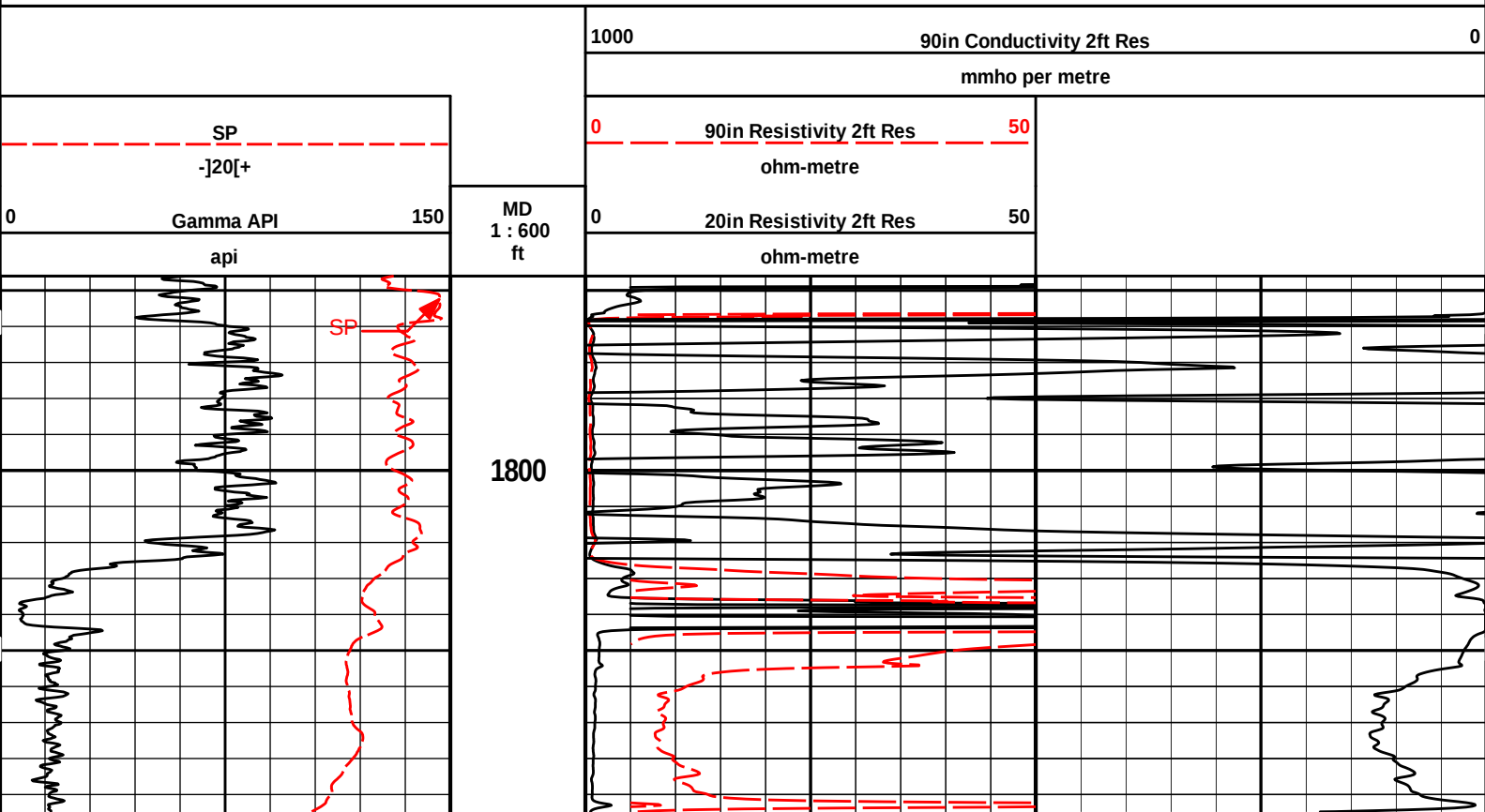


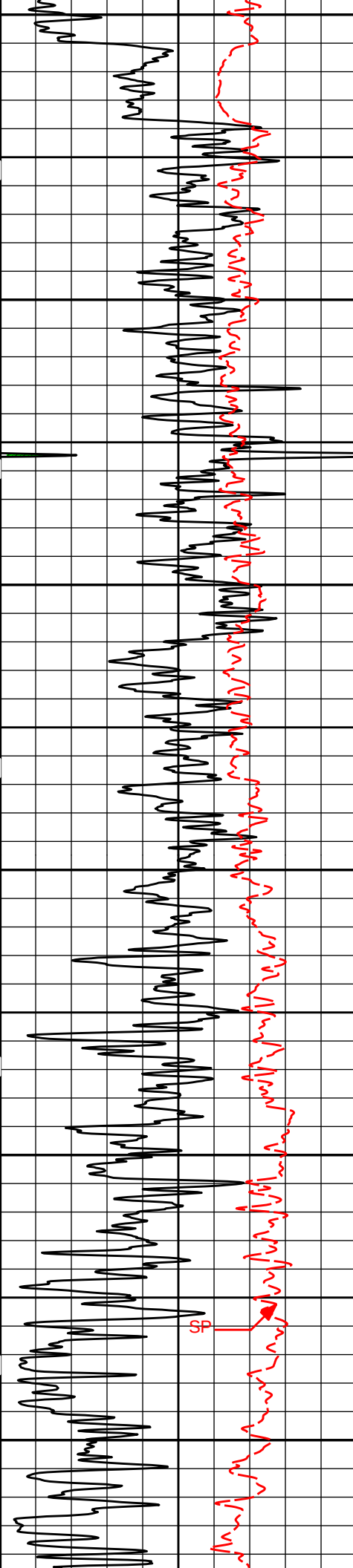
ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

Fold here

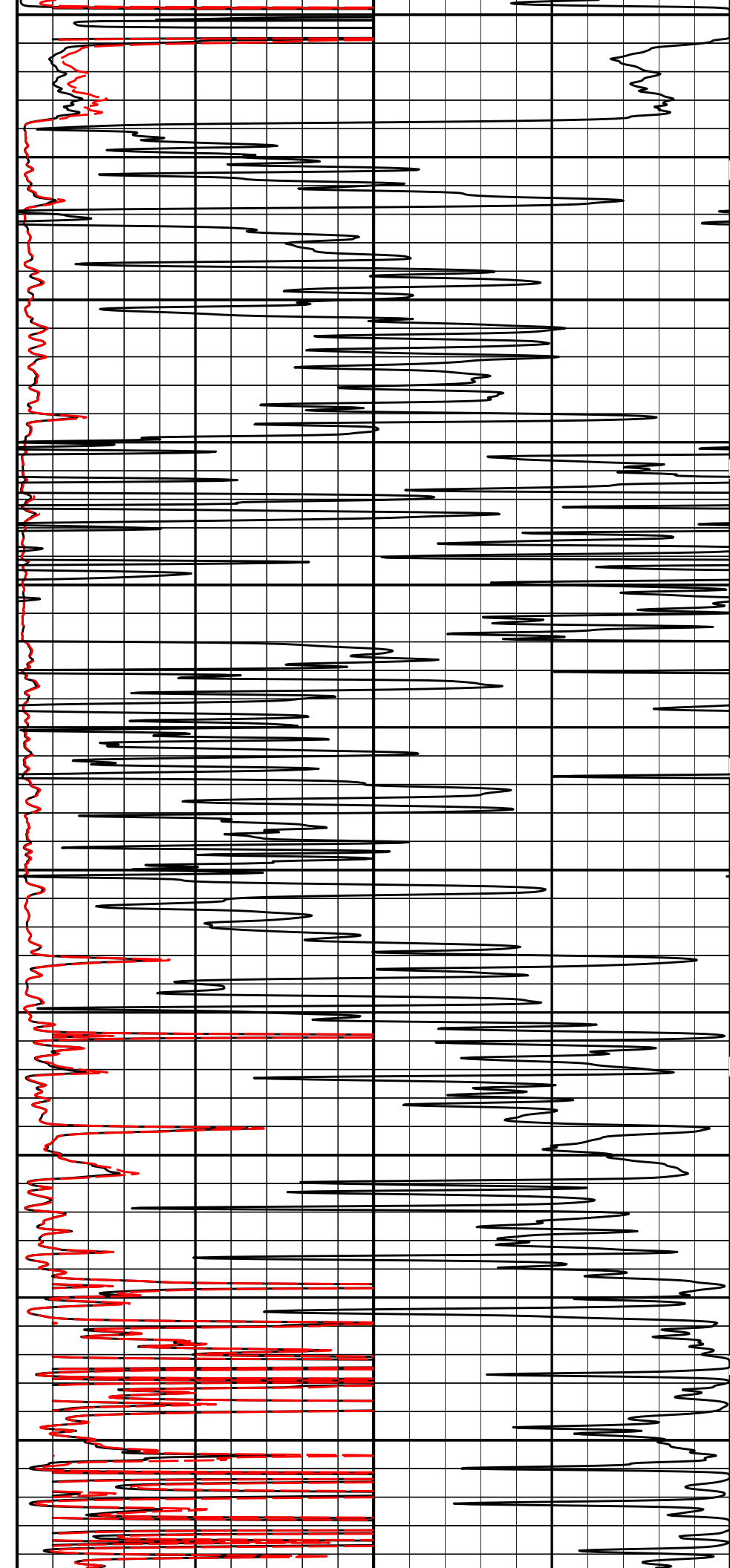
LOGGING DATA

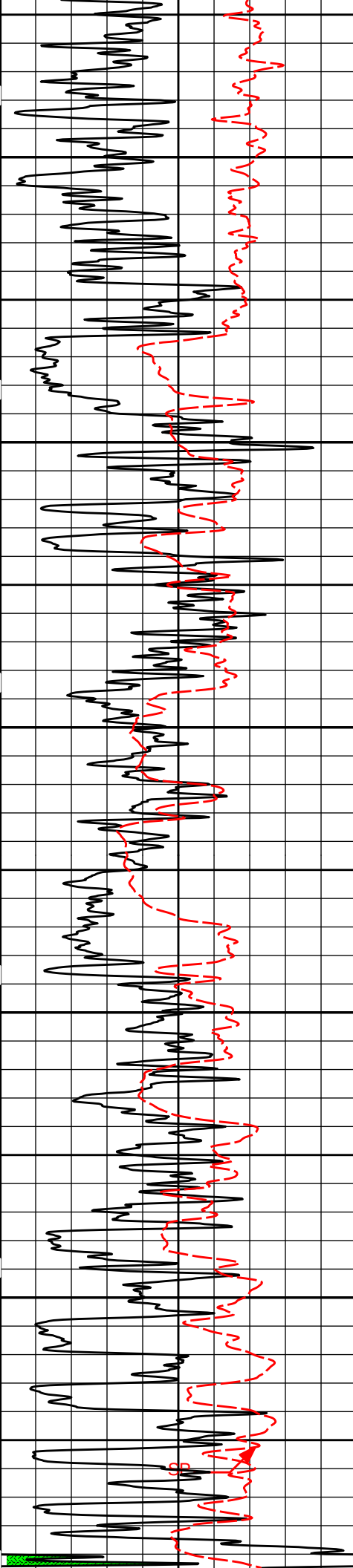
GENERAL				GAMMA		ACOUSTIC			DENSITY			NEUTRON				
Run	Depth		Speed	Scale		Scale		Matrix	Scale		Matrix	Scale		Matrix		
No.	From	To	ft/min	L	R	L	R		L	R		L	R			
ONE	5402	1756	REC	0	150											
DIRECTIONAL INFORMATION																
Maximum Deviation								@	KOP							@
Remarks: ANNULAR HOLE VOLUME CALCULATED FOR 5.5 INCH CASING																
LCM REPORTED AT 2 PPB																
CHLORIDES REPORTED AT 3500 MG/L																
TODAY'S CREW V. JAIME K. KING																
THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES LIBERAL, KANSAS 620-624-8123																
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																





