

HALLIBURTON

ARRAY COMPENSATED TRUE RESISTIVITY LOG

COMPANY	SANDRIDGE ENERGY		
WELL	LAMBERT 3014 1-34		
FIELD/BLOCK	SKINNER		
COUNTY	BARBER		
STATE	KANSAS		
COMPANY	SANDRIDGE ENERGY	WELL	LAMBERT 3014 1-34
FIELD/BLOCK	SKINNER	COUNTY	BARBER
STATE	KANSAS		
API No.	15007241190000	Location	S2-S2-S2-SE 165' FSL 1320' FEL
Sect.	34	Twp.	30S
Rge.	14W	Elev.	1735.0 ft
Other Services:	MICRO DSNT/SDLT CSNG MRIL		

Permanent Datum	GL	Elev.	K.B. 1751.2 ft
Log measured from	KB	D.F.	1749.2 ft
Drilling measured from	KB	G.L.	1735.0 ft

Date	19-Jan-14	Run No.	ONE
Depth - Driller	4638.00 ft	Bottom - Logged Interval	4618.0 ft
Depth - Logger	4628.0 ft	Top - Logged Interval	1033.0 ft
Casing - Driller	9.625 in	Casing - Logger	1033.0 ft
Bit Size	8.750 in	Type Fluid in Hole	WATER BASED
Density	9.2 ppg	Viscosity	48.00 s/qt
PH	11.00 pH	Fluid Loss	4.4 cphm
Source of Sample	MUD PIT	Rm @ Meas. Temperature	0.420 ohmm @ 87.00 degF
Rmf @ Meas. Temperature	0.36 ohmm @ 87.00 degF	Rmc @ Meas. Temperature	0.480 ohmm @ 87.00 degF
Source Rmf	MEASURED	Rmc	MEASURED
Rm @ BHT	0.33 ohmm @ 112.0 degF	Time Since Circulation	6.0 hr
Time on Bottom	19-Jan-14 17:11	Max. Rec. Temperature	112.0 degF @ 4628.0 ft
Equipment	11230668	Location	LIBERAL
Recorded By	THOMAS HYDE	Witnessed By	S. MORRISON
T. BOARDMAN			

Fold here

Service Ticket No.: 901047413 API Serial No.: 15007241190000 PGM Version: WL INSITE R3.8.4 (Build 5)

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.
Rmf @ Meas. Temp.	@		@	ONE	ACRT	N/A	1.5" S.O.
Rmc @ Meas. Temp.	@		@		I10929776		
Source Rmf	Rmc				S10929775		
Rm @ BHT	@		@				
Rmf @ BHT	@		@				
Rmc @ BHT	@		@				

EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.		Run No.	
Serial No.	11039640	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	

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	4628	1033	REC	0	150									

DIRECTIONAL INFORMATION

Maximum Deviation @ KOP @

Remarks: CHLORIDES REPORTED AT 4200 MG/L

TODAY'S CREW K. KING D. MILLER

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



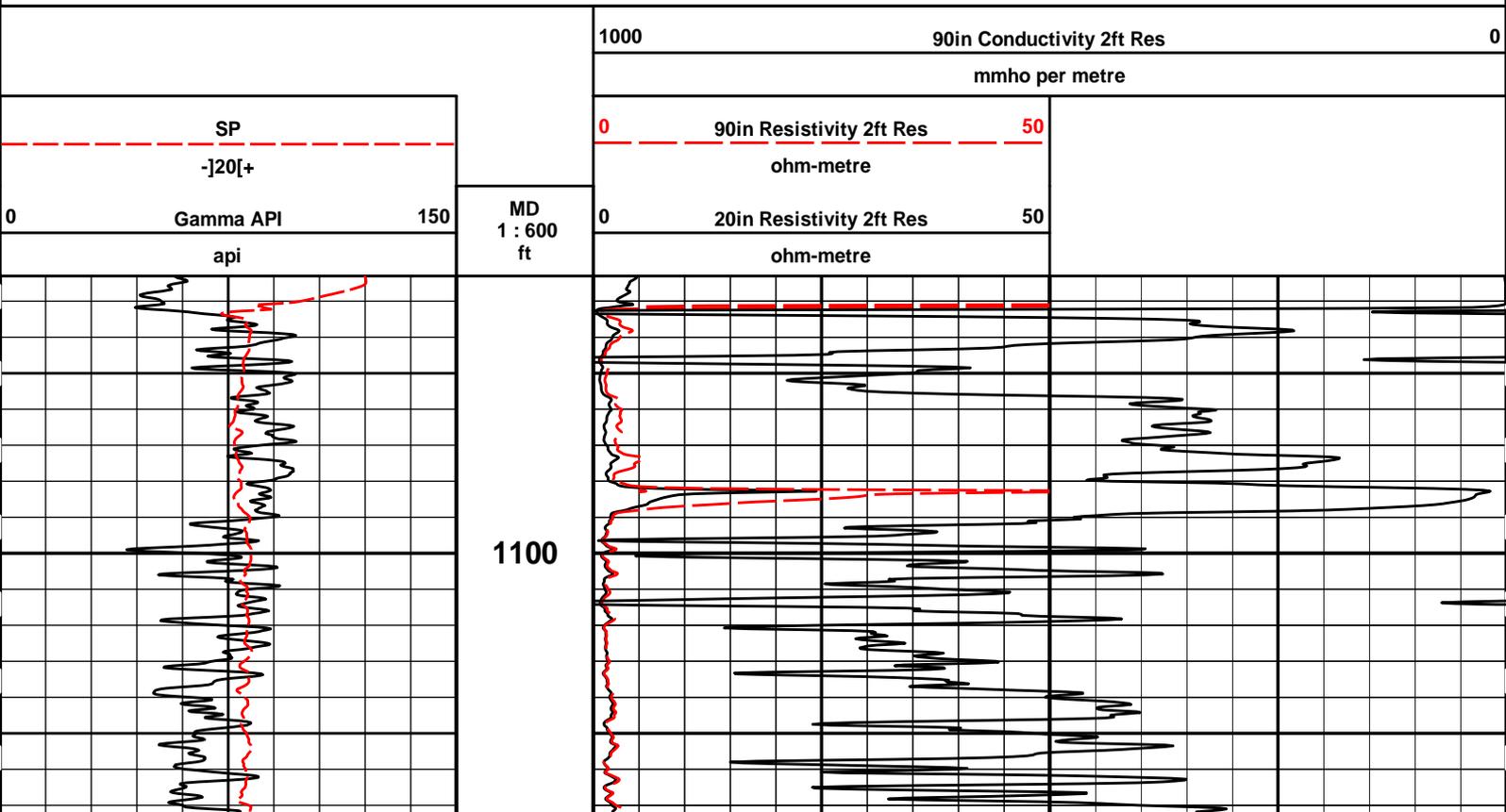
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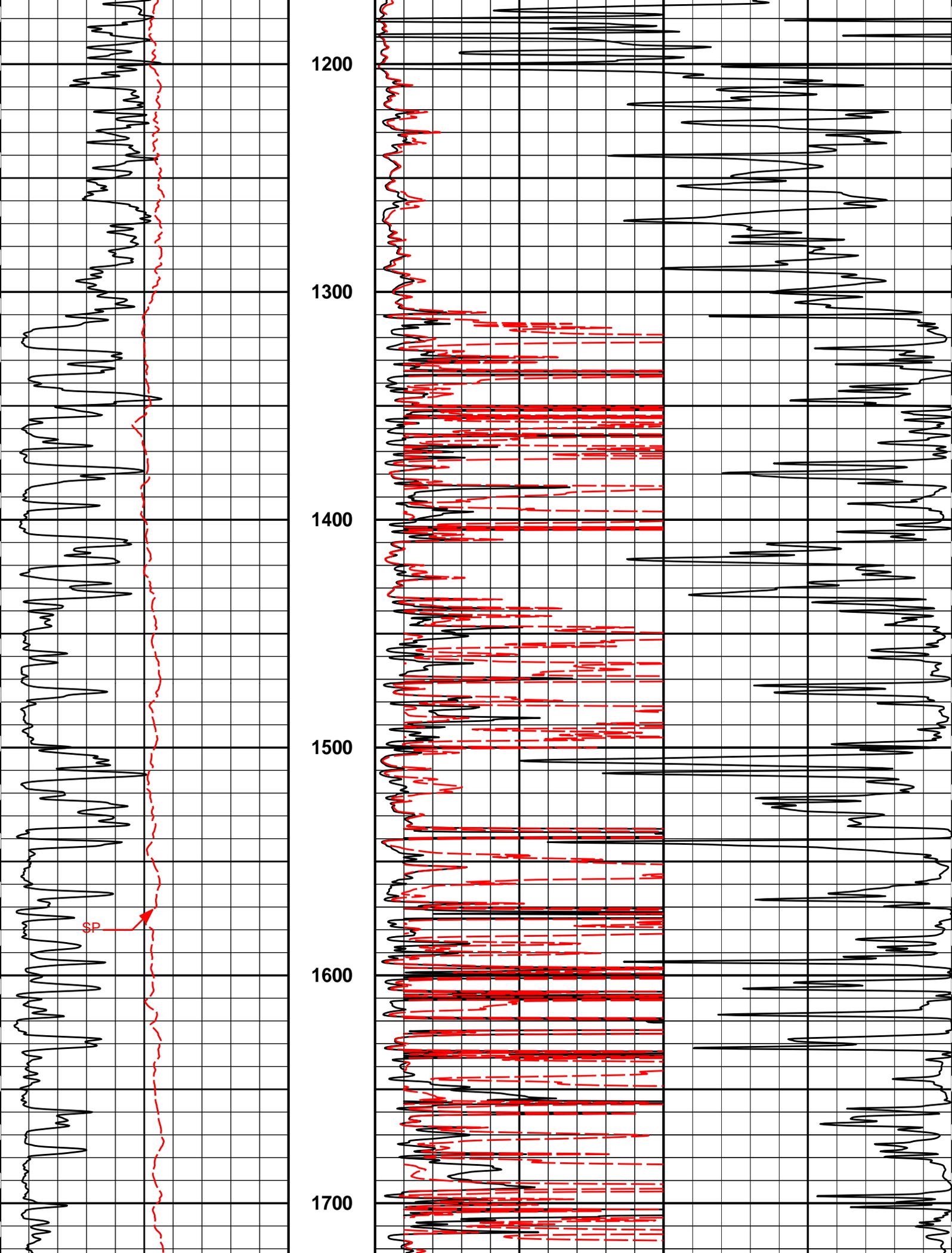
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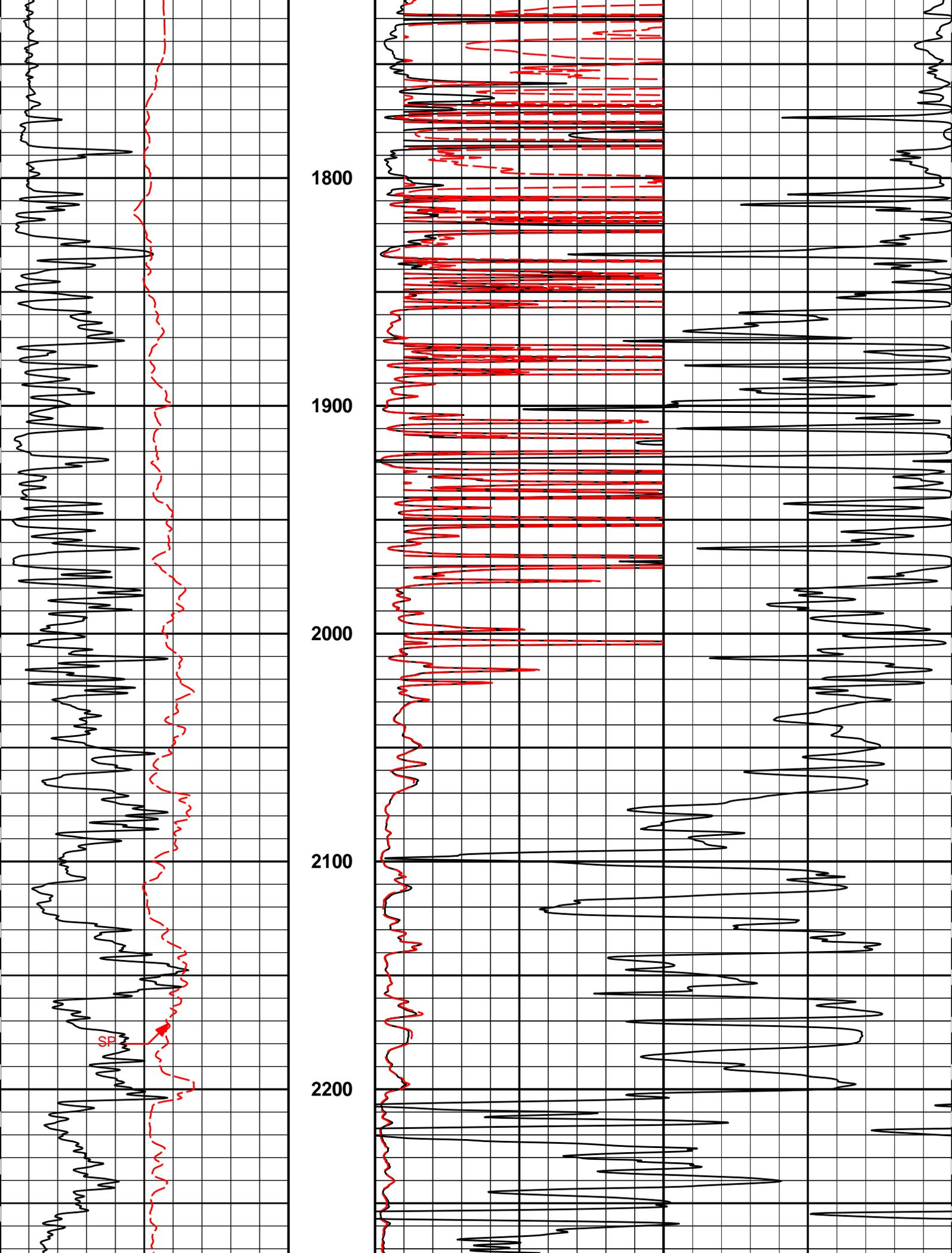
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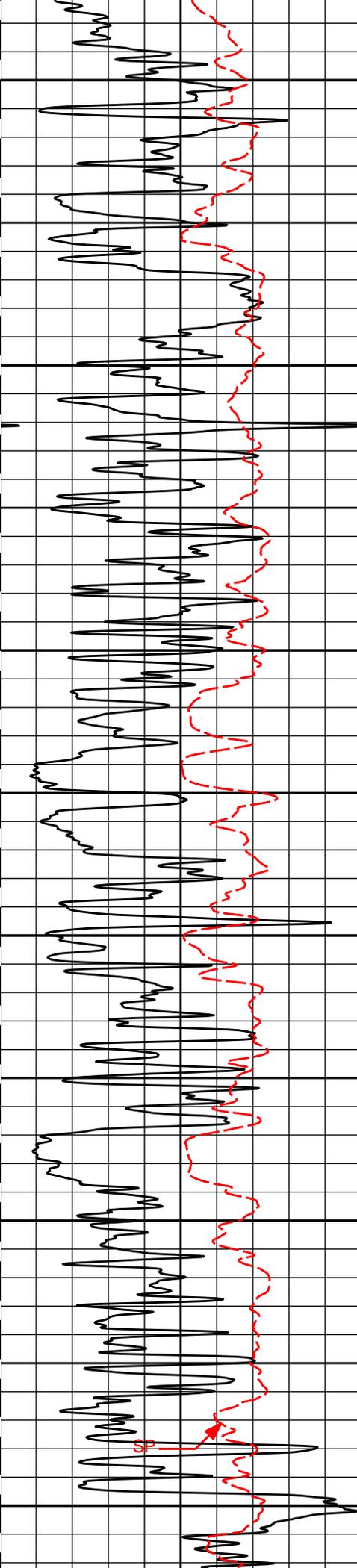
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2 INCH MAIN LOG









2300

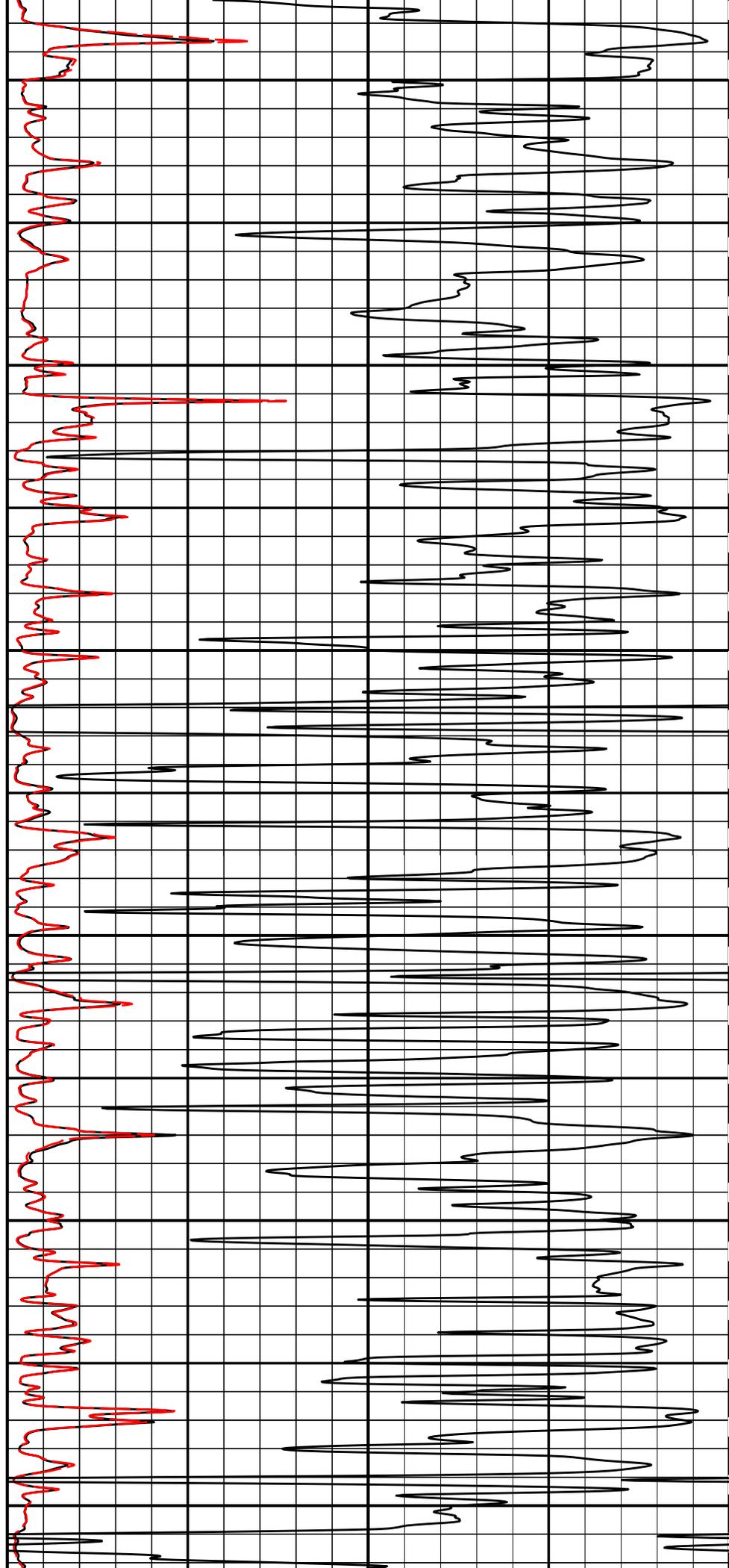
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2500

