

ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

COMPANY	HARTMAN OIL CO., INC.		
WELL	ROSE 4-1		
FIELD/BLOCK	AMERICAN BEAUTY		
COUNTY	WICHITA	STATE KANSAS	
API No.	15-203-20281-00-00	Other Services: MICROLOG DSNT, SDLT BSAT	
Location	(SHL) 330' FNL & 1310' FWL E2-NE-NW-NW		
Sect. 1	Twp. 16S	Rge. 35W	

Service Ticket No.: 901589273 API Serial No.: 15-203-20281-00-00 PGM Version: WL INSITE R4.2.0 (Build 2)

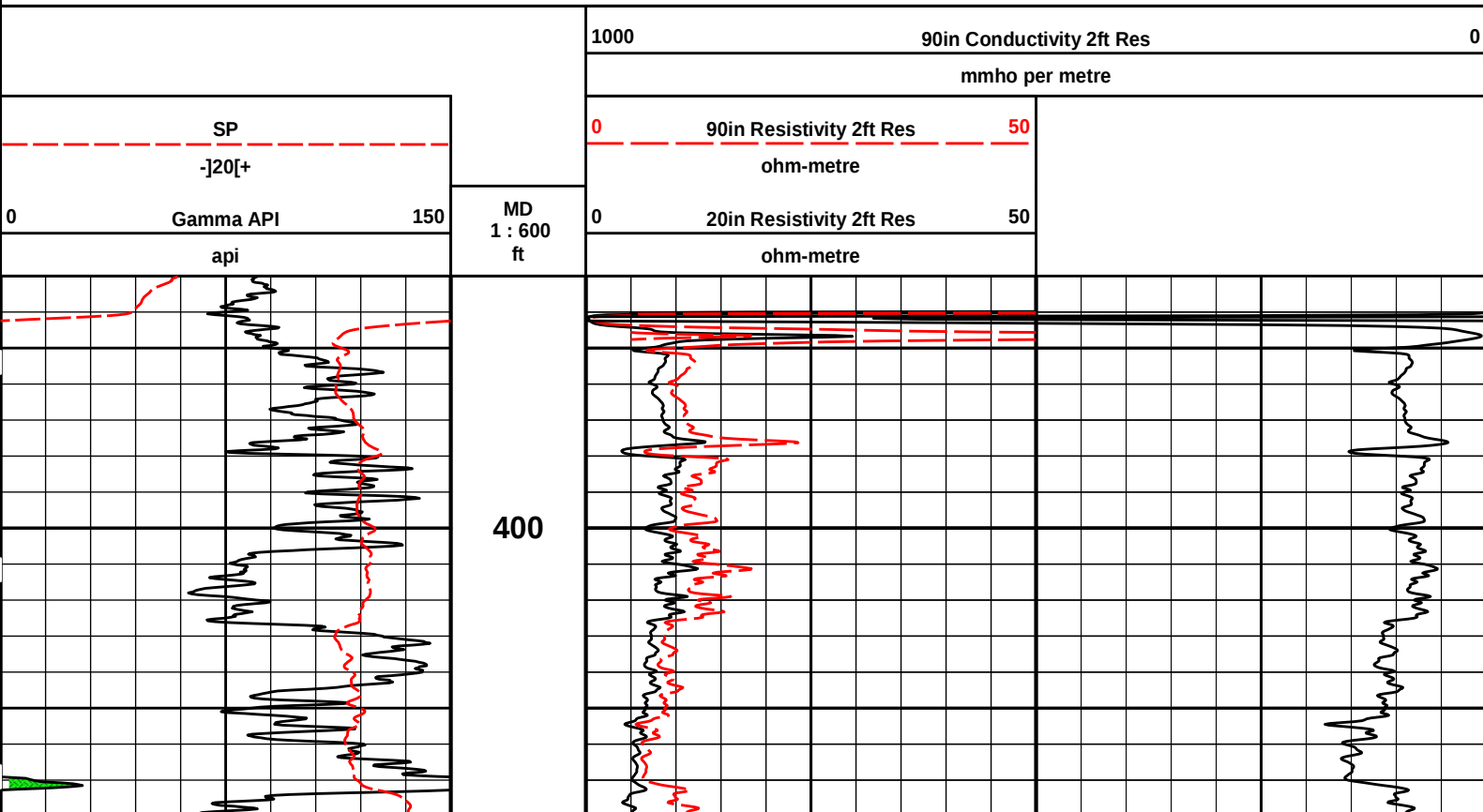
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE						RESISTIVITY SCALE CHANGES					
Date	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hole		
Depth-Driller											
Type Fluid in Hole											
Density	Viscosity										
Ph	Fluid Loss										
Source of Sample						RESISTIVITY EQUIPMENT DATA					
Rm @ Meas. Temp		@		@		Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other	
Rmf @ Meas. Temp.		@		@		ONE	ACRT	N/A	CENT	N/A	
Rmc @ Meas. Temp.		@		@			1962_S909				
Source Rmf	Rmc										
Rm @ BHT		@		@							
Rmf @ BHT		@		@							
Rmc @ BHT		@		@							
EQUIPMENT DATA											
GAMMA		ACOUSTIC				DENSITY			NEUTRON		
Run No.	ONE	Run No.		Run No.		Run No.		Run No.			
Serial No.	11048627	Serial No.		Serial No.		Serial No.		Serial No.			
Model No.	GTET	Model No.		Model No.		Model No.		Model No.			
Diameter	3.625"	No. of Cent.		Diameter		Diameter		Diameter			
Detector Model No.	T-102	Spacing		Log Type		Log Type		Log Type			
Type	SCINT			Source Type		Source Type		Source Type			
Length	8'	LSA [Y/N]		Serial No.		Serial No.		Serial No.			
Distance to Source	10'	FWDA [Y/N]		Strength		Strength		Strength			

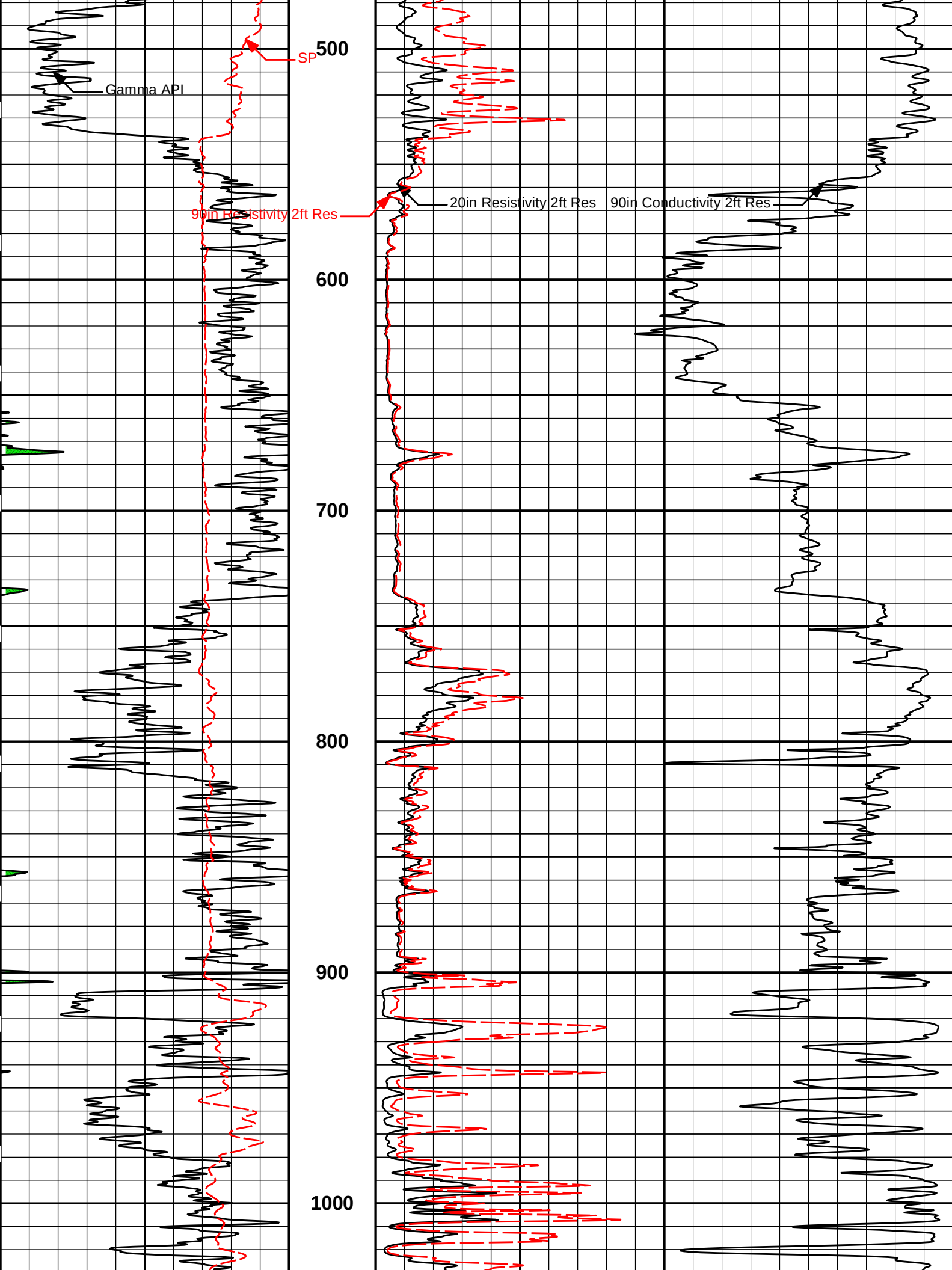
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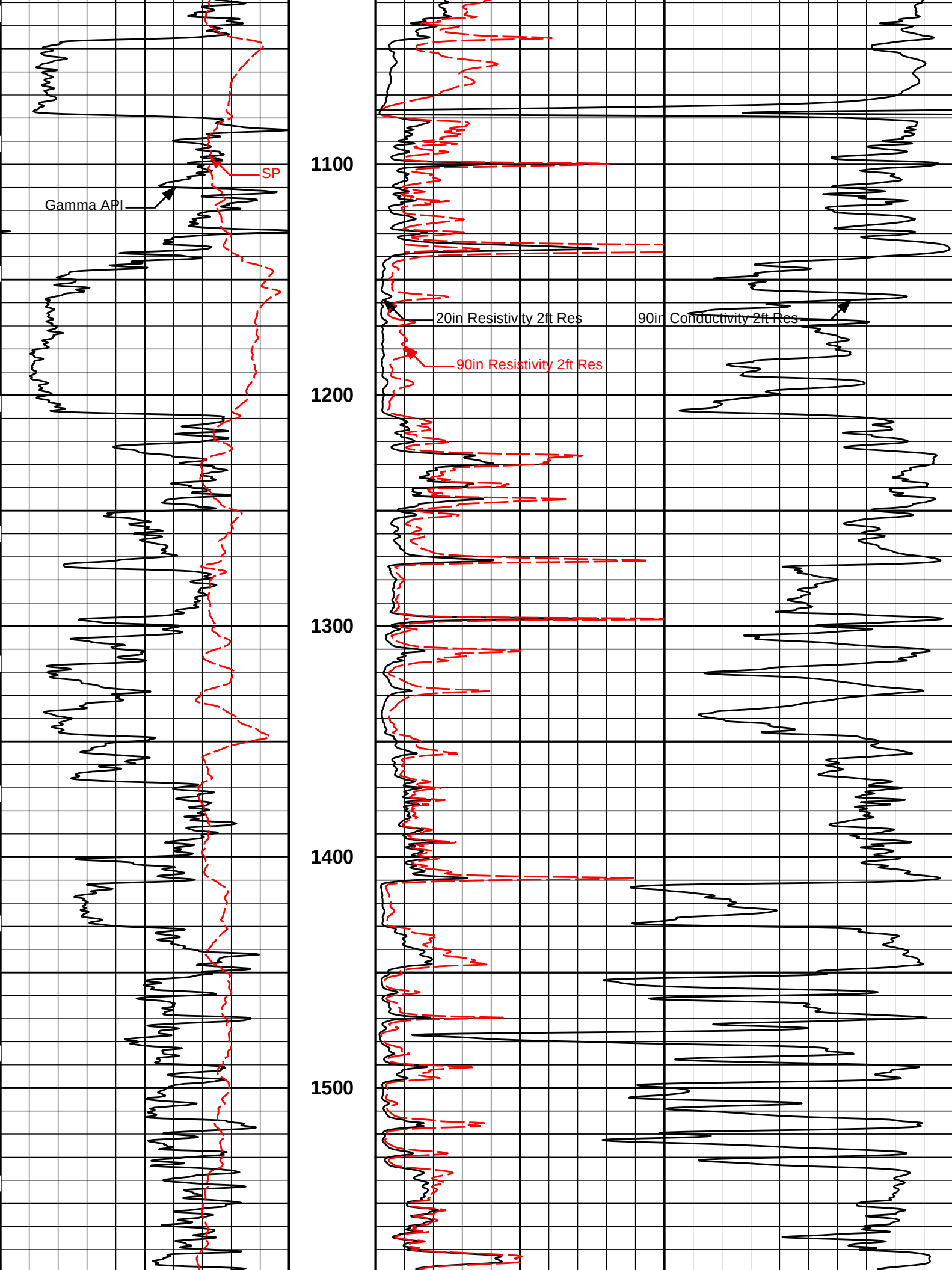
HALLIBURTON

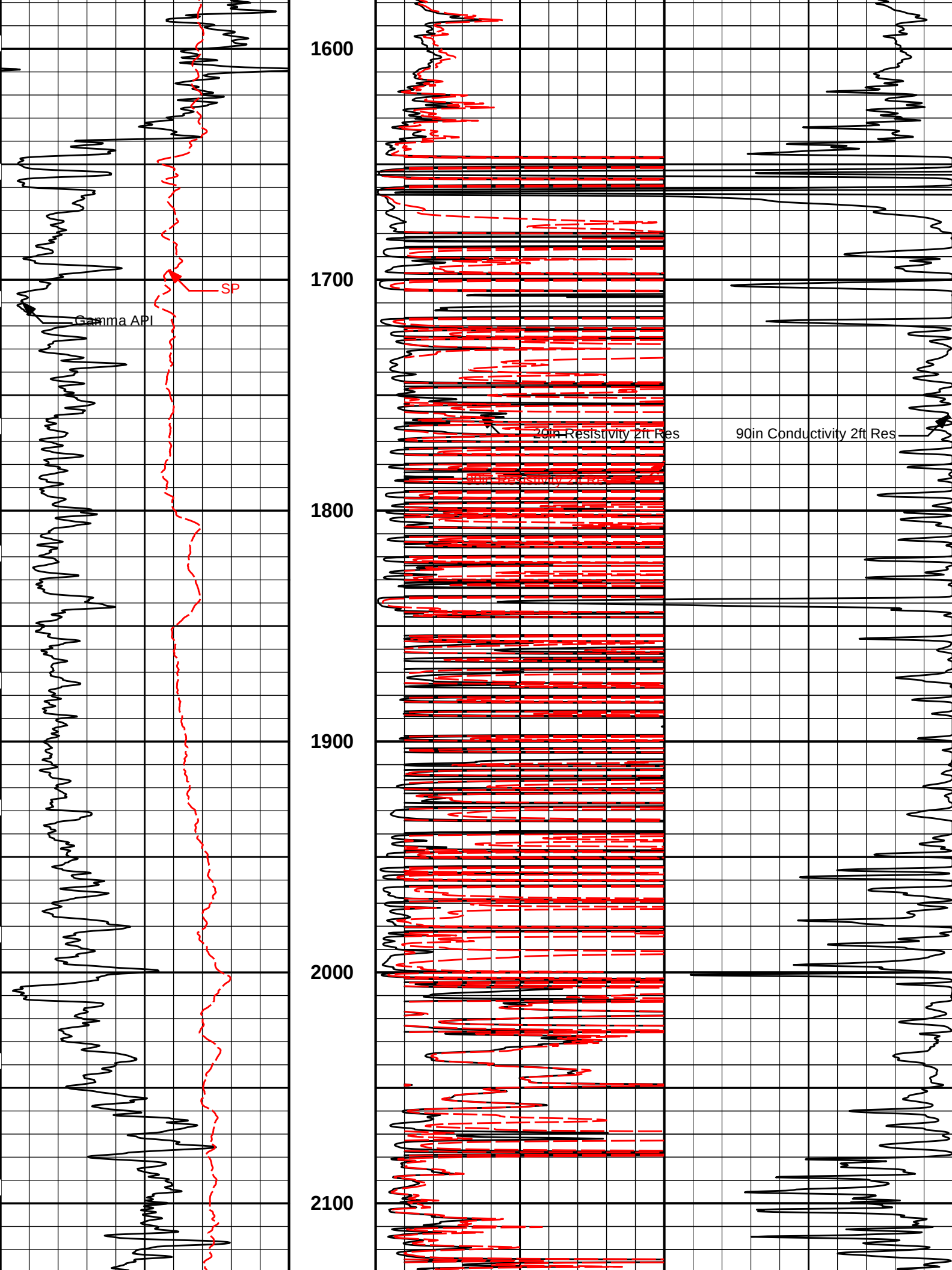
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Data: ROSE_4-1\Well Based\CASING\
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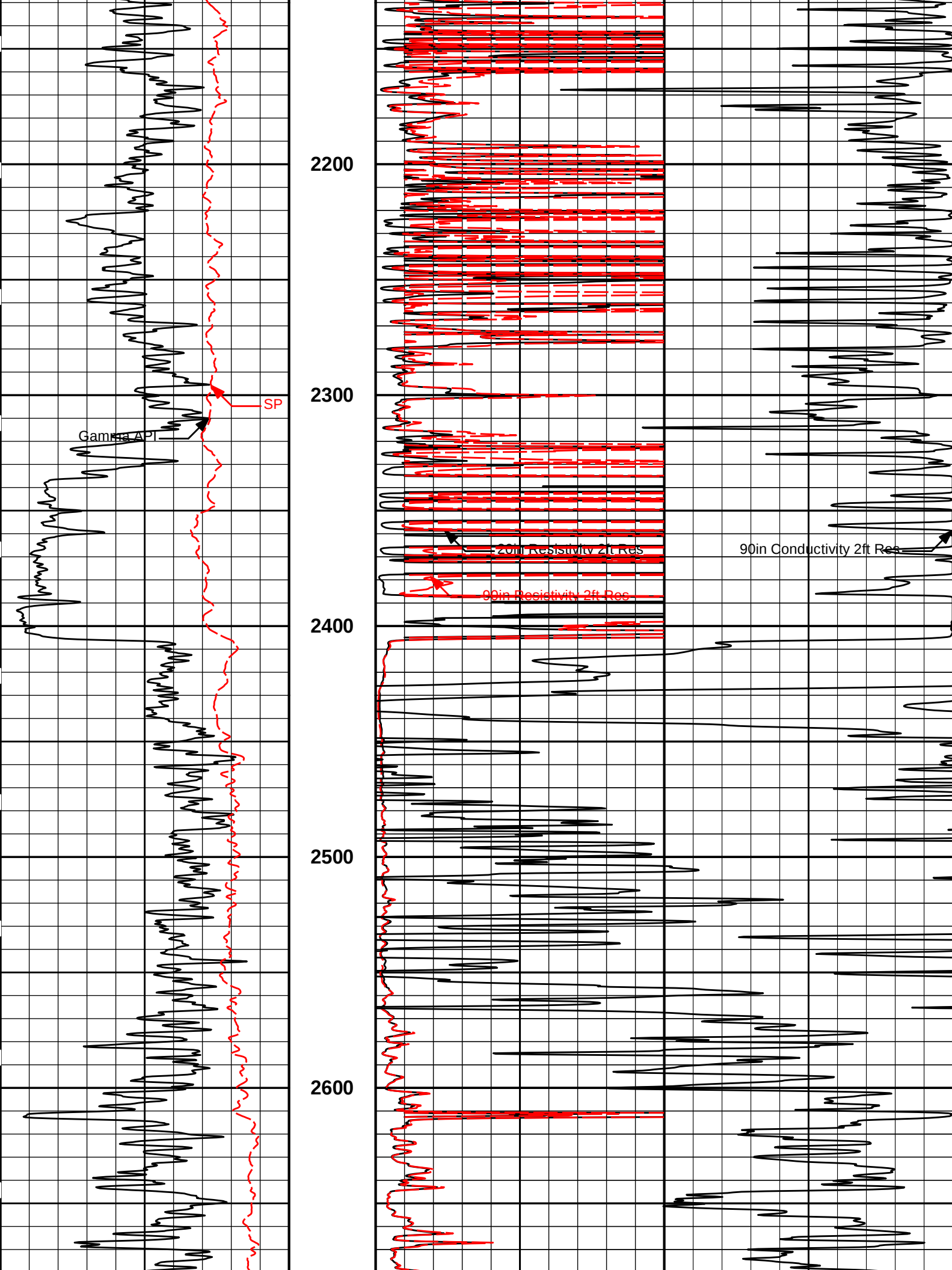
2 INCH MAIN LOG

