

Schlumberger

Company: **TEP ROCKY MOUNTAIN LLC**

Well: **SR 513-12**Field: **Rulison**

County: **Garfield**

State: **Colorado**

Triple Combo

<h1>Triple Combo</h1>																				
County: Garfield																				
Field: Rulison																				
Location: NESW Sec. 12 T7S R94W																				
Well: SR 513-12																				
Company: TEP ROCKY MOUNTAIN LLC																				
<table border="1"> <thead> <tr> <th colspan="2">LOCATION</th> <th colspan="2"></th> </tr> </thead> <tbody> <tr> <td colspan="2"> NESW Sec. 12 T7S R94W SHL: 1777 FSL 2302 FWL Latitude: 39.451082 Longitude: -107.836658 </td> <td colspan="2"> Elev.: K.B. 24.00 ft G.L. 5224.00 ft D.F. 23.00 ft </td> </tr> <tr> <td> Permanent Datum: _____ Log Measured From: _____ Drilling Measured From: _____ </td> <td colspan="3"> Ground Level _____ Kelly Bushing _____ Kelly Bushing _____ </td> </tr> <tr> <td> API Serial No. 05-045-23441 </td> <td> Section 12 </td> <td> Township 7S </td> <td> Range 94W </td> </tr> </tbody> </table>					LOCATION				NESW Sec. 12 T7S R94W SHL: 1777 FSL 2302 FWL Latitude: 39.451082 Longitude: -107.836658		Elev.: K.B. 24.00 ft G.L. 5224.00 ft D.F. 23.00 ft		Permanent Datum: _____ Log Measured From: _____ Drilling Measured From: _____	Ground Level _____ Kelly Bushing _____ Kelly Bushing _____			API Serial No. 05-045-23441	Section 12	Township 7S	Range 94W
LOCATION																				
NESW Sec. 12 T7S R94W SHL: 1777 FSL 2302 FWL Latitude: 39.451082 Longitude: -107.836658		Elev.: K.B. 24.00 ft G.L. 5224.00 ft D.F. 23.00 ft																		
Permanent Datum: _____ Log Measured From: _____ Drilling Measured From: _____	Ground Level _____ Kelly Bushing _____ Kelly Bushing _____																			
API Serial No. 05-045-23441	Section 12	Township 7S	Range 94W																	
Elev.: 24.00 ft above Perm. Datum																				

[illegible]



Logging Date	26-Dec-2017				
Run Number	1				
Depth Driller	9866 ft				
Schlumberger Depth	9850 ft				
Bottom Log Interval	8430 ft				
Top Log Interval	1131 ft				
Casing Driller Size @ Depth	9.625 in		@	1137 ft	
Casing Schlumberger	1137 ft				
Bit Size	8.750 in				
Type Fluid In Hole	WBM				
Density	Viscosity	9.35 lbm/gal	45 s		
Fluid Loss	PH	8.8 cm3	9.3		
Source Of Sample	Sample				
RM @ Measured Temperature	1.365 ohm.m		@	75 degF	
RMF @ Measured Temperature	1.024 ohm.m		@	75 degF	
RMC @ Measured Temperature	2.048 ohm.m		@	75 degF	
Source RMF	RMC	Calculated	Calculated		
RM @ MRT	RMF @ MRT	0.572 @ 188	0.430 @ 188	@	@
Maximum Recorded Temperatures	188 degF				
Circulation Stopped	Time	26-Dec-2017		23:30	
Logger On Bottom	Time	26-Dec-2017		24:00	
Unit Number	Location	9108	Fort Morgan		
Recorded By	Stephen Tang				
Witnessed By	Nathan Burr				

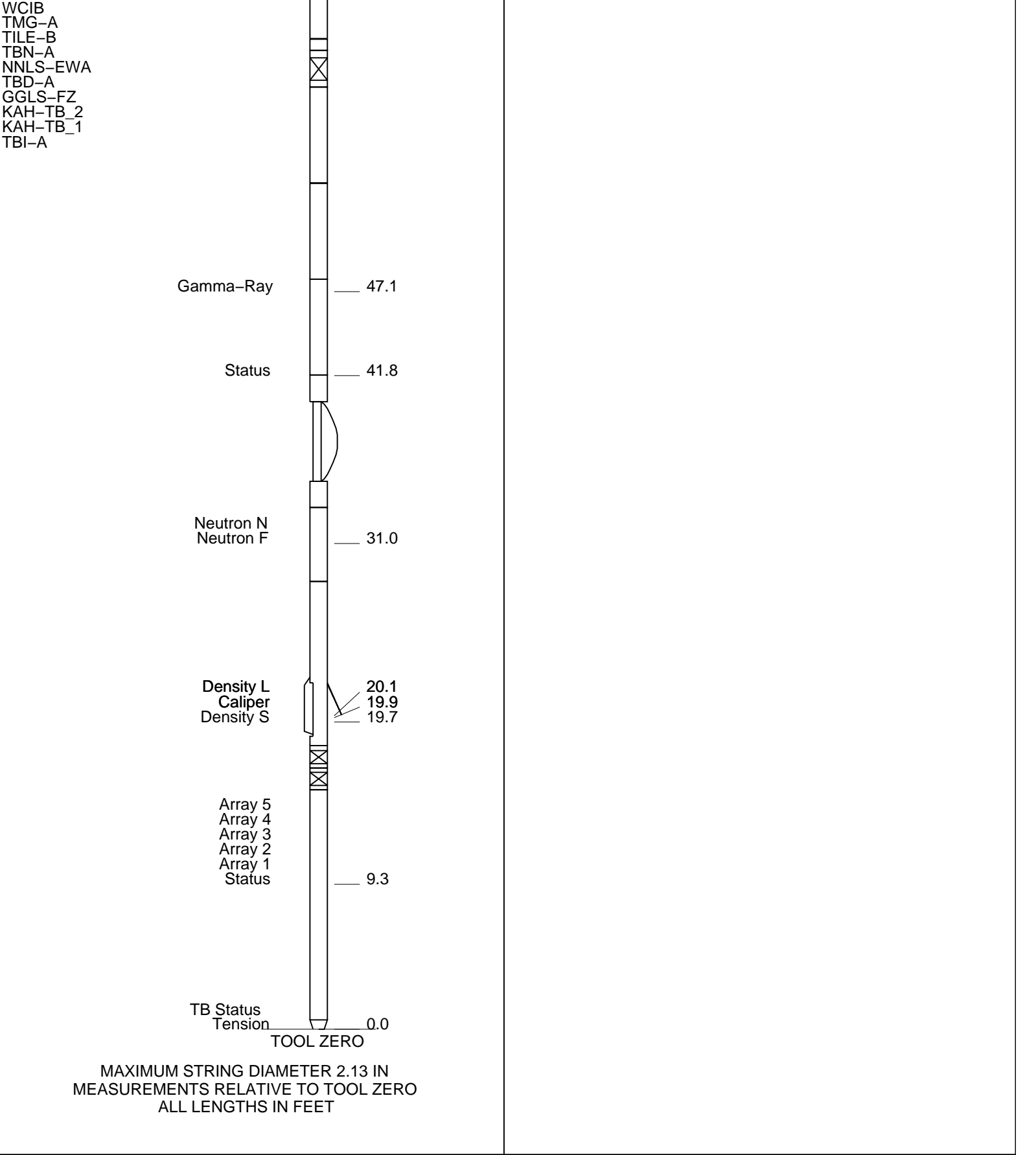
[illegible]

<p style="text-align: center;">DISCLAIMER</p> <p>THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.</p>
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[illegible]

	EQUIPMENT	DESCRIPTION	
RUN 1			RUN 2

TBT-A	CCL		73.0	73.7
CCL				
B DOT-B				
THOT				
T10_1				
SAH-TB				
TBAT1	Hang-Off		66.6	
TBAT2				



Schlumberger

5" Main Pass

MAXIS Field Log

Company: TEP ROCKY MOUNTAIN LLC Well: SR 513-12

Input DLIS Files

DEFAULT ThruBit_005PUP FN:4 PRODUCER 27-Dec-2017 14:37 9849.9 FT 202.4 FT

Output DLIS Files

DEFAULT ThruBit_006PUP FN:5 PRODUCER 27-Dec-2017 14:44 9850.0 FT 202.5 FT

Integrated Hole/Cement Volume Summary

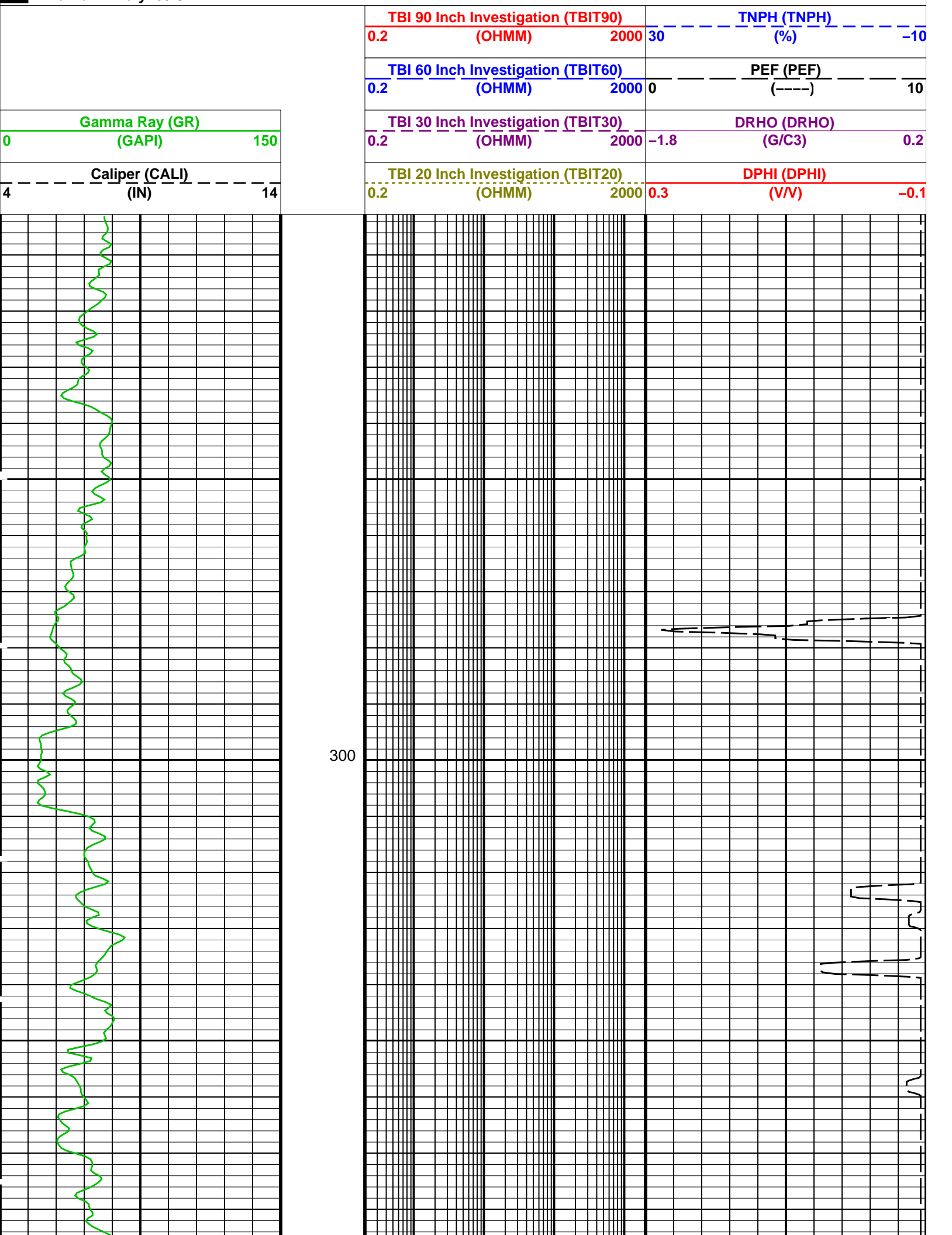
Hole Volume = 2132.61 F3
Cement Volume = 1067.53 F3 (assuming 4.50 IN casing O.D.)
Computed from 9850.0 FT to 202.5 FT using data channel(s) CALI

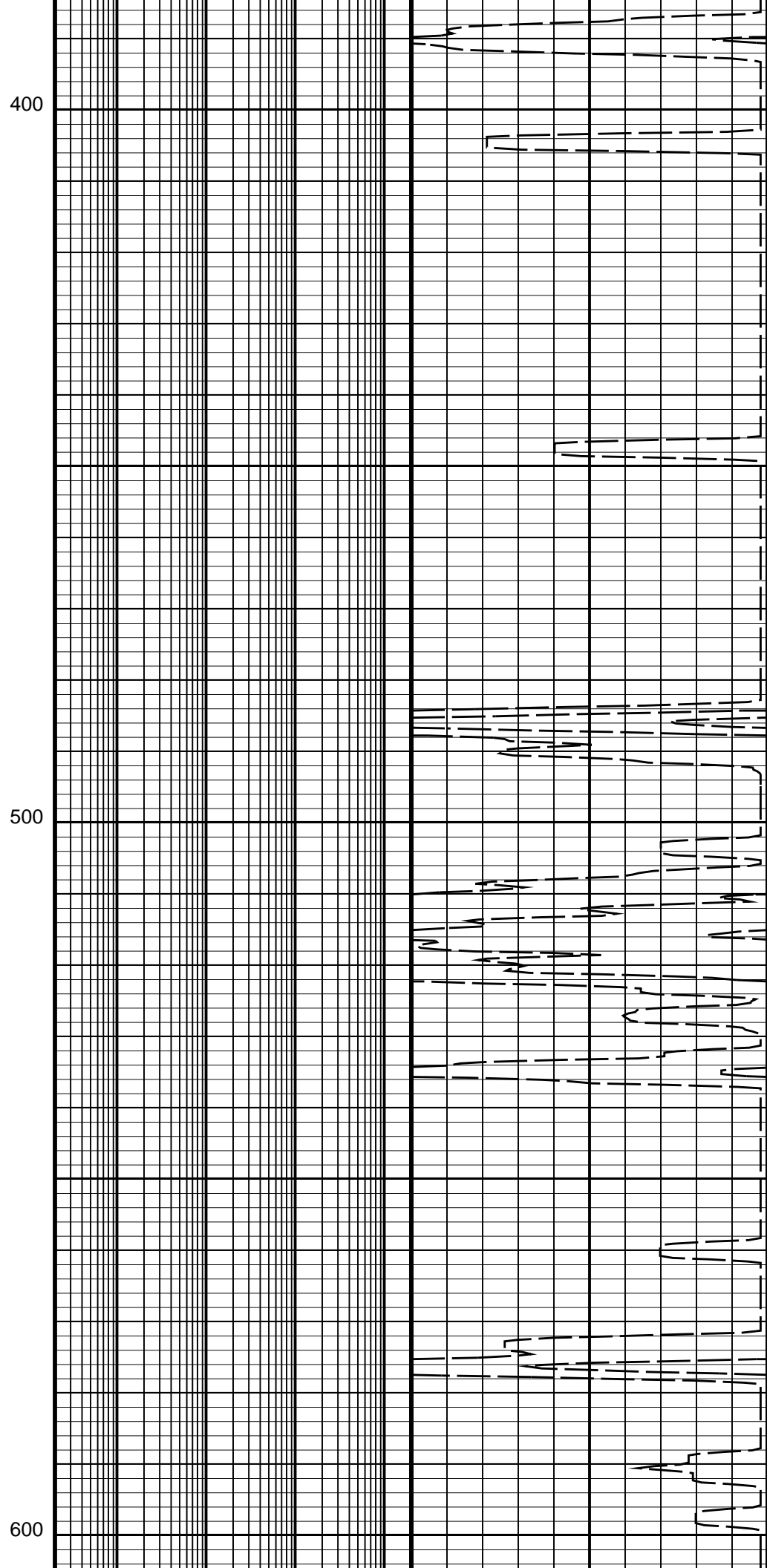
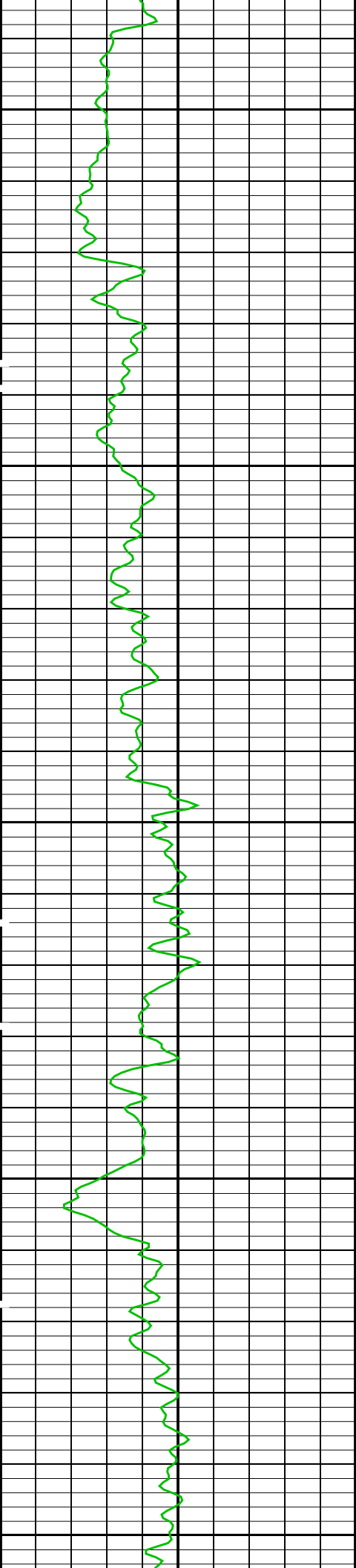
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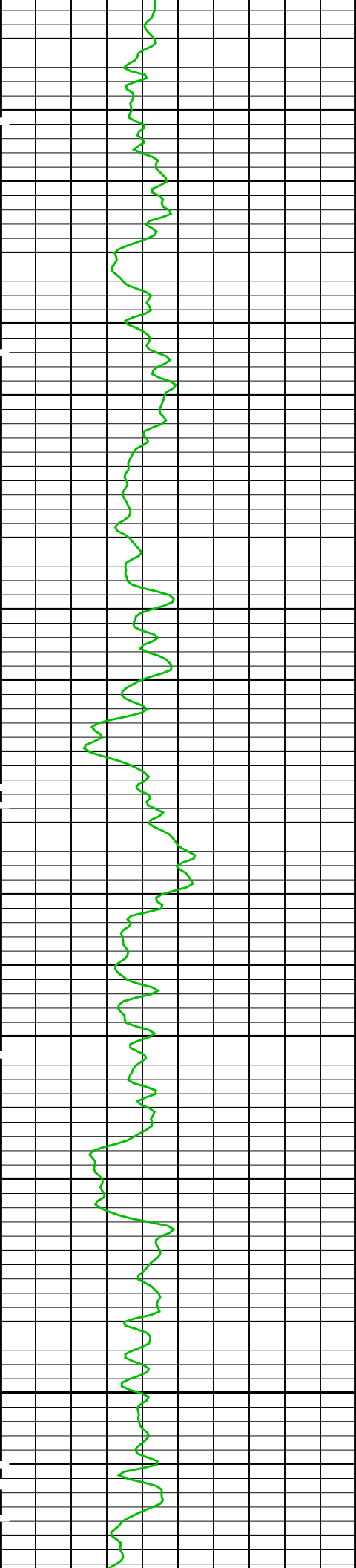
TBT-A SRPC-5318-Thrubit-SP3.4

PIP SUMMARY

- Integrated Cement Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Hole Volume Minor Pip Every 10 F3

