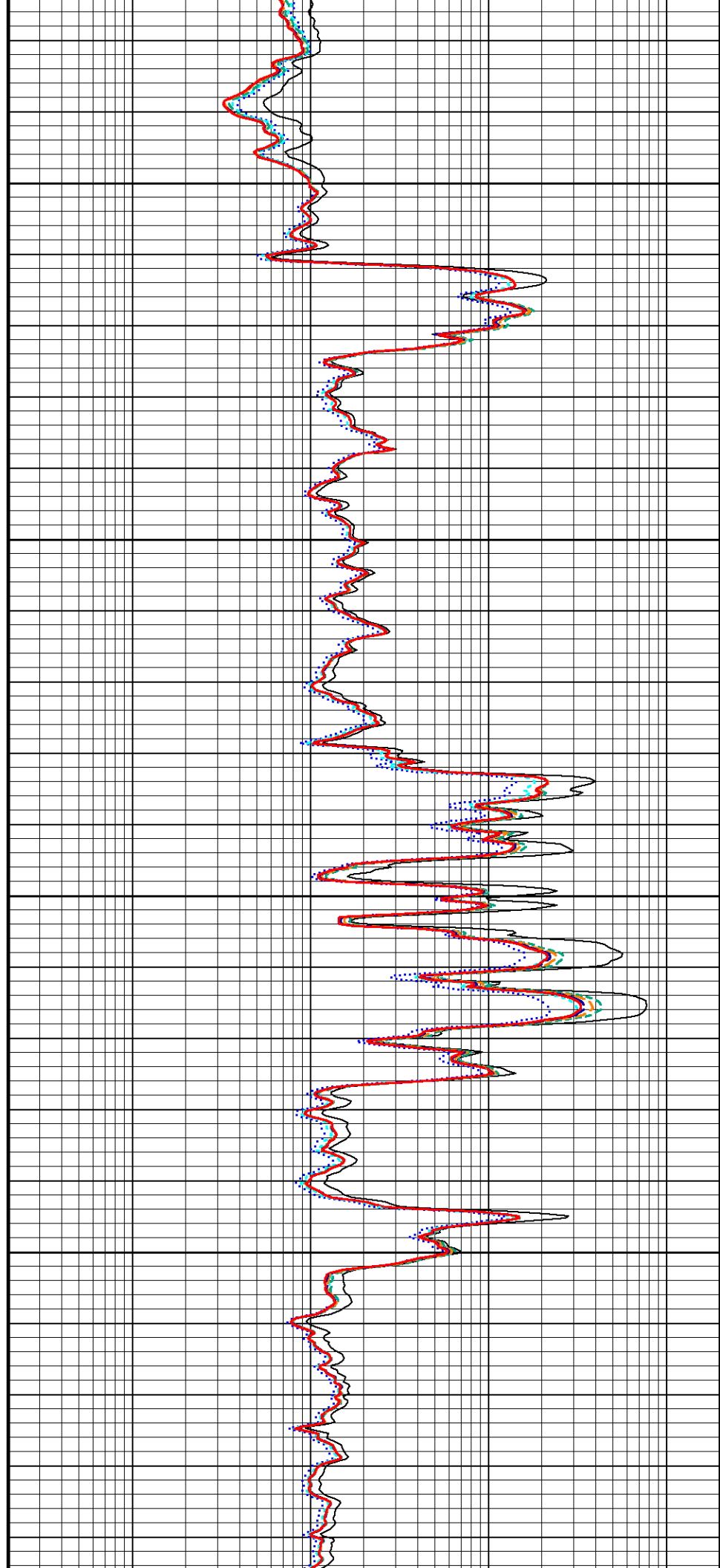
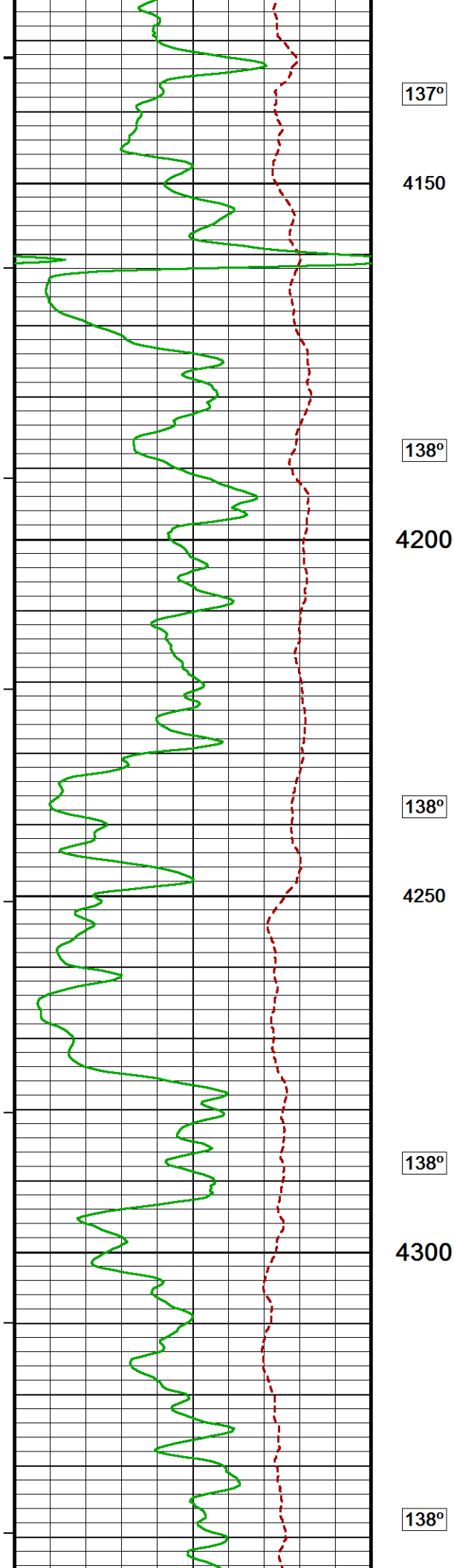
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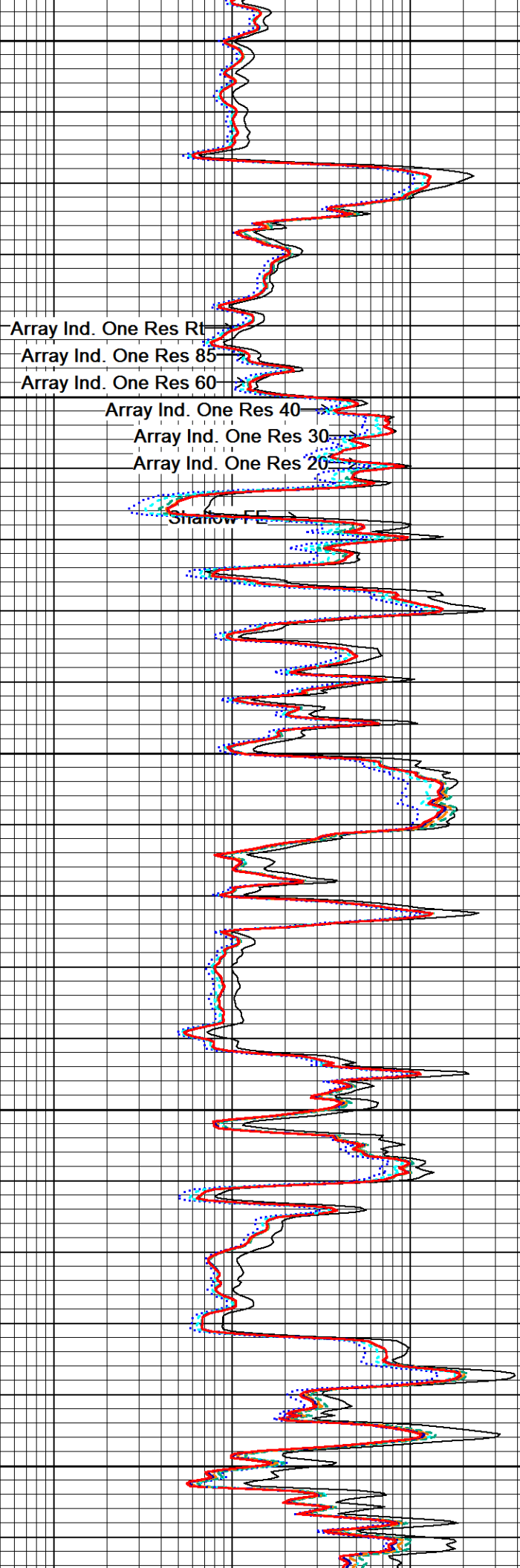
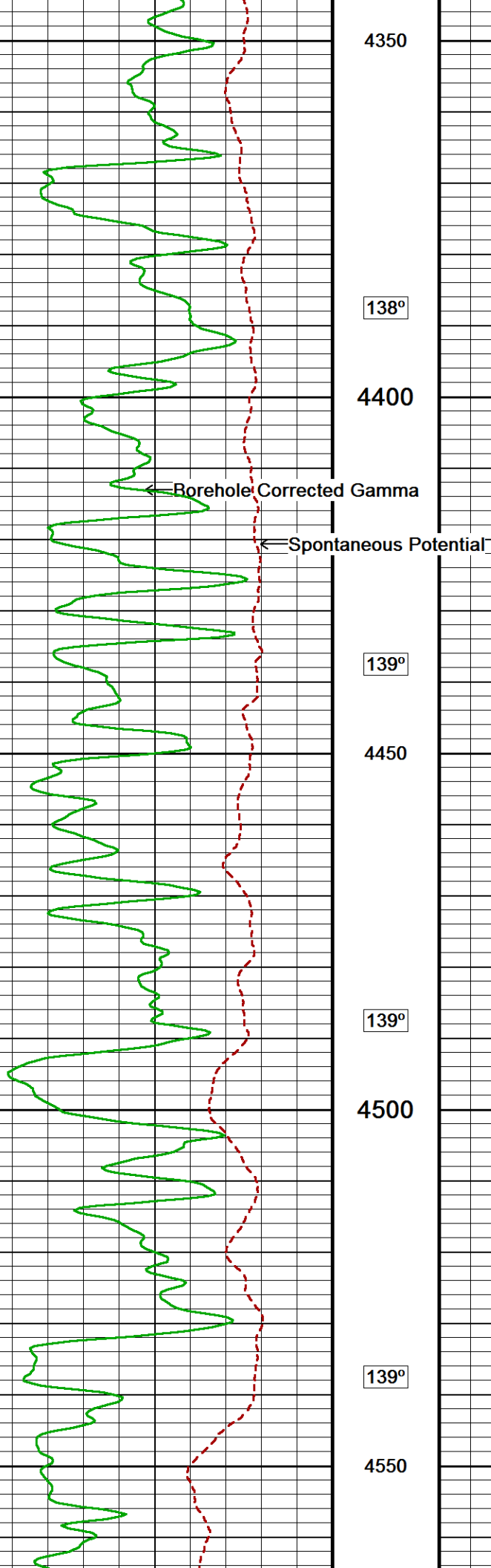


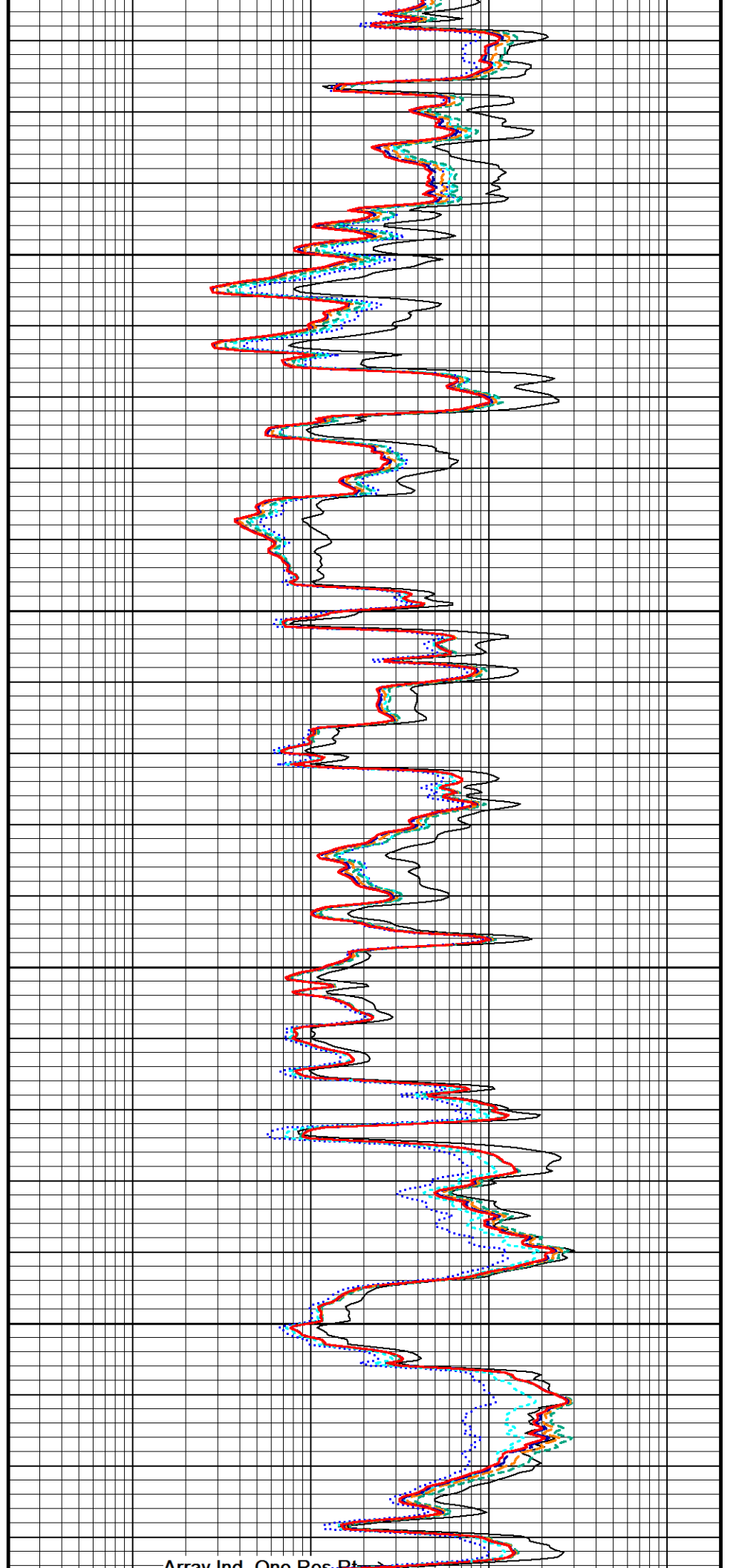
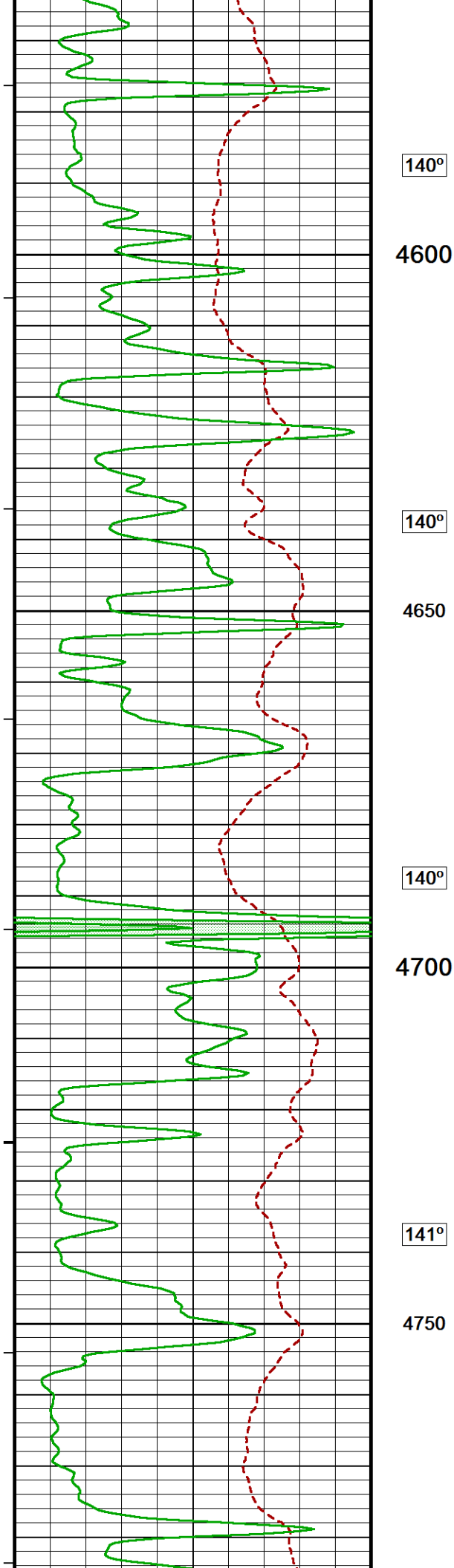


