

Company: CONOCOPHILLIPS CANADA RESOURCES CORP.

Well: COPRC DODO CANYON E76

Field: DODO CANYON

Province: NORTHWEST TERRITORIES

BOREHOLE COMPENSATED \*\*\*TVD\*\*\*

SONIC LOG \*\*\*Calgary Processed Data\*\*\*

Province: NORTHWEST TERRITORIES  
Field: DODO CANYON  
Location: UNIT E SECTION 76  
Well: COPRC DODO CANYON E76  
Company: CONOCOPHILLIPS CANADA RESOURCES CO

Location:		Elev.:		K.B.		273.40 m	
UNIT E SECTION 76		300E766510126450		NORTHING: 7219874.66		EASTING: 594010.01	
Permanent Datum:		Ground Level		Elev.:		268.20	
Log Measured From:		Kelly Bushing		5.20 m		above Perm.Datum	
Drilling Measured From:		Kelly Bushing					
API Serial No.		Longitude:		Latitude:			
EL470		126° 59' 58" W		65° 5' 27" N			

Logging Date	14-Jan-2014	***TVD***	
Run Number	1.1		
Depth Driller	1908.00 m	1776.25 m	
Schlumberger Depth	1819.10 m	1761.52 m	
Bottom Log Interval	1804.64 m	1747.06 m	
Top Log Interval	603.00 m	603 m	
Casing Driller Size @ Depth	244.5 mm @ 603.00 m		
Casing Schlumberger	603 m		
Bit Size	222 mm		
Type Fluid In Hole	INVERT		
Density	1025 kg/m3	75 s	
Fluid Loss	PH		
Source of Sample	N/A		
RM @ Meas Temp	N/A		
RMF @ Meas Temp	N/A		
RMC @ Meas Temp	N/A		
Source RMF	RMC	N/A	N/A
RM @ BHT	RMF @ BHT	N/A	N/A
Max Recorded Temperatures	71.5 degC		
Circulation Stopped	14-Jan-2014	07:20:00	
Logger on Bottom	14-Jan-2014	18:25:00	
Unit Number	3139	JEFFREY TATLOCK	GRANDE PRAIRIE
Recorded By	DAVID LAWRENCE		
Witnessed By			

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 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.


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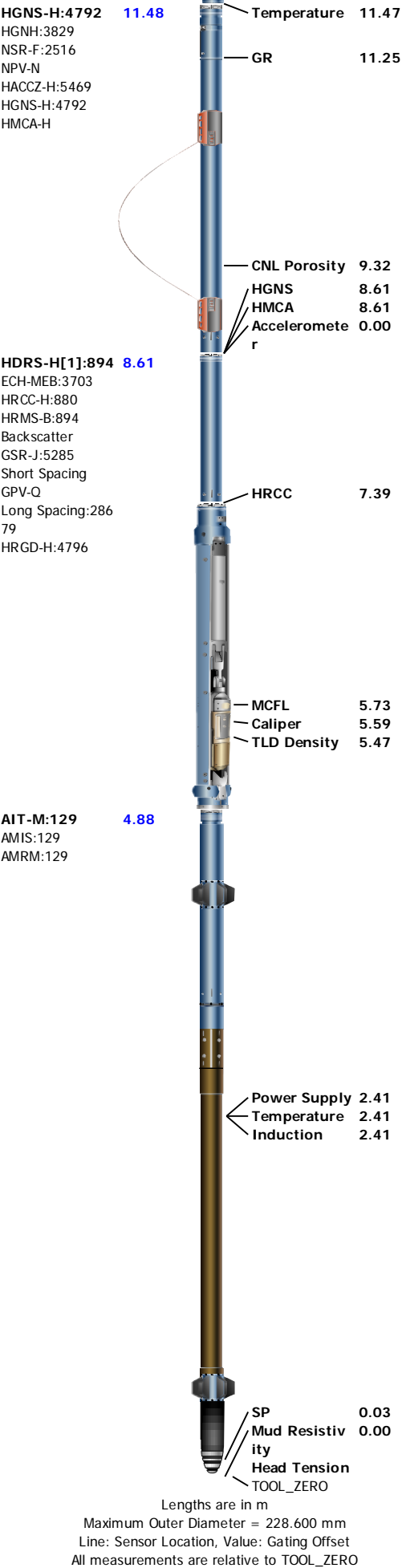
## Borehole Fluids

Parameter( unit )	1.1					
Fluid Type	Oil					
Fluid Name	INVERT					
Max Recorded Temperatures ( degC )	71.5					
Source of Sample	N/A					
Salinity ( ppm )	0					
Density ( kg/m3 )	1025					
Funnel Viscosity ( s )	75					
Fluid Loss ( cm3 )						
PH						
Date/Time Circulation Stopped	14-Jan-2014 07:20:00					
Date Logger on Bottom	14-Jan-2014					
Time Logger on Bottom	18:25:00					
Source RMF	N/A					
RMC	N/A					
RM @ Meas Temp ( ohm.m@degC )	N/A					
RMF @ Meas Temp ( ohm.m@degC )	N/A					
RMC @ Meas Temp ( ohm.m@degC )	N/A					
RM @ BHT ( ohm.m@degC )	N/A					
RMF @ BHT ( ohm.m@degC )	N/A					
RMC @ BHT ( ohm.m@degC )	N/A					
Electricity Stability ( V )						
Oil/Water						
Total Solid ( % )						
High Gravity Solids ( % )						

## Remarks and Equipment Summary

1.1: Toolstring				1.1: Remarks
<div><div><div>Equip name LEH-QT:2850 LEH-QT:2850</div><div>DTC-H:9100 ECH-KC:10172 DTC-H:9100</div><div>SGT-N:10447 SGH-K:3210 SGC-TB:10447 SGD-TAA</div></div><div><div>Length 28.03</div><div>27.14</div><div>26.22</div></div><div></div><div><div>MP name</div><div>CTEM HV</div><div>ToolStatus TelStatus</div><div>GR</div></div><div><div>Offset</div><div>26.86 0.00</div><div>26.22 26.22</div><div>25.94</div></div></div>	ALL INTERVALS AND PRESENTATIONS AS PER CLIENT REQUEST			
	RIG: BEAVER 2			
	SLB CREW: JASON LEGASSIE			
	LOGGER REQUESTED AT: 10:30 14-JAN-2014			
	LOGGER ARRIVED AT: 09:30 14-JAN-2014			
	RIG READY AT: 15:45 14-JAN-2014			
	***TVD***			
	Depth Driller: xxxx m			
	2.1: Measurements			

[illegible]



## Depth Summary

1.1

Depth Measuring Device

**Depth Measuring Device**

Type	IDW-JA		
Serial Number	6162		
Calibration Date	10-MAY-2010		
Calibrator Serial Number	4		
Calibration Cable Type	7-39 PLXS		
Wheel Correction 1	-3		
Wheel Correction 2	1		

**Tension Device**

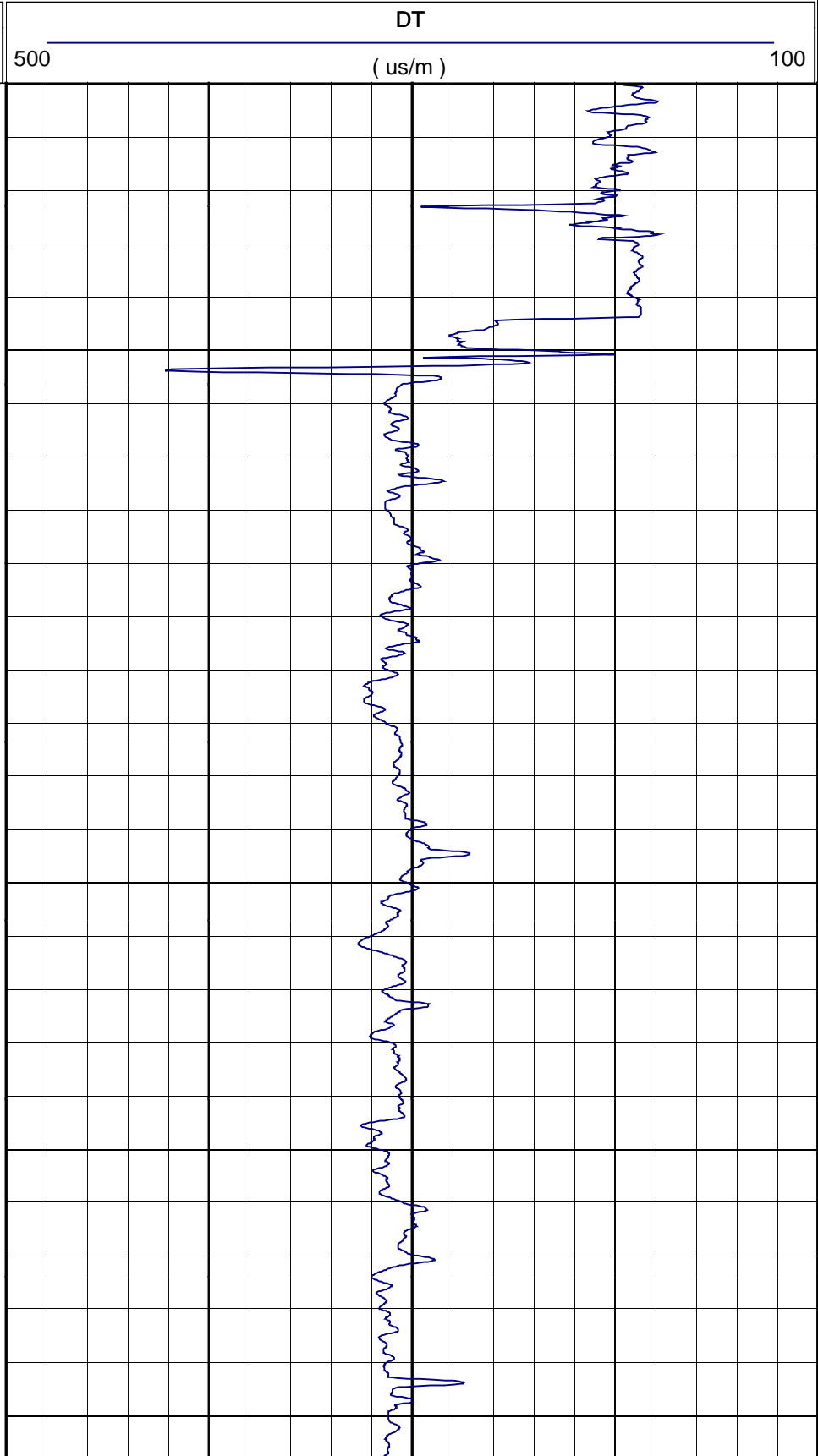
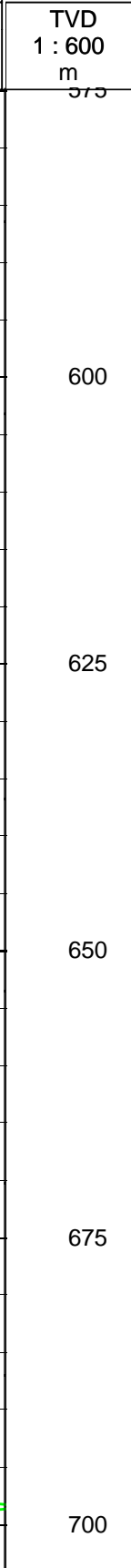
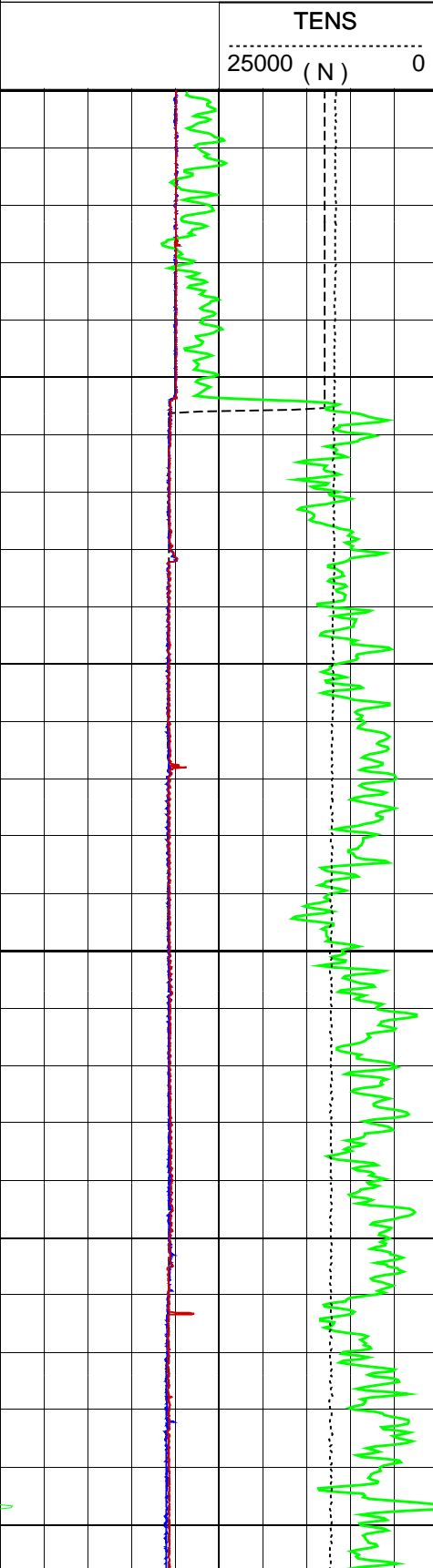
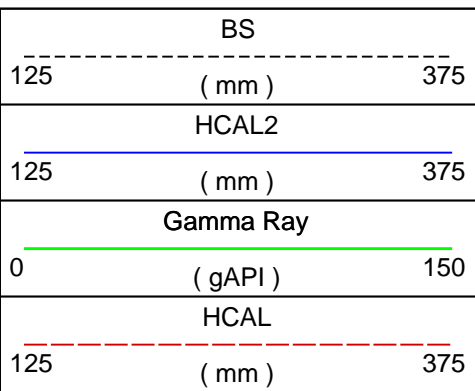
Type	CMTD-B/A		
Serial Number	1293		
Calibration Date	06-SEP-2013		
Calibrator Serial Number	1111		
Number of Calibration Points	10		
Calibration Root Mean Square Error	28		
Calibration Peak Error	54		

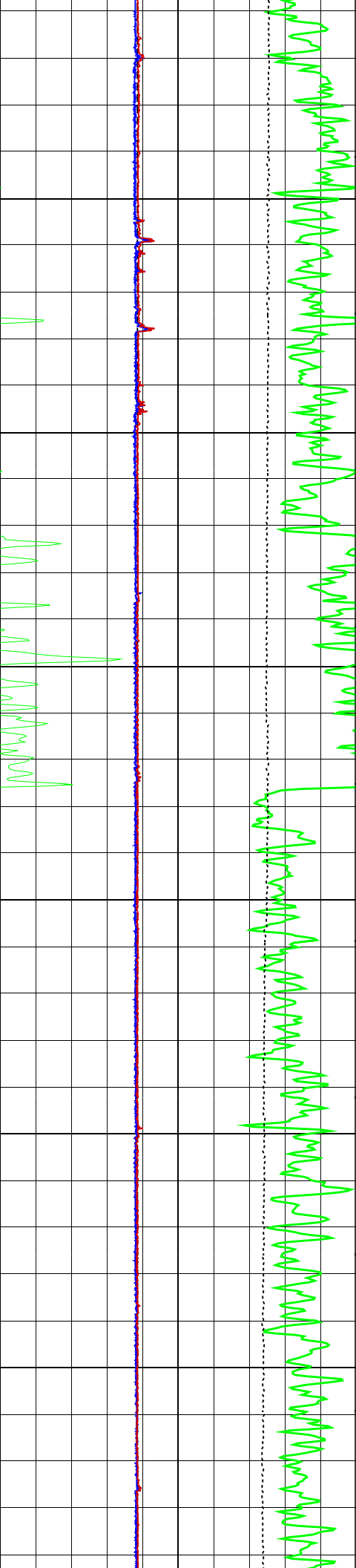
**Logging Cable**

Type	7-39P-LXS		
Serial Number			
Length	3100.00 m		
Conveyance Type	Wireline		
Rig Type			

**1.1:Depth Control Parameters**

1.1:Depth Control Parameters		Depth Control Remarks
Log Sequence	First Log In the Well	ALL SCHLUMBERGER DEPTH CONTROL PROCEDURES FOLLOWED
Rig Up Length At Surface	56.06 m	IDW USED AS PRIMARY DEPTH CONTROL
Rig Up Length At Bottom	56.02 m	Z-CHART USED AS SECONDARY DEPTH CONTROL
Rig Up Length Correction	0.04 m	ALL LOGS CORRELATED TO DOWN LOG IN VERTICAL SECTION BETWEEN 1250 - 1350 M
Stretch Correction	1.27 m	
Tool Zero Check At Surface	0.30 m	





