






[illegible]

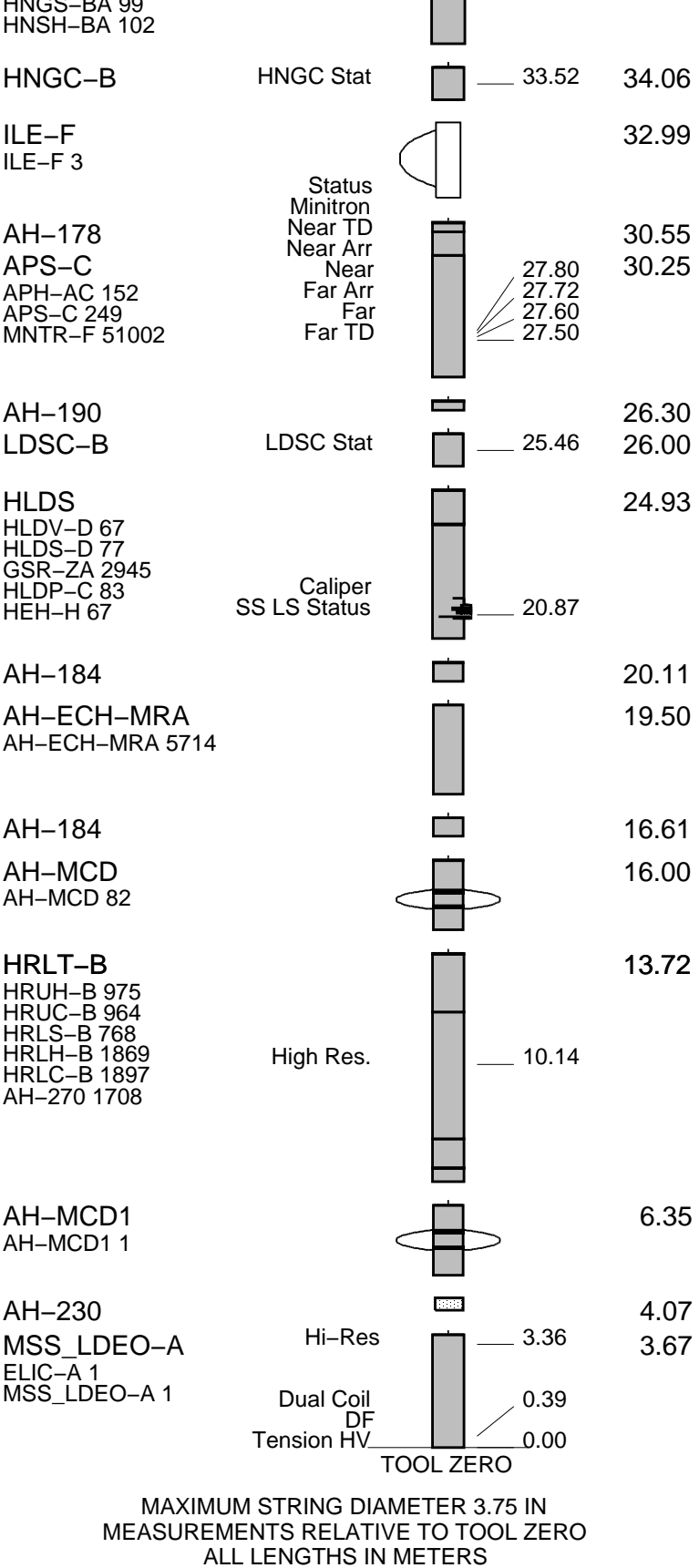
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OTHER SERVICES1 OS1: FMS/DSI/HNGS OS2: OS3: OS4: OS5:			OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:		
REMARKS: RUN NUMBER 1			REMARKS: RUN NUMBER 2		
Hole drilled with APC/XCB bottom hole assembly (BHA) at 11.4375" BS					
Caliper closed and GR spikes denoted on log by: *see remarks due to dropping down to fix cable wrap on drum.					
Drill pipe set at 2299.6 mbrf.					
Fluid type was seawater displaced in the hole prior to logging.					
Depth recorded from drill floor; logs presented as-logged without depth corrections or shifts, as per client instructions.					
All logs presented in wireline measured depth below rig floor (MDBRF).					
Caliper opened during upward passes; closed inside pipe and while logging down.					
Hole size corrections made using caliper measurements for upward passes bit size used for downlog corrections.					
AHC used from TD then switched off to facilitate pipe entry.					
Caliper closed prior to shutting off compensator and entering pipe or casing.					
Density calibration unaffected by low count rates due to weaker gamma source than expected by the software, ie. lower bounds of count rate windows.					
Downlog flipped and note the caliper closed logging down.					
<div style="text-align: center;">RUN 1</div> SERVICE ORDER #: PROGRAM VERSION: 19C0-187 FLUID LEVEL:			<div style="text-align: center;">RUN 2</div> SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT			
SFT-281 1			
SFT-178 1			
GSR-U 6098			
WITM (DTS)-A 1			
DOWNHOLE EQUIPMENT			
LEH-QT		38.79	
AH-369	CTEM 	37.19	37.91
DTC-H	TelStatus 	36.56	37.47
HNGS-BA	Upper_1 	35.86	
UNGS-BA-00	Lower_2 	35.64	36.56



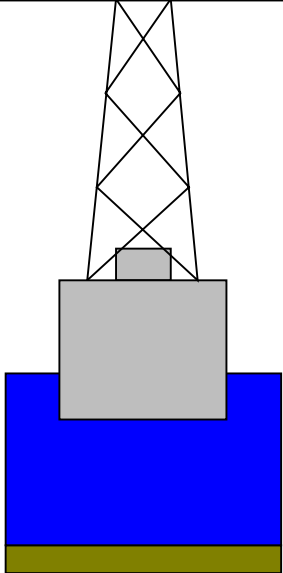
Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID	MD	MD	OD	ID

Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

0
0

11



4.1

2219.5 4.1
2299.6 9.875

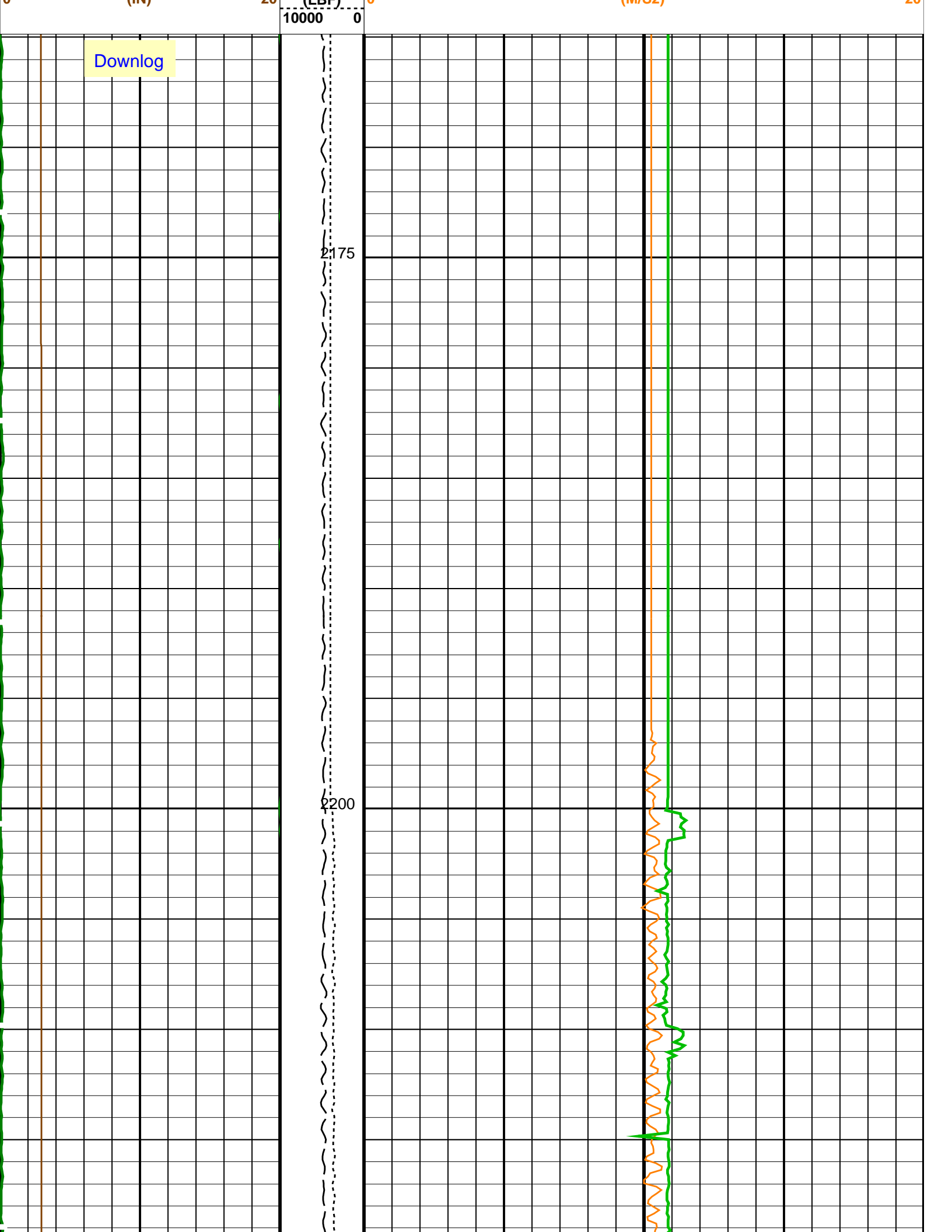
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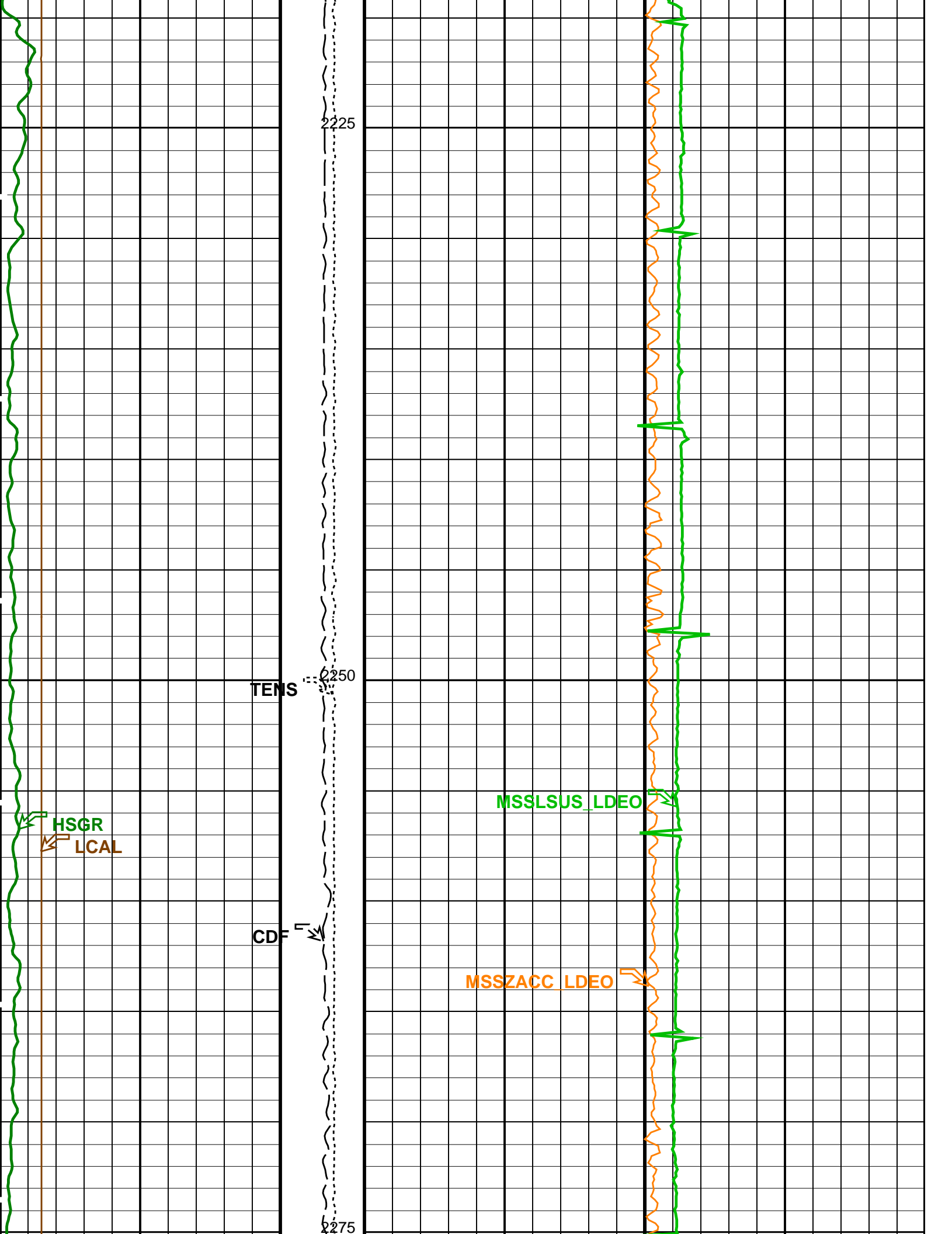
Sea Floor
Open Hole

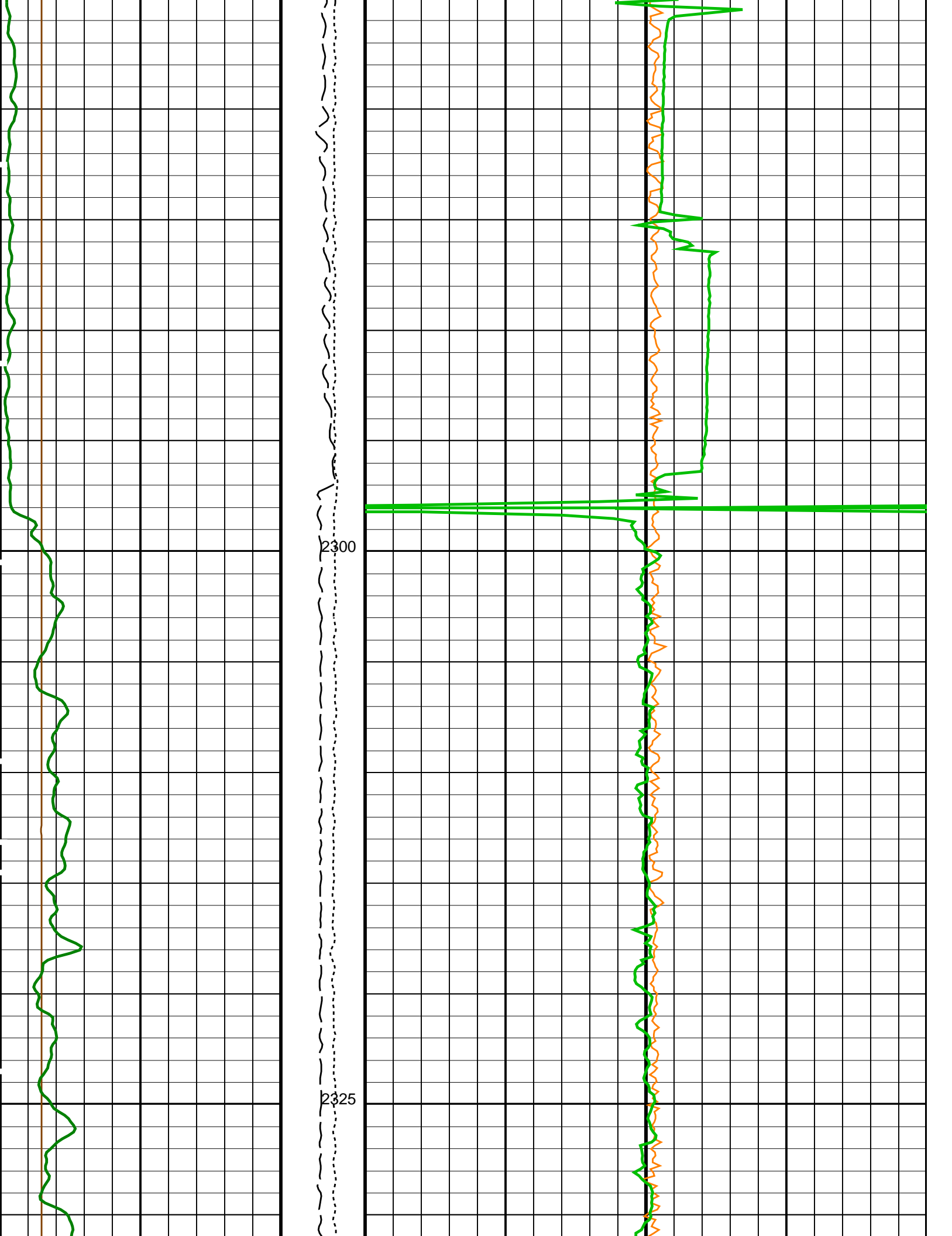
Total Depth

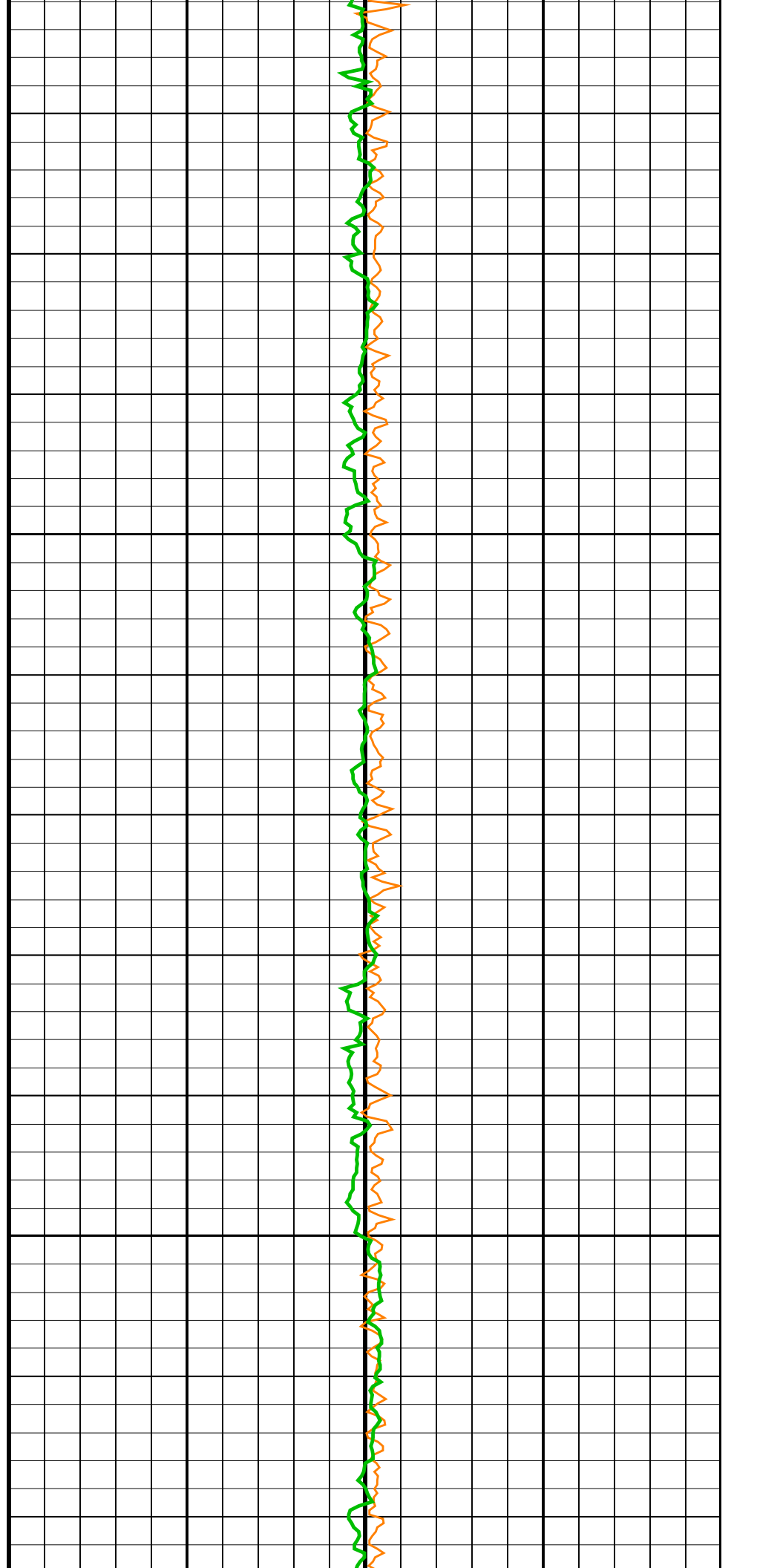
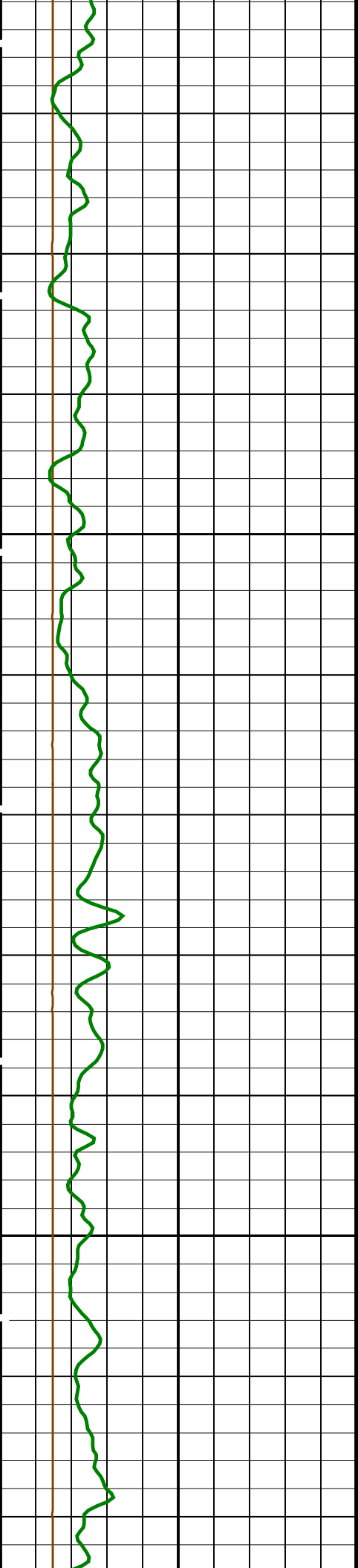
Input DLIS Files						
DEFAULT	Flip_MSS_LDEO_HRLA_013LUP		PRODUCER	04-Aug-2021 08:27	2813.8 M	2164.8 M
Output DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_016PUP	FN:22	PRODUCER	04-Aug-2021 08:44	2813.8 M	2164.8 M
BACKUP	MSS_LDEO_HRLA_LDL_016PUP	FN:23	PRODUCER	04-Aug-2021 08:44	2813.8 M	2164.8 M
OP System 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		DTC-H	19C0-187		

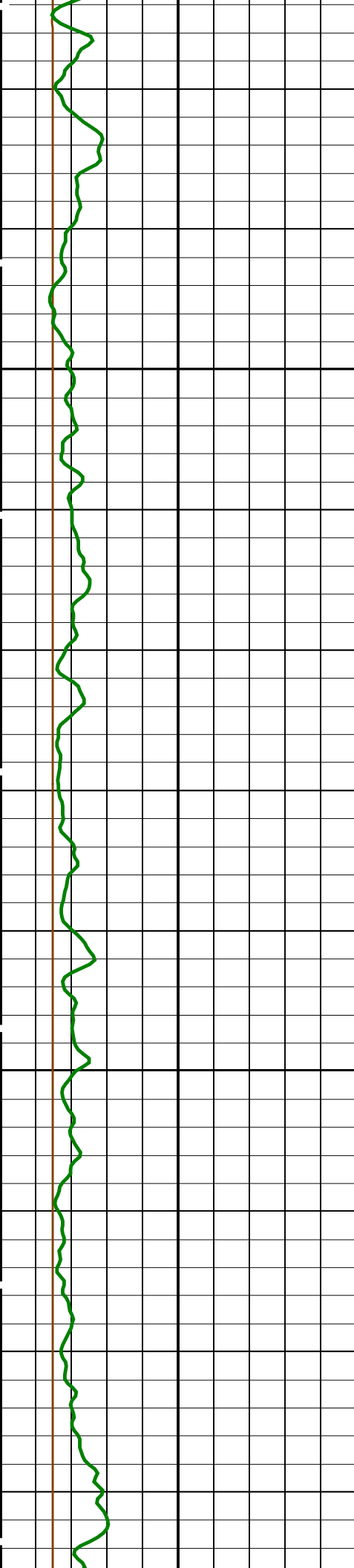
PIP SUMMARY						
Time Mark Every 60 S						
HNGS Spectroscopy Gamma Ray (HSGR)			Calibrated Downhole Force (CDF) (LBF)	Dual-Coil Susceptibility (MSSL SUS_LDEO)		
0 (GAPI) 100				-10000 (PPM) 10000		
			3000 0			
HLDS Caliper (LCAL)			Tension (TENS) (LBF)	Axial Acceleration (MSSZACC_LDEO)		
0 (IN) 20				0 (M/S2) 20		





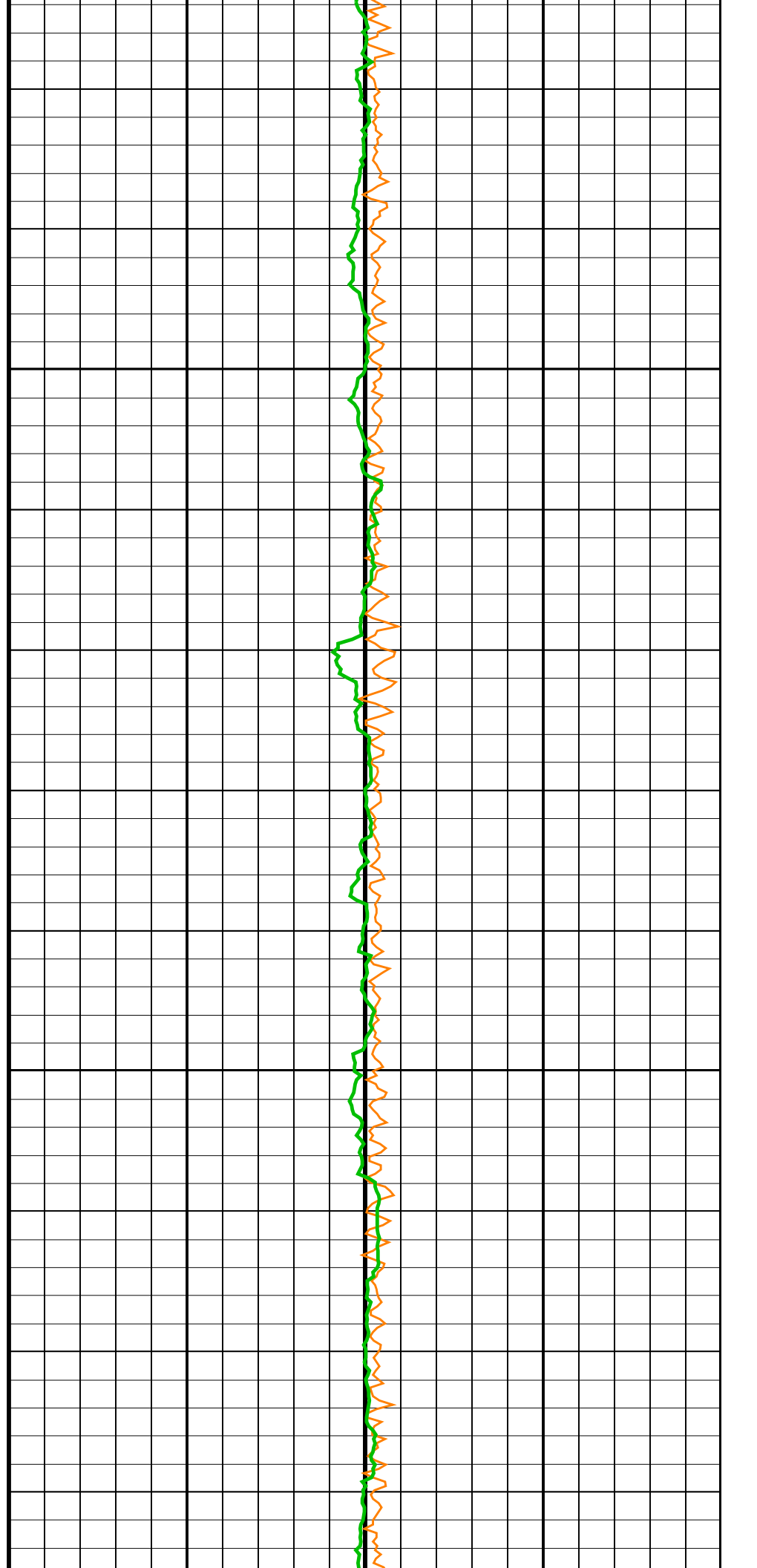


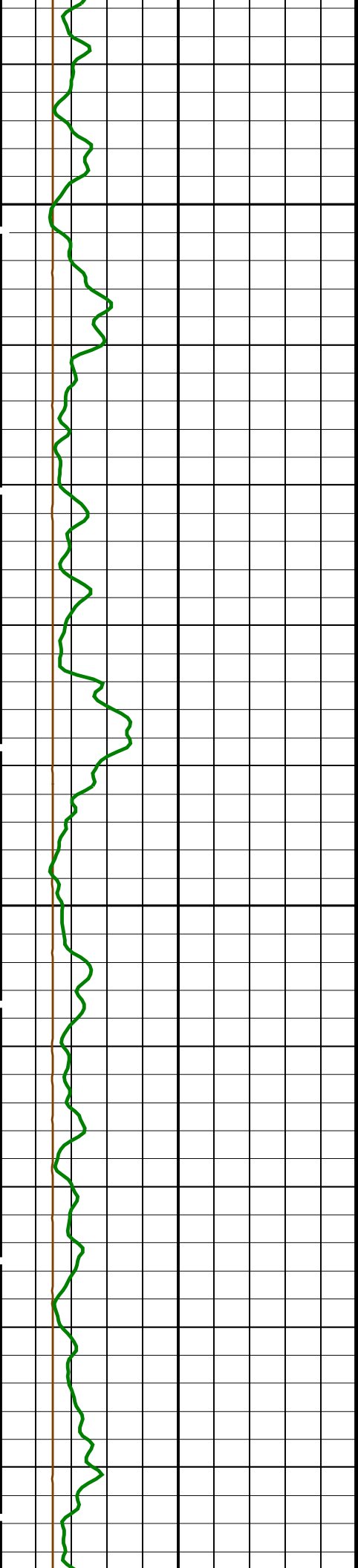




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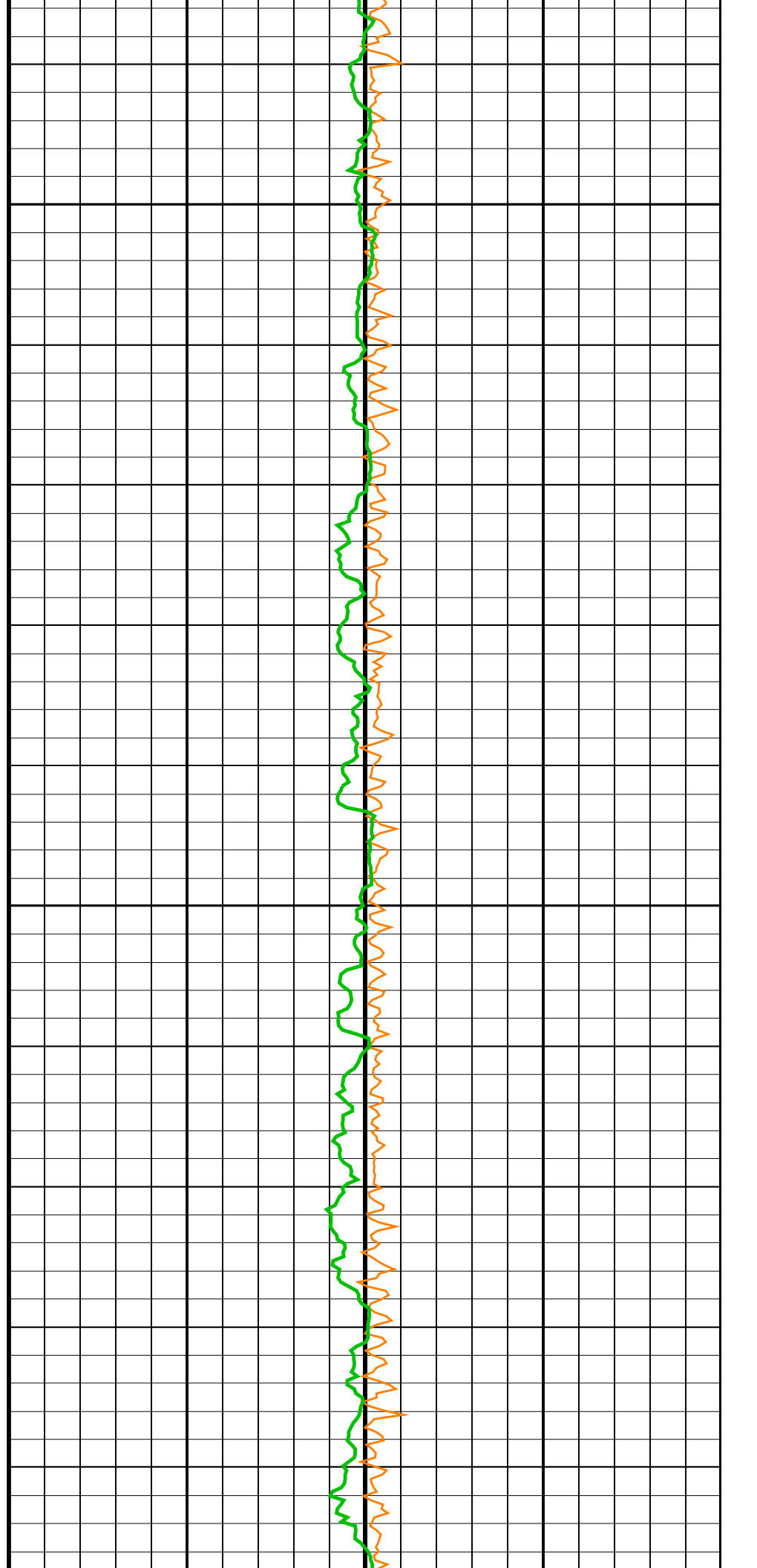
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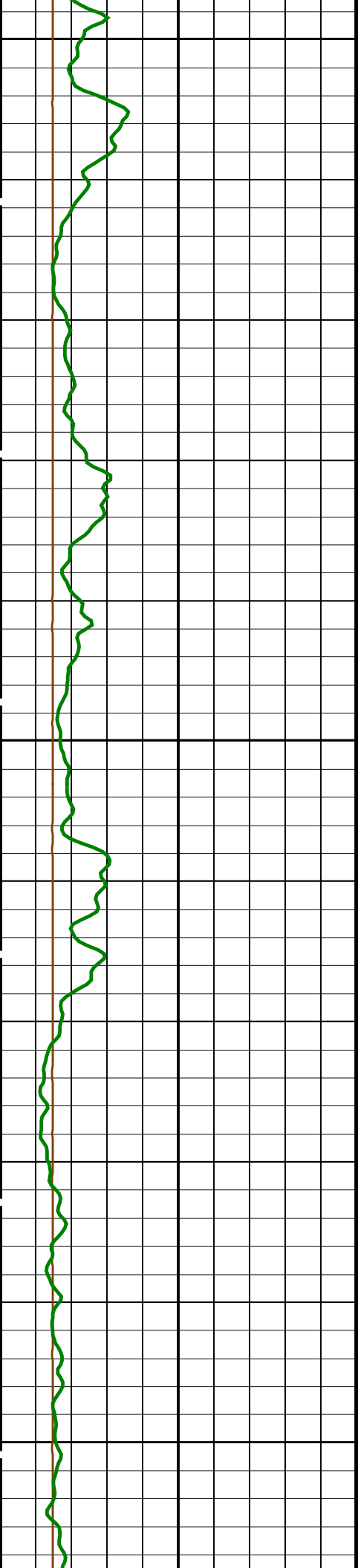




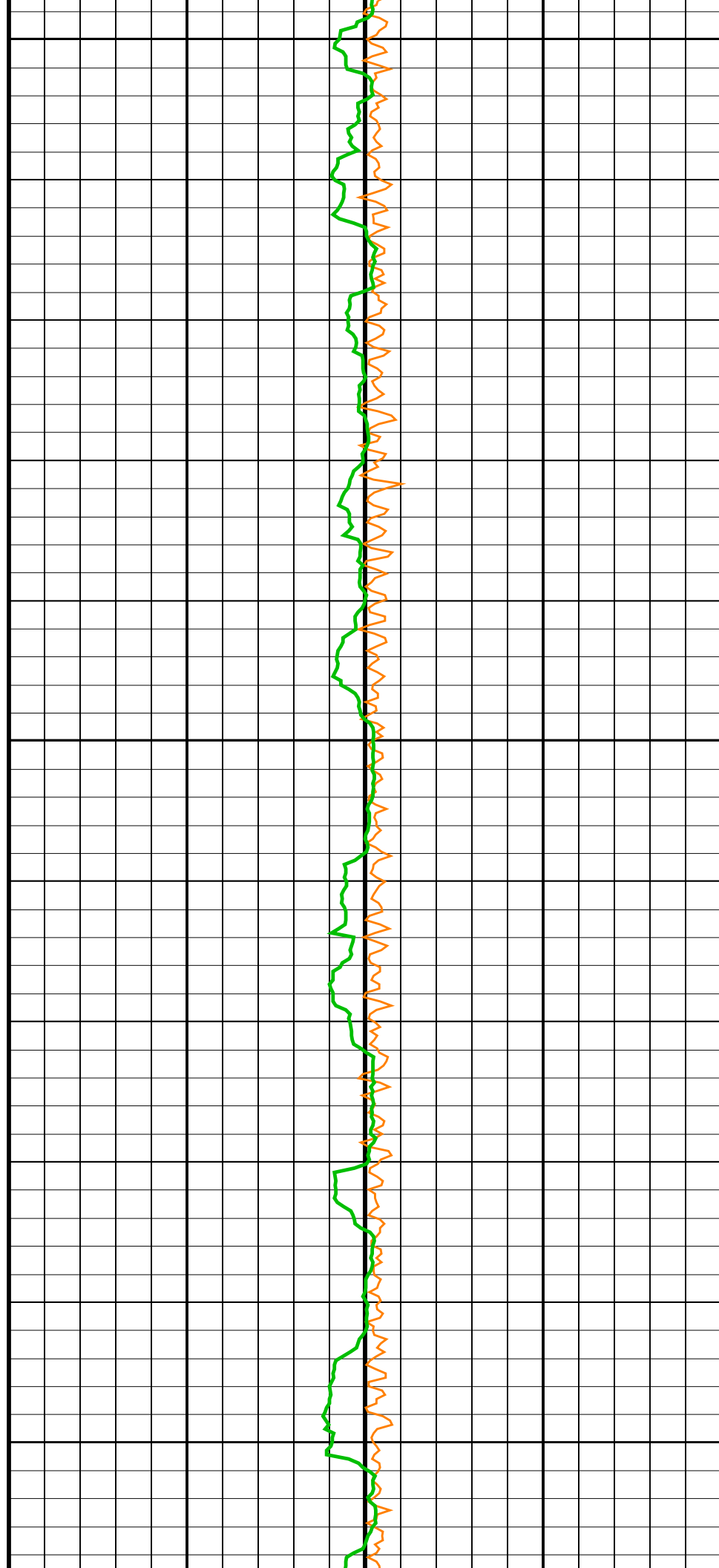
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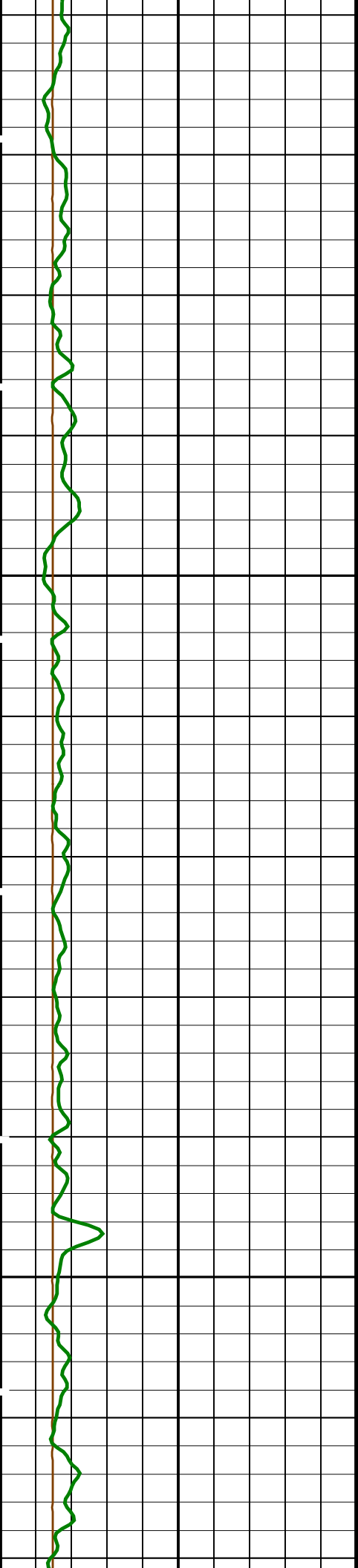
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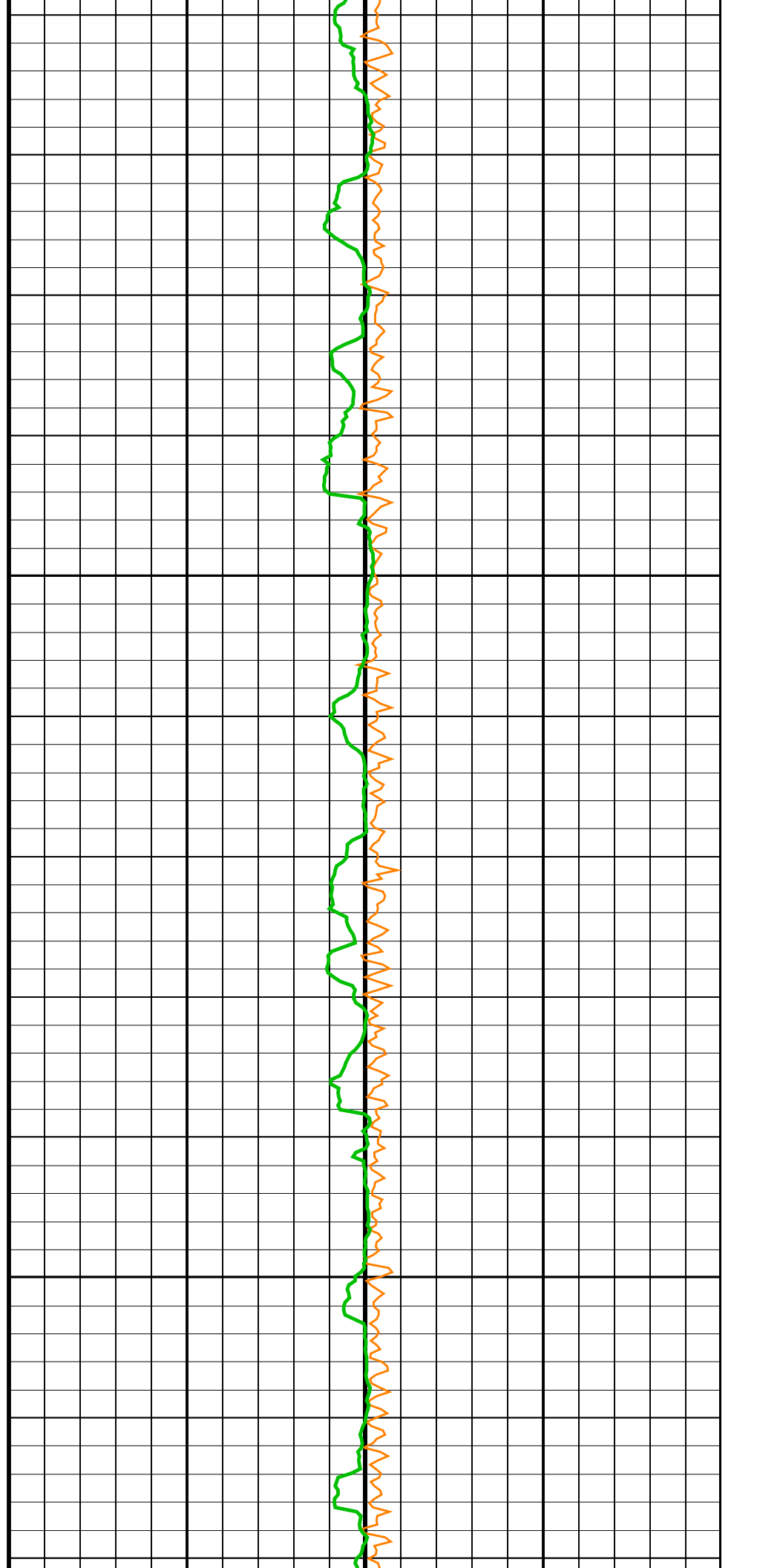
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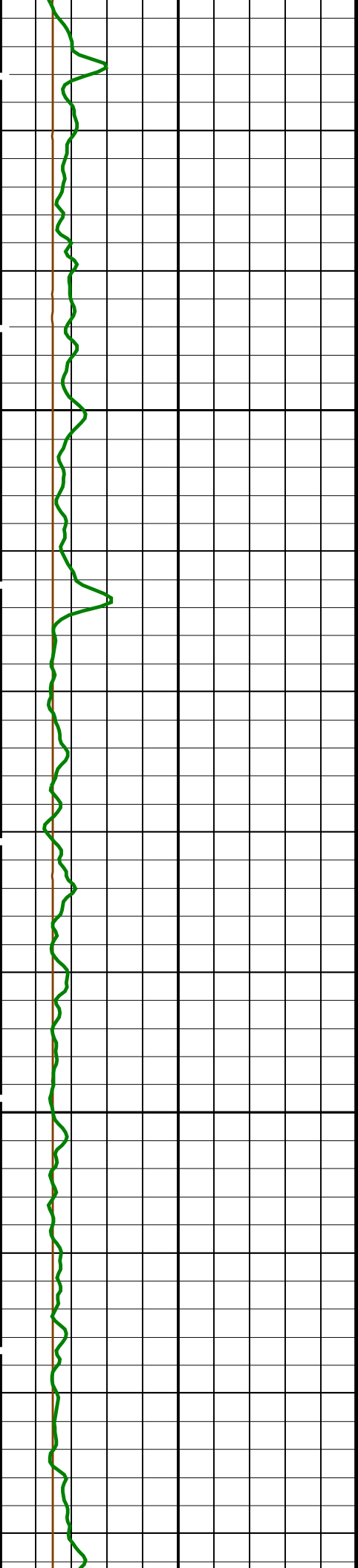




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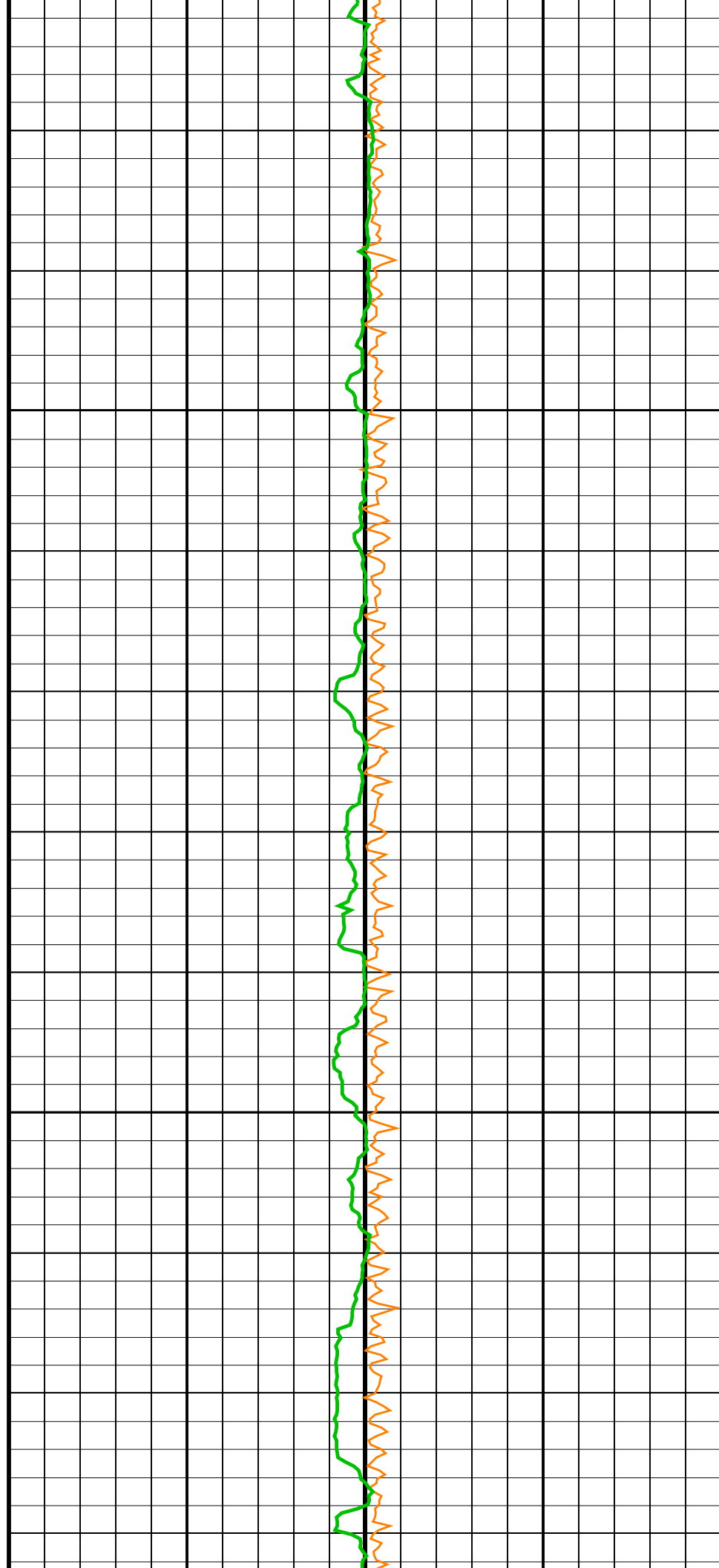
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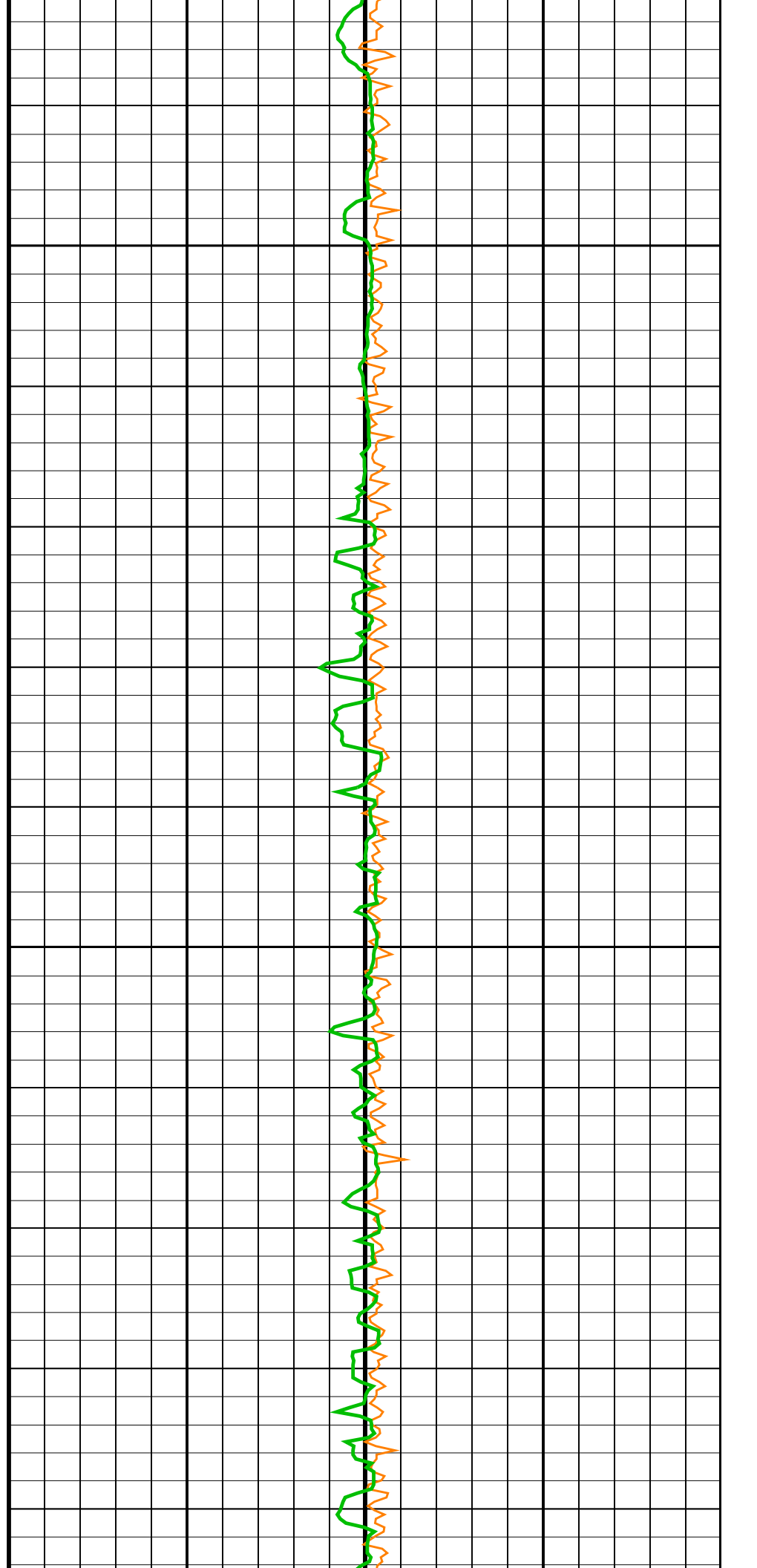
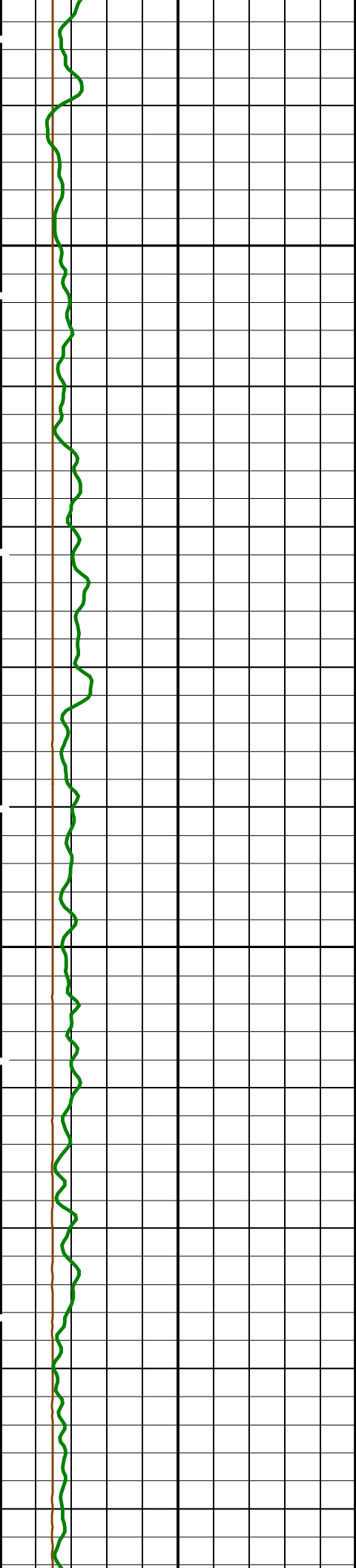


