

HALLIBURTON

ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

COMPANY				SANDRIDGE			
WELL				MADISON SWD 3304 1-24			
FIELD				NA			
COUNTY				SUMNER			
STATE				KANSAS			
Permanent Datum				GL	Elev. 1238.0 ft		Other Services: DSNT/SDLT/M WSTT CSNG
Log measured from				KB	D.F. 1249.5 ft		
Drilling measured from				KB	G.L. 1238.0 ft		
Date				18-Jul-13			
Run No.				ONE			
Depth - Driller				4825.00 ft			
Depth - Logger				4821.0 ft			
Bottom - Logged Interval				4819.0 ft			
Top - Logged Interval				376.0 ft			
Casing - Driller				8.625 in @ 390.0 ft	@		
Casing - Logger				387.5 ft			
Bit Size				7.875 in	@		
Type Fluid in Hole				WATER BASED			
Density				9.3 ppg	4.20 s/qt		
PH				10.00 pH	5.6 cp/m		
Source of Sample				FLOW LINE			
Rm @ Meas. Temperature				0.720 ohmm @ 89.00 degF	@		
Rmf @ Meas. Temperature				0.65 ohmm @ 85.00 degF	@		
Rmc @ Meas. Temperature				0.830 ohmm @ 85.00 degF	@		
Source Rmf				MEASURED	MEASURED		
Rm @ BHT				0.49 ohmm @ 134.0 degF	@		
Time Since Circulation				6.0 hr			
Time on Bottom				18-Jul-13 15:23			
Max. Rec. Temperature				134.0 degF @ 4821.0 ft	@		
Equipment				10549592	PVOK		
Recorded By				CORY HANSON			
Witnessed By				BRUCE			

Fold here

Service Ticket No.: N/A						API Serial No.: 15-191-22686						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.		@		@		ONE	ACRT	NA		1.5" S.O.		NA					
Rmc @ Meas. Temp.		@		@			90144321-e989-										
Source Rmf	Rmc																
Rm @ BHT		@		@													
Rmf @ BHT		@		@													
Rmc @ BHT		@		@													
EQUIPMENT DATA																	
GAMMA				ACOUSTIC				DENSITY				NEUTRON					
Run No.	ONE		Run No.				Run No.			Run No.							
Serial No.	11013114		Serial No.				Serial No.			Serial No.							
Model No.	GTET		Model No.				Model No.			Model No.							
Diameter	3.625"		No. of Cent.				Diameter			Diameter							
Detector Model No.	T-102		Spacing				Log Type			Log Type							
Type	SCINT						Source Type			Source Type							
Length	8"		LSA [Y/N]				Serial No.			Serial No.							
Distance to Source	18'		FWDA [Y/N]				Strength			Strength							

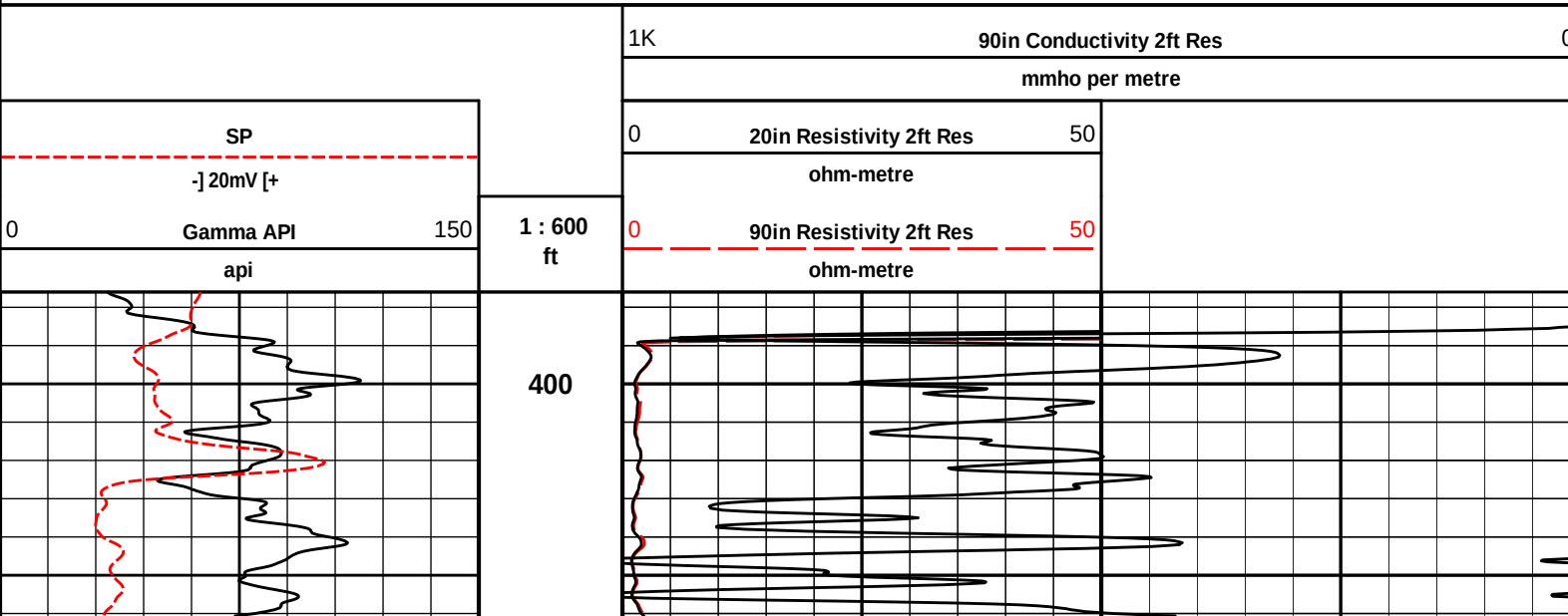
GENERAL				GAMMA		ACOUSTIC		DENSITY		NEUTRON				
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix
No.	From	To	ft/min	L	R	L	R		L	R		L	R	
ONE	TD	CSG	REC	0	150				30	-10	2.71	30	-10	LIME
DIRECTIONAL INFORMATION														
Maximum Deviation @									KOP @					
Remarks: GTET/CSNG/DSNT/SDLT/ICT/IDT/WSTT/ACRT RUN IN COMBINATION														
ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING														
CHLORIDES REPORTED AT 13400 PPM														
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES: PAULS VALLEY, OK														
HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.														
HALLIBURTON														

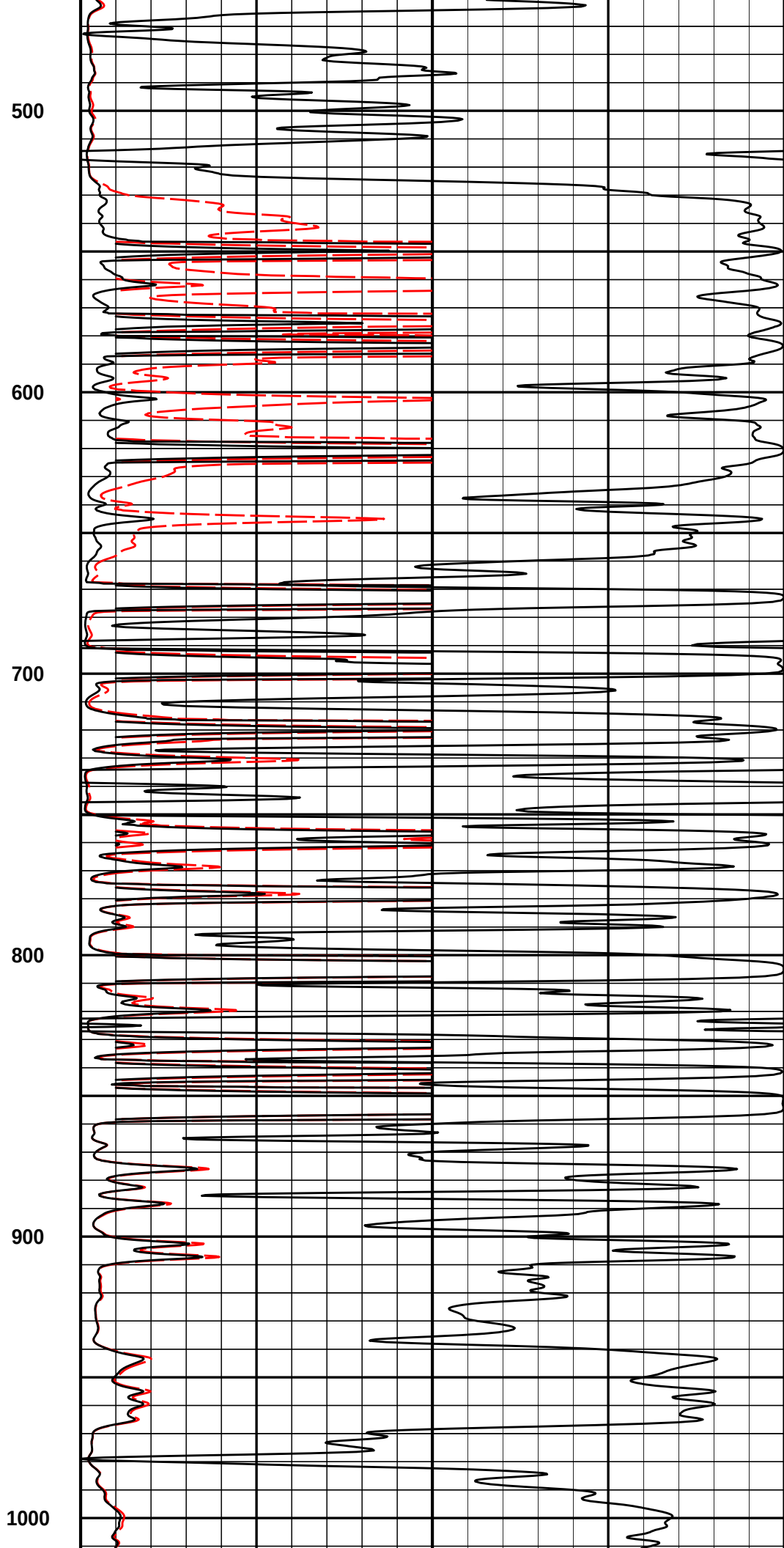
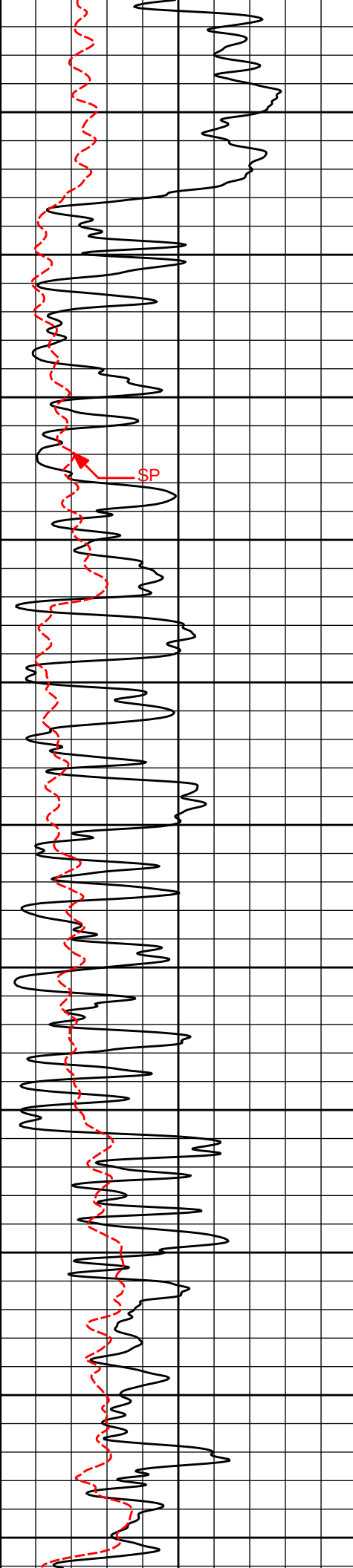
HALLIBURTON

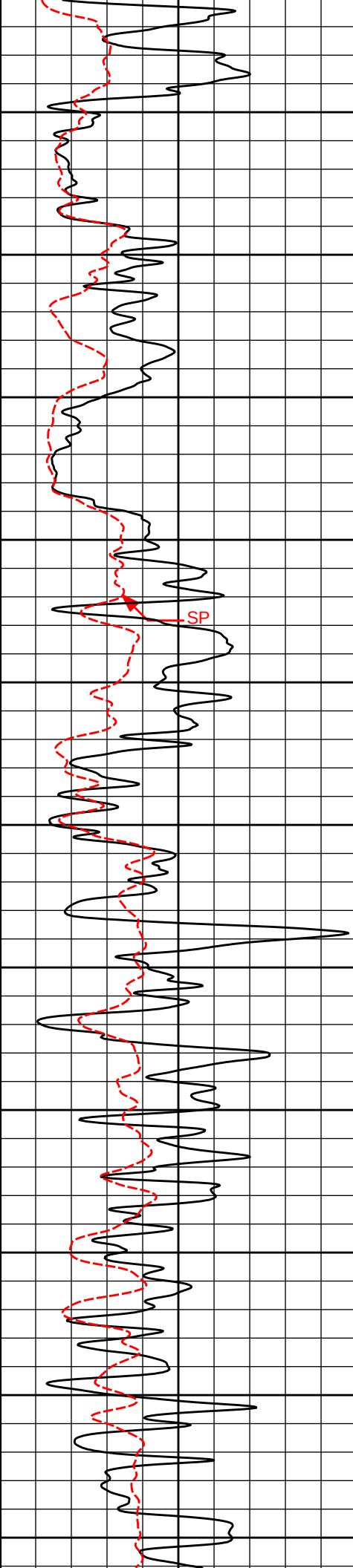
Plot Time: 18-Jul-13 21:46:13
Plot Range: 376 ft to 4819.5 ft
Data: {ActiveWell}\Well Based\MAIN_RUN_1\
Plot File: \\LOCAL-MADISON_3304_1_10001 BLACK-GTET-CSNG-DSNT-SDLT-IDT-ICT-WAVE-ACRTIACRT1_ACRT_2inx

2 INCH MAIN LOG

2 INCH MAIN LOG







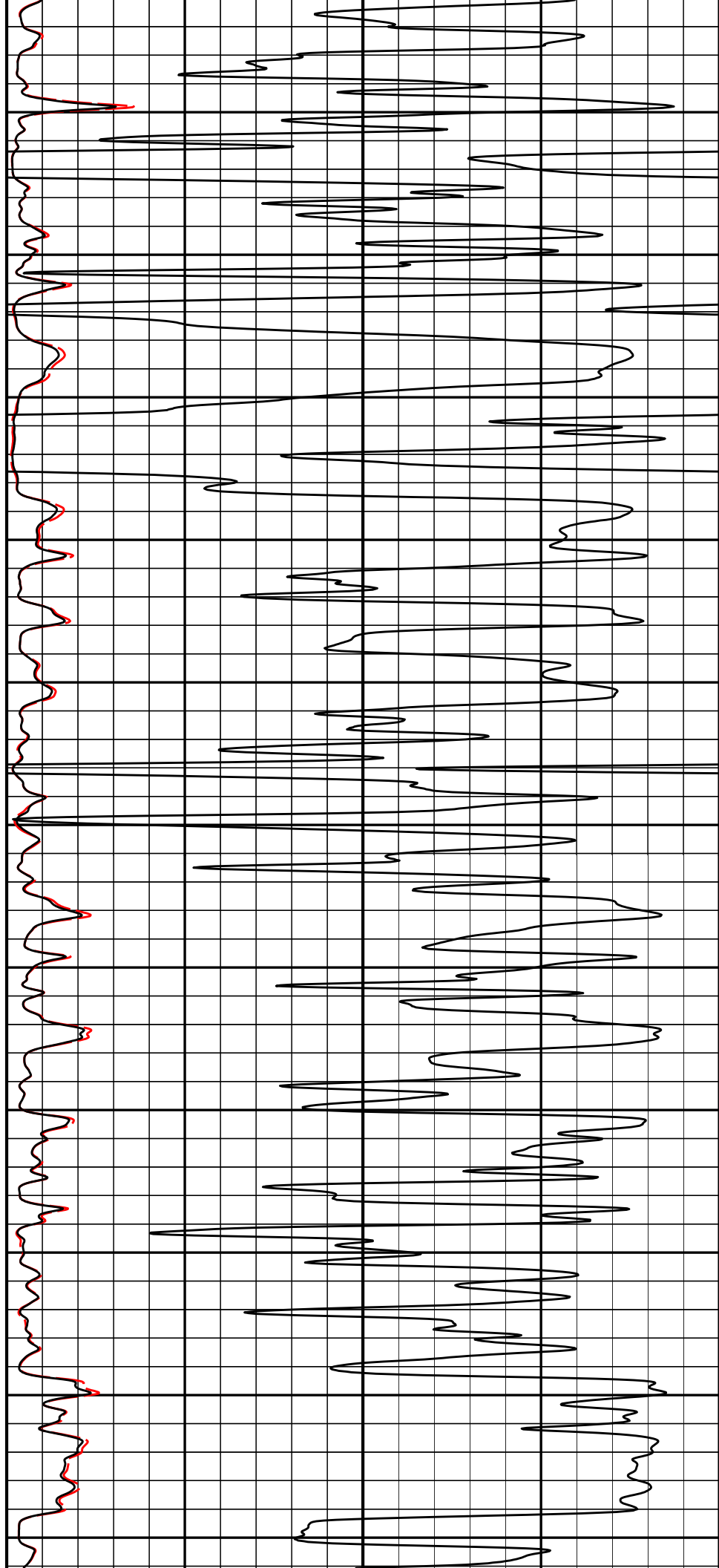
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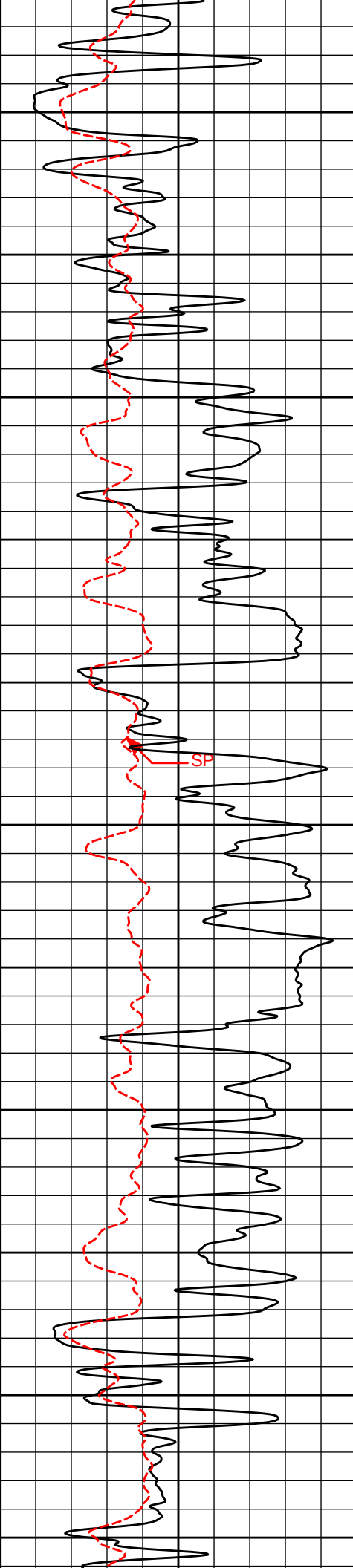
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1300

1400

1500





1600

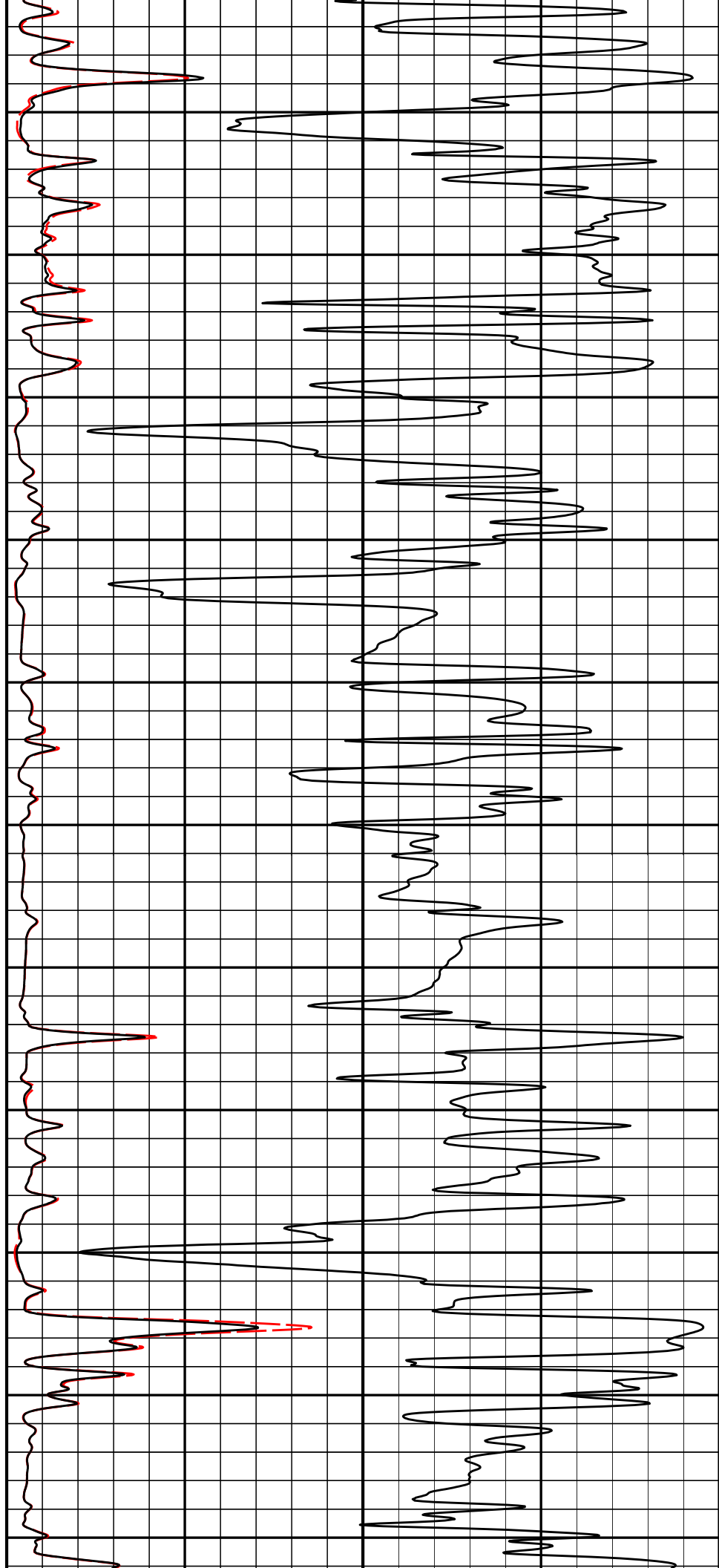
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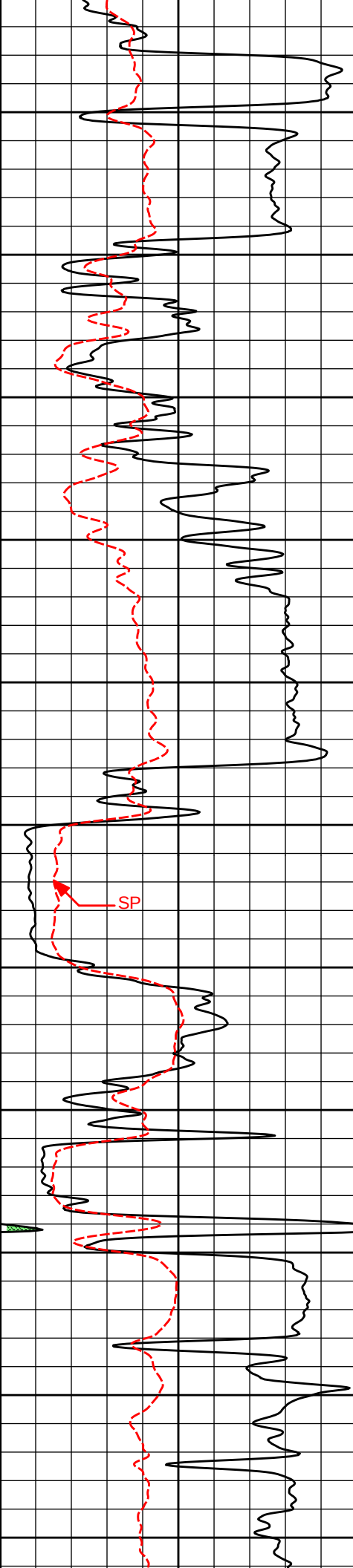
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1900