725

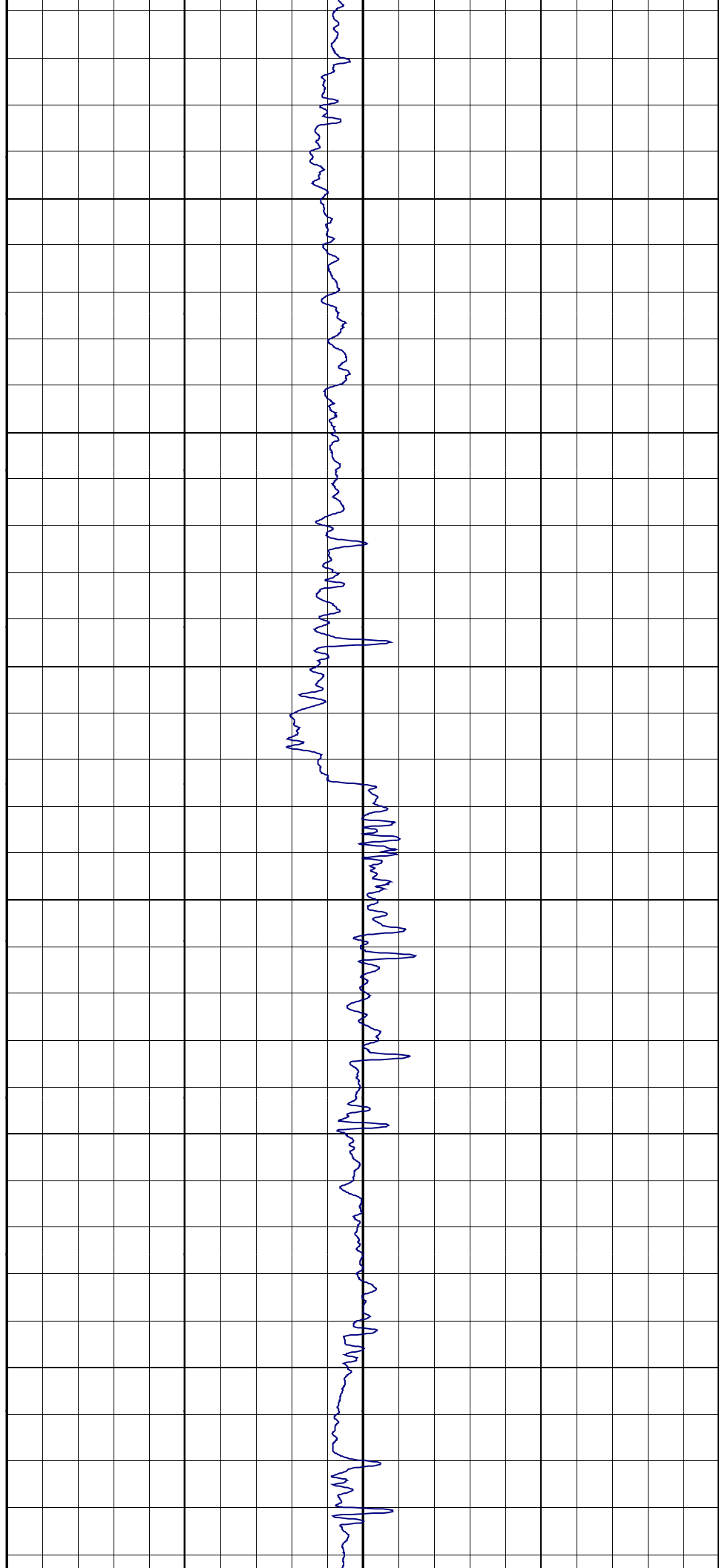
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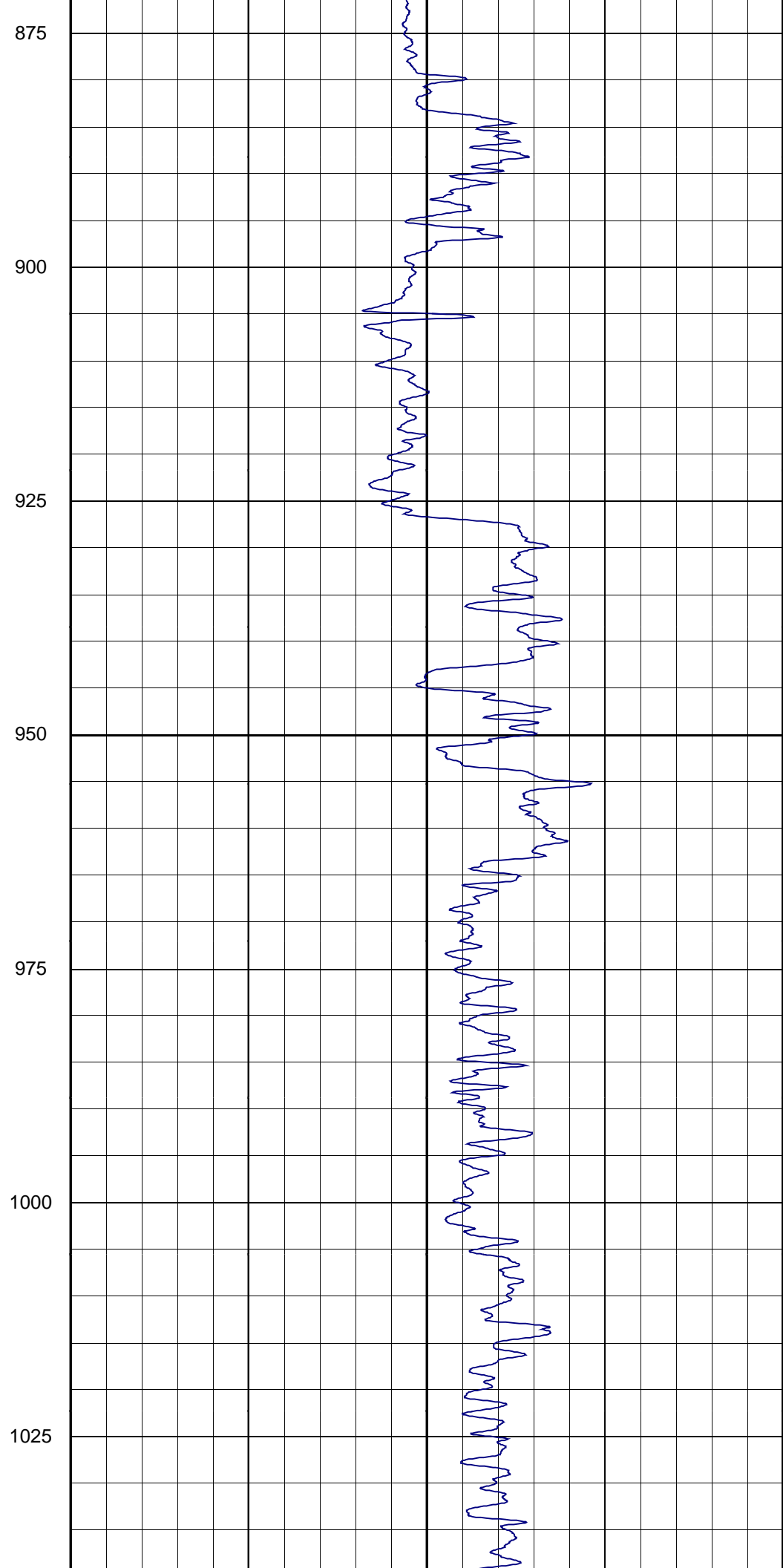
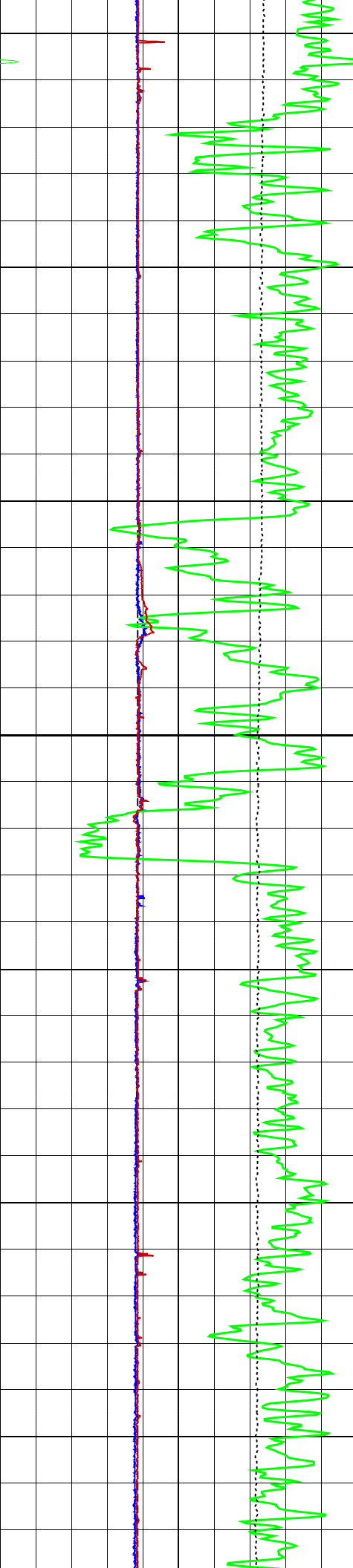
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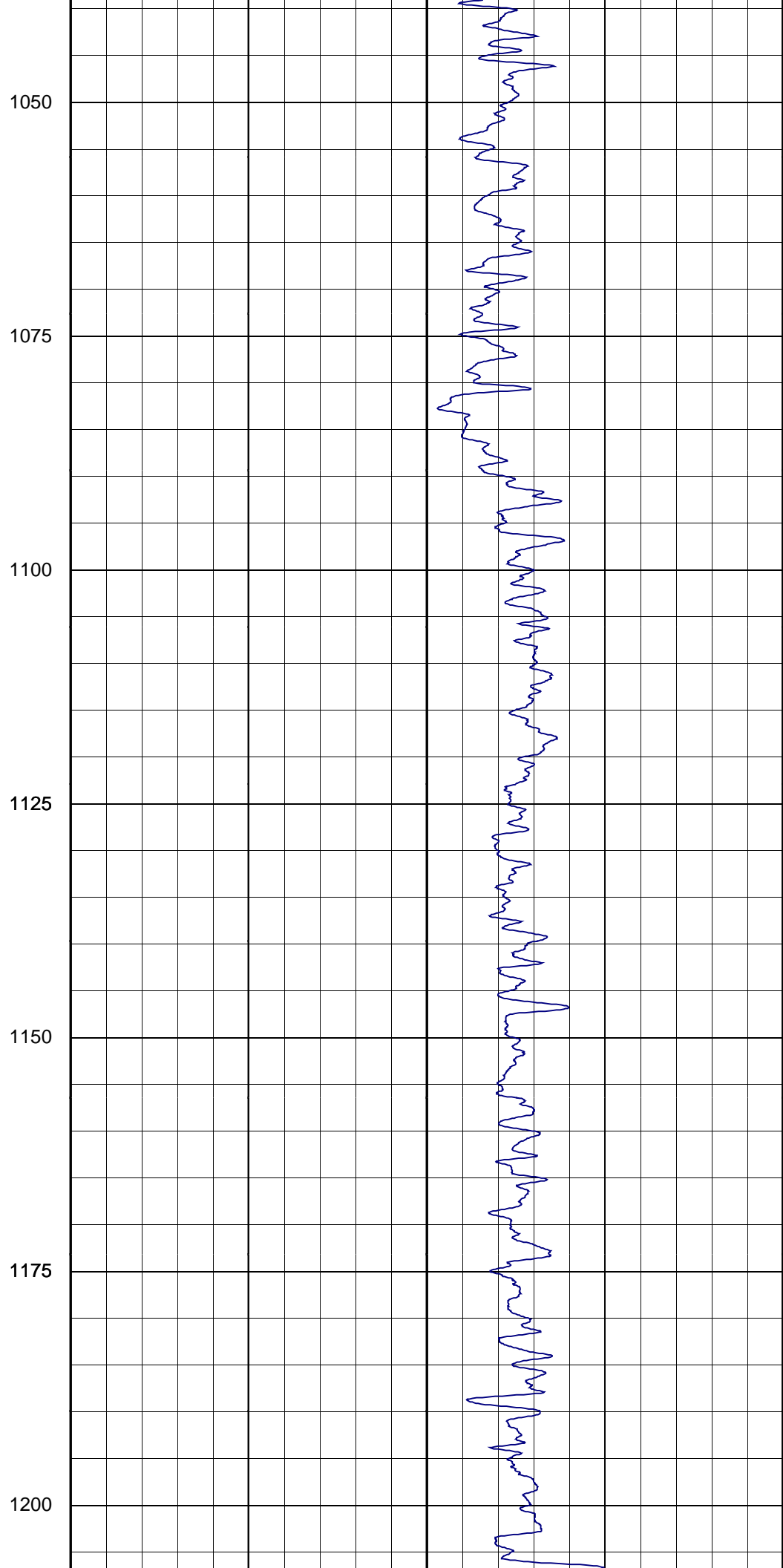
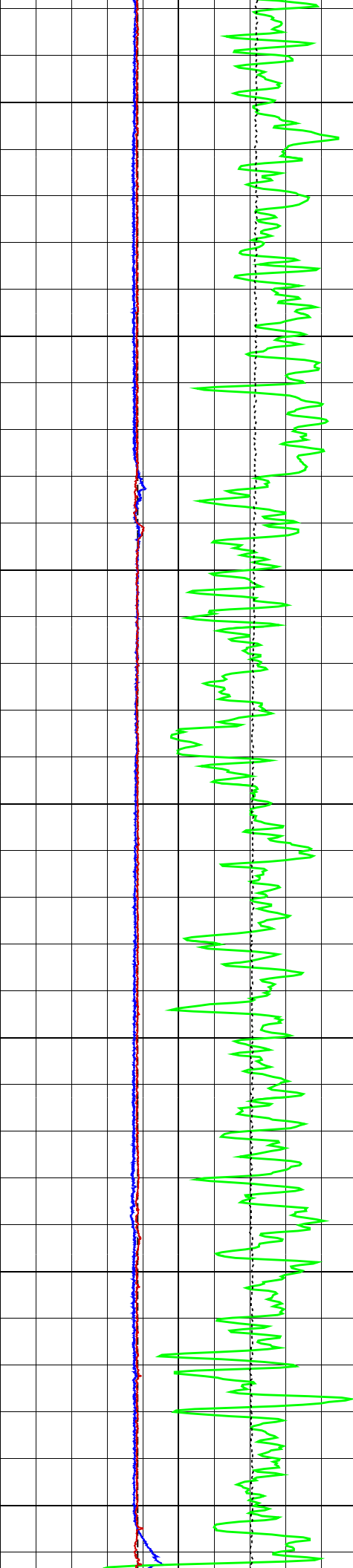
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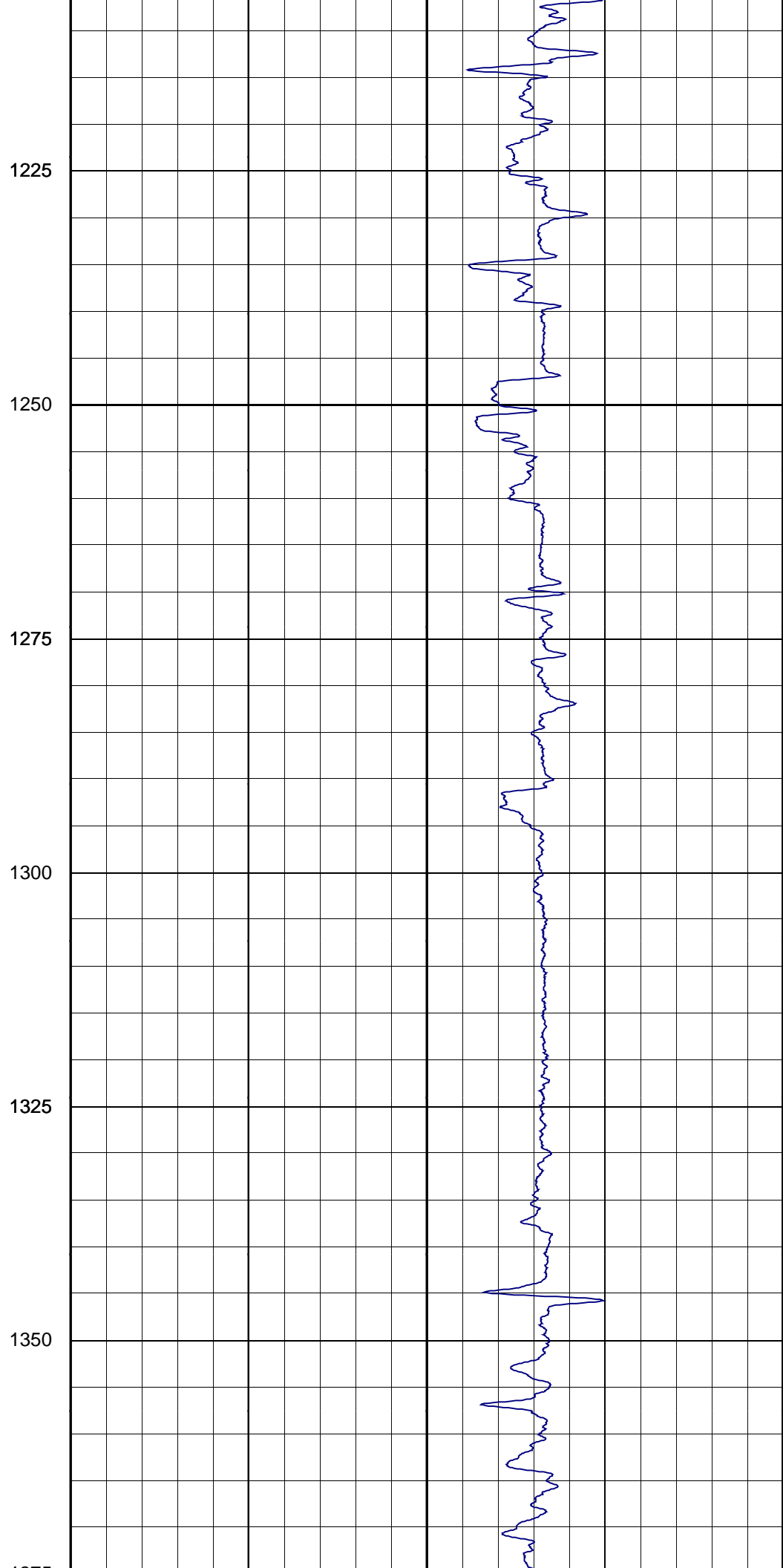
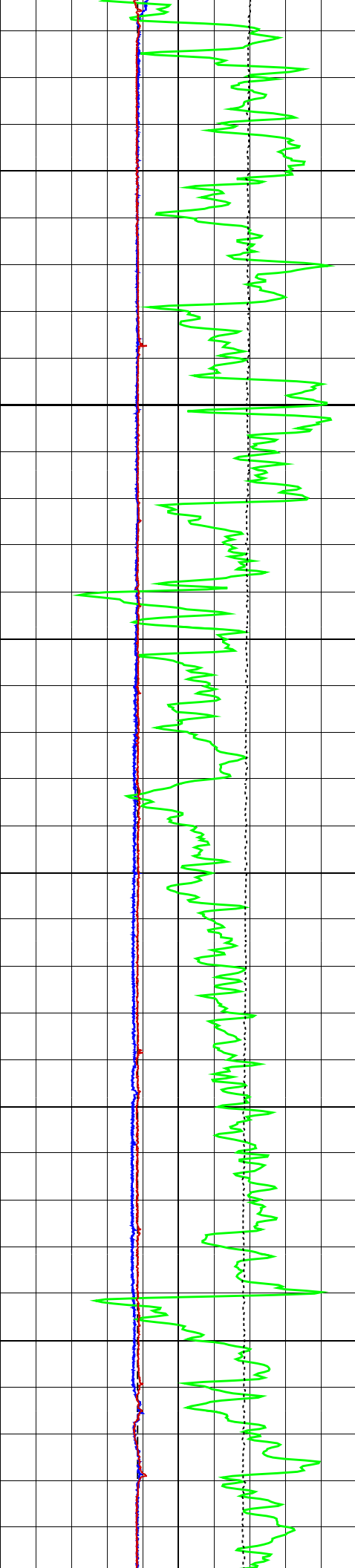
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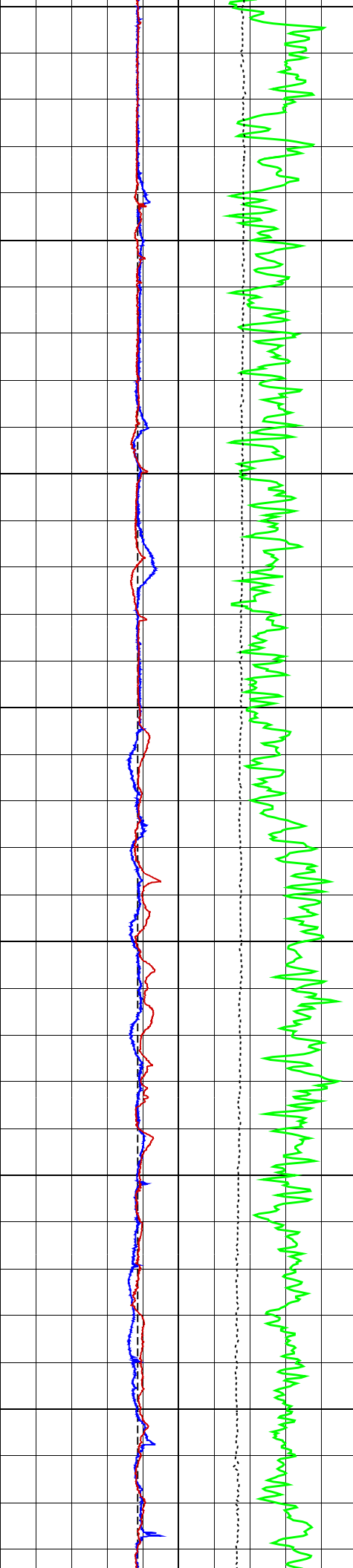












