

**Schlumberger**

Company: **Vecta Oil & Gas LTD**

Well: **Torreys 44-33**

Field: **Wildcat**

County: **Cheyenne**

State: **Colorado**

Well: **Torrey's 44-33**  
Field: **Wildcat**  
County: **Cheyenne**  
State: **Colorado**

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County: **Cheyenne** State: **Colorado**

[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: FMI-Sonic Scanner	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
This is the first run in hole.	
Tool run as per tool sketch.	
Repeat Matrix: Sandstone 2.65	
Main Matrix: Limestone 2.71	

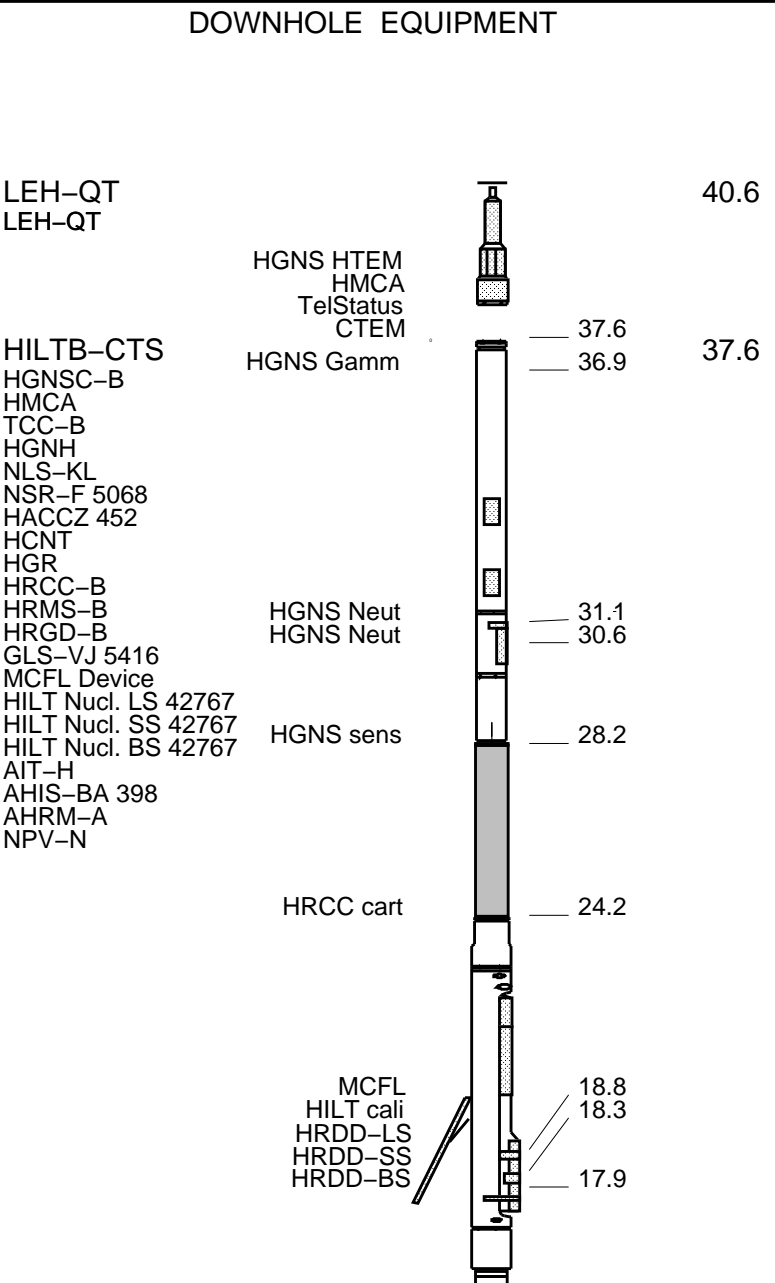
Data may be affected by hole rugosity.	
Crew: Jay Musgrave, Mark Hoffman	
Rig: Black Gold 69	

RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1			RUN 2		
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SURFACE EQUIPMENT	
WITM (CTS)-A	NCS-VB
GSR-U/Y	
NCT-B	
CNB-AB	



Induction  
Temperatu  
Power Sup

7.9

SP SENSOR  
HTEN HMAS  
Accelerom HV  
Mud Resis  
Tension

0.1

0.0

TOOL ZERO

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

Production String

(in)

(ft)

OD

ID

MD

Well Schematic

(ft)

(in)

MD

OD

ID

Casing String

Casing String

Casing Shoe  
Borehole Segment

0.0

8.625

8.097

418.0

8.625

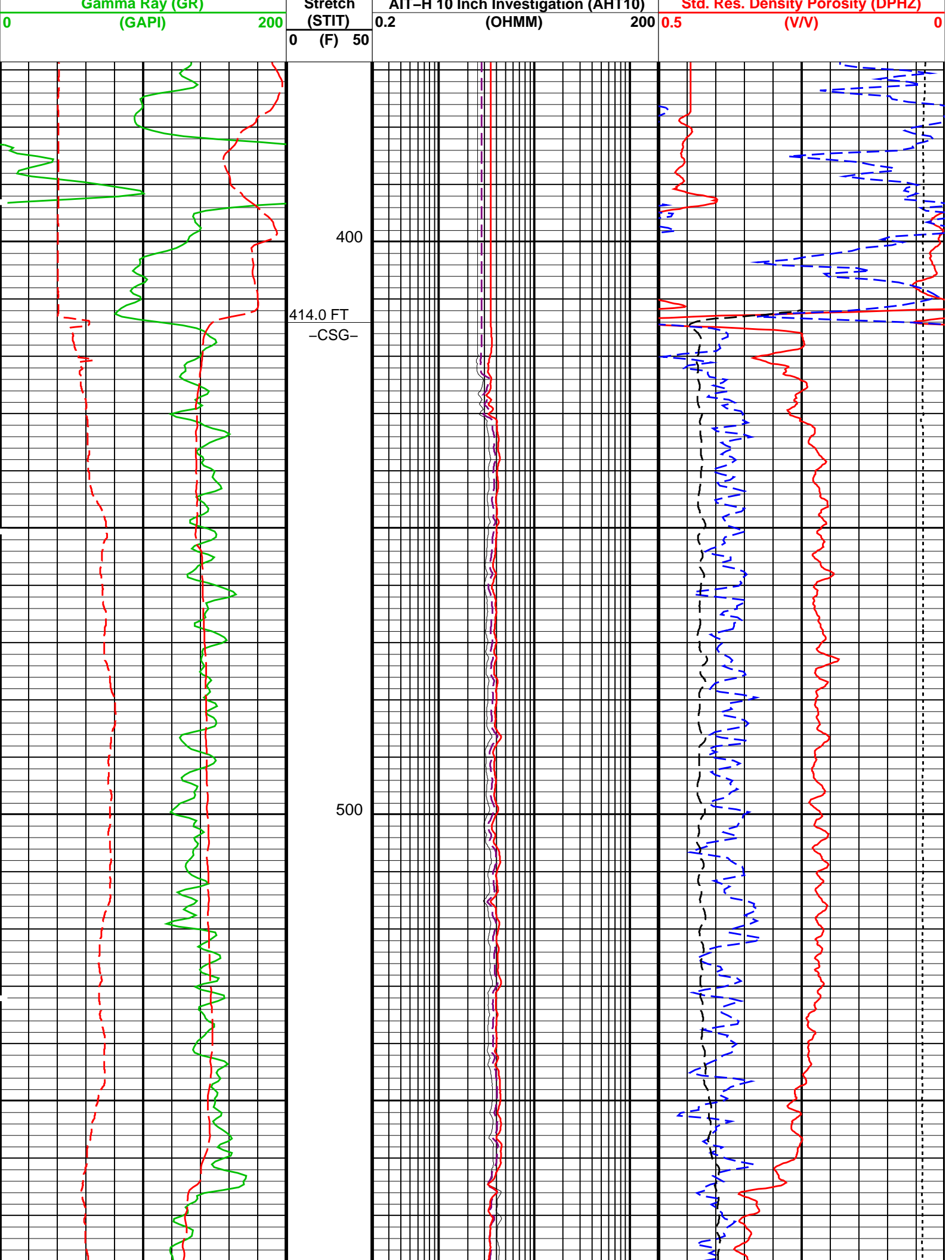
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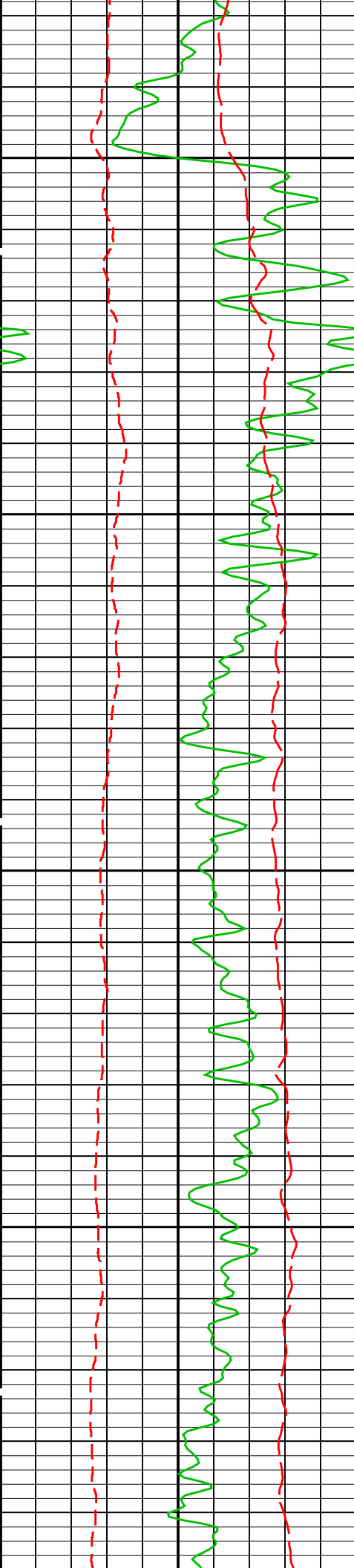
418.0

7.875

## All Depths are Drillers

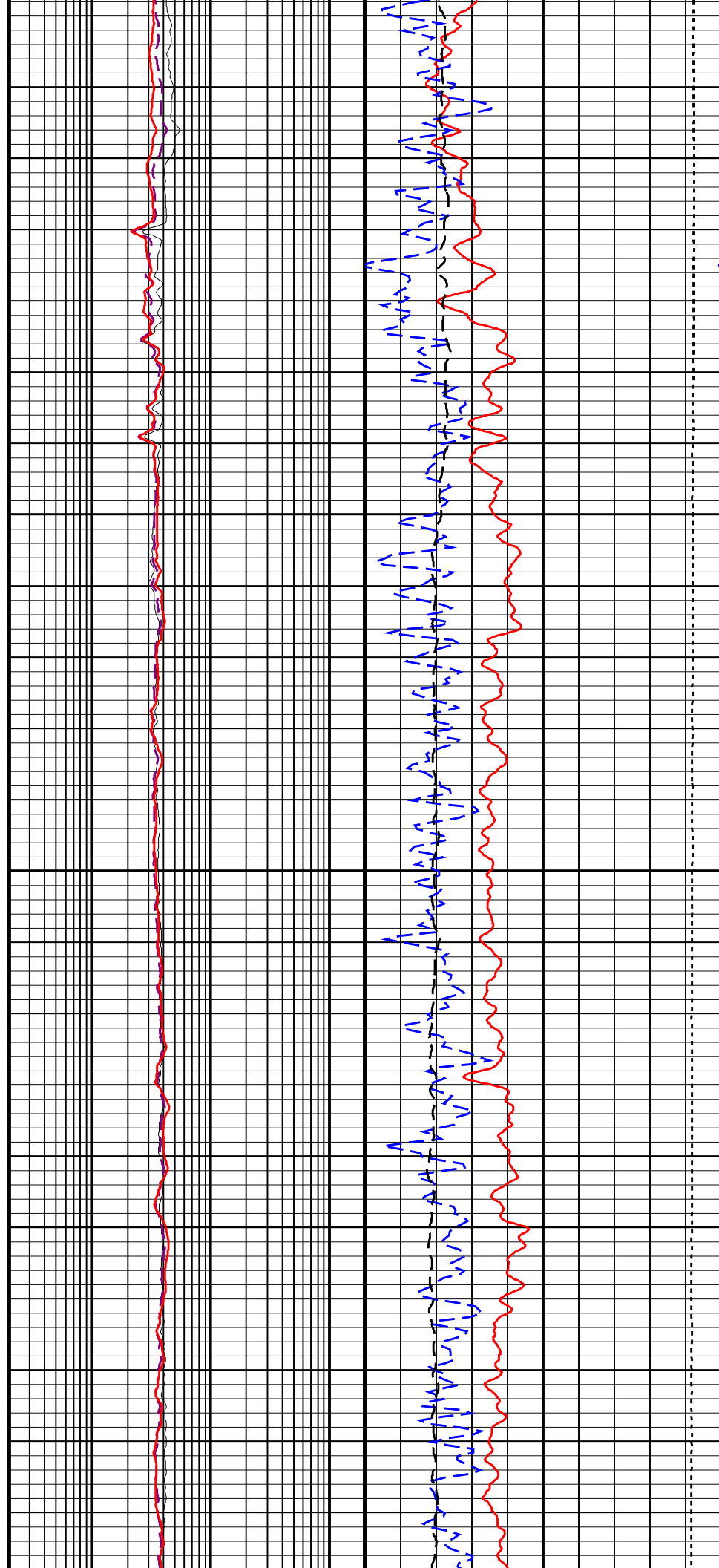
	Stuck Control	NT-1491 (1491) (NT149)	SALE, P, D, % P, % (DBUT)
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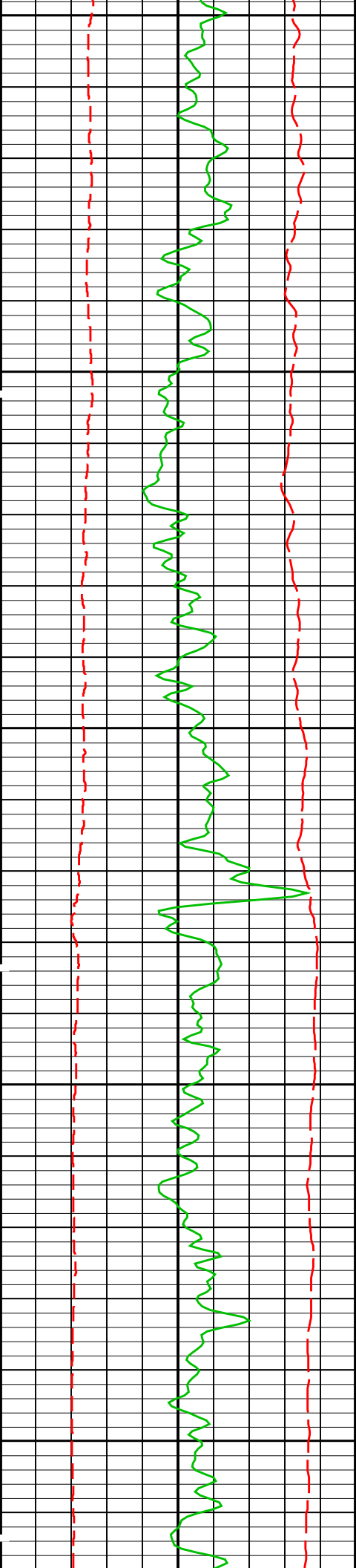




600

700

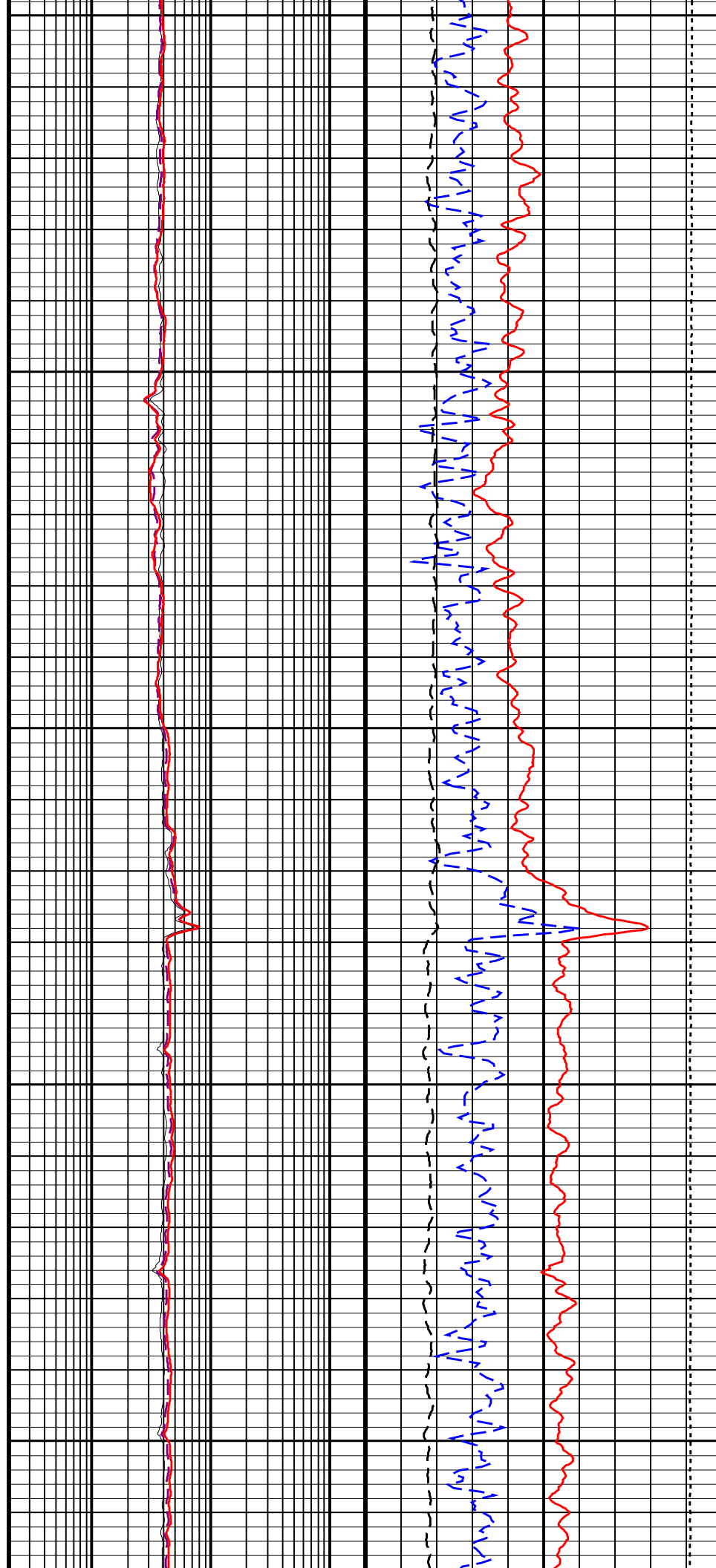




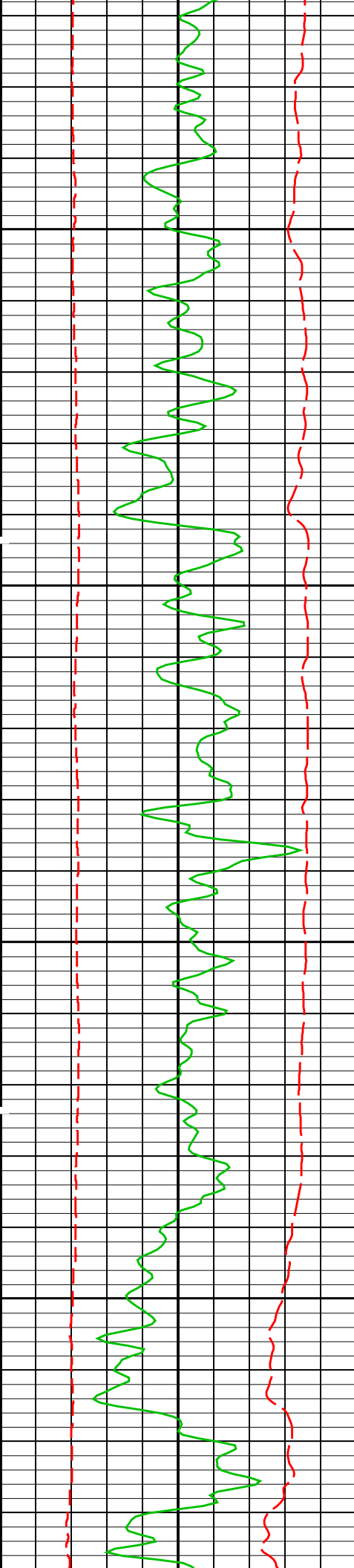
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900

1000

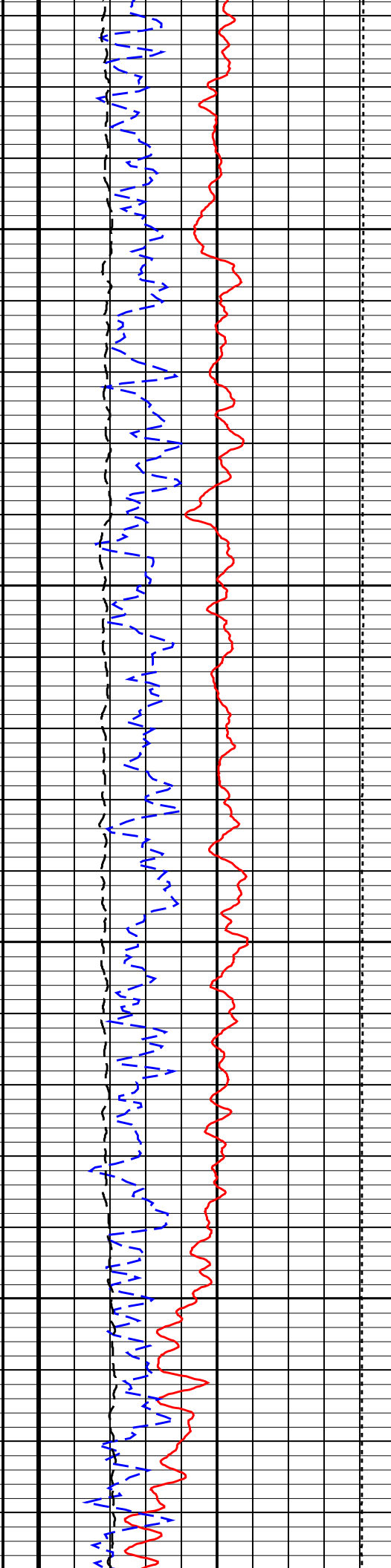
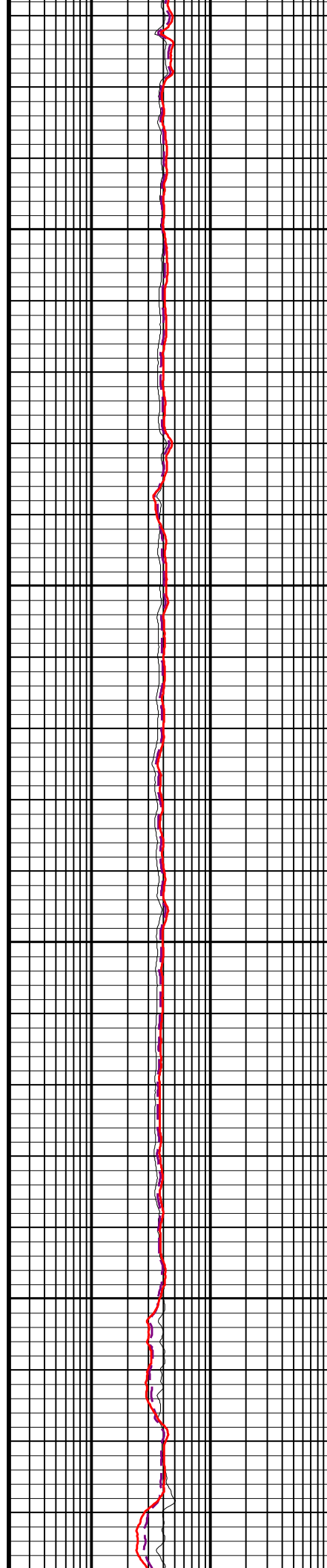


