

DEPTH SUMMARY LISTING	
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Date Created: 16-FEB-2007 10:23:50

Depth System Equipment	
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Depth Measuring Device		Tension Device		Logging Cable	
Type:	IDW-B	Type:	CMTD-B/A	Type:	7-39P-LXS
Serial Number:	3006	Serial Number:	1223	Serial Number:	3095
Calibration Date:	26-Jul-2006	Calibration Date:	20-Jan-2007	Length:	11440.00 FT
Calibrator Serial Number:	33	Calibrator Serial Number:	100513	Conveyance Method:	Wireline
Calibration Cable Type:	7-39P-LXS	Calibration Gain:	0.85	Rig Type:	LAND
Wheel Correction 1:	-4	Calibration Offset:	464.00		
Wheel Correction 2:	-2				

Depth Control Parameters	
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Log Sequence:	First Log In the Well
Rig Up Length At Surface:	0.00 FT
Rig Up Length At Bottom:	0.00 FT
Rig Up Length Correction:	0.00 FT
Stretch Correction:	6.00 FT
Tool Zero Check At Surface:	0.20 FT

Depth Control Remarks	
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1. All Schlumberger depth policy procedures applied
2. This is the primary depth reference
- 3.
- 4.
- 5.
- 6.

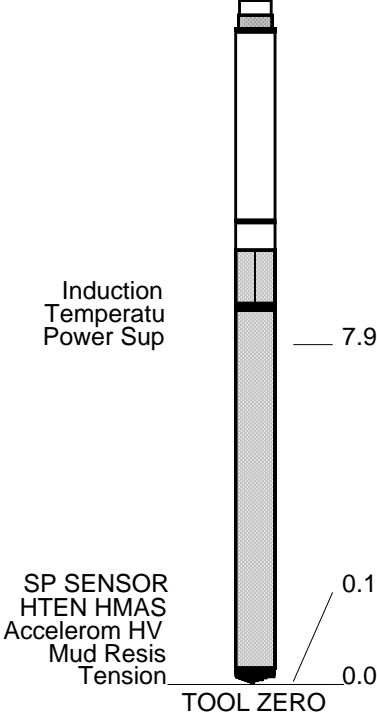
- DISCLAIMER
- THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON 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.

OTHER SERVICES1	OTHER SERVICES2
OS1:	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
1) All Schlumberger depth control policies followed for first run in hole	
2) Toolstring as per toolsketch	
3) Matrices and densities annotated on Porosity log	
4) Rig Lags 111	

Crew: Mark Hoffman, Brent Westhoff	
Thank you for choosing Schlumberger	
<div>RUN 1</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div> <div> <div>11637220</div> <div>14C0-302</div> </div>	<div>RUN 2</div> <div> <div>SERVICE ORDER #:</div> <div>PROGRAM VERSION:</div> <div>FLUID LEVEL:</div> </div>
<div>LOGGED INTERVAL</div> <div>START</div> <div>STOP</div>	<div>LOGGED INTERVAL</div> <div>START</div> <div>STOP</div>

EQUIPMENT DESCRIPTION	
RUN 1	RUN 2
<div>SURFACE EQUIPMENT</div> <div> <div>WITM (CTS)-A</div> <div>GSR-U/Y</div> <div>NCT-B</div> <div>CNB-AB</div> </div> <div>NCS-VB</div>	
<div>DOWNHOLE EQUIPMENT</div> <div> <div> <div>LEH-QT</div> <div>LEH-QT</div> <div> <div>HGNS HTEM</div> <div>HMCA</div> <div>TelStatus</div> <div>CTEM</div> </div> <div> <div>HILTB-CTS</div> <div>HGNSC-B 940</div> <div>HMCA</div> <div>TCC-B</div> <div>HGNH</div> <div>NLS-KL</div> <div>NSR-F 5068</div> <div>HACCZ</div> <div>HCNT</div> <div>HGR</div> <div>HRCC-B 1866</div> <div>HRMS-B 184</div> <div>HRGD-B 1748</div> <div>GLS-VJ 1827</div> <div>MCFL Device</div> <div>HILT Nucl. LS</div> <div>HILT Nucl. SS</div> <div>HILT Nucl. BS</div> <div>AIT-H</div> <div>AHIS-BA 397</div> <div>AHRM-A</div> <div>NPV-N</div> </div> <div> <div>HGNS Gamm</div> <div> <div>HGNS Neut</div> <div>HGNS Neut</div> </div> <div>HGNS sens</div> <div>HRCC cart</div> <div> <div>MCFL</div> <div>HILT cali</div> <div>HRDD-LS</div> <div>HRDD-SS</div> <div>HRDD-BS</div> </div> </div> <div> <div>40.6</div> <div> <div>37.6</div> <div>36.9</div> </div> <div>37.6</div> <div> <div>31.1</div> <div>30.6</div> </div> <div>28.2</div> <div>24.2</div> <div> <div>18.8</div> <div>18.3</div> <div>17.9</div> </div> </div> </div> </div>	

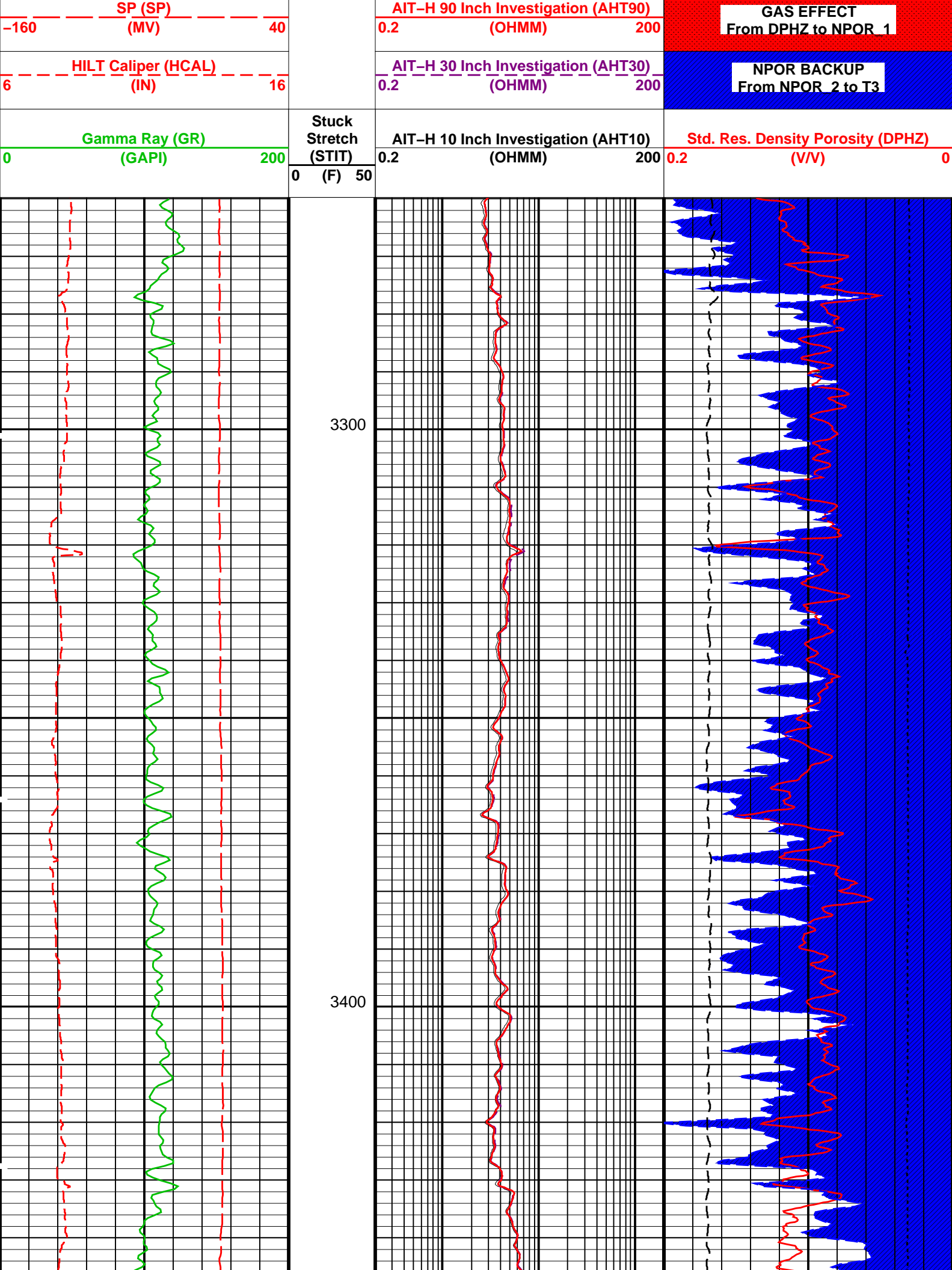


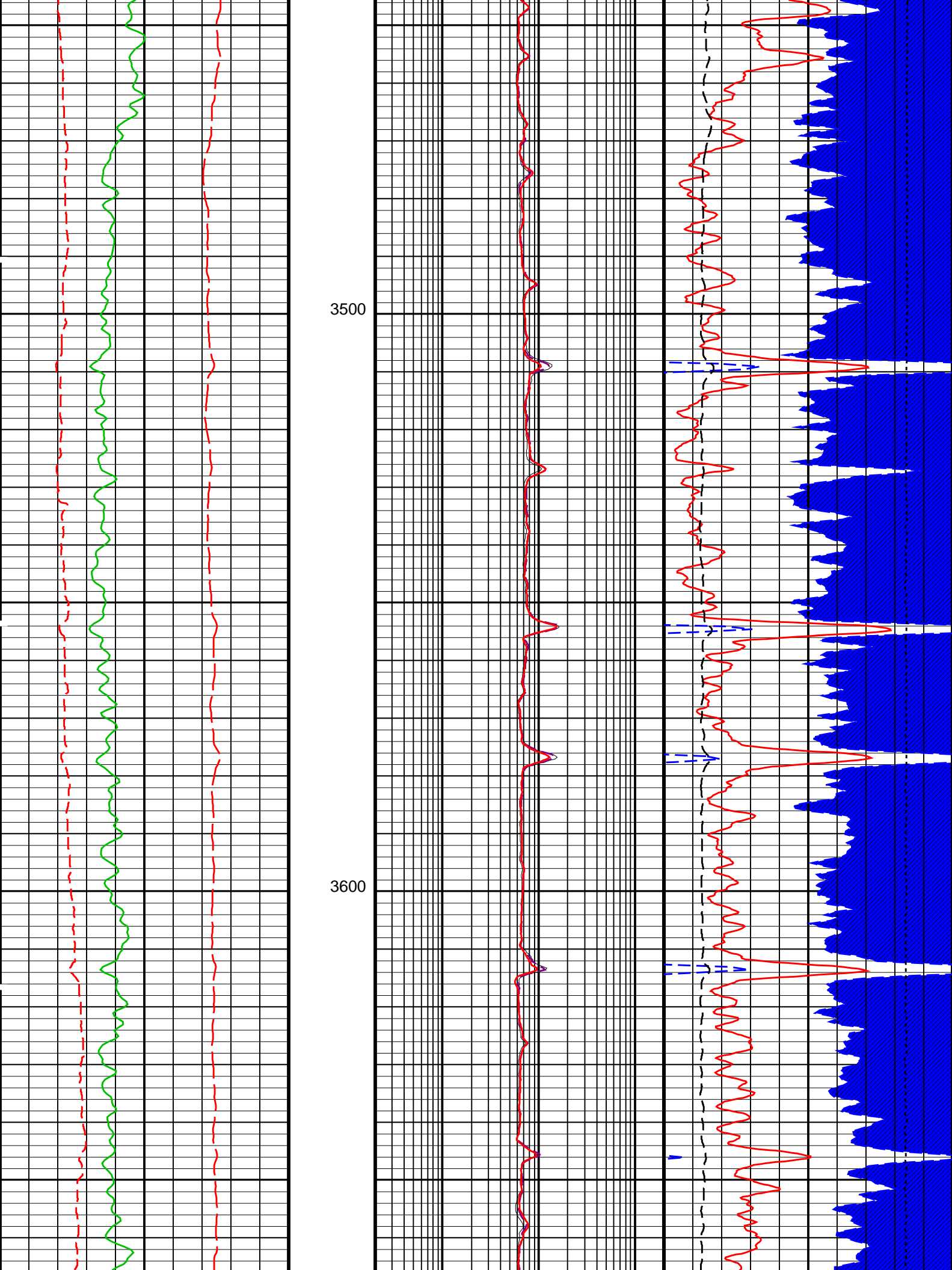
MAXIMUM STRING DIAMETER 4.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN FEET

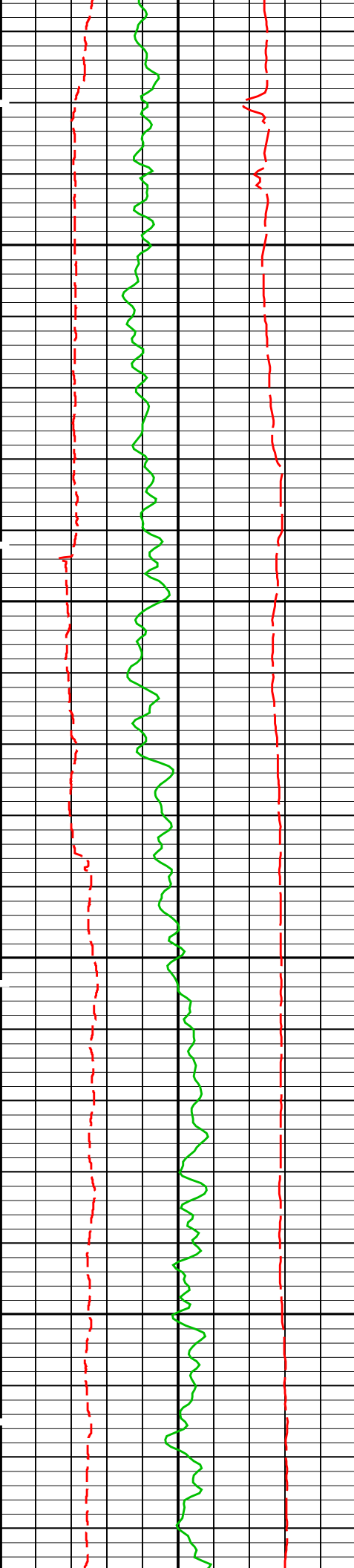
Production String	(in)		(ft)	Well Schematic	(ft)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	8.625		Casing String, 24.0 lbm/ft
					856.0 856.0	8.625 7.875		Casing Shoe Borehole Segment

