

Schlumberger

Company: Lamont Doherty Earth Observatory
Well: Shell
Field: Expedition 344S, U0080A (USC80)
Rig: JOIDES Resolution

Country: USA

Shell

Field: **Baffin Bay**

LD EO MSS

Rig:		JOIDES Resolution	
Field:		Baffin Bay	
Location:		Latitude: N 75° 35.9015'	
Well:		Expedition 344S, U0080A (USC8)	
Company:		Lamont Doherty Earth Observatory	
LOCATION			
Latitude: N 75° 35.9015'		Elev.: K.B. 11.00 m	
Longitude: W 65° 02.8928'		G.L. -234.00 m D.F. 11.00 m	
Permanent Datum:		Elev.: 0.00 m	
Log Measured From:		11.00 m above Perm. Datum	
Drilling Measured From:			
Ocean:	Max. Well Deviation	Longitude	Latitude
Atlantic	0 deg	N 75° 35.9015'	W 65° 02.8928'

[illegible]

Logging Date	21-Aug-2012				
Run Number	1				
Depth Driller	358.5 m				
Schlumberger Depth	354.5 m				
Bottom Log Interval	352 m				
Top Log Interval	31 m				
Casing Driller Size @ Depth	7.000 in @ 31 m			@	
Casing Schlumberger	31 m				
Bit Size	9.875 in				
Type Fluid In Hole	Seawater				
Density	Viscosity	1.05 g/cm3			
Fluid Loss	PH				
Source Of Sample	N/A				
RM @ Measured Temperature				@	@
RMF @ Measured Temperature				@	@
RMC @ Measured Temperature				@	@
Source RMF	RMC	N/A	N/A		
RM @ MRT	RMF @ MRT	@ 9	@ 9	@	@
Maximum Recorded Temperatures	9 degC				
Circulation Stopped	Time	21-Aug-2012	4:00		
Logger On Bottom	Time	21-Aug-2012	17:40		
Unit Number	Location	625003	Houston		
Recorded By	C. Furman				
Witnessed By	G. Guerin, H. Evans				

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

Run 4

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES2

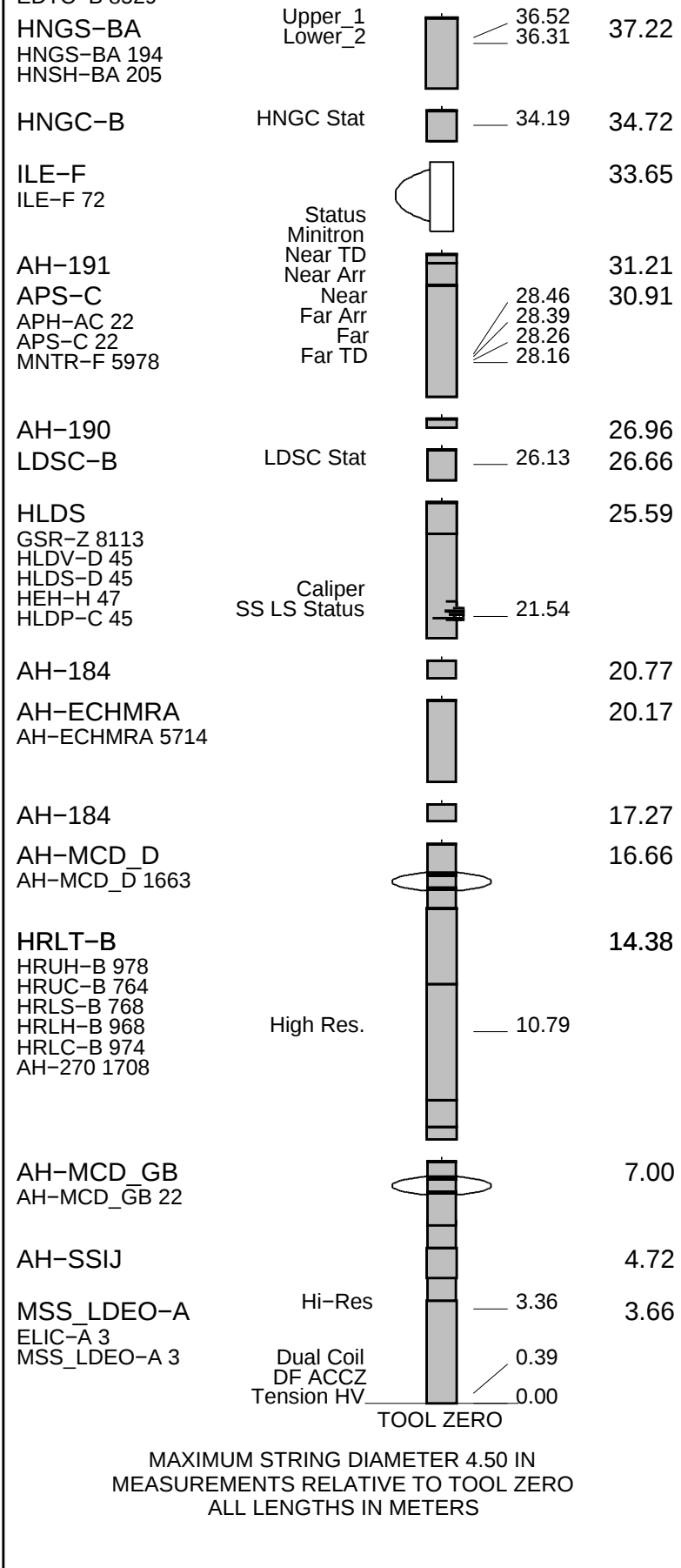
OS3: VSI

MSS Tool run with Deep Reading sensor only; run centered below HRLA.

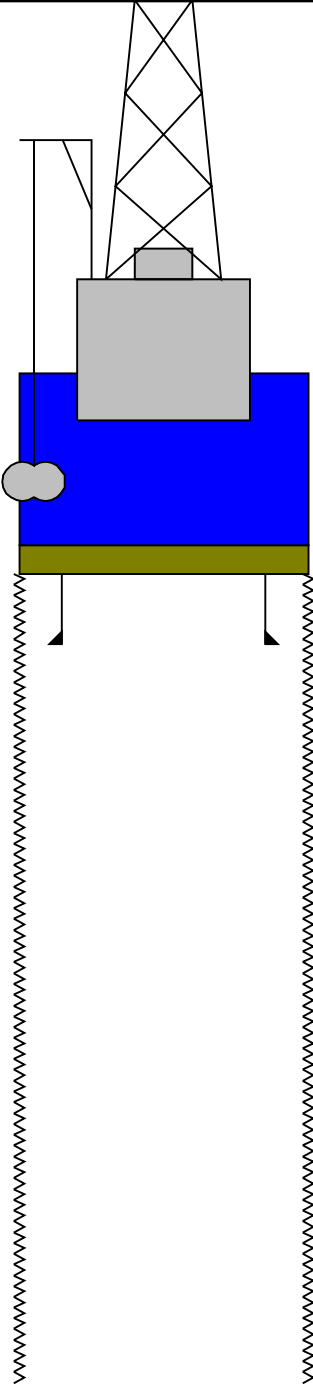
STOP

RUN 2

LEH-MT	MDSB_EDTC		40.59
	Mud Tempe		39.20
	CTEM		38.13
AH-369	Gamma Ray		37.56
EDTC-B	EFTB DIAG		39.20
EDTH-B 8528	TelStatus		
EDTC-B 8529	EDTCB Ele		37.22



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

	UD	ID	MD		MD	UD	ID		
Kelly Bushing Elevation			-234.0		0.0			Sea Bed	
Derrick Floor Elevation			-234.0		31.0			Pipe	
Mean Sea Level			-223.0						
Seismic Gun depth below MSL			7.0						
					358.5	9.875		TD - Driller	



Main Log

MAXIS Field Log

Company: Lamont Doherty Earth Observatory Well: Expedition 344S, U0080A (USC80)

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:22	PRODUCER	21-Aug-2012 19:43	585.2 M	224.2 M
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Output DLIS Files

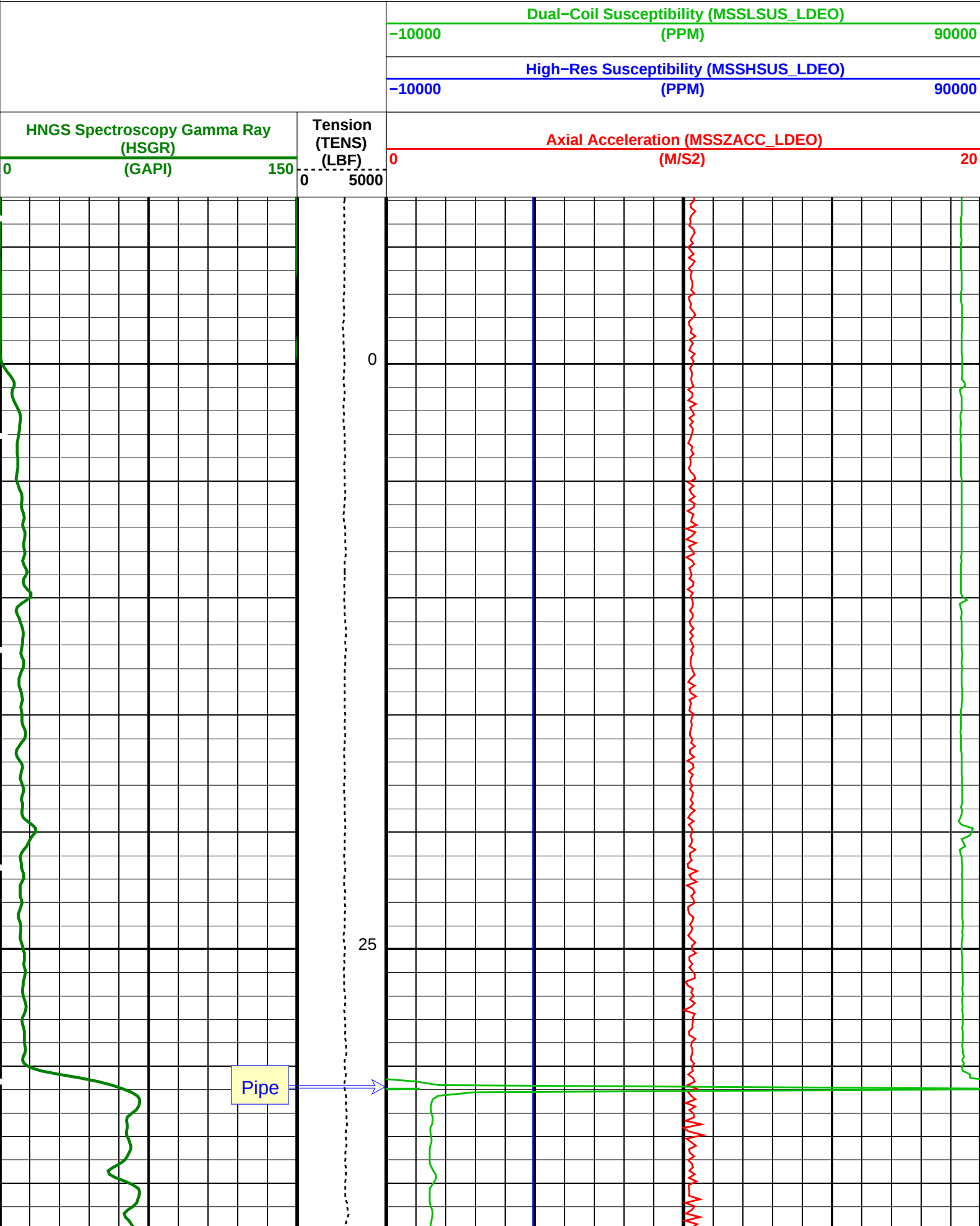
DEFAULT	MSS_LDEO_HRLA_LDL_039PUP	FN:46	PRODUCER	24-Aug-2012 18:52	353.6 M	-7.2 M
CLIENT	MSS_LDEO_HRLA_LDL_039PUC	FN:47	CUSTOMER	24-Aug-2012 18:52	353.6 M	-7.2 M

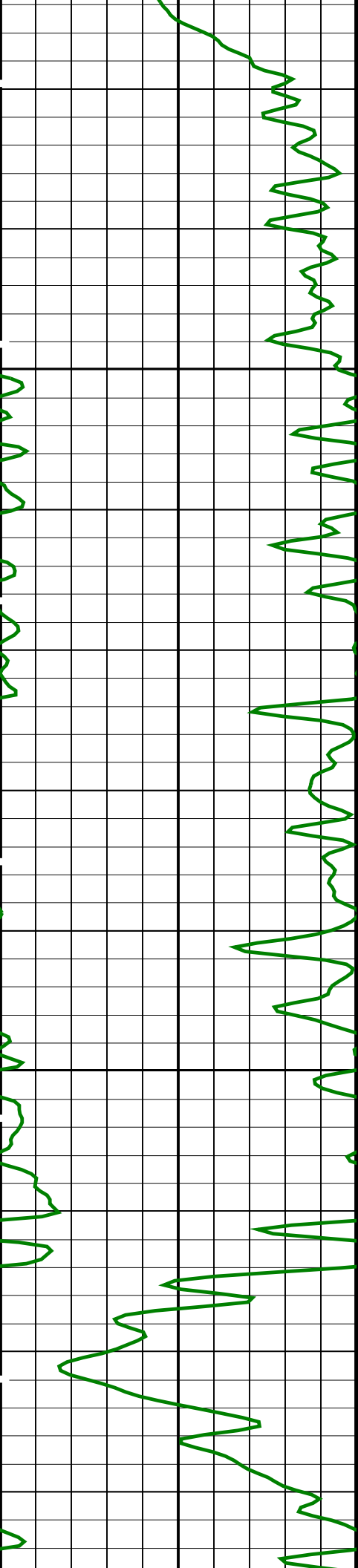
OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187