2600

2700

2800



2300

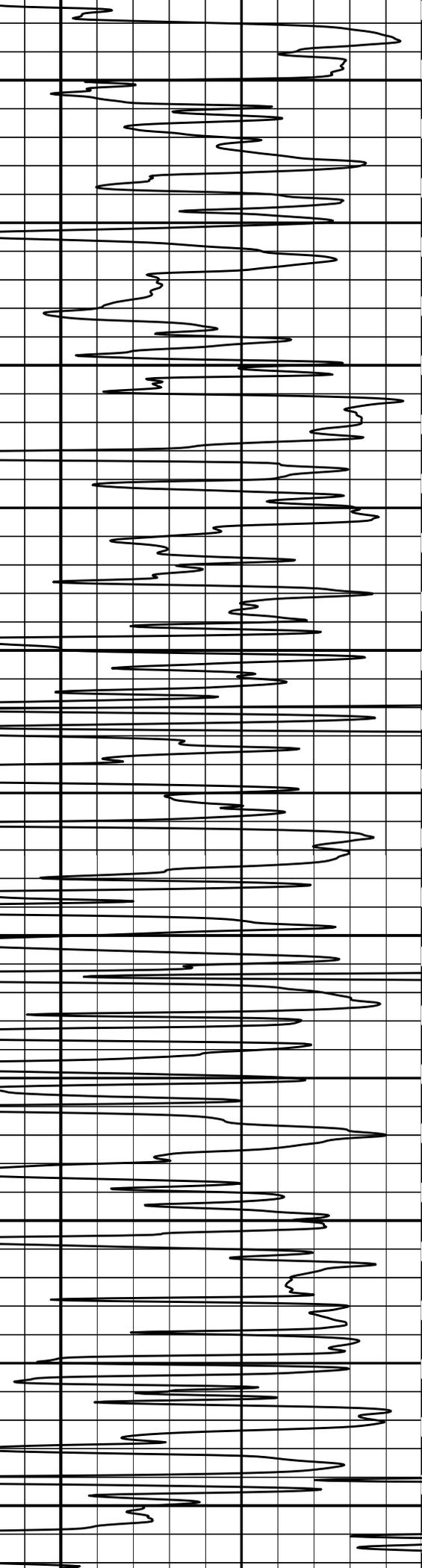
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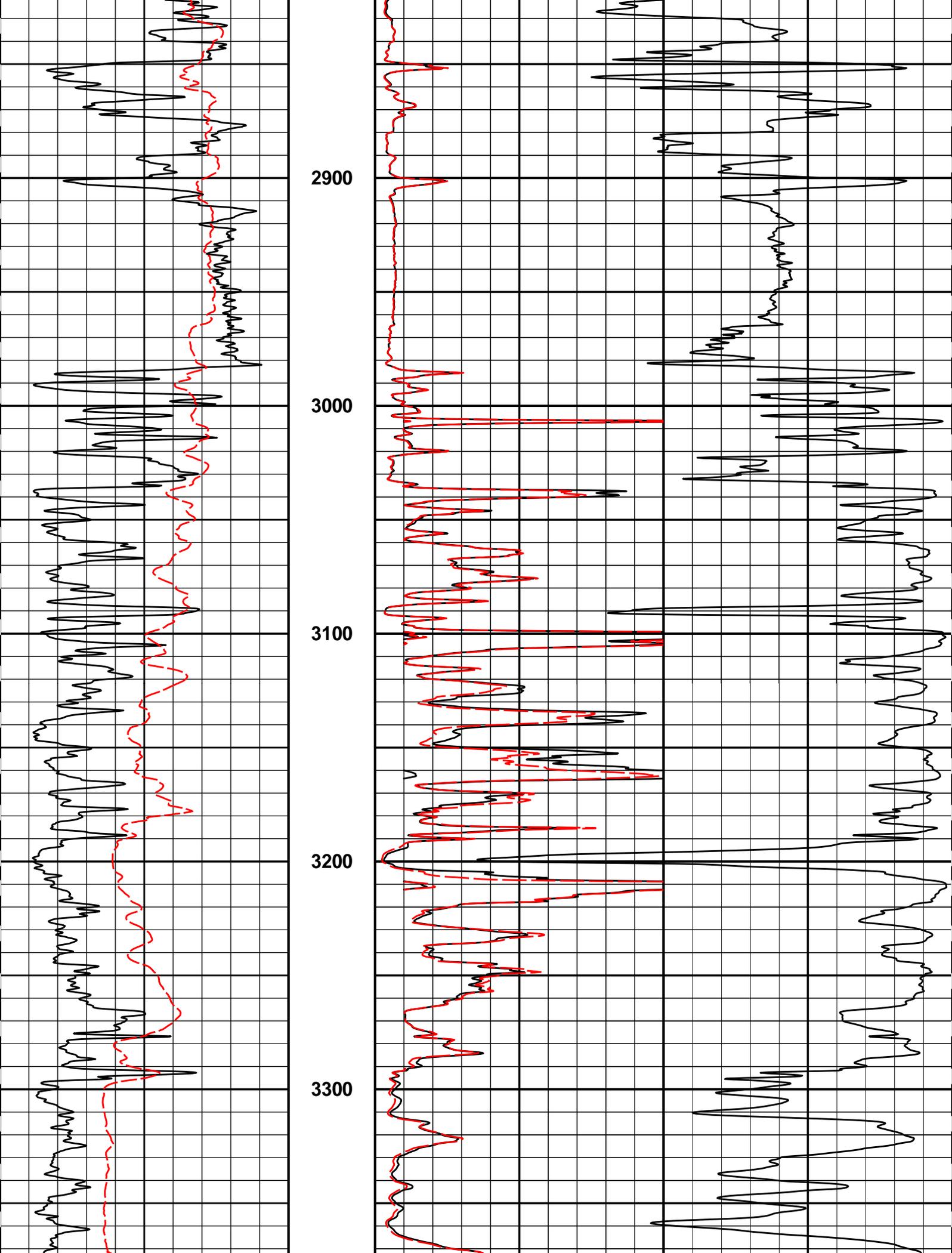
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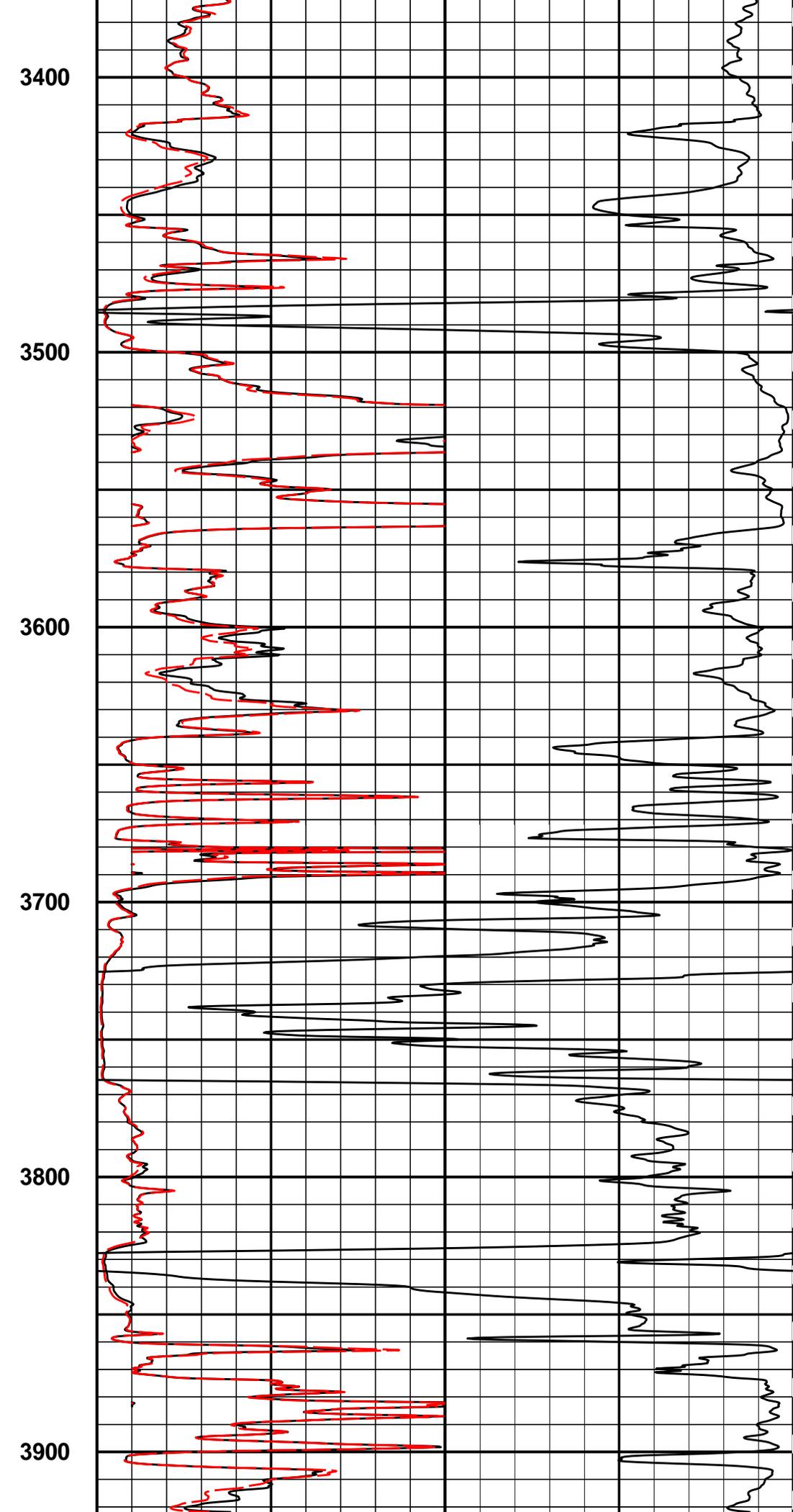
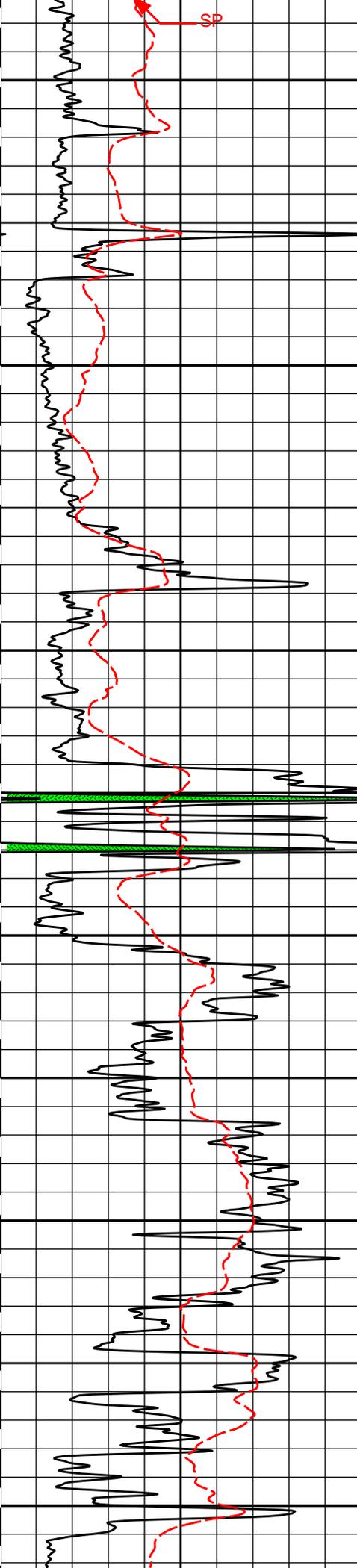
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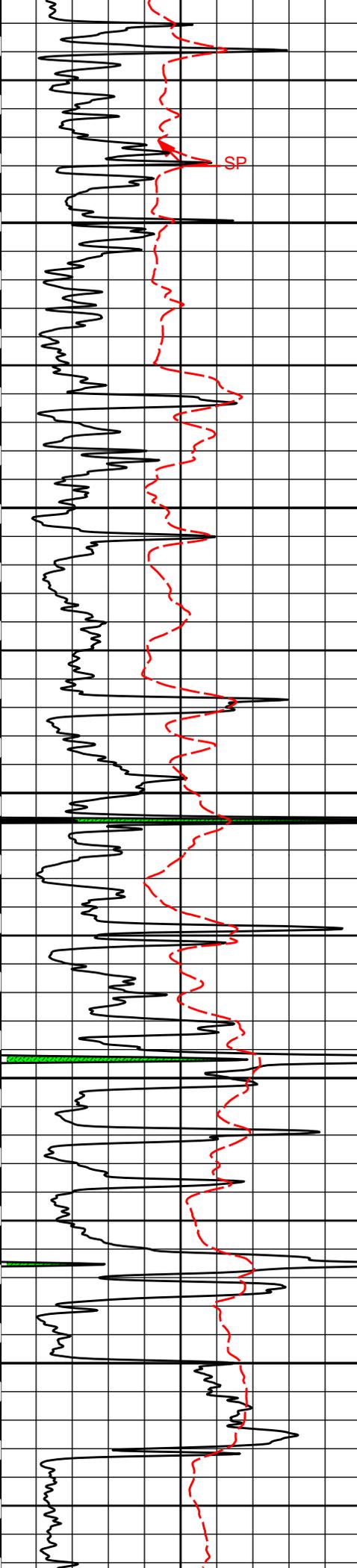
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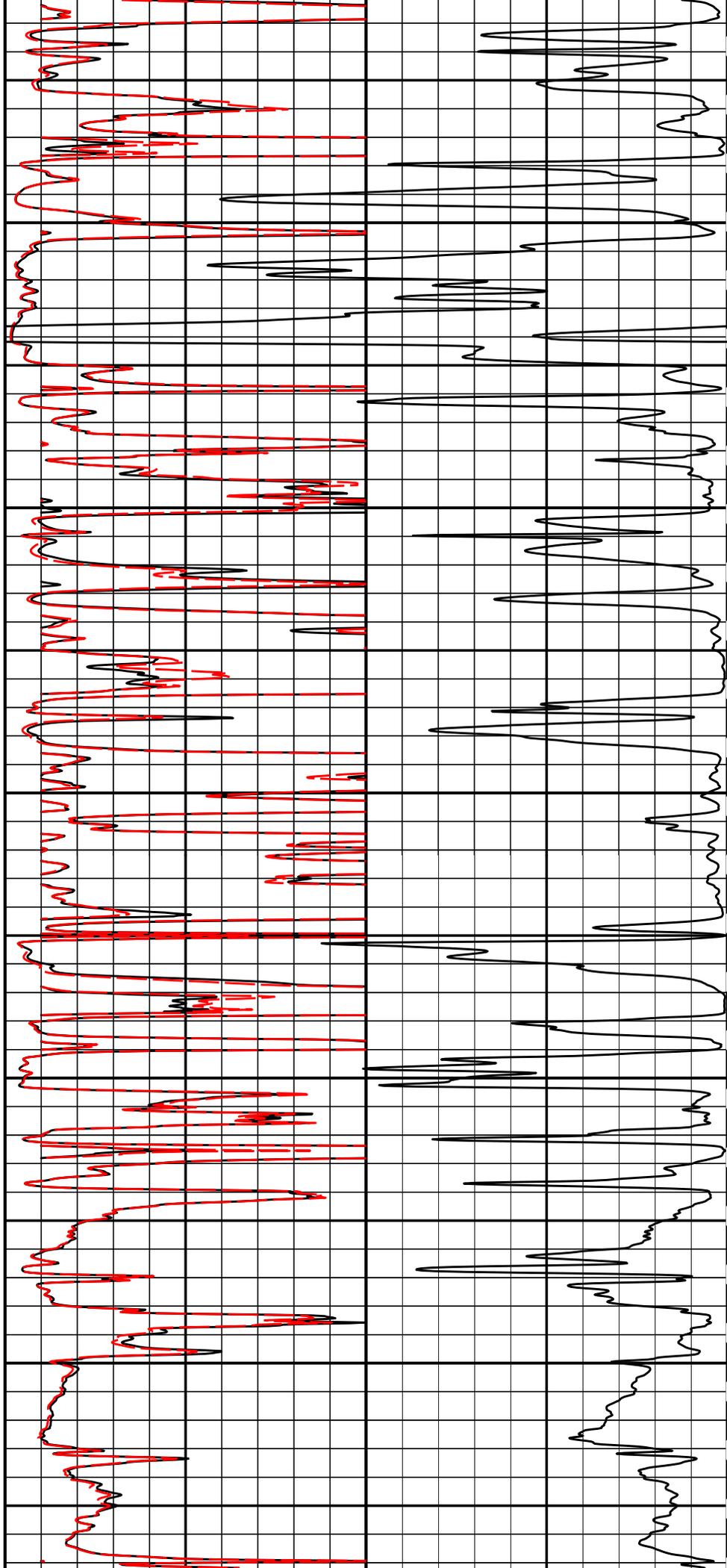
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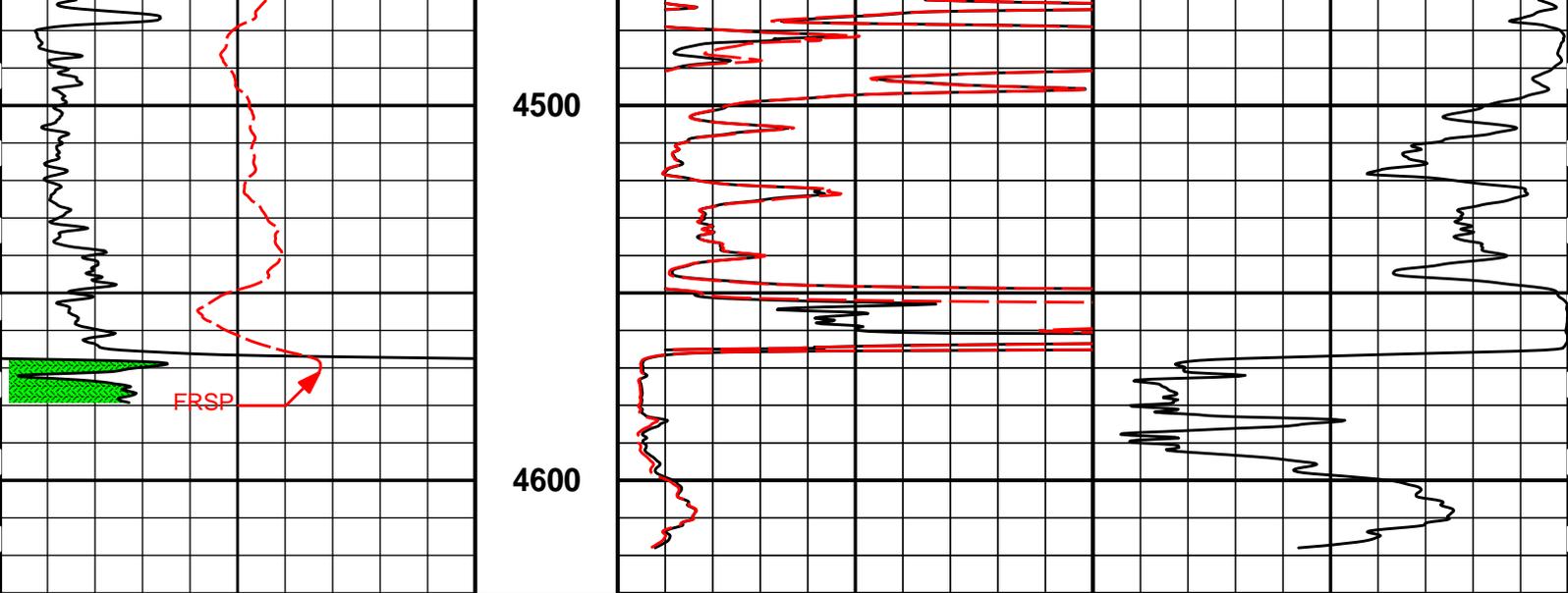
4100

