

Schlumberger

Company: **Orr Energy LLC**

Well: **Lowe 31-44D**

Field: **Wattenberg**

County: **Weld**

State: **Colorado**

Well: Lowe 31-44D

County: **Weld**

Platform Express Triple Combo			
LOCATION			
SESE Sec 31, T6N, R66W SHL: 504' FSL, 217' FEL BHL: 644' FSL, 716' FEL (projected)	Elev.: K.B. 4727 ft G.L. 4724 ft D.F. 4726 ft		
Permanent Datum: _____ Log Measured From: _____ Drilling Measured From: _____	Ground Level _____ Kelly Bushing _____ Kelly Bushing _____	Elev.: 4721 ft _____ 6.0 ft above Perm. Datum	
API Serial No. 05-125-23761-0C	Section 31	Township 6N	Range 66W
County: Weld	Field: Wattenberg	Location: SESE Sec 31, T6N, R66W	Well: Lowe 31-44D
Company: Orr Energy LLC			

[illegible]

Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth		@	
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density	Viscosity		
Fluid Loss	PH		
Source Of Sample			
RM @ Measured Temperature		@	
RMF @ Measured Temperature		@	
RMC @ Measured Temperature		@	
Source RMF	RMC		
RM @ MRT	RMF @ MRT	@	@
Maximum Recorded Temperatures			
Circulation Stopped	Time		
Logger On Bottom	Time		
Unit Number	Location		
Recorded By			
Witnessed By			













OTHER SERVICES1	OTHER SERVICES2
OS1: GPIT	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
1. Tool run as per tool sketch	
2. First run in hole	
3. Matrix changes annotated on porosity log.	
Rig: Lags 111	

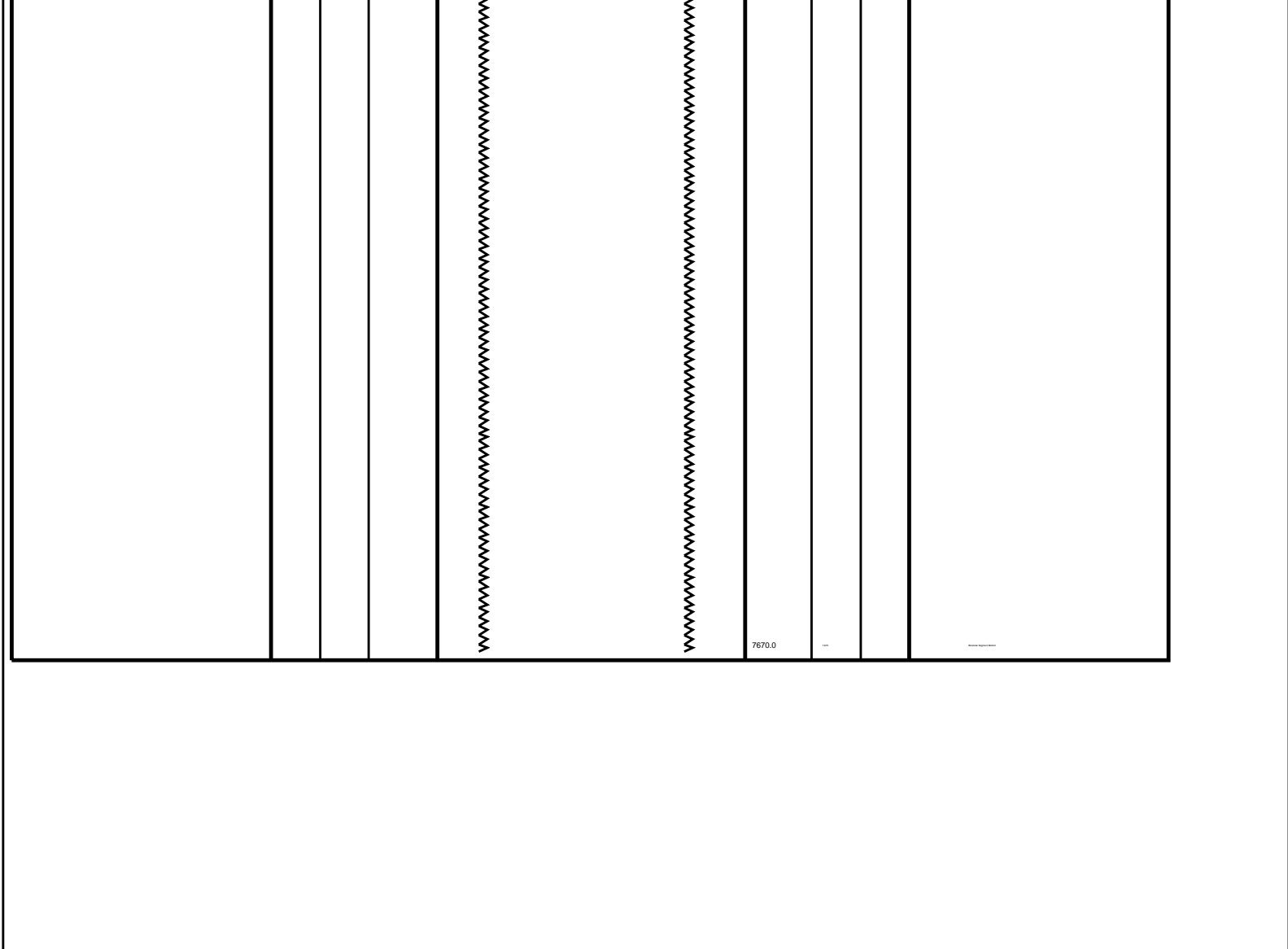
Crew: Kent Holbeck & Sam Hopper	

RUN 1			RUN 2		
SERVICE ORDER #:		11643011	SERVICE ORDER #:		
PROGRAM VERSION:		14C0-302	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

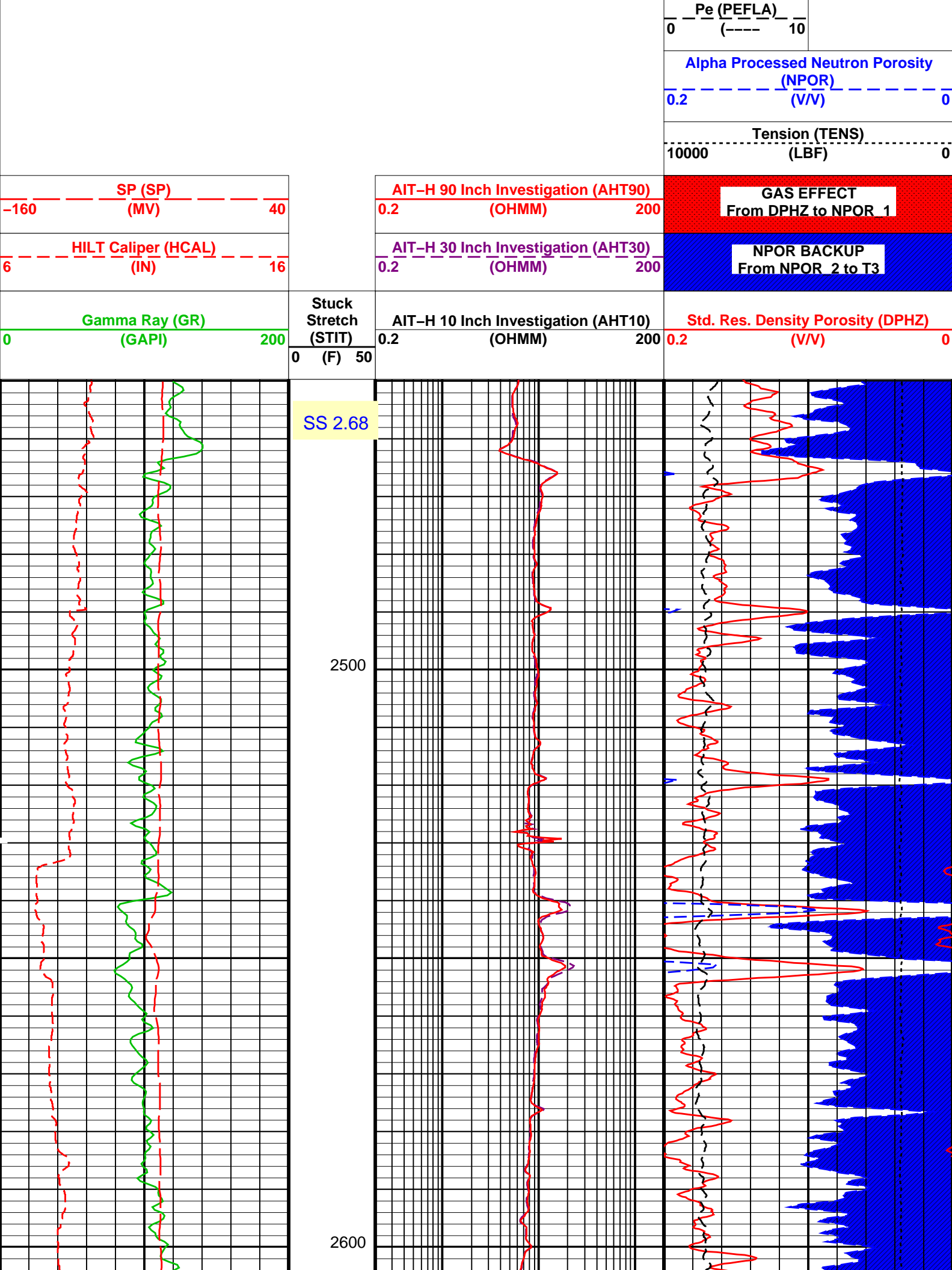
SURFACE EQUIPMENT	
WITM (DTS)-A	
GSR-U/Y	
NCT-B	
CNB-AB	
NCS-VB	

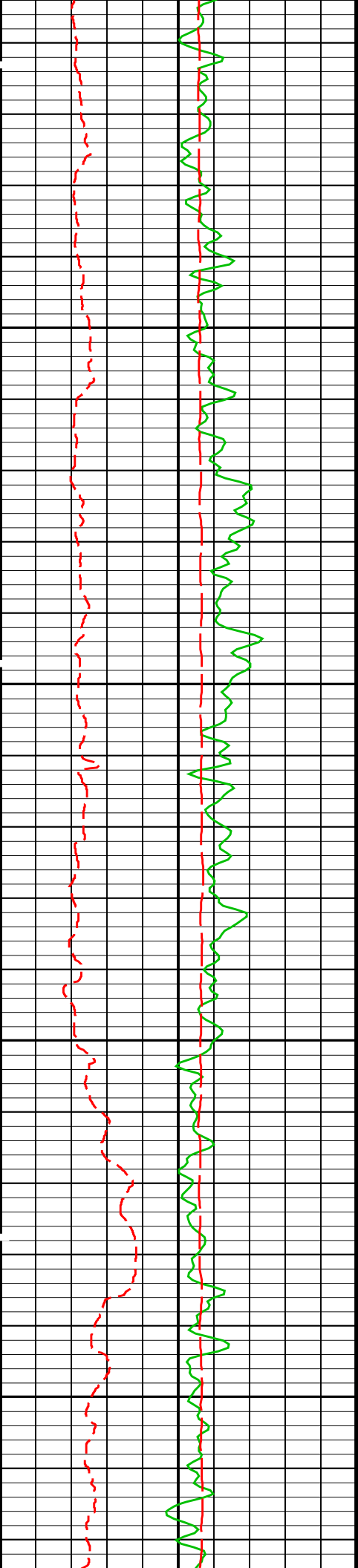
DOWNHOLE EQUIPMENT			
LEH-QT			55.6
LEH-QT			
DTC-H	CTEM		51.7
ECH-KC	TelStatus		52.6
DTCH0-A	ToolStatu		49.6
DTCH1-A			
AH-NM			49.6
AH-NM			
GPIT-C			41.6
GPIC-C			
GPIH-B			
HILTB-FTB	HGNS HTEM		37.6
HGNSD-B 863	HMCA		36.9
HMCA	HGNS Gamm		37.6
HGNH			
NLS-KL			
NSR-F 2539			
HACCZ			
HCNT	HGNS Neut		31.1
HGR	HGNS Neut		30.6
HRCC-B 1873			
HRMS-B 1822			
HRGD-B 885	HGNS sens		28.2
GLS-VJ 5094			
MCFL Device			
HILT Nucl. LS			
HILT Nucl. SS			
HILT Nucl. BS	HRCC cart		24.2
AIT-H			
AHIS-BA 236			



Company: Orr Energy LLC Well: Lowe 31-44D

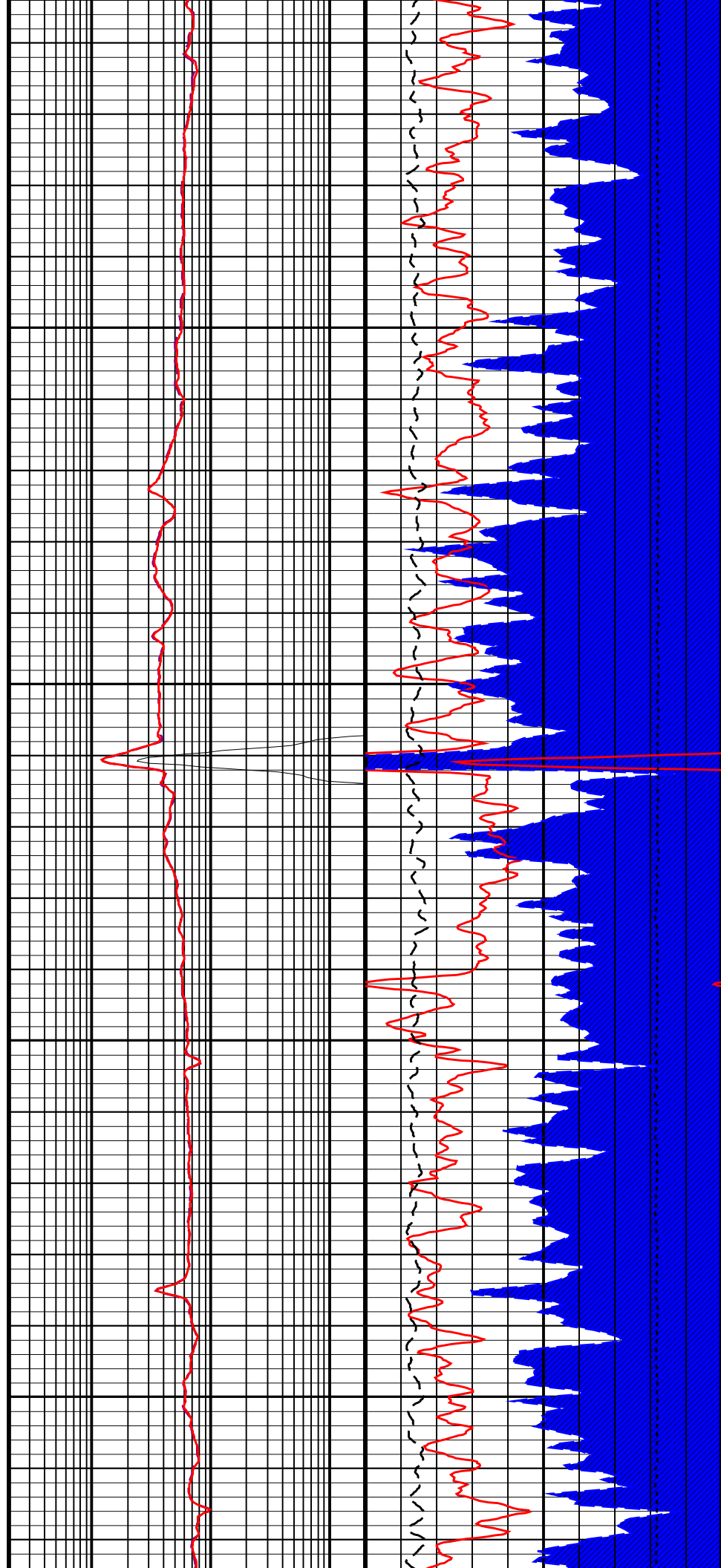
Input DLIS Files						
24-Jan-2007 22:10						
Output DLIS Files						
DEFAULT	AIT_TLD_MCFL_CNL_006PUP	FN:4	PRODUCER	24-Jan-2007 22:11	7710.0 FT	2355.0 FT
OP System Version: 14C0-302						
MCM						
HILTB-FTB	SRPC-3193-Q3_2006	GPIT-C		SRPC-3193-Q3_2006		
DTC-H	SRPC-3193-Q3_2006					
Changed Parameter Summary						
DLIS Name	New Value		Previous Value		Depth & Time	
MATR	SANDSTONE		LIMESTONE		7710.0 22:11:59	
	SANDSTONE		SANDSTONE		7522.0 22:12:05	
	LIMESTONE		SANDSTONE		7054.0 22:12:20	
	SANDSTONE		LIMESTONE		6757.0 22:12:34	
MDEN	2.65	G/C3	2.71	G/C3	7710.0 22:11:59	
	2.68	G/C3	2.65	G/C3	7522.0 22:12:05	
	2.71	G/C3	2.68	G/C3	7054.0 22:12:20	
	2.68	G/C3	2.71	G/C3	6757.0 22:12:34	
PIP SUMMARY						
Time Mark Every 60 S						