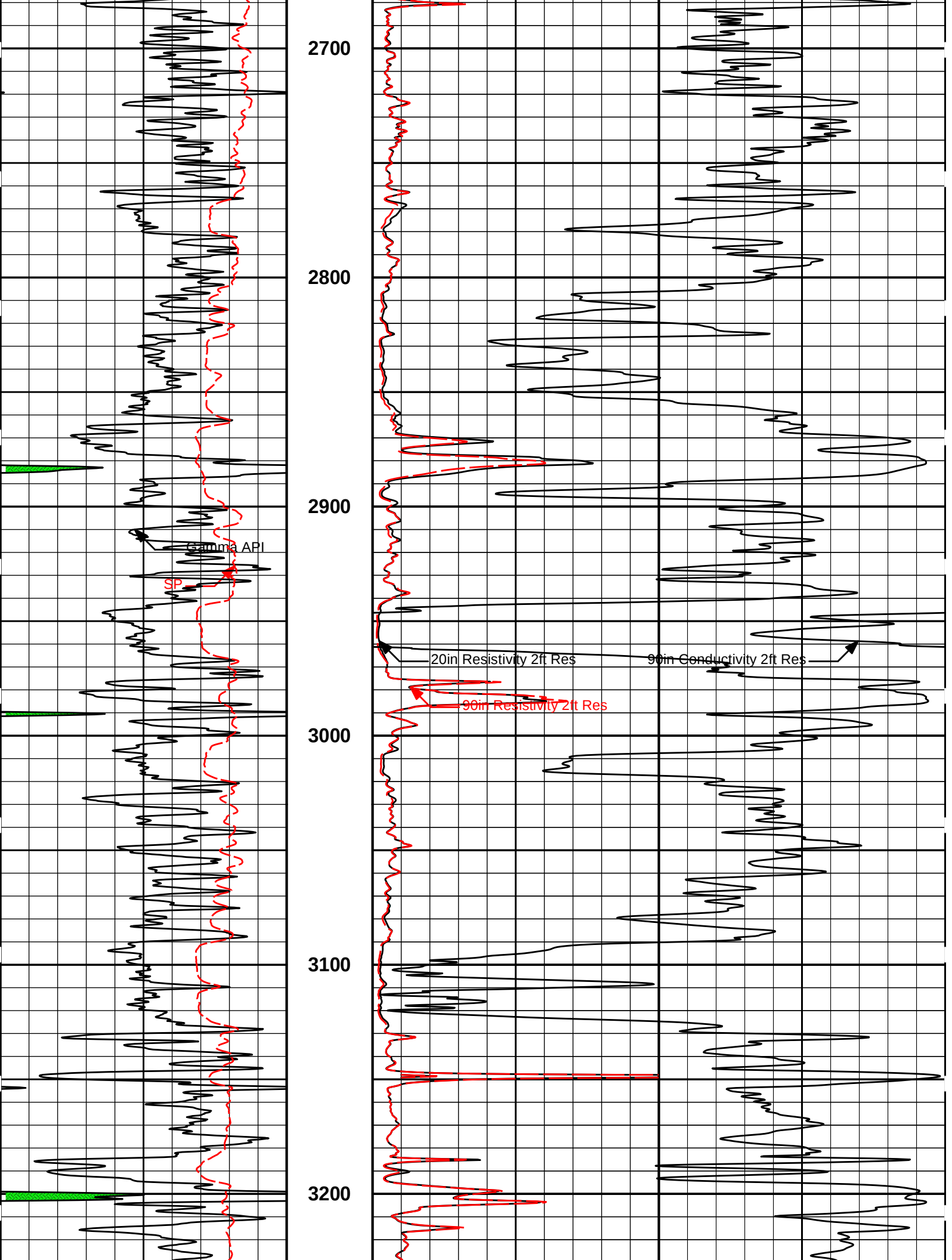


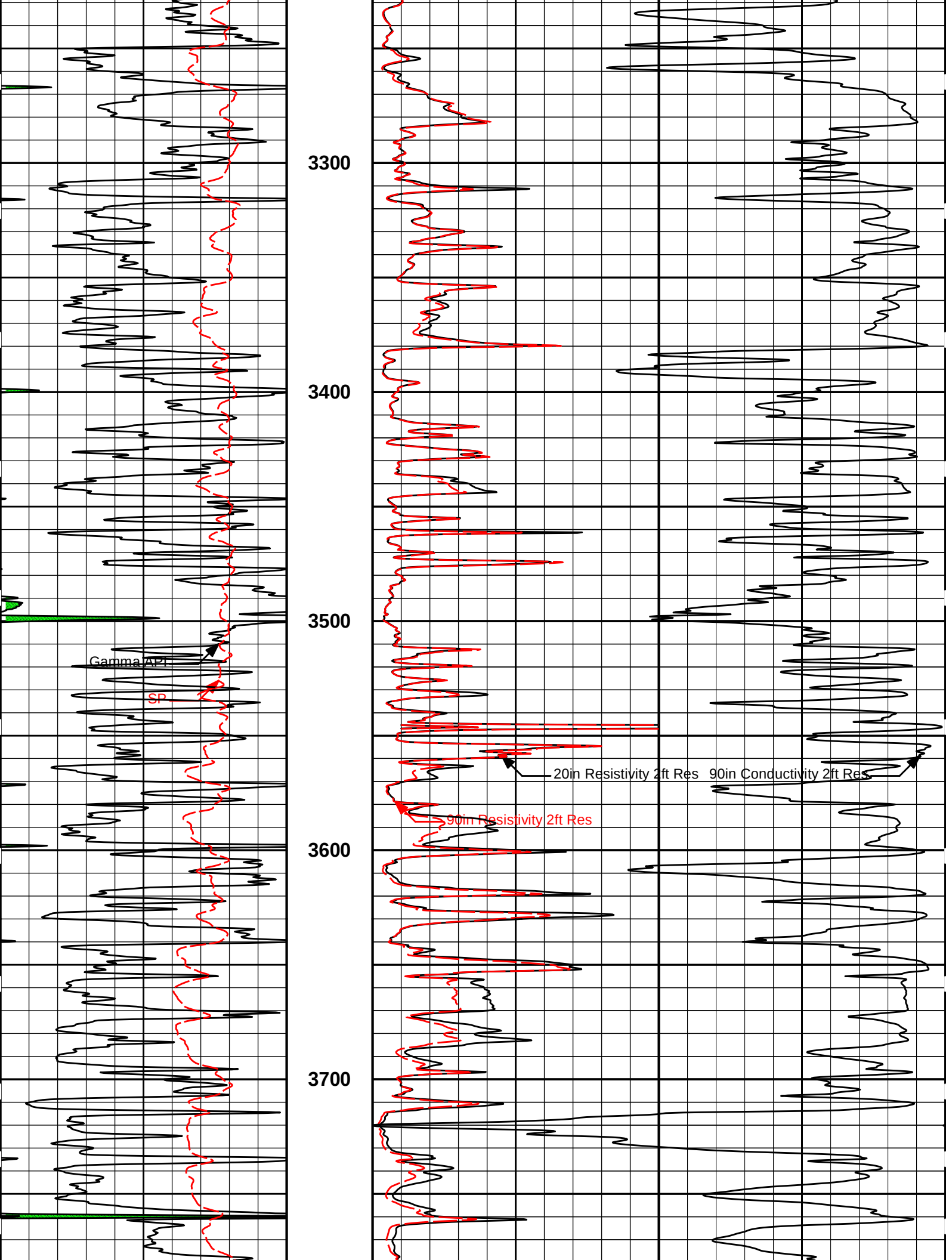


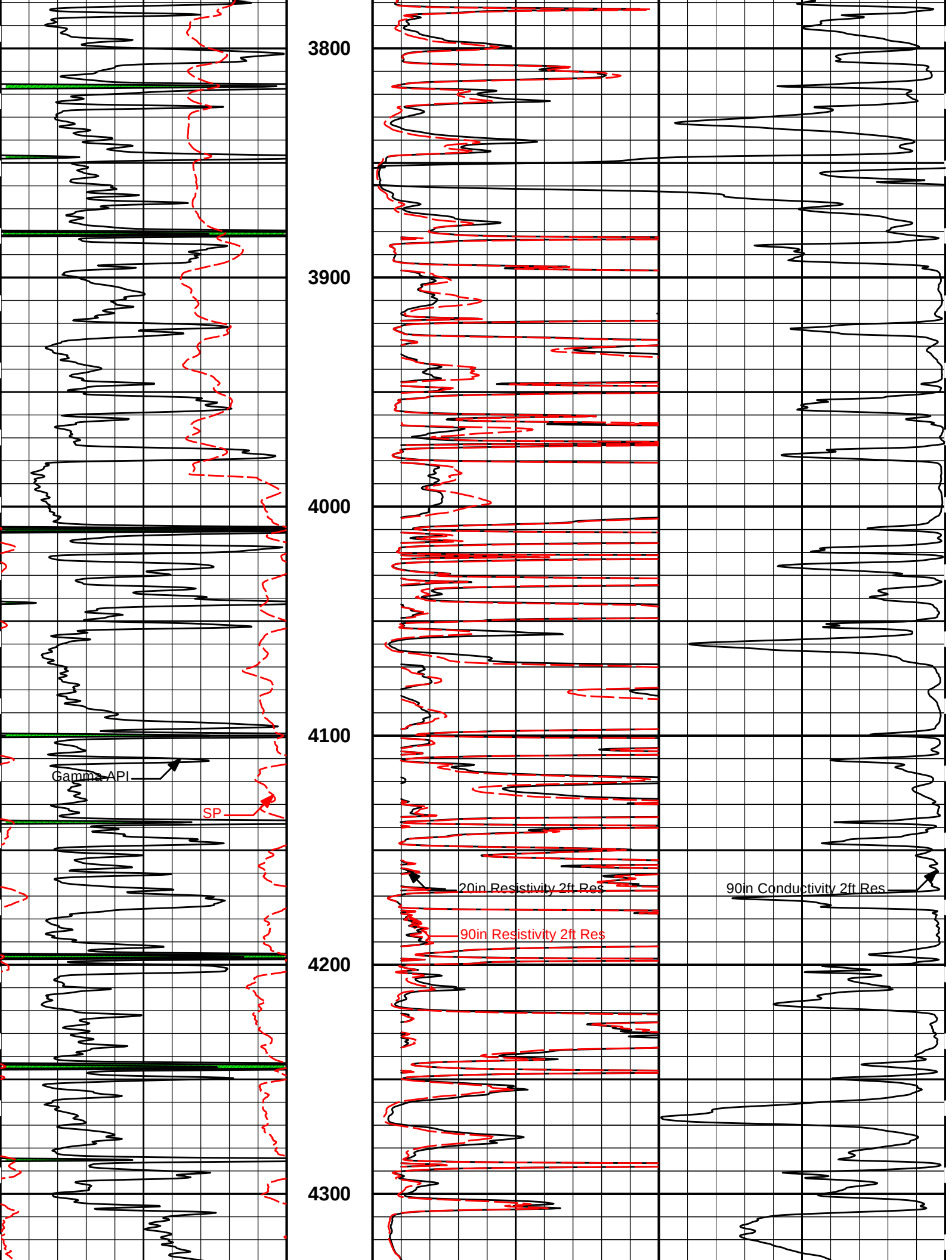


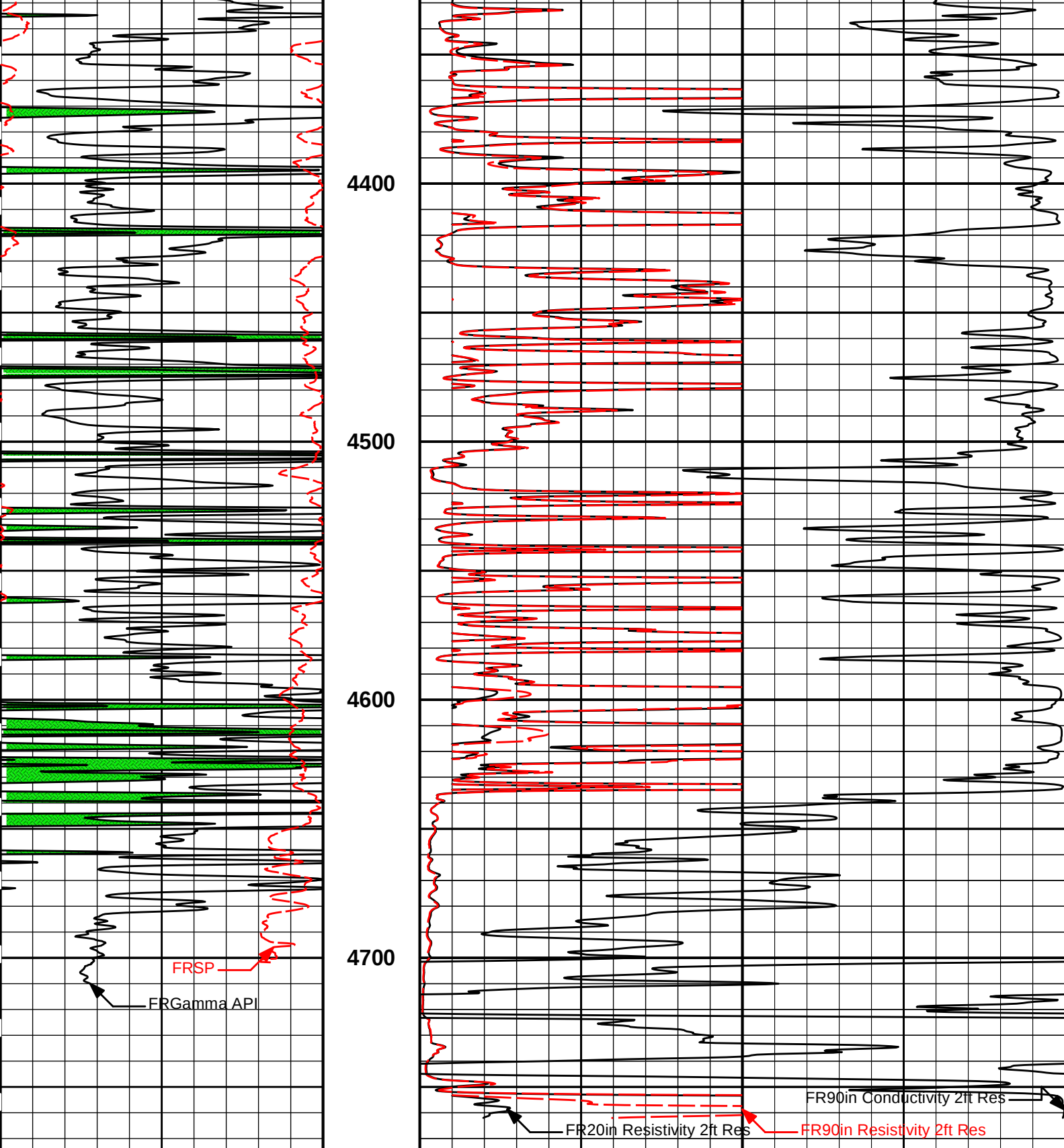












0 Gamma API 150		MD 1 : 600 ft	0 20in Resistivity 2ft Res 50		
api			ohm-metre		
SP		0 90in Resistivity 2ft Res 50			
-]20[+		ohm-metre			
		1000 90in Conductivity 2ft Res 0			
		mmho per metre			

HALLIBURTON

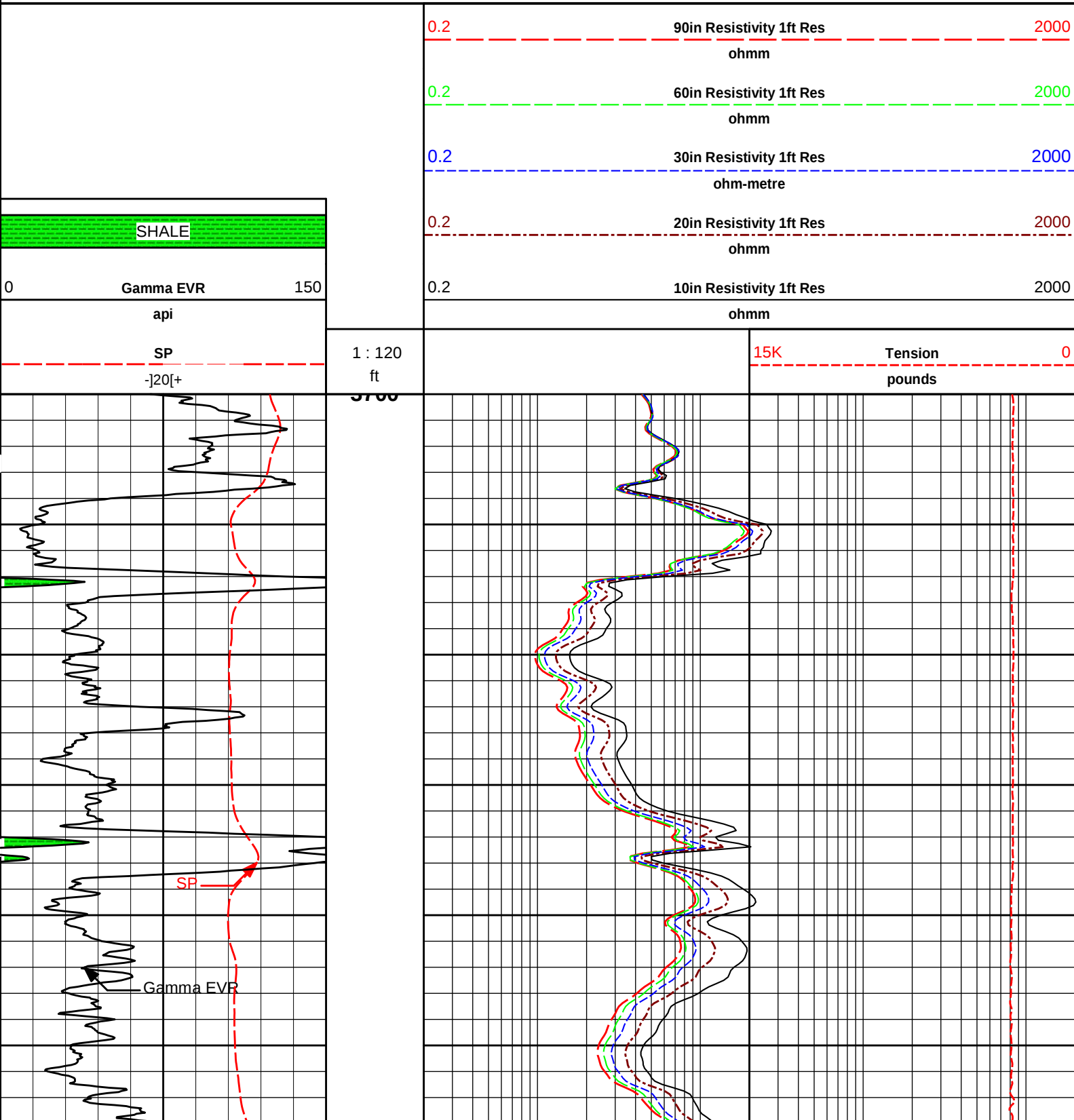
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Plot Range: 330 ft to 4774.5 ft
Data: ROSE_4-1Well Based(CASING)
Plot Title: ROSE_4-1Well Based(CASING) Plot Range: 330 ft to 4774.5 ft

