

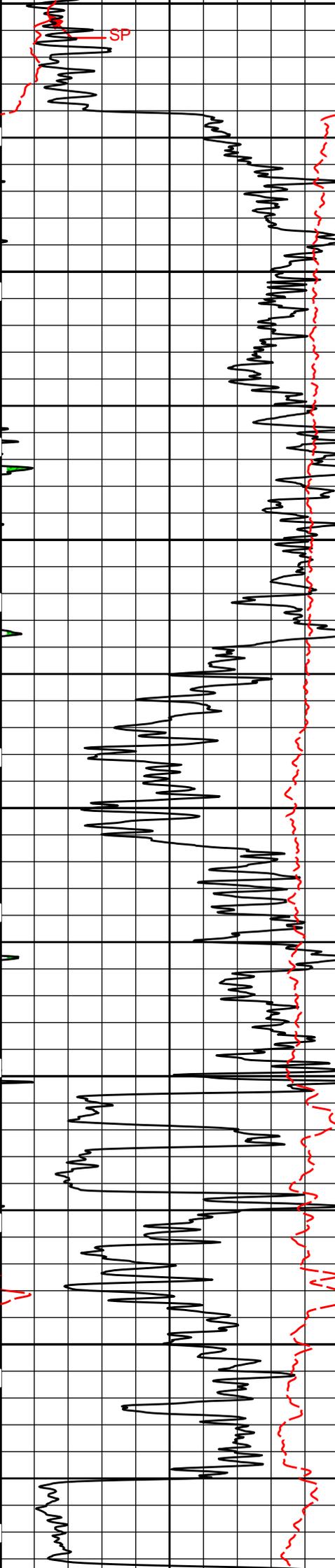
HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

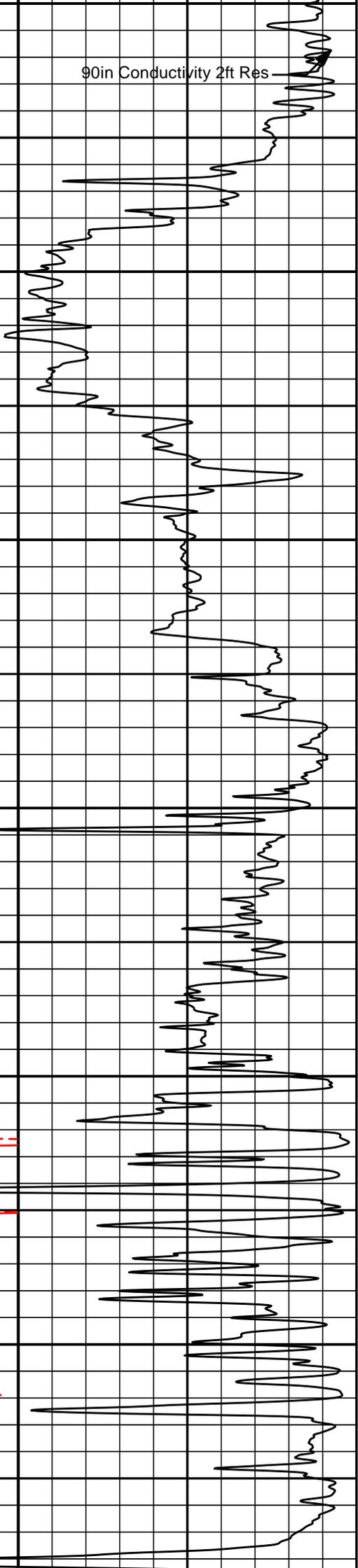
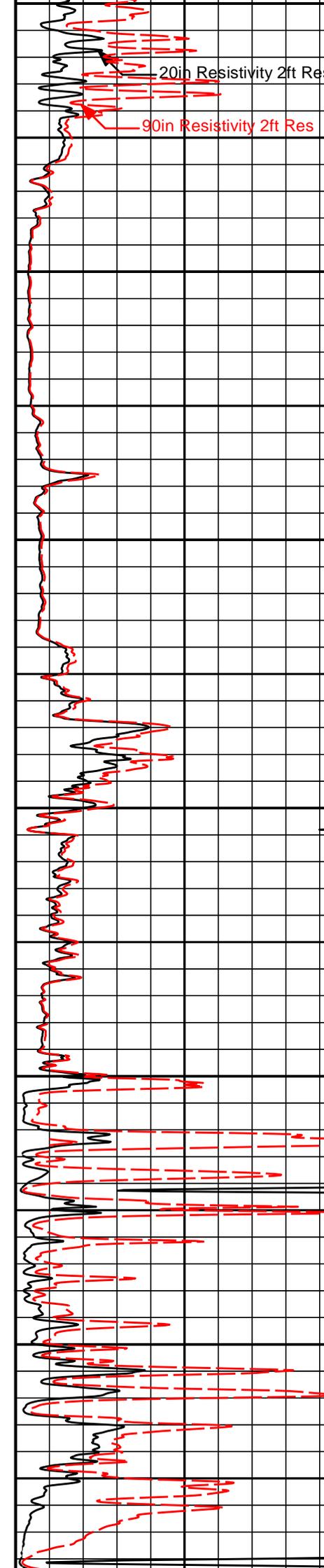
COMPANY HARTMAN OIL CO., INC		WELL ROSE #5-1		FIELD/BLOCK AMERICAN BEAUTY		COUNTY WICHITA		STATE KANSAS	
COMPANY HARTMAN OIL CO., INC		WELL ROSE #5-1		FIELD/BLOCK AMERICAN BEAUTY		COUNTY WICHITA		STATE KANSAS	
API No. 15-203-20310-00-00		Location (SHL) 330' FNL & 660' FWL N2 NW NW		Other Services: DSNT/SDLT MICROLOG ACRT		Sect. 1		Twp. 16S	
Permanent Datum GL		Log measured from KB		Drilling measured from KB		Elev. 3078.0 ft		D.F. 3091.0 ft	
Date 02-Oct-16		Run No. ONE		Depth - Driller 4730.0 ft		Depth - Logger 4726.0 ft		Bottom - Logged Interval 4716.00 ft	
				Top - Logged Interval 362.00 ft		Casing - Driller 8.625 in		Casing - Logger 362.0 ft	
		Bit Size 7.875 in		Type Fluid in Hole Water Based Mud		Density 9.8 ppg		Viscosity 46.00 s/qt	
		PH 10.00		Fluid Loss 3.0 cpm		Source of Sample MUD PIT		Rm @ Meas. Temperature 0.75 ohmm @ 75.00 degF	
		Rmf @ Meas. Temperature 0.58 ohmm @ 75.00 degF		Rmc @ Meas. Temperature 0.91 ohmm @ 75.00 degF		Source Rmf MEAS		Rmc MEAS	
		Rm @ BHT 5.0 hr		Time Since Circulation 02-Oct-16 02:00		Max. Rec. Temperature 112.00 degF @ 4725.0 ft		Equipment Location 11072142 EL RENO, OK	
		Recorded By JORGE ORLANDO PEREZ		Witnessed By CHRIS PETERS					

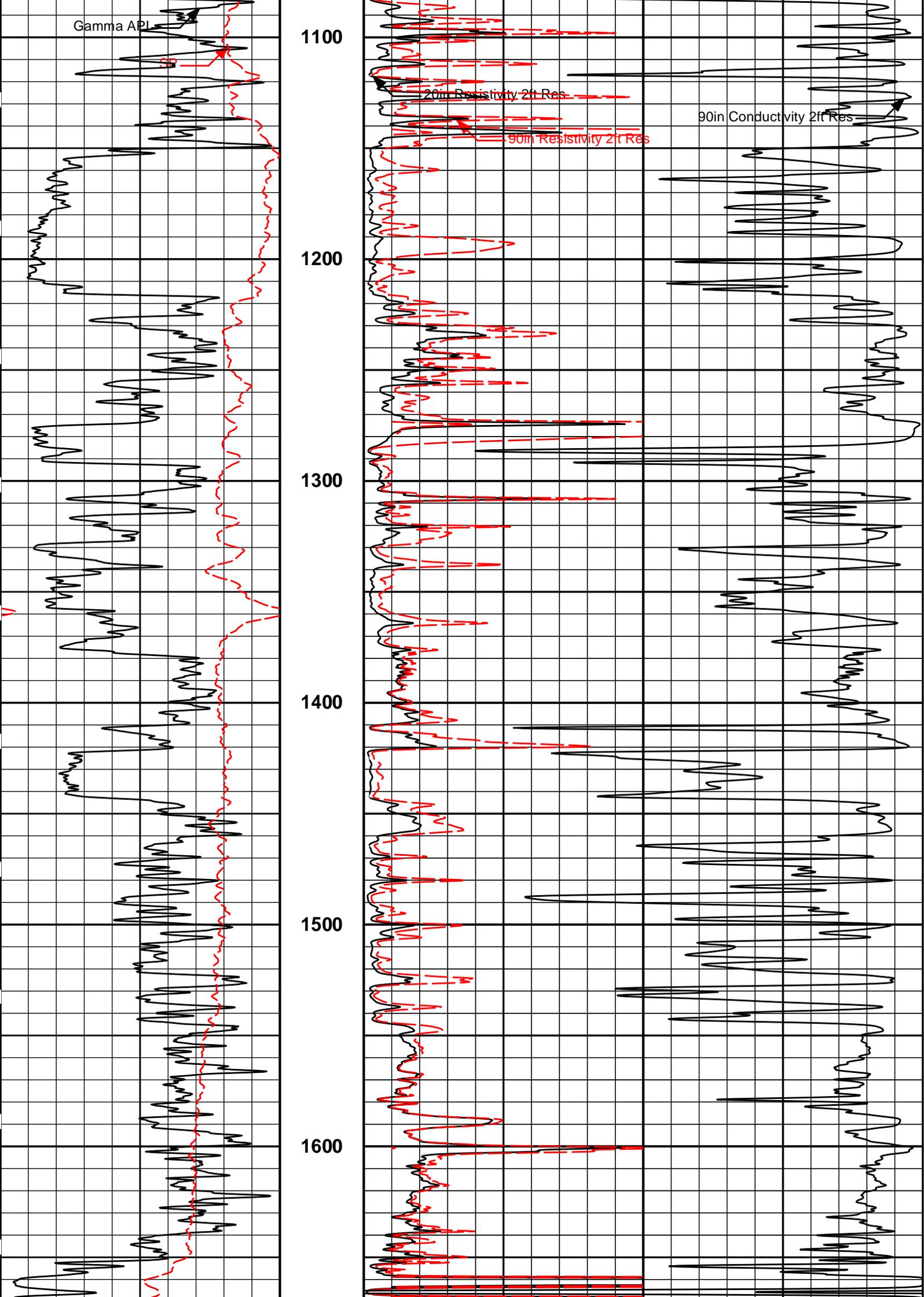
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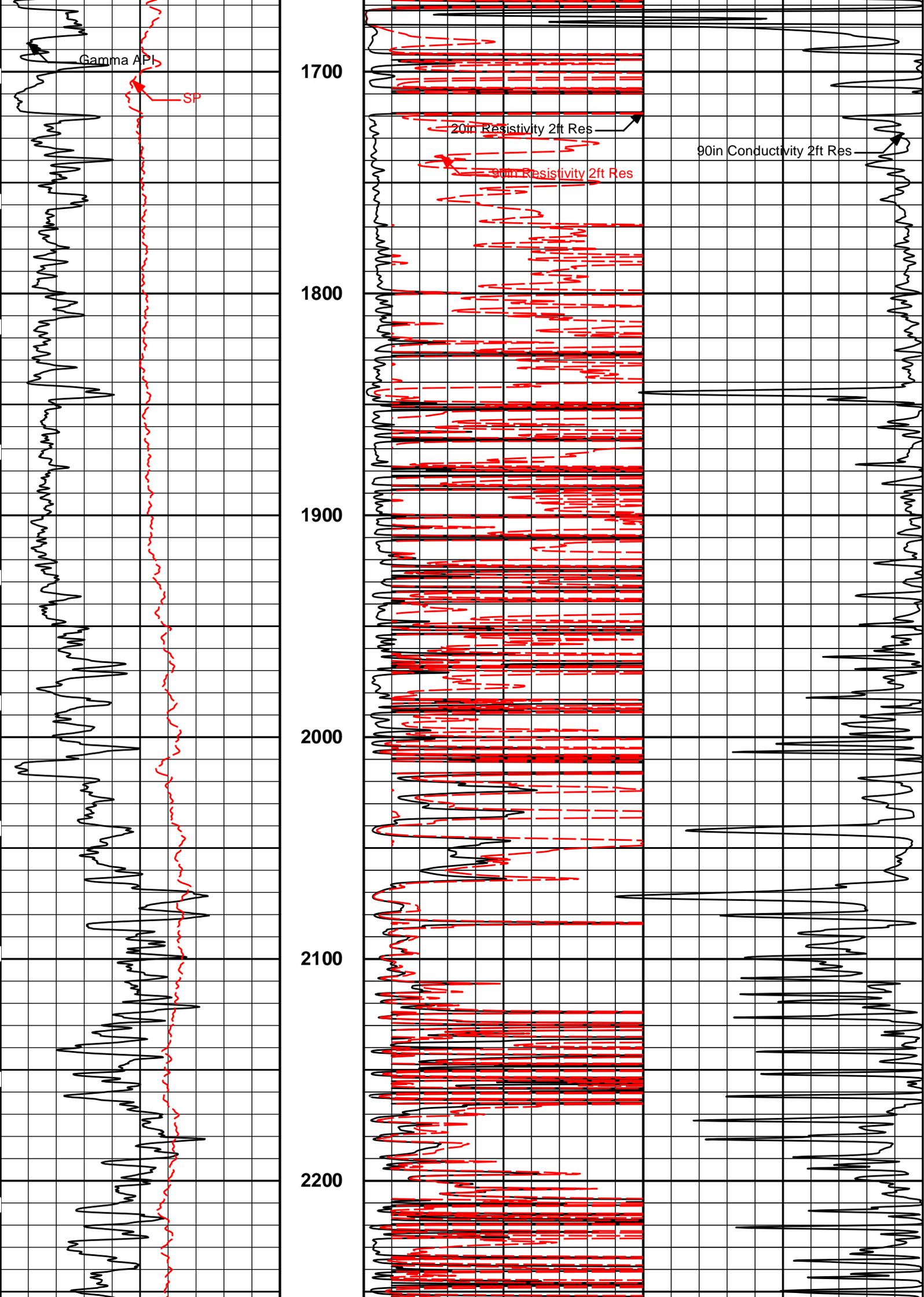
Service Ticket No.: 903565062				API No.: 15-203-20310-00-00				PGM Version: WL INSITE R5.0.5 (Build 8)						
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES								
Date	Sample No.			Type Log	Depth	Scale Up Hole	Scale Down Hole							
Depth-Driller														
Type Fluid in 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.	@	@		ONE	ACRT	N/A	1.5 S.O.	N/A						
Rmc @ Meas. Temp.	@	@			I-11022962									
Source Rmf	Rmc				S-11005909									
Rm @ BHT	@	@												
Rmf @ BHT	@	@												
Rmc @ BHT	@	@												
EQUIPMENT DATA														
GAMMA			ACOUSTIC			DENSITY			NEUTRON					
Run No.	ONE		Run No.			Run No.	ONE		Run No.	ONE				
Serial No.	11048627		Serial No.			Serial No.	11019643		Serial No.	10950489				
Model No.	GTET		Model No.			Model No.	SDLT		Model No.	DSNT				
Diameter	3.625"		No. of Cent.			Diameter	5.5"		Diameter	3.625"				
Detector Model No.	T-102		Spacing			Log Type	GAM-GAM		Log Type	NEU-NEU				
Type	SCINT					Source Type	CS137		Source Type	AM241BE				
Length	8"		LSA [Y/N]			Serial No.	5168GW		Serial No.	DSN-424				
Distance to Source	N/A		FWDA [Y/N]			Strength	1.5 Ci		Strength	15.0 Ci				
LOGGING DATA														
GENERAL			GAMMA			ACOUSTIC			DENSITY			NEUTRON		
Run	Depth	Speed	Scale		Scale		Scale		Scale		Scale		Matrix	
No.	From	To	L	R	L	R	L	R	L	R	L	R	Matrix	
ONE	TD	CSC	REC	0	150			20	10	2.71 gr/cc	20	10	LIME	

