

HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY (5 INCH)

COMPANY		MERIT ENERGY COMPANY, LLC	
WELL		CELONA No. 1-12	
FIELD/BLOCK		ST LOUIS	
COUNTY		FINNEY	
STATE		KS	
Permanent Datum		GL	Elev. 2830.0 ft
Log measured from		KB	Elev. 2841.0 ft
Drilling measured from		KB	Elev. 2830.0 ft
Date	26-Sep-22		
Run No.	ONE		
Depth - Driller	5173.0 ft		
Depth - Logger	5167.0 ft		
Bottom - Logged Interval	5154.0 ft		
Top - Logged Interval	1798.0 ft		
Casing - Driller	8.625 in	@	
Casing - Logger	1798.0 ft	@	
Bit Size	7.875 in	@	
Type Fluid in Hole	Water Based Mud		
Density	9.2 ppg	50.00	s/qt
PH	11.00 pH	5.6	optm
Source of Sample	MUDPIT		
Rm @ Meas. Temperature	1.11 ohmm	@	78.00 degF
Rmf @ Meas. Temperature	0.80 ohmm	@	78.00 degF
Rmc @ Meas. Temperature	1.28 ohmm	@	78.00 degF
Source Rmf	CALC		
Rm @ BHT	0.70 ohmm	@	128.0 degF
Time Since Circulation	05.34 hr		
Time on Bottom	26-Sep-22 20:07		
Max. Rec. Temperature	128.00 degF	@	5165.0 ft
Equipment	12128583		ALVARADO, T.
Recorded By	K. BIJERGA		
Witnessed By	K. ROBINSON		
COMPANY		MERIT ENERGY COMPANY, LLC	
WELL		CELONA No. 1-12	
FIELD/BLOCK		ST LOUIS	
COUNTY		FINNEY	
STATE		KS	
API No.	15055225510100	Other Services: GTET DSNT-SDLT BSAT ACRT	
Location	267' FWL & 458' FNL SW NW NW NW		
Sect.	12	Twp.	25S
Rge.			32W
Elev.	2830.0 ft		
Elev.	K.B.		2842.0 ft
D.F.			2841.0 ft
G.L.			2830.0 ft

Fold here

Sales Order Number: 908128151		API No.: 15055225510100		PGM Version: WL INSITE R6.6.7 (Build 8)	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE			RESISTIVITY SCALE CHANGES		
Date	Sample No.		Type Log	Depth	Scale Up Hole
Depth-Driller					Scale Down Hole
Type Fluid in Hole					
Density	Viscosity				
Ph	Fluid Loss				
Source of Sample			RESISTIVITY EQUIPMENT DATA		
Rm @ Meas. Temp	@	@	Run No.	Tool Type & No.	Pad Type
Rmf @ Meas. Temp.	@	@	ONE	ACRT	NONE
Rmc @ Meas. Temp.	@	@		S - 10933411	
Source Rmf	Rmc				
Rm @ BHT	@	@			
Rmf @ BHT	@	@			
Rmc @ BHT	@	@			
EQUIPMENT DATA					
GAMMA		ACOUSTIC		DENSITY	
Run No.	ONE	Run No.		Run No.	
Serial No.	11405267	Serial No.		Serial No.	
Model No.	GTET	Model No.		Model No.	
Diameter	3.625"	No. of Cent.		Diameter	
Detector Model No.	GTET	Spacing		Log Type	
Type	SCINT			Source Type	
Length	8"	LSA [Y/N]		Serial No.	
Distance to Source	10'	FWDA [Y/N]		Strength	
LOGGING DATA					

GENERAL			GAMMA		ACOUSTIC		DENSITY		NEUTRON		
Run No.	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix
	From	To	ft/min	L	R	L	R		L	R	
ONE	5167'	1798'	REC	0gapi	150gapi						
DIRECTIONAL INFORMATION											
Maximum Deviation						@	KOP			@	
Remarks: FIRST LOG ON WELL, POSITIVE DEPTH CONTROL APPLIED											
SCALES AND PRESENTATIONS AS PER CLIENT REQUEST											
TOOLS RAN IN COMBINATION AS PER TOOLSTRING DIAGRAM											
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING											
CREW: C. HERRERA, B. EZEKWU											
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES											
<p>HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.</p>											
HALLIBURTON											

HALLIBURTON Plot Time: 26-Sep-22 21:58:59
Plot Range: 1795 ft to 5170.75 ft
Data: 09_26_MERITWell Based\DAQ-MAIN
Plot File: \\-LOCAL-109_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\ACRT5\ACRT_5inch_main

5 INCH MAIN LOG

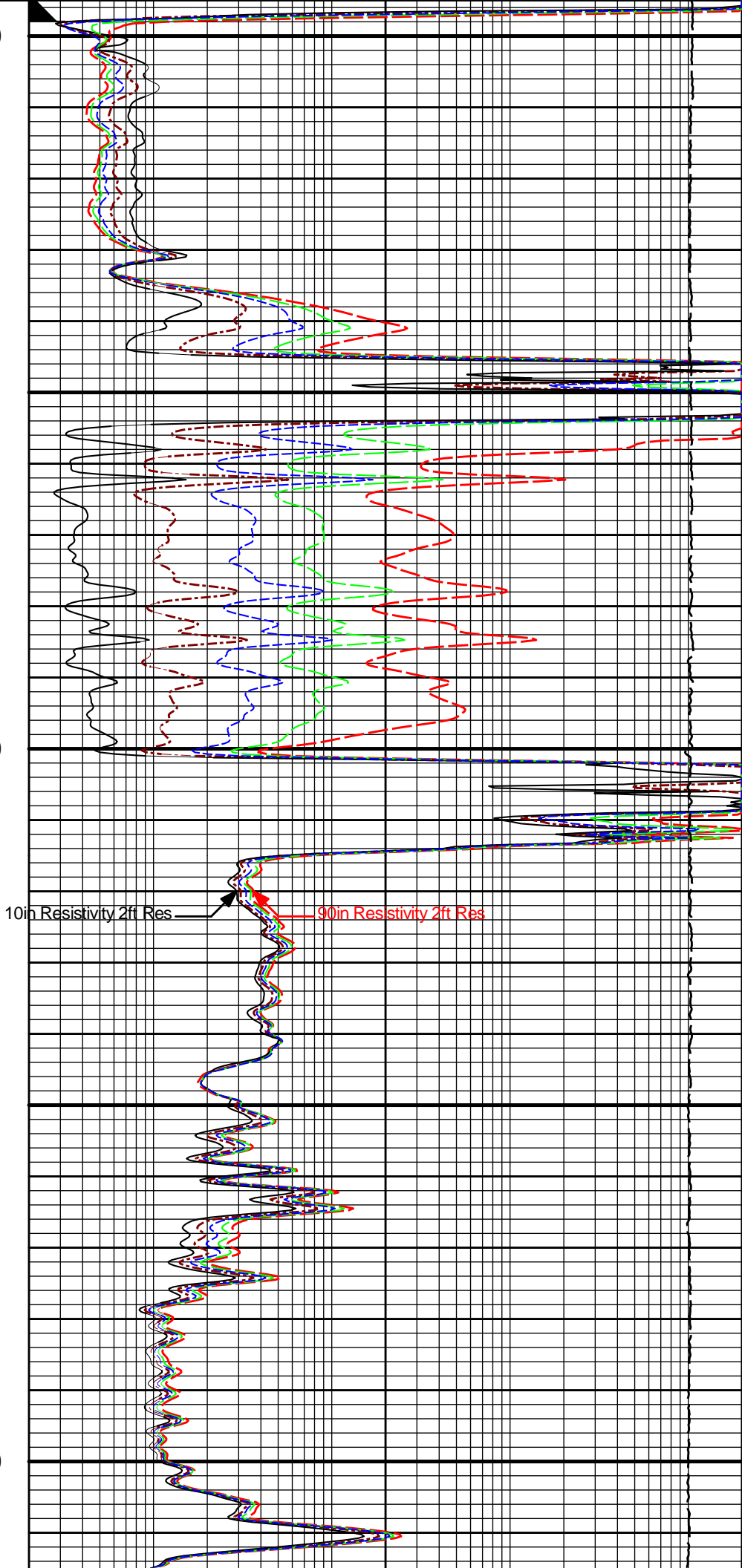
5 INCH MAIN LOG

	0.2	10in Resistivity 2ft Res	2K
		ohmm	
	0.2	20in Resistivity 2ft Res	2000
		ohmm	
	0.2	30in Resistivity 2ft Res	2000
		ohm-metre	
	0.2	60in Resistivity 2ft Res	2000
		ohmm	
SP	0.2	90in Resistivity 2ft Res	2K
-]20[+		ohmm	
0	Gamma API	150	15K
	api		Tension
			pounds
			0

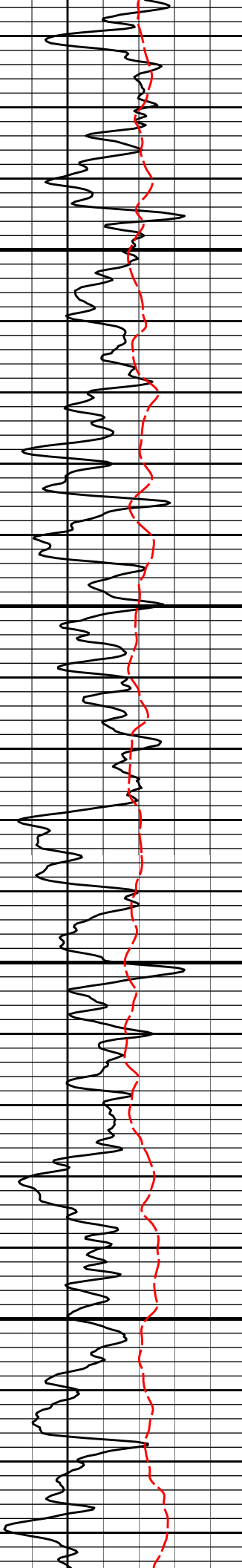
CSG
1800



1900



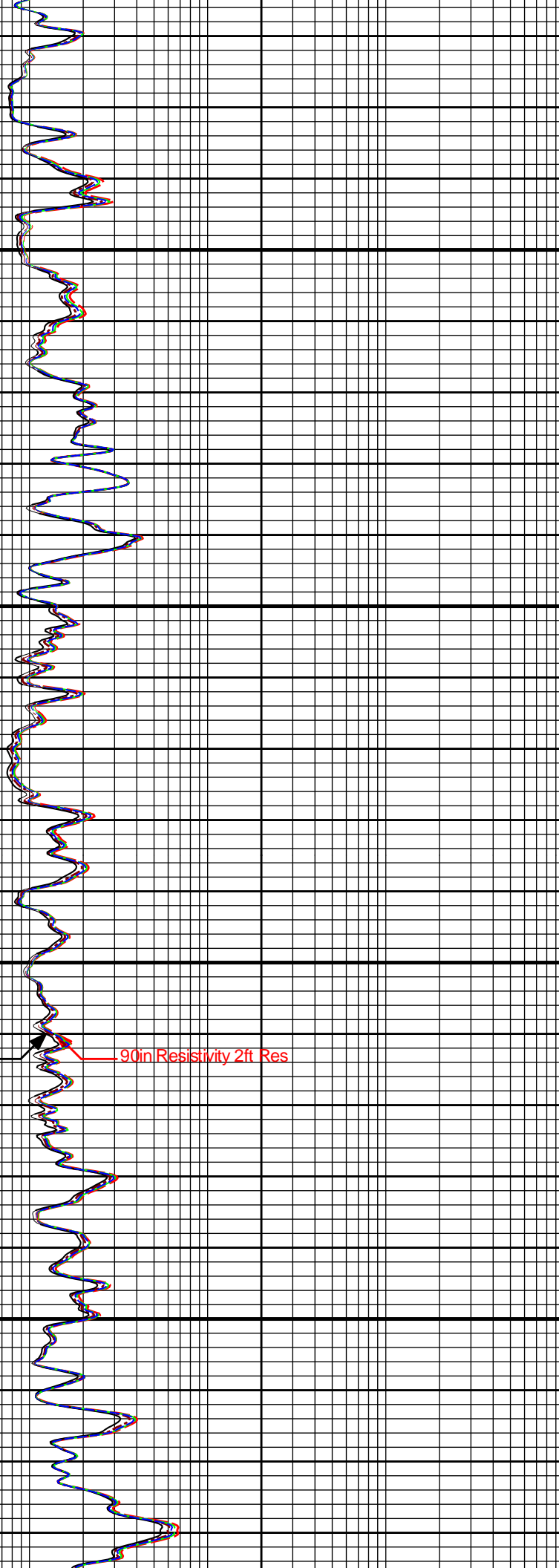
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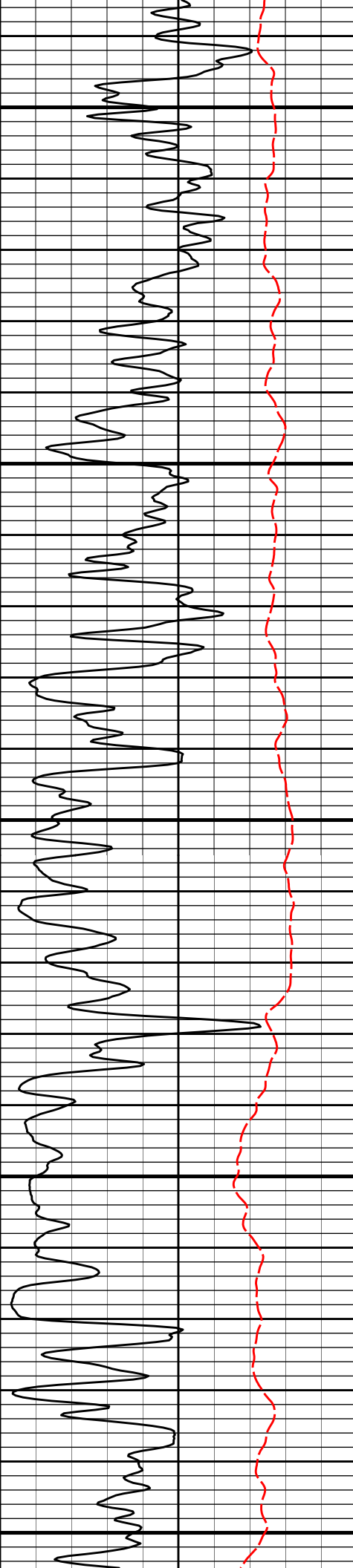
2100

