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OTHER SERVICES1
 OS1: FMS
 OS2: DSI
 OS3: HRLA
 OS4: VSI
 OS5: HLDS

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

REMARKS: RUN NUMBER 1
 Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8" BS
 Lamont Magnetic Susceptibility (MSS) tool run in combination with HRLA/HLDS/HNGS
 2 knuckle joints decouple the eccentered HLDS and HNGS from the centered HRLA
 and MSS. A thru wired ECH-MRA separates the 2 knuckles for added capability.

 2 MCD (mechanical Caliper Device) centralizers run with HRLA.
 LDEO-MSS tool run below HRLA consisting of a deep reading sensor only with the
 electronics cartridge and ELIC.
 RCB coring bit released on bottom of hole prior to logging to allow
 wireline tools to pass out of drill collars/pipe into open hole.
 Downlog used for repeat section.

REMARKS: RUN NUMBER 2

RUN 1		
SERVICE ORDER #:		
PROGRAM VERSION:	19C0-187	
FLUID LEVEL:		
LOGGED INTERVAL	START	STOP

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

EQUIPMENT DESCRIPTION





RUN 1

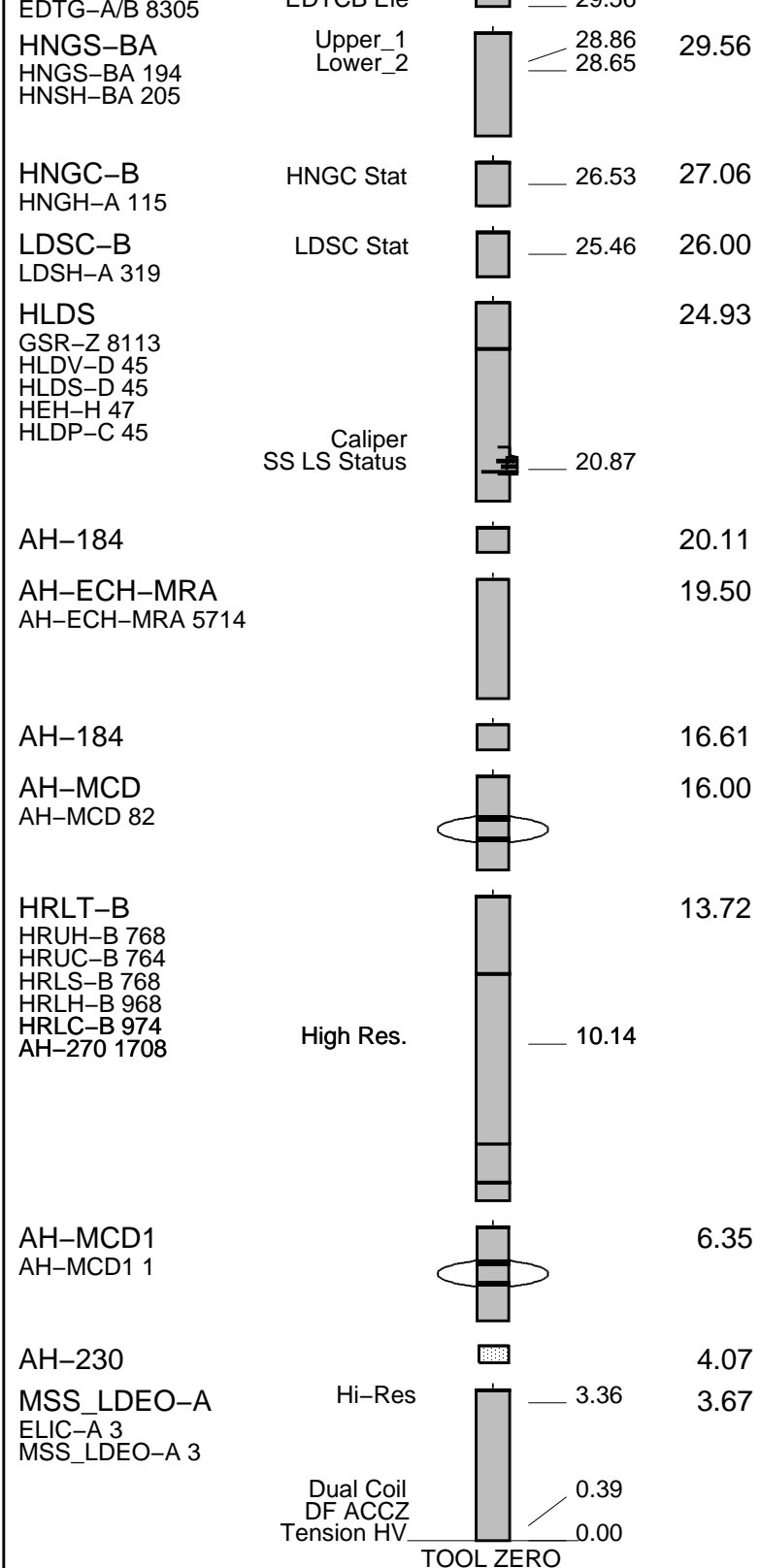
SURFACE EQUIPMENT

GSR-U 616008
 WITM (EDTS)-A

RUN 2

DOWNHOLE EQUIPMENT

LEH-MT 101			32.94	
LEH-MT 101 101	MDSB_EDTC			
AH-369	Mud Tempe		31.54	31.98
	CTEM		30.48	
EDTC-B	Gamma Ray		29.91	31.54
EDTH-B 8303	EFTB DIAG			
EDTC-B 8317	TelStatus			
	EDTCB Fla		29.56	



MAXIMUM STRING DIAMETER 4.50 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN METERS

Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID		MD	MD	

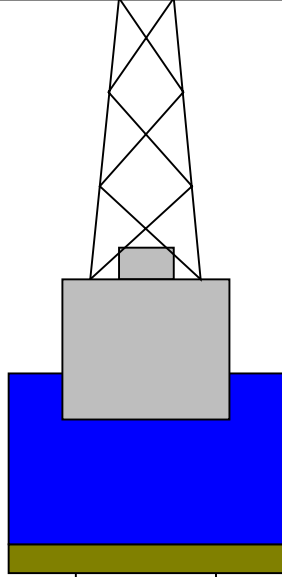
Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-3678

-3678

-3667



4.1



0

4.1

Sea Floor

99

9.875

Open Hole

948.7

Total Depth

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:17	PRODUCER	08-Jul-2013 13:43	4248.9 M	3606.7 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_014PUP	FN:19	PRODUCER	08-Jul-2013 14:11	571.5 M	-102.6 M
DLISBACKUP	MSS_LDEO_HRLA_LDL_014PUP	FN:20	PRODUCER	08-Jul-2013 14:11	571.5 M	-102.6 M

OP System Version: 19C0-187

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

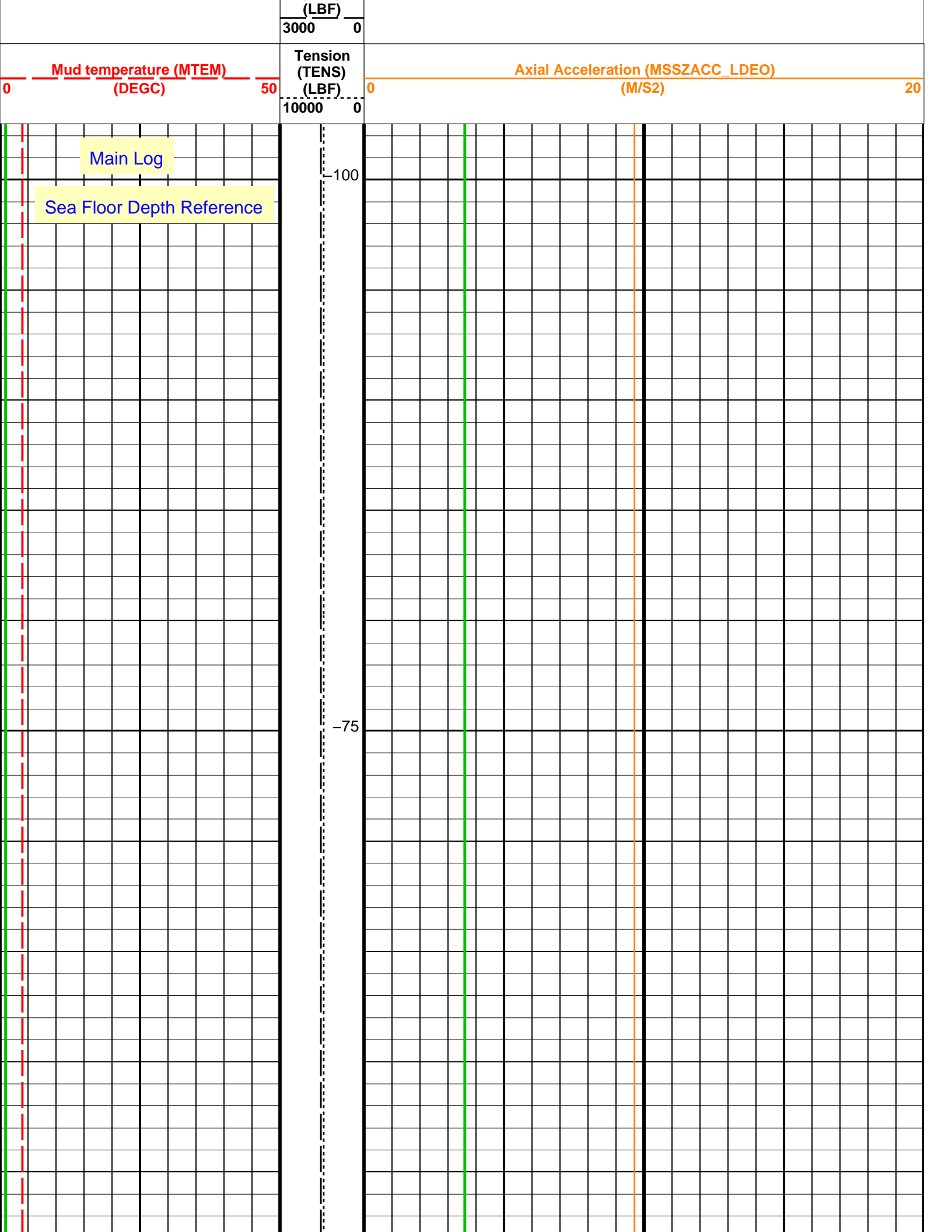
Changed Parameter Summary

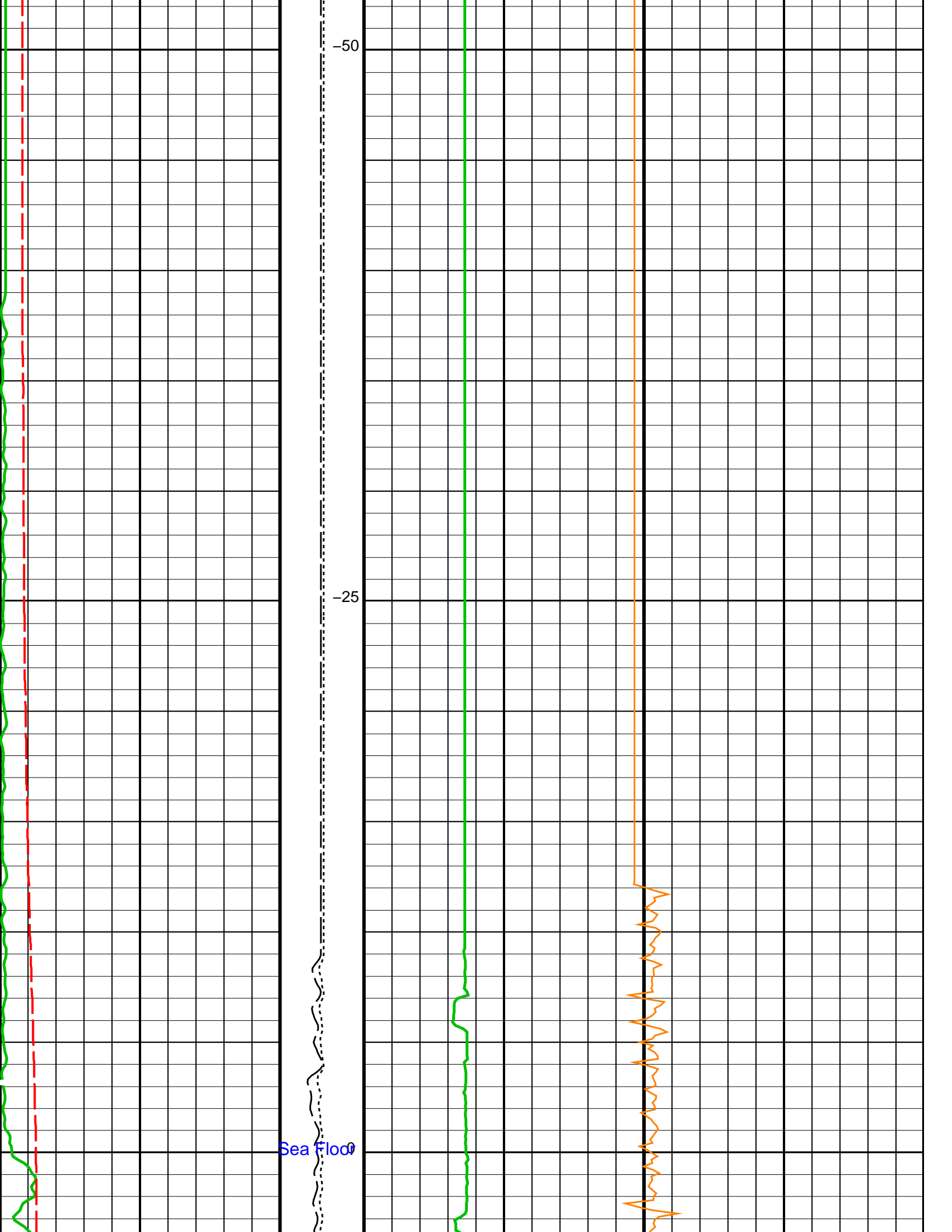
DLIS Name	New Value	Previous Value	Depth & Time
GCSE	BS	BS	571.5 14:11:56

