Schlumberger

Company: **International Ocean Discovery Program**

Well: **Expedition 403, Site U1618C**
Field: **Eastern Fram Strait Paleo Archive**
Rig: **JOIDES Resolution** Country: **Netherlands**

High Resolution Laterolog (HRLA) / HLDS
Mag. Sus. (MSS) / Accel. Porosity (APS)
Natural Gamma / MSS (HNGS)

Rig: JOIDES Resolution
Field: Eastern Fram Strait Paleo Archiv
Location: Latitude: N 78* 56.9070'
Well: Expedition 403, Site U1618C
Company: International Ocean Discovery Pr

LOCATION

Latitude: N 78* 56.9070'
Longitude: E 7* 28.3866'

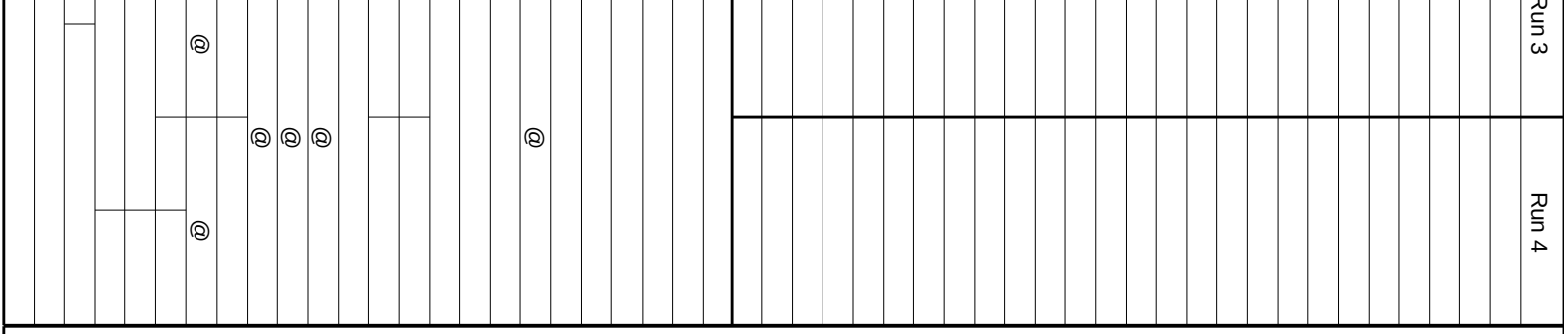
Elev.: K.B. 0.00 m
G.L. 1206.70 m
D.F. 0.00 m

Permanent Datum: Sea Floor — Elev.: −1206.70 m
Log Measured From: Rig Floor — 1206.70 m above Perm. Datum
Drilling Measured From: Rig Floor

Ocean: Atlantic	Max. Well Deviation 5 deg	Longitude E 7.47311*	Latitude N 78.94845

	Run 1	Run 2	
Logging Date	19−Jun−2024		
Run Number	1		
Depth Driller	1620.6 m		
Schlumberger Depth	1580 m		
Bottom Log Interval	1580 m		
Top Log Interval	1206.7 m		
Casing Driller Size @ Depth	10.750 in @ 1286.3 m	@	
Casing Schlumberger	1285 m		
Bit Size	9.875 in		
Type Fluid In Hole	Sea Water		
MUD Density / Viscosity	1.023 g/cm3 /		
MUD Fluid Loss / PH	/ 8.07		
MUD Source Of Sample	Mudpit		
RM @ Measured Temperature	0.220 ohm.m @ 23 degC	@	
RMF @ Measured Temperature	@	@	
RMC @ Measured Temperature	@	@	
Source RMF / RMC	N/A / N/A	/	
RM @ MRT / RMF @ MRT	0.369 @ 5 / @ 5	@ / @	
Maximum Recorded Temperatures	5 degC		
Circulation Stopped / Time	19−Jun−2024 / 0:00		
Logger On Bottom / Time	19−Jun−2024 / 18:00		
Unit Number / Location	627314 / Larose, LA	/	
Recorded By	C. Furman		
Witnessed By	K. Grigar		

	Run 1	Run 2	
Logging Date			
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
MUD Density / Viscosity	/		
MUD Fluid Loss / PH	/		
MUD Source Of Sample			
RM @ Measured Temperature	@		
RMF @ Measured Temperature	@		
RMC @ Measured Temperature	@		
Source RMF / RMC	/		
RM @ MRT / RMF @ MRT	@ / @		
Maximum Recorded Temperatures			
Circulation Stopped / Time			
Logger On Bottom / Time			
Unit Number / Location	/		
Recorded By			
Witnessed By			



DISCLAIMER

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OTHER SERVICES1

OS1: DSI

OS2: FMS

OTHER SERVICES2

REMARKS: RUN NUMBER 1

Hole drilled with RCB bottom hole assembly (BHA) at 9.875" BS

Drill pipe set at 1286.4 mbsf (79.6 mbsf)

No Casing present.

Fluid type was seawater, as drilled.

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 closed for down log, as it cannot be used in that direction, so Density measurement are NOT valid.

Active heave compensator centered and on standby, but not required for this run due to lack of heave.

Caliper Open from TD to just below pipe on upward logs.

Maximum depth reached was 1580mbrf, roughly 40m above driller's TD; logs recorded from there

RUN 1

SERVICE ORDER #:

PROGRAM VERSION: 19C0−187

FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:

PROGRAM VERSION:

FLUID LEVEL:

LOGGED INTERVAL	START	STOP

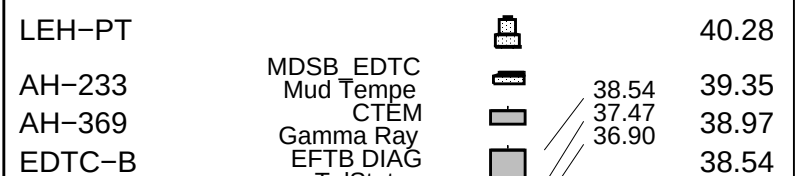
EQUIPMENT DESCRIPTION

RUN 1

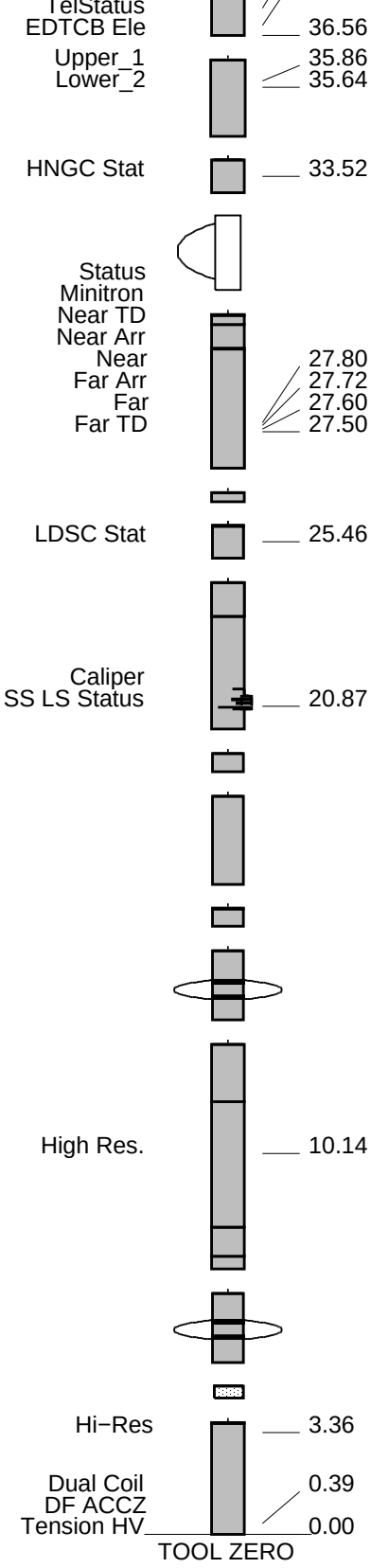
SURFACE EQUIPMENT

SFT−281 1
SFT−178 1
GSR−U 135
WITM (EDTS)−A

DOWNHOLE EQUIPMENT



RUN 2



EDTH−B 8528
EDTC−B 8529

HNGS−BA 36.56
HNGS−BA 177
HNSH−BA 174

HNGC−B 34.06

ILE−F 32.99
ILE−F

AH−191 30.55

APS−C 30.25
APH−AC 121
APS−C 212
MNTR−F 51305

AH−190 26.30

LDSC−B 26.00

HLDS 24.93
HLDV−D 67
HLDS−D 77
GSR−ZA 2945
HLDP−C 83
HEH−H 67

AH−184 20.11

AH−ECH−MRA 19.50
AH−ECH−MRA 5714

AH−184 16.61

AH−MCD 16.00
AH−MCD 82

HRLT−B 13.72
HRUH−B 975
HRUC−B 964
HRLS−B 768
HRLH−B 1869
HRLC−B 1897
AH−270 1708

AH−MCD2 6.35
AH−MCD2 12

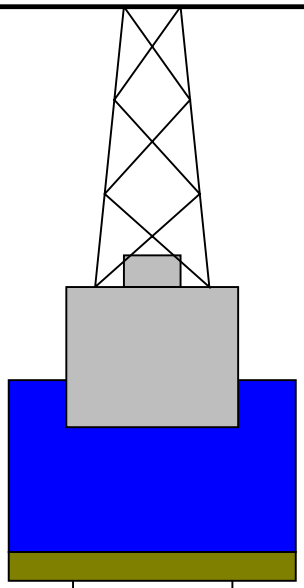
AH−230 4.07

MSS_LDEO−A 3.67
ELIC−A 1
MSS_LDEO−A 1

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

Production String	(in) (m)	Well Schematic	(m) (in)	Casing String

	OD	ID	MD
Kelly Bushing Elevation			11.0
Derrick Floor Elevation			11.0
Mean Sea Level			0.0



MD	OD	ID	
0.0	5.500	4.000	
1206.7	9.875		Sea Floor
1286.3	5.500	4.000	Bit
1620.2	9.875		TD – Driller

Schlumberger

Downlog
1:200 Scale

MAXIS Field Log

Company: International Ocean Discovery Program **Well: Expedition 403, Site U1618C**

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_018LUP		PRODUCER	19−Jun−2024 20:23	1584.8 M	1159.0 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:25	PRODUCER	19−Jun−2024 20:25	1575.1 M	1159.0 M
RTB	MSS_LDEO_HRLA_LDL_021PUP	FN:26	PRODUCER	19−Jun−2024 20:25	1575.1 M	1159.0 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

APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

HNGS Borehole Potassium (HBHK)
−0.01 (V/V) 0.01

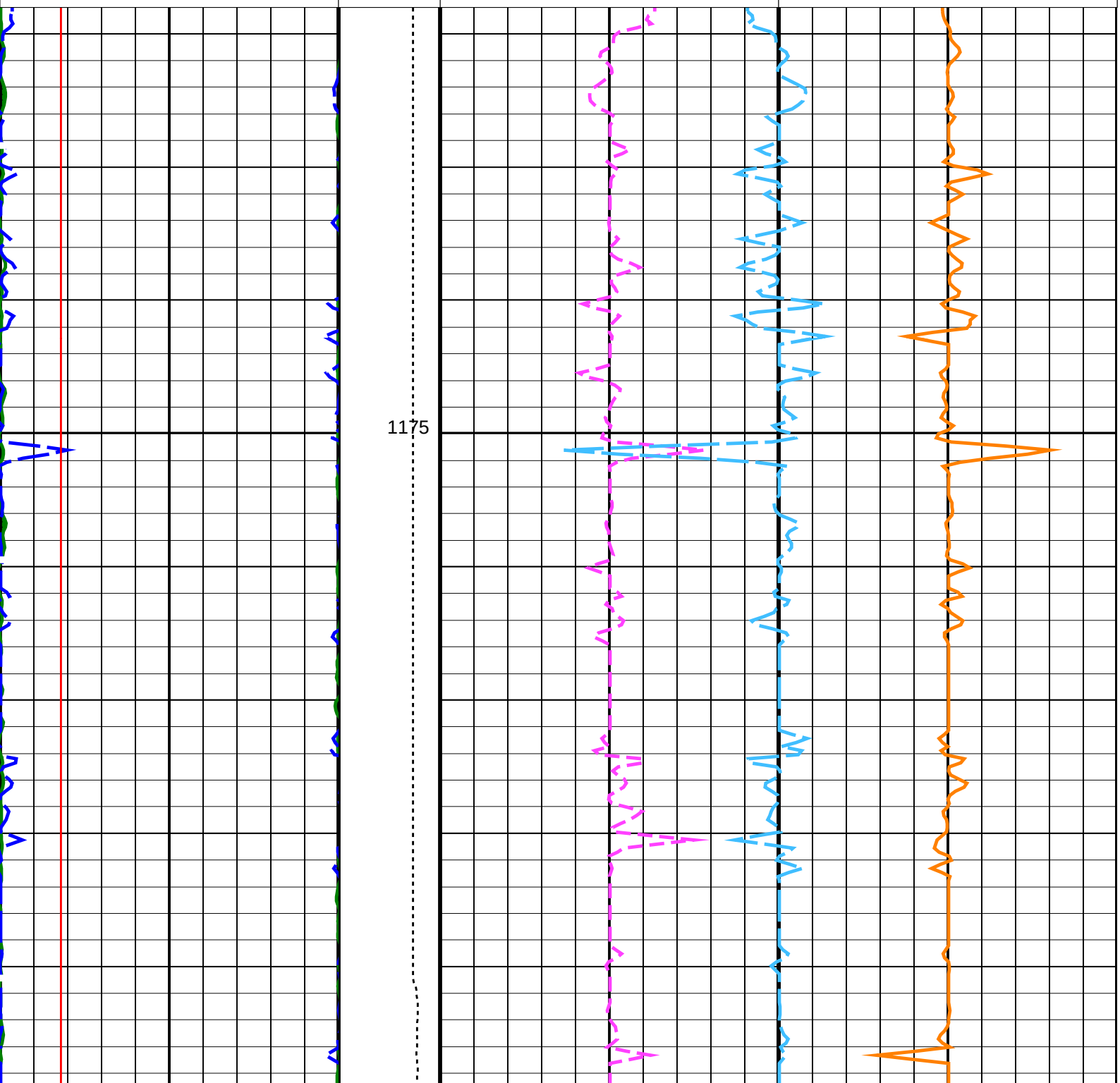
HNGS Uranium (HURA)
−5 (PPM) 5

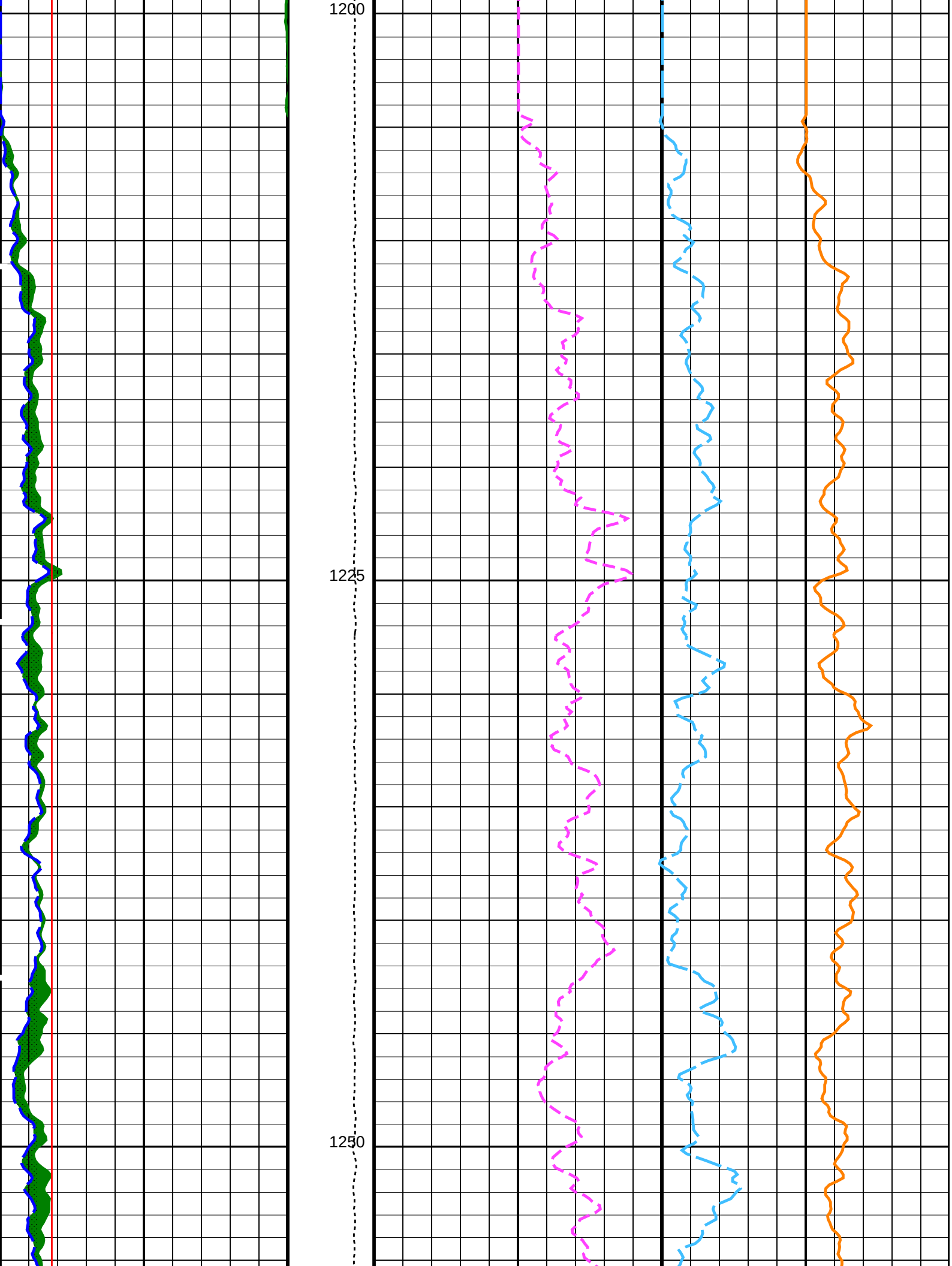
HLDS Caliper (LCAL)
0 (IN) 20

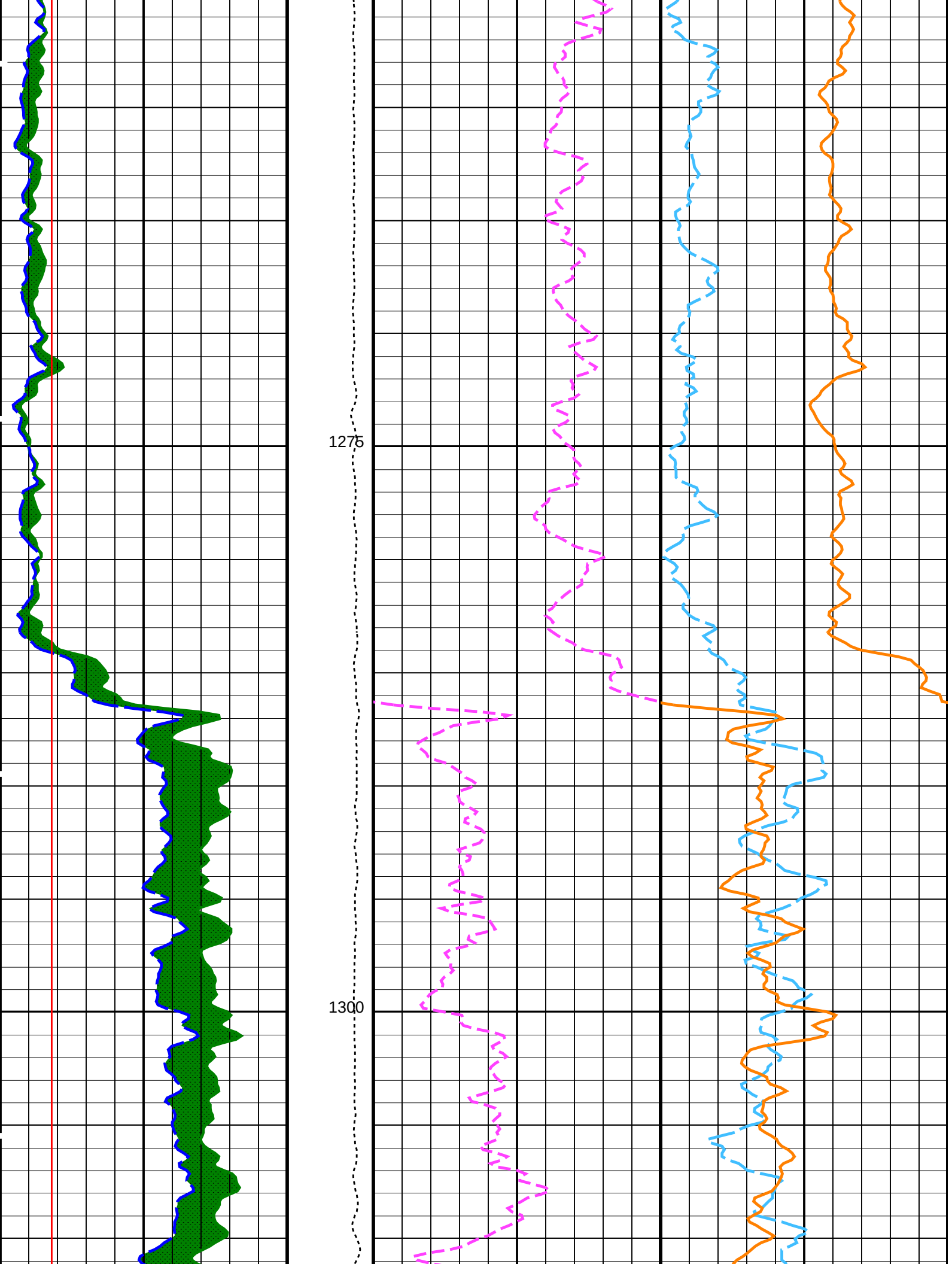
Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
−5 (PPM) 5