2000

2100





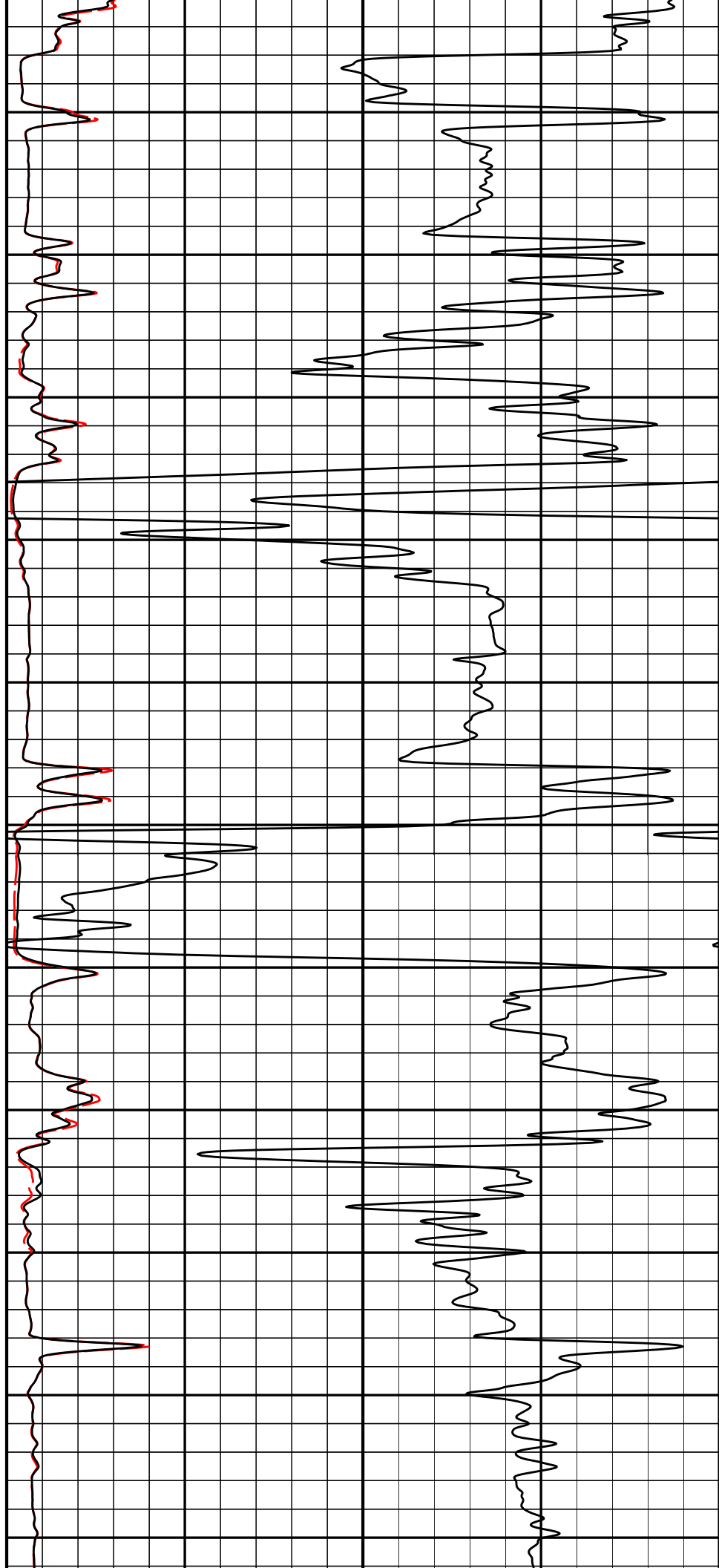
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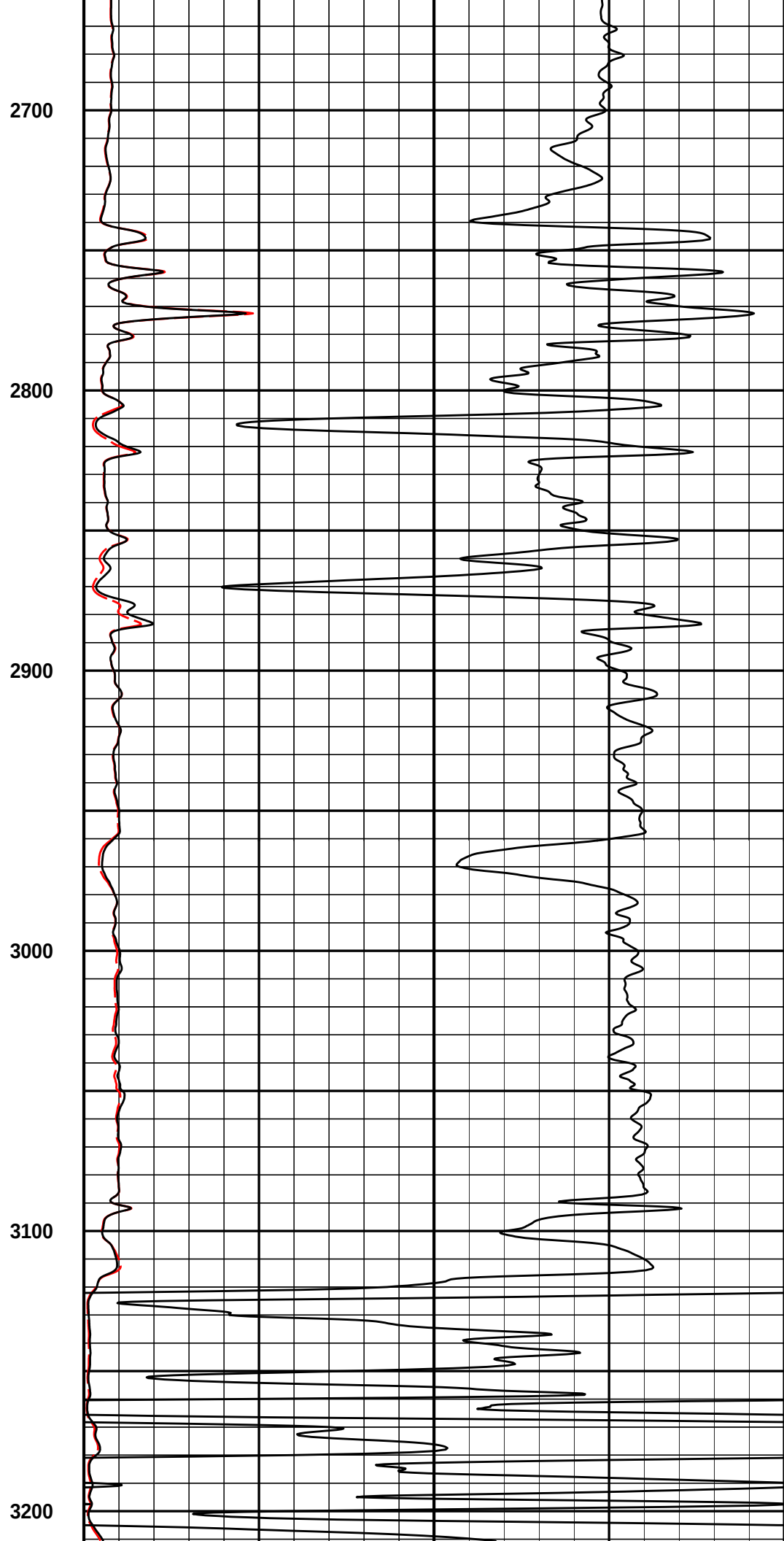
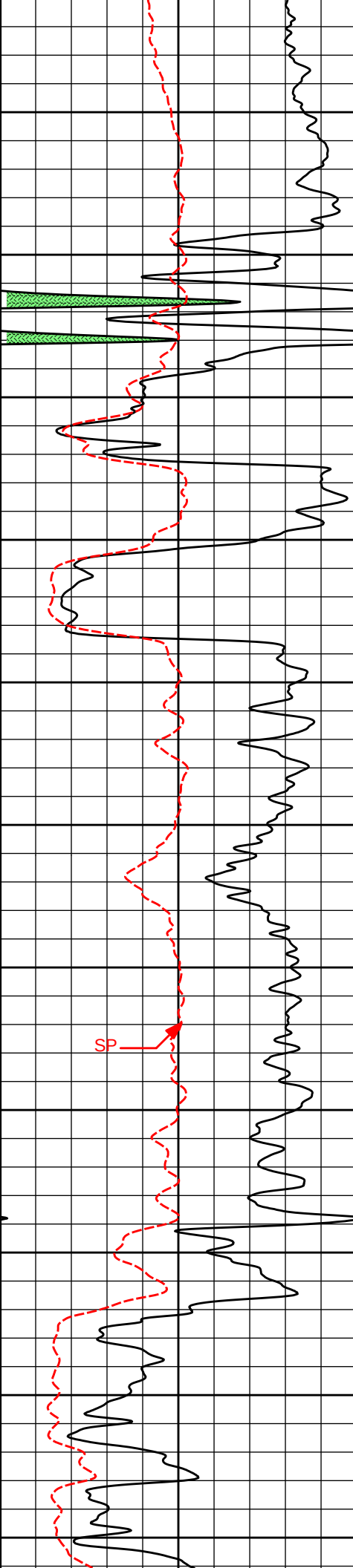
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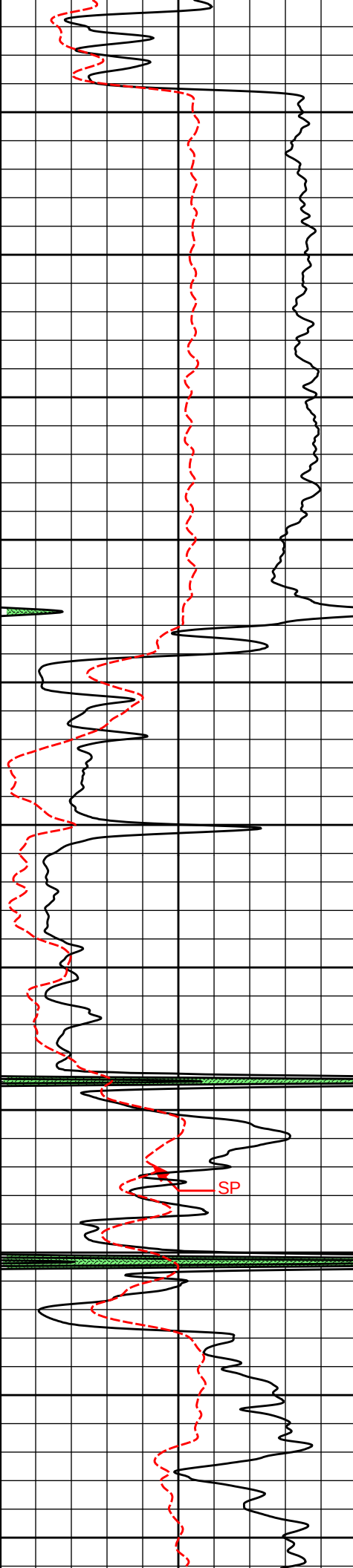
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2500

2600







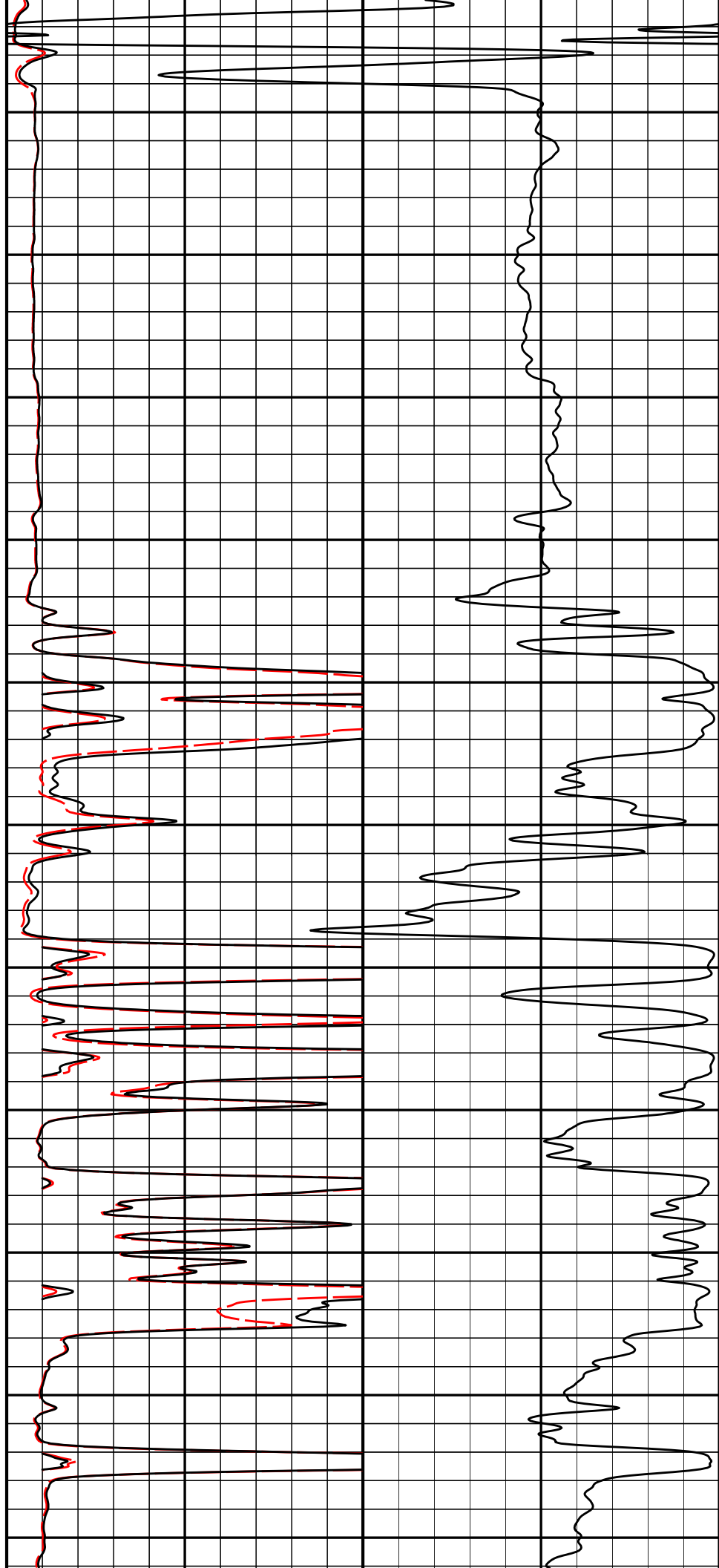
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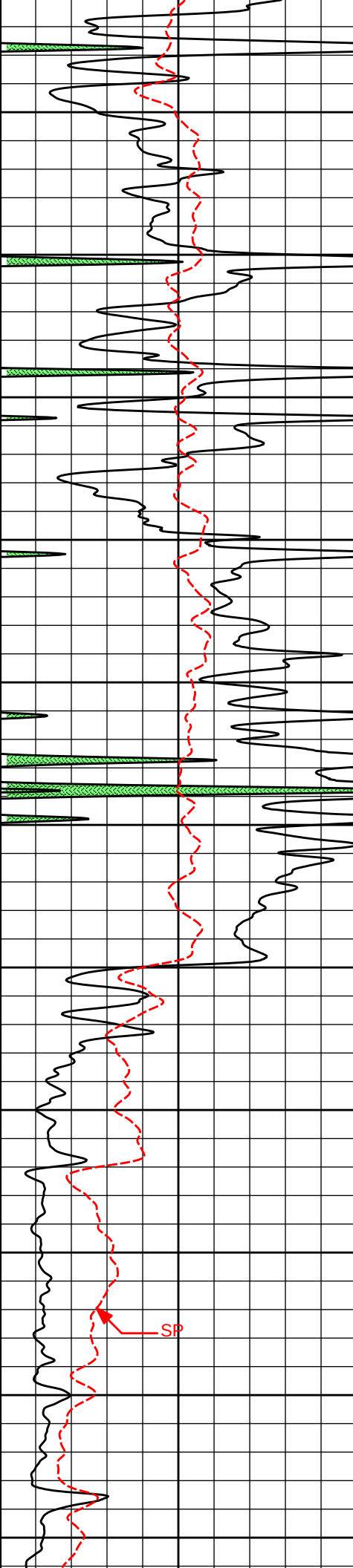
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3500

