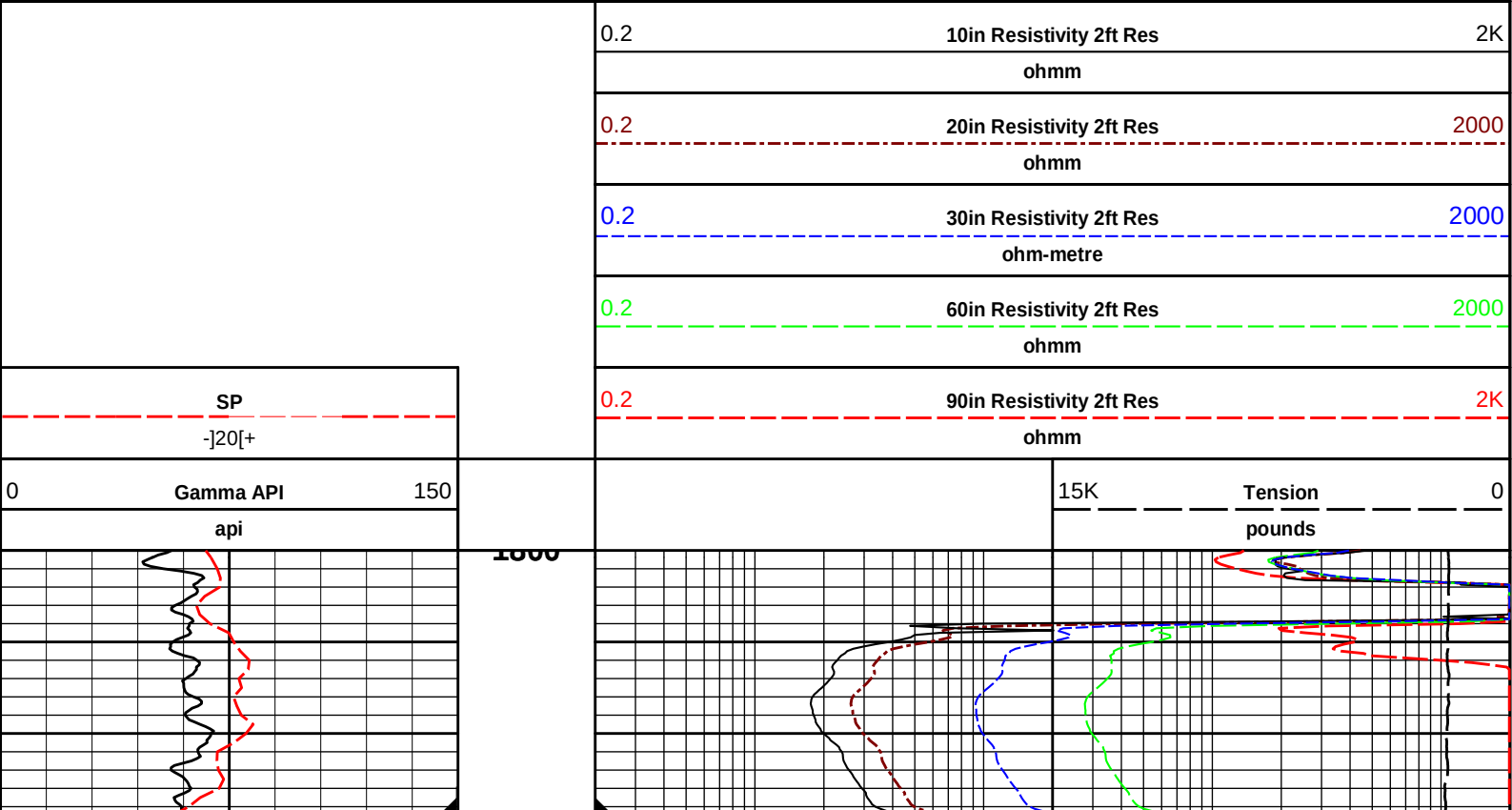


ARRAY COMPENSATED
TRUE RESISTIVITY
5" LOG

Fold here

Service Ticket No.: 905533484						API No.: 15-081-22187-00-00						PGM Version: WL INSITE R6.0.2 (Build 8)											
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE										RESISTIVITY SCALE CHANGES													
Date		Sample No.										Type Log		Depth		Scale Up Hole		Scale Down Hole					
Depth-Driller																							
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		Tool Pos.		Other			
Rmf @ Meas. Temp.				@				@															
Rmc @ Meas. Temp.				@				@															
Source Rmf		Rmc																					
Rm @ BHT				@				@															
Rmf @ BHT				@				@															
Rmc @ BHT				@				@															
EQUIPMENT DATA																							
GAMMA				ACOUSTIC				DENSITY				NEUTRON											
Run No.						Run No.						Run No.						Run No.					
Serial No.						Serial No.						Serial No.						Serial No.					
Model No.						Model No.						Model No.						Model No.					
Diameter						No. of Cent.						Diameter						Diameter					
Detector Model No.						Spacing						Log Type						Log Type					
Type												Source Type						Source Type					
Length						LSA [Y/N]						Serial No.						Serial No.					
Distance to Source						FWDA [Y/N]						Strength						Strength					
LOGGING DATA																							
GENERAL				GAMMA				ACOUSTIC				DENSITY				NEUTRON							
Run		Depth		Speed		Scale		Scale		Matrix		Scale		Matrix		Scale		Matrix					
No.		From	To	ft/min		L	R	L	R			L	R			L	R						

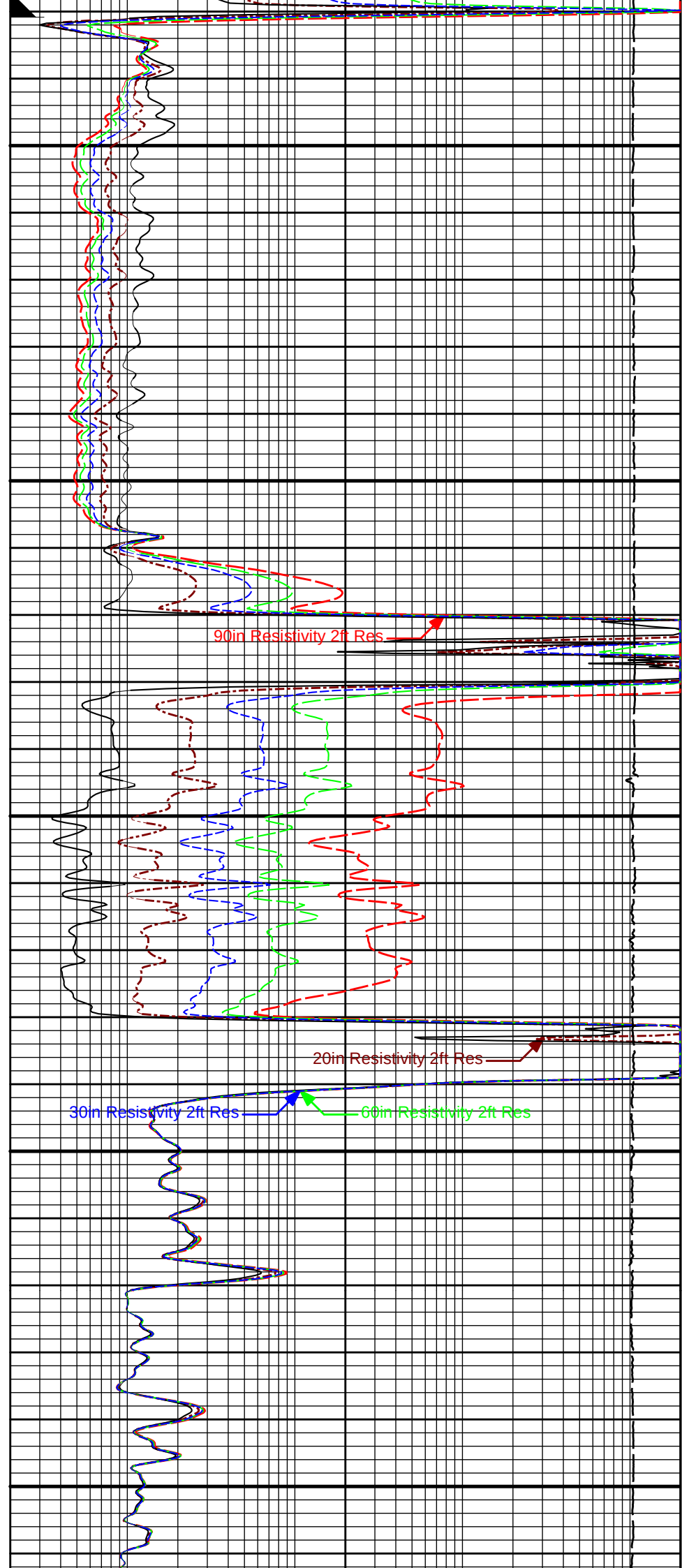


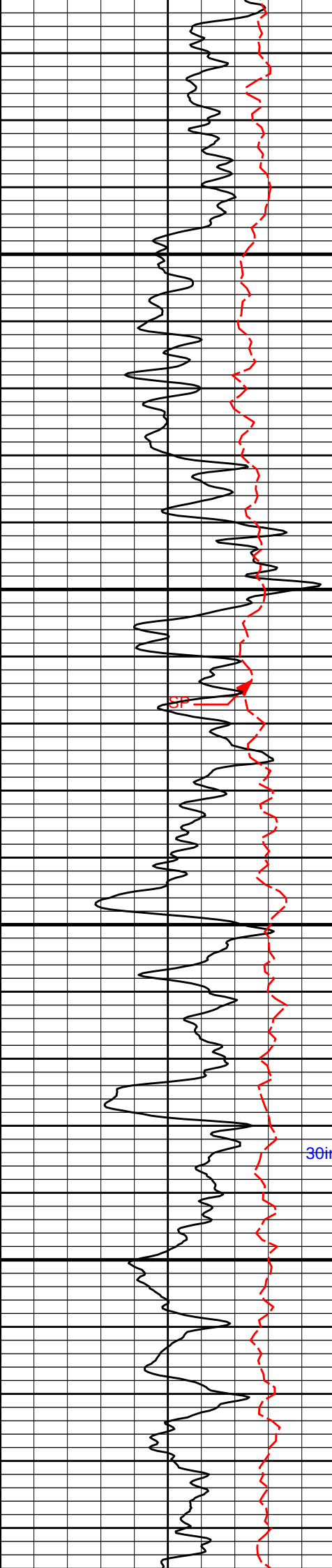


CSG

1900

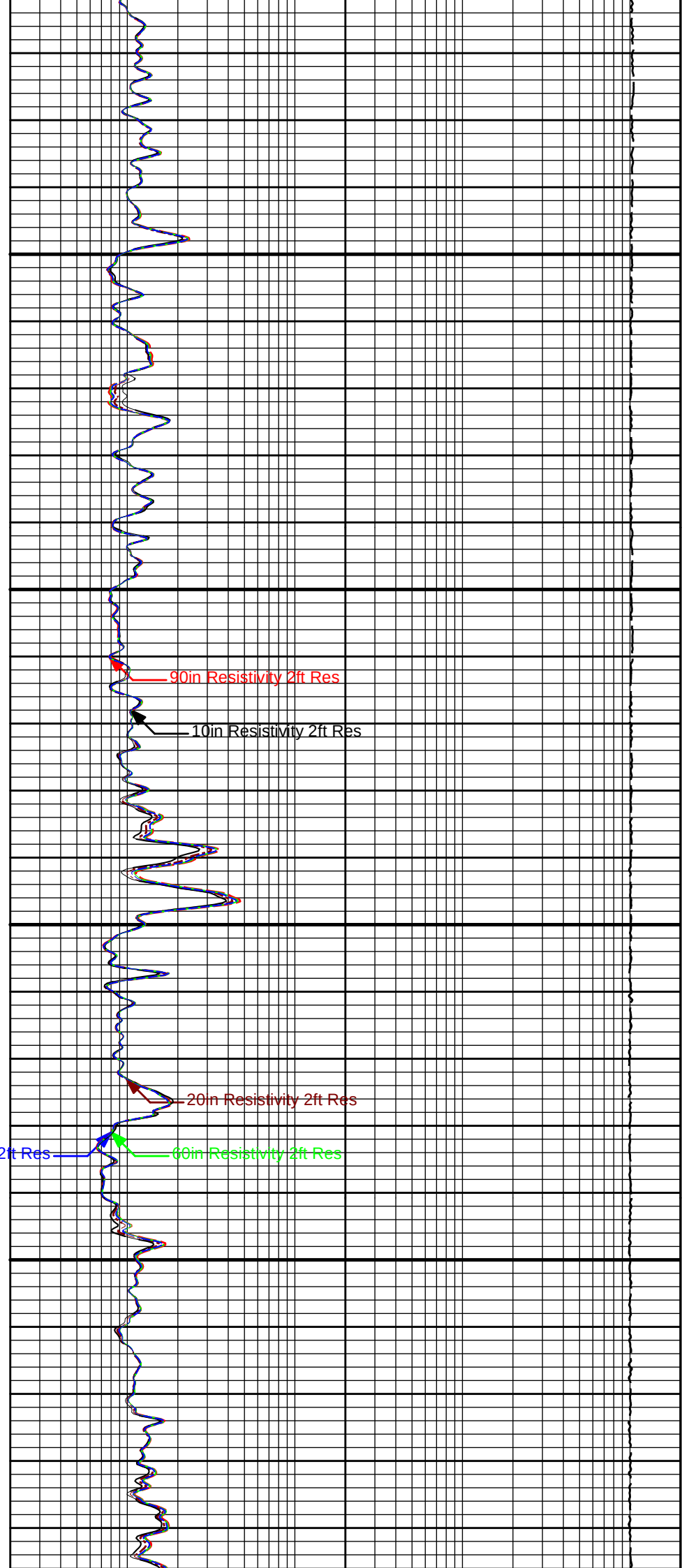
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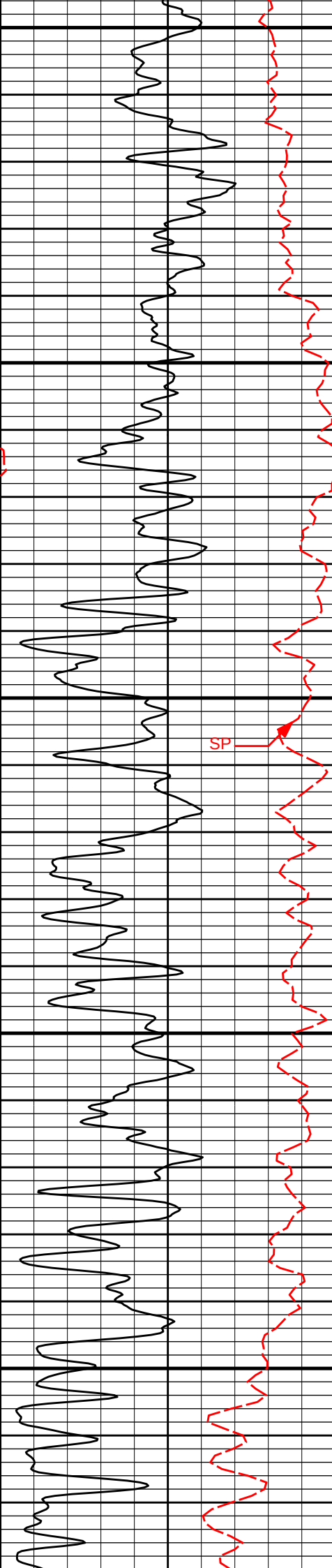