PIP SUMMARY

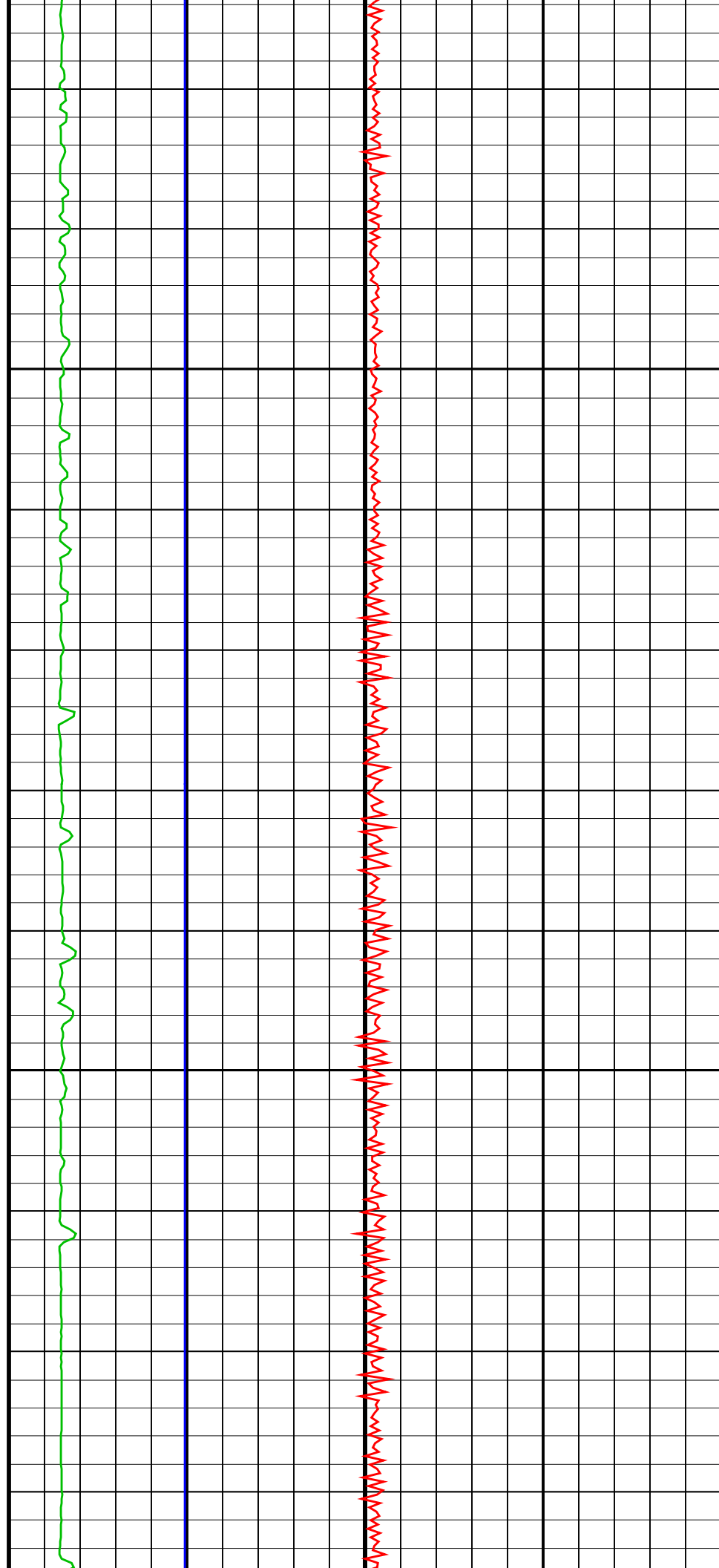
Time Mark Every 60 S

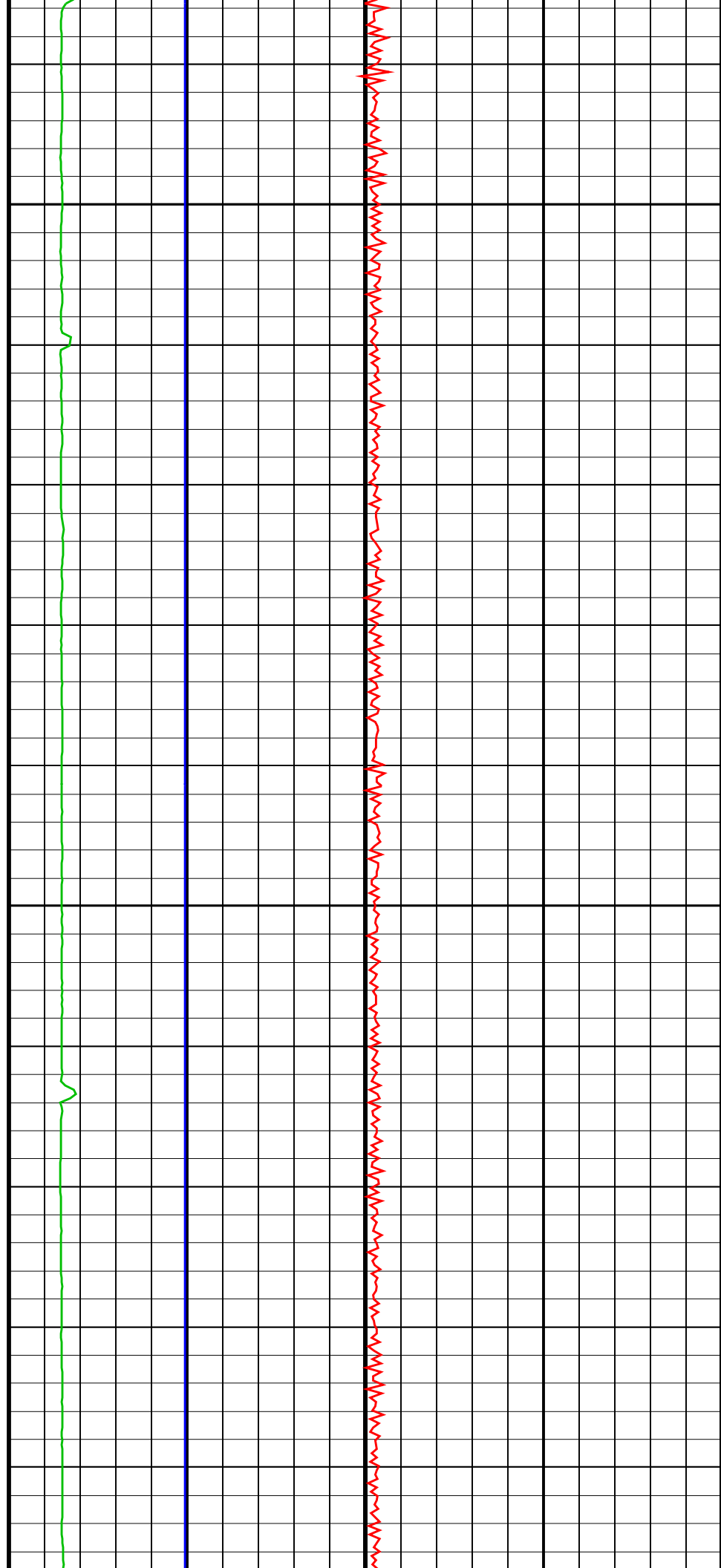
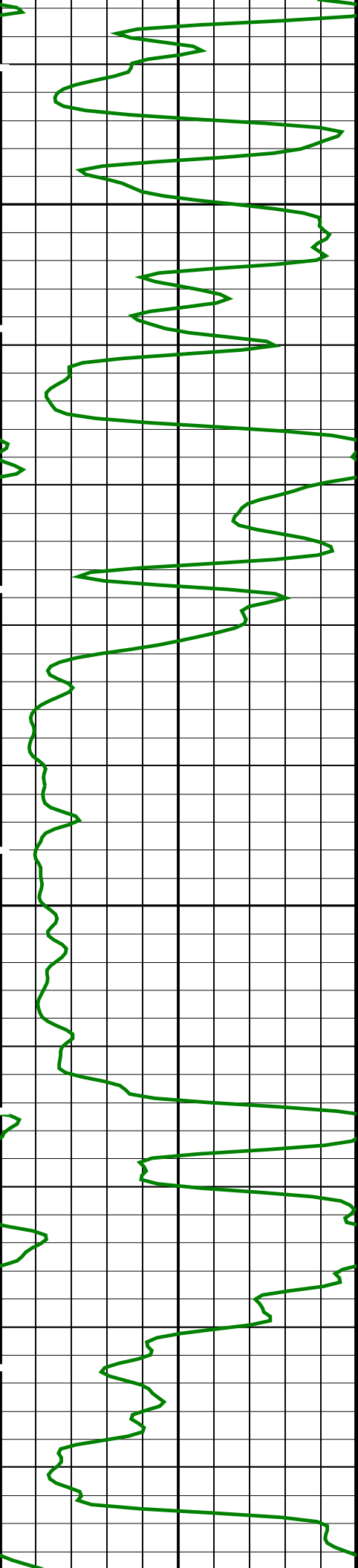


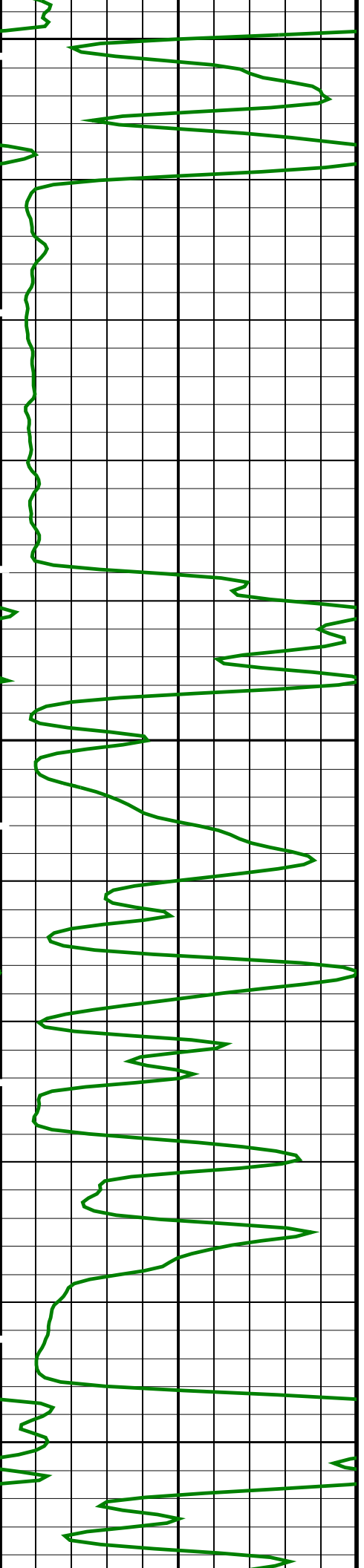


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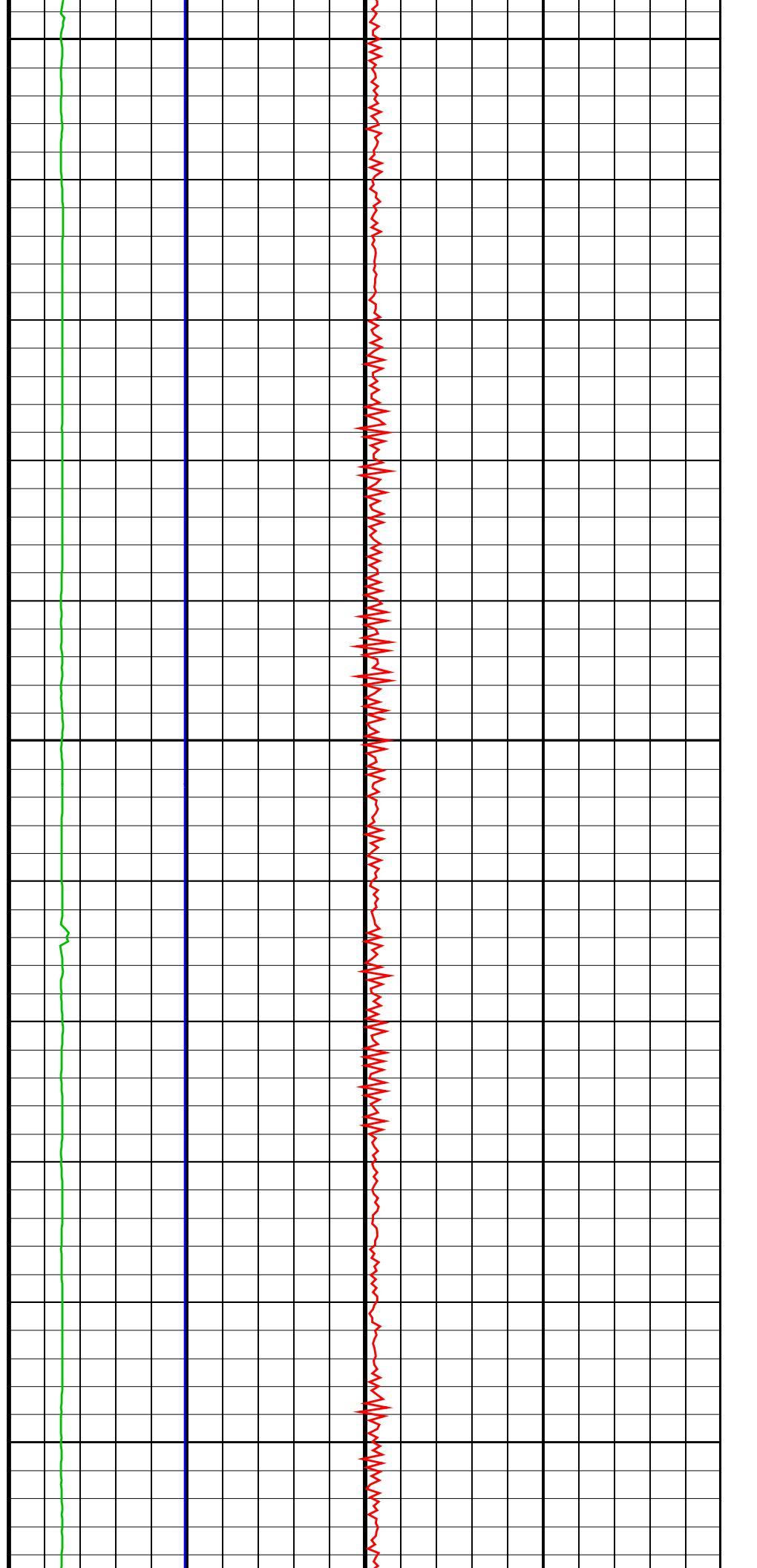
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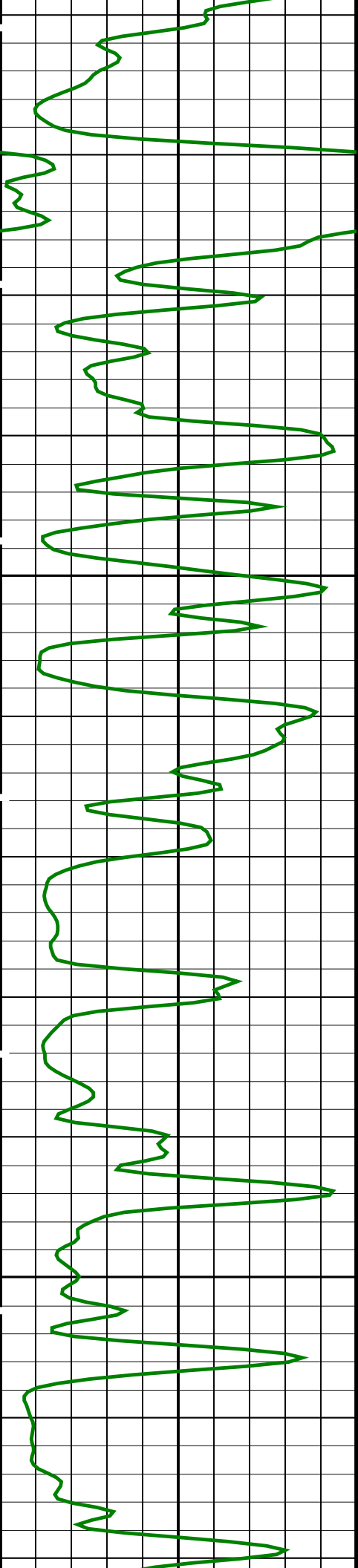