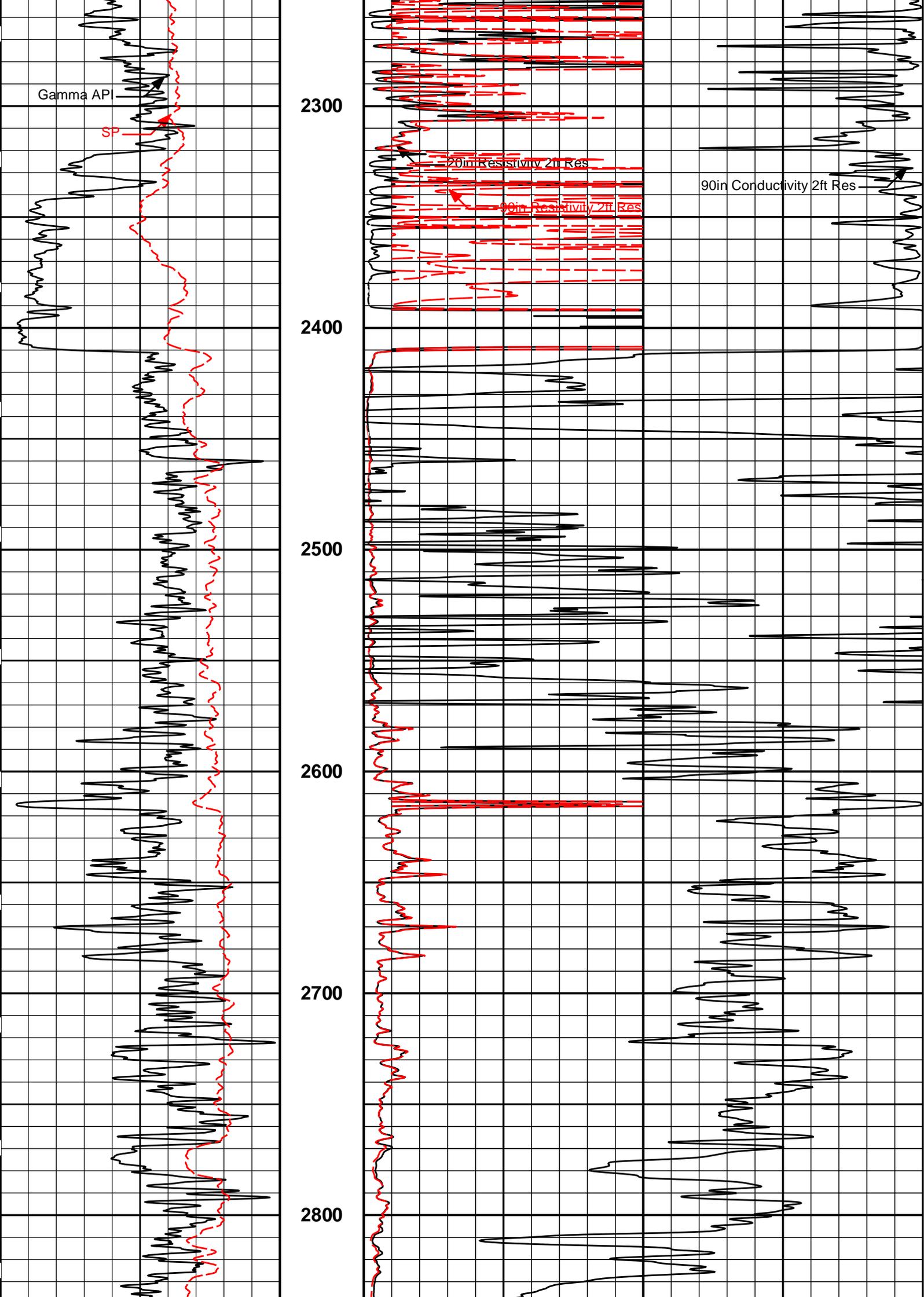


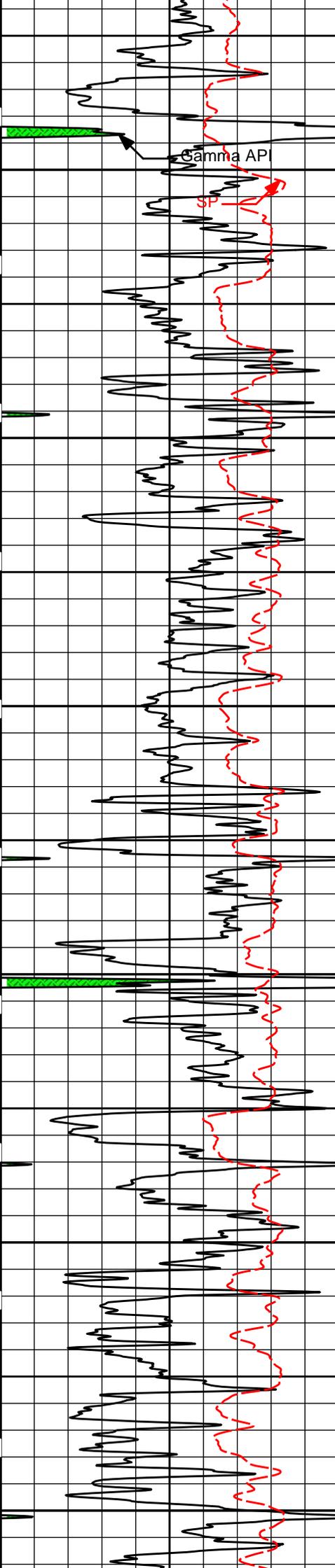
500
600
700
800
900
1000











2900

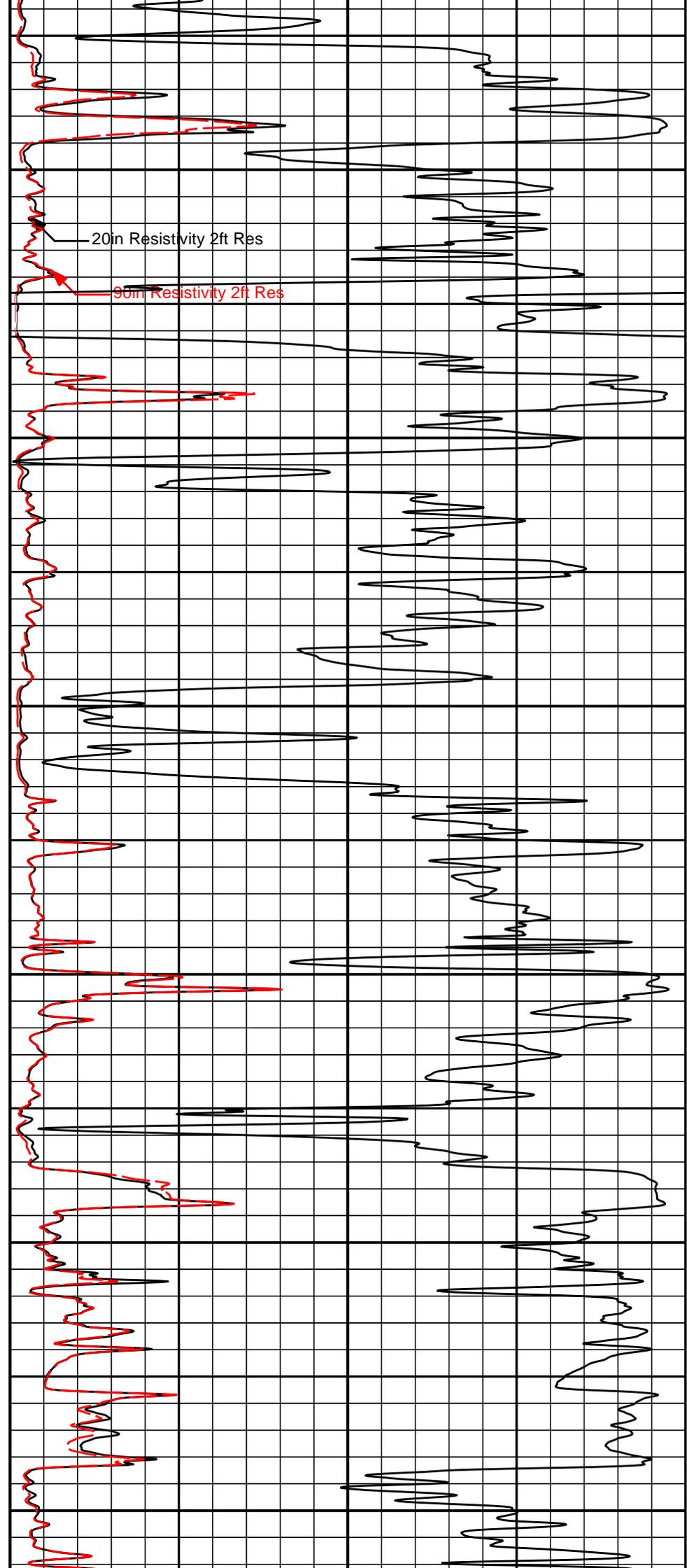
3000

3100

3200

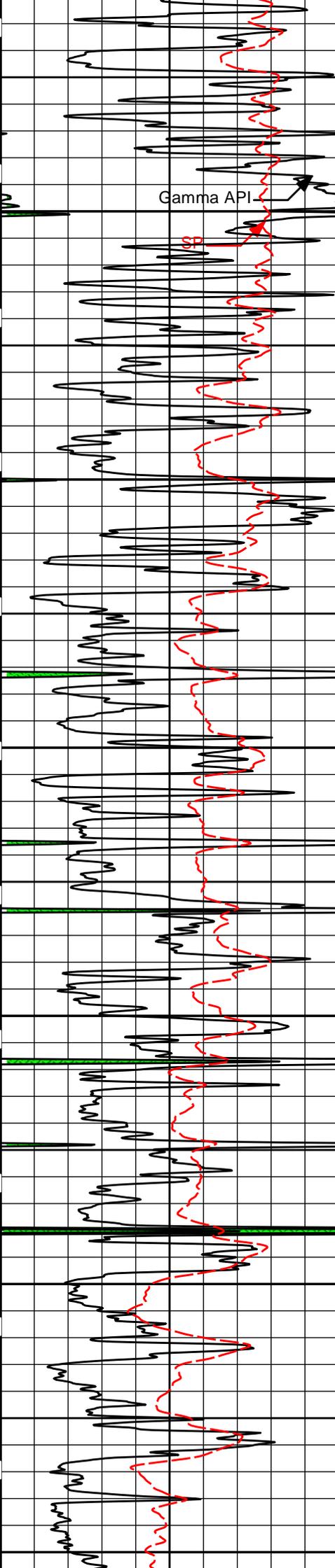
3300

3400



20in Resistivity 2ft Res

90in Resistivity 2ft Res



3500

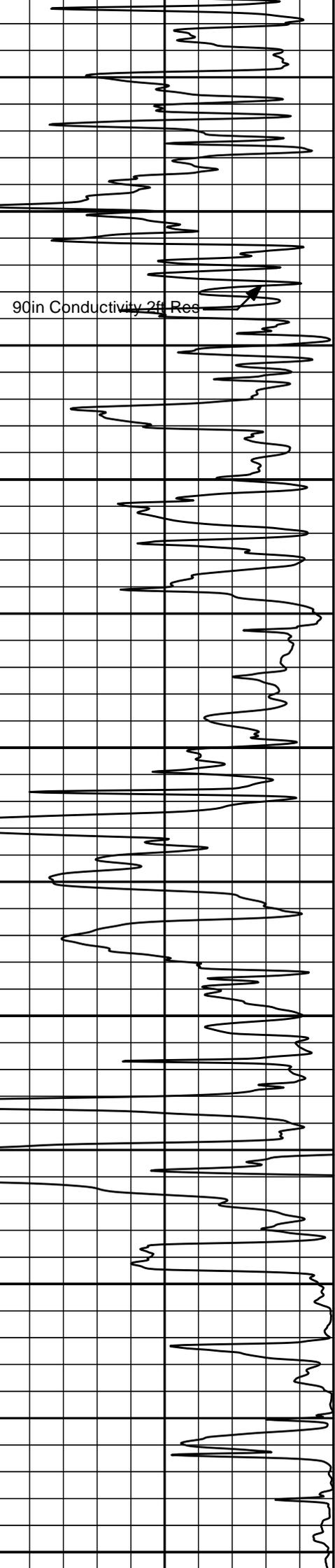
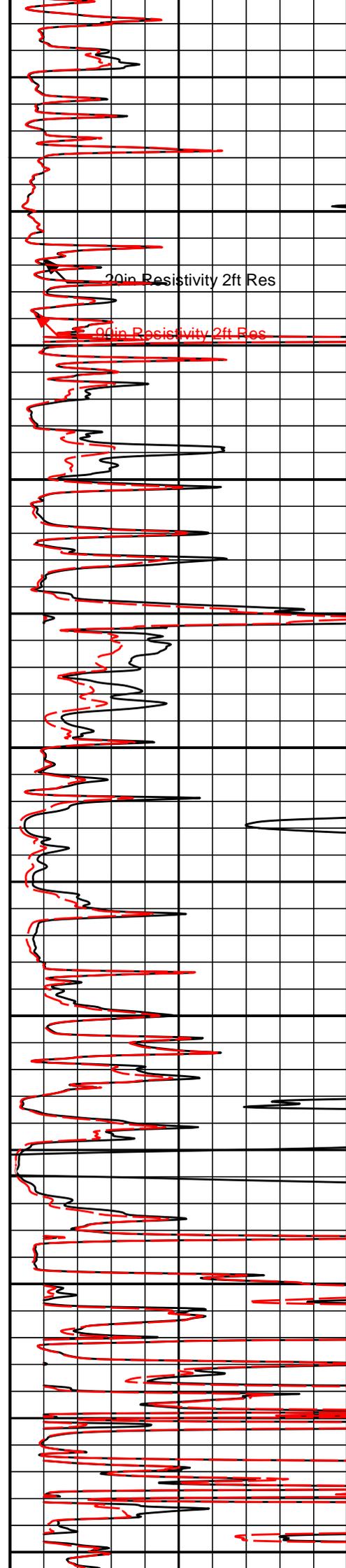
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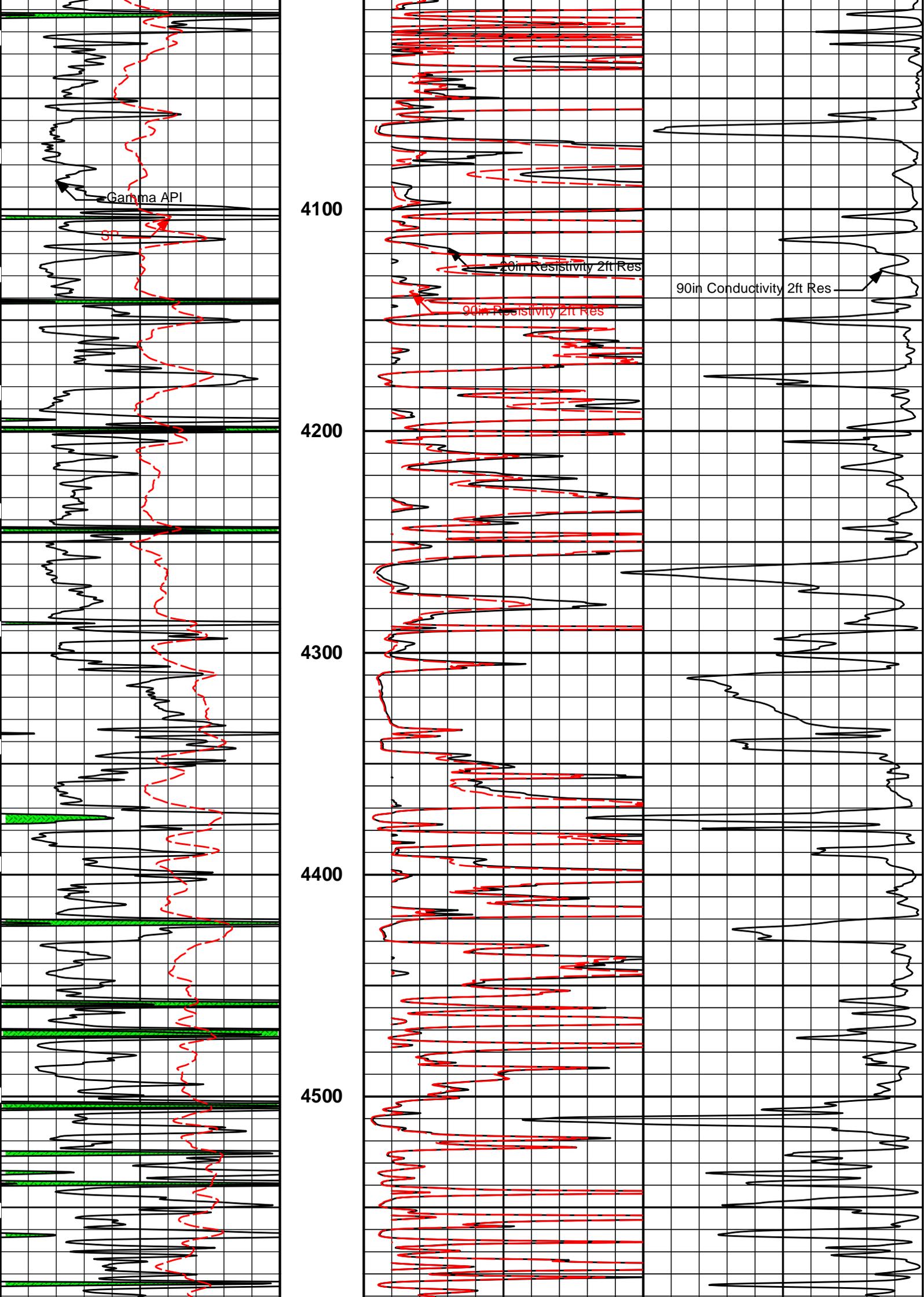
3700

3800

3900

4000





Gamma API

4100

20in Resistivity 2ft Res

90in Conductivity 2ft Res

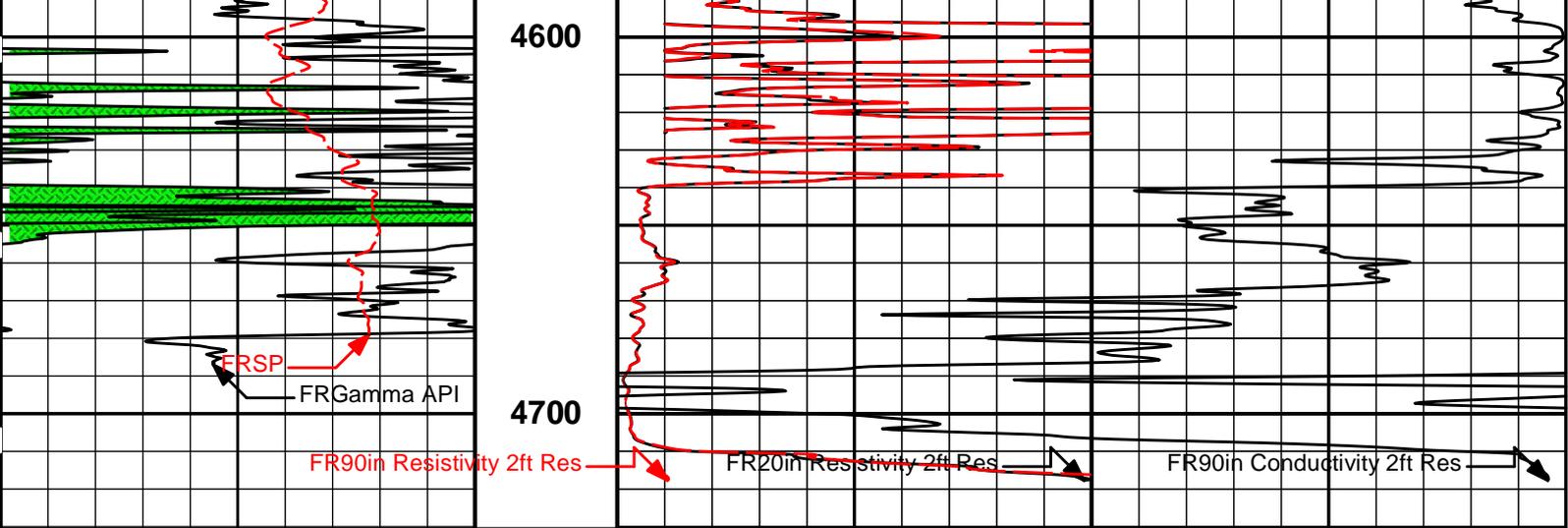
90in Resistivity 2ft Res

4200

4300

4400

4500



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

HALLIBURTON

Plot Time: 02-Oct-16 03:30:25
 Plot Range: 353 ft to 4730.5 ft
 Data: ROSE_5-1\Well Based\MAIN\
 Plot File: \\-LOCAL-ROSE_5-1\Well Based\ACRT\ACRT_2_main

2 INCH MAIN LOG

2 INCH MAIN LOG

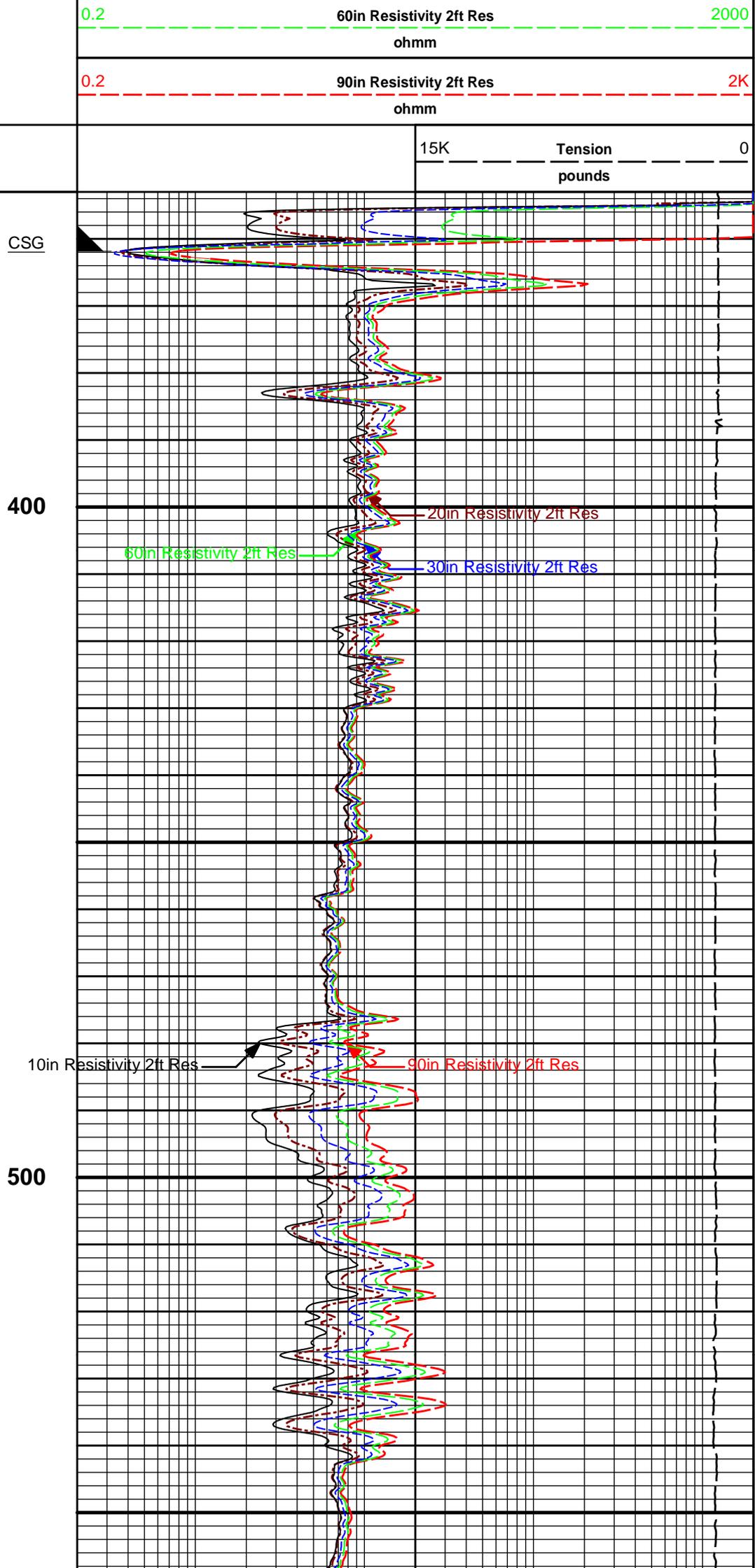
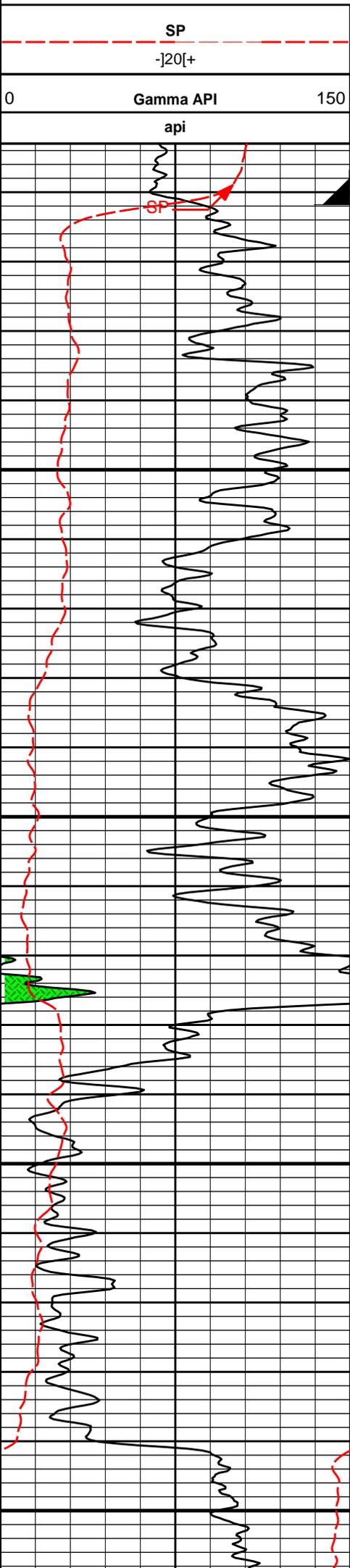
HALLIBURTON

