



ARRAY INDUCTION
GAMMA RAY

COMPANY O'BRIEN ENERGY RESOURCES CORP.
WELL PREEDY EAST #4-3
FIELD BORCHERS NW
COUNTY MEADE
STATE U.S.A. / KANSAS
LOCATION 1923' FNL & 371' FWL
SE NW SW NW

SEC 3 TWP 33S RGE 29W Other Services
Latitude 37.207722540 PHOTO-DENSITY NEUTRON
Longitude -100.469754245
API Number 15-119-21470

Permanent Datum GL, Elevation 2610 feet
Log Measured From KB, 12.00 feet above Permanent Datum
Drilling Measured From KB

Date	16-SEPT-2022	Elevations:	KB 2622.00
Run Number	ONE	DF	2621.00
Service Order	T1-220916WFT	GL	2610.00
Depth Driller	6225.00		
Depth Logger	6218.00		
First Reading	6218.00		
Last Reading	1520.00		
Casing Driller	1530.00		
Casing Logger	1525.00		
Bit Size	7.875		
Hole Fluid Type	WBM		
Density / Viscosity	9.30 lb/USg	55.00 sec/qt	
PH / Fluid Loss	11.00	8.00 ml/30Min	
Sample Source	FLOWLINE		
Rm @ Measured Temp	1.42 @ 75.0	ohm-m	
Rmf @ Measured Temp	1.065 @ 75.0	ohm-m	
Rmc @ Measured Temp	1.775 @ 75.0	ohm-m	
Source Rmf / Rmc	CALC	CALC	
Rm @ BHT	0.681 @129.0	ohm-m	
Time Since Circulation	4 HOURS		
Max Recorded Temp	129.00	deg F	
Equipment / Base	10001	OKC	
Recorded By	B. OETTING		
Witnessed By	RODNEY GONZALEZ		
RIG	DUKE RIG1		

BOREHOLE RECORD

Last Edited: 16-SEP-2022 09:11

Bit Size inches	Depth From feet	Depth To feet
12.250	0.00	1530.00
7.875	1530.00	6225.00

CASING RECORD

Type	Size inches	Depth From feet	Shoe Depth feet	Weight pounds/ft
SURFACE	8.625	0.00	1530.00	26.00

REMARKS

WLS VERSION 20.11

- TOOLSTRING:

RUN 1 : TRIPLE COMBO FRESH

- HARDWARE USED:

MAI: 0.5" STANDOFF

MDN: DUAL ECCENTERED BOWSPRING

- 2.71 G/CC DENSITY MATRIX USED TO CALCULATE POROSITY.

- ANNULAR HOLE VOLUME WITH 4.5 INCH PRODUCTION CASING FROM TD TO INTERMEDIATE CASING

- LOGGING INTERVALS REQUESTED: TD - 5500 HI RES

TD - 4000 DETAIL

TD - SFC

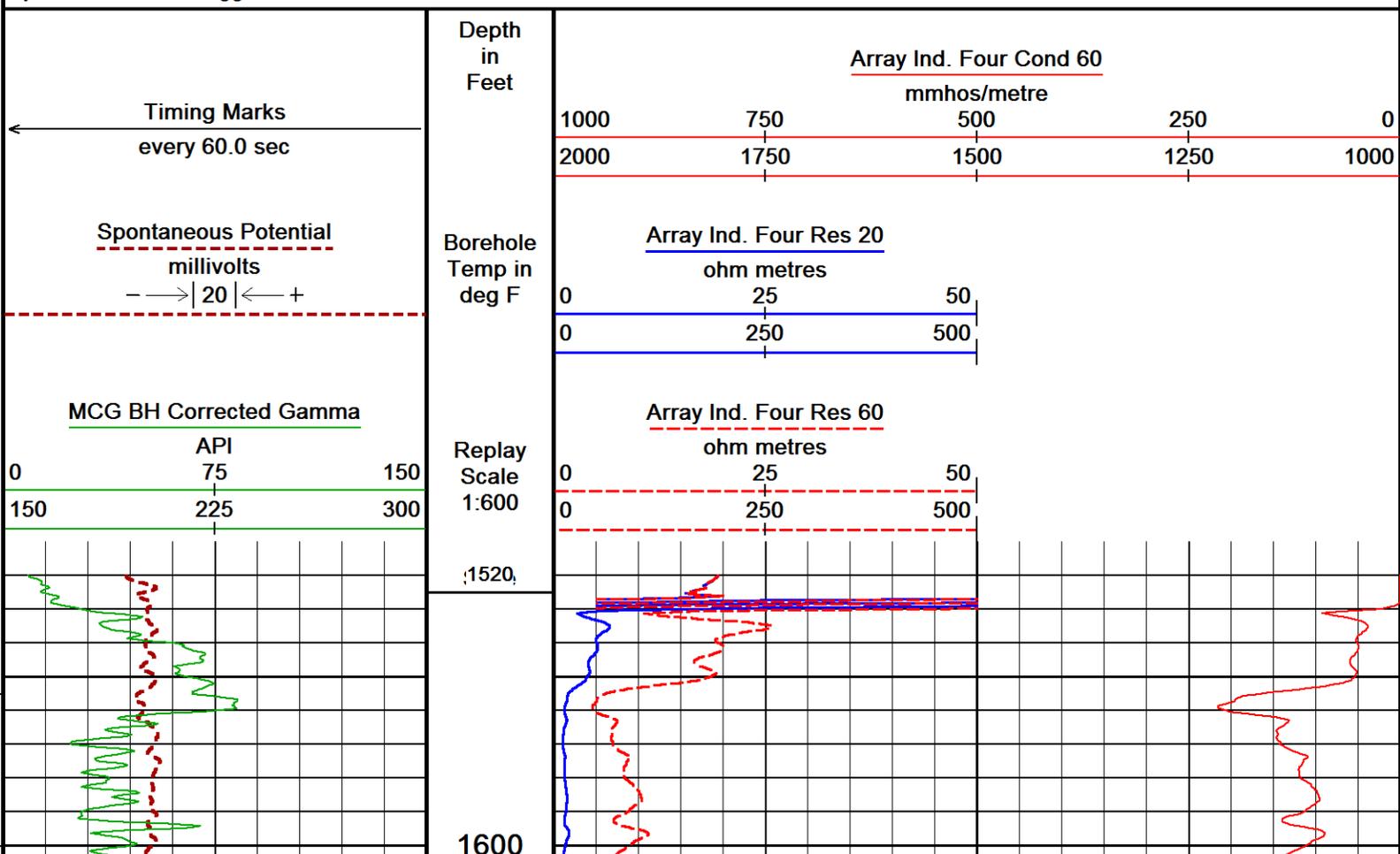
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy of correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

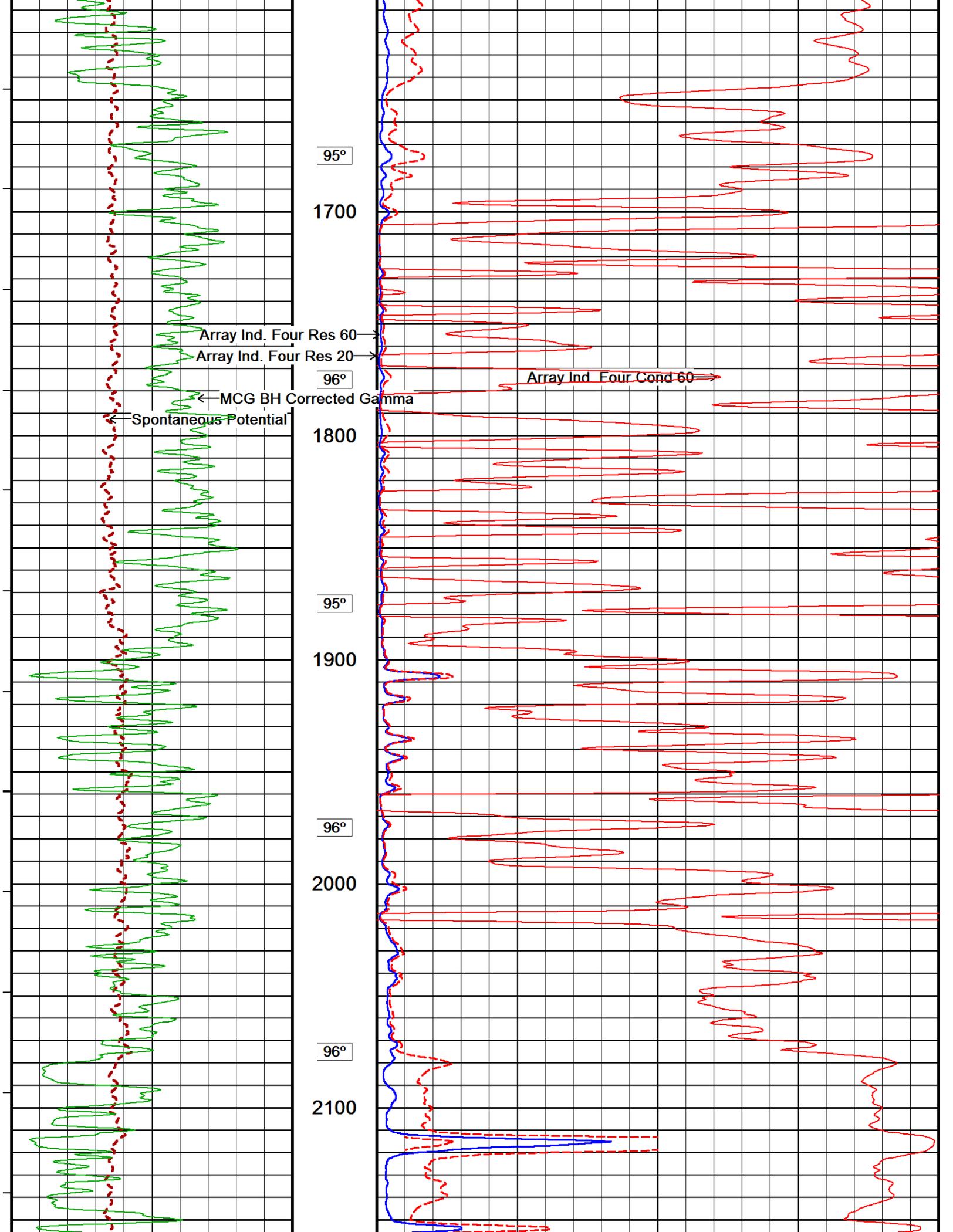
In interpreting, communicating or providing information and/or making recommendations, either written or oral, as to logs or test or other data, type or amount of material, or Work or other service to be furnished, or manner of performance, or in predicting results to be obtained, the Contractor will 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.

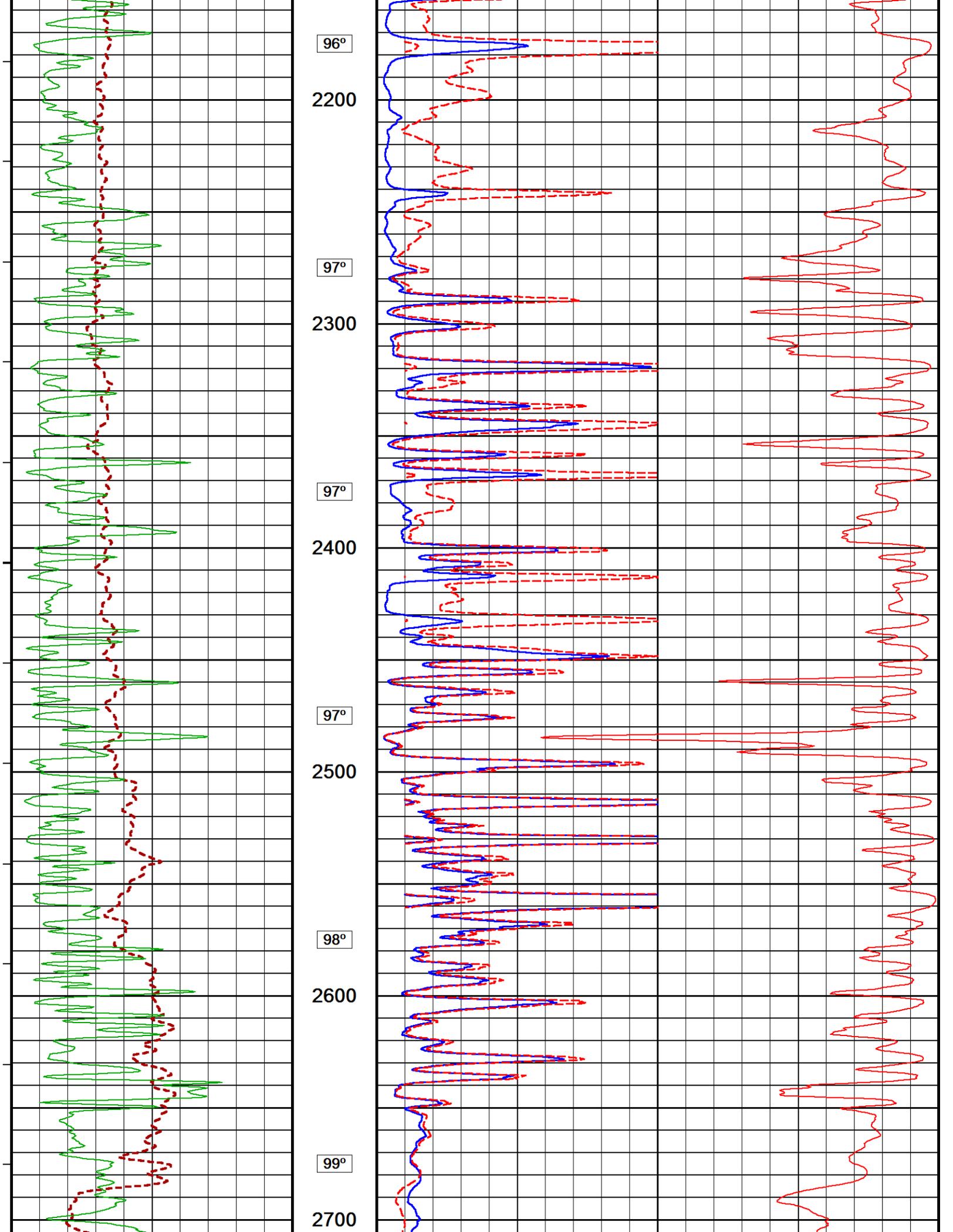
Powered by Weatherford tools, acquisition systems, and software

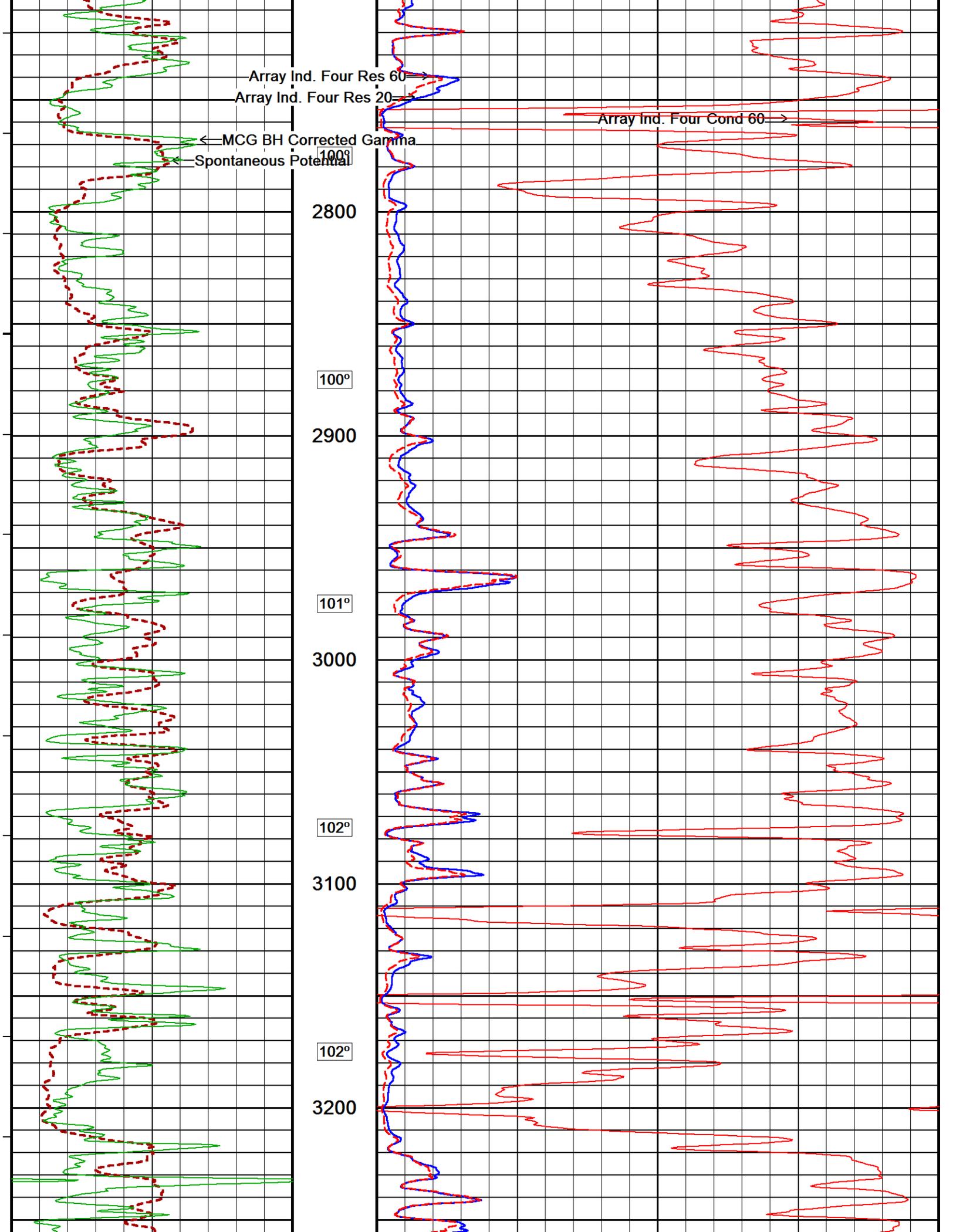
2 INCH MAIN PASS

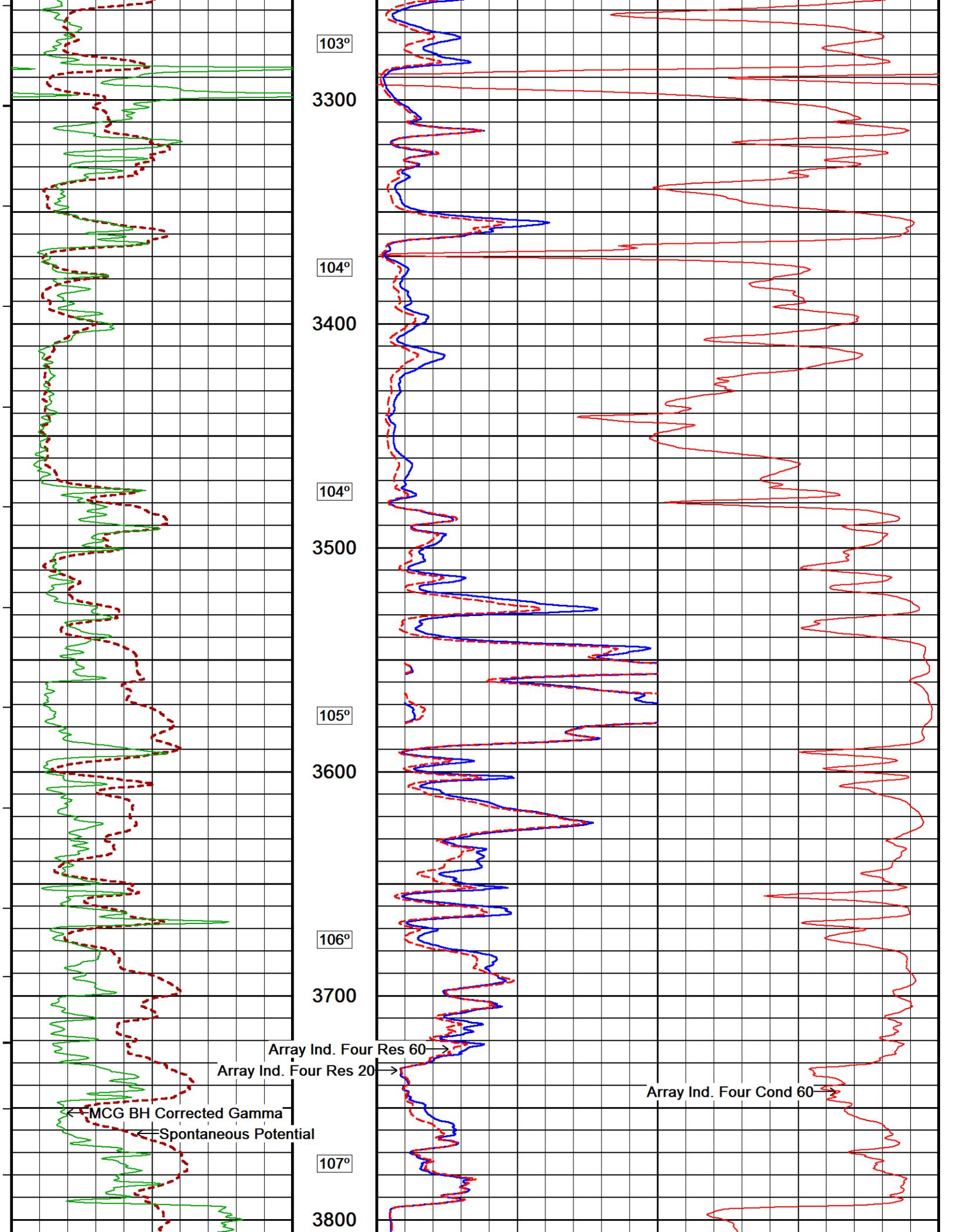
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 System Versions: Logged with 20.11.3980 Processed with 20.11.3980 Plotted with 20.11.3980

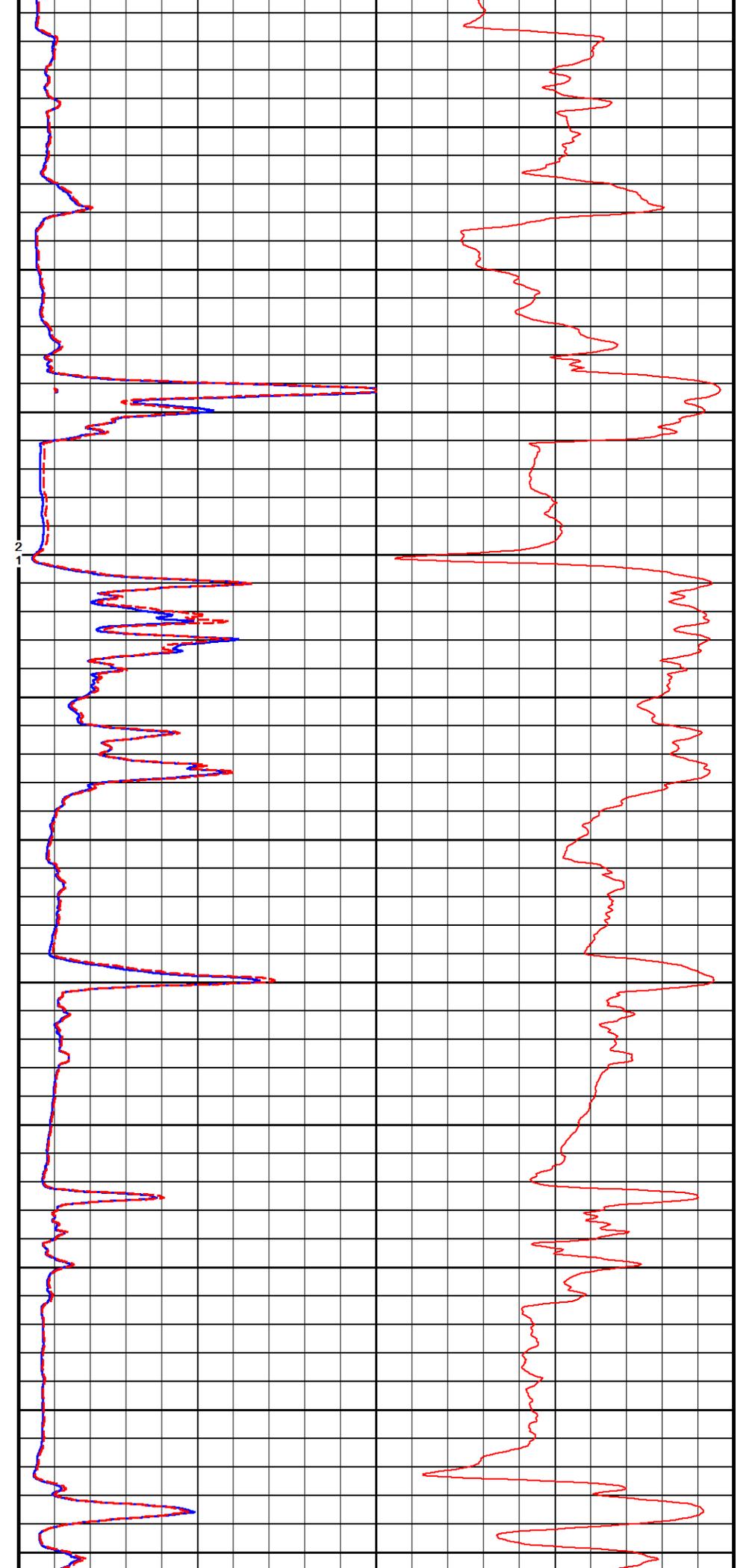
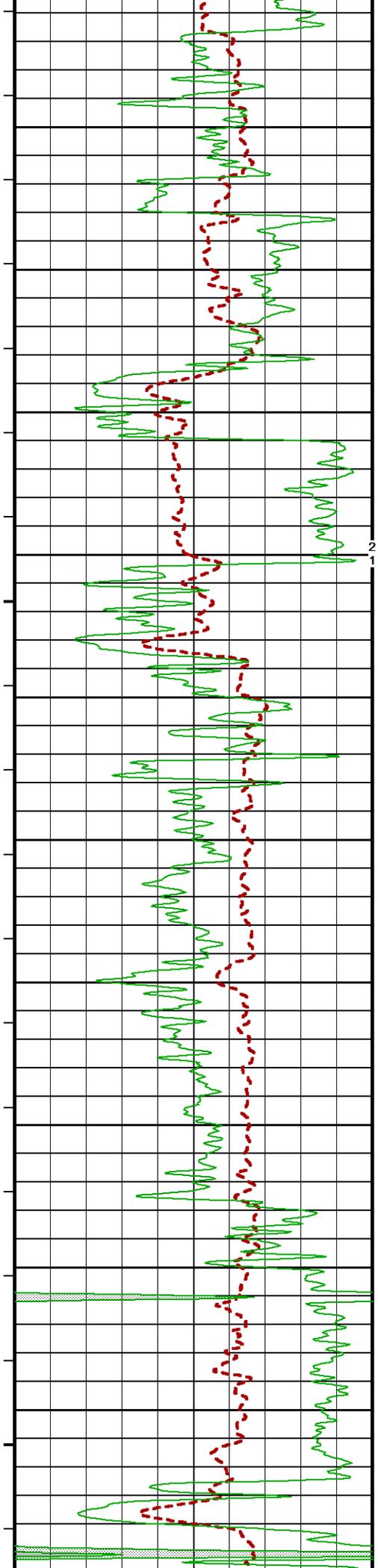


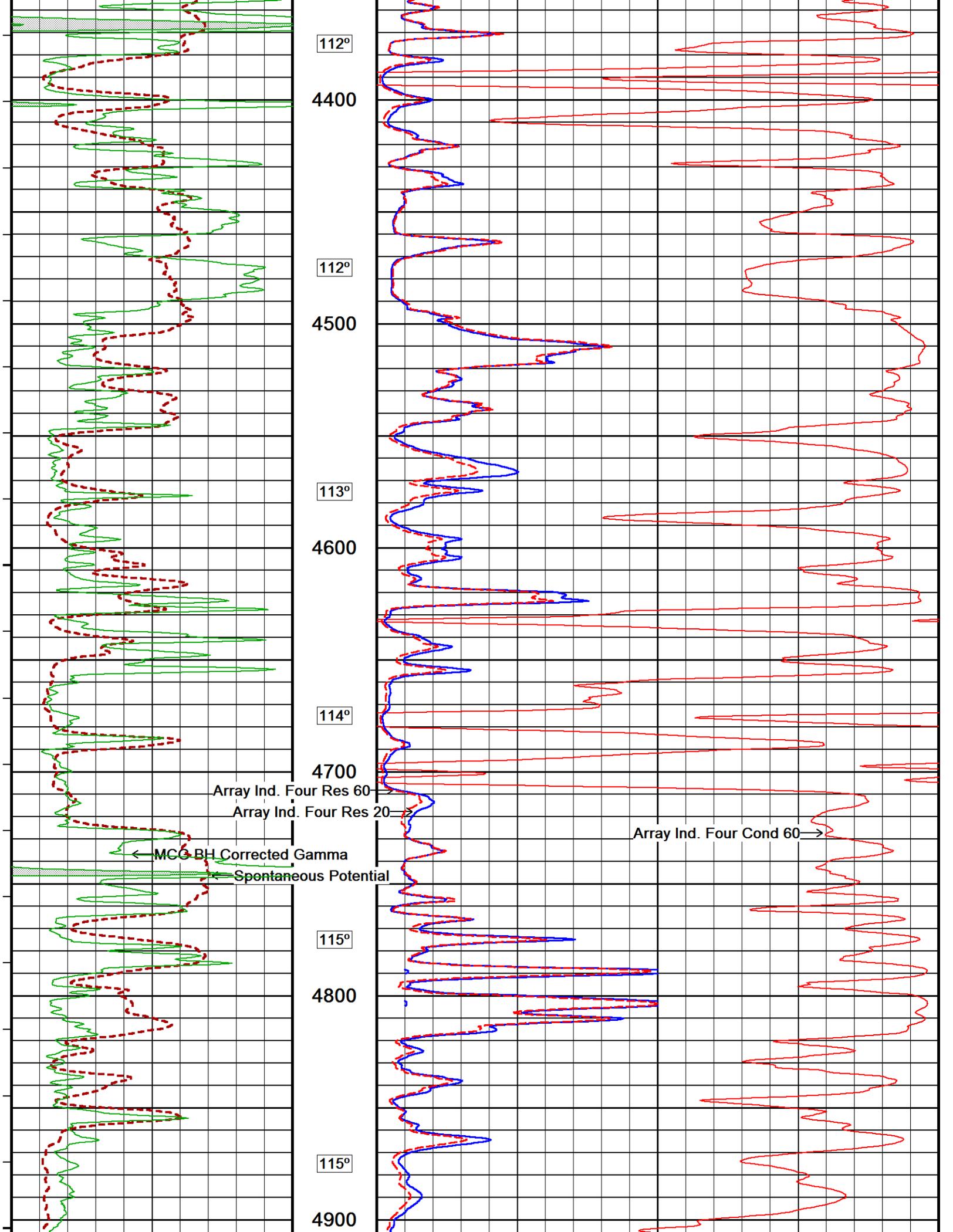


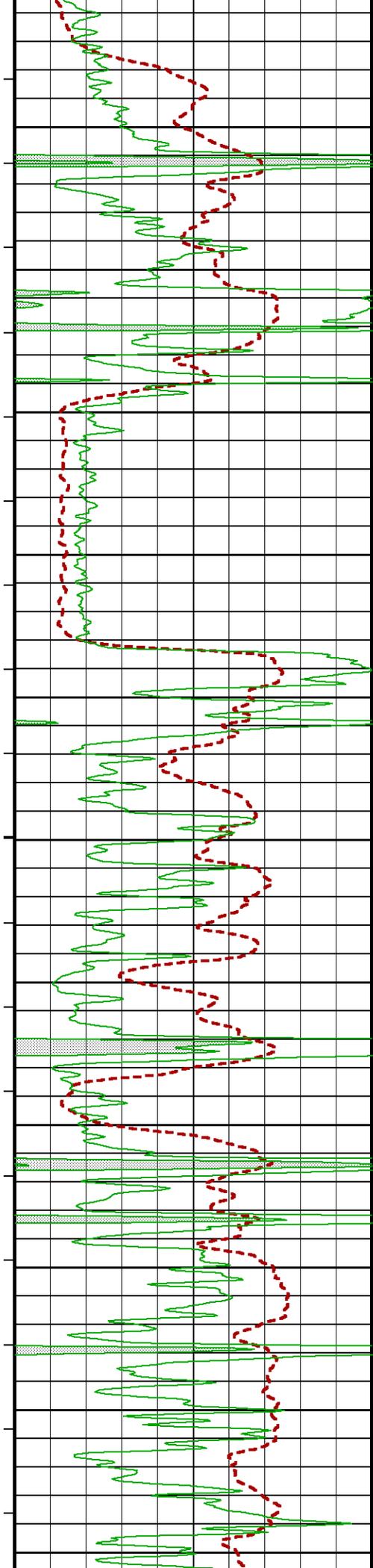












116°

5000

117°

5100

118°

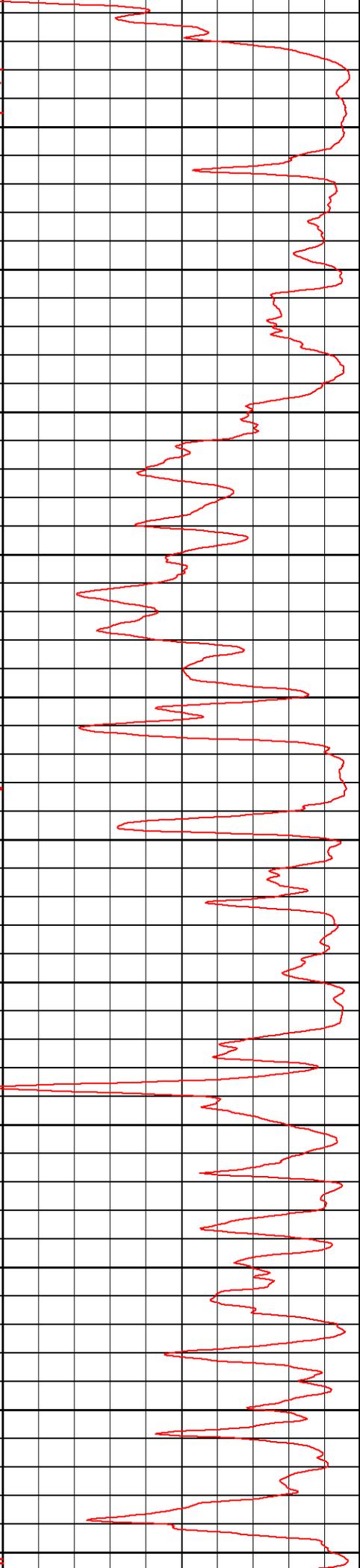
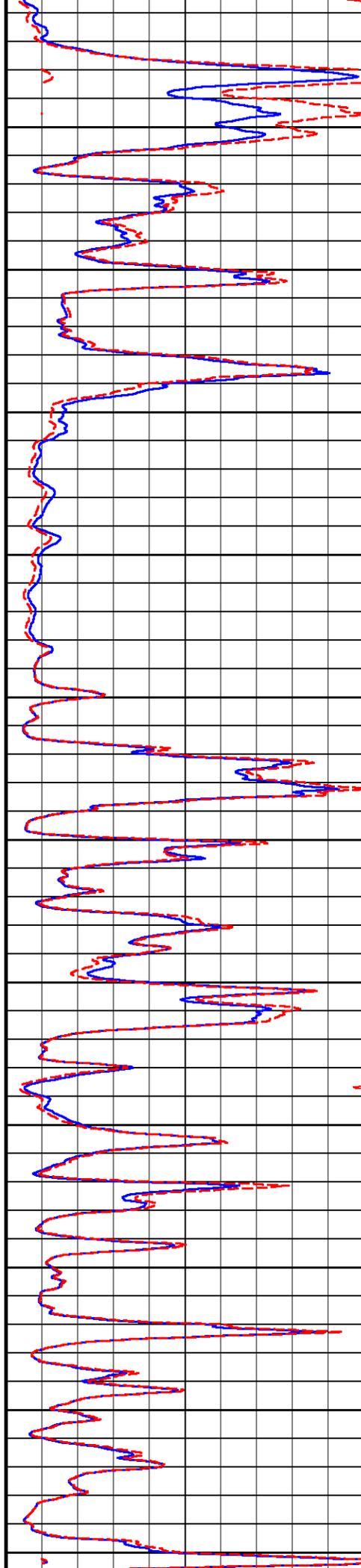
5200