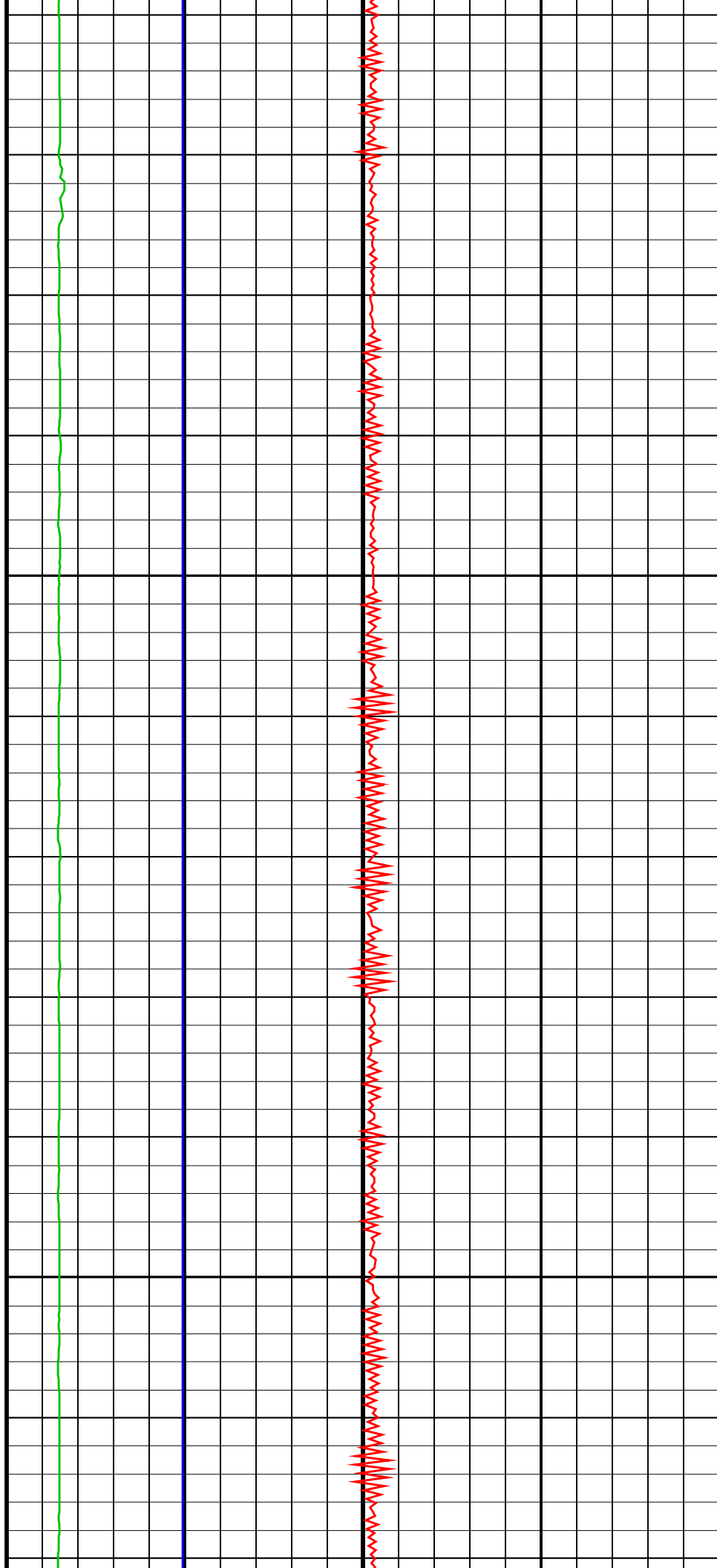
150
175
200

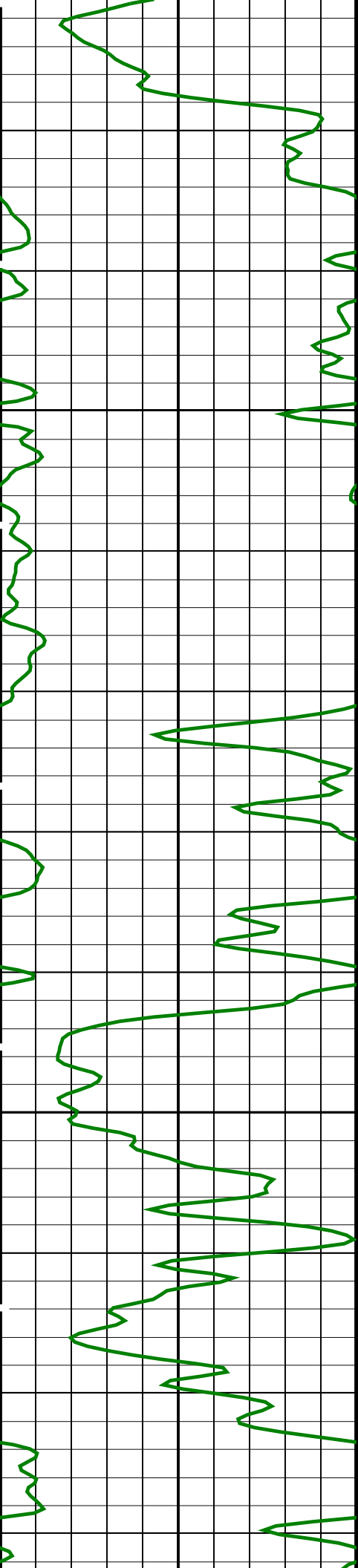




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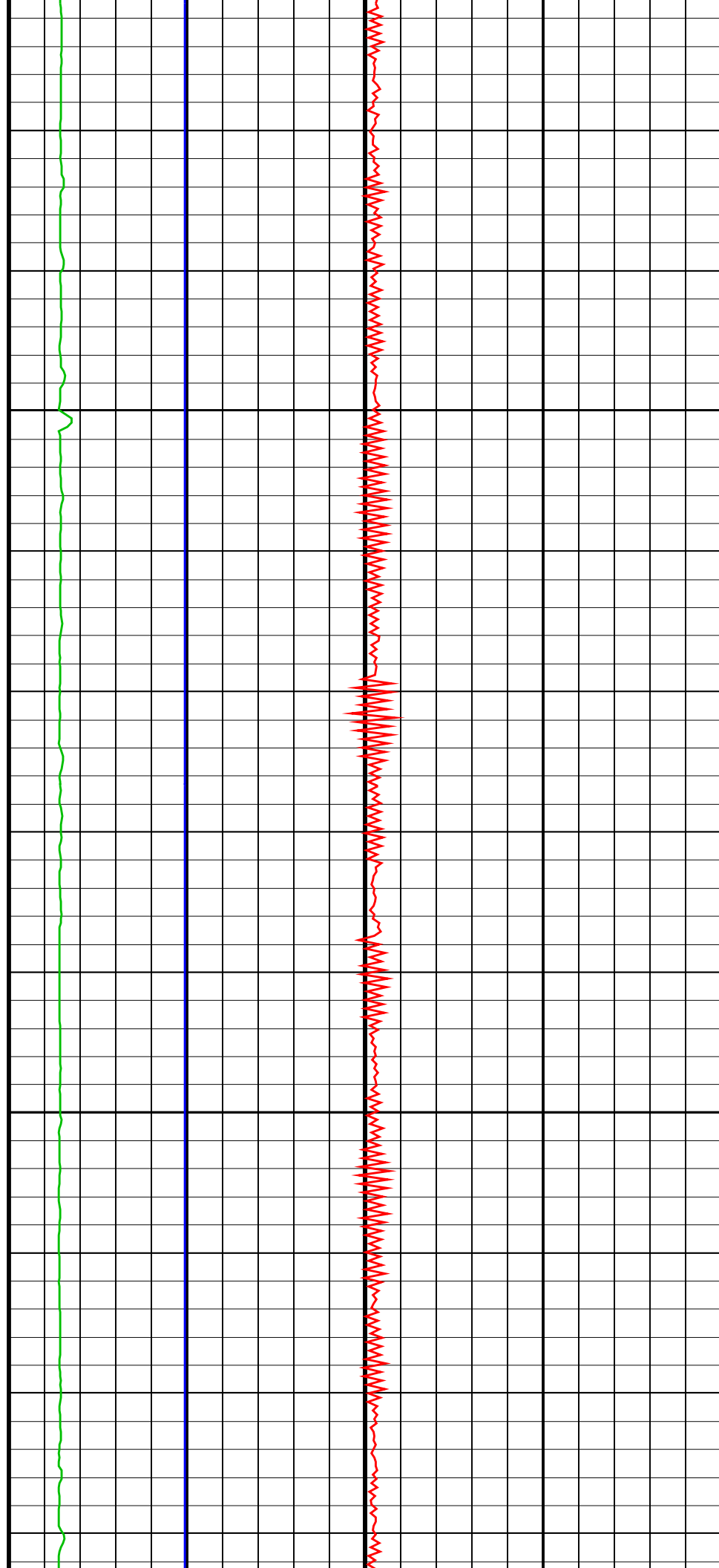
250





275

300



BAR1	HNGS DA: Hostile Natural Gamma Ray Sonde	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	-0.00186494	
HALF		HNGS Alpha Filter Length	60	IN
HCRB		HNGS Apply Borehole Potassium Correction	NONE	
HMWM		Mud Weighting Material	NATU	
HNPE		HNGS Processing Enable	YES	
S1BI		HNGS Detector 1 Calibration Bismuth Count Rate	-999.25	CPS
S2BI		HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC		HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS		Tool Position	ECCE	
VBA1		HNGS Detector 1 Variable Barite Factor Running Average	1.01327	
VBA2		HNGS Detector 2 Variable Barite Factor Running Average	1.00569	
	EDTC-B: Enhanced DTS Cartridge			
BHS		Borehole Status	OPEN	
GCSE		Generalized Caliper Selection	LCAL	
	System and Miscellaneous			
BS		Bit Size	9.875	IN
DFD		Drilling Fluid Density	1.05	G/C3
DO		Depth Offset for Playback	-231.5	M
PP		Playback Processing	NORMAL	

Format: MSS_Logging

Vertical Scale: 1:200

Graphics File Created: 24-Aug-2012 18:52

OP System Version: 19C0-187			
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

Input DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_019LUP	FN:22	PRODUCER	21-Aug-2012 19:43	585.2 M	224.2 M
Output DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_039PUP	FN:46	PRODUCER	24-Aug-2012 18:52		
CLIENT	MSS_LDEO_HRLA_LDL_039PUC	FN:47	CUSTOMER	24-Aug-2012 18:52		

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Repeat Section

MAXIS Field Log

Company: Lamont Doherty Earth Observatory

Well: Expedition 344S, U0080A (USC80)

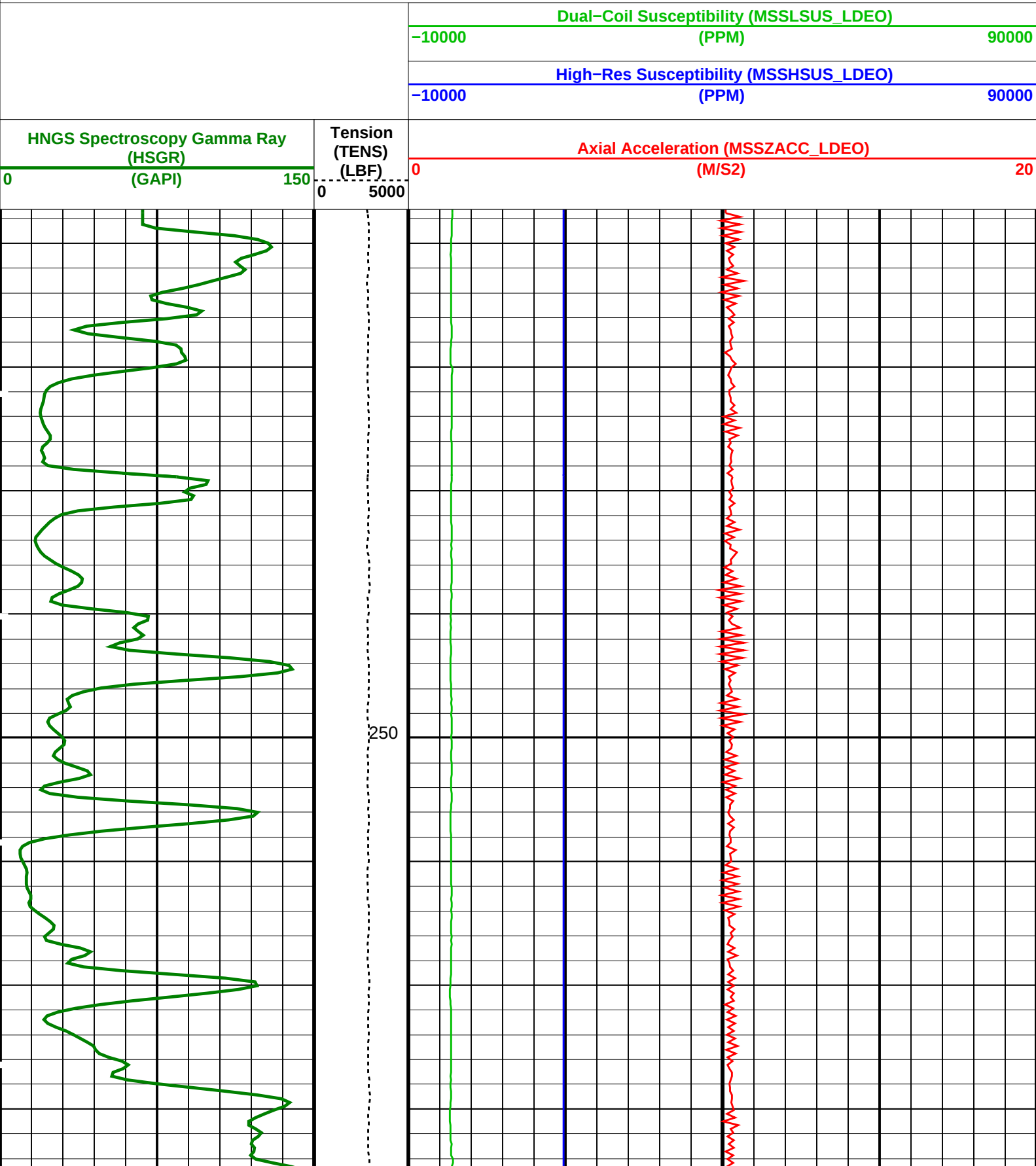
Input DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_018LUP	FN:20	PRODUCER	21-Aug-2012 19:13	585.2 M	461.8 M
Output DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_040PUP	FN:48	PRODUCER	24-Aug-2012 19:00	353.6 M	228.6 M
CLIENT	MSS_LDEO_HRLA_LDL_040PUC	FN:49	CUSTOMER	24-Aug-2012 19:00	353.6 M	228.6 M