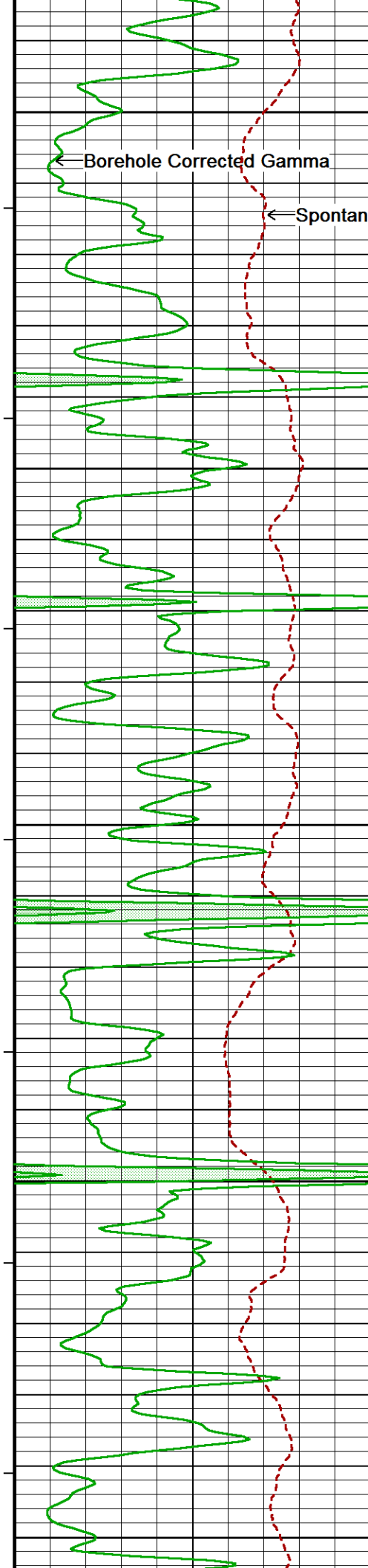












141°

4800

141°

4850

142°

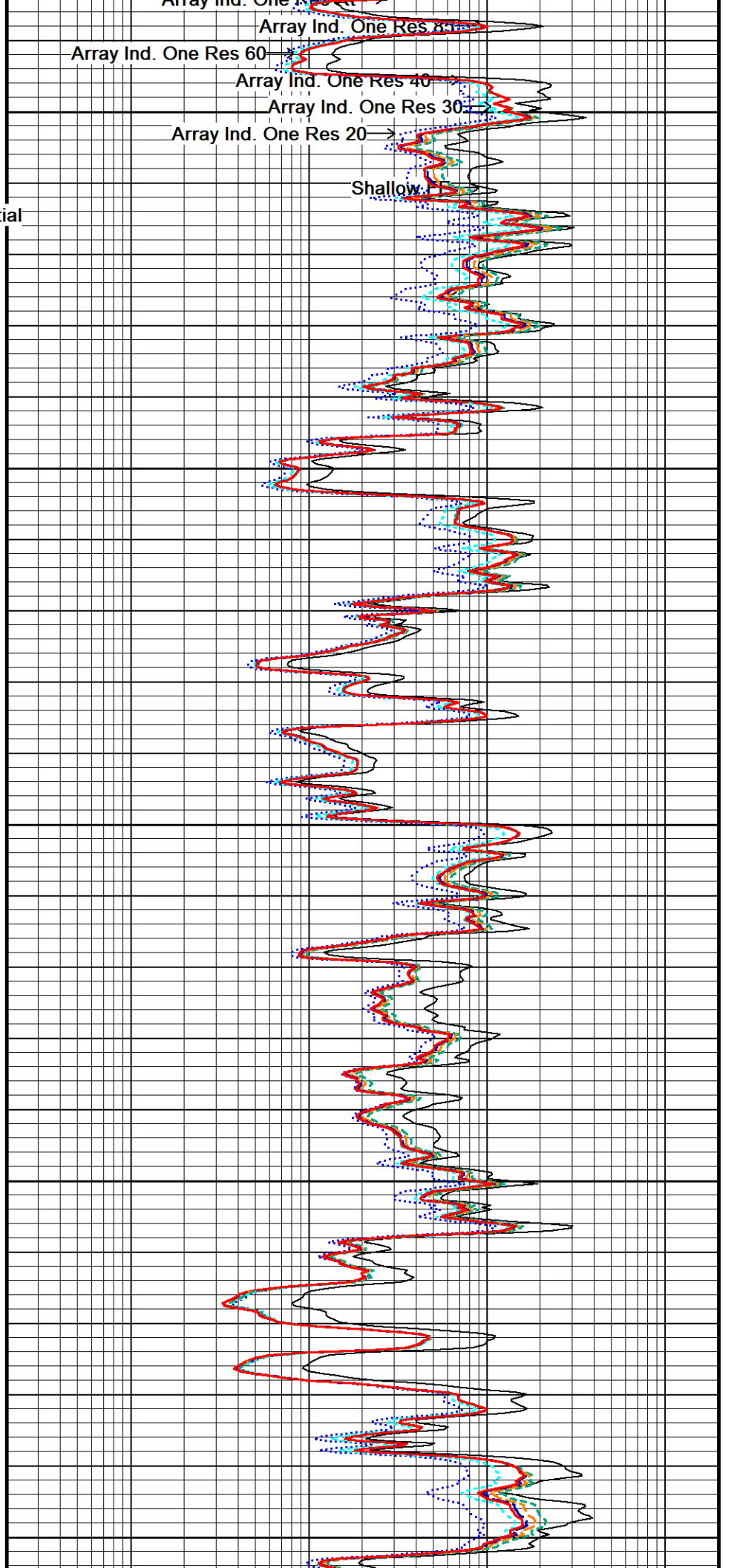
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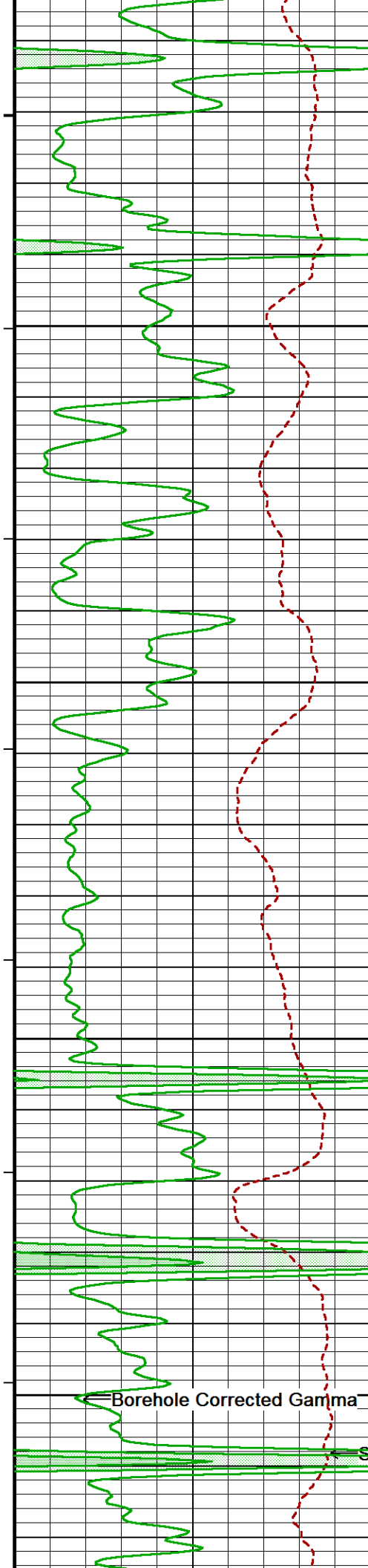
142°