All Depths Are Driller's Depths

		Tension (TENS)	
		10000	0
		(LBF)	

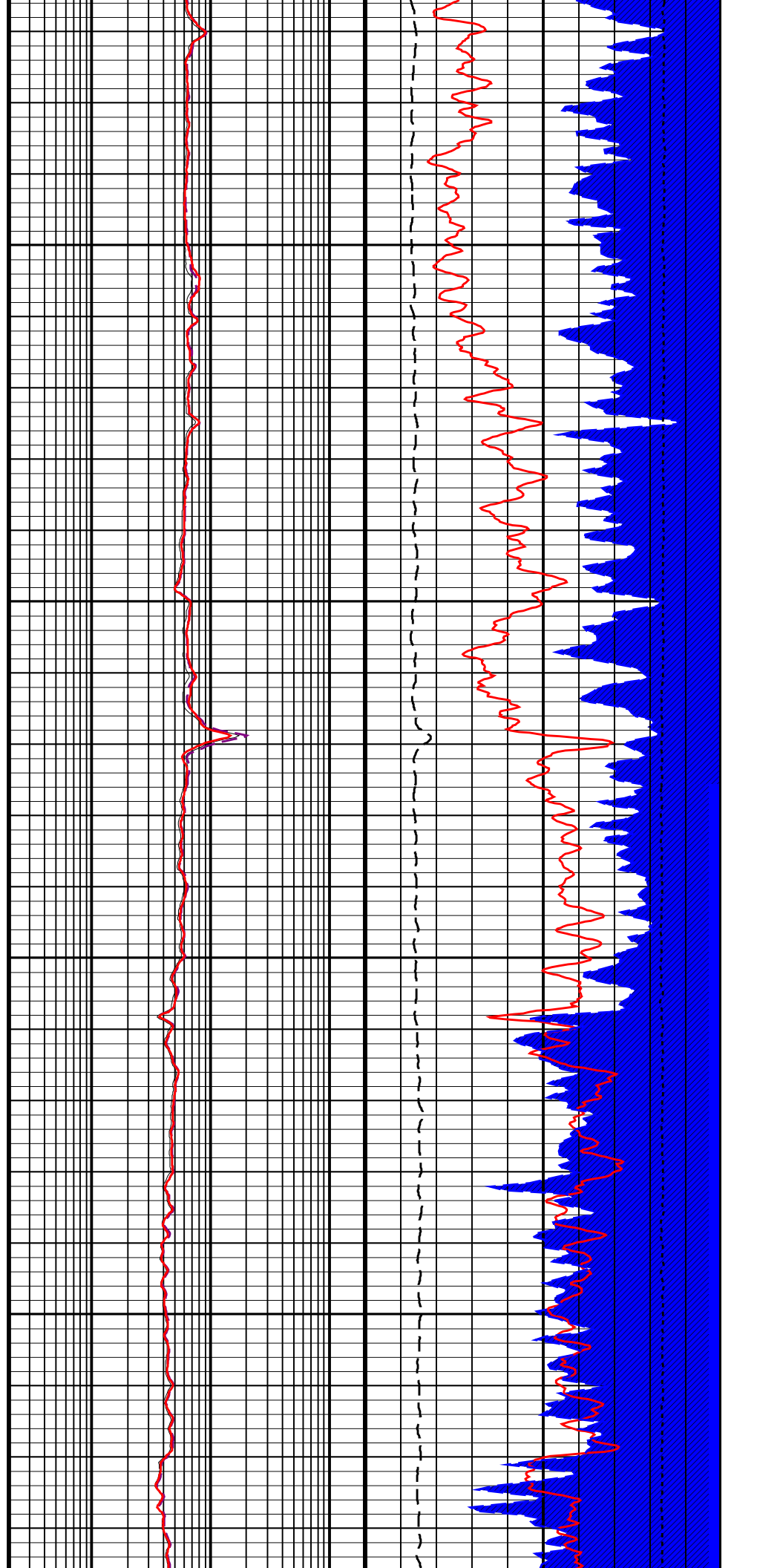


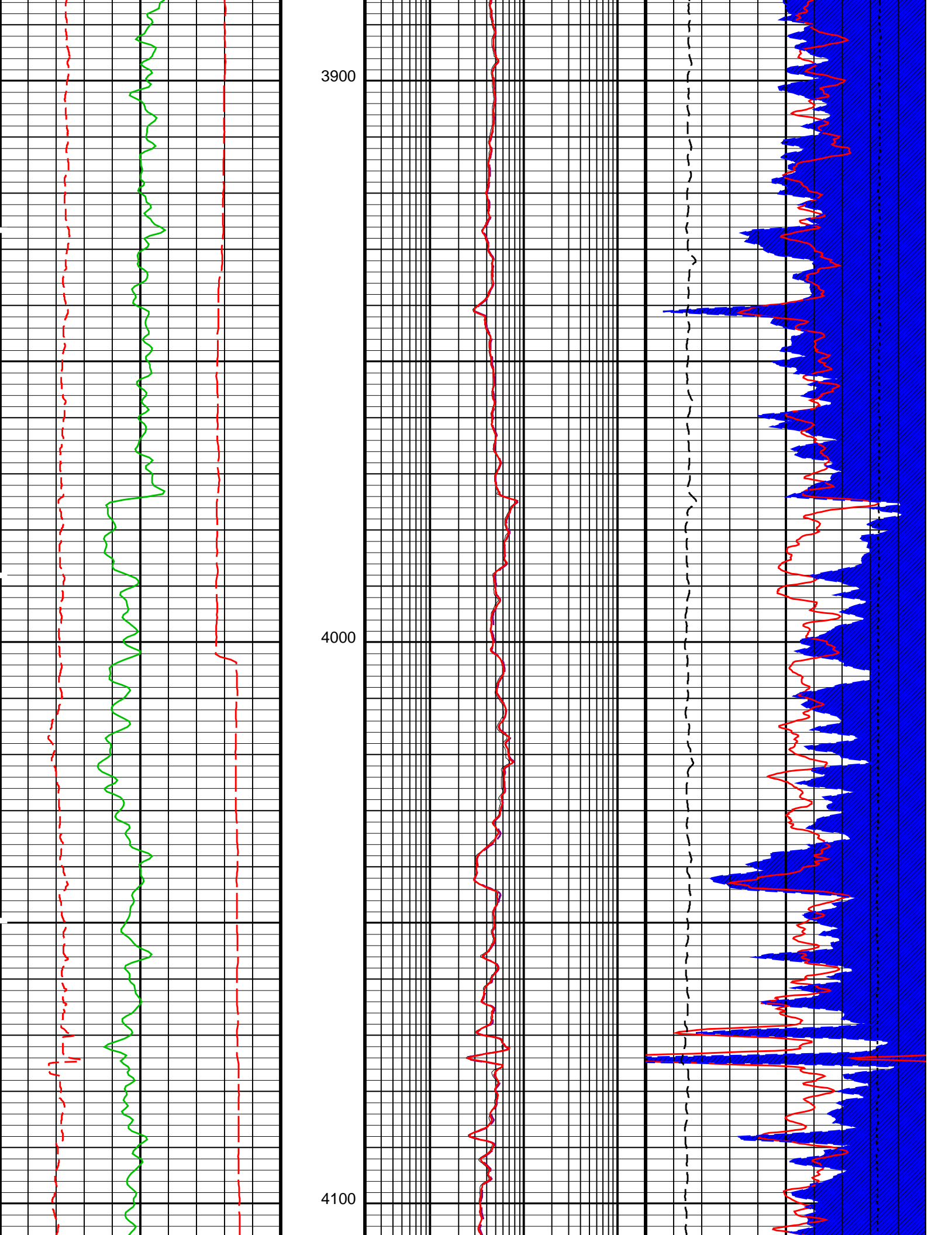


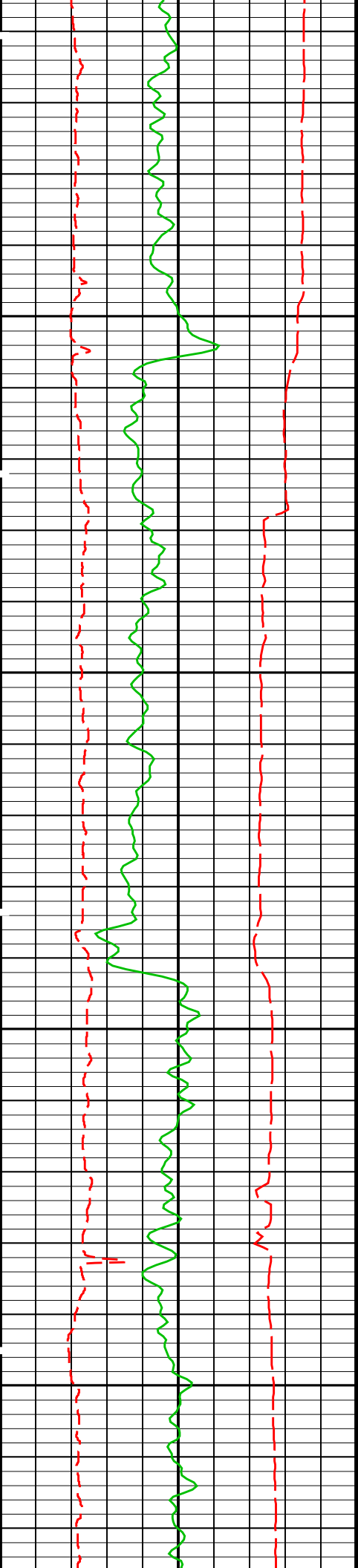


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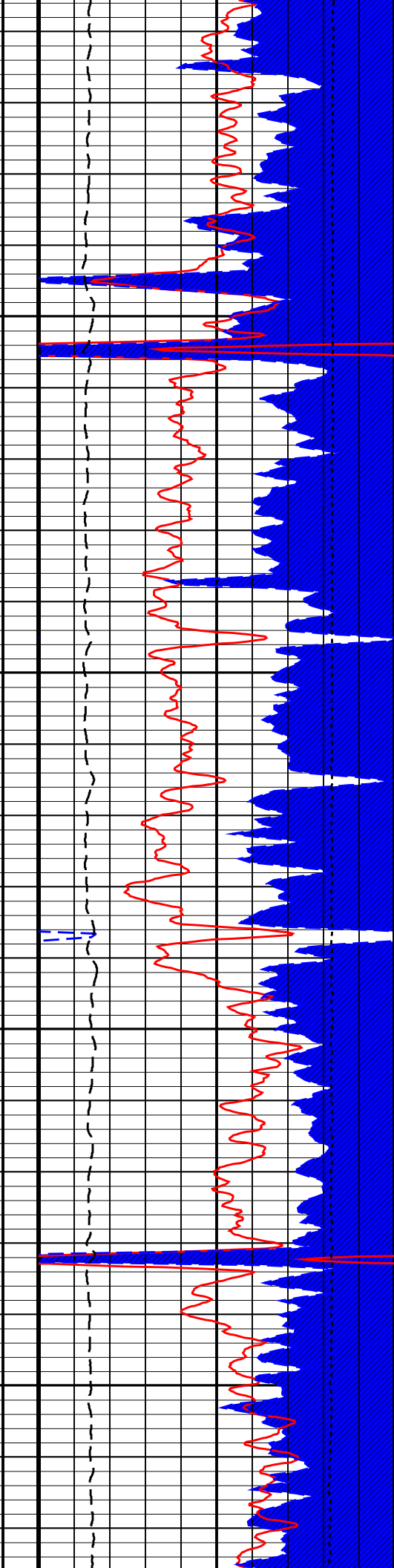
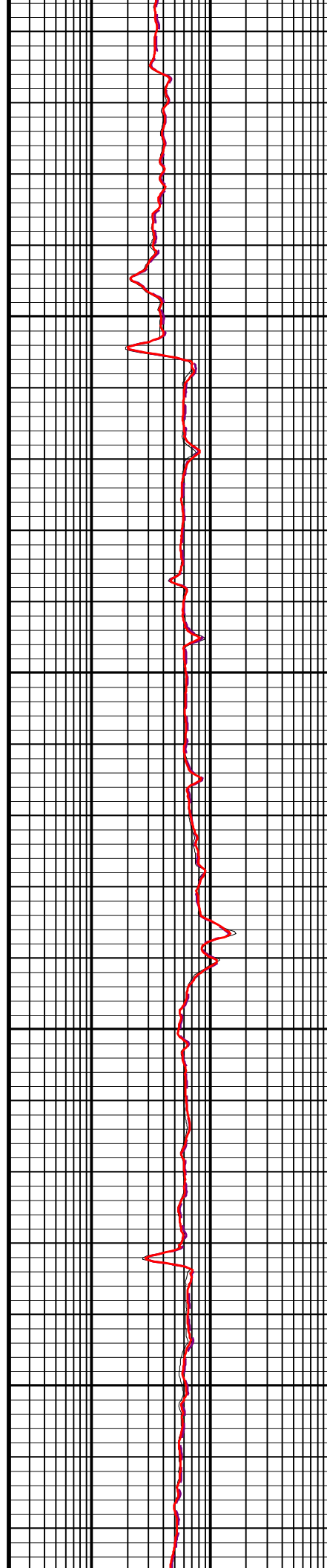