2100

2200



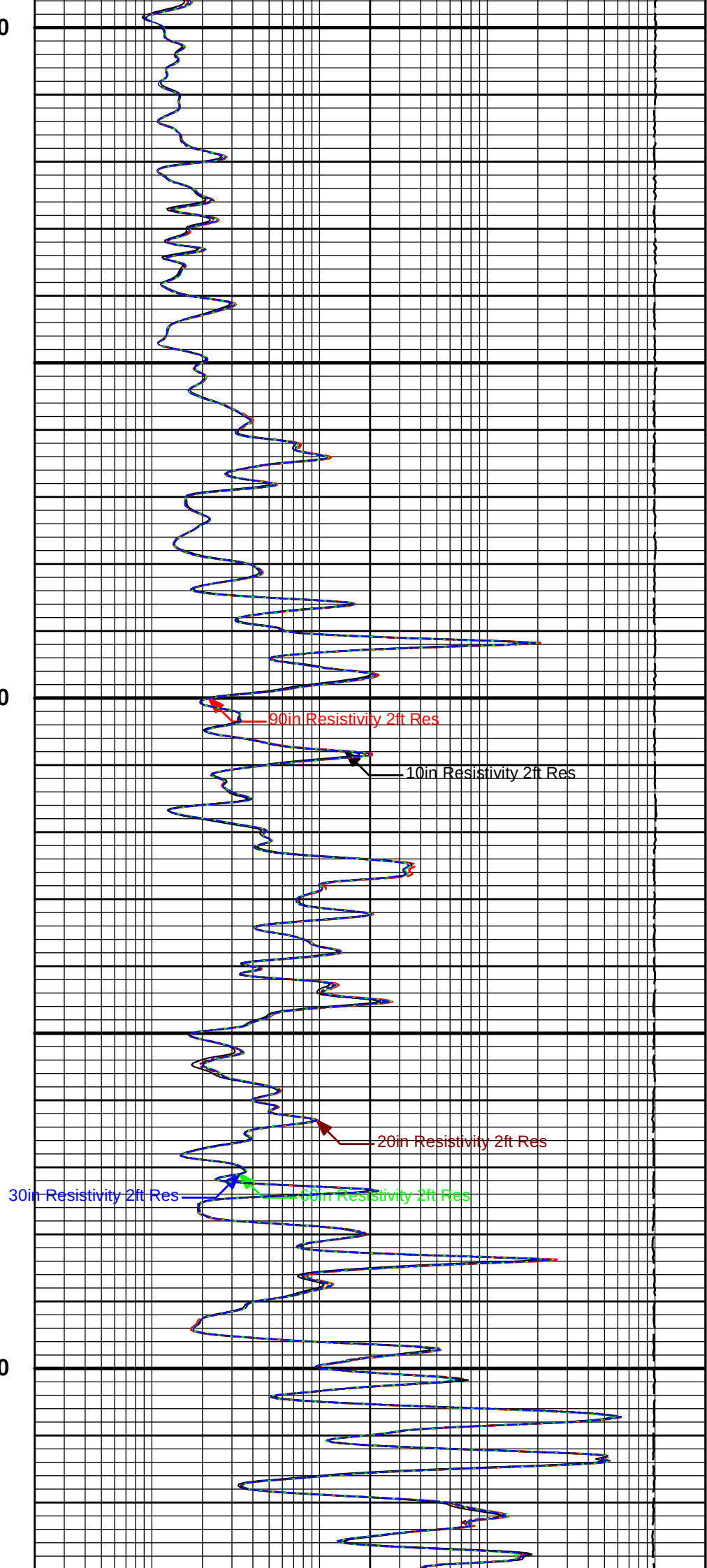


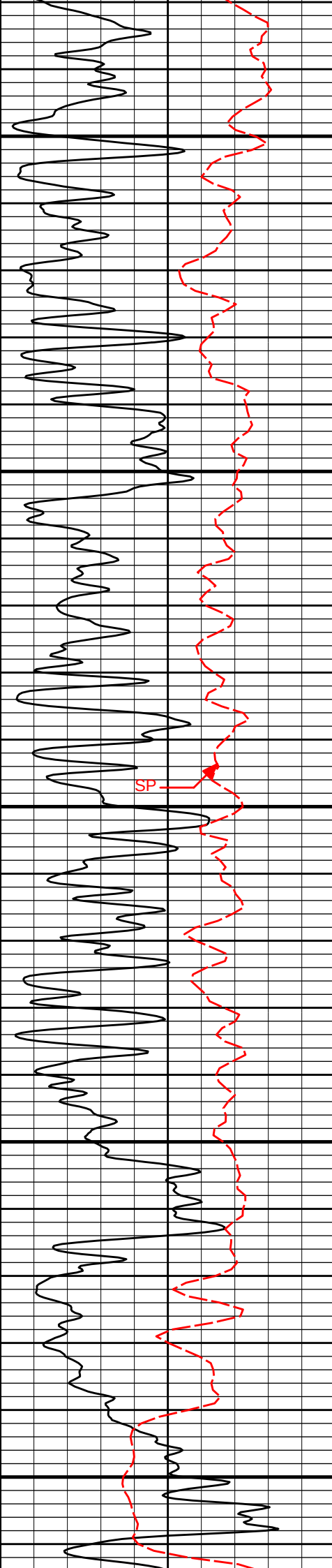
2300

2400

2500

SP

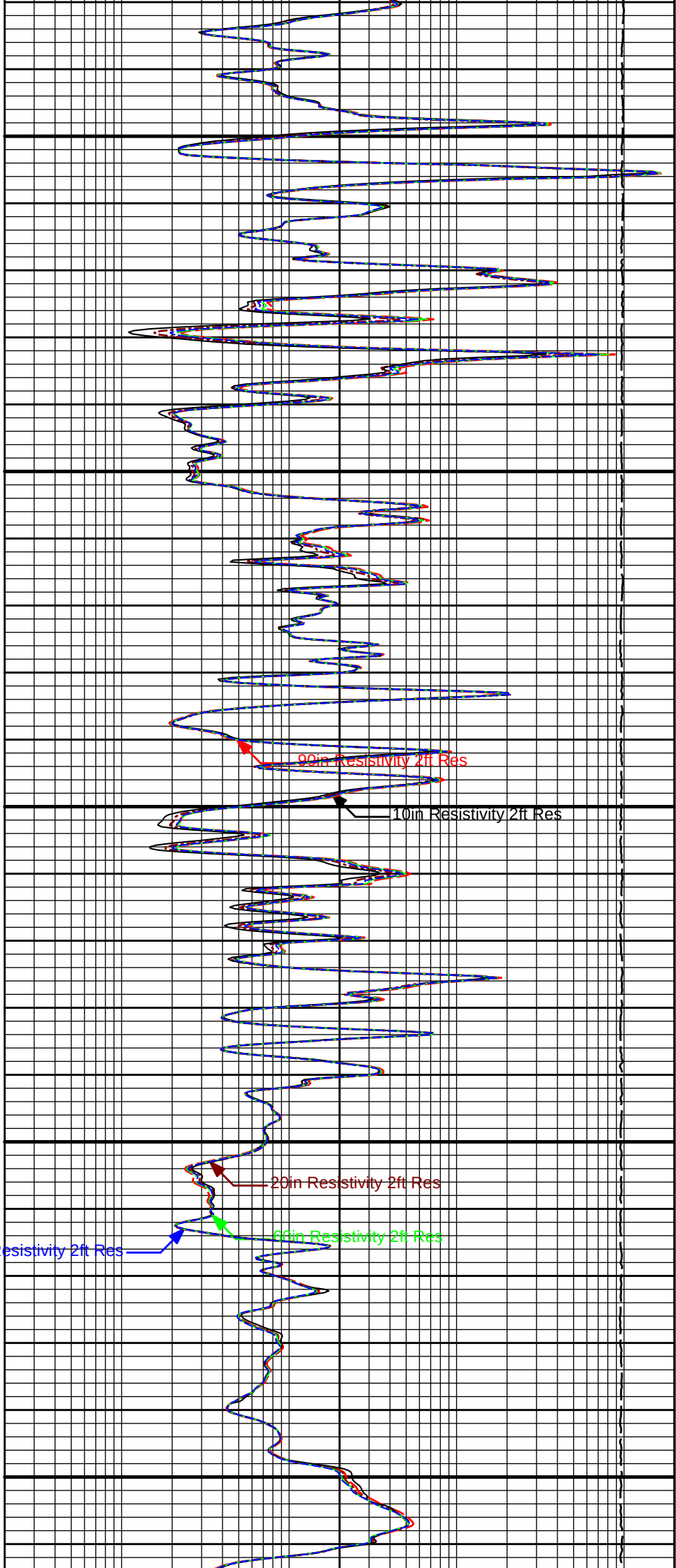


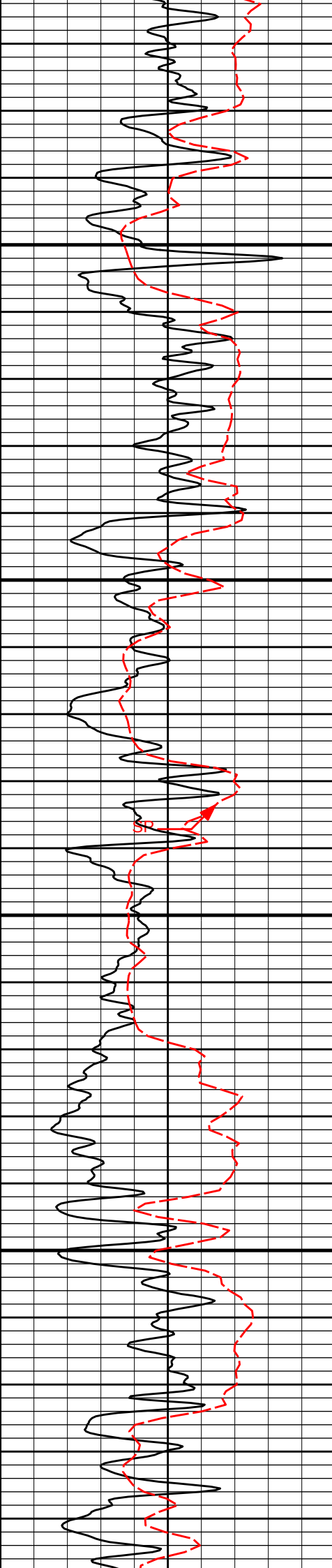


2600

SP

2700

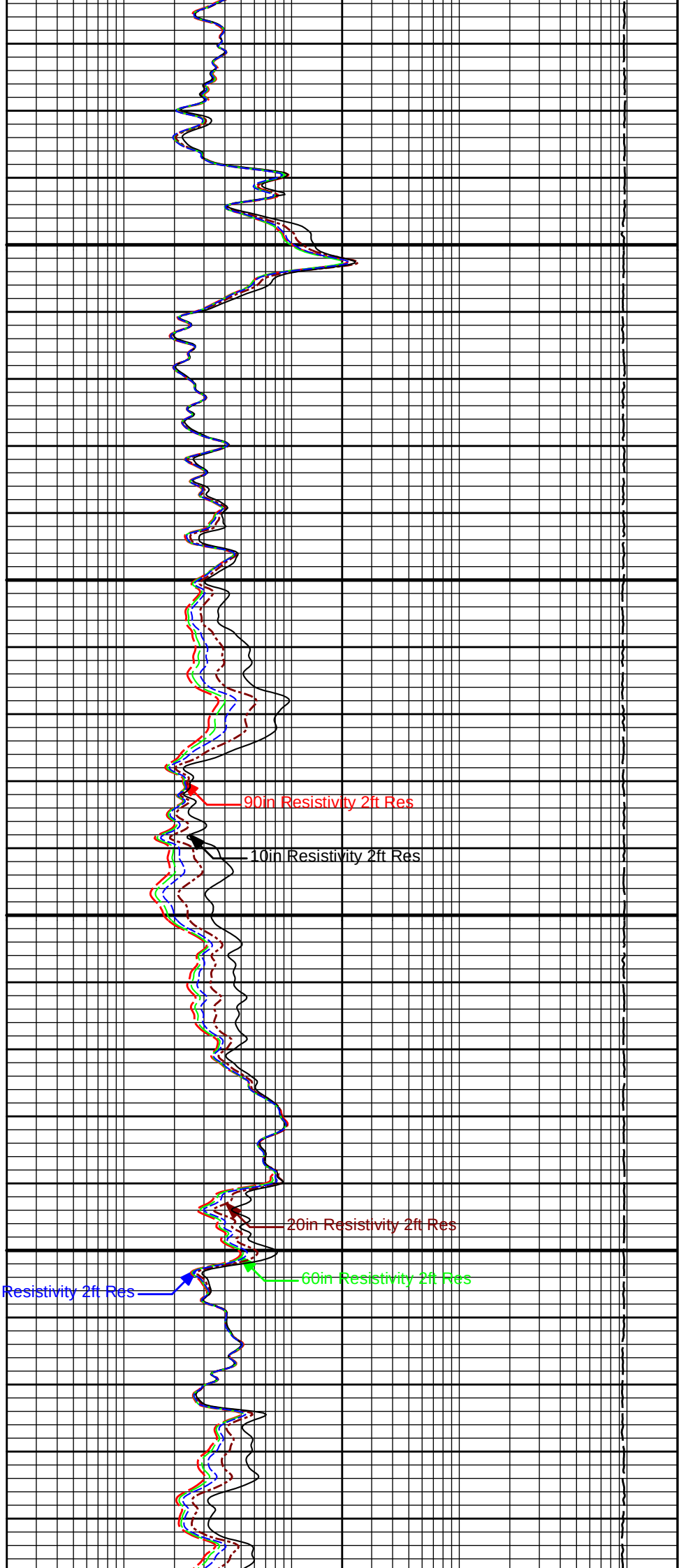




2800

2900

30in Resistivity 2ft Res

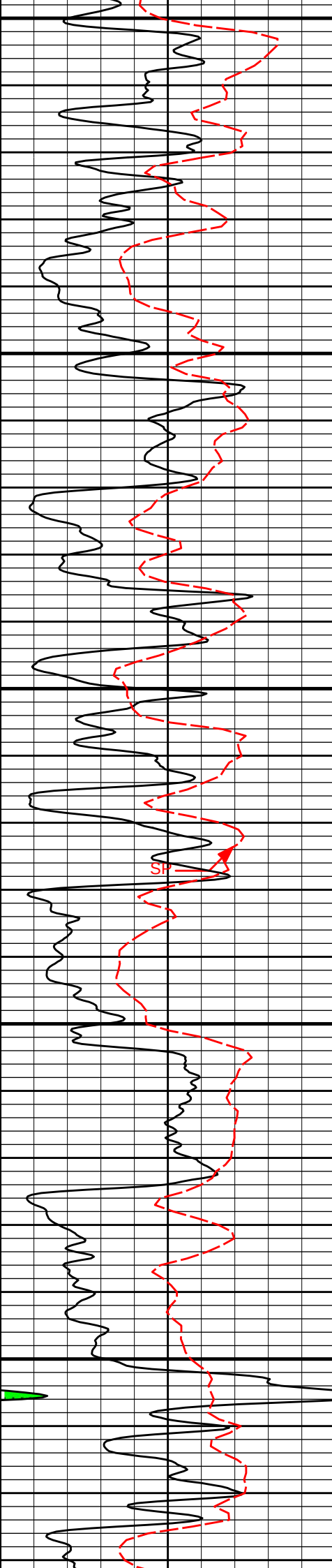


90in Resistivity 2ft Res

10in Resistivity 2ft Res

20in Resistivity 2ft Res

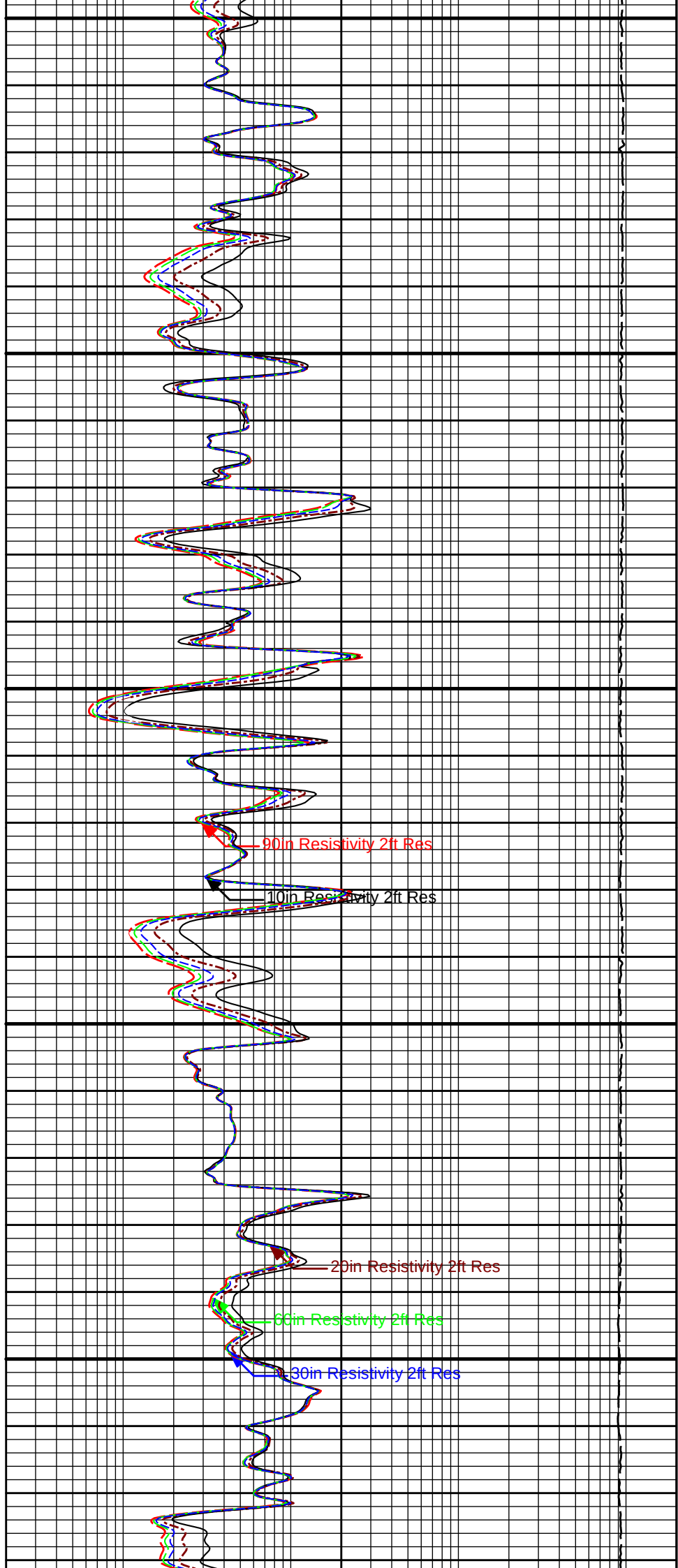
60in Resistivity 2ft Res



3000

3100

3200



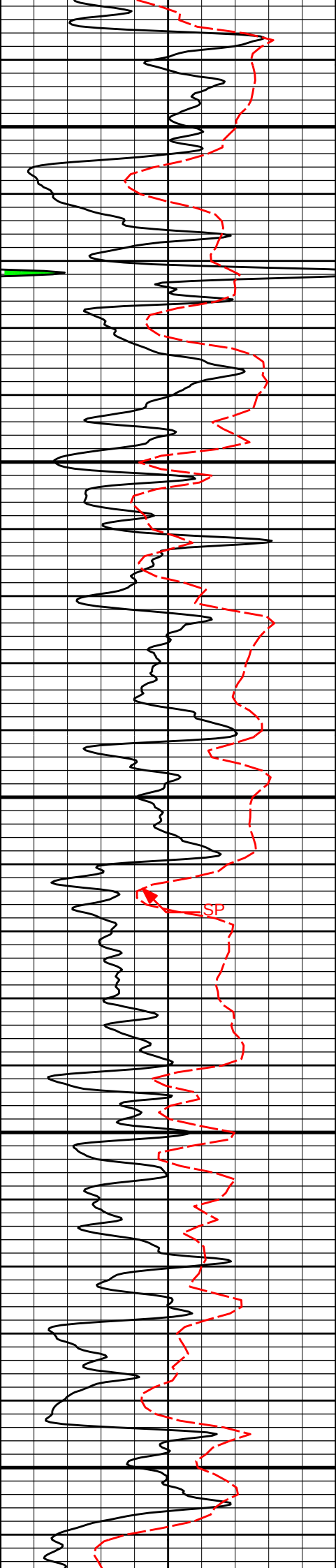
90in Resistivity 2ft Res

10in Resistivity 2ft Res

20in Resistivity 2ft Res

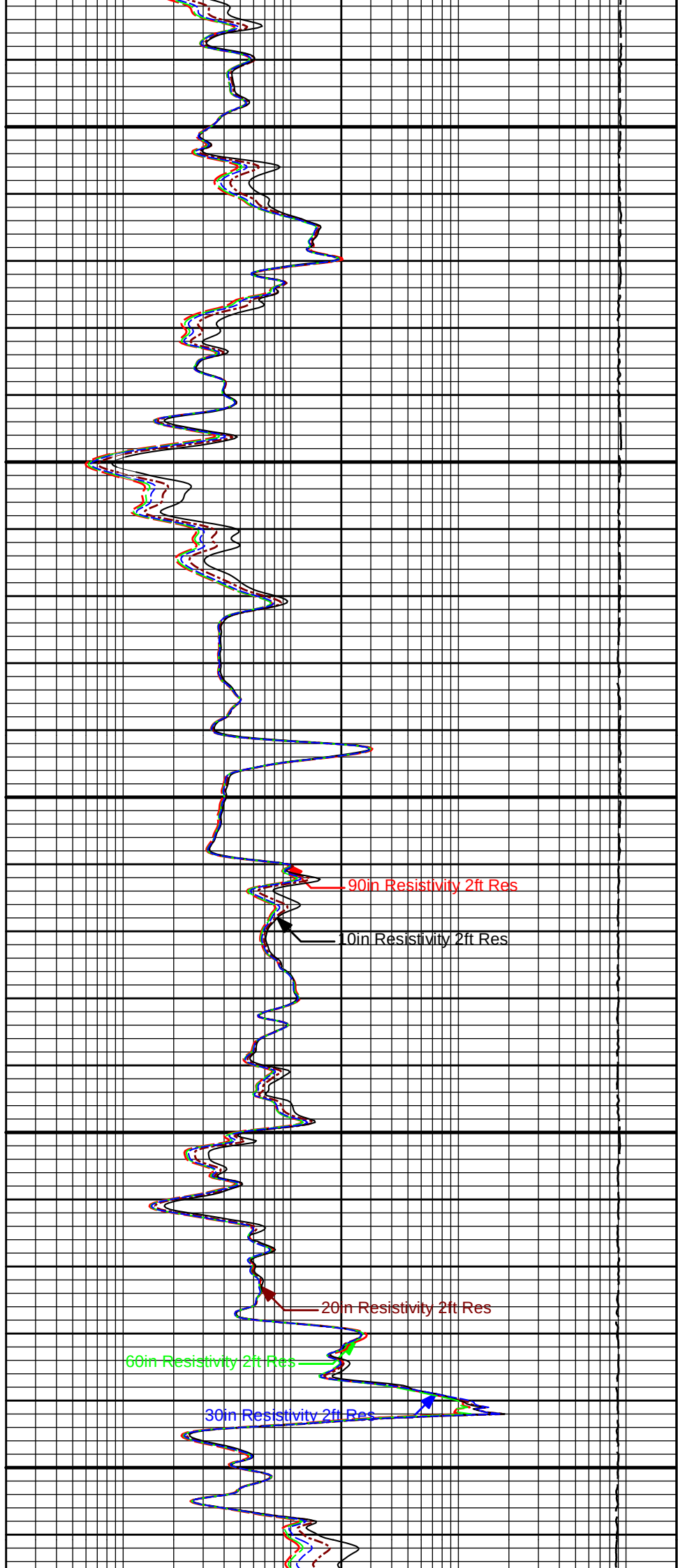
60in Resistivity 2ft Res

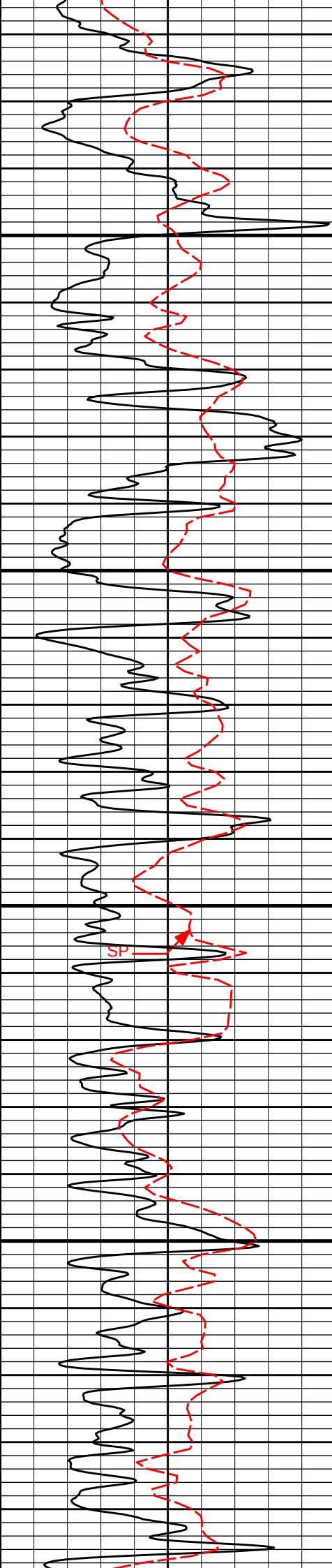
30in Resistivity 2ft Res



3300

3400

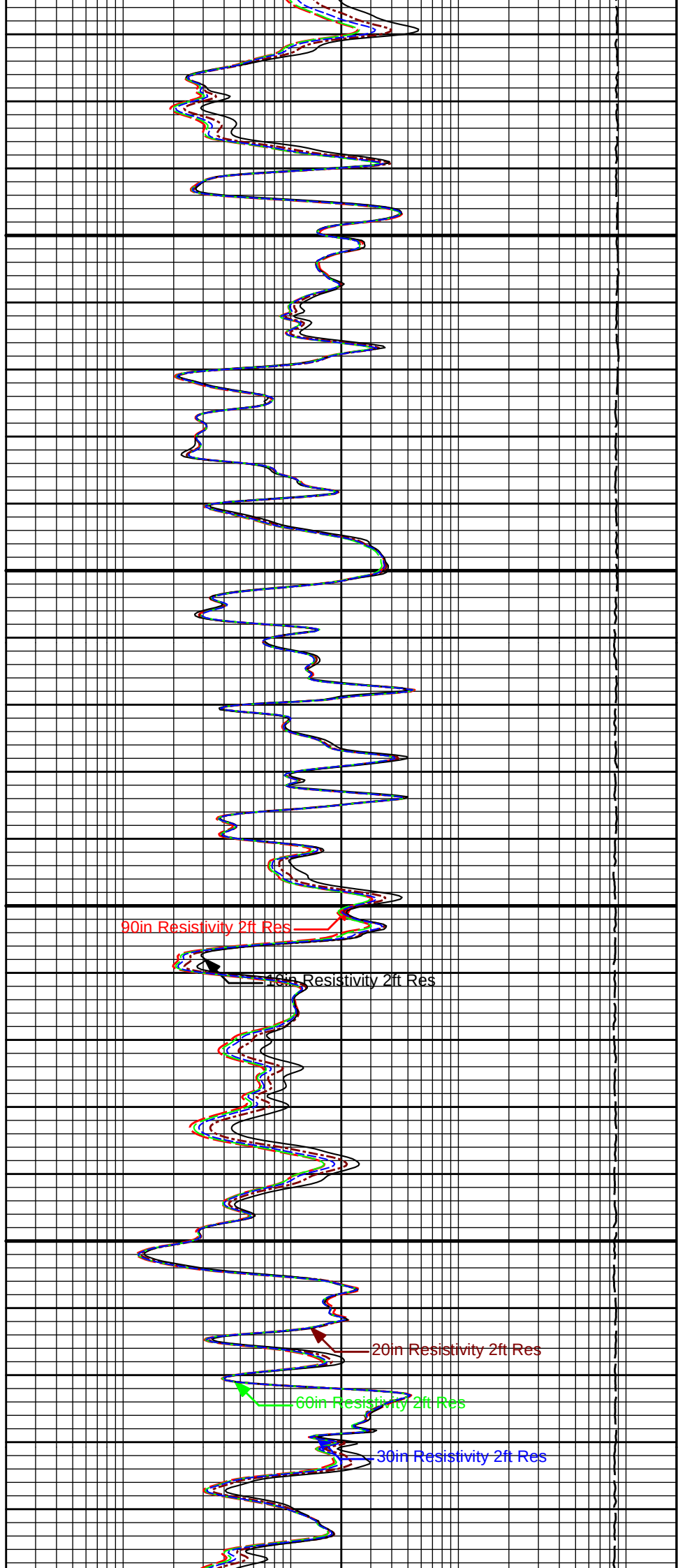




3500

3600

SP



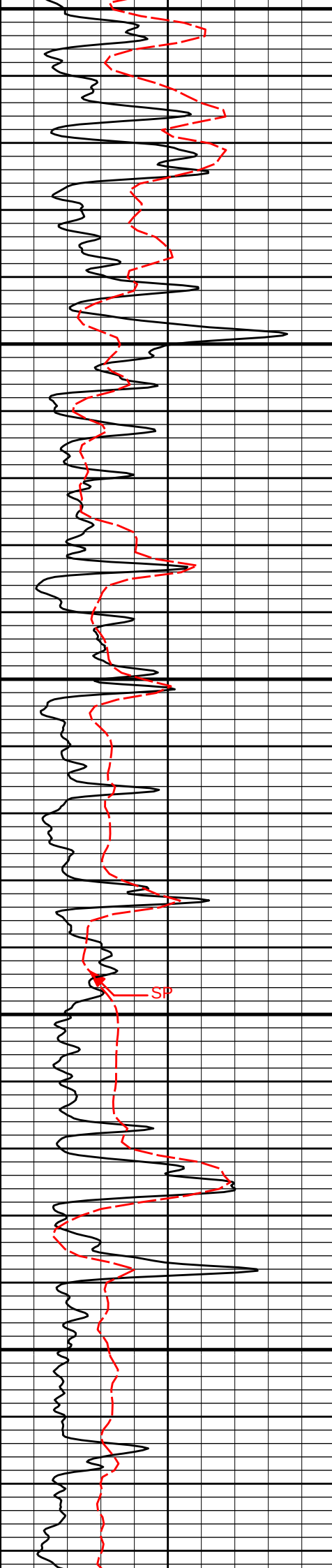
90in Resistivity 2ft Res

45in Resistivity 2ft Res

60in Resistivity 2ft Res

30in Resistivity 2ft Res

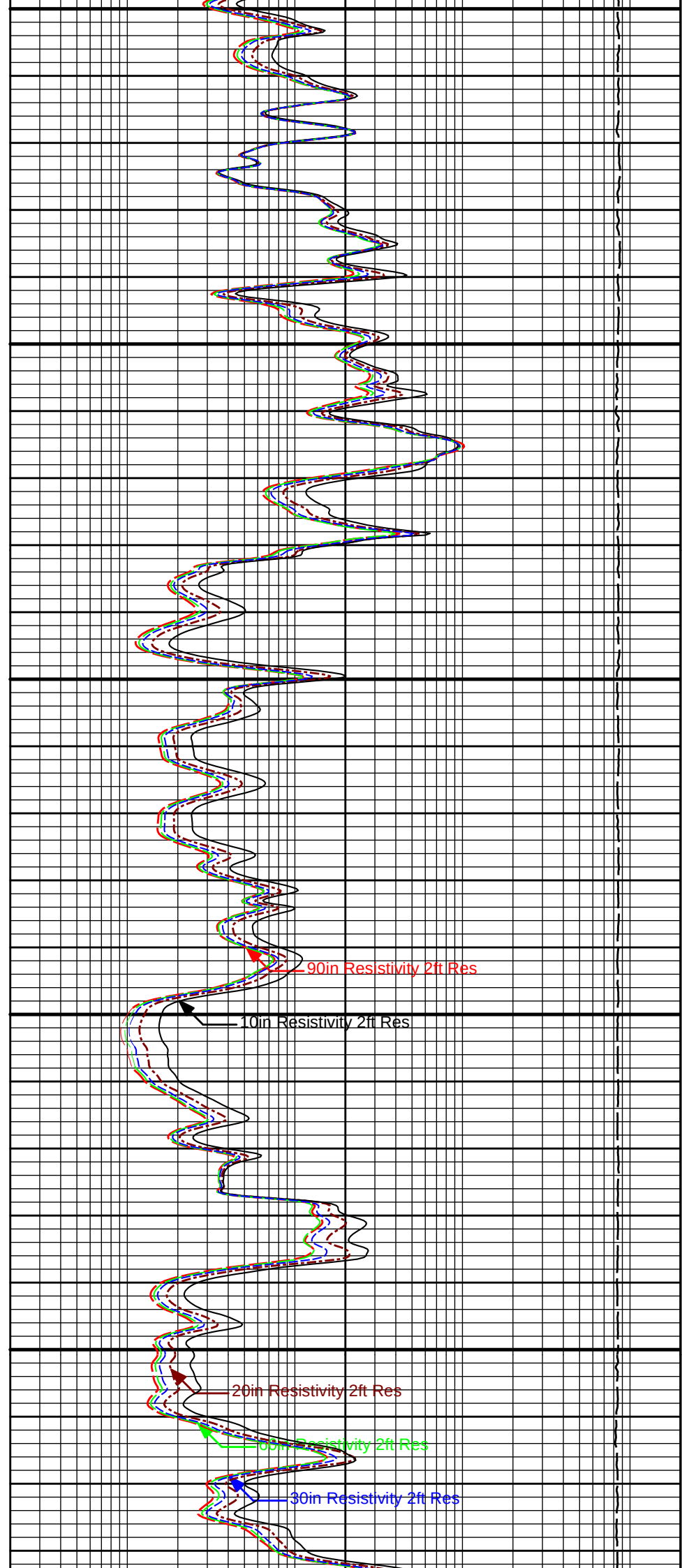
20in Resistivity 2ft Res

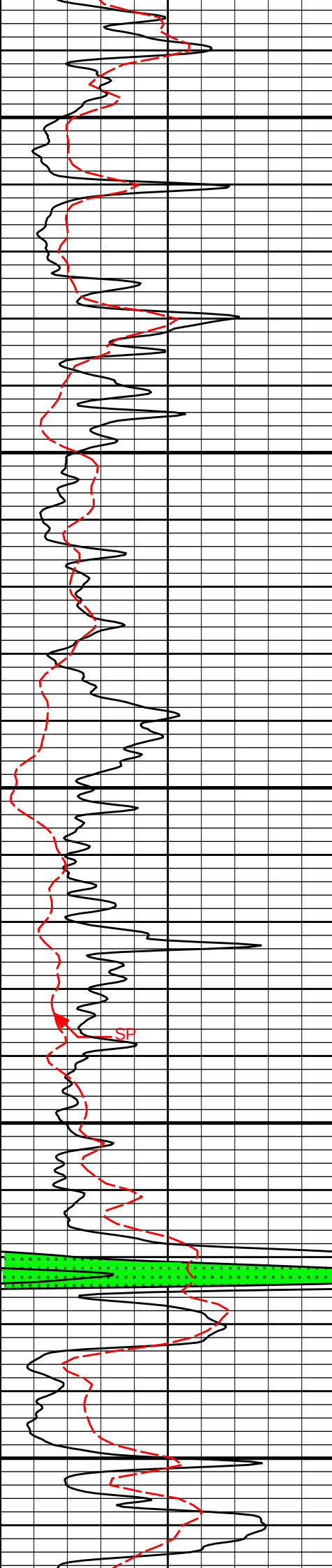


3700

3800

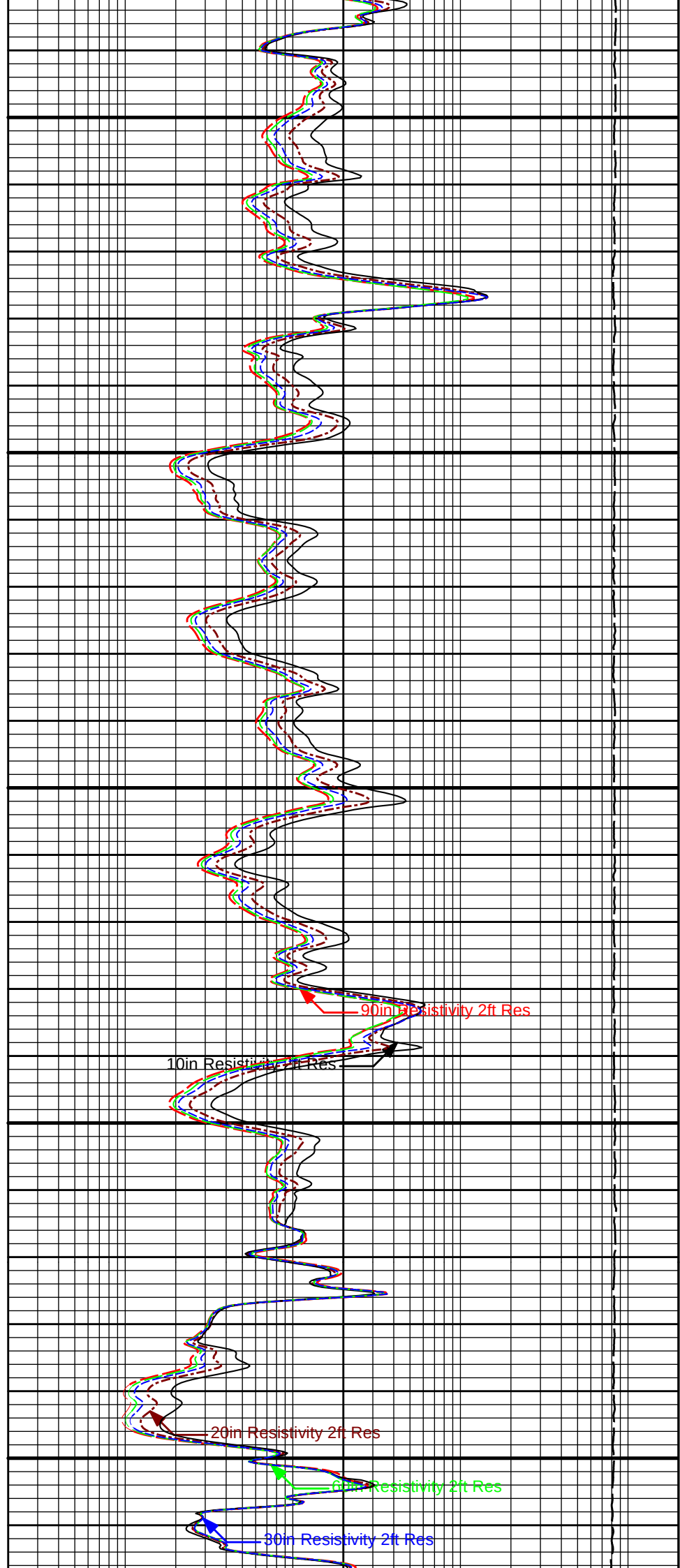
3900

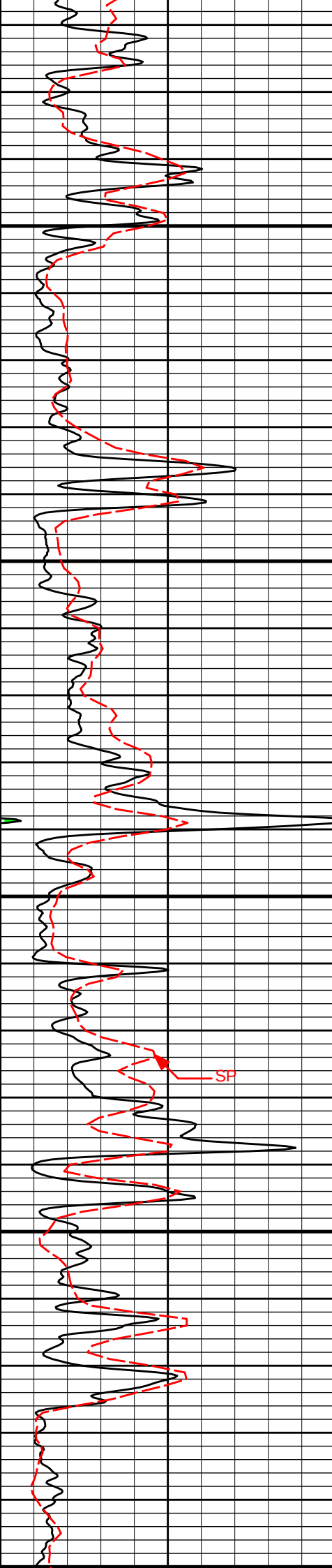




4000

4100

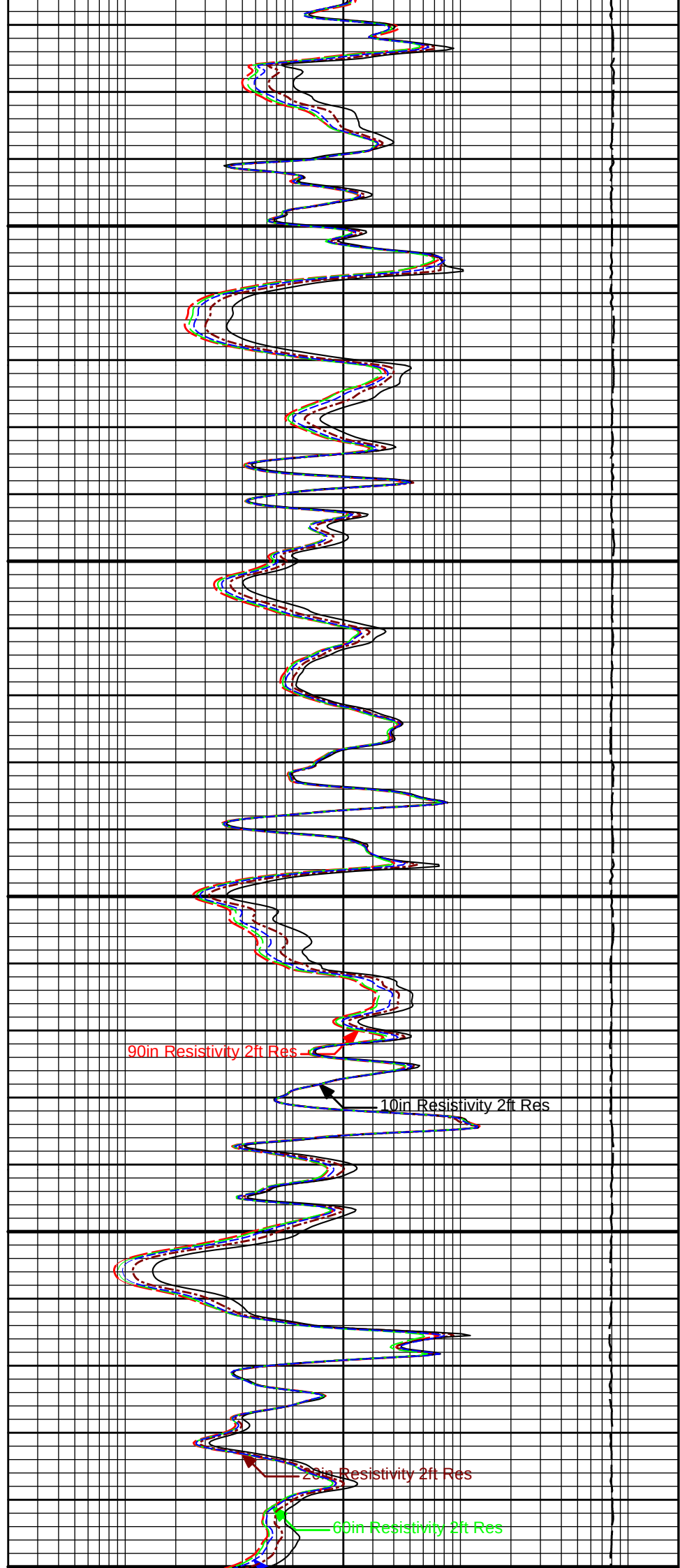


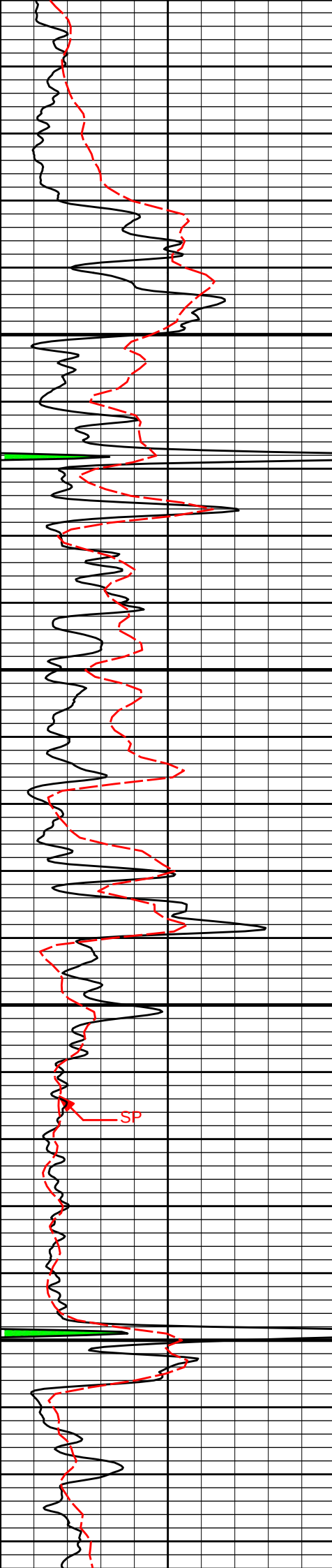


4200

4300

4100

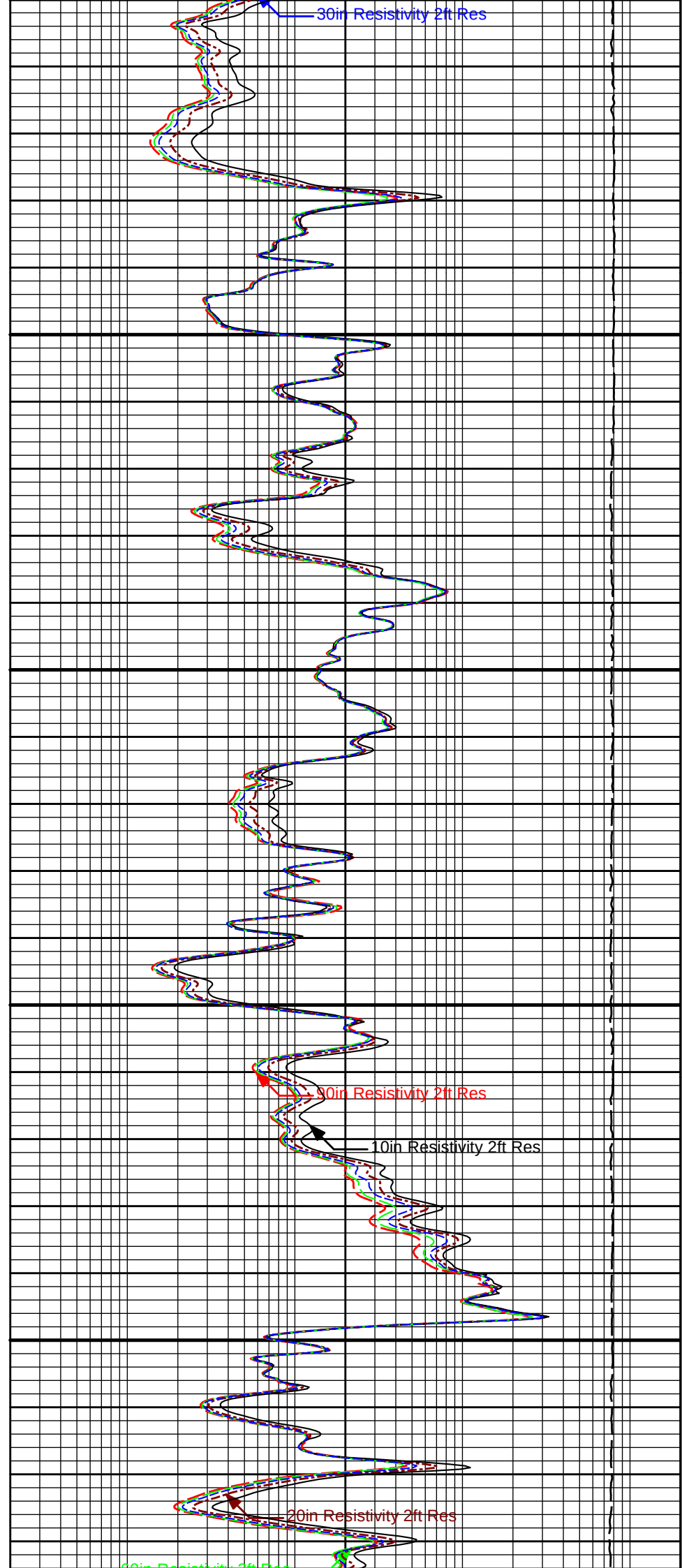


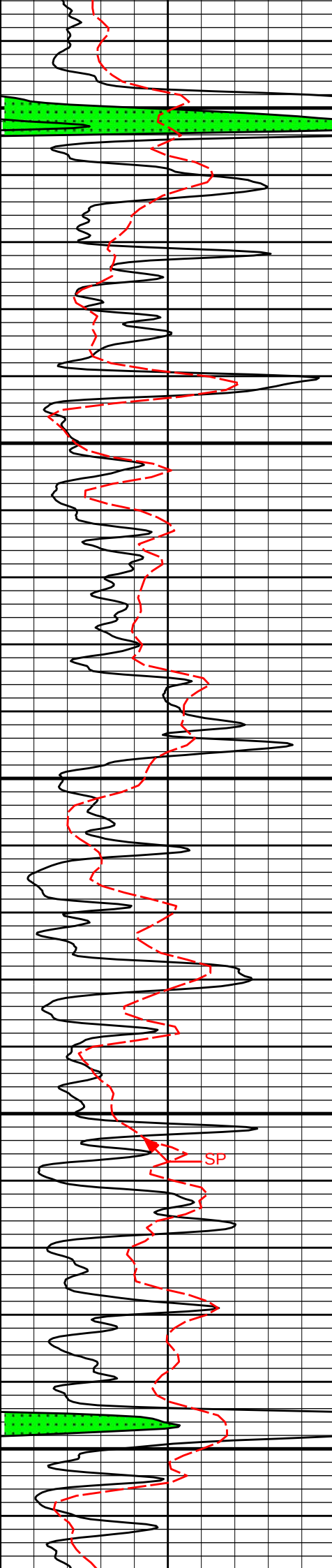


4400

4500

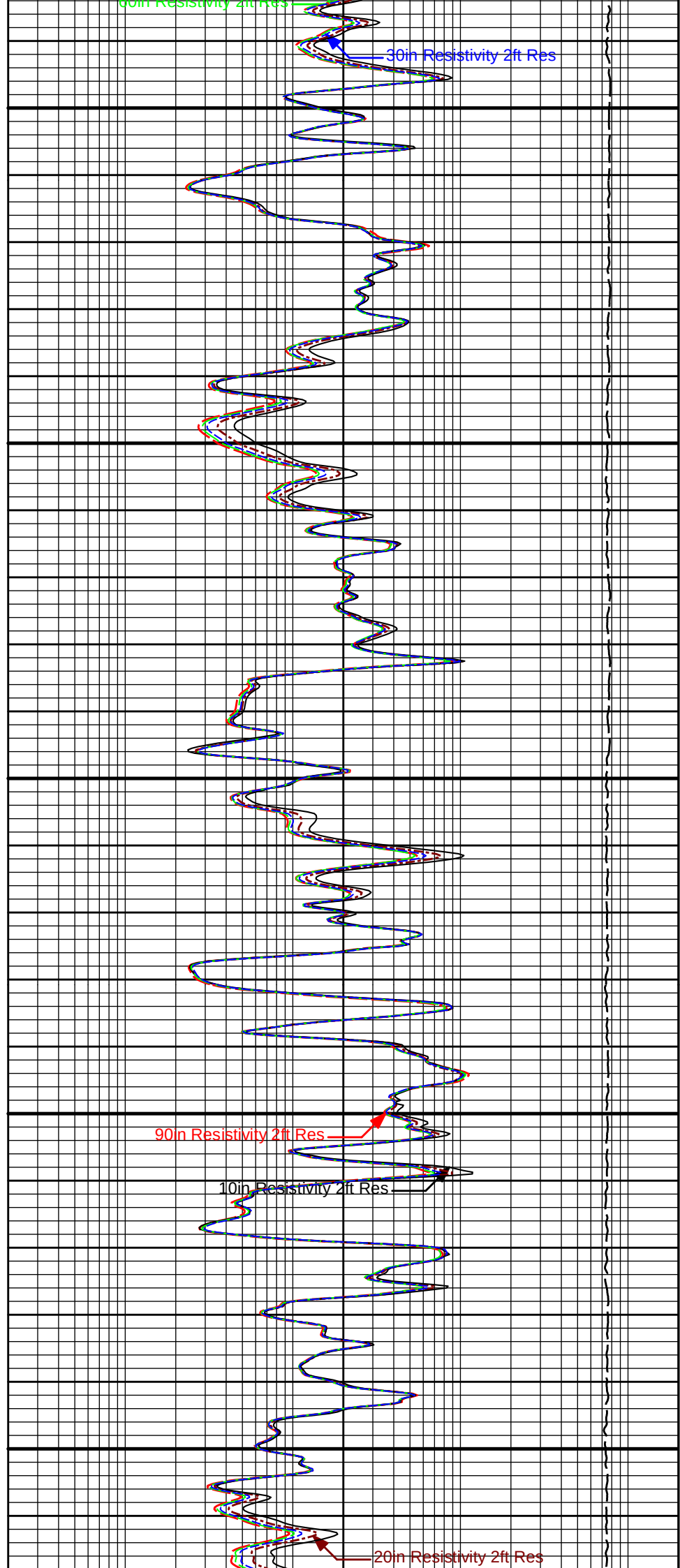
4600

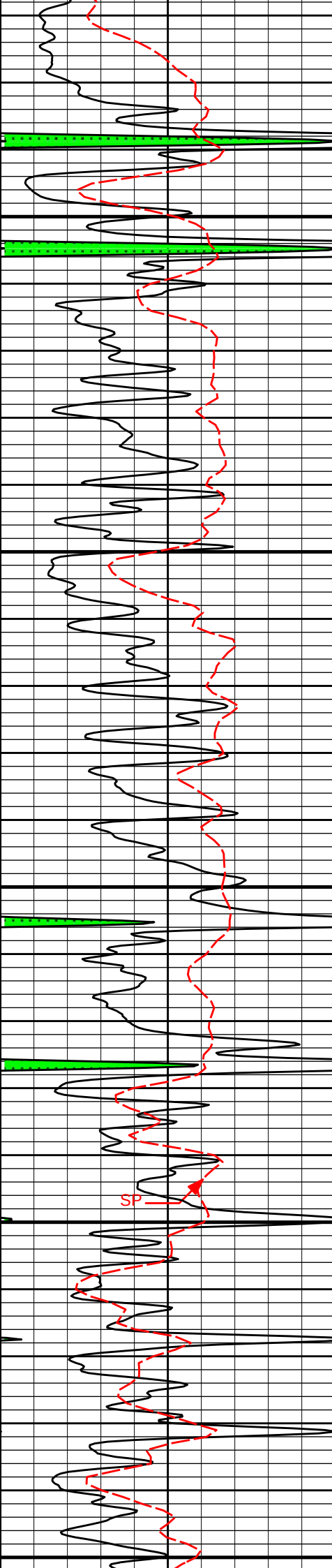




4700

4800

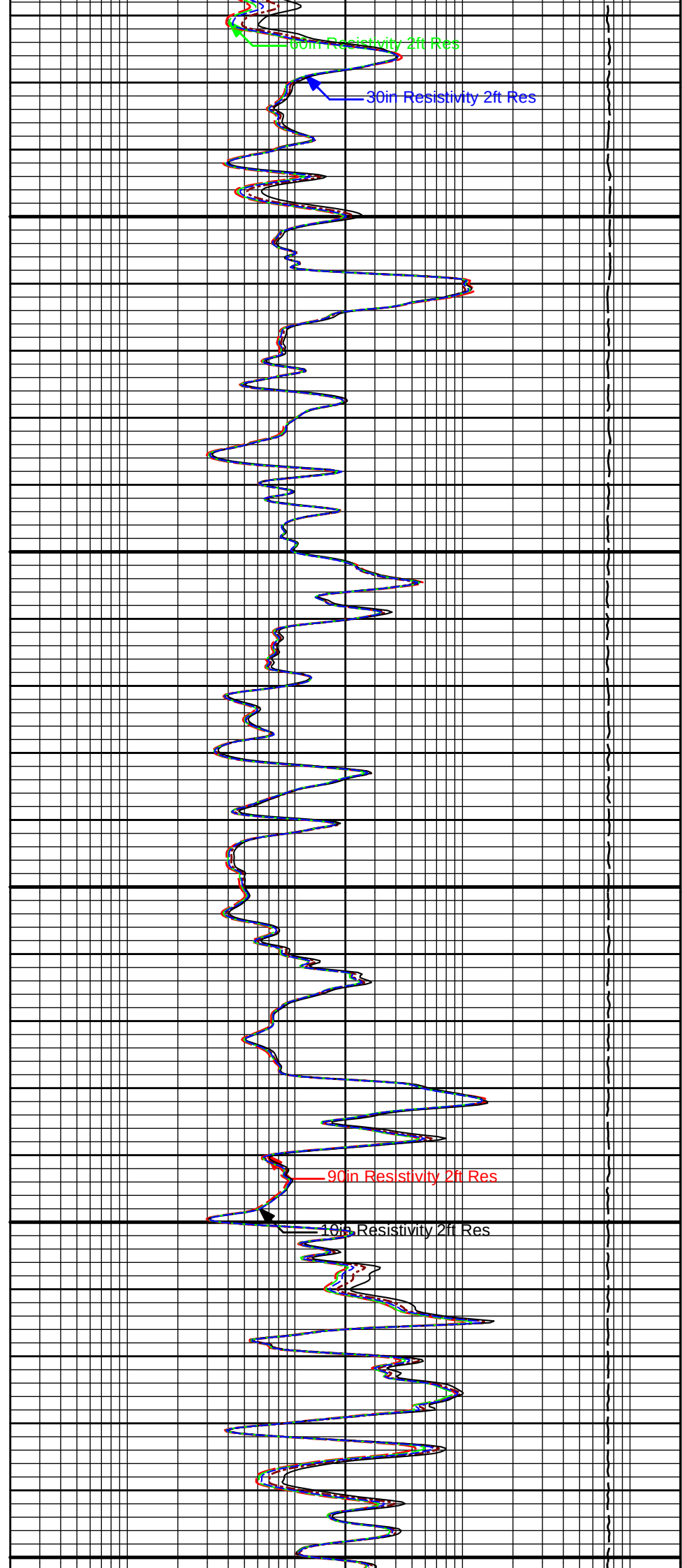


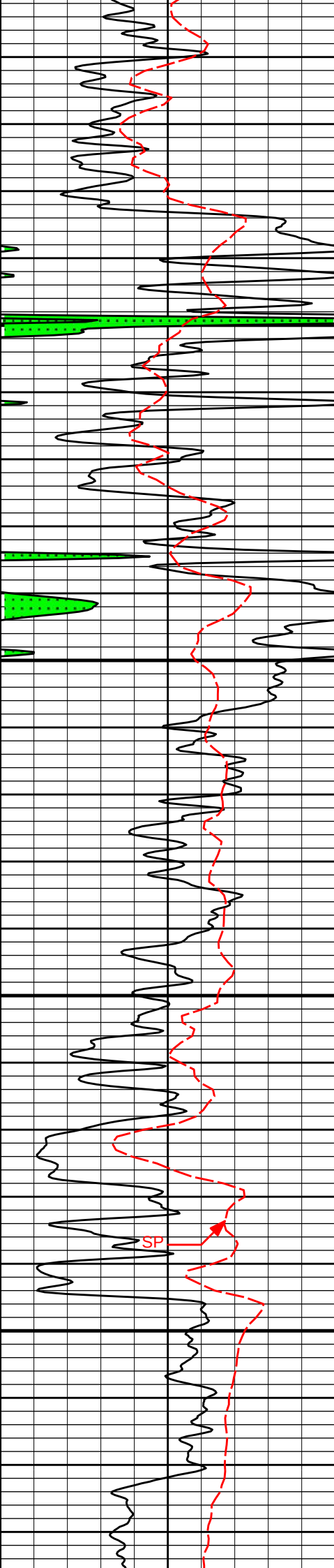


4900

5000

5100

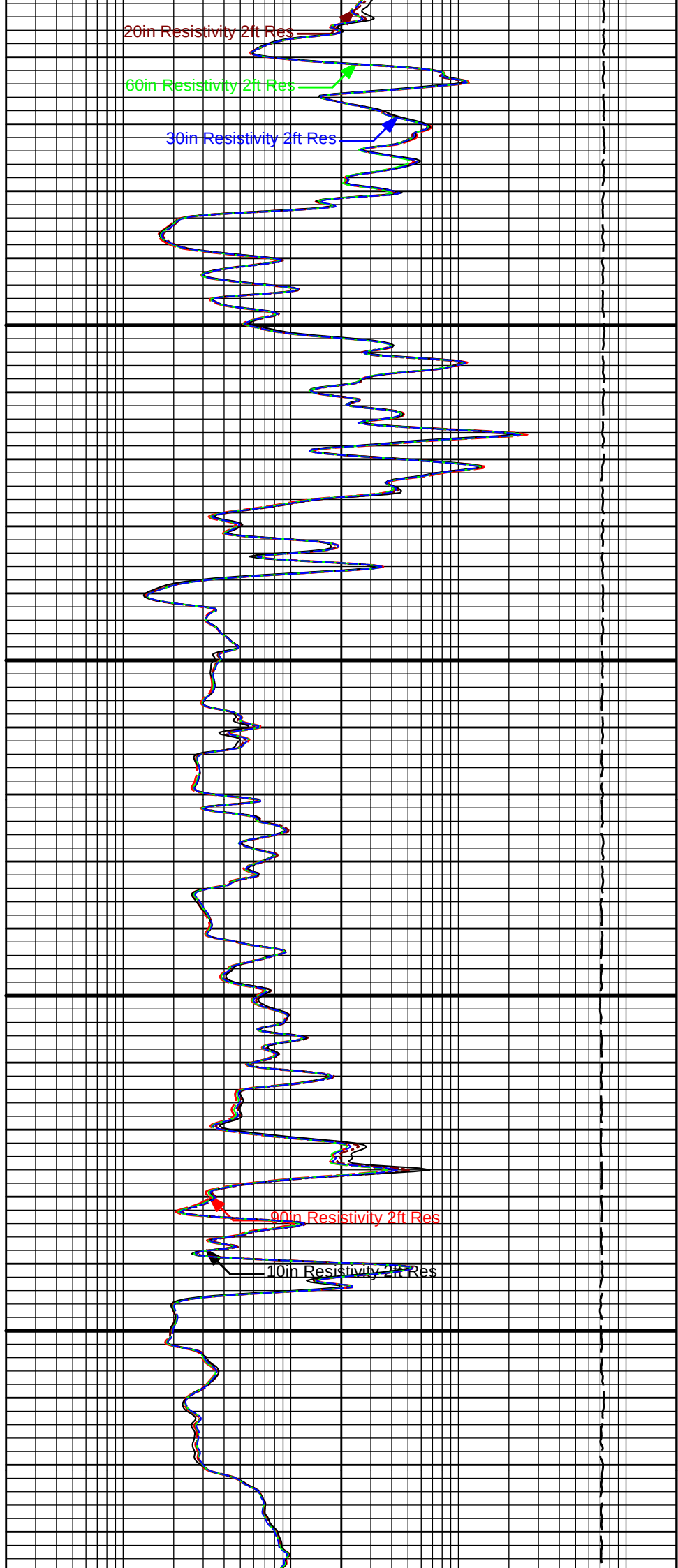


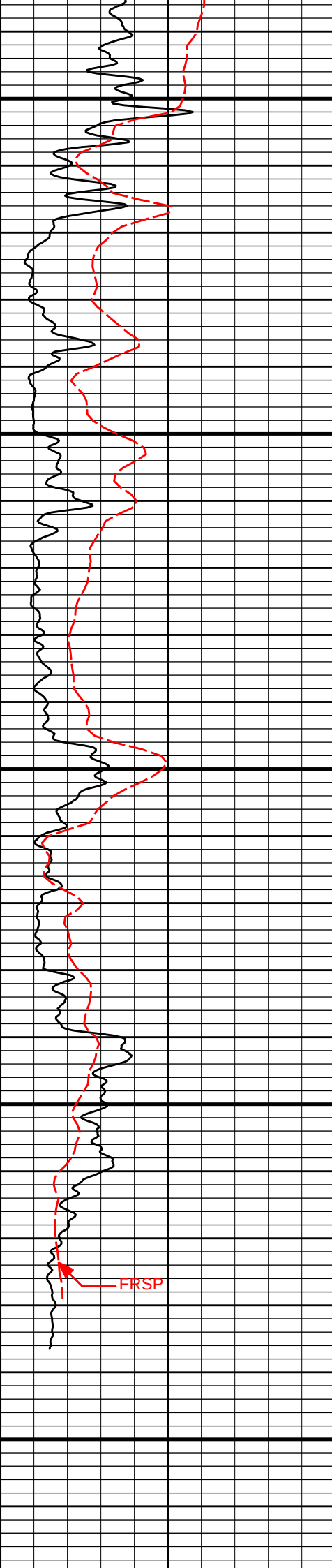


5200

SP

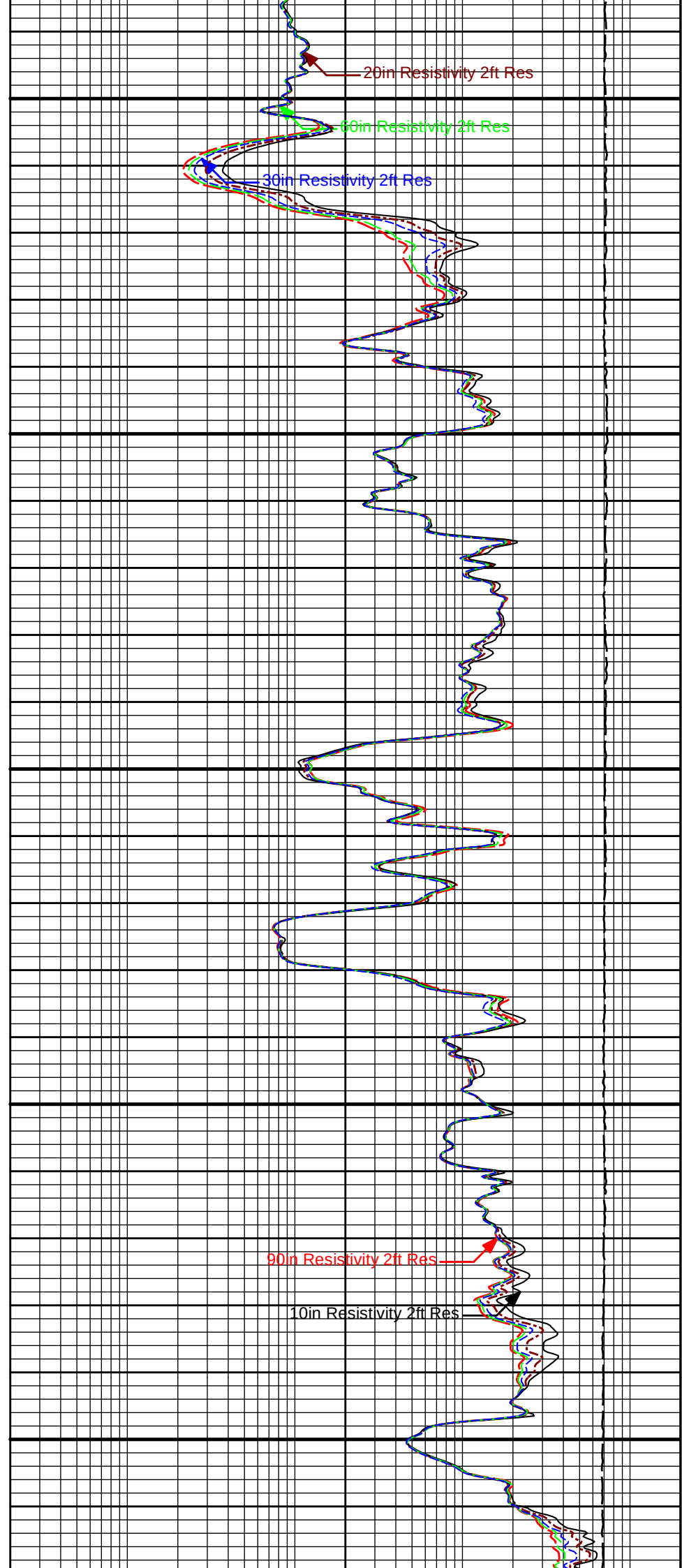
5300





5400

5500



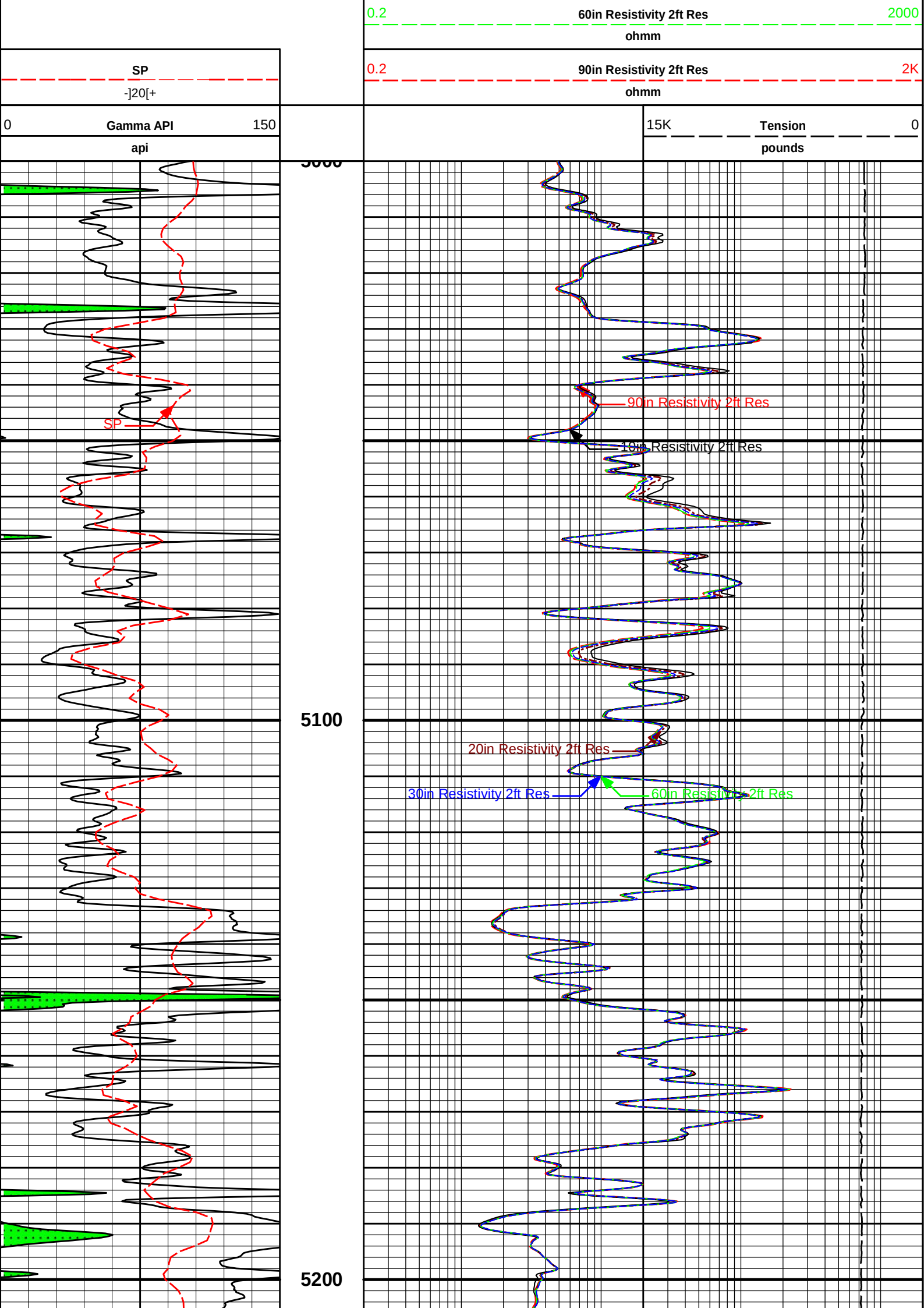
20in Resistivity 2ft Res