3600

3700





3800

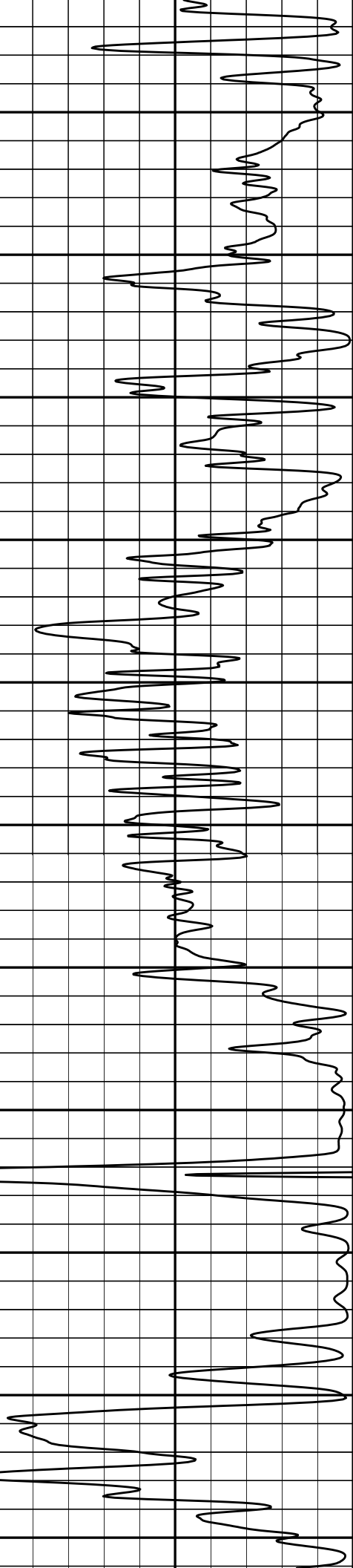
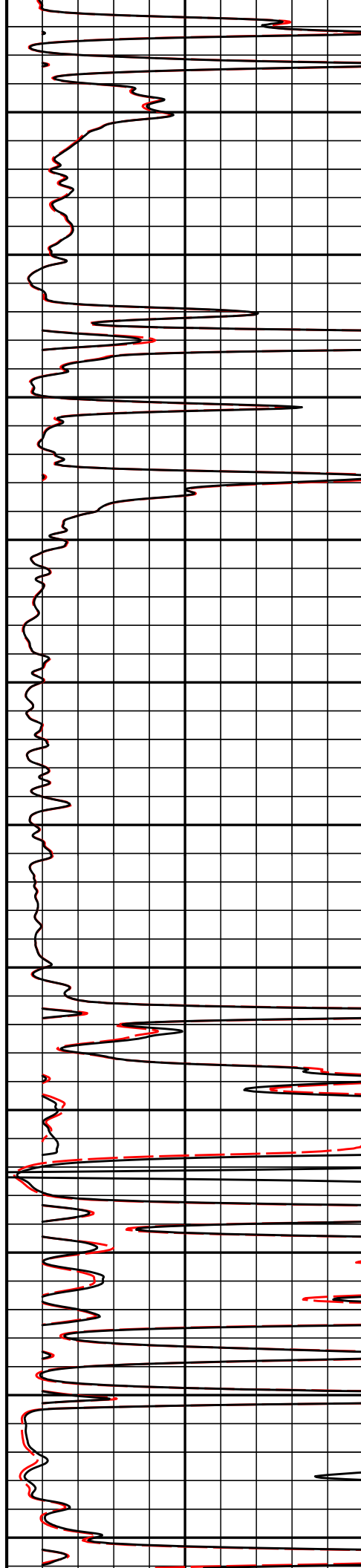
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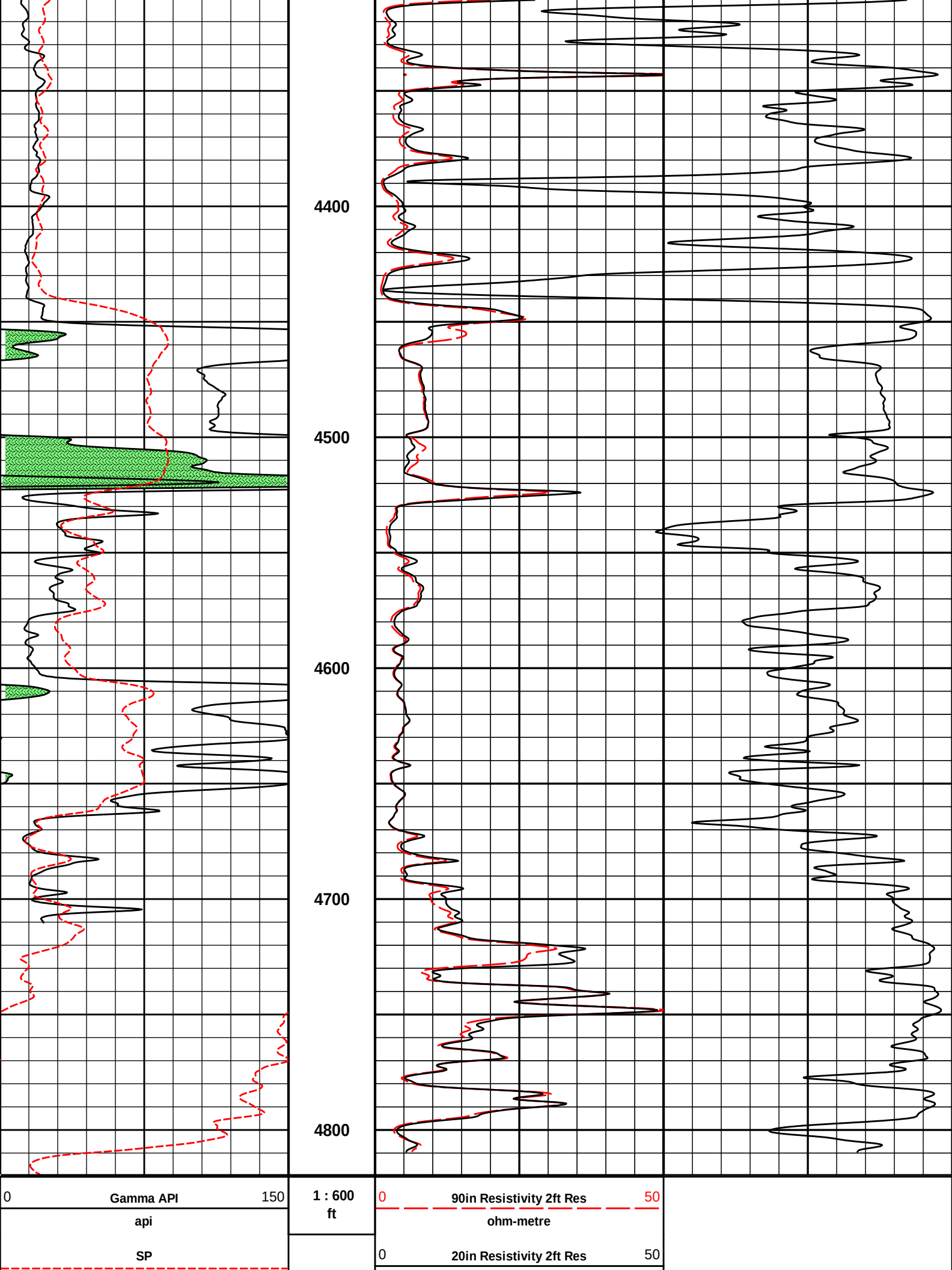
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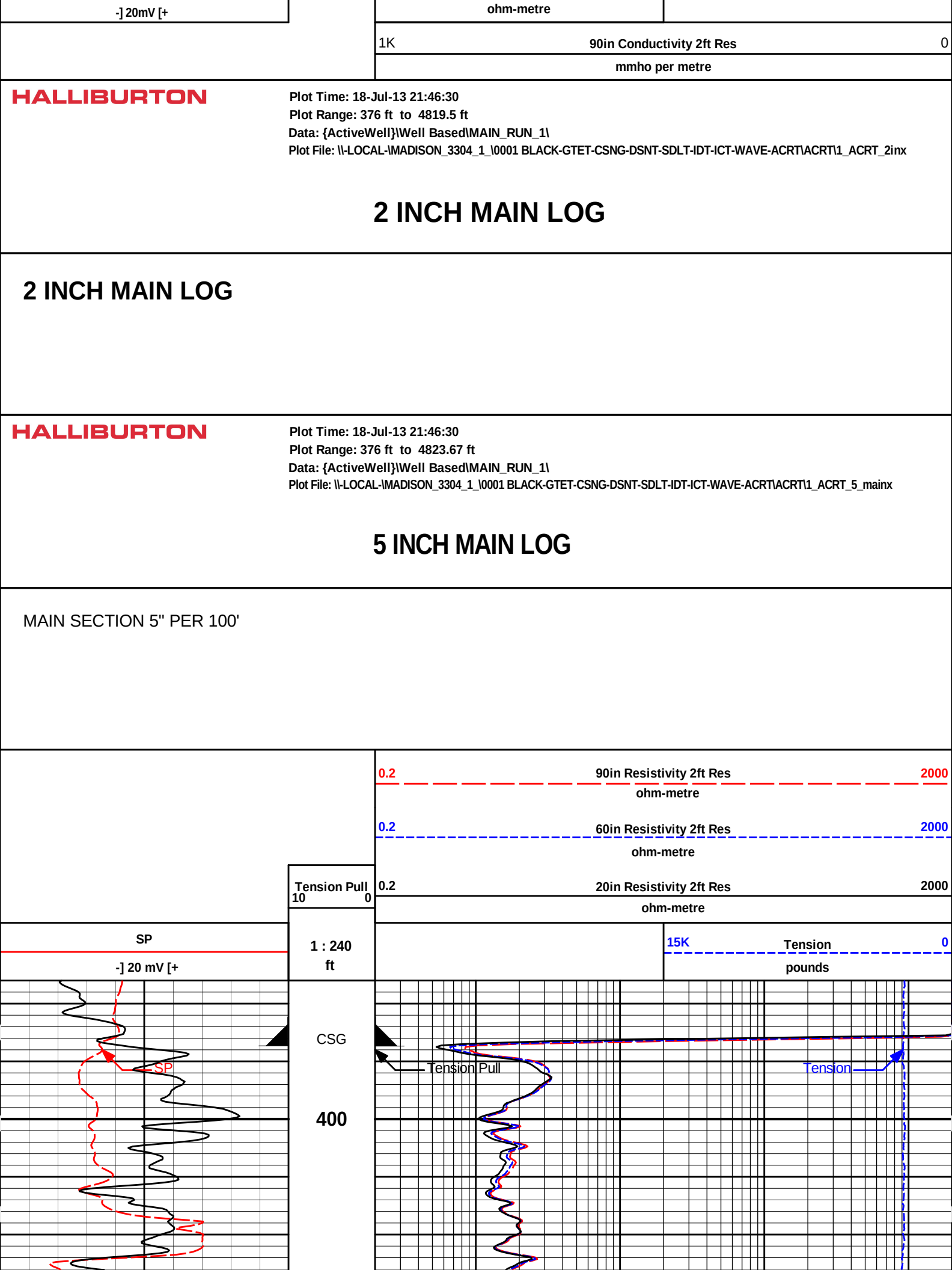
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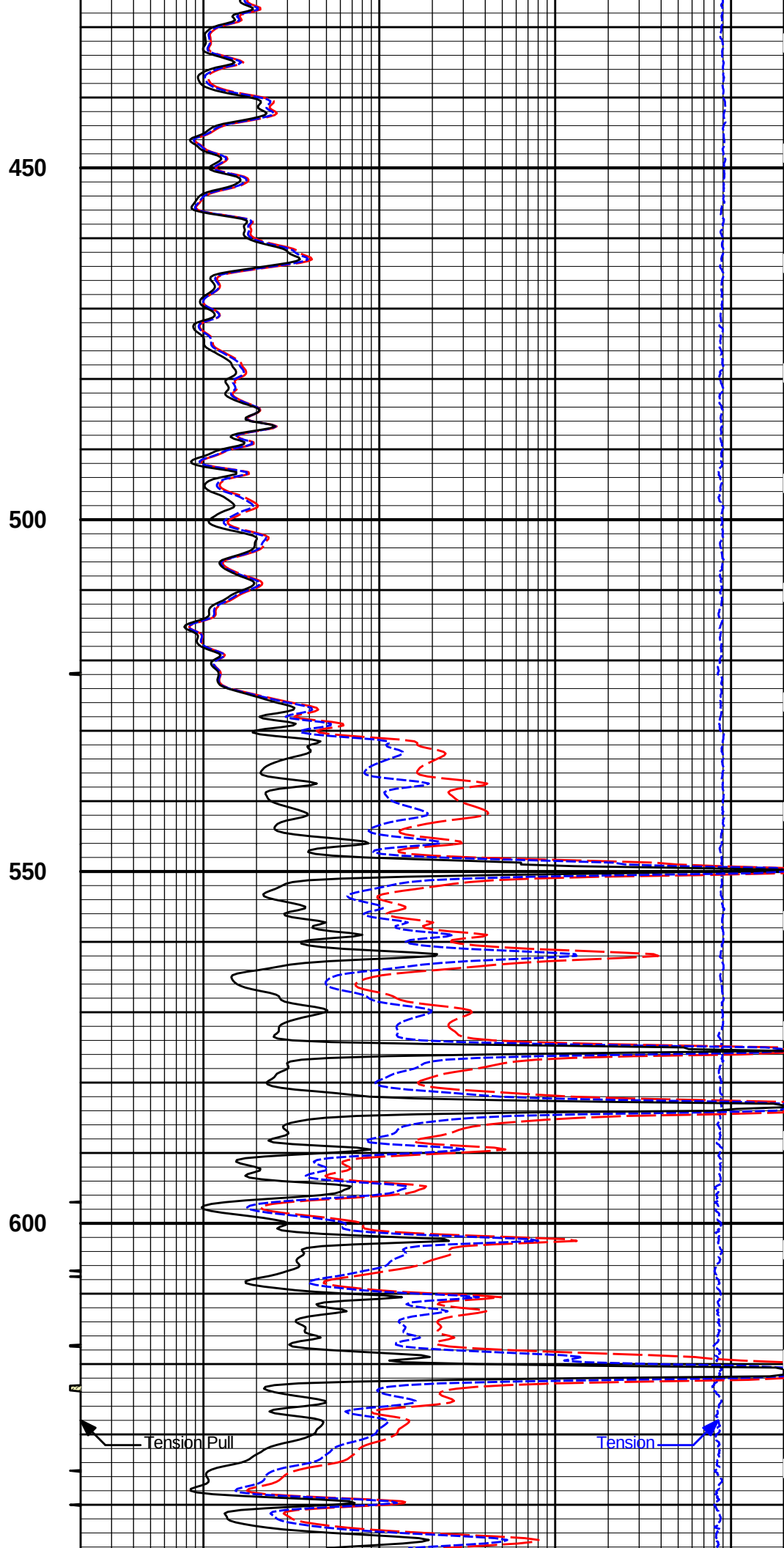
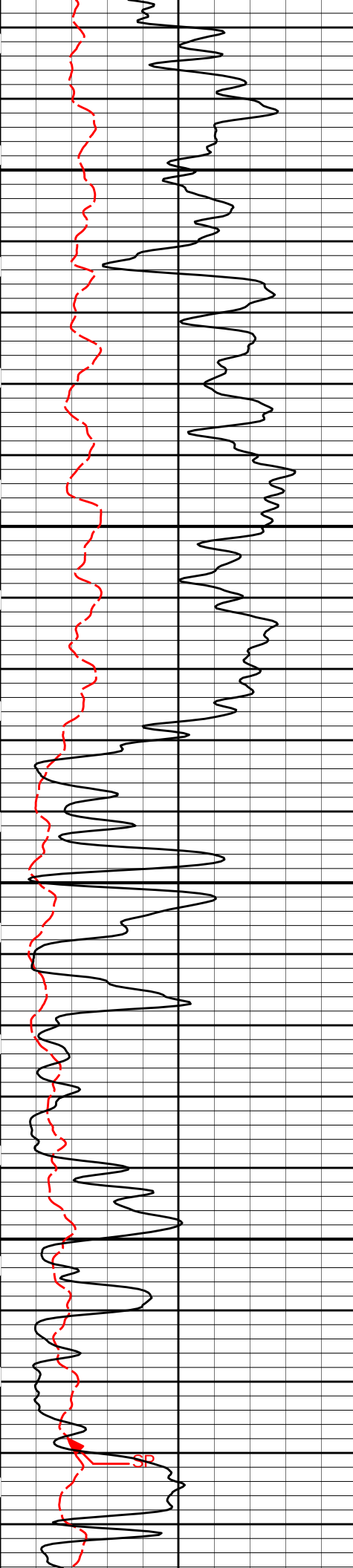
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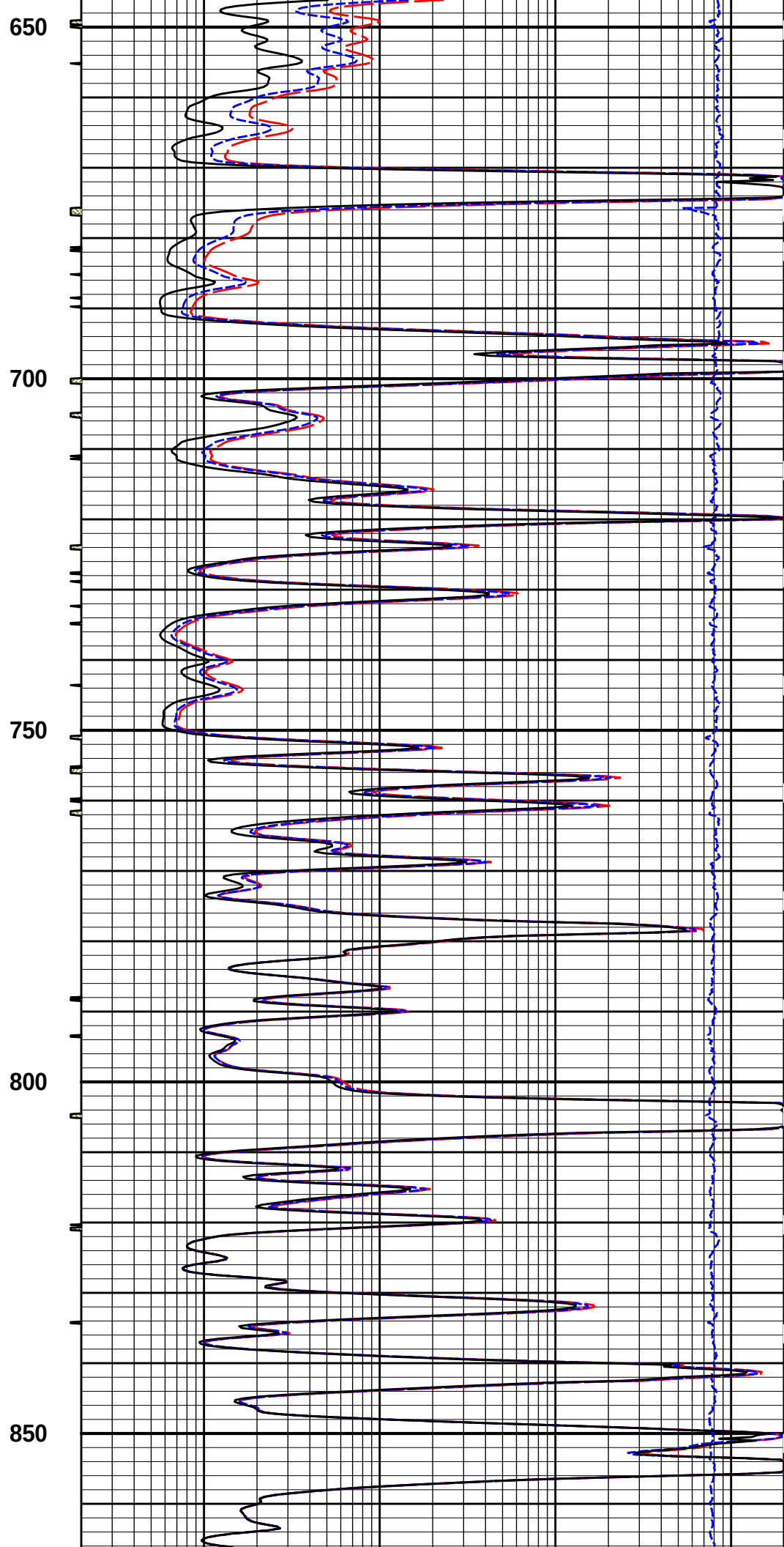
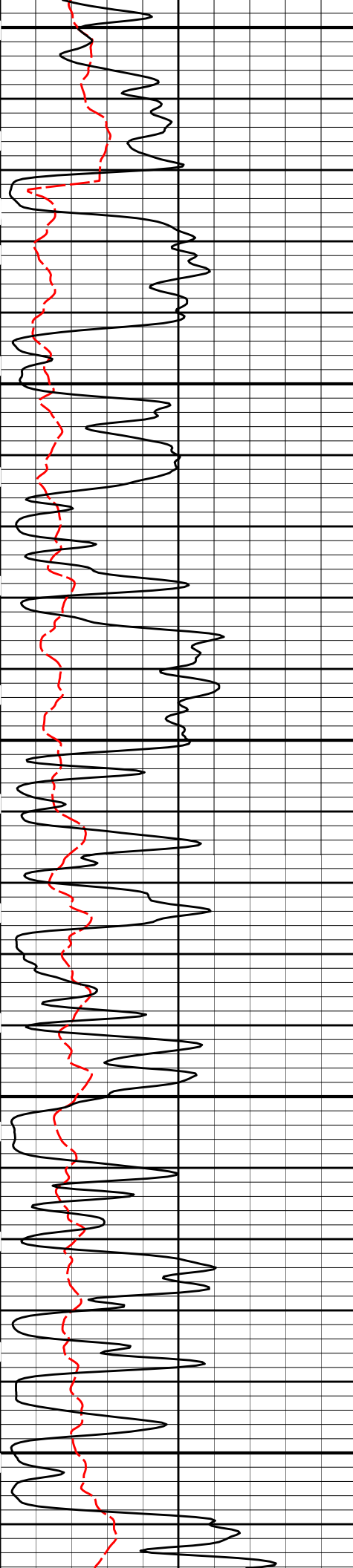


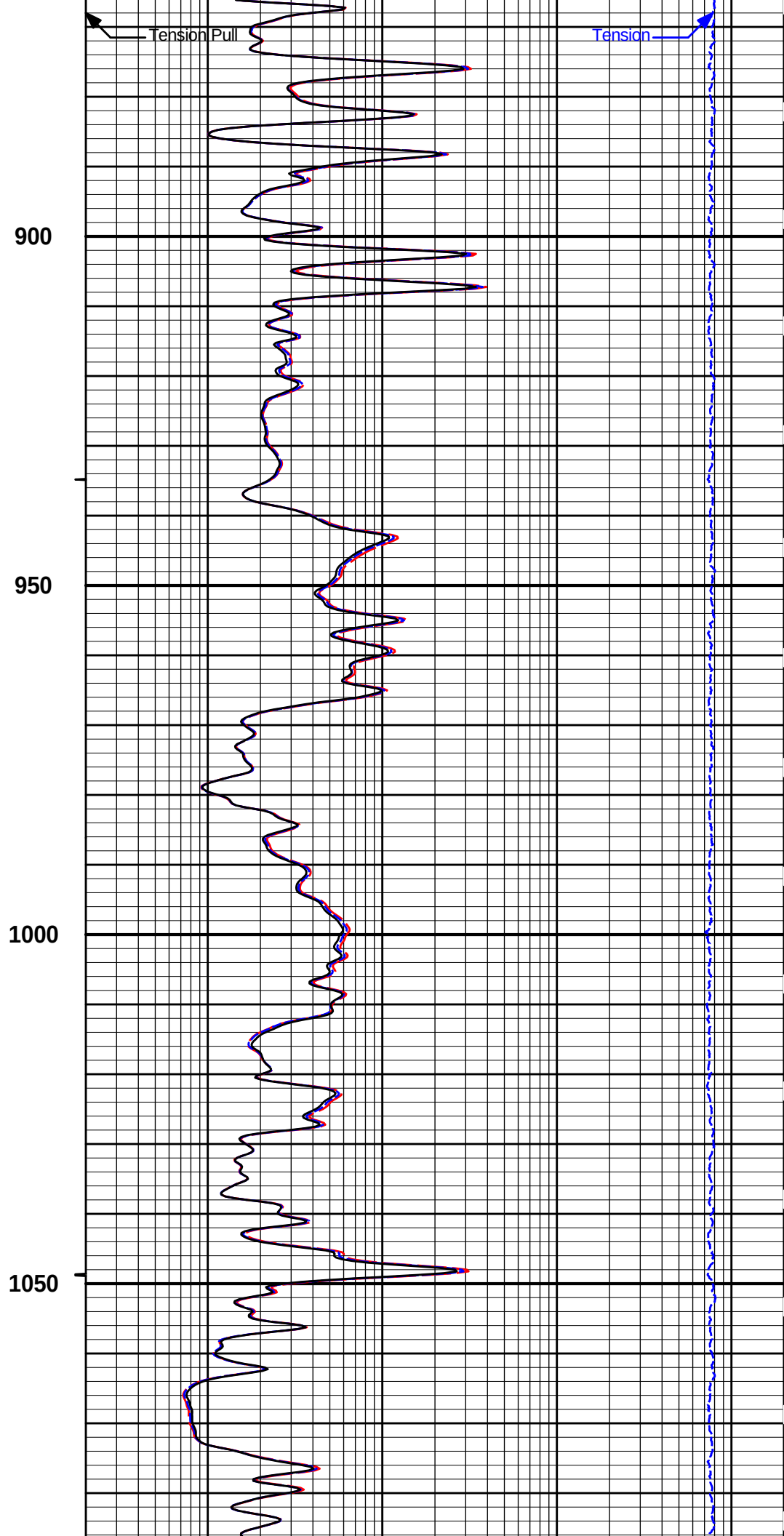
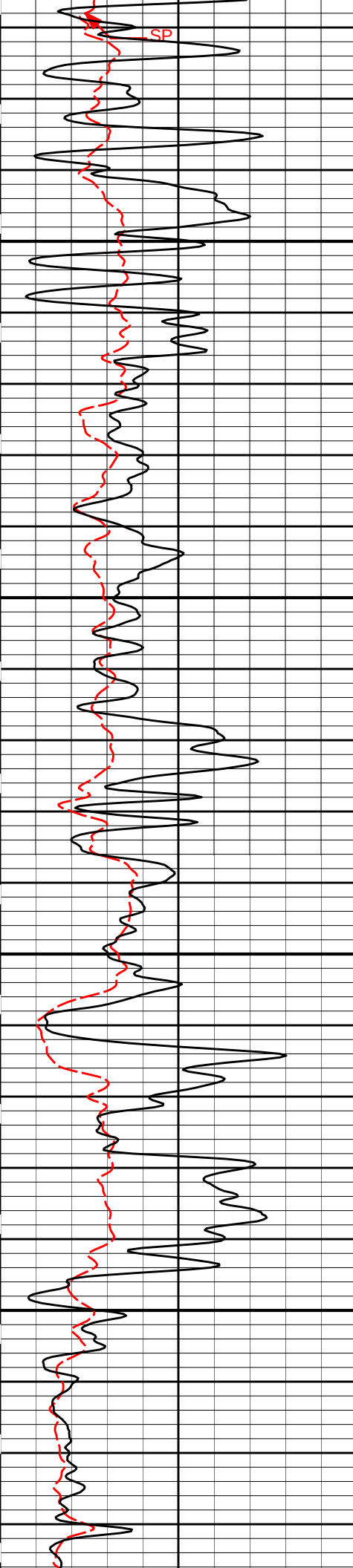