10in Resistivity 2ft Res

2200

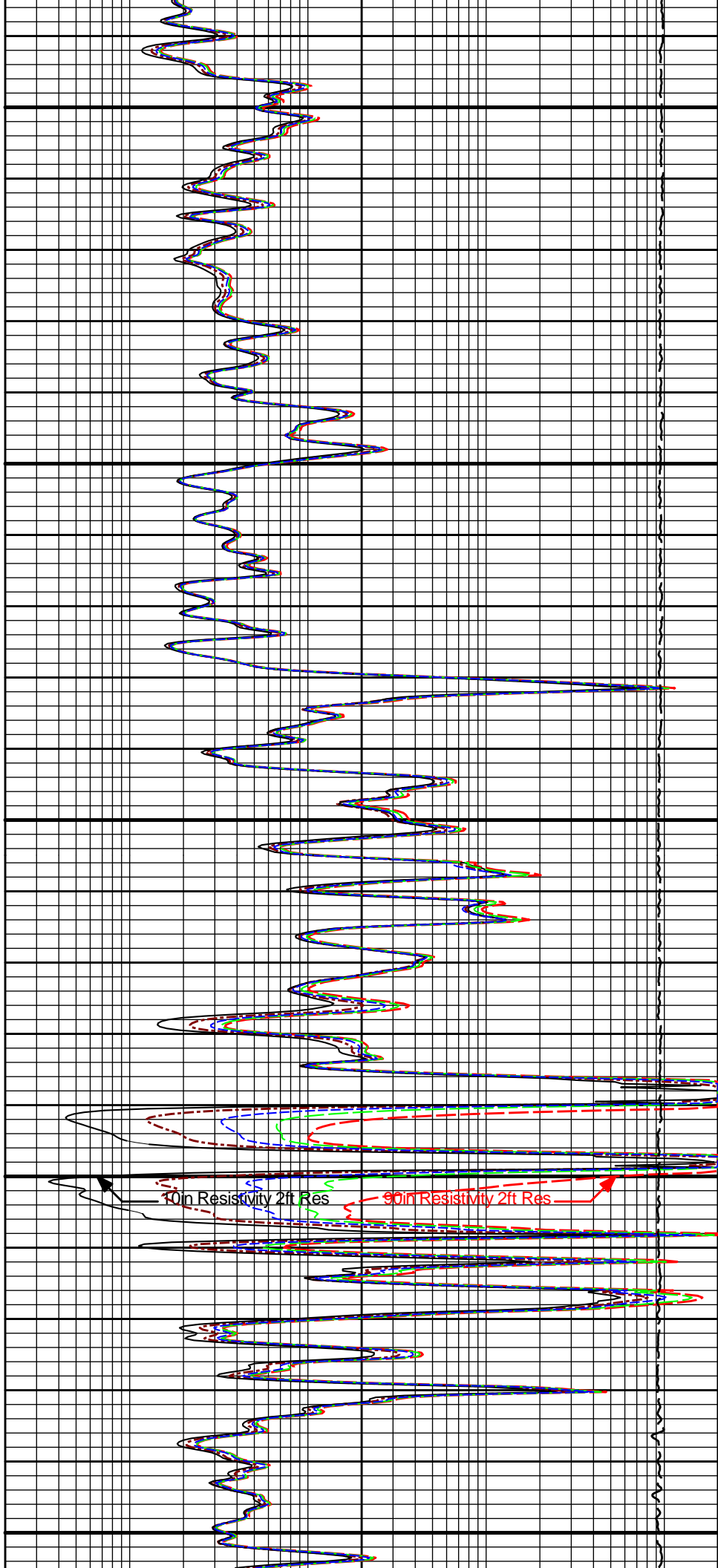


90in Resistivity 2ft Res



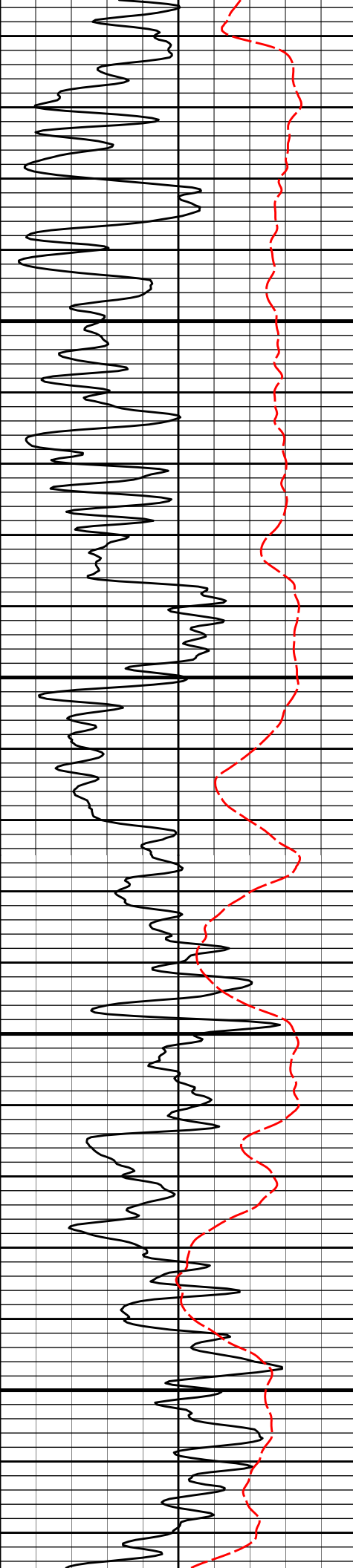
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2400



10in Resistivity 2ft Res

90in Resistivity 2ft Res

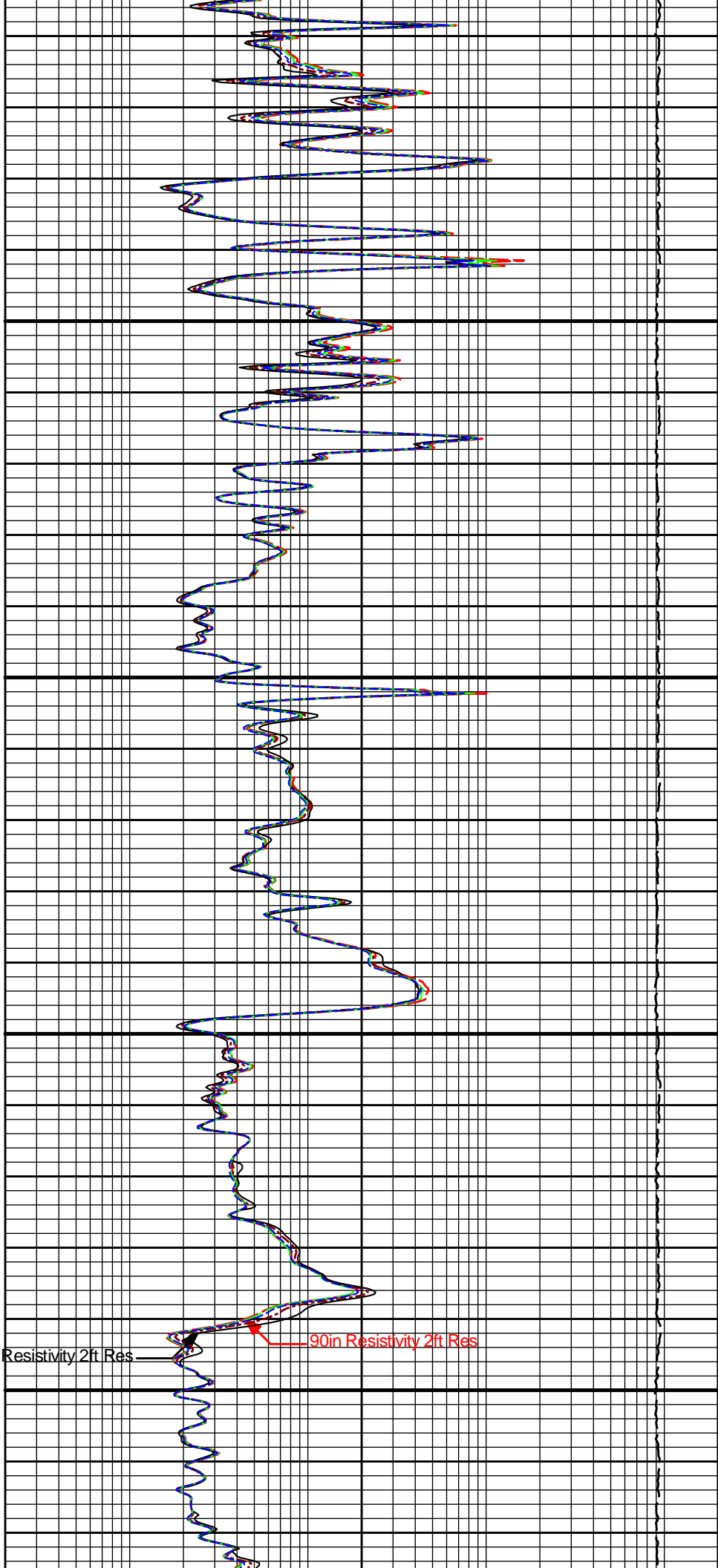


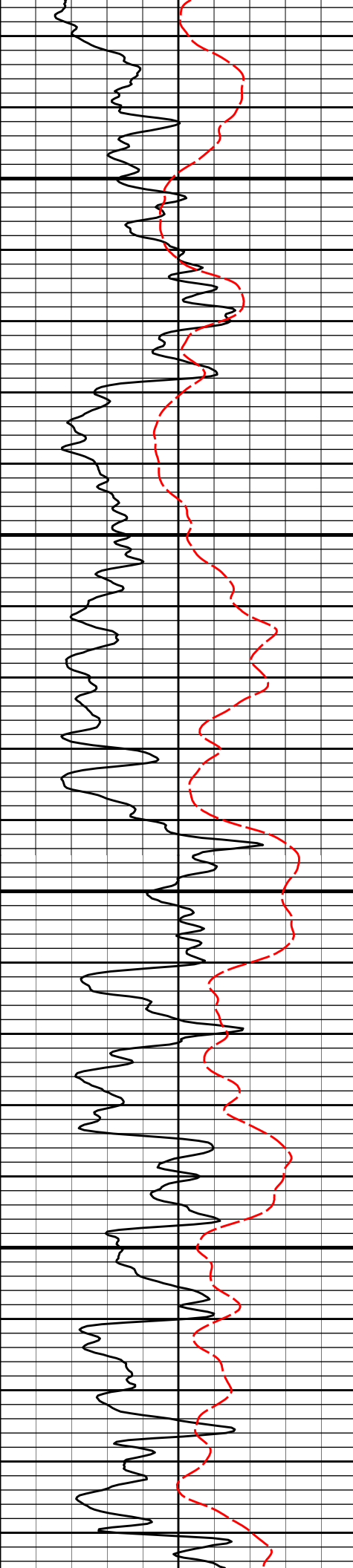
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2600

10in Resistivity 2ft Res

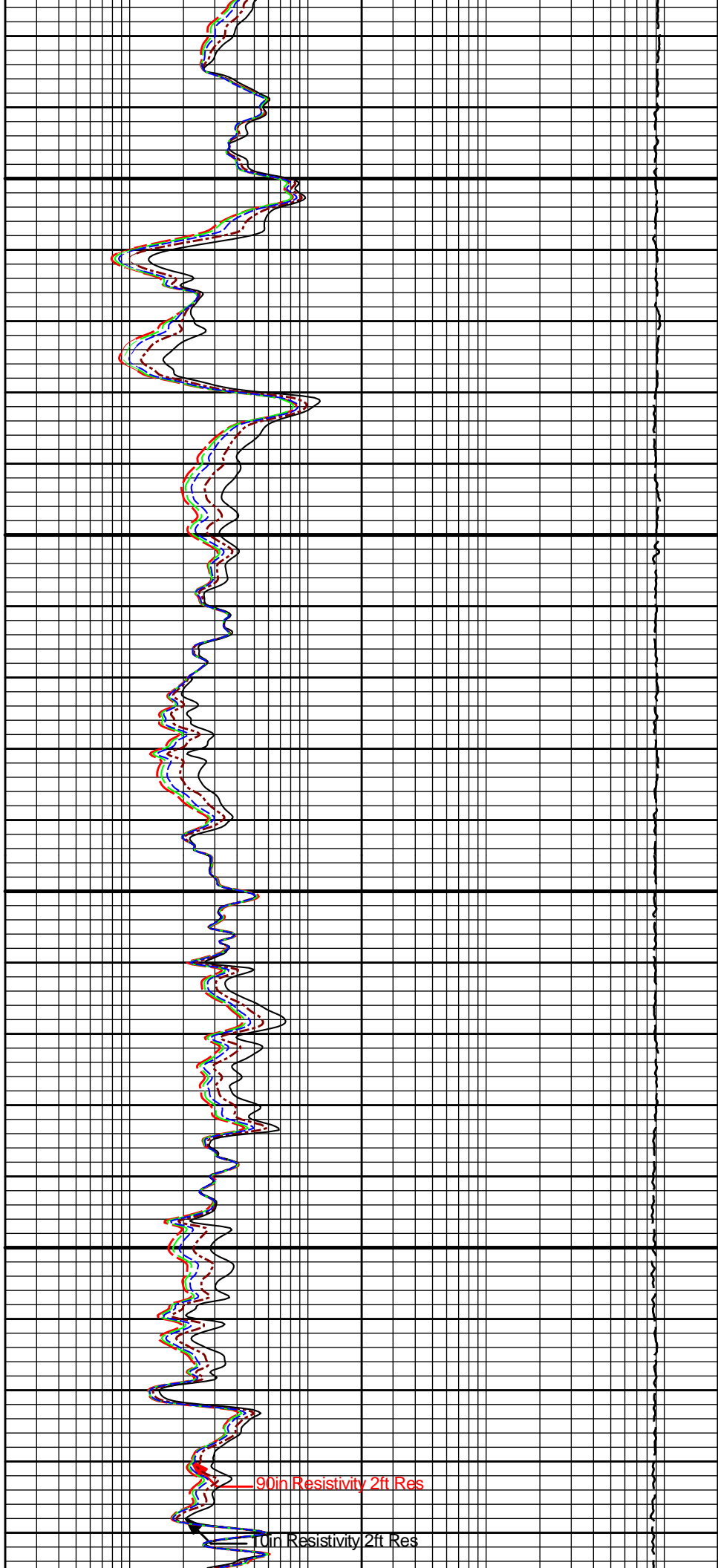
90in Resistivity 2ft Res





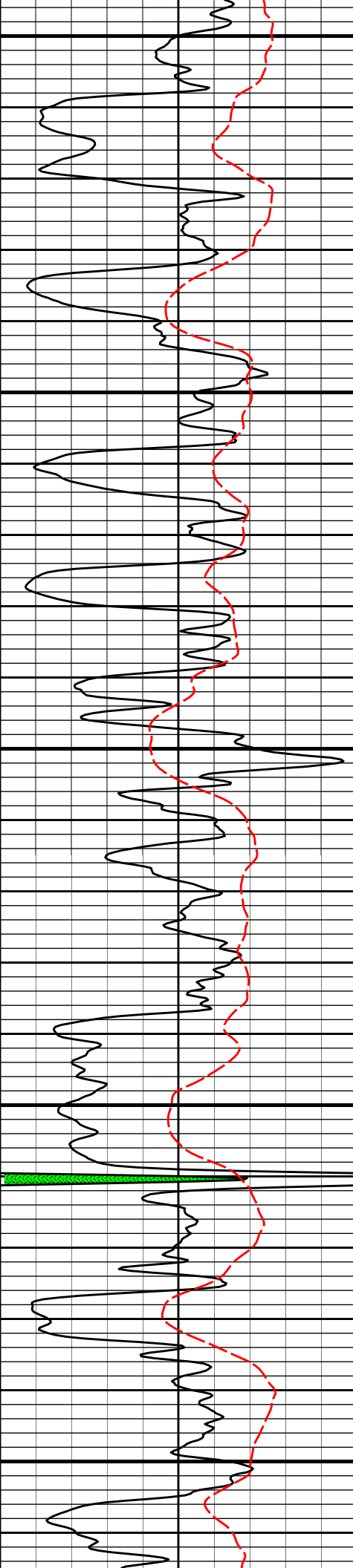
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2800