4950

142°

5000





143°

5050

143°

5100

143°

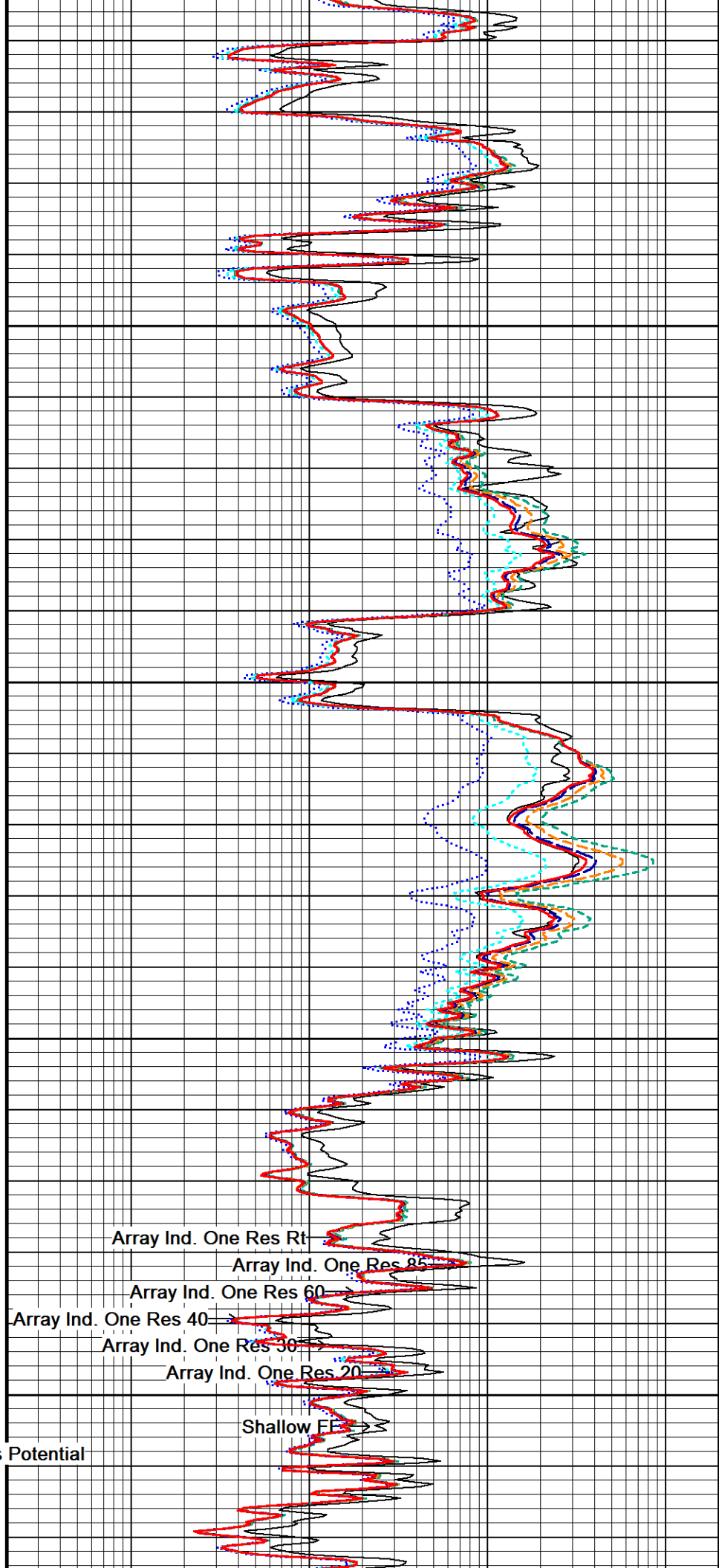
5150

144°

5200

Borehole Corrected Gamma

Spontaneous Potential



Array Ind. One Res Rt

Array Ind. One Res 85

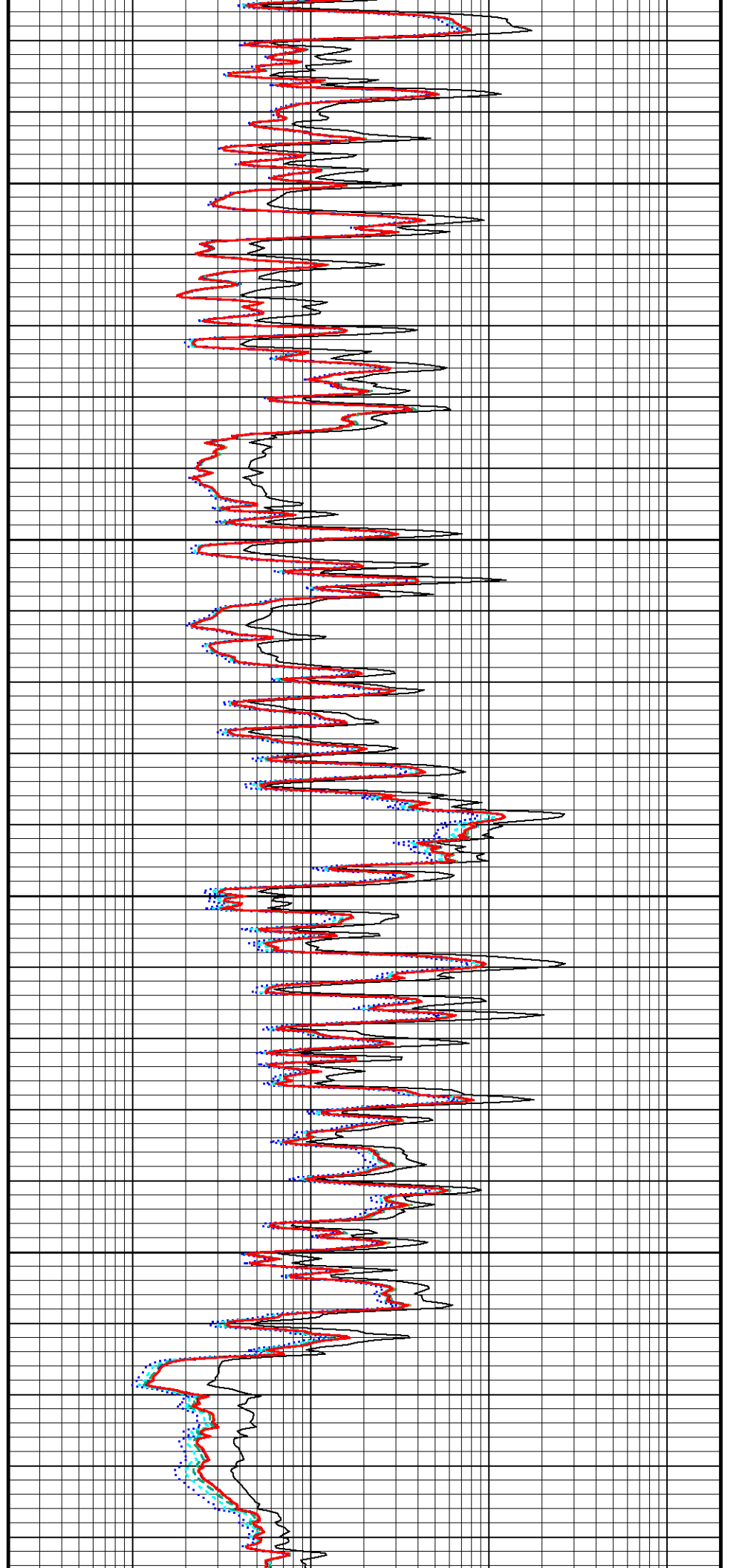
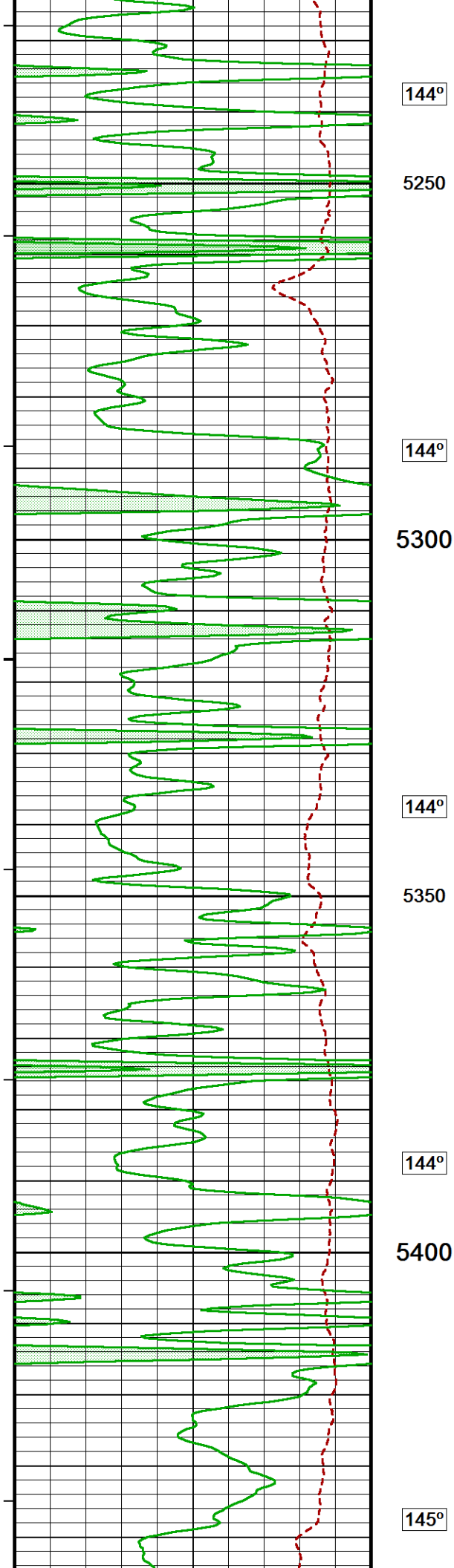
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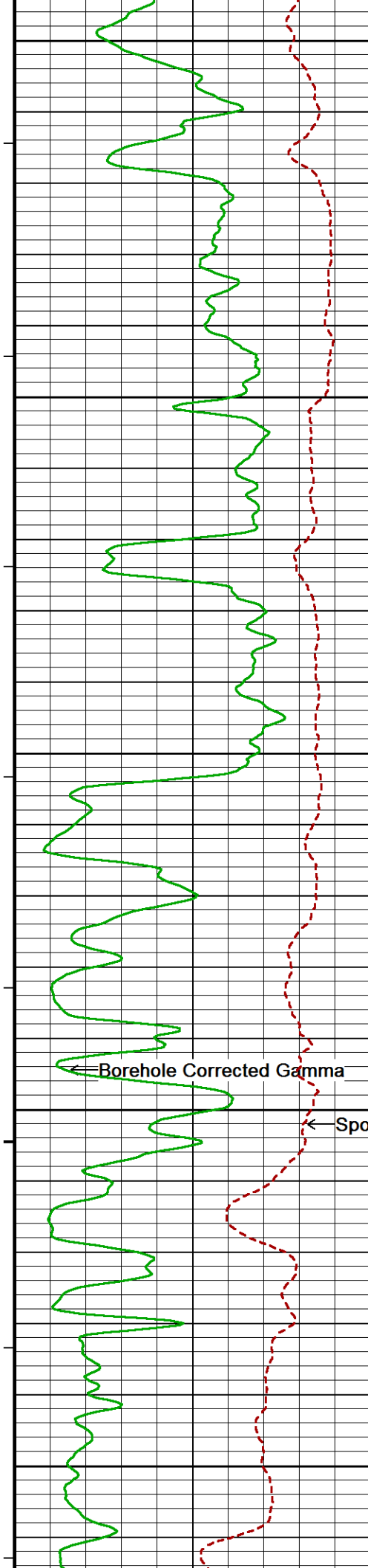
Array Ind. One Res 40

Array Ind. One Res 30

Array Ind. One Res 20

Shallow FF





5450

145°

5500

147°

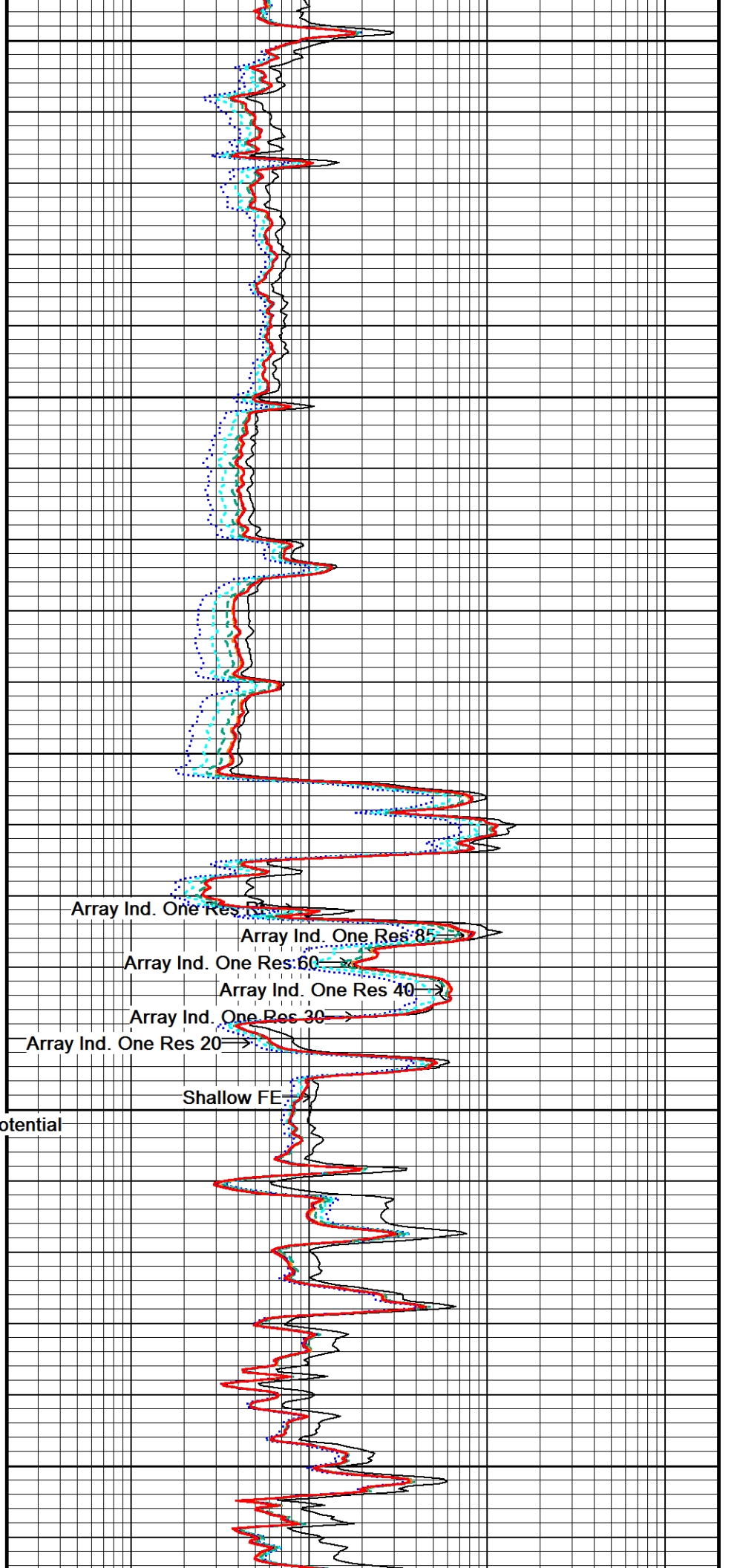
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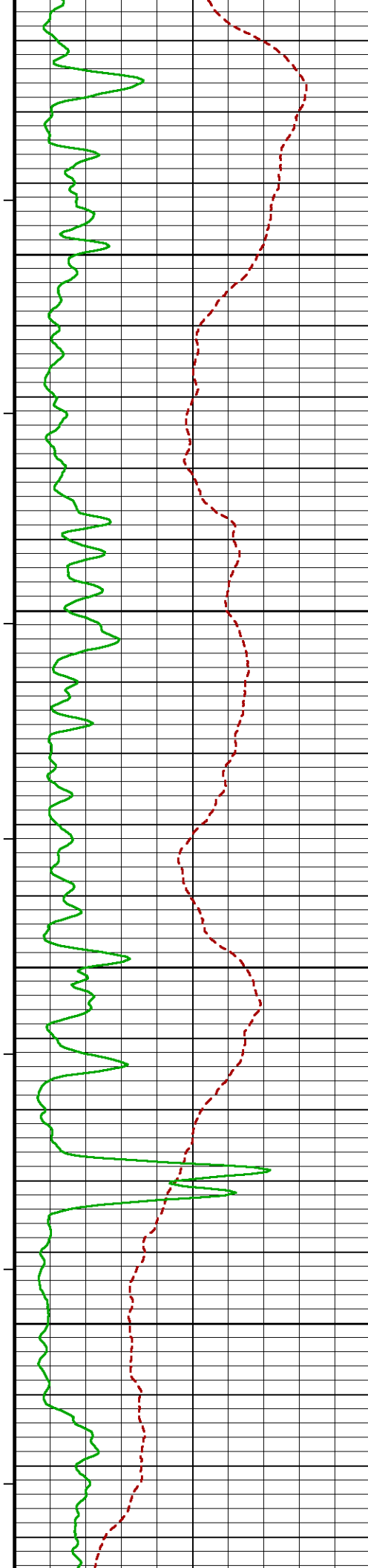
149°