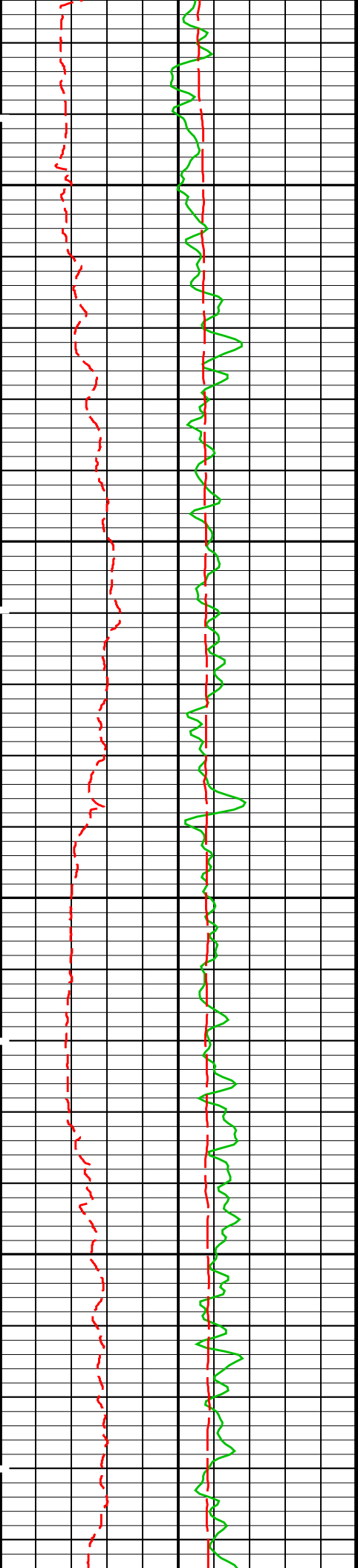




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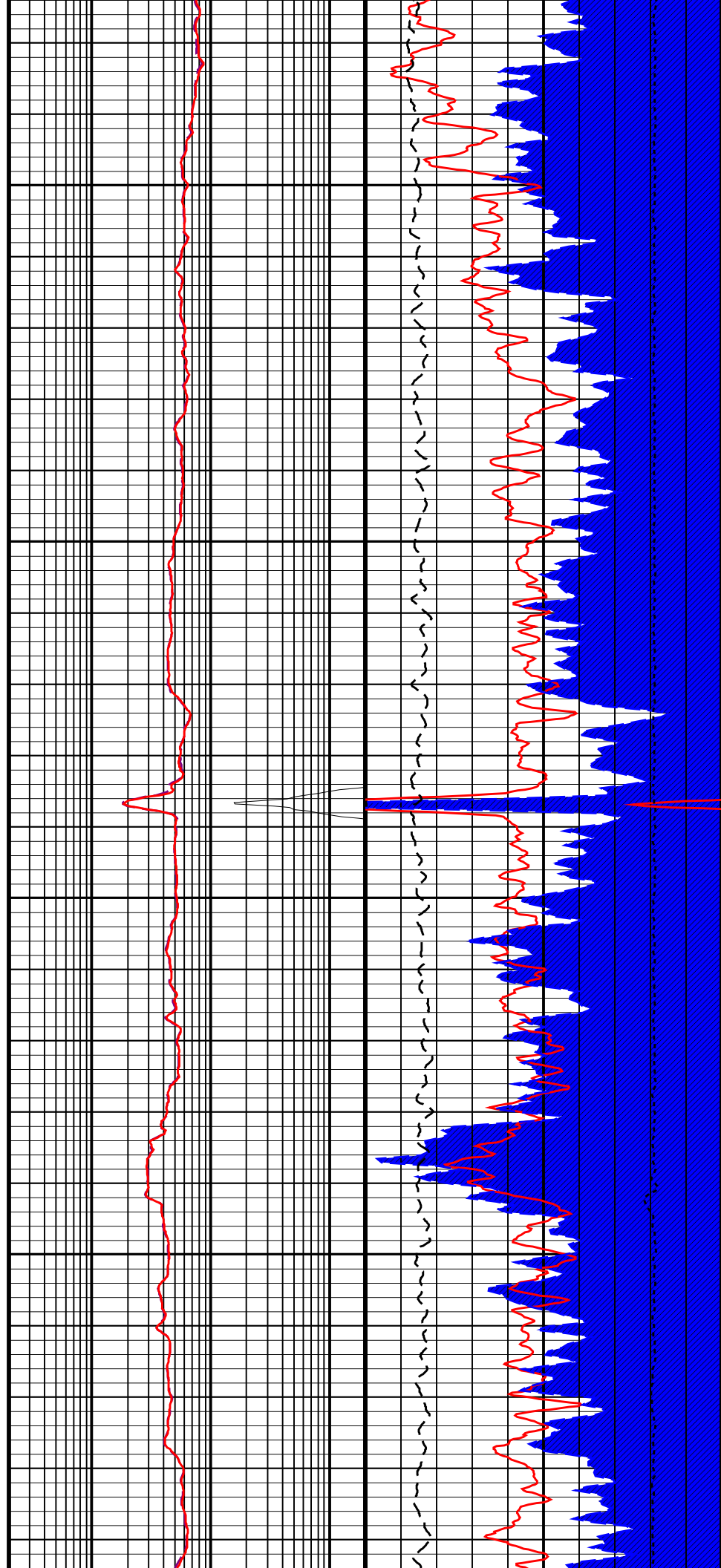
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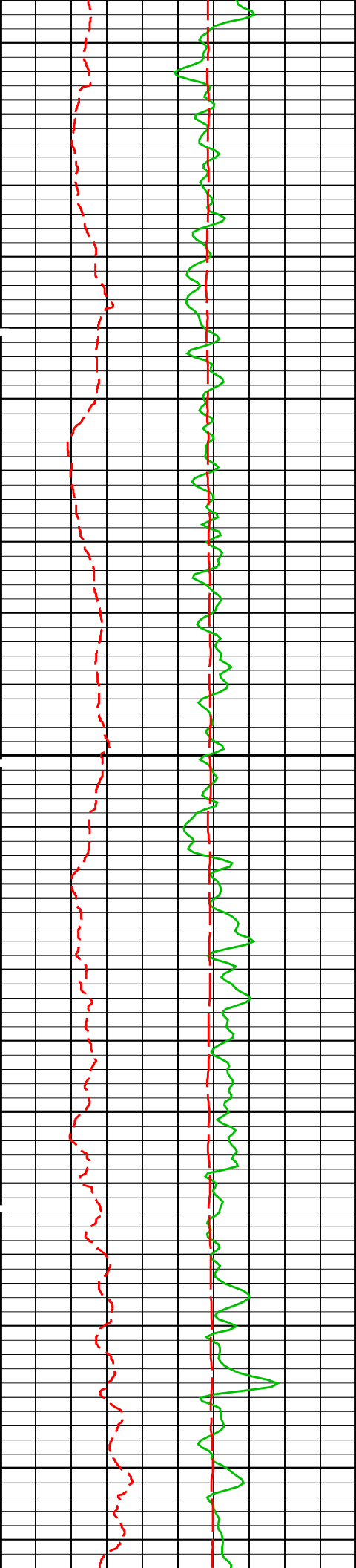




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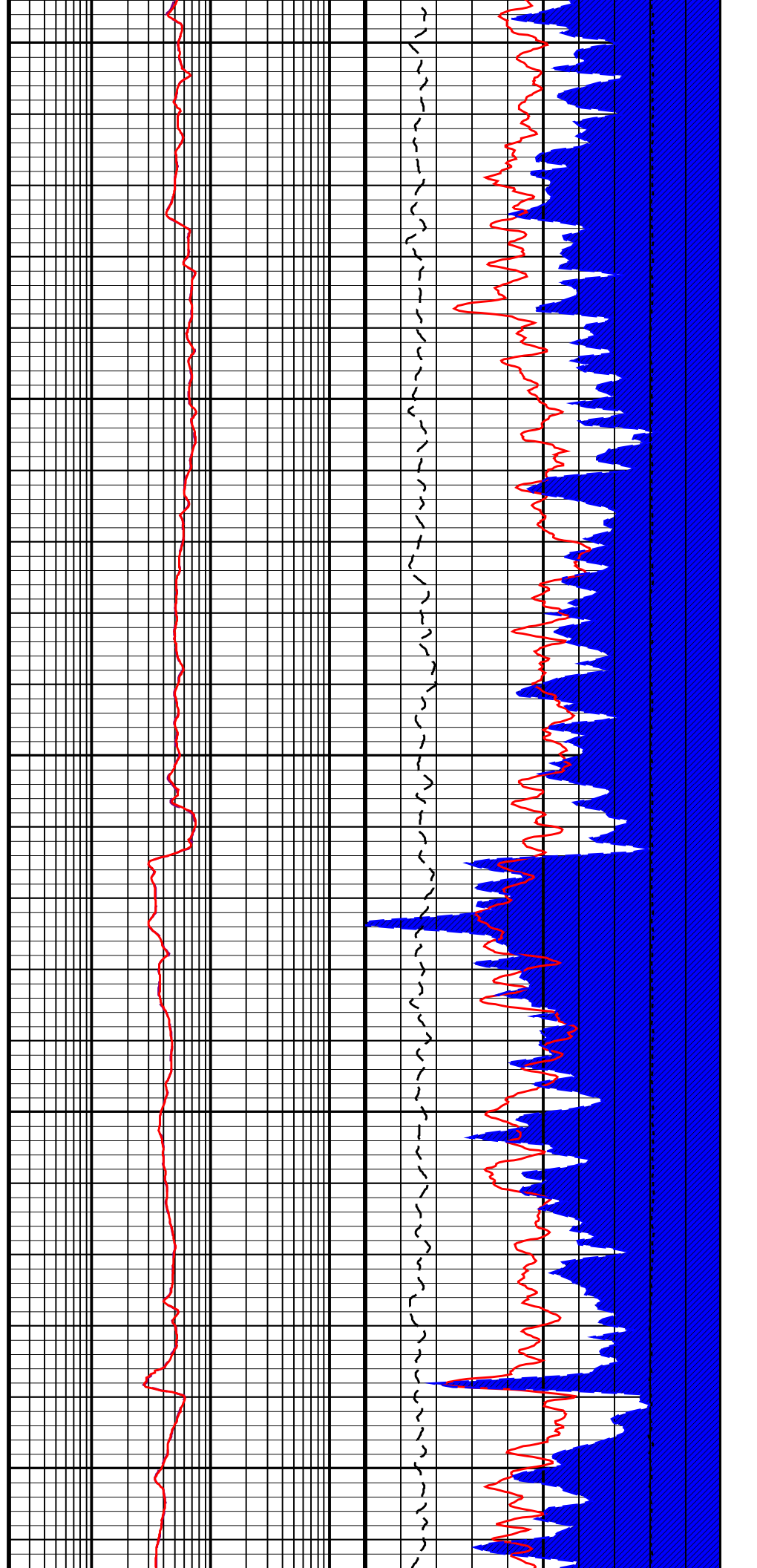
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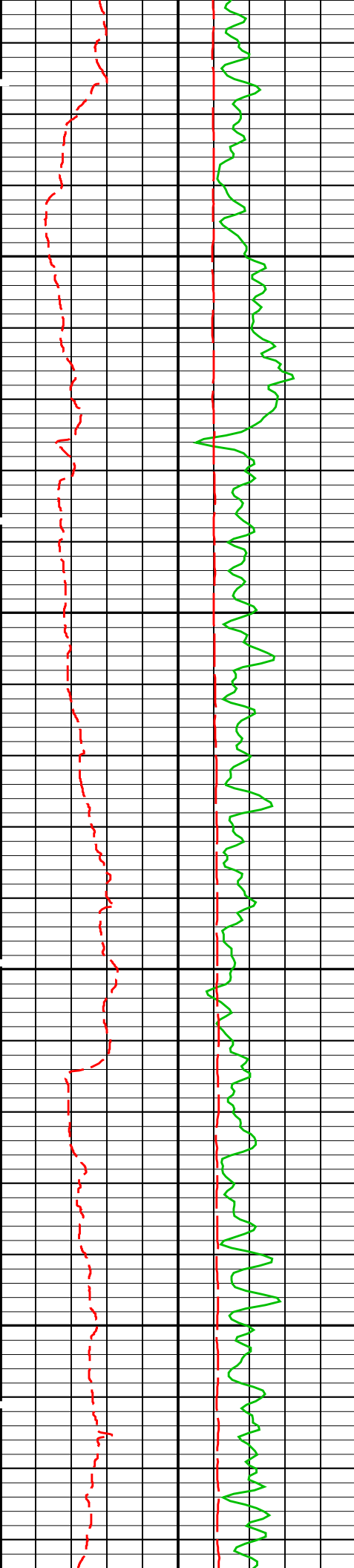




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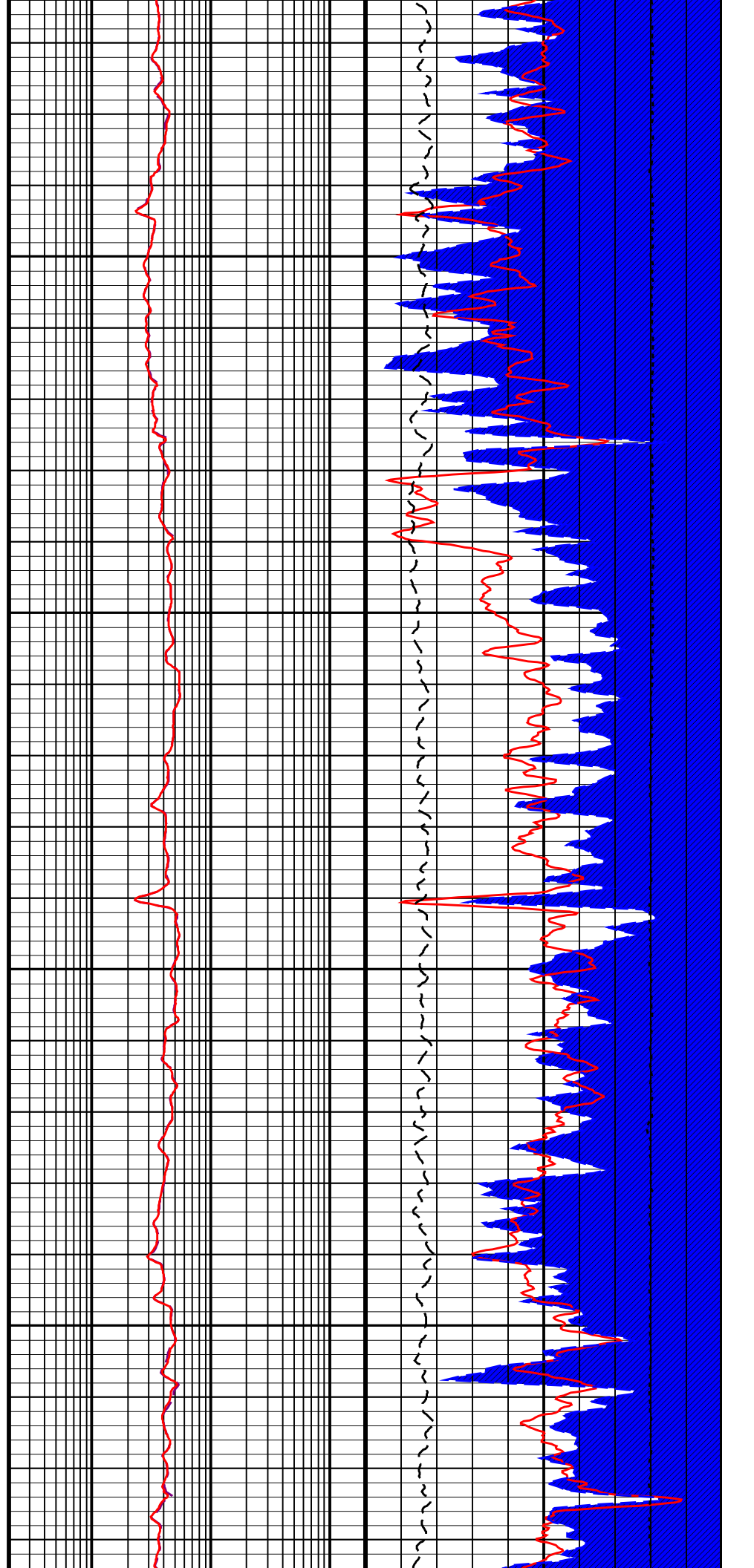
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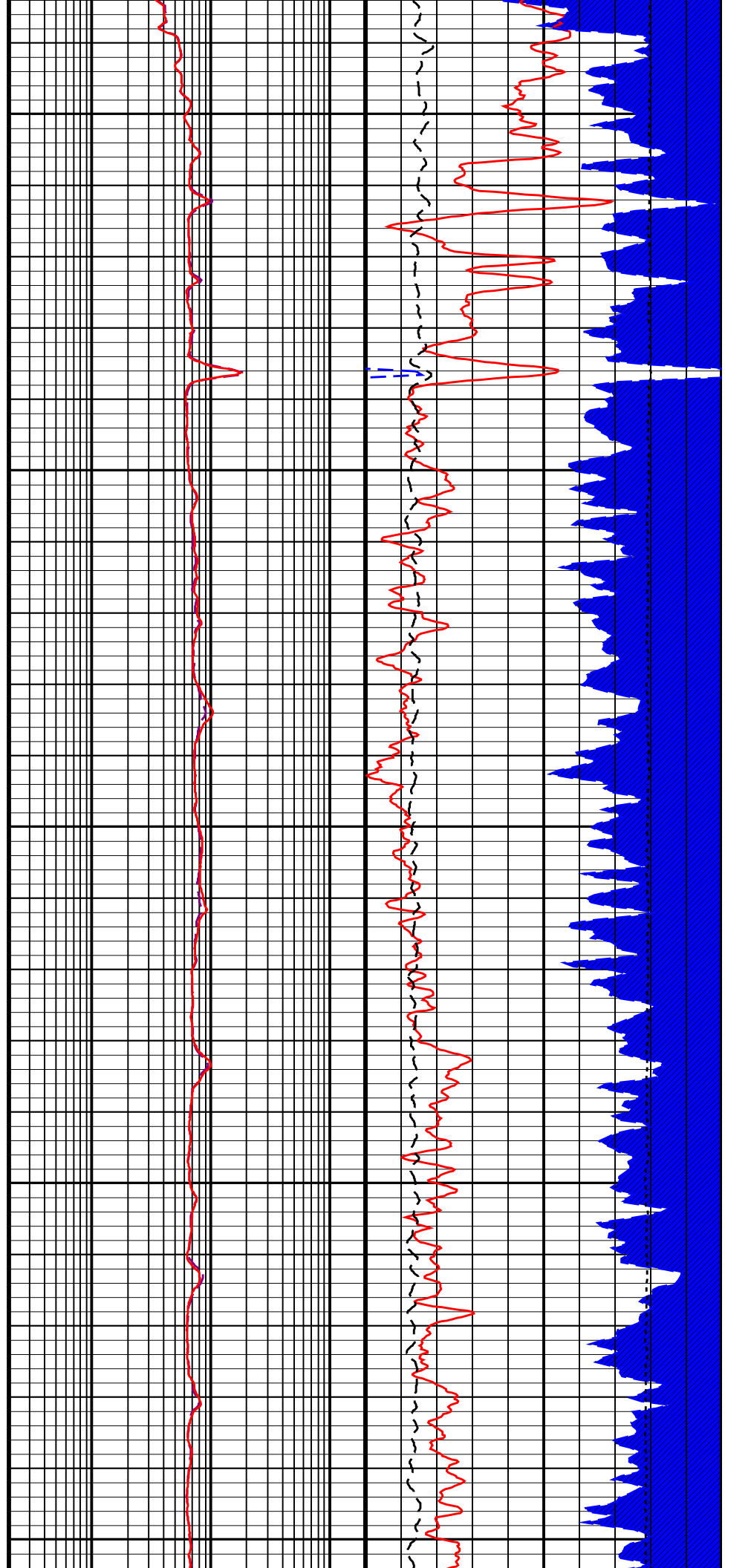