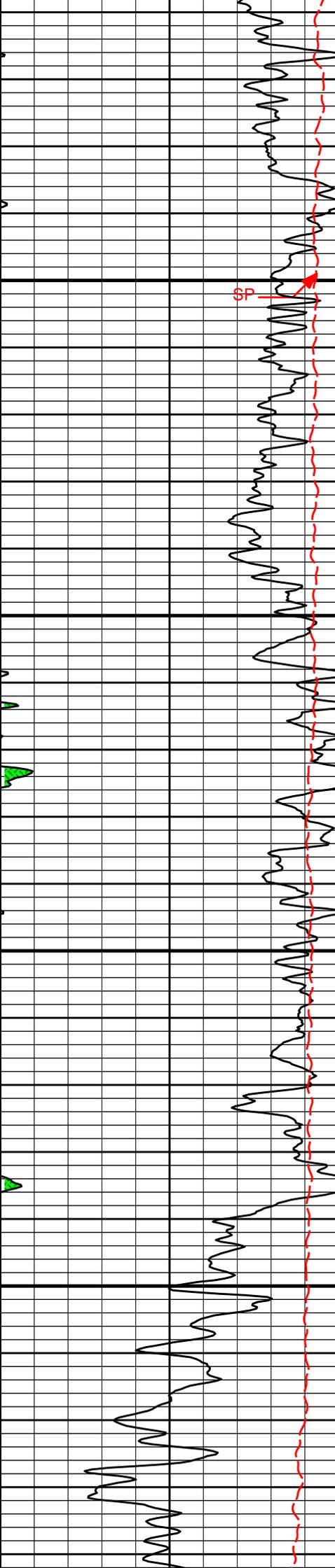
Plot Time: 02-Oct-16 03:30:25
 Plot Range: 353 ft to 4730.5 ft
 Data: ROSE_5-1\Well Based\MAIN\
 Plot File: \\-LOCAL-ROSE_5-1\Well Based\ACRT\ACRT_5inch_main