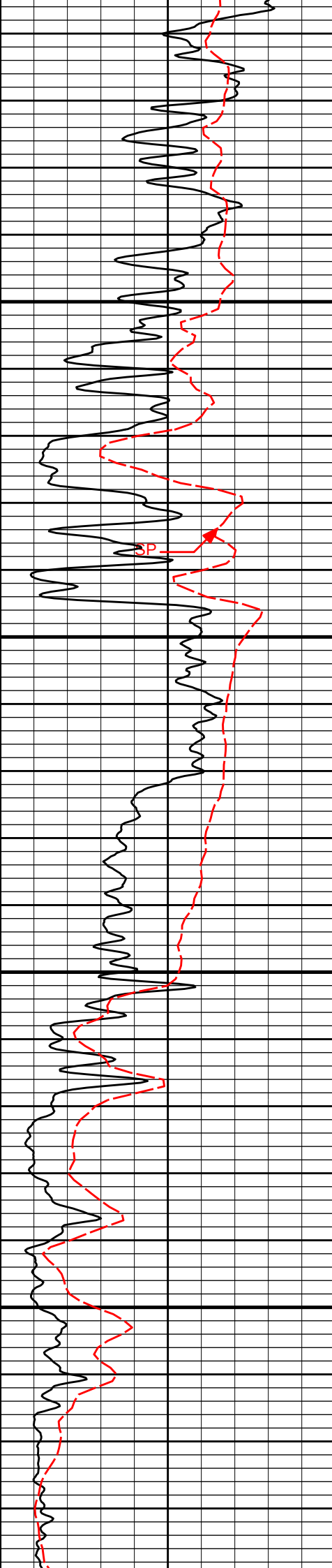
60in Resistivity 2ft Res

30in Resistivity 2ft Res

90in Resistivity 2ft Res

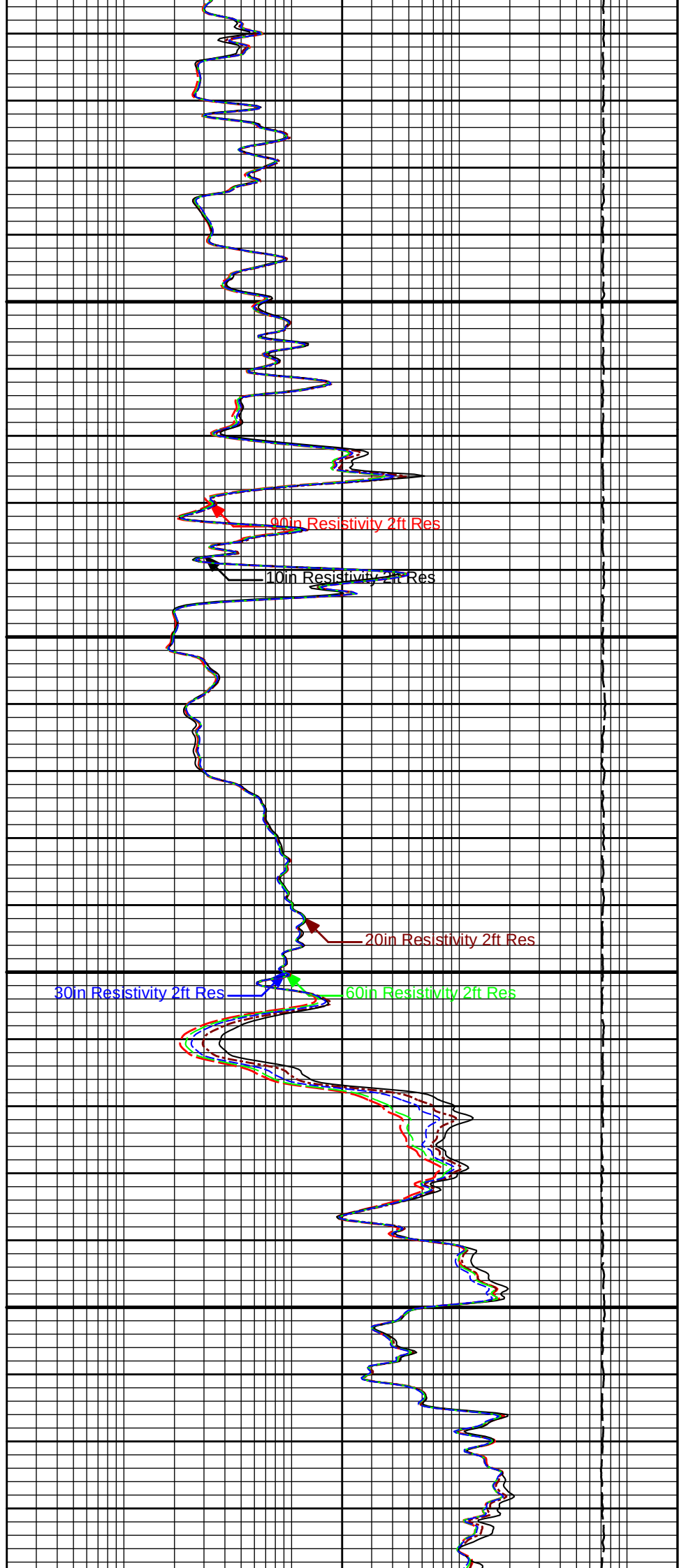
10in Resistivity 2ft Res

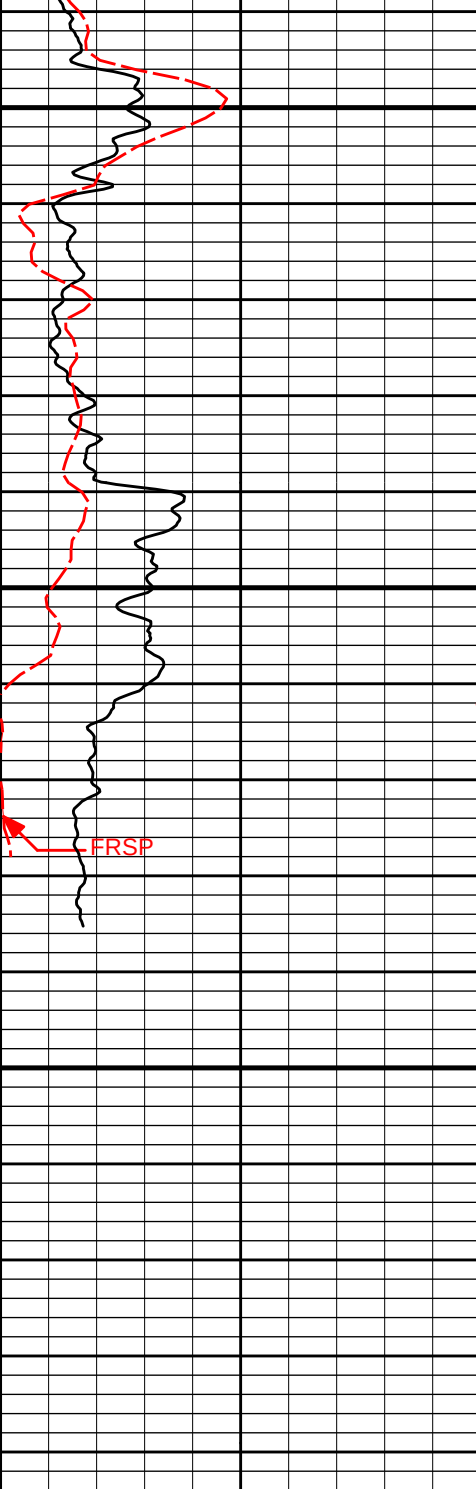




5300

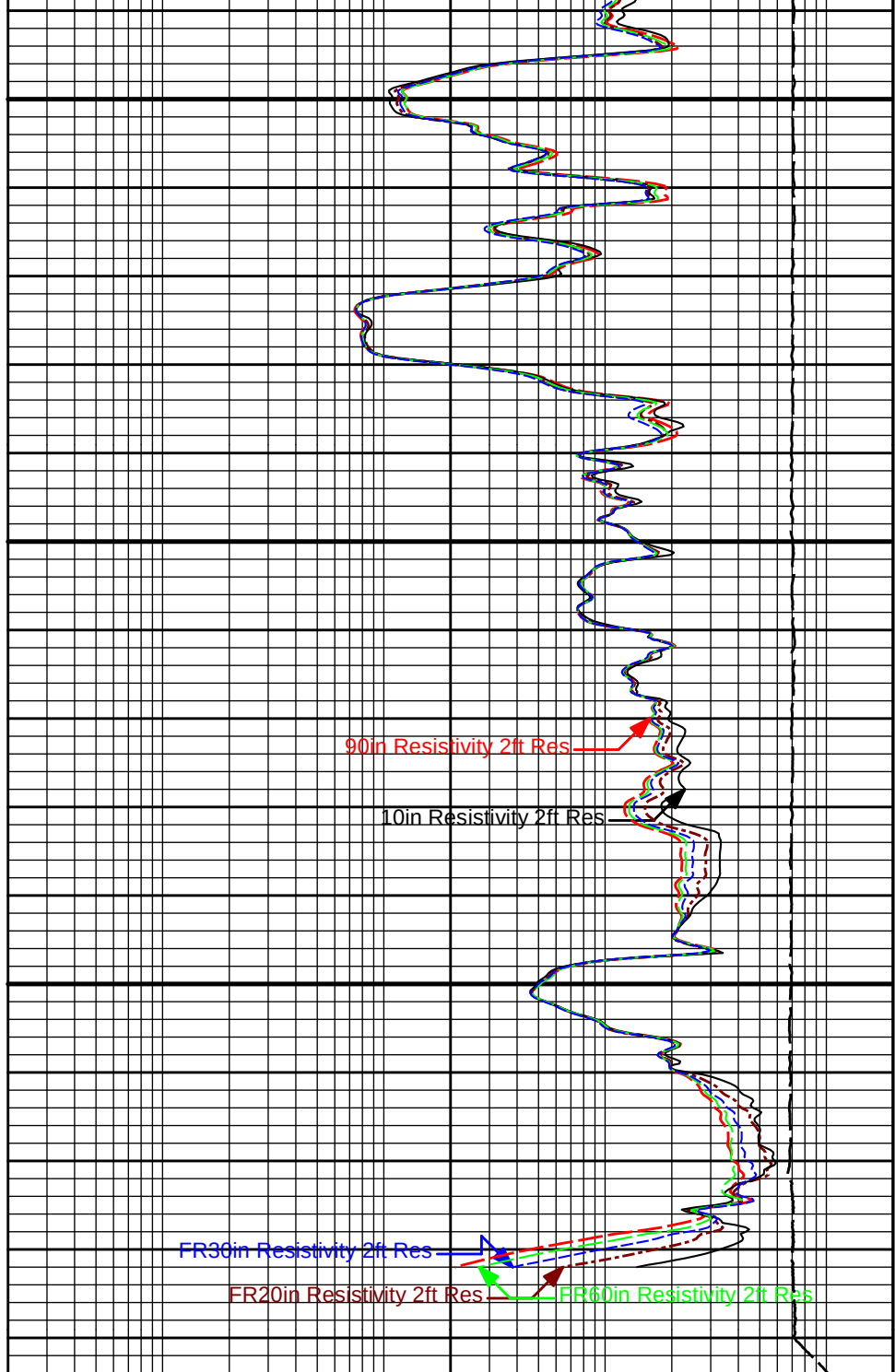
5400





5500

TD



0	Gamma API	150
	api	
	SP	
	-]20[+	

	15K	Tension	0
		pounds	
0.2	90in Resistivity 2ft Res		
	ohmm		
0.2	60in Resistivity 2ft Res		
	ohmm		
0.2	30in Resistivity 2ft Res		
	ohm-metre		
0.2	20in Resistivity 2ft Res		
	ohmm		
0.2	10in Resistivity 2ft Res		
	ohmm		

REPEAT SECTION

REPEAT SECTION

HALLIBURTON

CALIBRATION REPORT

SURFACE TENSION SHOP CALIBRATION

Tool Name:	Depth Panel - 12345678	Reference Calibration Date:	08-Feb-19 14:23:35
Engineer:	SEAN WOLTEMATH	Calibration Date:	09-Feb-19 14:35:03
Software Version:	WL INSITE R5.8.9 (Build 6)	Calibration Version:	1

SURFACE TENSION LOAD CELL

Measurement	Load Cell Value	Measurement	Calibrated	Units
Low	10112.01	-99.95	0.00	lbs
High	17473.17	7809.11	7830.00	lbs

DOWNHOLE TENSION SHOP CALIBRATION

Tool Name:	RWCH - 12345678	Reference Calibration Date:	15-Feb-19 09:39:17
Engineer:	WHITLOCK	Calibration Date:	28-Feb-19 22:32:40
Software Version:	WL INSITE R5.8.9 (Build 6)	Calibration Version:	1

DOWNHOLE LOAD CELL

Measurement	Tool Value	Measurement	Calibrated	Units
Low	-224.15	43.98	0.00	lbs
High	18145.12	13233.32	2450.00	lbs

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name:	GTET - 11013113	Reference Calibration Date:	14-Dec-18 10:17:09
Engineer:	WHITLOCK	Calibration Date:	25-Feb-19 14:17:44
Software Version:	WL INSITE R5.8.9 (Build 6)	Calibration Version:	1

Calibrator Source S/N: TB-79
Calibrator API Reference:222.00 api
Equivalent Calibrator API Reference:225.9 api

Measurement	Measured	Calibrated	Units
Background	23.4	24.2	api
Background + Calibrator	241.5	250.1	api
