

HALLIBURTON

ARRAY COMPENSATED
RESISTIVITY
LOG

VAL ENERGY, INC.										COMPANY VAL ENERGY, INC.														
SOUTH EAST MADDIX #1-11										WELL SOUTH EAST MADDIX #1-11														
UNKNOWN										FIELD UNKNOWN														
BARBER										COUNTY BARBER														
KANSAS										STATE KANSAS														
COMPANY					WELL					FIELD					COUNTY					STATE				
Permanent Datum					Log measured from					Drilling measured from					Date					Run No.				
GL					KB					KB					27-Mar-13					1				
Sect. 11					Twp. 31 S					Rge. 13 W					Elev.: K.B. 1692.0 ft									
Location					E2 NE NW NW 330' FNL & 1155' FWL					ACRT SDL-DSN-ML					D.F. 1691.0 ft									
API No. 15-007-23994					Other Services:					G.L. 1682.0 ft														
10.0 ft above perm. Datum																								
Depth - Driller					4450.00 ft																			
Depth - Logger					4446.0 ft																			
Bottom - Logged Interval					4436																			
Top - Logged Interval					225																			
Casing - Driller					8.625 in @ 225.0 ft					@					@									
Casing - Logger					225.0 ft																			
Bit Size					7.875 in					@					@									
Type Fluid in Hole					WBM																			
Density					9.4 ppg					58.00 s/qt														
PH					10.50 pH					9.6 cpm														
Source of Sample					MUDPIT																			
Rm @ Meas. Temperature					0.610 ohmm @ 78.00 degF					@					@									
Rmf @ Meas. Temperature					0.48 ohmm @ 75.00 degF					@					@									
Rmc @ Meas. Temperature					0.830 ohmm @ 75.00 degF					@					@									
Source Rmf					Rmc					MEAS														
Rm @ BHT					0.40 ohmm @ 124.0 degF					@					@									
Time Since Circulation					6.0 hr																			
Time on Bottom					27-Mar-13 04:22																			
Max. Rec. Temperature					124.0 degF @ 4446.0 ft					@					@									
Equipment					786					FTSM														
Recorded By					WHITLOCK																			
Witnessed By					ZEB STEWART																			

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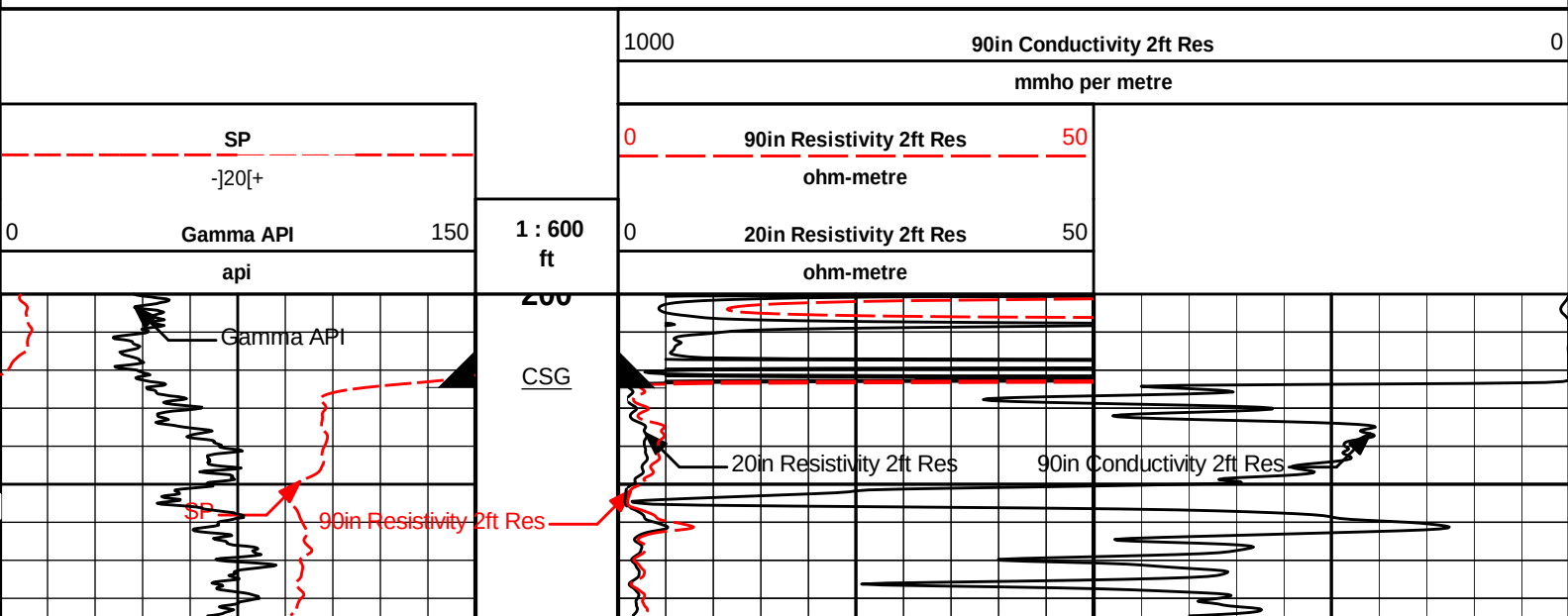
Service Ticket No.: 900320116						API Serial No.: 15-007-23994						PGM Version: WL INSITE R3.6.0 (Build 3)																			
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES																			
Date		Sample No.										Type Log		Depth		Scale Up Hole				Scale Down Hole											
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							

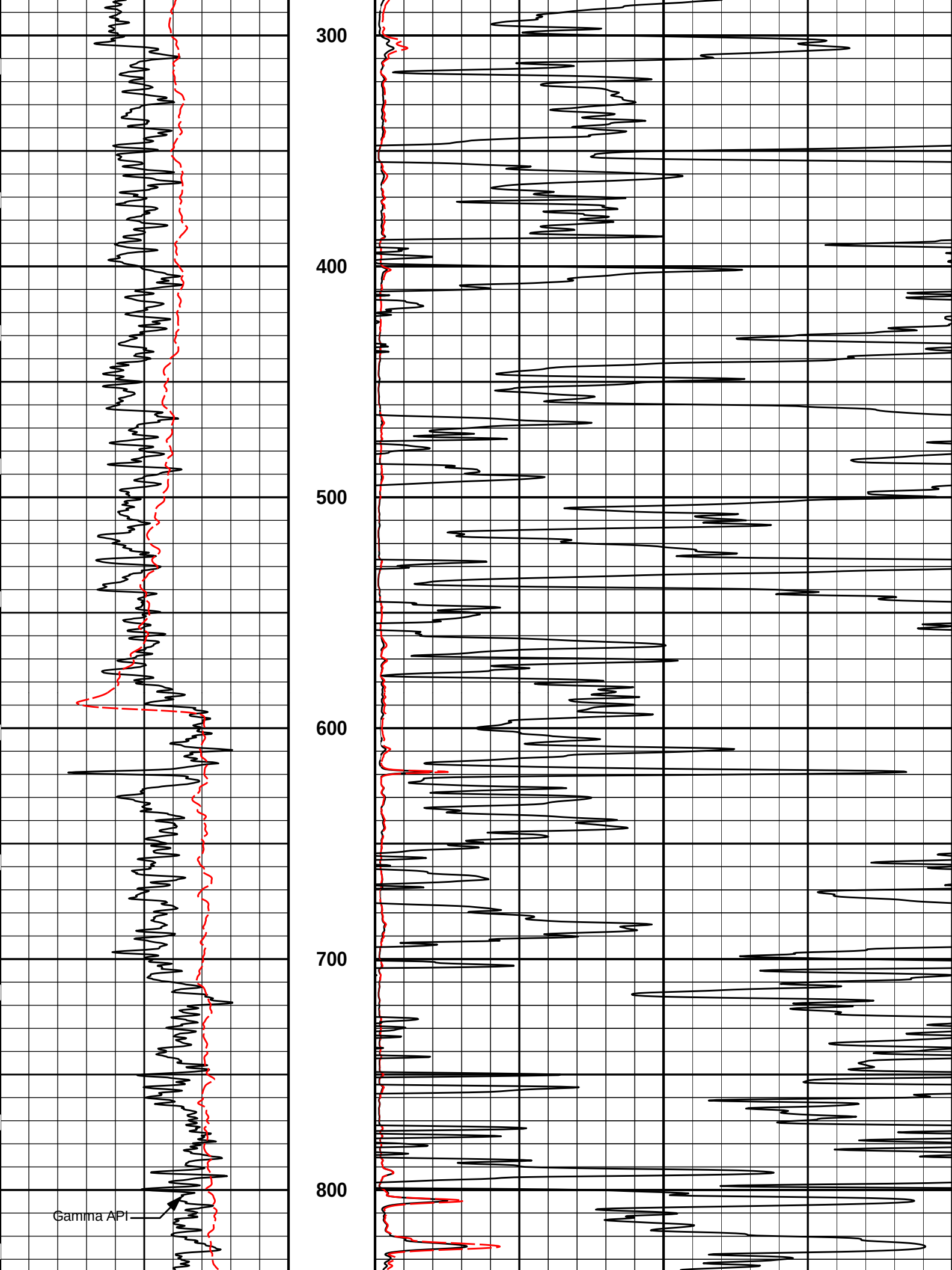
[illegible]**HALLIBURTON**

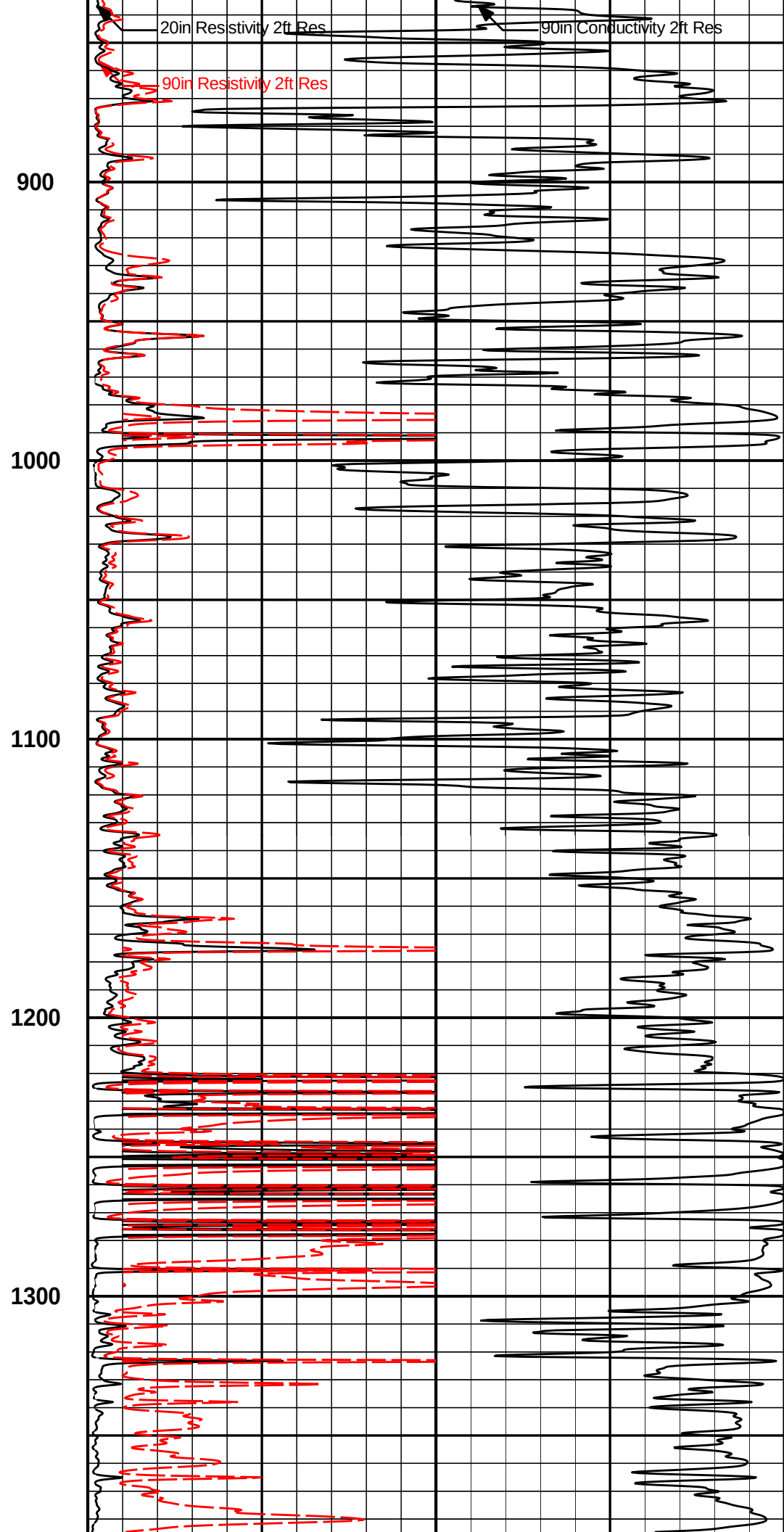
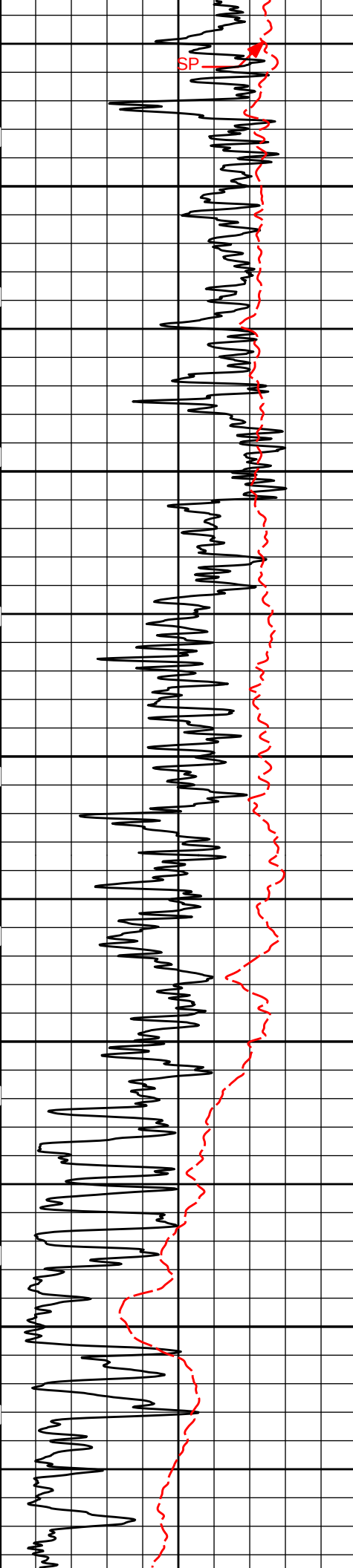
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Plot Range: 200 ft to 4450.92 ft
Data: VAL_MADDIX\Well Based\DAQ-0001-003\
Plot File: \\LOCAL-VAL_MADDIX\0001 GTET-DSN-SDL-ACRT\ACRT\ACRT_2_main