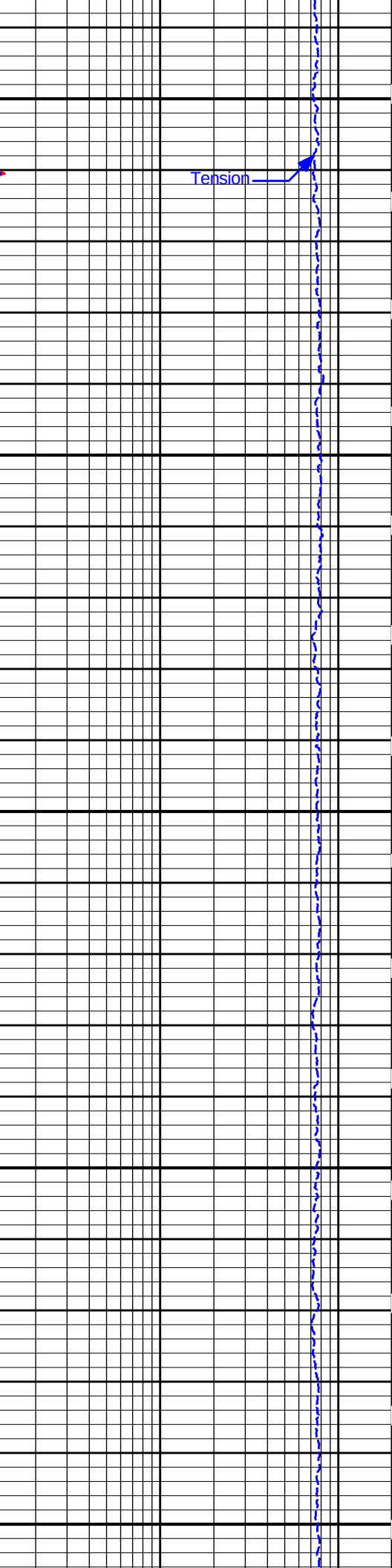
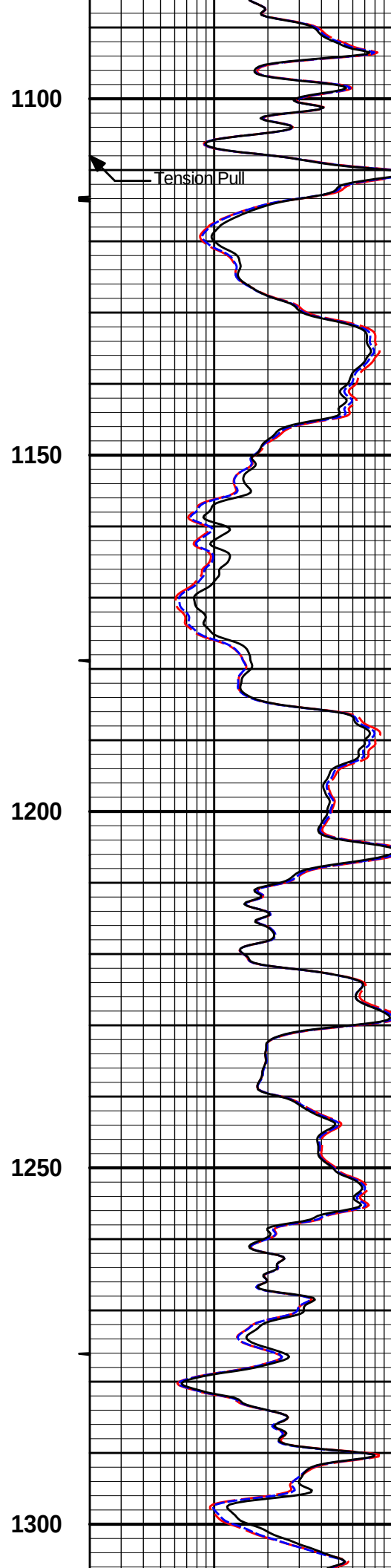
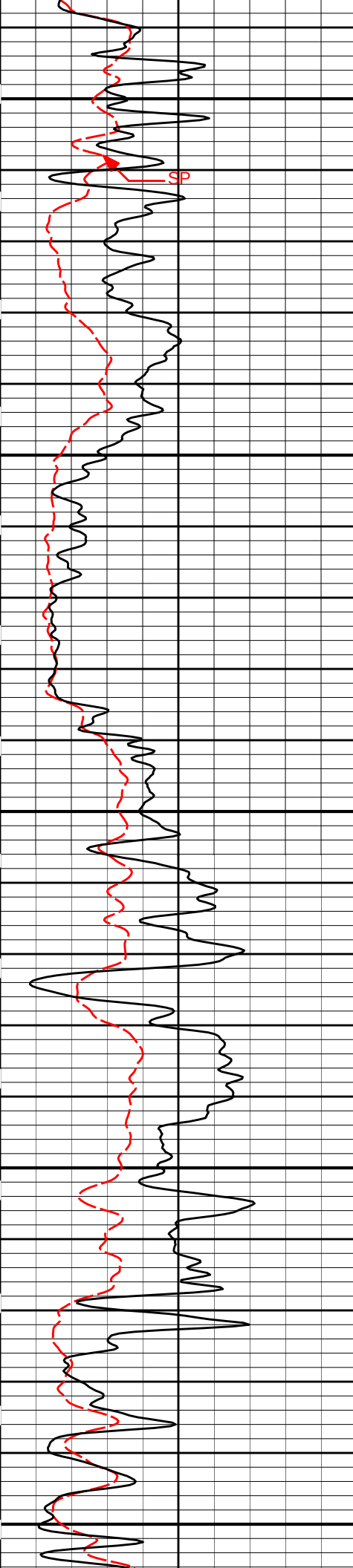
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	api		ft		ohm-metre	
	SP			0	20in Resistivity 2ft Res	50

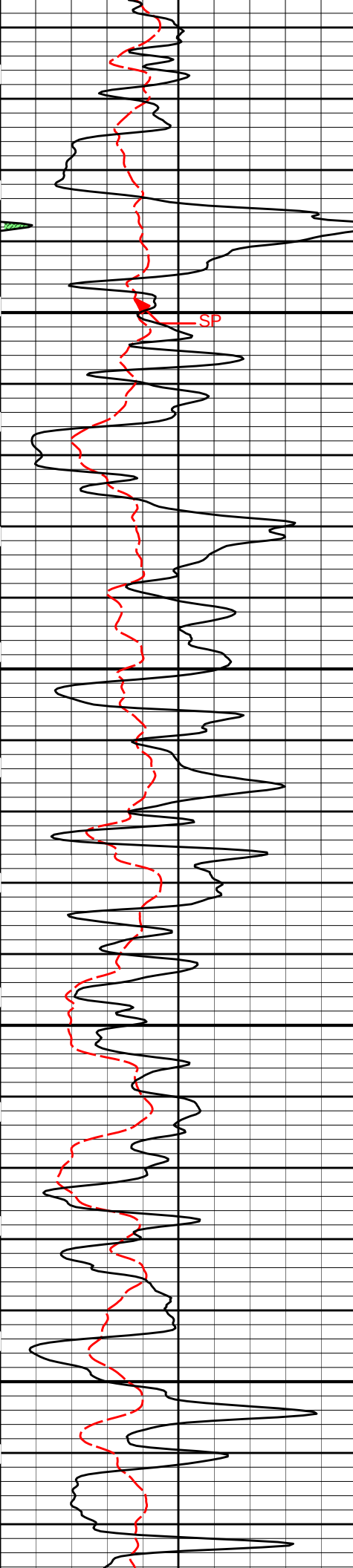










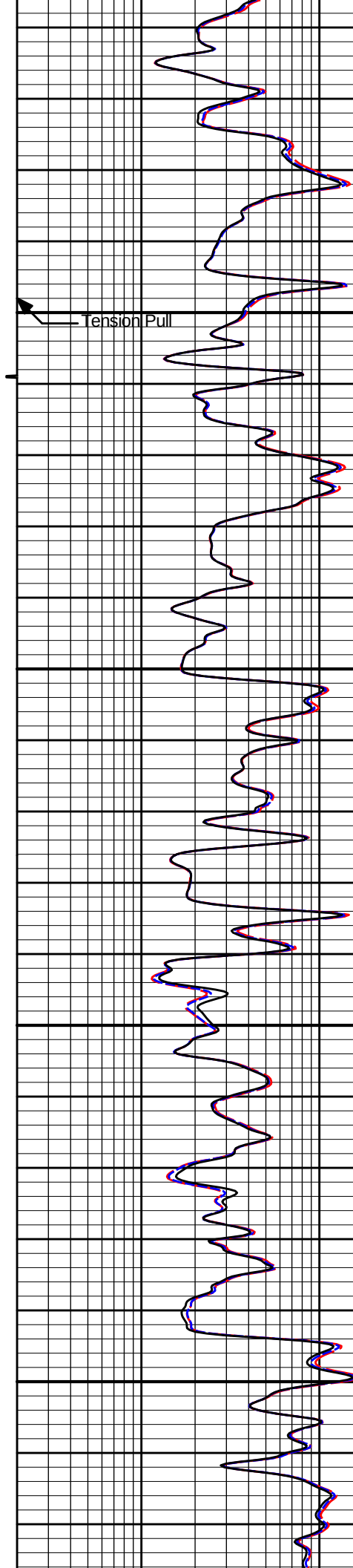


1350

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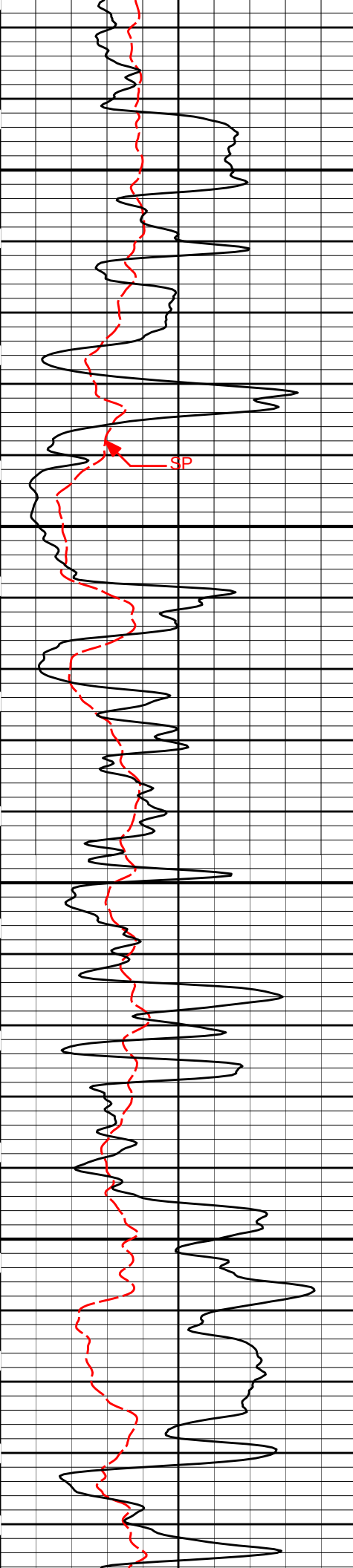
1450

1500



Tension Pull

Tension

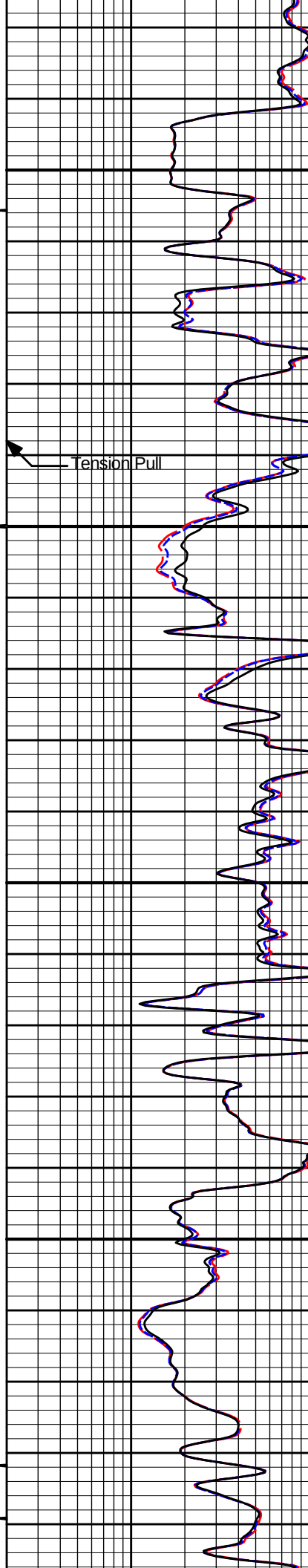


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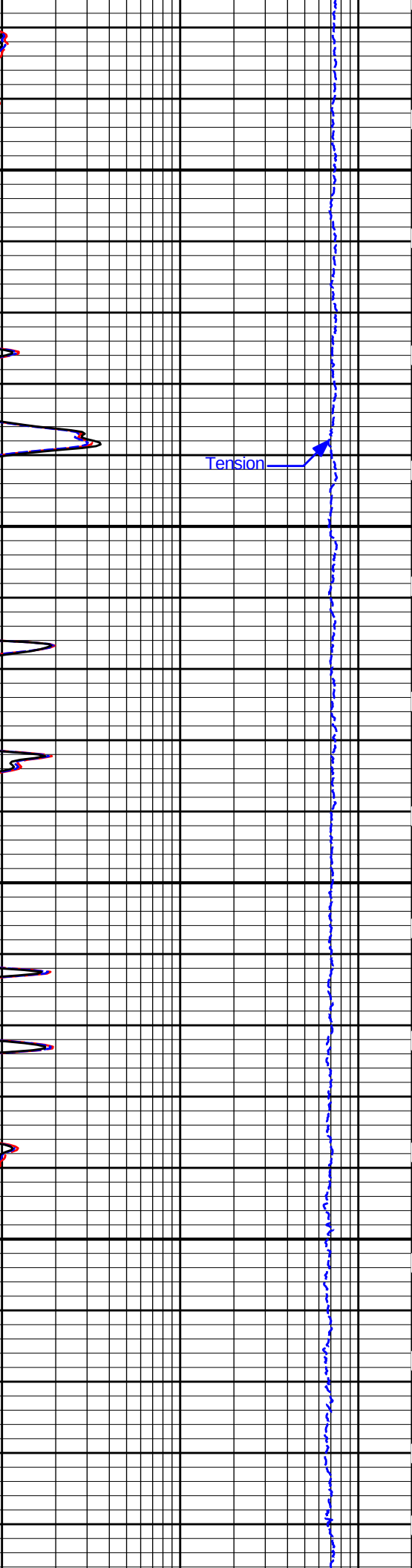
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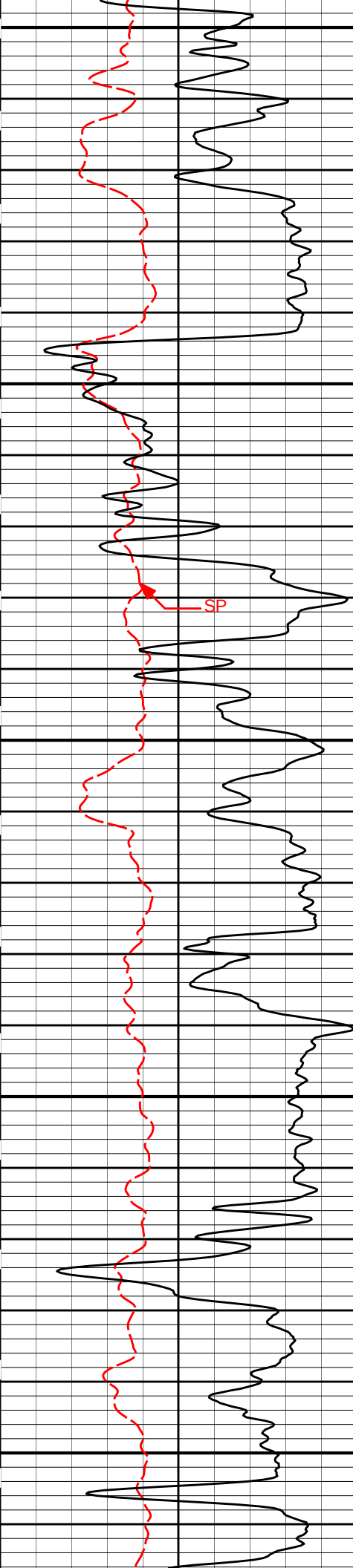
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Tension Pull



Tension



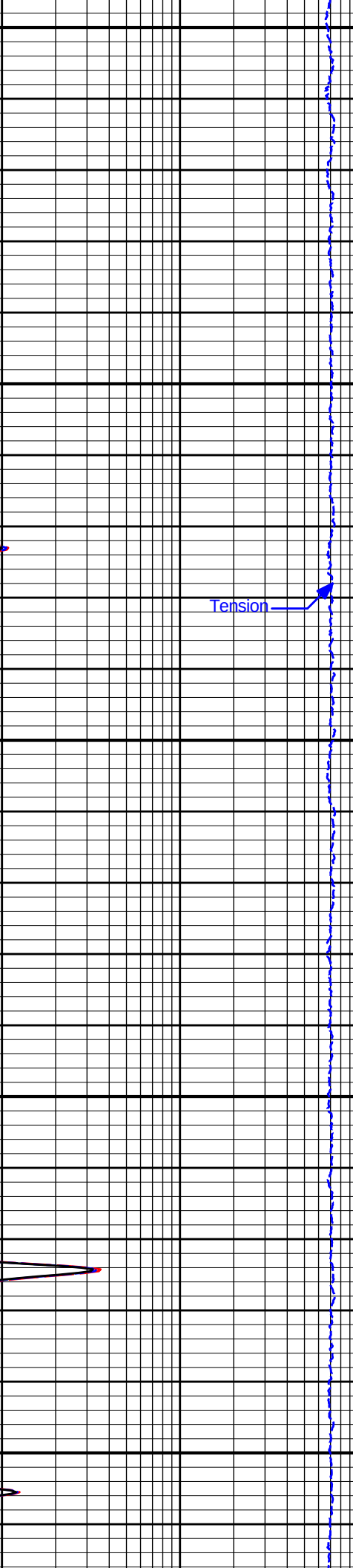
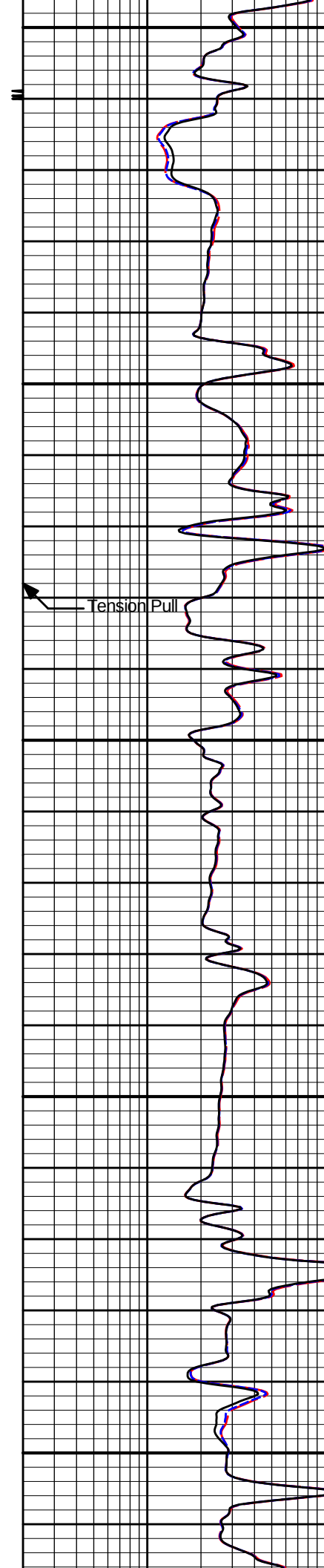
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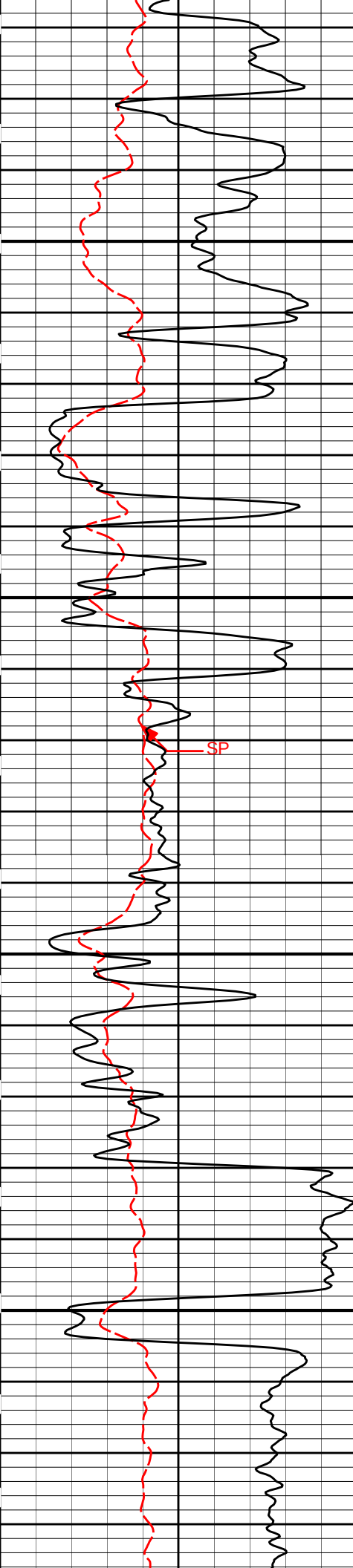
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1850