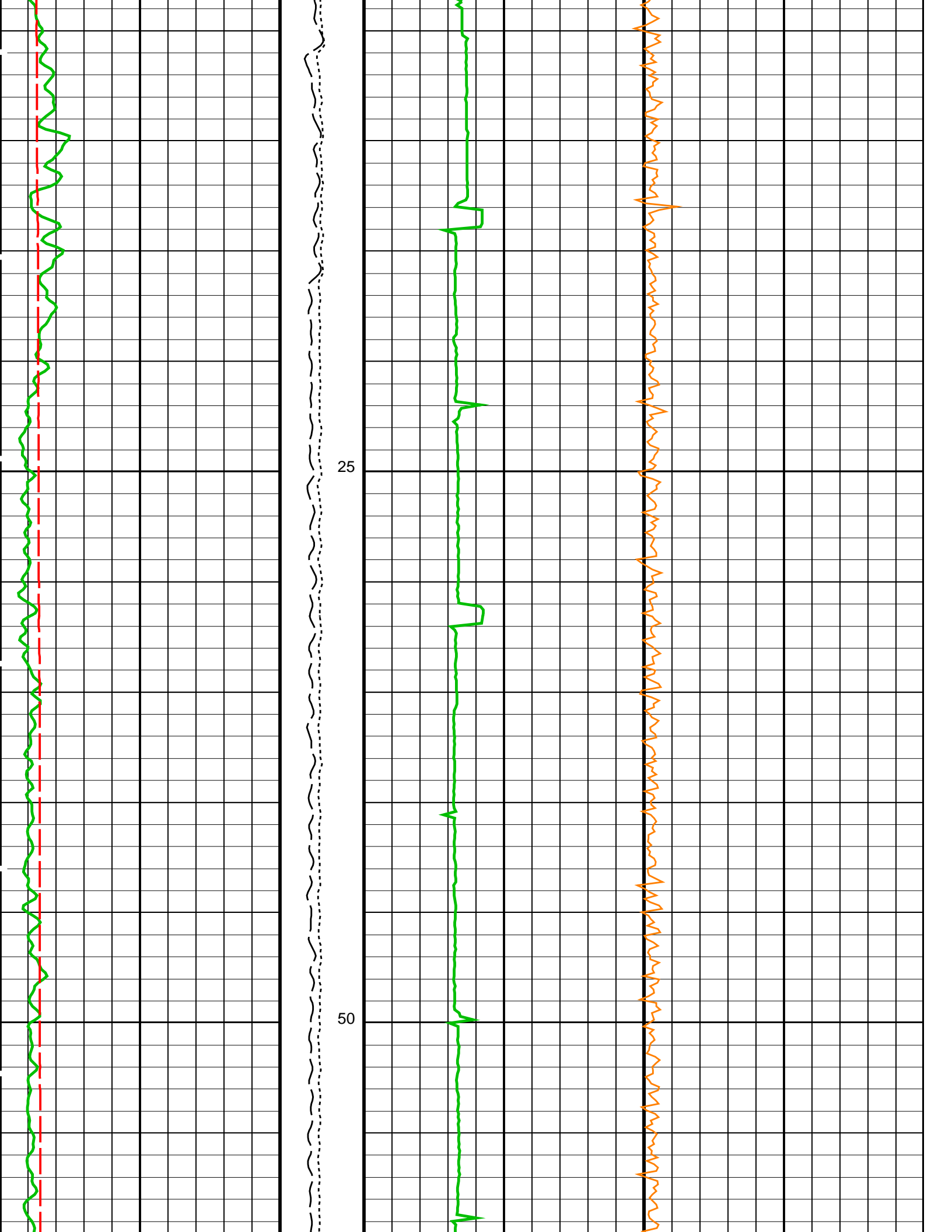
PIP SUMMARY

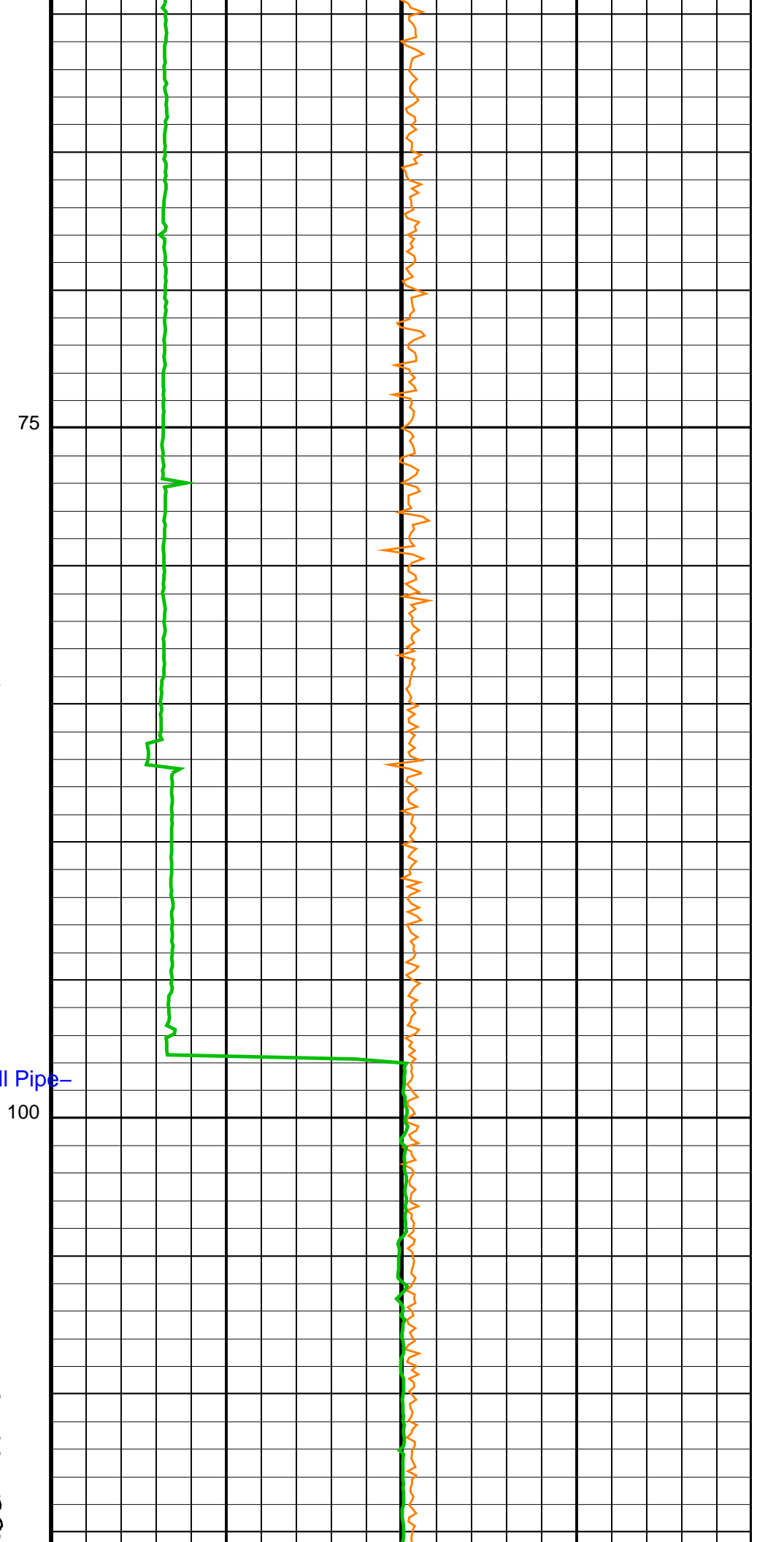
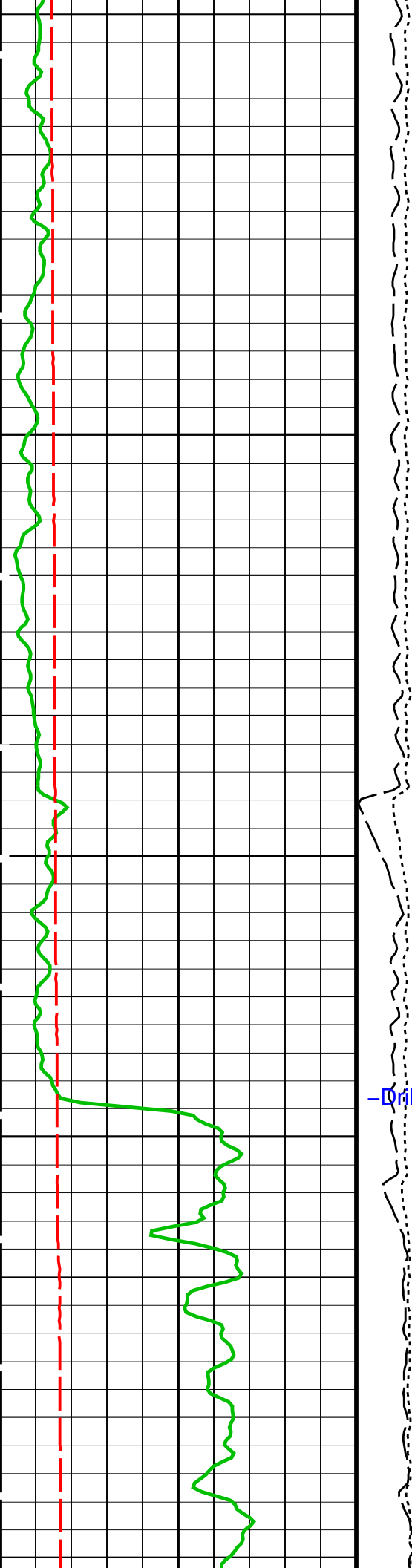
Time Mark Every 60 S

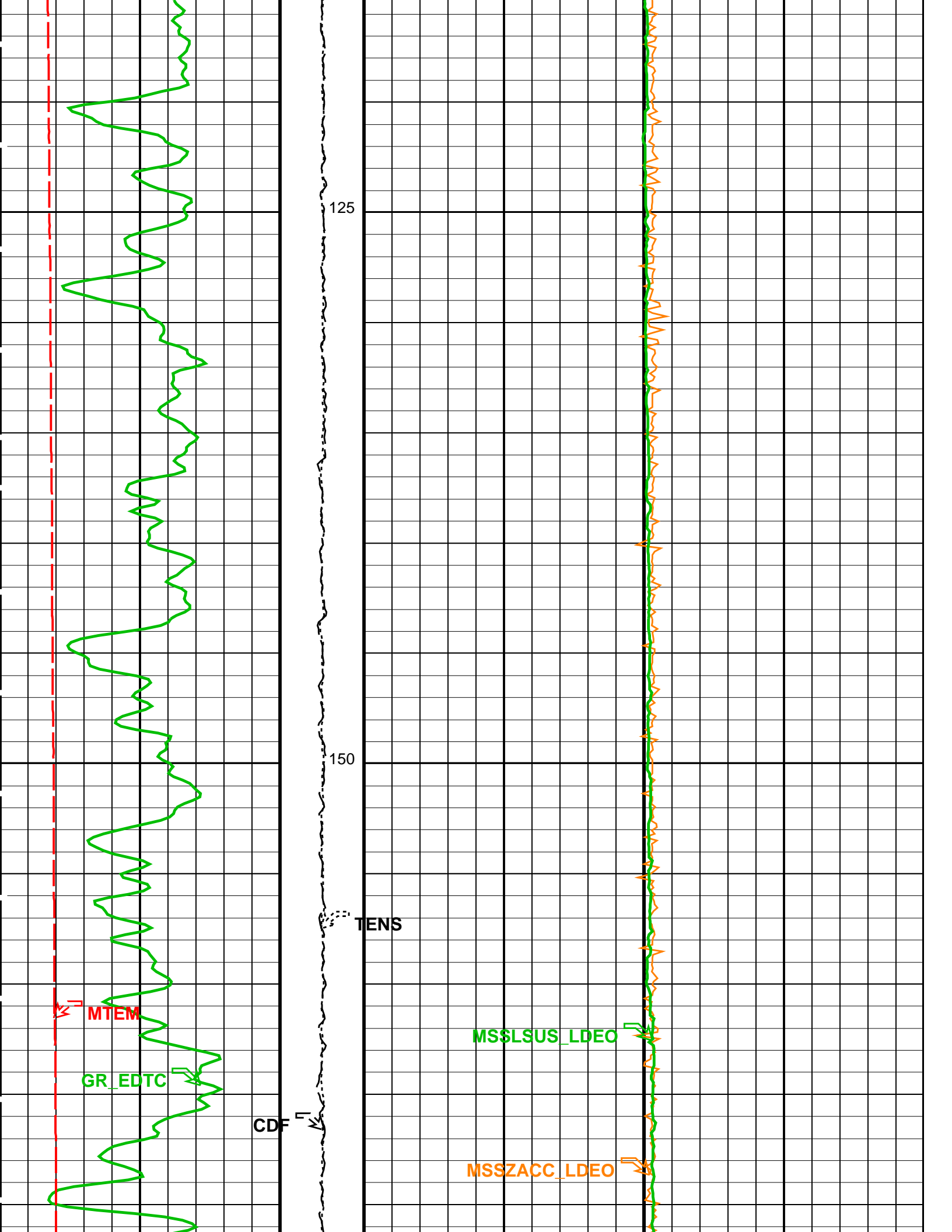
Gamma Ray (GR_EDTC)	Calibrated Downhole Force (CDF)	Dual-Coil Susceptibility (MSSLUS_LDEO)	
0 (GAPI) 75		-20000 (PPM)	20000

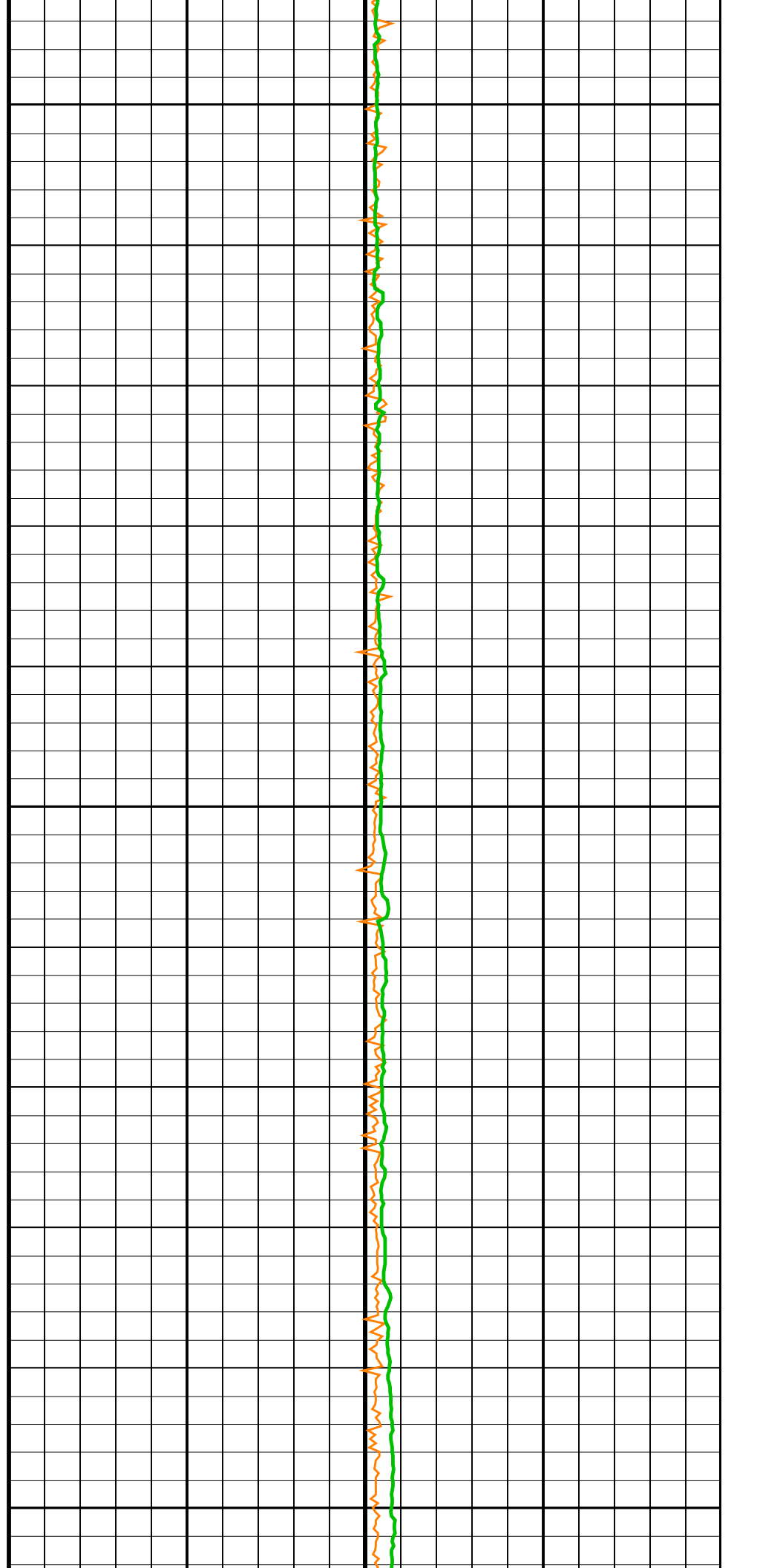
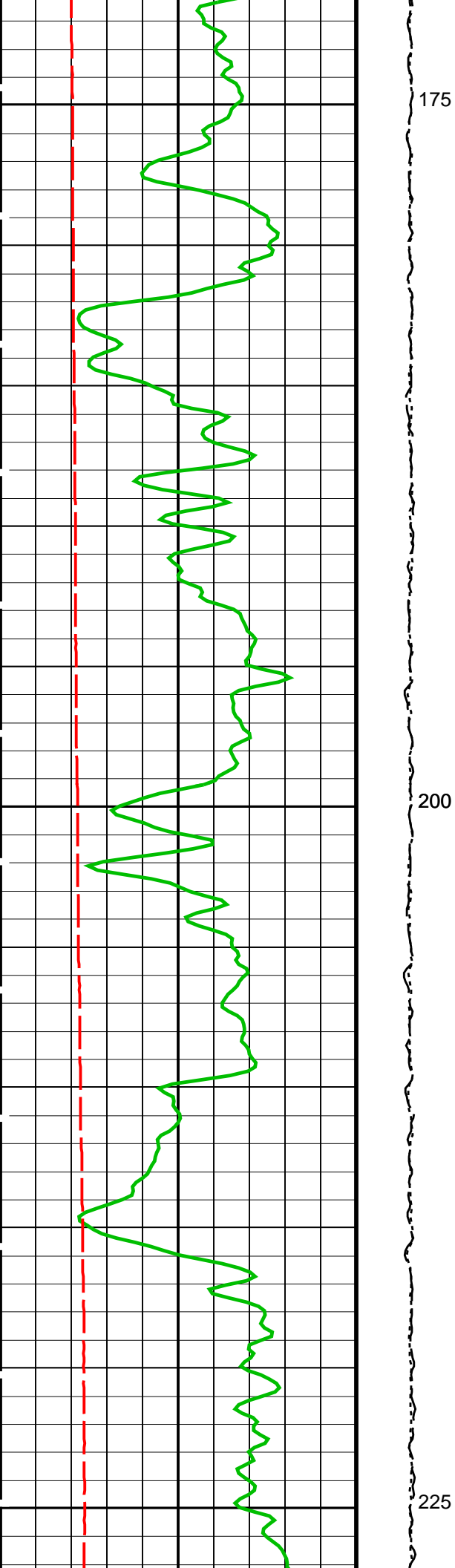