2 INCH MAIN LOG

HALLIBURTON

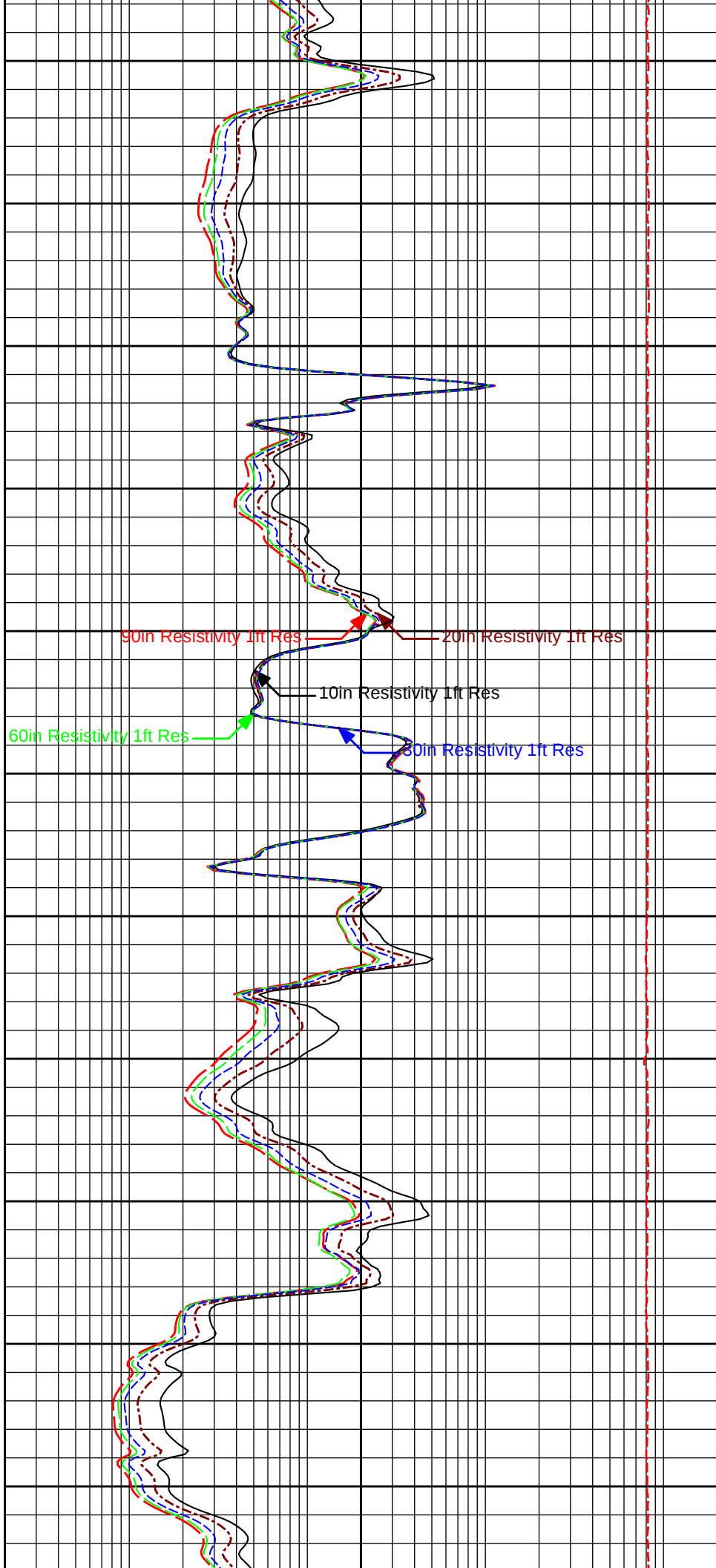
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Plot Range: 3700 ft to 4774.5 ft
Data: ROSE_4-1\Well Based\DETAIL_BOTTOM\
Plot File: \\LOCAL-ROSE_4-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\ACRT\ACRT_10_EVR_LIB

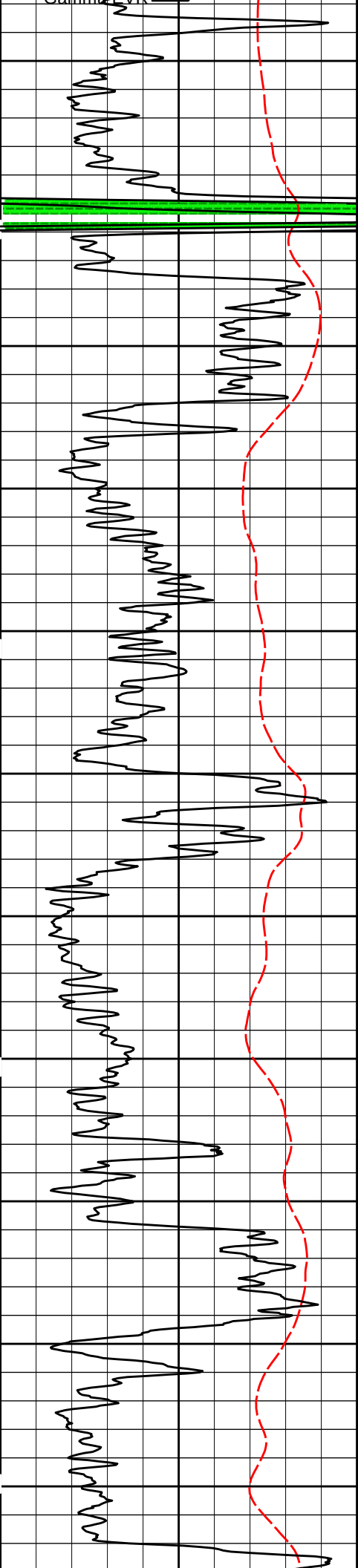
MAIN SECTION HIGH RES 10" PER 100'



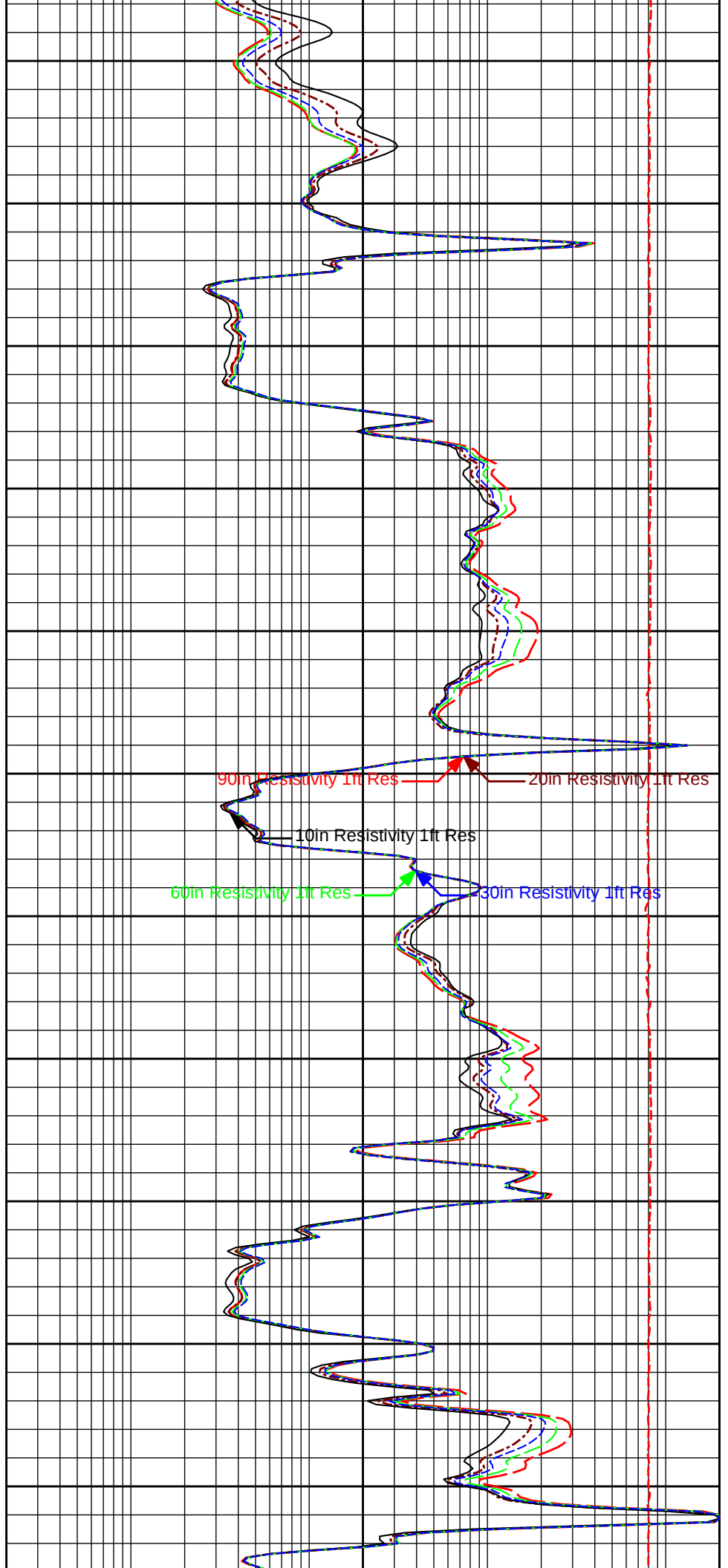


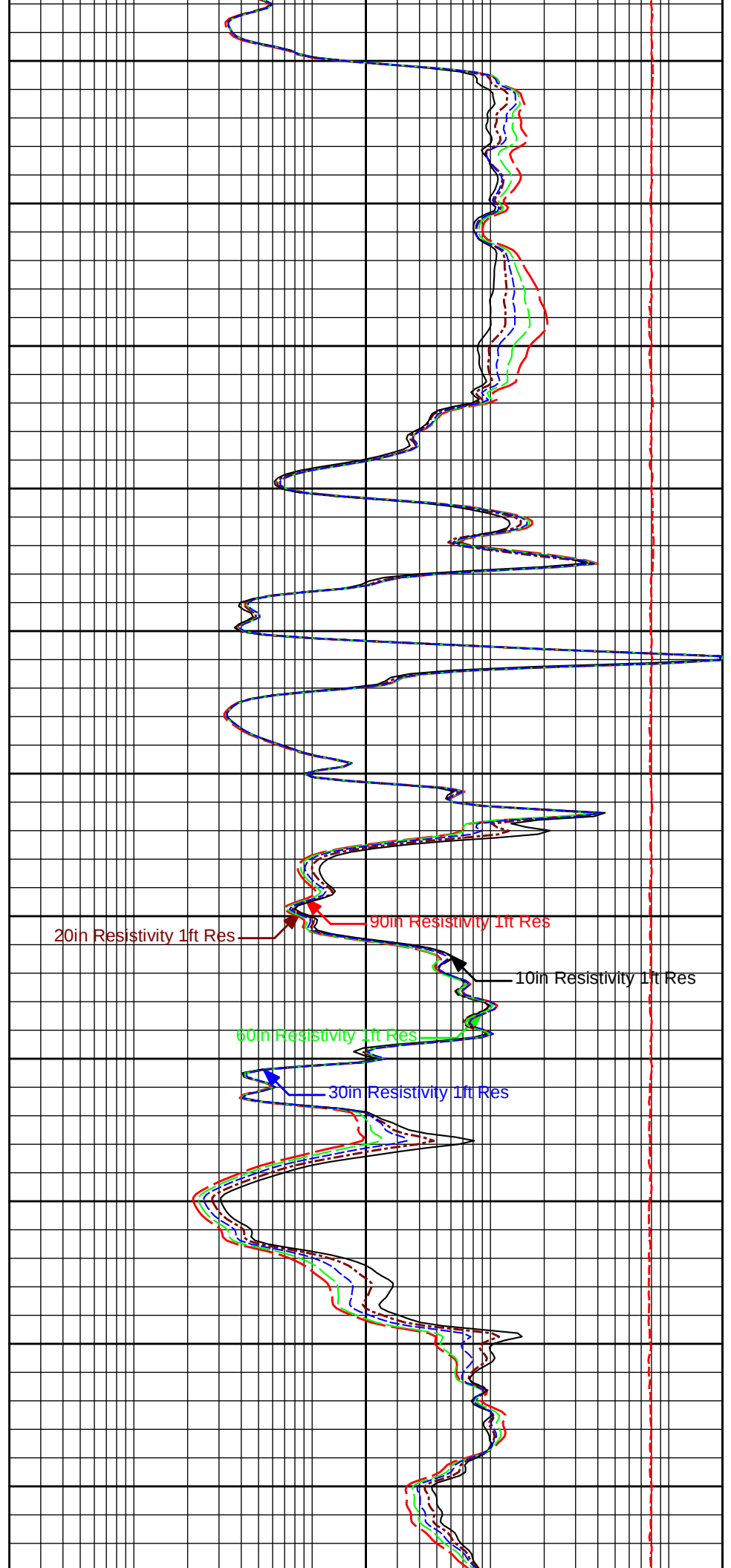
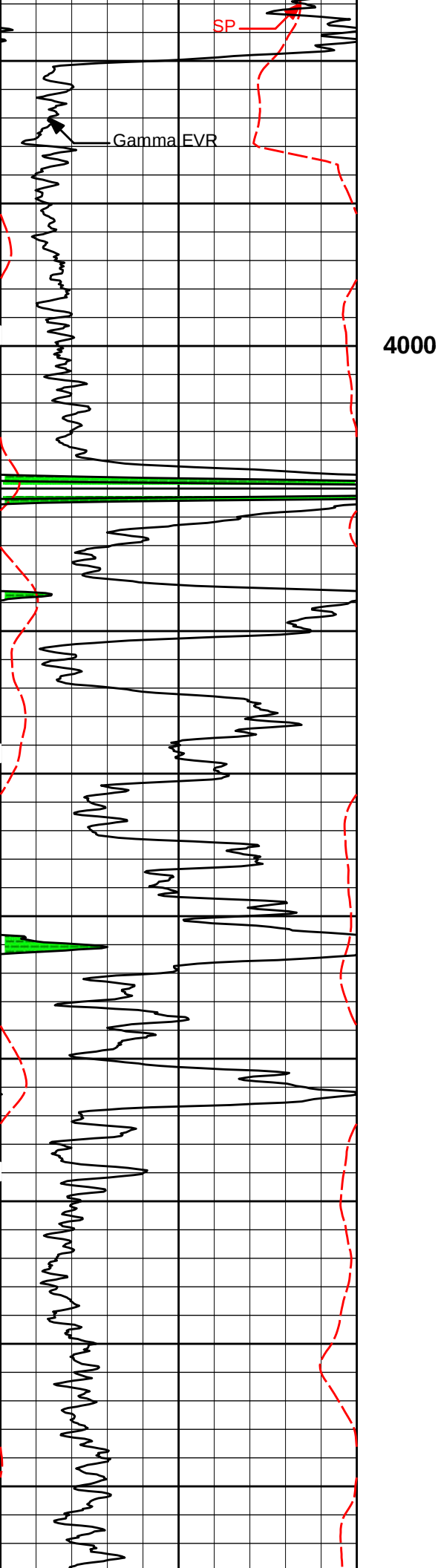
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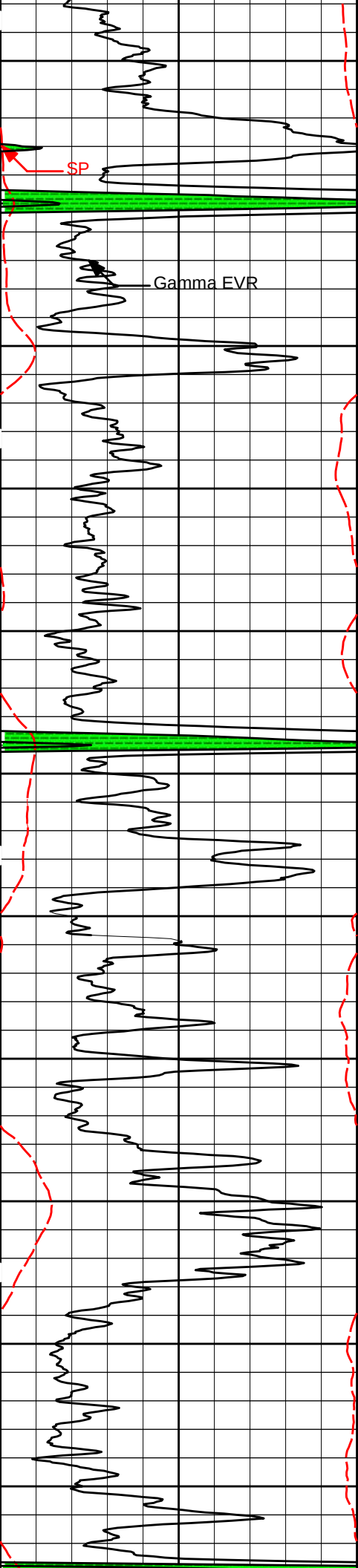