1900

1950



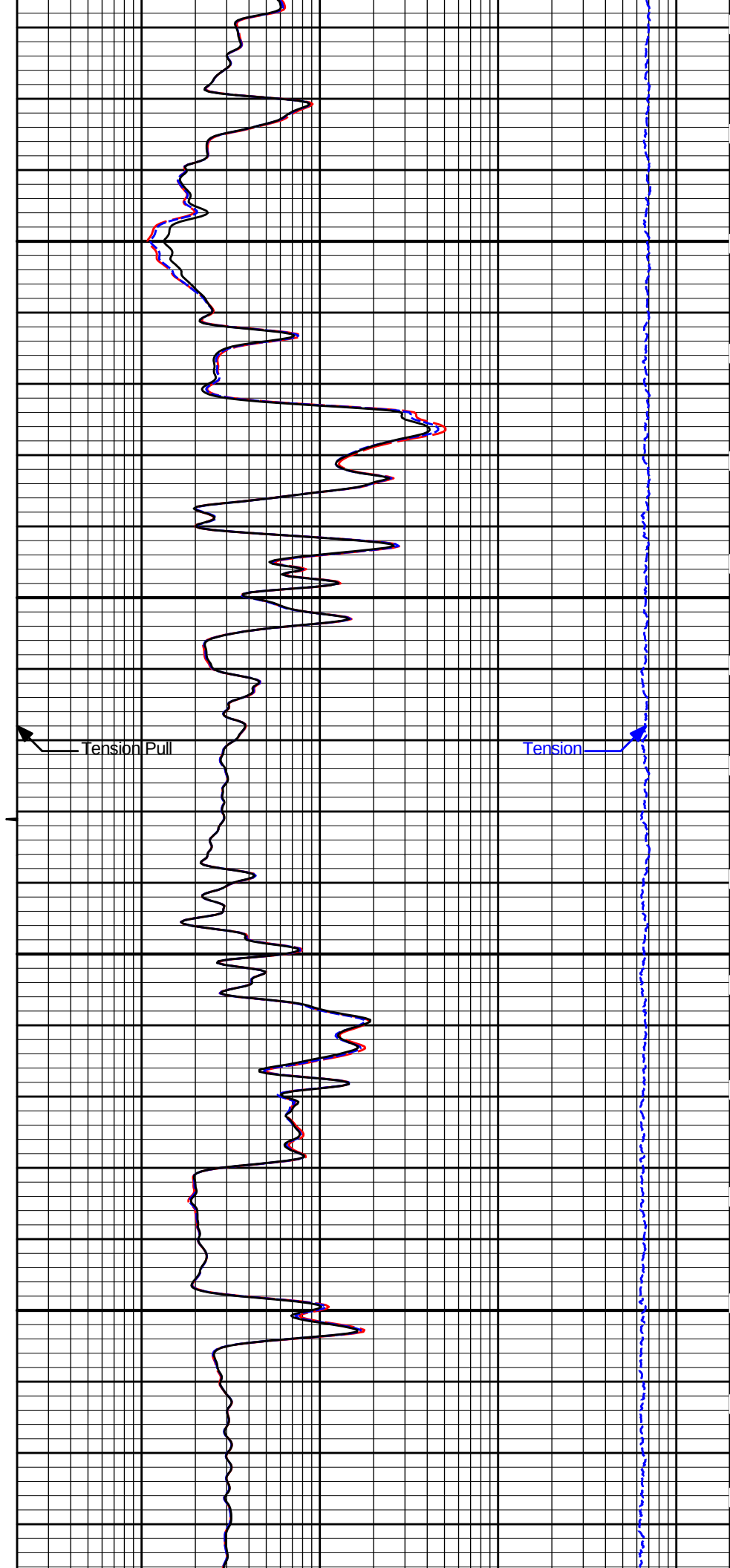


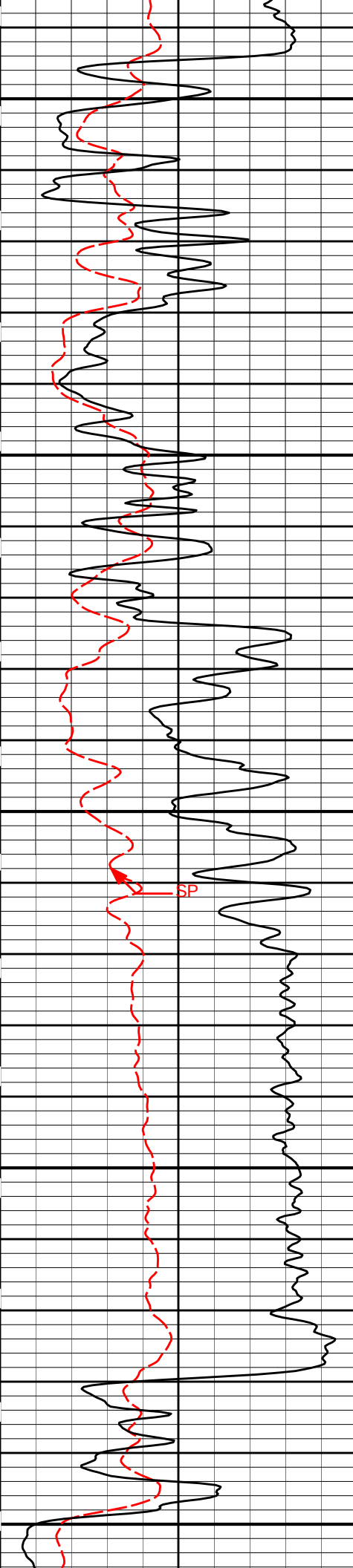
2000

2050

2100

2150





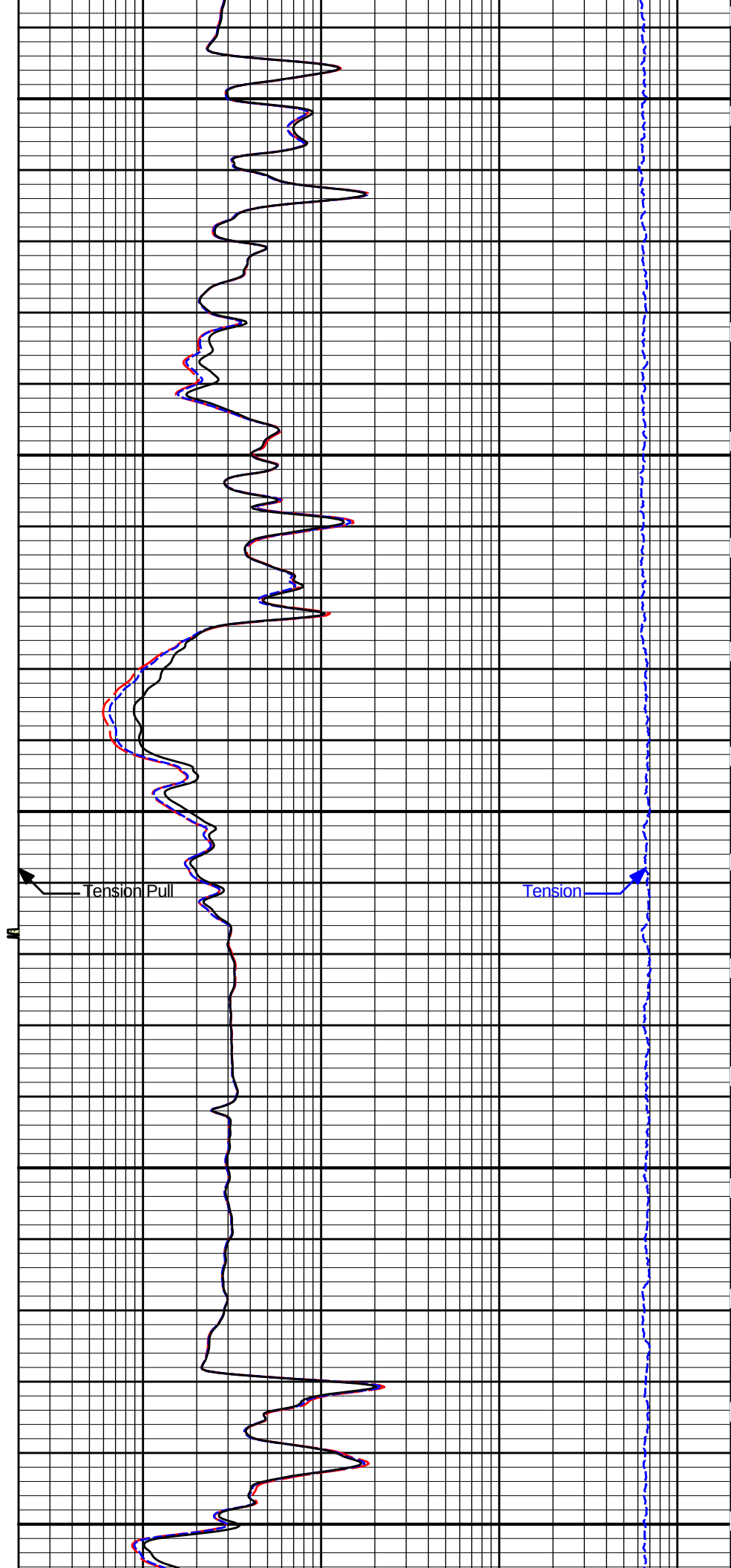
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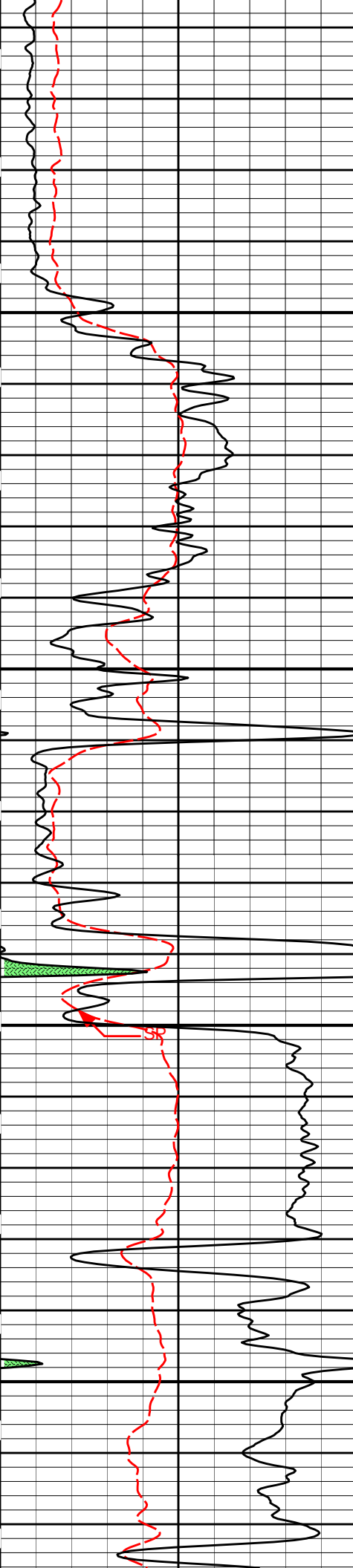
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2300

2350

2400



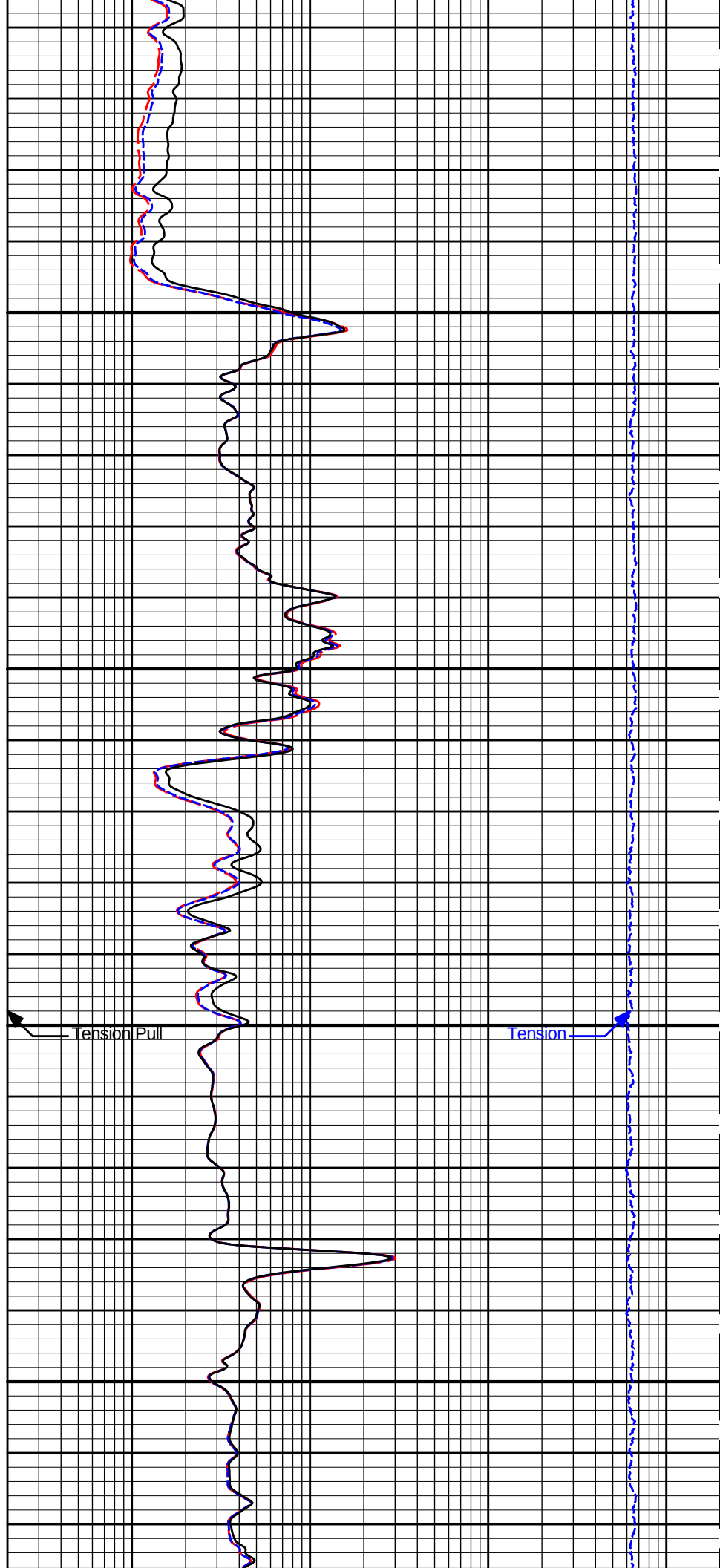


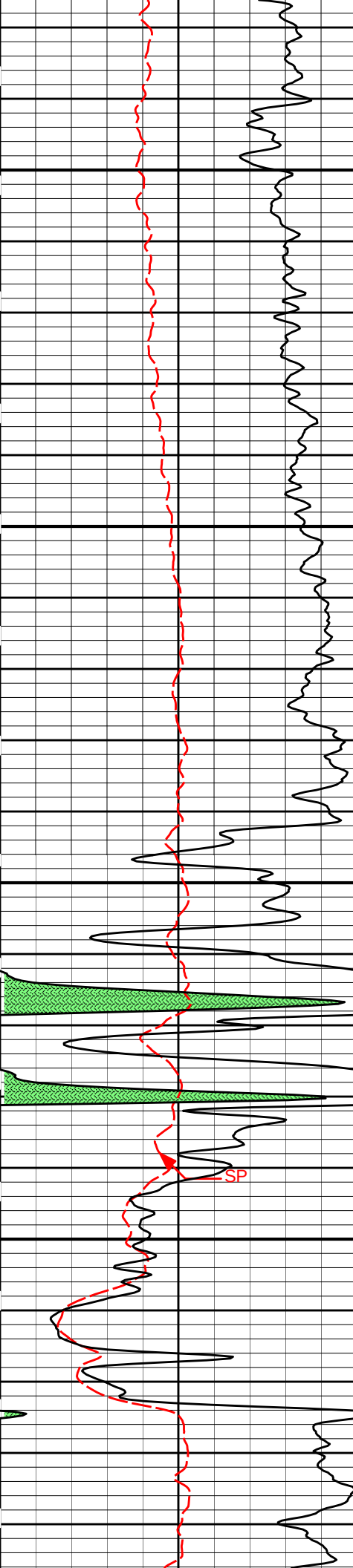
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2550

2600



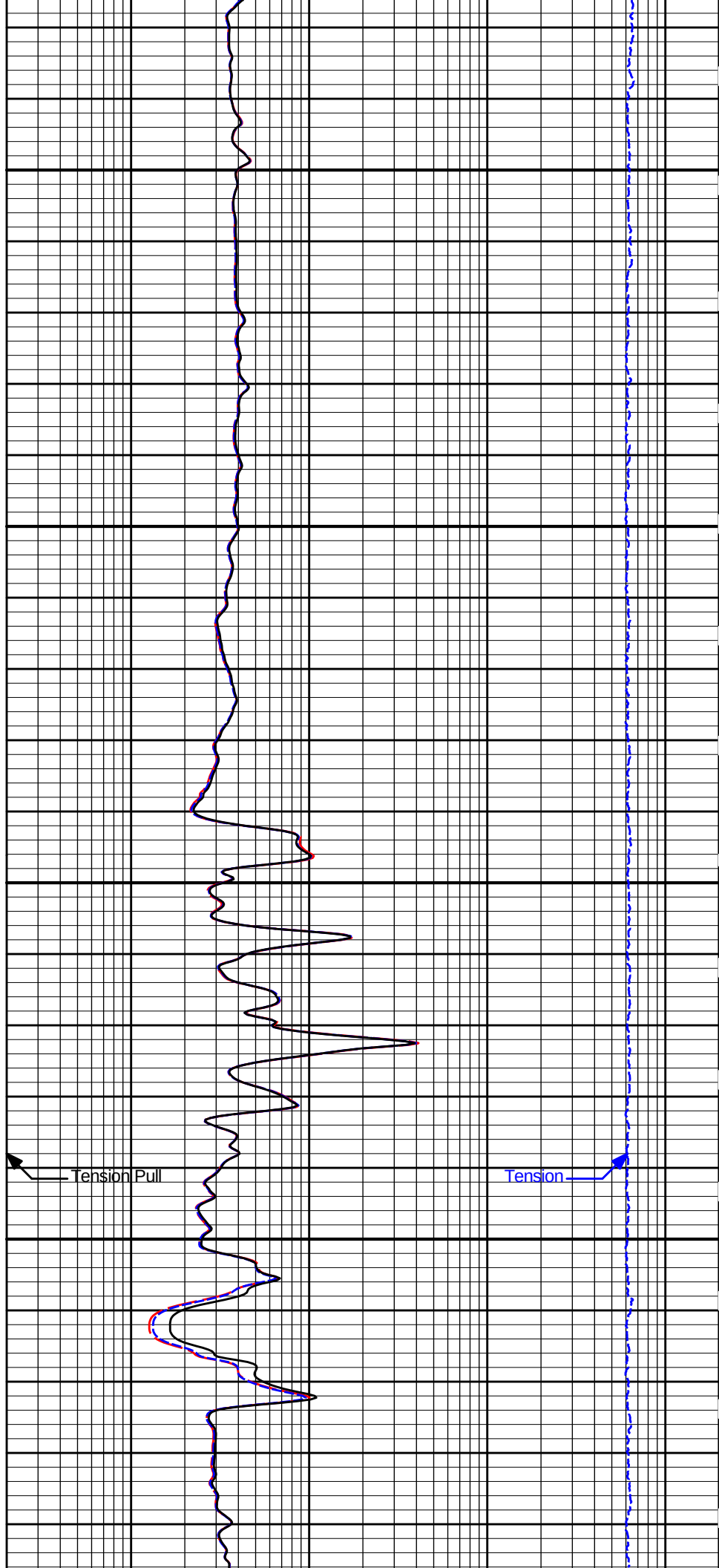


2650

2700

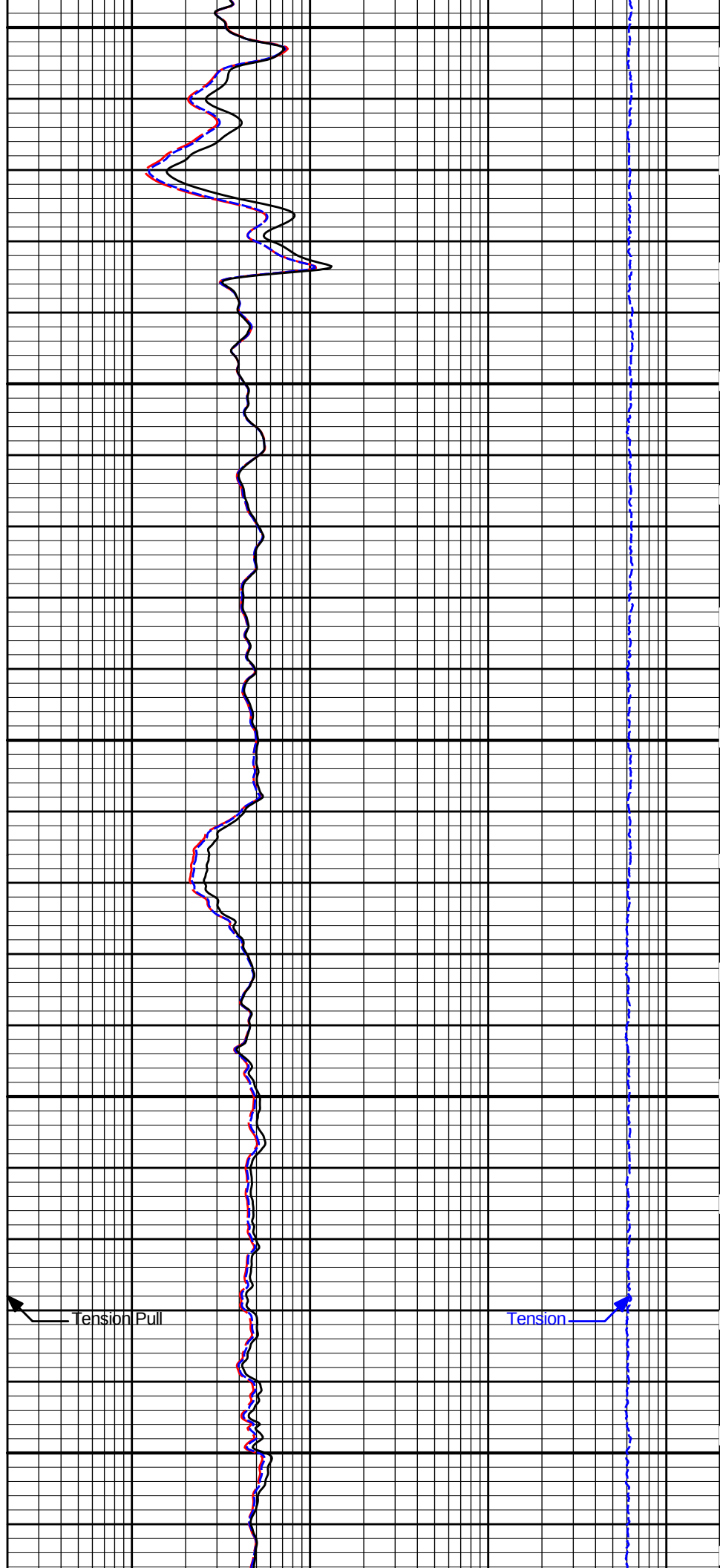
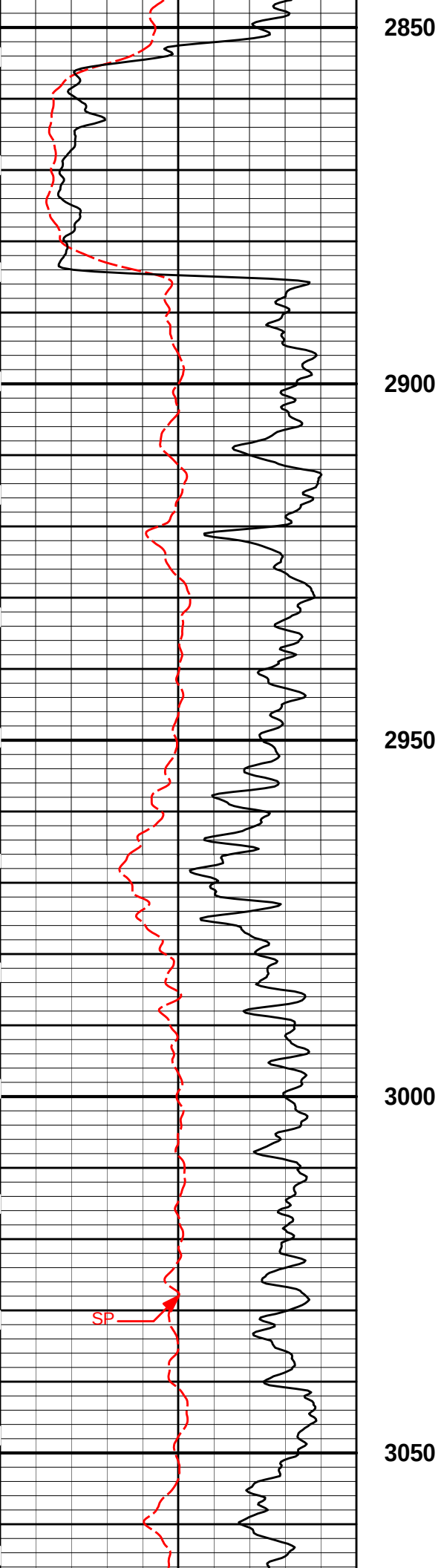
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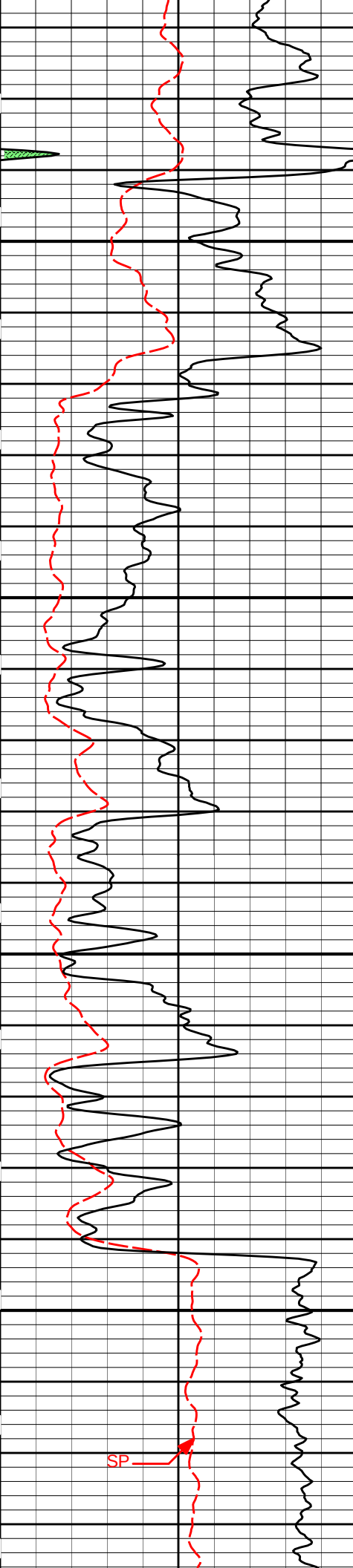
2800