5600

149°

5650





150°

5700

150°

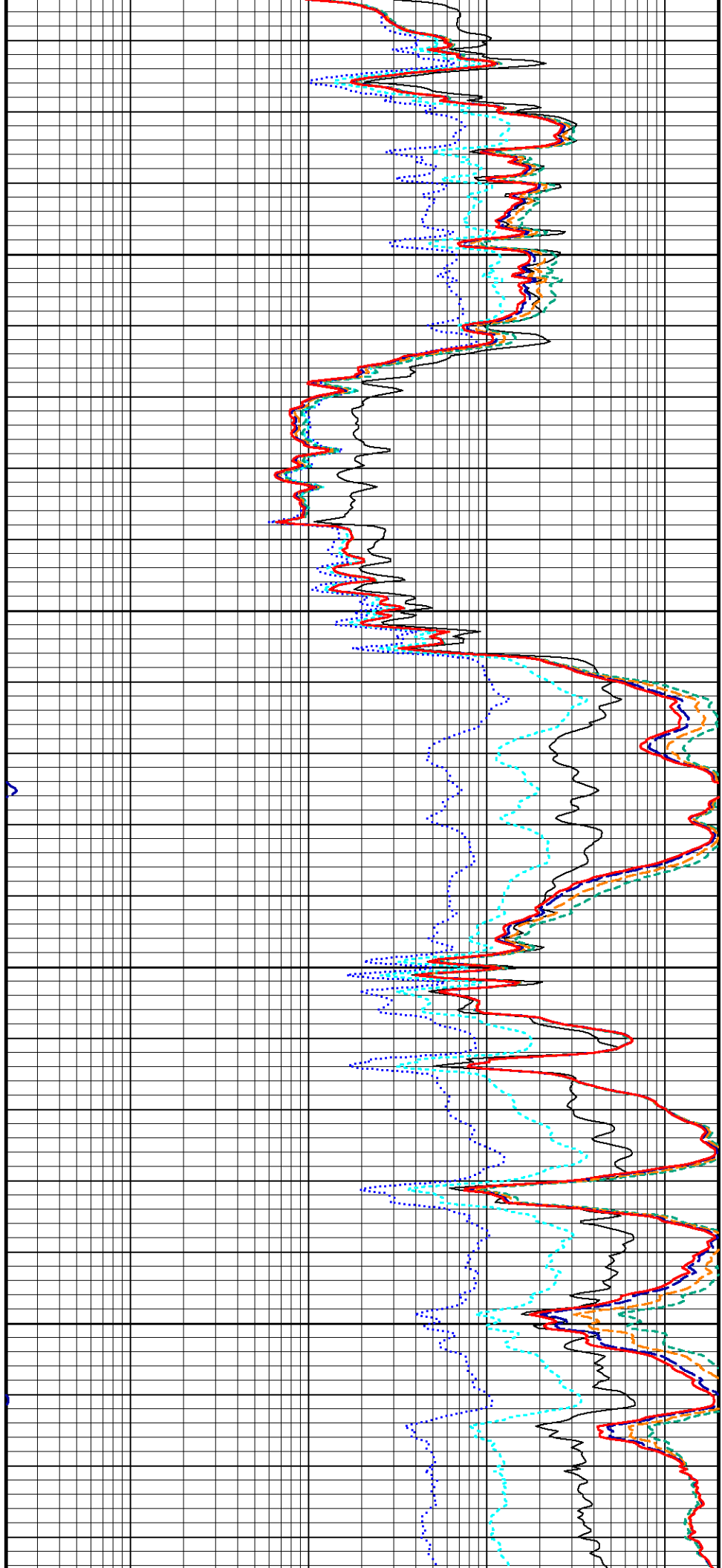
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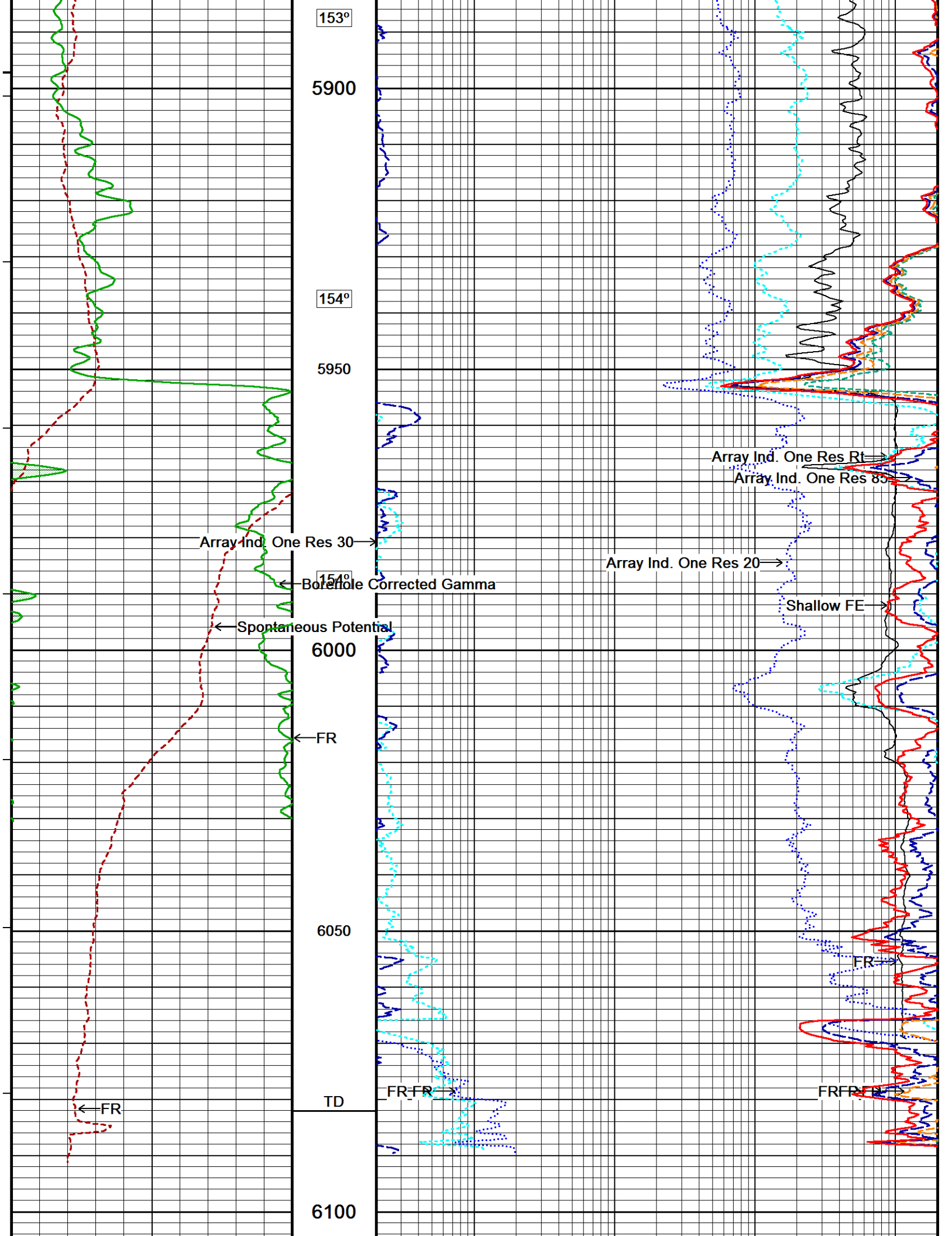
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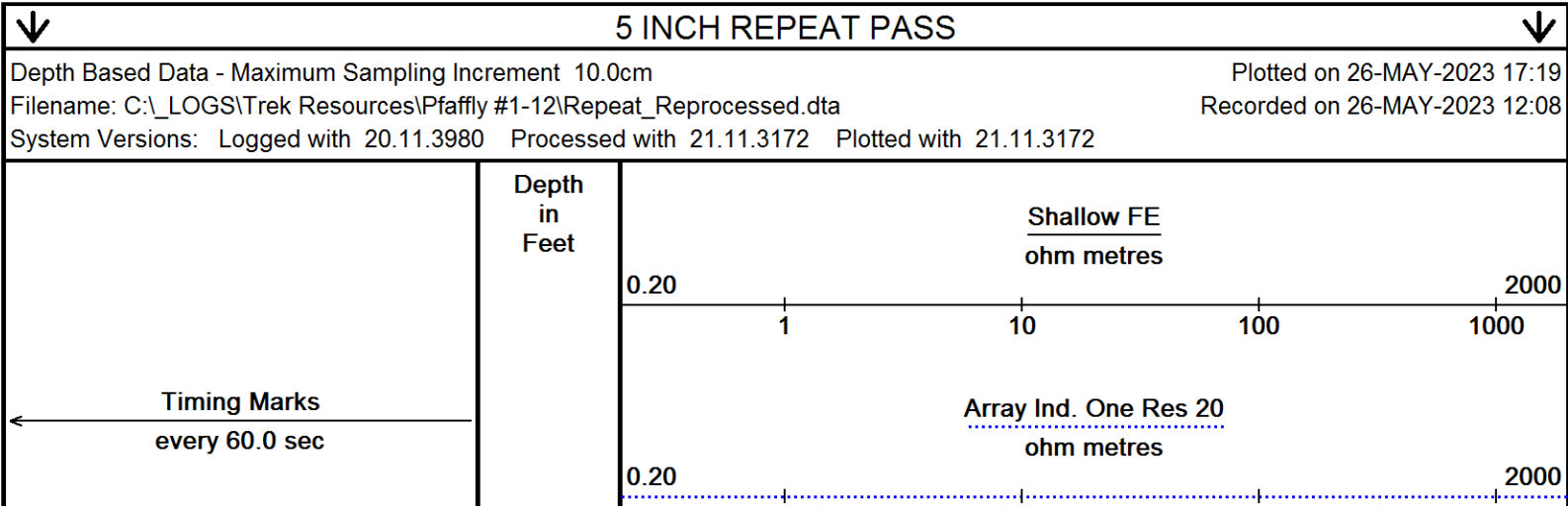
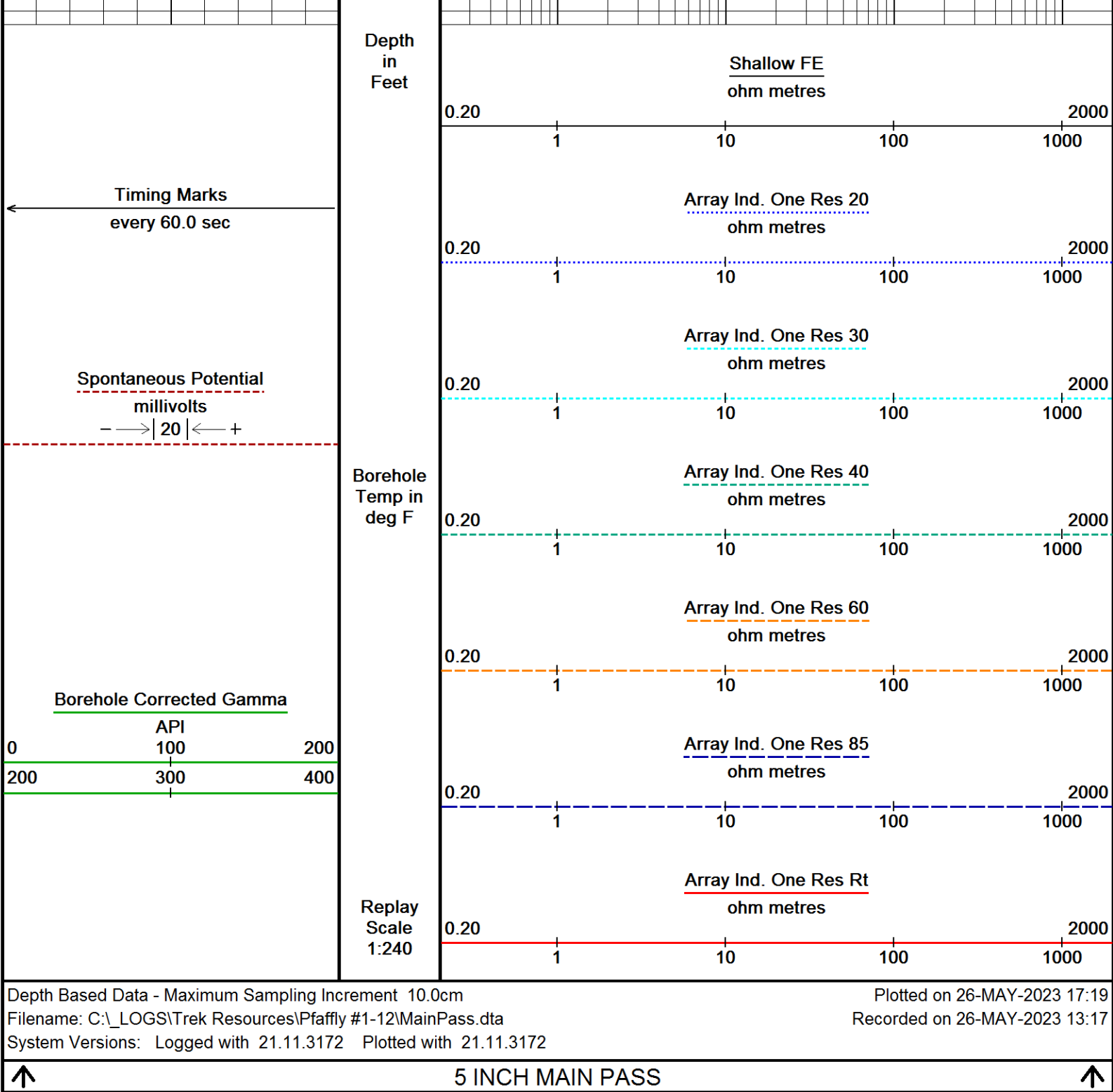
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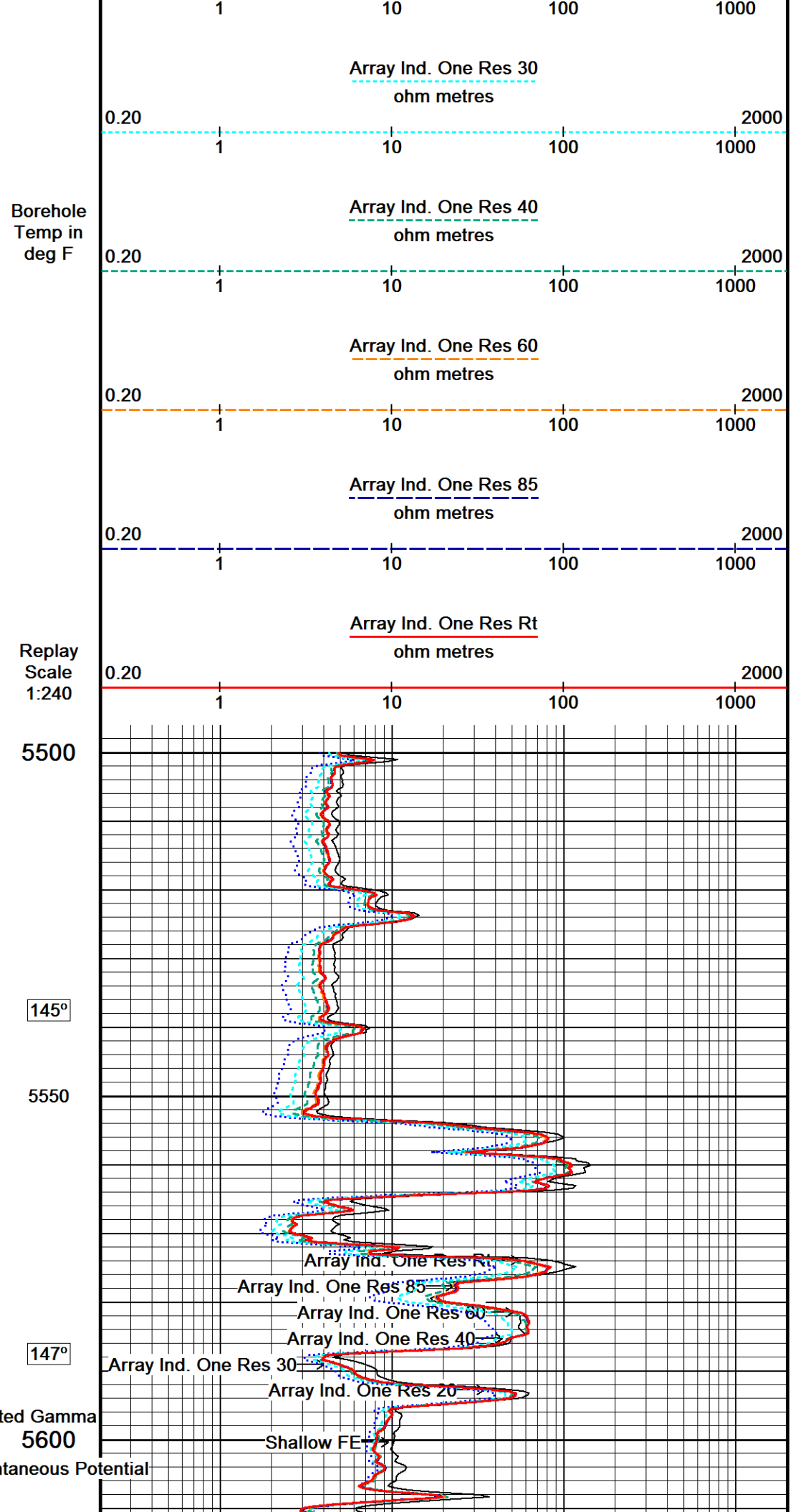
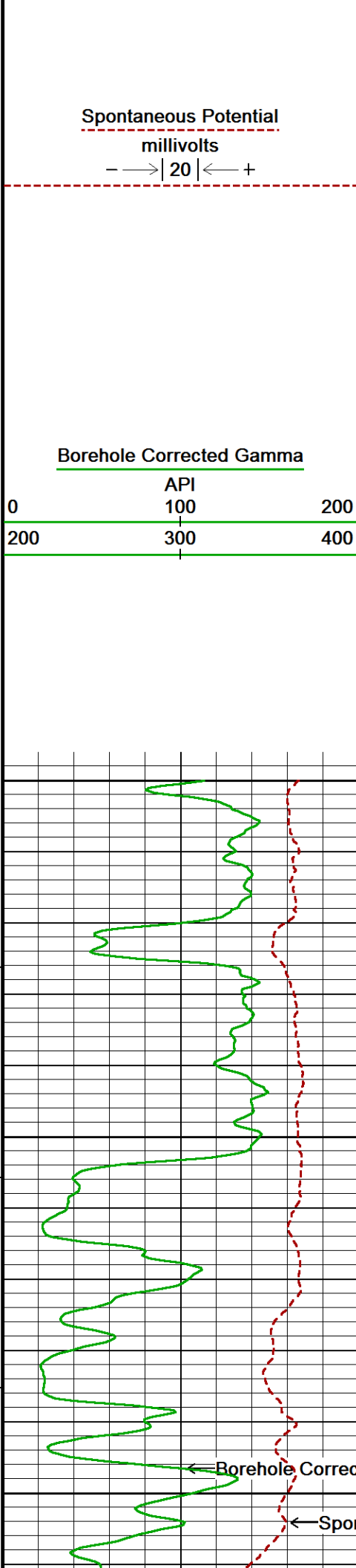
152°