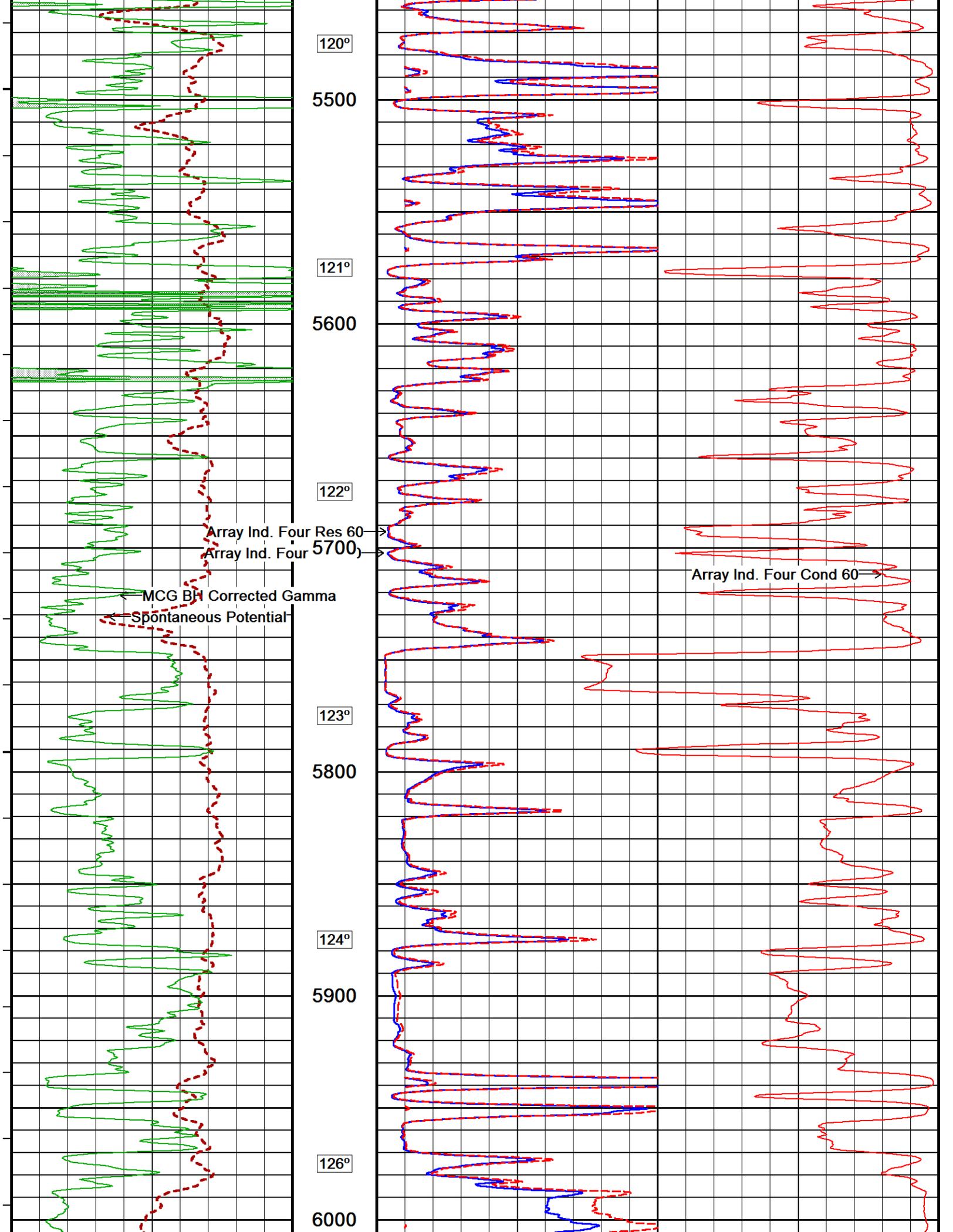
119°

5300

119°

5400





120°

5500

121°

5600

122°

5700

123°

5800

124°

5900

126°

6000

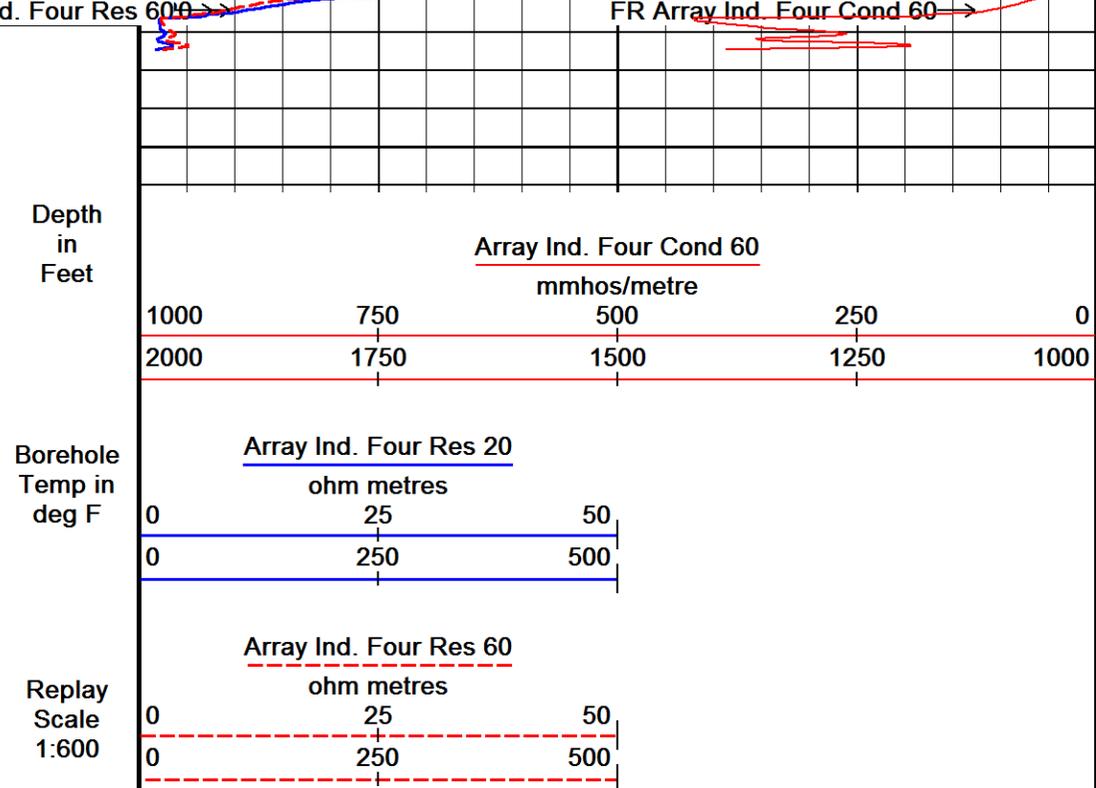
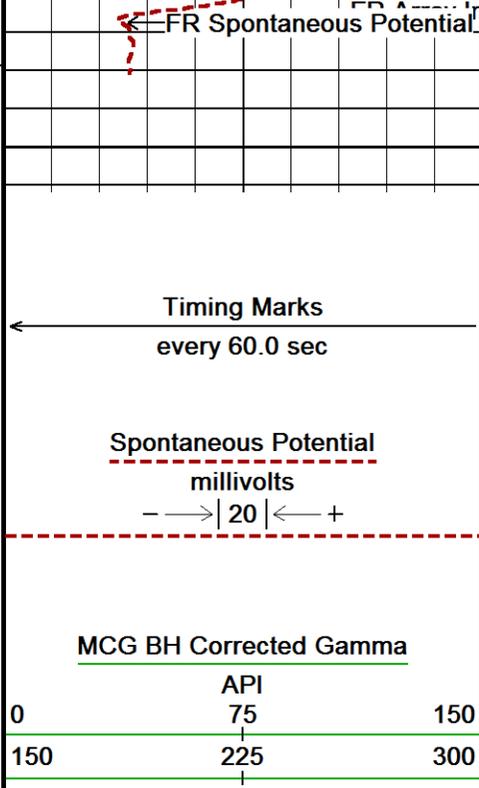
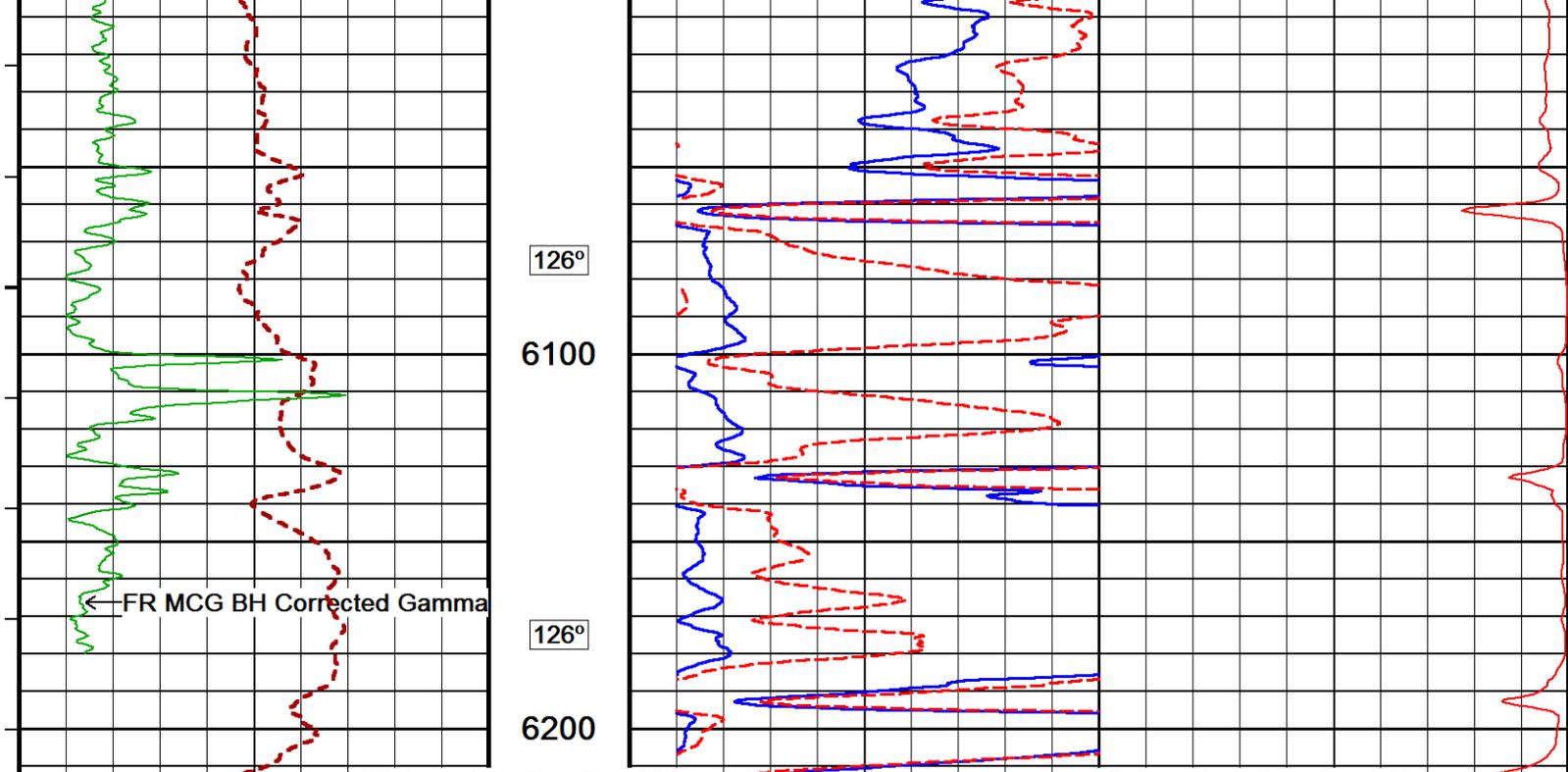
Array Ind. Four Res 60

Array Ind. Four

MCG BH Corrected Gamma

Spontaneous Potential

Array Ind. Four Cond 60



Depth Based Data - Maximum Sampling Increment 10.0cm Plotted on 16-SEP-2022 13:58
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↑ **2 INCH MAIN PASS** ↑

↓ **10 INCH HI RESOLUTION PASS** ↓

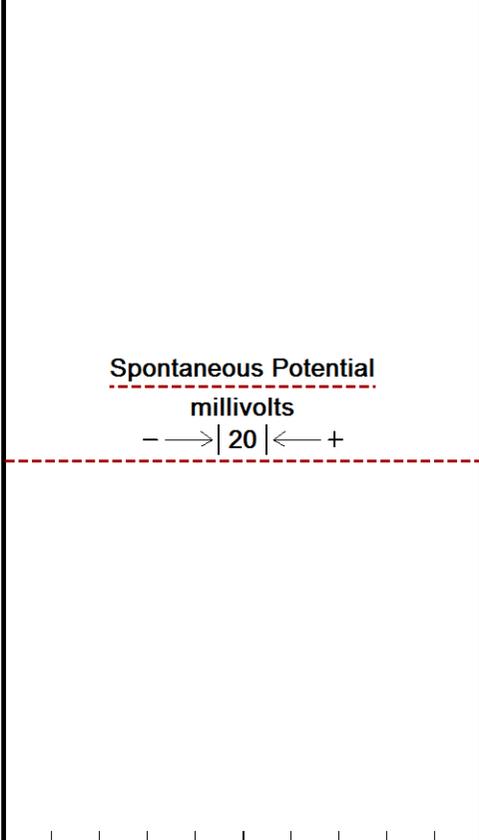
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 System Versions: Logged with 20.11.3980 Plotted with 20.11.3980



Timing Marks
every 60.0 sec

Gamma Ray

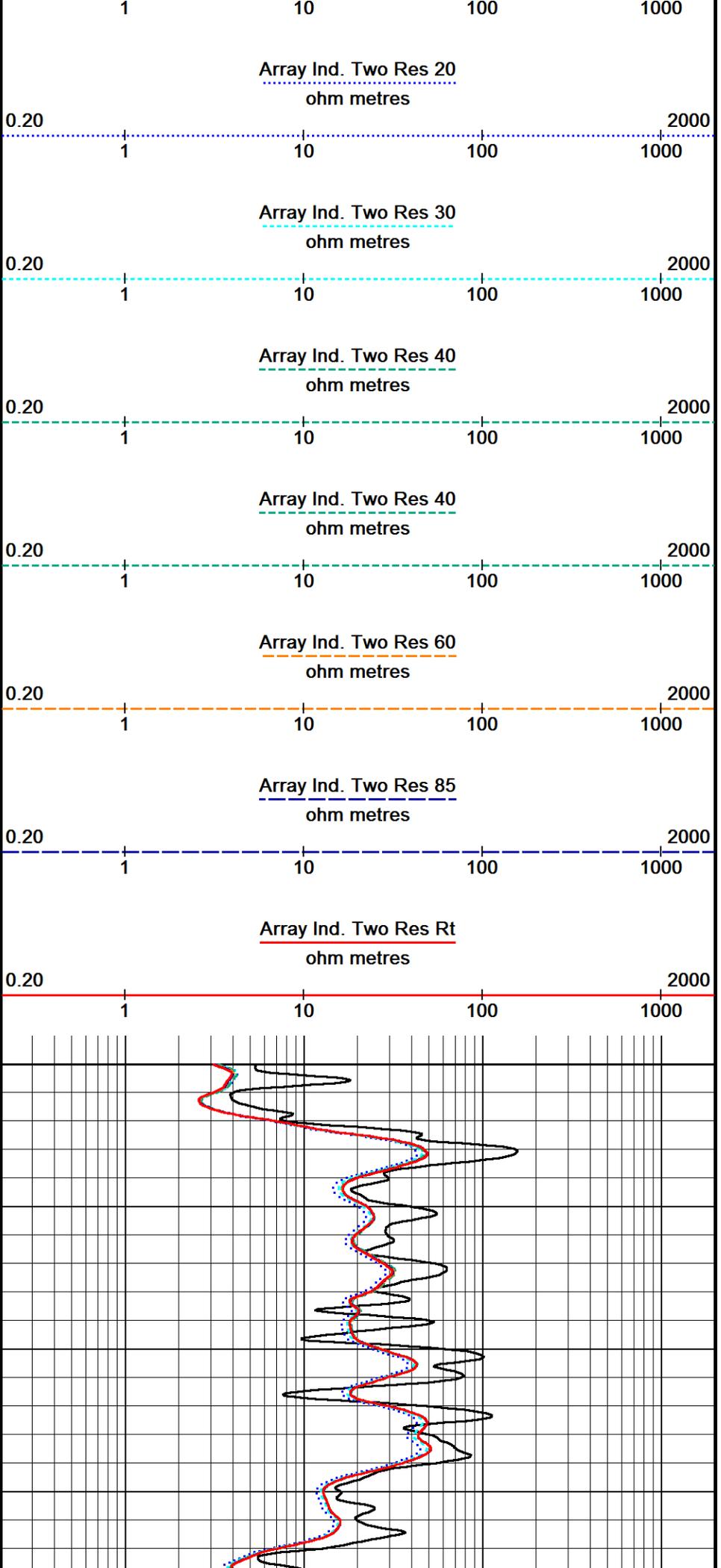
0	API	150
	75	
150	225	300

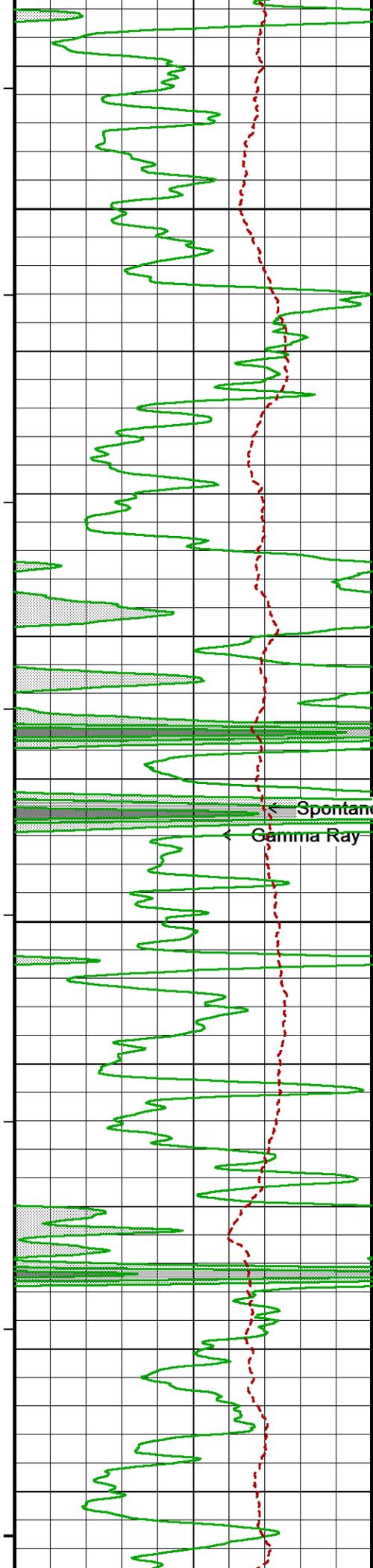


Borehole
Temp in
deg F

Replay
Scale
1:120

5500





120°

5550

120°

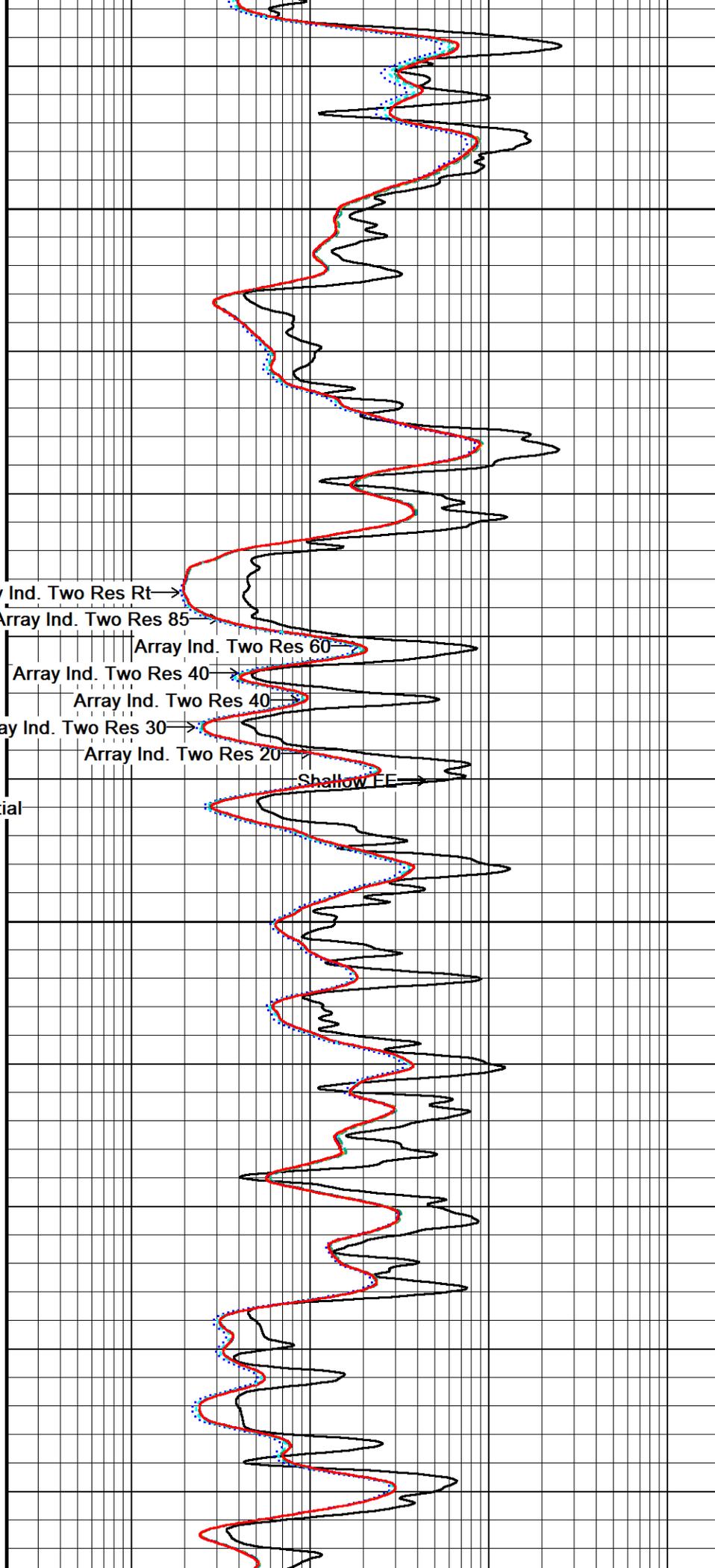
5600

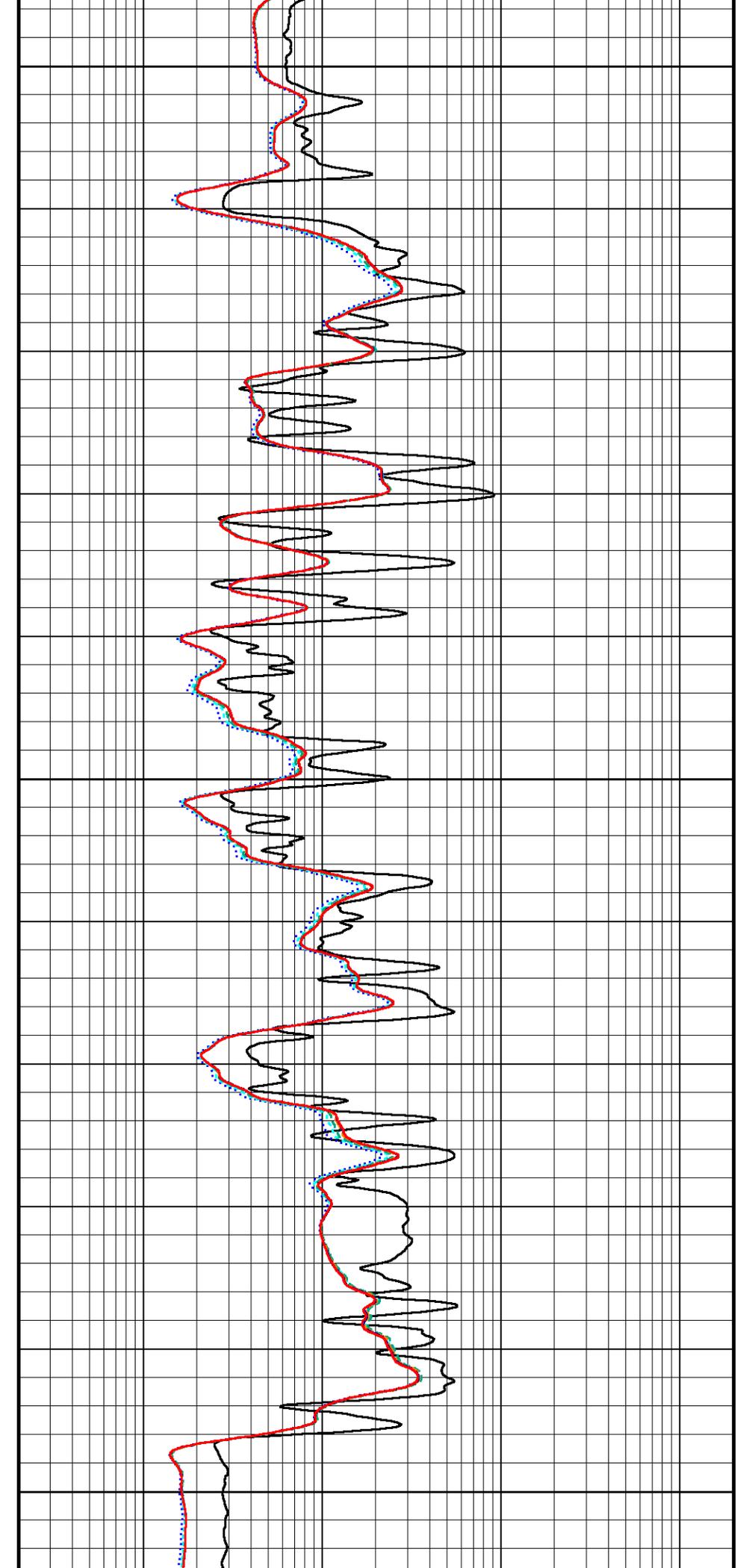
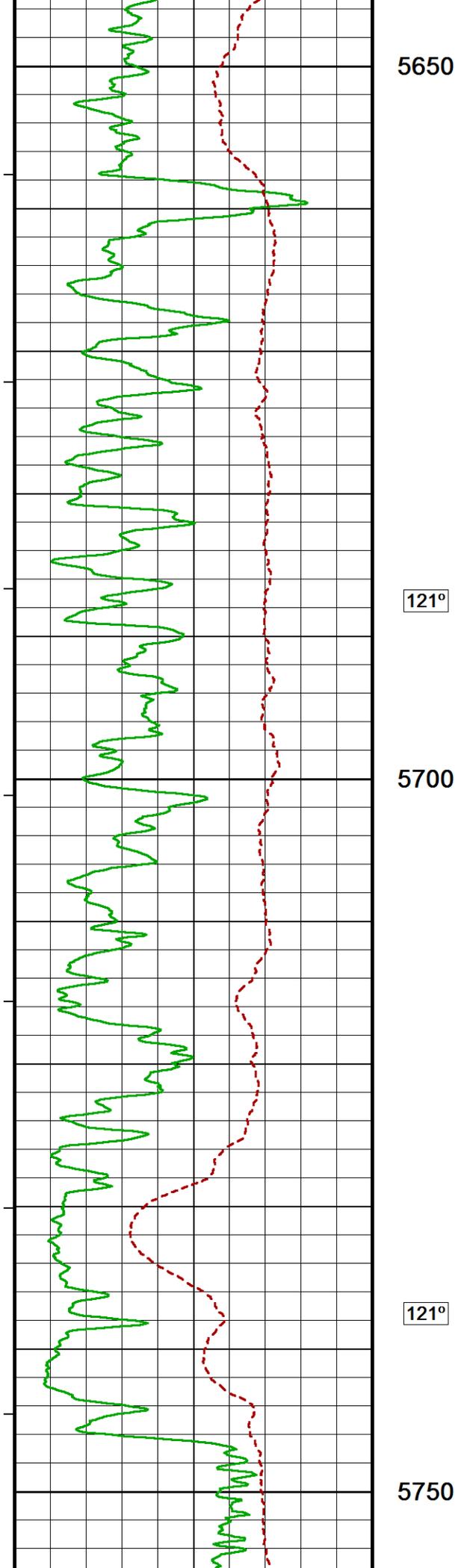
121°

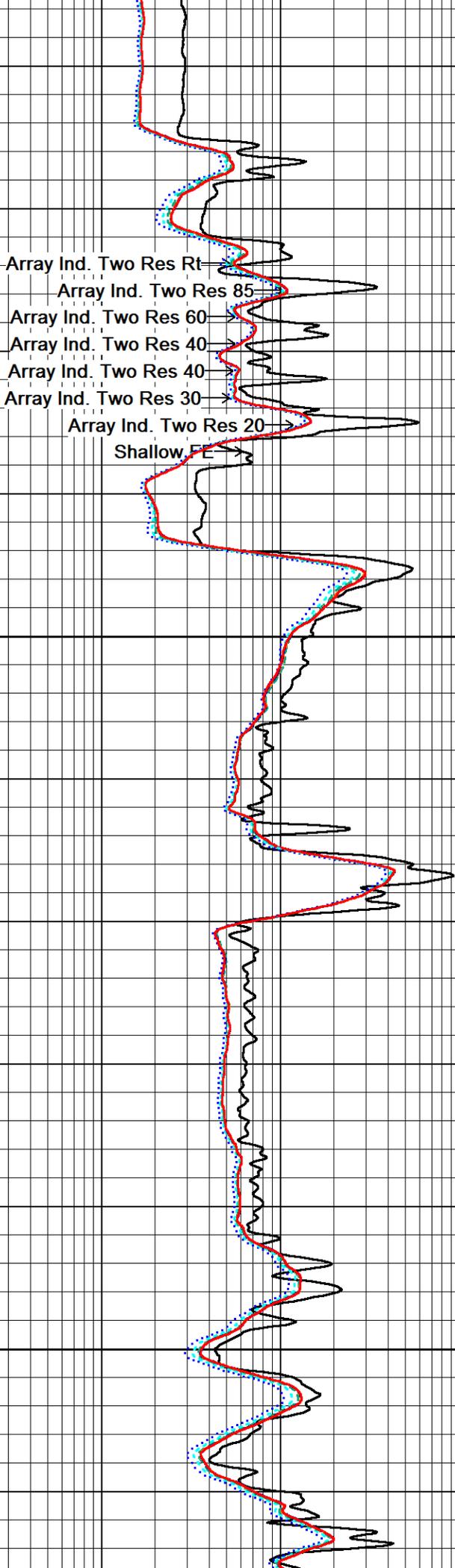
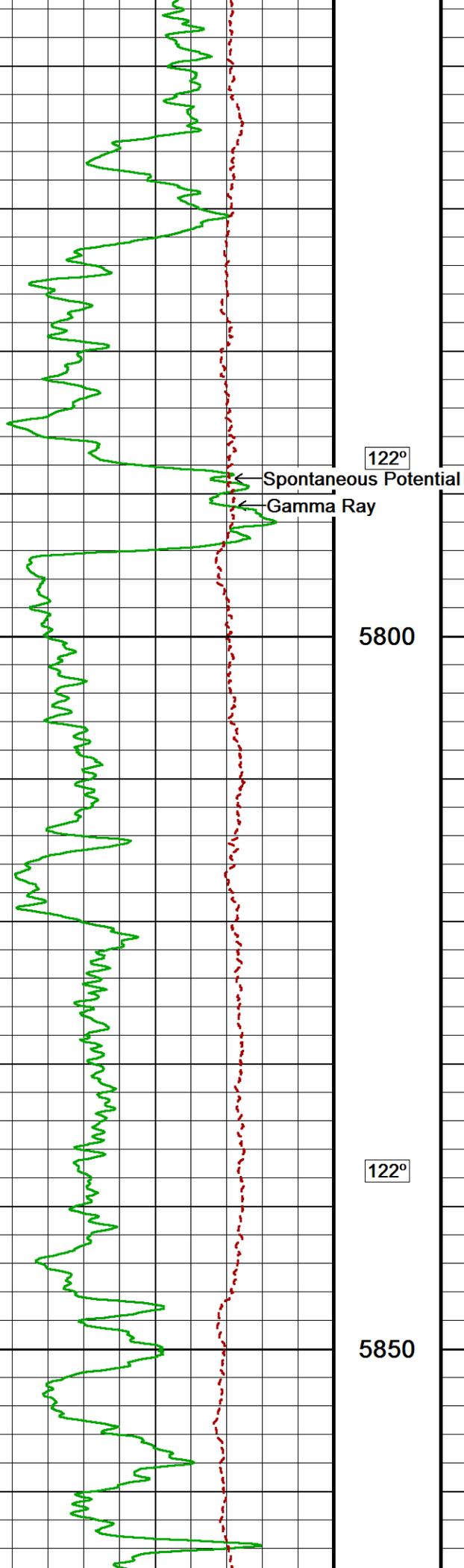
Array Ind. Two Res Rt →
Array Ind. Two Res 85 →
Array Ind. Two Res 60 →
Array Ind. Two Res 40 →
Array Ind. Two Res 40 →
Array Ind. Two Res 30 →
Array Ind. Two Res 20 →

