



DISCLAIMER

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OTHER SERVICES1

- OS1: HNGS
- OS2: HRLA
- OS3: HLDS
- OS4: DSI
- OS5: FMS

REMARKS: RUN NUMBER 1

Hole drilled and cored using APC/XCB coring system.

Modified MCD devices run above and below HRLA for centralization.

HLDS and MSS eccentralized by caliper and bowspring with knuckled to decouple from HRLA.

LFV Actuator (Go-Devil) run attached to bottom of MSS for LFV locking open / closed.

Logs recorded from drill floor (337.1m above permanent datum) then shifted to zero at sea floor.

Hole drilled with sea water and then displaced with weighted water-based mud having a density of 1.259 g/cc (10.5ppg).

Barite corrections applied to nuclear logs.



Caliper closed at 104.2mbsf to facilitate pipe entry; AHC not used due to very low heave.

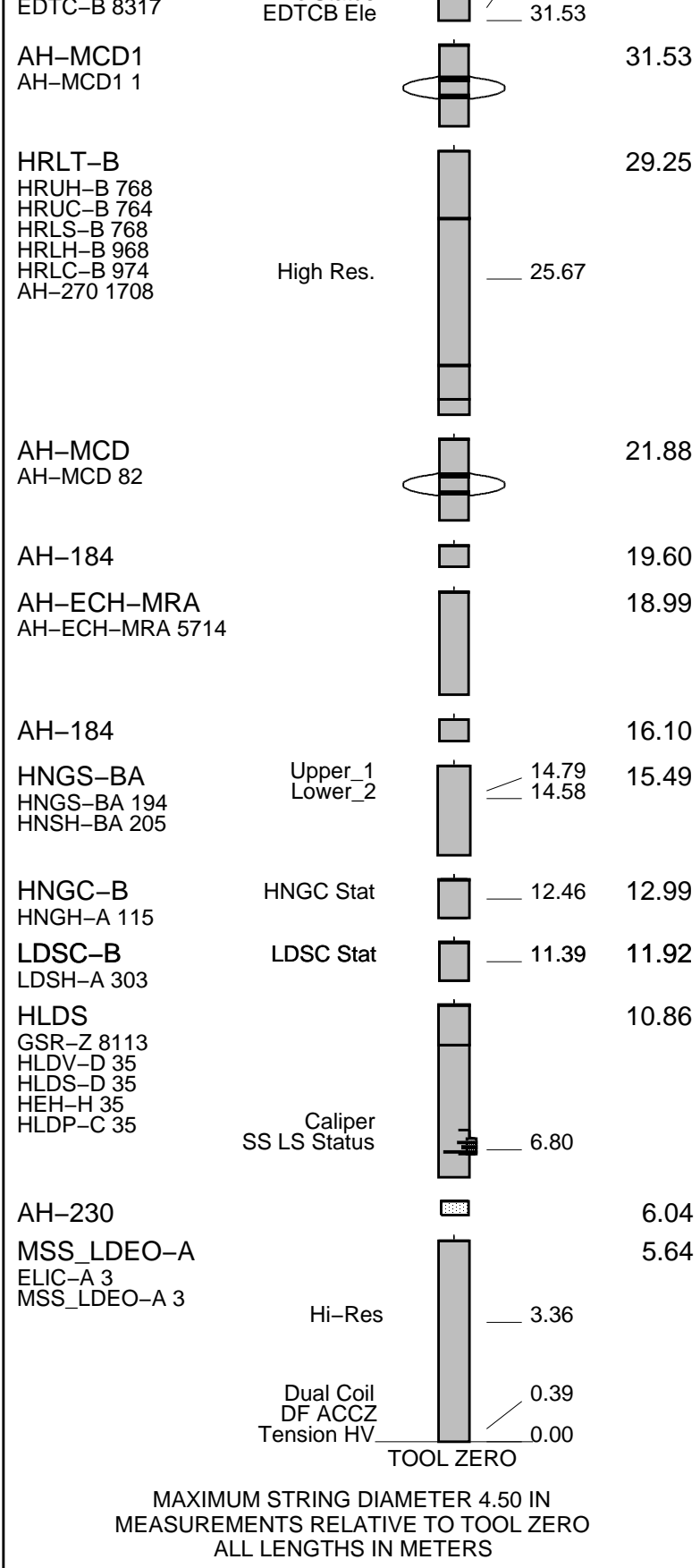
MSS Hi-Res sensor cover found damaged when tools reached surface; not believed to have affected data quality.

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

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
<b>SURFACE EQUIPMENT</b>	
GSR-U 616008 WITM (EDTS)-A	

RUN 1	RUN 2
<b>DOWNHOLE EQUIPMENT</b>	
LEH-MT 101	34.91
LEH-MT 101 101	
AH-369 MDSB_EDTC Mud Tempe CTEM	 33.51 32.45 31.88
EDTC-B EDTH-B 8303 Gamma Ray EFTB DIAG TelStatus	 33.95 33.51



Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	OP	ID		MD	MD	

Kelly Bushing Elevation

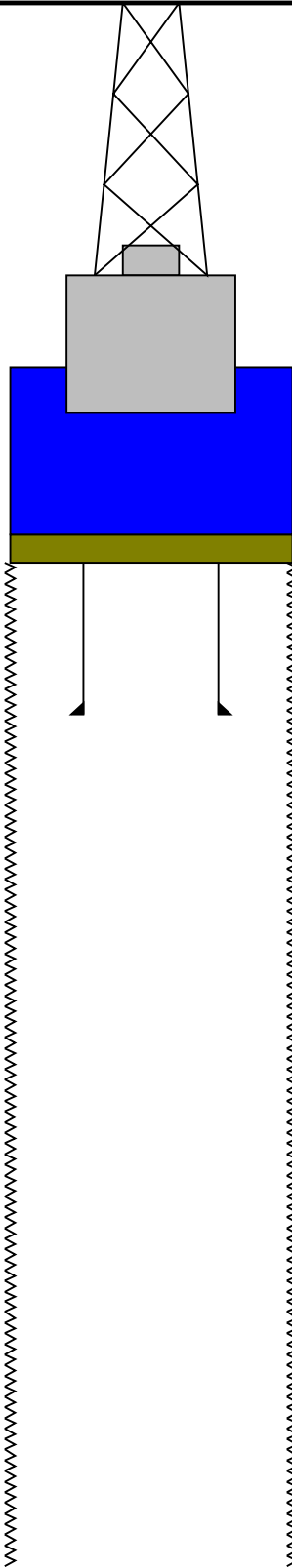
Derrick Floor Elevation

Mean Sea Level

-348.1

-348.1

-337.1



0.0

11.438

4.000

Sea Floor

83.0

5.500

4.000

Bit

547.1

11.438

Total Depth - Driller



## Downlog 1:200 Scale

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 346, Site U1427A

### Input DLIS Files

DEFAULT	Flip_MSS_LDEO_LDL_018LUP	PRODUCER	09-Sep-2013 11:28	854.0 M	292.6 M
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### Output DLIS Files

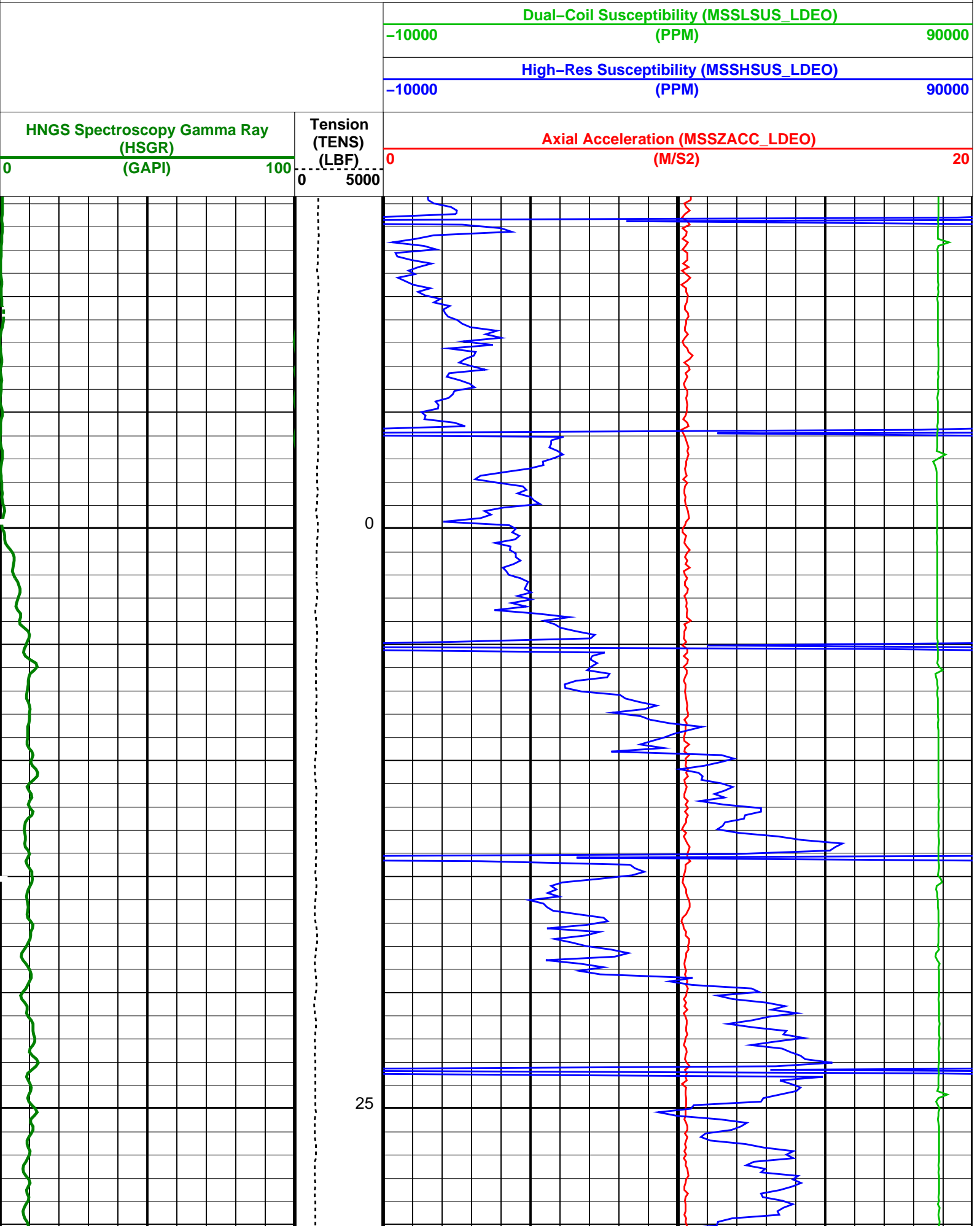
DEFAULT	MSS_LDEO_LDL_NGS_019PUP	FN:17	PRODUCER	09-Sep-2013 11:29	514.3 M	-14.3 M
CLIENT	MSS_LDEO_LDL_NGS_019PUC	FN:18	CUSTOMER	09-Sep-2013 11:29	514.3 M	-14.3 M

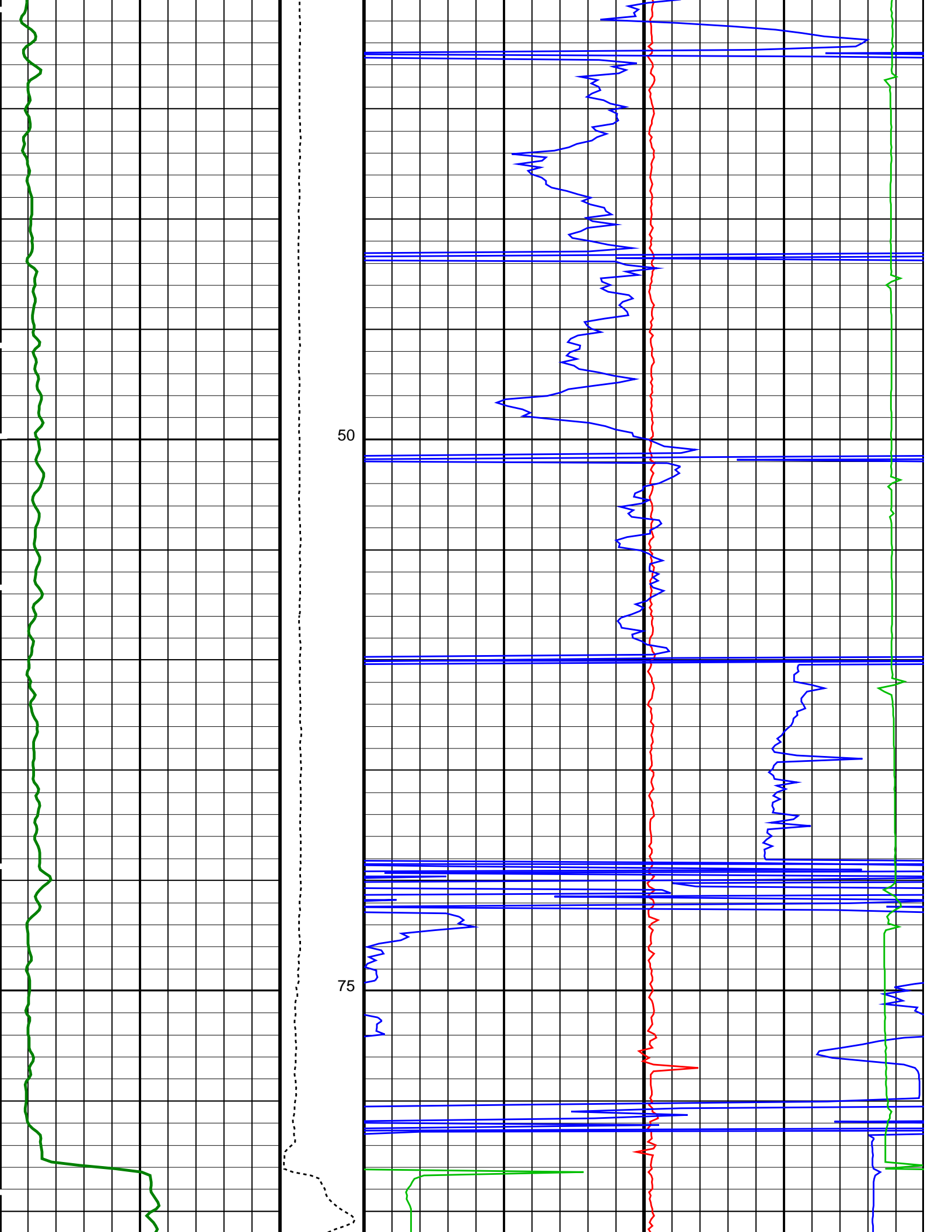
### OP System Version: 19C0-187

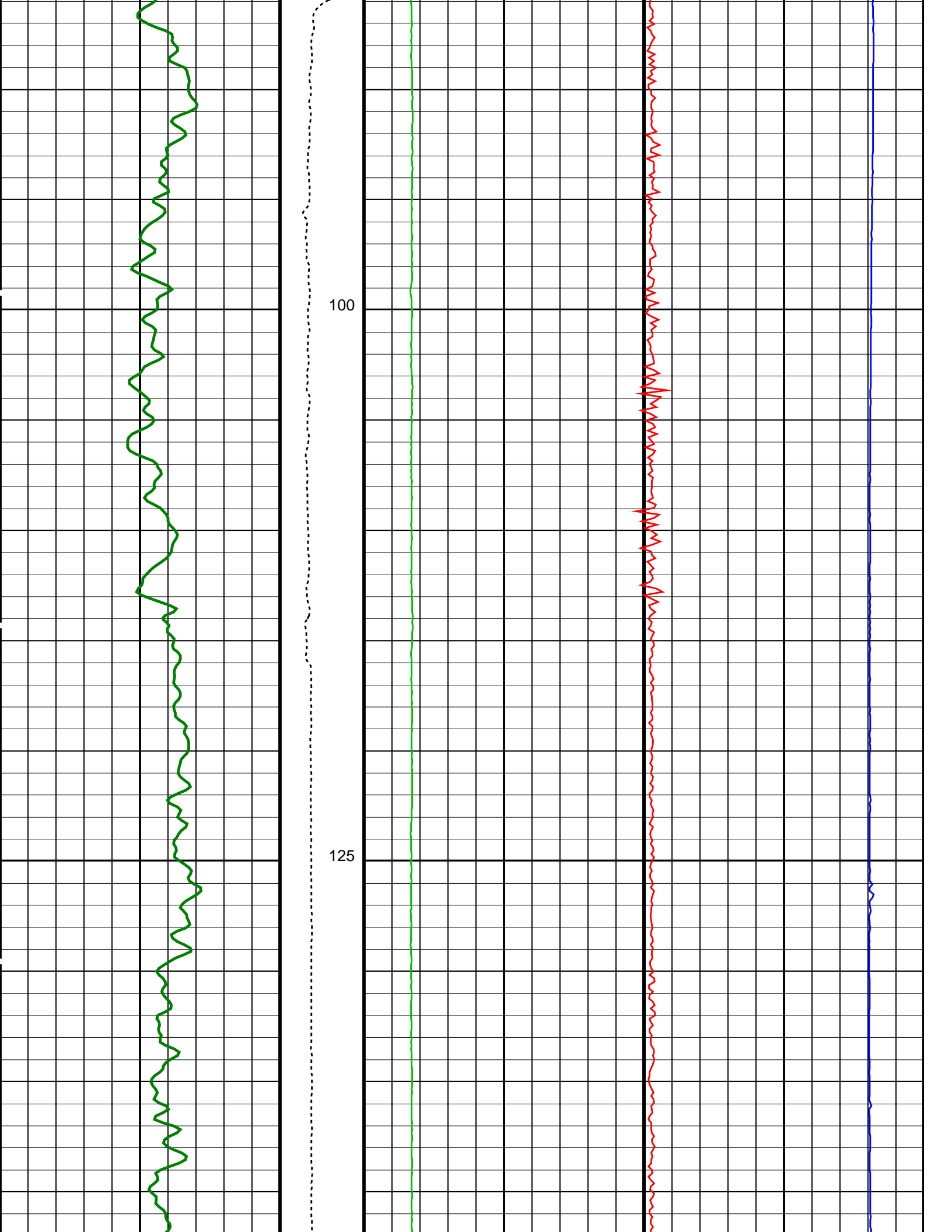
MSS_LDEO-A	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	HRLT-B	19C0-187