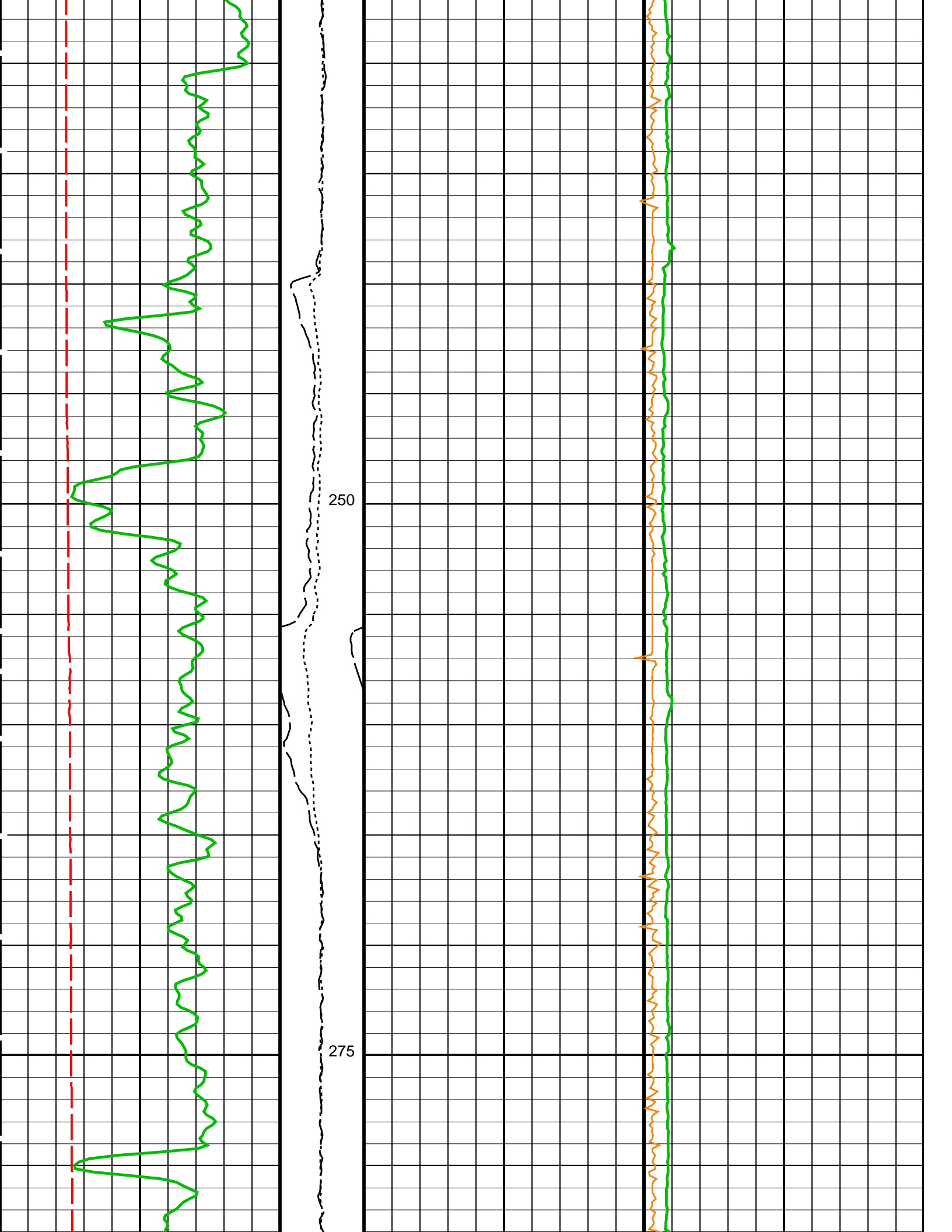


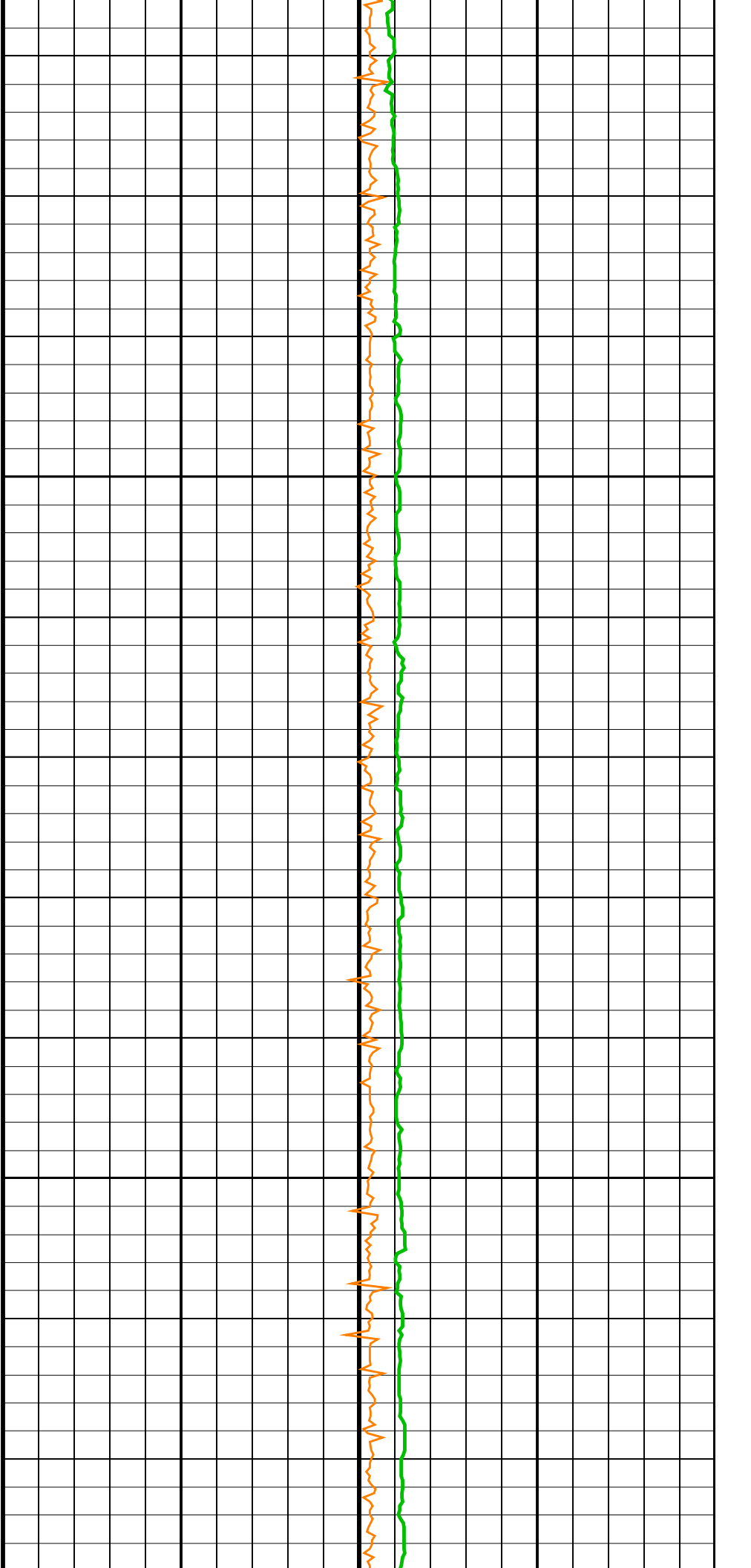
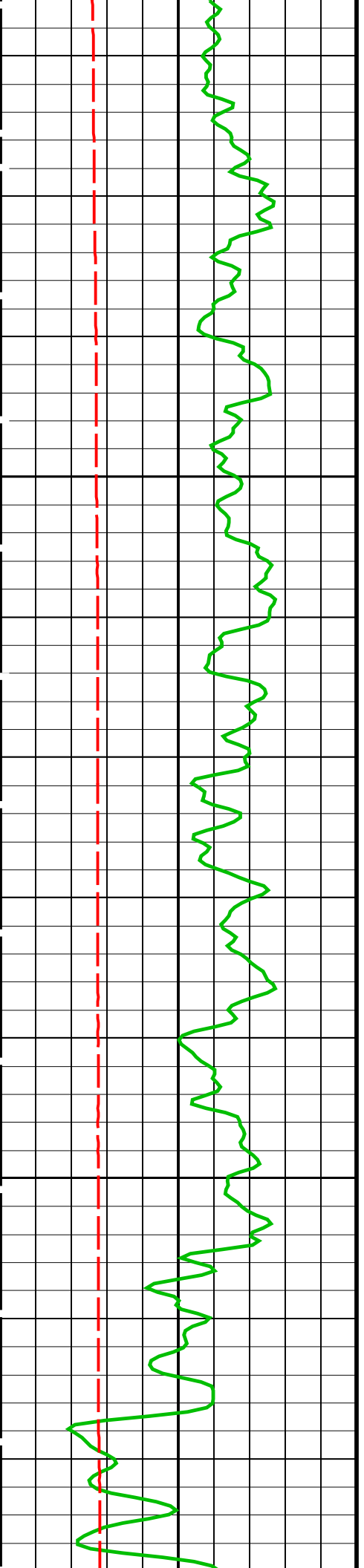


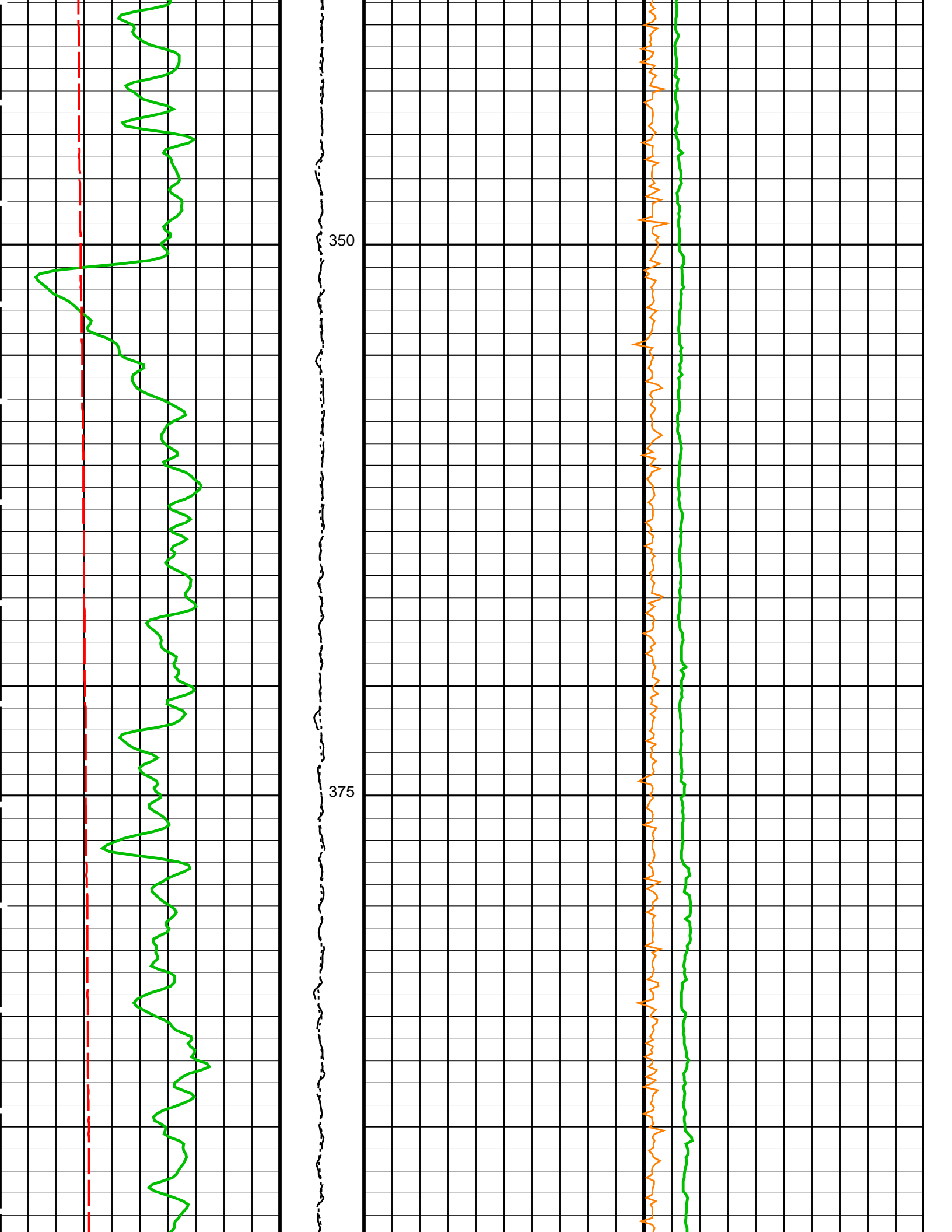


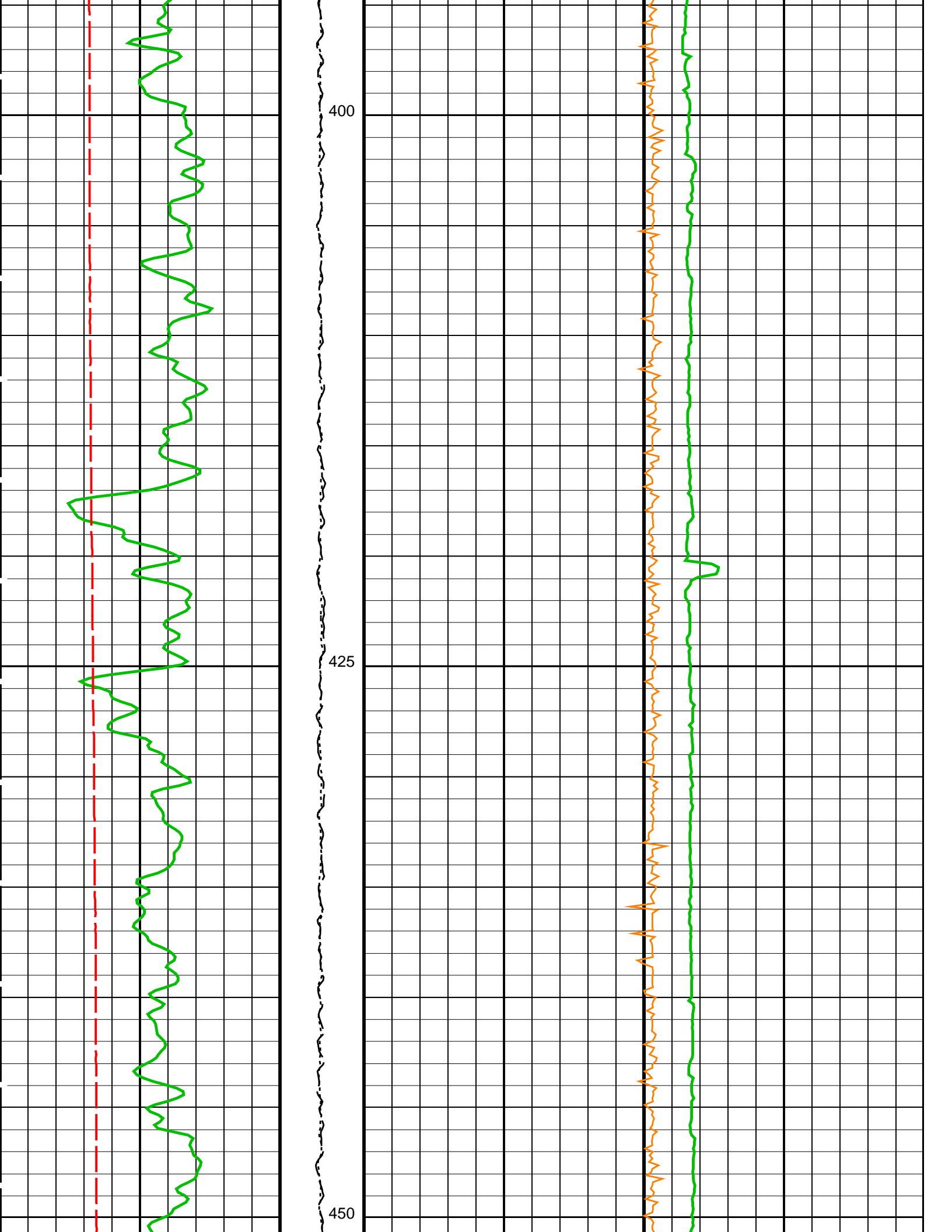


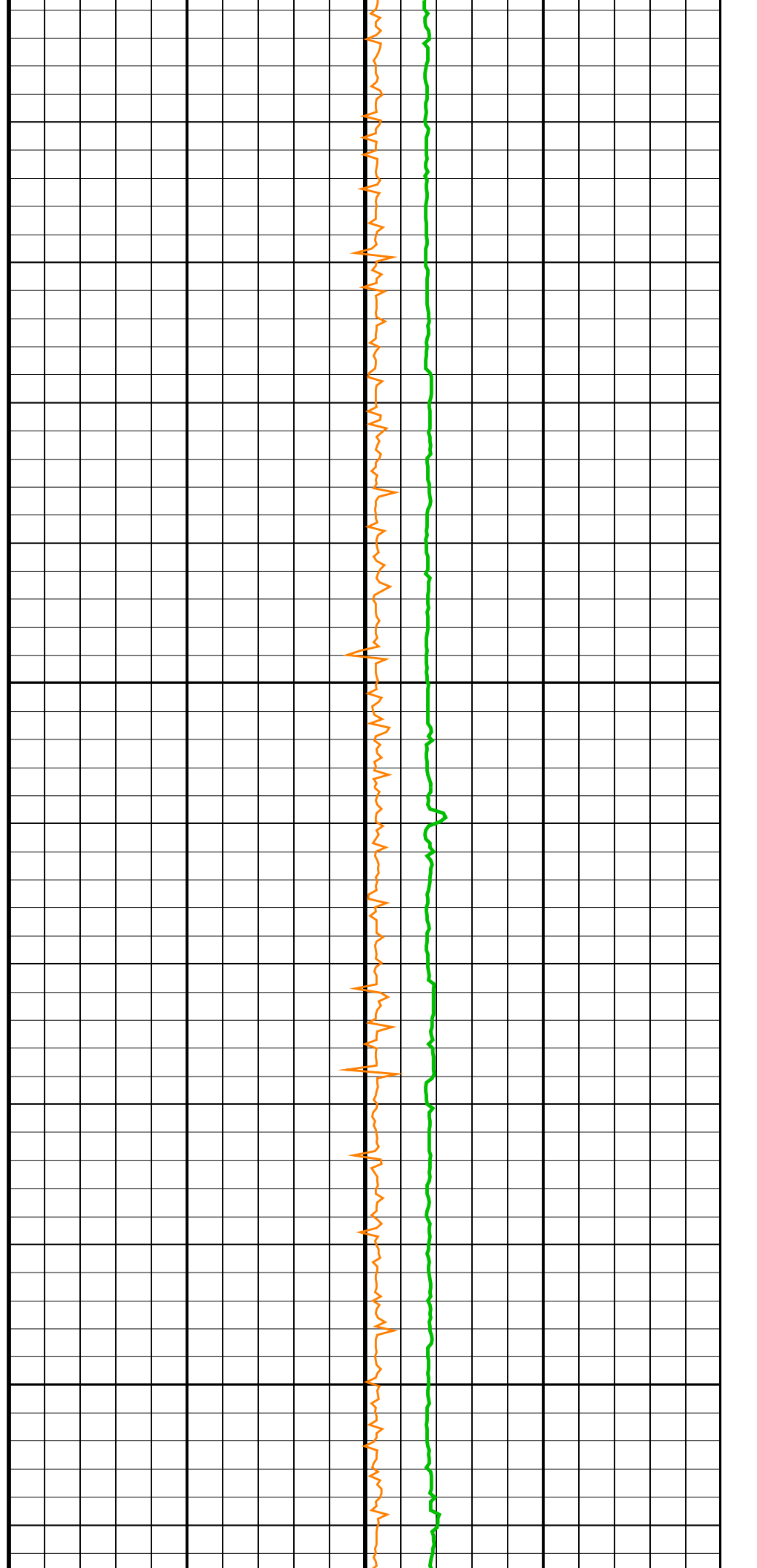
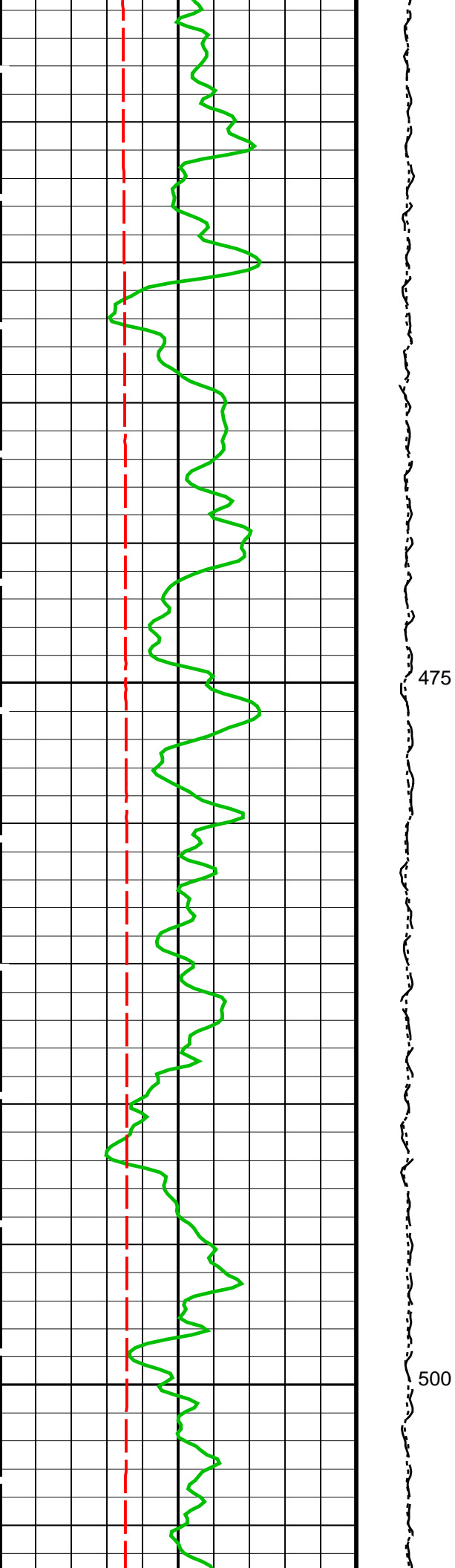