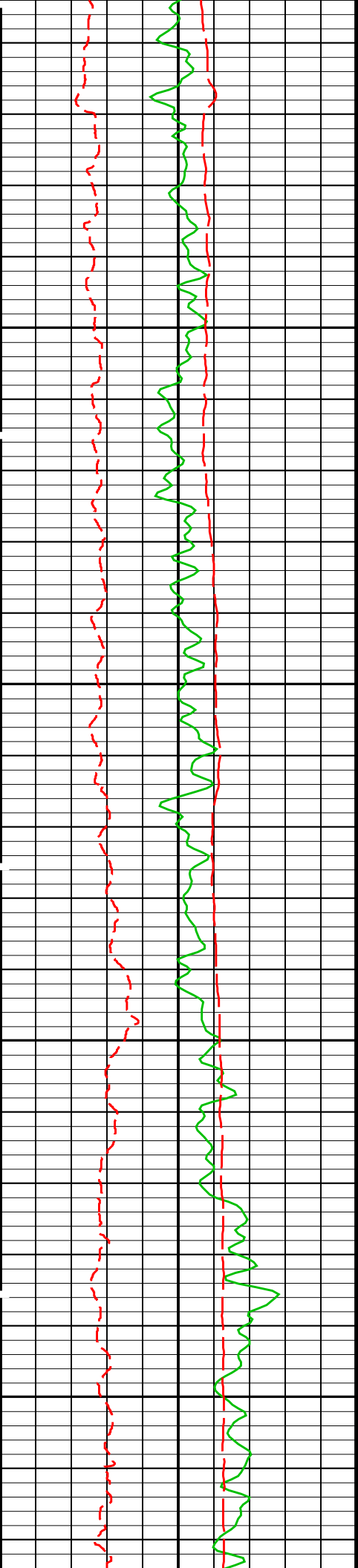


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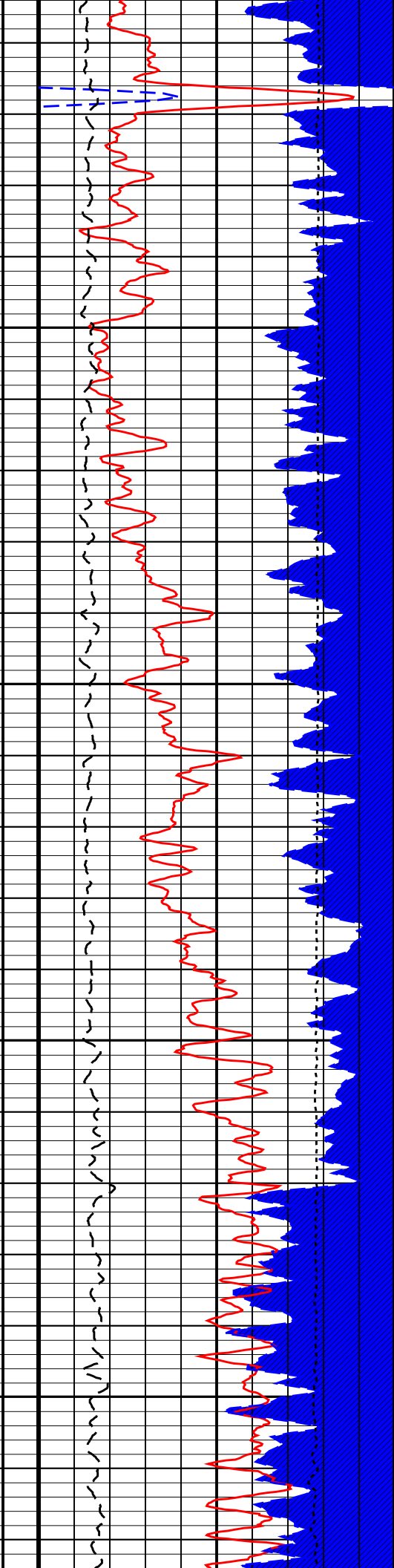
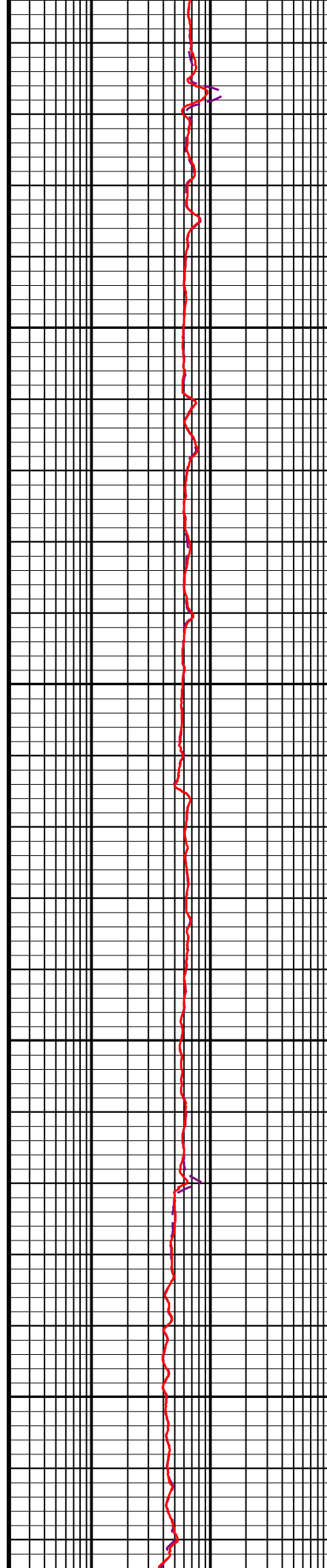
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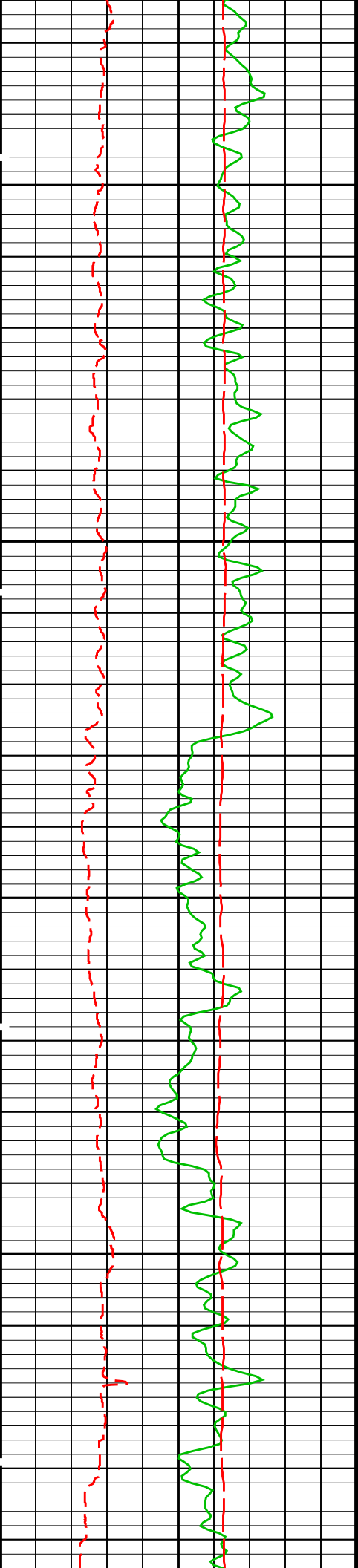




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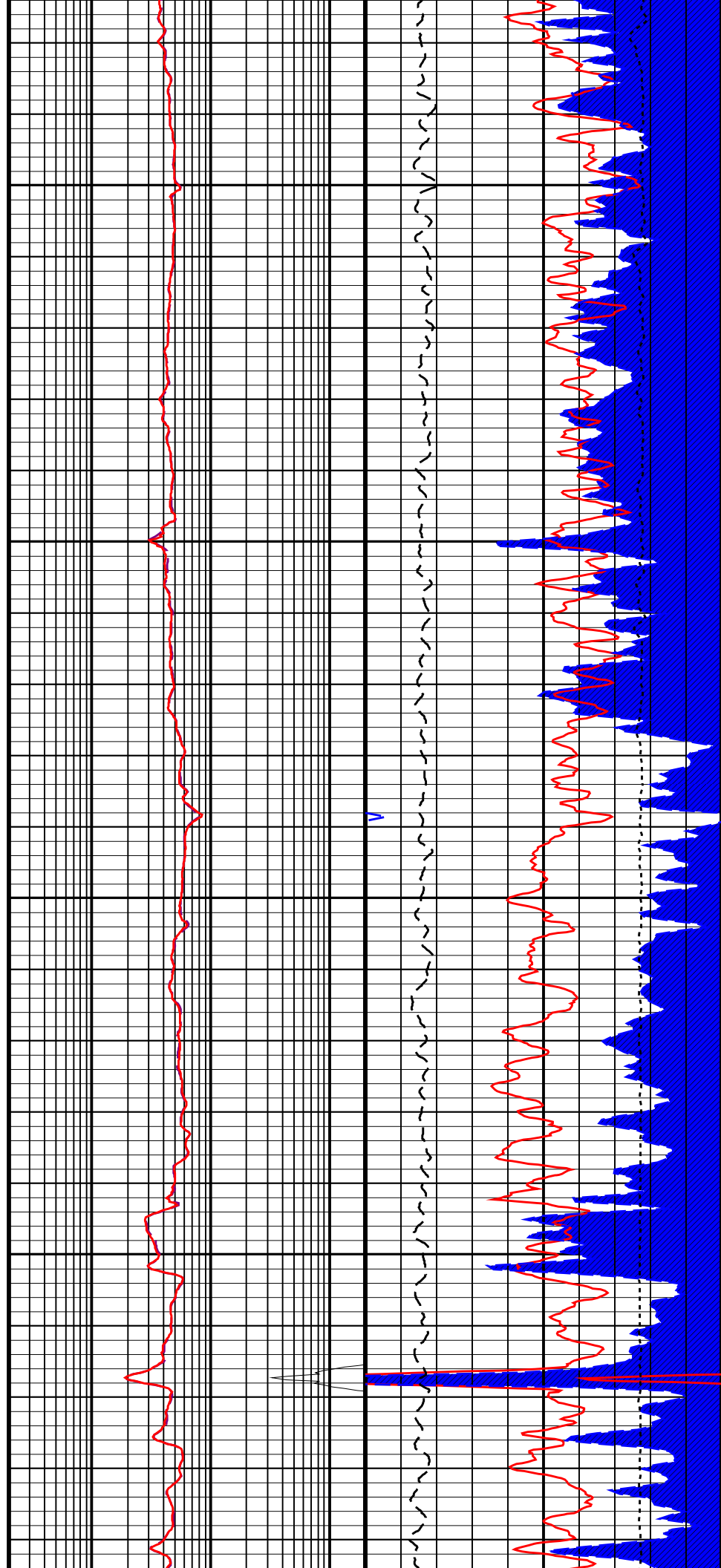
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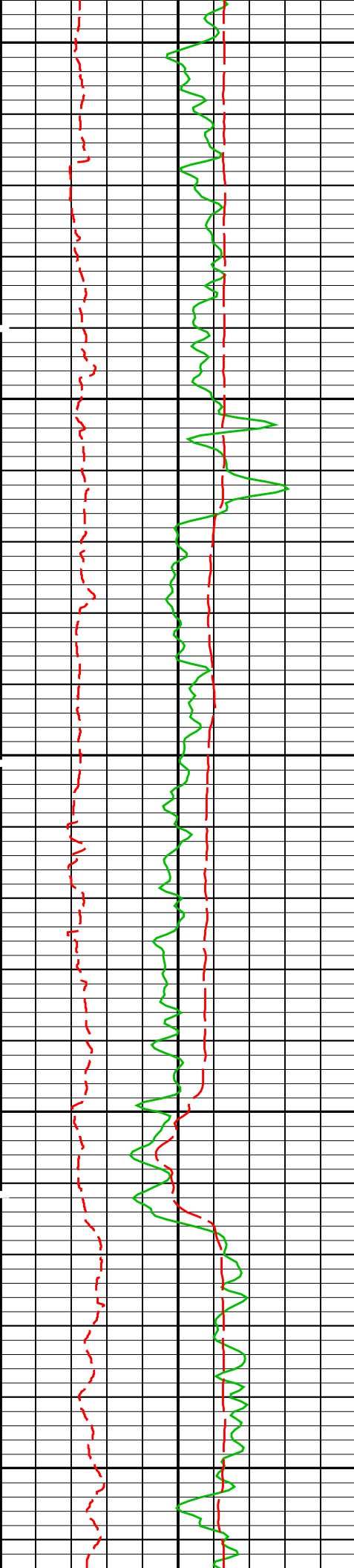