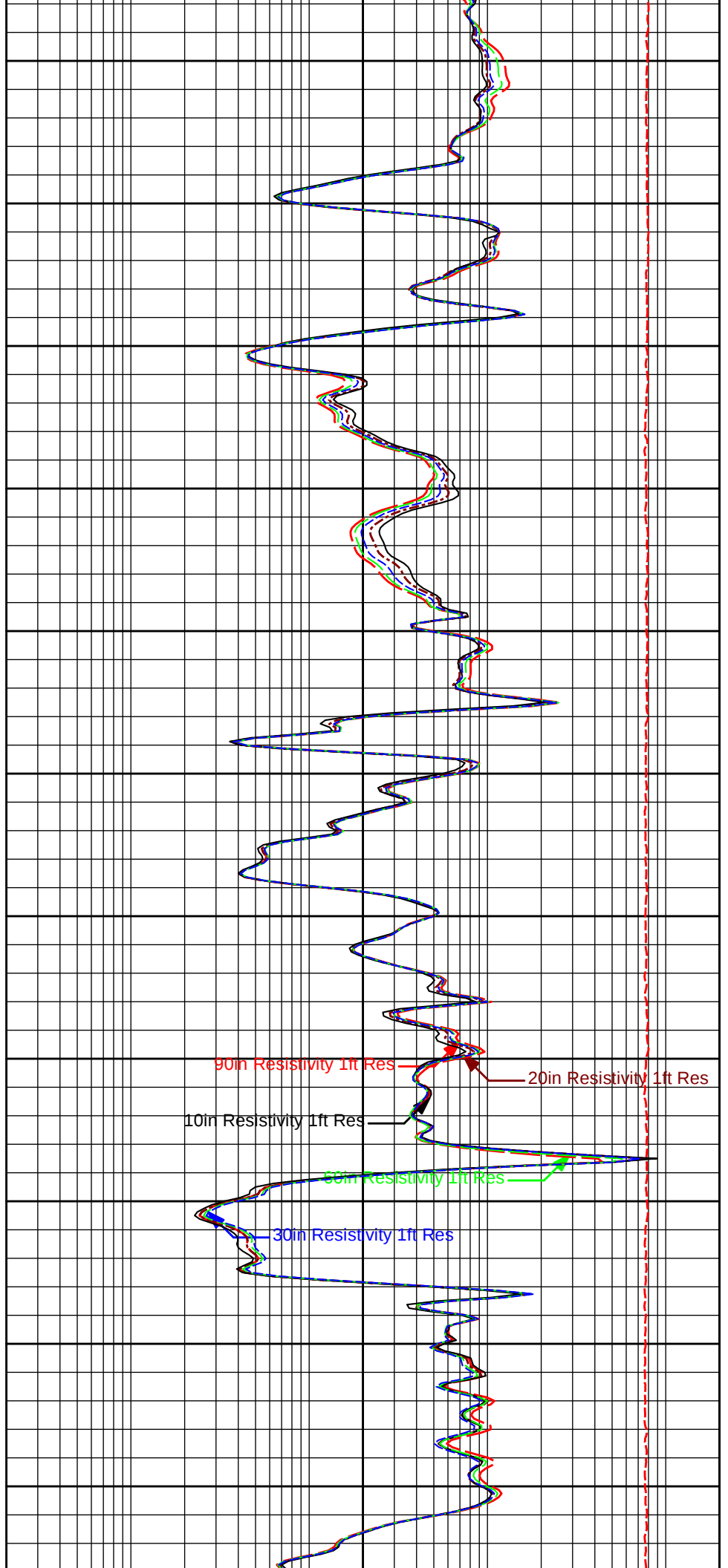
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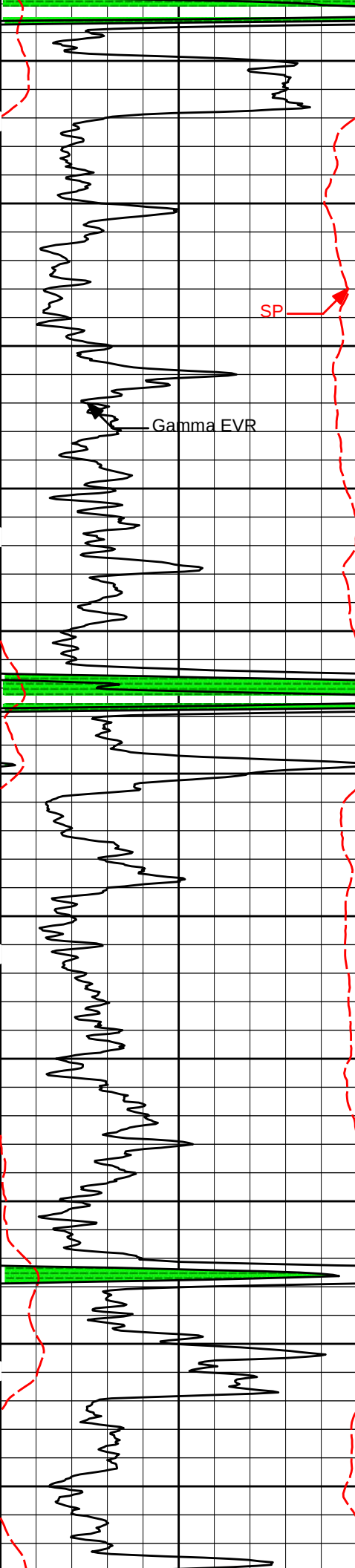




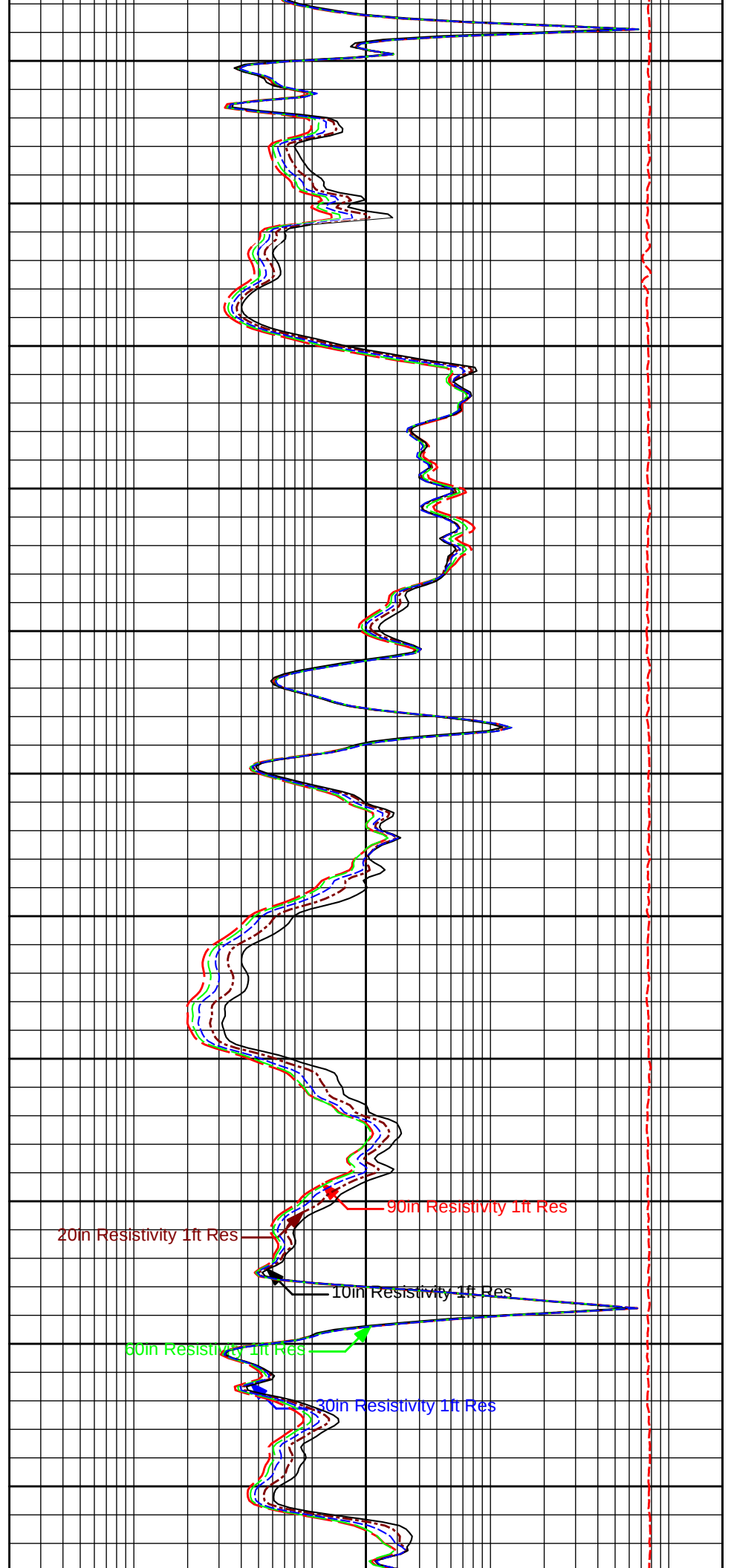


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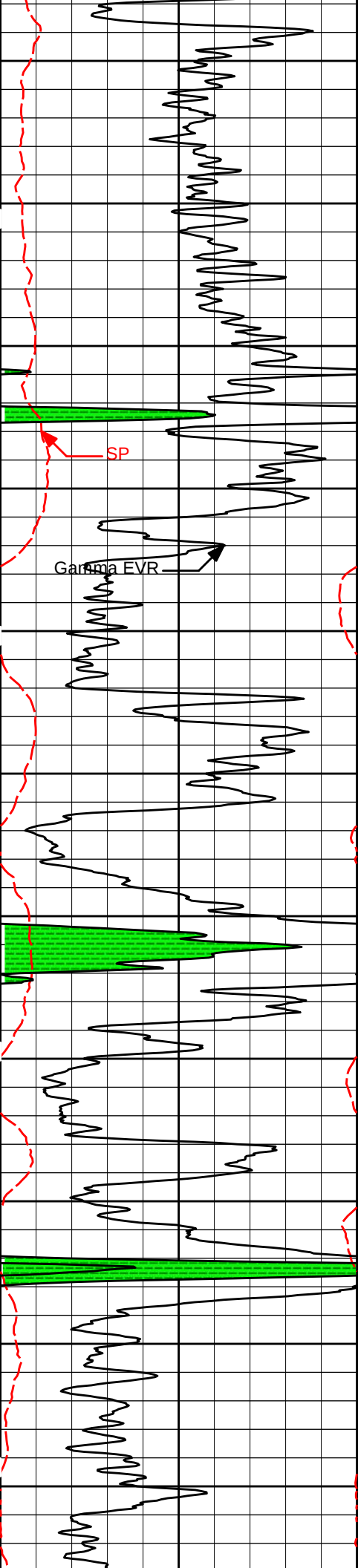




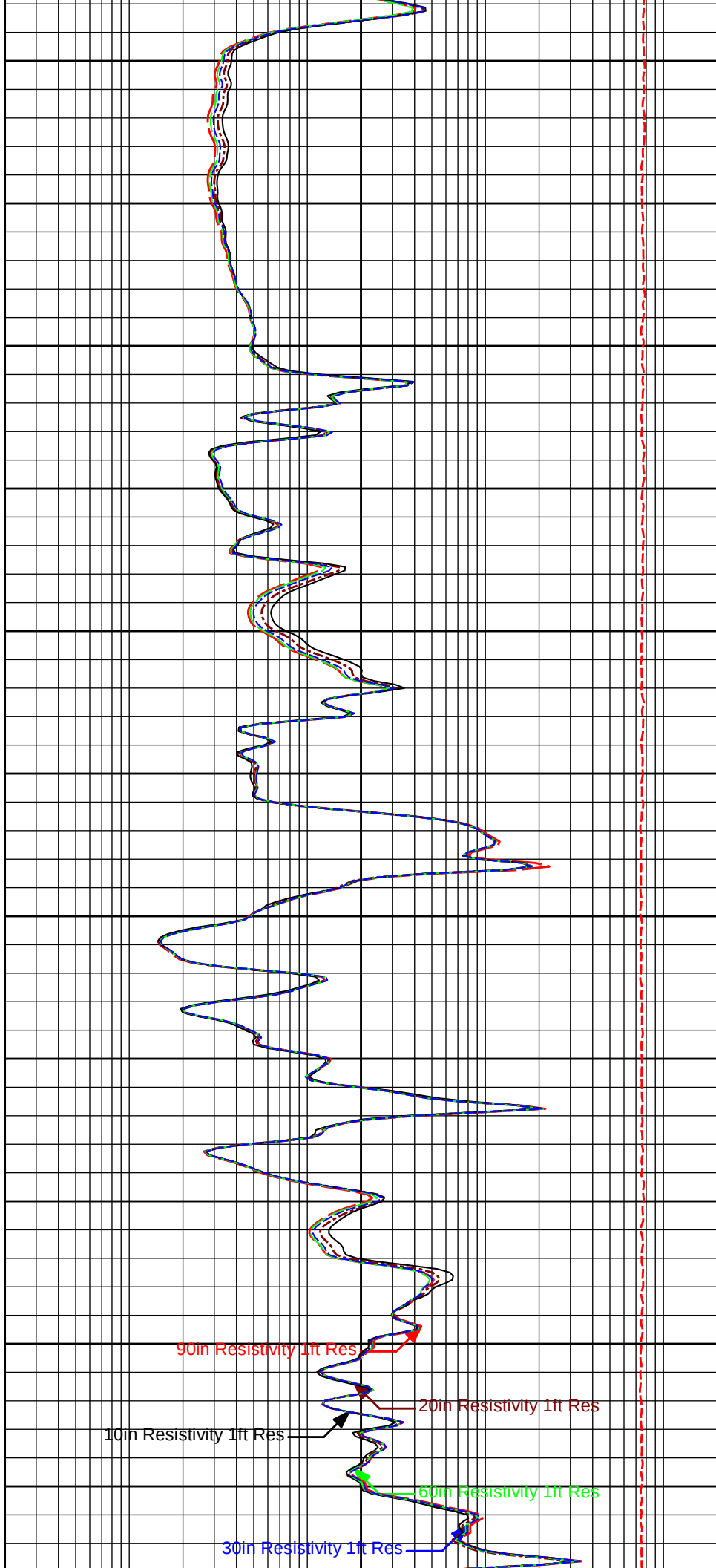
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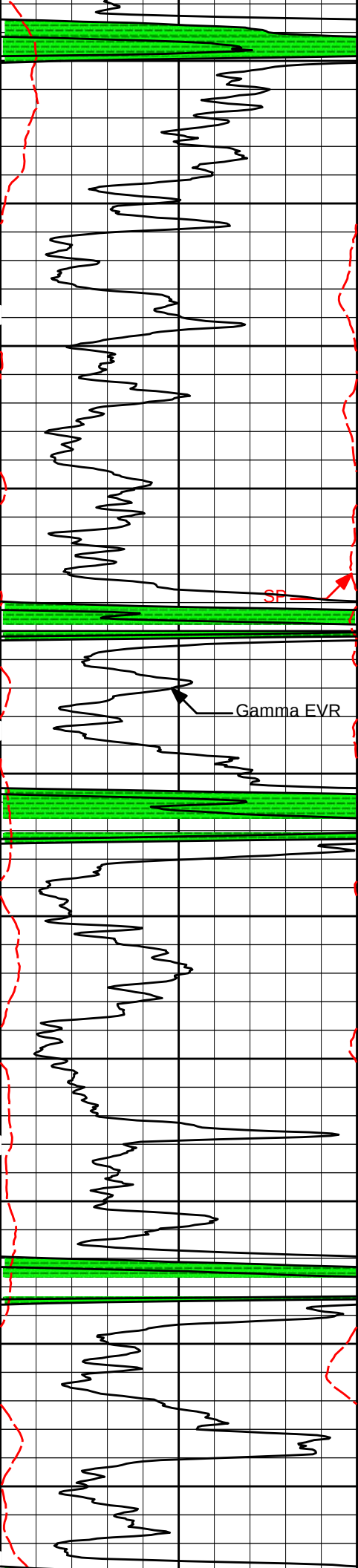