Tension Pull

Tension





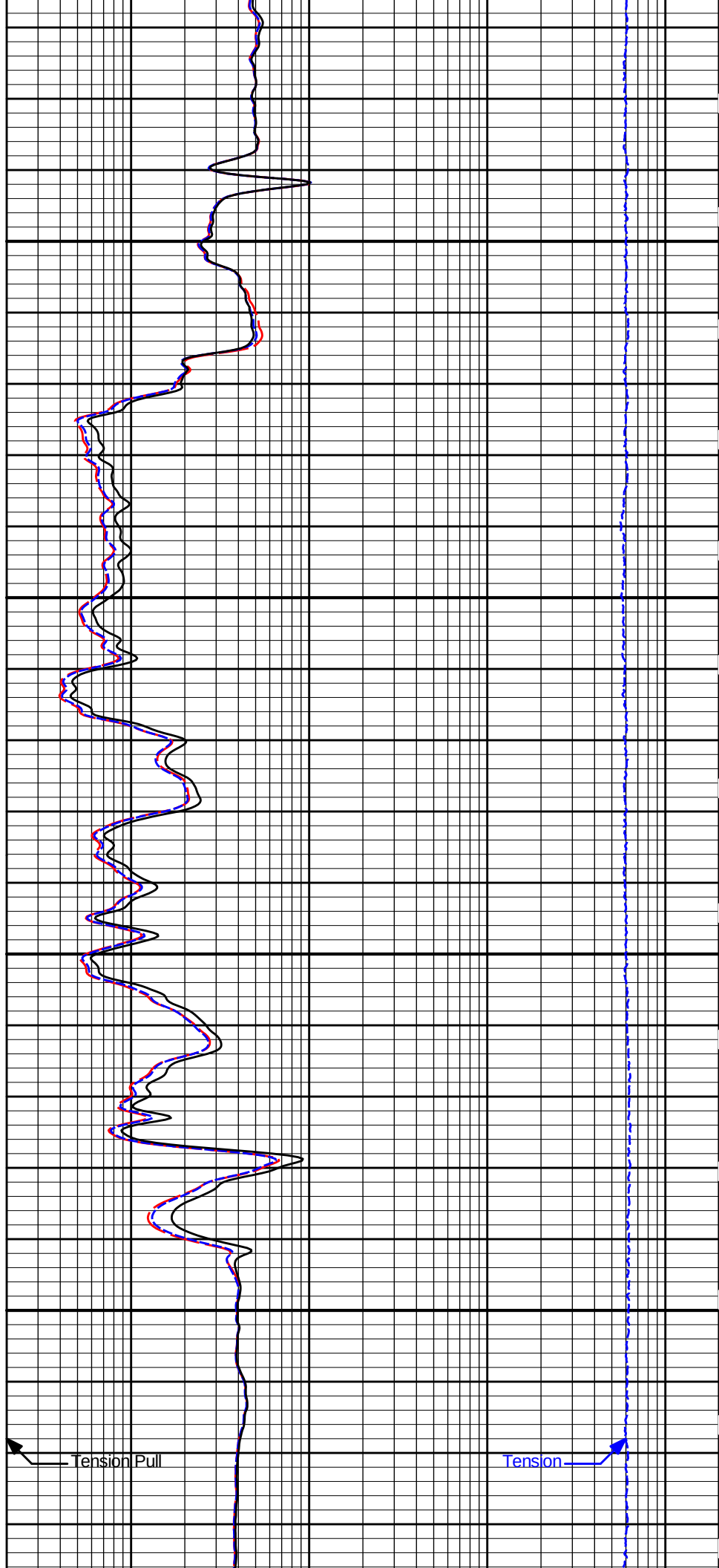
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3150

3200

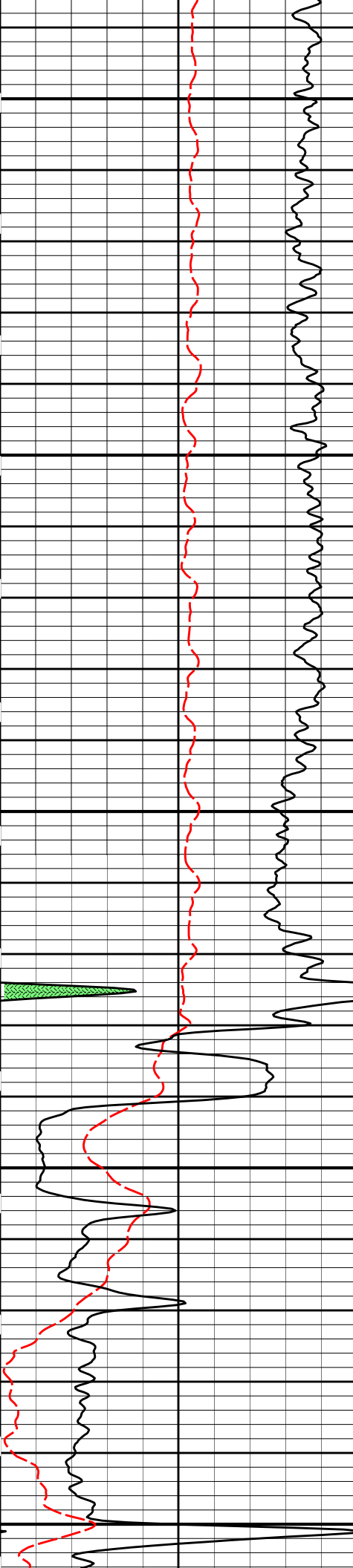
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SP



Tension Pull

Tension



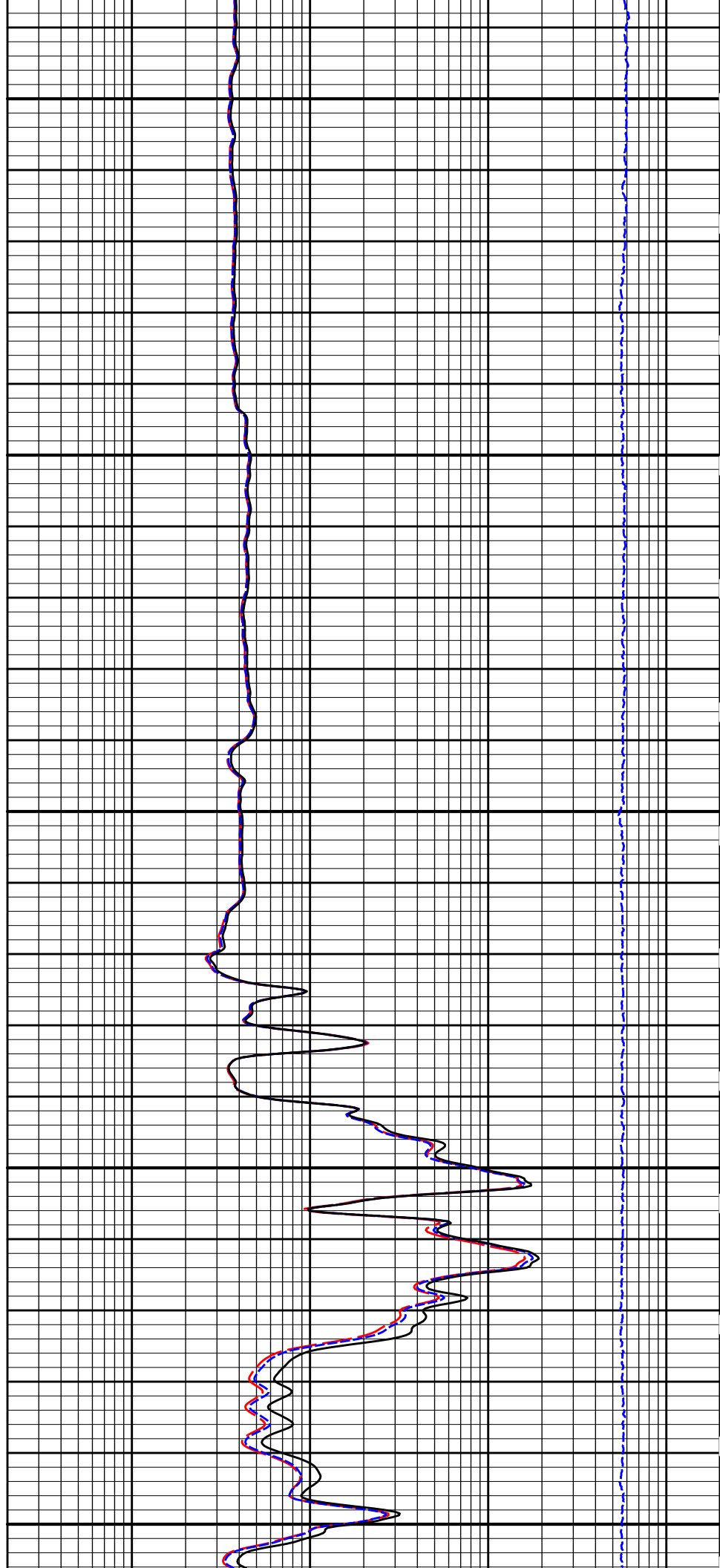
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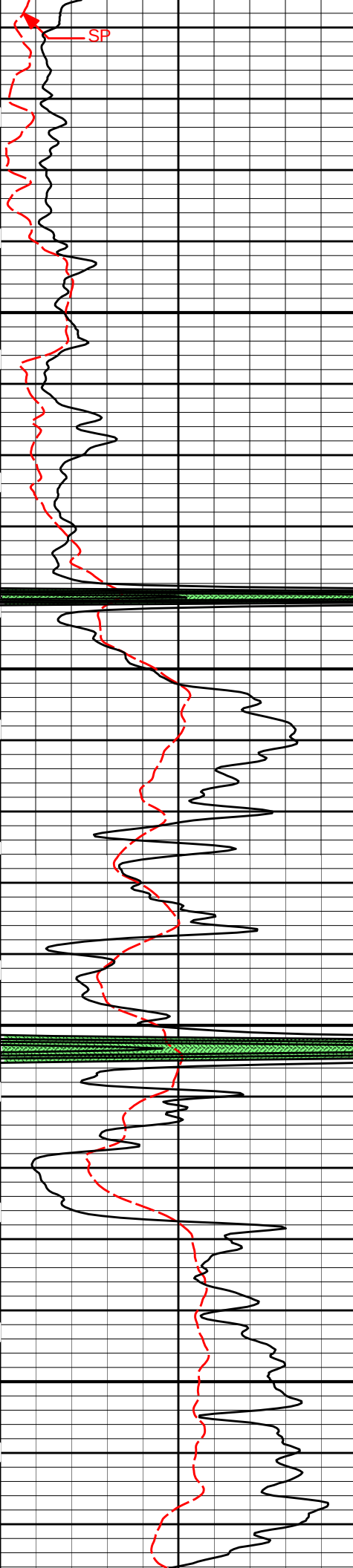
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3400

3450

3500



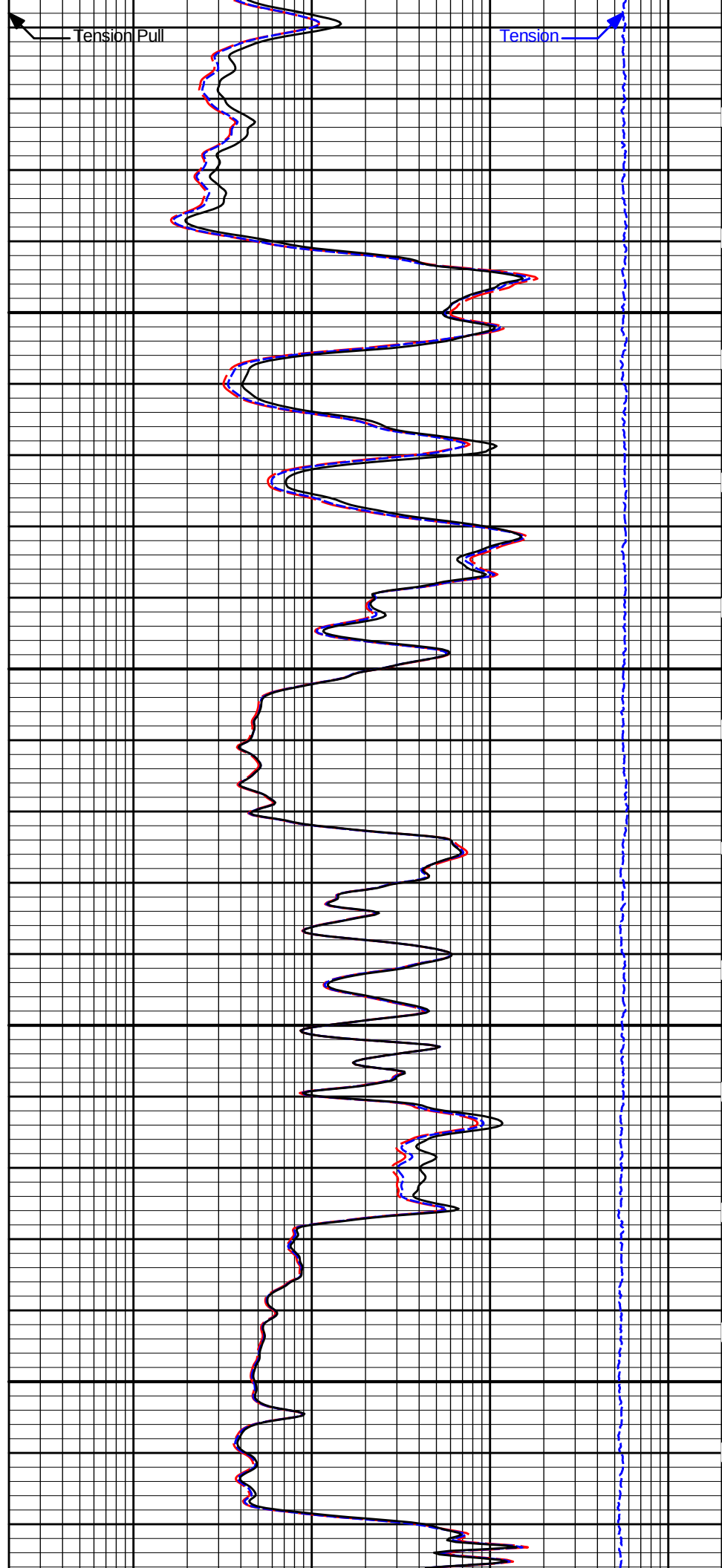


3550

3600

3650

3700



Tension Pull

Tension

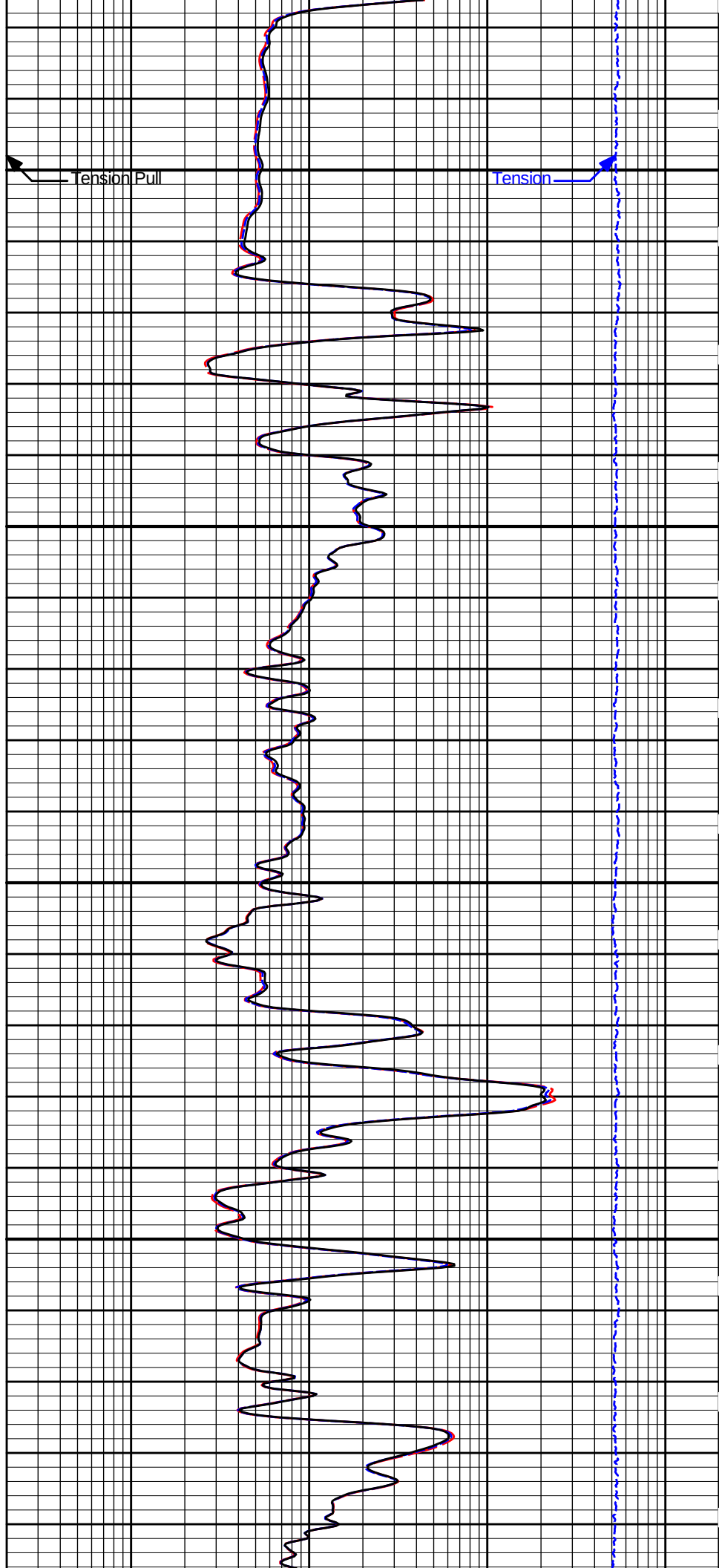


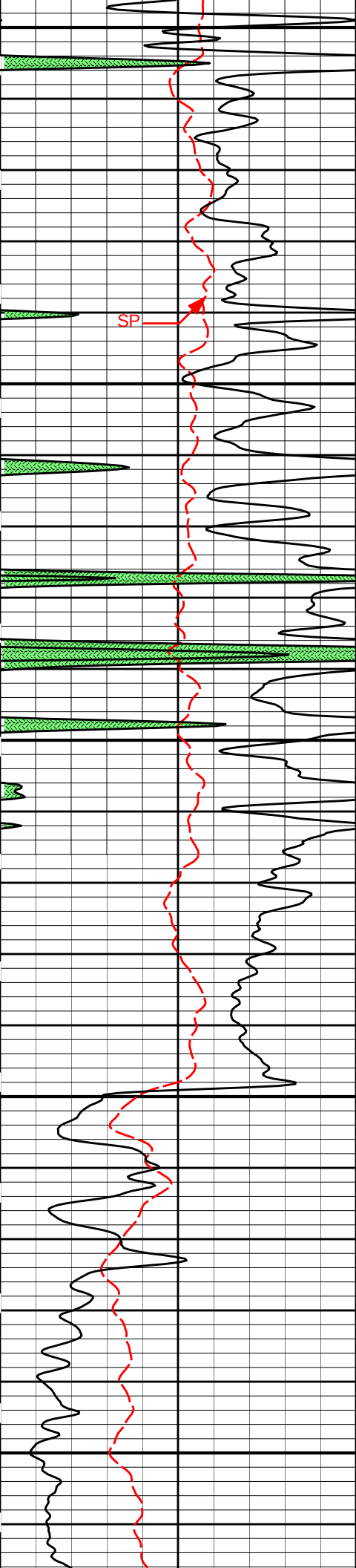
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3800

3850

3900





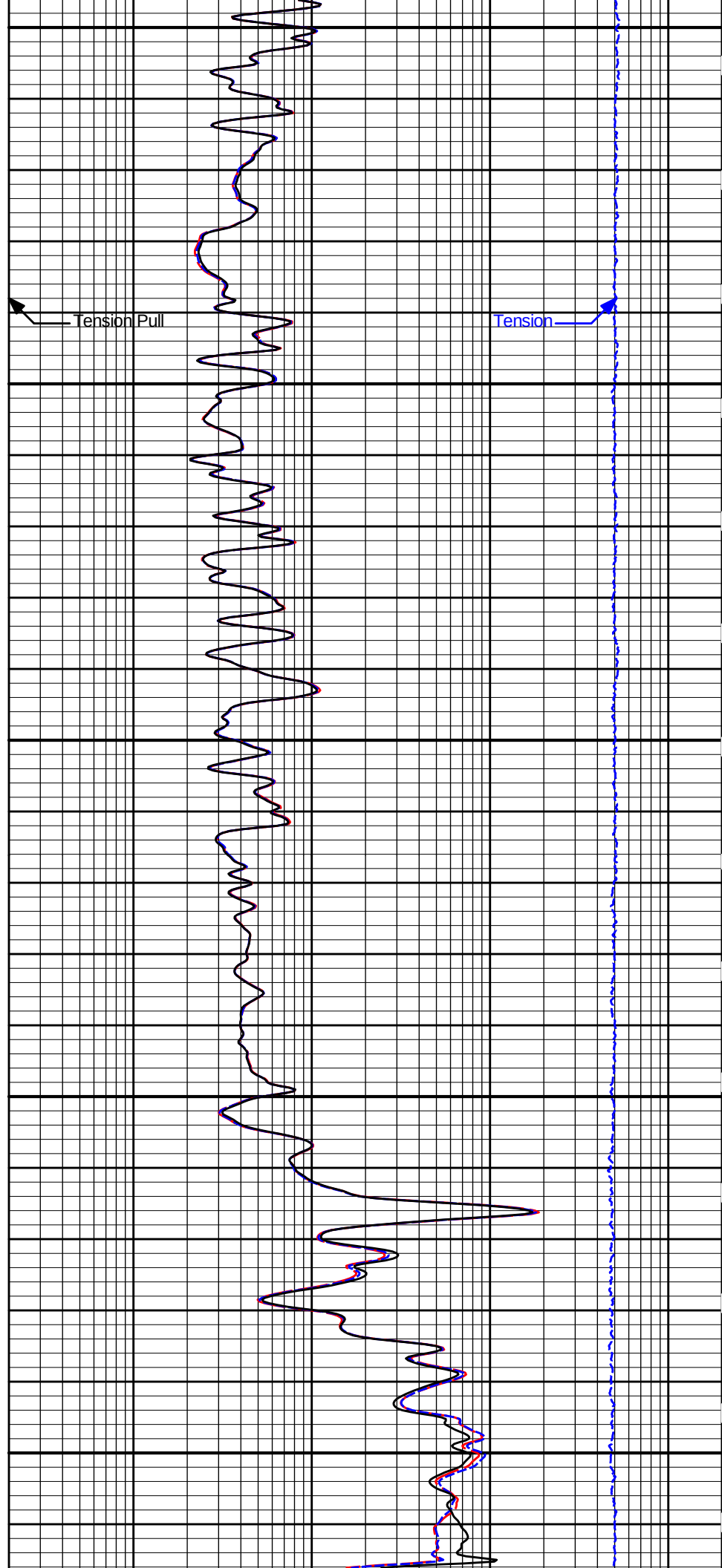
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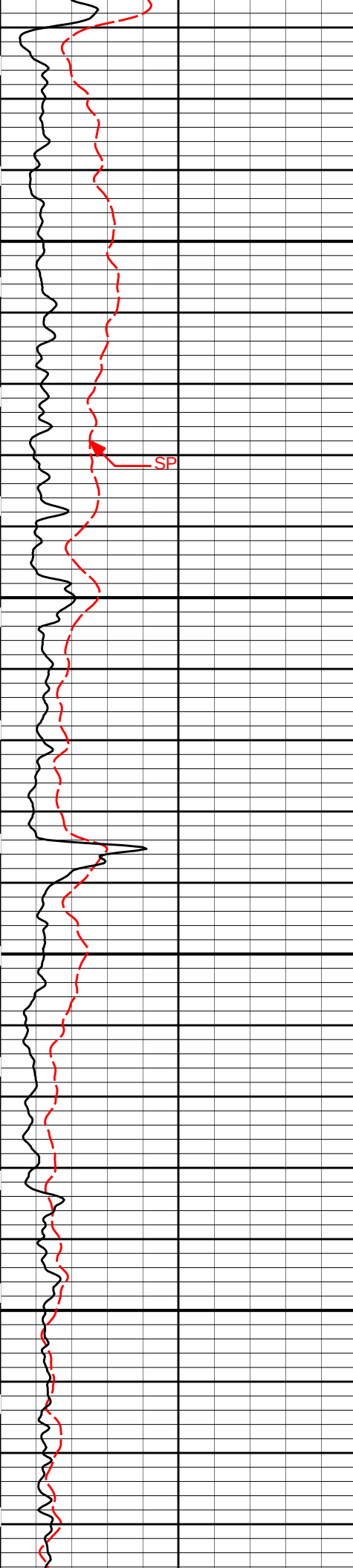
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4050