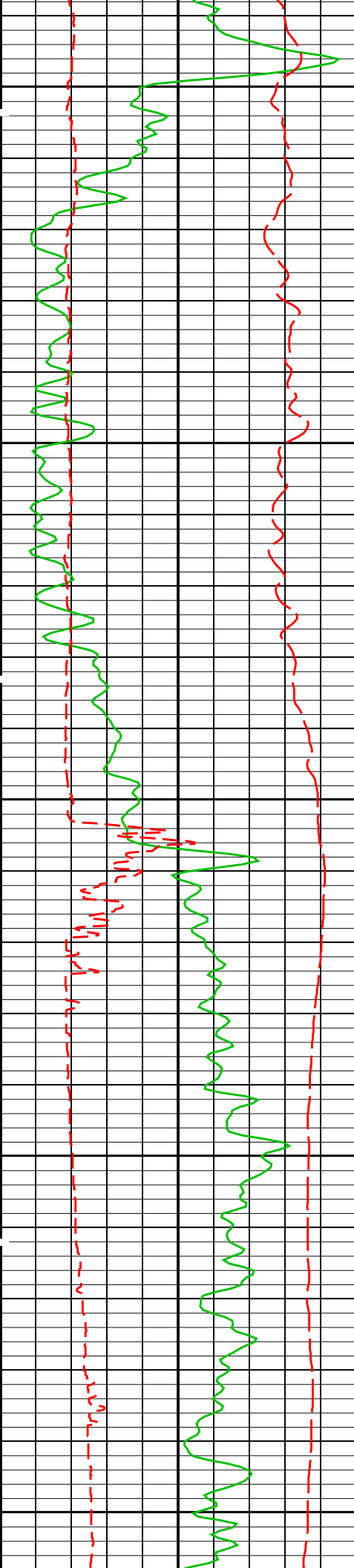




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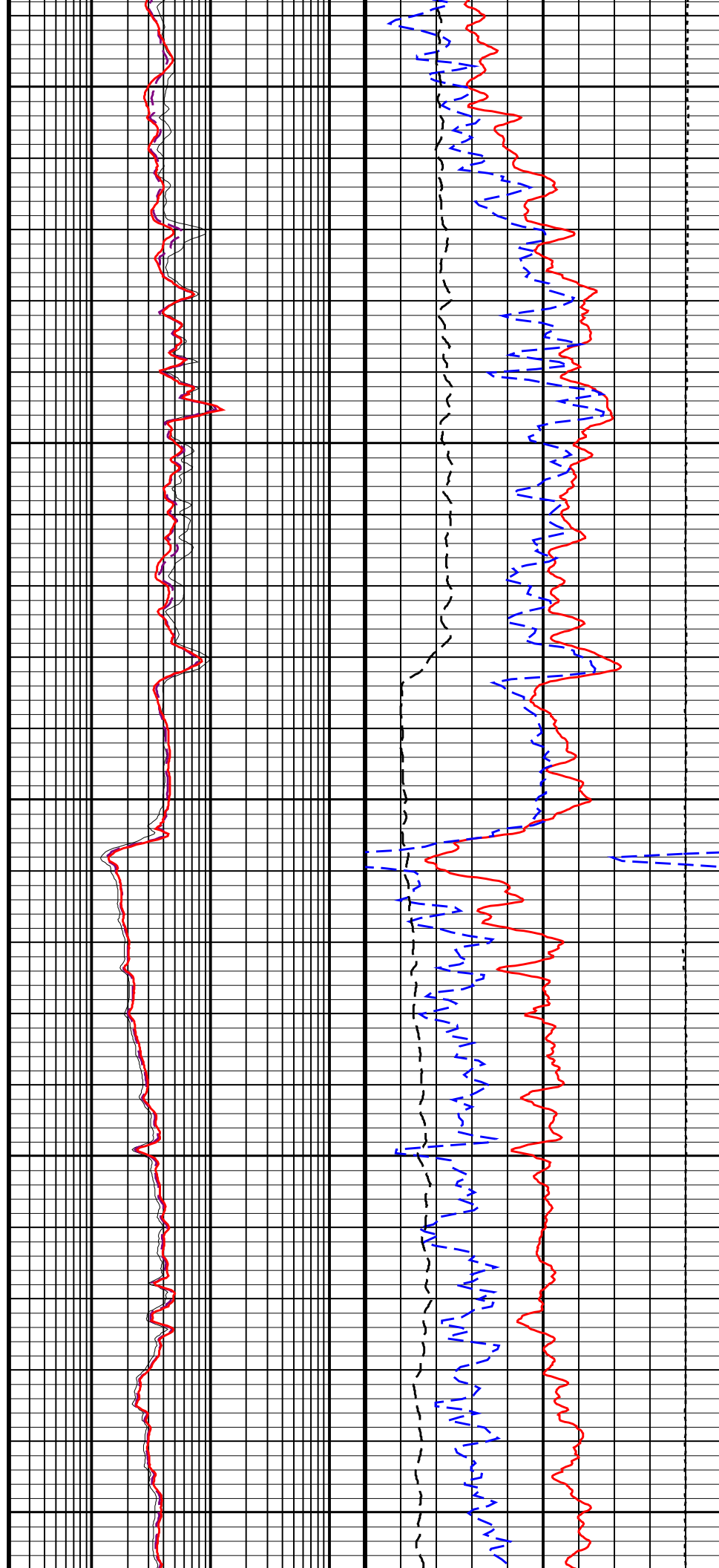
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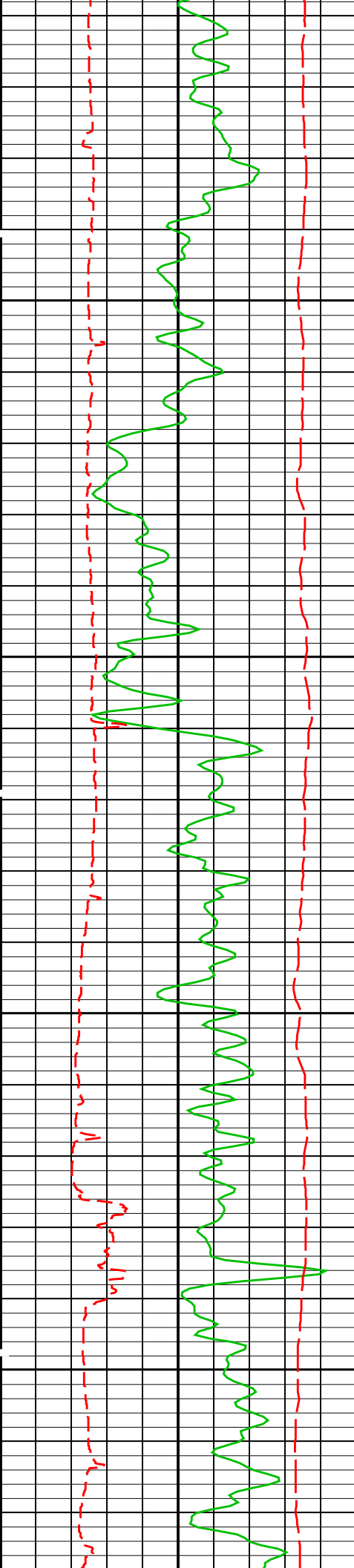




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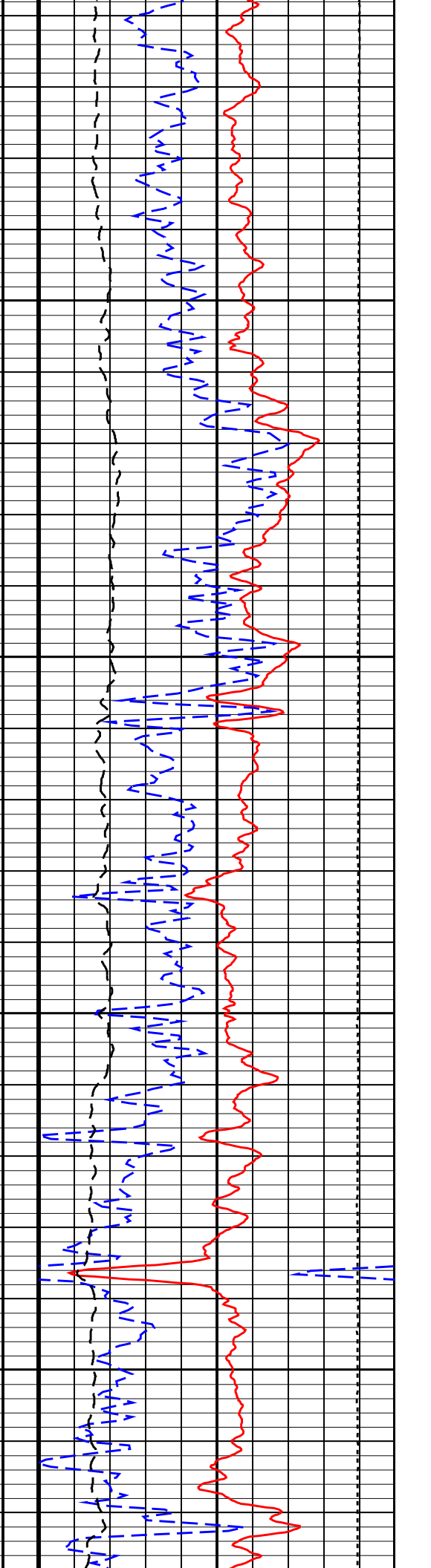
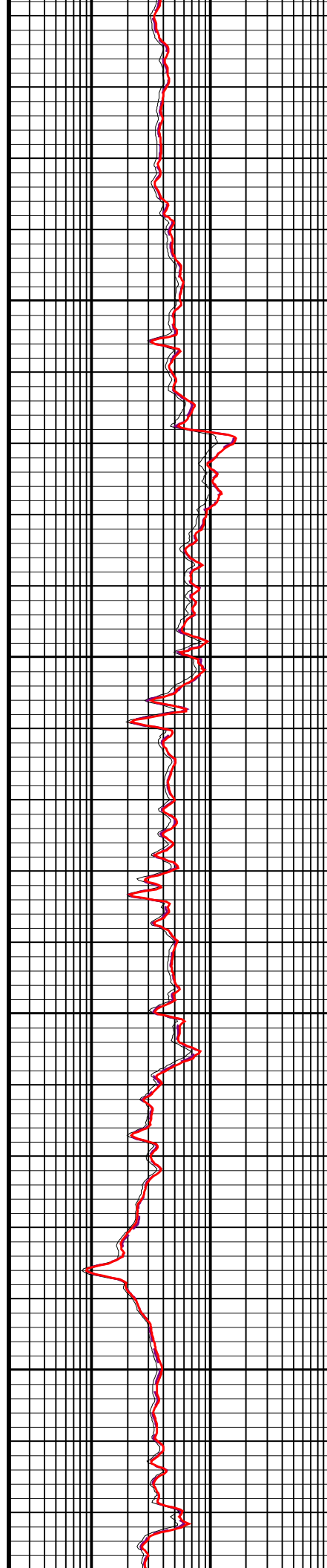
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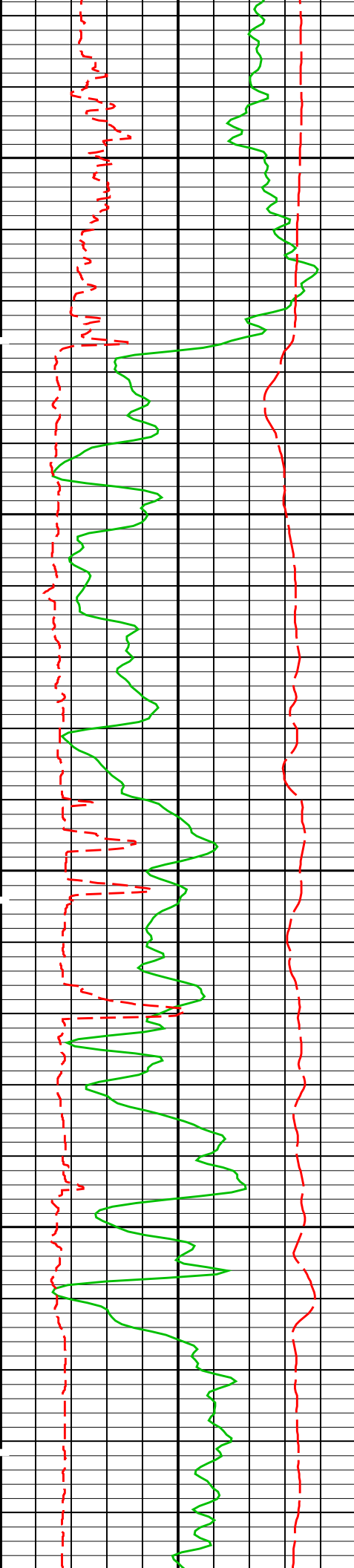




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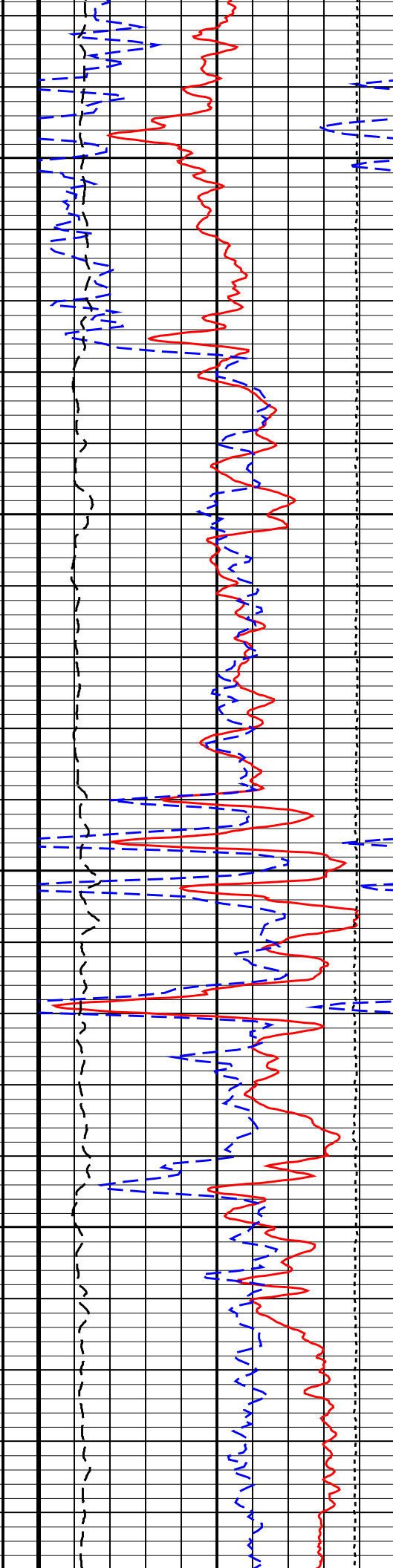
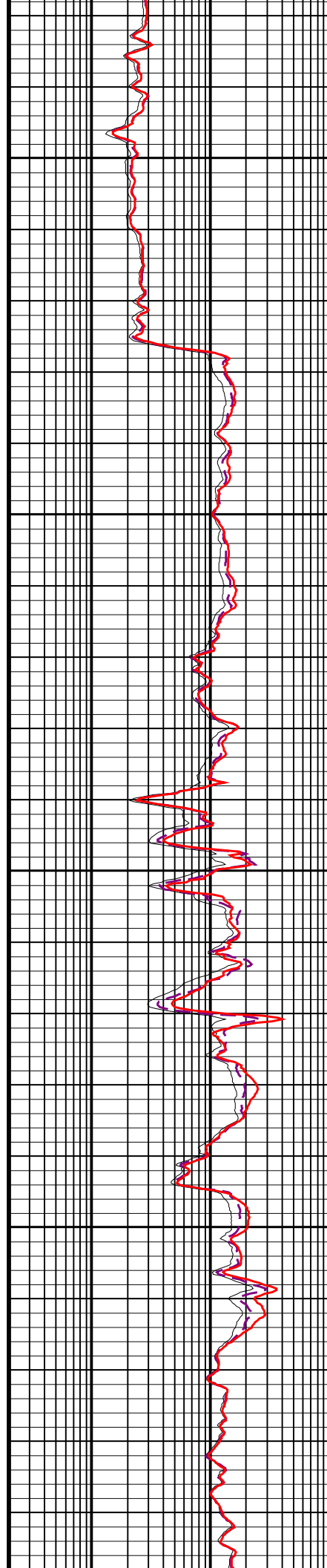
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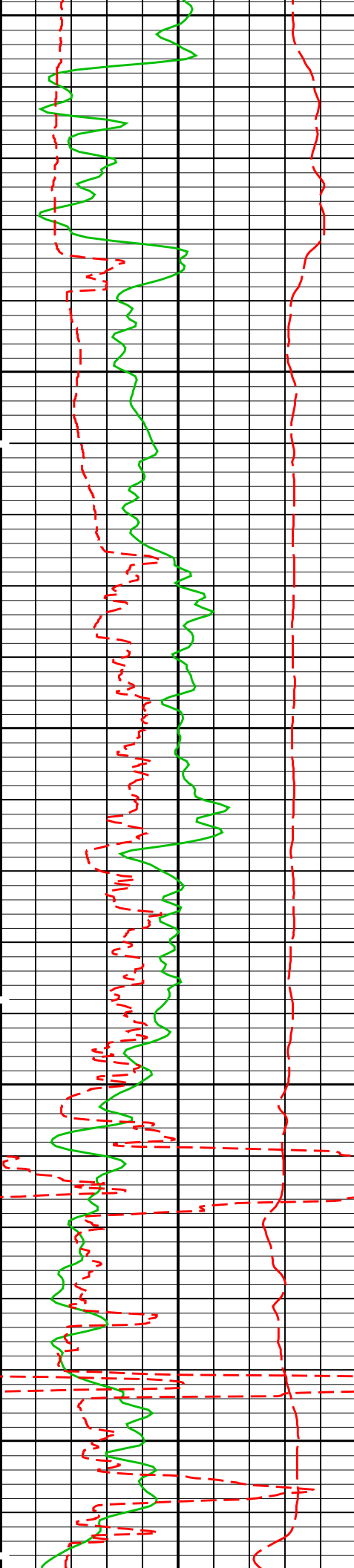




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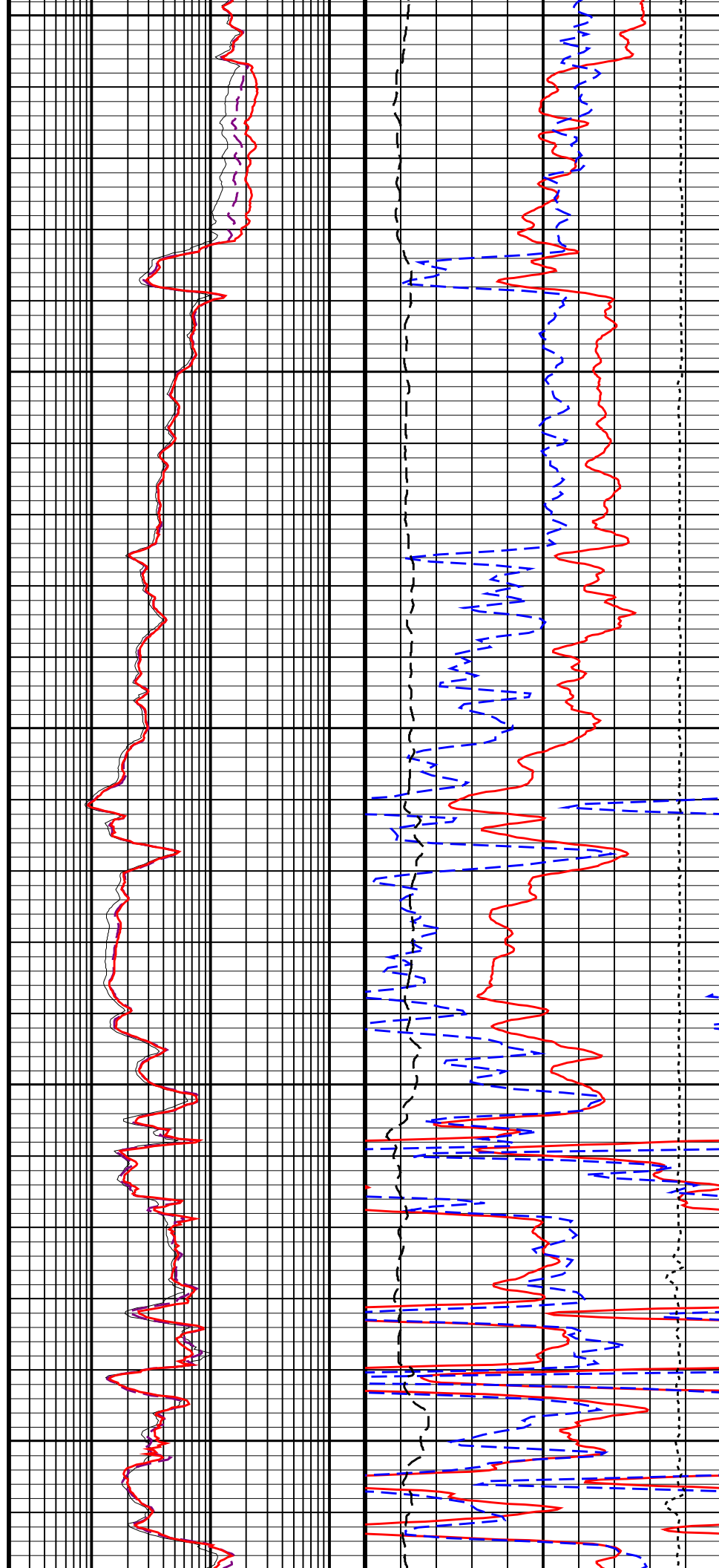




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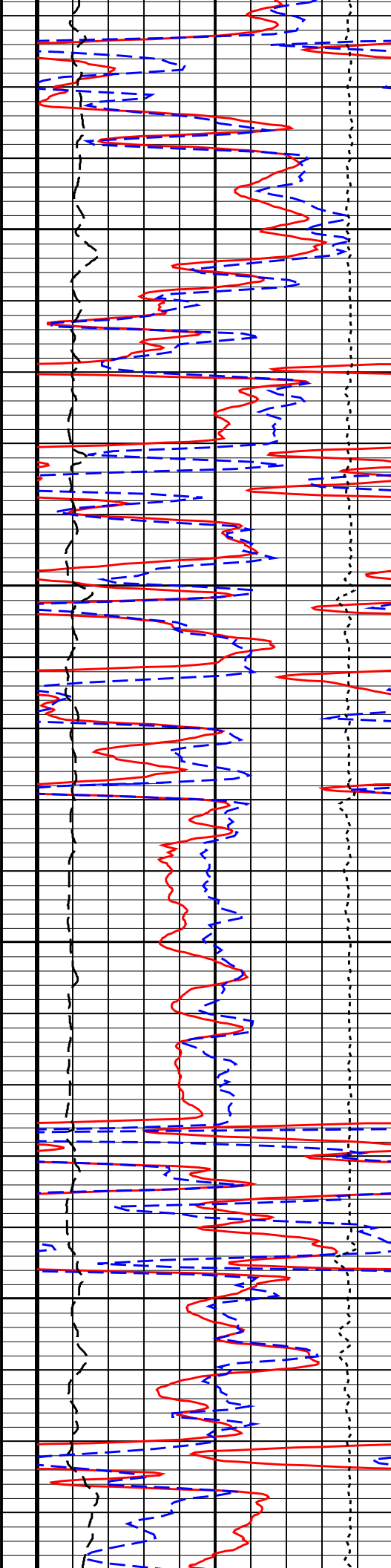
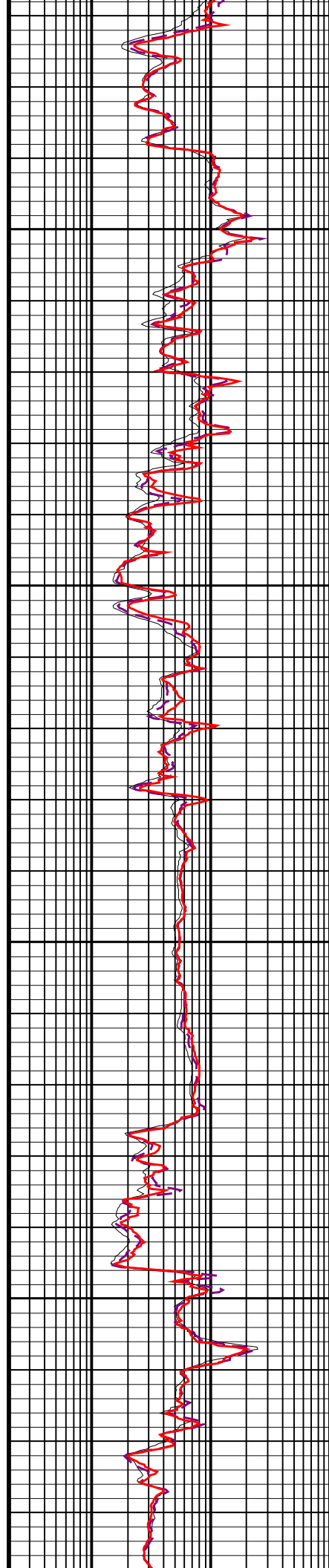
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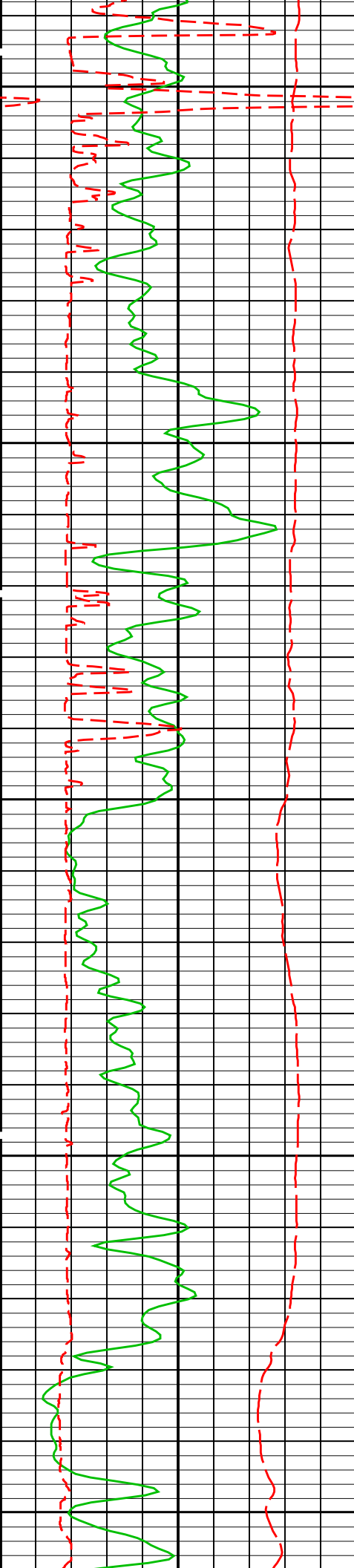