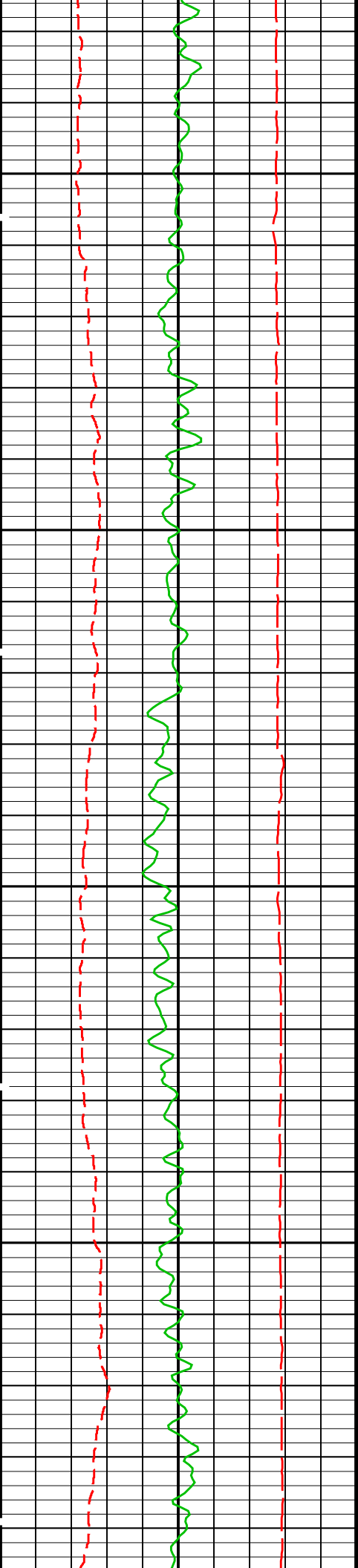




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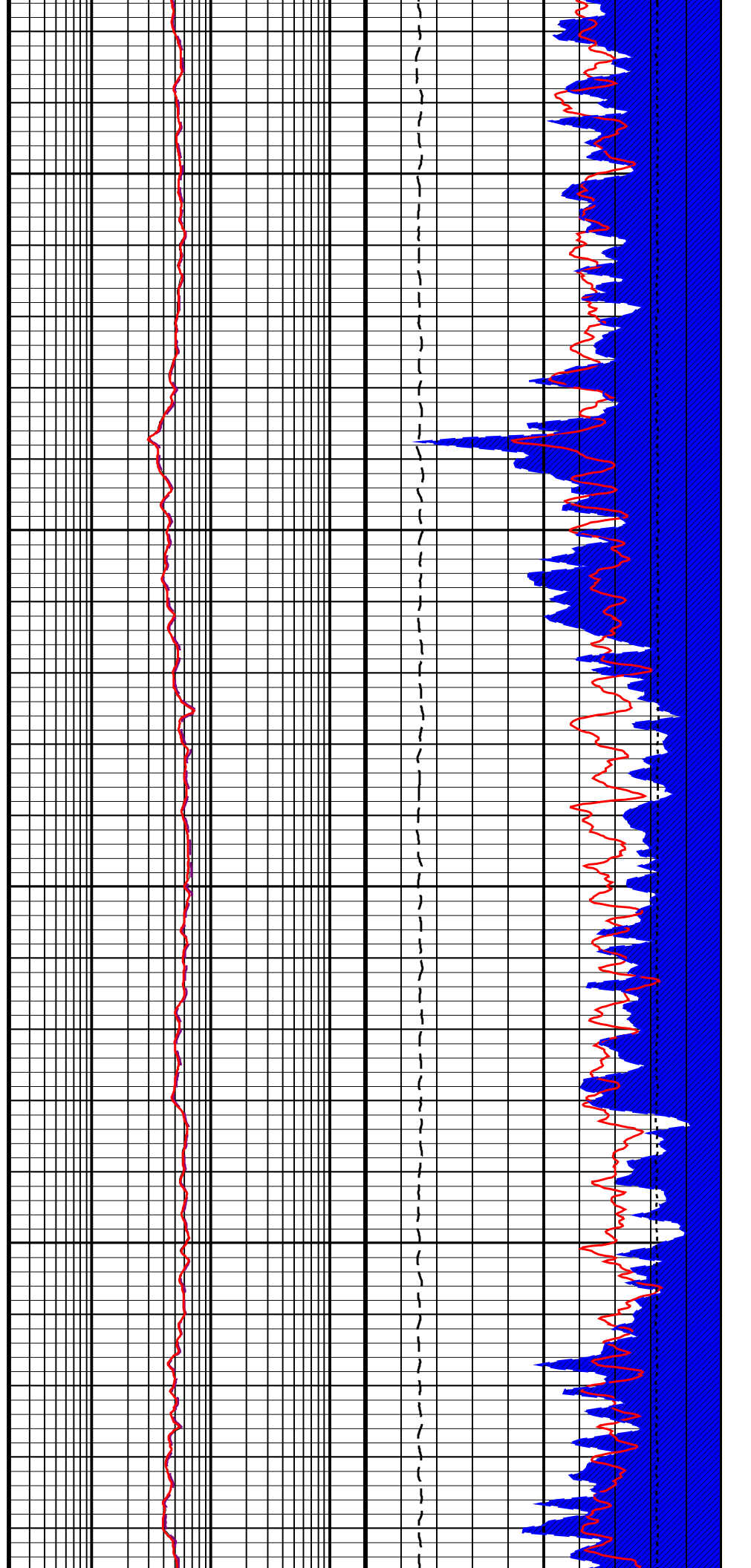
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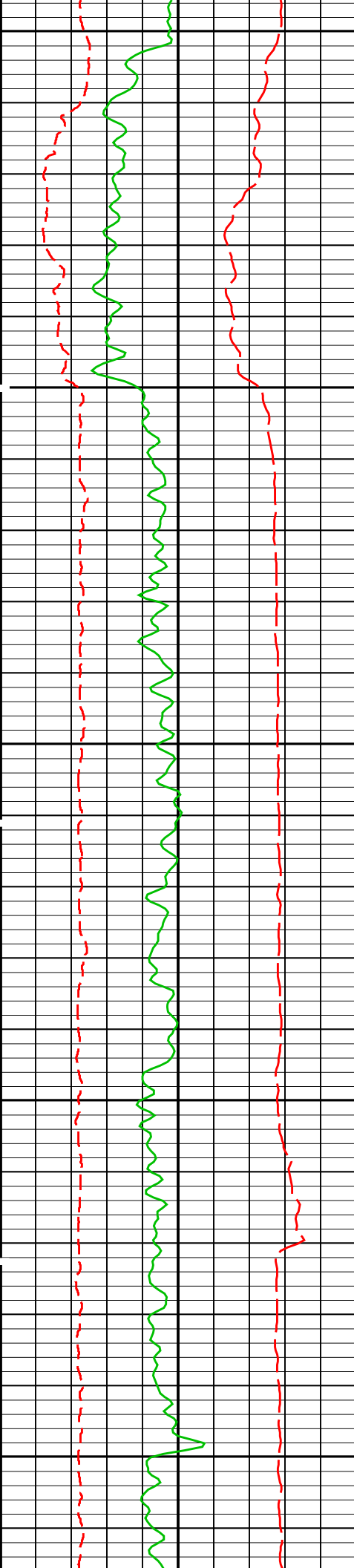




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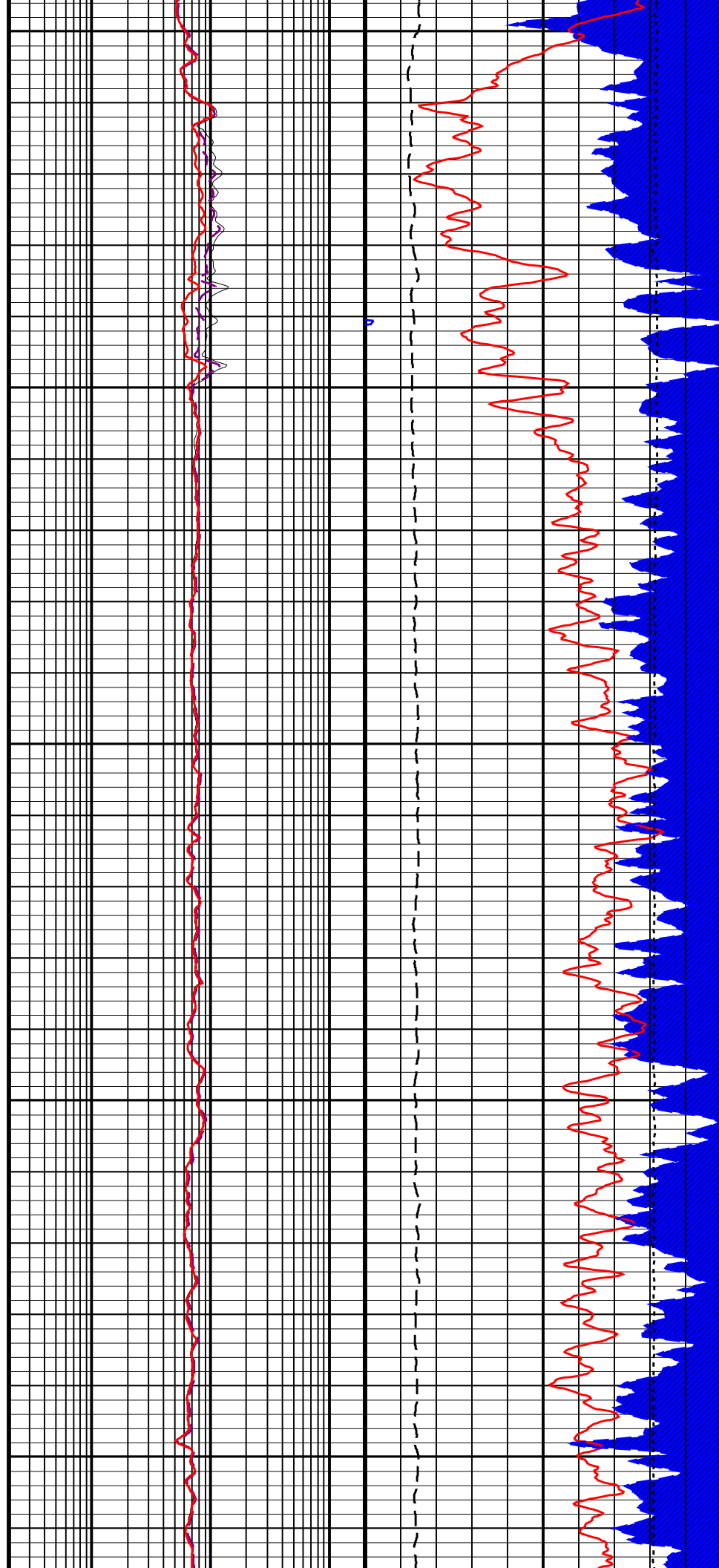
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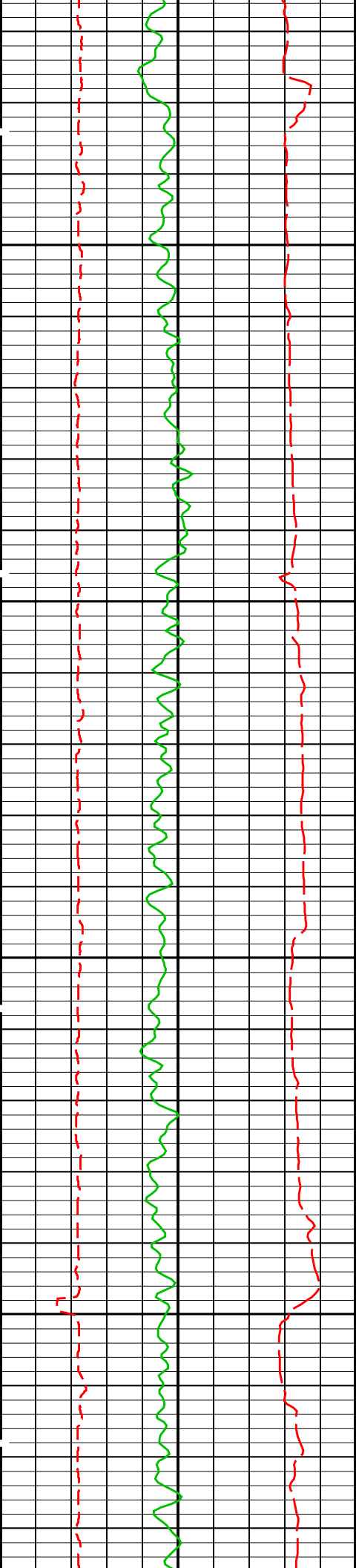