4300

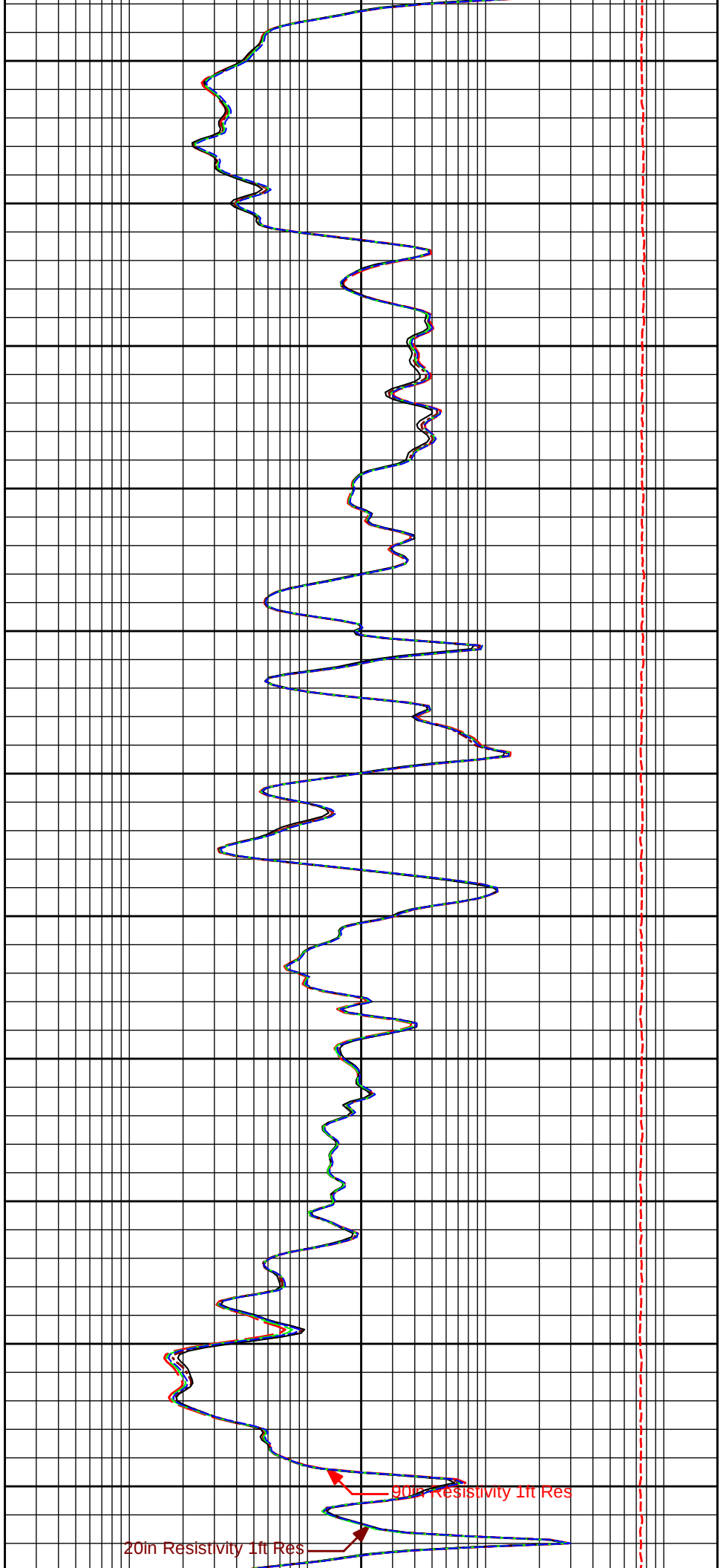


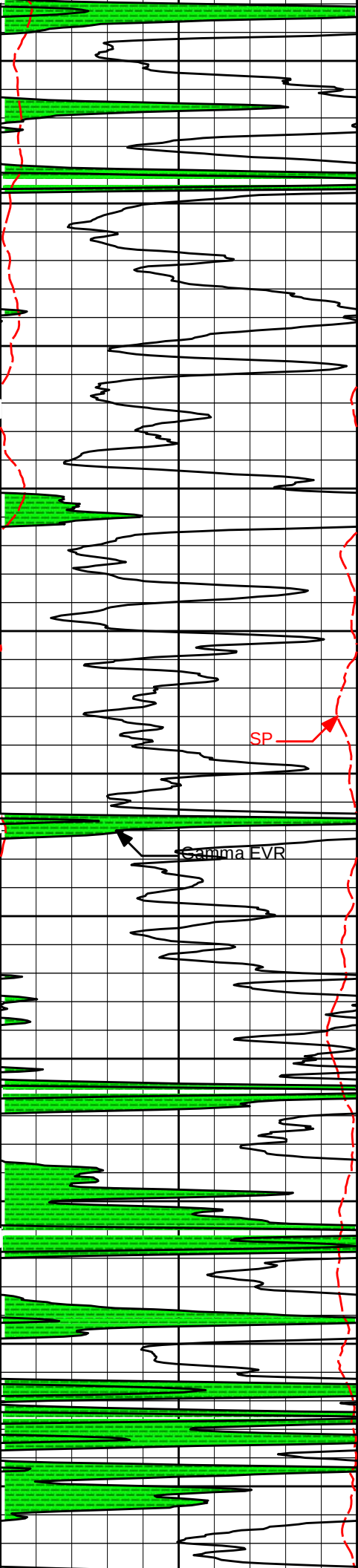
4400



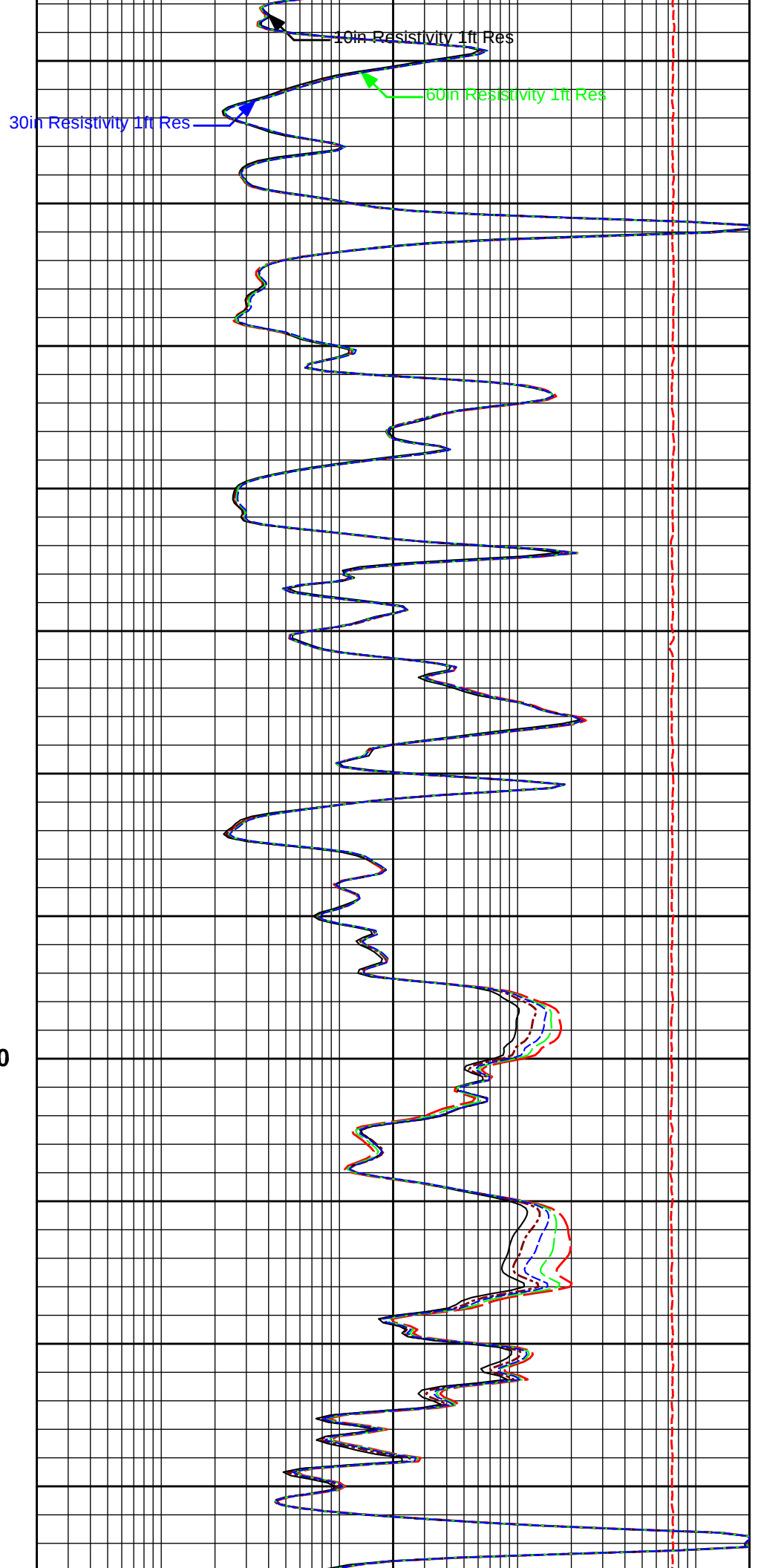


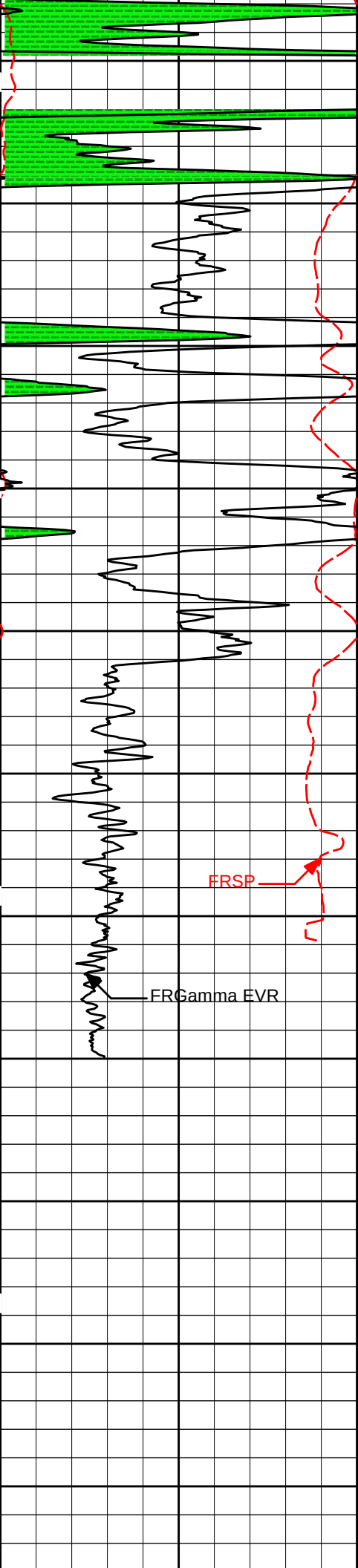
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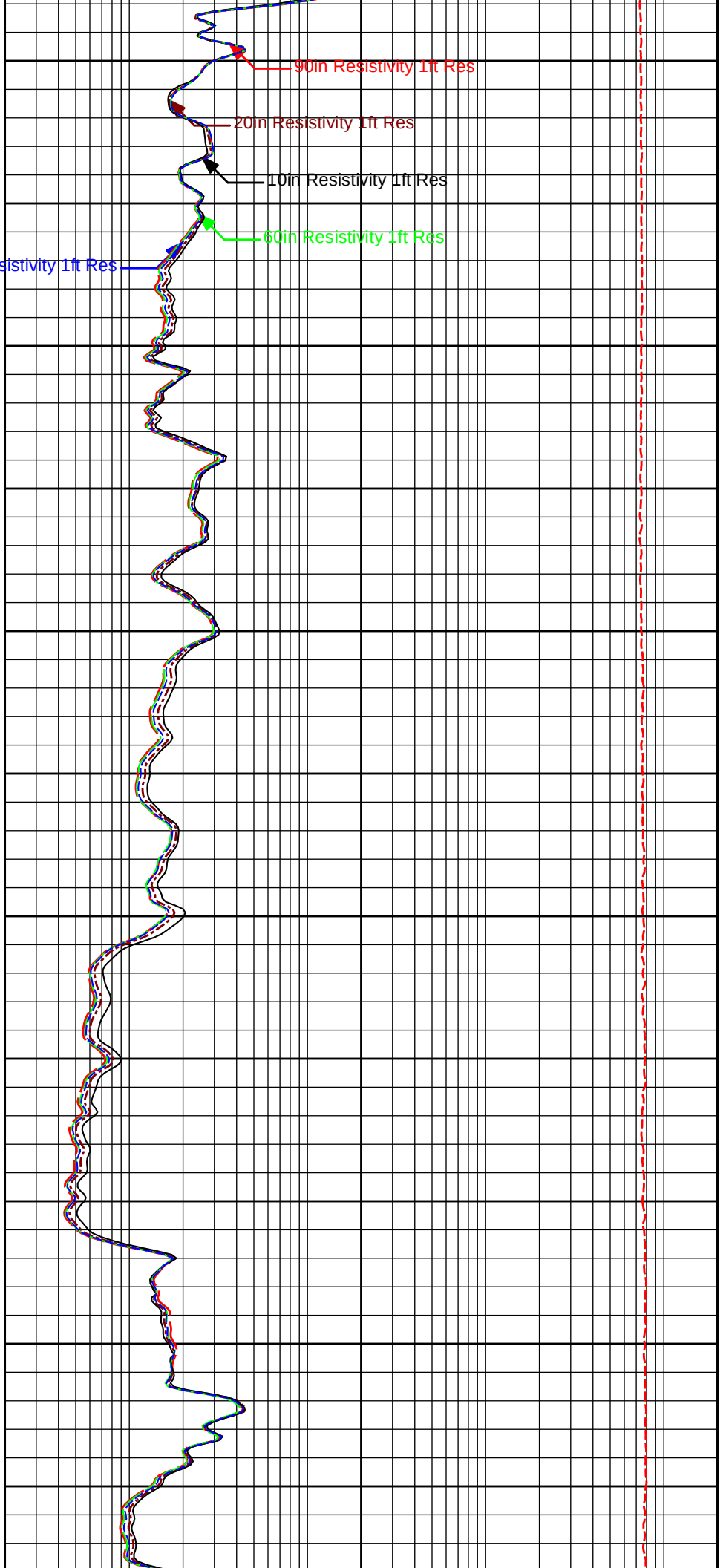


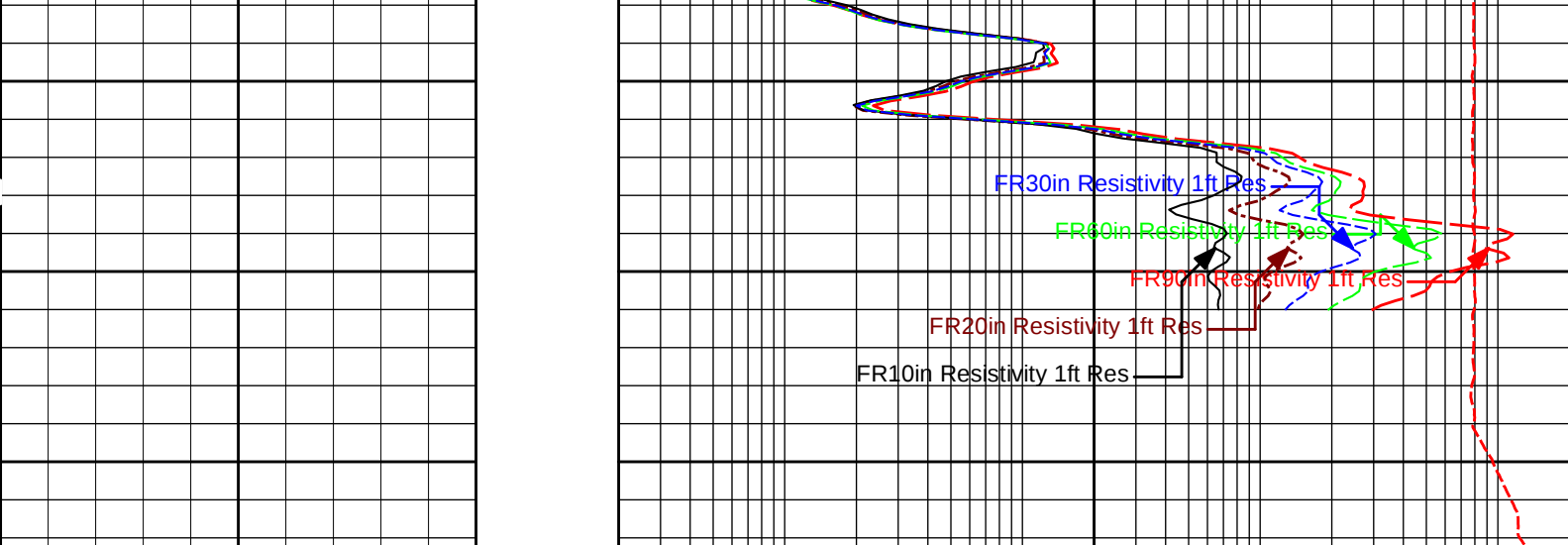
4600





4700





SP -]20[+		1 : 120 ft	15K Tension pounds		0	
0	Gamma EVR api		10in Resistivity 1ft Res ohmm		2000	
SHALE			0.2 20in Resistivity 1ft Res ohmm		2000	
			0.2 30in Resistivity 1ft Res ohm-metre		2000	
			0.2 60in Resistivity 1ft Res ohmm		2000	
			0.2 90in Resistivity 1ft Res ohmm		2000	

HALLIBURTON

Plot Time: 18-Aug-14 10:46:42
Plot Range: 3700 ft to 4774.5 ft
Data: ROSE_4-1\Well Based\DETAIL_BOTTOM\
Plot File: \\LOCAL-ROSE_4-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\ACRT\ACRT_10_EVR_LIB

MAIN SECTION HIGH RES 10" PER 100'

HALLIBURTON

Plot Time: 18-Aug-14 10:46:42
Plot Range: 2350 ft to 2450 ft
Data: ROSE_4-1\Well Based\DETAIL_TOP\
Plot File: \\LOCAL-ROSE_4-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\ACRT\ACRT_5_main_lib

5 INCH MAIN LOG

MEASURED DEPTH
MAIN SECTION 5" PER 100'

0.2 90in Resistivity 2ft Res ohmm		2000
0.2 60in Resistivity 2ft Res		2000

5 INCH MAIN LOG

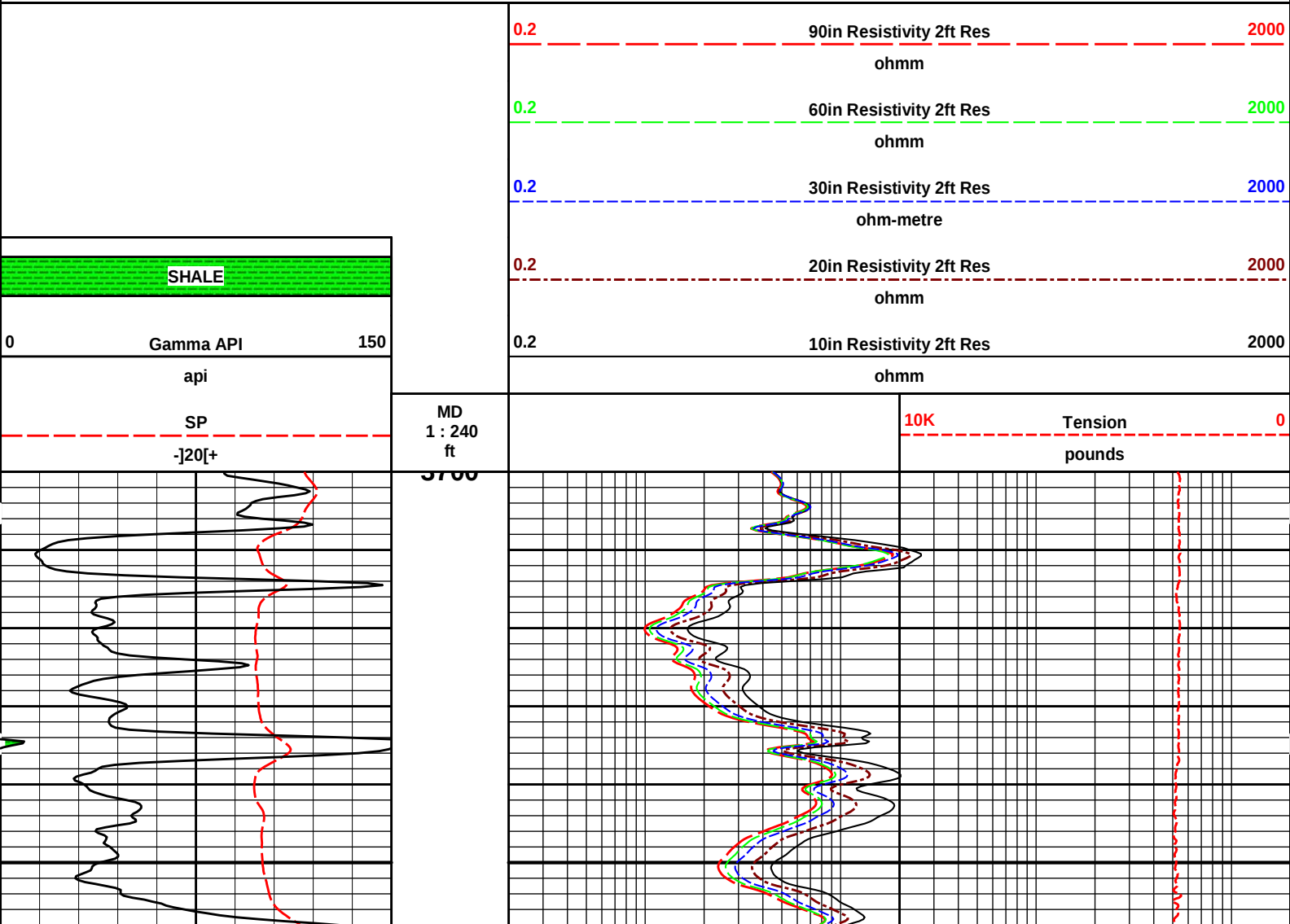
MEASURED DEPTH
MAIN SECTION 5" PER 100'

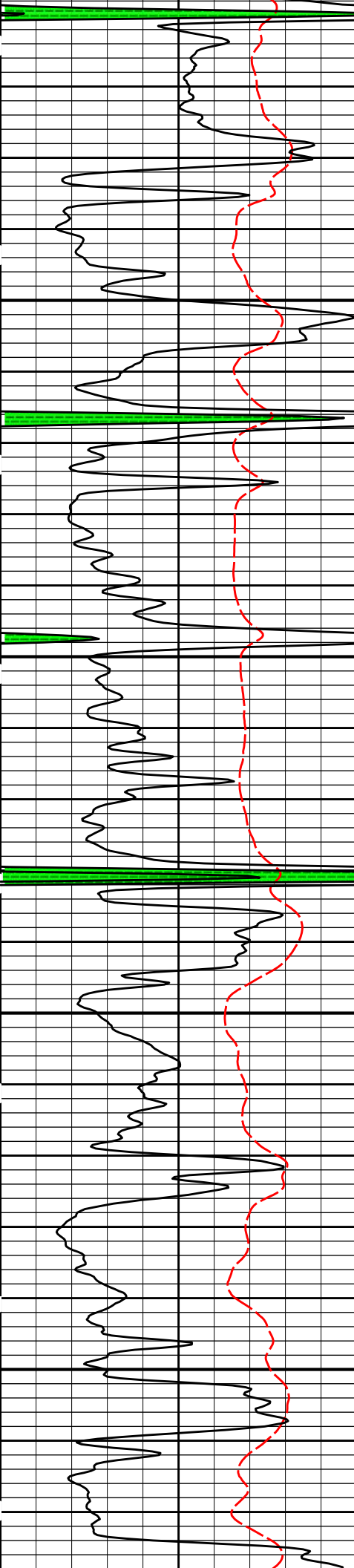
HALLIBURTON

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Data: ROSE_4-1Well Based\DETAIL_BOTTOM\
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5 INCH MAIN LOG