Calibrator	218.1	225.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name:	GTET - 11013113	Reference Calibration Date:	25-Feb-19 14:17:44
Engineer:	WHITLOCK	Calibration Date:	04-Mar-19 15:12:41
Software Version:	WL INSITE R6.0.2 (Build 8)	Calibration Version:	1

Calibrator Source S/N: TB-79
Calibrator API Reference:222.00 api
Equivalent Calibrator API Reference:225.9 api

Field Verification	Shop	Field	Units
Background	24.2	22.5	api
Background + Calibrator	250.1	250.5	api
Calibrator	225.9	222.9	api

Shop		Field		Difference		Tolerance	
225.9		228.0		-2.1		+/- 9.00	

DUAL SPACED NEUTRON SHOP CALIBRATION

Tool Name: DSNT - 11019641

Reference Calibration Date: 07-Nov-18 10:07:09

Engineer: WHITLOCK

Calibration Date: 14-Feb-19 10:28:24

Software Version: WL INSITE R5.8.9 (Build 6)

Calibration Version: 1

Logging Source S/N: DSN-436
Tank Serial Number: EL RENO HWT
Reference value assigned to Tank: 56.100
Snow Block S/N: 12156883
Calibration Tank Water Temperature: 63 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS

Measurement	Prev. Value	New Value	Control Limit On New Value	
Gain:	0.98053	0.98060	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):	0.2357	0.2358	0.0000	+/- 0.0020
Calibrated Ratio:	10.5587	10.5594	0.001	+/- 0.050

VERIFIER

Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0629	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: 14-Feb-19 10:28:24

Engineer: WHITLOCK

Calibration Date: 04-Mar-19 15:20:57

Software Version: WL INSITE R5.8.9 (Build 6)

Calibration Version: 1

Logging Source S/N: DSN-436
Snow Block S/N: 12156883

NEUTRON FIELD-CHECK SUMMARY

	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0629	0.0629	-0.0001	+/- 0.0150

PASS/FAIL SUMMARY

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

DENSITY CALIPER SHOP CALIBRATION

Tool Name: SDLT - 10960494

Reference Calibration Date: 01-Jan-70 00:00:00