4200

4300

4400





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

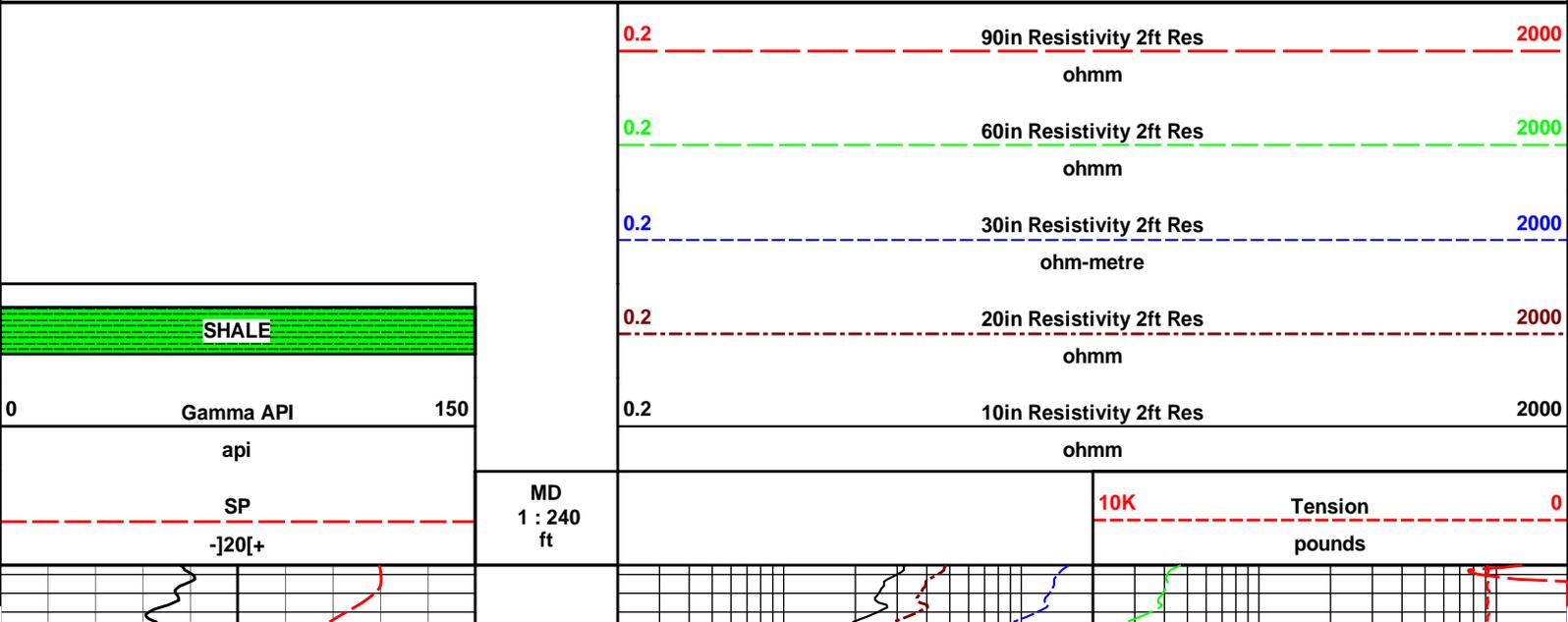
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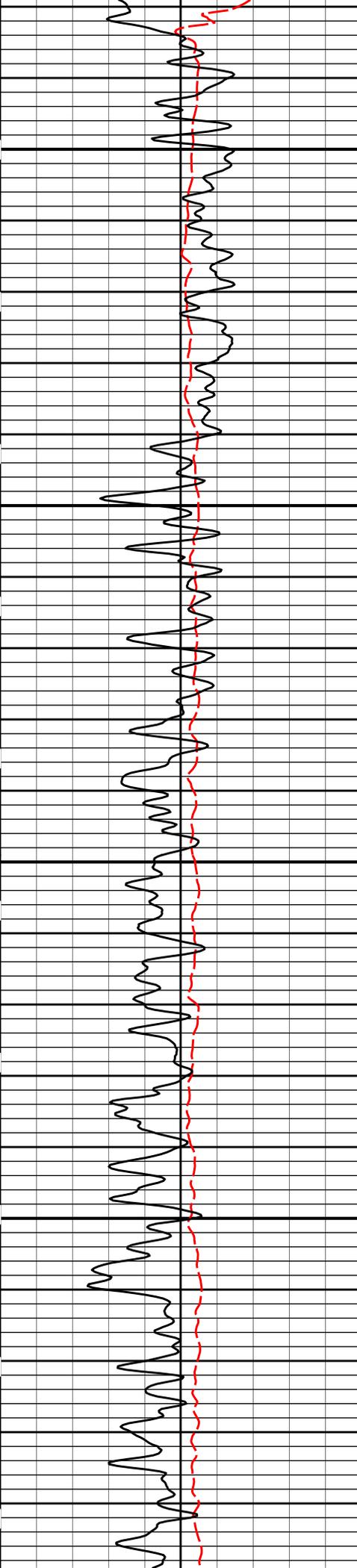
2 INCH MAIN LOG

HALLIBURTON

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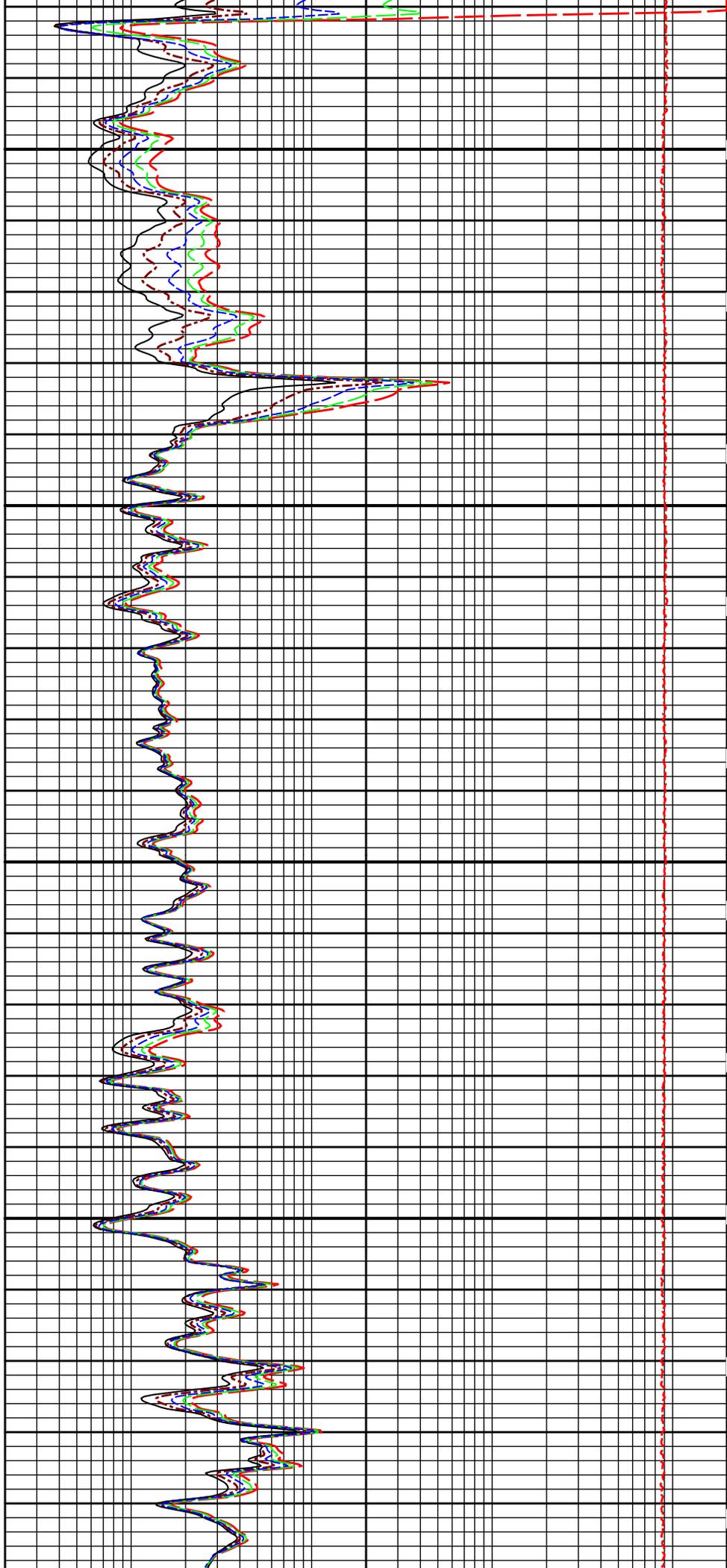
5 INCH MAIN LOG





1100

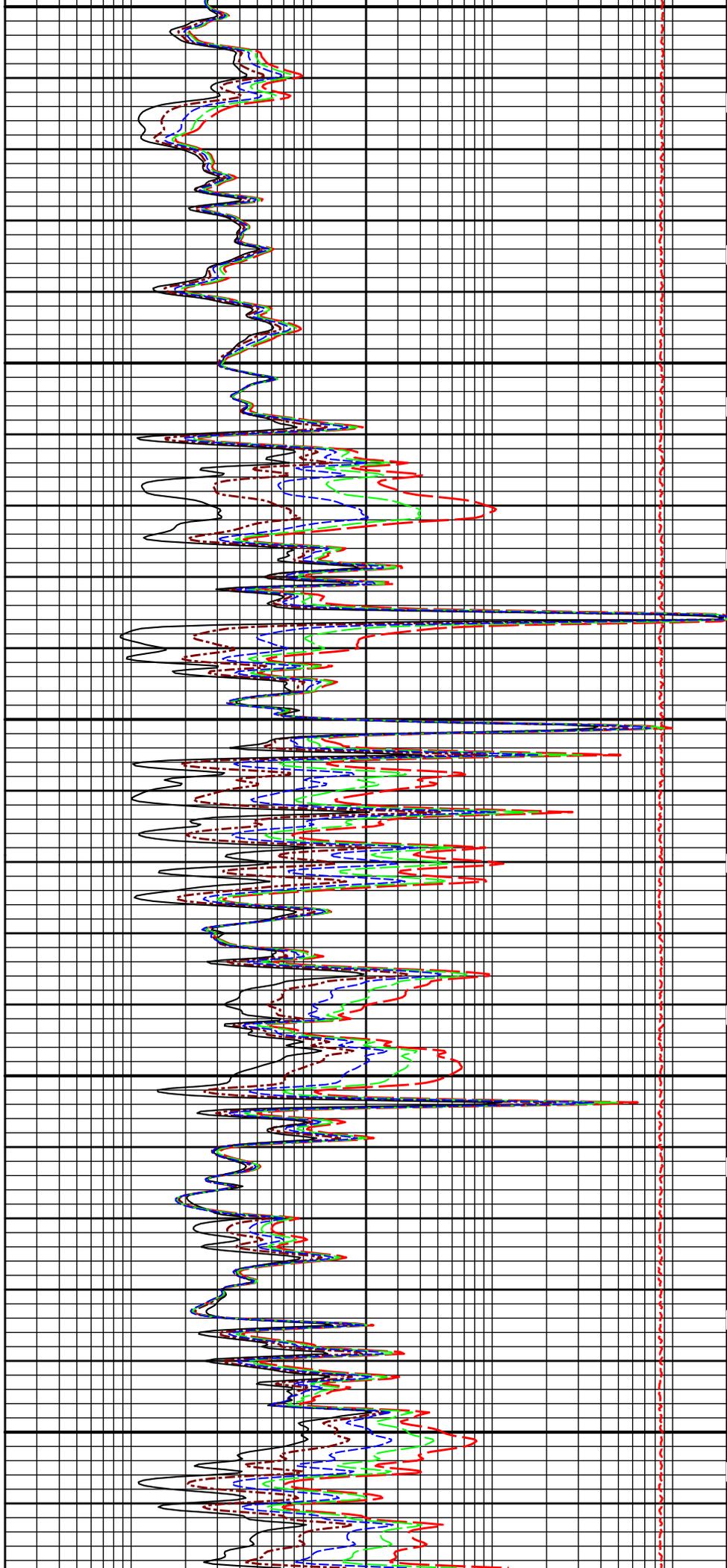
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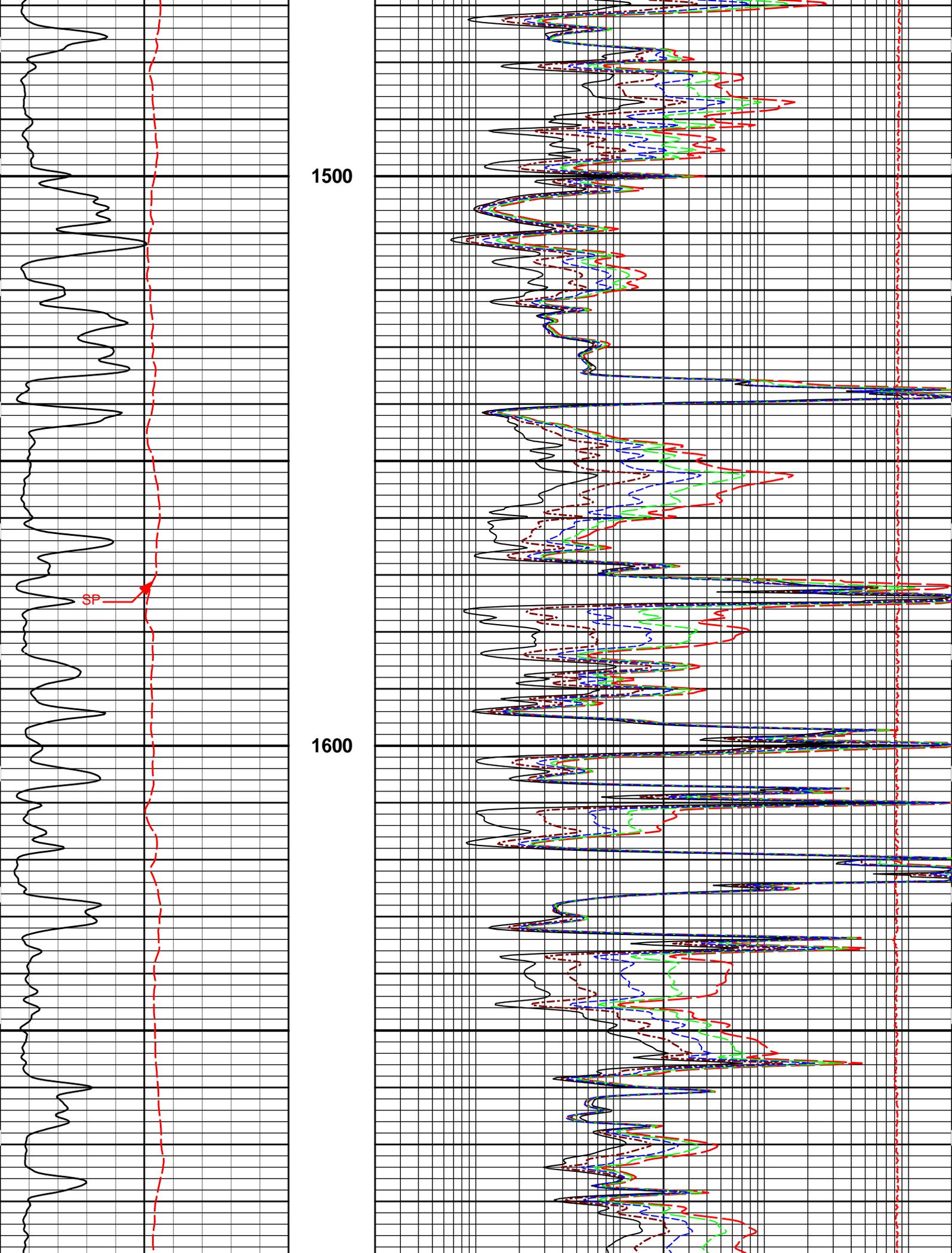


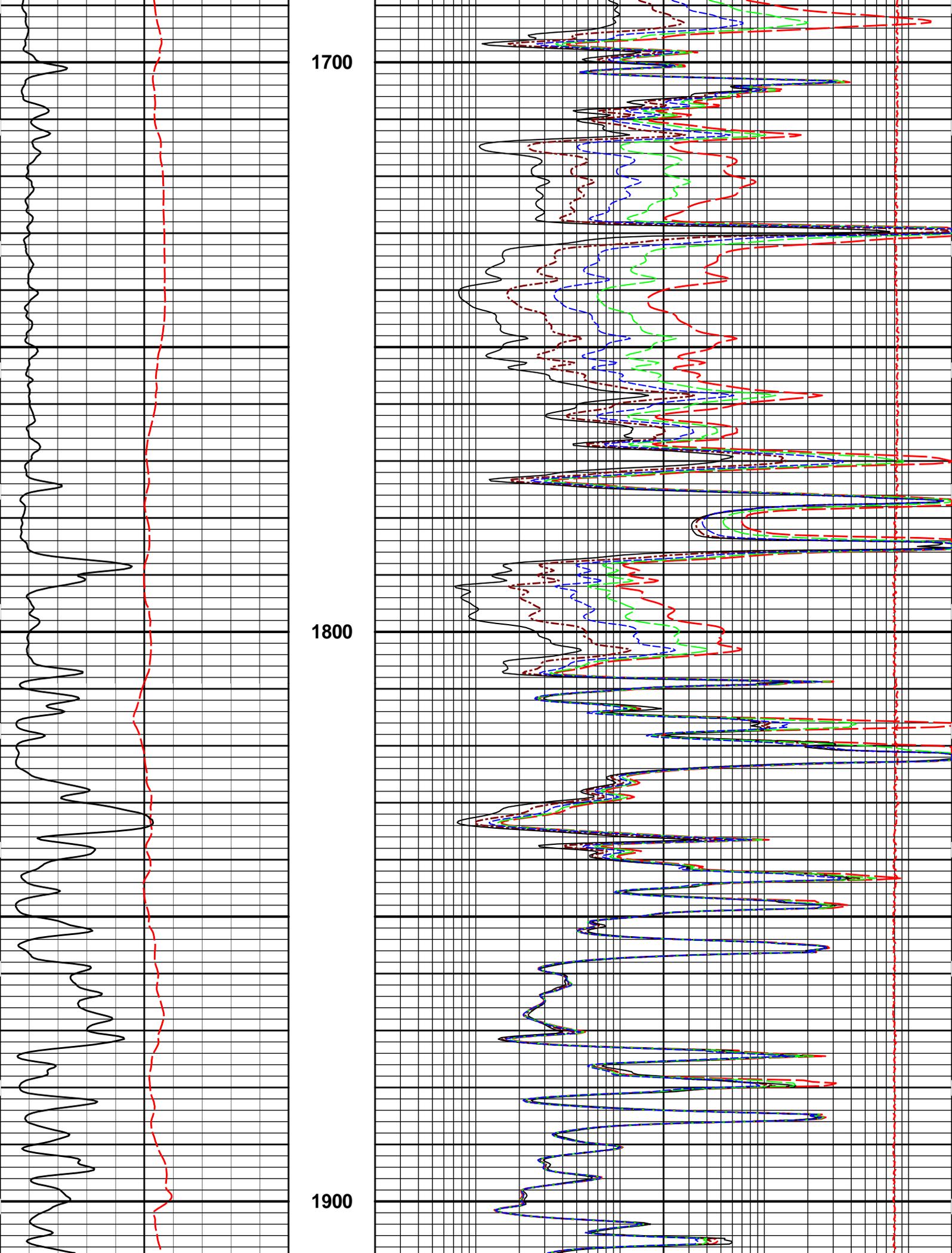


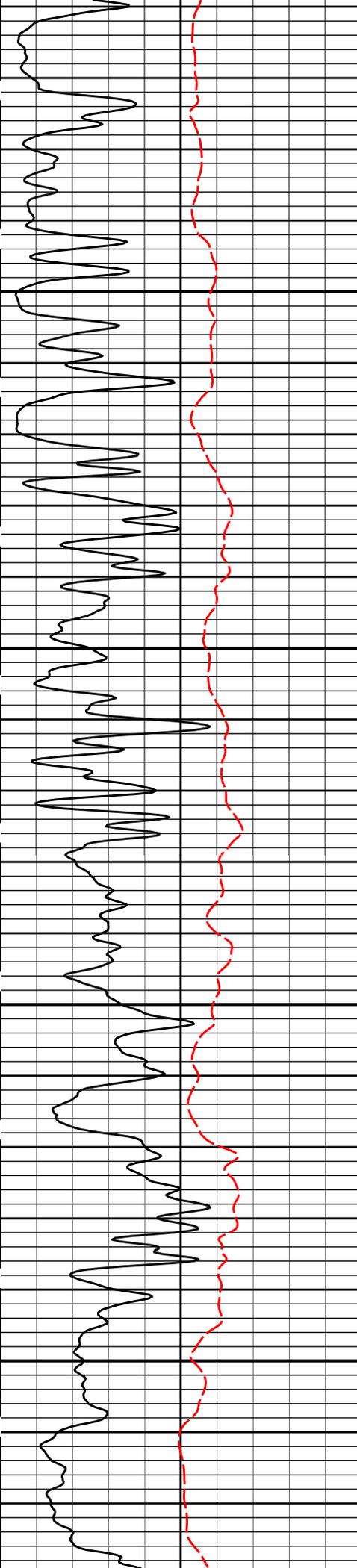
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1400