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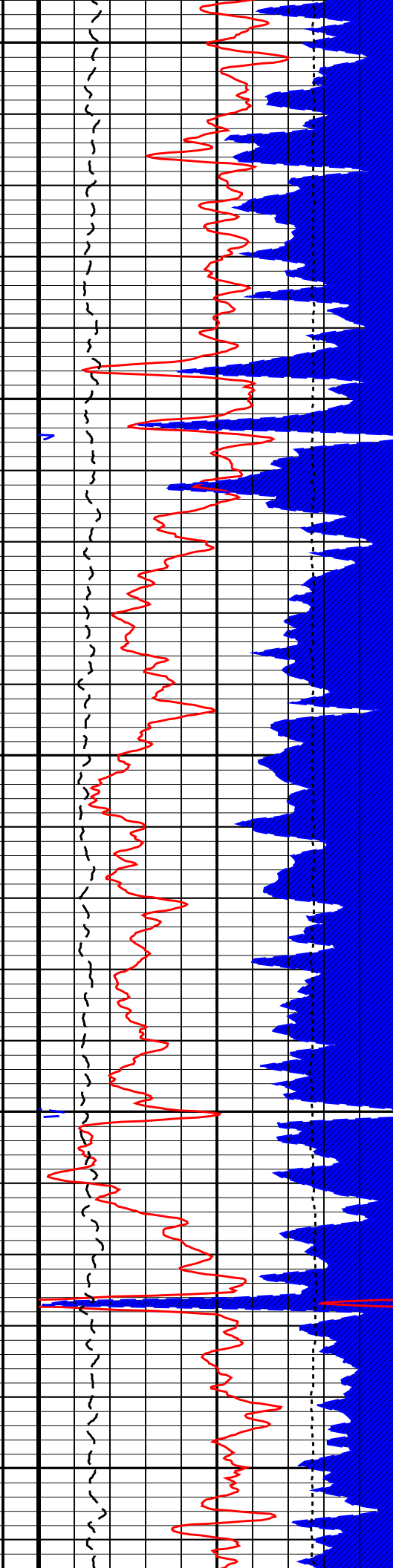
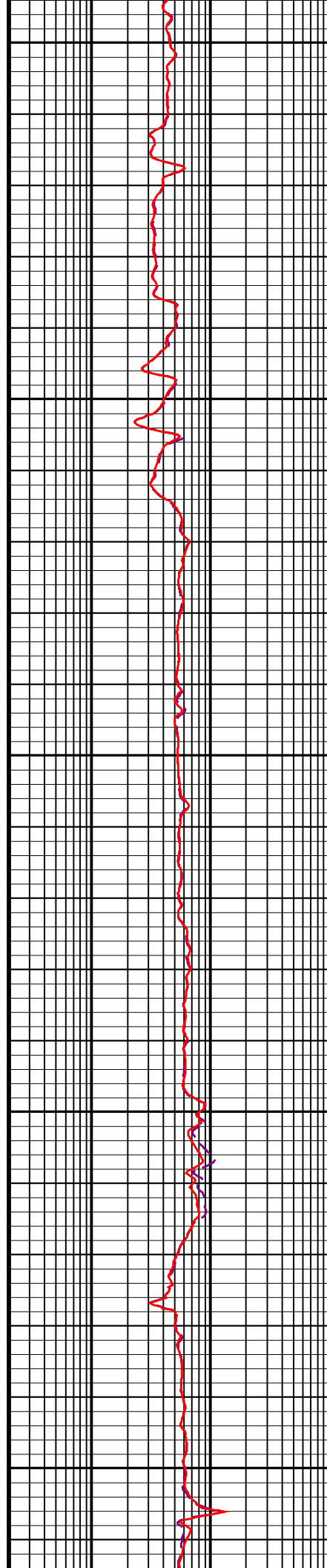
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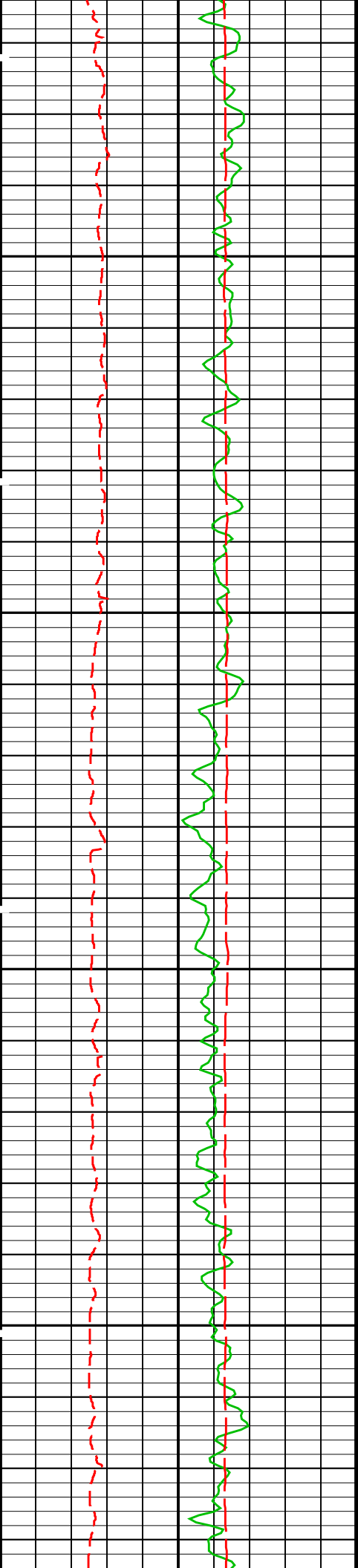




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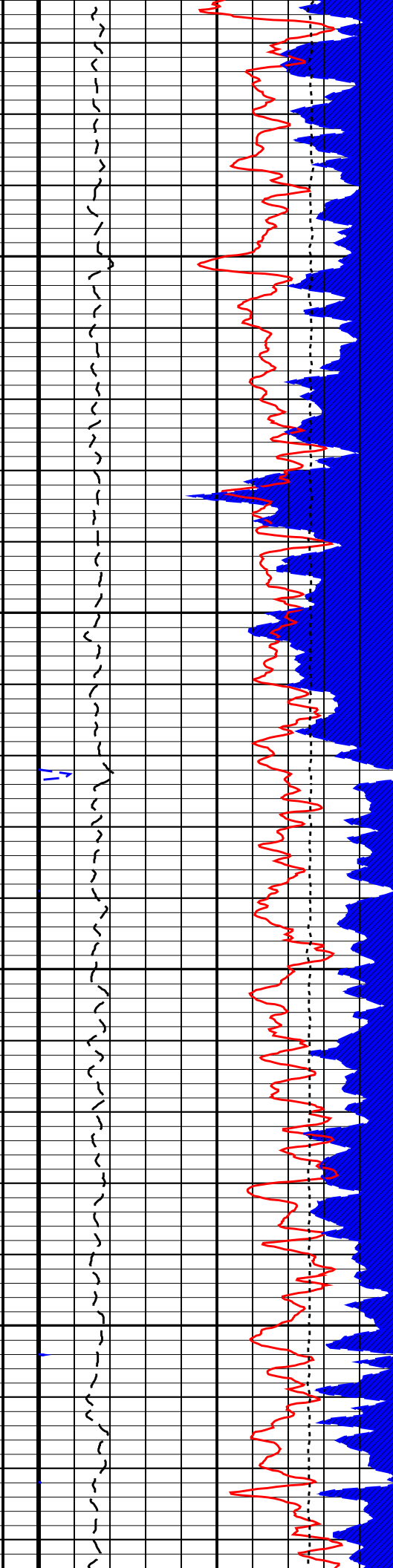
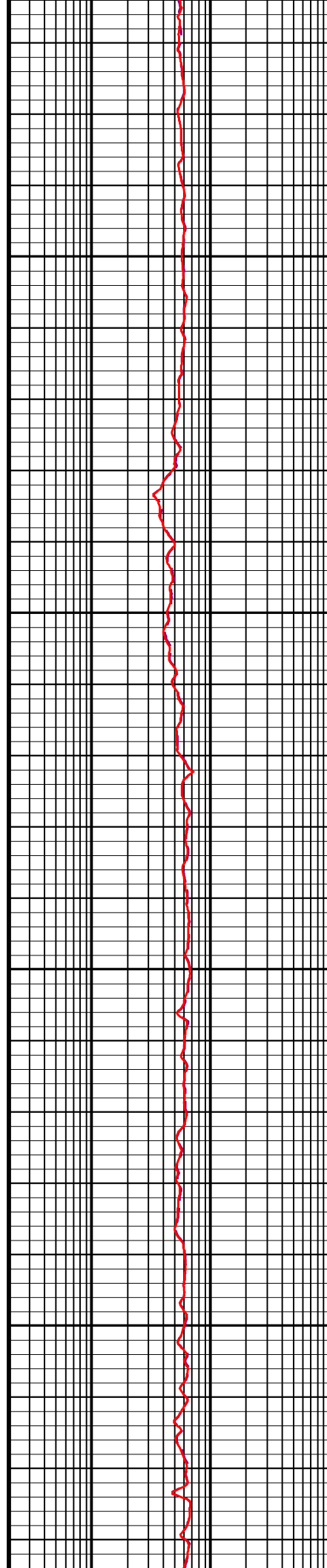
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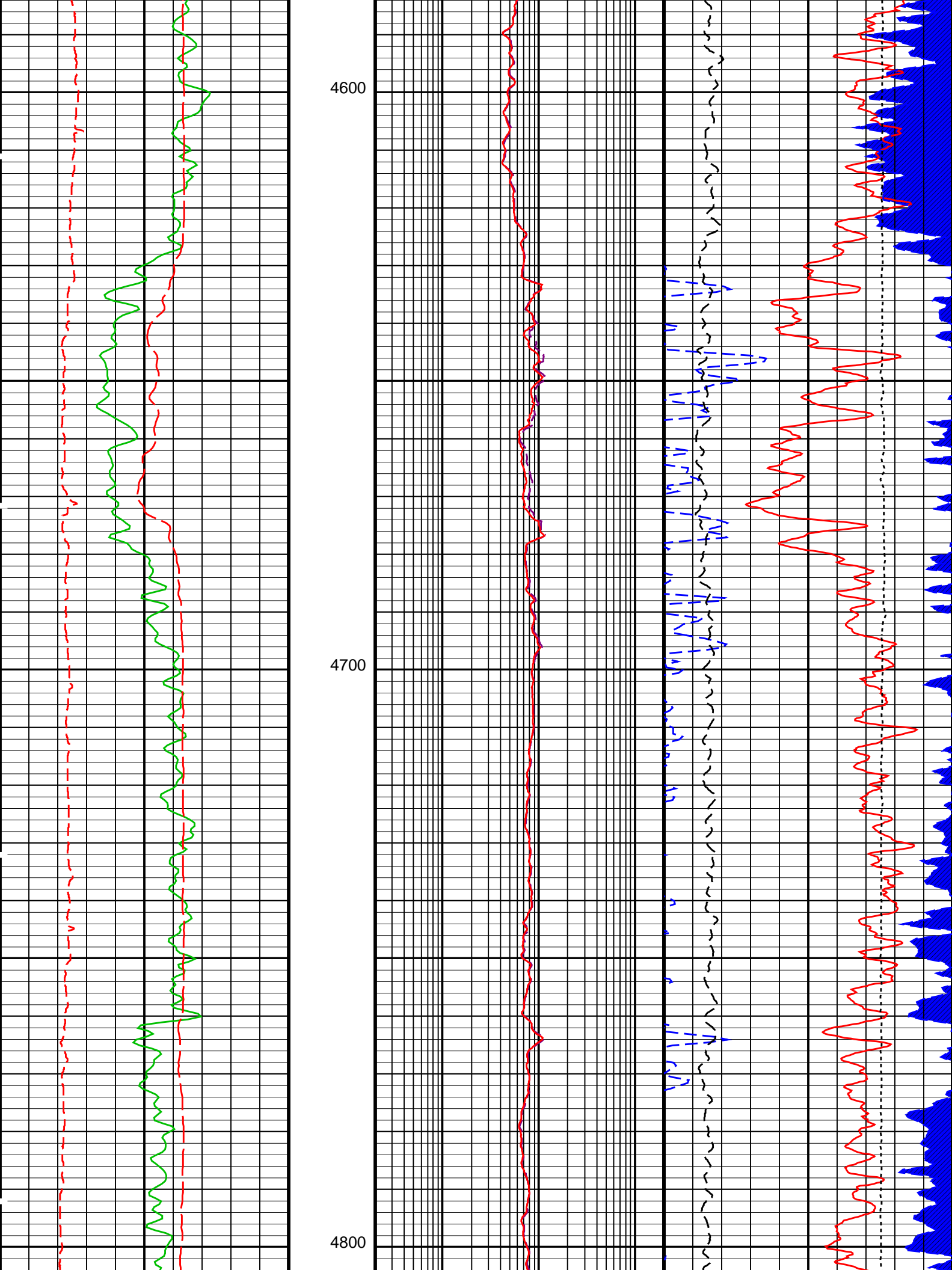


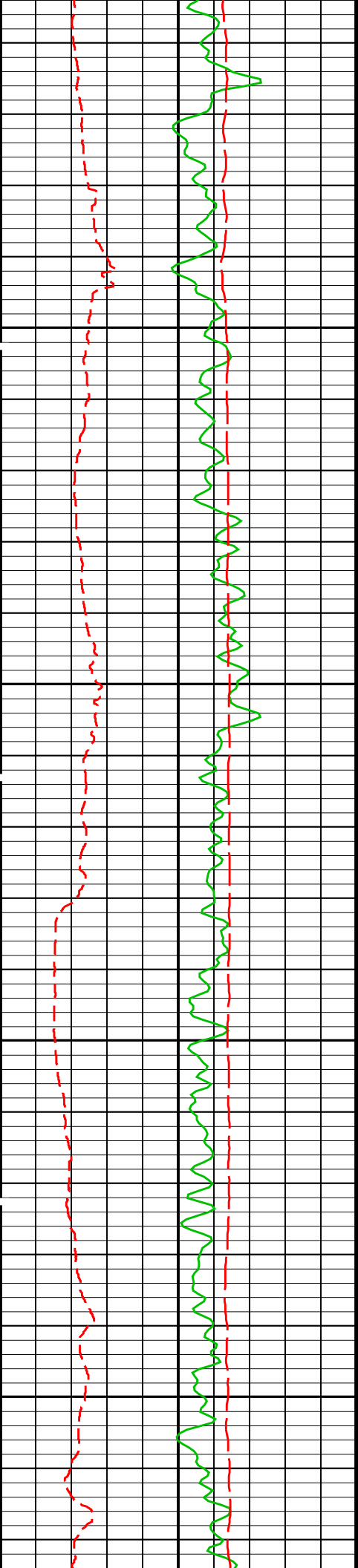


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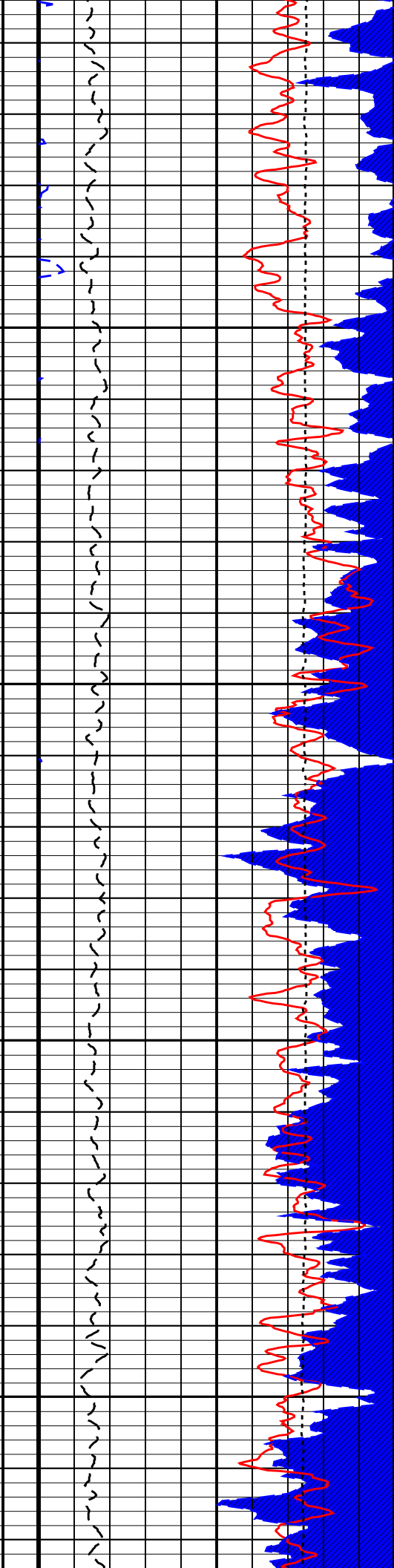
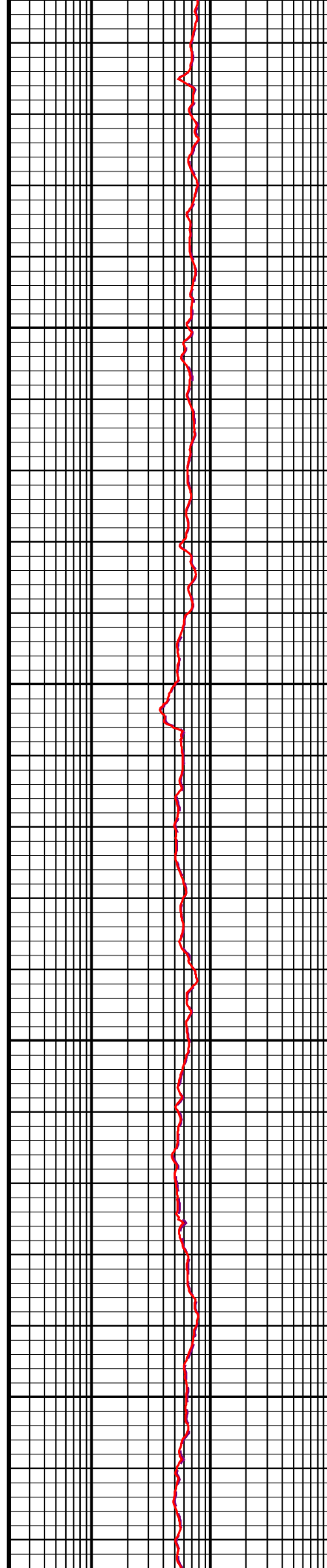