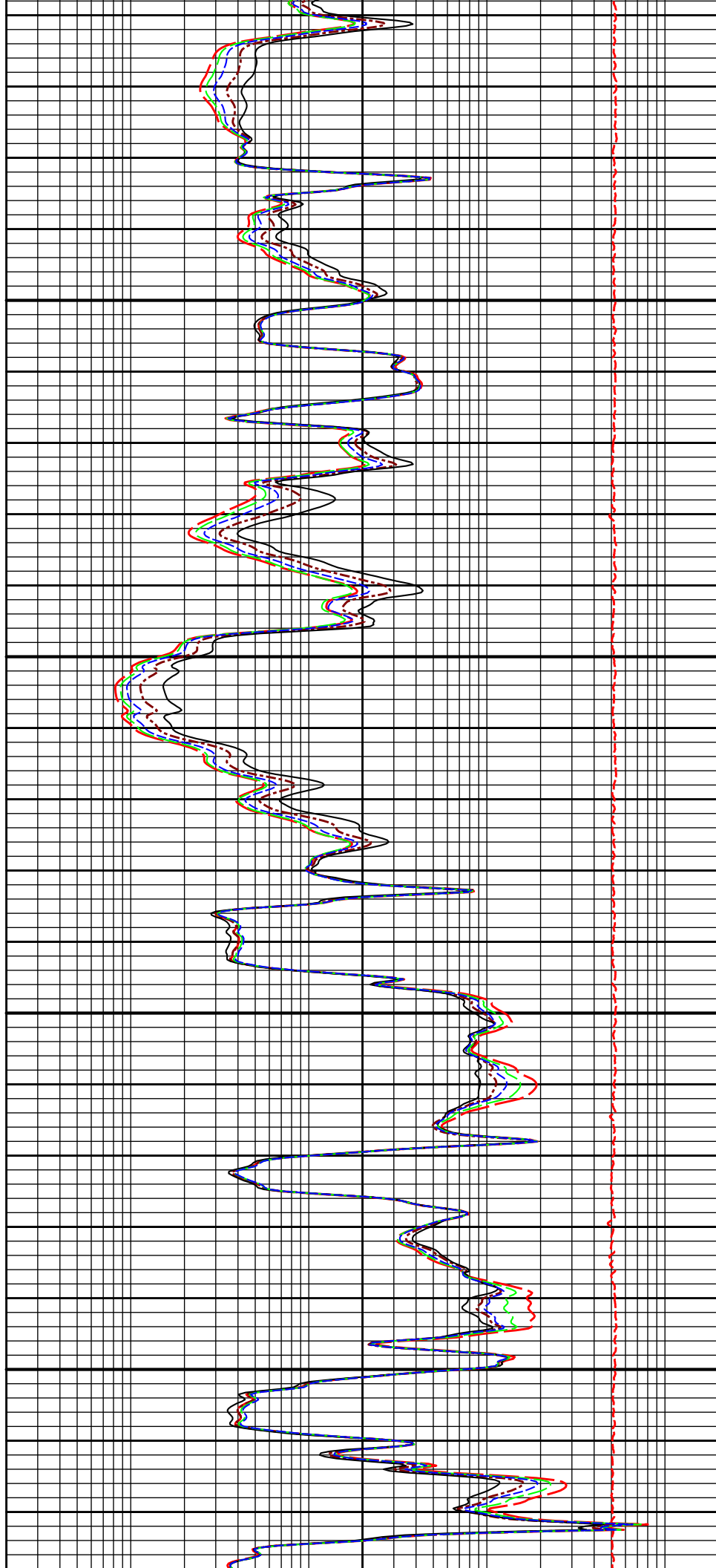
MEASURED DEPTH
MAIN SECTION 5" PER 100'

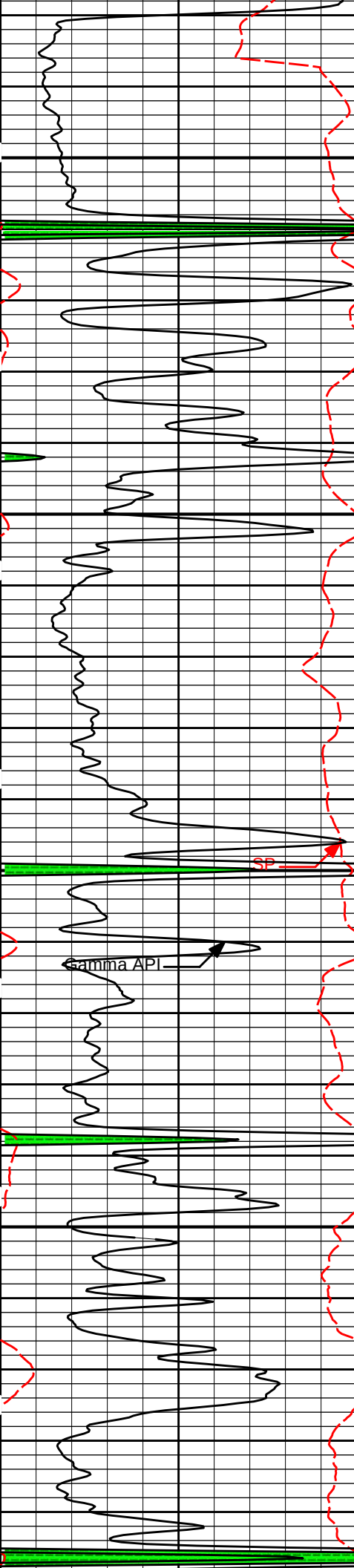




3800

3900





4000

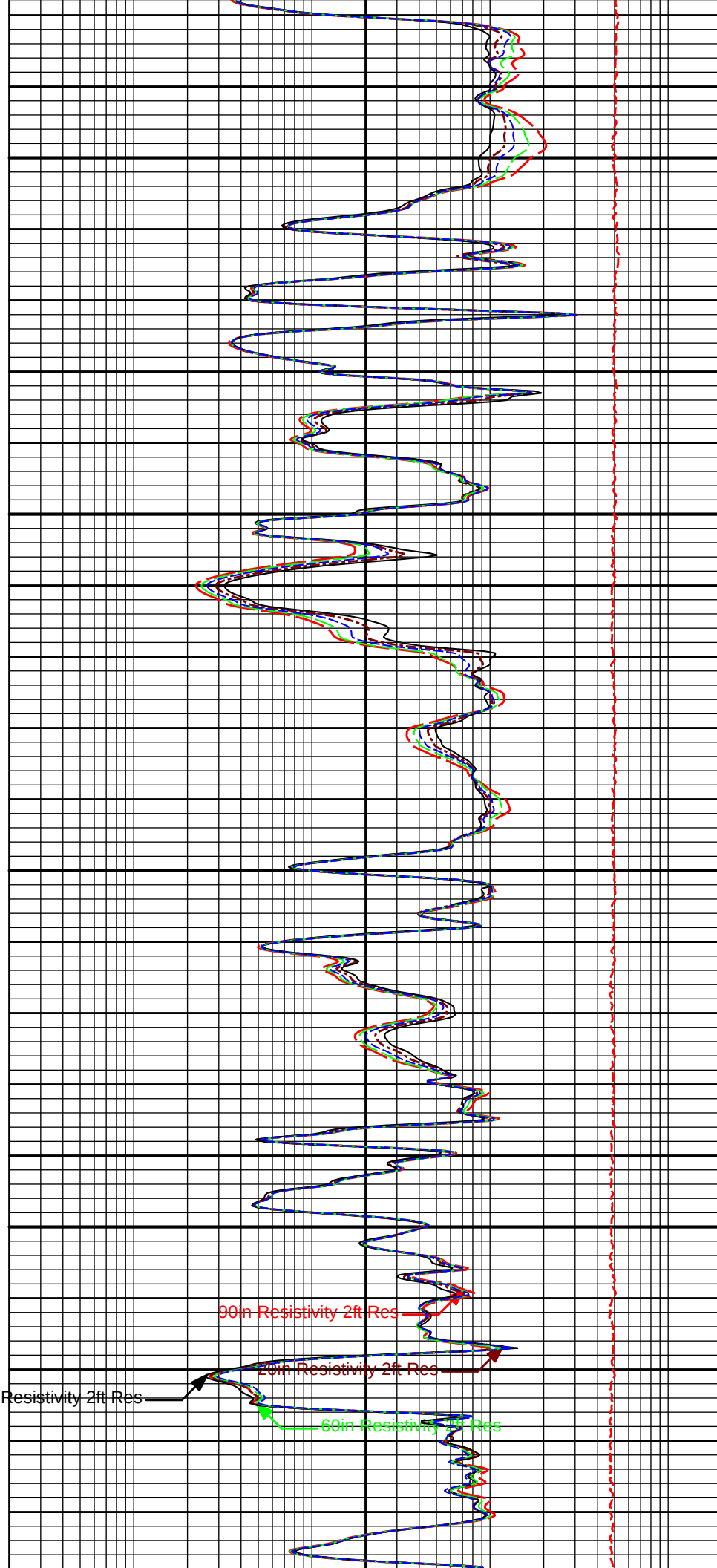
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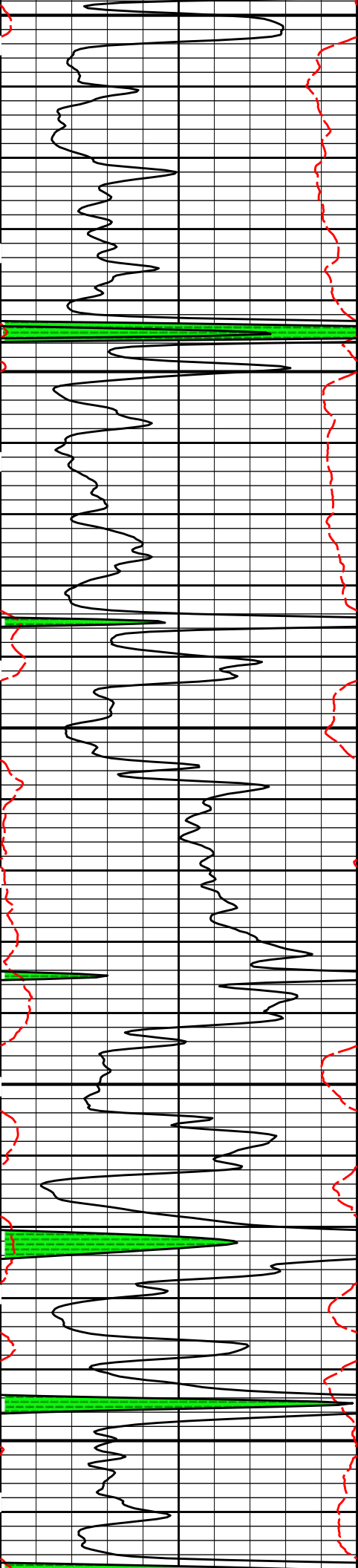
10in Resistivity 2ft Res

20in Resistivity 2ft Res

90in Resistivity 2ft Res

60in Resistivity 2ft Res

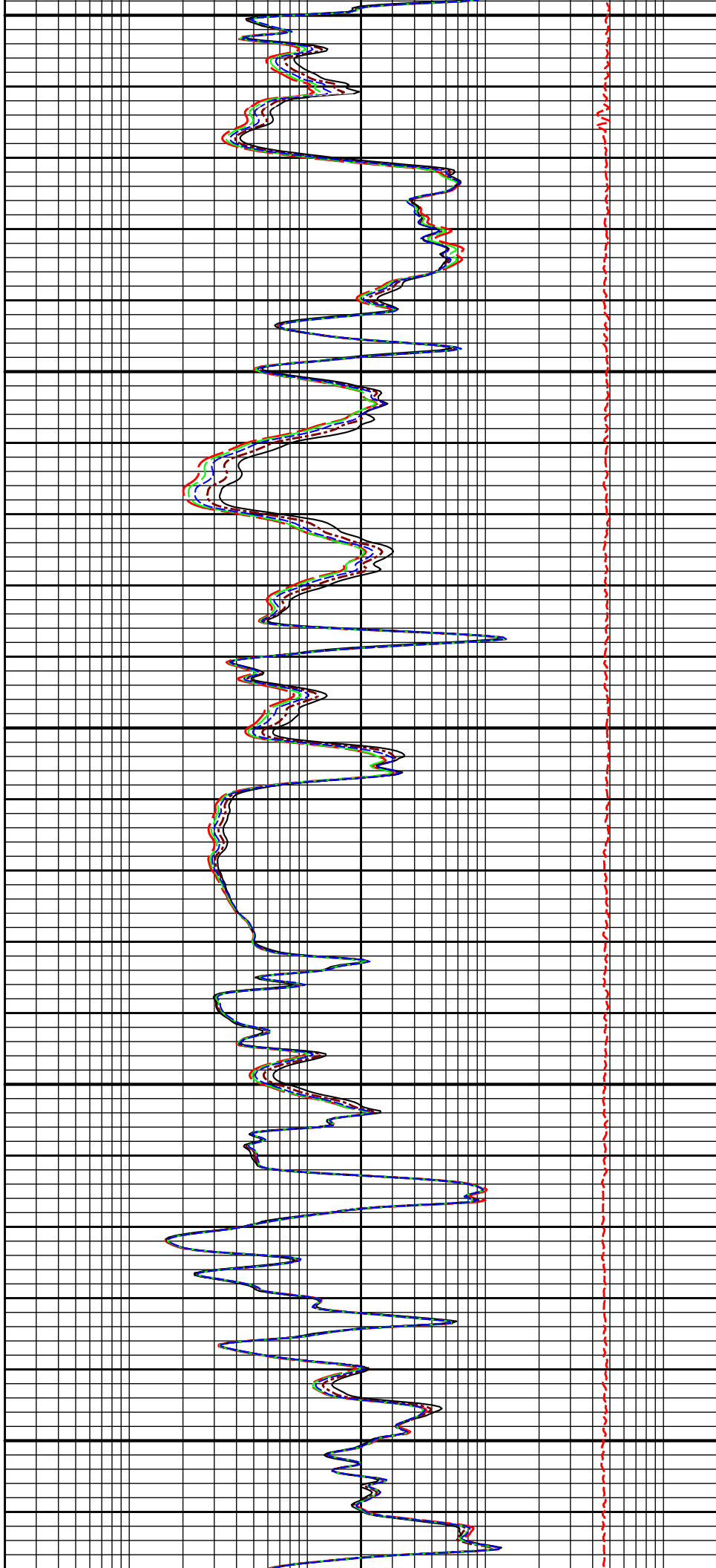


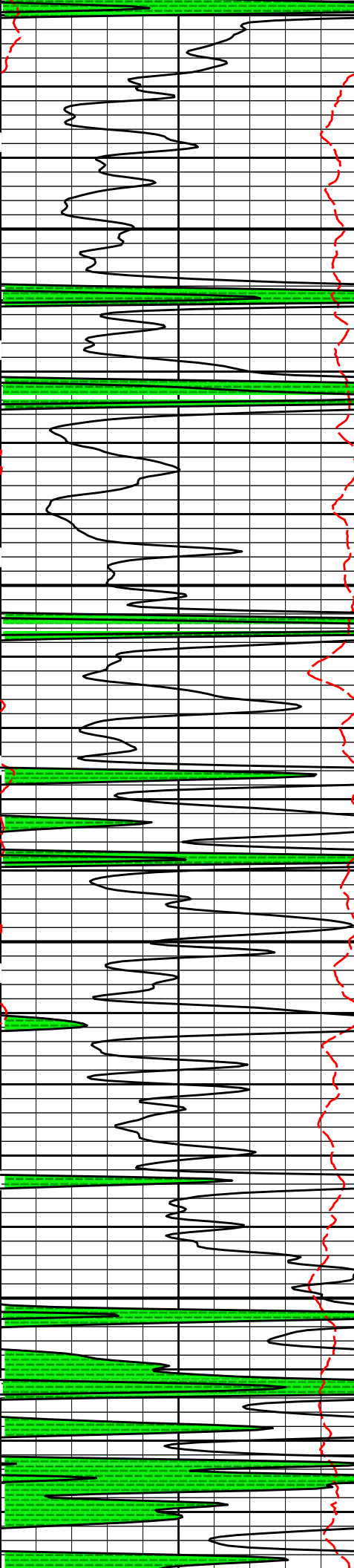


4200

4300

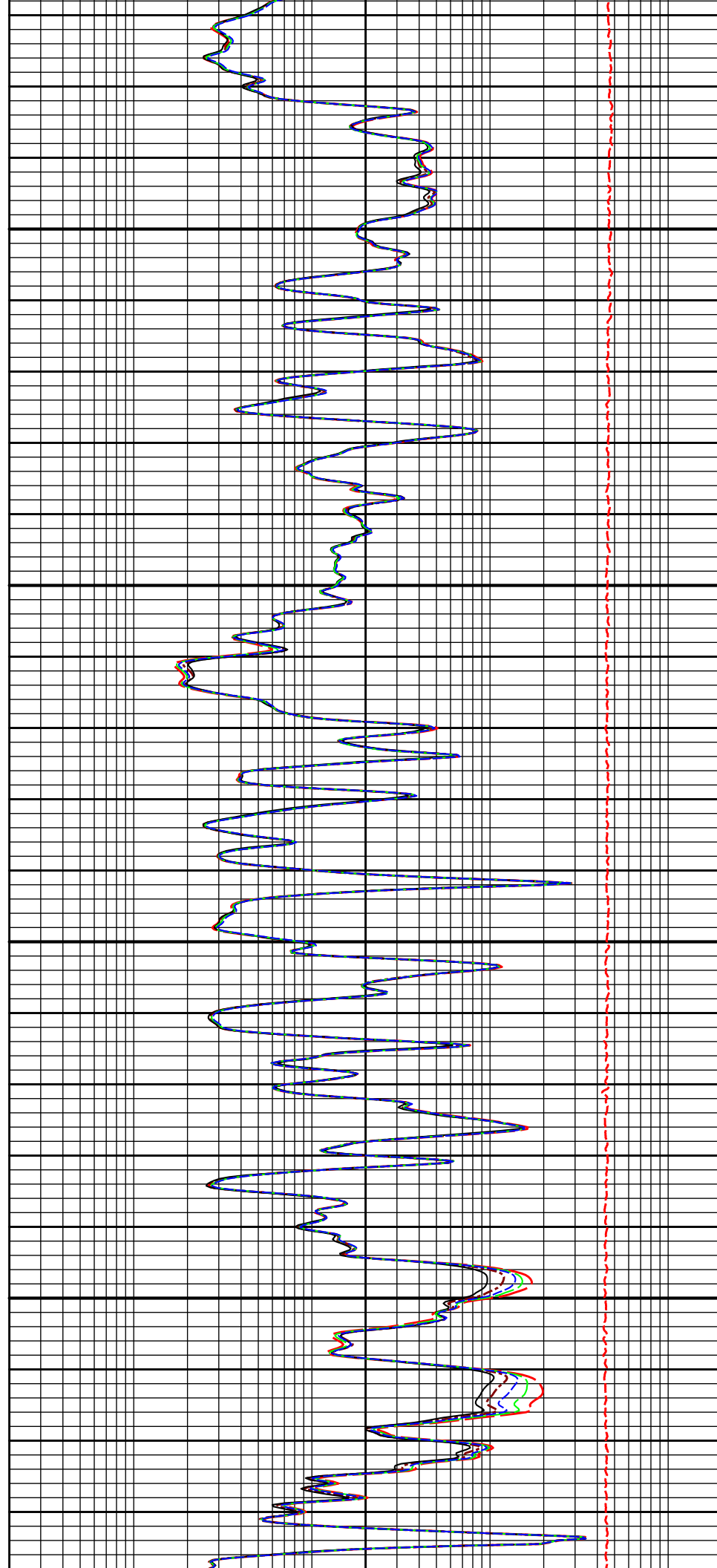
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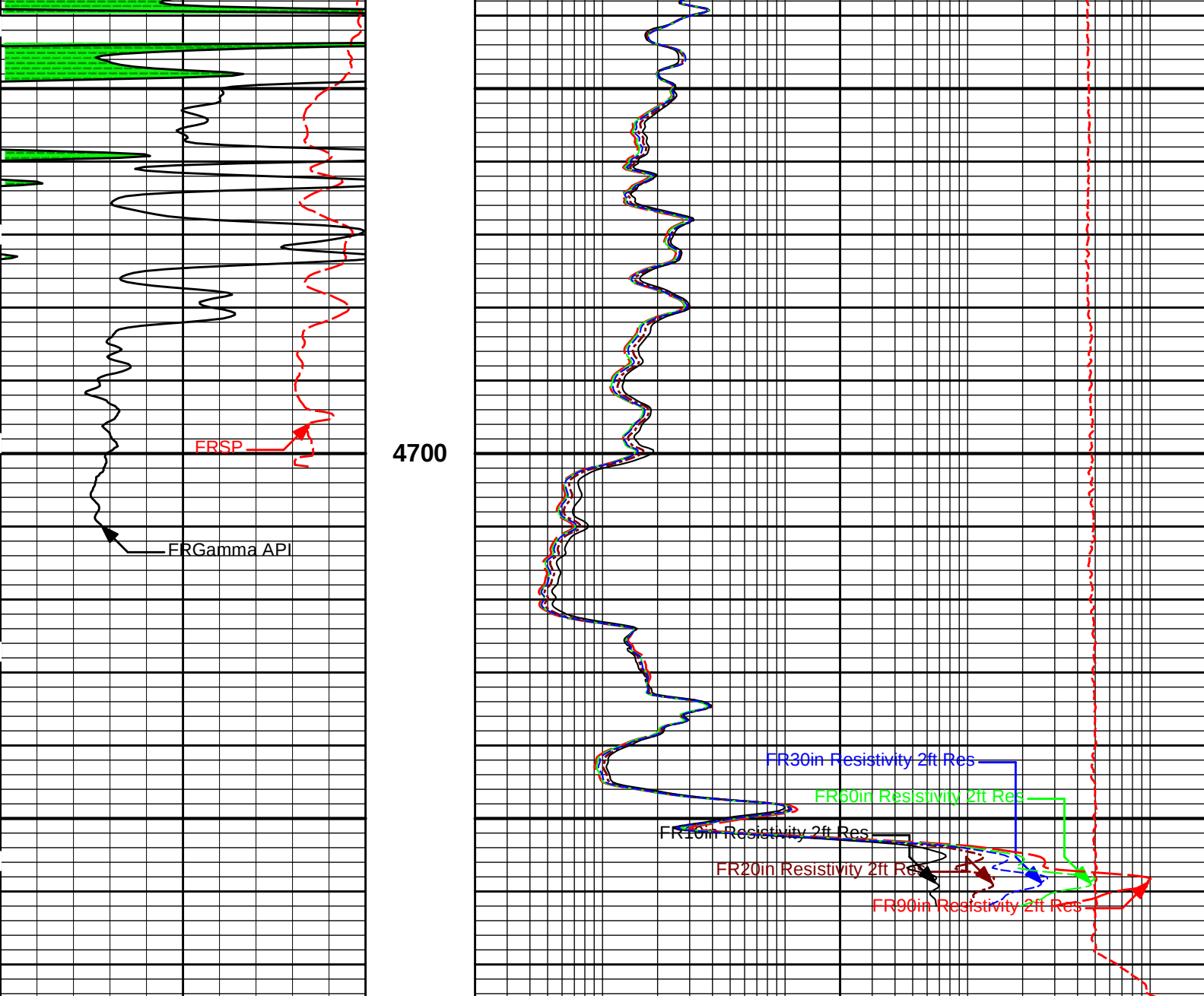