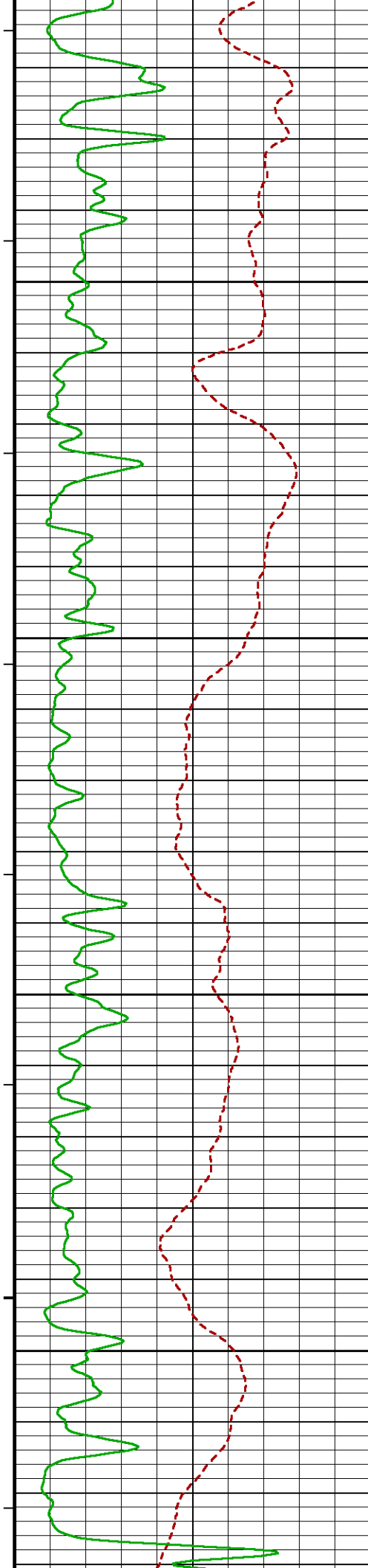
5850











147°

5650

148°

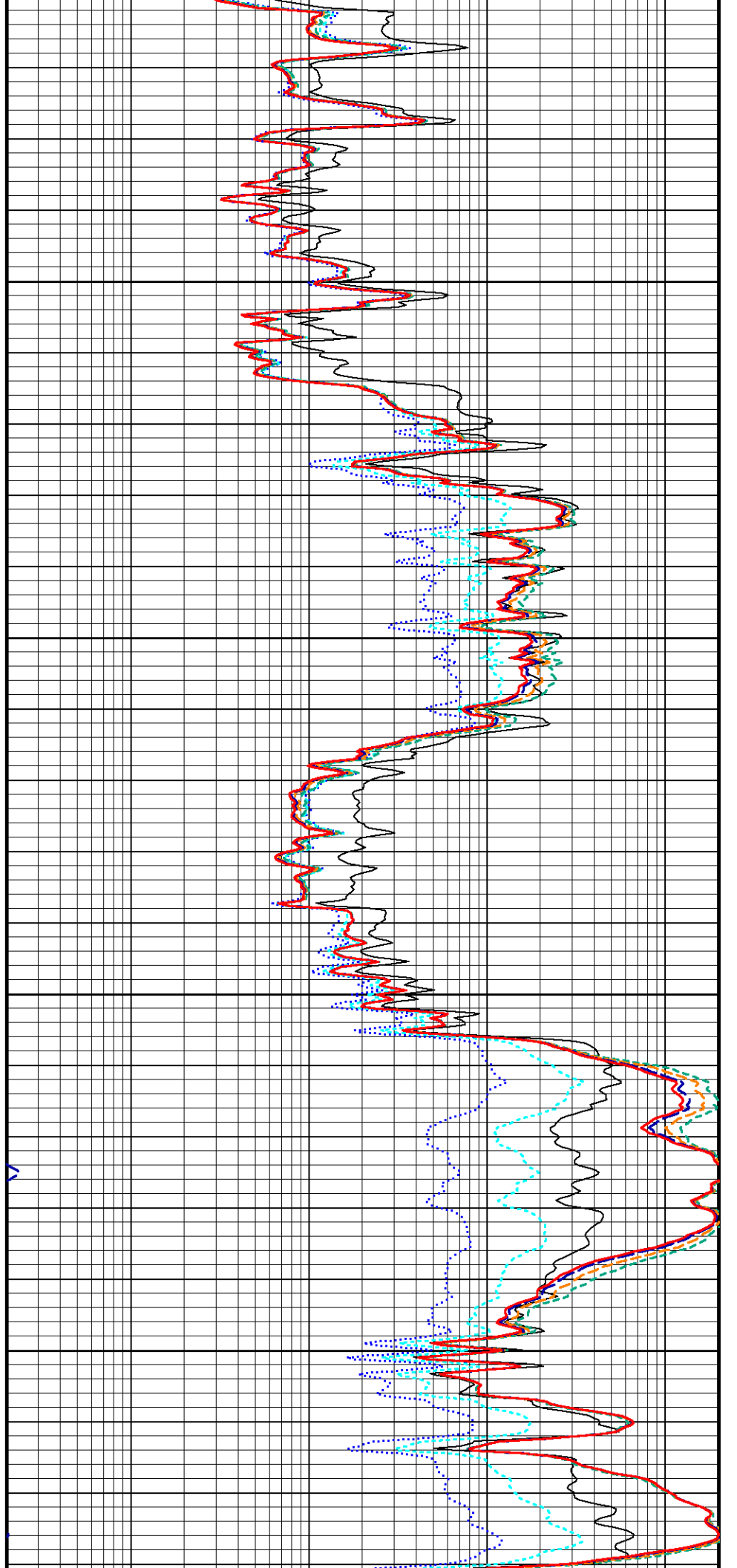
5700

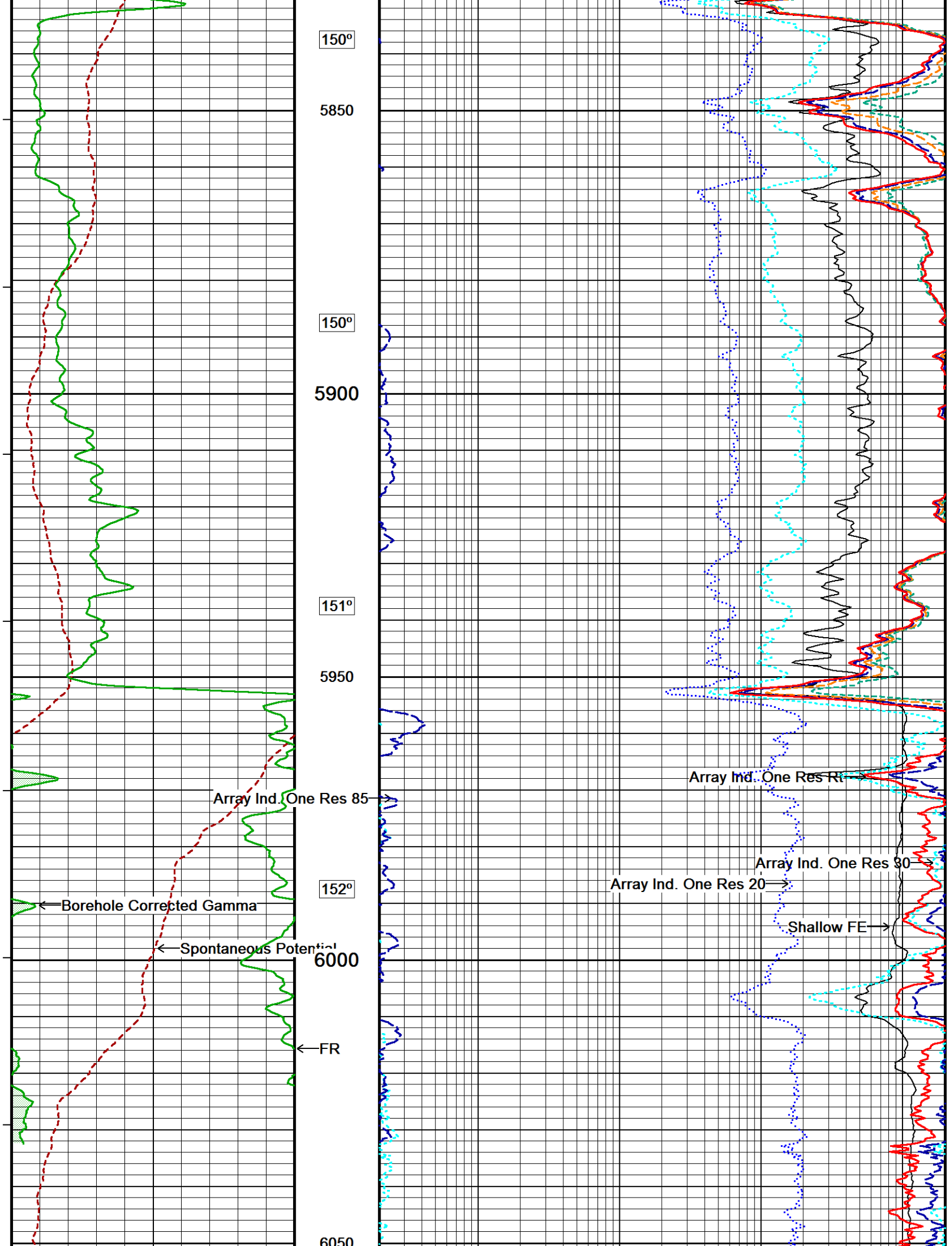
149°

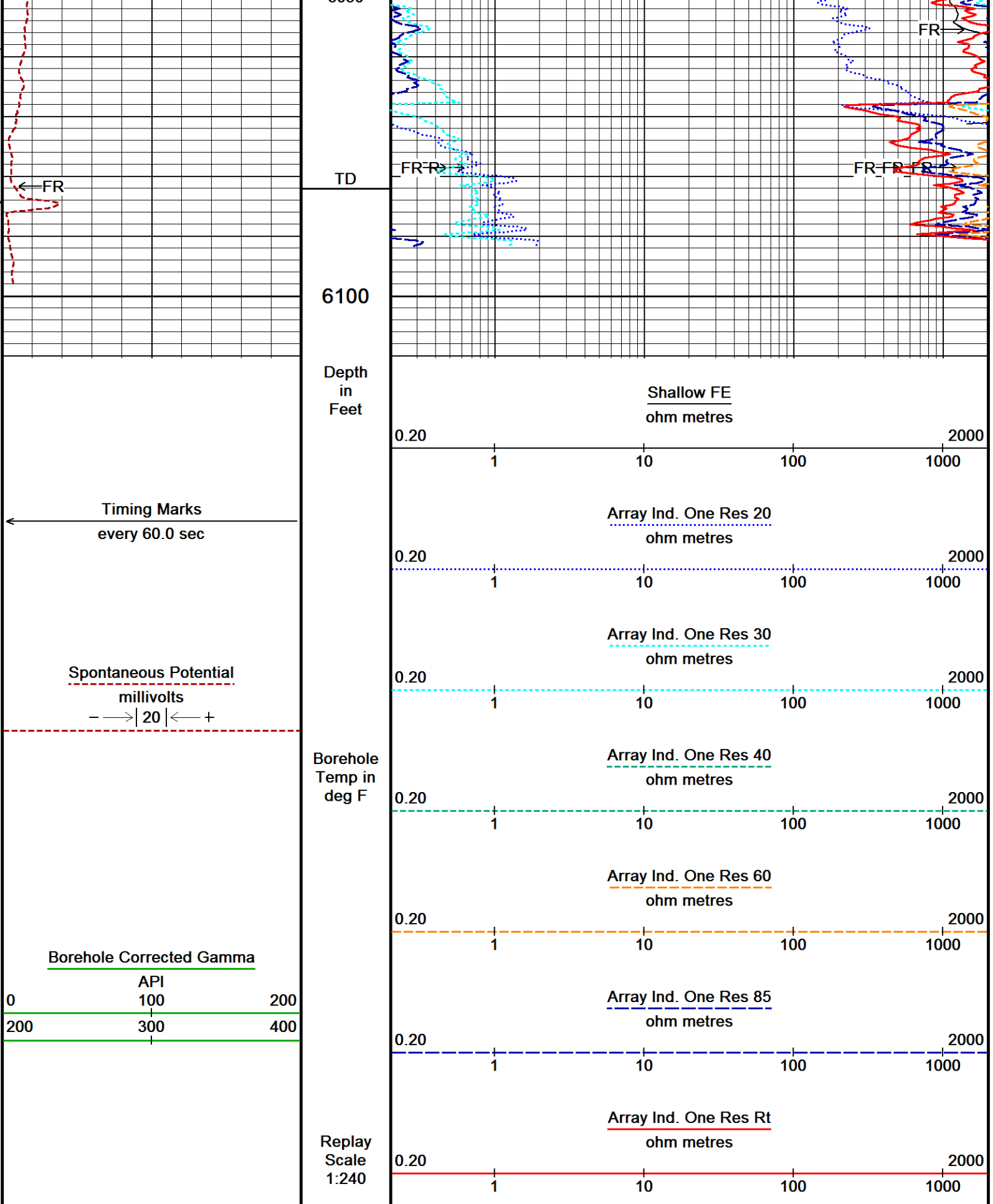
5750

149°

5800







BEFORE SURVEY CALIBRATION

C:_LOGS\Trek Resources\Pfaffly #1-12\Downlog.dta

General Constants All 000

Last Edited on 26-MAY-2023,10:48

General Parameters

Mud Resistivity	2.000	ohm-metres
Mud Resistivity Temperature	75.000	degrees F
Water Level	0.000	feet
Borehole Fluid Processing	Wet Hole	

Hole/Annular Volume and Differential Caliper Parameters

HVOL Method	Single Caliper	
HVOL Caliper 1	Density Caliper	
HVOL Caliper 2	N/A	
Annular Volume Diameter	5.500	inches
Caliper for Differential Caliper	Density Caliper	

Rwa Parameters

Porosity used	Sandstone Density Por.
Resistivity used	Array Ind. One Res Rt
RWA Constant A	0.650
RWA Constant M	2.150
SW/APOR Tool Source	0.000

Down-hole Tension Calibration SMS 0

Field Calibration on 02-JAN-2023 20:52

Reading No	Measured	Calibrated (lbs)
1	13434.99	100.00
2	14476.43	500.00

Gamma Calibration MCG-E.A 551

Field Calibration on 05-JAN-2023 19:58

	Measured	Calibrated (API)
Background	104	68
Calibrator (Gross)	912	593
Calibrator (Net)	808	525

Gamma Calibration Tolerances MCG-E.A 551

Ratio	1.539	<div> <div>1.40</div> <div>1.475</div> <div>1.55</div> </div>	Counts/API
-------	-------	---	------------

Gamma Constants MCG-E.A 551

Last Edited on 26-MAY-2023,10:49

Gamma Calibrator Number	111	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.09	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

High Resolution Temperature Constants MCG-E.A 551

Pre-filter Length	11
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Micro-Resistivity Caliper Constants MMR-C.A 257

Sonde Configuration	Resistivity Mode
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Micro Laterolog Calibration MMR-C.A 257

Base Calibration on 31-MAY-2021 11:30

Field Check on 31-MAY-2021 11:32

	Resistor 1 (ohm)	Resistor 2 (ohm)
	0.0	10000.0
Base Calibration		
	Measured	Calibrated (ohm-m)
	Ref 1 Ref 2	Ref 1 Ref 2
	0.0 9858.5	0.0 128.0
	Base Check (ohm-m)	Field Check (ohm-m)
	5.2	5.2

Micro Laterolog Calibration Tolerances MMR-C.A 257

Ref 2	9858.5	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm
Base Check	5.2	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm-m
Field Check	5.2	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm-m

Micro Laterolog Constants MMR-C.A 257

Last Edited on 14-OCT-2020,10:32

Pad Type	6 in Solid Nylon B23059	
Standoff Offset	0.5000	inches
Micro Laterolog K Factor	0.0128	
Micro Laterolog Rm K Factor	N/A	

Mudcake Thickness Correction Constants

Mud Cake Source	Differential Caliper	
Mud Cake Thickness	N/A	inches
Mud Cake Thickness Caliper	MMR Caliper	
Mud Cake Resistivity	0.0470	ohm-m
Mud Cake Resistivity Temp.	72.00	Deg F
Mud Cake Resistivity Source	Temperature Corr	
Temp. for Rmc Corr.	MCG External Temperature	

Micro Normal and Micro Inverse Calibration MMR-C.A 257

Base Calibration on 01-AUG-2022 09:16
Field Check on 01-AUG-2022 09:19

	Resistor 1 (ohm)	Resistor 2 (ohm)	
	10.0	50.0	
Base Calibration			
	Measured	Calibrated (ohm-m)	
Micro Normal	9.9 49.4	5.1100 25.5500	
Micro Inverse	9.9 49.4	3.3800 16.9000	
Channel	Base Check (ohm-m)	Field Check (ohm-m)	
Micro Normal	94.2	94.2	
Micro Inverse	62.2	62.2	

Micro Normal & Micro Inverse Calibration Tolerance MMR-C.A 257

Micro Normal Res. 1	9.9	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm	Micro Normal Res. 2	49.4	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm
Micro Inverse Res. 1	9.9	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm	Micro Inverse Res. 2	49.4	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm
Micro Normal Base Check	94.2	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm-m				
Micro Inverse Base Check	62.2	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm-m				
Micro Normal Field Check	94.2	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm-m				
Micro Inverse Field Check	62.2	<div><div></div><div></div><div></div><div></div><div></div></div>	ohm-m				

Micro Normal and Micro Inverse Constants MMR-C.A 257

Last Edited on 26-APR-2022,09:39

Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159	
Micro Normal K Factor	0.5110	
Micro Inverse K Factor	0.3380	
Standoff Offset	0.0000	inches

Caliper Calibration MMR-C.A 257

Base Calibration on 01-AUG-2022 09:25
Field Calibration on 01-AUG-2022 09:27

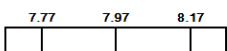
Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	13492	5.96
2	16878	7.97
3	19935	9.86
4	24282	11.88
5	0	0.00
6	N/A	N/A