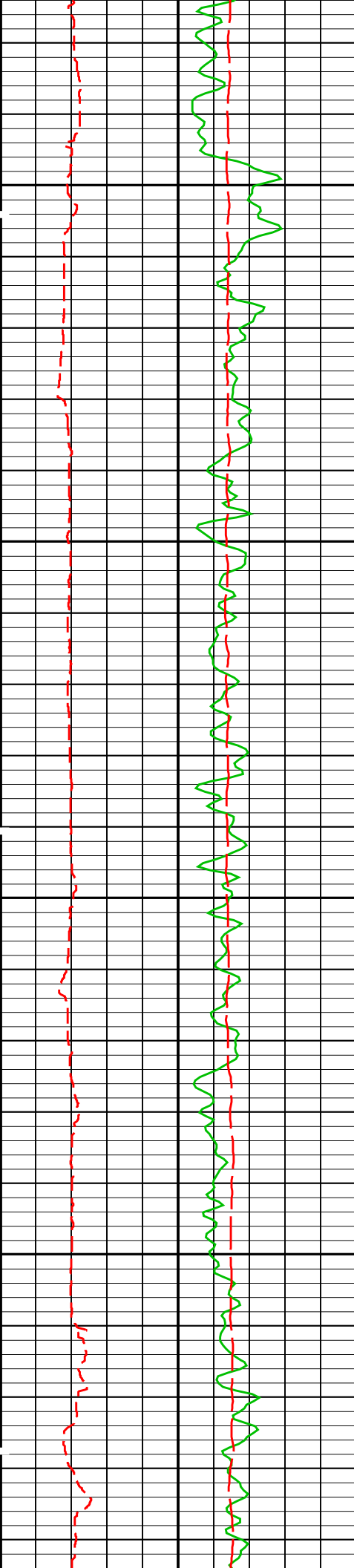




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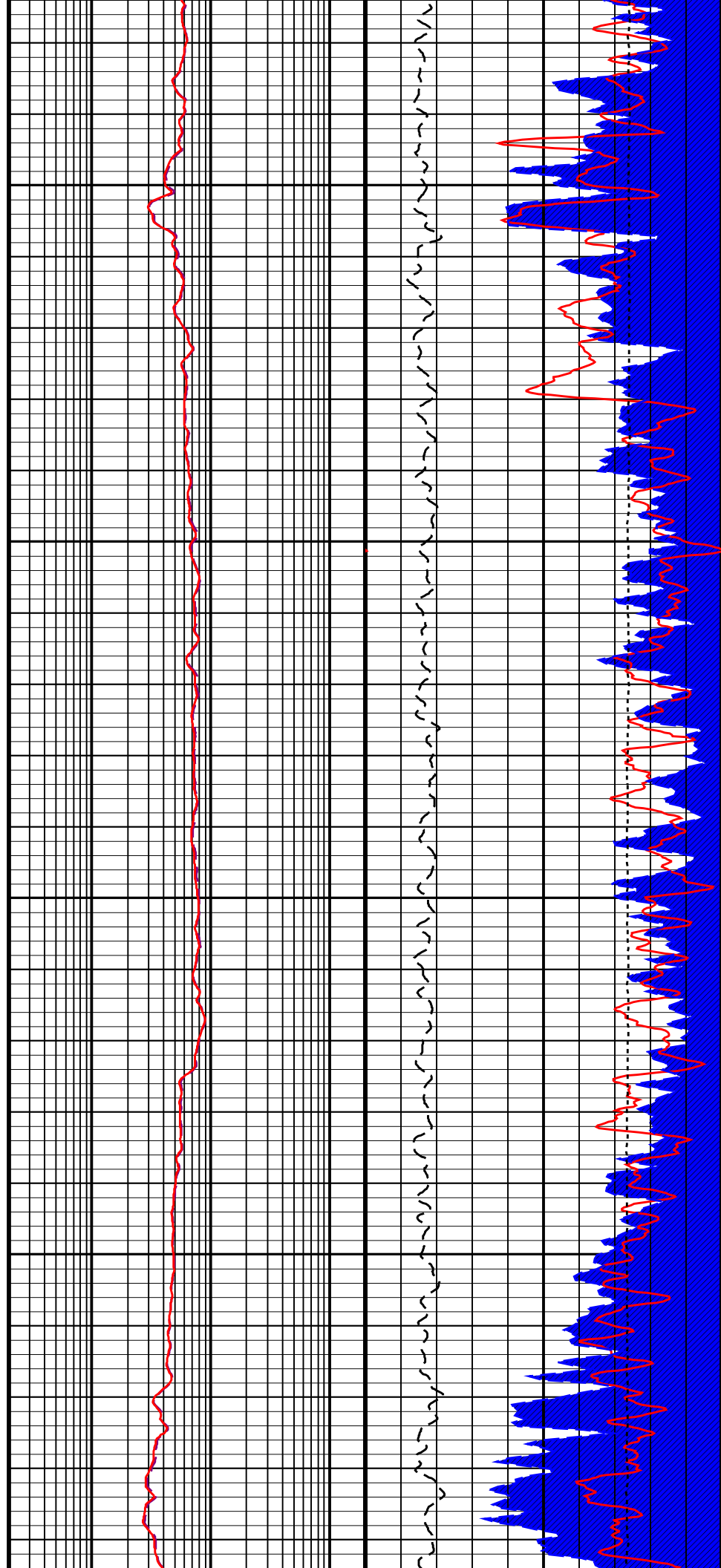
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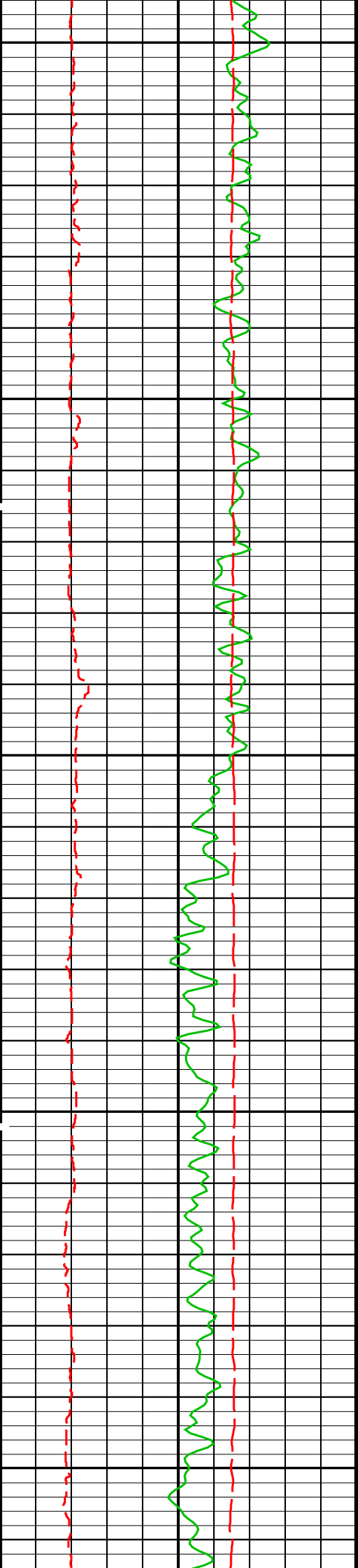




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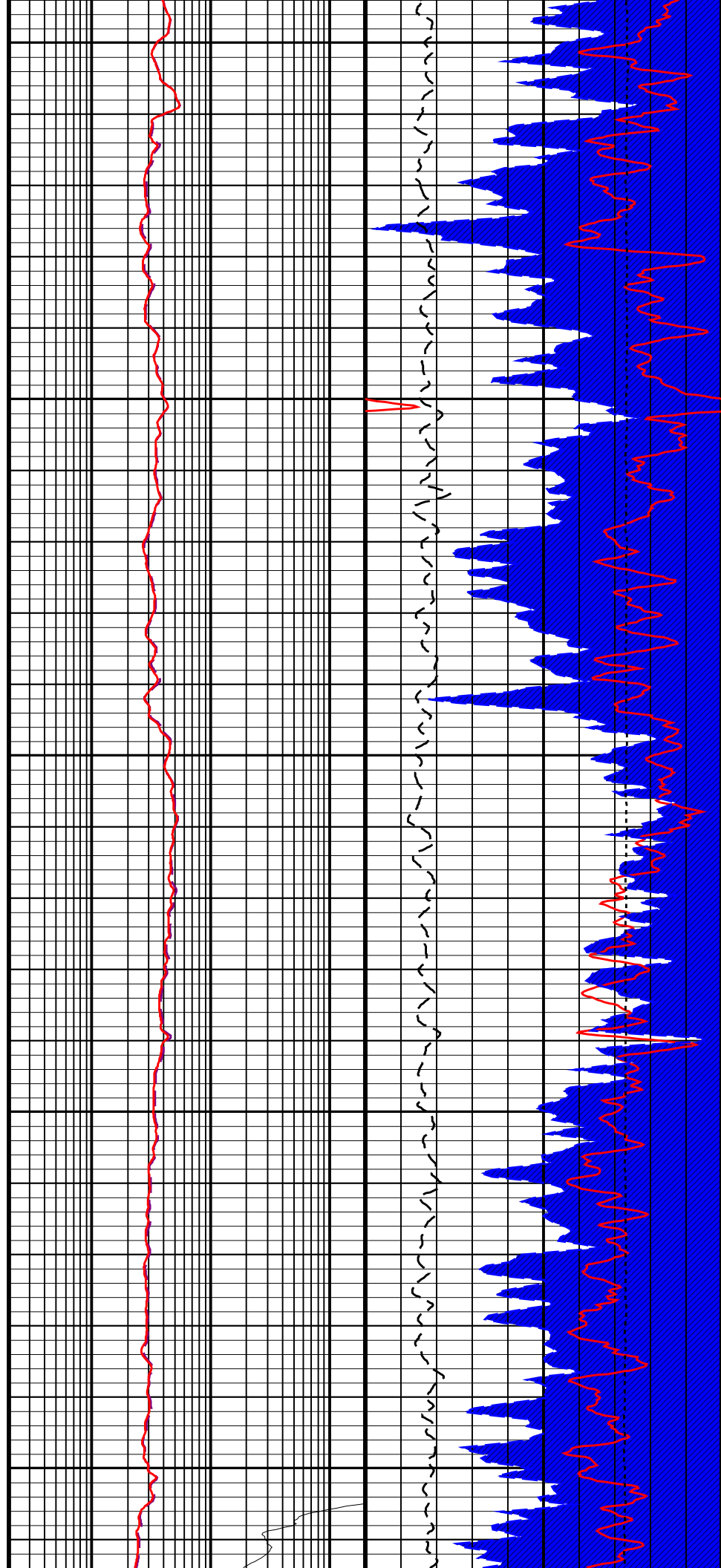
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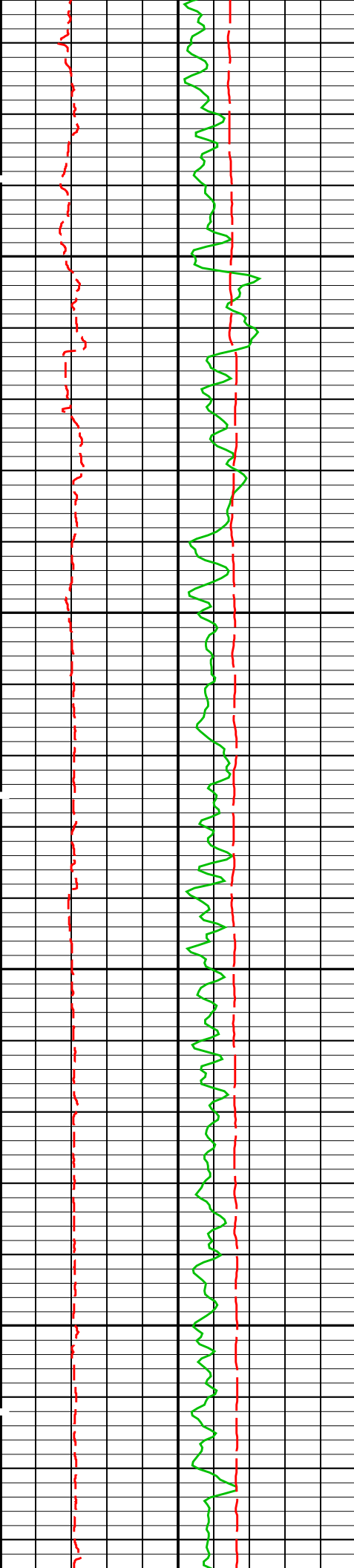




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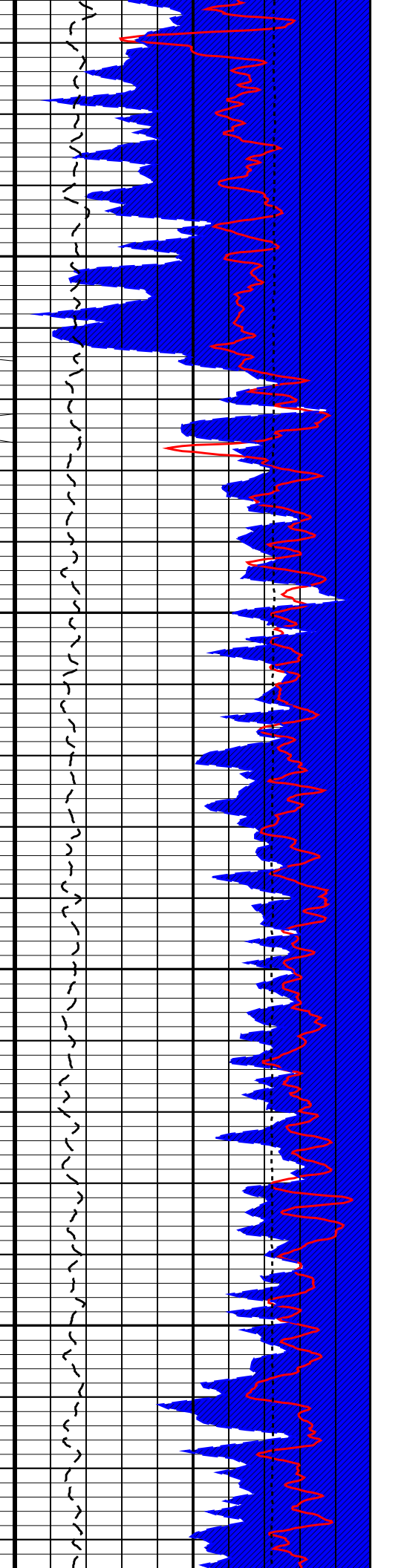
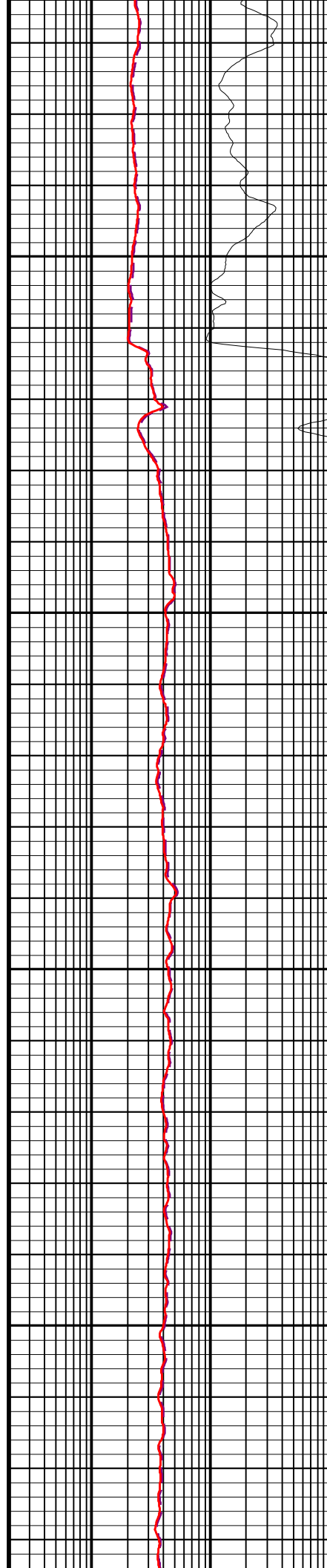
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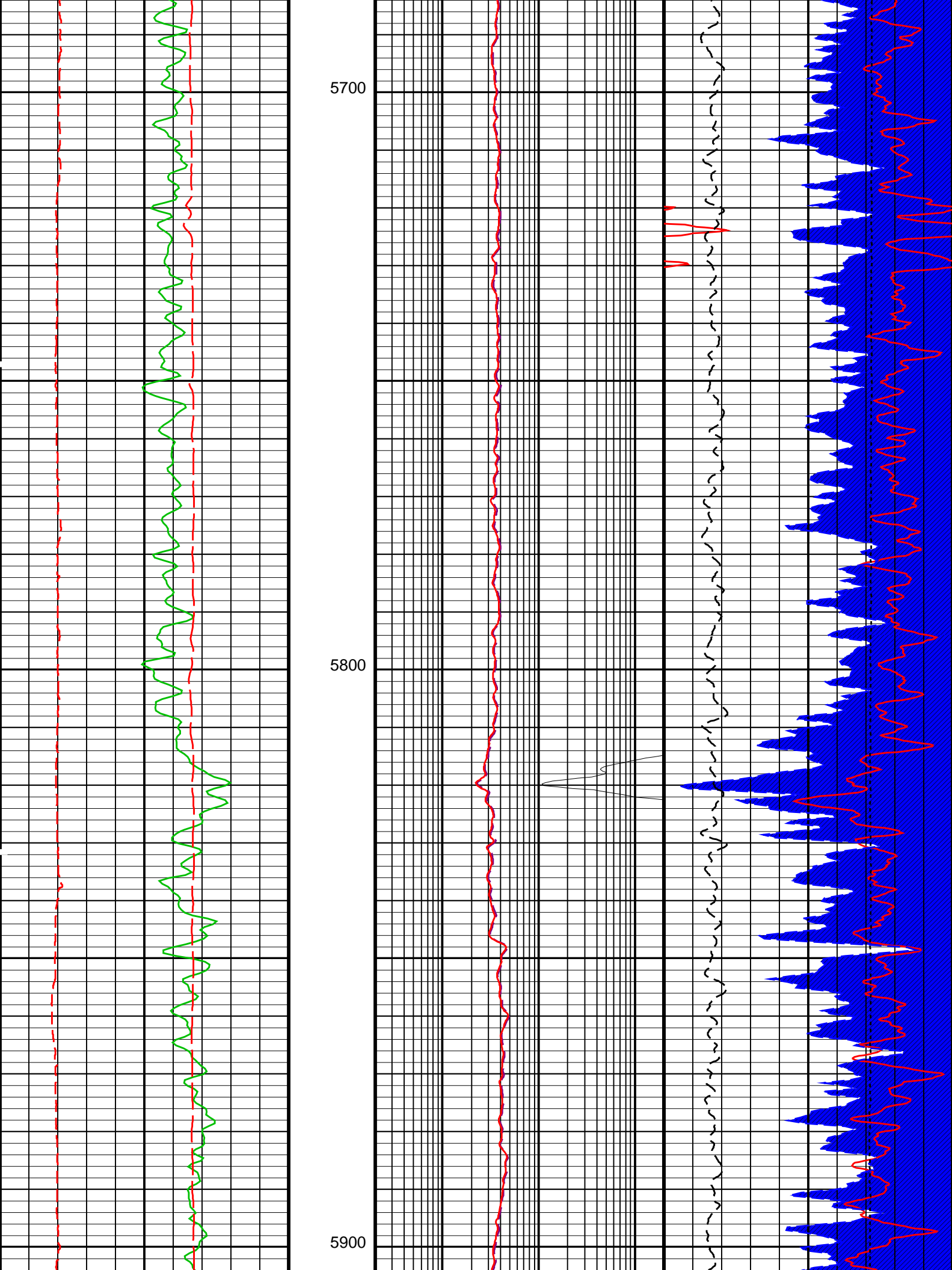