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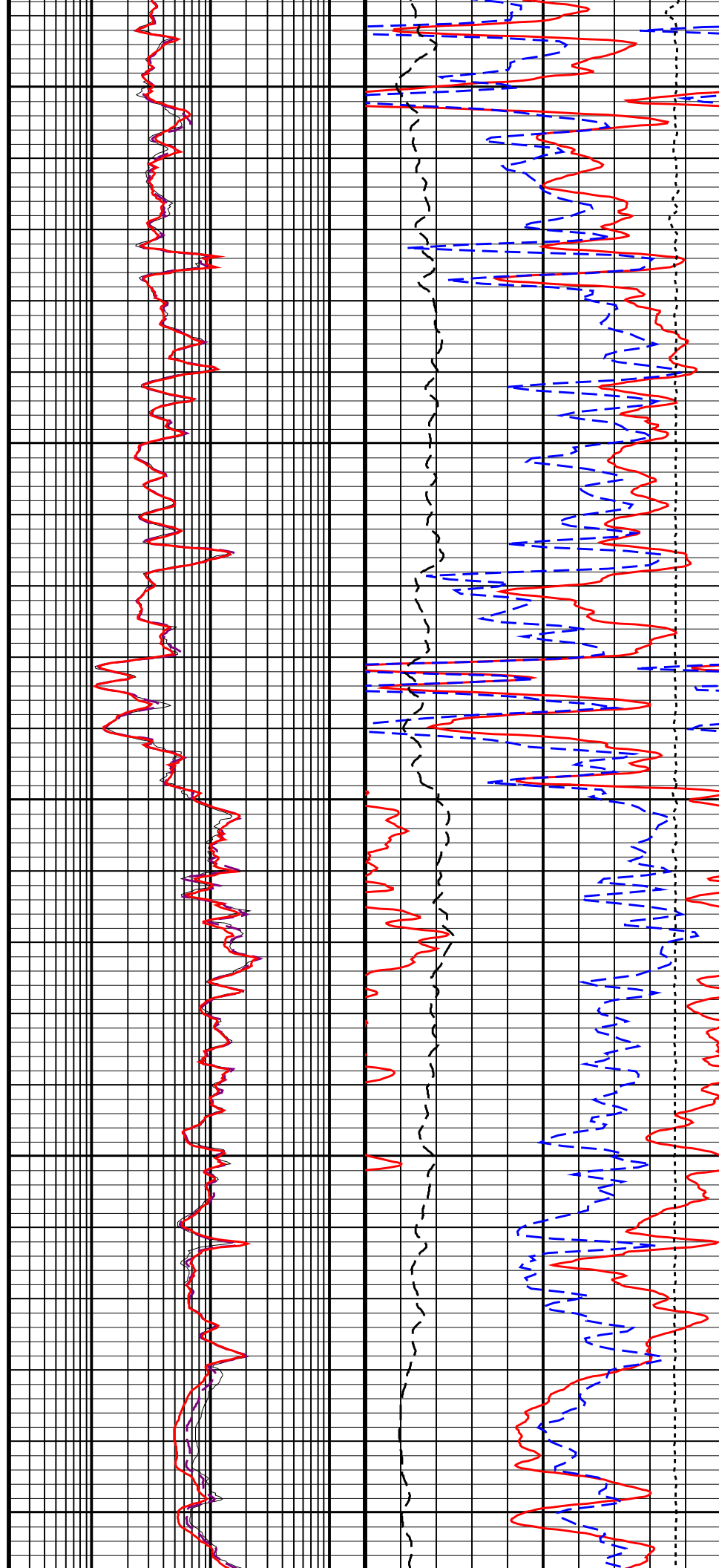
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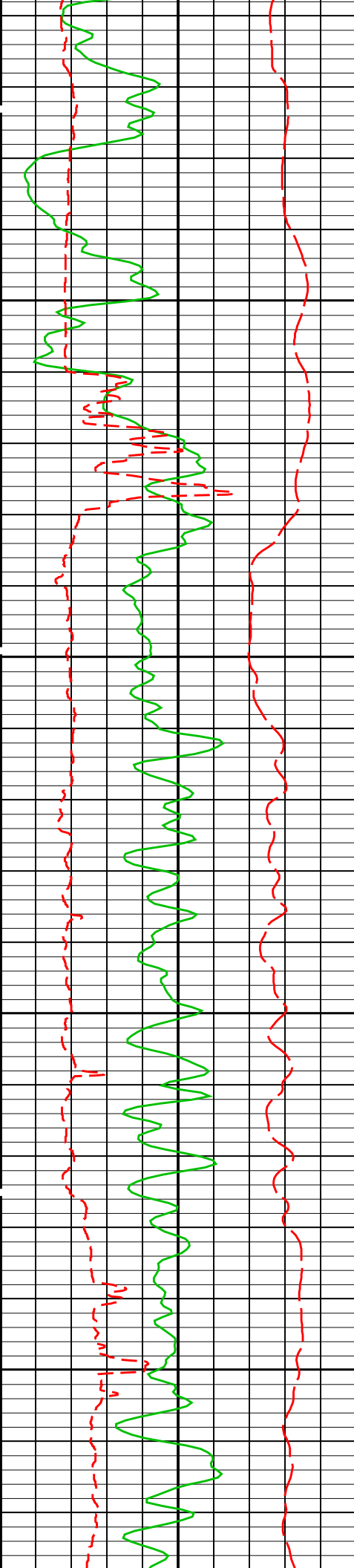




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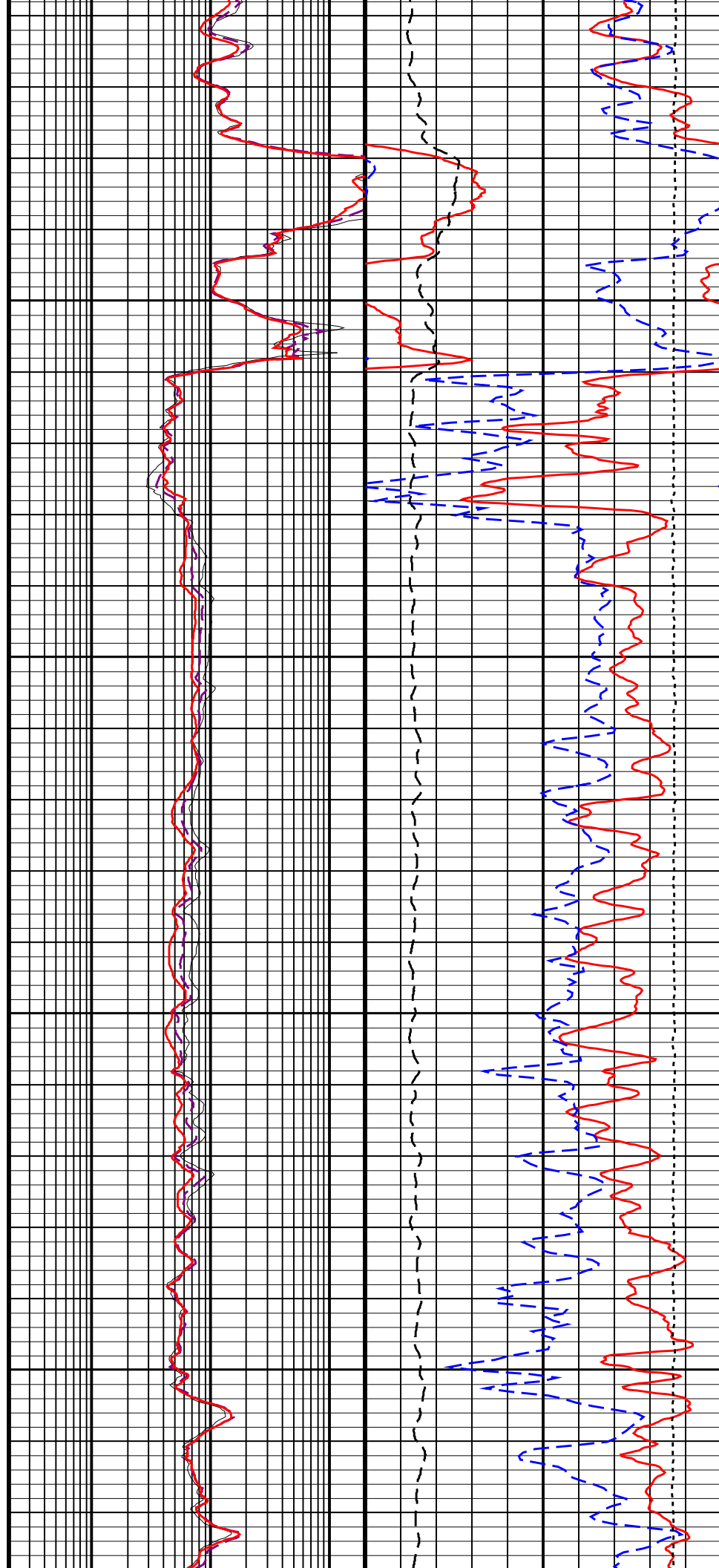
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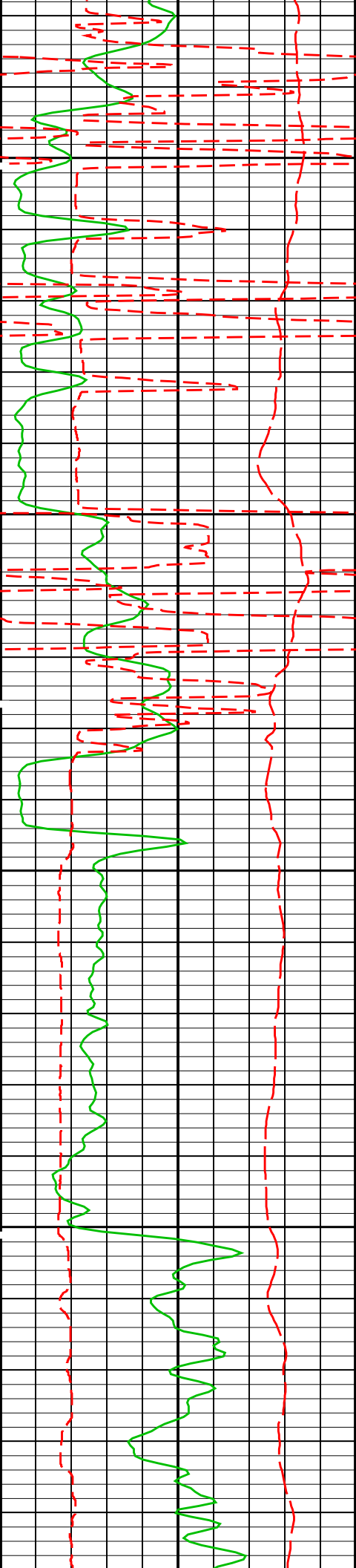


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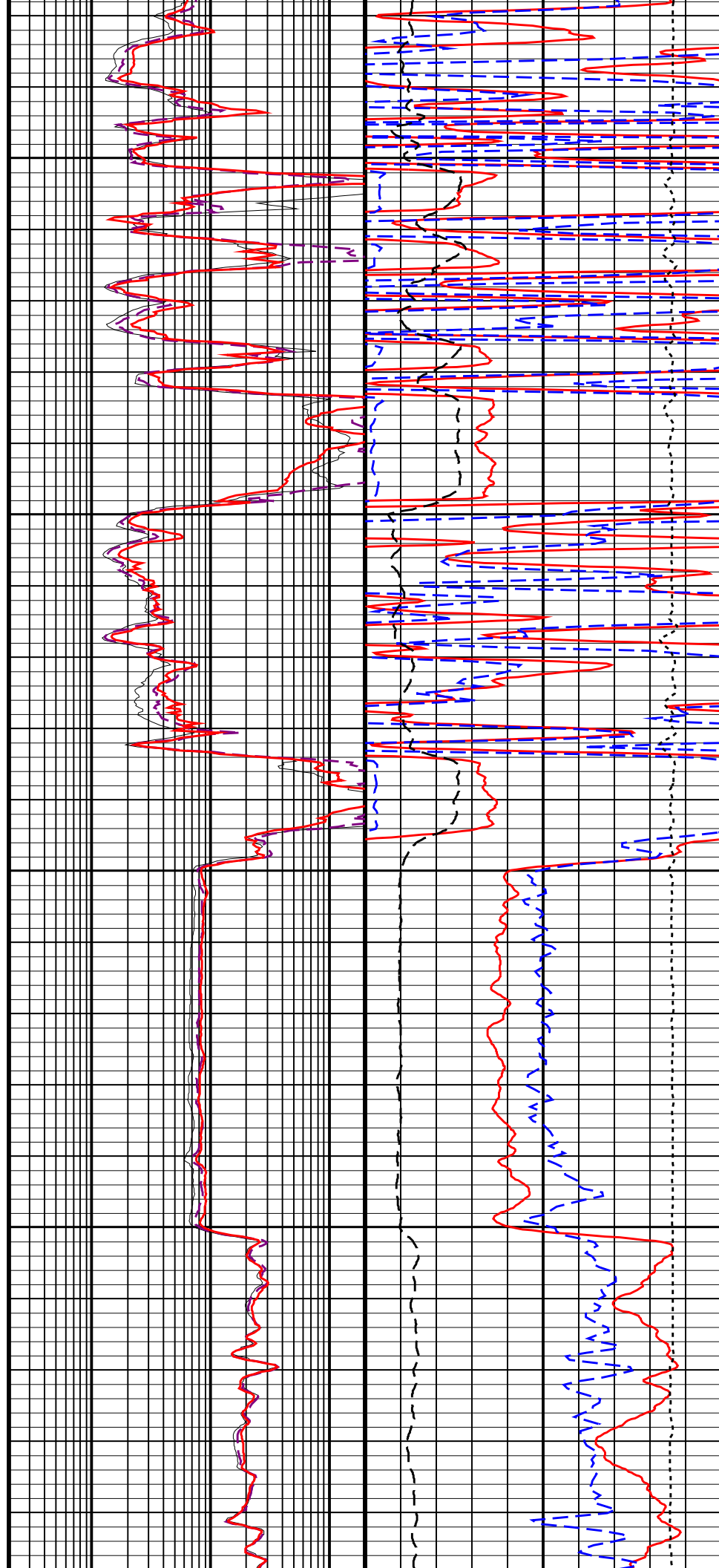


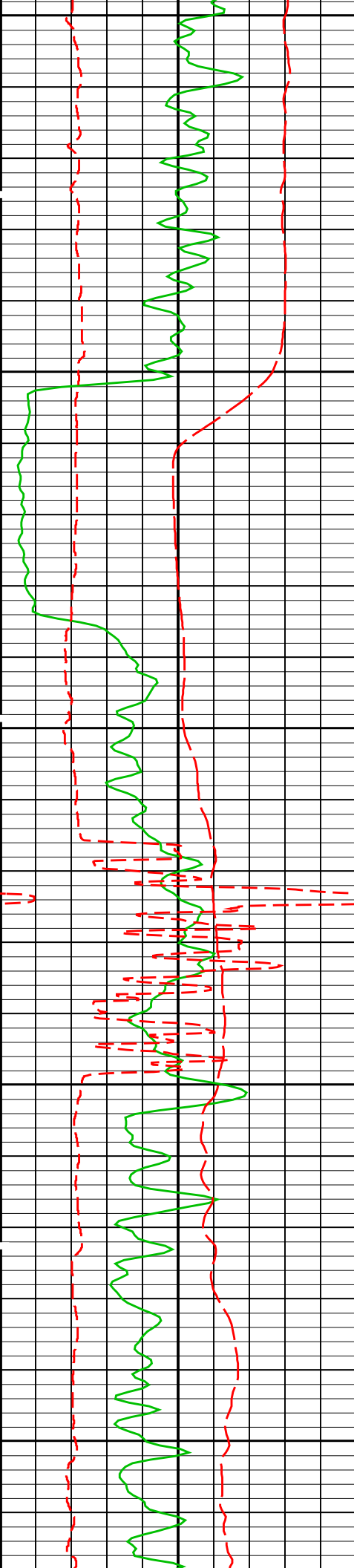




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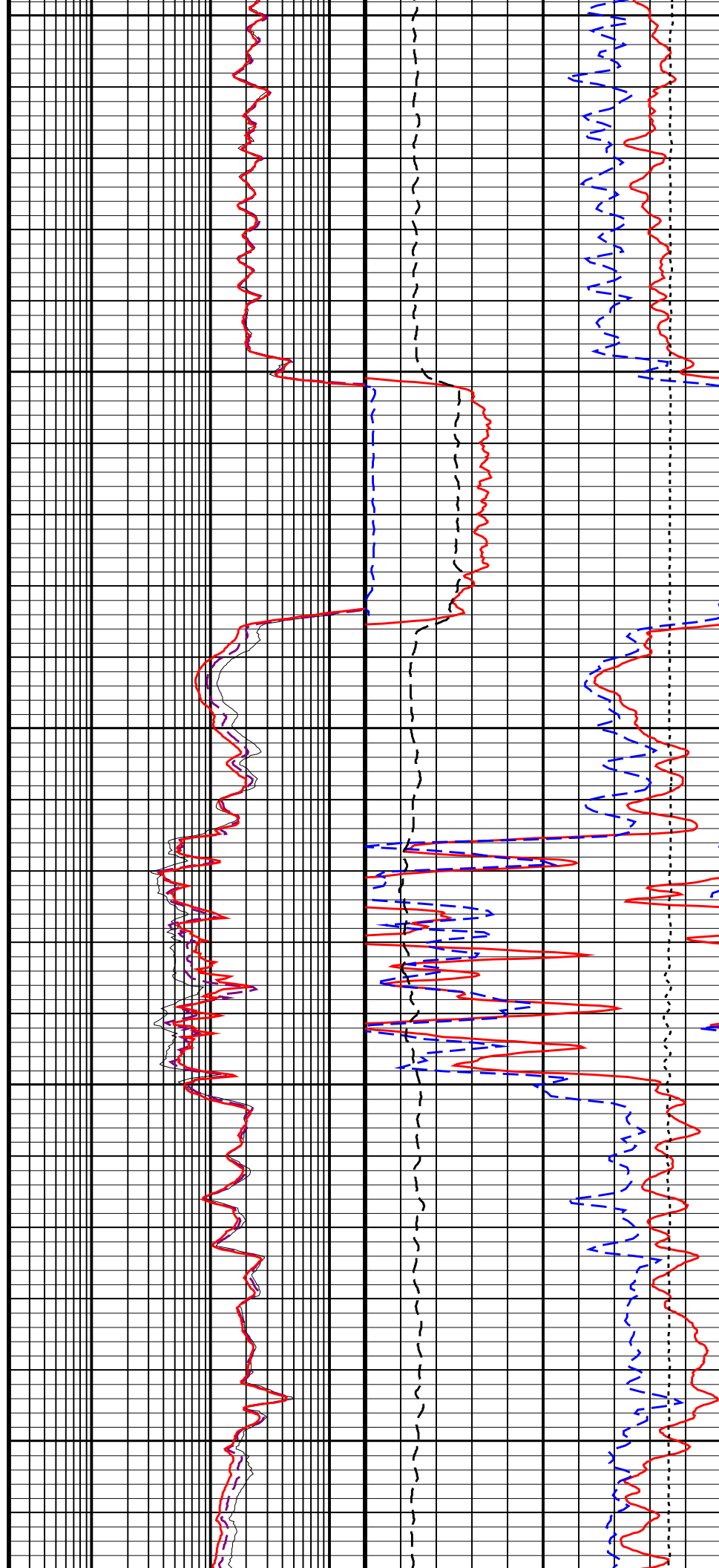


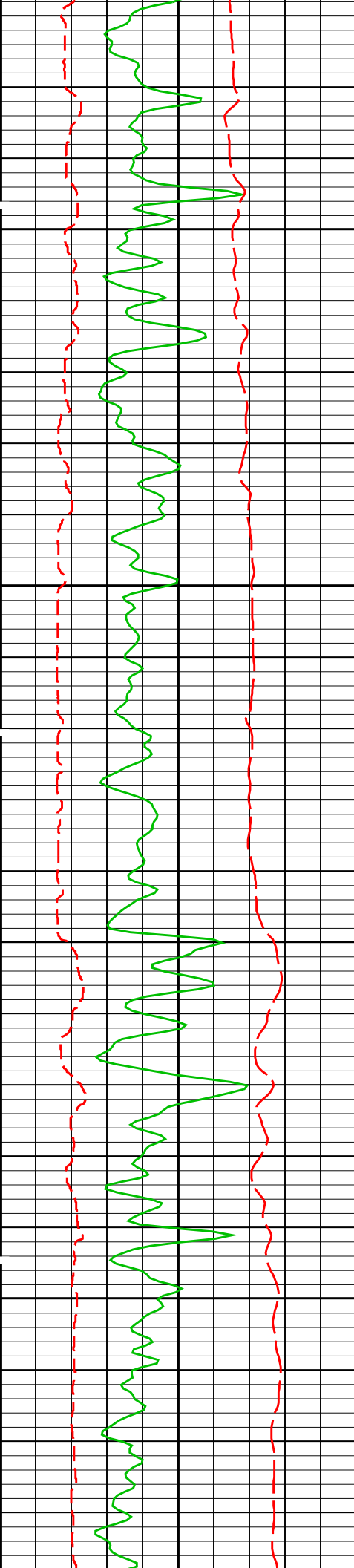


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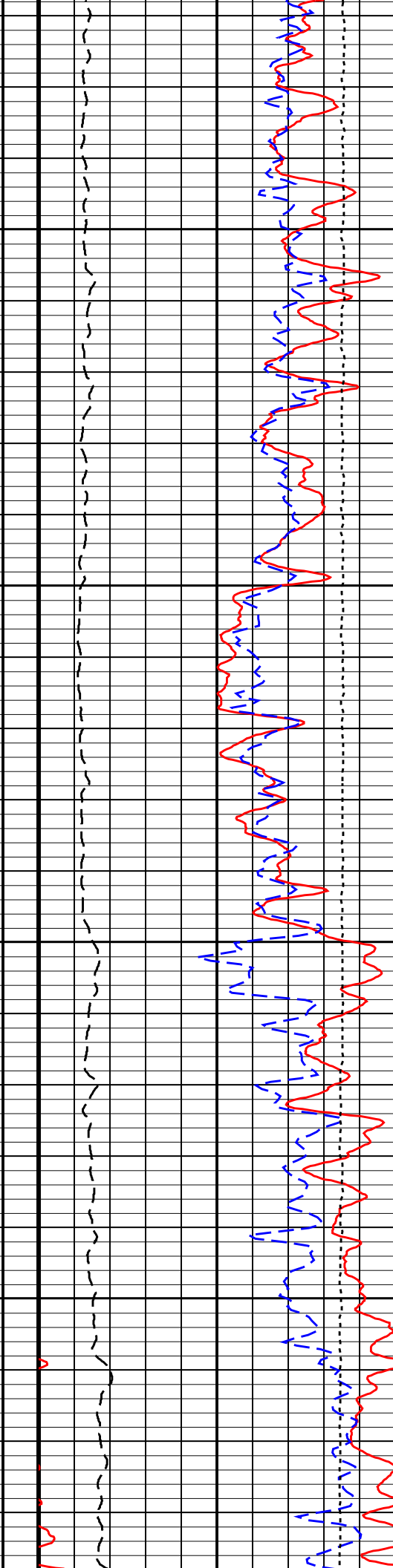
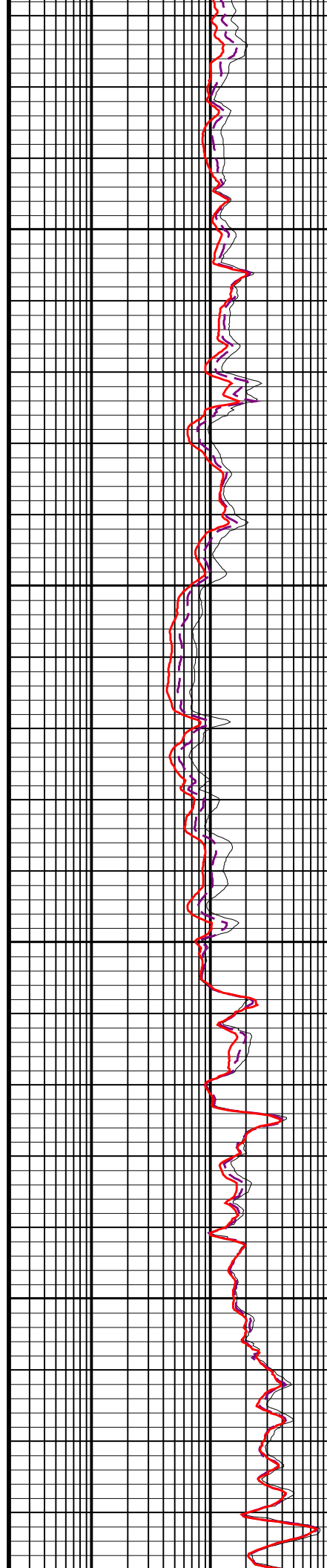
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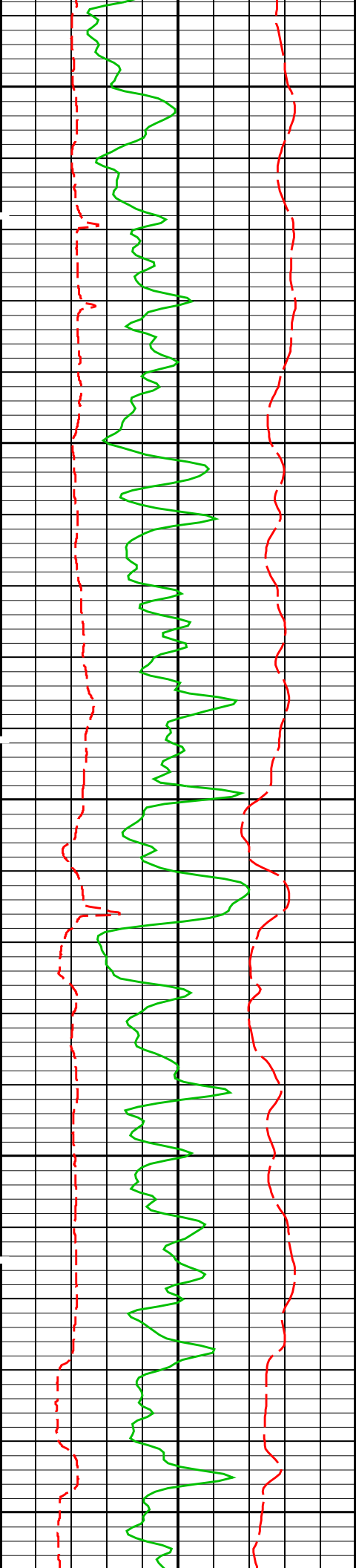