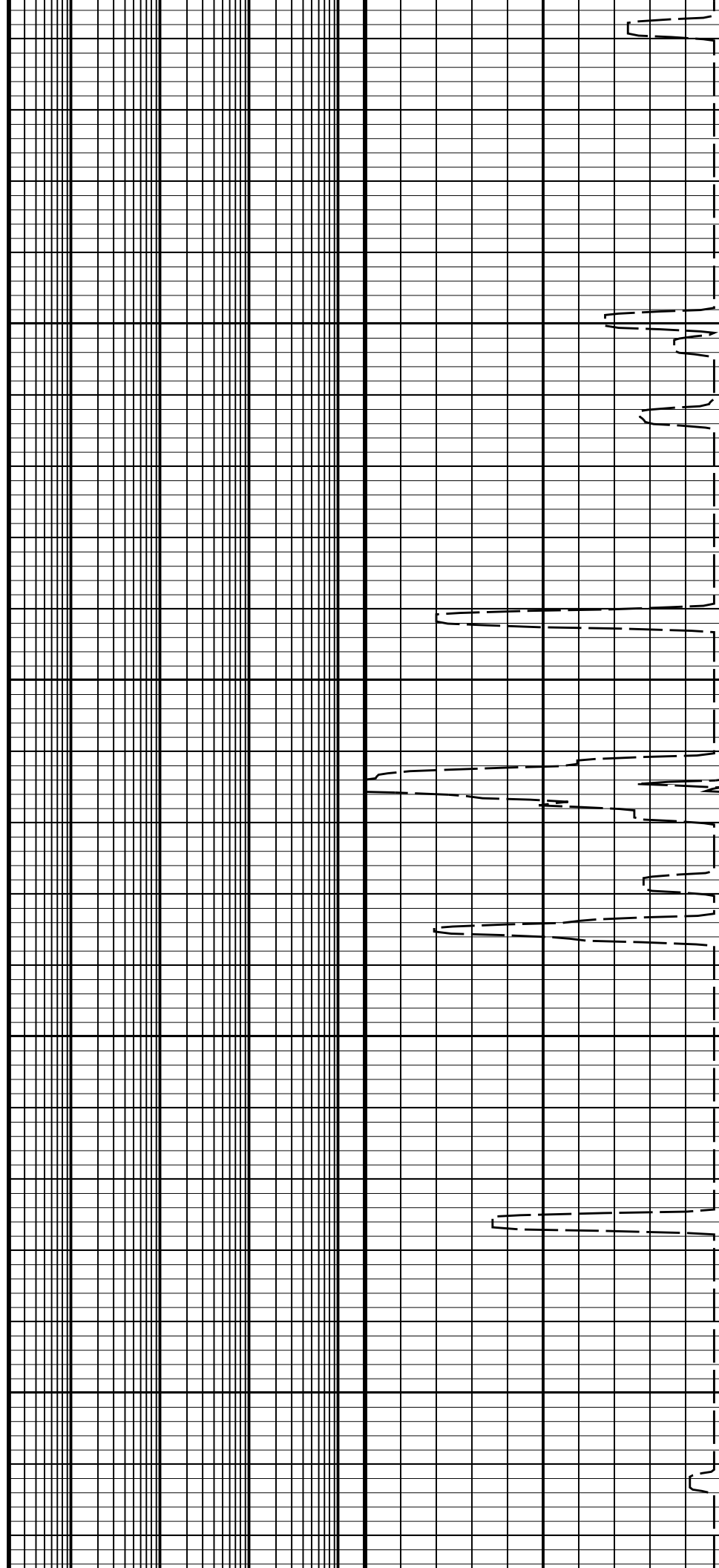


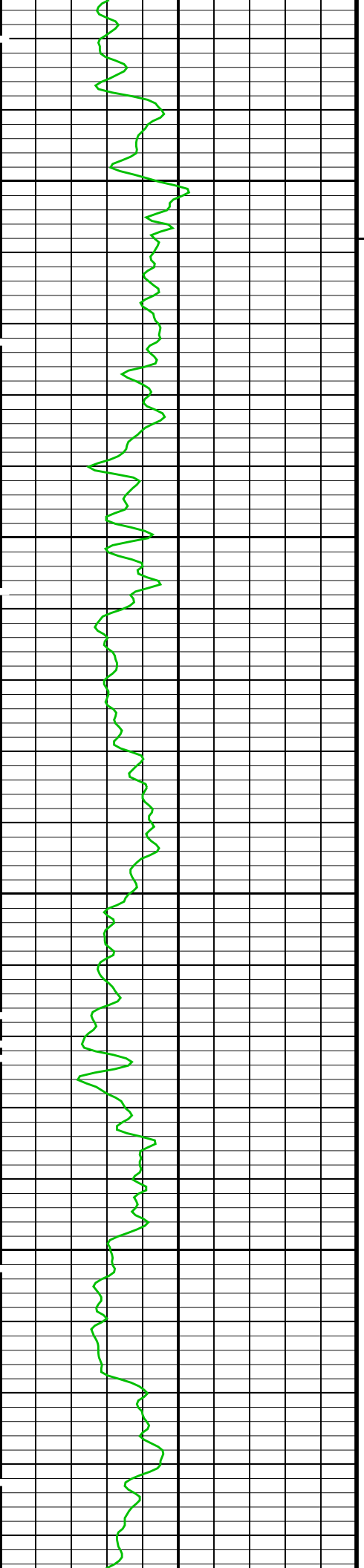




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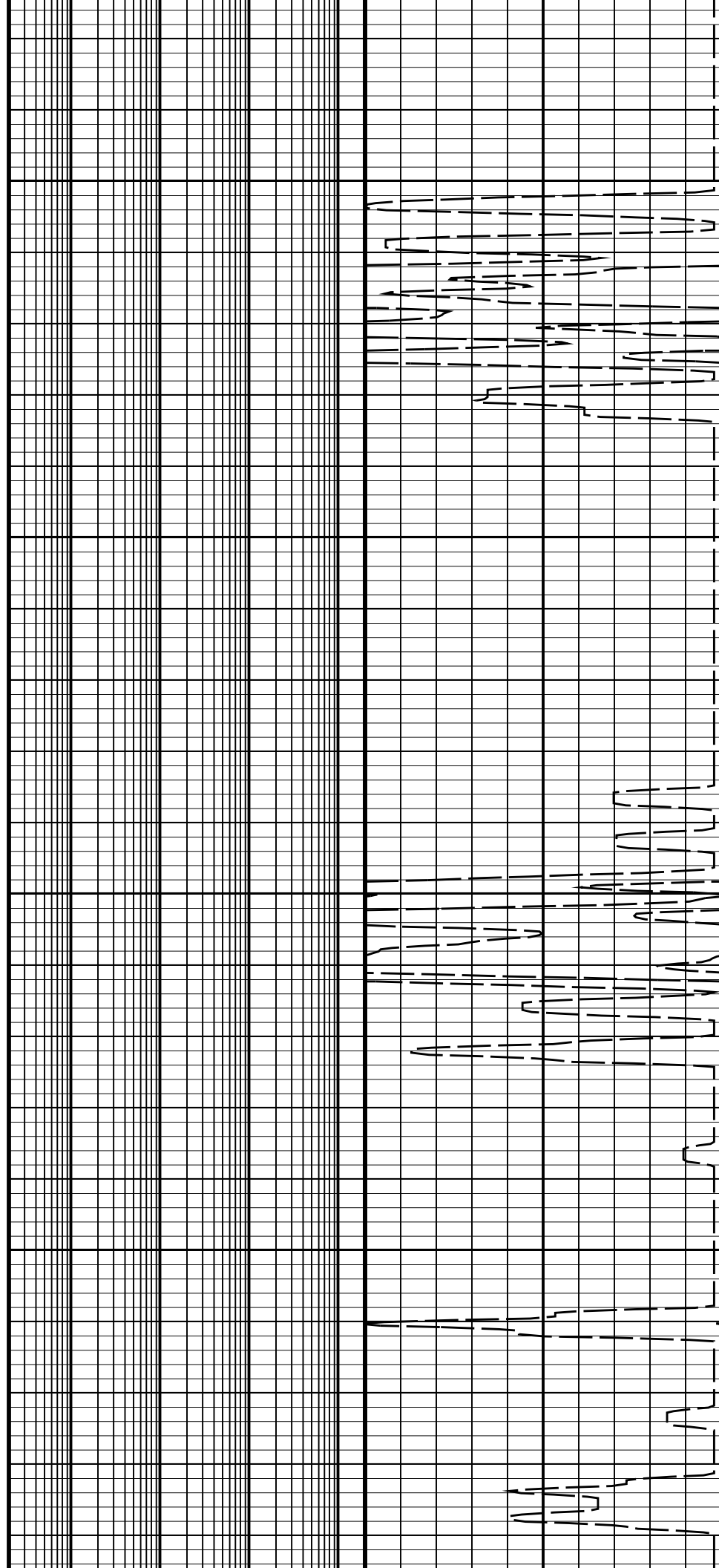
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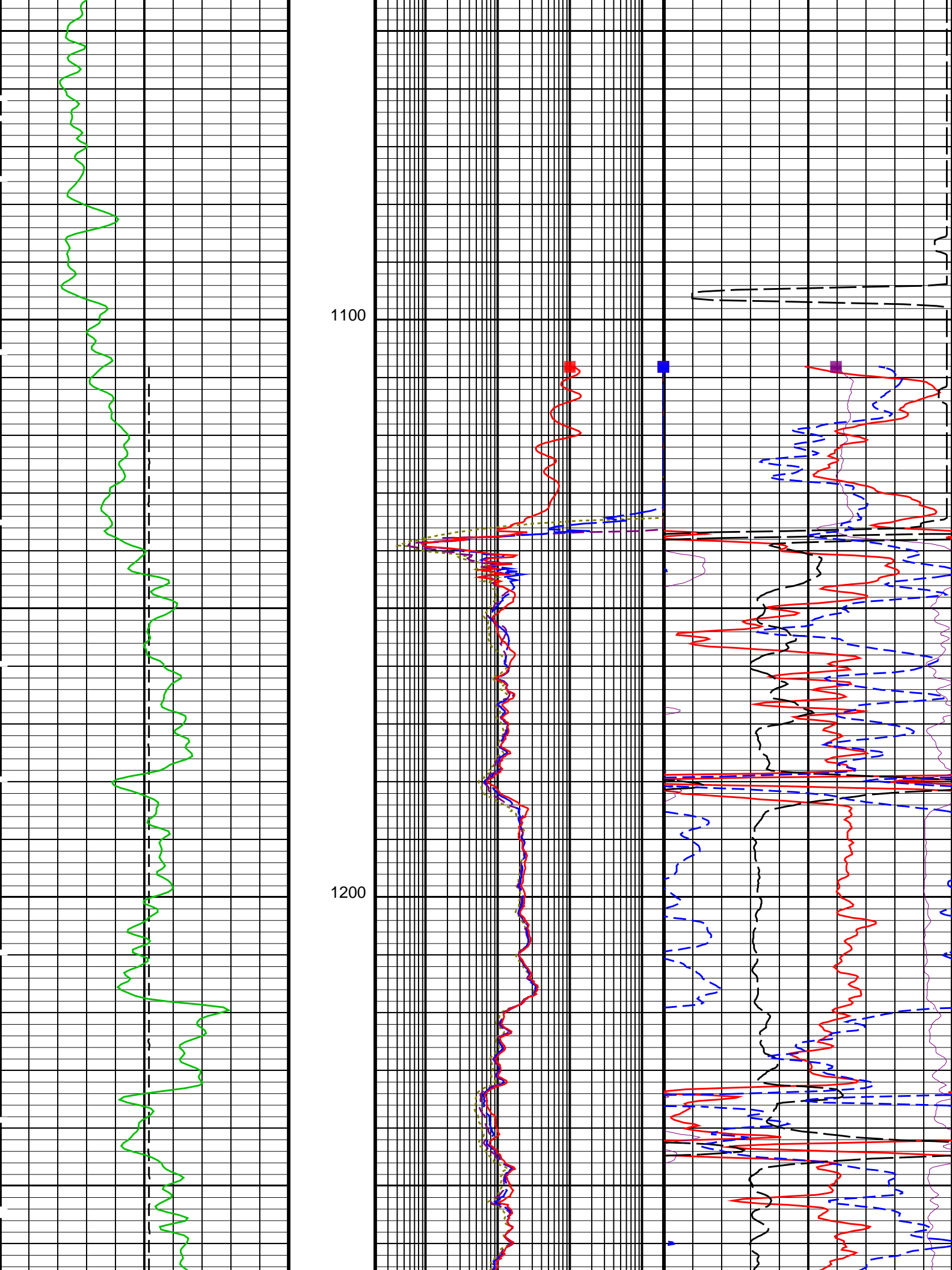


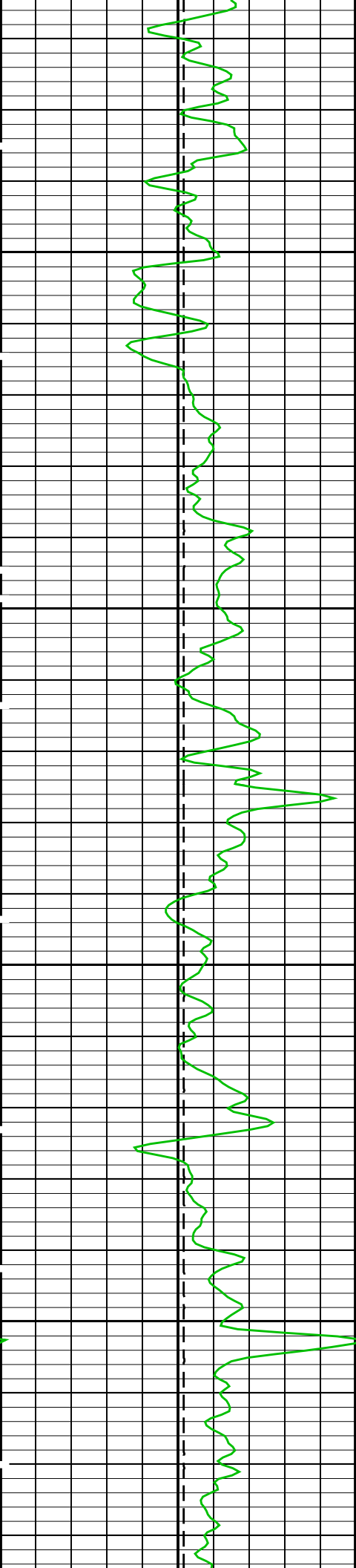


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1000

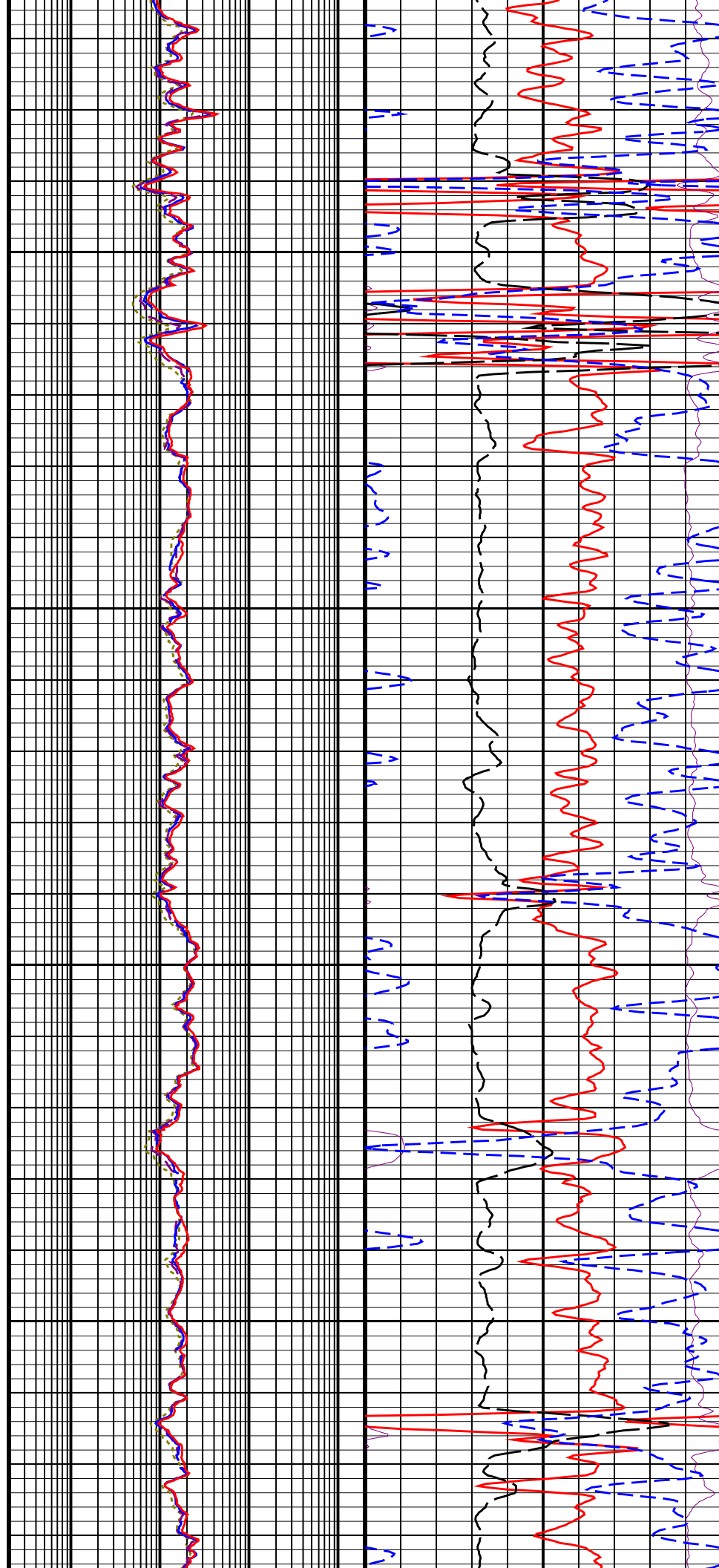


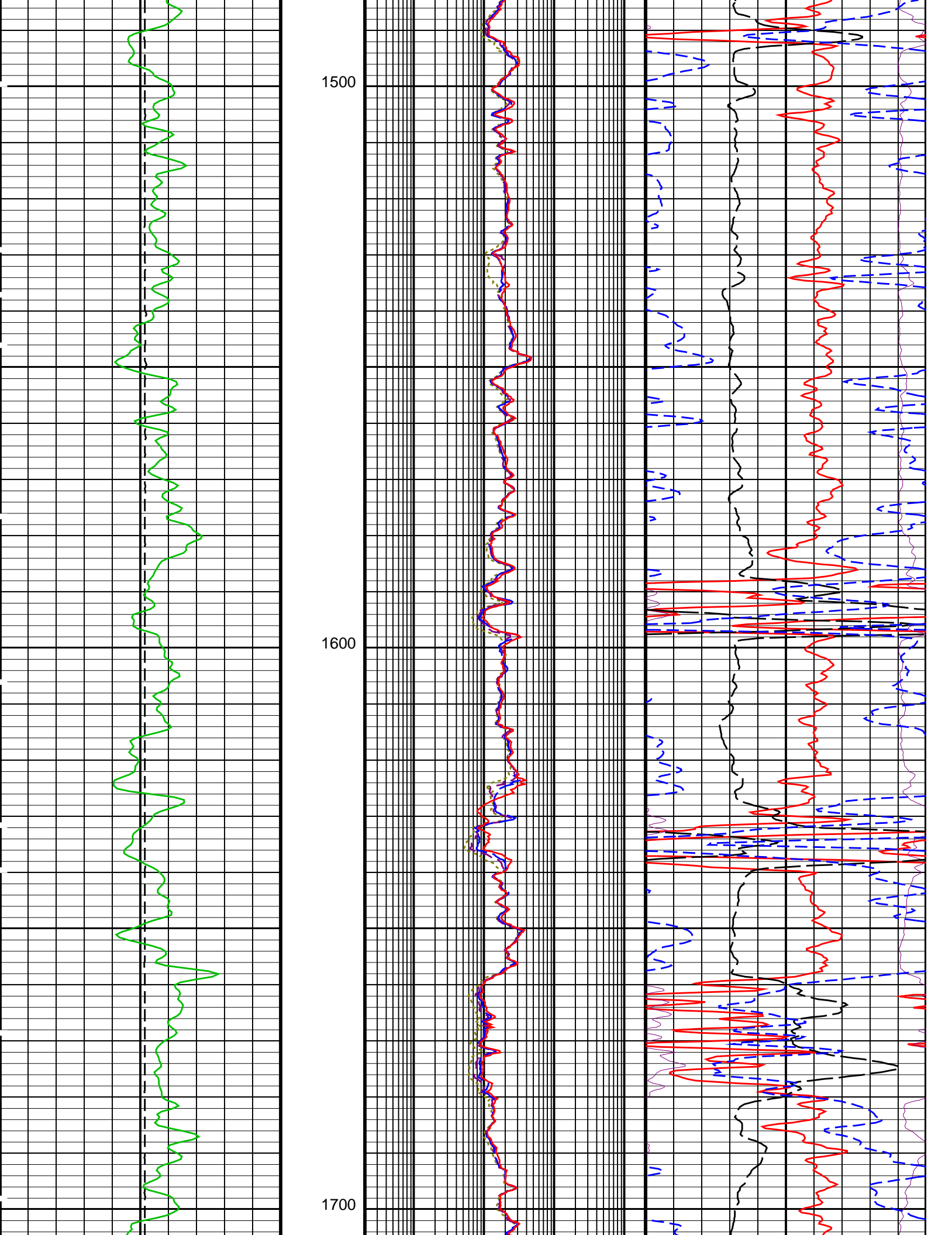


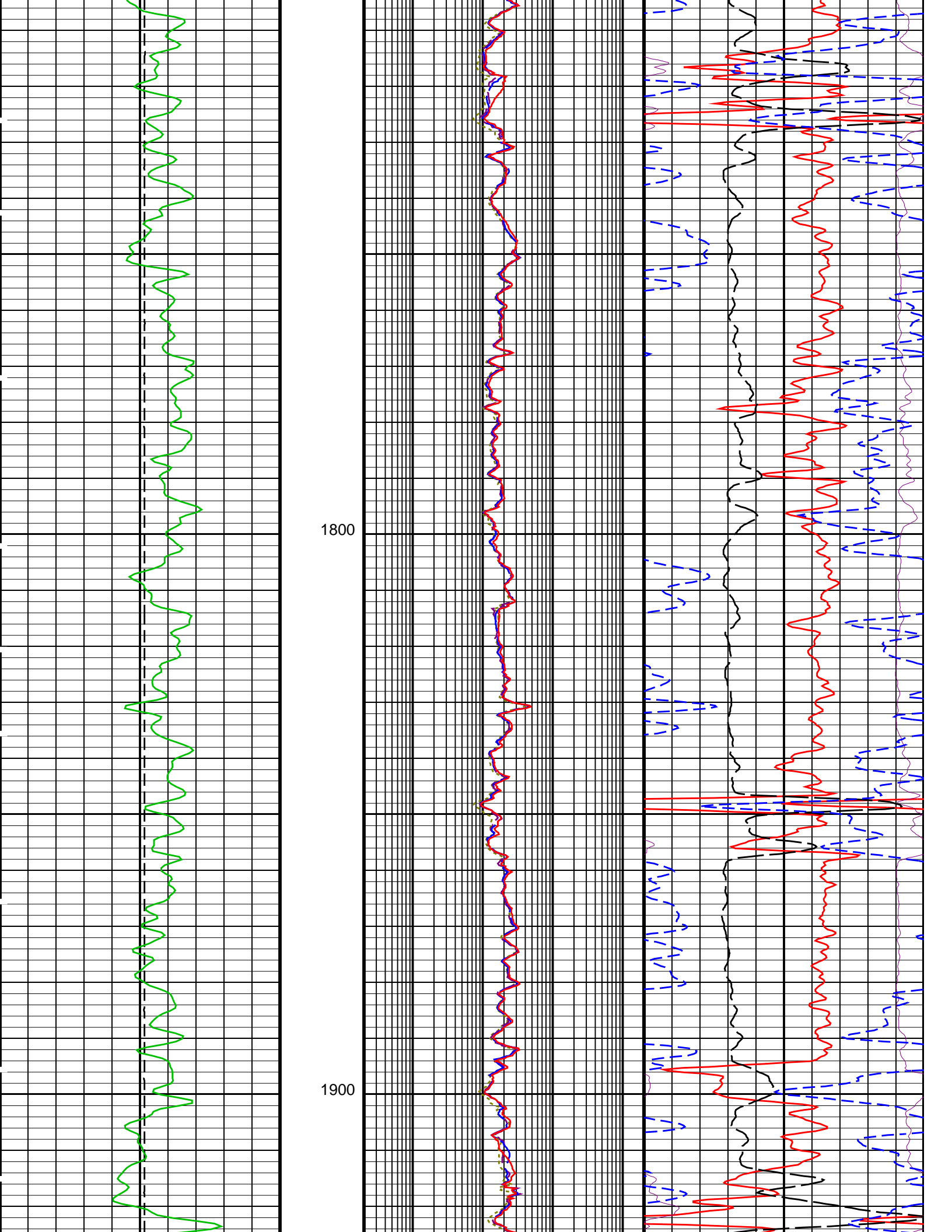


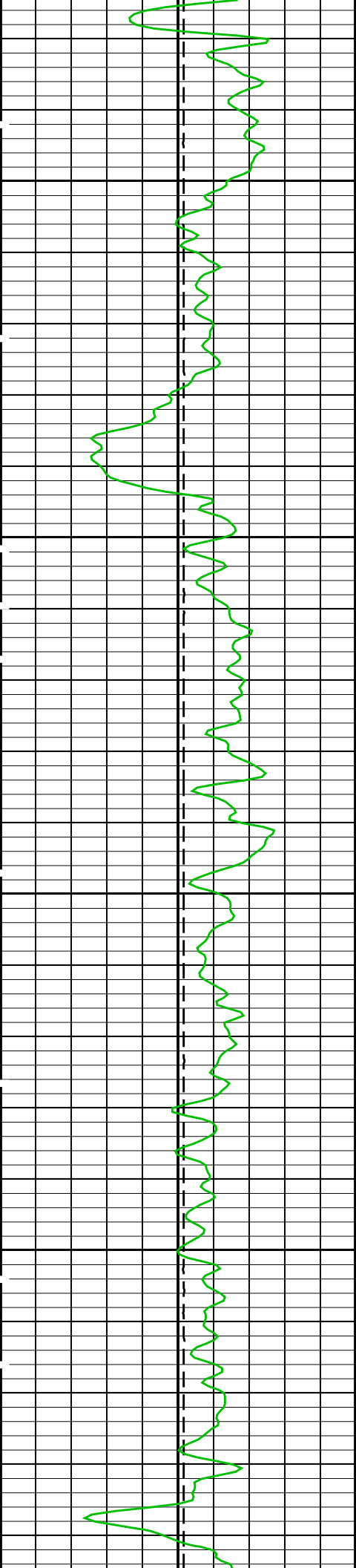
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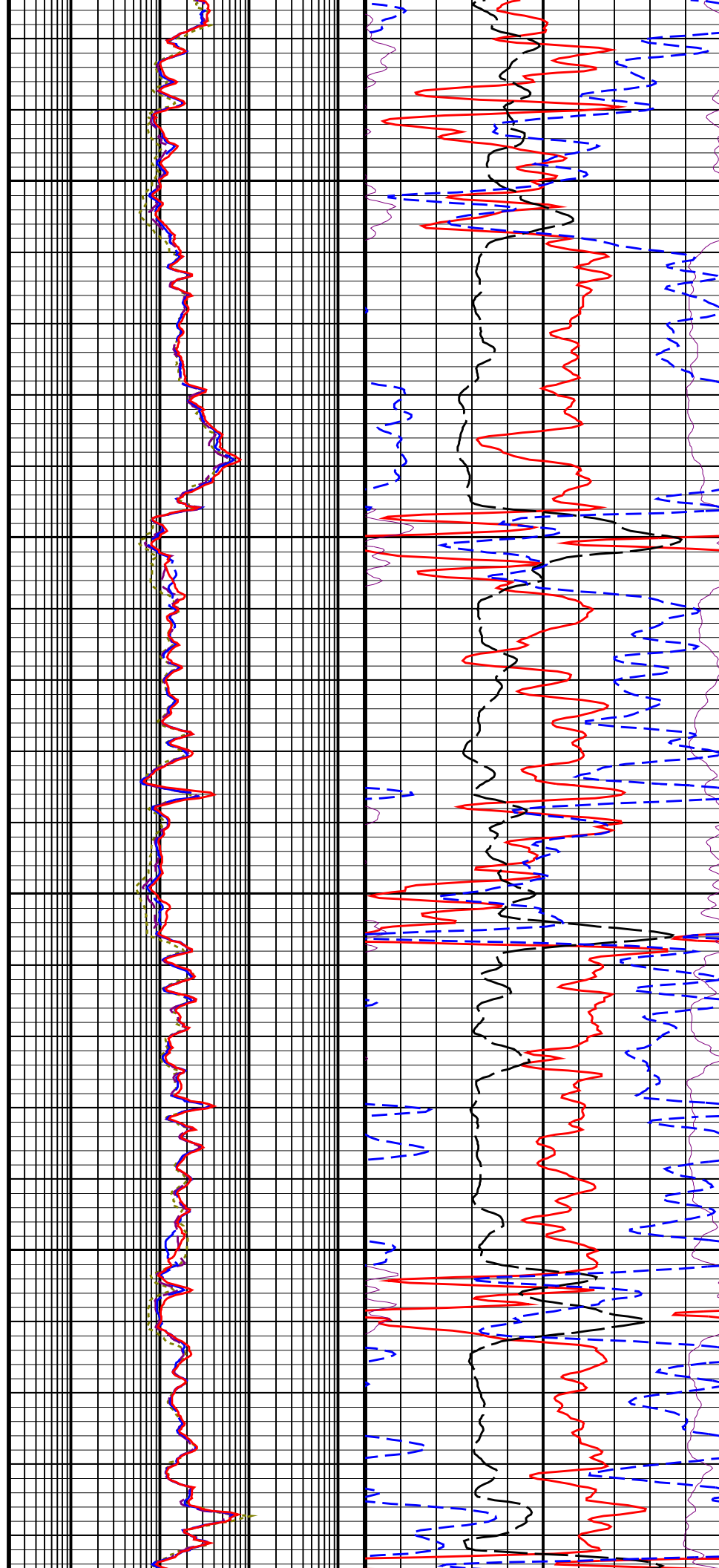


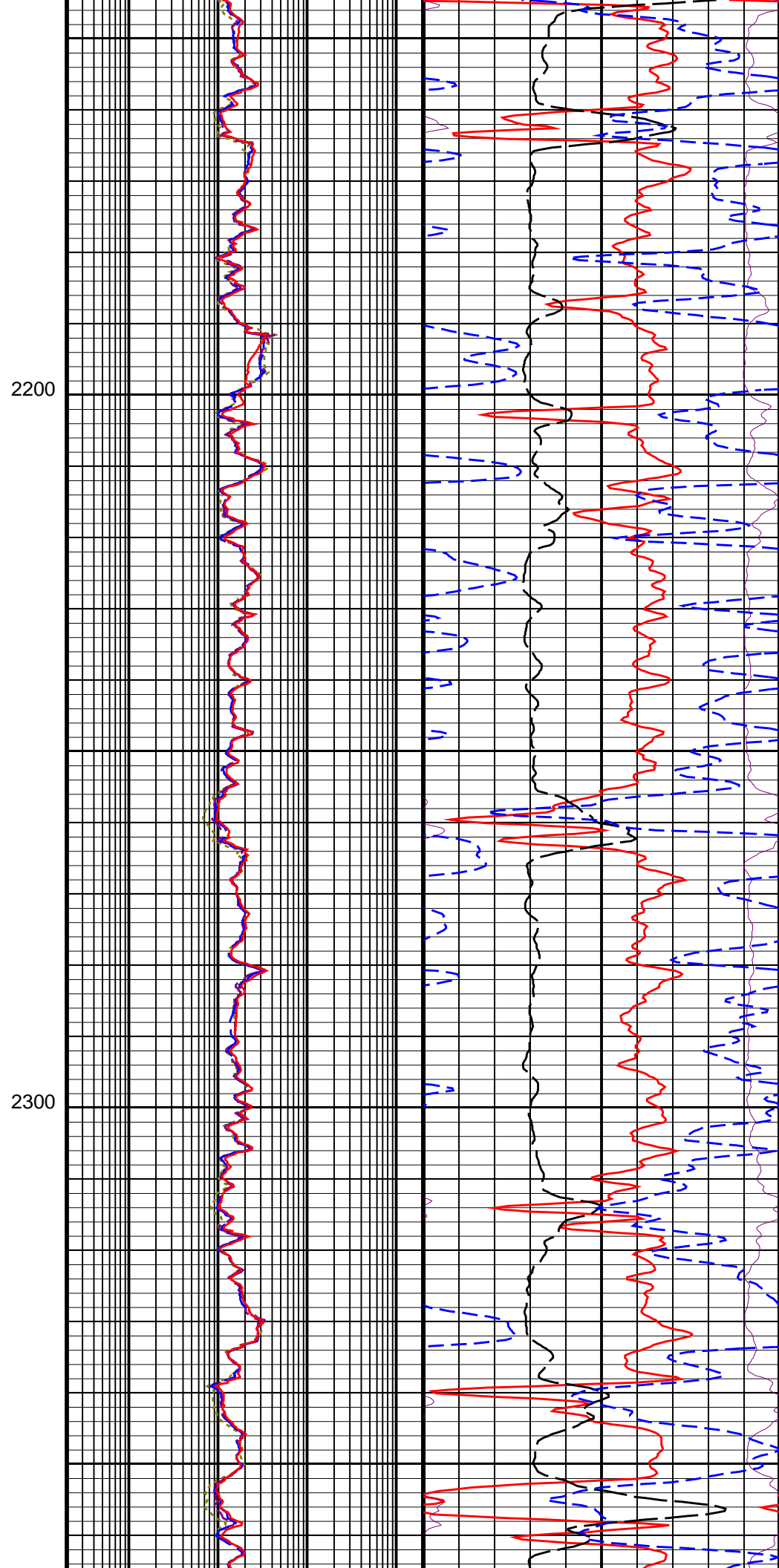
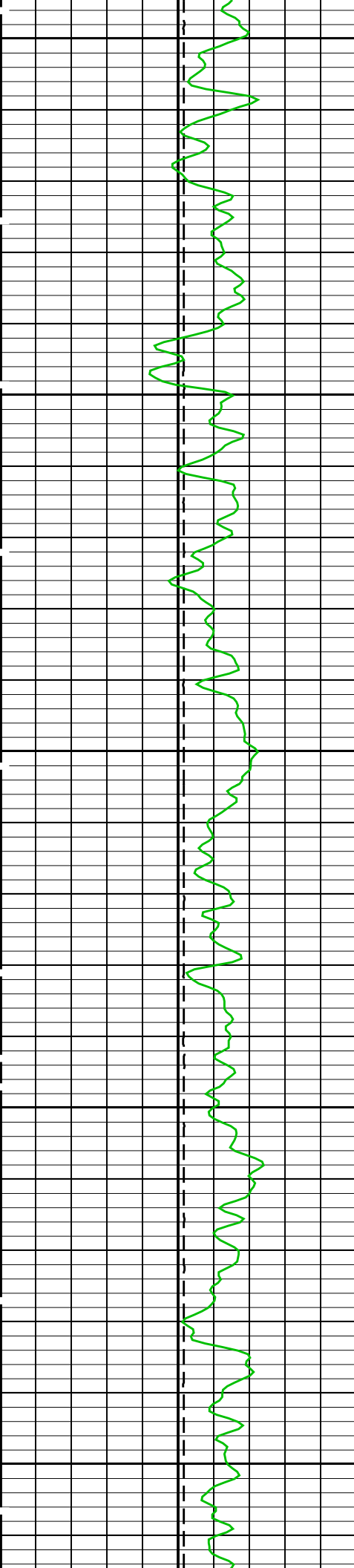


