

HALLIBURTON

ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

LEBSACK OIL PRODUCTION INC				BENSCH #4				GROVE				RICE				KANSAS			
COMPANY				LEBSACK OIL PRODUCTION INC				WELL				BENSCH #4				FIELD/BLOCK			
WELL				COUNTY				RICE				STATE				COUNTY			
API No.				15-159-22830-00-00				Location				(SHL) 3420' FNL & 330' FEL				N2-SE-NE-SE			
Permanent Datum				GL				Elev. 1718.0 ft				Log measured from				KB			
Drilling measured from				KB				11.0 ft above perm. Datum				KB				Elev. 1729.0 ft			
Date				29-Apr-16				Elev. 1718.0 ft				D.F.				1729.0 ft			
Run No.				ONE				Elev. 1718.0 ft				D.F.				1729.0 ft			
Depth - Driller				3320.0 ft				Elev. 1718.0 ft				D.F.				1729.0 ft			
Depth - Logger				3216.0 ft				Elev. 1718.0 ft				D.F.				1729.0 ft			
Bottom - Logged Interval				3207.00 ft				Elev. 1718.0 ft				D.F.				1729.0 ft			
Top - Logged Interval				265.00 ft				Elev. 1718.0 ft				D.F.				1729.0 ft			
Casing - Driller				8.625 in				Elev. 1718.0 ft				D.F.				1729.0 ft			
Casing - Logger				265.0 ft				Elev. 1718.0 ft				D.F.				1729.0 ft			
Bit Size				7.875 in				Elev. 1718.0 ft				D.F.				1729.0 ft			
Type Fluid in Hole				Water Based Mud				Elev. 1718.0 ft				D.F.				1729.0 ft			
Density				8.7 ppg				Elev. 1718.0 ft				D.F.				1729.0 ft			
PH				10.00 pH				Elev. 1718.0 ft				D.F.				1729.0 ft			
Source of Sample				MUDPIT				Elev. 1718.0 ft				D.F.				1729.0 ft			
Rm @ Meas. Temperature				0.77 ohmm				Elev. 1718.0 ft				D.F.				1729.0 ft			
Rmf @ Meas. Temperature				0.58 ohmm				Elev. 1718.0 ft				D.F.				1729.0 ft			
Rmc @ Meas. Temperature				0.92 ohmm				Elev. 1718.0 ft				D.F.				1729.0 ft			
Source Rmf				MEASURED				Elev. 1718.0 ft				D.F.				1729.0 ft			
Rm @ BHT				0.53 ohmm				Elev. 1718.0 ft				D.F.				1729.0 ft			
Time Since Circulation				5.0 hr				Elev. 1718.0 ft				D.F.				1729.0 ft			
Time on Bottom				29-Apr-16 02:30				Elev. 1718.0 ft				D.F.				1729.0 ft			
Max. Rec. Temperature				113.00 degF				Elev. 1718.0 ft				D.F.				1729.0 ft			
Equipment				12156883				Elev. 1718.0 ft				D.F.				1729.0 ft			
Recorded By				JORGE ORLANDO PEREZ				Elev. 1718.0 ft				D.F.				1729.0 ft			
Witnessed By				JOSH AUSTIN				Elev. 1718.0 ft				D.F.				1729.0 ft			

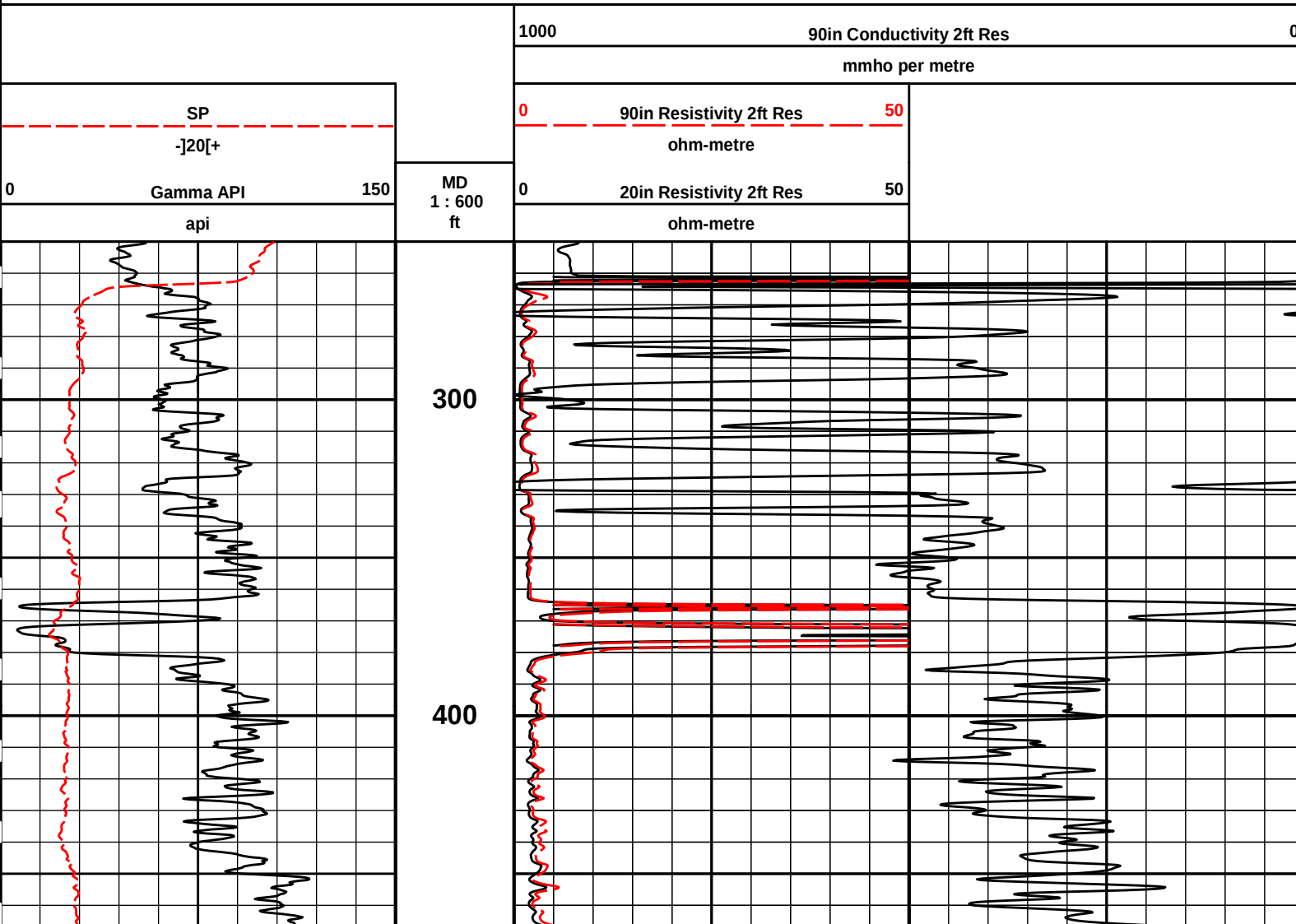
Service Ticket No.: 903276711						API No.: 15-159-22830-00-00						PGM Version: WL INSITE R5.0.0 (Build 4)													
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE												RESISTIVITY SCALE CHANGES													
Date		Sample No.										Type Log		Depth		Scale Up Hole				Scale Down Hole					
Depth-Driller																									
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.				@				@						I-11055059											
Source Rmf		Rmc												S-11038385											
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.		11021139				Serial No.						Serial No.		10951315				Serial No.		11019641					
Model No.		GTET				Model No.						Model No.		SDLT				Model No.		DSNT					
Diameter		3.625"				No. of Cent.						Diameter		5.3" 5.3"				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.		5577GW				Serial No.		DSN-373					
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		Matrix		Scale		Matrix		Scale		Matrix							
No.		From		To		ft/min		L				R				L				R		L		R	
ONE		TD		CSG		REC		0		150				30		10		2.71 gr/cc		30		10		TIME	

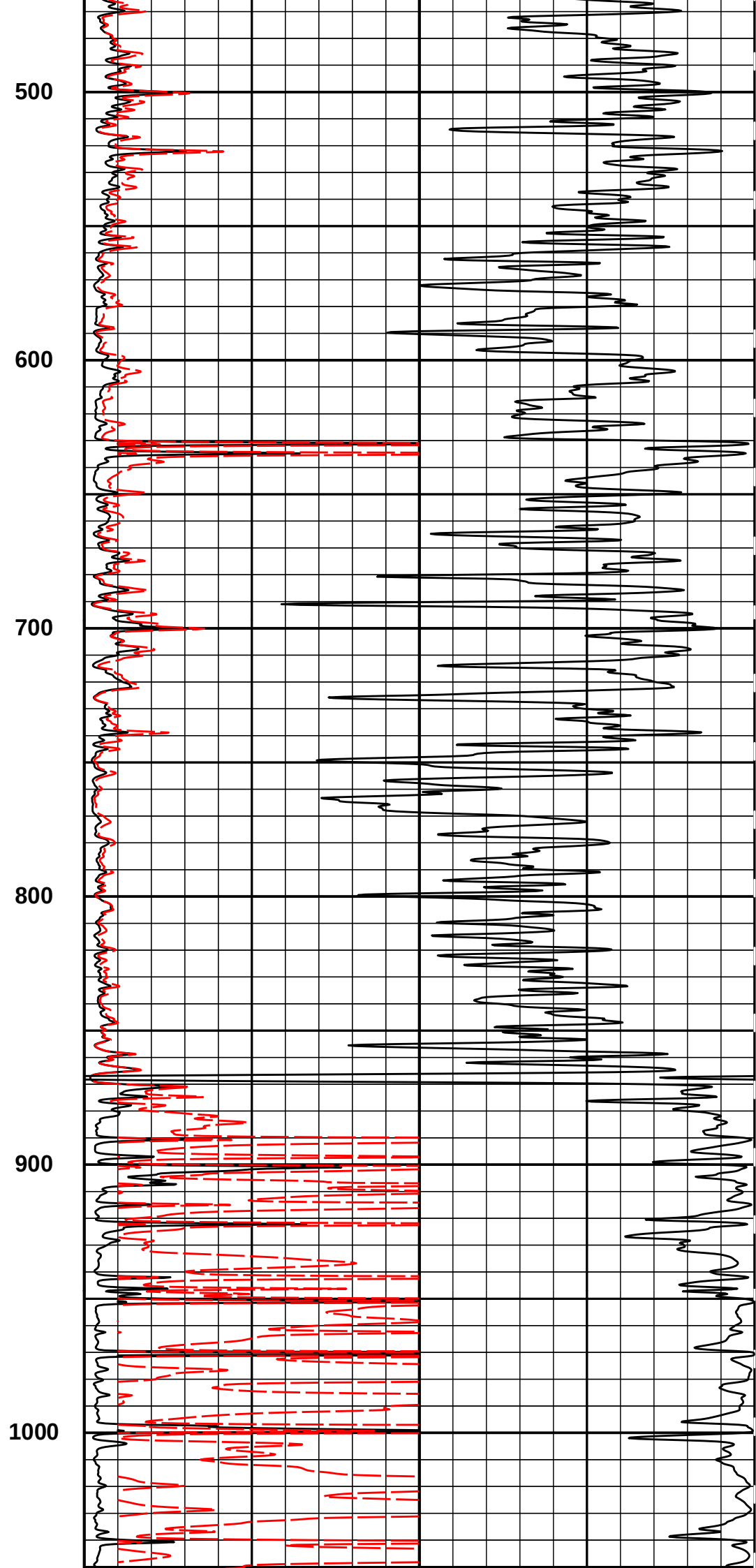
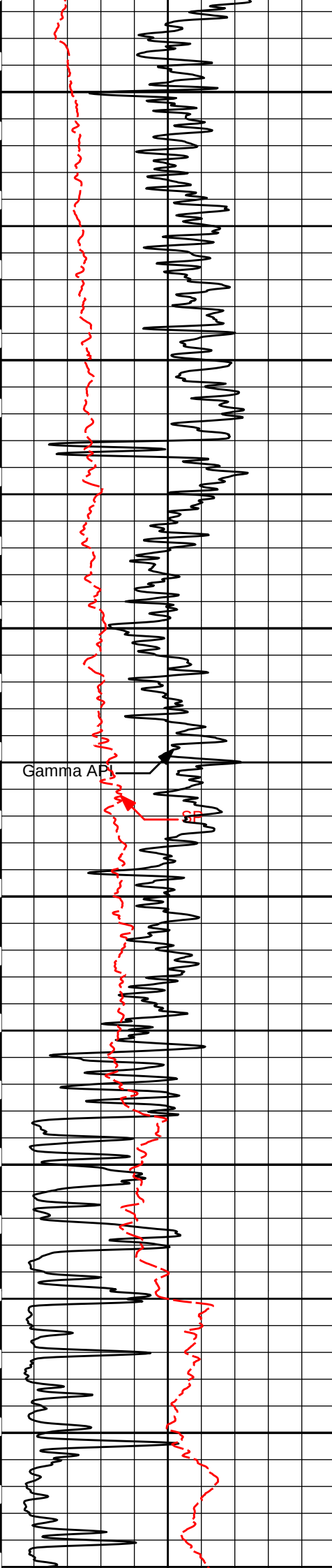
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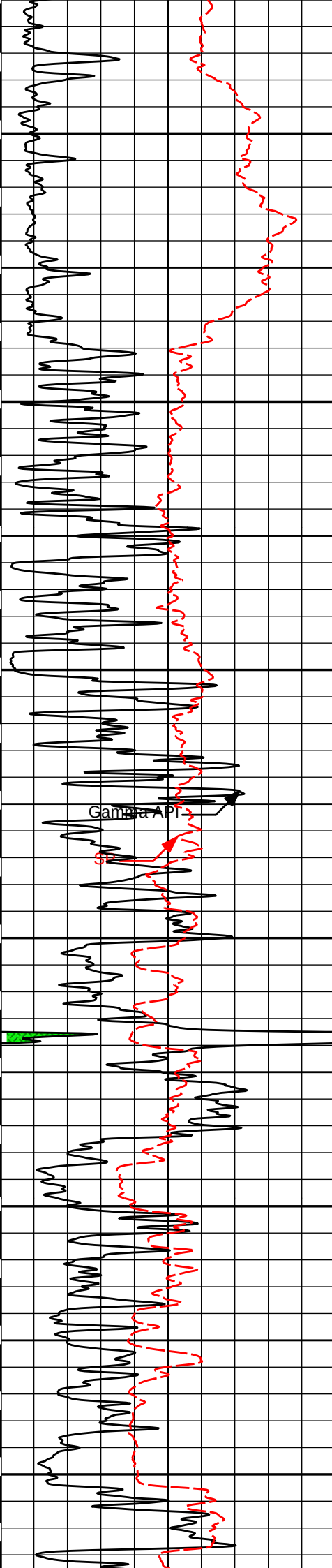
HALLIBURTON

Plot Time: 29-Apr-16 04:56:16
Plot Range: 250 ft to 3219.67 ft
Data: BENSCH-4\Well Based\MAIN\
Plot File: \\-LOCAL-\\BENSCH-4\Well Based\ACRT\ACRT_2_lib