PIP SUMMARY

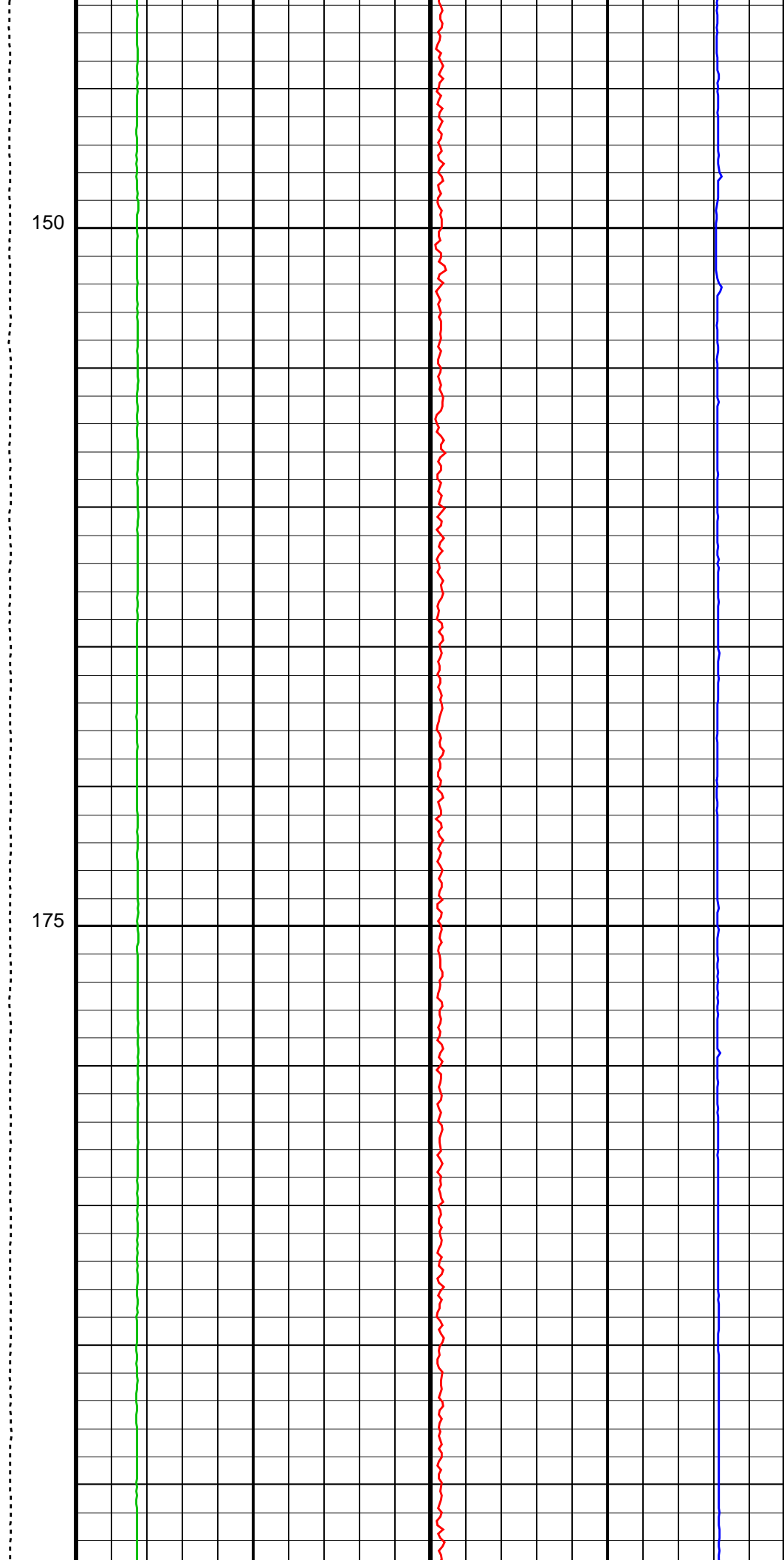
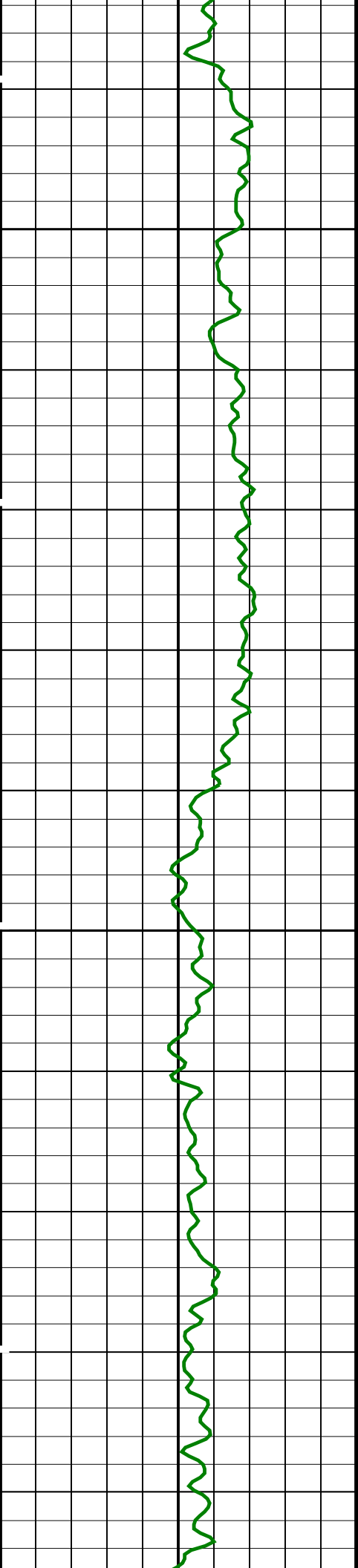
Time Mark Every 60 S

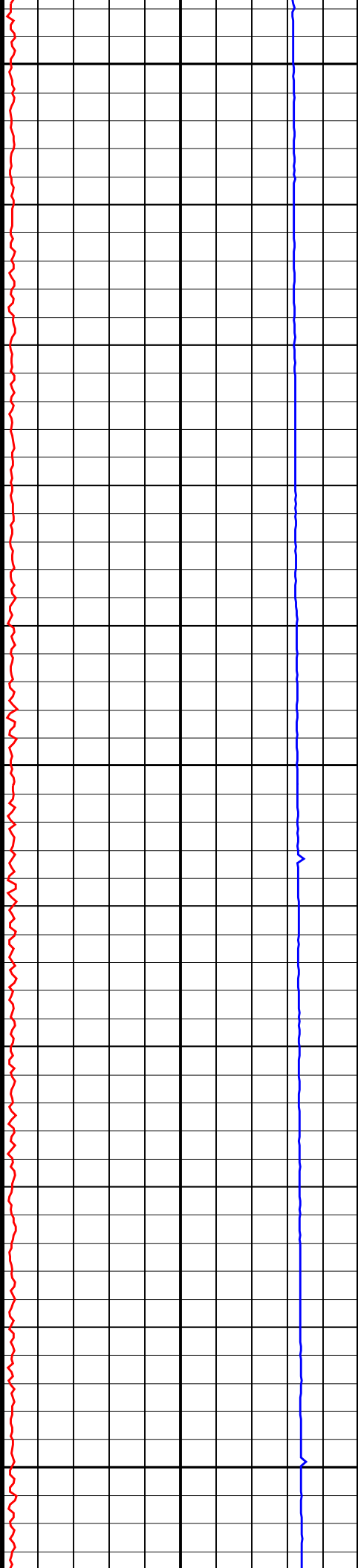
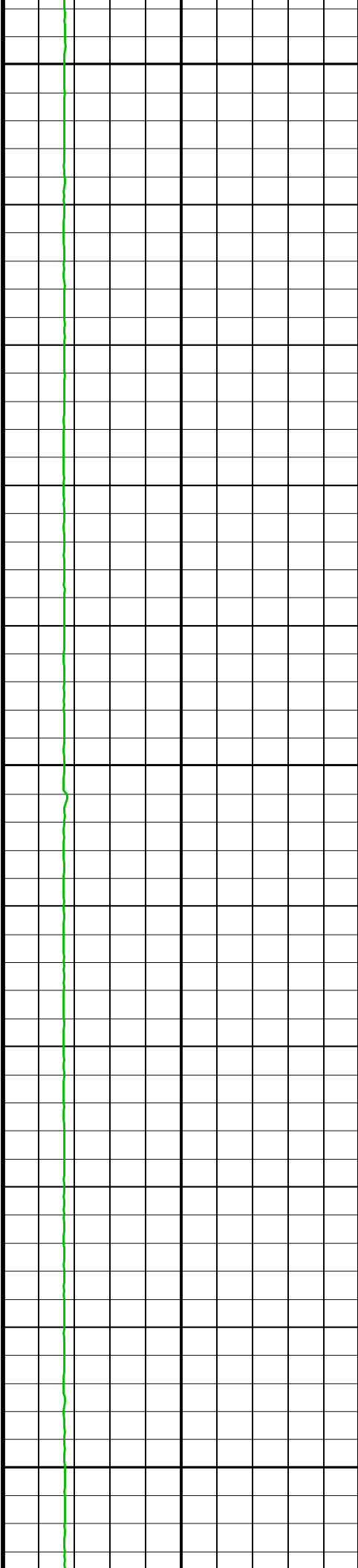
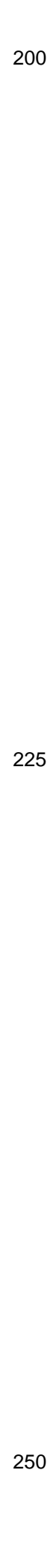
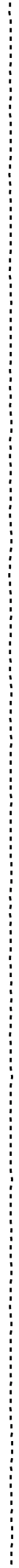
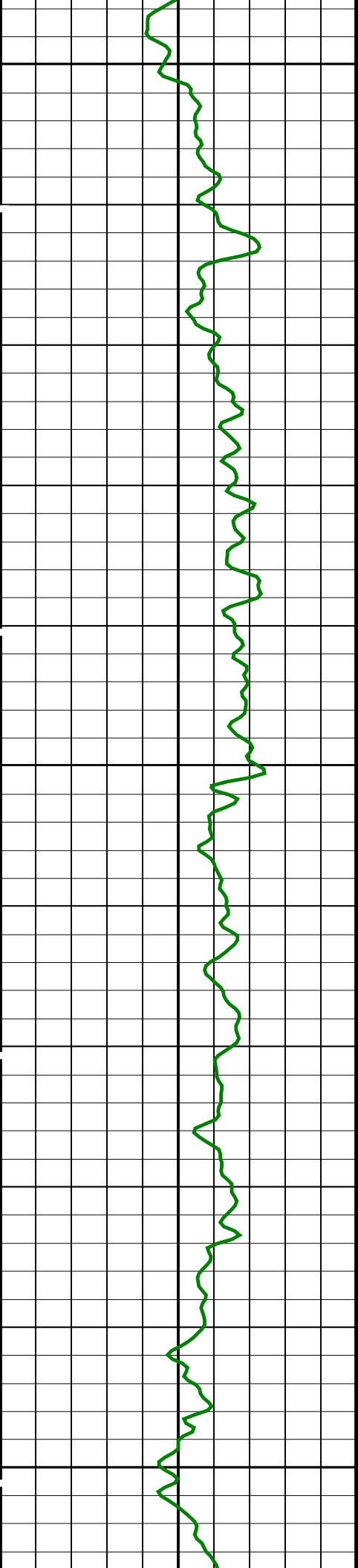