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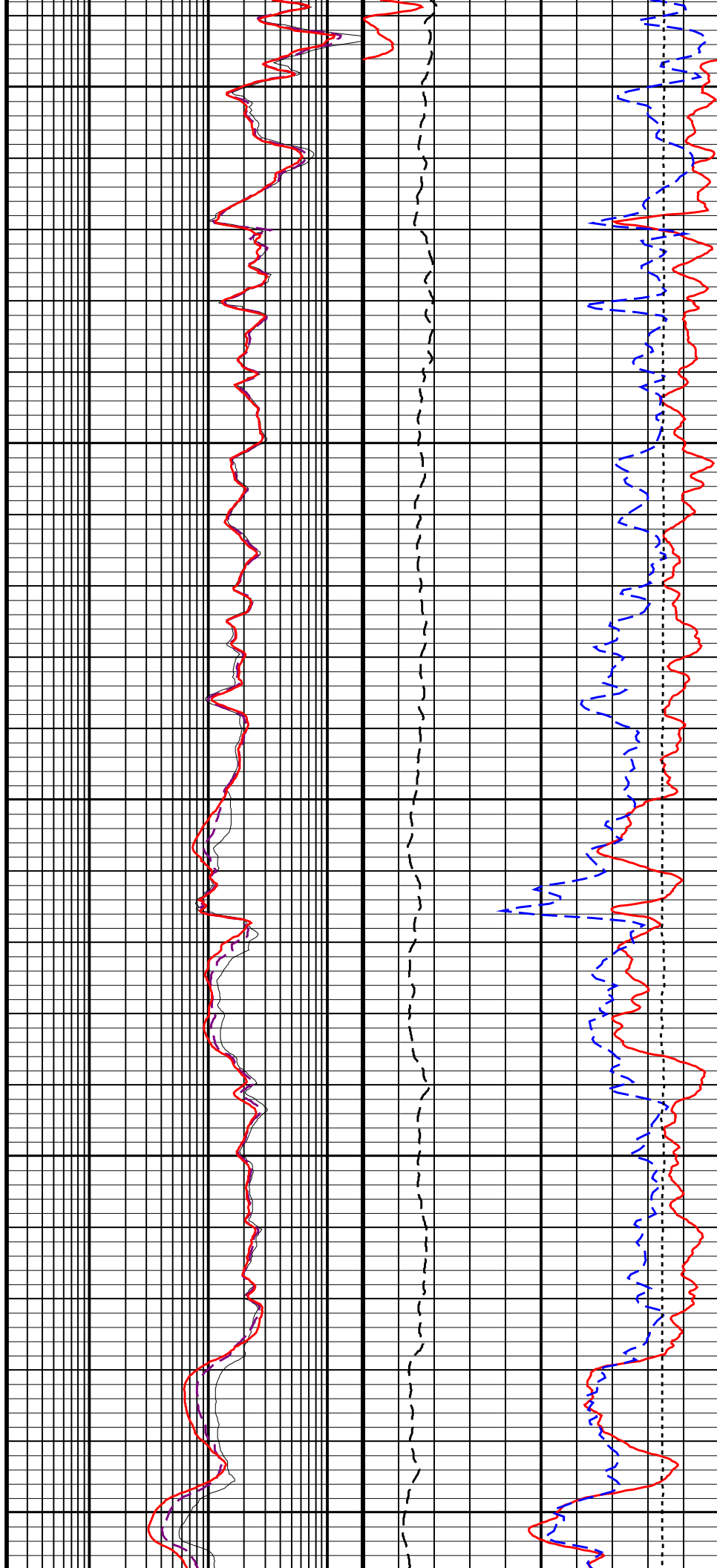
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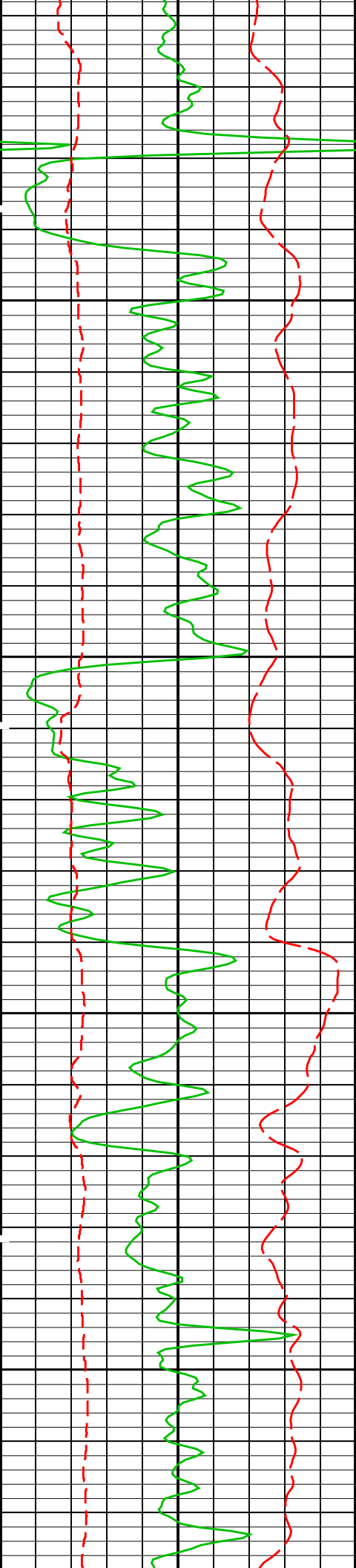




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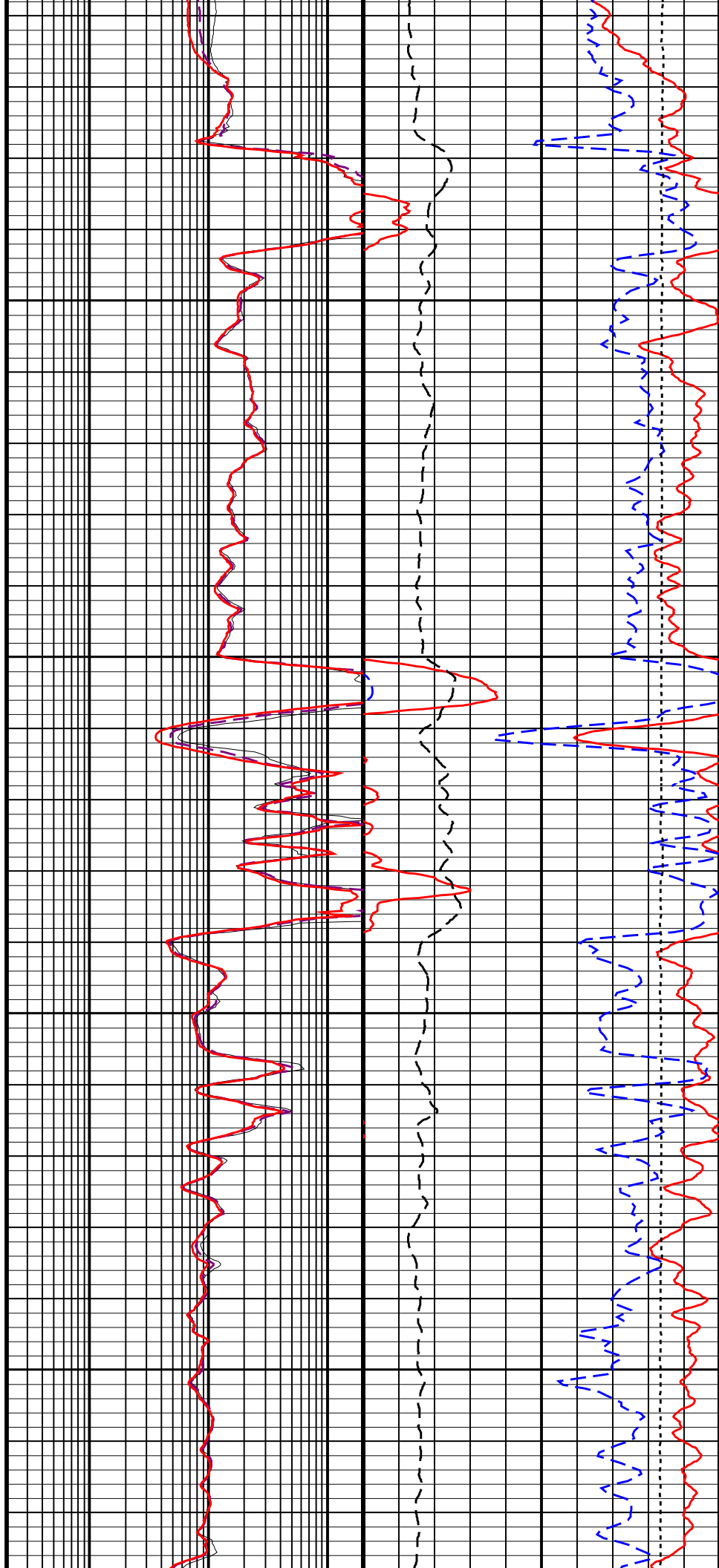
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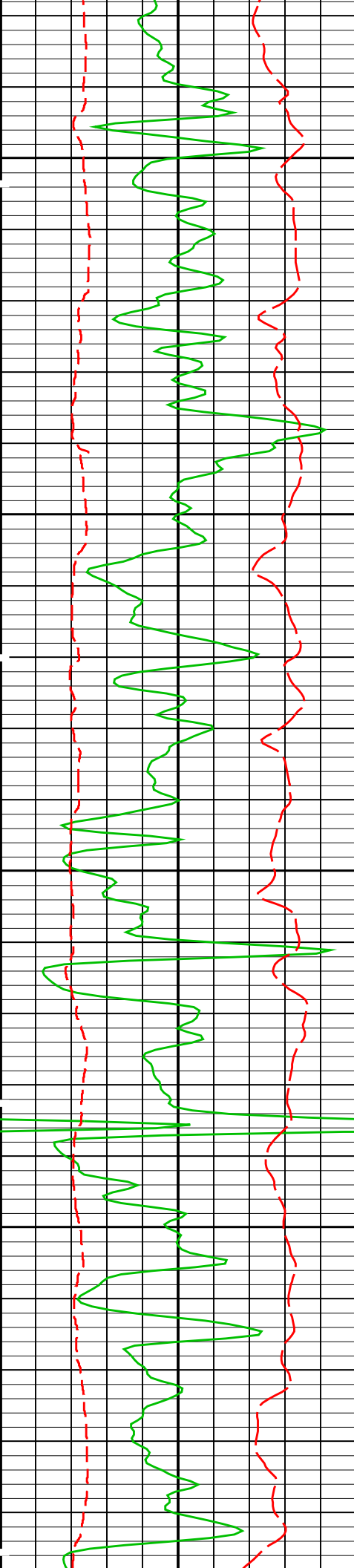




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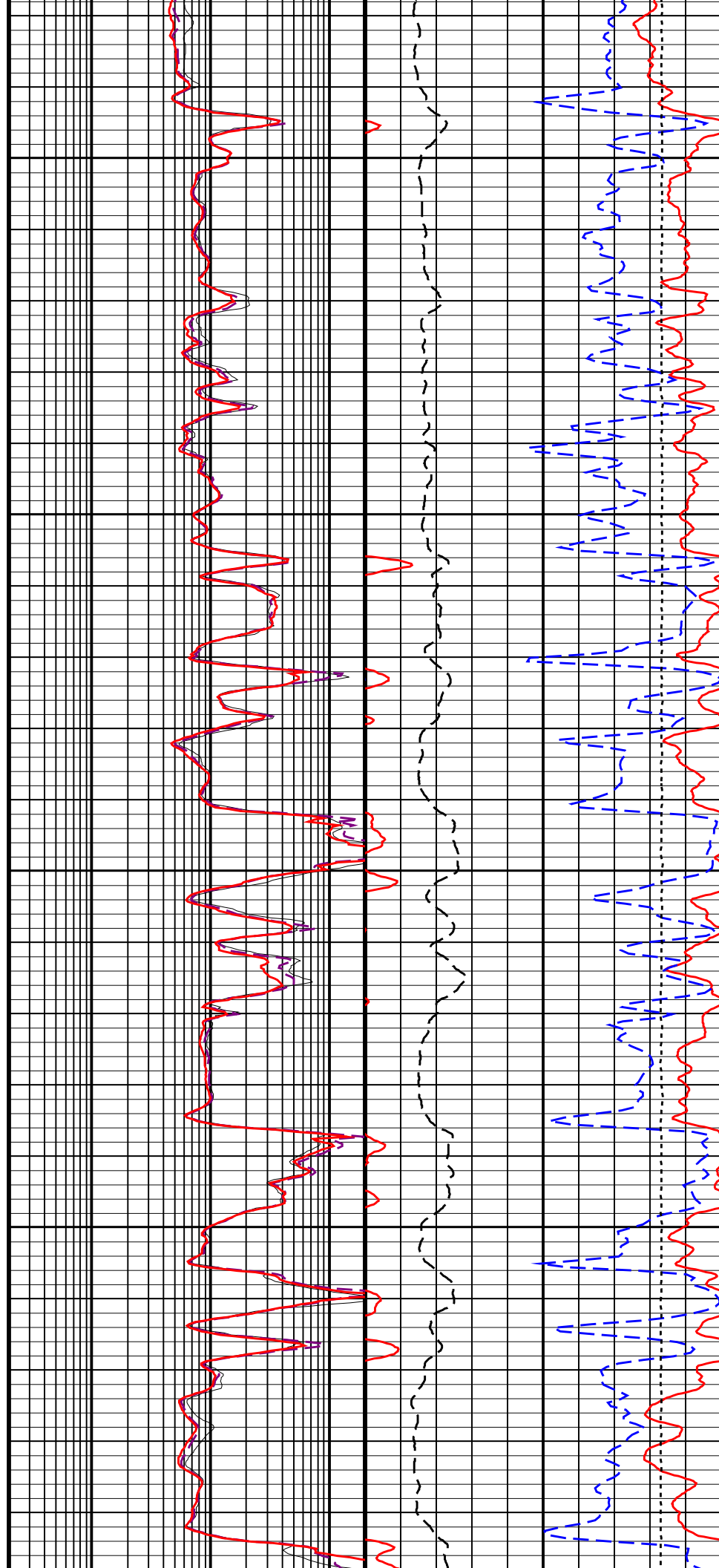
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3900

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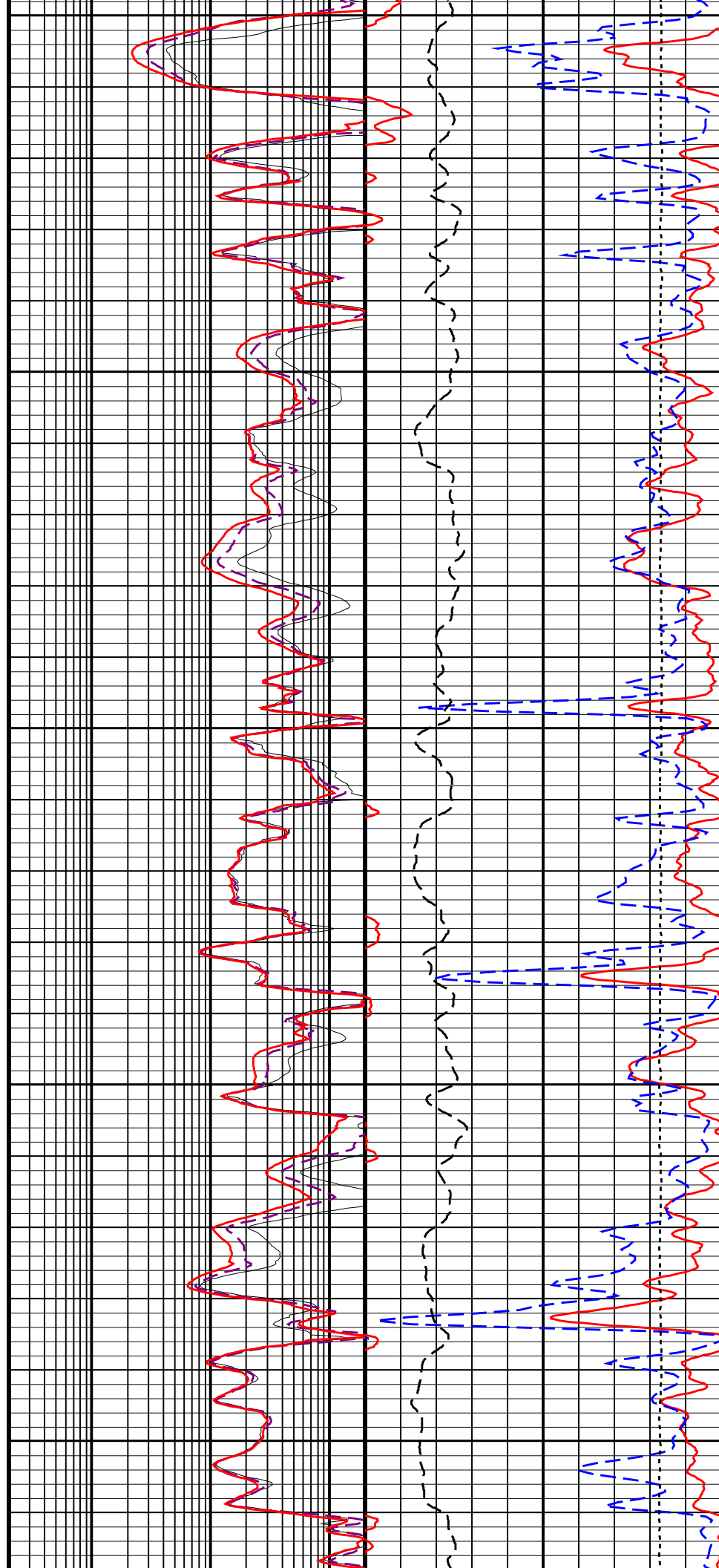


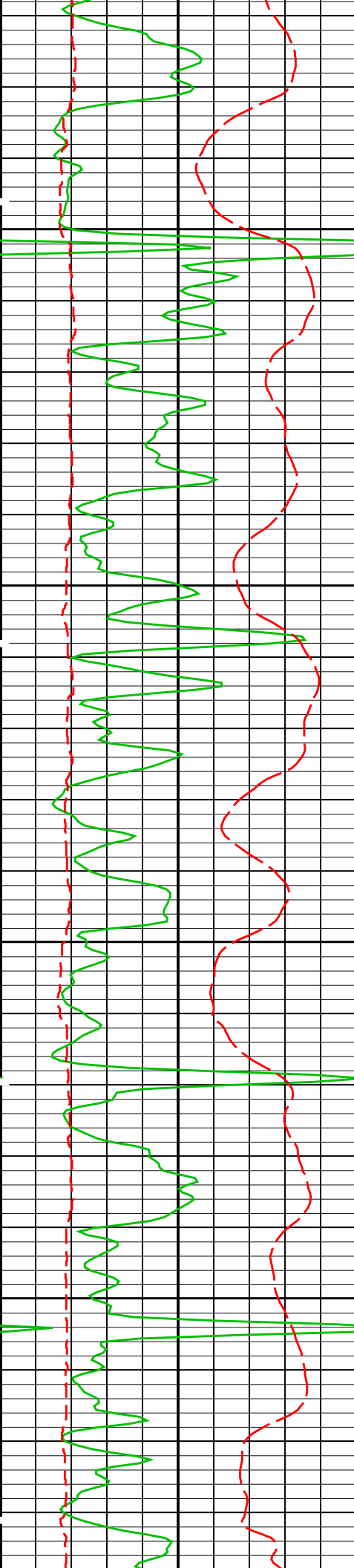


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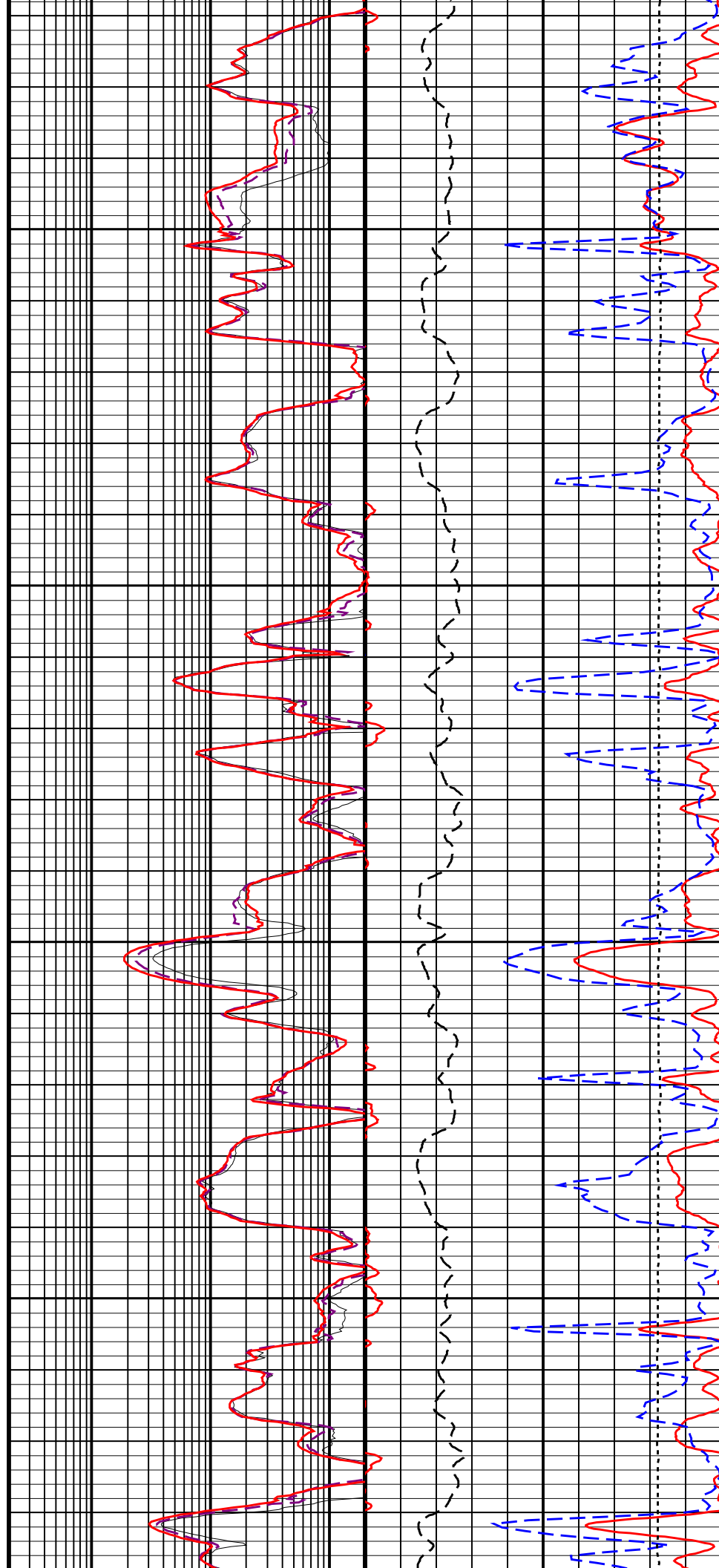
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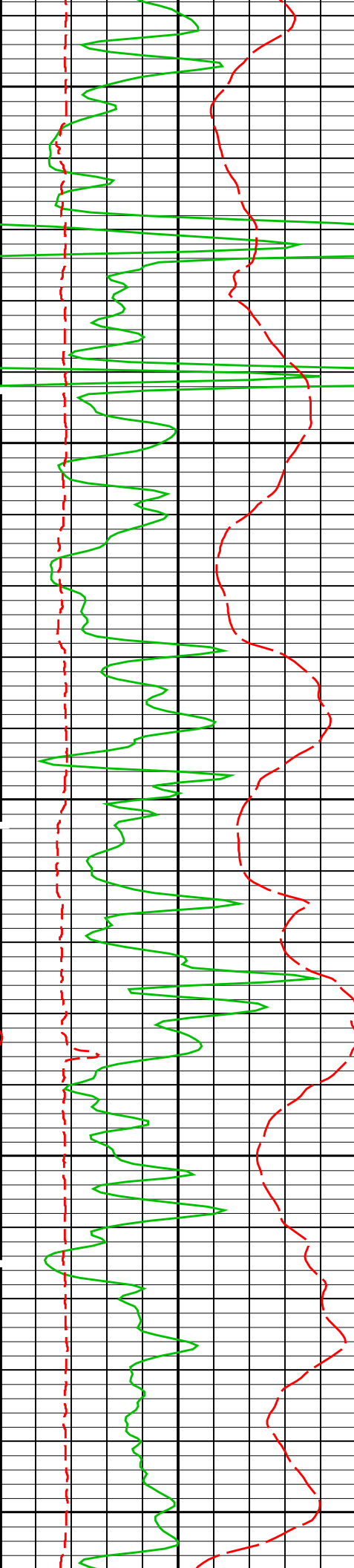


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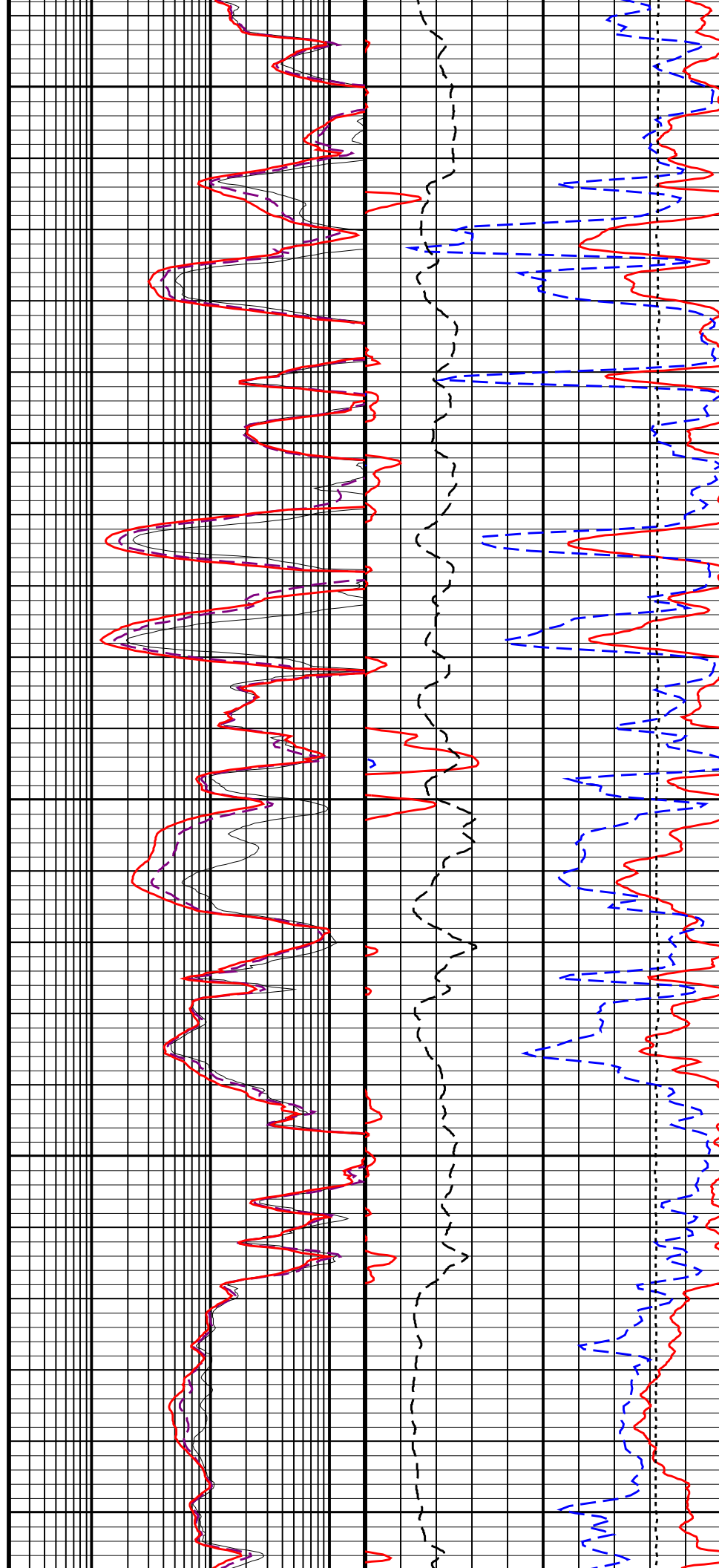