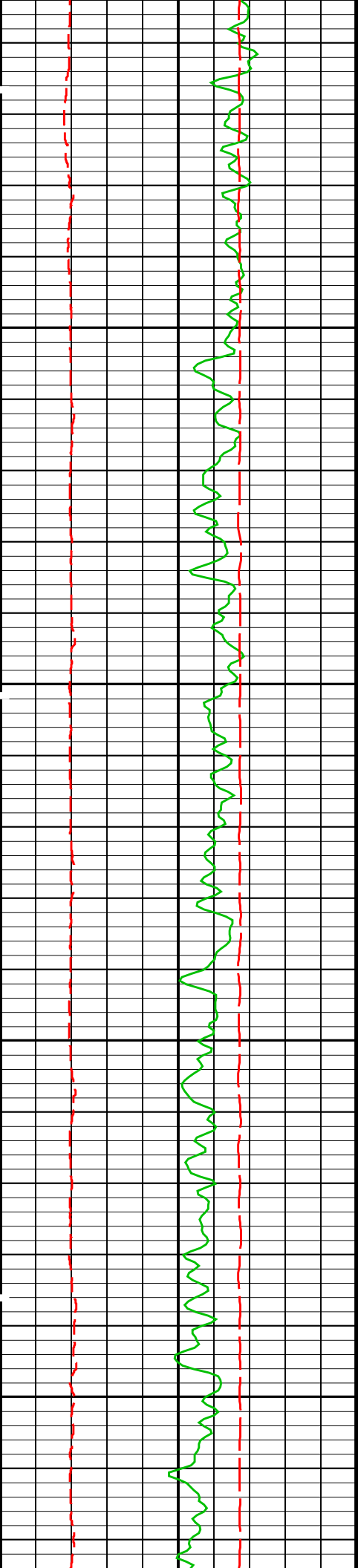


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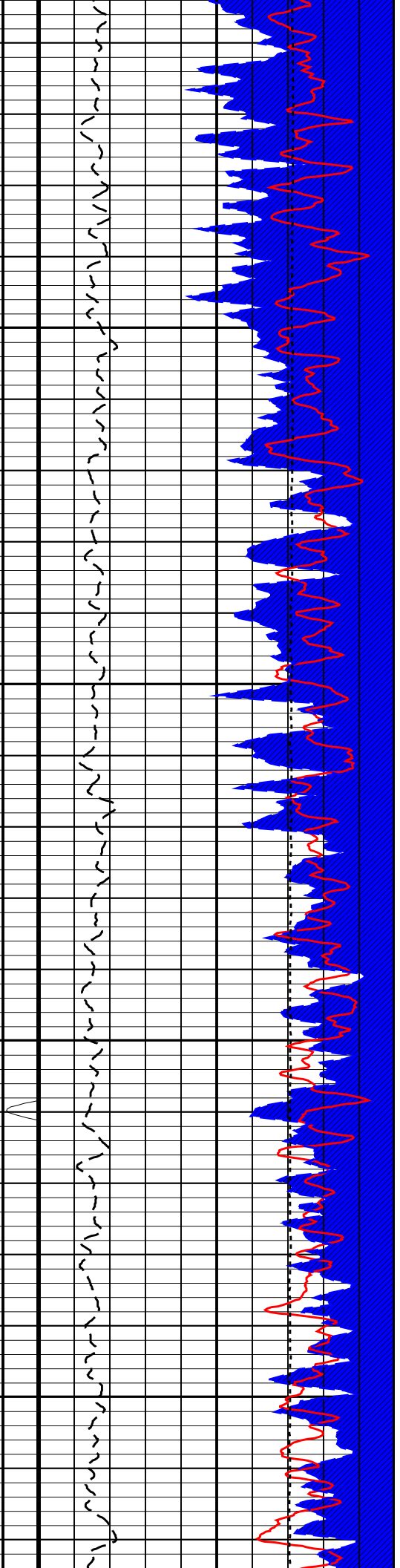
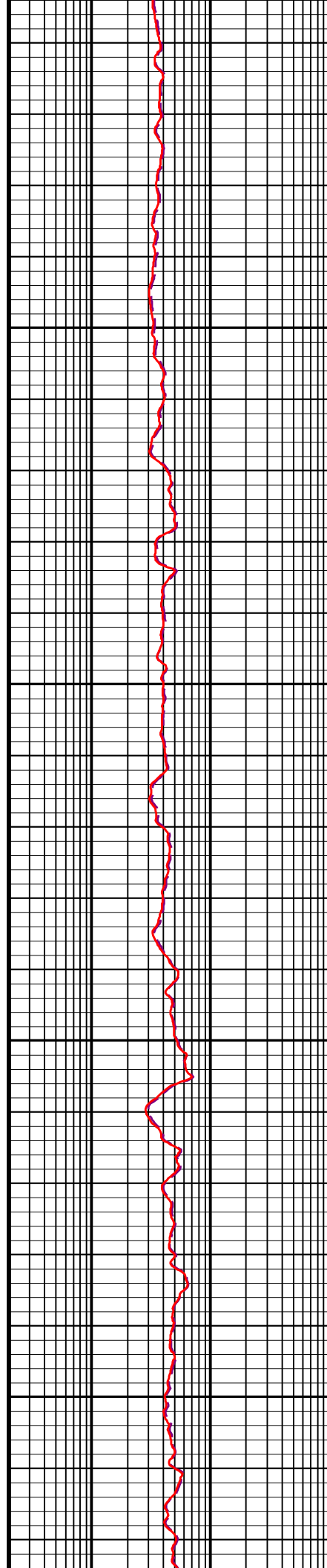


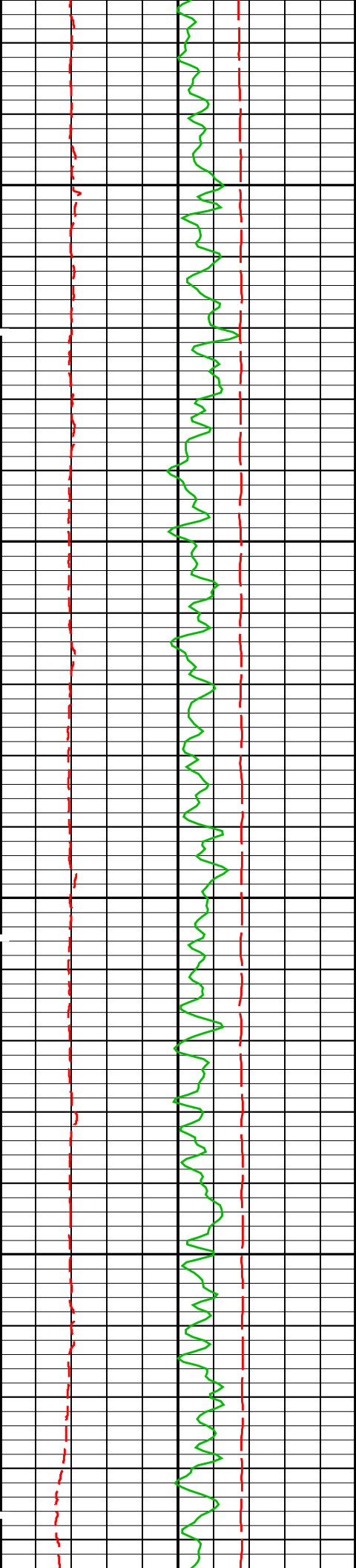




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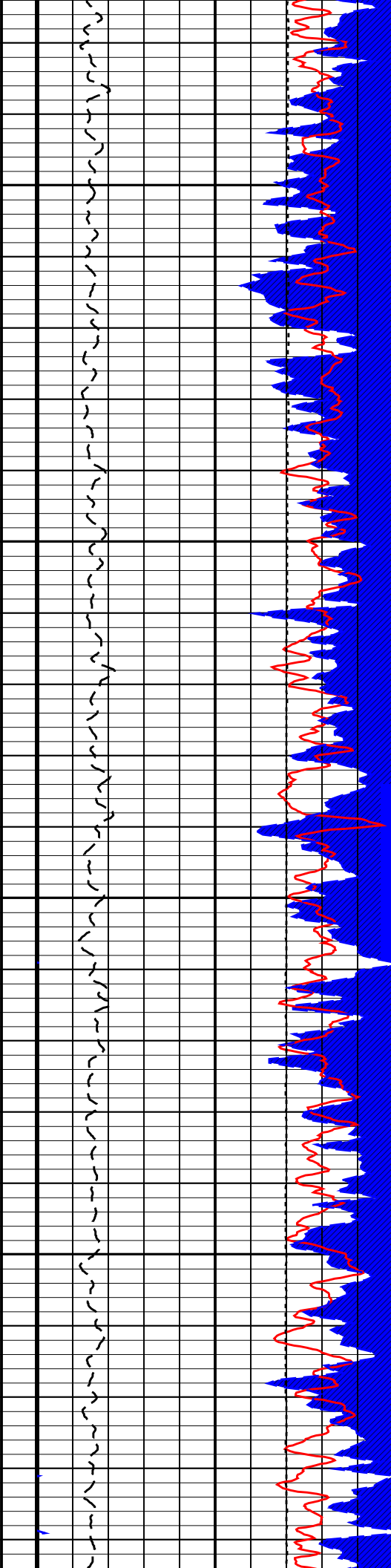
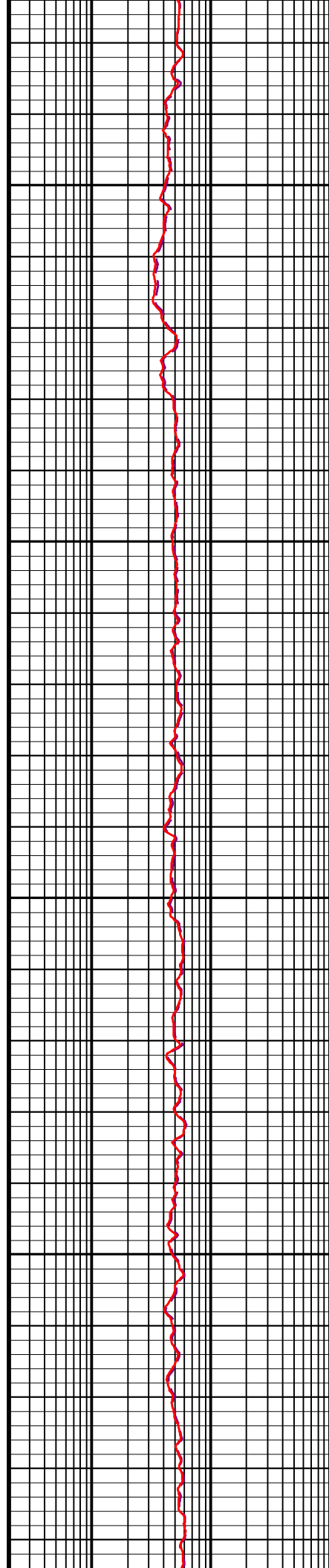
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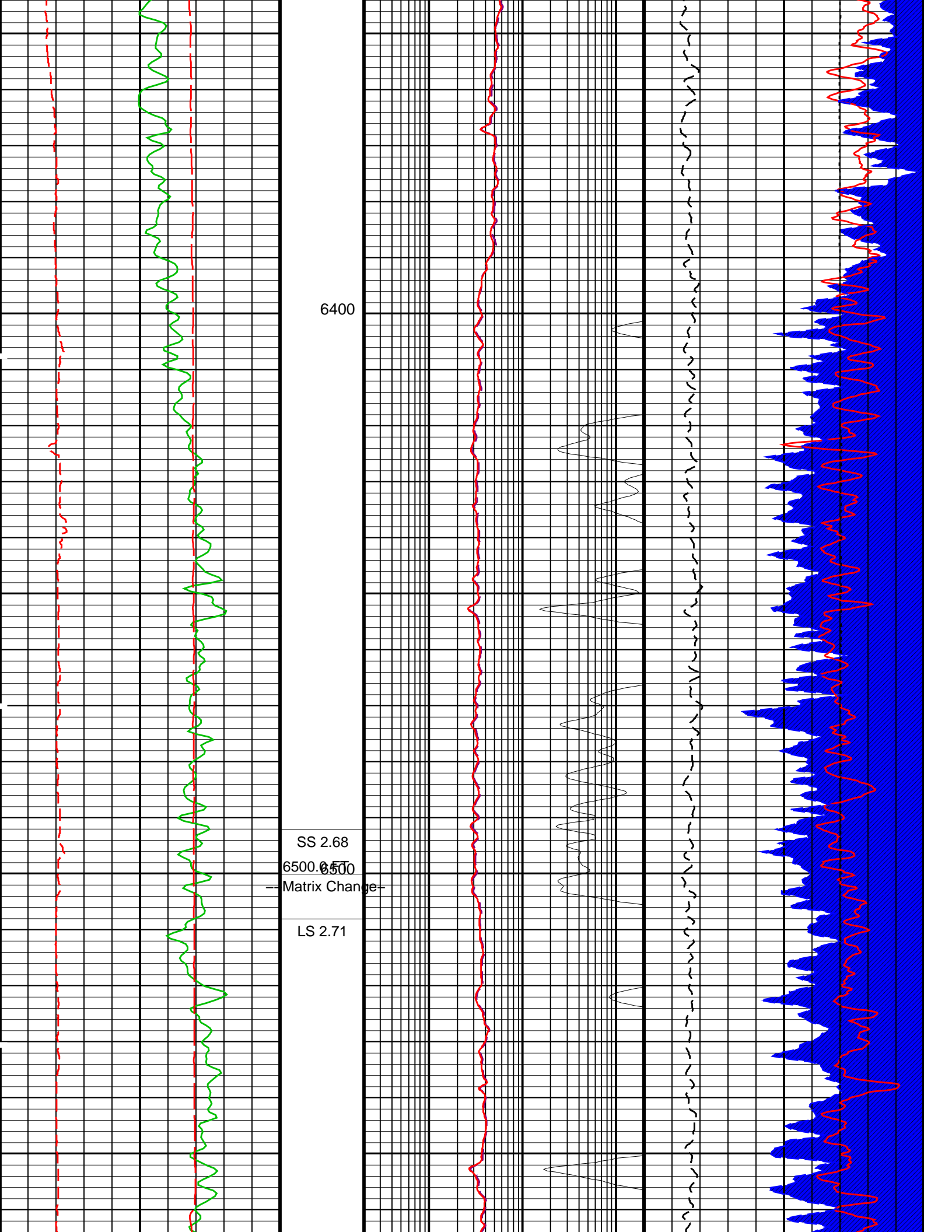