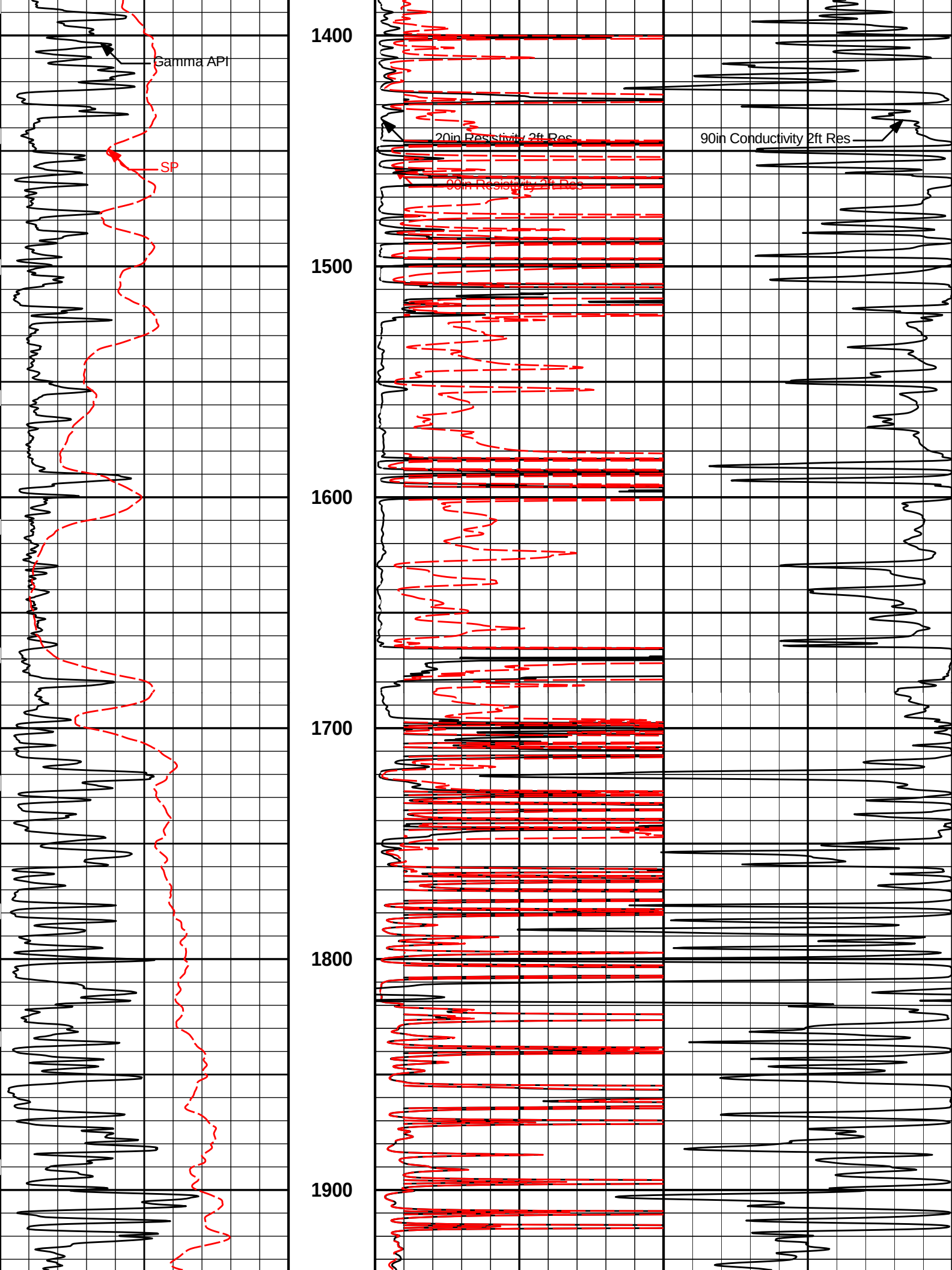
2 INCH MAIN LOG

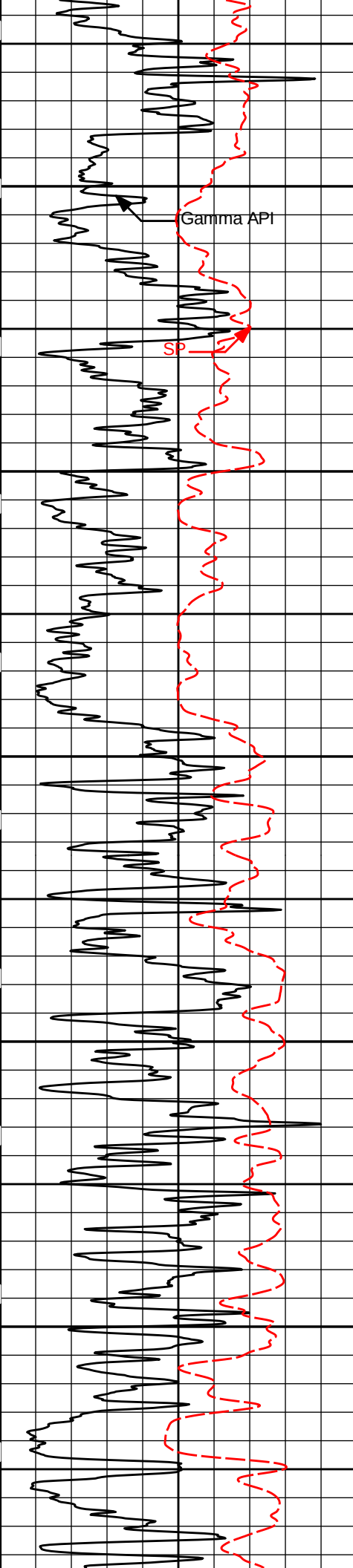
2 INCH MAIN LOG











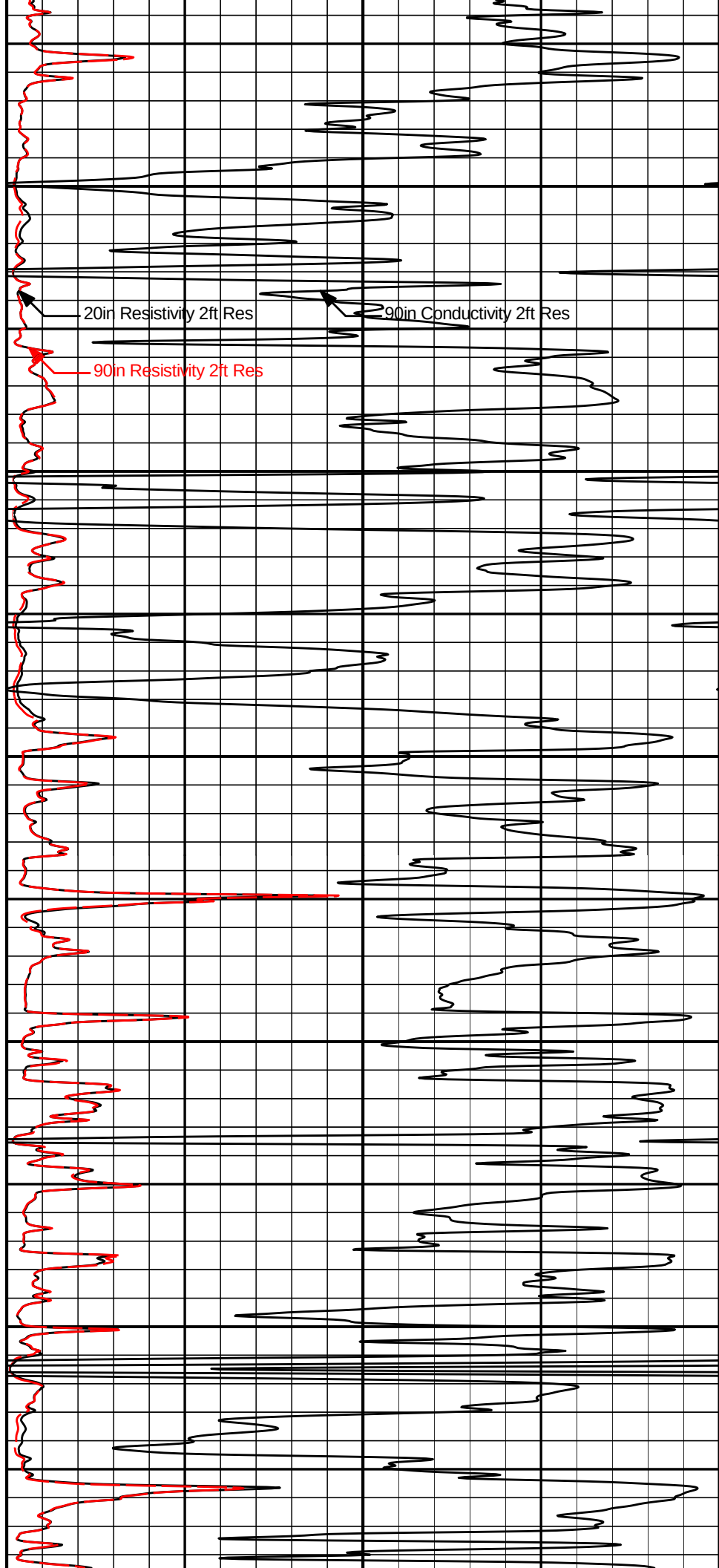
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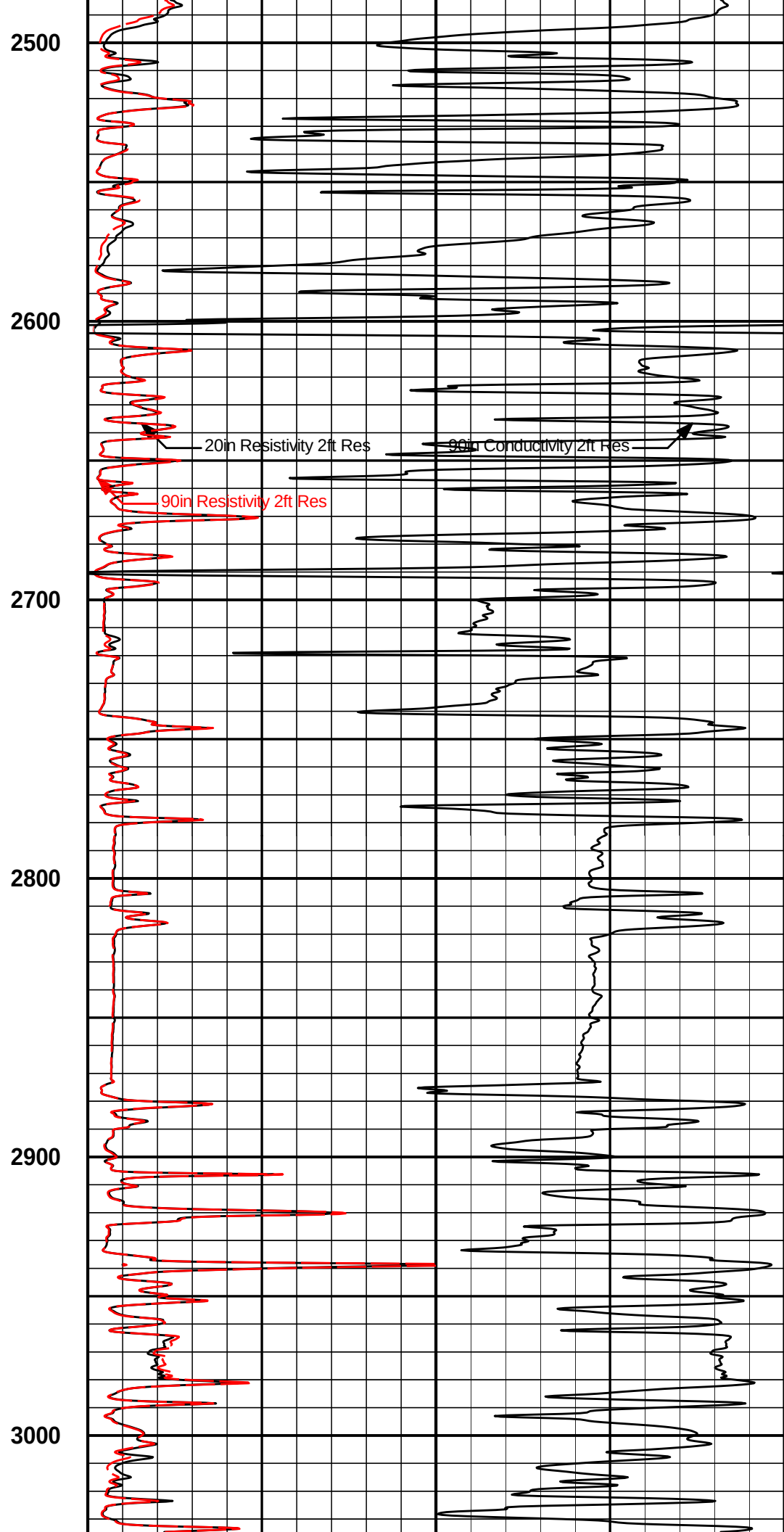
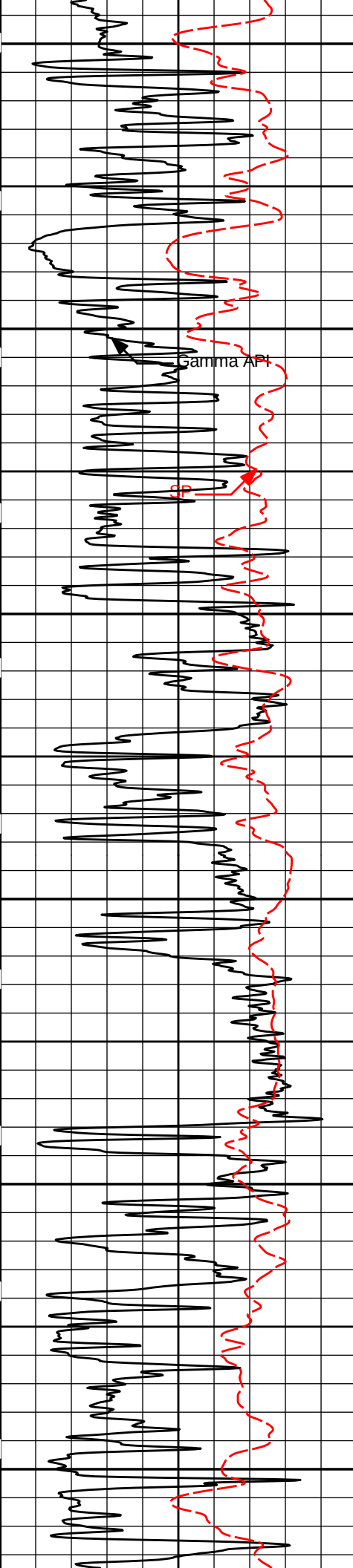
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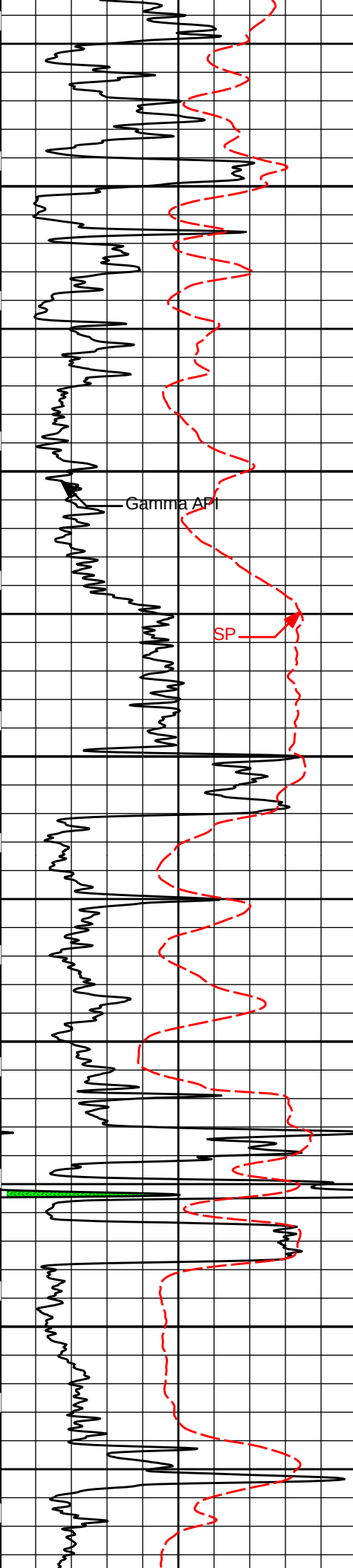
2200

2300

2400







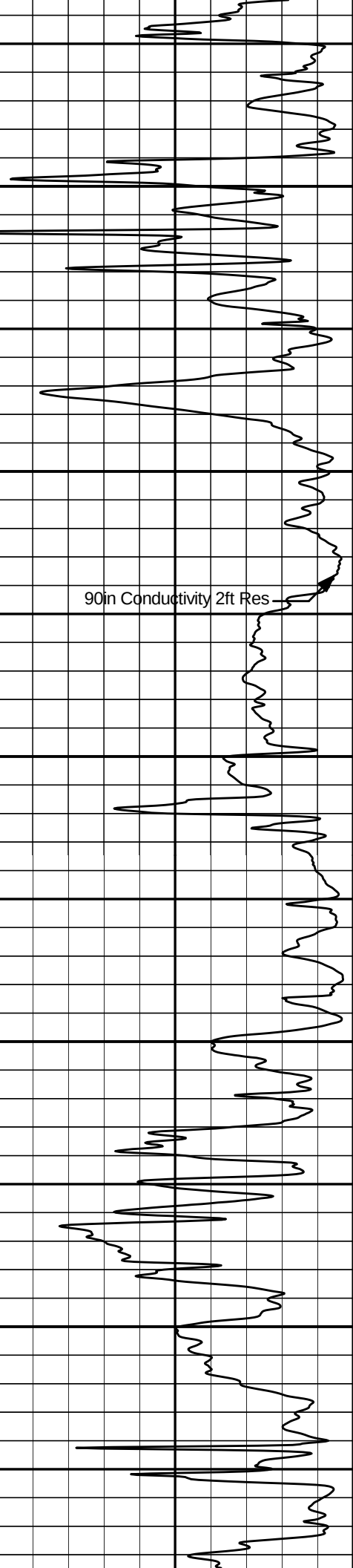
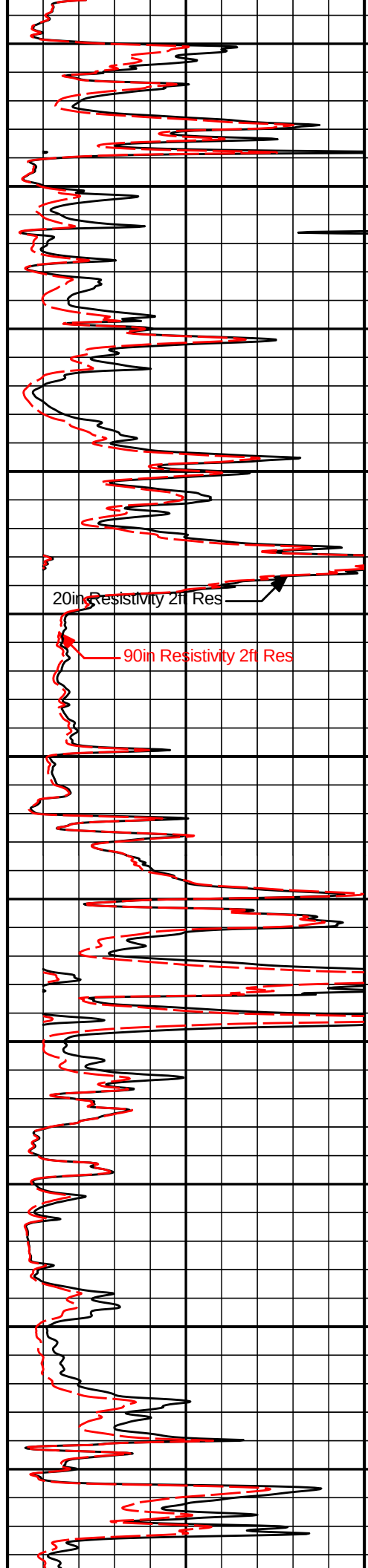
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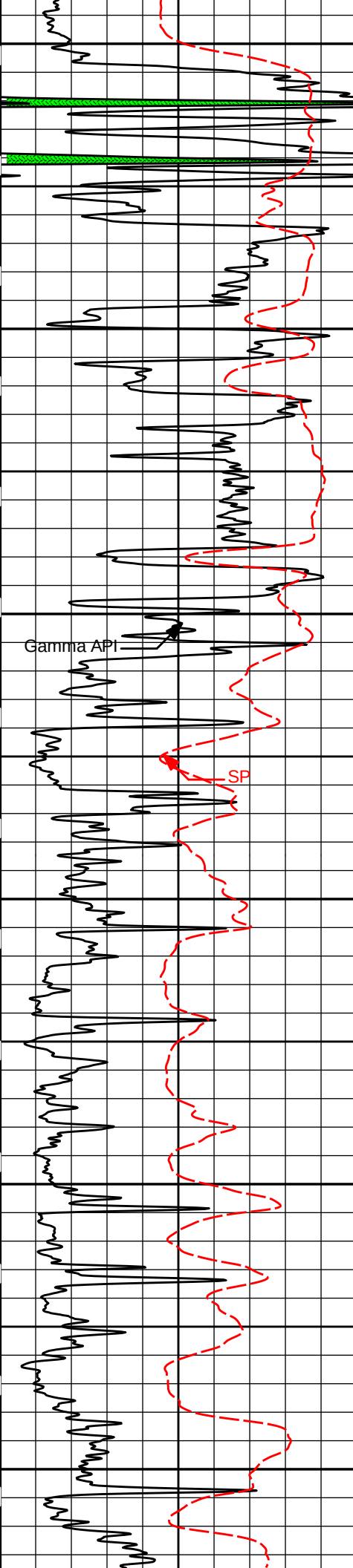
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3300

3400

3500





3600

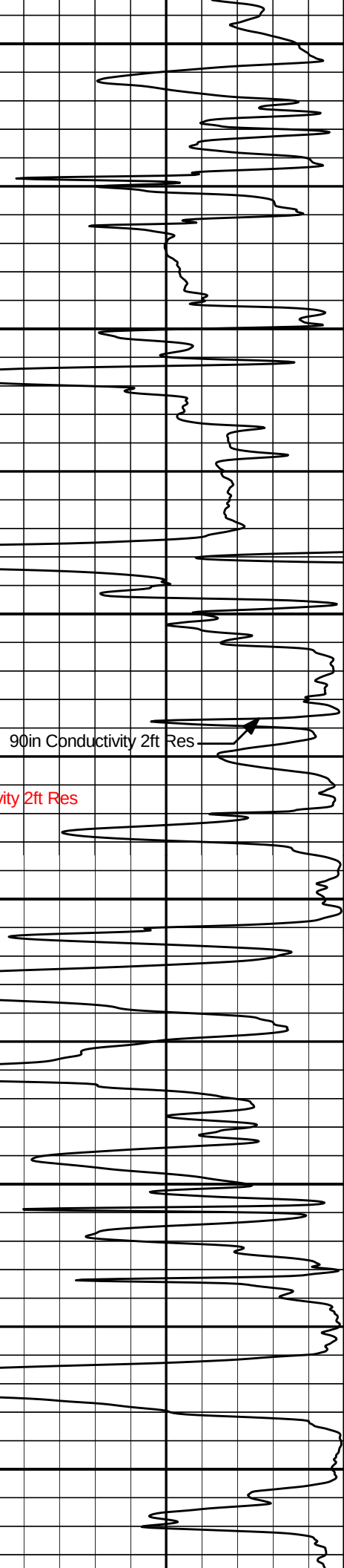
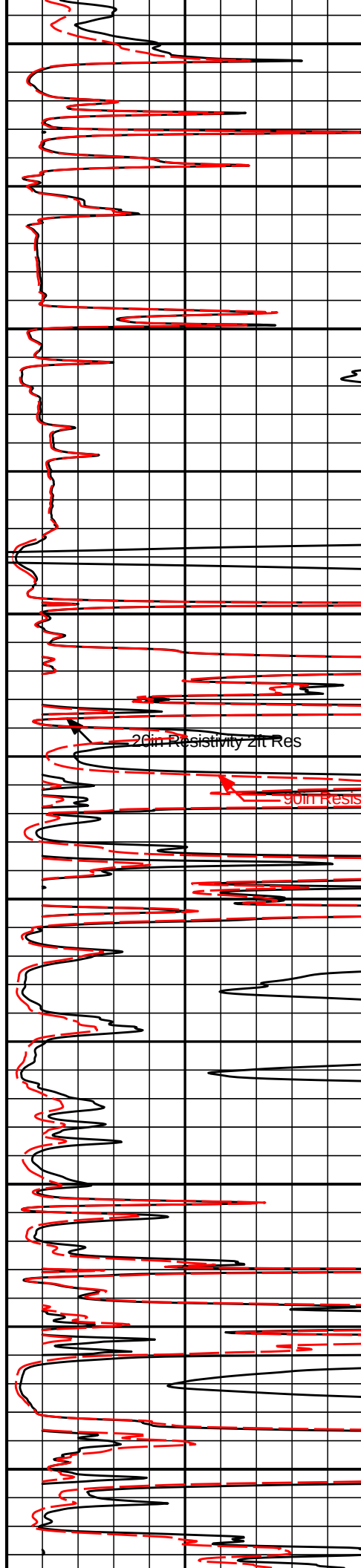
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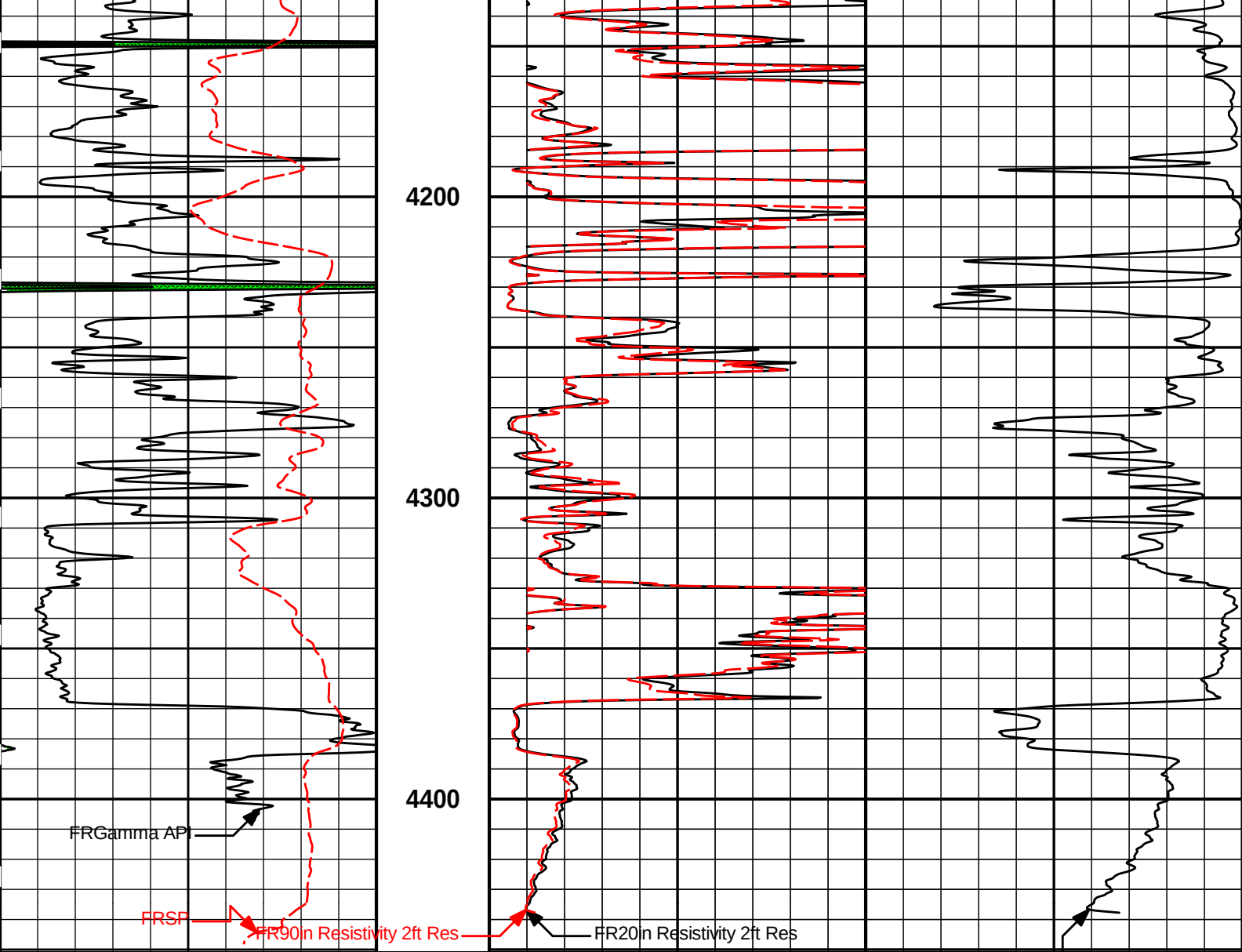
3800

3900

4000

4100





0	Gamma API	150	1 : 600 ft	0	20in Resistivity 2ft Res	50	
	api				ohm-metre		
	SP			0	90in Resistivity 2ft Res	50	
	-]20[+				ohm-metre		
				1000	90in Conductivity 2ft Res		0
					mmho per metre		

HALLIBURTON

Plot Time: 27-Mar-13 06:30:46
Plot Range: 200 ft to 4450.92 ft
Data: VAL_MADDIX\Well Based\DAQ-0001-003\
Plot File: \\LOCAL-IVAL_MADDIX\0001 GTET-DSN-SDL-ACRT\ACRT\ACRT_2_main