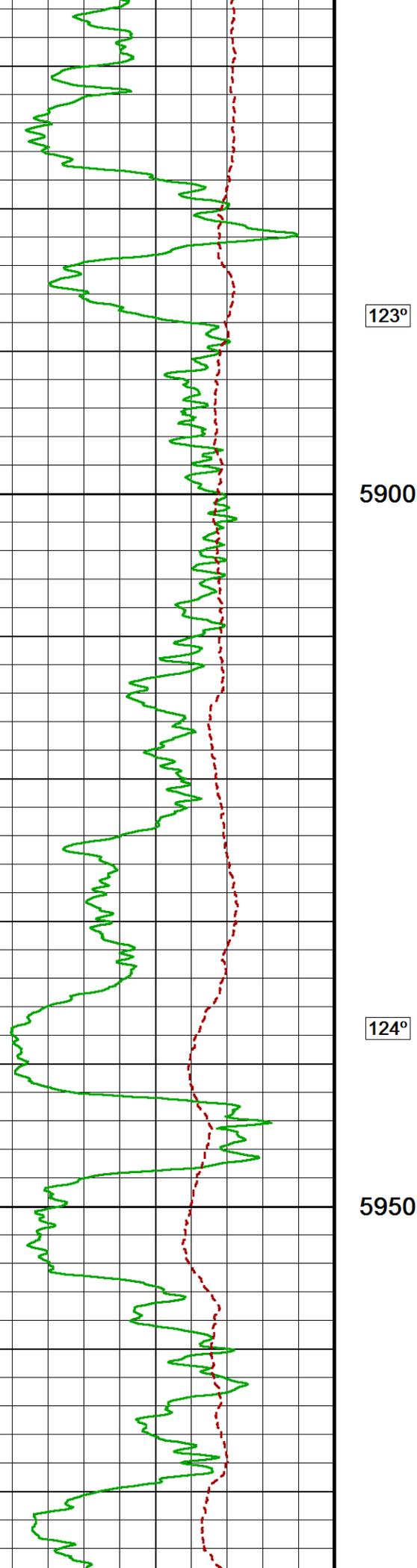
Shallow FF →

Spontaneous Potential
Gamma Ray







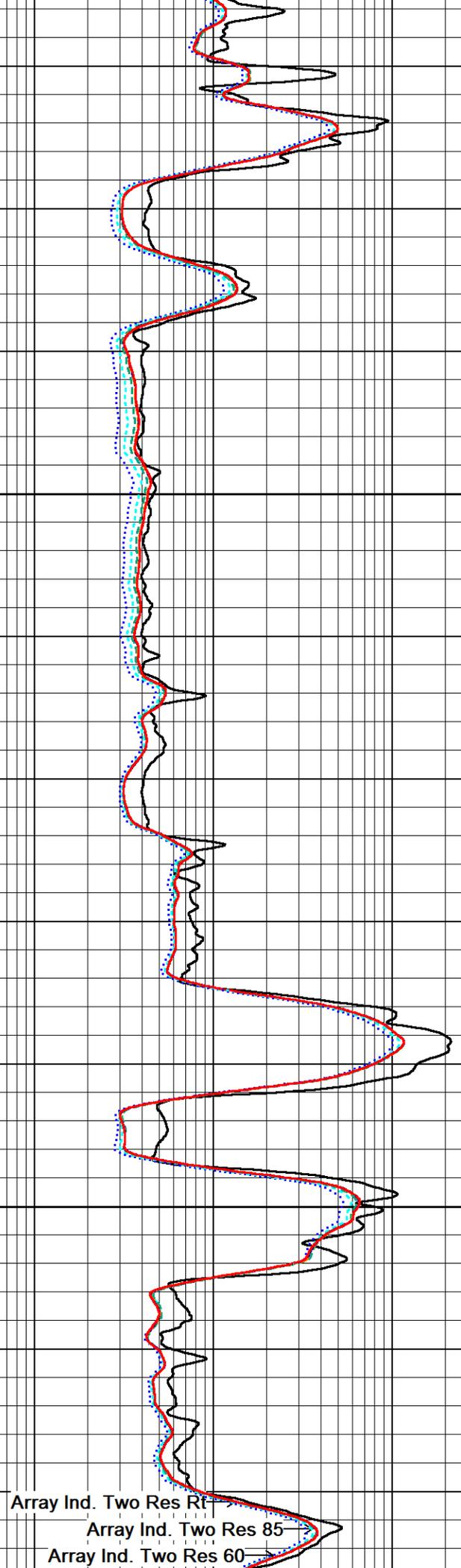


123°

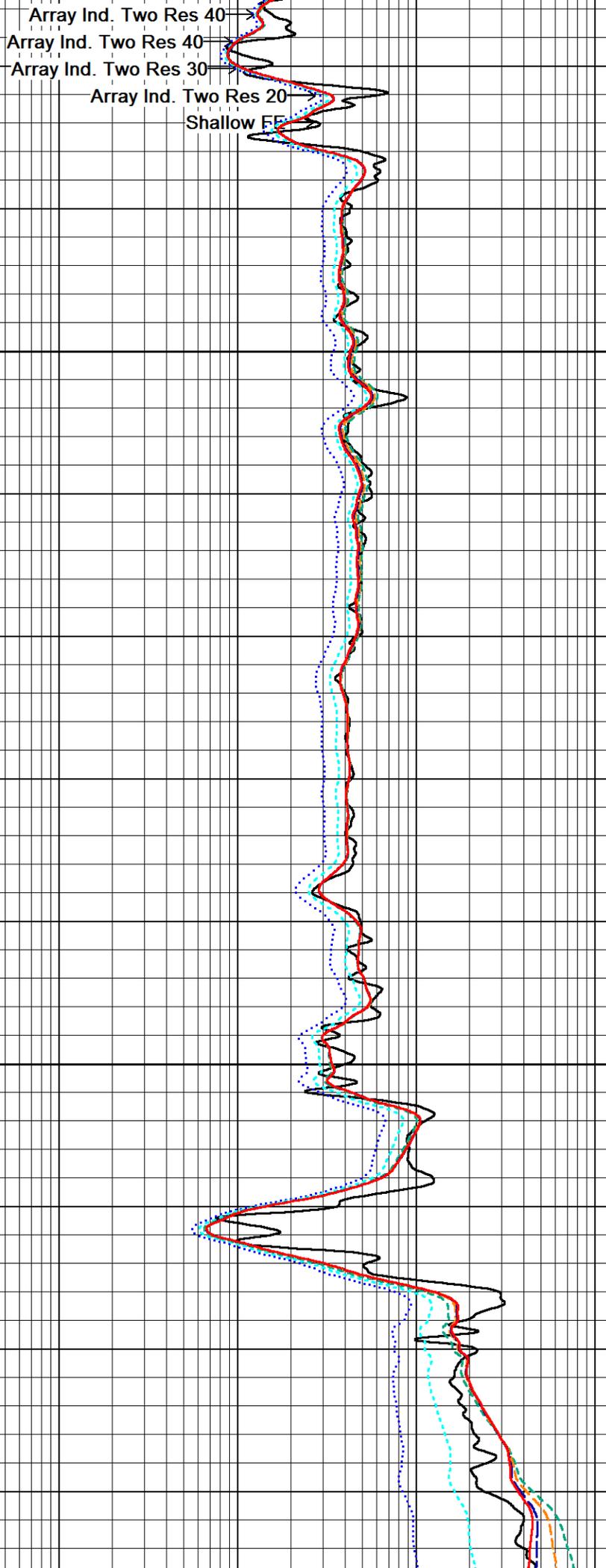
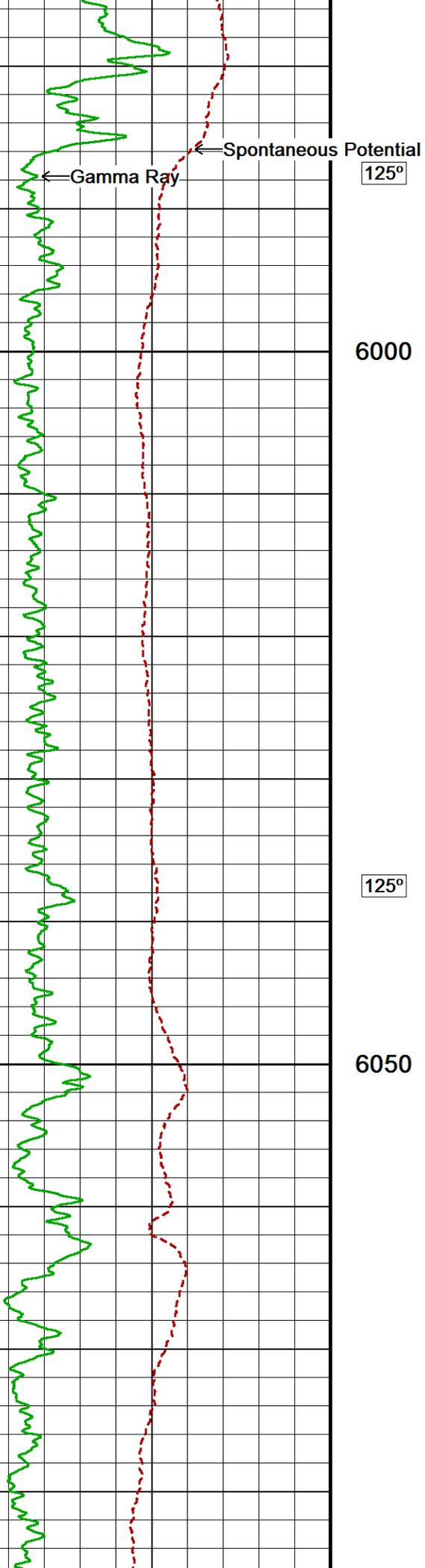
5900

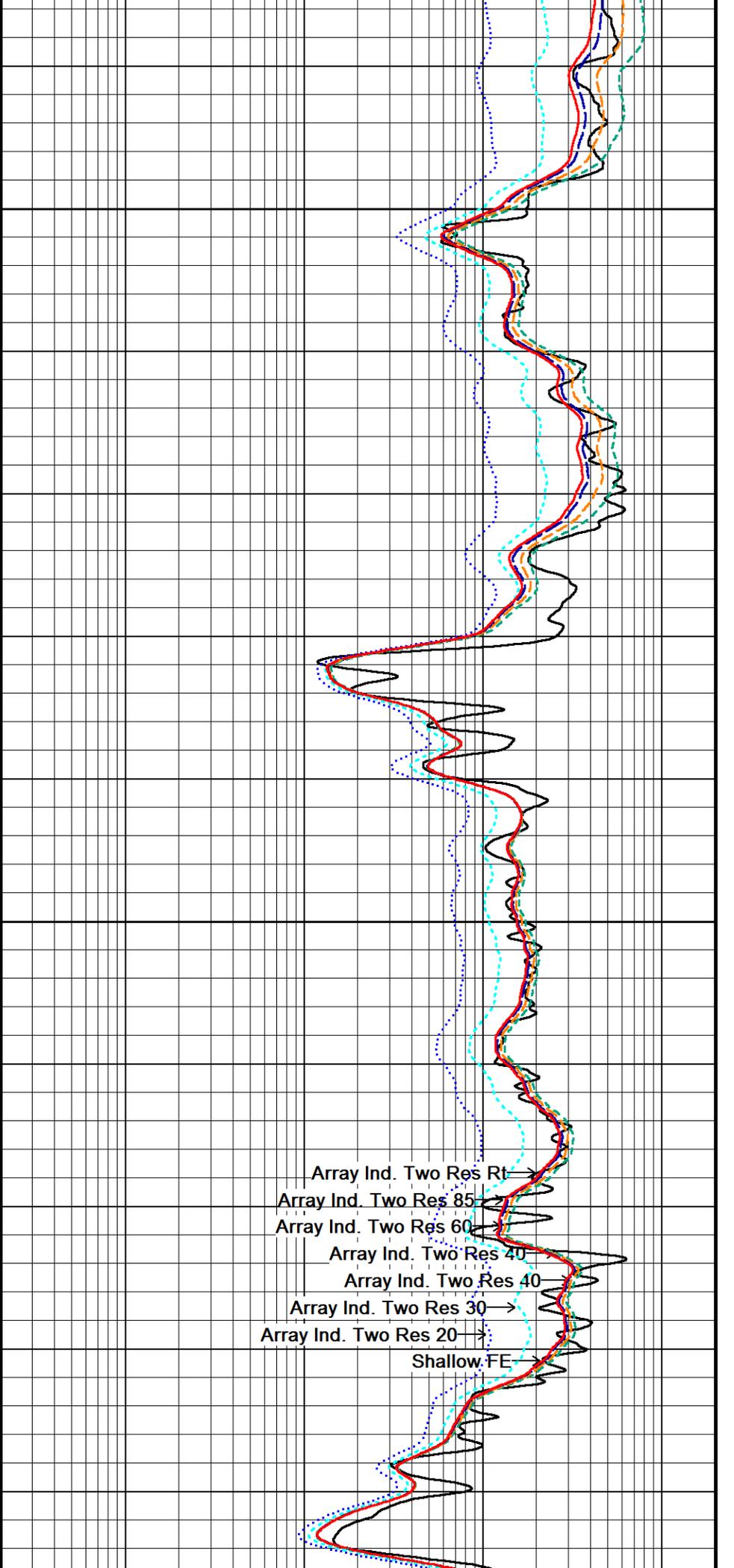
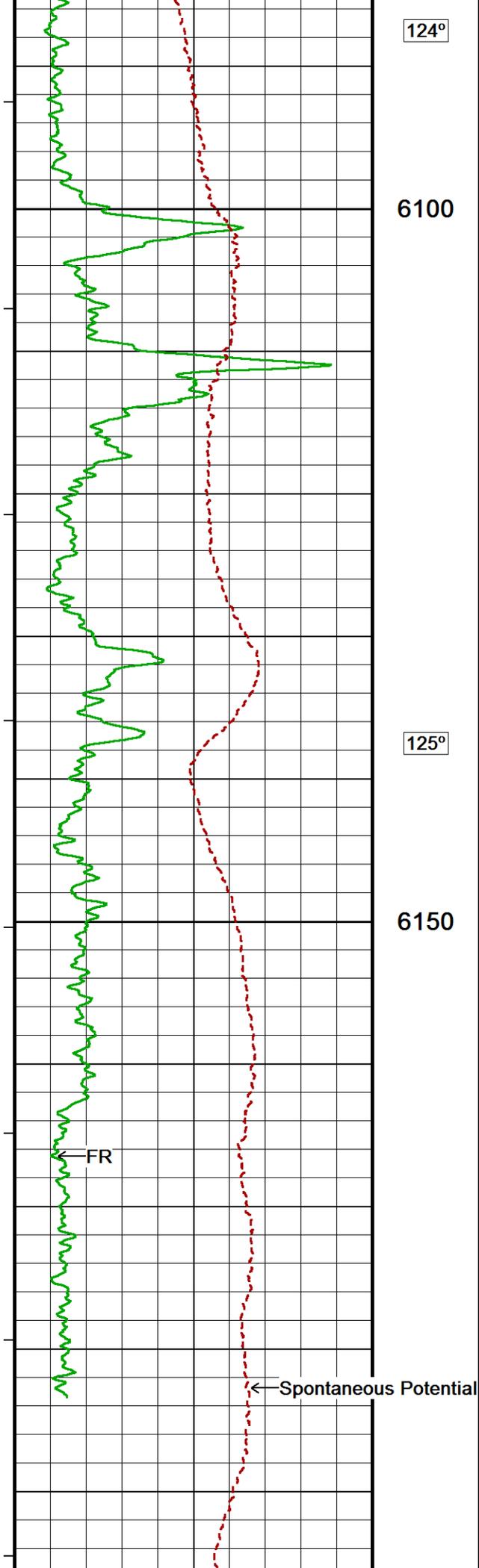
124°

5950



Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60





6200

TD

Depth in Feet

Shallow FE
ohm metres

Array Ind. Two Res 20
ohm metres

Array Ind. Two Res 30
ohm metres

Array Ind. Two Res 40
ohm metres

Array Ind. Two Res 40
ohm metres

Array Ind. Two Res 60
ohm metres

Array Ind. Two Res 85

←FR

FR →

FR →

Timing Marks
every 60.0 sec

Gamma Ray

API

75

225

0

150

150

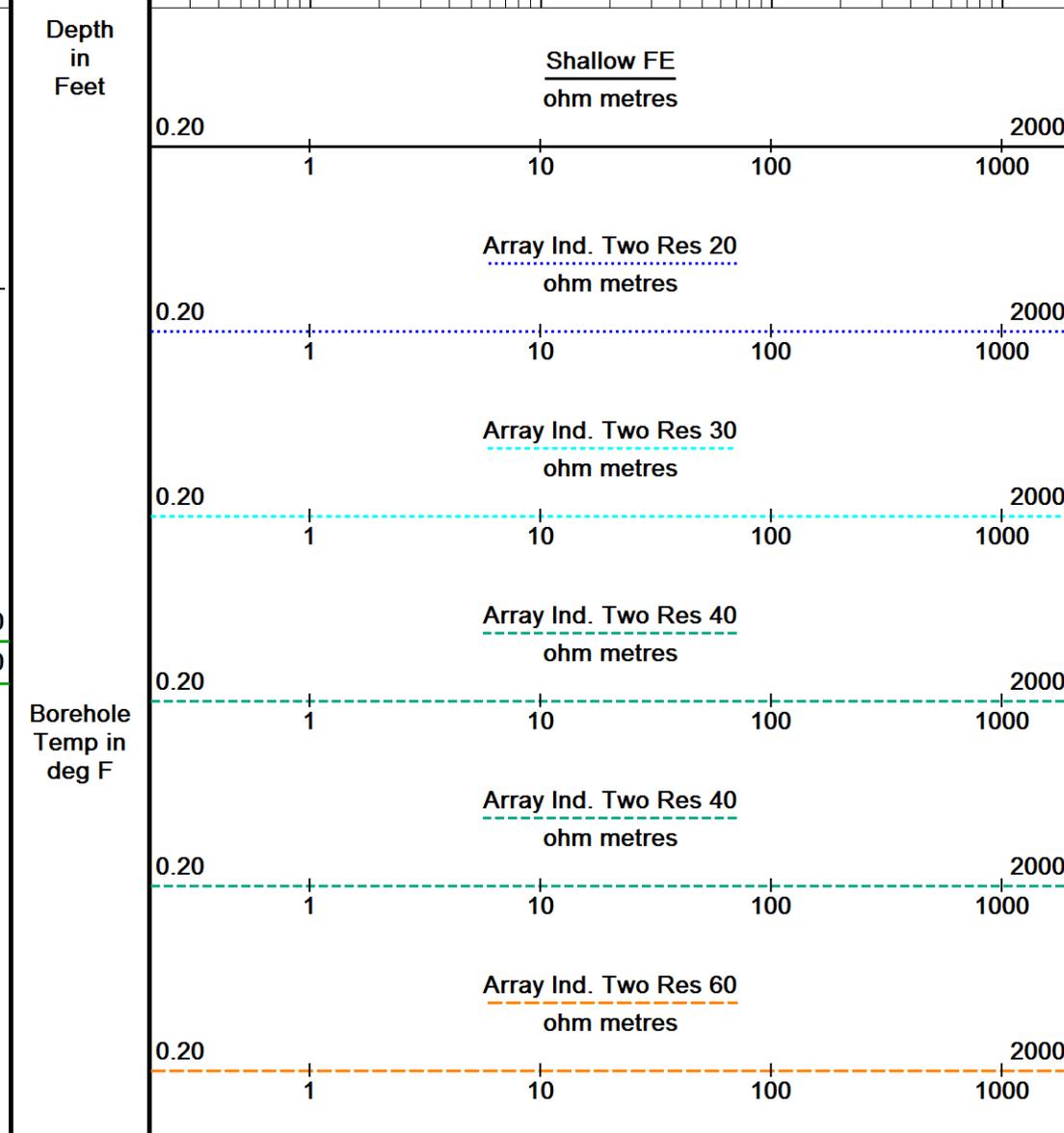
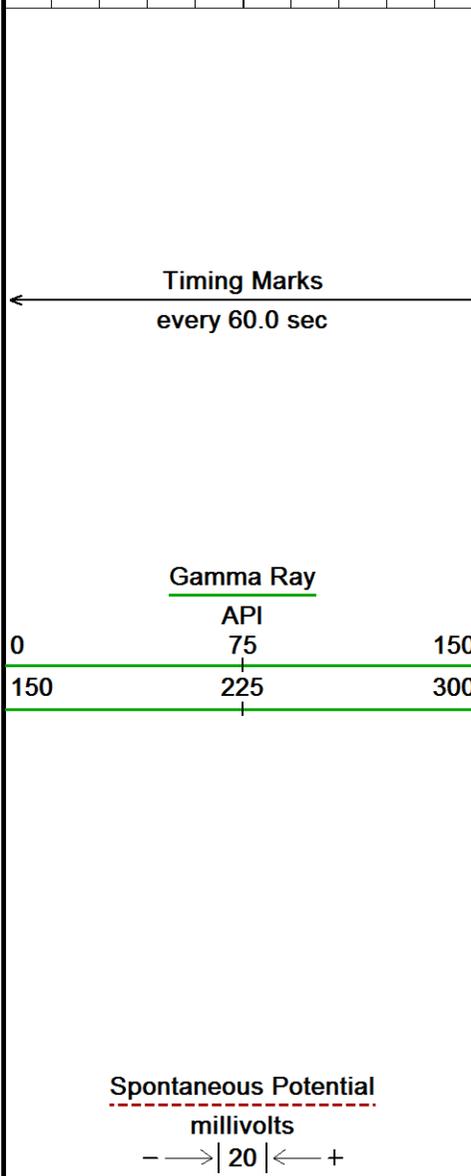
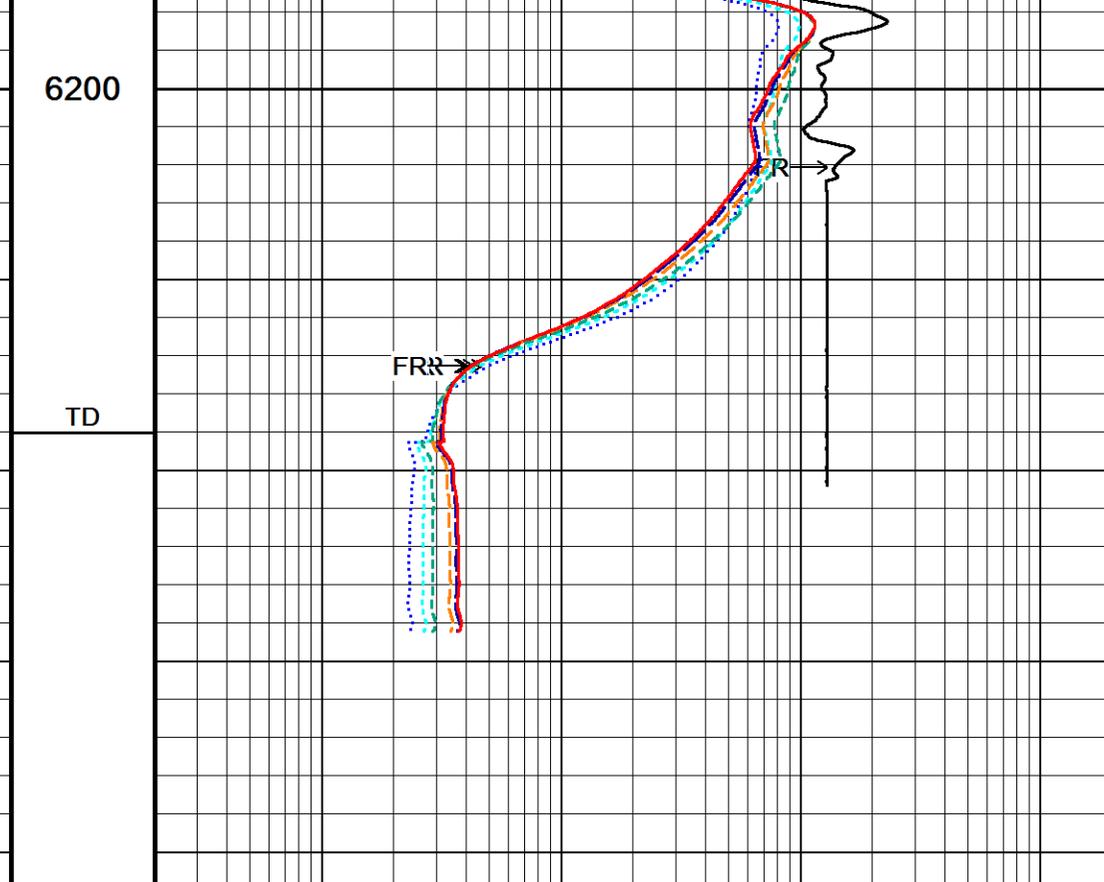
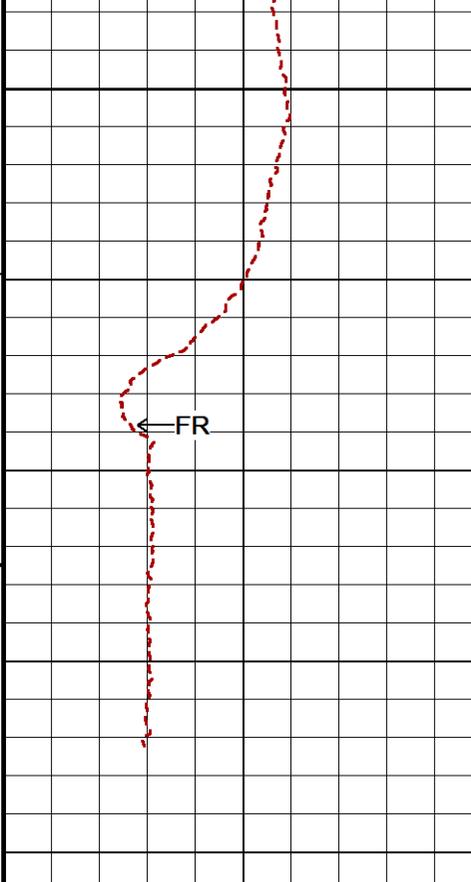
300

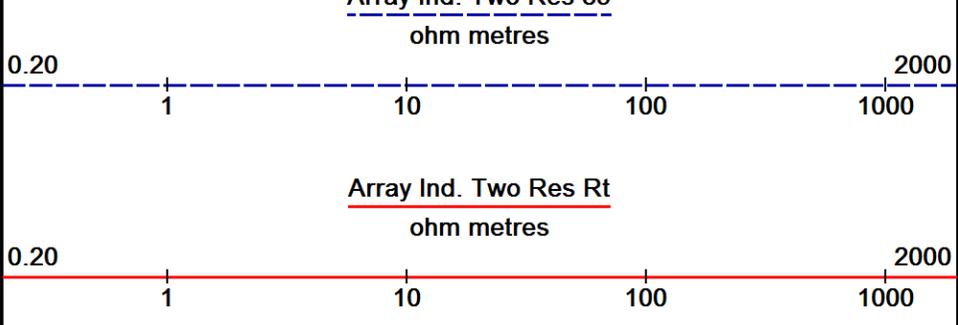
Borehole
Temp in
deg F

Spontaneous Potential

millivolts

→ | 20 | ← +





Depth Based Data - Maximum Sampling Increment 2.5cm
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↑ 10 INCH HI RESOLUTION PASS ↑

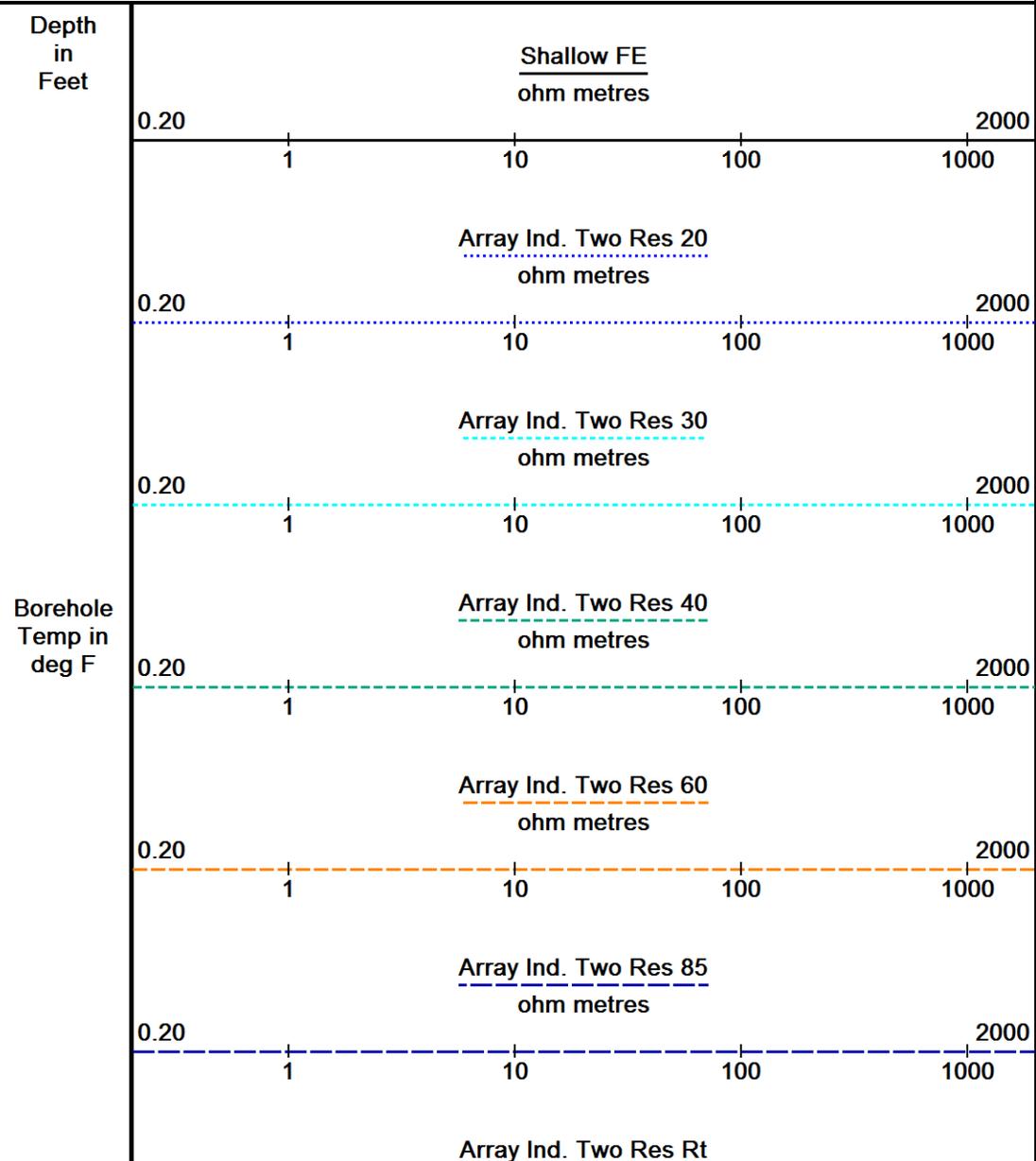
↓ 5 INCH MAIN PASS ↓

Depth Based Data - Maximum Sampling Increment 10.0cm
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 System Versions: Logged with 20.11.3980 Processed with 20.11.3980 Plotted with 20.11.3980

Plotted on 16-SEP-2022 13:58
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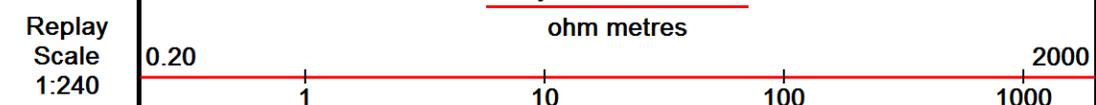
← Timing Marks
 every 60.0 sec

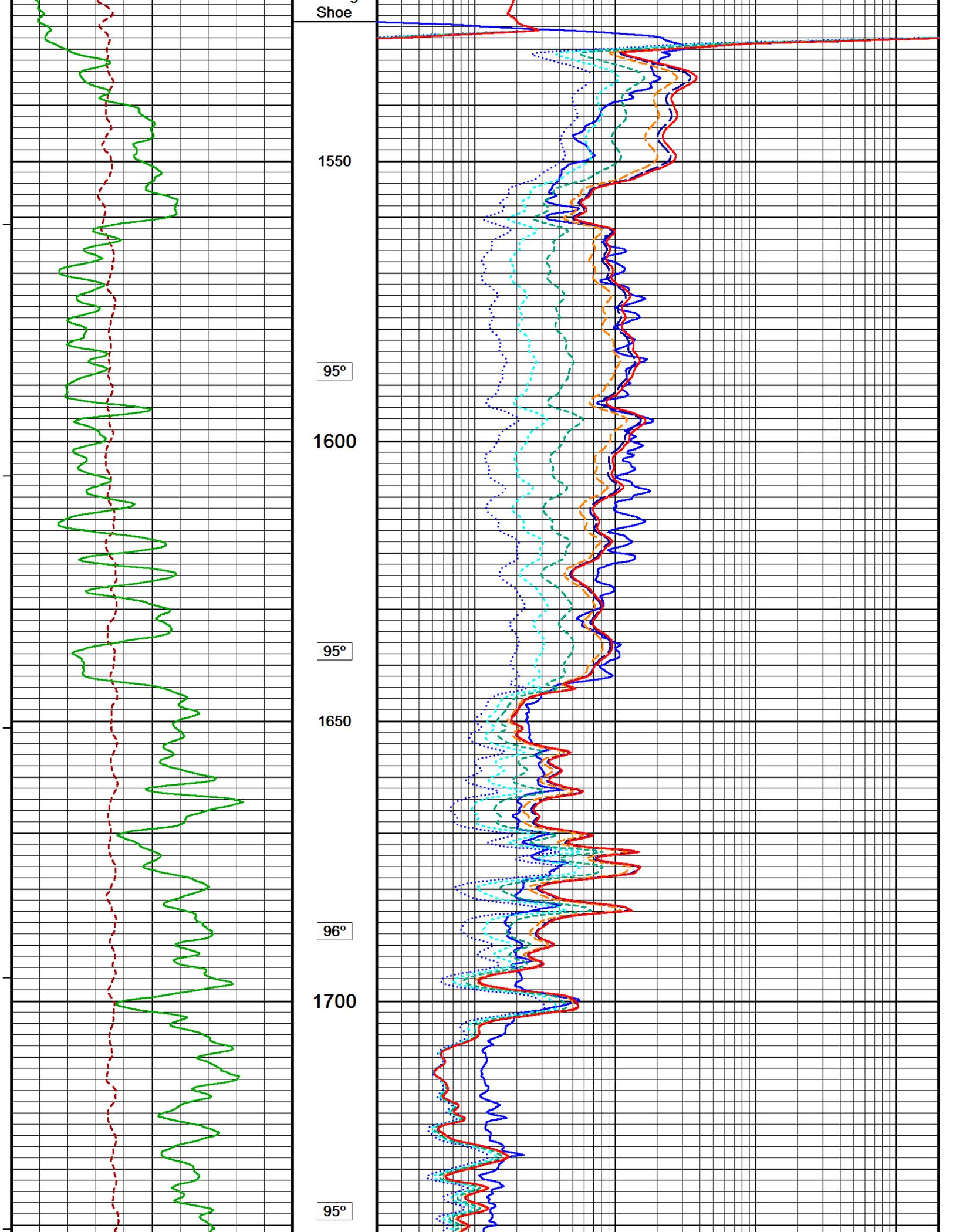
Spontaneous Potential
 millivolts
 - - - - -> | 20 | < - - - - - +