2 INCH MAIN LOG







1100

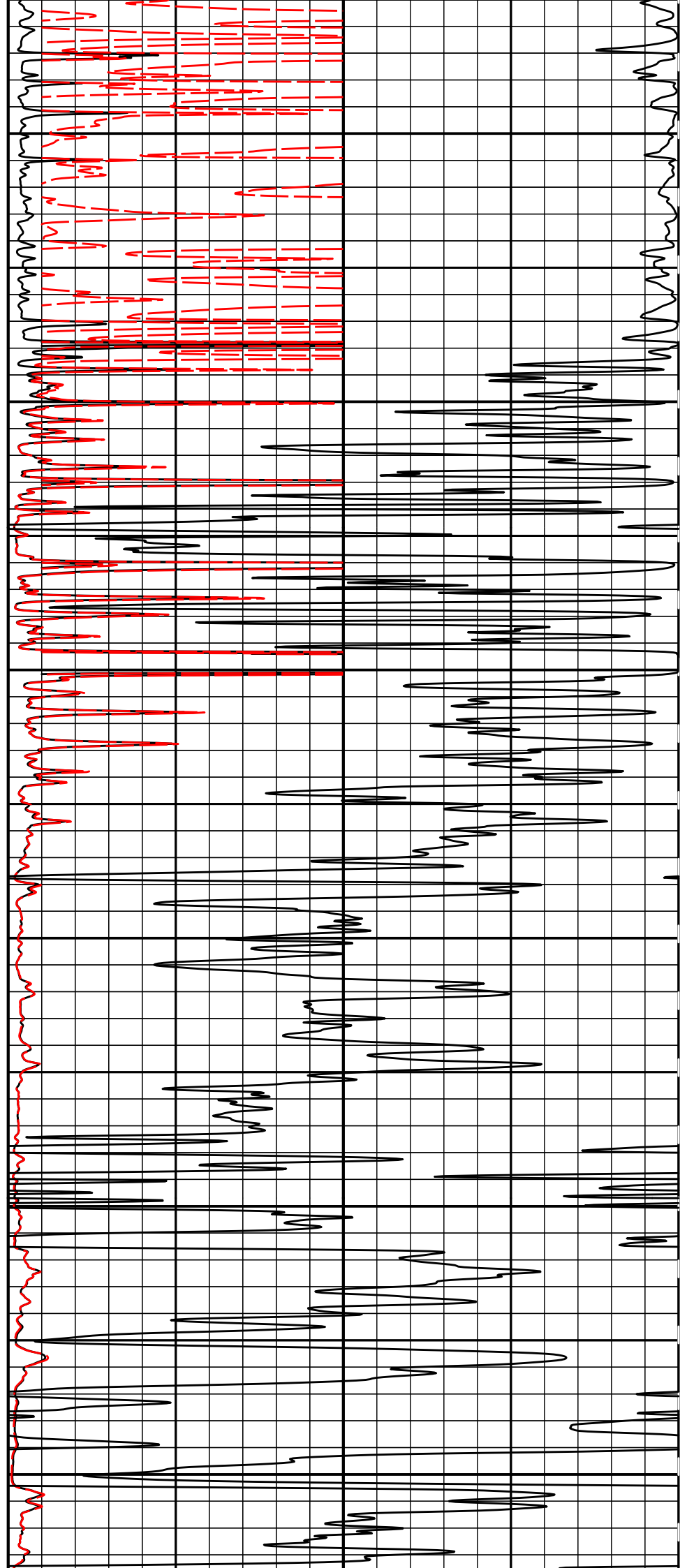
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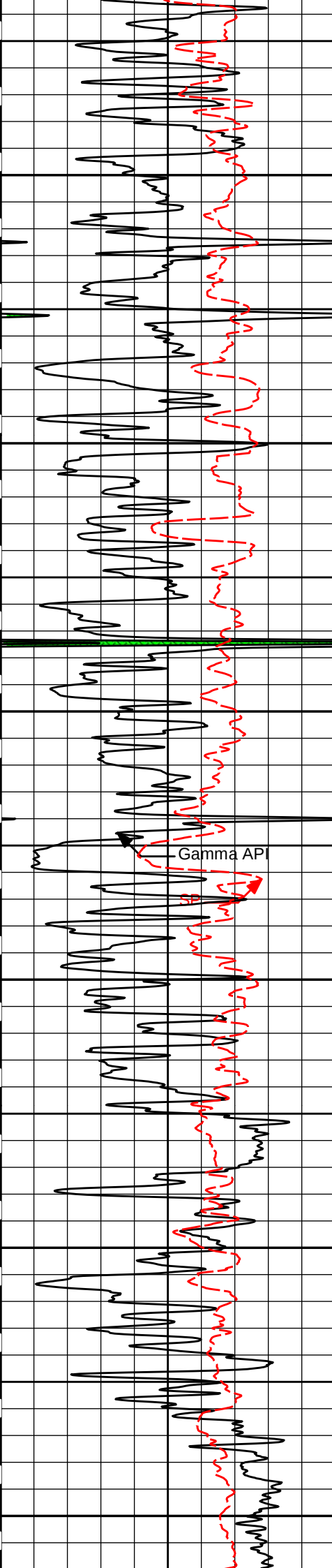
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1400

1500

1600





1700

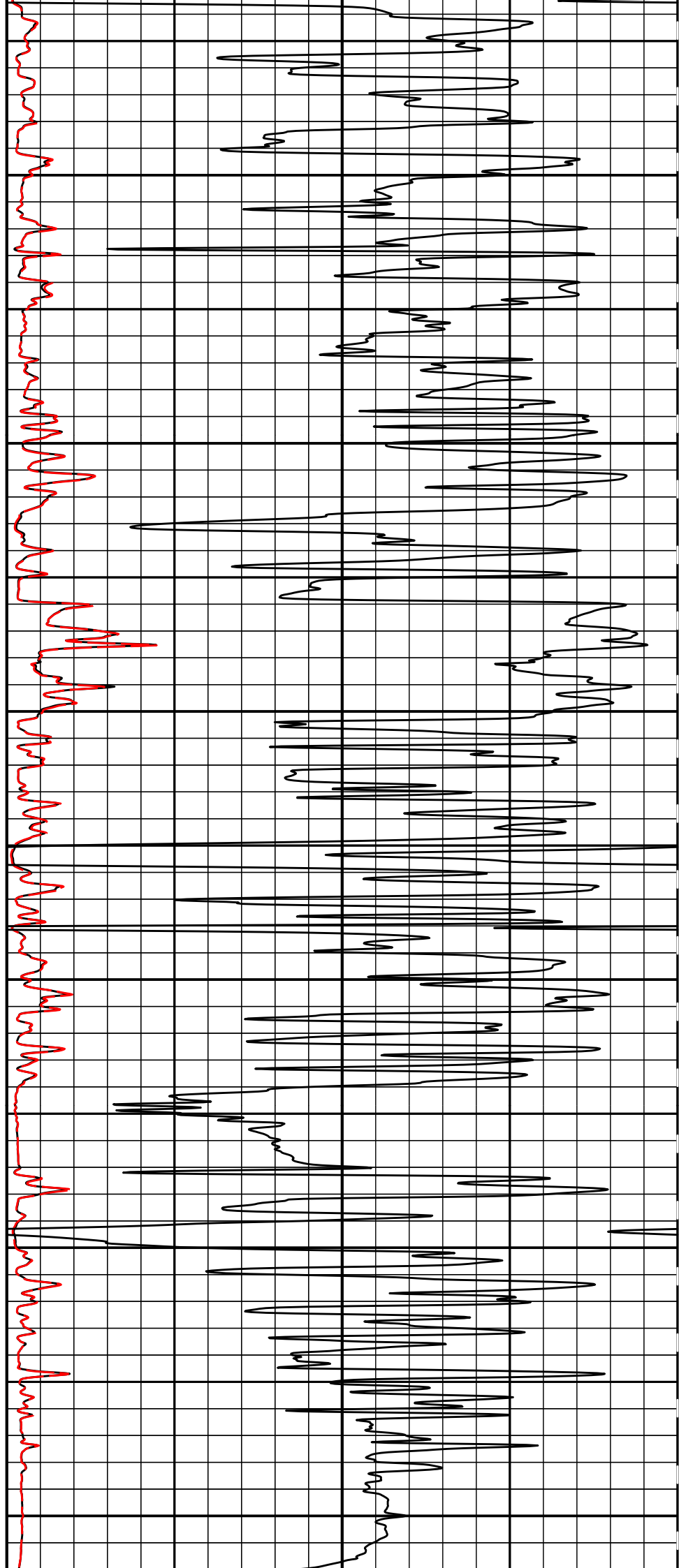
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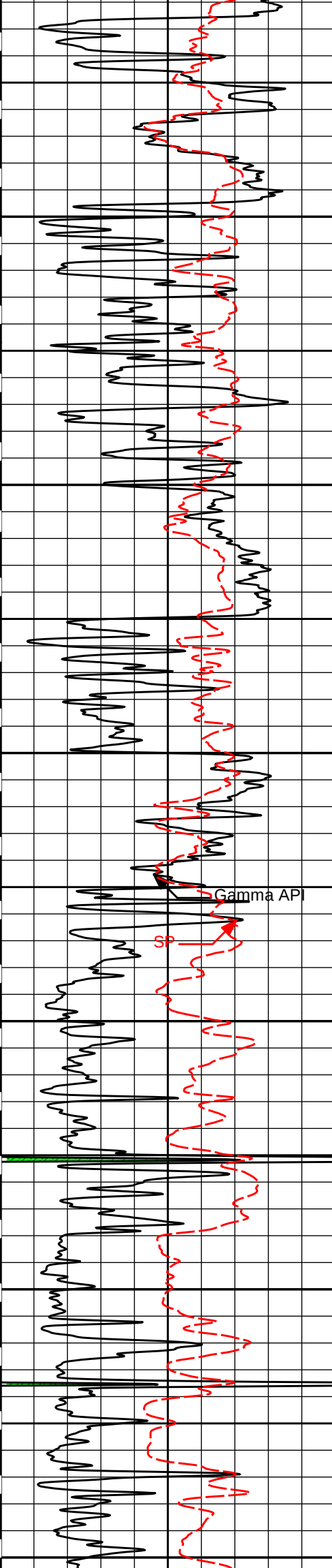
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2000

2100

2200





2300

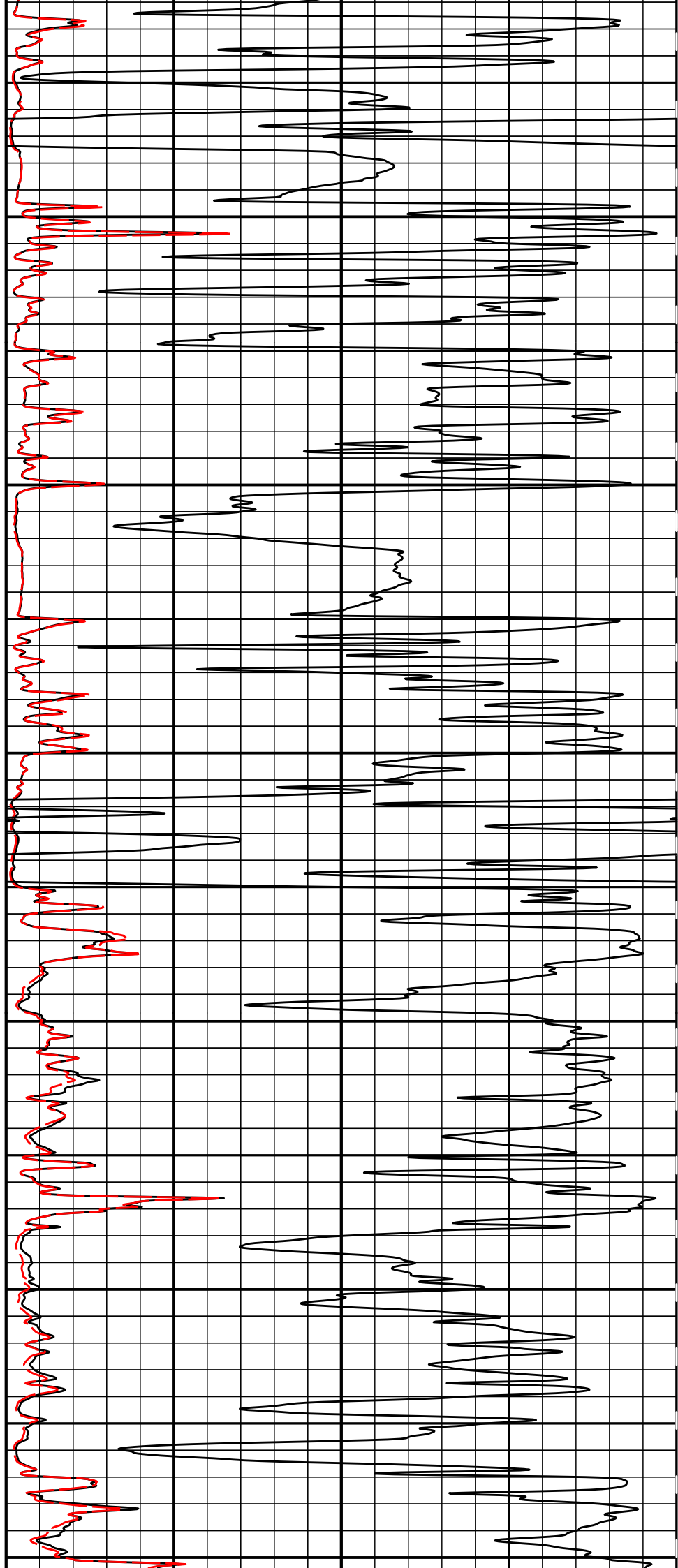
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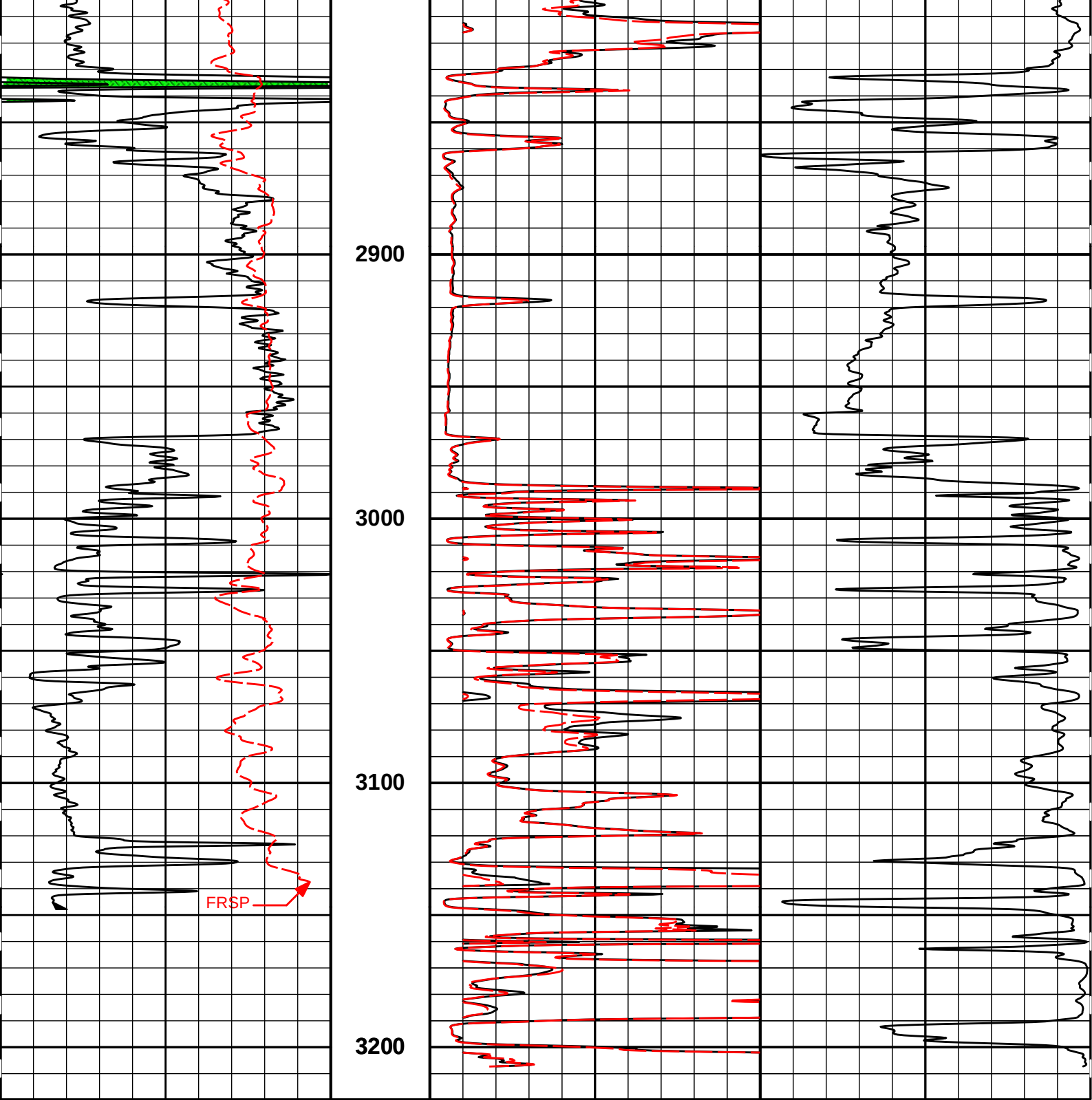
2500