2 INCH MAIN LOG

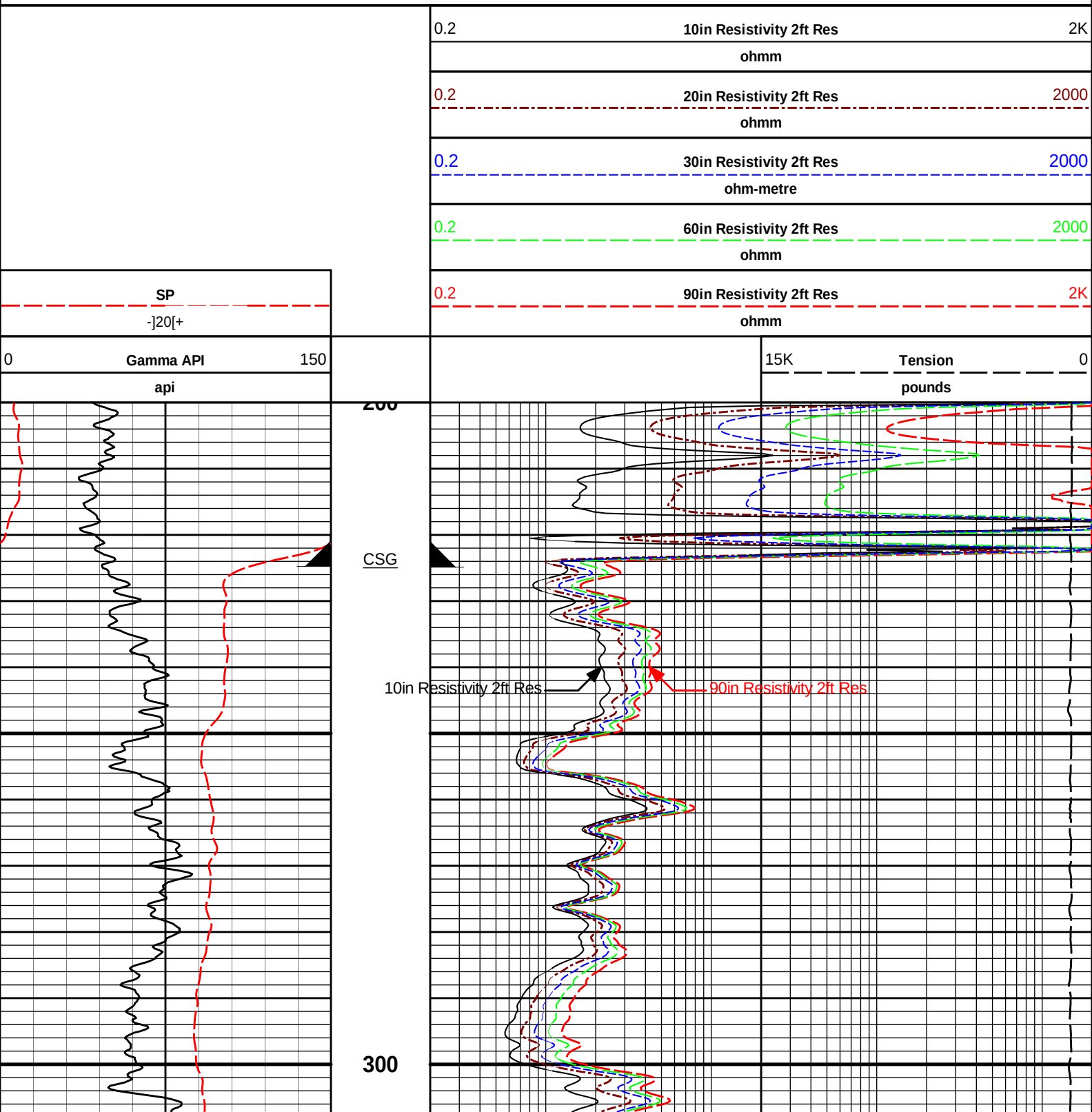
2 INCH MAIN LOG

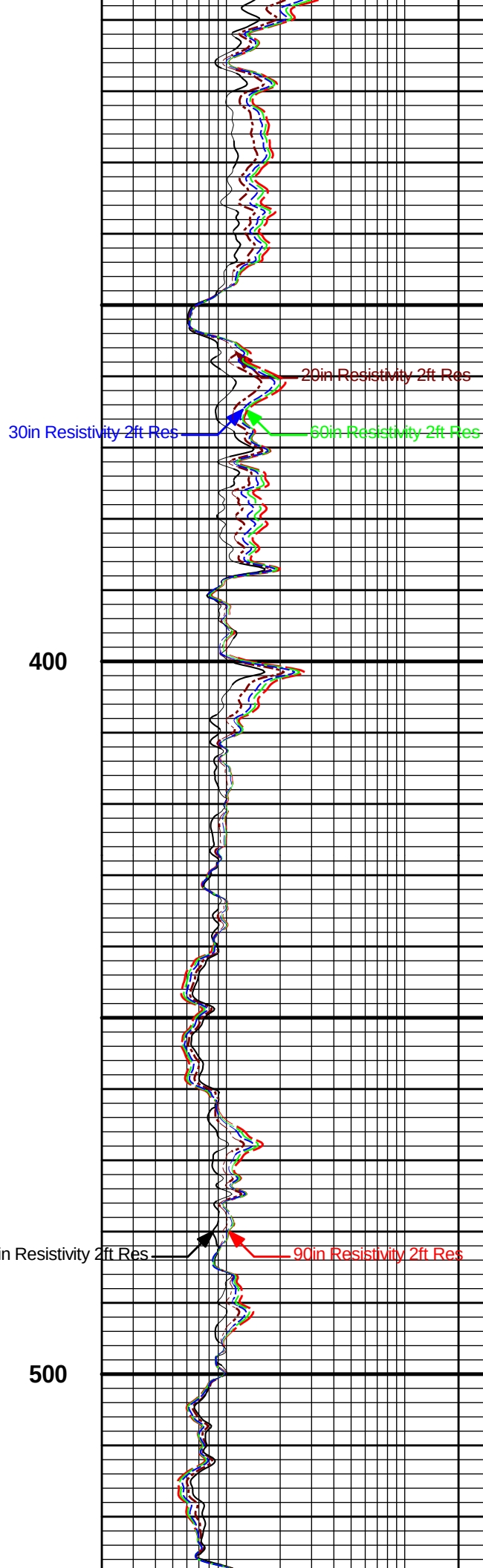
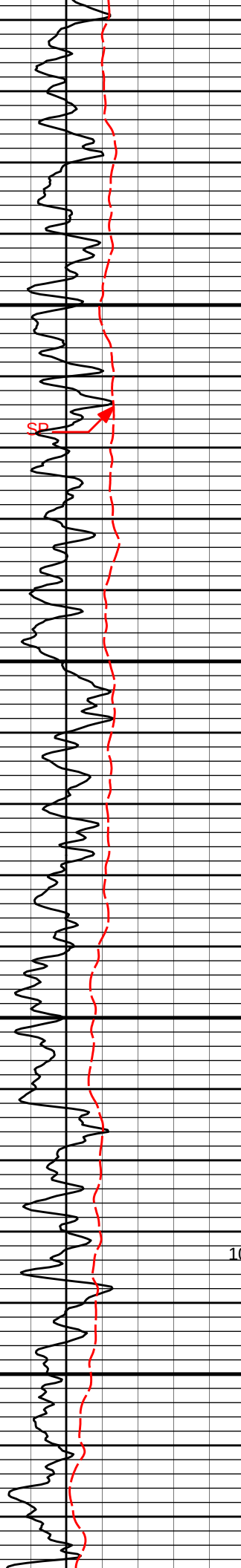
HALLIBURTON

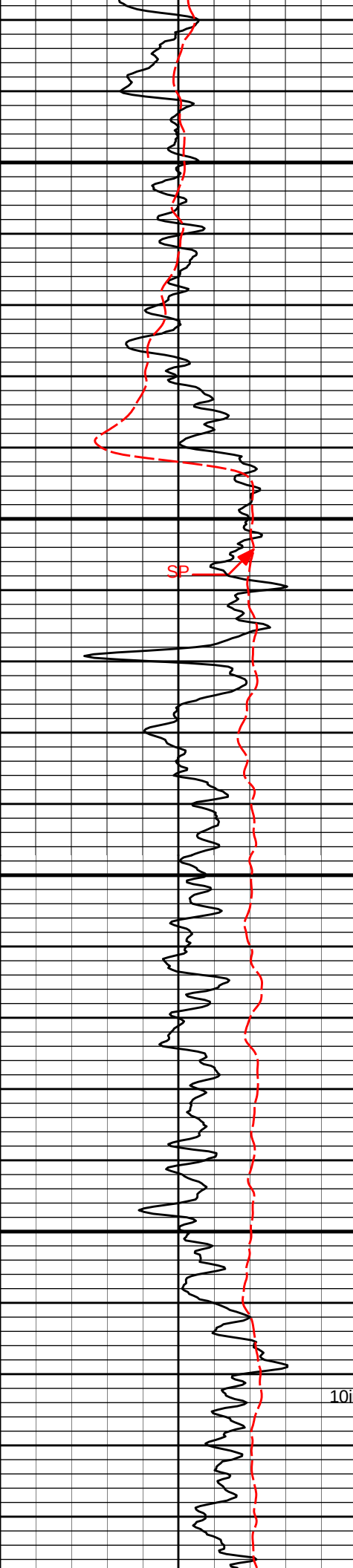
Plot Time: 27-Mar-13 06:30:47

5 INCH MAIN LOG

5 INCH MAIN LOG





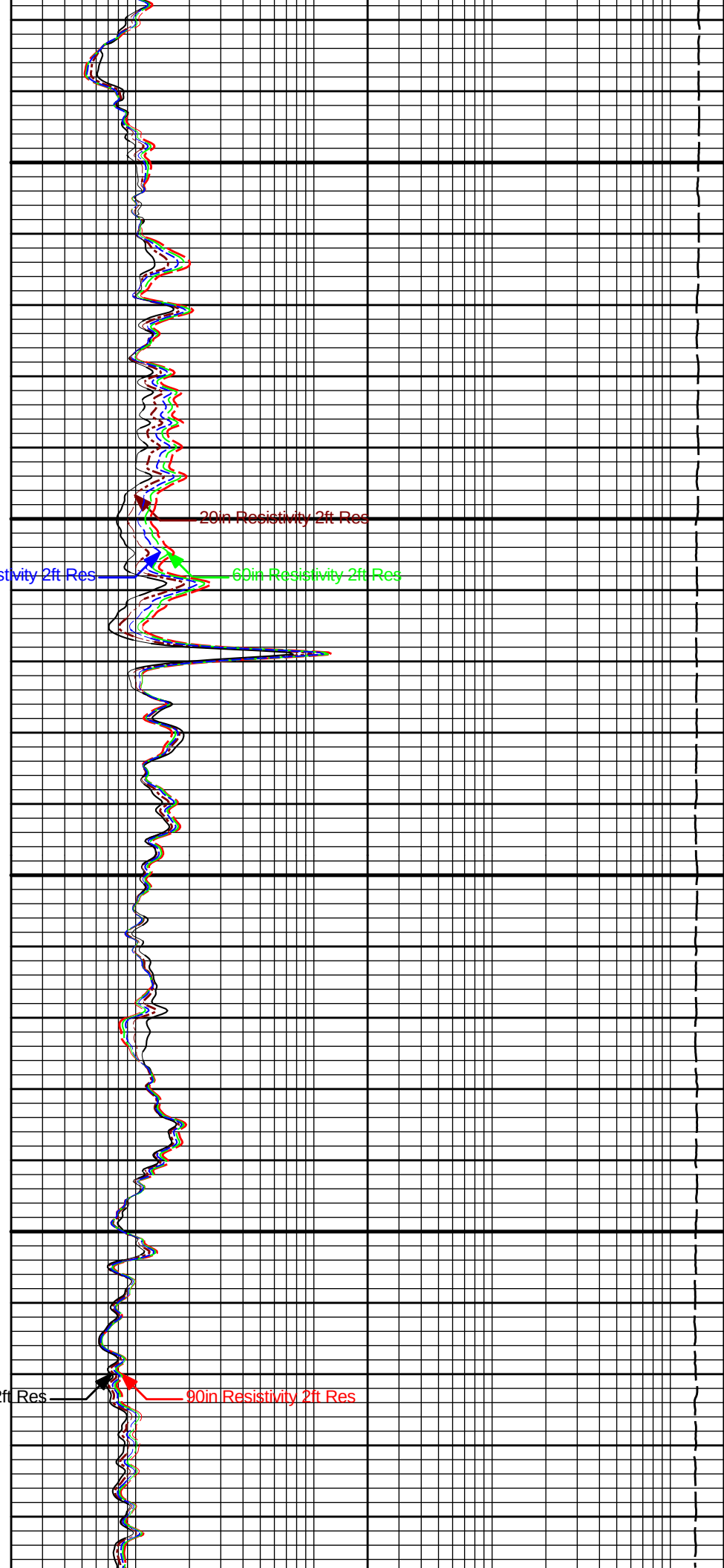


600

30in Resistivity 2ft Res

700

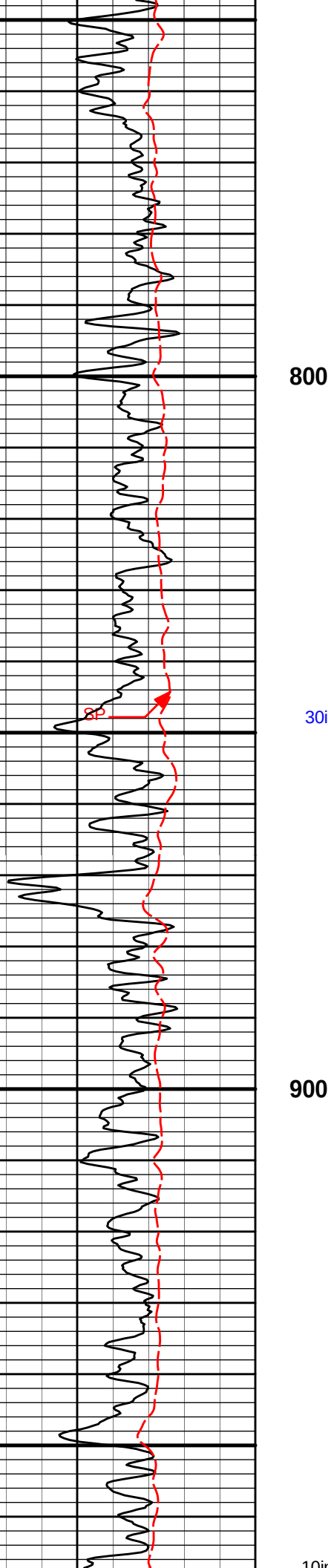
10in Resistivity 2ft Res



20in Resistivity 2ft Res

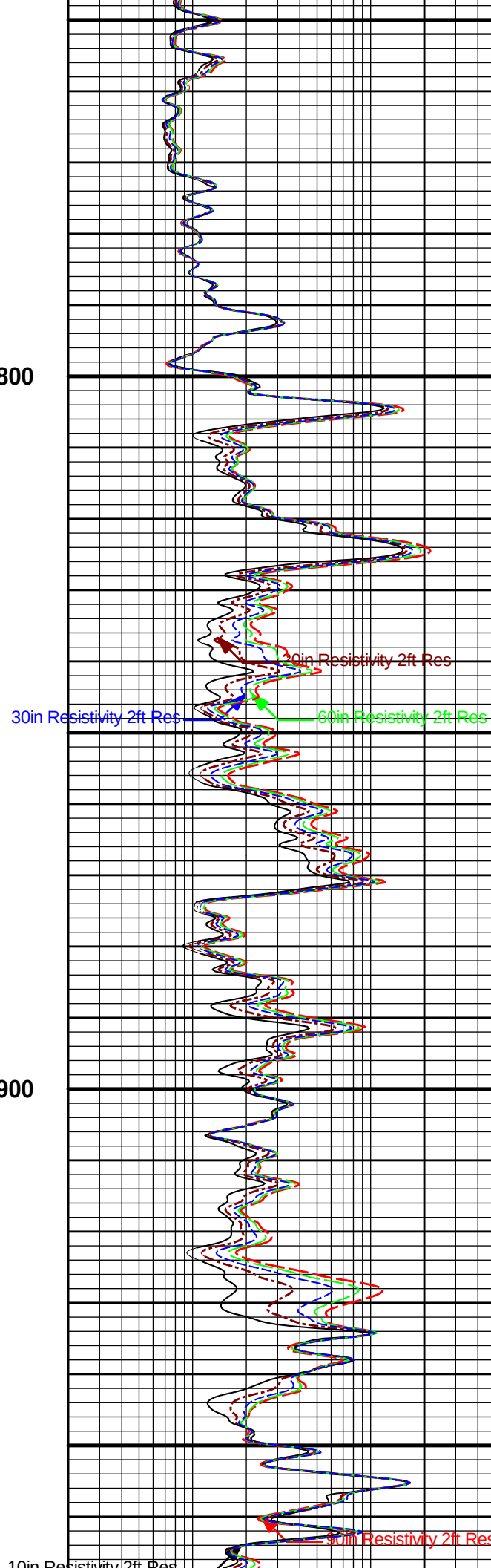
60in Resistivity 2ft Res

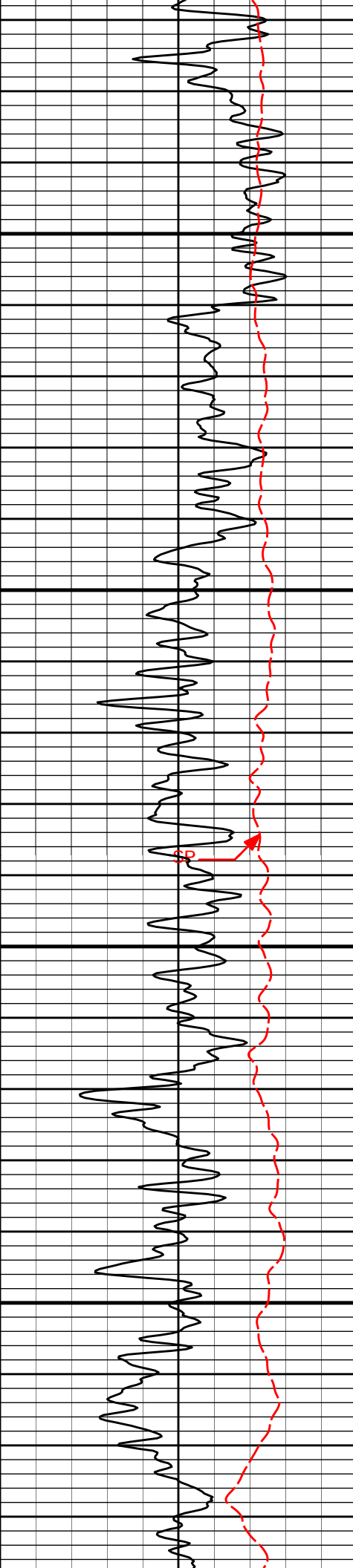
90in Resistivity 2ft Res



800

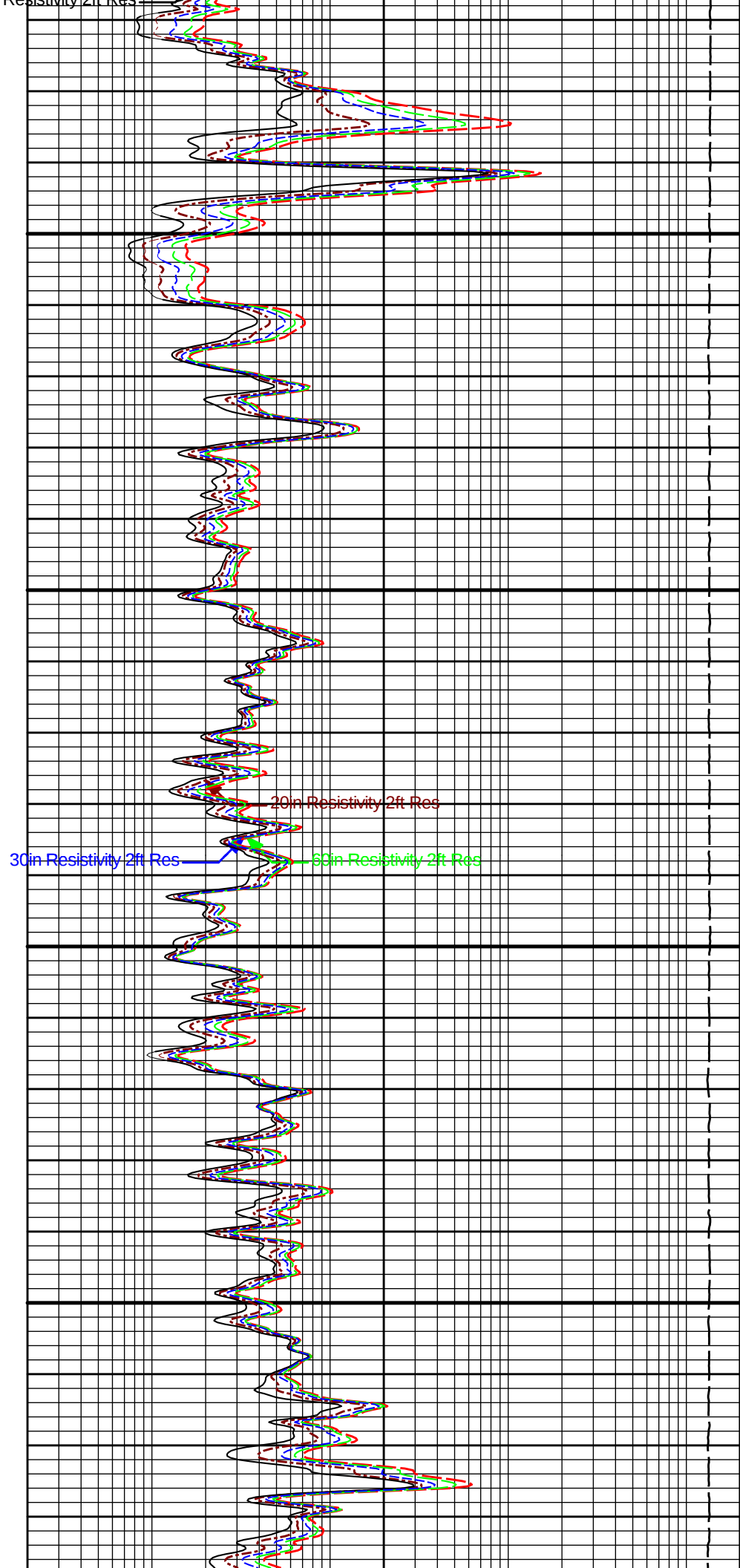
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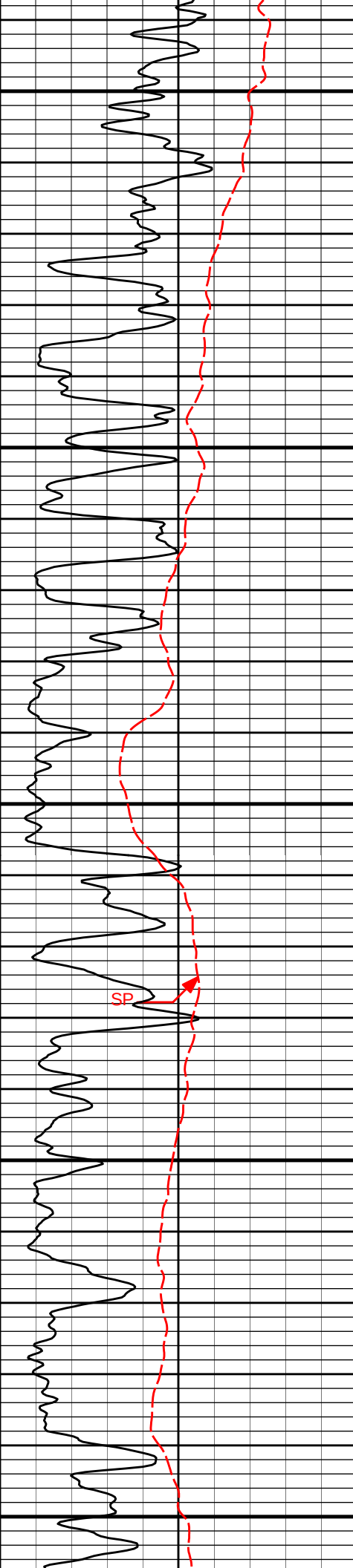