90in Resistivity 2ft Res

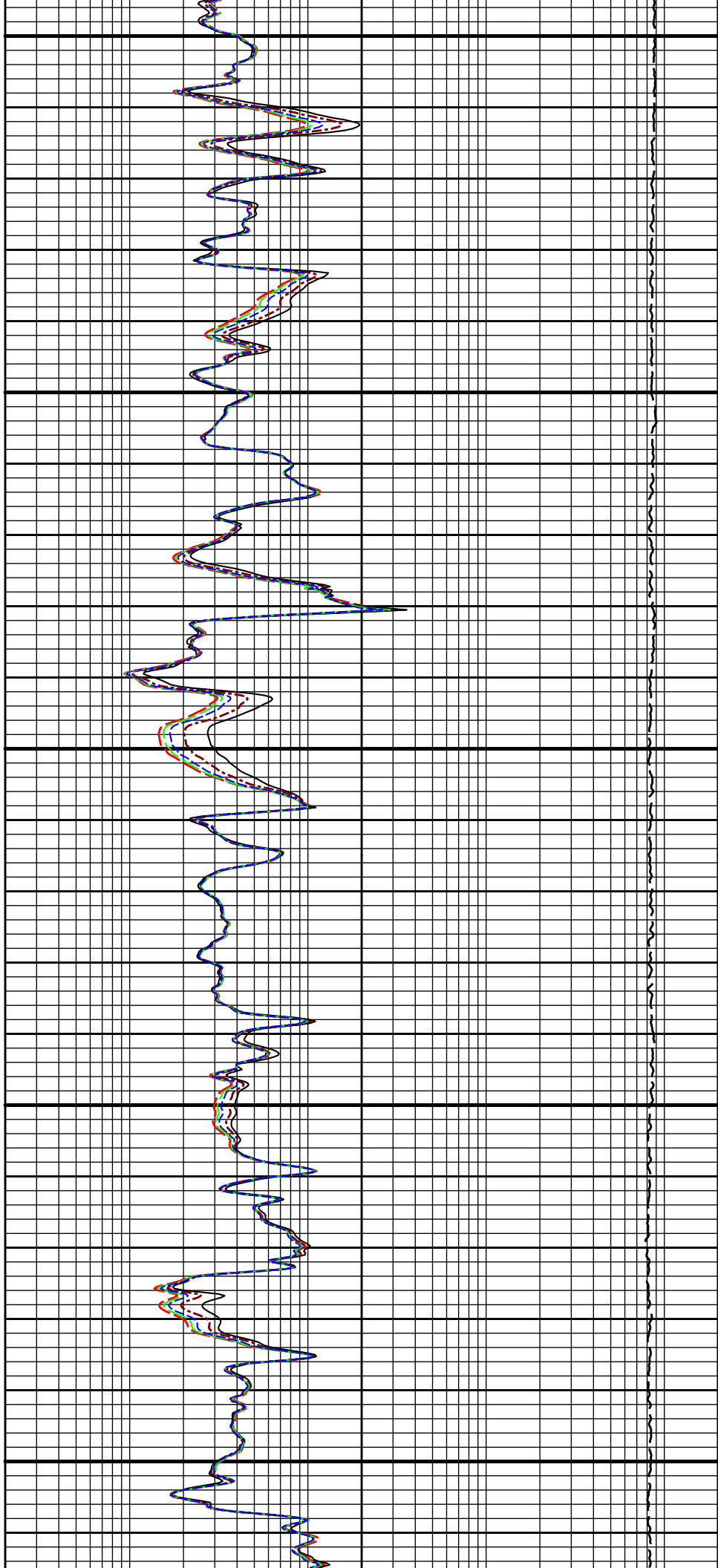
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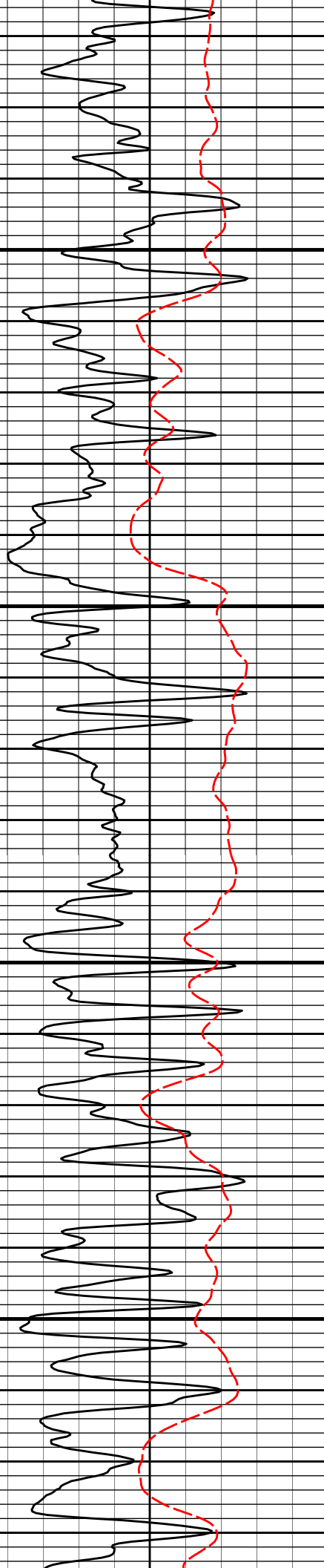


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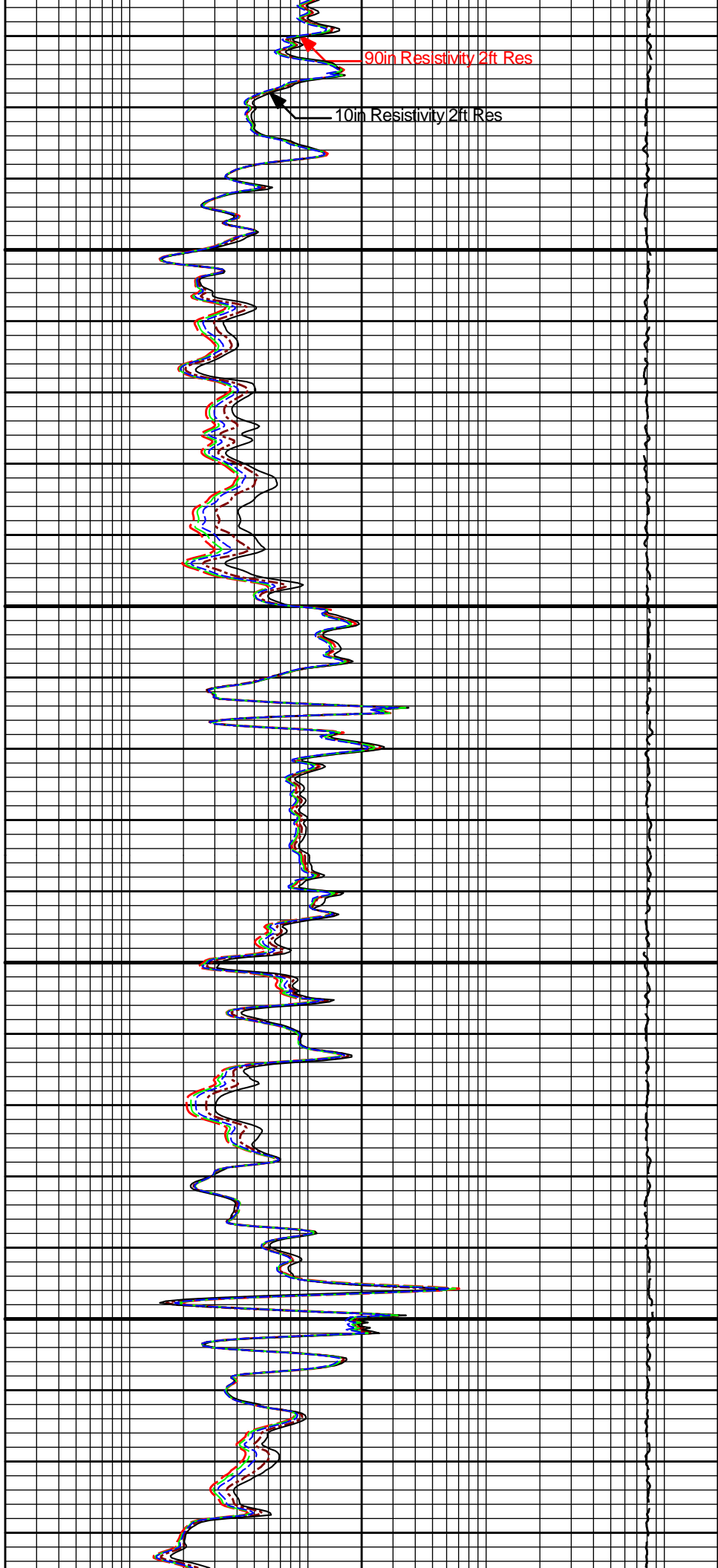
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3200

3300

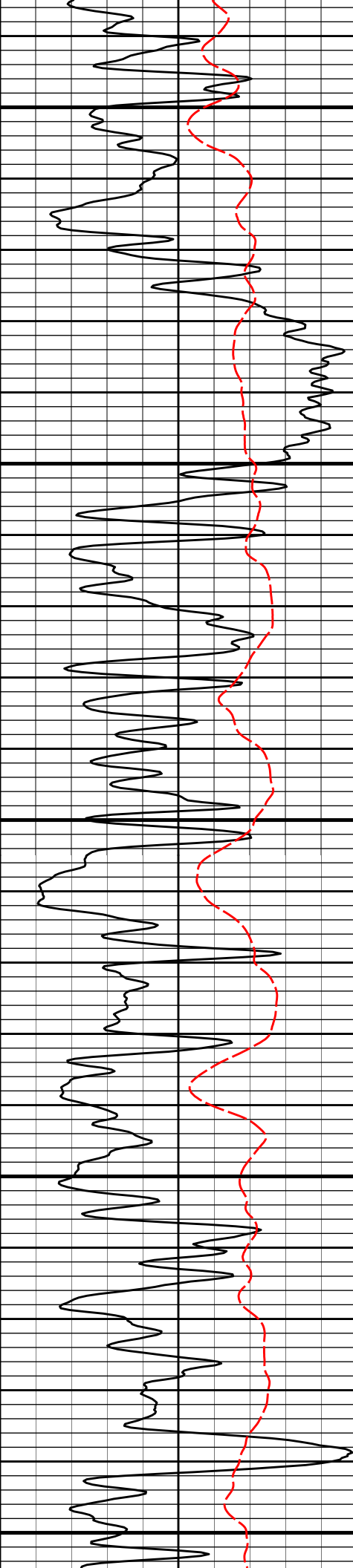


90in Resistivity 2ft Res

10in Resistivity 2ft Res

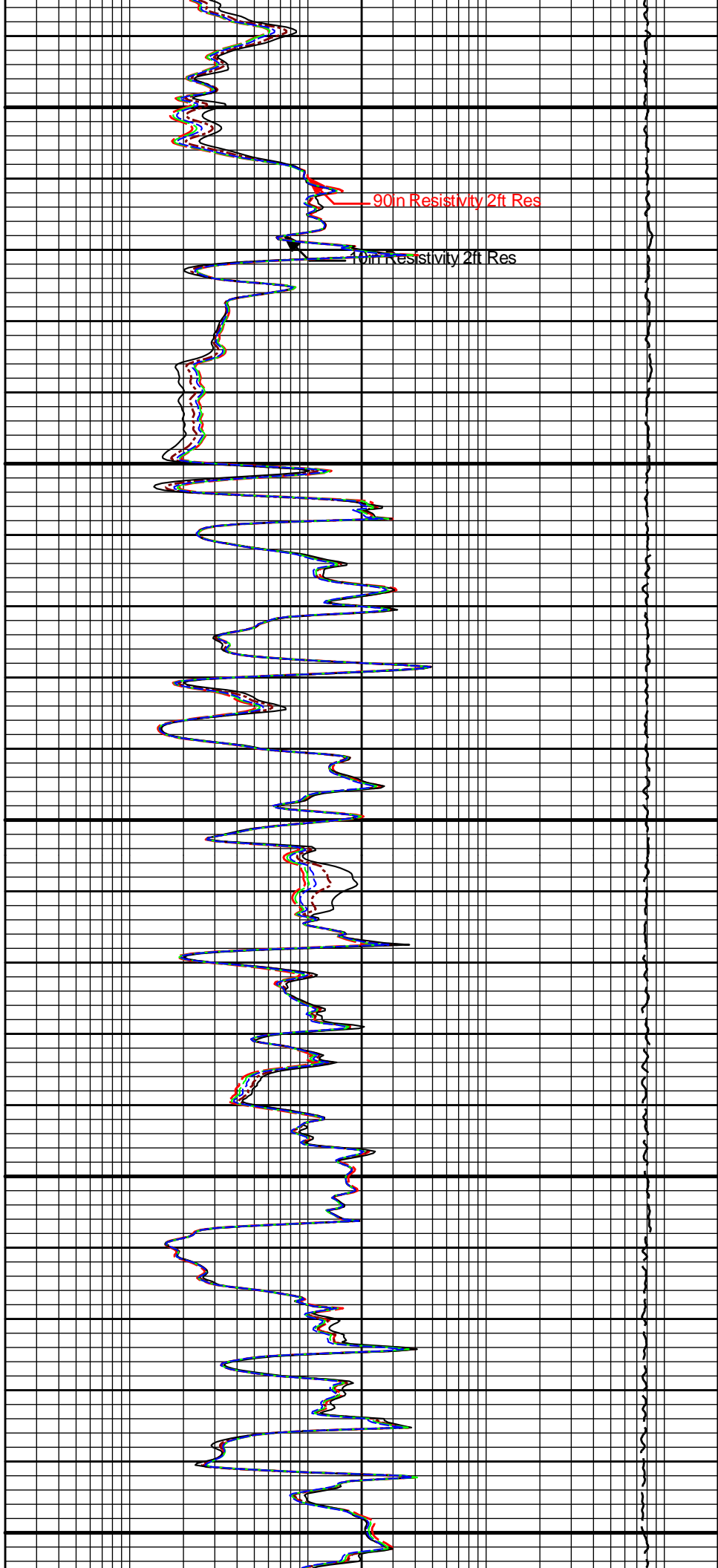
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3300