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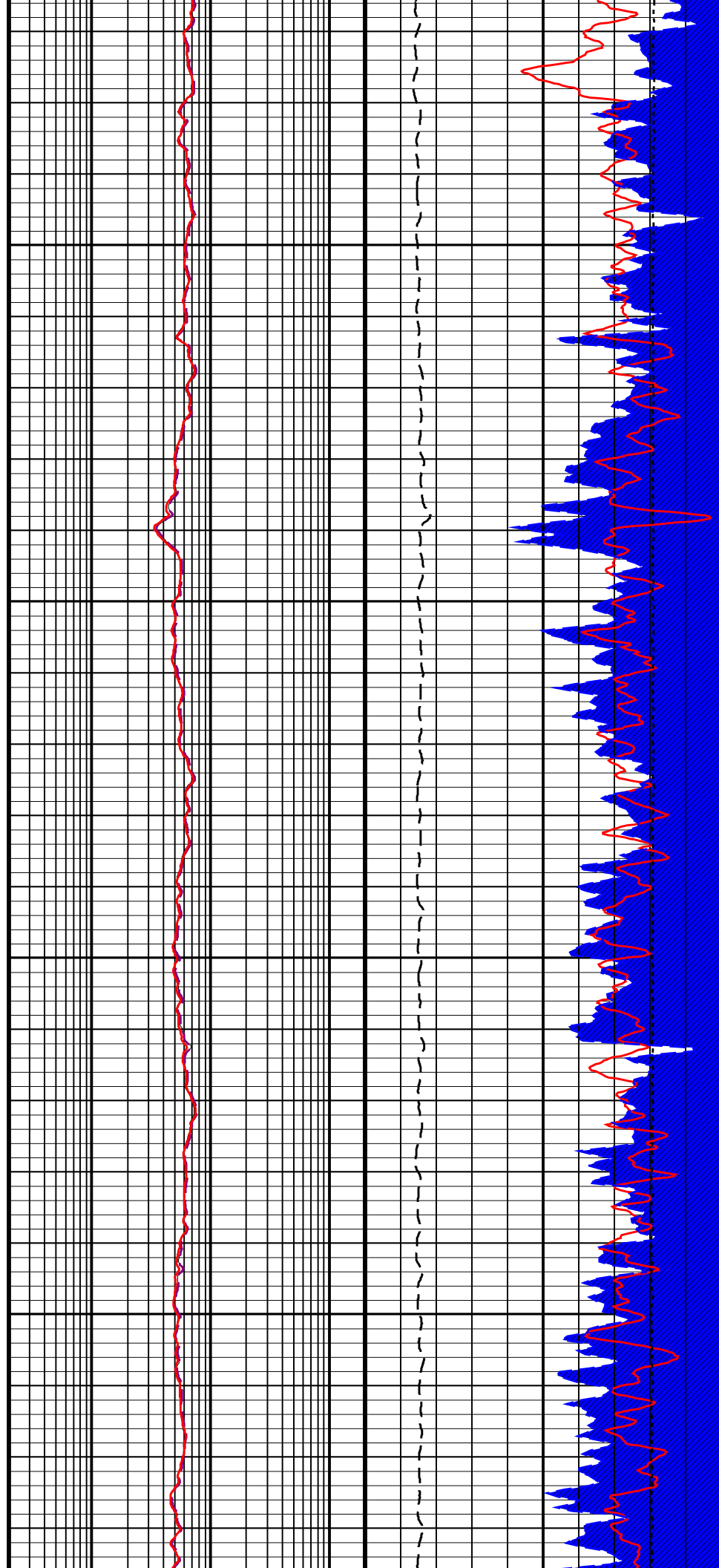
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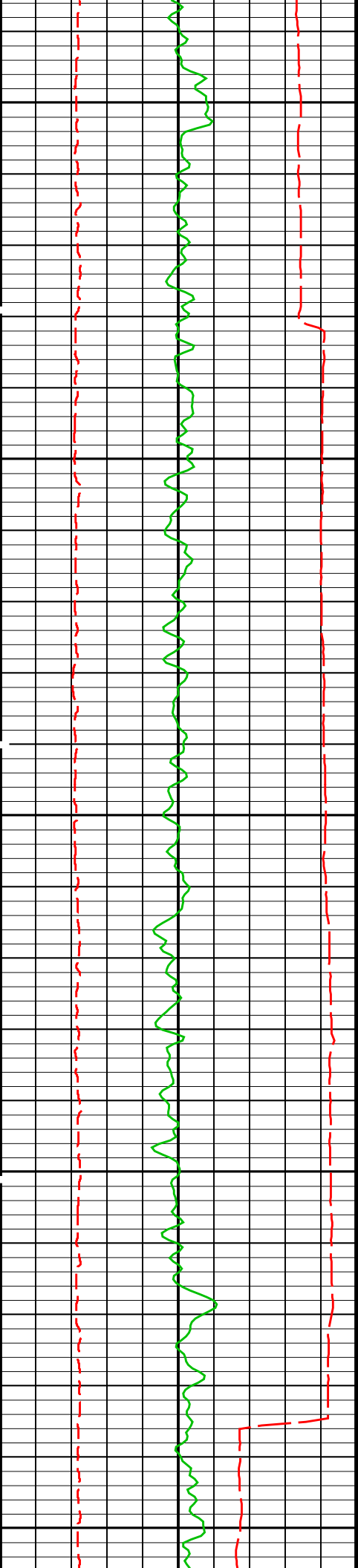




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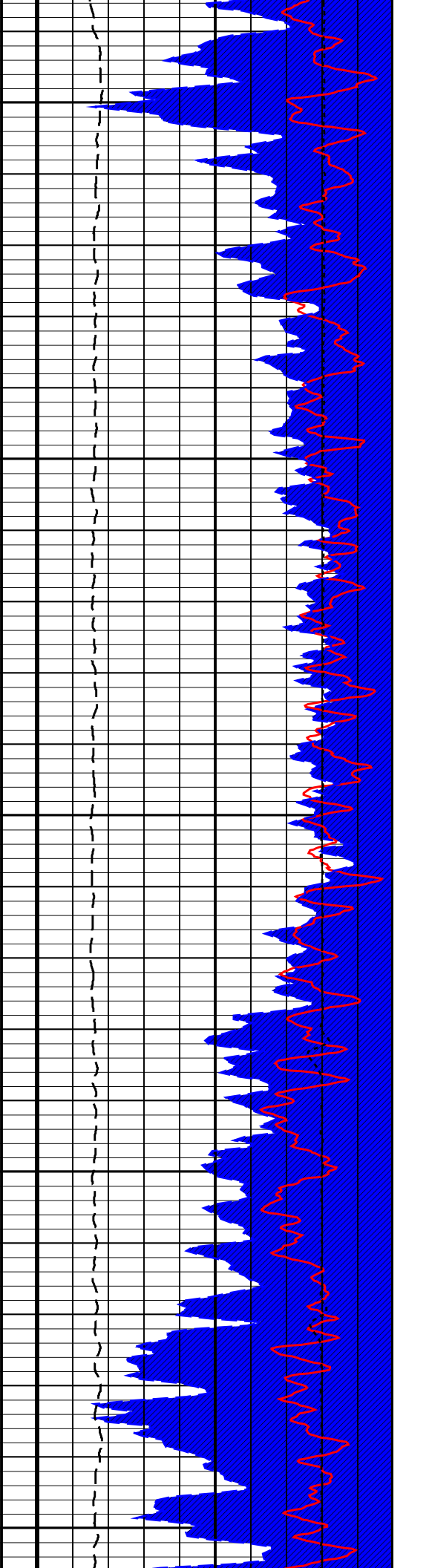
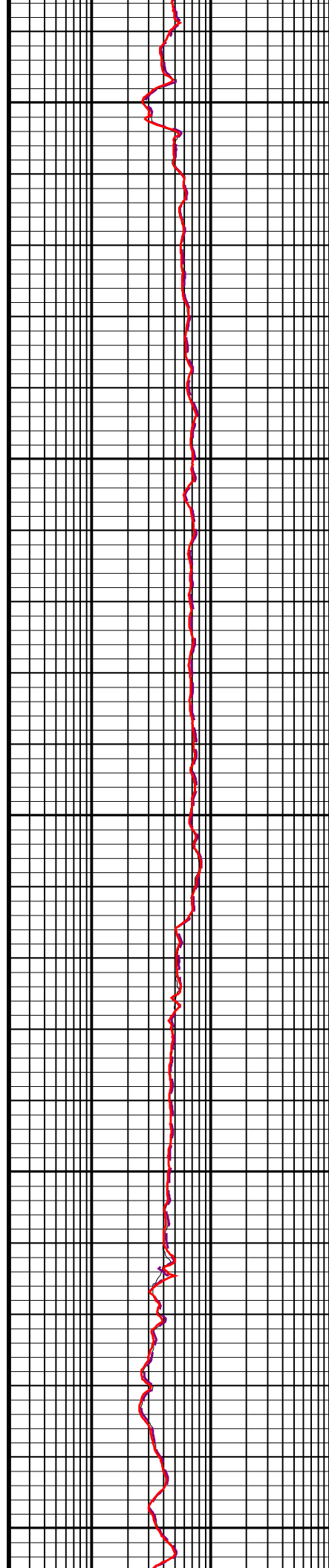


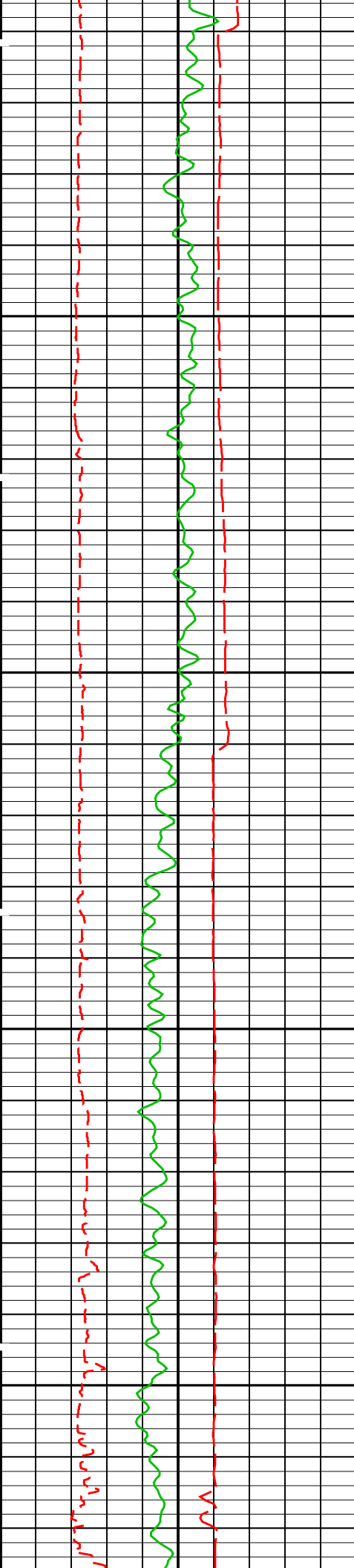


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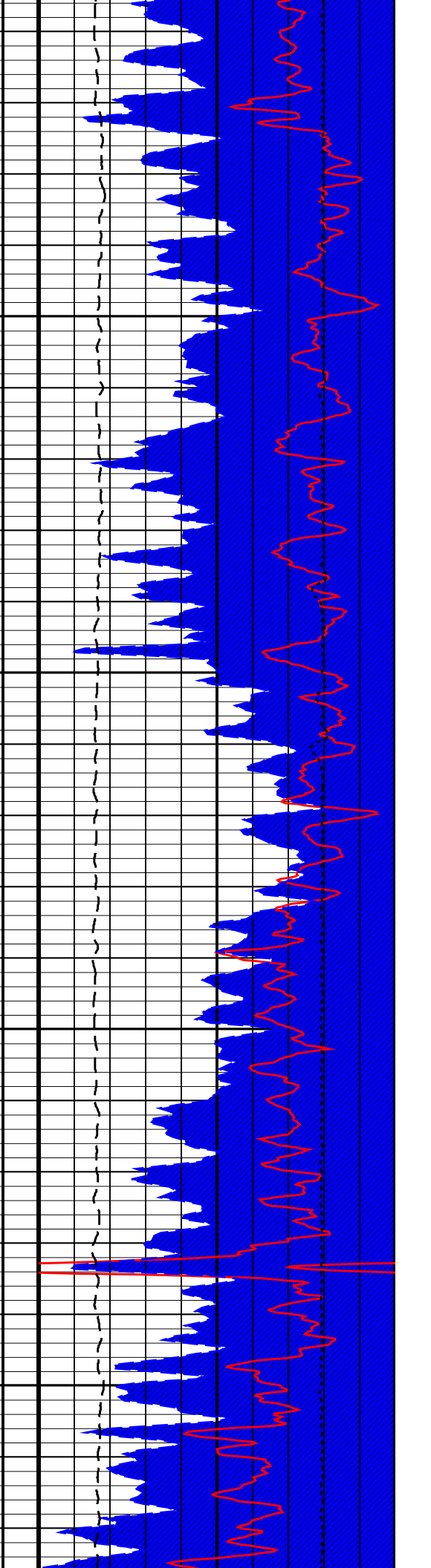
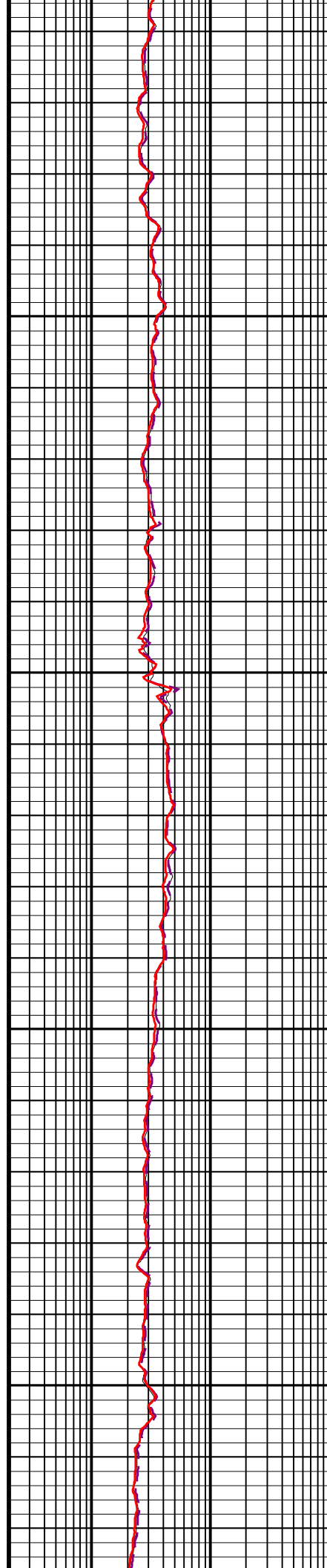
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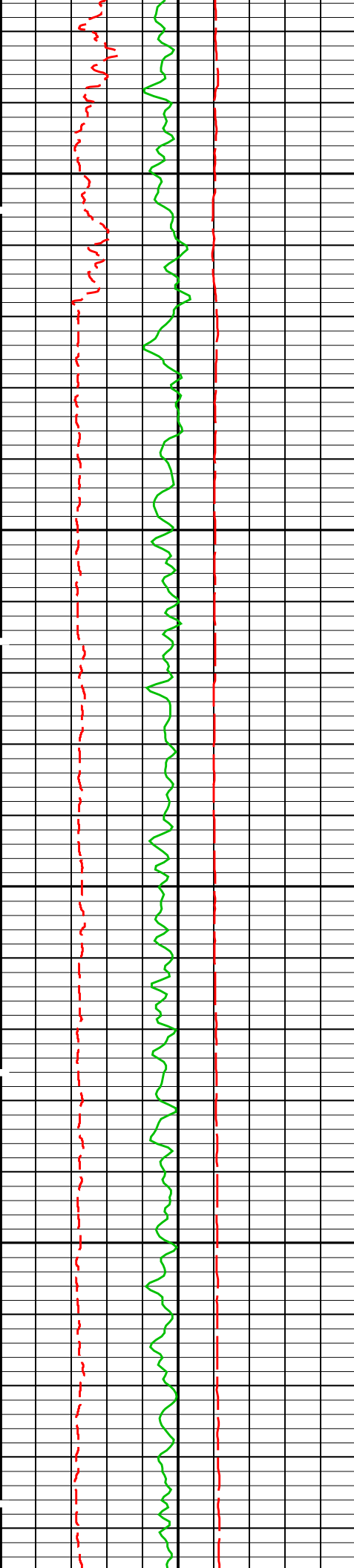