1000

1100





1200

10in Resistivity 2ft Res

90in Resistivity 2ft Res

1300

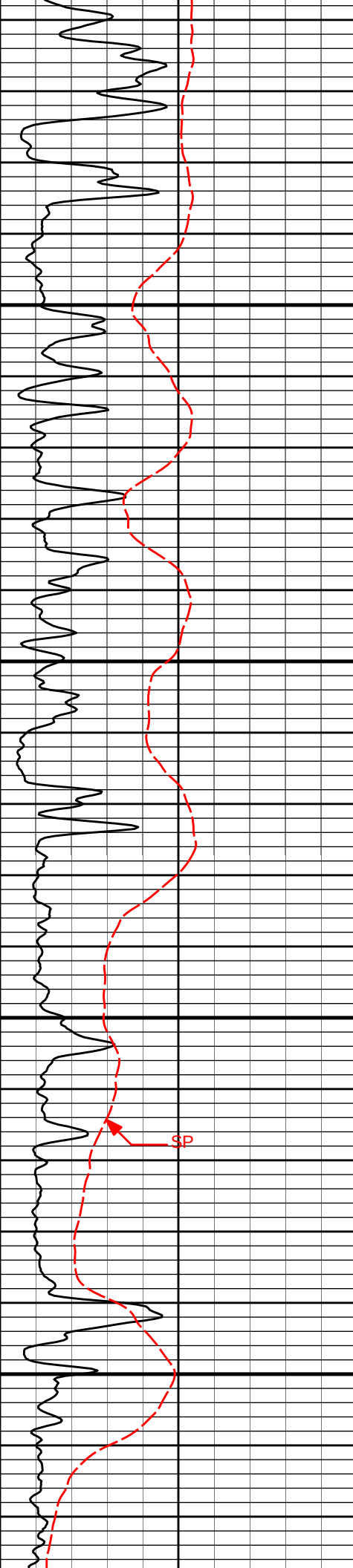
SP

20in Resistivity 2ft Res

30in Resistivity 2ft Res

60in Resistivity 2ft Res

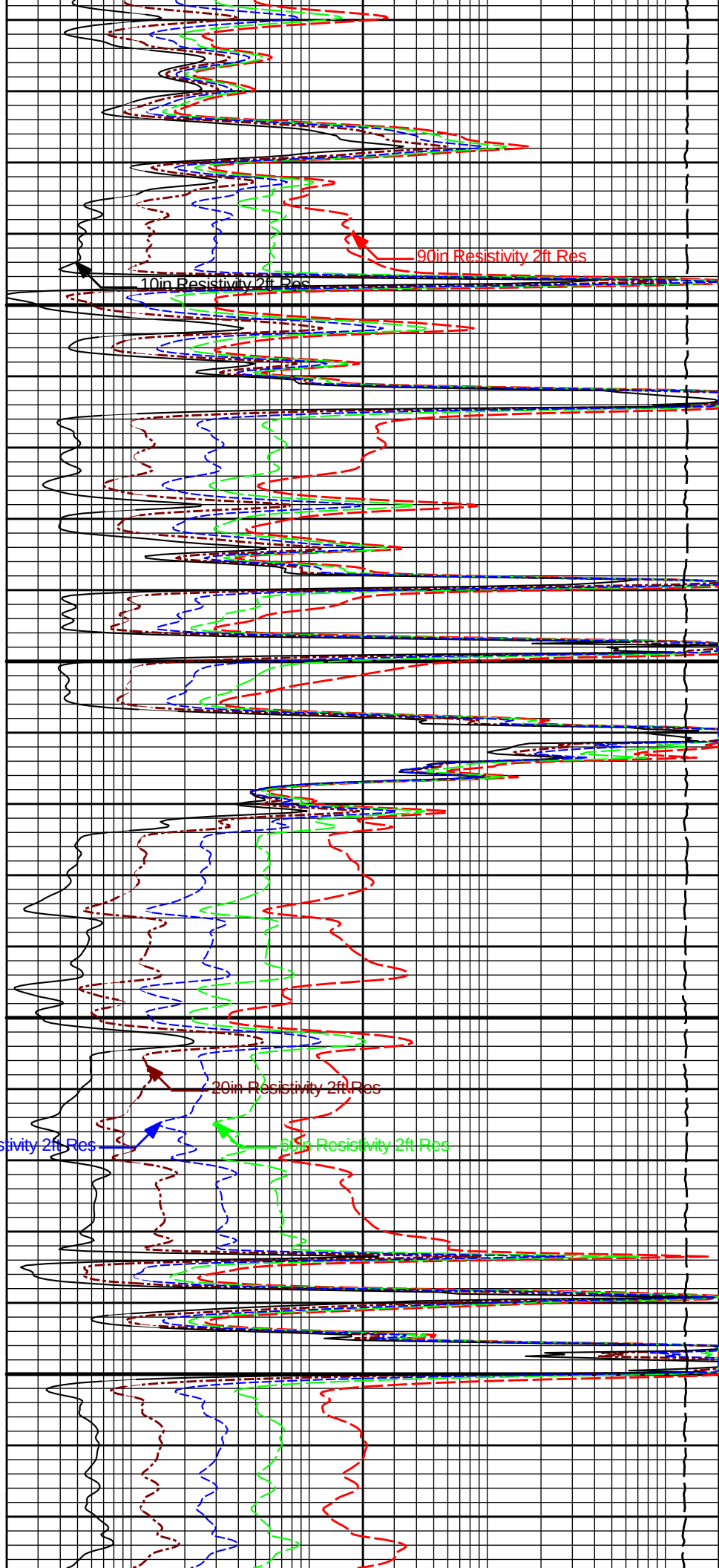
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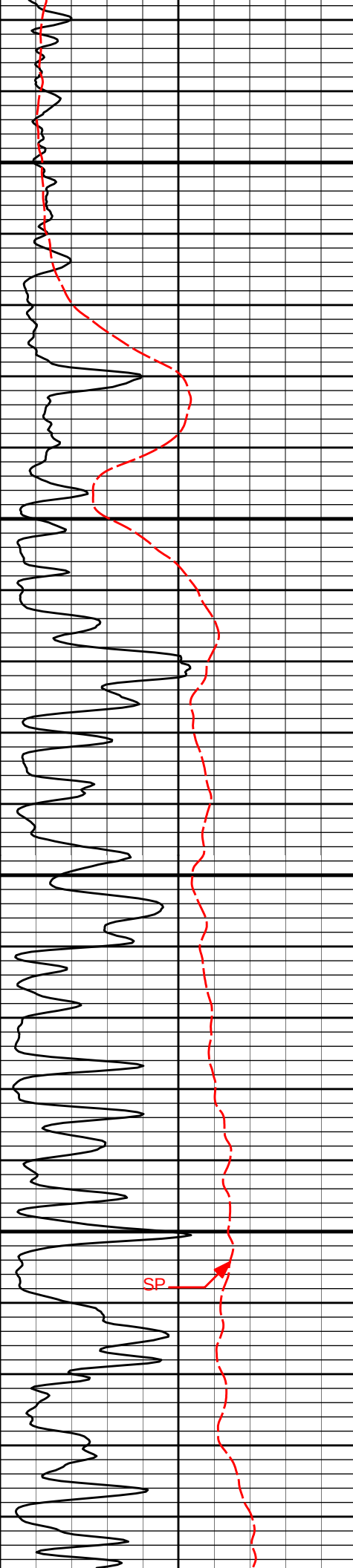