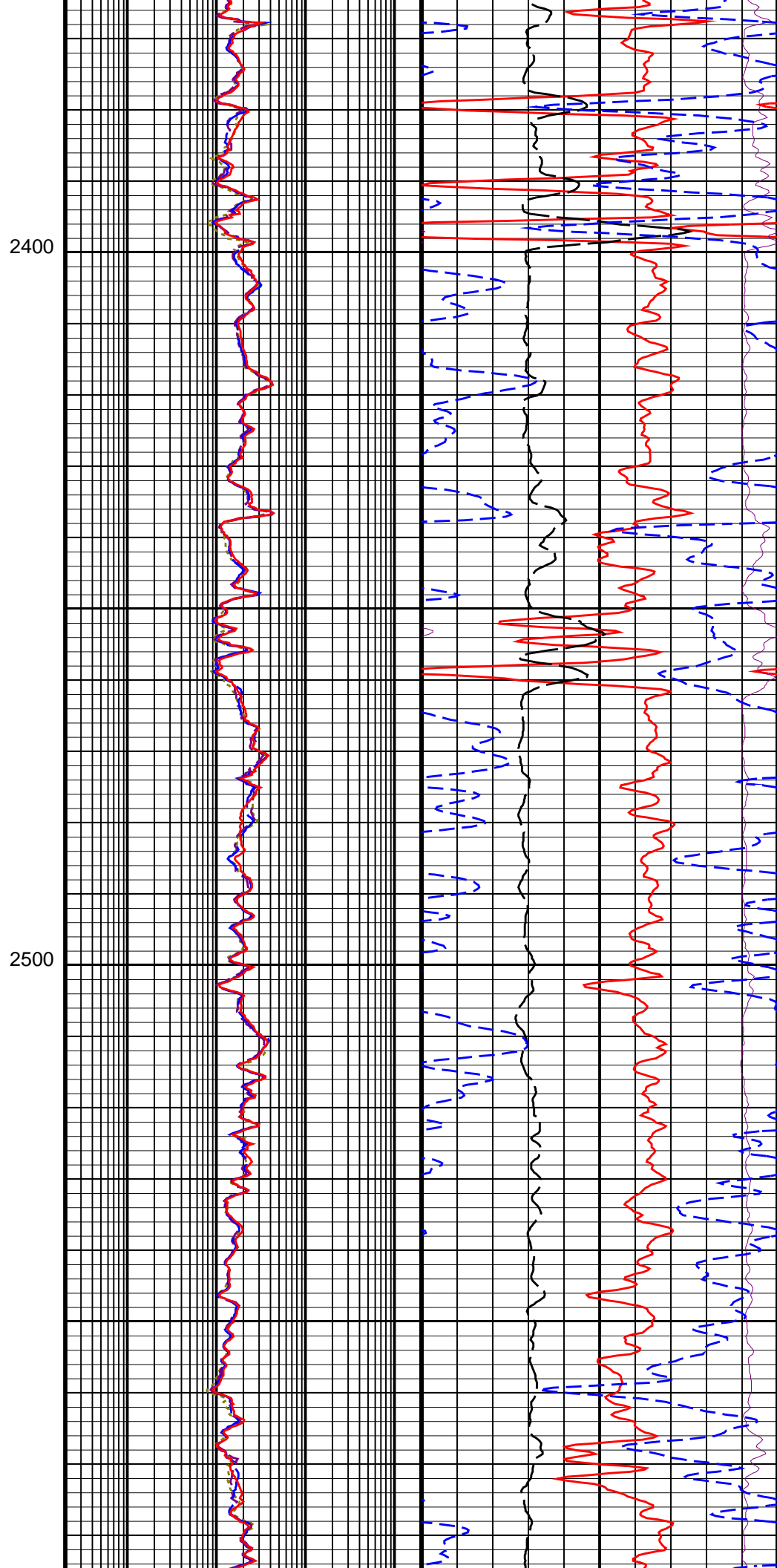
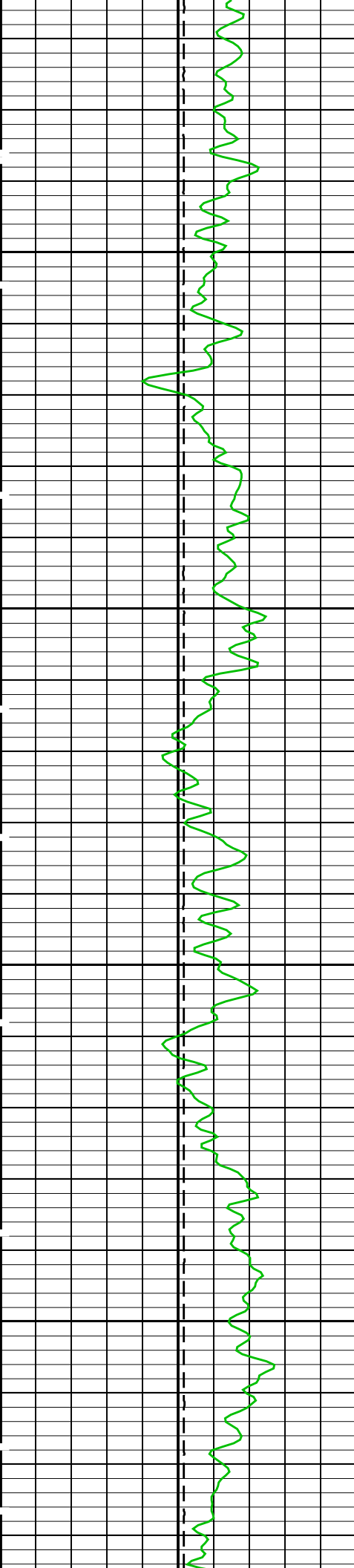


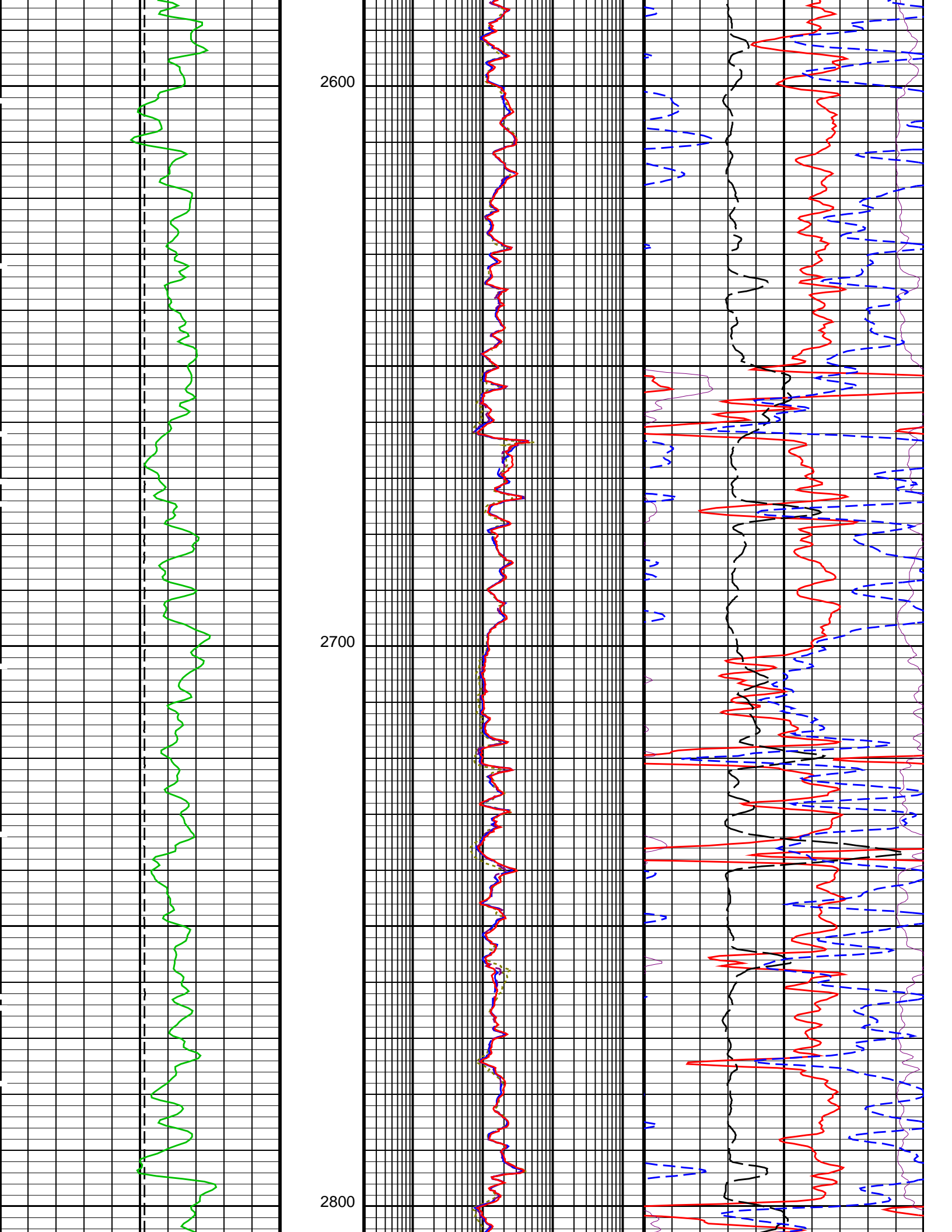
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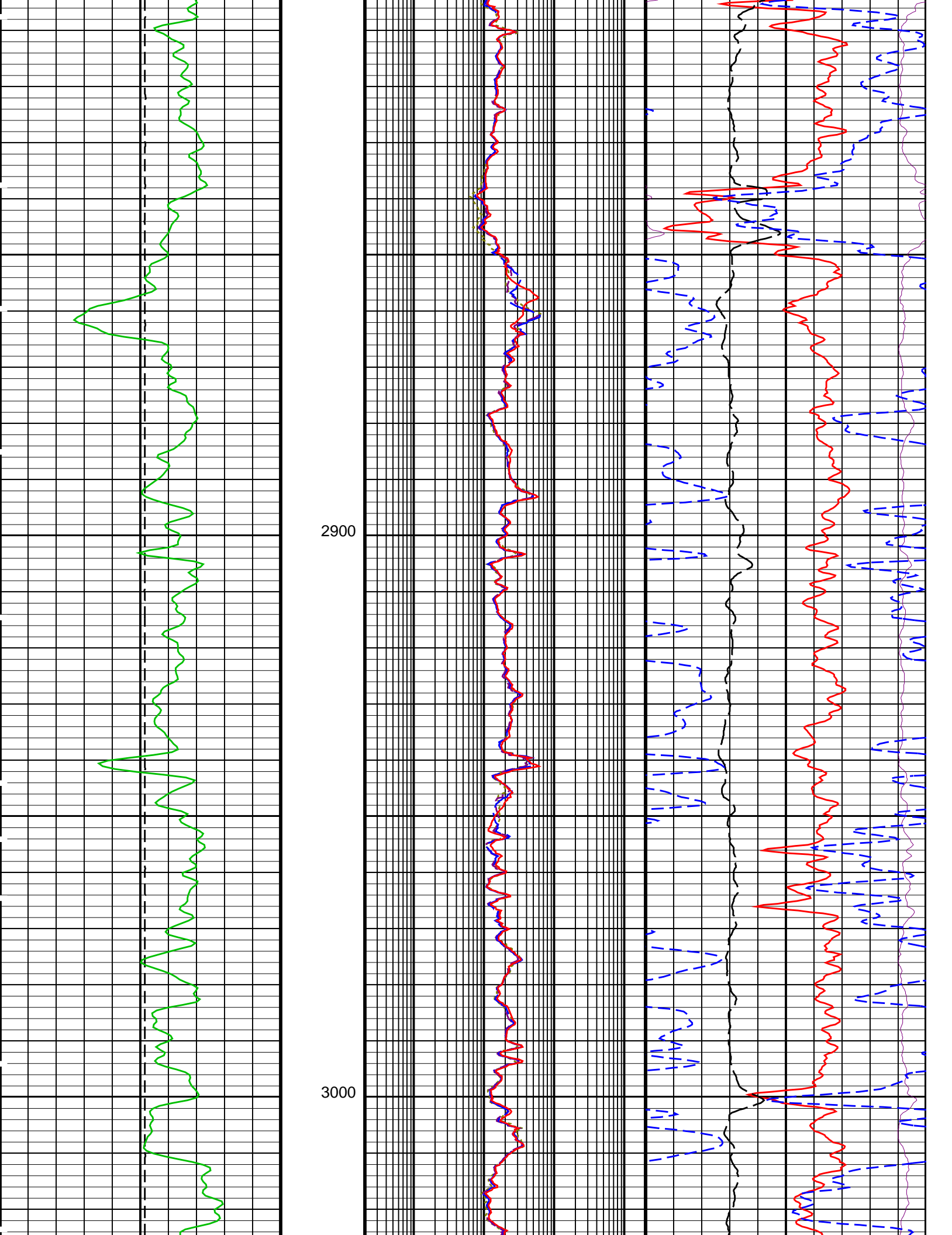
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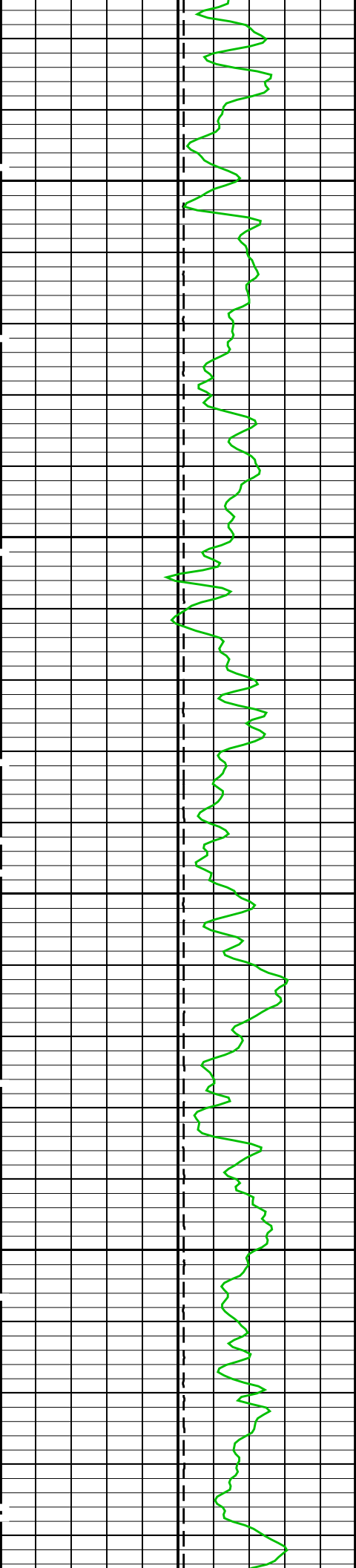






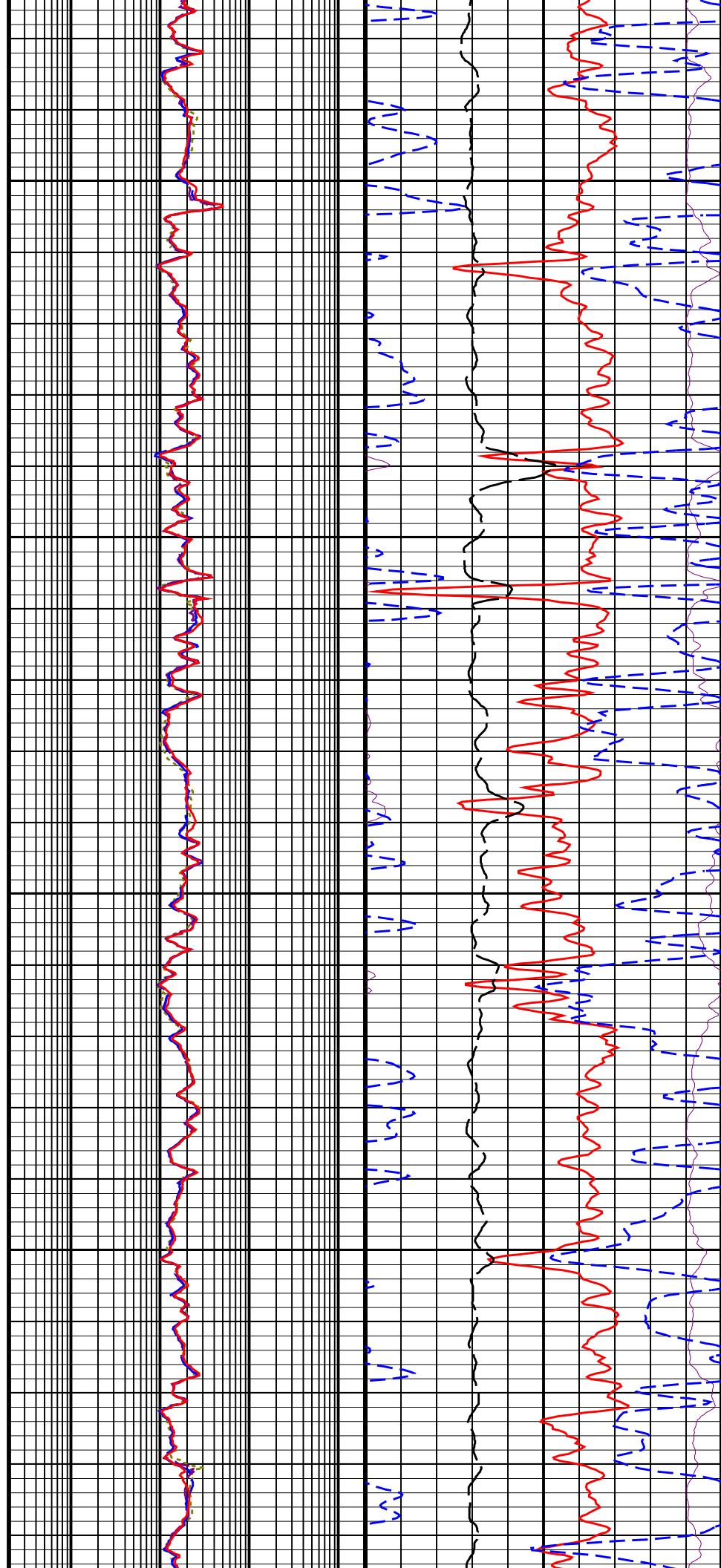


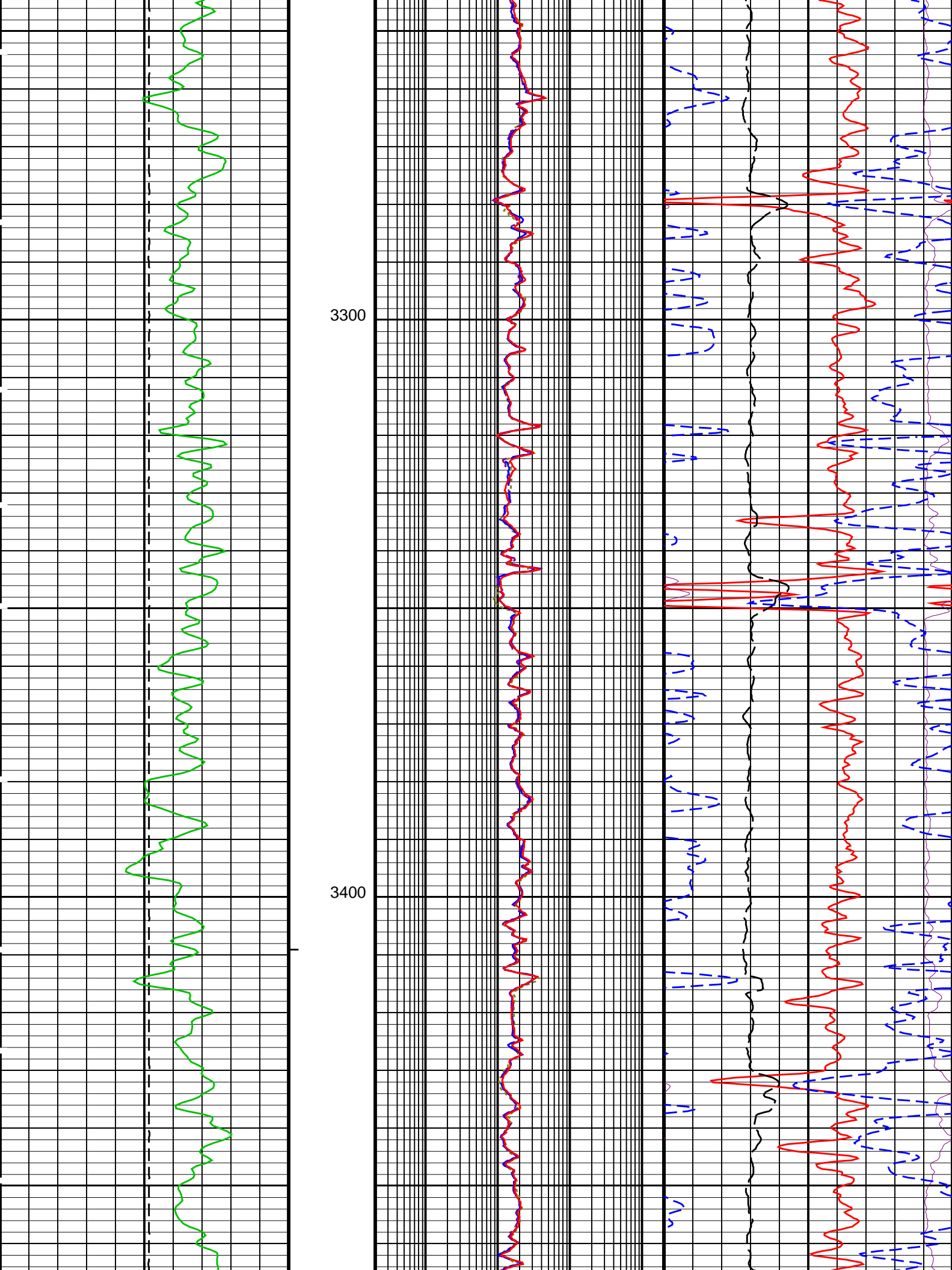


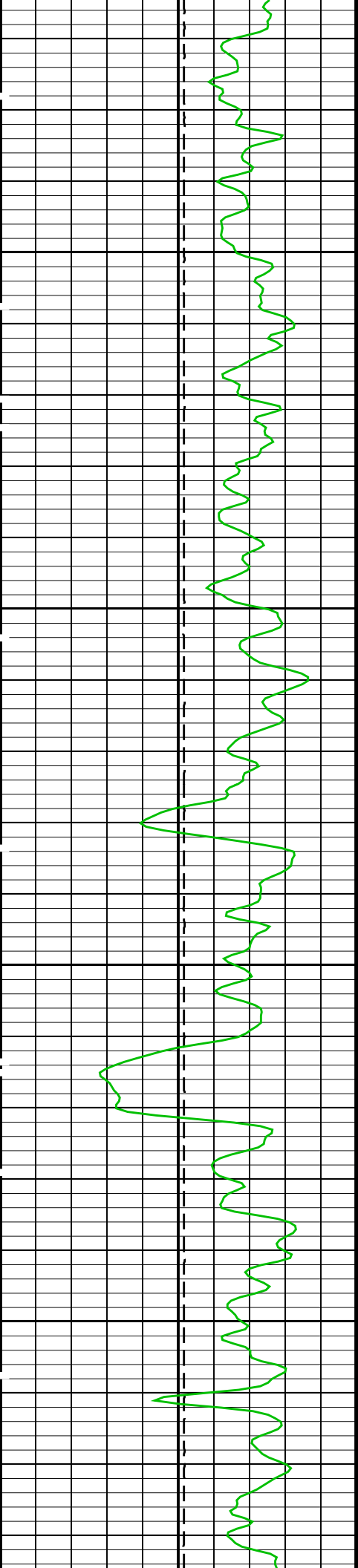


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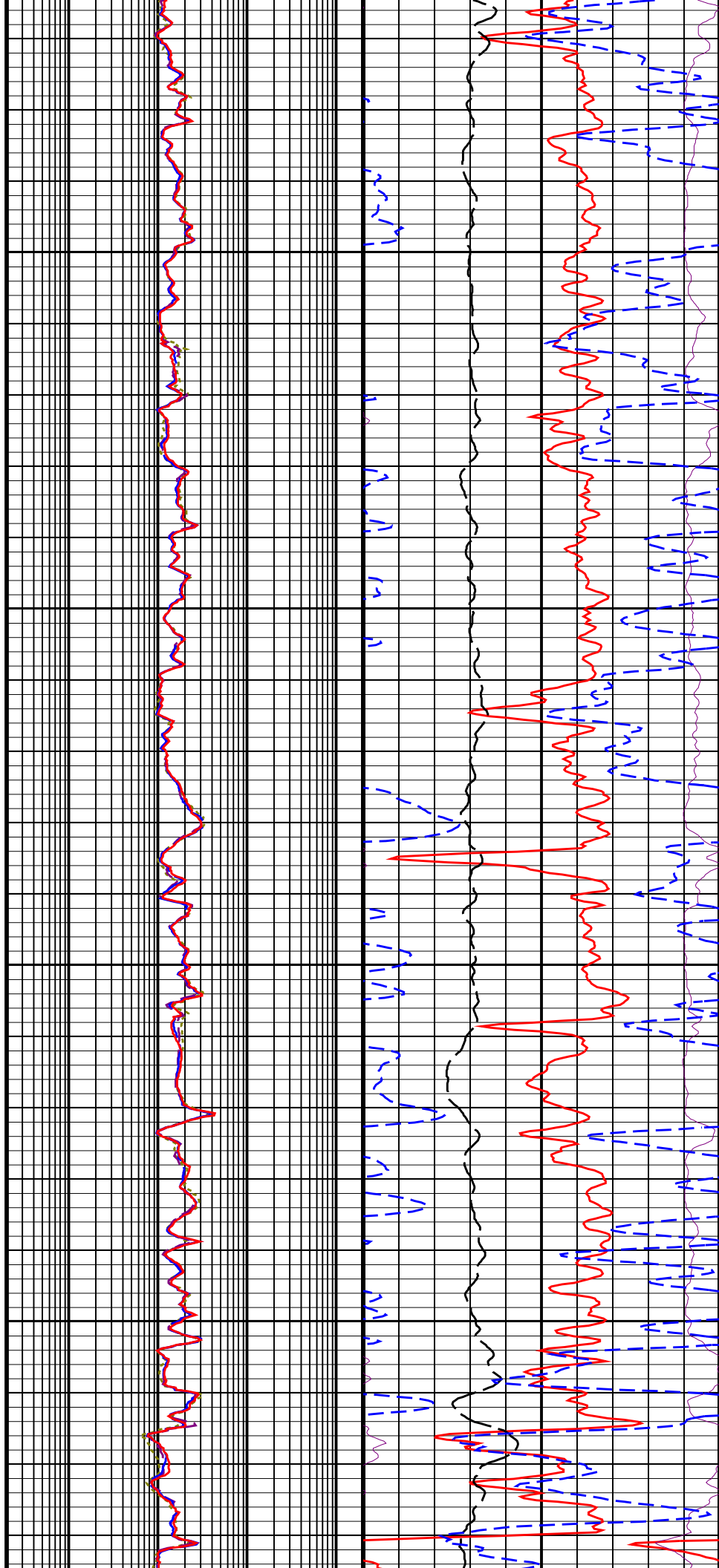