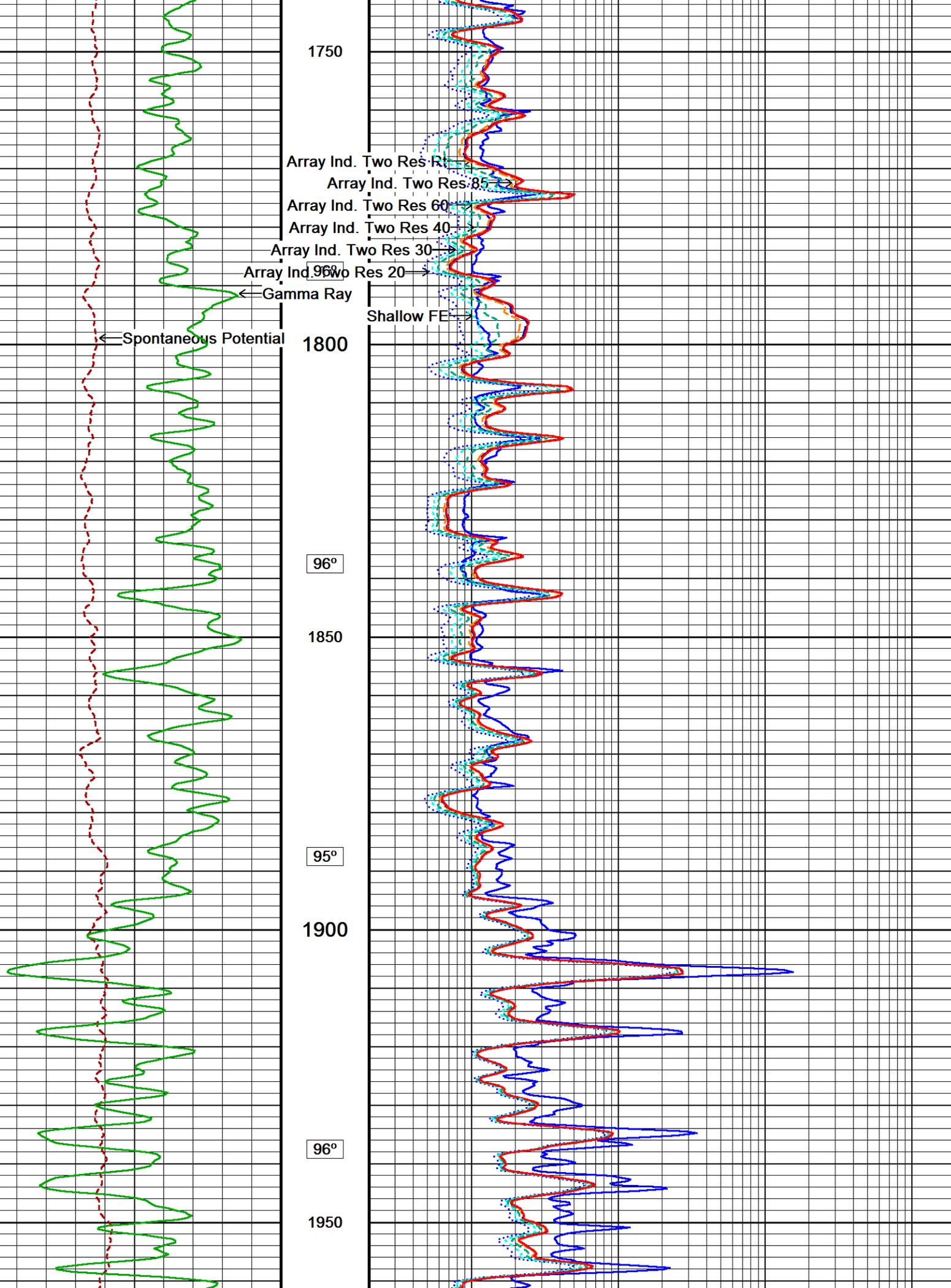


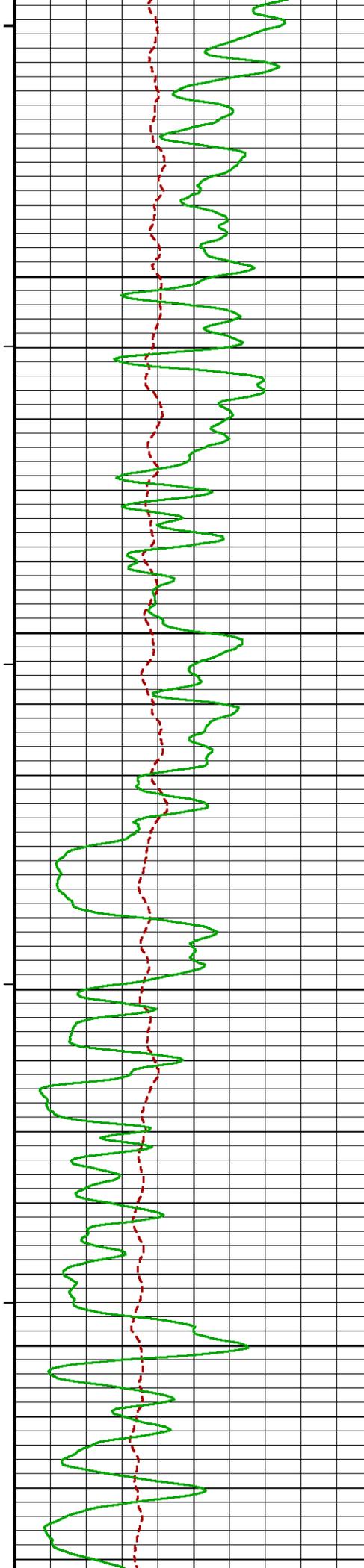
Borehole Temp in deg F

Gamma Ray
 API
 0 70 140
 140 210 280









96°

2000

96°

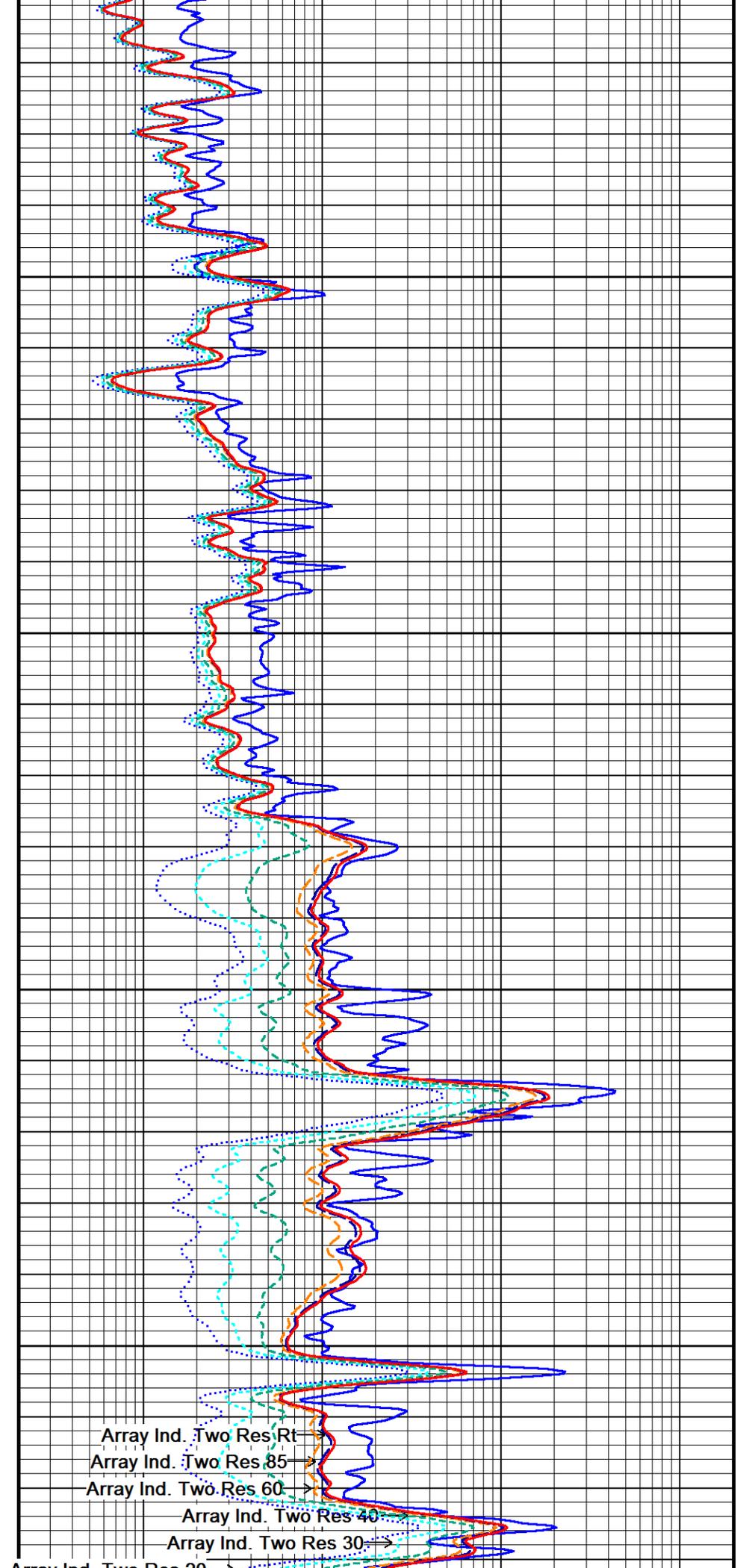
2050

96°

2100

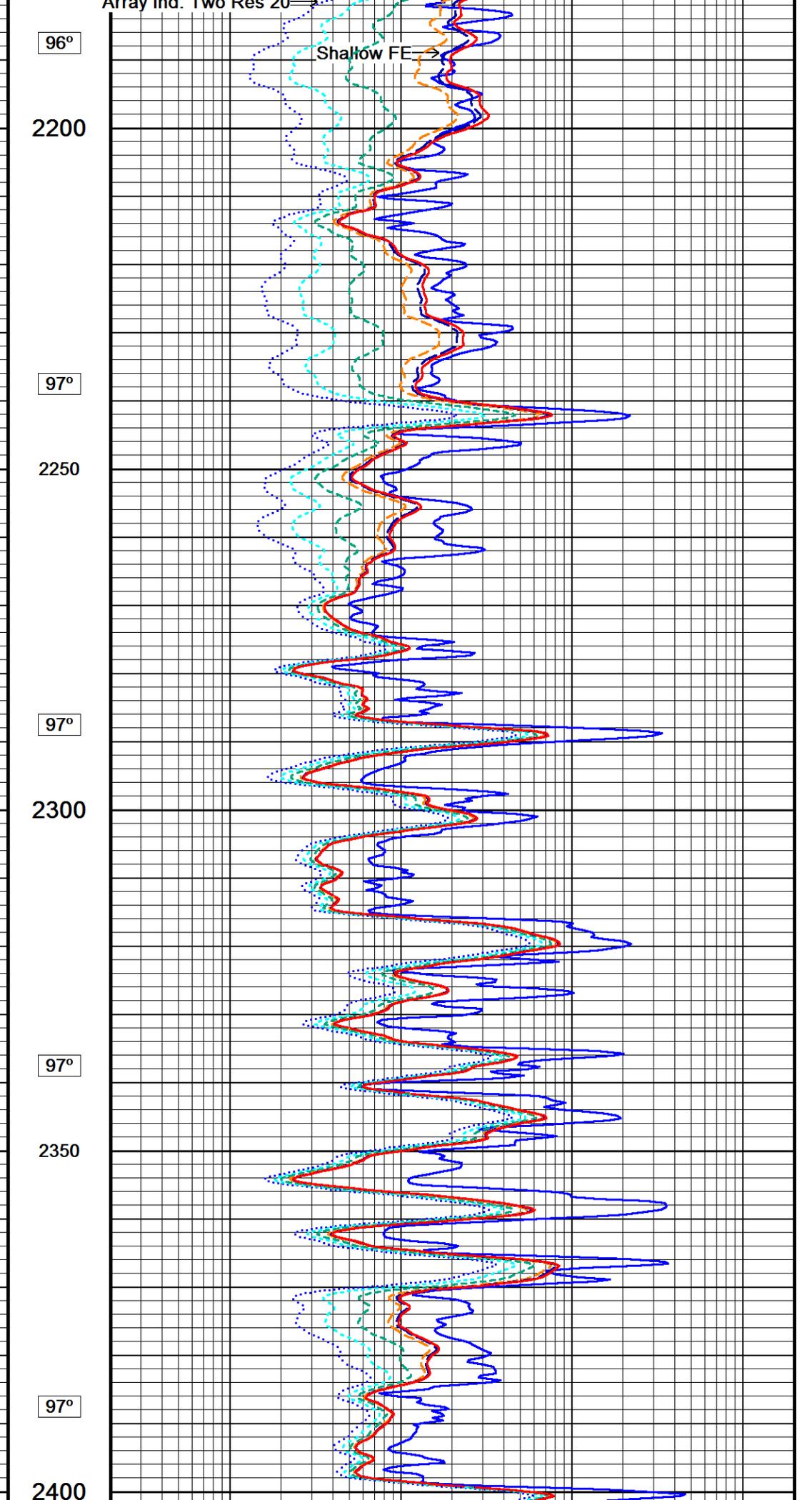
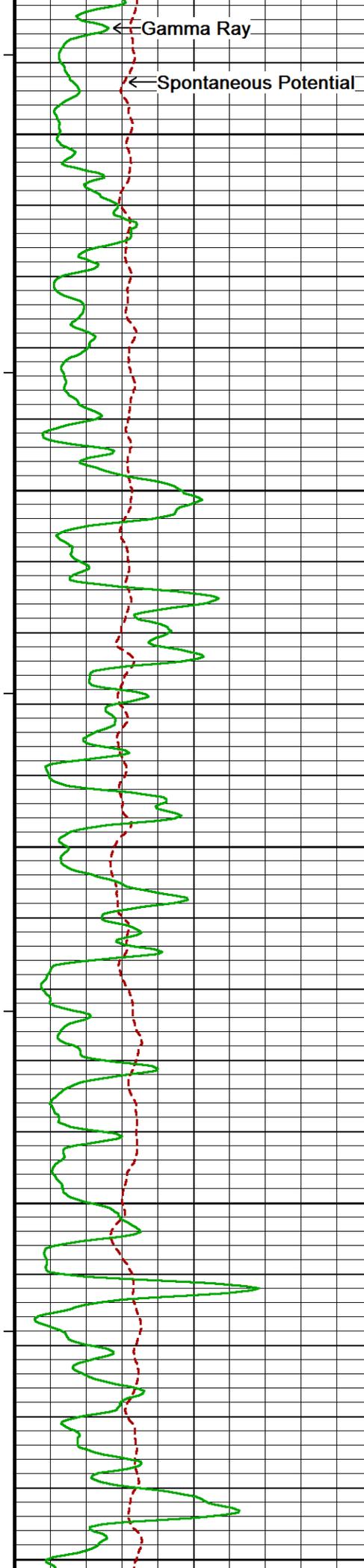
96°

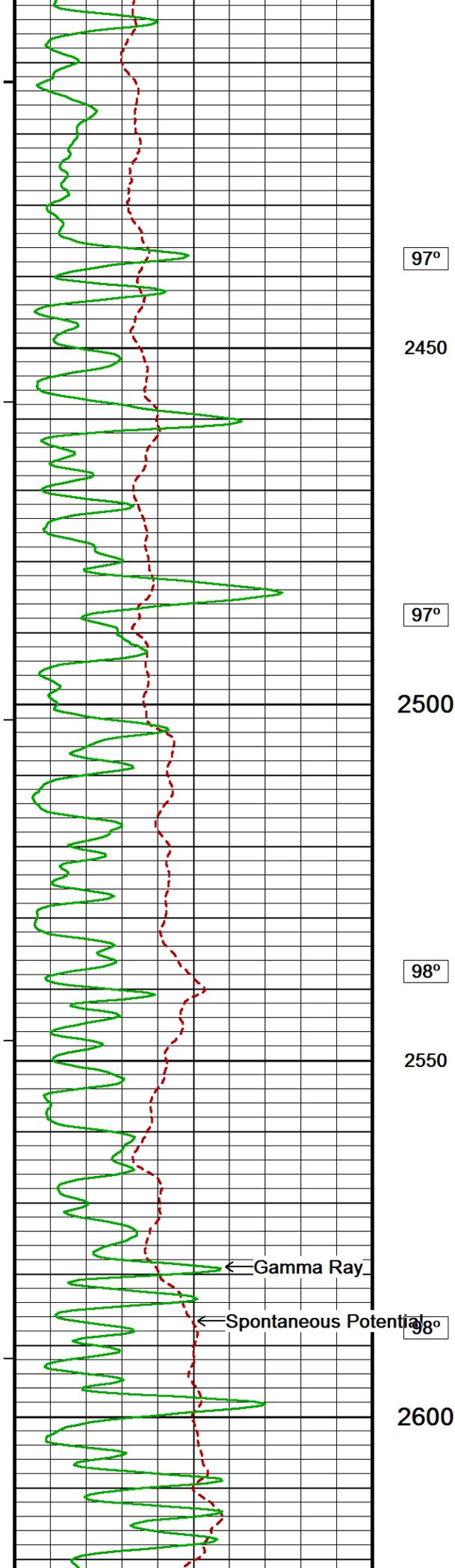
2150



- Array Ind. Two Res 120 →
- Array Ind. Two Res 85 →
- Array Ind. Two Res 60 →
- Array Ind. Two Res 40 →
- Array Ind. Two Res 30 →

Array Ind. Two Res 20 →





97°

2450

97°

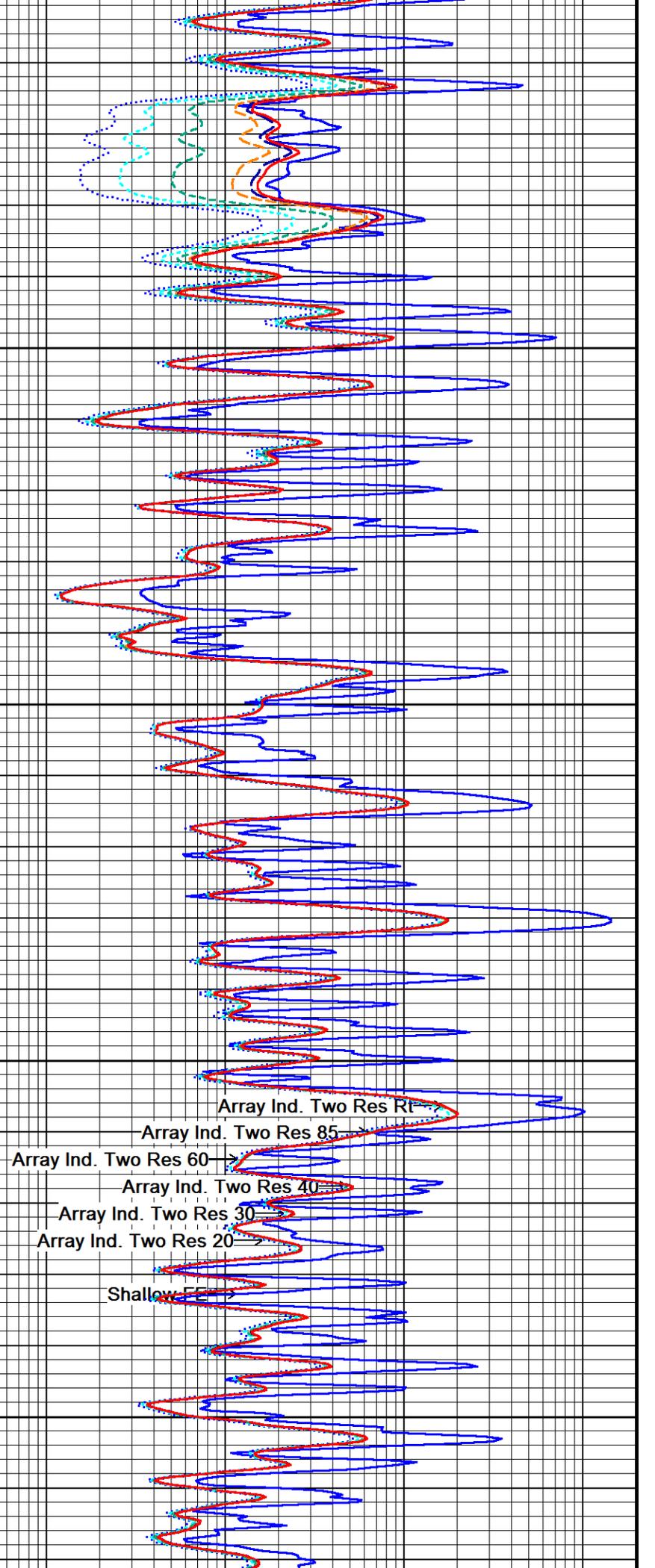
2500

98°

2550

98°

2600



Array Ind. Two Res Rt

Array Ind. Two Res 85

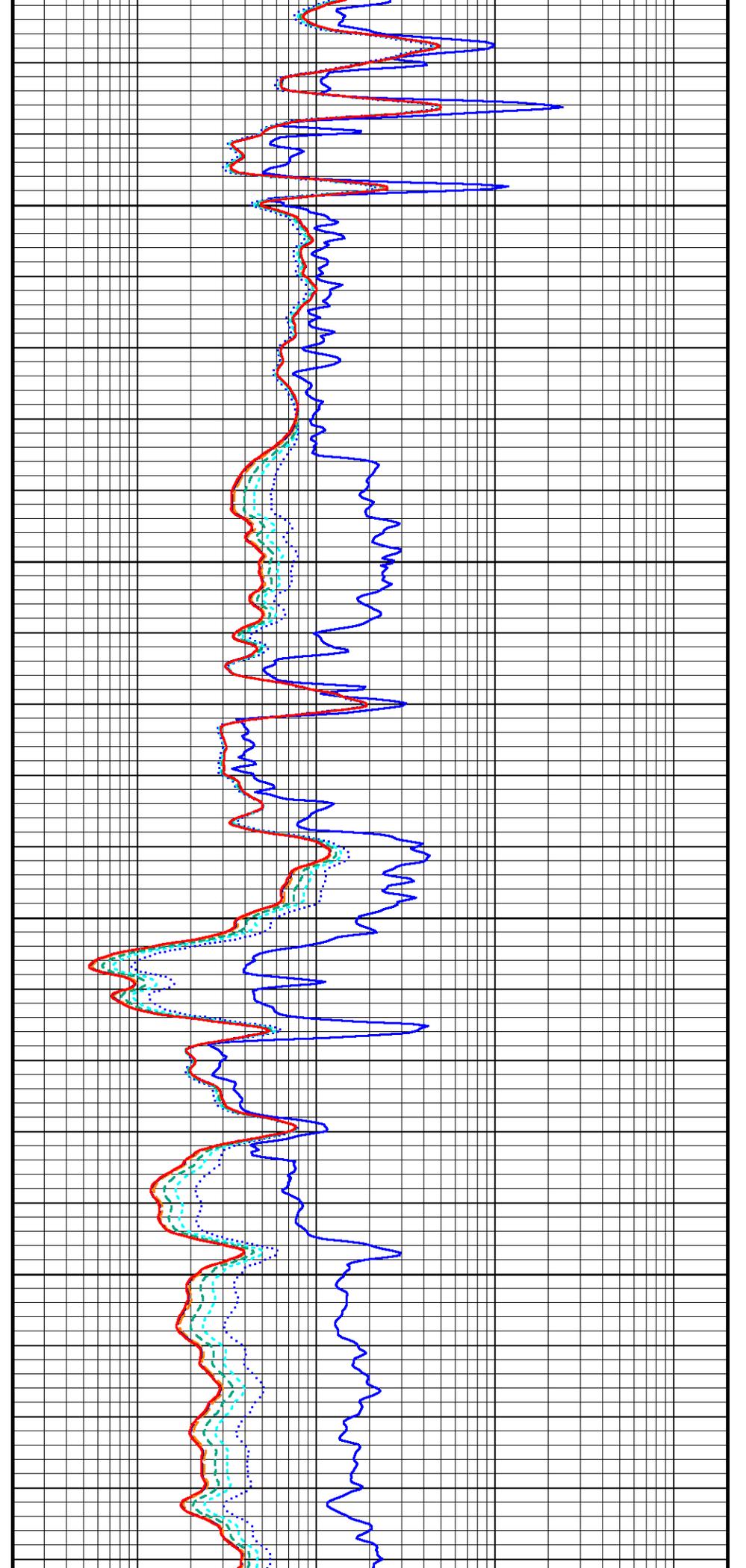
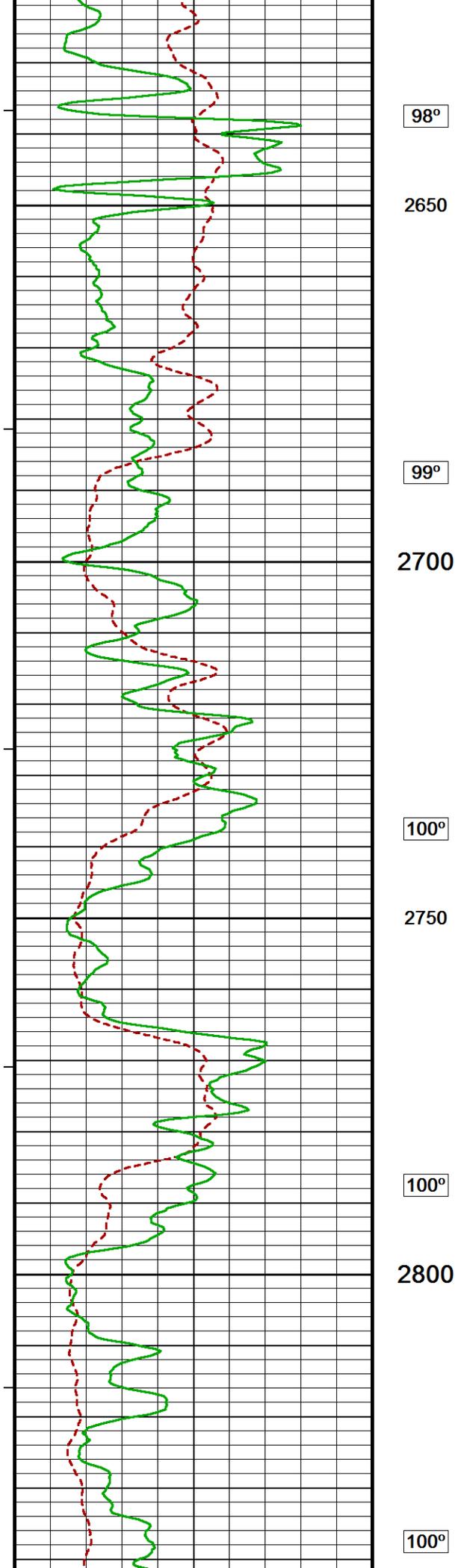
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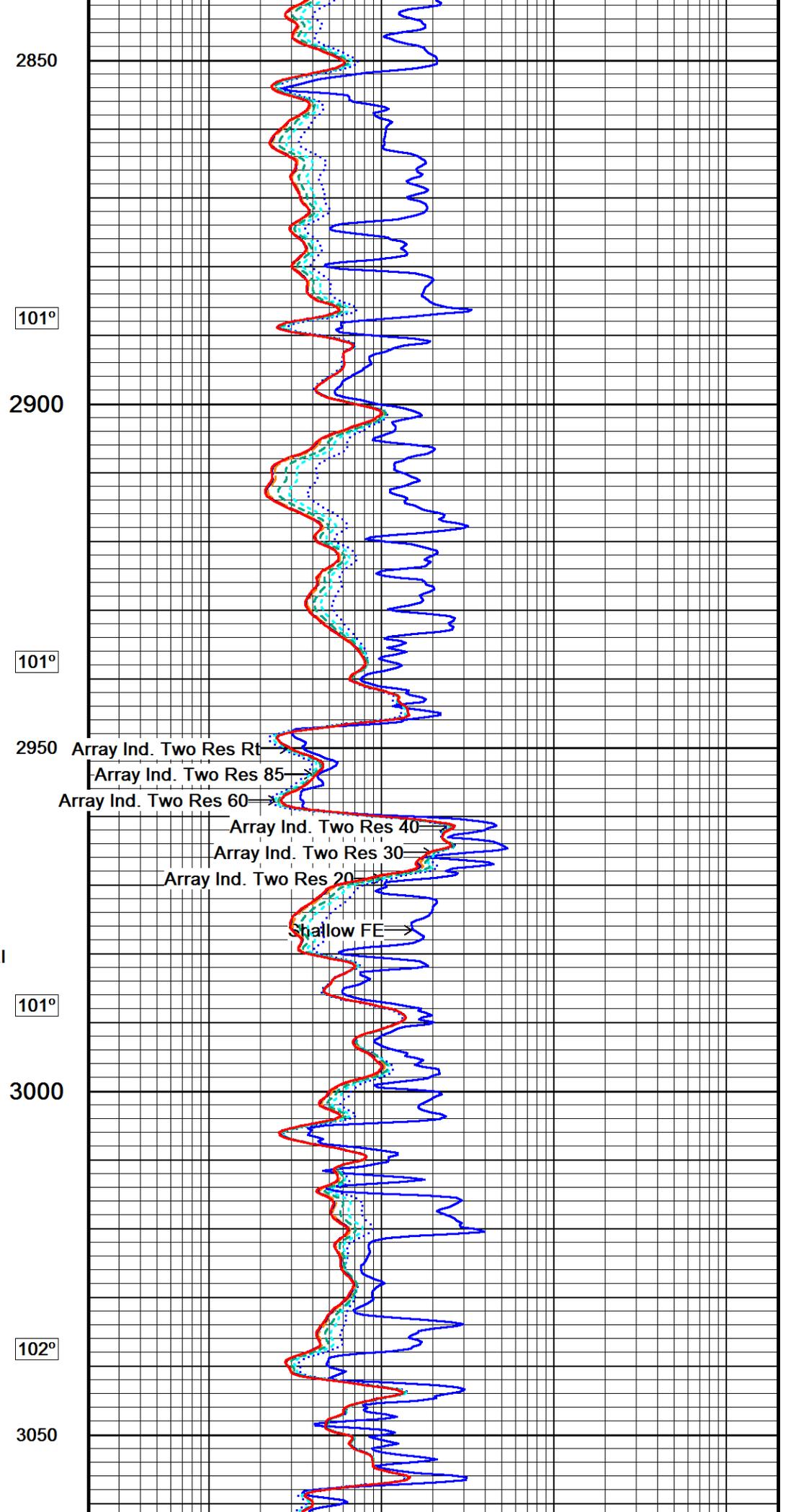
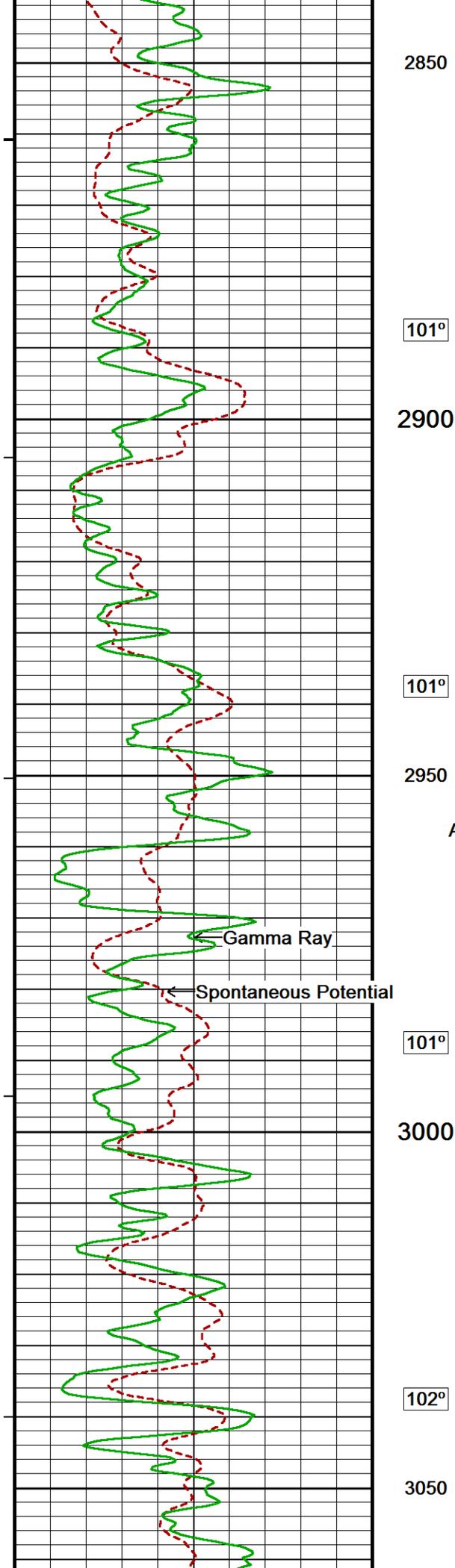
Array Ind. Two Res 40