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	





600

SP

30in Resistivity 2ft Res

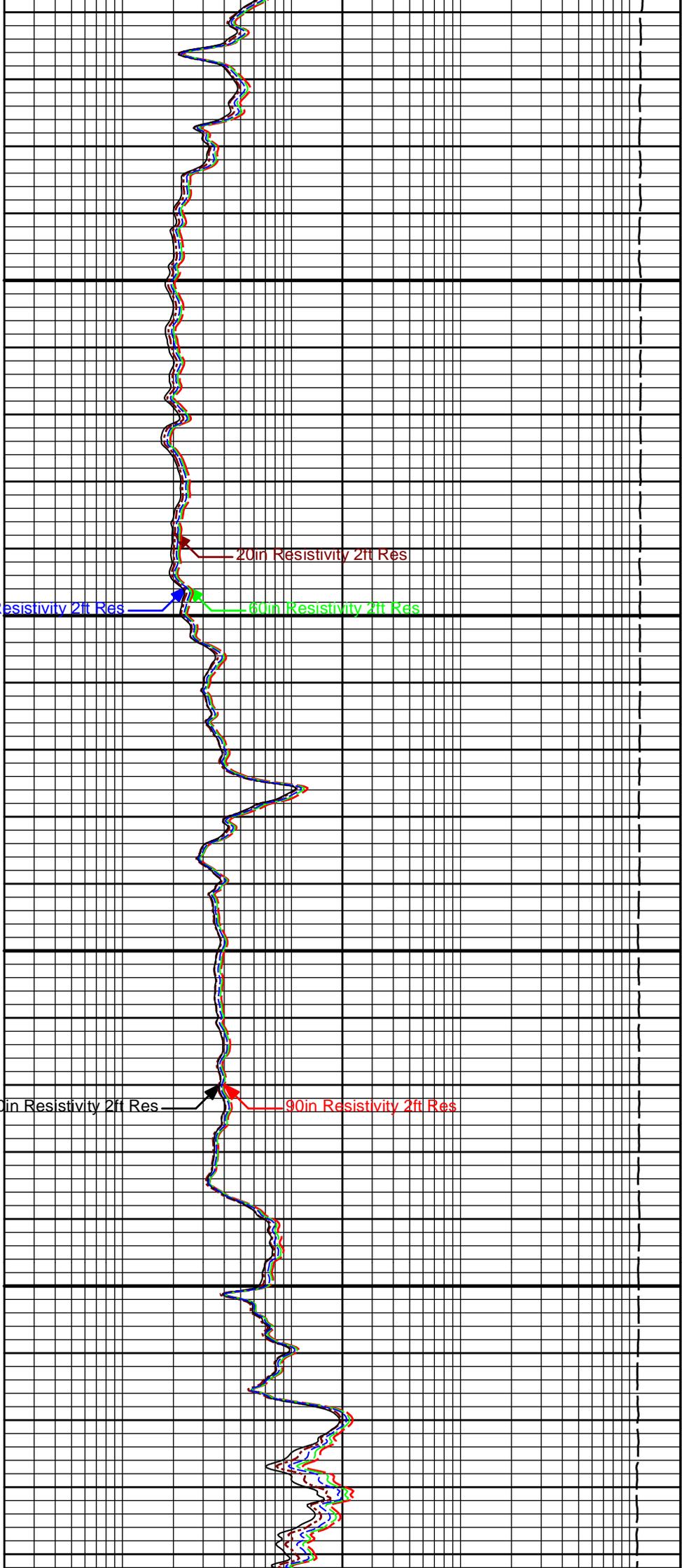
20in Resistivity 2ft Res

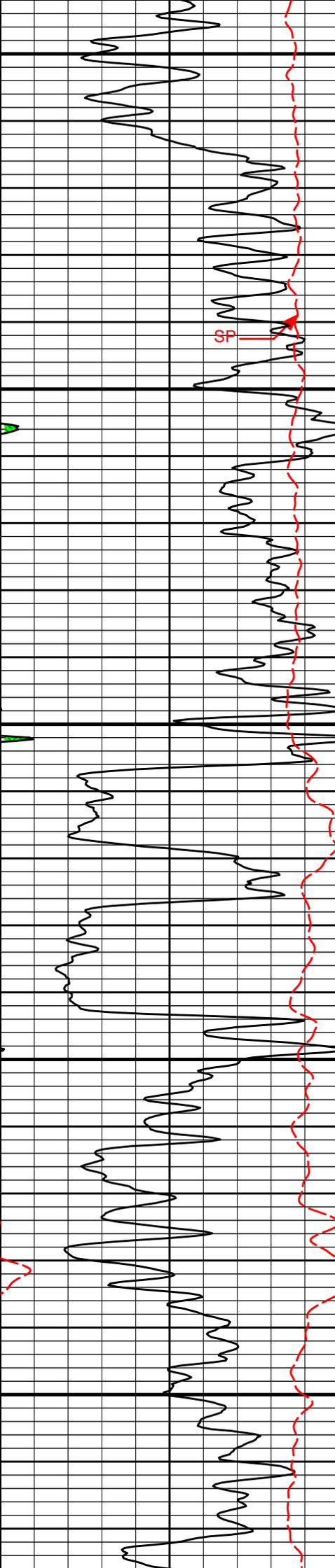
60in Resistivity 2ft Res

700

10in Resistivity 2ft Res

90in Resistivity 2ft Res

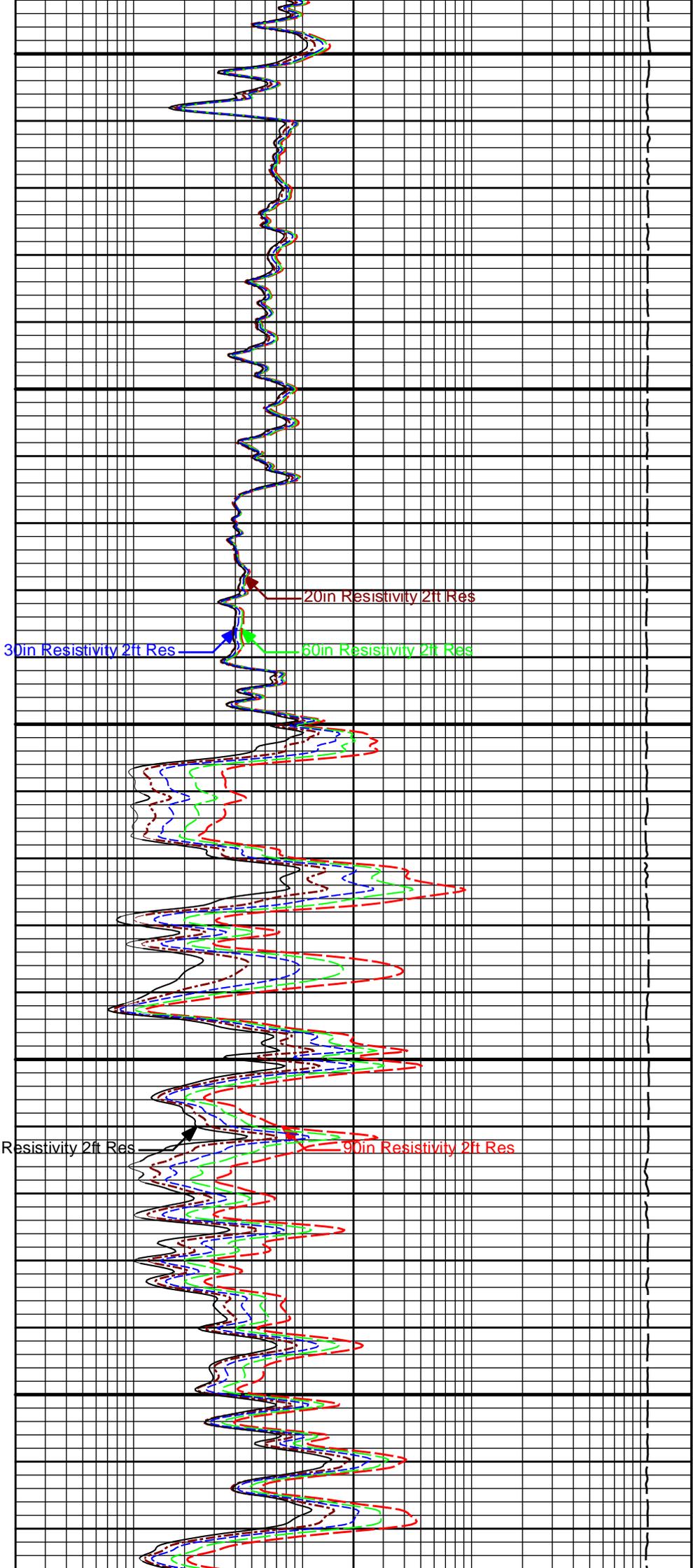


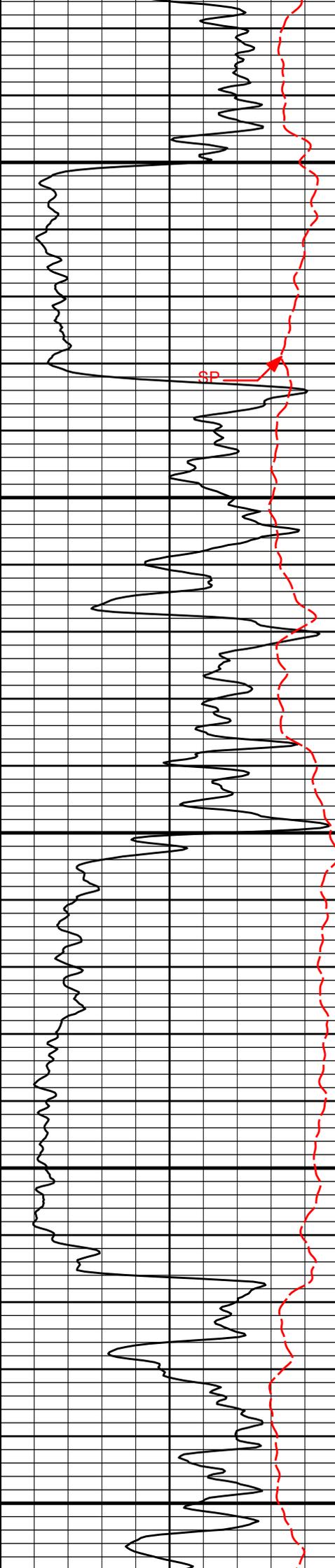


800

900

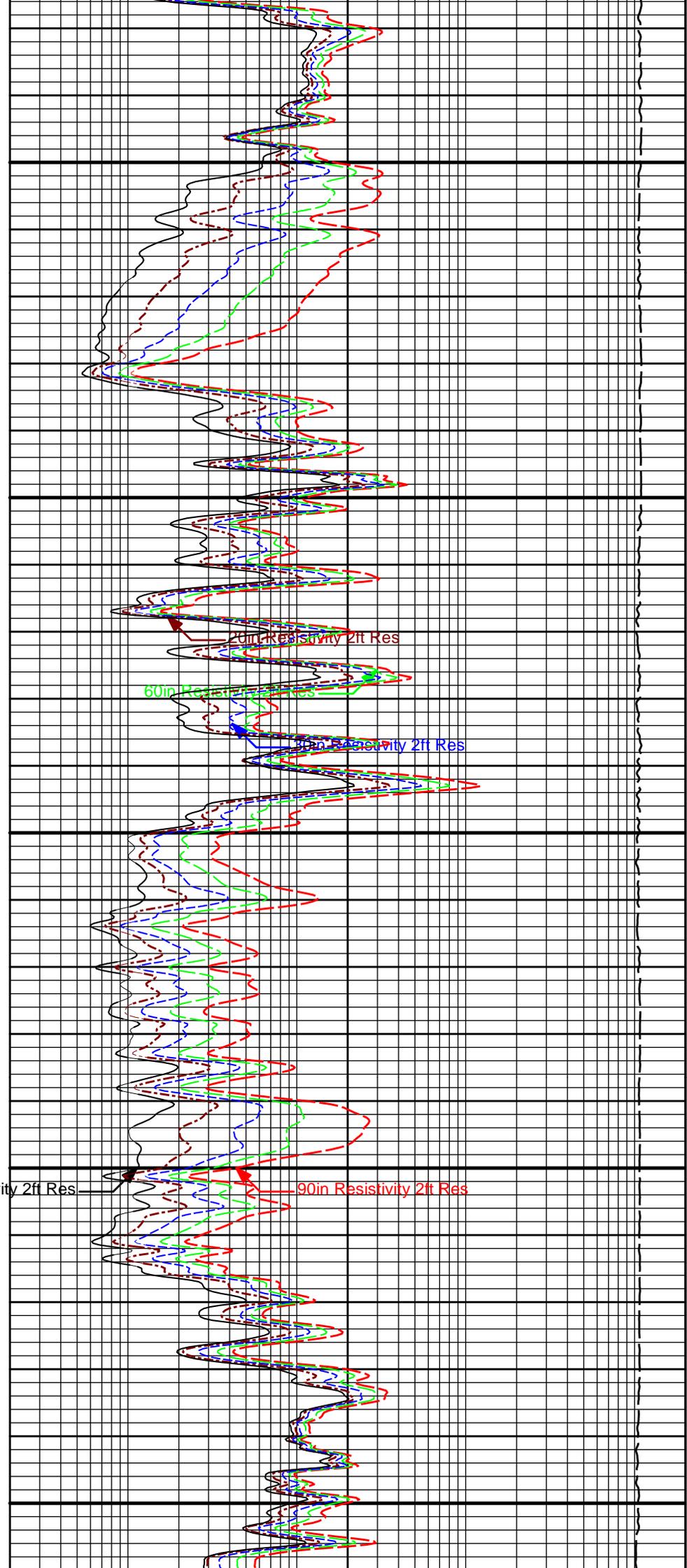
1000





1100

1200



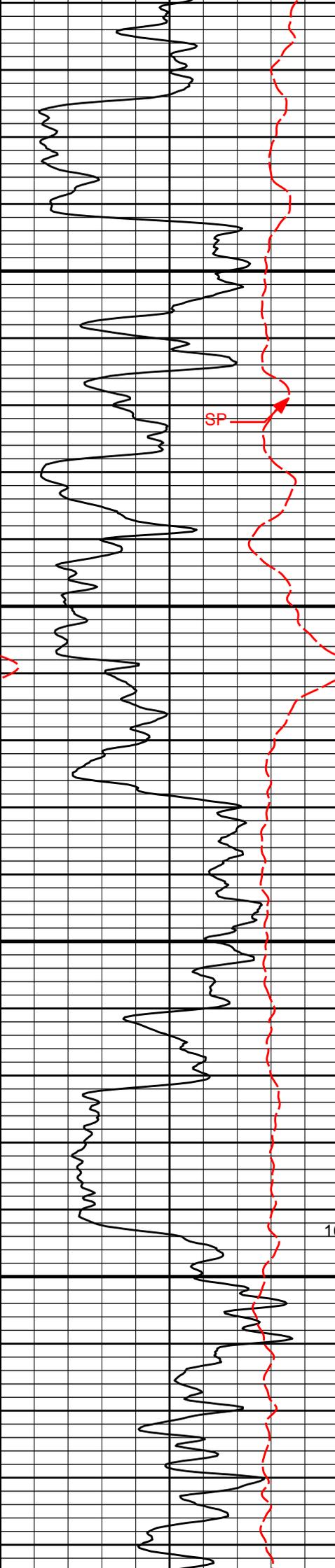
20in Resistivity 2ft Res

60in Resistivity 2ft Res

90in Resistivity 2ft Res

30in Resistivity 2ft Res

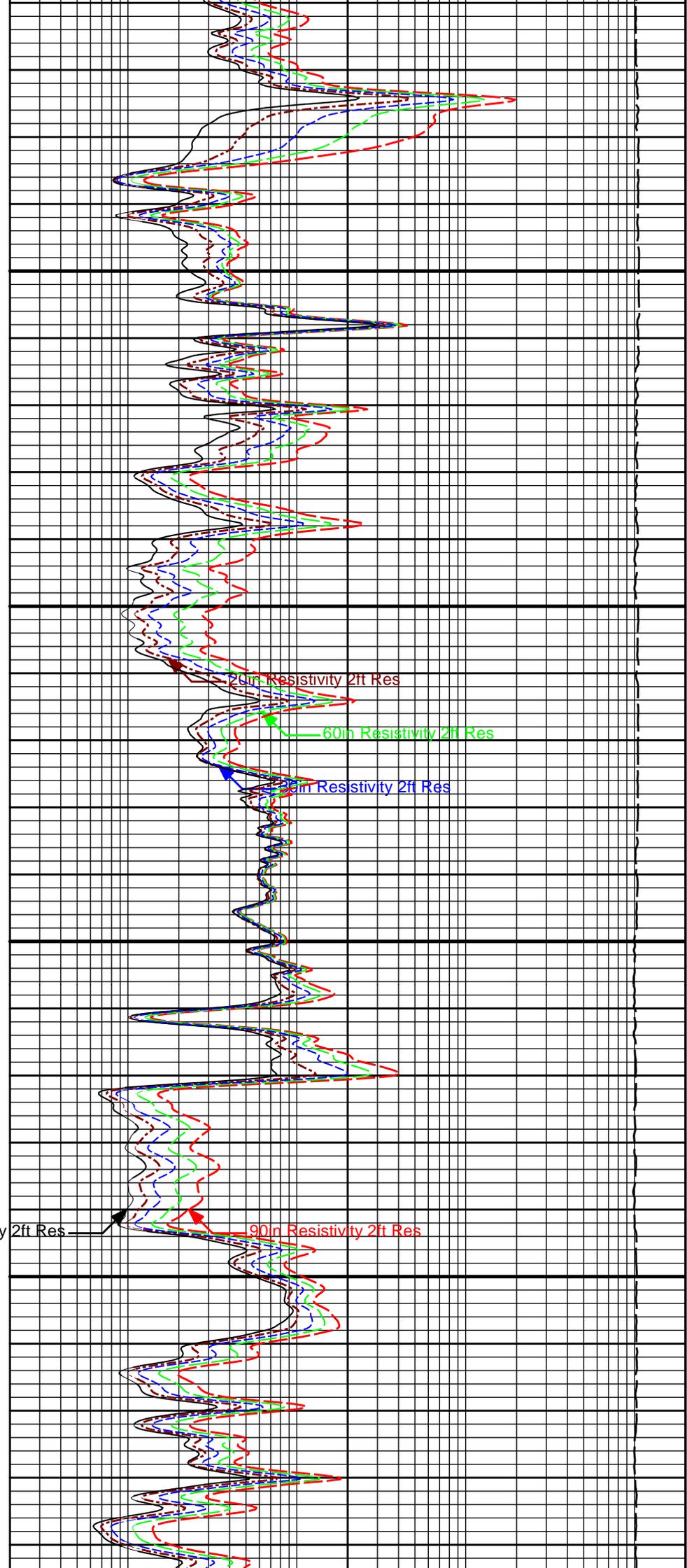
90in Resistivity 2ft Res



1300

1400

10in Resistivity 2ft Res

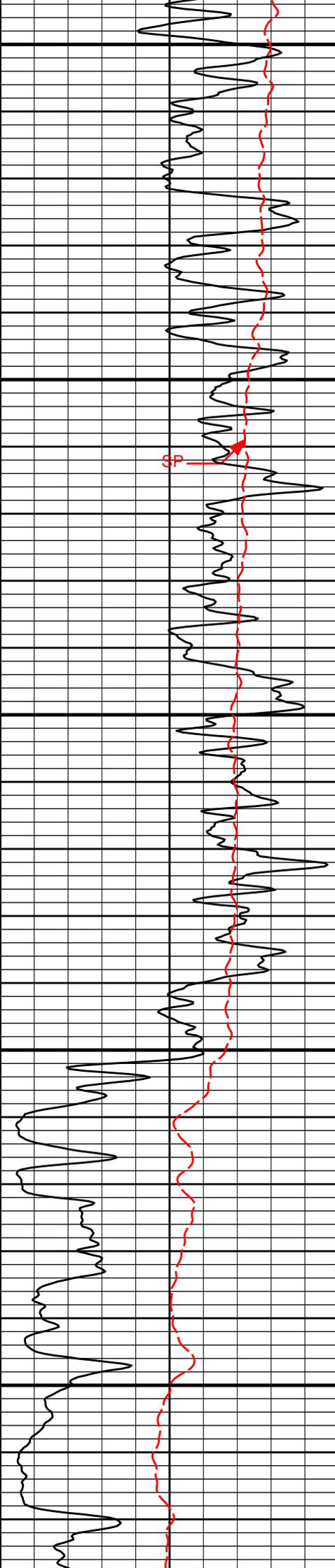


20in Resistivity 2ft Res

60in Resistivity 2ft Res

90in Resistivity 2ft Res

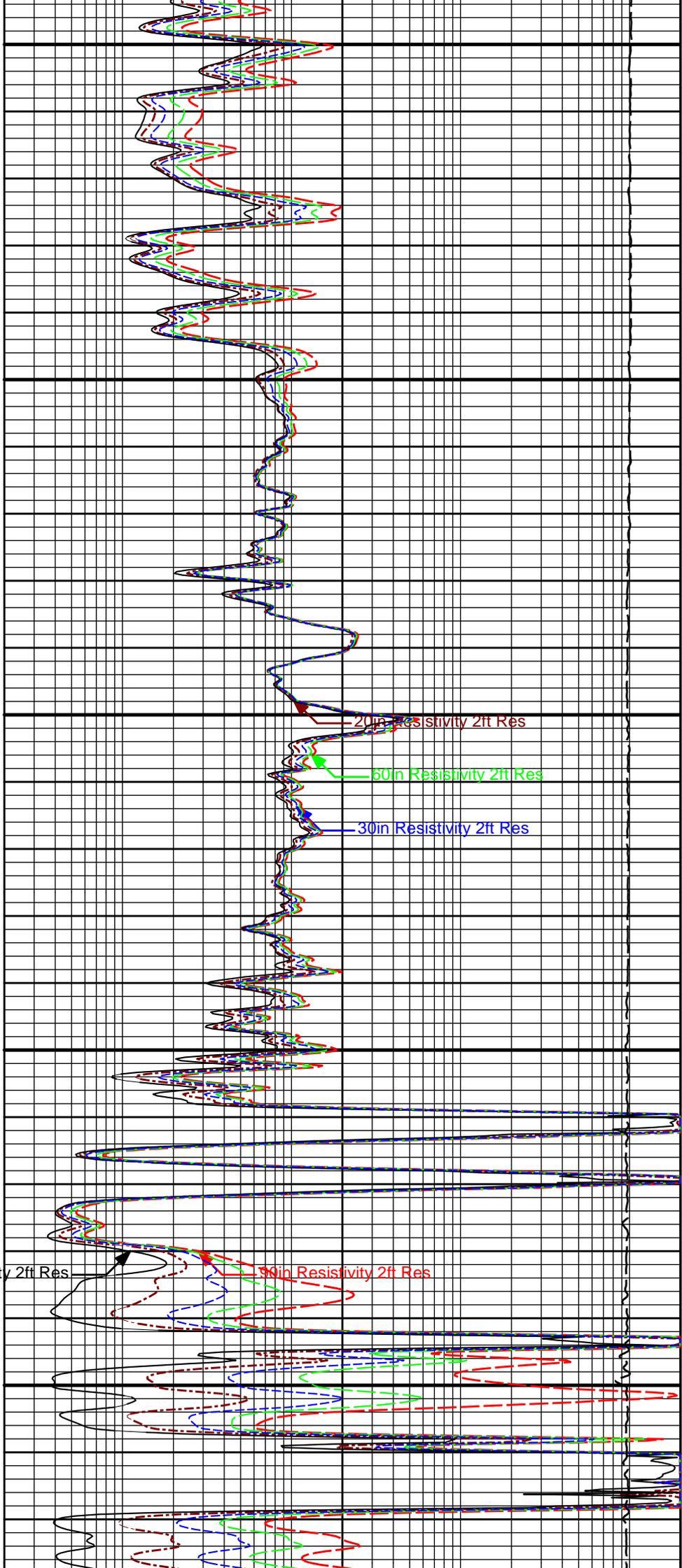
10in Resistivity 2ft Res

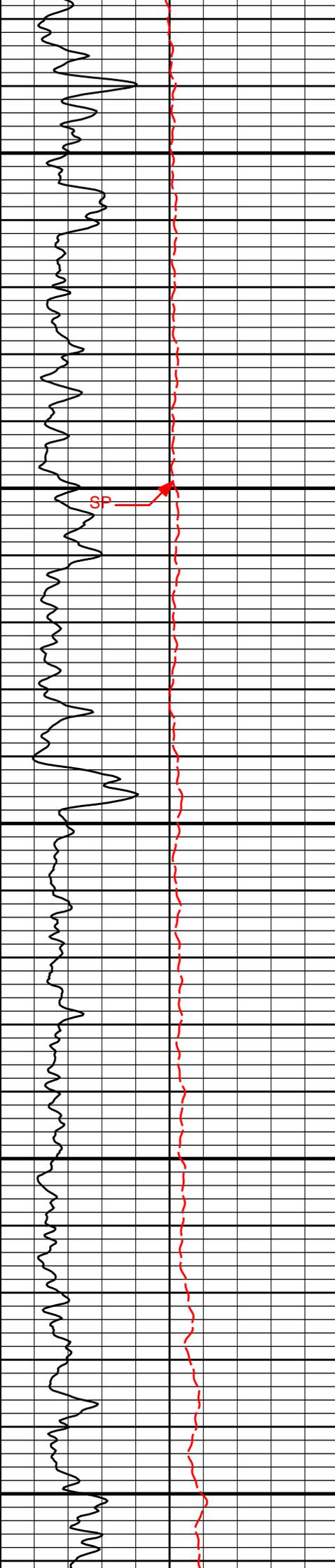


1500

1600

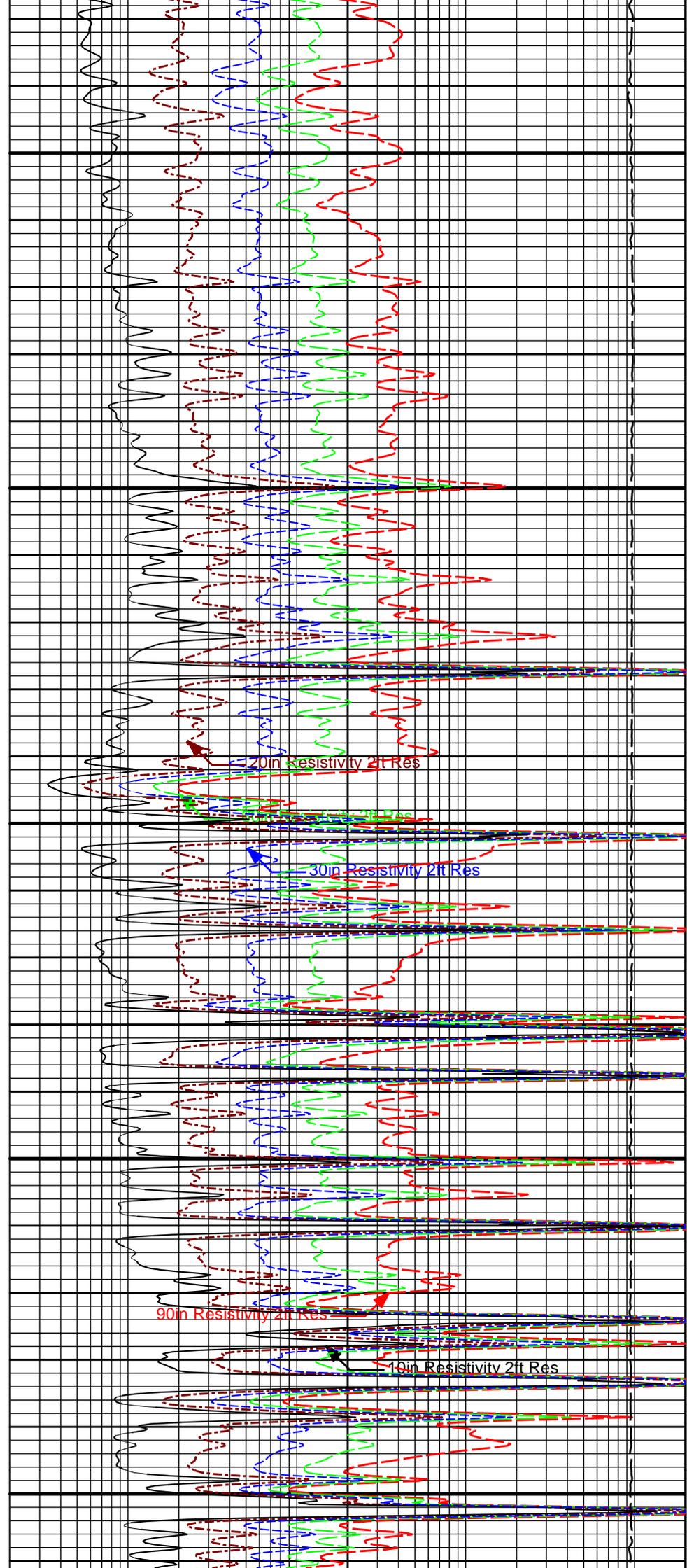
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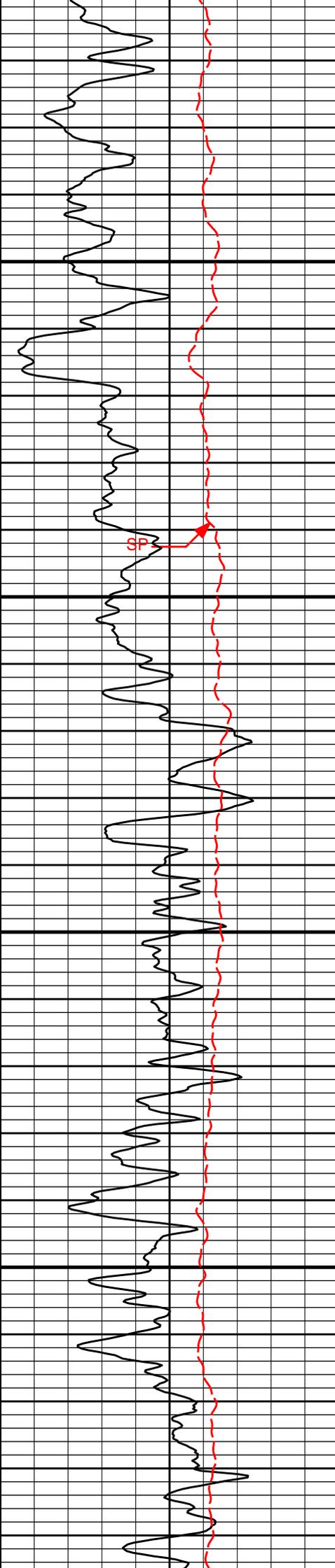




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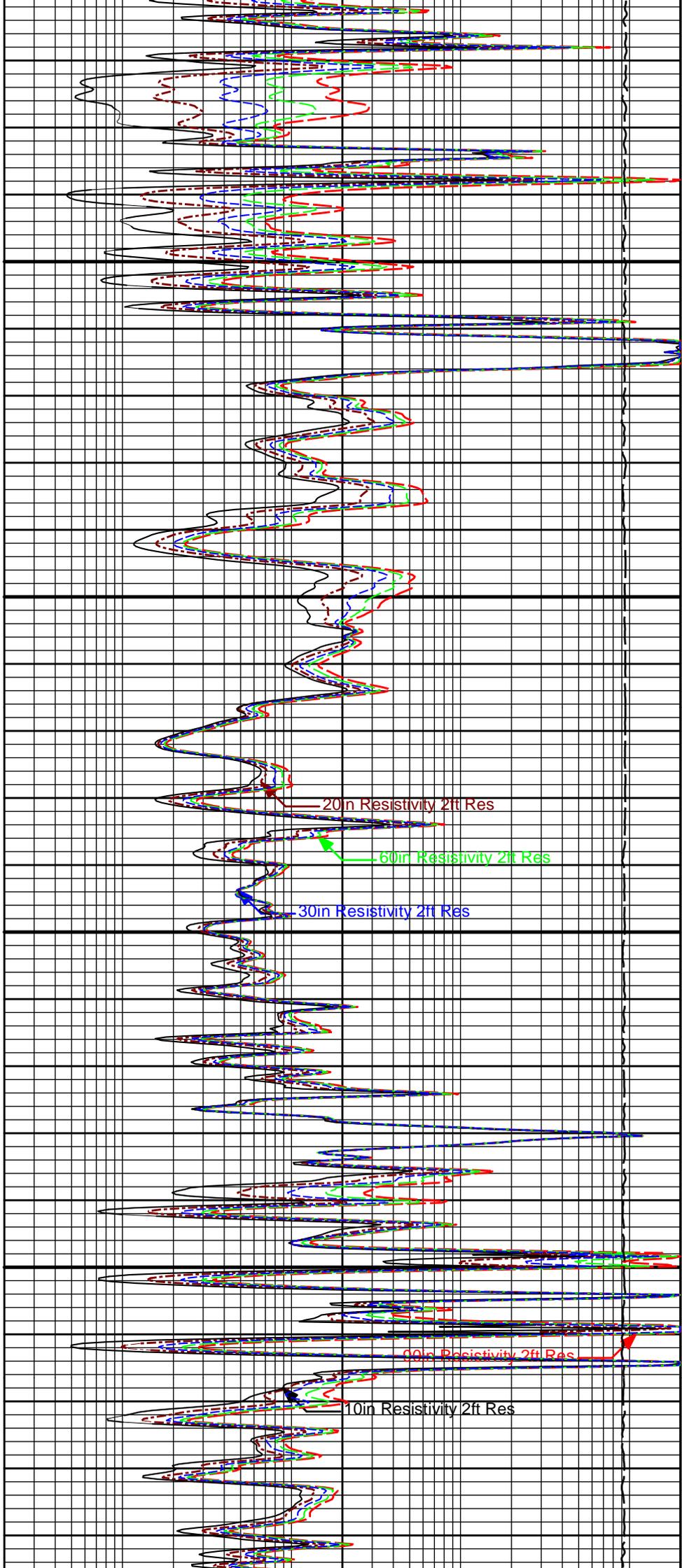
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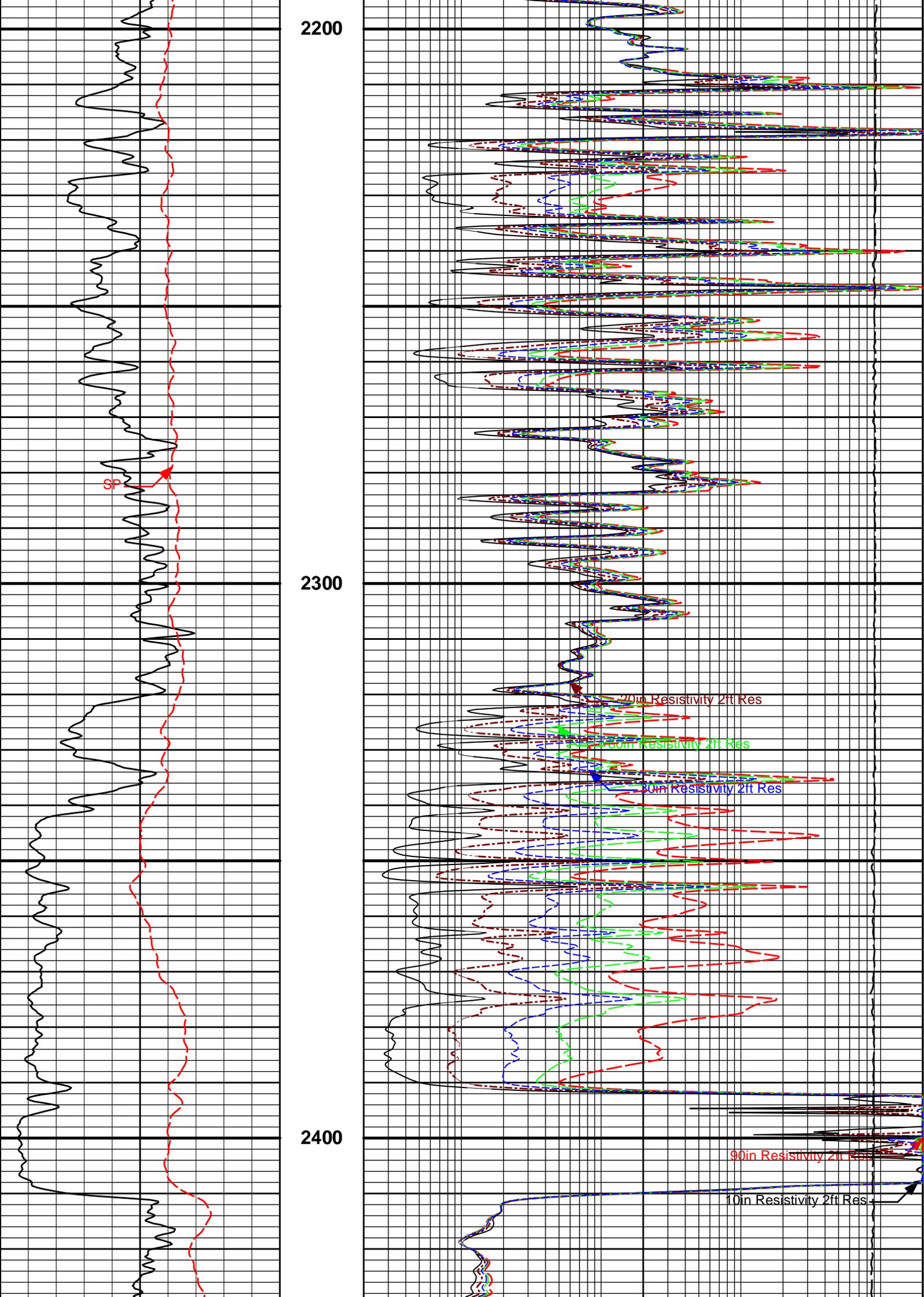


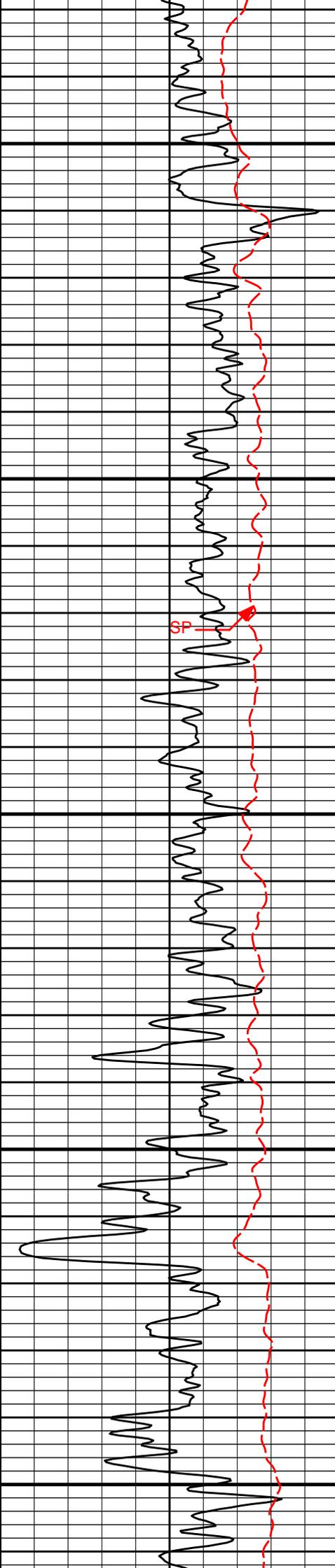


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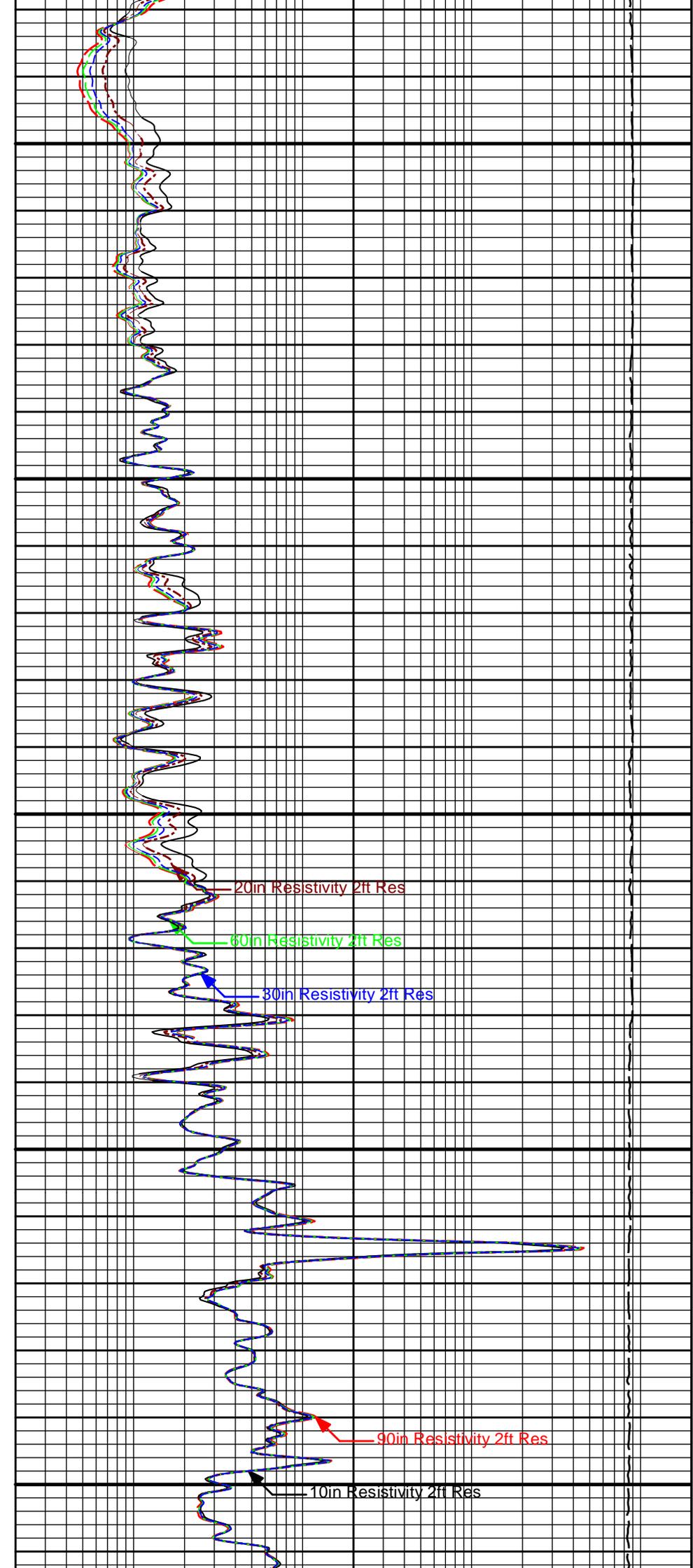