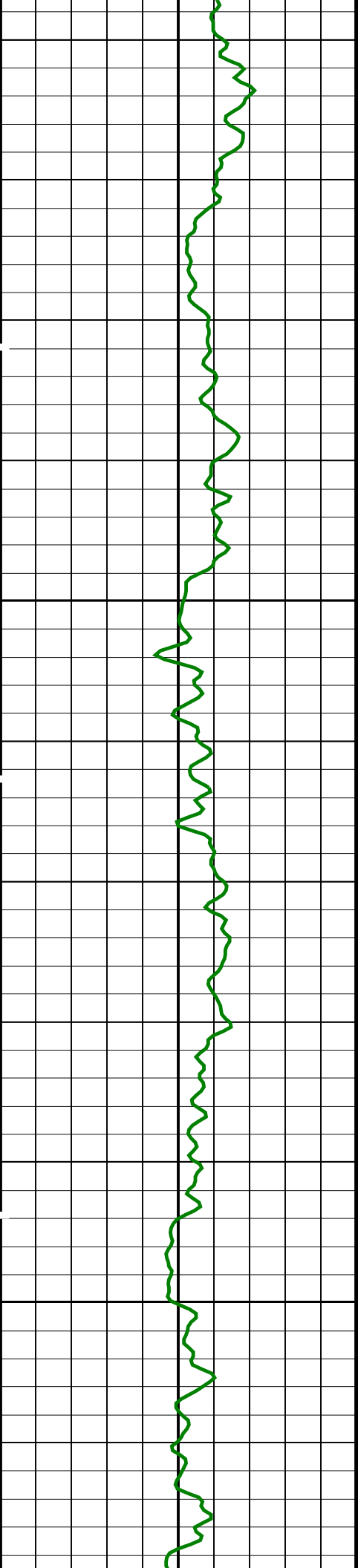






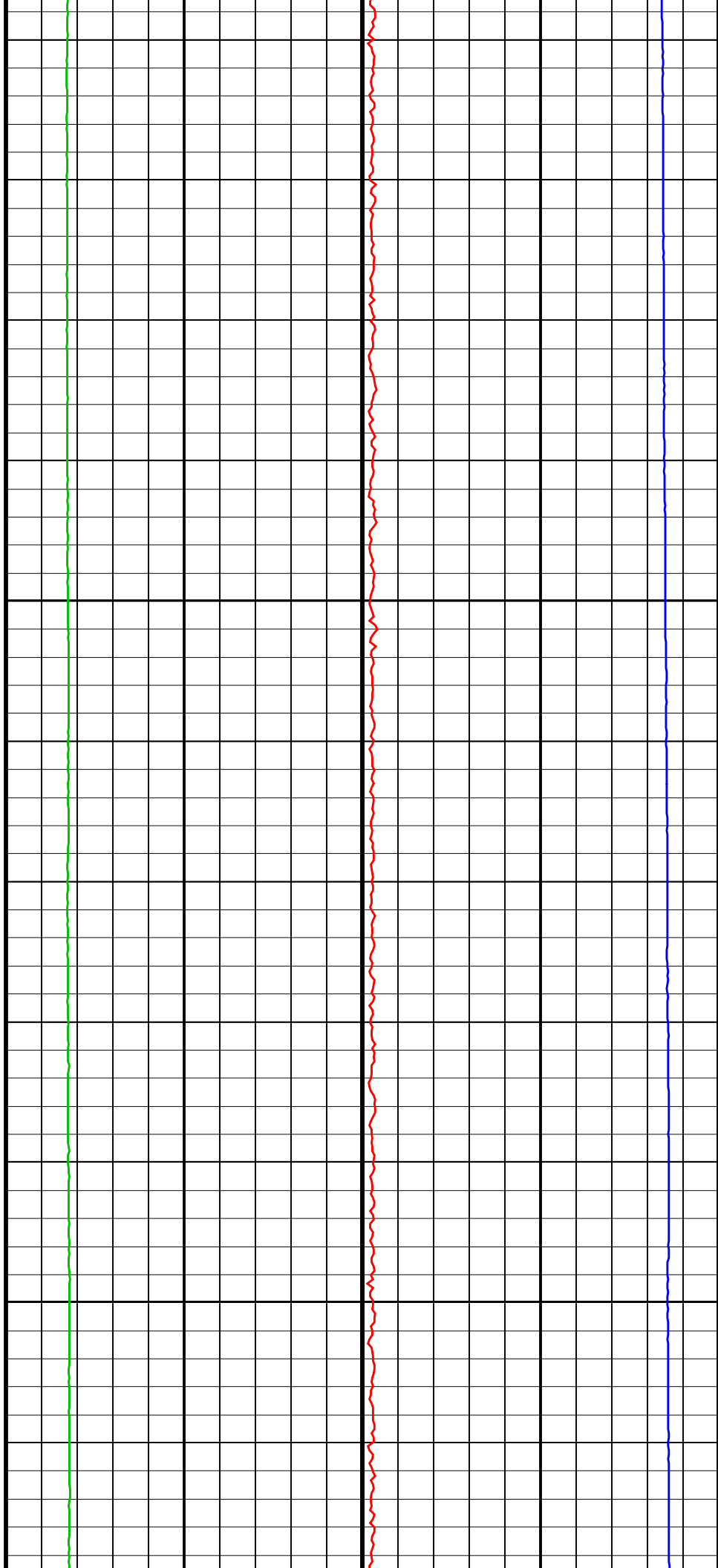


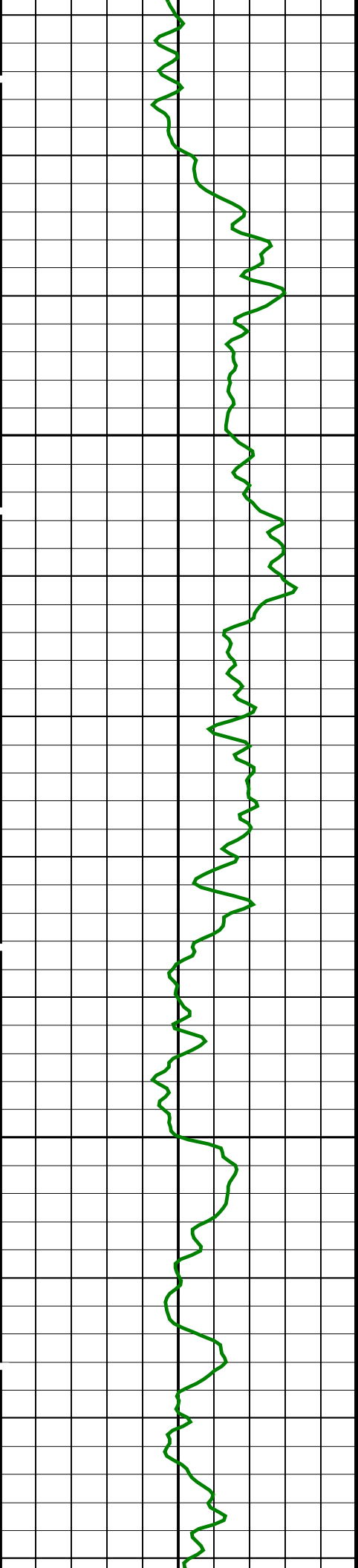




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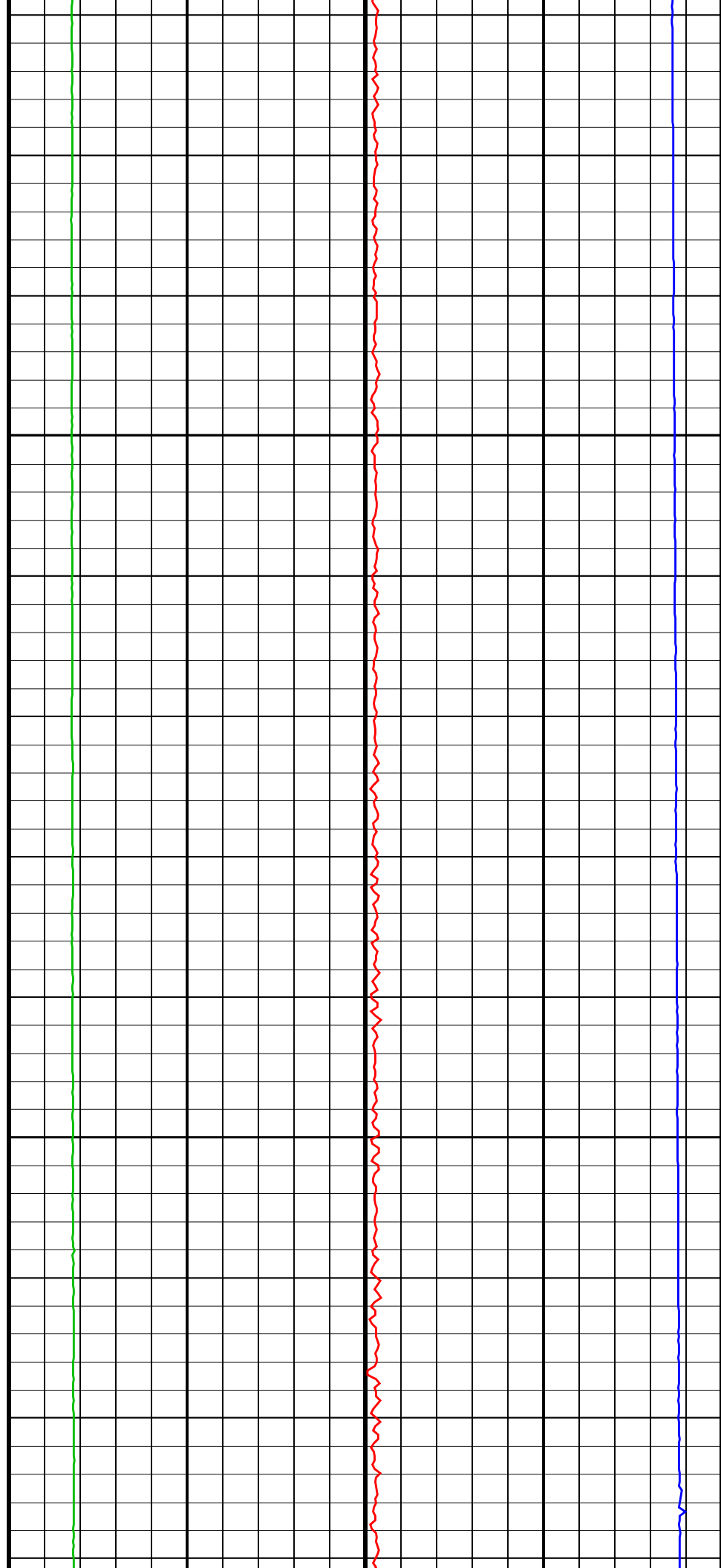
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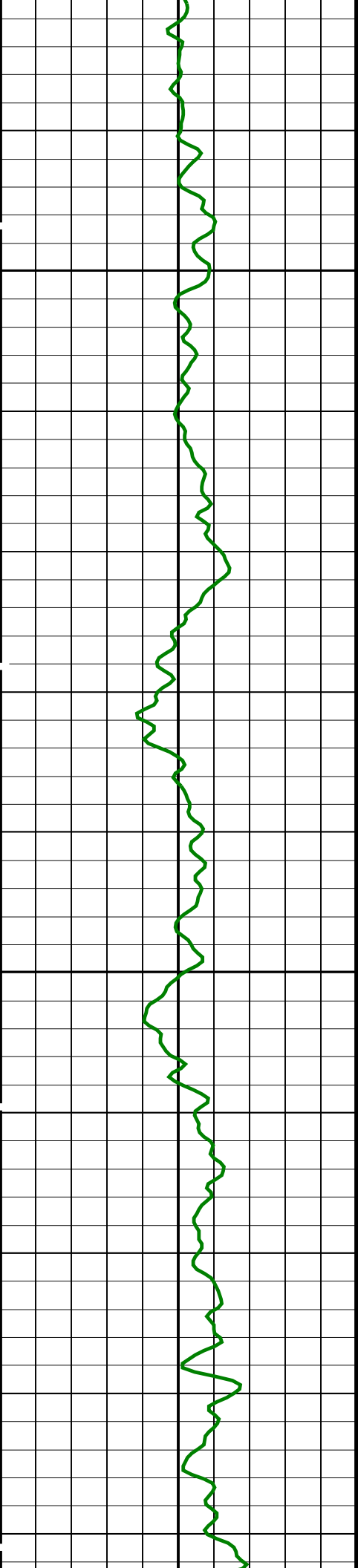




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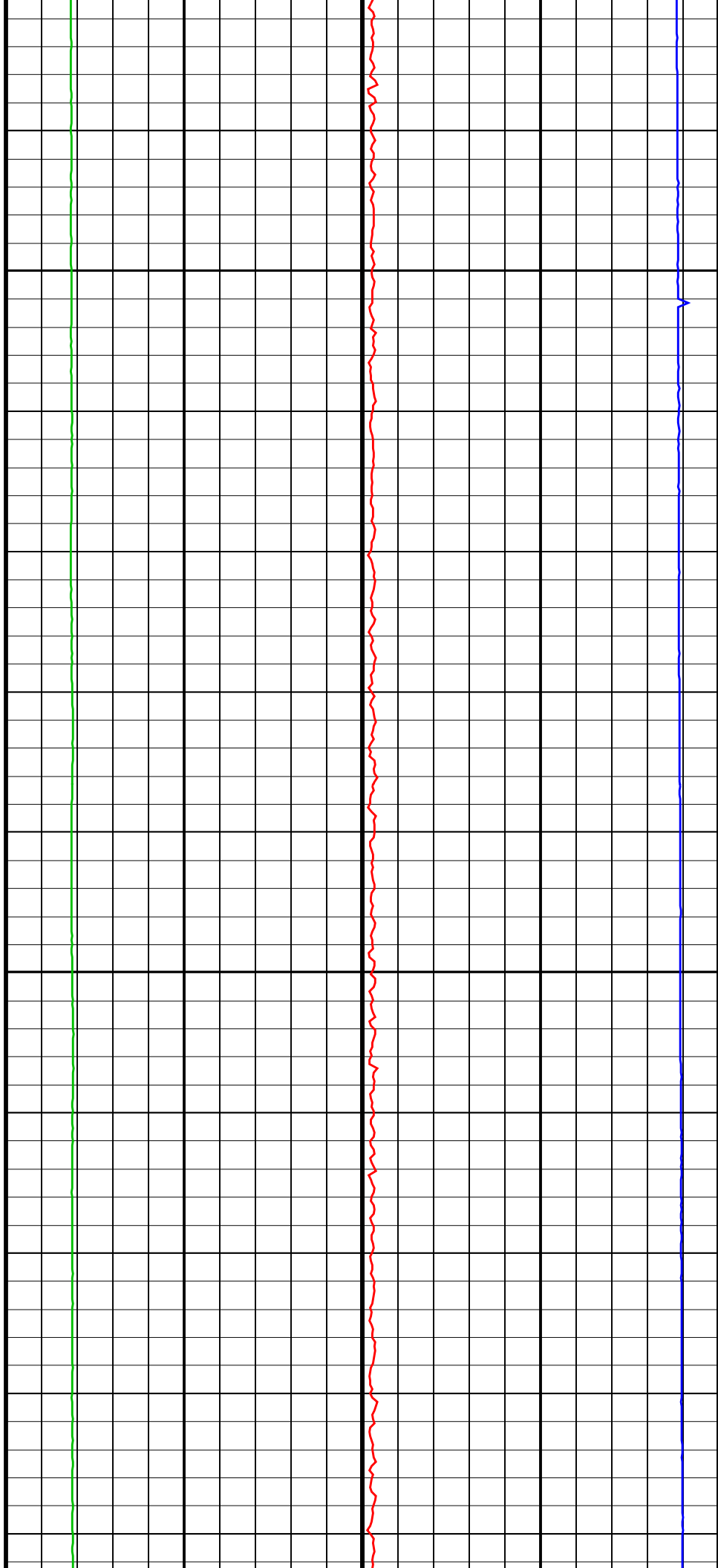
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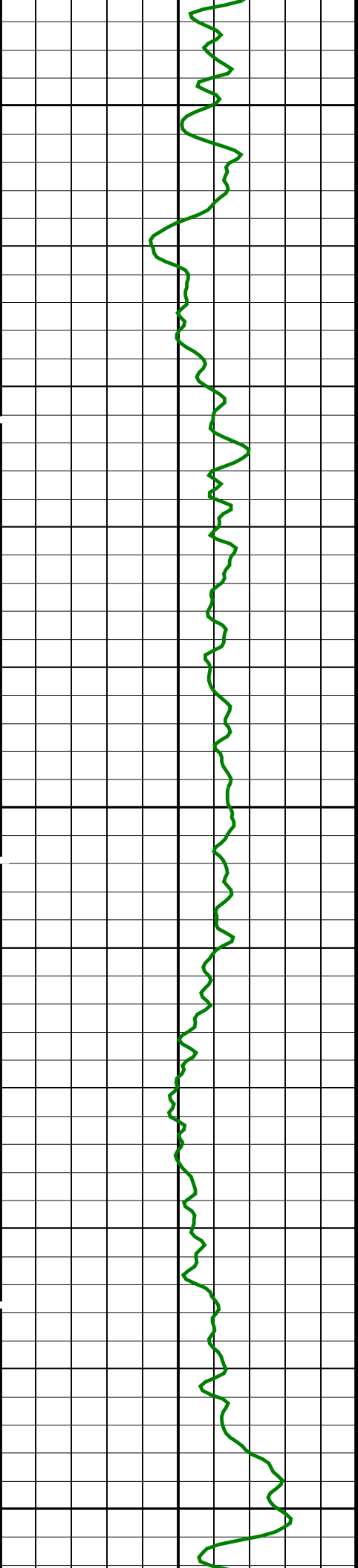




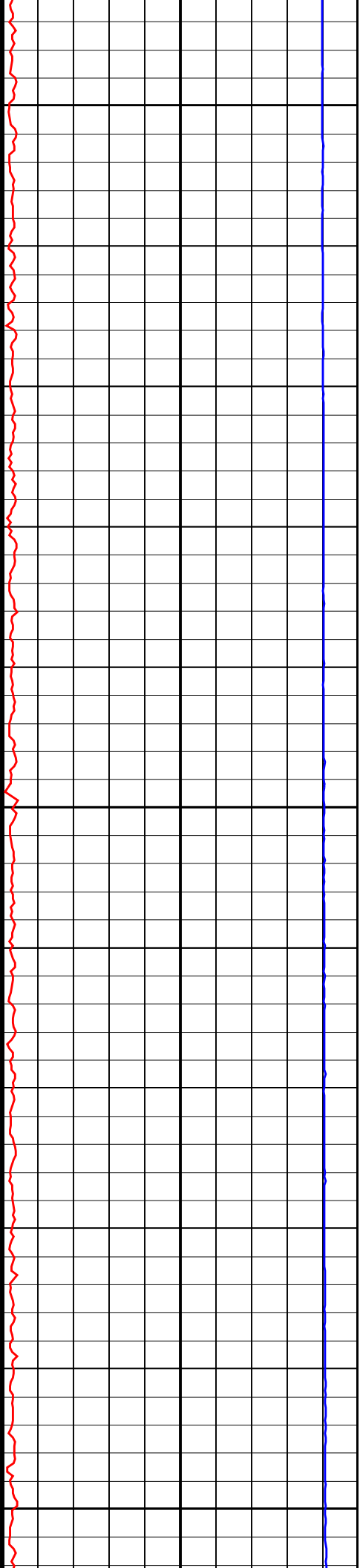
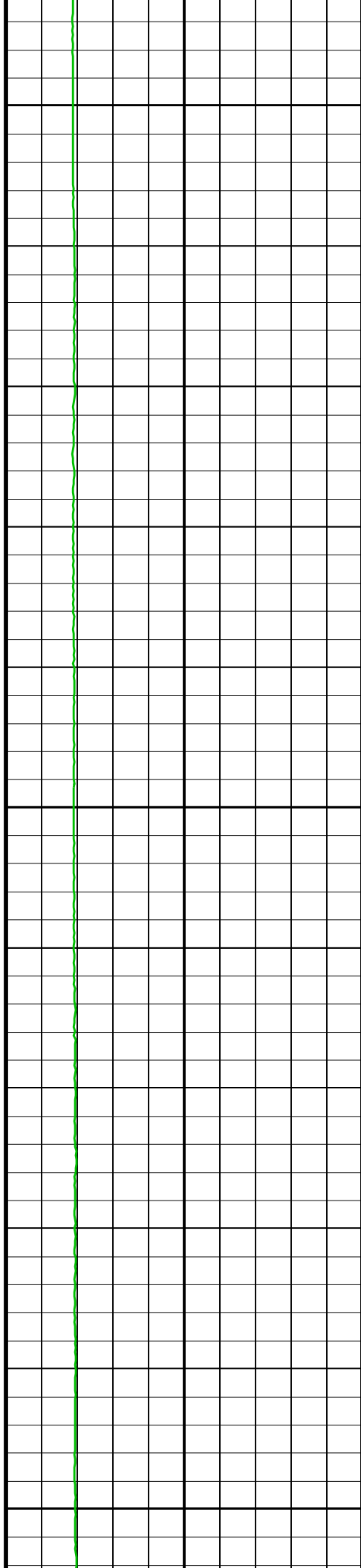
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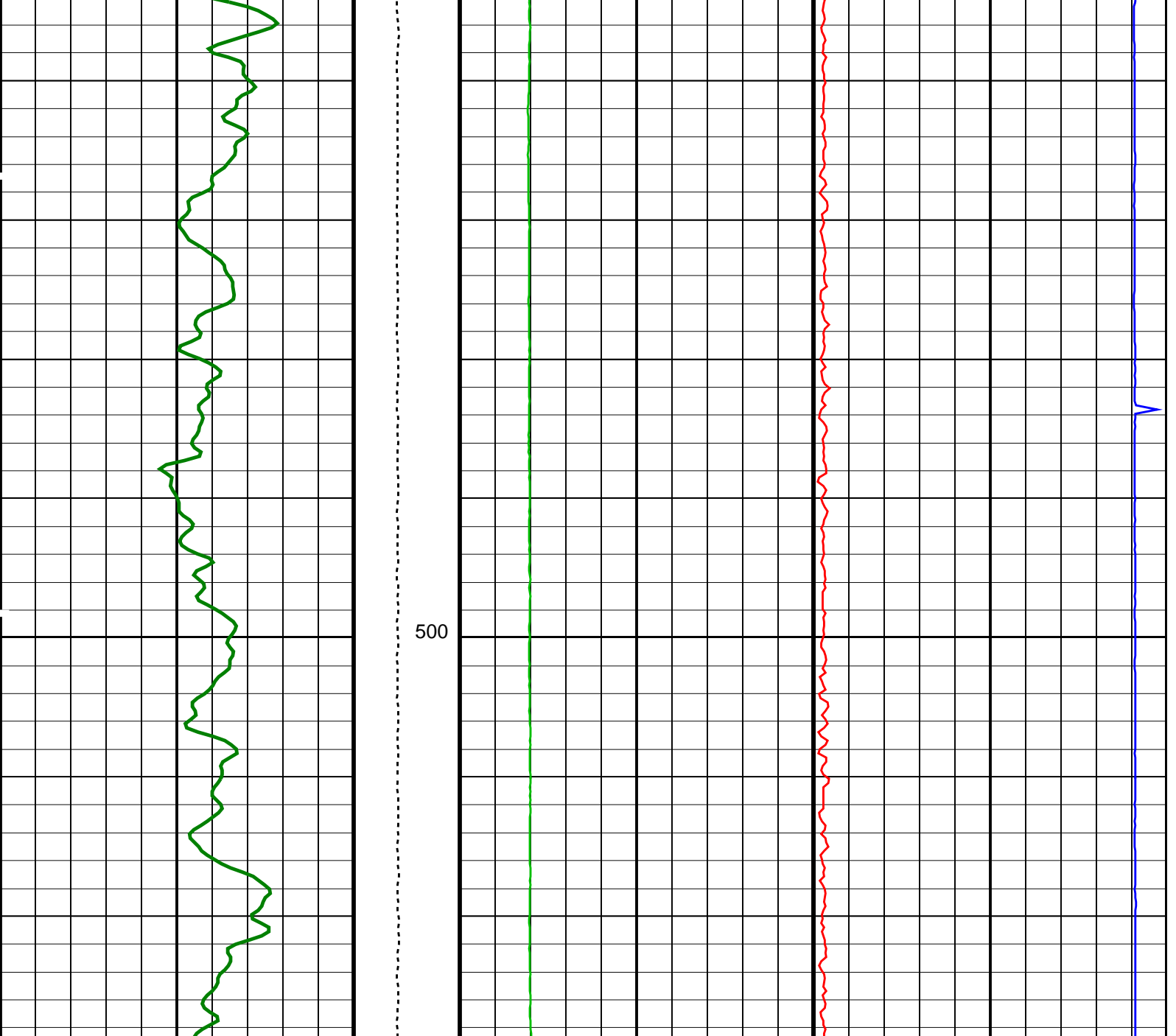
400