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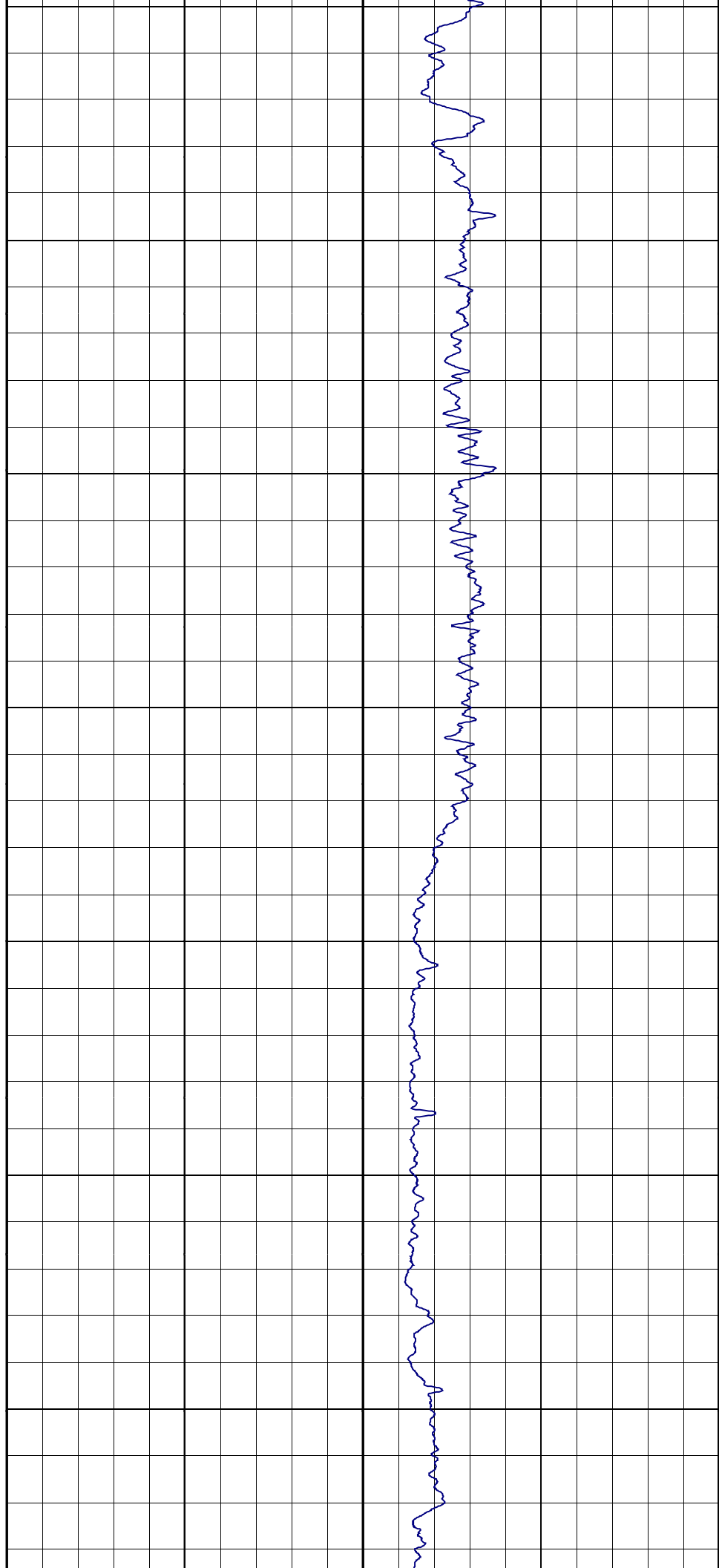
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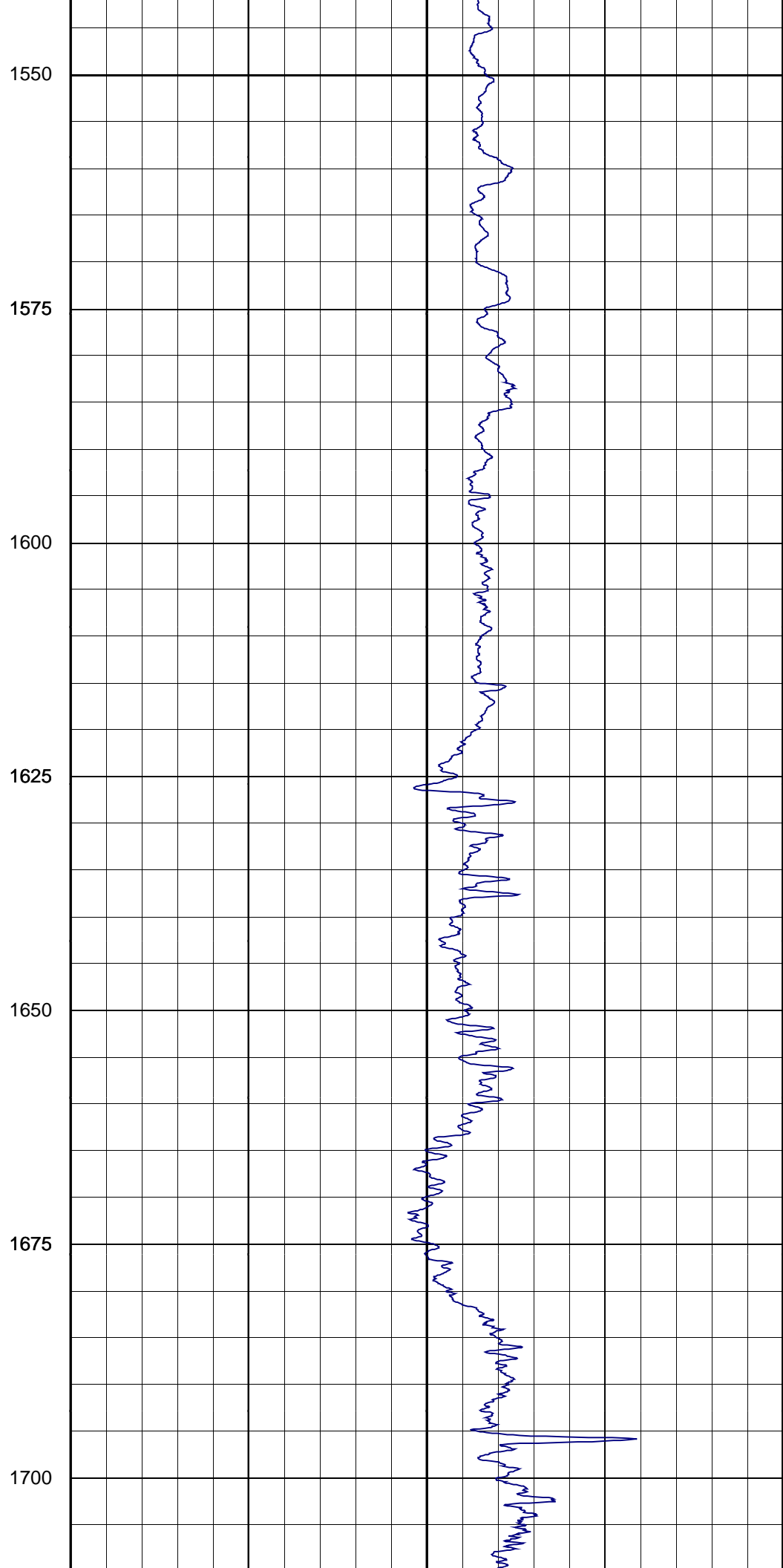
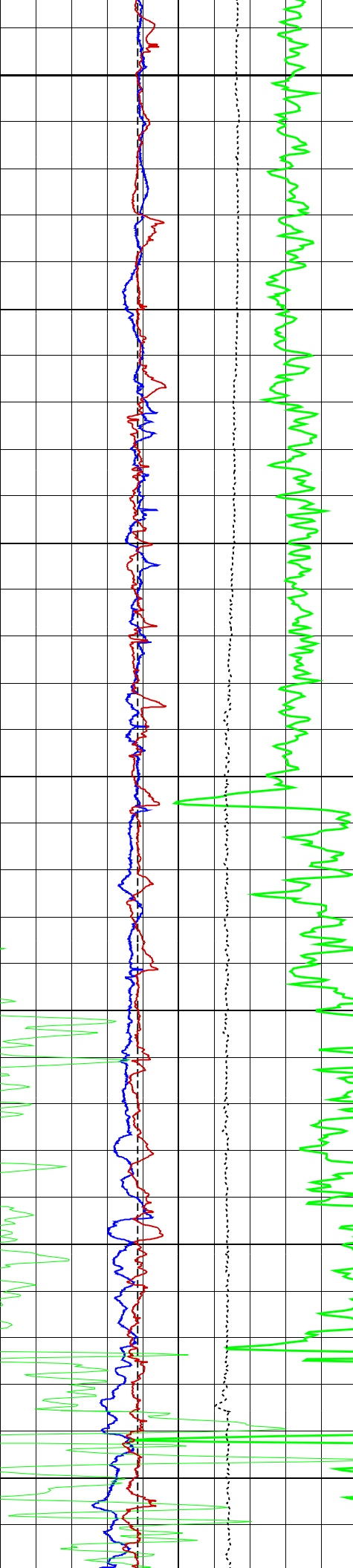
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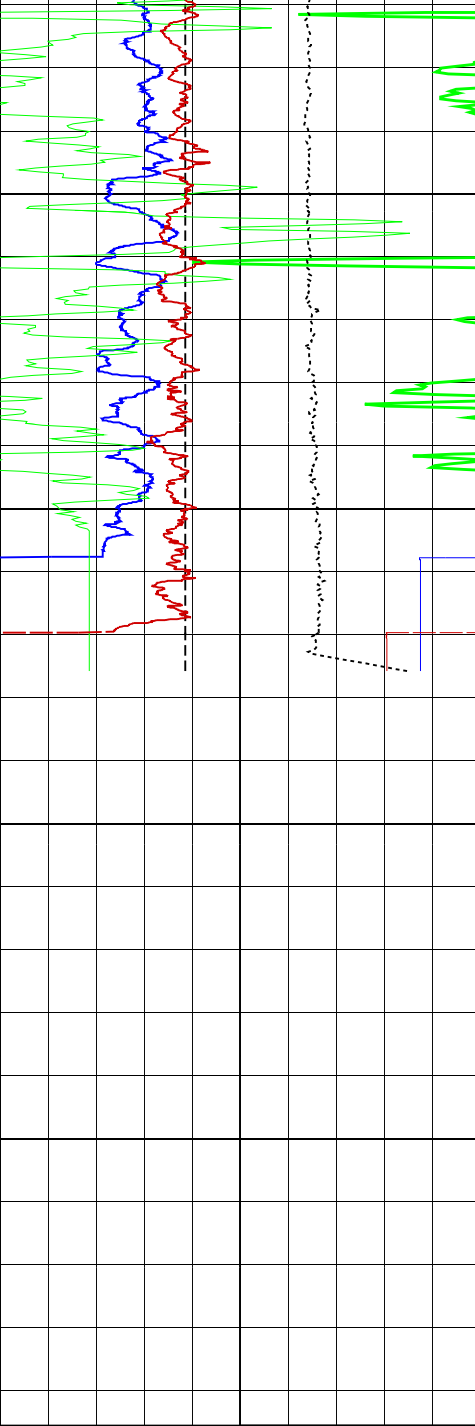
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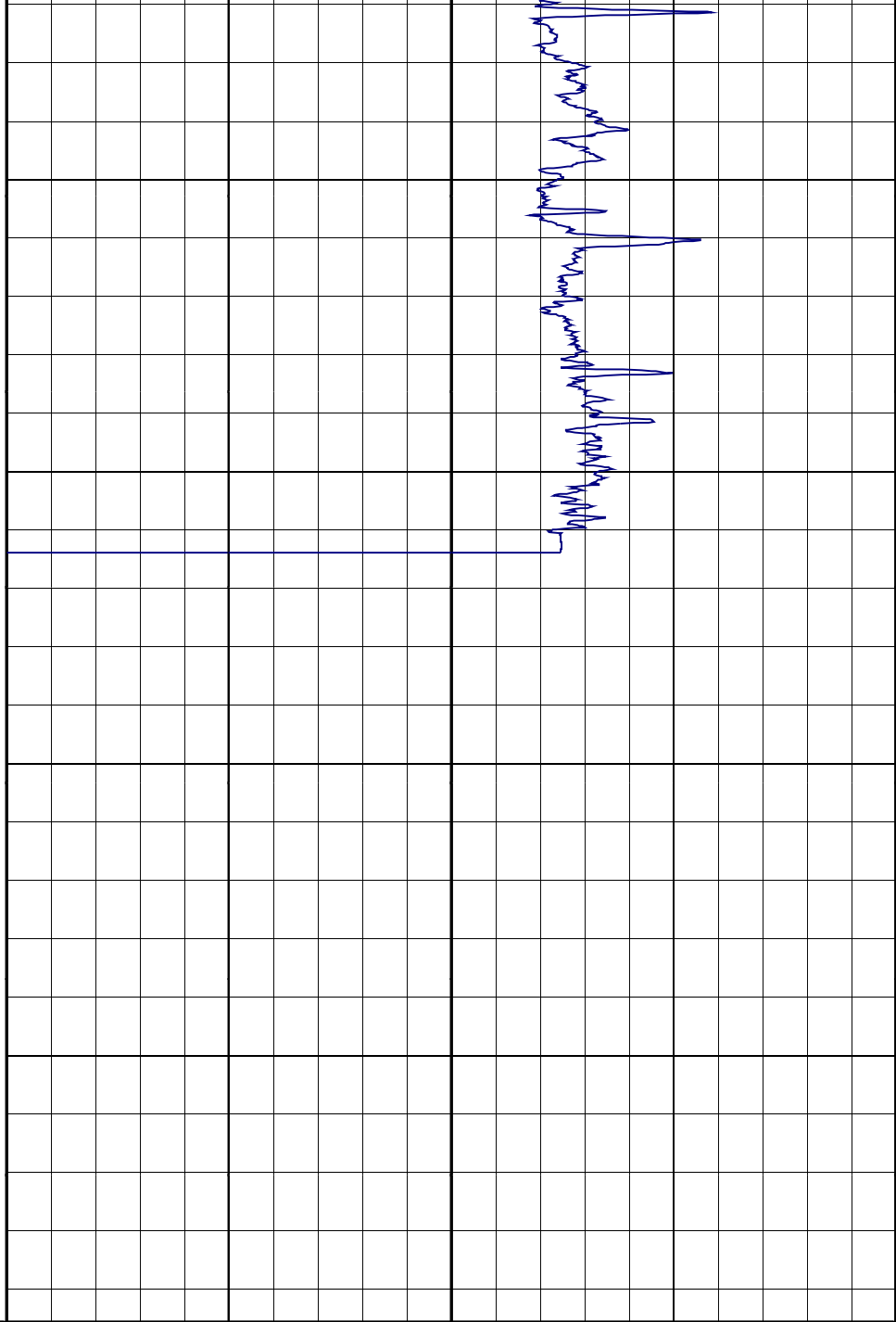


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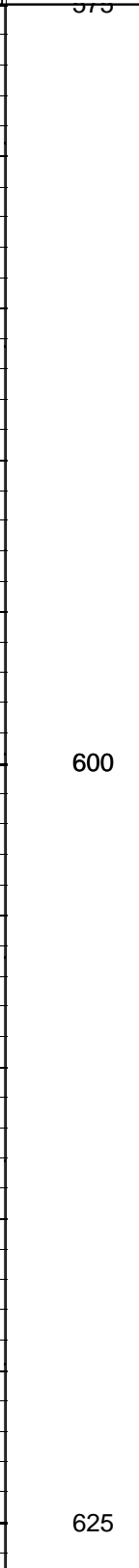
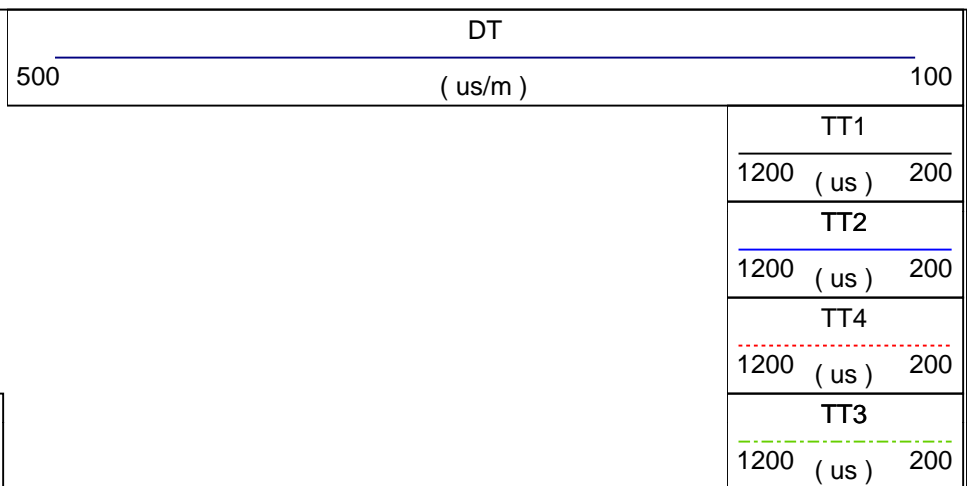
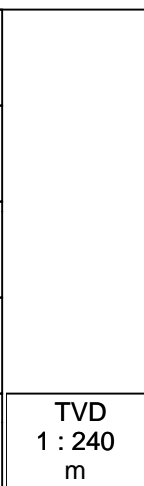
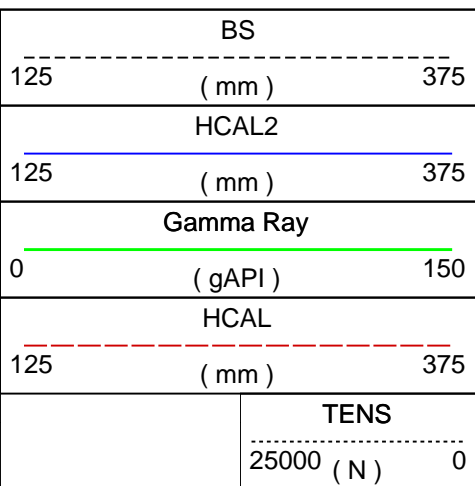
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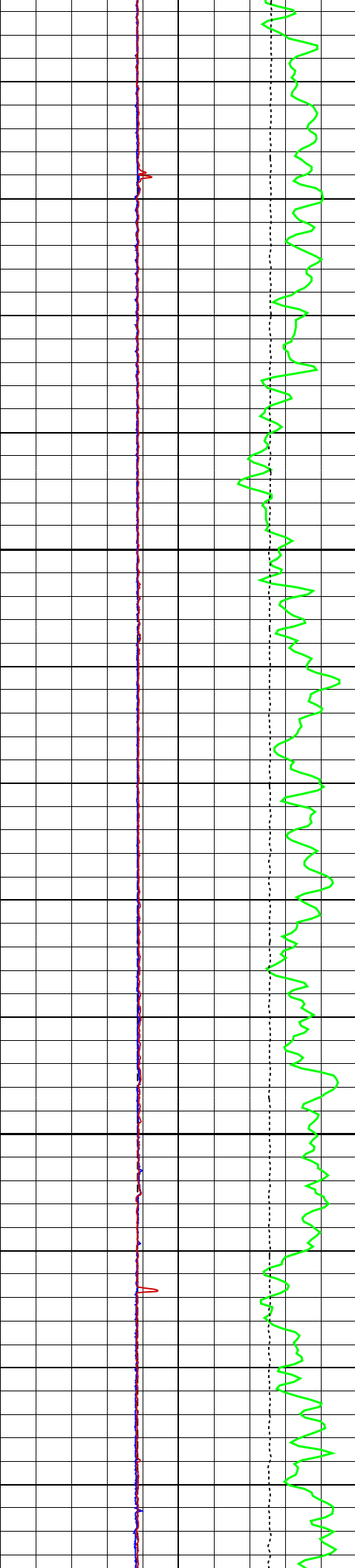
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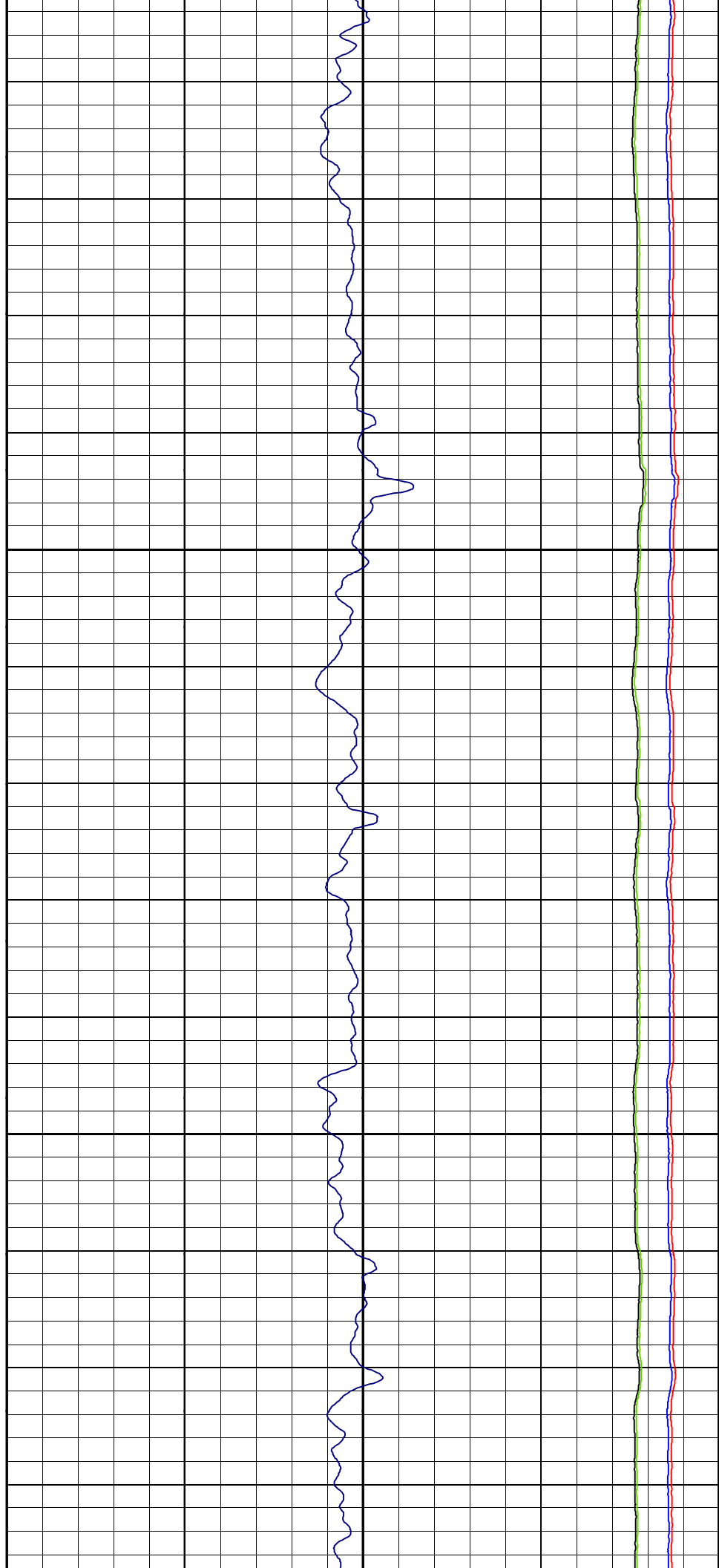
	TENS	TVD	DT
	25000 ( N ) 0	1 : 600 m	500 ( us/m ) 100
HCAL			
125 ( mm ) 375			
Gamma Ray			
0 ( gAPI ) 150			
HCAL2			
125 ( mm ) 375			
BS			
125 ( mm ) 375			