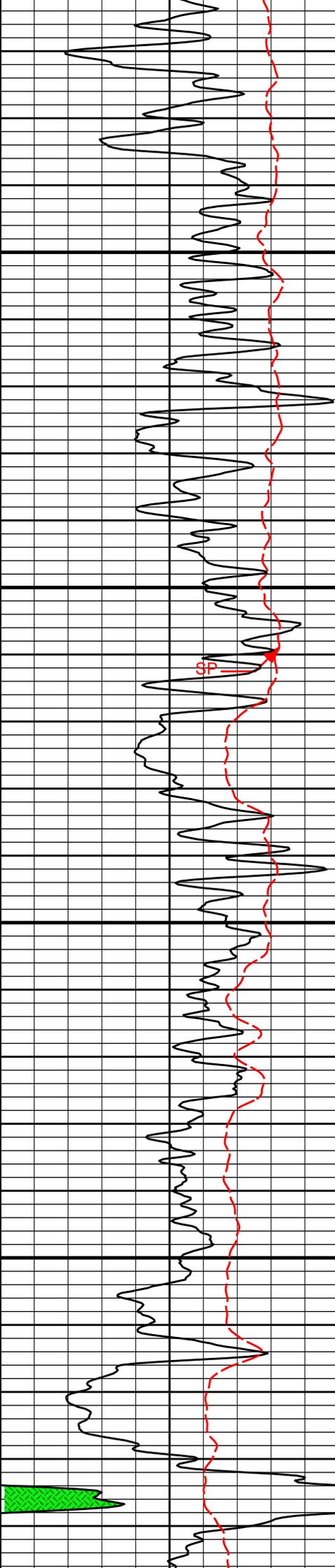




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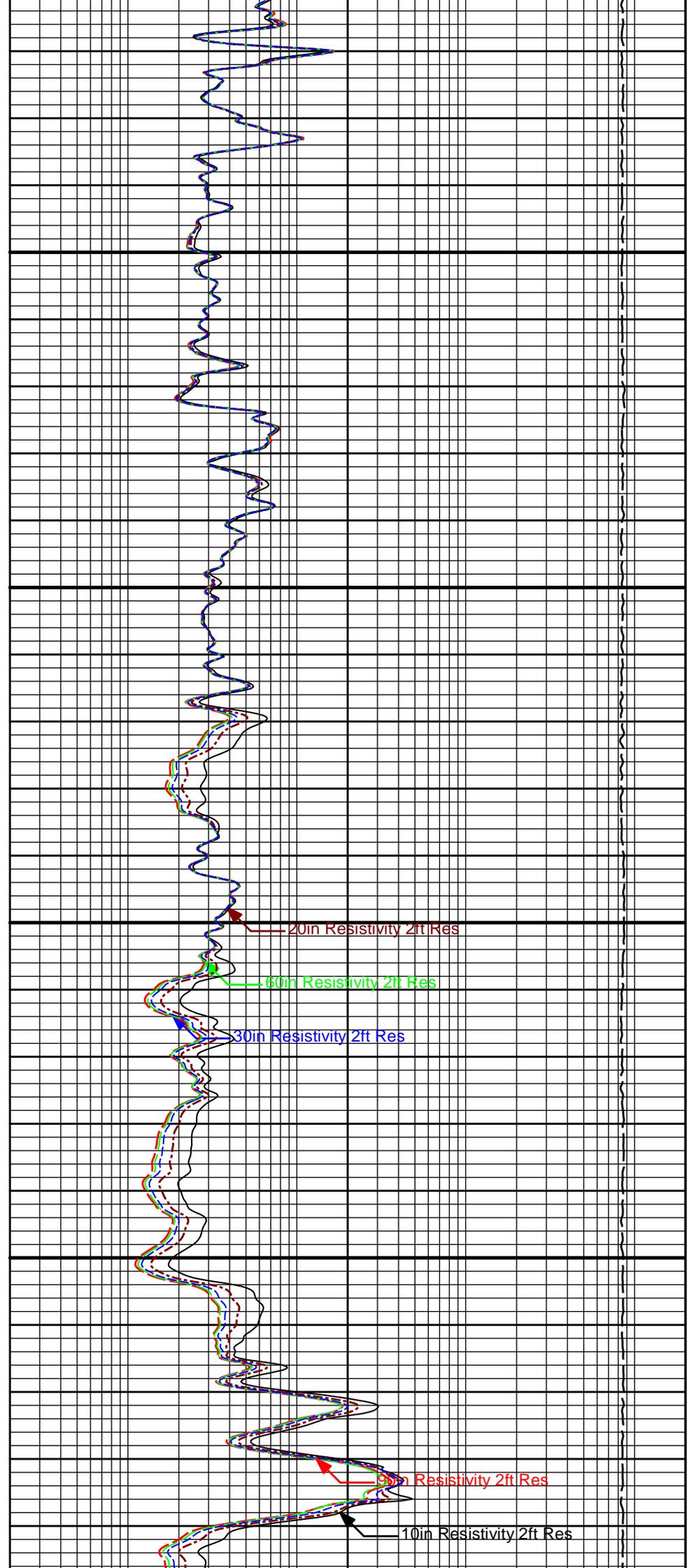
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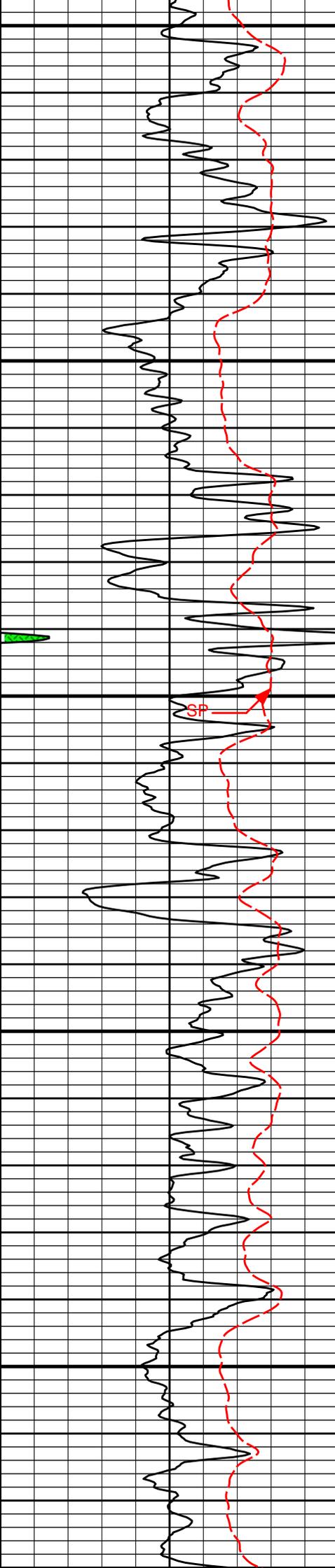




2700

2800

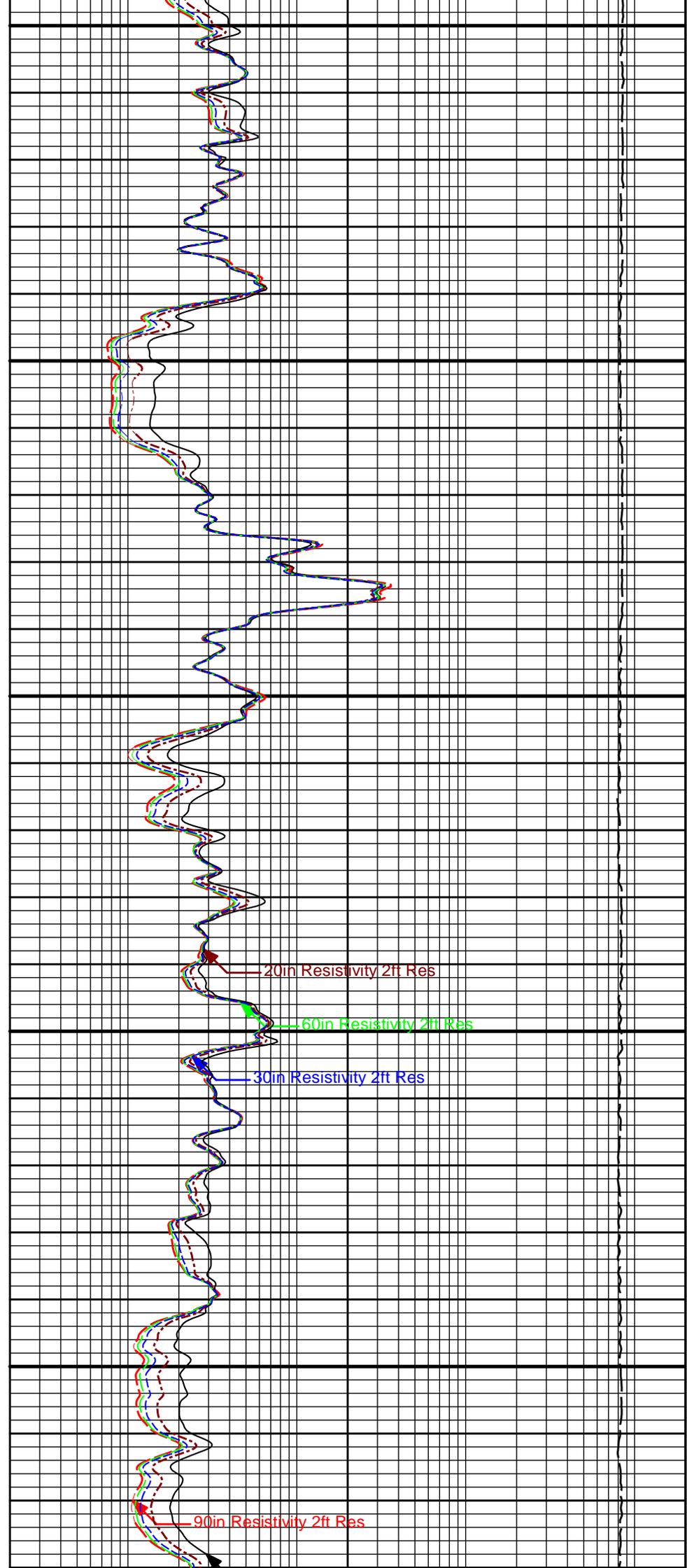


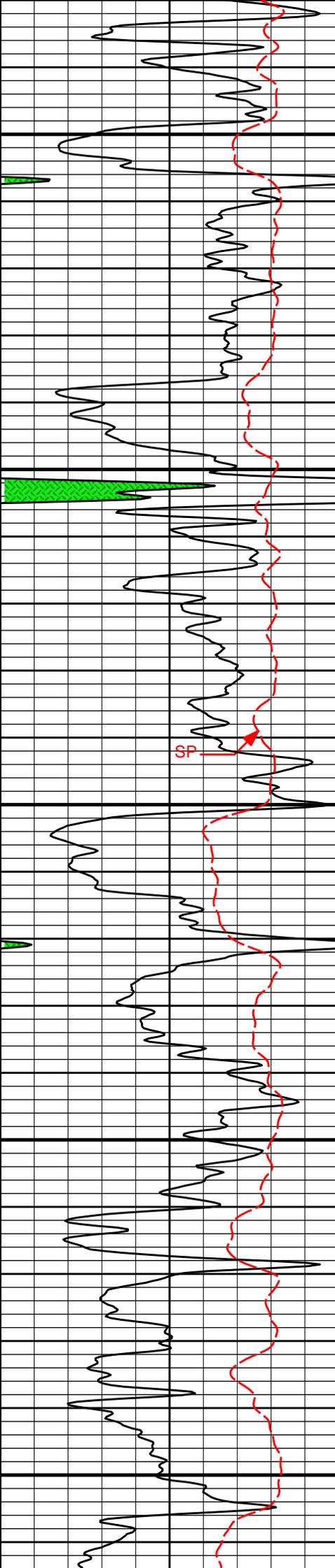


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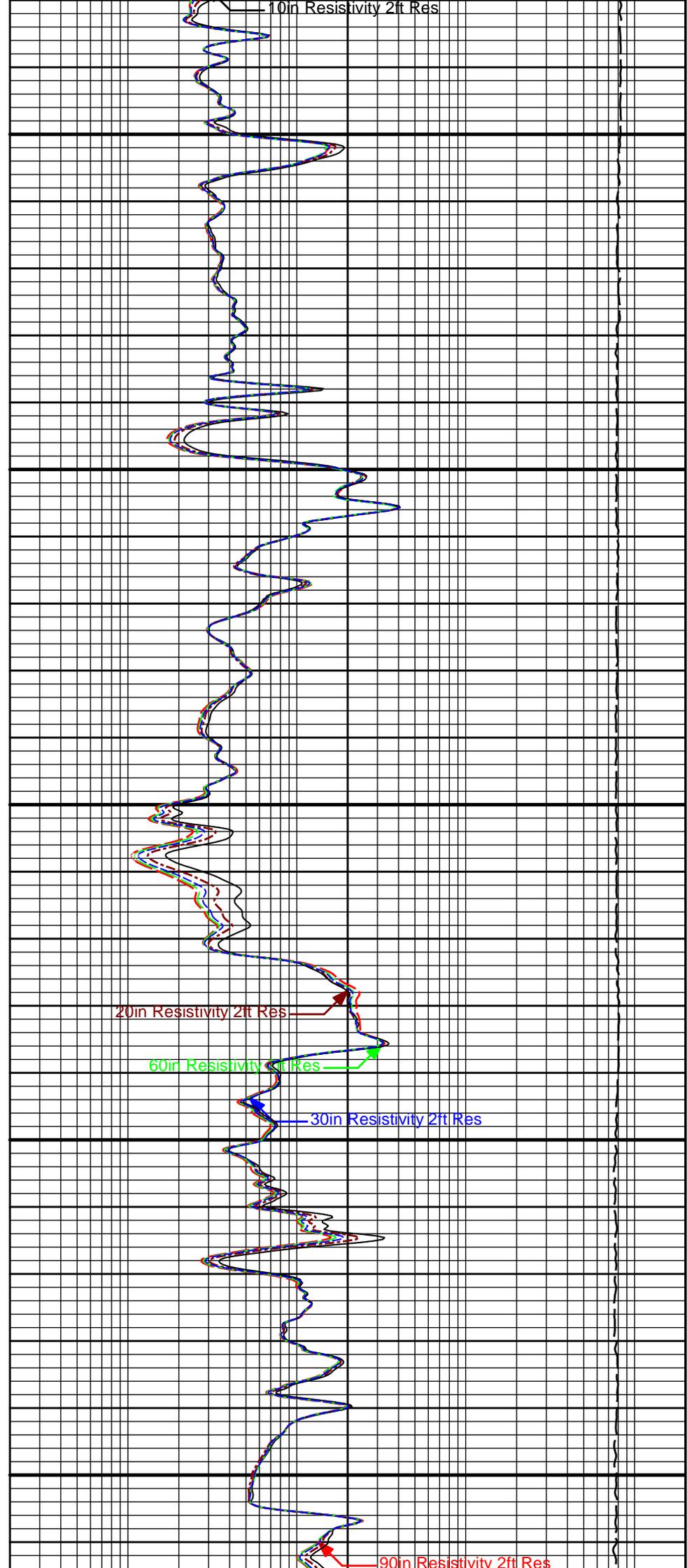
3100