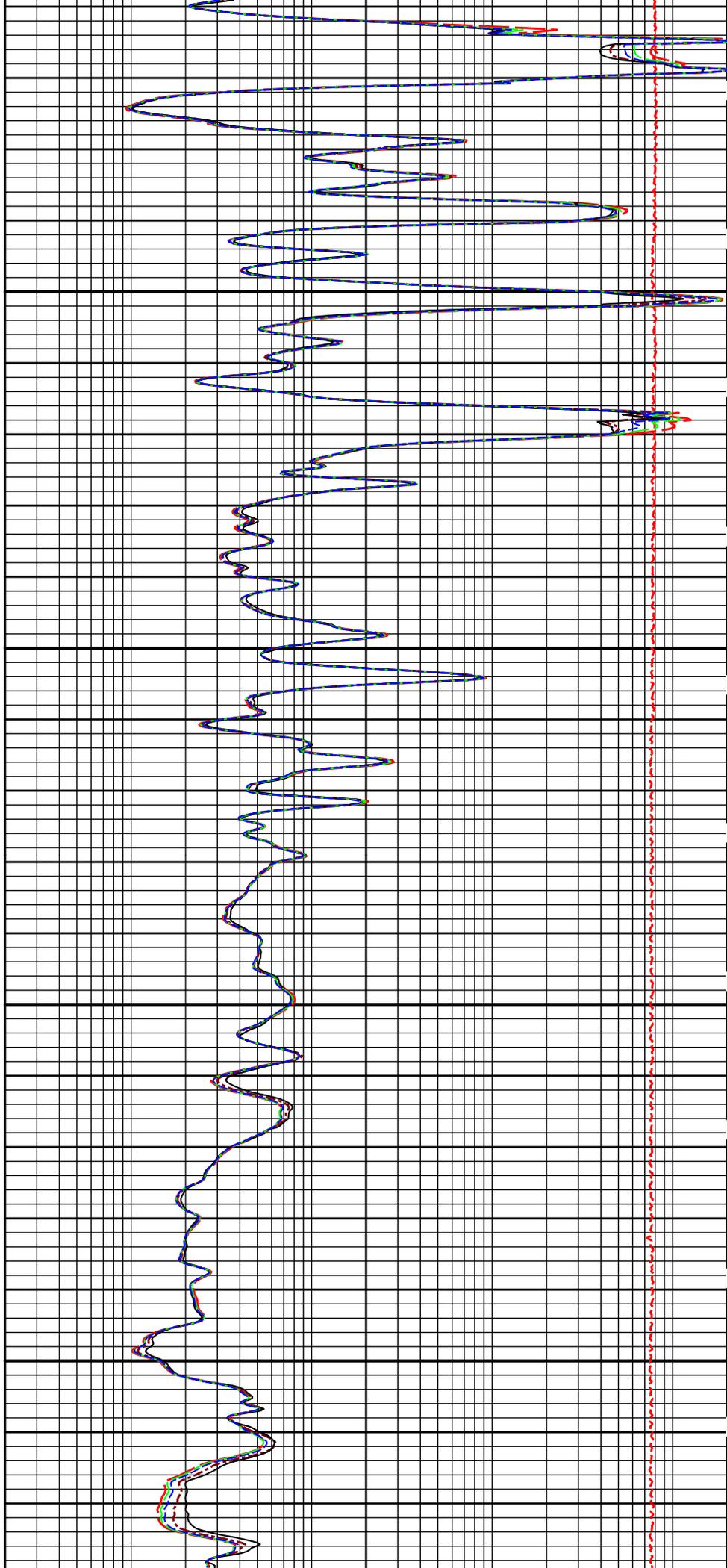


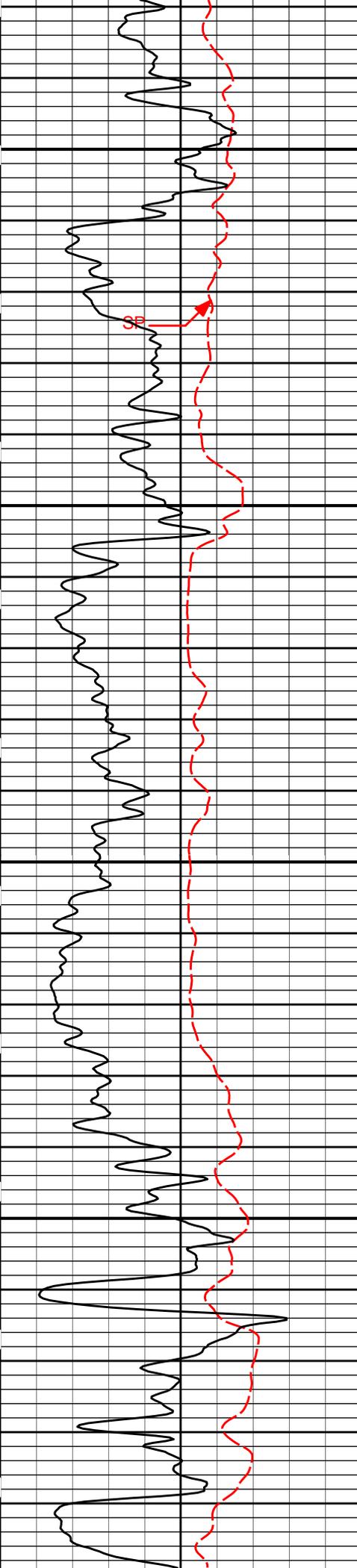




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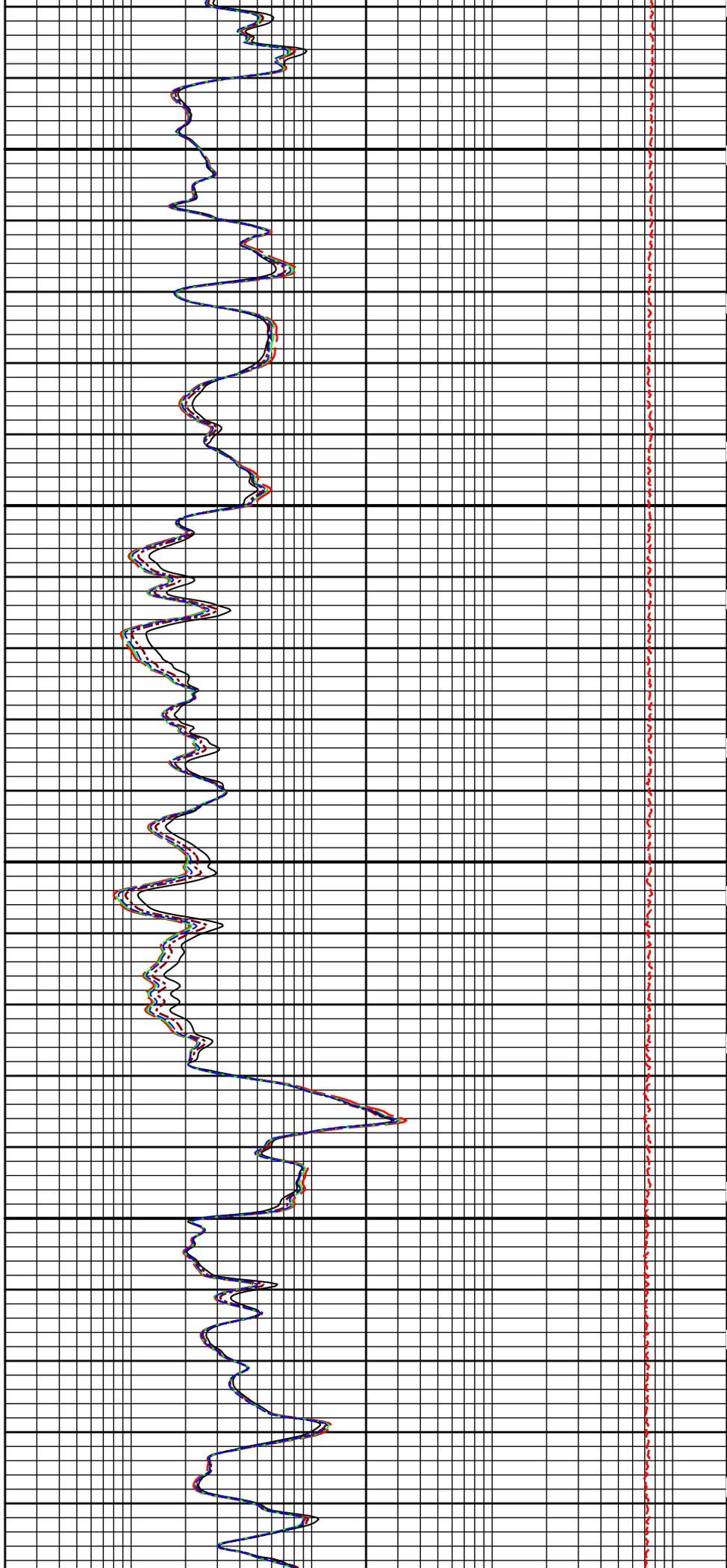
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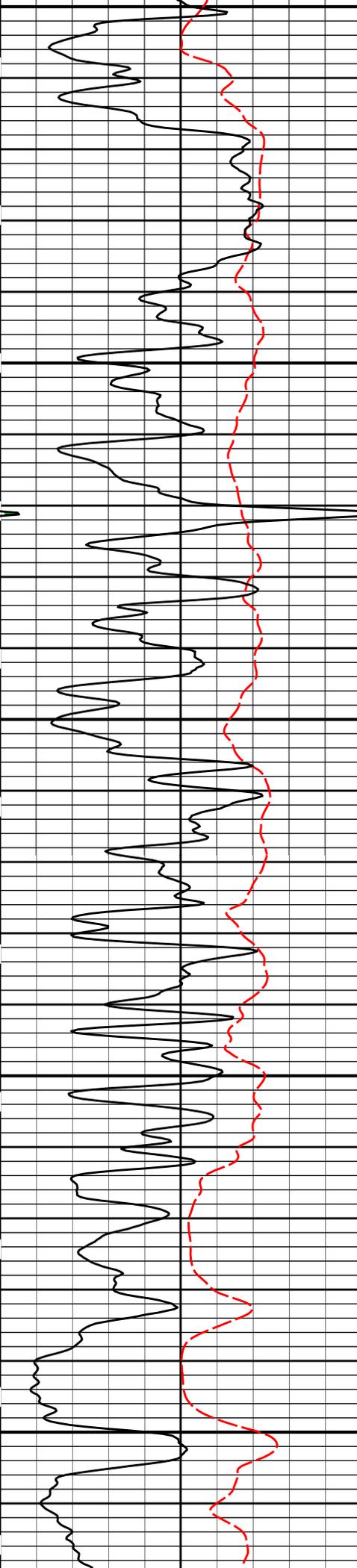




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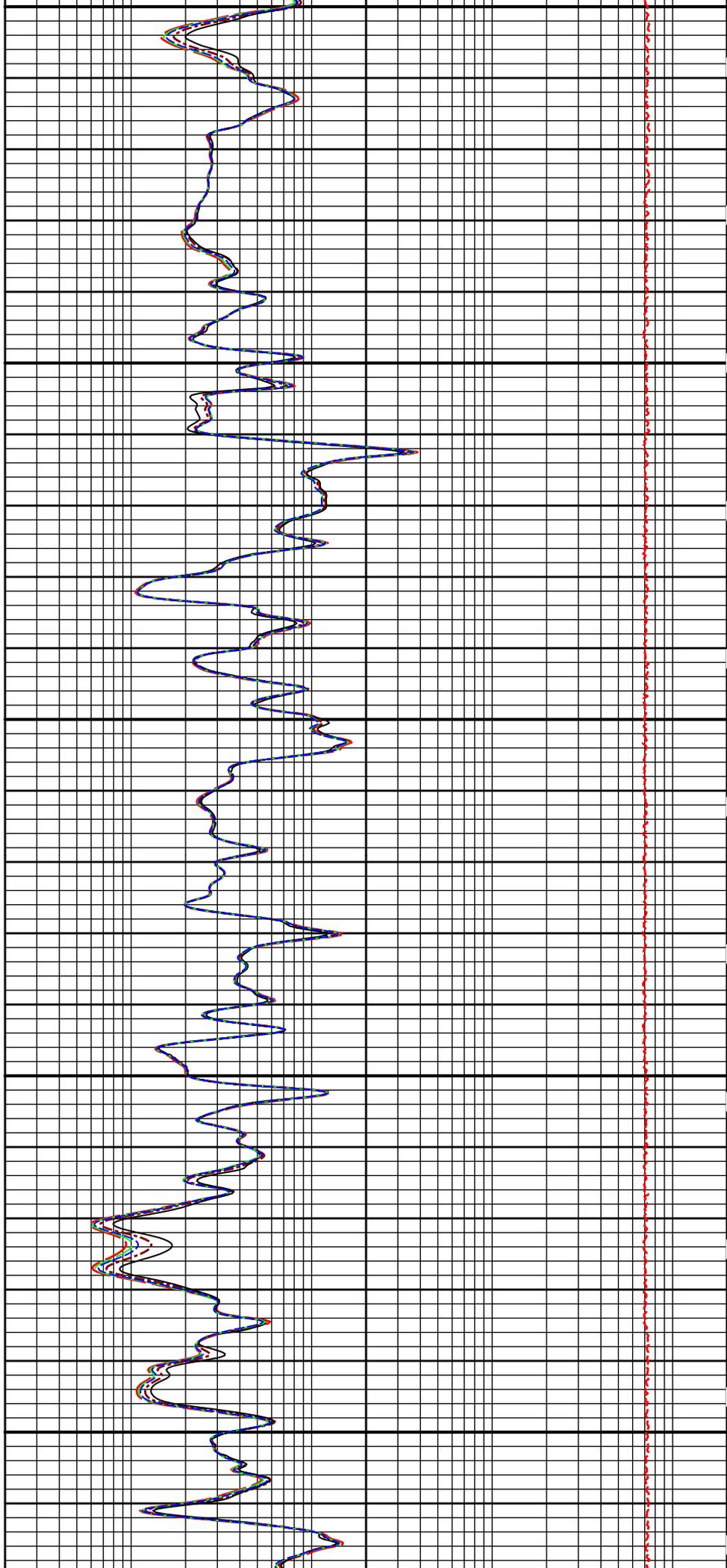
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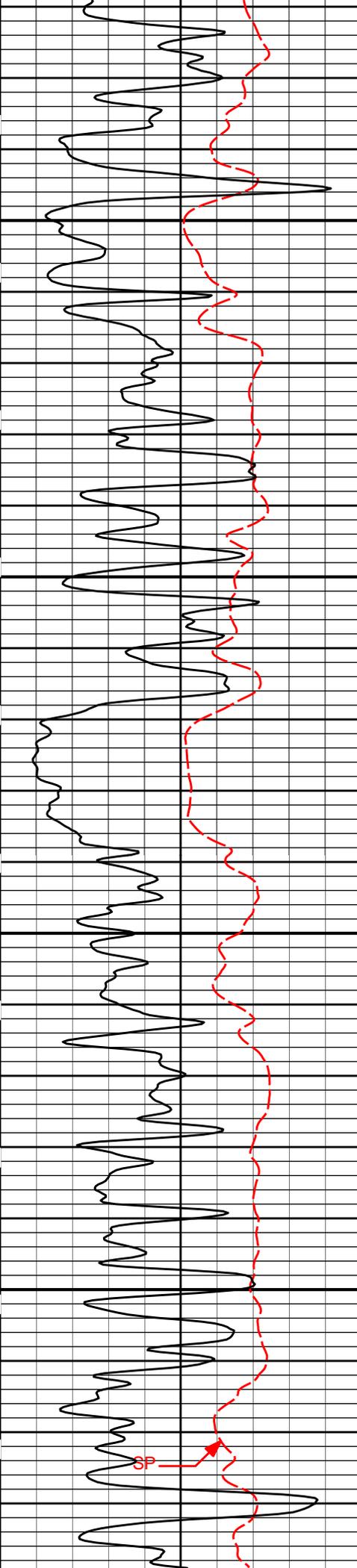