2600

2700

2800





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

Plot Time: 29-Apr-16 04:56:18
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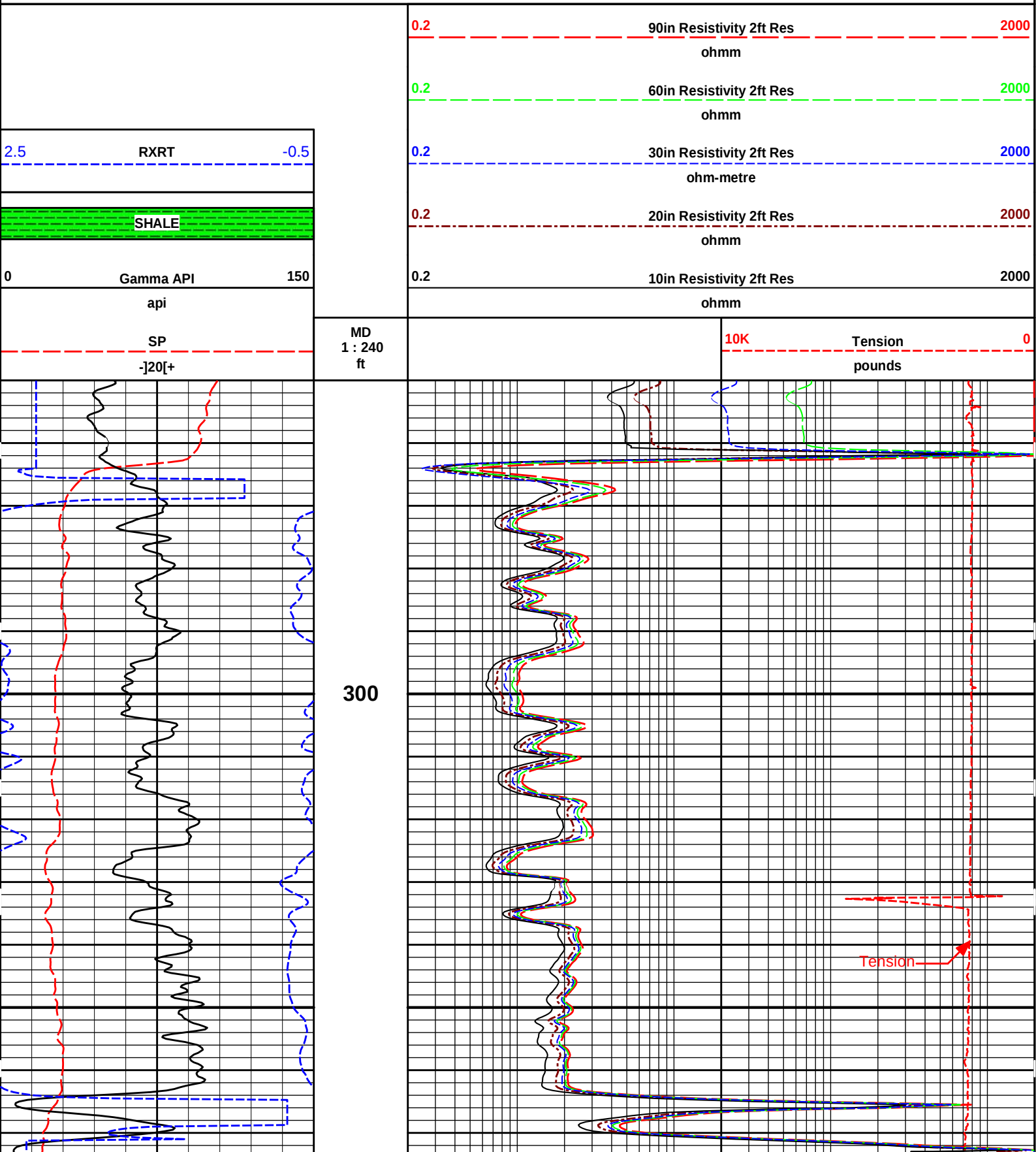
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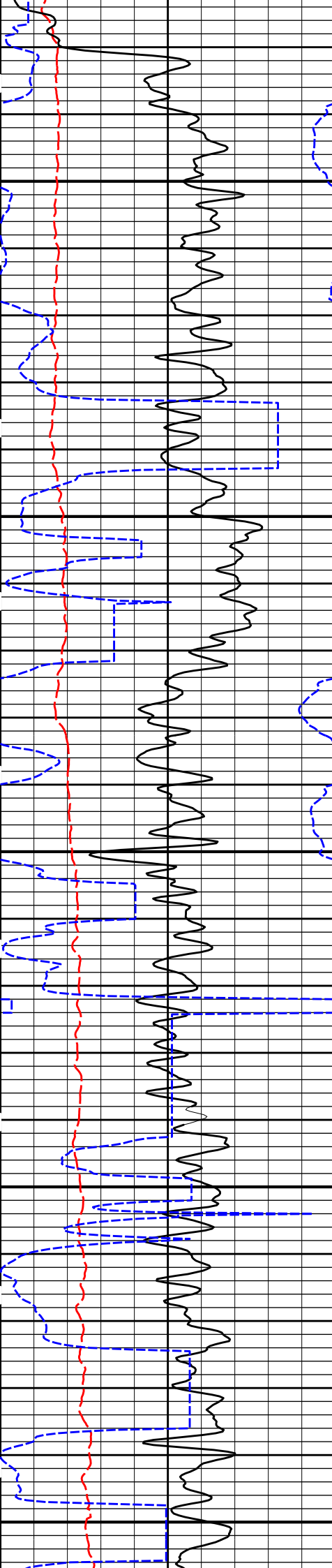
HALLIBURTON

Plot Time: 29-Apr-16 04:56:18
Plot Range: 250 ft to 3219.67 ft

5 INCH MAIN LOG

MEASURED DEPTH
MAIN SECTION 5" PER 100'

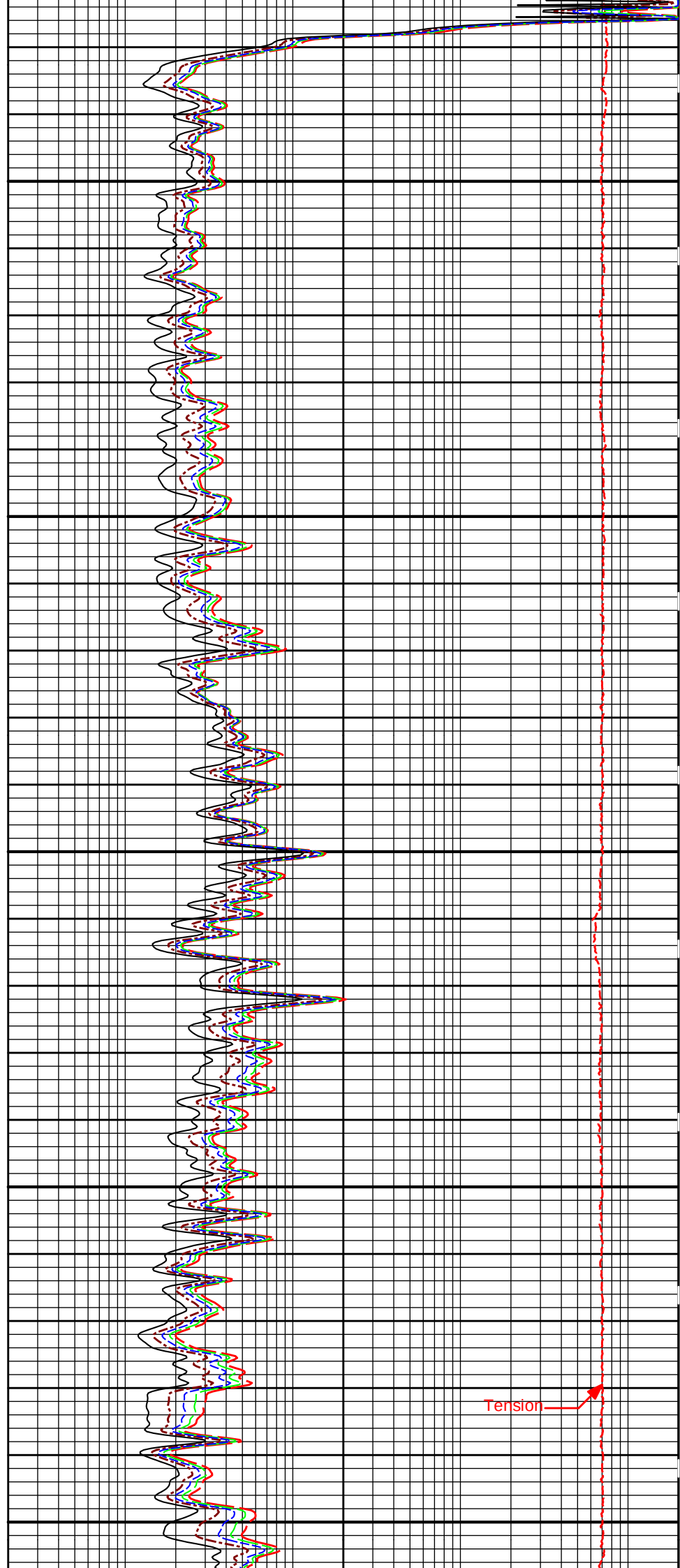




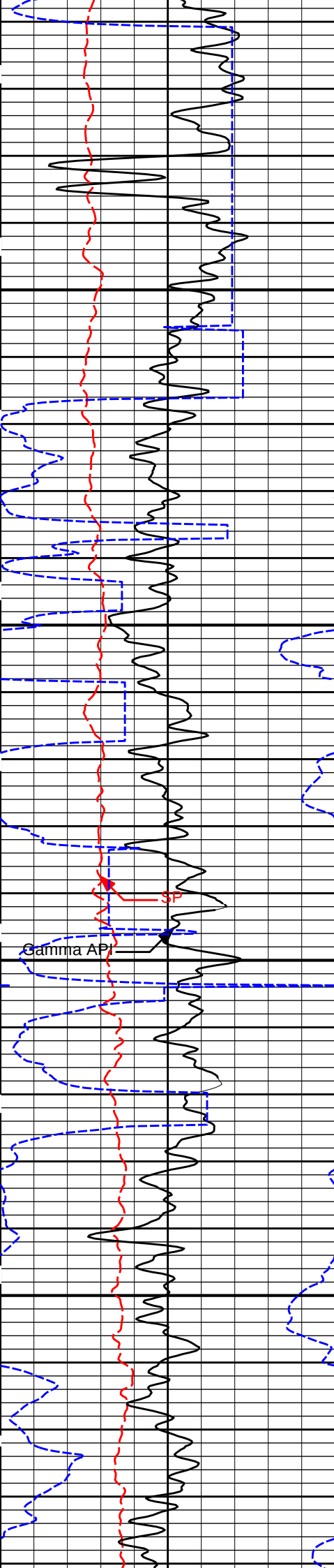
400

500

600

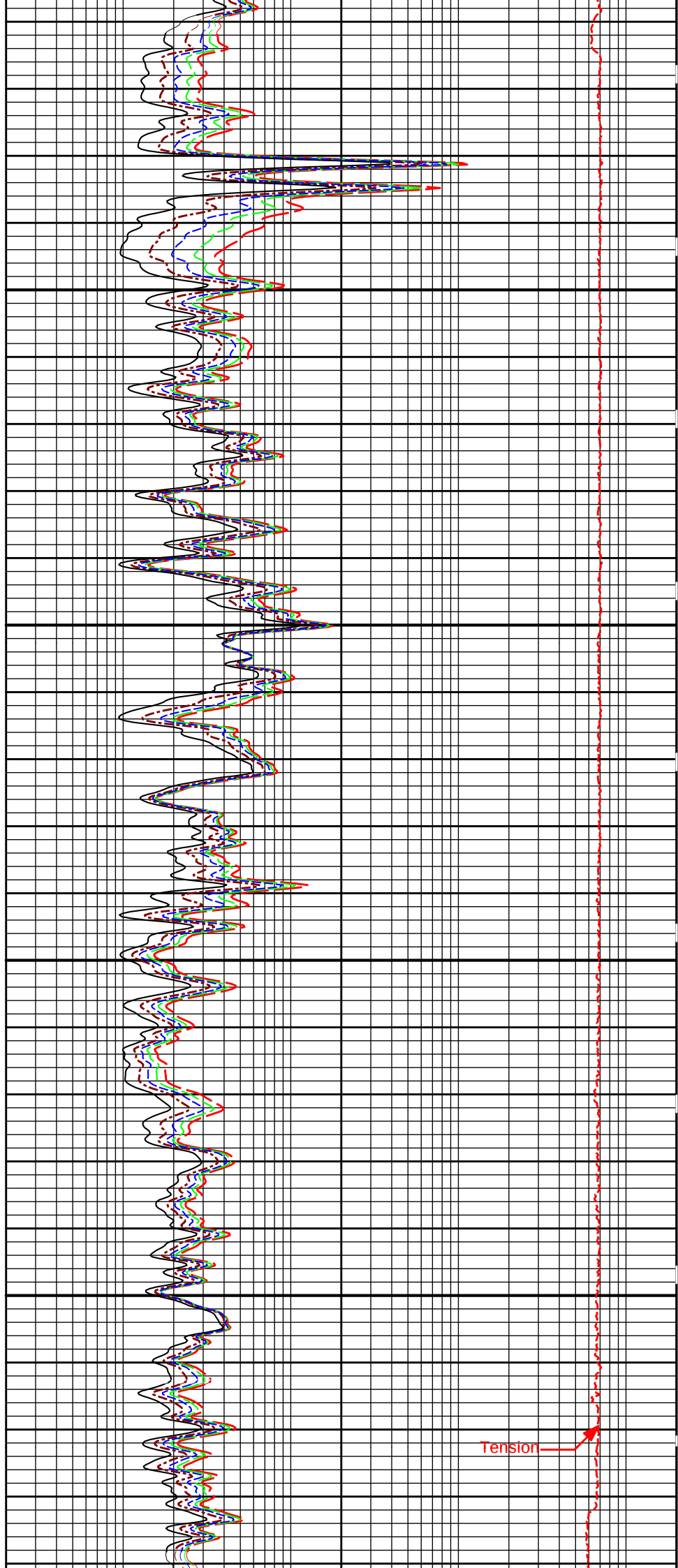


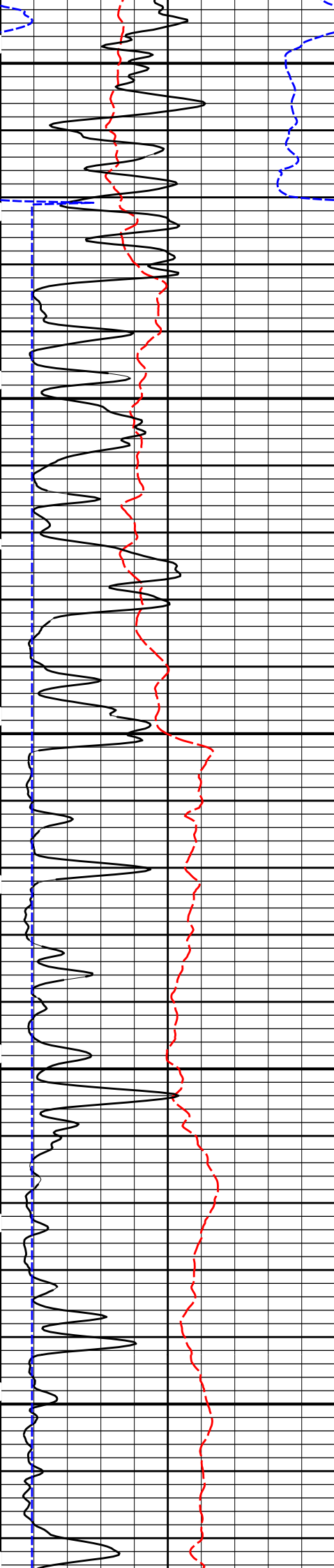
Tension



700

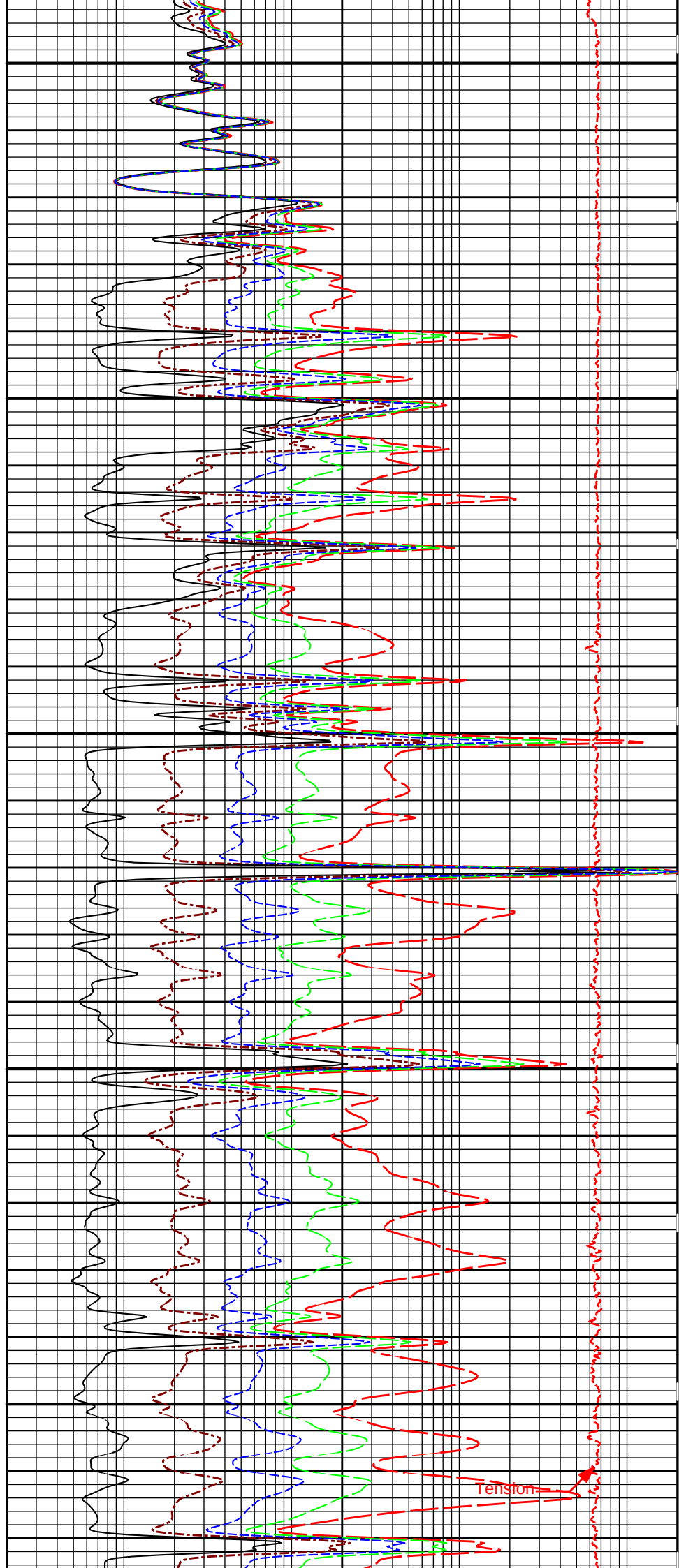
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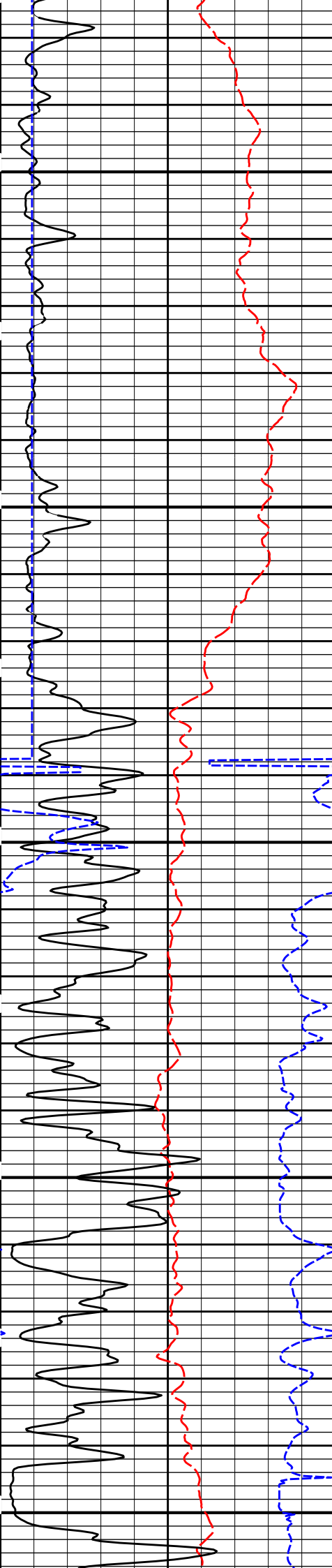