4100

4150



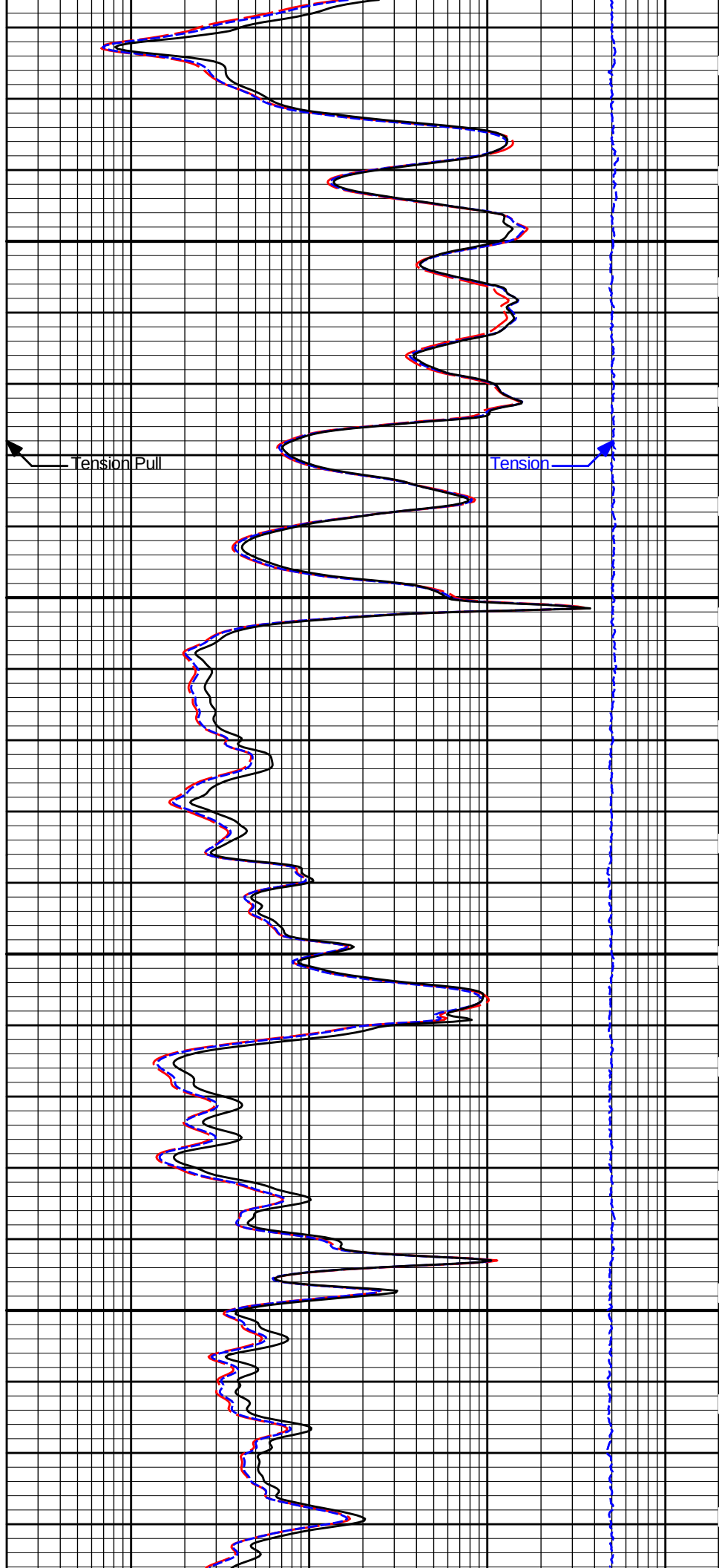


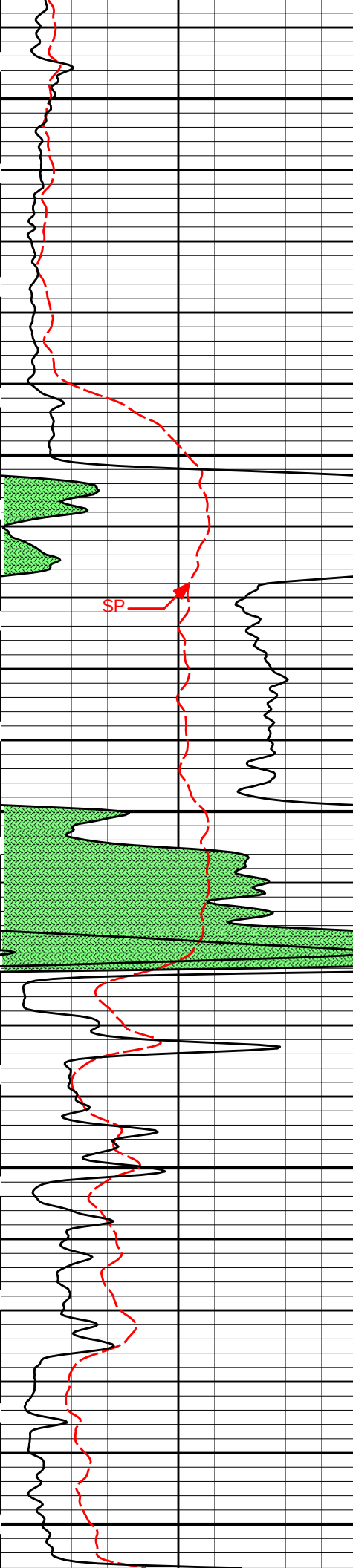
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4250

4300

4350





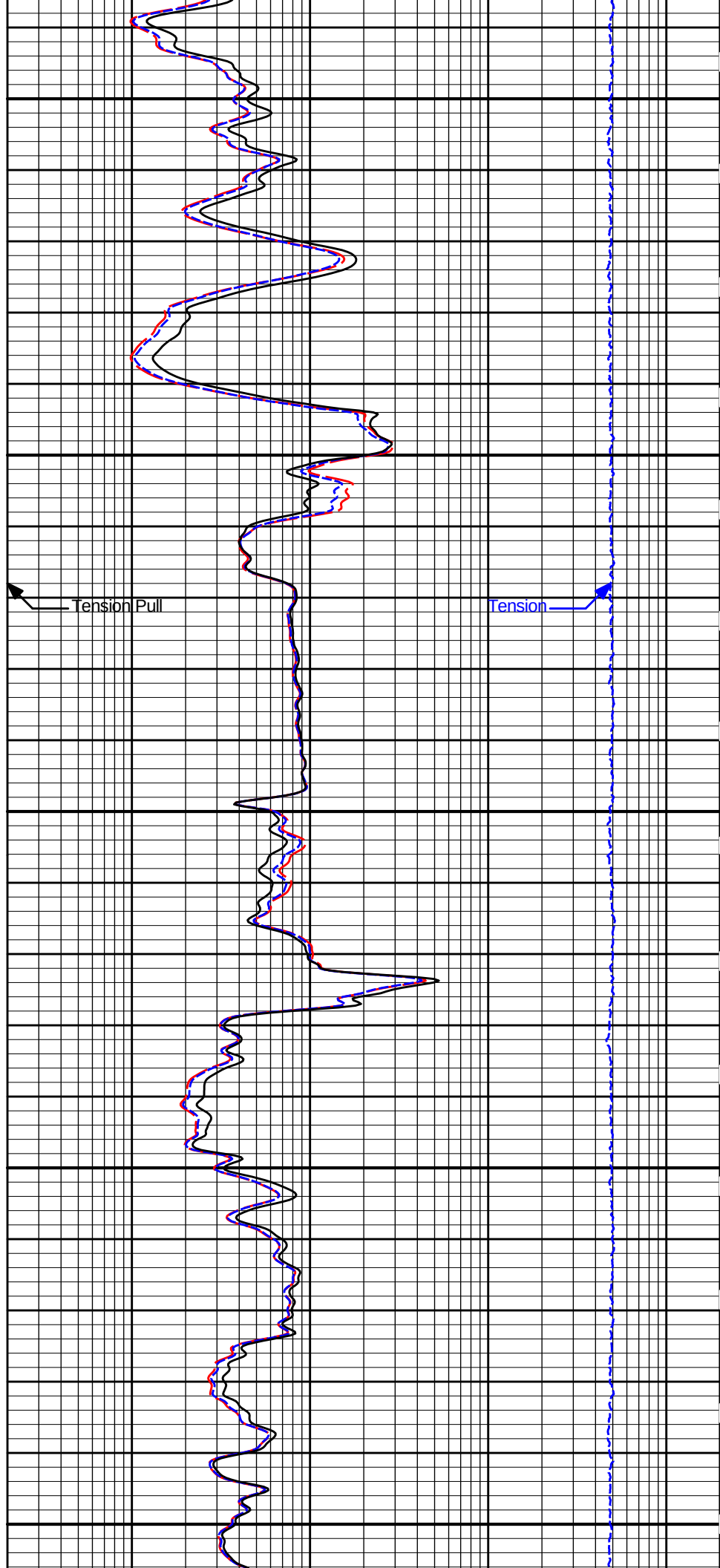
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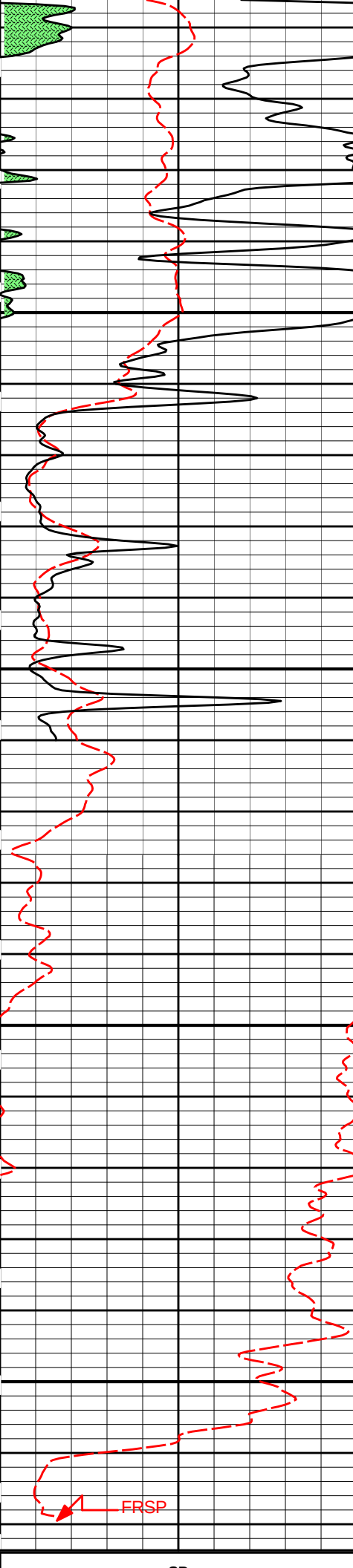
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Tension Pull

Tension



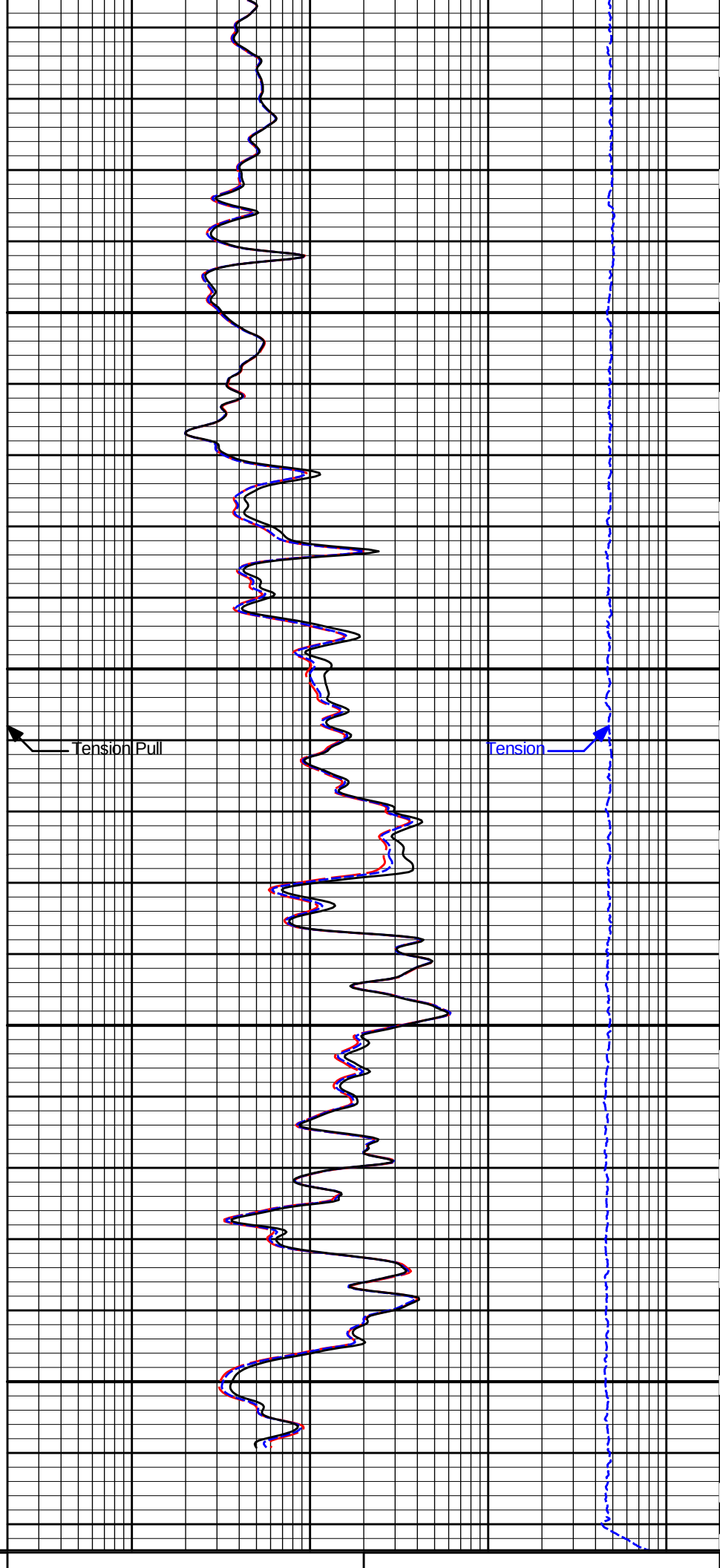
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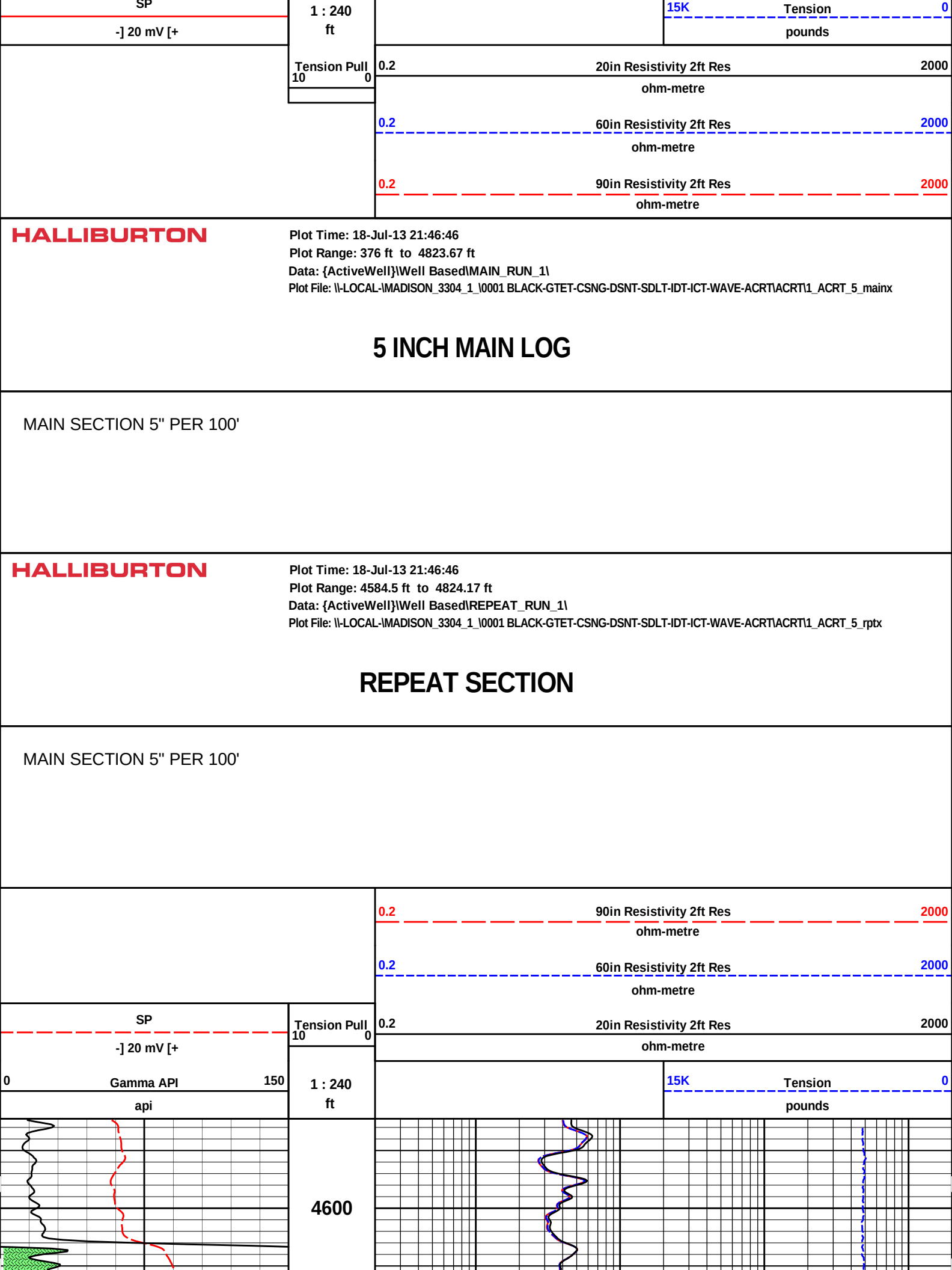
4700

4750

4800

TD







4650

4700

4750

4800

0

Gamma API

150

1 : 240

15K

Tension

0

api	ft		pounds
SP	Tension Pull 10	0.2	20in Resistivity 2ft Res 2000
-] 20 mV [+]			ohm-metre
		0.2	60in Resistivity 2ft Res 2000
			ohm-metre
		0.2	90in Resistivity 2ft Res 2000
			ohm-metre

HALLIBURTON

Plot Time: 18-Jul-13 21:46:48
 Plot Range: 4584.5 ft to 4824.17 ft
 Data: {ActiveWell}\Well Based\REPEAT_RUN_1\
 Plot File: \\LOCAL-IMADISON_3304_1_10001 BLACK-GTET-CSNG-DSNT-SDLT-IDT-ICT-WAVE-ACRT1\ACRT1_ACRT_5_rptx

REPEAT SECTION

MAIN SECTION 5" PER 100'

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	9.300	ppg
	SHARED	WAGT	Weighting Agent	Natural	
	SHARED	BSAL	Borehole salinity	13400.00	ppm
	SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
	SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
	SHARED	RMUD	Mud Resistivity	0.700	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	4825.00	ft
	SHARED	BHT	Bottom Hole Temperature	125.0	degF
	SHARED	SVTM	Navigation and Survey Master Tool	IDT	
	SHARED	AZTM	High Res Z Accelerometer Master Tool	IDT	
	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	
	CSNG	CGOK	Process CSNG Data?	Yes	
	CSNG	CENT	Is Tool Centralized?	No	
	CSNG	GBOK	Gamma Enviromental Corrections?	Yes	
	CSNG	BARF	Barite Correction Factor	1.00	
	CSNG	ORDG	Use Fixed Gain	No	
	CSNG	ORDO	Use Fixed Offset	No	
	CSNG	ORDR	Use Fixed Resolution Degradation Factor	No	
	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	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	
	IDT	WRTI	Survey Writing Interval	30	ft
	IDT	SOPT	Smoothing Option	None	
	ICT	CLOK	Process Caliper Outputs?	Yes	
	ICT	NAVS	Navigation Source Tool	IDT	
	Wavesonic-I	WSOK	Process WSTT?	Yes	
	Wavesonic-I	AFIL	Adaptive Filtering?	No	
	Wavesonic-I	PINT	Process 1 Sample and Skip	0	
	Wavesonic-I	PROM	Process Mode: M=1,MX=2,MY=3,MXY=4	4	
	Wavesonic-I	DTSH	Delta -T Shale	100.00	uspf
	Wavesonic-I	DTMT	Delta -T Matrix Type	Limestone 47.5	
	Wavesonic-I	DTMA	Delta -T Matrix	57.00	uspf
	Wavesonic-I	DTFL	Delta -T Fluid	189.00	uspf
	Wavesonic-I	RHOM	Matrix Density	2.7100	g/cc
	Wavesonic-I	RHOF	Fluid Density	1.0000	g/cc
	Wavesonic-I	SMTH	Semblance Threshold	0.25	
	Wavesonic-I	VPVS	VPVS Ratio for Porosity	1.40	
	Wavesonic-I	APEQ	Acoustic Porosity Equation	Wylie	
	Wavesonic-I	NAVS	Navigation Source Tool	IDT	
	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: MADISON_3304_1_0001 BLACK-GTET-CSNG-DSNT-SDLT-IDT-ICT-WAVE-ACRTI004 18-Jul-13 15:58 Up @4823.8f			Date: 18-Jul-13 16:37:46	

HALLIBURTON									
CALIBRATION REPORT									
NATURAL GAMMA RAY TOOL SHOP CALIBRATION									
Tool Name:		GTET - 11013114				Reference Calibration Date:		28-Feb-13 09:55:36	
Engineer:		JEREMY COTHREN				Calibration Date:		14-Jun-13 12:58:03	
Software Version:		WL INSITE R3.6.0 (Build 3)				Calibration Version:		1	
Calibrator Source S/N: 150									
Calibrator API Reference:225.00 api									
Equivalent Calibrator API Reference:228.9 api									
		Measurement		Measured		Calibrated		Units	
		Background		23.9		23.9		api	
		Background + Calibrator		253.5		252.8		api	
		Calibrator		229.5		228.9		api	
NATURAL GAMMA RAY TOOL FIELD CALIBRATION									
Tool Name:		GTET - 11013114				Reference Calibration Date:		14-Jun-13 12:58:03	
Engineer:		JEREMY COTHREN				Calibration Date:		16-Jun-13 18:44:40	
Software Version:		WL INSITE R3.6.0 (Build 3)				Calibration Version:		1	
Calibrator Source S/N: 150									
Calibrator API Reference:225.00 api									
Equivalent Calibrator API Reference:228.9 api									
		Field Verification		Shop		Field		Units	
		Background		23.9		22.7		api	
		Background + Calibrator		252.8		250.4		api	
		Calibrator		228.9		227.7		api	
		Shop		Field		Difference		Tolerance	
		228.9		227.7		1.2		+/- 9.00	
ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION									
Tool Name:		ACRt Sonde - 90144321-e989-s				Reference Calibration Date:		26-Nov-12 11:33:47	
Engineer:		JEREMY COTHREN				Calibration Date:		14-Jun-13 12:50:34	
Software Version:		WL INSITE R3.6.0 (Build 3)				Calibration Version:		1	
Host Tool Name:		ACRt Instrument - 989							
TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.00	1.05	0.95	1.01	1.05	0.95	1.01	1.05