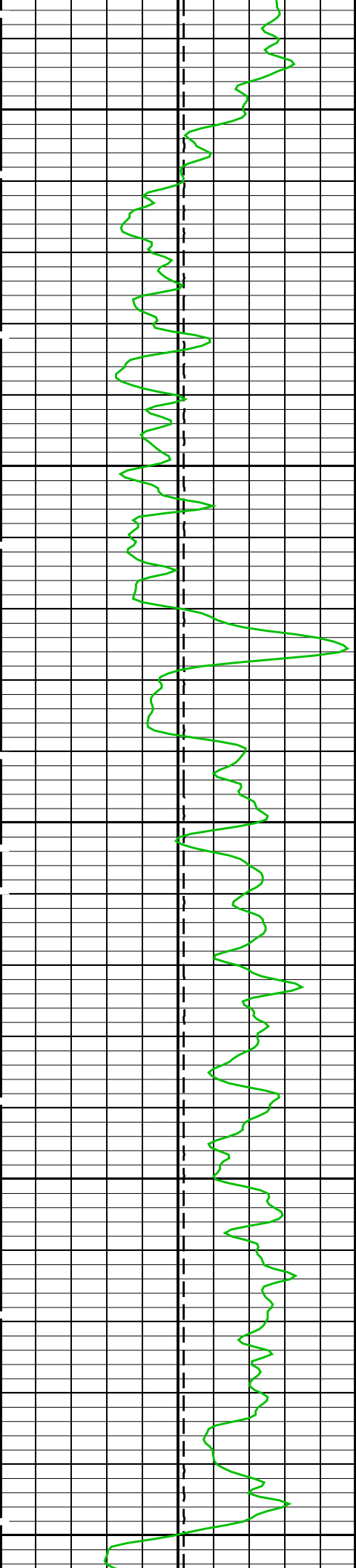




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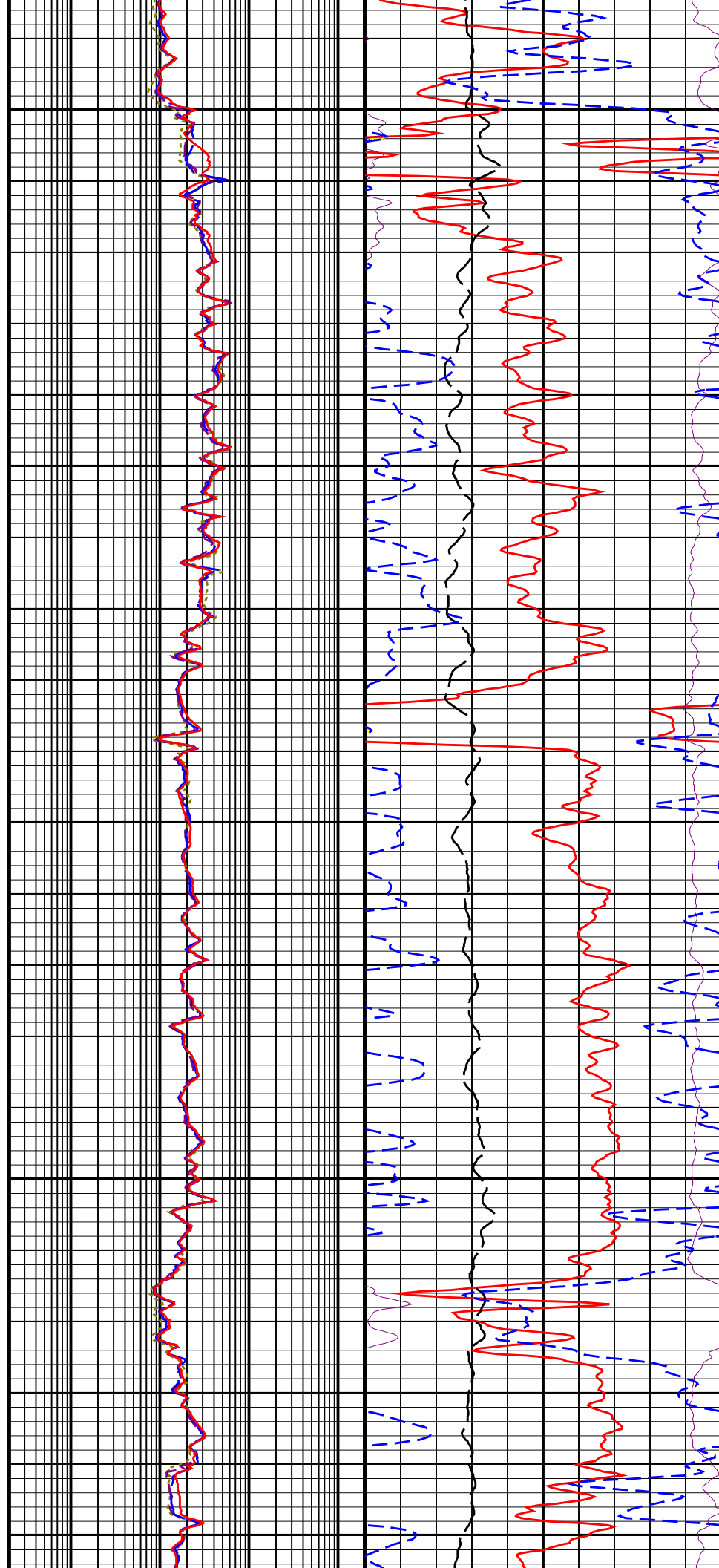


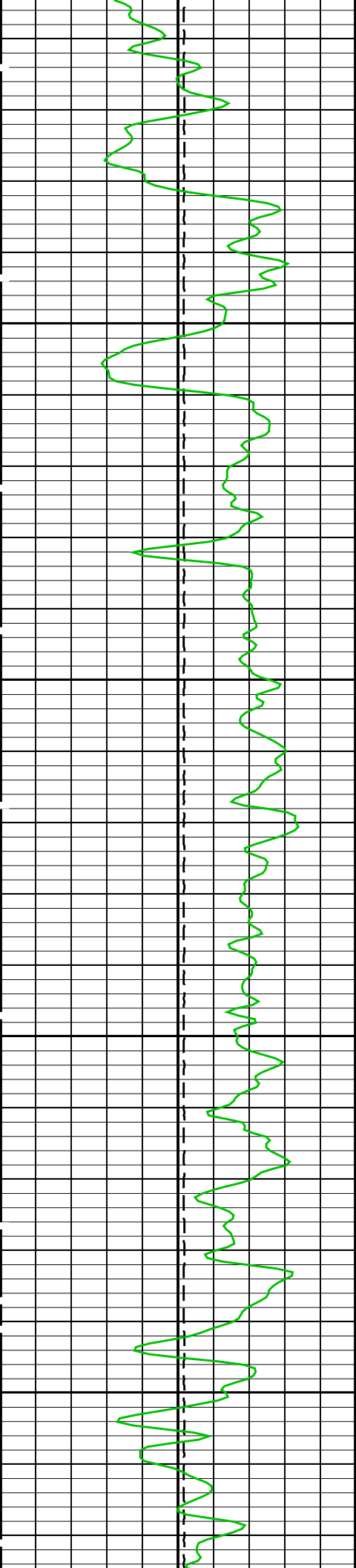


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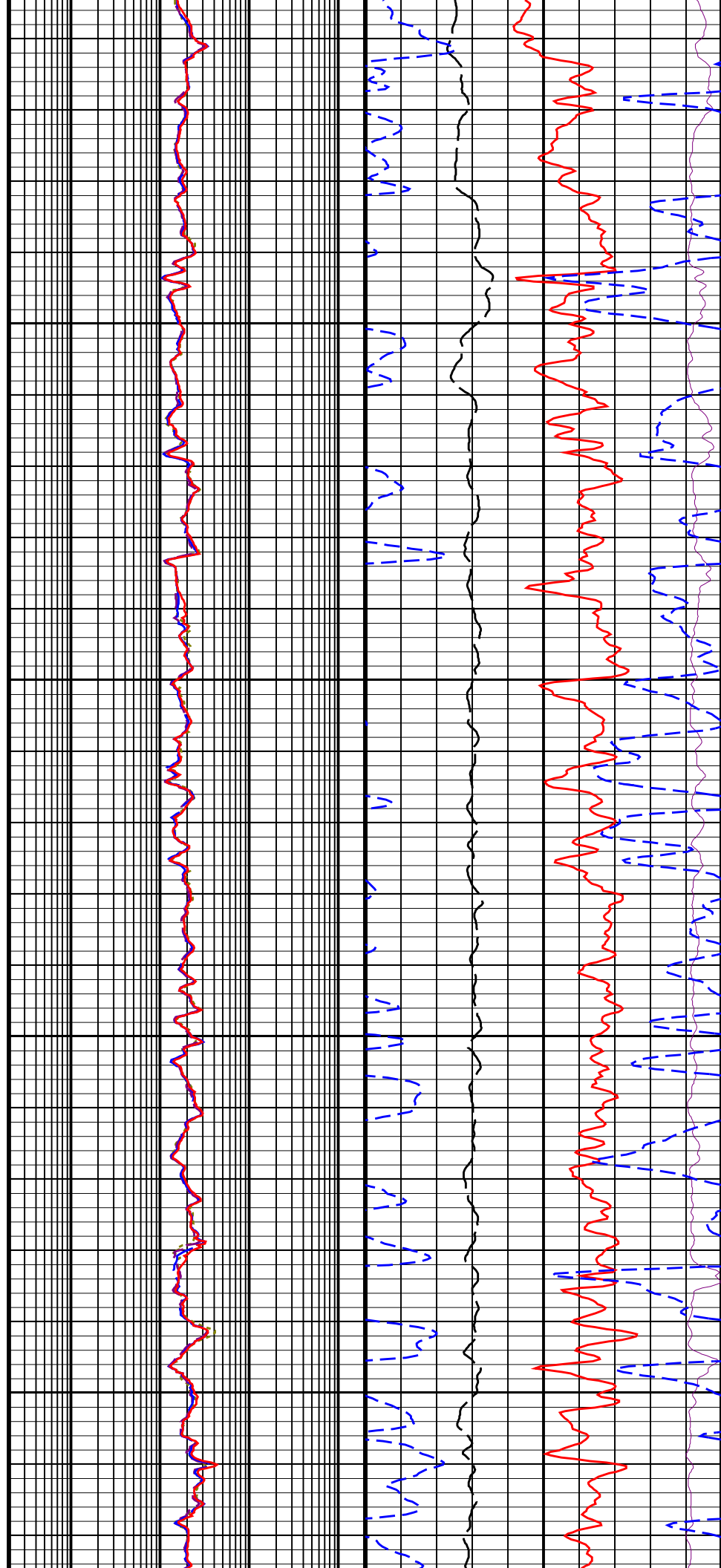
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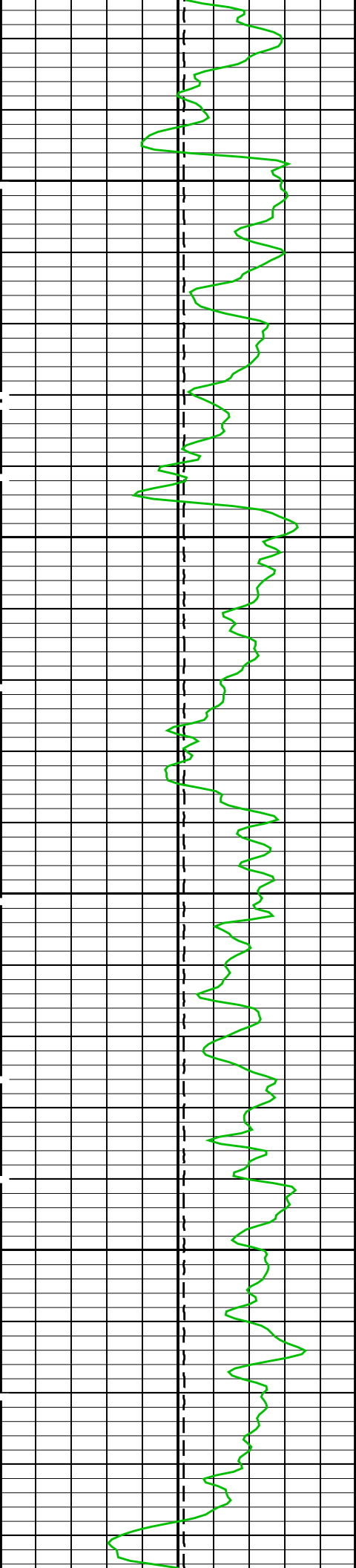




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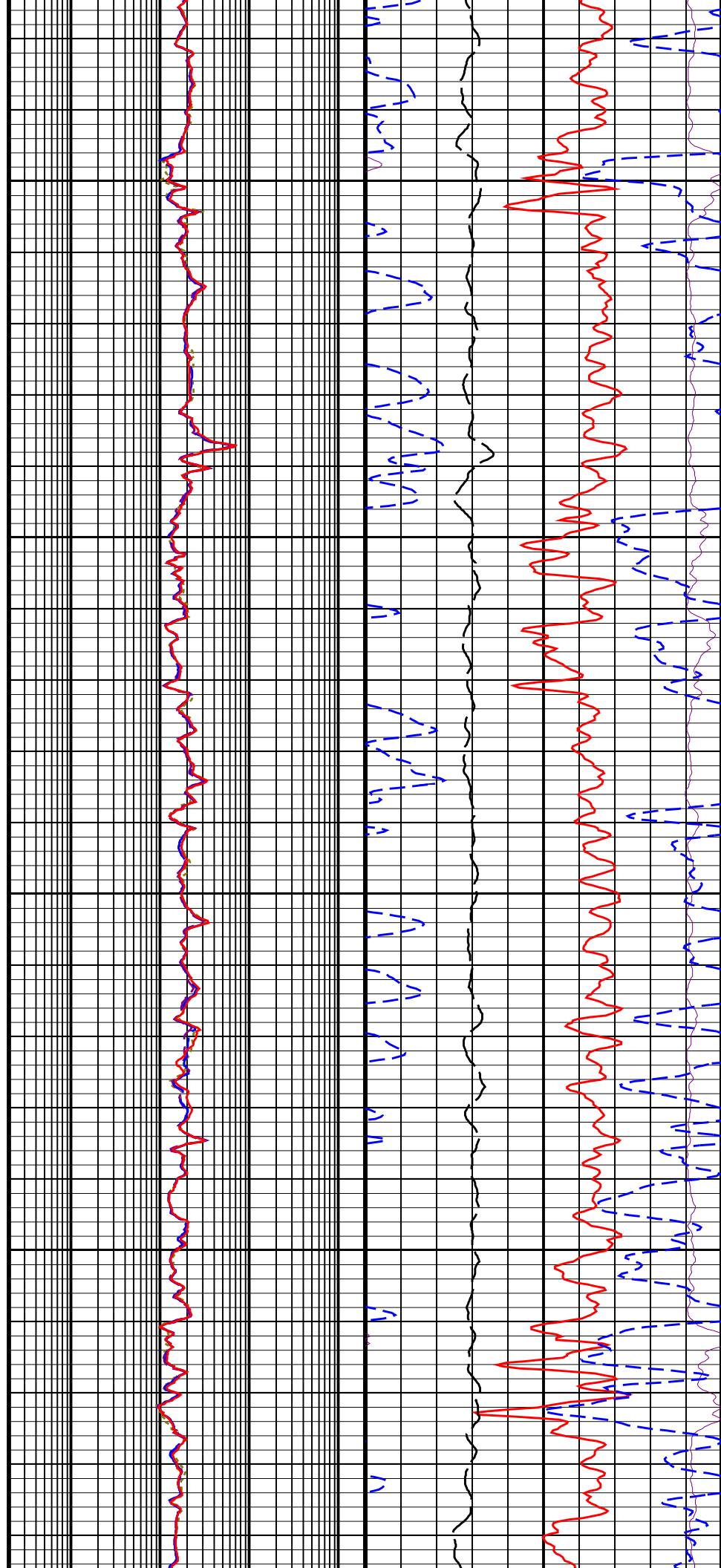
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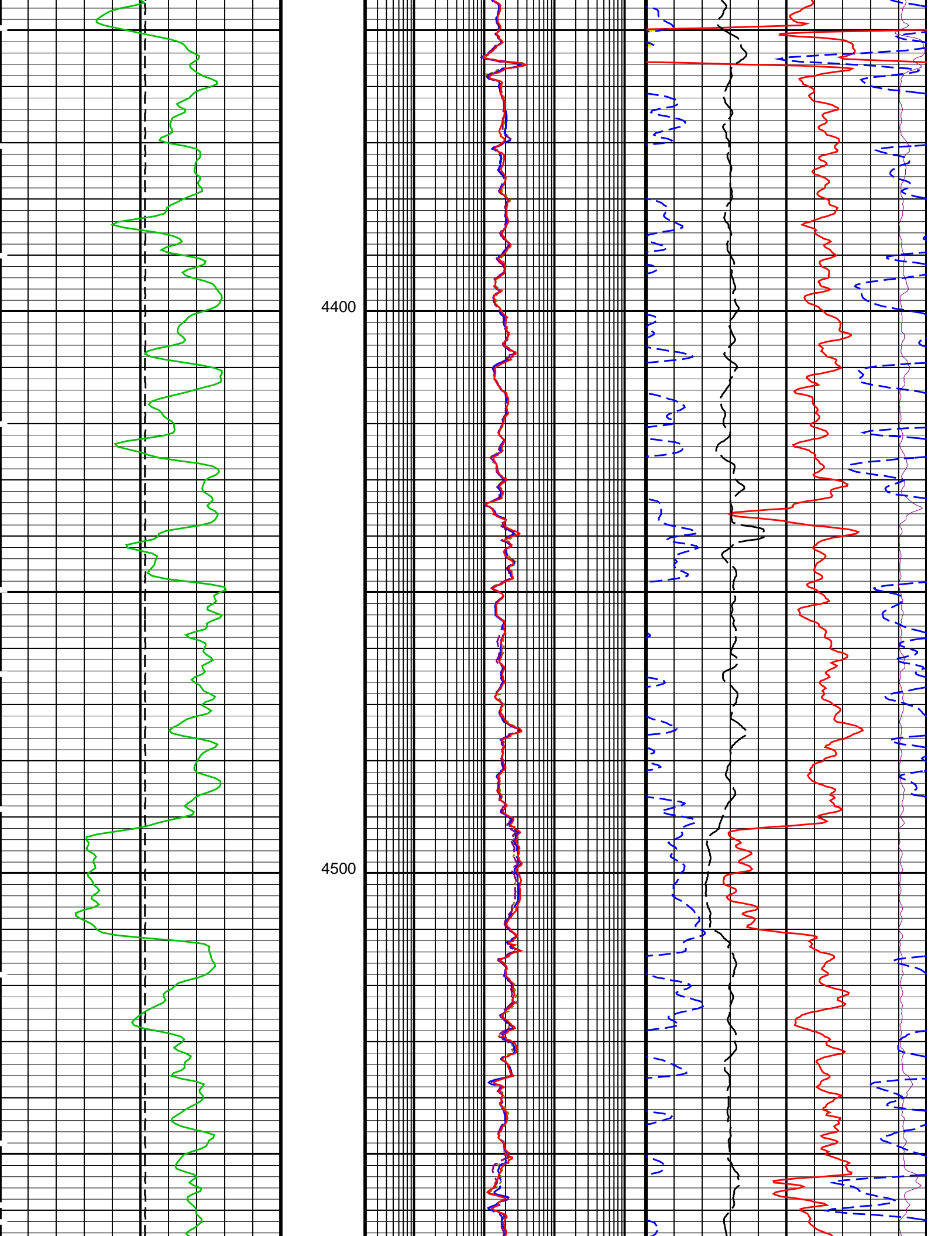