425  
450  
475





<p><b>HNGS Spectroscopy Gamma Ray (HSGR)</b> (GAPI)</p> <p>0 100</p>	<p><b>Tension (TENS)</b> (LBF)</p> <p>0 5000</p>	<p><b>Axial Acceleration (MSSZACC_LDEO)</b> (M/S2)</p> <p>0 20</p>
		<p><b>High-Res Susceptibility (MSSHUSUS_LDEO)</b> (PPM)</p> <p>-10000 90000</p>
		<p><b>Dual-Coil Susceptibility (MSSLUSUS_LDEO)</b> (PPM)</p> <p>-10000 90000</p>

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HNGS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 IN

CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00762735	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.968028	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.969634	
HRLT-B: High Resolution Laterolog Array - B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-339.6	M
PP	Playback Processing	RECOMPUTE	

Format: MSS\_Logging    Vertical Scale: 1:200    Graphics File Created: 09-Sep-2013 11:29

### OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	HRLT-B	19C0-187
EDTC-B	SKK-5169-EDTCB		

#### Input DLIS Files

DEFAULT	Flip_MSS_LDEO_LDL_018LUP	PRODUCER	09-Sep-2013 11:28	854.0 M	292.6 M
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#### Output DLIS Files

DEFAULT	MSS_LDEO_LDL_NGS_019PUP	FN:17	PRODUCER	09-Sep-2013 11:29	
CLIENT	MSS_LDEO_LDL_NGS_019PUC	FN:18	CUSTOMER	09-Sep-2013 11:29	



**Repeat Pass  
1:200 Scale**

MAXIS Field Log

Company: Lamont Doherty Earth Observatory    Well: Expedition 346, Site U1427A

#### Input DLIS Files

DEFAULT	MSS_LDEO_LDL_NGS_007LUP	FN:6	PRODUCER	08-Sep-2013 00:35	887.0 M	800.1 M
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#### Output DLIS Files

DEFAULT	MSS_LDEO_LDL_NGS_020PUP	FN:19	PRODUCER	09-Sep-2013 11:33	547.1 M	460.6 M
CLIENT	MSS_LDEO_LDL_NGS_020PUC	FN:20	CUSTOMER	09-Sep-2013 11:33	547.1 M	460.6 M

### OP System Version: 19C0-187



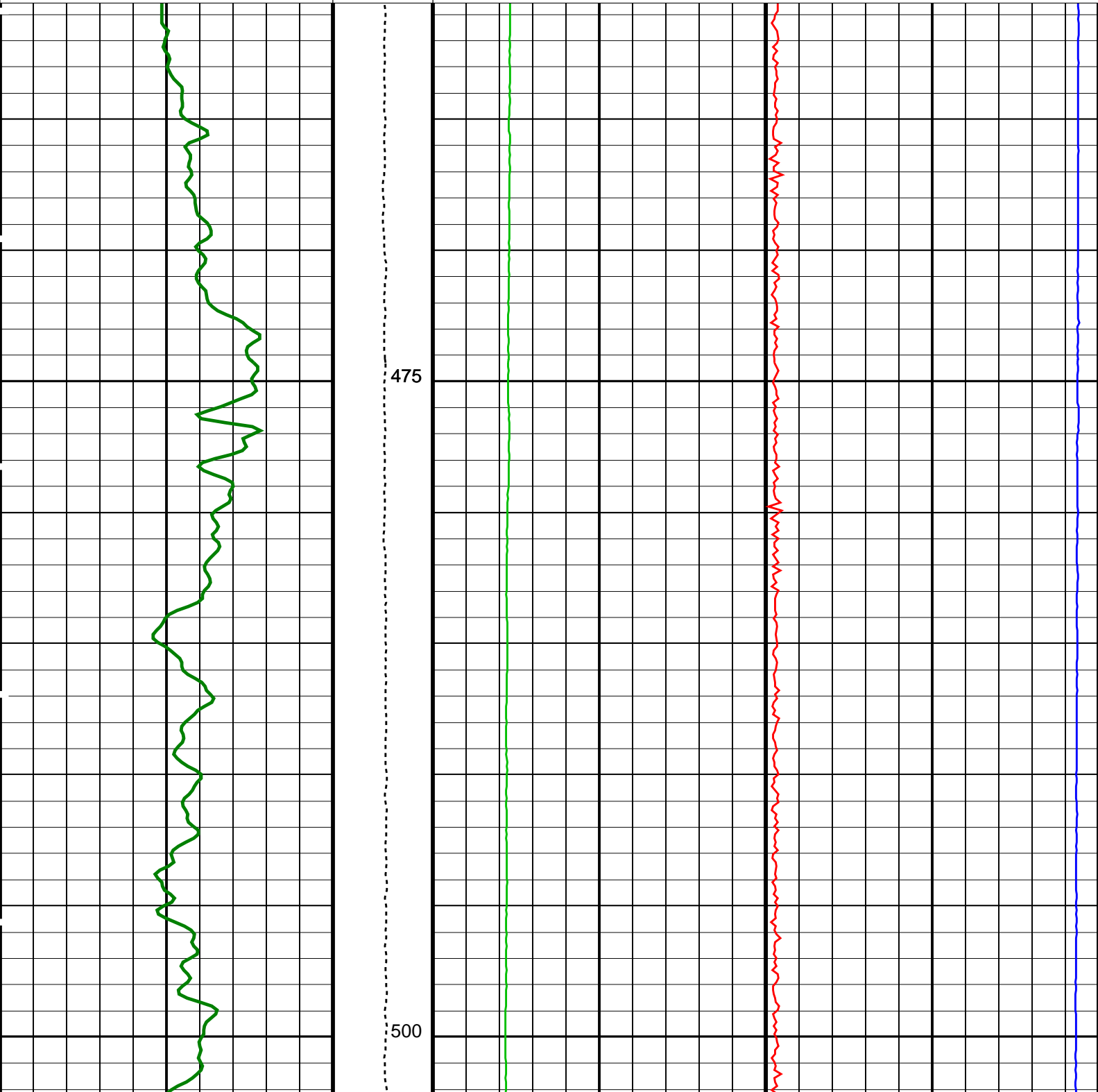
MSS\_LDEO-A 19C0-187  
 LDSC-B 19C0-187  
 HNGS-BA 19C0-187  
 EDTC-B SKK-5169-EDTCB

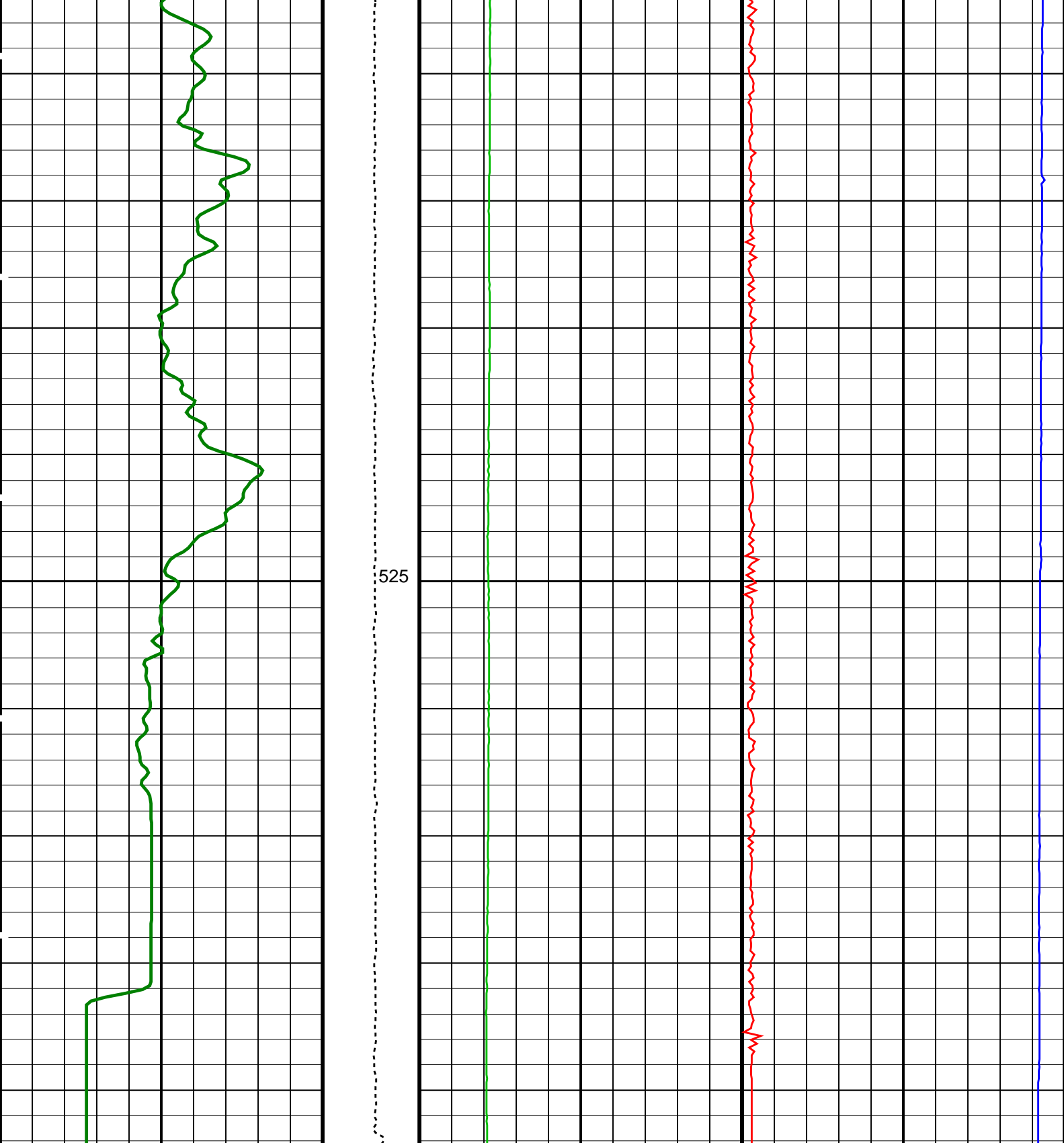
HLDS 19C0-187  
 HNGC-B 19C0-187  
 HRLT-B 19C0-187

PIP SUMMARY

Time Mark Every 60 S

		Dual-Coil Susceptibility (MSSLSUS_LDEO)	
		-10000	90000
		(PPM)	
		High-Res Susceptibility (MSSHSUS_LDEO)	
		-10000	90000
		(PPM)	
HNGS Spectroscopy Gamma Ray (HSGR)	Tension (TENS) (LBF)	Axial Acceleration (MSSZACC_LDEO)	
0 (GAPI) 100	0 5000	0	20
		(M/S <sup>2</sup> )	





525

<p><b>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</b></p> <p>0 100</p>	<p><b>Tension (TENS) (LBF)</b></p> <p>0 5000</p>	<p><b>Axial Acceleration (MSSZACC_LDEO) (M/S2)</b></p> <p>0 20</p>
		<p><b>High-Res Susceptibility (MSSHUSUS_LDEO) (PPM)</b></p> <p>-10000 90000</p>
		<p><b>Dual-Coil Susceptibility (MSSLSUS_LDEO) (PPM)</b></p> <p>-10000 90000</p>

**PIP SUMMARY**

# Parameters

DLIS Name	Description	Value	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00353669	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.936615	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	-0.988183	
<b>HRLT-B: High Resolution Laterolog Array - B</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
<b>EDTC-B: Enhanced DTS Cartridge</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
<b>System and Miscellaneous</b>			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-339.6	M
PP	Playback Processing	RECOMPUTE	

Format: MSS\_Logging    Vertical Scale: 1:200    Graphics File Created: 09-Sep-2013 11:33

## OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	HRLT-B	19C0-187
EDTC-B	SKK-5169-EDTCB		

### Input DLIS Files

DEFAULT	MSS_LDEO_LDL_NGS_007LUP	FN:6	PRODUCER	08-Sep-2013 00:35	887.0 M	800.1 M
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### Output DLIS Files

DEFAULT	MSS_LDEO_LDL_NGS_020PUP	FN:19	PRODUCER	09-Sep-2013 11:33		
CLIENT	MSS_LDEO_LDL_NGS_020PUC	FN:20	CUSTOMER	09-Sep-2013 11:33		