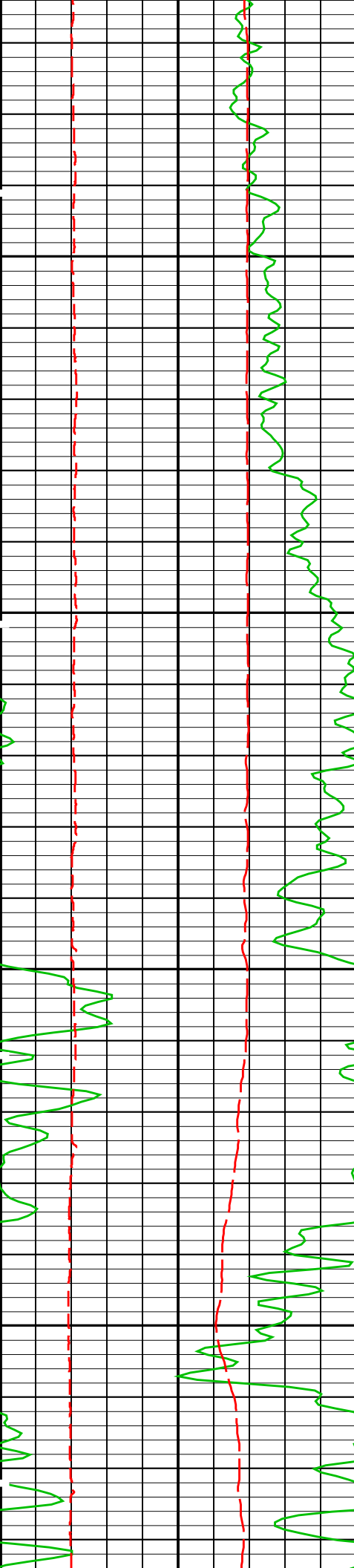


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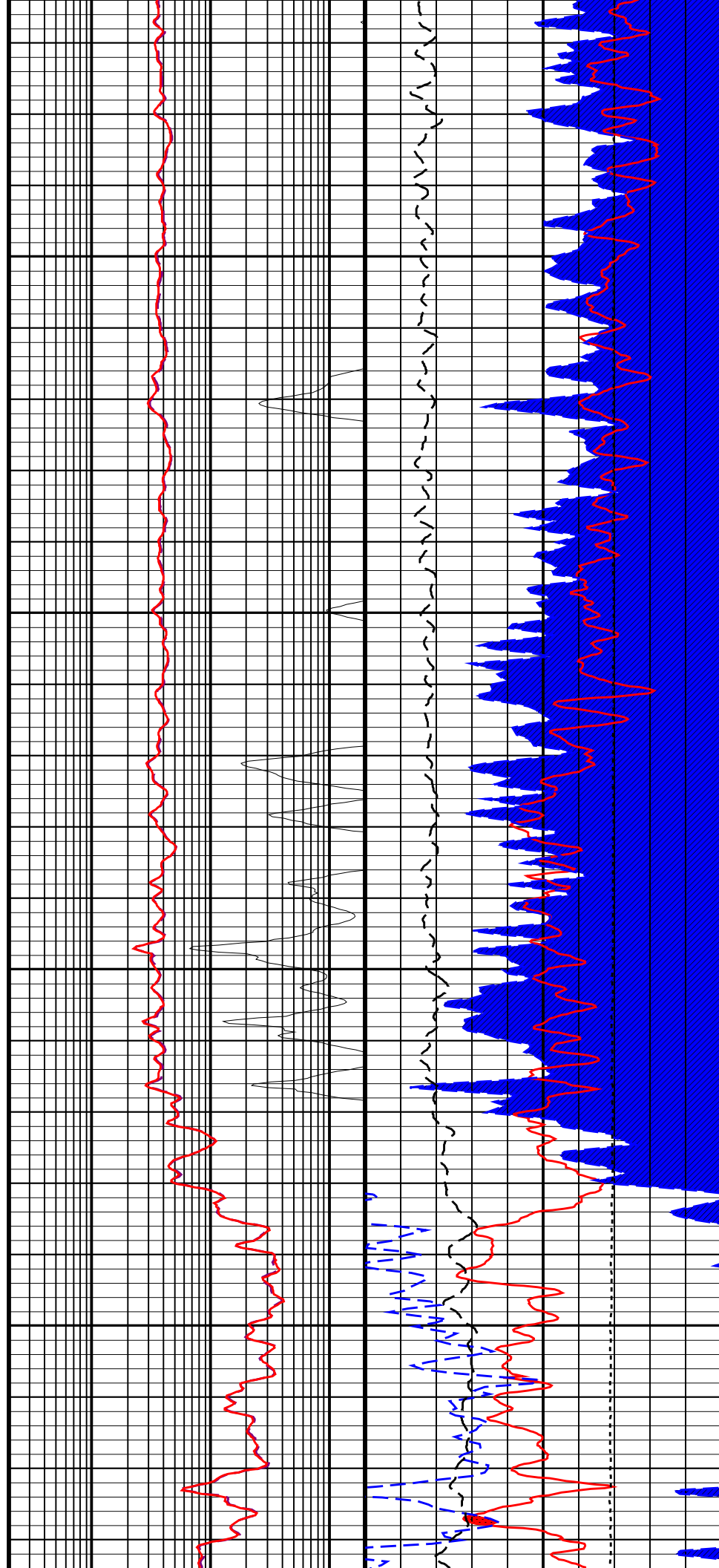


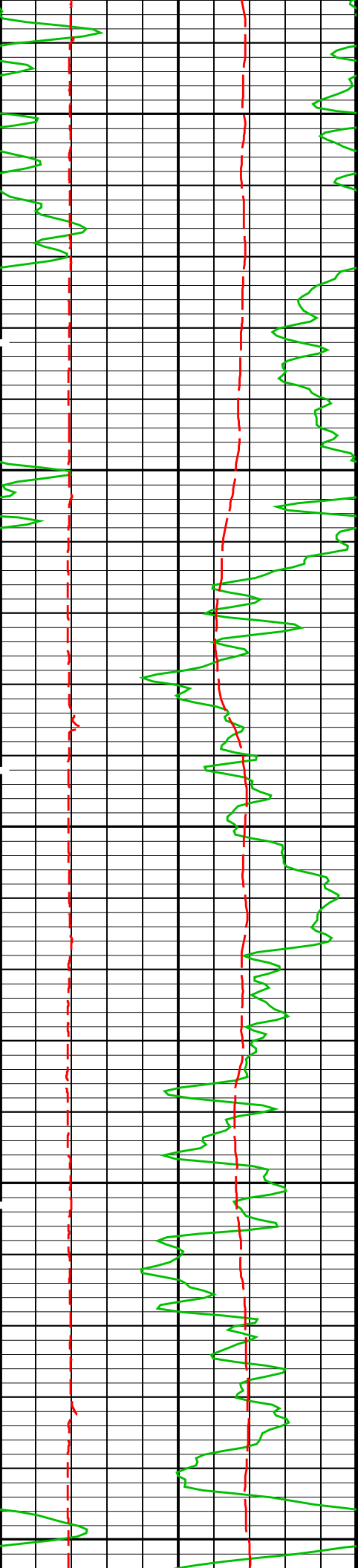




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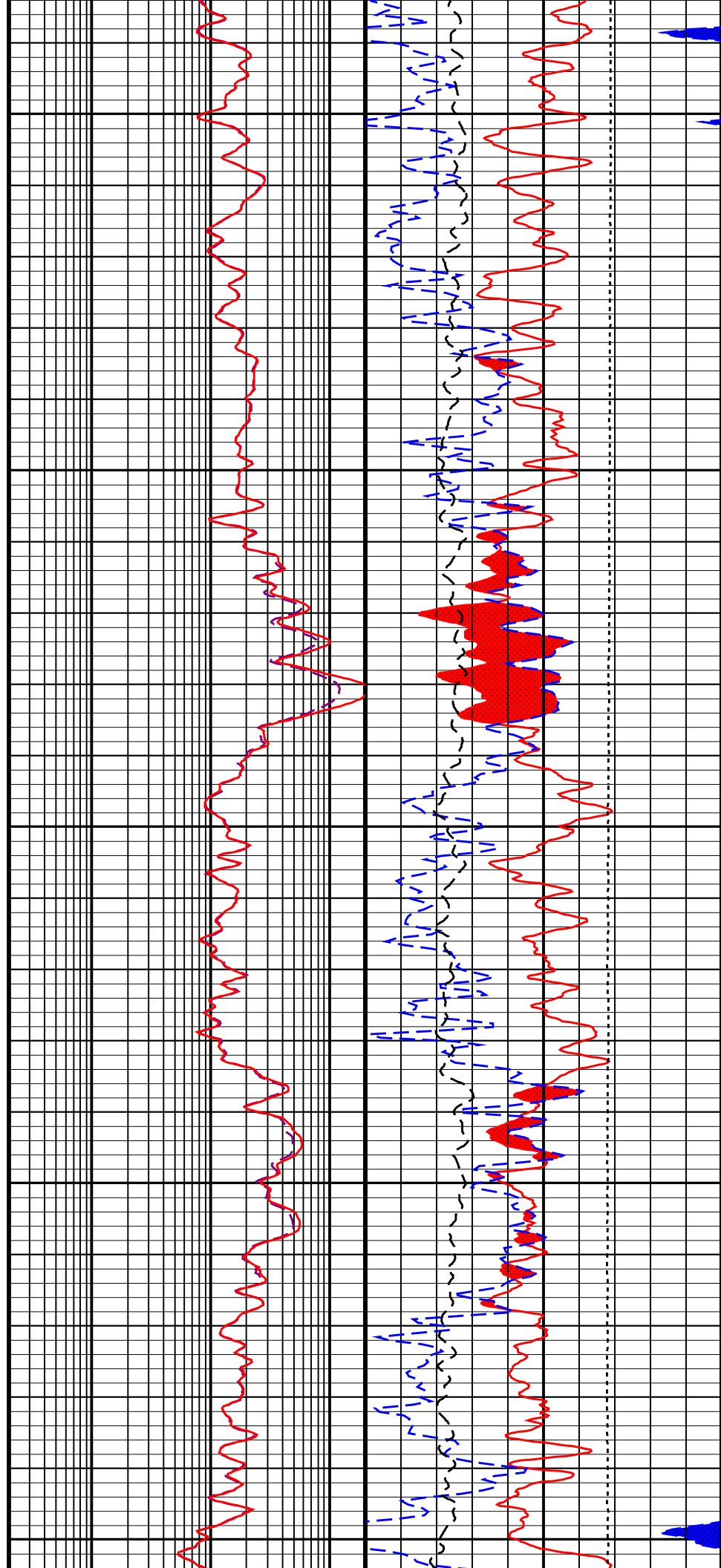