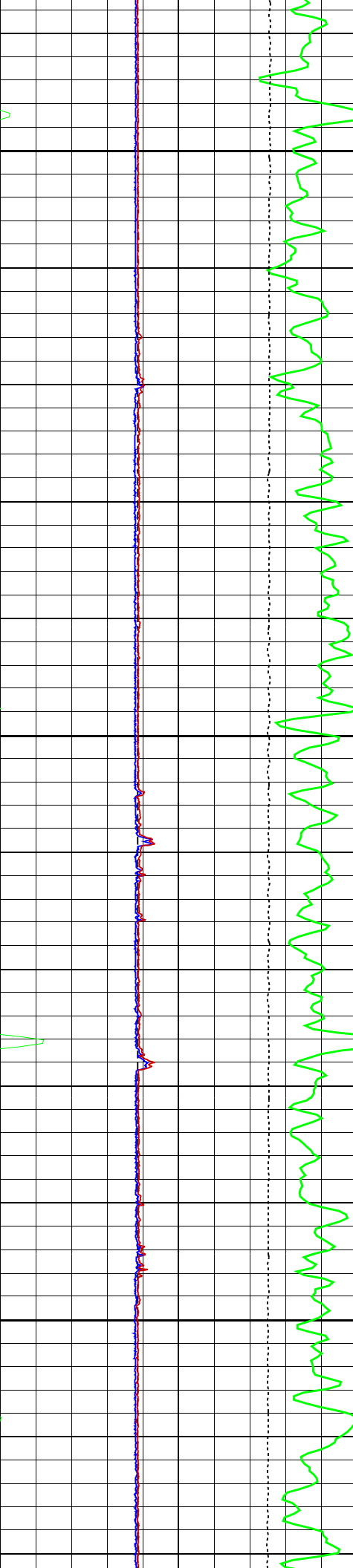




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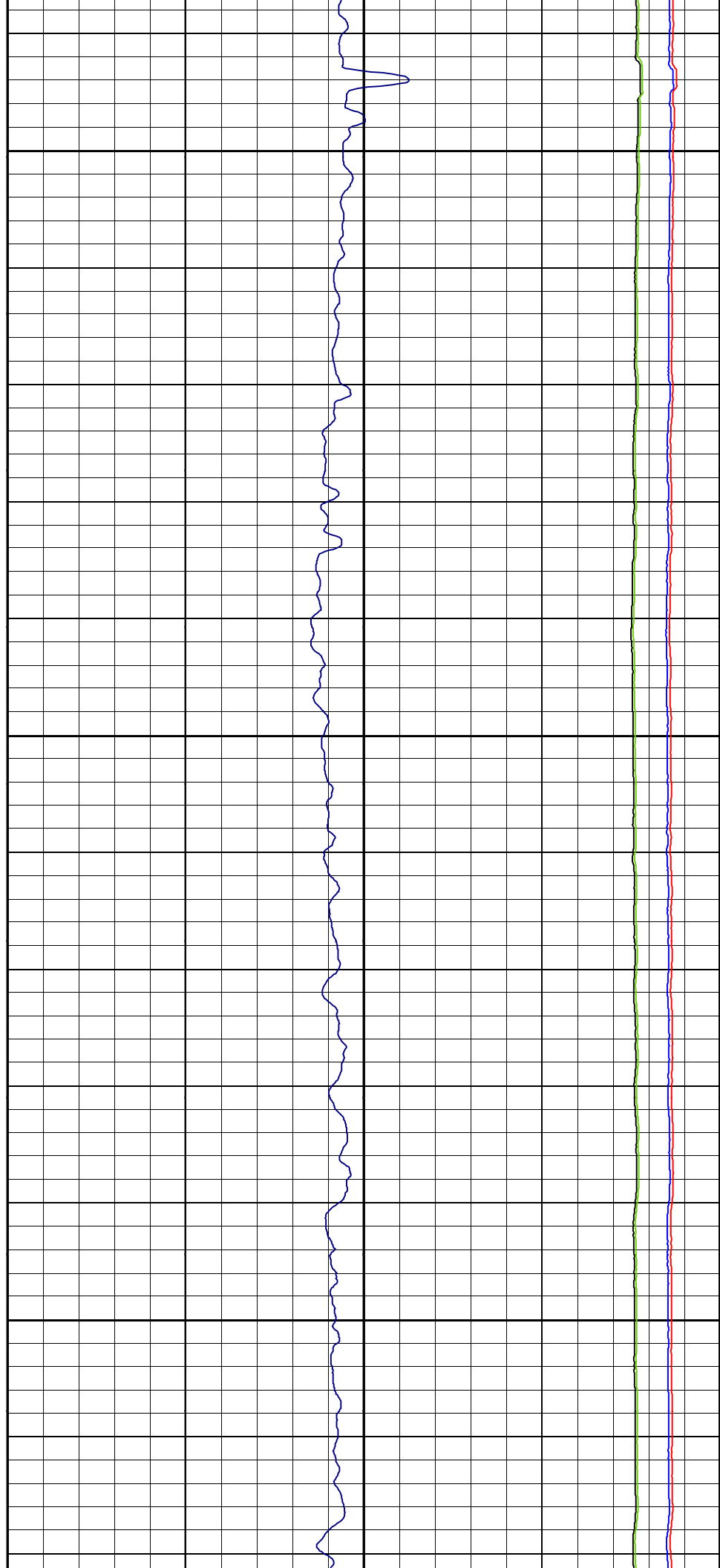




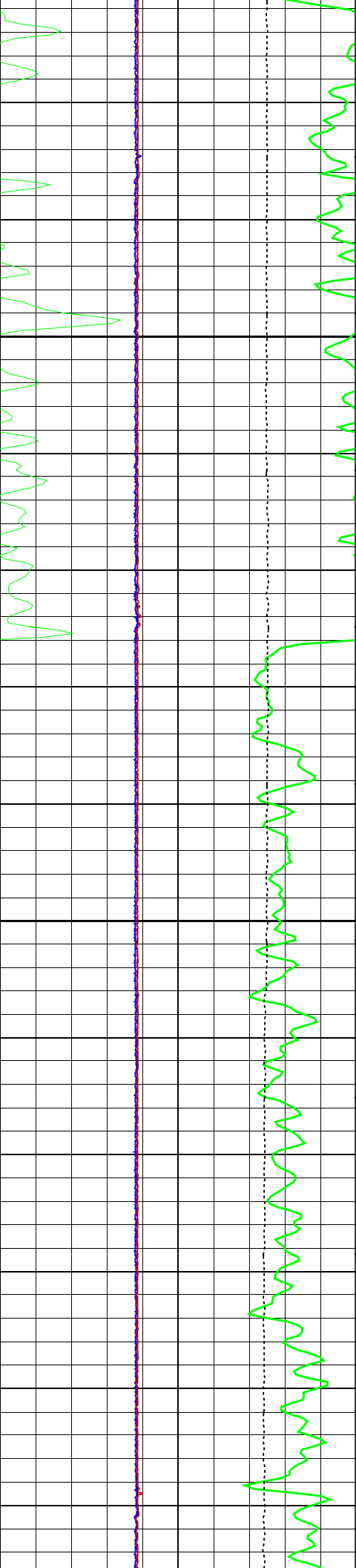
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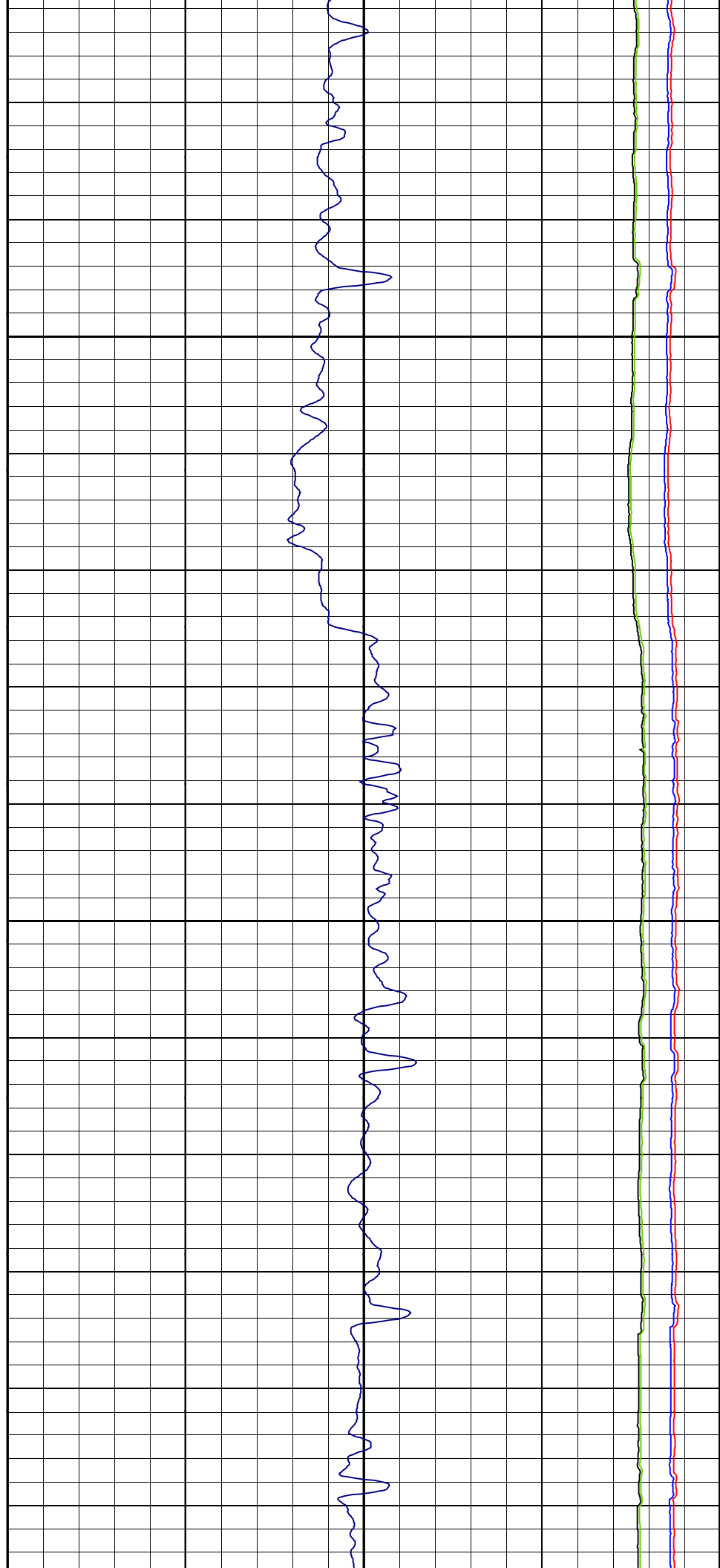


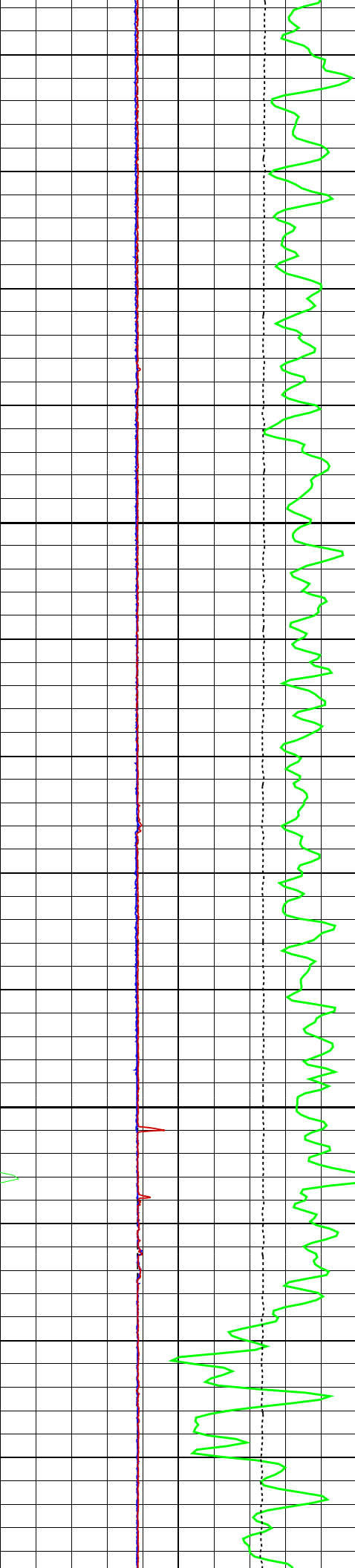


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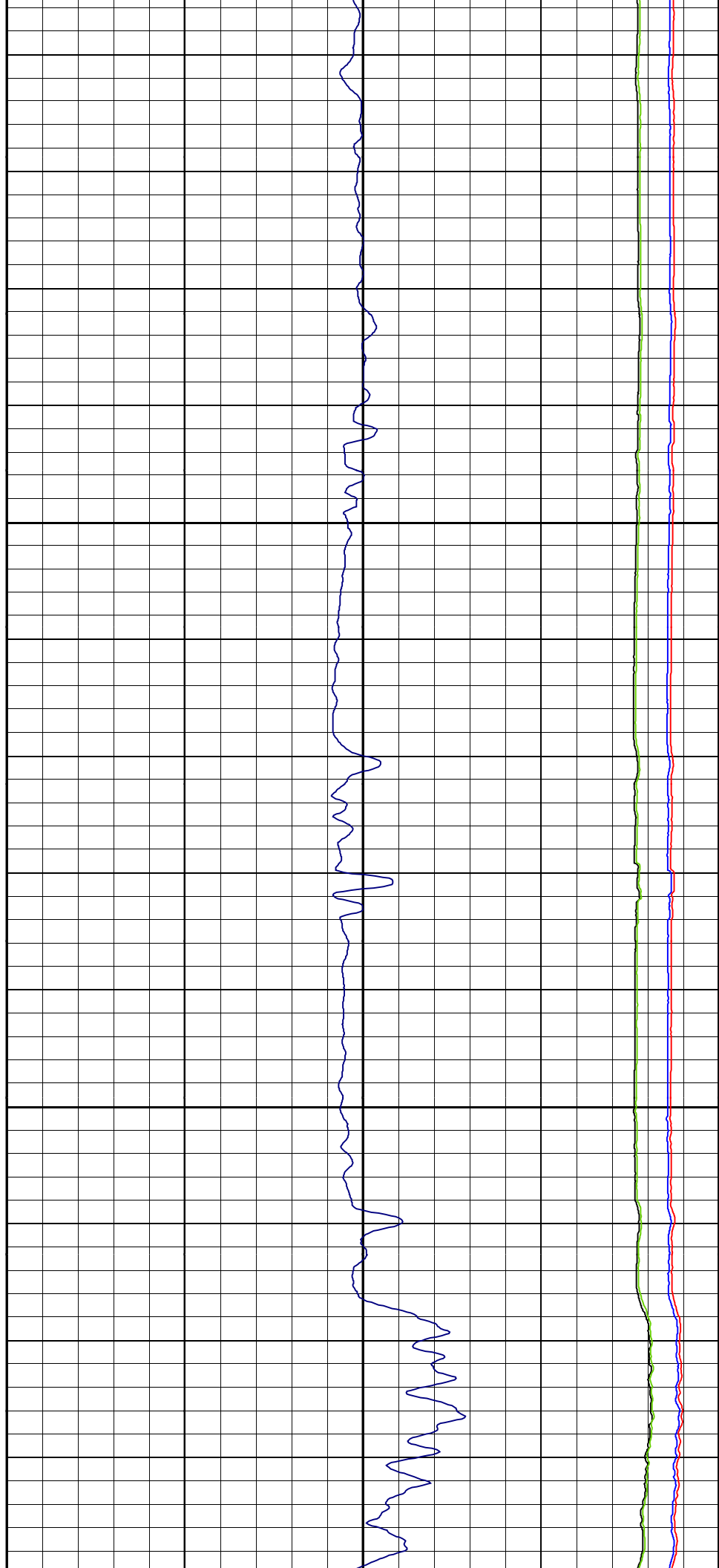
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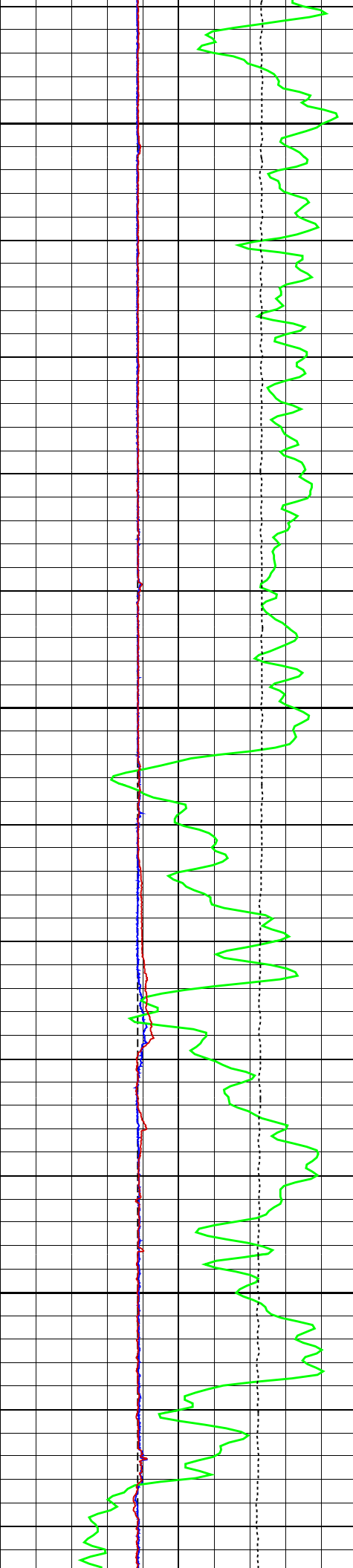




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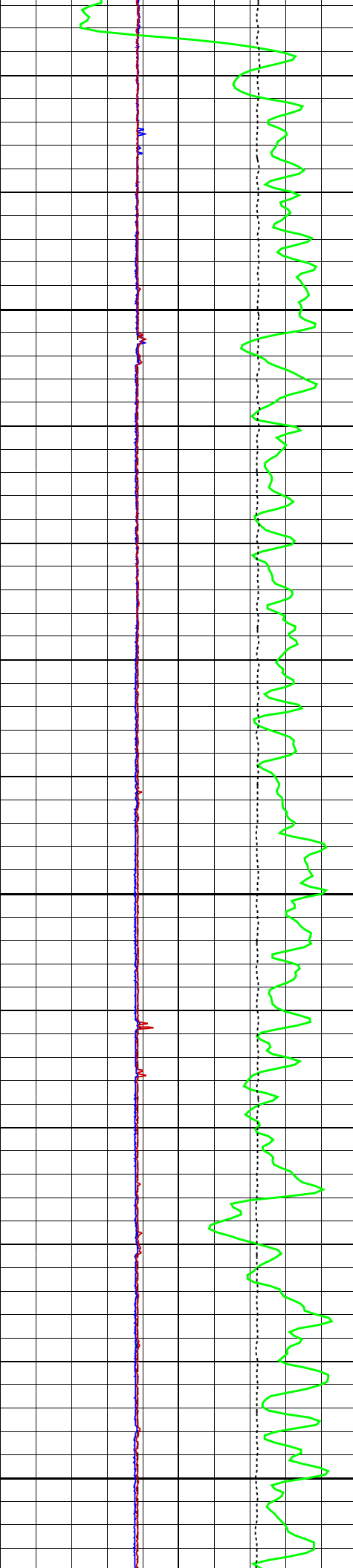


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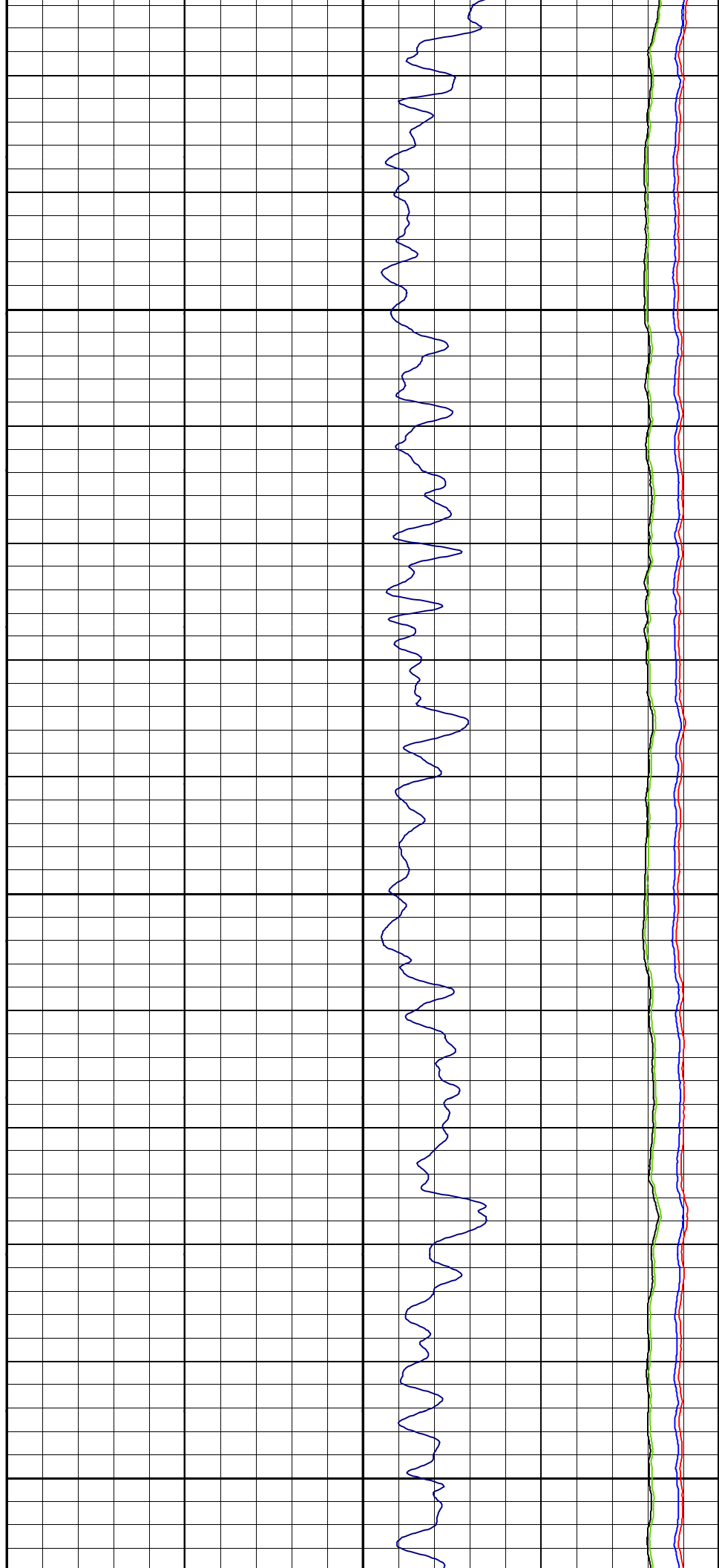