3400

3500



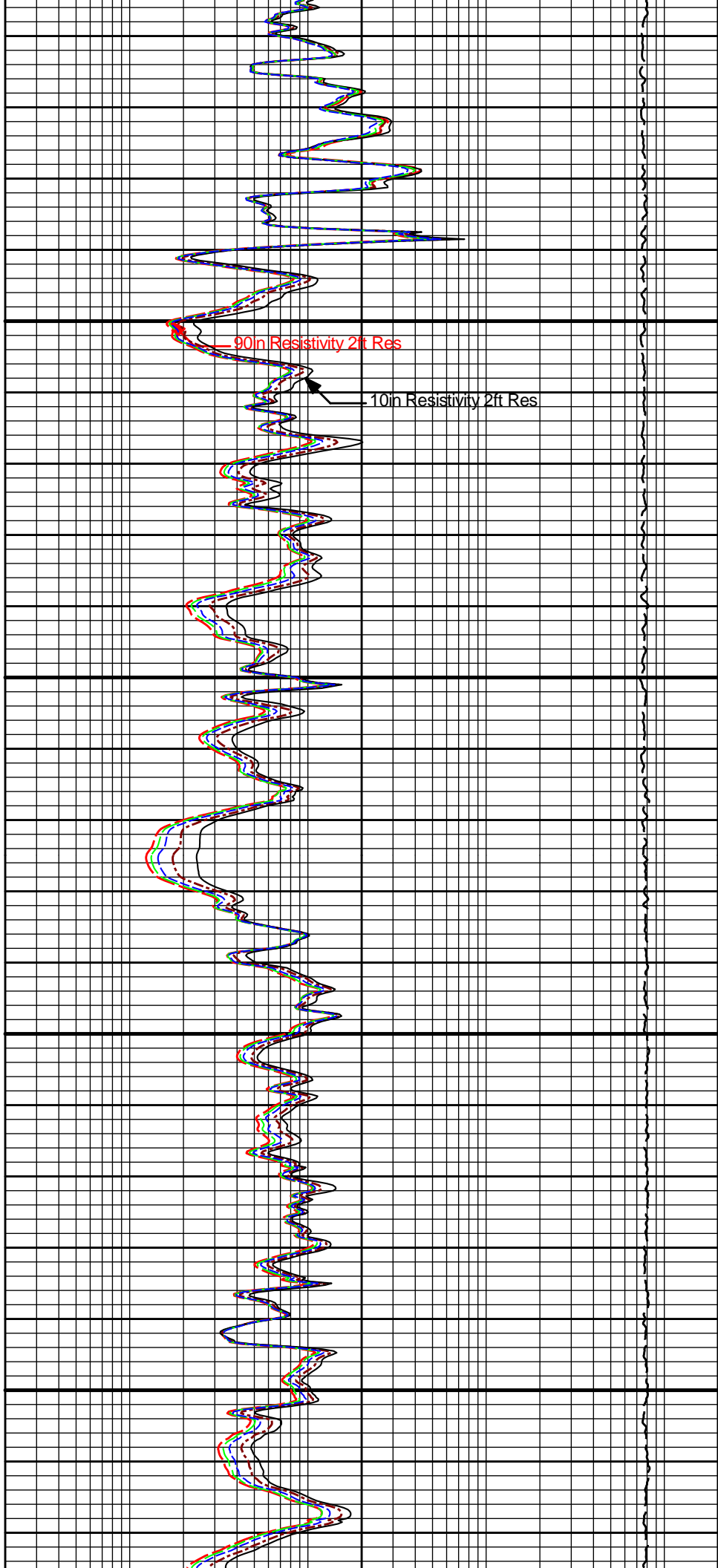
90n Resistivity 2ft Res

10m Resistivity 2ft Res



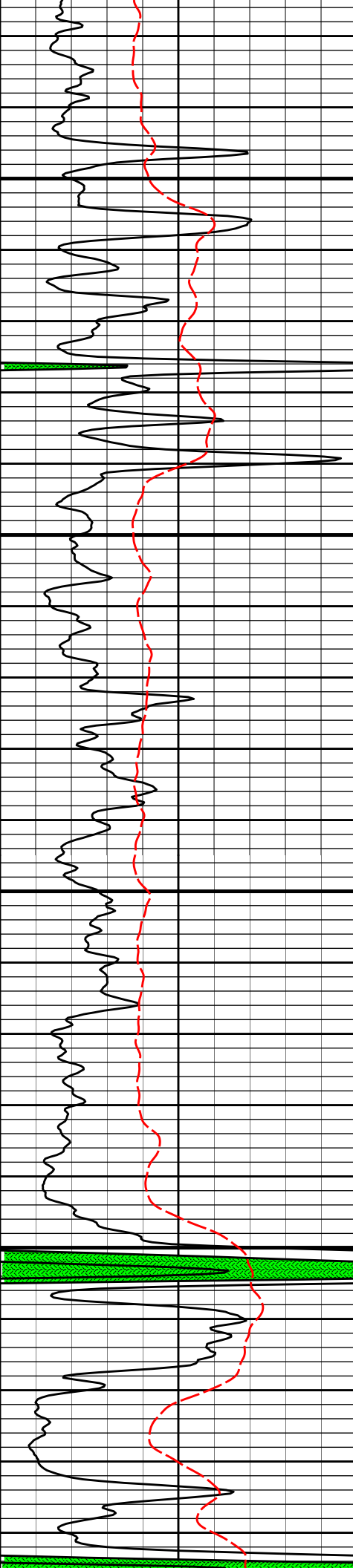
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3700