Field Calibration

Measured Caliper (in)
7.98

Actual Caliper (in)
7.97

Caliper Calibration Tolerances MMR-C.A 257

Short Arm Field Cal. 7.98  in

Neutron Calibration MDN-C.A 399

Base Calibration on 29-JUL-2022 09:58
Field Check on 29-JUL-2022 10:13

Base Calibration

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Ratio	3211	100	3714	110
	32.104		33.764	

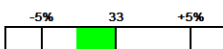
Field Calibrator at Base

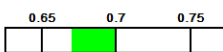
	Calibrated (cps)	
	Near	Far
Ratio	1897	2833
	0.670	

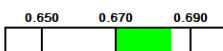
Field Check

	Calibrated (cps)	
	Near	Far
Ratio	1941	2836
	0.685	

Neutron Calibration Tolerances MDN-C.A 399

Ratio 32.104 

Base Check 0.670 

Field Check 0.685 

Neutron Constants MDN-C.A 399

Last Edited on 26-MAY-2023,10:50

Neutron Source Id	N-1054	
Neutron Jig Number	NJ5239	
Air Hole Processing	Modified Ratio	
Caliper Source for Processing	Density Caliper	
Stand-off	0.00	inches
Mud Density	1.00	gm/cc
Limestone Sigma	7.10	cu
Sandstone Sigma	4.26	cu
Dolomite Sigma	4.70	cu
Formation Pressure Source	None	
Formation Pressure	N/A	kpsi
Temperature Source	None	
Temperature	N/A	degrees F
Mud Salinity	0.00	kppm
Salinity Correction	Not Applied	
Formation Fluid Salinity Source	None	
Formation Fluid Salinity	N/A	kppm
Barite Mud Correction	Not Applied	

Caliper Calibration MVC-A.A 146

Base Calibration on 02-JUN-2022 17:38
Field Calibration on 04-OCT-2021 17:31

Base Calibration

Reading No	Measured	Calibrator Size (in)
1	10520	4.01
2	17524	5.96
3	24857	7.97
4	31500	9.86
5	38770	11.88
6	N/A	N/A

Field Calibration

Measured Caliper (in)	Actual Caliper (in)
8.62	7.97

FE Calibration MFE-C.A 399

Base Calibration on 05-AUG-2022 09:34
Field Check on 05-AUG-2022 09:39

Resistor 1 (ohm)	Resistor 2 (ohm)
0.0	1000.0

Base Calibration		
	Measured	Calibrated (ohm-m)
Reference 1	0.0	0.0
Reference 2	964.9	126.8
Base Check		281.0
Field Check		281.0

FE Calibration Tolerances MFE-C.A 399		
Reference 2	964.9	<div> <div>-3%</div> <div>980.0</div> <div>+3%</div> </div> <div>ohm</div>
Base Check	281.0	<div> <div>-2%</div> <div>277.0</div> <div>+2%</div> </div> <div>ohm-m</div>
Field Check	281.0	<div> <div>-2%</div> <div>281.0</div> <div>+2%</div> </div> <div>ohm-m</div>

FE Constants MFE-C.A 399		Last Edited on 26-MAY-2023,10:51	
Running Mode	No Sleeve		
MFE K Factor	0.1268		
Borehole Correction Constants			
Sonde Position	1.0	inches	
Hole Size Source	Density Caliper		
Hole Size Constant Value	N/A	inches	
Rm Source	Global Value: Temperature Corrected		
Temp. for Rm Corr.	MCG External Temperature		

Sonic Constants MSS-D.A 398			Last Edited on 26-MAY-2023,10:51		
Maximum Boundary Contrast	70.00	micro-sec/ft			
Fluid Transit Time	189.00	micro-sec/ft			
Limestone Transit Time	47.60	micro-sec/ft			
Sandstone Transit Time	55.50	micro-sec/ft			
Dolomite Transit Time	43.50	micro-sec/ft			
Sonic used for Porosities	3-5' Compensated Sonic				
Correction for Sonde Skew	Applied				
Cycle Stretch Algorithm	Applied				
MN3FT	N/A	micro-sec			
MX3FT	N/A	micro-sec			
Hunt-Raymer Constant	83.13	micro-sec/ft			
Sonde Mode	Compensated				
Hole Type	Open Hole				
Sonde Parameters					
	Measured	Calibrated			
Offset		0.0000			
Free Pipe	N/A	N/A			
Peak Amplitude Source	N/A				
Waveform	Start Time (micro-sec)	Width (micro-sec)	Pre Gain	Start Gain	Discriminator (mV)
3'	N/A	N/A	N/A	N/A	N/A
4'	N/A	N/A	N/A	N/A	N/A
5'	N/A	N/A	N/A	N/A	N/A
6'	N/A	N/A	N/A	N/A	N/A
Processed Fixed Gate Parameters					
Waveform Used For Processing	N/A				
Start Time (micro-sec)	End Time (micro-sec)	Discriminator (mV)	N/A		
N/A	N/A	N/A			
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A		
Full Waveform Parameters					

Use 3' Waveform to derive TR	N/A	
Use 4' Waveform to derive TR	N/A	
Use 5' Waveform to derive TR	N/A	
Use 6' Waveform to derive TR	N/A	
3' Waveform Discriminator Level	N/A	mV
4' Waveform Discriminator Level	N/A	mV
5' Waveform Discriminator Level	N/A	mV
6' Waveform Discriminator Level	N/A	mV

Waveform Discriminator Filter	N/A	
Semblance Window Width	N/A	micro-sec
Semblance Processing Enabled	N/A	
Tracking Boxes Enabled In Processing	N/A	

Induction Calibration MAI-C.A 490

Factory Loop Calibration 17-DEC-2012,20:04

Field Check on 10-MAY-2022 15:43

Factory Loop Calibration

High Conductivity Reference Resistor	3.3	ohm
Low Conductivity Reference Resistor	333.3	ohm

Array	Measured Signal (unitless)		Reference Conductivity (mmho/m)		Calibration	
	Low	High	Low	High	Gain	Offset
1 (near)	15.2	455.2	9.3	966.2	0.000	0.0
2	5.9	373.9	7.6	821.4	0.000	0.0
3	3.7	251.6	5.2	566.0	0.000	0.0
4 (far)	1.8	128.7	2.6	279.2	0.000	0.0
Array Temperature	75.6		Deg F			