3200

3300



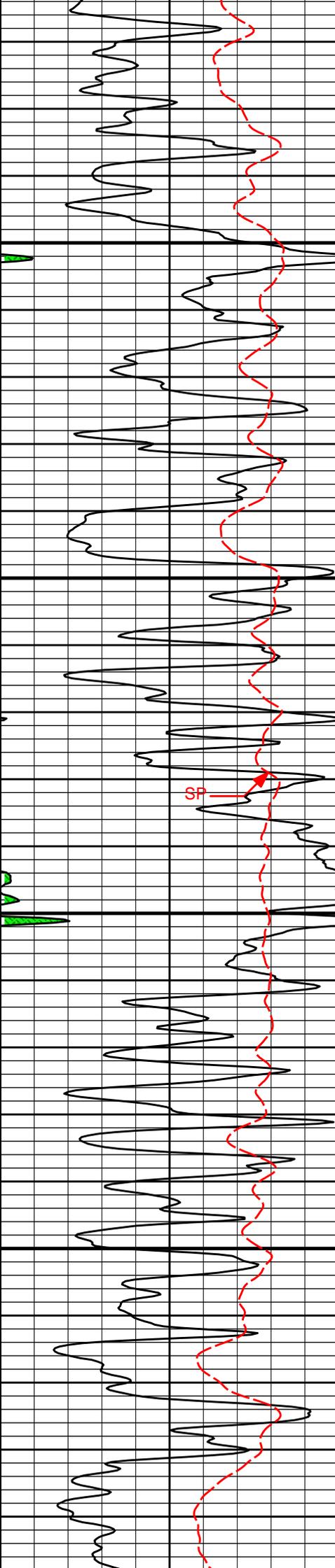
10in Resistivity 2ft Res

20in Resistivity 2ft Res

60in Resistivity 2ft Res

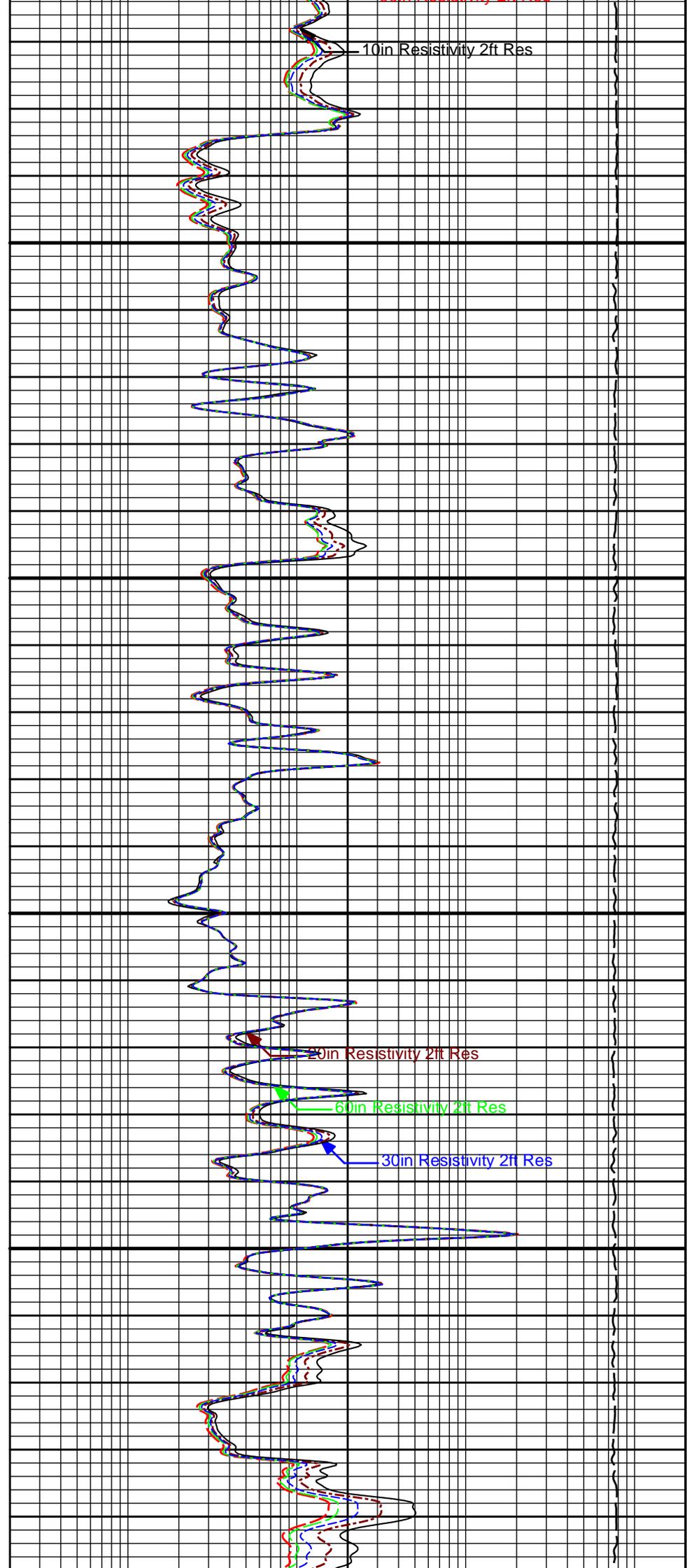
30in Resistivity 2ft Res

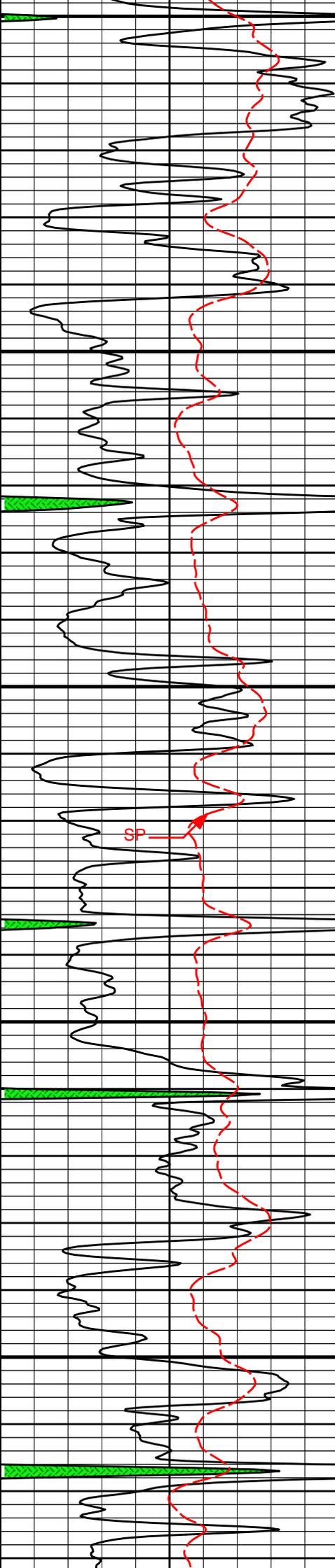
90in Resistivity 2ft Res



3400

3500

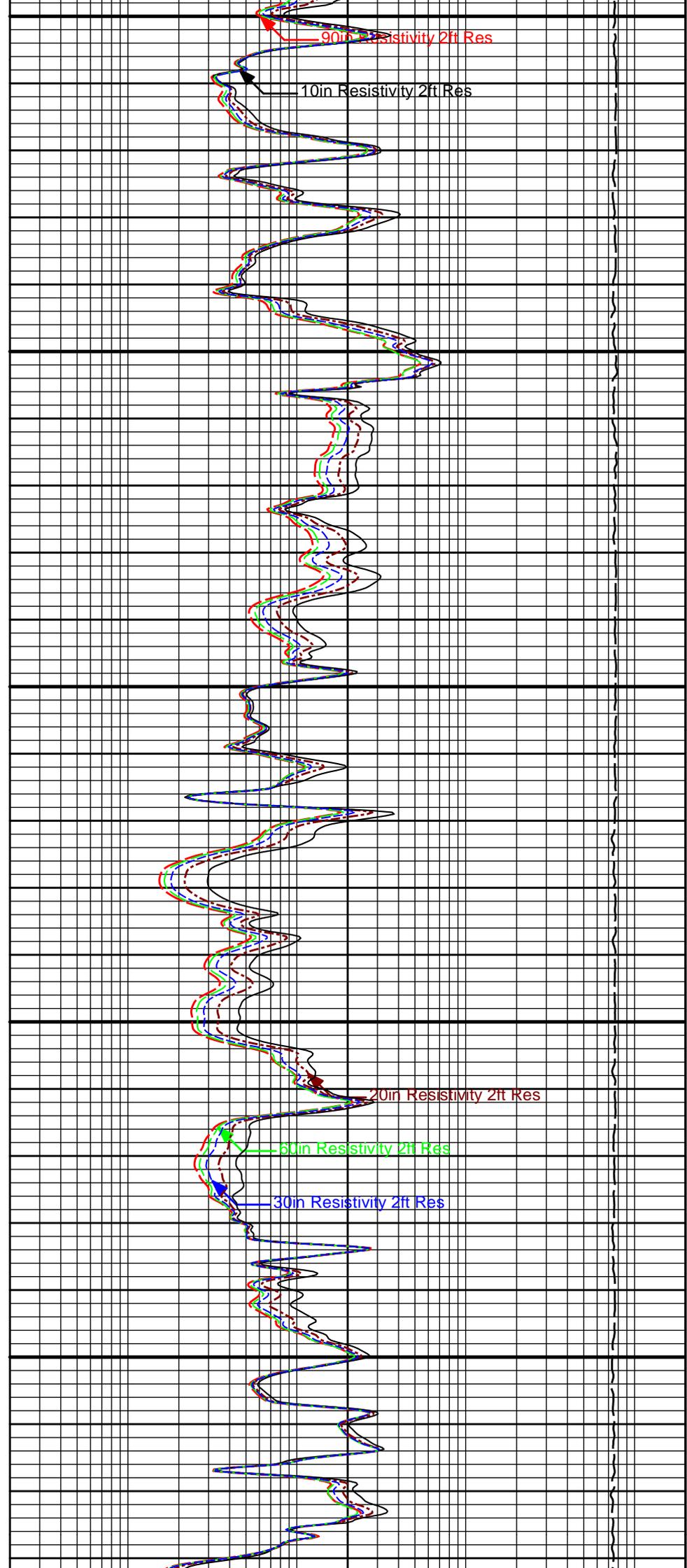


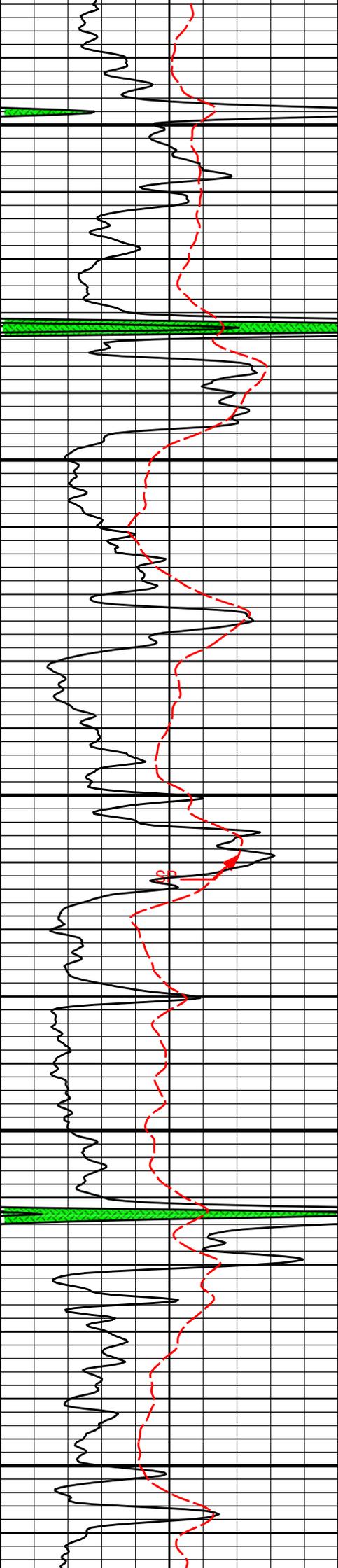


3600

3700

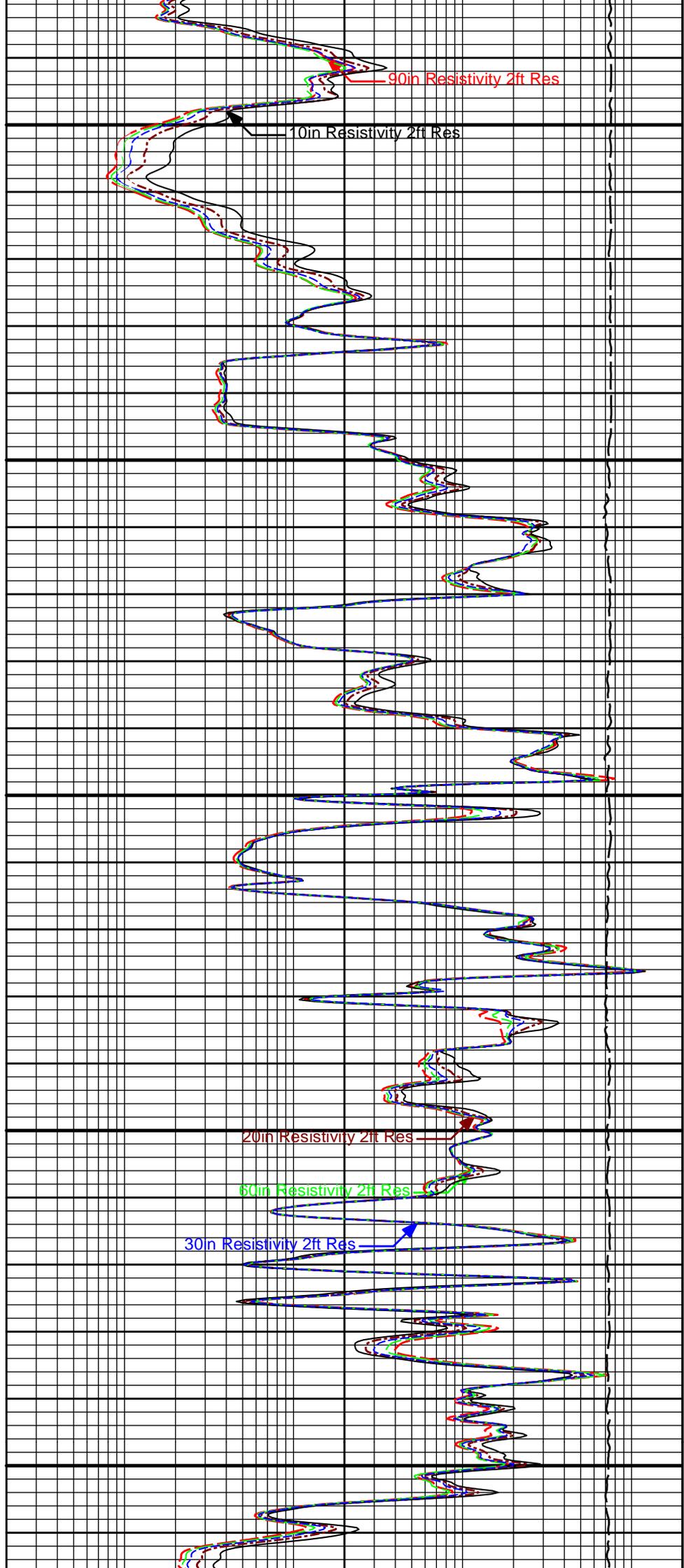
3800

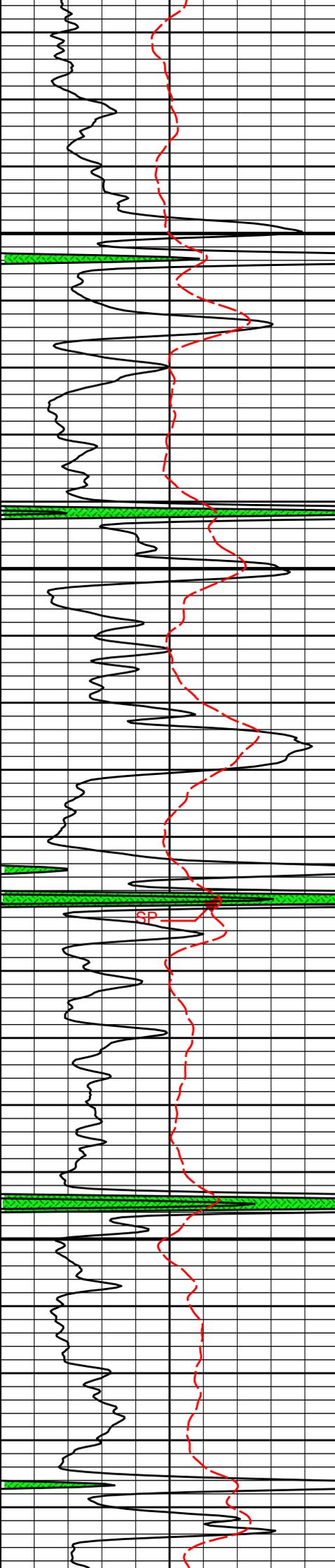




3900

4000

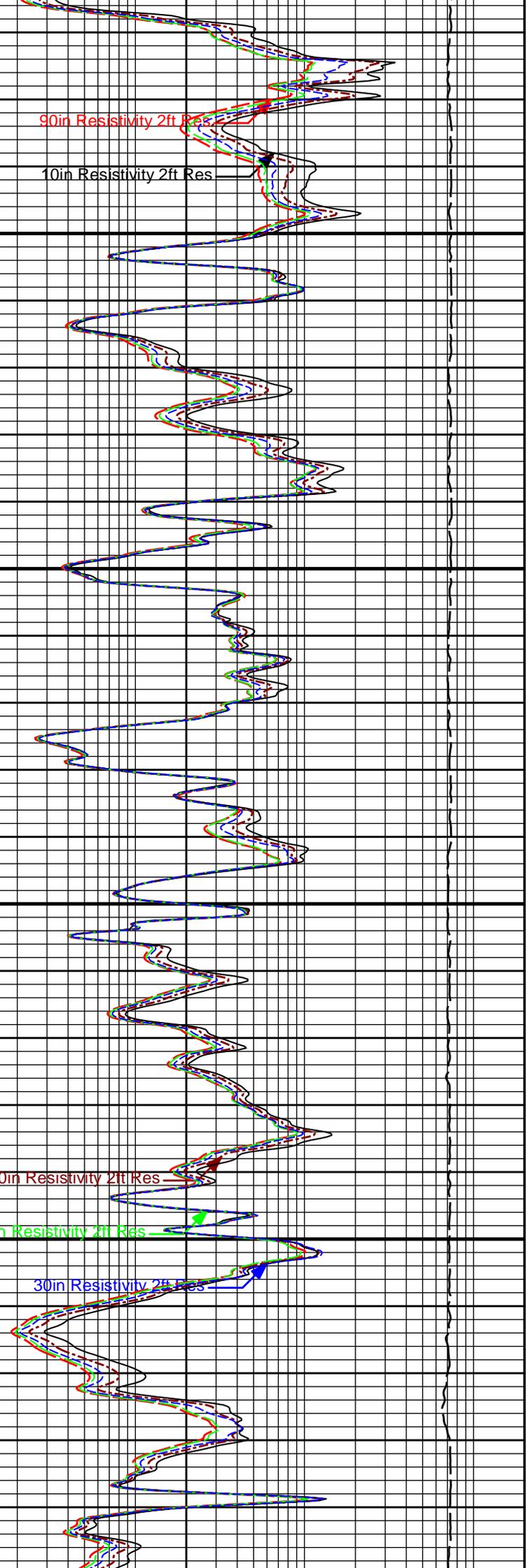


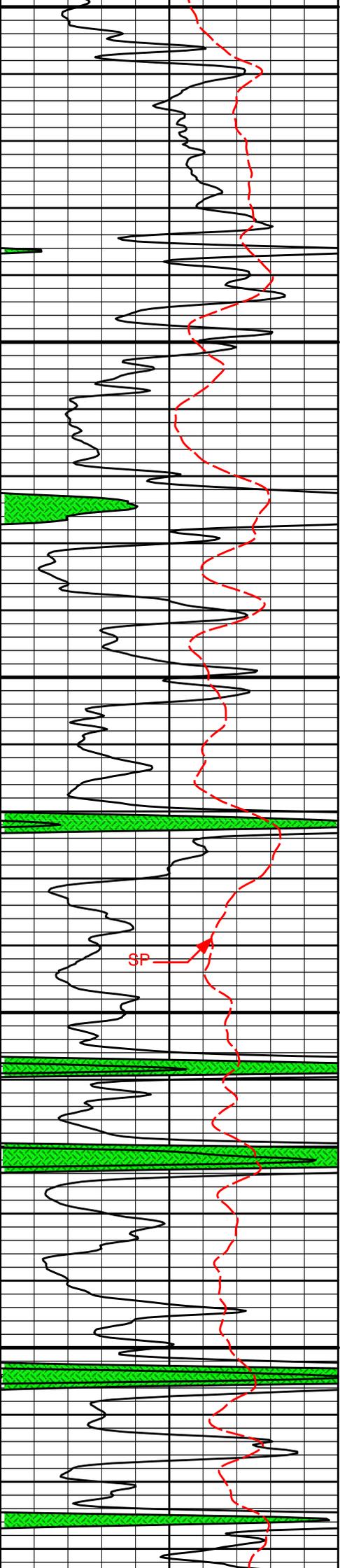


4100

4200

4300

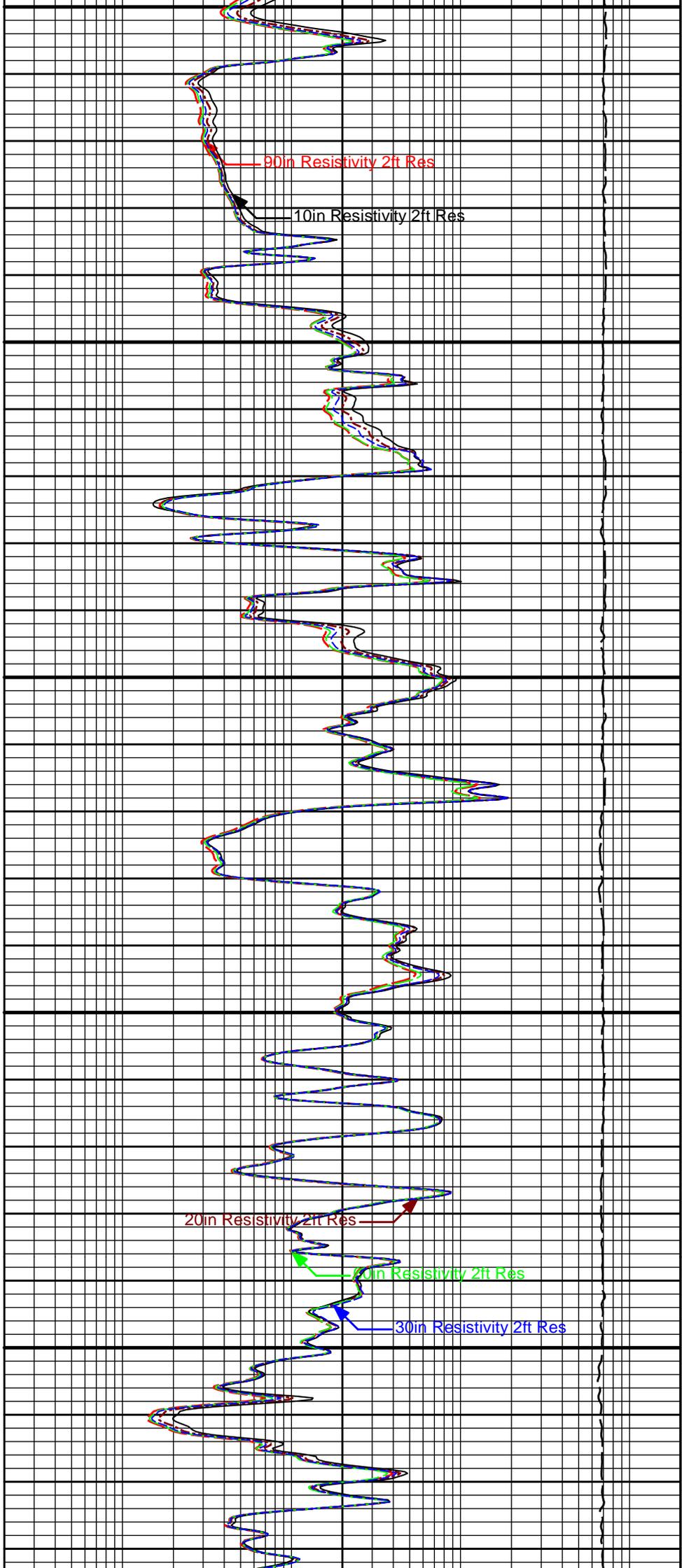




4300

4400

4500



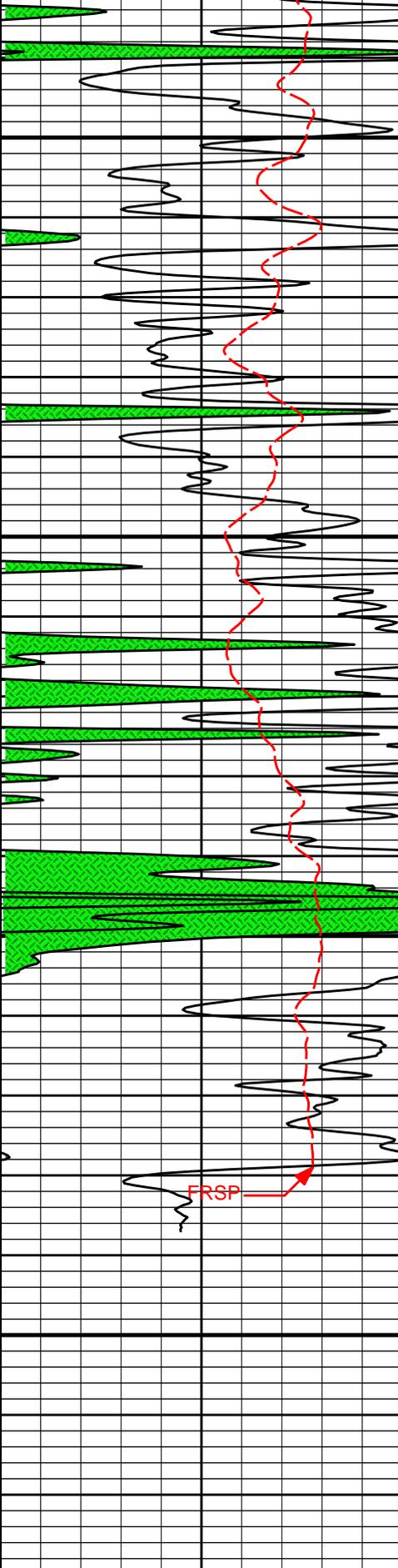
90in Resistivity 2ft Res

10in Resistivity 2ft Res

20in Resistivity 2ft Res

60in Resistivity 2ft Res

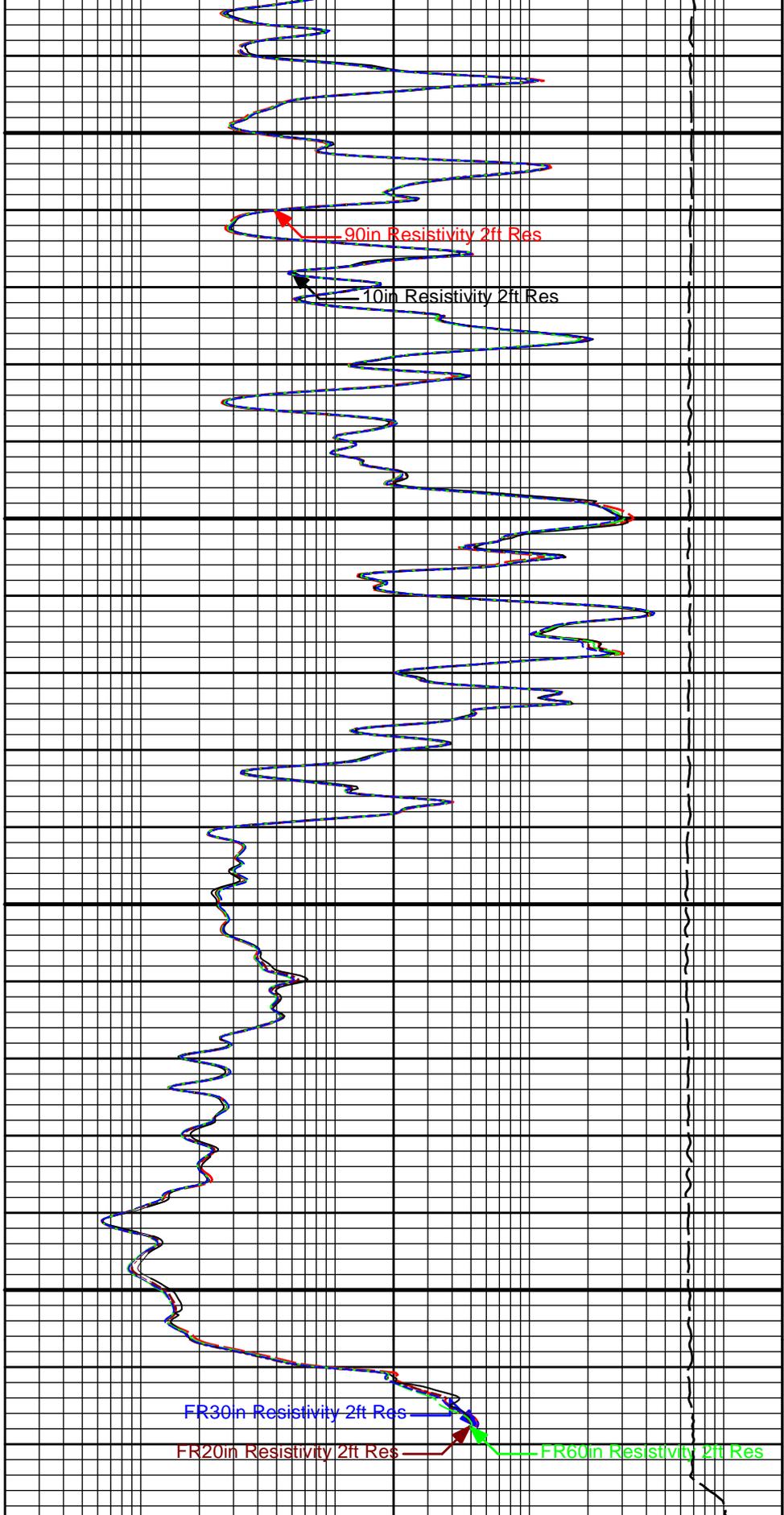
30in Resistivity 2ft Res



4600

4700

TD



90in Resistivity 2ft Res

10in Resistivity 2ft Res

FR30in Resistivity 2ft Res

FR20in Resistivity 2ft Res

FR60in Resistivity 2ft Res

0 Gamma API 150

api

SP -20[+

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

	ohm-metre	
0.2	20in Resistivity 2ft Res	2000
	ohmm	
0.2	10in Resistivity 2ft Res	2K
	ohmm	

HALLIBURTON

Plot Time: 02-Oct-16 03:30:29
 Plot Range: 353 ft to 4730.5 ft
 Data: ROSE_5-1\Well Based\MAIN\
 Plot File: \\-LOCAL-ROSE_5-1\Well Based\ACRT\ACRT_5inch_main

5 INCH MAIN LOG

5 INCH MAIN LOG

HALLIBURTON

Plot Time: 02-Oct-16 03:30:29
 Plot Range: 4298 ft to 4731.83 ft
 Data: ROSE_5-1\Well Based\REPEAT\
 Plot File: \\-LOCAL-ROSE_5-1\Well Based\ACRT\ACRT_5inch_repeat

5 INCH MAIN LOG

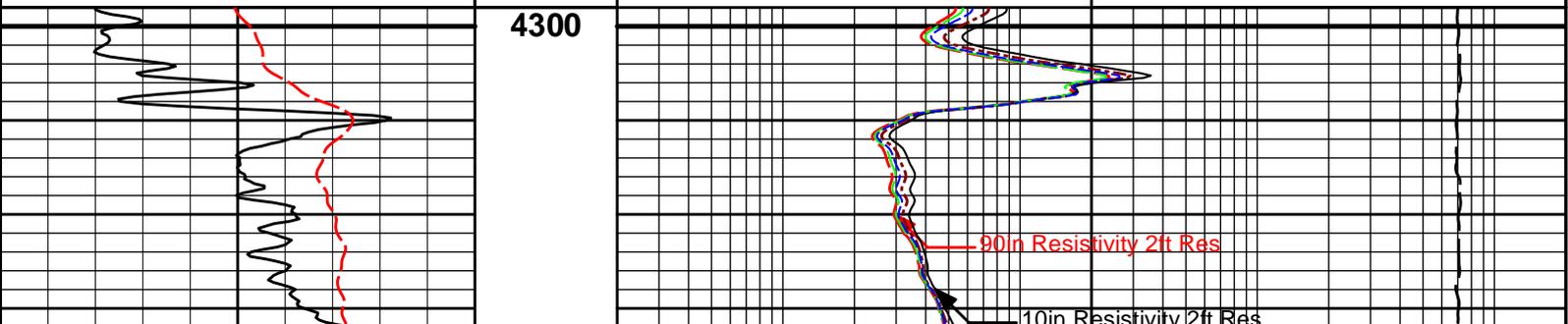
5 INCH MAIN LOG

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	