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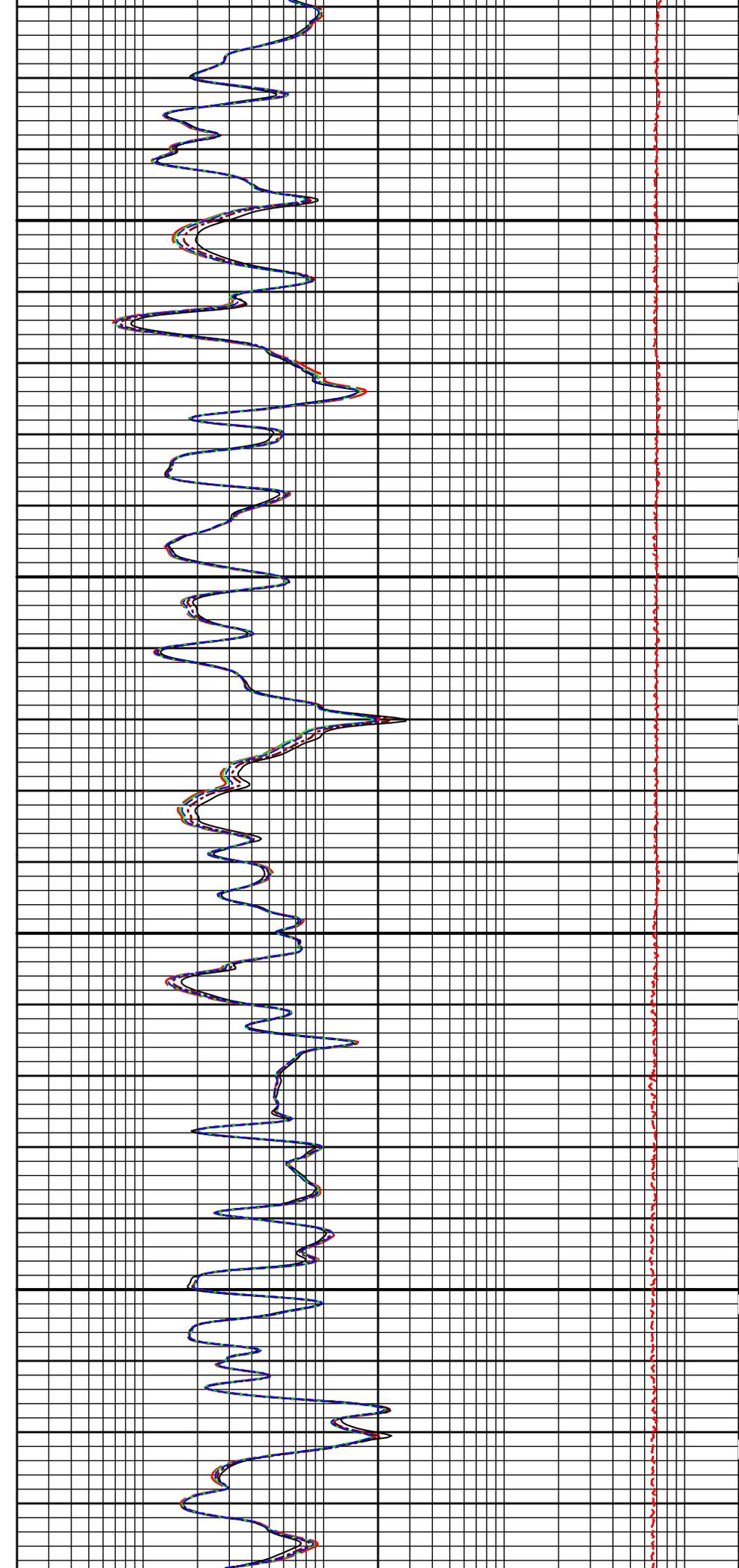
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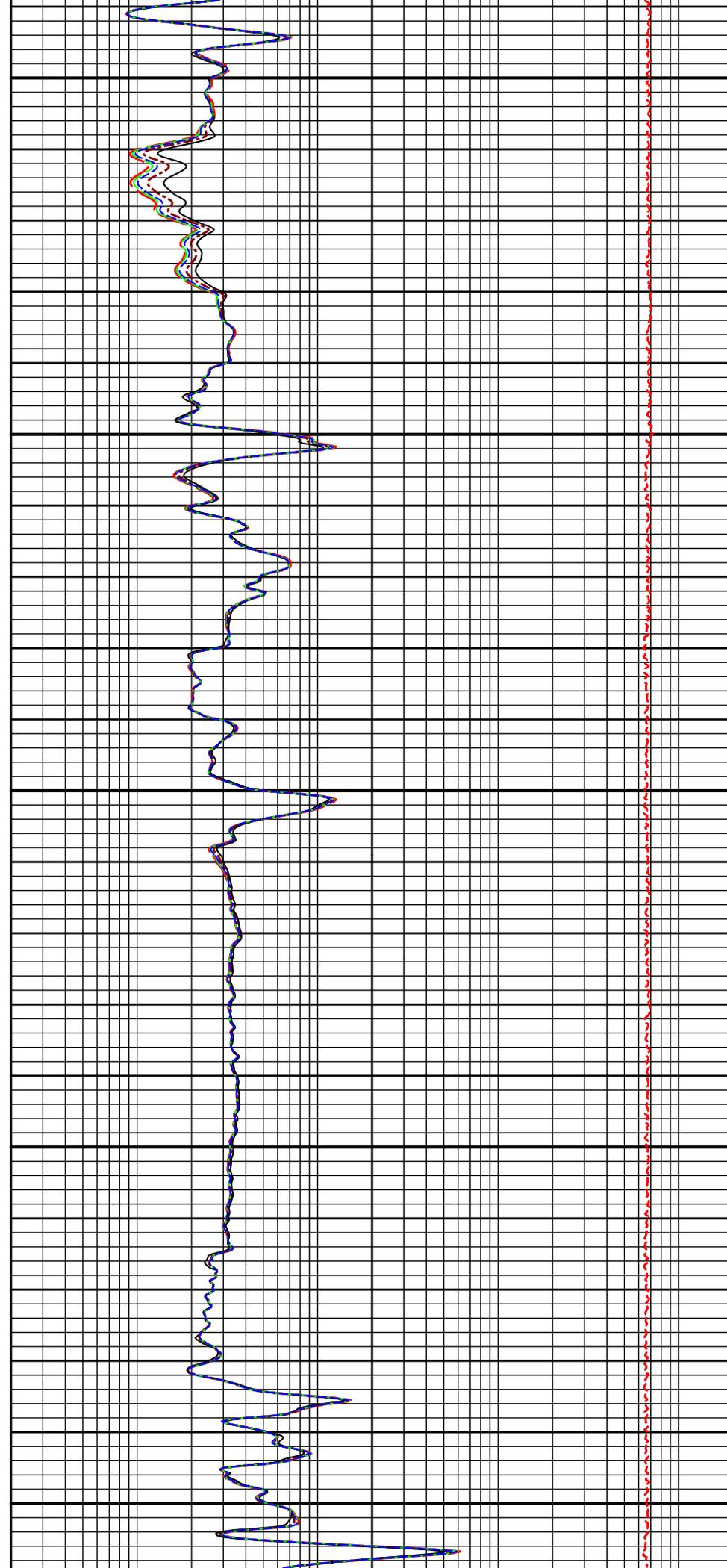
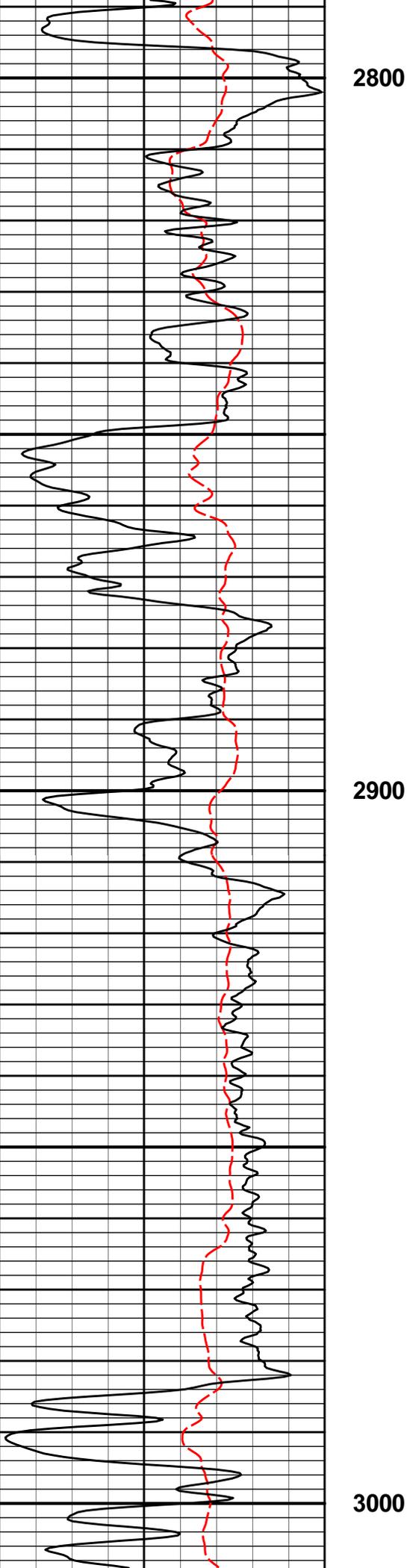


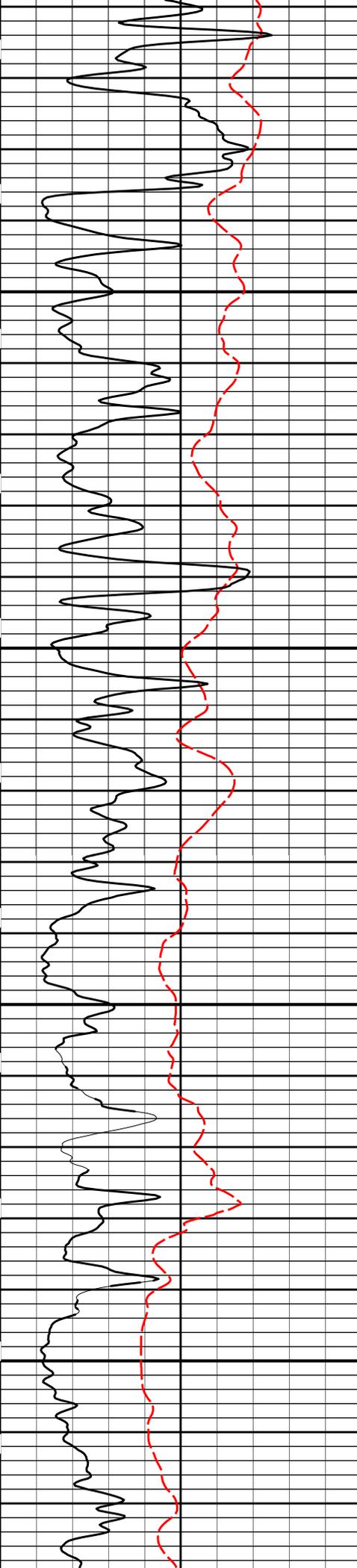


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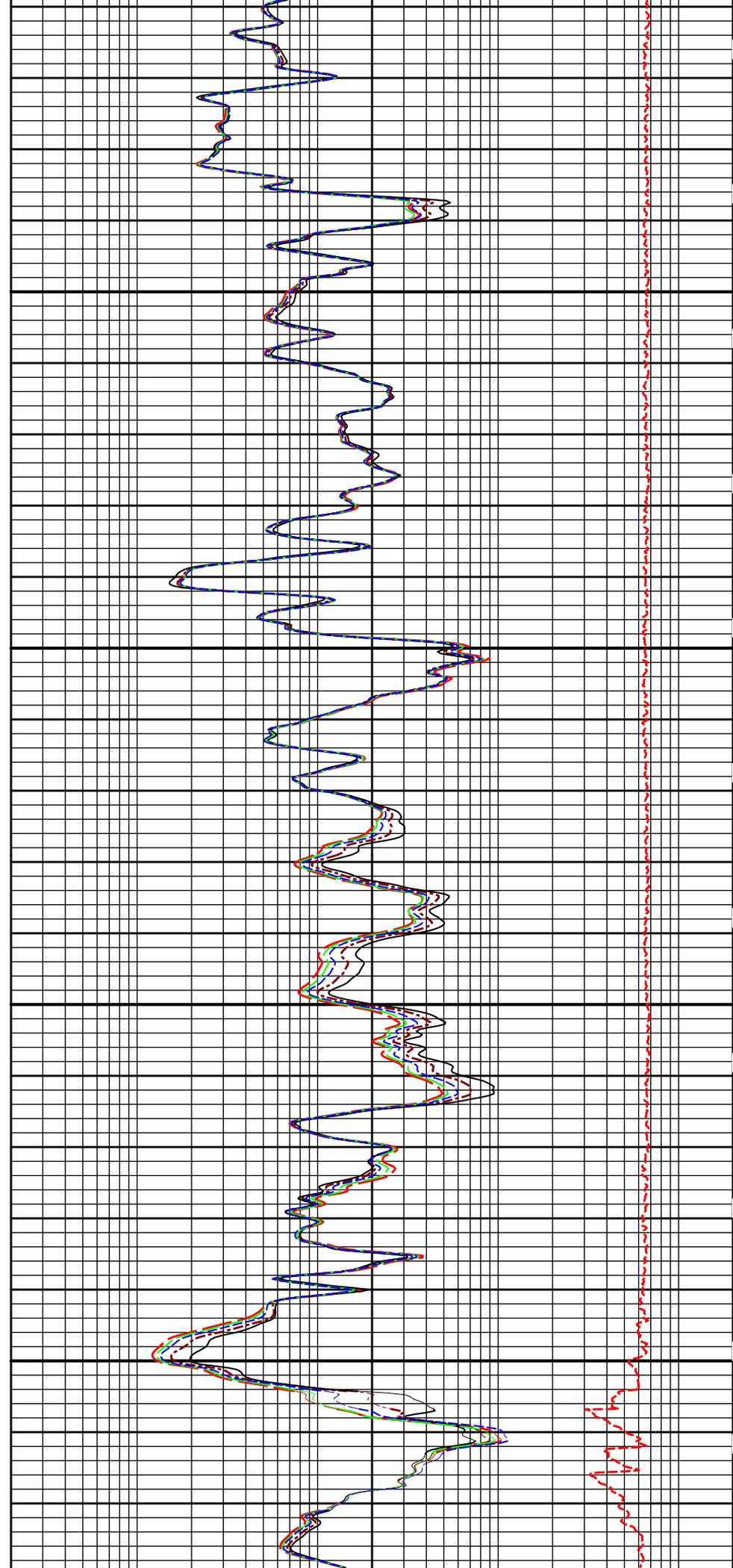


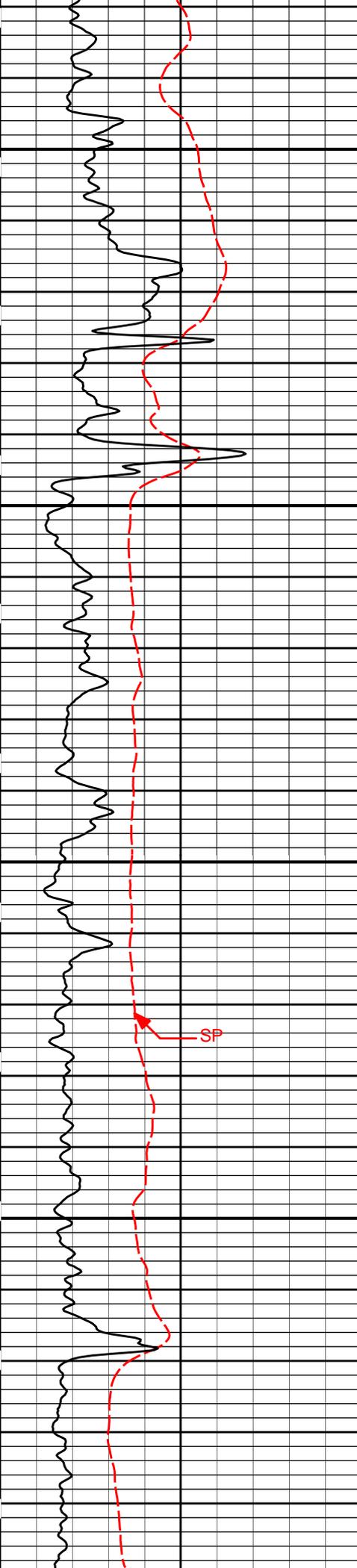




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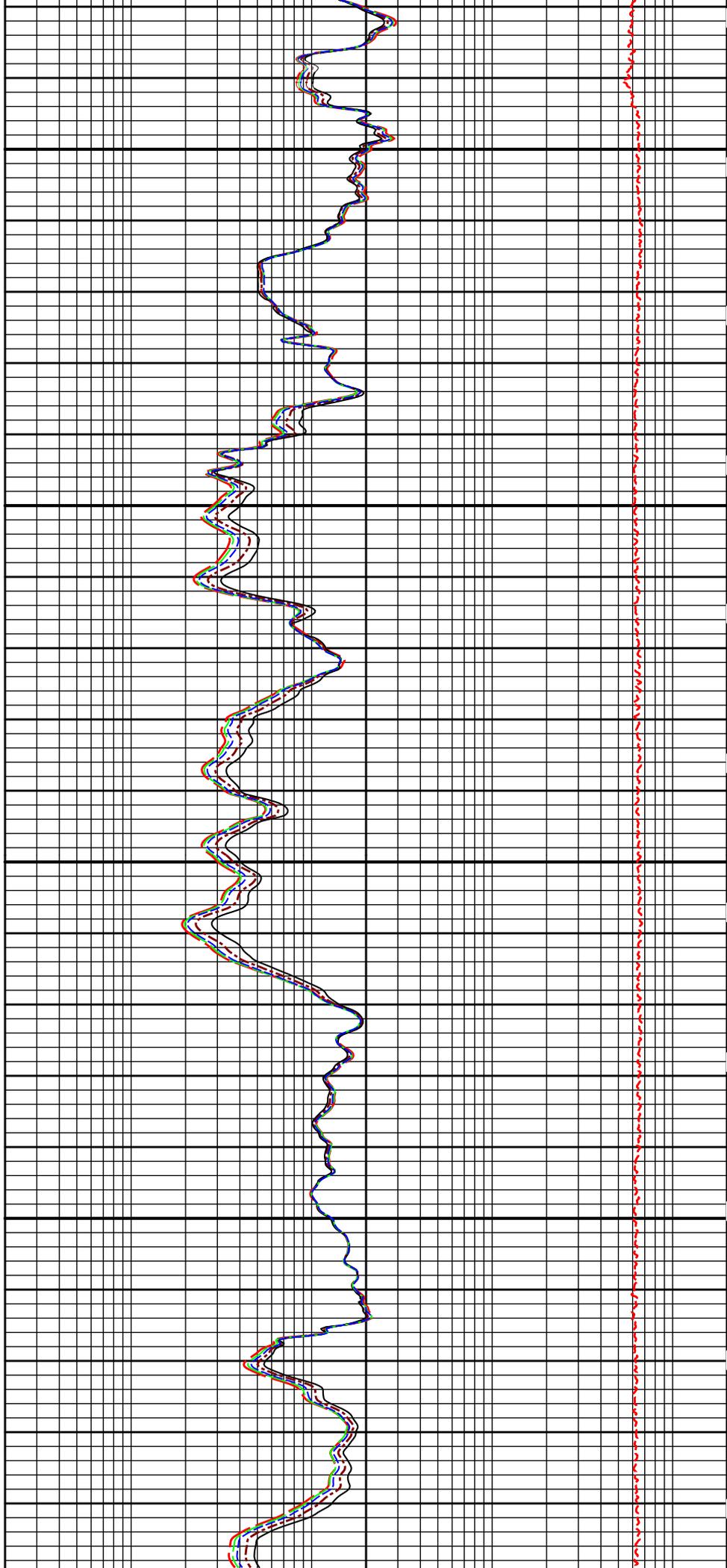
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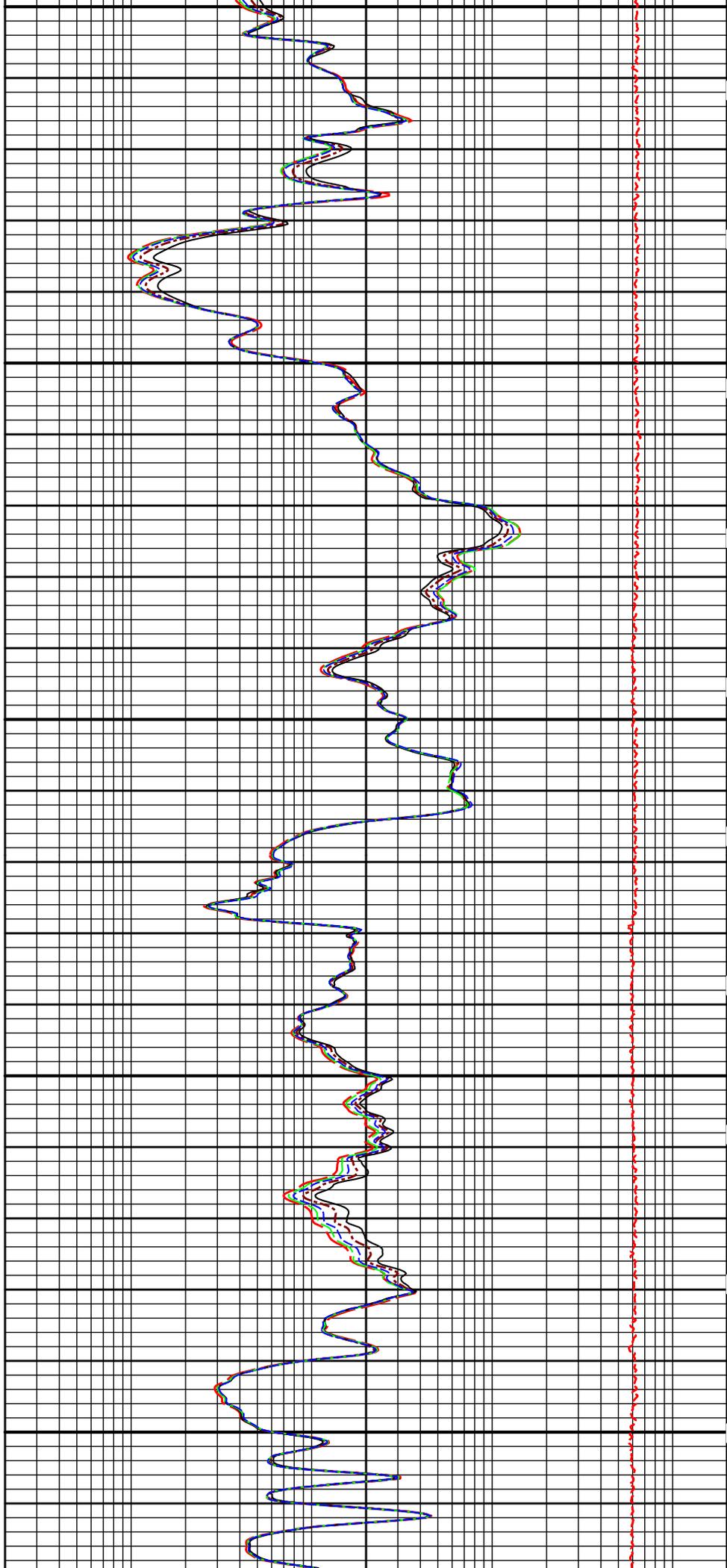
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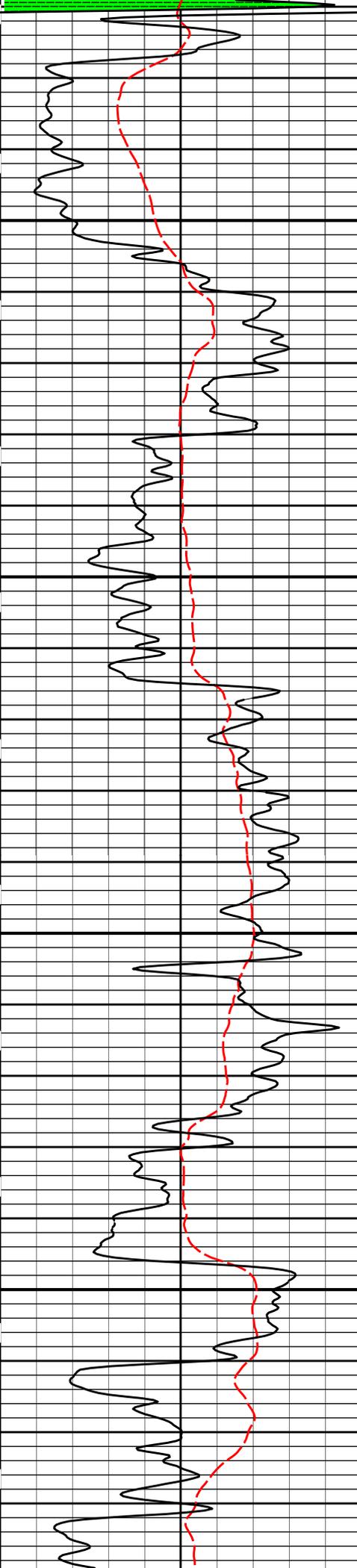