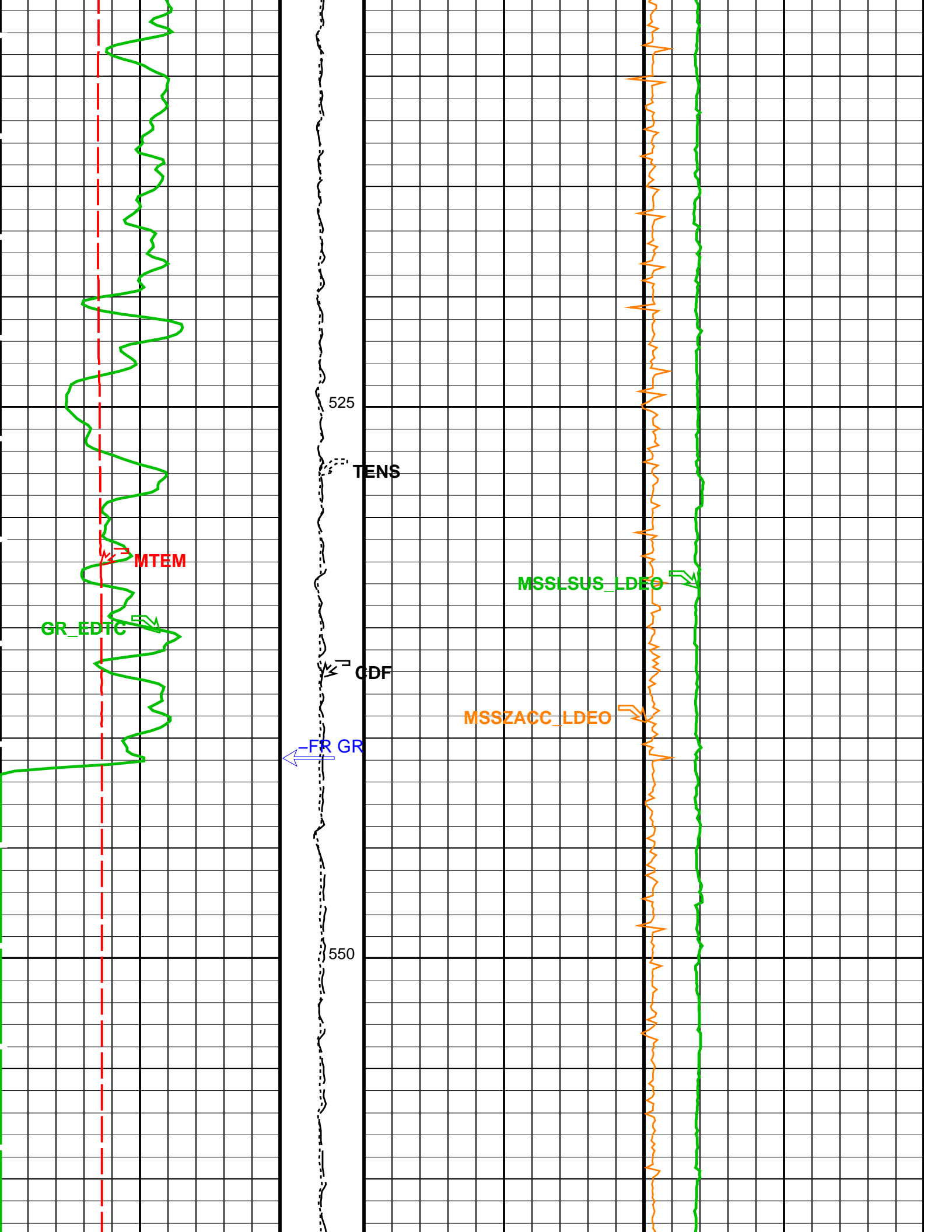


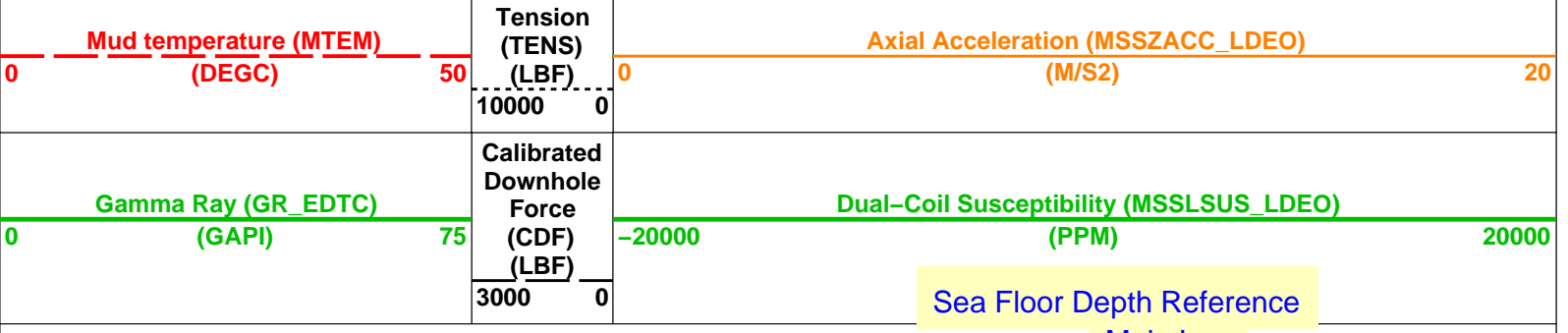
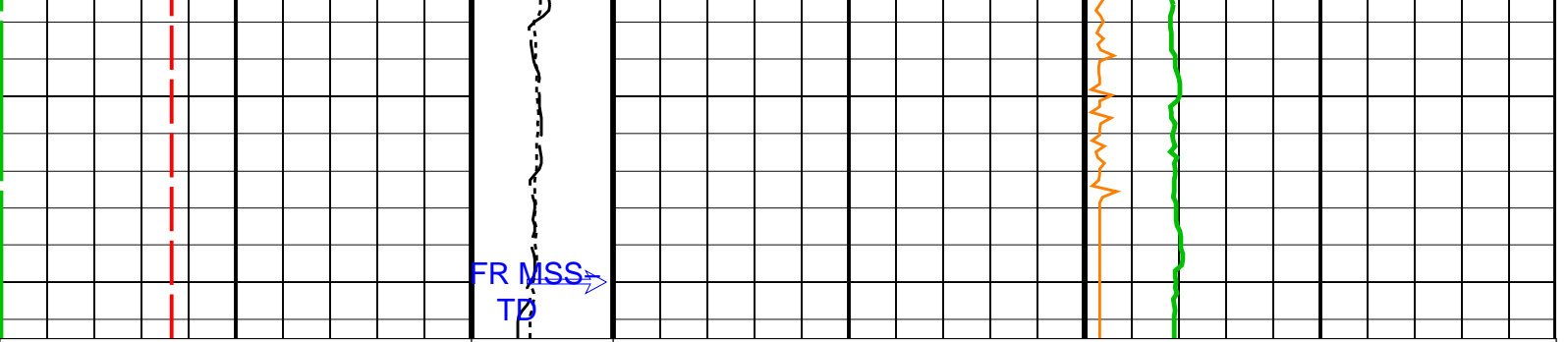












PIP SUMMARY

[Main Log](#)

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	14.1096	DEGC
FREQ0	HRLT Frequency Index for Mode 0	32	
FREQ1	HRLT Frequency Index for Mode 1	128	
FREQ2	HRLT Frequency Index for Mode 2	104	
FREQ3	HRLT Frequency Index for Mode 3	86	
FREQ4	HRLT Frequency Index for Mode 4	56	
FREQ5	HRLT Frequency Index for Mode 5	44	
FREQ6	HRLT Frequency Index for Mode 6	116	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
LOOPCOEF_S	HRLT Loop Coefficient for Shallow Modes	LOW	
LOOPMOD0	HRLT Mode 0 Loop Mode	OFF	
LOOPMOD1	HRLT Mode 1 Loop Mode	OFF	
LOOPMOD2	HRLT Mode 2 Loop Mode	OFF	
LOOPMOD3	HRLT Mode 3 Loop Mode	OFF	
LOOPMOD4	HRLT Mode 4 Loop Mode	OFF	
LOOPMOD5	HRLT Mode 5 Loop Mode	OFF	
LOOPMOD6	HRLT Mode 6 Loop Mode	OFF	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROCINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	0	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSP0	Sonde Position	Centered	
SHT	Surface Hole Temperature	9	DEGC
HLDS: Hostile Litho-Density Sonde			
CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
M DEN	Matrix Density	2.71	G/C3
PHVI	HLDS Long Spacing High Voltage Setting	1000	V

PHVS	HLDS Spacing High Voltage Setting	1000	V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000	
PSDS	HLDS SS Pulse Shape Compensation DAC	30000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	

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	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
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	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00218346	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
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	
SHT	Surface Hole Temperature	9	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.00893	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00784	

EDTC-B: Enhanced DTS Cartridge

BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	YES	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	9	DEGC
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	

System and Miscellaneous

ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	-3678.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	OFF	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	4627	M
TDD	Total Depth - Driller	4627.00	M
TDL	Total Depth - Logger	4627.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:17	PRODUCER	08-Jul-2013 13:43	4248.9 M	3606.7 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_014PUP	FN:19	PRODUCER	08-Jul-2013 14:11		
DLISBACKUP	MSS_LDEO_HRLA_LDL_014PUP	FN:20	PRODUCER	08-Jul-2013 14:11		

Company: Lamont Doherty Earth Observatory

Well: Expedition 341, Site U1418F

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_012PUP	FN:15	PRODUCER	08-Jul-2013 13:28	4348.9 M	3593.6 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_015PUP	FN:21	PRODUCER	08-Jul-2013 14:15	669.8 M	-115.7 M
DLISBACKUP	MSS_LDEO_HRLA_LDL_015PUP	FN:22	PRODUCER	08-Jul-2013 14:15	669.8 M	-115.7 M

OP System Version: 19C0-187

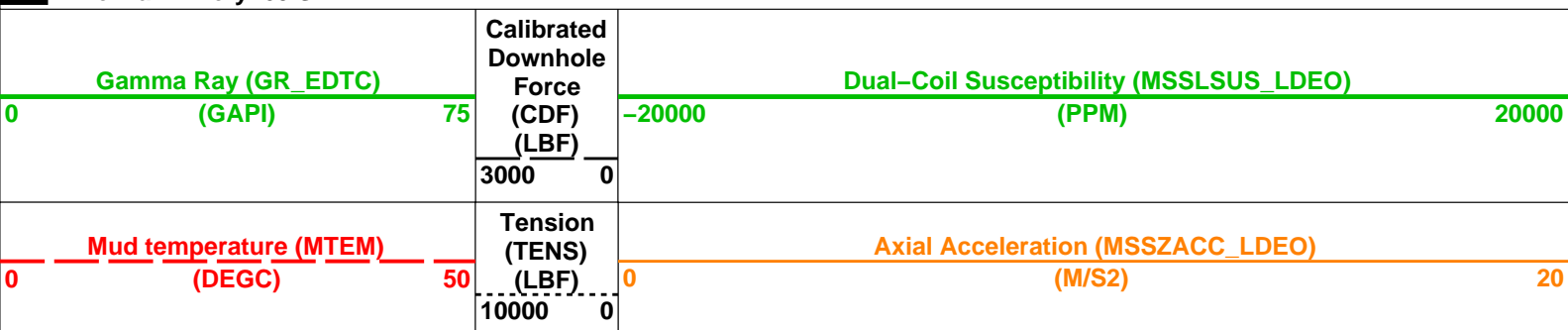
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HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
GCSE	BS	BS	669.8 14:15:14