**Main Pass**  
**1:200 Scale**

MAXIS Field Log

### Output DLIS Files

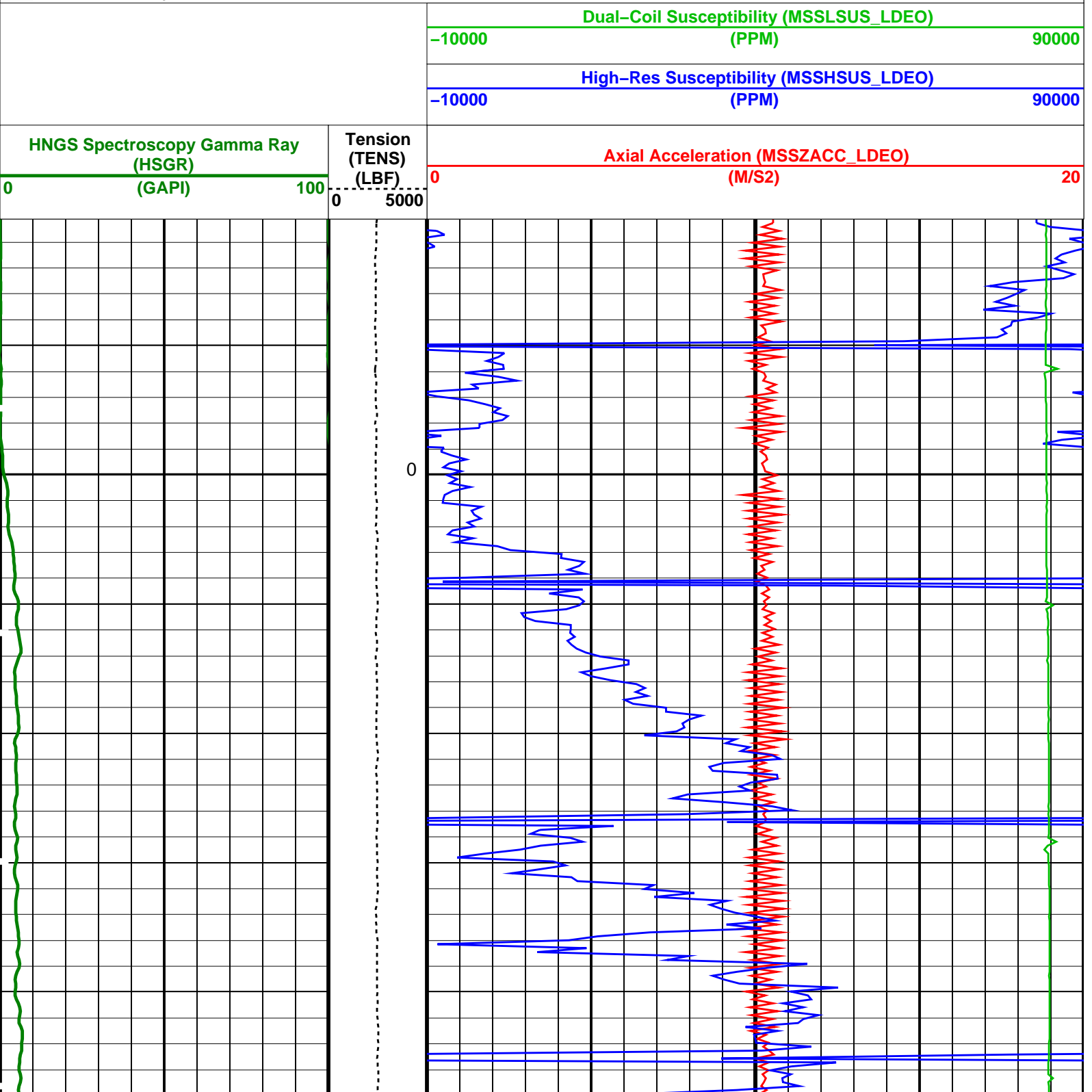
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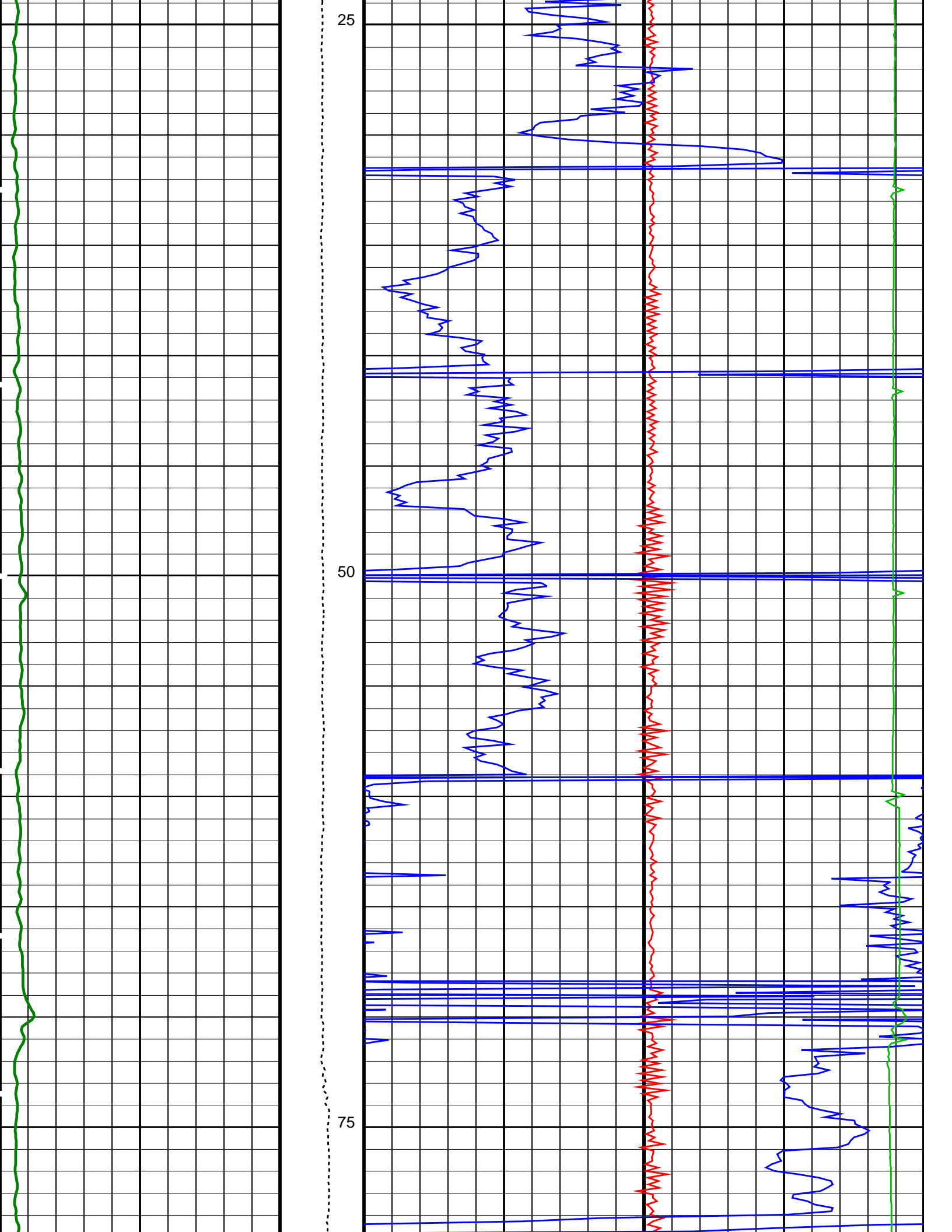
### OP System Version: 19C0-187

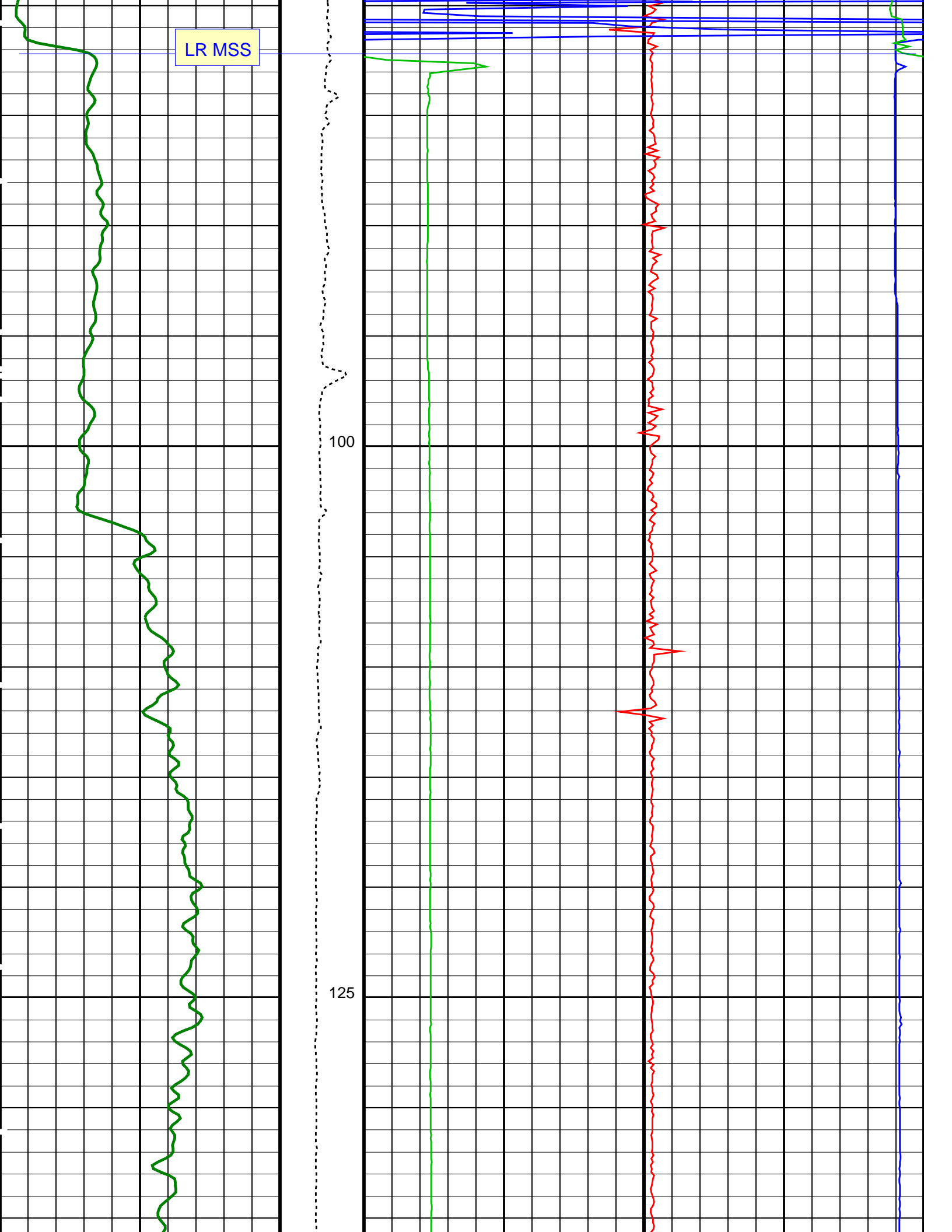
MSS_LDEO-A	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	HRLT-B	19C0-187
EDTC-B	SKK-5169-EDTCB		