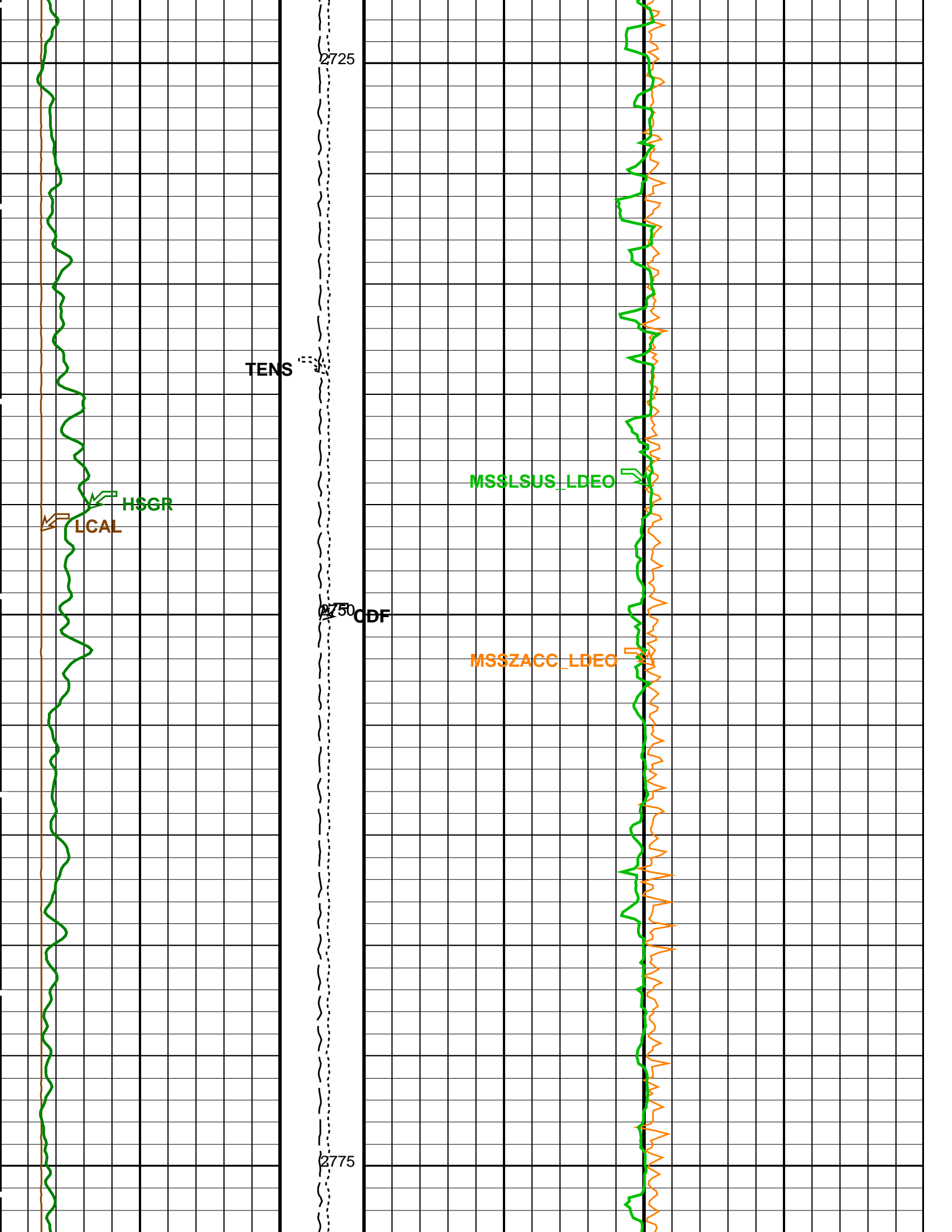


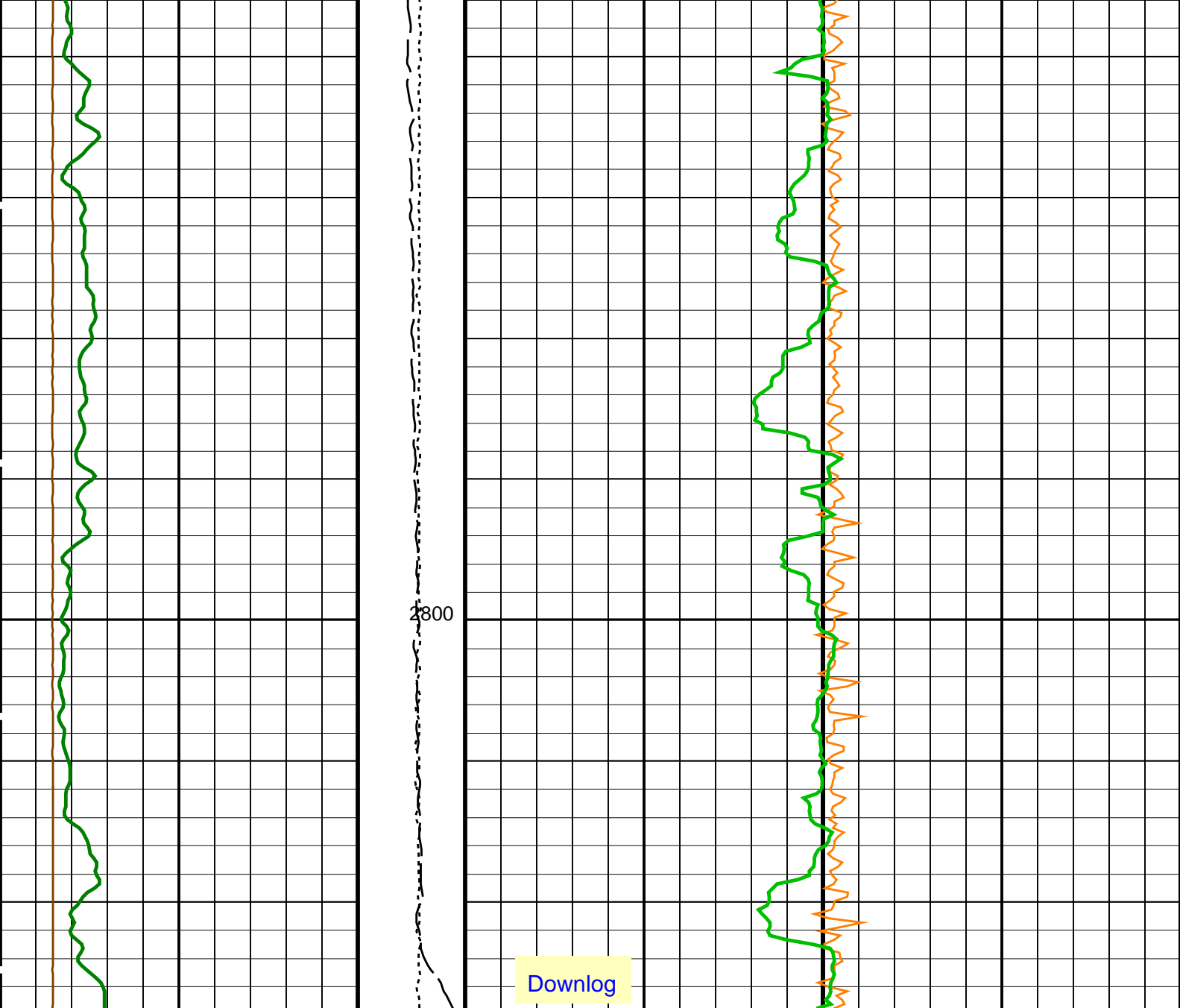
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2650









HLDS Caliper (LCAL) (IN)		Tension (TENS) (LBF)	Axial Acceleration (MSSZACC_LDEO) (M/S2)	
0	20	10000 0	0	20
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)		Calibrated Downhole Force (CDF) (LBF)	Dual-Coil Susceptibility (MSSL SUS_LDEO) (PPM)	
0	100	3000 0	-10000	10000

Time Mark Every 60 S

PIP SUMMARY

Parameters		
DLIS Name	Description	Value
HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	7 DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE
CALTEMP	HRLTB Calibration Temperature	8.73849 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	80

FREQ3	HRLT Frequency Index for Mode 3	56	
FREQ4	HRLT Frequency Index for Mode 4	44	
FREQ5	HRLT Frequency Index for Mode 5	116	
FREQ6	HRLT Frequency Index for Mode 6	BS	
GCSE	Generalized Caliper Selection	0	DEG
GDEV	Average Angular Deviation of Borehole from Normal	0.018227	DC/M
GGRD	Geothermal Gradient	CHART_GEN 9	
GRSE	Generalized Mud Resistivity Selection	LINEAR_ESTIMATE	
GTSE	Generalized Temperature Selection	NOBARITE	
ISSBAR	Barite Mud Switch	SONDE	
KFAC_HRLT	HRLT K Factor Option	LOW	
LOOPCOEF_S	HRLT Loop Coefficient for Shallow Modes	OFF	
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	
PROCSPO	Sonde Position	Centered	
SHT	Surface Hole Temperature	20	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	2.6	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1500	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	
APS-C: Accelerator-Porosity Tool			
AASD	APS Software Version	5	
ADSO	APS Thermal and Array Detectors High Voltage Setting	1976.24	V
AFSD	APS Array Detectors Data Source Switch	Both	
AHCS	APS Far Detector High Voltage Setting	2067.55	V
AHSS	APS Holesize Correction Source	GCSE	
AMTY	APS Holesize Correction Switch	ON	
ANSD	APS Environmental Corrections Mud Type	WaterBaseBarite	
ASOS	APS Near Detector High Voltage Setting	1737.8	V
ATSS	APS Standoff Correction Switch	ON	
BHFL_APS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHS	APS TNPH Borehole Fluid Type	WATER	
BHT	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC
BSCO_APS	APS TNPH Borehole Salinity Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source Correction Option	MEASURED	
FSAL	Formation Salinity	-50000	PPM
FSCO_APS	APS TNPH 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_APS	APS TNPH Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	NO	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.08341	
NFRC	APS Near/Far Calibration Ratio	0.942369	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	NO	
SHT	Surface Hole Temperature	20	DEGC
TNCO_APS	APS TNPH Computation Option	YES	
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)	7	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	0.00230596	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.952401	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	2.78357	
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	38000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	23.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	9345.14	FT
TDD	Total Depth - Driller	2848.40	M
TDL	Total Depth - Logger	2848.40	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 04-Aug-2021 08:44

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	DTC-H	19C0-187

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_013LUP	PRODUCER	04-Aug-2021 08:27	2813.8 M	2164.8 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016PUP	FN:22	PRODUCER	04-Aug-2021 08:44
BACKUP	MSS_LDEO_HRLA_LDL_016PUP	FN:23	PRODUCER	04-Aug-2021 08:44

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_013LUP	PRODUCER	04-Aug-2021 08:27	2813.8 M	2164.8 M
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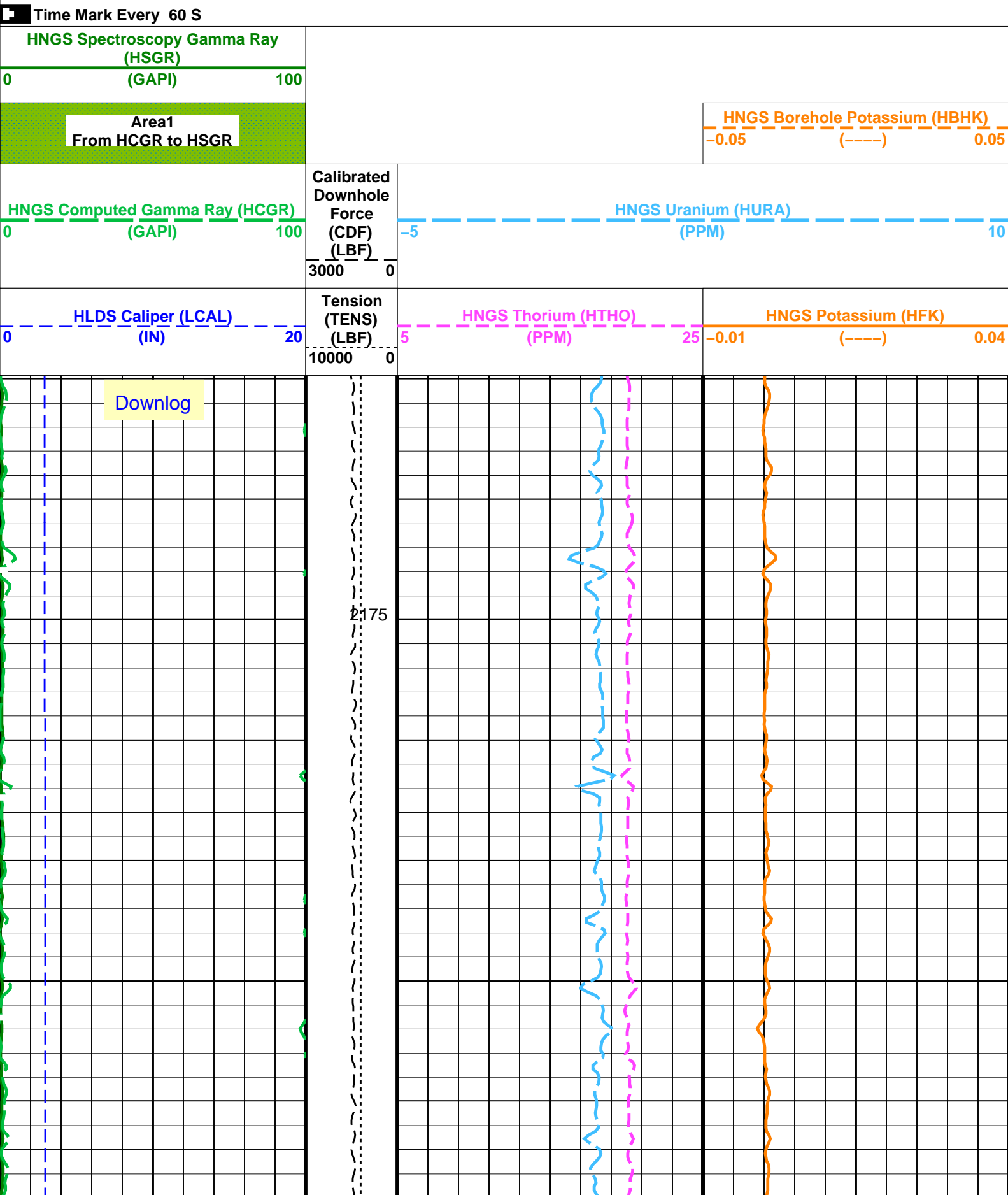
Output DLIS Files

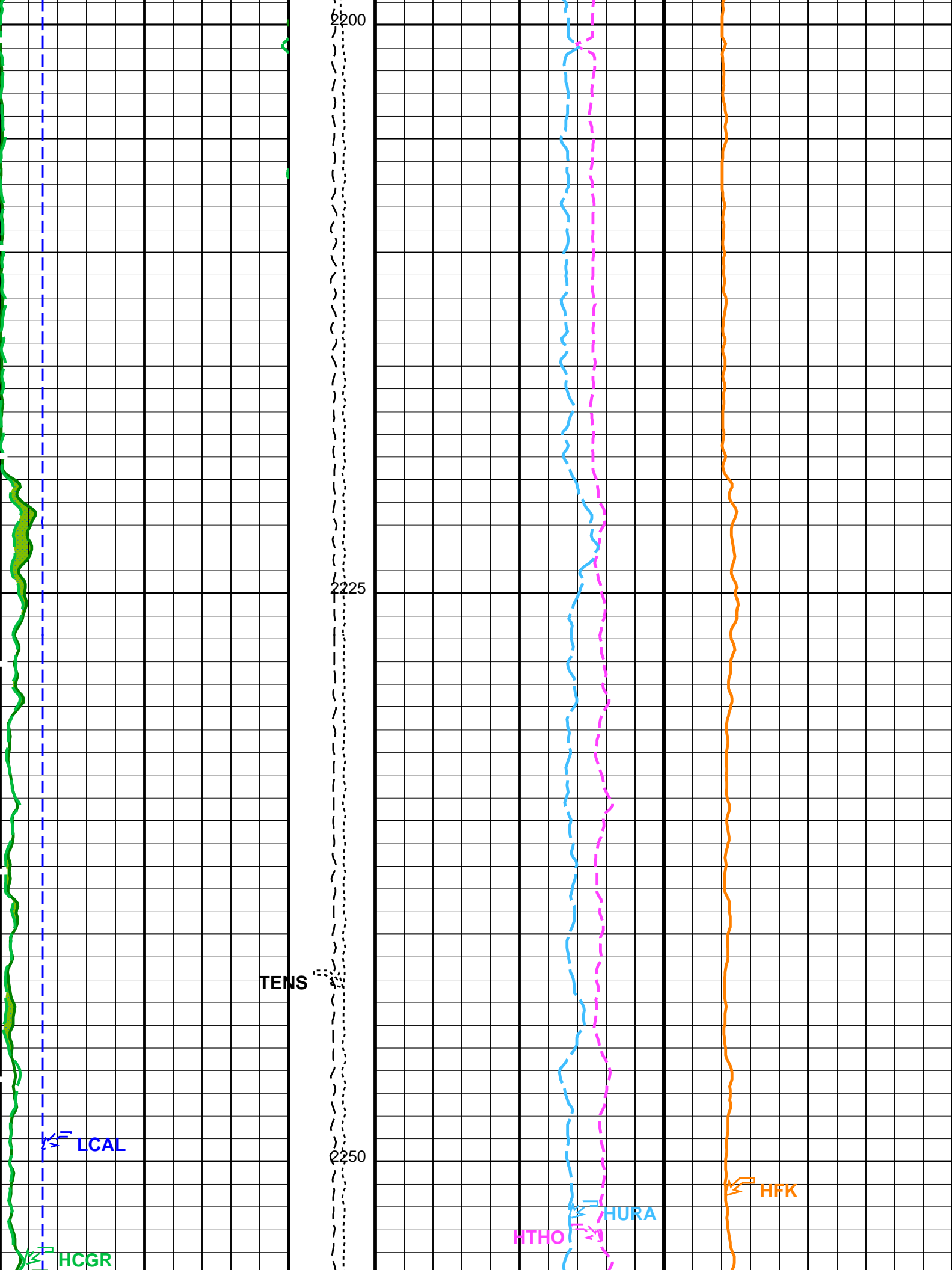
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BACKUP	MSS_LDEO_HRLA_LDL_016PUP	FN:23	PRODUCER	04-Aug-2021 08:44	2813.8 M	2164.8 M

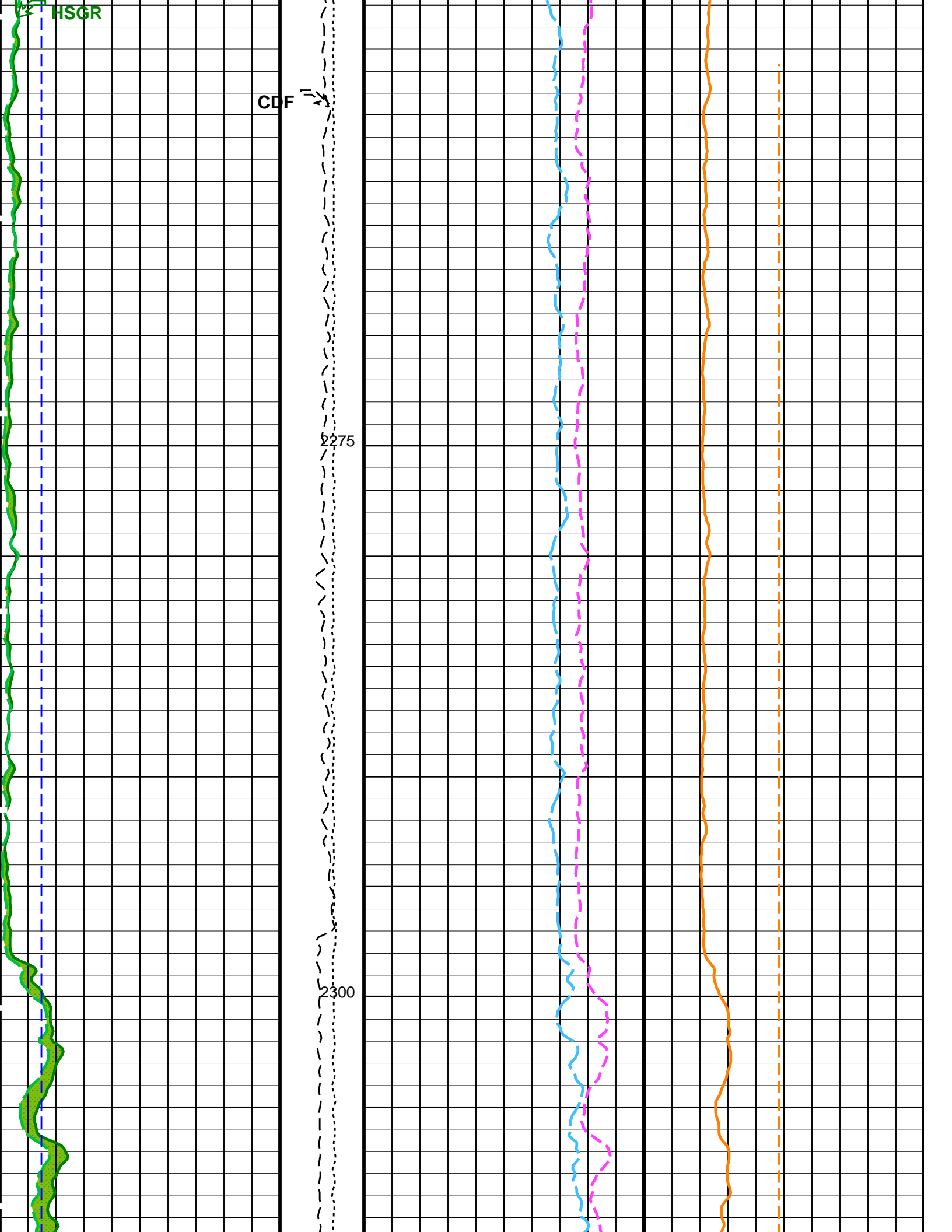
OP System Version: 19C0-187

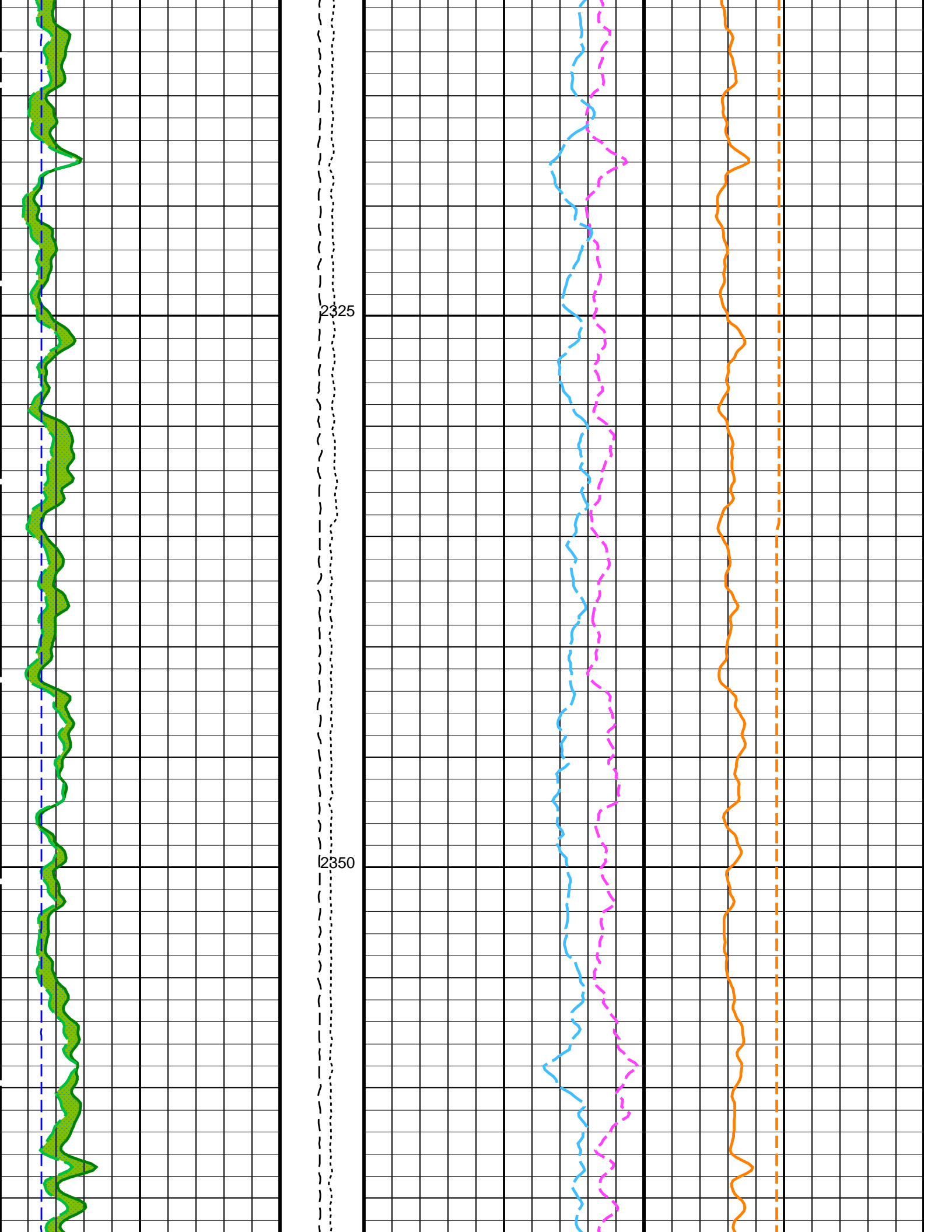
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HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

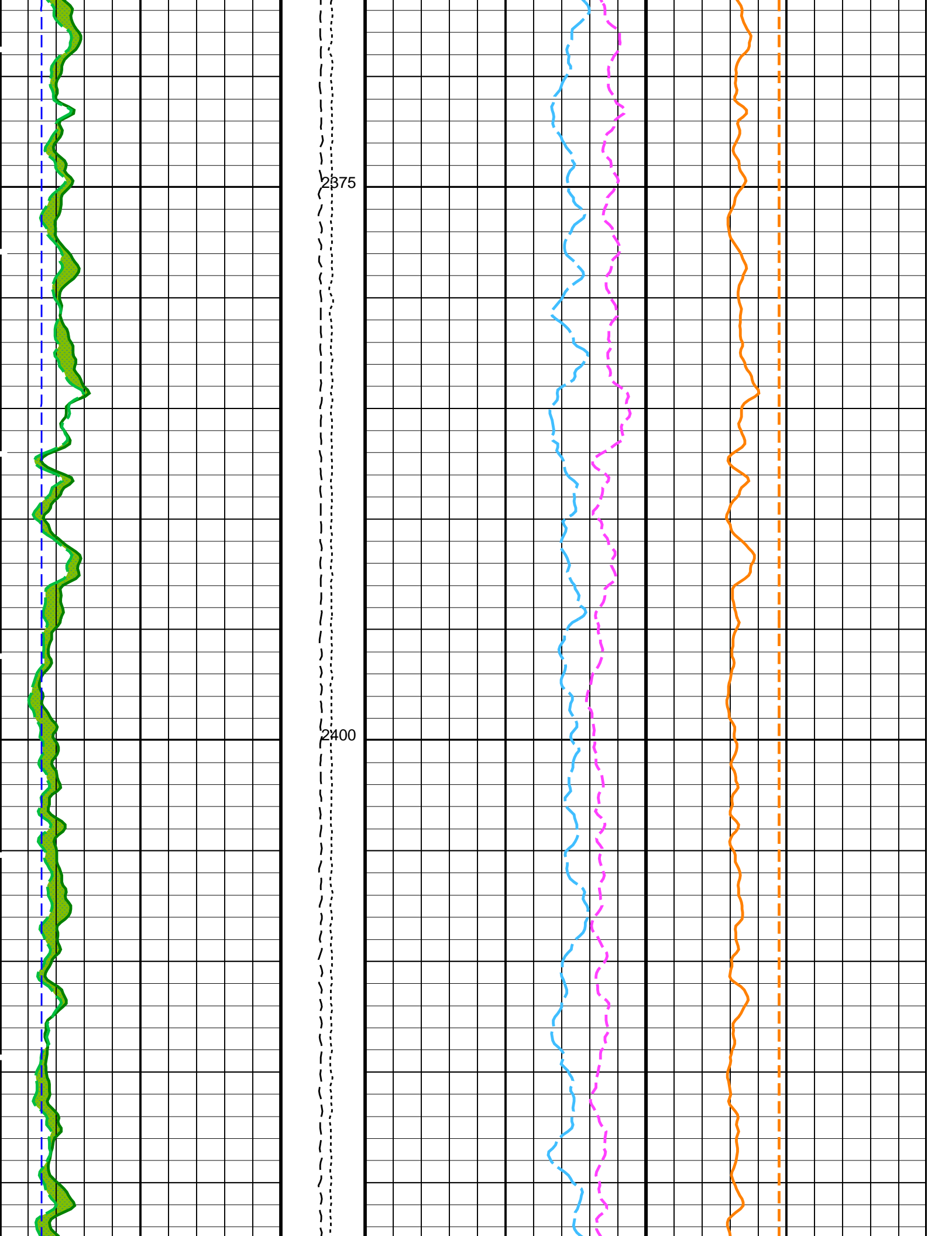
PIP SUMMARY

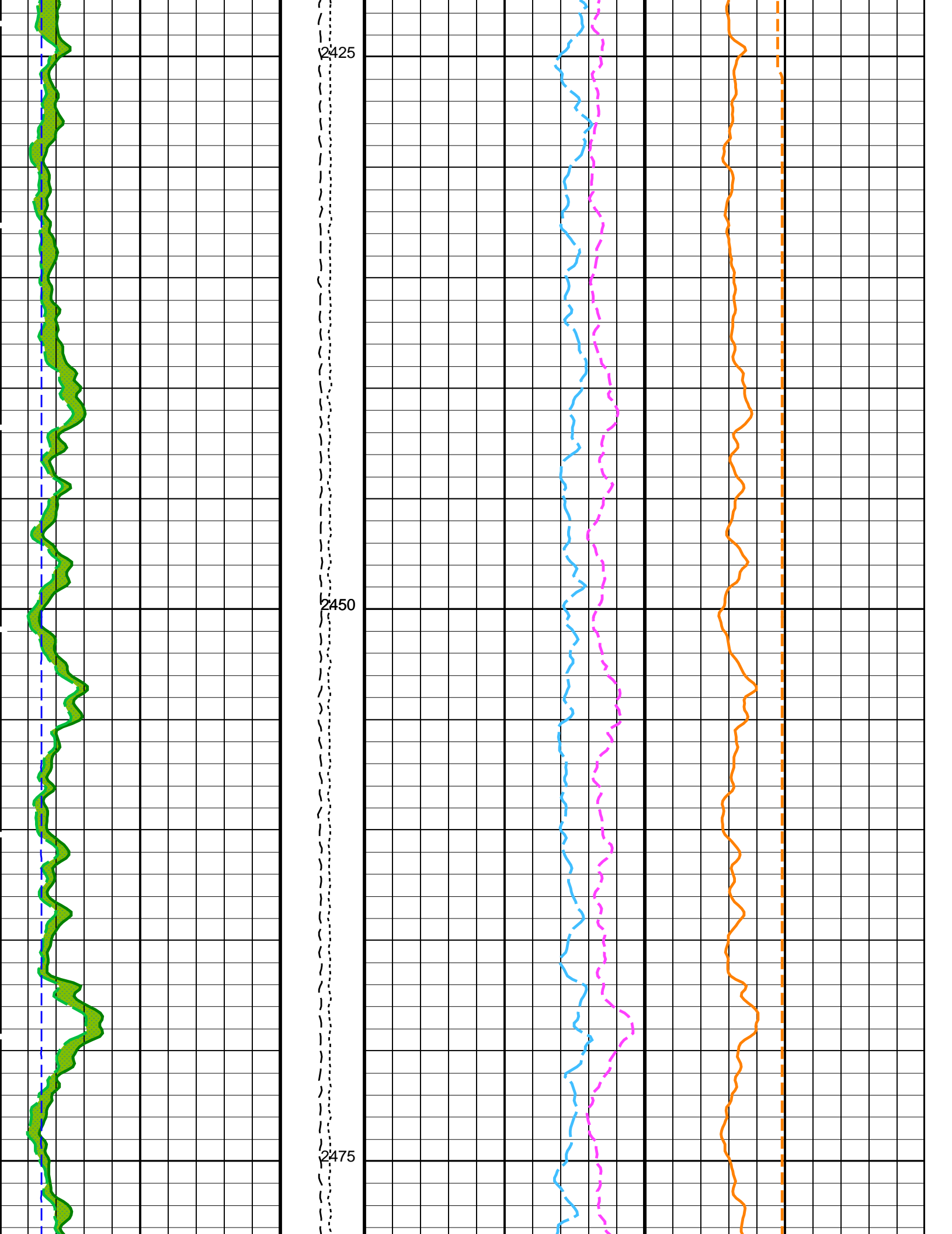


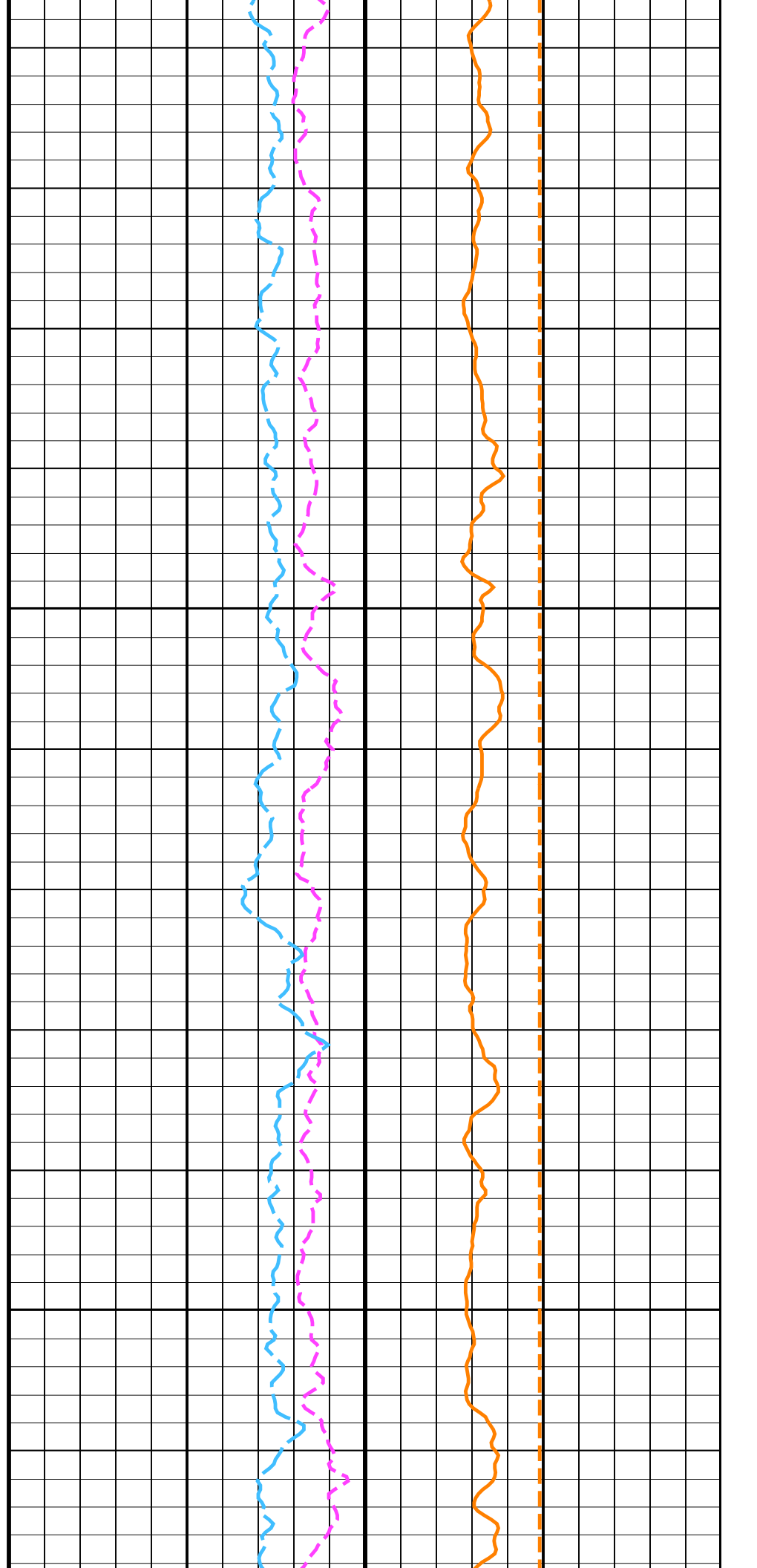
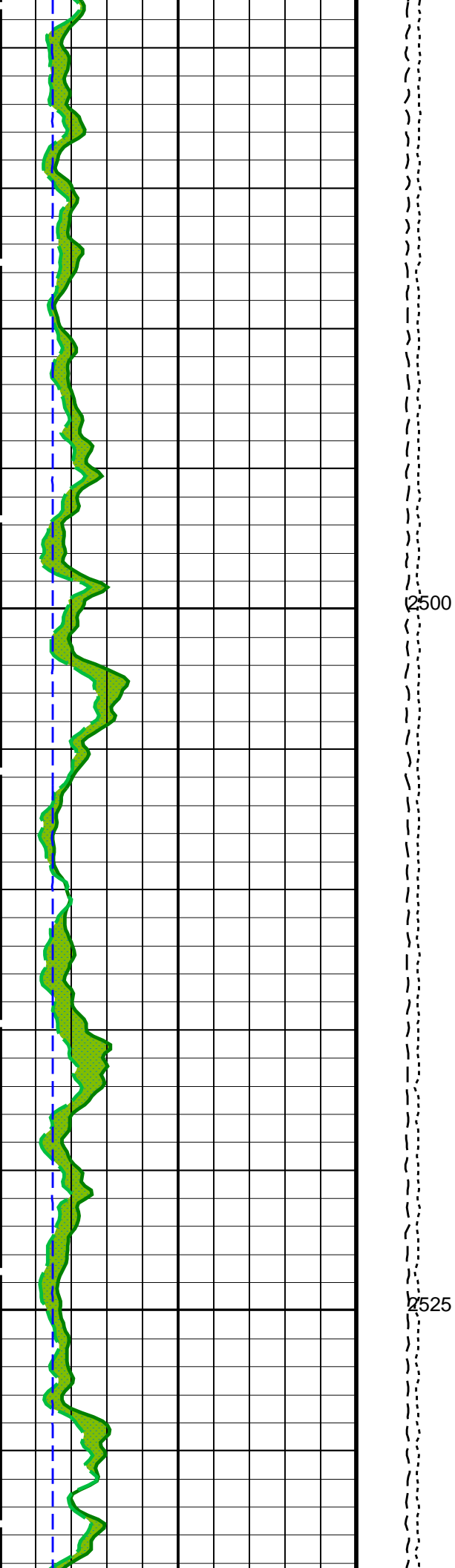


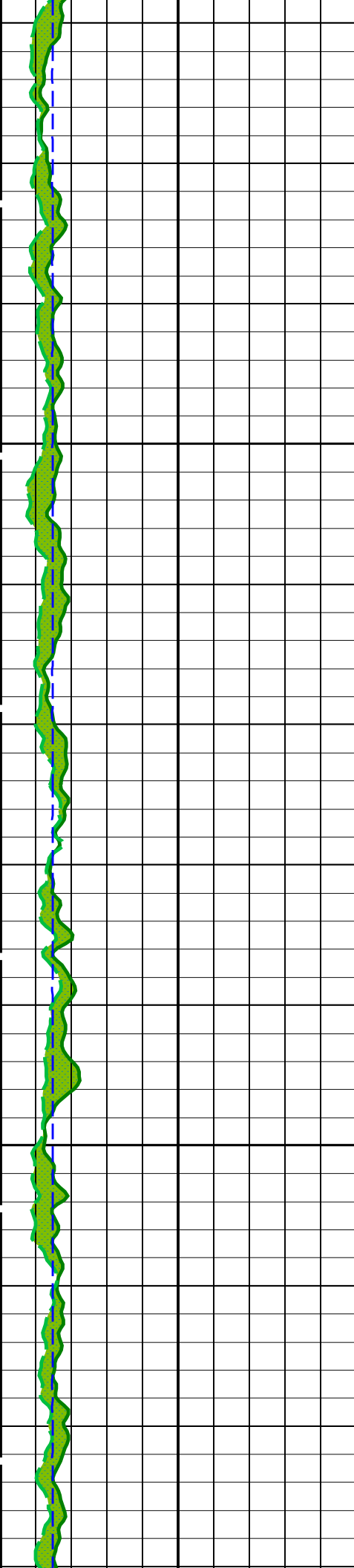




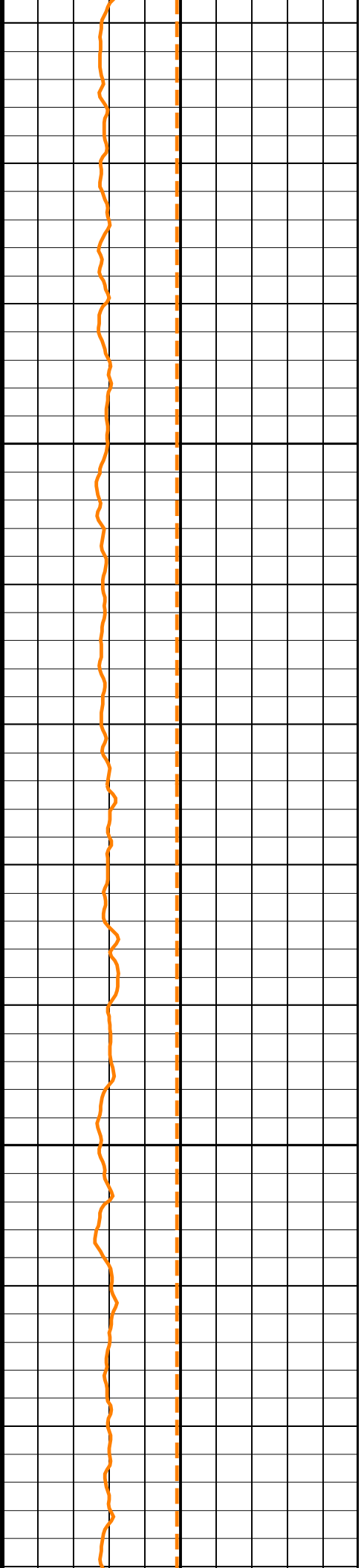
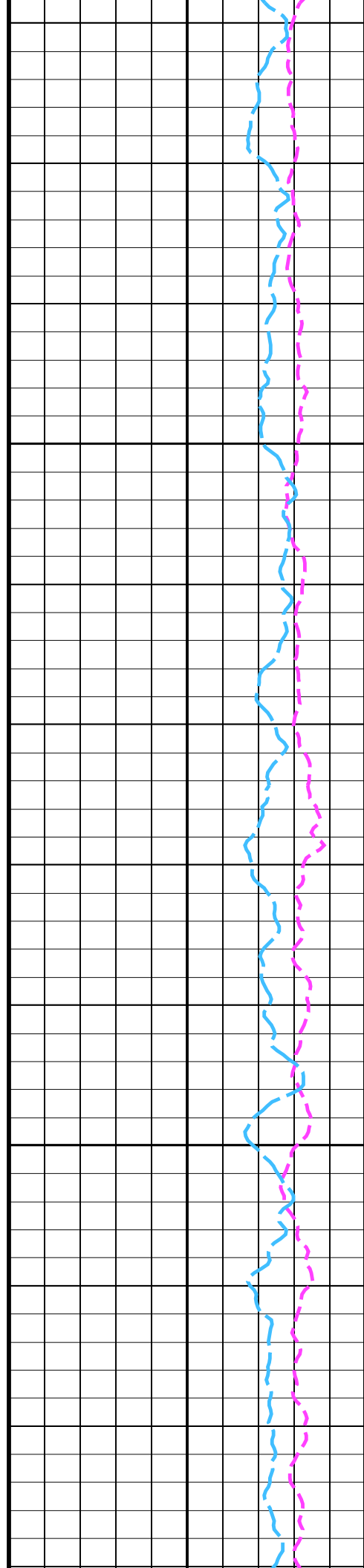