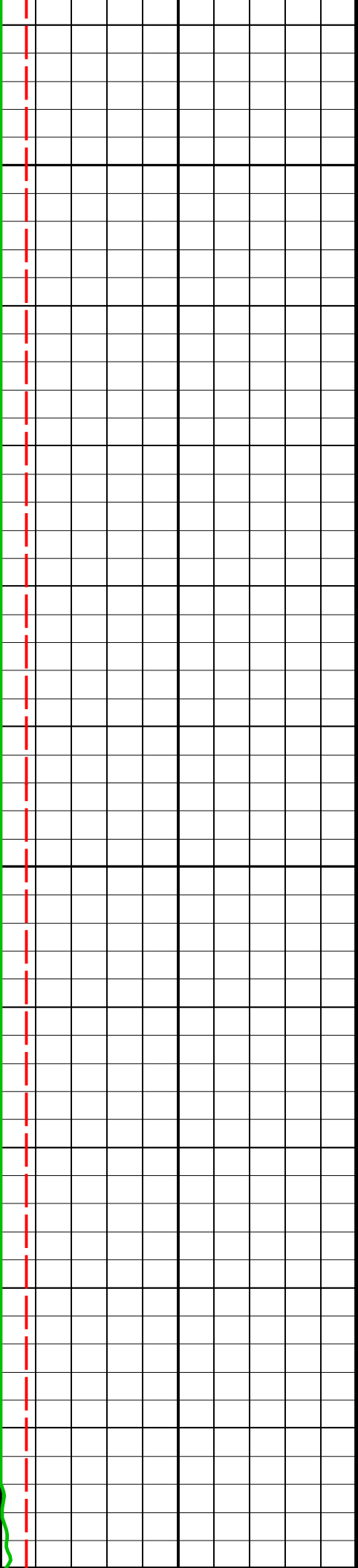
PIP SUMMARY

Time Mark Every 60 S



Downlog

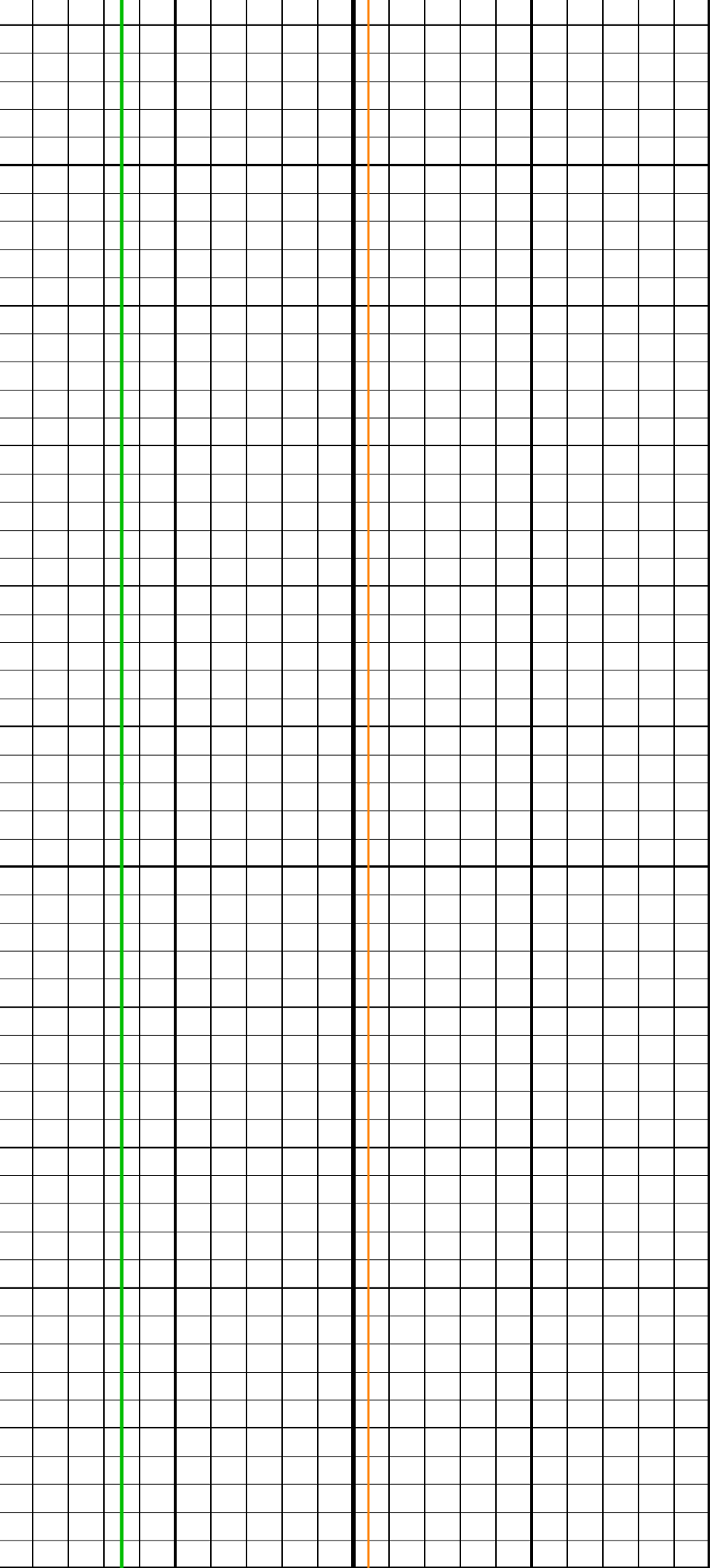
Sea Floor Depth Reference

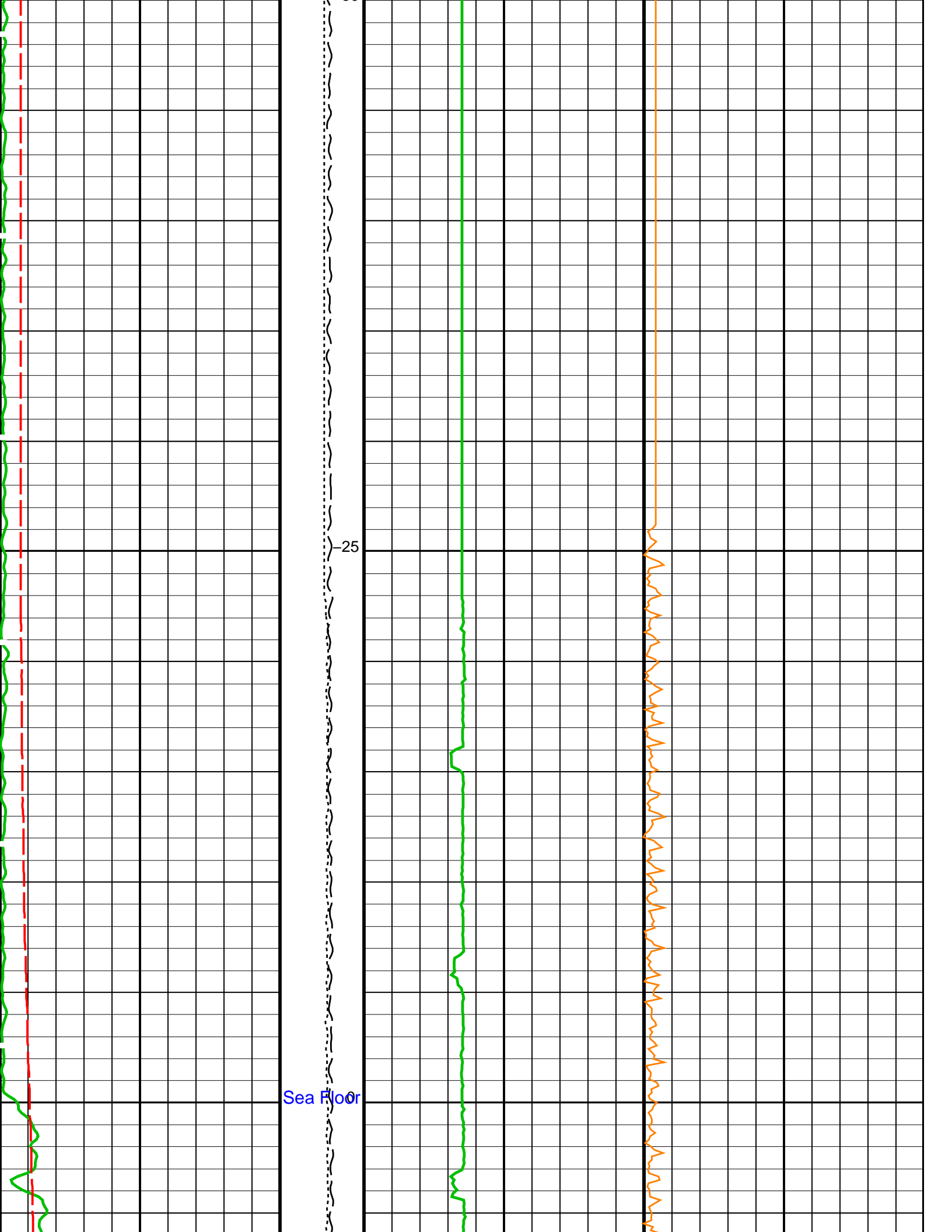


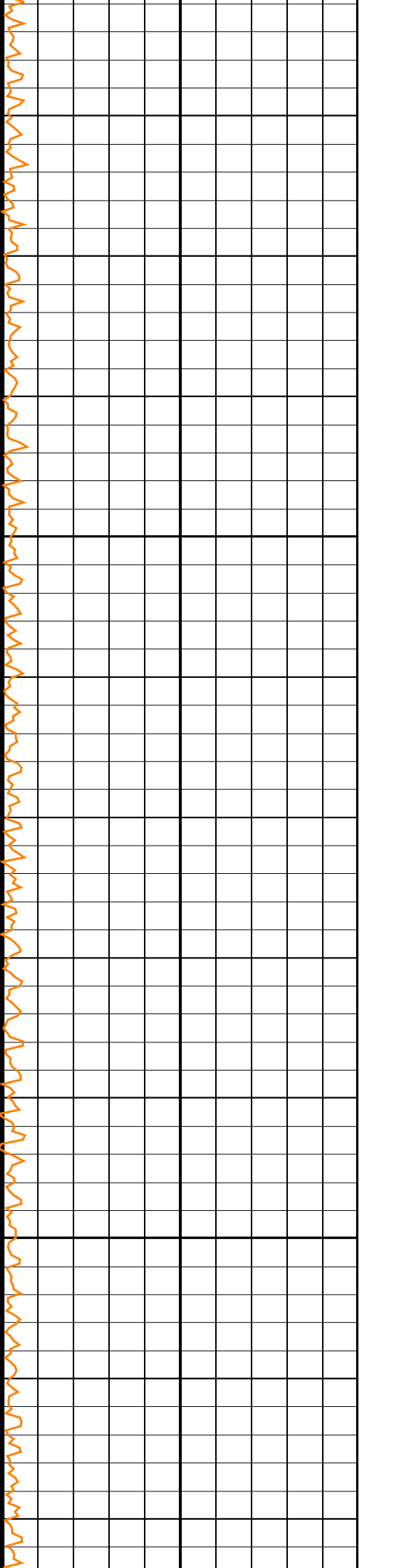
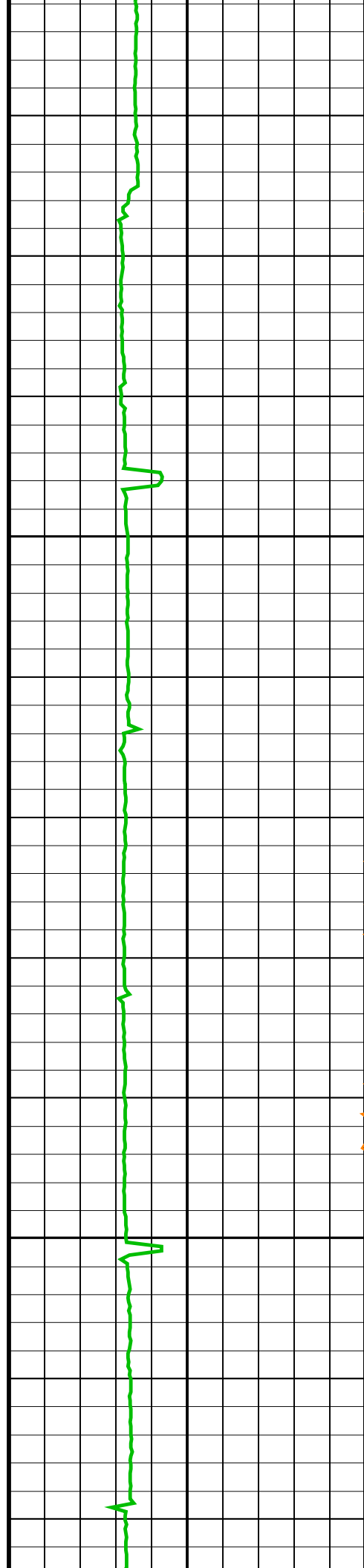
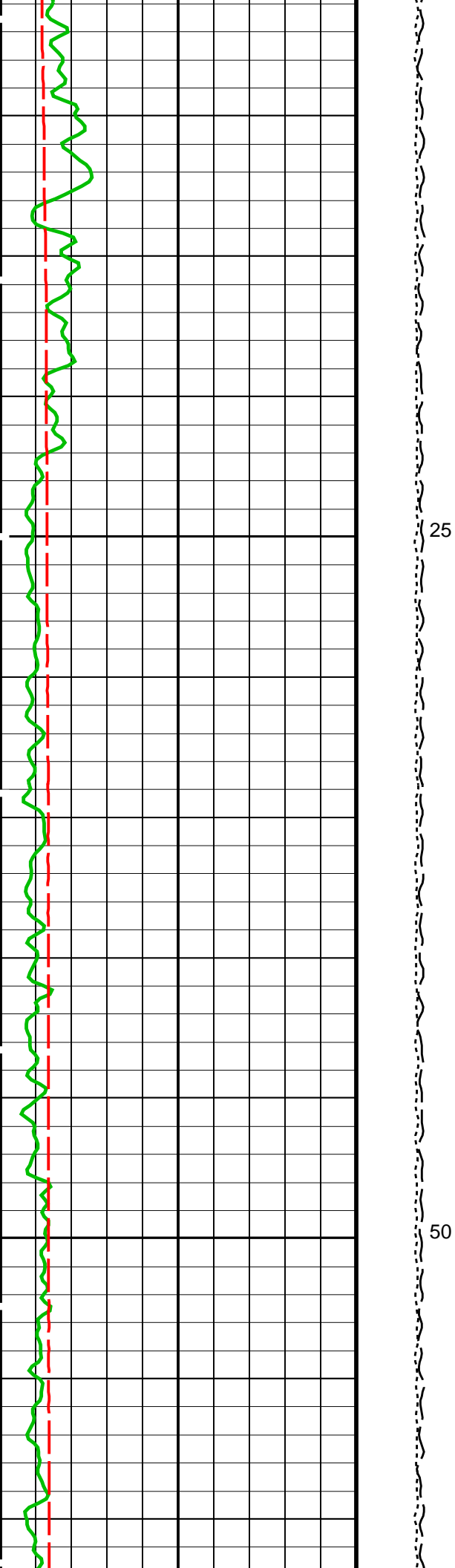
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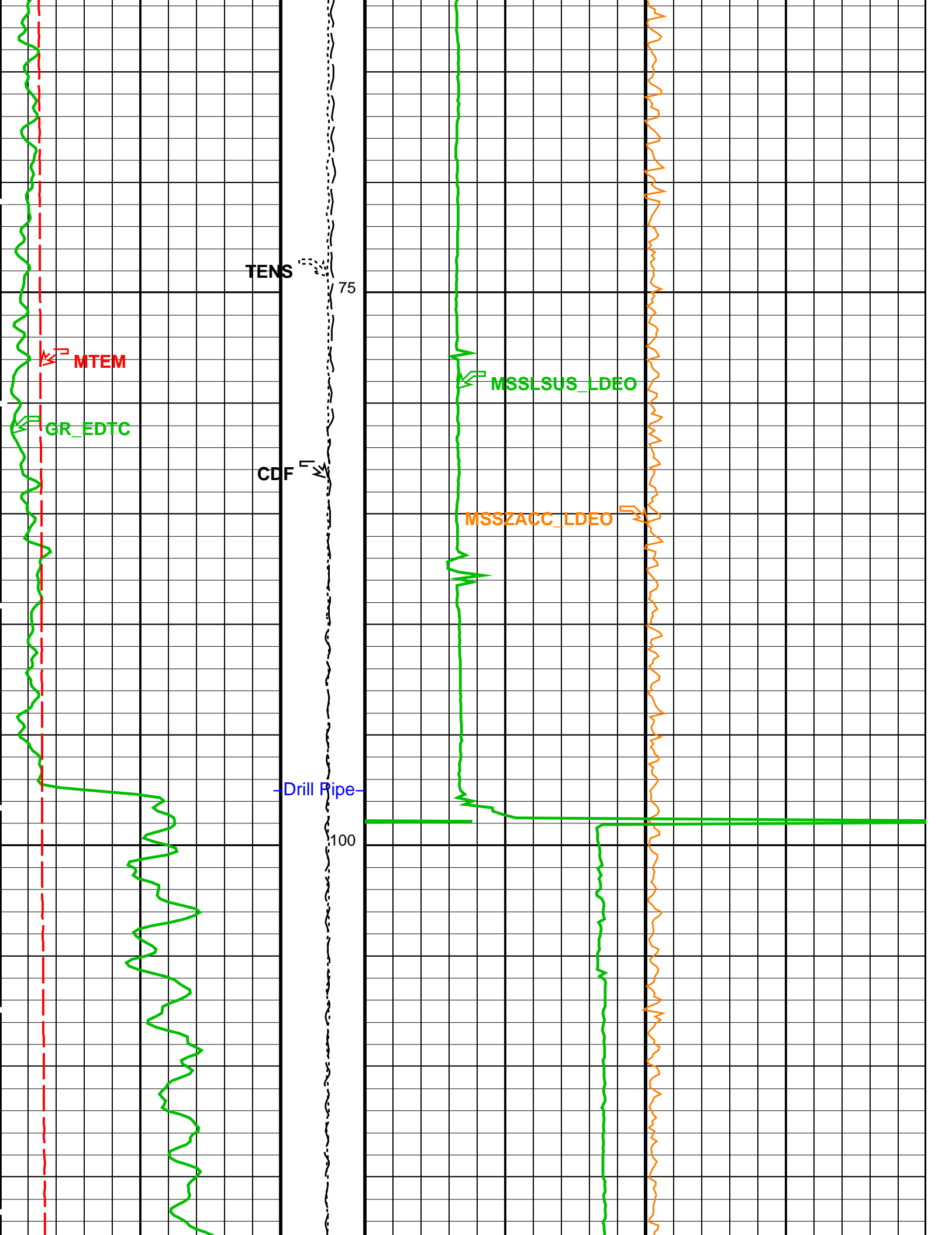
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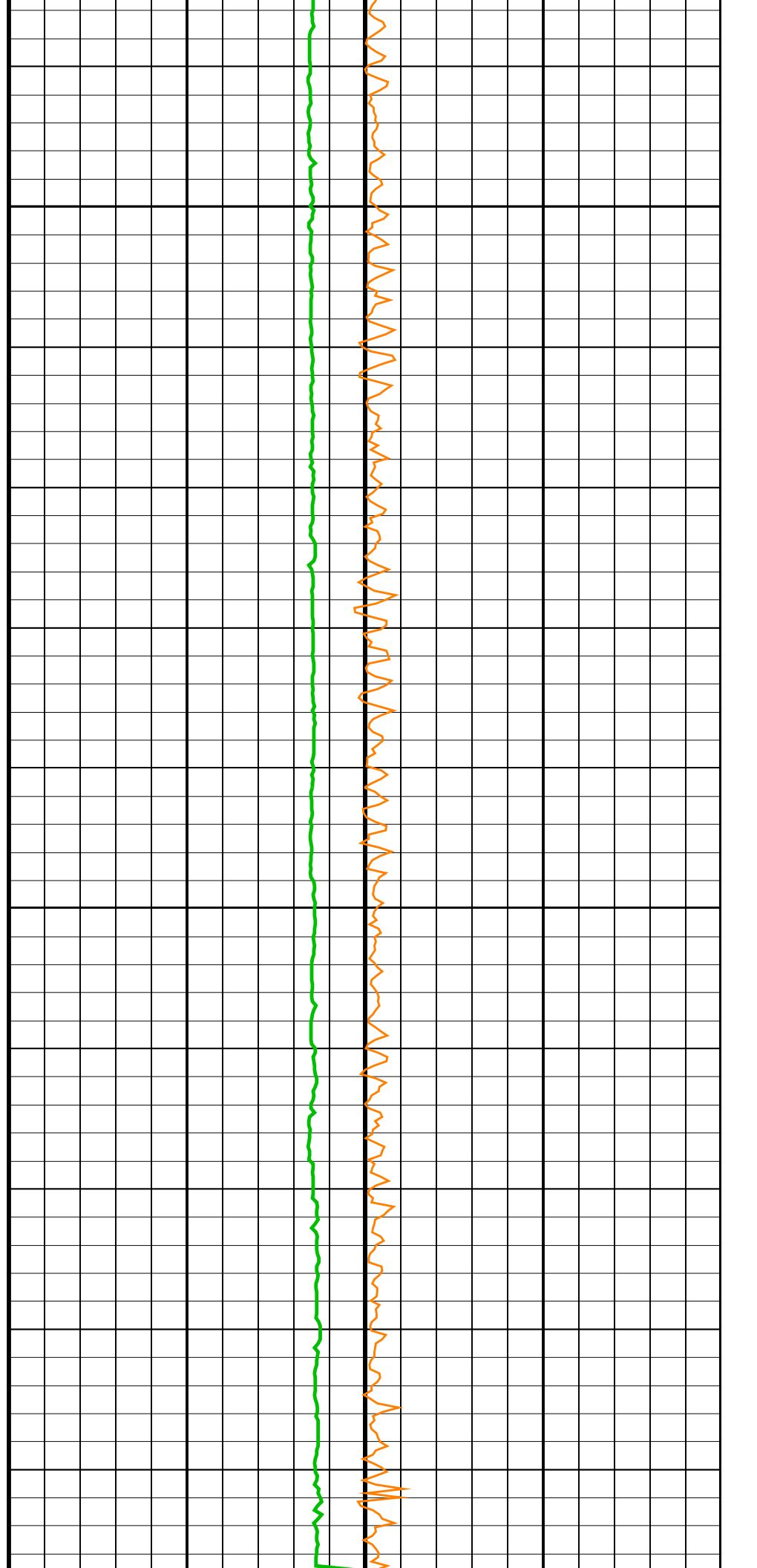
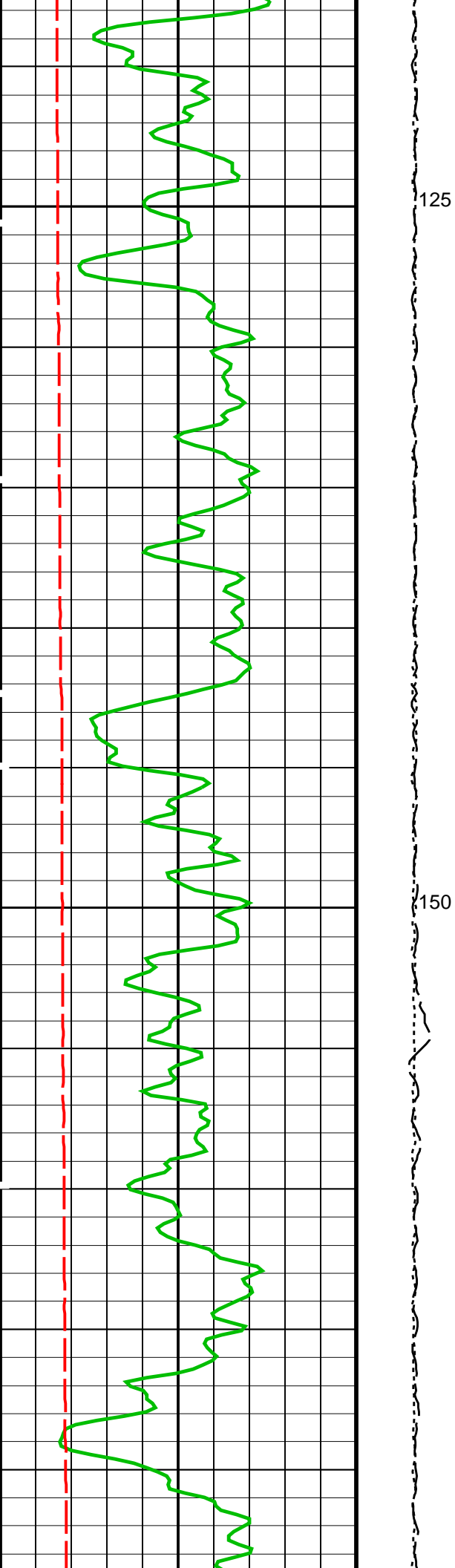
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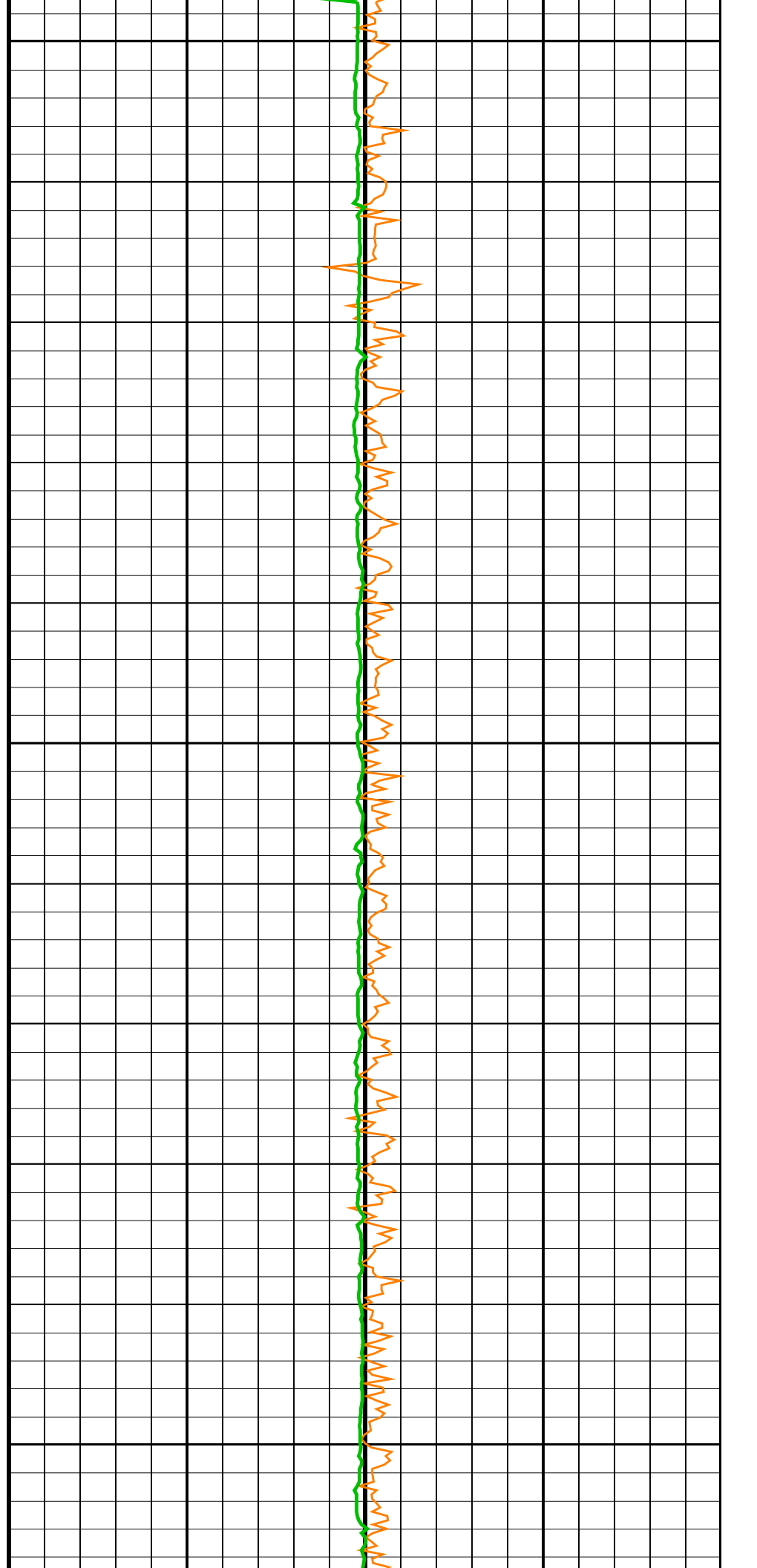
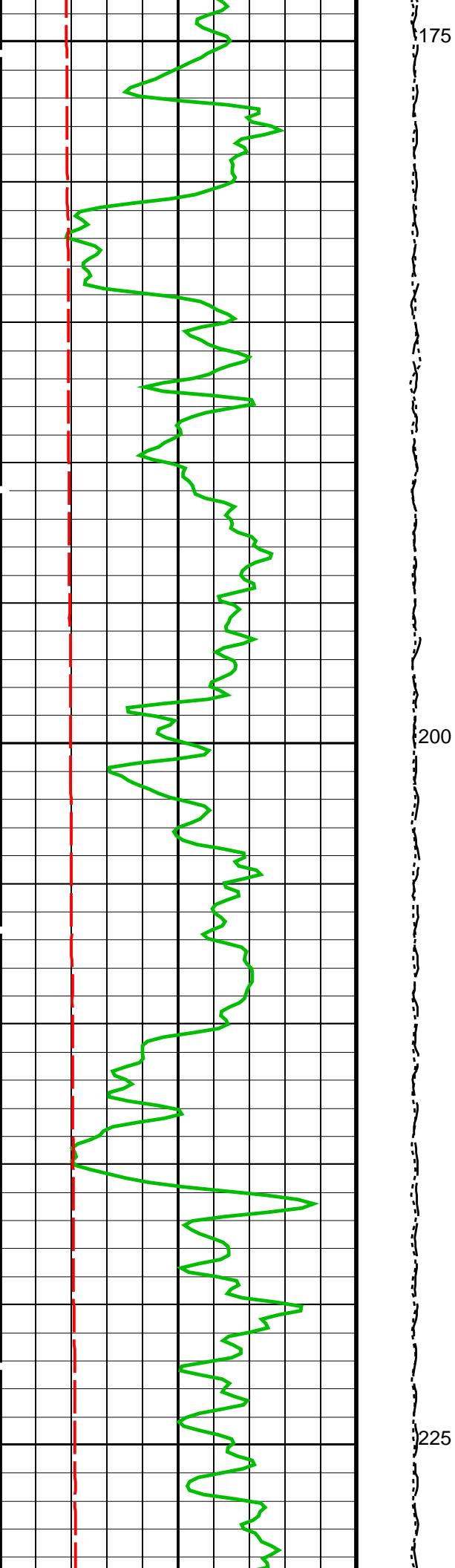