1500

30in Resistivity 2ft Res

1600

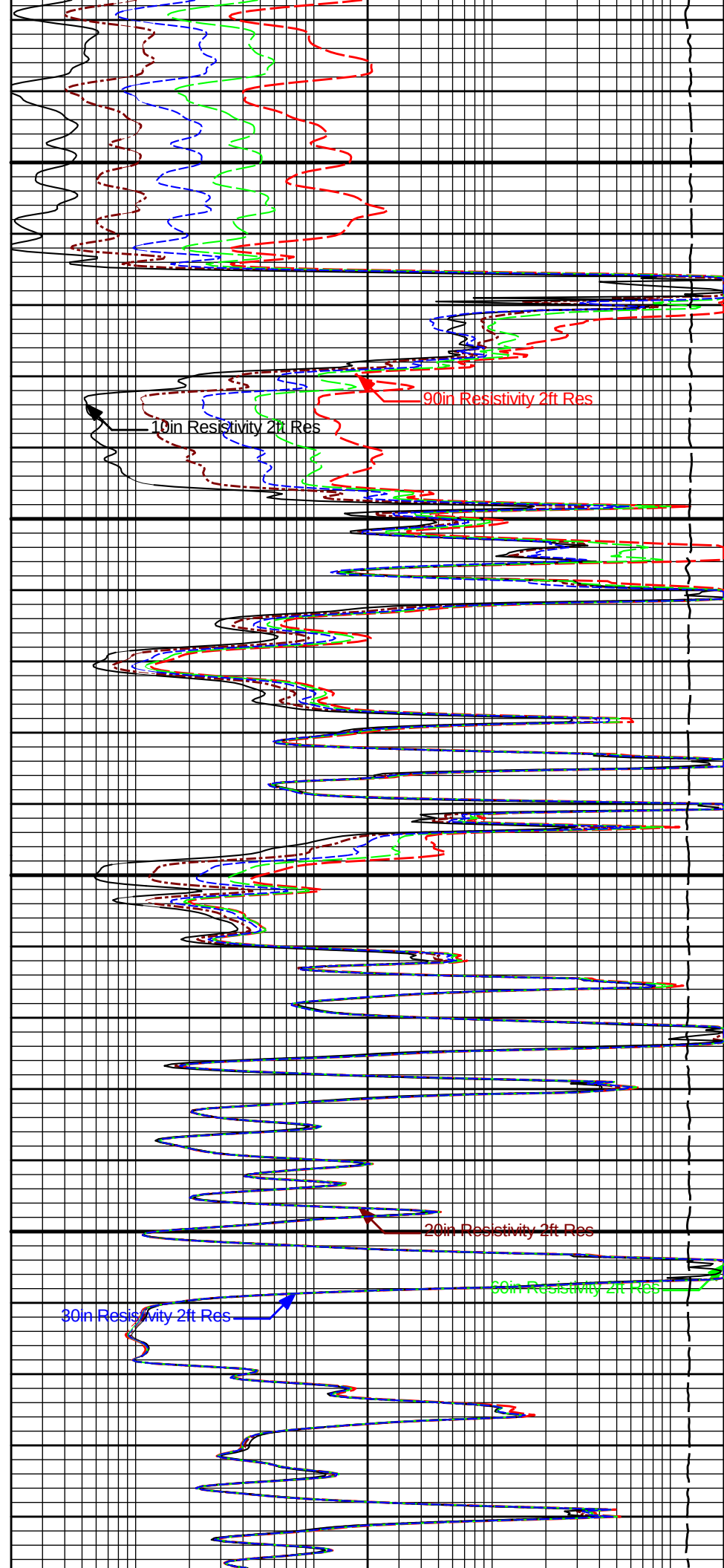




1700

1800

SP



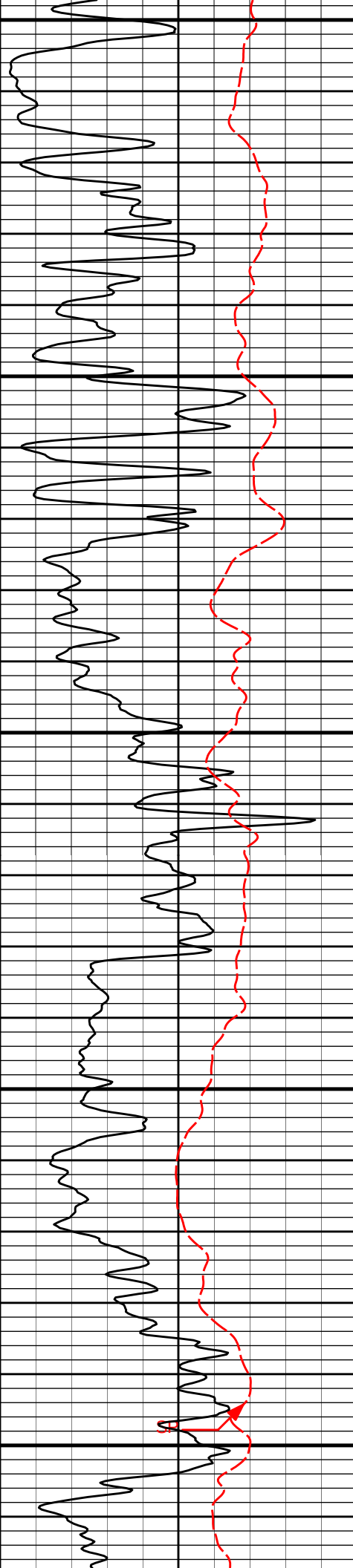
10in Resistivity 2ft Res

90in Resistivity 2ft Res

20in Resistivity 2ft Res

30in Resistivity 2ft Res

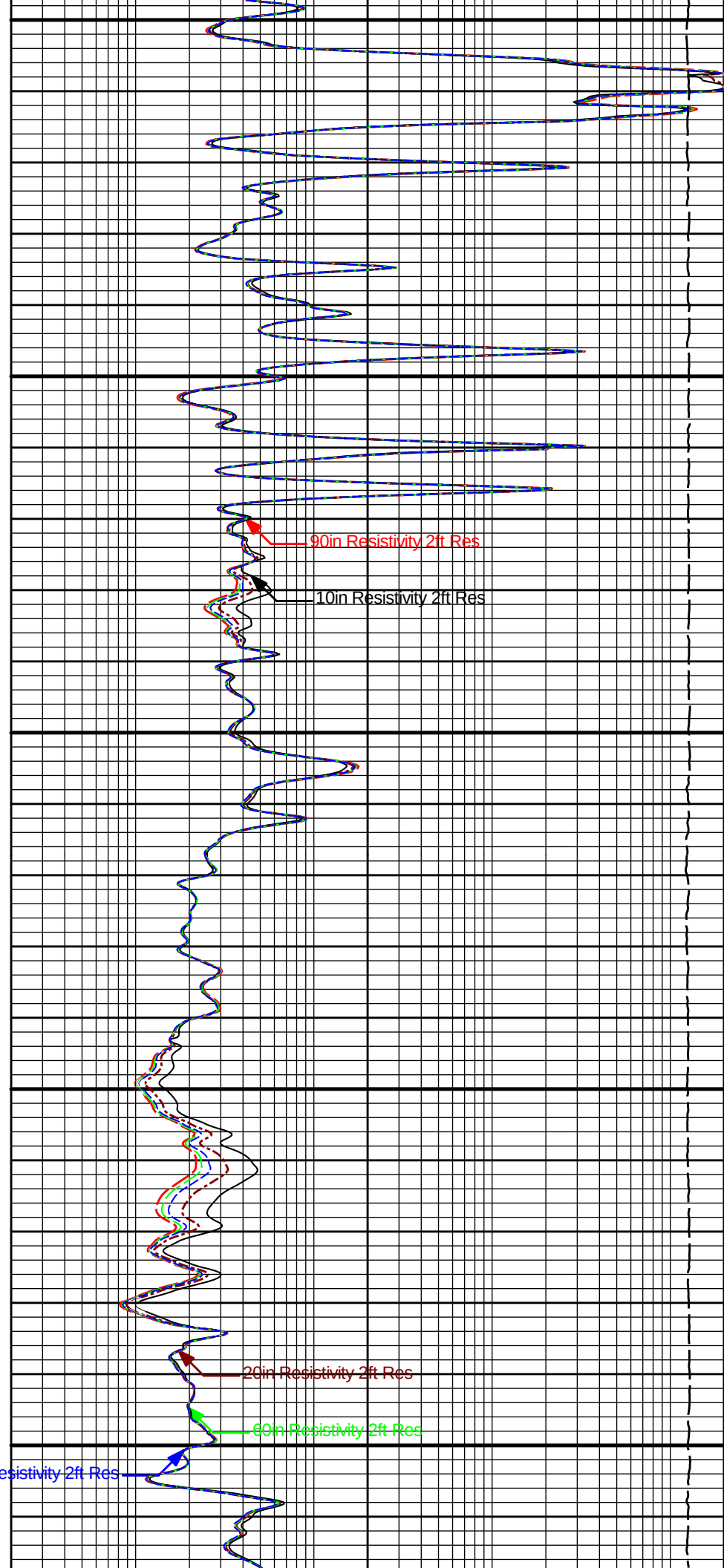
60in Resistivity 2ft Res



1900

2000

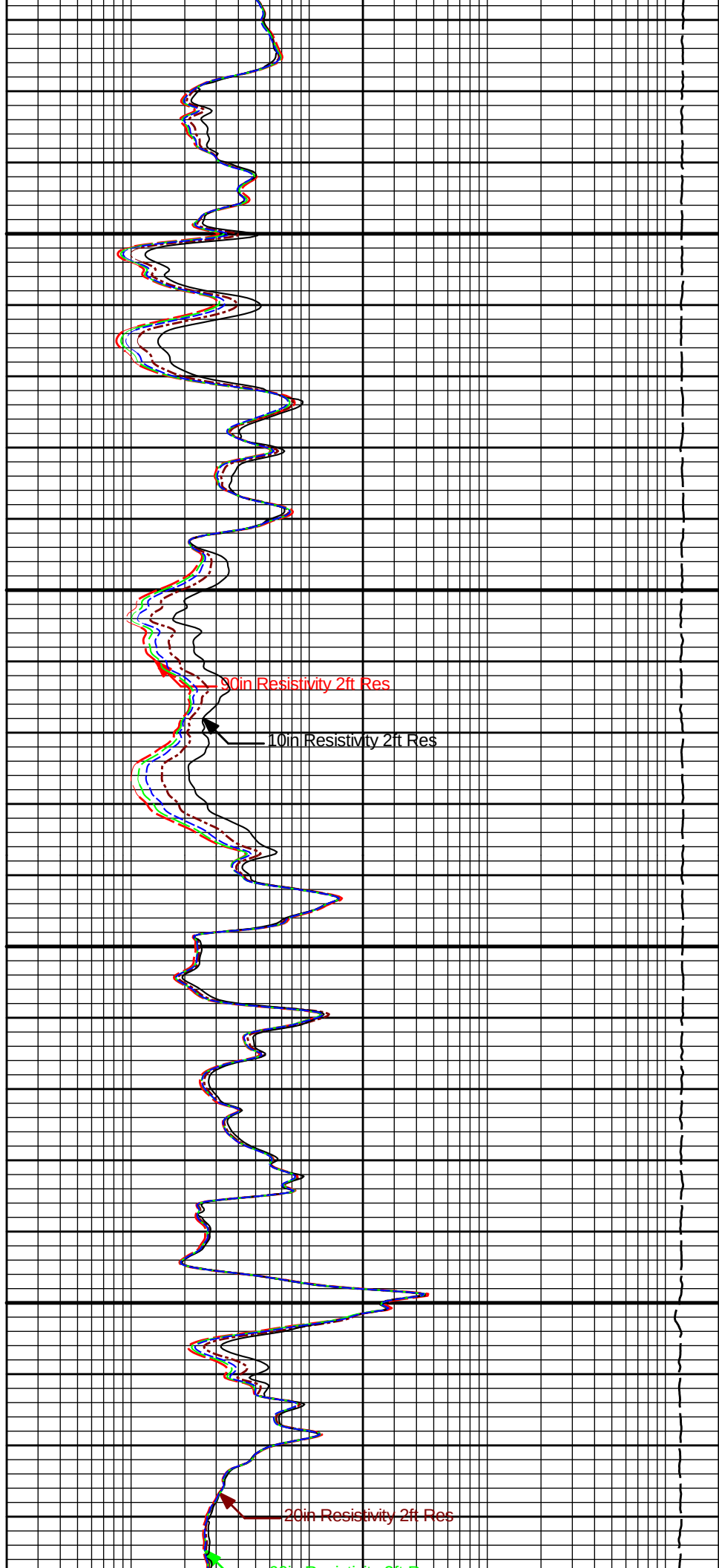
30in Resistivity 2ft Res

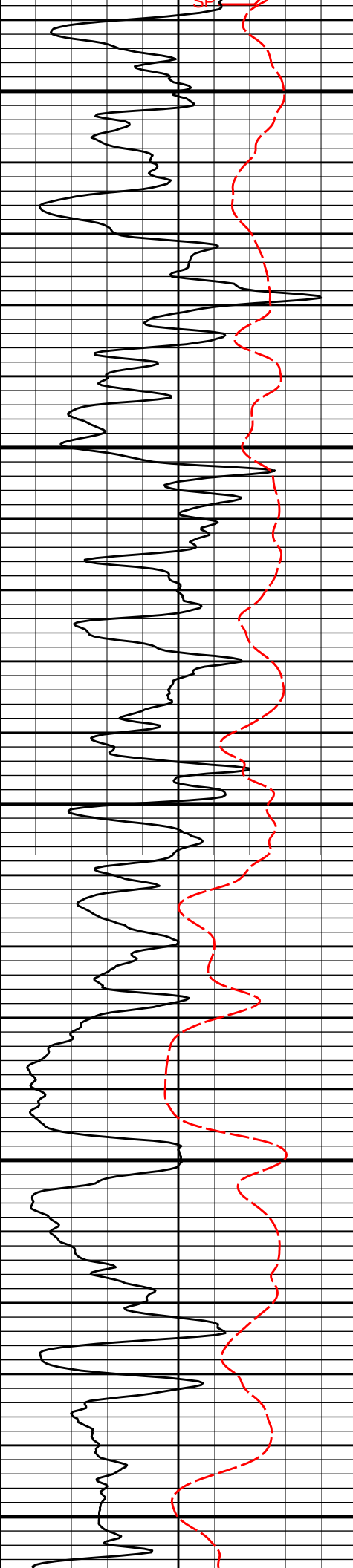




2100

2200

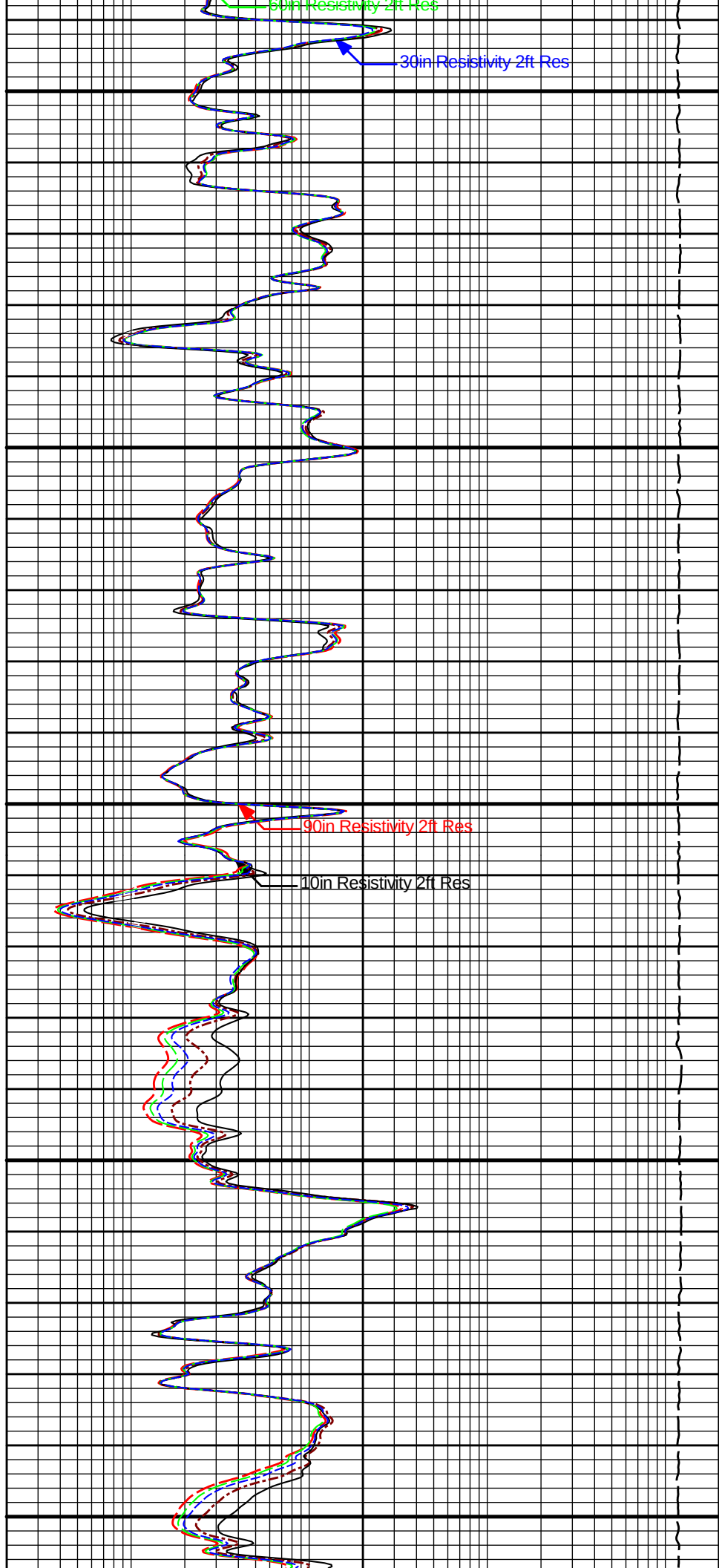


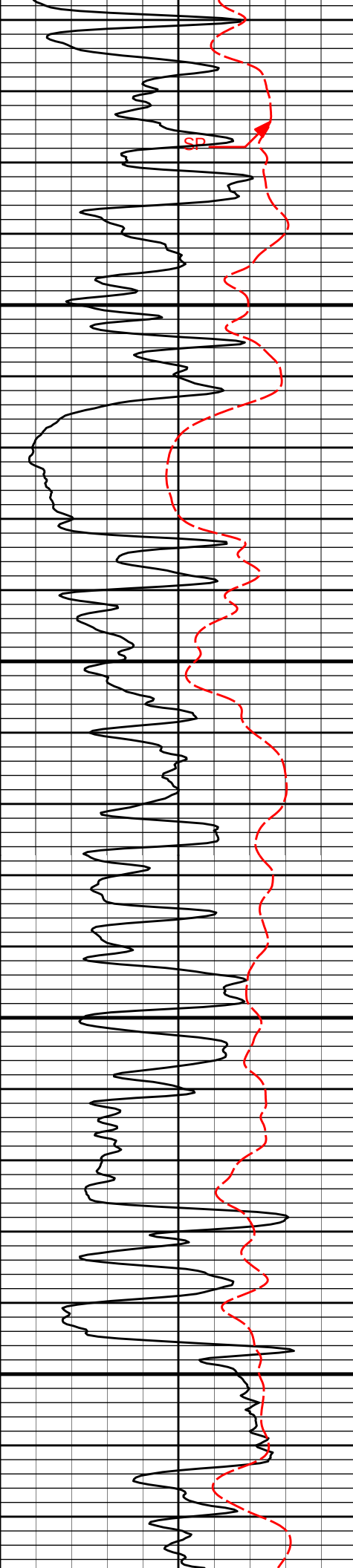


2300

2400

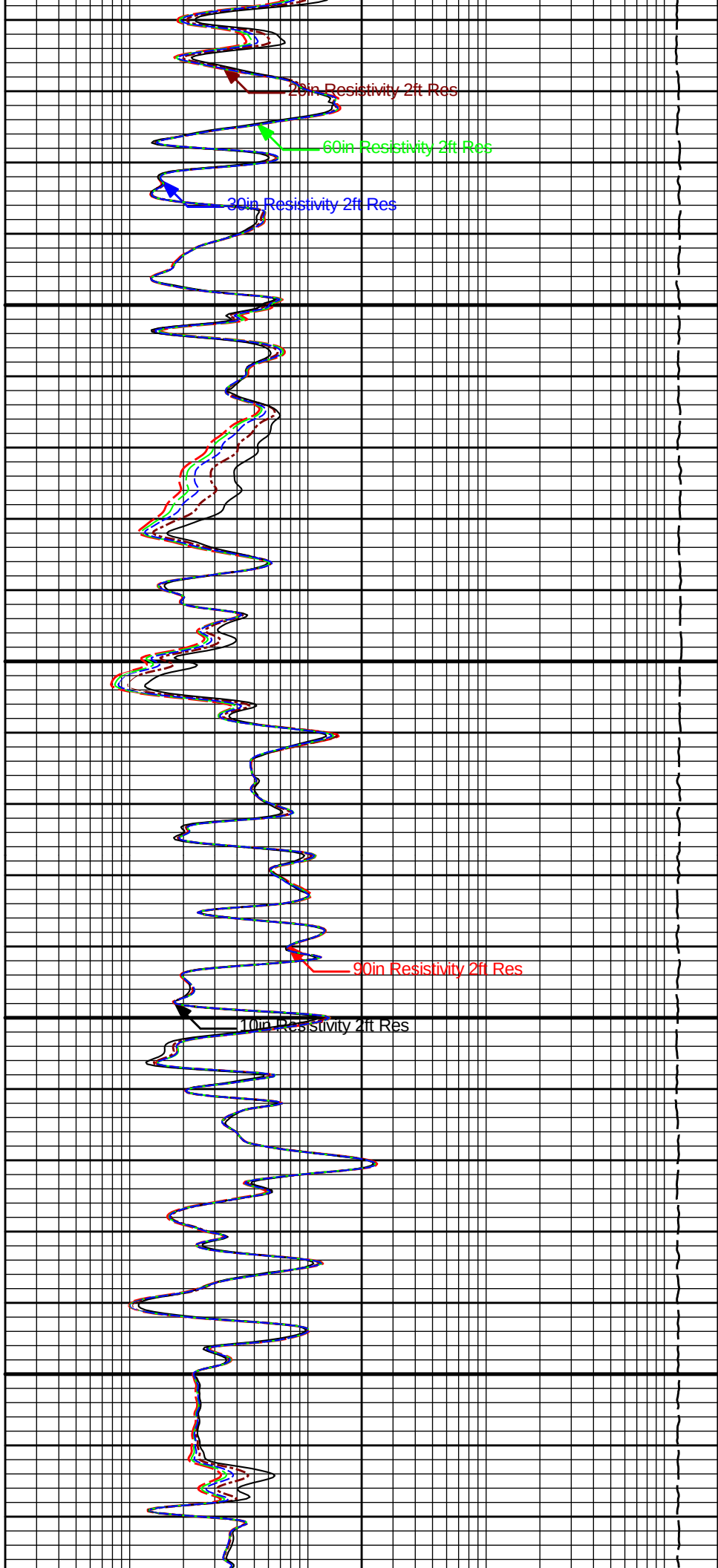
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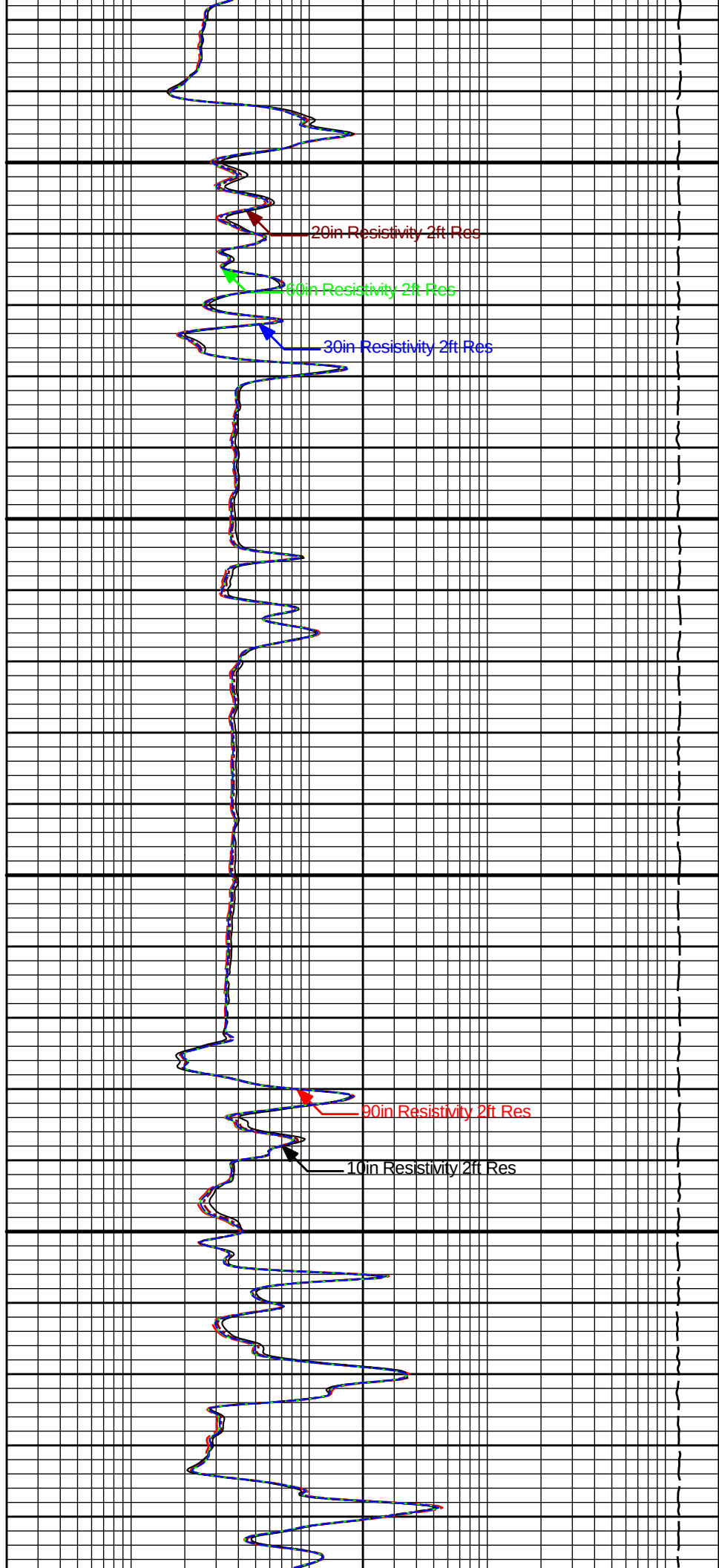
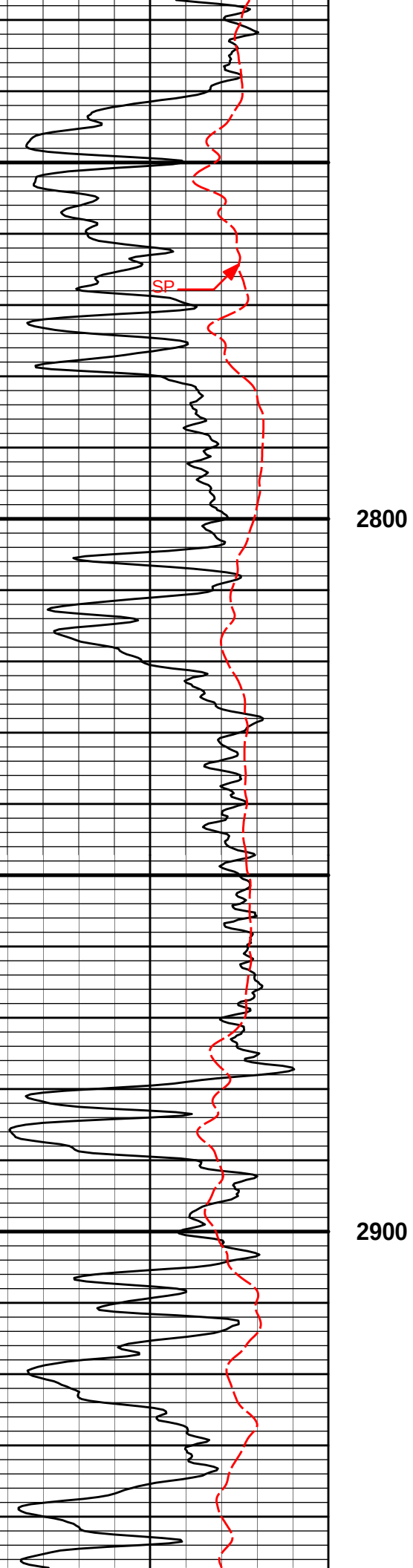


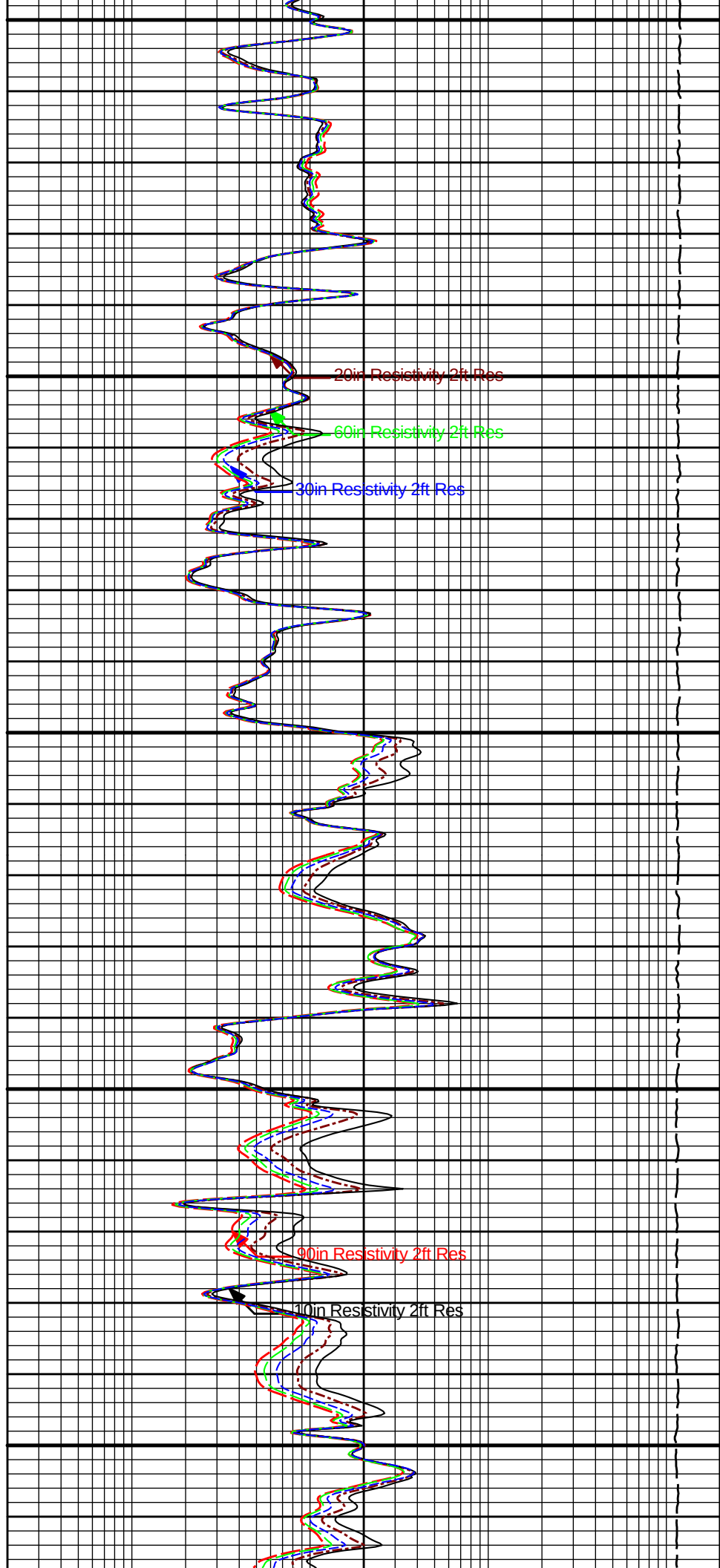
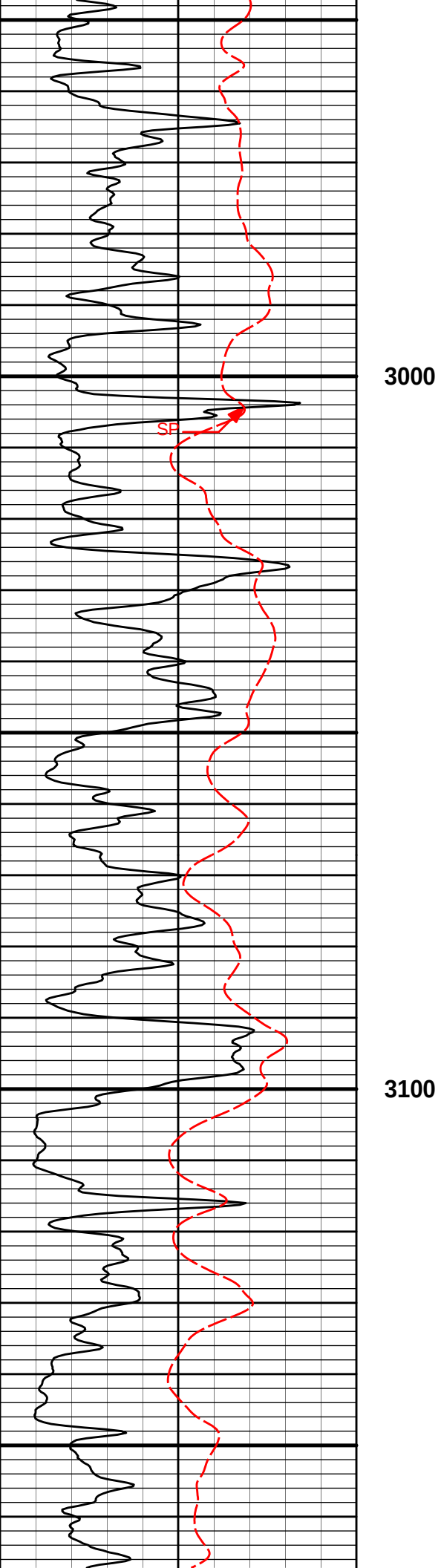