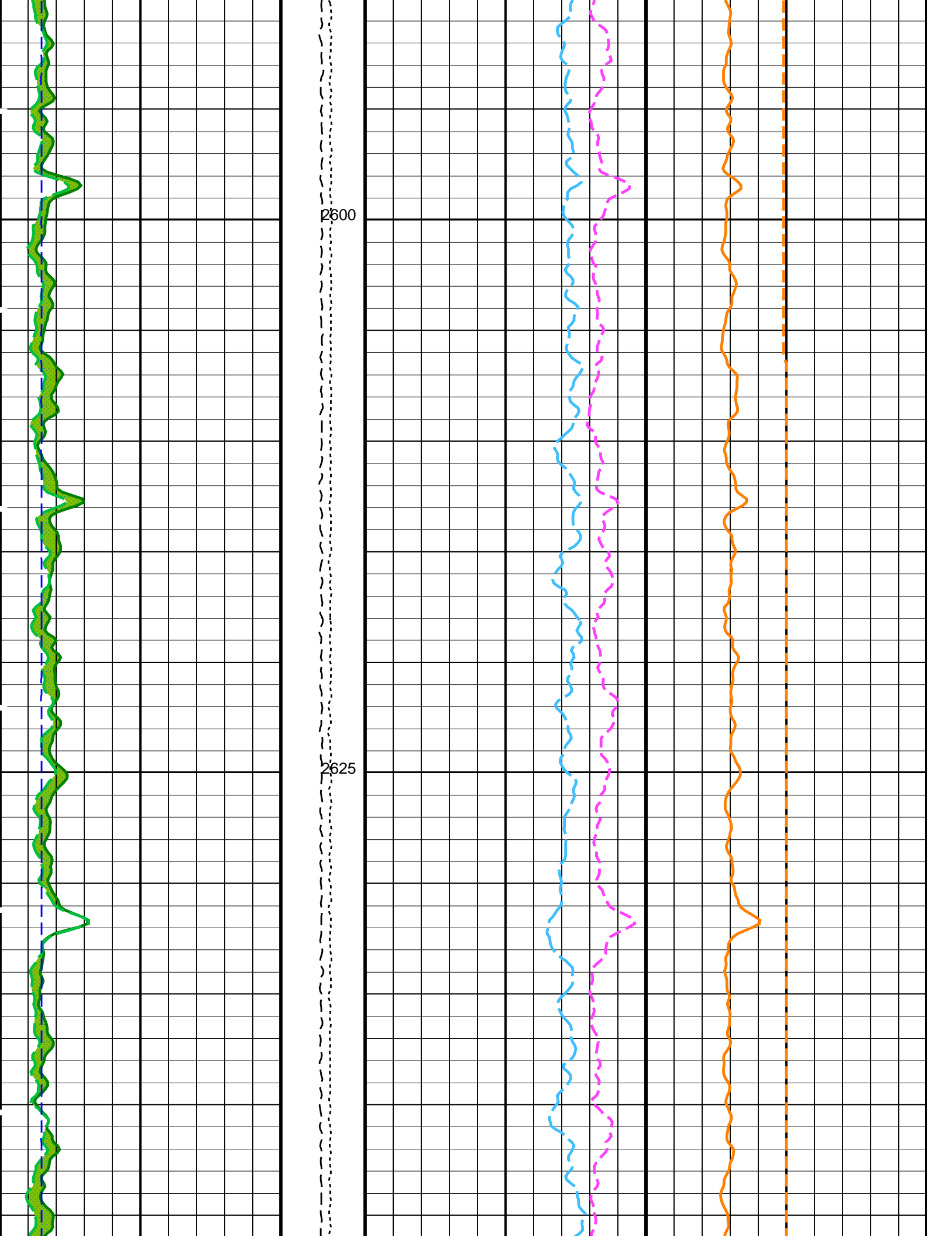


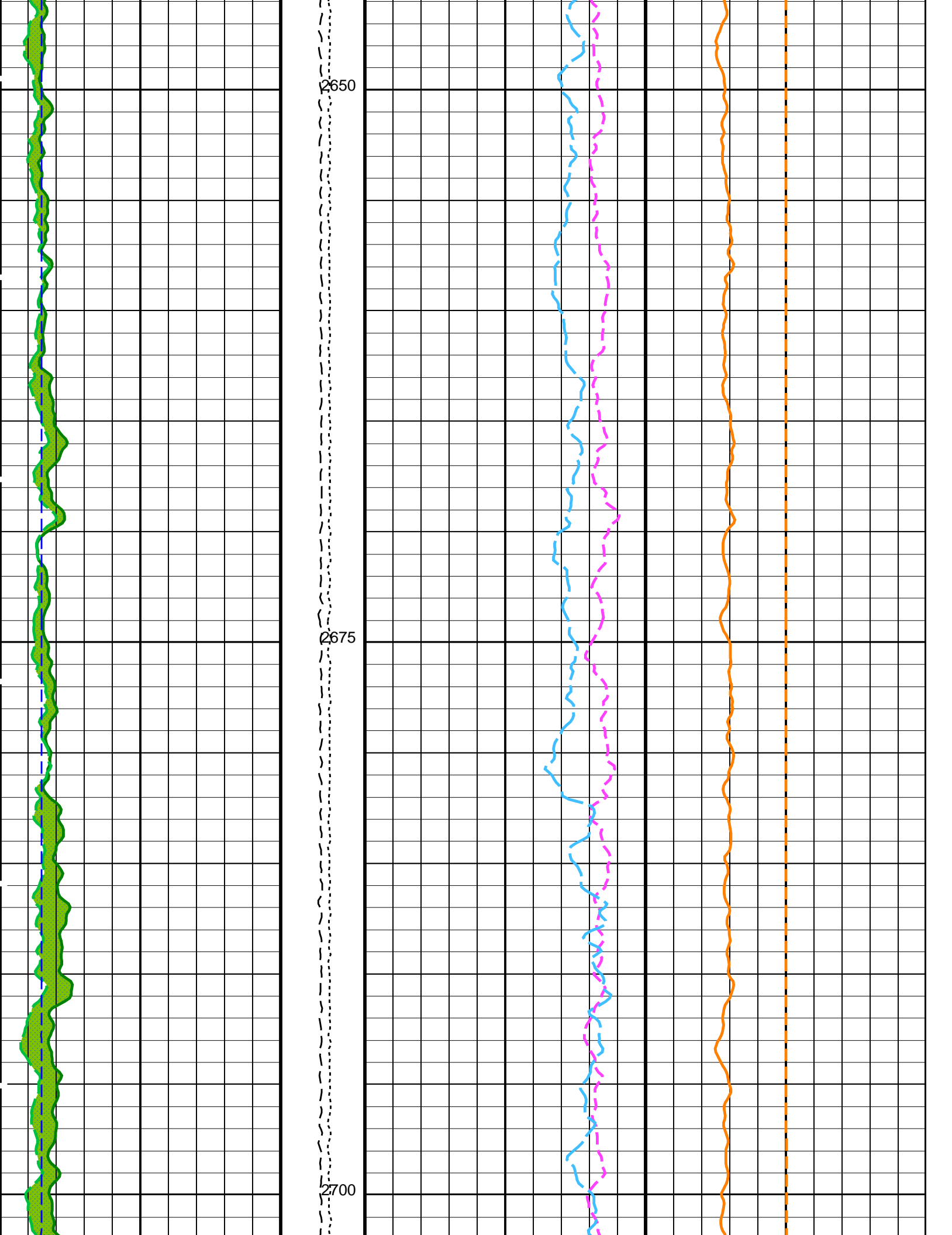


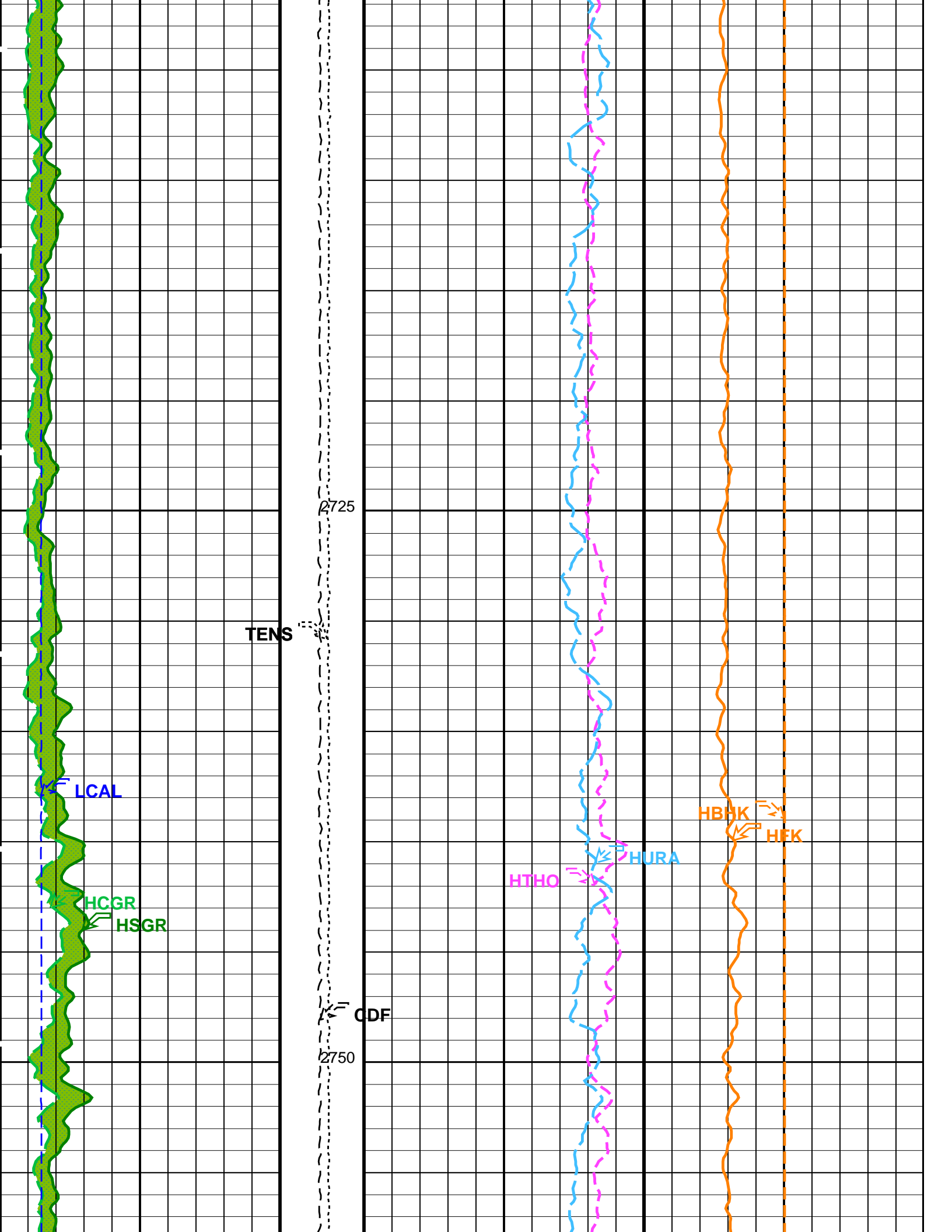


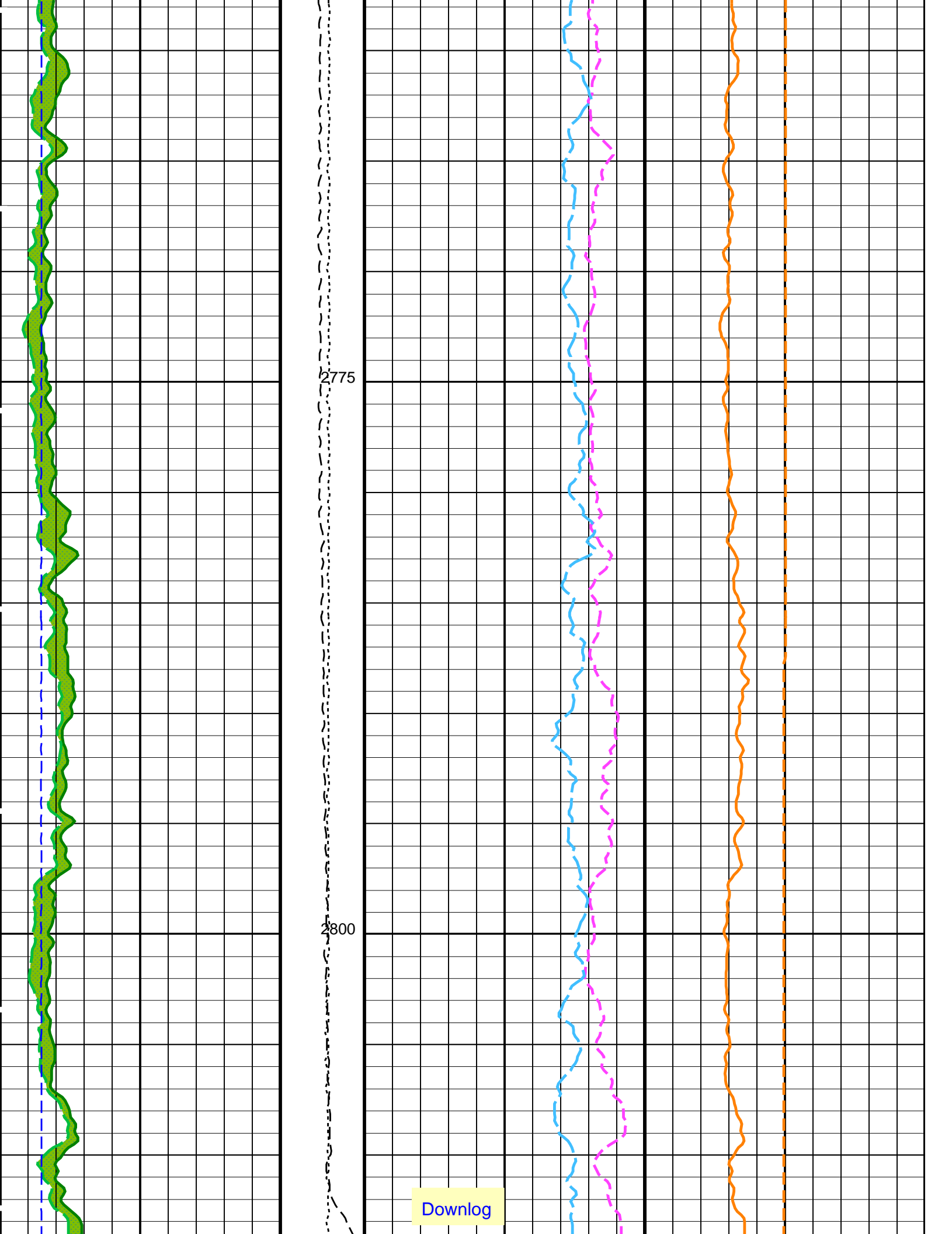
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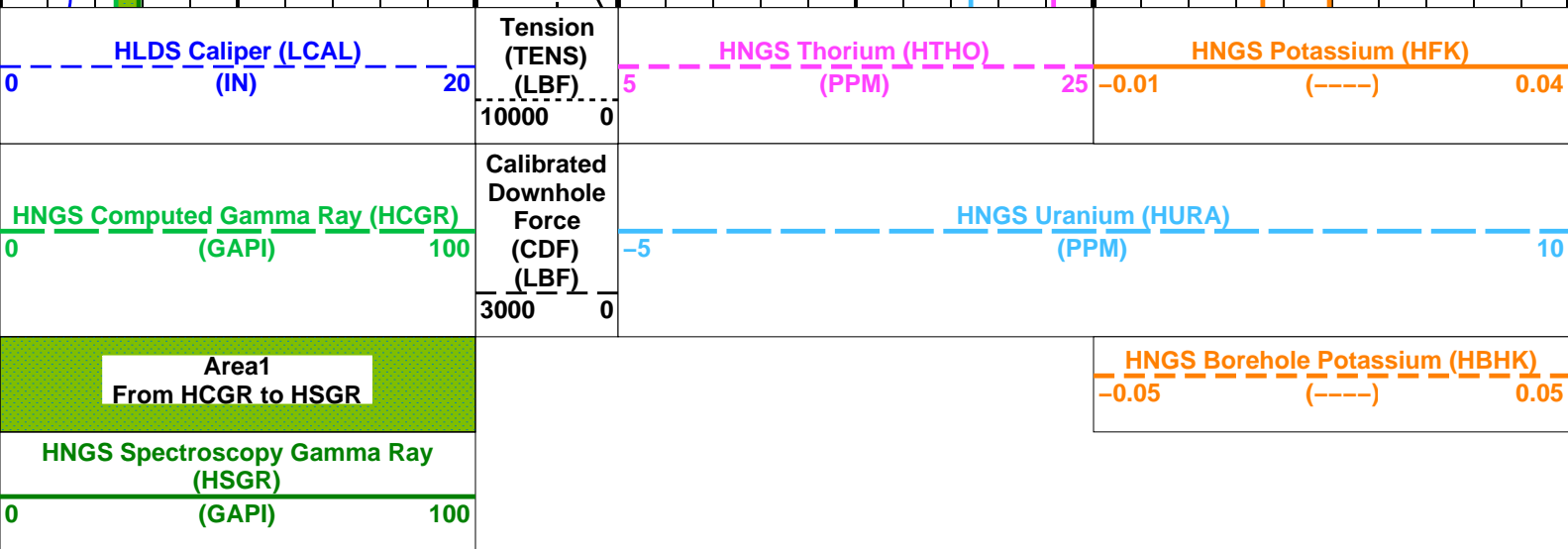












PIP SUMMARY

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	BS	
APS-C: Accelerator-Porosity Tool			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
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	0.00230596	
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	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	0.952401	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	2.78357	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 04-Aug-2021 08:44

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	DTC-H	19C0-187

Input DLIS Files

DEFAULT Flip_MSS_LDEO_HRLA_013LUP PRODUCER 04-Aug-2021 08:27 2813.8 M 2164.8 M

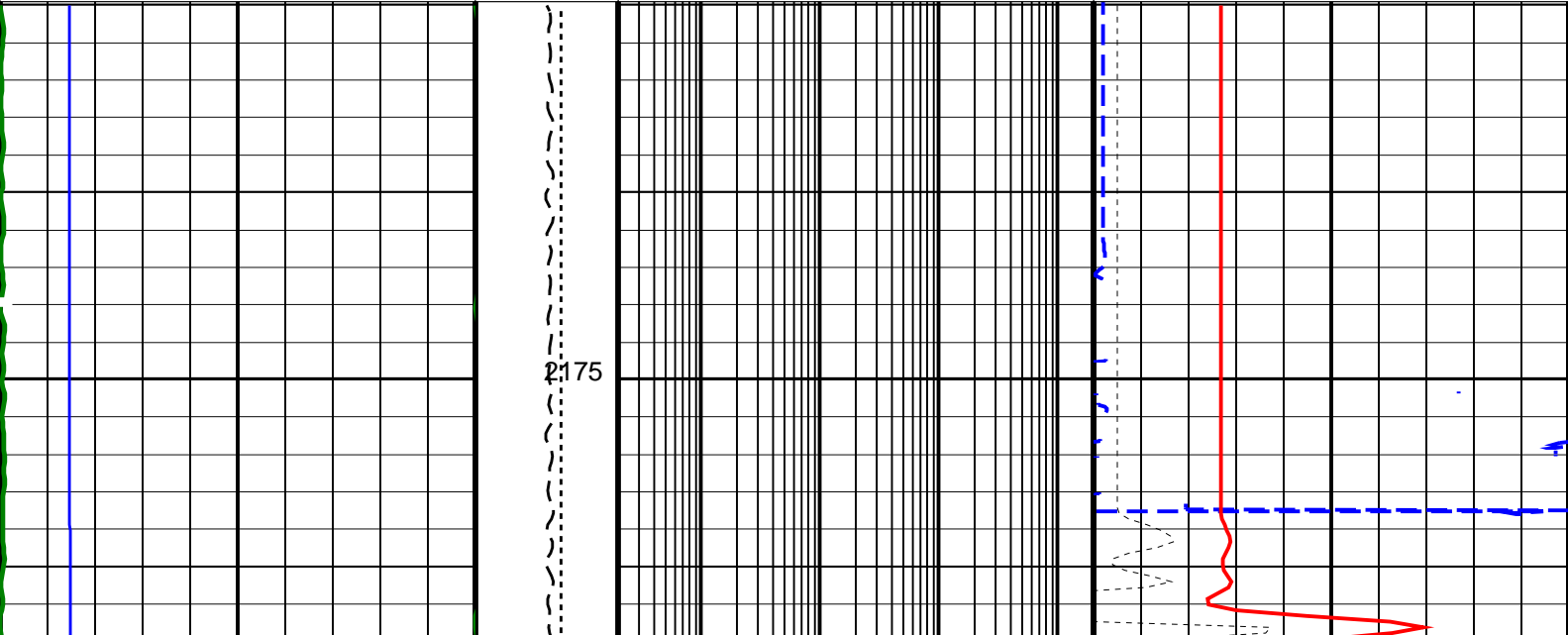
Output DLIS Files

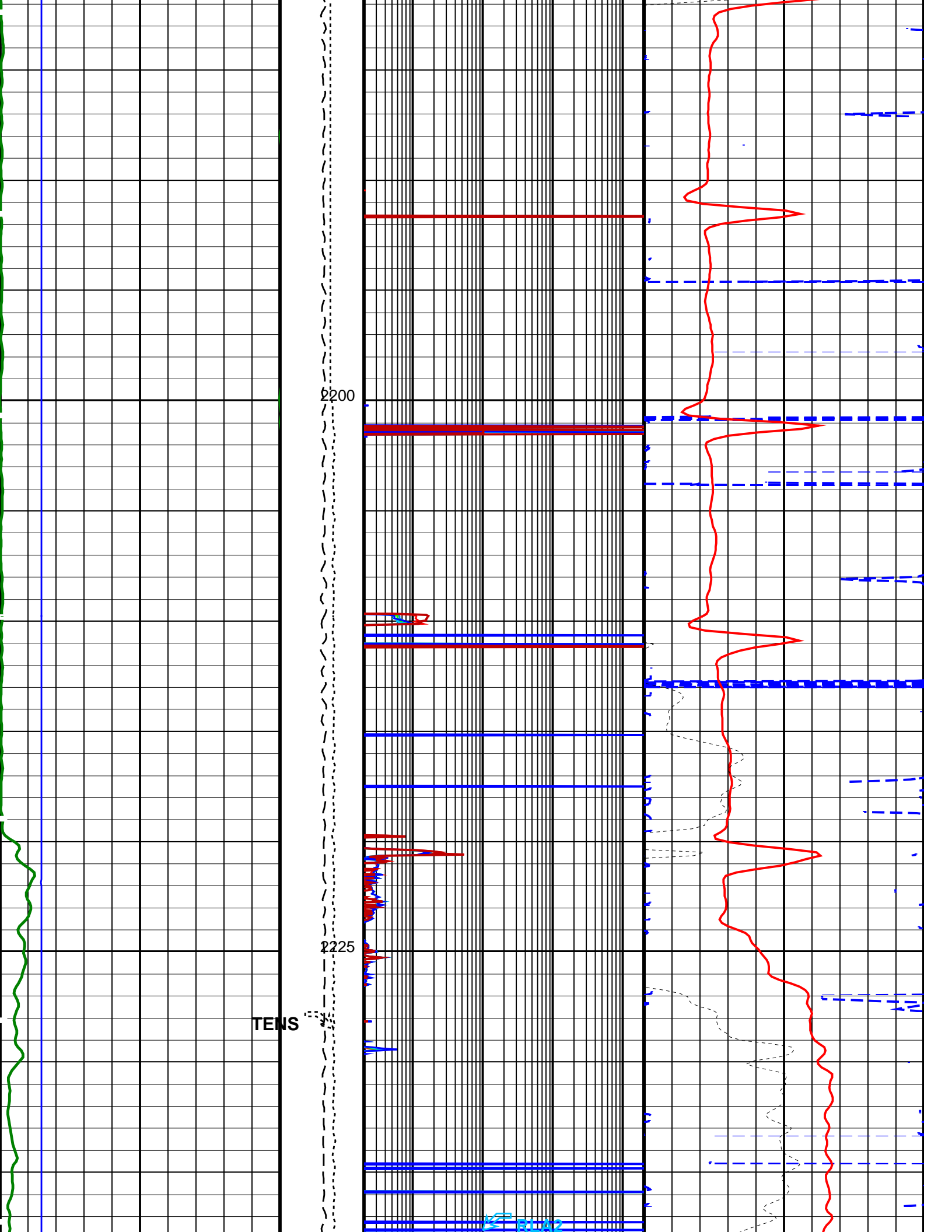
Input DLIS Files						
DEFAULT	Flip_MSS_LDEO_HRLA_013LUP	PRODUCER	04–Aug–2021 08:27	2813.8 M	2164.8 M	
Output DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_016PUP	FN:22	PRODUCER	04–Aug–2021 08:44	2813.8 M	2164.8 M
BACKUP	MSS_LDEO_HRLA_LDL_016PUP	FN:23	PRODUCER	04–Aug–2021 08:44	2813.8 M	2164.8 M

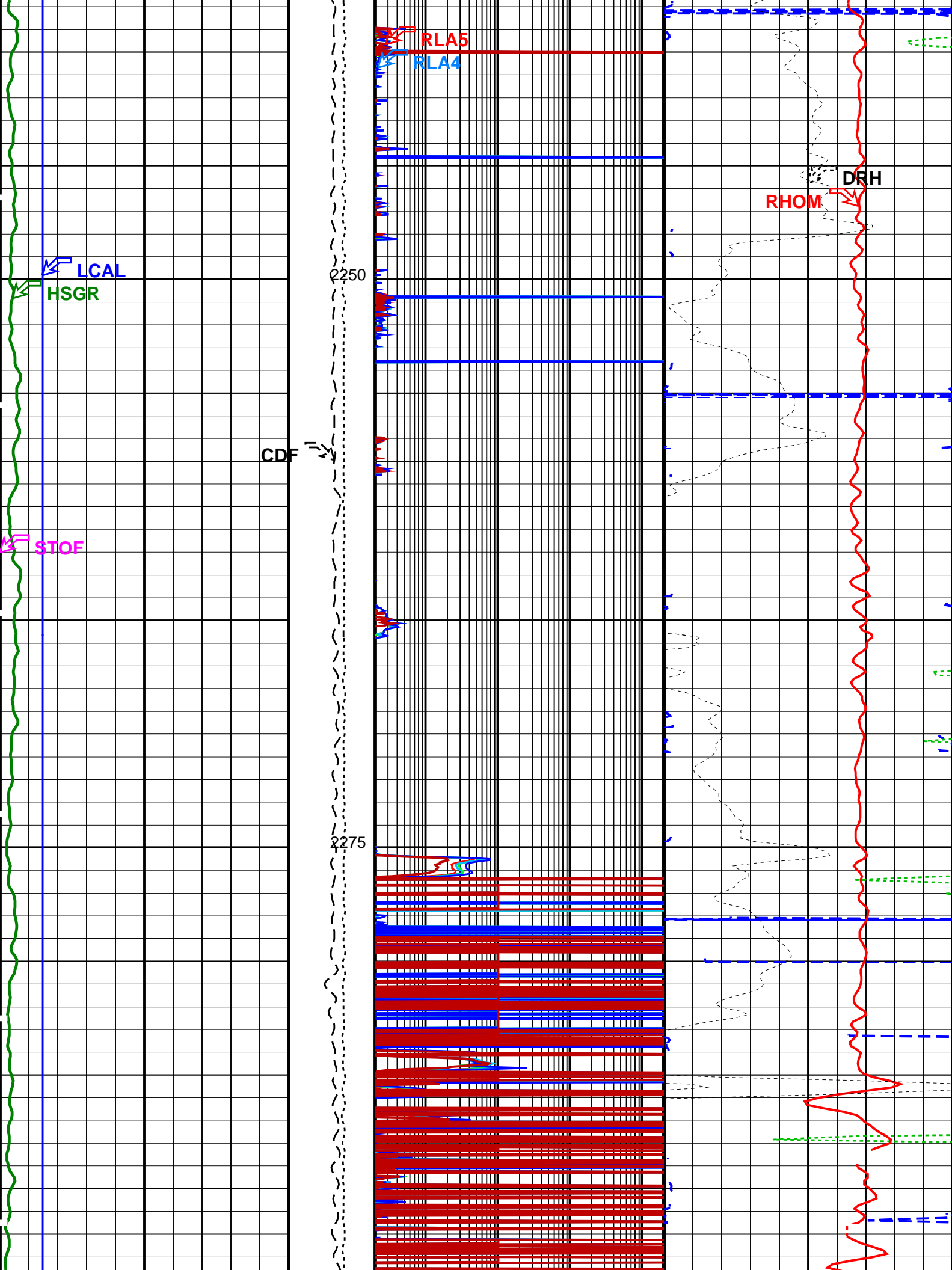
OP System Version: 19C0–187						
MSS_LDEO–A	19C0–187		HRLT–B	19C0–187		
HLDS	19C0–187		LDSC–B	19C0–187		
APS–C	19C0–187		HNGC–B	19C0–187		
HNGS–BA	19C0–187		DTC–H	19C0–187		

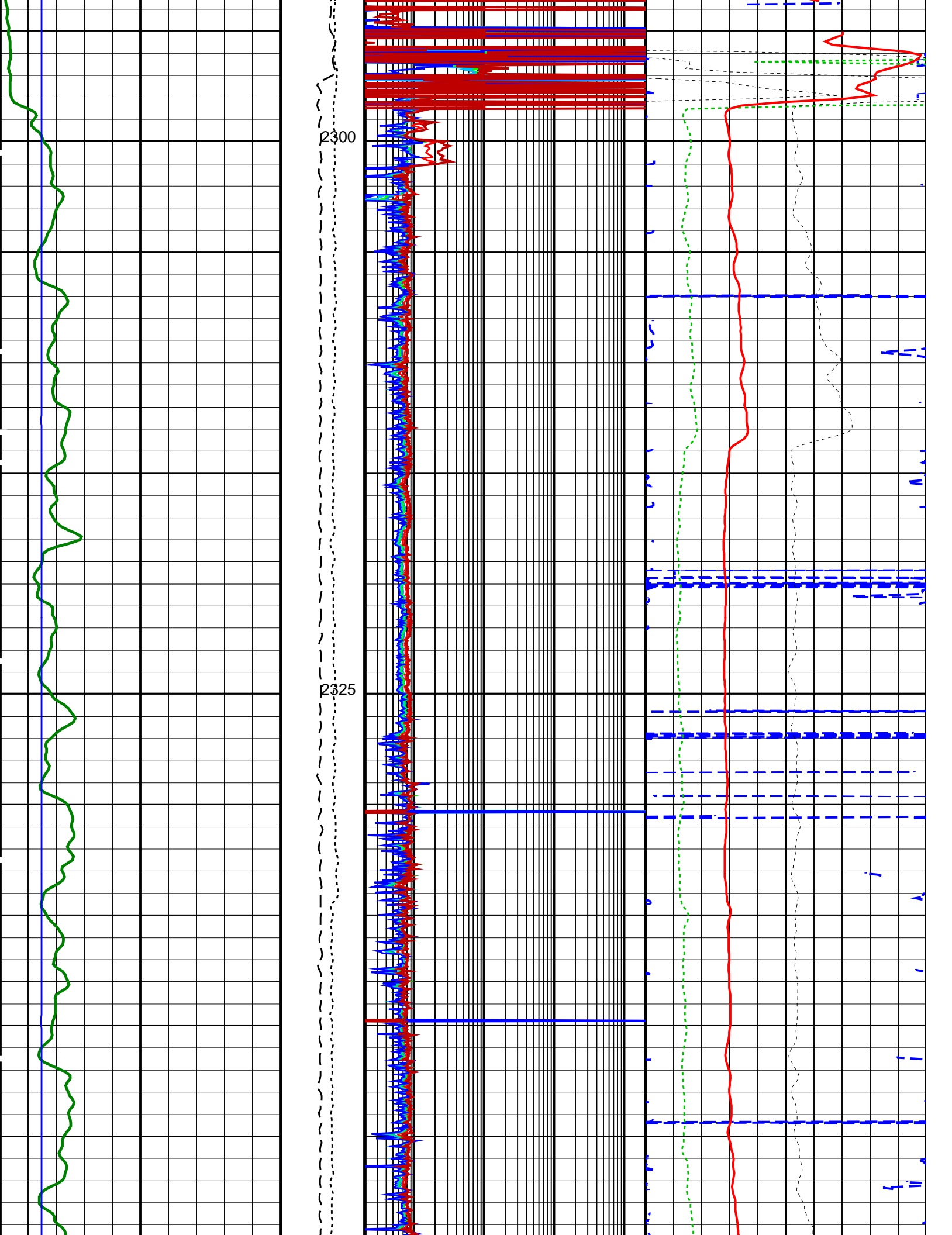
PIP SUMMARY						
Time Mark Every 60 S						

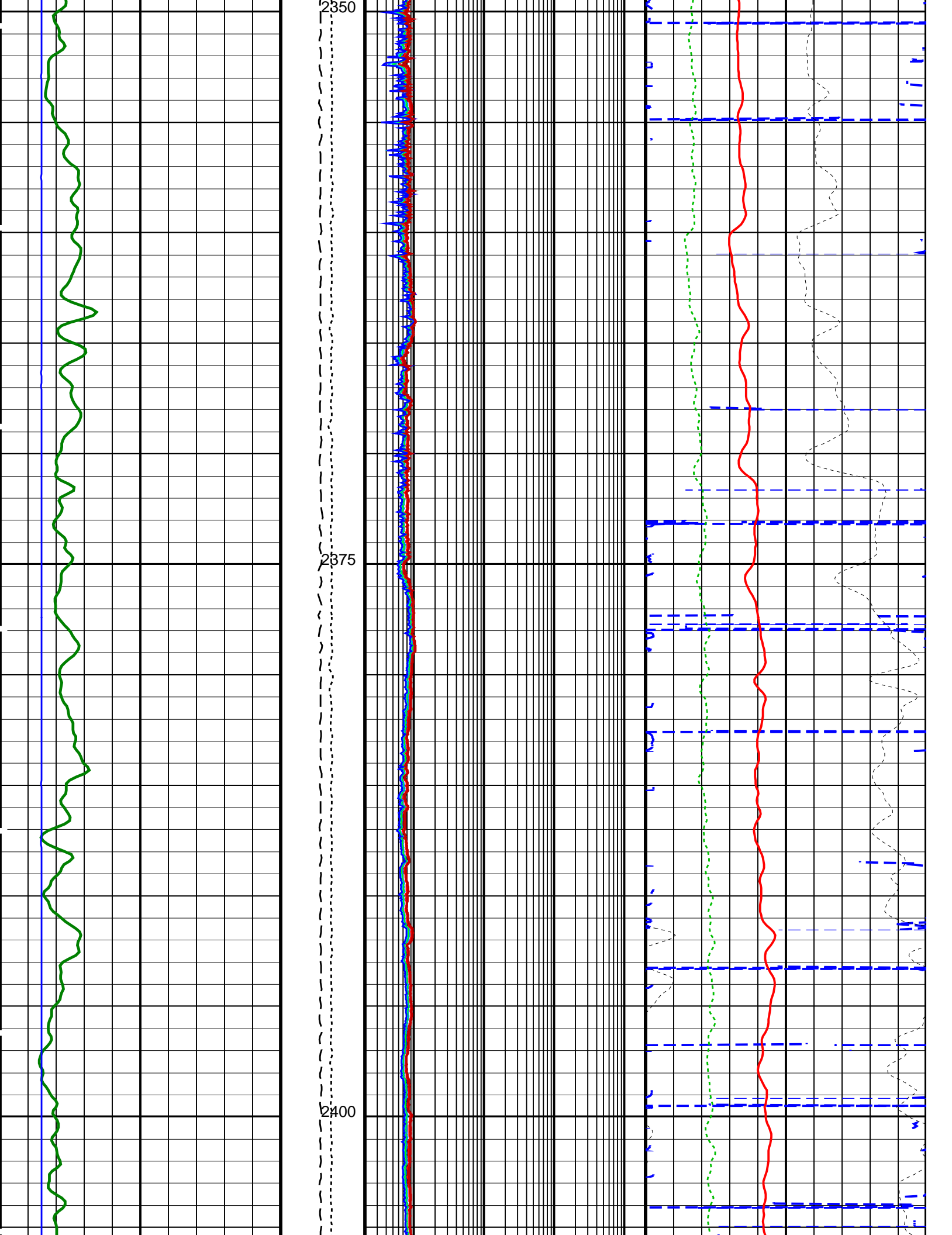
Downlog	HRLT True Resistivity (RT_HRLT)			
	0.2	(OHMM)	2000	
	HRLT Resistivity 1 (RLA1)			
	0.2	(OHMM)	2000	
HNGS Spectroscopy Gamma Ray (HSGR)	HRLT Resistivity 2 (RLA2)		HLDS Bulk Density Correction (DRH)	
	0.2	(OHMM)	2000	–0.25 (G/C3) 0.25
0 (GAPI) 100	HRLT Resistivity 3 (RLA3)		HLDS Bulk Density (RHOM)	
	0.2	(OHMM)	2000	0 (G/C3) 4
APS Effective Standoff in Limestone (STOF)	HRLT Resistivity 5 (RLA5)		HLDS Long Spaced Photoelectric Effect (PEFL)	
	0.2	(OHMM)	2000	0 (-----) 10
–5 (IN) 5	HRLT Resistivity 4 (RLA4)		APS HR Near/Far Corrected Limestone Porosity (HFLC)	
	0.2	(OHMM)	2000	100 (PU) 0
HLDS Caliper (LCAL)				
0 (IN) 20				