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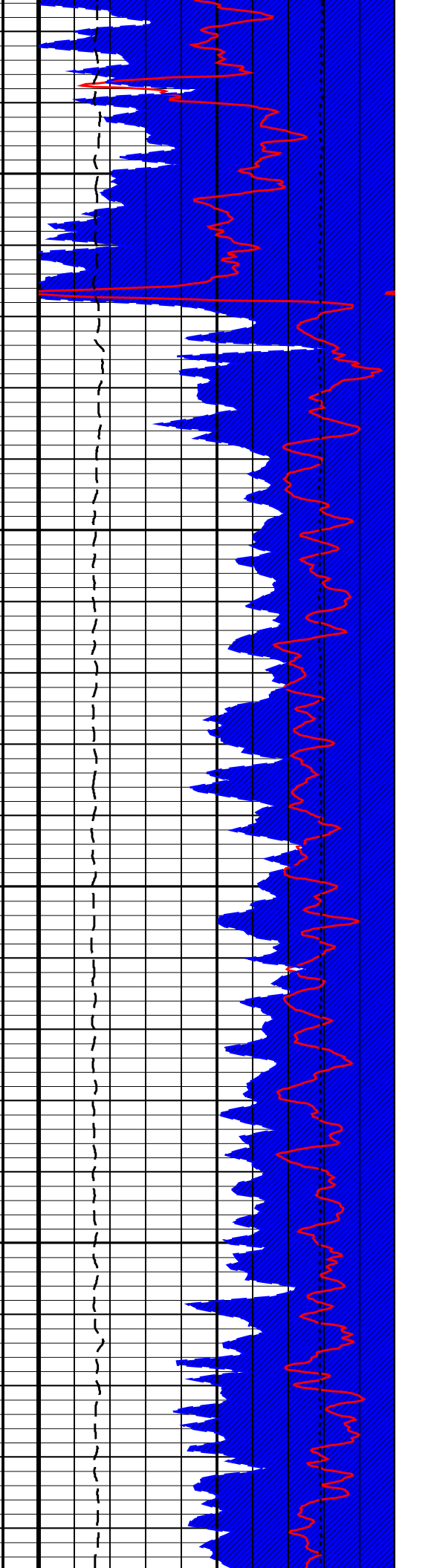
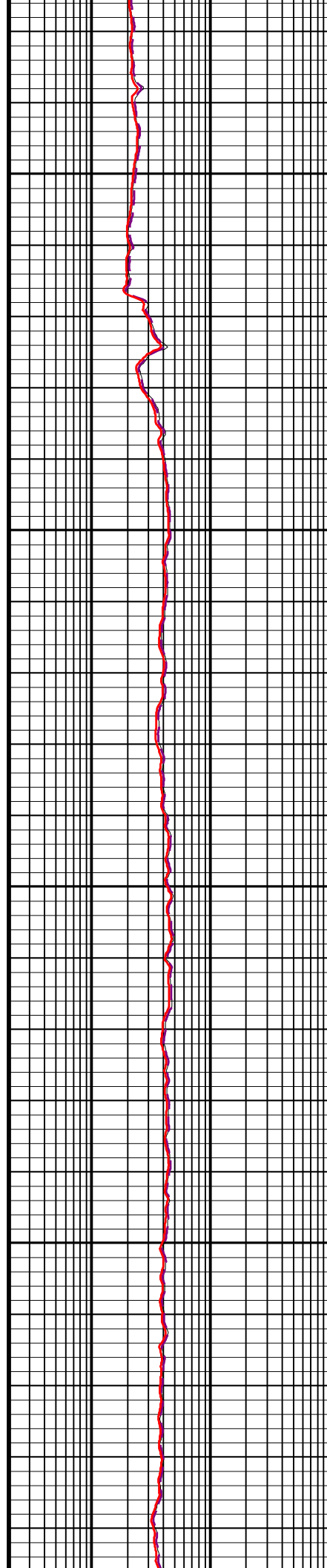
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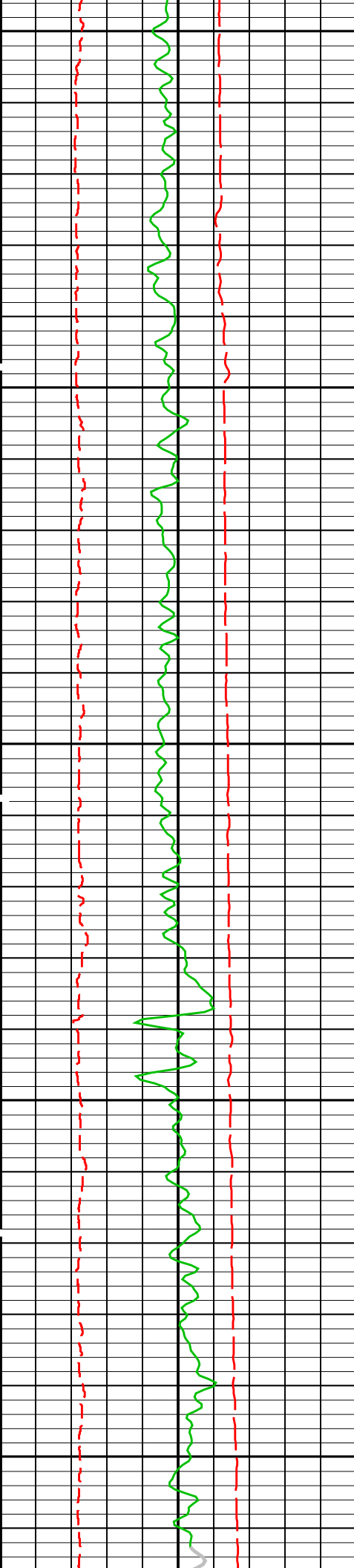




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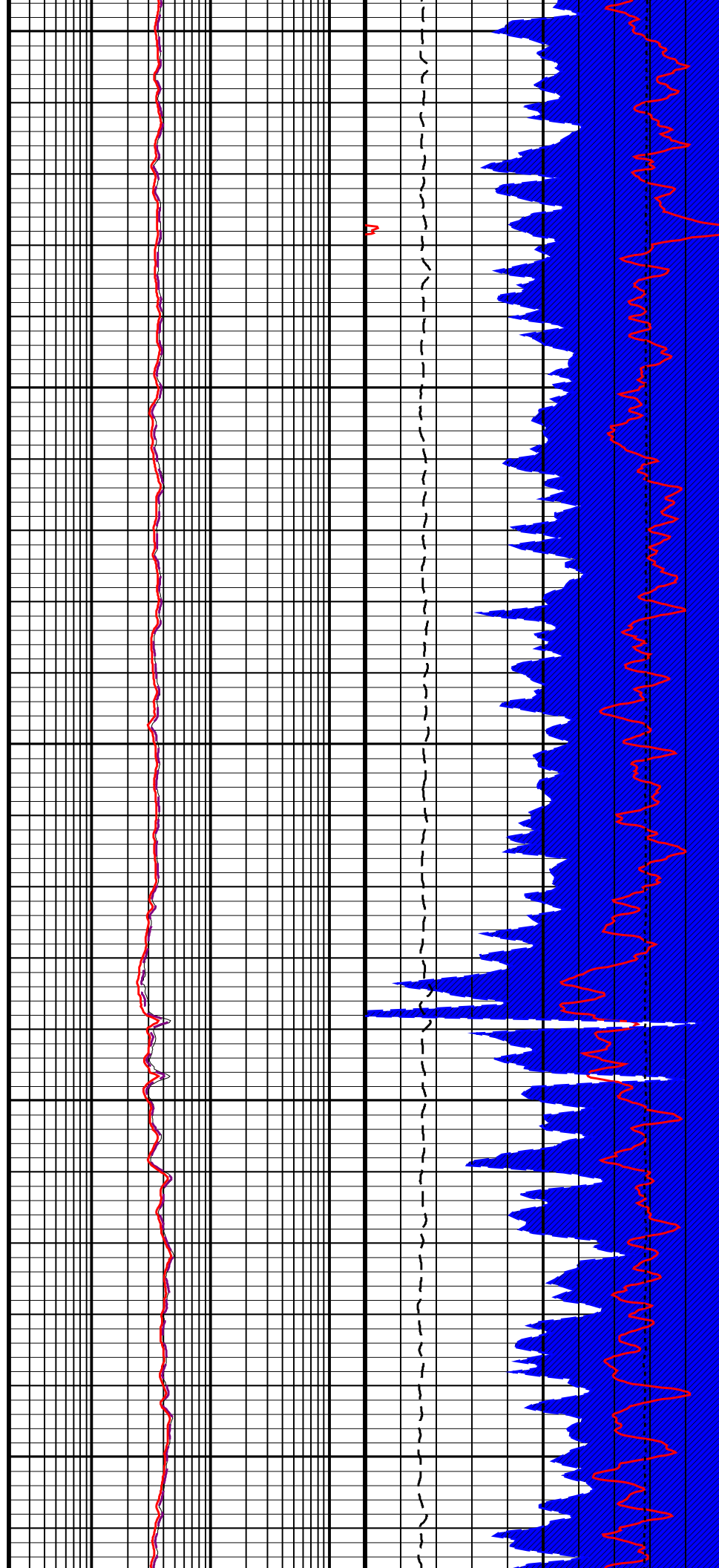
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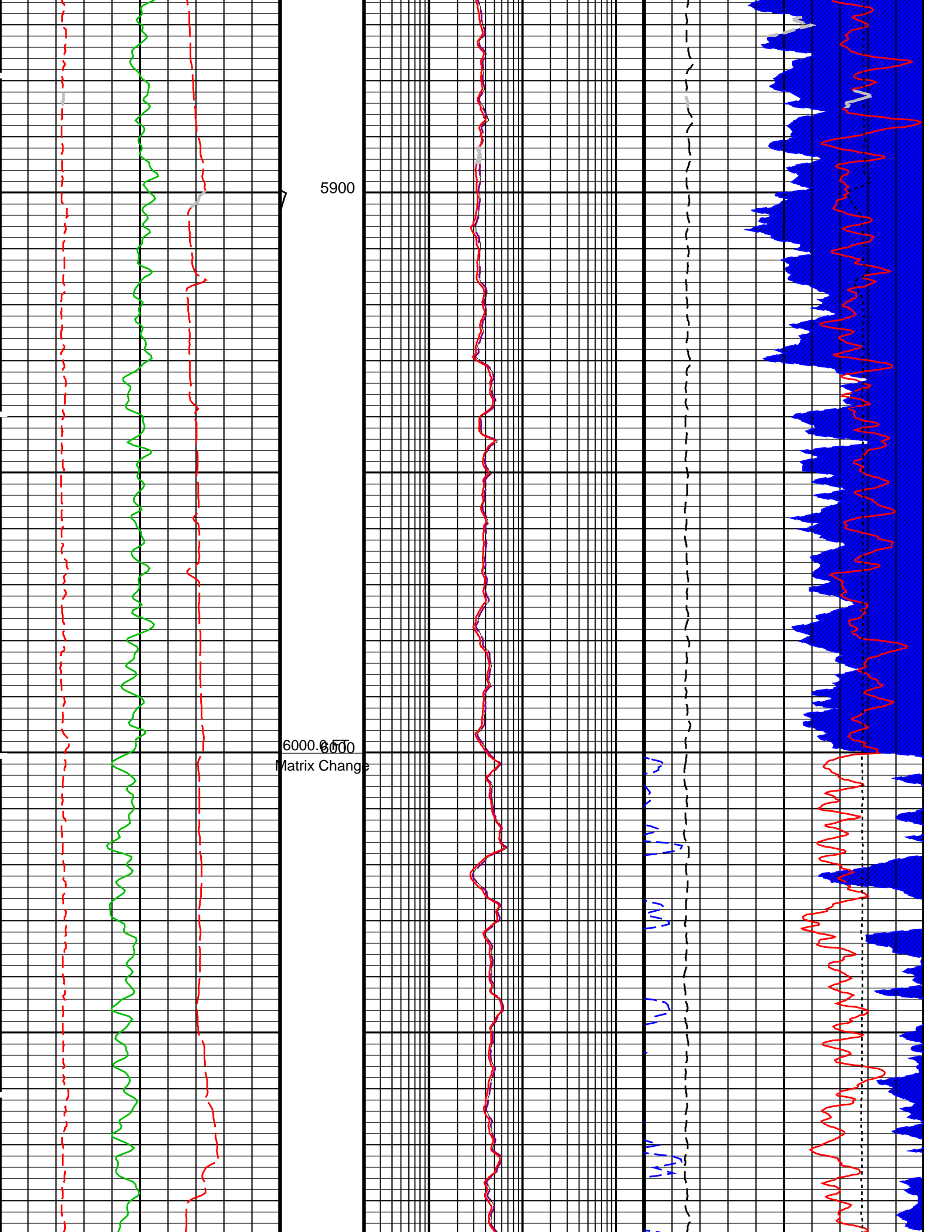