900

1000

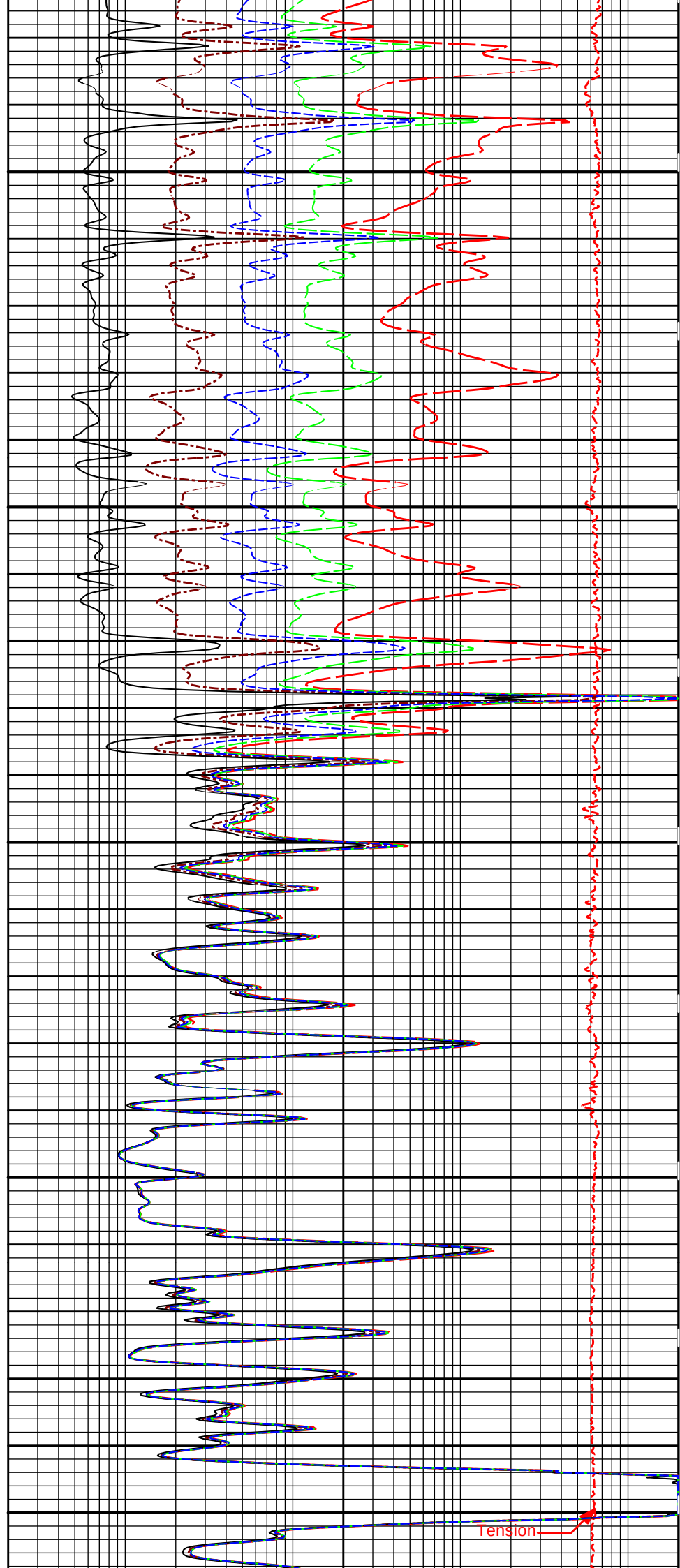




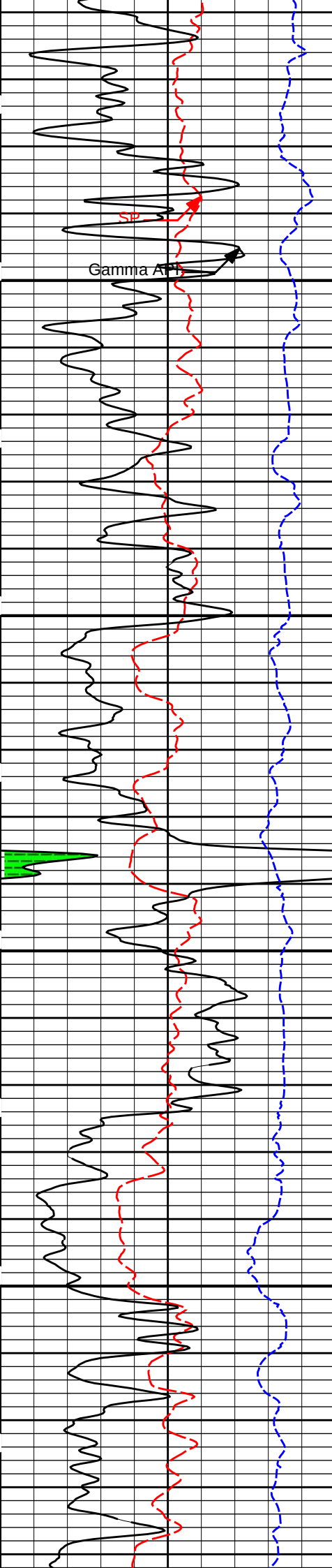
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1200

1300

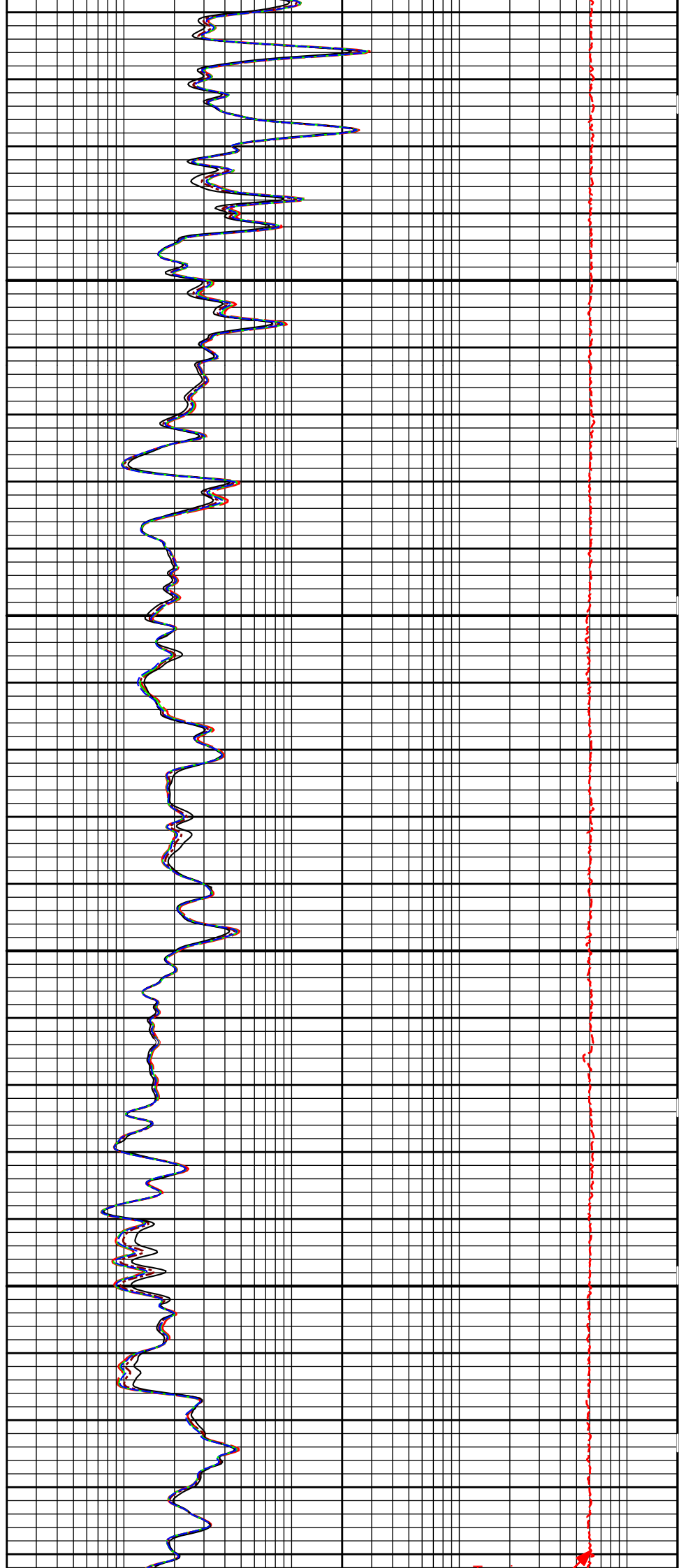


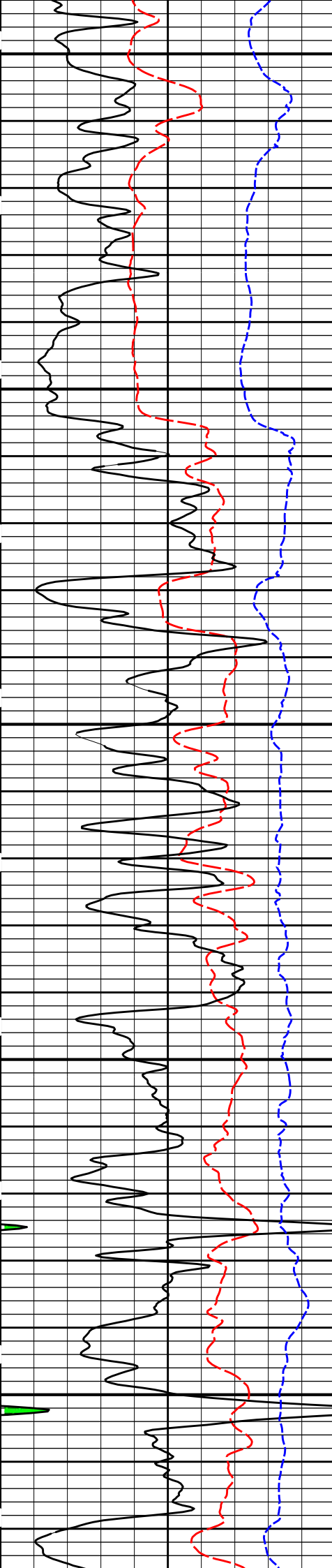
Tension



1400

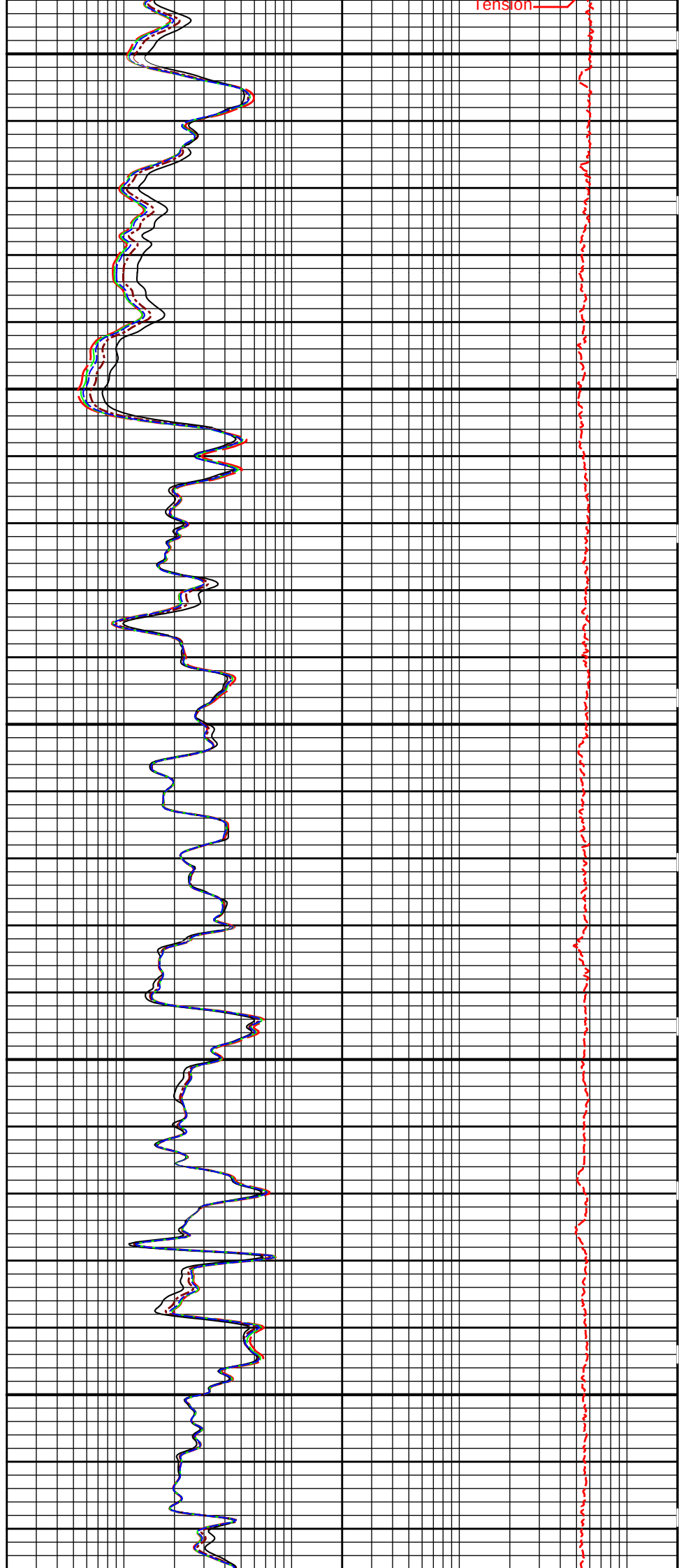
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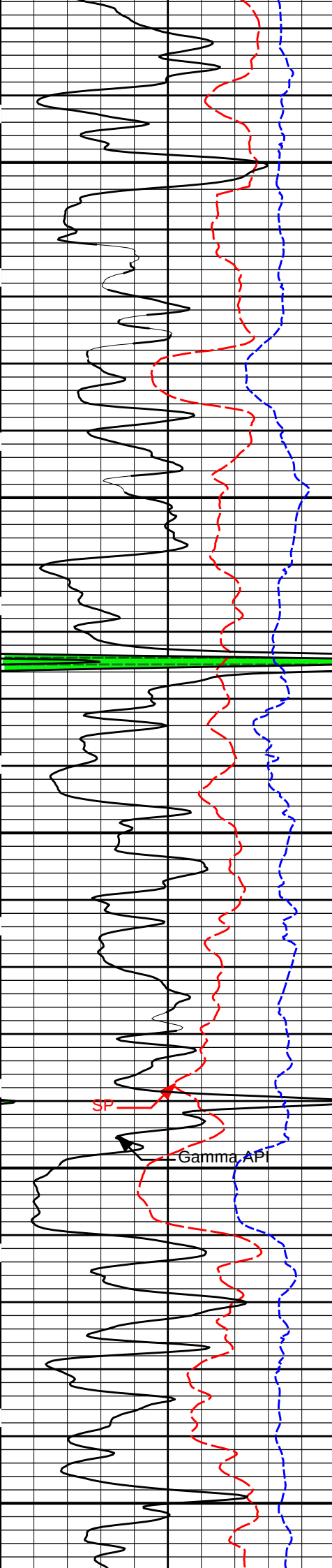