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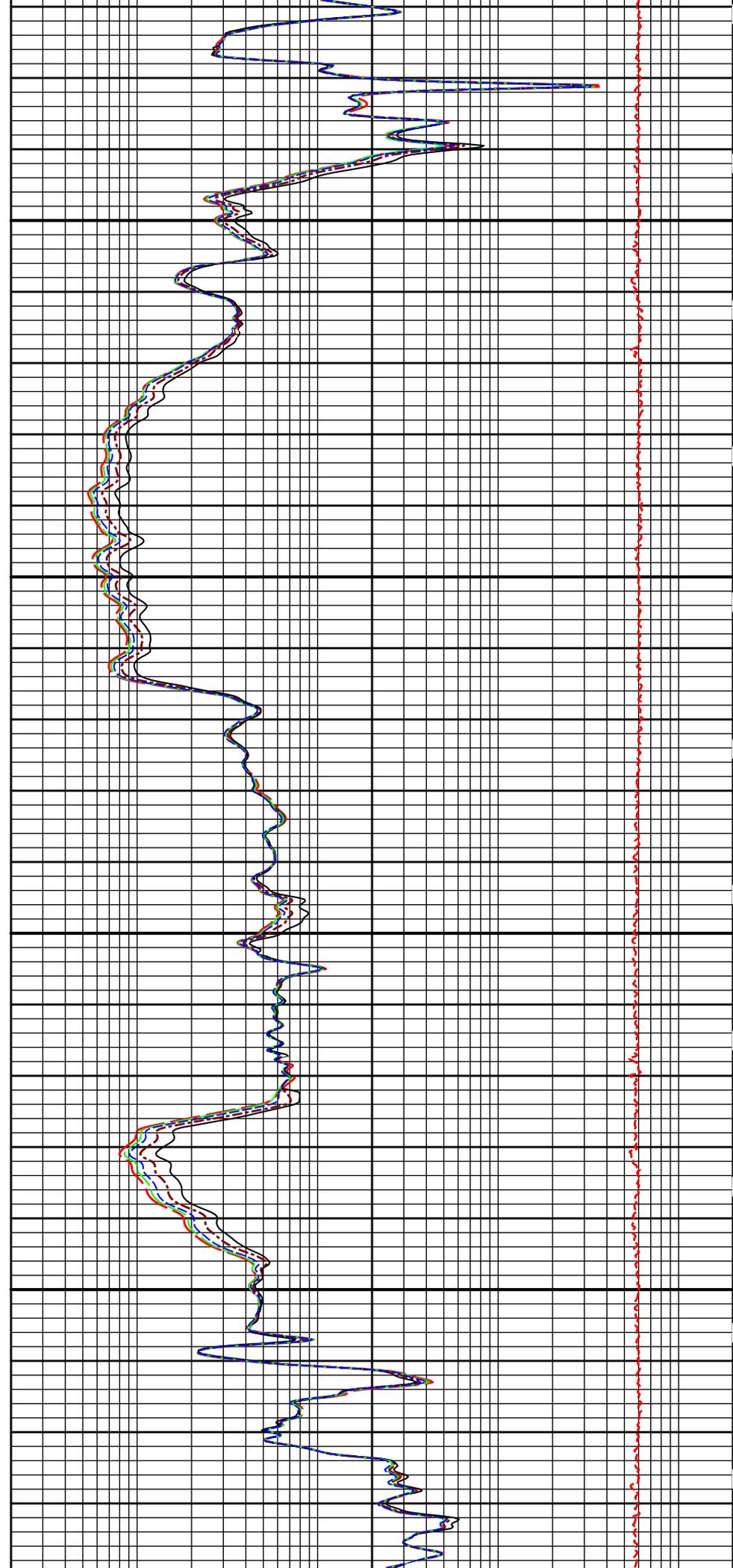
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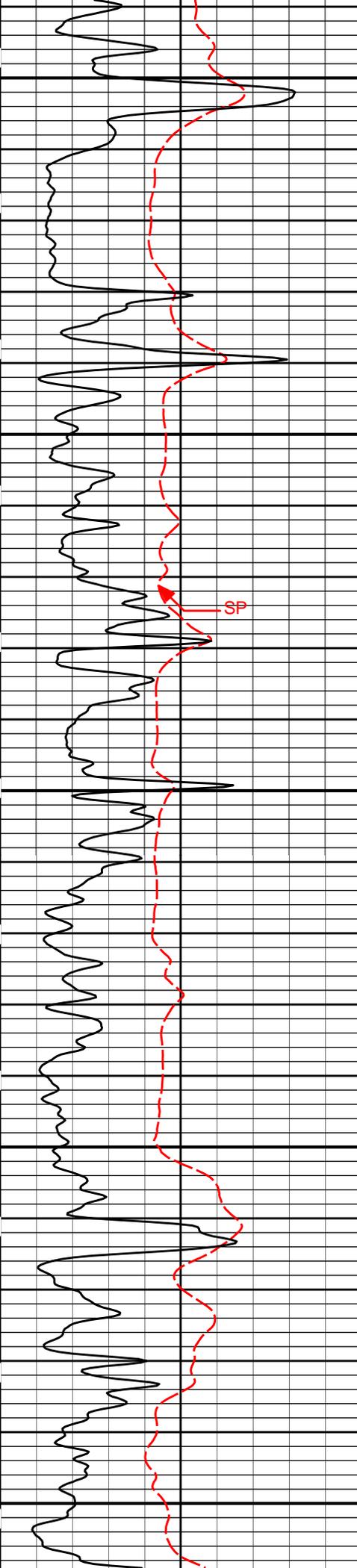




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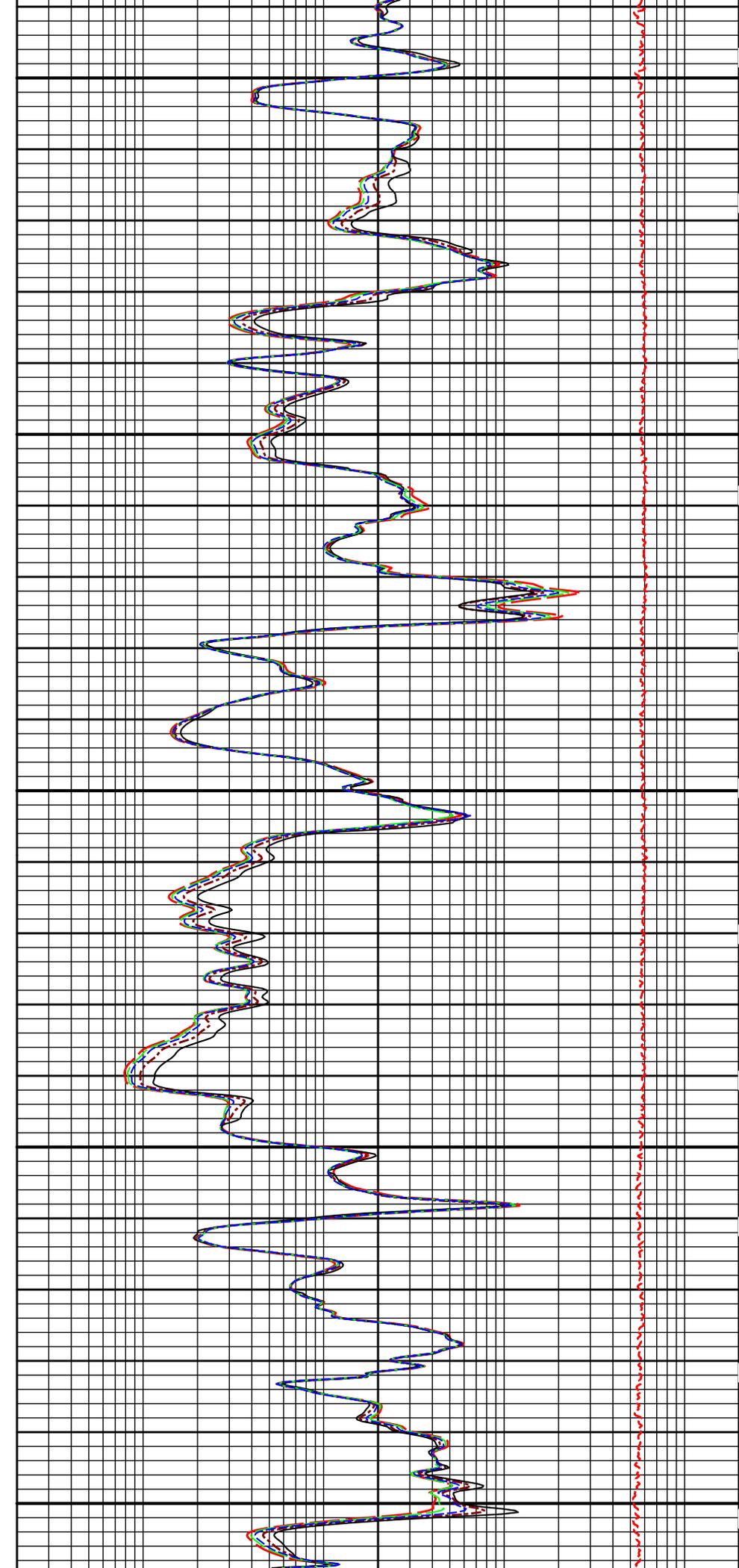


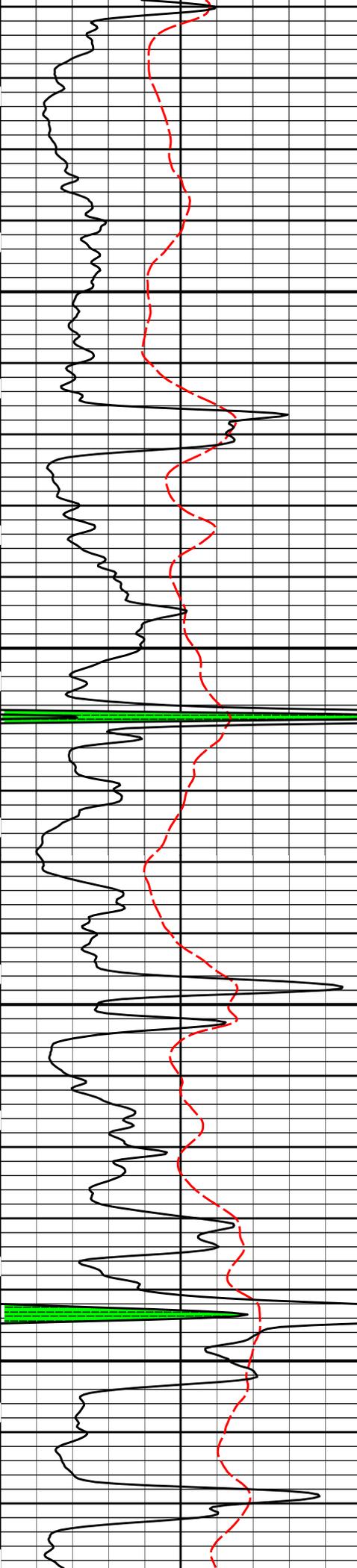


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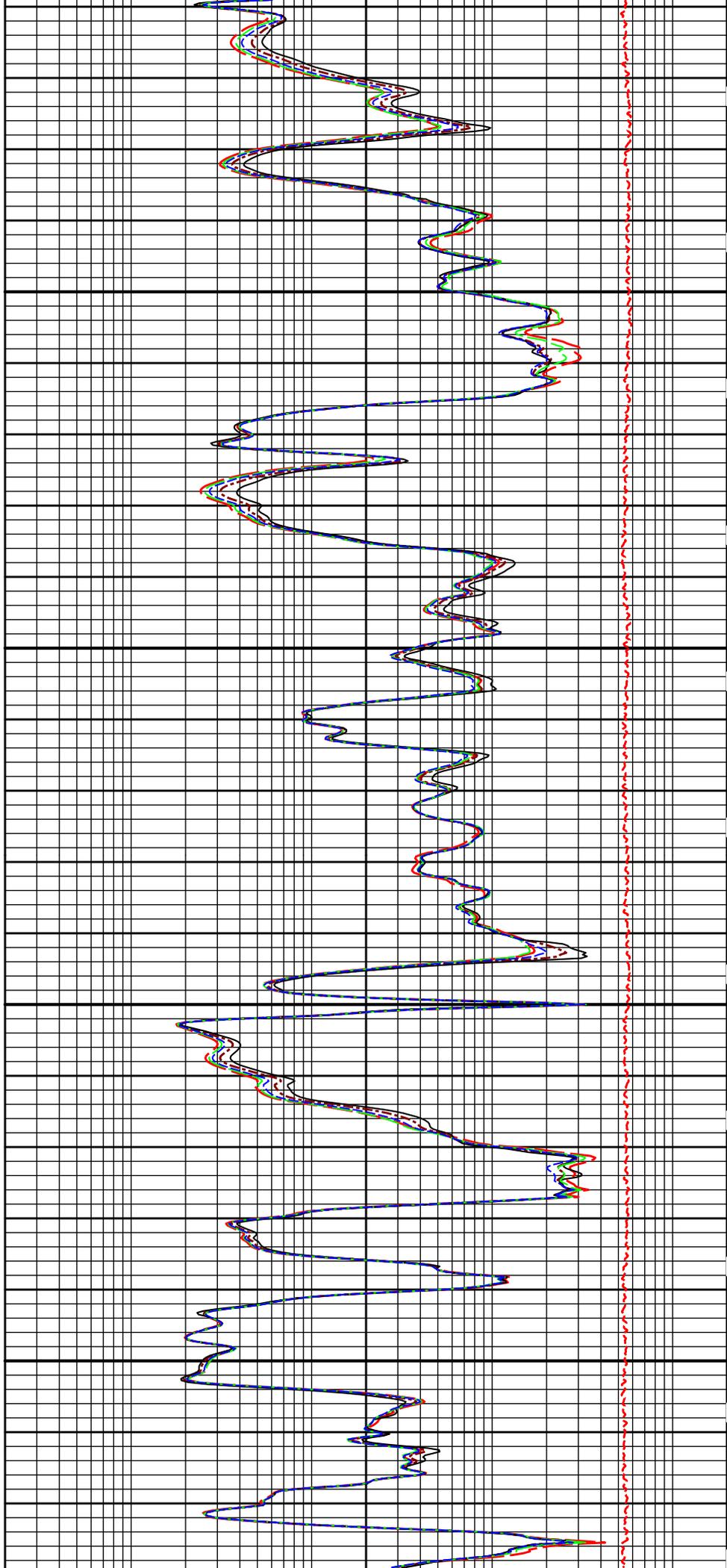
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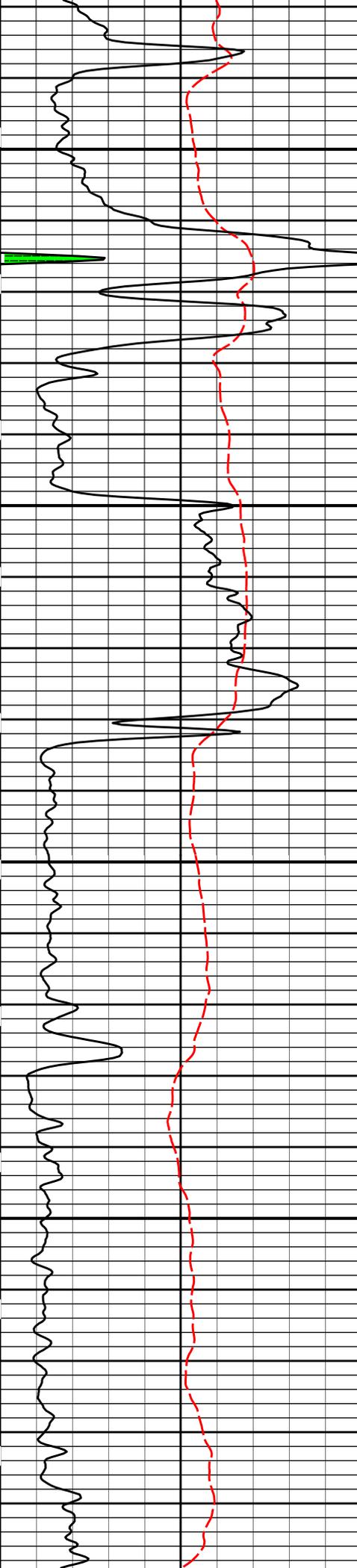