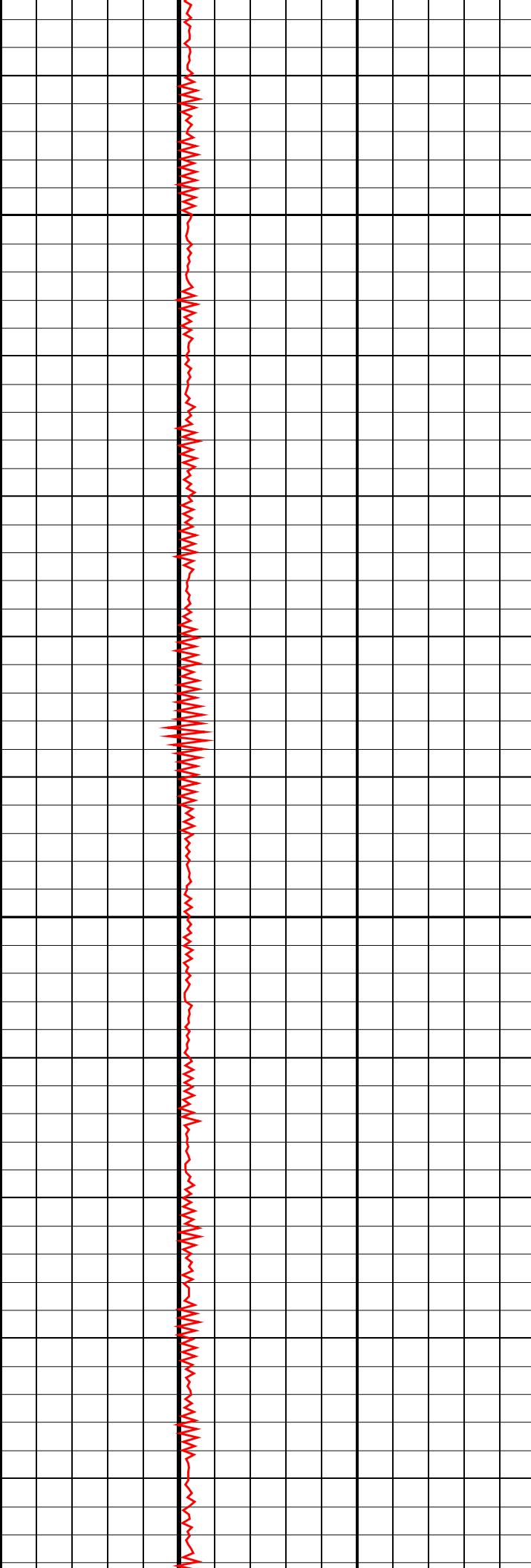
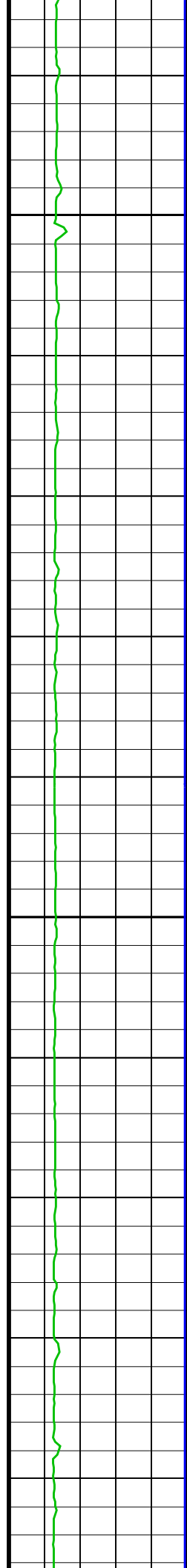
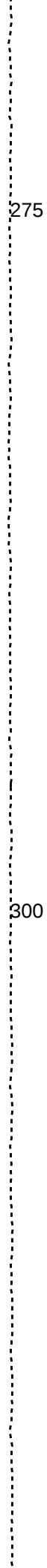
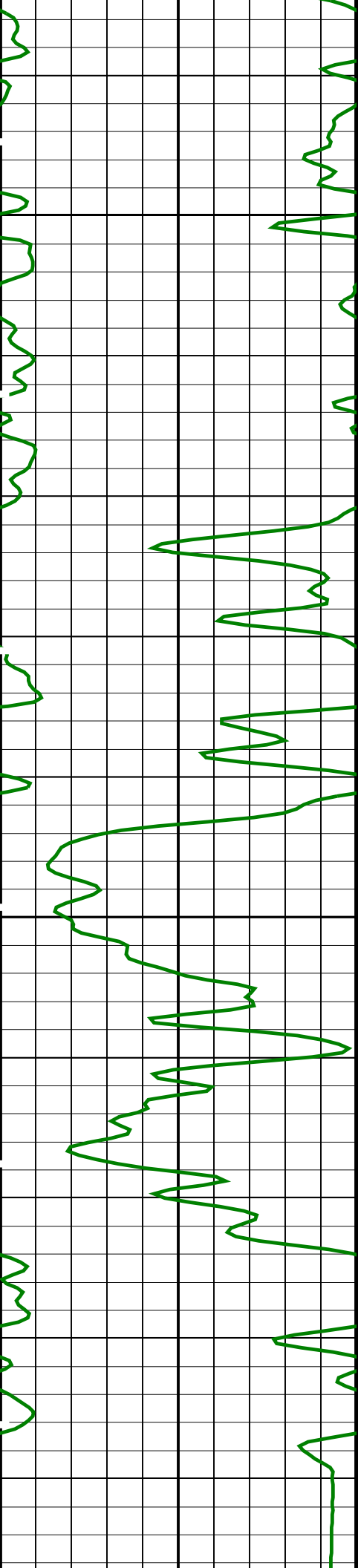
OP System Version: 19C0-187

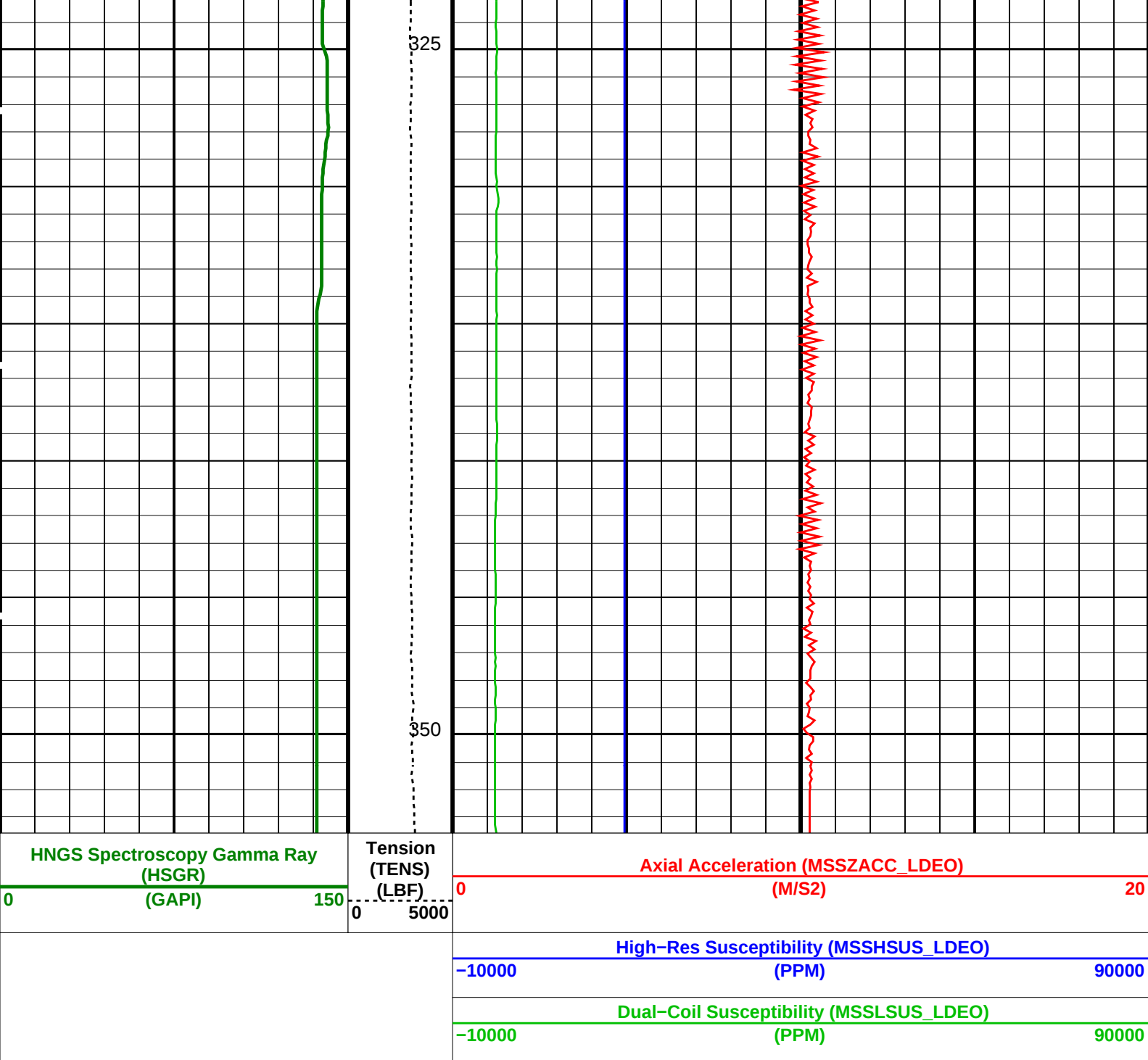
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HRLT-B: High Resolution Laterolog Array – B		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
APS-C: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
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
CSD2	Outer Casing Outer Diameter	0
CSW1	Inner Casing Weight	0
CSW2	Outer Casing Weight	0
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	-0.00186494	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01327	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00569	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	-231.5	M
PP	Playback Processing	NORMAL	

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 24-Aug-2012 19:00

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_018LUP	FN:20	PRODUCER	21-Aug-2012 19:13	585.2 M	461.8 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_040PUP	FN:48	PRODUCER	24-Aug-2012 19:00
CLIENT	MSS_LDEO_HRLA_LDL_040PUC	FN:49	CUSTOMER	24-Aug-2012 19:00

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Downlog

MAXIS Field Log

Company: Lamont Doherty Earth Observatory Well: Expedition 344S, U0080A (USC80)