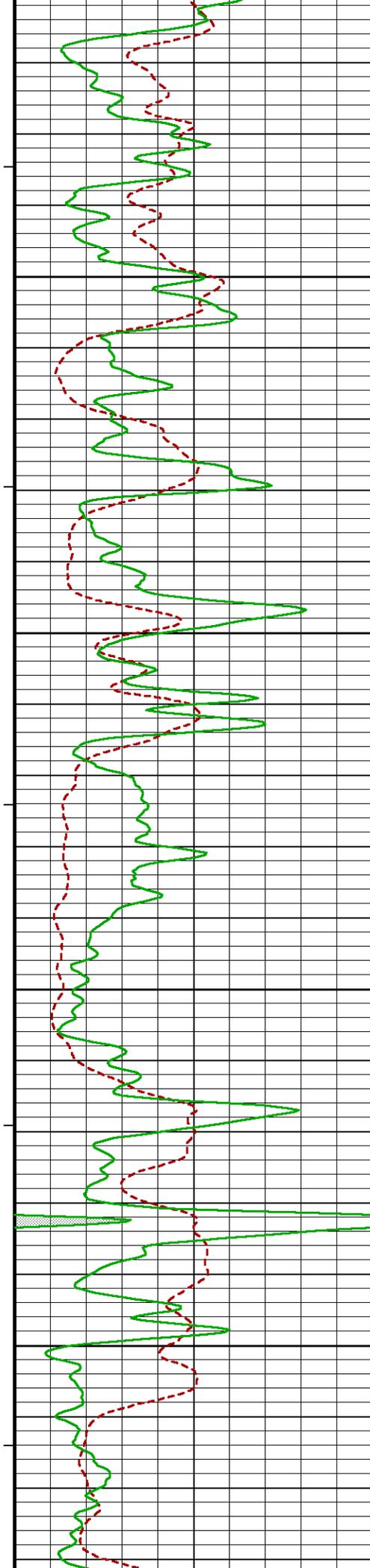
Array Ind. Two Res 30

Array Ind. Two Res 20

Shallow EE







102°

3100

102°

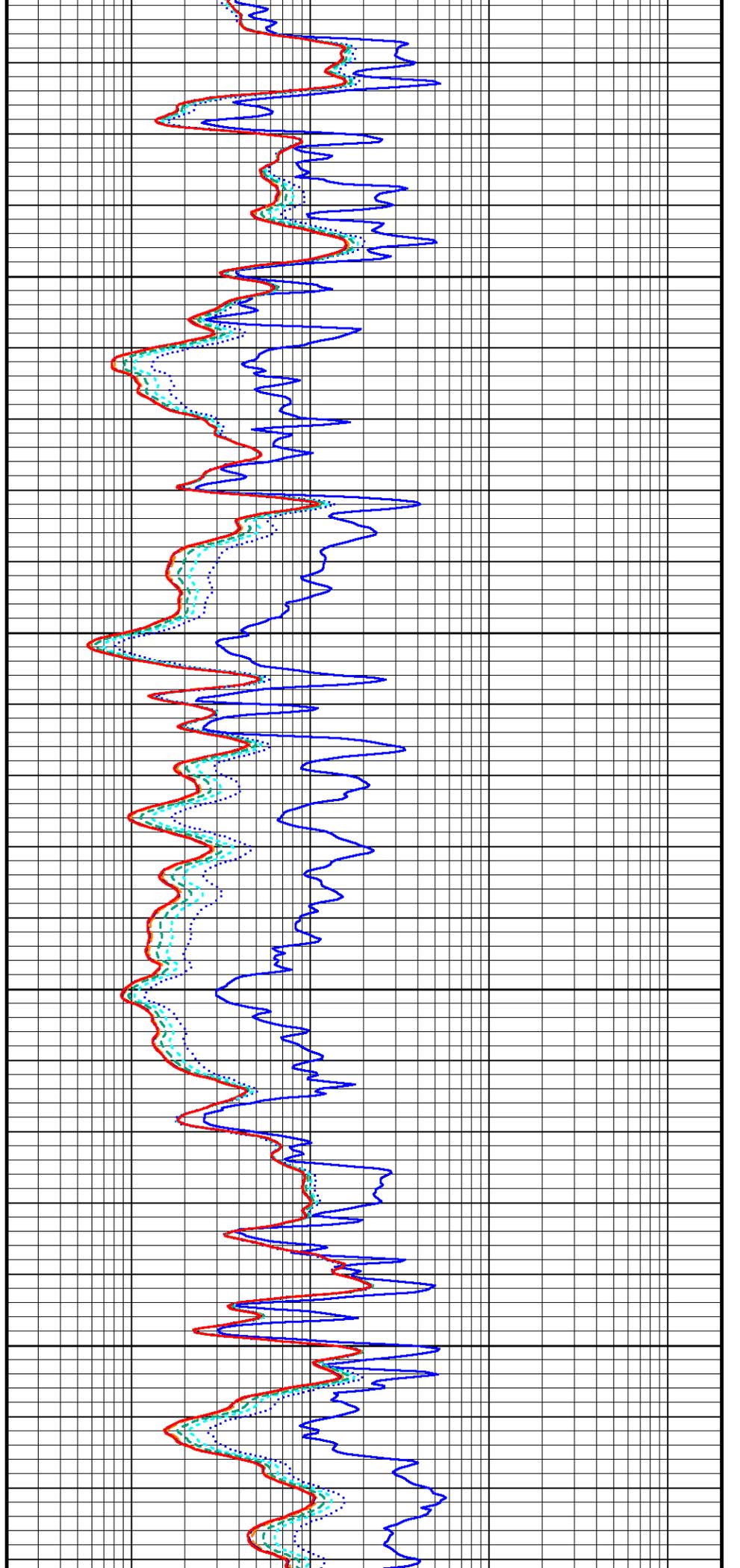
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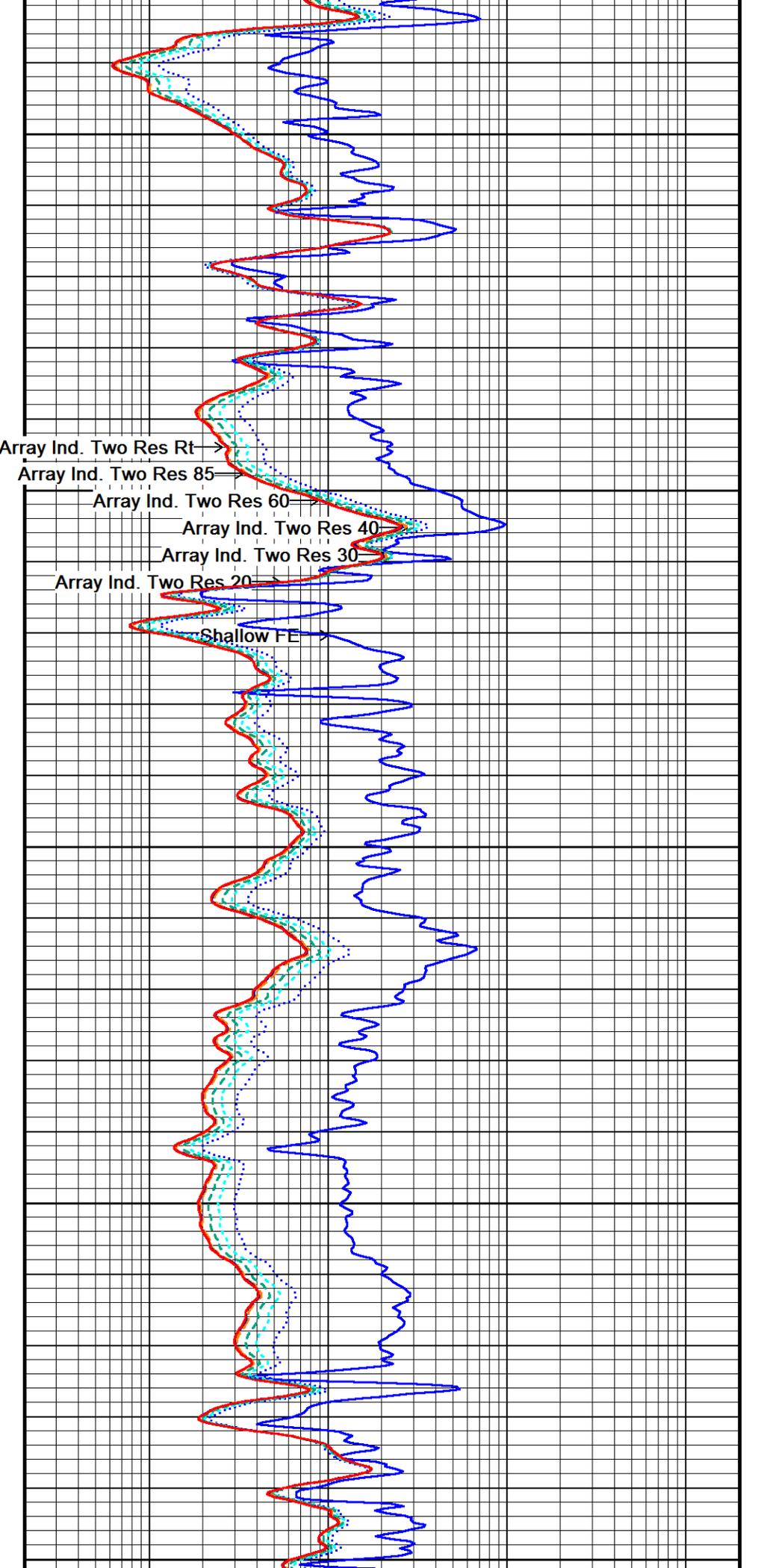
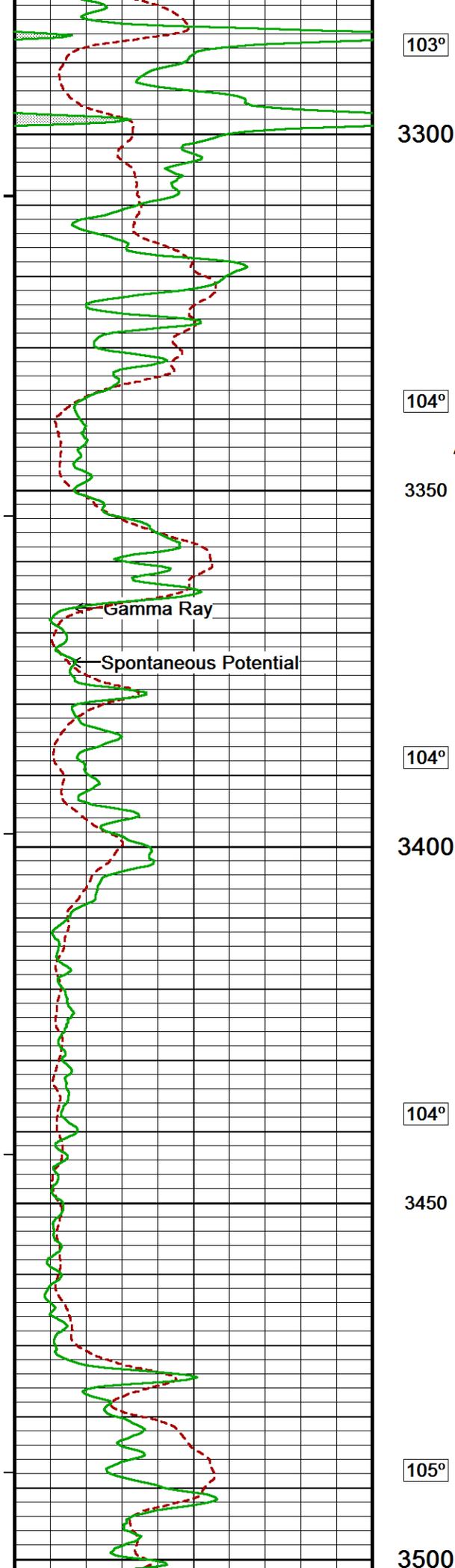
102°

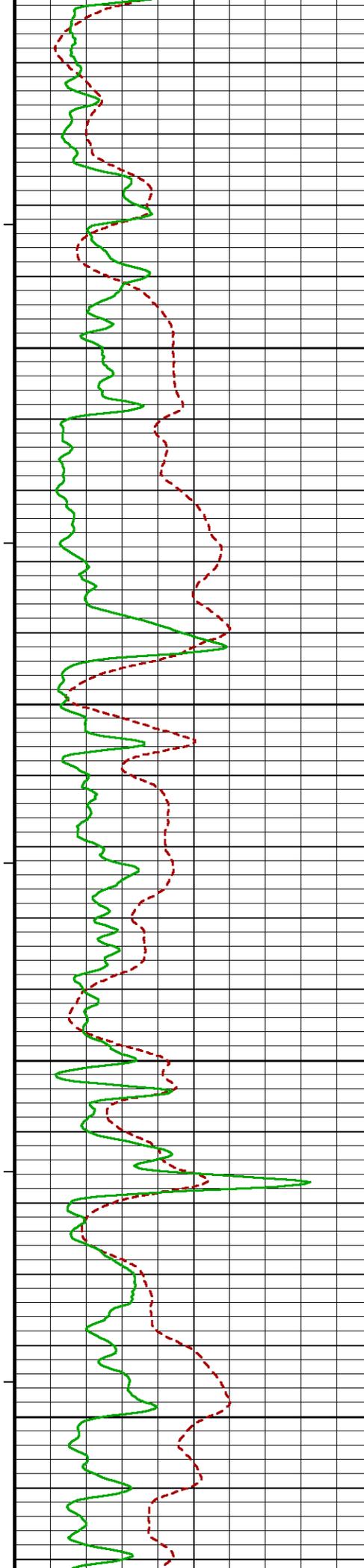
3200

103°

3250







105°

3550

105°

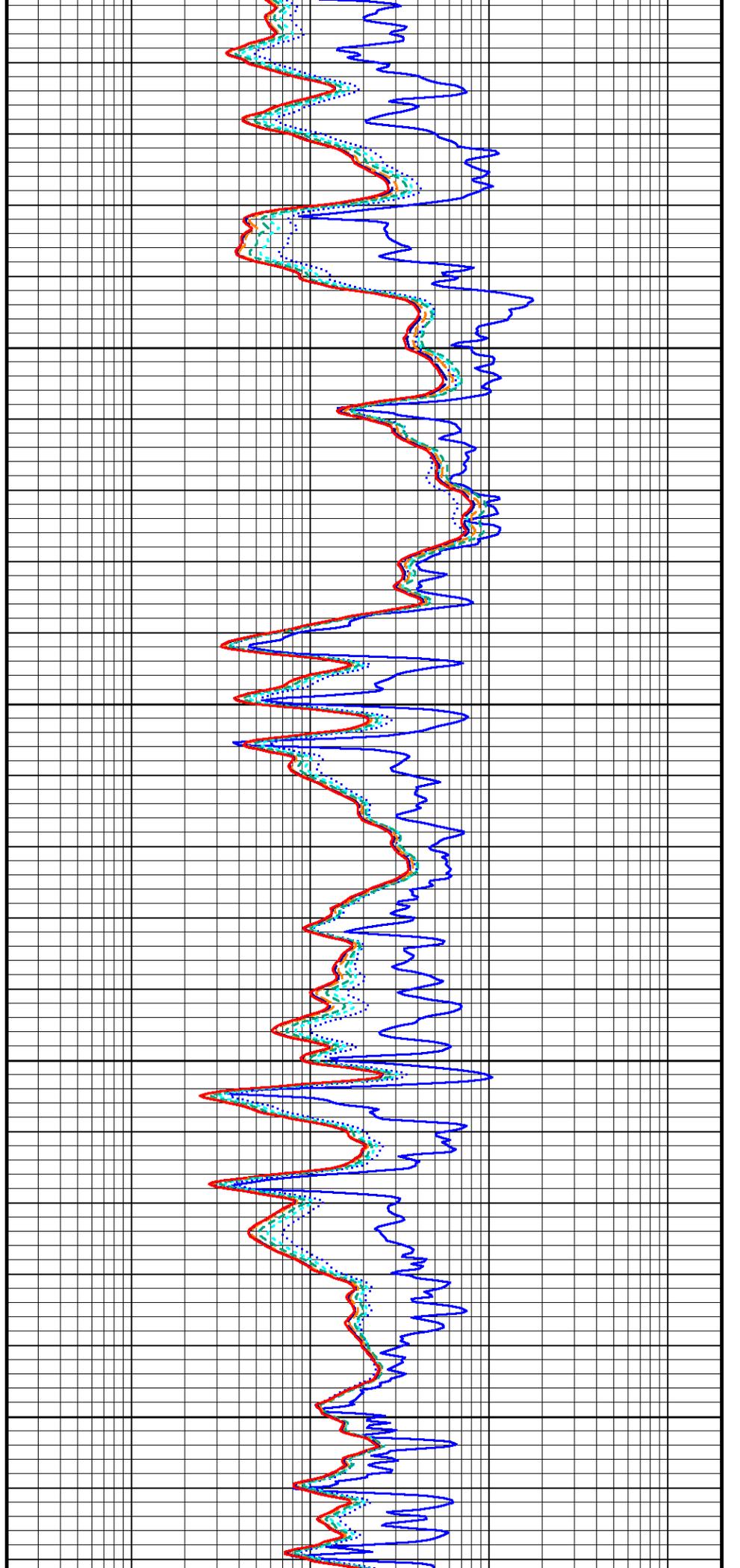
3600

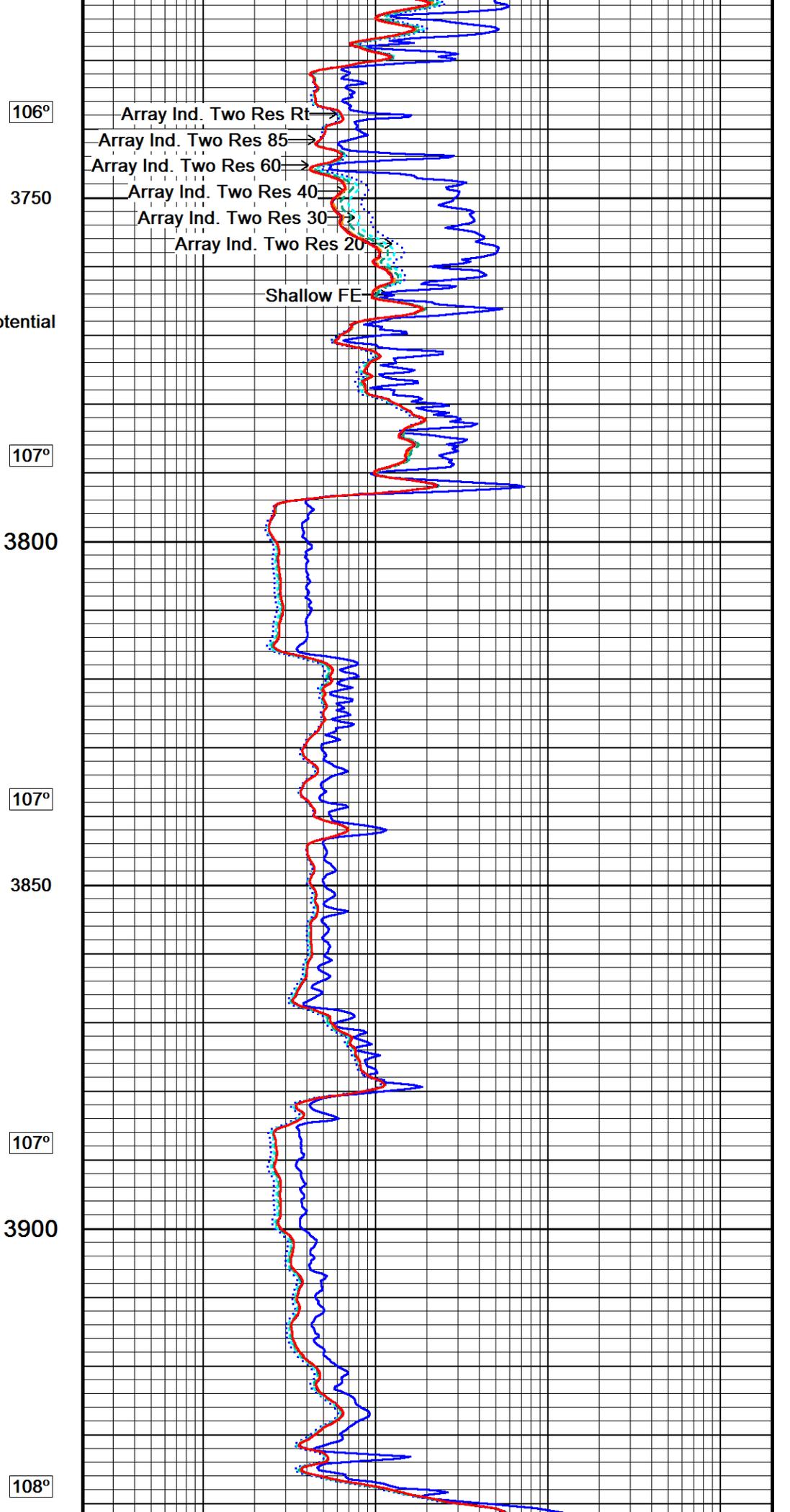
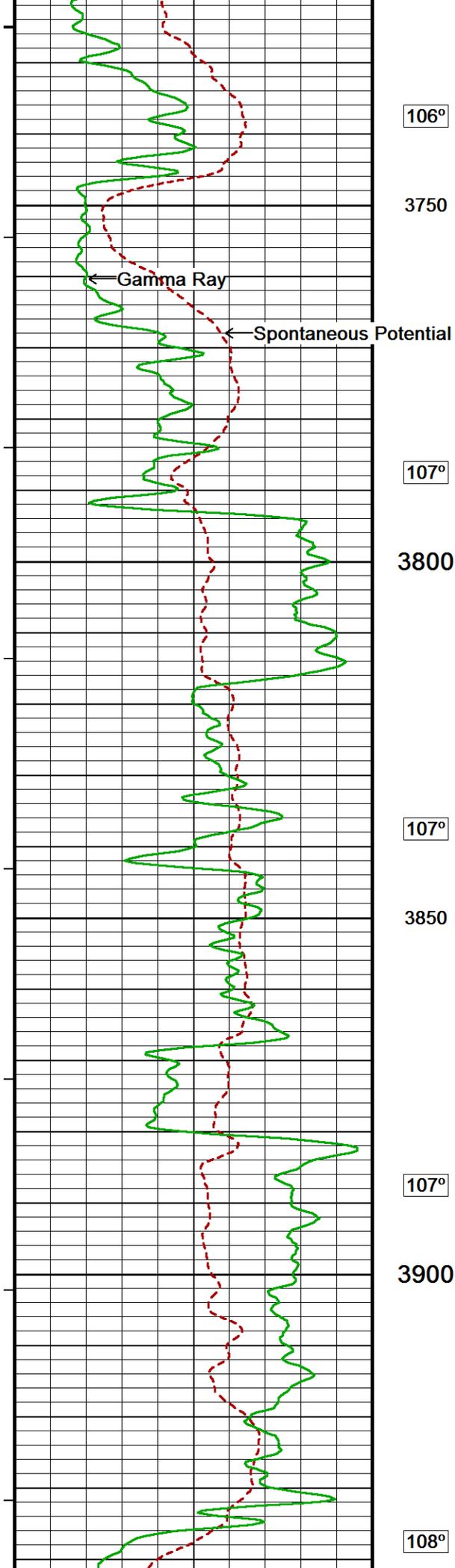
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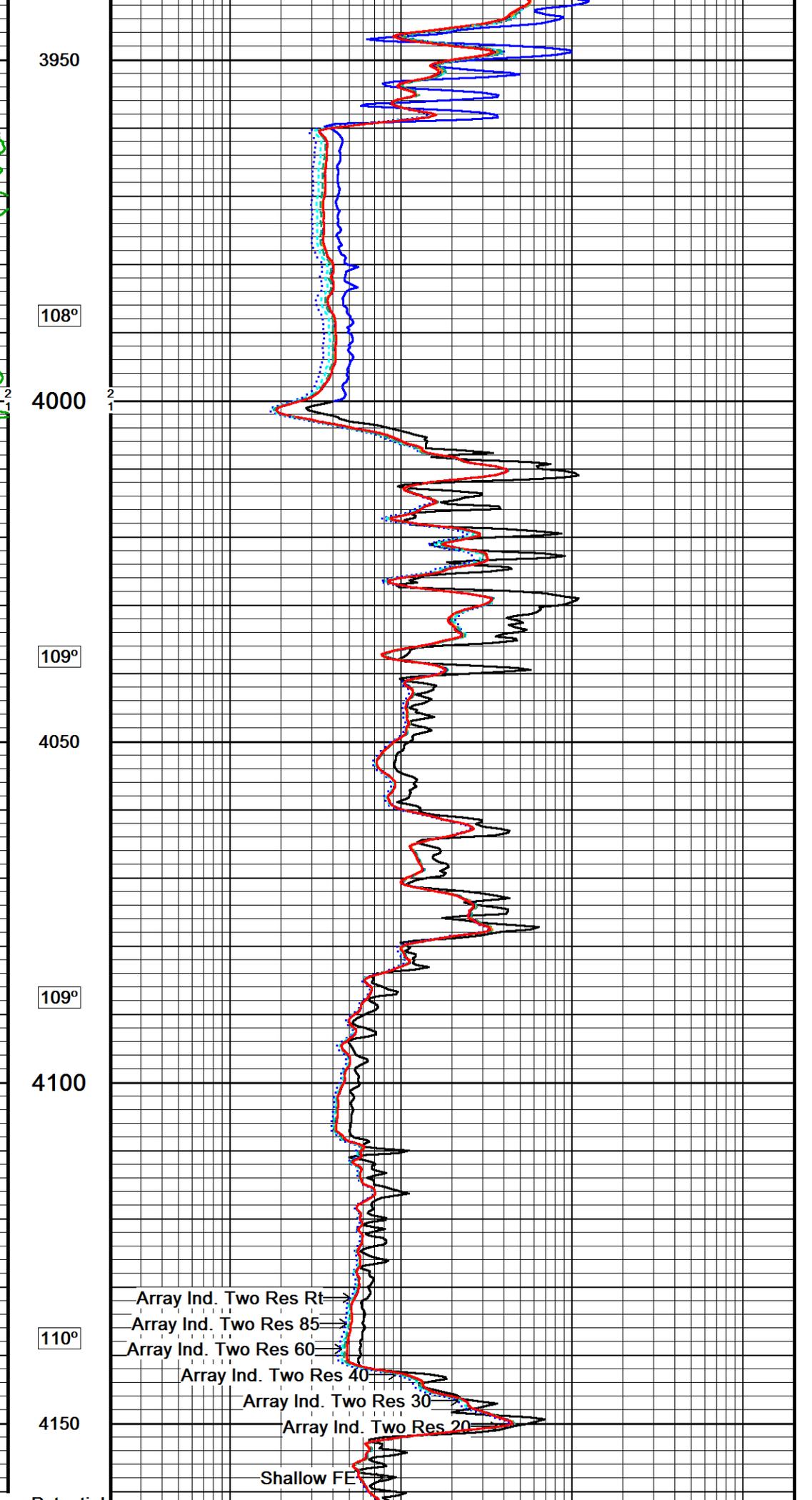
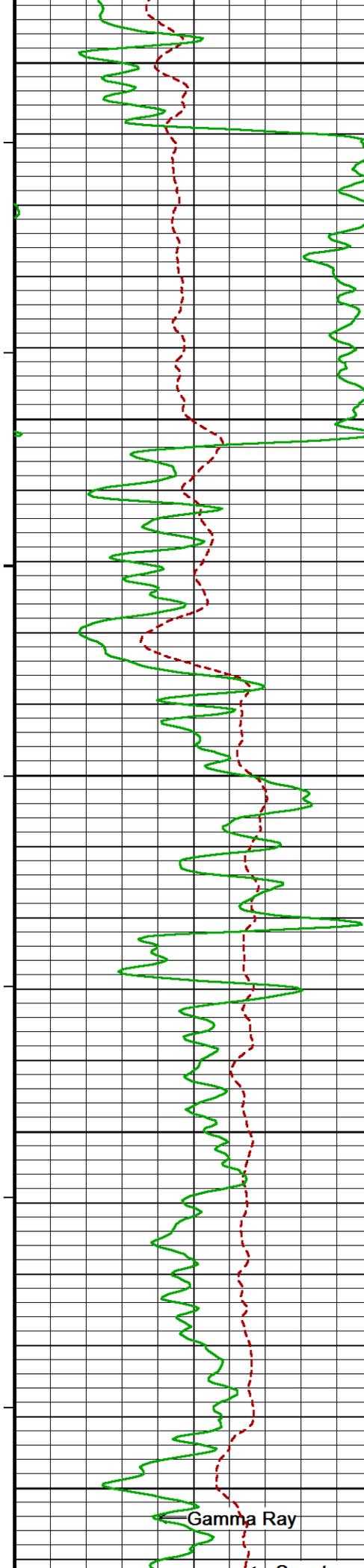
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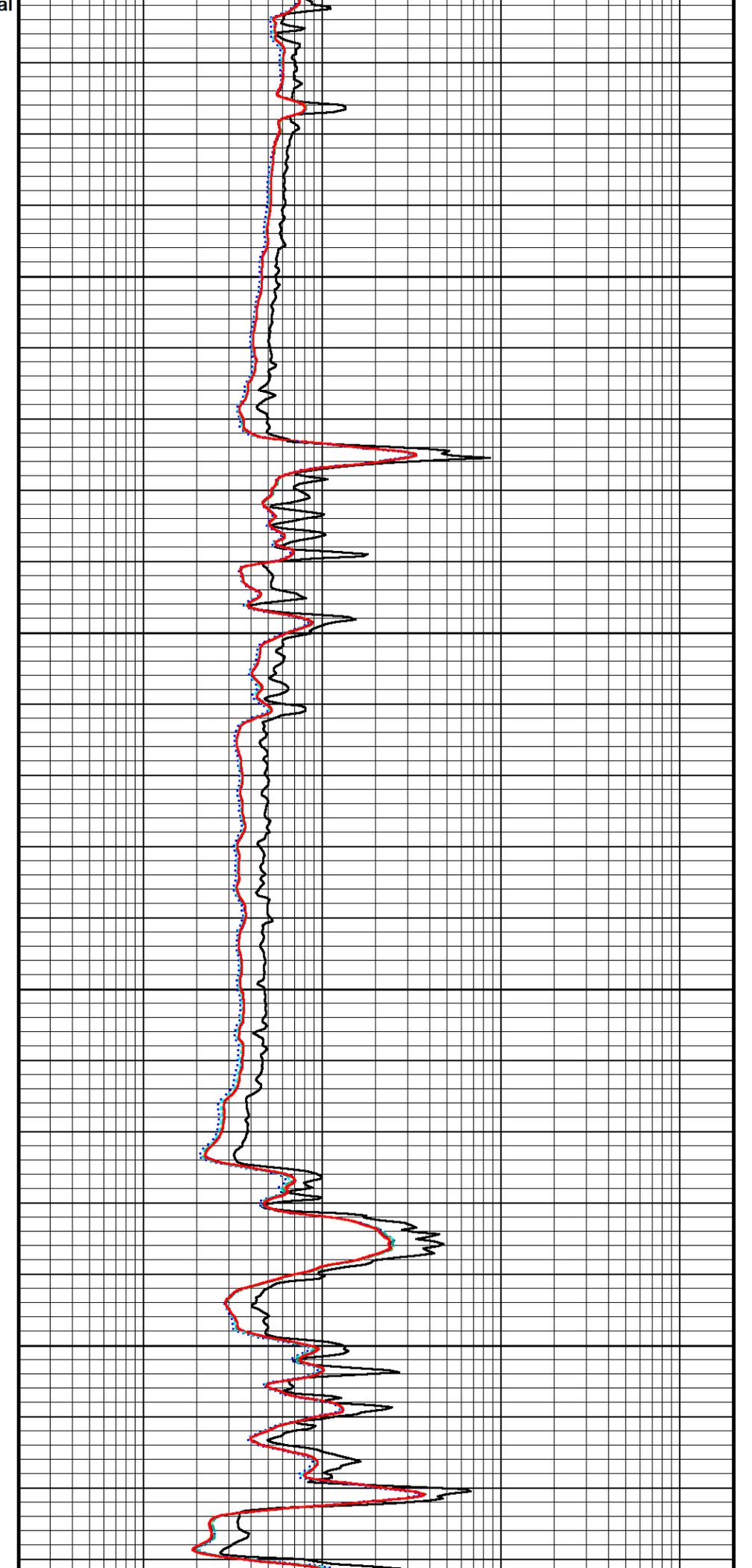
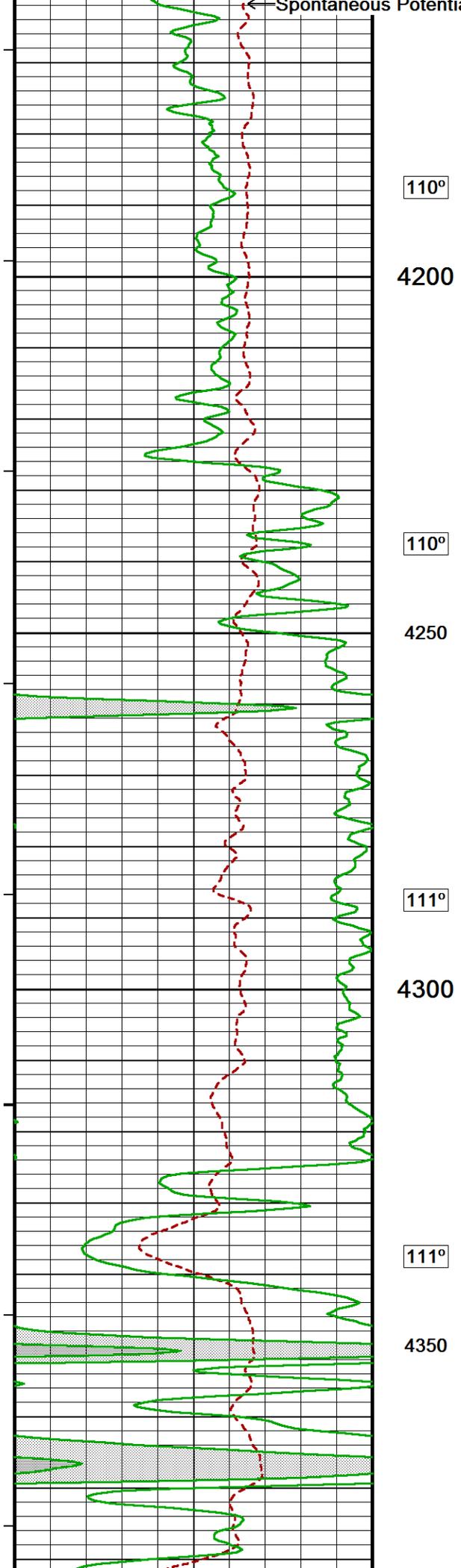
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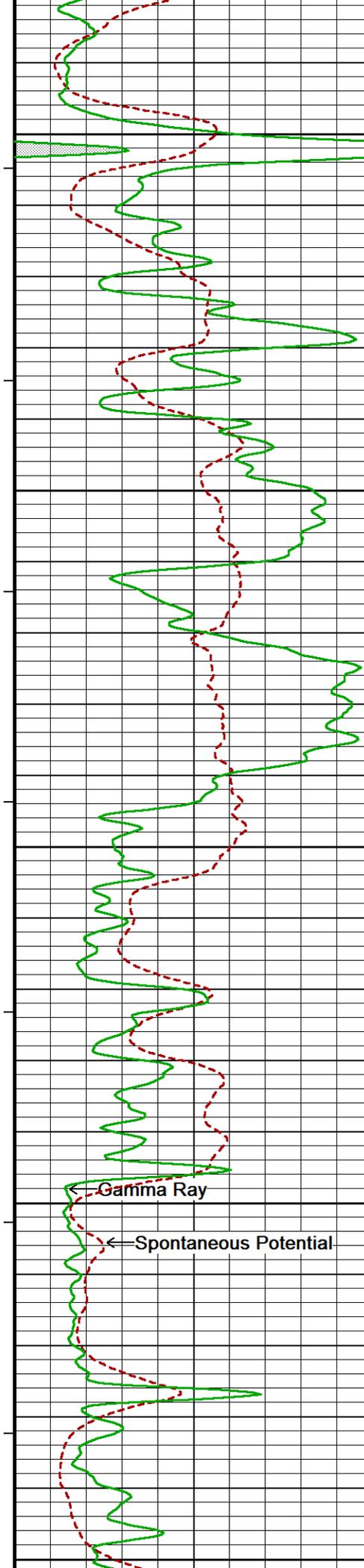
3700