Engineer: SEAN WOLTEMATH

Calibration Date: 28-Dec-18 10:43:24

Software Version: WL INSITE R5.6.3 (Build 4)

Calibration Version: 1

CALIBRATION COEFFICIENTS

Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3977.11	-3977.11	-7000.00 - -1000.00
Pad Gain	0.0003897	0.0003897	0.0002000 - 0.0006000
Arm Offset	-3073.13	-3073.13	-5000.00 - 3000.00
Arm Gain	0.0005210	0.0005210	0.000300 - 0.000700
Arm Power	-0.000005094	-0.000005094	-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)	2.00	2.00	0.00	+/- 0.20
Medium Ring (in)	3.75	3.75	0.00	+/- 0.20
RING DIAMETER:				
Small Ring (in)	6.50	6.50	0.00	+/- 0.20
Medium Ring (in)	8.25	8.25	0.00	+/- 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
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SDLT CALIPER FIELD CALIBRATION

Tool Name:	SDLT - 10960494	Reference Calibration Date:	28-Dec-18 10:43:24
Engineer:	WHITLOCK	Calibration Date:	04-Mar-19 13:23:29
Software Version:	WL INSITE R5.6.3 (Build 4)	Calibration Version:	1

MEASURED CALIPER VALUES

Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.79	0.04	+/- 0.10
Ring Diameter	8.25	8.25	-0.00	+/- 0.15

PASS/FAIL SUMMARY

Pad Extension Check:	Passed
Diameter Check:	Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name:	ACRt Sonde - 11830728	Reference Calibration Date:	06-Jul-18 13:24:46
Engineer:	WHITLOCK	Calibration Date:	31-Oct-18 14:22:50
Software Version:	WL INSITE R5.8.9 (Build 6)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 11830684		

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0279	1.05	0.95	1.0076	1.05	0.95	0.9997	1.05
A2 (50")	0.95	1.0334	1.05	0.95	1.0139	1.05	0.95	1.0097	1.05
A3 (29")	0.95	1.0346	1.05	0.95	1.0146	1.05	0.95	1.0081	1.05
A4 (17")	0.95	1.0279	1.05	0.95	1.0063	1.05	0.95	1.0018	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0001	1.05	0.95	0.9950	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9999	1.05	0.95	0.9919	1.05