Input DLIS Files

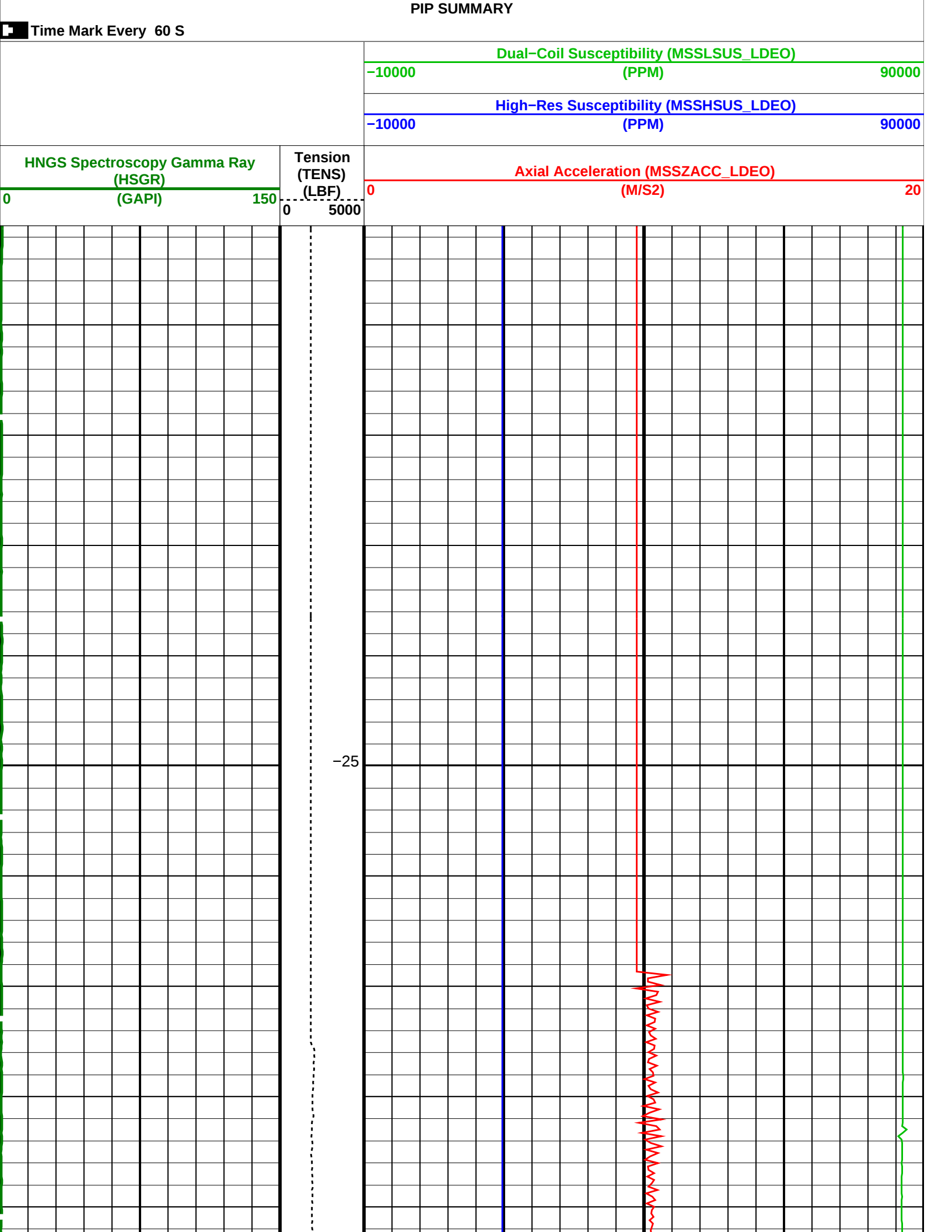
DEFAULT	Flip_MSS_LDEO_HRLA_047PUP	PRODUCER	24-Aug-2012 19:26	354.0 M	-49.5 M
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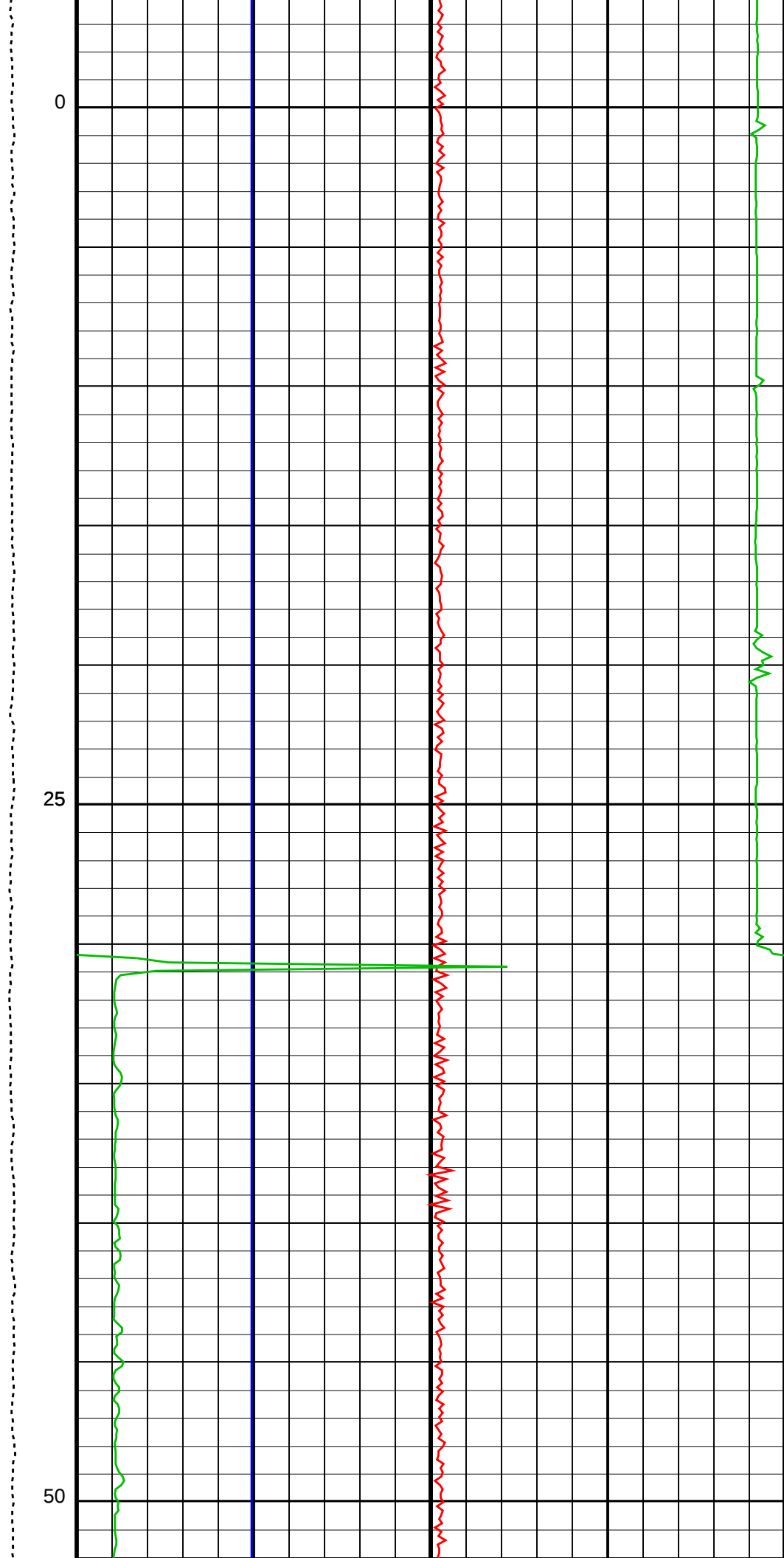
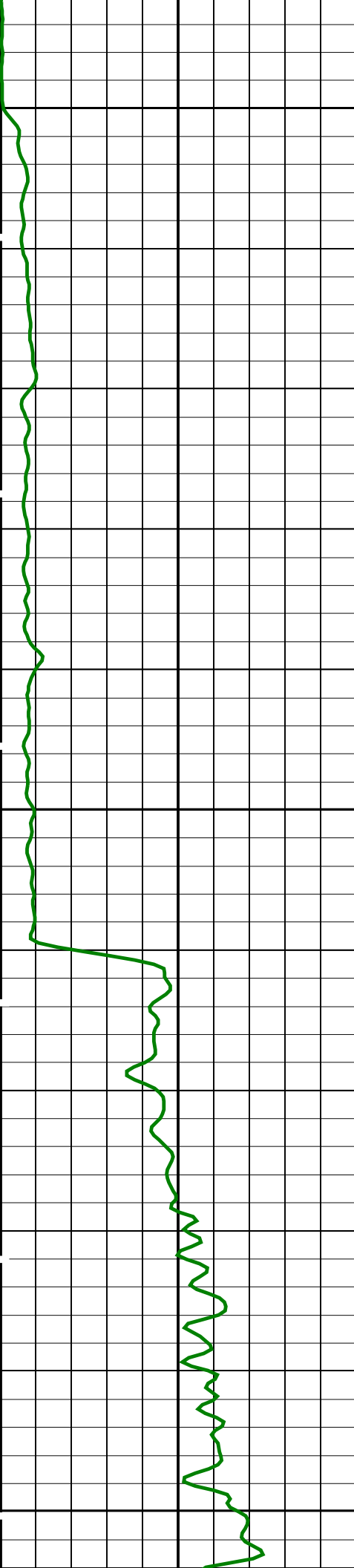
Output DLIS Files

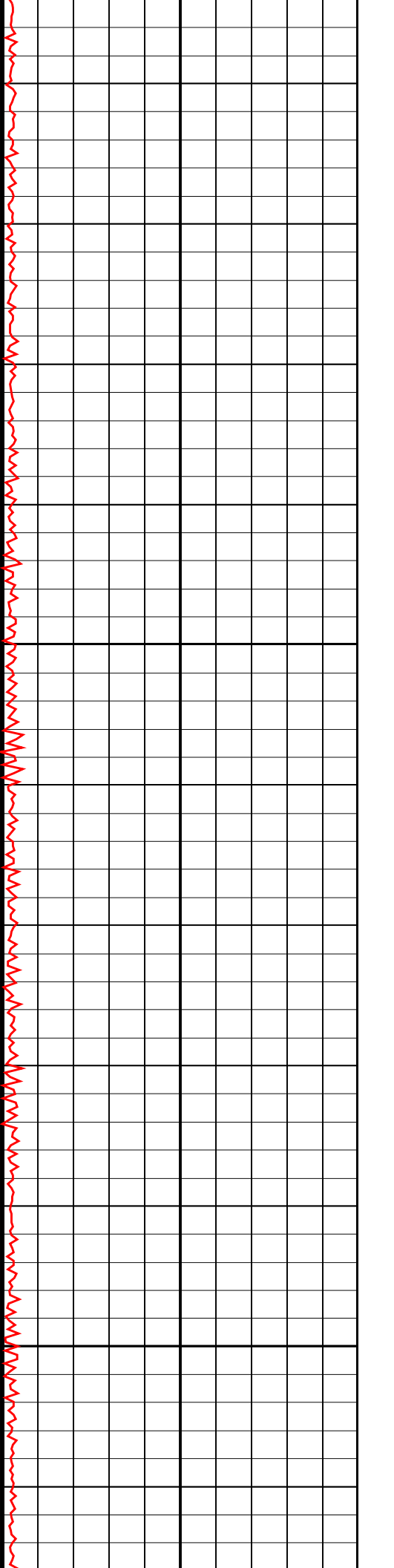
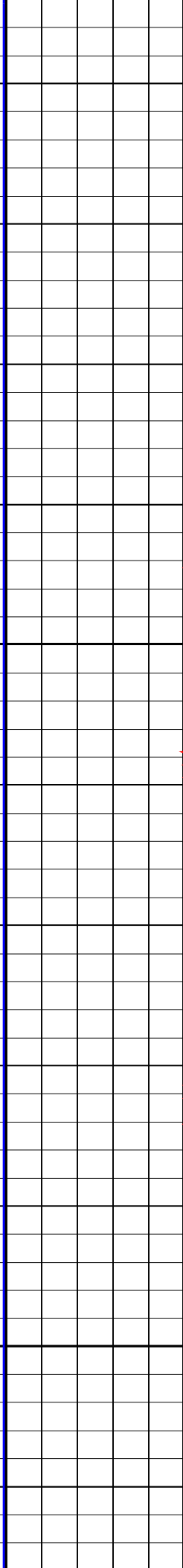
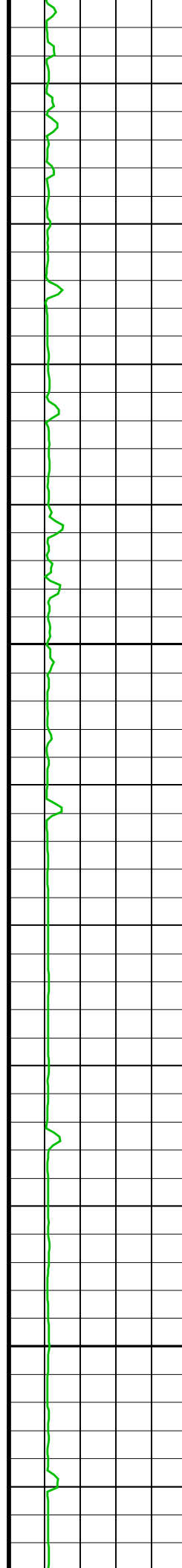
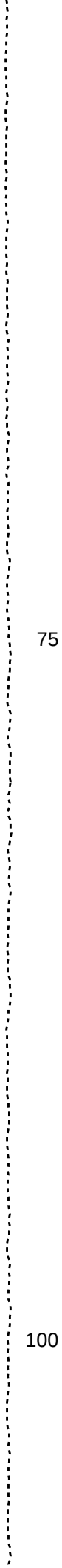
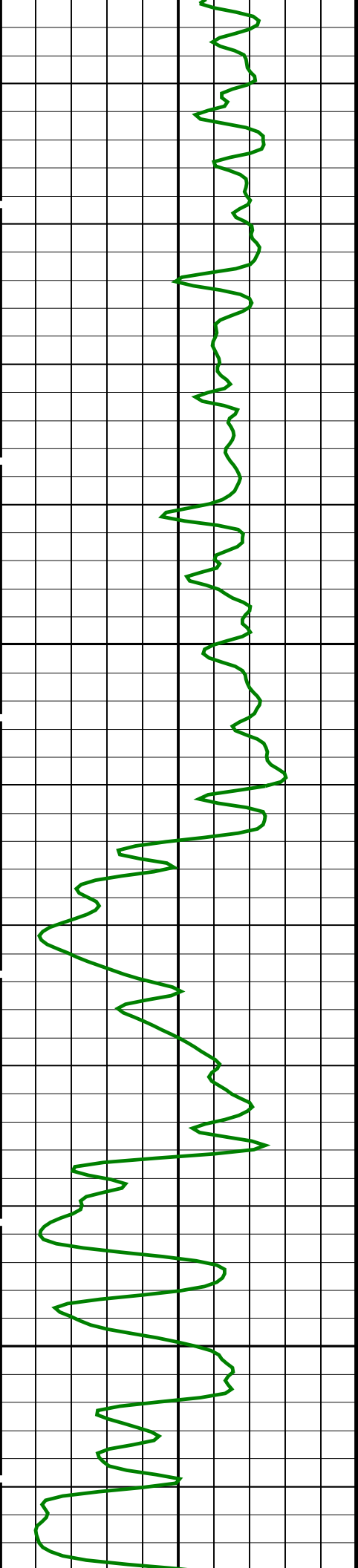
DEFAULT	MSS_LDEO_HRLA_LDL_048PUP	FN:60	PRODUCER	24-Aug-2012 19:27	354.0 M	-49.5 M
CLIENT	MSS_LDEO_HRLA_LDL_048PUC	FN:61	CUSTOMER	24-Aug-2012 19:27	354.0 M	-49.5 M