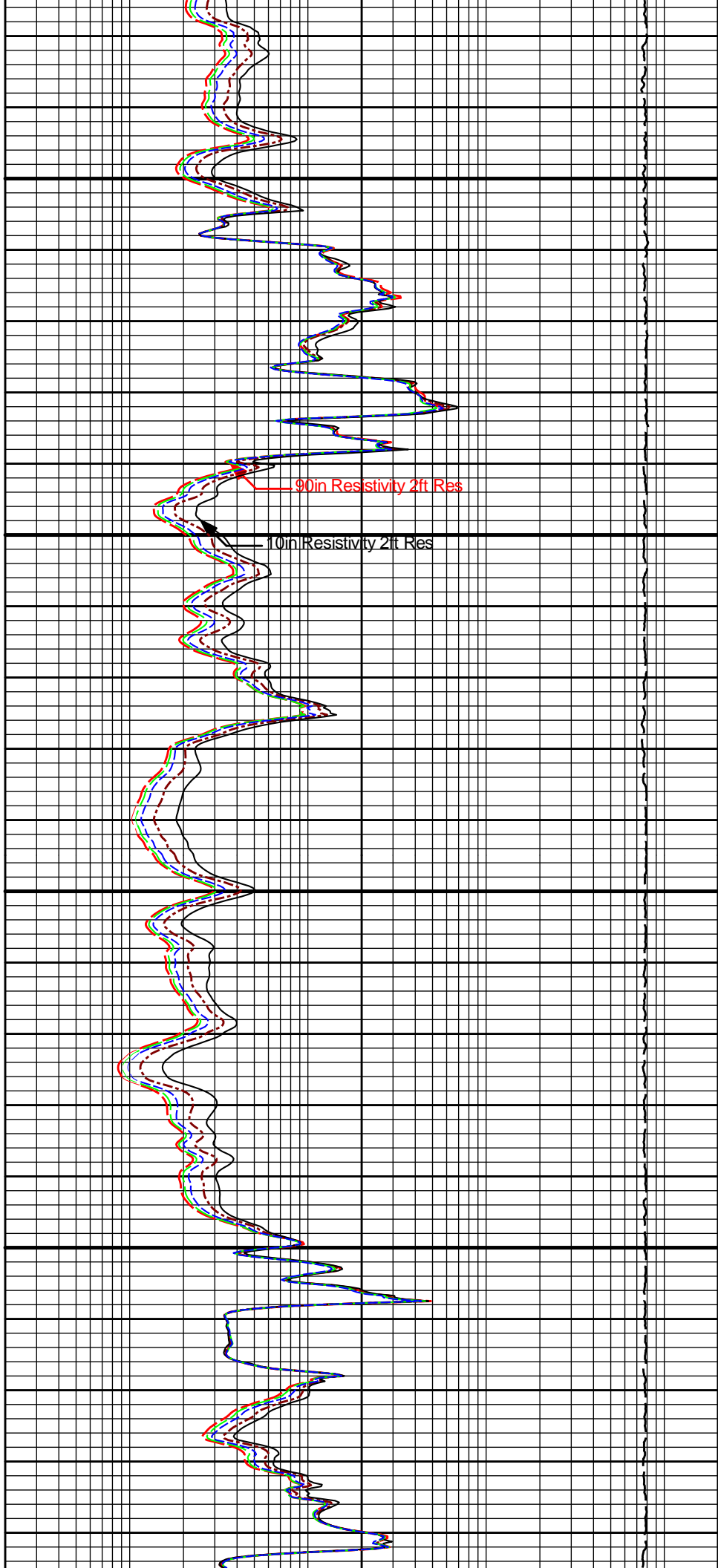
90in Resistivity 2ft Res

10in Resistivity 2ft Res



3800

3900



90in Resistivity 2ft Res

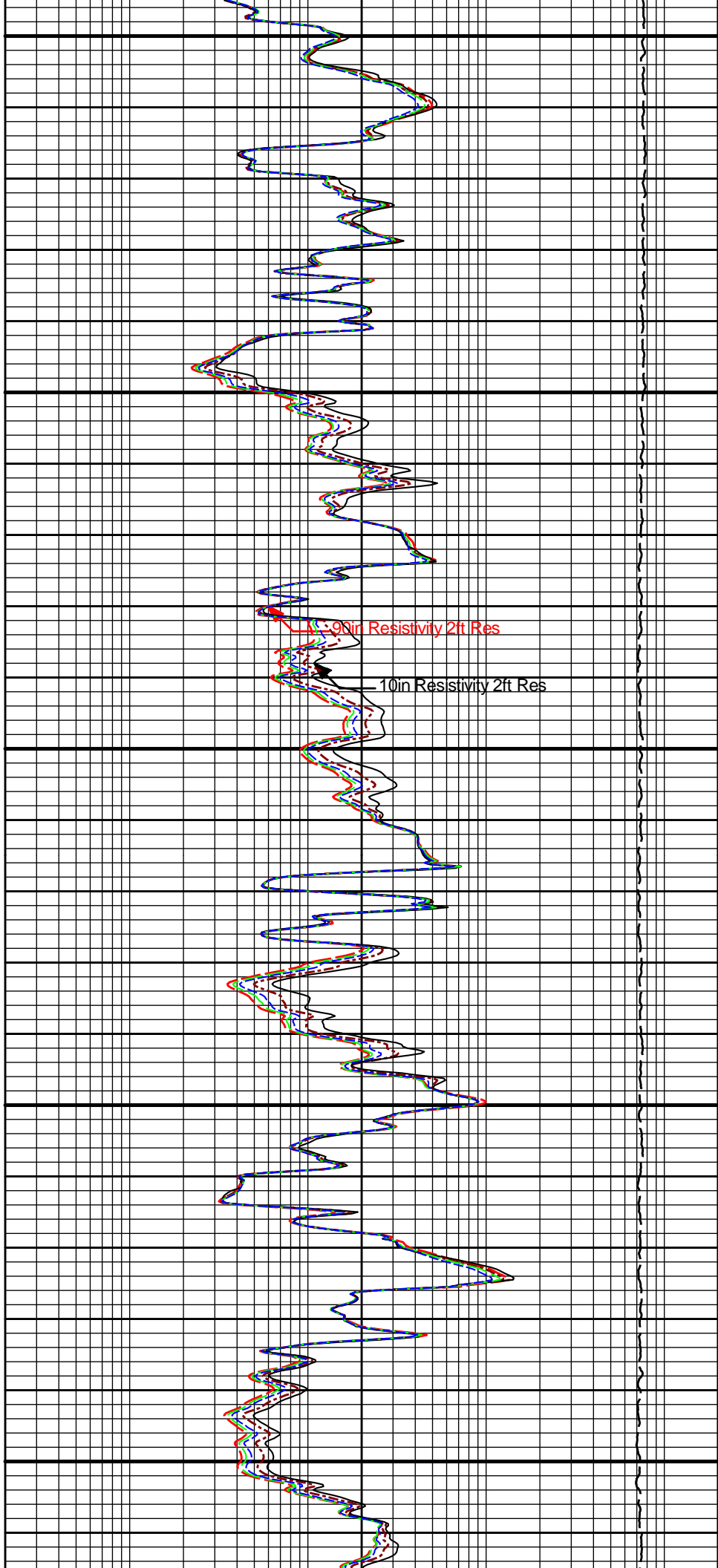
10in Resistivity 2ft Res



4000

4100

4200



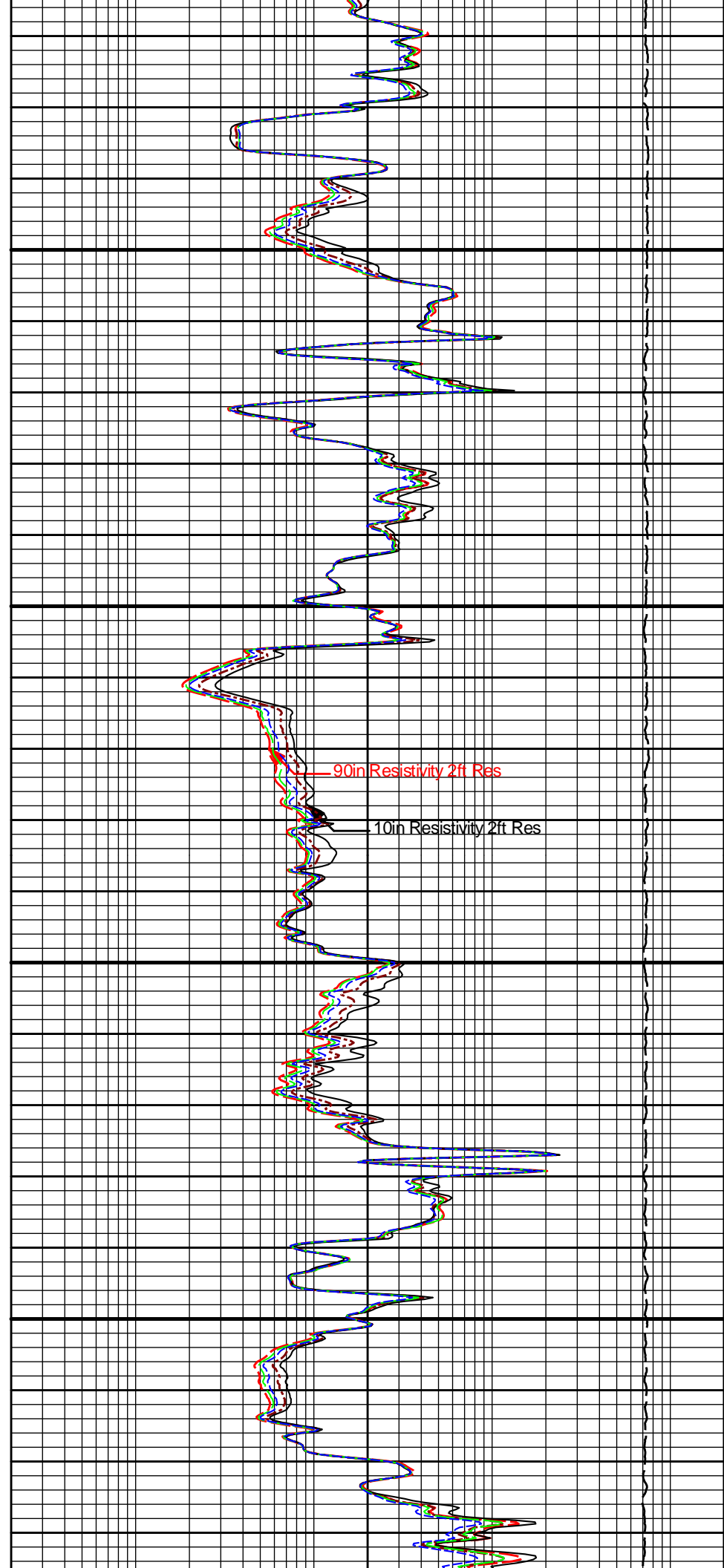
90in Resistivity 2ft Res

10in Resistivity 2ft Res



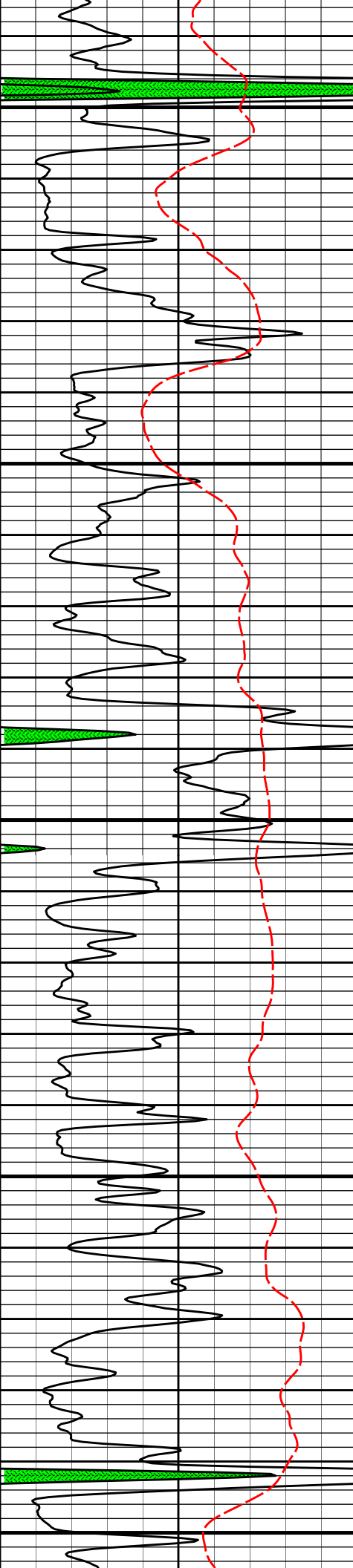
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4400



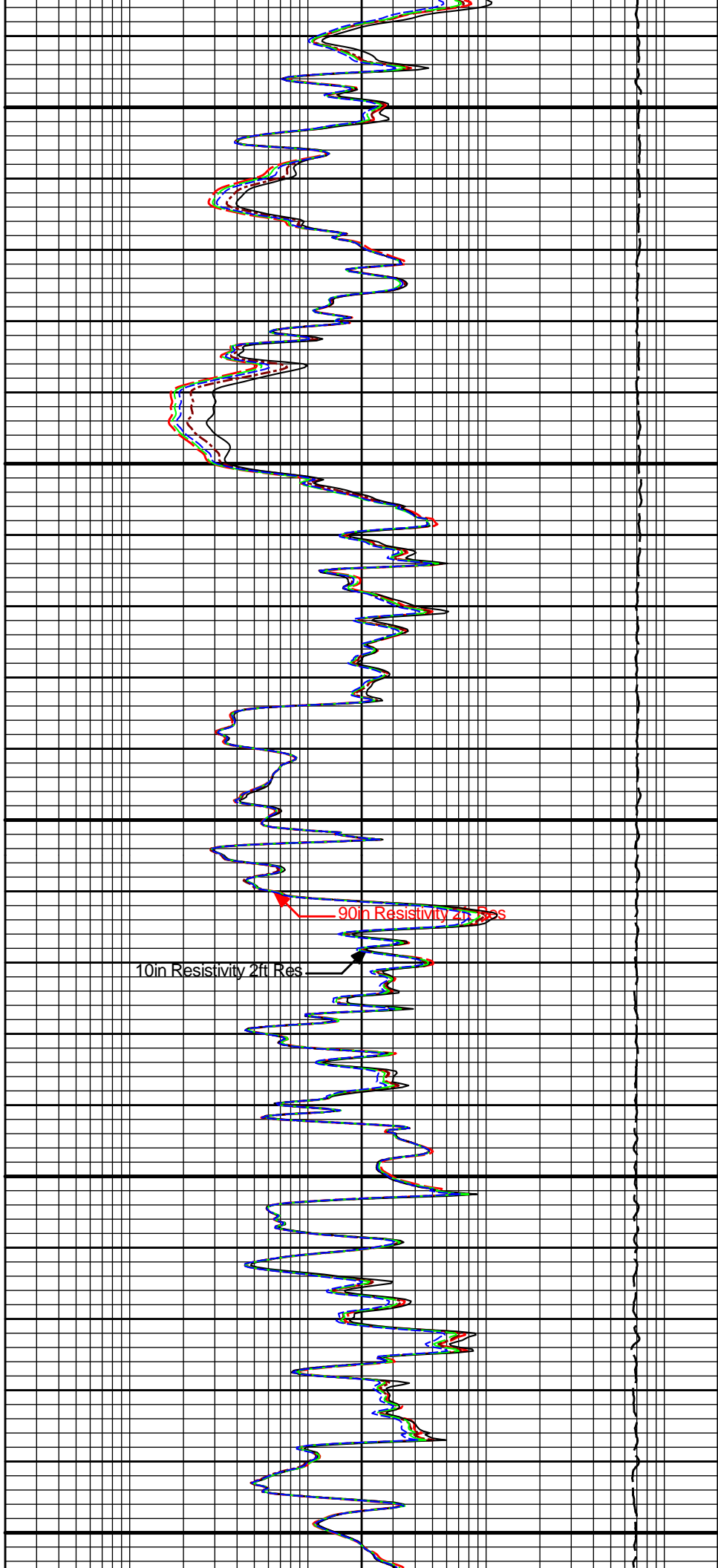
90in Resistivity 2ft Res

10in Resistivity 2ft Res



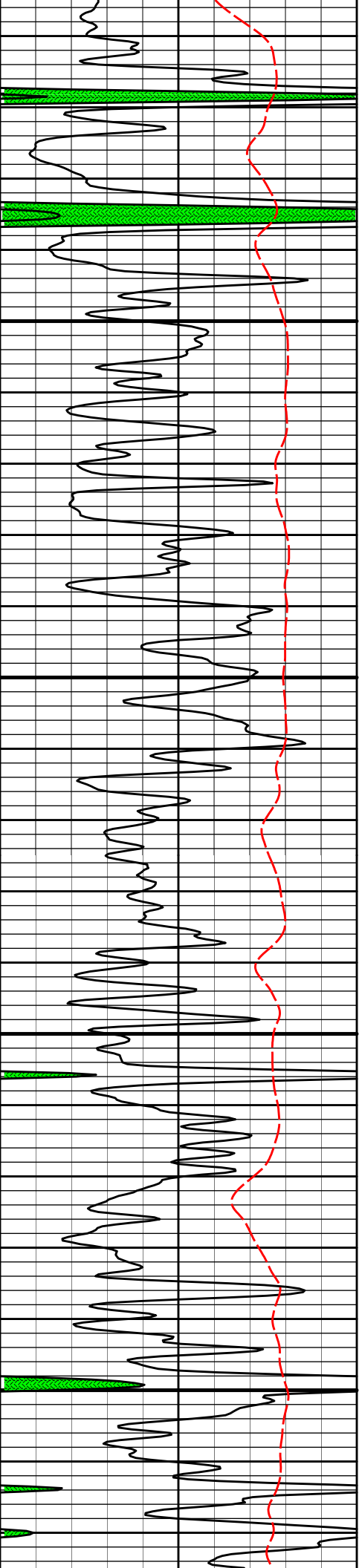
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4600



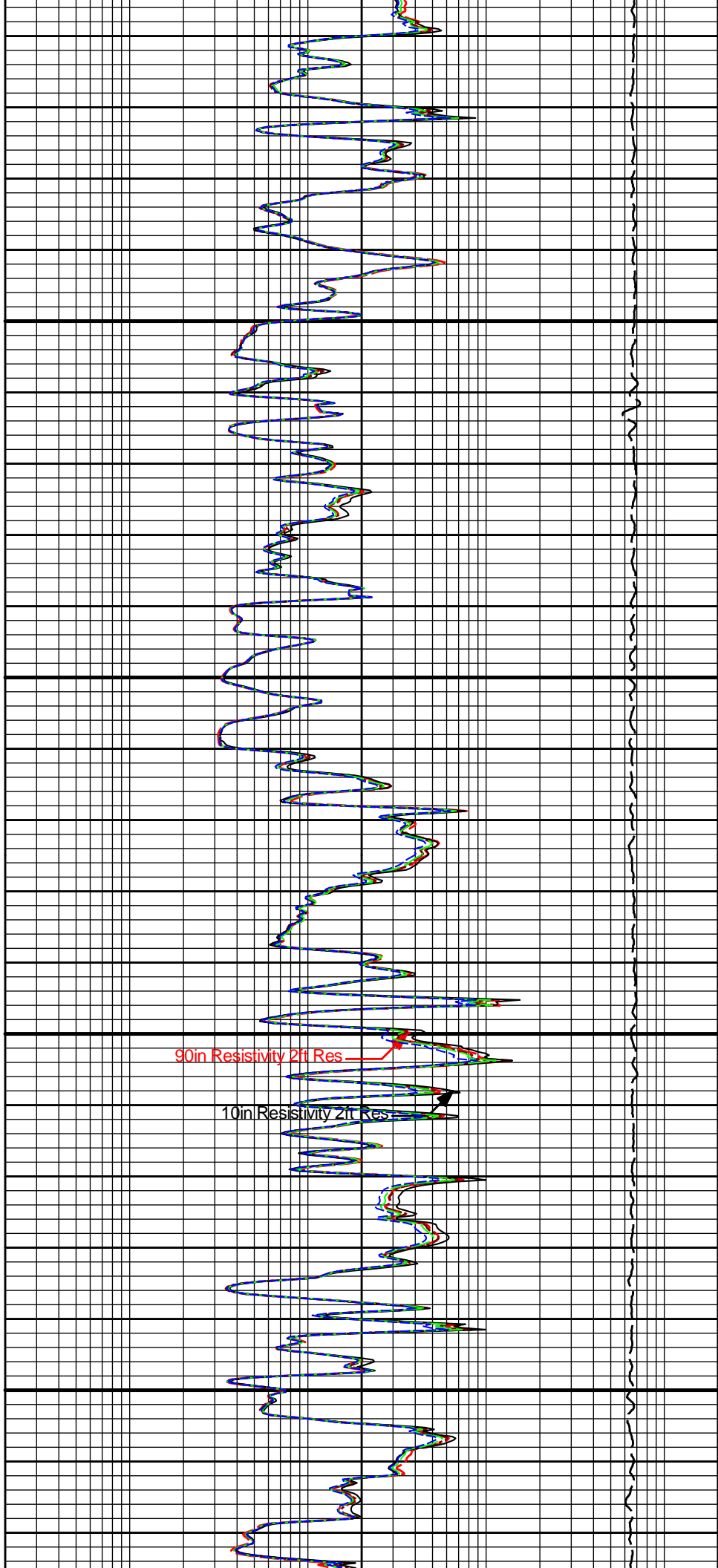
10in Resistivity 2ft Res

90in Resistivity 2ft Res



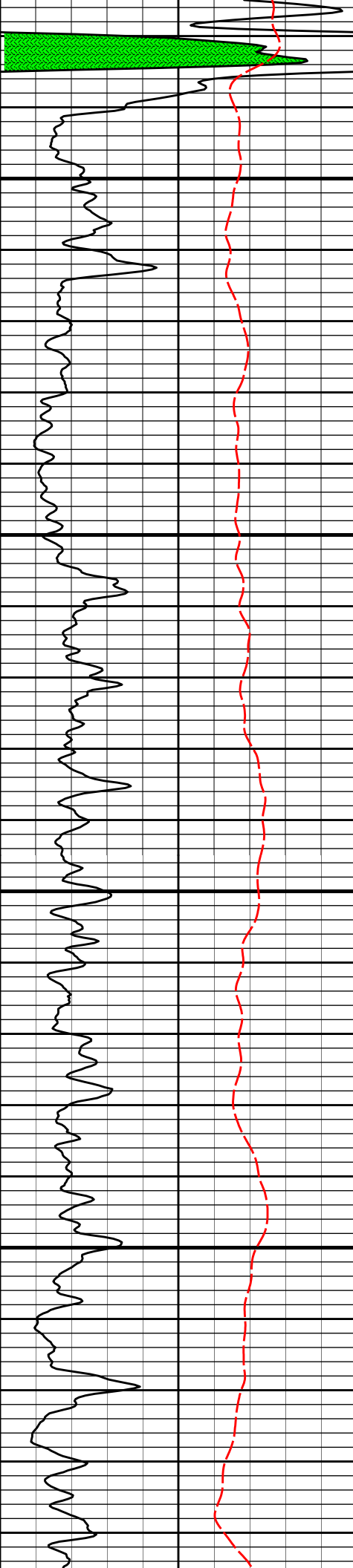
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4800