A2 (50")	0.95	1.03	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A3 (29")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A4 (17")	0.95	1.00	1.05	0.95	1.00	1.05	0.95	0.99	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.99	1.05	0.95	0.99	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.98	1.05	0.95	0.98	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	-0.31	2	-6	-3.18	-2	-8	-5.09	-2
A2 (50")	-7	-1.59	0	-7	-4.02	0	-7	-4.42	0
A3 (29")	-27	-12.33	-9	-9	-3.22	-3	-7	-3.23	-1
A4 (17")	-180	-101.71	-60	-45	-31.65	-15	-39	-24.15	-13
A5 (10")	N/A	N/A	N/A	-150	-91.85	-50	-80	-43.88	-10
A6 (6")	N/A	N/A	N/A	175	323.02	525	90	164.41	270

TRANSMITTER CURRENT GAIN					R-MUD VERIFICATION			
Signal	Lower	R	Upper		Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.92	1.3		Mud Cell	0.95	1.00	1.05
36K	1.0	1.41	2.0					
72K	1.0	1.66	2.0					

PASS/FAIL SUMMARY	
GAIN RANGE CHK	PASS
SONDE OFFSET RANGE CHK	PASS
Tx CURRENT GAIN	PASS
Rmud VERIFICATION	PASS

TOOL OK TO LOG

CALIBRATION SUMMARY						
Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11013114						
Gamma Ray Calibrator	228.9	227.7	-----	1.2	+/- 9.00	api
ACRt Sonde-90144321-e989-s						
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m
Data: MADISON_3304_1_0001 BLACK-GTET-CSNG-DSNT-SDLT-IDT-ICT-WAVE-ACRT004				18-Jul-13 15:58 Up @4823.8f		
				Date: 18-Jul-13 16:42:24		

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-590_RED 37.50 lbs		Ø 2.750 in →		← Temperature @ 121.55 ft	3.03 ft	122.58 ft
XODH-001 20.00 lbs		Ø 2.750 in Ø 3.625 in →			0.88 ft	119.55 ft
						118.67 ft

GTET-11013114
165.00 lbs

Ø 3.625 in →

8.52 ft

← GammaRay @ 112.61 ft

110.15 ft

CSNG-10736164
114.00 lbs

UnivWearRing3.6-
10736164
5.00 lbs

Ø 4.200 in*
Ø 3.625 in →

8.17 ft

← CSNG @ 104.53 ft

101.99 ft

DSNT-10993115
174.00 lbs

DSN Decentralizer-
10993115
6.60 lbs

Ø 5.000 in*
Ø 3.625 in →

9.69 ft

← DSN Far @ 95.05 ft
← DSN Near @ 94.30 ft

92.30 ft

SDLT-10960494
360.00 lbs

SDLT Pad-10865873
65.00 lbs
Microlog Pad-I15M94P73
8.00 lbs

Ø 4.500 in →
Ø 4.750 in*
Ø 4.750 in* →

10.81 ft

Microlog @ 84.49 ft
SDL Caliper @ 84.30 ft
SDL @ 84.29 ft

81.49 ft

IQ Flex-BLACK
140.00 lbs

Ø 3.625 in →

5.67 ft

75.82 ft

IDT-10886210
150.00 lbs

Ø 3.625 in →

7.58 ft

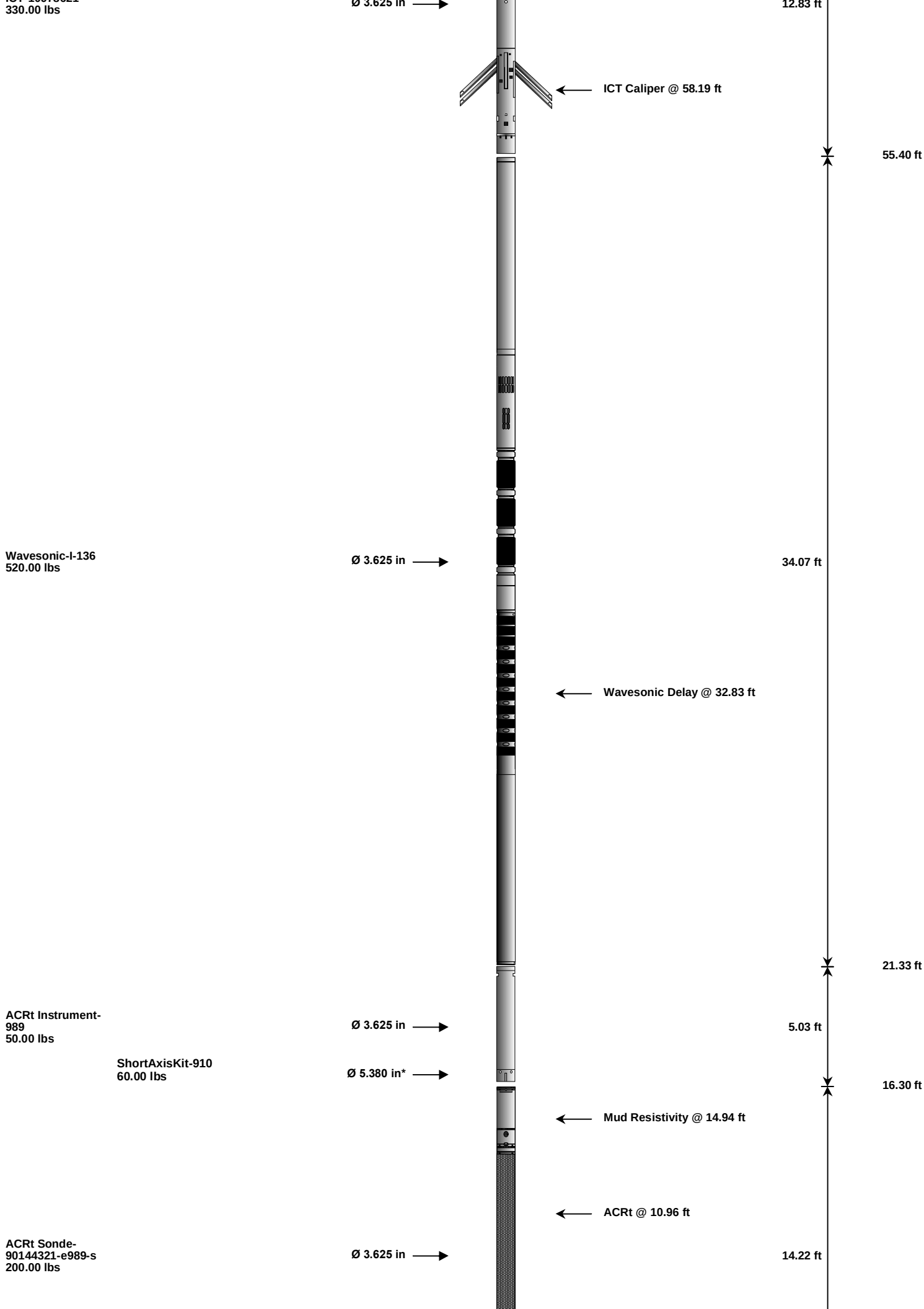
68.23 ft

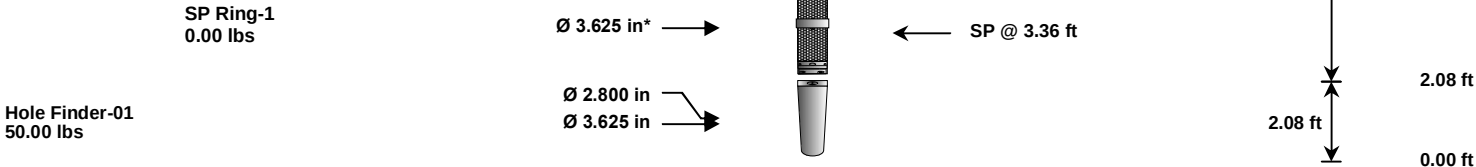
ICT-10978621

Ø 3.625 in →

10.81 ft

58.23 ft





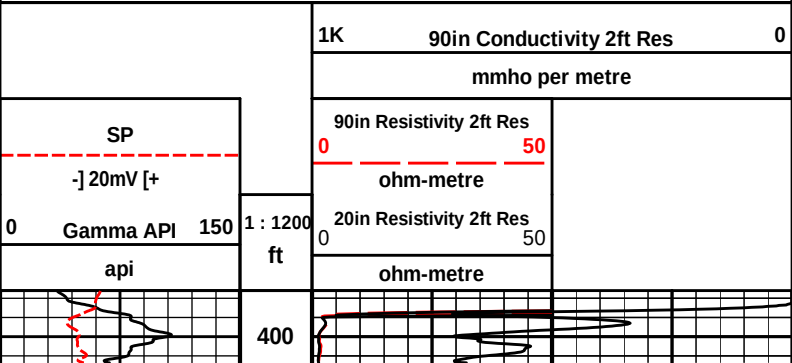
Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
CH_HOS	Hostile Cable Head with Load Cell	590_RED	37.50	3.03	119.55	300.00
XODH	Dits to Hostile Cross Over	001	20.00	0.88	118.67	300.00
GTET	Gamma Telemetry Tool	11013114	165.00	8.52	110.15	60.00
CSNG	Compensated Spectral Natural Gamma	10736164	114.00	8.17	101.99	15.00
UWR3P6	Universal Wear Ring 3 5-8 inch	10736164	5.00	0.35	* 106.07	300.00
DSNT	Dual Spaced Neutron	10993115	174.00	9.69	92.30	60.00
DCNT	DSN Decentralizer	10993115	6.60	5.13	* 95.63	300.00
SDLT	Spectral Density Tool	10960494	360.00	10.81	81.49	60.00
SDLP	Density Insite Pad	10865873	65.00	2.55	* 83.70	60.00
MICP	Microlog Pad	I15M94P73	8.00	1.00	* 83.99	60.00
IQF	IQ Flex tool	BLACK	140.00	5.67	75.82	300.00
IDT	Insite Directional Tool	10886210	150.00	7.58	68.23	30.00
ICT	Six Independent Arm Caliper	10978621	330.00	12.83	55.40	30.00
WSTT	WaveSonic Insite	136	520.00	34.07	21.33	30.00
ACRT	Array Compensated True Resistivity Instrument Section	989	50.00	5.03	16.30	300.00
SAK	Short Axis Kit for logging short axis of a borehole.	910	60.00	1.02	* 16.30	300.00
ACRT	Array Compensated True Resistivity Sonde Section	90144321-e989-s	200.00	14.22	2.08	300.00
SP	SP Ring	1	0.00	0.25	* 3.36	300.00
HFND	Hole Finder	01	50.00	2.08	0.00	300.00

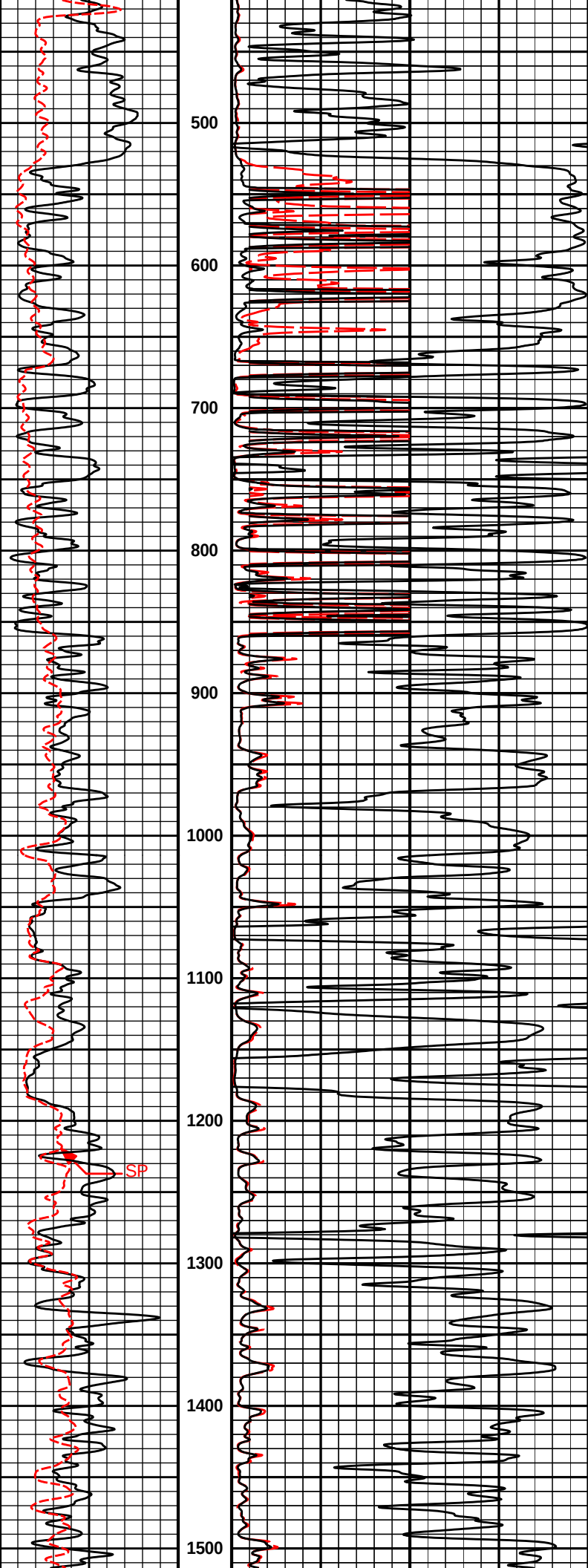
Total	2,455.10	122.58	* Not included in Total Length and Length Accumulation.
Data: MADISON_3304_1_0001 BLACK-GTET-CSNG-DSNT-SDLT-IDT-ICT-WAVE-ACRT>IDLE		Date: 18-Jul-13 14:54:23	

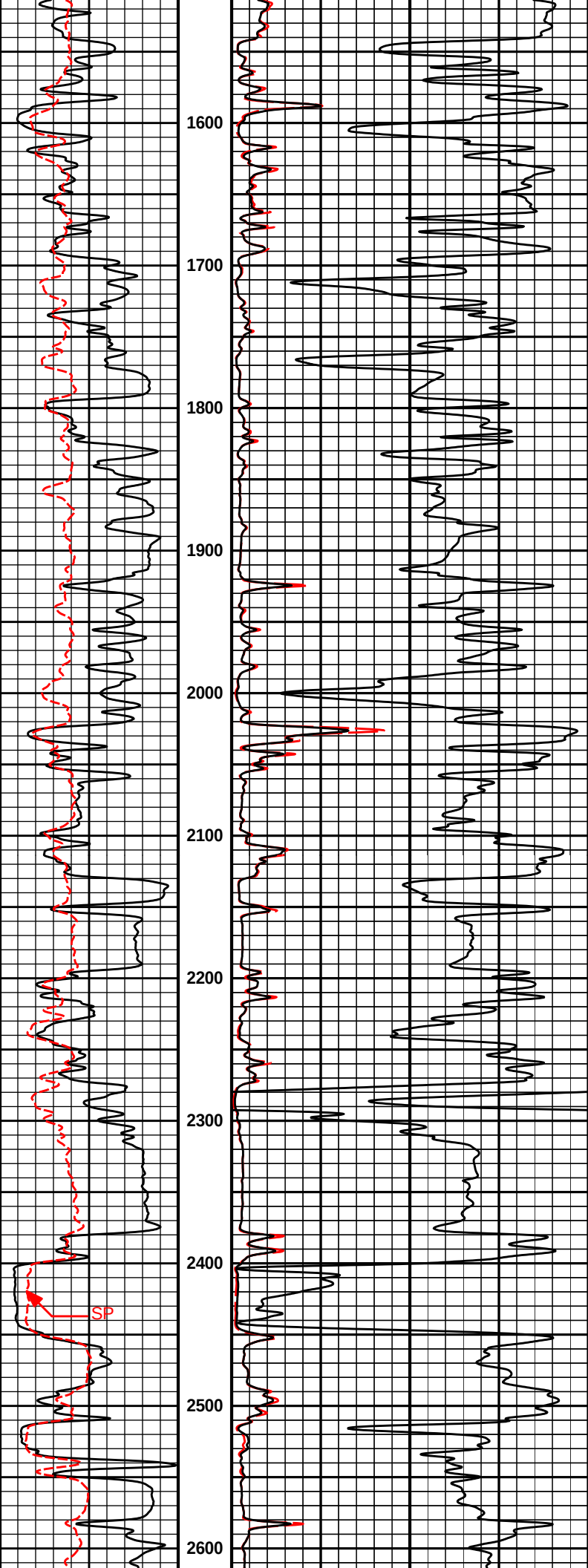
HALLIBURTON
Plot Time: 18-Jul-13 21:46:49
Plot Range: 376 ft to 4819.5 ft
{ActiveWell}\Well Basedl...l...
Plot File: \\-LOCAL-l...l1_ACRT_1inx

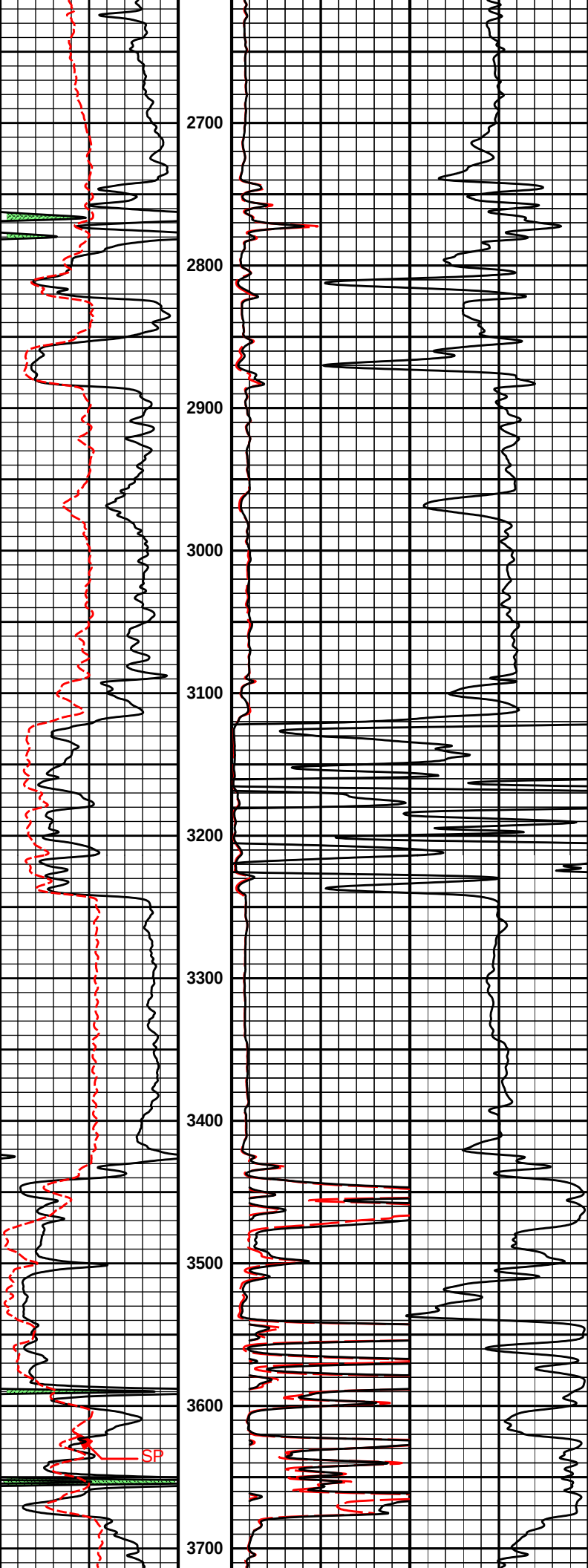
1 INCH MAIN LOG

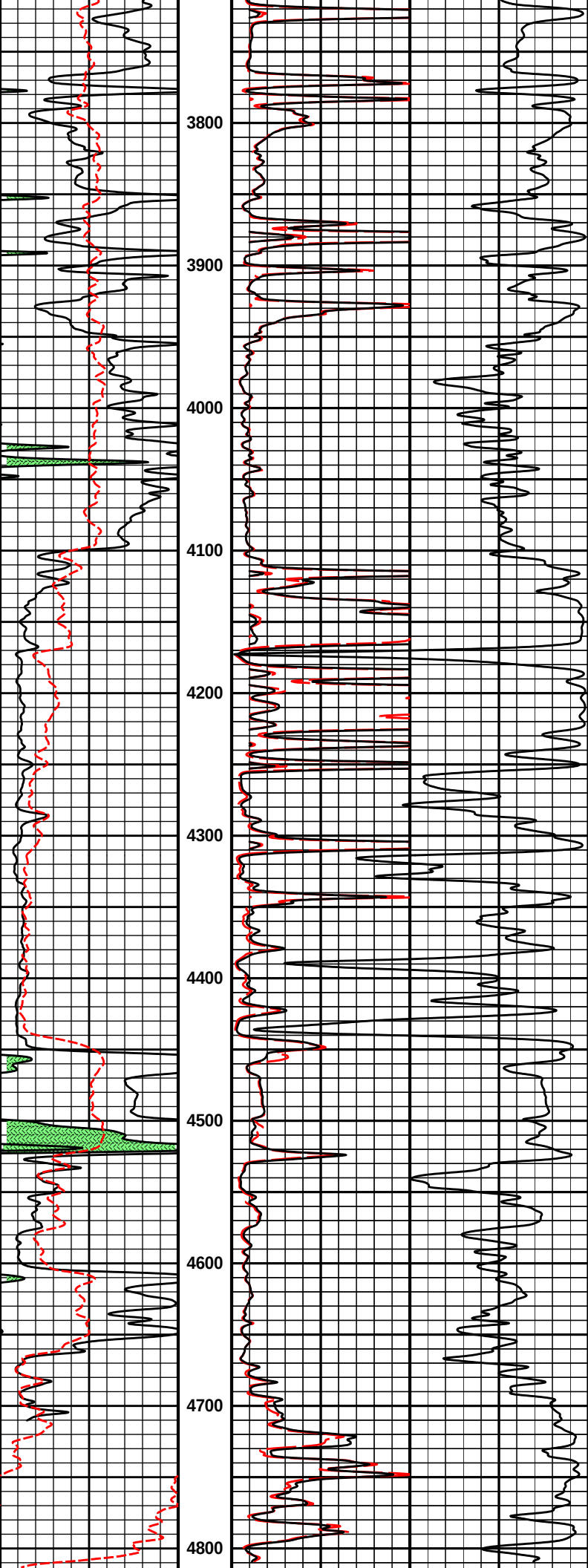
1 INCH MAIN LOG











0	Gamma API	150	1 : 1200	0	20in Resistivity 2ft Res	50	
	api		ft		ohm-metre		
	SP				90in Resistivity 2ft Res	50	
	-] 20mV [+]				ohm-metre		
				1K	90in Conductivity 2ft Res	0	
					mmho per metre		
HALLIBURTON				Plot Time: 18-Jul-13 21:46:51 Plot Range: 376 ft to 4819.5 ft {ActiveWell}\Well Basedl...\n... Plot File: \\-LOCAL-l...\l1_ACRT_1inx			
1 INCH MAIN LOG							
1 INCH MAIN LOG							

COMPANY	SANDRIDGE				
WELL	MADISON SWD 3304 1-24				
FIELD	NA				
COUNTY	SUMNER	STATE	KANSAS		
HALLIBURTON			ARRAY COMPENSATED TRUE RESISTIVITY LOG		