0.2	90in Resistivity 2ft Res	2K
	ohmm	

SP	-]20[+
Gamma API	150
api	

4300

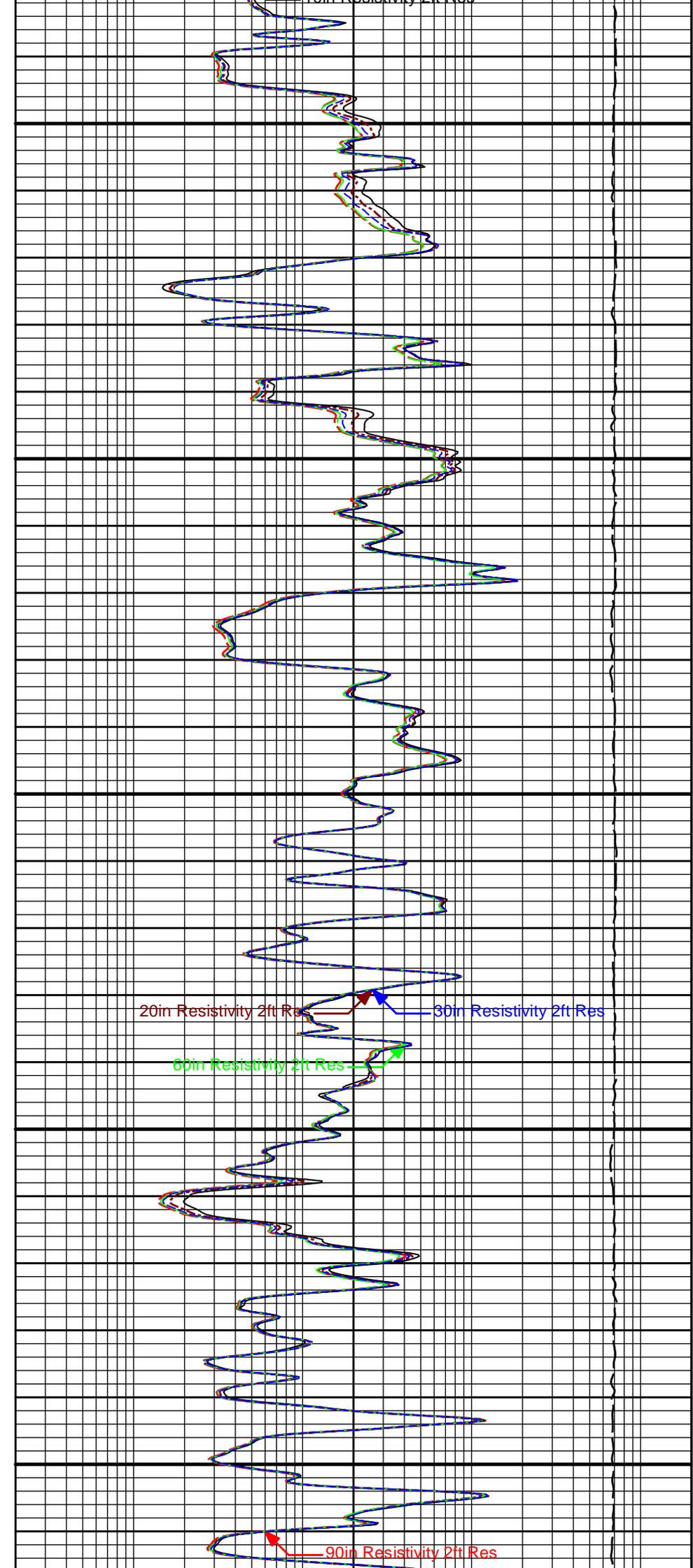
15K	Tension	0
	pounds	





4400

4500

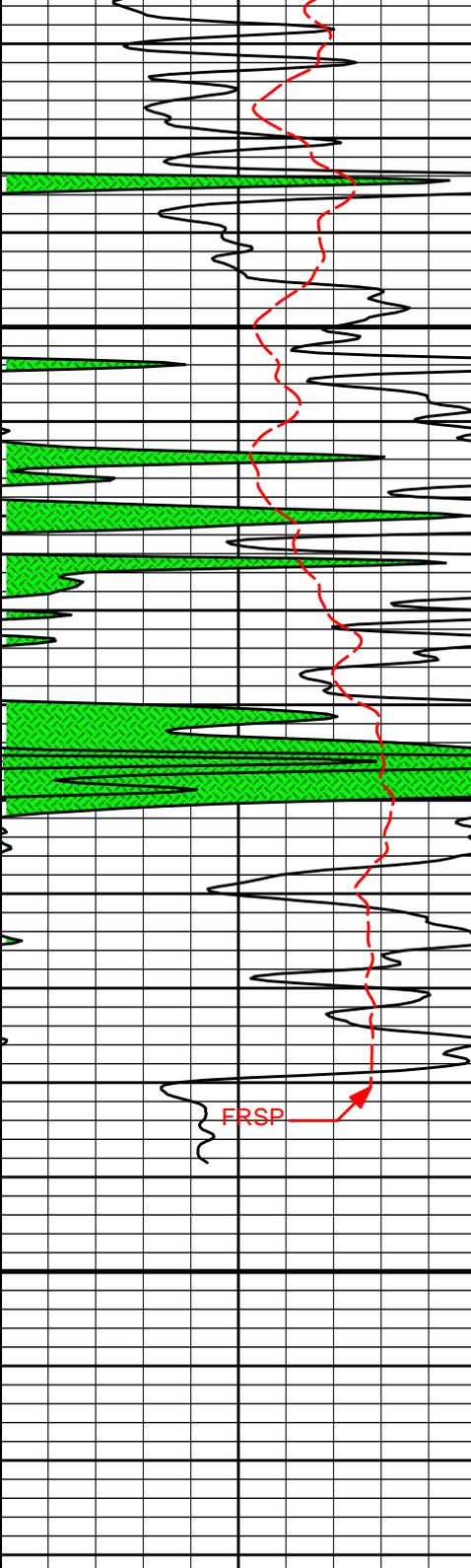


20in Resistivity 2ft Res

30in Resistivity 2ft Res

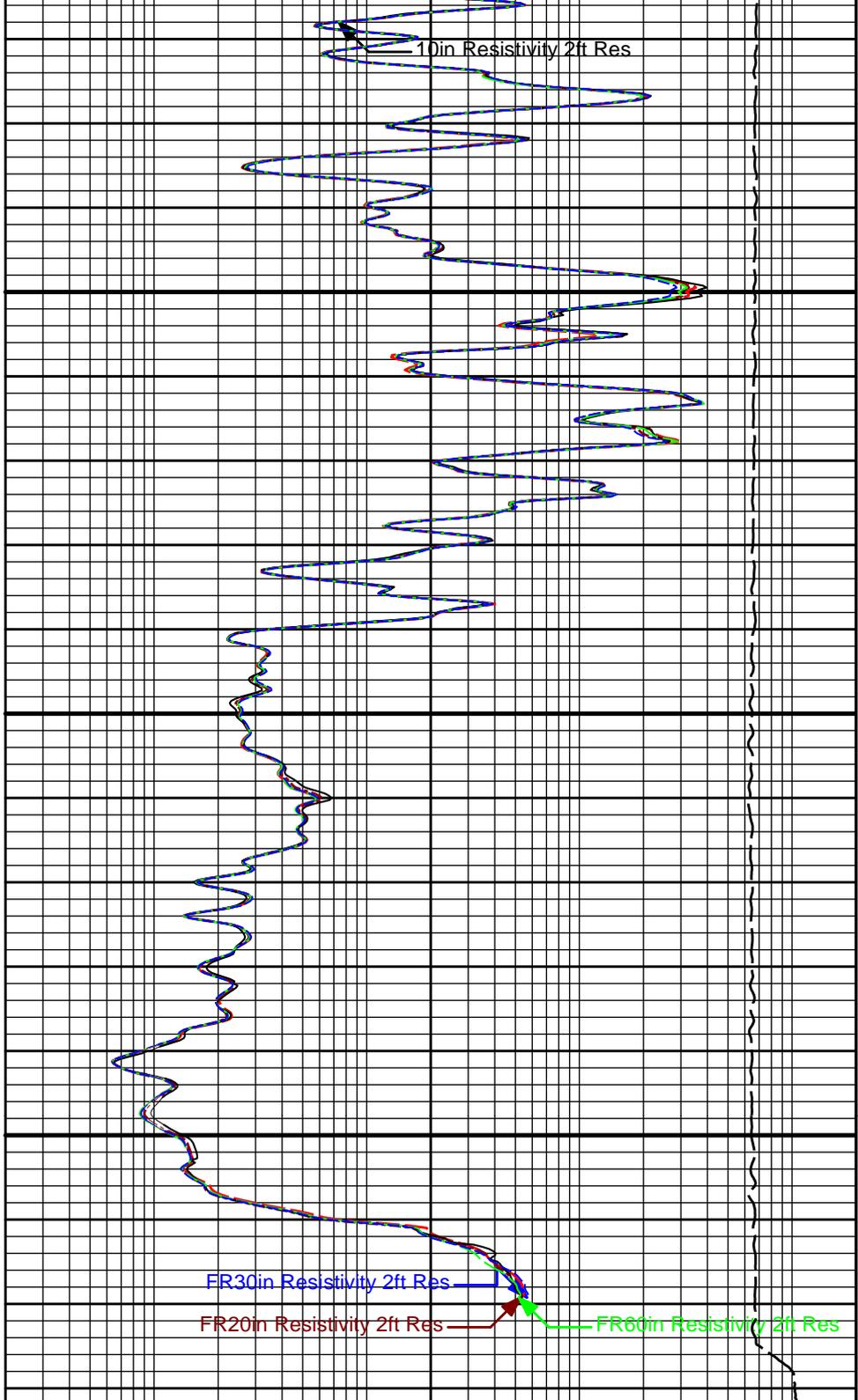
60in Resistivity 2ft Res

90in Resistivity 2ft Res



4600

4700



0 Gamma API 150
api

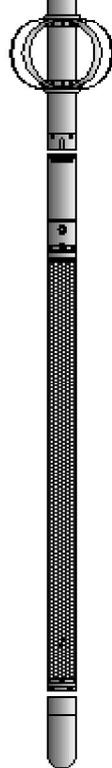
15K Tension 0
pounds

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	

ACRt Instrument- 11022962 50.00 lbs
 Centralizer 25-12345679 8.00 lbs

Ø 4.000 in*
 Ø 3.625 in



5.03 ft
 14.55 ft
 14.22 ft
 0.33 ft
 0.00 ft

ACRt Sonde- 11005909 200.00 lbs

Ø 3.625 in

Mud Resistivity @ 13.19 ft

ACRt @ 9.21 ft

Bull Nose-12345678 5.00 lbs

Ø 2.750 in

Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	00000025	37.50	3.03	53.29	300.00
XOHD	Hostile to Dits Cross Over	12345678	20.00	0.95	52.34	300.00
SP	SP Sub	11441455	60.00	3.74	48.60	300.00
GTET	Gamma Telemetry Tool	11048627	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron	11019643	174.00	9.69	30.40	60.00
DCNT	DSN Decentralizer	11019643	6.60	5.13 *	33.73	300.00
SDLT	Spectral Density Tool	10950489	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad	10809130	65.00	2.55 *	21.79	60.00
MICP	Microlog Pad	10950489	8.00	1.00 *	22.08	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11022962	50.00	5.03	14.55	120.00
OBCEN	Centralizer - 25 in. Overbody	12345679	8.00	2.08 *	16.09	300.00
ACRt	Array Compensated True Resistivity Sonde Section	11005909	200.00	14.22	0.33	120.00
BLNS	Bull Nose	12345678	5.00	0.33	0.00	300.00

Total 1,159.10 56.32

* Not included in Total Length and Length Accumulation.