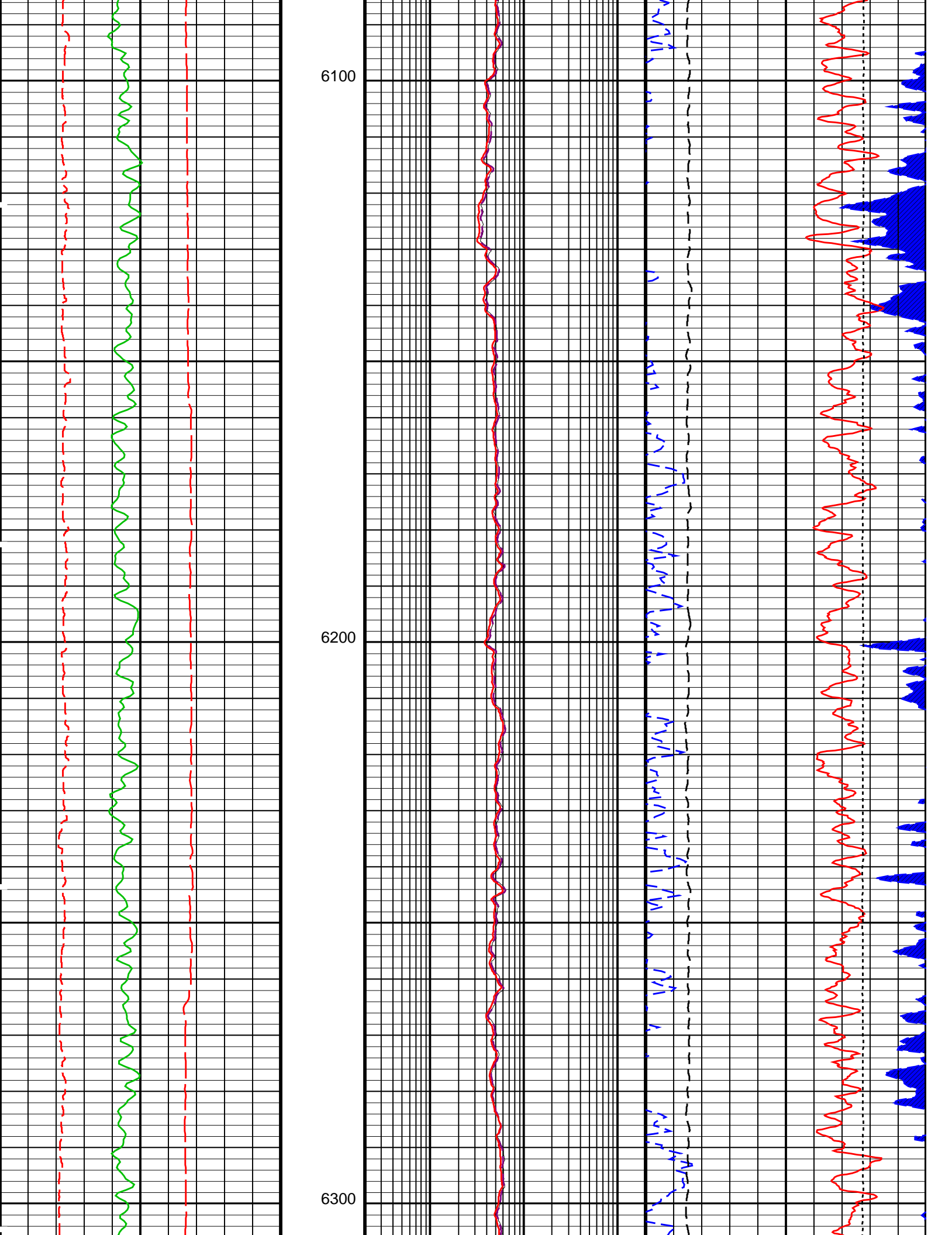


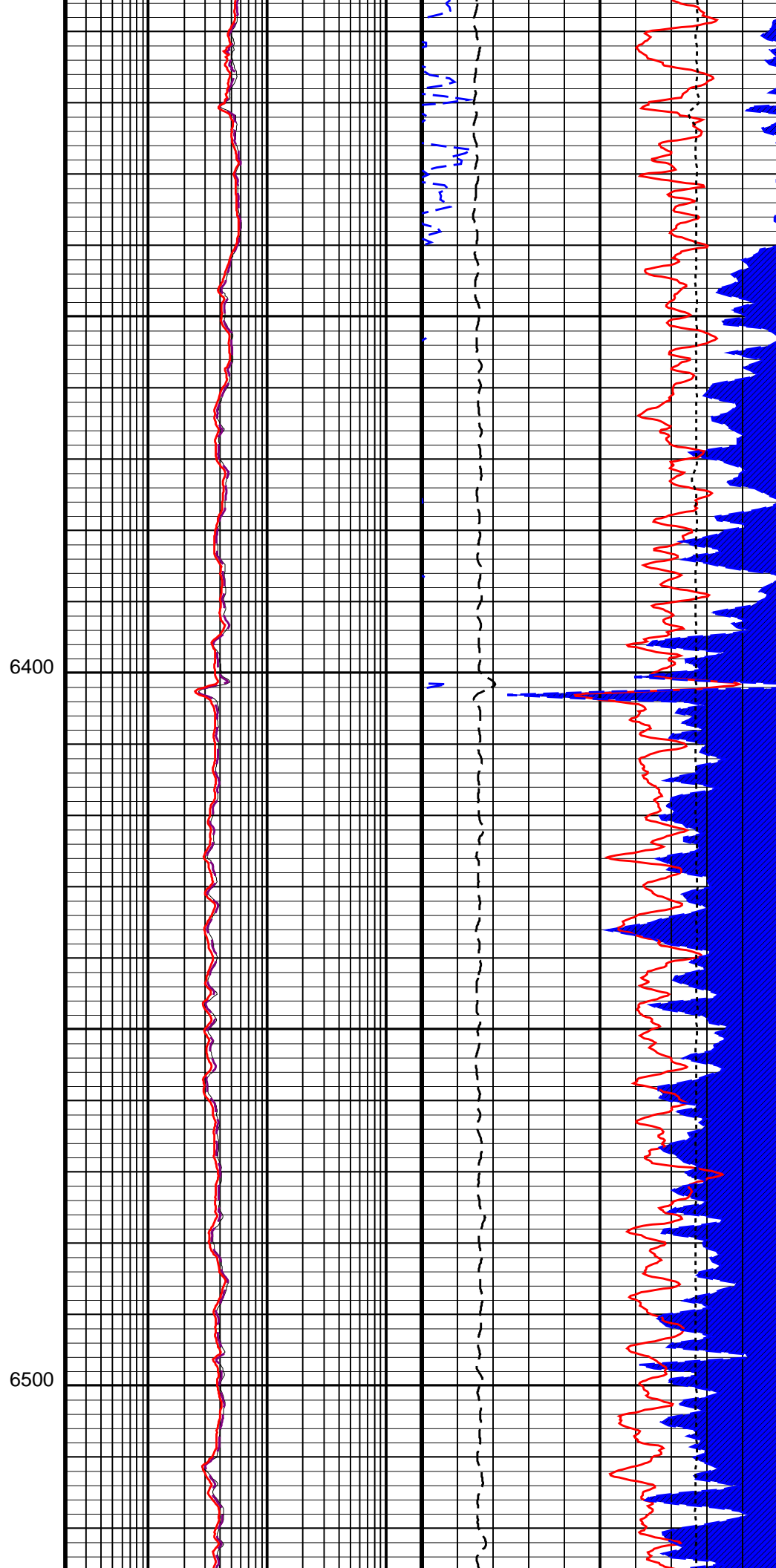
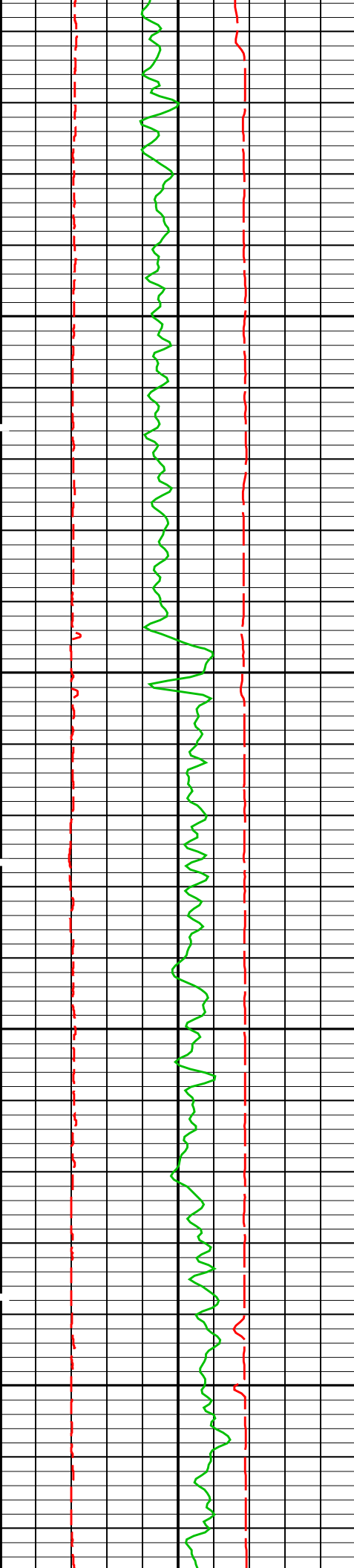
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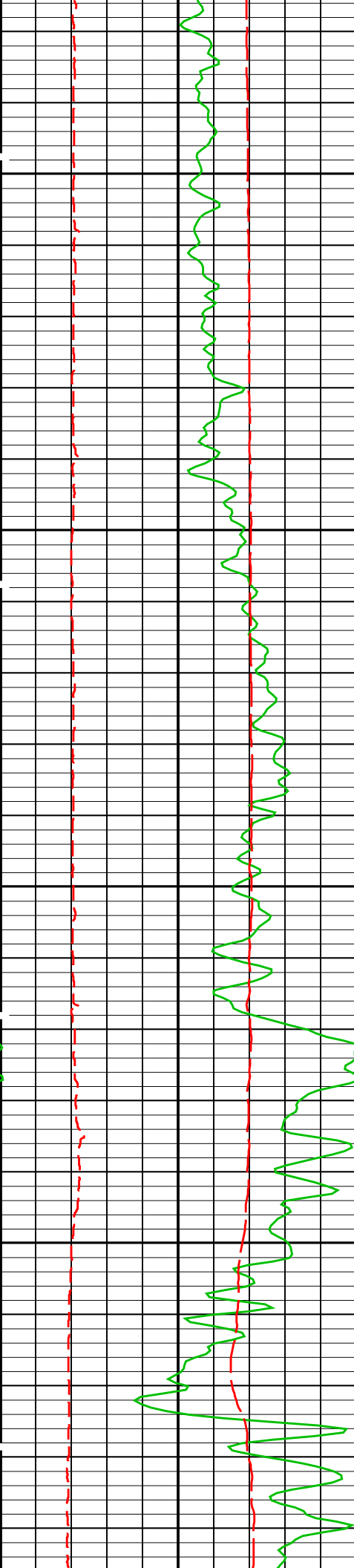
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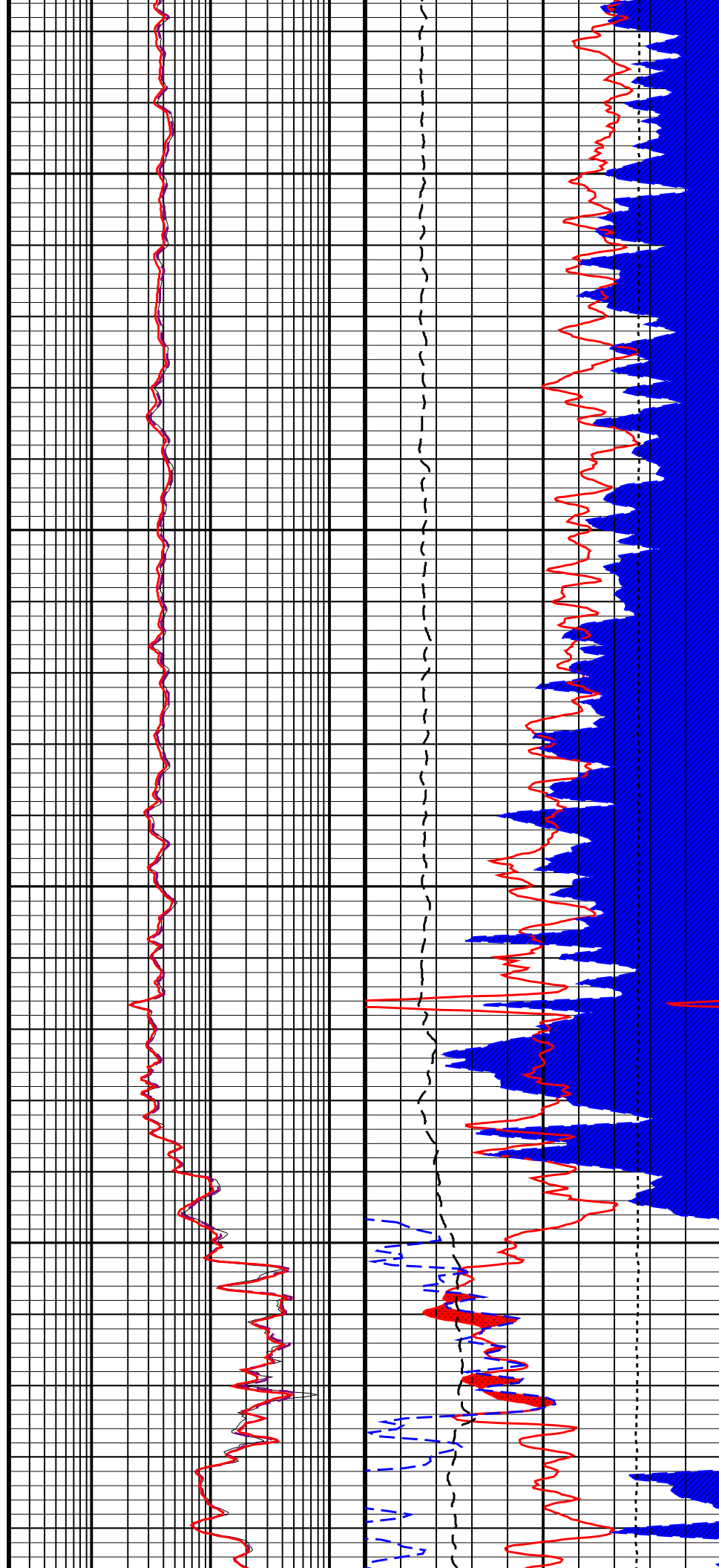