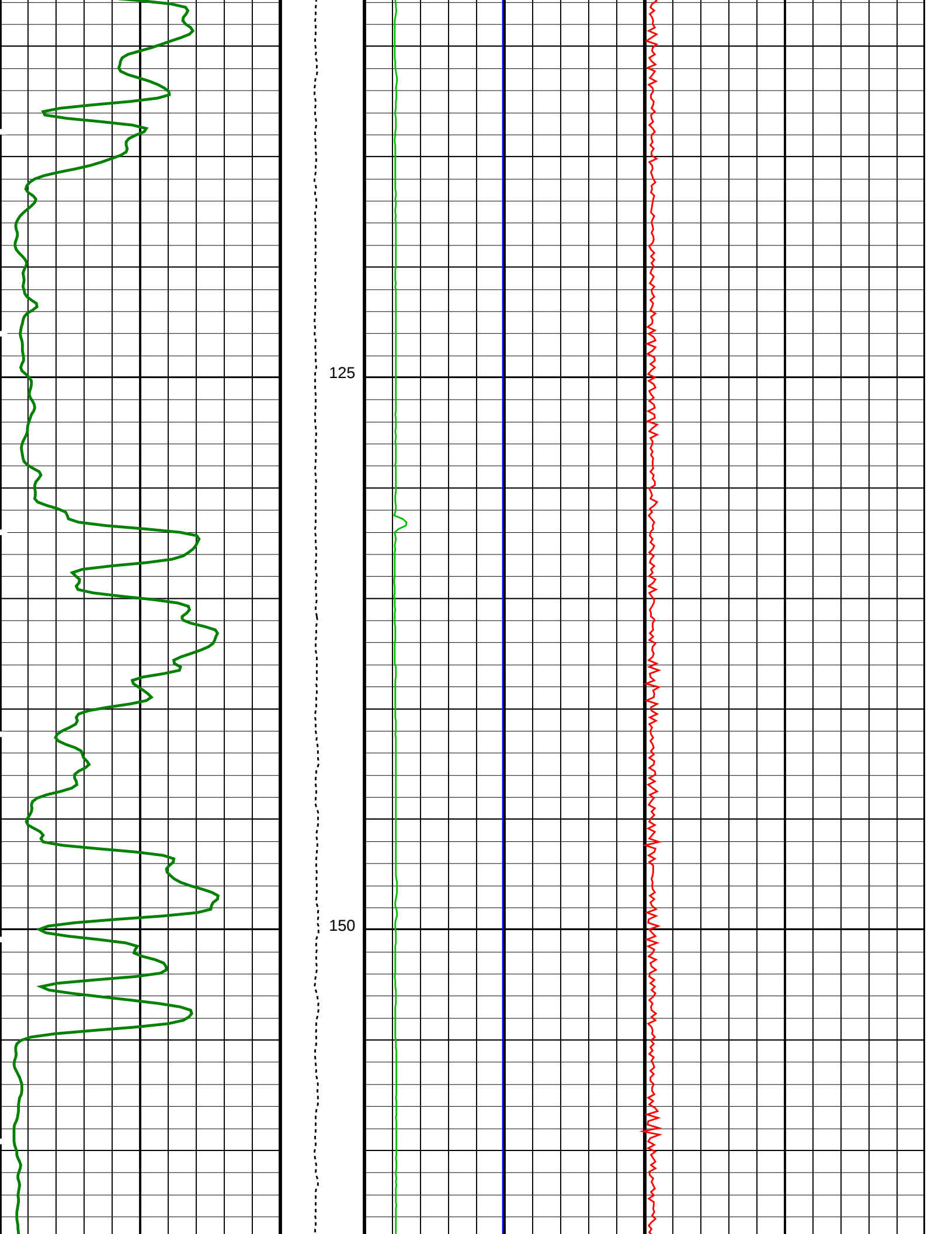
OP System Version: 19C0-187

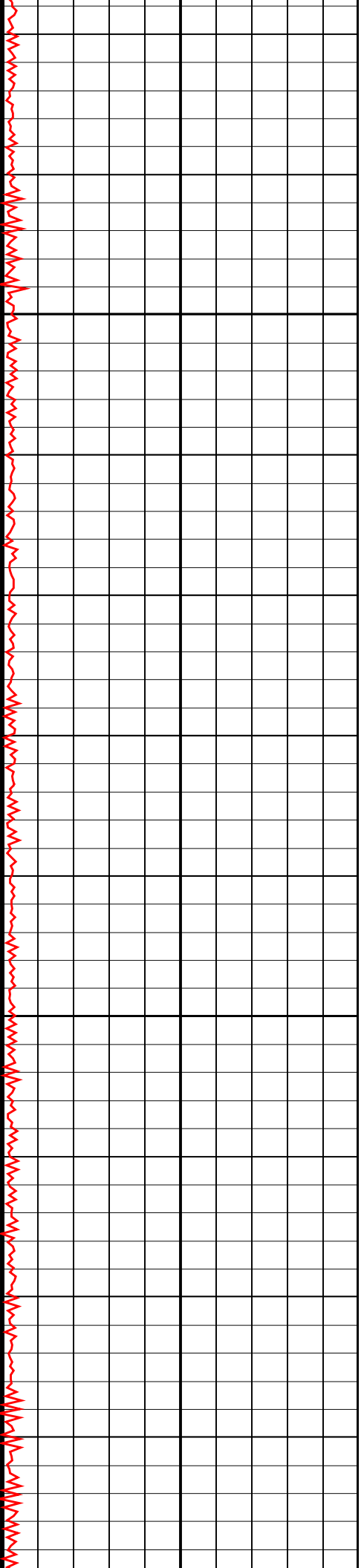
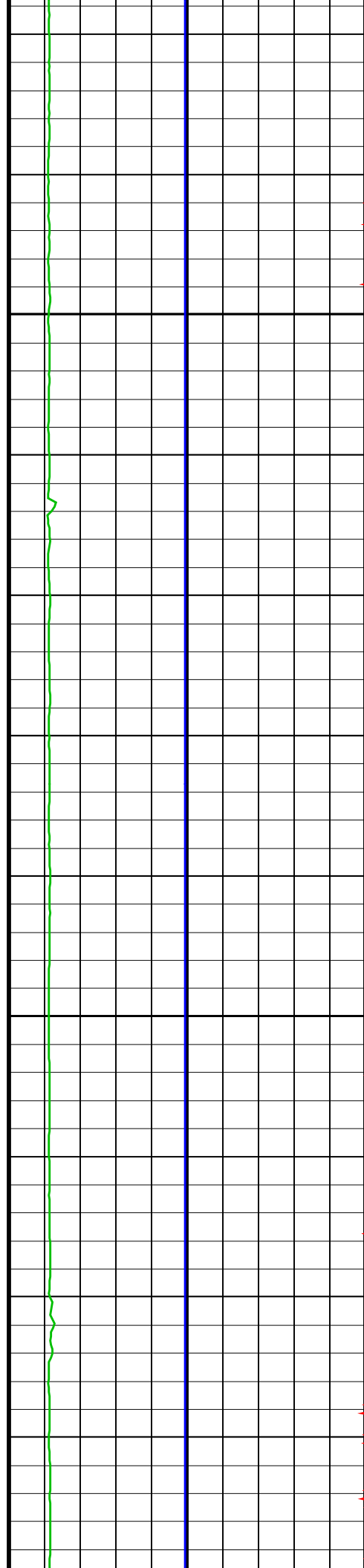
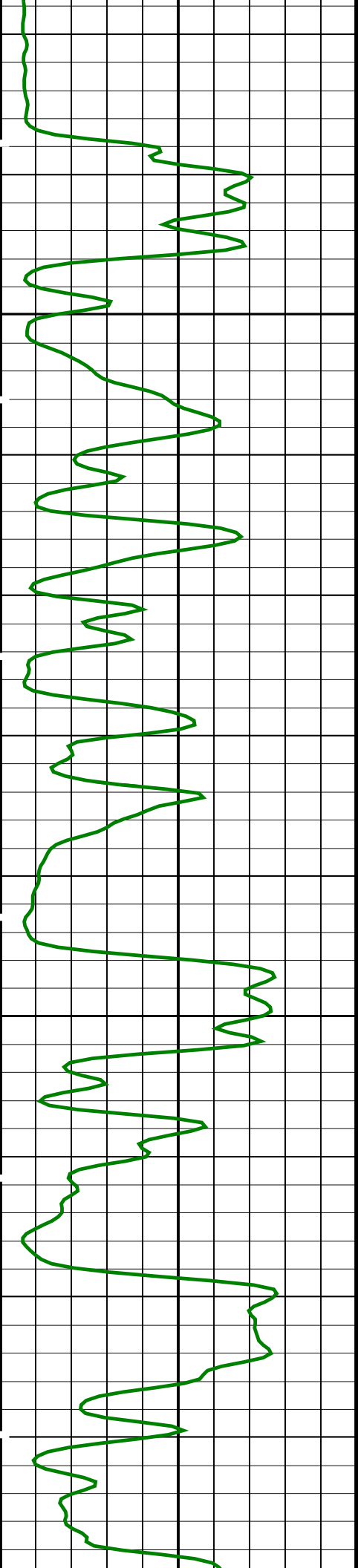
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

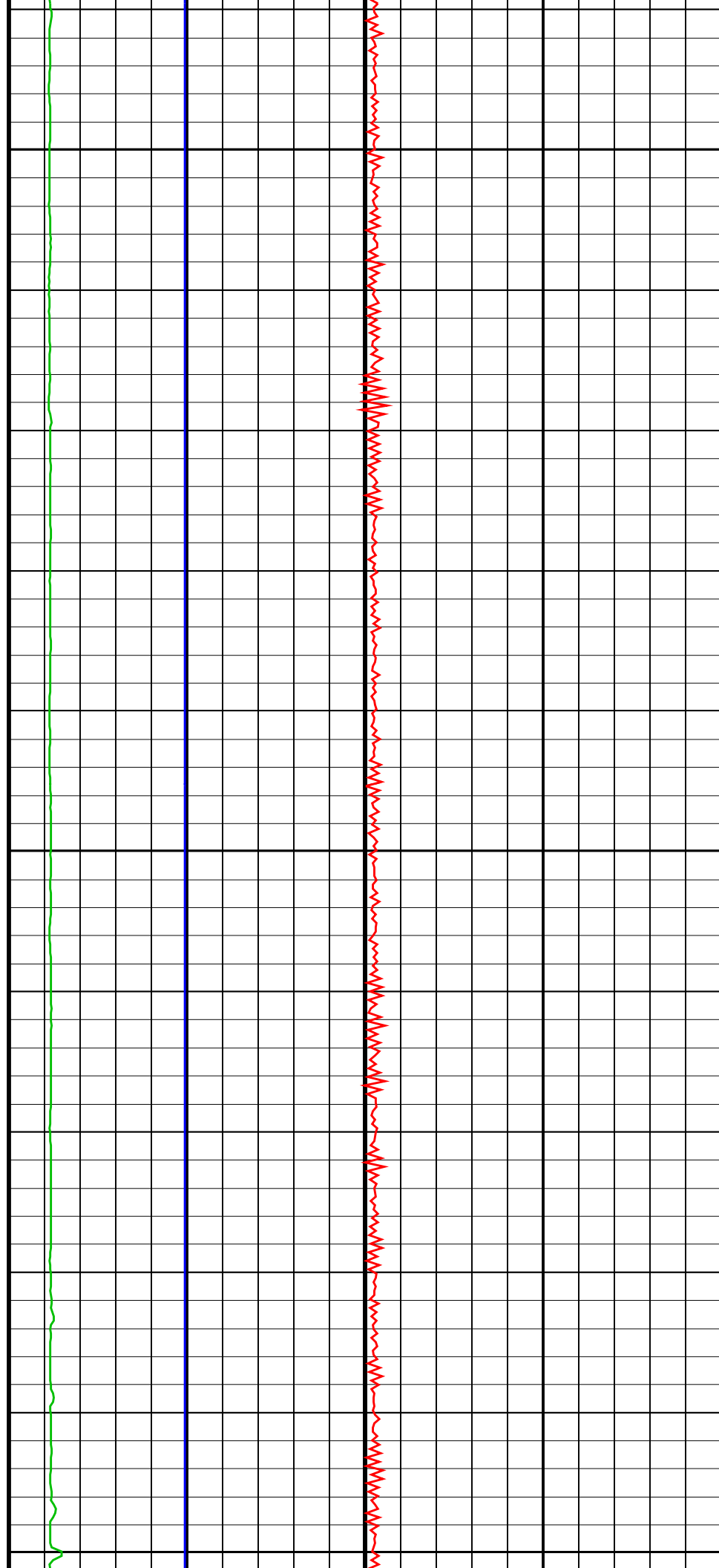
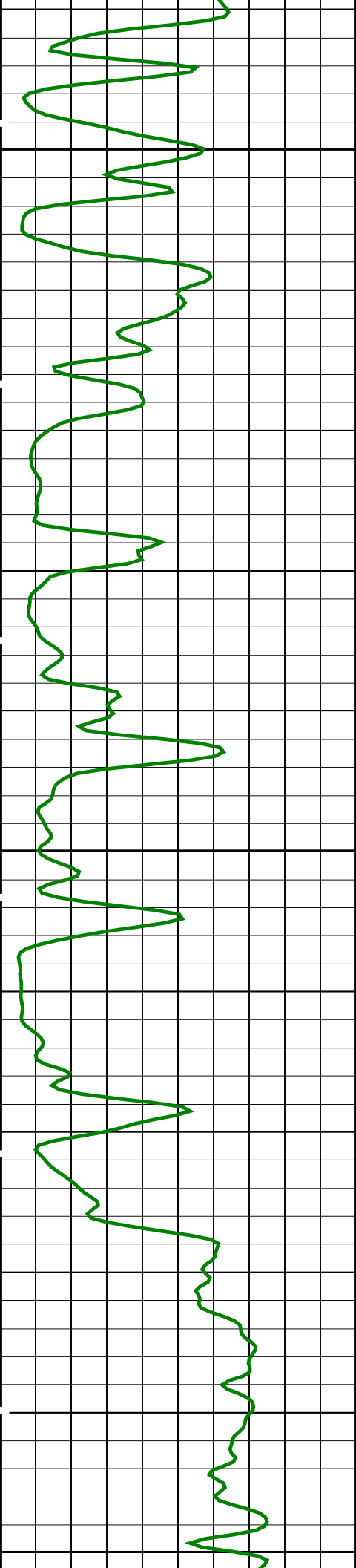