Data: ROSE_5-110001 GTET-DSN-SDL-ACRTIDLE

Date: 02-Oct-16 00:30:38

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	9.800	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	0.748	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	4730.00	ft
SHARED	BHT	Bottom Hole Temperature	123.0	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	
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	0.58	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	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	
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

HALLIBURTON**CALIBRATION REPORT****NATURAL GAMMA RAY TOOL SHOP CALIBRATION**

Tool Name: GTET - 11048627

Reference Calibration Date: 25-Jul-16 10:06:29

Engineer: MICHAEL RICHTER

Calibration Date: 19-Sep-16 03:51:24

Software Version: WL INSITE R5.0.5 (Build 8)

Calibration Version: 1

Calibrator Source S/N: TB-146

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Measurement	Measured	Calibrated	Units
Background	48.3	49.7	api
Background + Calibrator	310.1	319.4	api
Calibrator	261.8	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11048627

Reference Calibration Date: 19-Sep-16 03:51:24

Engineer: MICHAEL RICHTER

Calibration Date: 19-Sep-16 03:55:07

Software Version: WL INSITE R5.0.5 (Build 8)

Calibration Version: 1

Calibrator Source S/N: TB-146

Calibrator API Reference:265.00 api

Equivalent Calibrator API Reference:269.6 api

Field Verification	Shop	Field	Units
Background	49.7	49.4	api
Background + Calibrator	319.4	321.6	api
Calibrator	269.6	272.2	api

Shop	Field	Difference	Tolerance
269.6	272.2	-2.6	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: ACRt Sonde - 11005909

Reference Calibration Date: 11-Feb-16 14:59:24

Engineer: COTHREN

Calibration Date: 10-Aug-16 14:06:40

Software Version: WL INSITE R5.0.0 (Build 4)

Calibration Version: 1

Host Tool Name: ACRt Instrument - 11022962

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.0115	1.05	0.95	1.0146	1.05	0.95	1.0127	1.05
A2 (50")	0.95	1.0116	1.05	0.95	1.0152	1.05	0.95	1.0142	1.05
A3 (29")	0.95	1.0038	1.05	0.95	1.0063	1.05	0.95	1.0031	1.05
A4 (17")	0.95	1.0195	1.05	0.95	1.0196	1.05	0.95	1.0175	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0054	1.05	0.95	1.0012	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9992	1.05	0.95	0.9967	1.05

SONDE OFFSET

Subarray	R12KHz			R36KHz			R72KHz		
	(mmho/m)			(mmho/m)			(mmho/m)		
A1 (80")	-0.494			-3.435			-5.305		
A2 (50")	-2.120			-3.948			-4.446		

A3 (29")	-15.675	-4.932	-2.952
A4 (17")	-102.777	-31.305	-26.433
A5 (10")	N/A	-99.200	-45.302
A6 (6")	N/A	289.143	151.739

TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.91	1.3	Mud Cell	0.95	1.00	1.05
36K	1.0	1.36	2.0				
72K	1.0	1.60	2.0				

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-11048627						
Gamma Ray Calibrator	269.6	272.2	-----	-2.6	+/- 9.00	api
ACRt Sonde-11005909						
Mud Cell	1.00	-----	-----	0	-----	ohm-m

Data: ROSE_5-1\0001 GTET-DSN-SDL-ACRTIDLE Date: 02-Oct-16 00:31:39

HALLIBURTON

INPUTS, DELAYS AND FILTERS TABLE

Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
Rwa / CrossPlot				
TPUL	Tension Pull	56.32	NO	
BS	Bit Size	56.32	NO	
HDIA	Measured Hole Diameter	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	50.56	NO	
SP	Spontaneous Potential	50.56	BLK	1.250
SPR	Raw Spontaneous Potential	50.56	NO	
SPO	Spontaneous Potential Offset	50.56	NO	
GTET				
TPUL	Tension Pull	42.54	NO	
GR	Natural Gamma Ray API	42.54	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.54	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.54	W	1.416 , 0.750
HDIA	Measured Hole Diameter	0.00	NO	
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	

DSNT

TPUL	Tension Pull	32.30	NO	
RNDS	Near Detector Telemetry Counts	32.40	BLK	1.417
RFDS	Far Detector Telemetry Counts	33.15	TRI	0.583
DNTT	DSN Tool Temperature	32.40	NO	
DSNS	DSN Tool Status	32.30	NO	
ERND	Near Detector Telemetry Counts EVR	32.40	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	33.15	BLK	0.000
ENTM	DSN Tool Temperature EVR	32.40	NO	
HDIA	Measured Hole Diameter	0.00	NO	

SDLT

TPUL	Tension Pull	22.40	NO	
PCAL	Pad Caliper	22.40	TRI	0.250
ACAL	Arm Caliper	22.40	TRI	0.250

ACRt Sonde

TPUL	Tension Pull	2.73	NO	
F1R1	ACRT 12KHz - 80in R value	8.98	BLK	0.000
F1X1	ACRT 12KHz - 80in X value	8.98	BLK	0.000
F1R2	ACRT 12KHz - 50in R value	6.48	BLK	0.000
F1X2	ACRT 12KHz - 50in X value	6.48	BLK	0.000
F1R3	ACRT 12KHz - 29in R value	4.98	BLK	0.000
F1X3	ACRT 12KHz - 29in X value	4.98	BLK	0.000
F1R4	ACRT 12KHz - 17in R value	3.98	BLK	0.000
F1X4	ACRT 12KHz - 17in X value	3.98	BLK	0.000
F1R5	ACRT 12KHz - 10in R value	3.48	BLK	0.000
F1X5	ACRT 12KHz - 10in X value	3.48	BLK	0.000
F1R6	ACRT 12KHz - 6in R value	3.23	BLK	0.000
F1X6	ACRT 12KHz - 6in X value	3.23	BLK	0.000
F2R1	ACRT 36KHz - 80in R value	8.98	BLK	0.000
F2X1	ACRT 36KHz - 80in X value	8.98	BLK	0.000
F2R2	ACRT 36KHz - 50in R value	6.48	BLK	0.000
F2X2	ACRT 36KHz - 50in X value	6.48	BLK	0.000
F2R3	ACRT 36KHz - 29in R value	4.98	BLK	0.000
F2X3	ACRT 36KHz - 29in X value	4.98	BLK	0.000
F2R4	ACRT 36KHz - 17in R value	3.98	BLK	0.000
F2X4	ACRT 36KHz - 17in X value	3.98	BLK	0.000
F2R5	ACRT 36KHz - 10in R value	3.48	BLK	0.000
F2X5	ACRT 36KHz - 10in X value	3.48	BLK	0.000
F2R6	ACRT 36KHz - 6in R value	3.23	BLK	0.000
F2X6	ACRT 36KHz - 6in X value	3.23	BLK	0.000
F3R1	ACRT 72KHz - 80in R value	8.98	BLK	0.000
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X value	3.98	BLK	0.000
F3R5	ACRT 72KHz - 10in R value	3.48	BLK	0.000
F3X5	ACRT 72KHz - 10in X value	3.48	BLK	0.000
F3R6	ACRT 72KHz - 6in R value	3.23	BLK	0.000
F3X6	ACRT 72KHz - 6in X value	3.23	BLK	0.000
RMUD	Mud Resistivity	12.52	BLK	0.000
F1RT	Transmitter Reference 12 KHz Real Signal	2.73	BLK	0.000
F1XT	Transmitter Reference 12 KHz Imaginary Signal	2.73	BLK	0.000
F2RT	Transmitter Reference 36 KHz Real Signal	2.73	BLK	0.000
F2XT	Transmitter Reference 36 KHz Imaginary Signal	2.73	BLK	0.000

F3RT	Transmitter Reference 72 KHz Real Signal	2.73	BLK	0.000
F3XT	Transmitter Reference 72 KHz Imaginary Signal	2.73	BLK	0.000
TFPU	Upper Feedpipe Temperature Calculated	2.73	BLK	0.000
TFPL	Lower Feedpipe Temperature Calculated	2.73	BLK	0.000
ITMP	Instrument Temperature	2.73	BLK	0.000
TCVA	Temperature Correction Values Loop Off	2.73	NO	
TIDV	Instrument Temperature Derivative	2.73	NO	
TUDV	Upper Temperature Derivative	2.73	NO	
TLDV	Lower Temperature Derivative	2.73	NO	
TRBD	Receiver Board Temperature	2.73	NO	
HDIA	Measured Hole Diameter	0.00	NO	

Microlog Pad

TPUL	Tension Pull	22.58	NO	
MINV	Microlog Lateral	22.58	BLK	0.750
MNOR	Microlog Normal	22.58	BLK	0.750

SDLT Pad

TPUL	Tension Pull	22.39	NO	
NAB	Near Above	22.21	BLK	0.920
NHI	Near Cesium High	22.21	BLK	0.920
NLO	Near Cesium Low	22.21	BLK	0.920
NVA	Near Valley	22.21	BLK	0.920
NBA	Near Barite	22.21	BLK	0.920
NDE	Near Density	22.21	BLK	0.920
NPK	Near Peak	22.21	BLK	0.920
NLI	Near Lithology	22.21	BLK	0.920
NBAU	Near Barite Unfiltered	22.21	BLK	0.250
NLIU	Near Lithology Unfiltered	22.21	BLK	0.250
FAB	Far Above	22.56	BLK	0.250
FHI	Far Cesium High	22.56	BLK	0.250
FLO	Far Cesium Low	22.56	BLK	0.250
FVA	Far Valley	22.56	BLK	0.250
FBA	Far Barite	22.56	BLK	0.250
FDE	Far Density	22.56	BLK	0.250
FPK	Far Peak	22.56	BLK	0.250
FLI	Far Lithology	22.56	BLK	0.250
PTMP	Pad Temperature	22.40	BLK	0.920
NHV	Near Detector High Voltage	21.79	NO	
FHV	Far Detector High Voltage	21.79	NO	
ITMP	Instrument Temperature	21.79	NO	
DDHV	Detector High Voltage	21.79	NO	
HDIA	Measured Hole Diameter	0.00	NO	

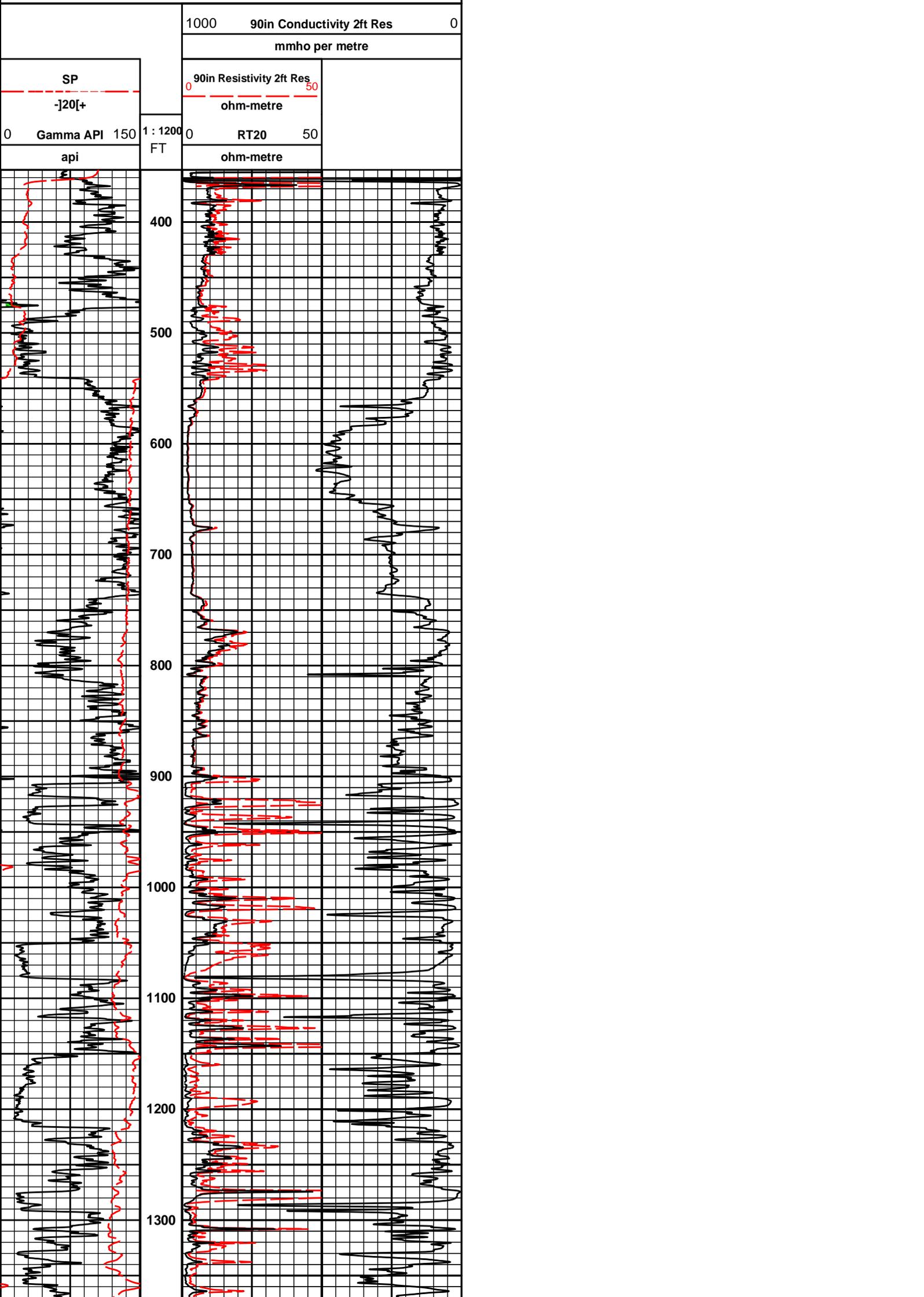
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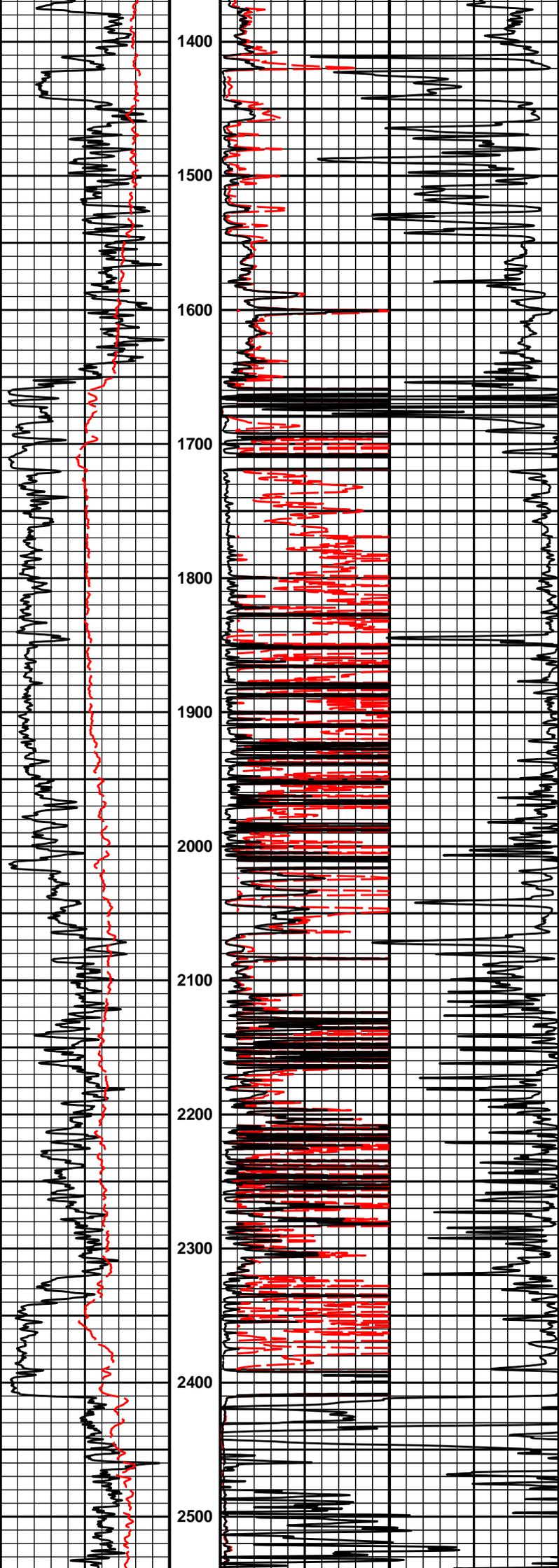
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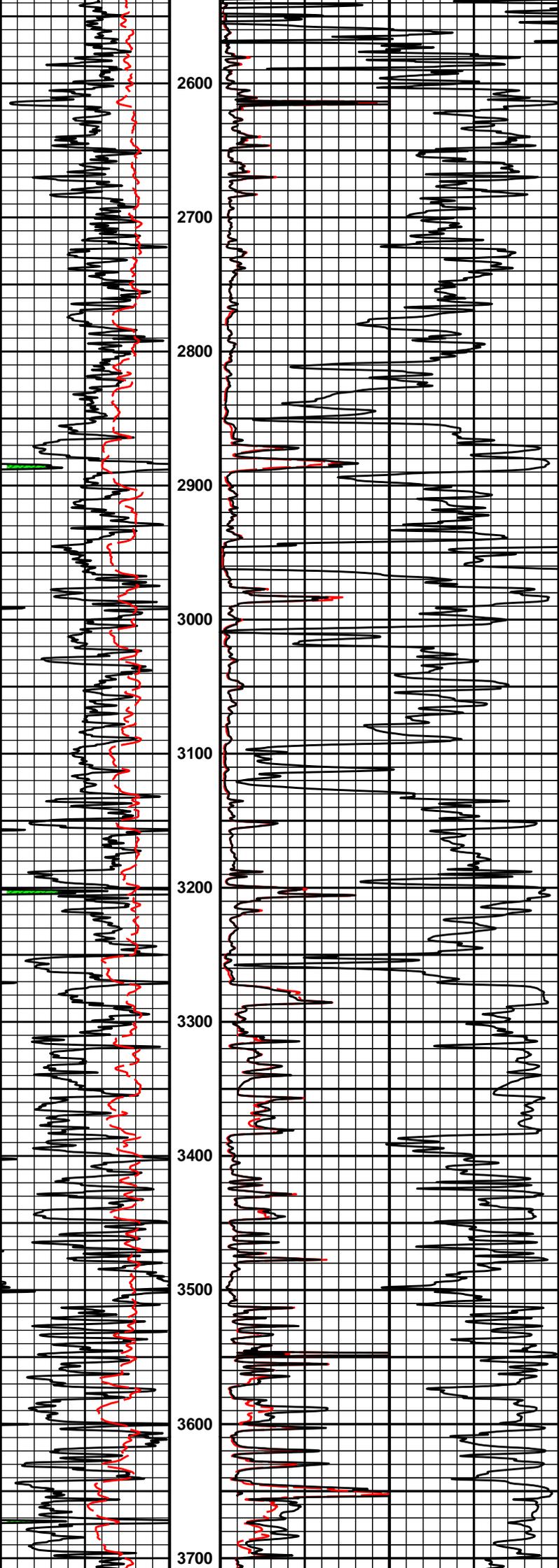
HALLIBURTON
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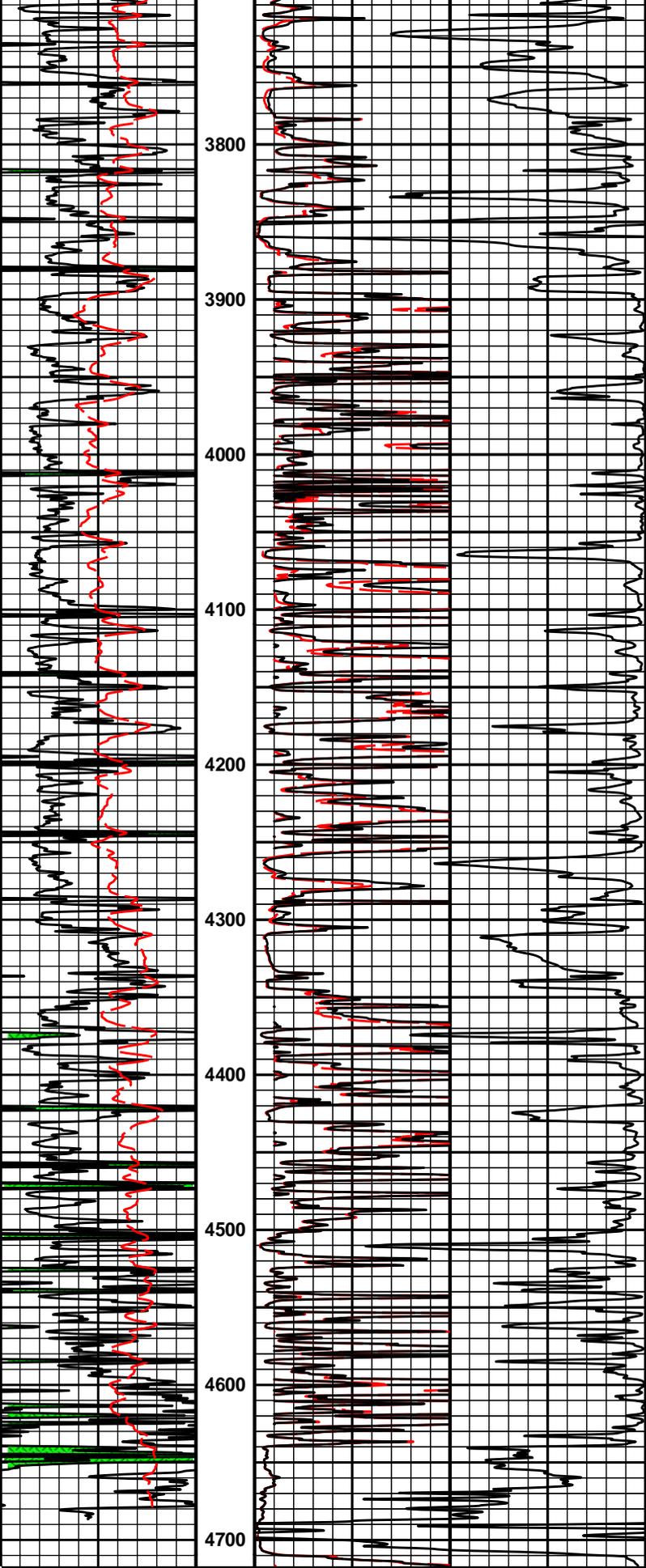
1 INCH MAIN LOG

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: 02-Oct-16 03:30:36
Plot Range: 353 ft to 4717.75 ft
Data: ROSE_5-1\Well Based\MAIN\
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1 INCH MAIN LOG

1 INCH CORRELATION LOG

COMPANY	HARTMAN OIL CO., INC		
WELL	ROSE #5-1		
FIELD	AMERICAN BEAUTY		
COUNTY	WICHITA	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	