HNGS Potassium (HFK)
−0.01 (V/V) 0.01




1200
1225
1250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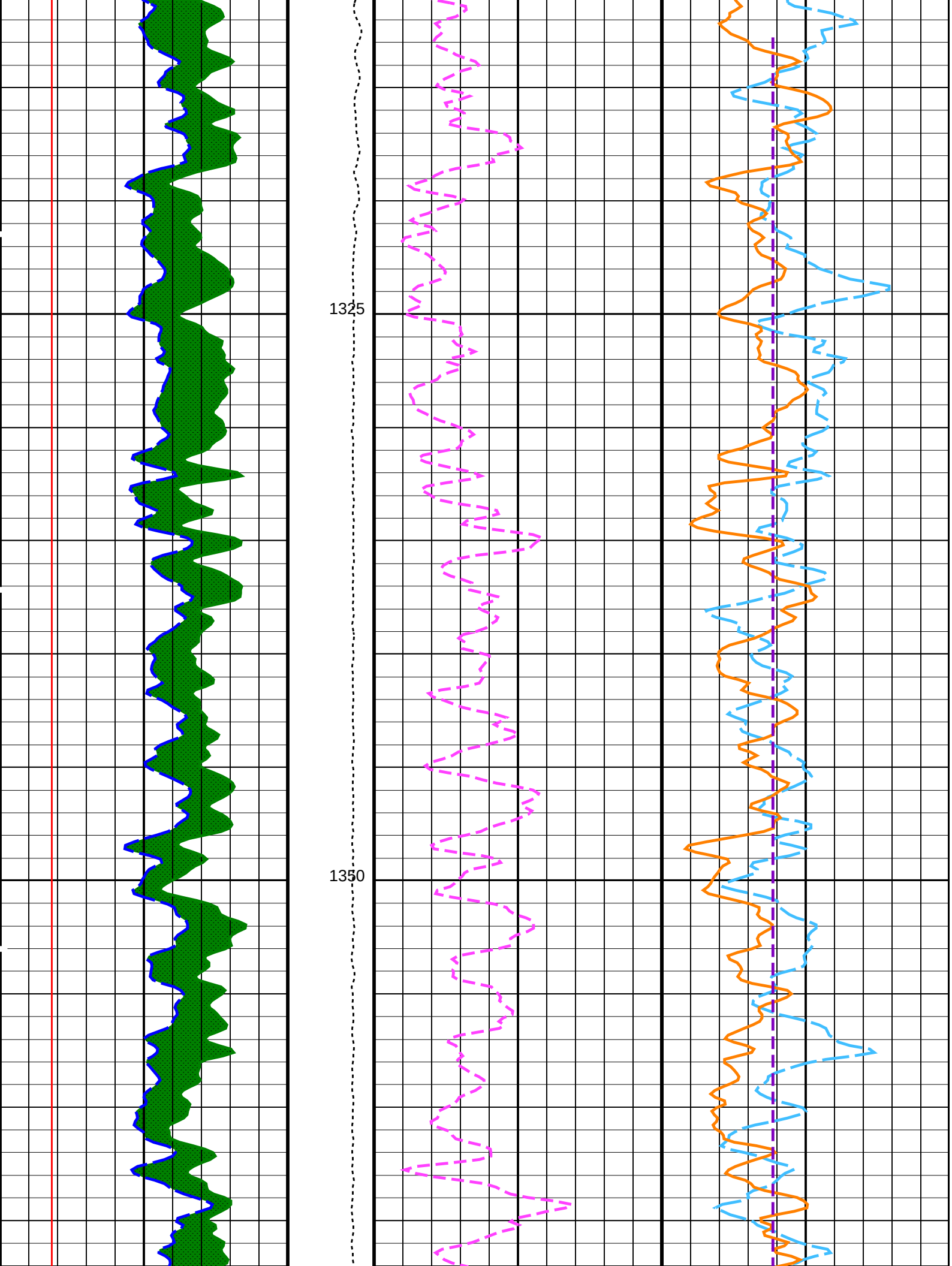
1300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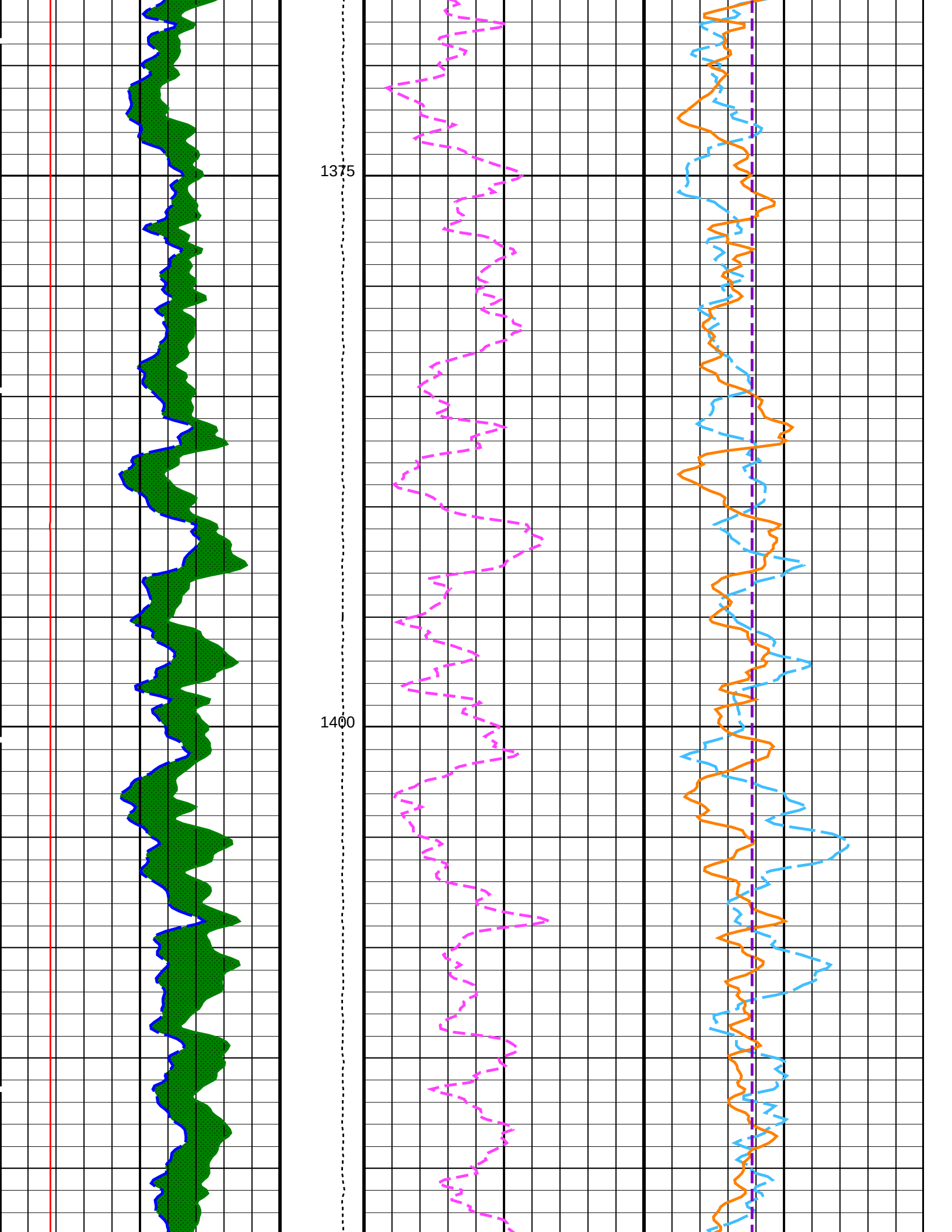
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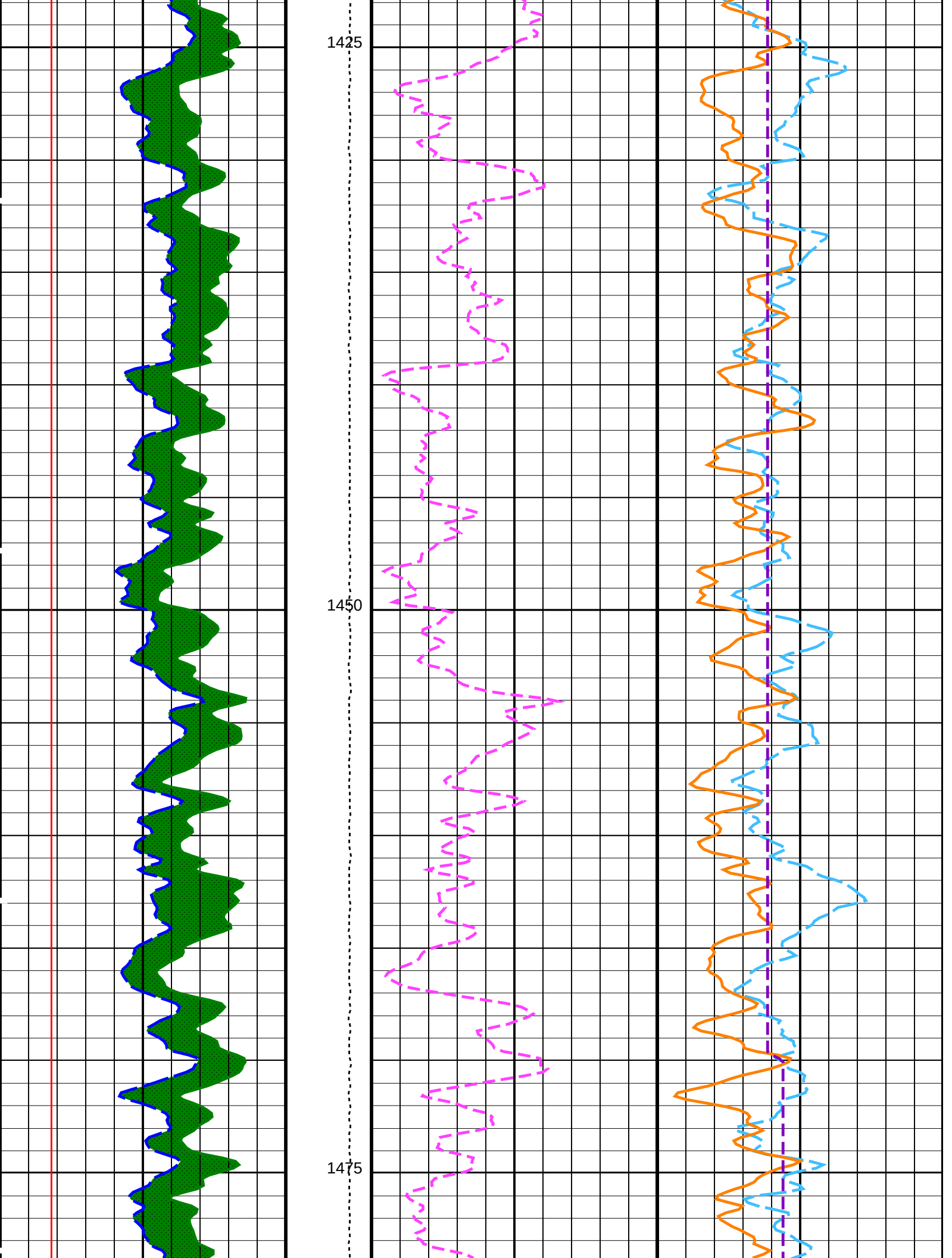
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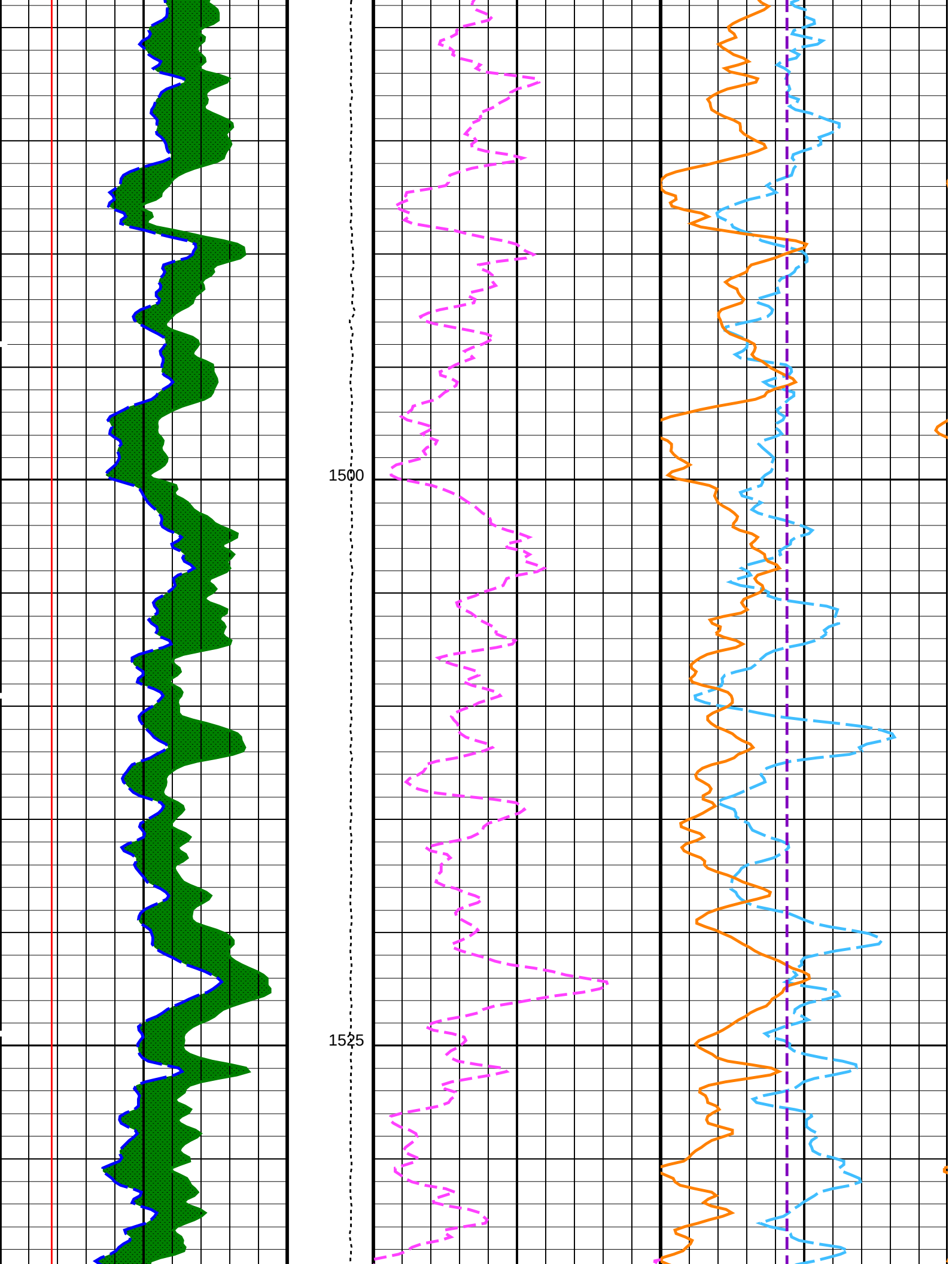
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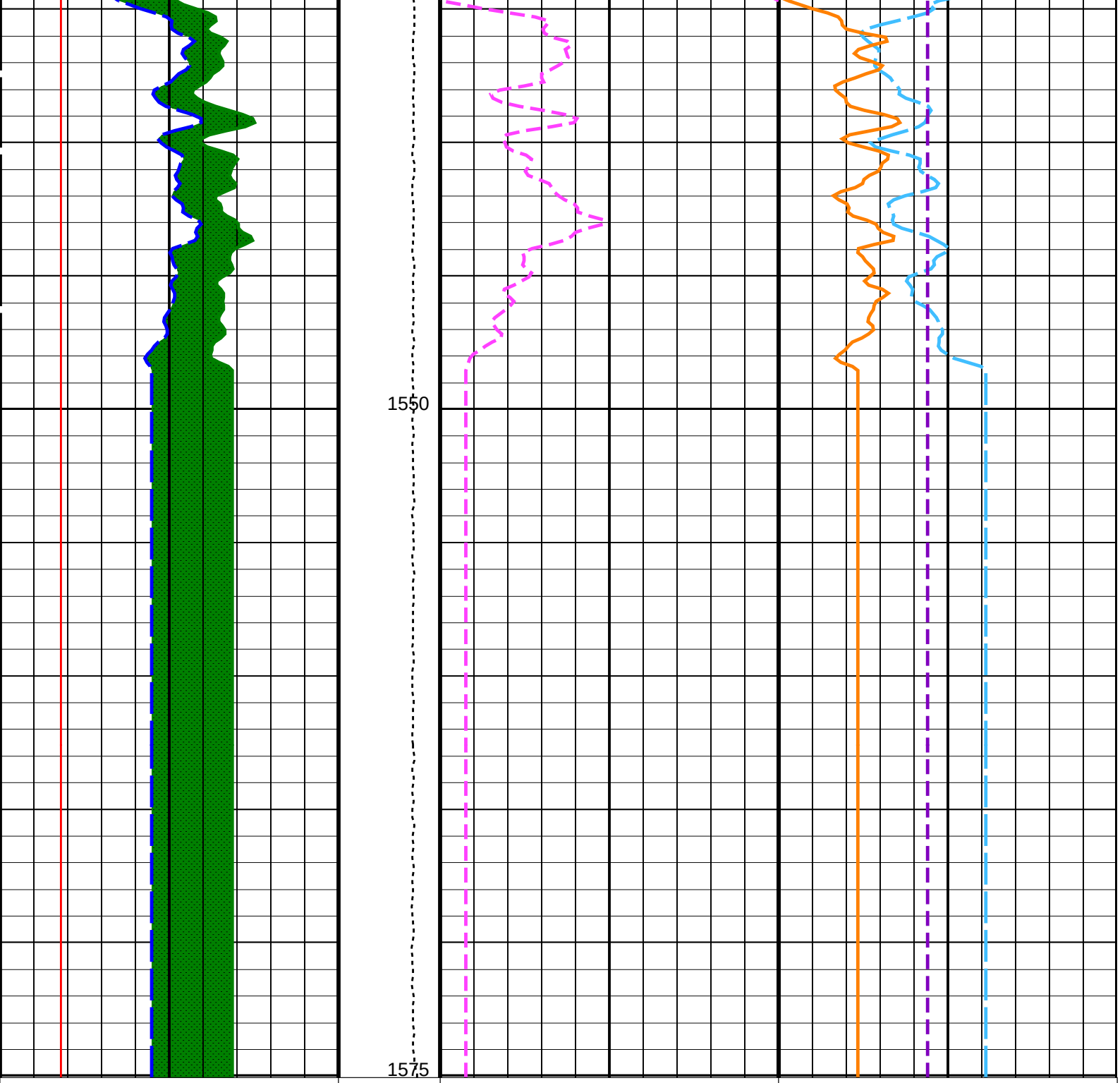


HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
−5 (PPM) 5

HNGS Potassium (HFK)
−0.01 (V/V) 0.01

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

HNGS Uranium (HURA)
−5 (PPM) 5

Area1
From HCGR to HSGR

HNGS Borehole Potassium (HBHK)
−0.01 (V/V) 0.01

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	APS−C: Accelerator−Porosity Tool		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	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	0.0457458	
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	0.933672	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.57664	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields **Vertical Scale: 1:200** **Graphics File Created: 19−Jun−2024 20:25**

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_018LUP	PRODUCER	19−Jun−2024 20:23	1584.8 M	1159.0 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:25	PRODUCER	19−Jun−2024 20:25		
RTB	MSS_LDEO_HRLA_LDL_021PUP	FN:26	PRODUCER	19−Jun−2024 20:25		

Company: International Ocean Discovery Program **Well: Expedition 403, Site U1618C**

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_018LUP	PRODUCER	19−Jun−2024 20:23	1584.8 M	1159.0 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:25	PRODUCER	19−Jun−2024 20:25	1575.1 M	1159.0 M
RTB	MSS_LDEO_HRLA_LDL_021PUP	FN:26	PRODUCER	19−Jun−2024 20:25	1575.1 M	1159.0 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187

HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

APS Quality of Formation Capture Cross−Section (QSGF)
10 (−−−−) 0

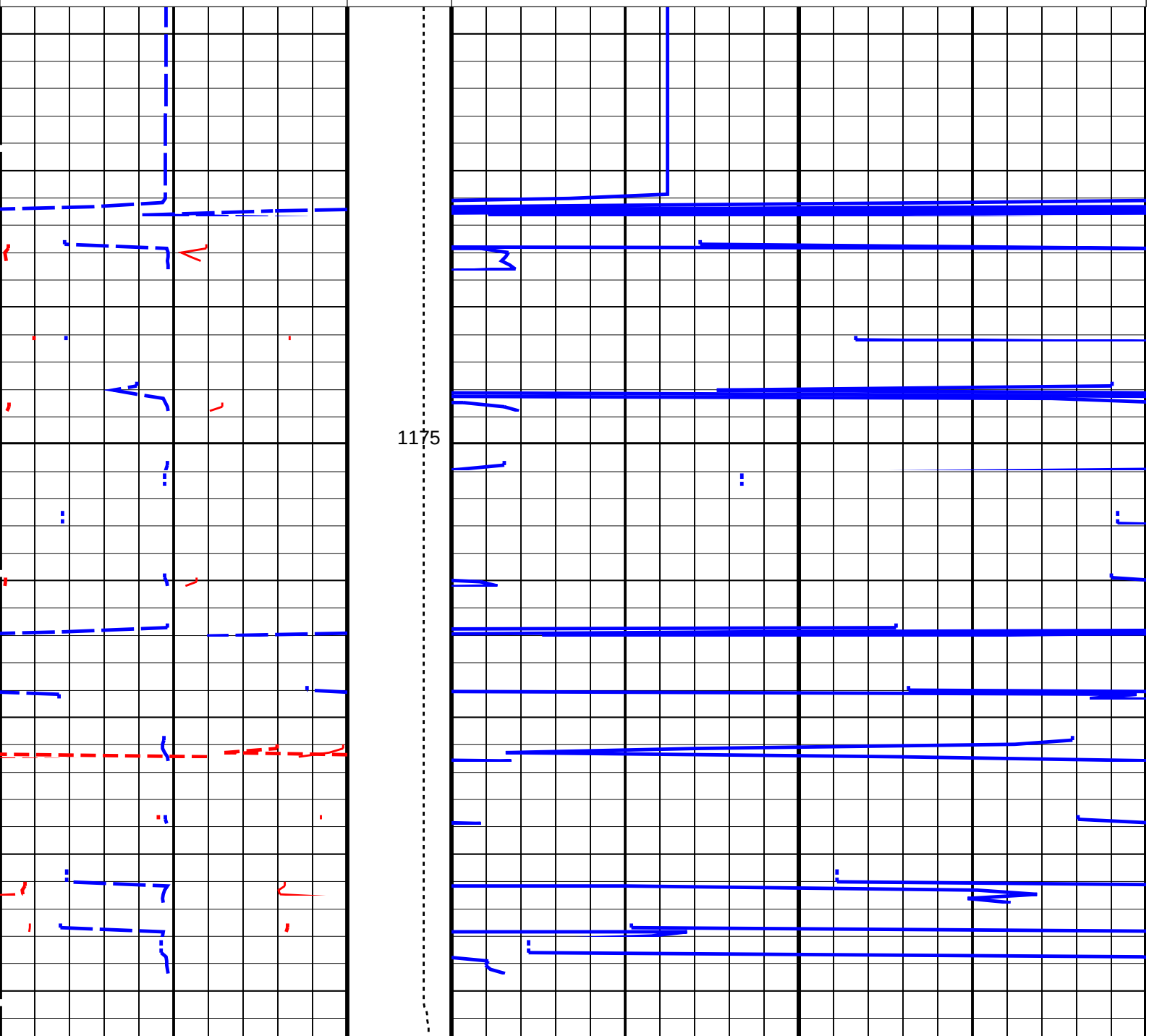
APS Total Correction in APLC (PHICOR_APLC)
−10 (PU) 10

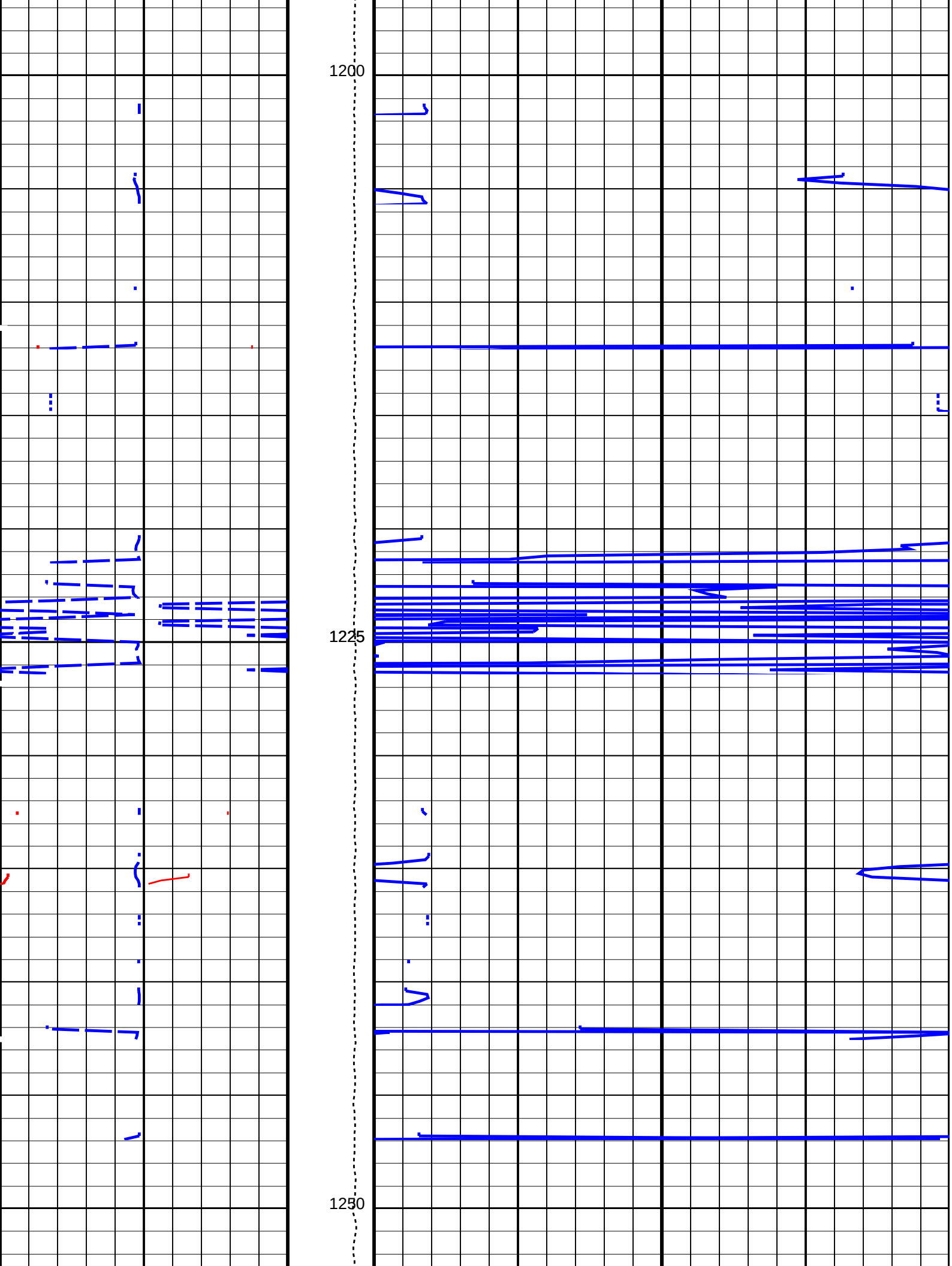
APS Formation Capture Cross−Section (SIGF)
0 (CU) 50