4500

4600





SP -]20[+	MD 1 : 240 ft	10K	Tension pounds	0
0	Gamma API	150		
api				
SHALE				
0.2	10in Resistivity 2ft Res	2000		
	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	2000		
	ohmm			

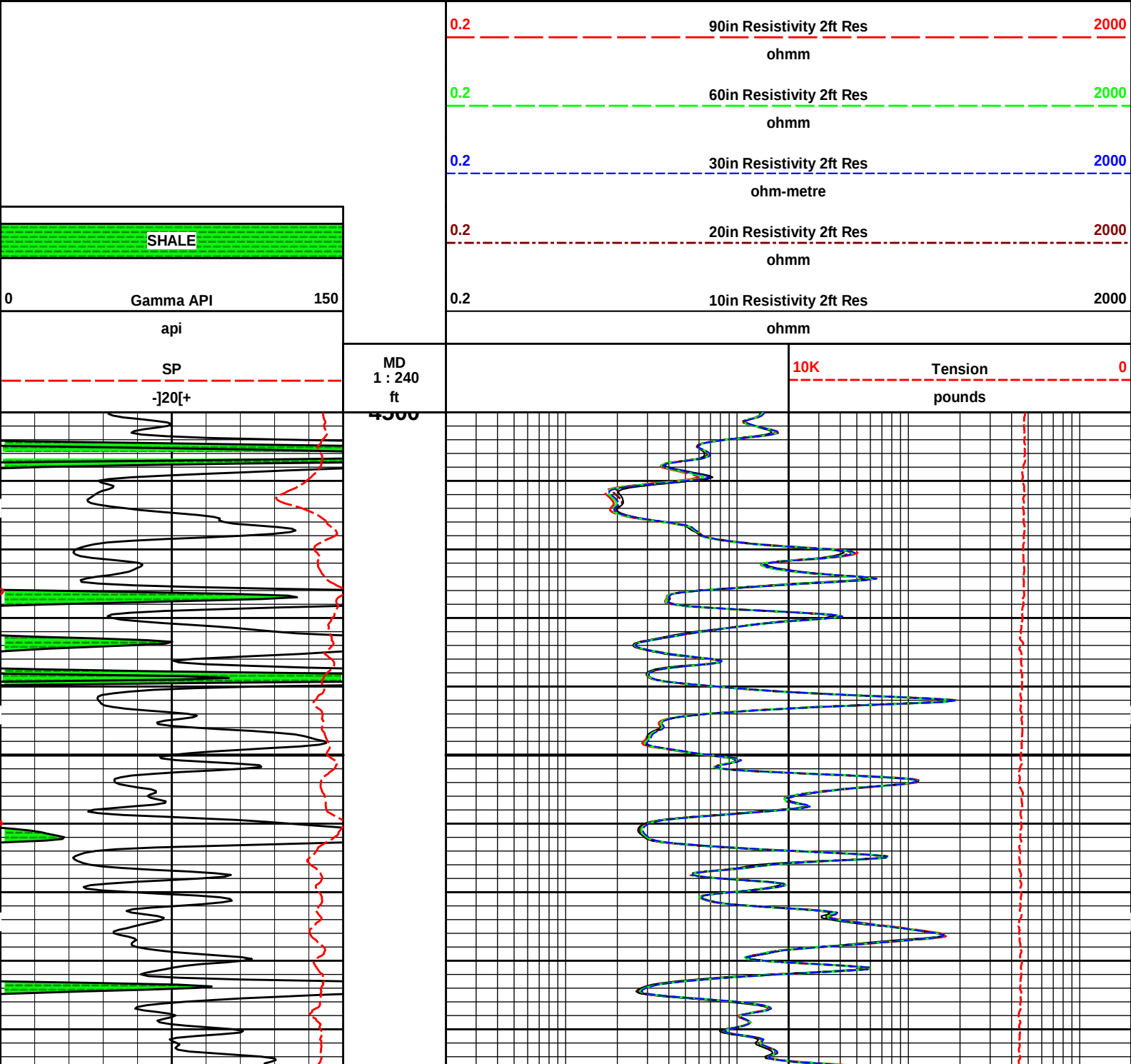
5 INCH MAIN LOG

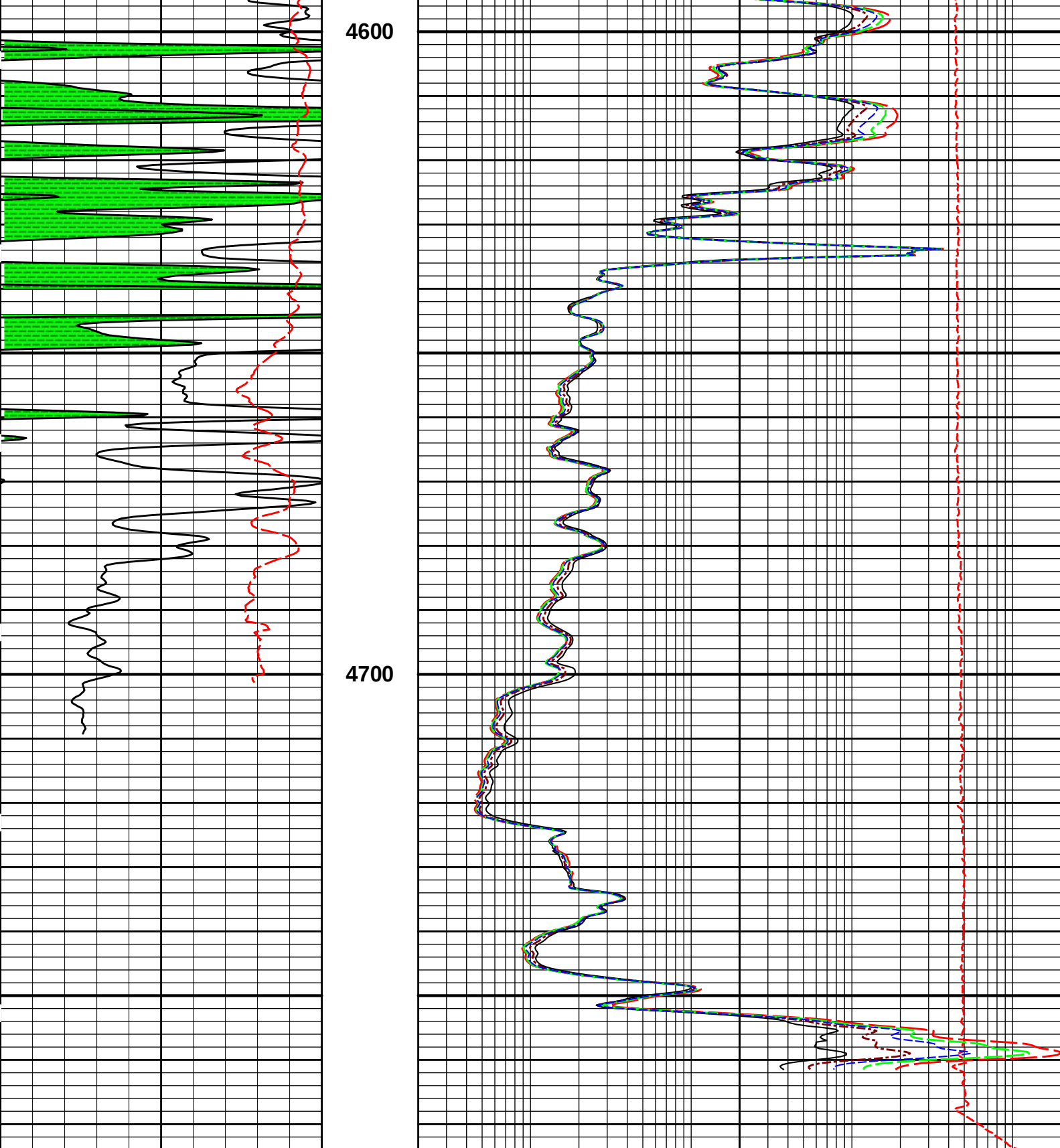
MEASURED DEPTH
MAIN SECTION 5" PER 100'

HALLIBURTON

Plot Time: 18-Aug-14 10:46:46
Plot Range: 4500 ft to 4774 ft
Data: ROSE_4-1\Well Based\REPEAT\
Plot File: \\LOCAL-I\ROSE_4-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\ACRT\ACRT_5_repeat.lib

REPEAT SECTION





SP -]20[+ 0 150 Gamma API api SHALE	MD 1 : 240 ft		10K Tension pounds 0
		0.2	10in Resistivity 2ft Res ohmm 0.2 20in Resistivity 2ft Res ohmm
		0.2	30in Resistivity 2ft Res ohm-metre 2000

	0.2	60in Resistivity 2ft Res	2000
		ohmm	
	0.2	90in Resistivity 2ft Res	2000
		ohmm	

HALLIBURTON

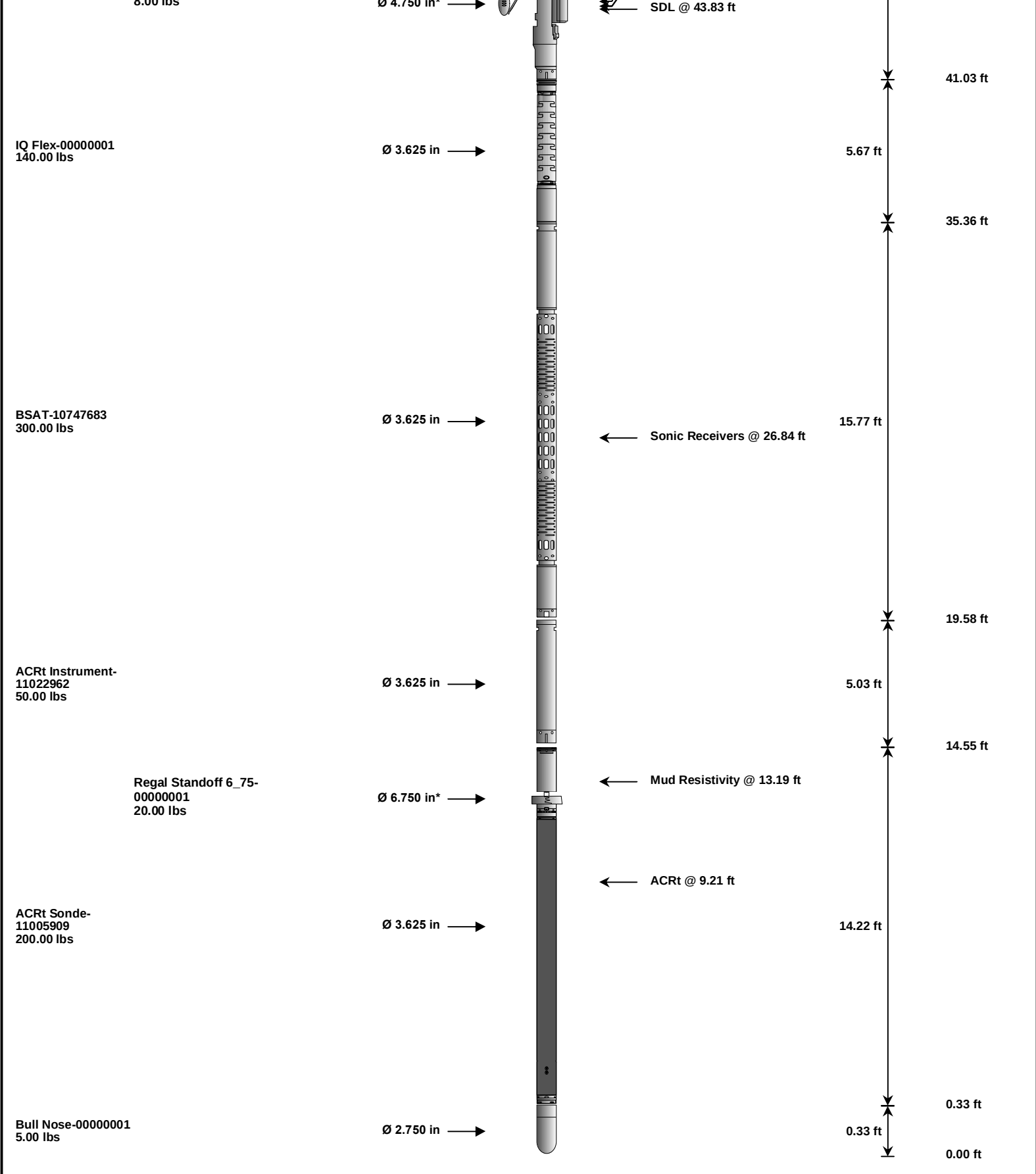
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REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
					80.04 ft	
RWCH-12156658 135.00 lbs		Ø 3.625 in →		← Load Cell @ 76.35 ft ← BH Temperature @ 75.79 ft	6.25 ft	
						73.79 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in →		← SP @ 72.01 ft	3.74 ft	
						70.05 ft
GTET-11048627 165.00 lbs		Ø 3.625 in →		← GammaRay @ 63.99 ft	8.52 ft	
						61.53 ft
DSNT-11055304 174.00 lbs		Ø 3.625 in →		← DSN Far @ 54.59 ft ← DSN Near @ 53.84 ft	9.69 ft	
						51.84 ft
SDLT-11014296 360.00 lbs	SDLT Pad-10865884 65.00 lbs Microlog Pad-11014296 8.00 lbs	Ø 4.500 in → Ø 4.750 in* →		Microlog @ 44.03 ft SDL Caliper @ 43.84 ft	10.81 ft	



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	12156658	135.00	6.25	73.79	300.00
SP	SP Sub	12345678	60.00	3.74	70.05	300.00
GTET	Gamma Telemetry Tool	11048627	165.00	8.52	61.53	60.00
DSNT	Dual Spaced Neutron	11055304	174.00	9.69	51.84	60.00
SDLT	Spectral Density Tool	11014296	360.00	10.81	41.03	60.00
SDLP	Density Insite Pad	10865884	65.00	2.55 *	43.24	60.00
MICP	Microlog Pad	11014296	8.00	1.00 *	43.53	60.00
IQF	IQ Flex tool	00000001	140.00	5.67	35.36	300.00

BSAT	Borehole Sonic Array Tool	10747683	300.00	15.77	19.58	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11022962	50.00	5.03	14.55	120.00
ACRt	Array Compensated True Resistivity Sonde Section	11005909	200.00	14.22	0.33	120.00
RSOF	Regal Standoff 6.75in	00000001	20.00	0.52 *	12.25	300.00
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00
Total			1,682.00	80.04		
* Not included in Total Length and Length Accumulation.						
Data: ROSE_4-110001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN1001 18-Aug-14 08:28 Dn @-6.3f					Date: 18-Aug-14 08:28:22	

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11048627	Reference Calibration Date:	09-Jul-14 10:31:38
Engineer:	SUHAIL BISHTI	Calibration Date:	07-Aug-14 21:30:09
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1
Calibrator Source S/N: Error			
Calibrator API Reference:265.00 api			
Equivalent Calibrator API Reference:269.6 api			
Measurement	Measured	Calibrated	Units
Background	53.0	53.5	api
Background + Calibrator	319.9	323.2	api
Calibrator	266.9	269.6	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 11048627	Reference Calibration Date:	07-Aug-14 21:30:09
Engineer:	J. BOLLLOM	Calibration Date:	18-Aug-14 08:10:26
Software Version:	WL INSITE R4.2.0 (Build 2)	Calibration Version:	1
Calibrator Source S/N: Error			
Calibrator API Reference:265.00 api			
Equivalent Calibrator API Reference:269.6 api			
Field Verification	Shop	Field	Units
Background	53.5	45.2	api
Background + Calibrator	323.2	313.9	api
Calibrator	269.6	268.7	api
Shop	Field	Difference	Tolerance
269.6	268.7	0.9	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION			
Tool Name:	ACRt Sonde - 11005909	Reference Calibration Date:	17-May-14 12:19:28
Engineer:	J. BOLLLOM	Calibration Date:	10-Jul-14 11:09:23
Software Version:	WL INSITE R4.2.0 (Build 2)	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	1.0205	1.05	0.95	1.0251	1.05	0.95	1.0230	1.05
A2 (50")	0.95	1.0167	1.05	0.95	1.0223	1.05	0.95	1.0220	1.05

A3 (29")	0.95	1.0069	1.05	0.95	1.0111	1.05	0.95	1.0088	1.05
A4 (17")	0.95	1.0064	1.05	0.95	1.0089	1.05	0.95	1.0072	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.0028	1.05	0.95	0.9995	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.9905	1.05	0.95	0.9883	1.05

SONDE OFFSET									
Subarray	R12KHz			R36KHz			R72KHz		
	(mmho/m)			(mmho/m)			(mmho/m)		
A1 (80")	-0.296			-3.290			-4.976		
A2 (50")	-1.408			-3.336			-4.324		
A3 (29")	-15.103			-4.681			-2.704		
A4 (17")	-101.201			-30.805			-26.034		
A5 (10")	N/A			-99.289			-45.237		
A6 (6")	N/A			286.654			150.907		