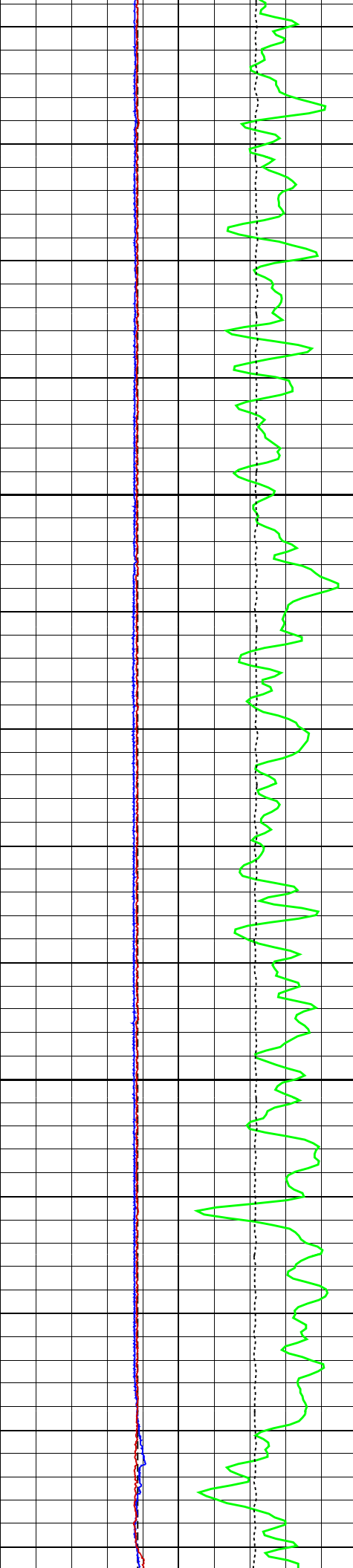


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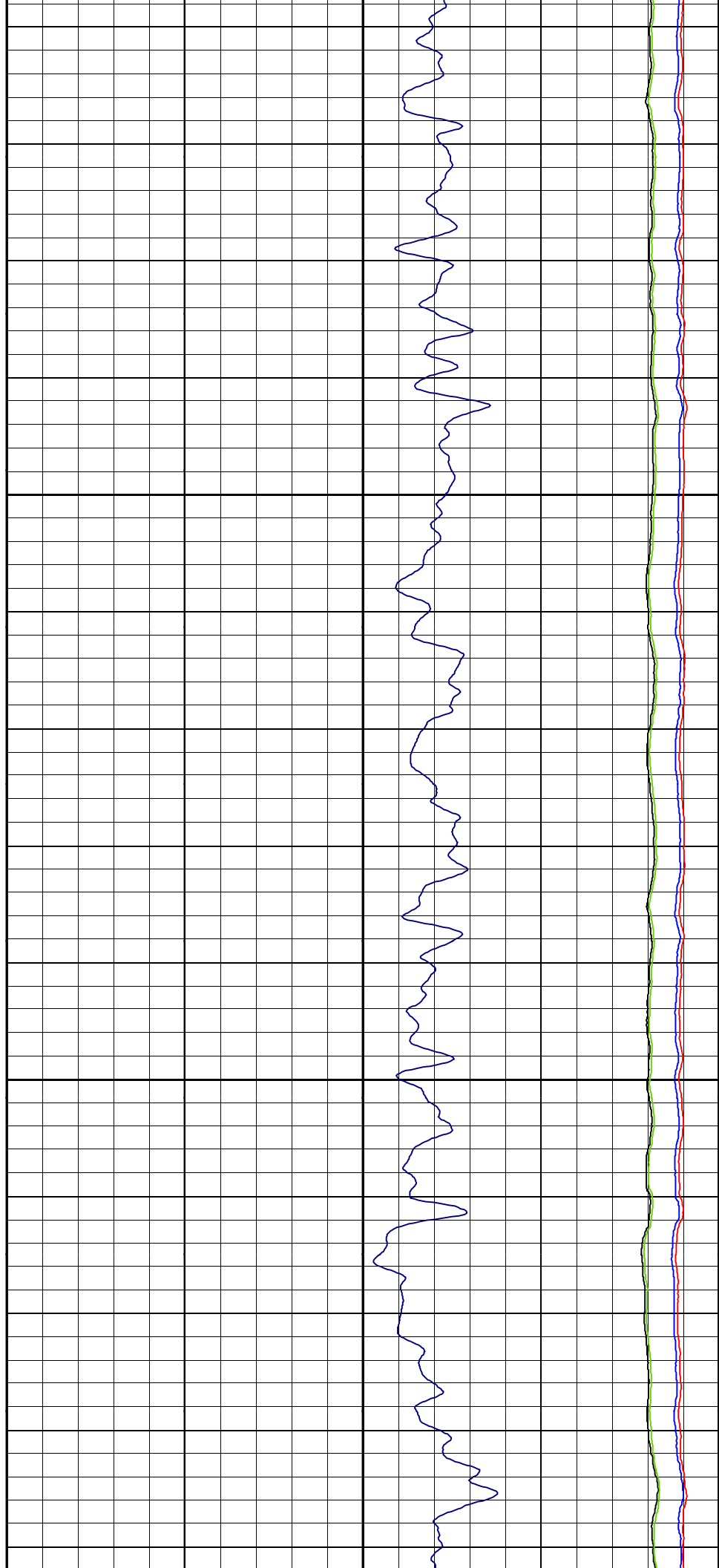
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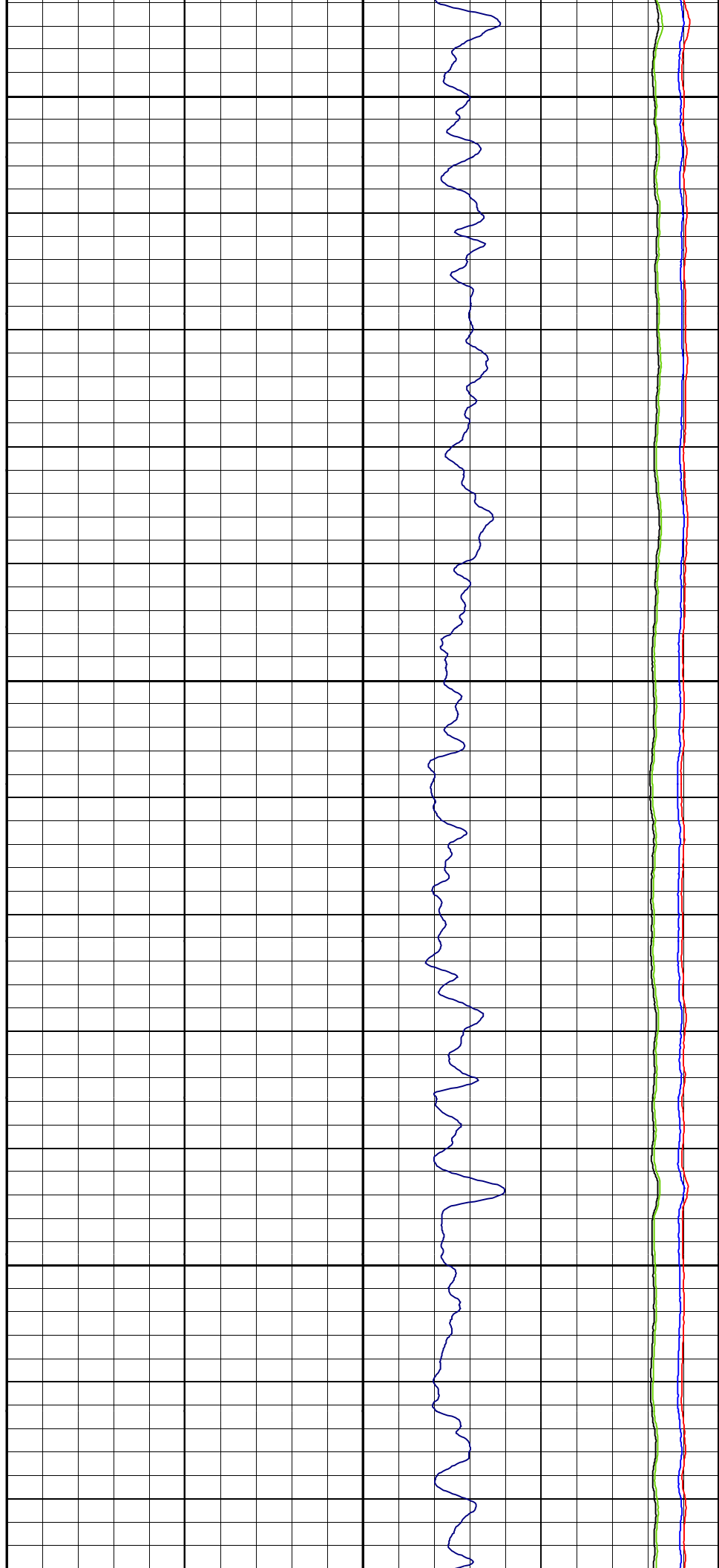


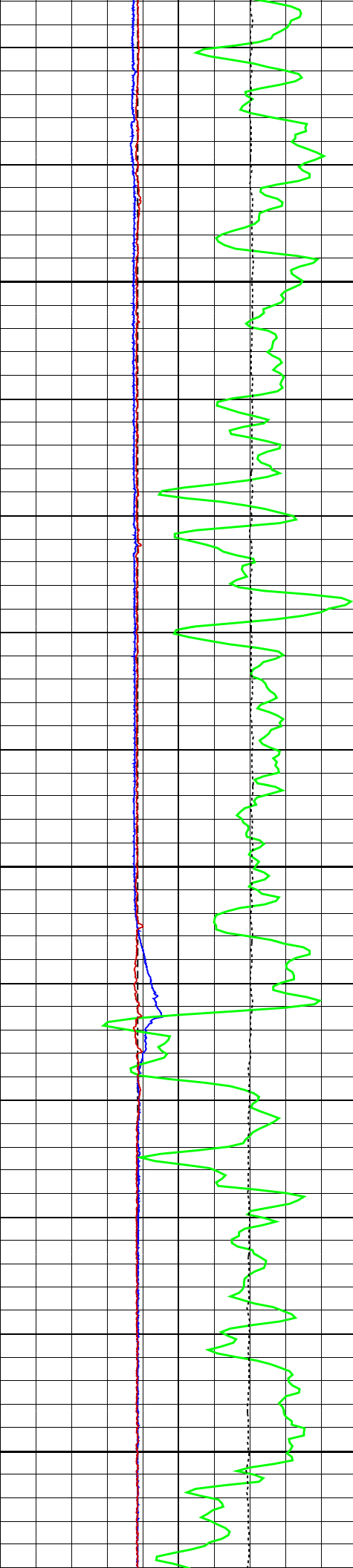


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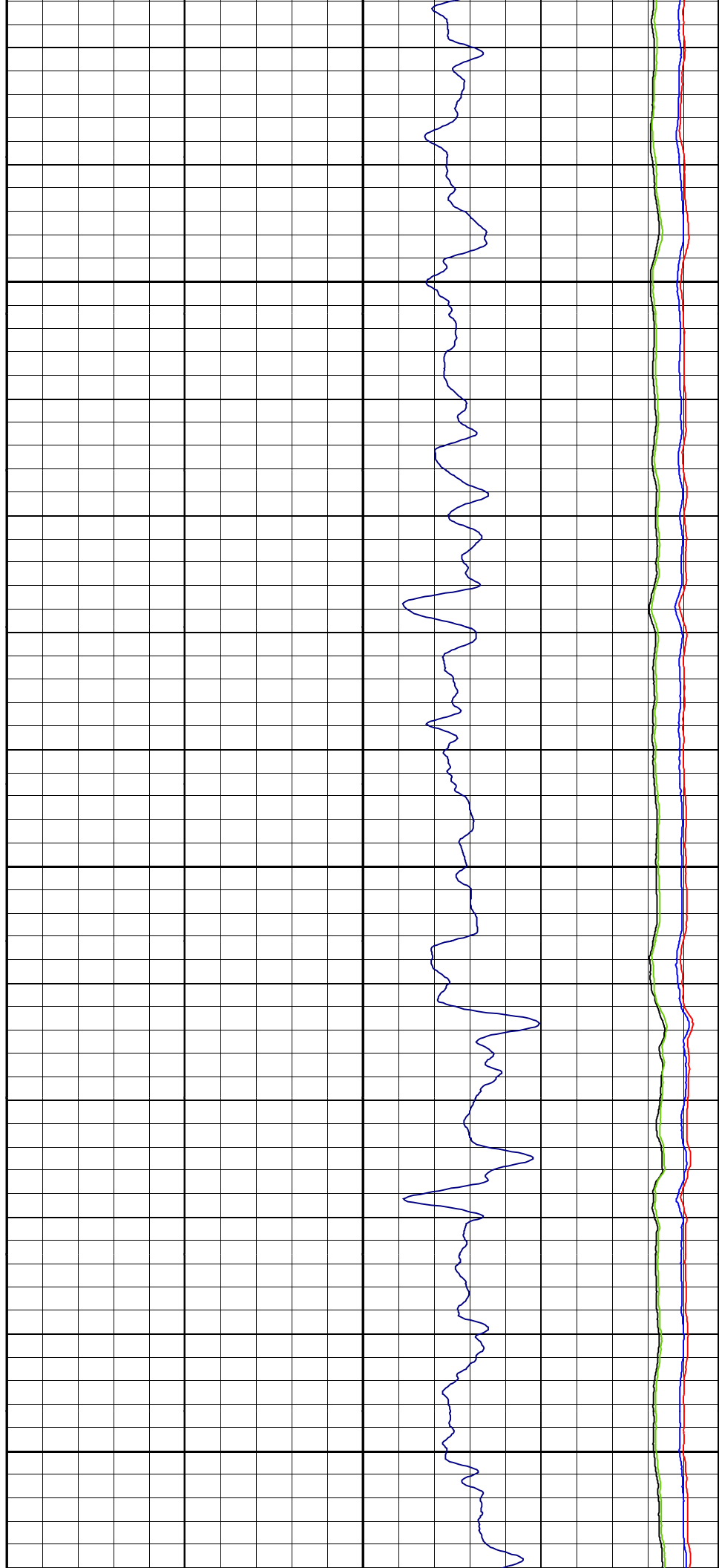


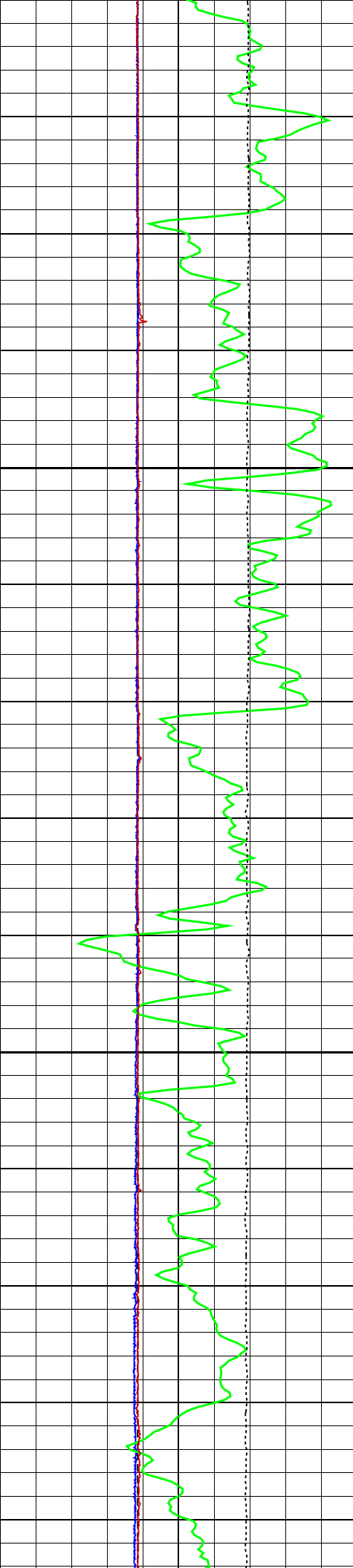


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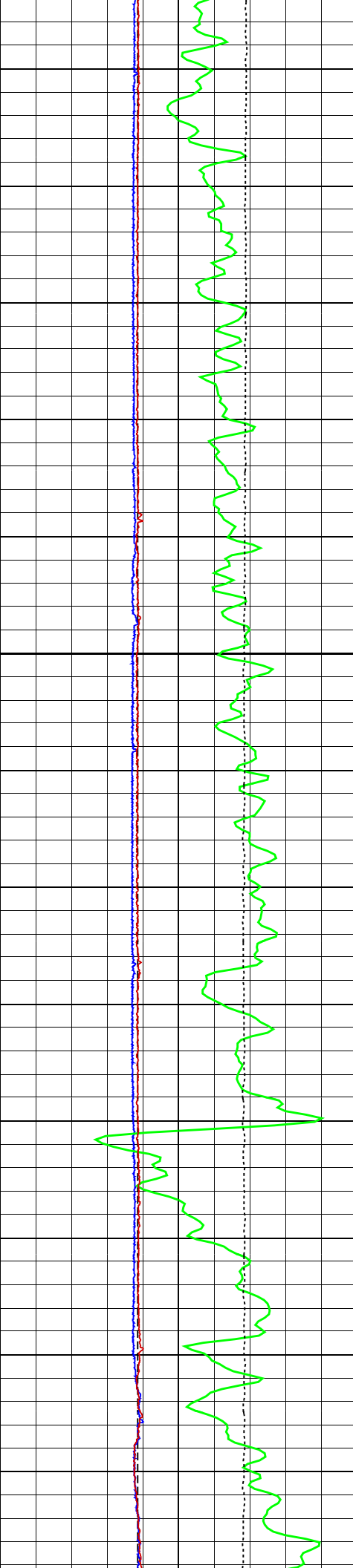


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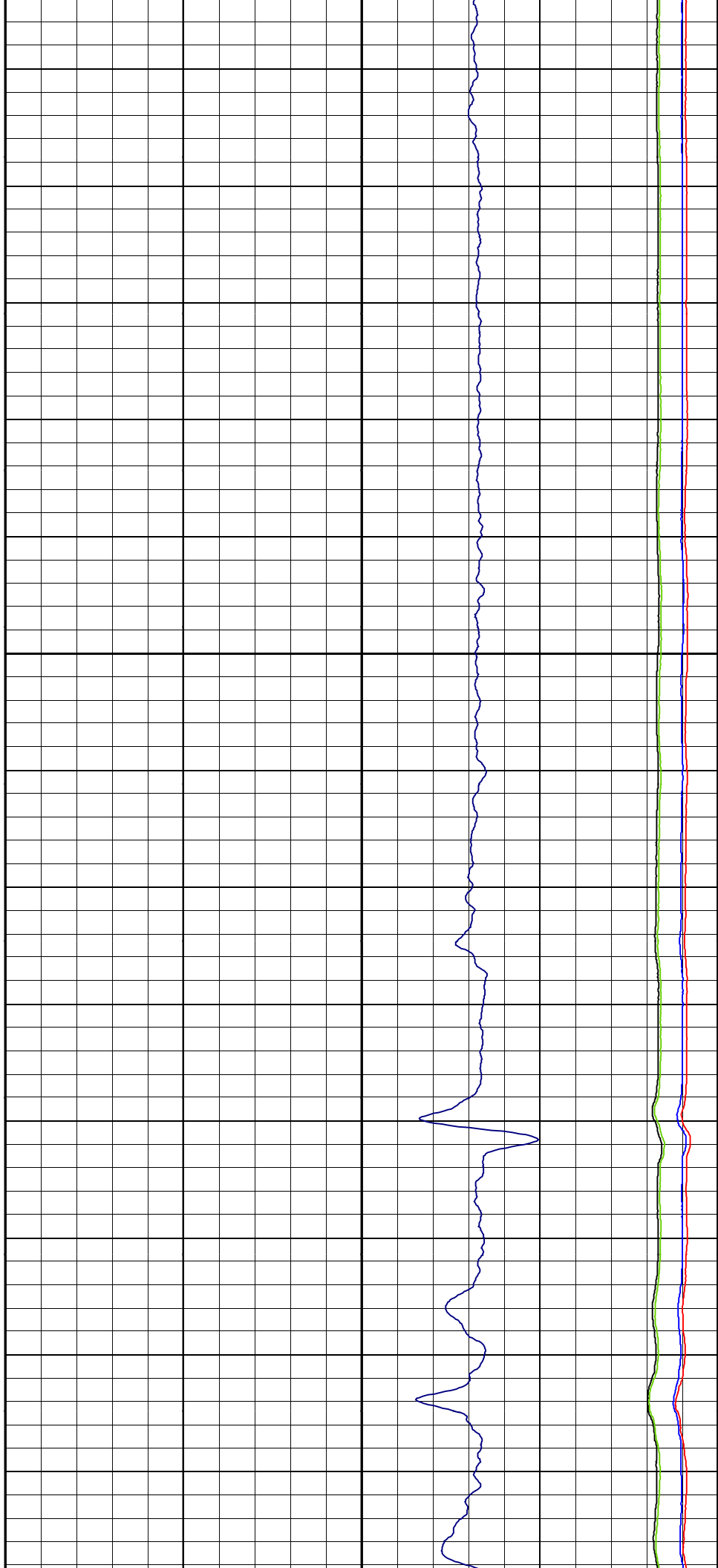