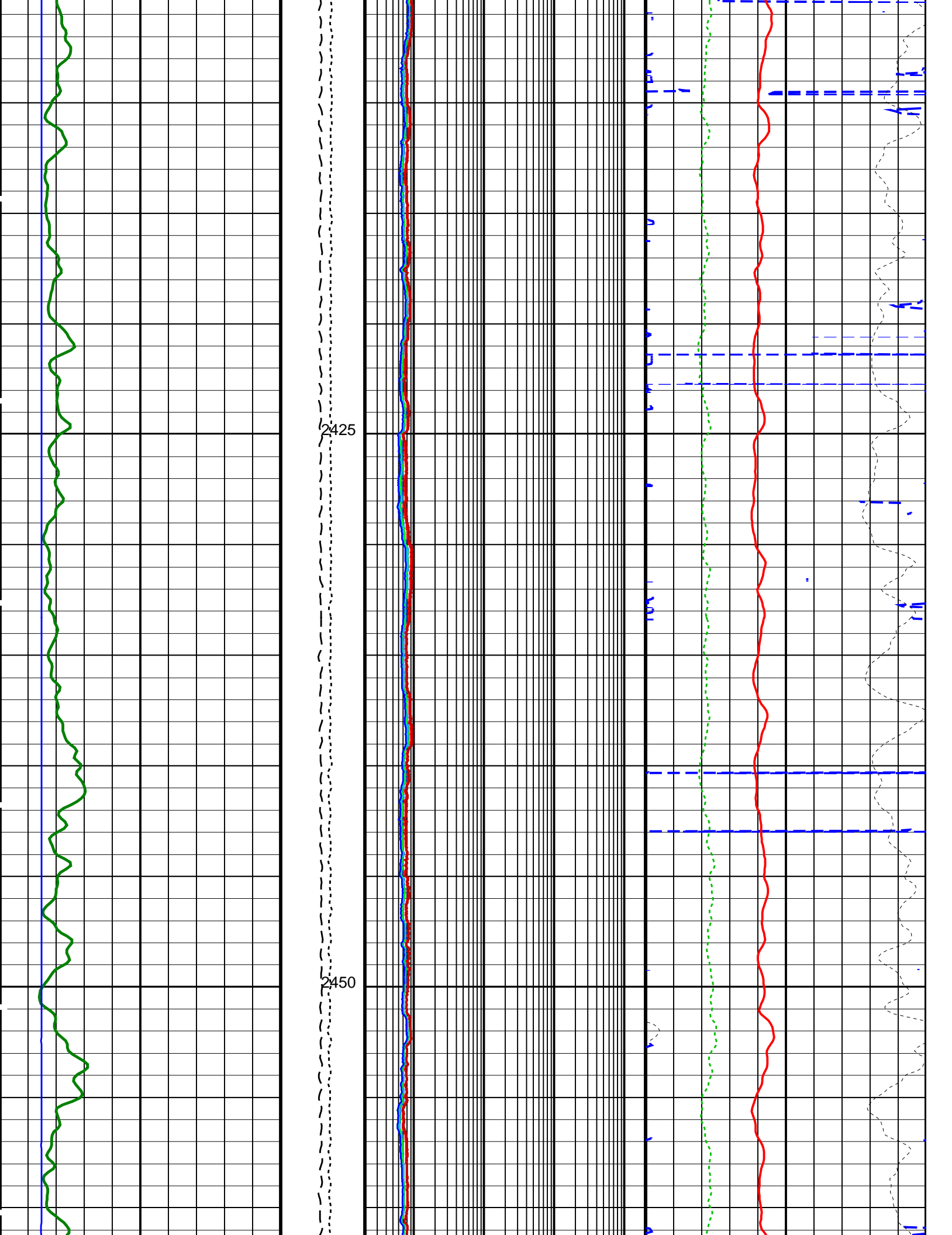


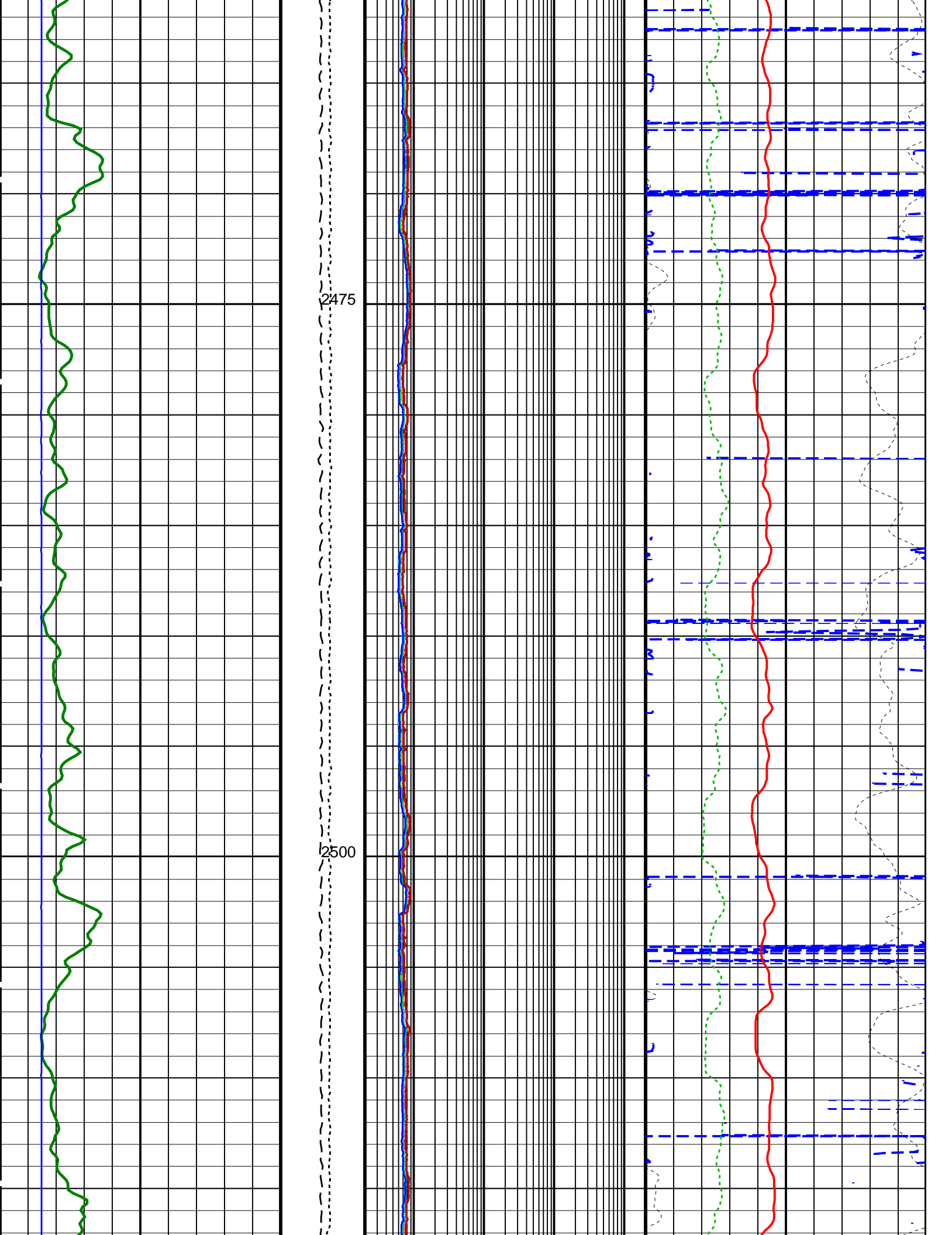


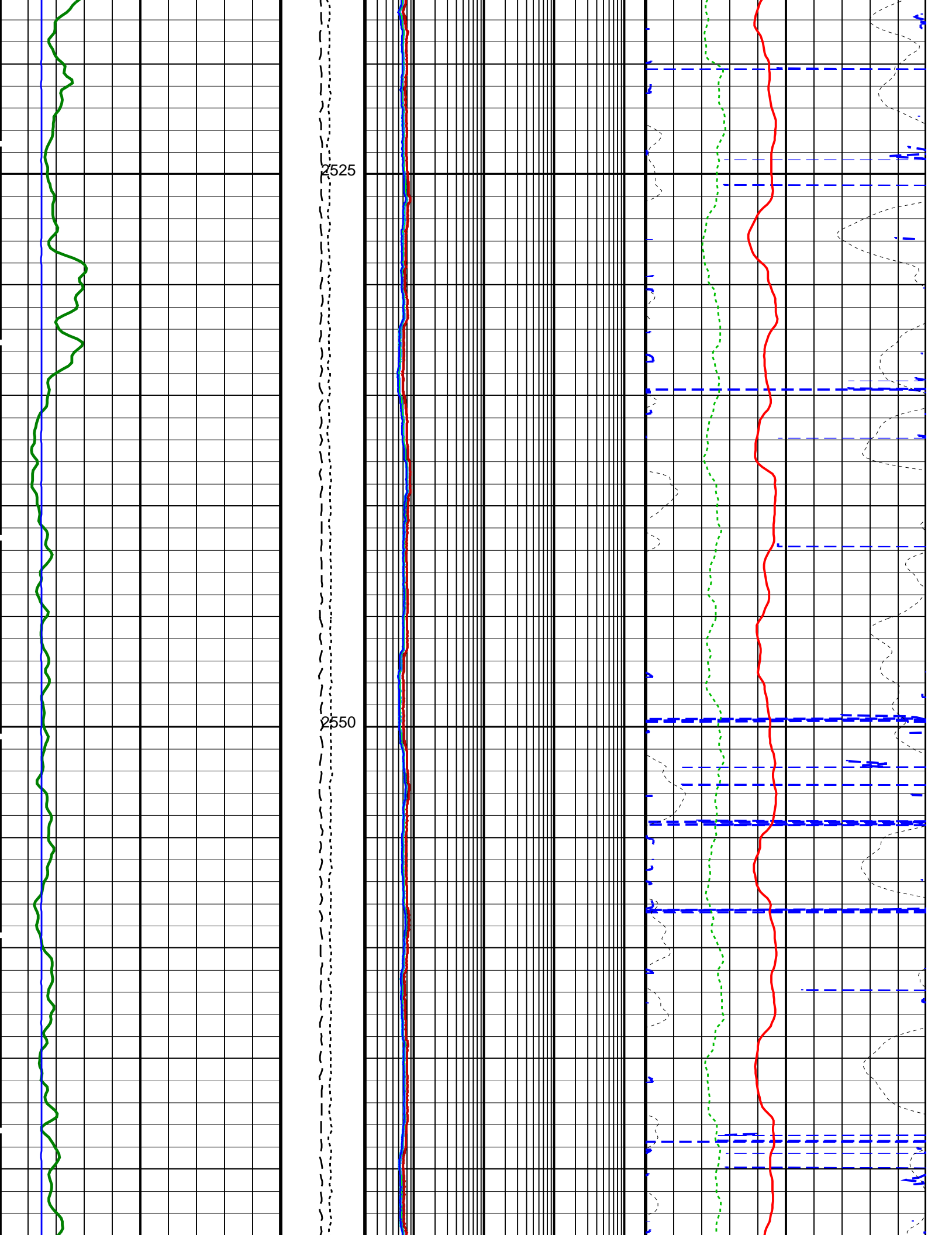


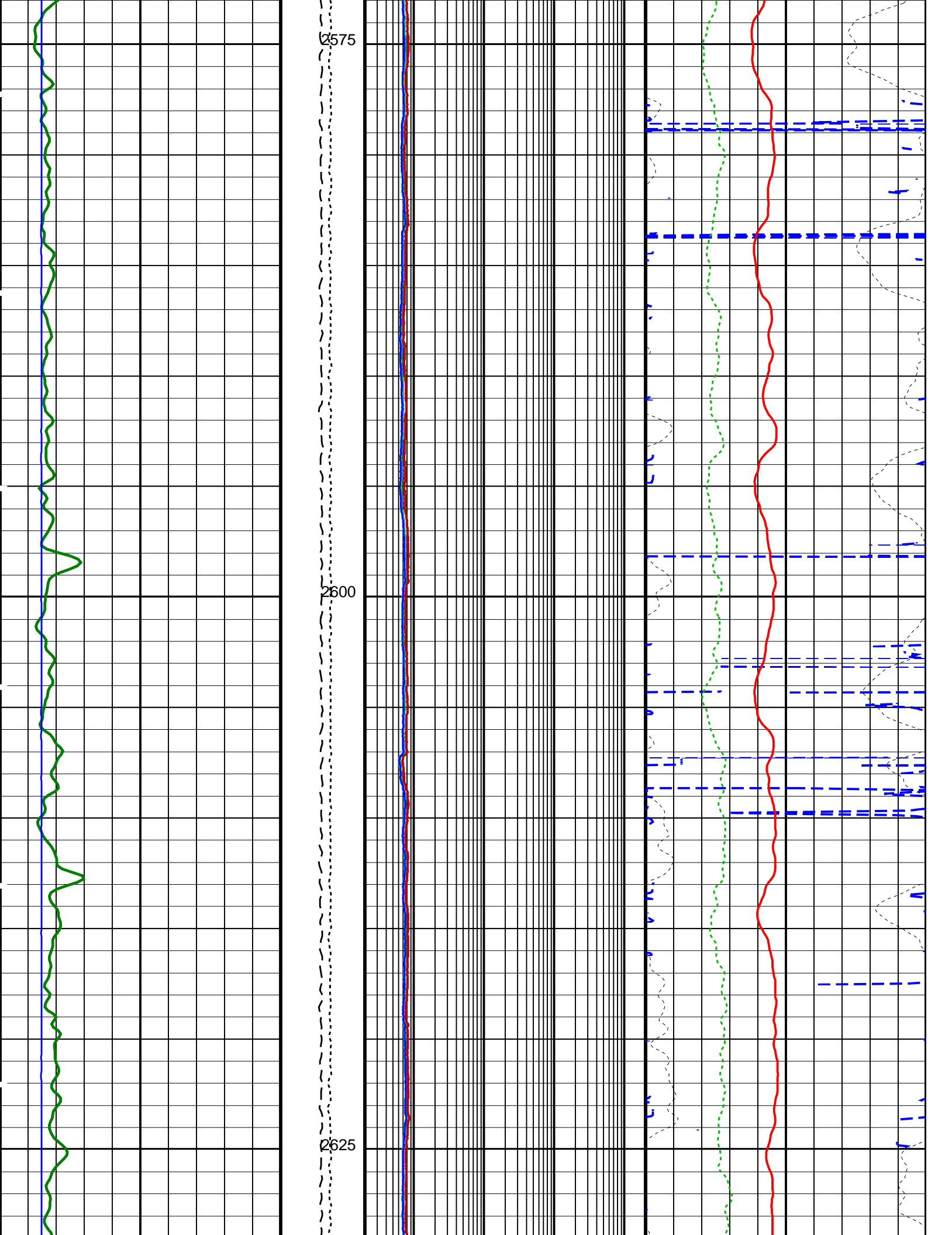


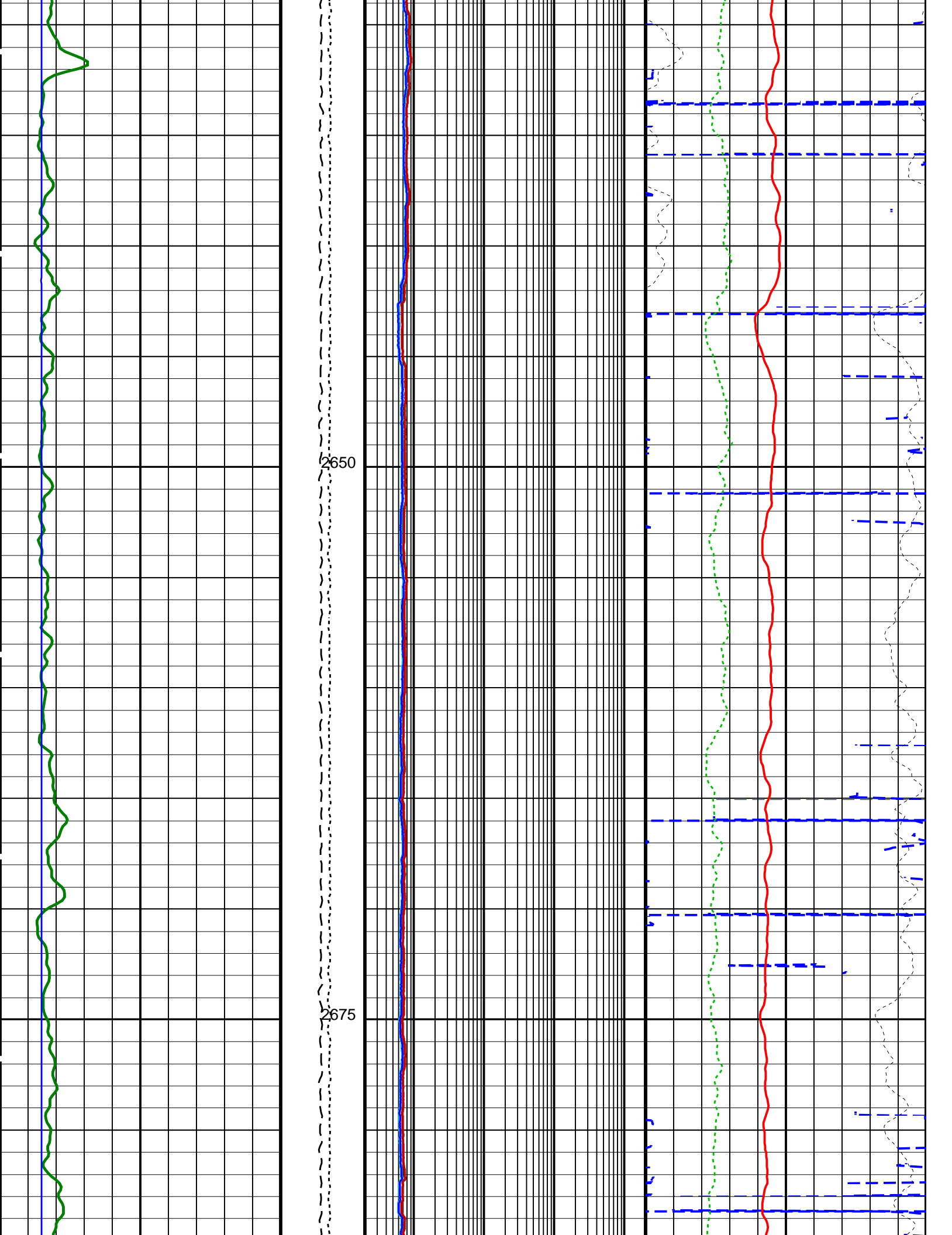


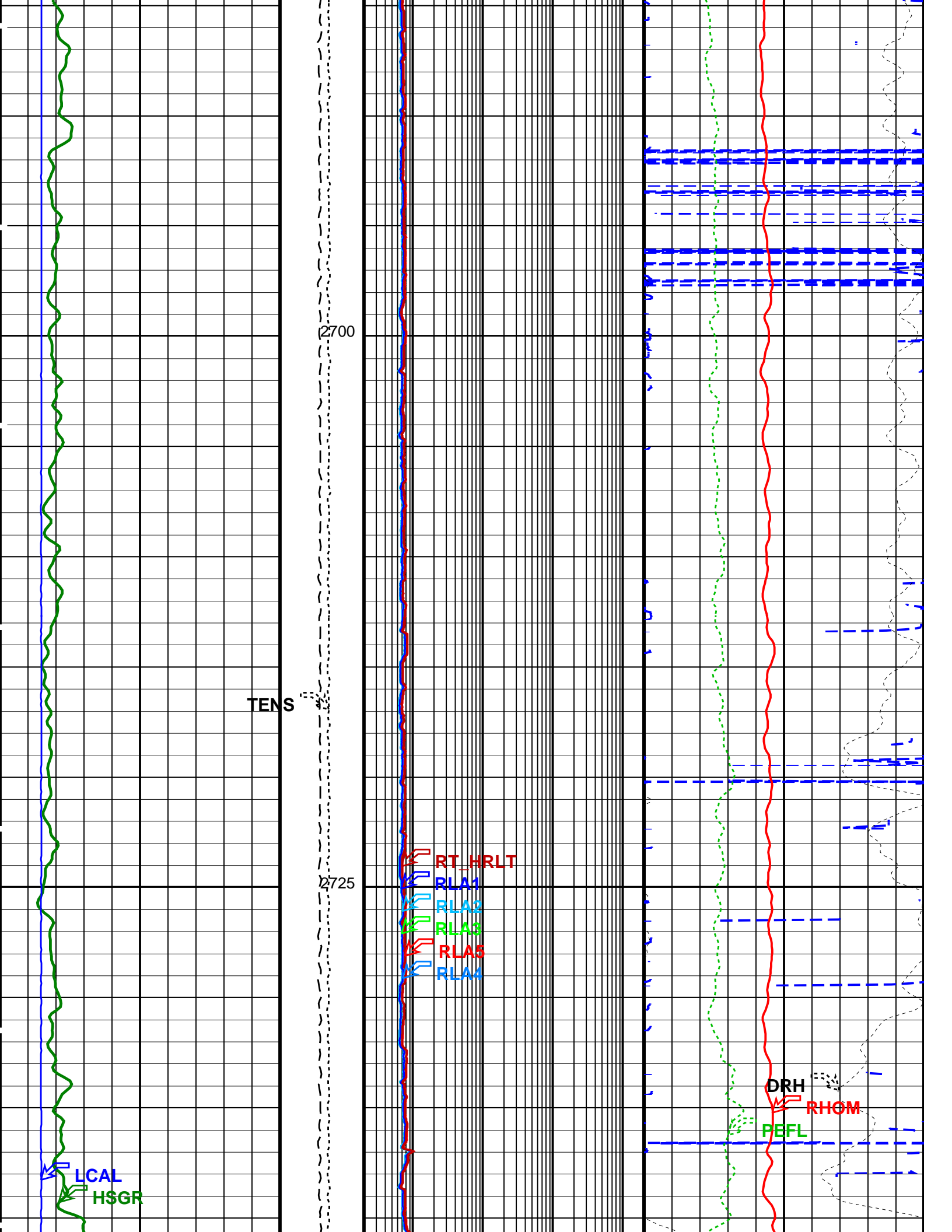


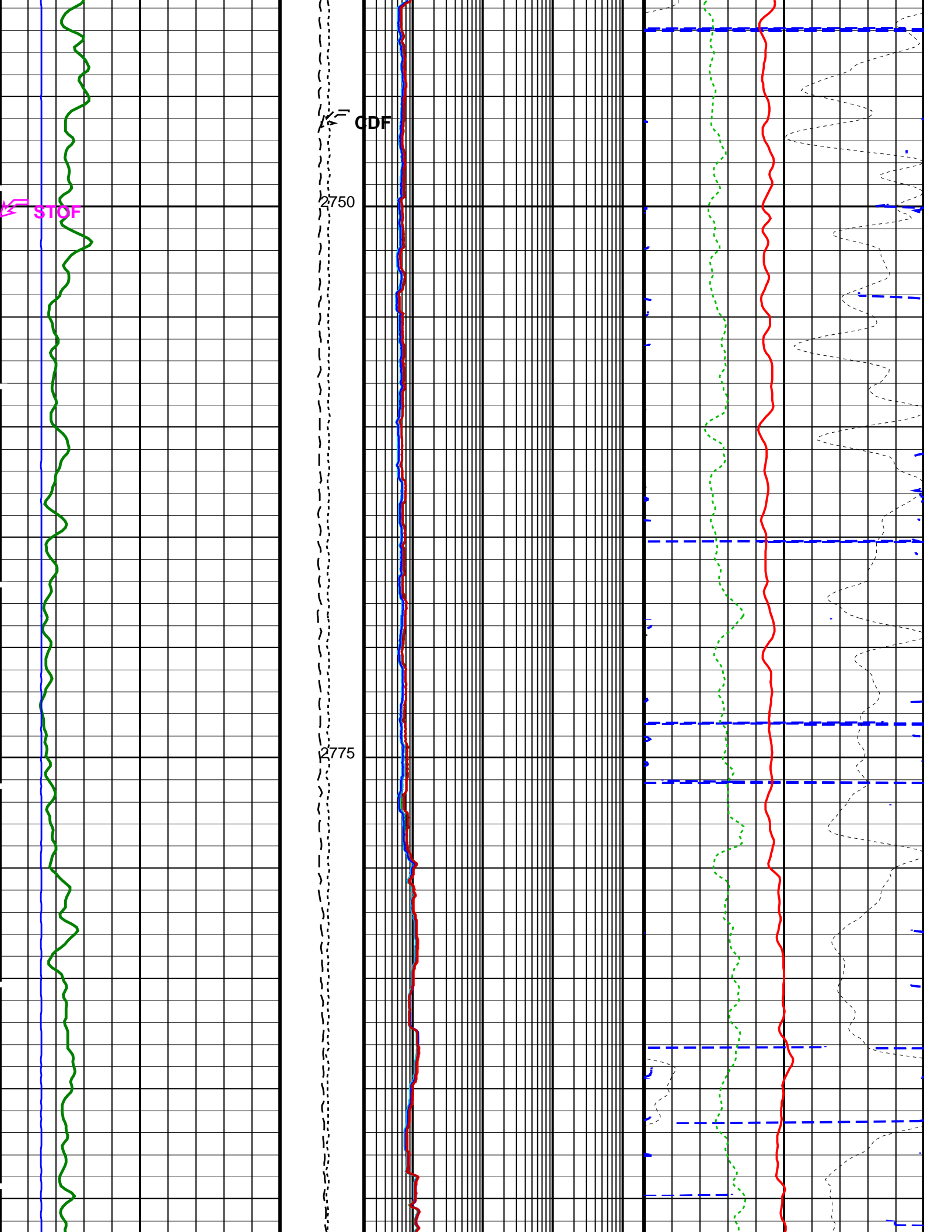


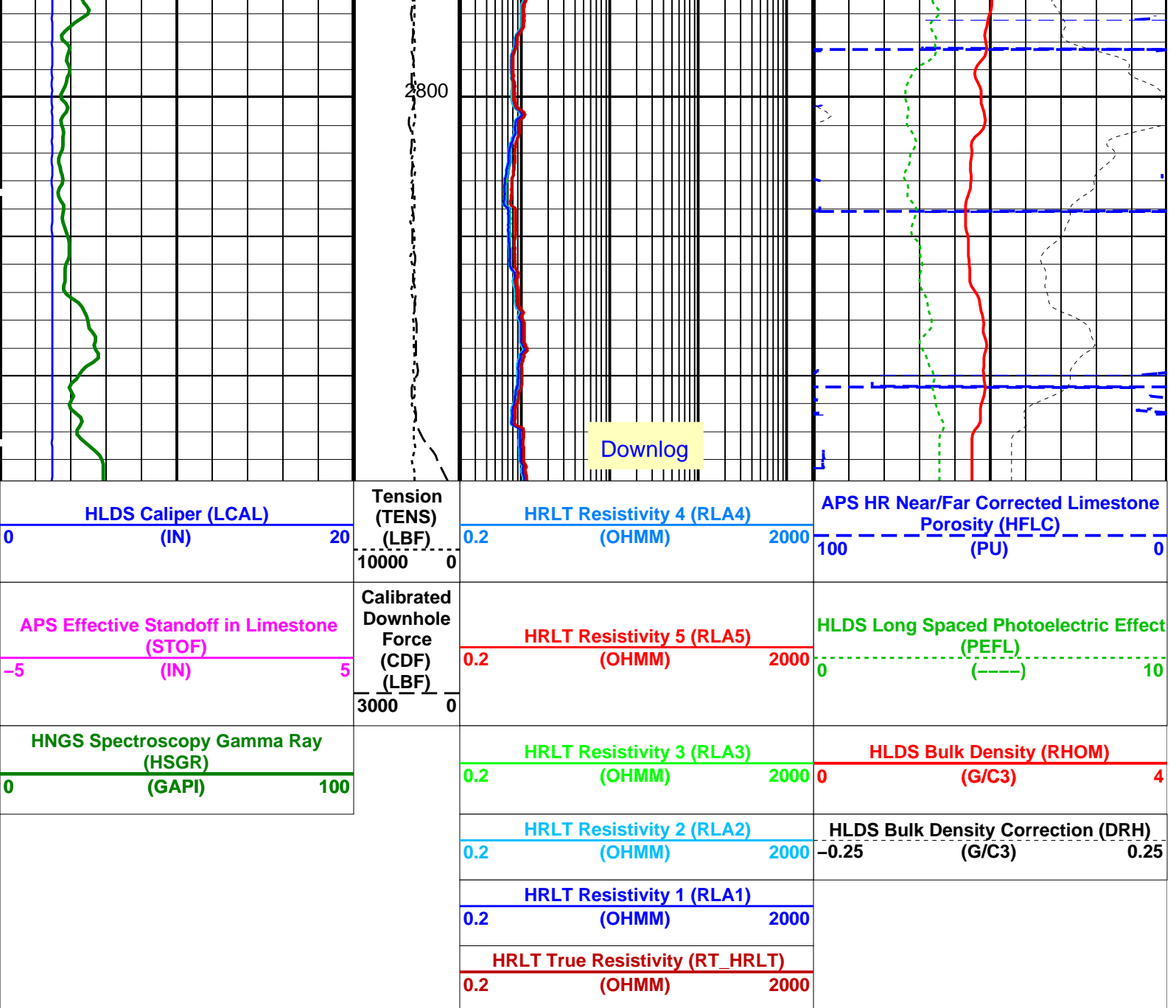












PIP SUMMARY

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)	7	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	8.73849	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	
PROCSP0	Sonde Position	Centered	
SHT	Surface Hole Temperature	20	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	2.6	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1500	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	
APS-C: Accelerator-Porosity Tool			
AASD	APS Software Version	5	
ADSO	APS Thermal and Array Detectors High Voltage Setting	1976.24	V
AFSD	APS Array Detectors Data Source Switch	Both	
AHCS	APS Far Detector High Voltage Setting	2067.55	V
AHSS	APS Holesize Correction Source	GCSE	
AMTY	APS Holesize Correction Switch	ON	
ANSD	APS Environmental Corrections Mud Type	WaterBaseBarite	
ASOS	APS Near Detector High Voltage Setting	1737.8	V
ATSS	APS Standoff Correction Switch	ON	
BHFL_APS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHS	APS TNPH Borehole Fluid Type	WATER	
BHT	Borehole Status	OPEN	
BSCO_APS	Bottom Hole Temperature (used in calculations)	7	DEGC
DPPM	APS TNPH Borehole Salinity Correction Option	NO	
DSCO_APS	Density Porosity Processing Mode	HIRS	
FSAL	APS TNPH Density Source Correction Option	MEASURED	
FSCO_APS	Formation Salinity	-50000	PPM
GCSE	APS TNPH Formation Salinity Correction Option	NO	
GDEV	Generalized Caliper Selection	BS	
GGRD	Average Angular Deviation of Borehole from Normal	0	DEG
GRSE	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
HSCO_APS	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	APS TNPH Hole Size Correction Option	YES	
MATR	Barite Mud Switch	NOBARITE	
MCCO_APS	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCOR_APS	APS TNPH Mud Cake Correction Option	NO	
MWCO_APS	APS TNPH Mud Correction	NATU	
NARC	APS TNPH Mud Weight Correction Option	YES	
NFRC	APS Near/Array Calibration Ratio	1.08341	
PTCO_APS	APS Near/Far Calibration Ratio	0.942369	
SHT	APS TNPH Pressure/Temperature Correction Option	NO	
TNCO_APS	Surface Hole Temperature	20	DEGC
	APS TNPH Computation Option	YES	
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)	7	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	
H1B	HNGS Detector 1 Allow/Discallow In Processing	ALLOW	

H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	0.00230596	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.952401	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	2.78357	
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	38000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	23.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	9345.14	FT
TDD	Total Depth - Driller	2848.40	M
TDL	Total Depth - Logger	2848.40	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: TripleCombo Vertical Scale: 1:200 Graphics File Created: 04-Aug-2021 08:44

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	DTC-H	19C0-187

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_013LUP	PRODUCER	04-Aug-2021 08:27	2813.8 M	2164.8 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016PUP	FN:22	PRODUCER	04-Aug-2021 08:44
BACKUP	MSS_LDEO_HRLA_LDL_016PUP	FN:23	PRODUCER	04-Aug-2021 08:44

Company: International Ocean Discovery Program Well: Expedition 395C, Site U1564C

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_012LUP	FN:16	PRODUCER	04-Aug-2021 06:19	2850.6 M	2192.3 M
BACKUP	MSS_LDEO_HRLA_LDL_012LUP	FN:17	PRODUCER	04-Aug-2021 06:19	2850.6 M	2192.3 M

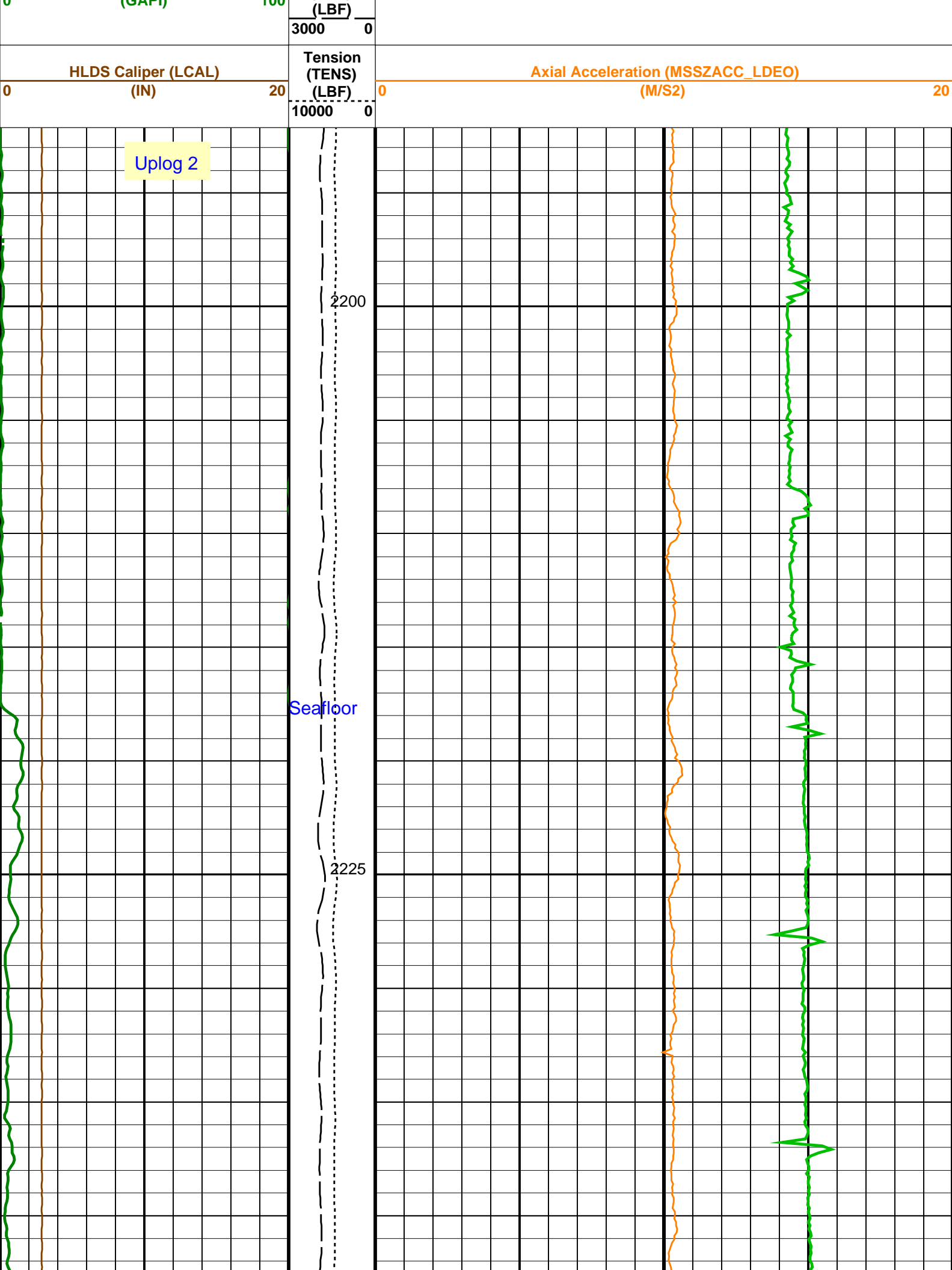
OP System Version: 19C0-187

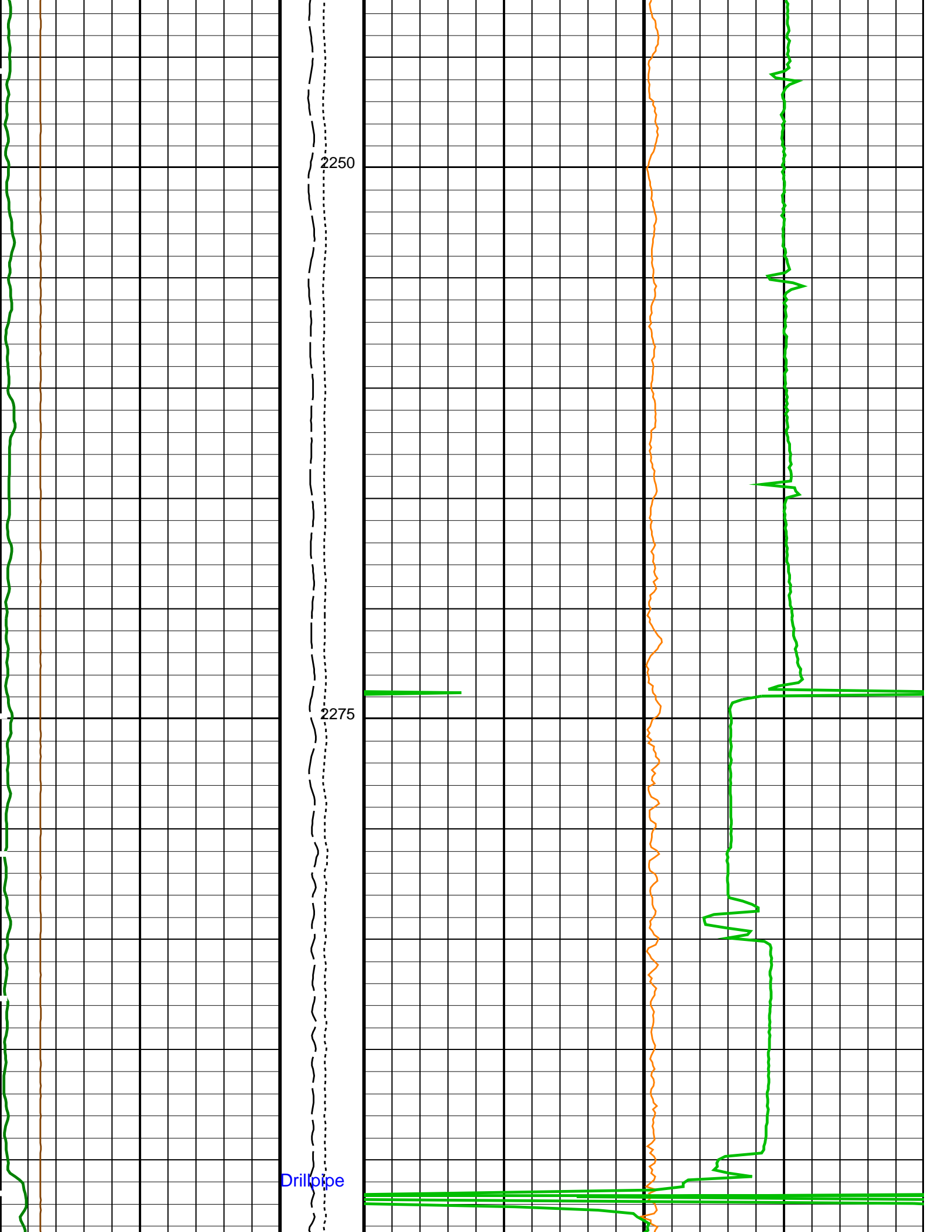
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

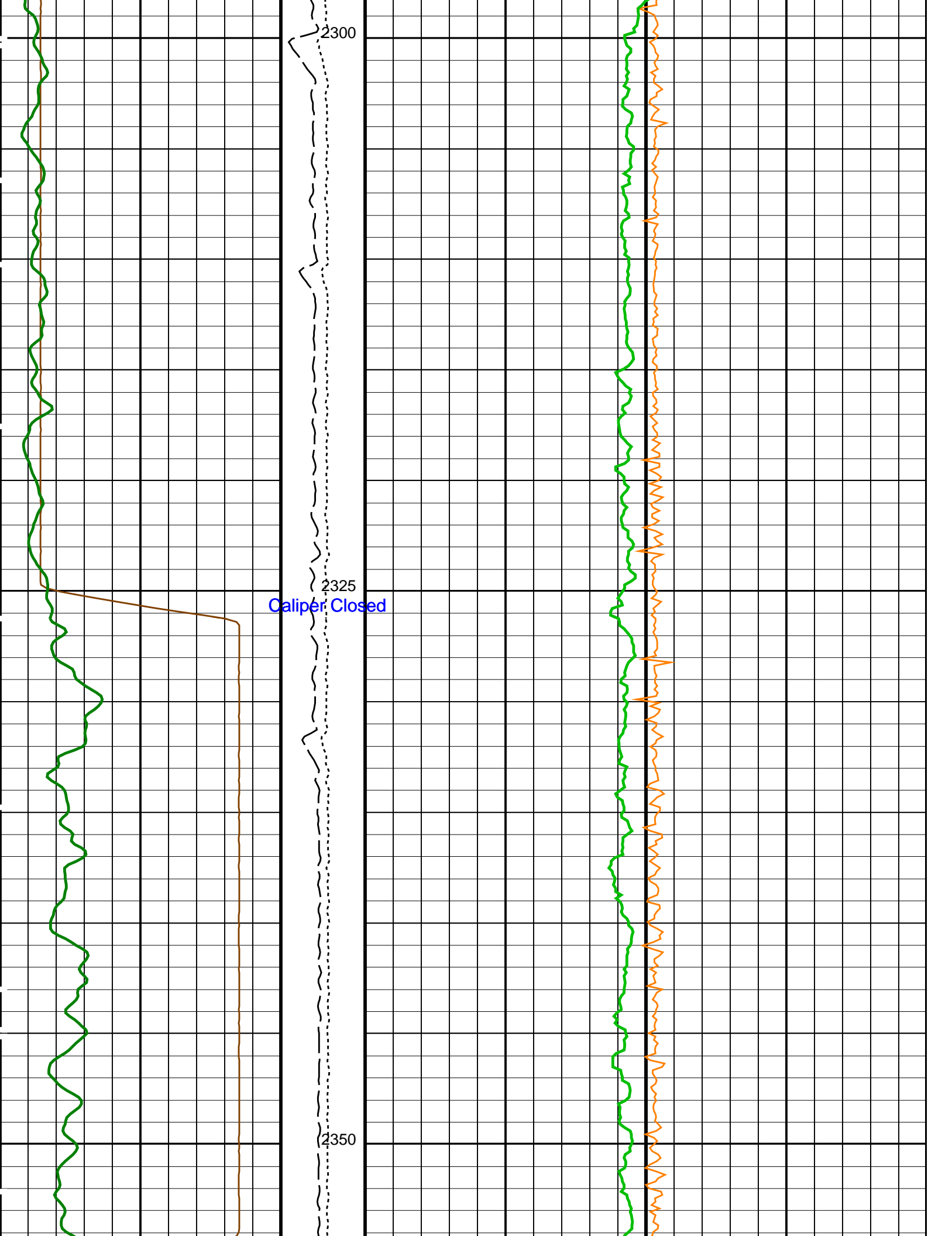
PIP SUMMARY

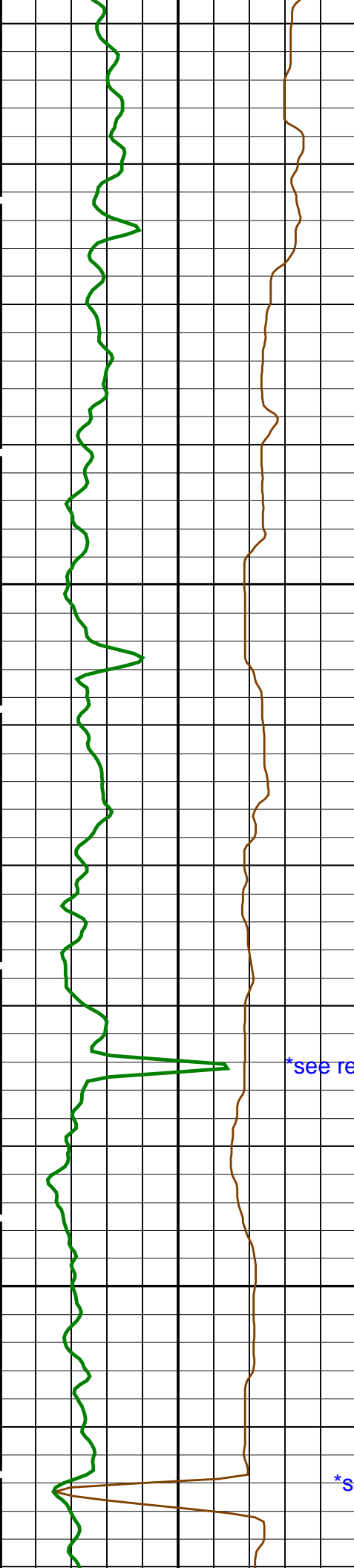
 Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		Calibrated Downhole Force (CDF)	Dual-Coil Susceptibility (MSSL SUS_LDEO)	
(GAPI)	100		(PPM)	10000
0			-10000	





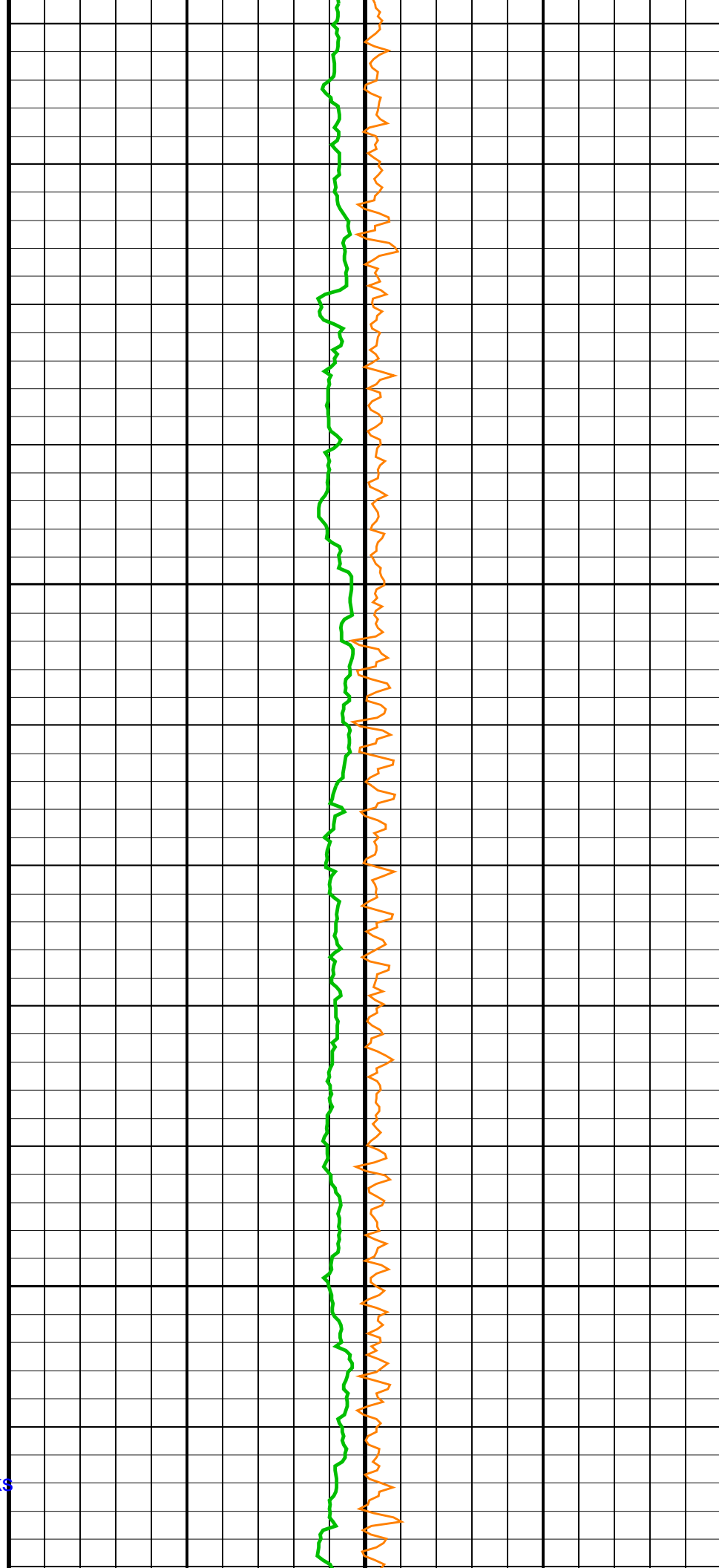


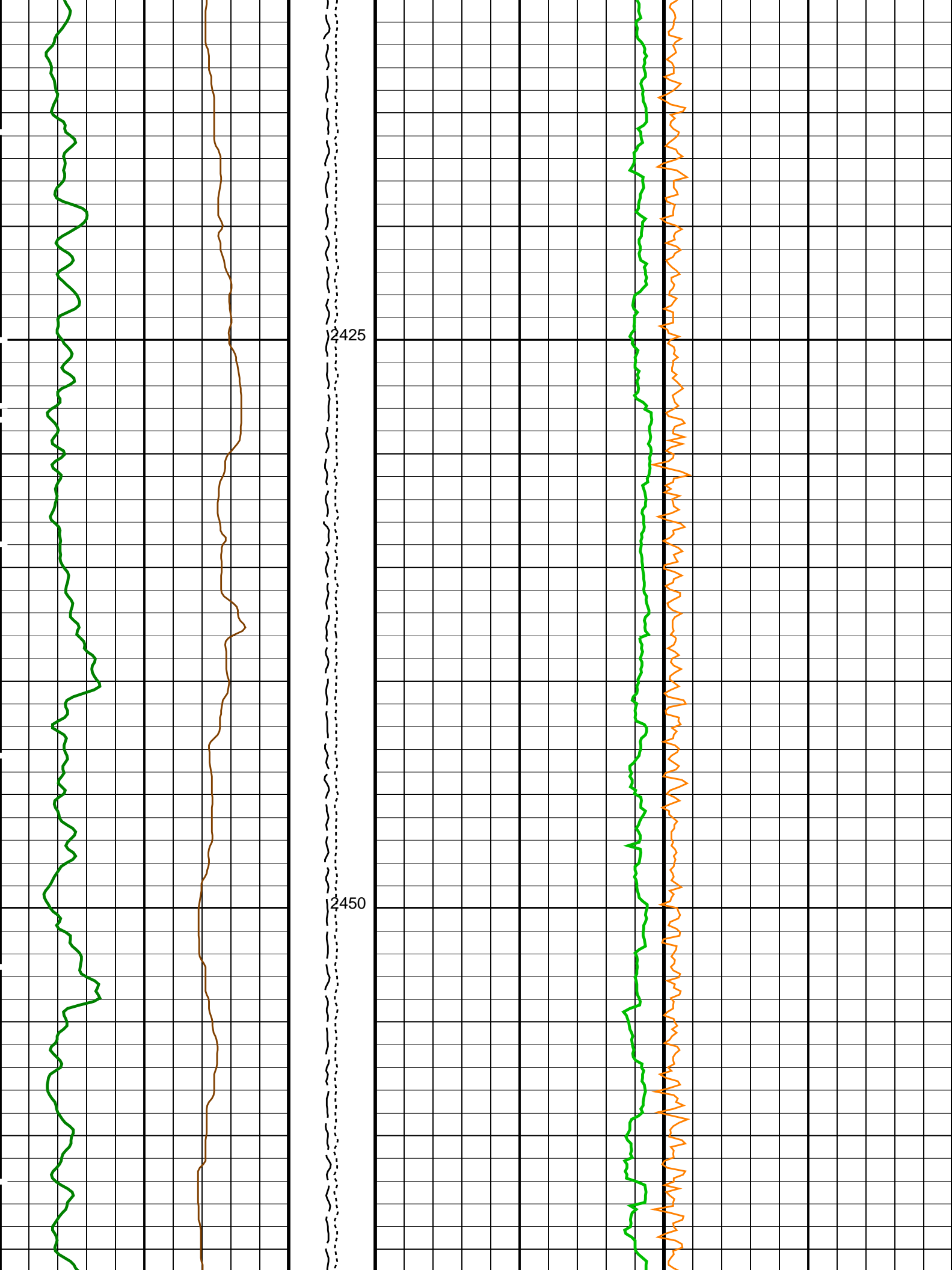


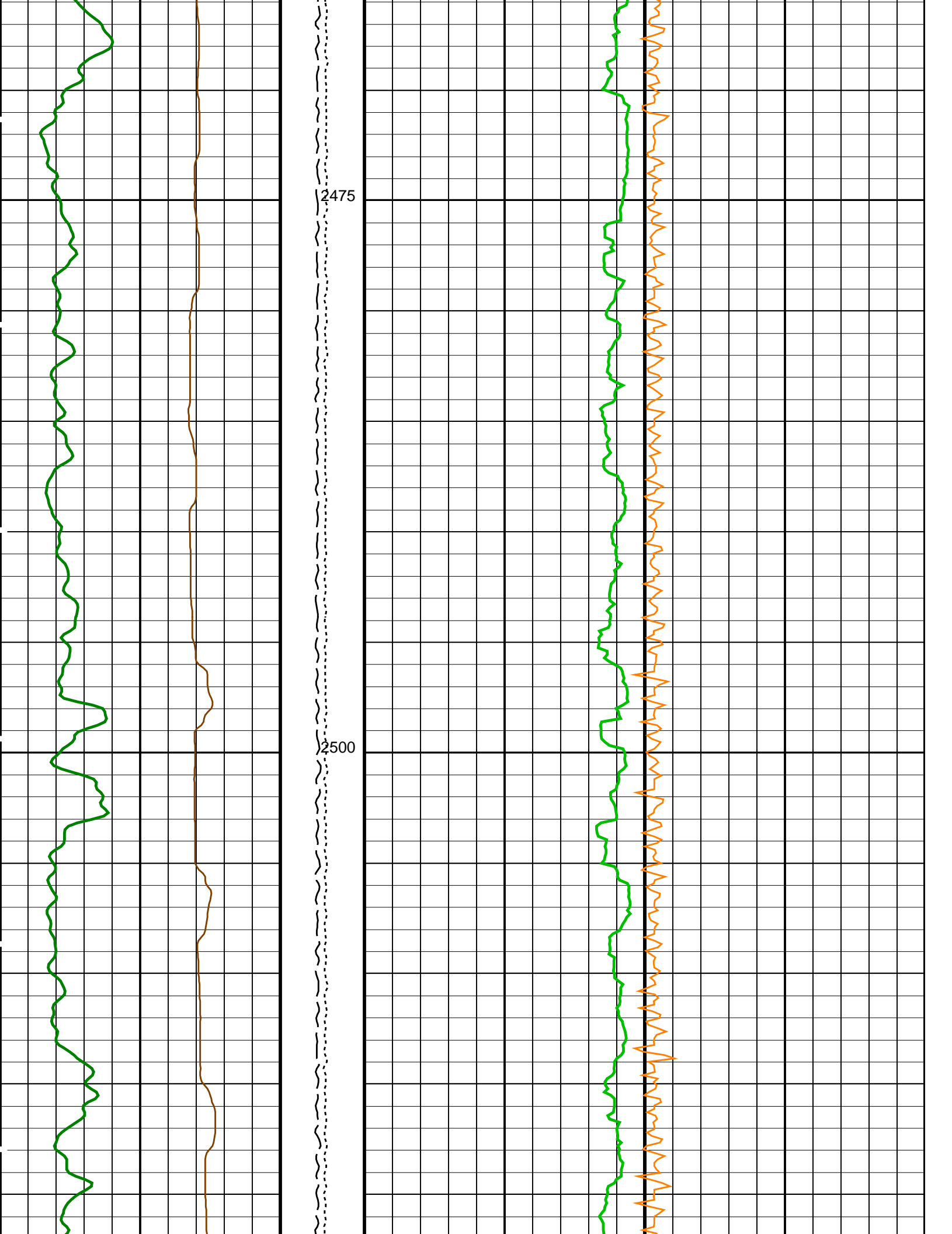
*see remarks

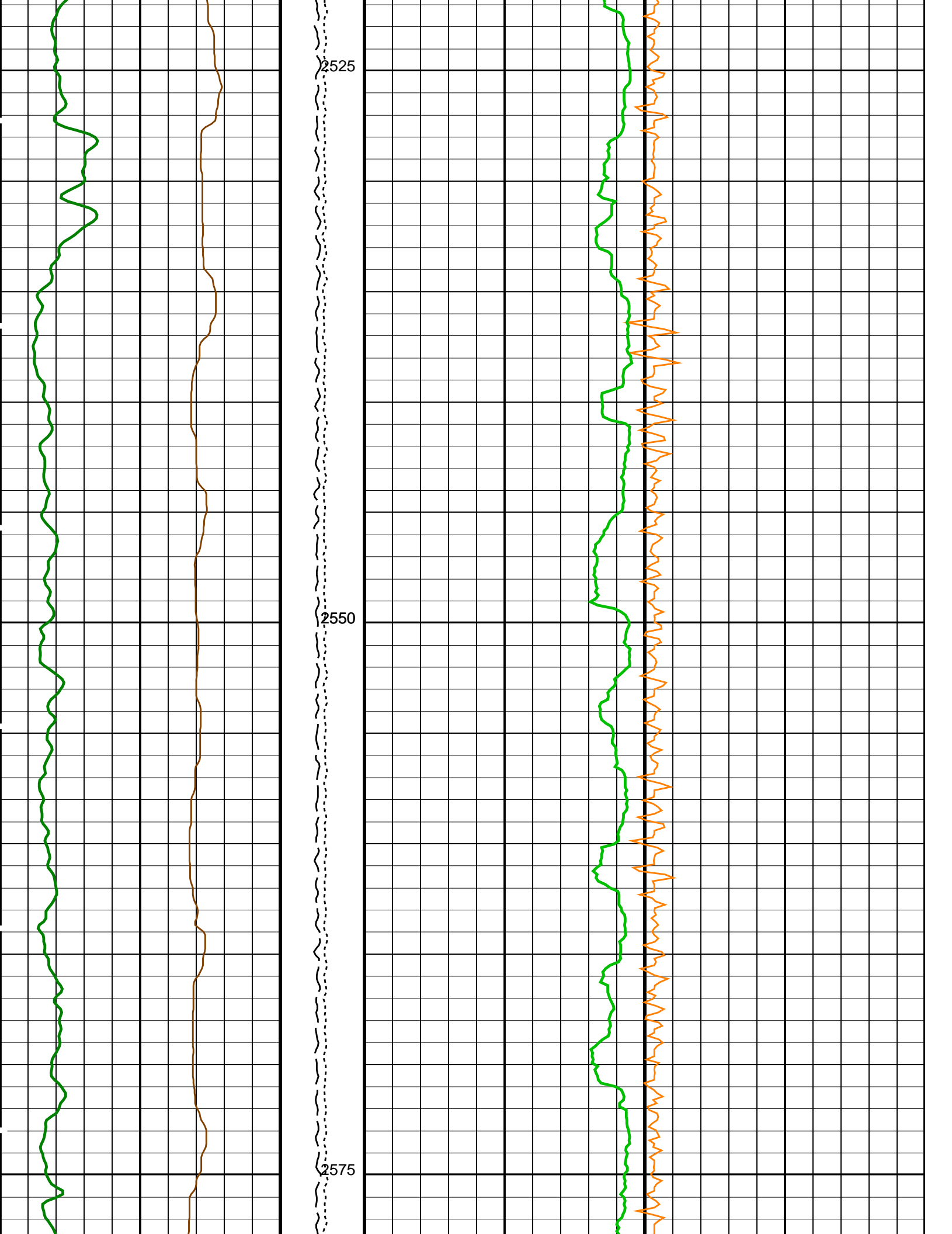
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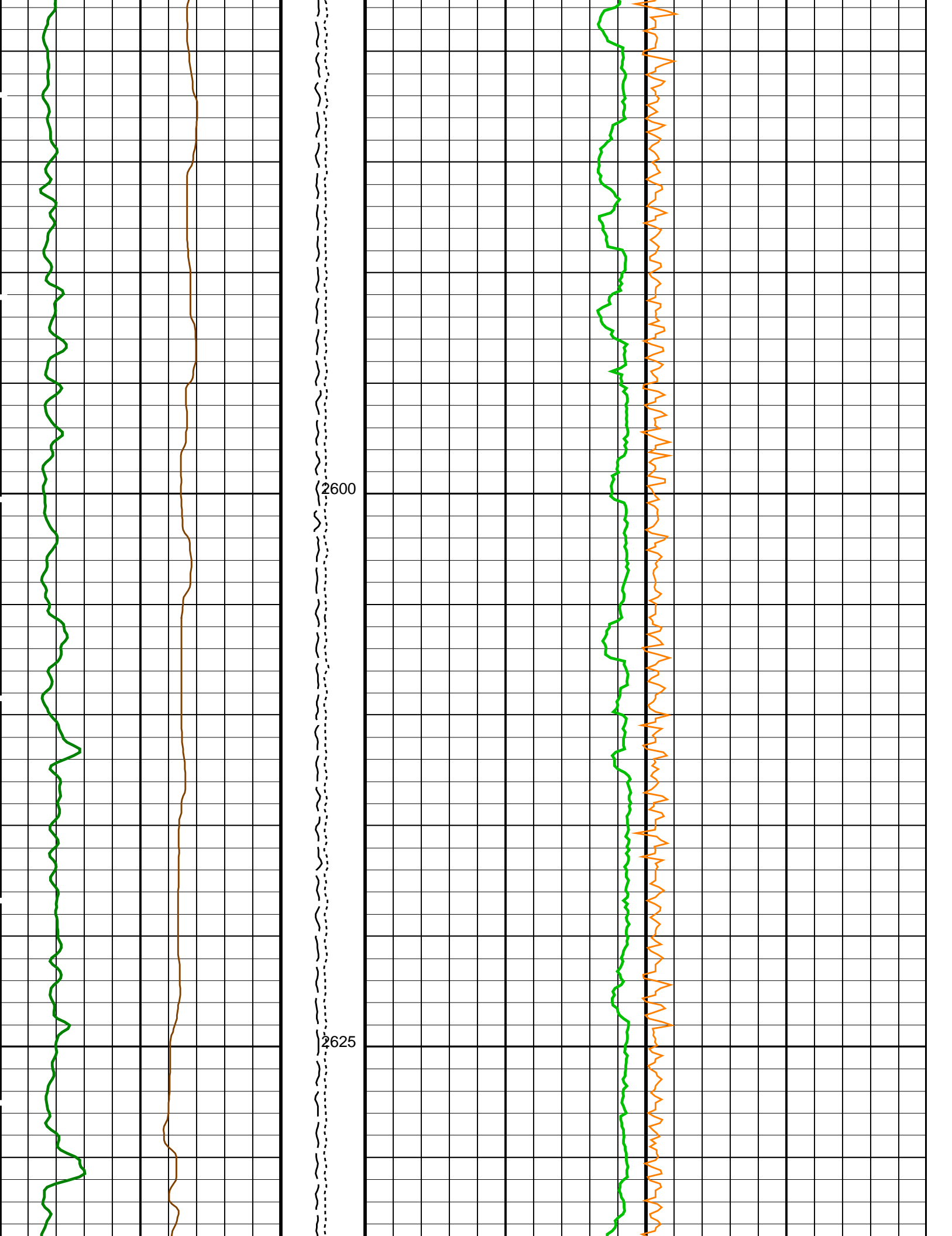
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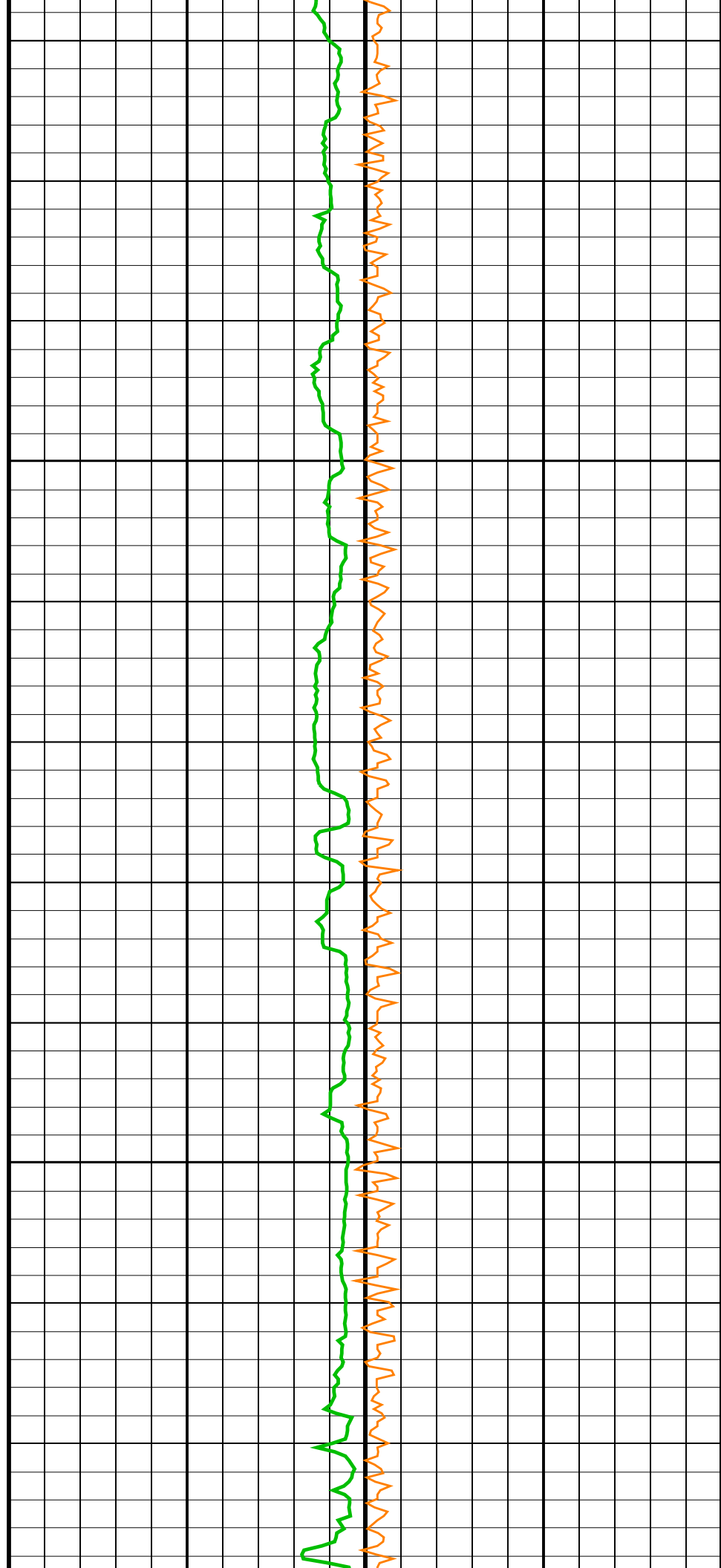
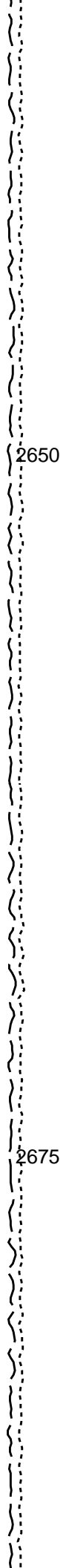
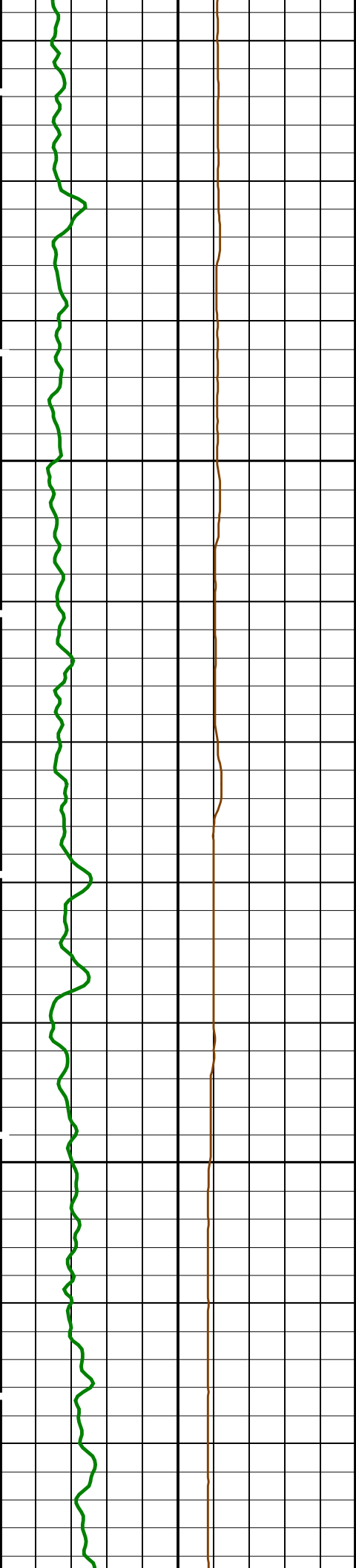