1900
2000
2100
2200
2300
2400





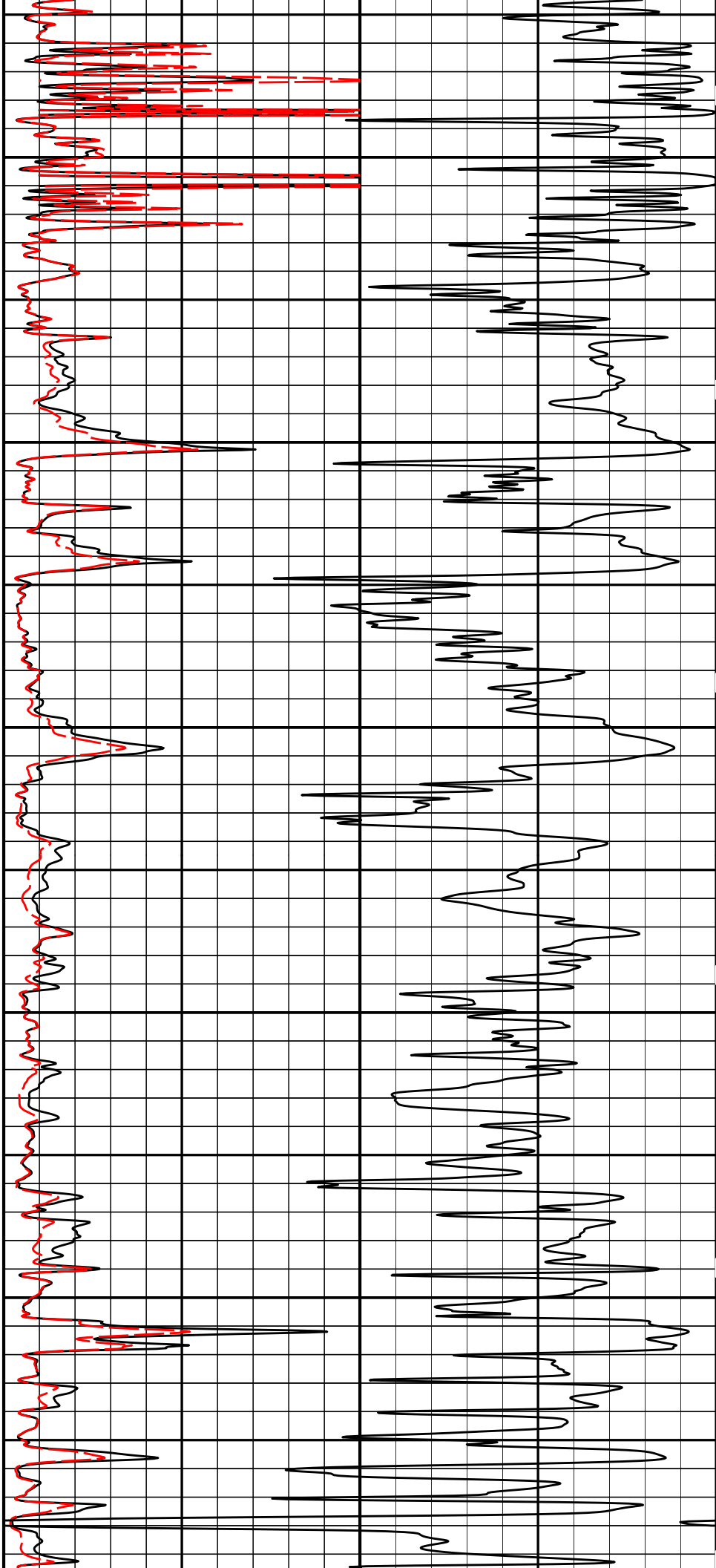
2500

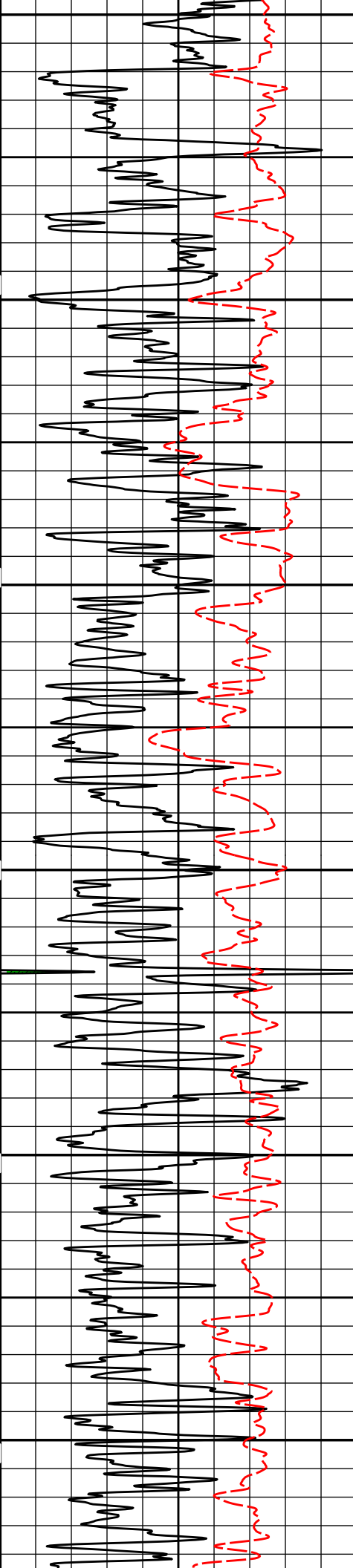
2600

2700

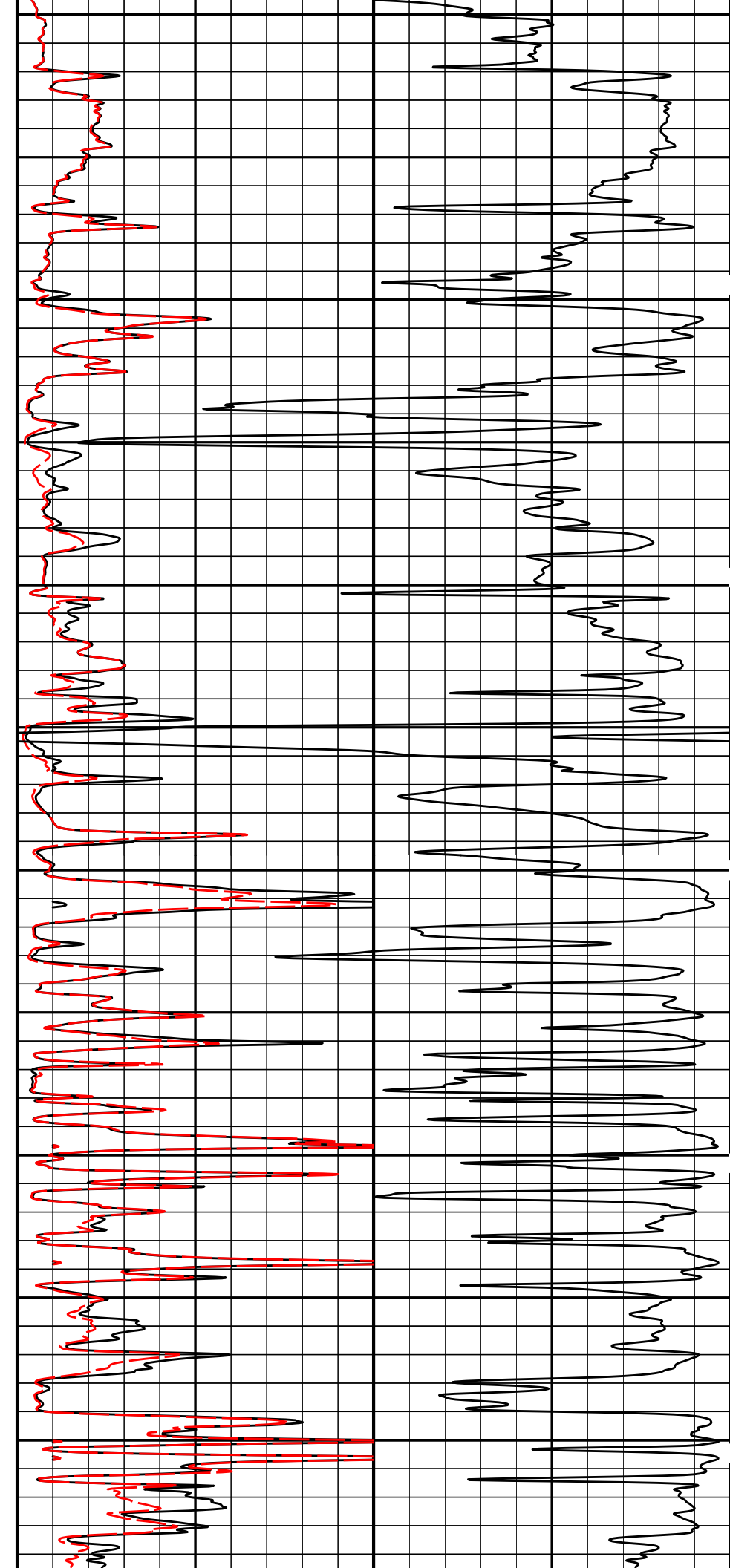
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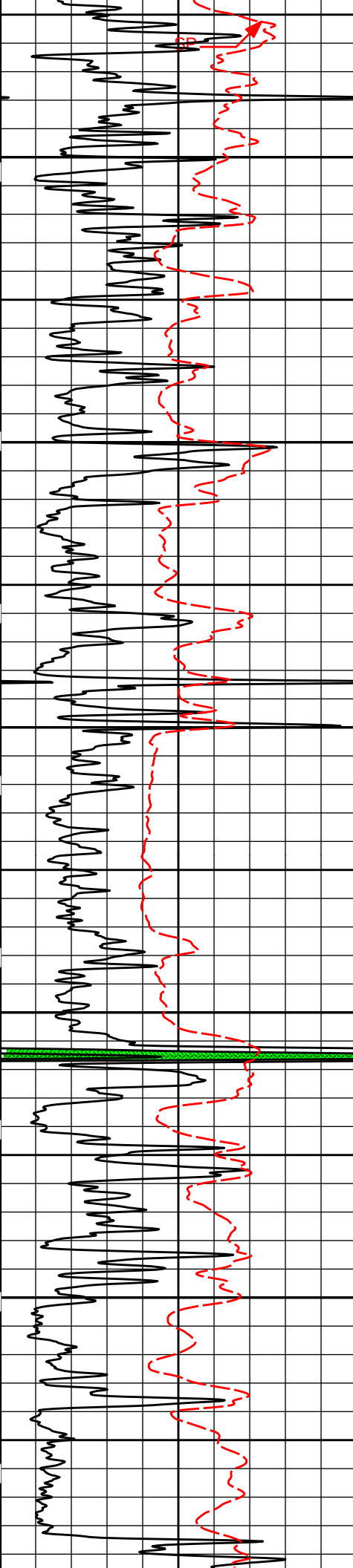
2900





3000
3100
3200
3300
3400
3500





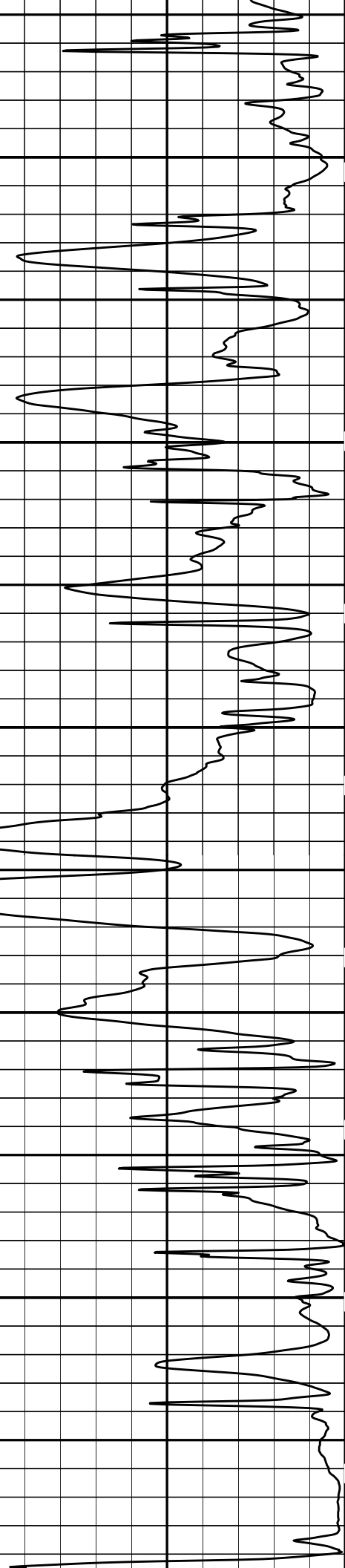
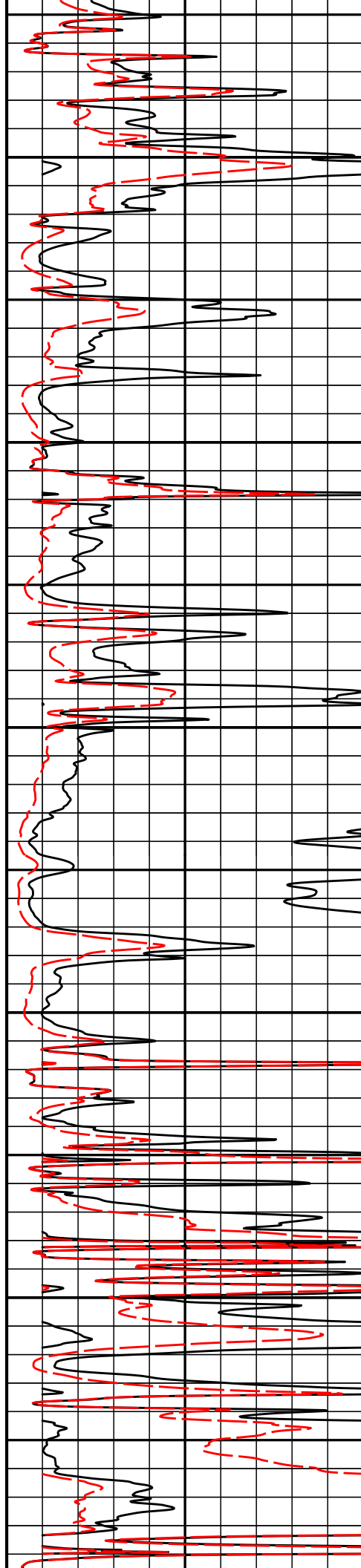
3600

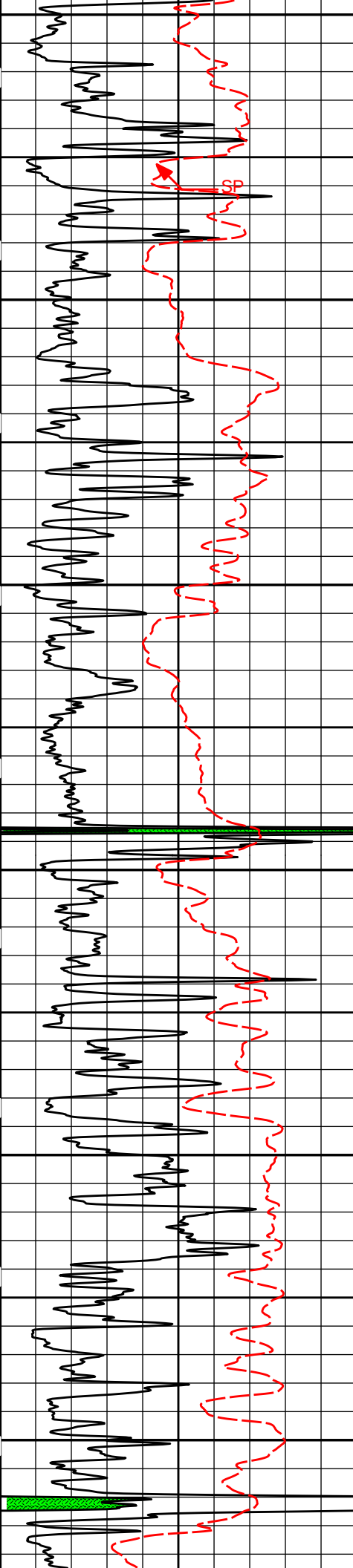
3700

3800

3900

4000





4100

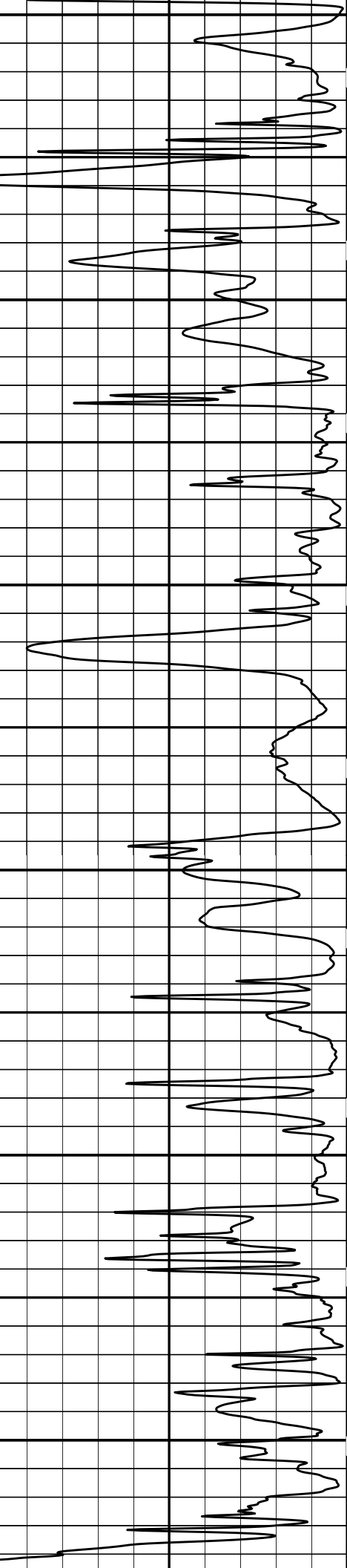
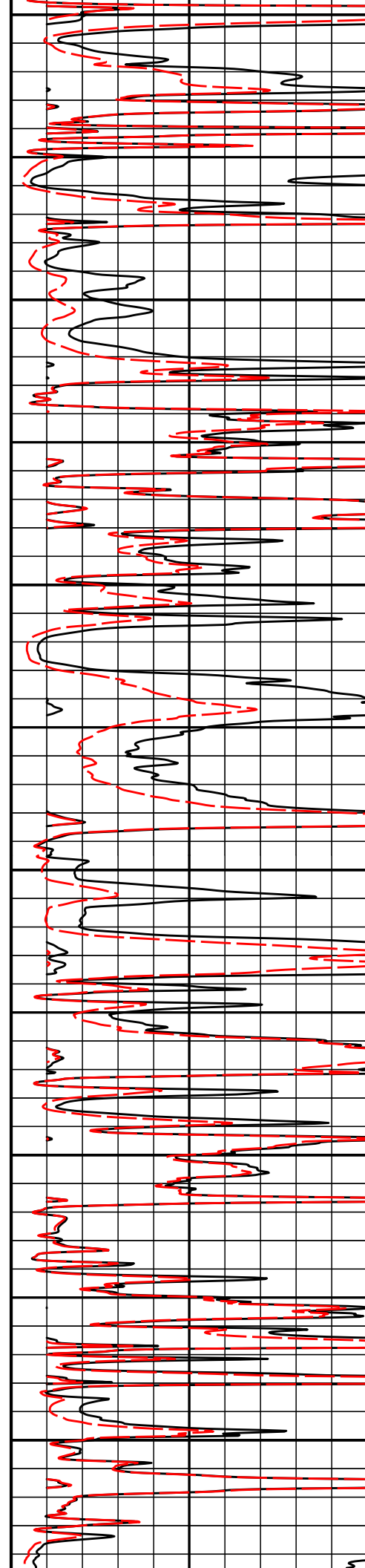
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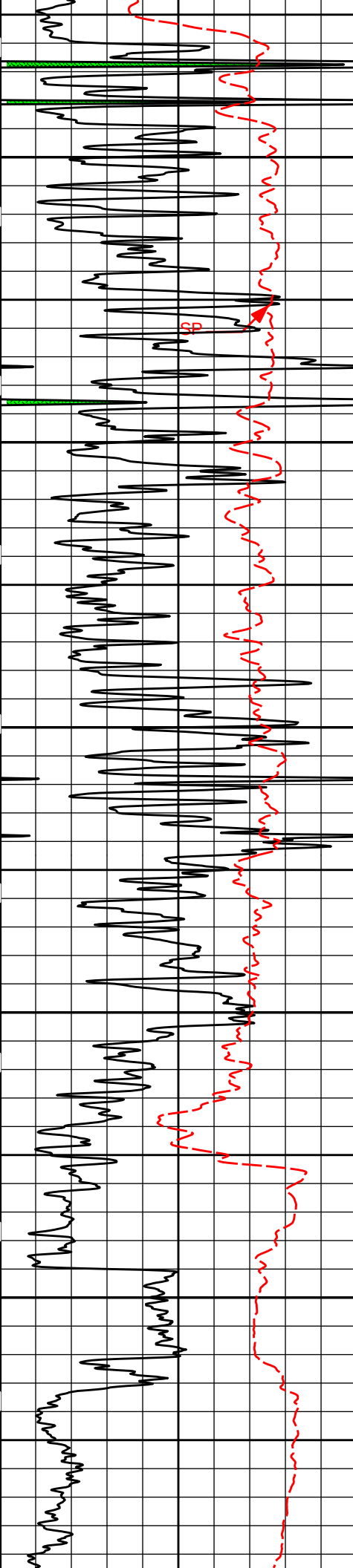
4300