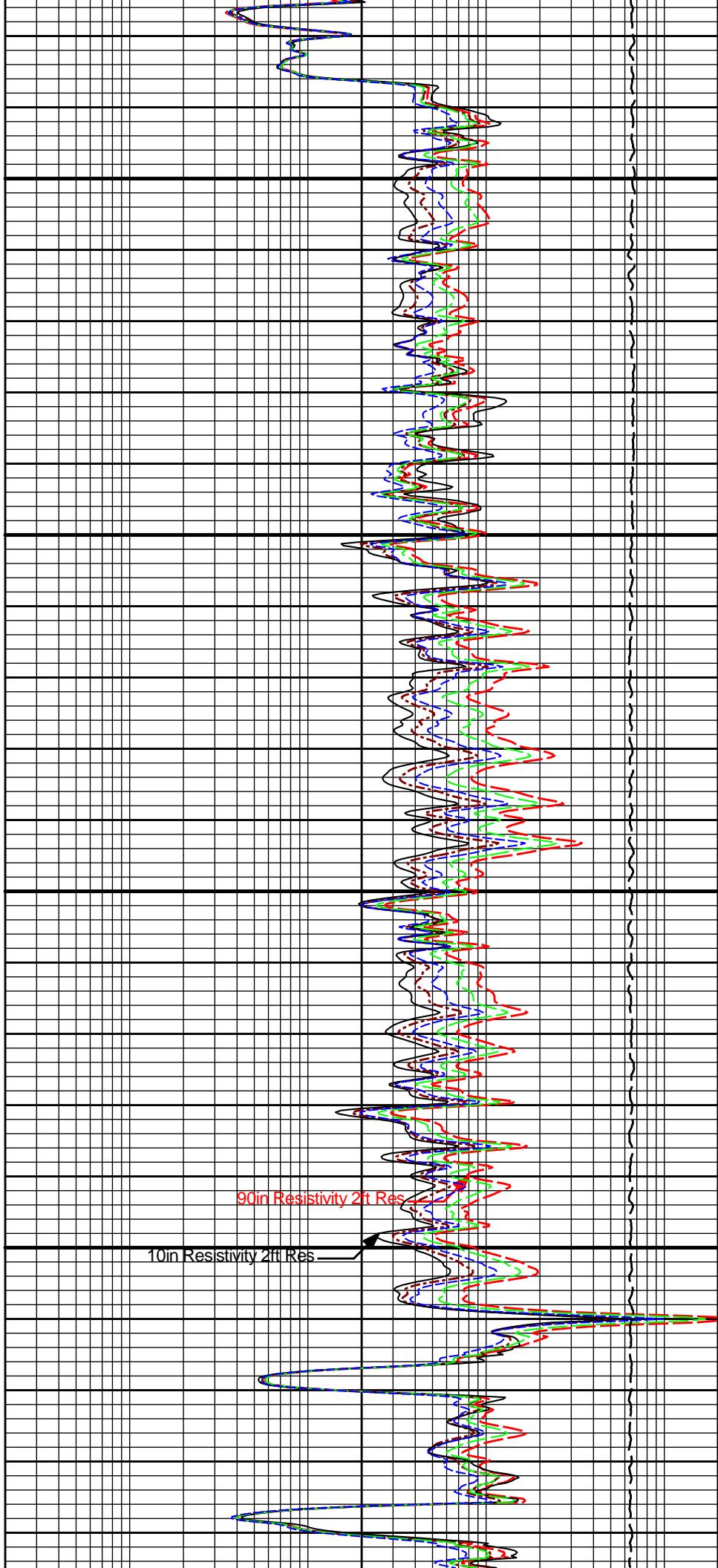
90in Resistivity 2ft Res

10in Resistivity 2ft Res



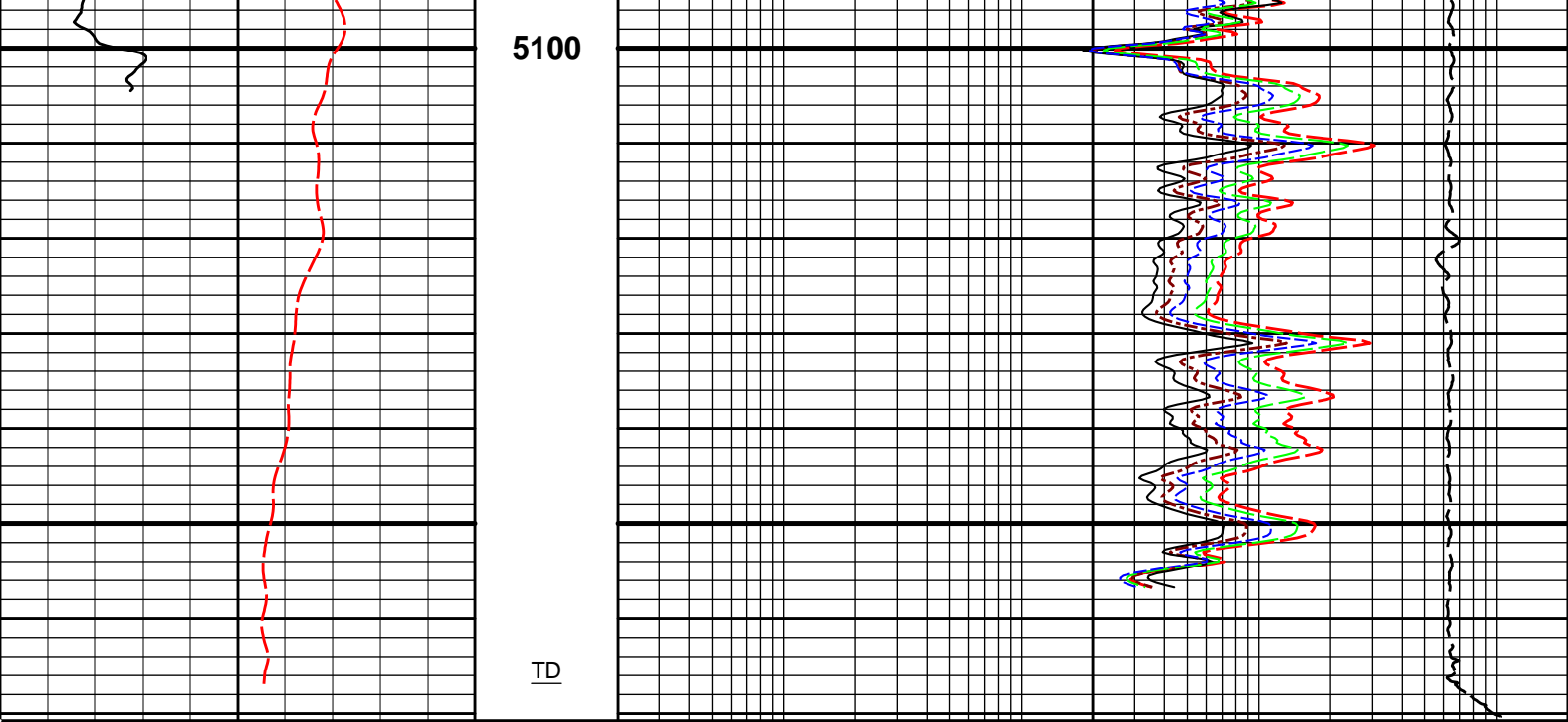
4900

5000



90in Resistivity 2ft Res

10in Resistivity 2ft Res



0	Gamma API	150		15K	Tension	0
	api				pounds	
	SP		0.2	90in Resistivity 2ft Res		2K
	-]20[+			ohmm		
			0.2	60in Resistivity 2ft Res		2000
				ohmm		
			0.2	30in Resistivity 2ft Res		2000
				ohm-metre		
			0.2	20in Resistivity 2ft Res		2000
				ohmm		
			0.2	10in Resistivity 2ft Res		2K
				ohmm		

HALLIBURTON

Plot Time: 26-Sep-22 21:59:02
 Plot Range: 1795 ft to 5170.75 ft
 Data: 09_26_MERIT\Well Based\DAQ-MAIN\
 Plot File: \\-LOCAL-\09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\ACRT5\ACRT_5inch_main

5 INCH MAIN LOG

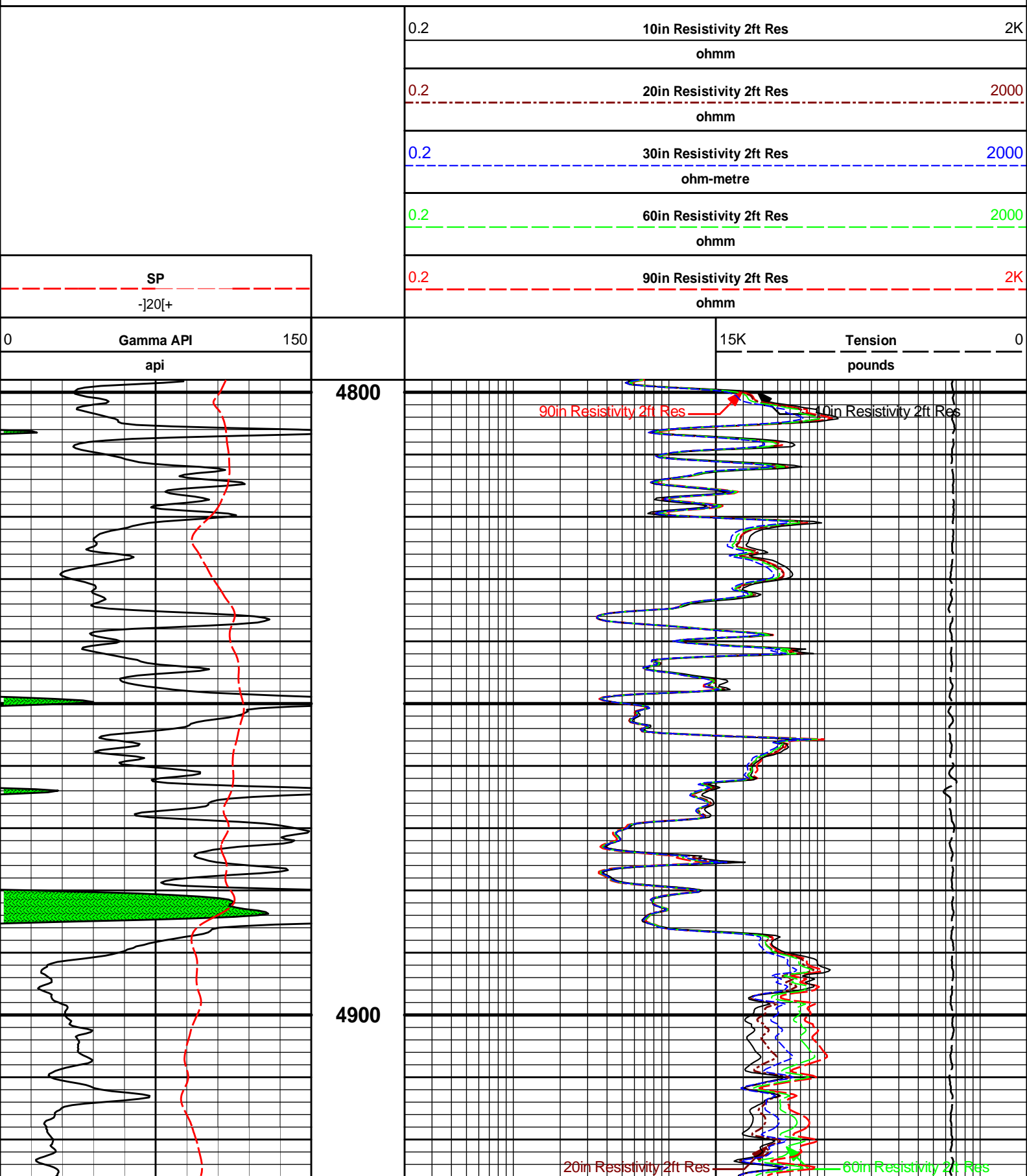
5 INCH MAIN LOG

HALLIBURTON

Plot Time: 26-Sep-22 21:59:02
 Plot Range: 4798 ft to 5175.5 ft
 Data: 09_26_MERIT\Well Based\DAQ-0001-003\
 Plot File: \\-LOCAL-\09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\ACRT5\ACRT_5inch_repeat