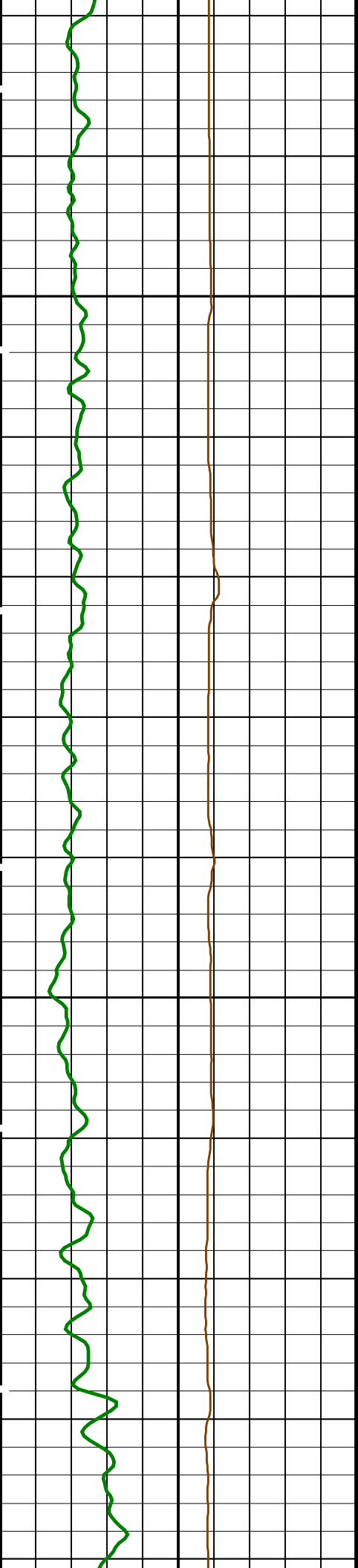






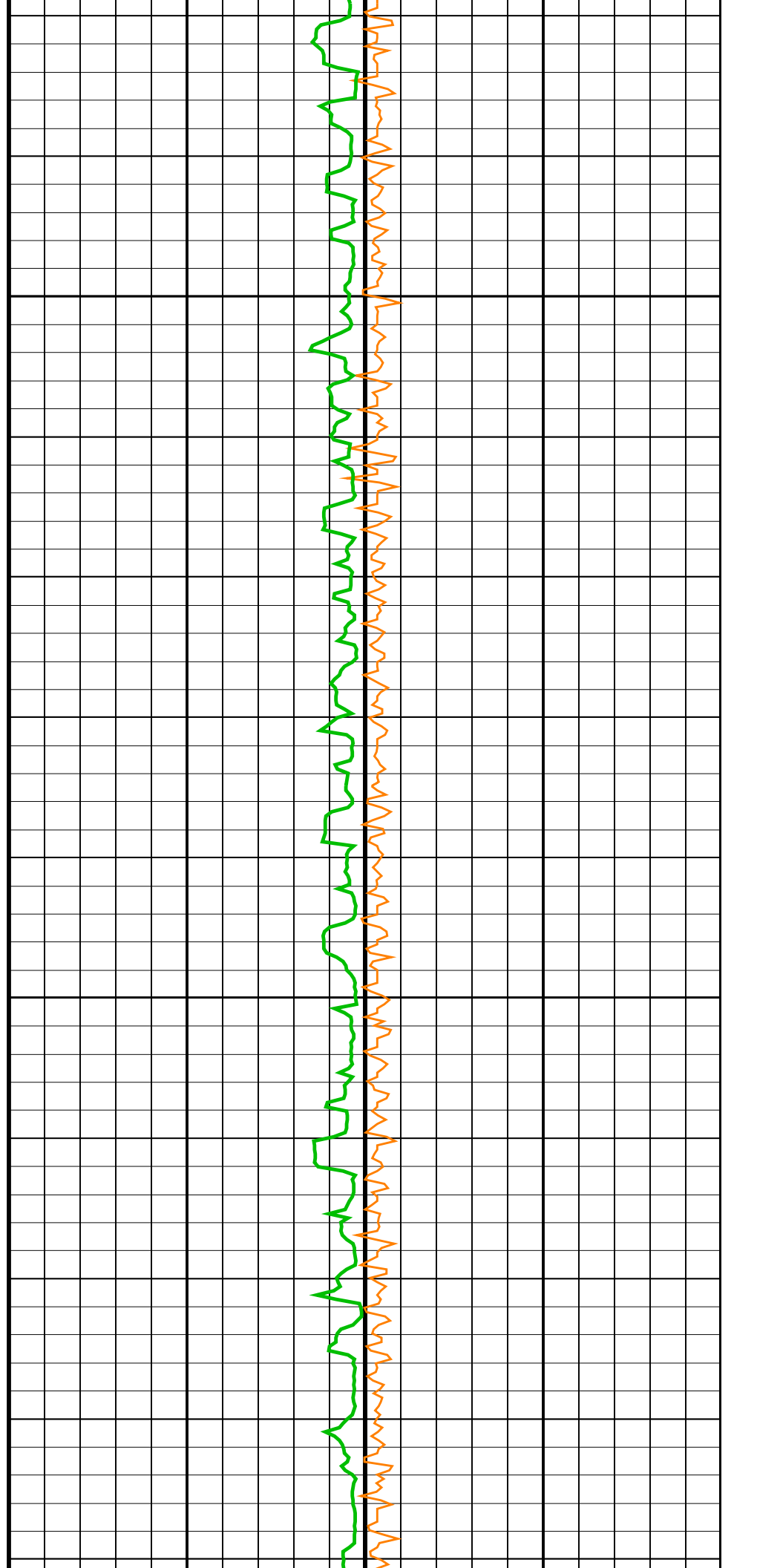


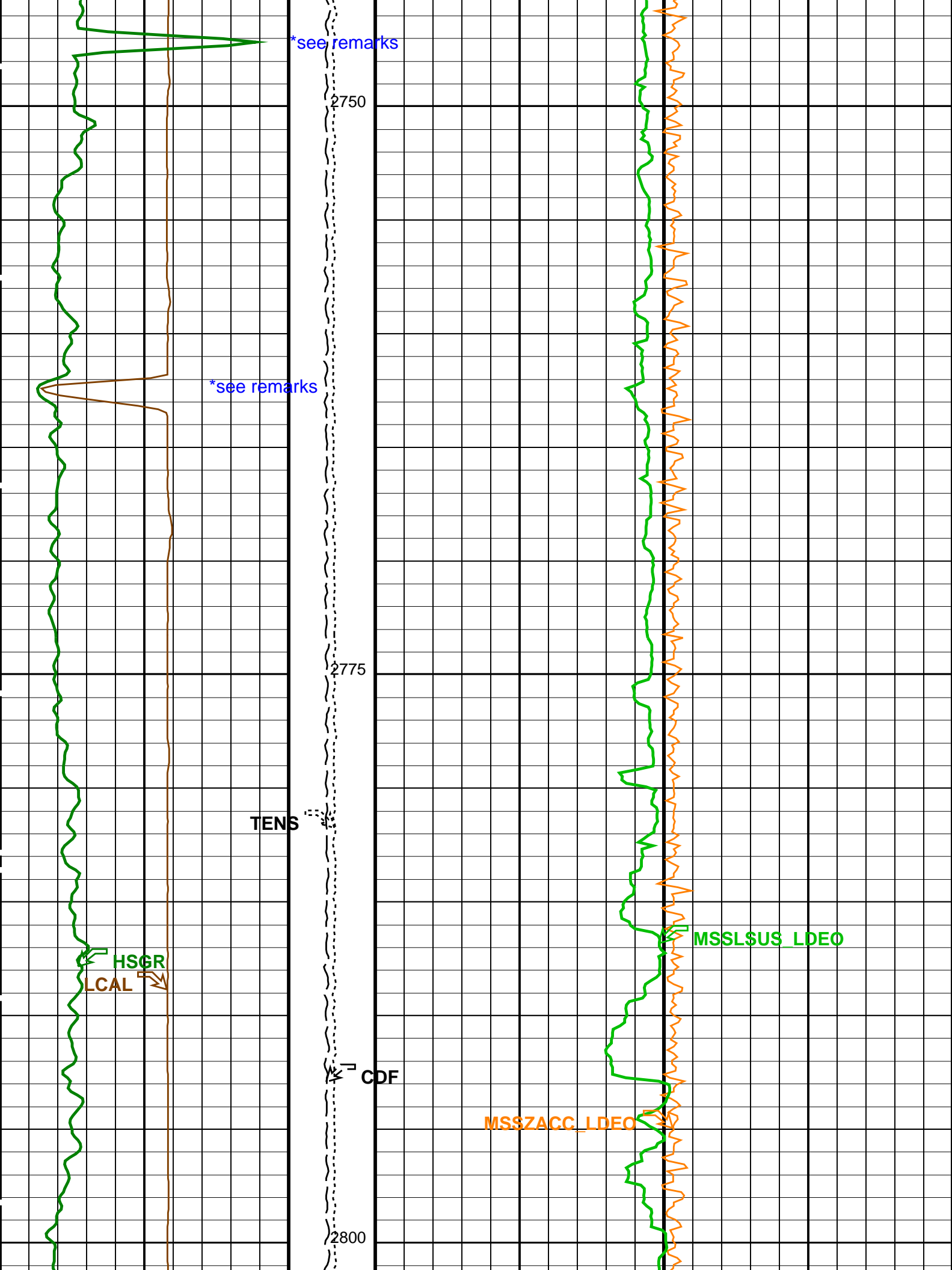


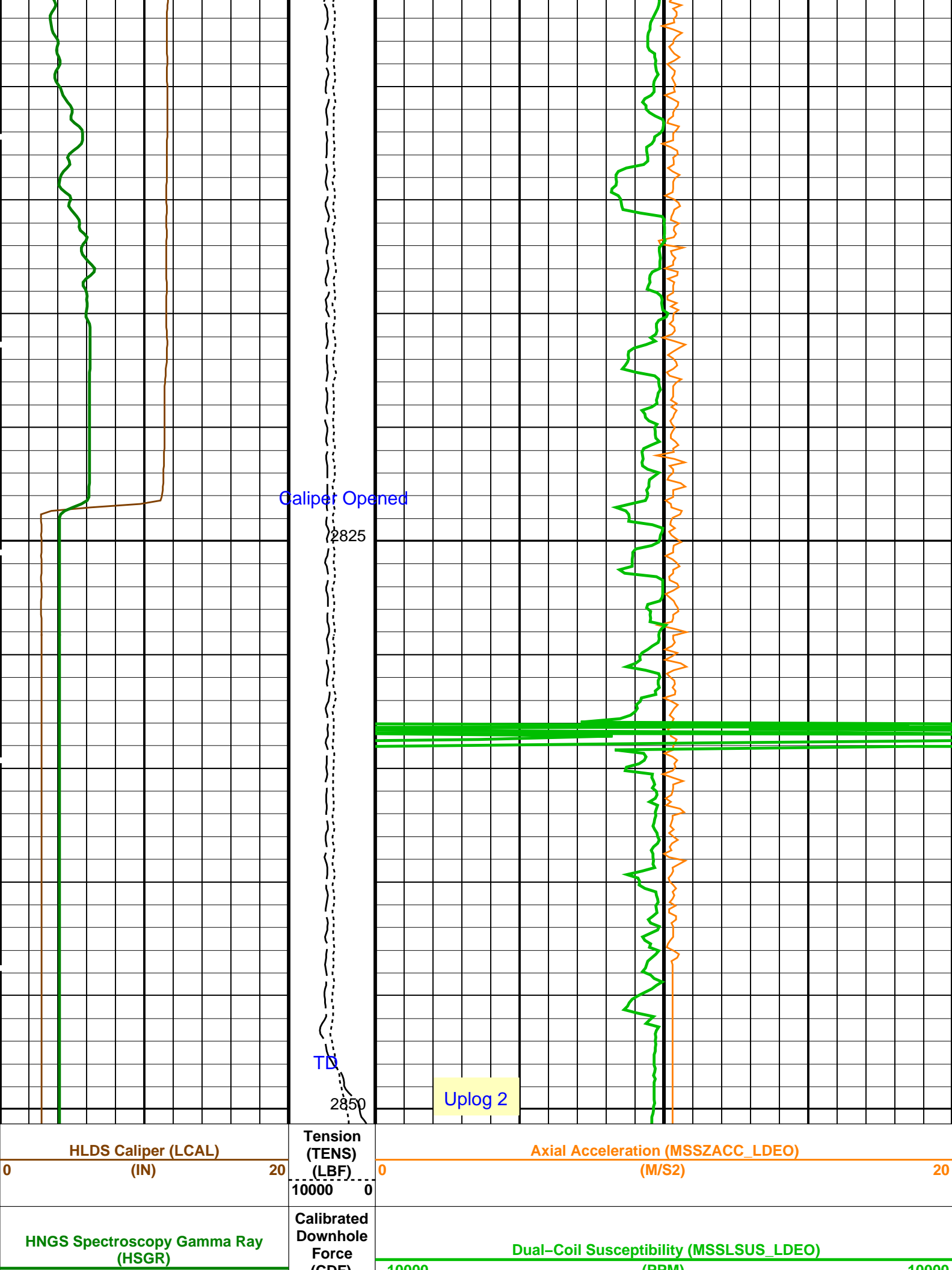


2700

2725







0	(GAPI)	100	(CDF) (LBF)	-10000	(PPM)	10000
		3000	0			
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)	7	DEGC			
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE				
CALTEMP	HRLTB Calibration Temperature	10.6916	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	LCAL				
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	AUTO				
LOOPMOD1	HRLT Mode 1 Loop Mode	AUTO				
LOOPMOD2	HRLT Mode 2 Loop Mode	AUTO				
LOOPMOD3	HRLT Mode 3 Loop Mode	AUTO				
LOOPMOD4	HRLT Mode 4 Loop Mode	AUTO				
LOOPMOD5	HRLT Mode 5 Loop Mode	AUTO				
LOOPMOD6	HRLT Mode 6 Loop Mode	AUTO				
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	20	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	2.6	G/C3			
PHVL	HLDS Long Spacing High Voltage Setting	1000	V			
PHVS	HLDS Short Spacing High Voltage Setting	1500	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				
APS-C: Accelerator-Porosity Tool						
	APS Software Version	5				
AASD	APS Thermal and Array Detectors High Voltage Setting	1976.24	V			
ADSO	APS Array Detectors Data Source Switch	Both				
AFSD	APS Far Detector High Voltage Setting	2067.55	V			
AHCS	APS Holesize Correction Source	GCSE				
AHSS	APS Holesize Correction Switch	ON				
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite				
ANSD	APS Near Detector High Voltage Setting	1737.8	V			
ASOS	APS Standoff Correction Switch	ON				
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON				
BHFL_APS	APS TNPH Borehole Fluid Type	WATER				
BHS	Borehole Status	OPEN				
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC			
BSCO_APS	APS TNPH Borehole Salinity Correction Option	NO				
DPPM	Density Porosity Processing Mode	HIRS				
DSCO_APS	APS TNPH Density Source Correction Option	MEASURED				
FSAL	Formation Salinity	-50000	PPM			
FSOS_APS	APS TNPH Density Source Correction Option	NO				

FSCO_APS	APS TNPH Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	LCAL	
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_APS	APS TNPH Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	NO	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.08341	
NFRC	APS Near/Far Calibration Ratio	0.942369	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	NO	
SHT	Surface Hole Temperature	20	DEGC
TNCO_APS	APS TNPH Computation Option	YES	
HNGBS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGBS Detector 1 Barite Constant	1	
BAR2	HNGBS Detector 2 Barite Constant	1	
BHK	HNGBS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	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	HNGBS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
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	HNGBS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGBS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGBS Borehole Potassium Running Average	-0.000965941	
HALF	HNGBS Alpha Filter Length	60	IN
HCRB	HNGBS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGBS Processing Enable	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGBS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGBS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGBS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGBS Detector 1 Variable Barite Factor Running Average	1.05247	
VBA2	HNGBS Detector 2 Variable Barite Factor Running Average	1.03733	
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	38000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.02	G/C3
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	23.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	9345.14	FT
TDD	Total Depth - Driller	2848.40	M
TDL	Total Depth - Logger	2848.40	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 04-Aug-2021 06:19

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
HNGBS-BA	19C0-187	DTC-H	19C0-187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_012LUP	FN:16	PRODUCER	04-Aug-2021 06:19
BACKUP	MSS_LDEO_HRLA_LDL_012LUP	FN:17	PRODUCER	04-Aug-2021 06:19

Output DLIS Files

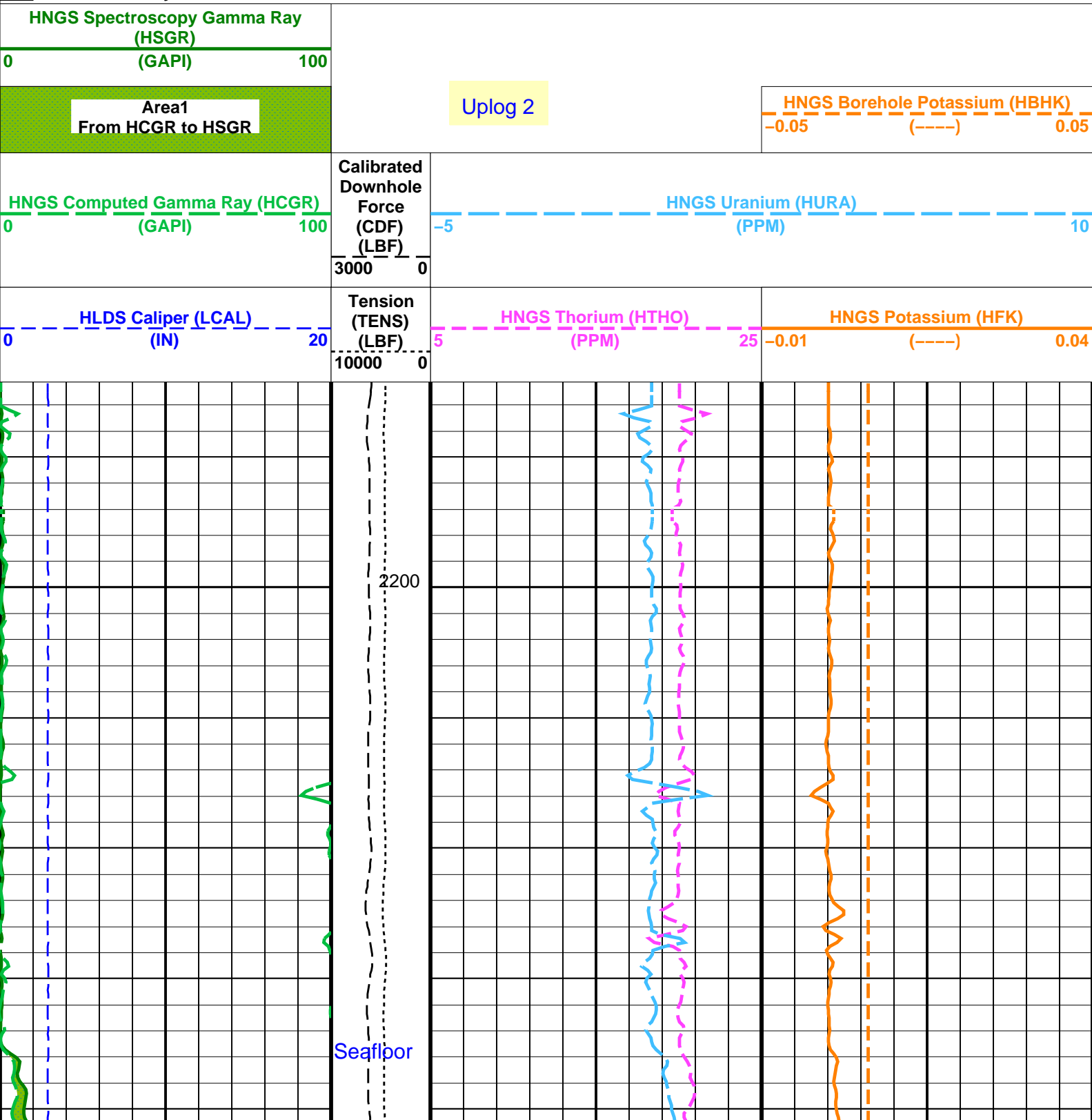
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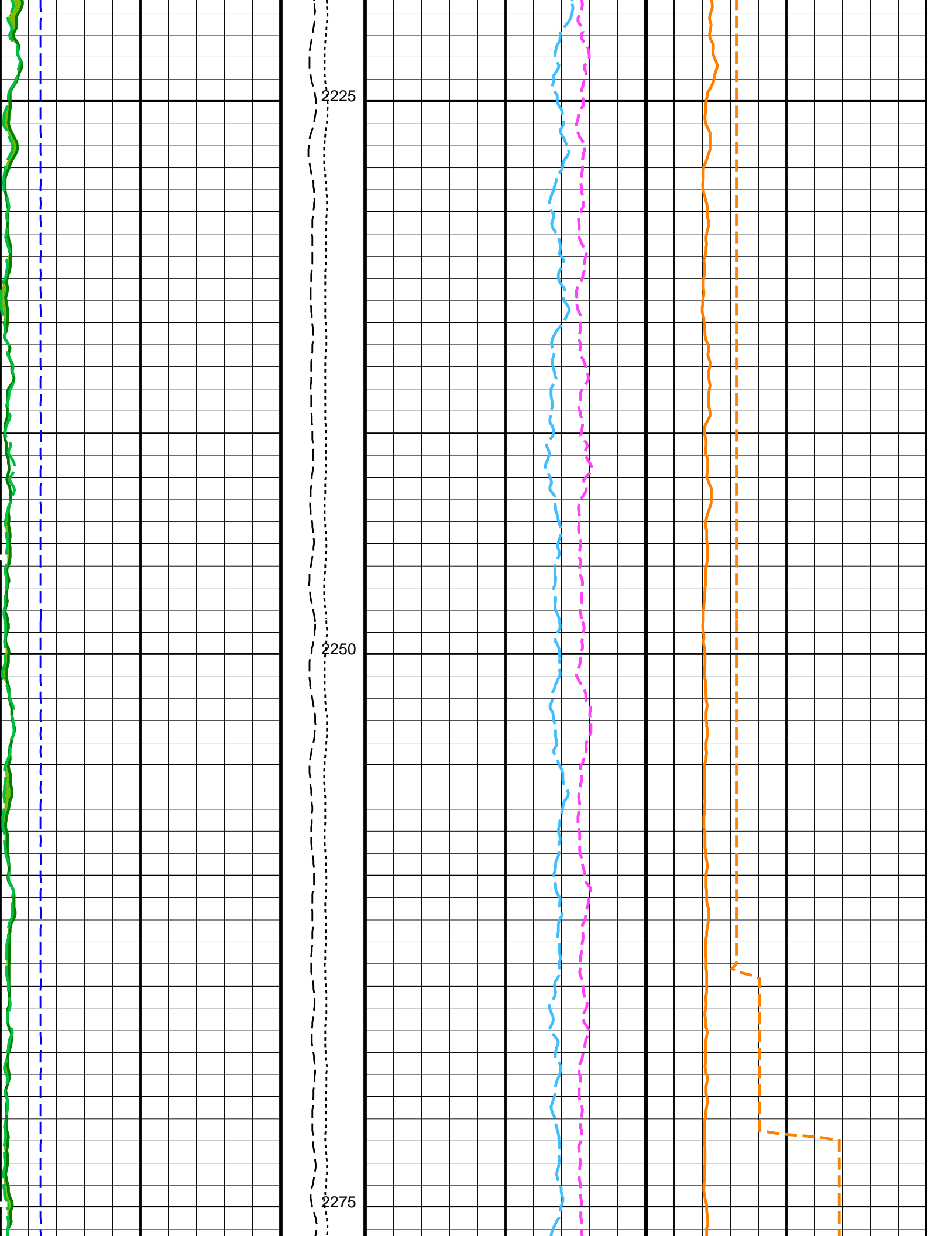
OP System Version: 19C0-187

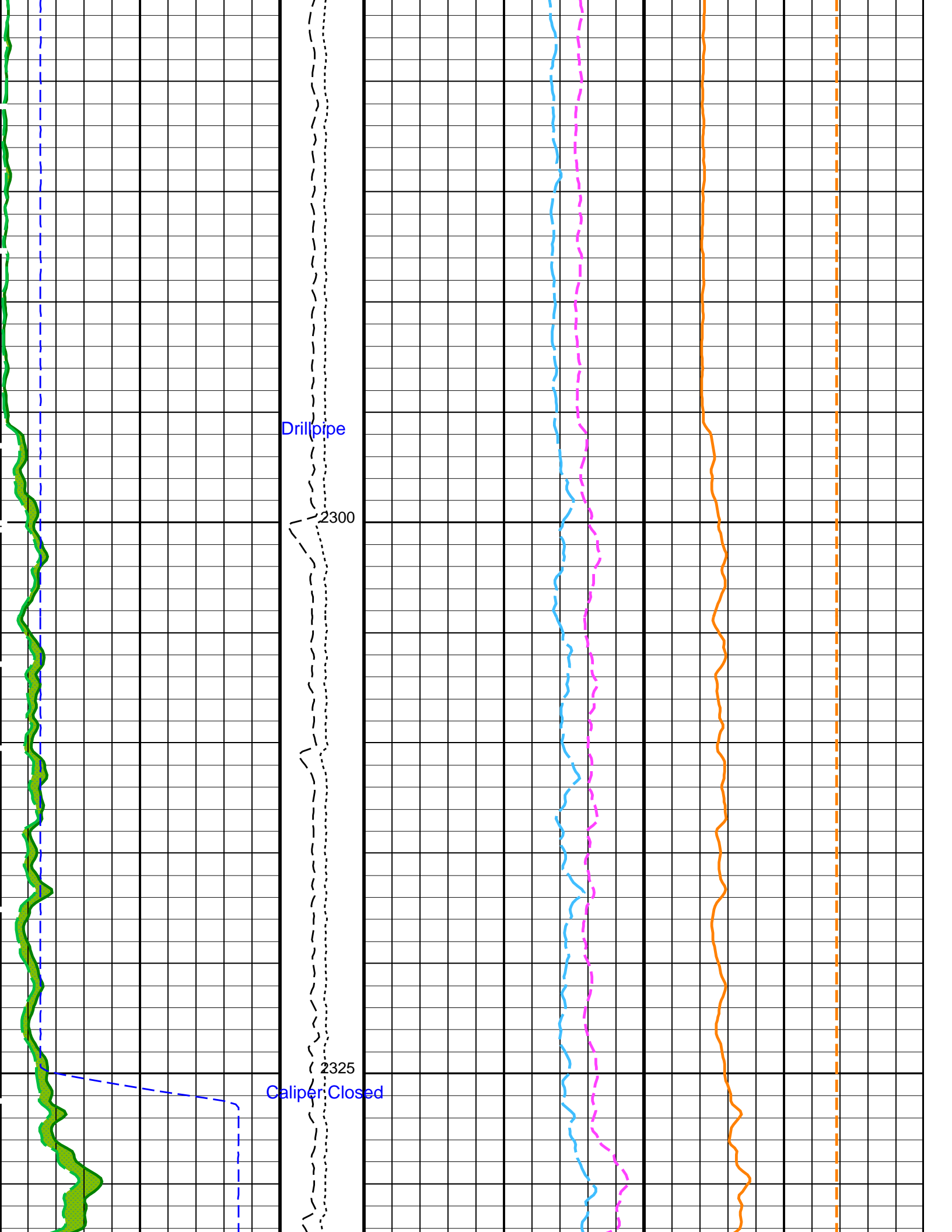
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HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

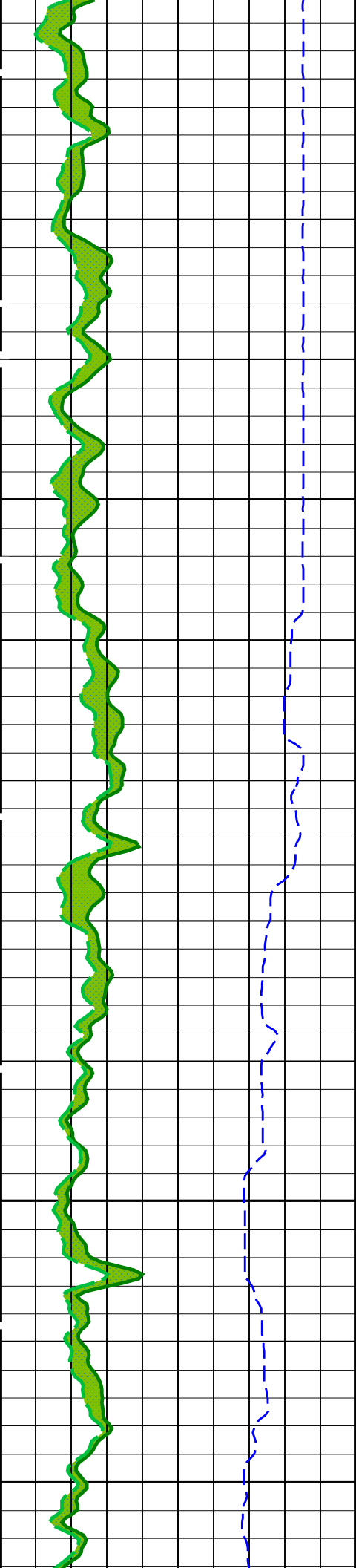
PIP SUMMARY

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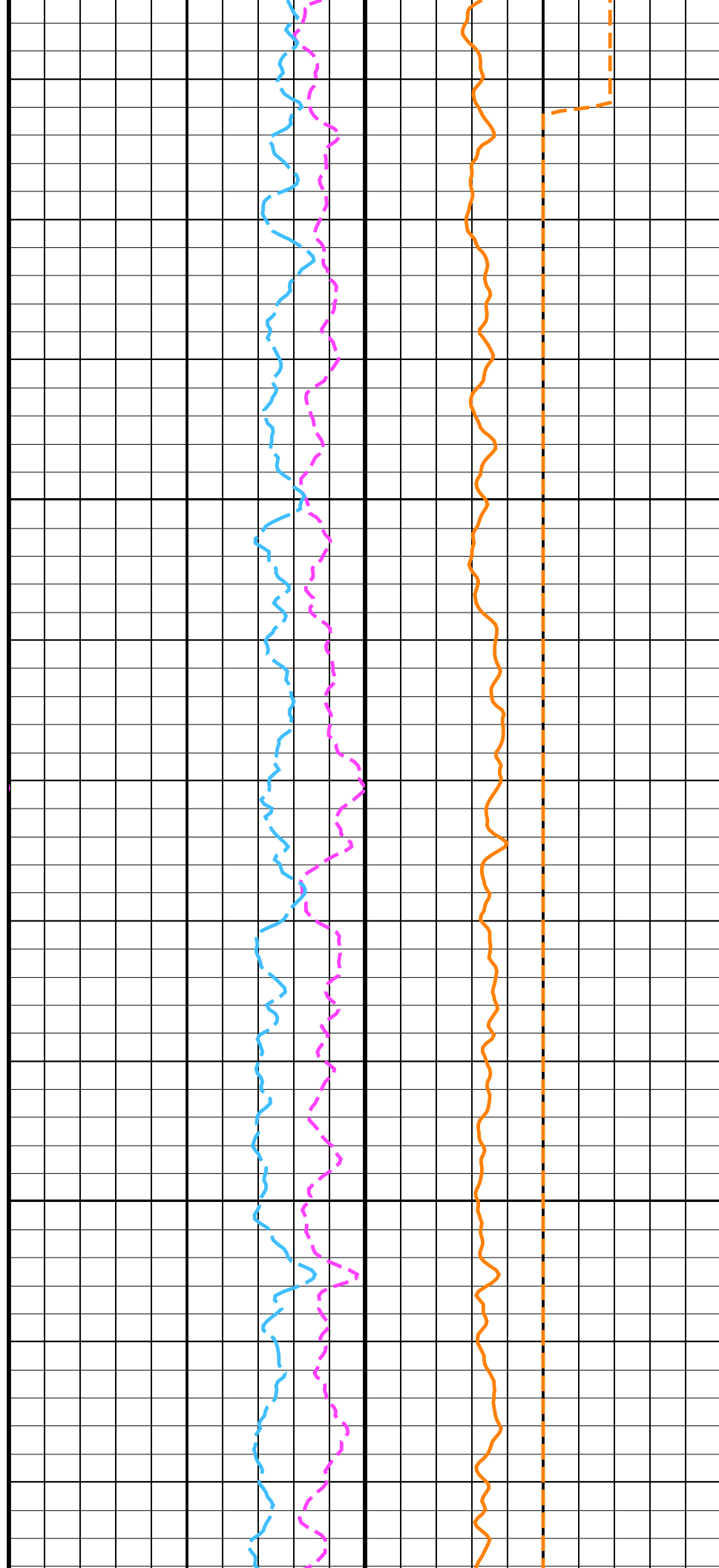


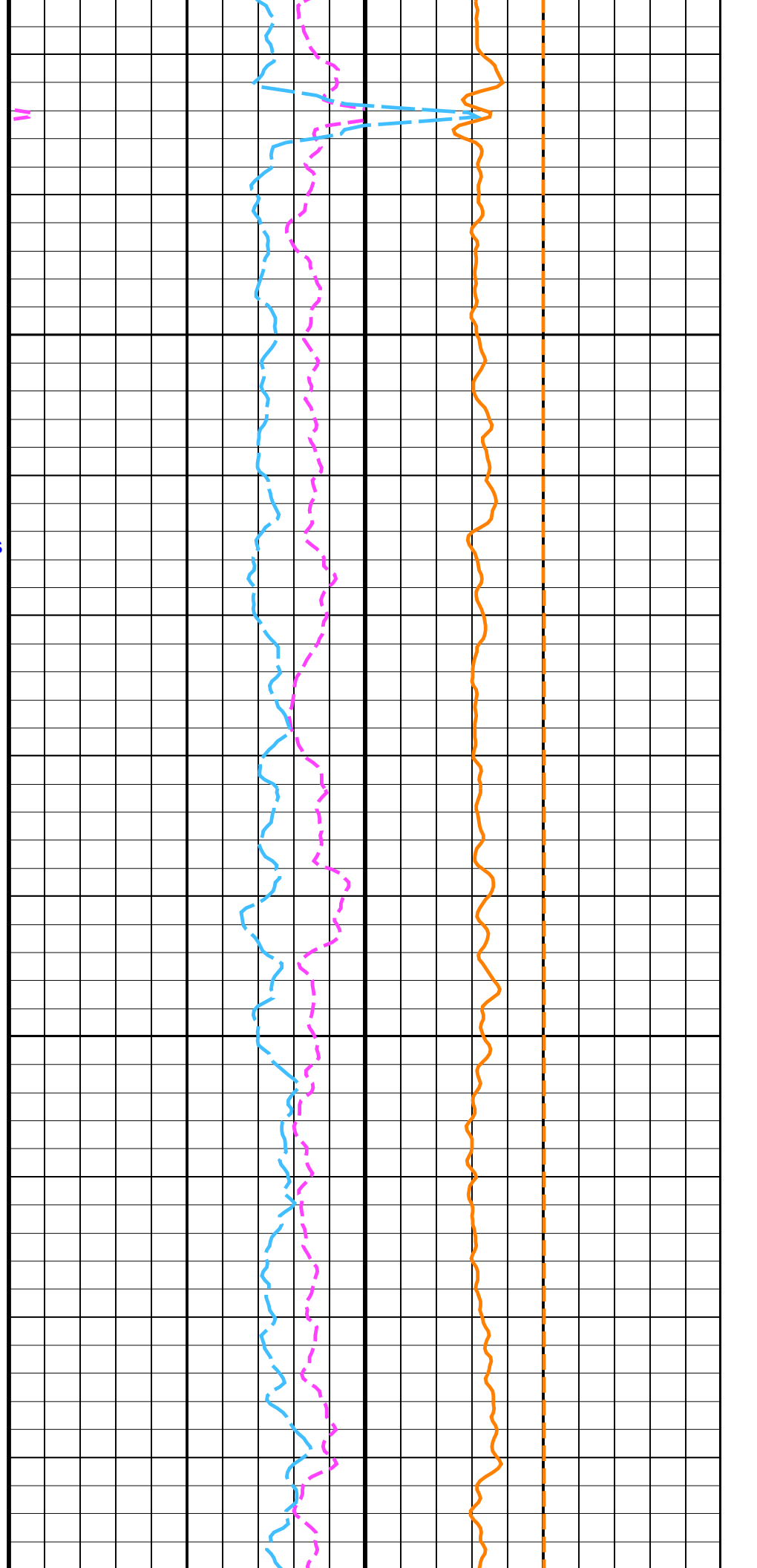
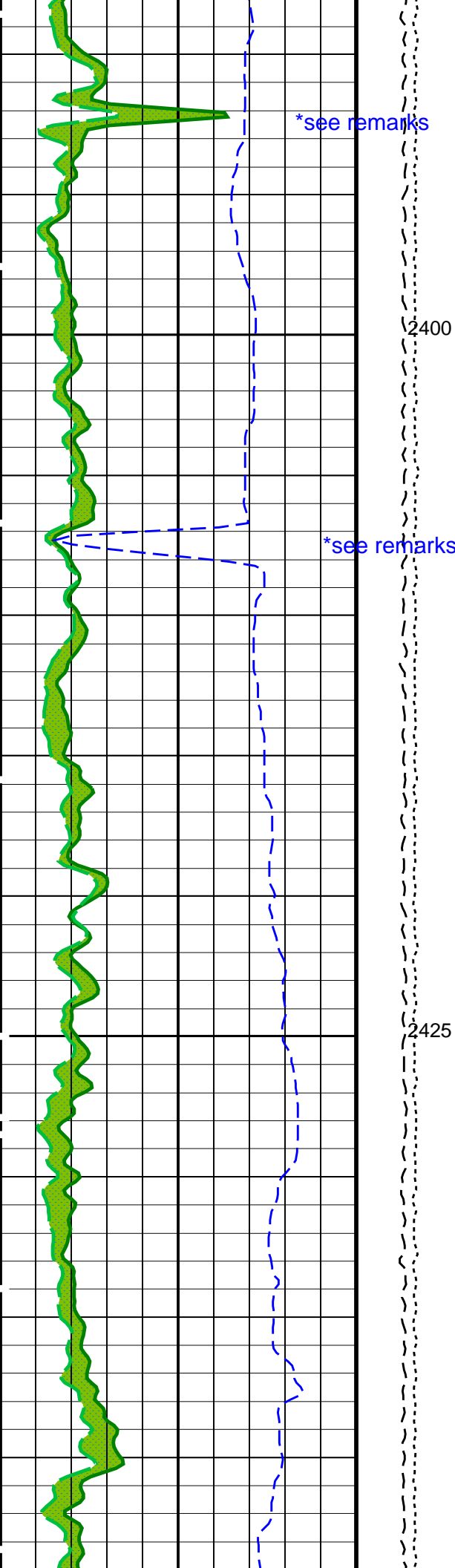


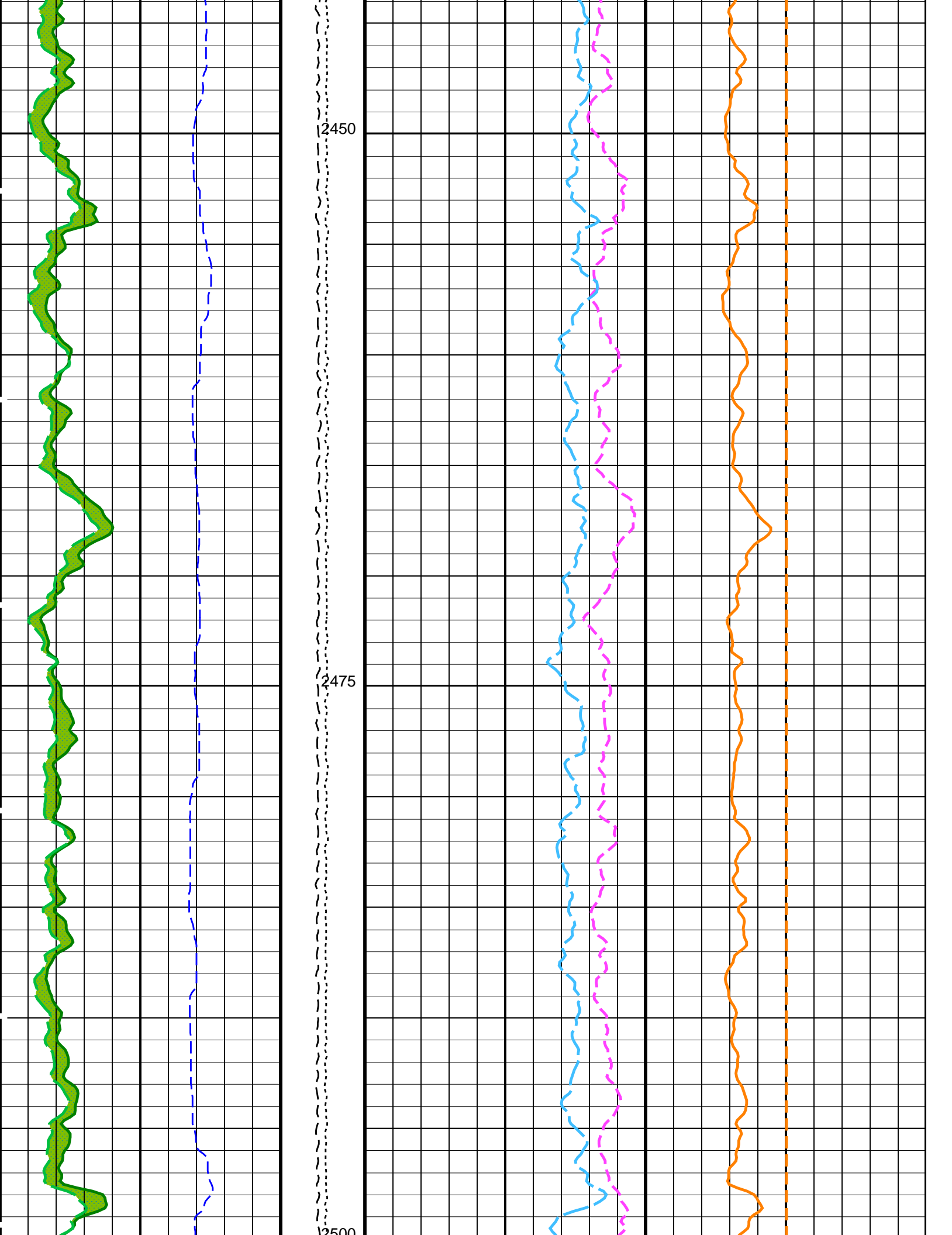


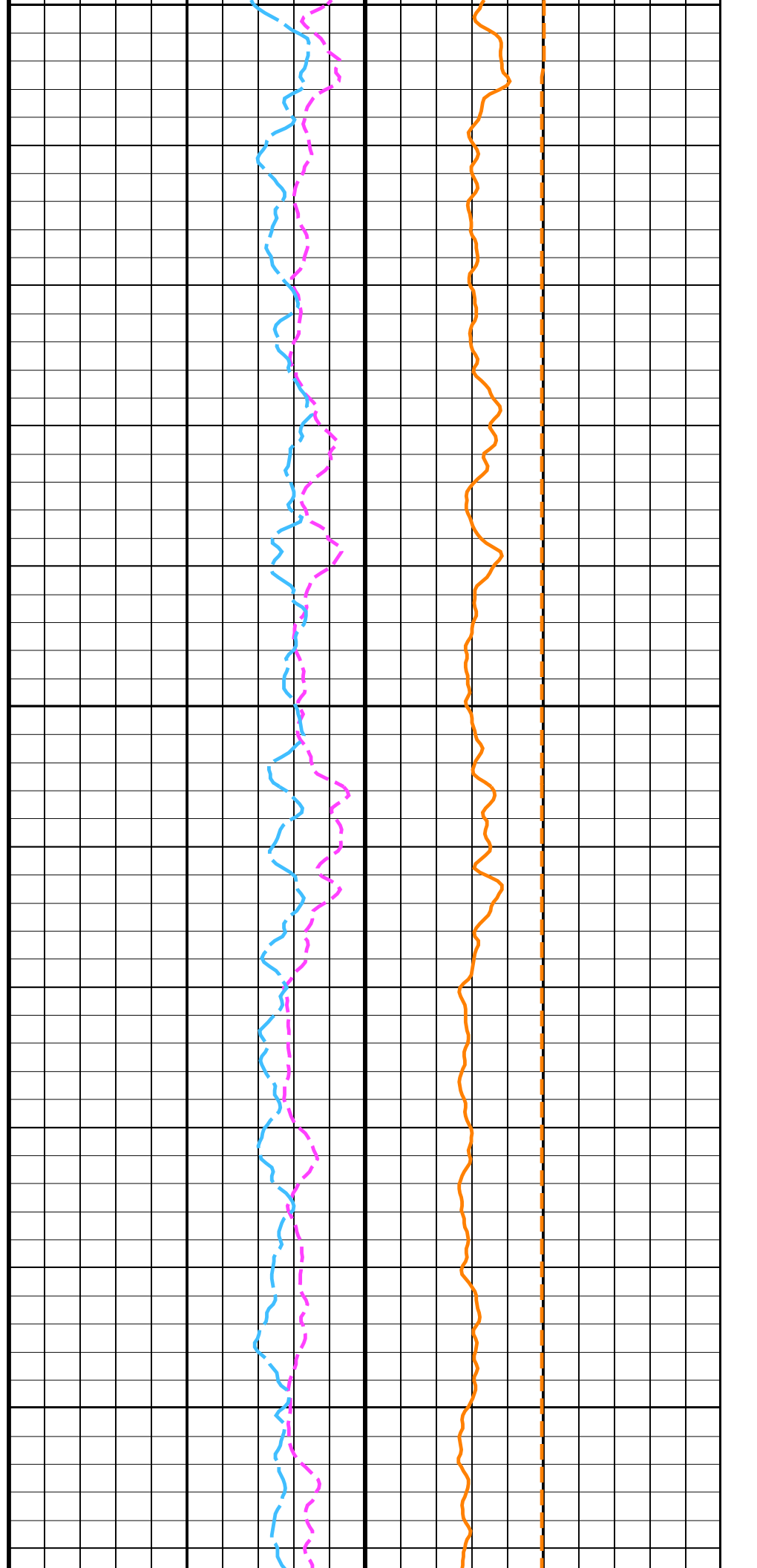
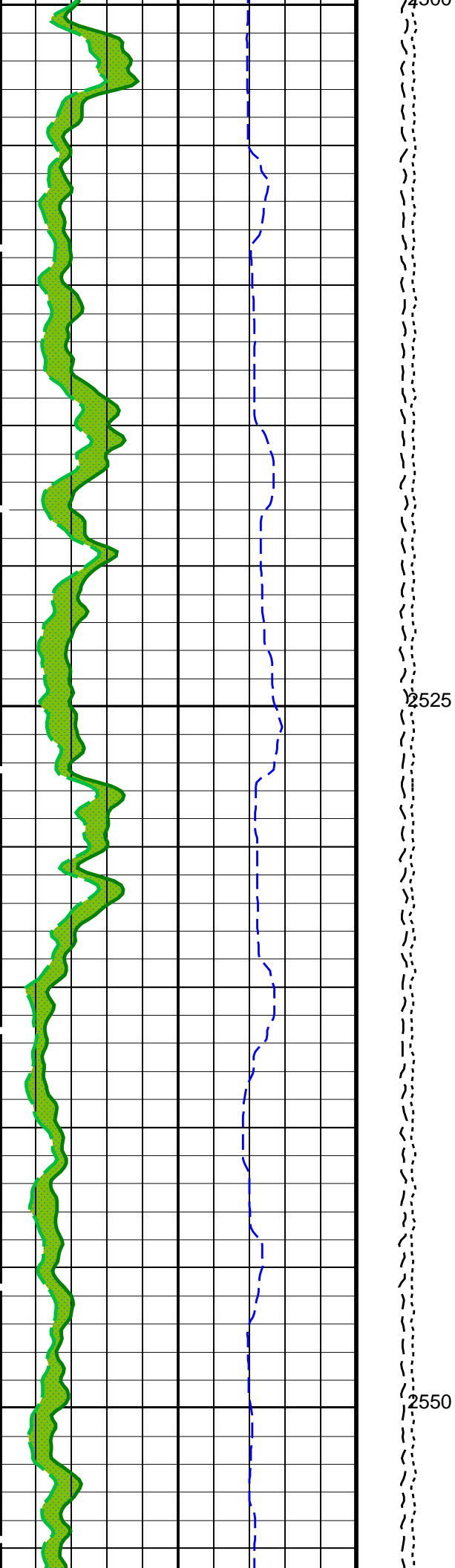


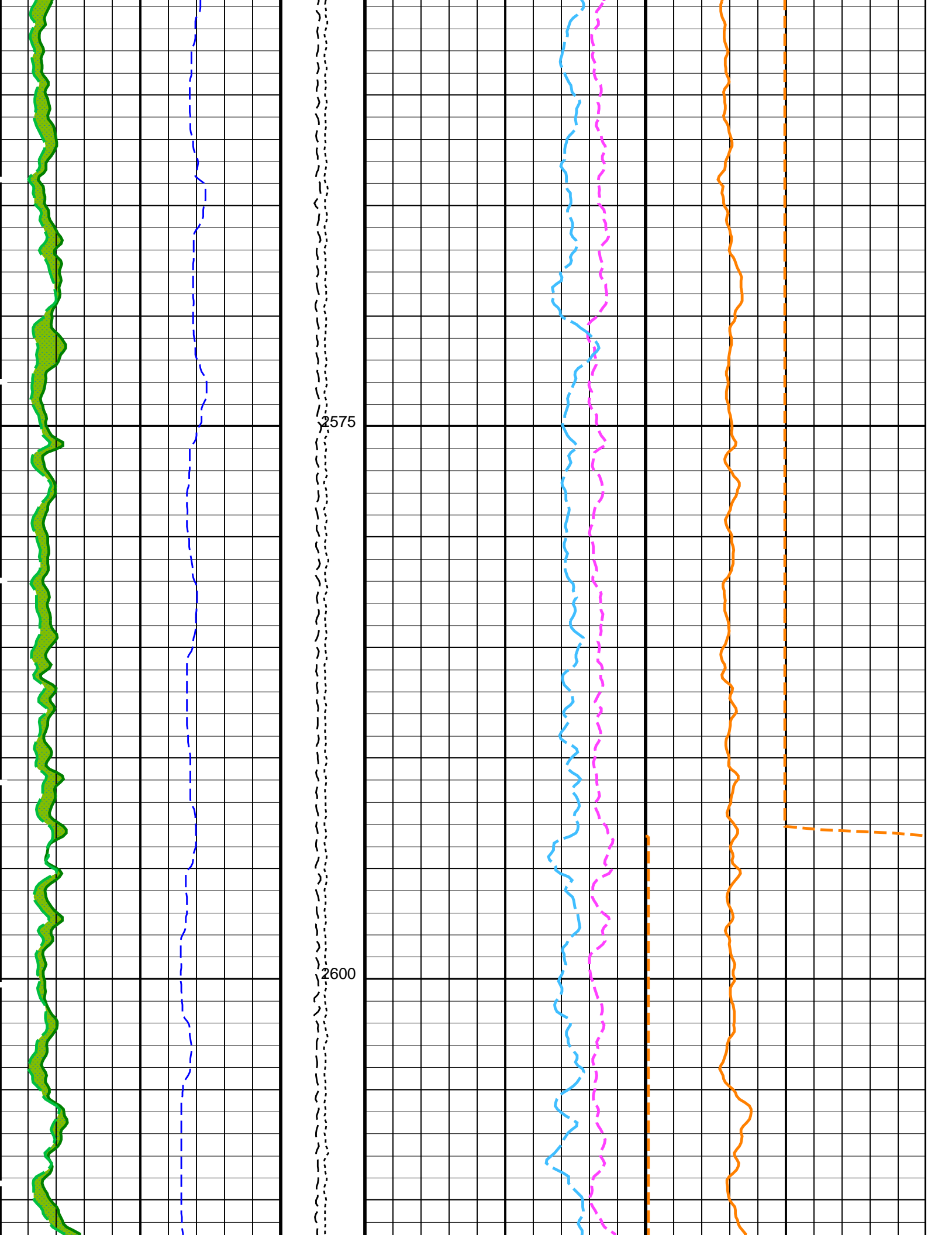
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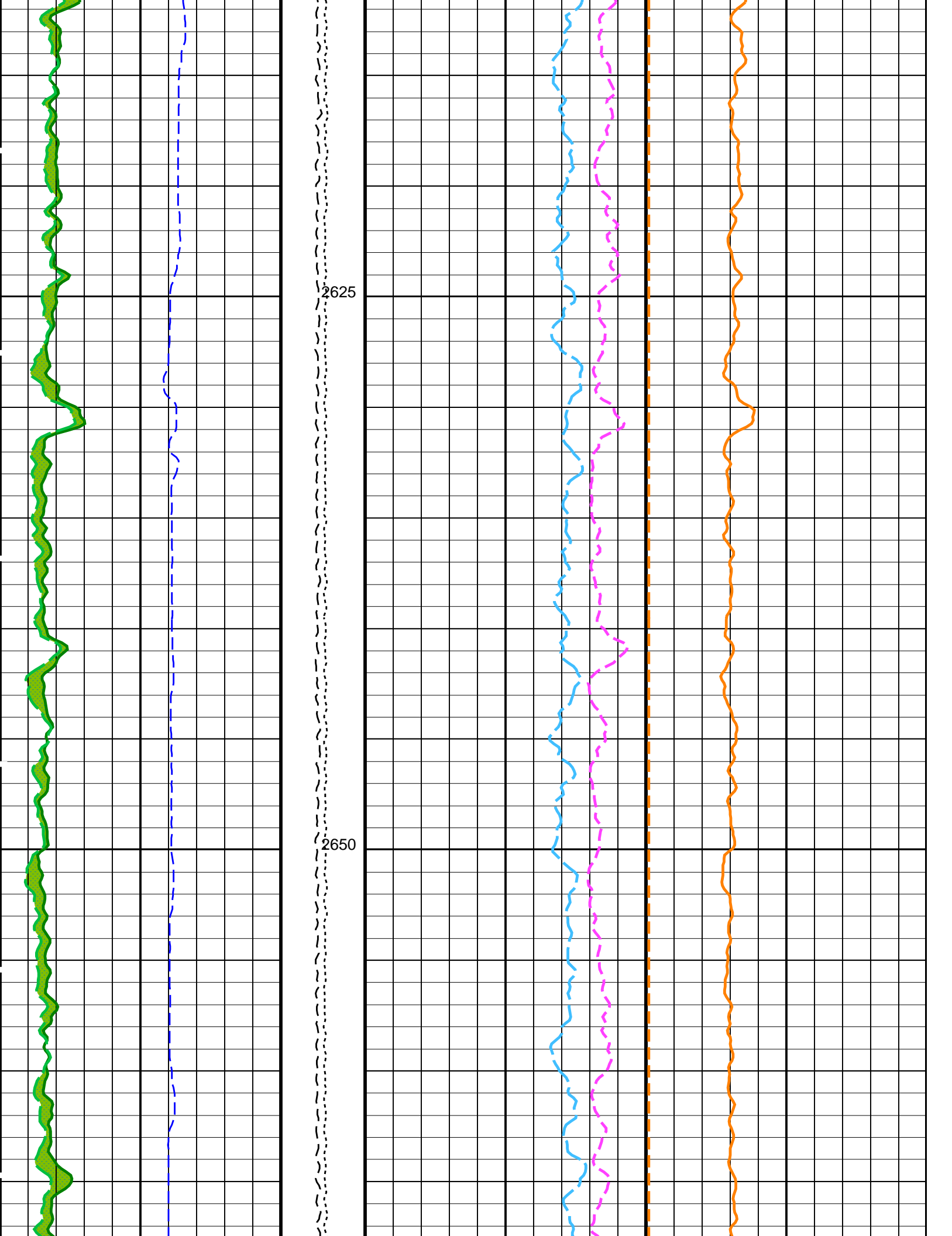