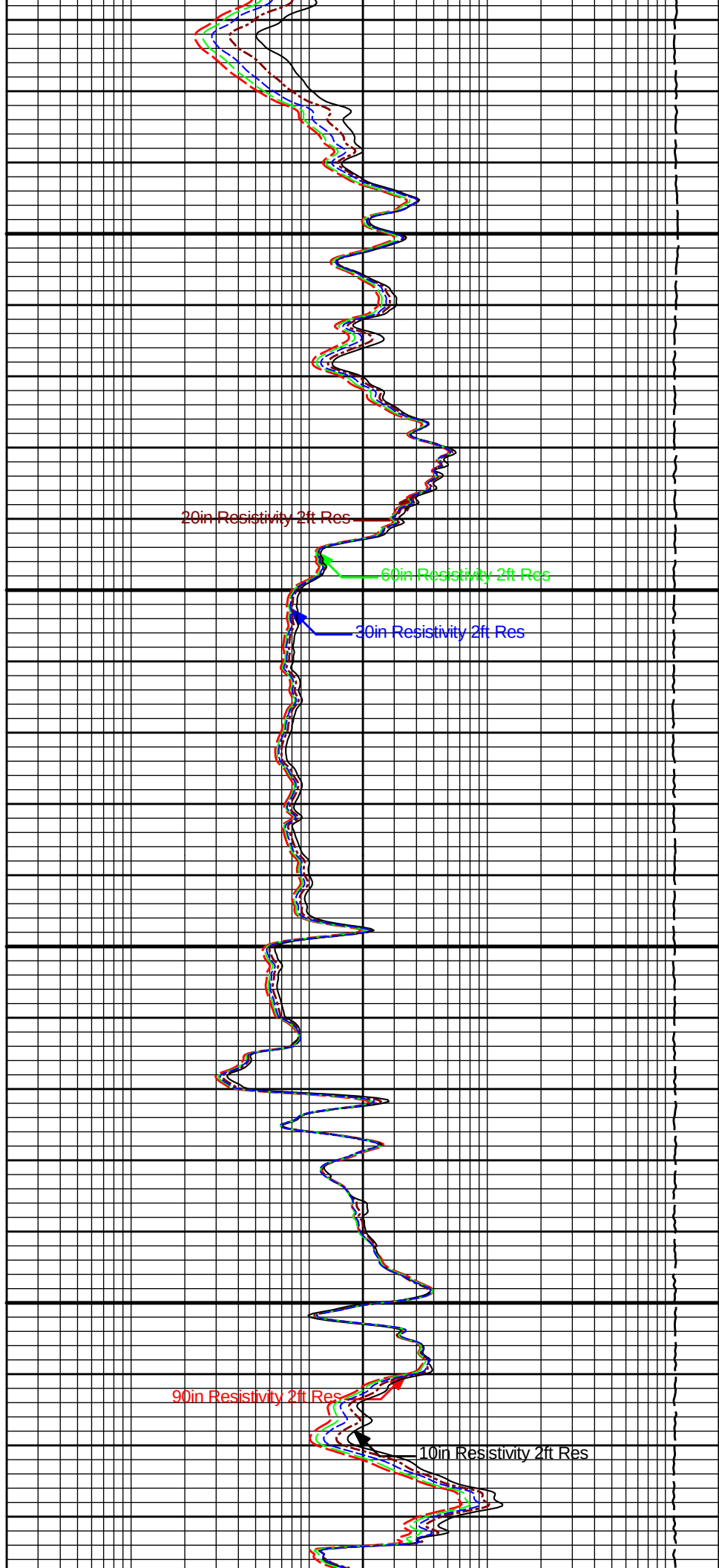
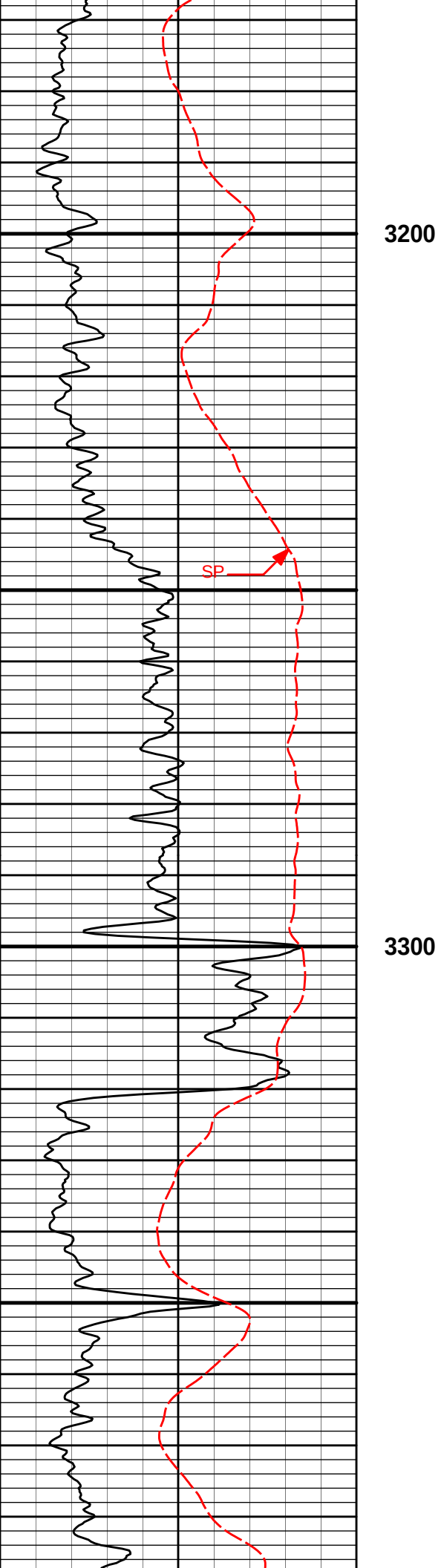
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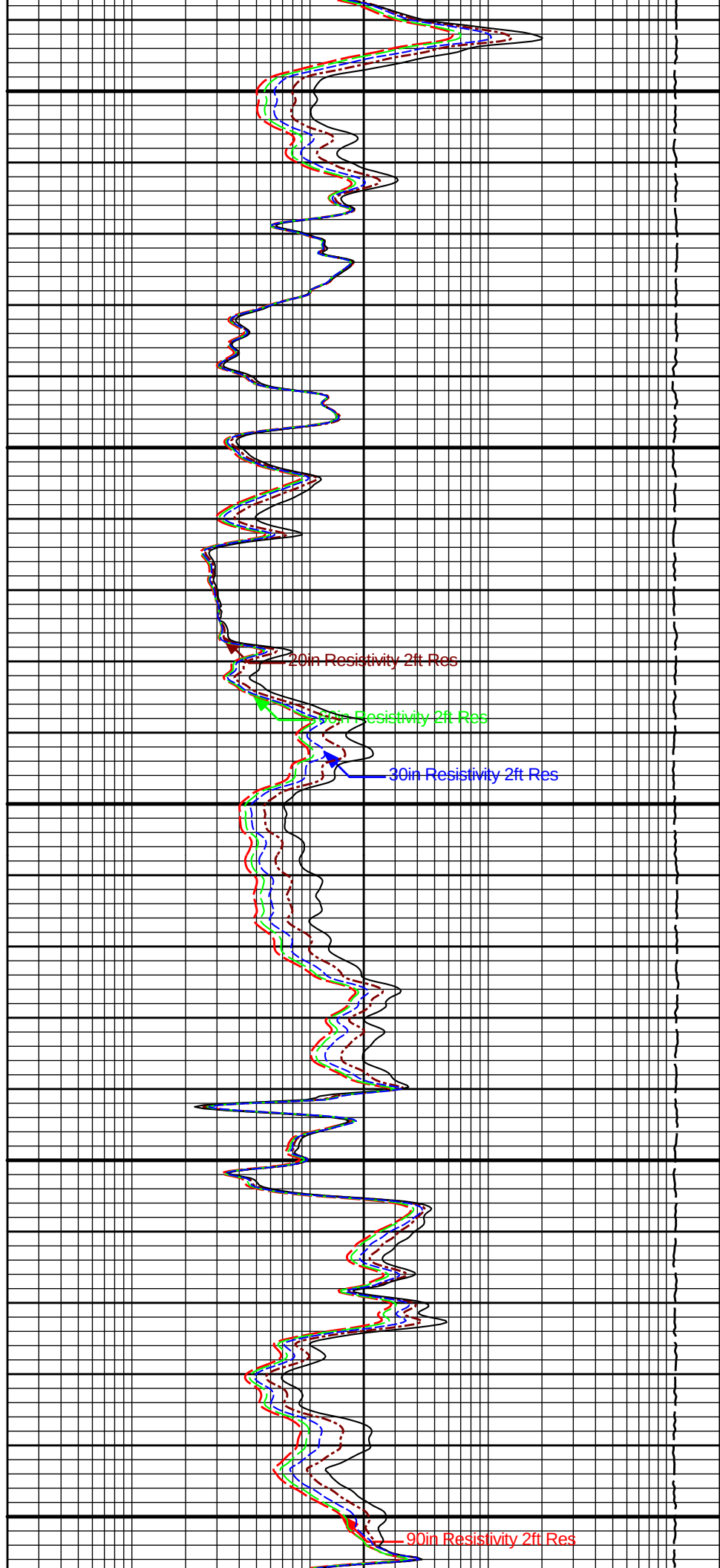
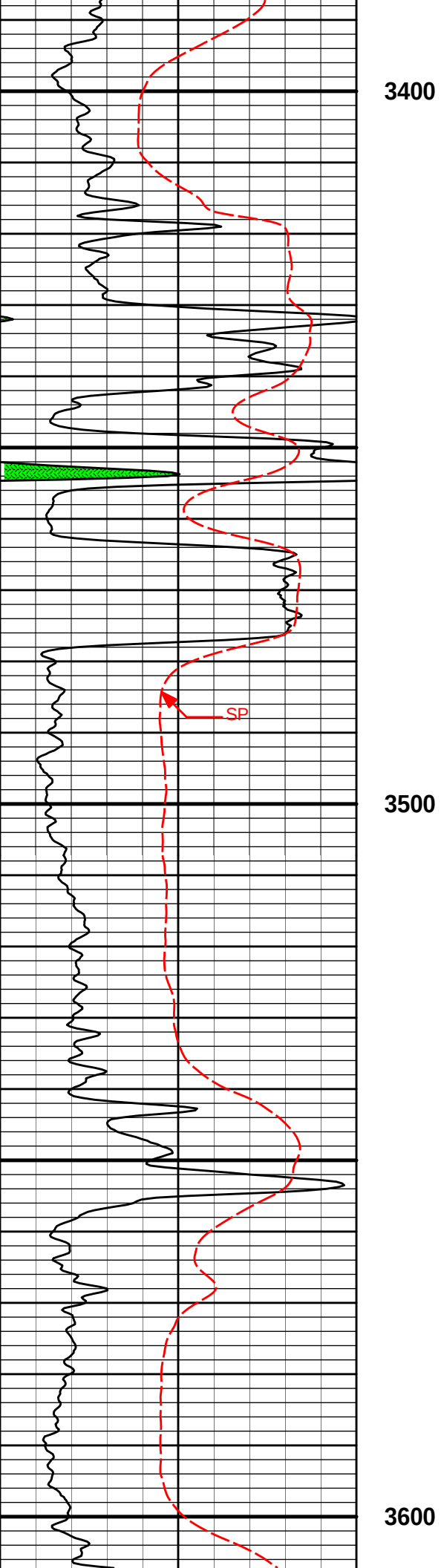
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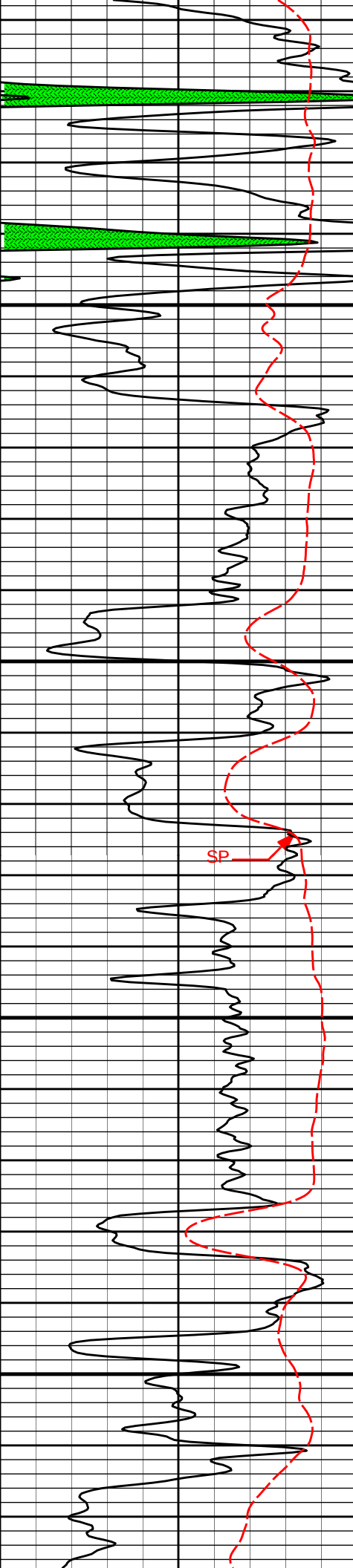






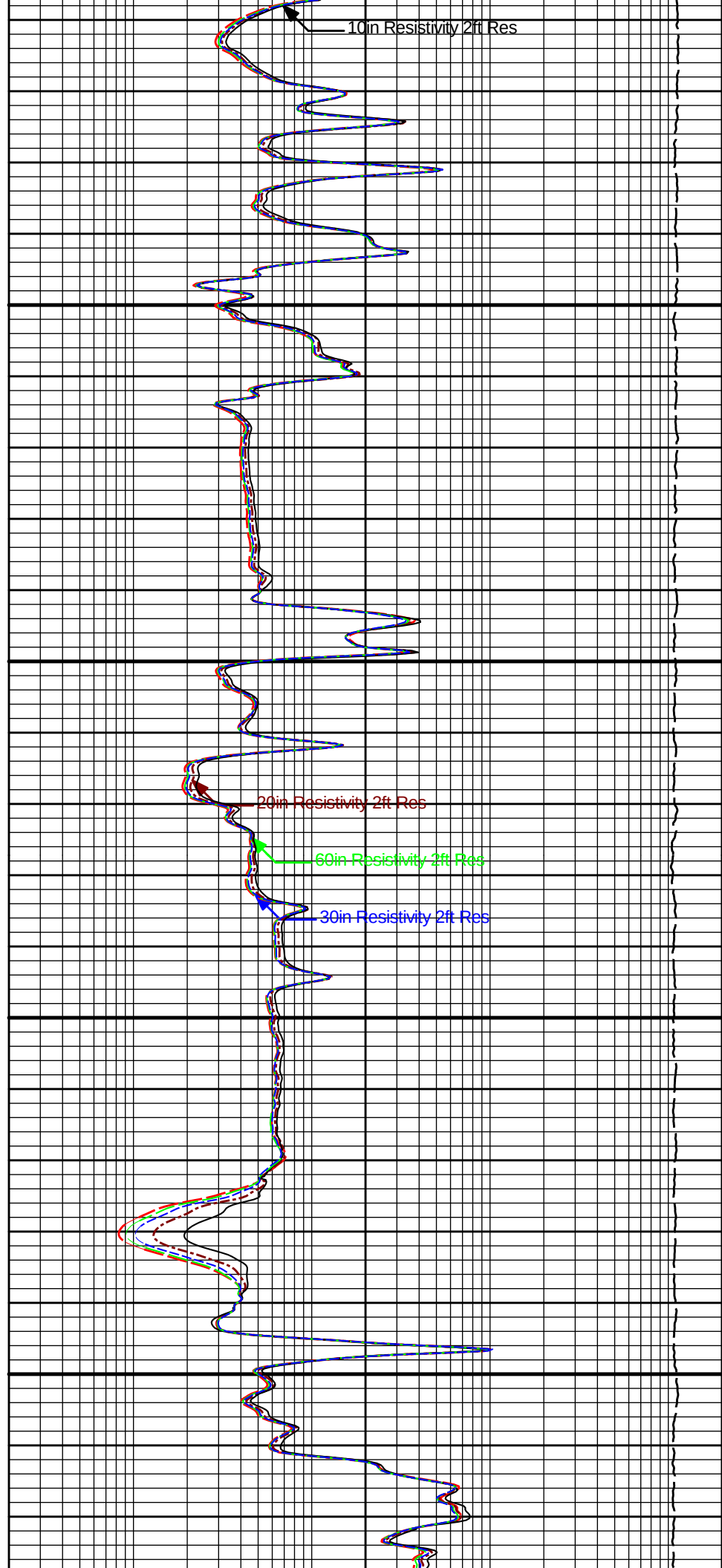






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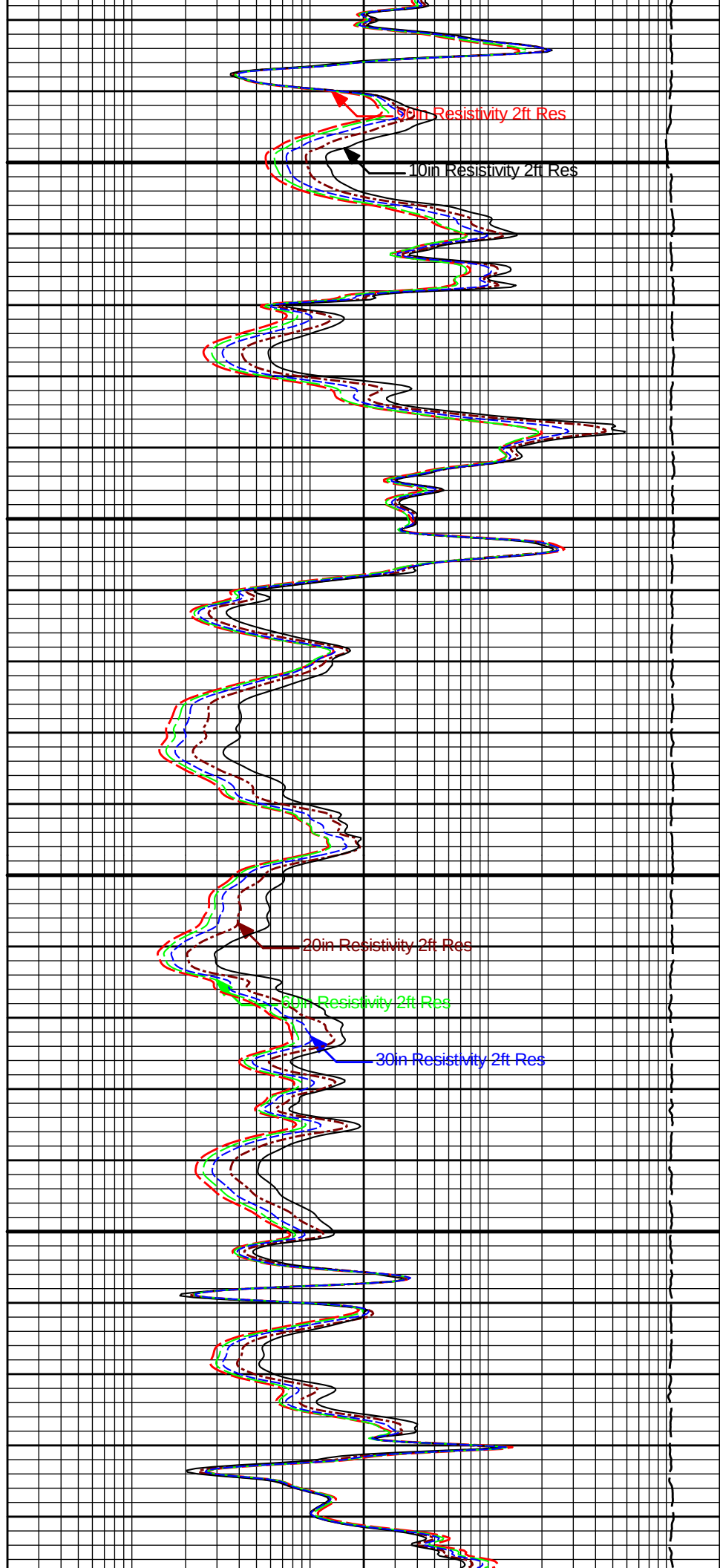
3800