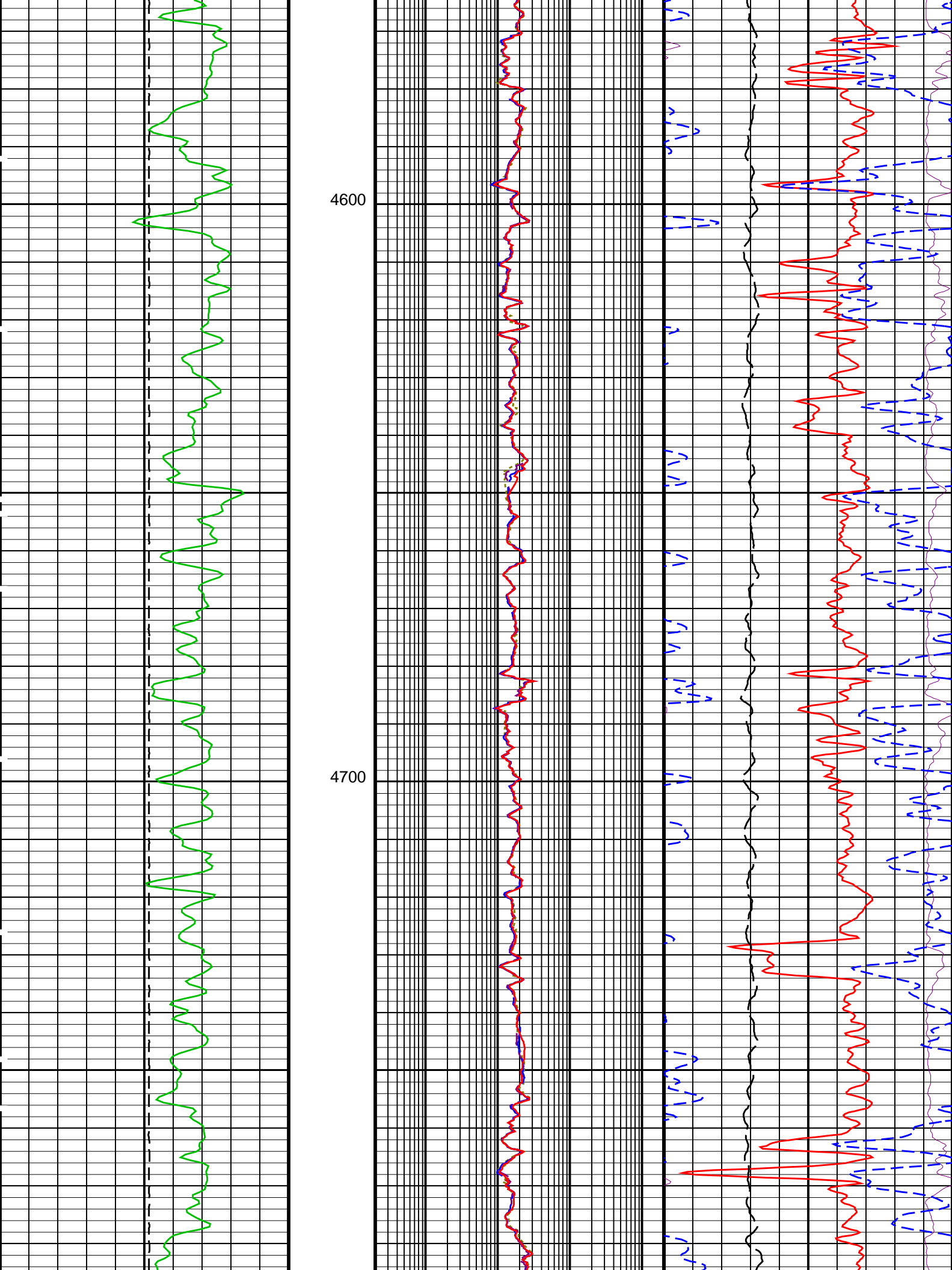


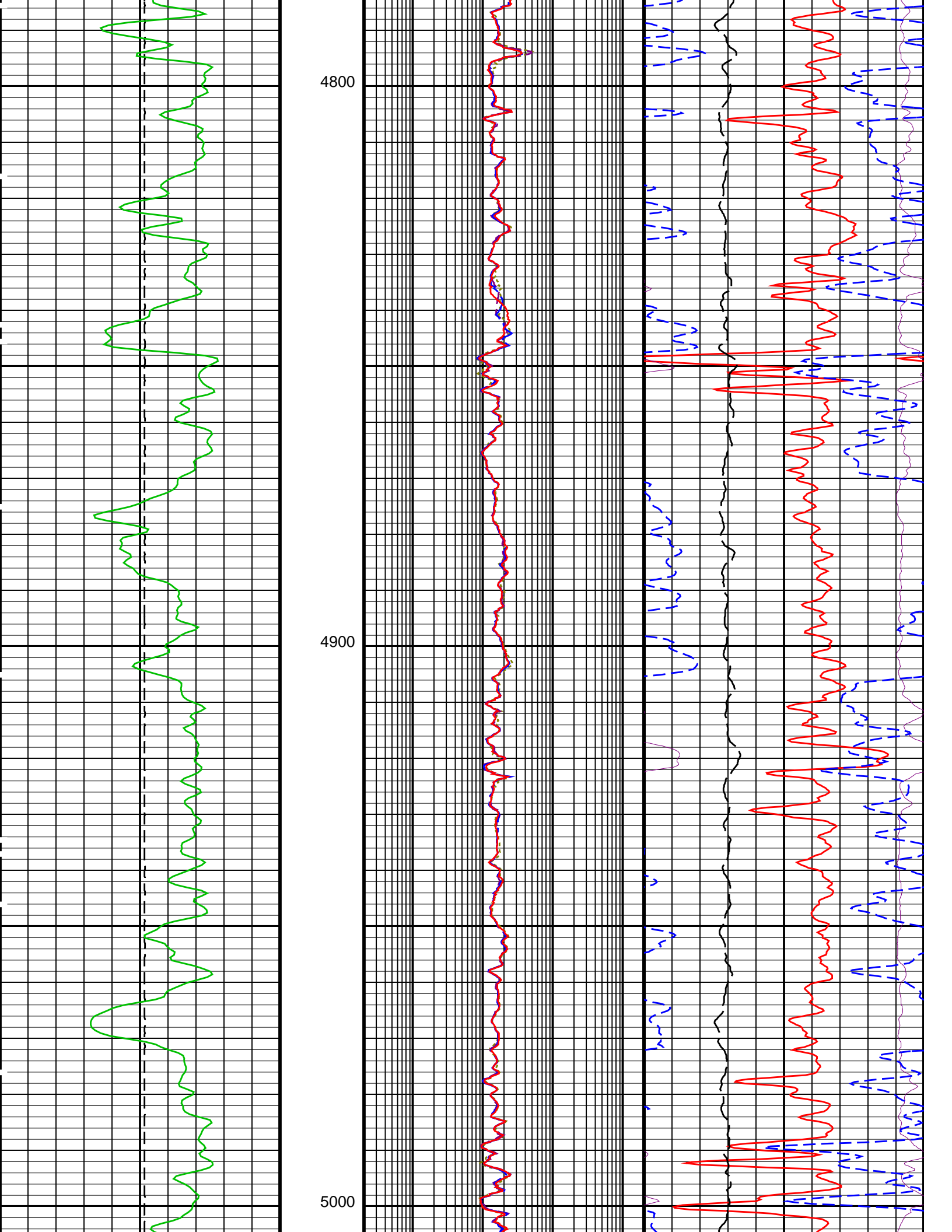
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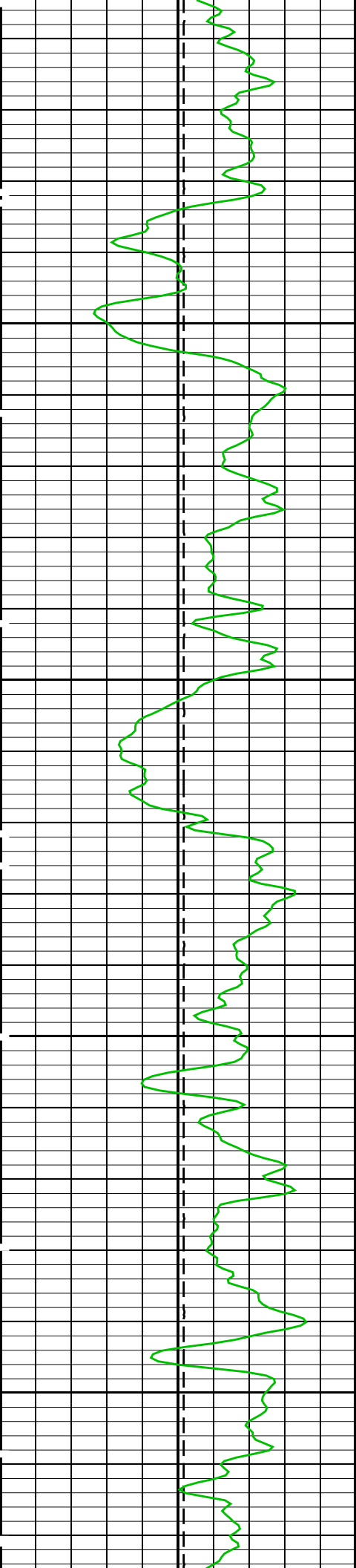
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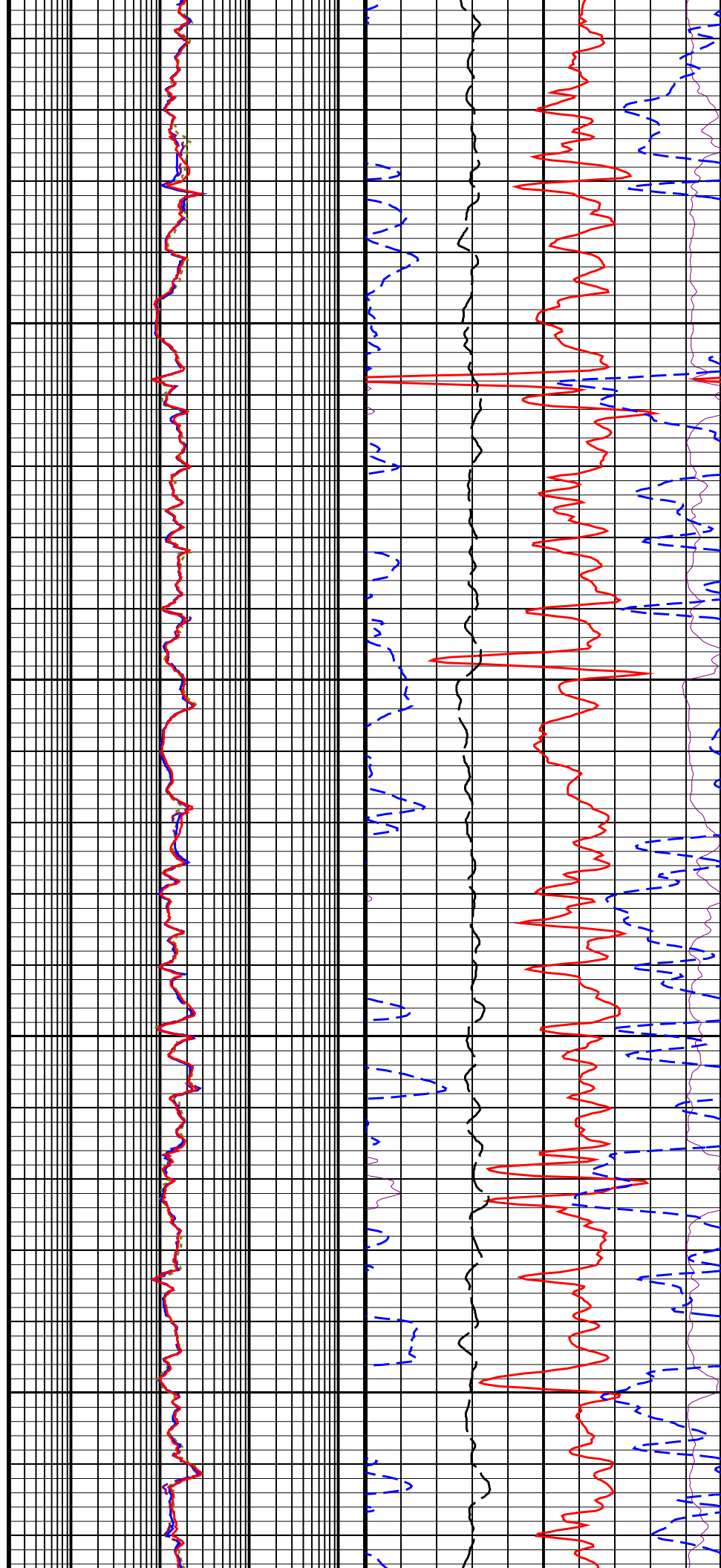


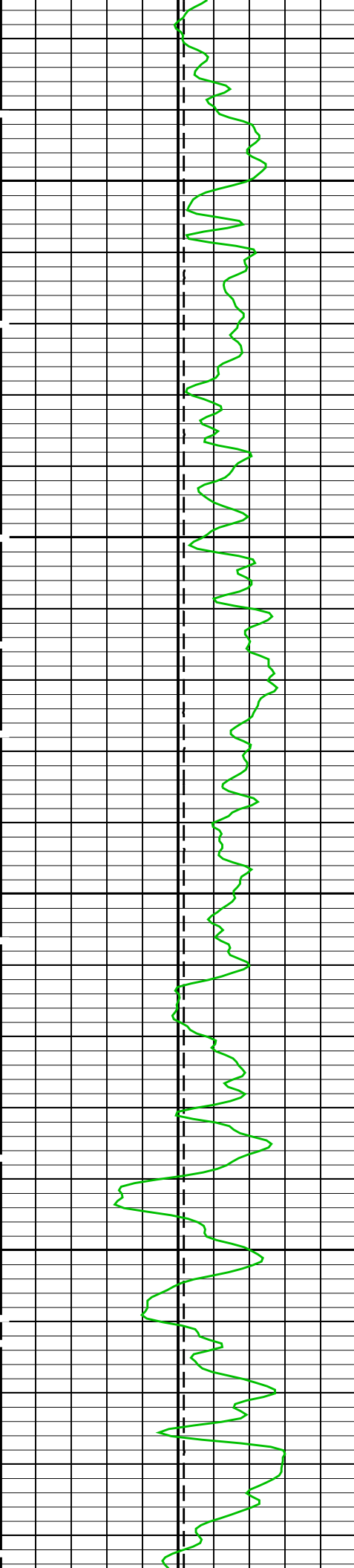




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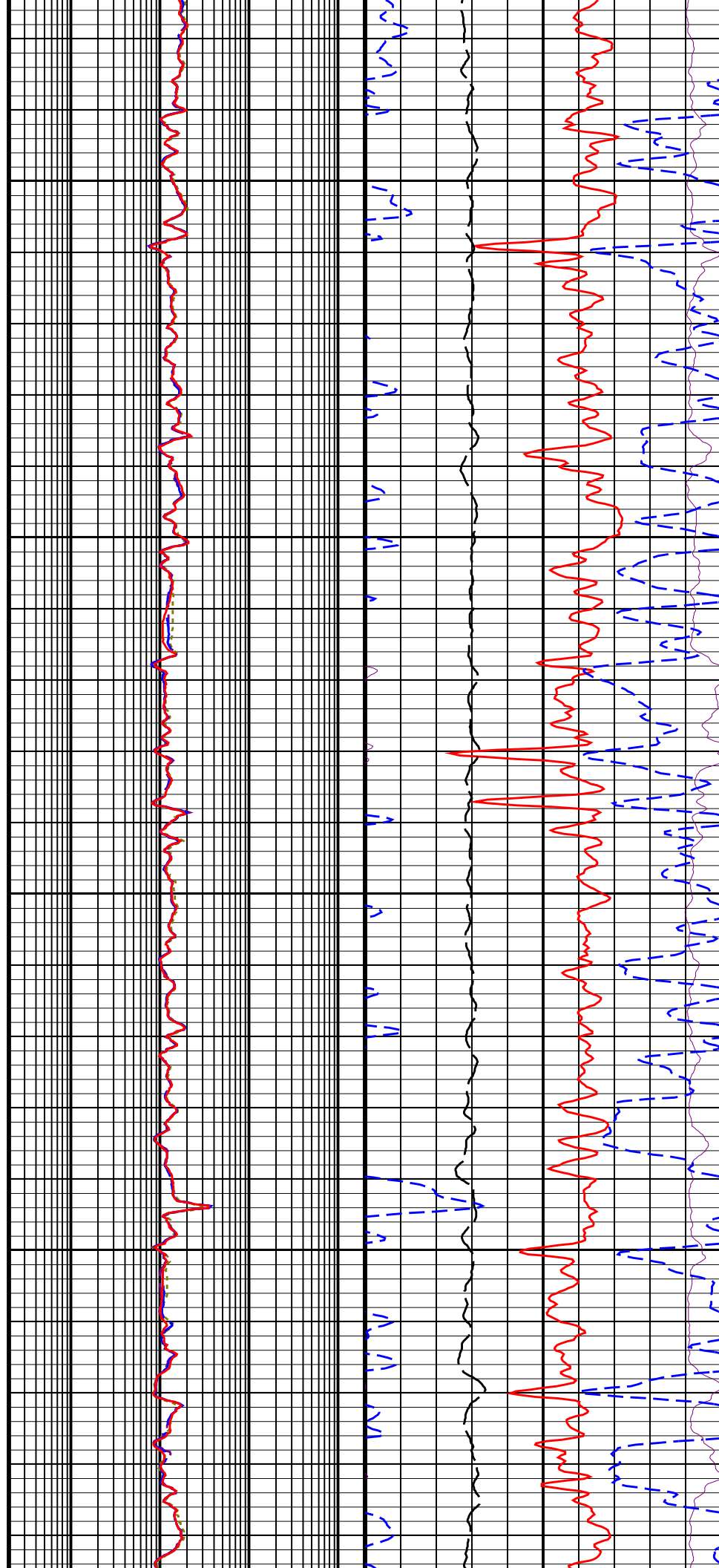
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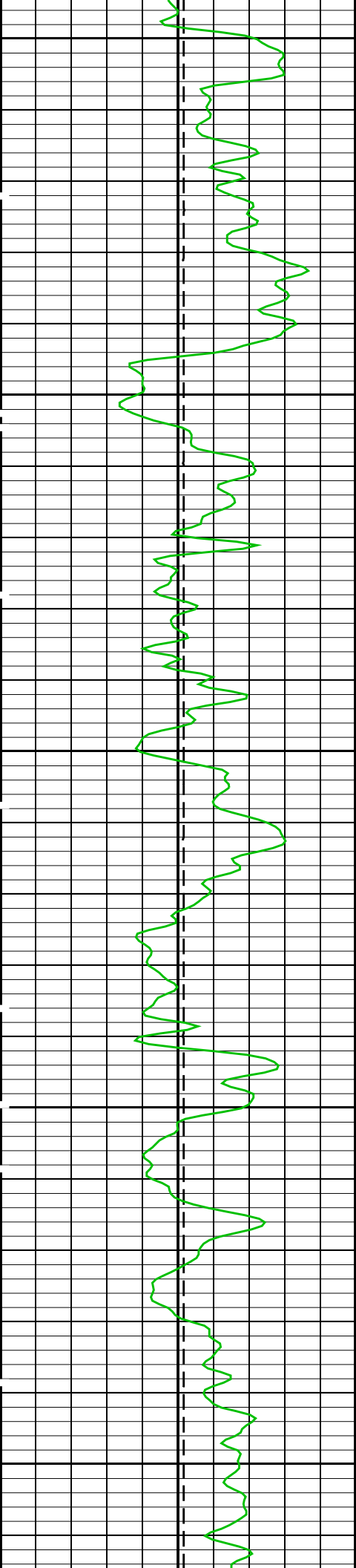




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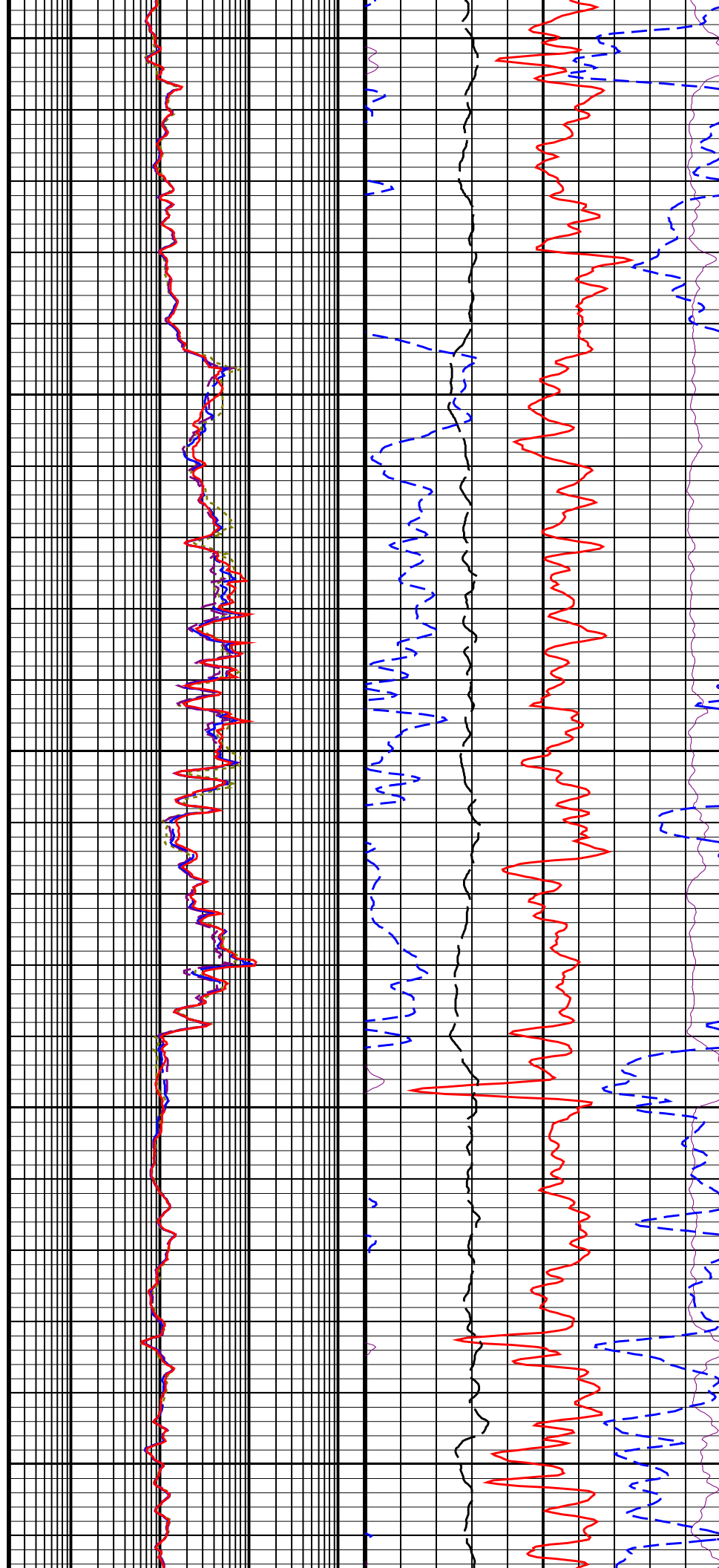
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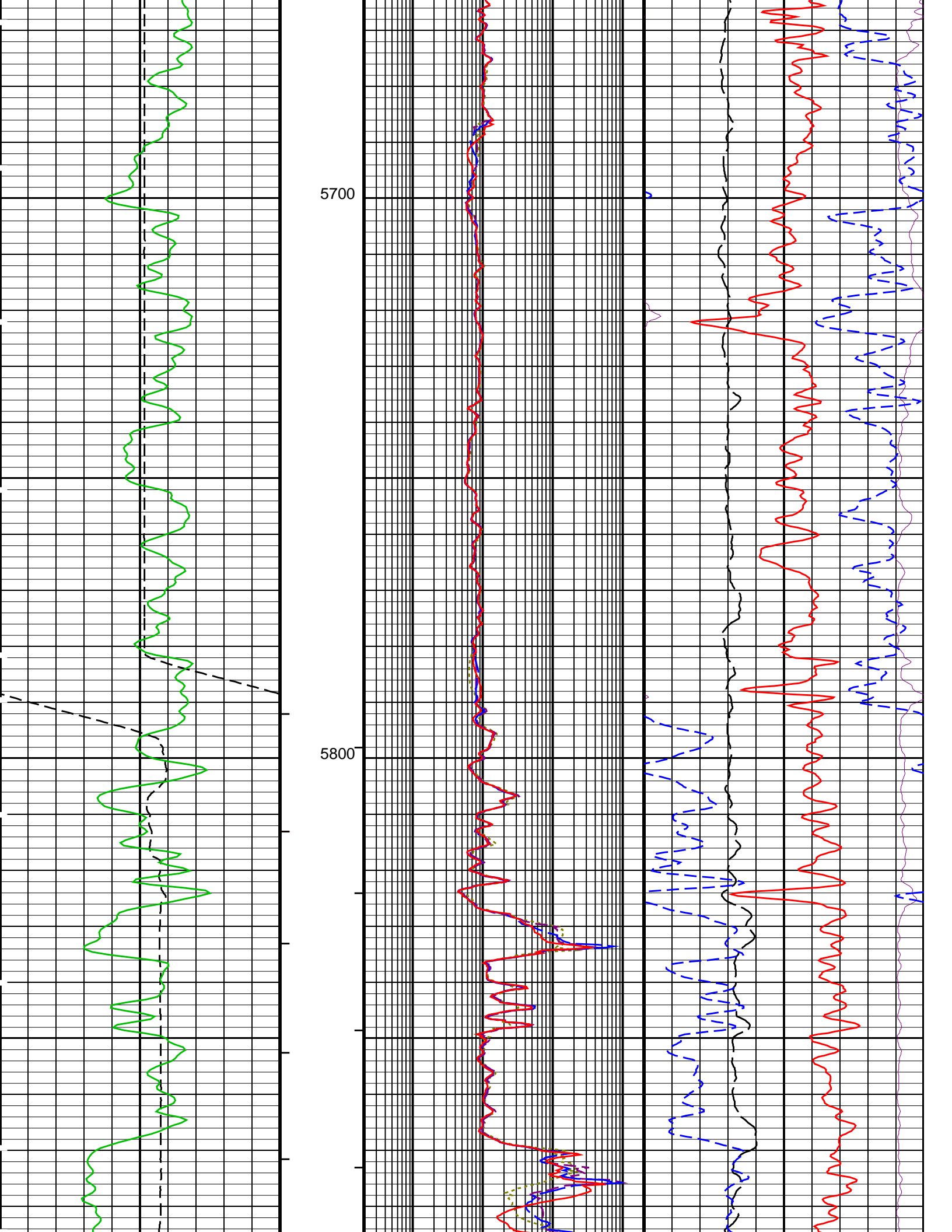