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	1.58	2.0					
PASS/FAIL SUMMARY GAIN RANGE CHKPASS SONDE OFFSET CHKPASS TOOL OK TO LOG								

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11048627						
Gamma Ray Calibrator	269.6	268.7	-----	0.9	+/- 9.00	api
ACRt Sonde-11005909						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: ROSE_4-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\001 18-Aug-14 08:28 Dn @-6.3f					Date: 18-Aug-14 08:29:15	

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	9.400	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	2.000	ohmm
	SHARED	TBM	Temperature of Mud	75.0	degF

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	4770.00	ft
SHARED	BHT	Bottom Hole Temperature	200.0	degF
SHARED	SVTM	Navigation and Survey Master Tool	NONE	
SHARED	AZTM	High Res Z Accelerometer Master Tool	GTET	
SHARED	TEMM	Temperature 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	
Rwa / CrossPlot	BHSM	Borehole Size Source Tool	SDLT	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GRSO	Gamma Tool Standoff	0.000	in
GTET	GEOK	Process Gamma Ray EVR?	Yes	
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?	Yes	
DSNT	NLIT	Neutron Lithology	Limestone	
DSNT	DNSO	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	
DSNT	BHSM	Borehole Size Source Tool	SDLT	
SDLT	CLOK	Process Caliper Outputs?	Yes	
SDLT Pad	DNOK	Process Density?	Yes	
SDLT Pad	DNOK	Process Density EVR?	Yes	
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	
Microlog Pad	MLOK	Process MicroLog Outputs?	Yes	
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 Fluid	189.00	uspf
BSAT	DTMT	Delta -T Matrix Type	User define	
BSAT	DTMA	Delta -T Matrix	47.60	uspf
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 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
ACRt Sonde	BHSM	Borehole Size Source Tool	SDLT	
BOTTOM				
Data: ROSE_4-1\0001 SP-GTET-DSN-SDL-FLEX-BSAT-ACRT-BN\001 18-Aug-14 08:28 Dn @-6.3f				Date: 18-Aug-14 08:28:48

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	80.04	NO	
BS	Bit Size	80.04	NO	
HDIA	Measured Hole Diameter	0.00	NO	
RWCH				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	72.01	NO	
SP	Spontaneous Potential	72.01	BLK	1.250
SPR	Raw Spontaneous Potential	72.01	NO	
SPO	Spontaneous Potential Offset	72.01	NO	
GTET				
TPUL	Tension Pull	63.99	NO	
GR	Natural Gamma Ray API	63.99	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	63.99	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	63.99	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	53.74	NO	
RNDS	Near Detector Telemetry Counts	53.84	BLK	1.417
RFDS	Far Detector Telemetry Counts	54.59	TRI	0.583
DNTT	DSN Tool Temperature	53.84	NO	
DSNS	DSN Tool Status	53.74	NO	
ERND	Near Detector Telemetry Counts EVR	53.84	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	54.59	BLK	0.000
ENTM	DSN Tool Temperature EVR	53.84	NO	
HDIA	Measured Hole Diameter	0.00	NO	

SDLT				
TPUL	Tension Pull	43.84	NO	
PCAL	Pad Caliper	43.84	TRI	0.250
ACAL	Arm Caliper	43.84	TRI	0.250
BSAT				
TPUL	Tension Pull	26.84	NO	
STAT	Status	26.84	NO	
DLYT	Delay Time	26.84	NO	
SI	Sample Interval	26.84	NO	
TXRX	Raw Telemetry 10 Receivers	26.84	NO	
FRMC	Tool Frame Count	26.84	NO	
GMOD	Gain processing mode	19.58	NO	
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

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	

SDLT Pad				
TPUL	Tension Pull	43.83	NO	
NAB	Near Above	43.66	BLK	0.920
NHI	Near Cesium High	43.66	BLK	0.920
NLO	Near Cesium Low	43.66	BLK	0.920
NVA	Near Valley	43.66	BLK	0.920
NBA	Near Barite	43.66	BLK	0.920
NDE	Near Density	43.66	BLK	0.920
NPK	Near Peak	43.66	BLK	0.920
NLI	Near Lithology	43.66	BLK	0.920
NBAU	Near Barite Unfiltered	43.66	BLK	0.250
NLIU	Near Lithology Unfiltered	43.66	BLK	0.250
FAB	Far Above	44.01	BLK	0.250
FHI	Far Cesium High	44.01	BLK	0.250
FLO	Far Cesium Low	44.01	BLK	0.250
FVA	Far Valley	44.01	BLK	0.250
FBA	Far Barite	44.01	BLK	0.250
FDE	Far Density	44.01	BLK	0.250
FPK	Far Peak	44.01	BLK	0.250
FLI	Far Lithology	44.01	BLK	0.250
PTMP	Pad Temperature	43.84	BLK	0.920
NHV	Near Detector High Voltage	43.24	NO	
FHV	Far Detector High Voltage	43.24	NO	
ITMP	Instrument Temperature	43.24	NO	
DDHV	Detector High Voltage	43.24	NO	
HDIA	Measured Hole Diameter	0.00	NO	

Microlog Pad				
TPUL	Tension Pull	44.03	NO	
MINV	Microlog Lateral	44.03	BLK	0.750
MNOR	Microlog Normal	44.03	BLK	0.750

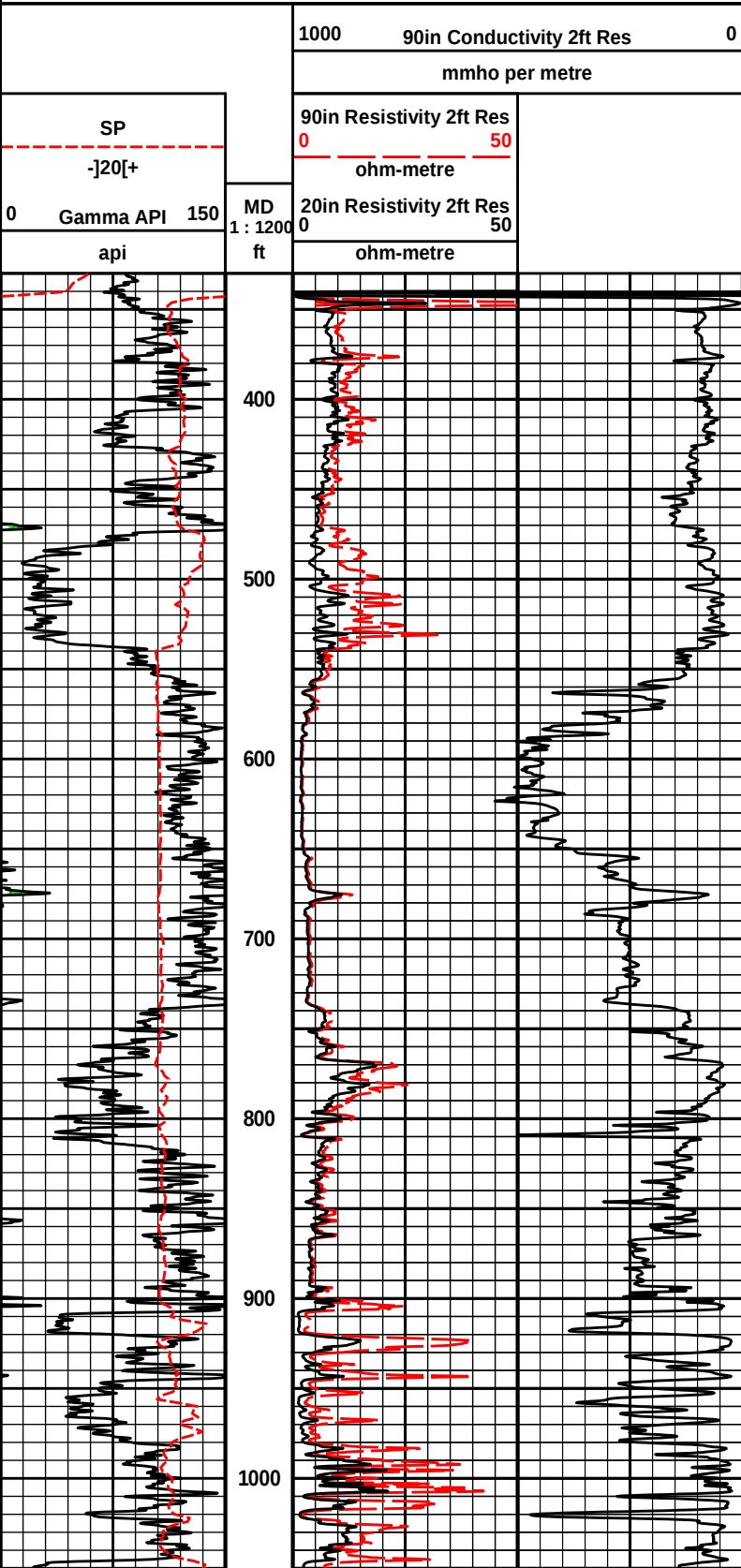
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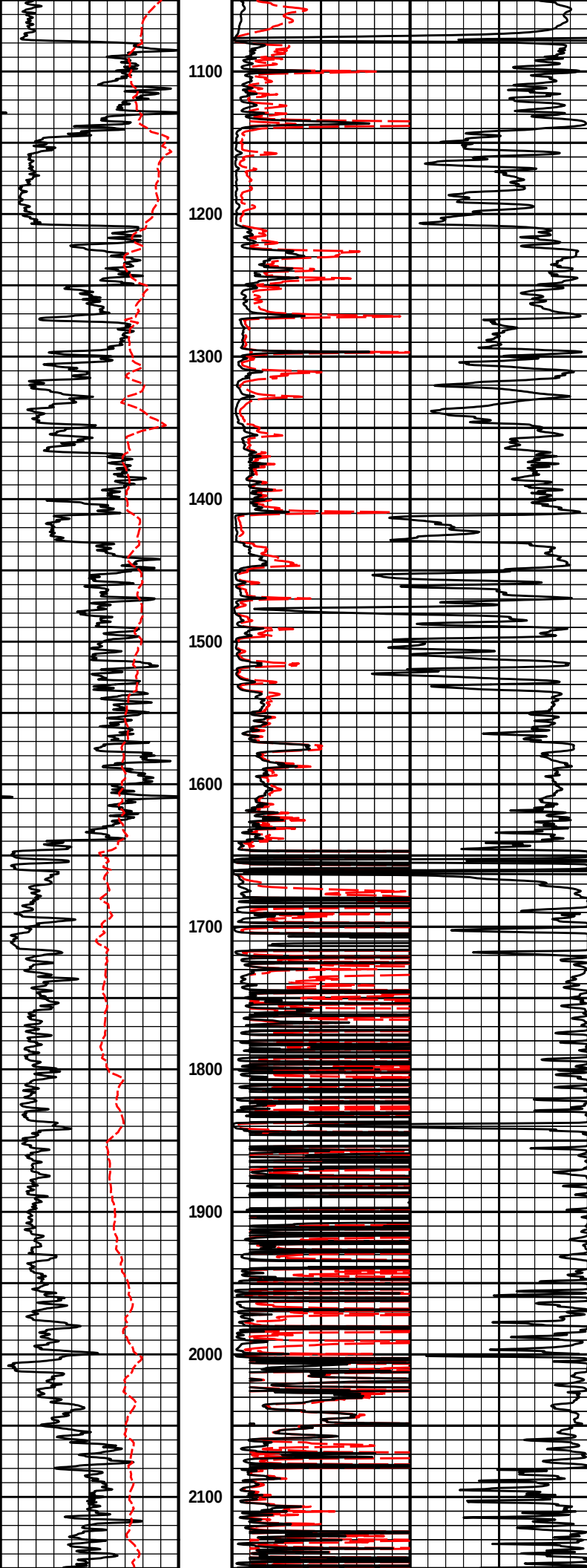
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WELL	ROSE 4-1			
FIELD	AMERICAN BEAUTY			
COUNTY	WICHITA	STATE	KANSAS	

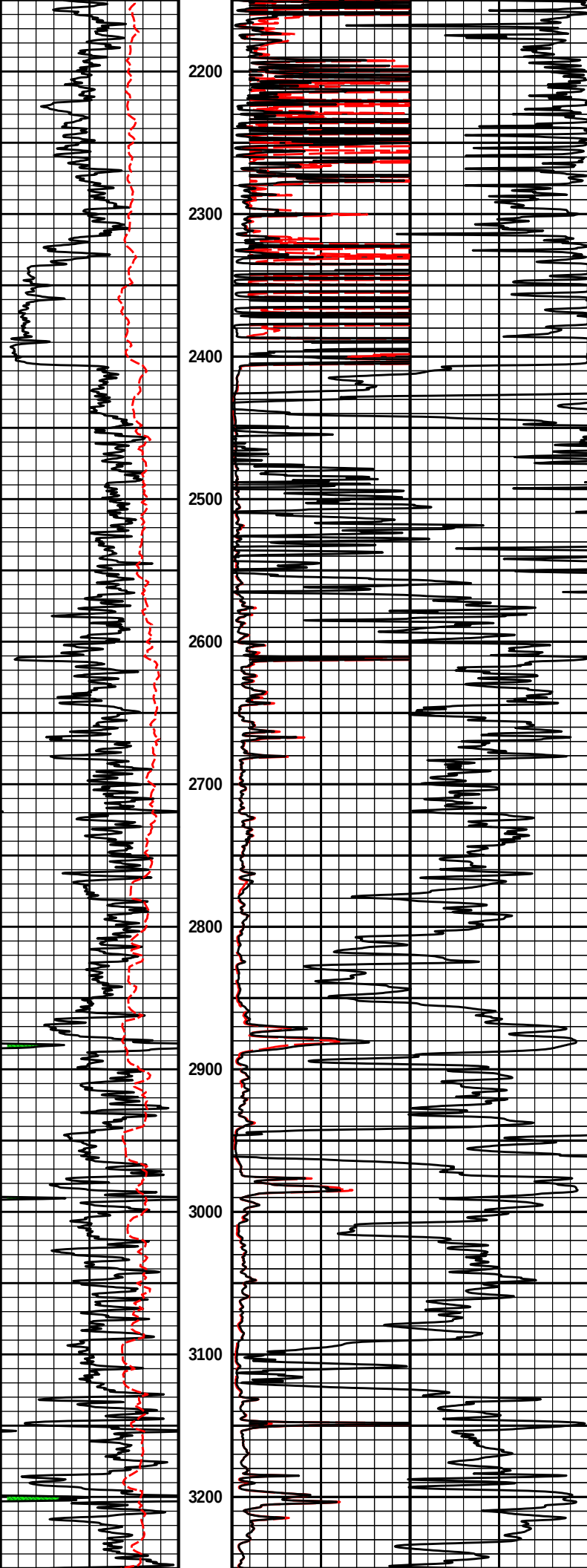
HALLIBURTON

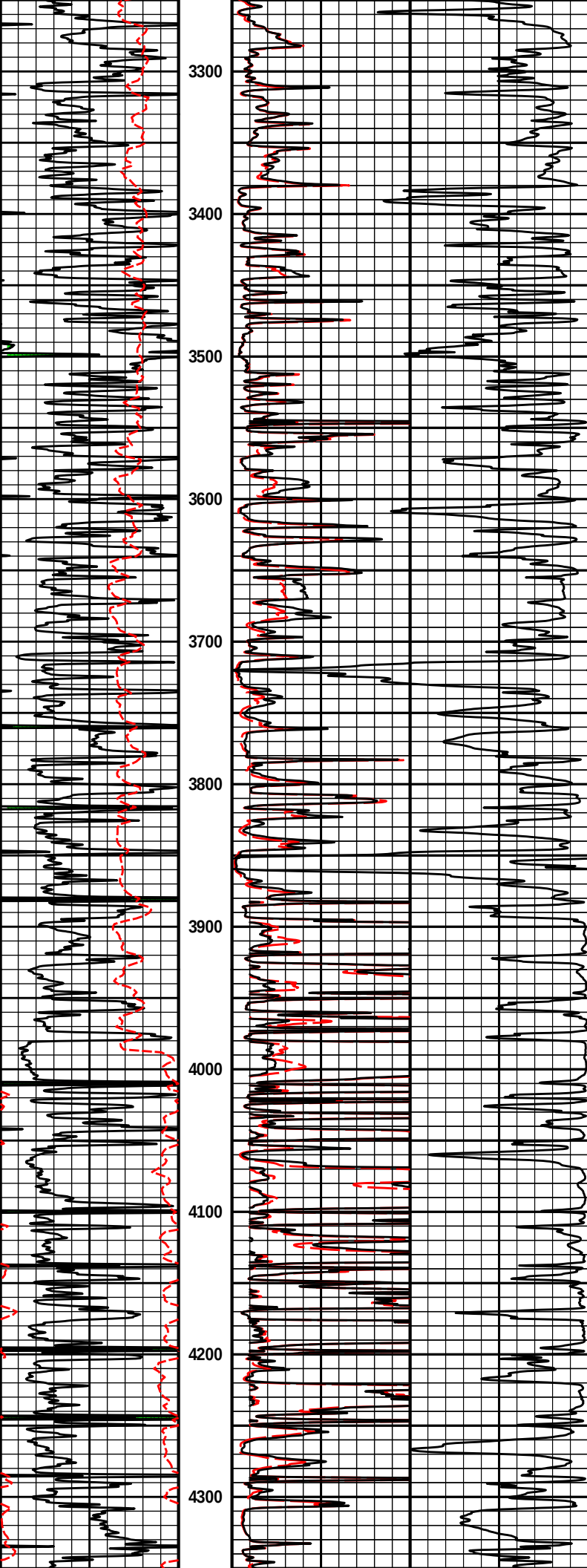
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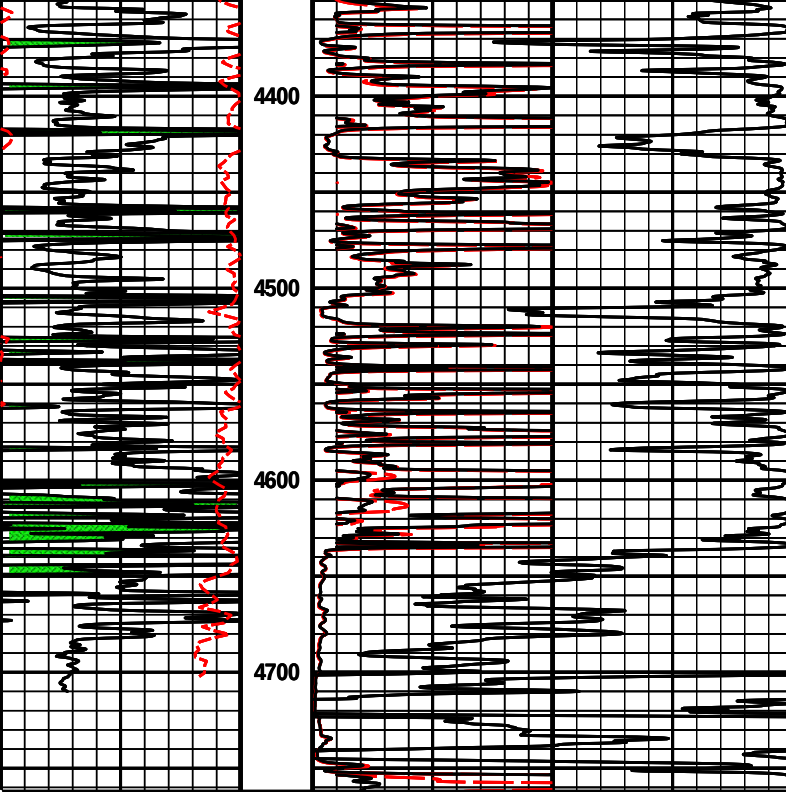
1 INCH MAIN LOG











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

HALLIBURTON

Plot Time: 18-Aug-14 10:46:50
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1 INCH MAIN LOG