A6 (6")	N/A	N/A	N/A	0.95	0.9869	1.05	0.95	0.9818	1.05
SONDE OFFSET									
Subarray	R12KHz		R36KHz		R72KHz				
	(mmho/m)		(mmho/m)		(mmho/m)				
A1 (80")	0.315		-4.964		-5.711				
A2 (50")	0.409		-3.450		-5.485				
A3 (29")	-11.648		-3.720		-3.783				
A4 (17")	-90.980		-28.724		-23.707				
A5 (10")	N/A		-76.200		-37.537				
A6 (6")	N/A		280.488		149.005				
TRANSMITTER CURRENT GAIN									
Signal	Lower	R	Upper	R-MUD VERIFICATION					
				Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)		
12K	0.6	0.82	1.3	Mud Cell	0.95	0.99	1.05		
36K	1.0	1.80	2.0						
72K	1.0	1.05	2.0						
PASS/FAIL SUMMARY									
GAIN RANGE CHK				PASS					
SONDE OFFSET CHK				PASS					
TOOL OK TO LOG									

QUALITY CHECK SHOP CALIBRATION			
Tool Name:	ACRt Sonde - 11830728	Reference Calibration Date:	06-Jun-18 14:01:20
Engineer:	WHITLOCK	Calibration Date:	31-Oct-18 14:33:20
Software Version:	WL INSITE R5.8.9 (Build 6)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 11830684		

STANDARD DEVIATIONS									
	R12KHz			R36KHz			R72KHz		
	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail
A1 (80")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass
A2 (50")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass
A3 (29")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass
A4 (17")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass
A5 (10")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass
A6 (6")	0.000	< 0.750	Pass	0.000	< 0.750	Pass	0.000	< 0.750	Pass

	AVERAGES								
	R12KHz			R36KHz			R72KHz		
	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail	Measured (mmho/m)	Expected (mmho/m)	Pass/Fail
A1 (80")	0.000	< 0.500	Pass	-0.001	> -0.500	Pass	-0.006	> -0.500	Pass
A2 (50")	0.000	< 0.500	Pass	-0.001	> -0.500	Pass	-0.005	> -0.500	Pass
A3 (29")	-0.000	< 0.500	Pass	-0.001	> -0.500	Pass	-0.003	> -0.500	Pass