#### PIP SUMMARY

Time Mark Every 60 S



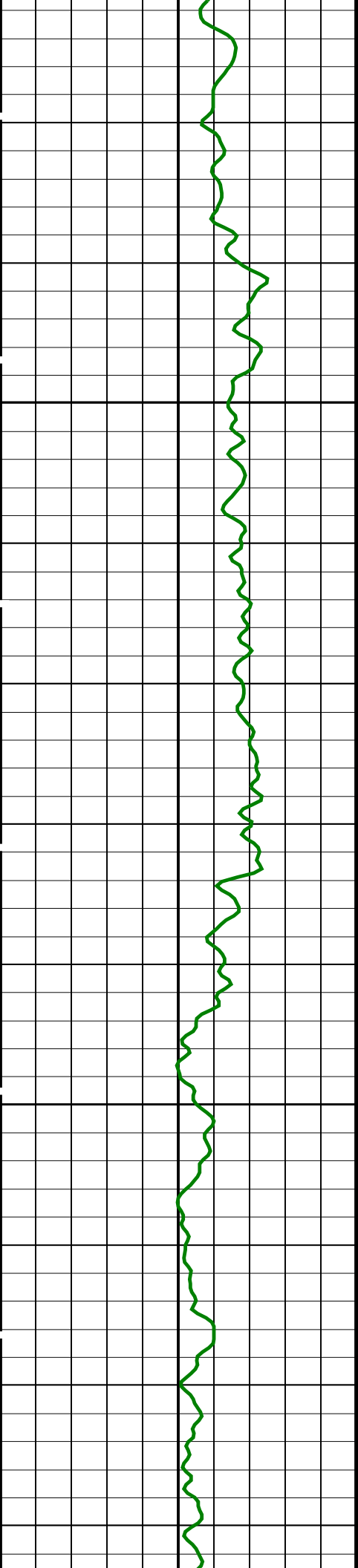




LR MSS

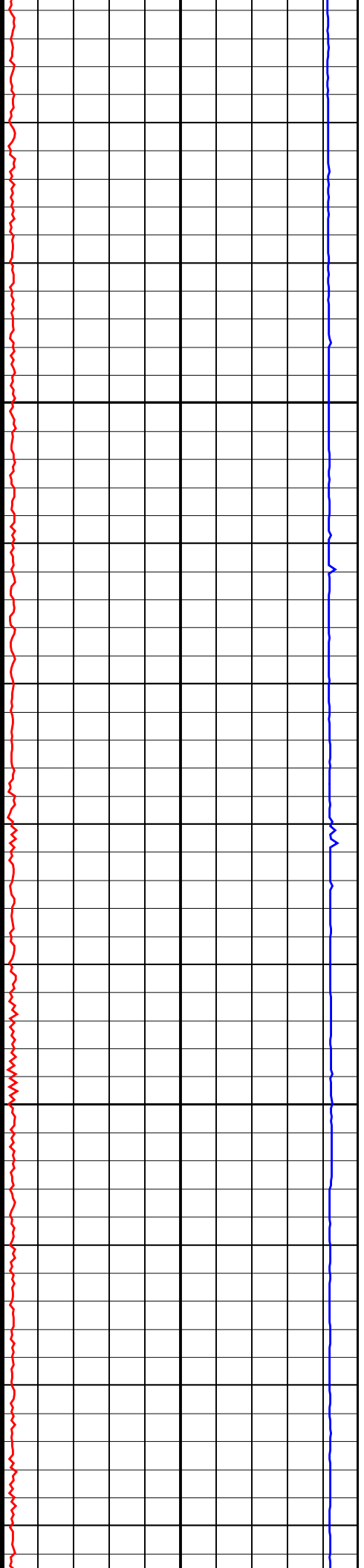
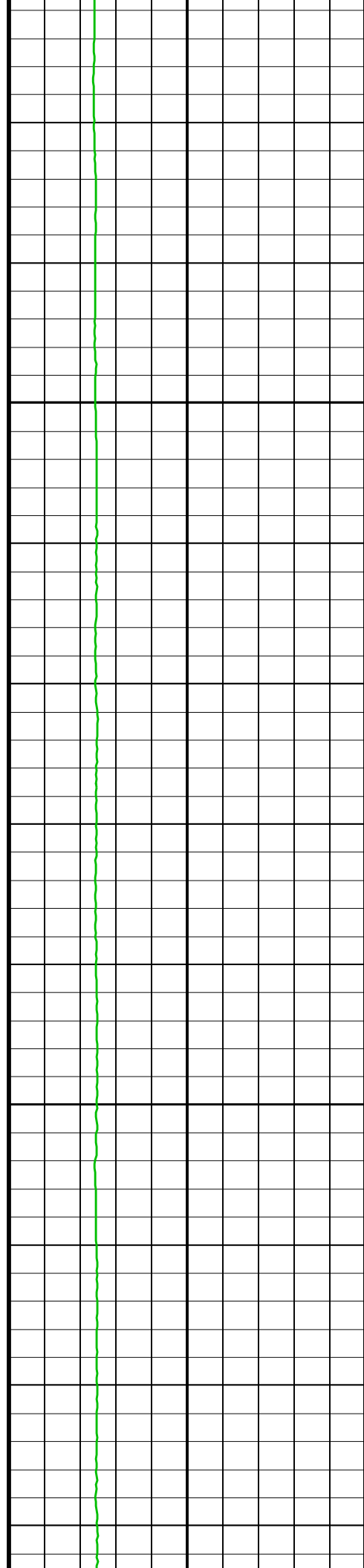
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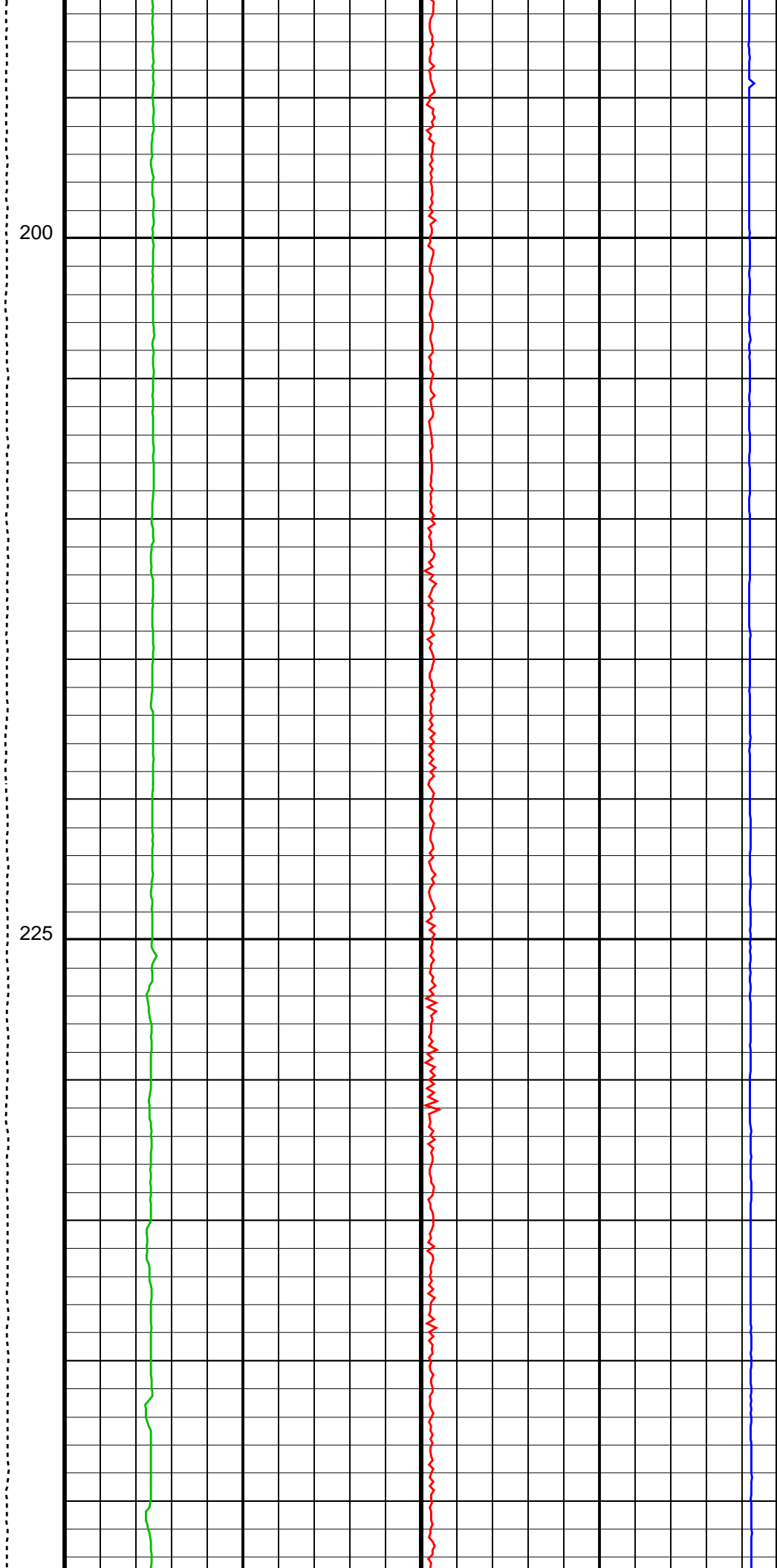
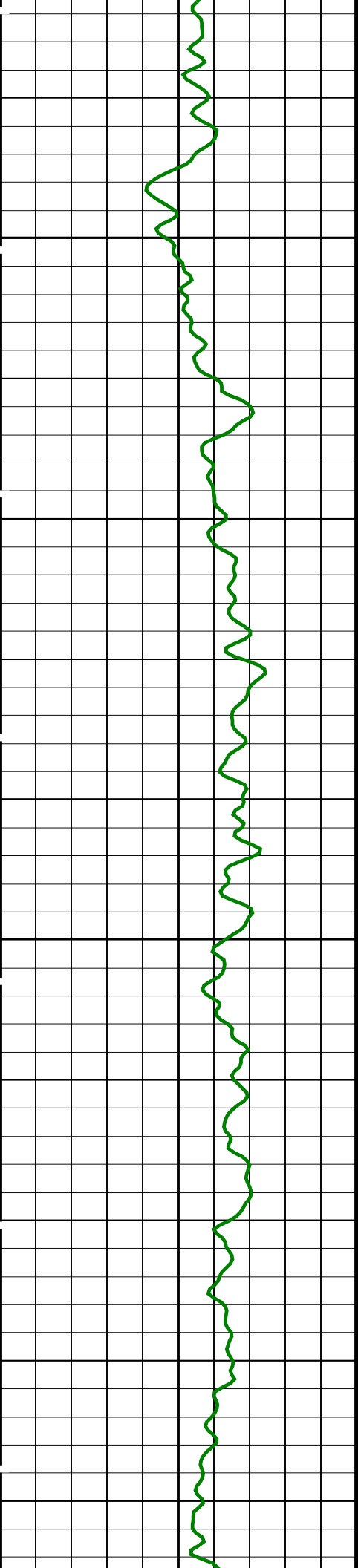
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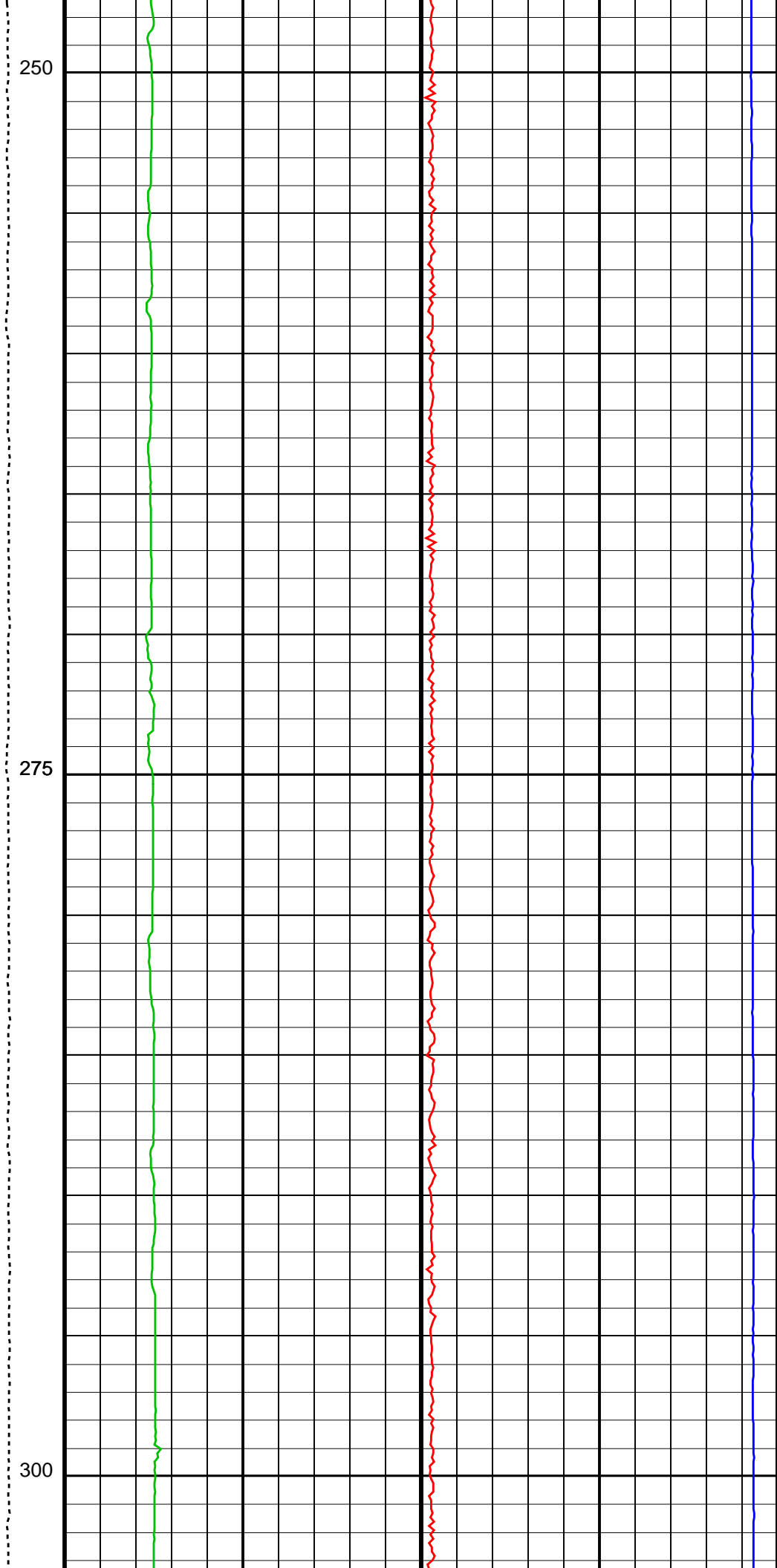
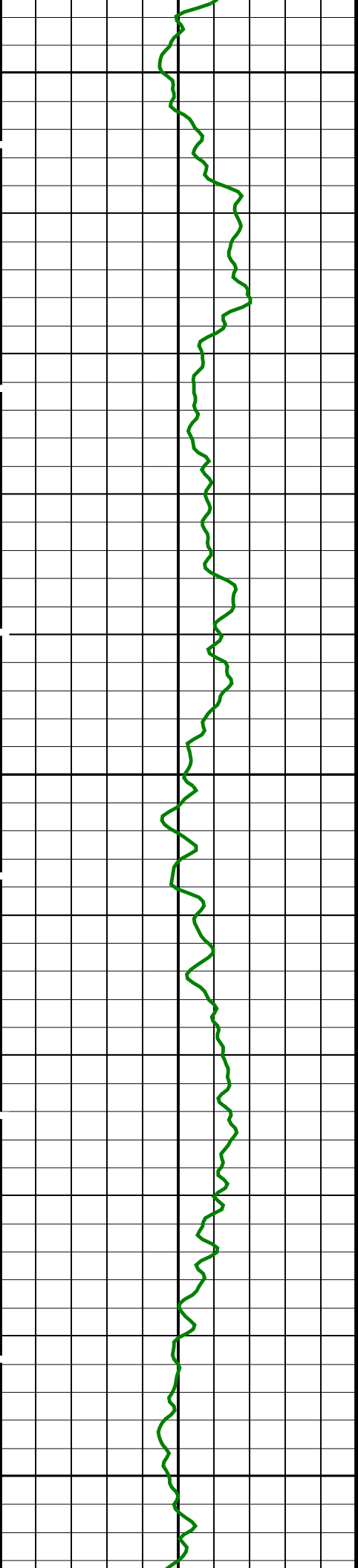
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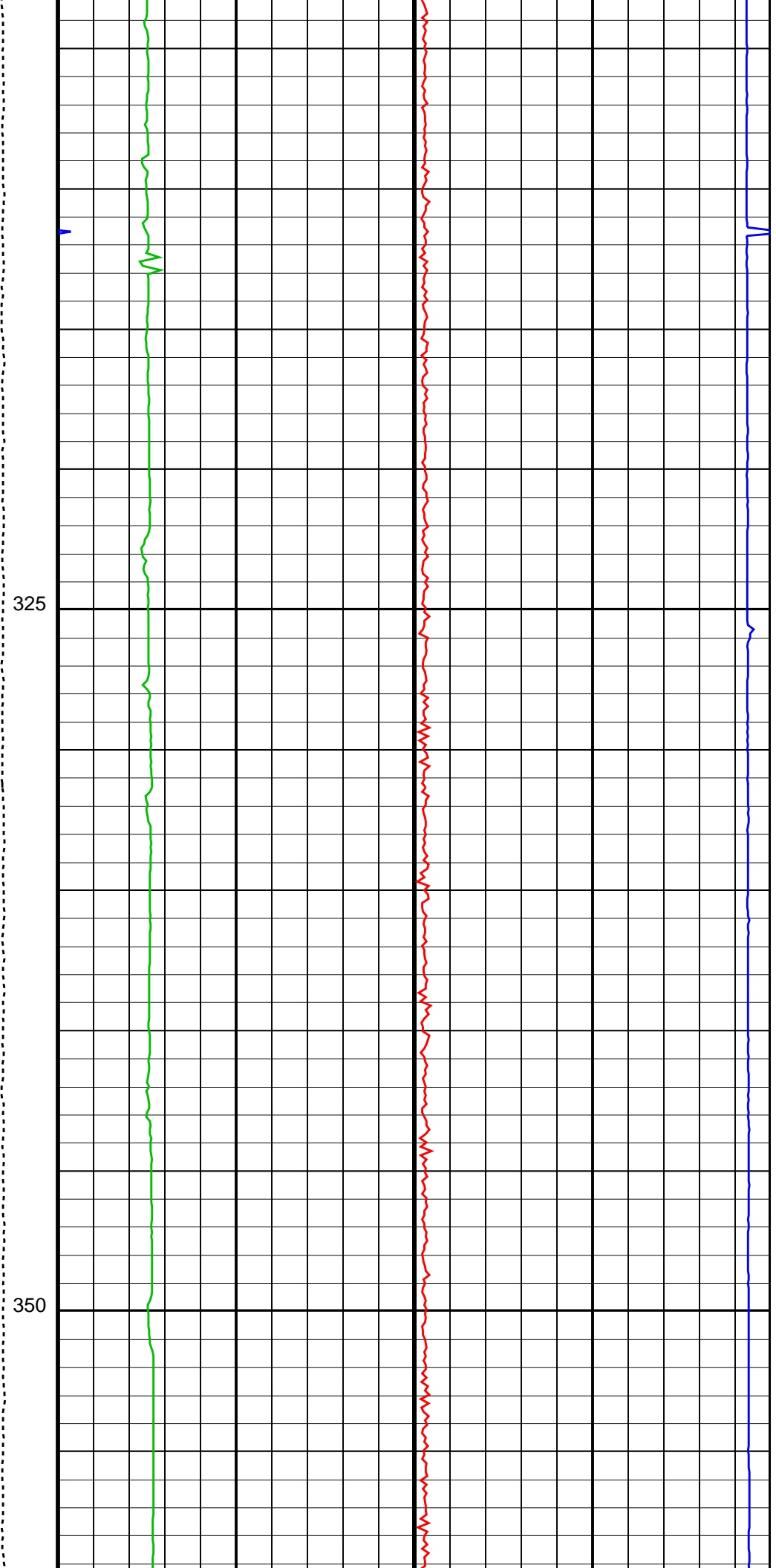
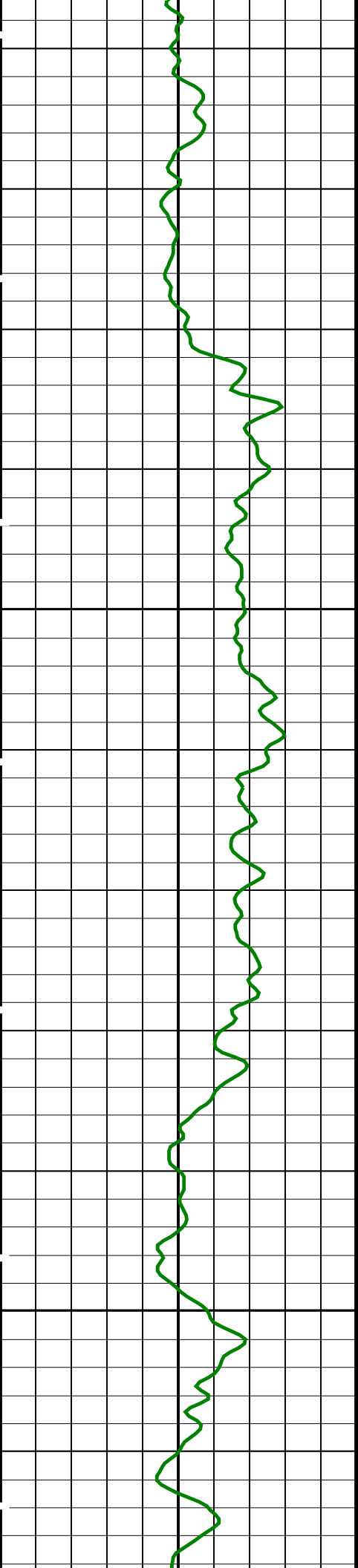
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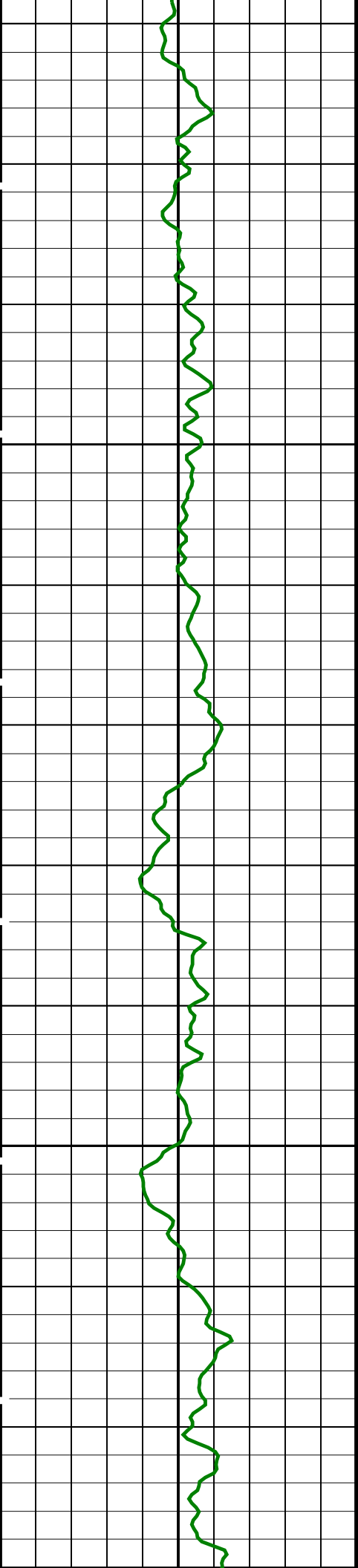