1600

1700



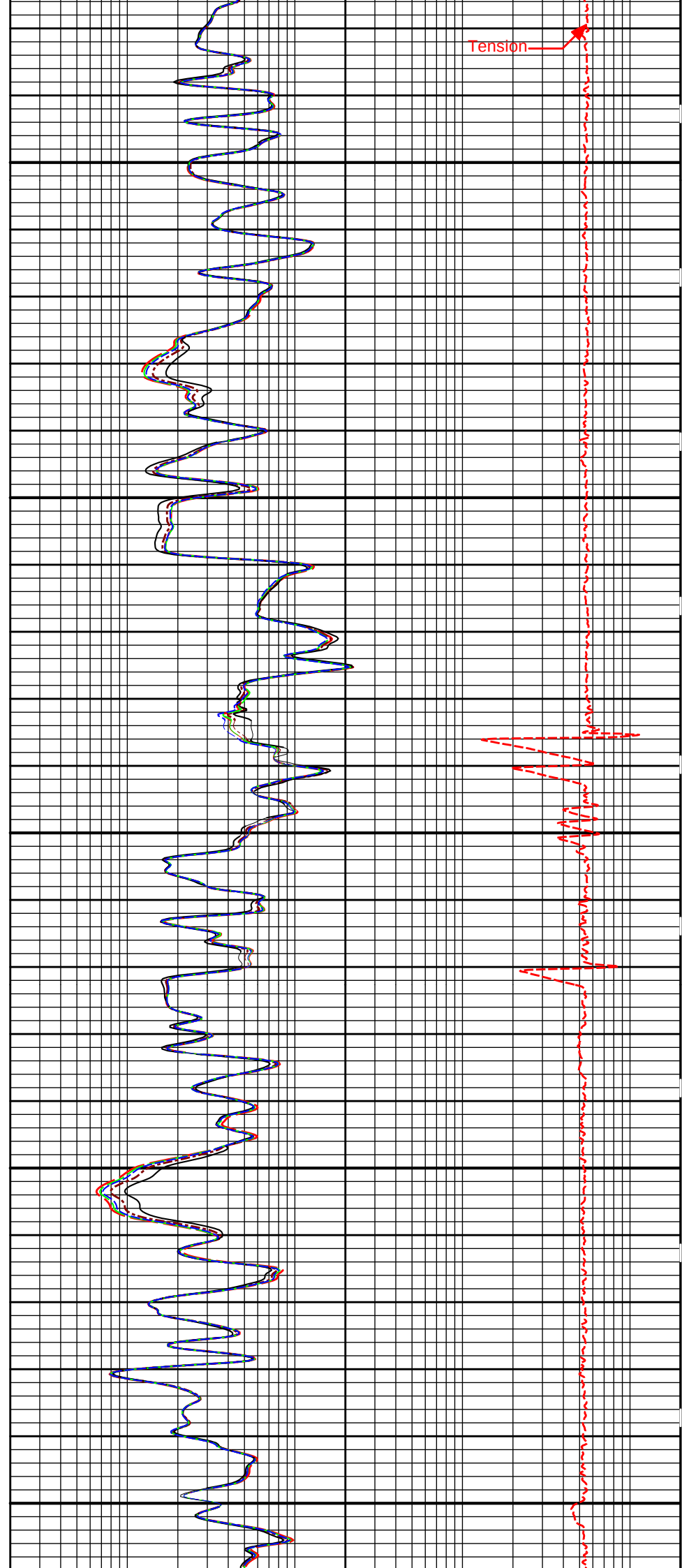
tension

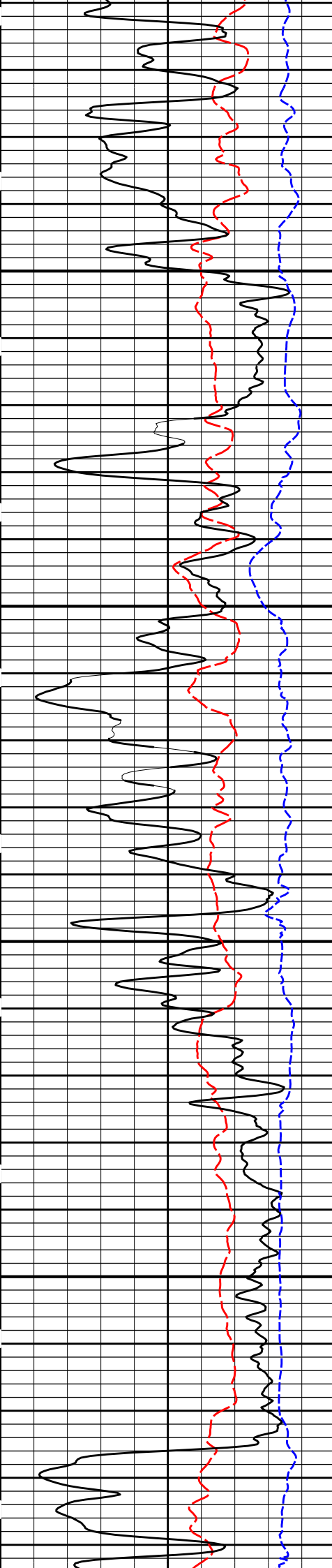


1800

1900

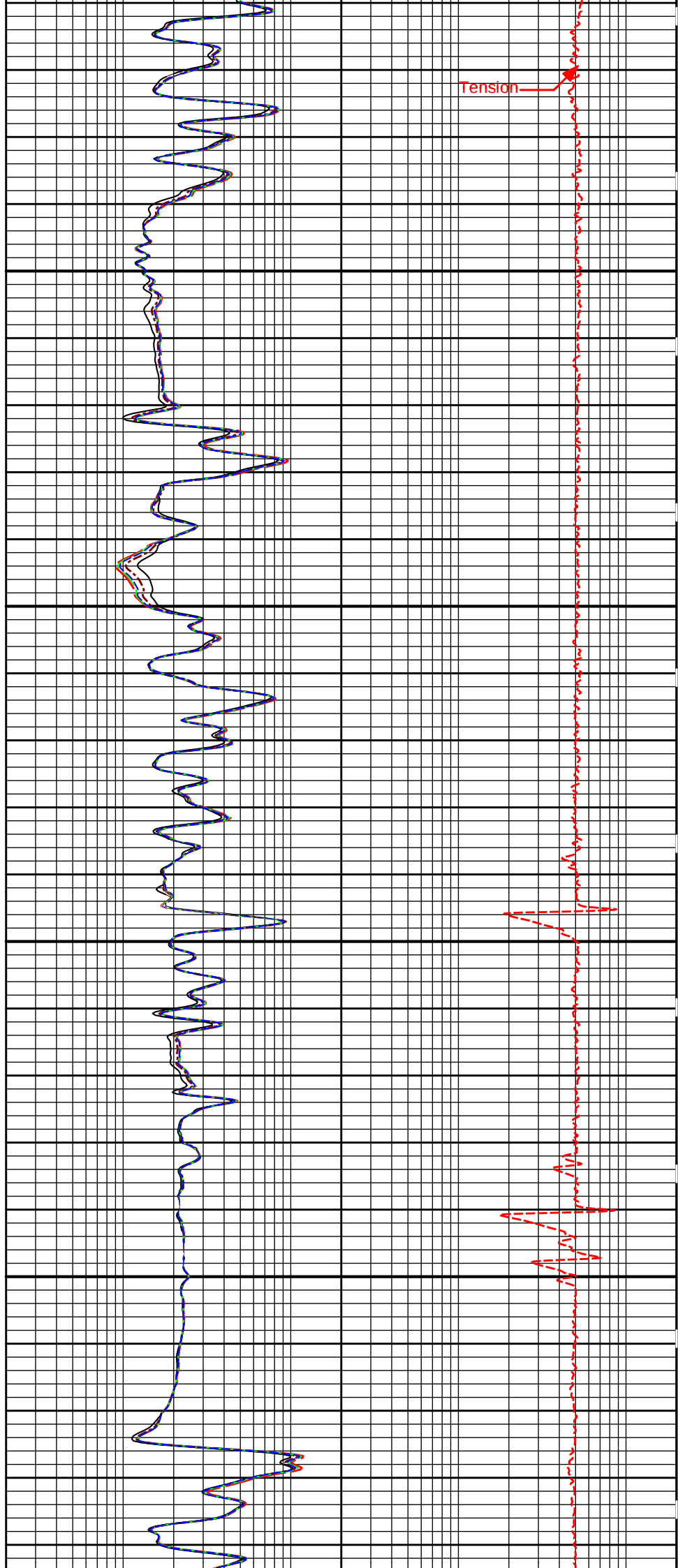
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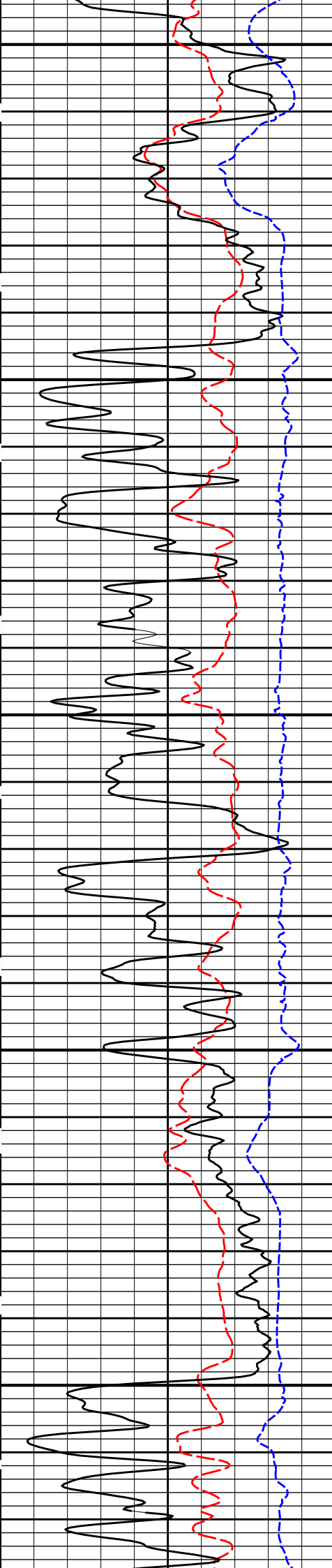




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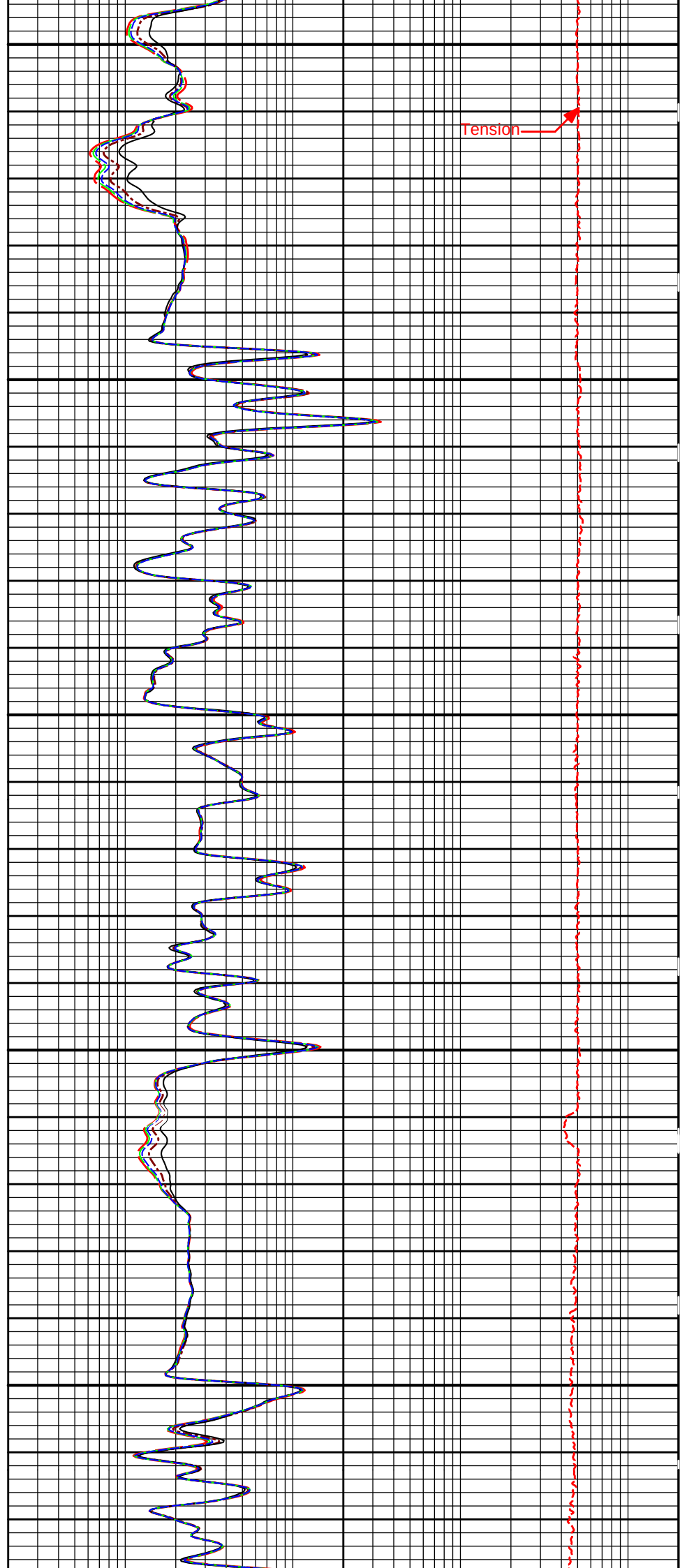
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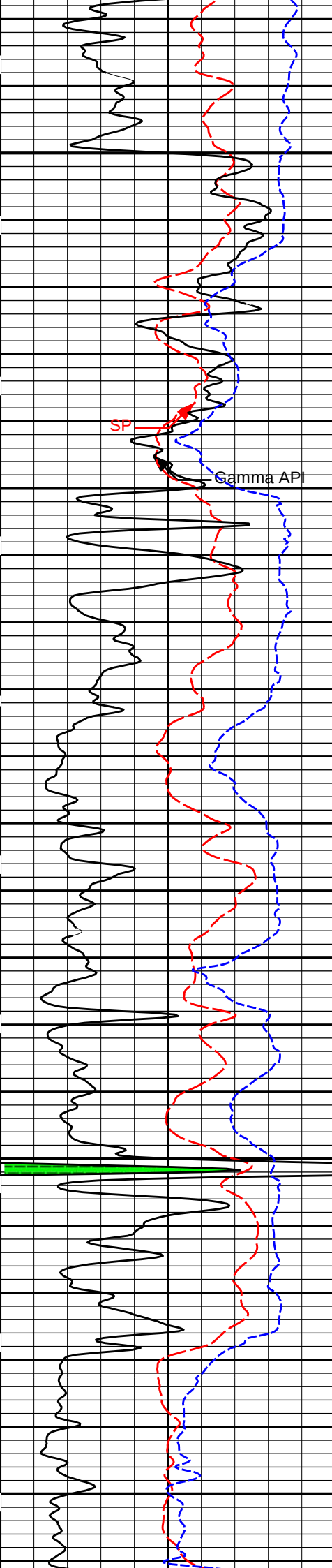