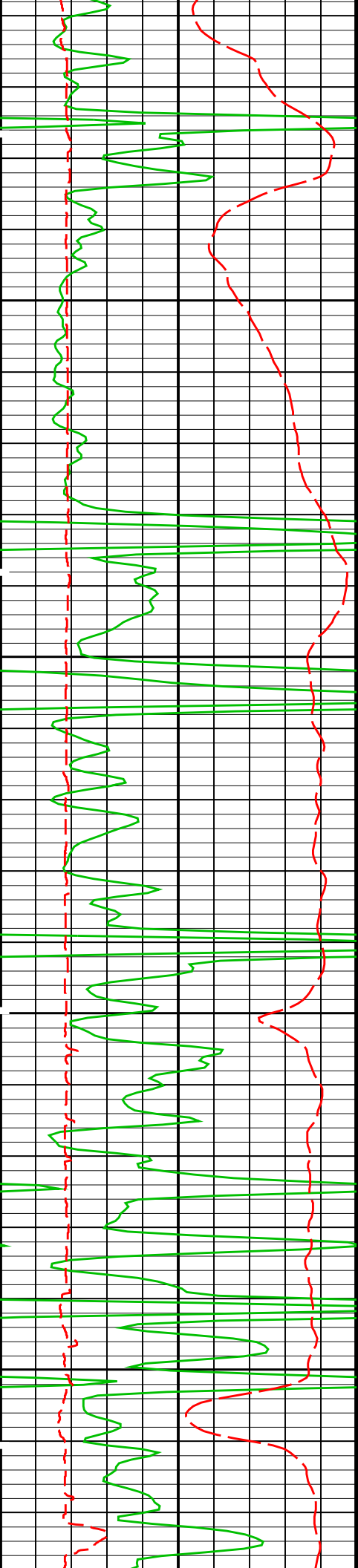




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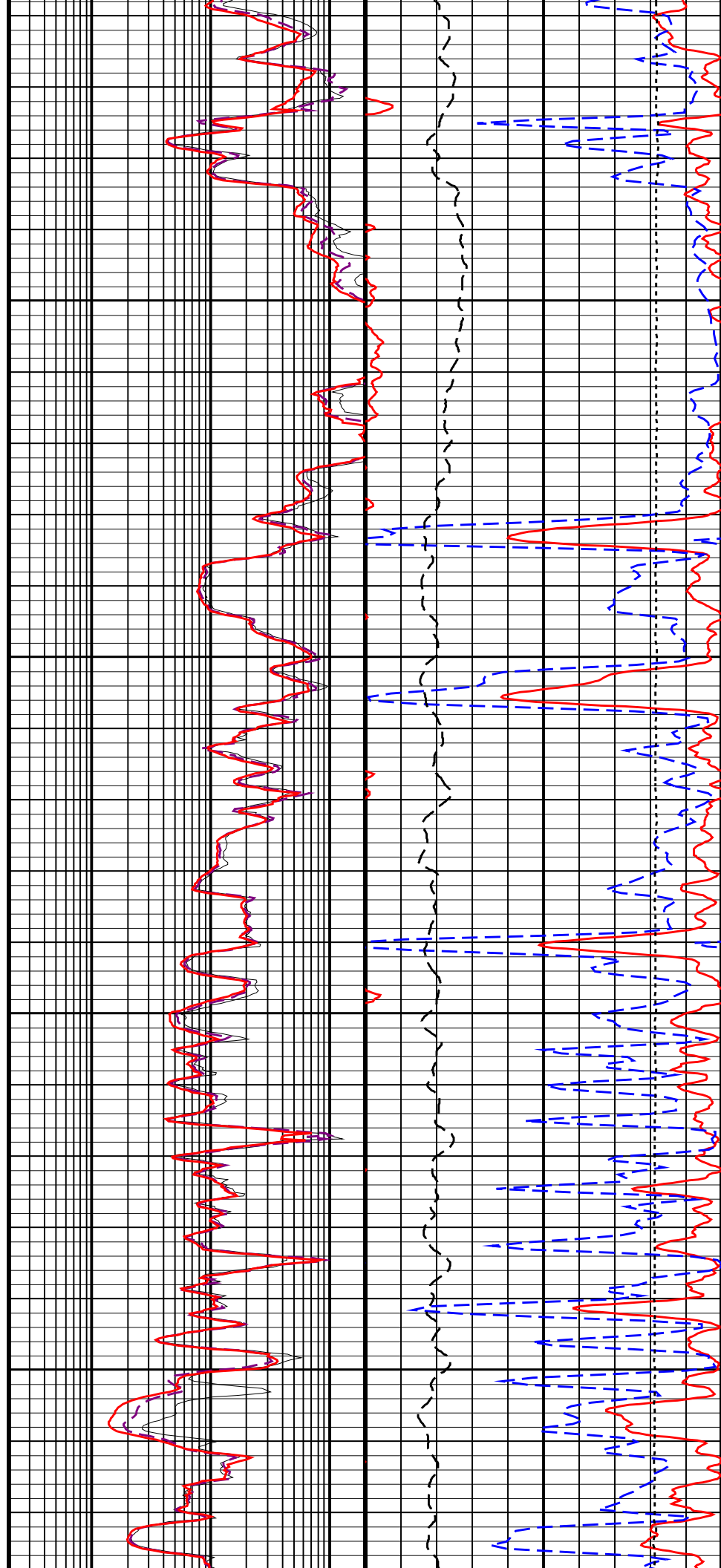
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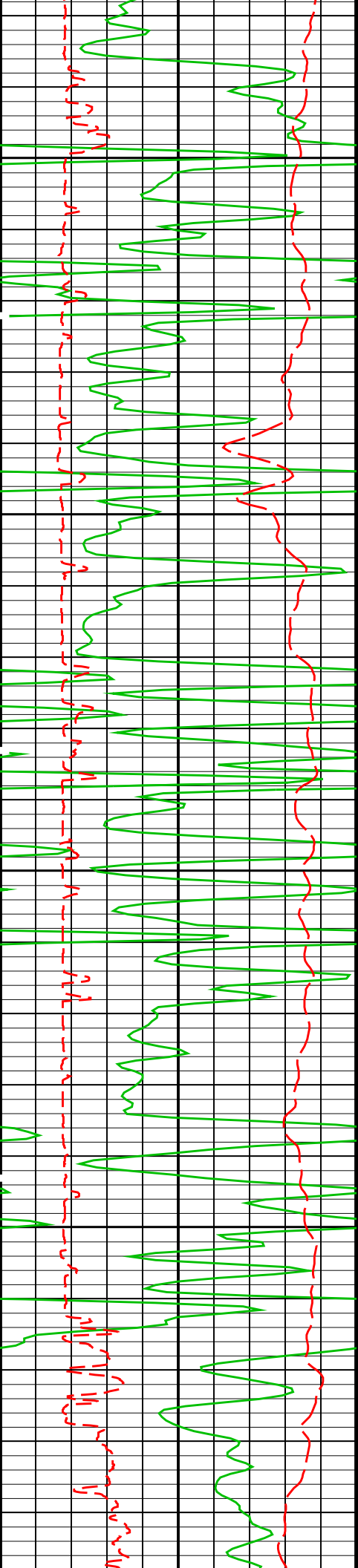




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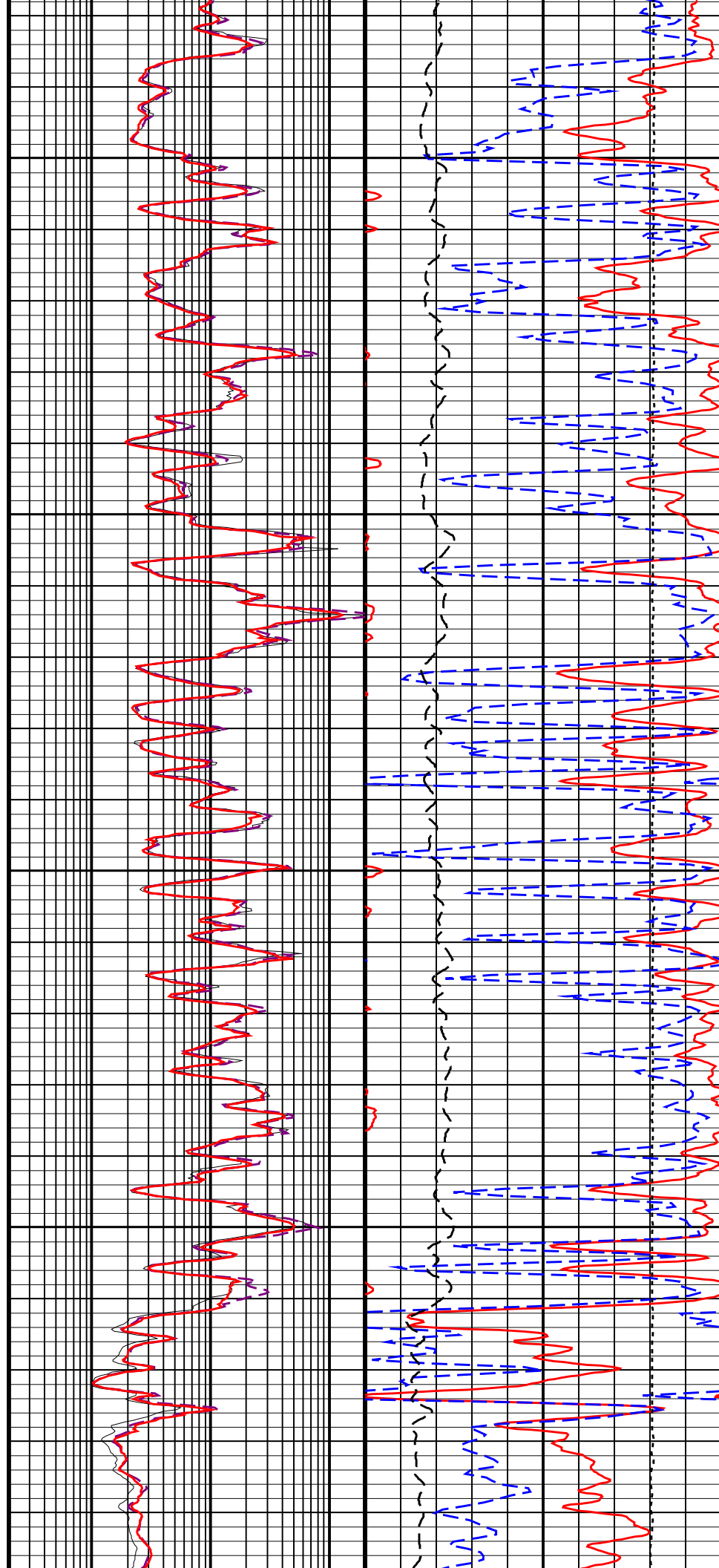
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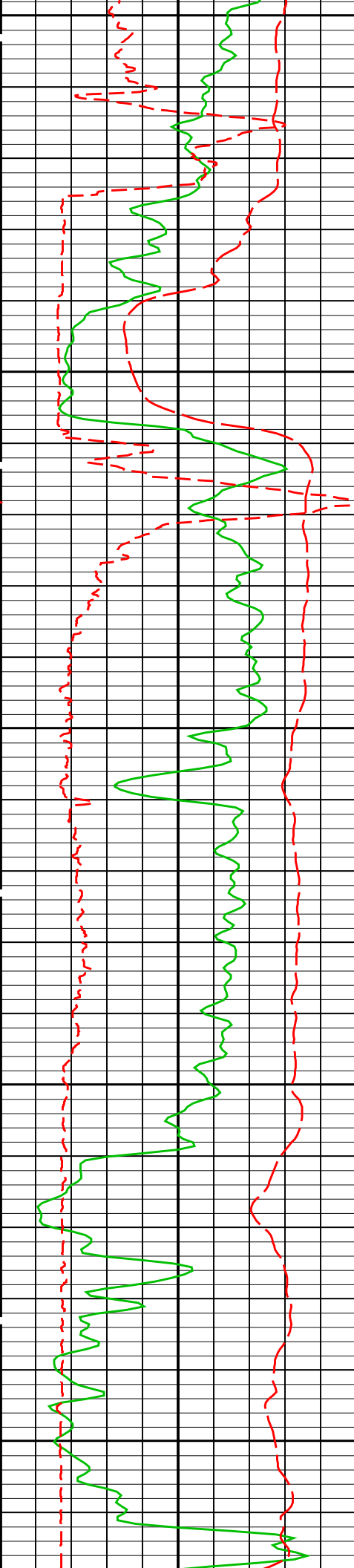




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5100

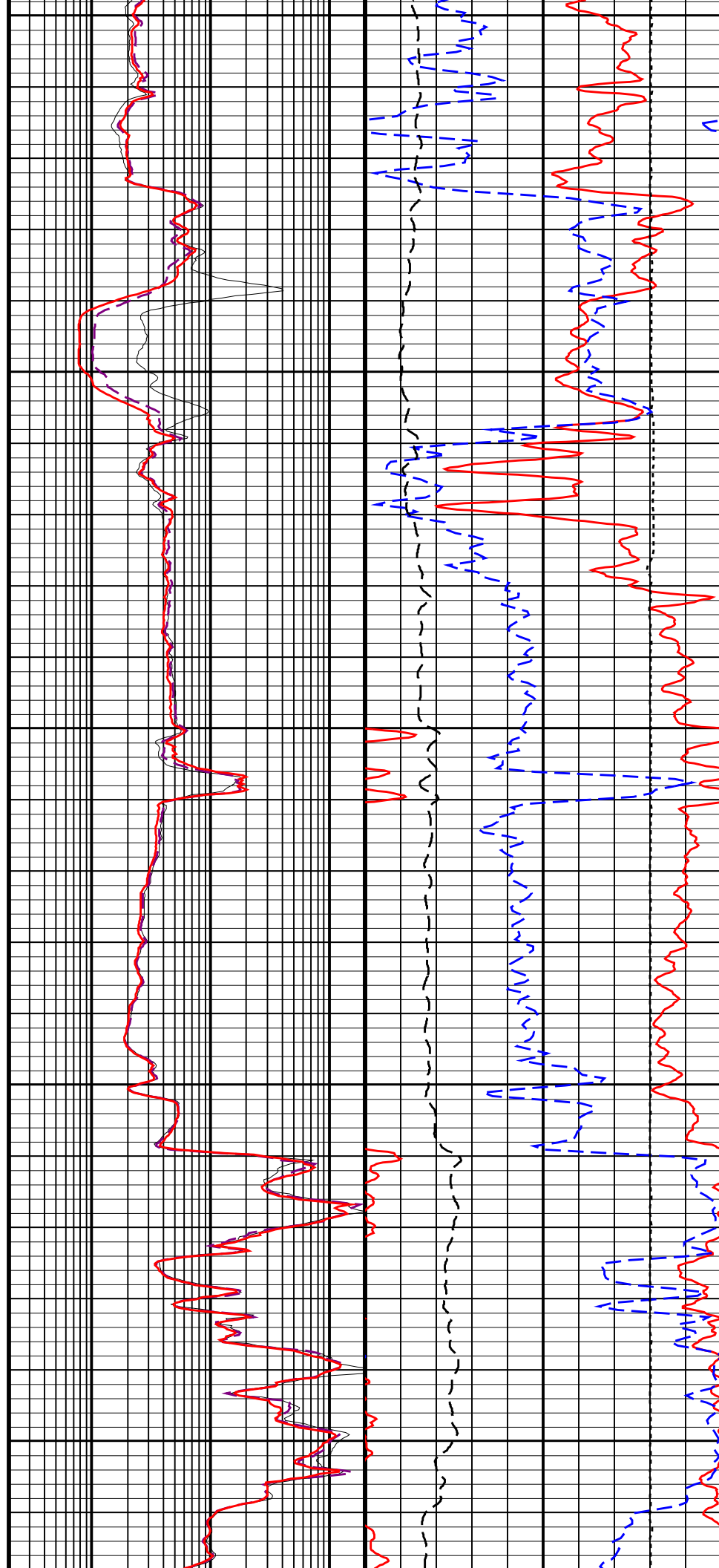


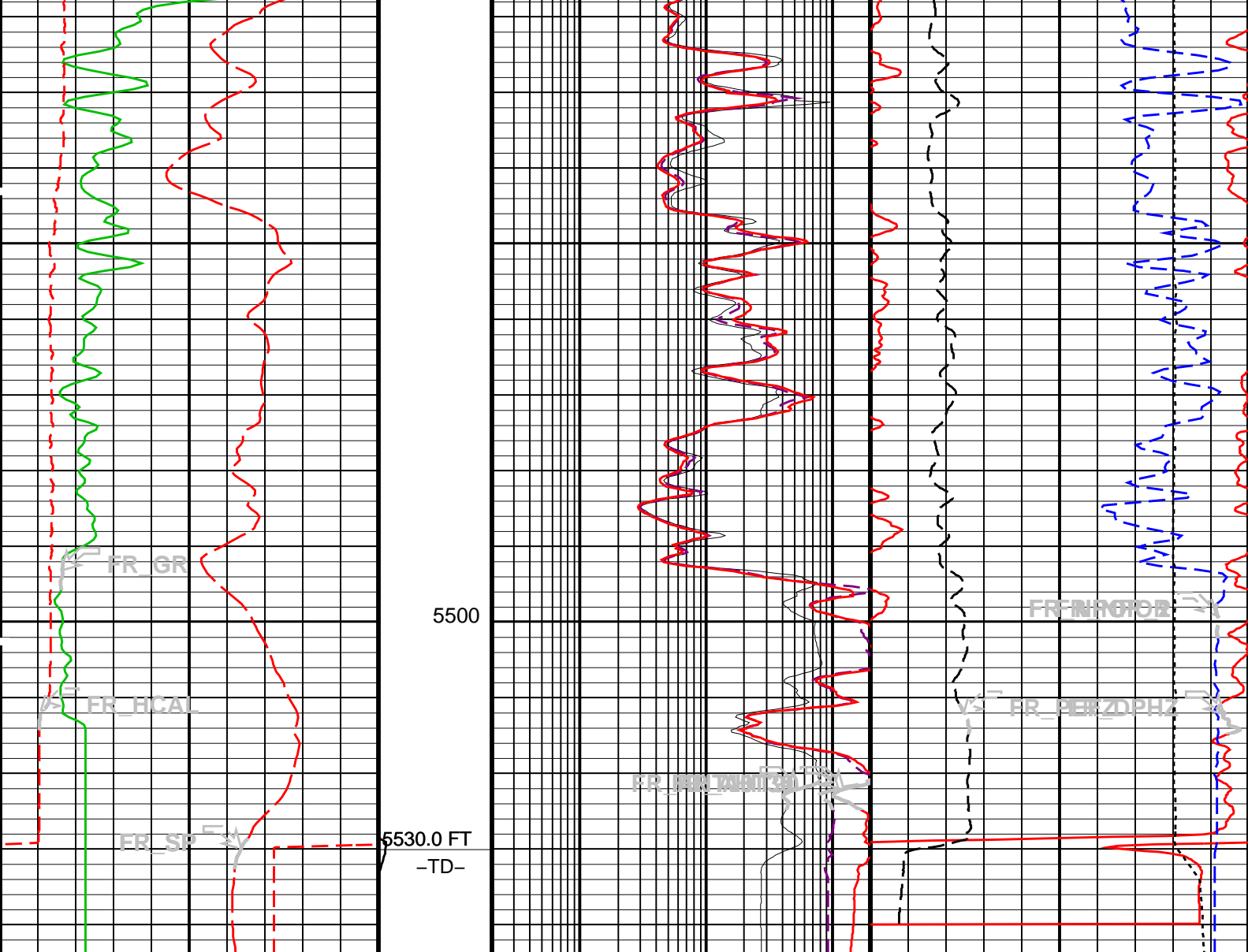


5200

5300

5400





<div>Gamma Ray (GR) (GAPI)</div> <div>0200</div>	<div>Stuck Stretch (STIT) (F) 50</div>	<div>AIT-H 10 Inch Investigation (AHT10)</div> <div>0.2200</div> <div>(OHMM)</div>	<div>Std. Res. Density Porosity (DPHZ)</div> <div>0.50</div> <div>(V/V)</div>
		<div>AIT-H 30 Inch Investigation (AHT30)</div> <div>0.2200</div> <div>(OHMM)</div>	<div>Alpha Processed Neutron Porosity (NPOR)</div> <div>0.50</div> <div>(V/V)</div>
		<div>AIT-H 90 Inch Investigation (AHT90)</div> <div>0.2200</div> <div>(OHMM)</div>	<div>Std. Res. Formation Pe (PEFZ)</div> <div>010</div> <div>(----)</div>
<div>HILT Caliper (HCAL) (IN)</div> <div>616</div>			<div>Tension (TENS)</div> <div>10000</div> <div>(LBF)</div>
<div>SP (AHSCA) (MV)</div> <div>-16040</div>			

#### 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	900
AHBLM	Array Induction Basic Logs Mode	6_One_Two_and_Four
AHBLV	Array Induction Basic Logs Code Version Number	223
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	41.70.24.20
AHMPF	Array Induction Mod Porosity Factor	1

AHMRP	Array Induction Mud Resistivity Factor	41.70.24.20	
AHORSV	Array Induction Response Set Version for One ft Resolution	701	
AHRFV	Array Induction Radial Profiling Code Version Number	232	
AHRPV	Array Induction Radial Parametrization Code Version Number	0.125	IN
AHSTA	Array Induction Tool Standoff	41.70.24.20	
AHTRSV	Array Induction Response Set Version for Two ft Resolution	WATER	
BHFL	Borehole Fluid Type	WATER	
BHFL_TLD	HILT Nuclear Mud Base	OPEN	
BHS	Borehole Status	180.64	DEGF
BHT	Bottom Hole Temperature (used in calculations)	NO	
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	BS	
DHC	Density Hole Correction	1	G/C3
FD	Fluid Density	2	
FEXP	Form Factor Exponent	1	
FNUM	Form Factor Numerator	-50000	PPM
FSAL	Formation Salinity	NO	
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	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.71	G/C3
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HiRes	
NSAR	HRDD Depth Sampling Rate	1	IN
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68	DEGF
SOCN	Standoff Distance	0.125	IN
SOCO	Standoff Correction Option	YES	
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	TDL	
STKT	STI Stuck Threshold	2.5	FT
TDD	Total Depth - Driller	5536.00	FT
TDL	Total Depth - Logger	5530.00	FT
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	180.64	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	68	DEGF
FEQL: Formation Evaluation Quick Look			
FEXP	Form Factor Exponent	2	
FNUM	Form Factor Numerator	1	
PERT: Preliminary Evaluation - Real Time			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	180.64	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	68	DEGF
System and Miscellaneous			
BS	Bit Size	7.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	8.625	IN
CWEI	Casing Weight	24.00	LB/F
DFD	Drilling Fluid Density	9.20	LB/G
DORL	Depth Offset for Repeat Analysis	0.0	FT
FLEV	Fluid Level	-50000.00	FT
MST	Mud Sample Temperature	80.13	DEGF
RMFS	Resistivity of Mud Filtrate Sample	0.7665	OHMM
TD	Total Depth	5530	FT