Tool Checks

10-MAY-2022 15:40

Array	Factory Reference (mmho/m)		Before Survey (mmho/m)		
	Low	High	Low	High	
1 (near)	-2.2	2114.9	-2.2	2114.9	
2	14.0	1921.9	13.9	1922.0	
3	14.0	1678.9	14.0	1679.0	
4 (far)	10.3	1145.1	10.3	1145.2	
Array Temperature	89.0		89.2		Deg F

Tool Zero Corrections

Array		
1 (near)	0.0	mmho/m
2	0.0	mmho/m
3	0.0	mmho/m
4 (far)	0.0	mmho/m

Induction Check Tolerances MAI-C.A 490

Low Array 1	-2.2	<div><div>-3.7</div><div>-2.2</div><div>-0.7</div></div>	mmho/m	High Array 1	2114.9	<div><div>-0.5%</div><div>2114.9</div><div>+0.5%</div></div>	mmho/m
Low Array 2	13.9	<div><div>12.5</div><div>14.0</div><div>15.5</div></div>	mmho/m	High Array 2	1922.0	<div><div>-0.5%</div><div>1921.9</div><div>+0.5%</div></div>	mmho/m
Low Array 3	14.0	<div><div>12.5</div><div>14.0</div><div>15.5</div></div>	mmho/m	High Array 3	1679.0	<div><div>-0.5%</div><div>1678.9</div><div>+0.5%</div></div>	mmho/m
Low Array 4	10.3	<div><div>8.8</div><div>10.3</div><div>11.8</div></div>	mmho/m	High Array 4	1145.2	<div><div>-0.5%</div><div>1145.1</div><div>+0.5%</div></div>	mmho/m

Induction Constants MAI-C.A 490

Last Edited on 26-MAY-2023,10:52

Induction Model	RtAP-NC	
Borehole Correction Constants		
Tool Centred	No	
Hole Size Source	Density Caliper	
Hole Size Constant Value	N/A	inches
Stand-off Type	Fins	
Stand-off	1.00	inches
Number of Fins on Stand-off	6.0000	
Stand-off Fin Angle	60.00	degrees
Stand-off Fin Width	0.5000	inches
Rm Source	Global Value: Temperature Corrected	
Temp. for Rm Corr.	MCG External Temperature	
Borehole Correction Method	Default	

Squasher Start		0.0020	mhos/metre
Squasher Offset		N/A	mhos/metre
Borehole Normalisation			
DRM1	0.0000	DRC1	0.0000
DRM2	0.0000	DRC2	0.0000
MRM1	0.0000	MRC1	0.0000
MRM2	0.0000	MRC2	0.0000
SRM1	0.0000	SRC1	0.0000
SRM2	0.0000	SRC2	0.0000
Calibration Site Corrections			
Channel 1		0.00	mmhos/metre
Channel 2		0.00	mmhos/metre
Channel 3		0.00	mmhos/metre
Channel 4		0.00	mmhos/metre
Symmetrised Receiver Gains			
Receiver 1		1.00	
Receiver 2		1.00	
Receiver 3		1.00	
Receiver 4		1.00	
Apparent Porosity and Water Saturation Constants			
Archie Constant (A)		1.00	
Cementation Exponent (M)		2.00	
Saturation Exponent (N)		2.00	
Saturation of Water for Apor		100.00	percent
Resistivity of Water for Apor and Sw		0.05	ohm-m
Resistivity of Mud Filtrate for Sw		0.00	ohm-m
Source for Rt		0.00	
Source for Rxo		0.00	
High Resolution Temperature Calibration MAI-C.A 490			
			Field Calibration on 17-DEC-2012,07:08
	Measured	Calibrated(Deg C)	
Lower	10.00	10.00	
Upper	100.00	100.00	
High Resolution Temperature Constants MAI-C.A 490			
			Last Edited on 17-DEC-2012,20:09
Pre-filter Length		11	
Caliper Calibration MPD-C.J 438			
			Base Calibration on 23-NOV-2022 17:09
			Field Calibration on 23-NOV-2022 17:11
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	18016	4.01	
2	26550	5.96	
3	35550	7.97	
4	43664	9.86	
5	52830	11.88	
6	N/A	N/A	
Field Calibration			
	Measured Caliper (in)	Actual Caliper (in)	
	7.98	7.97	
Caliper Calibration Tolerances MPD-C.J 438			
Long Arm Field Cal.	7.98	<div> <div>7.57</div> <div>7.97</div> <div>8.38</div> </div>	in
Photo Density Calibration MPD-C.J 438			
			Base Calibration on 05-JAN-2023 19:32
Density Calibration			
Base Calibration	Measured	Calibrated (sdu)	
	Near	Far	Near Far
Background	979	1141	
Reference 1	43581	20480	59814 31141
Reference 2	18113	2081	24963 2524
Field Check at Base			

979.0 1140.8

Field Check

PE Calibration

Base Calibration

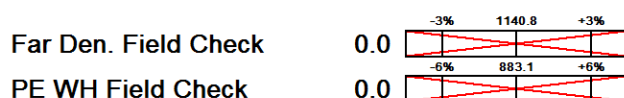
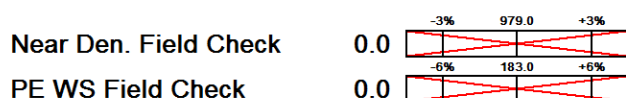
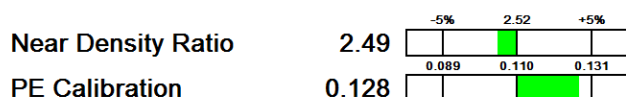
	WS	Measured WH	Ratio	Calibrated Ratio
Background	183	883		
Reference 1	19121	43442	0.445	0.368
Reference 2	5547	18008	0.313	0.273

Field Check at Base

183.0 883.1

Field Check

Photo Density Calibration Tolerances MPD-C.J 438



Density Constants MPD-C.J 438

Last Edited on 26-MAY-2023,10:51

Density Source Id	H79956B	
Nylon Calibrator Number	DNCE 687	
Aluminium Calibrator Number	DACD 526	
Density Shoe Profile	8 inch	
Caliper Source for Processing	Density Caliper	
PE Correction to Density	Not Applied	
Mud Density	1.09	gm/cc
Mud Density Type	Non-Barite	
Mud Filtrate Density	1.00	gm/cc
Dry Hole Mud Filtrate Density	1.00	gm/cc
DNCT	0.00	gm/cc
CRCT	0.00	gm/cc
Density Z/A Correction	Hybrid	
Precision Enhanced Density Processing	Not Applied	

Matrix Density (gm/cc)	Depth (ft)
2.65	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00
0.00	0.00

DOWNHOLE EQUIPMENT

C:_LOGS\Trek Resources\Pfaffly #1-12\MainPass.dta

Cablehead, 11 pin
CBH-CC 348 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

11C-11B Compact Tool Adaptor
MTA-K.A 189 LG: 1.53 ft WT: 13.2 lb OD: 2.240 in

Compact Comms Gamma
MCG-E.A 551 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-Resistivity



66.24 ft GGCE - MCG BH Corrected Gamma

63.34 ft CGXT - MCG External Temperature

MMR-C.A 257 LG: 8.59 ft WT: 81.6 lb OD: 4.882 in

Compact Neutron

MDN-C.A 399 LG: 5.04 ft WT: 50.7 lb OD: 2.244 in

Compact Density/Caliper

MPD-C.J 438 LG: 9.59 ft WT: 90.4 lb OD: 2.449 in

Compact Vee Arm Caliper

MVC-A.A 146 LG: 8.06 ft WT: 61.7 lb OD: 2.244 in

Compact Knuckle Joint

SKJ-E.B 694 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Focussed Electric

MFE-C.A 399 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

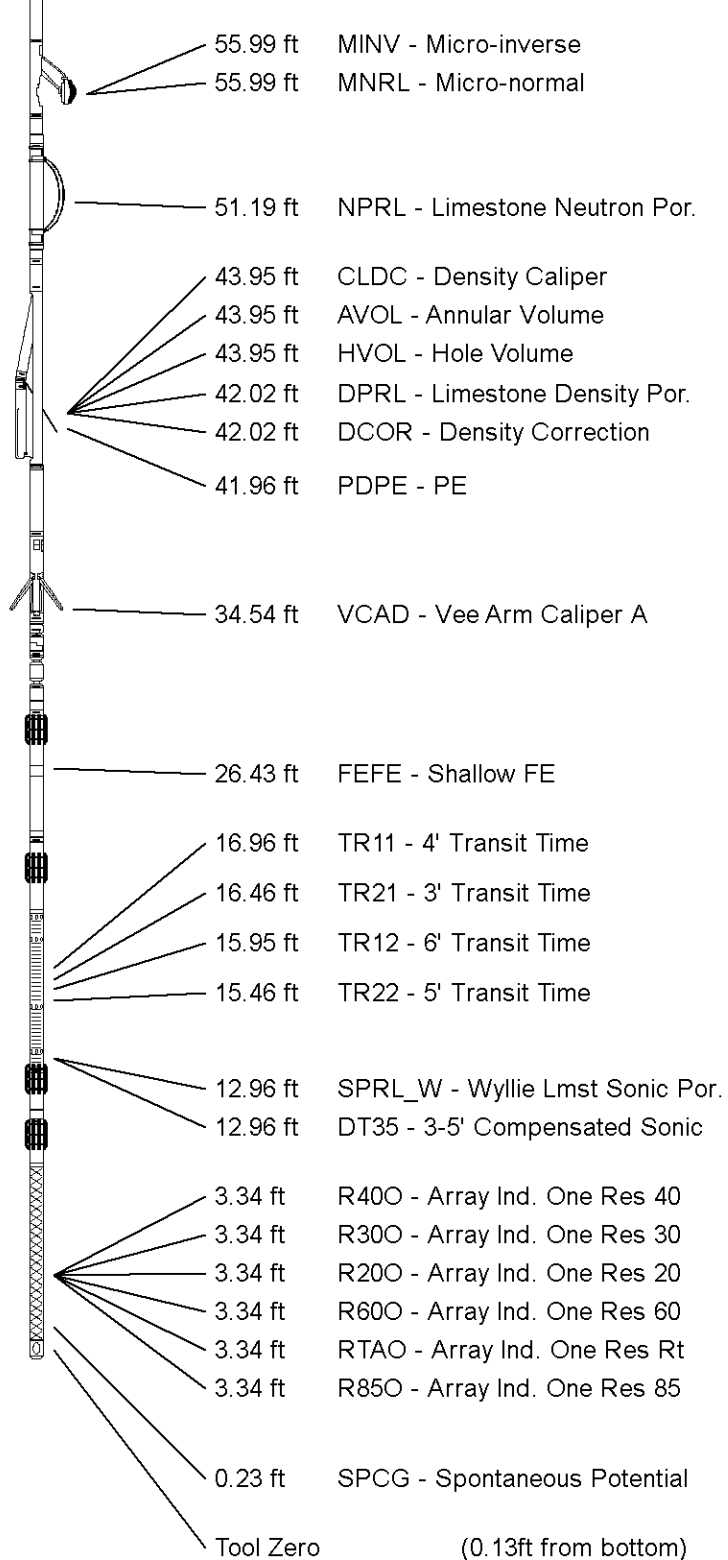
Compact Sonic

MSS-C.K 374 LG: 12.52 ft WT: 72.8 lb OD: 2.244 in

Compact Induction

MAI-C.A 490 LG: 10.81 ft WT: 48.5 lb OD: 2.244 in

Total Length: 75.45 ft Weight: 579.8 lb



All measurements relative to tool zero.

COMPANY

NAVEX RESOURCES LLC

WELL

PFAFFLY #1-12

FIELD

NORTH CHEYENNE PROJECT/ PFAFFLY PROSPECT

PROVINCE/COUNTY

KIT CARSON

COUNTRY/STATE

COLORADO

Elevation Kelly Bushing	4479.00	feet
Elevation Drill Floor	4479.00	feet
Elevation Ground Level	4466.90	feet

Last Reading	648.00	feet
First Reading	6078.00	feet
Depth Driller	6076.00	feet
Depth Logger	6082.00	feet

1 INCH MAIN PASS

Depth Based Data - Maximum Sampling Increment 10.0cm
 Filename: C:\LOGS\Trek Resources\Pfaffly #1-12\MainPass.dta
 System Versions: Logged with 21.11.3172 Plotted with 21.11.3172

Plotted on 26-MAY-2023 17:19
 Recorded on 26-MAY-2023 13:17

Timing Marks
every 60.0 sec

Density Caliper
inches
6 11 16

Bit Size
inches
6 11 16

Spontaneous Potential
millivolts
-20 20 +

MCG BH Corrected Gamma
API
0 75 150
150 225 300

Array Ind. One Cond Ct
mmhos/metre
1000 750 500 250 0
2000 1750 1500 1250 1000

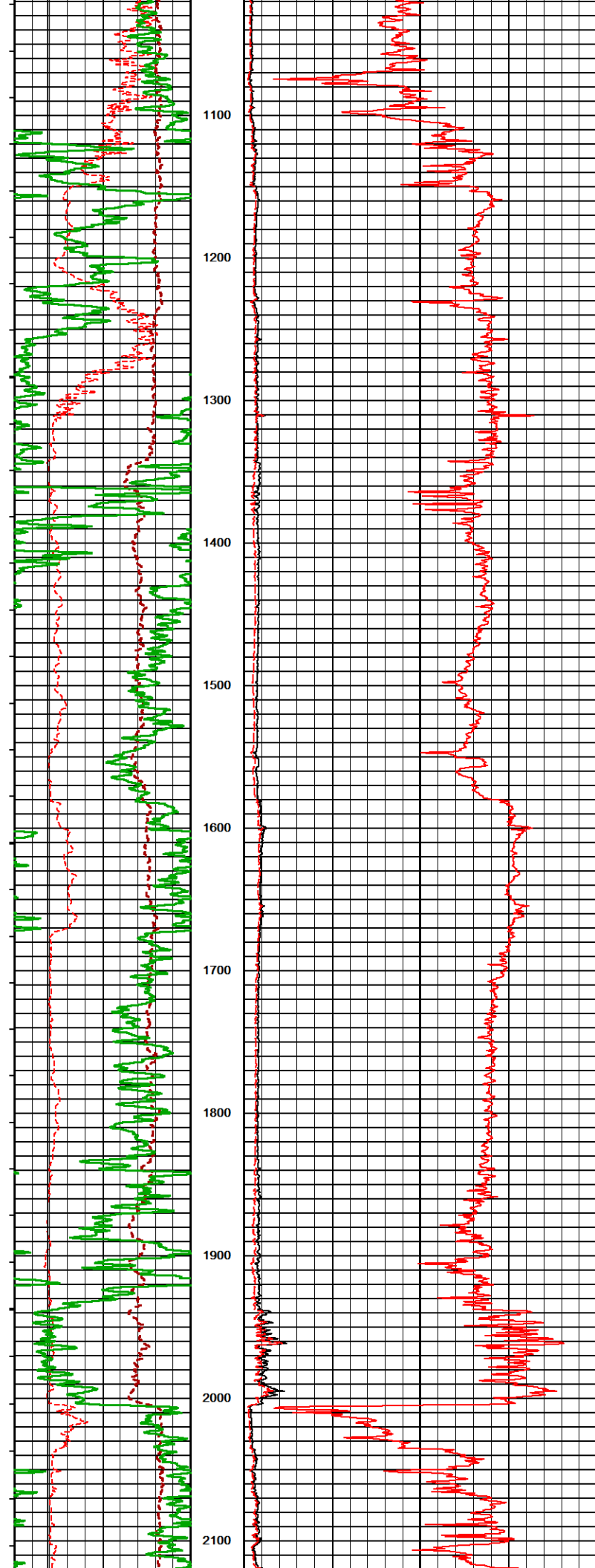
Array Ind. One Res Rt
ohm metres
0 25 50
0 250 500