2300

2400

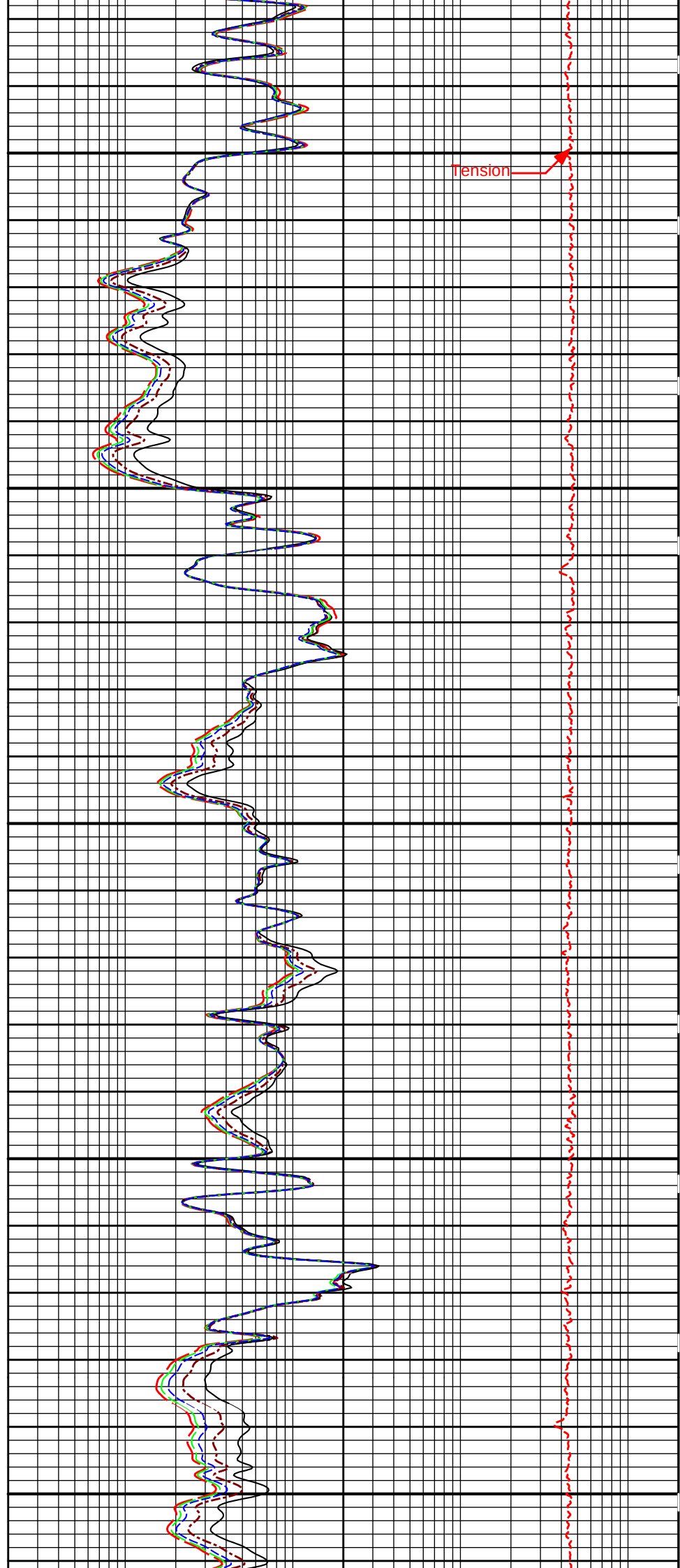


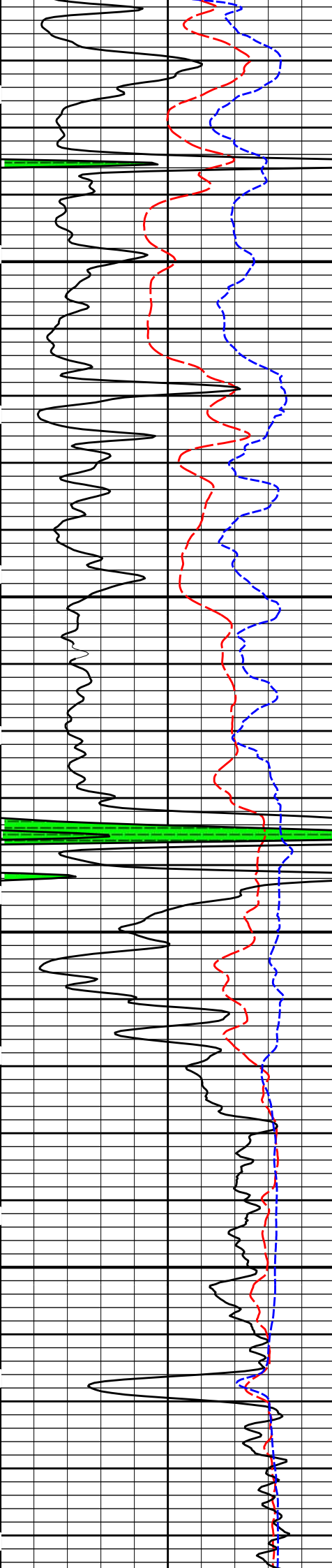


2500

2600

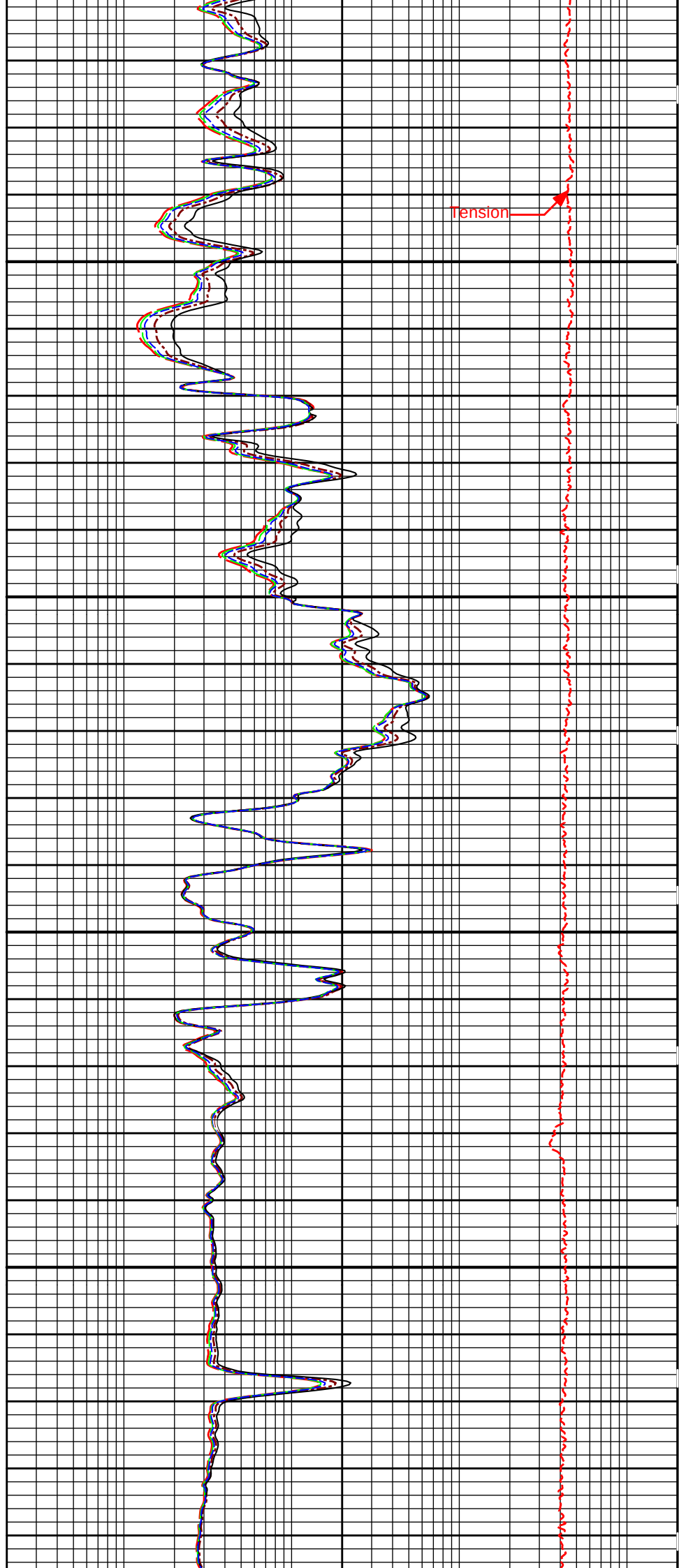
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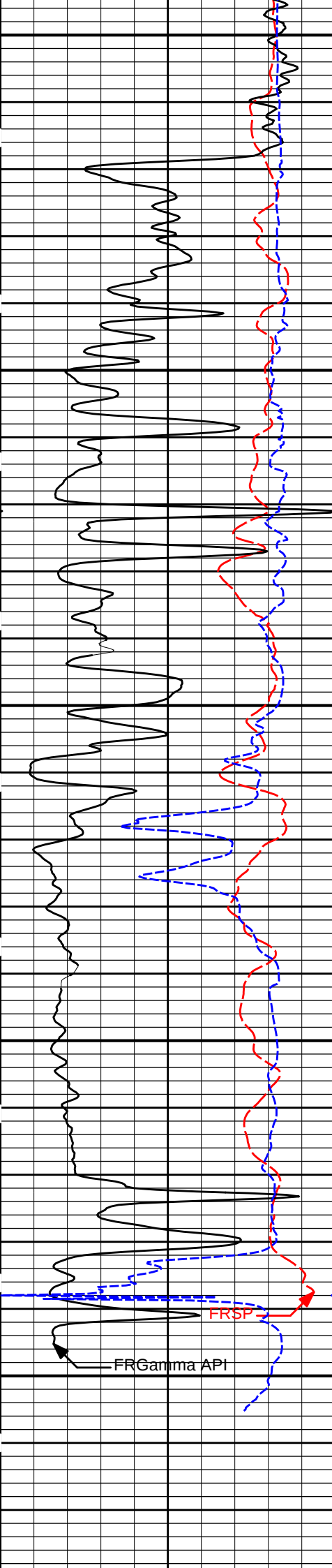




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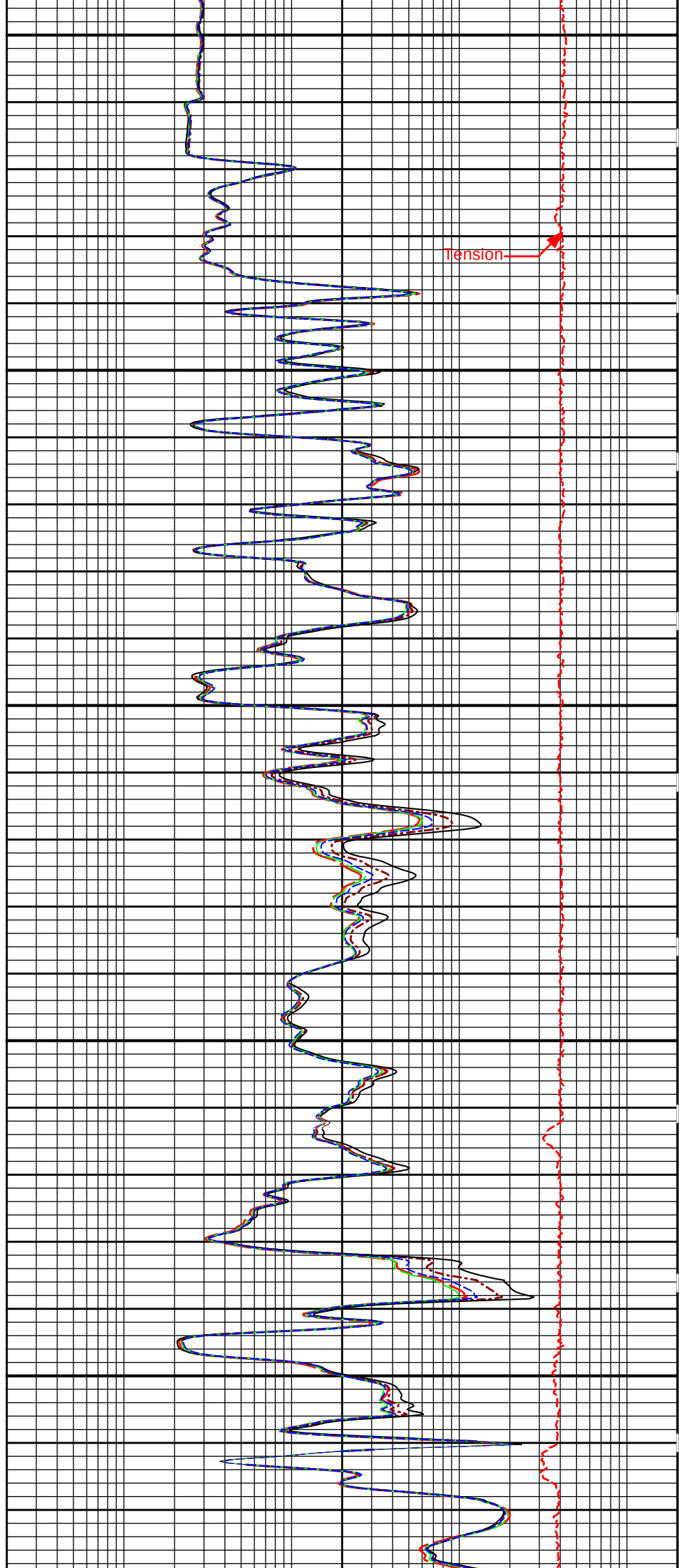
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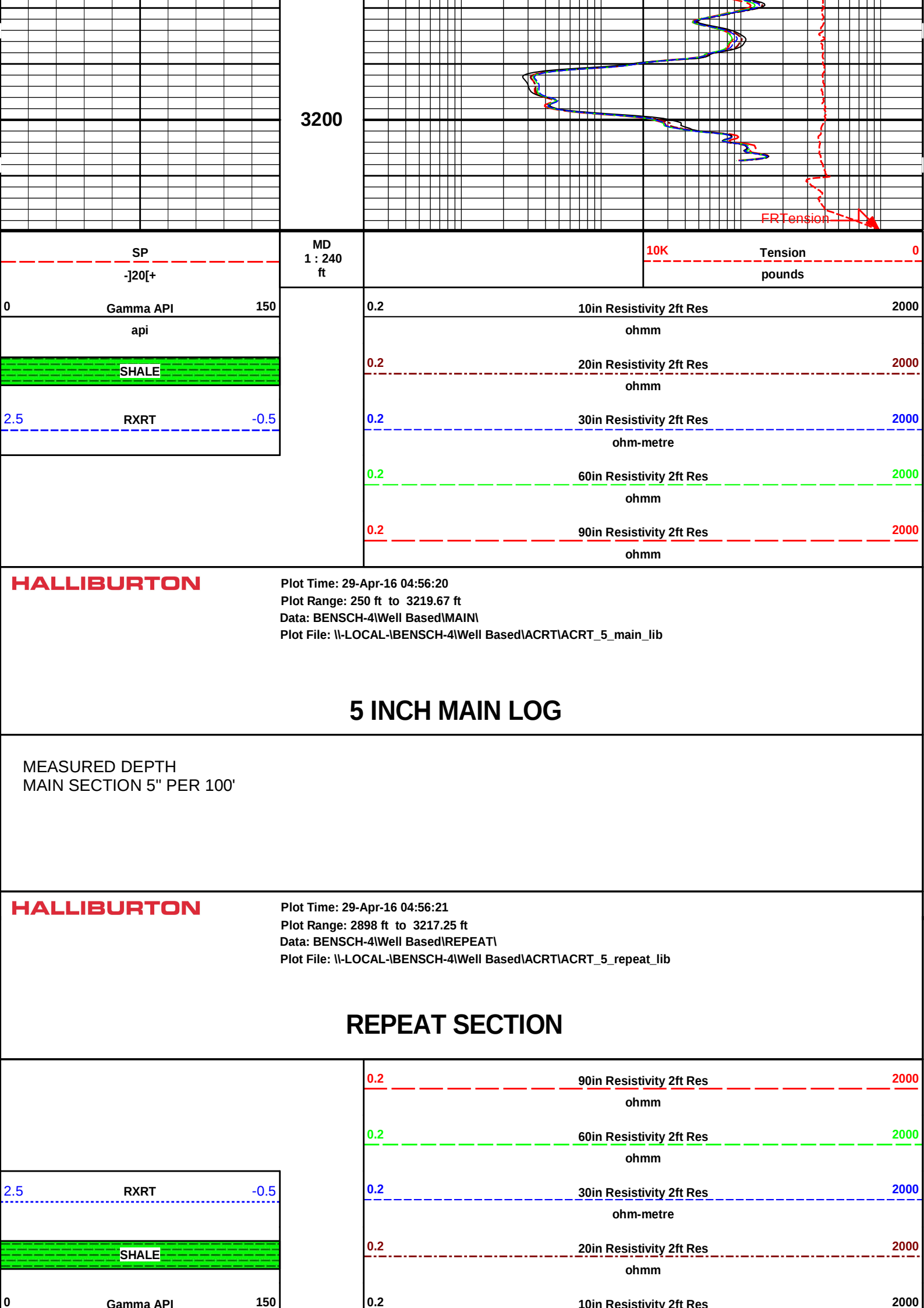