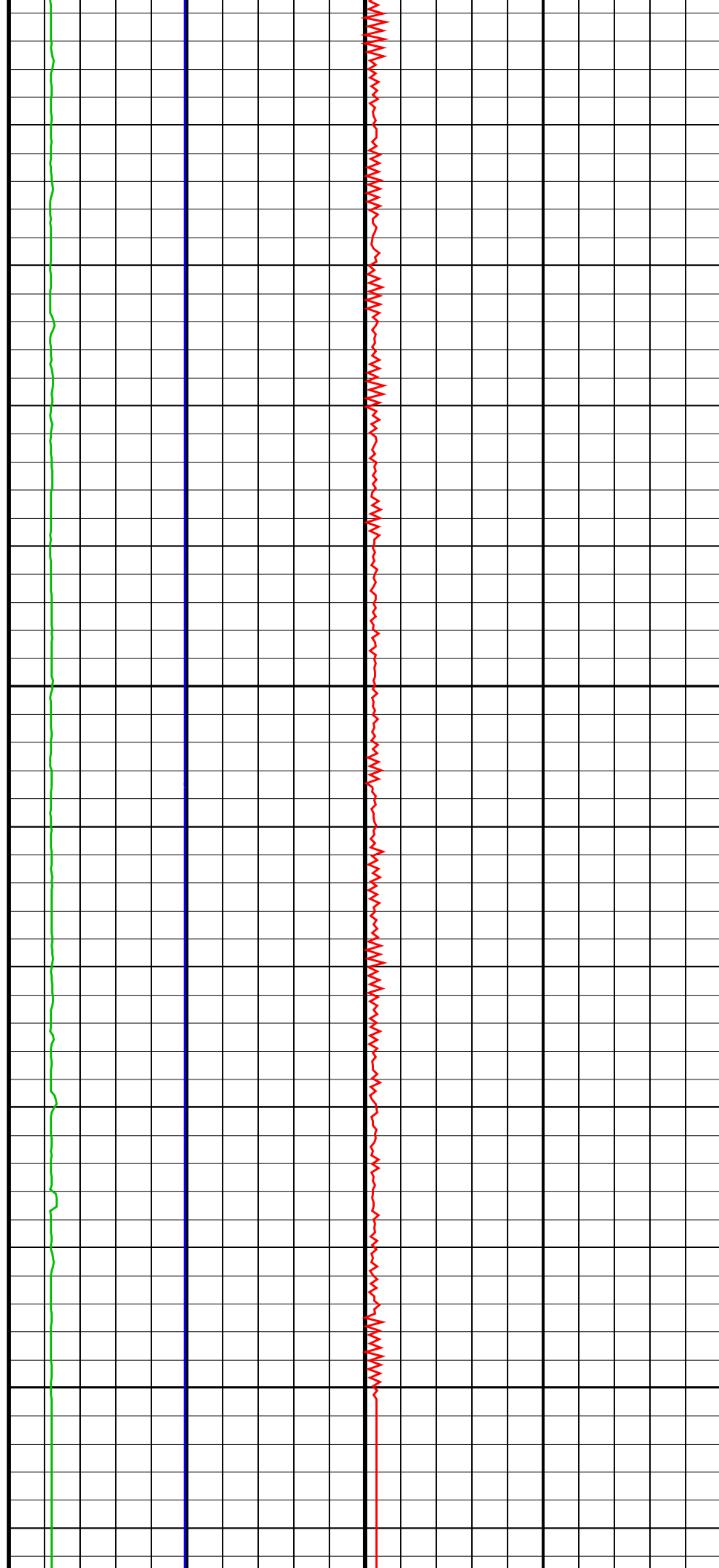
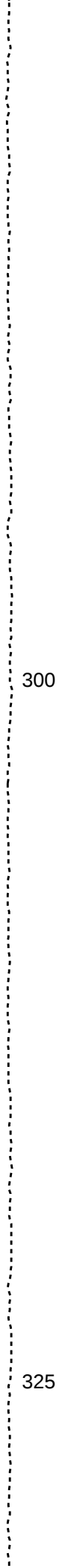
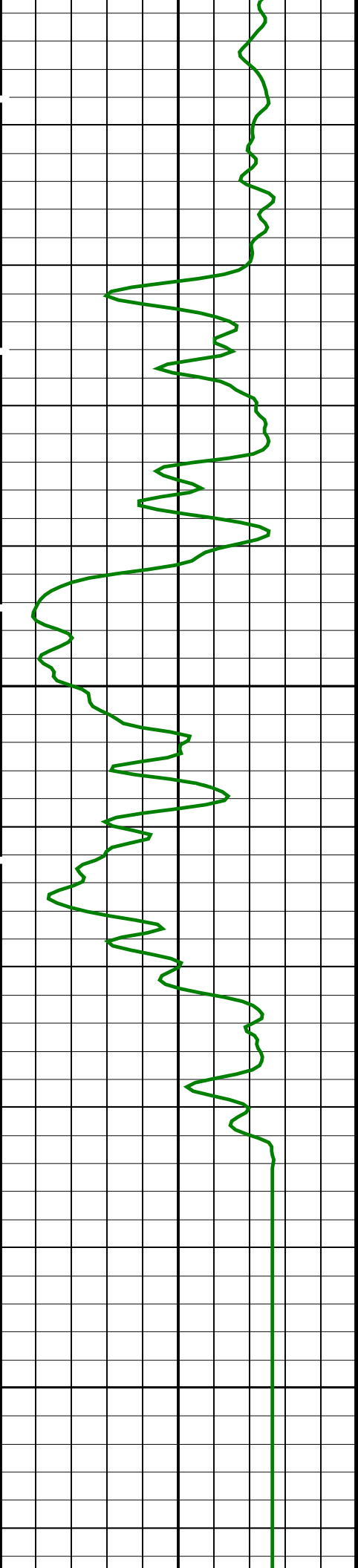


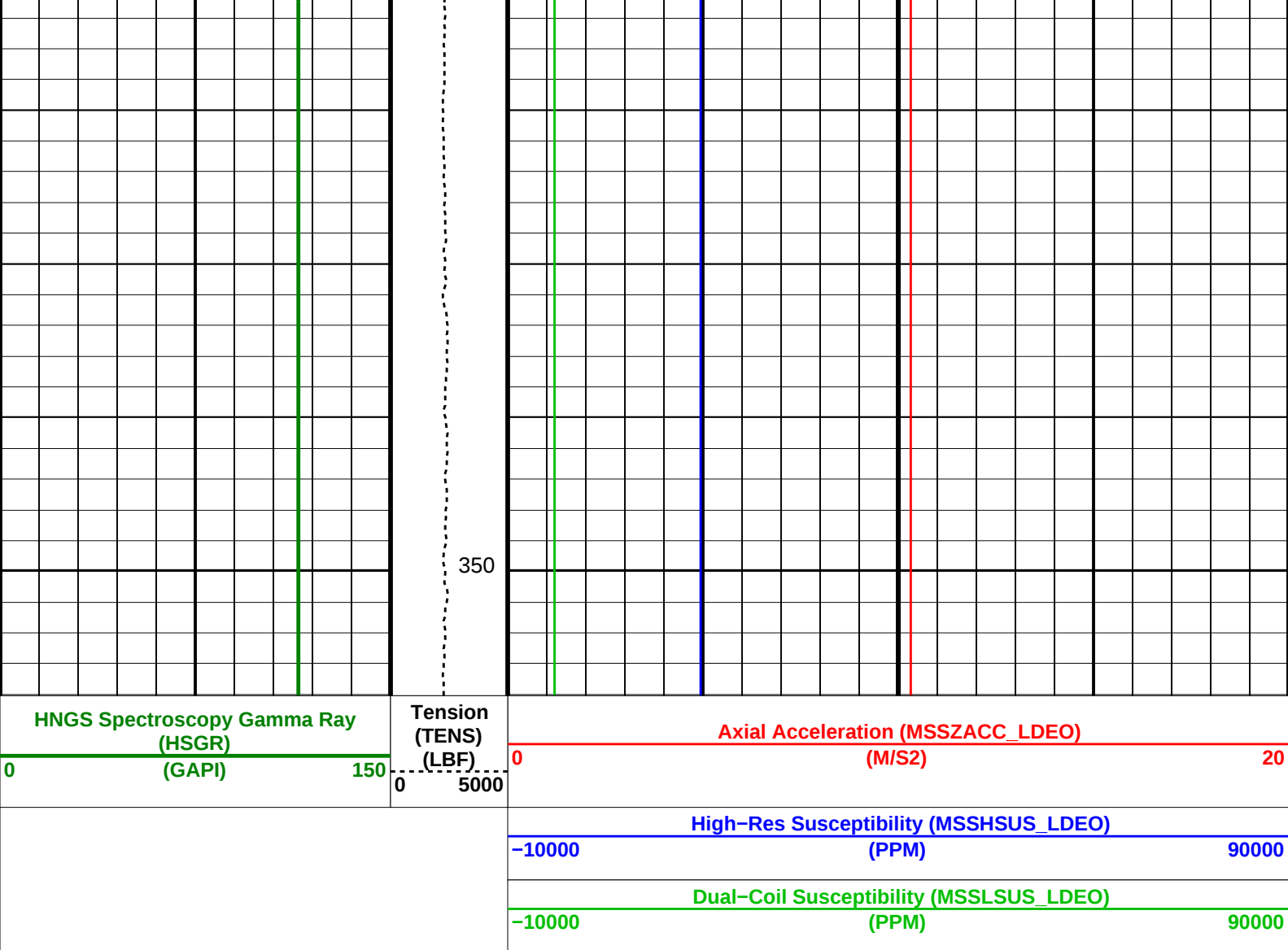












Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
BHS	HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
BHS	APS-C: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
BHS	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	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	-0.00186494	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01327	

VBA2	EDTC-B: Enhanced DTS Cartridge	HNGS Detector 2 Variable Barite Factor Running Average	1.00569
BHS	Borehole Status		OPEN
GCSE	Generalized Caliper Selection		LCAL
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.05	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	OFF	

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 24-Aug-2012 19:27

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_047PUP	PRODUCER	24-Aug-2012 19:26	354.0 M	-49.5 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_048PUP	FN:60	PRODUCER	24-Aug-2012 19:27
CLIENT	MSS_LDEO_HRLA_LDL_048PUC	FN:61	CUSTOMER	24-Aug-2012 19:27

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01							
Before: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT M0-M1 Voltage Plus - 0	0	N/A	-319.6	-319.4	0.2041	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-338.0	-338.2	-0.2024	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-337.0	-337.7	-0.7527	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-339.7	-340.4	-0.6500	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-326.6	-327.0	-0.3691	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-322.4	-322.8	-0.3436	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	329.6	329.5	-0.1481	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: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT M1-M2 Voltage Plus - 0	0	N/A	1756	1756	-0.6158	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1856	1857	0.9617	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1846	1850	4.336	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1861	1865	3.586	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1792	1793	1.703	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1770	1771	1.726	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1818	-1817	0.3804	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: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35							
HRLT M2-M3 Voltage Plus - 0	0	N/A	1743	1741	-1.801	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1855	1855	0.05615	53.42	UV

HRLT M2-M3 Voltage Plus - 2	0	N/A	1846	1849	3.004	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1865	1867	2.499	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1788	1789	0.4794	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1767	1768	0.9688	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1805	-1803	1.592	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: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35

HRLT A3-A4 Voltage Plus - 0	0	N/A	68490	68480	-6.898	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	72670	72730	55.78	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	72620	72790	173.3	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	73650	73790	141.9	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	70590	70670	84.90	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	69790	69860	67.97	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-69690	-69700	-4.336	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: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35

HRLT A4-A5 Voltage Plus - 0	0	N/A	68770	68770	-6.273	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	73080	73130	47.55	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	72990	73150	162.7	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	74000	74160	158.6	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	70890	70980	84.23	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	70070	70140	70.54	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-70090	-70090	0.8594	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: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35

HRLT A5-A6 Voltage Plus - 0	0	N/A	68670	68670	1.883	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	72800	72850	57.60	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	72750	72920	164.3	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	73780	73950	167.0	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	70750	70840	94.93	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	69950	70040	95.79	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-69820	-69820	-2.602	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: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68360	-68350	8.391	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-73140	-73190	-48.68	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-73060	-73230	-169.7	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-74090	-74240	-149.0	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-70970	-71050	-78.51	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-70110	-70190	-76.04	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	70100	70100	-3.305	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: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68350	-68340	11.38	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-73100	-73170	-66.95	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-73030	-73210	-177.5	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-74060	-74230	-162.8	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-70950	-71030	-87.45	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-70110	-70190	-84.08	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	70080	70080	0.8281	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: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35

HRLT Source Current Plus - 0	0	N/A	284.9	284.9	-0.02887	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: 21-Aug-2012 17:43 After: 21-Aug-2012 20:35

HRLT Vertical Voltage PI - 0	0	N/A	-321.9	-321.5	0.4278	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-332.0	-332.0	-0.006592	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-330.2	-330.8	-0.5406	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-331.3	-331.8	-0.4989	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-316.0	-316.1	-0.08594	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-327.0	-327.2	-0.1545	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	-326.8	-326.4	0.3558	9.681	UV

HRLT Vertical Voltage PI – 6	0	N/A	336.8	336.4	–0.3550	9.681	UV
HRLT Vertical Voltage PI – 7	0	N/A	–322.7	–322.7	0	9.681	UV
Hostile Litho–Density Sonde Wellsite Calibration – Background Measurement							
Master: 3–Aug–2012 12:38	Before: 21–Aug–2012 17:46	After: 21–Aug–2012 20:59					
SS Cs Resolution Bkg	9.000	7.952	8.041	7.929	–0.1112	1.800	%
LS Cs Resolution Bkg	9.000	8.109	8.122	8.094	–0.02860	1.800	%
LSW1 Background	100.0	71.68	71.83	71.86	0.02771	3.000	CPS
LSW2 Background	100.0	68.54	66.87	67.12	0.2519	3.000	CPS
LSW3 Background	200.0	146.7	147.7	146.2	–1.504	6.000	CPS
LSW4 Background	250.0	177.8	177.9	178.8	0.8978	7.500	CPS
LSW5 Background	600.0	409.7	409.1	409.8	0.7755	18.00	CPS
SSW1 Background	100.0	81.22	80.95	80.92	–0.03426	3.000	CPS
SSW2 Background	200.0	145.7	142.7	143.5	0.8675	6.000	CPS
SSW3 Background	500.0	389.5	386.1	386.2	0.1094	15.00	CPS
SSW4 Background	270.0	200.9	202.5	201.8	–0.7112	8.100	CPS
SSW5 Background	200.0	146.3	145.8	144.3	–1.516	6.000	CPS
Hostile Litho–Density Sonde Wellsite Calibration – Aluminum Measurement							
Master: 3–Aug–2012 13:08							
LSW1 Aluminum	600.0	531.2	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	759.6	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	924.3	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	467.3	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	427.7	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2539	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6810	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9419	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3830	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	469.0	N/A	N/A	N/A	N/A	CPS
Hostile Litho–Density Sonde Wellsite Calibration – Lithology Measurement							
Master: 3–Aug–2012 13:03							
LSW1 Iron	400.0	367.3	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	618.0	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	815.0	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	424.5	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	392.6	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1845	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5678	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8586	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3500	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	417.1	N/A	N/A	N/A	N/A	CPS
Hostile Litho–Density Sonde Wellsite Calibration – Caliper Calibration							
Before: 3–Aug–2012 13:28							
HLDS Caliper Small Ring	12.00	N/A	15.62	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	19.44	N/A	N/A	N/A	IN
Accelerator–Porosity Tool Wellsite Calibration – Detector Background							
Master: 26–Jul–2012 12:44	Before: 21–Aug–2012 17:50	After: 21–Aug–2012 20:56					
Near Det Bkg Cntrate	30.00	32.40	31.99	30.83	–1.151	N/A	CPS
Far Det Bkg Cntrate	30.00	33.26	33.21	33.08	–0.1335	N/A	CPS
Array–1 Det Bkg Cntrate	30.00	29.98	29.85	28.78	–1.068	N/A	CPS
Array–2 Det Bkg Cntrate	30.00	29.00	29.26	29.63	0.3670	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.46	30.67	33.62	2.949	N/A	CPS
Accelerator–Porosity Tool Wellsite Calibration – Calibration Ratios							
Master: 26–Jul–2012 12:45							
Near/Far Calibration Ratio	0.9250	0.8878	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.065	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.018	N/A	N/A	N/A	N/A	
Accelerator–Porosity Tool Wellsite Calibration – Tank Check							
Master: 26–Jul–2012 12:45							
Array–1 Standoff Porosity	11.75	10.57	N/A	N/A	N/A	N/A	PU
Array–2 Standoff Porosity	11.75	10.16	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	6.071	N/A	N/A	N/A	N/A	US
Array–1 SDT Ratio Up/Down	1.000	0.9785	N/A	N/A	N/A	N/A	
Array–2 SDT Ratio Up/Down	1.000	0.9681	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	28.31	N/A	N/A	N/A	N/A	CU
Accelerator–Porosity Tool Wellsite Calibration – CCR7 signal boxes							
Master: 26–Jul–2012 12:07							
Near Detector Plateau Setting	1650	1735	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2080	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1966	N/A	N/A	N/A	N/A	V
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 15–Jul–2012 1:37	Before: 21–Aug–2012 17:48	After: 21–Aug–2012 21:00					
Na 511 Peak Loc	40.00	39.55	39.72	39.70	–0.01978	1.000	
Na 511 Peak Res	15.50	15.74	15.19	14.31	–0.8807	2.000	%