A4 (17")	-0.002	> -0.500	Pass	-0.006	> -0.500	Pass	-0.022	> -0.500	Pass
A5 (10")	-0.010	> -0.500	Pass	-0.017	> -0.500	Pass	-0.036	> -0.500	Pass
A6 (6")	0.014	< 0.500	Pass	0.063	< 0.500	Pass	0.138	< 0.500	Pass

GAIN TOLERANCE	
R12KHz	
Measured	Test Method
	Diff
	End

	Measured (mmho/m)	Last Month (mmho/m)	Difference (mmho/m)	Tolerance (mmho/m)	Pass/Fail
A1 (80")	-213173456.000	-213653808.000	480352.000	10682690.400	Pass
A2 (50")	-205651744.000	-206143280.000	491536.000	10307164.000	Pass
A3 (29")	-200817664.000	-201197776.000	380112.000	10059888.800	Pass
A4 (17")	-200193568.000	-200629872.000	436304.000	10031493.600	Pass
A5 (10")	-200252336.000	-200678960.000	426624.000	10033948.000	Pass
A6 (6")	-199820688.000	-200219344.000	398656.000	10010967.200	Pass
R36KHz					
	Measured (mmho/m)	Last Month (mmho/m)	Difference (mmho/m)	Tolerance (mmho/m)	Pass/Fail
A1 (80")	48114080.000	48477272.000	363192.000	2423863.600	Pass
A2 (50")	33966292.000	34324412.000	358120.000	1716220.600	Pass
A3 (29")	28032378.000	28346680.000	314302.000	1417334.000	Pass
A4 (17")	27853682.000	28207516.000	353834.000	1410375.800	Pass
A5 (10")	27373208.000	27716930.000	343722.000	1385846.500	Pass
A6 (6")	26035236.000	26360300.000	325064.000	1318015.000	Pass
R72KHz					
	Measured (mmho/m)	Last Month (mmho/m)	Difference (mmho/m)	Tolerance (mmho/m)	Pass/Fail
A1 (80")	-92927656.000	-93022904.000	95248.000	4651145.200	Pass
A2 (50")	-90501024.000	-90617752.000	116728.000	4530887.600	Pass
A3 (29")	-88192472.000	-88292832.000	100360.000	4414641.600	Pass
A4 (17")	-88397088.000	-88515880.000	118792.000	4425794.000	Pass
A5 (10")	-86957704.000	-87076952.000	119248.000	4353847.600	Pass
A6 (6")	-87976216.000	-88080696.000	104480.000	4404034.800	Pass
PASS/FAIL SUMMARY					
Std Deviation Verification				Pass	
Average Verification				Pass	
Gain Tolerance Verification				Pass	