3000

3100





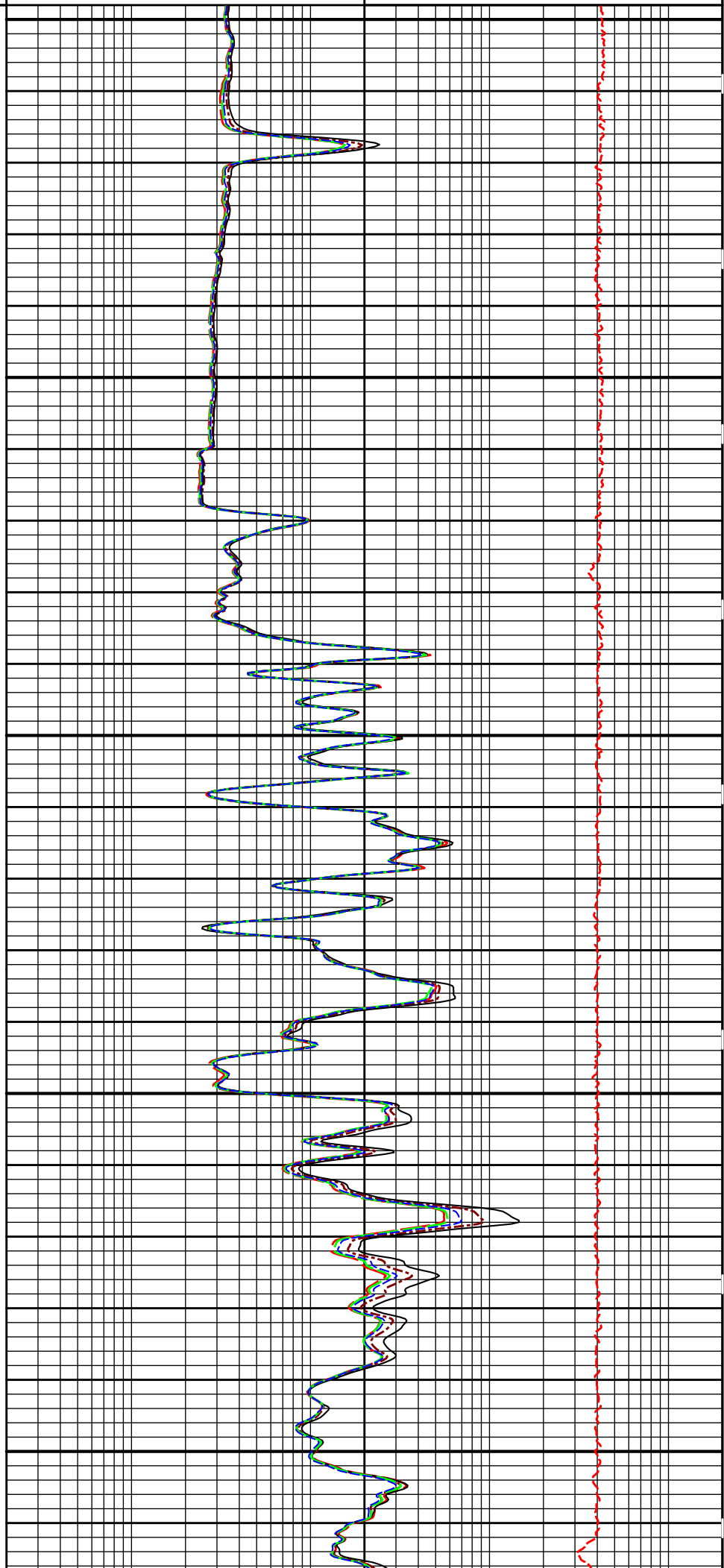
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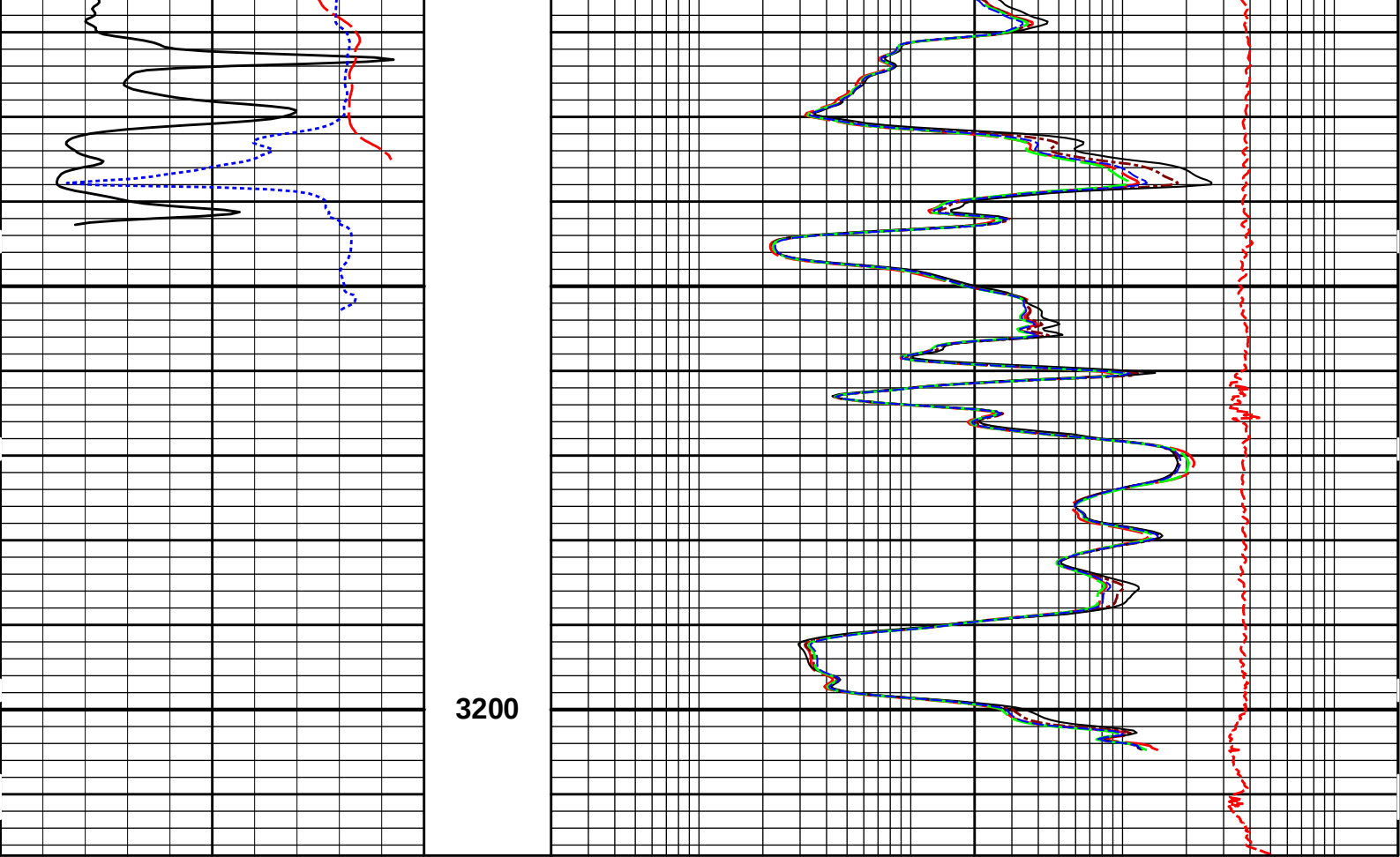
2900

Tension

pounds

0





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

HALLIBURTON

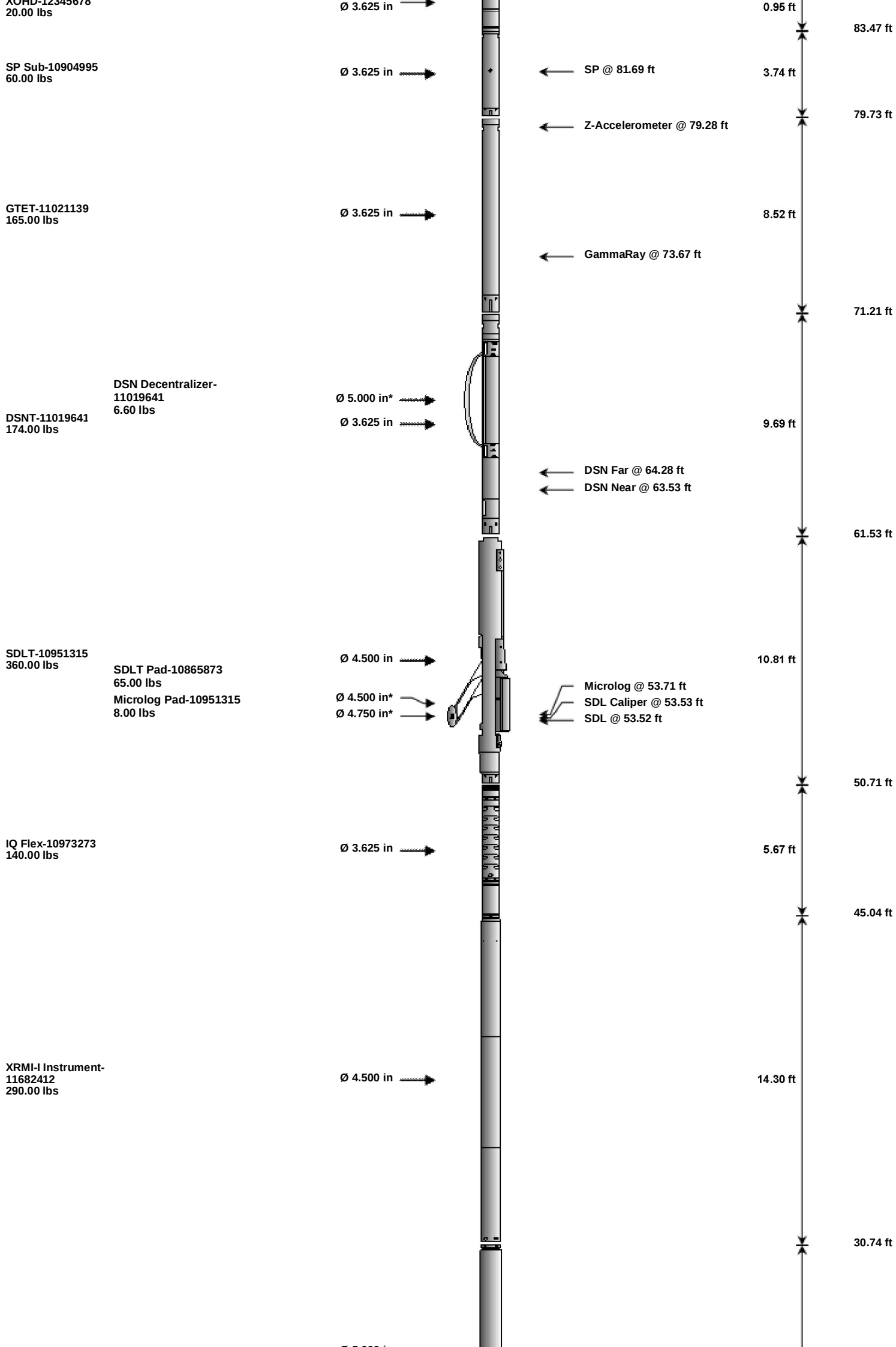
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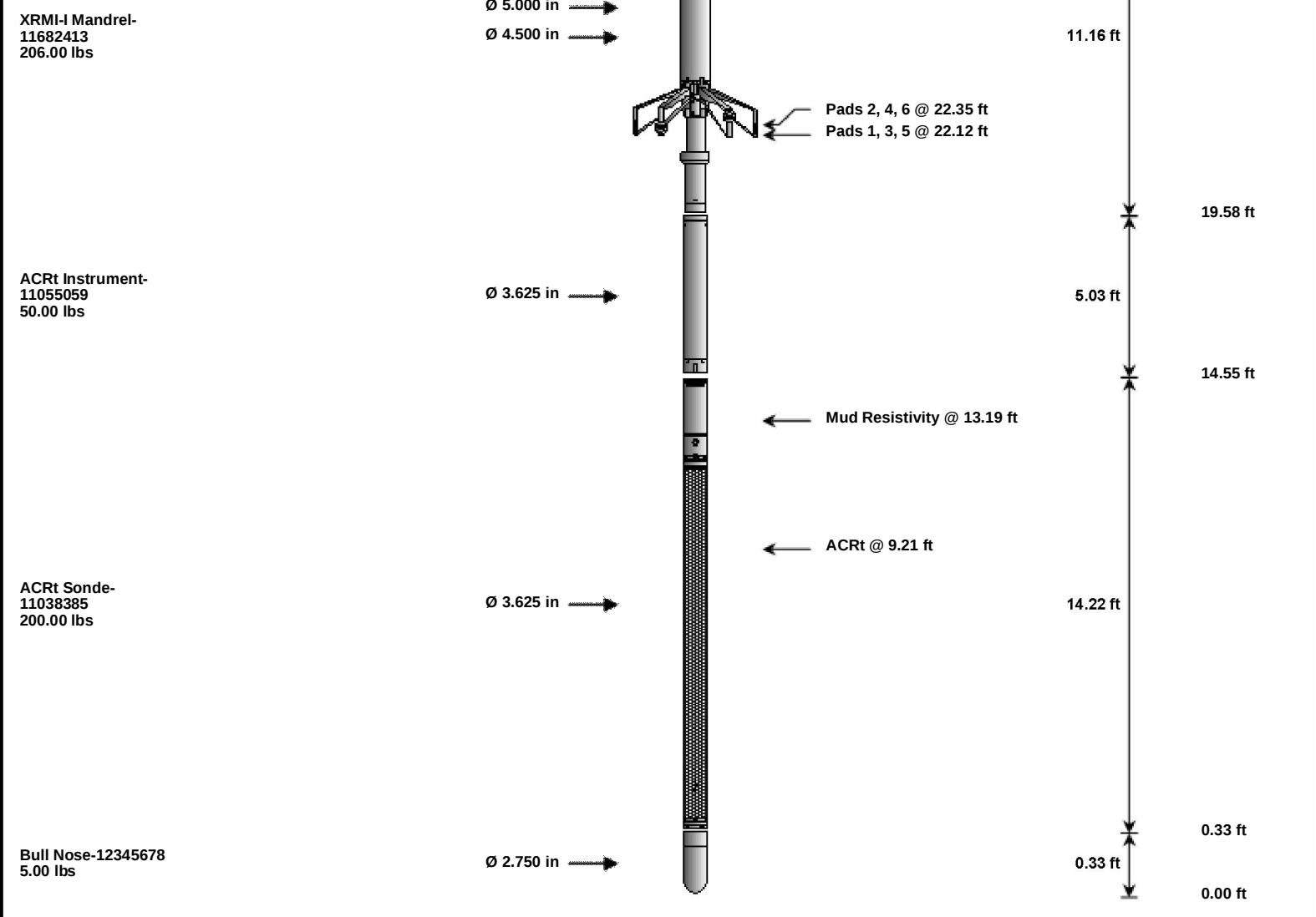
REPEAT SECTION

HALLIBURTON

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 @ 86.42 ft	3.03 ft	87.45 ft
YOHD 12345678		Ø 2.750 in				84.42 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	3.03	84.42	300.00
XOHD	Hostile to Dits Cross Over		12345678	20.00	0.95	83.47	300.00
SP	SP Sub		10904995	60.00	3.74	79.73	300.00
GTET	Gamma Telemetry Tool		11021139	165.00	8.52	71.21	60.00
DSNT	Dual Spaced Neutron		11019641	174.00	9.69	61.53	60.00
DCNT	DSN Decentralizer		11019641	6.60	5.13	* 64.86	300.00
SDLT	Spectral Density Tool		10951315	360.00	10.81	50.71	60.00
SDLP	Density Insite Pad		10865873	65.00	2.55	* 52.92	60.00
MICP	Microlog Pad		10951315	8.00	1.00	* 53.21	60.00
IQF	IQ Flex tool		10973273	140.00	5.67	45.04	300.00
XRMI	XRMI Navigation - Insite		11682412	290.00	14.30	30.74	30.00
XRMI-I	XRMI Imager - Insite		11682413	206.00	11.16	19.58	30.00
ACRt	Array Compensated True Resistivity Instrument Section		11055059	50.00	5.03	14.55	120.00
ACRt	Array Compensated True Resistivity Sonde Section		11038385	200.00	14.22	0.33	120.00
BLNS	Bull Nose		12345678	5.00	0.33	0.00	300.00
Total				1,787.10	87.45		
* Not included in Total Length and Length Accumulation.							
Data: BENSCH-4I0001 GTET-DSN-SDL-FLX-XRMI-ACRTIDLE Date: 29-Apr-16 00:40:51							

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	MDPS	Mud Base	Water		

SHARED	MDBS	Mud Base	Water	
SHARED	MDWT	Borehole Fluid Weight	8.700	ppg
SHARED	WAGT	Weighting Agent	Natural	
SHARED	BSAL	Borehole salinity	4600.00	ppm
SHARED	FSAL	Formation Salinity NaCl	0.00	ppm
SHARED	KPCT	Percent K in Mud by Weight?	0.00	%
SHARED	RMUD	Mud Resistivity	0.770	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	3220.00	ft
SHARED	BHT	Bottom Hole Temperature	105.0	degF
SHARED	SVTM	Navigation and Survey Master Tool	XRMI-I Instrument	
SHARED	AZTM	High Res Z Accelerometer Master Tool	XRMI-I Instrument	
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	XRMI-I Mandrel	
Rwa / CrossPlot	ROIN	Input for RO Calculation	Rwa	
GTET	GROK	Process Gamma Ray?	Yes	
GTET	GEOK	Process Gamma Ray EVR?	Yes	
GTET	TPOS	Tool Position for Gamma Ray Tools.	Eccentered	
GTET	BHSM	Borehole Size Source Tool	XRMI-I Mandrel	
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	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	XRMI-I Mandrel	
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?	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	
XRMI-I Instrument	WRTI	Survey Writing Interval	30	ft
XRMI-I Instrument	SOPT	Smoothing Option	None	

XRMI-I Mandrel	DIMG	Process XRMI?	Yes
XRMI-I Mandrel	ALMT	Image Alignment Method	AZIM
XRMI-I Mandrel	AGN	Use Button Auto Gain?	Yes
XRMI-I Mandrel	BCLR	Button Auto Gain Color	127
XRMI-I Mandrel	BFIL	Button Auto Gain Filter	0.020
XRMI-I Mandrel	BGAN	Button Gain Value	0.001
XRMI-I Mandrel	BOFF	Button Offset	0
XRMI-I Mandrel	DIPE	Process Dipmeter Calculations?	Yes
XRMI-I Mandrel	BHCS	Process Borehole Corrections?	Yes
XRMI-I Mandrel	BHSM	Borehole Size Source Tool	XRMI-I Mandrel
XRMI-I Mandrel	CLOK	Process Caliper Outputs?	Yes
XRMI-I Mandrel	CMAX	Caliper Maximum Limit	100.0in
XRMI-I Mandrel	CMIN	Caliper Mimimum Limit	3.5in
XRMI-I Mandrel	NAVS	Navigation Source Tool	XRMI-I Instrument
XRMI-I Mandrel	BHVC	Radius type for borehole volume calcuations	Elliptical
XRMI-I Mandrel	CCL	Caliper Correction Algorithm	None
ACRt Sonde	RTOK	Process ACRt?	Yes
ACRt Sonde	MNSO	Minimum Tool Standoff	1.50in
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	0.20ohmm
ACRt Sonde	RMAX	Maximum Resistivity for MAP	200.00ohmm
ACRt Sonde	THQY	Threshold Quality	0.50
ACRt Sonde	MRFX	Fixed mud resistivity	2000ohmm
ACRt Sonde	BHSM	Borehole Size Source Tool	XRMI-I Mandrel
ACRt Sonde	MBFL	Apply Corkscrew Effect?	No
BOTTOM_____			
Data: BENSCH-4I0001 GTET-DSN-SDL-FLX-XRMI-ACRTIDLE			Date: 29-Apr-16 03:17:03