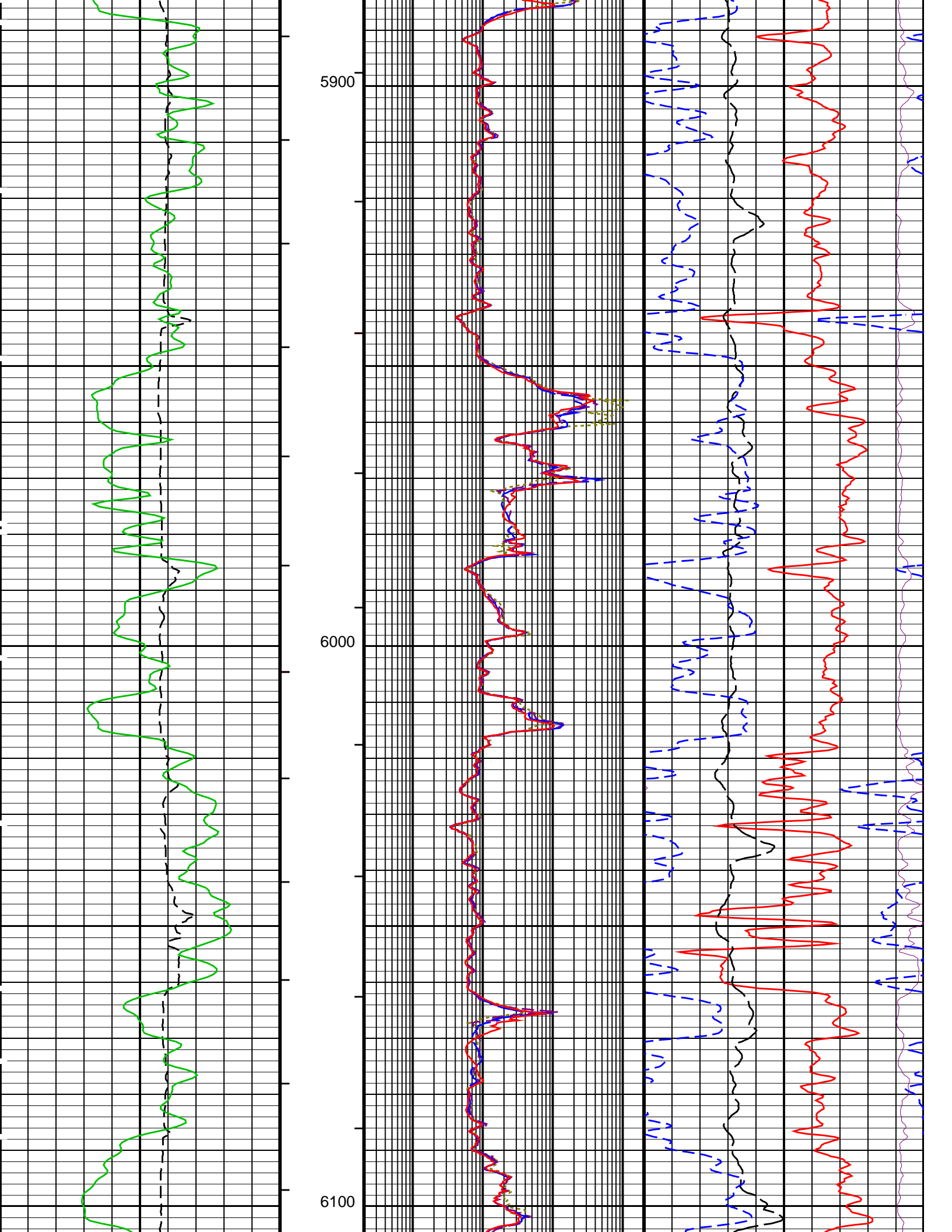


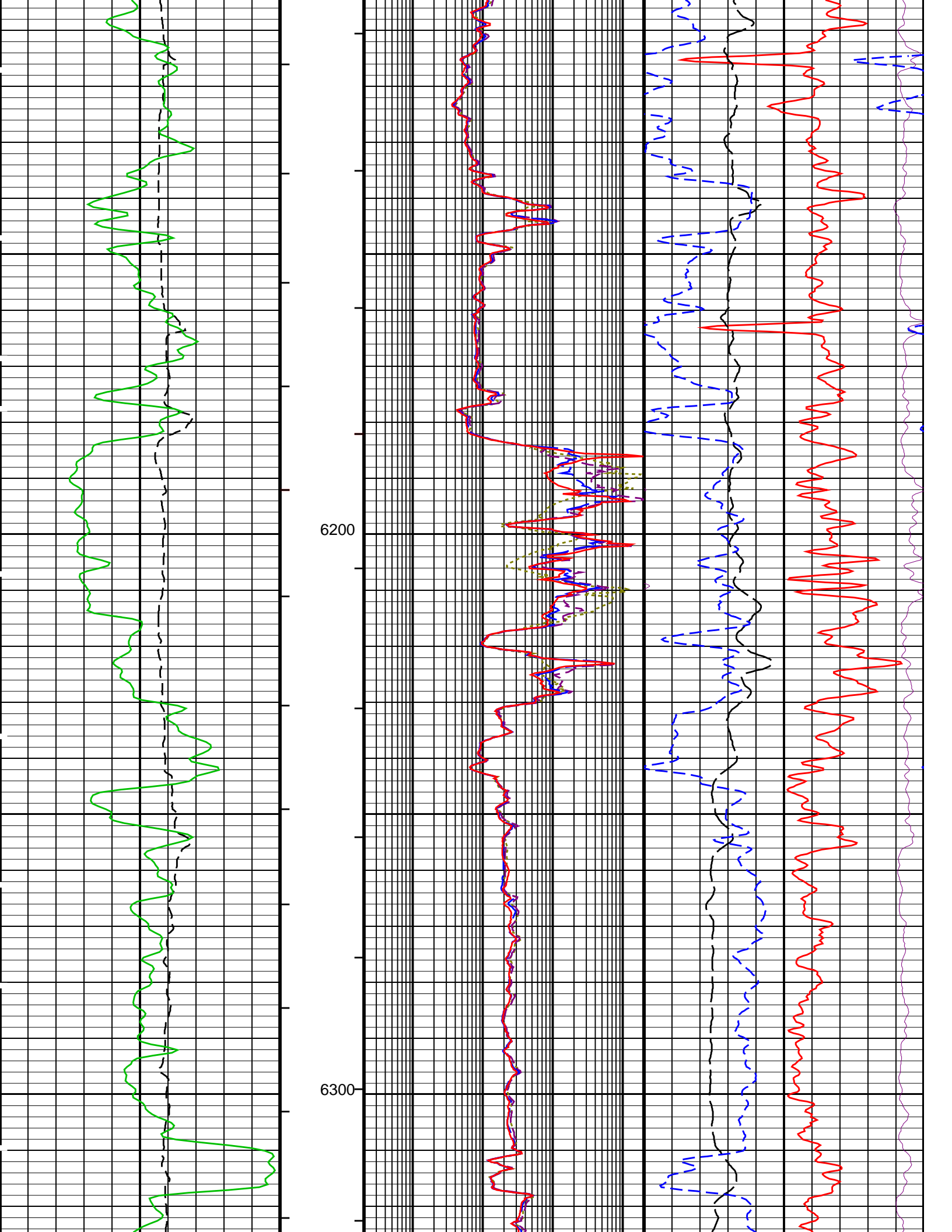
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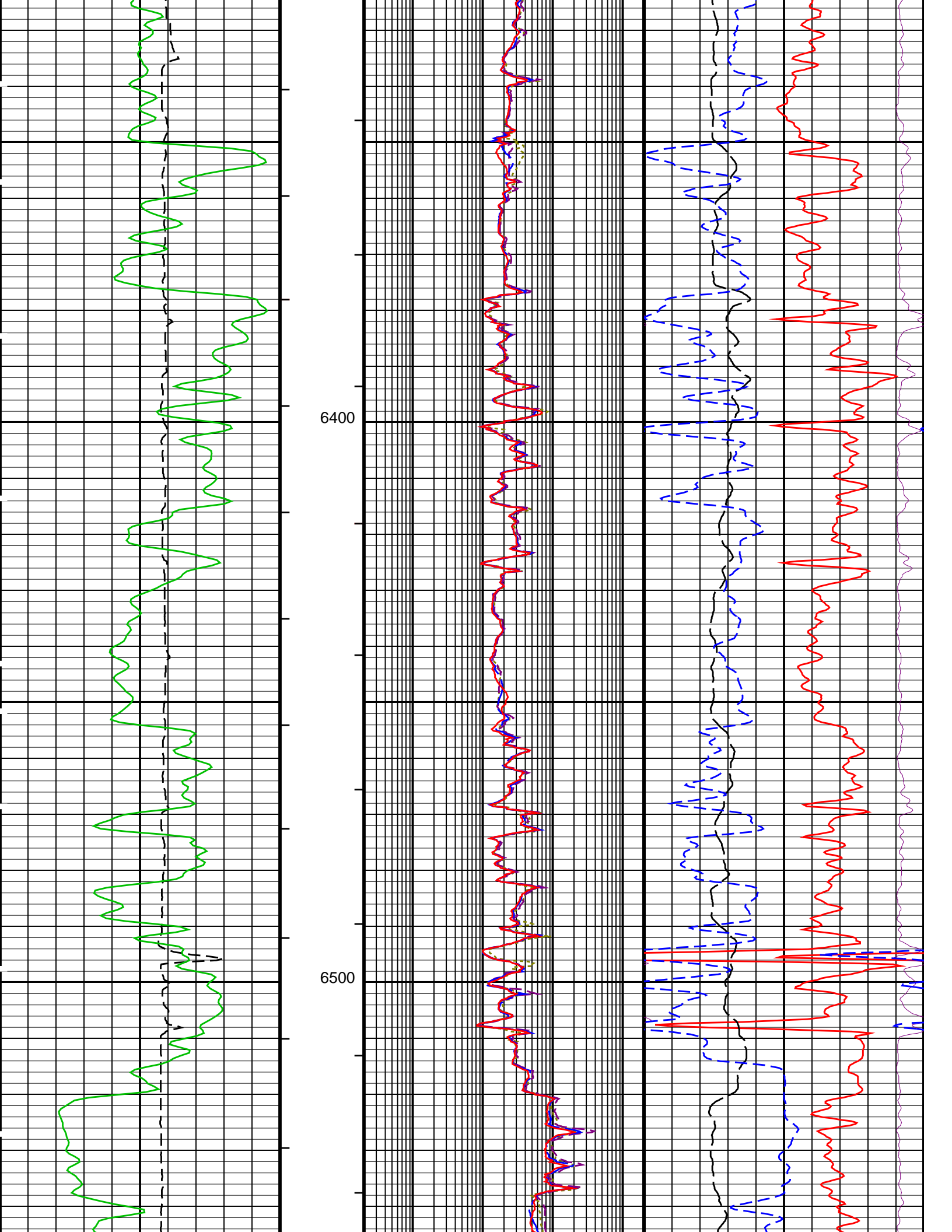
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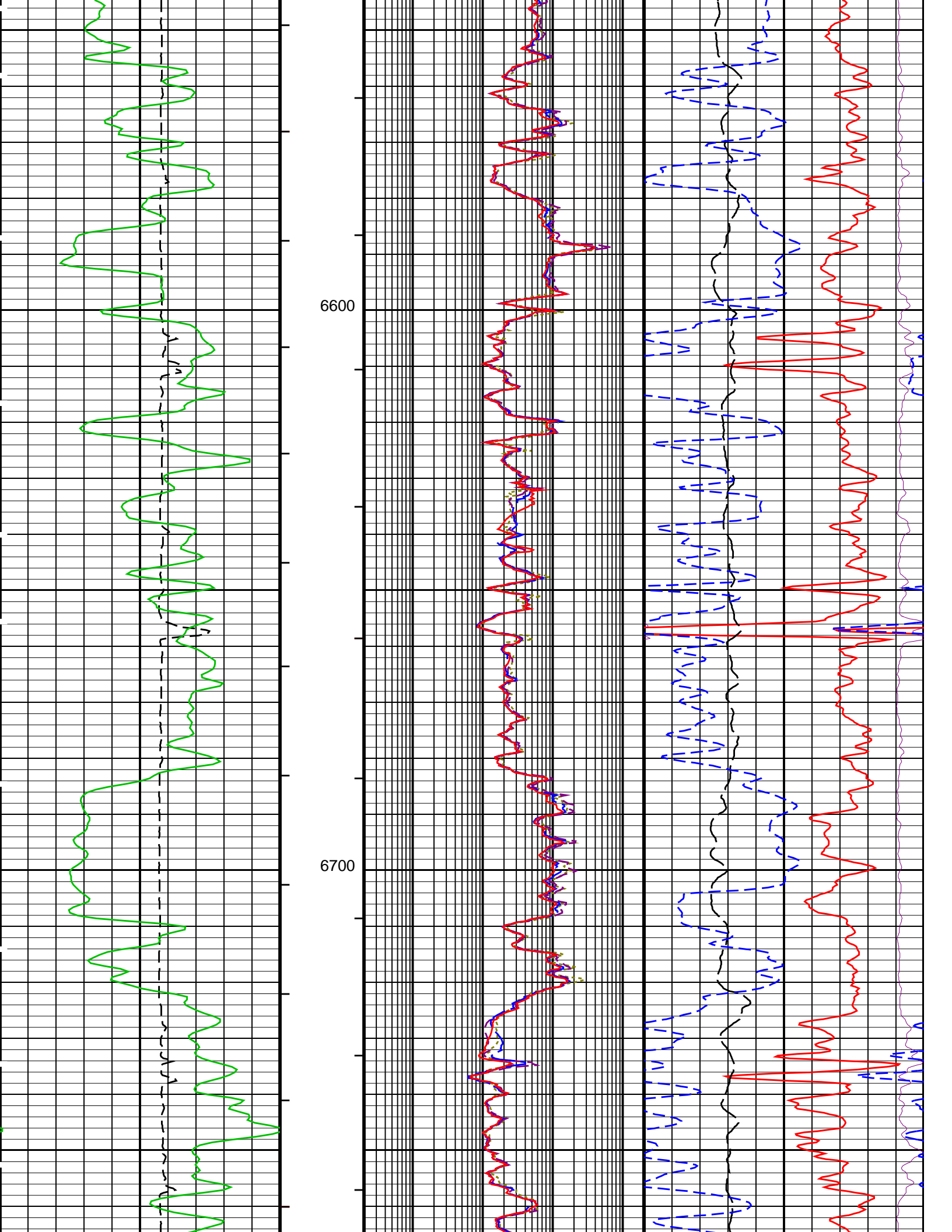