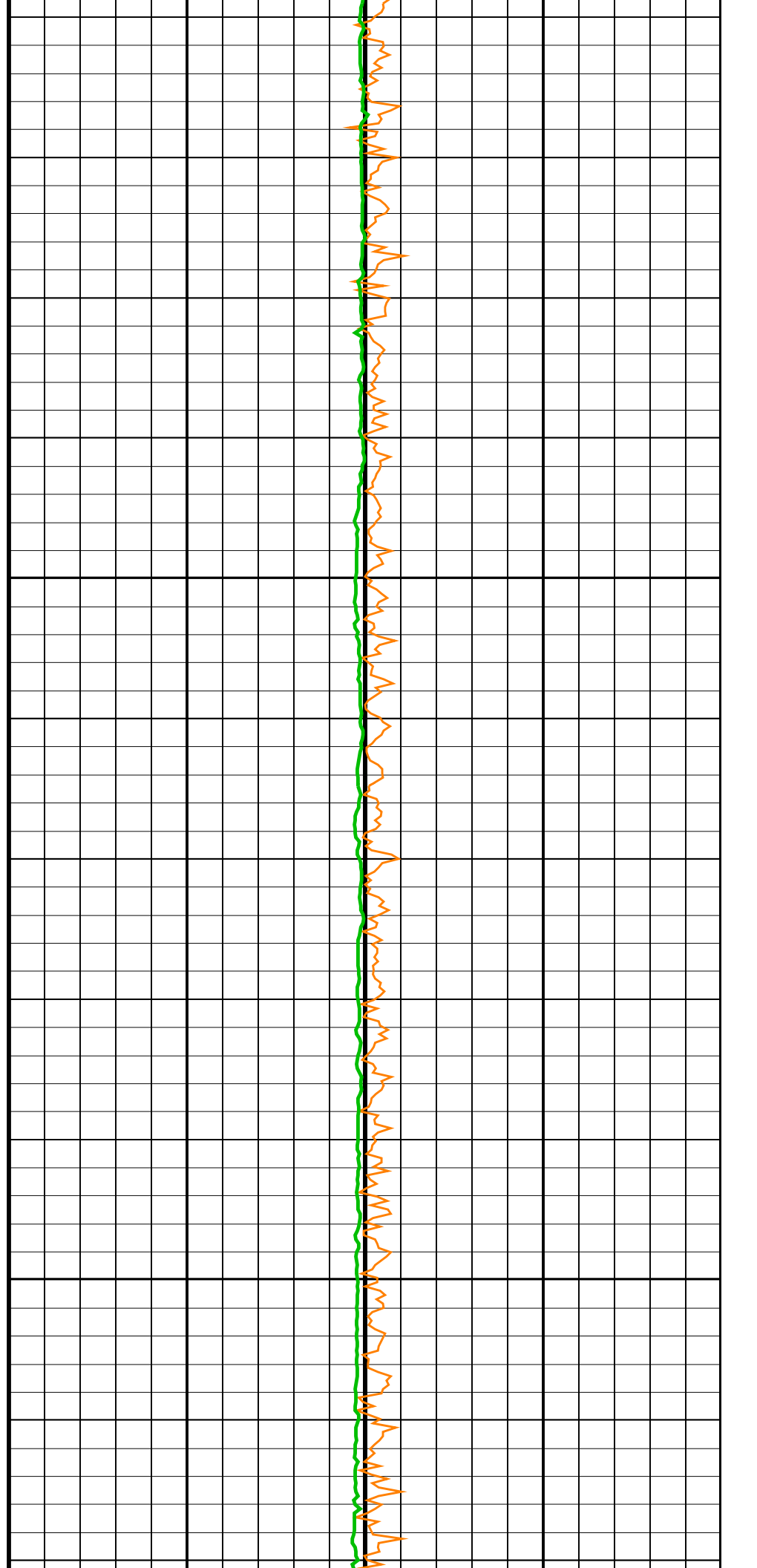
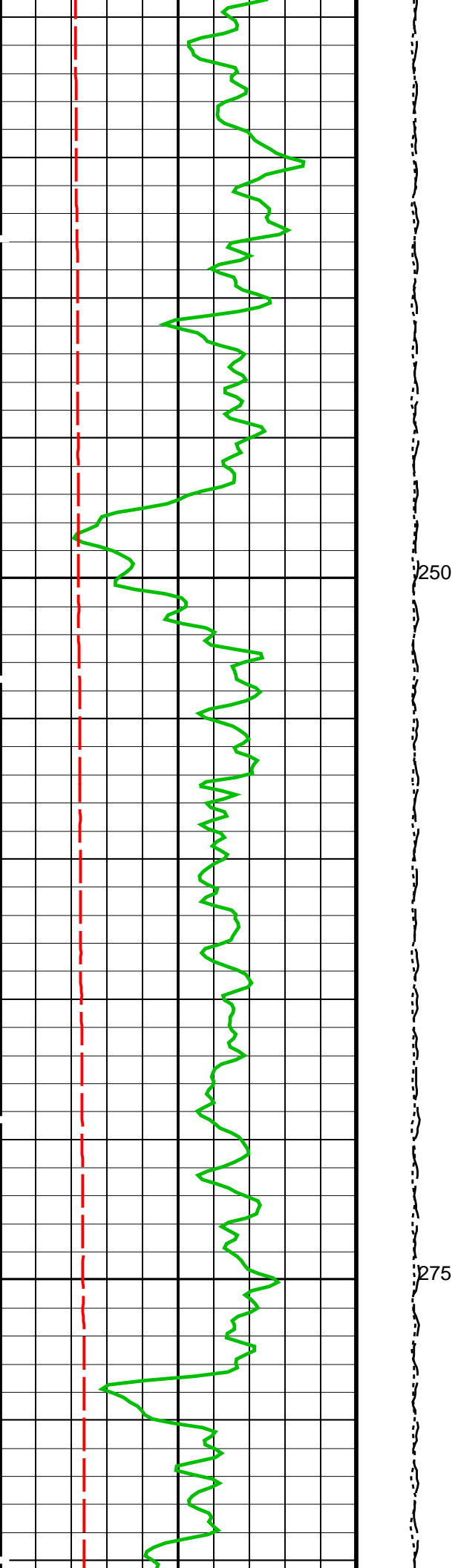


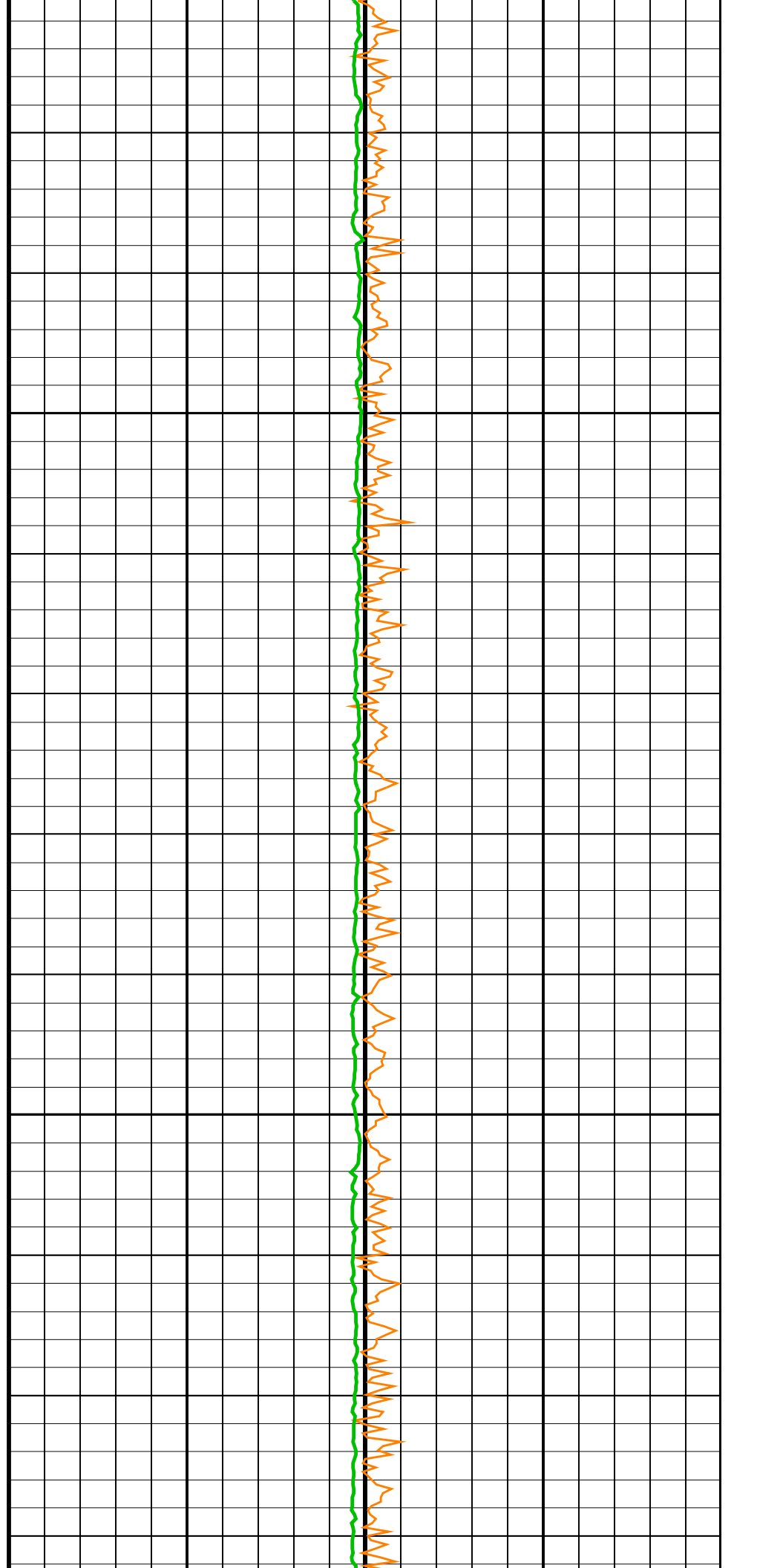
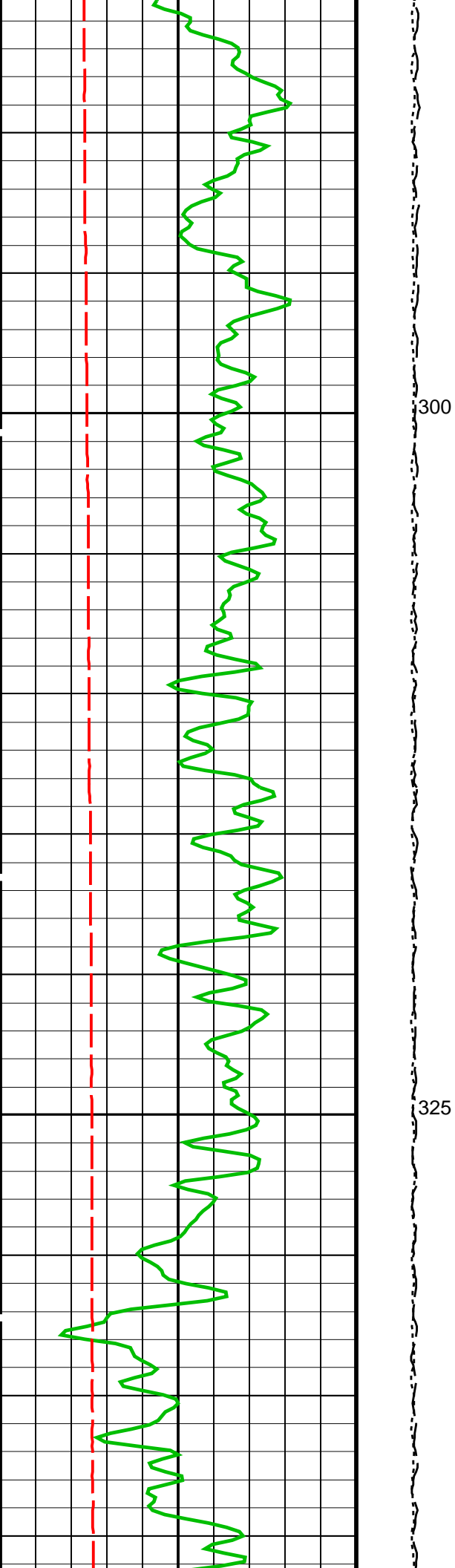