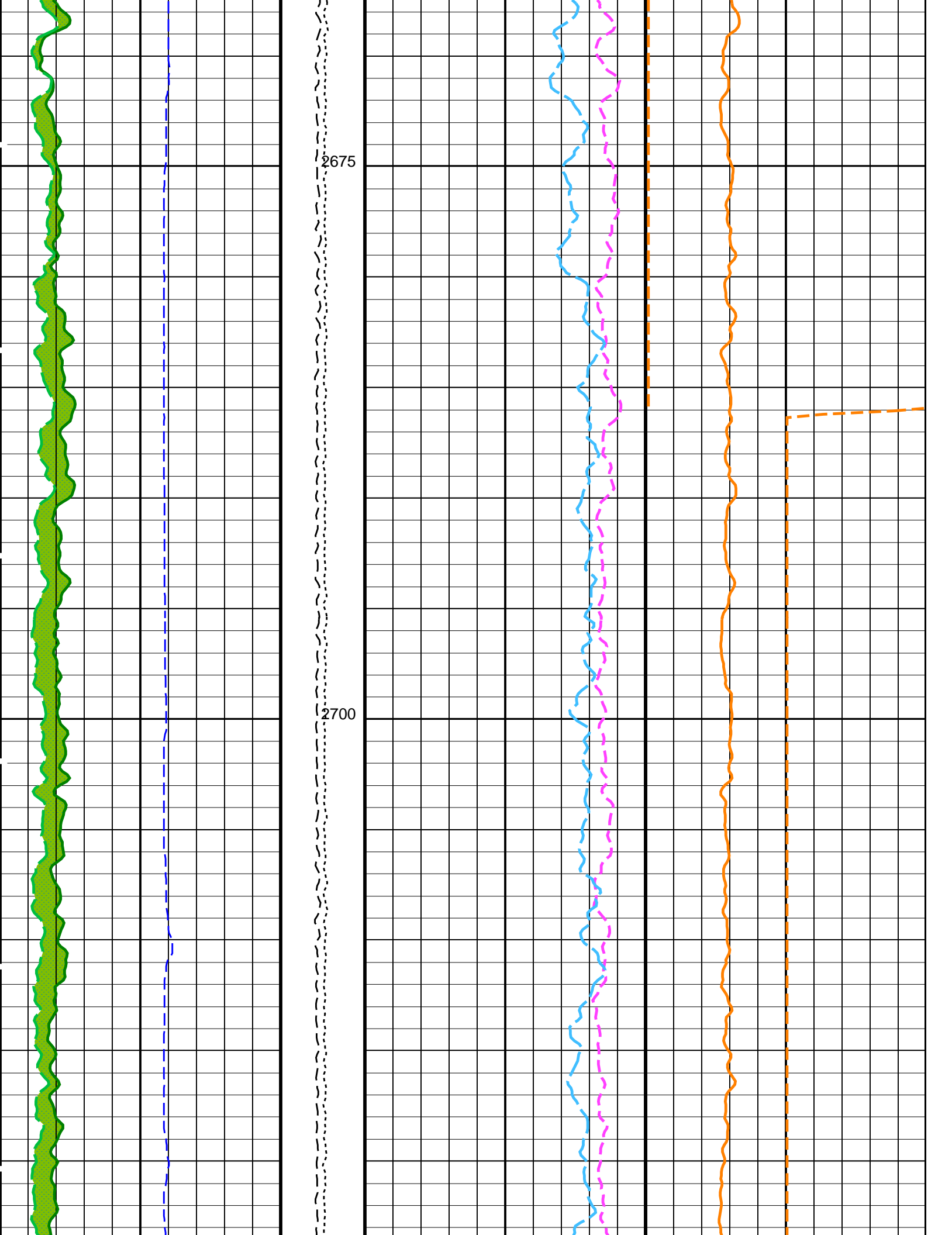


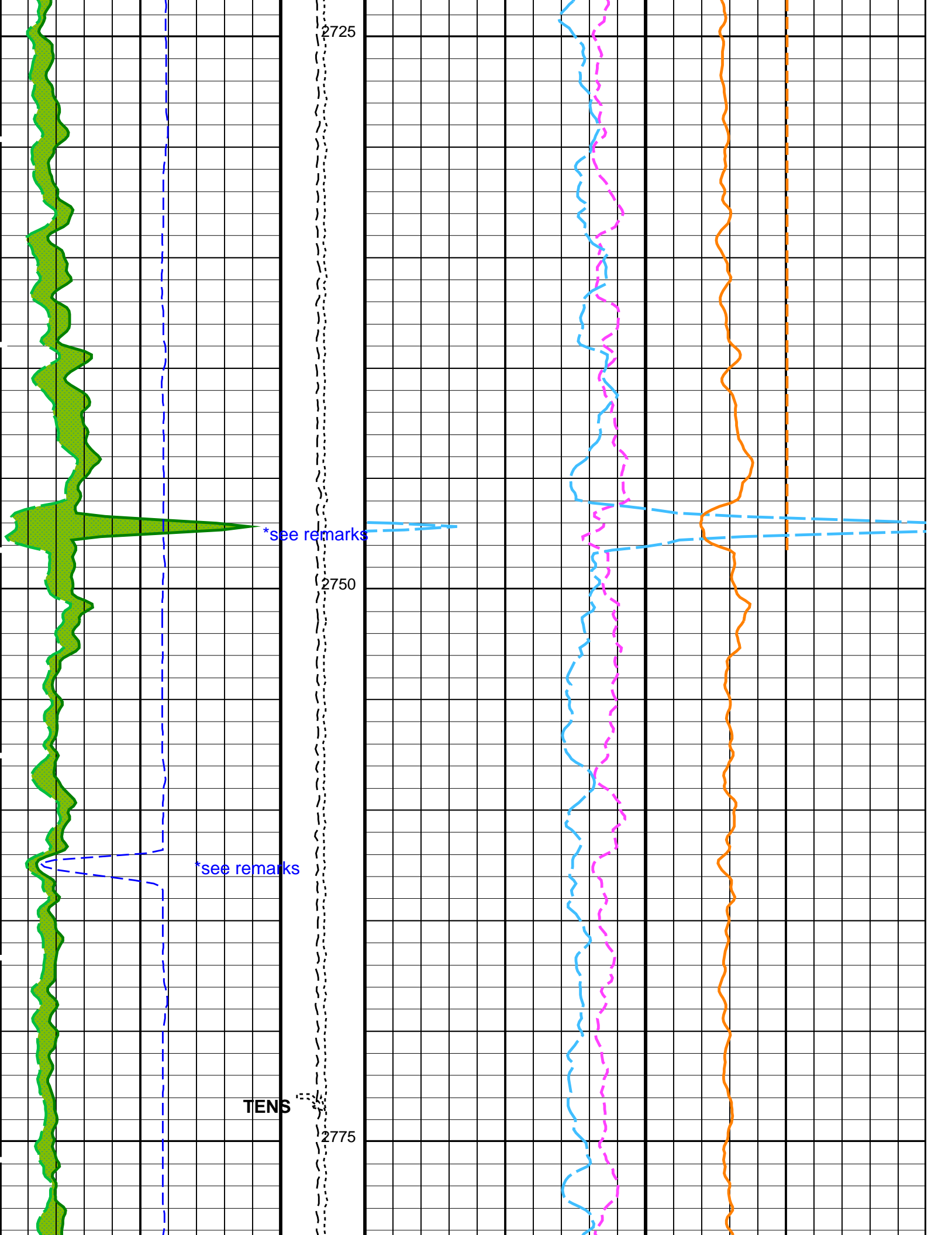


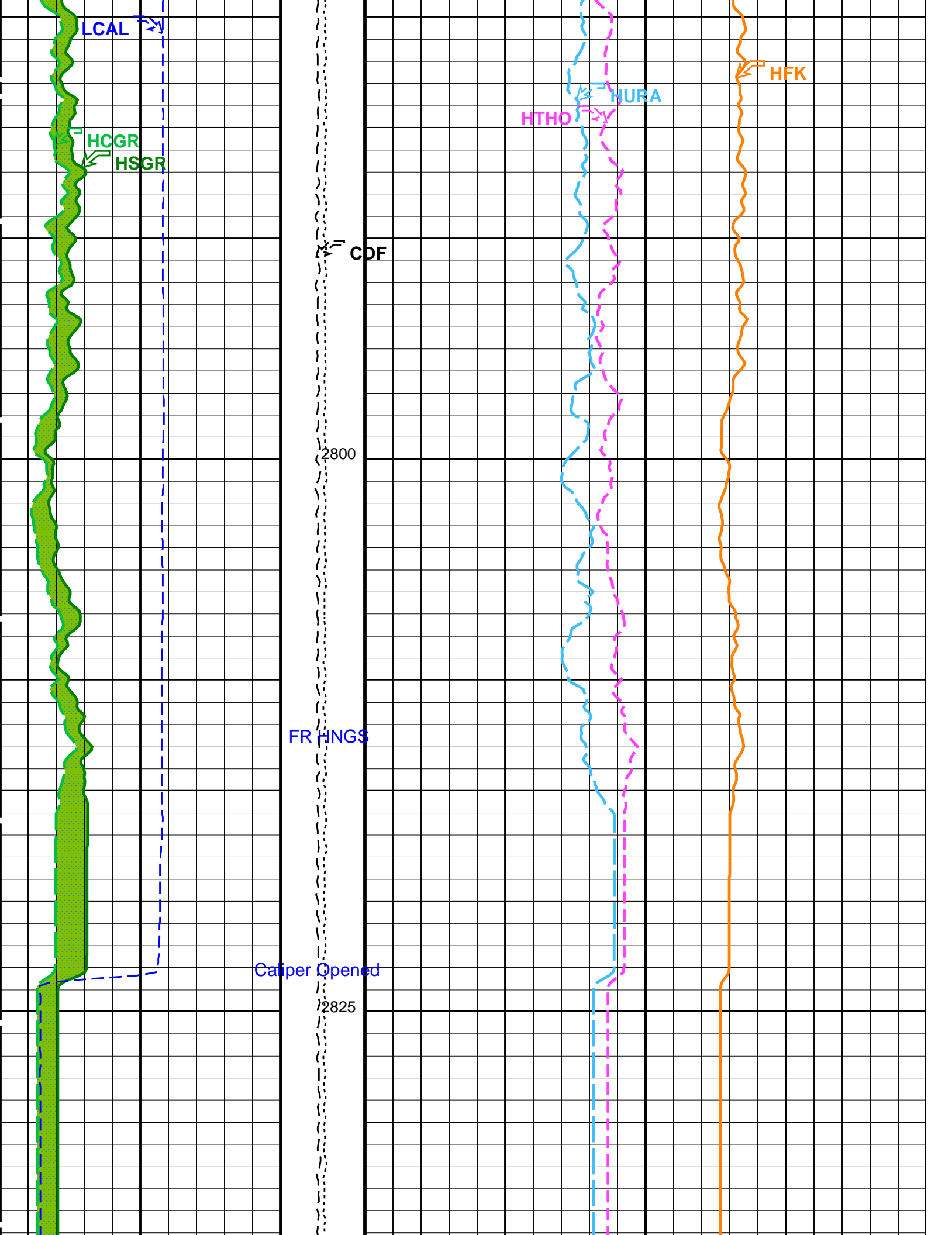


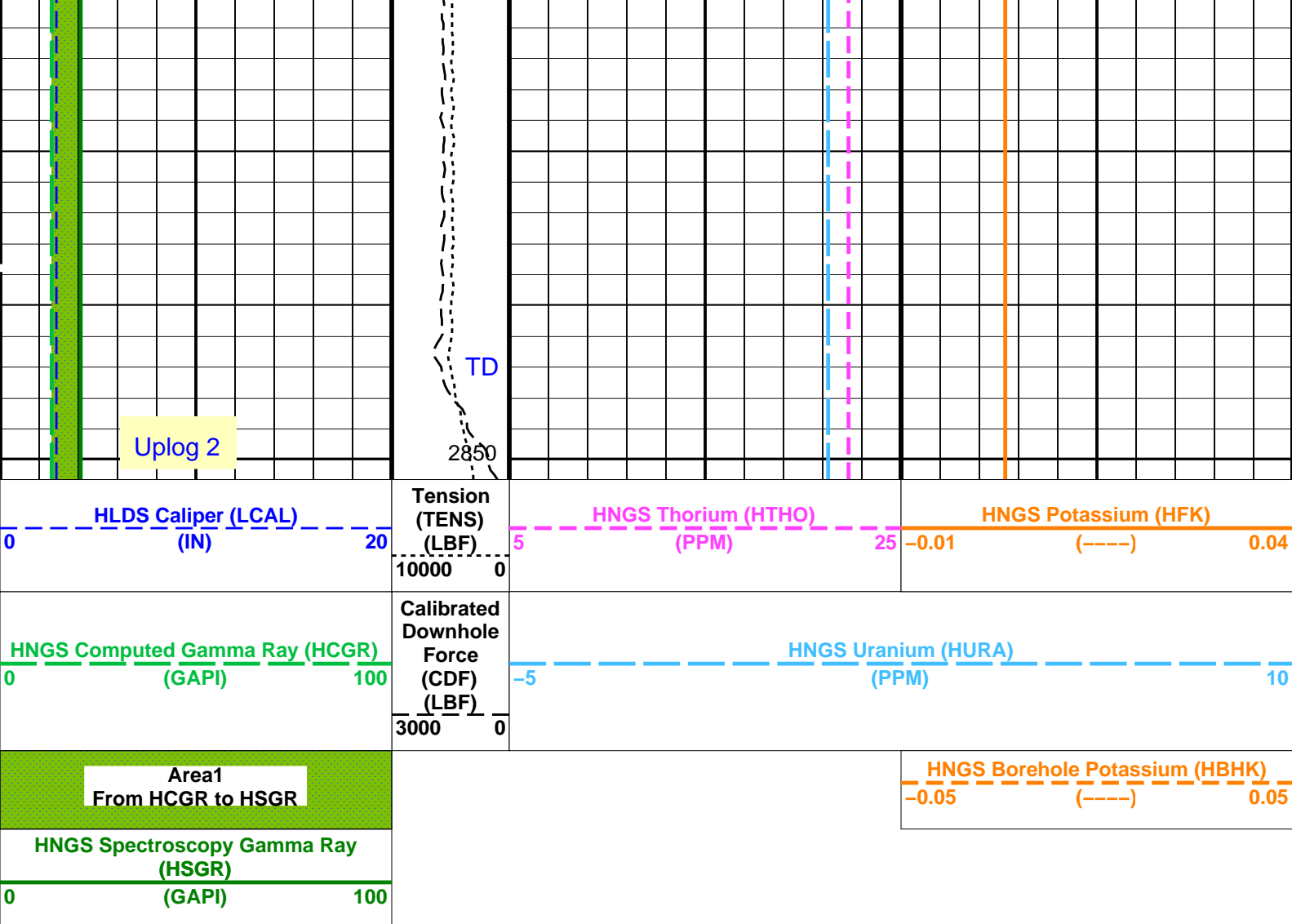












PIP SUMMARY

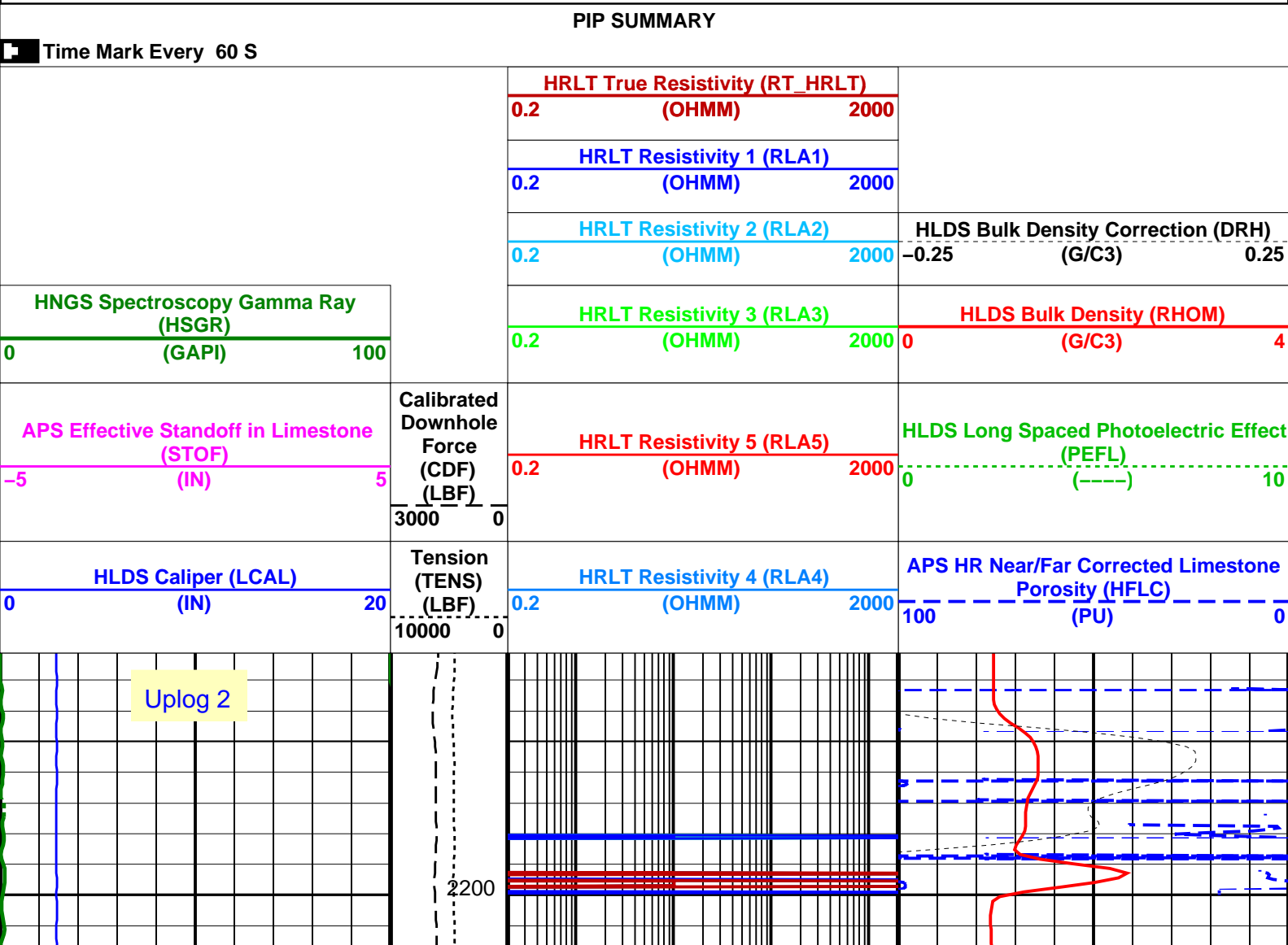
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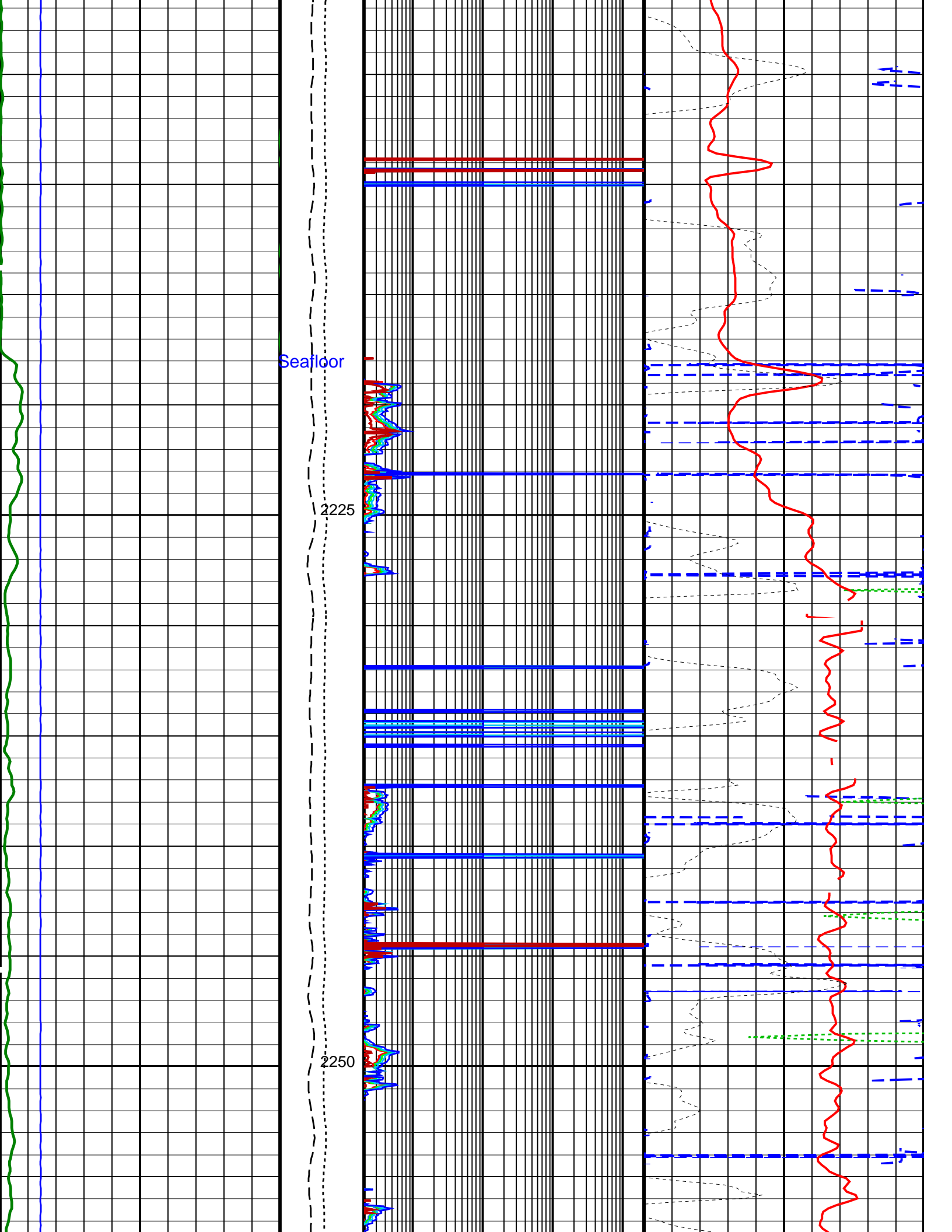
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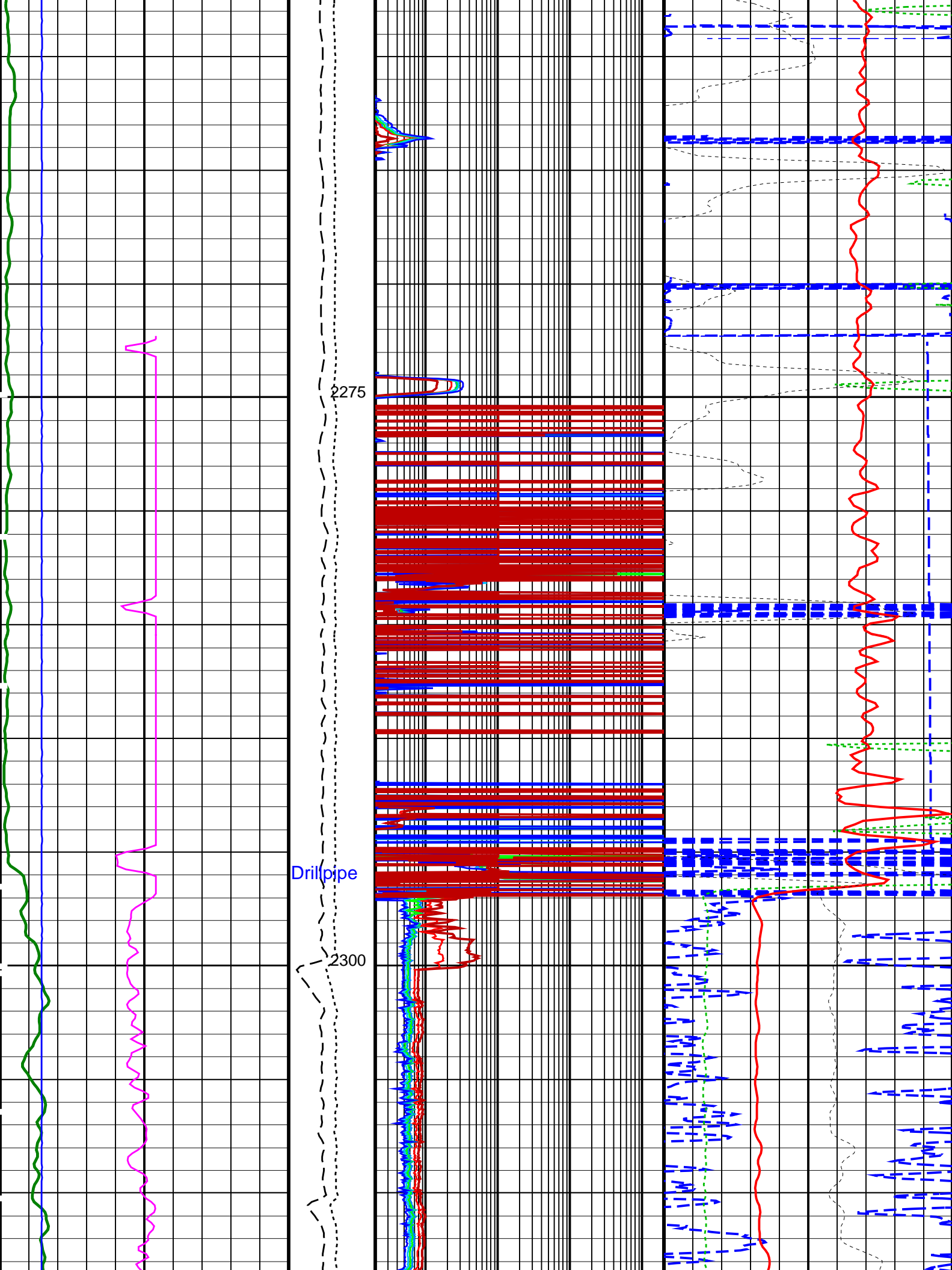
DLIS Name	Description	Value	
BHS	HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
BHS	APS-C: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
BHS	HNGS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	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	-0.000965941	
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	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	1.05247	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03733	

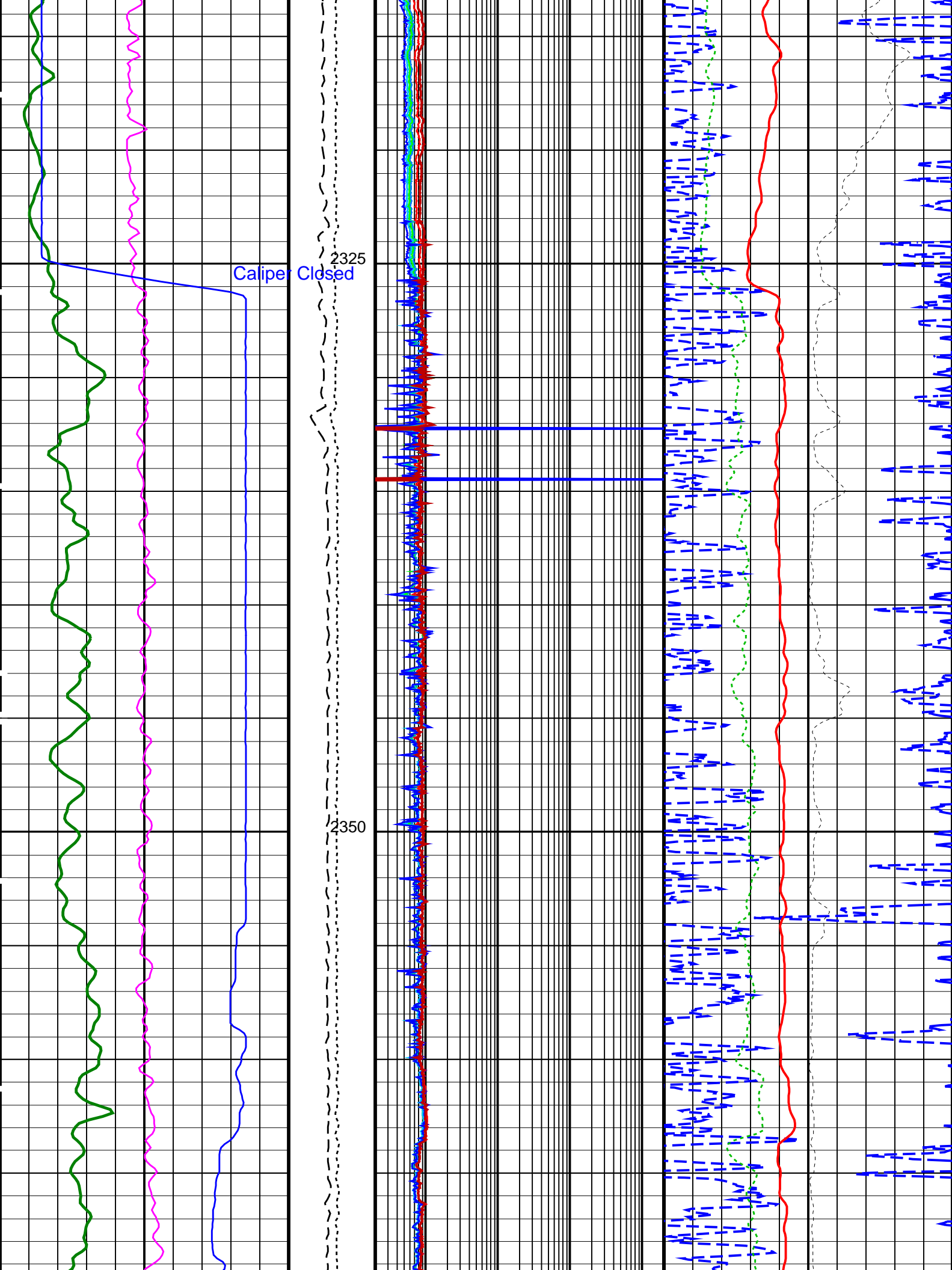
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OP System Version: 19C0-187									
MSS_LDEO-A	19C0-187			HRLT-B		19C0-187			
HLDS	19C0-187			LDSC-B		19C0-187			
APS-C	19C0-187			HNGC-B		19C0-187			
HNGS-BA	19C0-187			DTC-H		19C0-187			
Output DLIS Files									
DEFAULT	MSS_LDEO_HRLA_LDL_012LUP		FN:16	PRODUCER	04-Aug-2021 06:19				
BACKUP	MSS_LDEO_HRLA_LDL_012LUP		FN:17	PRODUCER	04-Aug-2021 06:19				

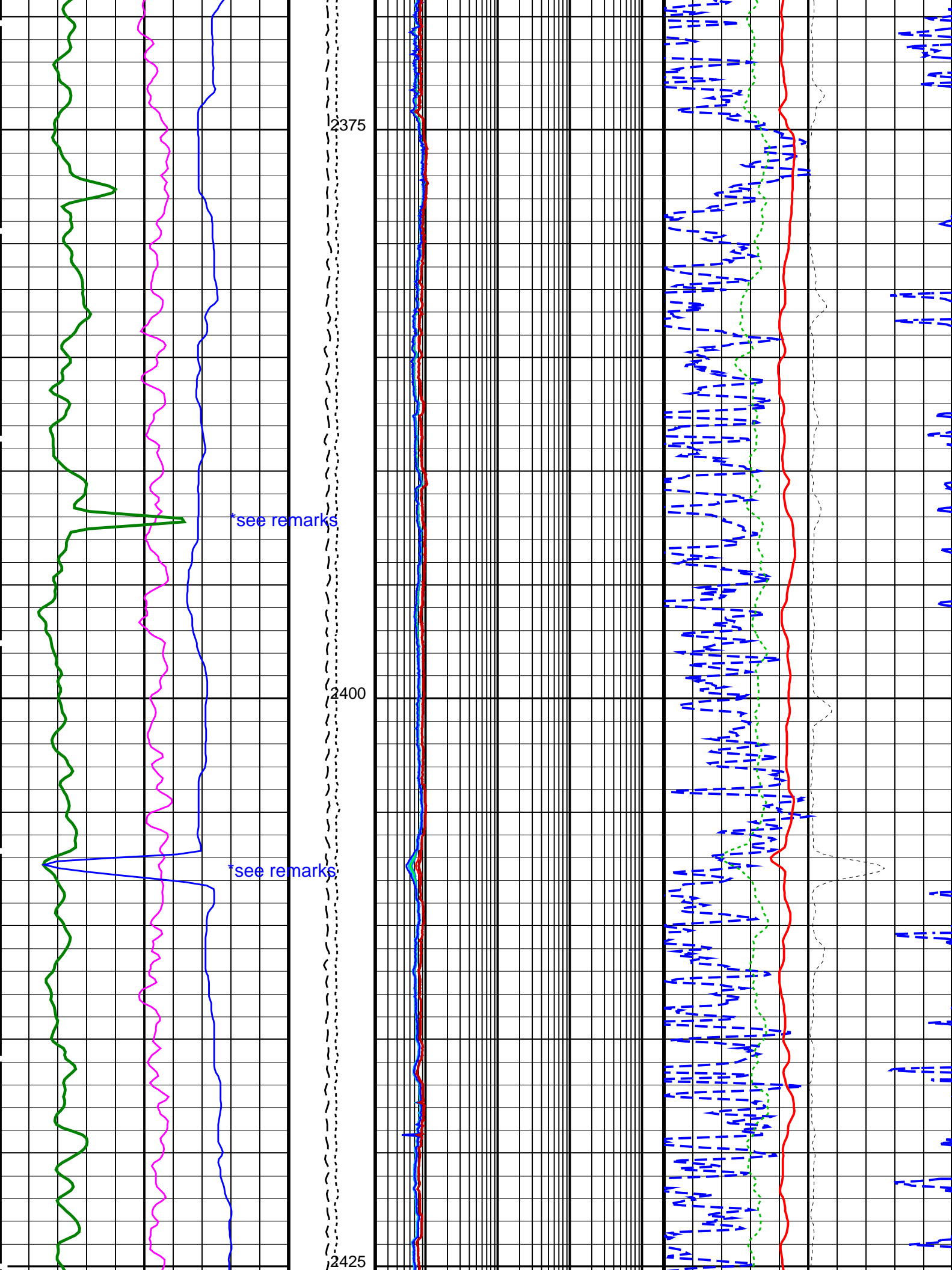
Output DLIS Files							
DEFAULT	MSS_LDEO_HRLA_LDL_012LUP	FN:16	PRODUCER	04-Aug-2021 06:19	2850.6 M	2192.3 M	
BACKUP	MSS_LDEO_HRLA_LDL_012LUP	FN:17	PRODUCER	04-Aug-2021 06:19	2850.6 M	2192.3 M	
OP System Version: 19C0-187							
MSS_LDEO-A	19C0-187			HRLT-B	19C0-187		
HLDS	19C0-187			LDSC-B	19C0-187		
APS-C	19C0-187			HNGC-B	19C0-187		
HNGS-BA	19C0-187			DTC-H	19C0-187		

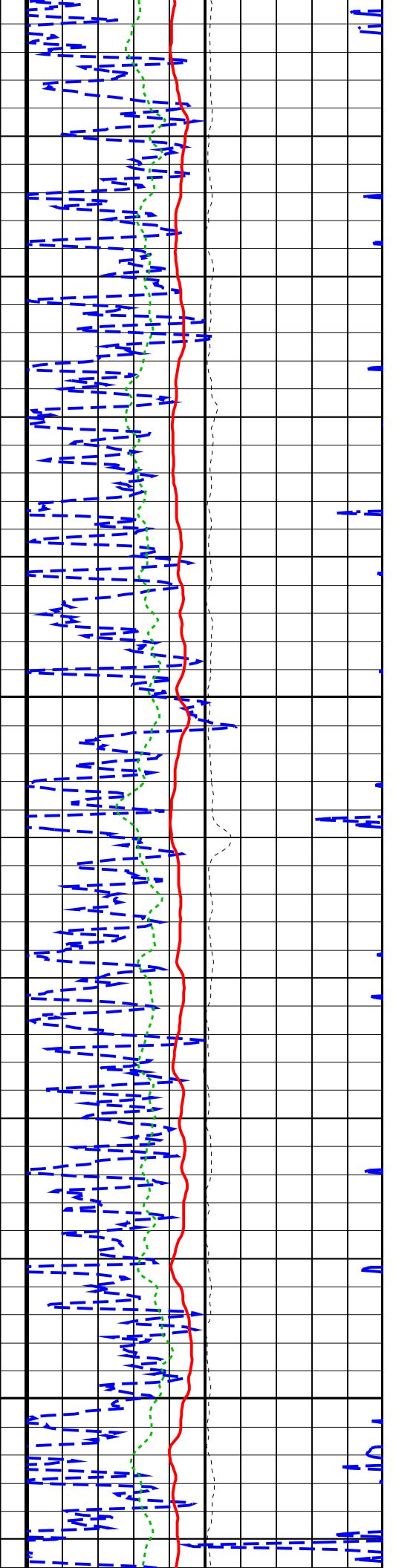
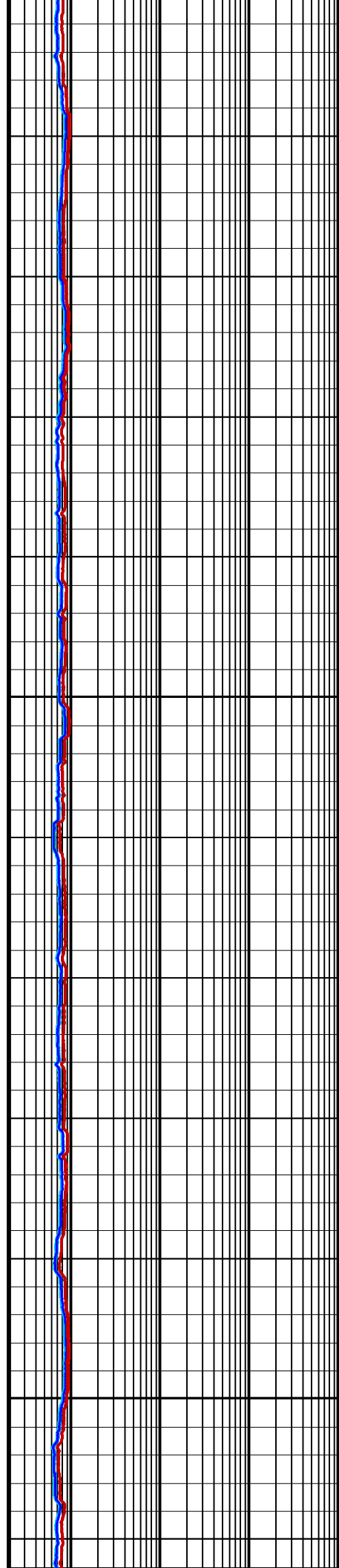
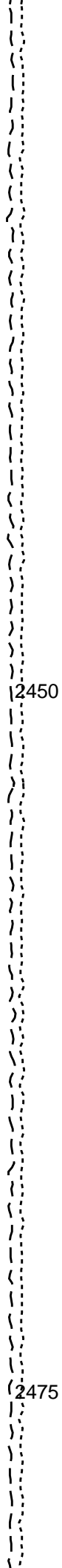
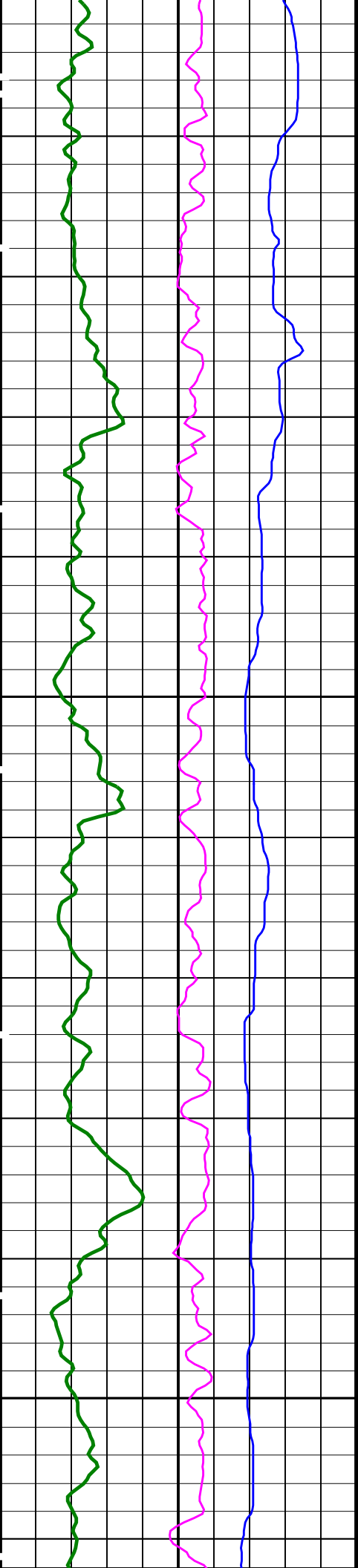