4400

4500

4600





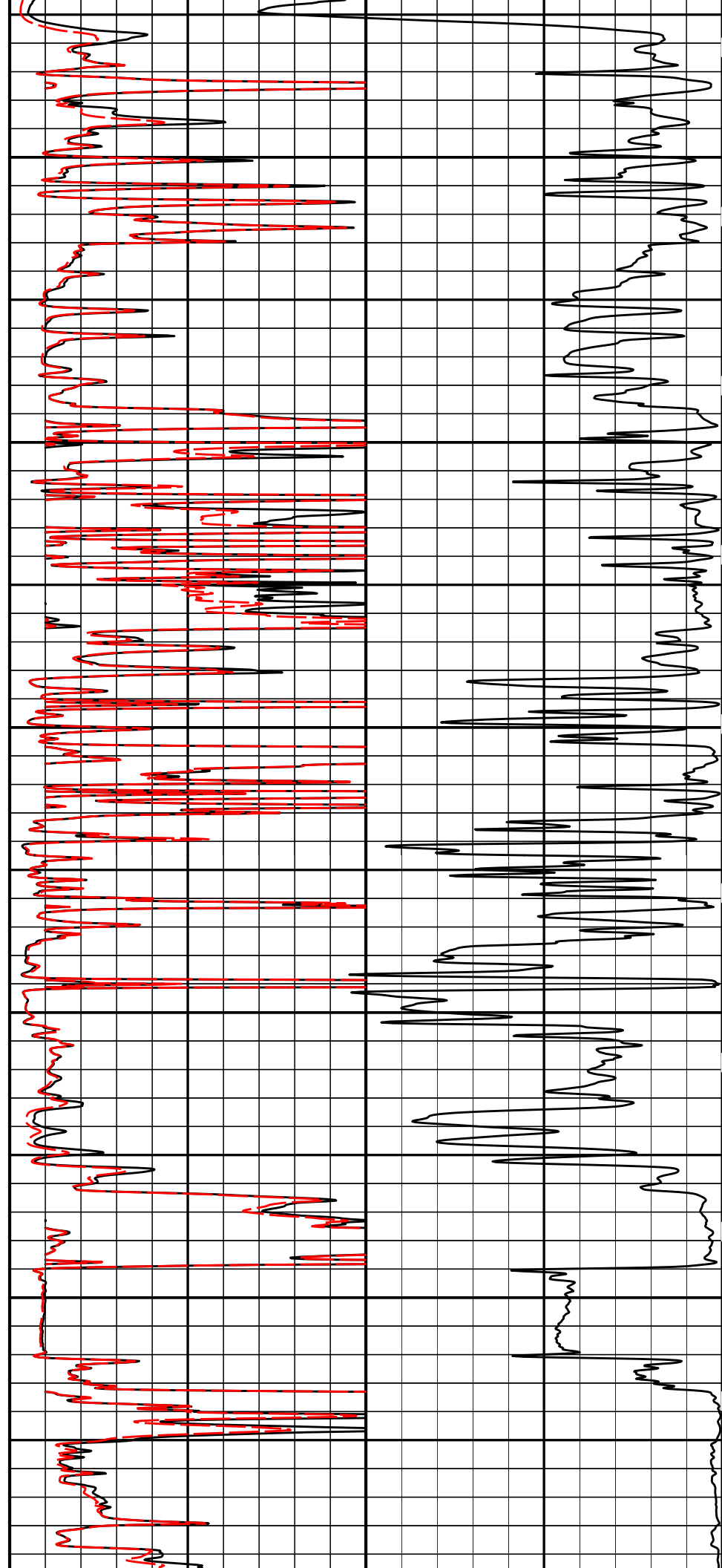
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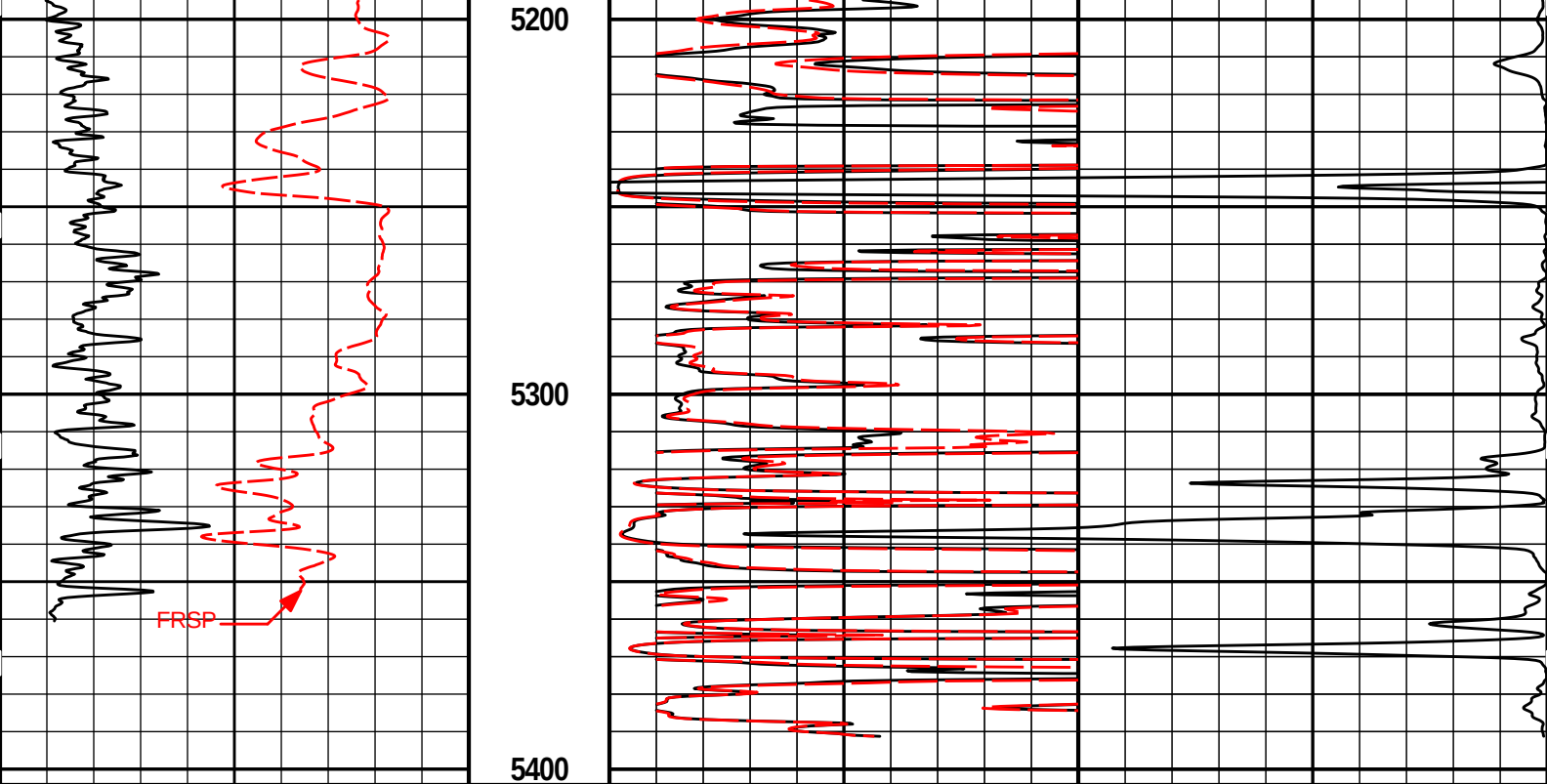
4800

4900

5000

5100





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			

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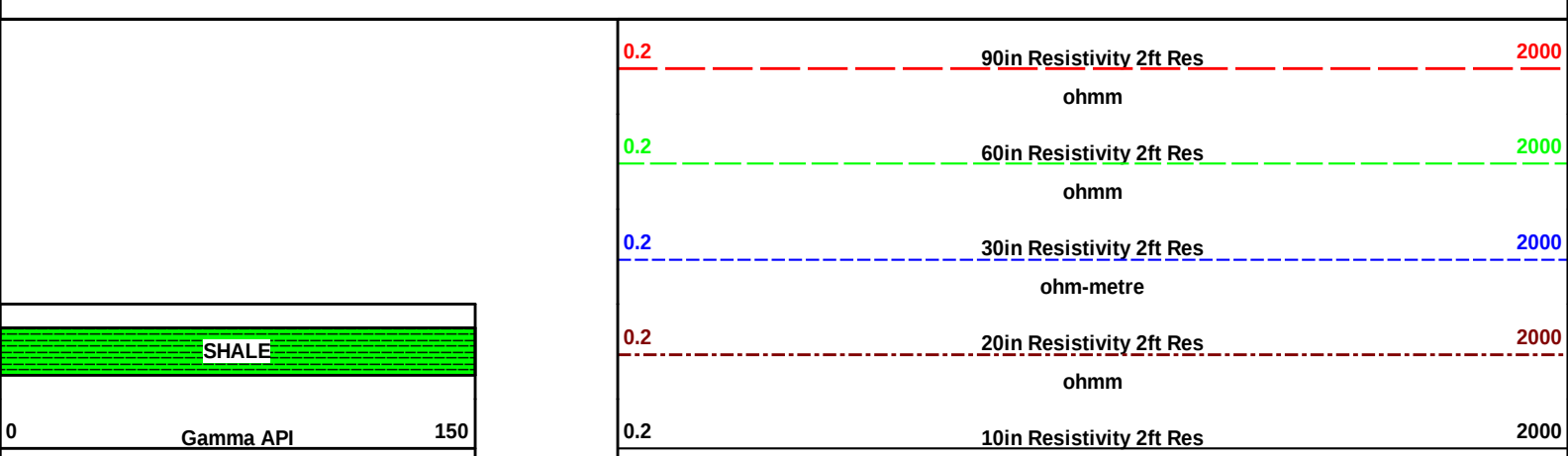
Plot Time: 13-Mar-14 10:49:03
Plot Range: 1746 ft to 5404.08 ft
Data: BARKER_2-23\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-BARKER_2-23\0001 SP-GTET-DSN-SDL-ACRT-BNIACRT\ACRT_2_lib