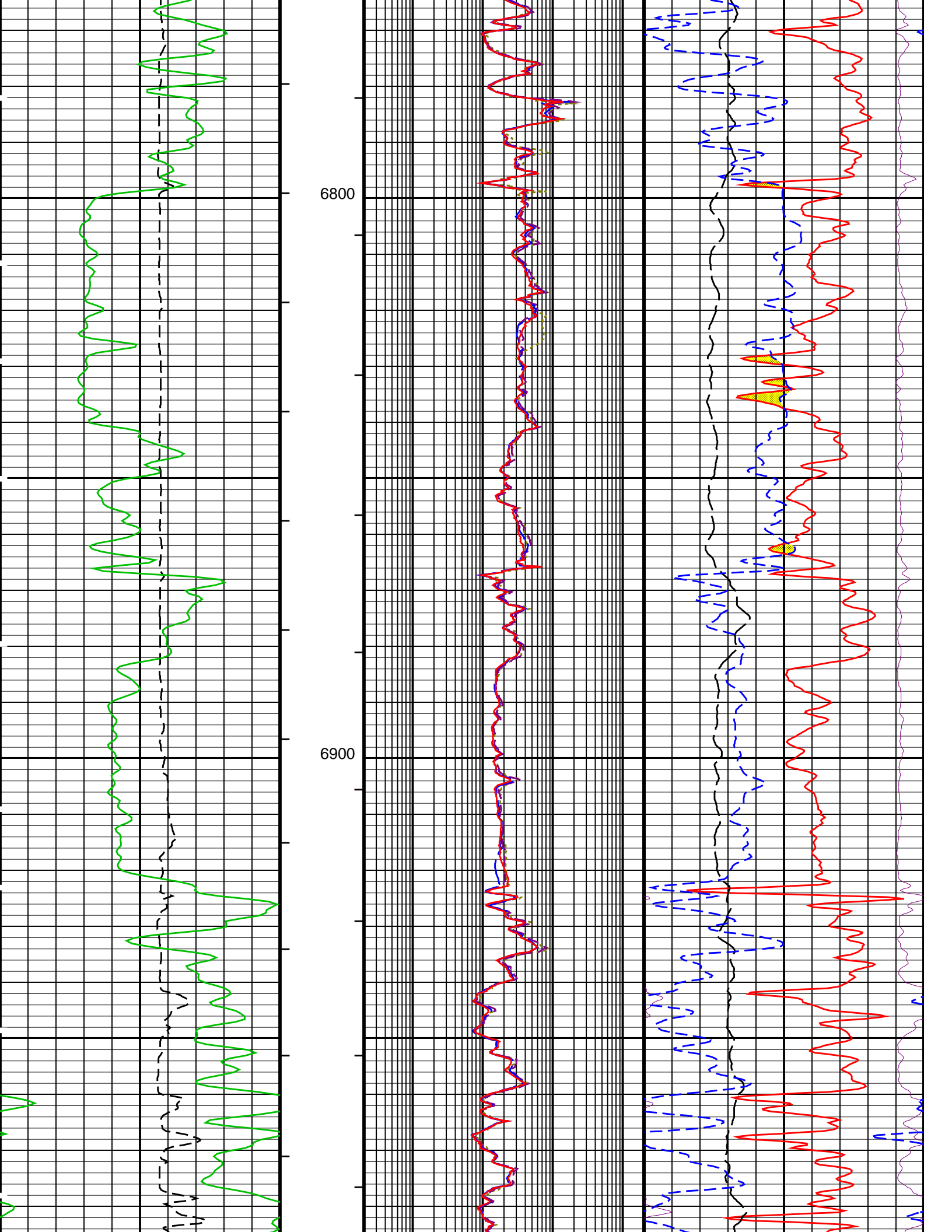


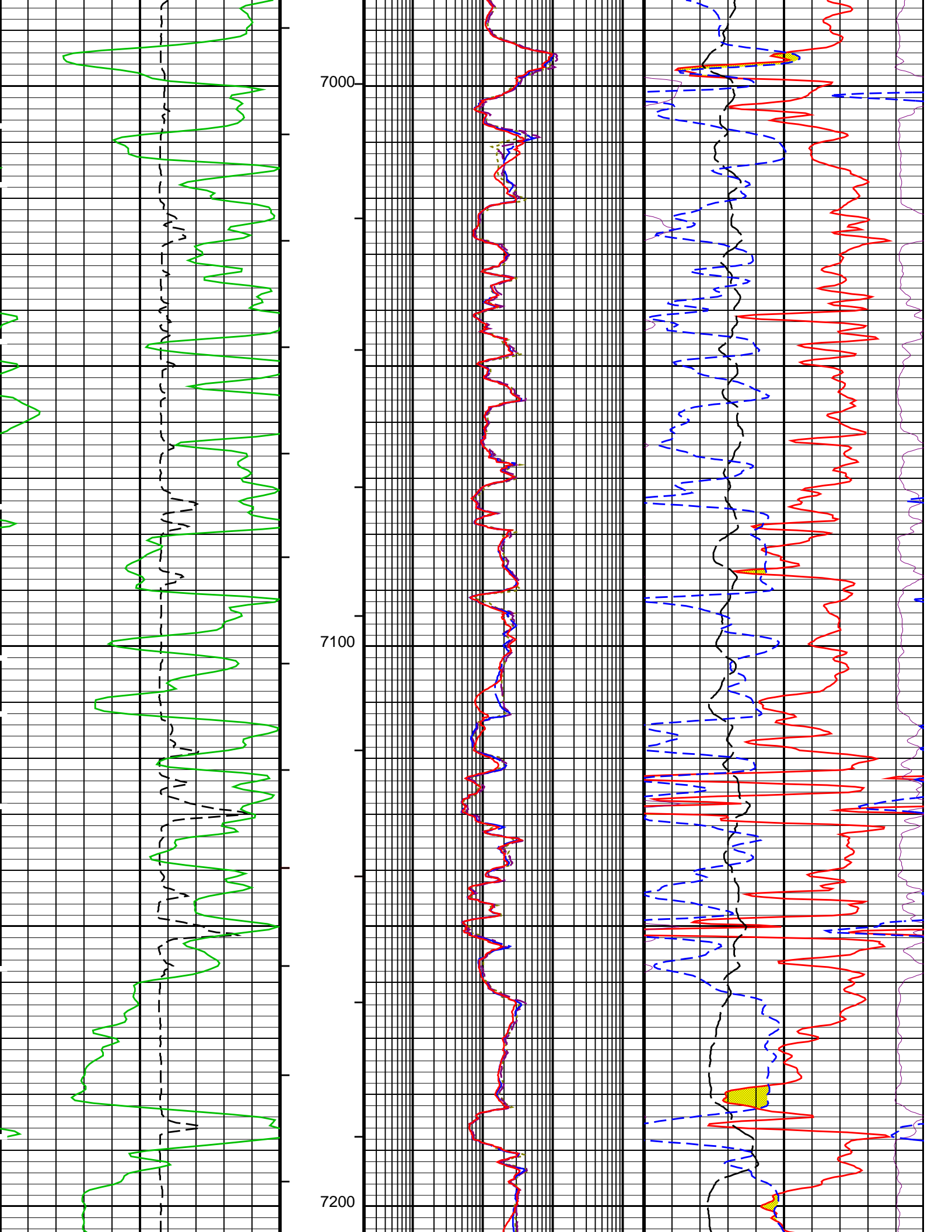


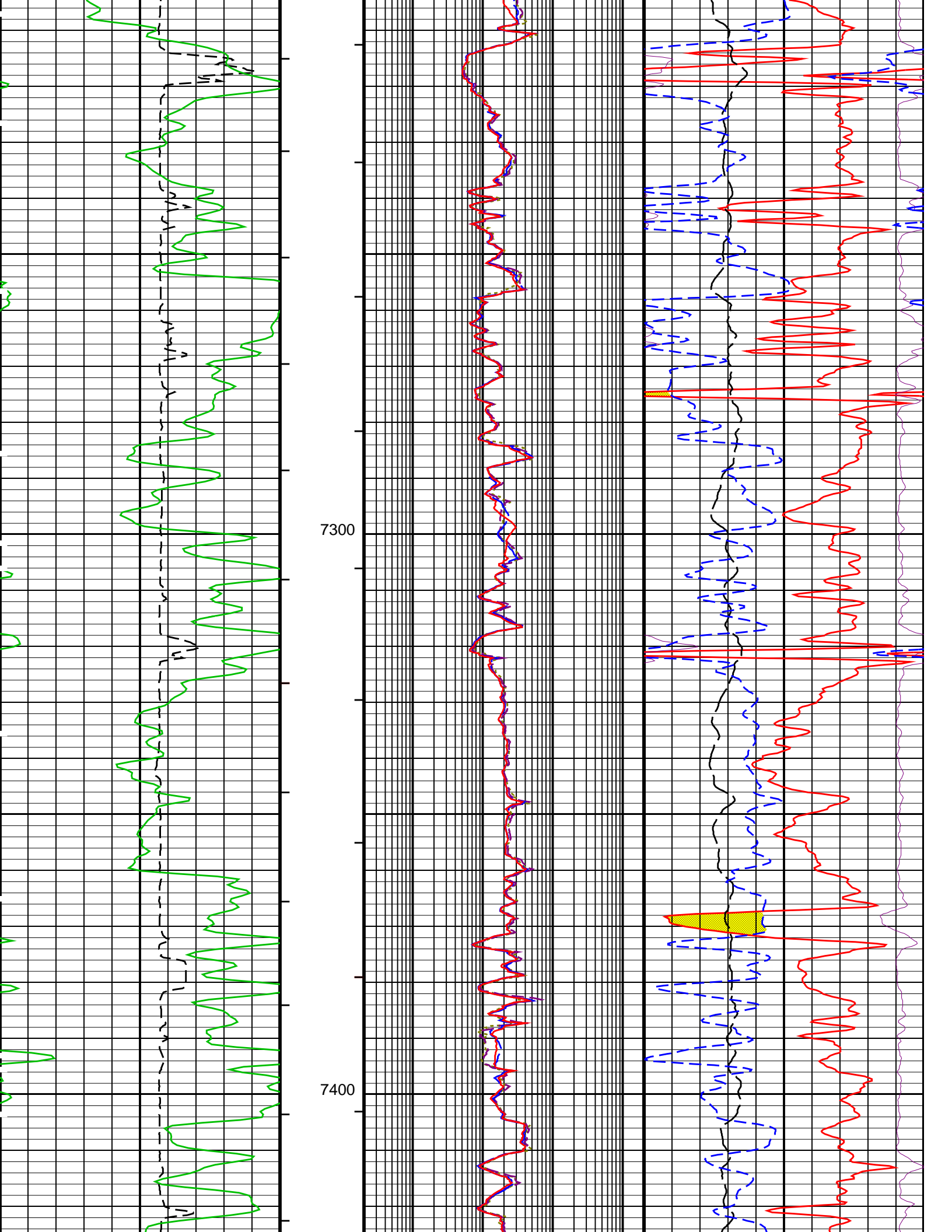


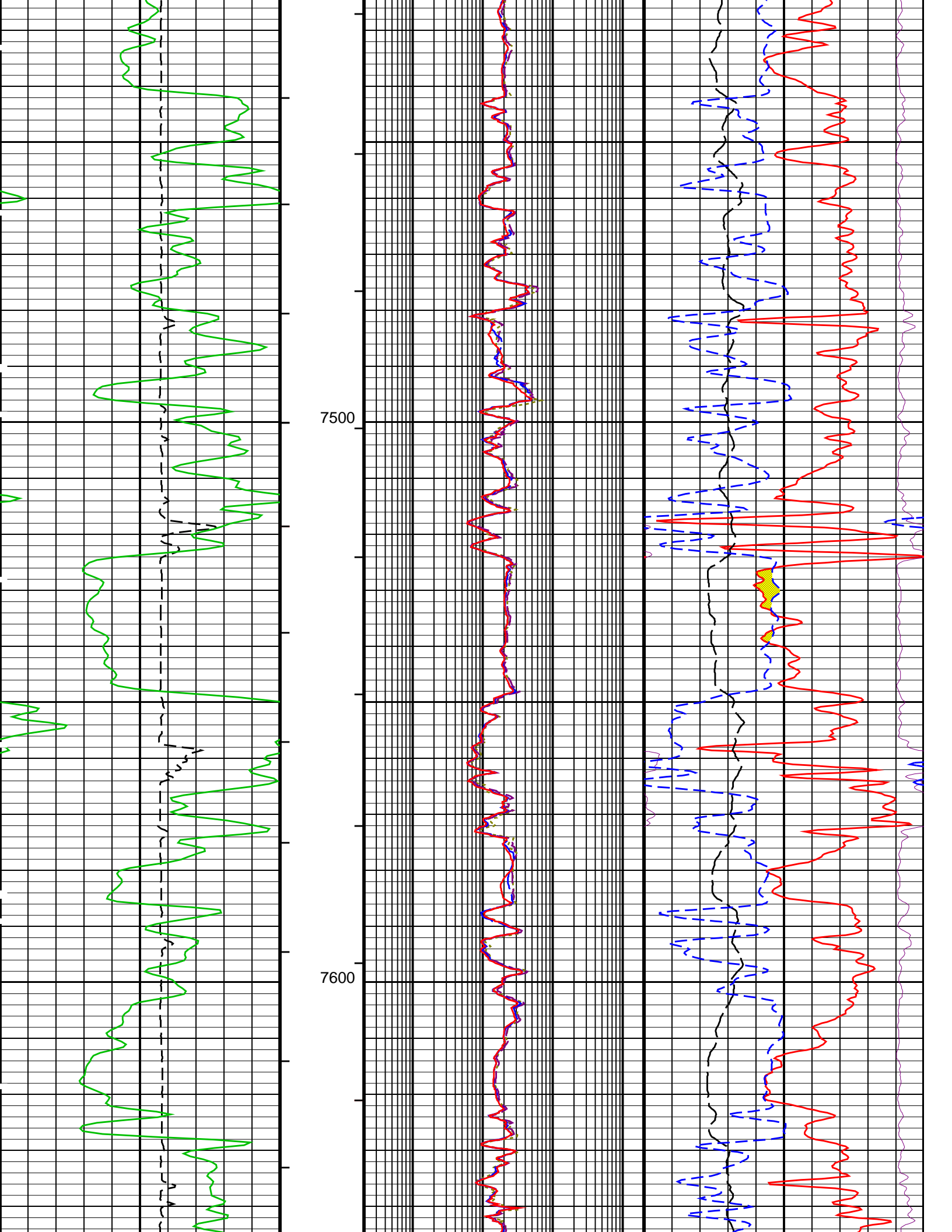


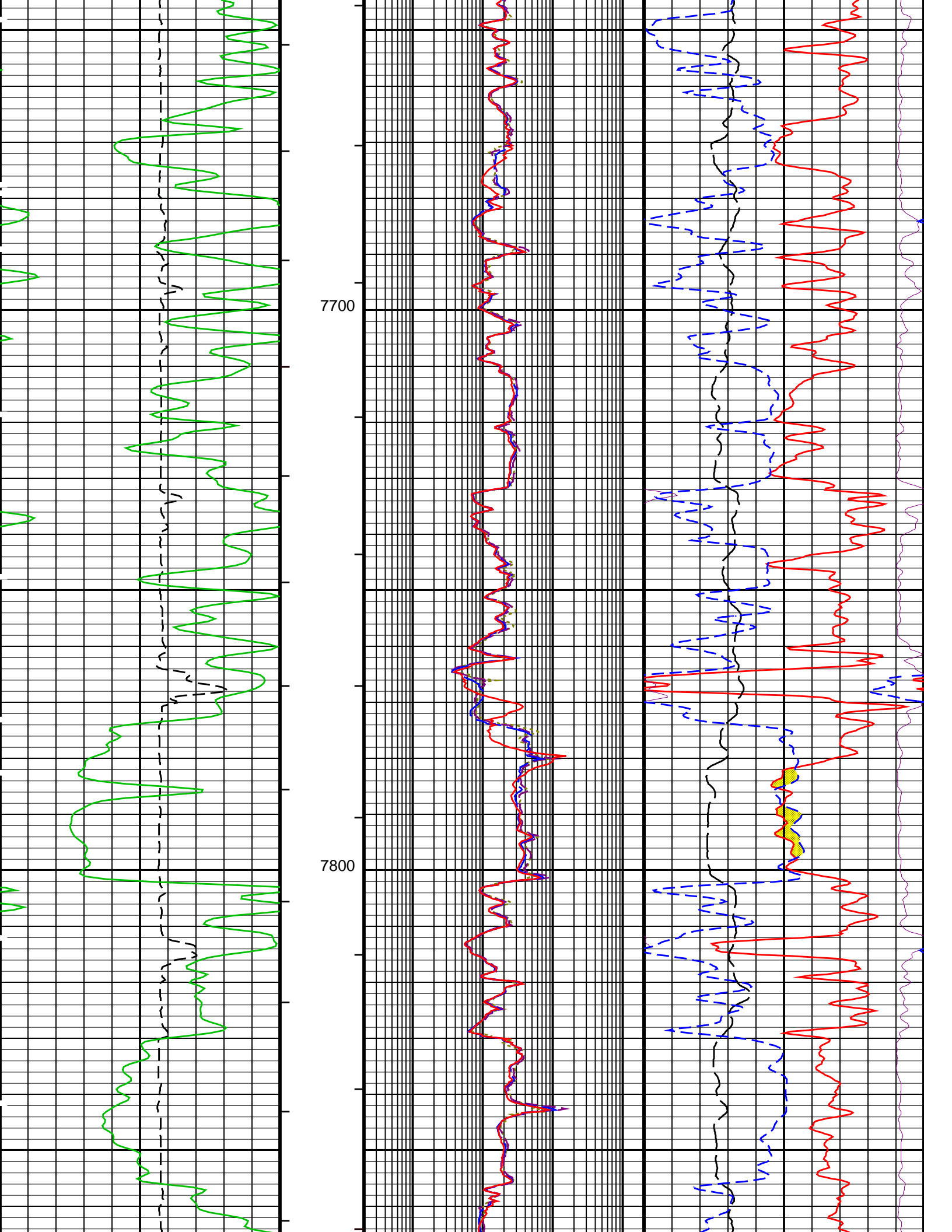


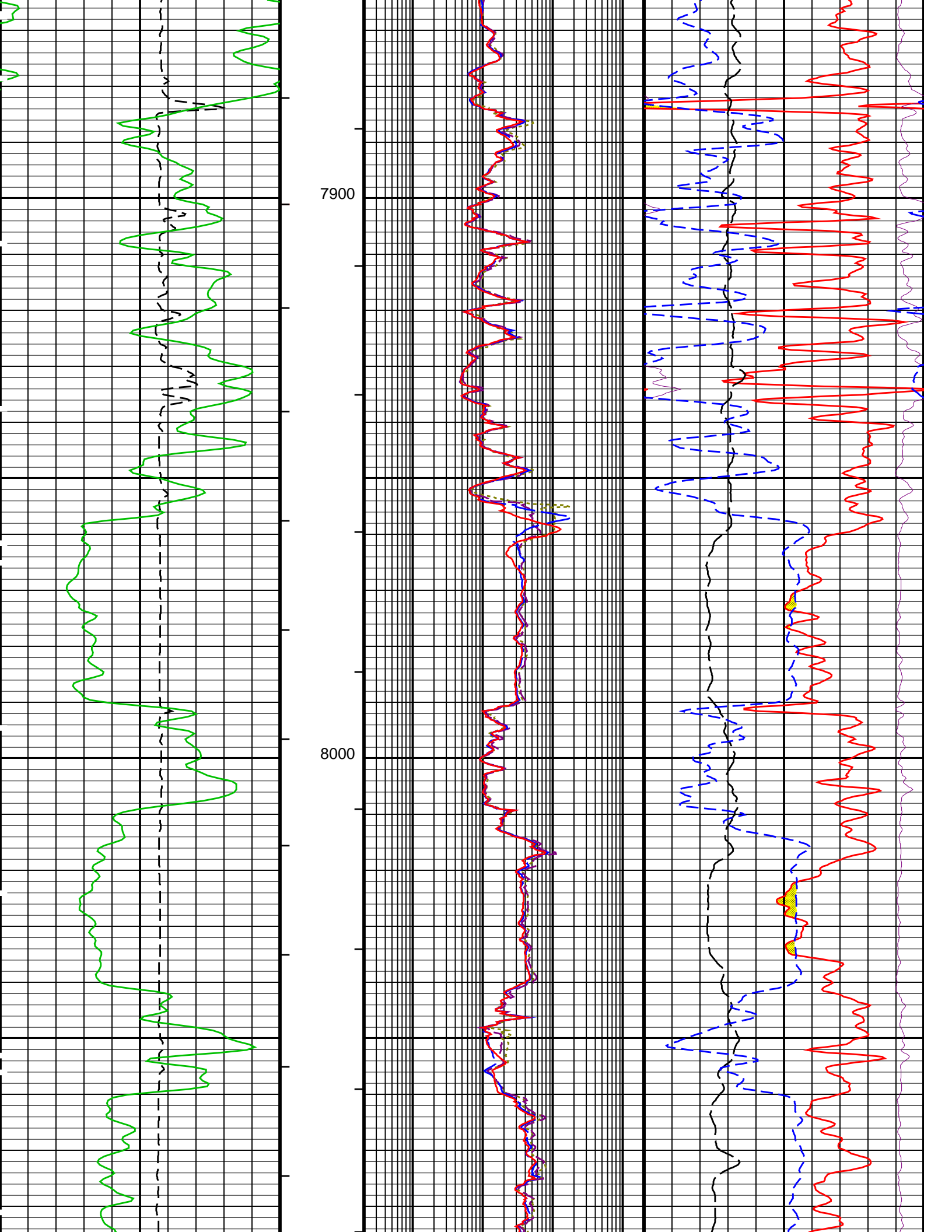


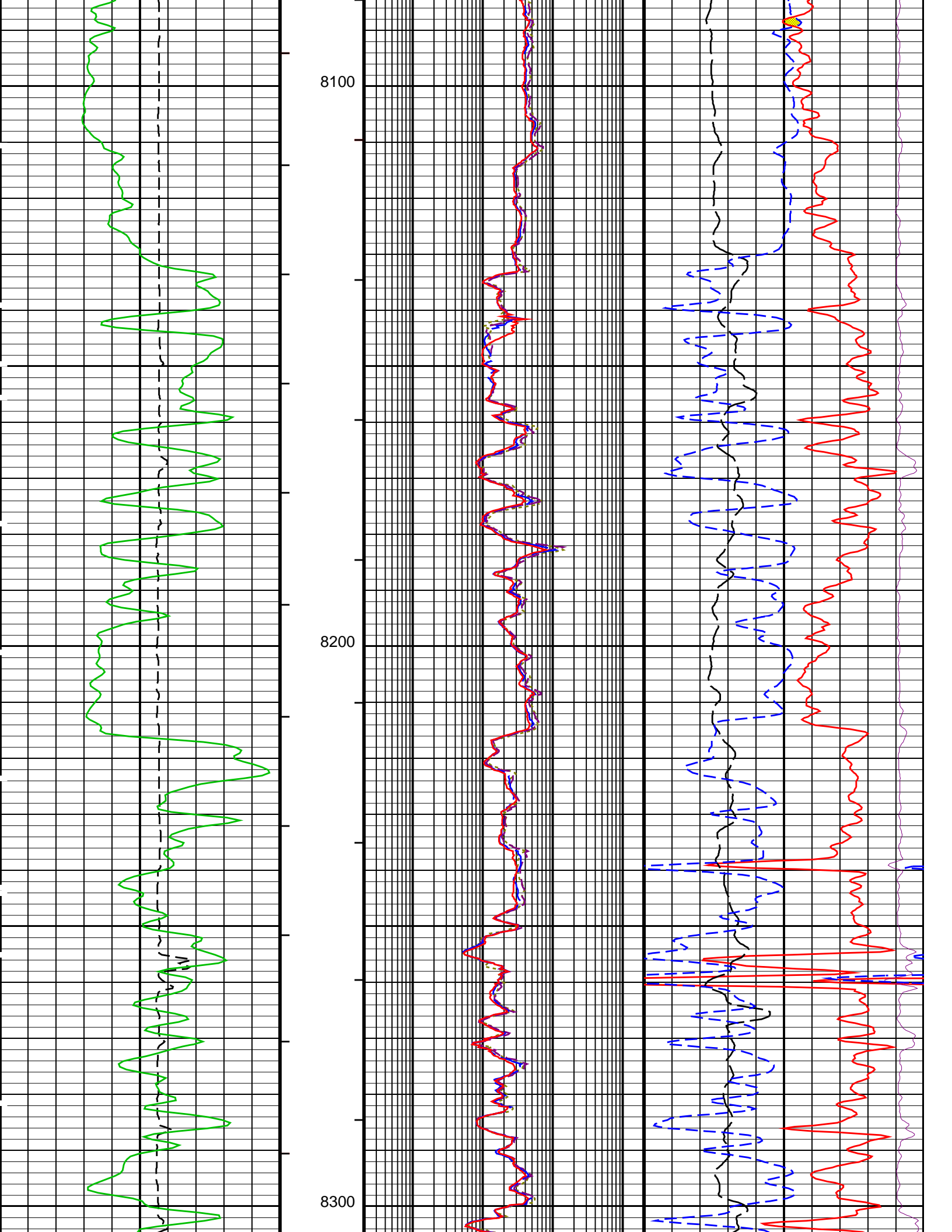


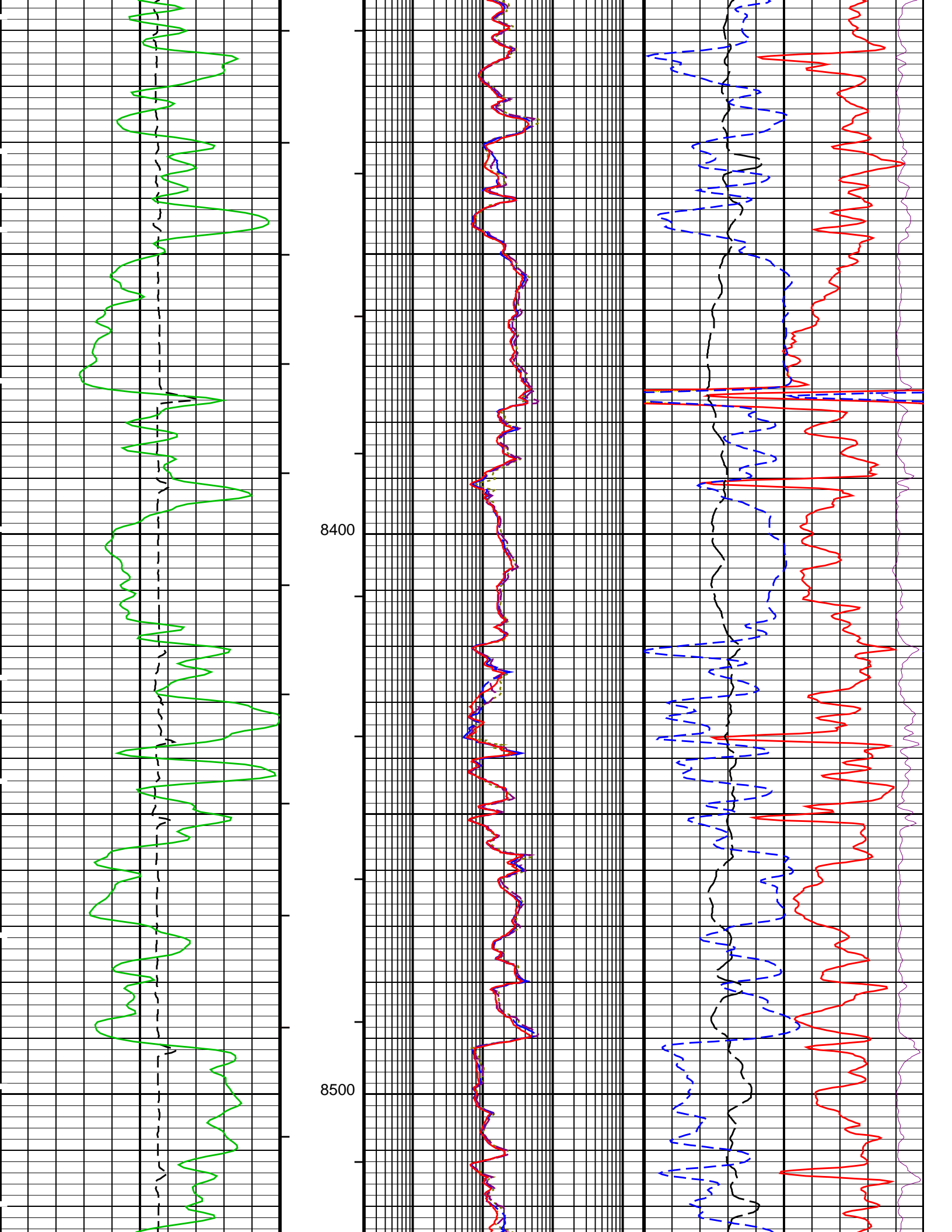


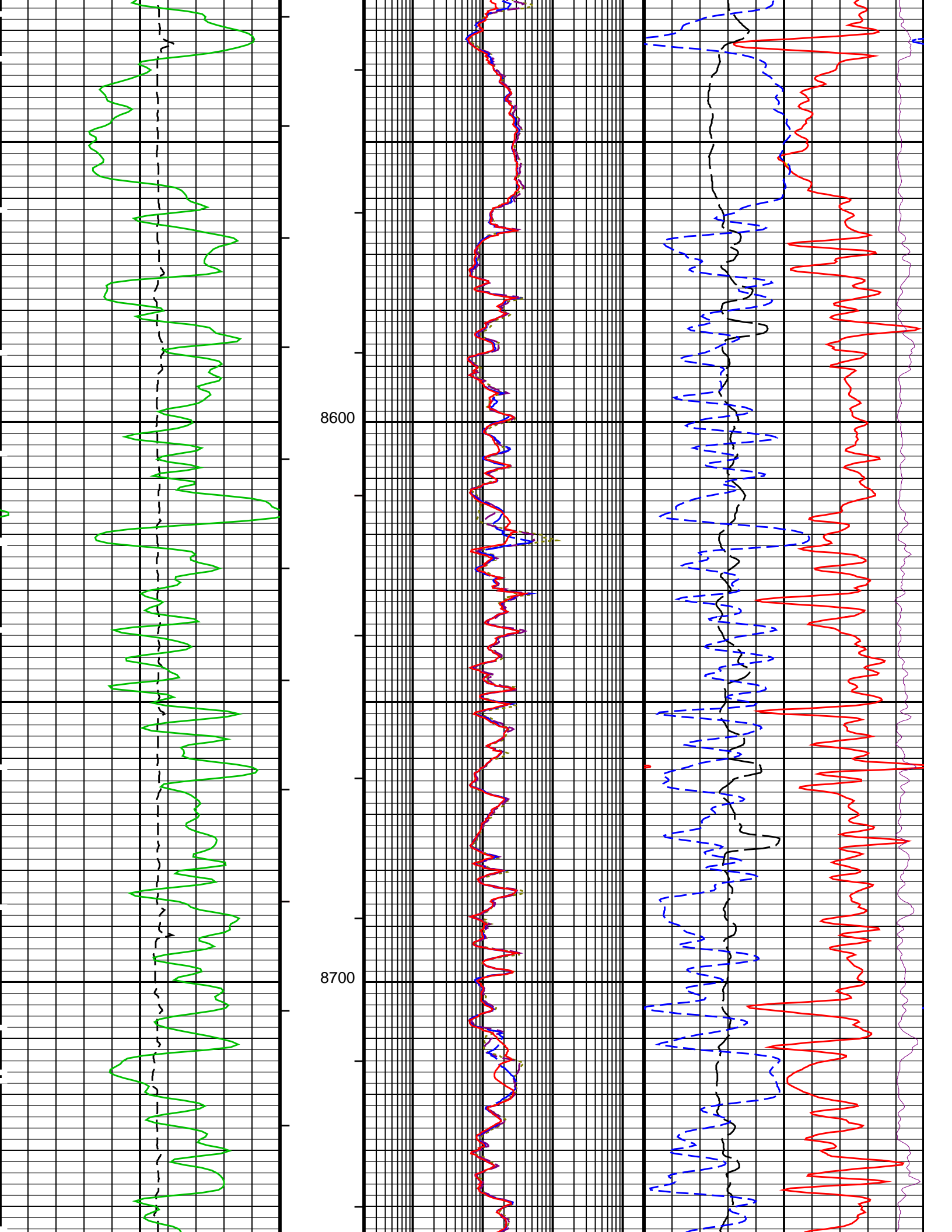


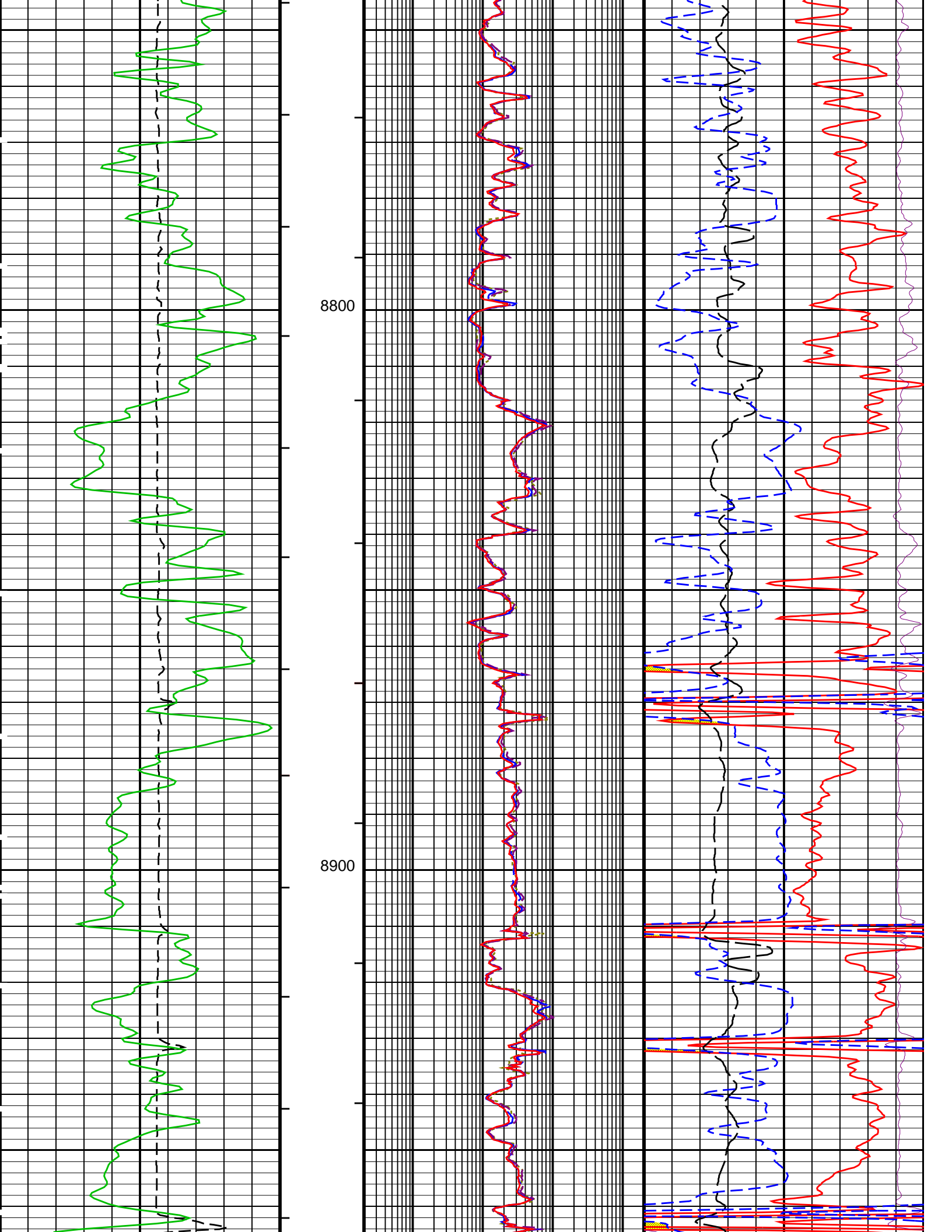


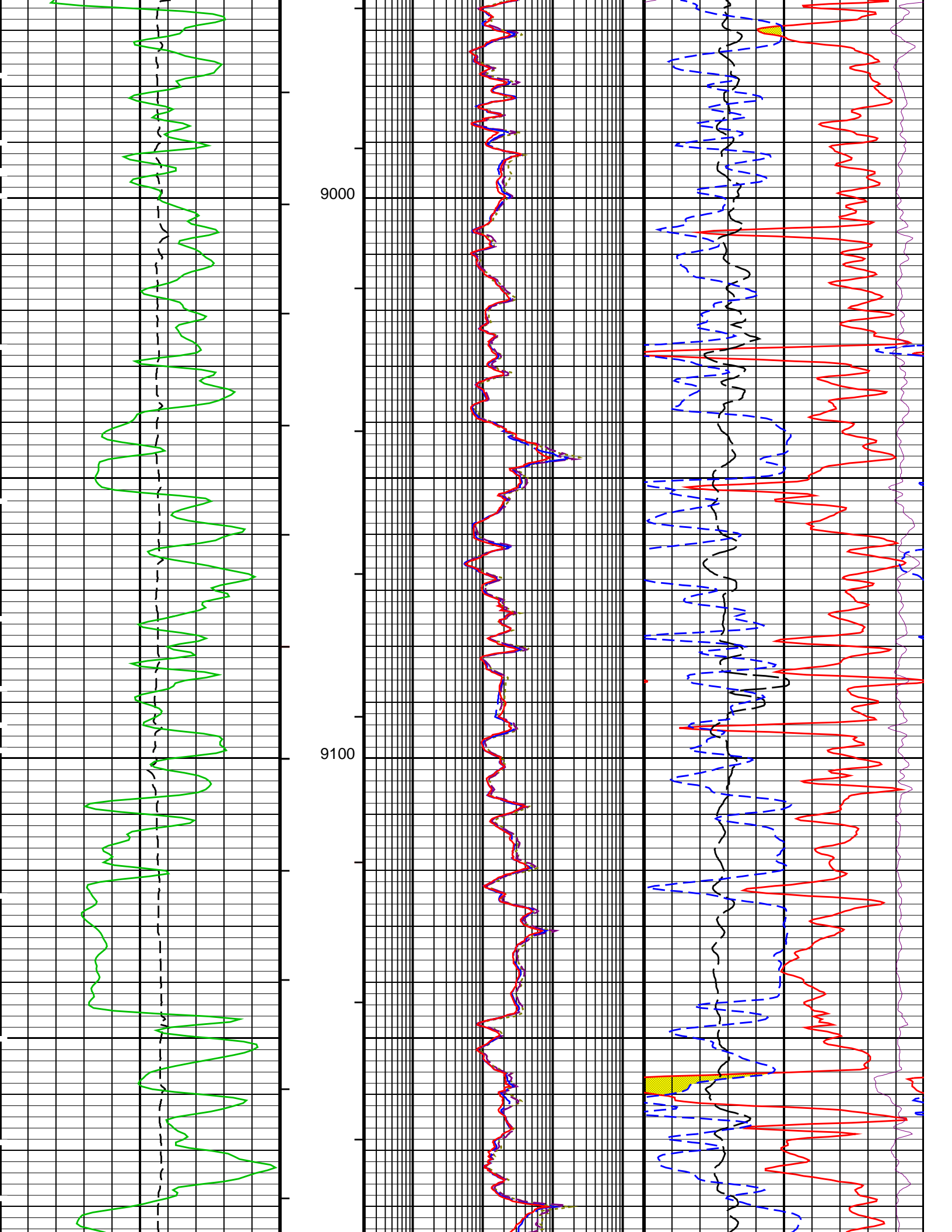


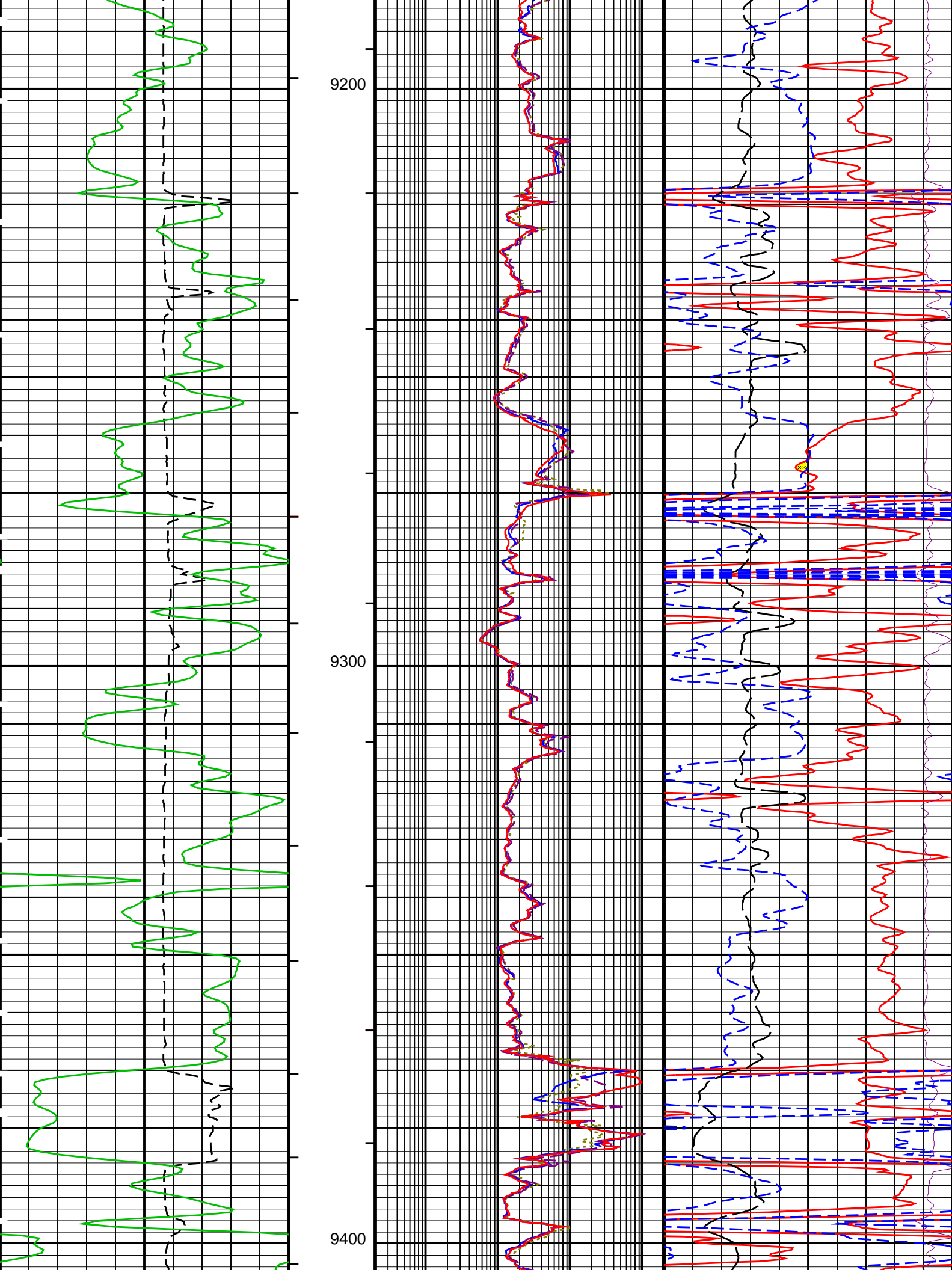


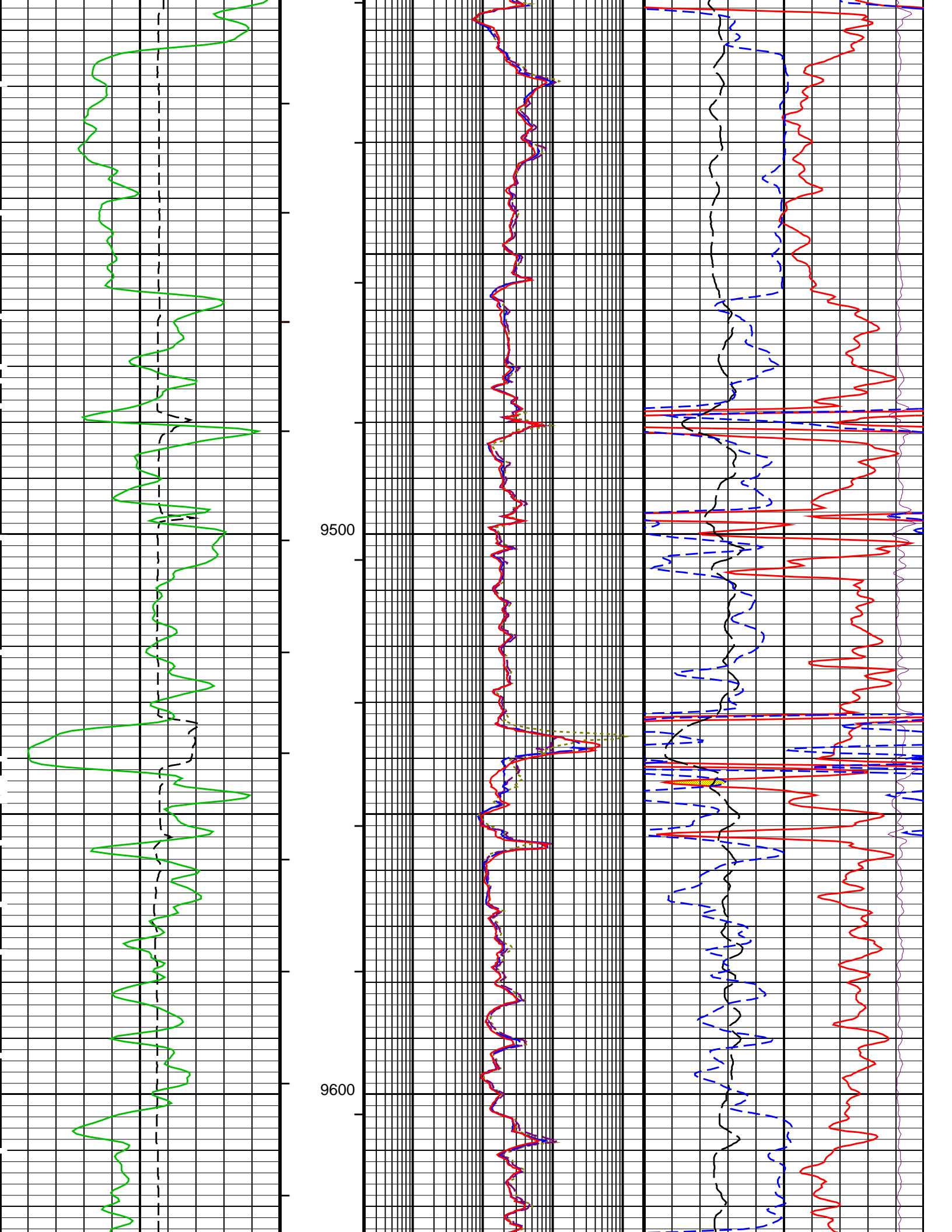


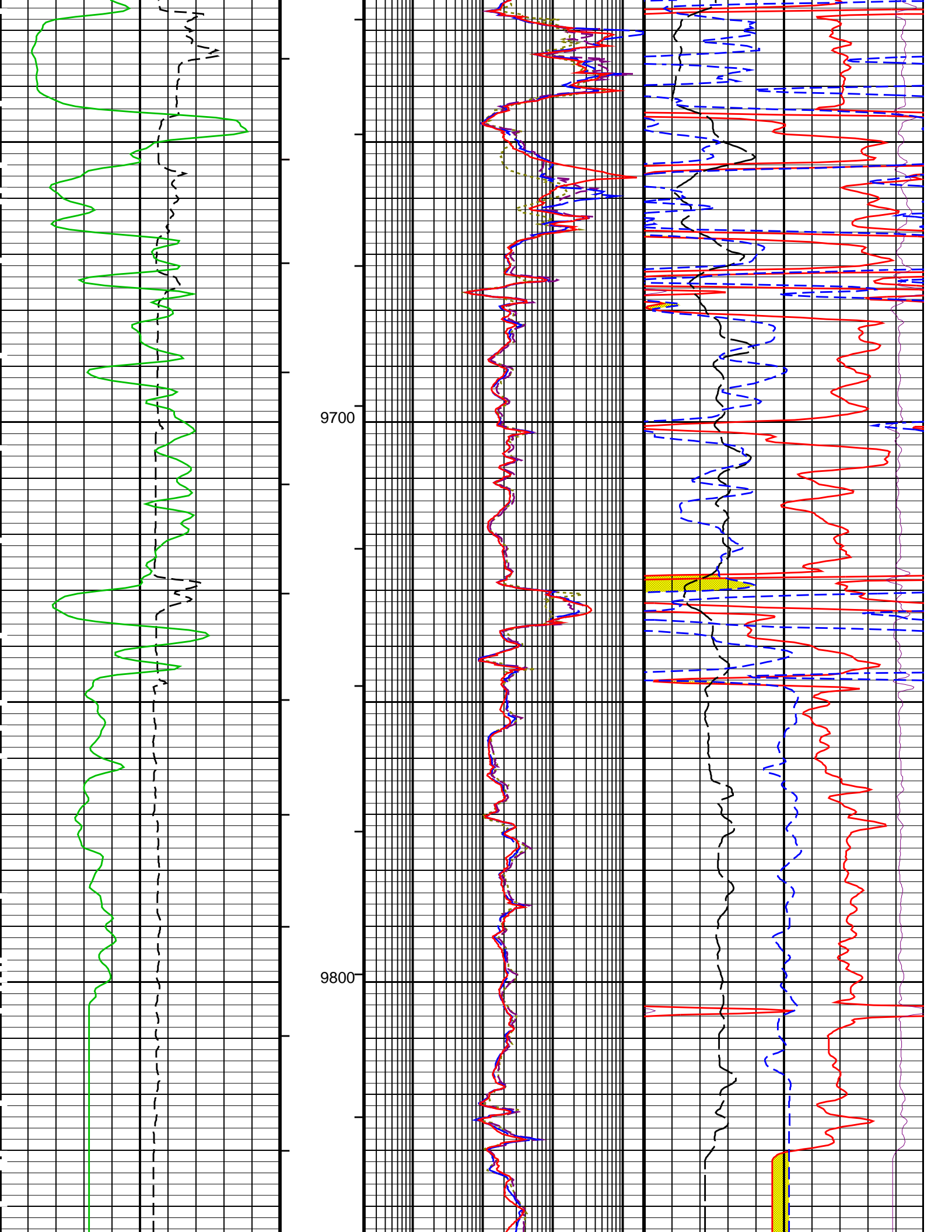












Caliper (CALI) (IN)			TBI 20 Inch Investigation (TBIT20) (OHMM)			DPHI (DPHI) (V/V)		
4		14	0.2		2000	0.3		-0.1
Gamma Ray (GR) (GAPI)			TBI 30 Inch Investigation (TBIT30) (OHMM)			DRHO (DRHO) (G/C3)		
0		150	0.2		2000	-1.8		0.2
			TBI 60 Inch Investigation (TBIT60) (OHMM)			PEF (PEF) (-----)		
			0.2		2000	0		10
			TBI 90 Inch Investigation (TBIT90) (OHMM)			TNPH (TNPH) (%)		
			0.2		2000	30		-10

PIP SUMMARY

- Integrated Cement Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Hole Volume Minor Pip Every 10 F3

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
TBT-A: ThruBit String			
	Description of this pass		
BHS	Borehole Status	OPEN	
BSCO	Borehole Salinity Correction Enabled? (for TBN)	No	
CSAL	Cement Salinity	0	PPM
CSID	Casing Size I.D.	9.001	IN
DHC	Density Hole Correction	CALIPER	
FD	Fluid Density	1	G/C3
FSAL	Formation Salinity	0	PPM
FSCO	Formation Salinity Correction Enabled? (for TBN)	No	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MDEN	Matrix Density	2.65	G/C3
MT	Mud Type (for TBN and TBI correction)	WBM	
MWCO	Mud Weight Correction Enabled? (for TBN)	No	
SOCO	Stand-Off Correction Enabled? (for TBN)	No	
SOFF	TBN Standoff	0	IN
TBD_CAL_BLOCK	TBD Calibration Block Type	Schlumberger	
TBD_SPIKE_REJECT	TBD Spike Detection Option	Correct	
TBD_SPIKE_THRESHOLD	TBD Attenuation Change Threshold for Spike Detection	5	%
TBI_ALGO	TBI Algorithm Selection	AIT	
TBI_BHC_MODE	Borehole Correction Mode (for TBI)	Solve_For_Standoff	
TBI_BHC_OP	Borehole Correction Option (for TBI)	Caliper	
TBI_CALTYP	TBI Mastercal Type	Schlumberger	
TBI_REPL_ARRAY_DEST	TBI: Replace This Array	None	
TBI_REPL_ARRAY_SOURCE	TBI: With This Array	None	
TBI_RMUD_SRC	RMUD Source for Borehole Correction (for TBI)	Data_Channel_RMUD	
TBI_TC_OP	Induction Temperature Correction Option	Lower	
TBN_ALGO	Porosity Algorithm	Schmid_McKeon	
TBN_BHC_OP	Borehole Correction Option (for TBN)	Caliper	
TBN_CAL_TANK	TBN Calibration Tank Type	Schlumberger	
TBN_FILTER	Filter Length	3_point	
TBN PRES_OP	Pressure Correction Enabled? (for TBN)	No	
TBN_TEMP_OP	Temperature Correction Enabled? (for TBN)	No	
TBN_WPRE	Well Pressure (for TBN)	0	PSIG
WMUD	Mud Weight	8.345	LB/G
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
FCD	Future Casing (Outer) Diameter	4.5	IN
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
System and Miscellaneous			
BSAL	Borehole Salinity	1500.00	PPM
CSIZ	Current Casing Size	9.625	IN
DO	Depth Offset for Playback	0.0	FT
MST	Mud Sample Temperature	75.00	DEGF
PP	Playback Processing	NORMAL	
RMB	Resistivity of Mud - BHT	0.5725	OHMM
RMS	Resistivity of Mud Sample	1.3650	OHMM
TD	Total Depth	-50000	FT

Format: TB_TCOM Vertical Scale: 5" per 100'

Graphics File Created: 27-Dec-2017 14:44

OP System Version: 19C2-270

TBT-A	SRPC-5318-ThruBit-SP3.4					
Input DLIS Files						
DEFAULT	ThruBit_005PUP	FN:4	PRODUCER	27-Dec-2017 14:37	9849.9 FT	202.4 FT
Output DLIS Files						
DEFAULT	ThruBit_006PUP	FN:5	PRODUCER	27-Dec-2017 14:44		



Calibrations

MAXIS Field Log

Calibration and Check Summary							
Measurement	Nominal	Master	Before	After	Change	Limit	Units
ThruBit String Master Calibration – TBI Master Calibration Sonde Errors							
Master: 13-Dec-2017 6:17							
Freq 2, A1, R	-249.000	-250.509	--	--	--	--	
Freq 2, A1, X	150.000	-30.6213	--	--	--	--	
Freq 2, A2, R	-98.0000	-97.1657	--	--	--	--	
Freq 2, A2, X	160.000	-63.2901	--	--	--	--	
Freq 2, A3, R	-23.0000	-22.2737	--	--	--	--	
Freq 2, A3, X	-20.0000	-96.3707	--	--	--	--	
Freq 2, A4, R	-19.0000	-22.2689	--	--	--	--	
Freq 2, A4, X	100.000	40.8593	--	--	--	--	
Freq 2, A5, R	-20.0000	-20.6904	--	--	--	--	
Freq 2, A5, X	-25.0000	-51.4674	--	--	--	--	
ThruBit String Master Calibration – TBI Master Calibration COMPLEX GAINS							
Master: 13-Dec-2017 6:17							
Freq 2, R – 0	1.000	1.011	--	--	--	--	
Freq 2, R – 1	1.000	1.040	--	--	--	--	
Freq 2, R – 2	1.000	1.003	--	--	--	--	
Freq 2, R – 3	1.000	1.028	--	--	--	--	
Freq 2, R – 4	1.000	1.026	--	--	--	--	
Freq 2, X – 0	0	-0.02260	--	--	--	--	
Freq 2, X – 1	0	-0.003239	--	--	--	--	
Freq 2, X – 2	0	0.009304	--	--	--	--	
Freq 2, X – 3	0	0.007065	--	--	--	--	
Freq 2, X – 4	0	0.007129	--	--	--	--	
ThruBit String Master Calibration – TBD Caliper Master Calibration							
Master: 3-Dec-2017 5:32							
Caliper 12in Ring	1949.8	1937.4	--	--	--	--	IN
Caliper 9in Ring	2096.7	2093.7	--	--	--	--	IN
Caliper 6in Ring	2285.7	2248.1	--	--	--	--	IN
ThruBit String Master Calibration – TBD Density Master Calibration							
Master: 3-Dec-2017 5:32							
Aluminium Density	2.607	2.607	--	--	--	--	G/C3
Magnesium Density	1.752	1.752	--	--	--	--	G/C3
LS1 Background	143.00	126.24	--	--	--	--	CPS
SS1 Background	143.00	113.91	--	--	--	--	CPS
LS4 Background	30.00	27.26	--	--	--	--	CPS
SS1 Aluminium	7900.00	6790.88	--	--	--	--	CPS
LS1 Aluminium	1220.0	1018.1	--	--	--	--	CPS
SS1 Magnesium	13160.0	11100.1	--	--	--	--	CPS
LS4 Aluminium	830.00	718.51	--	--	--	--	CPS
SS Slope	1.645	1.696	--	--	--	--	
LS1 Block + Sleeve	50000	4332.1	--	--	--	--	CPS
LS Slope	0.4150	0.4242	--	--	--	--	

LS4 Block + Sleeve	50000	1726.7	---	---	---	---	CPS
Pef K Factor	4.840	11.96	---	---	---	---	
LS1 Magnesium	8260.00	6719.30	---	---	---	---	CPS
Pef B Factor	-0.5550	-0.3326	---	---	---	---	

ThruBit String Master Calibration – TBD Density Master Calibration. Ti Window, Schlumberger blocks

Master: 3-Dec-2017 5:32

SS1 Background	143.00	113.91	---	---	---	---	CPS
SS2 Background	38.0000	29.8065	---	---	---	---	CPS
SS3 Background	23.0000	18.2526	---	---	---	---	CPS
SS4 Background	31.0000	25.8623	---	---	---	---	CPS
LS1 Background	143.00	126.24	---	---	---	---	CPS
LS2 Background	37.0000	31.6390	---	---	---	---	CPS
LS3 Background	22.0000	19.7235	---	---	---	---	CPS
LS4 Background	30.00	27.26	---	---	---	---	CPS
SS1 Aluminium	7900.00	6790.88	---	---	---	---	CPS
SS2 Aluminium	4050.00	3647.24	---	---	---	---	CPS
SS3 Aluminium	3420.00	3166.31	---	---	---	---	CPS
SS4 Aluminium	3360.0000	3158.7793	---	---	---	---	CPS
LS1 Aluminium	1220.0	1018.1	---	---	---	---	CPS
LS2 Aluminium	1140.00	963.673	---	---	---	---	CPS
LS3 Aluminium	1080.00	935.014	---	---	---	---	CPS
LS4 Aluminium	830.00	718.51	---	---	---	---	CPS
Magnesium RHOS	1.6700	1.6714	---	---	---	---	
Magnesium RHOLS	1.6880	1.6920	---	---	---	---	
Magnesium RHOB	1.7040	1.7094	---	---	---	---	
Magnesium PEF	2.5210	2.5641	---	---	---	---	
Magnesium + Sleeve RHOS	2.1520	2.1374	---	---	---	---	
Magnesium + Sleeve RHOLS	1.8550	1.8582	---	---	---	---	
Magnesium + Sleeve RHOB	1.6060	1.6283	---	---	---	---	
Magnesium + Sleeve PEF	6.8000	8.4452	---	---	---	---	

ThruBit String Master Calibration – Thermal Neutron Master Calibration

Master: 29-Nov-2017 20:16

TNF, Background	1.0	0.24	---	---	---	---	CPS
TNN, Background	1.0	0.21	---	---	---	---	CPS
TNF, Tank	27990	32620	---	---	---	---	CPS
TNN, Tank	69600	105280	---	---	---	---	CPS
TNF, Tank + Al Sleeve	1750.0	1897.3	---	---	---	---	CPS
TNN, Tank + Al Sleeve	18350.0	22237.3	---	---	---	---	CPS
Tank + Al Sleeve Ratio	11.128	11.720	---	---	---	---	
Tank + Al Sleeve Porosity	15.19	15.19	---	---	---	---	PU
Tank, Ratio	2.6300	3.2275	---	---	---	---	
Tank, Temperature	70.0	57.0	---	---	---	---	DEGF

ThruBit String Master Calibration – TMG Accelerometer Calibration

Master: 25-Dec-2017 10:39