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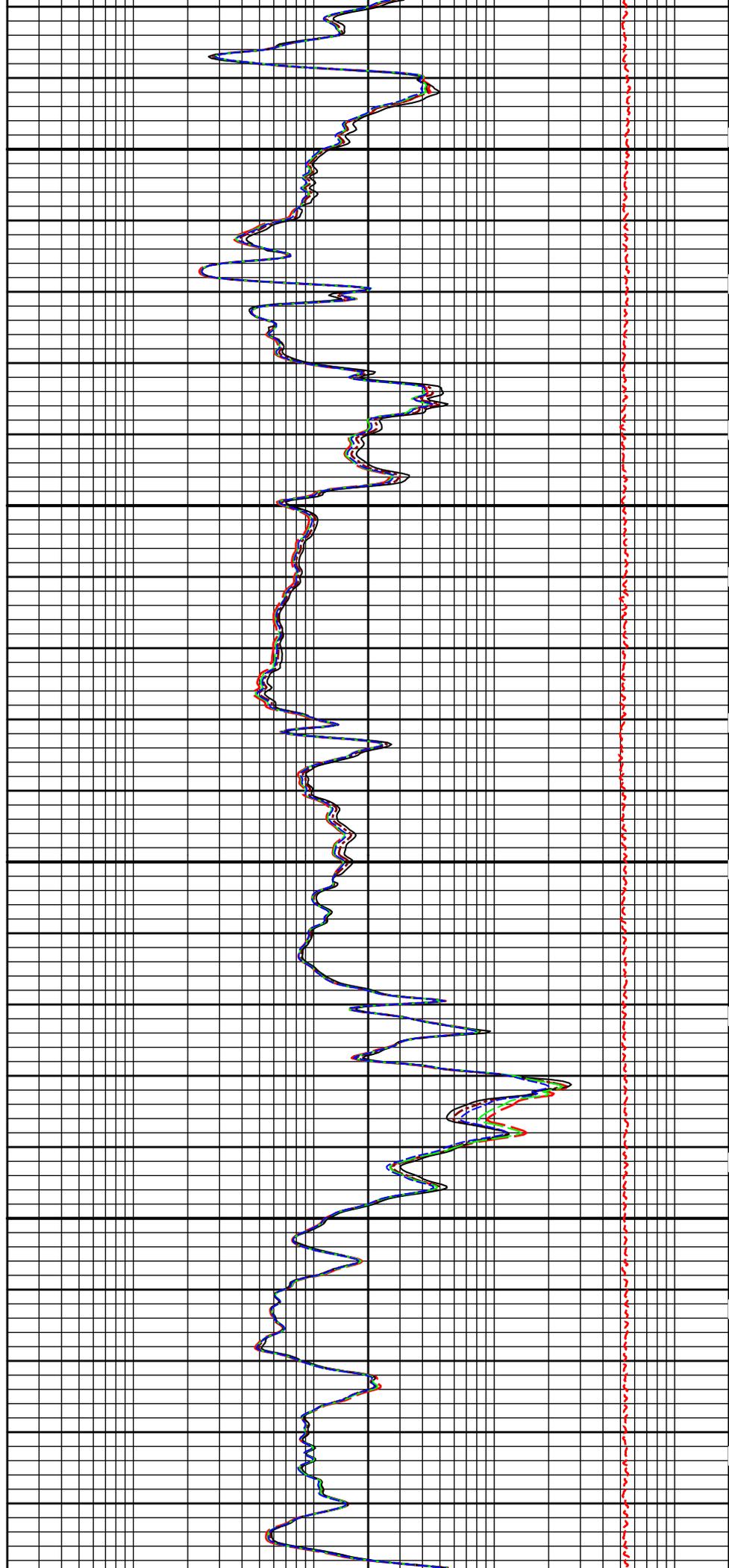
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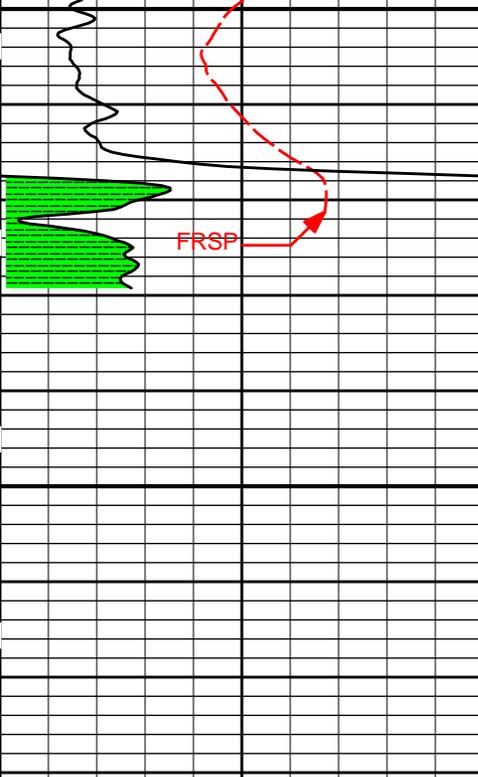




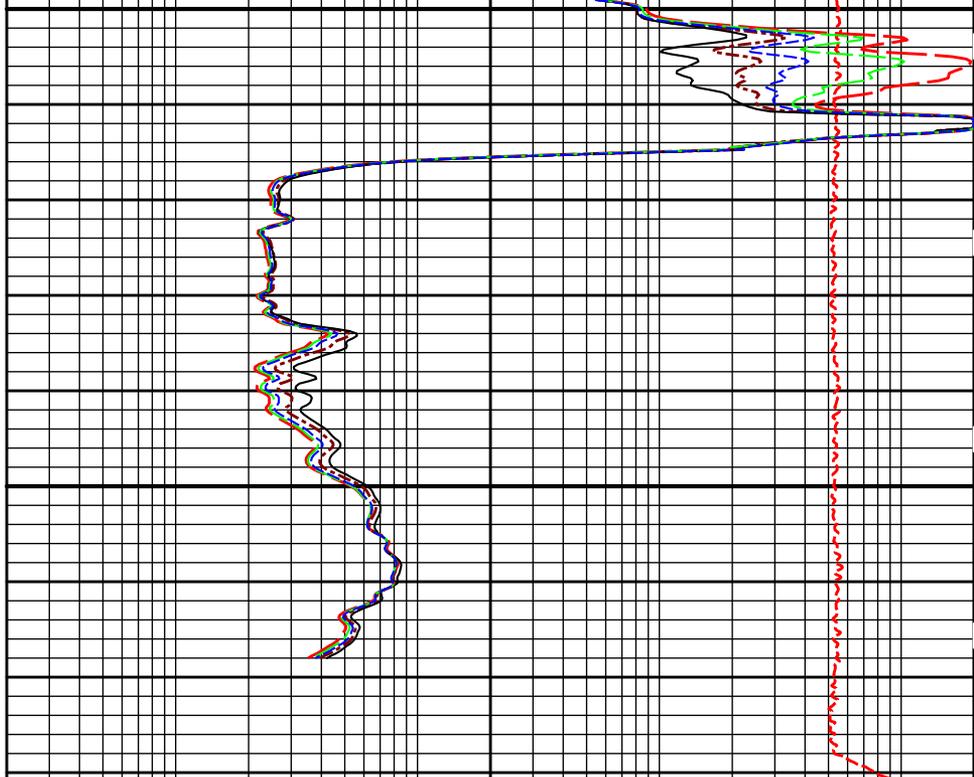
4400

4500





4600



SP	
-120[+	
0	150
Gamma API	
api	
SHALE	

MD
1 : 240
ft

10K Tension
pounds 0

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	

HALLIBURTON

Plot Time: 19-Jan-14 20:10:58
 Plot Range: 1023 ft to 4630.92 ft
 Data: LAMBERT 3014\Well Based\DAQ-0001-005\
 Plot File: \\-LOCAL-LAMBERT 3014\0001 SP-GTET-CSNG-DSN-SDL-ACRT-CHACRTIACRT_5_main_lib

5 INCH MAIN LOG

HALLIBURTON

Plot Time: 19-Jan-14 20:10:58
 Plot Range: 4358 ft to 4630.5 ft
 Data: LAMBERT 3014\Well Based\DAQ-0001-003\
 Plot File: \\-LOCAL-LAMBERT 3014\0001 SP-GTET-CSNG-DSN-SDL-ACRT-CHACRTIACRT_5_repeat_lib

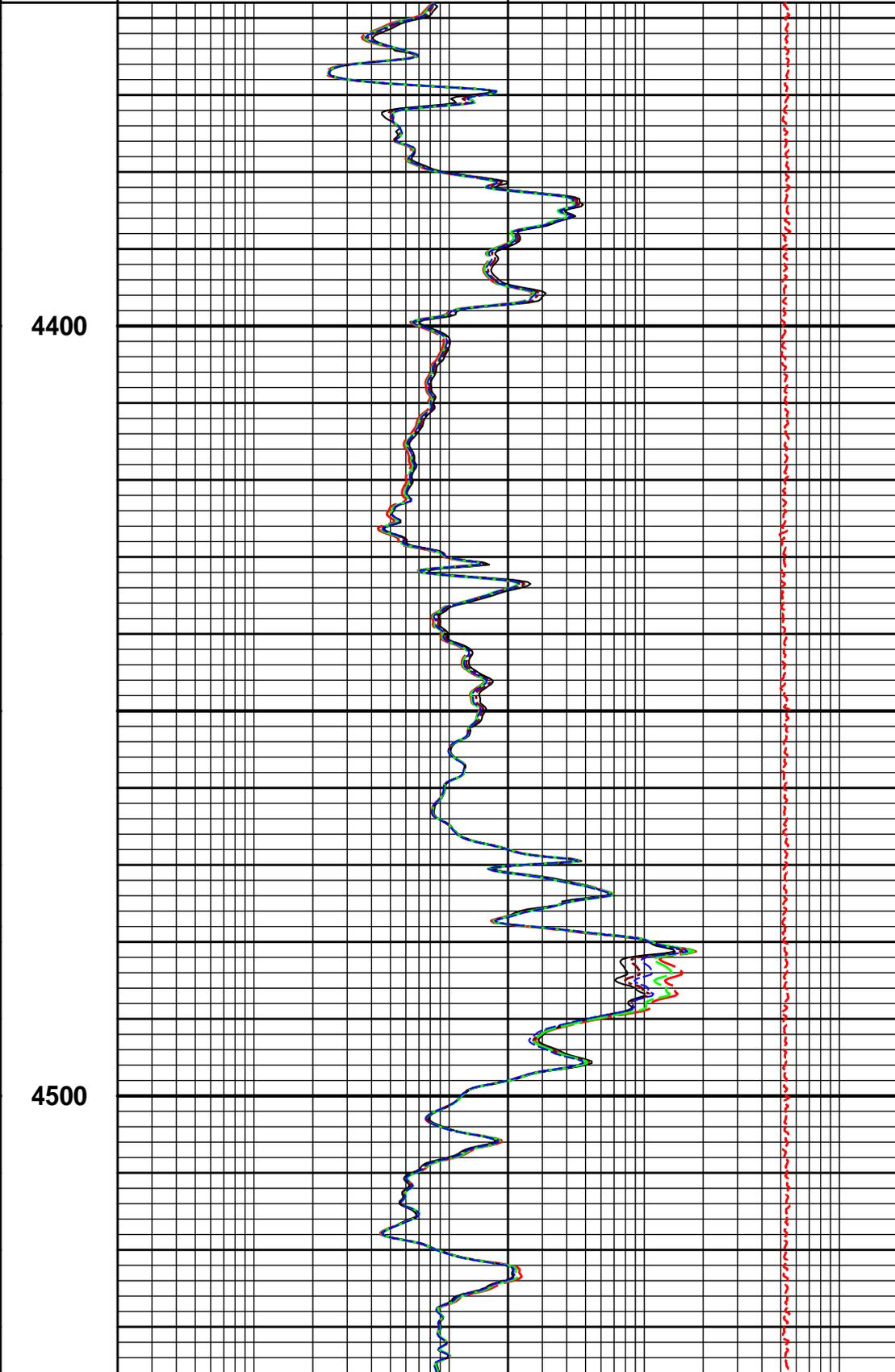
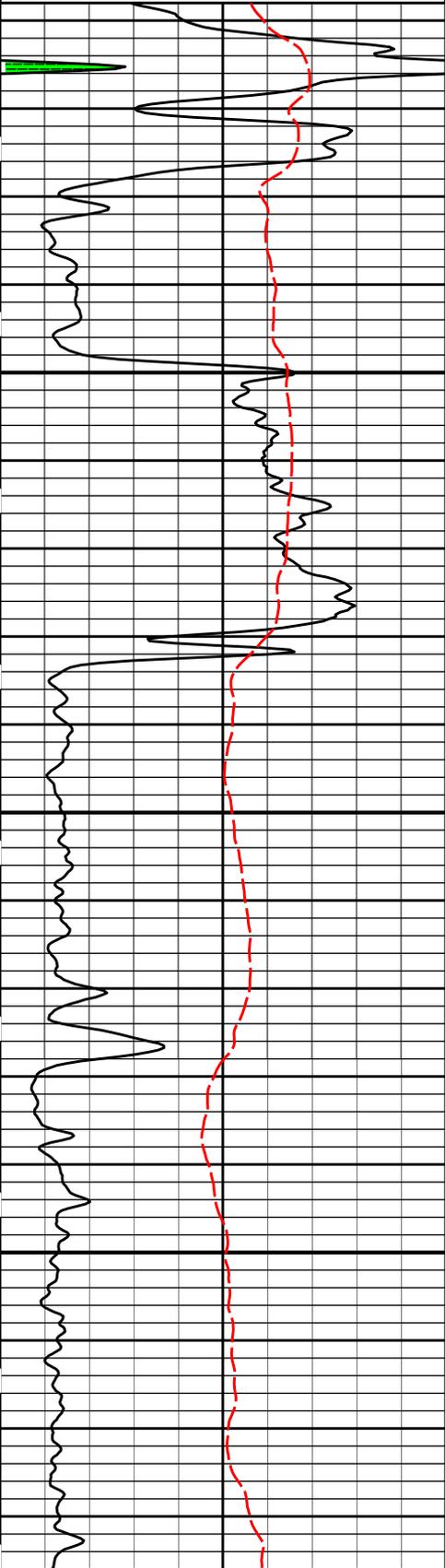
REPEAT SECTION

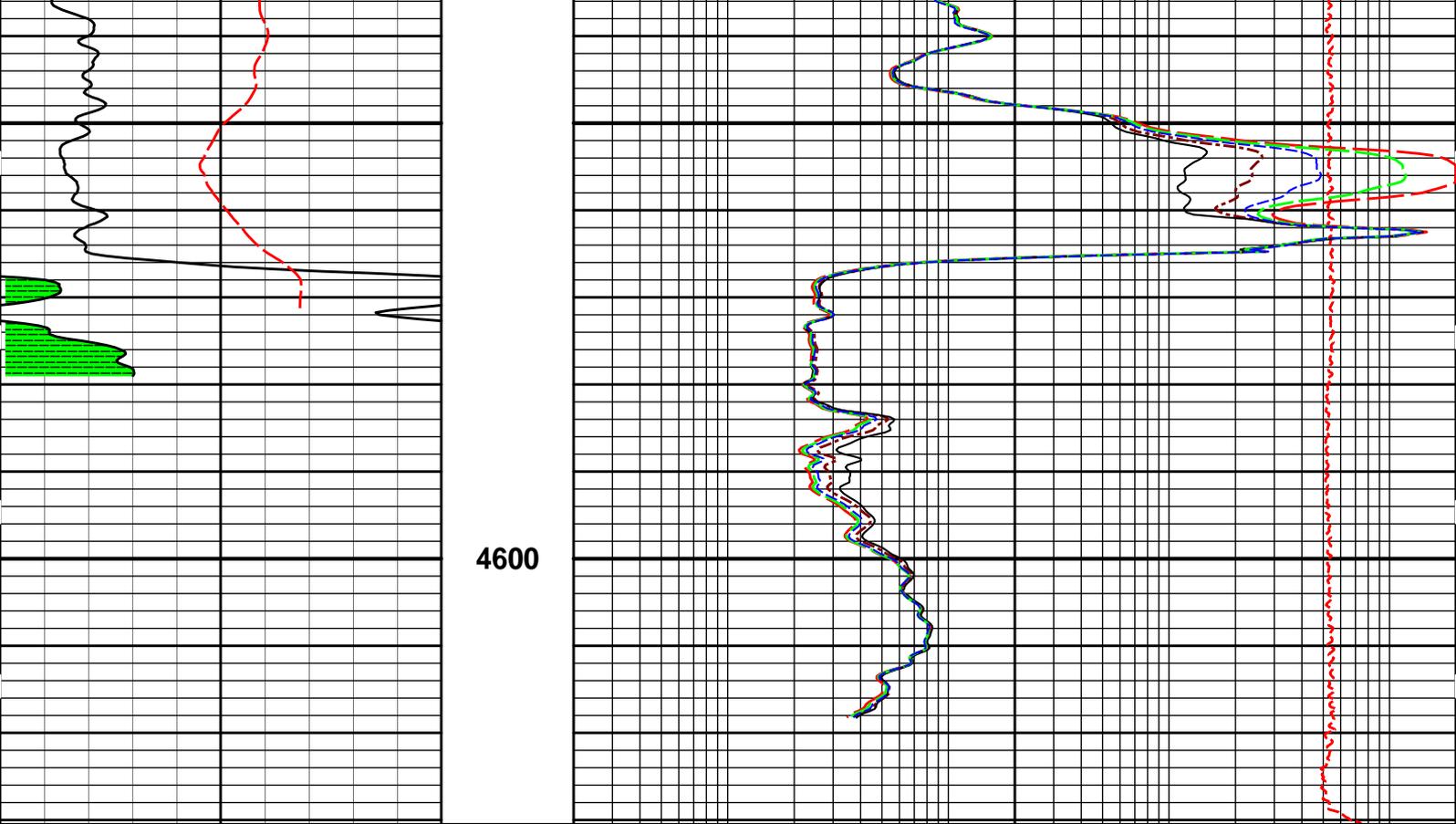
0.2	90in Resistivity 2ft Res	2000
	ohmm	
0.2	60in Resistivity 2ft Res	2000
	ohmm	

SHALE		
0	Gamma API	150
api		
SP		
- 20 +		

0.2	30in Resistivity 2ft Res	2000
ohm-metre		
0.2	20in Resistivity 2ft Res	2000
ohmm		
0.2	10in Resistivity 2ft Res	2000
ohmm		

MD 1 : 240 ft	10K	Tension pounds	0
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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				

HALLIBURTON

Plot Time: 19-Jan-14 20:11:01
 Plot Range: 4358 ft to 4630.5 ft
 Data: LAMBERT 3014\Well Based\DAQ-0001-003\
 Plot File: \\-LOCAL-\LAMBERT 3014\0001 SP-GTET-CSNG-DSN-SDL-ACRT-CHACRTACRT_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 @ 63.46 ft	3.03 ft	64.49 ft

XOHD-0000001
20.00 lbs

Ø 2.750 in
Ø 3.625 in

61.46 ft
0.95 ft

SP Sub-12345678
60.00 lbs

Ø 3.625 in

← SP @ 58.73 ft

60.51 ft
3.74 ft

GTET-11039640
165.00 lbs

Ø 3.625 in

← GammaRay @ 50.71 ft

56.77 ft
8.52 ft

CSNG-11830417
114.00 lbs

Ø 3.625 in

← CSNG @ 42.62 ft

48.25 ft
8.17 ft

DSN Decentralizer-
10755066
6.60 lbs

DSNT-10735145
174.00 lbs

Ø 5.000 in*
Ø 3.625 in

← DSN Far @ 33.15 ft
← DSN Near @ 32.40 ft

40.08 ft
9.69 ft
30.40 ft

SDLT-10673803
360.00 lbs

SDLT Pad-10673790
65.00 lbs
Microlog Pad-10673803
8.00 lbs

Ø 4.500 in
Ø 4.750 in*
Ø 4.750 in*

← Microlog @ 22.58 ft
← SDL Caliper @ 22.40 ft
← SDL @ 22.39 ft

10.81 ft
19.58 ft

ACRt Instrument-
10929776
50.00 lbs

Ø 3.625 in

5.03 ft

Regal Standoff 6_75-
0000001
20.00 lbs

Ø 6.750 in*

← Mud Resistivity @ 13.19 ft

14.55 ft

← ACRt @ 9.21 ft



ACRt Sonde-
10929775
200.00 lbs

Ø 3.625 in →

14.22 ft

Bull Nose-00000001
5.00 lbs

Ø 2.750 in →

0.33 ft

0.33 ft

0.00 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	61.46	300.00
XOHD	Hostile to Dits Cross Over	00000001	20.00	0.95	60.51	300.00
SP	SP Sub	12345678	60.00	3.74	56.77	300.00
GTET	Gamma Telemetry Tool	11039640	165.00	8.52	48.25	60.00
CSNG	Compensated Spectral Natural Gamma	11830417	114.00	8.17	40.08	15.00
DSNT	Dual Spaced Neutron	10735145	174.00	9.69	30.40	60.00
DCNT	DSN Decentralizer	10755066	6.60	5.13 *	33.73	300.00
SDLT	Spectral Density Tool	10673803	360.00	10.81	19.58	60.00
SDLP	Density Insite Pad	10673790	65.00	2.55 *	21.79	60.00
MICP	Microlog Pad	10673803	8.00	1.00 *	22.08	60.00
ACRt	Array Compensated True Resistivity Instrument Section	10929776	50.00	5.03	14.55	300.00
ACRt	Array Compensated True Resistivity Sonde Section	10929775	200.00	14.22	0.33	300.00
RSOF	Regal Standoff 6.75in	00000001	20.00	0.52 *	13.52	300.00
BLNS	Bull Nose	00000001	5.00	0.33	0.00	300.00

Total 1,285.10 64.49

* Not included in Total Length and Length Accumulation.