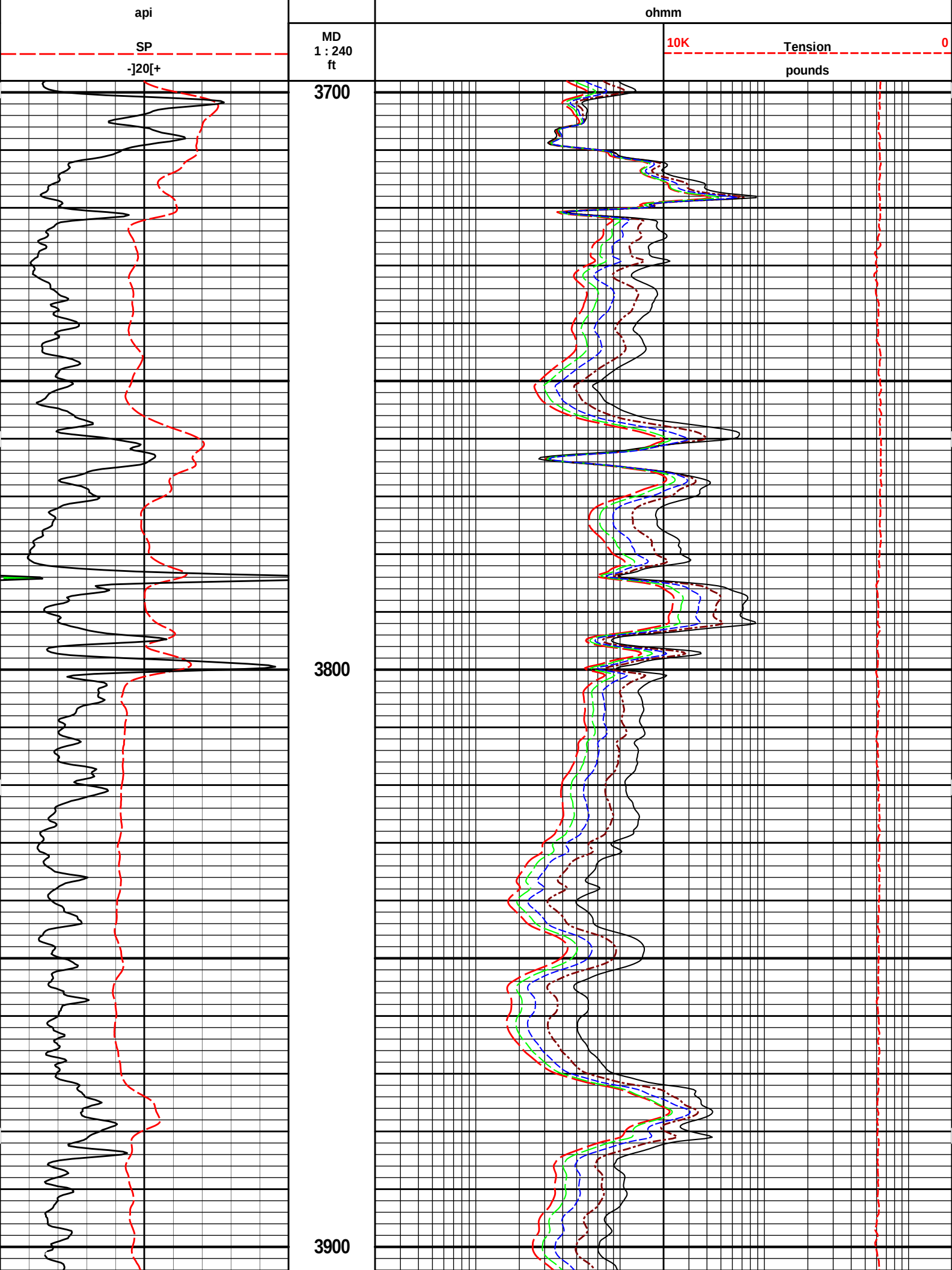
2 INCH MAIN LOG

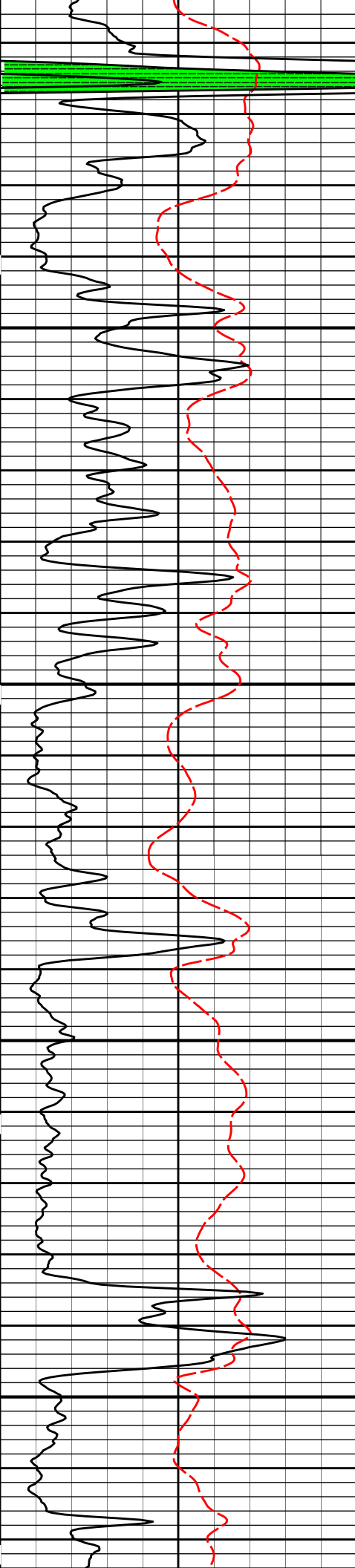
HALLIBURTON

Plot Time: 13-Mar-14 10:49:04
Plot Range: 3698 ft to 5404.08 ft
Data: BARKER_2-23\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-BARKER_2-23\0001 SP-GTET-DSN-SDL-ACRT-BNIACRT\ACRT_5_main_lib

5 INCH MAIN LOG

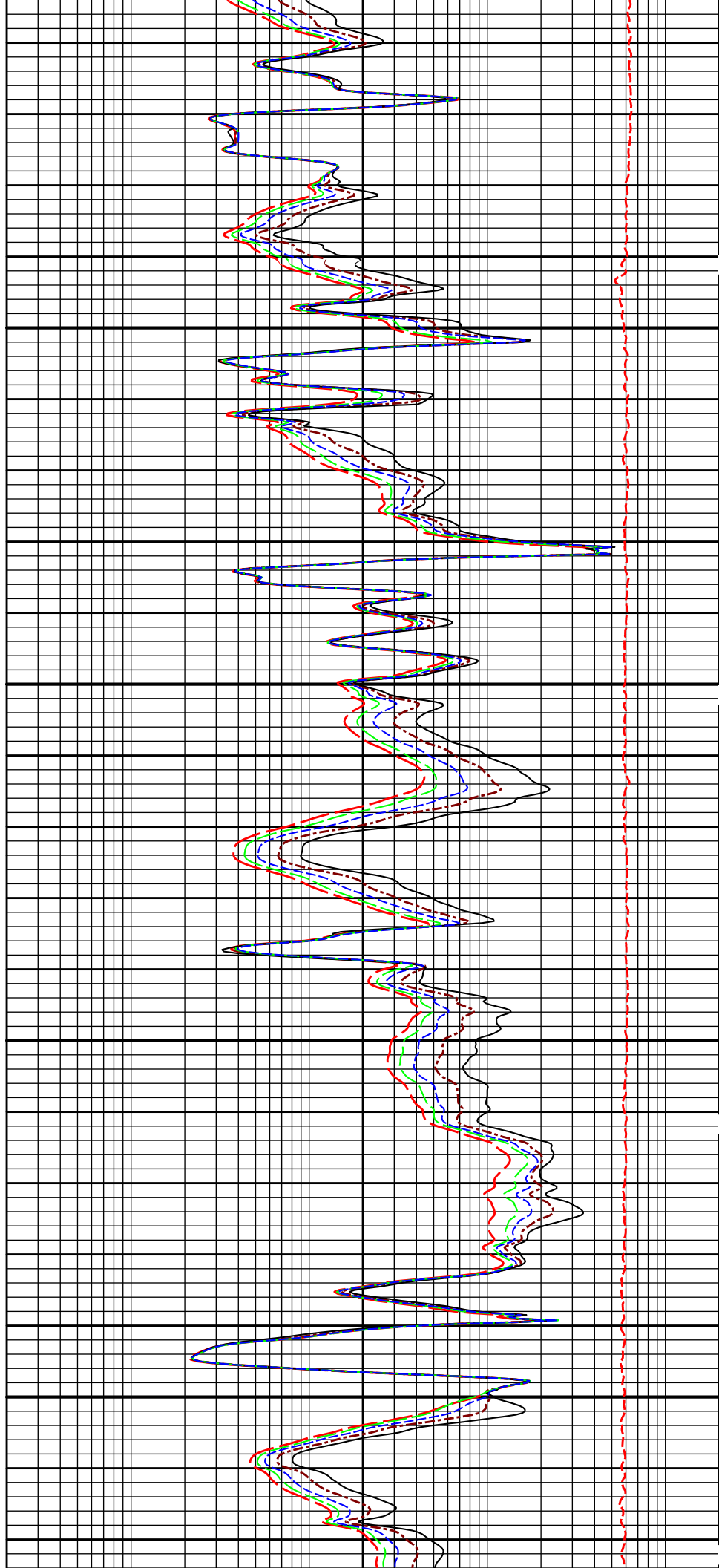


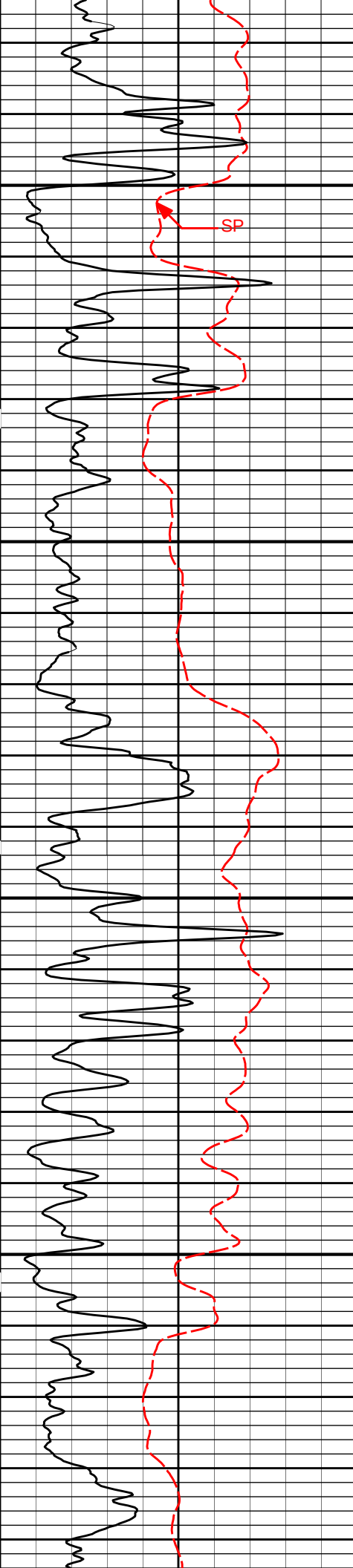




4000

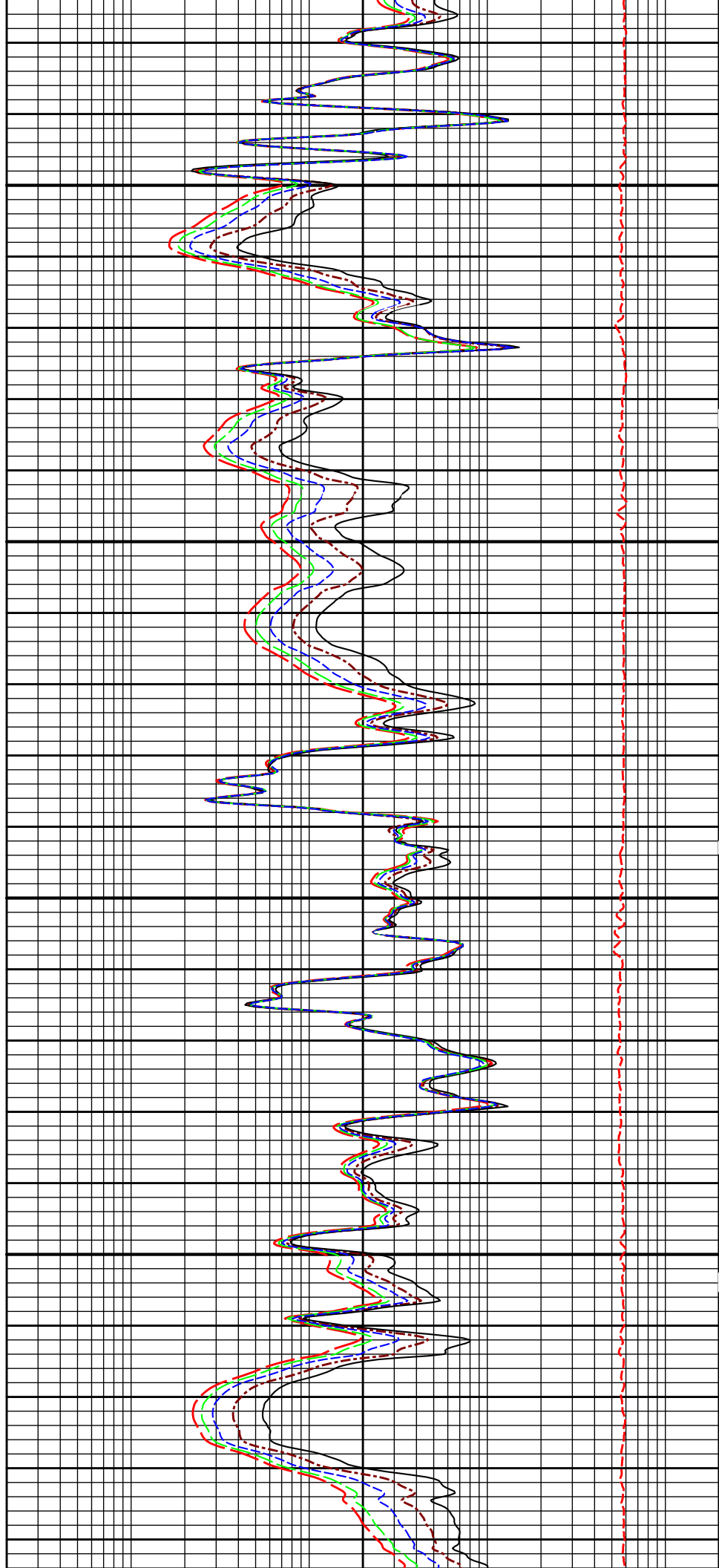
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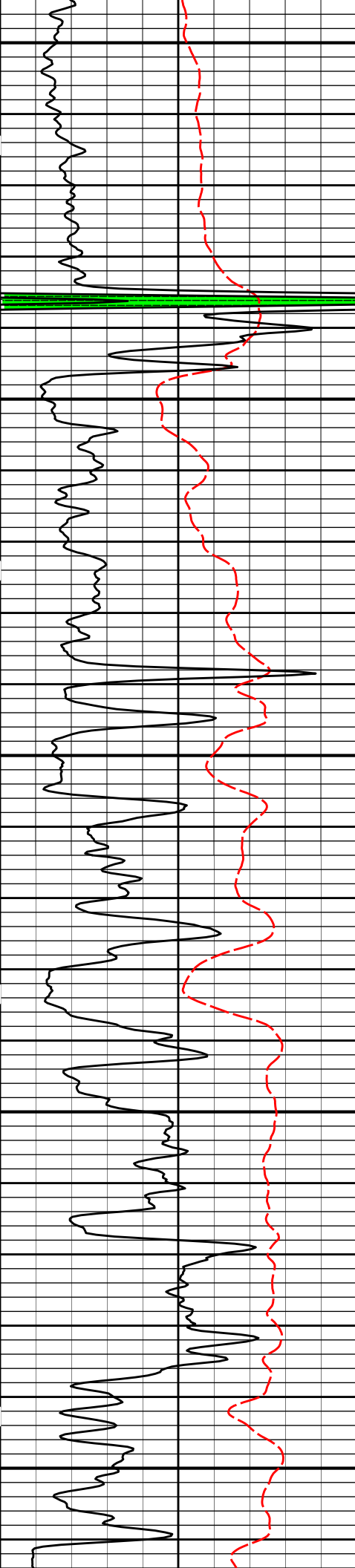