Minimum Ax, m/s2	-9.810	-9.611	---	---	---	---	
Maximum Ax, m/s2	9.810	9.807	---	---	---	---	
Minimum Ay, m/s2	-9.810	-9.709	---	---	---	---	
Maximum Ay, m/s2	9.810	9.709	---	---	---	---	
Minimum Az, m/s2	0	-0.02858	---	---	---	---	
Maximum Az, m/s2	9.810	9.748	---	---	---	---	
RB Offset, degrees	0	-13.47	---	---	---	---	

ThruBit String Master Calibration – TMG Gamma-Ray Calibration

Master: 25-Dec-2017 16:56











GR Background	30.00	64.54	---	---	---	---	GAPI
GR Jig-Background	160.0	185.4	---	---	---	---	GAPI



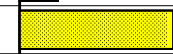







ThruBit String / Equipment Identification




Primary Equipment:


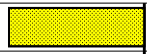
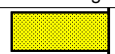
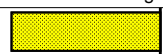

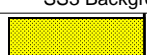




Induction Resistivity	TBI – A
Density	TBD – A
Gamma-Ray Logging Source	GGLS – FZ
Thermal Neutron	TBN – A
Neutron Logging Source	NNLS – EWA
Telemetry Memory GR	TMG – A
Telemetry	WCIB –
Battery 2	TBAT –

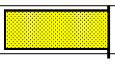
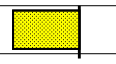


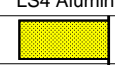







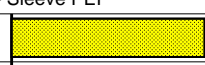

Auxiliary Equipment:

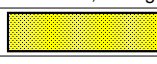
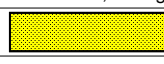

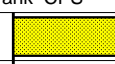






Freq 2, A1, R	Value	Nominal	Freq 2, A1, X	Value	Nominal
	-250.509	-249.000		-30.6213	150.000
-336.000 (Minimum)	-186.000 (Maximum)		-375.000 (Minimum)	675.000 (Maximum)	
(Nominal)			(Nominal)		
Freq 2, A2, R	Value	Nominal	Freq 2, A2, X	Value	Nominal
	-97.1657	-98.0000		-63.2901	160.000
-138.000 (Minimum)	-76.0000 (Maximum)		-100.000 (Minimum)	425.000 (Maximum)	
(Nominal)			(Nominal)		
Freq 2, A3, R	Value	Nominal	Freq 2, A3, X	Value	Nominal
	-22.2737	-23.0000		-96.3707	-20.0000
-31.0000 (Minimum)	-13.0000 (Maximum)		-325.000 (Minimum)	250.000 (Maximum)	
(Nominal)			(Nominal)		
Freq 2, A4, R	Value	Nominal	Freq 2, A4, X	Value	Nominal
	-22.2689	-19.0000		40.8593	100.000
-28.0000 (Minimum)	-7.00000 (Maximum)		-75.0000 (Minimum)	275.000 (Maximum)	
(Nominal)			(Nominal)		
Freq 2, A5, R	Value	Nominal	Freq 2, A5, X	Value	Nominal
	-20.6904	-20.0000		-51.4674	-25.0000
-27.0000 (Minimum)	-10.0000 (Maximum)		-125.000 (Minimum)	100.000 (Maximum)	
(Nominal)			(Nominal)		
Master: 13-Dec-2017 6:17					





ThruBit String Master Calibration					
TBI Master Calibration COMPLEX GAINS					
Freq 2, R	Value	Nominal	Freq 2, X	Value	Nominal
	1.011	1.000		-0.02260	0
	1.040	1.000		-0.003239	0
	1.003	1.000		0.009304	0
	1.028	1.000		0.007065	0
	1.026	1.000		0.007129	0
0.9500 (Minimum)	1.050 (Maximum)		-0.05000 (Minimum)	0.05000 (Maximum)	
(Nominal)			(Nominal)		
Master: 13-Dec-2017 6:17					




ThruBit String Master Calibration								
TBD Caliper Master Calibration								
Caliper 12in Ring IN	Value	Nominal	Caliper 9in Ring IN	Value	Nominal	Caliper 6in Ring IN	Value	Nominal
	1937.4	1949.8		2093.7	2096.7		2248.1	2285.7
1799.8 (Minimum)	2099.8 (Maximum)		1946.7 (Minimum)	2246.7 (Maximum)		2135.7 (Minimum)	2435.7 (Maximum)	
(Nominal)			(Nominal)			(Nominal)		
Master: 3-Dec-2017 5:32								



ThruBit String Master Calibration					
TBD Density Master Calibration. Ti Window, Schlumberger blocks					
LS1 Background CPS	Value	Nominal	SS1 Background CPS	Value	Nominal
	126.24	143.00		113.91	143.00
100.00 (Minimum)	186.00 (Maximum)		100.00 (Minimum)	186.00 (Maximum)	
(Nominal)			(Nominal)		
LS2 Background CPS	Value	Nominal	SS2 Background CPS	Value	Nominal
	31.6390	37.0000		29.8065	38.0000
26.0000 (Minimum)	48.0000 (Maximum)		27.0000 (Minimum)	50.0000 (Maximum)	
(Nominal)			(Nominal)		
LS3 Background CPS	Value	Nominal	SS3 Background CPS	Value	Nominal
	19.7235	22.0000		18.2526	23.0000
15.0000 (Minimum)	29.0000 (Maximum)		16.0000 (Minimum)	30.0000 (Maximum)	
(Nominal)			(Nominal)		
LS4 Background CPS	Value	Nominal	SS4 Background CPS	Value	Nominal
	27.26	30.00		25.8623	31.0000
20.00 (Minimum)	40.00 (Maximum)		22.0000 (Minimum)	40.0000 (Maximum)	
(Nominal)			(Nominal)		
LS1 Aluminium CPS	Value	Nominal	SS1 Aluminium CPS	Value	Nominal
	1018.1	1220.0		6790.88	7900.00

850.00 (Minimum)	(Nominal)	1590.0 (Maximum)		5530.00 (Minimum)	(Nominal)	10270.0 (Maximum)	
LS2 Aluminium CPS		Value	Nominal	SS2 Aluminium CPS		Value	Nominal
		963.673	1140.00			3647.24	4050.00
800.000 (Minimum)	(Nominal)	1480.00 (Maximum)		2840.00 (Minimum)	(Nominal)	5270.00 (Maximum)	
LS3 Aluminium CPS		Value	Nominal	SS3 Aluminium CPS		Value	Nominal
		935.014	1080.00			3166.31	3420.00
760.000 (Minimum)	(Nominal)	1400.00 (Maximum)		2400.00 (Minimum)	(Nominal)	4450.00 (Maximum)	
LS4 Aluminium CPS		Value	Nominal	SS4 Aluminium CPS		Value	Nominal
		718.51	830.00			3158.7793	3360.0000
580.00 (Minimum)	(Nominal)	1080.0 (Maximum)		2350.0000 (Minimum)	(Nominal)	3700.0000 (Maximum)	
Magnesium RHOLS		Value	Nominal	Magnesium RHOSS		Value	Nominal
		1.6920	1.6880			1.6714	1.6700
1.6630 (Minimum)	(Nominal)	1.7130 (Maximum)		1.6350 (Minimum)	(Nominal)	1.7050 (Maximum)	
Magnesium PEF		Value	Nominal	Magnesium RHOB		Value	Nominal
		2.5641	2.5210			1.7094	1.7040
2.3700 (Minimum)	(Nominal)	2.6700 (Maximum)		1.6870 (Minimum)	(Nominal)	1.7210 (Maximum)	
Magnesium + Sleeve RHOLS		Value	Nominal	Magnesium + Sleeve RHOSS		Value	Nominal
		1.8582	1.8550			2.1374	2.1520
1.7950 (Minimum)	(Nominal)	1.9150 (Maximum)		2.0920 (Minimum)	(Nominal)	2.2120 (Maximum)	
Magnesium + Sleeve PEF		Value	Nominal	Magnesium + Sleeve RHOB		Value	Nominal
		8.4452	6.8000			1.6283	1.6060
5.1000 (Minimum)	(Nominal)	8.5000 (Maximum)		1.5780 (Minimum)	(Nominal)	1.6340 (Maximum)	
Master: 3-Dec-2017 5:32							

ThruBit String Master Calibration							
Thermal Neutron Master Calibration							
TNF, Background CPS		Value	Nominal	TNN, Background CPS		Value	Nominal
		0.24	1.0			0.21	1.0
0 (Minimum)	(Nominal)	2.0 (Maximum)		0 (Minimum)	(Nominal)	2.0 (Maximum)	
TNF, Tank CPS		Value	Nominal	TNN, Tank CPS		Value	Nominal
		32620	27990			105280	69600
9330 (Minimum)	(Nominal)	56000 (Maximum)		23200 (Minimum)	(Nominal)	139200 (Maximum)	
TNF, Tank + Al Sleeve CPS		Value	Nominal	TNN, Tank + Al Sleeve CPS		Value	Nominal
		1897.3	1750.0			22237.3	18350.0
580.00 (Minimum)	(Nominal)	3500.0 (Maximum)		6100.00 (Minimum)	(Nominal)	36700.0 (Maximum)	
Tank + Al Sleeve Ratio		Value	Nominal	Tank + Al Sleeve Porosity PU		Value	Nominal
		11.720	11.128			15.19	15.19
10.528 (Minimum)	(Nominal)	11.728 (Maximum)		14.69 (Minimum)	(Nominal)	15.69 (Maximum)	
Tank, Ratio		Value	Nominal	Tank, Temperature DEGF		Value	Nominal
		3.2275	2.6300			57.0	70.0
2.0300 (Minimum)	(Nominal)	3.2300 (Maximum)		20.0 (Minimum)	(Nominal)	120 (Maximum)	
Master: 29-Nov-2017 20:16							

ThruBit String Master Calibration							
TMG Accelerometer Calibration							
Minimum Ax, m/s2		Value	Nominal	Maximum Ax, m/s2		Value	Nominal
		-9.611	-9.810			9.807	9.810
-10.81 (Minimum)	(Nominal)	-8.810 (Maximum)		8.810 (Minimum)	(Nominal)	10.81 (Maximum)	
Minimum Ay, m/s2		Value	Nominal	Maximum Ay, m/s2		Value	Nominal
		-9.709	-9.810			9.709	9.810
-10.81 (Minimum)	(Nominal)	-8.810 (Maximum)		8.810 (Minimum)	(Nominal)	10.81 (Maximum)	

Minimum Az, m/s2			Value	Nominal	Maximum Az, m/s2			Value	Nominal
			-0.02858	0				9.748	9.810
-1.000	(Nominal)	1.000			8.810	(Nominal)	10.81		
(Minimum)		(Maximum)			(Minimum)		(Maximum)		
RB Offset, degrees			Value	Nominal					
			-13.47	0					
-360.0	(Nominal)	360.0							
(Minimum)		(Maximum)							
Master: 25-Dec-2017 10:39									

ThruBit String Master Calibration						
TMG Gamma-Ray Calibration						
GR Background GAPI			Value	Nominal	GR Jig-Background GAPI	
			64.54	30.00		
0 (Minimum)	(Nominal)	120.0 (Maximum)			128.0 (Minimum)	192.0 (Maximum)
Master: 25-Dec-2017 16:56						

Company: **TEP ROCKY MOUNTAIN LLC**

Schlumberger

Well: **SR 513-12**

Field: **Rulison**

County: **Garfield**

State: **Colorado**

Triple Combo