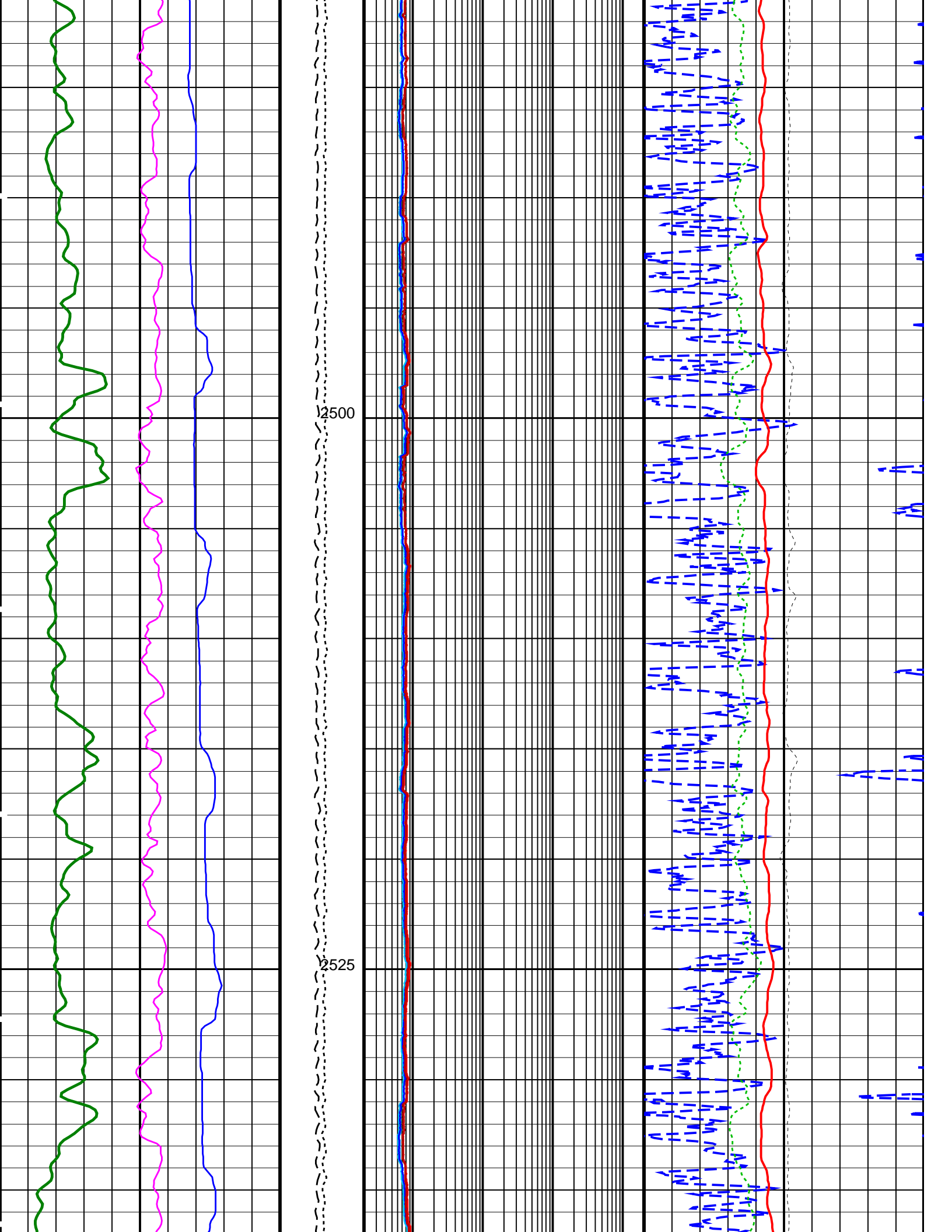


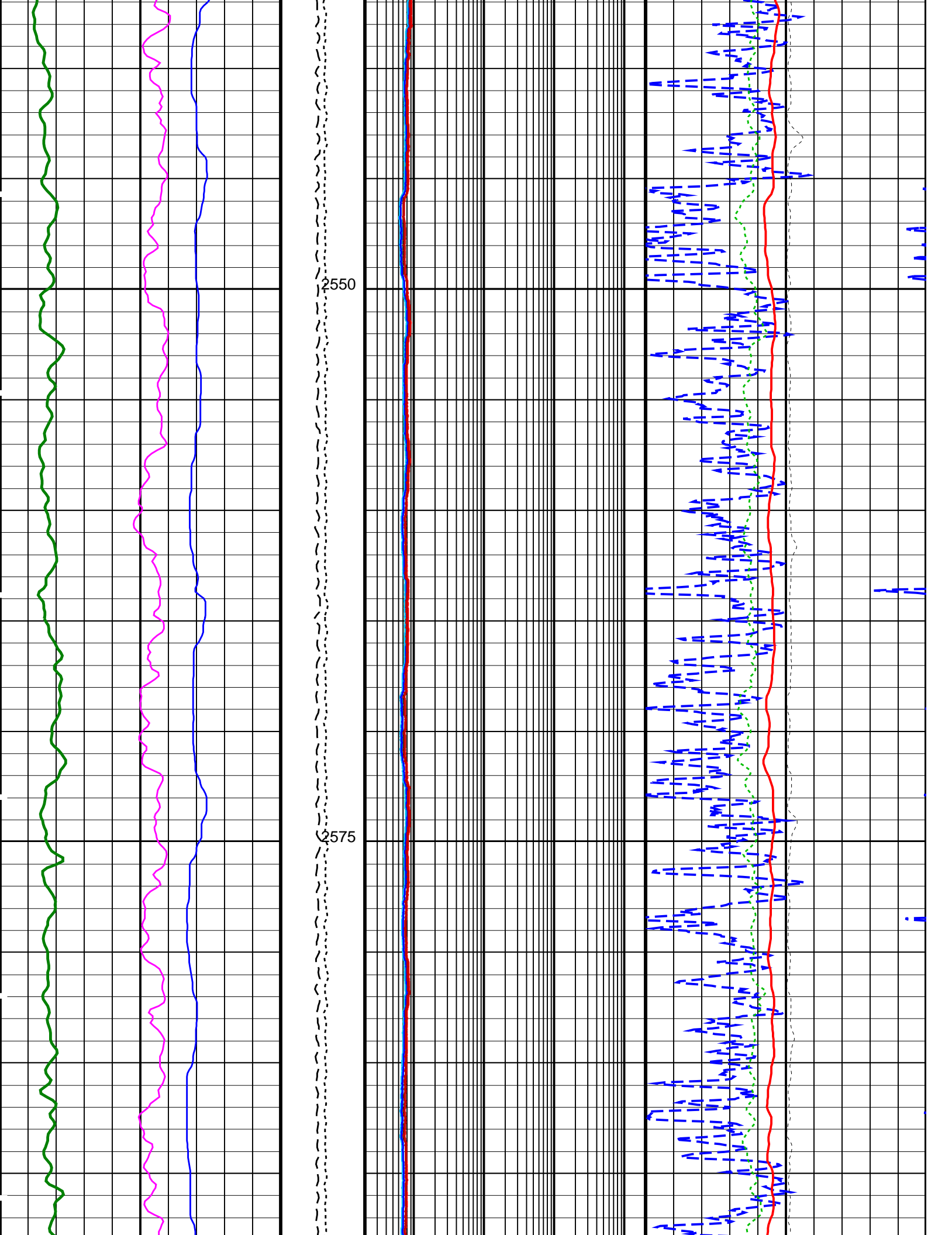


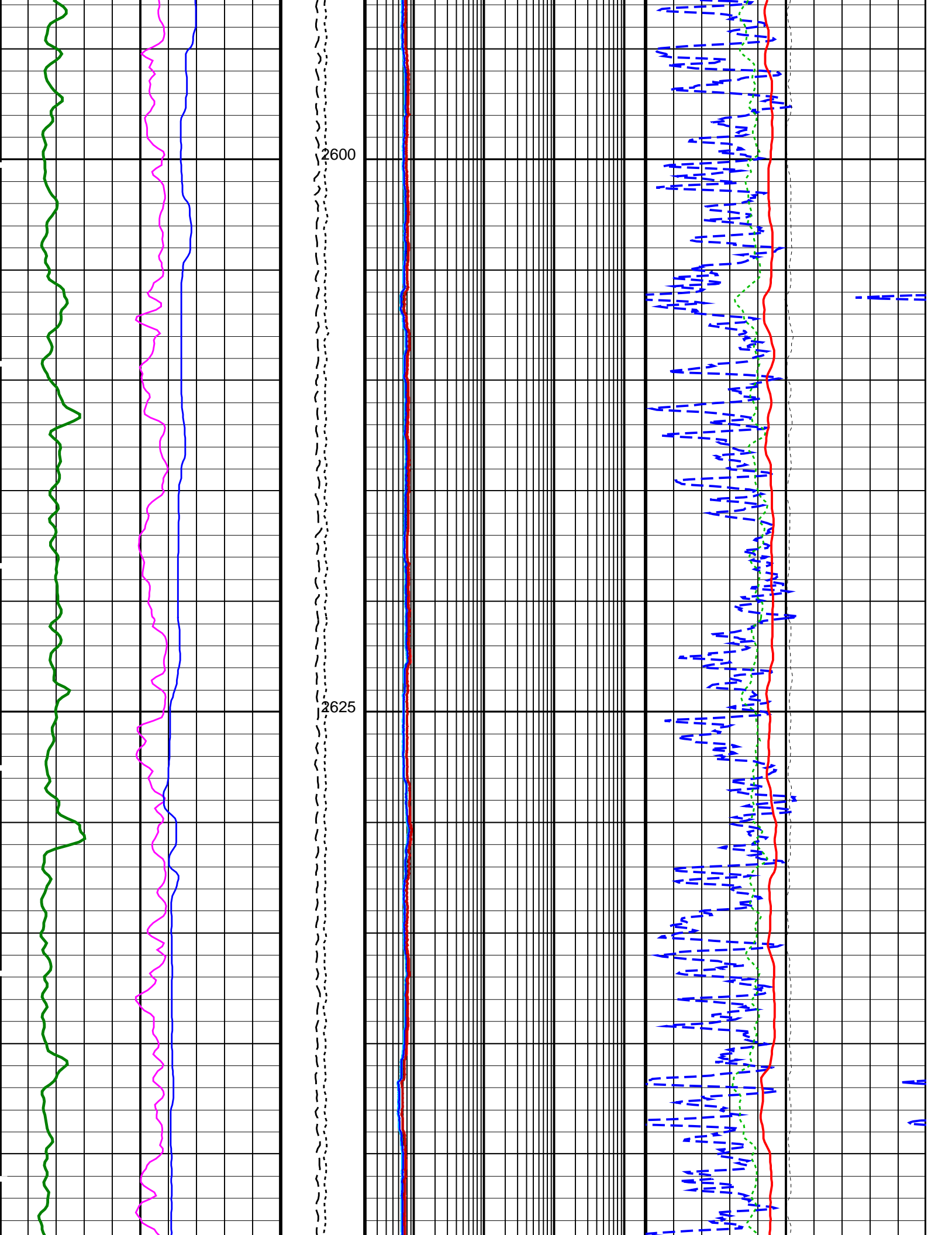


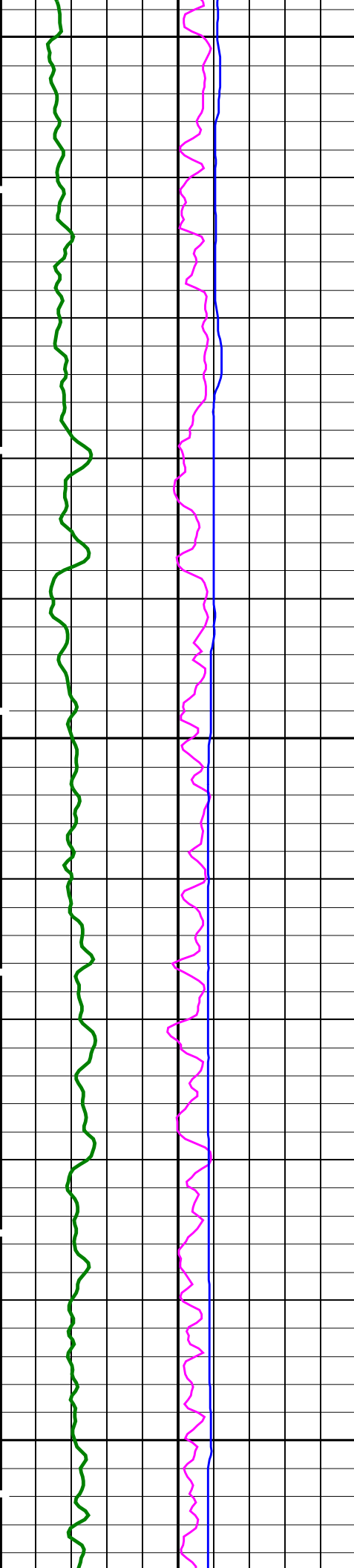








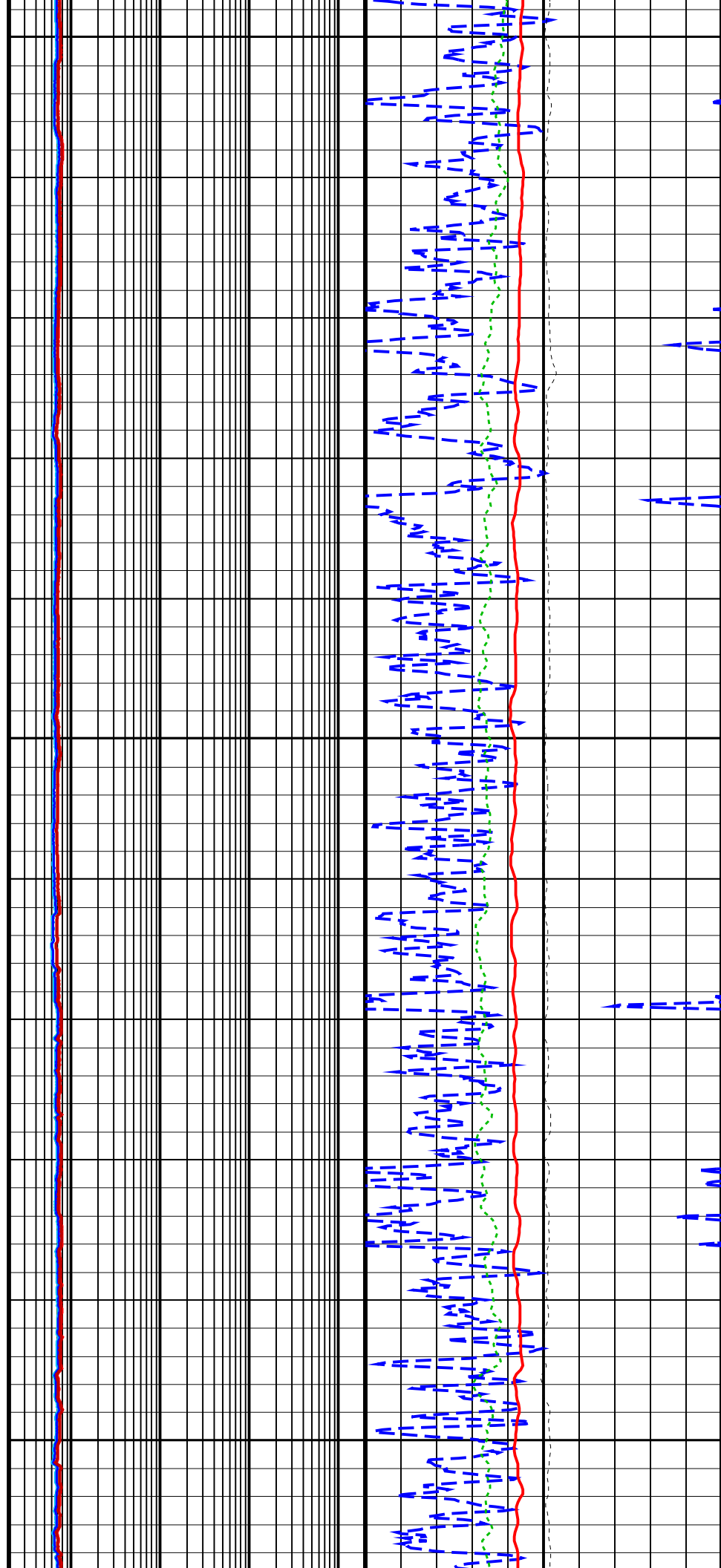


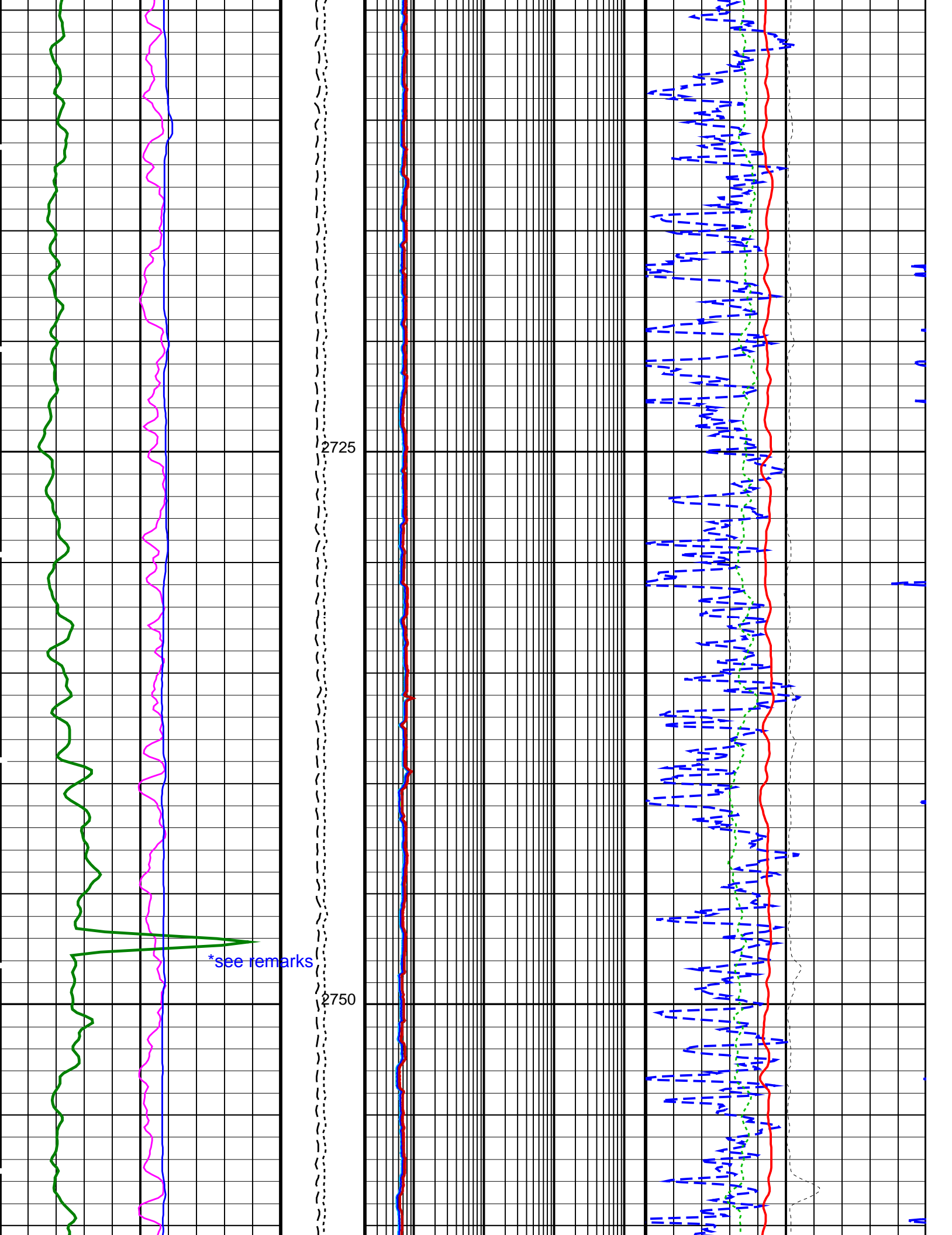


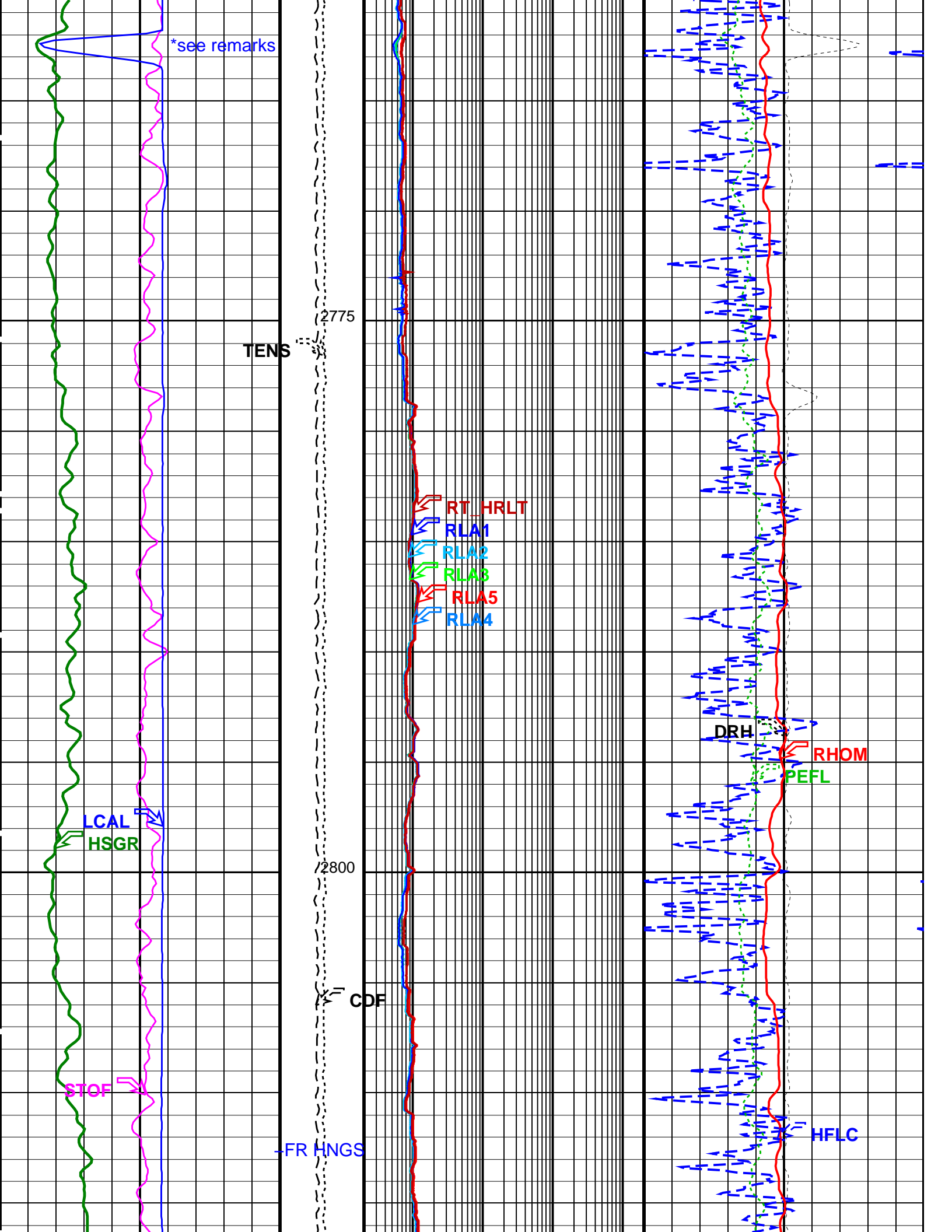
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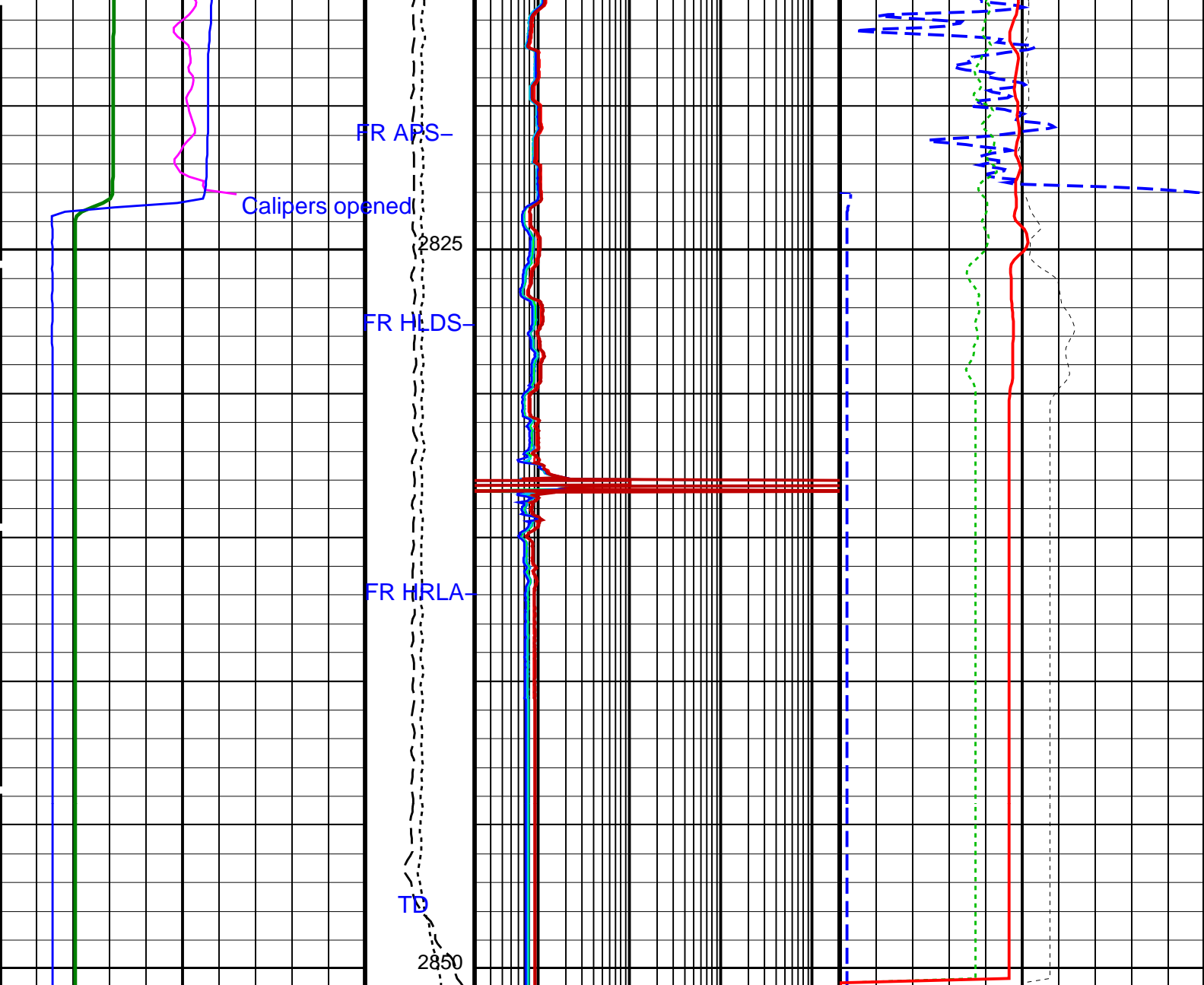
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2700









<div>HLDS Caliper (LCAL)</div> <div>(IN)</div> <div>020</div>	<div>Tension</div> <div>(TENS)</div> <div>(LBF)</div> <div>100000</div>	<div>HRLT Resistivity 4 (RLA4)</div> <div>(OHMM)</div> <div>0.22000</div>	<div>APS HR Near/Far Corrected Limestone Porosity (HFLC)</div> <div>(PU)</div> <div>1000</div>
<div>APS Effective Standoff in Limestone (STOF)</div> <div>(IN)</div> <div>-55</div>	<div>Calibrated Downhole Force (CDF)</div> <div>(LBF)</div> <div>30000</div>	<div>HRLT Resistivity 5 (RLA5)</div> <div>(OHMM)</div> <div>0.22000</div>	<div>HLDS Long Spaced Photoelectric Effect (PEFL)</div> <div>(-----)</div> <div>010</div>
<div>HNGS Spectroscopy Gamma Ray (HSGR)</div> <div>(GAPI)</div> <div>0100</div>		<div>HRLT Resistivity 3 (RLA3)</div> <div>(OHMM)</div> <div>0.22000</div>	<div>HLDS Bulk Density (RHOM)</div> <div>(G/C3)</div> <div>04</div>
<div>Uplog 2</div>		<div>HRLT Resistivity 2 (RLA2)</div> <div>(OHMM)</div> <div>0.22000</div>	<div>HLDS Bulk Density Correction (DRH)</div> <div>(G/C3)</div> <div>-0.250.25</div>
		<div>HRLT Resistivity 1 (RLA1)</div> <div>(OHMM)</div> <div>0.22000</div>	
		<div>HRLT True Resistivity (RT_HRLT)</div> <div>(OHMM)</div> <div>0.22000</div>	

PIP SUMMARY

Parameters

DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	10.6916	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	LCAL	
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	AUTO	
LOOPMOD1	HRLT Mode 1 Loop Mode	AUTO	
LOOPMOD2	HRLT Mode 2 Loop Mode	AUTO	
LOOPMOD3	HRLT Mode 3 Loop Mode	AUTO	
LOOPMOD4	HRLT Mode 4 Loop Mode	AUTO	
LOOPMOD5	HRLT Mode 5 Loop Mode	AUTO	
LOOPMOD6	HRLT Mode 6 Loop Mode	AUTO	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROCINV	Inversion Selection	ON	
PROCNFL	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	20	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	2.6	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1500	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	
APS-C: Accelerator-Porosity Tool			
	APS Software Version	5	
AASD	APS Thermal and Array Detectors High Voltage Setting	1976.24	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2067.55	V
AHCS	APS Holesize Correction Source	GCSE	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1737.8	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHFL_APS	APS TNPH Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC
BSCO_APS	APS TNPH Borehole Salinity Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source Correction Option	MEASURED	
FSAL	Formation Salinity	-50000	PPM
FSCO_APS	APS TNPH Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	LCAL	
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_APS	APS TNPH Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	

ISSBAR	Barite Mud Switch	NOBARITE		
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
MCCO_APS	APS TNPH Mud Cake Correction Option	NO		
MCOR_APS	APS TNPH Mud Correction	NATU		
MWCO_APS	APS TNPH Mud Weight Correction Option	YES		
NARC	APS Near/Array Calibration Ratio	1.08341		
NFRC	APS Near/Far Calibration Ratio	0.942369		
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	NO		
SHT	Surface Hole Temperature	20		DEGC
TNCO_APS	APS TNPH Computation Option	YES		
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)	7		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	LCAL		
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	-0.000965941		
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	20		DEGC
TPOS	Tool Position	ECCE		
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.05247		
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03733		
System and Miscellaneous				
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth		
BS	Bit Size	11.438		IN
BSAL	Borehole Salinity	38000.00		PPM
CSIZ	Current Casing Size	5.500		IN
CWEI	Casing Weight	168.00		LB/F
DFD	Drilling Fluid Density	1.02		G/C3
FLEV	Fluid Level	-50000.00		M
MST	Mud Sample Temperature	23.00		DEGC
PBVSADP	Use alternate depth channel for playback	NO		
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000		OHMM
RW	Resistivity of Connate Water	1.0000		OHMM
TD	Total Depth	9345.14		FT
TDD	Total Depth - Driller	2848.40		M
TDL	Total Depth - Logger	2848.40		M
TWS	Temperature of Connate Water Sample	37.78		DEGC

Format: TripleCombo Vertical Scale: 1:200 Graphics File Created: 04-Aug-2021 06:19

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	DTC-H	19C0-187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_012LUP	FN:16	PRODUCER	04-Aug-2021 06:19
BACKUP	MSS_LDEO_HRLA_LDL_012LUP	FN:17	PRODUCER	04-Aug-2021 06:19

Output DLIS Files

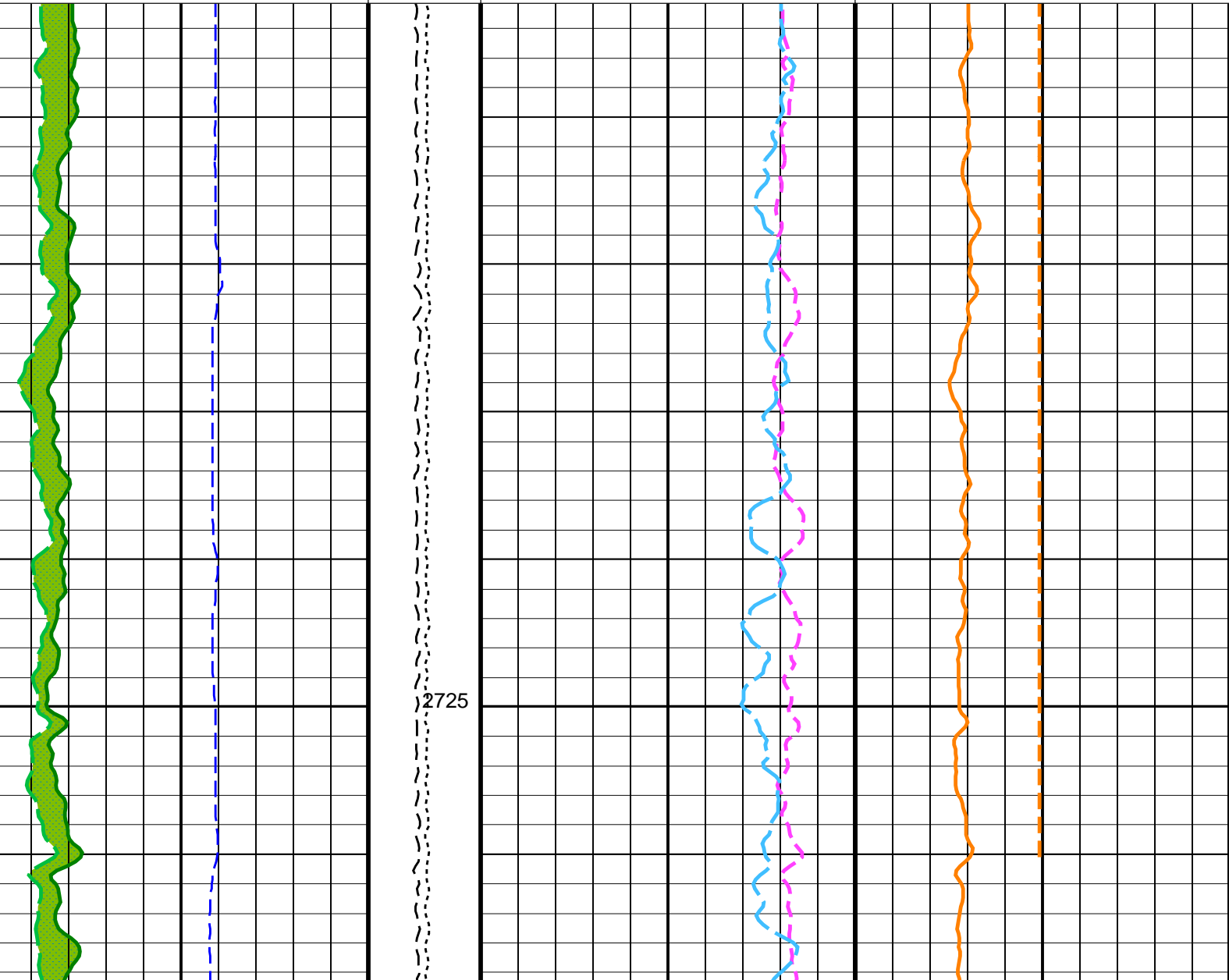
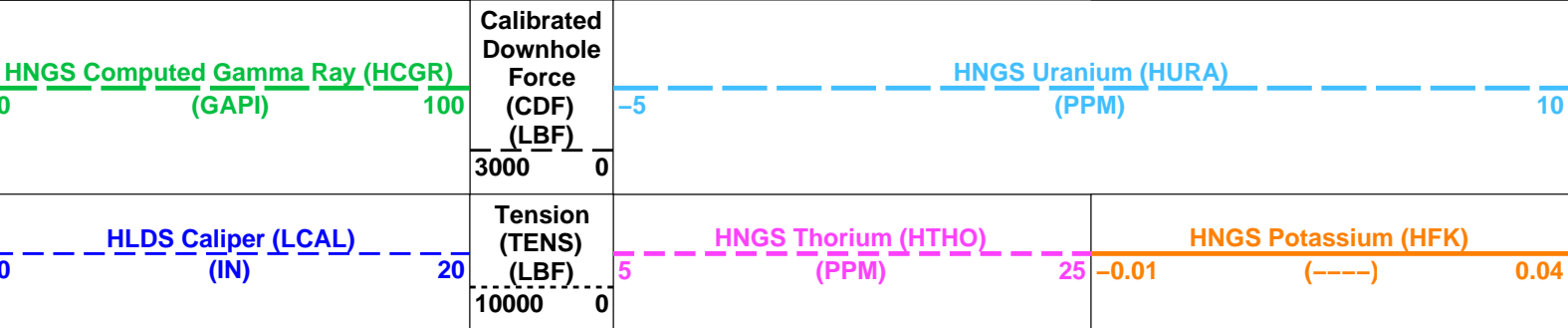
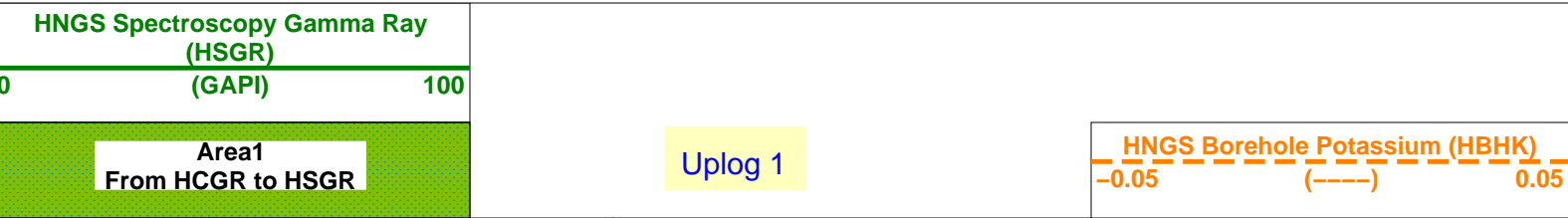
DEFAULT	MSS_LDEO_HRLA_LDL_011LUP	FN:14	PRODUCER	04-Aug-2021 05:32	2850.6 M	2701.1 M
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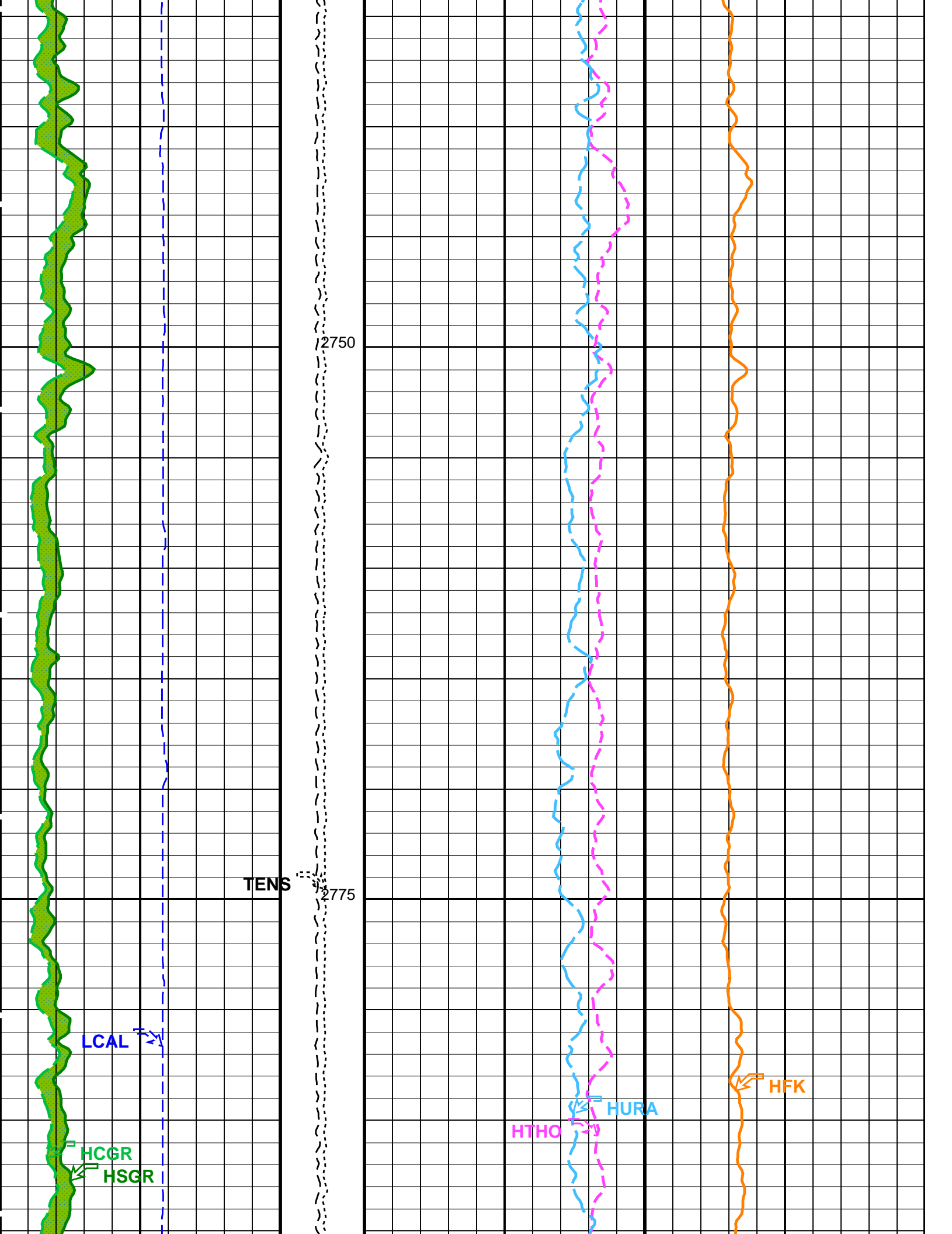
OP System Version: 19C0-187

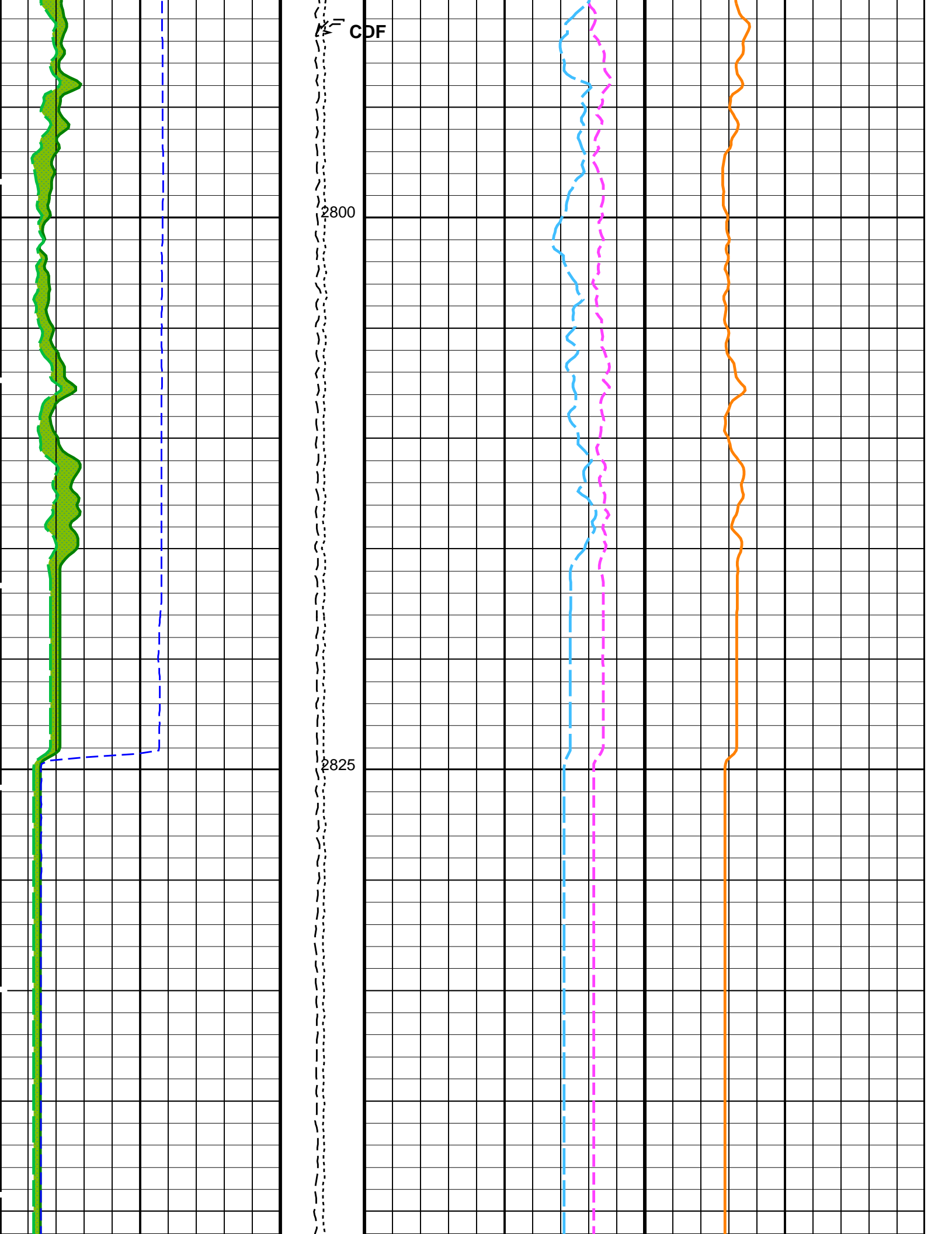
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HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

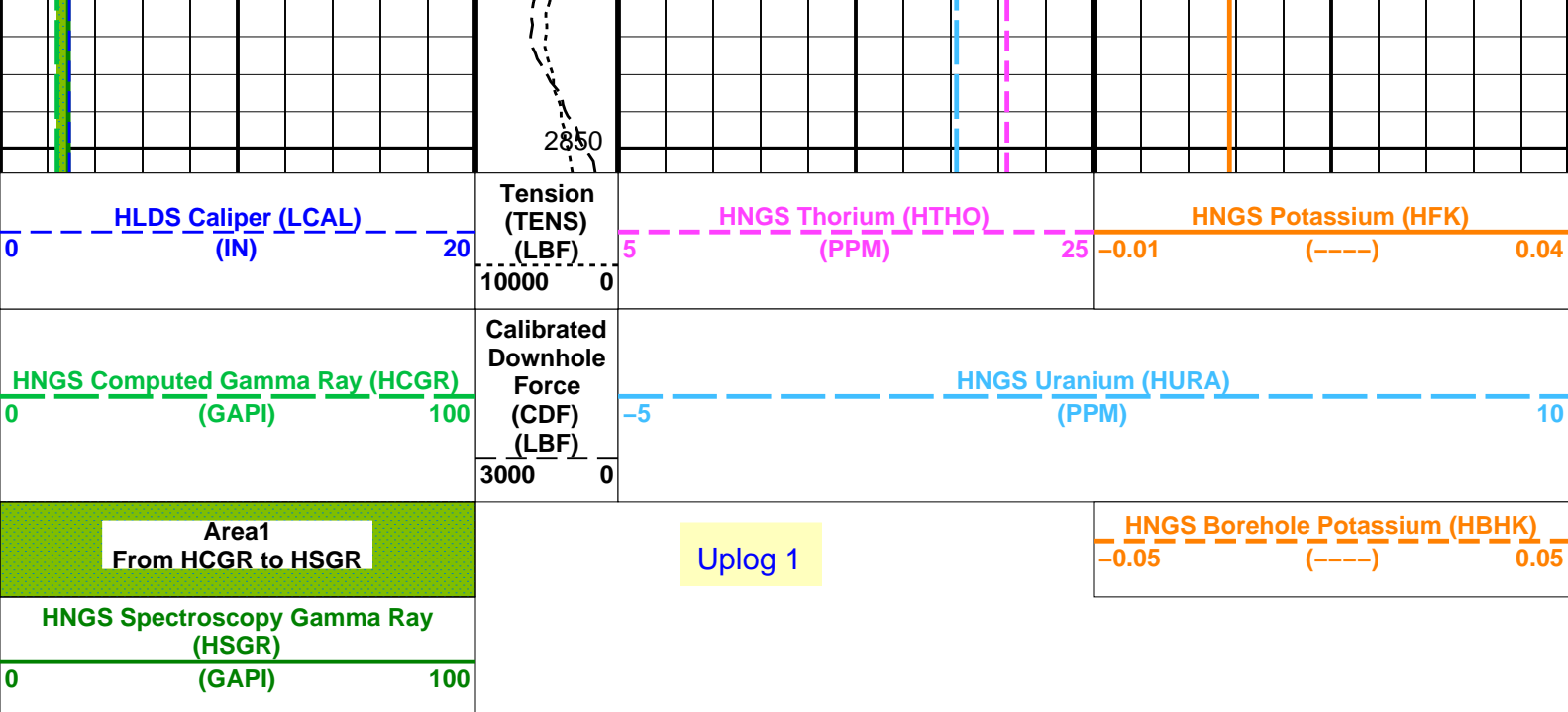
PIP SUMMARY

 Time Mark Every 60 S









PIP SUMMARY

Time Mark Every 60 S

Parameters			
DLIS Name	Description	Value	
BHS	HRLT-B: High Resolution Laterolog Array – B		
GCSE	Borehole Status	OPEN	
	Generalized Caliper Selection	LCAL	
BHS	APS-C: Accelerator-Porosity Tool		
GCSE	Borehole Status	OPEN	
	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	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	-0.0011826	
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	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	1.01848	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07467	
	System and Miscellaneous		
BS	Bit Size	11.438	IN

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 04-Aug-2021 05:32

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	DTC-H	19C0-187

Output DLIS Files

Company: International Ocean Discovery Program	Well: Expedition 395C, Site U1564C
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Output DLIS Files

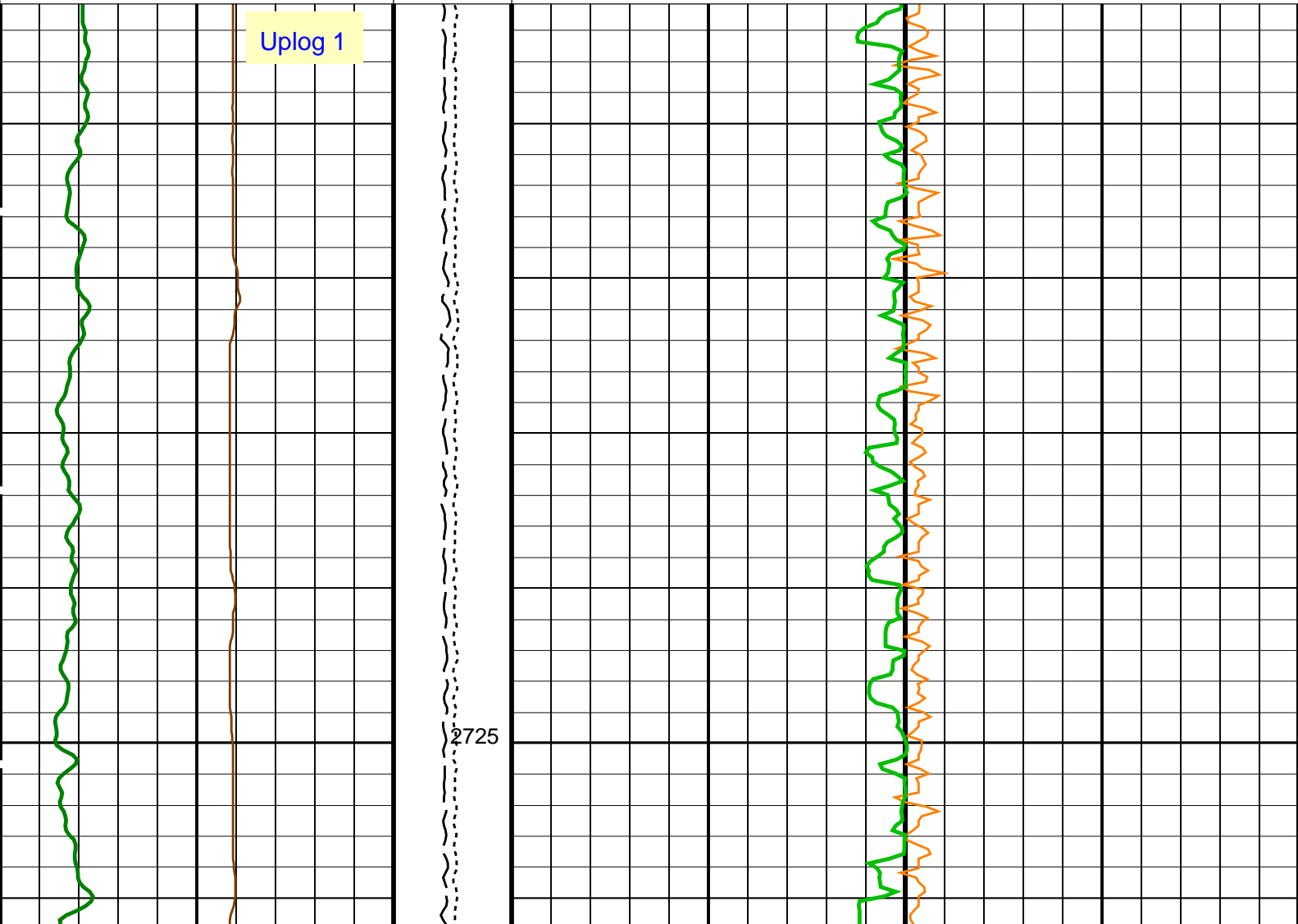
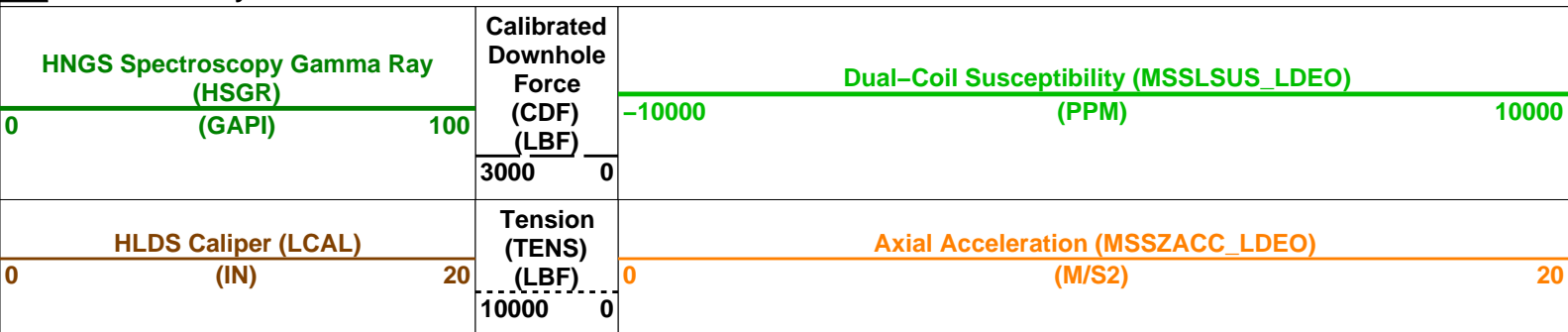
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BACKUP	MSS_LDEO_HRLA_LDL_011LUP	FN:15	PRODUCER	04-Aug-2021 05:32	2850.6 M	2701.1 M

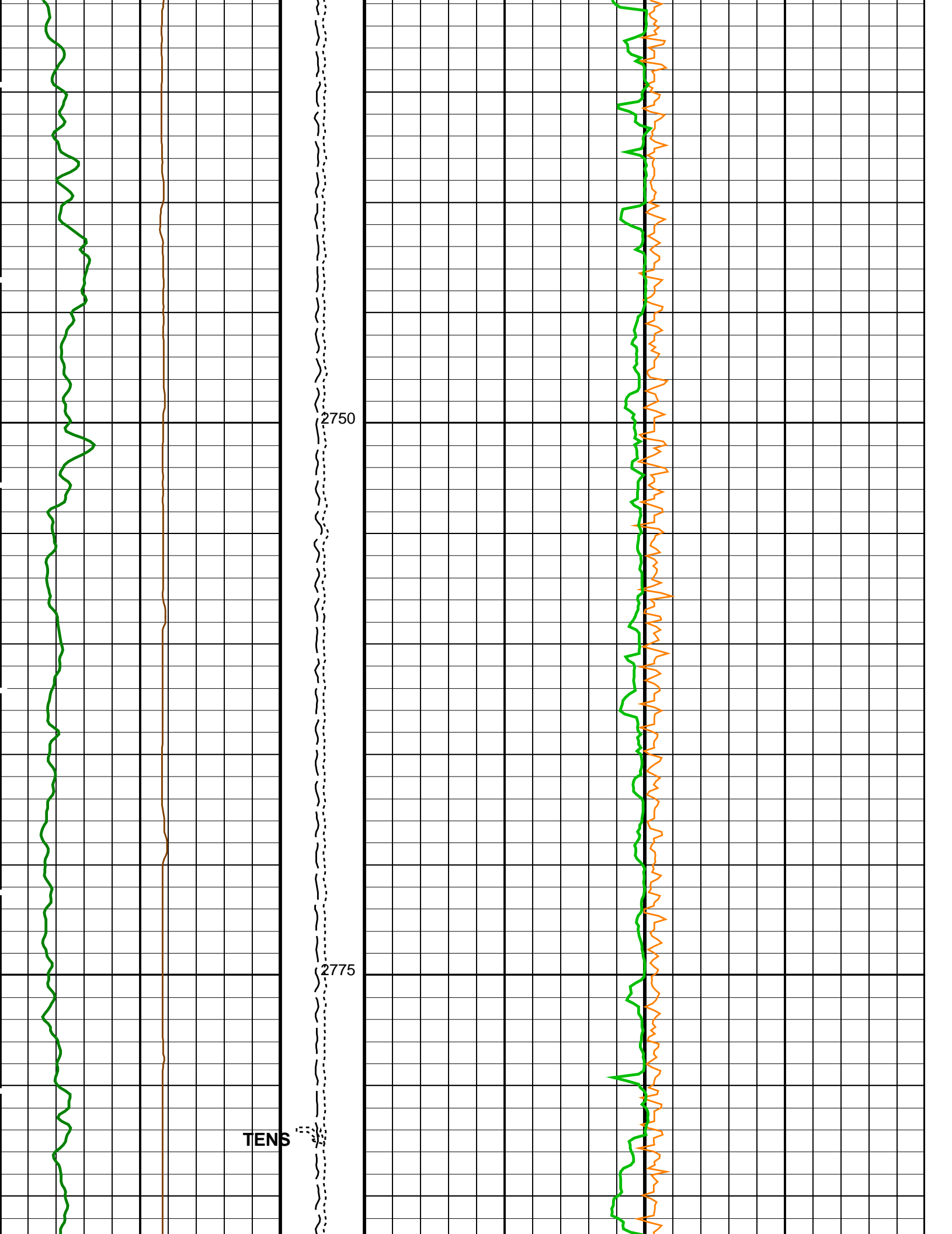
OP System Version: 19C0-187

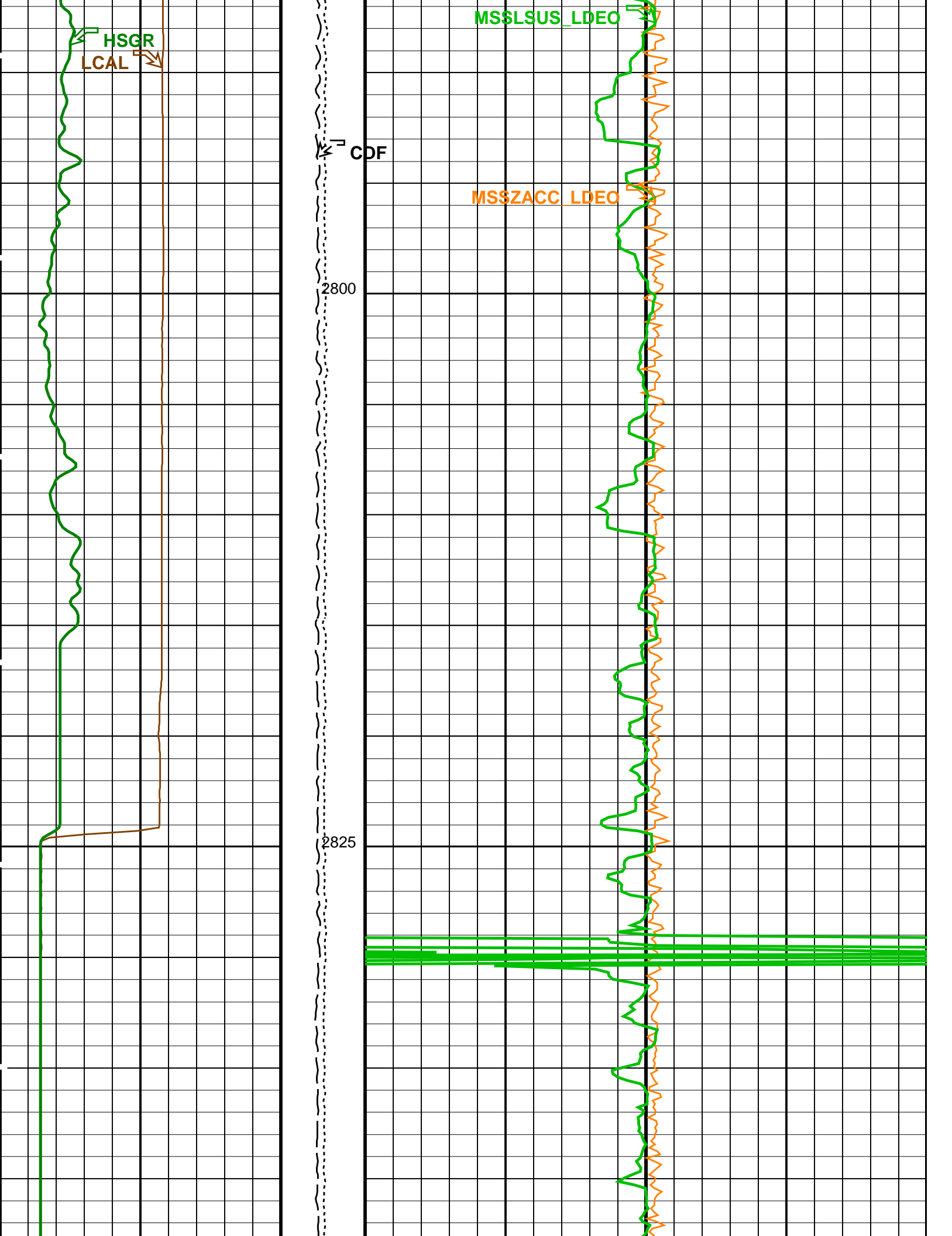
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	DTC-H	19C0-187