APS Porosity Quality (QSDP)
10 (−−−−) 0

Tension (TENS) (LBF)
10000 0

APS Near/Array Corrected Limestone Porosity (APLC)
60 (PU) 0

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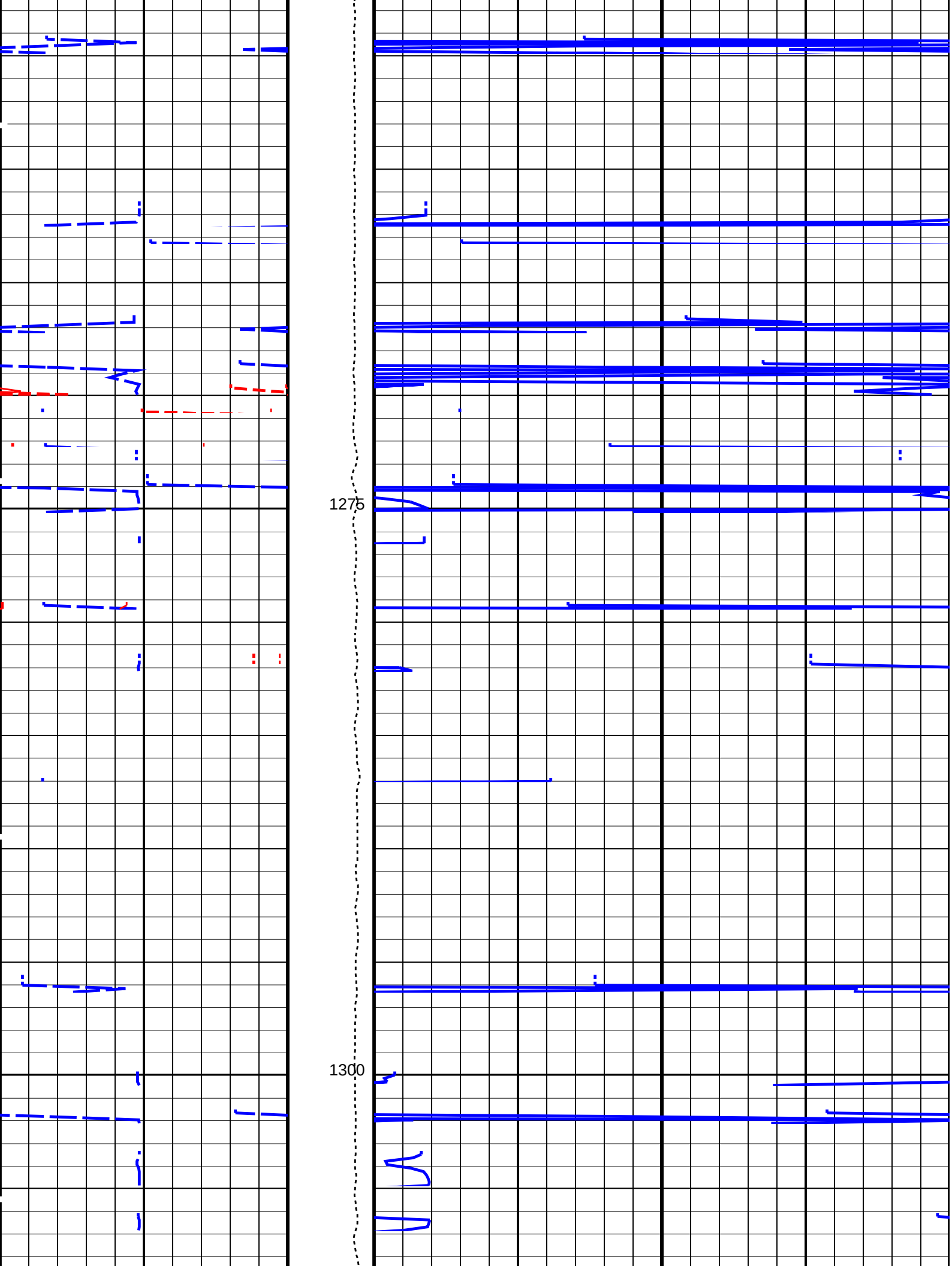
1225
1250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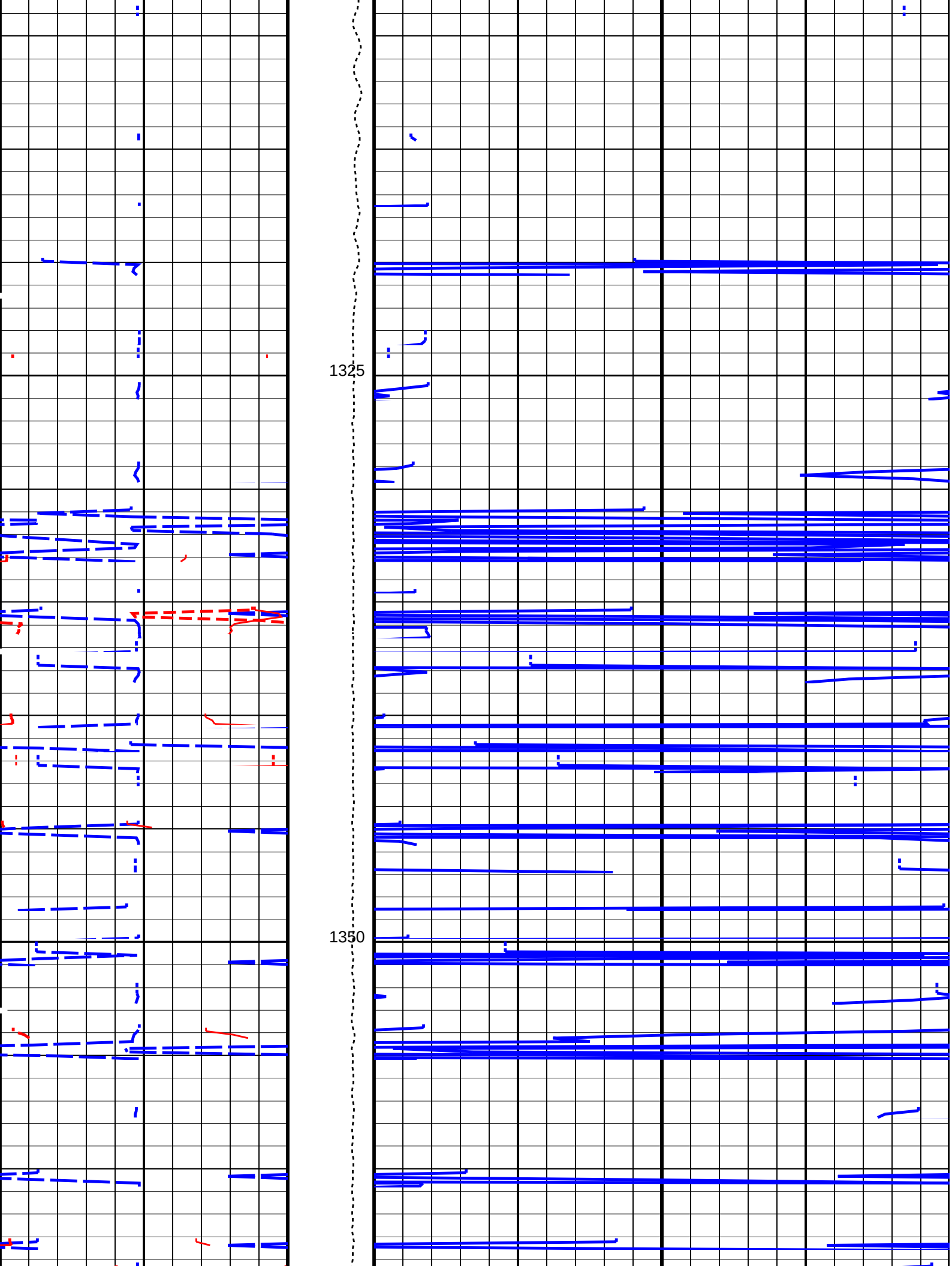
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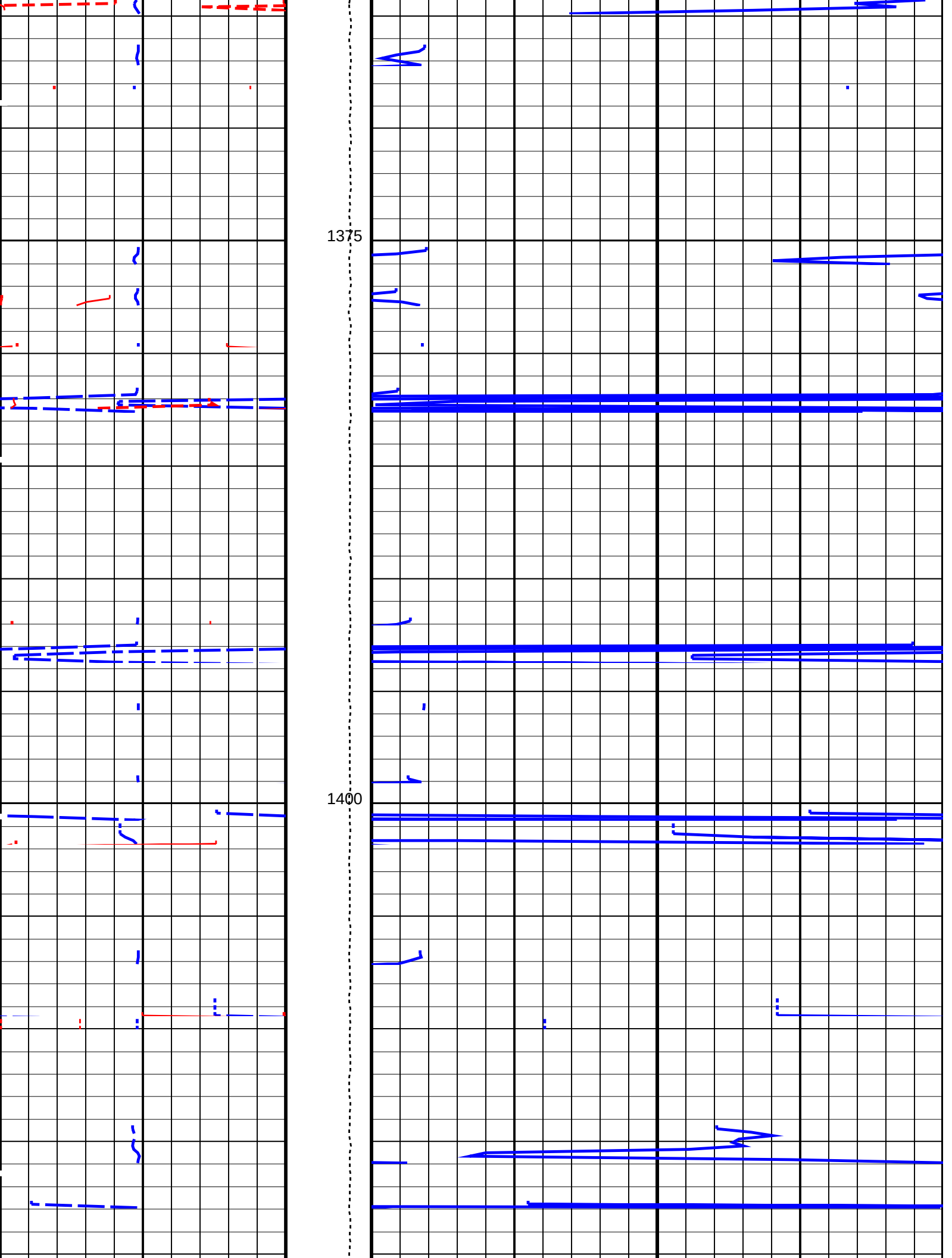
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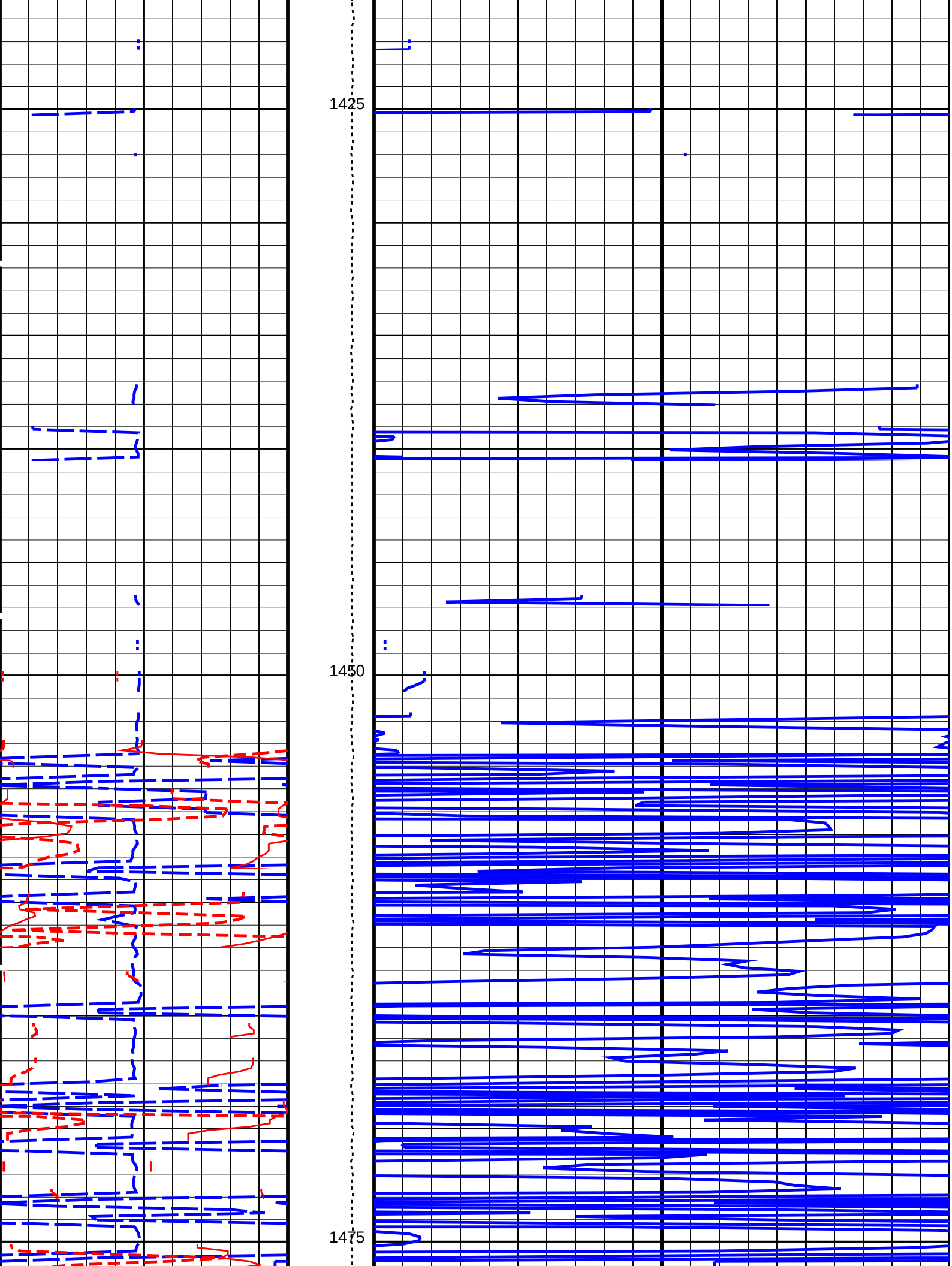
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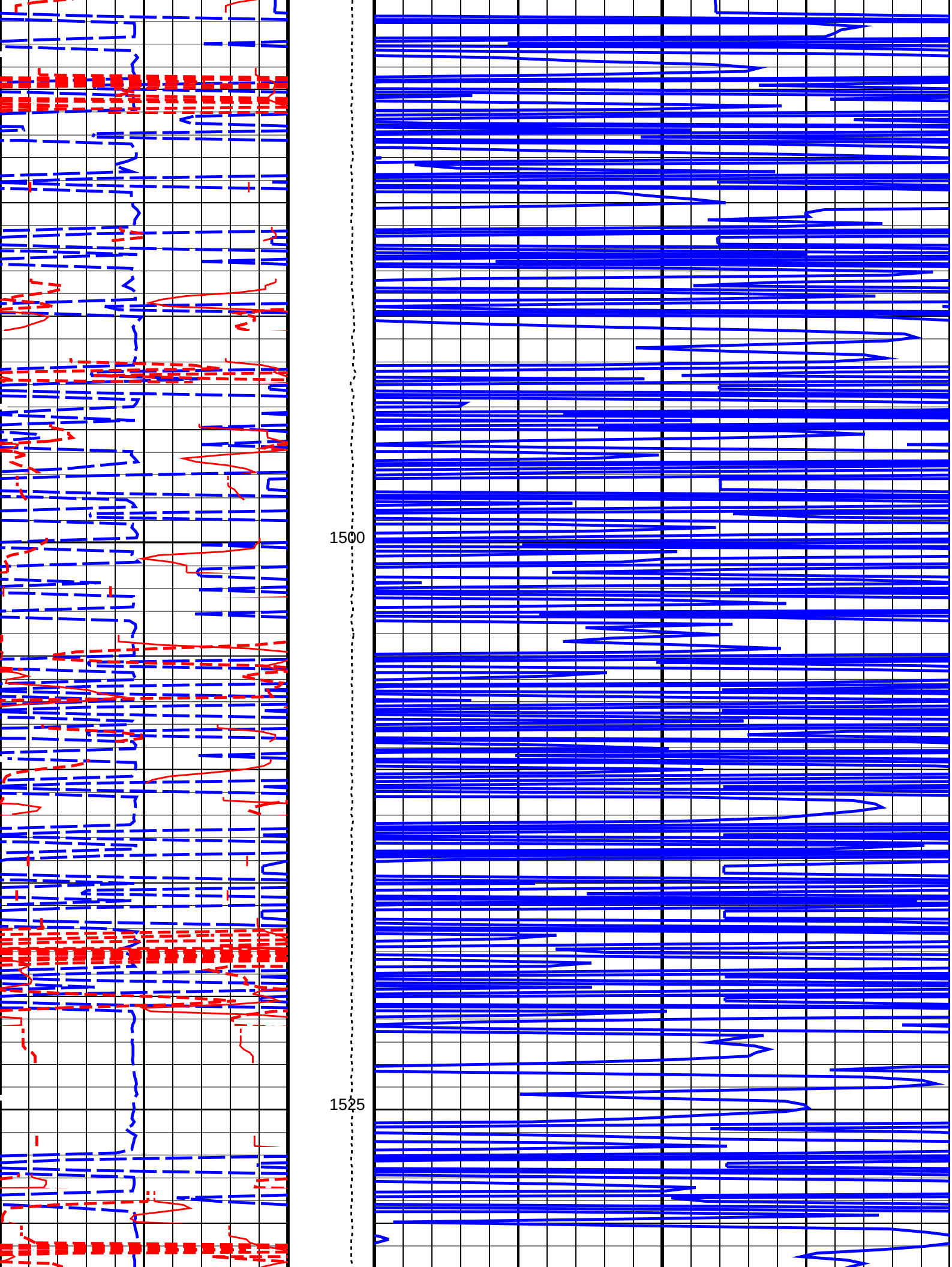
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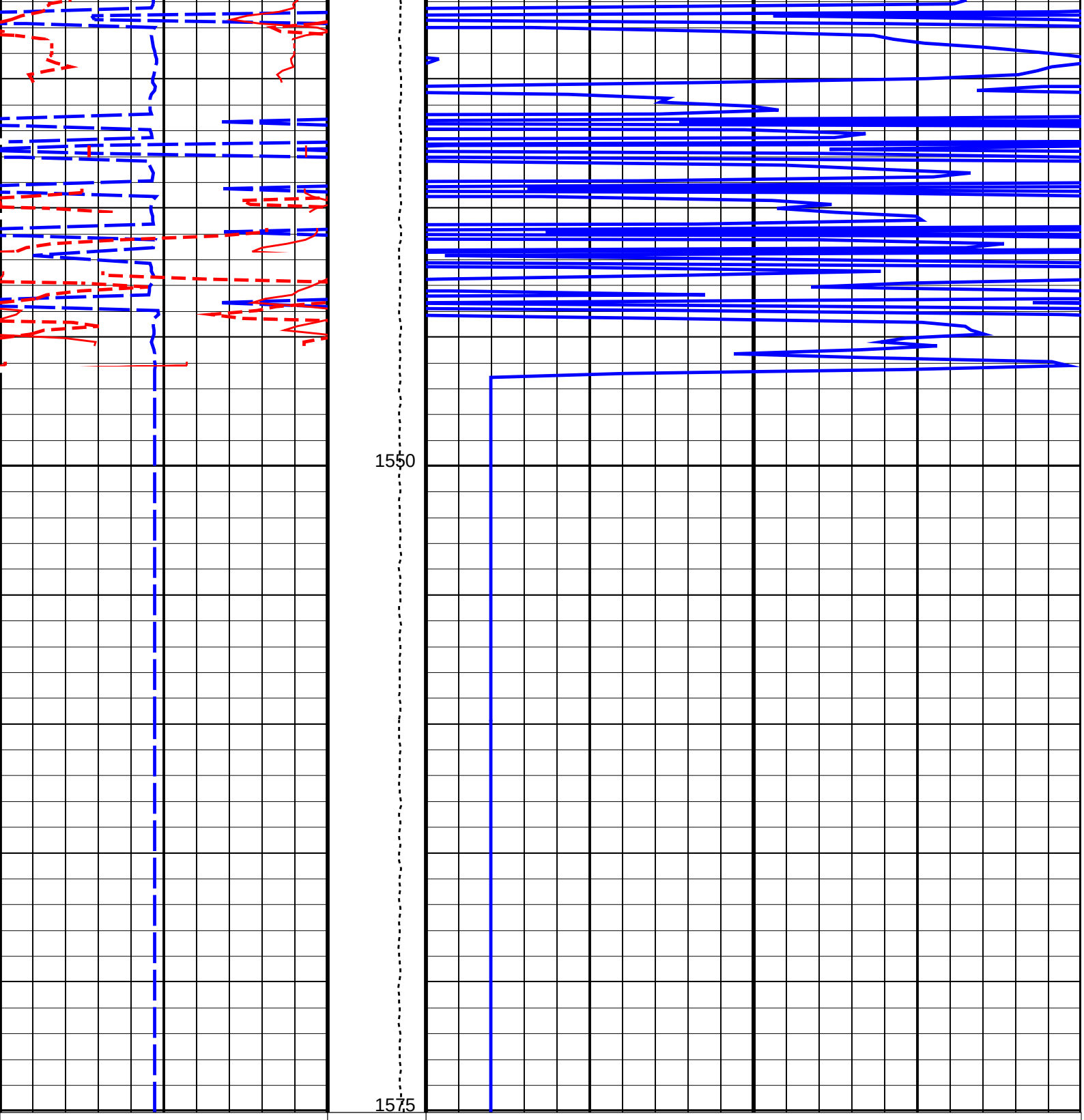


APS Porosity Quality (QSDP)	Tension (TENS) (LBF)	APS Near/Array Corrected Limestone Porosity (APLC)
10 (----) 0	10000 0	60 (PU) 0

APS Formation Capture Cross−Section (SIGF)
0 (CU) 50

APS Total Correction in APLC (PHICOR_APLC)
−10 (PU) 10

APS Quality of Formation Capture Cross−Section (QSGF)
10 (----) 0

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)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
	HLDS: Hostile Litho−Density Sonde		
DPPM	Density Porosity Processing Mode	HIRS	
	APS−C: Accelerator−Porosity Tool		
	APS Software Version	5	
AASD	APS Thermal and Array Detectors High Voltage Setting	1936.01	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2033.55	V
AHCS	APS Holesize Correction Source	BS	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1702.52	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)	35	DEGF
BSCO_APS	APS TNPH Borehole Salinity Correction Option	YES	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source Correction Option	COMPUTED	
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	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	YES	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.07414	
NFRC	APS Near/Far Calibration Ratio	0.966885	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	68	DEGF
TNCO_APS	APS TNPH Computation Option	NO	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	−50000	PPM
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
	System and Miscellaneous		
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	38000.00	PPM
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	60.00	DEGC

MST	Mud Sample Temperature	23.00	DEGC
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	−50000.0000	OHMM
TD	Total Depth	10190.3	FT

Format: APSLiquidPorosity Vertical Scale: 1:200 Graphics File Created: 19−Jun−2024 20:25

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_018LUP	PRODUCER	19−Jun−2024 20:23	1584.8 M	1159.0 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:25	PRODUCER	19−Jun−2024 20:25		
RTB	MSS_LDEO_HRLA_LDL_021PUP	FN:26	PRODUCER	19−Jun−2024 20:25		

Company: International Ocean Discovery Program Well: Expedition 403, Site U1618C

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_018LUP	PRODUCER	19−Jun−2024 20:23	1584.8 M	1159.0 M

Output DLIS Files

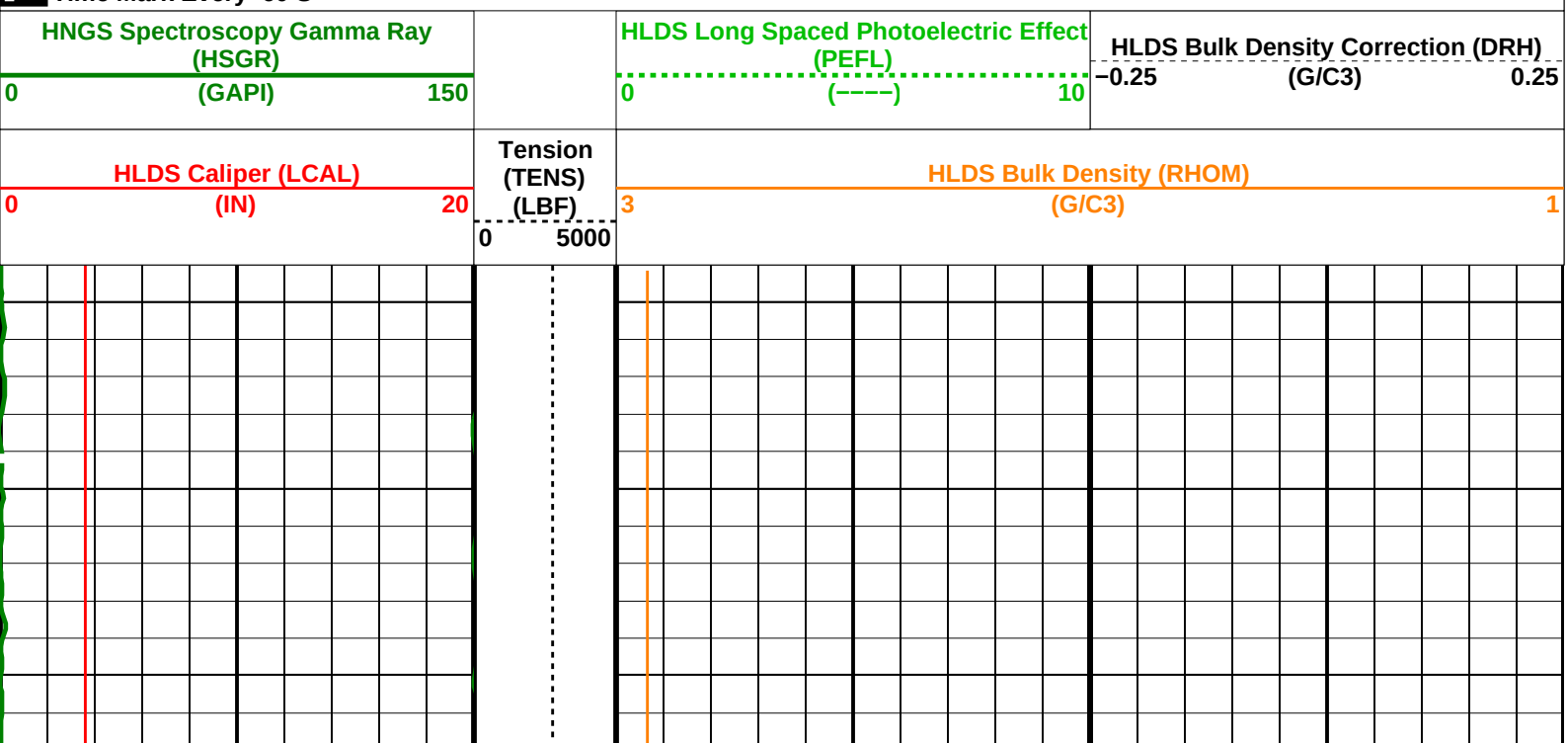
DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:25	PRODUCER	19−Jun−2024 20:25	1575.1 M	1159.0 M
RTB	MSS_LDEO_HRLA_LDL_021PUP	FN:26	PRODUCER	19−Jun−2024 20:25	1575.1 M	1159.0 M