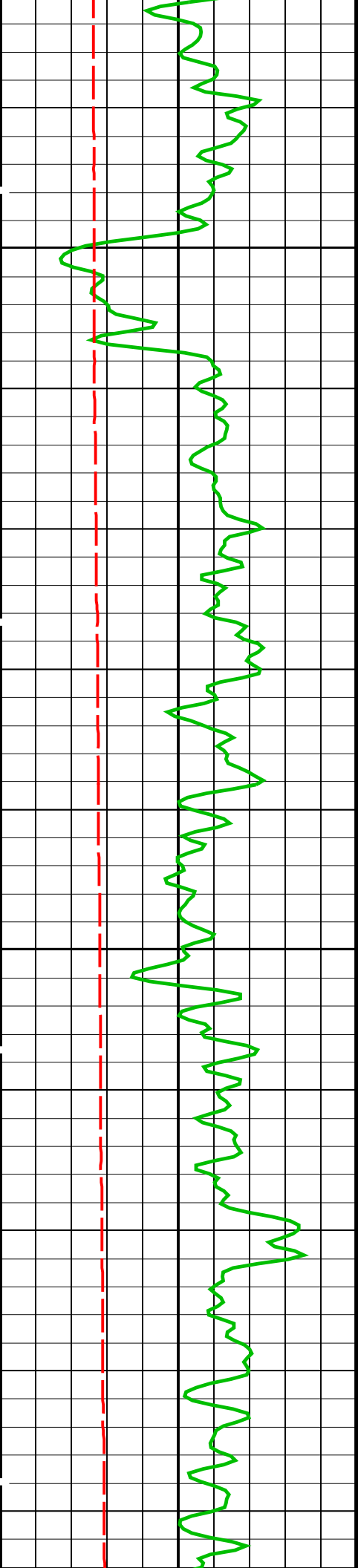






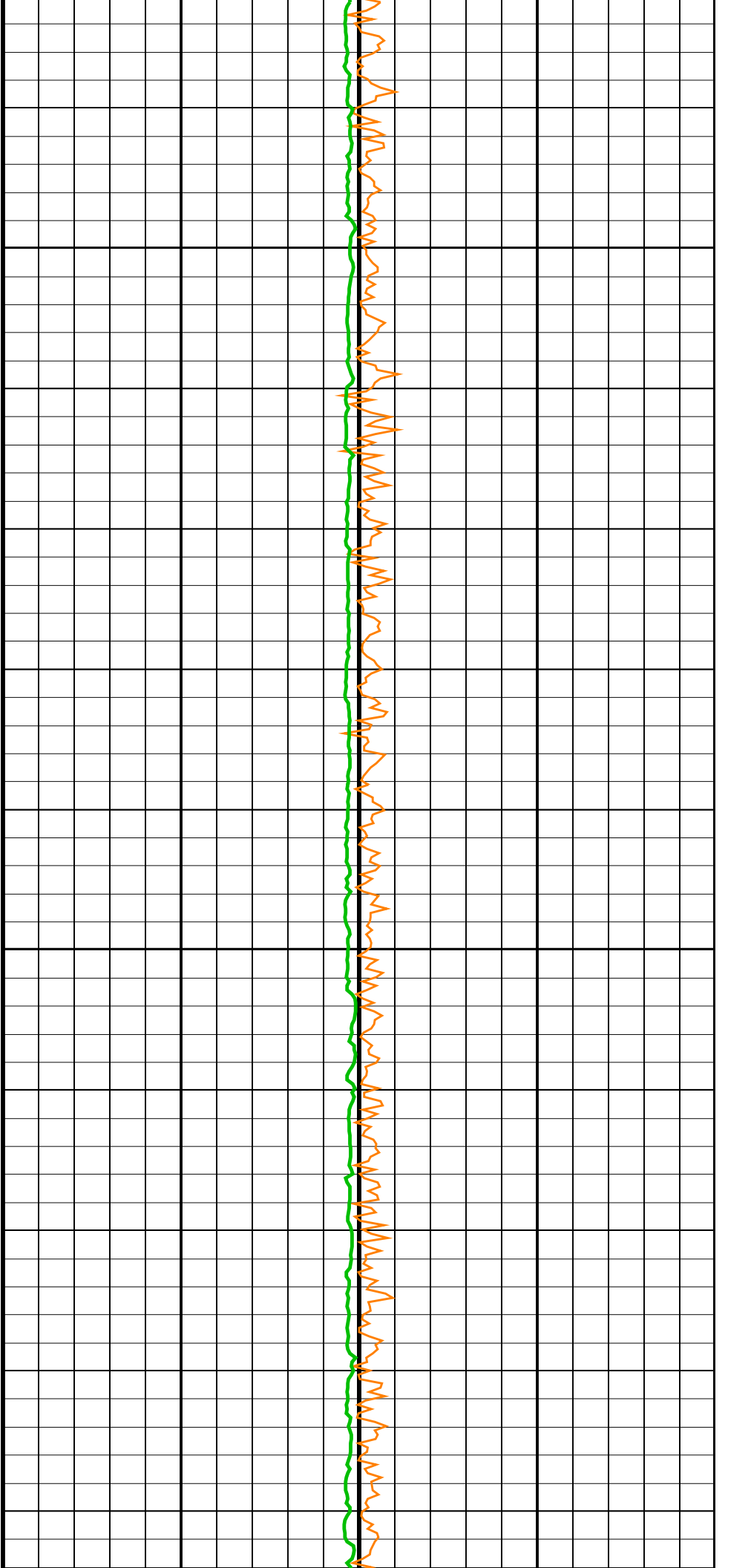


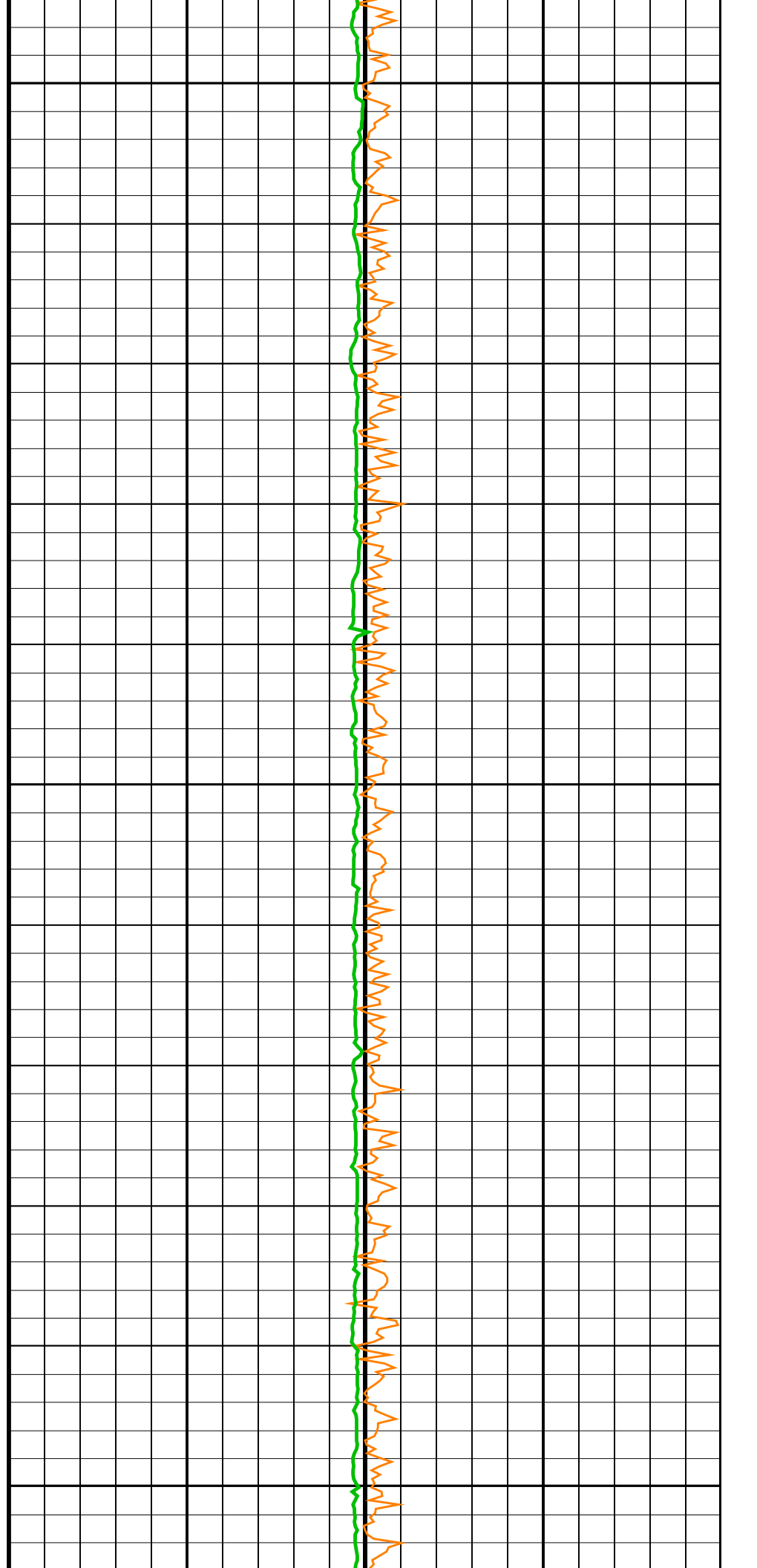
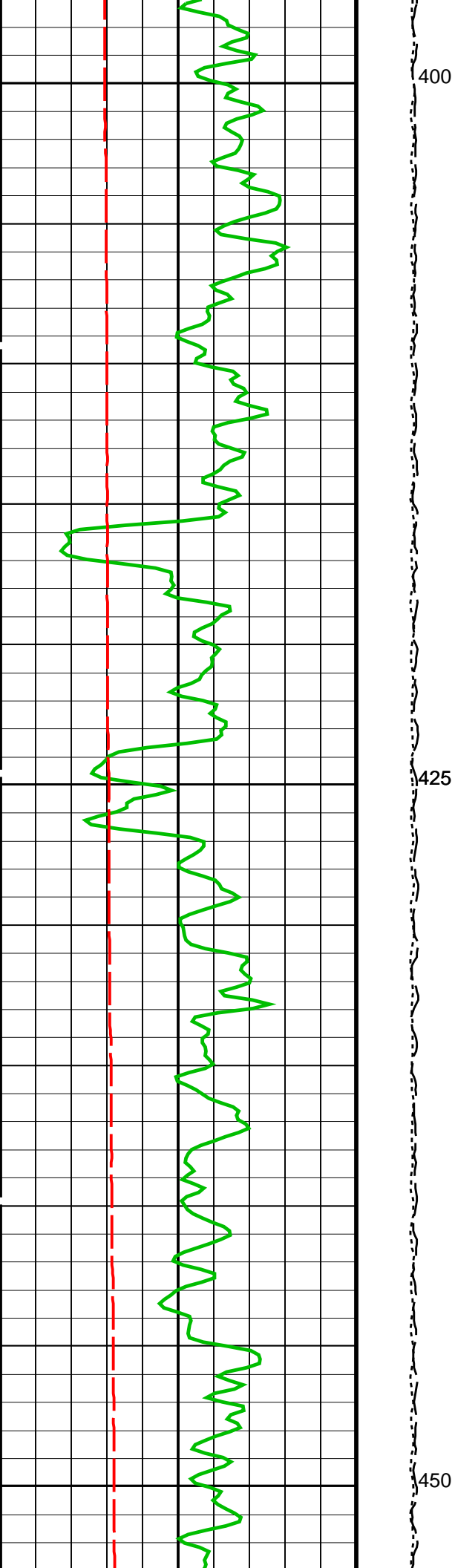


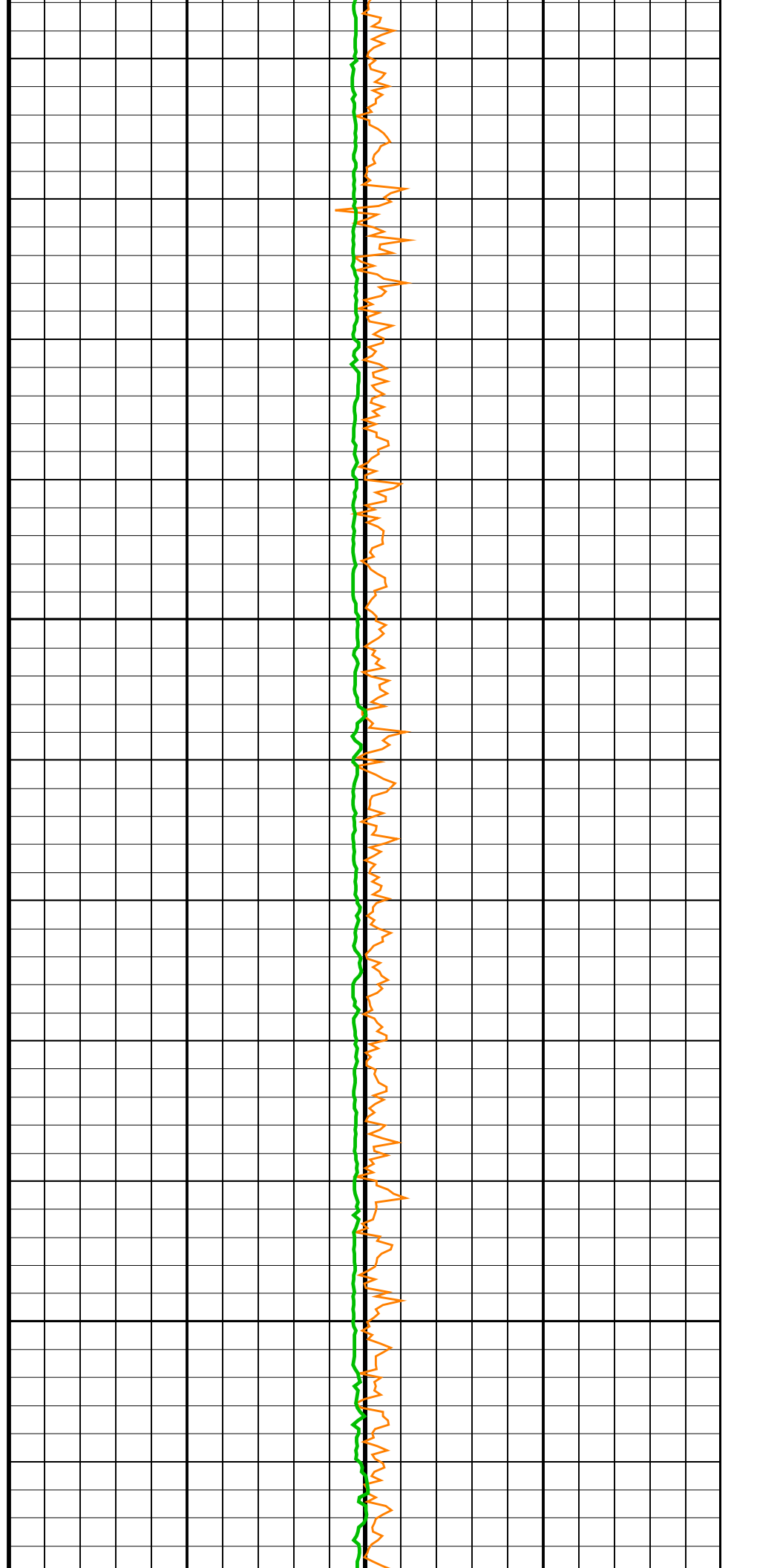
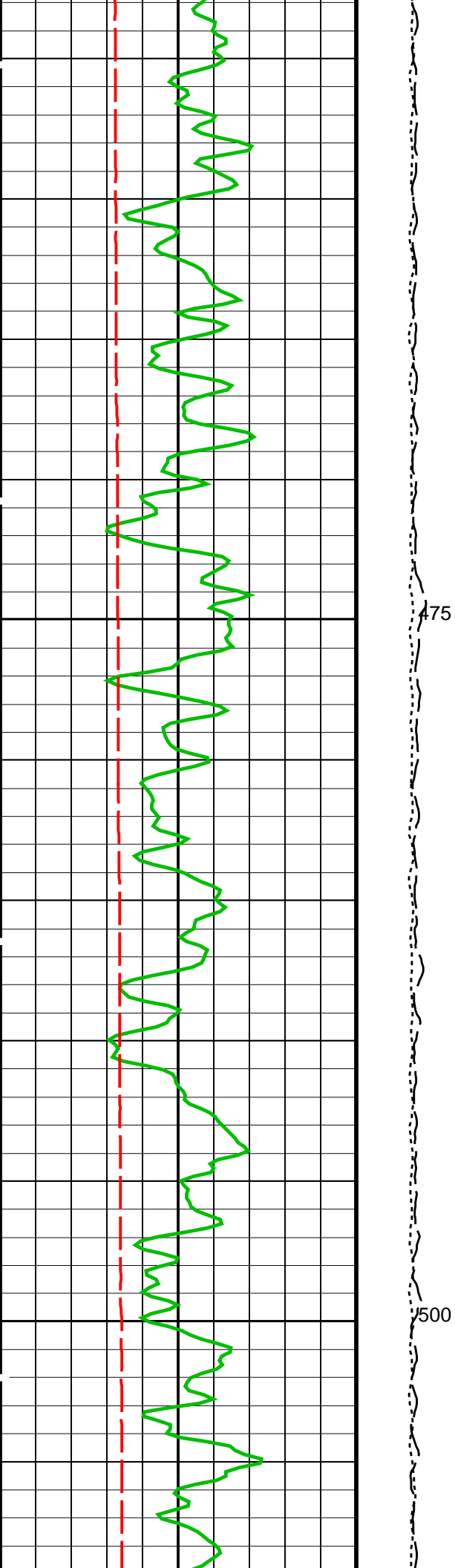