Data: LAMBERT 3014\0001 SP-GTET-CSNG-DSN-SDL-ACRT-CHNDLE

Date: 19-Jan-14 12:01:45

HALLIBURTON

CALIBRATION REPORT

NATURAL GAMMA RAY TOOL SHOP CALIBRATION

Tool Name: GTET - 11039640

Reference Calibration Date: 31-Dec-13 12:50:41

Engineer: THOMAS HYDE

Calibration Date: 07-Jan-14 14:53:41

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	44.8	44.4	api
Background + Calibrator	278.7	276.4	api
Calibrator	234.0	232.0	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11039640

Reference Calibration Date: 07-Jan-14 14:53:41

Engineer: THOMAS HYDE

Calibration Date: 19-Jan-14 12:04:21

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	44.4	45.7	api
Background + Calibrator	276.4	277.6	api
Calibrator	232.0	231.9	api

Shop	Field	Difference	Tolerance
232.0	231.9	0.1	+/- 9.00

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: ACRt Sonde - 10929775	Reference Calibration Date: 12-Nov-13 12:09:49
Engineer: J. BOLLUM	Calibration Date: 31-Dec-13 11:40:54
Software Version: WL INSITE R3.8.4 (Build 5)	Calibration Version: 1
Host Tool Name: ACRt Instrument - 10929776	

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.02	1.05	0.95	1.02	1.05	0.95	1.01	1.05
A2 (50")	0.95	1.02	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A3 (29")	0.95	1.02	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A4 (17")	0.95	1.02	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A5 (10")	N/A	N/A	N/A	0.95	1.03	1.05	0.95	1.03	1.05
A6 (6")	N/A	N/A	N/A	0.95	1.00	1.05	0.95	1.00	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	-1.71	2	-6	-4.61	-2	-8	-4.88	-2
A2 (50")	-7	-2.67	0	-7	-4.34	0	-7	-4.56	0
A3 (29")	-27	-15.25	-9	-9	-4.83	-3	-7	-2.94	-1
A4 (17")	-180	-104.14	-60	-45	-32.64	-15	-39	-25.47	-13
A5 (10")	N/A	N/A	N/A	-150	-120.85	-50	-80	-55.77	-10
A6 (6")	N/A	N/A	N/A	175	277.14	525	90	138.69	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.83	1.3
36K	1.0	1.16	2.0
72K	1.0	1.45	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	0.99	1.05

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
--------	------	-------	------	------------	-----------	-------

Gamma Ray Calibrator	232.0	231.9	-----	0.1	+/- 9.00	api
ACRt Sonde-10929775						
Mud Cell	0.99	-----	-----	0.00	-----	ohm-m

Data: LAMBERT 3014\0001 SP-GTET-CSNG-DSN-SDL-ACRT-CHMDLE Date: 19-Jan-14 12:24:59

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PARAMETERS REPORT

Depth (ft)	Tool Name	Mnemonic	Description	Value	Units
TOP					
	SHARED	BS	Bit Size	8.750	in
	SHARED	UBS	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	MDBS	Mud Base	Water	
	SHARED	MDWT	Borehole Fluid Weight	9.200	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	75.0	degF
	SHARED	TD	Total Well Depth	4638.00	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	
	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	
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: LAMBERT 3014\0001 SP-GTET-CSNG-DSN-SDL-ACRT-CH\IDLE

Date: 19-Jan-14 12:19:58

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INPUTS, DELAYS AND FILTERS TABLE

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	58.73	NO	
SP	Spontaneous Potential	58.73	BLK	1.250
SPR	Raw Spontaneous Potential	58.73	NO	
SPO	Spontaneous Potential Offset	58.73	NO	
GTET				
TPUL	Tension Pull	50.71	NO	
GR	Natural Gamma Ray API	50.71	TRI	1.750
GRU	Unfiltered Natural Gamma Ray API	50.71	NO	
EGR	Natural Gamma Ray API with Enhanced Vertical Resolution	50.71	W	1.416 , 0.750
ACCZ	Accelerometer Z	0.00	BLK	0.083
DEVI	Inclination	0.00	NO	

DEVI	Incident	0.00	NO	
CSNG				
TPUL	Tension Pull	42.62	NO	
STAT	Status	42.62	NO	
FRMC	Tool Frame Count	42.62	BLK	0.250
TFRM	Total Frames	42.62	NO	
LSPD	Line Speed	42.62	BLK	0.250
CTIM	Accumulation time for sample	42.62	BLK	0.250
NOIS	Spectral Noise	42.62	BLK	0.250
STAB	Stabilizer Voltage in mv	42.62	BLK	0.250
STBP	Stabilizer 60 KEV Peak	42.62	BLK	0.250
AMER	Americium	42.62	BLK	0.250
FTMP	Flask PCB Temperature	42.62	BLK	0.250
SPEL	Low Energy Spectrum	42.62	BLK	0.250
SPEH	High Energy Spectrum	42.62	BLK	0.250
SSP	Stabilization Energy Spectrum	42.62	BLK	0.250
CSPC	CSNG Lo Hi Spectrum Data	42.62	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

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
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Microlog Pad

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

Data: LAMBERT 3014\0001 SP-GTET-CSNG-DSN-SDL-ACRT-CH\IDLE Date: 19-Jan-14 12:20:06

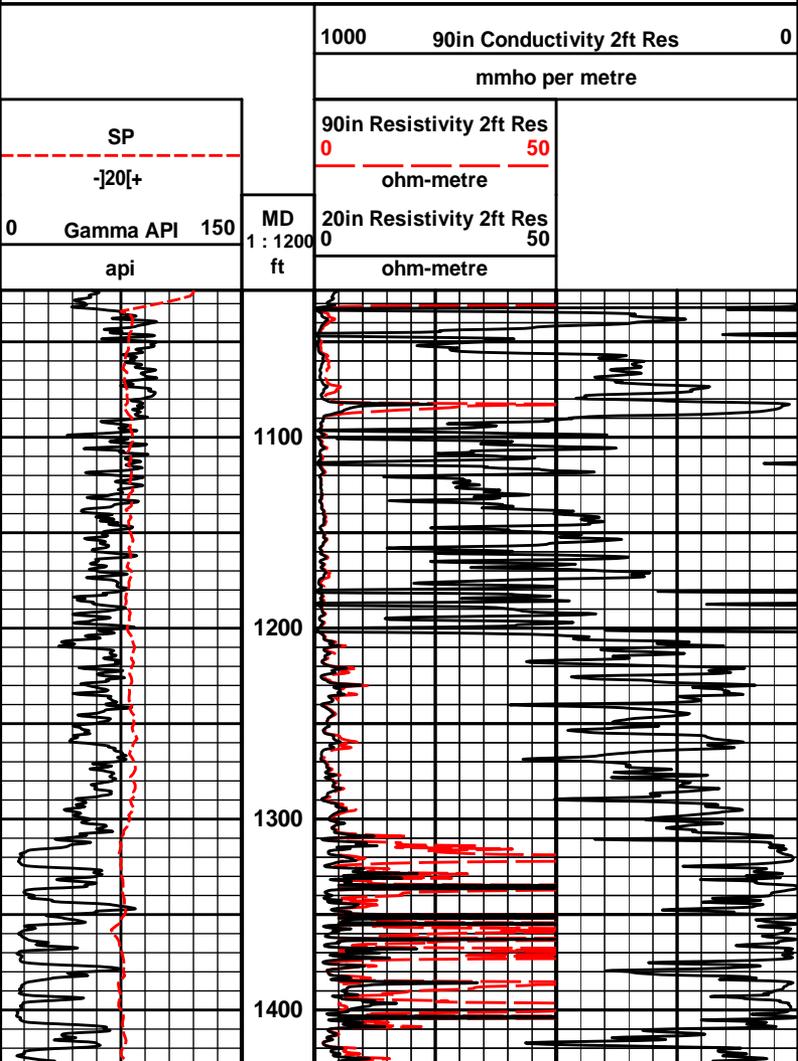
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WELL	LAMBERT 3014 1-34		
FIELD	SKINNER		
COUNTY	BARBER	STATE	KANSAS

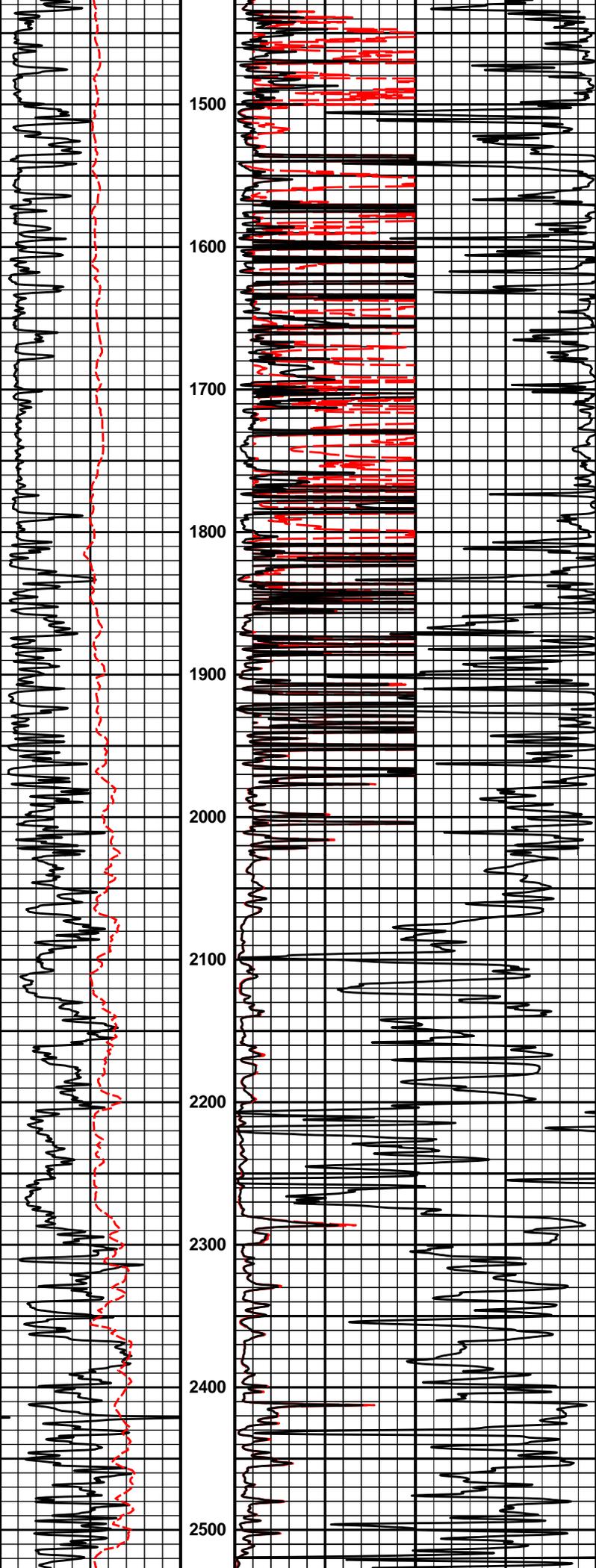
HALLIBURTON

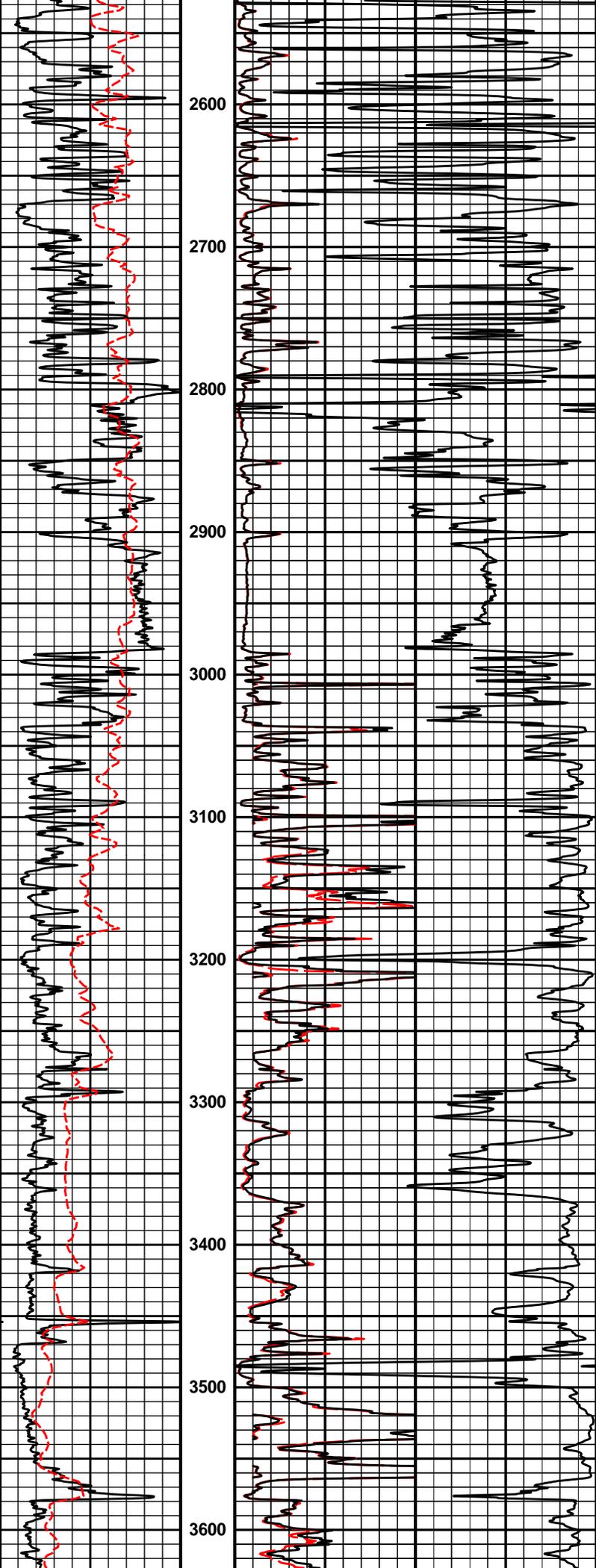
ARRAY COMPENSATED
TRUE RESISTIVITY
LOG

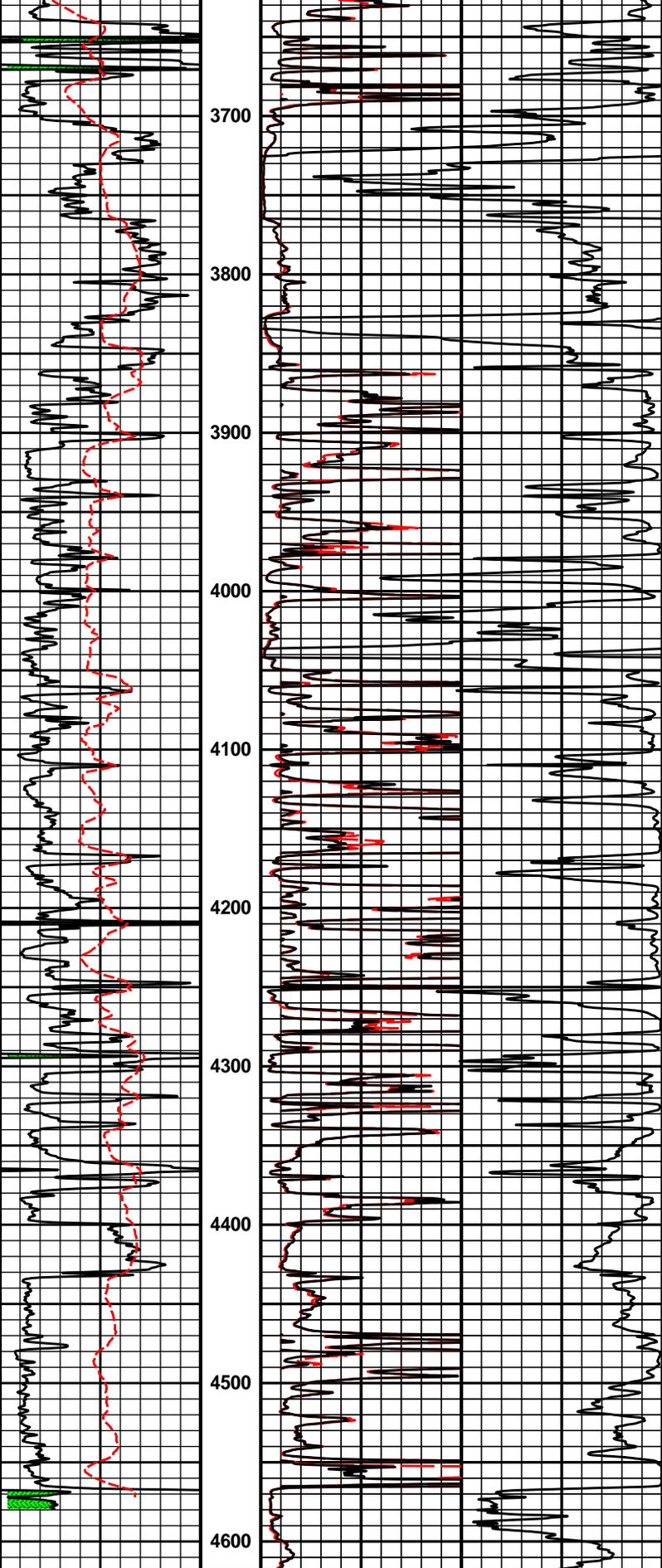
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 Plot Range: 1023 ft to 4618 ft
 Data: LAMBERT 3014\Well Based\DAQ-0001-005\
 Plot File: \\-LOCAL-LAMBERT 3014...\ACRT_1_lib

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: 19-Jan-14 20:11:03

Plot Range: 1023 ft to 4618 ft

Data: LAMBERT 3014\Well Based\DAQ-0001-005\

Plot File: \\-LOCAL-\LAMBERT 3014...\ACRT_1_lib

1 INCH MAIN LOG