HILTB-CTS18C0-147

Output DLIS Files

DEFAULTAIT\_TLD\_MCFL\_CNL\_010LUPFN:9PRODUCER07-Jan-2011 22:18

Schlumberger

High Resolution

MAXIS Field Log

Company: Vecta Oil & Gas LTDWell: Torreys 44-33

Input DLIS Files

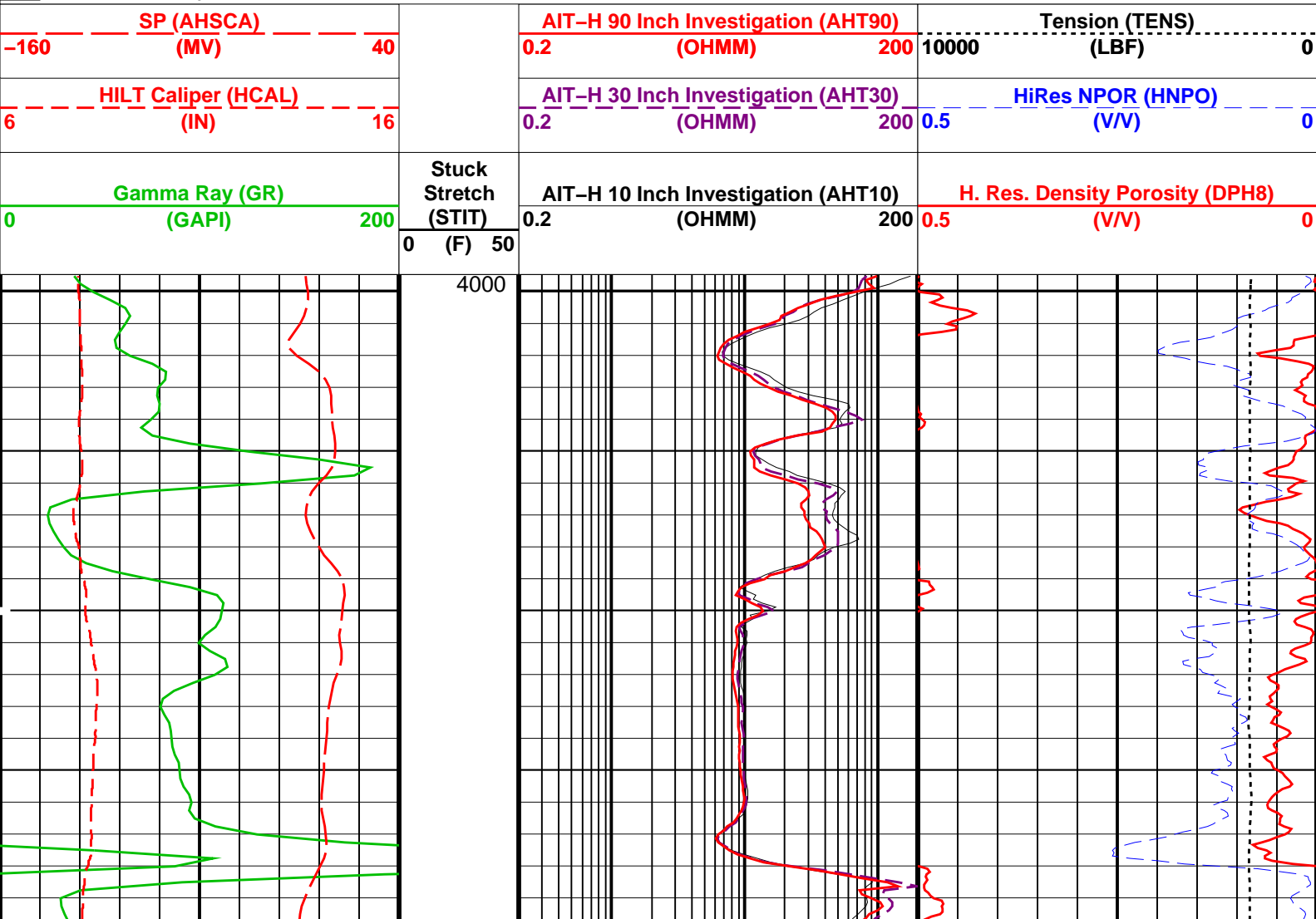
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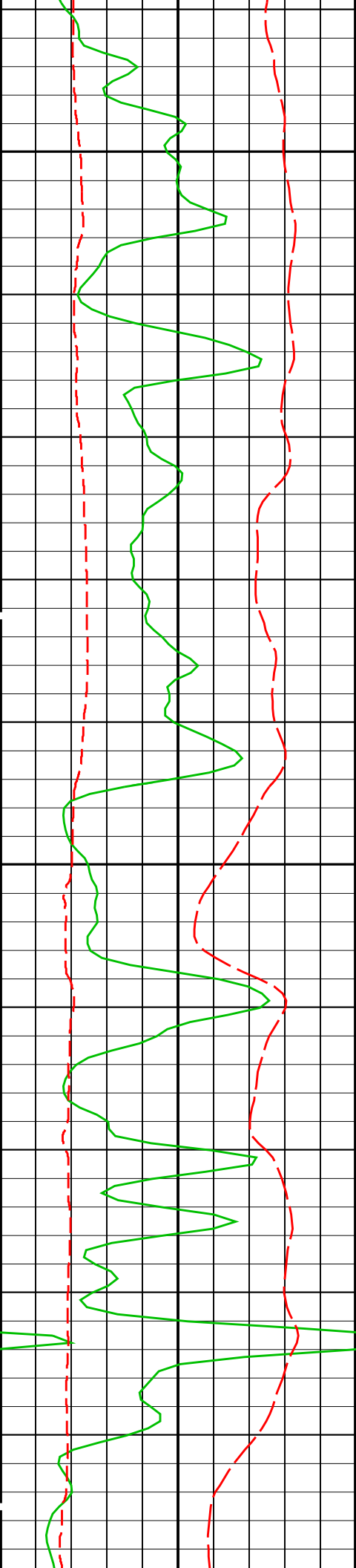
OP System Version: 18C0-147

HILTC18C0-147

PIP SUMMARY

Time Mark Every 60 S

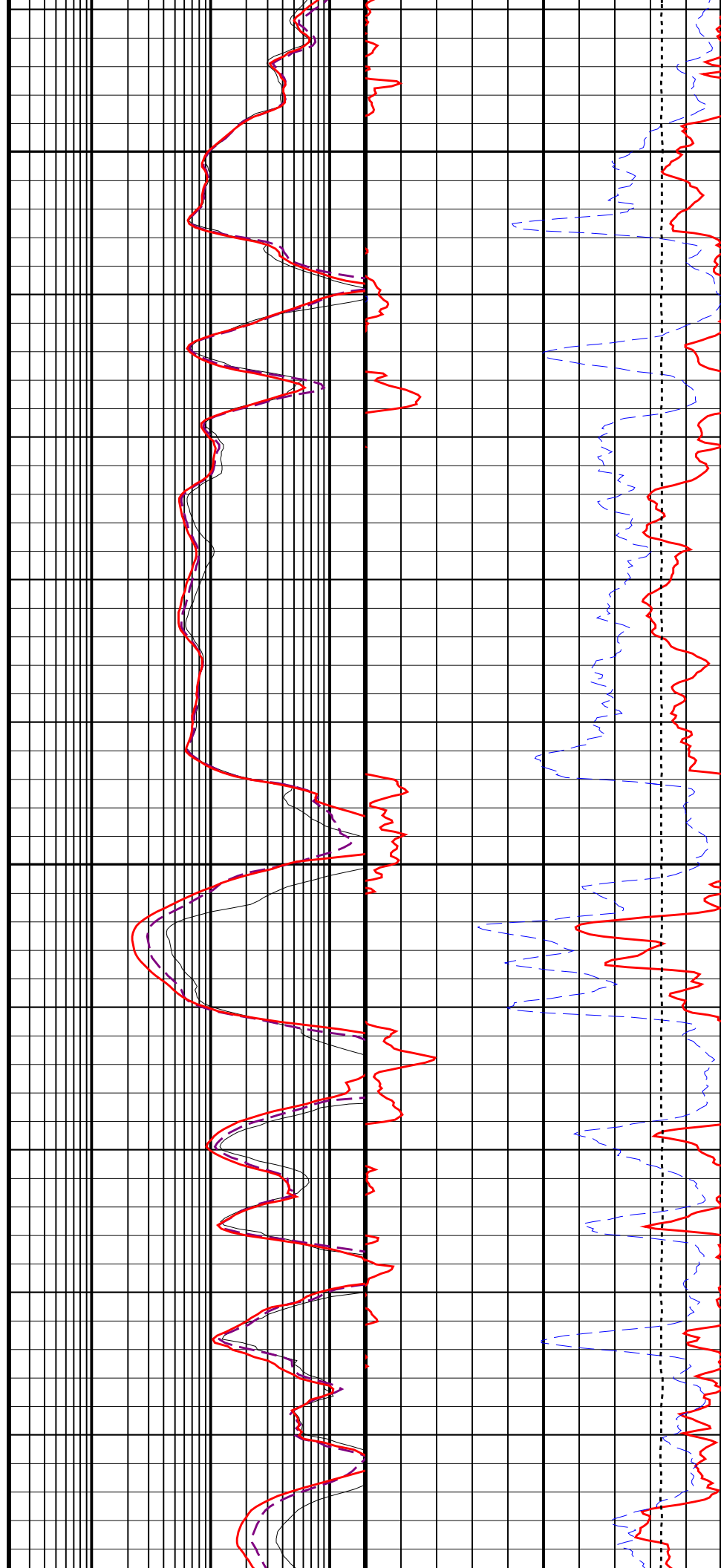




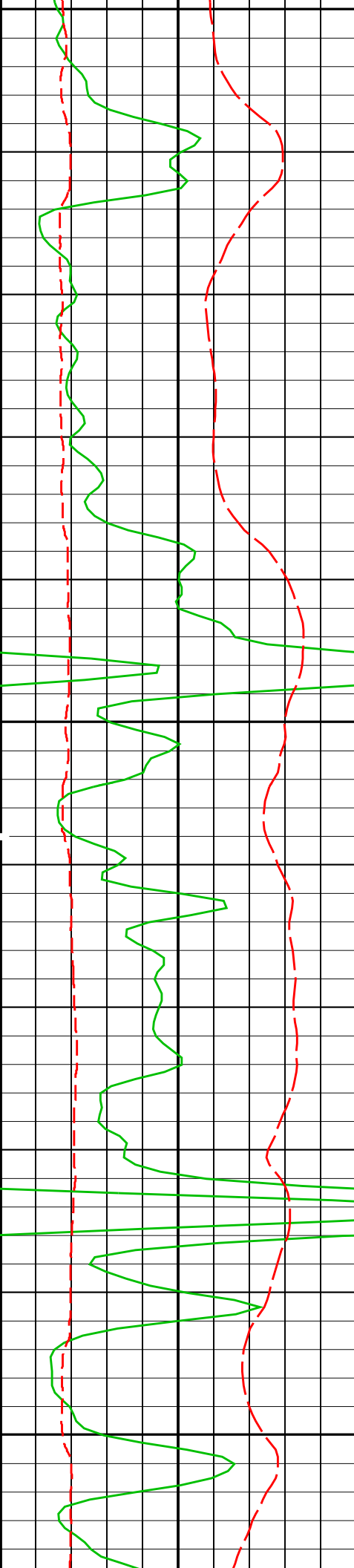
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4100

4150



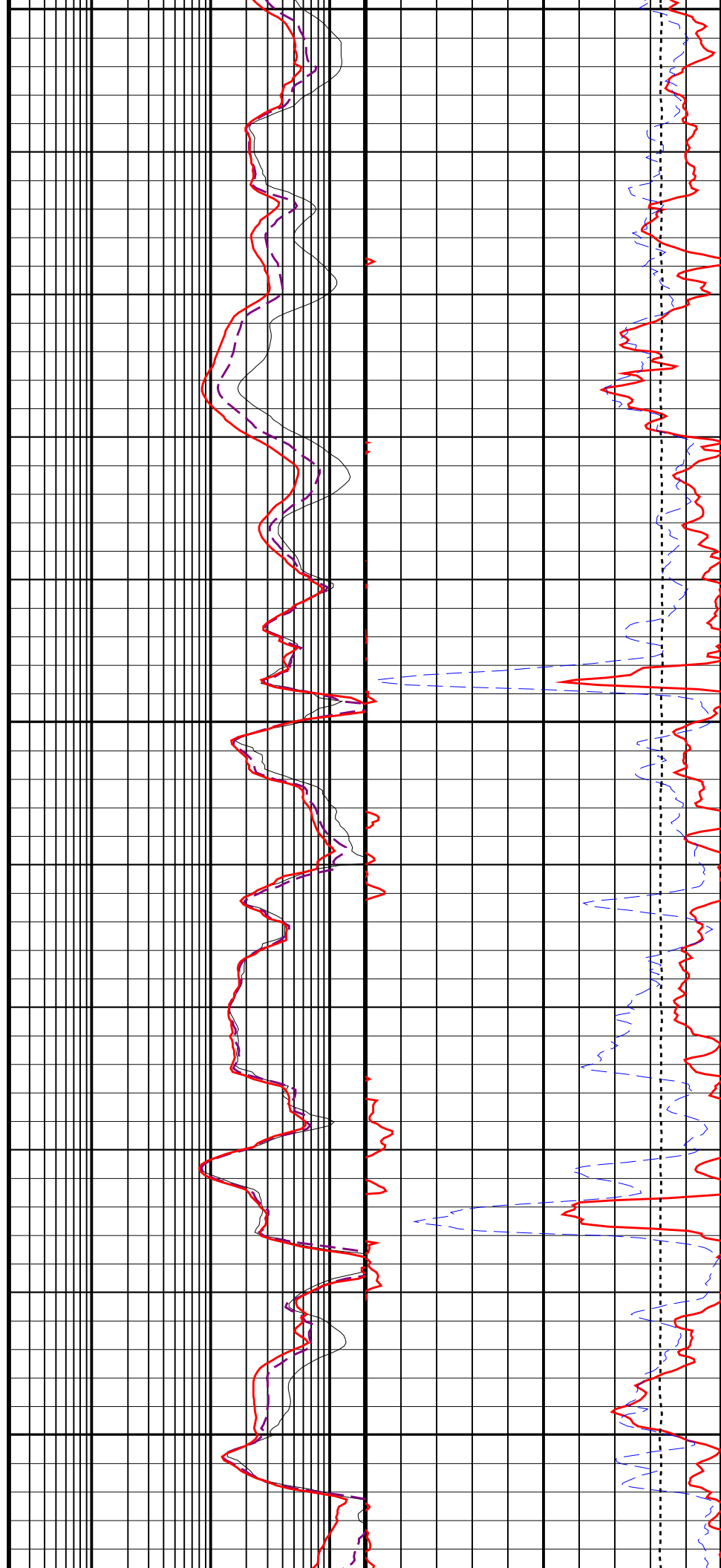


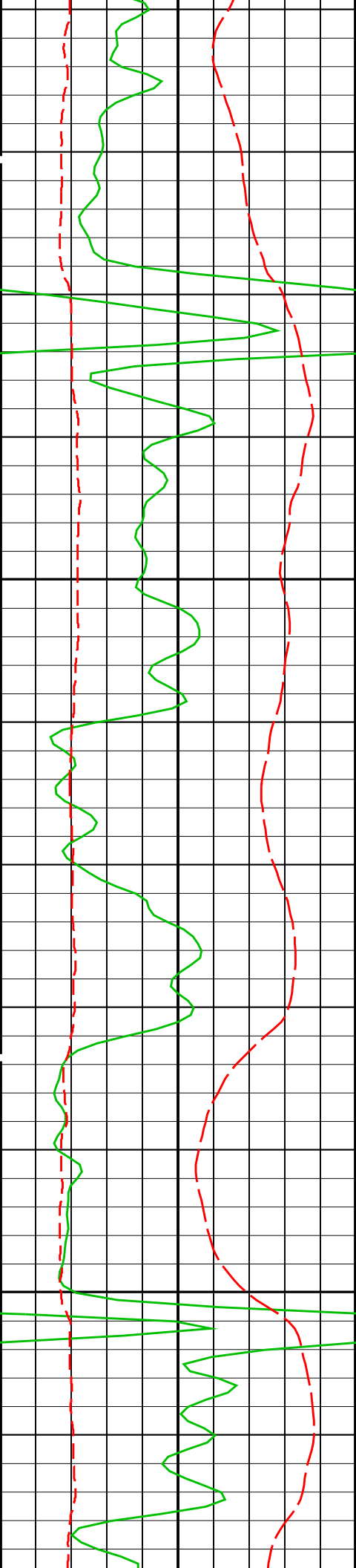


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4200

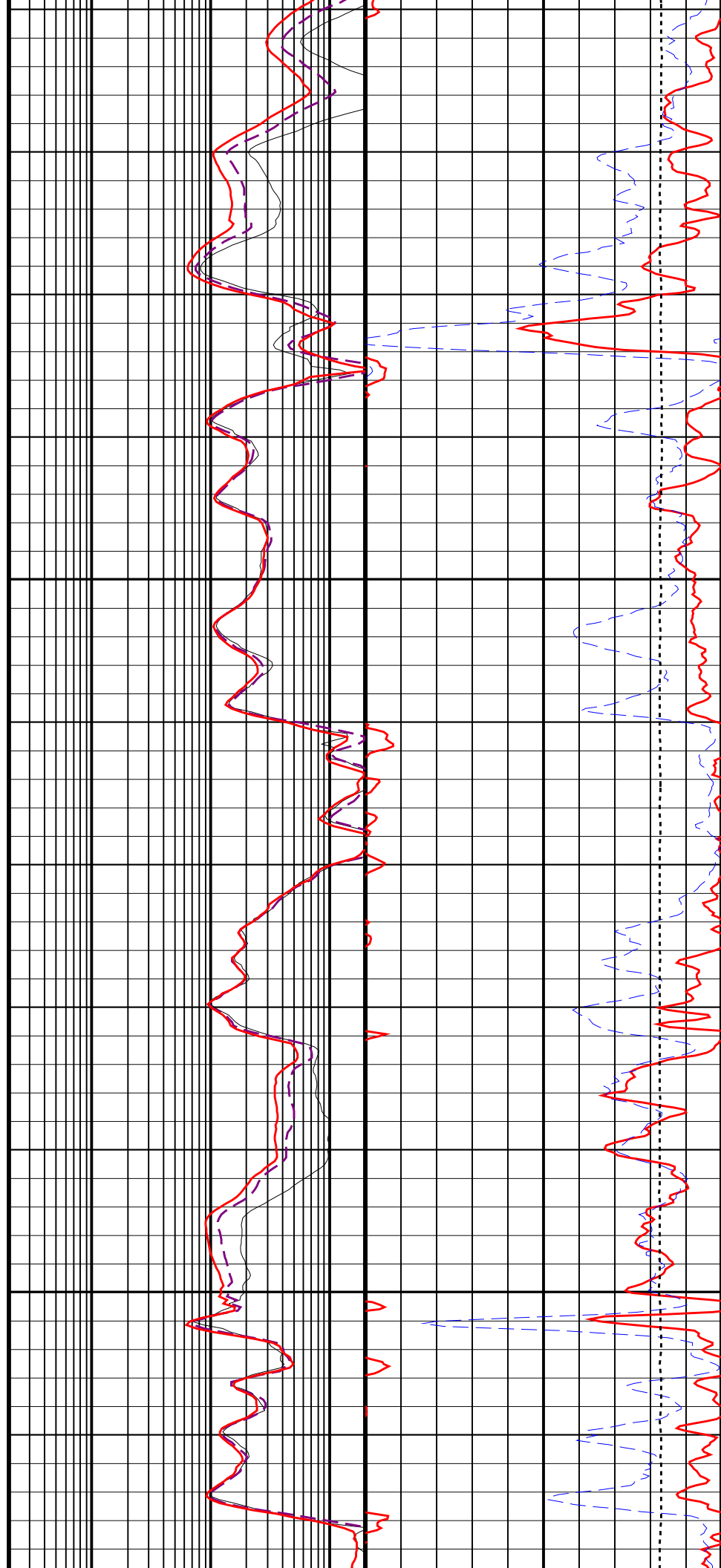
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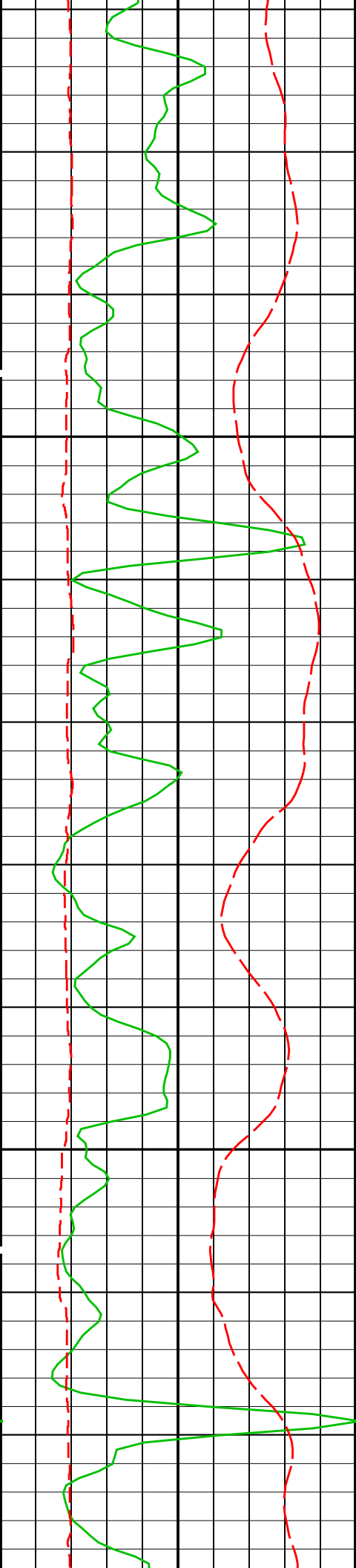




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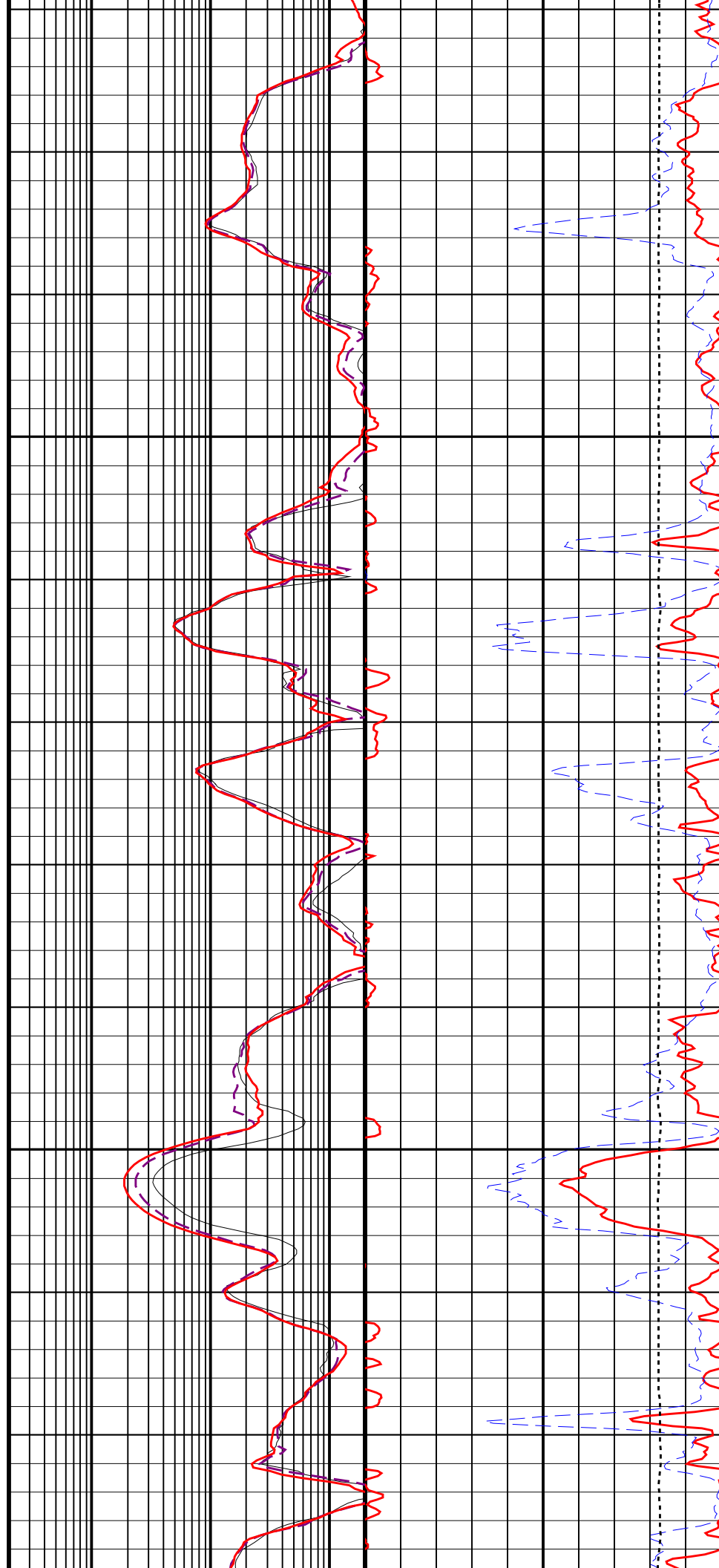
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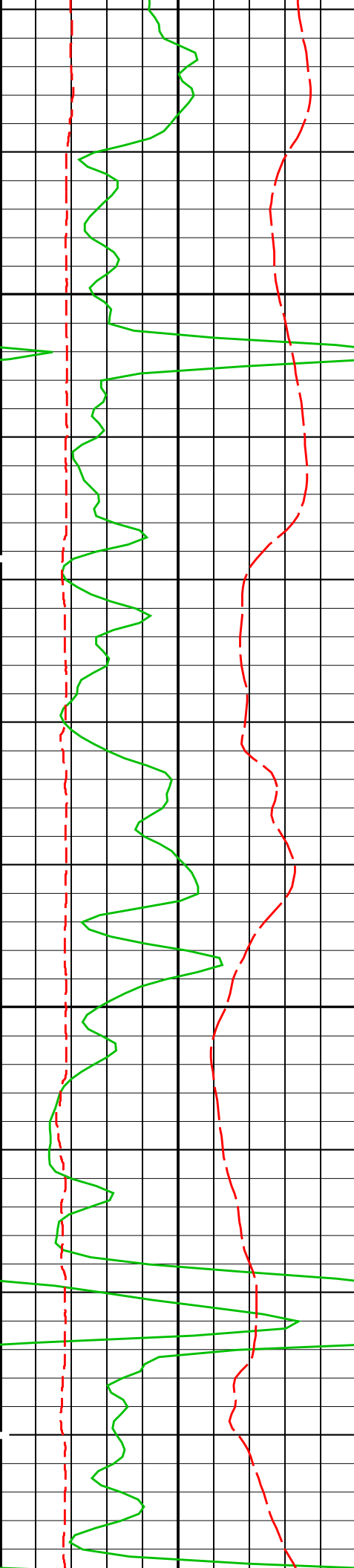