4200

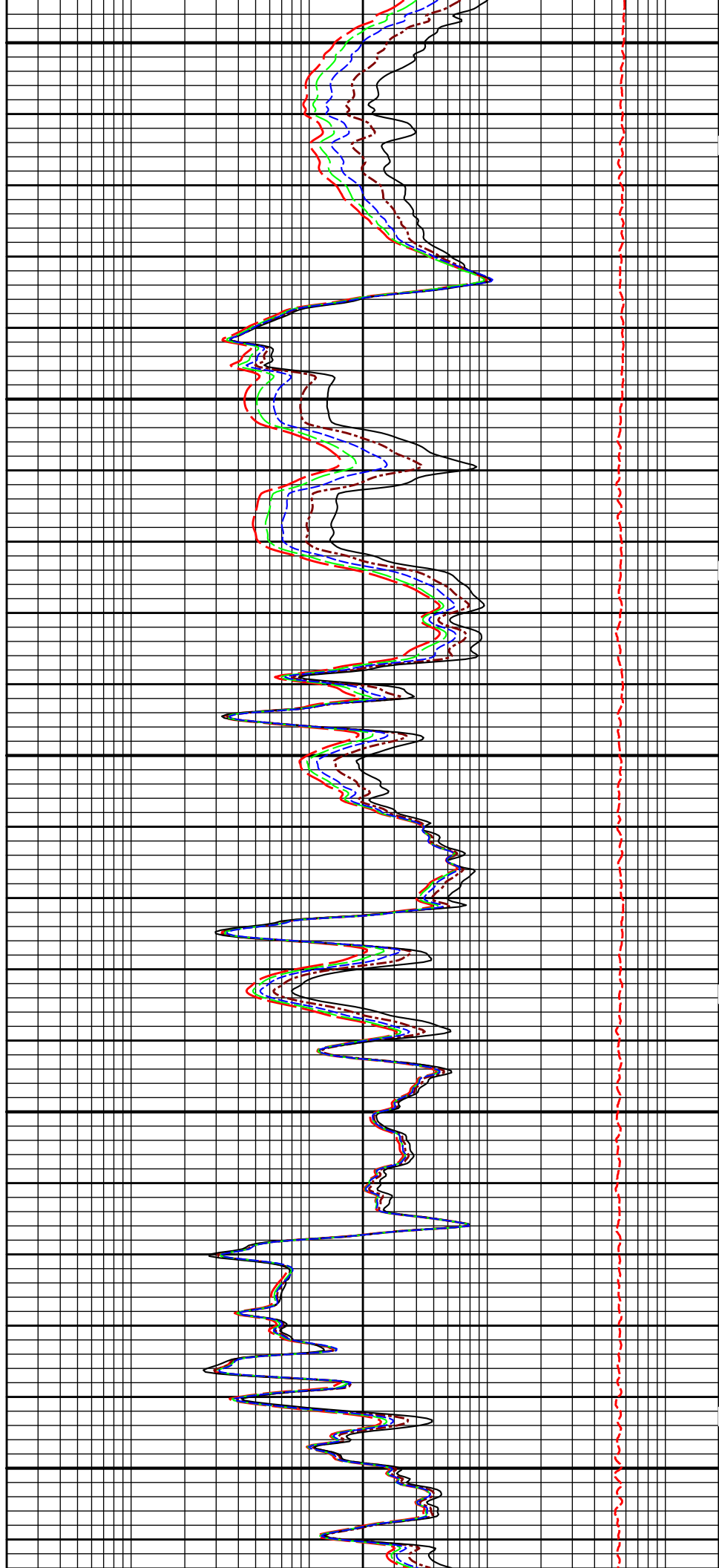
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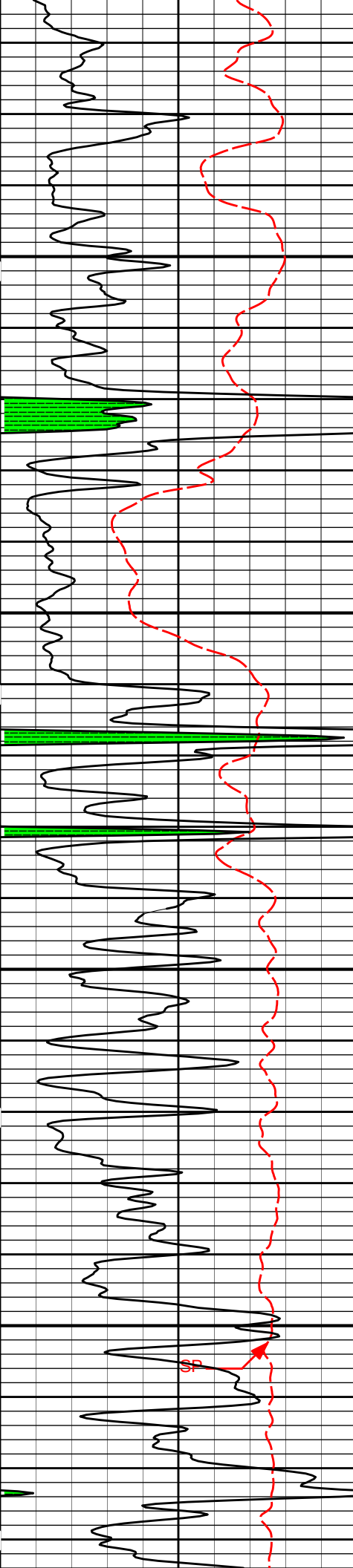




4400

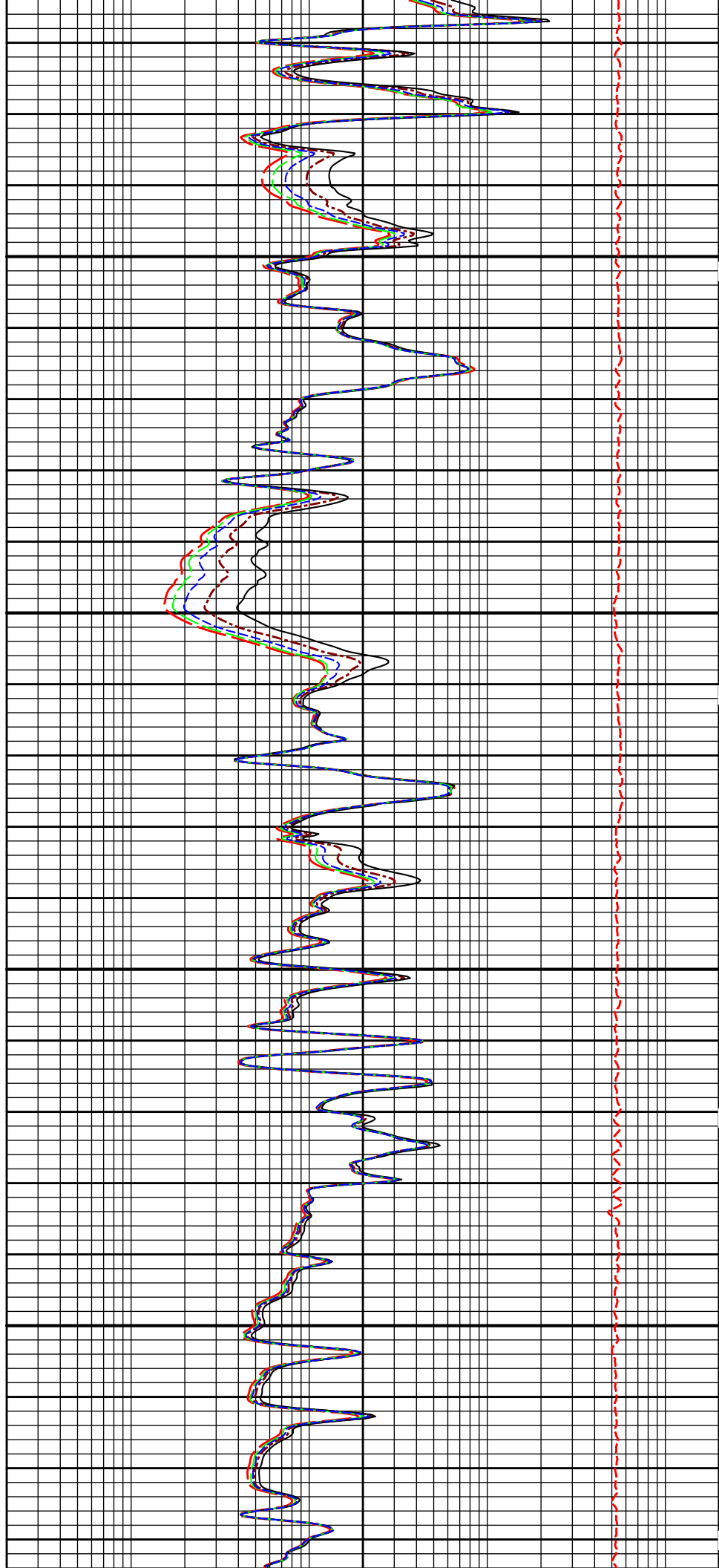
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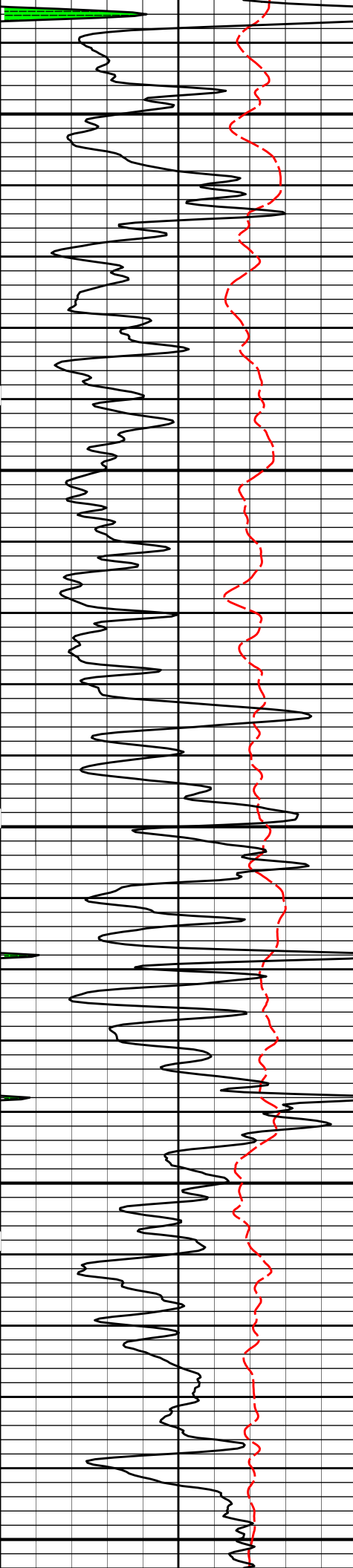