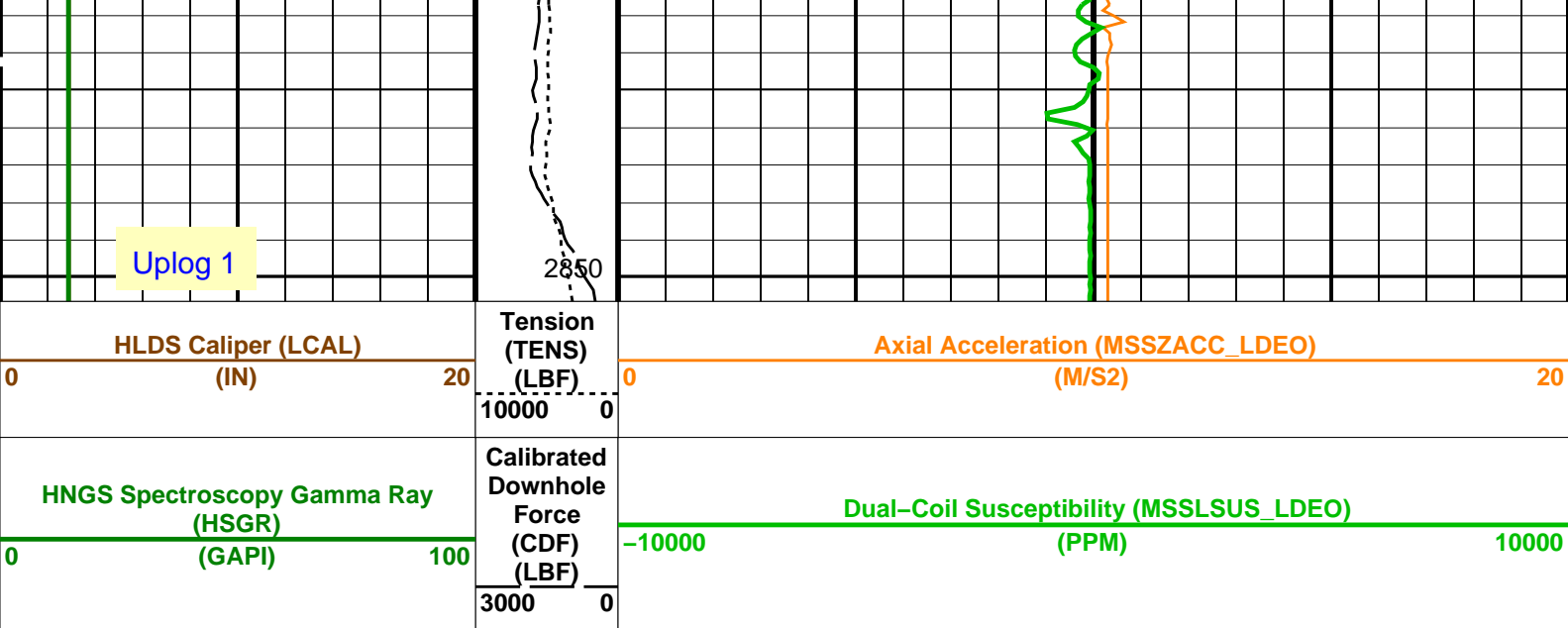
PIP SUMMARY

Time Mark Every 60 S





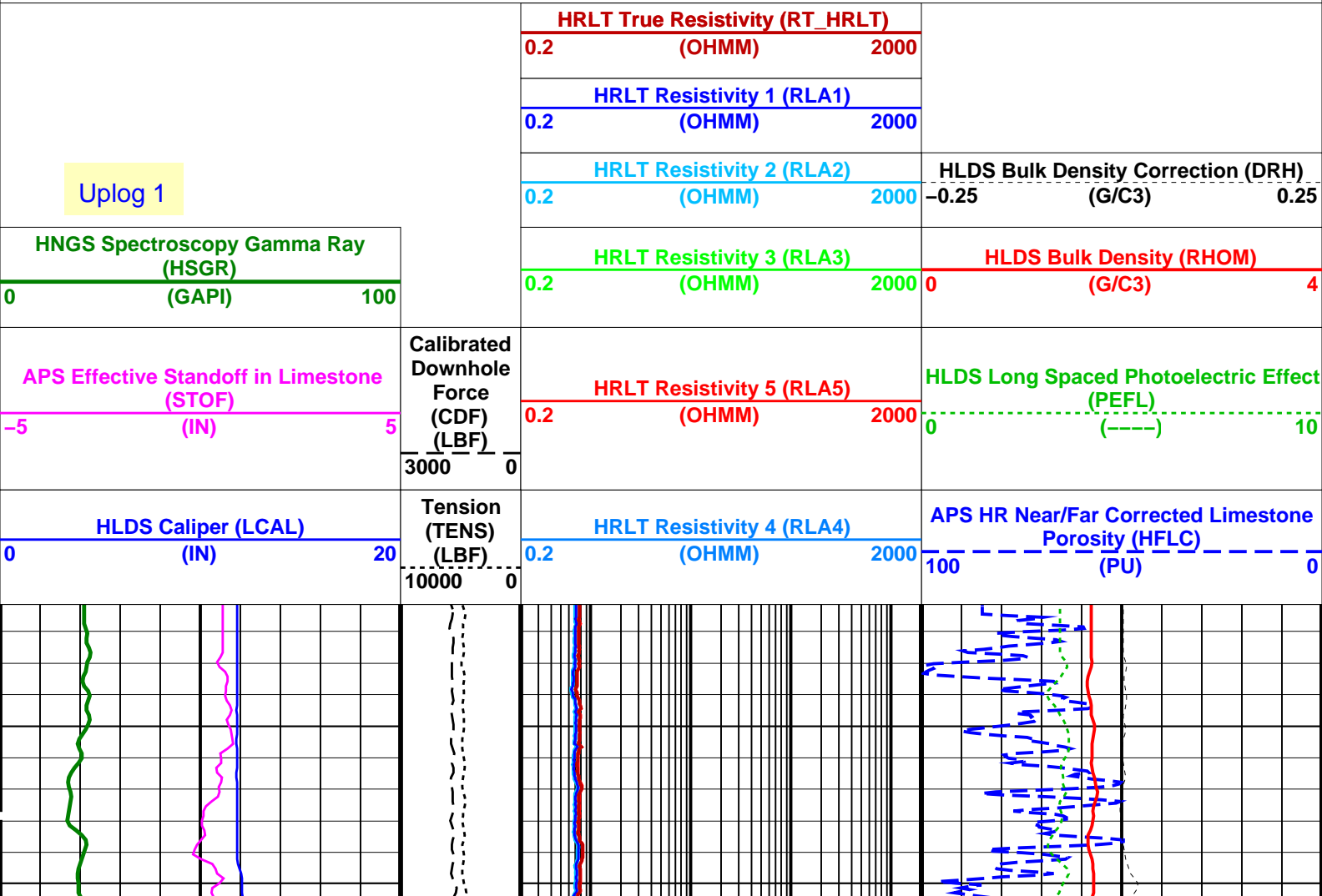


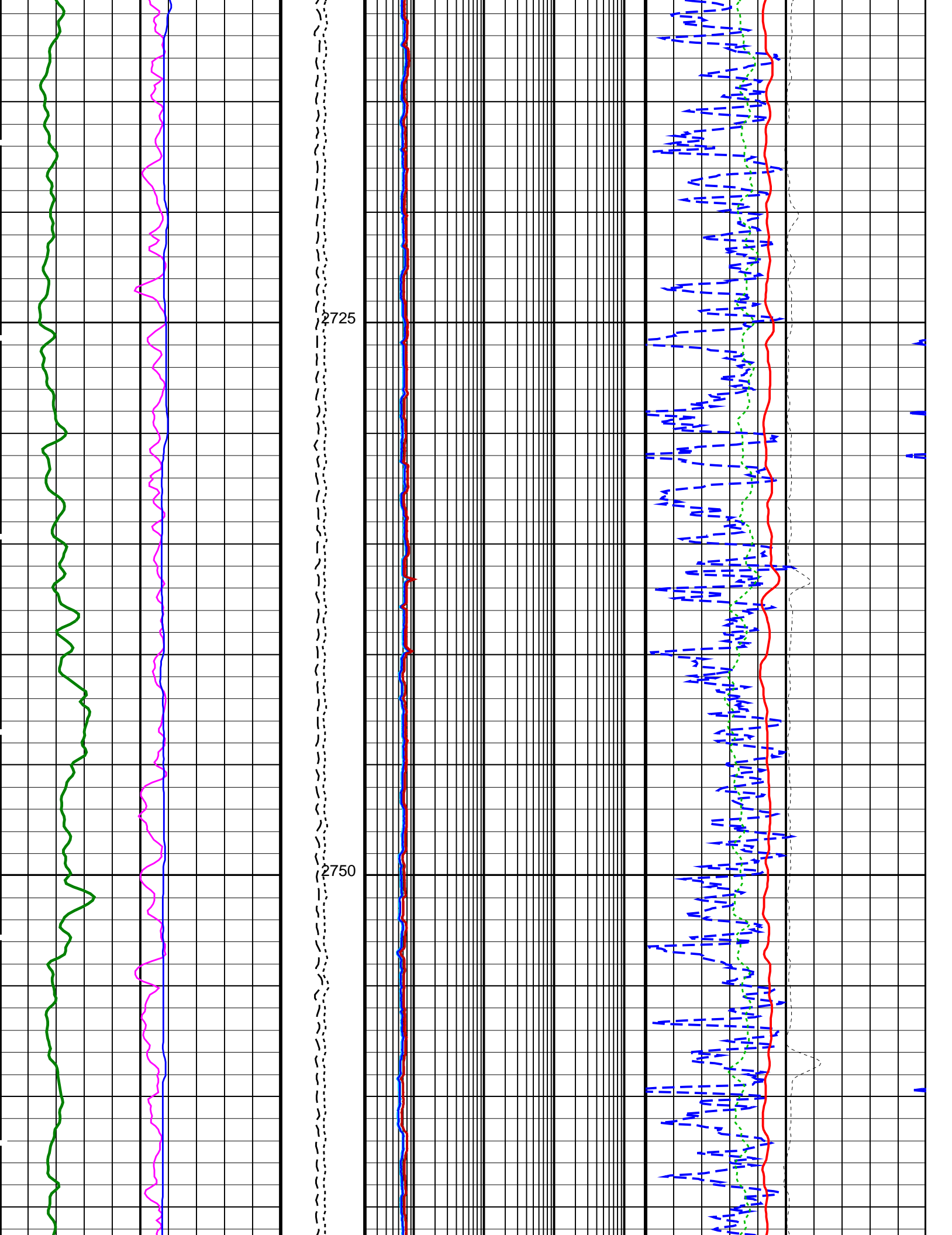


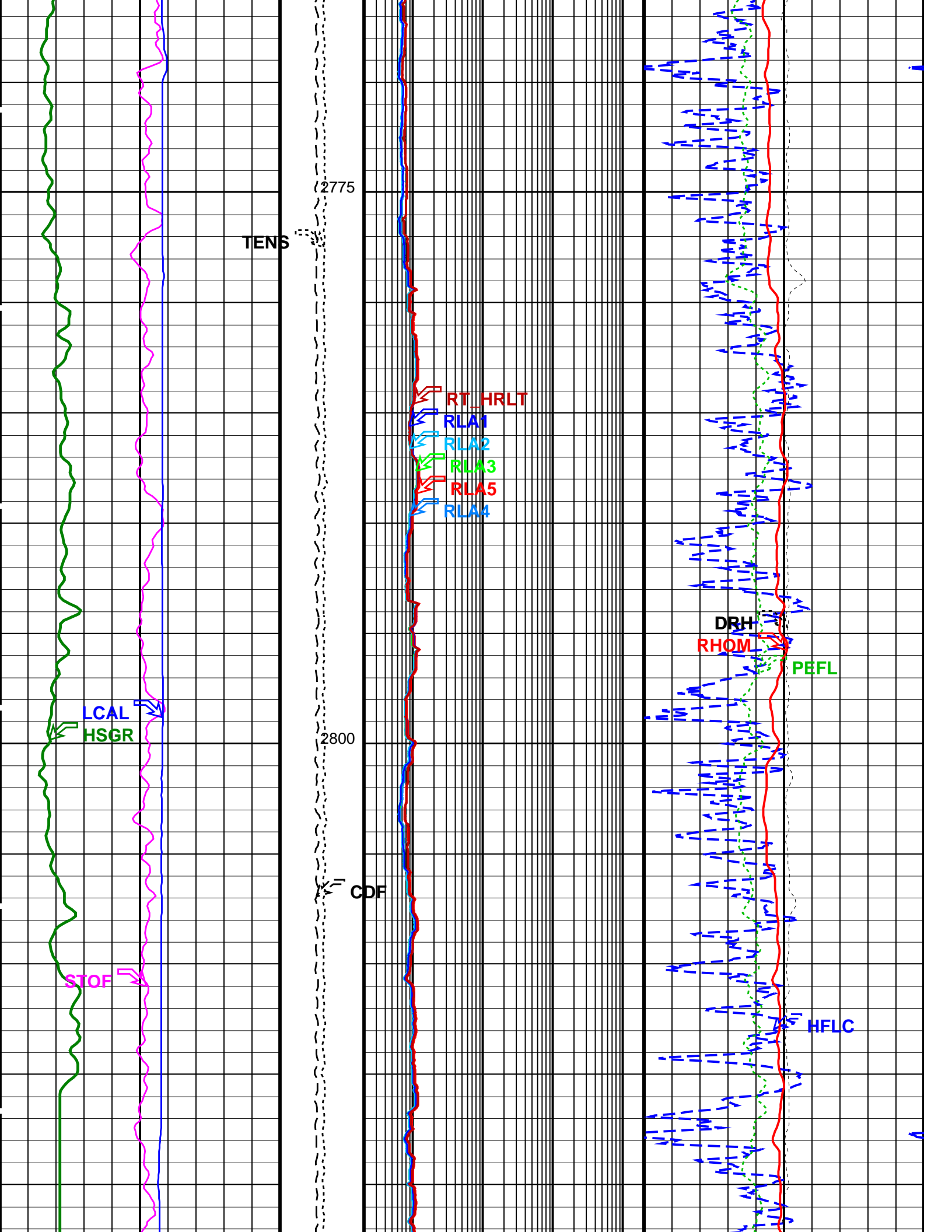
Time Mark Every 60 S

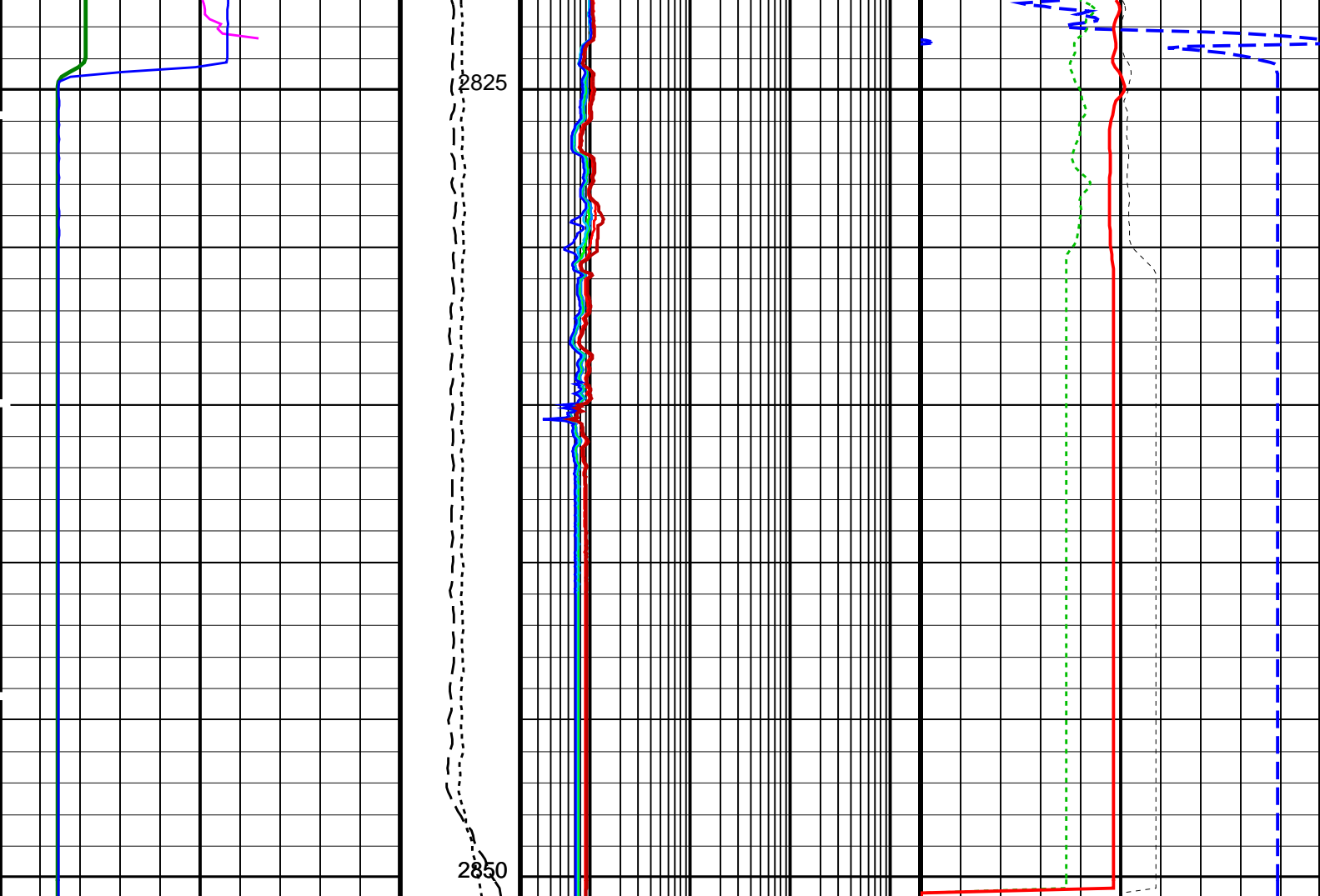
Parameters			
DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW_DONE	
CALTEMP	HRLTB Calibration Temperature	10.6916	DEGC
FREQ0	HRLT Frequency Index for 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	LCAL	
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	AUTO	
LOOPMOD1	HRLT Mode 1 Loop Mode	AUTO	
LOOPMOD2	HRLT Mode 2 Loop Mode	AUTO	
LOOPMOD3	HRLT Mode 3 Loop Mode	AUTO	
LOOPMOD4	HRLT Mode 4 Loop Mode	AUTO	
LOOPMOD5	HRLT Mode 5 Loop Mode	AUTO	
LOOPMOD6	HRLT Mode 6 Loop Mode	AUTO	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
PROGINV	Inversion Selection	ON	
PROCIFL	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	20	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	2.6	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1500	V
PCDL	HLDS LS Data Channel Compensation DAC	22222	

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	
APS-C: Accelerator-Porosity Tool			
	APS Software Version	5	
AASD	APS Thermal and Array Detectors High Voltage Setting	1976.24	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2067.55	V
AHCS	APS Holesize Correction Source	GCSE	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1737.8	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHFL_APS	APS TNPH Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	DEGC
BSCO_APS	APS TNPH Borehole Salinity Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source Correction Option	MEASURED	
FSAL	Formation Salinity	-50000	PPM
FSCO_APS	APS TNPH Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	LCAL	
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_APS	APS TNPH Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	NO	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.08341	
NFRC	APS Near/Far Calibration Ratio	0.942369	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	NO	
SHT	Surface Hole Temperature	20	DEGC
TNCO_APS	APS TNPH Computation Option	YES	
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)	7	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	LCAL	
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	-0.0011826	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.01848	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07467	
System and Miscellaneous			
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	38000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.02	G/C3
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	23.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	9345.14	FT
TDD	Total Depth - Driller	2848.40	M









HLDS Caliper (LCAL) (IN)	Tension (TENS) (LBF)	HRLT Resistivity 4 (RLA4) (OHMM)	APS HR Near/Far Corrected Limestone Porosity (HFLC) (PU)
020	100000	0.22000	1000
APS Effective Standoff in Limestone (STOF) (IN)	Calibrated Downhole Force (CDF) (LBF)	HRLT Resistivity 5 (RLA5) (OHMM)	HLDS Long Spaced Photoelectric Effect (PEFL) (----
-55	30000	0.22000	010
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)		HRLT Resistivity 3 (RLA3) (OHMM)	HLDS Bulk Density (RHOM) (G/C3)
0100		0.22000	04
Uplug 1		HRLT Resistivity 2 (RLA2) (OHMM)	HLDS Bulk Density Correction (DRH) (G/C3)
		0.22000	-0.250.25
		HRLT Resistivity 1 (RLA1) (OHMM)	
		0.22000	
		HRLT True Resistivity (RT_HRLT) (OHMM)	
		0.22000	

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)	7 DEGC
CALSTAT	HRLTB Calibration Status	SHALLOW DONE

CALTEMP	HRTB Calibration Temperature	10.6916	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	LCAL	
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	AUTO	
LOOPMOD1	HRLT Mode 1 Loop Mode	AUTO	
LOOPMOD2	HRLT Mode 2 Loop Mode	AUTO	
LOOPMOD3	HRLT Mode 3 Loop Mode	AUTO	
LOOPMOD4	HRLT Mode 4 Loop Mode	AUTO	
LOOPMOD5	HRLT Mode 5 Loop Mode	AUTO	
LOOPMOD6	HRLT Mode 6 Loop Mode	AUTO	
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	20	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	2.6	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1500	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	
APS-C: Accelerator-Porosity Tool			
AASD	APS Software Version	5	
ADSO	APS Thermal and Array Detectors High Voltage Setting	1976.24	V
AFSD	APS Array Detectors Data Source Switch	Both	
AHCS	APS Far Detector High Voltage Setting	2067.55	V
AHSS	APS Holesize Correction Source	GCSE	
AMTY	APS Holesize Correction Switch	ON	
ANSO	APS Environmental Corrections Mud Type	WaterBaseBarite	
ASOS	APS Near Detector High Voltage Setting	1737.8	V
ATSS	APS Standoff Correction Switch	ON	
BHFL_APS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHS	APS TNPH Borehole Fluid Type	WATER	
BHT	Borehole Status	OPEN	
BSCO_APS	Bottom Hole Temperature (used in calculations)	7	DEGC
DPPM	APS TNPH Borehole Salinity Correction Option	NO	
DSCO_APS	Density Porosity Processing Mode	HIRS	
FSAL	APS TNPH Density Source Correction Option	MEASURED	
FSCO_APS	Formation Salinity	-50000	PPM
GCSE	APS TNPH Formation Salinity Correction Option	NO	
GDEV	Generalized Caliper Selection	LCAL	
GGRD	Average Angular Deviation of Borehole from Normal	0	DEG
GRSE	Geothermal Gradient	0.018227	DC/M
GTSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
HSCO_APS	Generalized Temperature Selection	LINEAR_ESTIMATE	
ISSBAR	APS TNPH Hole Size Correction Option	YES	
MATR	Barite Mud Switch	NOBARITE	
MCCO_APS	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCOR_APS	APS TNPH Mud Cake Correction Option	NO	
MWCO_APS	APS TNPH Mud Correction	NATU	
NARC	APS TNPH Mud Weight Correction Option	YES	
NFRC	APS Near/Array Calibration Ratio	1.08341	
PTCO_APS	APS Near/Far Calibration Ratio	0.942369	
SHT	APS TNPH Pressure/Temperature Correction Option	NO	
TNCO_APS	Surface Hole Temperature	20	DEGC
	APS TNPH Computation Option	YES	

INCO_APS	APS INPH Computation Option	YES	
HNGBA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGB Detector 1 Barite Constant	1	
BAR2	HNGB Detector 2 Barite Constant	1	
BHK	HNGB Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	7	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	HNGB Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
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	HNGB Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGB Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGB Borehole Potassium Running Average	-0.0011826	
HALF	HNGB Alpha Filter Length	60	IN
HCRB	HNGB Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGB Processing Enable	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGB Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGB Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGB Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGB Detector 1 Variable Barite Factor Running Average	1.01848	
VBA2	HNGB Detector 2 Variable Barite Factor Running Average	1.07467	
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	38000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.02	G/C3
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	23.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	9345.14	FT
TDD	Total Depth - Driller	2848.40	M
TDL	Total Depth - Logger	2848.40	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: TripleCombo Vertical Scale: 1:200 Graphics File Created: 04-Aug-2021 05:32

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
HNGBA	19C0-187	DTC-H	19C0-187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_011LUP	FN:14	PRODUCER	04-Aug-2021 05:32
BACKUP	MSS_LDEO_HRLA_LDL_011LUP	FN:15	PRODUCER	04-Aug-2021 05:32

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01							
Before: 4-Aug-2021 2:31 After: 4-Aug-2021 8:28							
HRLT M0-M1 Voltage Plus - 0	0	N/A	-318.6	-318.4	0.1379	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-330.1	-329.7	0.4378	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-337.4	-337.5	-0.02023	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-328.4	-328.0	0.4249	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-319.8	-319.6	0.2047	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	321.5	321.2	0.1600	9.681	UV

HRLT M0-M1 Voltage Plus - 5	0	N/A	-321.3	-321.3	0.1690	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	319.3	318.9	-0.3454	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: 4-Aug-2021 2:31 After: 4-Aug-2021 8:28

HRLT M1-M2 Voltage Plus - 0	0	N/A	1739	1737	-1.490	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1809	1805	-4.675	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1841	1841	-0.6823	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1791	1787	-3.458	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1742	1740	-1.729	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1753	1750	-2.154	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1758	-1754	3.709	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: 4-Aug-2021 2:31 After: 4-Aug-2021 8:28

HRLT M2-M3 Voltage Plus - 0	0	N/A	1731	1729	-2.097	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1812	1806	-5.256	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1846	1845	-1.644	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1799	1795	-3.787	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1745	1742	-2.808	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1756	1754	-2.256	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1749	-1745	4.493	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: 4-Aug-2021 2:31 After: 4-Aug-2021 8:28

HRLT A3-A4 Voltage Plus - 0	0	N/A	68600	68560	-40.14	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	71630	71470	-159.1	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	73280	73260	-14.80	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	71670	71560	-111.6	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	69470	69400	-64.84	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	69920	69860	-62.13	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-68170	-68070	103.1	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: 4-Aug-2021 2:31 After: 4-Aug-2021 8:28

HRLT A4-A5 Voltage Plus - 0	0	N/A	68680	68640	-40.77	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	71840	71690	-152.7	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	73460	73450	-13.14	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	71820	71720	-101.7	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	69580	69520	-63.51	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	70010	69950	-58.90	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-68380	-68280	102.3	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: 4-Aug-2021 2:31 After: 4-Aug-2021 8:28

HRLT A5-A6 Voltage Plus - 0	0	N/A	68530	68500	-33.24	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	71690	71520	-166.4	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	73320	73320	-4.938	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	71670	71560	-108.5	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	69440	69380	-55.48	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	69900	69840	-54.36	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-68220	-68120	104.9	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: 4-Aug-2021 2:31 After: 4-Aug-2021 8:28

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68070	-68030	35.94	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-71490	-71330	155.6	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-73160	-73150	8.602	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-71580	-71490	94.02	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-69400	-69340	58.08	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69850	-69790	51.30	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	67980	67890	-99.77	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: 4-Aug-2021 2:31 After: 4-Aug-2021 8:28

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68110	-68070	38.34	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-71570	-71430	146.9	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-73250	-73240	9.391	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-71660	-71550	104.1	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-69450	-69390	62.55	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69880	-69830	46.98	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	68070	67980	-94.01	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: 4-Aug-2021 2:31 After: 4-Aug-2021 8:28								
HRLT Source Current Plus – 0	0	N/A	284.1	284.1	-0.07611	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: 4-Aug-2021 2:31 After: 4-Aug-2021 8:28								
HRLT Vertical Voltage PI – 0	0	N/A	–320.5	–320.4	0.1011	9.681	UV	
HRLT Vertical Voltage PI – 1	0	N/A	–325.2	–324.5	0.6729	9.681	UV	
HRLT Vertical Voltage PI – 2	0	N/A	–331.0	–331.1	–0.07721	9.681	UV	
HRLT Vertical Voltage PI – 3	0	N/A	–320.4	–319.9	0.4337	9.681	UV	
HRLT Vertical Voltage PI – 4	0	N/A	–309.0	–308.8	0.1753	9.681	UV	
HRLT Vertical Voltage PI – 5	0	N/A	–325.6	–325.4	0.2318	9.681	UV	
HRLT Vertical Voltage PI – 6	0	N/A	327.0	326.5	–0.5411	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: 1–Aug–2021 20:19 Before: 4–Aug–2021 2:34 After: 2–Aug–2021 2:09								
SS Cs Resolution Bkg	9.000	7.758	7.786	7.708	–0.07793	1.800	%	
LS Cs Resolution Bkg	9.000	7.955	7.993	8.052	0.05913	1.800	%	
LSW1 Background	100.0	71.23	71.54	71.13	–0.4128	3.000	CPS	
LSW2 Background	100.0	64.02	64.06	64.54	0.4741	3.000	CPS	
LSW3 Background	200.0	143.0	145.8	146.3	0.5728	6.000	CPS	
LSW4 Background	250.0	179.2	180.2	180.2	0.08192	7.500	CPS	
LSW5 Background	600.0	423.2	422.8	422.2	–0.5161	18.00	CPS	
SSW1 Background	100.0	68.38	67.75	68.58	0.8276	3.000	CPS	
SSW2 Background	200.0	118.4	117.6	118.0	0.4768	6.000	CPS	
SSW3 Background	500.0	330.2	329.3	328.5	–0.8451	15.00	CPS	
SSW4 Background	270.0	177.7	177.5	176.4	–1.050	8.100	CPS	
SSW5 Background	200.0	127.9	126.5	127.1	0.6057	6.000	CPS	

Hostile Litho–Density Sonde Wellsite Calibration – Aluminum Measurement

Master: 2-Aug-2021 1:54								
LSW1 Aluminum	600.0	431.0	N/A	N/A	N/A	N/A	CPS	
LSW2 Aluminum	900.0	643.7	N/A	N/A	N/A	N/A	CPS	
LSW3 Aluminum	1100	778.5	N/A	N/A	N/A	N/A	CPS	
LSW4 Aluminum	580.0	396.4	N/A	N/A	N/A	N/A	CPS	
LSW5 Aluminum	570.0	359.5	N/A	N/A	N/A	N/A	CPS	
SSW1 Aluminum	2800	2084	N/A	N/A	N/A	N/A	CPS	
SSW2 Aluminum	8000	5812	N/A	N/A	N/A	N/A	CPS	
SSW3 Aluminum	11600	8128	N/A	N/A	N/A	N/A	CPS	
SSW4 Aluminum	5000	3263	N/A	N/A	N/A	N/A	CPS	
SSW5 Aluminum	660.0	374.6	N/A	N/A	N/A	N/A	CPS	

Hostile Litho–Density Sonde Wellsite Calibration – Lithology Measurement

Master: 2-Aug-2021 1:49

LSW1 Iron	400.0	294.6	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	519.6	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	692.2	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	356.5	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	324.3	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1526	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4850	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	7413	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	2975	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	328.7	N/A	N/A	N/A	N/A	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Caliper Calibration

Before: 2-Aug-2021 2:30							
HLDS Caliper Small Ring	12.00	N/A	16.34	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	20.27	N/A	N/A	N/A	IN

Accelerator–Porosity Tool Wellsite Calibration – Detector Background

Master: Calibration out of date 3-May-2021 6:13 Before: 4-Aug-2021 2:37 After: 4-Aug-2021 8:35								
Near Det Bkg Cntrate	30.00	25.16	25.36	24.94	-0.4209	N/A	CPS	
Far Det Bkg Cntrate	30.00	24.05	26.42	23.60	-2.818	N/A	CPS	
Array-1 Det Bkg Cntrate	30.00	23.15	25.86	23.93	-1.935	N/A	CPS	
Array-2 Det Bkg Cntrate	30.00	23.93	22.91	24.08	1.167	N/A	CPS	
Array Therm Det Bkg Cntrate	30.00	26.33	25.03	24.84	-0.1890	N/A	CPS	

Accelerator–Porosity Tool Wellsite Calibration – Calibration Ratios

Master: Calibration out of date 3-May-2021 6:15							
Near/Far Calibration Ratio	0.9250	0.9424	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.083	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.016	N/A	N/A	N/A	N/A	

Accelerator–Porosity Tool Wellsite Calibration – Tank Check

Accelerator-Porosity Tool Wellsite Calibration – Tank Check								
Master: Calibration out of date		3-May-2021	6:16					
Array-1 Standoff Porosity		11.75	11.04	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity		11.75	10.88	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time		6.000	5.997	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down		1.000	0.9943	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down		1.000	0.9896	N/A	N/A	N/A	N/A	
Sigma Formation		27.50	27.71	N/A	N/A	N/A	N/A	CU
Accelerator-Porosity Tool Wellsite Calibration – CCR7 signal boxes								
Master: Calibration out of date		3-May-2021	5:26					
Near Detector Plateau Setting		1650	1738	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting		2000	2068	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting		2000	1976	N/A	N/A	N/A	N/A	V
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check								
Master: Calibration out of date		2-May-2021	10:04	Before: 13-Jun-2021	9:44	After: Calibration out of date	2-May-2021	10:16
Na 511 Peak Loc		40.00	39.25	39.64	39.73	0.09286	1.000	
Na 511 Peak Res		15.50	16.53	14.84	15.11	0.2734	2.000	%
High Voltage		1150	1197	1168	1198	30.38	N/A	V
Na 1785 Peak Loc		142.6	141.8	143.3	141.2	-2.089	7.000	
Na 1785 Peak Res		8.500	8.905	7.709	9.136	1.427	2.000	%
Temperature		15.50	26.59	11.69	26.63	14.94	N/A	DEGC
Na Count Rate		45.00	12.01	12.89	12.67	-0.2204	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check								
Master: Calibration out of date		2-May-2021	10:04	Before: 13-Jun-2021	9:44	After: Calibration out of date	2-May-2021	10:16
Na 511 Peak Loc		40.00	39.88	39.51	39.79	0.2834	1.000	
Na 511 Peak Res		15.50	15.29	15.27	15.32	0.05639	2.000	%
High Voltage		1150	1122	1090	1121	30.63	N/A	V
Na 1785 Peak Loc		142.6	142.6	140.8	142.5	1.645	7.000	
Na 1785 Peak Res		8.500	8.040	9.507	10.27	0.7659	2.000	%
Temperature		15.50	27.21	12.30	27.24	14.94	N/A	DEGC
Na Count Rate		45.00	12.32	13.60	12.95	-0.6521	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2								
Master: Calibration out of date		2-May-2021	10:04	Before: 13-Jun-2021	9:44	After: Calibration out of date	2-May-2021	10:16
Coincidence Count Rate Ratio		1.000	0.9728	0.9527	0.9769	0.02428	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration								
Master: Calibration out of date		2-May-2021	10:00					
Na 511 Peak Set Point		40.00	41.00	--	--	--	--	
Th Peak Loc		209.6	209.6	--	--	--	--	
Th Peak Res		7.000	6.625	--	--	--	--	%
Background Count Rate		142.5	17.82	--	--	--	--	CPS
Gain Ratio		1.000	1.015	--	--	--	--	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration								
Master: Calibration out of date		2-May-2021	10:00					
Na 511 Peak Set Point		40.00	41.00	--	--	--	--	
Th Peak Loc		209.6	208.8	--	--	--	--	
Th Peak Res		7.000	7.662	--	--	--	--	%
Background Count Rate		142.5	16.78	--	--	--	--	CPS
Gain Ratio		1.000	0.9961	--	--	--	--	
Accelerator-Porosity Tool – Detector Plateau Settings :								
Near Detector Plateau Setting		1738 V						
Far Detector Plateau Setting		2068 V						
Array Detector Plateau Setting		1976 V						

High Resolution Laterolog Array – B / Equipment Identification

Primary Equipment:				
HRLT Sonde			HRLS – B	768
Auxiliary Equipment:				
HRLT lower Housing			HRLH – B	1869
HRLT Lower Cartridge			HRLC – B	1897
HRLT upper Housing			HRUH – B	975
HRLT Upper Cartridge			HRUC – B	964

High Resolution Laterolog Array – B Wellsite Calibration















HRLT M01

















Idx	Phase	HRLT M0 M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
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


Idx	Phase	HRLT M0-M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-318.6	-322.7	-280.7	-379.7
	After		-318.4			
1	Before		-330.1	-322.7	-280.7	-379.7
	After		-329.7			
2	Before		-337.4	-322.7	-280.7	-379.7
	After		-337.5			
3	Before		-328.4	-322.7	-280.7	-379.7
	After		-328.0			
4	Before		-319.8	-322.7	-280.7	-379.7
	After		-319.6			
5	Before		-321.5	-322.7	-280.7	-379.7
	After		-321.3			
6	Before		319.3	322.7	379.7	280.7
	After		318.9			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
(Minimum) (Nominal) (Maximum)						
Before: 4-Aug-2021 2:31						
After: 4-Aug-2021 8:28						













High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M12						
Idx	Phase	HRLT M1-M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1739	1781	2095	1549
	After		1737			
1	Before		1809	1781	2095	1549
	After		1805			
2	Before		1841	1781	2095	1549
	After		1841			
3	Before		1791	1781	2095	1549
	After		1787			
4	Before		1742	1781	2095	1549
	After		1740			
5	Before		1753	1781	2095	1549
	After		1750			
6	Before		-1758	-1781	-1549	-2095
	After		-1754			
7	Before		1781	1781	2095	1549
	After		1781			
(Minimum) (Nominal) (Maximum)						
Before: 4-Aug-2021 2:31						
After: 4-Aug-2021 8:28						

















High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2-M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1731	1781	2095	1549
	After		1729			






1	Before		1812	1781	2095	1549
	After		1806			
2	Before		1846	1781	2095	1549
	After		1845			
3	Before		1799	1781	2095	1549
	After		1795			
4	Before		1745	1781	2095	1549
	After		1742			
5	Before		1756	1781	2095	1549
	After		1754			
6	Before		-1749	-1781	-1549	-2095
	After		-1745			
7	Before		1781	1781	2095	1549
	After		1781			
(Minimum) (Nominal) (Maximum)						
Before: 4-Aug-2021 2:31						
After: 4-Aug-2021 8:28						











High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68600	70000	82360	60900
	After		68560			
1	Before		71630	70000	82360	60900
	After		71470			
2	Before		73280	70000	82360	60900
	After		73260			
3	Before		71670	70000	82360	60900
	After		71560			
4	Before		69470	70000	82360	60900
	After		69400			
5	Before		69920	70000	82360	60900
	After		69860			
6	Before		-68170	-70000	-60900	-82360
	After		-68070			
7	Before		70000	70000	82360	60900
	After		70000			
(Minimum) (Nominal) (Maximum)						
Before: 4-Aug-2021 2:31						
After: 4-Aug-2021 8:28						

















High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68680	70000	82360	60900
	After		68640			
1	Before		71840	70000	82360	60900
	After		71690			









2	Before		73460	70000	82360	60900
	After		73450			
3	Before		71820	70000	82360	60900
	After		71720			
4	Before		69580	70000	82360	60900
	After		69520			
5	Before		70010	70000	82360	60900
	After		69950			
6	Before		-68380	-70000	-60900	-82360
	After		-68280			
7	Before		70000	70000	82360	60900
	After		70000			
(Minimum) (Nominal) (Maximum)						
Before: 4-Aug-2021 2:31						
After: 4-Aug-2021 8:28						









High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68530	70000	82360	60900
	After		68500			
1	Before		71690	70000	82360	60900
	After		71520			
2	Before		73320	70000	82360	60900
	After		73320			
3	Before		71670	70000	82360	60900
	After		71560			
4	Before		69440	70000	82360	60900
	After		69380			
5	Before		69900	70000	82360	60900
	After		69840			
6	Before		-68220	-70000	-60900	-82360
	After		-68120			
7	Before		70000	70000	82360	60900
	After		70000			
(Minimum) (Nominal) (Maximum)						
Before: 4-Aug-2021 2:31						
After: 4-Aug-2021 8:28						

















High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68070	-70000	-60900	-82360
	After		-68030			
1	Before		-71490	-70000	-60900	-82360
	After		-71330			
2	Before		-73160	-70000	-60900	-82360
	After		-73150			

3	After		-71580	-70000	-60900	-82360
	Before		-71490			
4	After		-69400	-70000	-60900	-82360
	Before		-69340			
5	After		-69850	-70000	-60900	-82360
	Before		-69790			
6	After		67980	70000	82360	60900
	Before		67890			
7	After		-70000	-70000	-60900	-82360
	Before		-70000			
(Minimum) (Nominal) (Maximum)						
Before: 4-Aug-2021 2:31						
After: 4-Aug-2021 8:28						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridge#9–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	After		-68110	-70000	-60900	-82360
	Before		-68070			
1	After		-71570	-70000	-60900	-82360
	Before		-71430			
2	After		-73250	-70000	-60900	-82360
	Before		-73240			
3	After		-71660	-70000	-60900	-82360
	Before		-71550			
4	After		-69450	-70000	-60900	-82360
	Before		-69390			
5	After		-69880	-70000	-60900	-82360
	Before		-69830			
6	After		68070	70000	82360	60900
	Before		67980			
7	After		-70000	-70000	-60900	-82360
	Before		-70000			
(Minimum) (Nominal) (Maximum)						
Before: 4-Aug-2021 2:31						
After: 4-Aug-2021 8:28						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	After		284.1	284.0	334.1	247.0
	Before		284.1			
1	After		281.1	281.1	330.7	244.4
	Before		281.1			
2	After		281.1	281.1	330.7	244.4
	Before		281.1			
3	After		281.1	281.1	330.7	244.4
	Before		281.1			

4	After		281.1	281.1	330.7	244.4
	Before		281.1			
5	After		281.1	281.1	330.7	244.4
	Before		281.1			
6	After		281.1	281.1	330.7	244.4
	Before		281.1			
7	After		281.1	281.1	330.7	244.4
	Before		281.1			
(Minimum) (Nominal) (Maximum)						
Before: 4–Aug–2021 2:31						
After: 4–Aug–2021 8:28						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	After		-320.5	-322.7	-280.7	-379.7
	Before		-320.4			
1	After		-325.2	-322.7	-280.7	-379.7
	Before		-324.5			
2	After		-331.0	-322.7	-280.7	-379.7
	Before		-331.1			
3	After		-320.4	-322.7	-280.7	-379.7
	Before		-319.9			
4	After		-309.0	-322.7	-280.7	-379.7
	Before		-308.8			
5	After		-325.6	-322.7	-280.7	-379.7
	Before		-325.4			
6	After		327.0	322.7	379.7	280.7
	Before		326.5			
7	After		-322.7	-322.7	-280.7	-379.7
	Before		-322.7			
(Minimum) (Nominal) (Maximum)						
Before: 4–Aug–2021 2:31						
After: 4–Aug–2021 8:28						

Hostile Litho–Density Sonde / Equipment Identification

Primary Equipment:







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









GSR – ZA 2945
HLDS – D 77
HLDV – D 67

Auxiliary Equipment:






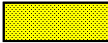
Hostile Litho Density High Voltage Housi
Hostile Litho Density Pad

HEH – H 67
HLDP – C 83

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		7.758	Master		7.955	Master		71.23
Before		7.786	Before		7.993	Before		71.54

Hostile Litho-Density Sonde Master Calibration									
Detector Litholog Measurement (bkgd-subtracted)									
Phase	LSW1 Iron CPS			Value	Phase	LSW2 Iron CPS			Value
Master				294.6	Master				519.6
	290.0 (Minimum)	400.0 (Nominal)	560.0 (Maximum)			520.0 (Minimum)	730.0 (Nominal)	950.0 (Maximum)	
Phase	LSW4 Iron CPS			Value	Phase	LSW5 Iron CPS			Value
Master				356.5	Master				324.3
	370.0 (Minimum)	520.0 (Nominal)	700.0 (Maximum)			340.0 (Minimum)	470.0 (Nominal)	750.0 (Maximum)	
Phase	SSW2 Iron CPS			Value	Phase	SSW3 Iron CPS			Value
Master				4850	Master				7413
	4900 (Minimum)	6800 (Nominal)	7900 (Maximum)			7800 (Minimum)	10800 (Nominal)	12600 (Maximum)	
Phase	SSW4 Iron CPS			Value	Phase	SSW5 Iron CPS			Value
Master				2975	Master				328.7
	3300 (Minimum)	4600 (Nominal)	5400 (Maximum)			420.0 (Minimum)	580.0 (Nominal)	680.0 (Maximum)	

Master: 2-Aug-2021 1:49

Hostile Litho-Density Sonde Master Calibration									
Quality Ratios									
Phase	AL CALIBRATION RATIO 1			Value	Phase	AL CALIBRATION RATIO 2			Value
Master				1.030	Master				2.235
	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)			1.900 (Minimum)	2.100 (Nominal)	2.300 (Maximum)	
Phase	AL CALIBRATION RATIO 4			Value	Phase	Pad-Wear SS Ratio			Value
Master				0.5730	Master				0.9950
	0.4000 (Minimum)	0.5500 (Nominal)	0.6500 (Maximum)			0.9800 (Minimum)	0.9880 (Nominal)	0.9960 (Maximum)	
Phase	Pad-Position SS Ratio			Value	Phase	Pad-Position LS Ratio			Value
Master				1.006	Master				0.9874
	0.9900 (Minimum)	0.9940 (Nominal)	1.015 (Maximum)			0.9850 (Minimum)	0.9940 (Nominal)	1.010 (Maximum)	

Master: 2-Aug-2021 1:42

Litho-Density Spectroscopy Cartridge - B / Equipment Identification

Primary Equipment:

LDSC Cartridge

LDSC - B

521

Auxiliary Equipment:

LDSC Housing

LDSC - A

319

Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:

Accelerator-Porosity Sonde

APS Minitron

APS - C

249

MNTR - F

51002

Auxiliary Equipment:

Accelerator-Porosity Housing

APS Calibration Water Tank

APS Aluminum Calibrator Sleeve

APH - AC







152

SFT - 178

1

SFT - 281

1




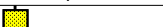


Accelerator-Porosity Tool Wellsite Calibration									
Detector Background									
Phase	Near Det Bkg Cntrate CPS			Value	Phase	Far Det Bkg Cntrate CPS			Value
Master				25.16	Master				24.05
Before				25.36	Before				26.42
After				24.94	After				23.60

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)	
Phase	Array-2 Det Bkg Cntrate CPS		Value	Phase	Array Therm Det Bkg Cntrate CPS		Value				
Master			23.93	Master			26.33				
Before			22.91	Before			25.03				
After			24.08	After			24.84				
1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)		1.000 (Minimum)	30.00 (Nominal)	50.00 (Maximum)					
Master: Calibration out of date			3-May-2021 6:13	Before: 4-Aug-2021 2:37				After: 4-Aug-2021 8:35			

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			0.9424	Master			1.083	Master		1.016
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: Calibration out of date 3-May-2021 6:15										

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				11.04	Master				10.88	Master				5.997
	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				0.9943	Master				0.9896	Master				27.71
	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: Calibration out of date 3-May-2021 6:16														

Accelerator-Porosity Tool Master Calibration										
Detector Calibration										
Phase	Near/Far Calibration Ratio		Value	Phase	Near/Array Calibration Ratio		Value	Phase	Near/Array Cal Ratio Up/Down	Value
Master			0.9424	Master			1.083	Master		1.016
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: Calibration out of date 3-May-2021 6:15										

Accelerator-Porosity Tool Master 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				11.04	Master				10.88	Master				5.997
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				0.9943	Master				0.9896	Master				27.71
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: Calibration out of date 3-May-2021 6:16														

Hostile Natural Gamma Ray Cartridge - B / Equipment Identification

Primary Equipment:
HNGC Cartridge

HNGC - B 304

Auxiliary Equipment:
HNGC Housing

HNGH - A 3






















Hostile Natural Gamma Ray Sonde / Equipment Identification




Primary Equipment:
HNCS Sonde

HNCS - BA 99

Auxiliary Equipment:

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	<div><div></div></div>		39.25	Master	<div><div></div></div>		16.53	Master	<div><div></div></div>		1197			
Before	<div><div></div></div>		39.64	Before	<div><div></div></div>		14.84	Before	<div><div></div></div>		1168			
After	<div><div></div></div>		39.73	After	<div><div></div></div>		15.11	After	<div><div></div></div>		1198			
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	<div><div></div></div>		141.8	Master	<div><div></div></div>		8.905	Master	<div><div></div></div>		26.59			
Before	<div><div></div></div>		143.3	Before	<div><div></div></div>		7.709	Before	<div><div></div></div>		11.69			
After	<div><div></div></div>		141.2	After	<div><div></div></div>		9.136	After	<div><div></div></div>		26.63			
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	<div><div></div></div>		12.01											
Before	<div><div></div></div>		12.89											
After	<div><div></div></div>		12.67											
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)		
Master: Calibration out of date 2-May-2021 10:04				Before: 13-Jun-2021 9:44				After: Calibration out of date 2-May-2021 10:16						

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			39.88	Master			15.29	Master			1122				
Before			39.51	Before			15.27	Before			1090				
After			39.79	After			15.32	After			1121				
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			8.040	Master			27.21				
Before			140.8	Before			9.507	Before			12.30				
After			142.5	After			10.27	After			27.24				
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			12.32												
Before			13.60												
After			12.95												
10.00 (Minimum)			45.00 (Nominal)									100.0 (Maximum)			
Master: Calibration out of date 2-May-2021 10:04				Before: 13-Jun-2021 9:44				After: Calibration out of date 2-May-2021 10:16							

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		0.9728	
Before		0.9527	
After		0.9769	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: Calibration out of date 2-May-2021 10:04			
Before: 13-Jun-2021 9:44			
After: Calibration out of date 2-May-2021 10:16			

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	<div><div></div></div>		41.00	Master	<div><div></div></div>		209.6	Master	<div><div></div></div>		6.625
	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	<div><div></div></div>		17.82	Master	<div><div></div></div>		1.015				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: Calibration out of date 2-May-2021 10:00											

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	<div><div></div></div>		41.00	Master	<div><div></div></div>		208.8	Master	<div><div></div></div>		7.662
	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	<div><div></div></div>		16.78	Master	<div><div></div></div>		0.9961				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: Calibration out of date 2-May-2021 10:00											

DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge
DTC-H Telemetry Cartridge

DTCH - A 8799
DTCH - A 8799

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing

ECH - KC 9842

Company: International Ocean Discovery Program

Schlumberger

Well: Expedition 395C, Site U1564C

Field: North Atlantic Mantle Convection&Climate

Rig: JOIDES Resolution

Ocean: Atlantic

High Resolution Laterolog (HRLA)
Litho Density (HLDS) / (APS) Porosity
Natural Gamma / MSS (HNGS)