REPEAT SECTION

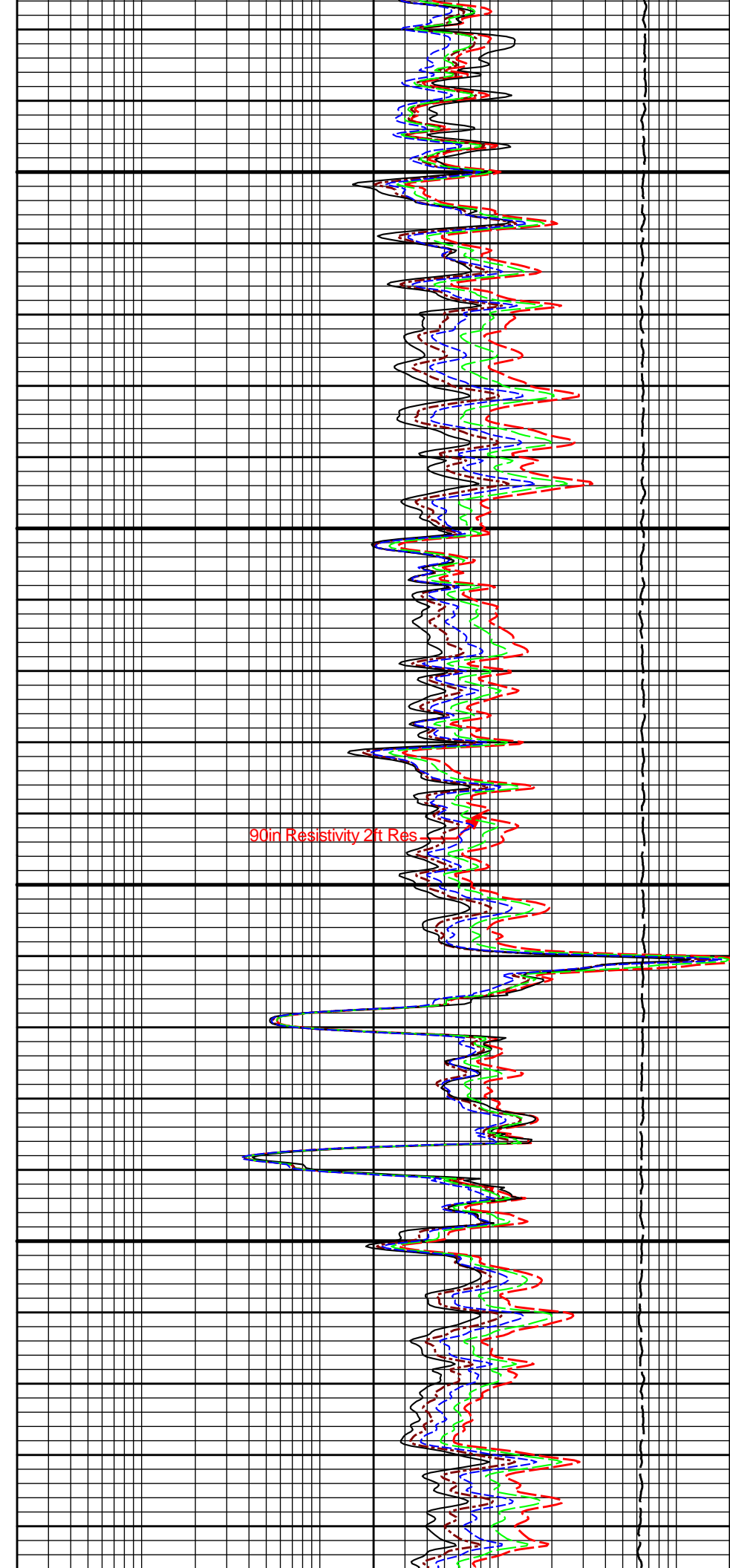
REPEAT SECTION

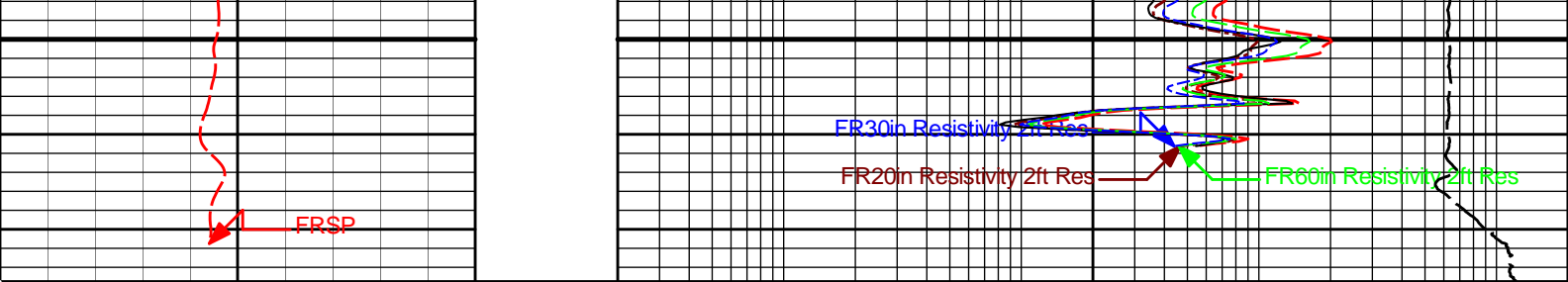




5000

5100





0	Gamma API	150	15K	Tension	0
	api			pounds	
	SP		0.2	90in Resistivity 2ft Res	2K
	-]20[+			ohmm	
			0.2	60in Resistivity 2ft Res	2000
				ohmm	
			0.2	30in Resistivity 2ft Res	2000
				ohm-metre	
			0.2	20in Resistivity 2ft Res	2000
				ohmm	
			0.2	10in Resistivity 2ft Res	2K
				ohmm	

HALLIBURTON

Plot Time: 26-Sep-22 21:59:04
 Plot Range: 4798 ft to 5175.5 ft
 Data: 09_26_MERITWell Based\DAQ-0001-003\
 Plot File: \\-LOCAL-109_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\ACRT5\ACRT_5inch_repeat

REPEAT SECTION

REPEAT SECTION

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11405267	Reference Calibration Date: 05-Aug-21 10:53:16
Engineer: MOHAMED ABUEL GASIM	Calibration Date: 17-Jun-22 16:53:35
Software Version: WL INSITE R6.4.5 (Build 6)	Calibration Version: 1

Calibrator Source S/N: TB-768
 Calibrator API Reference: 203.00 api
 Equivalent Calibrator API Reference: 206.6 api

Measurement	Measured	Calibrated	Units
Background	19.1	17.9	api
Background + Calibrator	238.9	224.5	api
Calibrator	219.9	206.6	api

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11019641

Reference Calibration Date: 19-Aug-22 17:45:26

Engineer: J. Cabanzo

Calibration Date: 19-Aug-22 18:08:05

Software Version: WL INSITE R6.6.7 (Build 8)

Calibration Version: 1

Logging Source S/N: 96395B

Tank Serial Number: 10585331

Reference value assigned to Tank: 54.090

Snow Block S/N: 2

Calibration Tank Water Temperature: 86 degF

Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	0.95915	0.96288	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)

Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2233	0.2244	0.0012	+/- 0.0020
Calibrated Ratio:	10.1421	10.1815	0.039	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0589	0.02000 - 0.09000

PASS/FAIL SUMMARY

Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

DUAL SPACED NEUTRON FIELD CALIBRATION

Tool Name: DSNT - 11019641

Reference Calibration Date: 19-Aug-22 18:08:05

Engineer: J. Cabanzo

Calibration Date: 19-Aug-22 18:09:36

Software Version: WL INSITE R6.6.7 (Build 8)

Calibration Version: 1

Logging Source S/N: 96395B

Snow Block S/N: 2

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0589	0.0712	0.0122	+/- 0.0150

PASS/FAIL SUMMARY

Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10695352

Reference Calibration Date: 19-Aug-22 15:31:53

Engineer: J. Cabanzo

Calibration Date: 19-Aug-22 15:37:09

Software Version: WL INSITE R6.6.7 (Build 8)

Calibration Version: 1

Host Tool Name: DSNT - 11019641

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2934.34	-3021.58	-7000.00 - -1000.00
Pad Gain	0.0003900	0.0003927	0.0002000 - 0.0006000
Arm Offset	-3023.74	-2984.46	-5000.00 - 3000.00
Arm Gain	0.0005200	0.0005114	0.0003000 - 0.0007000
Arm Power	-0.000005411	-0.000004687	-0.000010000 - 0.000010000

The ring diameter is computed from: $DIAMETER = PAD\ EXTENSION + ARM\ EXTENSION + TOOL\ DIAMETER$

Tool Diameter: 4.50 in

CALIBRATION RINGS				
Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value
PAD EXTENSION:				
Small Ring (in)	2.02	2.00	-0.02	+/- 0.20
Medium Ring (in)	3.76	3.75	-0.01	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.54	6.50	-0.04	+/- 0.20
Medium Ring (in)	8.30	8.25	-0.05	+/- 0.20
Large Ring (in)	15.00	15.00	0.00	+/- 0.20

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check: Passed
 Ring-Measurement Check: Passed

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check: Passed

SDLT CALIPER FIELD CALIBRATION

Tool Name: **SDLT - 10695352**

Reference Calibration Date: **19-Aug-22 15:37:09**

Engineer: **J. Cabanzo**

Calibration Date: **19-Aug-22 15:38:25**

Software Version: **WL INSITE R6.6.7 (Build 8)**

Calibration Version: **1**

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.76	0.01	+/- 0.10
Ring Diameter	8.25	8.24	-0.01	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check: Passed
 Diameter Check: Passed

MICRO LOG SHOP CALIBRATION

Tool Name: **Microlog Pad - 10695352**

Reference Calibration Date: **19-Aug-22 15:26:27**

Engineer: **M. GALLION**

Calibration Date: **18-Sep-22 11:56:50**

Software Version: **WL INSITE R6.6.5 (Build 5)**

Calibration Version: **1**

Host Tool Name: **DSNT - 11019641**

CALIBRATION COEFFICIENT SUMMARY					
Measurement	Micro Log Normal		Micro Log Lateral		Units
	Measured	Calibrated	Measured	Calibrated	
Tool Zero	-0.07	-0.05	-0.01	0.01	ohmm
Calibration Point #1	0.00	0.02	-0.00	0.02	ohmm
Calibration Point #2	20.00	20.00	20.00	20.00	ohmm
Internal Reference	19.93	19.93	19.99	20.00	ohmm

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	-0.11	0.29	V
Calibration Point #1	18.75	2.31	V
Calibration Point #2	5342.97	6961.14	V
Internal Reference	5325.50	6960.16	V

MICRO LOG FIELD CHECK

Tool Name: Microlog Pad - 10695352

Reference Calibration Date: 18-Sep-22 11:56:50

Engineer: M. GALLION

Calibration Date: 18-Sep-22 11:57:39

Software Version: WL INSITE R6.6.5 (Build 5)

Calibration Version: 1

Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	-0.05	-0.05	0.01	0.01	ohmm
Internal Reference	19.93	19.94	20.00	20.00	ohmm

Summary				
Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.93	19.94	-0.01	+/- 0.80
Microlog Lateral	20.00	20.00	0.00	+/- 0.80

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - 10865883

Reference Calibration Date: 18-Aug-22 15:18:35

Engineer: J. Cabanzo

Calibration Date: 18-Aug-22 15:40:41

Software Version: WL INSITE R6.6.7 (Build 8)

Calibration Version: 1

Logging Source S/N: 5406GW

Aluminum Block S/N: 10585329

Density: 2.595g/cc

Pe: 3.270

Magnesium Block S/N: 10585330

Density: 1.679g/cc

Pe: 2.580

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0268	1.0413	0.90 - 1.10
Near Dens Gain	1.0028	1.0178	0.90 - 1.10
Near Peak Gain	1.0111	1.0223	0.90 - 1.10
Near Lith Gain	0.9937	1.0032	0.90 - 1.10
Far Bar Gain	1.0130	1.0125	0.90 - 1.10
Far Dens Gain	1.0018	1.0019	0.90 - 1.10
Far Peak Gain	0.9966	0.9966	0.90 - 1.10
Far Lith Gain	0.9721	0.9764	0.90 - 1.10
Near Bar Offset	0.0440	-0.0871	NONE
Near Dens Offset	0.2346	0.1031	NONE
Near Peak Offset	0.1484	0.0544	NONE
Near Lith Offset	0.2572	0.1772	NONE
Far Bar Offset	0.0901	0.0959	NONE
Far Dens Offset	0.1963	0.1949	NONE
Far Peak Offset	0.2260	0.2243	NONE
Far Lith Offset	0.3754	0.3427	NONE

Near Bar Background	926.68	925.11	700 - 1450
Near Dens Background	305.57	305.68	230 - 480
Near Peak Background	132.20	132.48	100 - 210
Near Lith Background	164.41	164.83	125 - 260

Near Lith Background	104.47	104.00	120 - 200
Far Bar Background	582.80	586.26	450 - 900
Far Dens Background	228.90	229.53	175 - 345
Far Peak Background	90.63	91.49	70 - 140
Far Lith Background	94.02	94.43	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.678	1.678	0.000	+/- 0.015
Pe	2.546	2.552	0.006	+/- 0.150
ALUMINUM				
Density (g/cc)	2.596	2.595	-0.001	+/- 0.01500
Pe	3.221	3.228	0.007	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	0.0014	+/- 0.0110	0.0003	+/- 0.0140
Magnesium Block	-0.0006	+/- 0.0110	-0.0014	+/- 0.0140
Aluminum Block	-0.0004	+/- 0.0110	-0.0004	+/- 0.0140
Resolution	8.83	6.00 - 11.50	8.98	6.00 - 11.50
Internal Verifier(B+D+P+L)	1528	1200 - 2700	1002	800 - 1700

PASS/FAIL SUMMARY	
Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

SPECTRAL DENSITY FIELD CHECK			
Tool Name:	SDLT Pad - 10865883	Reference Calibration Date:	18-Aug-22 15:40:41
Engineer:	M. GALLION	Calibration Date:	17-Sep-22 19:26:40
Software Version:	WL INSITE R6.6.5 (Build 5)	Calibration Version:	1