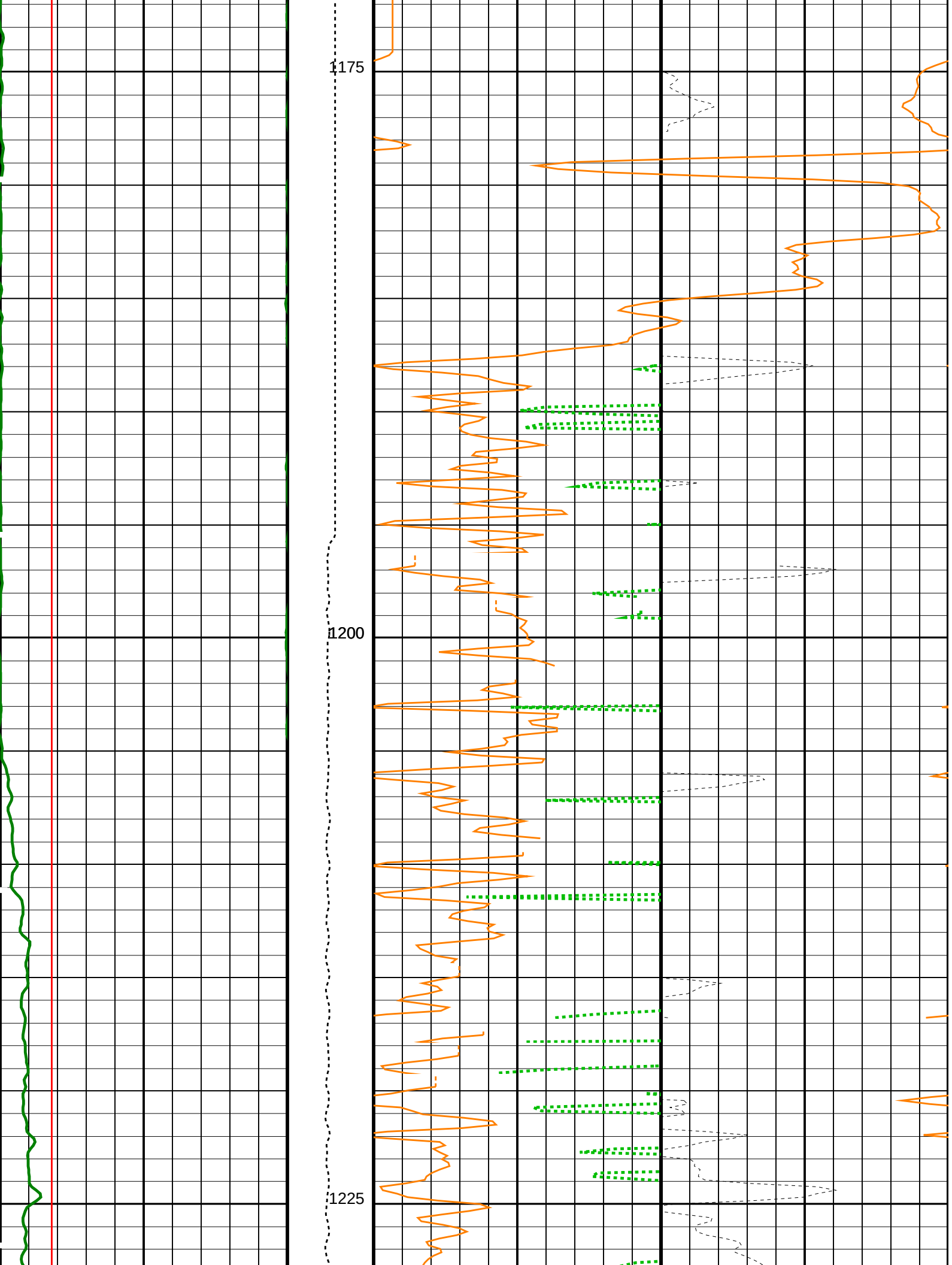
OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

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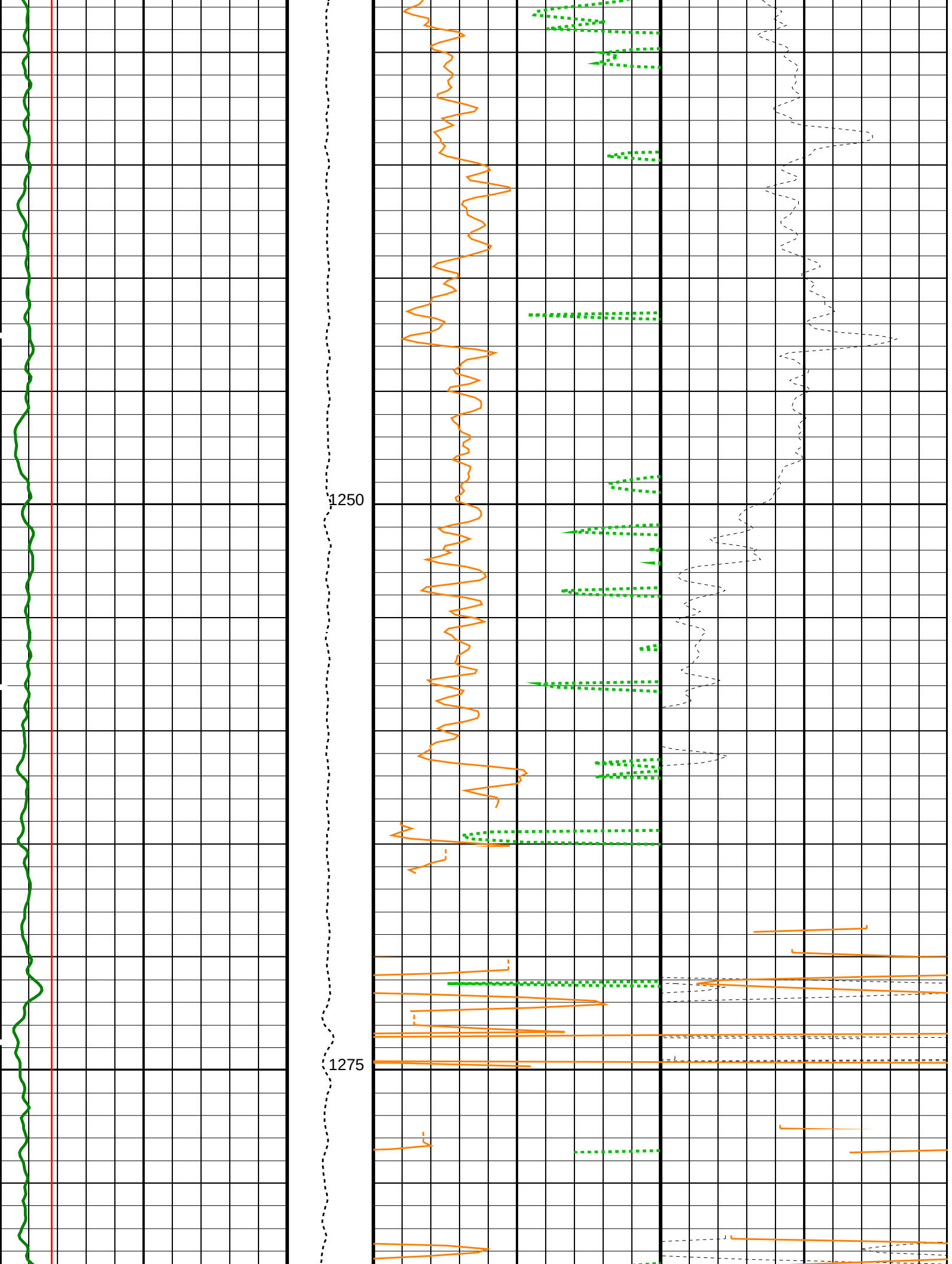
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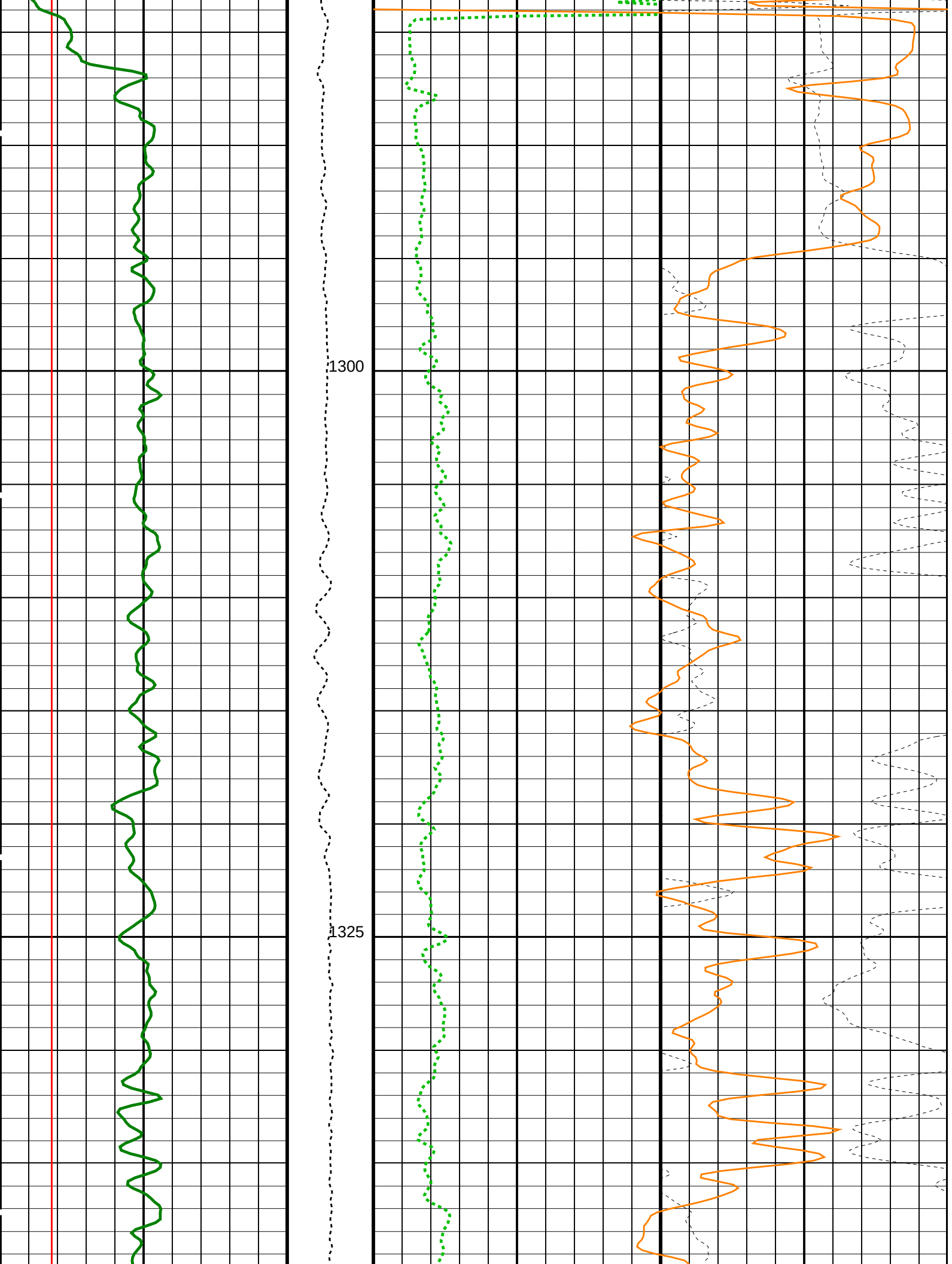
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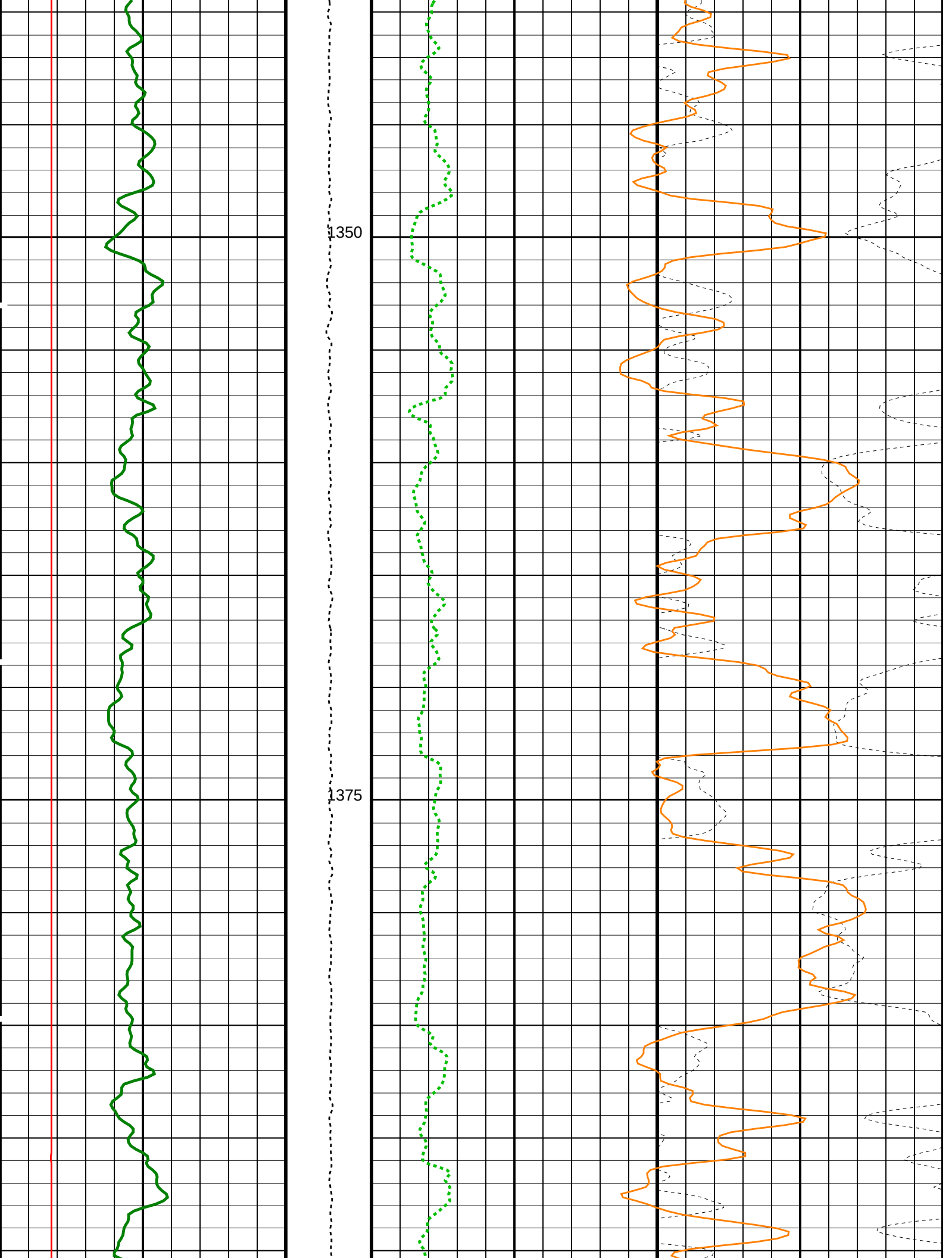
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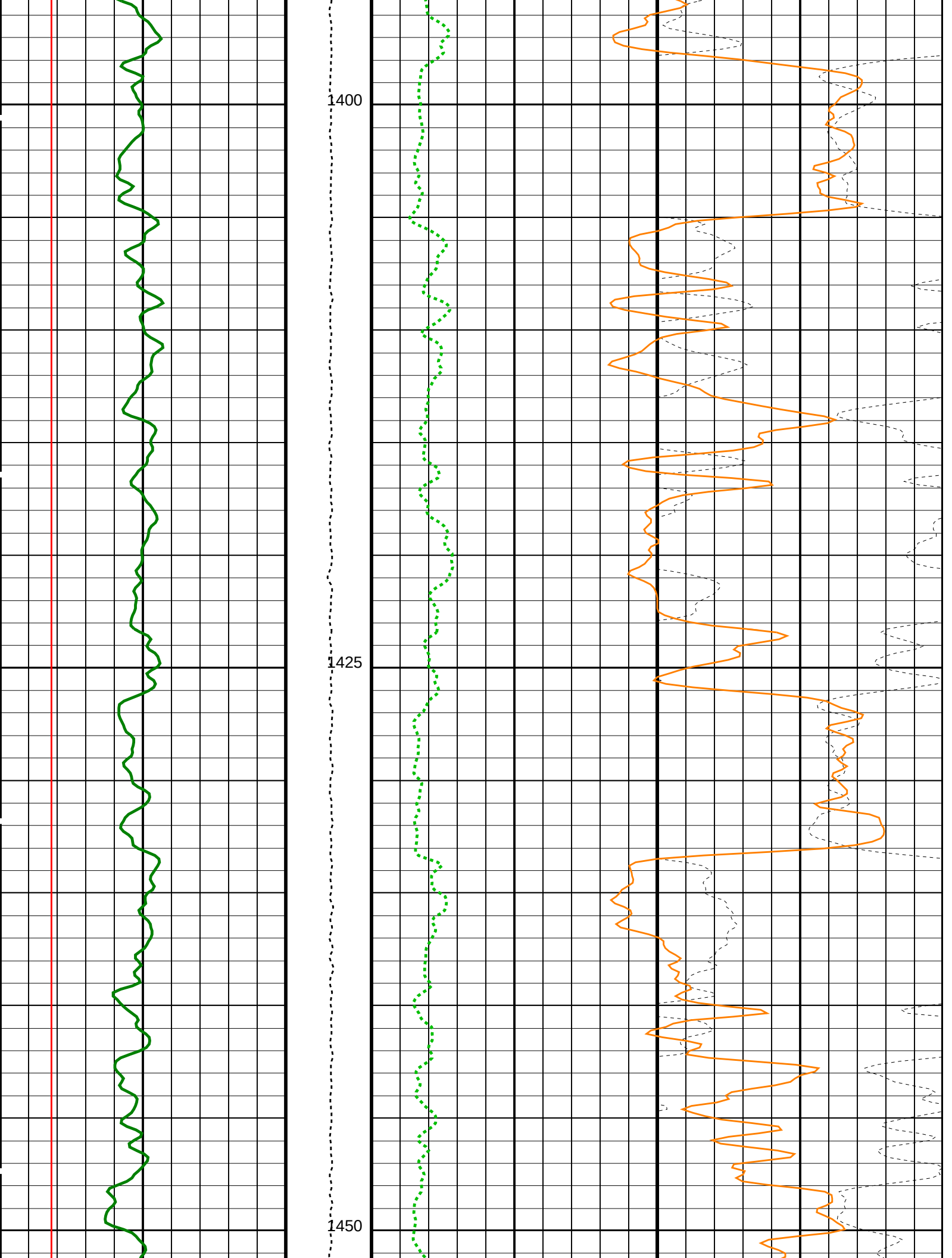
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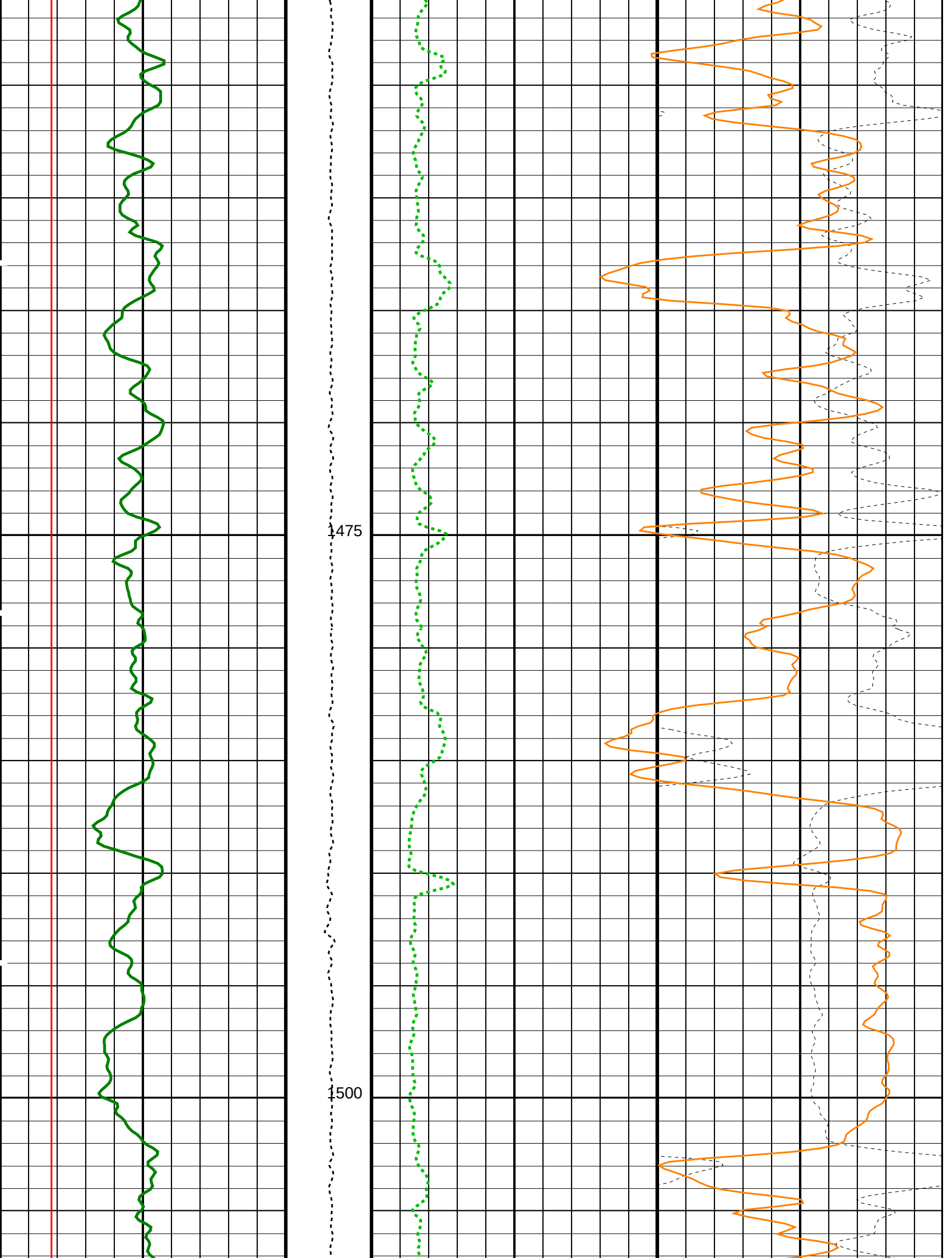
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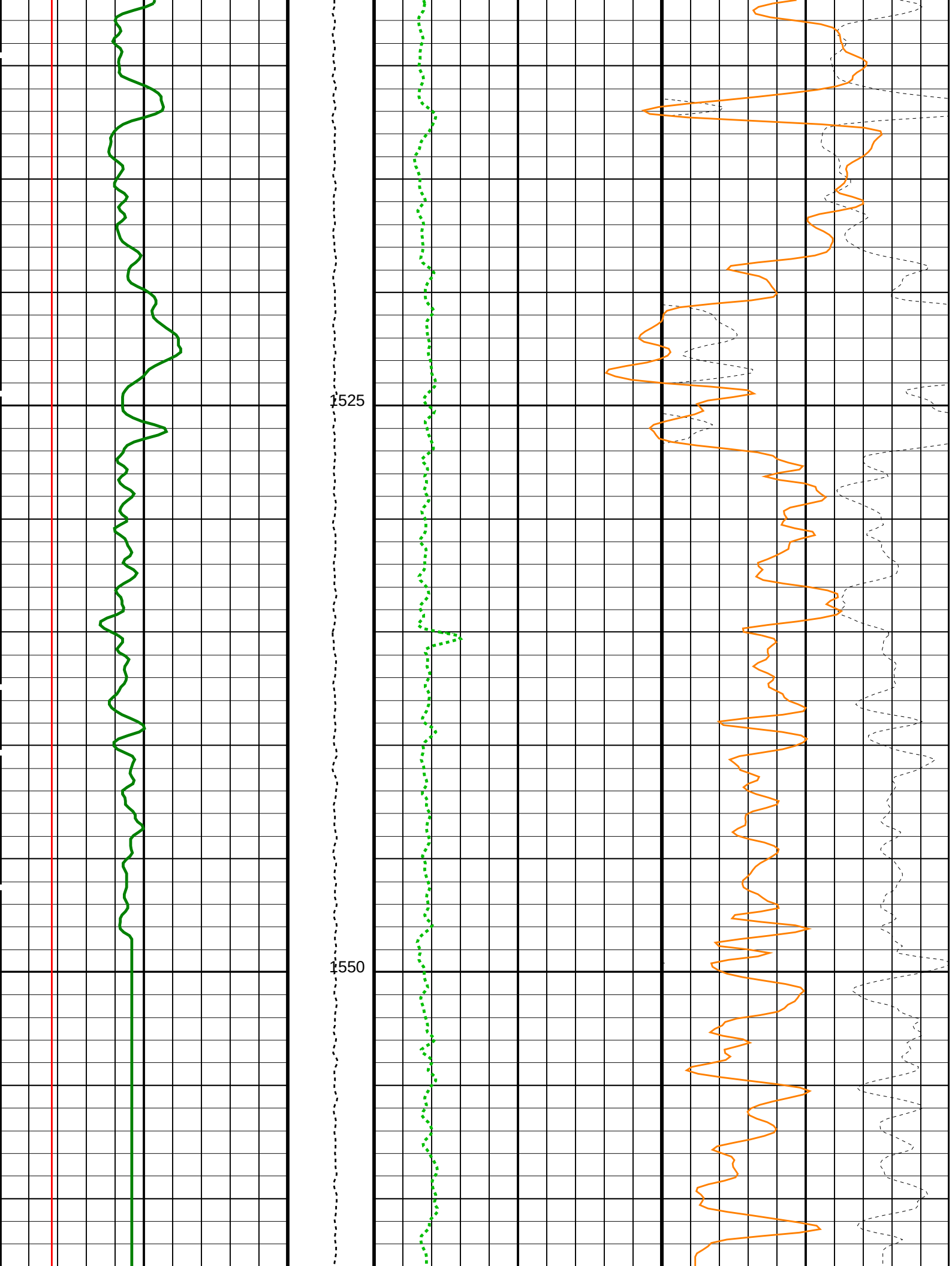
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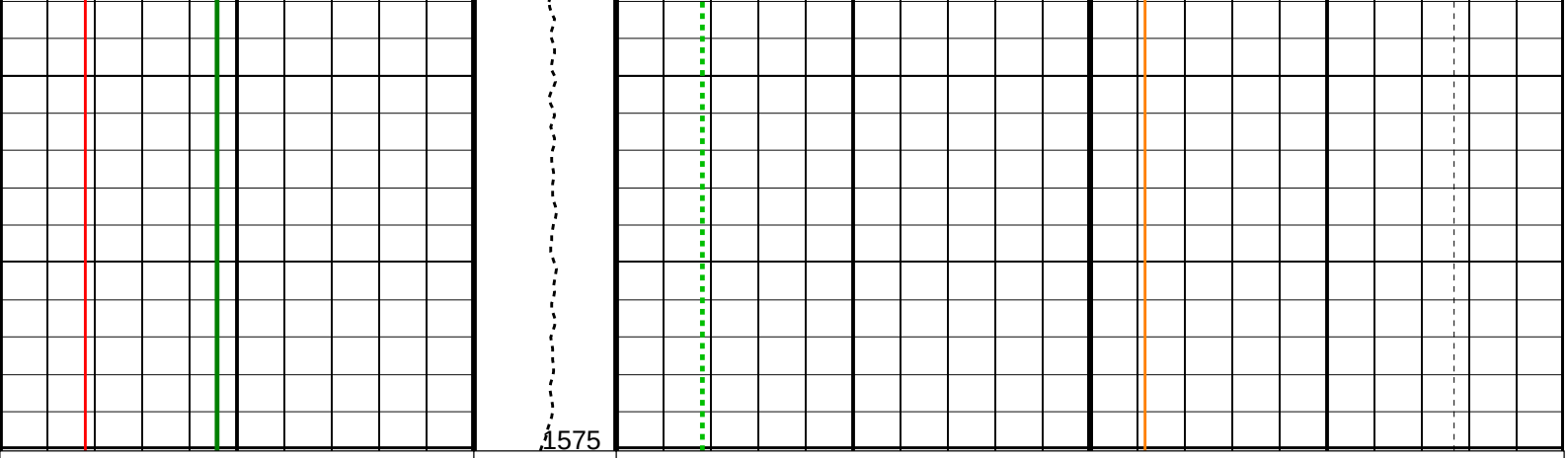