4600

4700

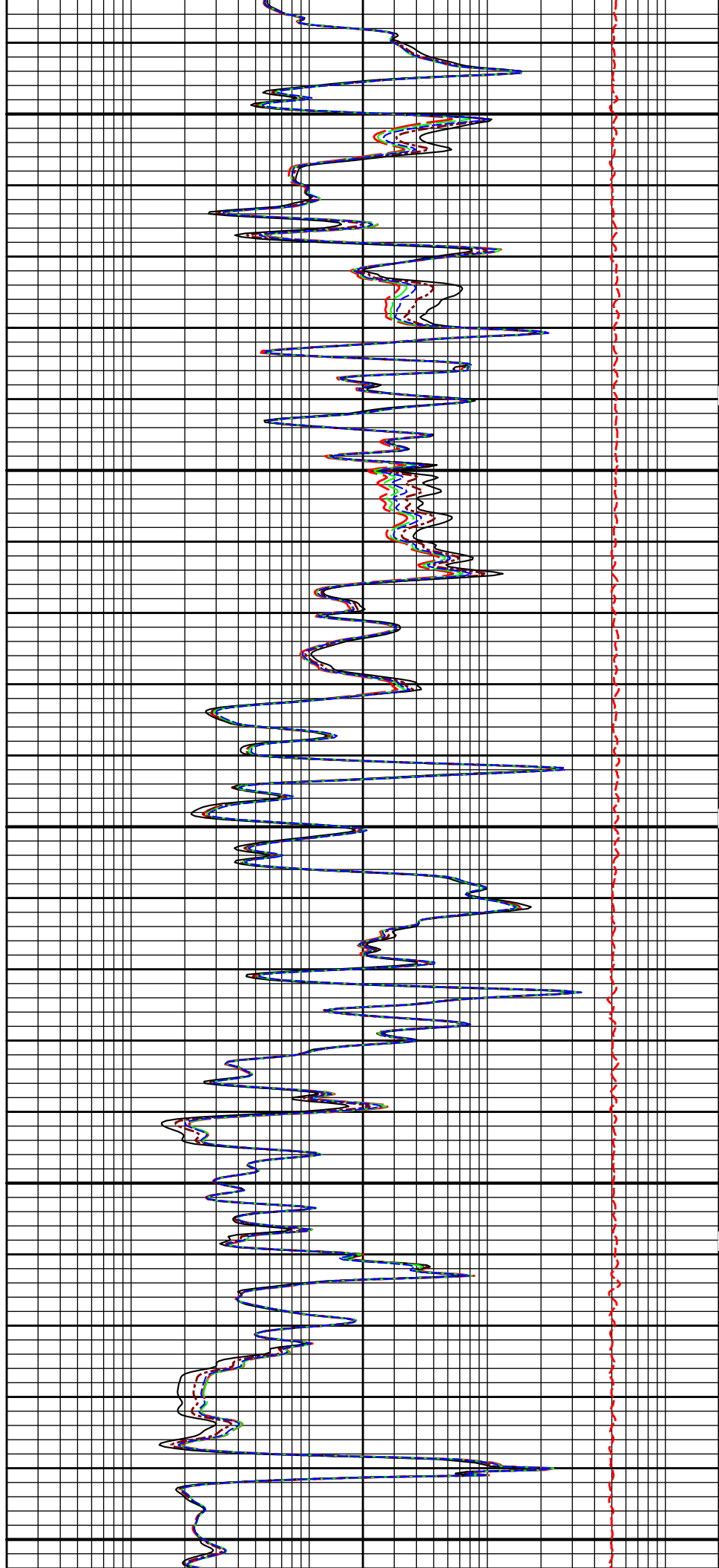


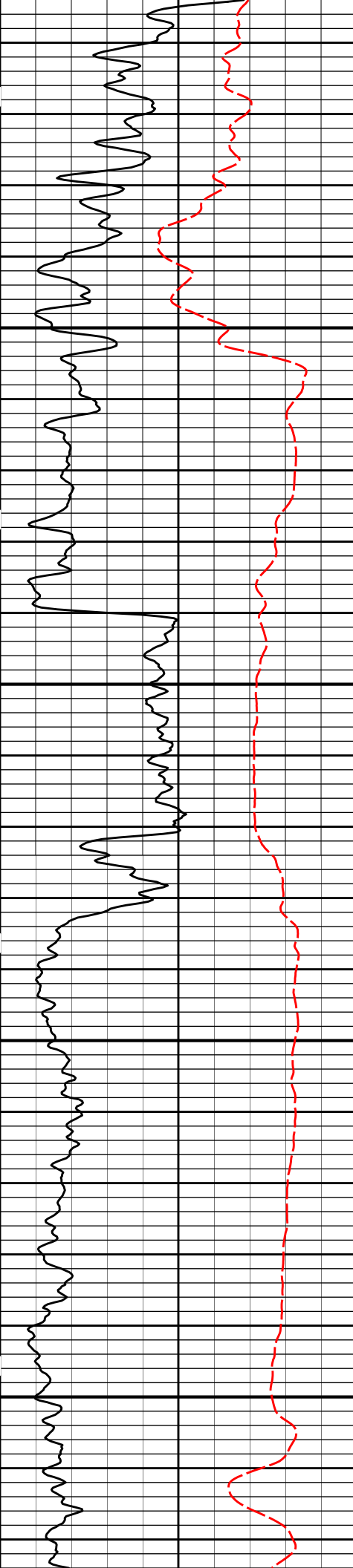


4800

4900

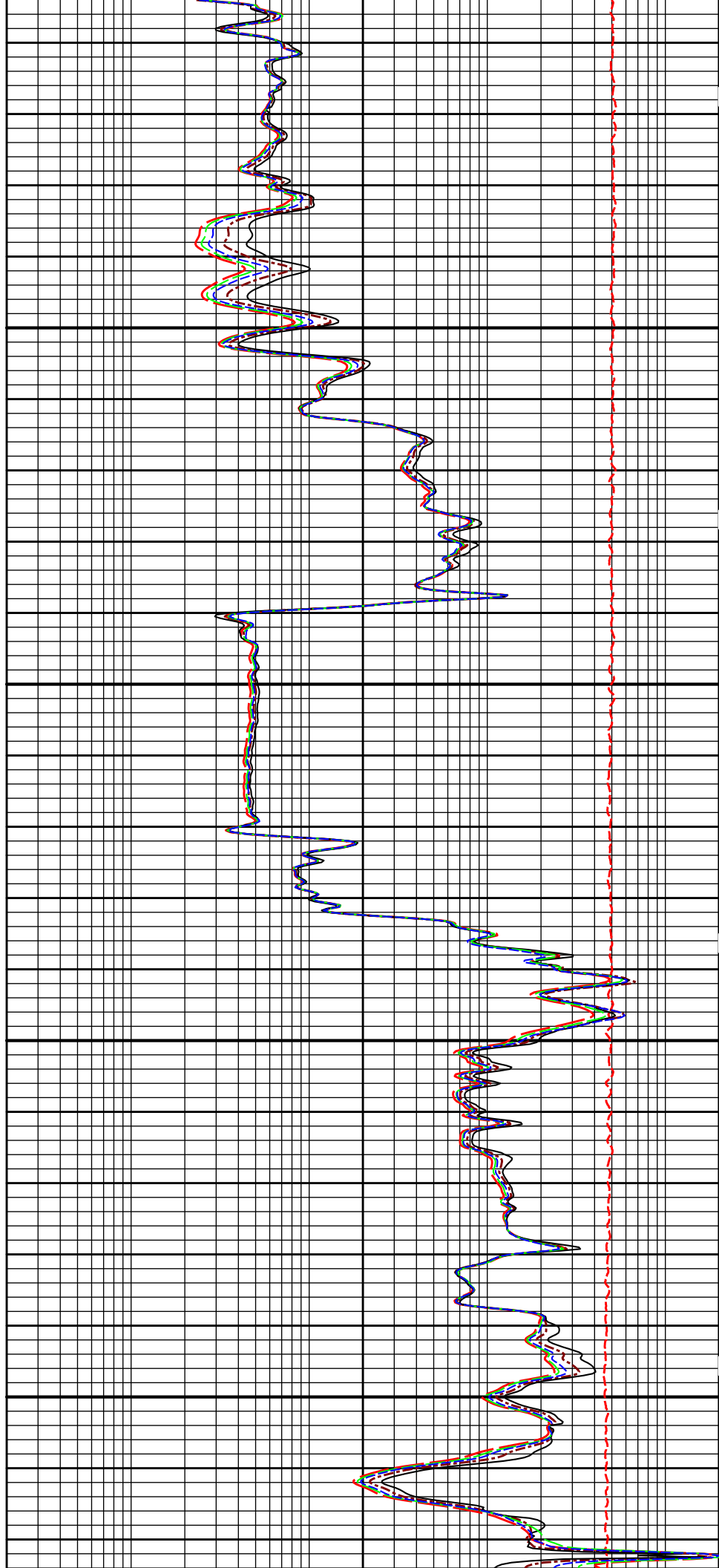
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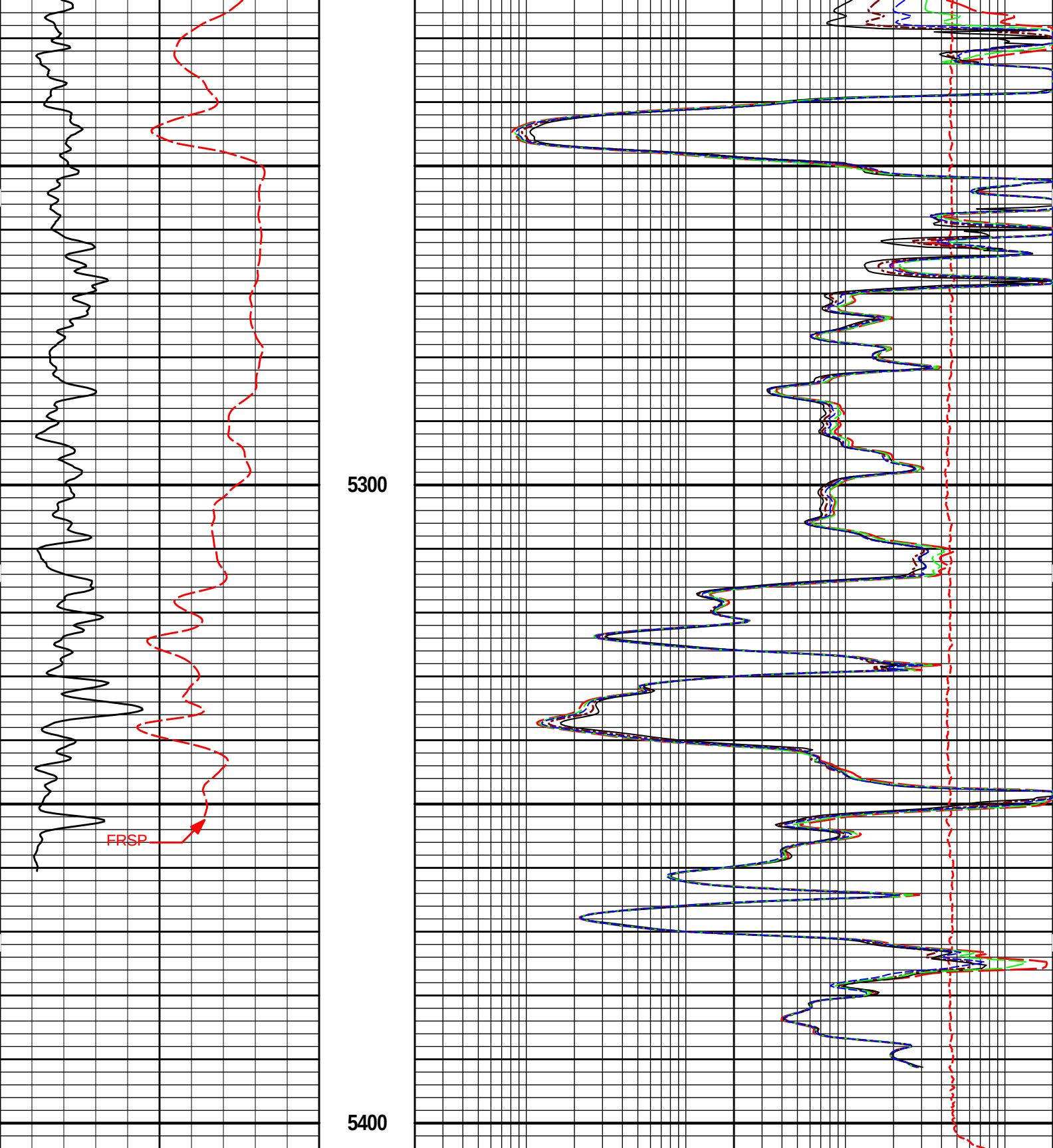




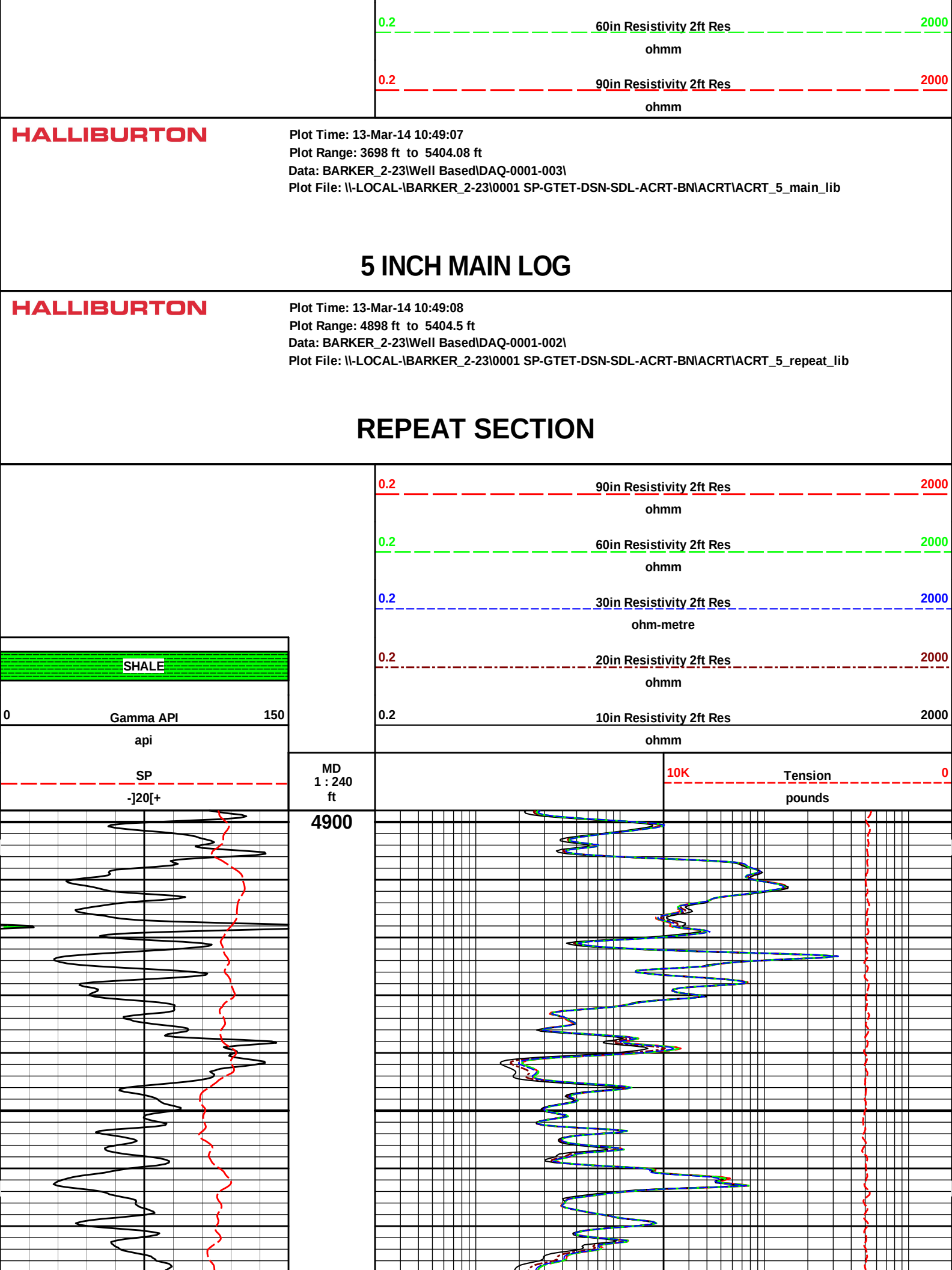
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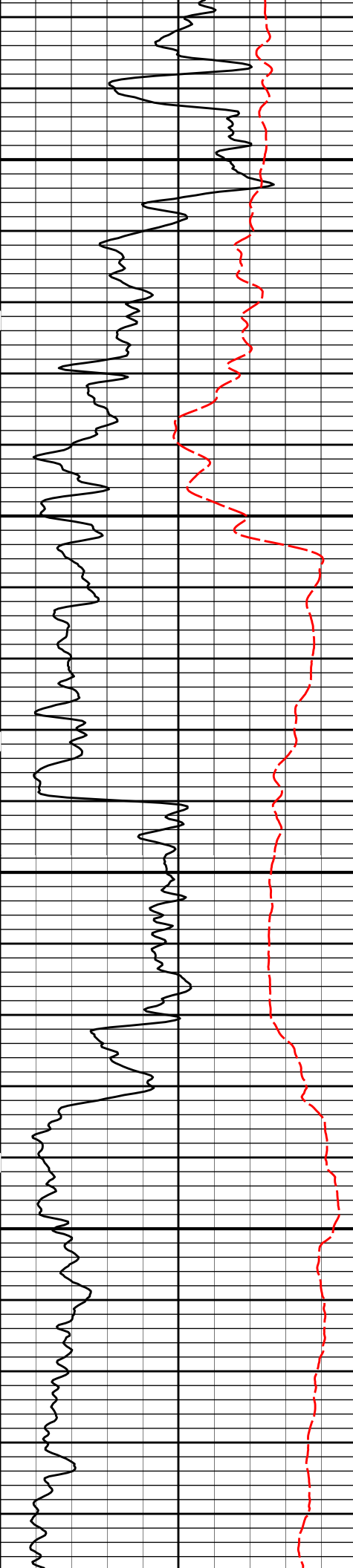
5200





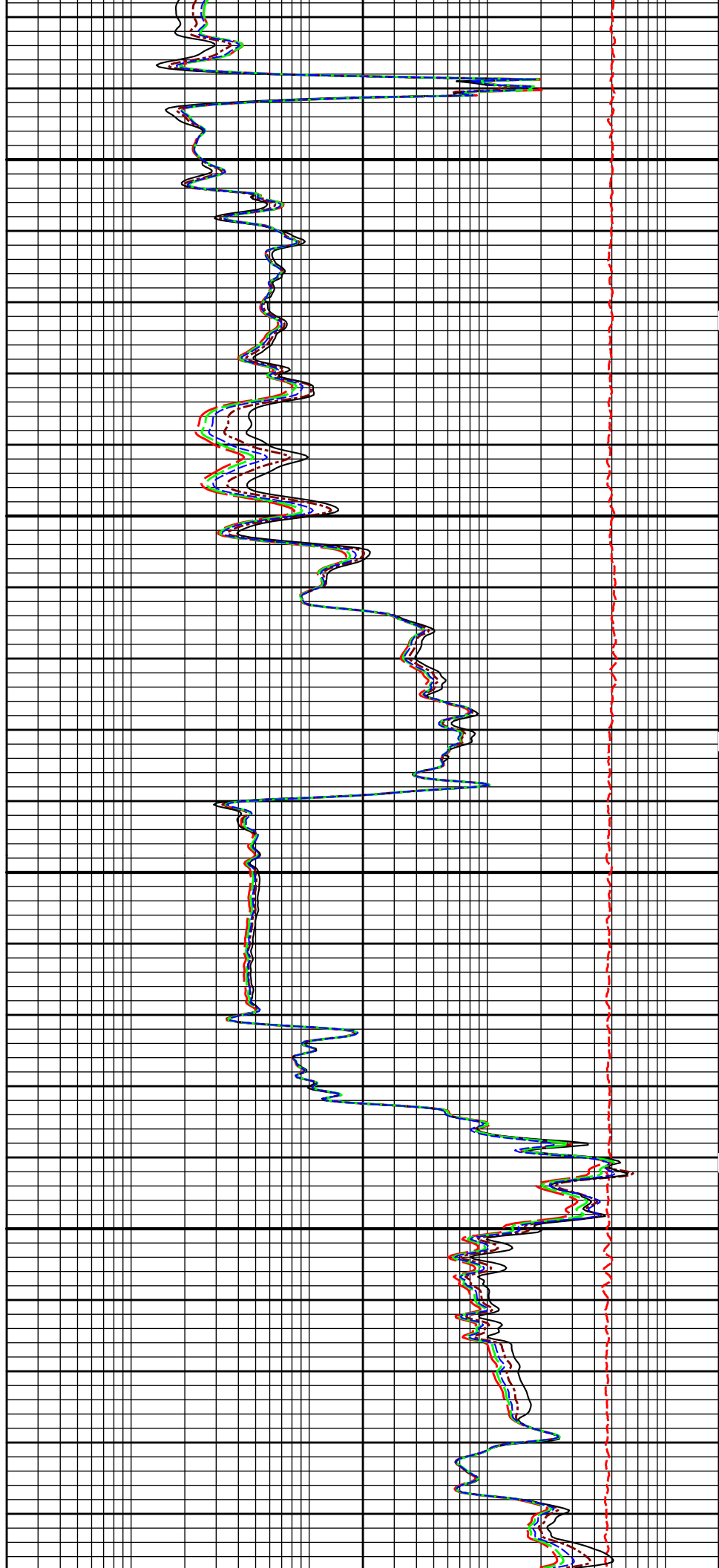
0 Gamma API api SHALE	MD 1 : 240 ft	10K Tension pounds 0	
		0.2	2000
		10in Resistivity 2ft Res	
		ohmm	
		0.2	2000
		20in Resistivity 2ft Res	
		ohmm	
		0.2	2000
		30in Resistivity 2ft Res	
		ohm-metre	