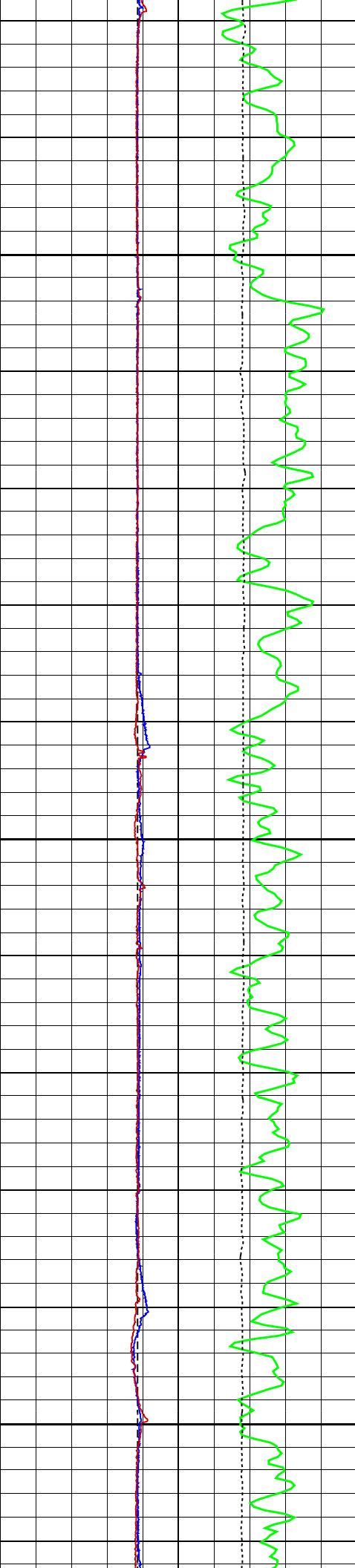


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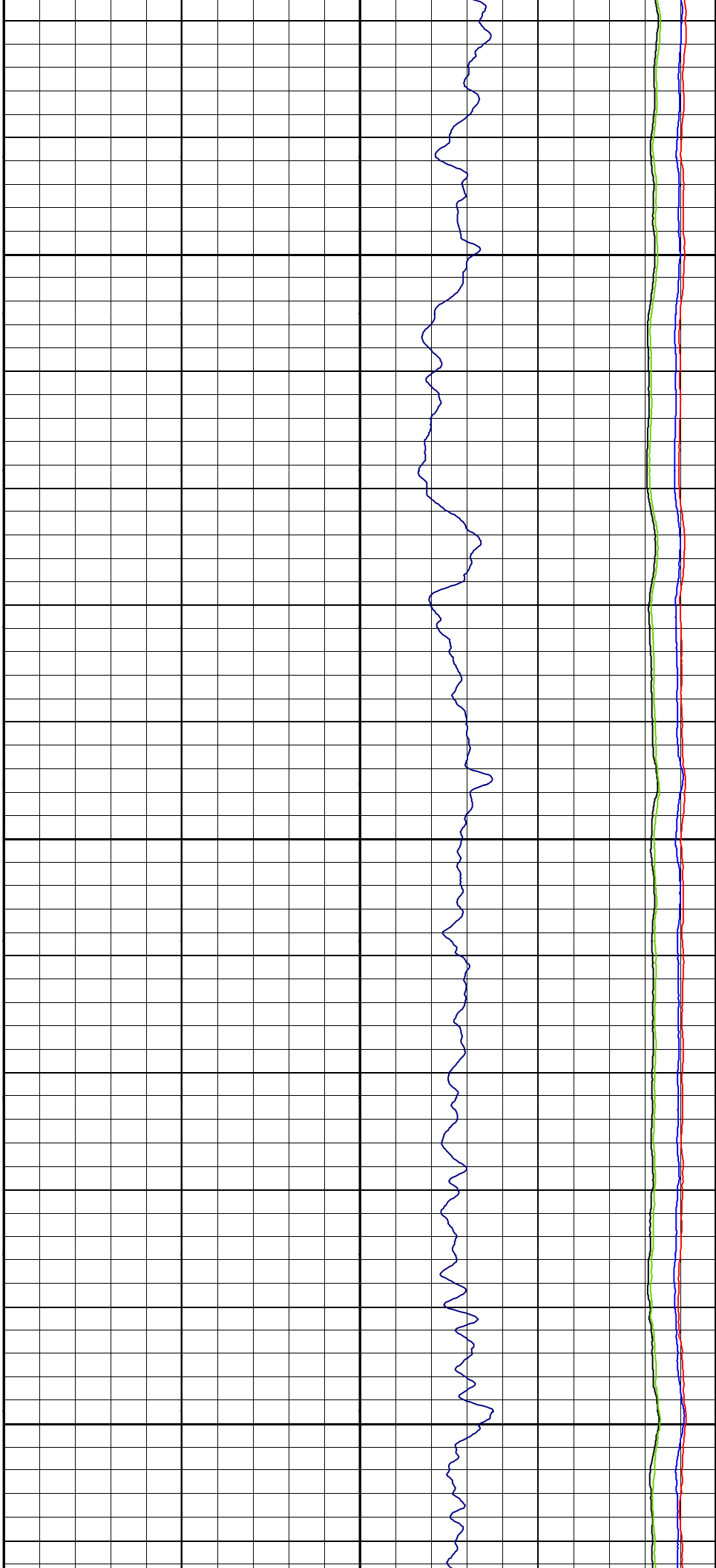




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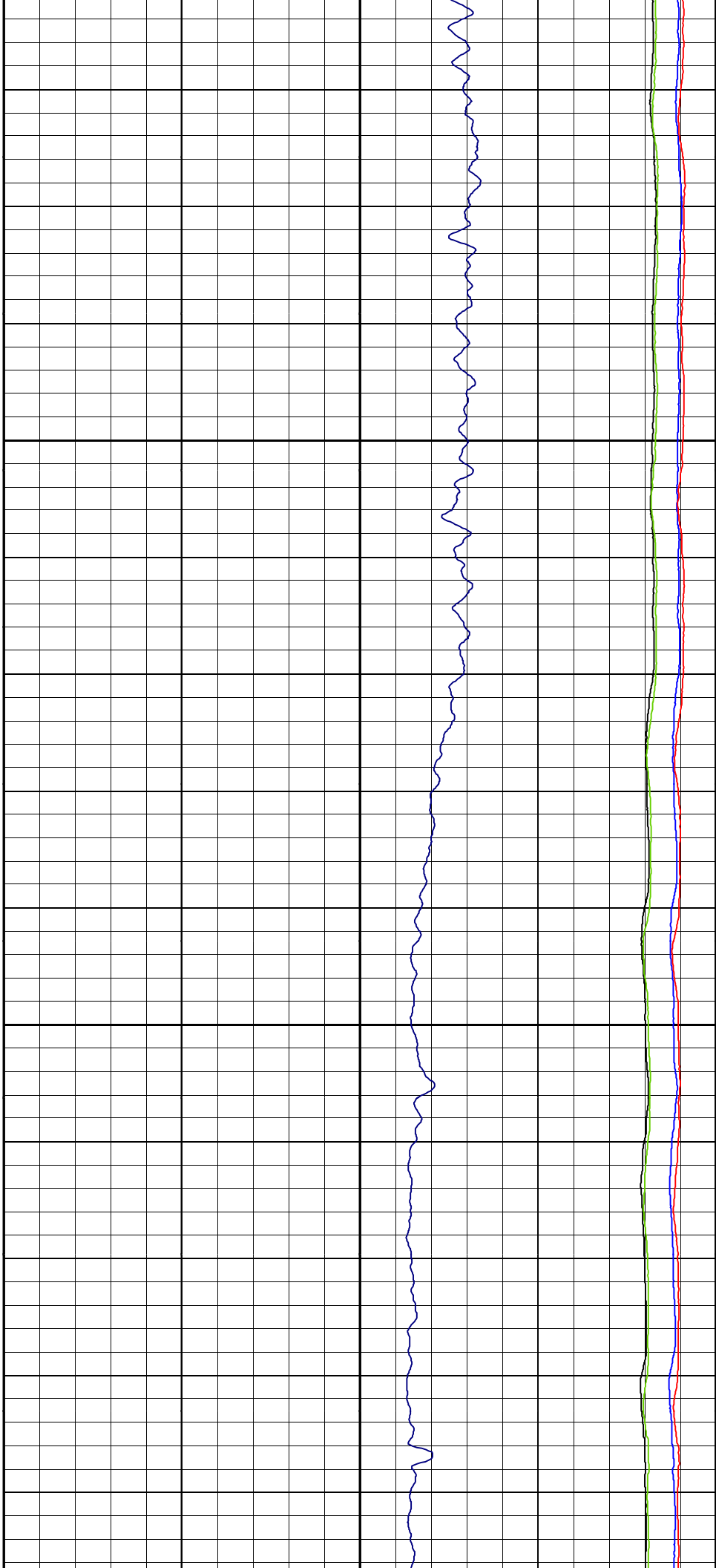
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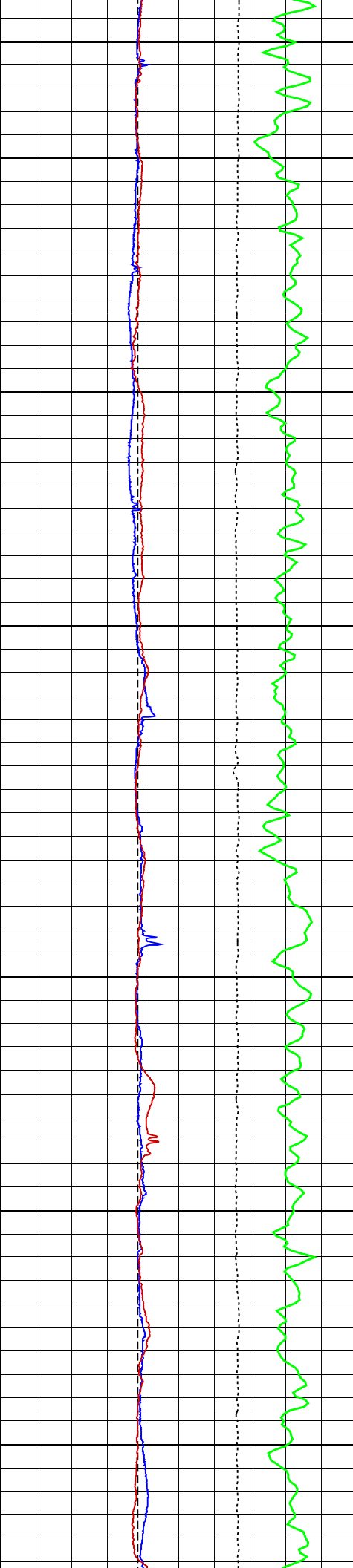




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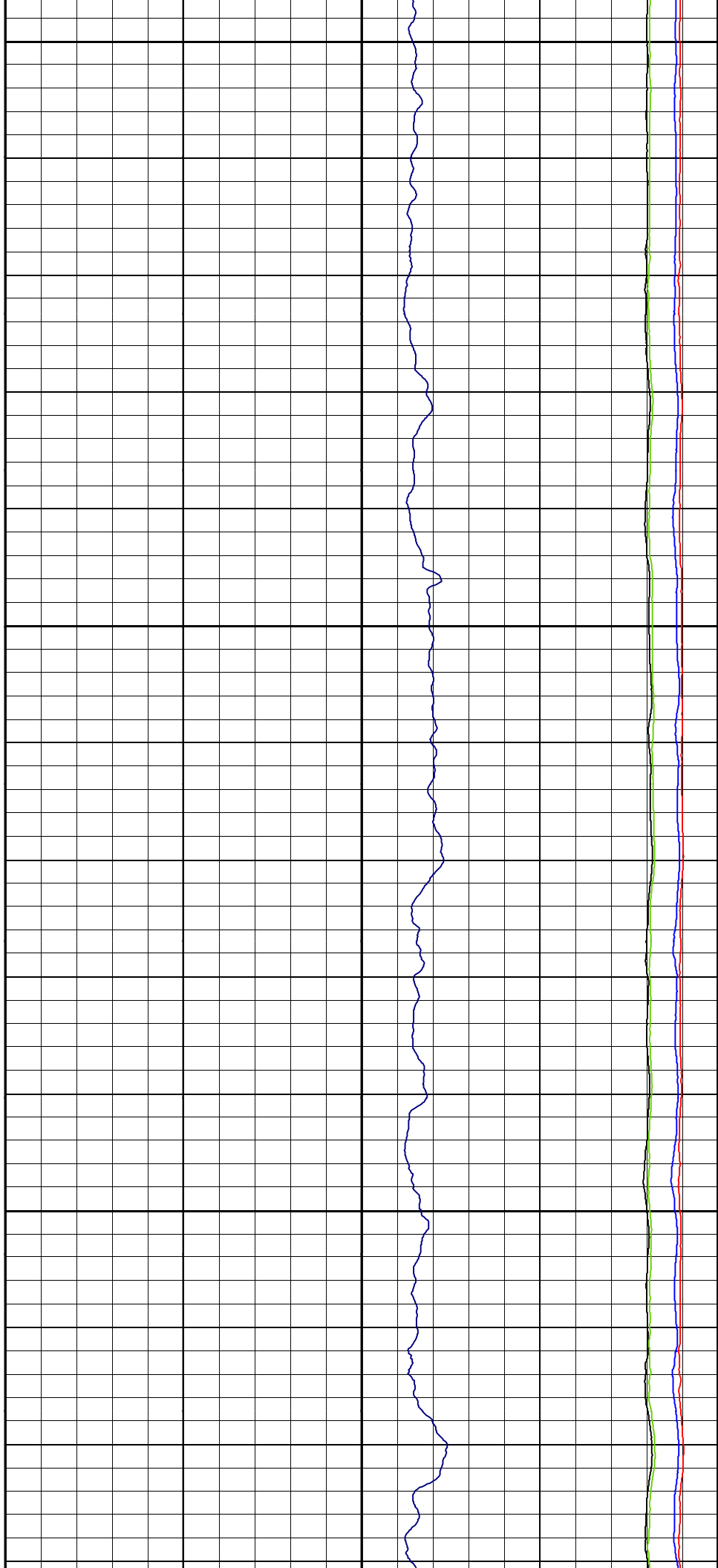


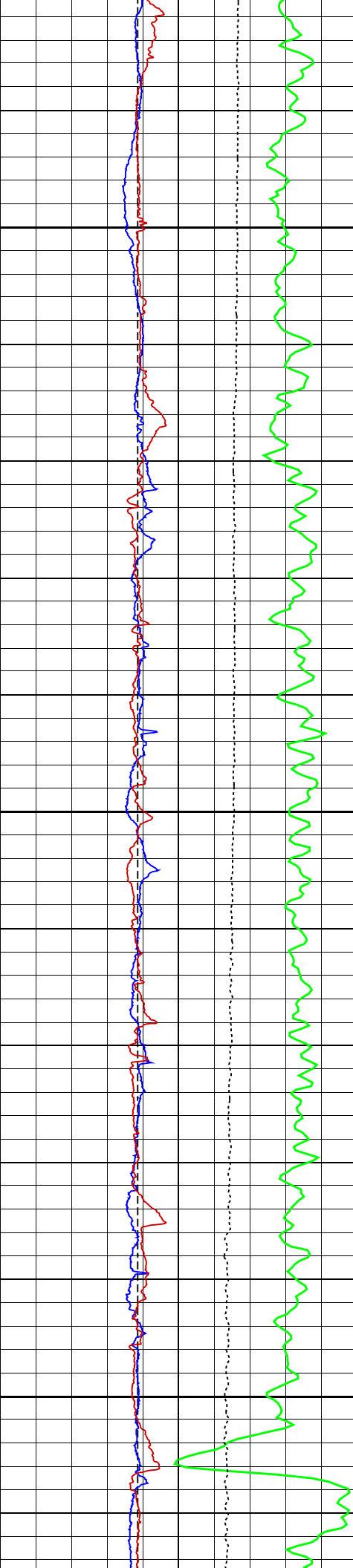


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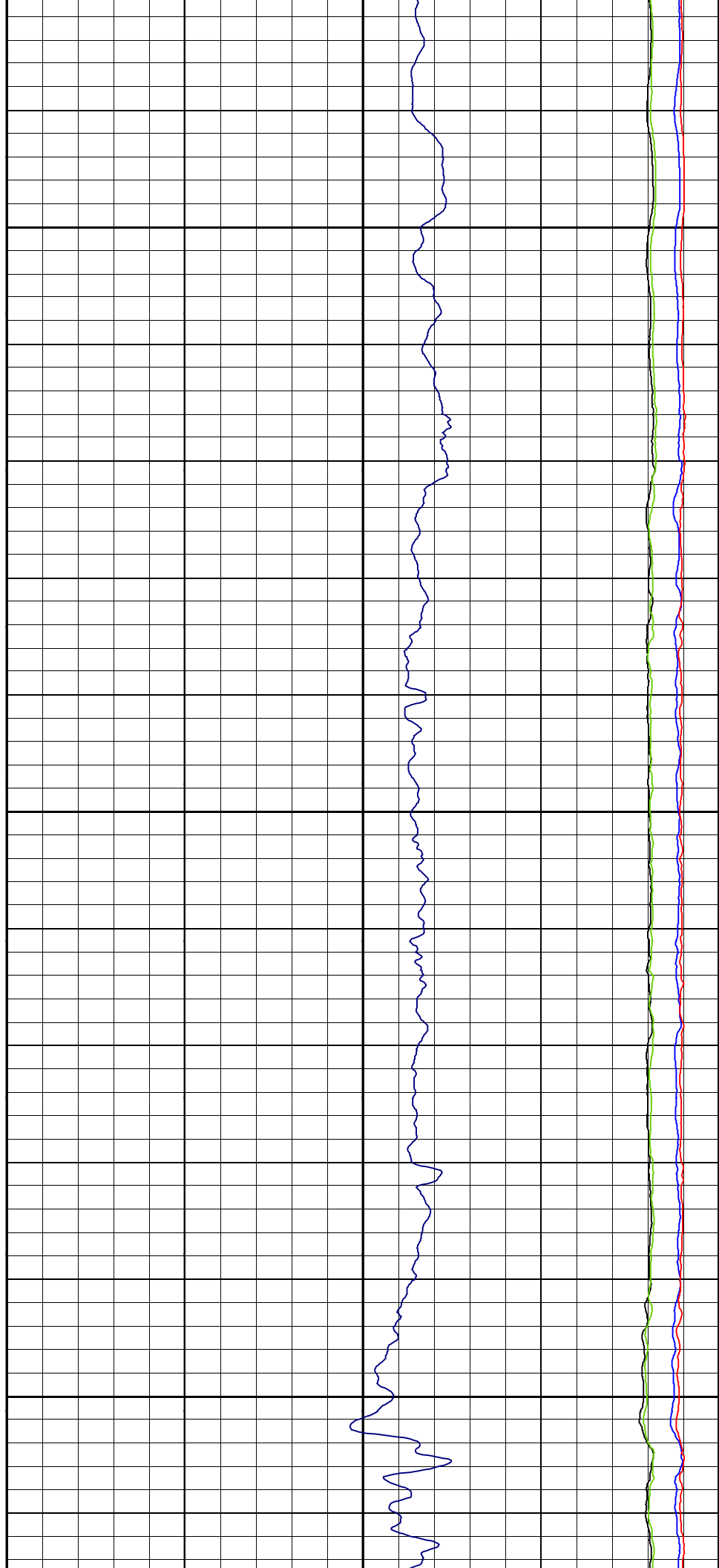