High Voltage	1150	1192	1137	1140	3.181	N/A	V
Na 1785 Peak Loc	142.6	141.9	142.9	142.4	-0.5346	7.000	
Na 1785 Peak Res	8.500	8.399	8.027	8.850	0.8229	2.000	%
Temperature	15.50	30.02	10.49	10.59	0.09754	N/A	DEGC
Na Count Rate	45.00	18.00	16.36	17.10	0.7449	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 15-Jul-2012 1:37 Before: 21-Aug-2012 17:48 After: 21-Aug-2012 21:00							
Na 511 Peak Loc	40.00	39.55	39.73	39.56	-0.1735	1.000	
Na 511 Peak Res	15.50	16.74	14.78	14.73	-0.05517	2.000	%
High Voltage	1150	1112	1075	1075	-0.2274	N/A	V
Na 1785 Peak Loc	142.6	142.2	143.4	141.5	-1.892	7.000	
Na 1785 Peak Res	8.500	9.140	7.340	9.782	2.442	2.000	%
Temperature	15.50	30.92	10.72	11.80	1.089	N/A	DEGC
Na Count Rate	45.00	18.43	16.45	17.17	0.7161	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 15-Jul-2012 1:37 Before: 21-Aug-2012 17:48 After: 21-Aug-2012 21:00							
Coincidence Count Rate Ratio	1.000	0.9742	0.9958	0.9997	0.003894	0.05000	
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration							
Before: 21-Aug-2012 17:57							
EDTC Z-Axis Acceleration	9.810	N/A	9.859	N/A	N/A	N/A	M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration							
Before: 21-Aug-2012 17:45 After: 21-Aug-2012 20:57							
Gamma Ray (Jig – Bkg)	163.2	N/A	163.2	162.5	-0.6715	14.83	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	164.3	-0.6790	15.00	GAPI
Accelerator-Porosity Tool – Detector Plateau Settings :							
Near Detector Plateau Setting	1735 V						
Far Detector Plateau Setting	2080 V						
Array Detector Plateau Setting	1966 V						

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	978
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		-319.6	-322.7	-280.7	-379.7
	After		-319.4			
1	Before		-338.0	-322.7	-280.7	-379.7
	After		-338.2			
2	Before		-337.0	-322.7	-280.7	-379.7
	After		-337.7			
3	Before		-339.7	-322.7	-280.7	-379.7
	After		-340.4			
4	Before		-326.6	-322.7	-280.7	-379.7
	After		-327.0			
5	Before		-322.4	-322.7	-280.7	-379.7
	After		-322.8			
6	Before		329.6	322.7	379.7	280.7
	After					

	After		329.5			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
(Minimum) (Nominal) (Maximum)						
Before: 21-Aug-2012 17:43						
After: 21-Aug-2012 20:35						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1756	1781	2095	1549
	After		1756			
1	Before		1856	1781	2095	1549
	After		1857			
2	Before		1846	1781	2095	1549
	After		1850			
3	Before		1861	1781	2095	1549
	After		1865			
4	Before		1792	1781	2095	1549
	After		1793			
5	Before		1770	1781	2095	1549
	After		1771			
6	Before		-1818	-1781	-1549	-2095
	After		-1817			
7	Before		1781	1781	2095	1549
	After		1781			
(Minimum) (Nominal) (Maximum)						
Before: 21-Aug-2012 17:43						
After: 21-Aug-2012 20:35						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1743	1781	2095	1549
	After		1741			
1	Before		1855	1781	2095	1549
	After		1855			
2	Before		1846	1781	2095	1549
	After		1849			
3	Before		1865	1781	2095	1549
	After		1867			
4	Before		1788	1781	2095	1549
	After		1789			
5	Before		1767	1781	2095	1549
	After		1768			
6	Before		-1805	-1781	-1549	-2095
	After		-1803			
7	Before		1781	1781	2095	1549
	After					

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68490	70000	82360	60900
	After		68480			
1	Before		72670	70000	82360	60900
	After		72730			
2	Before		72620	70000	82360	60900
	After		72790			
3	Before		73650	70000	82360	60900
	After		73790			
4	Before		70590	70000	82360	60900
	After		70670			
5	Before		69790	70000	82360	60900
	After		69860			
6	Before		-69690	-70000	-60900	-82360
	After		-69700			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				

Before: 21–Aug–2012 17:43

After: 21–Aug–2012 20:35

01 1 0010 17 10

Before: 21-Aug-2012 17:43

After: 21-Aug-2012 20:35

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68670	70000	82360	60900
	After		68670			
1	Before		72800	70000	82360	60900
	After		72850			
2	Before		72750	70000	82360	60900
	After		72920			
3	Before		73780	70000	82360	60900
	After		73950			
4	Before		70750	70000	82360	60900
	After		70840			
5	Before		69950	70000	82360	60900
	After		70040			
6	Before		–69820	–70000	–60900	–82360
	After		–69820			
7	Before		70000	70000	82360	60900
	After		70000			
(Minimum) (Nominal) (Maximum)						

Before: 21-Aug-2012 17:43

After: 21-Aug-2012 20:35

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		–68360	–70000	–60900	–82360
	After		–68350			
1	Before		–73140	–70000	–60900	–82360
	After		–73190			
2	Before		–73060	–70000	–60900	–82360
	After		–73230			
3	Before		–74090	–70000	–60900	–82360
	After		–74240			
4	Before		–70970	–70000	–60900	–82360
	After		–71050			
5	Before		–70110	–70000	–60900	–82360
	After		–70190			
6	Before		70100	70000	82360	60900
	After		70100			
7	Before		–70000	–70000	–60900	–82360
	After		–70000			
(Minimum) (Nominal) (Maximum)						

Before: 21-Aug-2012 17:43

After: 21-Aug-2012 20:35

High Resolution Laterolog Array – B Wellsite Calibration

HRLT VBD							
Idx	Phase	HRLT Bridle#9–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68350	-70000	-60900	-82360	
	After		-68340				
1	Before		-73100	-70000	-60900	-82360	
	After		-73170				
2	Before		-73030	-70000	-60900	-82360	
	After		-73210				
3	Before		-74060	-70000	-60900	-82360	
	After		-74230				
4	Before		-70950	-70000	-60900	-82360	
	After		-71030				
5	Before		-70110	-70000	-60900	-82360	
	After		-70190				
6	Before		70080	70000	82360	60900	
	After		70080				
7	Before		-70000	-70000	-60900	-82360	
	After		-70000				
		(Minimum) (Nominal) (Maximum)					
Before: 21–Aug–2012 17:43							
After: 21–Aug–2012 20:35							

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT ISO							
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum	
0	Before		284.9	284.0	334.1	247.0	
	After		284.9				
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)					
Before: 21–Aug–2012 17:43							
After: 21–Aug–2012 20:35							

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT MV							
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum	
							

0	Before		-321.9	-322.7	-280.7	-379.7
	After		-321.5			
1	Before		-332.0	-322.7	-280.7	-379.7
	After		-332.0			
2	Before		-330.2	-322.7	-280.7	-379.7
	After		-330.8			
3	Before		-331.3	-322.7	-280.7	-379.7
	After		-331.8			
4	Before		-316.0	-322.7	-280.7	-379.7
	After		-316.1			
5	Before		-327.0	-322.7	-280.7	-379.7
	After		-327.2			
6	Before		336.8	322.7	379.7	280.7
	After		336.4			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
(Minimum) (Nominal) (Maximum)						
Before: 21-Aug-2012 17:43						
After: 21-Aug-2012 20:35						

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:

Hostile Litho Density Sonde

Hostile Litho Density High Voltage

Gamma Source Radioactive

HLDS - D

45

HLDV - D

45

GSR - Z

8113

Auxiliary Equipment:

Hostile Litho Density Pad

Hostile Litho Density High Voltage Housi

HLDP - C

45

HEH - H

47

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		7.952	Master		8.109	Master		71.68
Before		8.041	Before		8.122	Before		71.83
After		7.929	After		8.094	After		71.86
7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (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		68.54	Master		146.7	Master		177.8
Before		66.87	Before		147.7	Before		177.9
After		67.12	After		146.2	After		178.8
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		409.7	Master		81.22	Master		145.7
Before		409.1	Before		80.95	Before		142.7
After		409.8	After		80.92	After		143.5
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		389.5	Master		200.9	Master		146.3
Before			Before			Before		
After			After			After		

Before		386.1	Before		202.5	Before		145.8
After		386.2	After		201.8	After		144.3
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: 3-Aug-2012 12:38			Before: 21-Aug-2012 17:46			After: 21-Aug-2012 20:59		

Litho-Density Spectroscopy Cartridge – B / Equipment Identification

Primary Equipment:		
LDSC Cartridge	LDSC – B	521
Auxiliary Equipment:		
LDSC Housing	LDSH – A	319

Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:		
Accelerator-Porosity Sonde	APS – C	22
APS Minitron	MNTR – F	5978
Auxiliary Equipment:		
Accelerator-Porosity Housing	APH – AC	22
APS Calibration Water Tank	SFT – 178	1
APS Aluminum Calibrator Sleeve	SFT – 281	1

Accelerator-Porosity Tool Wellsite Calibration

Detector Background

Near Det Bkg Cntrate CPS			Value	Far Det Bkg Cntrate CPS			Value	Array-1 Det Bkg Cntrate CPS			Value
Phase				Phase				Phase			
Master			32.40	Master			33.26	Master			29.98
Before			31.99	Before			33.21	Before			29.85
After			30.83	After			33.08	After			28.78
1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)				1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)				1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			
Array-2 Det Bkg Cntrate CPS			Value	Array Therm Det Bkg Cntrate CPS			Value				
Phase				Phase							
Master			29.00	Master			32.46				
Before			29.26	Before			30.67				
After			29.63	After			33.62				
1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)				1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)							

Master: 26-Jul-2012 12:44 Before: 21-Aug-2012 17:50 After: 21-Aug-2012 20:56

Accelerator-Porosity Tool Wellsite Calibration

Calibration Ratios

Phase	Near/Far Calibration Ratio	Value	Phase	Near/Array Calibration Ratio	Value	Phase	Near/Array Cal Ratio Up/Down	Value
Master		0.8878	Master		1.065	Master		1.018
0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)			0.9000 (Minimum) 1.030 (Nominal) 1.170 (Maximum)			0.9700 (Minimum) 1.000 (Nominal) 1.030 (Maximum)		

Master: 26-Jul-2012 12:45

Accelerator-Porosity Tool Wellsite Calibration

Tank Check

Phase	Array-1 Standoff Porosity PU	Value	Phase	Array-2 Standoff Porosity PU	Value	Phase	Average Slowing Down Time US	Value
Master		10.57	Master		10.16	Master		6.071
9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)		
Phase	Array-1 SDT Ratio Up/Down	Value	Phase	Array-2 SDT Ratio Up/Down	Value	Phase	Sigma Formation CU	Value
Master		0.9785	Master		0.9681	Master		28.31
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)		

Master: 26-Jul-2012 12:45

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

Na 511 Peak Loc			Value	Na 511 Peak Res %			Value	High Voltage V			Value
Master			39.55	Master			15.74	Master			1192
Before			39.72	Before			15.19	Before			1137
After			39.70	After			14.31	After			1140
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)			
Na 1785 Peak Loc			Value	Na 1785 Peak Res %			Value	Temperature DEGC			Value
Master			141.9	Master			8.399	Master			30.02
Before			142.9	Before			8.027	Before			10.49
After			142.4	After			8.850	After			10.59
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)			
Na Count Rate CPS			Value								
Master			18.00								
Before			16.36								
After			17.10								
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)											
Master: 15-Jul-2012 1:37				Before: 21-Aug-2012 17:48				After: 21-Aug-2012 21:00			

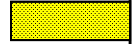
Master: 15-Jul-2012 1:37

Before: 21-Aug-2012 17:48

After: 21-Aug-2012 21:00

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

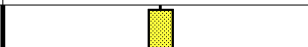
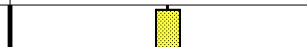
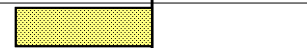
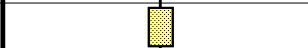
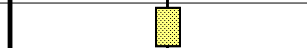
Detector 1 Check			Detector 2 Check						
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value	
Master		39.55	Master		16.74	Master		1112	
Before		39.73	Before		14.78	Before		1075	
After		39.56	After		14.73	After		1075	
	37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)	12.00 (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		142.2	Master		9.140	Master		30.92	
Before		143.4	Before		7.340	Before		10.72	
After		141.5	After		9.782	After		11.80	
	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		18.43							
Before		16.45							
After		17.17							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						

BEFORE-AFTER LIMIT

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9742
Before		0.9958
After		0.9997
0.9500 1.000 1.050 (Minimum)(Nominal)(Maximum)		
Master: 15-Jul-2012 1:37		
Before: 21-Aug-2012 17:48		
After: 21-Aug-2012 21:00		

Enhanced DTS Cartridge / Equipment Identification		
Primary Equipment:		
EDTC Gamma Ray Detector	EDTG – A/B	77693
Enhanced DTS Cartridge	EDTC – B	8529
Auxiliary Equipment:		
EDTC Housing	EDTH – B	8528

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.859
9.610 9.810 10.01 (Minimum)(Nominal)(Maximum)		
Before: 21-Aug-2012 17:57		

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			1.756	Before			163.2	Before			165.0					
After			4.001	After			162.5	After			164.3					
0 (Minimum)			30.00 (Nominal)	120.0 (Maximum)			148.3 (Minimum)			163.2 (Nominal)	178.0 (Maximum)	150.0 (Minimum)			165.0 (Nominal)	180.0 (Maximum)
Before: 21-Aug-2012 17:45							After: 21-Aug-2012 20:57									

Company:	Lamont Doherty Earth Observatory	
	Shell	
Well:	Expedition 344S, U0080A (USC80)	
Field:	Baffin Bay	
Rig:	JOIDES Resolution	
Country:	USA	
LDEO MSS		
Magnetic Susceptibility		