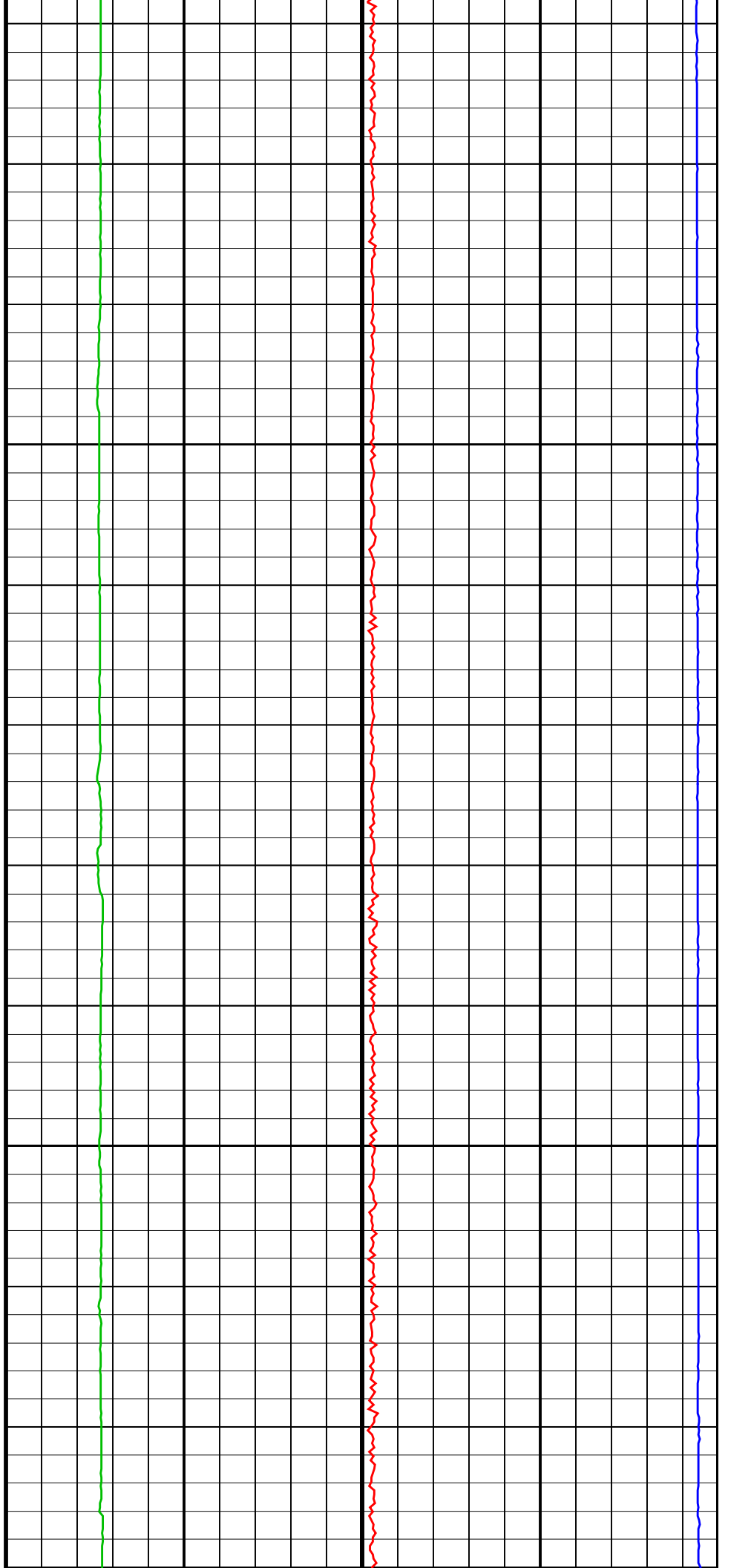


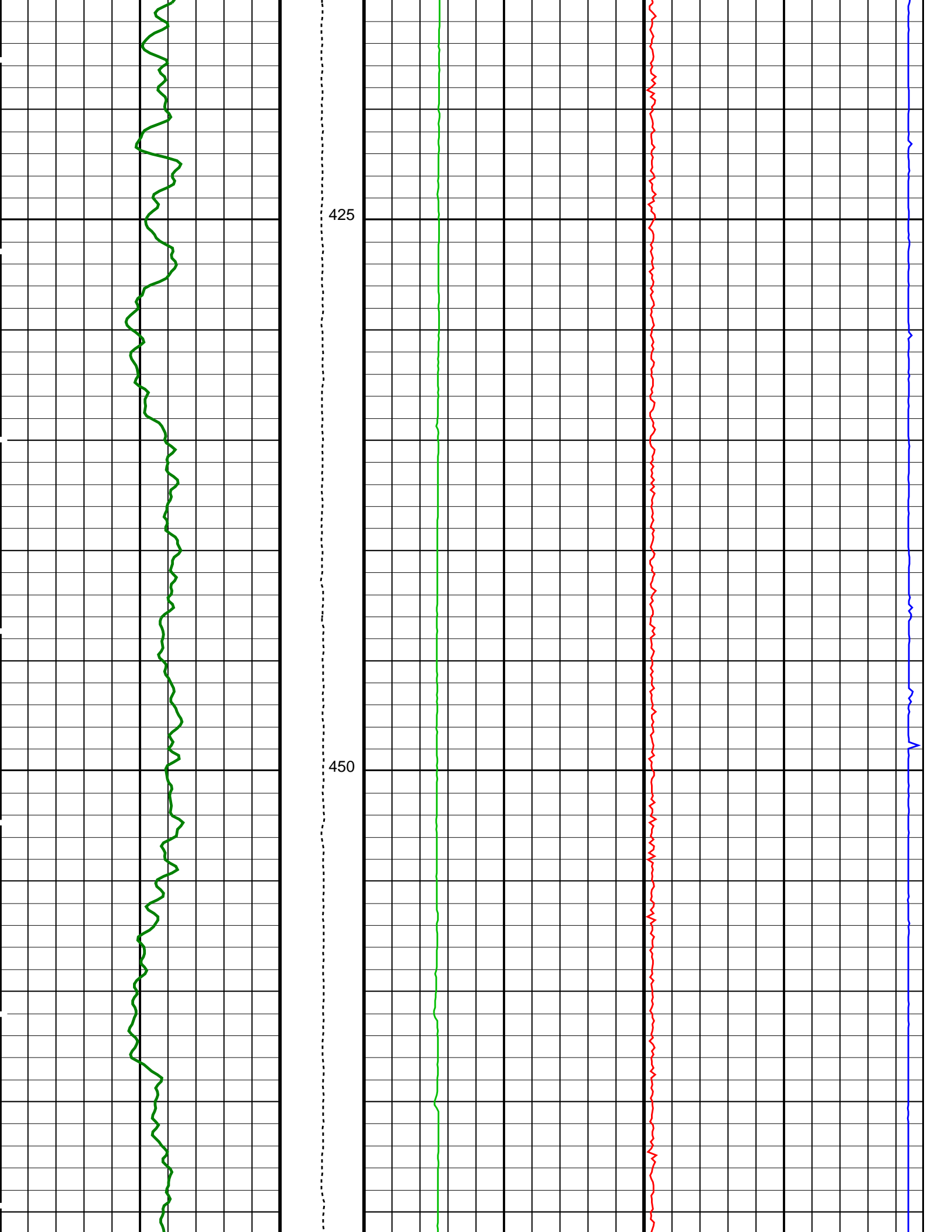


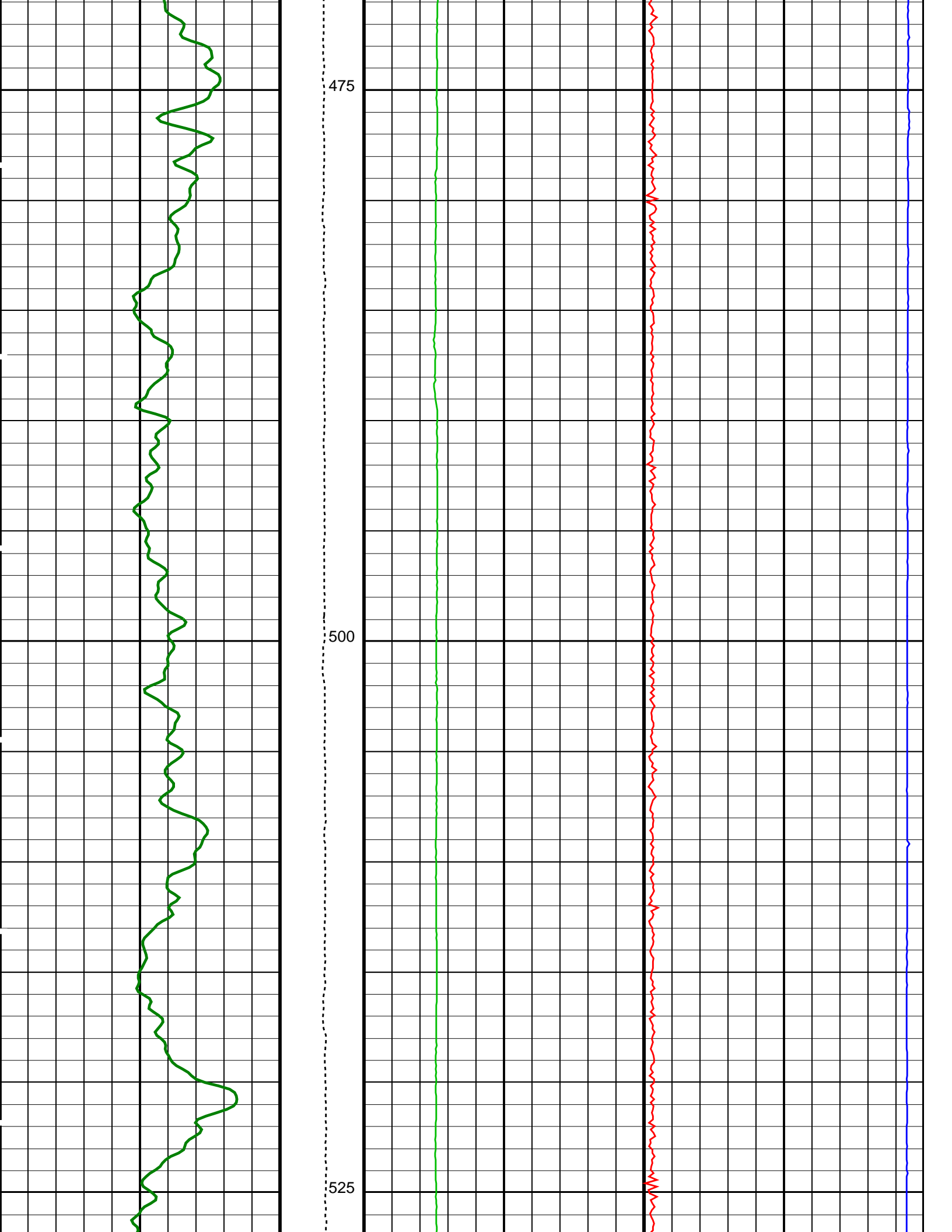


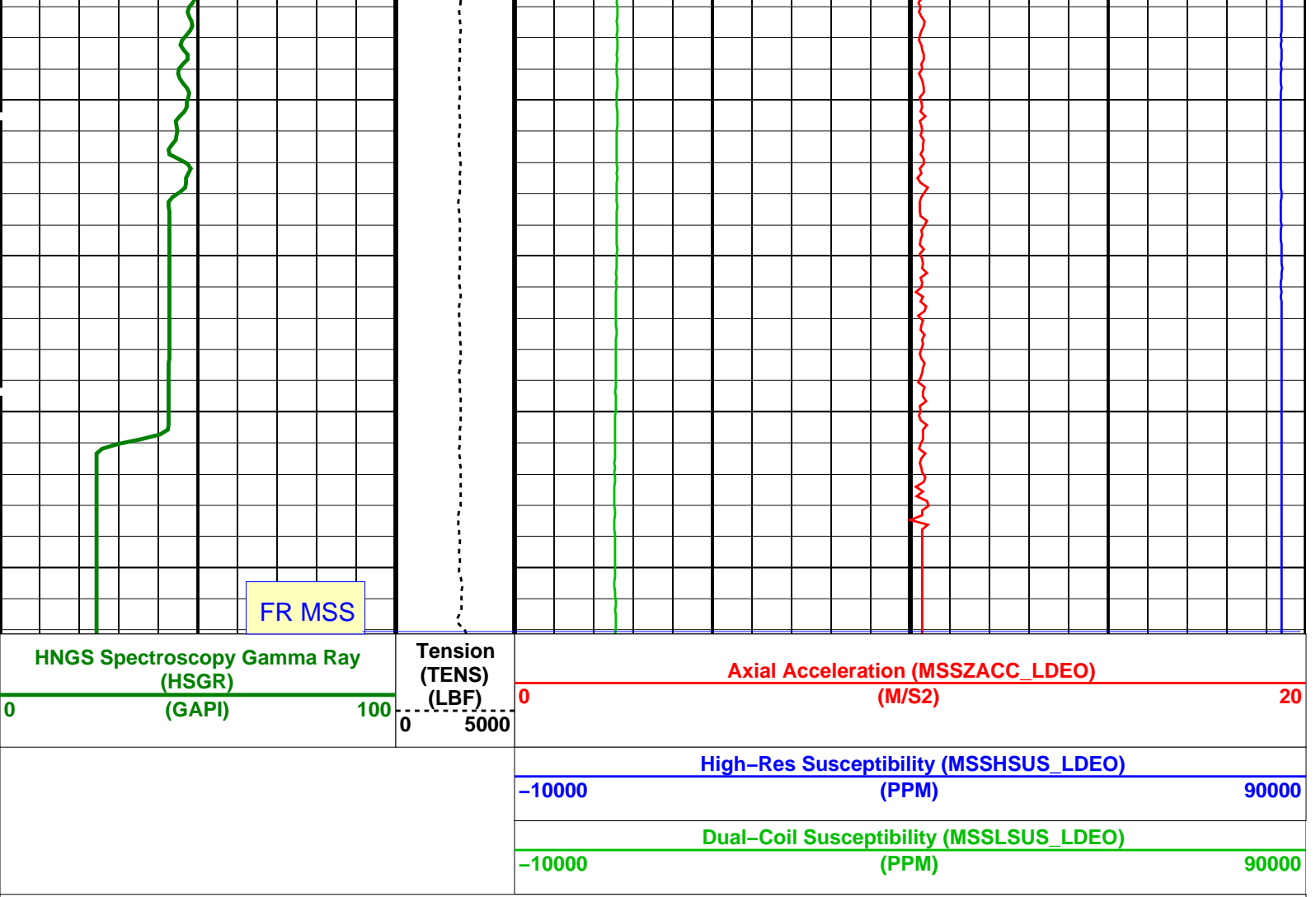
375

400









PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>		
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 IN
CSW1	Inner Casing Weight	0 LB/F
CSW2	Outer Casing Weight	0 LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE
GCSE	Generalized Caliper Selection	LCAL
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00353669
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	BARI
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.936615
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	-0.988183
<b>HRLT-B: High Resolution Laterolog Array - B</b>		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
<b>EDTC-B: Enhanced DTS Cartridge</b>		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
<b>System and Miscellaneous</b>		
BS	Bit Size	11.438 IN
DFD	Drilling Fluid Density	1.26 G/CM3

## OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	HRLT-B	19C0-187
EDTC-B	SKK-5169-EDTCB		

### Input DLIS Files

DEFAULT	MSS_LDEO_LDL_NGS_008LUP	FN:7	PRODUCER	08-Sep-2013 00:57	887.0 M	329.6 M
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### Output DLIS Files

DEFAULT	MSS_LDEO_LDL_NGS_021PUP	FN:21	PRODUCER	09-Sep-2013 11:34	
CLIENT	MSS_LDEO_LDL_NGS_021PUC	FN:22	CUSTOMER	09-Sep-2013 11:34	



# Calibrations

## MAXIS Field Log

### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
<b>Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement</b>							
Master: 29-Jul-2013 0:00 Before: 30-Aug-2013 3:41 After: 30-Aug-2013 9:51							
SS Cs Resolution Bkg	9.000	7.700	7.783	7.764	-0.01816	1.800	%
LS Cs Resolution Bkg	9.000	7.970	7.975	8.029	0.05400	1.800	%
LSW1 Background	100.0	84.57	83.11	83.96	0.8545	3.000	CPS
LSW2 Background	100.0	75.61	77.52	76.63	-0.8845	3.000	CPS
LSW3 Background	200.0	173.3	175.9	175.3	-0.5827	6.000	CPS
LSW4 Background	250.0	214.7	215.5	214.7	-0.7667	7.500	CPS
LSW5 Background	600.0	499.6	502.4	499.4	-3.075	18.00	CPS
SSW1 Background	100.0	82.62	82.00	81.38	-0.6195	3.000	CPS
SSW2 Background	200.0	142.8	140.6	140.8	0.1943	6.000	CPS
SSW3 Background	500.0	395.0	396.4	390.7	-5.691	15.00	CPS
SSW4 Background	270.0	213.9	212.3	213.3	1.054	8.100	CPS
SSW5 Background	200.0	151.4	153.3	152.2	-1.028	6.000	CPS
<b>Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement</b>							
Master: 29-Jul-2013 3:09							
LSW1 Aluminum	600.0	491.6	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	715.0	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	869.1	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	437.9	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	399.4	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2277	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6290	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	8825	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3653	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	439.8	N/A	N/A	N/A	N/A	CPS
<b>Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement</b>							
Master: 29-Jul-2013 3:02							
LSW1 Iron	400.0	337.2	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	576.3	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	764.7	N/A	N/A	N/A	N/A	CPS

SSW1 Iron	2100	1667	N/A	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5226	N/A	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8022	N/A	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3308	N/A	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	389.3	N/A	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Caliper Calibration

Before: 29-Jul-2013 5:20

HLDS Caliper Small Ring	12.00	N/A	14.88	N/A	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	18.44	N/A	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 29-Jul-2013 20:46 Before: 30-Aug-2013 3:43 After: 30-Aug-2013 9:52

Na 511 Peak Loc	40.00	39.74	39.66	39.66	-0.001842	1.000	
Na 511 Peak Res	15.50	15.31	14.99	15.59	0.6071	2.000	%
High Voltage	1150	1168	1175	1177	1.875	N/A	V
Na 1785 Peak Loc	142.6	142.6	141.1	143.1	1.995	7.000	
Na 1785 Peak Res	8.500	9.002	8.739	8.350	-0.3891	2.000	%
Temperature	15.50	21.46	30.66	29.21	-1.452	N/A	DEGC
Na Count Rate	45.00	15.10	12.22	12.96	0.7358	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 29-Jul-2013 20:46 Before: 30-Aug-2013 3:43 After: 30-Aug-2013 9:52

Na 511 Peak Loc	40.00	39.58	39.50	39.79	0.2864	1.000	
Na 511 Peak Res	15.50	16.04	16.51	15.30	-1.204	2.000	%
High Voltage	1150	1093	1109	1110	1.251	N/A	V
Na 1785 Peak Loc	142.6	141.7	143.1	142.4	-0.7710	7.000	
Na 1785 Peak Res	8.500	9.499	8.731	9.377	0.6464	2.000	%
Temperature	15.50	21.65	30.81	30.84	0.03577	N/A	DEGC
Na Count Rate	45.00	14.93	12.29	12.87	0.5788	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2

Master: 29-Jul-2013 20:46 Before: 30-Aug-2013 3:43 After: 30-Aug-2013 9:52

Coincidence Count Rate Ratio	1.000	1.015	0.9928	1.007	0.01398	0.05000	
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High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01

Before: 30-Aug-2013 7:33 After: 30-Aug-2013 9:47

HRLT M0-M1 Voltage Plus – 0	0	N/A	-319.0	-319.1	-0.07172	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-331.5	-333.7	-2.138	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-333.5	-334.4	-0.8674	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-337.2	-338.2	-1.027	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-325.8	-326.4	-0.5795	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-322.1	-322.6	-0.4591	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	322.3	325.5	3.187	9.681	UV
HRLT M0-M1 Voltage Plus – 7	0	N/A	-322.7	-322.7	0	9.681	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12