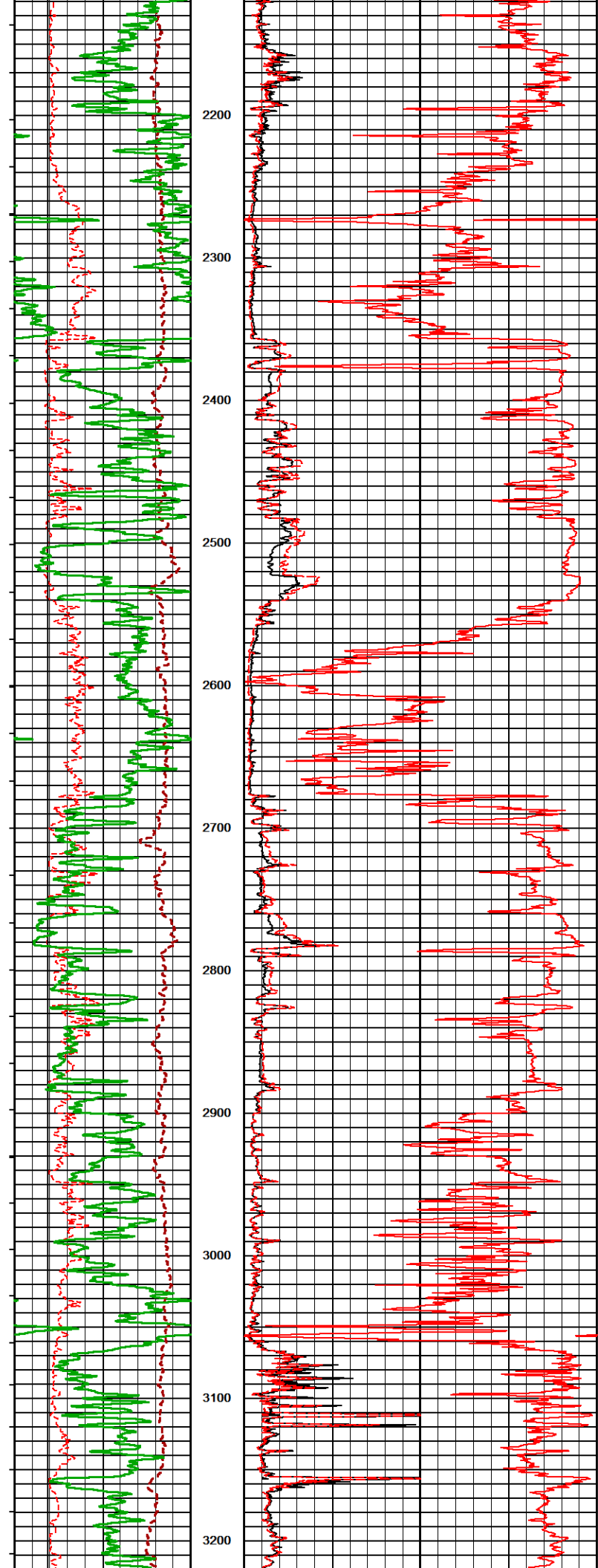
Shallow FE
ohm metres
0 25 50
0 250 500

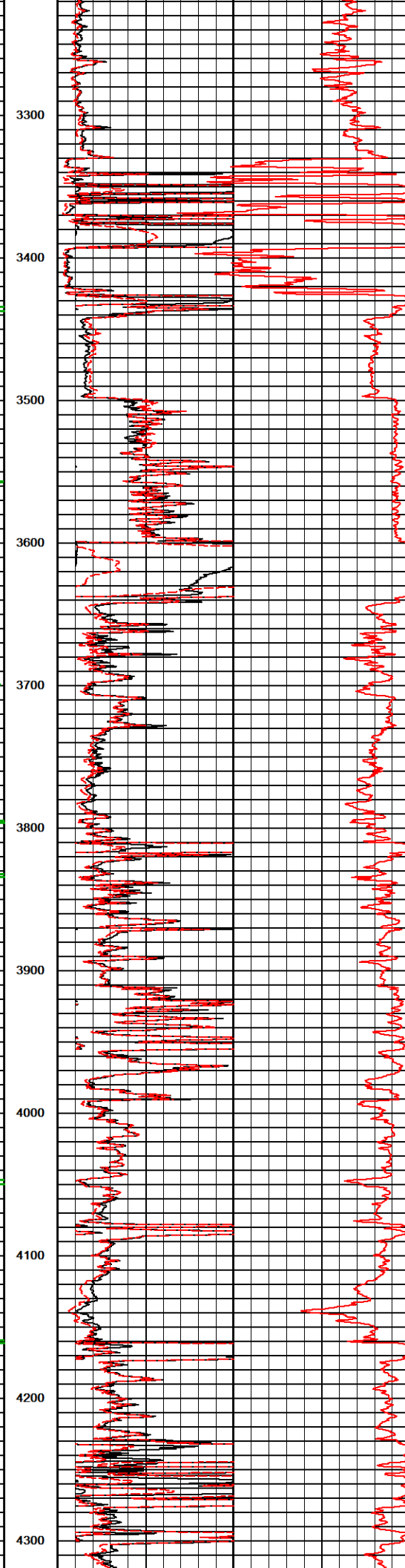
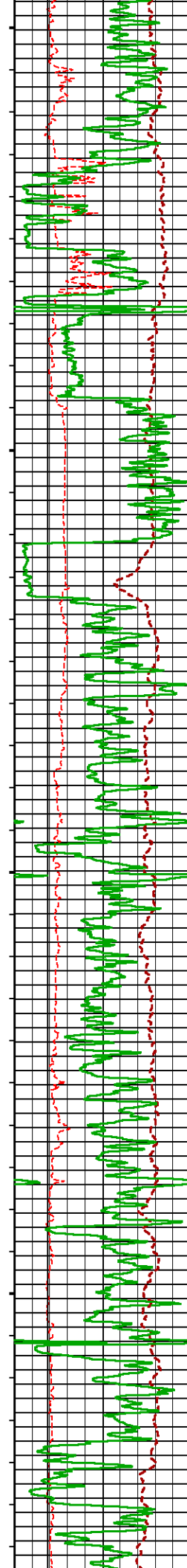
Replay Scale
1:600

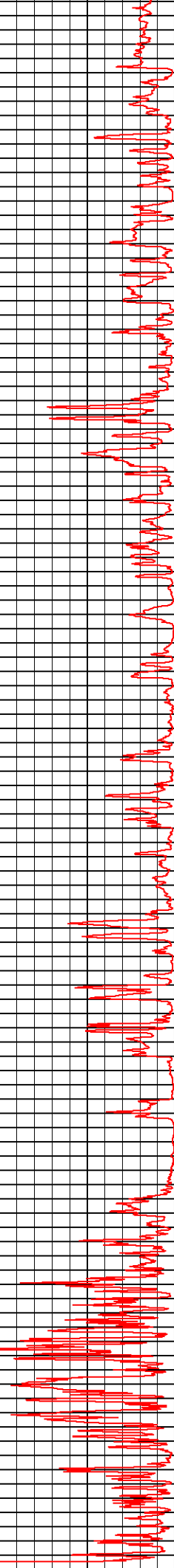
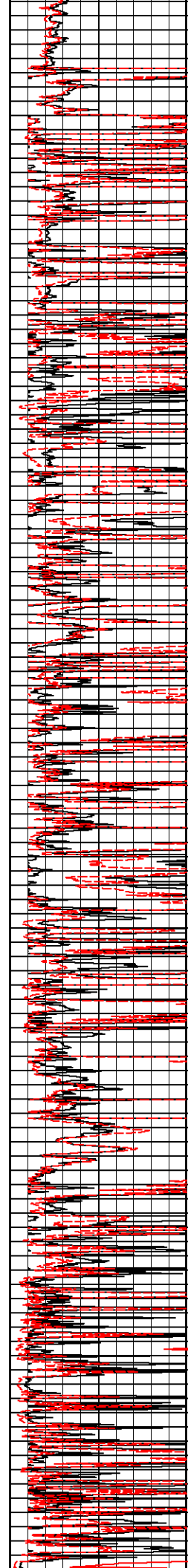
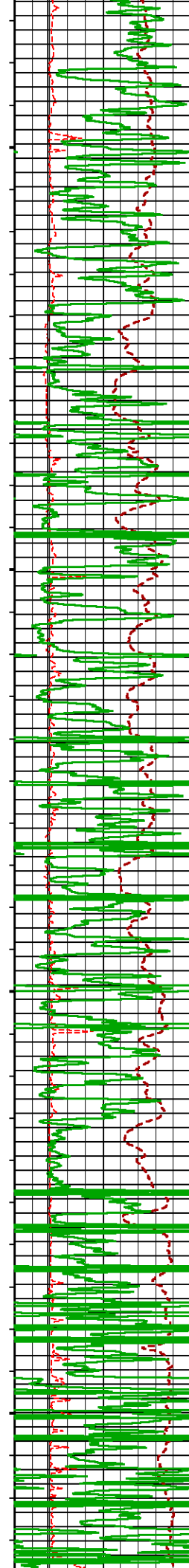
Casing 440 Scribe

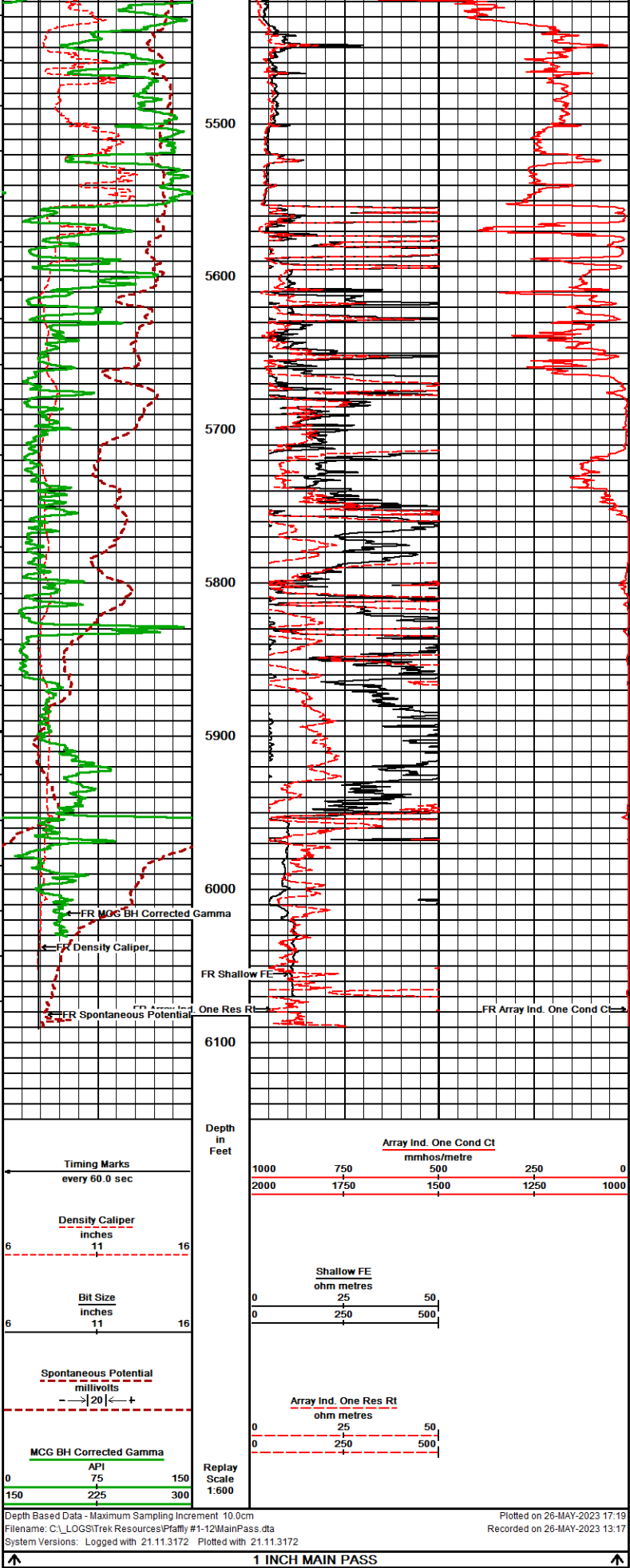
Depth in Feet
700
800
900
1000











COMPANY	NAVEX RESOURCES LLC
WELL	PFAFFLY #1-12
FIELD	NORTH CHEYENNE PROJECT/ PFAFFLY PROSPECT
PROVINCE/COUNTY	KIT CARSON
COUNTRY/STATE	COLORADO

Elevation Kelly Bushing	4479.00	feet	Last Reading	648.00	feet
Elevation Drill Floor	4479.00	feet	First Reading	6078.00	feet
Elevation Ground Level	4466.90	feet	Depth Driller	6076.00	feet
			Depth Logger	6082.00	feet
<div><div><div>WIRELINE</div><div>LOGGING</div><div>SOLUTIONS</div></div><div>ARRAY INDUCTION SHALLOW FOCUSED ELECTRIC LOG</div></div>					