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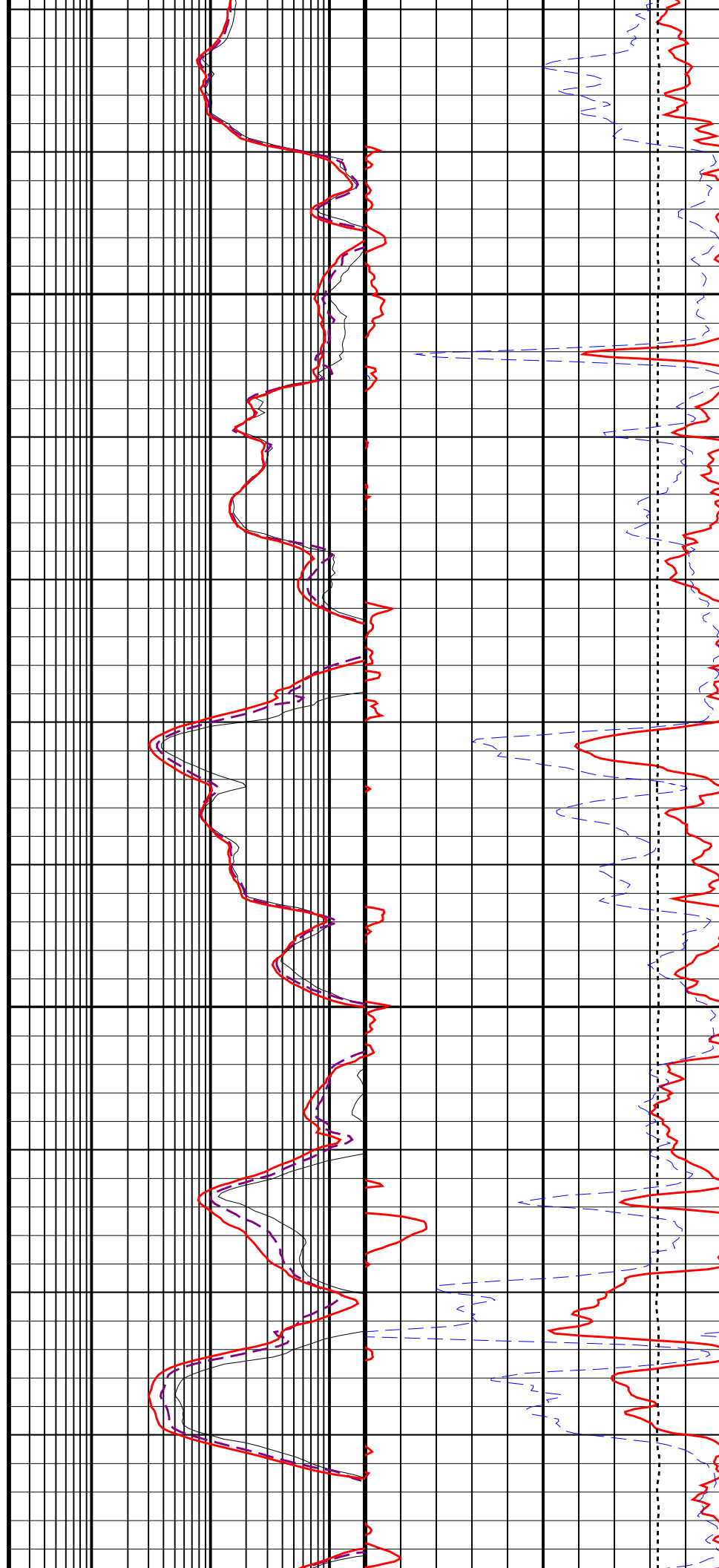
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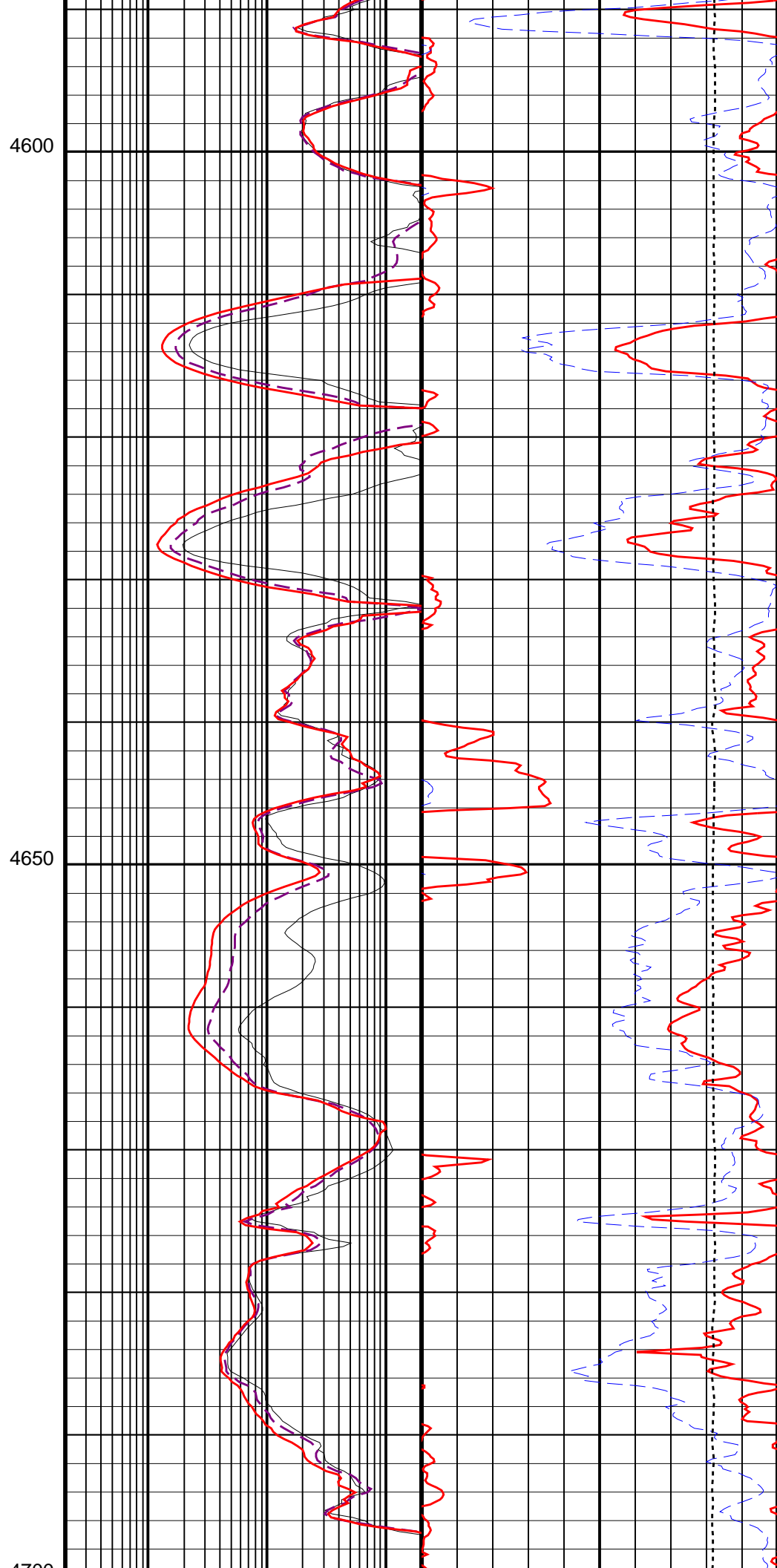
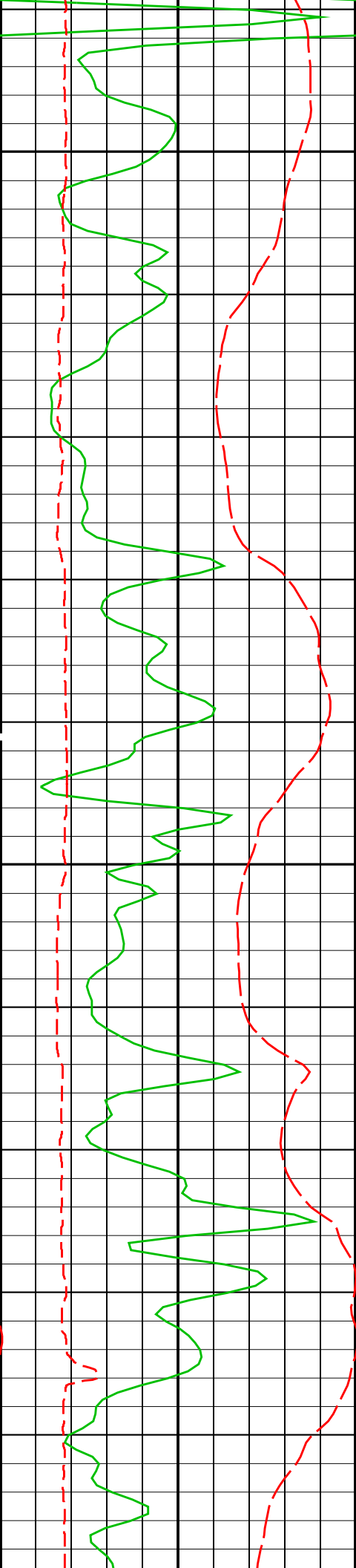


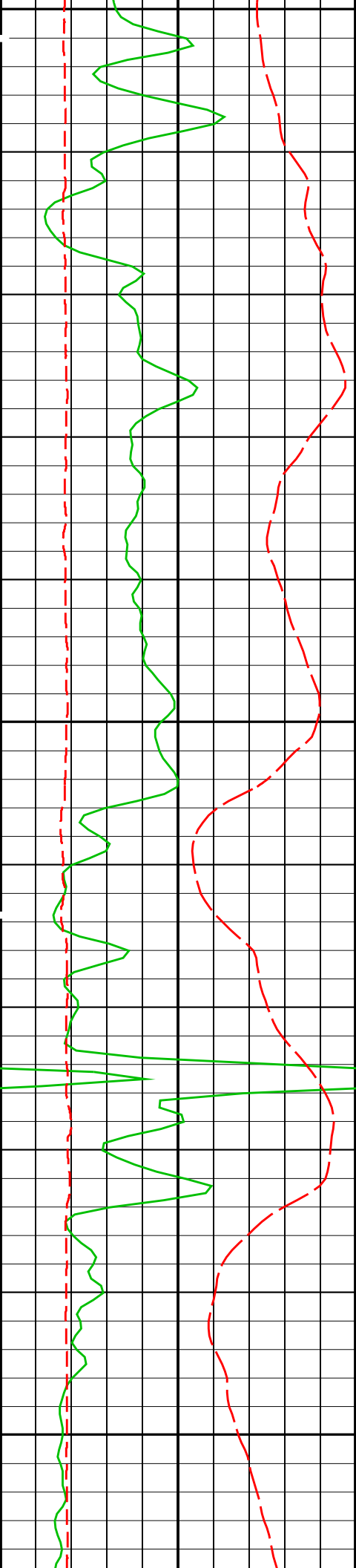


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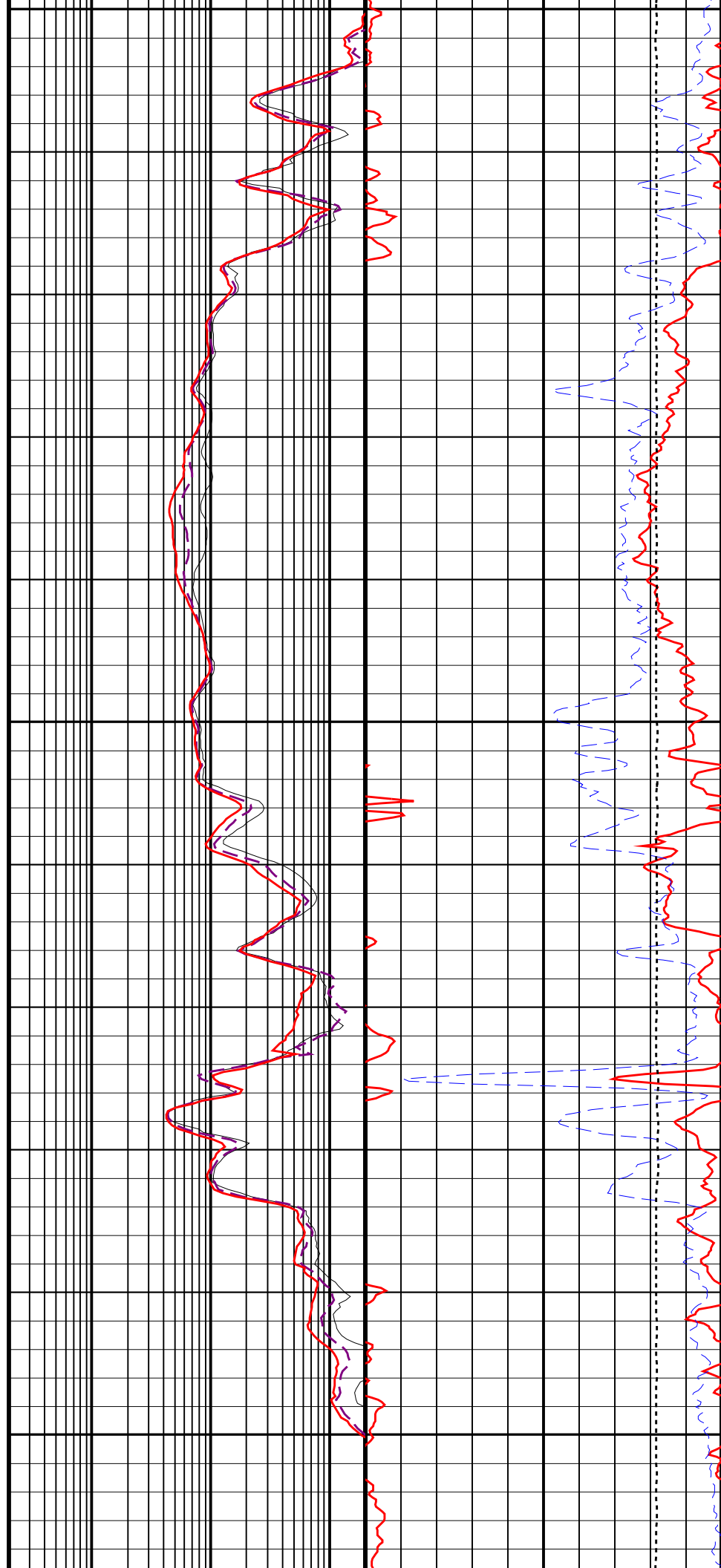


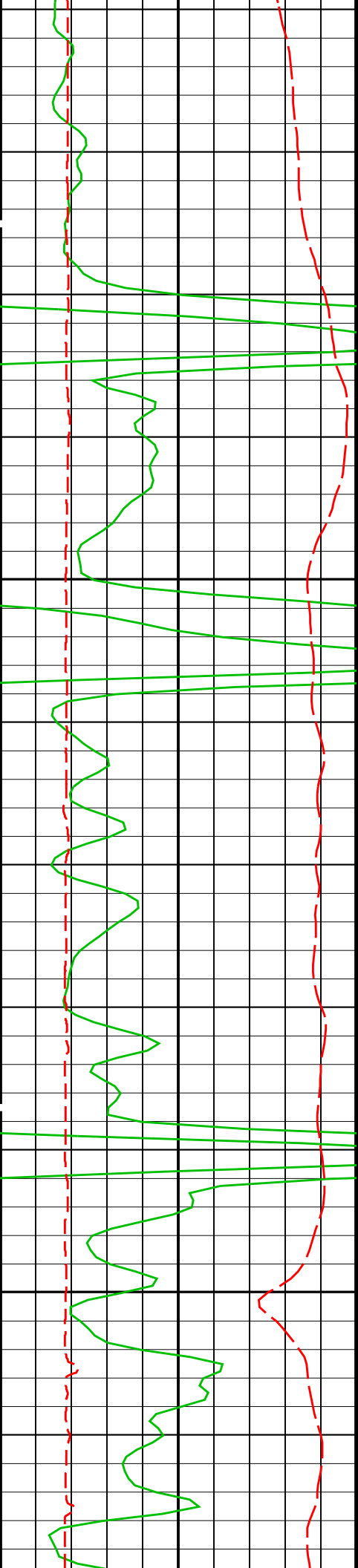


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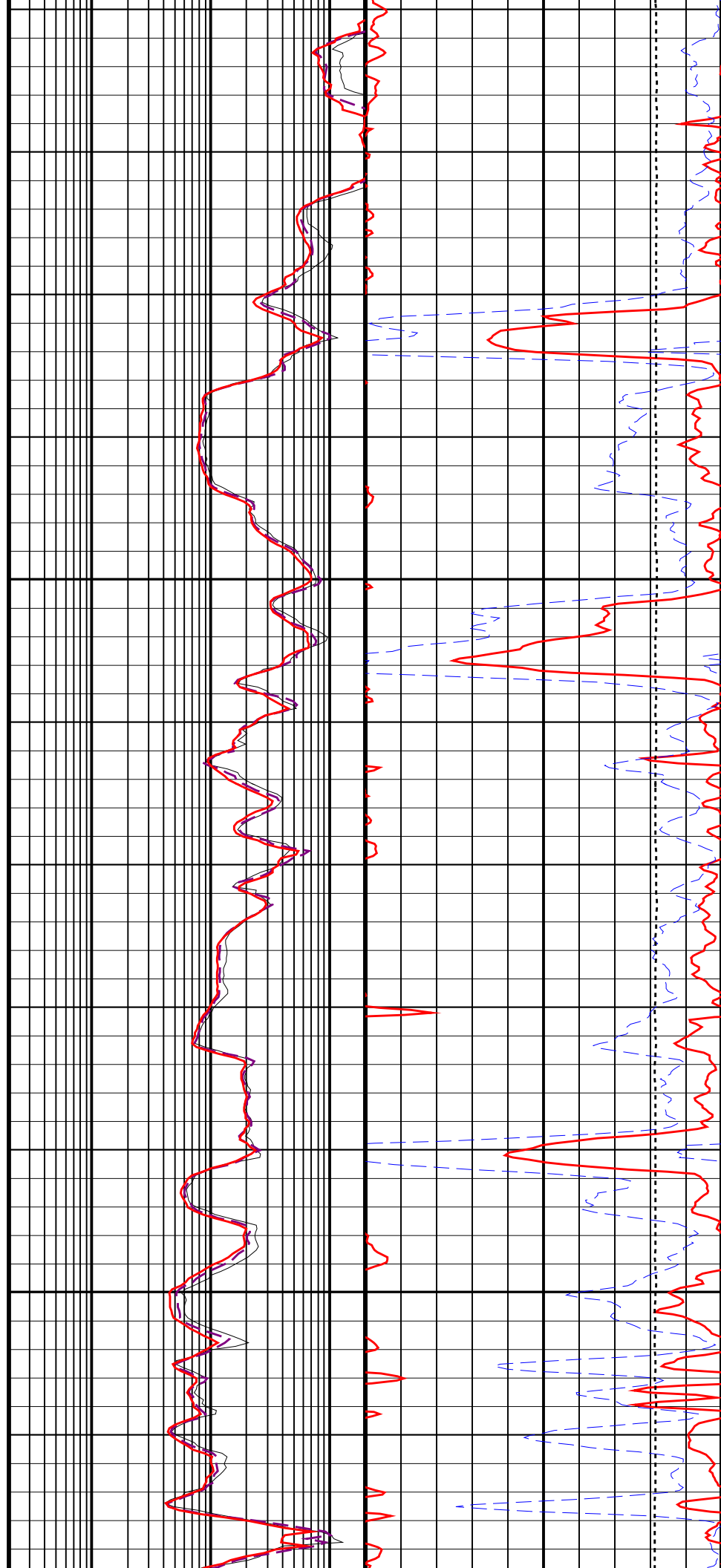
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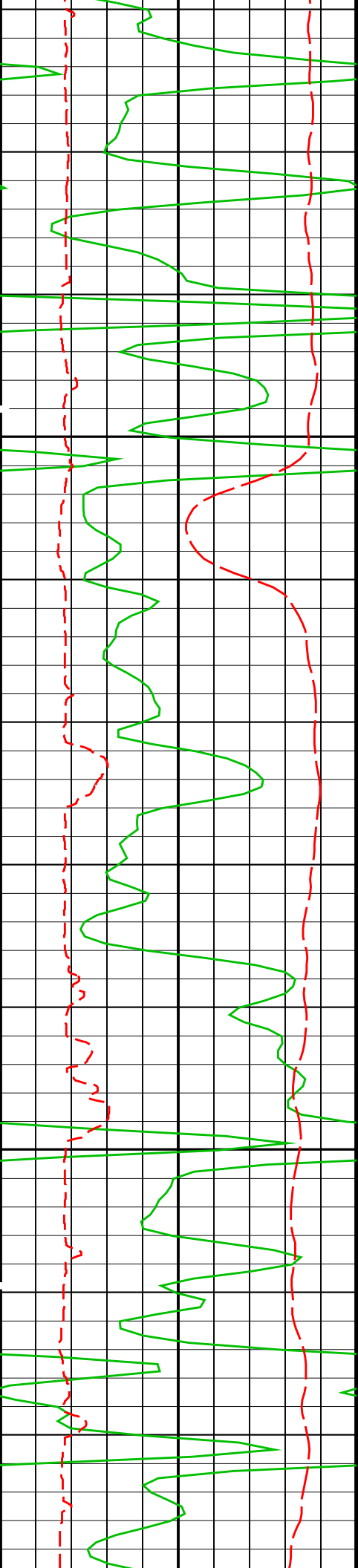




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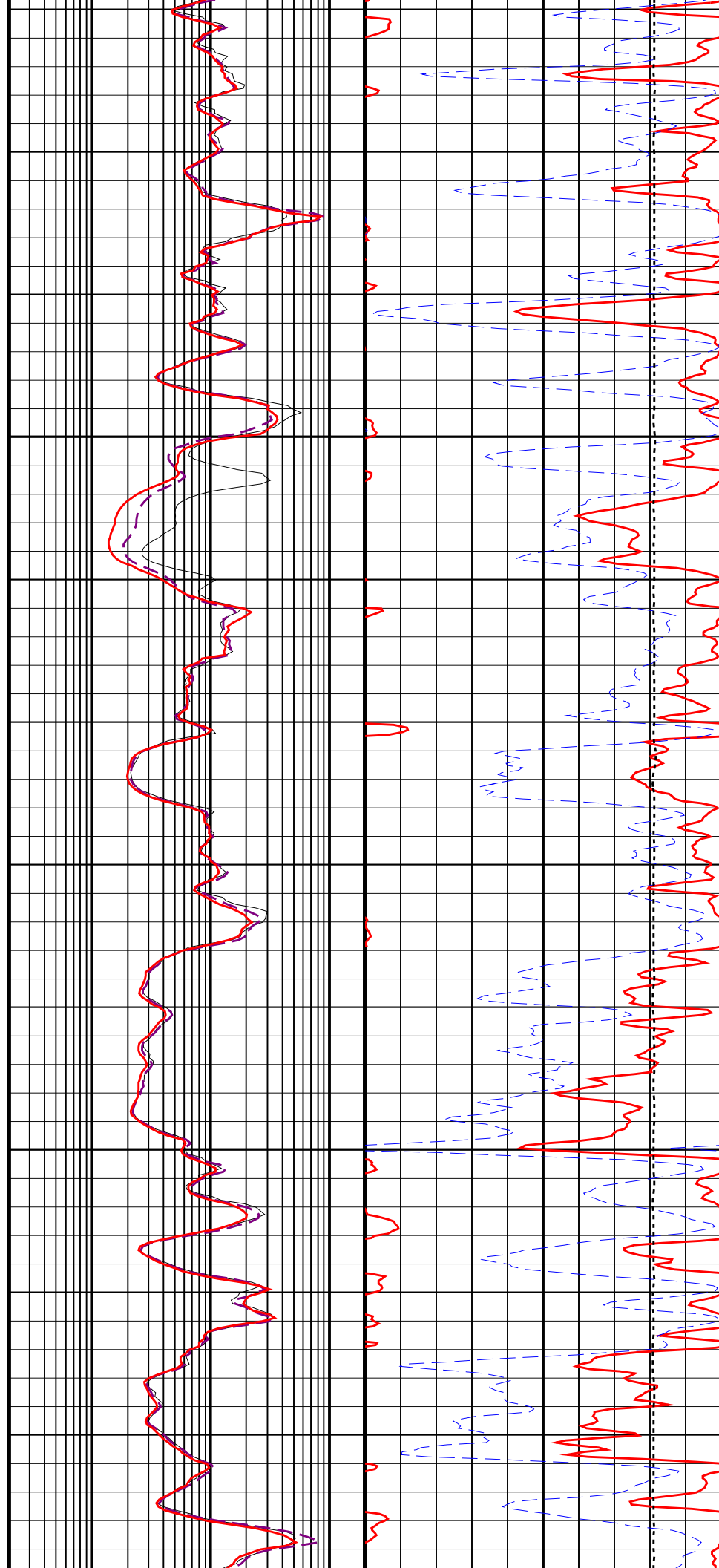
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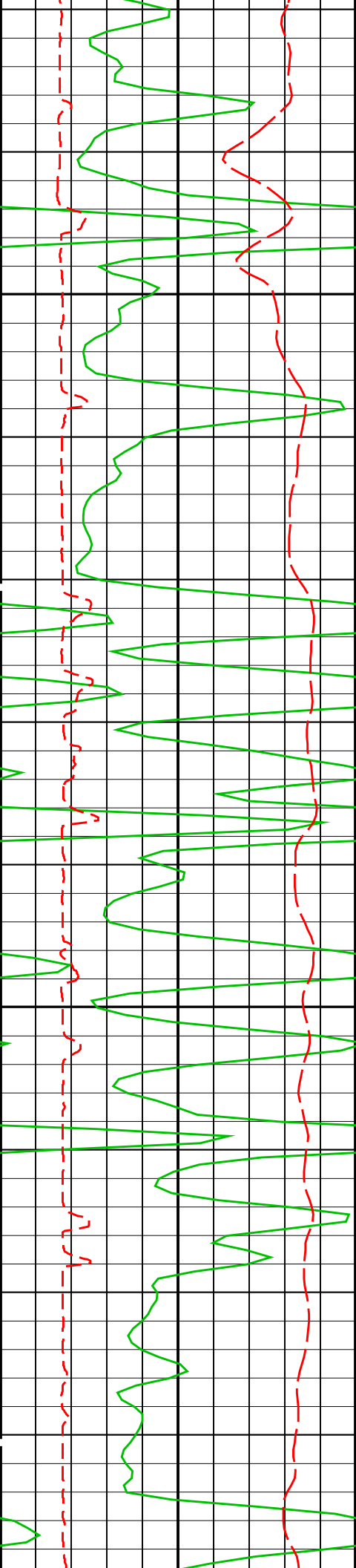