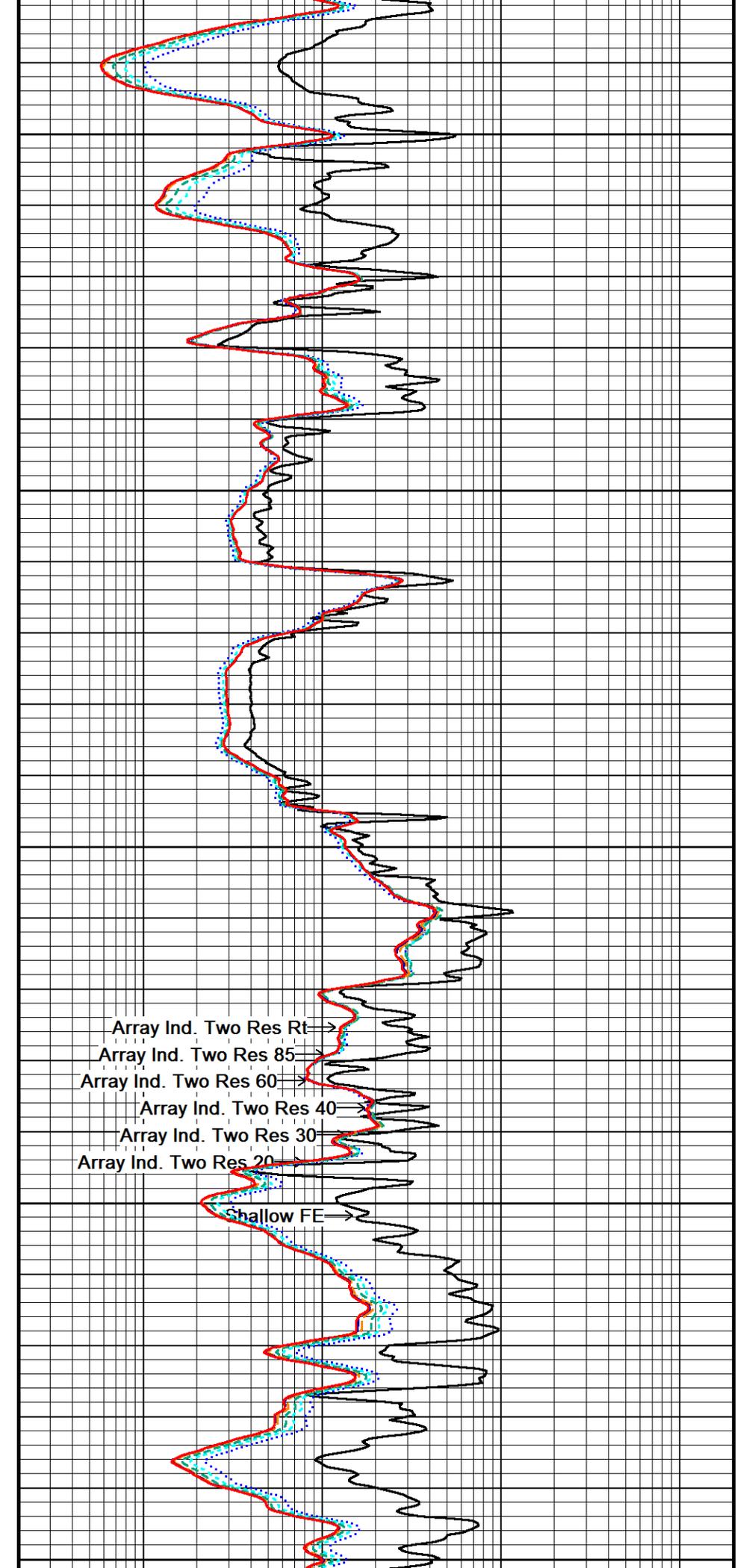


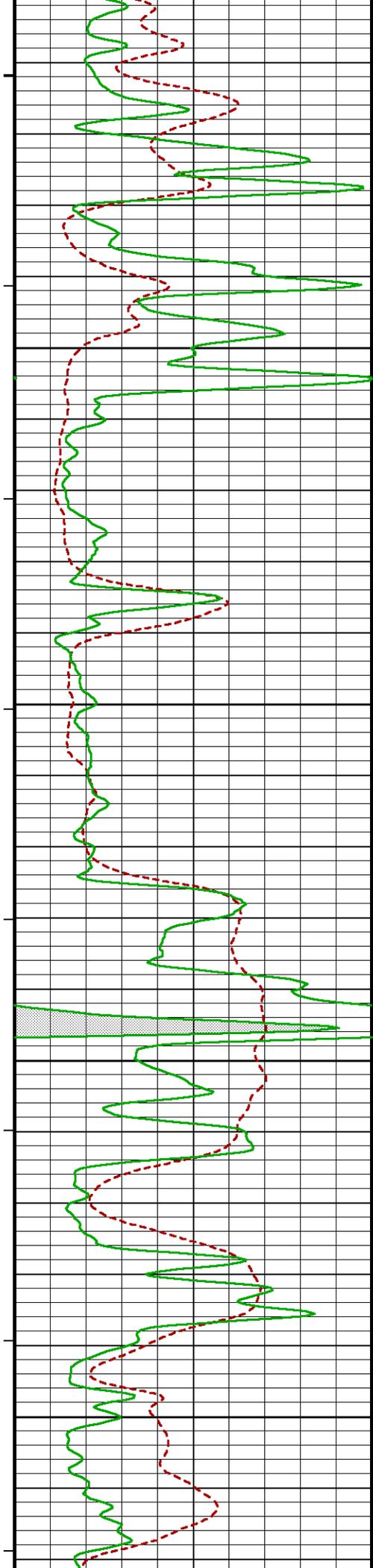






112°
4400
112°
4450
112°
4500
113°
4550
113°
4600





114°

4650

114°

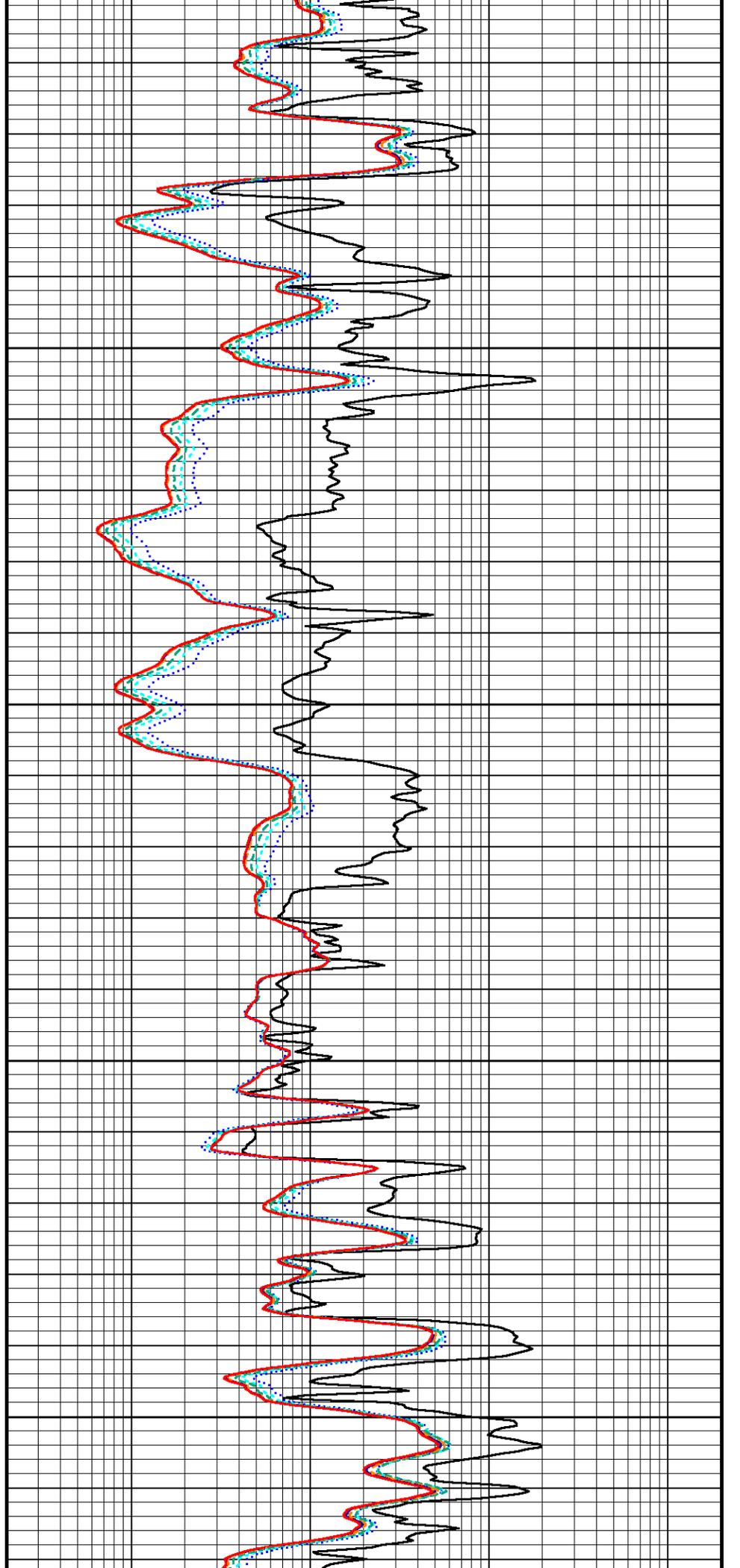
4700

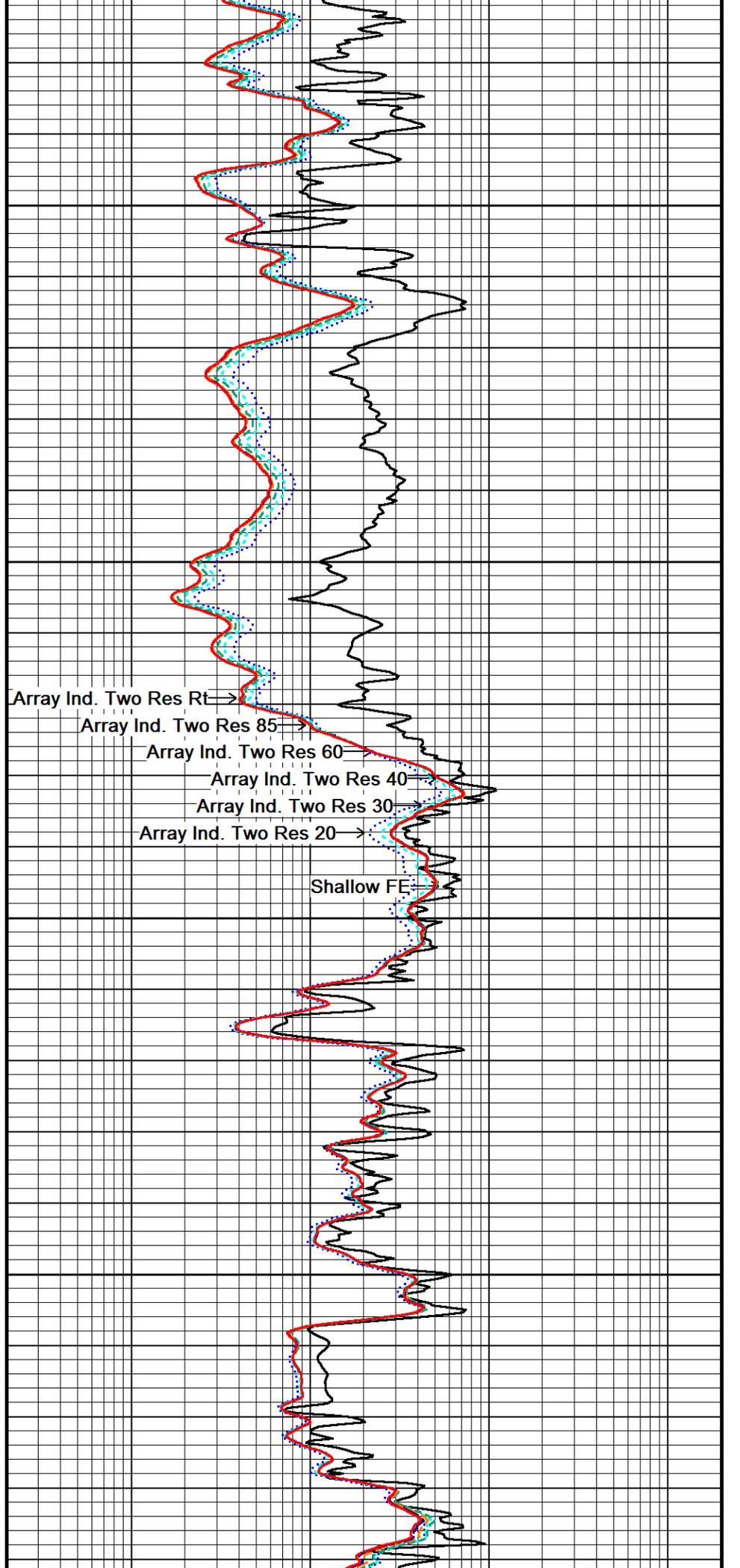
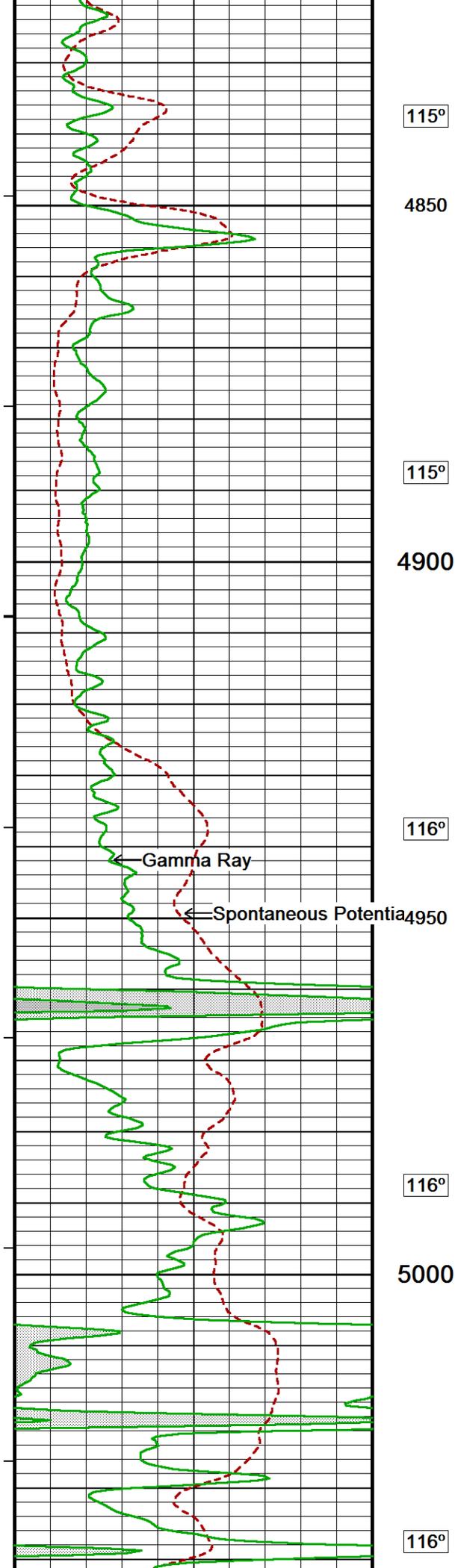
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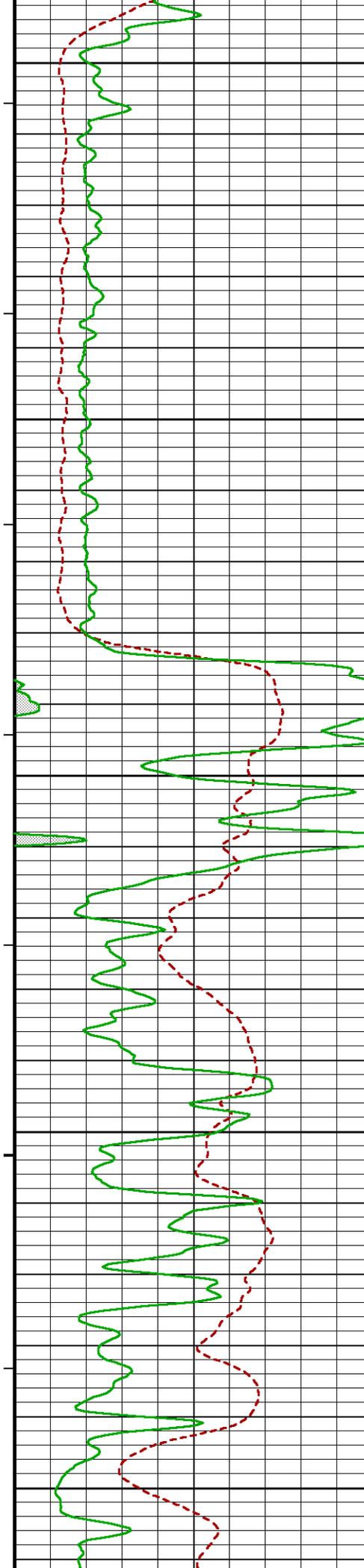
4750

115°

4800







5050

117°

5100

117°

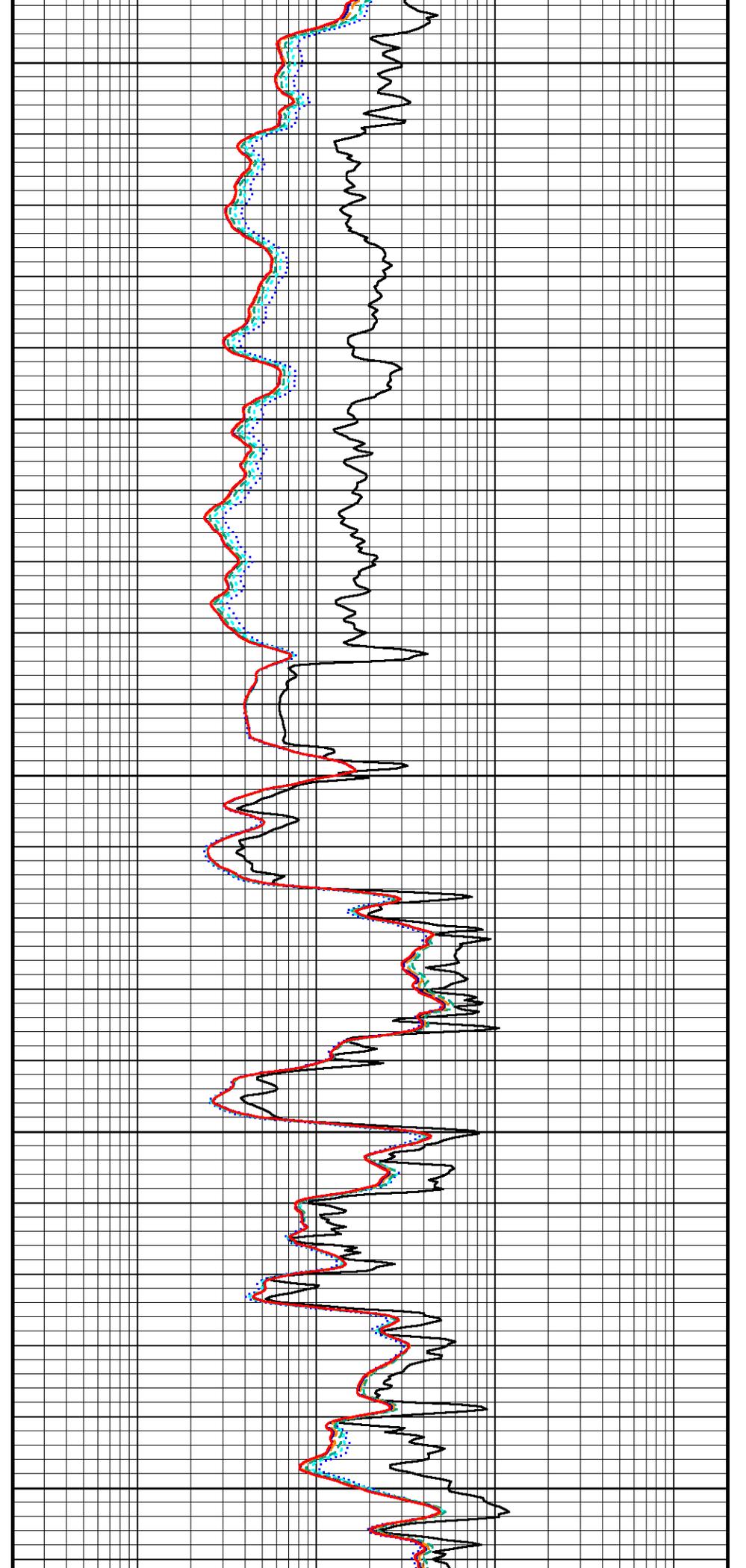
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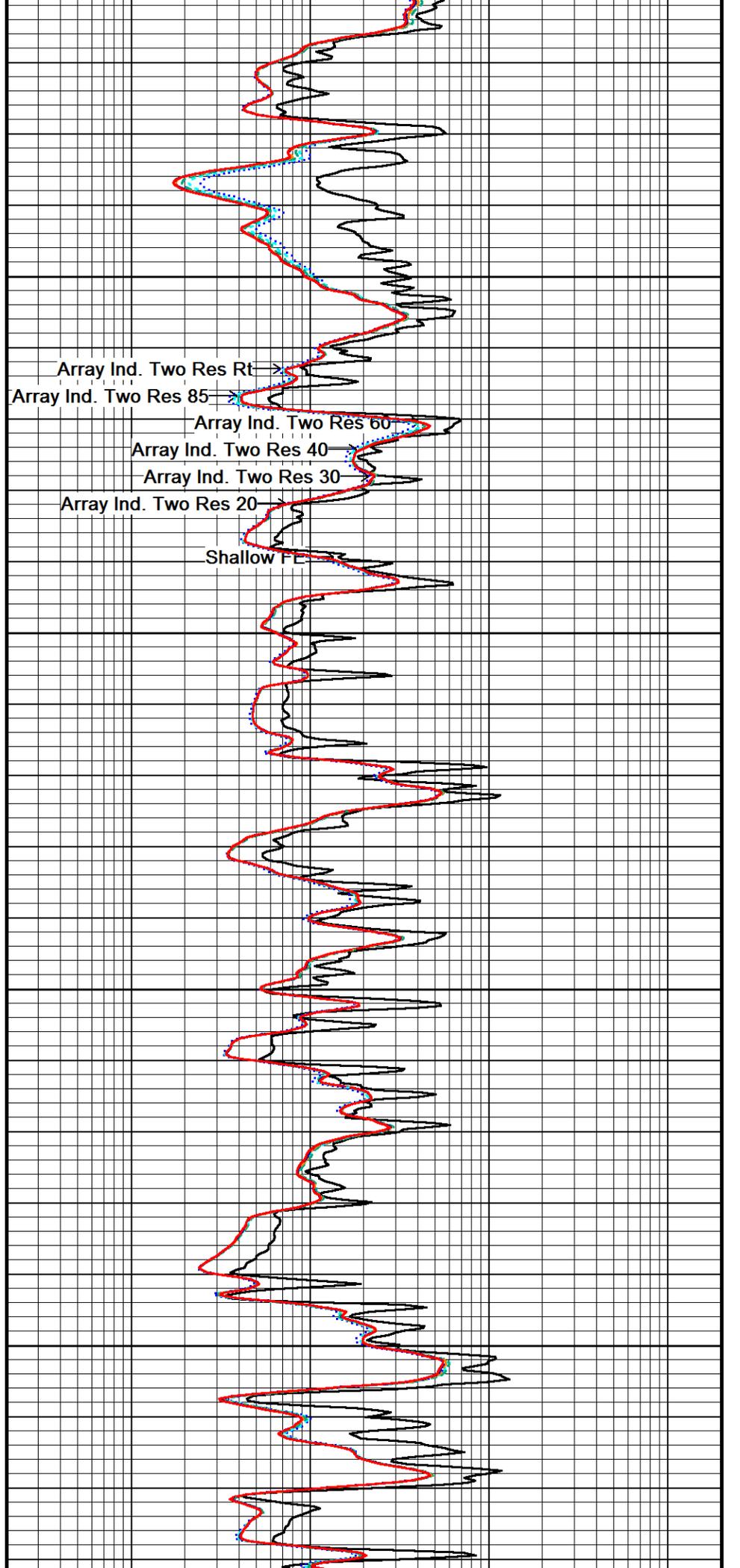
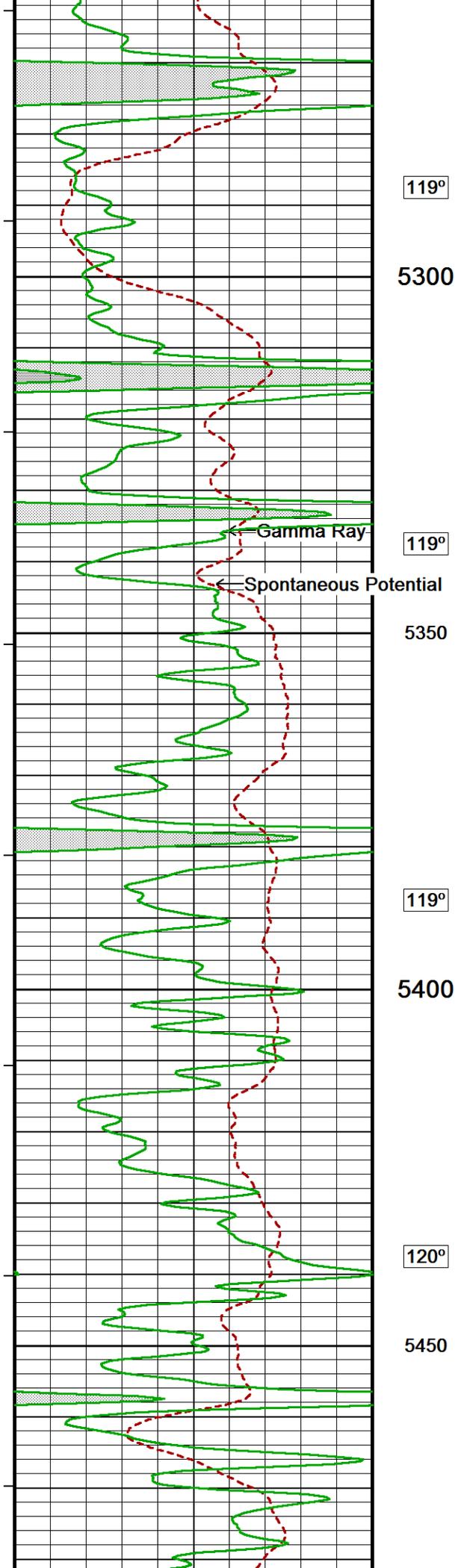
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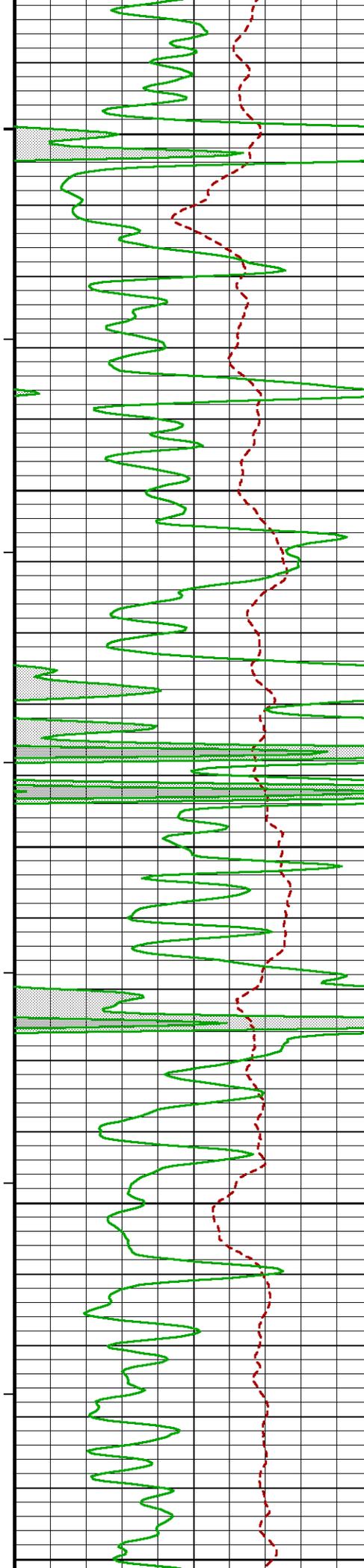
5200

118°

5250







120°

5500

120°

5550

121°

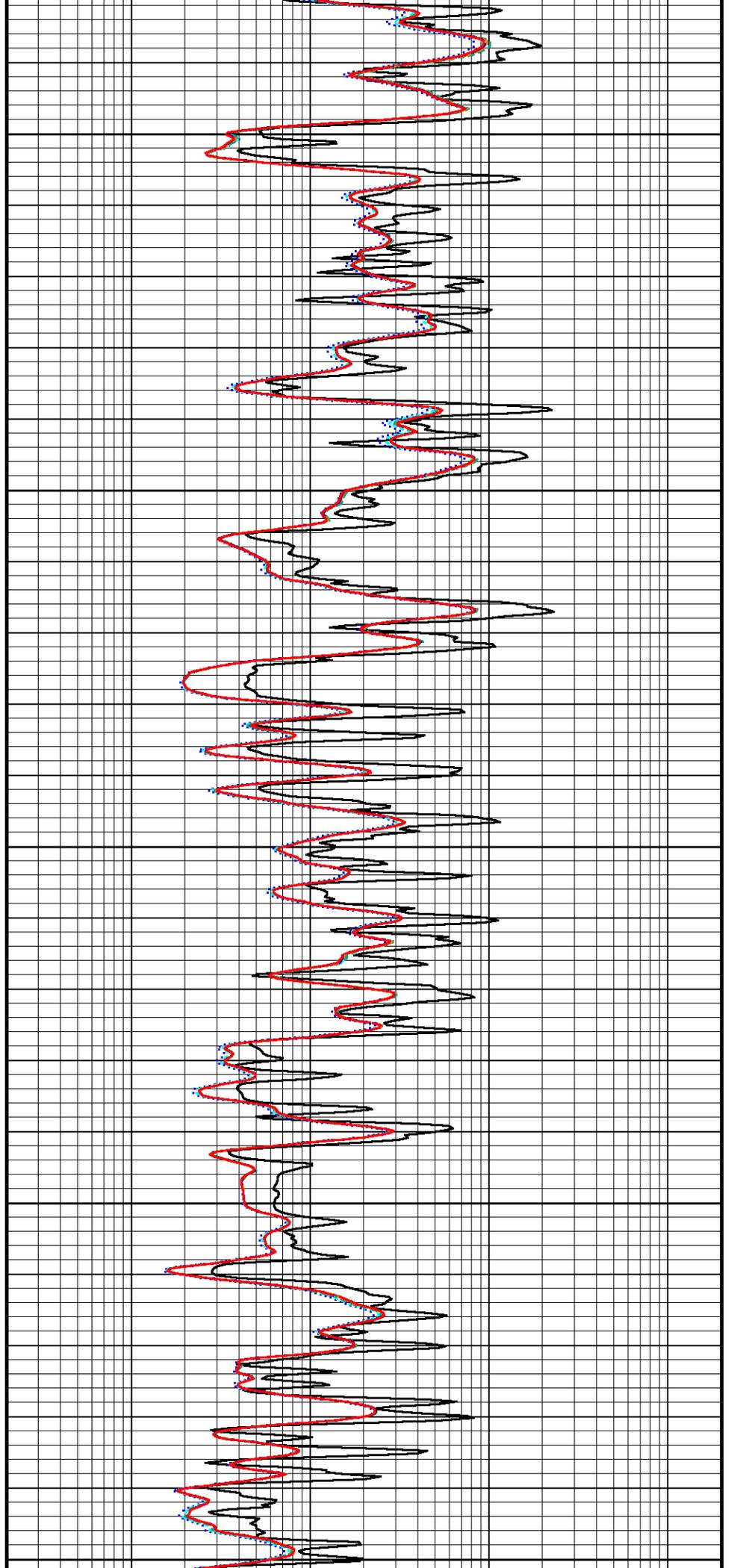
5600

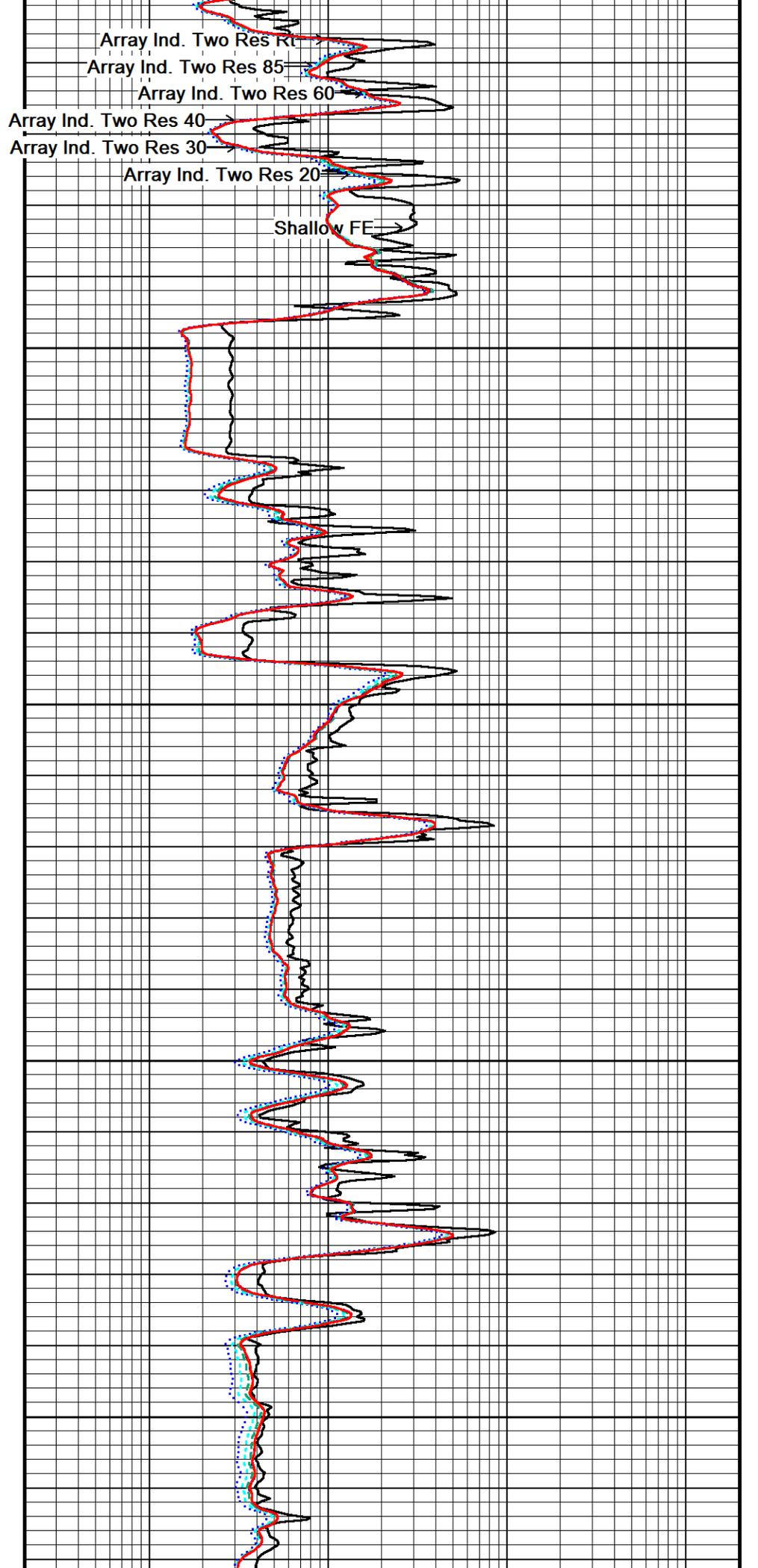
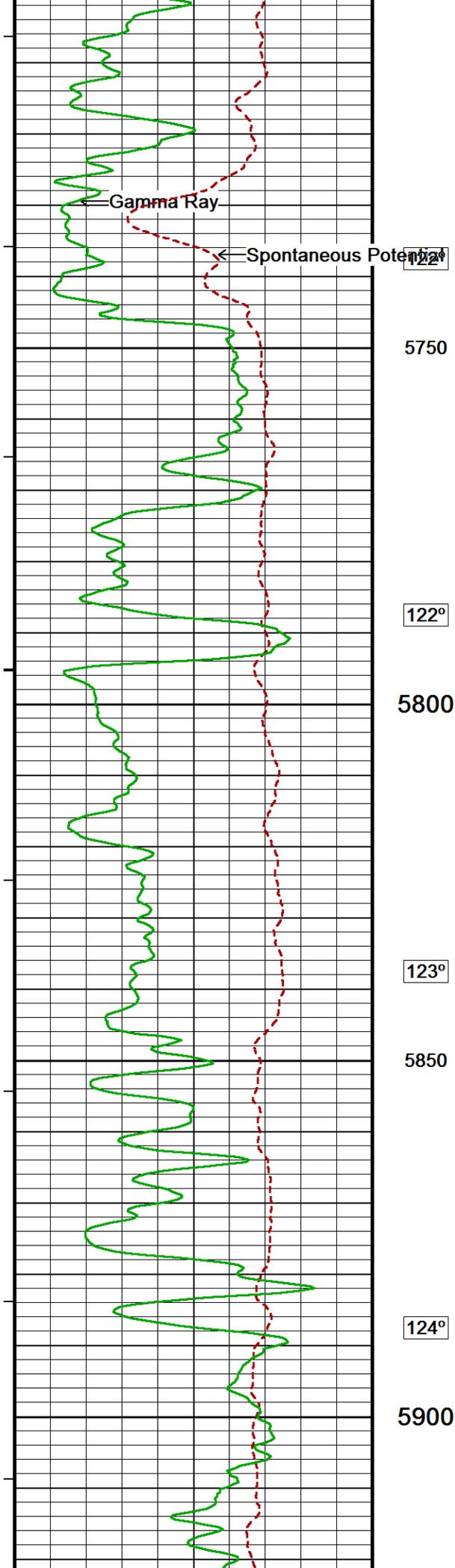
122°