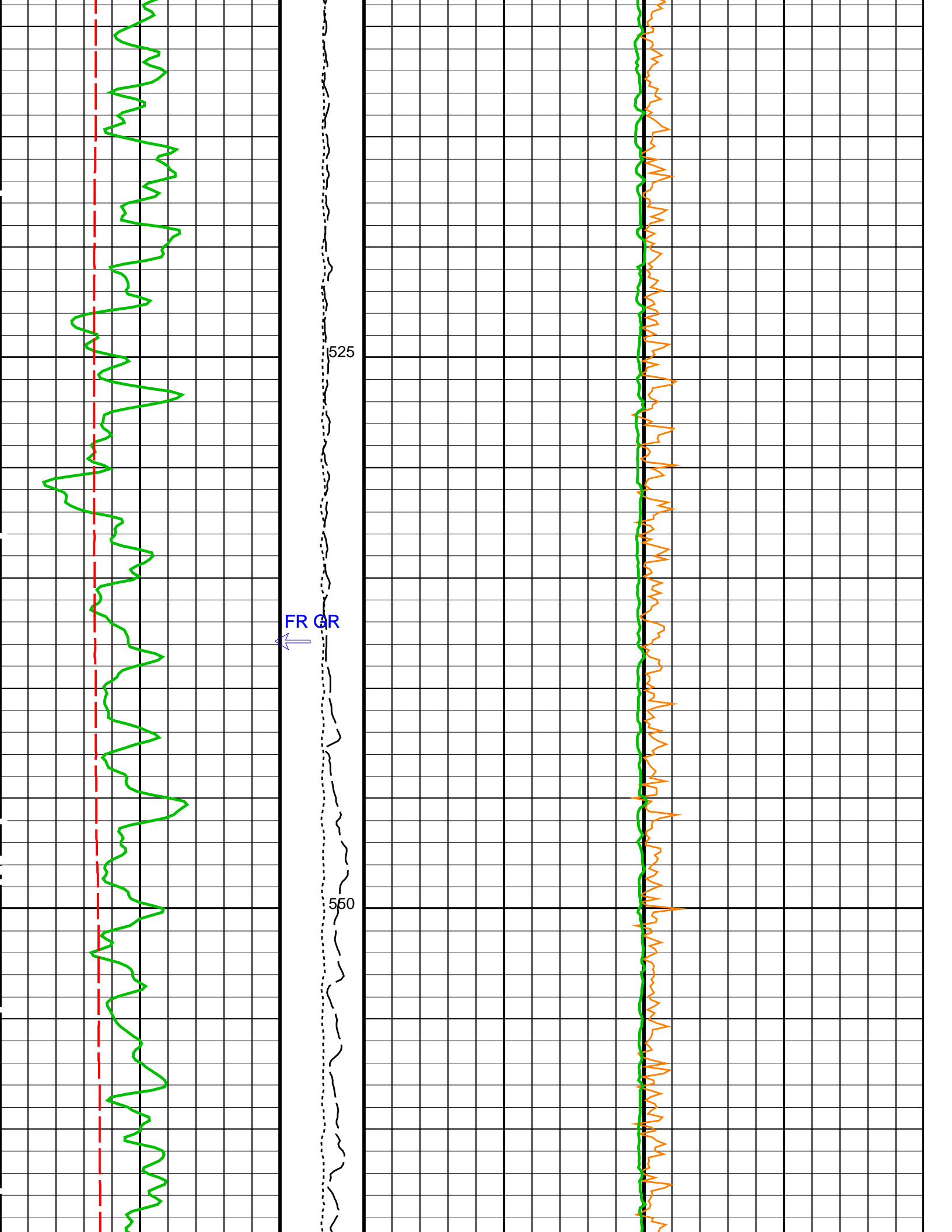
350

375





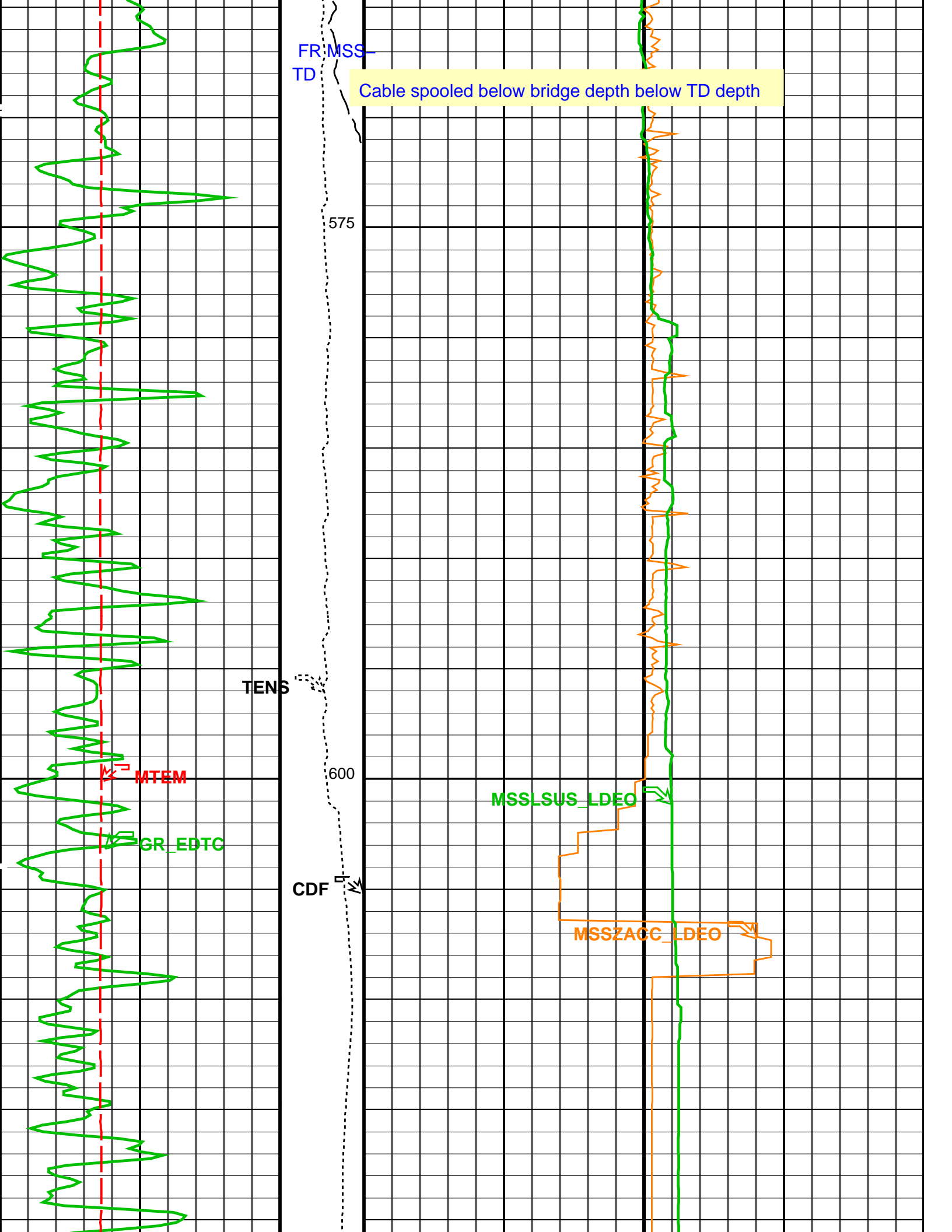


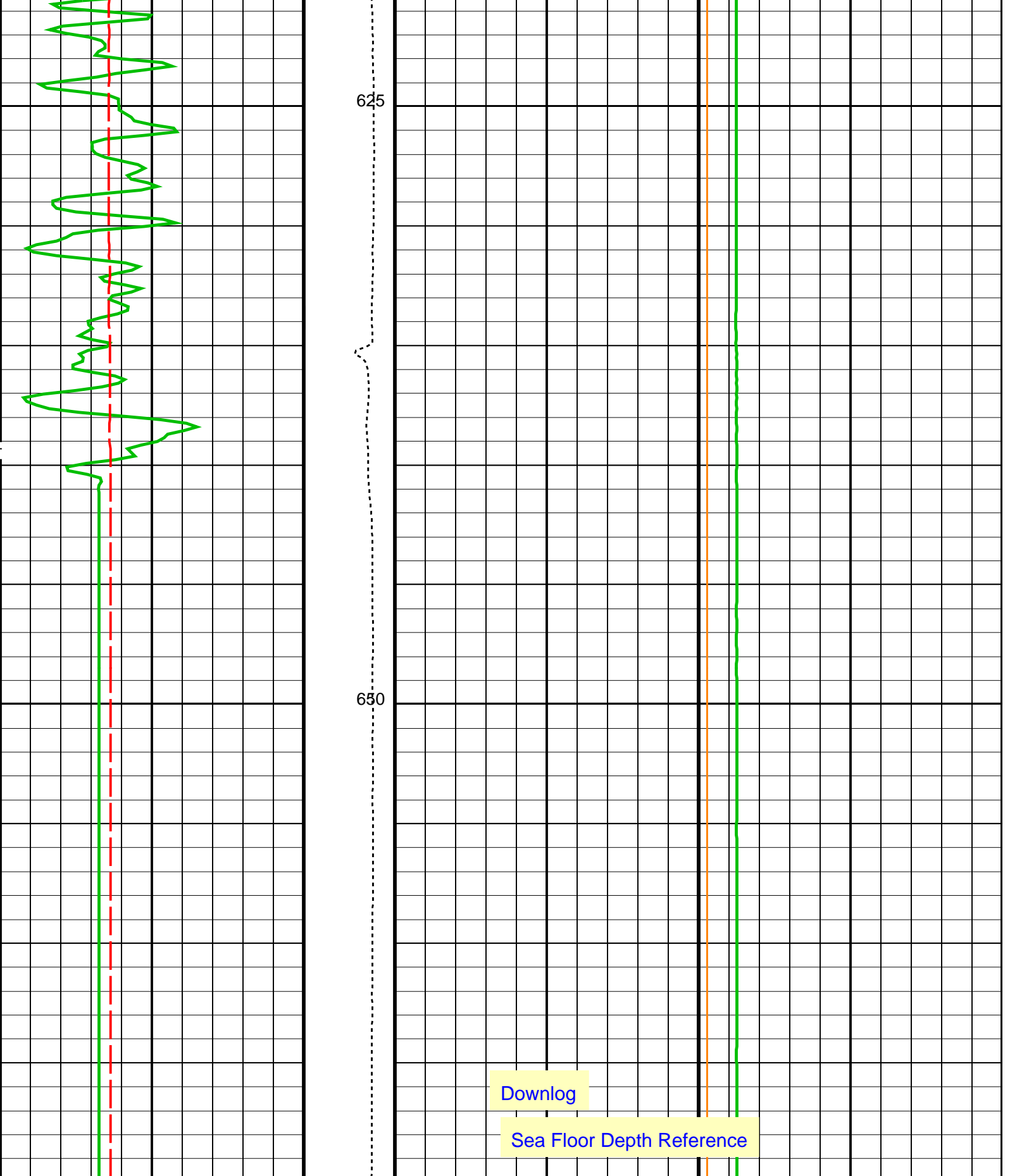


525

FR GR

560





Mud temperature (MTEM)
(DEGC) 0 50

Tension (TENS)
(LBF) 10000 0

Axial Acceleration (MSSZACC_LDEO)
(M/S2) 0 20

Gamma Ray (GR_EDTC)
(GAPI) 0 75

Calibrated Downhole Force (CDF)

Dual-Coil Susceptibility (MSSL SUS_LDEO)
(PPM) -20000 20000

Downlog

Sea Floor Depth Reference

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array - B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	14.1096	DEGC
FREQ0	HRLT Frequency Index for Mode 0	32	
FREQ1	HRLT Frequency Index for Mode 1	128	
FREQ2	HRLT Frequency Index for Mode 2	104	
FREQ3	HRLT Frequency Index for Mode 3	86	
FREQ4	HRLT Frequency Index for Mode 4	56	
FREQ5	HRLT Frequency Index for Mode 5	44	
FREQ6	HRLT Frequency Index for Mode 6	116	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	Barite Mud Switch	NOBARITE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
LOOPCOEF_S	HRLT Loop Coefficient for Shallow Modes	LOW	
LOOPMOD0	HRLT Mode 0 Loop Mode	OFF	
LOOPMOD1	HRLT Mode 1 Loop Mode	OFF	
LOOPMOD2	HRLT Mode 2 Loop Mode	OFF	
LOOPMOD3	HRLT Mode 3 Loop Mode	OFF	
LOOPMOD4	HRLT Mode 4 Loop Mode	OFF	
LOOPMOD5	HRLT Mode 5 Loop Mode	OFF	
LOOPMOD6	HRLT Mode 6 Loop Mode	OFF	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROGINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMSO	Mechanical Standoff Fin Size	0	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSPO	Sonde Position	Centered	
SHT	Surface Hole Temperature	9	DEGC
HLDS: Hostile Litho-Density Sonde			
CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
MDEN	Matrix Density	2.71	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000	
PSDS	HLDS SS Pulse Shape Compensation DAC	30000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
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	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
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	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HARK	HNGS Borehole Potassium Running Average	-0.00218346	

HADR	HNGS Borehole 1 Calcium Running Average	-0.00210340	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
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	
SHT	Surface Hole Temperature	9	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.00893	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.00784	
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	21	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
ISSBAR_EDTC	Nuclear Mud Type	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	NATU	
MWCO	Mud Weight Correction Option	YES	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	9	DEGC
SOCN	Standoff Distance	0	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	-3678.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSDAP	Use alternate depth channel for playback	NO	
PP	Playback Processing	OFF	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	4627	M
TDD	Total Depth - Driller	4627.00	M
TDL	Total Depth - Logger	4627.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 08-Jul-2013 14:15

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_012PUP	FN:15	PRODUCER	08-Jul-2013 13:28	4348.9 M	3593.6 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_015PUP	FN:21	PRODUCER	08-Jul-2013 14:15		
DLISBACKUP	MSS_LDEO_HRLA_LDL_015PUP	FN:22	PRODUCER	08-Jul-2013 14:15		

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01

Before: 8-Jul-2013 3:24 After: 8-Jul-2013 14:58

HRLT M0-M1 Voltage Plus – 0	0	N/A	-319.7	-319.7	0.01654	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-337.4	-338.3	-0.9566	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-336.9	-338.0	-1.151	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-340.2	-340.8	-0.6088	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-327.5	-327.6	-0.1125	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-323.2	-323.5	-0.2591	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	328.0	329.2	1.206	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: 8-Jul-2013 3:24 After: 8-Jul-2013 14:58

HRLT M1-M2 Voltage Plus – 0	0	N/A	1758	1758	-0.5419	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1859	1864	4.709	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1850	1856	5.838	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1866	1868	2.519	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1795	1795	0.07727	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1773	1773	0.6046	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1816	-1823	-6.609	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: 8-Jul-2013 3:24 After: 8-Jul-2013 14:58

HRLT M2-M3 Voltage Plus – 0	0	N/A	1744	1743	-0.3988	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1857	1861	4.660	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1848	1854	5.688	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1868	1871	2.934	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1791	1791	0.1779	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1769	1770	1.340	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1802	-1809	-6.474	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: 8-Jul-2013 3:24 After: 8-Jul-2013 14:58

HRLT A3-A4 Voltage Plus – 0	0	N/A	68570	68570	2.508	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	72800	73000	202.1	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	72770	73020	247.3	2100	UV
HRLT A3-A4 Voltage Plus – 3	0	N/A	73830	73940	112.3	2100	UV
HRLT A3-A4 Voltage Plus – 4	0	N/A	70730	70750	21.38	2100	UV
HRLT A3-A4 Voltage Plus – 5	0	N/A	69890	69950	52.42	2100	UV
HRLT A3-A4 Voltage Plus – 6	0	N/A	-69660	-69930	-269.6	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: 8-Jul-2013 3:24 After: 8-Jul-2013 14:58

HRLT A4-A5 Voltage Plus – 0	0	N/A	68850	68850	4.391	2100	UV
HRLT A4-A5 Voltage Plus – 1	0	N/A	73190	73390	196.6	2100	UV
HRLT A4-A5 Voltage Plus – 2	0	N/A	73140	73390	246.5	2100	UV
HRLT A4-A5 Voltage Plus – 3	0	N/A	74170	74290	117.7	2100	UV
HRLT A4-A5 Voltage Plus – 4	0	N/A	71040	71050	15.38	2100	UV
HRLT A4-A5 Voltage Plus – 5	0	N/A	70170	70220	47.25	2100	UV
HRLT A4-A5 Voltage Plus – 6	0	N/A	-70050	-70300	-250.5	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: 8-Jul-2013 3:24 After: 8-Jul-2013 14:58

HRLT A5-A6 Voltage Plus – 0	0	N/A	68740	68750	6.898	2100	UV
HRLT A5-A6 Voltage Plus – 1	0	N/A	72920	73110	192.0	2100	UV
HRLT A5-A6 Voltage Plus – 2	0	N/A	72890	73140	246.5	2100	UV
HRLT A5-A6 Voltage Plus – 3	0	N/A	73950	74080	130.5	2100	UV
HRLT A5-A6 Voltage Plus – 4	0	N/A	70900	70930	24.06	2100	UV
HRLT A5-A6 Voltage Plus – 5	0	N/A	70050	70100	56.31	2100	UV
HRLT A5-A6 Voltage Plus – 6	0	N/A	-69760	-70020	-260.0	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: 8-Jul-2013 3:24 After: 8-Jul-2013 14:58

HRLT Torpedo-M0 Voltage – 0	0	N/A	-68450	-68430	21.57	2100	UV
HRLT Torpedo-M0 Voltage – 1	0	N/A	-73280	-73440	-165.2	2100	UV
HRLT Torpedo-M0 Voltage – 2	0	N/A	-73220	-73440	-220.5	2100	UV
HRLT Torpedo-M0 Voltage – 3	0	N/A	-74280	-74370	-96.92	2100	UV
HRLT Torpedo-M0 Voltage – 4	0	N/A	-71130	-71120	6.383	2100	UV
HRLT Torpedo-M0 Voltage – 5	0	N/A	70000	70000	0	2100	UV

HRLT Torpedo-M0 Voltage - 5	0	N/A	-70240	-70270	-30.29	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	70060	70300	247.4	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: 8-Jul-2013 3:24 After: 8-Jul-2013 14:58

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68410	-68420	-4.789	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-73230	-73430	-204.3	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-73170	-73420	-253.4	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-74240	-74350	-118.6	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-71100	-71120	-22.34	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-70210	-70270	-52.55	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	70010	70260	256.4	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: 8-Jul-2013 3:24 After: 8-Jul-2013 14:58

HRLT Source Current Plus - 0	0	N/A	285.3	285.3	0.002655	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: 8-Jul-2013 3:24 After: 8-Jul-2013 14:58

HRLT Vertical Voltage PI - 0	0	N/A	-322.3	-322.1	0.2796	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-332.7	-333.4	-0.7059	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-331.1	-332.0	-0.8658	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-332.2	-332.5	-0.2955	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-316.8	-316.6	0.1891	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-327.7	-327.7	-0.02109	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	336.7	337.7	1.002	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: 23-May-2013 18:26 Before: 5-Jun-2013 5:19 After: 8-Jul-2013 15:10

SS Cs Resolution Bkg	9.000	7.935	8.049	7.961	-0.08869	1.800	%
LS Cs Resolution Bkg	9.000	8.162	8.063	8.048	-0.01412	1.800	%
LSW1 Background	100.0	71.72	70.78	71.09	0.3166	0.03000	CPS
LSW2 Background	100.0	65.95	64.89	64.69	-0.1998	0.03000	CPS
LSW3 Background	200.0	146.1	143.2	142.5	-0.6803	0.03000	CPS
LSW4 Background	250.0	176.3	175.6	174.8	-0.7964	0.03000	CPS
LSW5 Background	600.0	404.2	405.6	402.8	-2.782	0.03000	CPS
SSW1 Background	100.0	80.22	79.61	79.51	-0.1018	0.03000	CPS
SSW2 Background	200.0	141.1	142.8	142.3	-0.4696	0.03000	CPS
SSW3 Background	500.0	380.9	379.7	382.9	3.191	0.03000	CPS
SSW4 Background	270.0	201.0	199.2	197.4	-1.822	0.03000	CPS
SSW5 Background	200.0	143.8	144.9	142.7	-2.160	0.03000	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement

Master: 23-May-2013 19:07

LSW1 Aluminum	600.0	513.7	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	737.9	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	887.0	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	448.1	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	411.4	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2391	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6513	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9048	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	442.2	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement

Master: 23-May-2013 18:57

LSW1 Iron	400.0	354.2	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	602.9	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	794.0	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	408.1	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	376.8	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1748	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5423	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8249	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3342	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	391.9	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration

Before: 5-Jun-2013 5:19

HLDS Caliper Small Ring	12.00	N/A	16.02	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	19.90	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 22–May–2013 20:18 Before: 5–Jun–2013 5:31 After: 8–Jul–2013 15:10

Na 511 Peak Loc	40.00	39.77	39.78	39.56	-0.2224	1.000	
Na 511 Peak Res	15.50	15.23	15.40	14.97	-0.4249	2.000	%
High Voltage	1150	1161	1143	1152	8.722	N/A	V
Na 1785 Peak Loc	142.6	143.9	143.2	141.5	-1.730	7.000	
Na 1785 Peak Res	8.500	7.558	8.088	8.247	0.1592	2.000	%
Temperature	15.50	16.49	14.24	17.54	3.303	N/A	DEGC
Na Count Rate	45.00	14.90	15.37	14.20	-1.173	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 22–May–2013 20:18 Before: 5–Jun–2013 5:31 After: 8–Jul–2013 15:10

Na 511 Peak Loc	40.00	39.67	39.68	39.63	-0.04630	1.000	
Na 511 Peak Res	15.50	15.00	15.05	14.74	-0.3100	2.000	%
High Voltage	1150	1082	1074	1085	10.86	N/A	V
Na 1785 Peak Loc	142.6	141.4	140.3	141.2	0.8607	7.000	
Na 1785 Peak Res	8.500	9.134	8.027	8.459	0.4314	2.000	%
Temperature	15.50	16.94	14.41	19.46	5.047	N/A	DEGC
Na Count Rate	45.00	14.58	15.20	14.21	-0.9928	8.000	CPS

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

Master: 22–May–2013 20:18 Before: 5–Jun–2013 5:31 After: 8–Jul–2013 15:10

Coincidence Count Rate Ratio	1.000	1.024	1.014	0.9989	-0.01462	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 22–May–2013 20:18

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	211.4	--	--	--	--	
Th Peak Res	7.000	6.972	--	--	--	--	%
Background Count Rate	142.5	18.97	--	--	--	--	CPS
Gain Ratio	1.000	1.011	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 22–May–2013 20:18

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	208.8	--	--	--	--	
Th Peak Res	7.000	6.474	--	--	--	--	%
Background Count Rate	142.5	18.20	--	--	--	--	CPS
Gain Ratio	1.000	1.001	--	--	--	--	

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 8–Jul–2013 3:23

EDTC Z–Axis Acceleration	9.810	N/A	9.800	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: Calibration out of date 5–Jun–2013 5:18

Gamma Ray (Jig – Bkg)	156.4	N/A	156.4	N/A	N/A	14.22	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	N/A	N/A	15.00	GAPI

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

Hostile Litho–Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS – D	45
Hostile Litho Density High Voltage	HLDV – D	45
Gamma Source Radioactive	GSR – Z	8113
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP – C	45
Hostile Litho Density High Voltage Housi	HEH – H	47

Litho-Density Spectroscopy Cartridge – B / Equipment Identification

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

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 GSR – U	205 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		39.77	Master		15.23	Master		1161
Before		39.78	Before		15.40	Before		1143
After		39.56	After		14.97	After		1152
	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		143.9	Master		7.558	Master		16.49
Before		143.2	Before		8.088	Before		14.24
After		141.5	After		8.247	After		17.54
	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		14.90						
Before		15.37						
After		14.20						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 22-May-2013 20:18			Before: 5-Jun-2013 5:31			After: 8-Jul-2013 15:10		

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		39.67	Master		15.00	Master		1082
Before		39.68	Before		15.05	Before		1074
After		39.63	After		14.74	After		1085
	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		141.4	Master		9.134	Master		16.94
Before		140.3	Before		8.027	Before		14.41
After		141.2	After		8.459	After		19.46

Phase	Na Count Rate CPS	Value
Master		14.58
Before		15.20
After		14.21
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	

Master: 22-May-2013 20:18 Before: 5-Jun-2013 5:31 After: 8-Jul-2013 15:10

Phase	Coincidence Count Rate Ratio	Value
Master		1.024
Before		1.014
After		0.9989
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	

Master: 22-May-2013 20:18
Before: 5-Jun-2013 5:31
After: 8-Jul-2013 15:10

Hostile Natural Gamma Ray Sonde Master Calibration								
Detector 1 Calibration								
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		211.4	Master		6.972
	38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum)			201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)			5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)	
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value			
Master		18.97	Master		1.011			
	10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)				

Master: 22-May-2013 20:18

Hostile Natural Gamma Ray Sonde Master Calibration								
Detector 2 Calibration								
Phase	Na 511 Peak Set Point	Value	Phase	Th Peak Loc	Value	Phase	Th Peak Res %	Value
Master		41.00	Master		208.8	Master		6.474
	38.00 (Minimum) 40.00 (Nominal) 43.00 (Maximum)			201.0 (Minimum) 209.6 (Nominal) 218.3 (Maximum)			5.000 (Minimum) 7.000 (Nominal) 9.000 (Maximum)	
Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value			
Master		18.20	Master		1.001			
	10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)				

Master: 22-May-2013 20:18

Enhanced DTS Cartridge / Equipment Identification			
Primary Equipment:			
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		9.800
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	

Before: 8-Jul-2013 3:23

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		6.203	Before		156.4	Before		164.0
0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)	142.2 (Minimum)	156.4 (Nominal)	170.6 (Maximum)	149.0 (Minimum)	164.0 (Nominal)	179.0 (Maximum)

Before: Calibration out of date 5-Jun-2013 5:18

Company: **Lamont Doherty Earth Observatory**

Schlumberger

Well: **Expedition 341, Site U1418F**

Field: **Southern Alaska Margin Tectonics**

Rig: **JOIDES Resolution**

Ocean: **Pacific**

Magnetic Susceptibility Sonde

Deep Reading

Gamma Ray