Before: 30-Aug-2013 7:33 After: 30-Aug-2013 9:47

HRLT M1-M2 Voltage Plus – 0	0	N/A	1755	1755	0.3450	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1826	1838	12.58	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1830	1836	5.231	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1849	1855	5.777	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1787	1789	2.735	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1767	1769	2.053	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1784	-1802	-18.73	53.42	UV
HRLT M1-M2 Voltage Plus – 7	0	N/A	1781	1781	0	53.42	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23

Before: 30-Aug-2013 7:33 After: 30-Aug-2013 9:47

HRLT M2-M3 Voltage Plus – 0	0	N/A	1740	1740	0.2959	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1824	1836	12.62	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1829	1835	5.386	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1851	1857	5.774	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1783	1785	2.794	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1764	1766	2.189	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1770	-1789	-18.34	53.42	UV
HRLT M2-M3 Voltage Plus – 7	0	N/A	1781	1781	0	53.42	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34

Before: 30-Aug-2013 7:33 After: 30-Aug-2013 9:47

HRLT A3-A4 Voltage Plus – 0	0	N/A	68410	68450	42.02	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	71490	71990	499.2	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	72020	72220	198.0	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	73160	73390	230.0	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	70400	70520	126.3	2100	UV
HRLT A3-A4 Voltage Plus – 5	0	N/A	69660	69760	94.50	2100	UV
HRLT A3-A4 Voltage Plus – 6	0	N/A	-68410	-69140	-733.3	2100	UV
HRLT A3-A4 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV



High Resolution Laterolog Array – B Wellsite Calibration – HRLT V45

Before: 30–Aug–2013 7:33 After: 30–Aug–2013 9:47

HRLT A4–A5 Voltage Plus – 0	0	N/A	68690	68730	43.28	2100	UV
HRLT A4–A5 Voltage Plus – 1	0	N/A	71870	72390	516.6	2100	UV
HRLT A4–A5 Voltage Plus – 2	0	N/A	72360	72590	225.9	2100	UV
HRLT A4–A5 Voltage Plus – 3	0	N/A	73510	73740	236.8	2100	UV
HRLT A4–A5 Voltage Plus – 4	0	N/A	70700	70830	121.7	2100	UV
HRLT A4–A5 Voltage Plus – 5	0	N/A	69940	70050	101.0	2100	UV
HRLT A4–A5 Voltage Plus – 6	0	N/A	-68800	-69510	-717.7	2100	UV
HRLT A4–A5 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT V56

Before: 30–Aug–2013 7:33 After: 30–Aug–2013 9:47

HRLT A5–A6 Voltage Plus – 0	0	N/A	68590	68630	38.88	2100	UV
HRLT A5–A6 Voltage Plus – 1	0	N/A	71600	72120	511.1	2100	UV
HRLT A5–A6 Voltage Plus – 2	0	N/A	72140	72340	203.8	2100	UV
HRLT A5–A6 Voltage Plus – 3	0	N/A	73310	73550	240.6	2100	UV
HRLT A5–A6 Voltage Plus – 4	0	N/A	70560	70690	125.7	2100	UV
HRLT A5–A6 Voltage Plus – 5	0	N/A	69840	69930	86.73	2100	UV
HRLT A5–A6 Voltage Plus – 6	0	N/A	-68510	-69240	-728.1	2100	UV
HRLT A5–A6 Voltage Plus – 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT VTP

Before: 30–Aug–2013 7:33 After: 30–Aug–2013 9:47

HRLT Torpedo–M0 Voltage – 0	0	N/A	-68280	-68300	-14.98	2100	UV
HRLT Torpedo–M0 Voltage – 1	0	N/A	-71920	-72430	-503.3	2100	UV
HRLT Torpedo–M0 Voltage – 2	0	N/A	-72430	-72650	-219.8	2100	UV
HRLT Torpedo–M0 Voltage – 3	0	N/A	-73590	-73840	-247.4	2100	UV
HRLT Torpedo–M0 Voltage – 4	0	N/A	-70760	-70880	-124.5	2100	UV
HRLT Torpedo–M0 Voltage – 5	0	N/A	-69990	-70080	-87.16	2100	UV
HRLT Torpedo–M0 Voltage – 6	0	N/A	68780	69520	744.6	2100	UV
HRLT Torpedo–M0 Voltage – 7	0	N/A	-70000	-70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT VBD

Before: 30–Aug–2013 7:33 After: 30–Aug–2013 9:47

HRLT Bridle#9–M0 Voltage – 0	0	N/A	-68270	-68290	-22.77	2100	UV
HRLT Bridle#9–M0 Voltage – 1	0	N/A	-71890	-72420	-523.3	2100	UV
HRLT Bridle#9–M0 Voltage – 2	0	N/A	-72400	-72630	-223.7	2100	UV
HRLT Bridle#9–M0 Voltage – 3	0	N/A	-73570	-73820	-249.5	2100	UV
HRLT Bridle#9–M0 Voltage – 4	0	N/A	-70760	-70880	-120.6	2100	UV
HRLT Bridle#9–M0 Voltage – 5	0	N/A	-69990	-70080	-95.20	2100	UV
HRLT Bridle#9–M0 Voltage – 6	0	N/A	68740	69510	764.4	2100	UV
HRLT Bridle#9–M0 Voltage – 7	0	N/A	-70000	-70000	0	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT ISO

Before: 30–Aug–2013 7:33 After: 30–Aug–2013 9:47

HRLT Source Current Plus – 0	0	N/A	284.7	284.8	0.1392	8.520	UA
HRLT Source Current Plus – 1	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 2	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 3	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 4	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 5	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 6	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus – 7	0	N/A	281.1	281.1	0	8.520	UA

High Resolution Laterolog Array – B Wellsite Calibration – HRLT MV

Before: 30–Aug–2013 7:33 After: 30–Aug–2013 9:47

HRLT Vertical Voltage PI – 0	0	N/A	-321.4	-321.5	-0.1179	9.681	UV
HRLT Vertical Voltage PI – 1	0	N/A	-326.5	-328.8	-2.307	9.681	UV
HRLT Vertical Voltage PI – 2	0	N/A	-327.4	-328.4	-0.9877	9.681	UV
HRLT Vertical Voltage PI – 3	0	N/A	-329.0	-330.1	-1.059	9.681	UV
HRLT Vertical Voltage PI – 4	0	N/A	-315.1	-315.6	-0.5397	9.681	UV
HRLT Vertical Voltage PI – 5	0	N/A	-326.3	-326.8	-0.4777	9.681	UV
HRLT Vertical Voltage PI – 6	0	N/A	330.3	333.8	3.475	9.681	UV
HRLT Vertical Voltage PI – 7	0	N/A	-322.7	-322.7	0	9.681	UV

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 30–Aug–2013 3:44

EDTC Z–Axis Acceleration	9.810	N/A	9.794	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 30–Aug–2013 3:38

Gamma Ray (Jig – Bkg)	204.1	N/A	204.1	N/A	N/A	18.55	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Hostile Litho Density Sonde  
 Hostile Litho Density High Voltage  
 Gamma Source Radioactive

HLDS - D 35  
 HLDV - D 35  
 GSR - Z 8113

Auxiliary Equipment:

Hostile Litho Density Pad  
 Hostile Litho Density High Voltage Housi

HLDP - C 35  
 HEH - H 35

Hostile Litho-Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Cs Resolution Bkg %	Value	Phase	LS Cs Resolution Bkg %	Value	Phase	LSW1 Background CPS	Value
Master		7.700	Master		7.970	Master		84.57
Before		7.783	Before		7.975	Before		83.11
After		7.764	After		8.029	After		83.96
7.000 (Minimum) 9.000 (Nominal) 11.000 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.000 (Maximum)			55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)		
Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value	Phase	LSW4 Background CPS	Value
Master		75.61	Master		173.3	Master		214.7
Before		77.52	Before		175.9	Before		215.5
After		76.63	After		175.3	After		214.7
50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)			140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)		
Phase	LSW5 Background CPS	Value	Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value
Master		499.6	Master		82.62	Master		142.8
Before		502.4	Before		82.00	Before		140.6
After		499.4	After		81.38	After		140.8
330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)			55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)		
Phase	SSW3 Background CPS	Value	Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value
Master		395.0	Master		213.9	Master		151.4
Before		396.4	Before		212.3	Before		153.3
After		390.7	After		213.3	After		152.2
280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)			150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)		
Master: 29-Jul-2013 0:00			Before: 30-Aug-2013 3:41			After: 30-Aug-2013 9:51		

Litho-Density Spectroscopy Cartridge - B / Equipment Identification

Primary Equipment:  
 LDSC Cartridge

LDSC - B 326

Auxiliary Equipment:  
 LDSC Housing

LDSH - A 303

Hostile Natural Gamma Ray Cartridge - B / Equipment Identification

Primary Equipment:  
 HNGC Cartridge

HNGC - B 300

Auxiliary Equipment:  
 HNGC Housing

HNGH - A 115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:  
 HNGS Sonde

HNGS - BA 194

Auxiliary Equipment:  
 HNGS Sonde Housing  
 Gamma Source Radioactive

HNSH - BA 205  
 GSR - U 616008

Hostile Natural Gamma Ray Sonde Wellsite Calibration									
Detector 1 Check									
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		39.74	Master		15.31	Master		1168	
Before		39.66	Before		14.99	Before		1175	
After		39.66	After		15.59	After		1177	
	37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)	12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master		142.6	Master		9.002	Master		21.46	
Before		141.1	Before		8.739	Before		30.66	
After		143.1	After		8.350	After		29.21	
	135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS	Value							
Master		15.10							
Before		12.22							
After		12.96							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 29-Jul-2013 20:46			Before: 30-Aug-2013 3:43			After: 30-Aug-2013 9:52			

Hostile Natural Gamma Ray Sonde Wellsite Calibration									
Detector 2 Check									
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		39.58	Master		16.04	Master		1093	
Before		39.50	Before		16.51	Before		1109	
After		39.79	After		15.30	After		1110	
	37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)	12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value	
Master		141.7	Master		9.499	Master		21.65	
Before		143.1	Before		8.731	Before		30.81	
After		142.4	After		9.377	After		30.84	
	135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS	Value							
Master		14.93							
Before		12.29							
After		12.87							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 29-Jul-2013 20:46			Before: 30-Aug-2013 3:43			After: 30-Aug-2013 9:52			

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		1.015	
Before		0.9928	
After		1.007	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 29-Jul-2013 20:46			
Before: 30-Aug-2013 3:43			
After: 30-Aug-2013 9:52			

High Resolution Laterolog Array – B / Equipment Identification

Primary Equipment:

HRLT Sonde

HRLS – B

768

Auxiliary Equipment:

HRLT lower Housing

HRLH – B

968

HRLT Lower Cartridge

HRLC – B

974

HRLT upper Housing

HRUH – B

768

HRLT Upper Cartridge

HRUC – B

764

High Resolution Laterolog Array – B Wellsite Calibration

HRLT M01

Idx	Phase	HRLT M0-M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-319.0	-322.7	-280.7	-379.7
	After		-319.1			
1	Before		-331.5	-322.7	-280.7	-379.7
	After		-333.7			
2	Before		-333.5	-322.7	-280.7	-379.7
	After		-334.4			
3	Before		-337.2	-322.7	-280.7	-379.7
	After		-338.2			
4	Before		-325.8	-322.7	-280.7	-379.7
	After		-326.4			
5	Before		-322.1	-322.7	-280.7	-379.7
	After		-322.6			
6	Before		322.3	322.7	379.7	280.7
	After		325.5			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
		(Minimum) (Nominal) (Maximum)				

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High Resolution Laterolog Array – B Wellsite Calibration

HRLT M12

Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1755	1781	2095	1549
	After		1755			
1	Before		1826	1781	2095	1549
	After		1838			
2	Before		1830	1781	2095	1549
	After		1836			
3	Before		1849	1781	2095	1549
	After		1855			
4	Before		1787	1781	2095	1549
	After		1789			
5	Before		1767	1781	2095	1549
	After		1769			
6	Before		-1784	-1781	-1549	-2095
	After		-1802			

7	Before		1781	1781	2095	1549
	After		1781			
			(Minimum)	(Nominal)	(Maximum)	

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High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1740	1781	2095	1549
	After		1740			
1	Before		1824	1781	2095	1549
	After		1836			
2	Before		1829	1781	2095	1549
	After		1835			
3	Before		1851	1781	2095	1549
	After		1857			
4	Before		1783	1781	2095	1549
	After		1785			
5	Before		1764	1781	2095	1549
	After		1766			
6	Before		-1770	-1781	-1549	-2095
	After		-1789			
7	Before		1781	1781	2095	1549
	After		1781			
			(Minimum)	(Nominal)	(Maximum)	

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High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68410	70000	82360	60900
	After		68450			
1	Before		71490	70000	82360	60900
	After		71990			
2	Before		72020	70000	82360	60900
	After		72220			
3	Before		73160	70000	82360	60900
	After		73390			
4	Before		70400	70000	82360	60900
	After		70520			
5	Before		69660	70000	82360	60900
	After		69760			
6	Before		-68410	-70000	-60900	-82360
	After		-69140			
7	Before		70000	70000	82360	60900
	After		70000			

	(Minimum)	(Nominal)	(Maximum)			
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High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68690	70000	82360	60900
	After		68730			
1	Before		71870	70000	82360	60900
	After		72390			
2	Before		72360	70000	82360	60900
	After		72590			
3	Before		73510	70000	82360	60900
	After		73740			
4	Before		70700	70000	82360	60900
	After		70830			
5	Before		69940	70000	82360	60900
	After		70050			
6	Before		-68800	-70000	-60900	-82360
	After		-69510			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

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High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68590	70000	82360	60900
	After		68630			
1	Before		71600	70000	82360	60900
	After		72120			
2	Before		72140	70000	82360	60900
	After		72340			
3	Before		73310	70000	82360	60900
	After		73550			
4	Before		70560	70000	82360	60900
	After		70690			
5	Before		69840	70000	82360	60900
	After		69930			
6	Before		-68510	-70000	-60900	-82360
	After		-69240			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

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High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VTP							
Idx	Phase	HRLT Torpedo-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68280	-70000	-60900	-82360	
	After		-68300				
1	Before		-71920	-70000	-60900	-82360	
	After		-72430				
2	Before		-72430	-70000	-60900	-82360	
	After		-72650				
3	Before		-73590	-70000	-60900	-82360	
	After		-73840				
4	Before		-70760	-70000	-60900	-82360	
	After		-70880				
5	Before		-69990	-70000	-60900	-82360	
	After		-70080				
6	Before		68780	70000	82360	60900	
	After		69520				
7	Before		-70000	-70000	-60900	-82360	
	After		-70000				
		(Minimum) (Nominal) (Maximum)					
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High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VBD							
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68270	-70000	-60900	-82360	
	After		-68290				
1	Before		-71890	-70000	-60900	-82360	
	After		-72420				
2	Before		-72400	-70000	-60900	-82360	
	After		-72630				
3	Before		-73570	-70000	-60900	-82360	
	After		-73820				
4	Before		-70760	-70000	-60900	-82360	
	After		-70880				
5	Before		-69990	-70000	-60900	-82360	
	After		-70080				
6	Before		68740	70000	82360	60900	
	After		69510				
7	Before		-70000	-70000	-60900	-82360	
	After		-70000				
		(Minimum) (Nominal) (Maximum)					
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HRLT ISO

Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		284.7	284.0	334.1	247.0
	After		284.8			
1	Before		281.1	281.1	330.7	244.4
	After		281.1			
2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
			(Minimum)	(Nominal)	(Maximum)	

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High Resolution Laterolog Array – B Wellsite Calibration

HRLT MV

Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-321.4	-322.7	-280.7	-379.7
	After		-321.5			
1	Before		-326.5	-322.7	-280.7	-379.7
	After		-328.8			
2	Before		-327.4	-322.7	-280.7	-379.7
	After		-328.4			
3	Before		-329.0	-322.7	-280.7	-379.7
	After		-330.1			
4	Before		-315.1	-322.7	-280.7	-379.7
	After		-315.6			
5	Before		-326.3	-322.7	-280.7	-379.7
	After		-326.8			
6	Before		330.3	322.7	379.7	280.7
	After		333.8			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
			(Minimum)	(Nominal)	(Maximum)	

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Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:  
 EPTC G... ..

EPTC A/B... ..



EDTC Gamma Ray Detector

EDTG - A/B 8305

Enhanced DTS Cartridge

EDTC - B 8317


Auxiliary Equipment:

EDTC Housing

EDTH - B 8303

Enhanced DTS Cartridge Wellsite Calibration




EDTC Accelerometer Calibration

Phase	EDTC Z-Axis Acceleration	M/S2	Value
Before			9.794
	9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)

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Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background	GAPI	Value	Phase	Gamma Ray (Jig - Bkg)	GAPI	Value	Phase	Gamma Ray (Calibrated)	GAPI	Value
Before			1.864	Before			204.1	Before			165.0
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		185.5 (Minimum)	204.1 (Nominal)	222.7 (Maximum)		150.0 (Minimum)	165.0 (Nominal)	180.0 (Maximum)

Before: 30-Aug-2013 3:38

Company: **Lamont Doherty Earth Observatory**

**Schlumberger**

Well: **Expedition 346, Site U1427A**

Field: **Asian Monsoon**

Rig: **JOIDES Resolution**

Country: **USA**

LDEO MSS