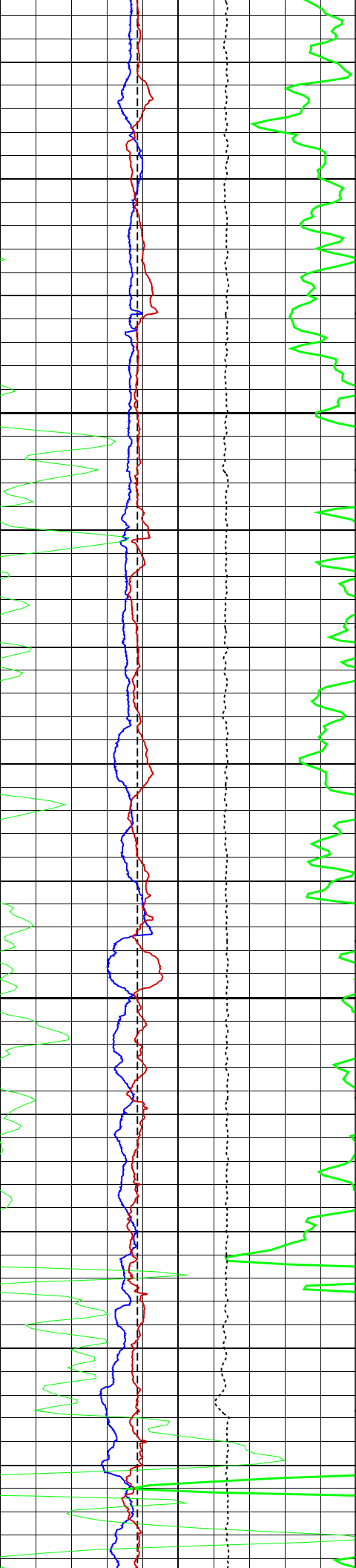


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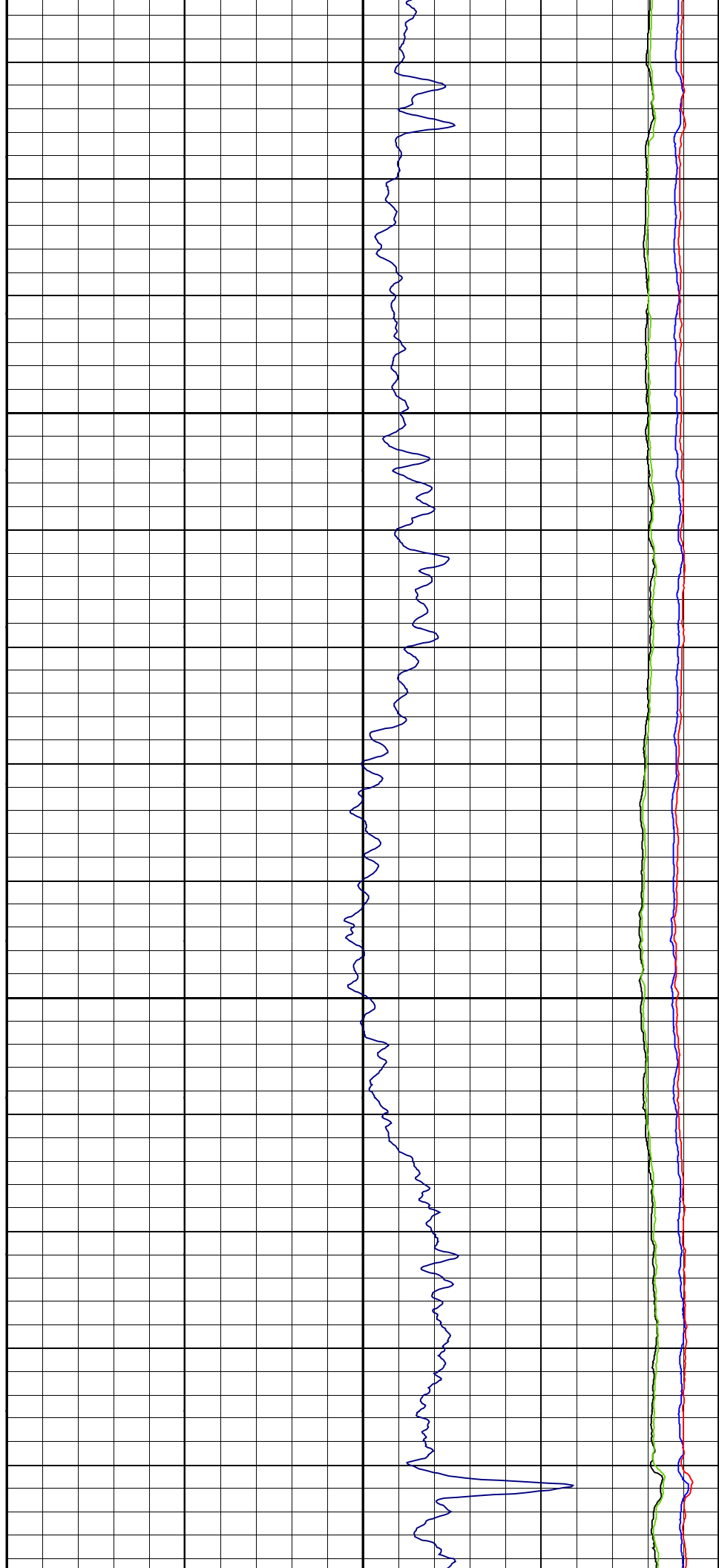
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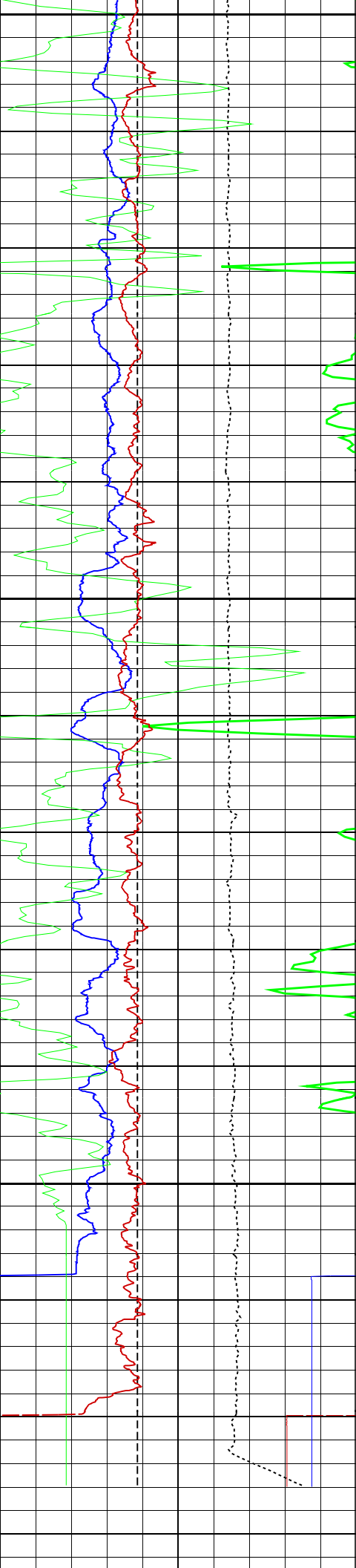




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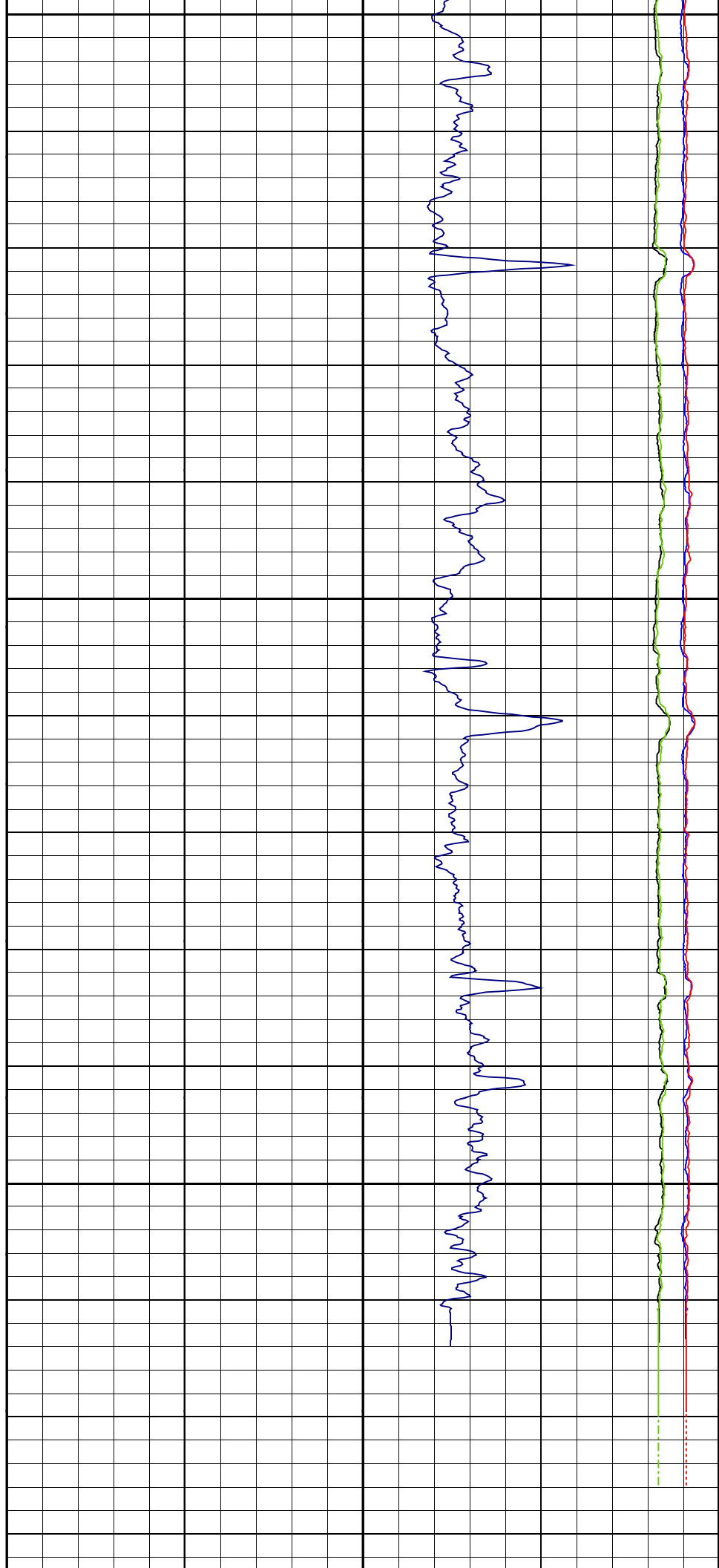




1700

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1750



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Calibration Report

AIT-M (Array Induction Tool - M) Calibration - Run 1.1

Primary Equipment :		
File code for AIT-MA Sonde Tool Element	AMIS	129
Auxiliary Equipment :		
AITM Rm/SP Bottom Nose	AMRM	129

AIT Sonde Calibration - Test Loop Gain

Master (EEPROM):		10:28:12 31-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Test Loop Gain - 0		Master	1.000	0.950	1.014	1.050	
Test Loop Phase - 0	deg	Master	0	-3.000	1.089	3.000	
Test Loop Gain - 1		Master	1.000	0.950	1.008	1.050	
Test Loop Phase - 1	deg	Master	0	-3.000	0.684	3.000	
Test Loop Gain - 2		Master	1.000	0.950	1.009	1.050	
Test Loop Phase - 2	deg	Master	0	-3.000	-0.018	3.000	
Test Loop Gain - 3		Master	1.000	0.950	1.004	1.050	
Test Loop Phase - 3	deg	Master	0	-3.000	0.042	3.000	
Test Loop Gain - 4		Master	1.000	0.950	0.989	1.050	
Test Loop Phase - 4	deg	Master	0	-3.000	0.028	3.000	
Test Loop Gain - 5		Master	1.000	0.950	0.980	1.050	
Test Loop Phase - 5	deg	Master	0	-3.000	-0.052	3.000	
Test Loop Gain - 6		Master	1.000	0.950	0.987	1.050	
Test Loop Phase - 6	deg	Master	0	-3.000	0.343	3.000	
Test Loop Gain - 7		Master	1.000	0.950	1.007	1.050	
Test Loop Phase - 7	deg	Master	0	-3.000	0.019	3.000	

# AIT Sonde Calibration - Sonde Error Correction

Master (EEPROM):		10:28:12 31-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Sonde Error Correction Real - 0	mS/m	Master	----	-231.000	-80.037	119.000	
Sonde Error Correction Quad - 0		Master	----	-2250.000	-45.287	2250.000	
Sonde Error Correction Real - 1	mS/m	Master	----	114.000	162.947	204.000	
Sonde Error Correction Quad - 1		Master	----	-625.000	140.227	625.000	
Sonde Error Correction Real - 2	mS/m	Master	----	66.000	107.663	156.000	
Sonde Error Correction Quad - 2		Master	----	-350.000	-65.097	350.000	
Sonde Error Correction Real - 3	mS/m	Master	----	39.000	59.198	89.000	
Sonde Error Correction Quad - 3		Master	----	-250.000	32.514	250.000	
Sonde Error Correction Real - 4	mS/m	Master	----	15.000	25.111	35.000	
Sonde Error Correction Quad - 4		Master	----	-63.000	12.558	63.000	
Sonde Error Correction Real - 5	mS/m	Master	----	4.000	11.772	24.000	
Sonde Error Correction Quad - 5		Master	----	-50.000	12.598	50.000	
Sonde Error Correction Real - 6	mS/m	Master	----	5.000	9.450	15.000	
Sonde Error Correction Quad - 6		Master	----	-30.000	-1.456	30.000	
Sonde Error Correction Real - 7	mS/m	Master	----	-5.000	-1.529	5.000	
Sonde Error Correction Quad - 7		Master	----	-30.000	-9.453	30.000	

## AIT Mud Calibration - Mud Calibration Gain

Master (EEPROM):		10:28:12 31-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Coarse Gain		Master	1.000	0.800	0.854	1.200	
Fine Gain		Master	1.000	0.800	0.855	1.200	

## AIT Electronics Check - Thru Calibration Check

Master (EEPROM):		10:28:12 31-Dec-2013	Before (Measured):	17:33:23 14-Jan-2014	After:		
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Thru Cal Mag - 0	V	Master	----	0.366	0.621	0.854	
		Before	----	0.366	0.621	0.854	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 0	deg	Master	----	137.000	-174.832	-103.000	
		Before	----	137.000	-166.266	-103.000	
		After	----	----	----	----	
		Before-Master	----	----	8.566	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 1	V	Master	----	0.762	1.275	1.778	
		Before	----	0.762	1.275	1.778	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 1	deg	Master	----	136.000	-175.928	-104.000	
		Before	----	136.000	-167.360	-104.000	
		After	----	----	----	----	
		Before-Master	----	----	8.568	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 2	V	Master	----	0.372	0.632	0.868	
		Before	----	0.372	0.632	0.868	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 2	deg	Master	----	132.000	-179.506	-108.000	
		Before	----	132.000	-170.938	-108.000	
		After	----	----	----	----	
		Before-Master	----	----	8.568	----	
		After-Before	----	----	----	----	
Thru Cal Mag - 3	V	Master	----	0.420	0.715	0.980	
		Before	----	0.420	0.715	0.980	
		After	----	----	----	----	
		Before-Master	----	----	0.000	----	
		After-Before	----	----	----	----	
Thru Cal Phase - 3	deg	Master	----	131.000	179.717	-109.000	
		Before	----	131.000	-171.711	-109.000	
		After	----	----	----	----	

HILTS-H[1] (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1.1			
Primary Equipment :			
HILTS High-Resolution Control Cartridge, 150 degC	HRCC-H		880
HILTS Resistivity Gamma Ray Density Device, 150 degC	HRCD-H		1706

## Auxiliary Equipment :

HRDD Backscatter Detector	Backscatter	
HRDD Long Spacing Detector	Long Spacing	28679
HRDD Short Spacing Detector	Short Spacing	
Cesium 137 Gamma-Ray Logging Source	GSR-J	5285
HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	880
HRMS, 125 degC, 10 kpsi	HRMS-B	894

## Calibration Parameter :

Small Ring Size (Caliper Calibration Small Ring)	203.2
Large Ring Size (Caliper Calibration Large Ring)	304.8

## HDRS Caliper Calibration - Caliper Accumulations

Before (Measured): 06:27:32 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Small Ring	mm	Before	203.2	152.4	199.0	254.0		
Large Ring	mm	Before	304.8	228.6	292.0	381.0		

## HDRS Density Calibration - Inversion Results

Master (EEPROM): 12:27:24 24-Dec-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
Rho Aluminum	kg/m3	Master	2596	2586	2600	2606		
Rho Magnesium	kg/m3	Master	1686	1676	1690	1696		
Pe Aluminum		Master	2.570	2.470	2.579	2.670		
Pe Magnesium		Master	2.650	2.550	2.603	2.750		

## HDRS Density Calibration - Deviation Summary

Master (EEPROM): 12:27:24 24-Dec-2013

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
BS Average Deviation	%	Master	0	-0.6000	0.2068	0.6000		
BS Max Deviation	%	Master	0	-1.6000	0.6397	1.6000		
SS Average Deviation	%	Master	0	-1.0000	0.3839	1.0000		
SS Max Deviation	%	Master	0	-2.5000	1.5922	2.5000		
LS Average Deviation	%	Master	0	-1.5000	0.8683	1.5000		
LS Max Deviation	%	Master	0	-3.5000	2.7525	3.5000		

## HDRS Density Calibration - Background Summary

Master (EEPROM): 12:27:24 24-Dec-2013

Before (Measured):

06:28:18 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
BS Window Ratio		Master	1.0000		0.7364			
		Before	0.7364	0.6996	0.7419	0.7732		
		Before-Master	-----	-----	0.0055	-----		
BS Window Sum	1/s	Master	1		26467			
		Before	26467	25143	26655	27790		
		Before-Master	-----	-----	188	-----		
SS Window Ratio		Master	1.0000		0.4815			
		Before	0.4815	0.4574	0.4769	0.5056		
		Before-Master	-----	-----	-0.0046	-----		
SS Window Sum	1/s	Master	1		11894			
		Before	11894	11300	11857	12489		
		Before-Master	-----	-----	-37	-----		
LS Window Ratio		Master	1.0000		0.2994			
		Before	0.2994	0.2844	0.2975	0.3144		
		Before-Master	-----	-----	-0.0019	-----		
LS Window Sum	1/s	Master	1		1353			
		Before	1353	1285	1341	1421		
		Before-Master	-----	-----	-12	-----		

## HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 12:27:24 24-Dec-2013

Before (Measured):

06:28:18 14-Jan-2014

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit		
BS PM High Voltage	V	Master		1000	1339	2400		
		Before		1000	1329	2400		
		Before-Master	-----	-100	-10	100		
SS PM High Voltage	V	Master		1000	1361	2400		

		Before Before-Master	-----	1000 -100	1398 37	2400 100	
LS PM High Voltage	V	Master Before Before-Master	-----	1000 1000 -100	1321 1343 22	2400 2400 100	

## HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM): 12:27:24 24-Dec-2013		Before (Measured): 06:28:18 14-Jan-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.60	25.00	
		Before		5.00	10.44	25.00	
		Before-Master	-----	-1.00	-0.16	1.00	
SS Crystal Resolution	%	Master		5.00	9.82	20.00	
		Before		5.00	10.29	20.00	
		Before-Master	-----	-1.00	0.47	1.00	
LS Crystal Resolution	%	Master		5.00	8.22	20.00	
		Before		5.00	8.07	20.00	
		Before-Master	-----	-1.00	-0.15	1.00	

## HDRS MCFL Calibration - MCFL Accumulations

Before (Measured): 06:24:53 14-Jan-2014							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3839	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3808	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3810	4136	

## HGNS-H (HILT Gamma-Ray and Neutron Sonde, 150 degC) Calibration - Run 1.1

Primary Equipment :							
	HILT Gamma-Ray and Neutron Sonde, 150 degC		HGNS-H			4792	
Auxiliary Equipment :							
	HGNS Accelerometer, 150 degC		HACCZ-H			5469	
	AmBe Neutron Logging Source		NSR-F			2516	
Calibration Parameter :							
	Water Temperature						
	Housing Size						
	JIG-BKG (Jig minus background reference)		165				

## HGNS Accelerometer Calibration - Accelerometer Accumulations

Before (Measured): 17:31:34 14-Jan-2014							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
AZ Vertical Measurement	m/s2	Before	9.81	9.61	9.81	10.01	

## HGNS Accelerometer EEPROM - Accelerometer EEPROM Read

Master (EEPROM): 00:00:00 15-Sep-2006							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Accelerometer Manufacturer		Master			QAT_160		
Accelerometer Reference Temperature	degC	Master		-1.0	25.0	50.0	
Accelerometer Coefficients - 0		Master	-----	-----	7241.000	-----	
Accelerometer Coefficients - 1		Master	-----	-----	5.473	-----	
Accelerometer Coefficients - 2		Master	-----	-----	-0.012	-----	
Accelerometer Coefficients - 3		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 4		Master	-----	-----	2.735	-----	
Accelerometer Coefficients - 5		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 6		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 7		Master	-----	-----	0.000	-----	
Accelerometer Coefficients - 8		Master	-----	-----	300.400	-----	
Accelerometer Coefficients - 9		Master	-----	-----	0.984	-----	

## HGNS Neutron Calibration - HGNS Neutron Accumulations

Master (EEPROM): 09:05:16 31-Dec-2013		Before (Measured): 06:25:14 14-Jan-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Near Zero Measurement	1/s	Master	0	5.0	27.0	40.0	
		Before	0	5.0	27.3	40.0	

		After Before-Master After-Before	----- ----- -----	-4.1 ----- -----	0.3 ----- -----	4.1 ----- -----	<div><div></div><div></div><div></div></div>
Far Zero Measurement	1/s	Master	0	5.0	26.1	40.0	<div><div></div><div></div><div></div></div>
		Before	0	5.0	28.5	40.0	<div><div></div><div></div><div></div></div>
		After	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		Before-Master After-Before	----- -----	-3.9 -----	2.4 -----	3.9 -----	<div><div></div><div></div><div></div></div>
Near Plus Measurement	1/s	Master	6031.0	4700.0	5851.0	6900.0	<div><div></div><div></div><div></div></div>
		Before	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		After	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		Before-Master After-Before	----- -----	----- -----	----- -----	----- -----	<div><div></div><div></div><div></div></div>
Far Plus Measurement	1/s	Master	2793.0	1900.0	2454.0	2900.0	<div><div></div><div></div><div></div></div>
		Before	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		After	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		Before-Master After-Before	----- -----	----- -----	----- -----	----- -----	<div><div></div><div></div><div></div></div>
Near Corrected Plus Measurement	1/s	Master		4700.0	5865.0	6900.0	<div><div></div><div></div><div></div></div>
		Before	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		After	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		Before-Master After-Before	----- -----	----- -----	----- -----	----- -----	<div><div></div><div></div><div></div></div>
Far Corrected Plus Measurement	1/s	Master		1900.0	2454.0	2900.0	<div><div></div><div></div><div></div></div>
		Before	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		After	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		Before-Master After-Before	----- -----	----- -----	----- -----	----- -----	<div><div></div><div></div><div></div></div>

## HGNS Gamma-Ray Calibration - Gamma-Ray Accumulations

Before (Measured):		06:27:38 14-Jan-2014		After:			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div></div>
RGR Zero Measurement	gAPI	Before	30.0	0	33.9	120.0	<div><div></div><div></div><div></div></div>
		After	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		After-Before	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
RGR Plus Measurement	gAPI	Before	185.4	157.1	159.9	206.3	<div><div></div><div></div><div></div></div>
		After	-----	-----	NOT DONE	-----	<div><div></div><div></div><div></div></div>
		After-Before	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
GR Calibration Gain		Before	0.89	0.80	1.03	1.05	<div><div></div><div></div><div></div></div>
		After	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
		After-Before	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>