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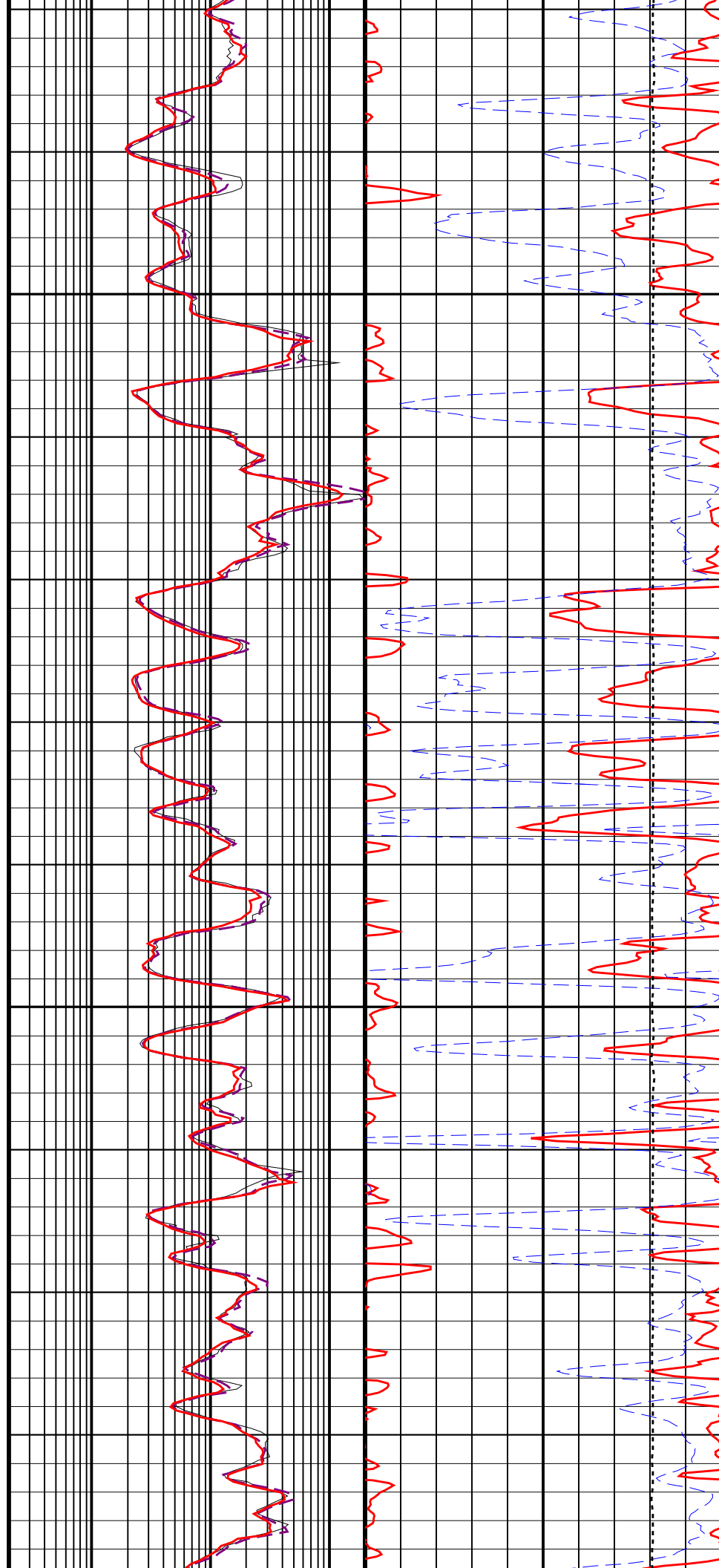


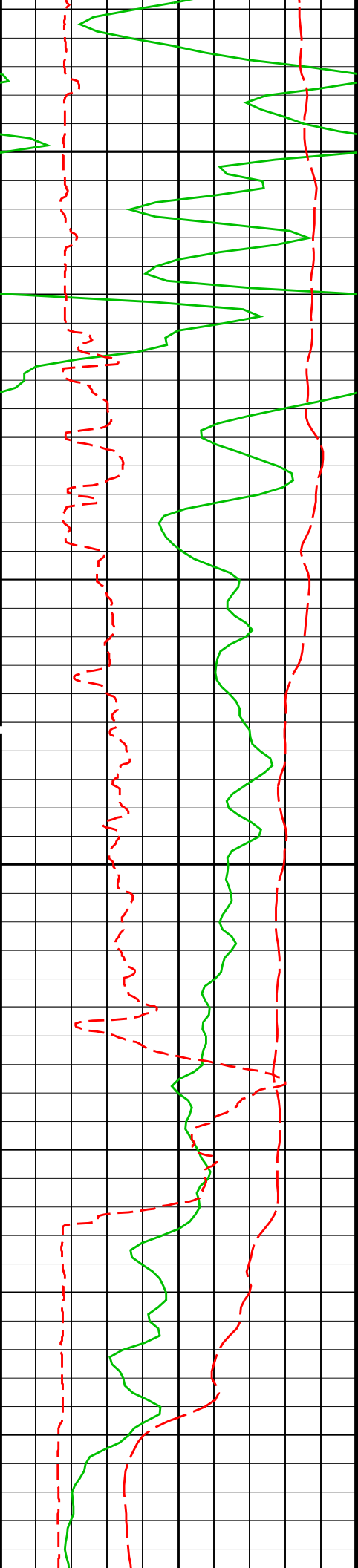




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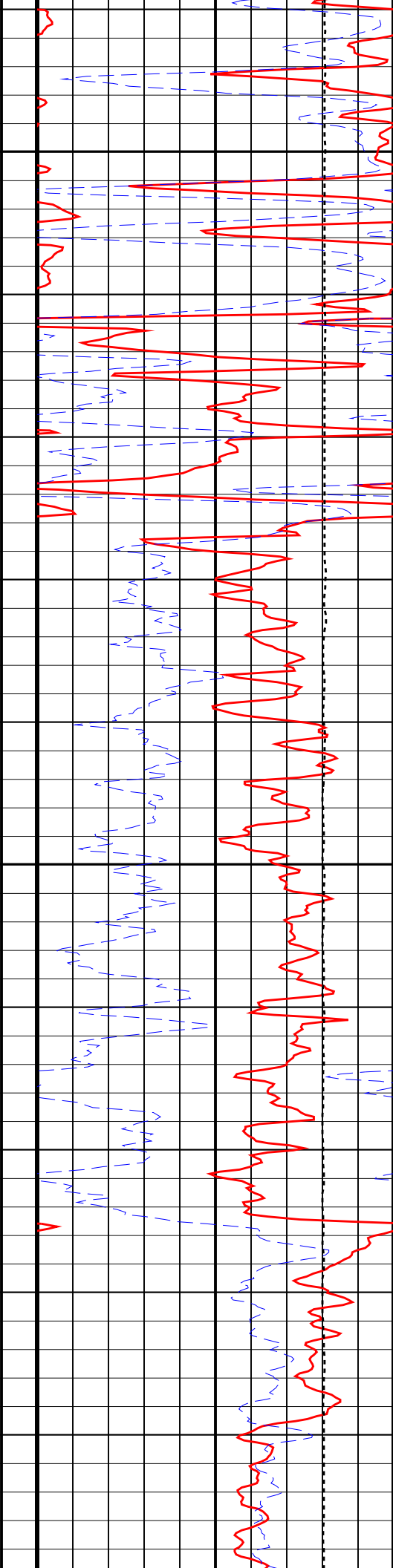
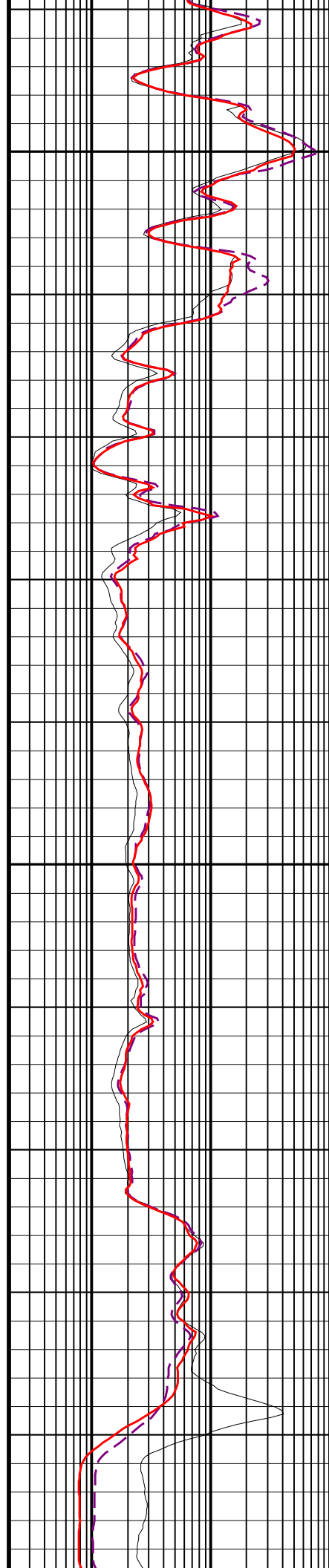


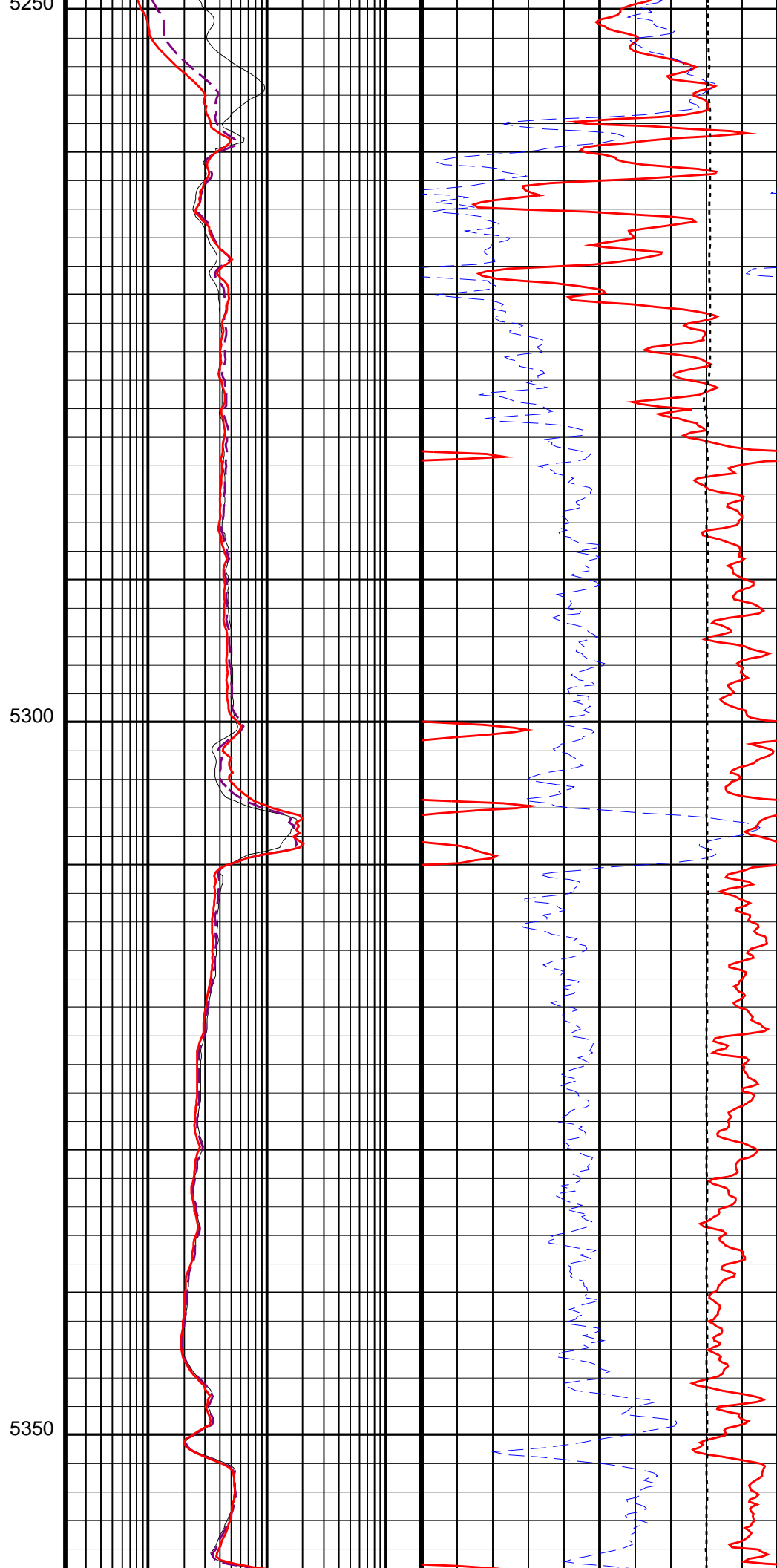
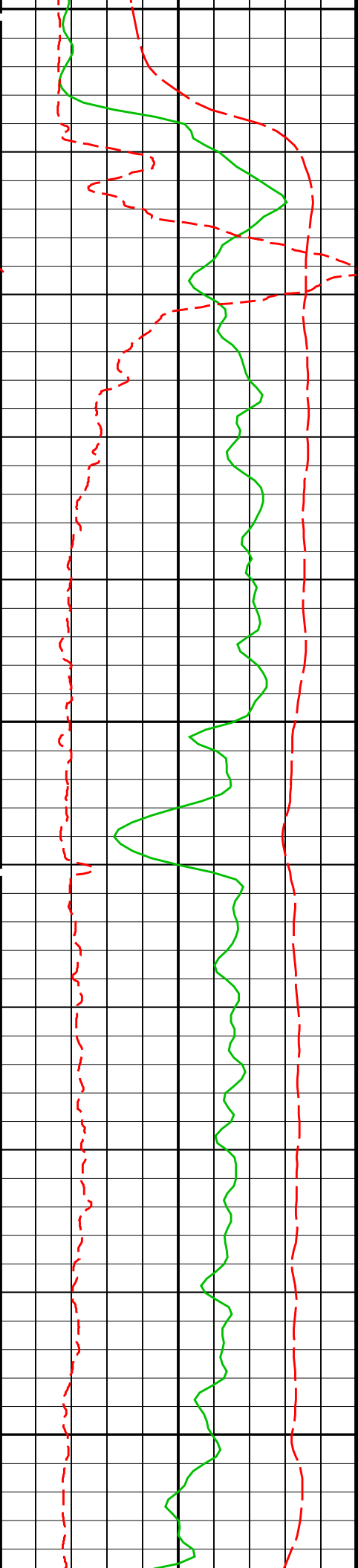


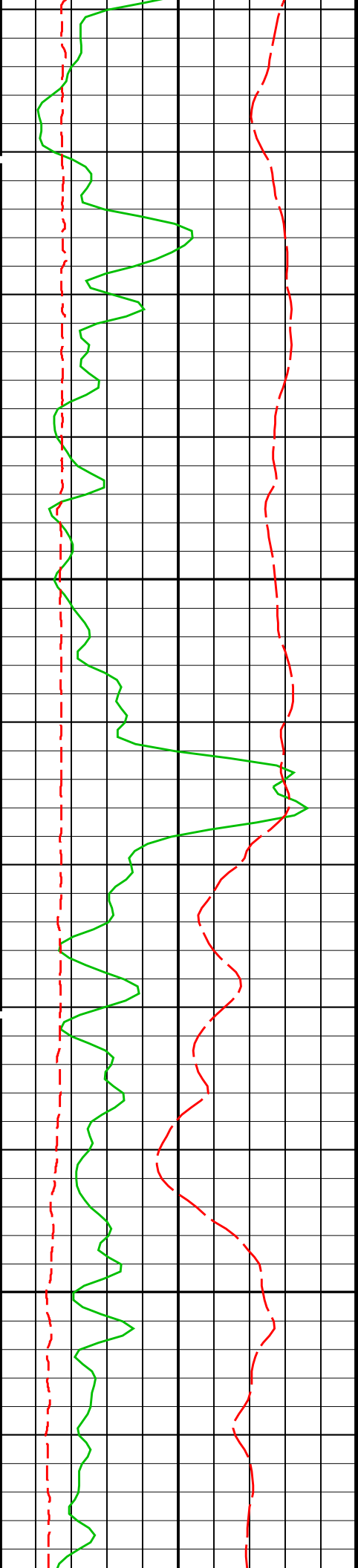
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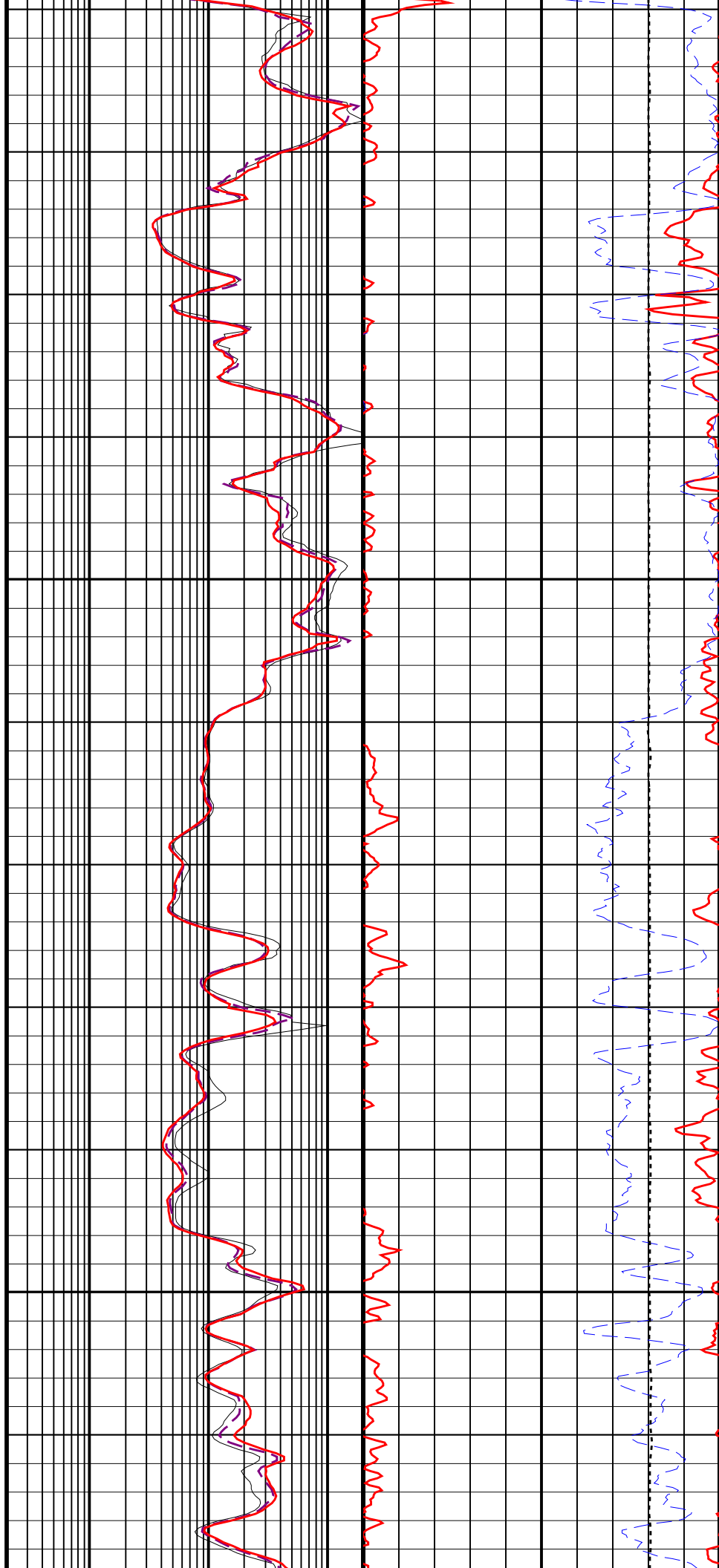


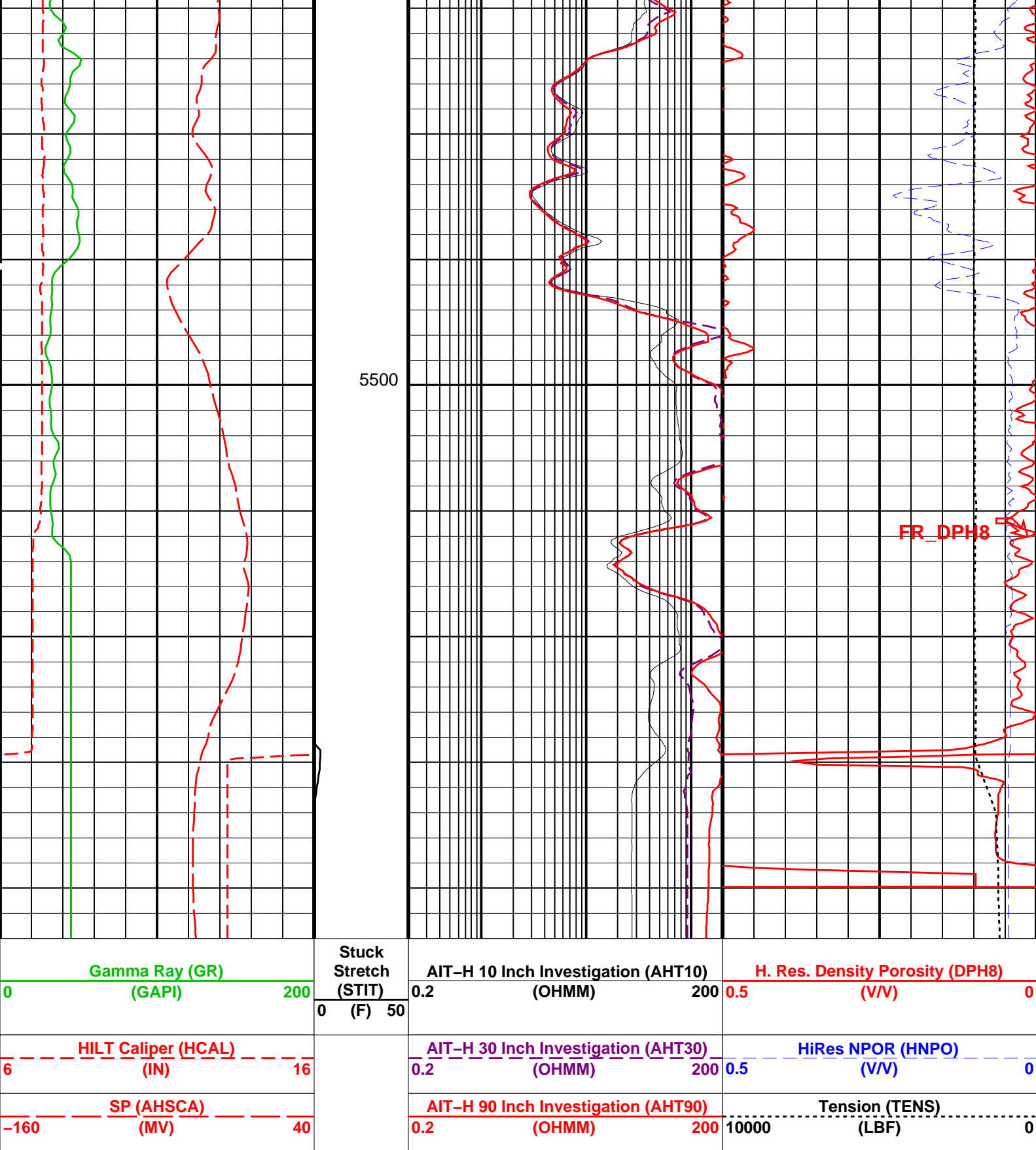




5400

5450





Time Mark Every 60 S

PIP SUMMARY

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	900
AHBLM	Array Induction Basic Logs Mode	6_ONE_TWO_AND_FOUR
AHBLV	Array Induction Basic Logs Code Version Number	223
AHSCF	Array Induction Casing Detection Enable	YES

AHCDE	Array Induction Casing Detection Enable	ECCENTERED	
AHCEN	Array Induction Tool Centering Flag (in Borehole)	41.70.24.20	
AHFRSV	Array Induction Response Set Version for Four ft Resolution	1.000	
AHMRF	Array Induction Mud Resistivity Factor	701	
AHORSV	Array Induction Response Set Version for One ft Resolution	232	
AHRFV	Array Induction Radial Profiling Code Version Number	0_NOSUSPENSION	
AHRPV	Array Induction Radial Parametrization Code Version Number	0.125	in
AHSAP	Array Induction Suspend Answer Product Processing	41.70.24.20	
AHSTA	Array Induction Tool Standoff	WATER	
AHTRSV	Array Induction Response Set Version for Two ft Resolution	WATER	
BHFL	Borehole Fluid Type	OPEN	
BHFL_TLD	HILT Nuclear Mud Base	180.6	degF
BHS	Borehole Status	NO	
BHT	Bottom Hole Temperature (used in calculations)	NO	
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	BS	
DHC	Density Hole Correction	1.000	g/cm3
FD	Fluid Density	2.000	
FEXP	Form Factor Exponent	1.000	
FNUM	Form Factor Numerator	NO	
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	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
GRSE	Generalized Mud Resistivity Selection	AHMF	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
HSCO	Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MDEN	Matrix Density	2.710	g/cm3
MWCO	Mud Weight Correction Option	NO	
NAAC	HRDD APS Activation Correction	OFF	
NMT	HILT Nuclear Mud Type	NOBARITE	
NPRM	HRDD Processing Mode	HIRES	
NSAR	HRDD Depth Sampling Rate	1.000	in
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	68.000	degF
SOCN	Standoff Distance	0.125	in
SOCO	Standoff Correction Option	YES	
STI: Stuck Tool Indicator			
STKT	STI Stuck Threshold	2.500	ft
TDD	Total Depth – Driller	5536.0	ft
TDL	Total Depth – Logger	5530.0	ft
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	180.6	degF
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
GRSE	Generalized Mud Resistivity Selection	AHMF	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	68.000	degF
FEQL: Formation Evaluation Quick Look			
FEXP	Form Factor Exponent	2.000	
FNUM	Form Factor Numerator	1.000	
PERT: Preliminary Evaluation – Real Time			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	180.6	degF
FEXP	Form Factor Exponent	2.000	
FNUM	Form Factor Numerator	1.000	
GCSE	Generalized Caliper Selection	HCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0.000	deg
GGRD	Geothermal Gradient	0.010	degF/ft
GRSE	Generalized Mud Resistivity Selection	AHMF	
GTSE	Generalized Temperature Selection	HSTS_HTEM	
MATR	Rock Matrix for Neutron Porosity Corrections	LIME	
SHT	Surface Hole Temperature	68.000	degF
System and Miscellaneous			
BS	Bit Size	7.875	in
BSAL	Borehole Salinity		
CSIZ	Current Casing Size	8.625	in
CWEI	Casing Weight	24.000	lbm/ft
DFD	Drilling Fluid Density	9.200	lbm/gal
FLEV	Fluid Level		
FSAL	Formation Salinity		
MST	Mud Sample Temperature	80.125	degF
RMFS	Resistivity of Mud Filtrate Sample	0.766	ohm.m
TD	Total Depth	5530.0	ft

HILTC 18C0-147

Input DLIS Files

DEFAULT AIT\_TLD\_MCFL\_CNL\_010LUP FN:9 PRODUCER 08-Jan-2011 01:20 5544.0 FT 368.5 FT

Company: Vecta Oil & Gas LTD

**Schlumberger**

Well: Torreys 44-33

Field: Wildcat

County: Cheyenne

State: Colorado

Platform Express

Triple Combo