MICRO LOG SHOP CALIBRATION			
Tool Name:	Microlog Pad - 10960494	Reference Calibration Date:	01-Feb-19 14:12:10
Engineer:	WHITLOCK	Calibration Date:	13-Feb-19 14:22:35
Software Version:	WL INSITE R5.8.9 (Build 6)	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	-0.10	-0.10	-0.01	-0.01	ohmm
Calibration Point #1	0.01	0.00	-0.00	0.00	ohmm
Calibration Point #2	19.94	20.00	20.01	20.00	ohmm
Internal Reference	19.84	19.91	20.03	20.01	ohmm
Measurement	Micro Log Normal Tool Value		Micro Log Lateral Tool Value		Units
Tool Zero	-0.04		0.17		V
Calibration Point #1	27.49		2.13		V
Calibration Point #2	5310.88		6942.96		V
Internal Reference	5286.33		6946.78		V

MICRO LOG FIELD CHECK					
Tool Name:	Microlog Pad - 10960494		Reference Calibration Date:	13-Feb-19 14:22:35	
Engineer:	WHITLOCK		Calibration Date:	04-Mar-19 14:48:19	
Software Version:	WL INSITE R6.0.2 (Build 8)		Calibration Version:	1	

Measurement	Micro Log Normal		Micro Log Lateral		
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Measurement	Micro Log Normal		Micro Log Lateral		Units
	Shop	Field	Shop	Field	
Tool Zero	-0.10	-0.11	-0.01	-0.00	ohmm
Internal Reference	19.91	19.98	20.01	19.99	ohmm
Summary					
Signal	Shop	Field	Difference	Tolerance	
Microlog Normal	19.91	19.98	-0.07	+/- 0.80	
Microlog Lateral	20.01	19.99	0.02	+/- 0.80	

SPECTRAL DENSITY SHOP CALIBRATION					
Tool Name:	SDLT Pad - 11213308		Reference Calibration Date:	14-Dec-18 10:49:18	
Engineer:	WHITLOCK		Calibration Date:	14-Dec-18 11:15:00	
Software Version:	WL INSITE R5.8.9 (Build 6)		Calibration Version:	1	

Logging Source S/N: 5475GW					
Aluminum Block S/N: El Reno Aluminum Block		Density: 2.581g/cc		Pe: 3.170	
Magnesium Block S/N: El Reno Magnesium Block		Density: 1.687g/cc		Pe: 2.594	
DENSITY CALIBRATION SUMMARY					
Measurement	Previous Value		New Value		Control Limit
Near Bar Gain	0.9935		0.9902		0.90 - 1.10
Near Dens Gain	0.9891		0.9881		0.90 - 1.10
Near Peak Gain	1.0020		1.0148		0.90 - 1.10
Near Lith Gain	1.0071		1.0175		0.90 - 1.10
Far Bar Gain	1.0015		1.0048		0.90 - 1.10
Far Dens Gain	0.9919		0.9938		0.90 - 1.10
Far Peak Gain	0.9878		0.9921		0.90 - 1.10
Far Lith Gain	0.9743		0.9808		0.90 - 1.10
Near Bar Offset	0.1918		0.2246		NONE
Near Dens Offset	0.2308		0.2401		NONE
Near Peak Offset	0.0959		-0.0122		NONE
Near Lith Offset	0.0296		-0.0574		NONE
Far Bar Offset	0.0411		0.0135		NONE
Far Dens Offset	0.1442		0.1314		NONE
Far Peak Offset	0.1660		0.1305		NONE
Far Lith Offset	0.2364		0.1860		NONE
Near Bar Background	937.48		939.15		700 - 1450
Near Dens Background	311.57		312.43		230 - 480
Near Peak Background	135.23		136.70		100 - 210
Near Lith Background	166.58		166.31		125 - 260
Far Bar Background	479.15		478.16		450 - 900
Far Dens Background	191.75		190.12		175 - 345
Far Peak Background	77.50		76.92		70 - 140
Far Lith Background	79.00		78.81		75 - 145

CALIBRATION BLOCK SUMMARY					
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change	
MAGNESIUM					
Density (g/cc)	1.689	1.687	-0.002	+/- 0.015	
Pe	2.556	2.551	-0.005	+/- 0.150	
ALUMINUM					
Density (g/cc)	2.580	2.581	0.001	+/- 0.01500	
Pe	3.107	3.123	0.016	+/- 0.150	

TOOL SUMMARY					
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TEST SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0000	+/- 0.0110	-0.0004	+/- 0.0140
Magnesium Block	-0.0005	+/- 0.0110	-0.0010	+/- 0.0140
Aluminum Block	-0.0013	+/- 0.0110	0.0004	+/- 0.0140
Resolution	9.27	6.00 - 11.50	9.45	6.00 - 11.50
Internal Verifier(B+D+P+L)	1555	1200 - 2700	824	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				

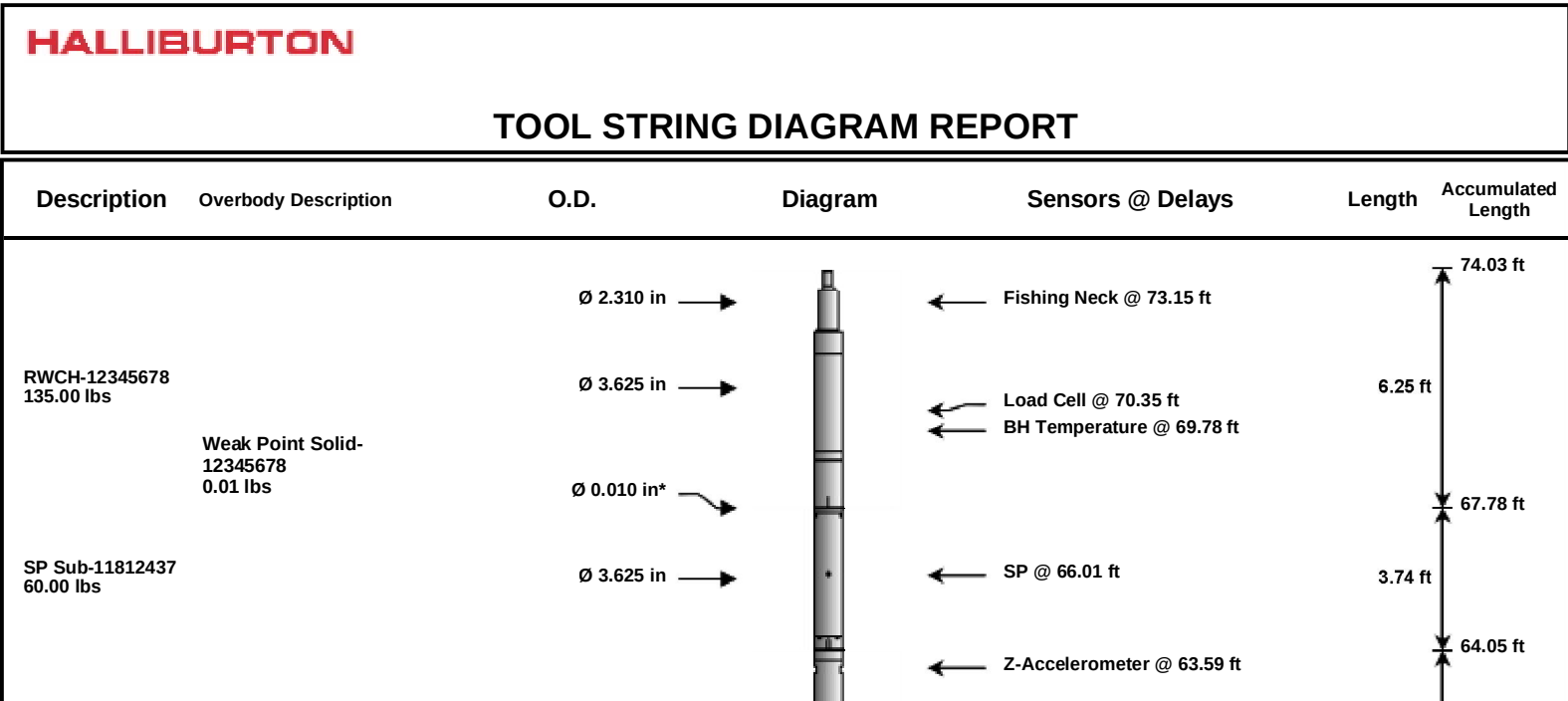
SPECTRAL DENSITY FIELD CHECK				
Tool Name:	SDLT Pad - 11213308	Reference Calibration Date:	14-Dec-18 11:15:00	
Engineer:	WHITLOCK	Calibration Date:	04-Mar-19 15:12:49	
Software Version:	WL INSITE R6.0.2 (Build 8)	Calibration Version:	1	
Pad Temperature: 71.7 degF				
DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1554.595	1551.104	-3.491	15.869
Far (B+D+P+L) cps	824.007	817.576	-6.431	15.826
Near Resolution	9.27	9.28	0.010	0.50
Far Resolution	9.45	9.43	-0.020	1.00
PASS/FAIL SUMMARY				
Bkg Quality Check:		Passed		
Bkg Resolution Check:		Passed		
Bkg Verification Check:		Passed		

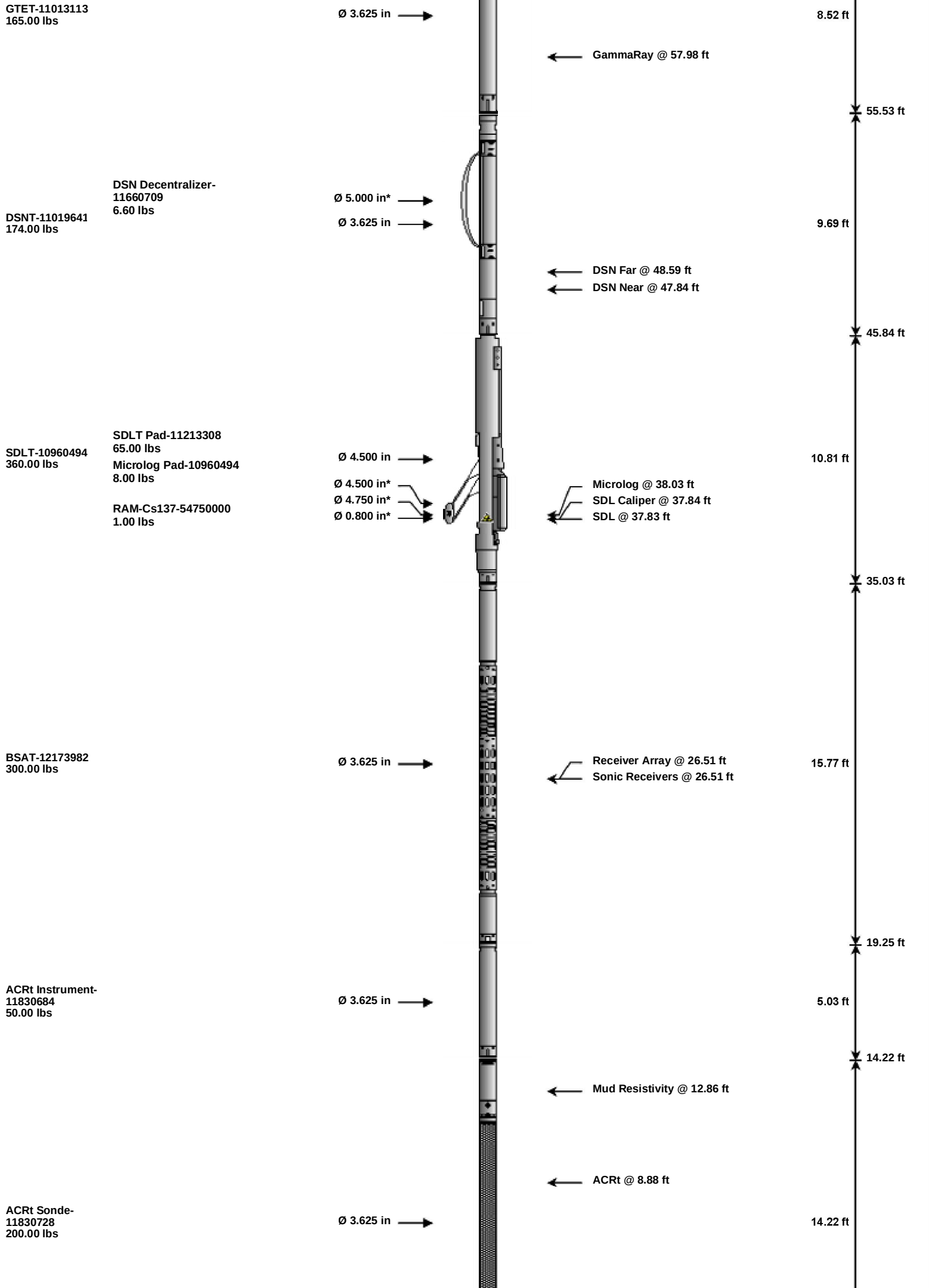
CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
Depth Panel-12345678						
Tension Zero	0.00	-----	-----	0.00	-----	lbs
Tension Cal	7830.00	-----	-----	0.00	-----	lbs
RWCH-12345678						
DH Tension Zero	0.00	-----	-----	0.00	-----	lbs
DH Tension Cal	2450.00	-----	-----	0.00	-----	lbs
GTET-11013113						
Gamma Ray Calibrator	225.9	228.0	-----	-2.1	+/- 9.00	api
DSNT-11019641						
Snow-Block Porosity	0.0629	0.0629	-----	0.0000	+/- 0.0150	decp
SDLT-10960494						
Pad Extension	3.75	3.79	-----	-0.04	+/-0.10	in
Ring Diameter	8.25	8.25	-----	0.00	+/-0.15	in
ACRt Sonde-11830728						
Mud Cell	0.99	-----	-----	0	-----	ohm-m
Microlog Pad-10960494						

MicroLog Normal	19.91	19.98	-----	-0.07	+/-0.80	ohmm
MicroLog Lateral	20.01	19.99	-----	0.02	+/-0.80	ohmm
SDLT Pad-11213308						
Near(B+D+P+L)	1554.595	1551.104	-----	3.491	+/-15.869	cps
Far(B+D+P+L)	824.007	817.576	-----	6.431	+/-15.826	cps
Data: MERIT_KELLS\0001 RWCH-GTET-DSN-SDL-BSAT-ACRT\IDLE						
Date: 06-Mar-19 17:53:42						

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	Natural		
	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	1.200	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	5590.00	ft	
	SHARED	BHT	Bottom Hole Temperature	130.0	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	SOCI	Source of Casing Information	Parameters		
	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	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	Free Hanging	
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: MERIT_KELLSI0001 RWCH-GTET-DSN-SDL-BSAT-ACRTIDLE			Date: 06-Mar-19 17:55:28	





↓ 0.00 ft

Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	12345678	135.00	6.25	67.78	300.00
WPSS	Weak Point Solid	12345678	0.01	0.01	*	67.78
SP	SP Sub	11812437	60.00	3.74	64.05	300.00
GTET	Gamma Telemetry Tool	11013113	165.00	8.52	55.53	60.00
DSNT	Dual Spaced Neutron	11019641	174.00	9.69	45.84	60.00
DCNT	DSN Decentralizer	11660709	6.60	5.13	*	49.17
SDLT	Spectral Density Tool	10960494	360.00	10.81	35.03	60.00
SDLP	Density Insite Pad	11213308	65.00	2.55	*	37.24
Cs137	Logging Source, SDLT-I, 1.78 Ci - Cs137	54750000	1.00	0.80	*	37.47
MICP	Microlog Pad	10960494	8.00	1.00	*	37.53
BSAT	Borehole Sonic Array Tool	12173982	300.00	15.77	19.25	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11830684	50.00	5.03	14.22	120.00
ACRt	Array Compensated True Resistivity Sonde Section	11830728	200.00	14.22	0.00	120.00
Total			1,524.61	74.03	* Not included in Total Length and Length Accumulation.	
Data: MERIT_KELLSI0001 RWCH-GTET-DSN-SDL-BSAT-ACRTIDLE					Date: 06-Mar-19 17:55:39	