## DSLT-H (Digitizing Sonic Logging Tool - H) Calibration - Run 1.1

Primary Equipment :				2047			
Sonic Logging Sonde E supports 3'-5'BHC DT and CBL/VDL		SLS-E					

## CBL Normalization - CBL Accumulations

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div></div>
Upper Far Amplitude - 0		Master	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
Upper Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
Lower Far Amplitude - 0		Master	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
Lower Near Raw Amplitude - 0	mV	Master	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>

## CBL Normalization - CBL/VDL Coefficients

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div></div>
CBL Correction Factor for UT		Master	3.500	2.700	NOT DONE	4.300	<div><div></div><div></div><div></div></div>
CBL Correction Factor for LT		Master	2.500	1.700	NOT DONE	4.300	<div><div></div><div></div><div></div></div>
VDL Ratio between UT and LT for CBLB Mode		Master	1.000		NOT DONE		<div><div></div><div></div><div></div></div>

## CBL Free Pipe Adjustment - Free Pipe Measurement

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div><div></div></div>
CBL Amplitude - 0	mV	Before	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
CBL Reference Amplitude (CBRA) - 0	mV	Before	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>
Measurement Depth - 0	m	Before	-----	-----	-----	-----	<div><div></div><div></div><div></div></div>

CBL Free Pipe Adjustment - CBL Amplitude Coefficient							
Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
CBL Adjustment Factor		Before	1.000	0.200	NOT DONE	5.000	
Depth of Before Calibration	ft	Before			NOT DONE		

HDRS-H[2] (HILT Density and Rxo Sonde, 150 degC) Calibration - Run 1.1			
Primary Equipment :			
	HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
	HILT Resistivity Gamma-Ray Density Device, 150 degC	HRGD-H	3914
Auxiliary Equipment :			
	HRDD Backscatter Detector	Backscatter	
	HRDD Long Spacing Detector	Long Spacing	28710
	HRDD Short Spacing Detector	Short Spacing	27760
	Cesium 137 Gamma-Ray Logging Source	GSR-J	5310
	HILT High-Resolution Control Cartridge, 150 degC	HRCC-H	
	HILT High-Resolution Mechanical Sonde, 150 degC	HRMS-H	3875
Calibration Parameter :			
	Small Ring Size (Caliper Calibration Small Ring)	203.2	
	Large Ring Size (Caliper Calibration Large Ring)	304.8	

HDRS Caliper Calibration - Caliper Accumulations							
Before (Measured):		06:29:21 14-Jan-2014					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Small Ring	mm	Before	203.2	152.4	204.6	254.0	
Large Ring	mm	Before	304.8	228.6	313.3	381.0	

HDRS Density Calibration - Inversion Results							
Master (EEPROM):		10:28:40 24-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Rho Aluminum	kg/m3	Master	2596	2586	2598	2606	
Rho Magnesium	kg/m3	Master	1686	1676	1690	1696	
Pe Aluminum		Master	2.570	2.470	2.568	2.670	
Pe Magnesium		Master	2.650	2.550	2.615	2.750	

HDRS Density Calibration - Deviation Summary							
Master (EEPROM):		10:28:40 24-Dec-2013					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Average Deviation	%	Master	0	-0.6000	0.2310	0.6000	
BS Max Deviation	%	Master	0	-1.6000	0.8128	1.6000	
SS Average Deviation	%	Master	0	-1.0000	0.6214	1.0000	
SS Max Deviation	%	Master	0	-2.5000	1.9703	2.5000	
LS Average Deviation	%	Master	0	-1.5000	0.3753	1.5000	
LS Max Deviation	%	Master	0	-3.5000	1.3653	3.5000	

HDRS Density Calibration - Background Summary							
Master (EEPROM):		10:28:40 24-Dec-2013		Before (Measured): 14:51:08 09-Jan-2014 Expired by 4 days			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Window Ratio		Master	1.0000		0.7406		
		Before	0.7406	0.7036	0.7452	0.7776	
		Before-Master	-----	-----	0.0046	-----	
BS Window Sum	1/s	Master	1		23979		
		Before	23979	22780	24136	25178	
		Before-Master	-----	-----	157	-----	
SS Window Ratio		Master	1.0000		0.4809		
		Before	0.4809	0.4569	0.4768	0.5050	
		Before-Master	-----	-----	-0.0041	-----	
SS Window Sum	1/s	Master	1		10589		
		Before	10589	10060	10583	11119	
		Before-Master	-----	-----	-6	-----	
LS Window Ratio		Master	1.0000		0.3042		
		Before	0.3042	0.2800	0.3088	0.3104	
		Before-Master	-----	-----	0.0046	-----	

		Before-Master	0.3042	0.2890	0.2968 -0.0054	0.3194	
LS Window Sum	1/s	Master	1		1192		
		Before	1192	1132	1180	1251	
		Before-Master	-----	-----	-12	-----	

## HDRS Density Calibration - Photo-multiplier High Voltages

Master (EEPROM): 10:28:40 24-Dec-2013		Before (Measured):		14:51:08 09-Jan-2014 Expired by 4 days			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS PM High Voltage	V	Master		1000	1448	2400	
		Before		1000	1447	2400	
		Before-Master	-----	-100	-1	100	
SS PM High Voltage	V	Master		1000	1477	2400	
		Before		1000	1506	2400	
		Before-Master	-----	-100	29	100	
LS PM High Voltage	V	Master		1000	1289	2400	
		Before		1000	1286	2400	
		Before-Master	-----	-100	-3	100	

## HDRS Density Calibration - Crystal Quality Resolutions

Master (EEPROM): 10:28:40 24-Dec-2013		Before (Measured):		14:51:08 09-Jan-2014 Expired by 4 days			
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
BS Crystal Resolution	%	Master		5.00	10.46	25.00	
		Before		5.00	10.41	25.00	
		Before-Master	-----	-1.00	-0.05	1.00	
SS Crystal Resolution	%	Master		5.00	10.04	20.00	
		Before		5.00	10.64	20.00	
		Before-Master	-----	-1.00	0.60	1.00	
LS Crystal Resolution	%	Master		5.00	8.04	20.00	
		Before		5.00	8.03	20.00	
		Before-Master	-----	-1.00	-0.01	1.00	

## HDRS MCFL Calibration - MCFL Accumulations

Before (Measured): 06:25:34 14-Jan-2014							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Main Resistivity	ohm.m	Before	3875	3565	3906	4185	
Deep Resistivity	ohm.m	Before	3830	3524	3827	4136	
Shallow Resistivity	ohm.m	Before	3830	3524	3837	4136	

## SGT-N (Scintillation Gamma-Ray Tool) Calibration - Run 1.1

Primary Equipment :			
Scintillation Gamma Cartridge	SGC-TB	10447	
Calibration Parameter :			
Plus Reference (Jig minus background reference)	165		

## SGT-N Gamma-Ray Calibration - Gamma Ray Coefficients

Before (Measured): 06:28:02 14-Jan-2014		After:					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Gain		Before			1.169		
		After	-----	-----	-----	-----	
		After-Before	-----	-----	-----	-----	

## SGT-N Gamma-Ray Calibration - Gamma Ray Accumulations

Before (Measured): 06:28:02 14-Jan-2014		After:					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Zero Measurement	gAPI	Before		0	44.958	120.000	
		After	-----	-----	-----	-----	
		After-Before	-----	-----	-----	-----	
RGR Plus Measurement	gAPI	Before	141.161	128.328	141.161	153.994	
		After			NOT DONE		
		After-Before	-----	-----	-----	-----	

## SGT-N Gamma-Ray Plateau Check - Gamma Ray Plateau Check

Before (Measured): 14:58:24 09-Jan-2014		After:					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RGR Plus Plateau Measurement	gAPI	Before			173.529		
		After	-----	-----	-----	-----	
		After-Before	-----	-----	-----	-----	



		After-Before	----	----	----		
RGR Minus Plateau Measurement	gAPI	Before			170.096		
		After	----	----	----	----	
		After-Before	----	----	----	----	

# LEH-QT (Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor) Calibration - Run 1.1

Primary Equipment :	Logging Equipment Head - QT, 3-3/8 inch 31 pin HPHT with Tension Sensor	LEH-QT	2850
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## HTEN Master Calibration - HTEN Master Calibration

Master:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
HTEN Shop Gain		Master	1.000	0.800	NOT DONE	4.500	
HTEN Shop Offset	lbf	Master	0	-4448.222	NOT DONE	4448.222	

## HTEN Before Calibration - HTEN Before Calibration

Before:							
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
RHTE Zero Measurement - 0	lbf	Before	----	----	----	----	
RHTE Plus Measurement - 0	lbf	Before	----	----	----	----	
HTEN Gain - 0		Before	----	----	----	----	
HTEN Offset - 0	lbf	Before	----	----	----	----	

## Survey Record

Survey Calculation			
Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	True North	Total Correction Formula :	Magnetic Dec

Rig Location			
Latitude :	65° 5' 27" N	Longitude :	126° 59' 58" W
Tie In Point			
Measured Depth:	0.00 m	Inclination:	0.00 deg
True Vertical Depth:	0.00 m	North Displacement:	0.00 m

Survey Quality Index	
9 : Manual	28 : Tie-In Point

Survey Correction Index	
0 : No correction	

Survey Description Index	
0 : Not Flagged Survey	

Seq	MD (m)	Incl (deg)	Azim (deg)	Course (m)	TVD (m)	V Sec (m)	N/ -S (m)	E/ -W (m)	Closure (m)	at Azim (deg)	DLS deg/30m	Tool Type	QI	CI	DI
1	0.00	0.00	0.00	----	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP	28	0	0
2	29.00	0.40	0.00	29.00	29.00	0.10	0.10	0.00	0.10	360.00	0.41	Other	9	0	0
3	62.00	0.50	0.00	33.00	62.00	0.36	0.36	0.00	0.36	360.00	0.09	Other	9	0	0
4	90.00	0.20	0.00	28.00	90.00	0.53	0.53	0.00	0.53	360.00	0.32	Other	9	0	0
5	118.00	0.20	0.00	28.00	118.00	0.63	0.63	0.00	0.63	360.00	0.00	Other	9	0	0
6	146.00	0.10	0.00	28.00	146.00	0.70	0.70	0.00	0.70	360.00	0.11	Other	9	0	0
7	183.00	0.20	0.00	37.00	183.00	0.80	0.80	0.00	0.80	360.00	0.08	Other	9	0	0
8	211.00	0.30	0.00	28.00	211.00	0.92	0.92	0.00	0.92	360.00	0.11	Other	9	0	0
9	240.00	0.50	0.00	29.00	240.00	1.12	1.12	0.00	1.12	360.00	0.21	Other	9	0	0
10	269.00	0.80	0.00	29.00	268.99	1.45	1.45	0.00	1.45	360.00	0.31	Other	9	0	0
11	306.00	1.00	0.00	37.00	305.99	2.03	2.03	0.00	2.03	360.00	0.16	Other	9	0	0
12	348.00	0.90	0.00	42.00	347.98	2.73	2.73	0.00	2.73	360.00	0.07	Other	9	0	0
13	378.00	0.40	0.00	30.00	377.98	3.07	3.07	0.00	3.07	360.00	0.50	Other	9	0	0
14	396.00	0.60	0.00	18.00	395.98	3.23	3.23	0.00	3.23	360.00	0.33	Other	9	0	0
15	433.00	0.60	0.00	37.00	432.98	3.62	3.62	0.00	3.62	360.00	0.00	Other	9	0	0
16	461.00	0.60	0.00	28.00	460.98	3.91	3.91	0.00	3.91	360.00	0.00	Other	9	0	0
17	489.00	0.50	0.00	28.00	488.98	4.18	4.18	0.00	4.18	360.00	0.11	Other	9	0	0

18	508.00	0.70	0.00	19.00	507.98	4.38	4.38	0.00	4.38	360.00	0.32	Other	9	0	0
19	544.00	0.40	0.00	36.00	543.97	4.72	4.72	0.00	4.72	360.00	0.25	Other	9	0	0
20	571.00	0.50	0.00	27.00	570.97	4.93	4.93	0.00	4.93	360.00	0.11	Other	9	0	0
21	627.50	0.31	124.14	56.50	627.47	5.09	5.09	0.13	5.10	1.42	0.38	Other	9	0	0
22	704.50	0.62	137.27	77.00	704.47	4.67	4.67	0.58	4.71	7.10	0.13	Other	9	0	0
23	781.50	0.71	129.47	77.00	781.46	4.06	4.06	1.23	4.25	16.88	0.05	Other	9	0	0
24	818.50	0.71	121.14	37.00	818.46	3.80	3.80	1.61	4.12	22.92	0.08	Other	9	0	0
25	856.50	1.28	112.77	38.00	856.46	3.51	3.51	2.20	4.14	32.05	0.46	Other	9	0	0
26	896.50	1.28	113.56	40.00	896.45	3.16	3.16	3.02	4.37	43.70	0.01	Other	9	0	0
27	932.50	1.19	113.98	36.00	932.44	2.85	2.85	3.73	4.69	52.64	0.08	Other	9	0	0
28	970.50	0.88	151.55	38.00	970.43	2.43	2.43	4.23	4.88	60.11	0.57	Other	9	0	0
29	1008.50	1.02	147.85	38.00	1008.43	1.89	1.89	4.55	4.93	67.46	0.12	Other	9	0	0
30	1046.50	1.19	133.05	38.00	1046.42	1.33	1.33	5.02	5.19	75.13	0.26	Other	9	0	0
31	1084.50	1.50	124.45	38.00	1084.41	0.78	0.78	5.72	5.77	82.21	0.29	Other	9	0	0
32	1122.50	1.10	145.78	38.00	1122.40	0.20	0.20	6.33	6.33	88.20	0.49	Other	9	0	0
33	1160.50	1.19	131.15	38.00	1160.39	-0.36	-0.36	6.83	6.84	93.04	0.24	Other	9	0	0
34	1198.50	2.12	145.56	38.00	1198.38	-1.20	-1.20	7.53	7.62	99.07	0.80	Other	9	0	0
35	1236.50	1.81	176.76	38.00	1236.35	-2.38	-2.38	7.96	8.31	106.65	0.87	Other	9	0	0
36	1274.50	1.41	163.67	38.00	1274.34	-3.43	-3.43	8.12	8.82	112.88	0.43	Other	9	0	0
37	1312.50	1.90	156.64	38.00	1312.32	-4.46	-4.46	8.51	9.60	117.65	0.42	Other	9	0	0
38	1351.50	2.12	141.06	39.00	1351.30	-5.61	-5.61	9.22	10.79	121.33	0.45	Other	9	0	0
39	1389.50	2.90	172.66	38.00	1389.27	-7.11	-7.11	9.78	12.09	126.02	1.23	Other	9	0	0
40	1426.50	2.78	175.74	37.00	1426.22	-8.93	-8.93	9.97	13.38	131.87	0.16	Other	9	0	0
41	1446.00	4.20	204.66	19.50	1445.68	-10.05	-10.05	9.70	13.97	136.02	3.41	Other	9	0	0
42	1464.50	2.70	229.77	18.50	1464.15	-10.95	-10.95	9.09	14.23	140.31	3.40	Other	9	0	0
43	1474.50	4.02	247.44	10.00	1474.13	-11.24	-11.24	8.58	14.14	142.62	4.99	Other	9	0	0
44	1483.50	4.60	257.05	9.00	1483.11	-11.44	-11.44	7.94	13.93	145.23	3.08	Other	9	0	0
45	1493.50	6.32	262.42	10.00	1493.06	-11.60	-11.60	7.01	13.55	148.88	5.38	Other	9	0	0
46	1503.00	7.11	268.46	9.50	1502.50	-11.69	-11.69	5.90	13.09	153.22	3.34	Other	9	0	0
47	1512.50	8.09	268.37	9.50	1511.91	-11.72	-11.72	4.64	12.61	158.39	3.09	Other	9	0	0
48	1522.00	8.62	267.36	9.50	1521.31	-11.77	-11.77	3.26	12.22	164.51	1.74	Other	9	0	0
49	1531.50	9.81	264.58	9.50	1530.69	-11.88	-11.88	1.75	12.01	171.64	4.01	Other	9	0	0
50	1541.00	10.78	267.18	9.50	1540.04	-12.00	-12.00	0.05	12.00	179.74	3.40	Other	9	0	0
51	1550.50	11.62	269.47	9.50	1549.36	-12.06	-12.06	-1.79	12.19	188.45	3.00	Other	9	0	0
52	1560.00	12.59	269.78	9.50	1558.65	-12.07	-12.07	-3.78	12.65	197.40	3.07	Other	9	0	0
53	1569.50	14.41	271.28	9.50	1567.88	-12.05	-12.05	-6.00	13.46	206.48	5.85	Other	9	0	0
54	1580.00	15.60	270.75	10.50	1578.02	-12.00	-12.00	-8.72	14.83	216.00	3.42	Other	9	0	0
55	1599.00	19.40	278.37	19.00	1596.14	-11.51	-11.51	-14.40	18.43	231.37	6.99	Other	9	0	0
56	1608.50	19.31	287.85	9.50	1605.11	-10.79	-10.79	-17.45	20.52	238.27	9.92	Other	9	0	0
57	1617.50	19.80	296.44	9.00	1613.59	-9.66	-9.66	-20.24	22.42	244.48	9.71	Other	9	0	0
58	1627.00	20.19	300.14	9.50	1622.52	-8.12	-8.12	-23.09	24.48	250.63	4.18	Other	9	0	0
59	1636.50	21.21	303.36	9.50	1631.41	-6.35	-6.35	-25.95	26.71	256.25	4.83	Other	9	0	0
60	1645.50	22.80	306.18	9.00	1639.75	-4.43	-4.43	-28.72	29.05	261.24	6.36	Other	9	0	0
61	1655.00	24.48	309.35	9.50	1648.45	-2.09	-2.09	-31.72	31.79	266.23	6.65	Other	9	0	0
62	1664.50	27.22	309.27	9.50	1657.00	0.53	0.53	-34.93	34.93	270.87	8.65	Other	9	0	0
63	1674.00	29.12	310.94	9.50	1665.38	3.42	3.42	-38.36	38.51	275.10	6.50	Other	9	0	0
64	1683.50	31.20	312.66	9.50	1673.59	6.61	6.61	-41.91	42.43	278.96	7.11	Other	9	0	0
65	1693.00	33.41	312.66	9.50	1681.62	10.05	10.05	-45.65	46.74	282.41	6.98	Other	9	0	0
66	1702.50	36.10	310.68	9.50	1689.42	13.64	13.64	-49.69	51.53	285.35	9.21	Other	9	0	0
67	1712.00	38.62	308.96	9.50	1696.98	17.33	17.33	-54.12	56.83	287.76	8.61	Other	9	0	0
68	1721.50	41.71	305.96	9.50	1704.23	21.05	21.05	-58.99	62.63	289.64	11.51	Other	9	0	0
69	1731.00	44.19	306.67	9.50	1711.19	24.89	24.89	-64.20	68.86	291.19	7.98	Other	9	0	0
70	1740.50	47.02	306.67	9.50	1717.83	28.94	28.94	-69.65	75.42	292.56	8.94	Other	9	0	0
71	1750.00	48.61	307.77	9.50	1724.21	33.20	33.20	-75.25	82.25	293.81	5.64	Other	9	0	0

	1736.00	48.01	307.77	9.50	1724.21	55.20	55.20	-75.25	82.25	295.81	5.04	Other	9	0	0
72	1759.50	50.91	309.66	9.50	1730.35	37.74	37.74	-80.91	89.27	295.00	8.57	Other	9	0	0
73	1769.00	52.32	310.15	9.50	1736.25	42.51	42.51	-86.62	96.49	296.14	4.61	Other	9	0	0
74	1778.50	55.50	312.17	9.50	1741.84	47.57	47.57	-92.39	103.92	297.24	11.29	Other	9	0	0
75	1788.00	57.58	311.87	9.50	1747.08	52.87	52.87	-98.28	111.60	298.28	6.62	Other	9	0	0
76	1797.50	60.41	310.28	9.50	1751.97	58.22	58.22	-104.42	119.55	299.14	9.92	Other	9	0	0
77	1807.00	63.10	308.96	9.50	1756.47	63.55	63.55	-110.87	127.79	299.82	9.25	Other	9	0	0
78	1816.50	66.11	308.78	9.50	1760.54	68.94	68.94	-117.55	136.27	300.39	9.52	Other	9	0	0
79	1825.00	69.51	308.34	8.50	1763.75	73.84	73.84	-123.70	144.07	300.84	12.09	Other	9	0	0
80	1835.00	73.49	307.55	10.00	1766.93	79.67	79.67	-131.18	153.48	301.27	12.15	Other	9	0	0
81	1845.00	76.71	307.55	10.00	1769.50	85.56	85.56	-138.84	163.09	301.64	9.66	Other	9	0	0
82	1854.50	79.10	305.56	9.50	1771.49	91.09	91.09	-146.30	172.34	301.91	9.73	Other	9	0	0
83	1864.00	80.20	304.07	9.50	1773.19	96.43	96.43	-153.97	181.68	302.06	5.79	Other	9	0	0
84	1873.50	82.02	303.67	9.50	1774.66	101.66	101.66	-161.77	191.06	302.15	5.88	Other	9	0	0
85	1883.00	84.71	302.88	9.50	1775.76	106.84	106.84	-169.66	200.49	302.20	8.85	Other	9	0	0
86	1889.50	86.61	302.26	6.50	1776.25	110.33	110.33	-175.12	206.97	302.21	9.22	Other	9	0	0

Field: DODO CANYON

Province: NORTHWEST TERRITORIES

BOREHOLE COMPENSATED \*\*\*TVD\*\*\*

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