Pad Temperature: 96.0 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1528.096	1528.486	0.390	15.742
Far (B+D+P+L) cps	1001.708	996.589	-5.119	16.936
Near Resolution	8.83	8.77	-0.060	0.50
Far Resolution	8.98	8.90	-0.080	1.00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt Sonde - 10933411	Reference Calibration Date:	10-Mar-22 11:52:39
Engineer:	MOHAMED ABUELGASIM	Calibration Date:	17-Jun-22 12:35:28
Software Version:	WL INSITE R6.6.7 (Build 8)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 10967817		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0093	1.05	0.95	1.0097	1.05	0.95	1.0029	1.05
A2 (50")	0.95	1.0129	1.05	0.95	1.0137	1.05	0.95	1.0066	1.05
A3 (29")	0.95	1.0093	1.05	0.95	1.0074	1.05	0.95	1.0011	1.05
A4 (17")	0.95	1.0092	1.05	0.95	1.0064	1.05	0.95	1.0040	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.9991	1.05	0.95	0.9969	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9833	1.05	0.95	0.9814	1.05

SONDE OFFSET

Subarray	R12KHz		R36KHz		R72KHz	
	(mmho/m)		(mmho/m)		(mmho/m)	
A1 (80")	-0.514		-4.153		-5.096	
A2 (50")	-1.142		-3.528		-4.869	
A3 (29")	-10.576		-3.717		-3.307	
A4 (17")	-100.911		-32.858		-26.318	
A5 (10")	N/A		-93.684		-45.343	
A6 (6")	N/A		345.620		160.599	

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.94	1.3
36K	1.0	1.85	2.0
72K	1.0	1.18	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.00	1.05

PASS/FAIL SUMMARY

GAIN RANGE CHK PASS

SONDE OFFSET CHK PASS

TOOL OK TO LOG

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11405267						
Gamma Ray Calibrator	206.6	-----	-----	0.0	+/- 9.00	api
DSNT-11019641						
Snow-Block Porosity	0.0589	0.0712	-----	-0.0123	+/- 0.0150	decp
SDLT-10695352						
Pad Extension	3.75	3.76	-----	-0.01	+/-0.10	in
Ring Diameter	8.25	8.24	-----	0.01	+/-0.15	in
Microlog Pad-10695352						
MicroLog Normal	19.93	19.94	-----	-0.01	+/-0.80	ohmm
MicroLog Lateral	20.00	20.00	-----	0.00	+/-0.80	ohmm

Near(B+D+P+L)	1528.096	1528.486	-----	-0.390	+/-15.742	cps
Far(B+D+P+L)	1001.708	996.589	-----	5.119	+/-16.936	cps
ACRt Sonde-10933411						
Mud Cell	1.00	-----	-----	0	-----	ohm-m

Data: 09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRTIDLE Date: 26-Sep-22 20:48:03

HALLIBURTON

PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	7.875	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.200	ppg
	SHARED	WAGT	Weighting Agent	Barite	
	SHARED	BSAL	Borehole salinity	0.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	1.000	ohmm
	SHARED	TRM	Temperature of Mud	75.0	degF
	SHARED	CSD	Logging Interval is Cased?	No	
	SHARED	ICOD	AHV Casing OD	5.500	in
	SHARED	CSTR	Compressive Strength	1000.00	psia
	SHARED	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	5173.00	ft
	SHARED	BHT	Bottom Hole Temperature	200.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	NONE	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
	SHARED	TEMM	CBM Temperature Master Tool	GTET	
	SHARED	MSAL	Water-base mud filtrate salinity	0.00	ppm
	Rwa / CrossPlot	XPOK	Process Crossplot?	Yes	
	Rwa / CrossPlot	FCHO	Select Source of F	Automatic	
	Rwa / CrossPlot	AFAC	Archie A factor	0.6200	
	Rwa / CrossPlot	MFAC	Archie M factor	2.1500	
	Rwa / CrossPlot	RMFR	Rmf Reference	0.10	ohmm
	Rwa / CrossPlot	TMFR	Rmf Ref Temp	75.00	degF
	Rwa / CrossPlot	RWA	Resistivity of Formation Water	0.05	ohmm
	Rwa / CrossPlot	ADP	Use Air Porosity to calculate CrossplotPhi	No	
	Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT	
	Rwa / CrossPlot	ROIN	Input for RO Calculation	Rwa	
	GTET	ACOK	Do ACCZ Calculations?	Yes	
	GTET	GROK	Process Gamma Ray?	Yes	
	GTET	GEOK	Process Gamma Ray EVR?	No	
	GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
	GTET	BHSM	Borehole Size Source Tool	SDLT	

DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNSO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTT	Temperature Correction Type	None	
DSNT	DPRS	DSN Pressure Correction Type	None	
DSNT	SHCO	View More Correction Options	No	
DSNT	UTVD	Use TVD for Gradient Corrections?	No	
DSNT	LHWT	Logging Horizontal Water Tank?	No	
DSNT	UCLA	Classic Neutron Parameter utilized?	No	
DSNT	BHSM	Borehole Size Source Tool	SDLT	
SDLT	CLOK	Process Caliper Outputs?	Yes	
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	No	
SDLT Pad	CB	Logging Calibration Blocks?	No	
SDLT Pad	SPVT	SDLT Pad Temperature Valid?	Yes	
SDLT Pad	DTWN	Disable temperature warning	No	
SDLT Pad	DMA	Formation Density Matrix	2.710	g/cc
SDLT Pad	DFL	Formation Density Fluid	1.000	g/cc
SDLT Pad	BHSM	Borehole Size Source Tool	SDLT	
BSAT	MBOK	Compute BCAS Results?	Yes	
BSAT	FLLO	Frequency Filter Low Pass Value?	5000	Hz
BSAT	FLHI	Frequency Filter High Pass Value?	27000	Hz
BSAT	DTFL	Delta -T Pore Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	Limestone 47.6	
BSAT	DTSH	Delta -T Shale	100.00	uspf
BSAT	SPEQ	Acoustic Porosity Equation	Wylie	
ACRt Sonde	RTOK	Process ACRt?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Upr	
ACRt Sonde	TPOS	Tool Position	Centered	
ACRt Sonde	RMOP	Rmud Source	Mud Cell	
ACRt Sonde	RMIN	Minimum Resistivity for MAP	0.20	ohmm
ACRt Sonde	RMAX	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm
ACRt Sonde	BHSM	Borehole Size Source Tool	SDLT	
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No	

BOTTOM

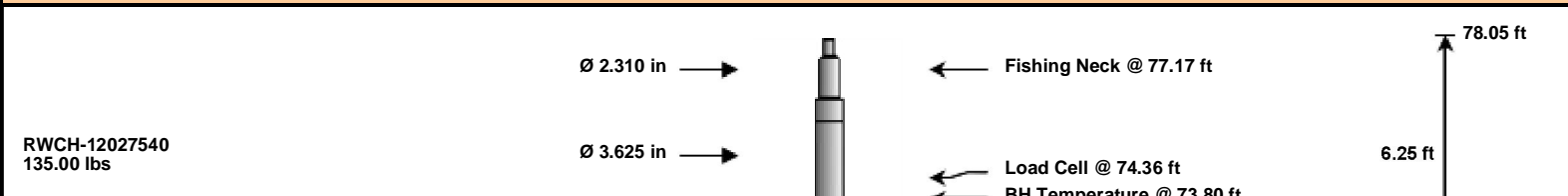
Data: 09_26_MERIT0001 GTET-DSNT-SDLT-BSAT-ACRTIDLE

Date: 26-Sep-22 19:47:41

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
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Weak Point 12000 lbs-
00000012
0.01 lbs

Ø 0.010 in*

DT Temperature @ 75.00 ft
Z-Accelerometer @ 71.35 ft

71.80 ft

8.52 ft

GTET-11405267
165.00 lbs

Ø 3.625 in

GammaRay @ 65.74 ft

63.28 ft

DSN Decentralizer-
11019643
6.60 lbs

Ø 5.000 in*

Ø 3.625 in

9.69 ft

DSNT-11019641
174.00 lbs

DSN Far @ 56.34 ft
DSN Near @ 55.59 ft

53.59 ft

SDLT Pad-10865883
65.00 lbs
Microlog Pad-10695352
8.00 lbs

Ø 4.500 in

Ø 4.500 in*

Ø 4.750 in*

Ø 0.800 in*

10.81 ft

SDLT-10695352
360.00 lbs

RAM-Cs137-10020004
1.00 lbs

Microlog @ 45.78 ft
SDL Caliper @ 45.59 ft
SDL @ 45.58 ft

42.78 ft

Flex Joint-10883966
140.00 lbs

Ø 3.625 in

5.67 ft

Centralizer 25-00000001
8.00 lbs

Ø 4.000 in*

37.11 ft

BSAT-10747681
300.00 lbs

Ø 3.625 in

Receiver Array @ 28.59 ft
Sonic Receivers @ 28.59 ft

15.77 ft

ACRt Instrument-
10967817

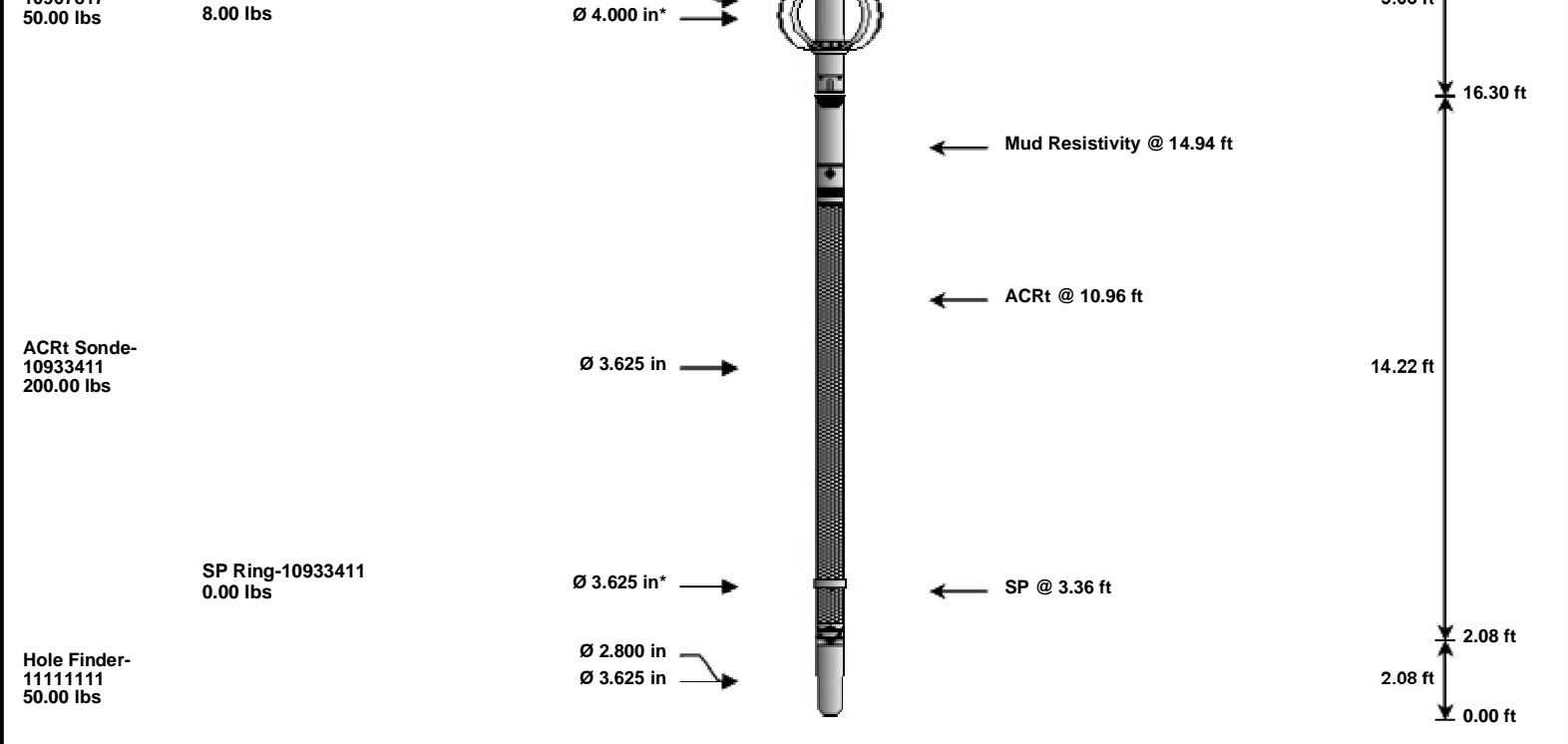
Centralizer 25-00000002

Ø 3.625 in

5.03 ft

21.33 ft





Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max. Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	12027540	135.00	6.25	71.80	300.00
WP12K	Weak Point 12000 lbs	00000012	0.01	0.01	* 72.60	300.00
GTET	Gamma Telemetry Tool	11405267	165.00	8.52	63.28	60.00
DSNT	Dual Spaced Neutron	11019641	174.00	9.69	53.59	60.00
DCNT	DSN Decentralizer	11019643	6.60	5.13	* 56.92	300.00
SDLT	Spectral Density Tool	10695352	360.00	10.81	42.78	60.00
SDLP	Density Insite Pad	10865883	65.00	2.55	* 44.99	60.00
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	10020004	1.00	0.80	* 45.22	300.00
MICP	Microlog Pad	10695352	8.00	1.00	* 45.28	60.00
FLEX	Flex Joint	10883966	140.00	5.67	37.11	300.00
BSAT	Borehole Sonic Array Tool	10747681	300.00	15.77	21.33	60.00
OBCEN	Centralizer - 25 in. Overbody	00000001	8.00	2.08	* 33.99	300.00
ACRt	Array Compensated True Resistivity Instrument Section	10967817	50.00	5.03	16.30	120.00
OBCEN	Centralizer - 25 in. Overbody	00000002	8.00	2.08	* 17.29	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10933411	200.00	14.22	2.08	120.00
SP	SP Ring	10933411	0.00	0.25	* 3.36	300.00
HFND	Hole Finder	11111111	50.00	2.08	0.00	300.00

Total **1,670.61** **78.05**
 * Not included in Total Length and Length Accumulation.
 Data: 09_26_MERIT\0001 GTET-DSNT-SDLT-BSAT-ACRT\IDLE Date: 26-Sep-22 18:49:20

COMPANY	MERIT ENERGY COMPANY, LLC		
WELL	CELONA No. 1-12		
FIELD	ST LOUIS		
COUNTY	FINNEY	STATE	KS

HALLIBURTON	ARRAY COMPENSATED TRUE RESISTIVITY (5 INCH)
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