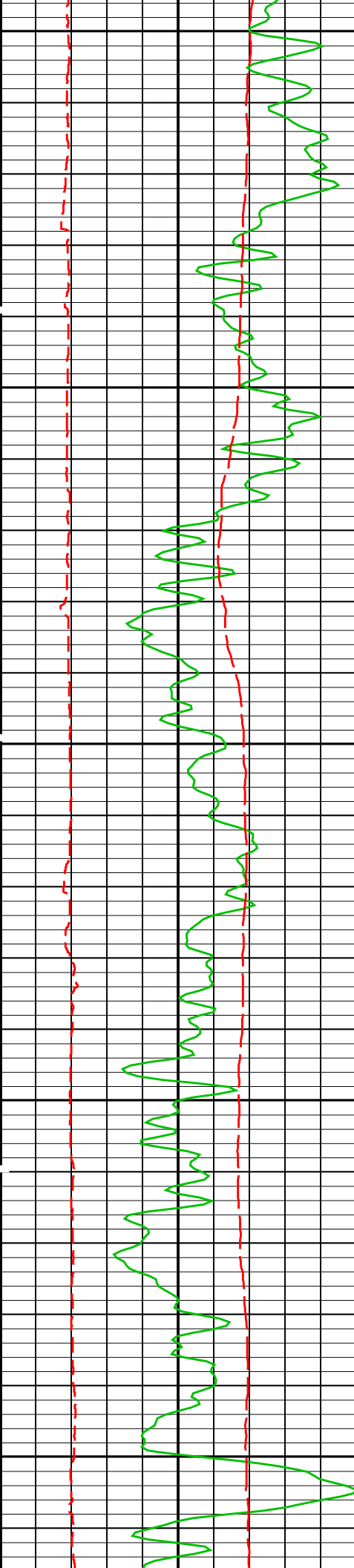




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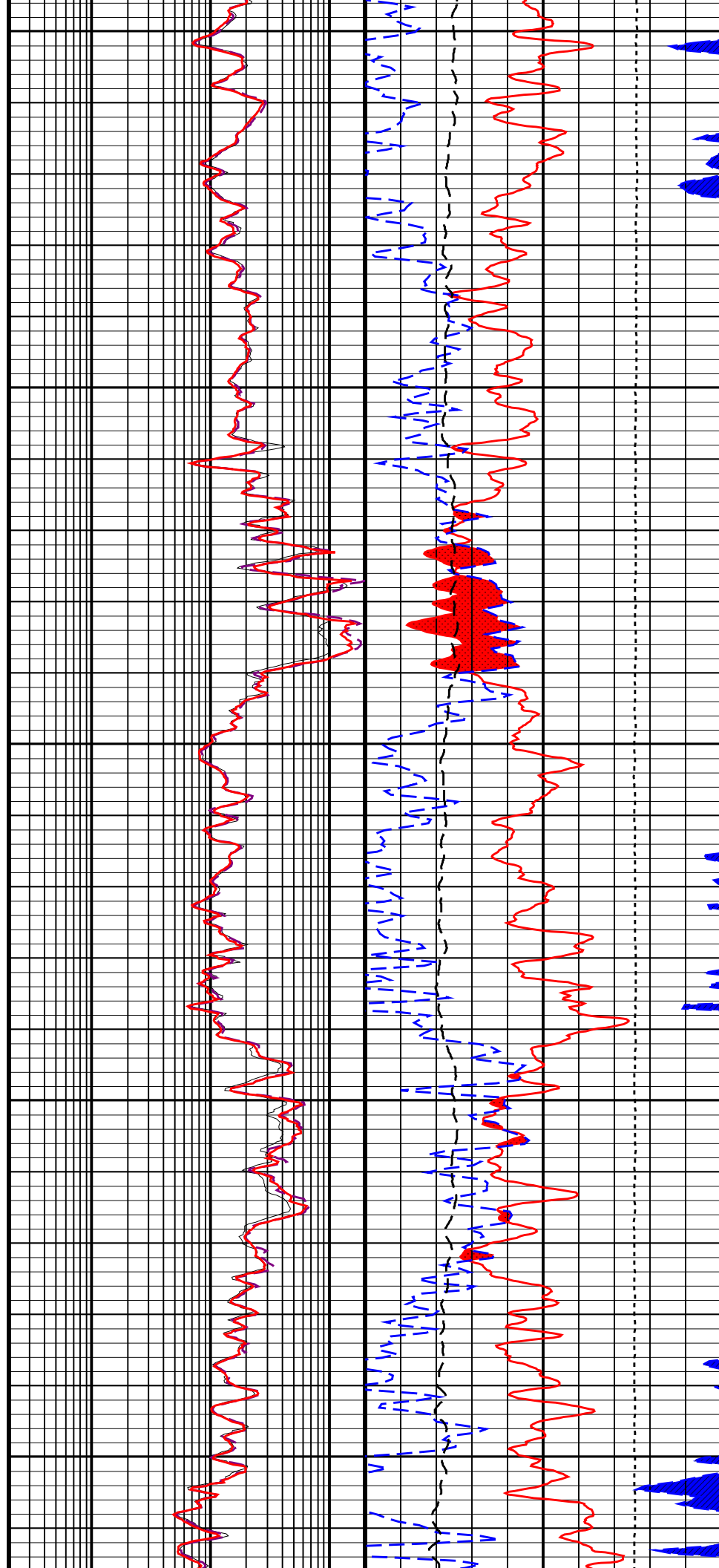
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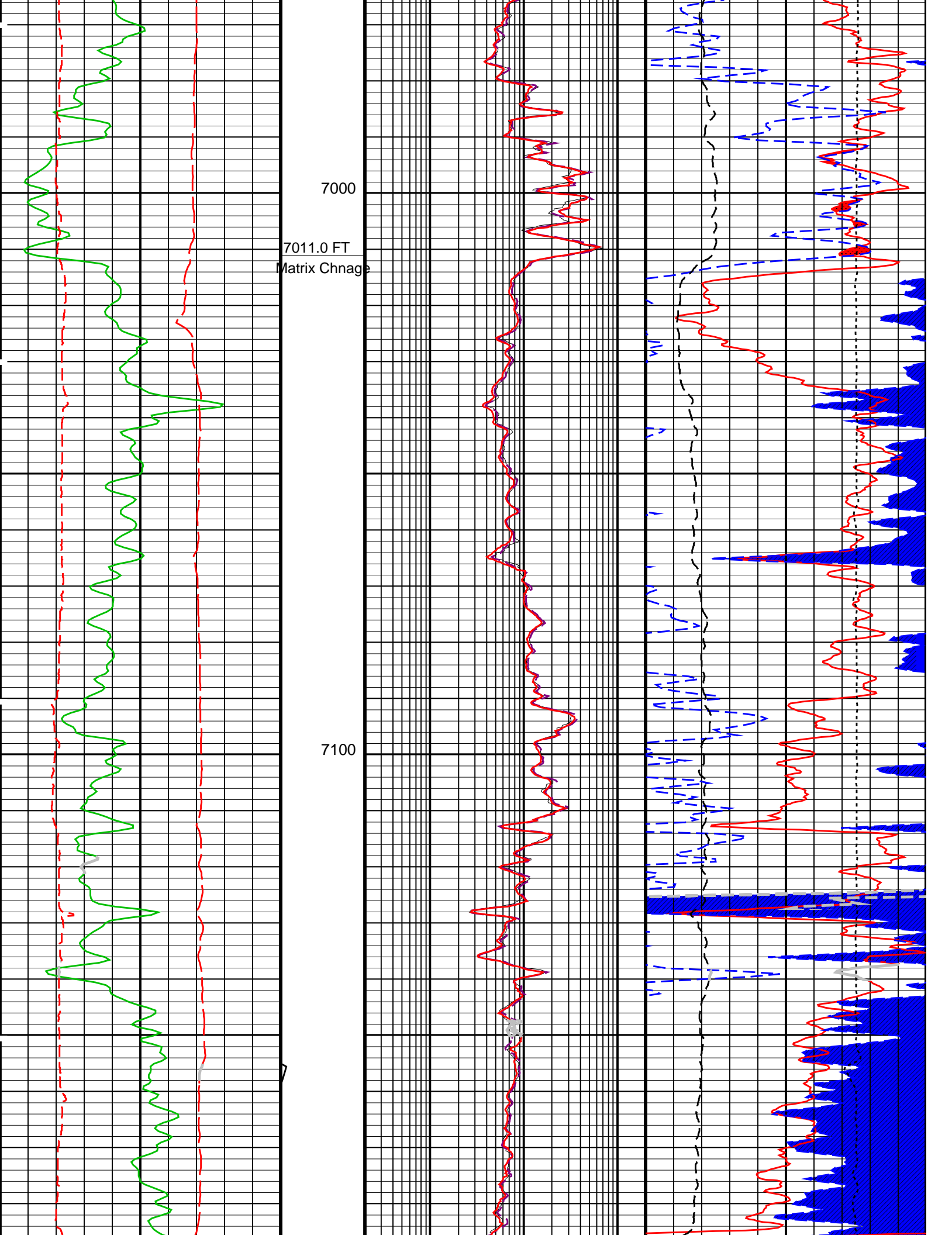