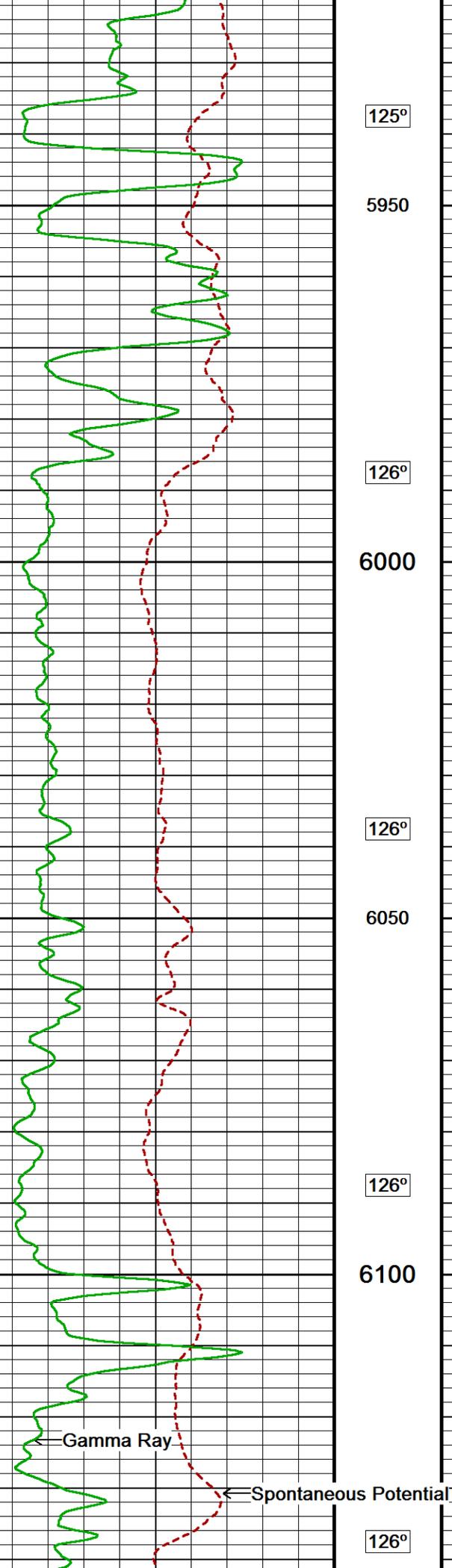
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122°

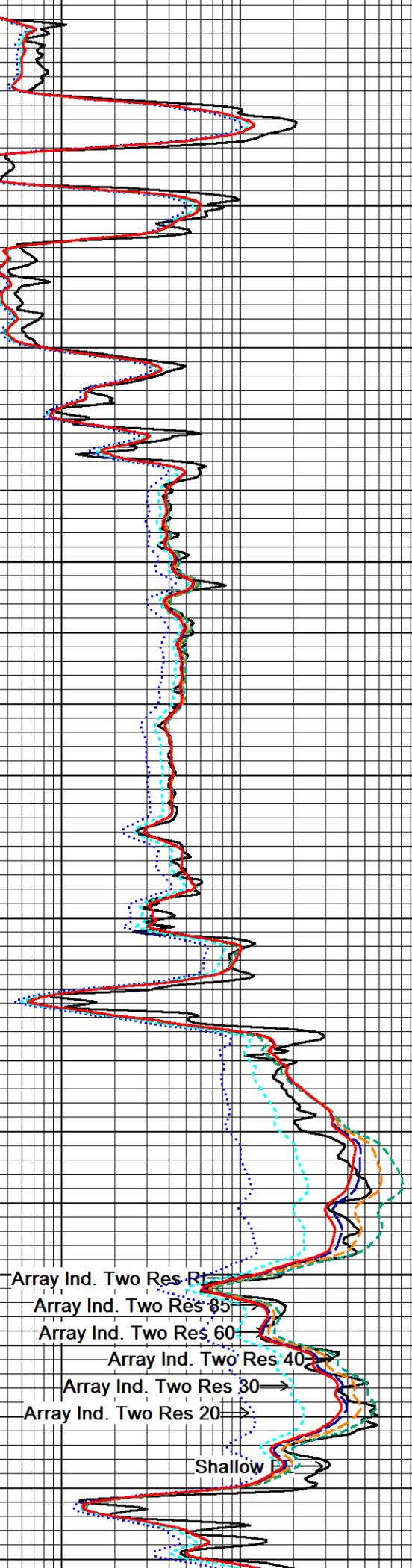
5700



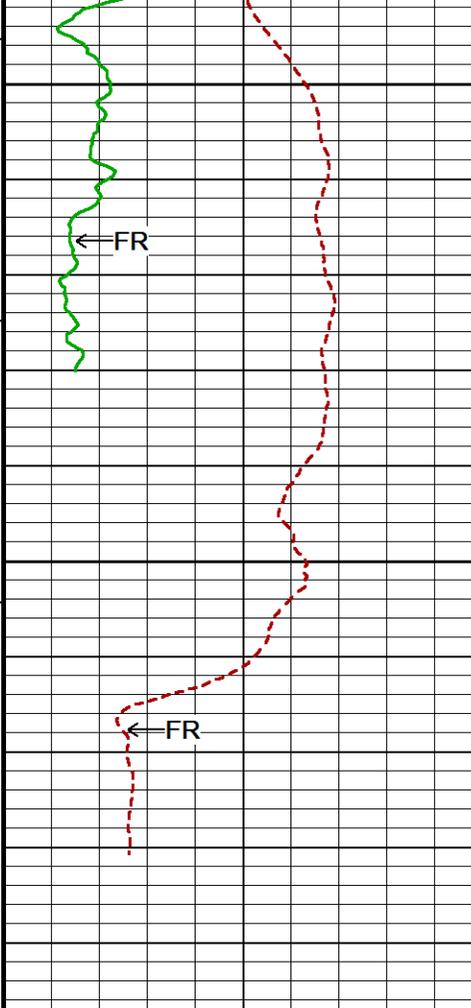




125°
5950
126°
6000
126°
6050
126°
6100
126°



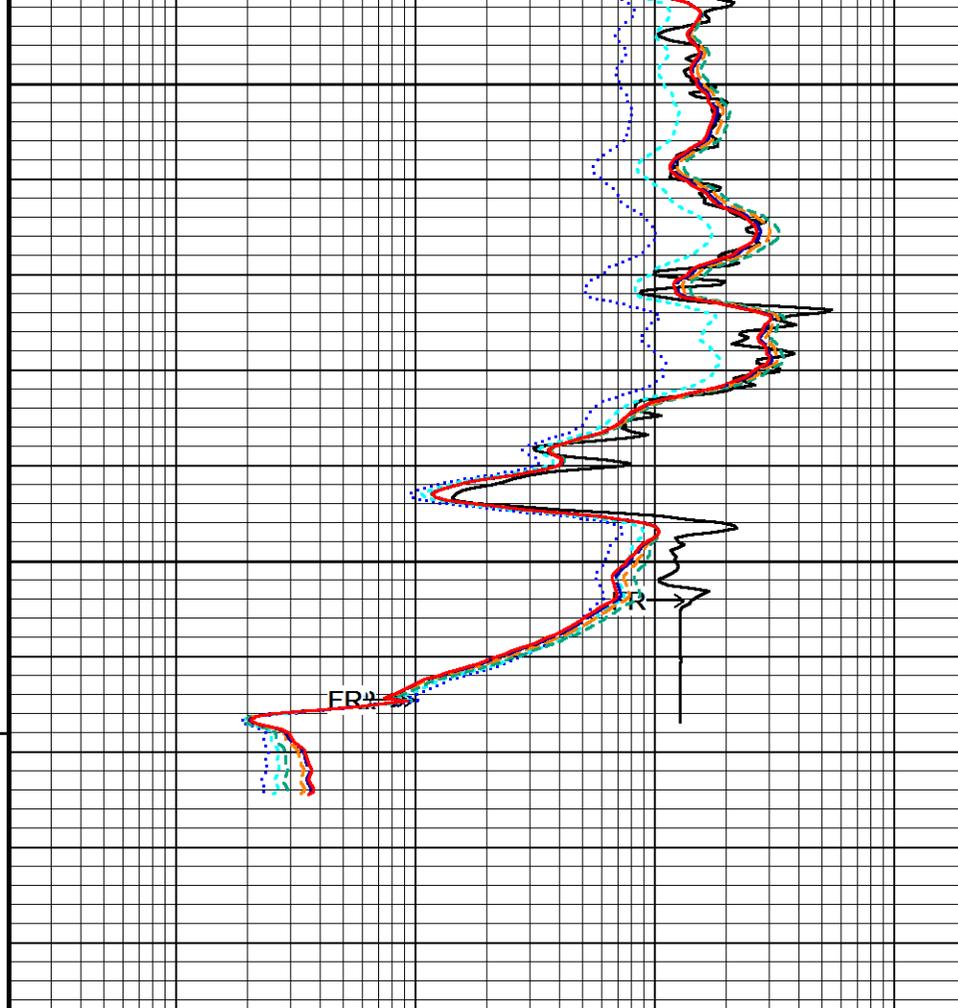
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
Array Ind. Two Res 20
Shallow P



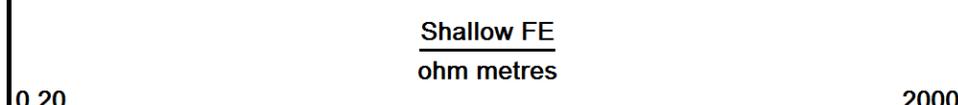
6150

6200

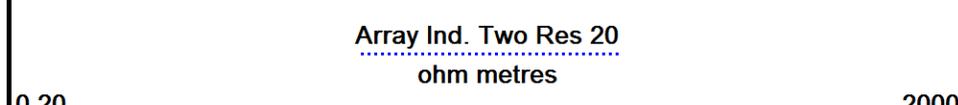
TD



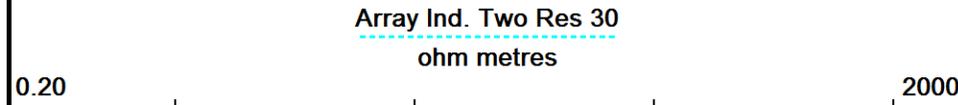
Depth in Feet



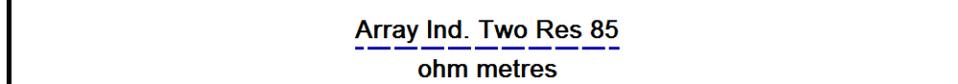
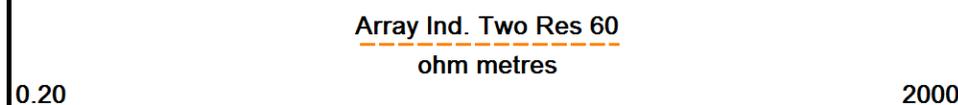
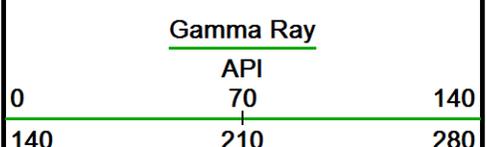
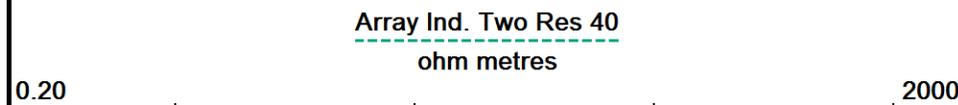
← Timing Marks every 60.0 sec

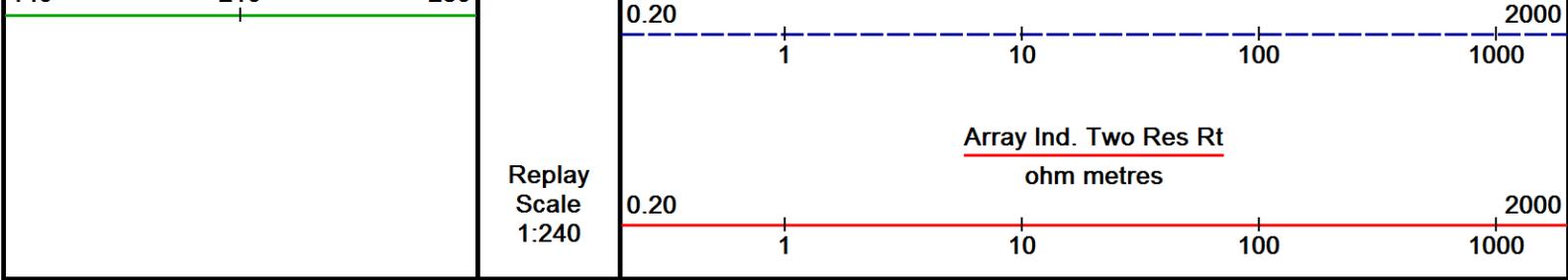


Spontaneous Potential
millivolts
- -> | 20 | <- - +



Borehole Temp in deg F



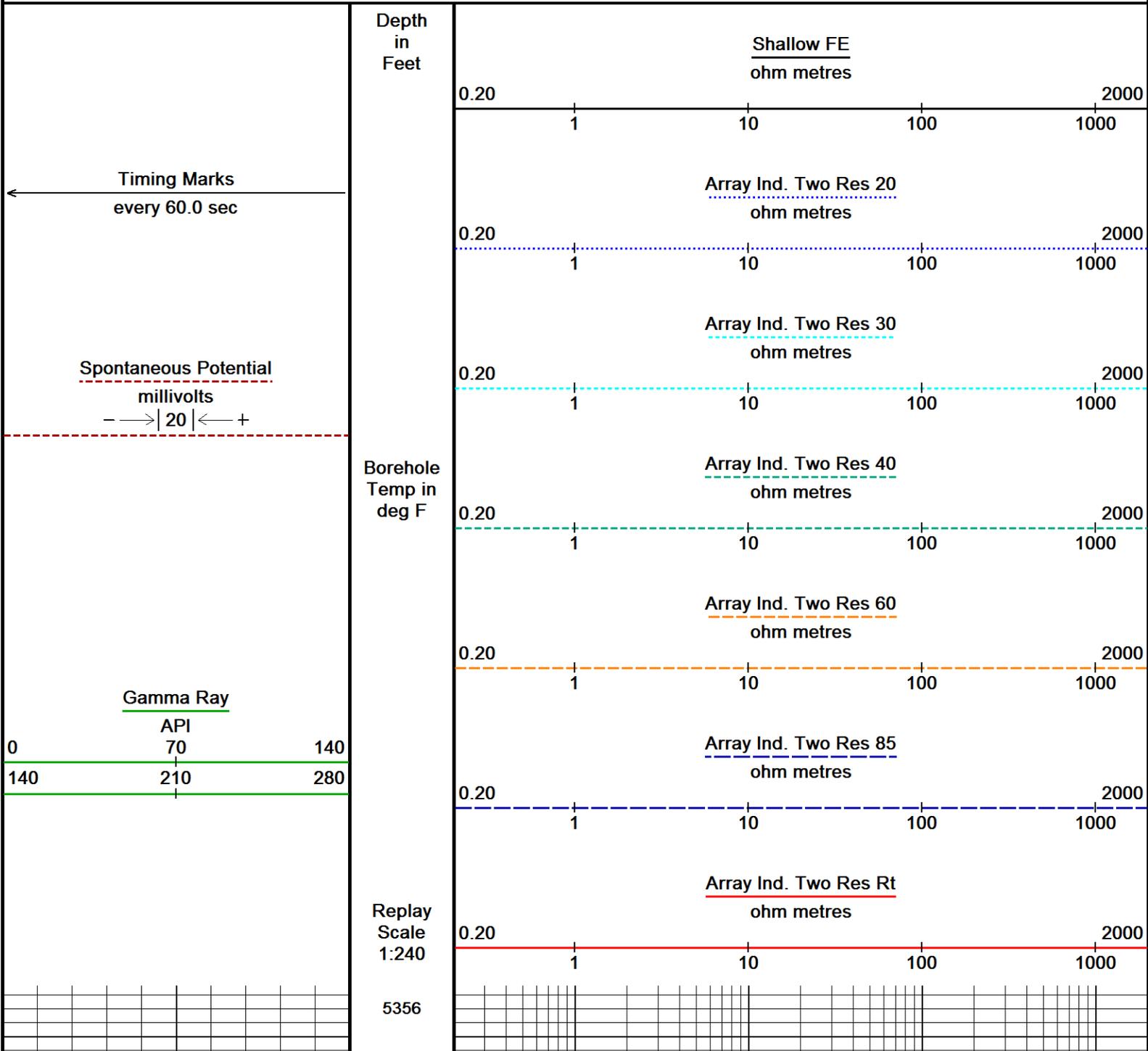


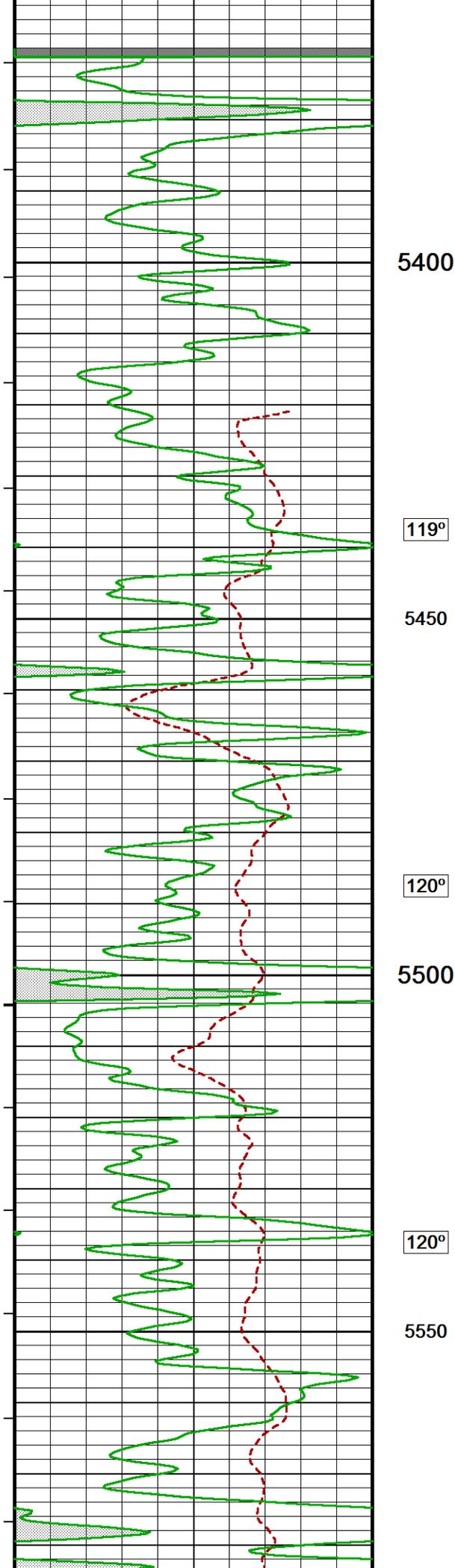
Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 16-SEP-2022 13:58
 Filename: C:_LOGS\O'Brien Energy Resources Corp\Preedy East #4-3\MAIN.dta
 Recorded on 16-SEP-2022 10:56
 System Versions: Logged with 20.11.3980 Processed with 20.11.3980 Plotted with 20.11.3980

5 INCH MAIN PASS

5 INCH REPEAT PASS

Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 16-SEP-2022 13:58
 Filename: C:_LOGS\O'Brien Energy Resources Corp\Preedy East #4-3\REPEAT.dta
 Recorded on 16-SEP-2022 09:51
 System Versions: Logged with 20.11.3980 Processed with 20.11.3980 Plotted with 20.11.3980





5400

119°

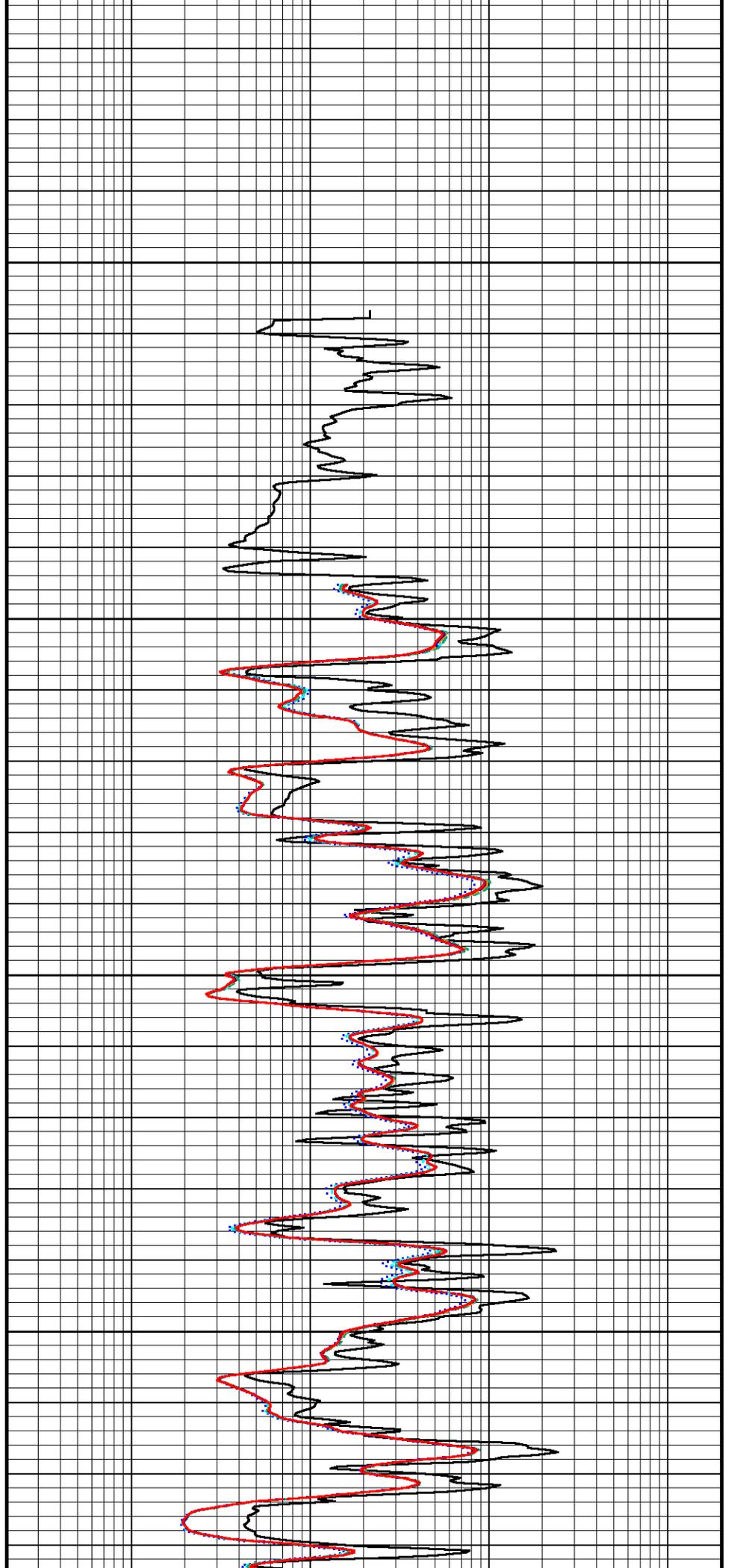
5450

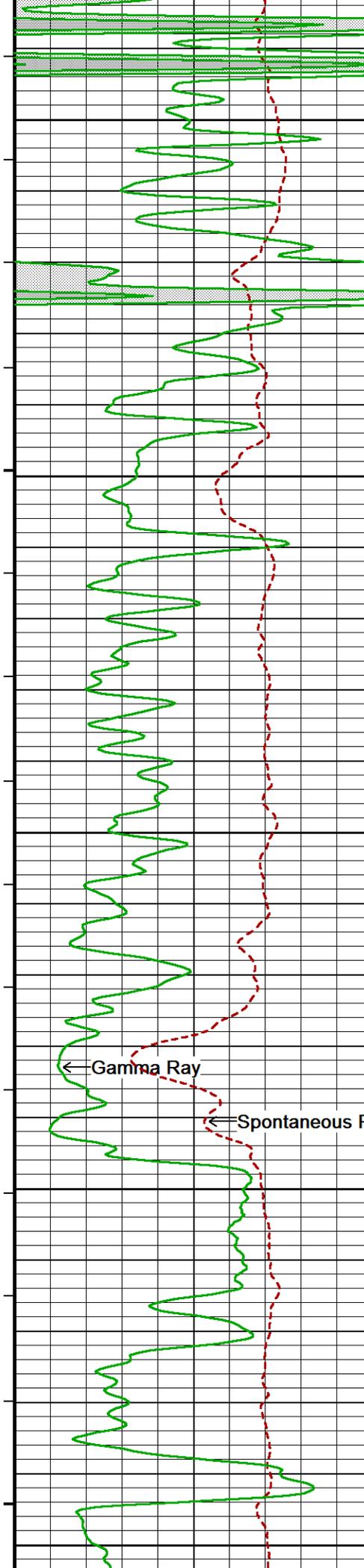
120°

5500

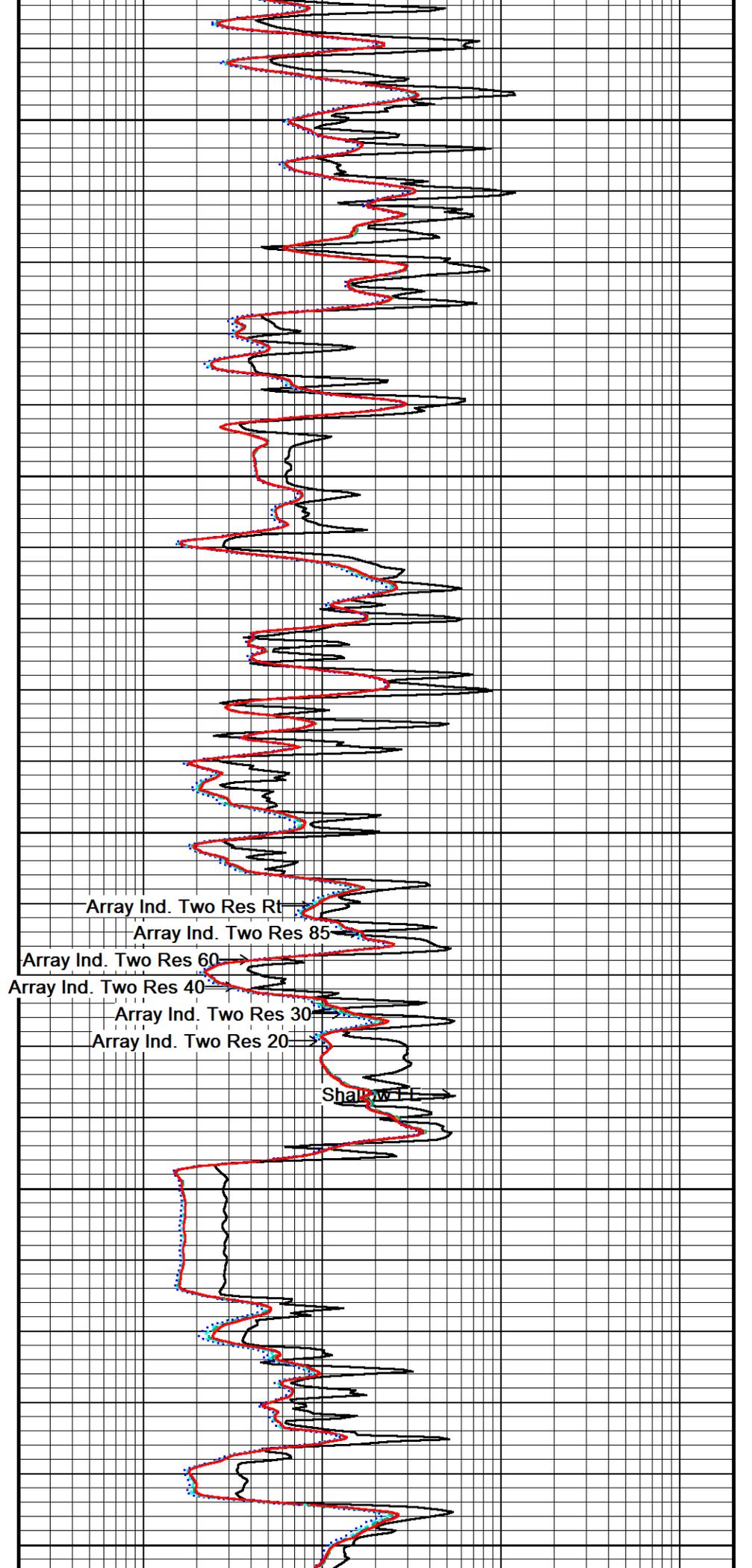
120°

5550

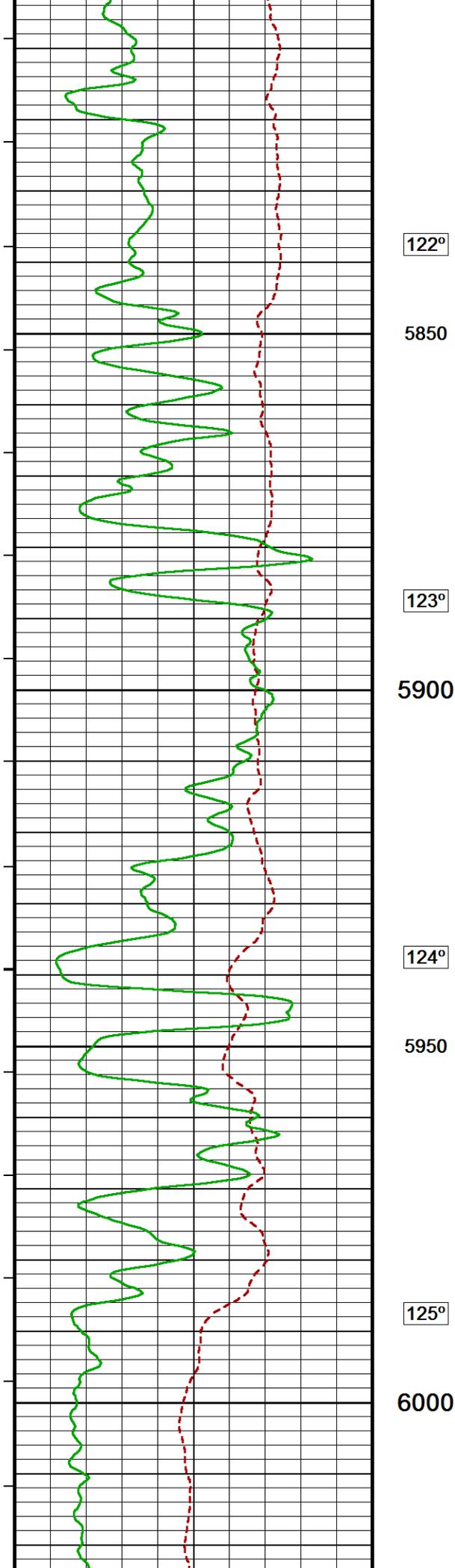




120°
5600
121°
5650
121°
5700
121°
5750
122°
5800



Array Ind. Two Res Rt
Array Ind. Two Res 85
Array Ind. Two Res 60
Array Ind. Two Res 40
Array Ind. Two Res 30
Array Ind. Two Res 20
Shallow TI