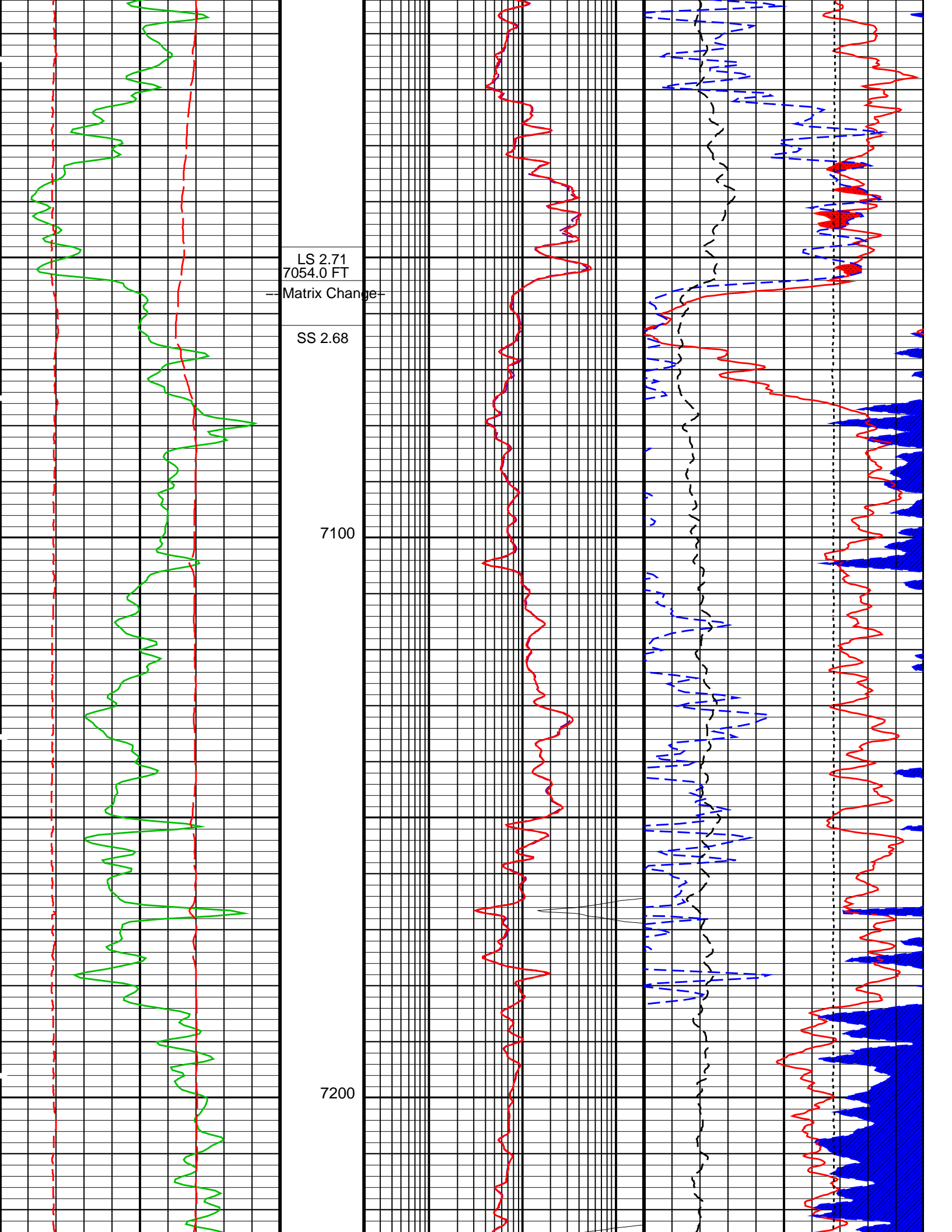


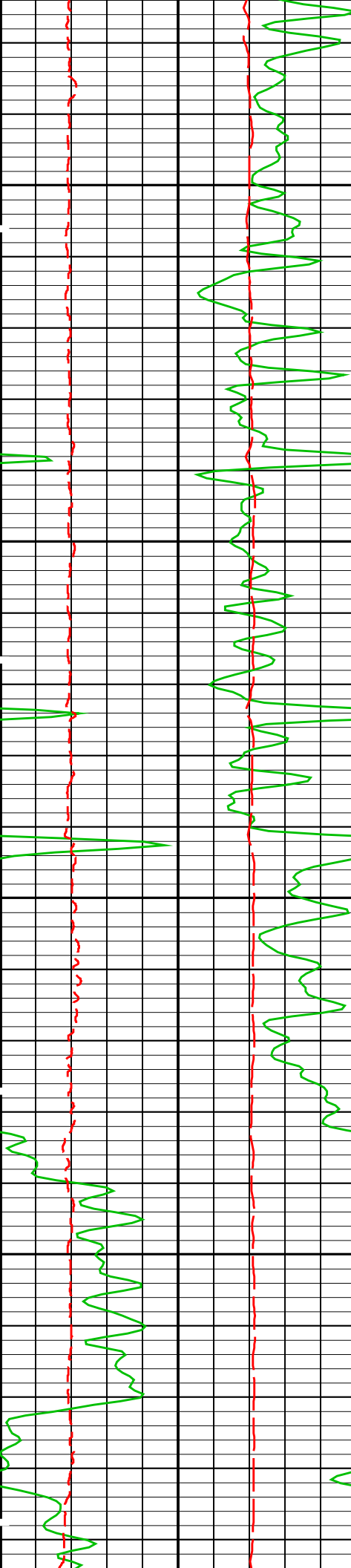
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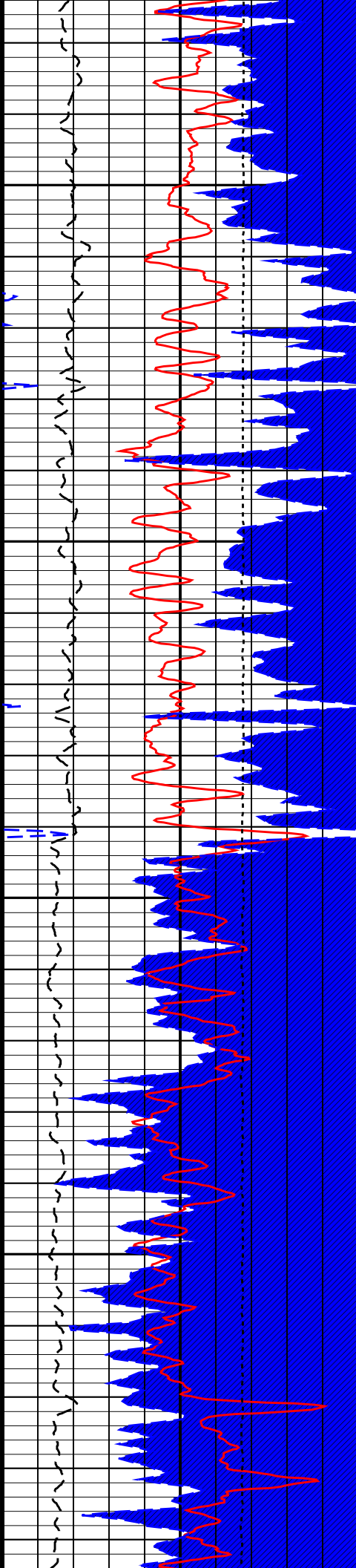
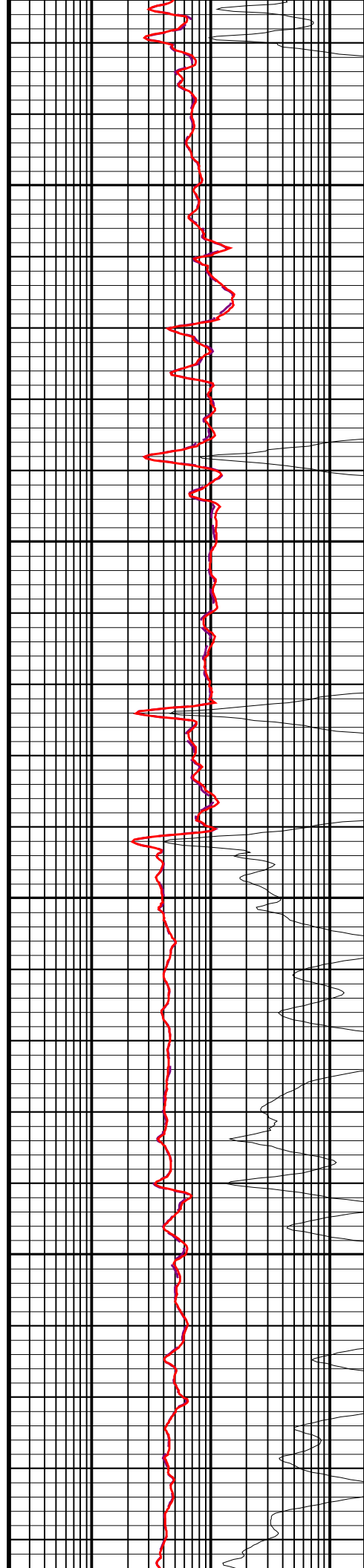


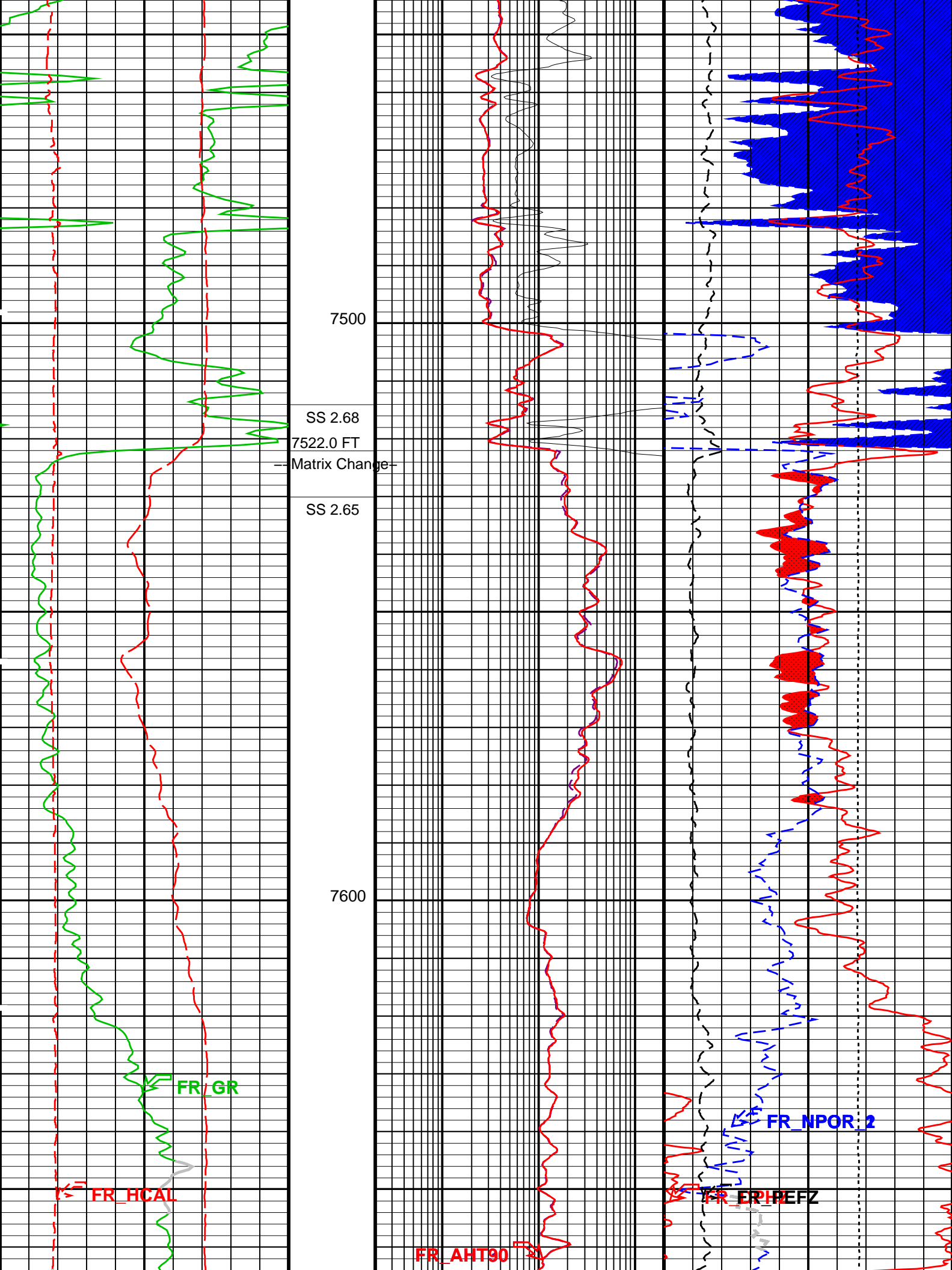


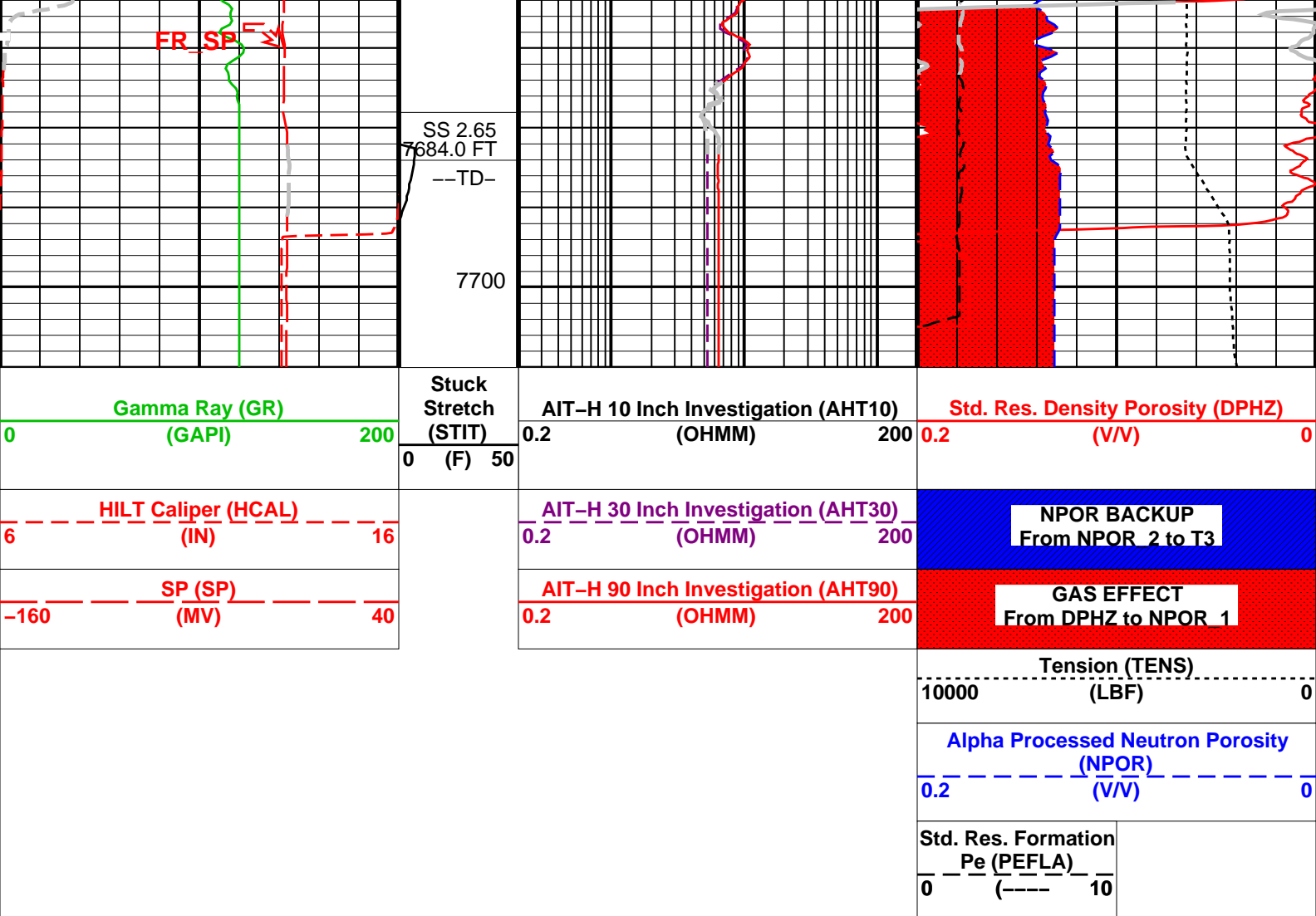


7300

7400







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HILTB-FTB: High resolution Integrated Logging Tool-DTS		
AHBHM	Array Induction Borehole Correction Mode	2_ComputeStandoff
AHBHV	Array Induction Borehole Correction Code Version Number	880
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	108
AHCDE	Array Induction Casing Detection Enable	Yes
AHCEN	Array Induction Tool Centering Flag (in Borehole)	Eccentered
AHFRSV	Array Induction Response Set Version for Four ft Resolution	40.70.24.21
AHMRF	Array Induction Mud Resistivity Factor	1
AHORSV	Array Induction Response Set Version for One ft Resolution	40.70.24.21
AHRFV	Array Induction Radial Profiling Code Version Number	700
AHRPV	Array Induction Radial Parametrization Code Version Number	223
AHSTA	Array Induction Tool Standoff	0.125 IN
AHTRSV	Array Induction Response Set Version for Two ft Resolution	40.70.24.21
BHFL	Borehole Fluid Type	WATER
BHFL_TLD	HILT Nuclear Mud Base	WATER
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	212 DEGF
BSCO	Borehole Salinity Correction Option	NO
CCCO	Casing & Cement Thickness Correction Option	NO
DHC	Density Hole Correction	BS
FD	Fluid Density	1 G/C3
FEXP	Form Factor Exponent	2
FNUM	Form Factor Numerator	1
FSAL	Formation Salinity	-50000 PPM
FSCO	Formation Salinity Correction Option	NO
GCLF	Germany Coal-like Formation Option	NO
GCSE	Generalized Caliper Selection	HCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST
GTSE	Generalized Temperature Selection	HSTS_HTEM

GTSE	Generalized Temperature Selection	HSTS_HTEM	YES	
HSCO	Hole Size Correction Option	LIMESTONE	NO	
MATR	Rock Matrix for Neutron Porosity Corrections			
MCCO	Mud Cake Correction Option			
MCOR	Mud Correction	NATU	2.71	G/C3
MDEN	Matrix Density		NO	
MWCO	Mud Weight Correction Option		OFF	
NAAC	HRDD APS Activation Correction			
NMT	HILT Nuclear Mud Type	NOBARITE	StdRes	
NPRM	HRDD Processing Mode		1	IN
NSAR	HRDD Depth Sampling Rate		NO	
PTCO	Pressure/Temperature Correction Option		SOCN	
SDAT	Standoff Data Source		55	DEGF
SHT	Surface Hole Temperature		0.125	IN
SOCN	Standoff Distance		YES	
SOCO	Standoff Correction Option		0	MV
SPNV	SP Next Value			
HOLEV: Integrated Hole/Cement Volume				
BHS	Borehole Status	OPEN		
BHT	Bottom Hole Temperature (used in calculations)	212		DEGF
GCSE	Generalized Caliper Selection	HCAL		
GDEV	Average Angular Deviation of Borehole from Normal	0		DEG
GGRD	Geothermal Gradient	0.01		DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST		
GTSE	Generalized Temperature Selection	HSTS_HTEM		
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
SHT	Surface Hole Temperature	55		DEGF
PERT: Preliminary Evaluation - Real Time				
BHS	Borehole Status	OPEN		
BHT	Bottom Hole Temperature (used in calculations)	212		DEGF
FEXP	Form Factor Exponent	2		
FNUM	Form Factor Numerator	1		
GCSE	Generalized Caliper Selection	HCAL		
GDEV	Average Angular Deviation of Borehole from Normal	0		DEG
GGRD	Geothermal Gradient	0.01		DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST		
GTSE	Generalized Temperature Selection	HSTS_HTEM		
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
SHT	Surface Hole Temperature	55		DEGF
STI: Stuck Tool Indicator				
LBFR	Trigger for MAXIS First Reading Label	TDL		
STKT	STI Stuck Threshold	2.5		FT
TDD	Total Depth - Driller	7670.00		FT
TDL	Total Depth - Logger	7670.00		FT
DIR: Directional Survey Computation				
SPVD	TVD of Starting Point	0		FT
TIMD	Along-hole depth of Tie-in Point	0		FT
TIVD	TVD of Tie-in Point	0		FT
DIRPLOT: Enhanced Directional Plots				
BHS	Borehole Status	OPEN		
BHT	Bottom Hole Temperature (used in calculations)	212		DEGF
GCSE	Generalized Caliper Selection	HCAL		
GDEV	Average Angular Deviation of Borehole from Normal	0		DEG
GGRD	Geothermal Gradient	0.01		DF/F
GRSE	Generalized Mud Resistivity Selection	AITH_RESIST		
GTSE	Generalized Temperature Selection	HSTS_HTEM		
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
SHT	Surface Hole Temperature	55		DEGF
System and Miscellaneous				
BS	Bit Size	7.875		IN
BSAL	Borehole Salinity	-50000.00		PPM
CSIZ	Current Casing Size	8.875		IN
CWEI	Casing Weight	24.00		LB/F
DFD	Drilling Fluid Density	9.20		LB/G
DO	Depth Offset for Playback	0.0		FT
MST	Mud Sample Temperature	166.00		DEGF
PP	Playback Processing	NORMAL		
RMFS	Resistivity of Mud Filtrate Sample	1.0950		OHMM
TD	Total Depth	7670		FT

Format: COMBO Vertical Scale: 5" per 100' Graphics File Created: 24-Jan-2007 22:11

OP System Version: 14C0-302

MCM

HILTB-FTB	SRPC-3193-Q3_2006	GPIT-C	SRPC-3193-Q3_2006
DTC-H	SRPC-3193-Q3_2006		

Input DLIS Files

24-Jan-2007 22:10

Output DLIS Files

DEFAULT	AIT_TLD_MCFL_CNL_006PUP	FN:4	PRODUCER	24-Jan-2007 22:11
<div><div>Company: Orr Energy LLC</div><div>Schlumberger</div><div>Well: Lowe 31-44D</div><div>Field: Wattenberg</div><div>County: Weld</div><div>State: Colorado</div><div>Platform Express</div><div>Triple Combo</div></div>				