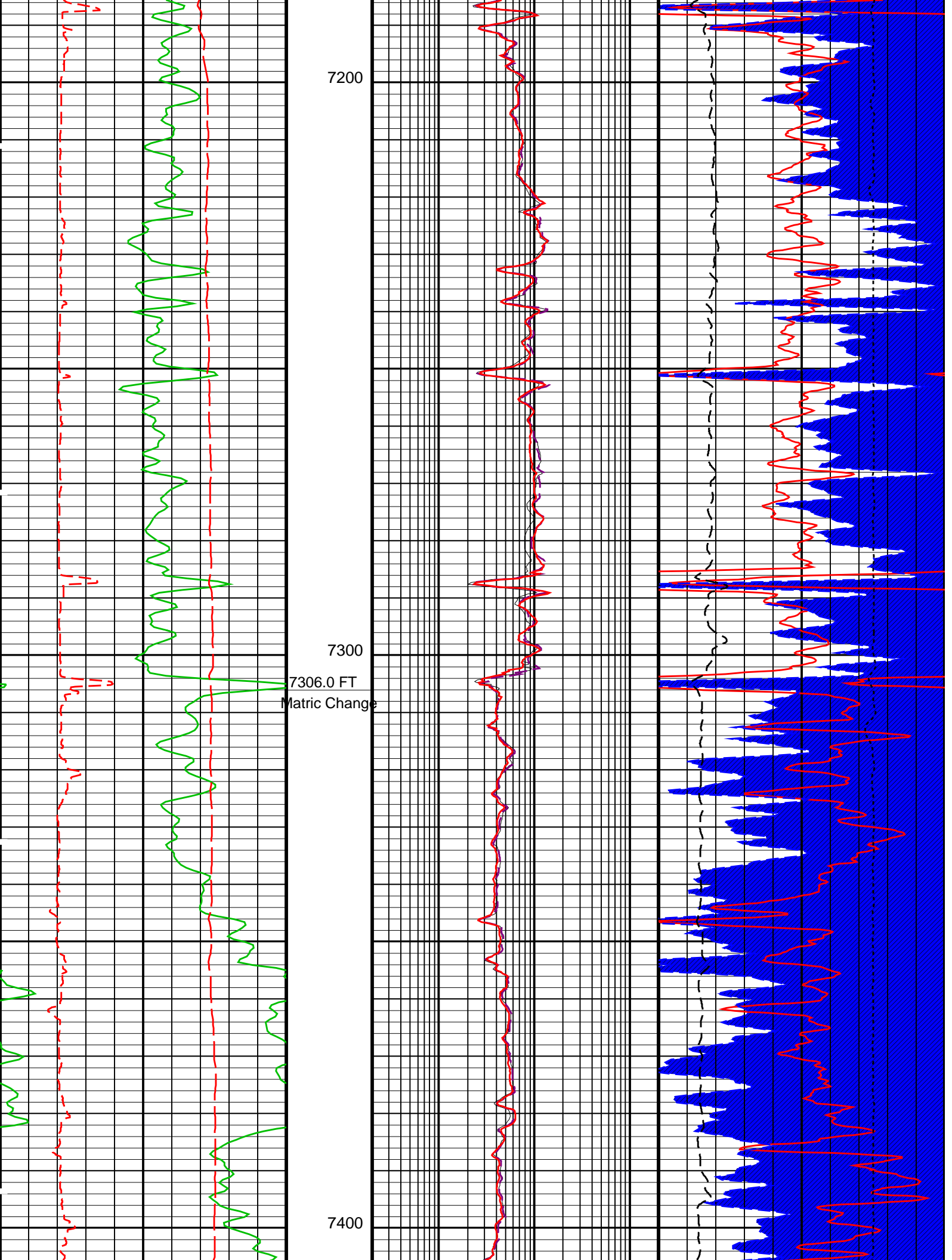


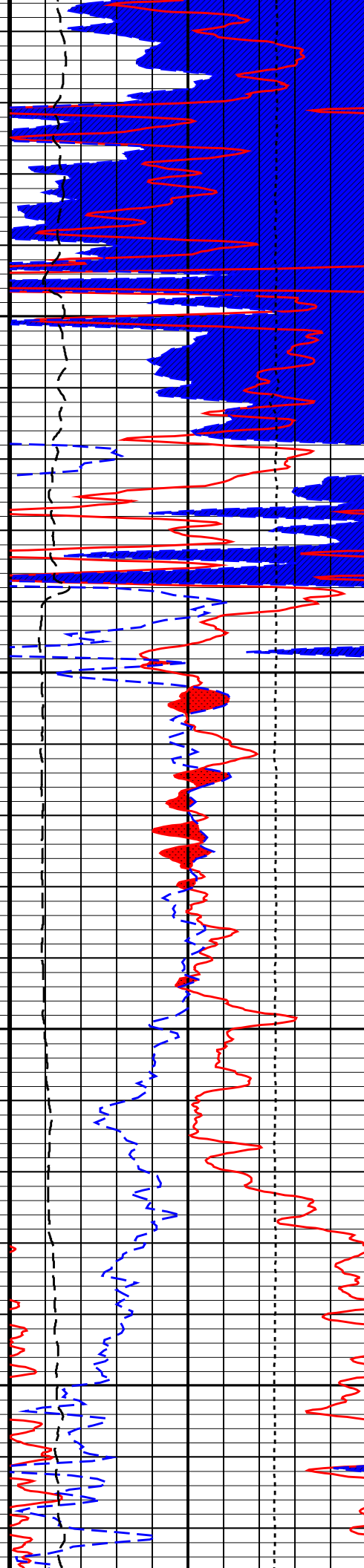
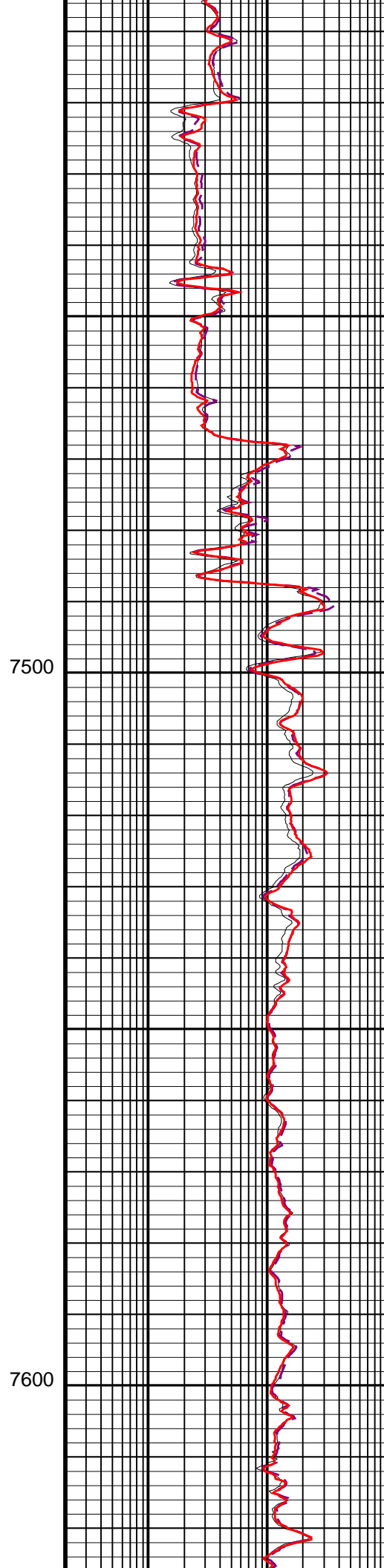
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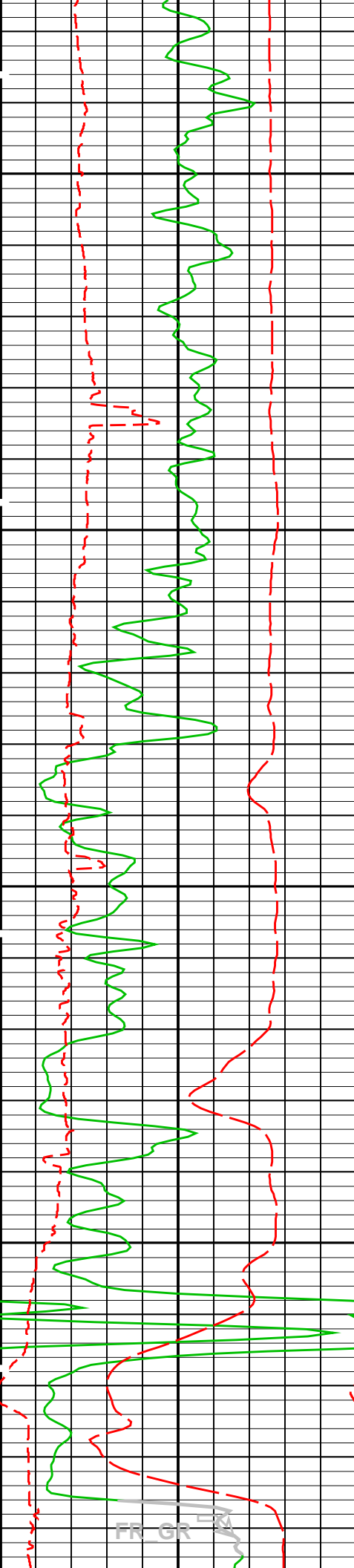
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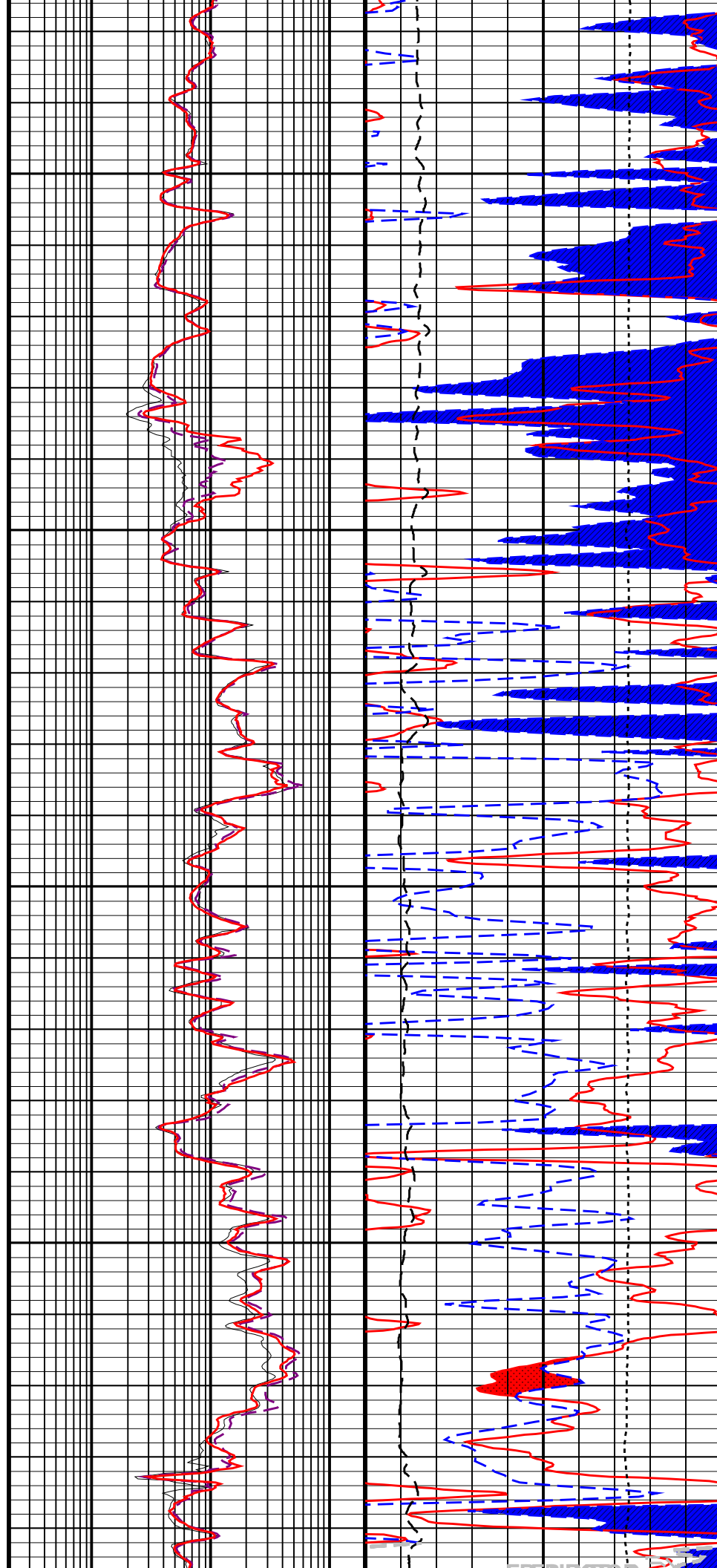


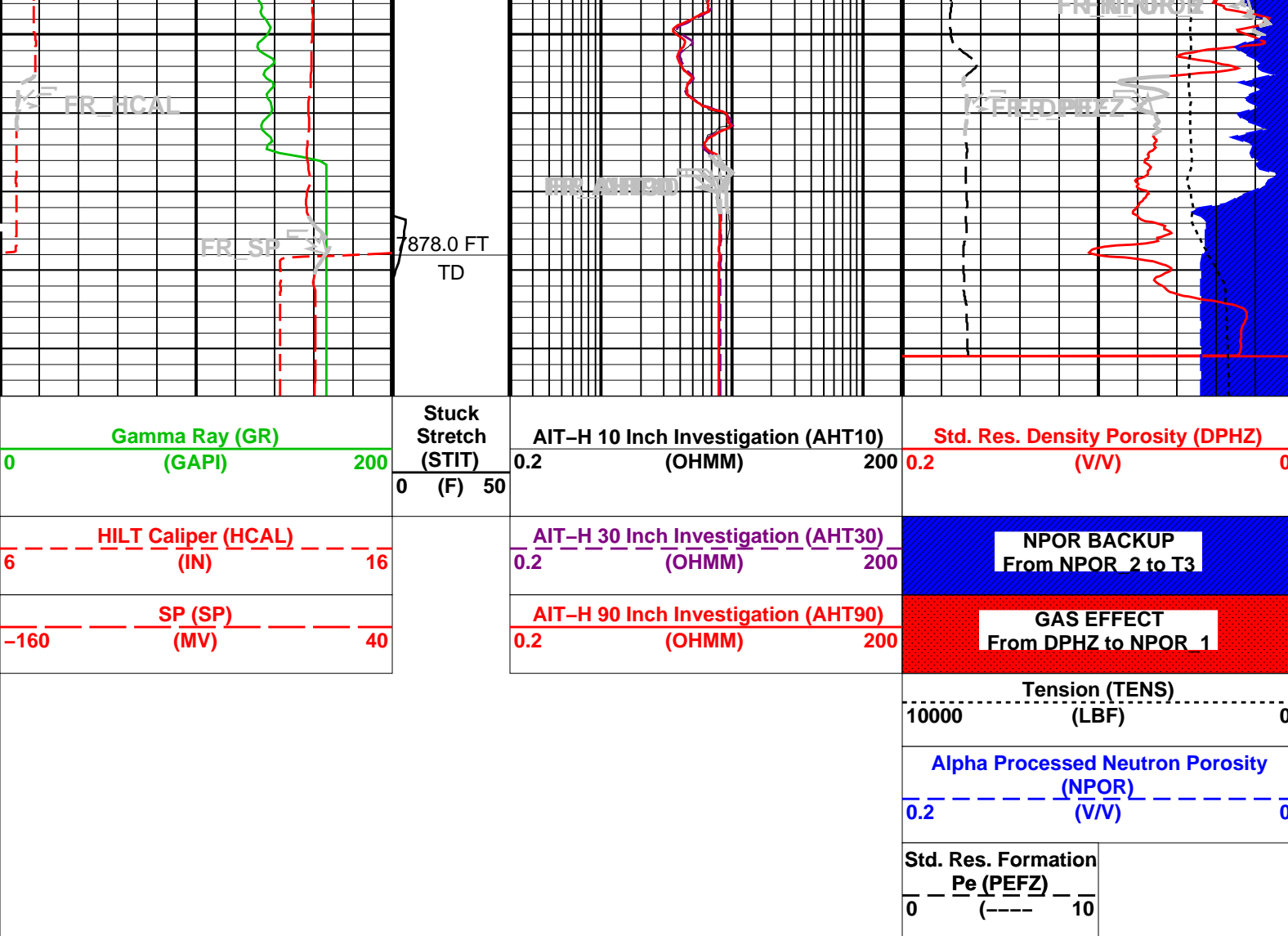




7700

7800





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HILTB-CTS: High resolution Integrated Logging Tool-CTS		
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)	190 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	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	SANDSTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.65	G/C3
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	StdRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	56	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
SPNV	SP Next Value	0	MV
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	190	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	SANDSTONE	
SHT	Surface Hole Temperature	56	DEGF
PERT: Preliminary Evaluation – Real Time			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	190	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	SANDSTONE	
SHT	Surface Hole Temperature	56	DEGF
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth – Driller	7868.00	FT
TDL	Total Depth – Logger	7878.00	FT
System and Miscellaneous			
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	0.00	PPM
CSIZ	Current Casing Size	8.625	IN
CWEI	Casing Weight	24.00	LB/F
DFD	Drilling Fluid Density	9.60	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
MST	Mud Sample Temperature	56.00	DEGF
RMFS	Resistivity of Mud Filtrate Sample	2.3704	OHMM
TD	Total Depth	7878	FT

Format: COMBO Vertical Scale: 5" per 100' Graphics File Created: 16-Feb-2007 10:45

OP System Version: 14C0-302

MCM

HILTB-CTS SRPC-3193-Q3_2006

Output DLIS Files

DEFAULT AIT_TLD_MCFL_CNL_011LUP FN:10 PRODUCER 16-Feb-2007 10:45

Company: **Orr Energy, LLC**

Schlumberger

Well: **Lowe 31-14**
Field: **La Poudre South**
County: **Weld**
State: **Colorado**

Platform Express
Triple Combo