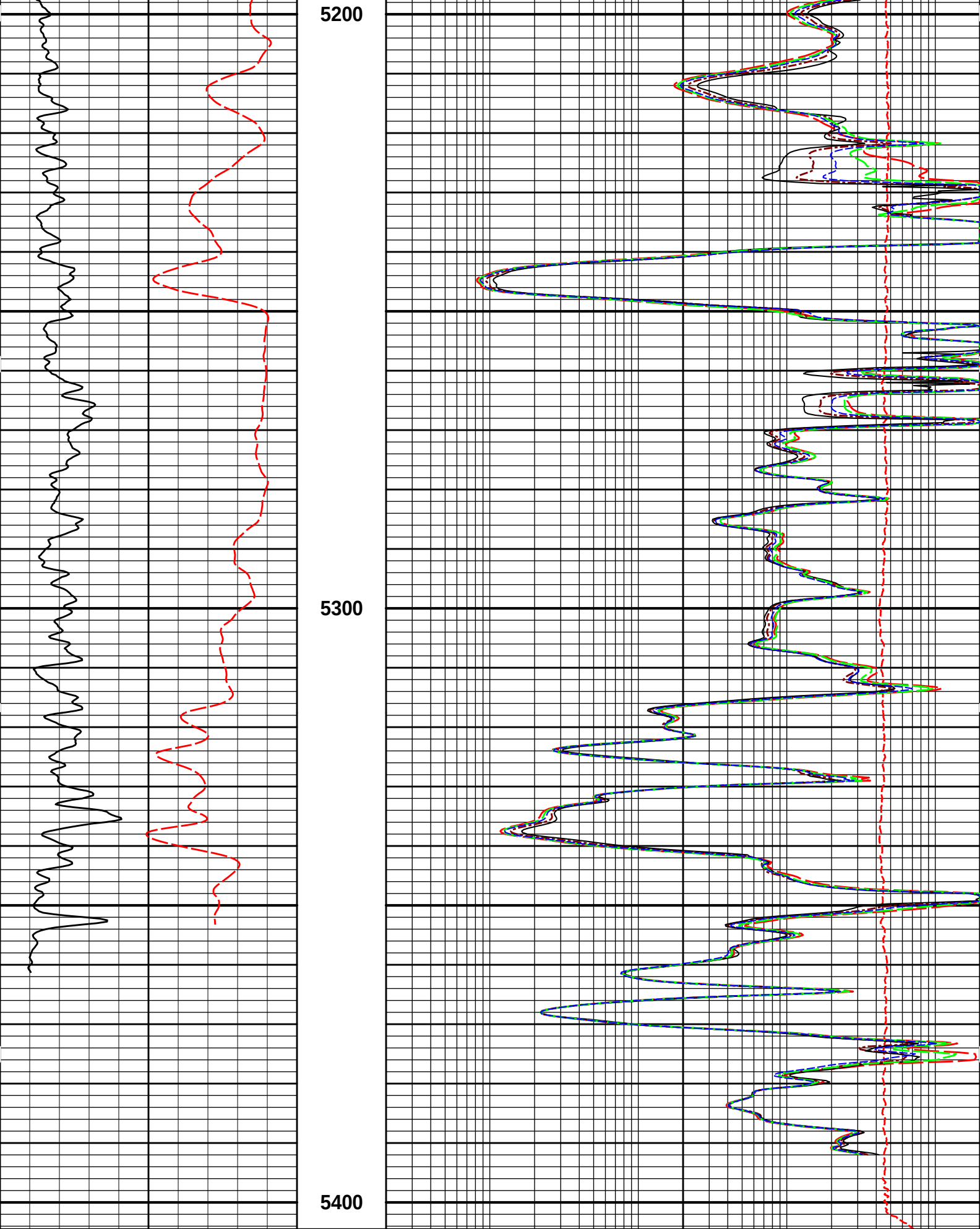




5000

5100





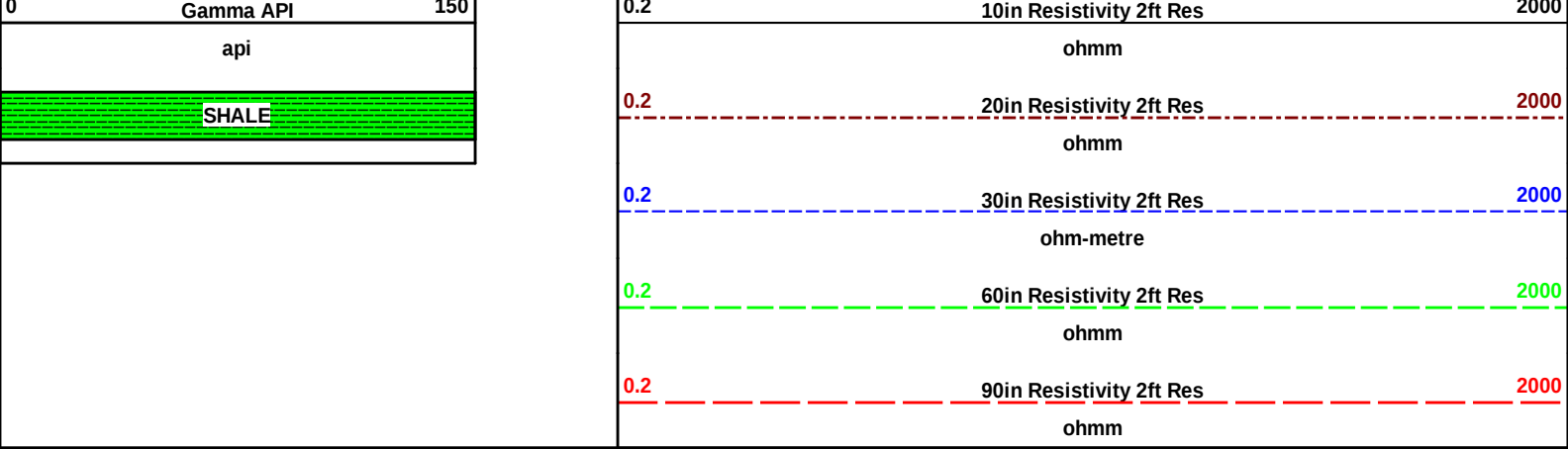
SP
-120[+

MD
1 : 240
ft

10K

Tension
pounds

0



HALLIBURTON

Plot Time: 13-Mar-14 10:49:10

Plot Range: 4898 ft to 5404.5 ft

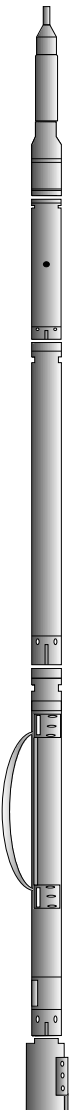
Data: BARKER_2-23\Well Based\DAQ-0001-002\

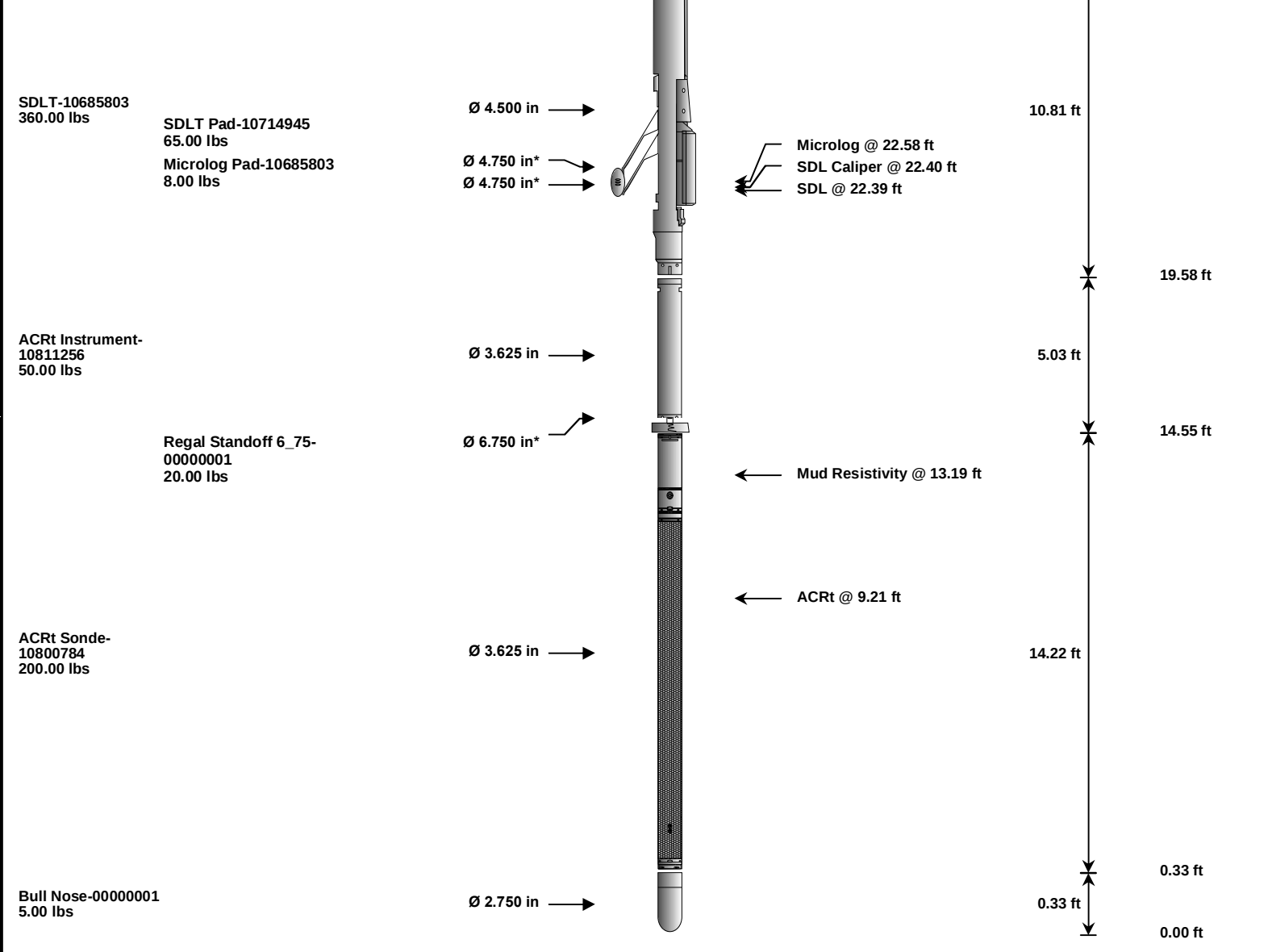
Plot File: \\-LOCAL-\BARKER_2-23\0001 SP-GTET-DSN-SDL-ACRT-BNIACRT\ACRT_5_repeat_lib

REPEAT SECTION

HALLIBURTON

TOOL STRING DIAGRAM REPORT

Description	Overbody Description	O.D.	Diagram	Sensors @ Delays	Length	Accumulated Length
CH_HOS-954 37.50 lbs		Ø 2.750 in →		← Temperature @ 55.29 ft	3.03 ft	56.32 ft
XOHD-00000001 20.00 lbs		Ø 2.750 in → Ø 3.625 in →			0.95 ft	53.29 ft
						52.34 ft
SP Sub-12345678 60.00 lbs		Ø 3.625 in →		← SP @ 50.56 ft	3.74 ft	48.60 ft
						48.60 ft
GTET-10748374 165.00 lbs		Ø 3.625 in →		← GammaRay @ 42.54 ft	8.52 ft	40.08 ft
						40.08 ft
DSN Decentralizer-10755066 6.60 lbs		Ø 5.000 in* →				
DSNT-10755066 174.00 lbs		Ø 3.625 in →			9.69 ft	
				← DSN Far @ 33.15 ft ← DSN Near @ 32.40 ft		30.40 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	954	37.50	3.03	53.29	300.00
XOHD	Hostile to Dits Cross Over	00000001	20.00	0.95	52.34	300.00
SP	SP Sub	12345678	60.00	3.74	48.60	300.00
GTET	Gamma Telemetry Tool	10748374	165.00	8.52	40.08	60.00
DSNT	Dual Spaced Neutron	10755066	174.00	9.69	30.40	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13	* 33.73	300.00
SDLT	Spectral Density Tool	10685803	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad	10714945	65.00	2.55	* 21.79	60.00
MICP	Microlog Pad	10685803	8.00	1.00	* 22.08	60.00
ACRt	Array Compensated True Resistivity Instrument Section	10811256	50.00	5.03	14.55	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10800784	200.00	14.22	0.33	300.00
RSOF	Regal Standoff 6.75in	00000001	20.00	0.52	* 14.52	300.00
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00
Total			1,171.10	56.32		
* Not included in Total Length and Length Accumulation.						
Data: BARKER_2-23\0001 SP-GTET-DSN-SDL-ACRT-BN\IDLE					Date: 13-Mar-14 08:11:41	

Tool Name: GTET - 10748374			Reference Calibration Date: 03-Feb-14 18:18:39		
Engineer: THOMAS HYDE		Calibration Date: 05-Mar-14 16:34:57			
Software Version: WL INSITE R3.8.4 (Build 5)		Calibration Version: 1			
Calibrator Source S/N: TB-185					
Calibrator API Reference:228.00 api					
Equivalent Calibrator API Reference:232.0 api					
		Measurement	Measured	Calibrated	Units
Background			36.2	36.0	api
Background + Calibrator			269.0	268.0	api
Calibrator			232.8	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION					
Tool Name: GTET - 10748374			Reference Calibration Date: 05-Mar-14 16:34:57		
Engineer: THOMAS HYDE			Calibration Date: 13-Mar-14 08:11:26		
Software Version: WL INSITE R3.8.4 (Build 5)			Calibration Version: 1		
Calibrator Source S/N: TB-185					
Calibrator API Reference:228.00 api					
Equivalent Calibrator API Reference:232.0 api					
		Field Verification	Shop	Field	Units
Background			36.0	40.5	api
Background + Calibrator			268.0	268.7	api
Calibrator			232.0	228.2	api
		Shop	Field	Difference	Tolerance
		232.0	228.2	3.8	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION					
Tool Name: ACRt Sonde - 10800784			Reference Calibration Date: 31-Dec-13 12:12:40		
Engineer: THOMAS HYDE			Calibration Date: 19-Feb-14 09:53:33		
Software Version: WL INSITE R3.8.4 (Build 5)			Calibration Version: 1		
Host Tool Name: ACRt Instrument - 10811256					

TYPICAL GAIN RANGE									
Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.05	1.05	0.95	1.05	1.05	0.95	1.03	1.05
A2 (50")	0.95	1.03	1.05	0.95	1.03	1.05	0.95	1.02	1.05
A3 (29")	0.95	1.03	1.05	0.95	1.03	1.05	0.95	1.01	1.05
A4 (17")	0.95	1.02	1.05	0.95	1.01	1.05	0.95	1.01	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.02	1.05	0.95	1.01	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.05	1.05	0.95	1.04	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	-0.10	2	-6	-4.00	-2	-8	-5.44	-2
A2 (50")	-7	-1.73	0	-7	-3.79	0	-7	-4.72	0
A3 (29")	-27	-16.09	-9	-9	-4.67	-3	-7	-3.64	-1
A4 (17")	-180	-98.77	-60	-45	-32.92	-15	-39	-26.77	-13
A5 (10")	N/A	N/A	N/A	-150	-98.82	-50	-80	-49.07	-10
A6 (6")	N/A	N/A	N/A	175	313.31	525	90	167.23	270