3900

4000

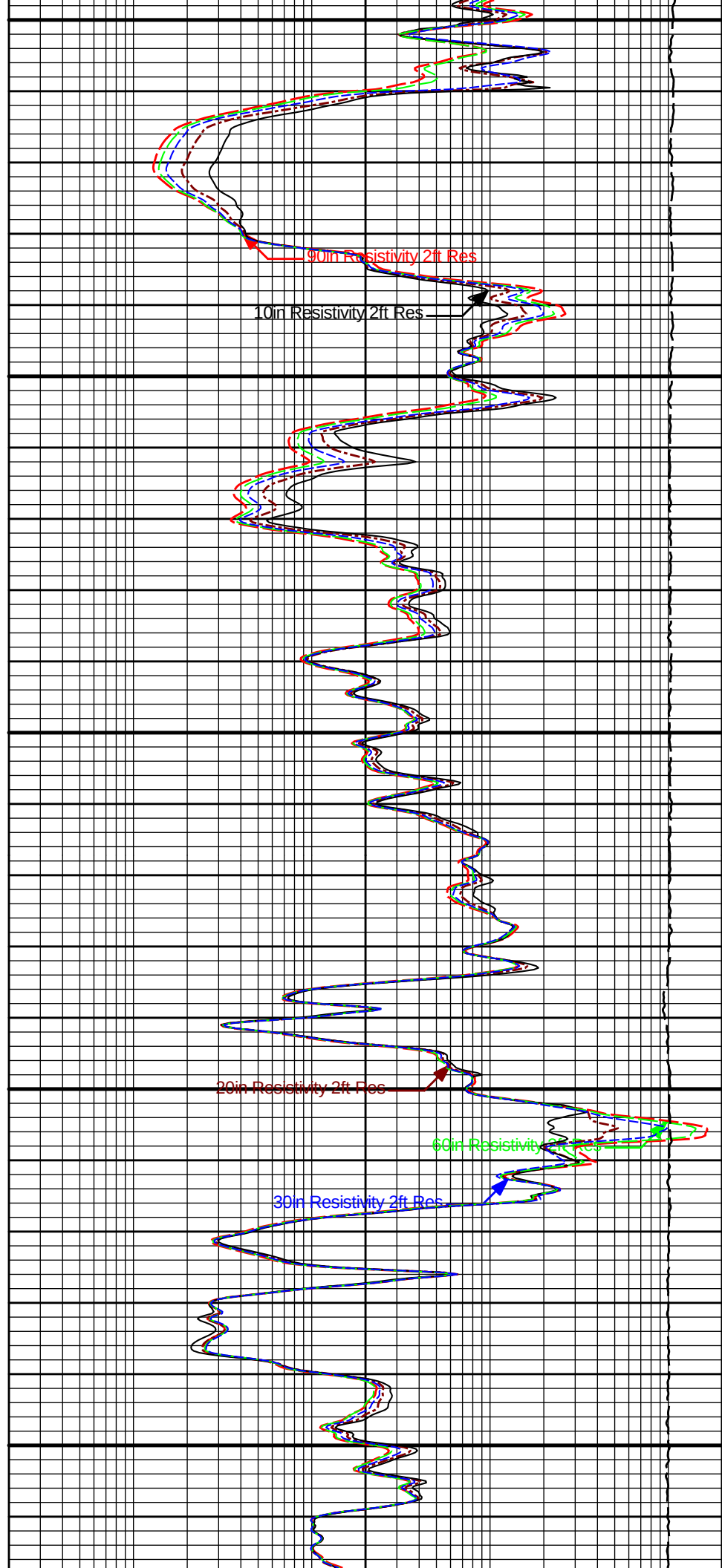




4100

4200

SP



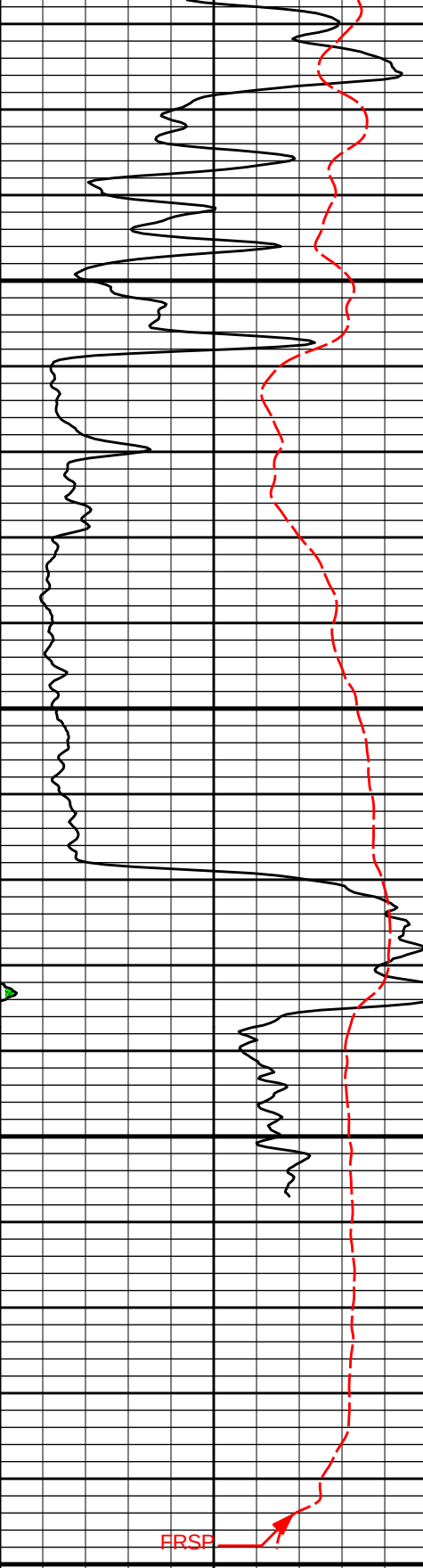
90in Resistivity 2ft Res

10in Resistivity 2ft Res

20in Resistivity 2ft Res

60in Resistivity 2ft Res

30in Resistivity 2ft Res

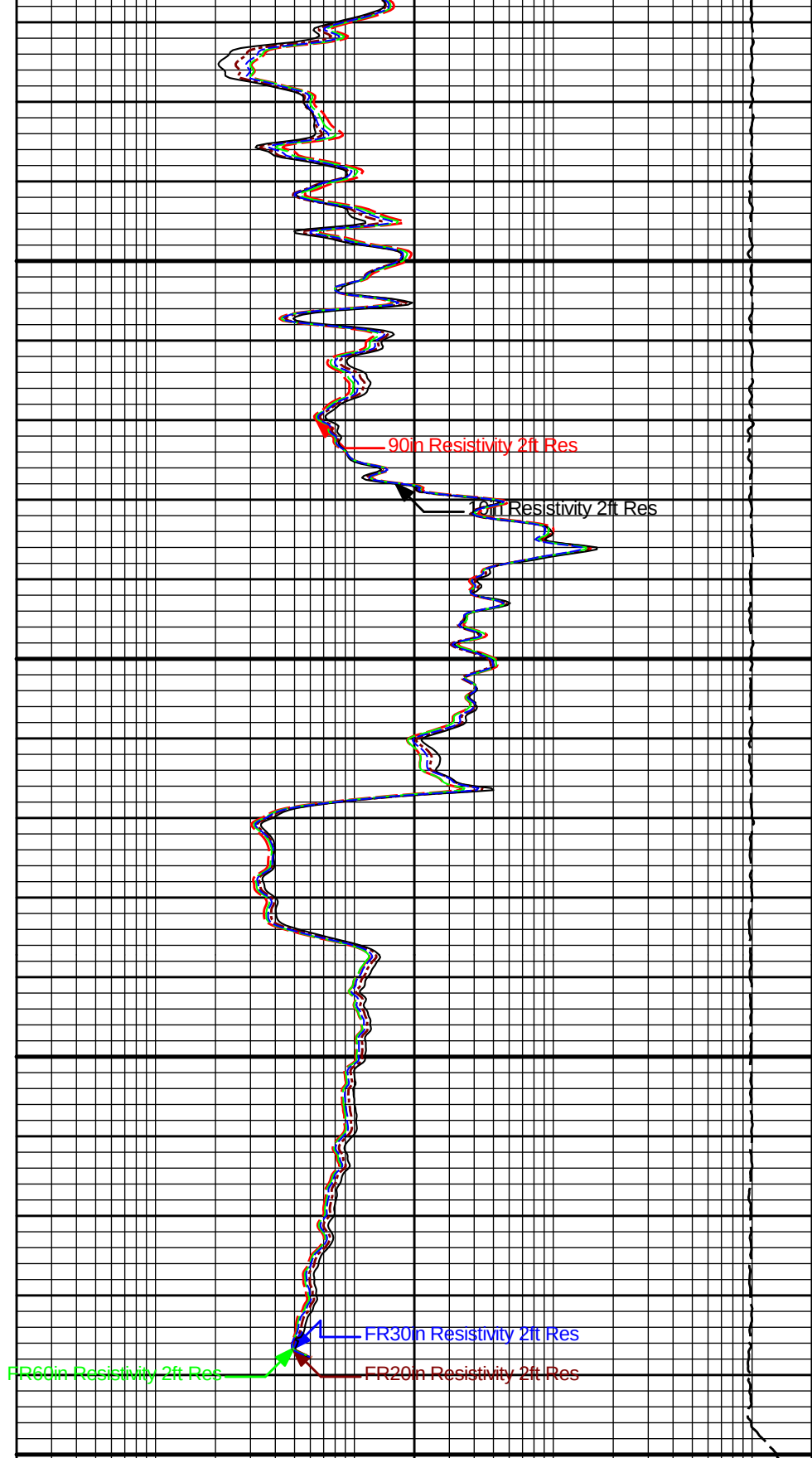


4300

4400

TD

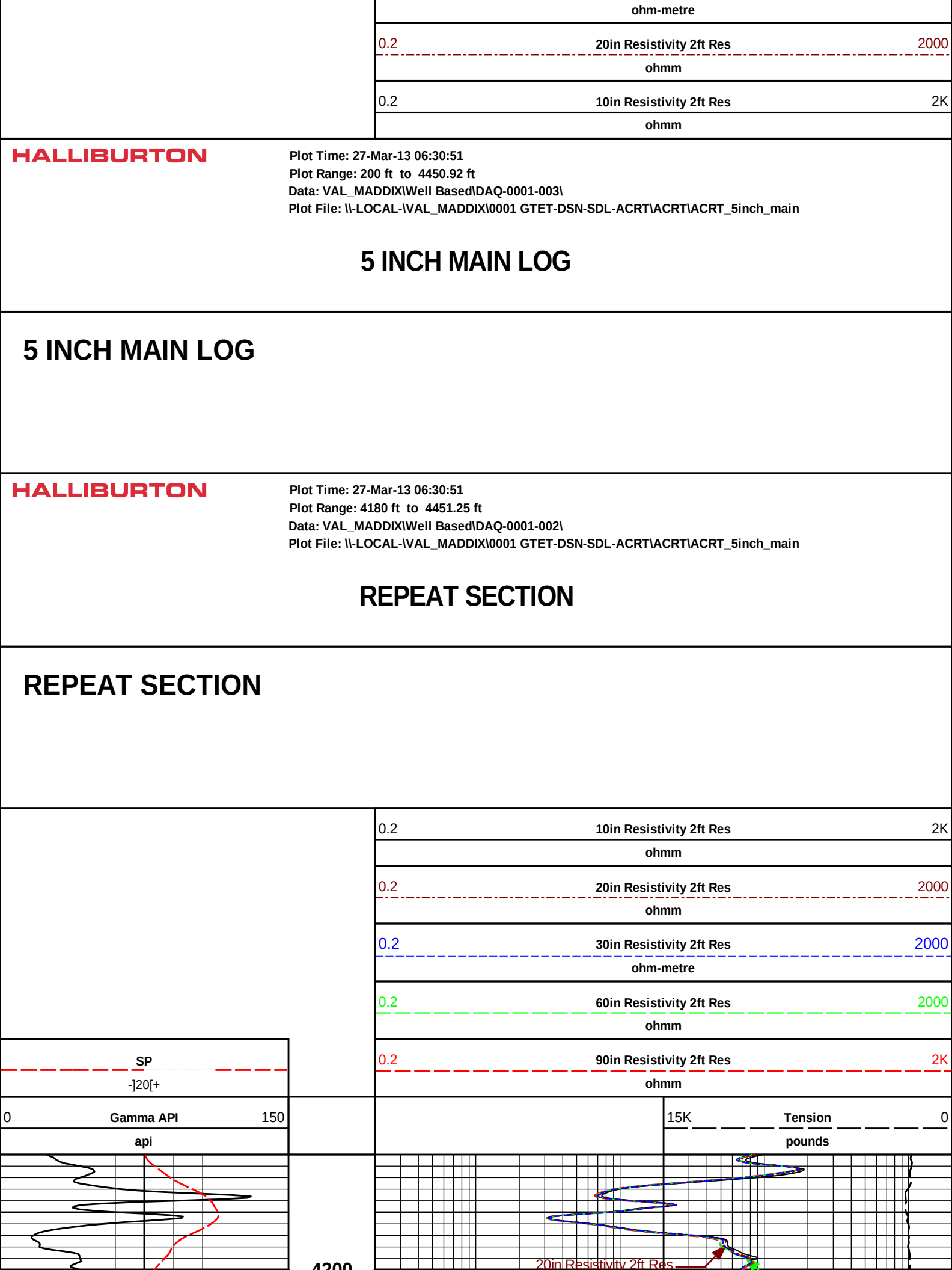
0	Gamma API	150
api		
SP		
-120[+		

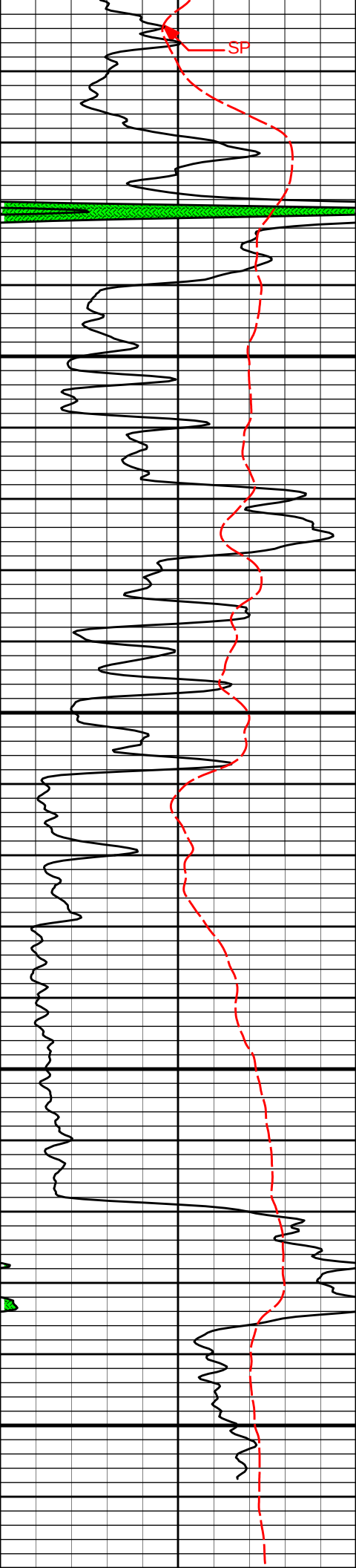


15K	Tension	0
pounds		
0.2	90in Resistivity 2ft Res	2K
ohmm		

0.2	60in Resistivity 2ft Res	2000
ohmm		

0.2	30in Resistivity 2ft Res	2000
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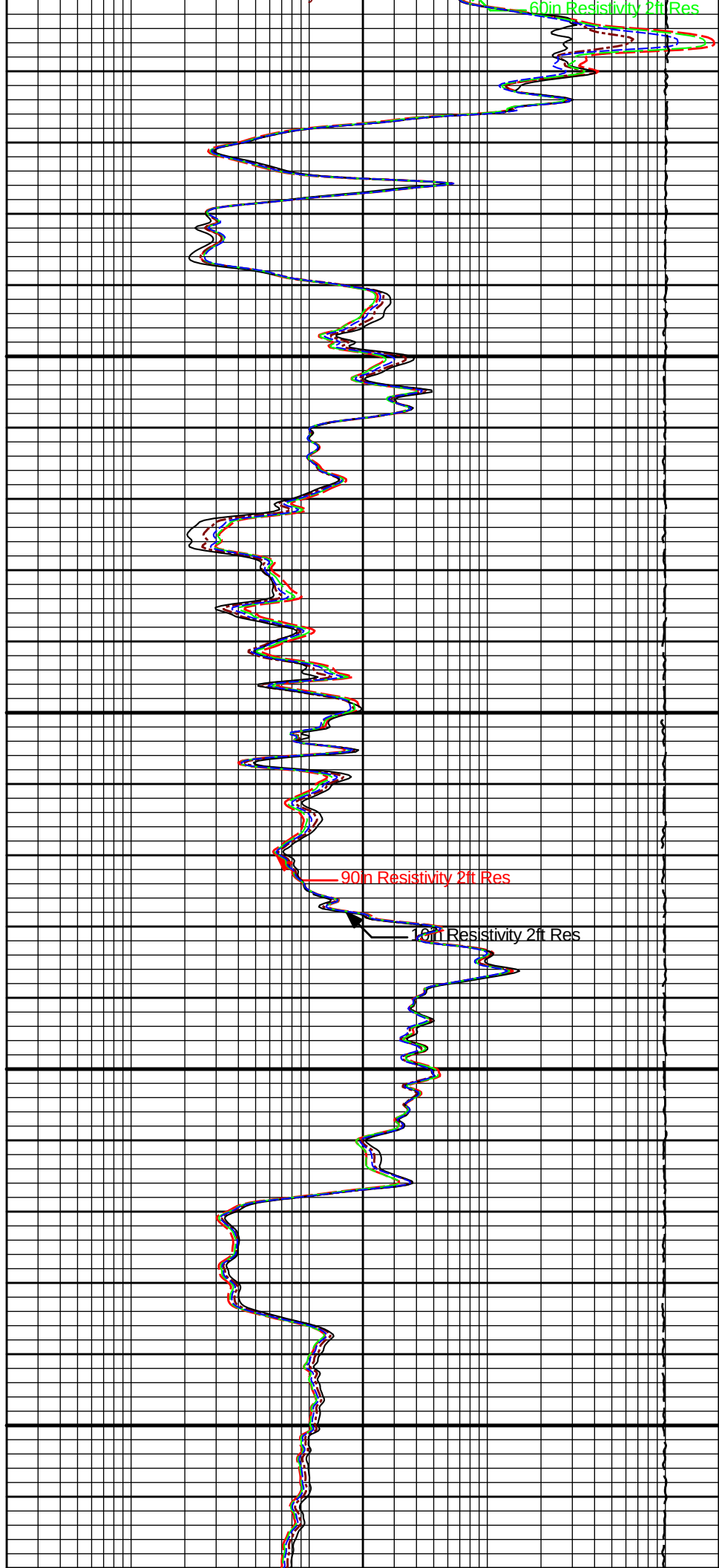


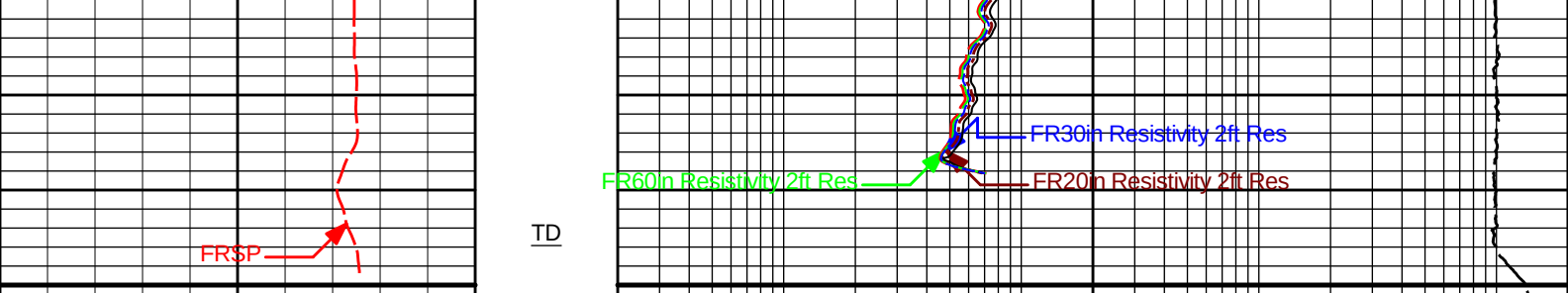


4200

4300

4400





0	Gamma API	150			15K	Tension	0
	api					pounds	
	SP						
	-]20[+						
			0.2	90in Resistivity 2ft Res		2K	
				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: 27-Mar-13 06:30:54
Plot Range: 4180 ft to 4451.25 ft
Data: VAL_MADDIX\Well Based\DAQ-0001-002\
Plot File: \\-LOCAL-\\VAL_MADDIX\0001 GTET-DSN-SDL-ACRT\ACRT\ACRT_5inch_main

REPEAT SECTION

REPEAT SECTION

HALLIBURTON

CALIBRATION REPORT

SURFACE TENSION SHOP CALIBRATION					
Tool Name:	Depth Panel - PROT01			Reference Calibration Date:	13-Jan-08 19:31:38
Engineer:	WHITLOCK			Calibration Date:	26-Mar-09 09:42:21
Software Version:	WL INSITE R2.4 (Build 1)			Calibration Version:	1
	SURFACE TENSION LOAD CELL				
	Measurement	Load Cell Value	Measurement	Calibrated	Units
	Low	9877.87	32908.03	0.00	lbs
	High	16448.28	55771.74	7800.00	lbs

DOWNHOLE TENSION SHOP CALIBRATION					
Tool Name:	CH_HOS - CH_HOS_I			Reference Calibration Date:	15-Dec-12 21:31:17
Engineer:	WHITLOCK			Calibration Date:	10-Feb-13 14:03:08

Software Version: WL INSITE R3.6.0 (Build 3)		Calibration Version: 1			
	DOWNHOLE LOAD CELL				
	Measurement	Tool Value	Measurement	Calibrated	Units
	Low	-476.87	35.01	0.00	lbs
	High	4695.02	1517.37	1100.00	lbs

NATURAL GAMMA RAY TOOL SHOP CALIBRATION				
Tool Name:	GTET - 10971172	Reference Calibration Date:	22-Feb-13 10:19:33	
Engineer:	HOFKAMP	Calibration Date:	13-Mar-13 11:03:10	
Software Version:	WL INSITE R3.6.0 (Build 3)	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	24.5	25.1	api
	Background + Calibrator	245.4	251.0	api
	Calibrator	220.8	225.9	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION				
Tool Name:	GTET - 10971172	Reference Calibration Date:	13-Mar-13 11:03:10	
Engineer:	WHITLOCK	Calibration Date:	27-Mar-13 03:43:37	
Software Version:	WL INSITE R3.6.0 (Build 3)	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	25.1	40.1	api
	Background + Calibrator	251.0	270.5	api
	Calibrator	225.9	230.4	api
	Shop	Field	Difference	Tolerance
	225.9	230.4	-4.5	+/- 9.00

ACCELEROMETER SHOP CALIBRATION					
Tool Name:	GTET - 10971172	Reference Calibration Date:	01-Jan-70 00:00:00		
Engineer:	WHITLOCK	Calibration Date:	20-Oct-08 14:40:55		
Software Version:	WL INSITE R2.2 (Build 2)	Calibration Version:	1		
	Horizontal-1 Telemetry	Horizontal-2 Telemetry	Vertical Telemetry	Units	
	-85.64	-67.18	-16422.00	cnts	
	Coefficient	Coefficient Value	Tolerance		
	Gain	-0.000061	----		
	Offset	-0.005	----		
	Noise	0.0000	0.0000 - 0.0000		
	Orientation	Measured	Tolerance	Calibrated	Tolerance
	Horizontal	-76.41	-0.10 - 0.10	0.00	-0.10 - 0.10
	Vertical	-16422.00	0.90 - 1.10	1.00	0.90 - 1.10

DUAL SPACED NEUTRON SHOP CALIBRATION			
Tool Name:	DSNT - 10951378	Reference Calibration Date:	08-Feb-13 12:26:14

Tool Name:	DSNT - 10951378	Reference Calibration Date:	08-Feb-13 12:26:14
Engineer:	HOFKAMP	Calibration Date:	13-Mar-13 10:03:57
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Logging Source S/N: DSN-373
Tank Serial Number: FTSM HORIZONTAL TANK
Reference value assigned to Tank: 56.100
Snow Block S/N: FTSM
Calibration Tank Water Temperature: 55 degF
Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.006	1.011	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):	0.2343	0.2358	0.0015	+/- 0.0020
Calibrated Ratio:	10.51	10.56	0.049	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0884	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 - 10951378	Reference Calibration Date:	13-Mar-13 10:03:57
Engineer:	WHITLOCK	Calibration Date:	27-Mar-13 03:47:19
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Logging Source S/N: DSN-373
Snow Block S/N: FTSM

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0884	0.0759	-0.0125	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - 10950477	Reference Calibration Date:	01-Jan-70 00:00:00
Engineer:	WHITLOCK	Calibration Date:	10-Dec-12 12:17:06
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1
Host Tool Name:	DSNT - 10951378		

CALIBRATION COEFFICIENTS			
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Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-3368.16	-3368.16	-7000.00 - -1000.00
Pad Gain	0.0003806	0.0003806	0.000200 - 0.000600
Arm Offset	-3267.02	-3267.02	-5000.00 - 3000.00
Arm Gain	0.0005532	0.0005532	0.000300 - 0.000700
Arm Power	-0.000007075	-0.000007075	-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

SDLT CALIPER FIELD CALIBRATION			
Tool Name:	SDLT - 10950477	Reference Calibration Date:	10-Dec-12 12:17:06
Engineer:	WHITLOCK	Calibration Date:	10-Dec-12 12:18:30
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.75	-0.00	+/- 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 - 10952708	Reference Calibration Date:	04-Oct-12 09:04:59
Engineer:	HOFKAMP	Calibration Date:	13-Mar-13 09:12:33
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1
Host Tool Name:	ACRt Instrument - 10967816		

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.05	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A2 (50")	0.95	1.04	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A3 (29")	0.95	1.04	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A4 (17")	0.95	1.04	1.05	0.95	1.01	1.05	0.95	1.01	1.05

A5 (10")	N/A	N/A	N/A	0.95	1.01	1.05	0.95	1.00	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.00	1.05	0.95	0.99	1.05
TYPICAL SONDE OFFSET RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	1.01	2	-6	-4.52	-2	-8	-5.85	-2
A2 (50")	-7	0.36	0	-7	-3.72	0	-7	-5.33	0
A3 (29")	-27	-12.77	-9	-9	-4.53	-3	-7	-4.33	-1
A4 (17")	-180	-100.31	-60	-45	-31.13	-15	-39	-25.13	-13
A5 (10")	N/A	N/A	N/A	-150	-101.40	-50	-80	-48.30	-10
A6 (6")	N/A	N/A	N/A	175	328.98	525	90	167.04	270
TRANSMITTER CURRENT GAIN						R-MUD VERIFICATION			
Signal	Lower		R	Upper		Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K		0.6	0.84	1.3		Mud Cell	0.95	1.00	1.05
36K		1.0	1.16	2.0					
72K		1.0	1.32	2.0					
PASS/FAIL SUMMARY									
GAIN RANGE CHK						PASS			
SONDE OFFSET RANGE CHK						FAIL			
Tx CURRENT GAIN						PASS			
Rmud VERIFICATION						PASS			
TOOL OUT OF TOLERANCE									

SPECTRAL DENSITY SHOP CALIBRATION			
Tool Name:	SDLT Pad - 10865870	Reference Calibration Date:	08-Feb-13 11:58:25
Engineer:	HOFKAMP	Calibration Date:	13-Mar-13 10:57:08
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Logging Source S/N: 20784B			
Aluminum Block S/N: FTSM AL BLOCK		Density: 2.581g/cc	Pe: 3.170
Magnesium Block S/N: FTSM MG BLOCK		Density: 1.687g/cc	Pe: 2.594
DENSITY CALIBRATION SUMMARY			
Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	1.0347	1.0345	0.90 - 1.10
Near Dens Gain	1.0255	1.0275	0.90 - 1.10
Near Peak Gain	1.0441	1.0367	0.90 - 1.10
Near Lith Gain	1.0509	1.0649	0.90 - 1.10
Far Bar Gain	1.0104	1.0075	0.90 - 1.10
Far Dens Gain	1.0013	0.9986	0.90 - 1.10
Far Peak Gain	0.9996	0.9989	0.90 - 1.10
Far Lith Gain	0.9776	0.9760	0.90 - 1.10
Near Bar Offset	-0.1069	-0.1109	NONE
Near Dens Offset	-0.0371	-0.0565	NONE
Near Peak Offset	-0.1982	-0.1378	NONE
Near Lith Offset	-0.2792	-0.3983	NONE
Far Bar Offset	0.0568	0.0791	NONE
Far Dens Offset	0.1080	0.1277	NONE

Far Peak Offset	0.0850	0.0815	NONE
Far Lith Offset	0.2082	0.2104	NONE
Near Bar Background	878.52	876.19	700 - 1450
Near Dens Background	288.27	286.66	230 - 480
Near Peak Background	126.53	125.39	100 - 210
Near Lith Background	154.97	153.87	125 - 260
Far Bar Background	530.98	531.44	450 - 900
Far Dens Background	206.14	207.07	175 - 345
Far Peak Background	81.68	81.62	70 - 140
Far Lith Background	85.70	84.68	75 - 145

CALIBRATION BLOCK SUMMARY				
Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.685	1.687	0.002	+/- 0.015
Pe	2.579	2.549	-0.030	+/- 0.150
ALUMINUM				
Density (g/cc)	2.581	2.581	0.000	+/- 0.01500
Pe	3.135	3.122	-0.013	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0013	+/- 0.0110	-0.0030	+/- 0.0140
Magnesium Block	-0.0014	+/- 0.0110	-0.0020	+/- 0.0140
Aluminum Block	0.0004	+/- 0.0110	0.0009	+/- 0.0140
Resolution	9.22	6.00 - 11.50	8.83	6.00 - 11.50
Internal Verifier(B+D+P+L)	1442	1200 - 2700	905	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 - 10865870	Reference Calibration Date:	13-Mar-13 10:57:08
Engineer:	WHITLOCK	Calibration Date:	27-Mar-13 03:44:03
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Pad Temperature: 43.5 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1442.119	1450.399	8.280	15.321
Far (B+D+P+L) cps	904.806	903.677	-1.129	16.344

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

Tool Name:	Microlog Pad - 10950477	Reference Calibration Date:	30-Nov-12 11:36:34
Engineer:	WHITLOCK	Calibration Date:	08-Feb-13 11:29:41
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1
Host Tool Name:	DSNT - 10951378		