122°

5850

123°

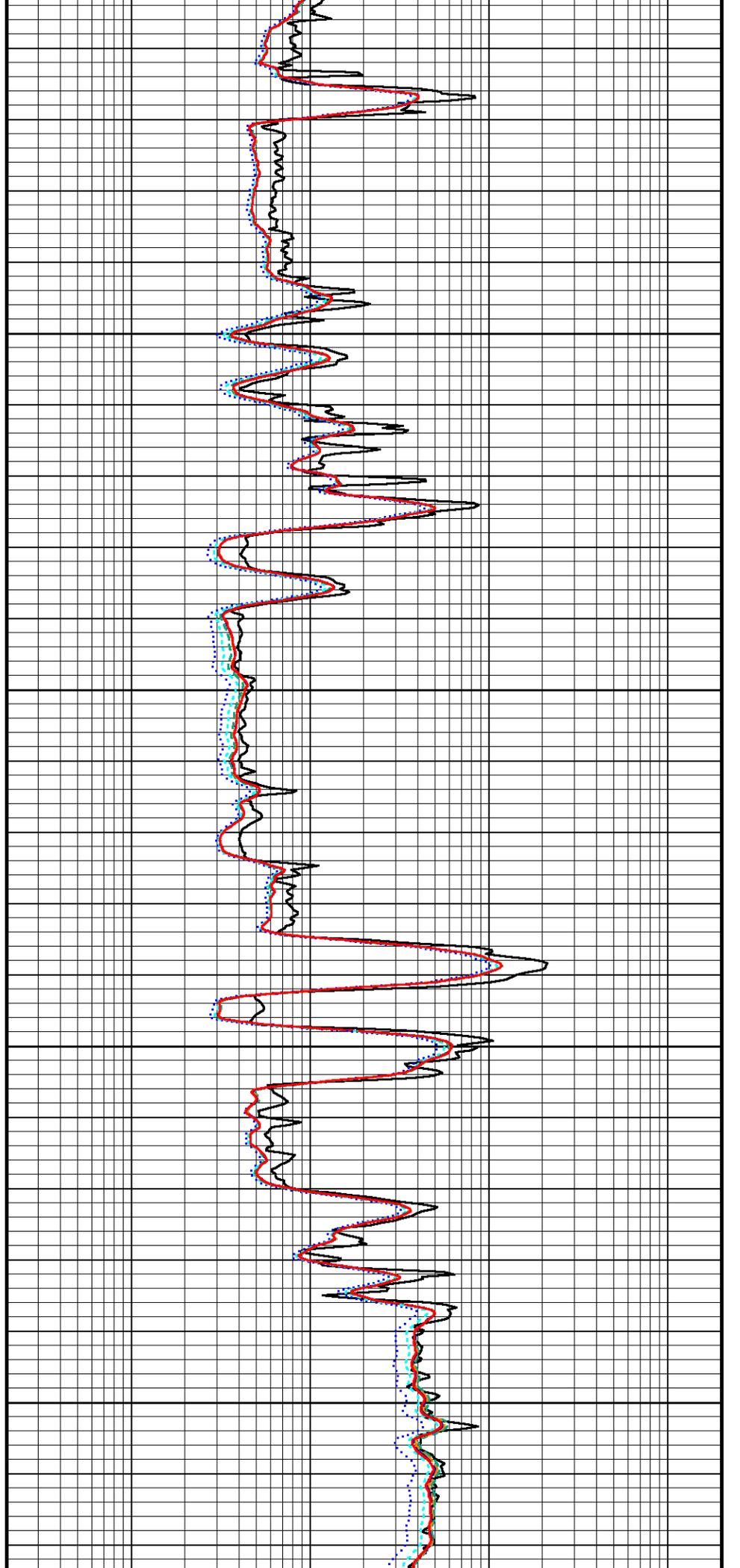
5900

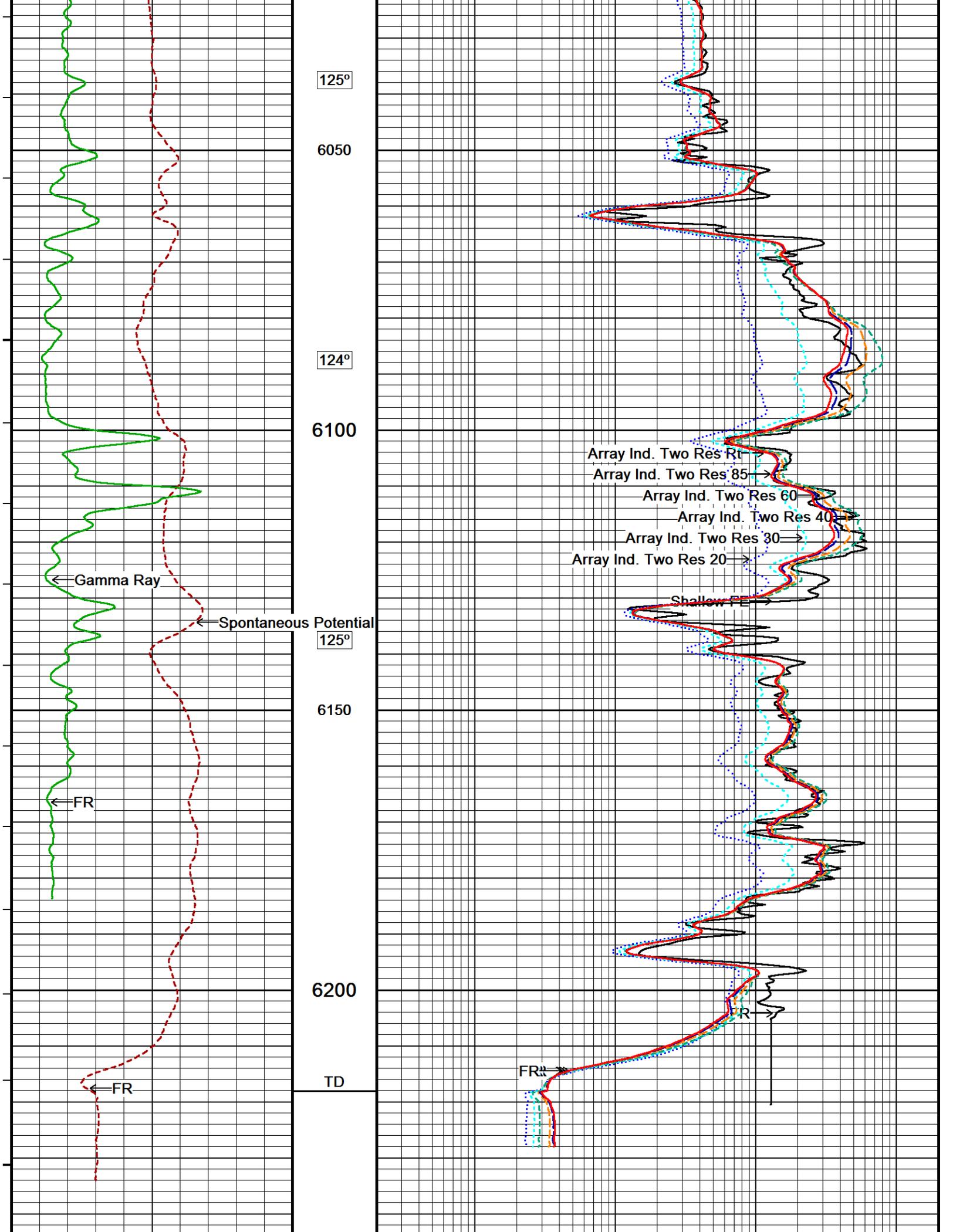
124°

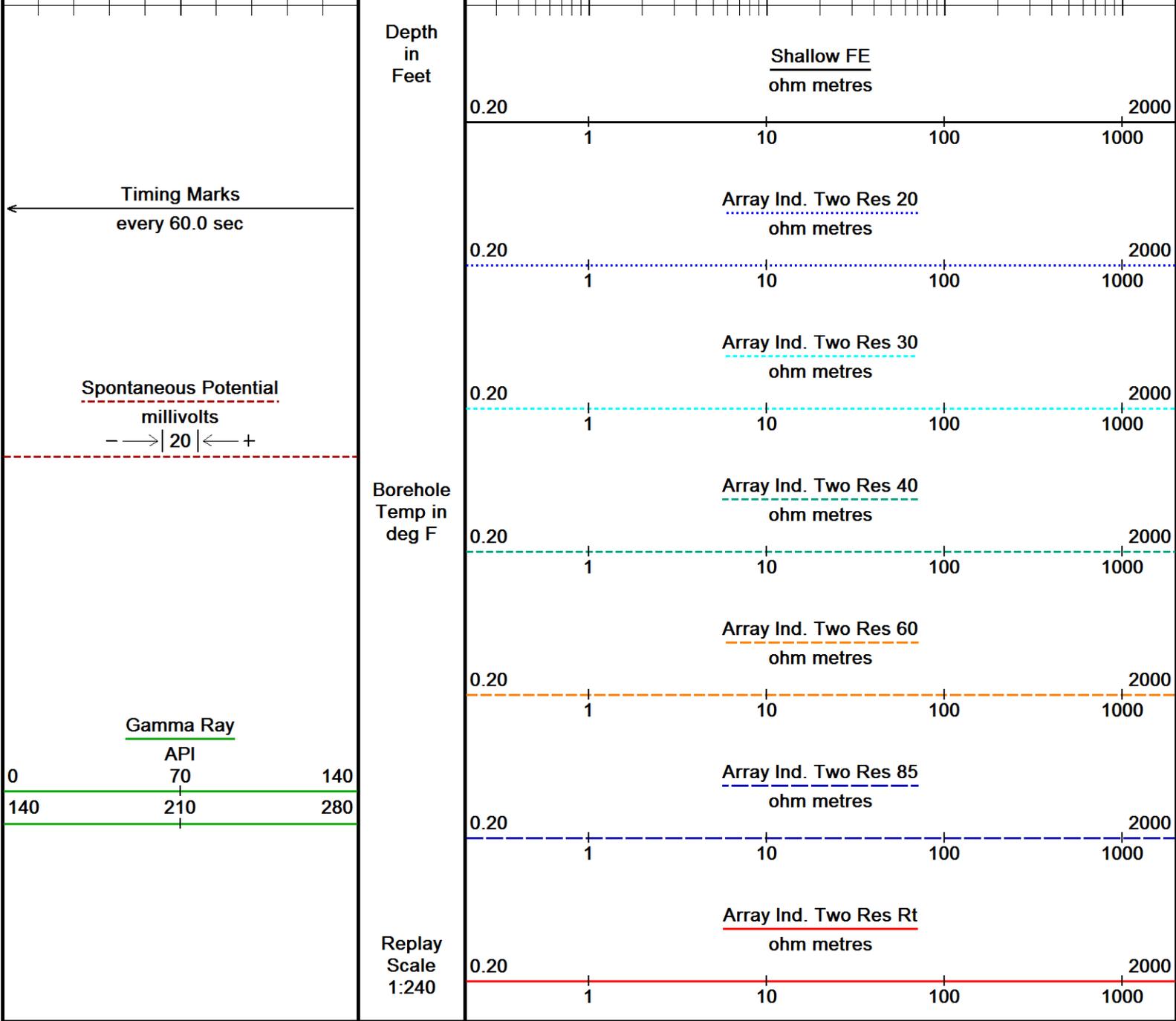
5950

125°

6000







Depth Based Data - Maximum Sampling Increment 10.0cm
 Plotted on 16-SEP-2022 13:58
 Filename: C:_LOGS\O'Brien Energy Resources Corp\Preedy East #4-3\REPEAT.dta
 Recorded on 16-SEP-2022 09:51
 System Versions: Logged with 20.11.3980 Processed with 20.11.3980 Plotted with 20.11.3980

↑ 5 INCH REPEAT PASS ↑

BEFORE SURVEY CALIBRATION
 C:_LOGS\O'Brien Energy Resources Corp\Preedy East #4-3\MAIN.dta

General Constants All 000 Last Edited on 16-SEP-2022,09:10

General Parameters
 Mud Resistivity 1.120 ohm-metres
 Mud Resistivity Temperature 96.000 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 4.500 inches
 Caliper for Differential Caliper Density Caliper

Rwa Parameters	
Porosity used	Limestone Density Por.
Resistivity used	Array Ind. One Res Rt
RWA Constant A	1.000
RWA Constant M	2.000
SW/APOR Tool Source	0.000

Down-hole Tension Calibration SMS 0

Field Calibration on 25-MAY-2022,08:53

Reading No	Measured	Calibrated (lbs)
1	16384.00	0.00
2	17443.00	723.00

High Resolution Temperature Constants MCG-E.A 552

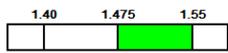
Pre-filter Length 11

Gamma Calibration MCG-E.A 552

Field Calibration on 27-APR-2022 12:29

	Measured	Calibrated (API)
Background	36	23
Calibrator (Gross)	862	556
Calibrator (Net)	826	533

Gamma Calibration Tolerances MCG-E.A 552

Ratio 1.549  Counts/API

Gamma Constants MCG-E.A 552

Last Edited on 16-SEP-2022,08:55

Gamma Calibrator Number	533	
GRC-M Calibrator Jig in Use?	NO	
Inactive Background Jig in Use?	NO	
Mud Density	1.11	gm/cc
Caliper Source for Processing	Density Caliper	
Tool Position	Eccentred	
Potassium Equivalence	Chloride	
K Mud Concentration	0.00	%

SP Calibration MCG-E.A 552

Field Calibration on 13-MAY-2022,10:59

	Measured	Calibrated (mV)
Reference 1	1500.0	1500.0
Reference 2	-1500.0	-1500.0

Micro-Resistivity Caliper Constants MMR-B.J 193

Sonde Configuration Resistivity Mode

Caliper Calibration MMR-B.J 193

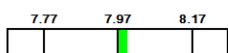
Base Calibration on 01-AUG-2022 09:51

Field Calibration on 01-AUG-2022 09:52

Base Calibration		
Reading No	Measured	Calibrator Size (in)
1	14209	5.96
2	17515	7.97
3	20786	9.86
4	24793	11.88
5	0	0.00
6	N/A	N/A

Field Calibration	Measured Caliper (in)	Actual Caliper (in)
	8.00	7.97

Caliper Calibration Tolerances MMR-B.J 193

Short Arm Field Cal. 8.00  in

Micro Normal and Micro Inverse Calibration MMR-B.J 193

Base Calibration on 01-AUG-2022 09:44

Field Check on 01-AUG-2022 09:45

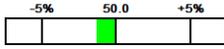
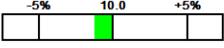
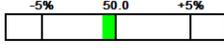
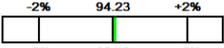
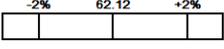
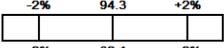
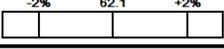
	Resistor 1 (ohm)	Resistor 2 (ohm)
	10.0	50.0

Base Calibration

	Measured	Calibrated (ohm-m)
Micro Normal	9.9	49.3
Micro Inverse	9.9	49.5

Channel	Base Check (ohm-m)	Field Check (ohm-m)
Micro Normal	94.3	94.3
Micro Inverse	62.1	62.1

Micro Normal & Micro Inverse Calibration Tolerance MMR-B.J 193

Micro Normal Res. 1	9.9		ohm	Micro Normal Res. 2	49.3		ohm
Micro Inverse Res. 1	9.9		ohm	Micro Inverse Res. 2	49.5		ohm
Micro Normal Base Check	94.3		ohm-m				
Micro Inverse Base Check	62.1		ohm-m				
Micro Normal Field Check	94.3		ohm-m				
Micro Inverse Field Check	62.1		ohm-m				

Micro Normal and Micro Inverse Constants MMR-B.J 193

Last Edited on 24-FEB-2020,17:55

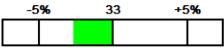
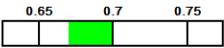
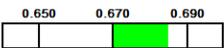
Pad Type	8-12 in Soft Rubber Inflatable 006-9011-159		
Micro Normal K Factor	0.5110		
Micro Inverse K Factor	0.3380		
Standoff Offset	0.0000	inches	

Neutron Calibration MDN-C.A 399

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

	Measured		Calibrated (cps)	
	Near	Far	Near	Far
Base Calibration	3211	100	3714	110
Ratio	32.104		33.764	
Field Calibrator at Base			Calibrated (cps)	
			1897	2833
Ratio			0.670	
Field Check			Calibrated (cps)	
			1941	2836
Ratio			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 29-JUL-2022,09:38

Neutron Source Id	N-1054		
Neutron Jig Number	NJ5239		
Air Hole Processing	Modified Ratio		
Caliper Source for Processing	Bit Size		
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		

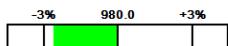
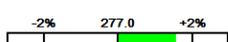
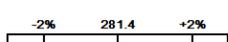
Formation Fluid Salinity N/A kppm
 Barite Mud Correction Not Applied

FE Calibration MFE-B.J 359

Base Calibration on 05-AUG-2022 09:22
 Field Check on 05-AUG-2022 09:26

	Resistor 1 (ohm)	Resistor 2 (ohm)
Base Calibration	0.0	1000.0
Reference 1	0.0	0.0
Reference 2	954.2	126.8
Base Check		281.4
Field Check		281.3

FE Calibration Tolerances MFE-B.J 359

Reference 2	954.2		ohm
Base Check	281.4		ohm-m
Field Check	281.3		ohm-m

FE Constants MFE-B.J 359

Last Edited on 05-AUG-2022,09:21

Running Mode	No Sleeve	
MFE K Factor	0.1268	
Borehole Correction Constants		
Sonde Position	0.5	inches
Hole Size Source	Bit Size	
Hole Size Constant Value	N/A	
Rm Source	Global Value: Temperature Corrected	
Temp. for Rm Corr.	MCG External Temperature	

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

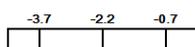
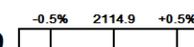
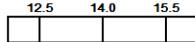
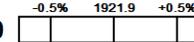
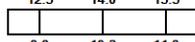
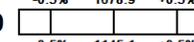
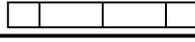
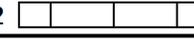
High Conductivity Reference Resistor	3.3	ohm
Low Conductivity Reference Resistor	333.3	ohm

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)		Array Temperature
	Low	High	Low	High	
1 (near)	-2.2	2114.9	-2.2	2114.9	89.0
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		

Induction Check Tolerances MAI-C.A 490

Low Array 1	-2.2		mmho/m	High Array 1	2114.9		mmho/m
Low Array 2	13.9		mmho/m	High Array 2	1922.0		mmho/m
Low Array 3	14.0		mmho/m	High Array 3	1679.0		mmho/m
Low Array 4	10.3		mmho/m	High Array 4	1145.2		mmho/m

Induction Constants MAI-C.A 490

Last Edited on 16-SEP-2022,08:57

Induction Model	RtAP		
Borehole Correction Constants			
Tool Centred	No		
Hole Size Source	Density Caliper		
Hole Size Constant Value	N/A	inches	
Stand-off Type	Fins		
Stand-off	0.50	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 28-JUL-2022 11:15
			Field Calibration on 28-JUL-2022 11:16
Base Calibration			
Reading No	Measured	Calibrator Size (in)	
1	17084	4.01	
2	25710	5.96	
3	34480	7.97	
4	42747	9.86	
5	51875	11.88	
6	N/A	N/A	

Field Calibration		
	Measured Caliper (in)	Actual Caliper (in)

DOWNHOLE EQUIPMENT

C:_LOGS\O'Brien Energy Resources Corp\Preedy East #4-3MAIN.dta

Cablehead, 11 pin
CBH-CA 229 LG: 2.40 ft WT: 24.3 lb OD: 2.244 in

11C-11B Compact Tool Adaptor
MTA-K.B 341 LG: 1.53 ft WT: 13.2 lb OD: 2.240 in

Compact Swivel Head Adaptor
SHA-J.B 635 LG: 2.30 ft WT: 22.0 lb OD: 2.240 in

Compact Comms Gamma
MCG-E.A 552 LG: 8.70 ft WT: 63.9 lb OD: 2.244 in

Compact Micro-Resistivity
MMR-B.J 193 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

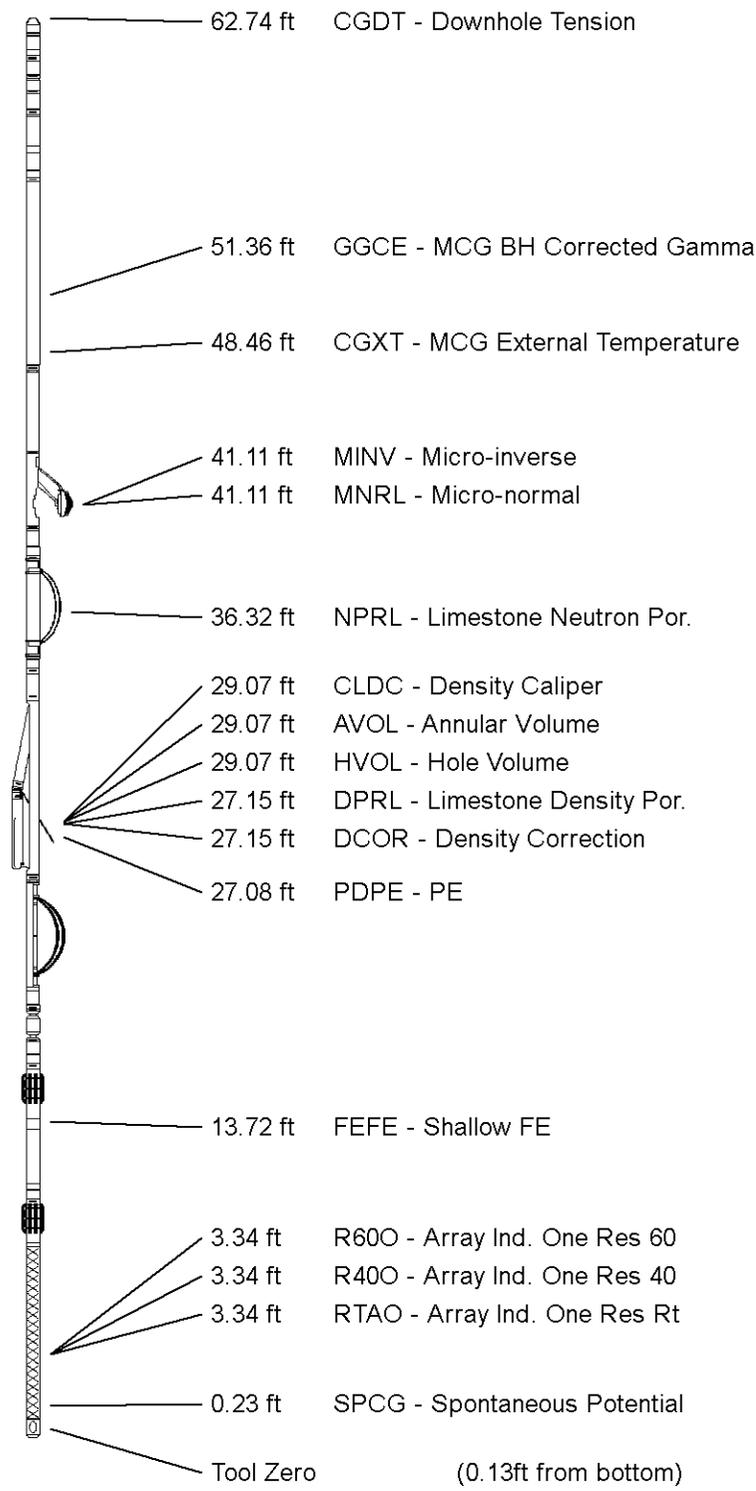
Compact Inline Bowspring sub
MIS-D.B 676 LG: 5.70 ft WT: 33.1 lb OD: 2.244 in

Compact Knuckle Joint
SKJ-E.B 617 LG: 2.17 ft WT: 24.3 lb OD: 2.244 in

Compact Focussed Electric
MFE-B.J 359 LG: 6.05 ft WT: 48.5 lb OD: 2.244 in

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

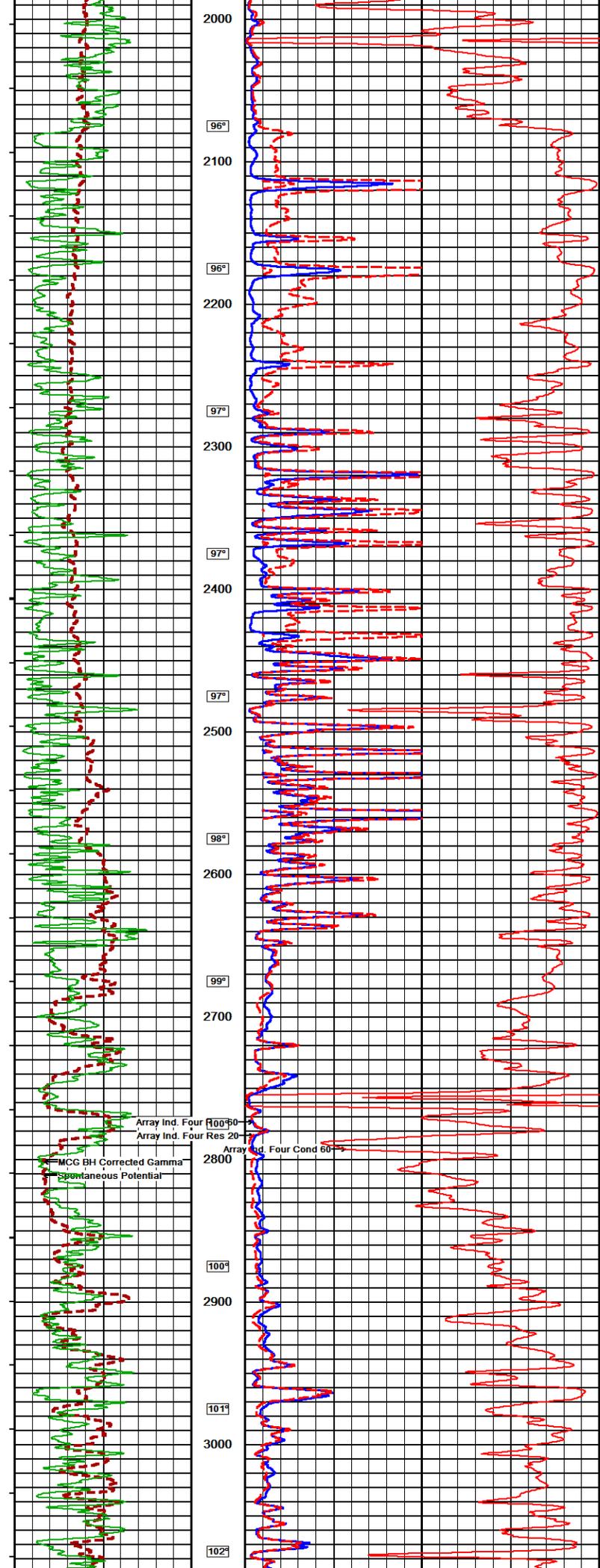
Total Length: 62.87 ft Weight: 500.4 lb

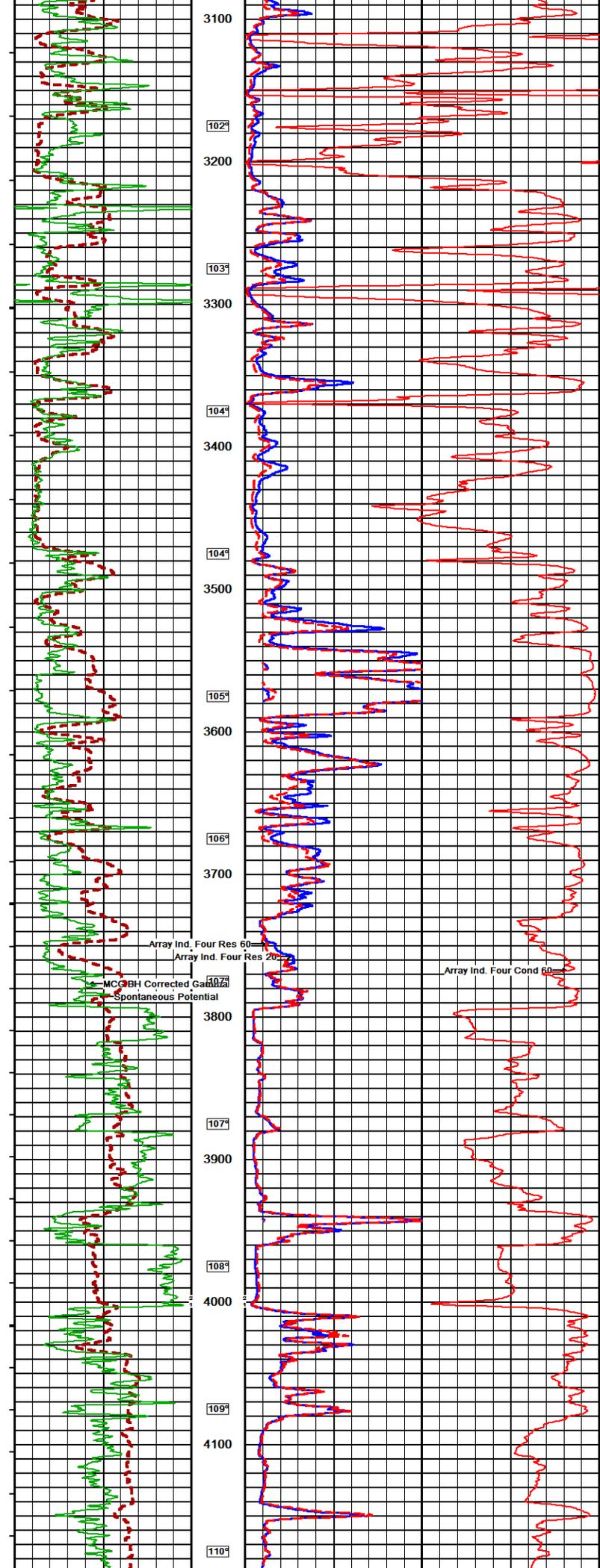


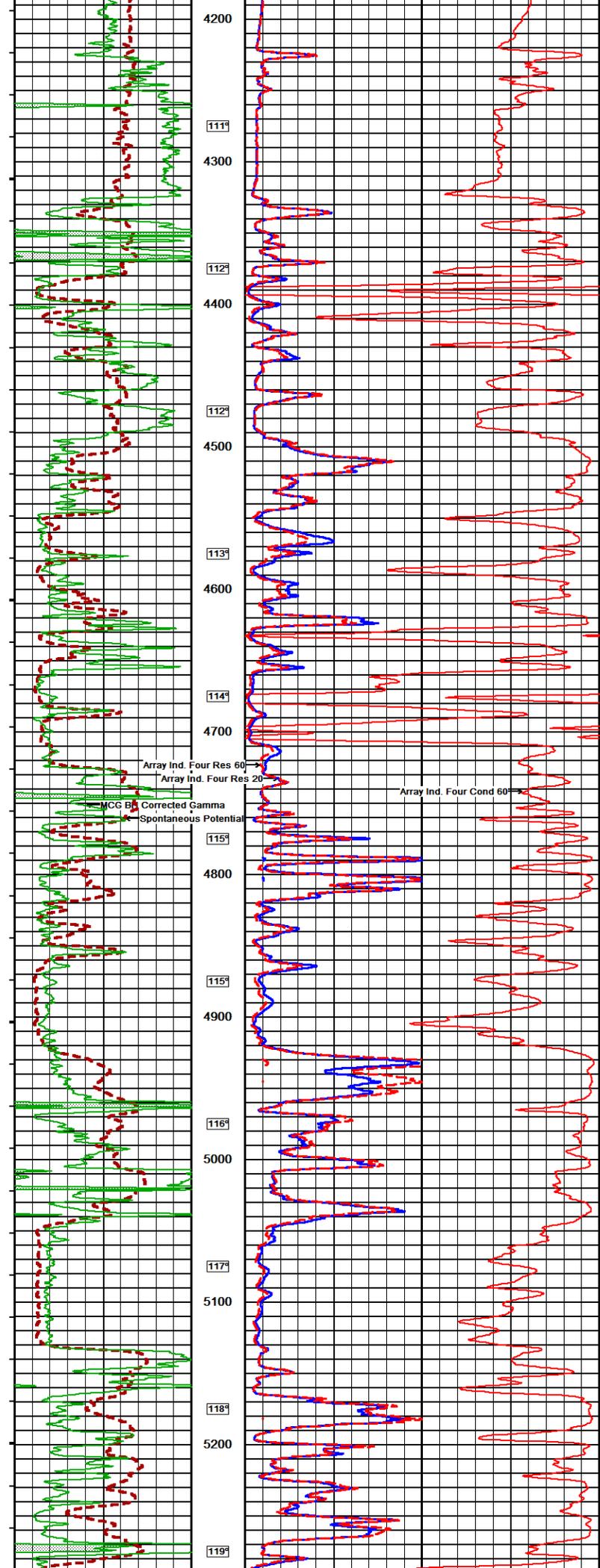
All measurements relative to tool zero.

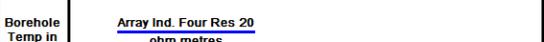
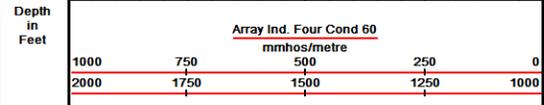
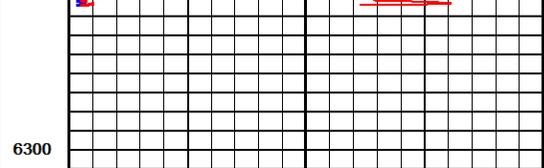
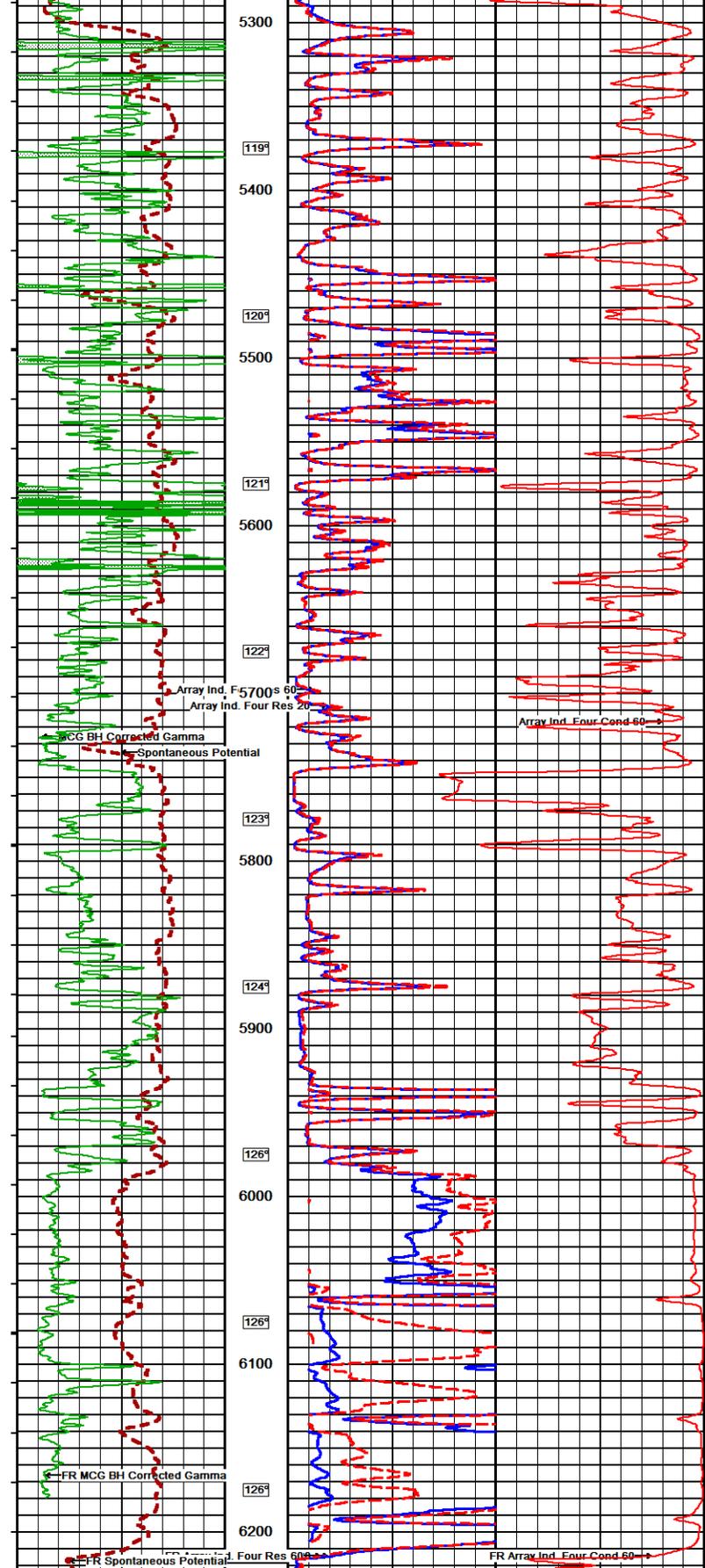
COMPANY	O' BRIEN ENERGY RESOURCES CORP.
WELL	PREEDY EAST #4-3
FIELD	BORCHERS NW
PROVINCE/COUNTY	MEADE
COUNTRY/STATE	U.S.A. / KANSAS

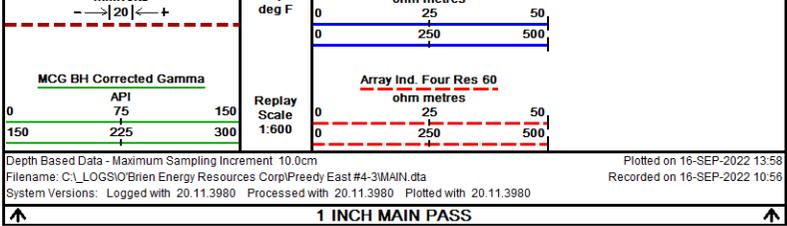
Elevation Kelly Bushing	2622.00	feet	First Reading	6218.00	feet
Elevation Drill Floor	2621.00	feet	Depth Driller	6225.00	feet
Elevation Ground Level	2610.00	feet	Depth Logger	6218.00	feet











1 INCH MAIN PASS

COMPANY	O' BRIEN ENERGY RESOURCES CORP.				
WELL	PREEDY EAST #4-3				
FIELD	BORCHERS NW				
PROVINCE/COUNTY	MEADE				
COUNTRY/STATE	U.S.A. / KANSAS				
Elevation Kelly Bushing	2622.00	feet	First Reading	6218.00	feet
Elevation Drill Floor	2621.00	feet	Depth Driller	6225.00	feet
Elevation Ground Level	2610.00	feet	Depth Logger	6218.00	feet

WIRELINE LOGGING SOLUTIONS ARRAY INDUCTION
 GAMMA RAY