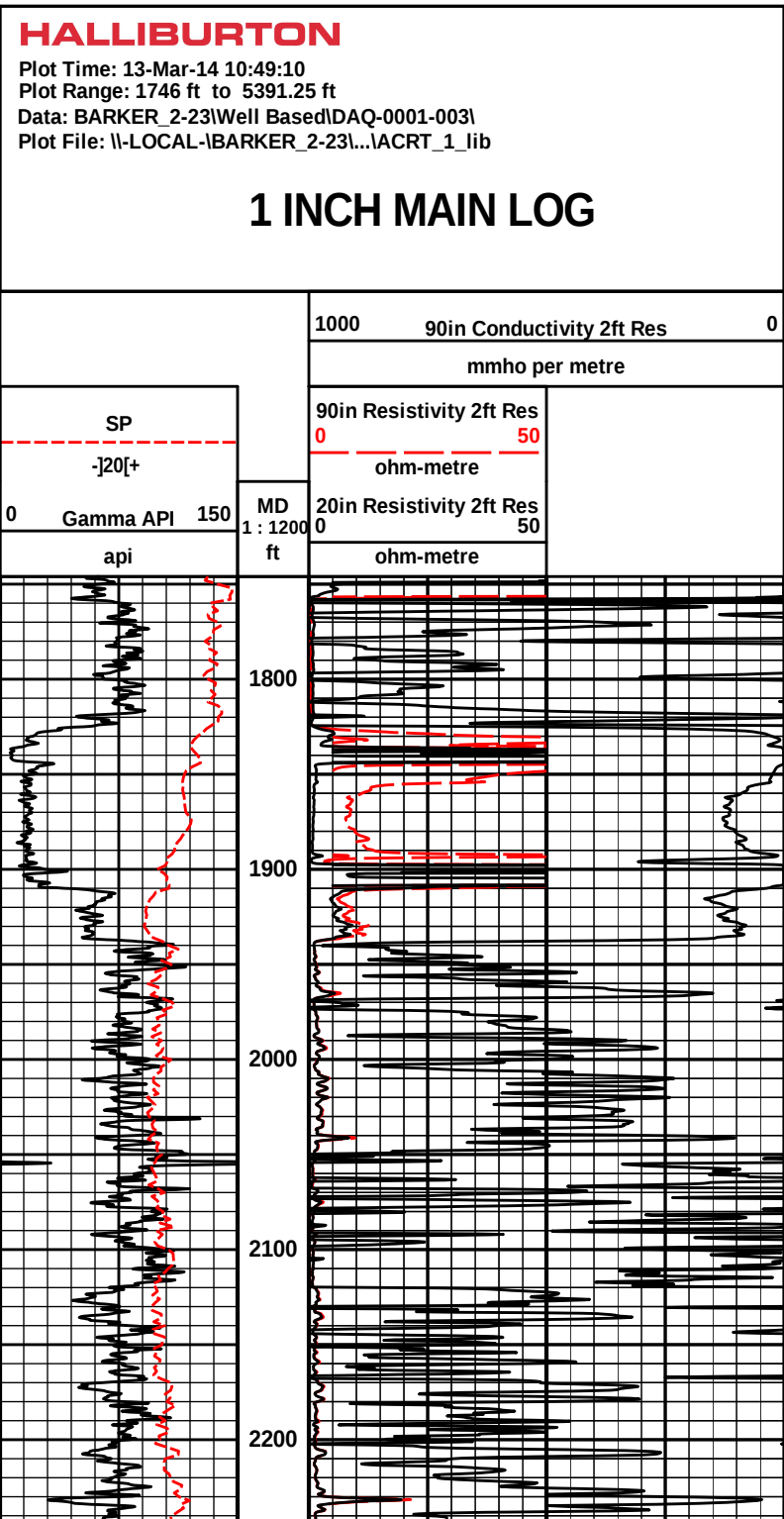
TRANSMITTER CURRENT GAIN				R-MUD VERIFICATION			
Signal	Lower	R	Upper	Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
12K	0.6	0.84	1.3	Mud Cell	0.95	1.00	1.05
36K	1.0	1.17	2.0				
72K	1.0	1.50	2.0				
PASS/FAIL SUMMARY GAIN RANGE CHK PASS SONDE OFFSET RANGE CHK PASS Tx CURRENT GAIN PASS Rmud VERIFICATION PASS TOOL OK TO LOG							
CALIBRATION SUMMARY							
Sensor	Shop	Field	Post	Difference	Tolerance	Units	
GTET-10748374							
Gamma Ray Calibrator	232.0	228.2	-----	3.8	+/- 9.00	api	
ACRt Sonde-10800784							
Mud Cell	1.00	-----	-----	0.00	-----	ohm-m	
Data: BARKER_2-2310001 SP-GTET-DSN-SDL-ACRT-BNIDLE						Date: 13-Mar-14 08:38:43	
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	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	40.0	degF		
	SHARED	TD	Total Well Depth	5400.00	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			
	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			

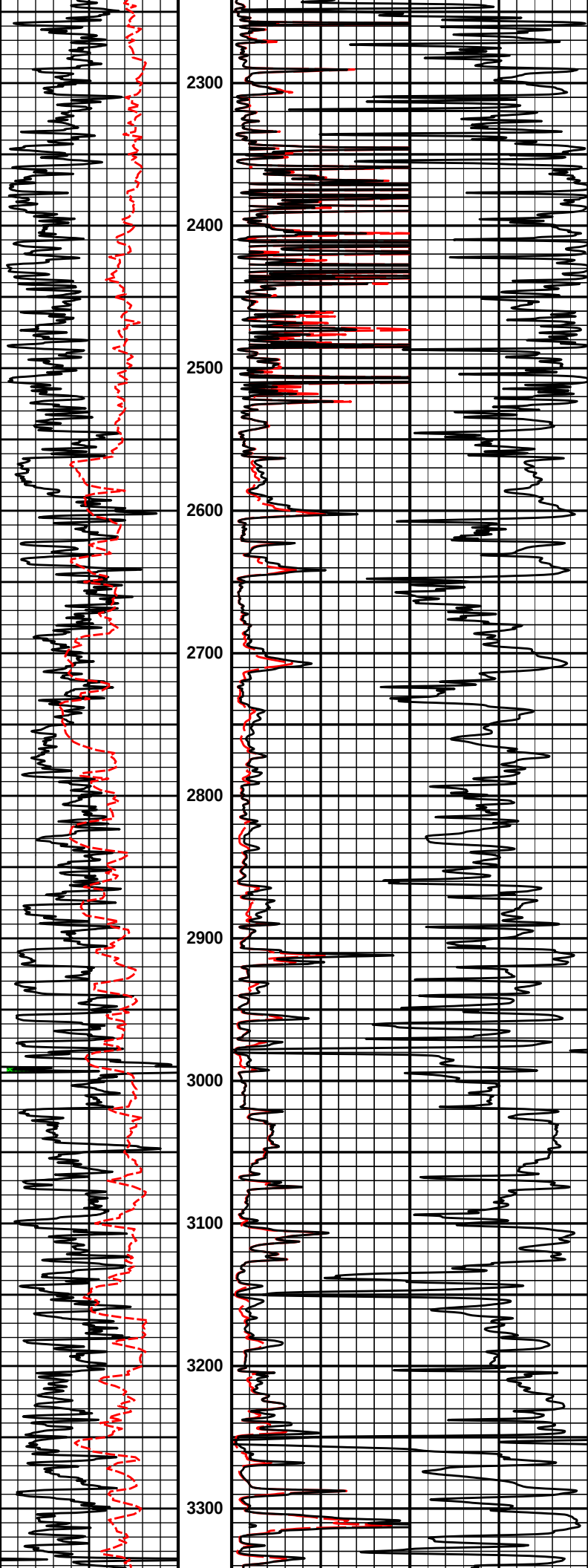
Mnemonic		Input Description	Delay (ft)	Filter Type	Filter Length (ft)
Depth Panel					
TENS	Tension		0.00	NO	
CH_HOS					
DHTN	DownholeTension		0.00	BLK	0.000

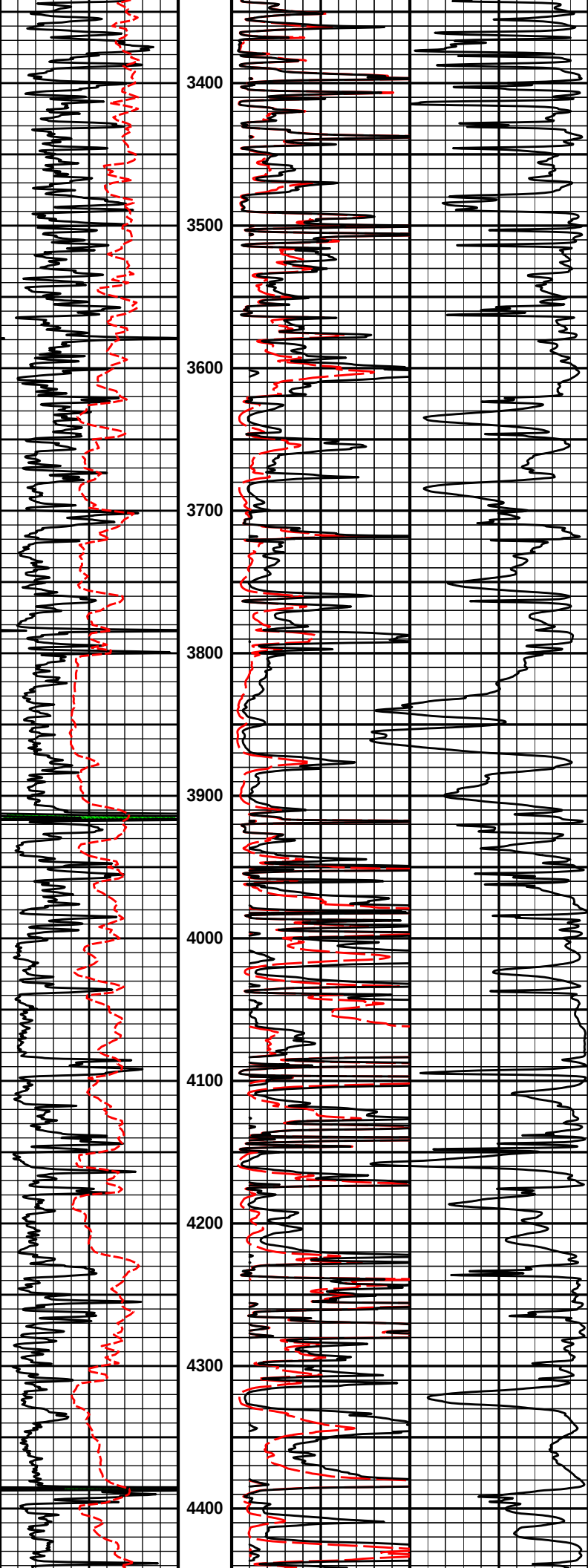
SP Sub				
PLTC	Plot Control Mask	50.56	NO	
SP	Spontaneous Potential	50.56	BLK	1.250
SPR	Raw Spontaneous Potential	50.56	NO	
SPO	Spontaneous Potential Offset	50.56	NO	
GTET				
TPUL	Tension Pull	42.54	NO	
GR	Natural Gamma Ray API	42.54	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	42.54	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	42.54	W	1.416 , 0.750
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	
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

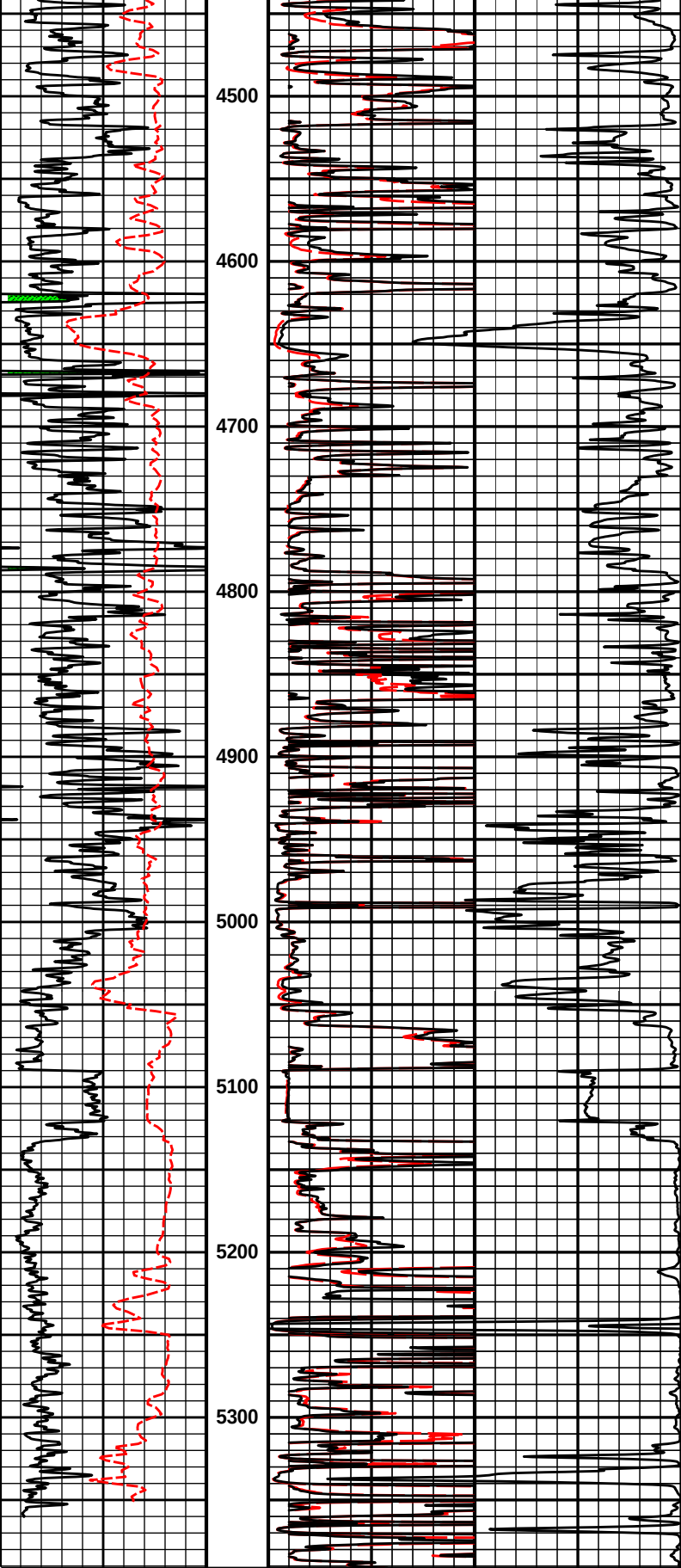
F3X1	ACRT 72KHz - 80in X value	8.98	BLK	0.000
F3R2	ACRT 72KHz - 50in R value	6.48	BLK	0.000
F3X2	ACRT 72KHz - 50in X value	6.48	BLK	0.000
F3R3	ACRT 72KHz - 29in R value	4.98	BLK	0.000
F3X3	ACRT 72KHz - 29in X value	4.98	BLK	0.000
F3R4	ACRT 72KHz - 17in R value	3.98	BLK	0.000
F3X4	ACRT 72KHz - 17in X 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 Current Raw 12K X Receiver	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	
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	
Microlog Pad				
TPUL	Tension Pull	22.58	NO	
MINV	Microlog Lateral	22.58	BLK	0.750

COMPANY	BEREXCO LLC.		
WELL	BARKER 2-23		
FIELD	WILDCAT		
COUNTY	FINNEY	STATE	KANSAS
HALLIBURTON		ARRAY COMPENSATED TRUE RESISTIVITY LOG	









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

HALLIBURTON

Plot Time: 13-Mar-14 10:49:12
Plot Range: 1746 ft to 5391.25 ft
Data: BARKER_2-23\Well Based\DAQ-0001-003\
Plot File: \\-LOCAL-\\BARKER_2-23\\...\\ACRT_1.lib

1 INCH MAIN LOG