Measurement	Micro Log Normal Tool Value	Micro Log Lateral Tool Value	Units
Tool Zero	-0.93	0.10	V
Calibration Point #1	24.50	3.18	V
Calibration Point #2	5268.10	6843.06	V
Internal Reference	5244.13	6849.93	V

Tool Name:	Microlog Pad - 10950477	Reference Calibration Date:	08-Feb-13 11:29:41
Engineer:	WHITLOCK	Calibration Date:	27-Mar-13 03:42:01
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Summary				
Signal	Shop	Field	Difference	Tolerance
Microlog Normal	19.91	19.88	0.03	+/- 0.80
Microlog Lateral	20.02	19.98	0.04	+/- 0.80

Sensor	Shop	Field	Post	Difference	Tolerance	Units
Depth Panel-PROT01						
Tension Zero	0.00	-----	-----	0.00	-----	lbs
Tension Cal	7800.00	-----	-----	0.00	-----	lbs
CH_HOS-CH_HOS_I						
DH Tension Zero	0.00	-----	-----	0.00	-----	lbs
DH Tension Cal	1100.00	-----	-----	0.00	-----	lbs
GTET-10971172						

Gamma Ray Calibrator	225.9	230.4	-----	-4.5	+/- 9.00	api
DSNT-10951378						
Snow-Block Porosity	0.0884	0.0759	-----	0.0125	+/- 0.0150	decp
SDLT-10950477						
Pad Extension	3.75	3.75	-----	0.00	+/-0.10	in
Ring Diameter	8.25	8.25	-----	0.00	+/-0.15	in
ACRt Sonde-10952708						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
SDLT Pad-10865870						
Near(B+D+P+L)	1442.119	1450.399	-----	-8.280	+/-15.321	cps
Far(B+D+P+L)	904.806	903.677	-----	1.129	+/-16.344	cps
Microlog Pad-10950477						
MicroLog Normal	19.91	19.88	-----	0.03	+/-0.80	ohmm
MicroLog Lateral	20.02	19.98	-----	0.04	+/-0.80	ohmm

Data: VAL_MADDIX\0001 GTET-DSN-SDL-ACRT\IDLE
Date: 27-Mar-13 03:47:40

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	9.400	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	2.000	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	ST	Surface Temperature	75.0	degF
	SHARED	TD	Total Well Depth	4450.00	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	Temperature Master Tool	NONE	
	SHARED	BHSM	Borehole Size Master Tool	NONE	
	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	
	GTET	GROK	Process Gamma Ray?	Yes	

GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	No	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
DSNT	DNOK	Process DSN?	Yes	
DSNT	DEOK	Process DSN EVR?	No	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DSNO	DSN Standoff - 0.25 in (6.35 mm) Recommended	0.250	in
DSNT	DNTP	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	
SDLT	CLOK	Process Caliper 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
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
ACRt Sonde	RTOK	Process ACRT?	Yes	
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50	in
ACRt Sonde	TCS1	Temperature Correction Source	FP Lwr & FP Up	
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	RMIN	Maximum Resistivity for MAP	200.00	ohmm
ACRt Sonde	THQY	Threshold Quality	0.50	
ACRt Sonde	MRFX	Fixed mud resistivity	2000	ohmm

BOTTOM_____

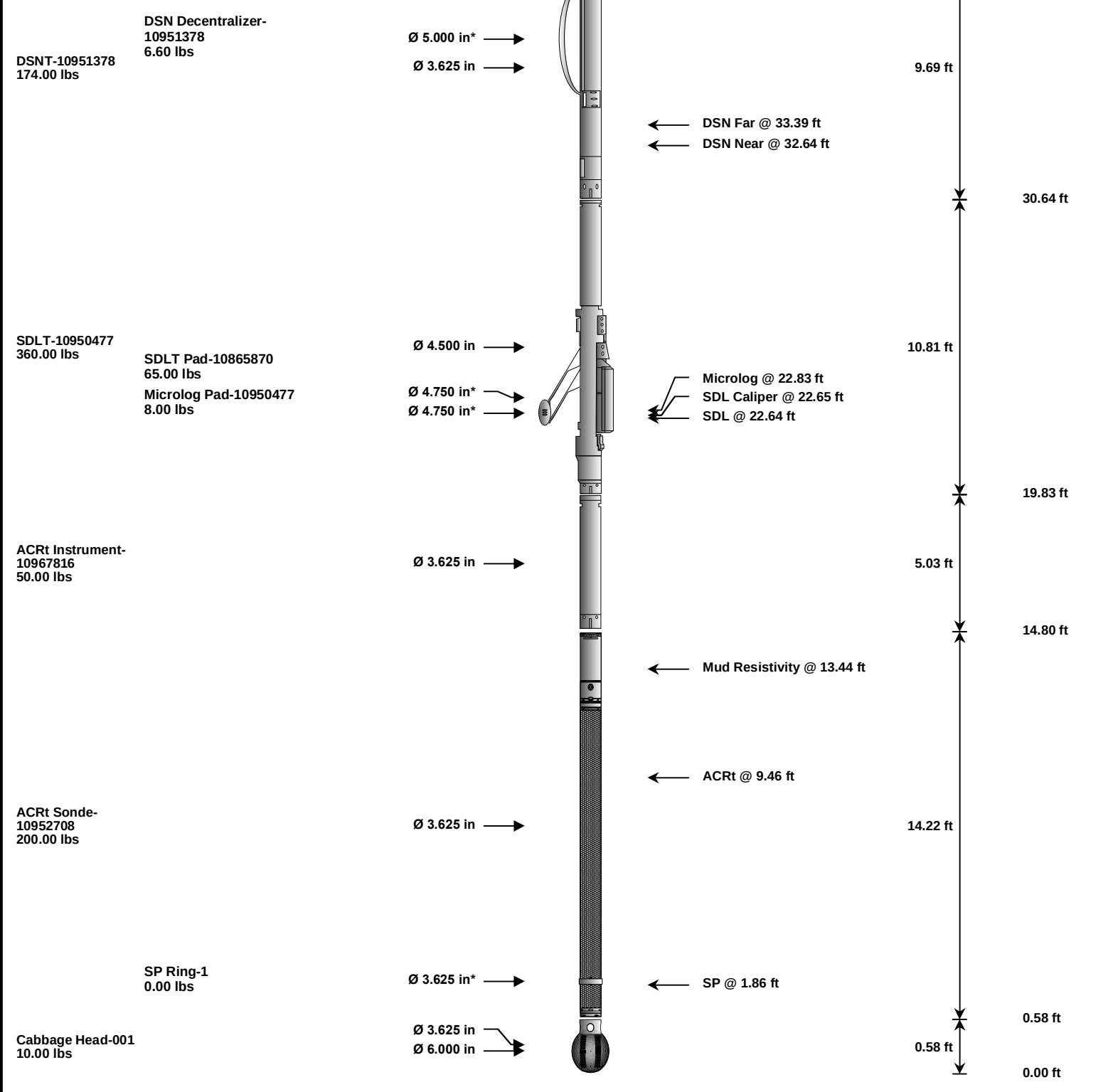
Data: VAL_MADDIX\0001 GTET-DSN-SDL-ACRT\IDLE

Date: 27-Mar-13 03:25:30

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TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS_I 37.50 lbs		Ø 2.750 in →		← Temperature @ 50.85 ft	3.25 ft	52.10 ft
						48.85 ft
GTET-10971172 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.79 ft	8.52 ft	
						40.33 ft



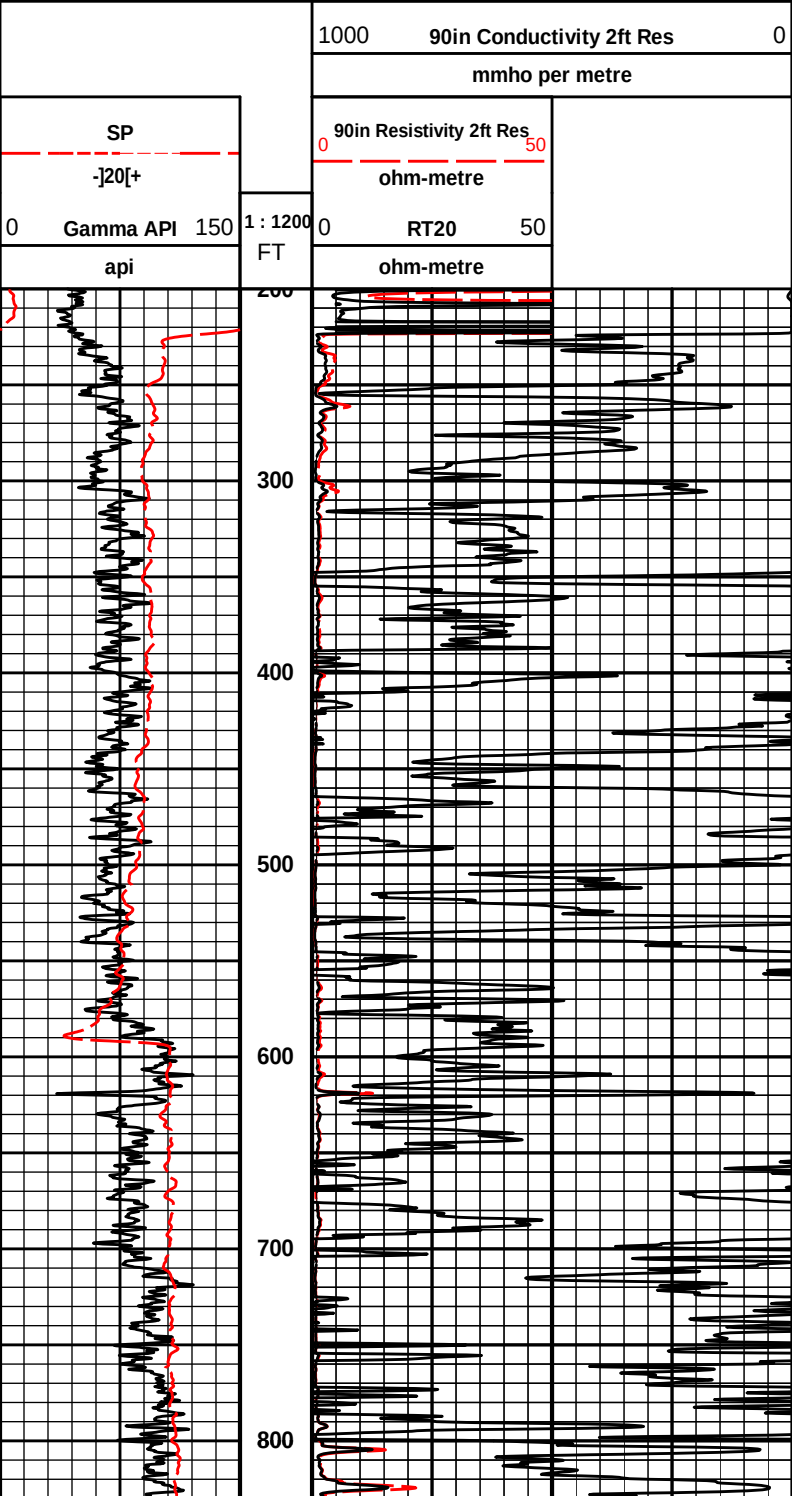
Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	CH_HOS_I	37.50	3.25	48.85	300.00
GTET	Gamma Telemetry Tool	10971172	165.00	8.52	40.33	60.00
DSNT	Dual Spaced Neutron	10951378	174.00	9.69	30.64	60.00
DCNT	DSN Decentralizer	10951378	6.60	5.13	* 33.97	300.00
SDLT	Spectral Density Tool	10950477	360.00	10.81	19.83	60.00
SDLP	Density Insite Pad	10865870	65.00	2.55	* 22.04	60.00
MICP	Microlog Pad	10950477	8.00	1.00	* 22.33	60.00
ACRt	Array Compensated True Resistivity Instrument Section	10967816	50.00	5.03	14.80	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10952708	200.00	14.22	0.58	300.00
SP	SP Ring	1	0.00	0.25	* 1.86	300.00
CBHD	Cabbage Head	001	10.00	0.58	0.00	300.00
Total			1,076.10	52.10		
* Not included in Total Length and Length Accumulation.						
Data: VAL_MADDIX\0001 GTET-DSN-SDL-ACRT\IDLE					Date: 27-Mar-13 03:26:20	

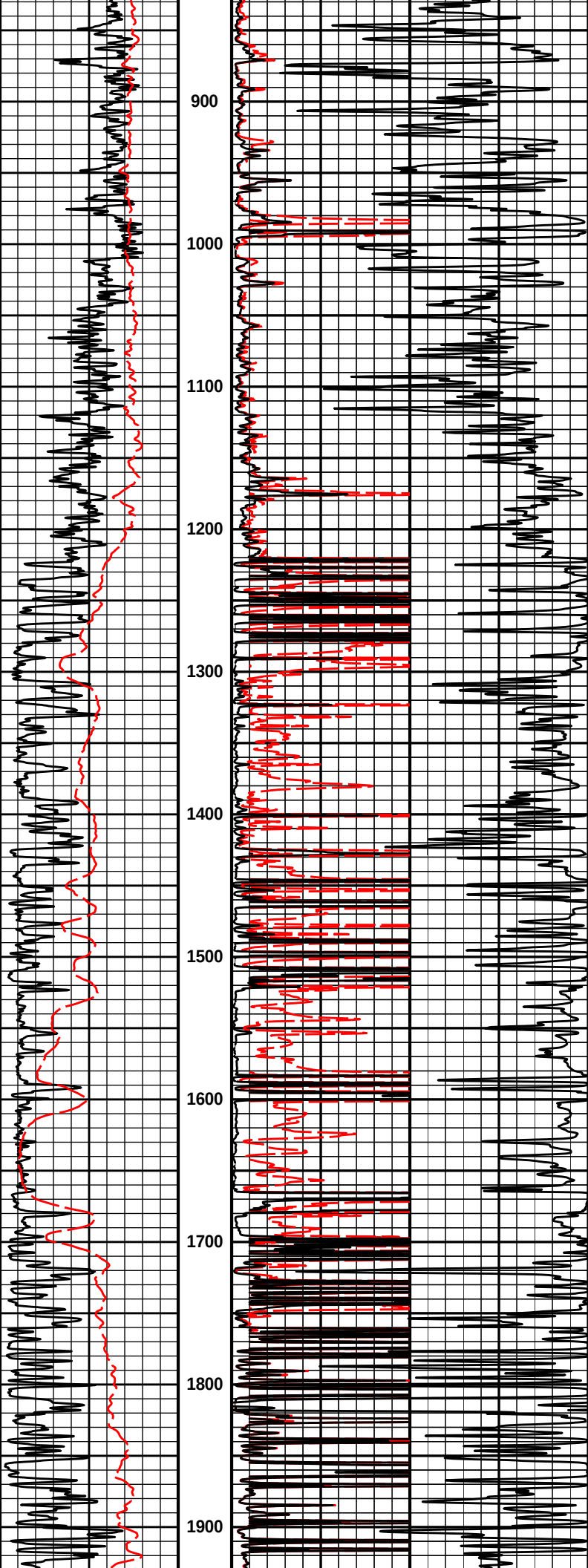
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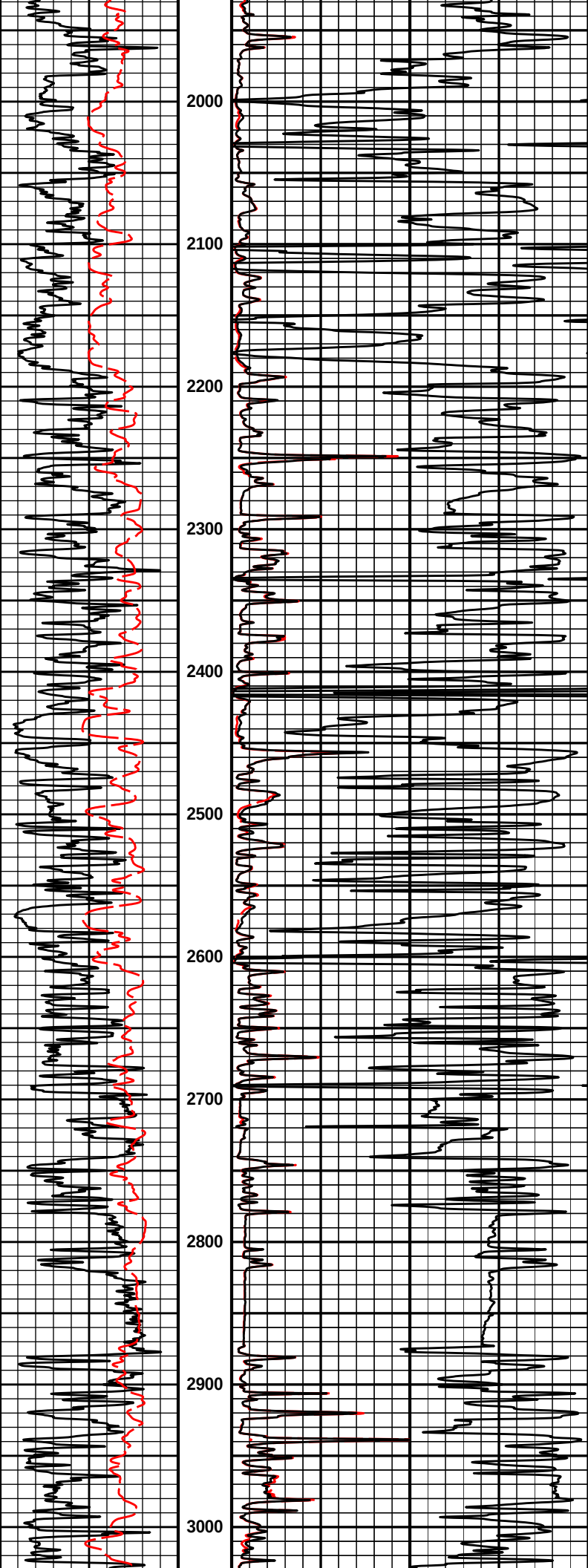
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Plot Range: 200 ft to 4451 ft
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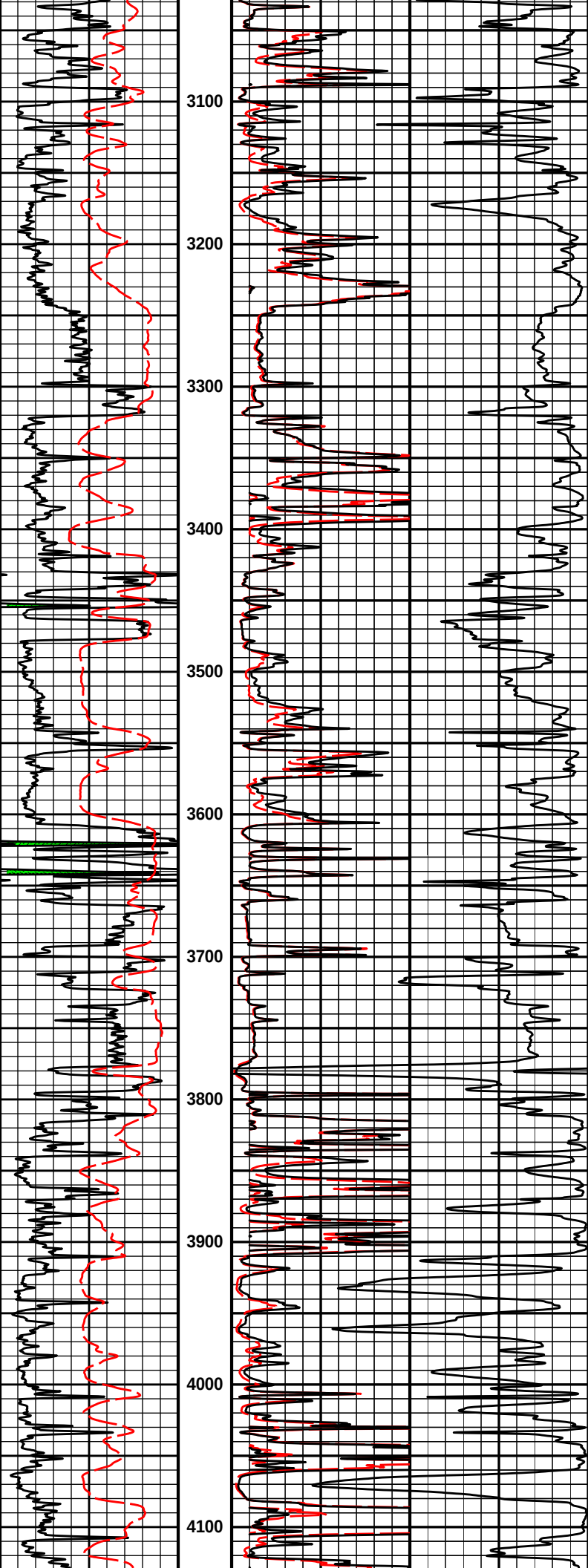
1 INCH MAIN LOG

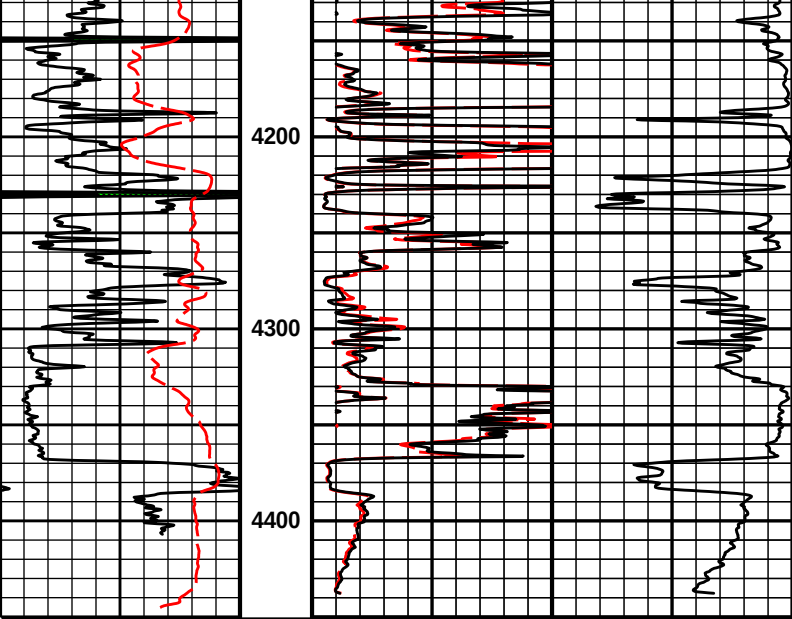
1 INCH CORRELATION LOG











0	Gamma API	150	1 : 1200	0	RT20	50	
	api		FT		ohm-metre		
	SP				90in Resistivity 2ft Res	50	
	- 20 +				ohm-metre		
				1000	90in Conductivity 2ft Res	0	
					mmho per metre		

HALLIBURTON

Plot Time: 27-Mar-13 06:30:57
Plot Range: 200 ft to 4451 ft
Data: VAL_MADDIX\Well Based\DAQ-0001-003\
Plot File: \\LOCAL-IVAL_MADDIX\0001 GTET-DSN-SDL-ACRT\ACRT\ACRT_1_main

1 INCH MAIN LOG

1 INCH CORRELATION LOG