HALLIBURTON CALIBRATION REPORT			
NATURAL GAMMA RAY TOOL SHOP CALIBRATION			
Tool Name:	GTET - 11021139	Reference Calibration Date:	10-Apr-16 15:48:49
Engineer:	WHITLOCK	Calibration Date:	24-Apr-16 10:32:03
Software Version:	WL INSITE R5.0.0 (Build 4)	Calibration Version:	1
Calibrator Source S/N: TB79 Calibrator API Reference:222.00 api Equivalent Calibrator API Reference:225.9 api			
	Measurement	Measured	Calibrated
	Background	22.1	22.0
	Background + Calibrator	249.3	247.9
	Calibrator	227.2	225.9
NATURAL GAMMA RAY TOOL FIELD CALIBRATION			
Tool Name:	GTET - 11021139	Reference Calibration Date:	24-Apr-16 10:32:03
Engineer:	WHITLOCK	Calibration Date:	24-Apr-16 10:41:07
Software Version:	WL INSITE R5.0.0 (Build 4)	Calibration Version:	1
Calibrator Source S/N: TB79 Calibrator API Reference:222.00 api Equivalent Calibrator API Reference:225.9 api			
	Field Verification	Shop	Field
	Background	22.0	22.1

Shop	Field	Difference	Tolerance
225.9	225.5	0.4	+/- 9.00

Tool Name:	ACRt Sonde - 11038385	Reference Calibration Date:	14-Sep-15 09:09:02
Engineer:	JORGE ORLANDO PEREZ	Calibration Date:	26-Feb-16 10:05:33
are Version:	WL INSITE R4.6.0 (Build 4)	Calibration Version:	1
Tool Name:	ACRt Instrument - 11055059		

SONDE OFFSET			
Subarray	R12KHz	R36KHz	R72KHz
	(mmho/m)	(mmho/m)	(mmho/m)
A1 (80")	-1.138	-4.394	-4.225
A2 (50")	-1.269	-3.123	-3.680
A3 (29")	-12.811	-3.259	-2.357
A4 (17")	-101.826	-29.487	-22.428
A5 (10")	N/A	-77.638	-37.572
A6 (6")	N/A	336.130	167.110

PASS/FAIL SUMMARY	
GAIN RANGE CHK	PASS
SONDE OFFSET CHK	PASS

CALIBRATION SUMMARY

Data: BENSCH-4\0001 GTET-DSN-SDL-FLX-XRMI-ACRT\IDLE

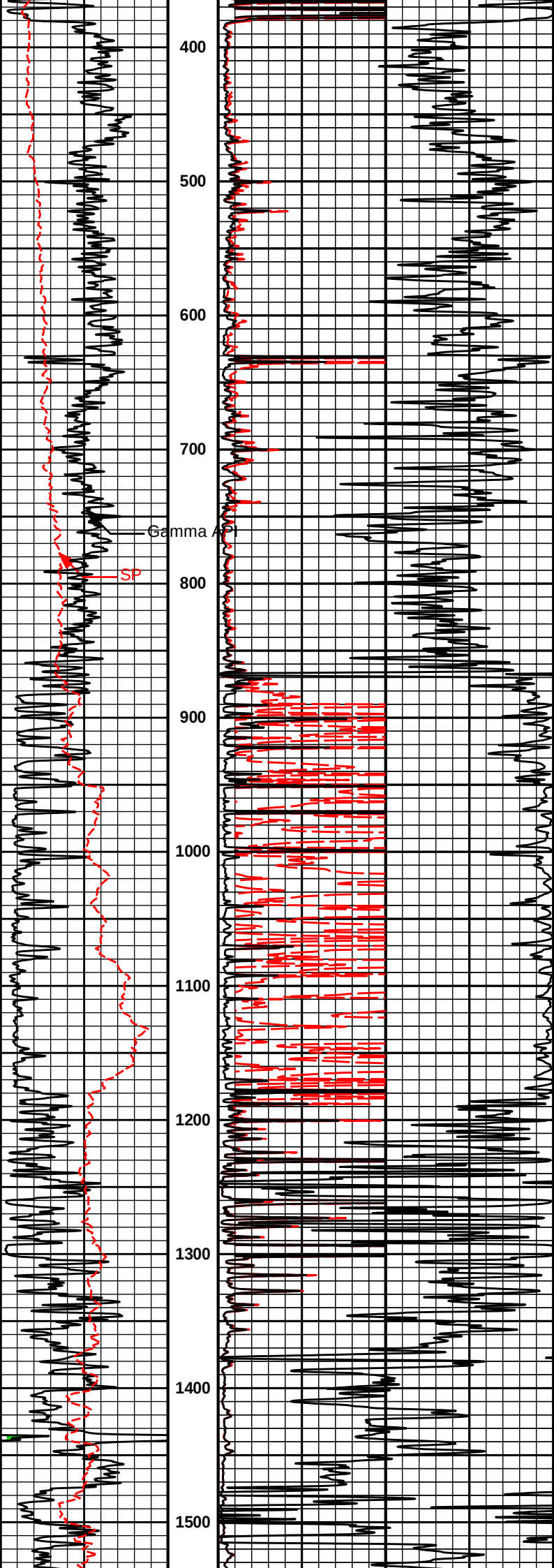
Date: 29-Apr-16 03:17:41

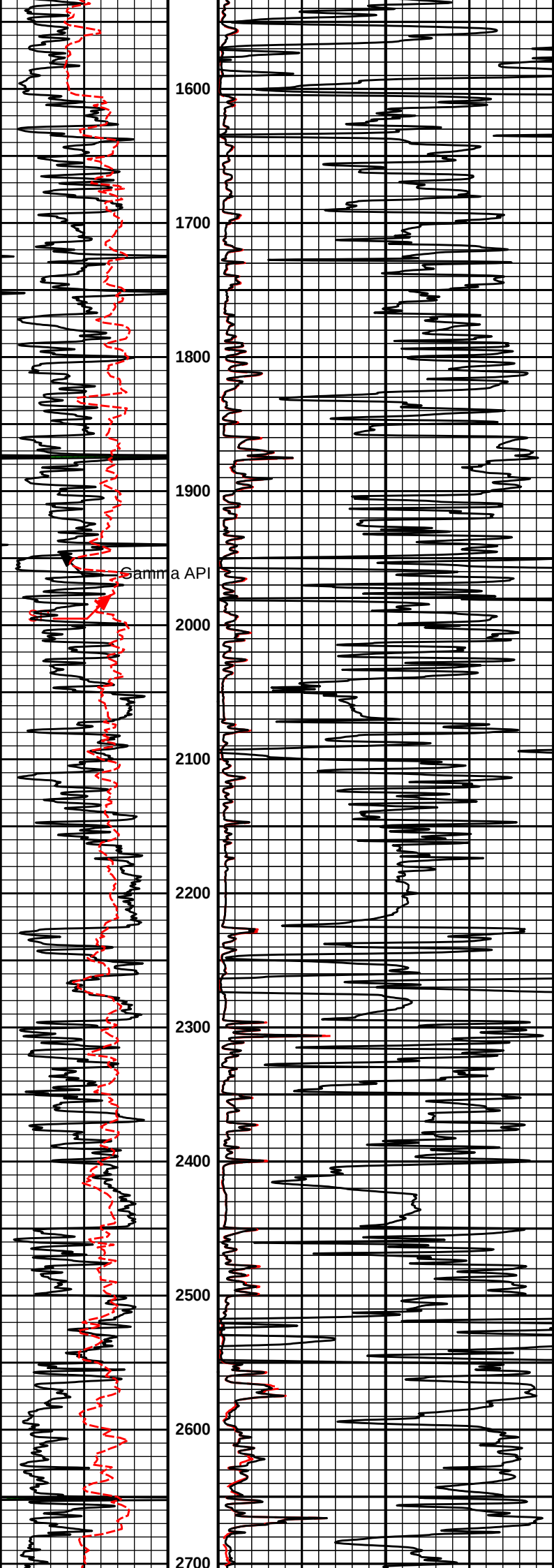
HALLIBURTON

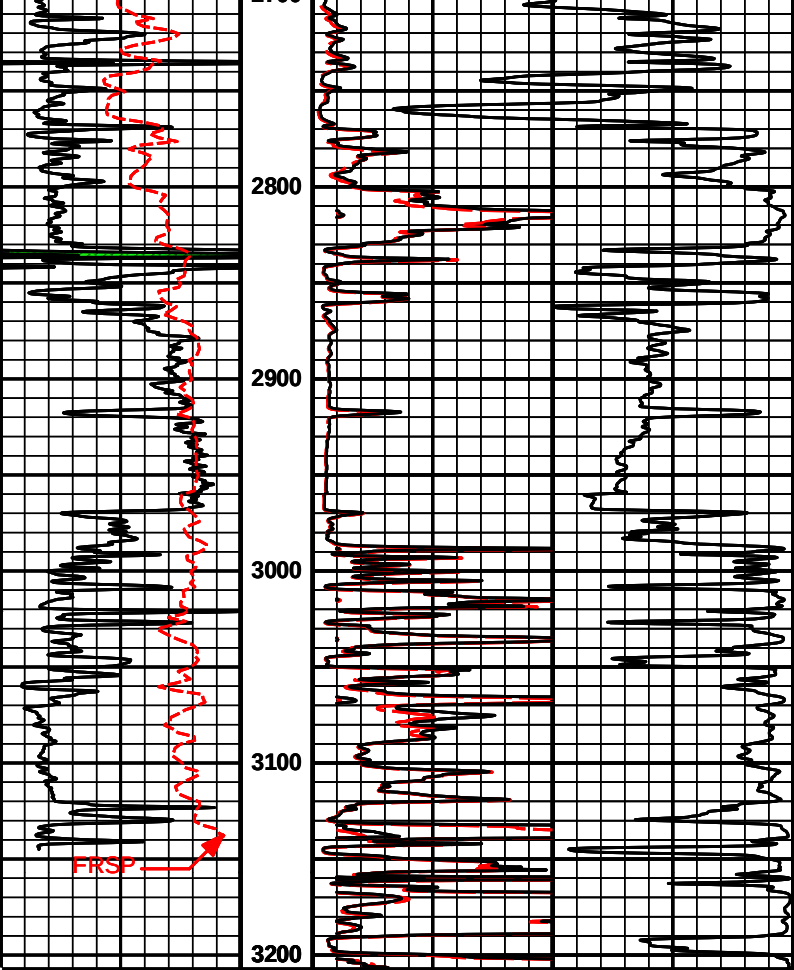
Inputs, Delays and Filters Table				
Mnemonic	Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel				
TENS	Tension	0.00	NO	
Rwa / CrossPlot				
TPUL	Tension Pull	87.45	NO	
BS	Bit Size	87.45	NO	
HDIA	Measured Hole Diameter	0.00	NO	
CH_HOS				
DHTN	DownholeTension	0.00	BLK	0.000
SP Sub				
PLTC	Plot Control Mask	81.69	NO	
SP	Spontaneous Potential	81.69	BLK	1.250
SPR	Raw Spontaneous Potential	81.69	NO	
SPO	Spontaneous Potential Offset	81.69	NO	
GTET				
TPUL	Tension Pull	73.67	NO	
GR	Natural Gamma Ray API	73.67	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	73.67	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	73.67	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	63.43	NO	
RNDS	Near Detector Telemetry Counts	63.53	BLK	1.417
RFDS	Far Detector Telemetry Counts	64.28	TRI	0.583
DNTT	DSN Tool Temperature	63.53	NO	
DSNS	DSN Tool Status	63.43	NO	
ERND	Near Detector Telemetry Counts EVR	63.53	BLK	0.000
ERFD	Far Detector Telemetry Counts EVR	64.28	BLK	0.000
ENTM	DSN Tool Temperature EVR	63.53	NO	
HDIA	Measured Hole Diameter	0.00	NO	
SDLT				
TPUL	Tension Pull	53.53	NO	
PCAL	Pad Caliper	53.53	TRI	0.250
ACAL	Arm Caliper	53.53	TRI	0.250
XRMI-I Mandrel				
TPUL	Tension Pull	22.35	NO	
PAD1	XRMI Pad 1 values	22.12	NO	
PAD2	XRMI Pad 2 values	22.12	NO	
PAD3	XRMI Pad 3 values	22.12	NO	
PAD4	XRMI Pad 4 values	22.12	NO	
PAD5	XRMI Pad 5 values	22.12	NO	
PAD6	XRMI Pad 6 values	22.12	NO	
OD1	EMI Odd Button Values Pad 1	22.12	NO	
OD2	EMI Odd Button Values Pad 2	22.35	NO	
OD3	EMI Odd Button Values Pad 3	22.12	NO	
OD4	EMI Odd Button Values Pad 4	22.35	NO	
OD5	EMI Odd Button Values Pad 5	22.12	NO	
OD6	EMI Odd Button Values Pad 6	22.35	NO	
EV1	EMI Even Button Values Pad 1	22.14	NO	

EV1	EMI Even Button Values Pad 1	22.14	NO	
EV2	EMI Even Button Values Pad 2	22.32	NO	
EV3	EMI Even Button Values Pad 3	22.14	NO	
EV4	EMI Even Button Values Pad 4	22.32	NO	
EV5	EMI Even Button Values Pad 5	22.14	NO	
EV6	EMI Even Button Values Pad 6	22.32	NO	
ITMP	Instrument Temperature	19.58	NO	
EMIM	Tool Mode	19.58	NO	
HAZI	Hole Azimuth	21.87	NO	
HAZD	Hole Azimuth - Down Delay	22.37	NO	
ACCZ	Accelerometer Z	22.12	NO	
RB	Relative Bearing	21.87	NO	
RBD	Relative Bearing Down	22.37	NO	
TPUL	Tension Pull	22.35	NO	
FIR1	Current Button R - Pad 1	22.12	NO	
FIR2	Current Button R - Pad 2	22.35	NO	
FIR3	Current Button R - Pad 3	22.12	NO	
FIR4	Current Button R - Pad 4	22.35	NO	
FIR5	Current Button R - Pad 5	22.12	NO	
FIR6	Current Button R - Pad 6	22.35	NO	
FIX1	Current Button X - Pad 1	22.12	NO	
FIX2	Current Button X - Pad 2	22.35	NO	
FIX3	Current Button X - Pad 3	22.12	NO	
FIX4	Current Button X - Pad 4	22.35	NO	
FIX5	Current Button X - Pad 5	22.12	NO	
FIX6	Current Button X - Pad 6	22.35	NO	
SIR1	Current Slow Button R - Pad 1	22.12	BLK	3.000
SIR2	Current Slow Button R - Pad 2	22.35	BLK	3.000
SIR3	Current Slow Button R - Pad 3	22.12	BLK	3.000
SIR4	Current Slow Button R - Pad 4	22.35	BLK	3.000
SIR5	Current Slow Button R - Pad 5	22.12	BLK	3.000
SIR6	Current Slow Button R - Pad 6	22.35	BLK	3.000
SIX1	Current Slow Button X - Pad 1	22.12	BLK	3.000
SIX2	Current Slow Button X - Pad 2	22.35	BLK	3.000
SIX3	Current Slow Button X - Pad 3	22.12	BLK	3.000
SIX4	Current Slow Button X - Pad 4	22.35	BLK	3.000
SIX5	Current Slow Button X - Pad 5	22.12	BLK	3.000
SIX6	Current Slow Button X - Pad 6	22.35	BLK	3.000
EMMR	Phasor Voltage - Real Part	22.12	NO	
EMMX	Phasor Voltage - Imaginary Part	22.12	NO	
PADV	Pad Voltage	19.58	BLK	0.250
ITMP	Instrument Temperature	19.58	BLK	0.000
CON1	Conductivity Pad 1	22.12	BLK	3.000
CON2	Conductivity Pad 2	22.35	BLK	3.000
CON3	Conductivity Pad 3	22.12	BLK	3.000
CON4	Conductivity Pad 4	22.35	BLK	3.000
CON5	Conductivity Pad 5	22.12	BLK	3.000
CON6	Conductivity Pad 6	22.35	BLK	3.000
UIR2	Current Button R No Delay - Pad 2	22.12	NO	
UIR4	Current Button R No Delay - Pad 4	22.12	NO	
UIR6	Current Button R No Delay - Pad 6	22.12	NO	
UIX2	Current Button X No Delay - Pad 2	22.12	NO	
UIX4	Current Button X No Delay - Pad 4	22.12	NO	
UIX6	Current Button X No Delay - Pad 6	22.12	NO	
HDIA	Measured Hole Diameter	0.00	NO	
TPUL	Tension Pull	22.35	NO	
ARM1	Caliper 1 measurement	22.12	BLK	0.000
ARM2	Caliper 2 measurement	22.12	BLK	0.000
ARM3	Caliper 3 measurement	22.12	BLK	0.000

ARM4	Caliper 4 measurement	22.12	BLK	0.000
ARM5	Caliper 5 measurement	22.12	BLK	0.000
ARM6	Caliper 6 measurement	22.12	BLK	0.000
MOTV	Motor Voltage 1	22.12	BLK	0.000
PRES	Caliper percentage of total compression of the spring	19.58	BLK	0.000
HAZI	Hole Azimuth	22.12	NO	
RB	Relative Bearing	22.12	NO	
AZI1	PAD1 Azimuth	22.12	NO	
DEVI	Inclination	22.12	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
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	







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: 29-Apr-16 04:56:30
Plot Range: 250 ft to 3207.25 ft
Data: BENSCH-4\Well Based\MAIN\
Plot File: \\LOCAL-BENSCH-4\Well Based\ACRT\ACRT_1_lib

1 INCH MAIN LOG

COMPANY	LEBSACK OIL PRODUCTION INC		
WELL	BENSCH #4		
FIELD	GROVE		
COUNTY	RICE	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	