HLDS Caliper (LCAL)	Tension (TENS)	HLDS Bulk Density (RHOM)
0 (IN) 20	(LBF) 0 5000	3 (G/C3) 1

HNGS Spectroscopy Gamma Ray (HSGR)		HLDS Long Spaced Photoelectric Effect (PEFL)	HLDS Bulk Density Correction (DRH)
0 (GAPI) 150		0 (----) 10	−0.25 (G/C3) 0.25

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	HLDS: Hostile Litho−Density Sonde		
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	OFF	
MDEN	Matrix Density	2.6	G/C3
	APS−C: Accelerator−Porosity Tool		
	APS Software Version	5	
BHS	Borehole Status	OPEN	
DPPM	Density Porosity Processing Mode	HIRS	
GCSE	Generalized Caliper Selection	LCAL	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	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	0.0457458	
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	0.933672	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.57664	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
DPPM	Density Porosity Processing Mode	HIRS	
GCSE	Generalized Caliper Selection	LCAL	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HLDSDensityPE Vertical Scale: 1:200 Graphics File Created: 19−Jun−2024 20:25

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_018LUP	PRODUCER	19−Jun−2024 20:23	1584.8 M	1159.0 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:25	PRODUCER	19−Jun−2024 20:25		
RTB	MSS_LDEO_HRLA_LDL_021PUP	FN:26	PRODUCER	19−Jun−2024 20:25		

Company: International Ocean Discovery Program Well: Expedition 403, Site U1618C

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_018LUP	PRODUCER	19−Jun−2024 20:23	1584.8 M	1159.0 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:25	PRODUCER	19−Jun−2024 20:25	1575.1 M	1159.0 M
RTB	MSS_LDEO_HRLA_LDL_021PUP	FN:26	PRODUCER	19−Jun−2024 20:25	1575.1 M	1159.0 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

HRLT Mud Resistivity (RM_HRLT)
0.02 (OHMM) 200

HRLT Resistivity 5 (RLA5)
0.2 (OHMM) 2000

HRLT Resistivity 4 (RLA4)
0.2 (OHMM) 2000

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

HRLT Resistivity 3 (RLA3)
0.2 (OHMM) 2000

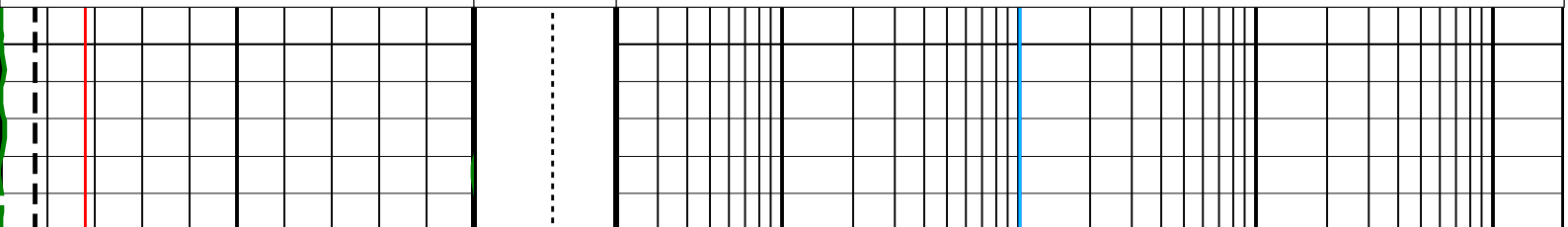
Invasion Diameter (DI_HRLT)
0 (IN) 50

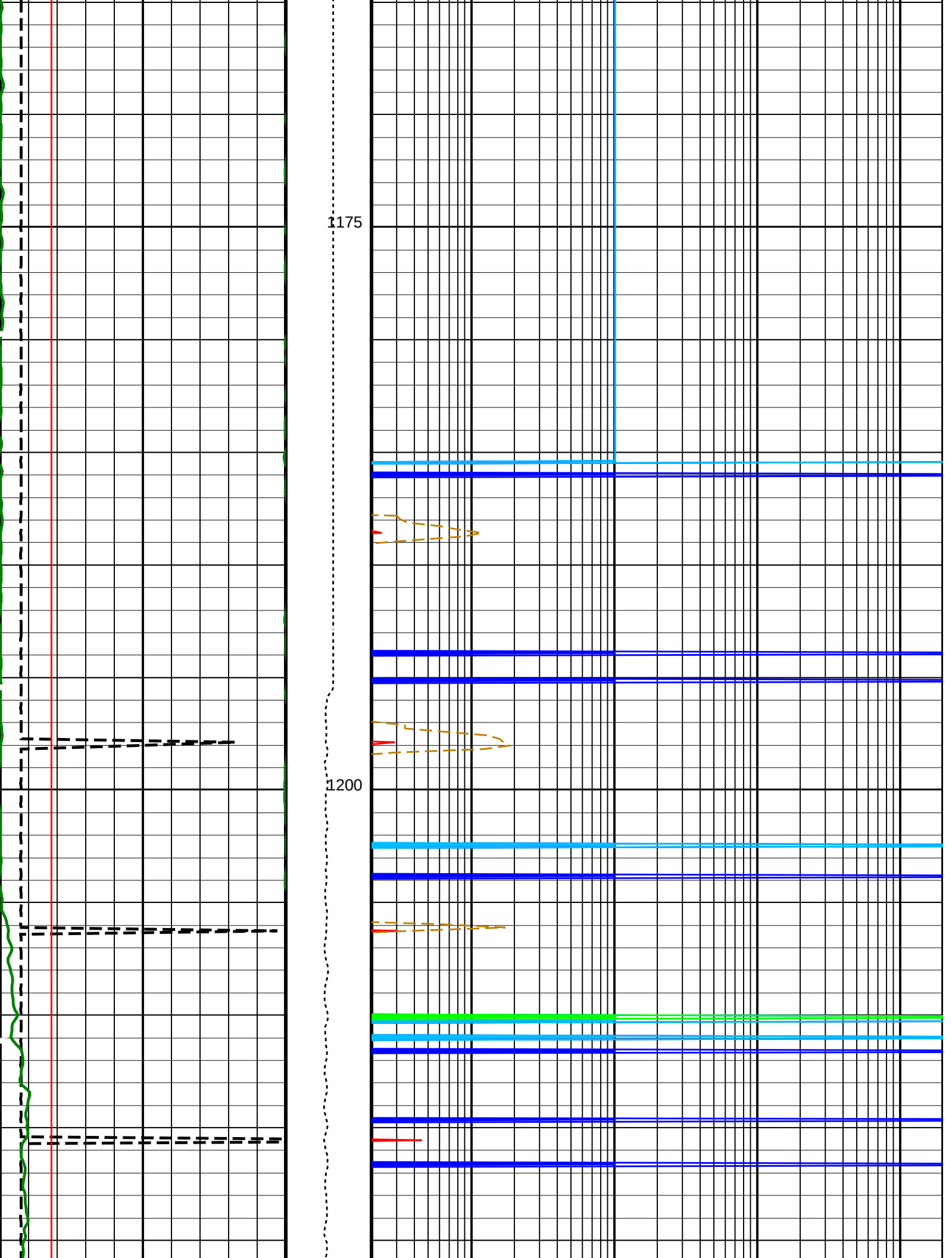
HRLT Resistivity 2 (RLA2)
0.2 (OHMM) 2000

HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

HRLT Resistivity 1 (RLA1)
0.2 (OHMM) 2000

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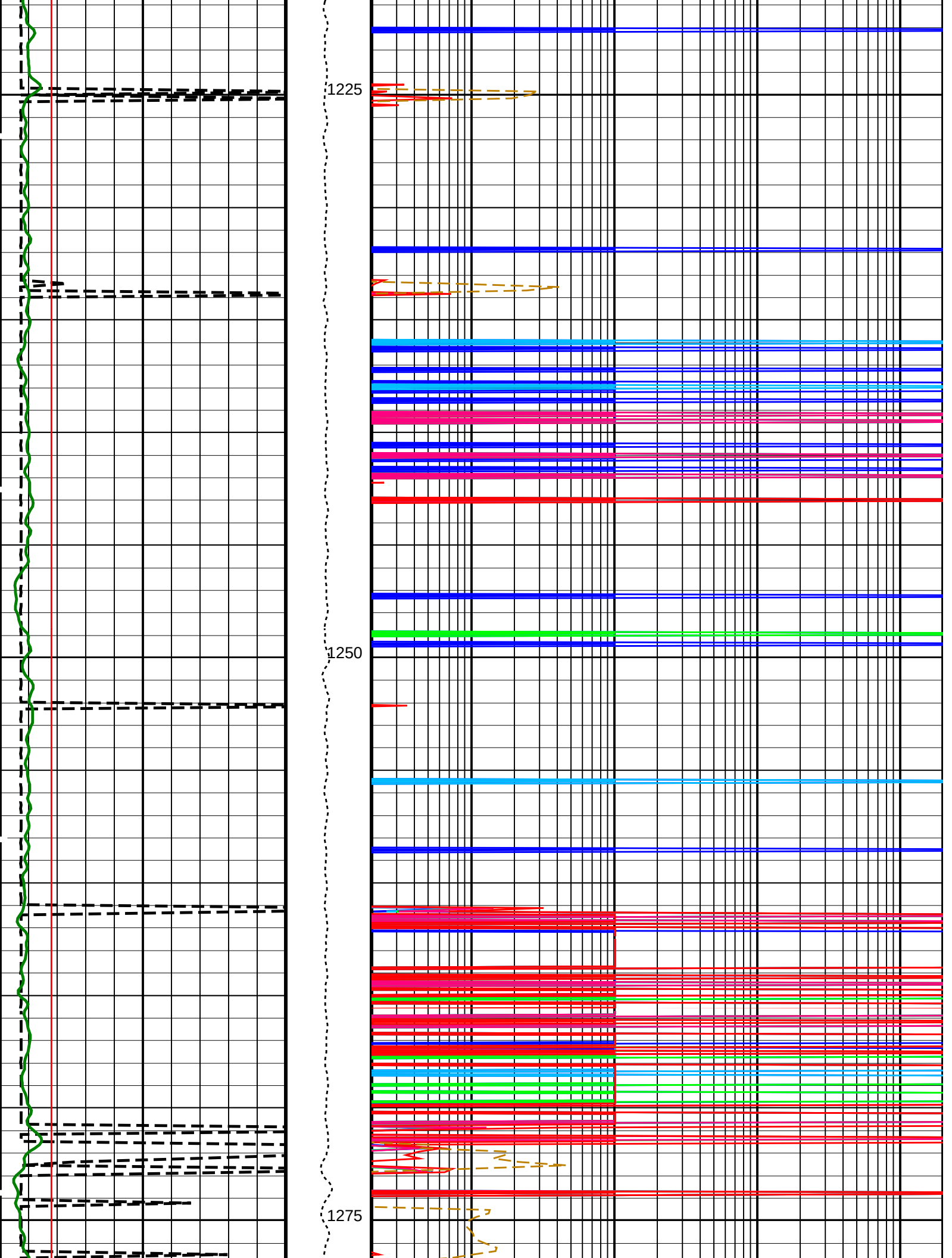
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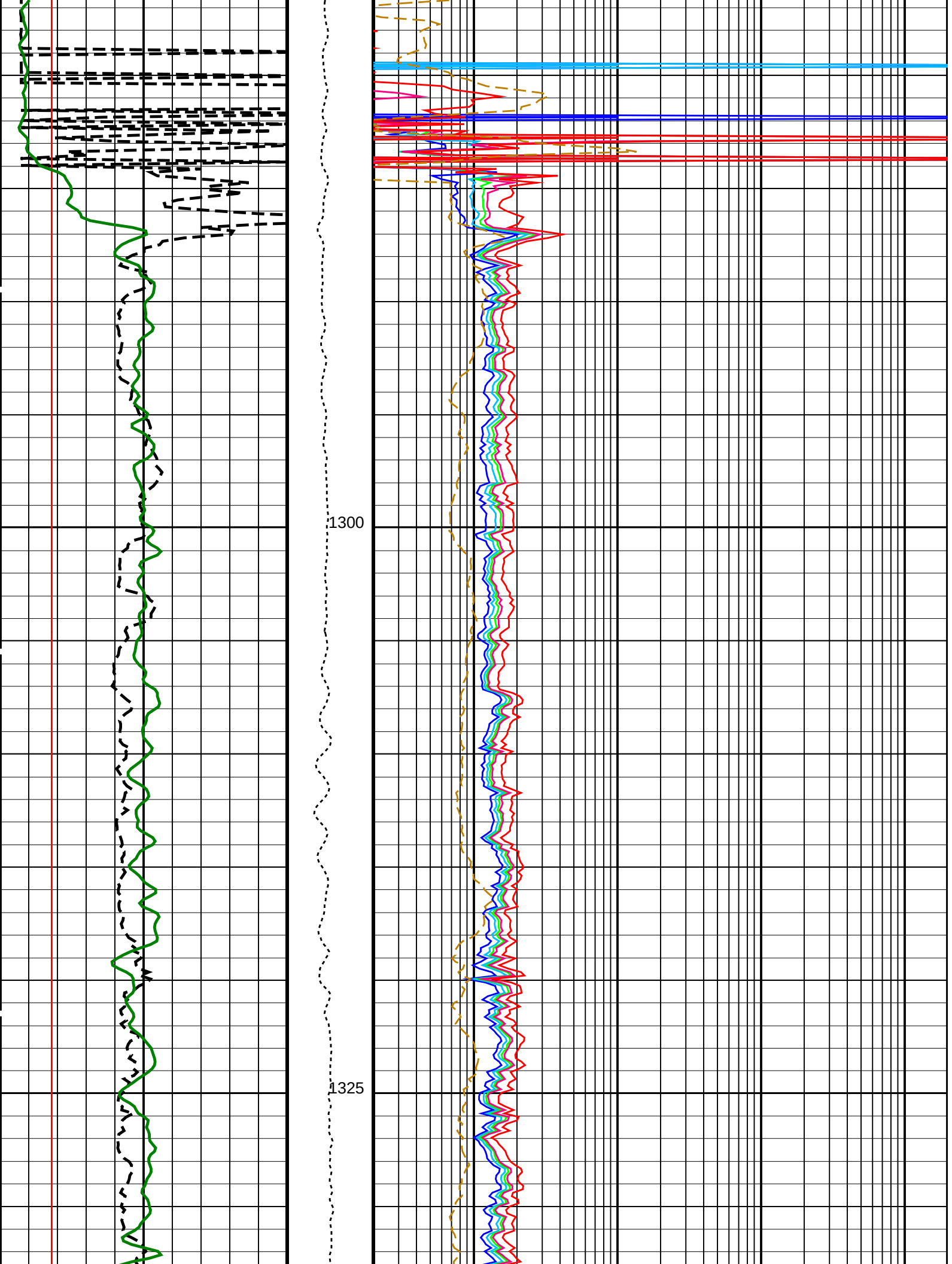
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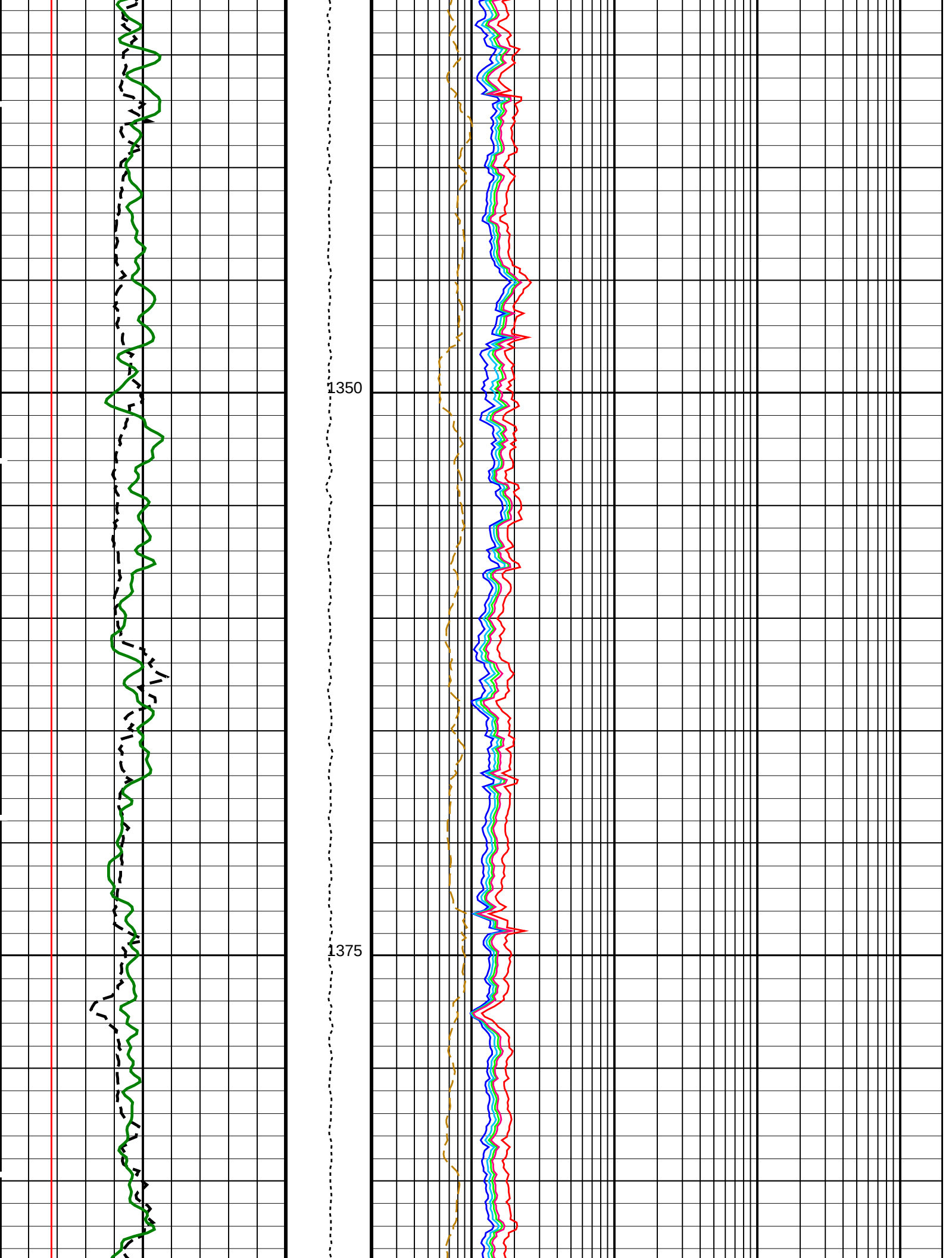
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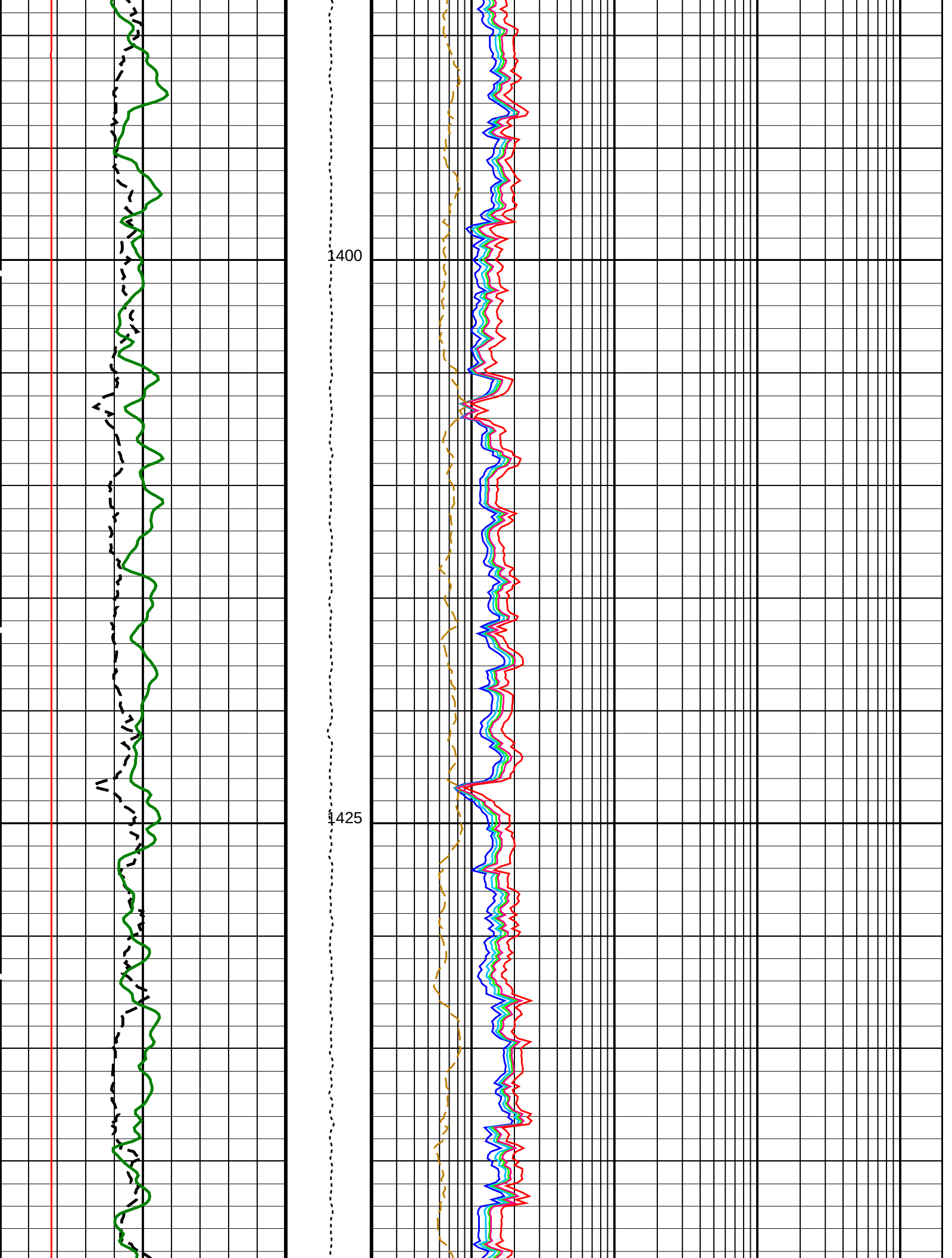
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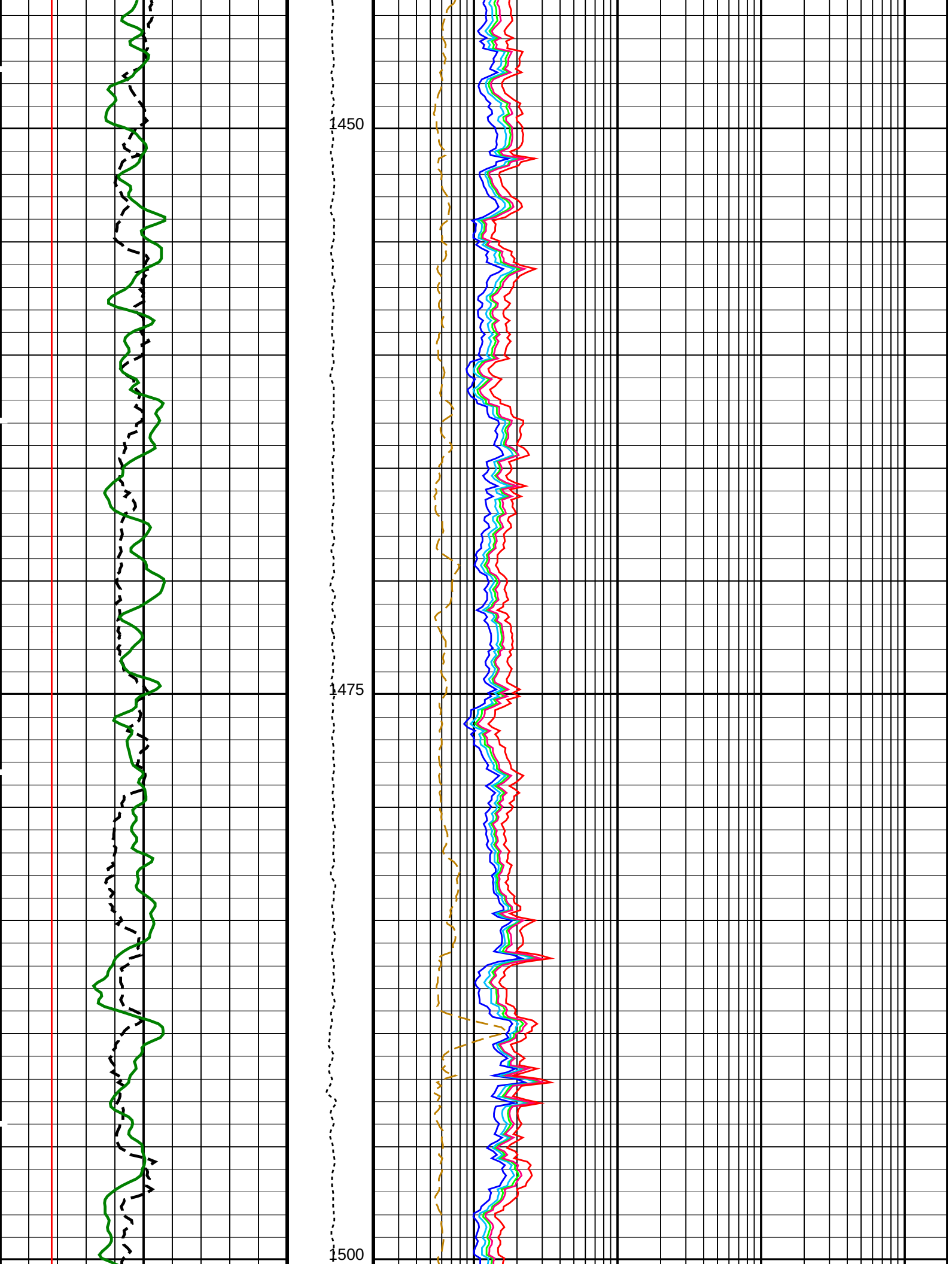
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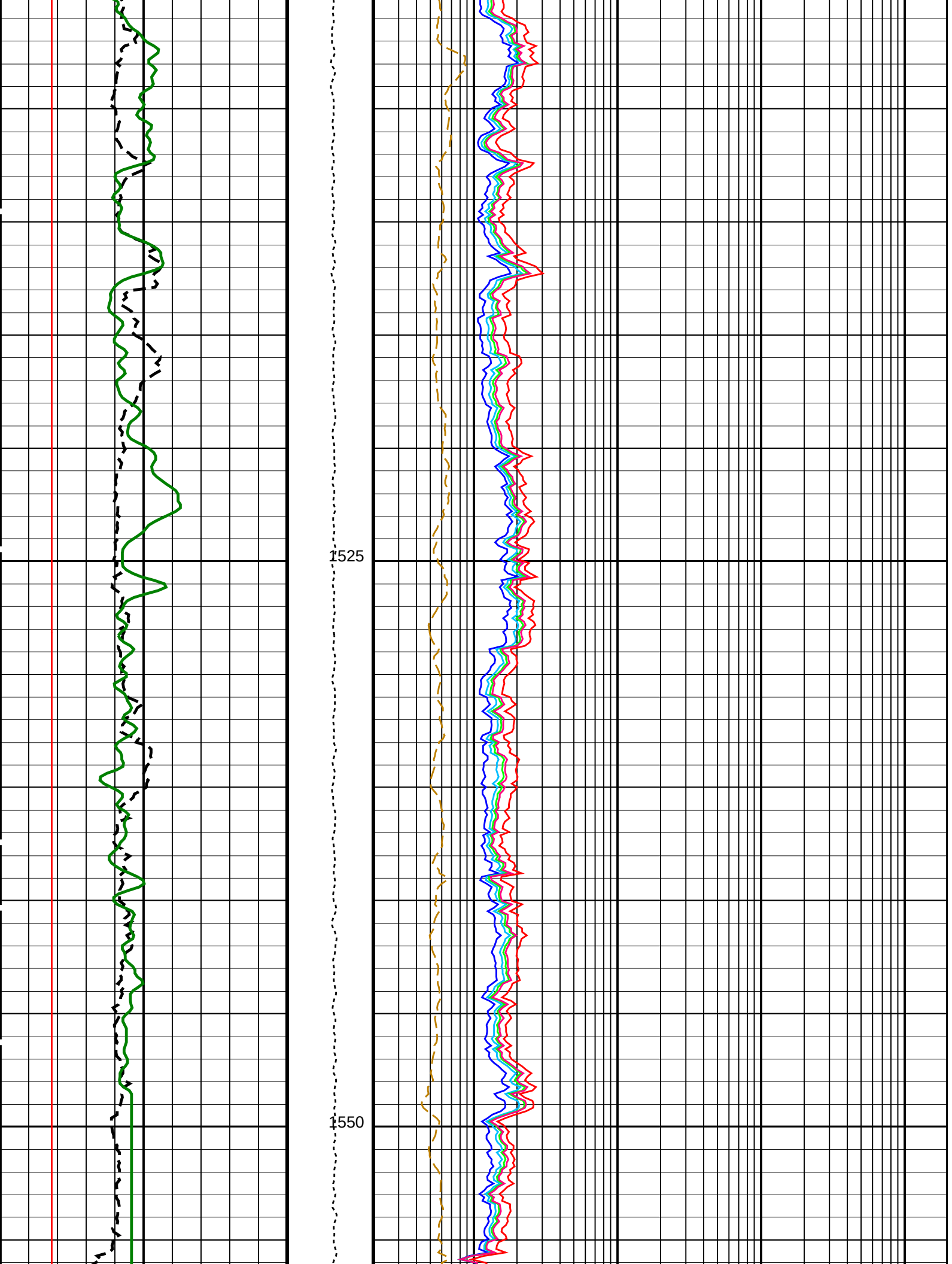
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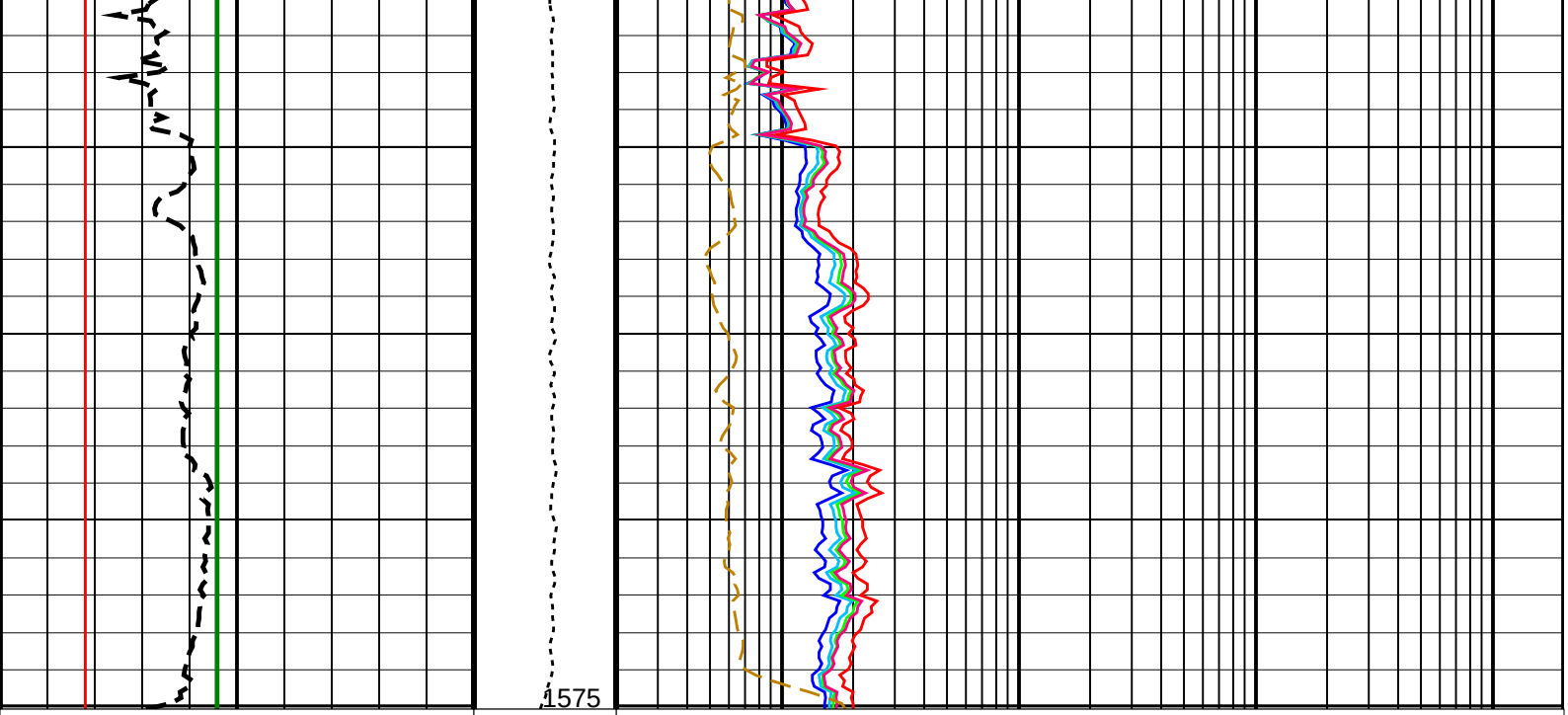


HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

Invasion Diameter (DI_HRLT)
0 (IN) 50

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

HRLT Resistivity 1 (RLA1)
0.2 (OHMM) 2000

HRLT Resistivity 2 (RLA2)
0.2 (OHMM) 2000

HRLT Resistivity 3 (RLA3)
0.2 (OHMM) 2000

HRLT Resistivity 4 (RLA4)
0.2 (OHMM) 2000

HRLT Resistivity 5 (RLA5)
0.2 (OHMM) 2000

HRLT Mud Resistivity (RM_HRLT)
0.02 (OHMM) 200

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)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
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	68	DEGF
	APS−C: Accelerator−Porosity Tool		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
	HNGS−B: Hostile Natural Gamma Ray Sonde		

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)	35	DEGF
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	
GGRD	Geothermal Gradient	0.01	DF/F
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	0.0457458	
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	
SHT	Surface Hole Temperature	68	DEGF
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.933672	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.57664	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
MST	Mud Sample Temperature	23.00	DEGC
PP	Playback Processing	NORMAL	
TD	Total Depth	10190.3	FT

Format: HRLT Vertical Scale: 1:200 Graphics File Created: 19−Jun−2024 20:25

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_018LUP	PRODUCER	19−Jun−2024 20:23	1584.8 M	1159.0 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:25	PRODUCER	19−Jun−2024 20:25		
RTB	MSS_LDEO_HRLA_LDL_021PUP	FN:26	PRODUCER	19−Jun−2024 20:25		

Company: International Ocean Discovery Program Well: Expedition 403, Site U1618C

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_018LUP	PRODUCER	19−Jun−2024 20:23	1584.8 M	1159.0 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:25	PRODUCER	19−Jun−2024 20:25	1575.1 M	1159.0 M
RTB	MSS_LDEO_HRLA_LDL_021PUP	FN:26	PRODUCER	19−Jun−2024 20:25	1575.1 M	1159.0 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

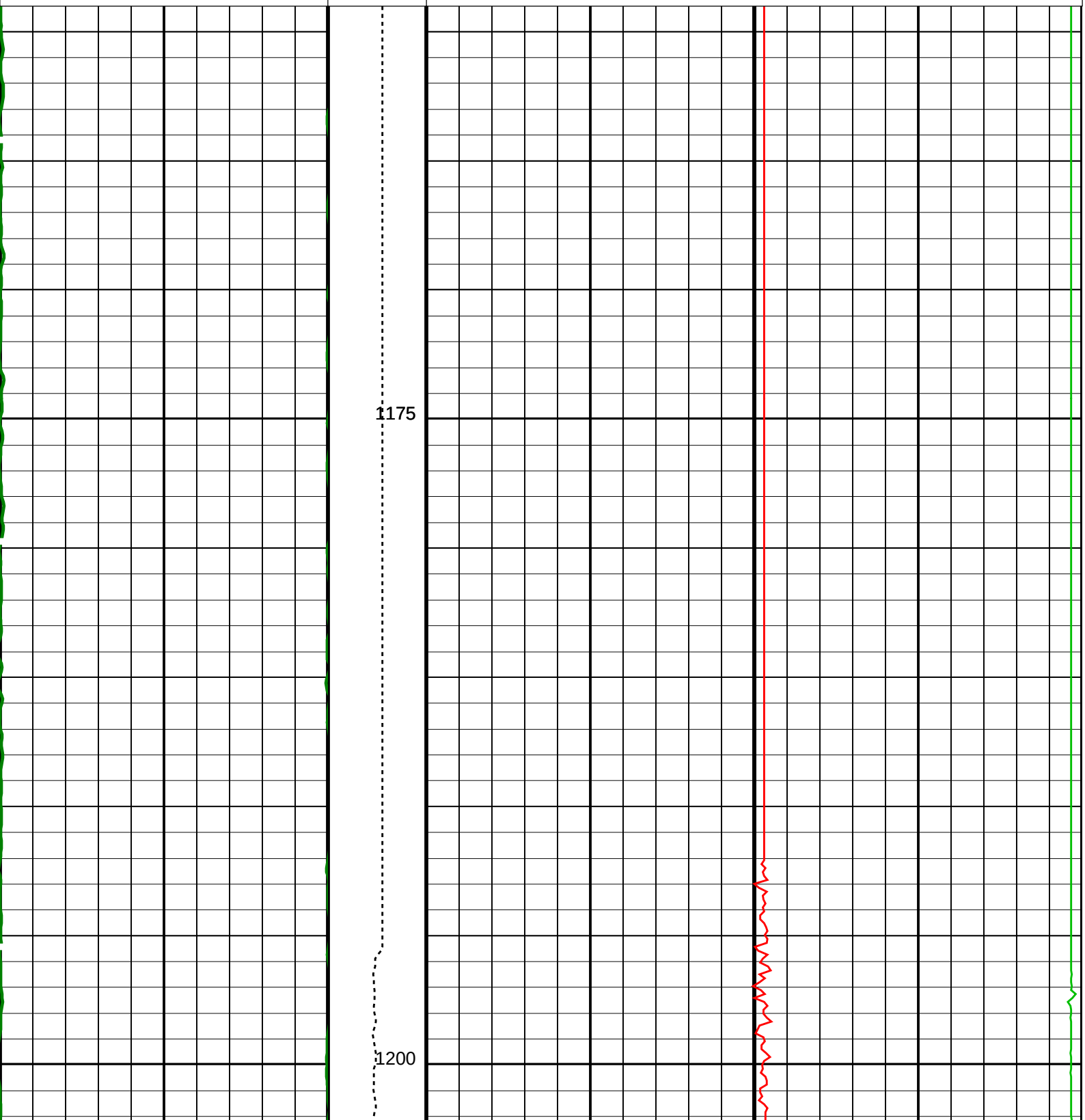
Time Mark Every 60 S

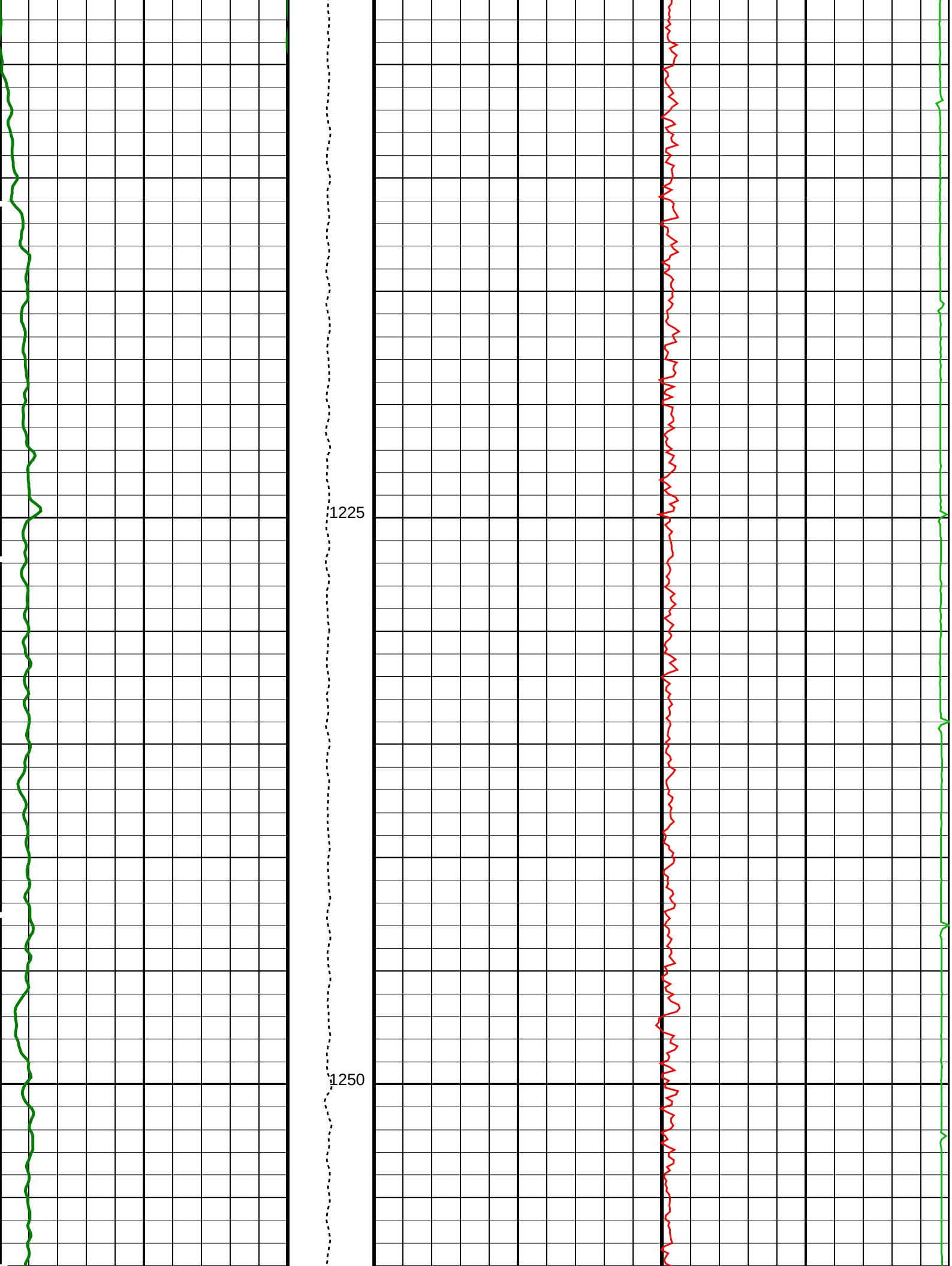
Dual−Coil Susceptibility (MSSLSUS_LDEO)
−10000 (PPM) 90000

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

Tension (TENS) (LBF)
0 5000

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

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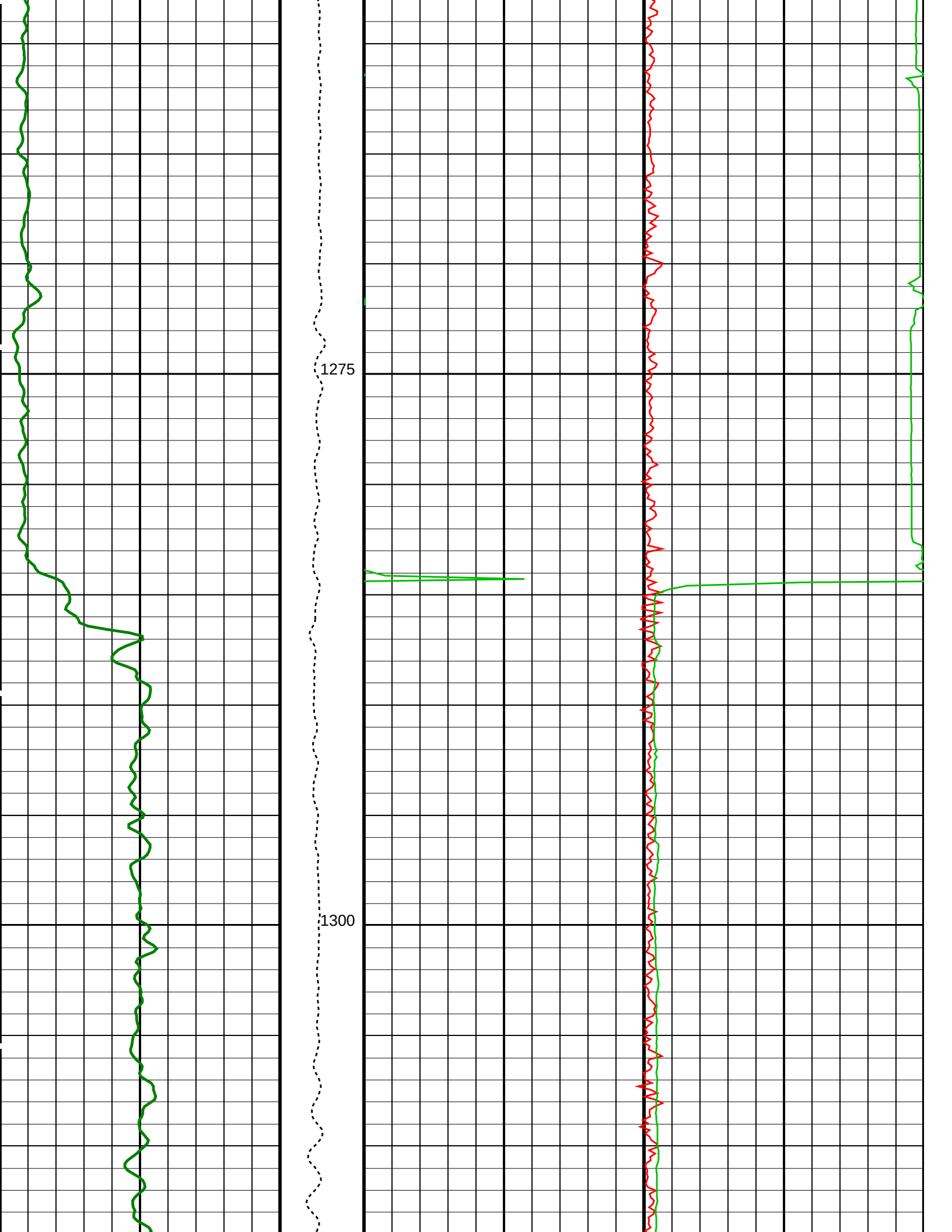
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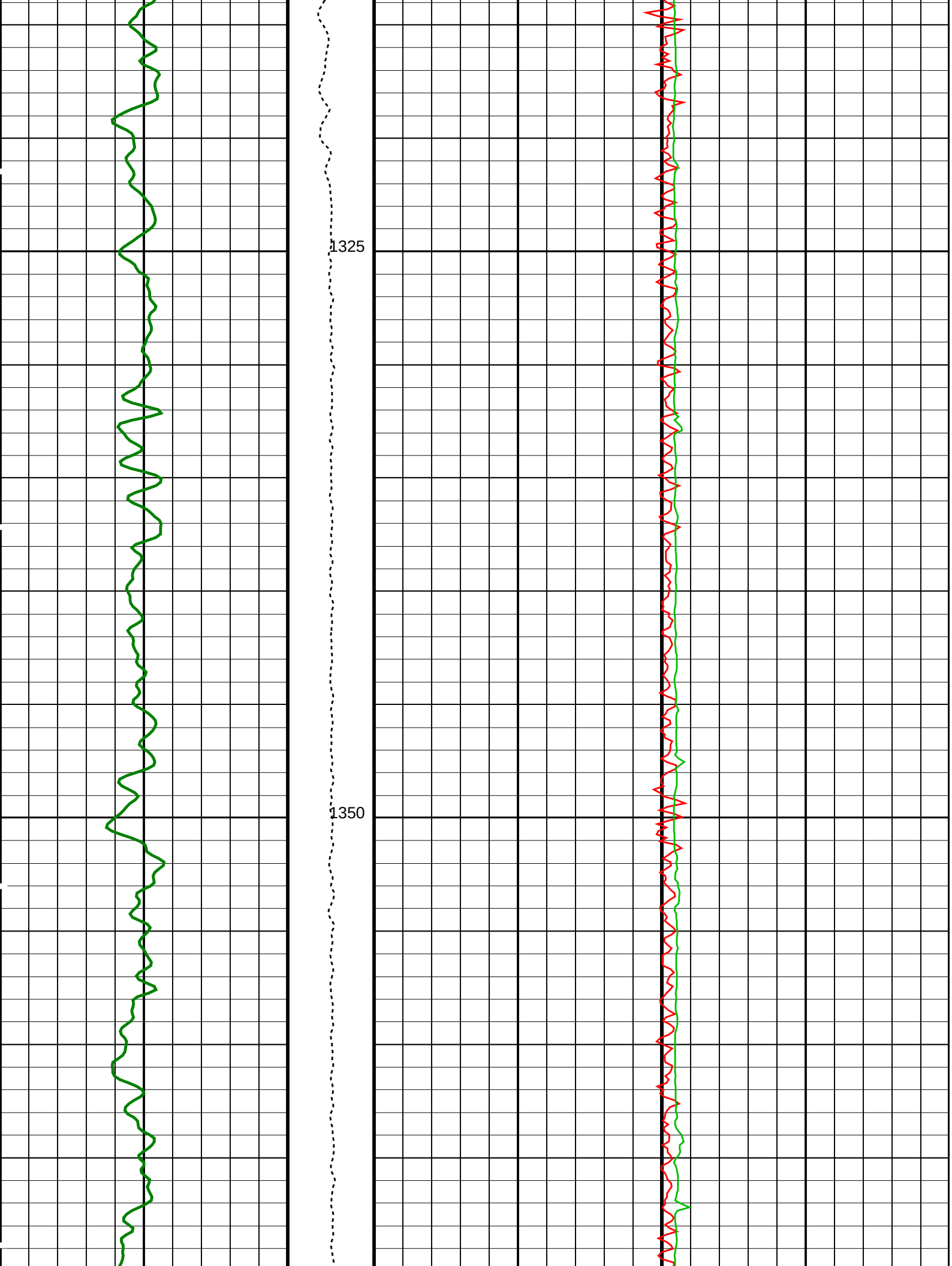
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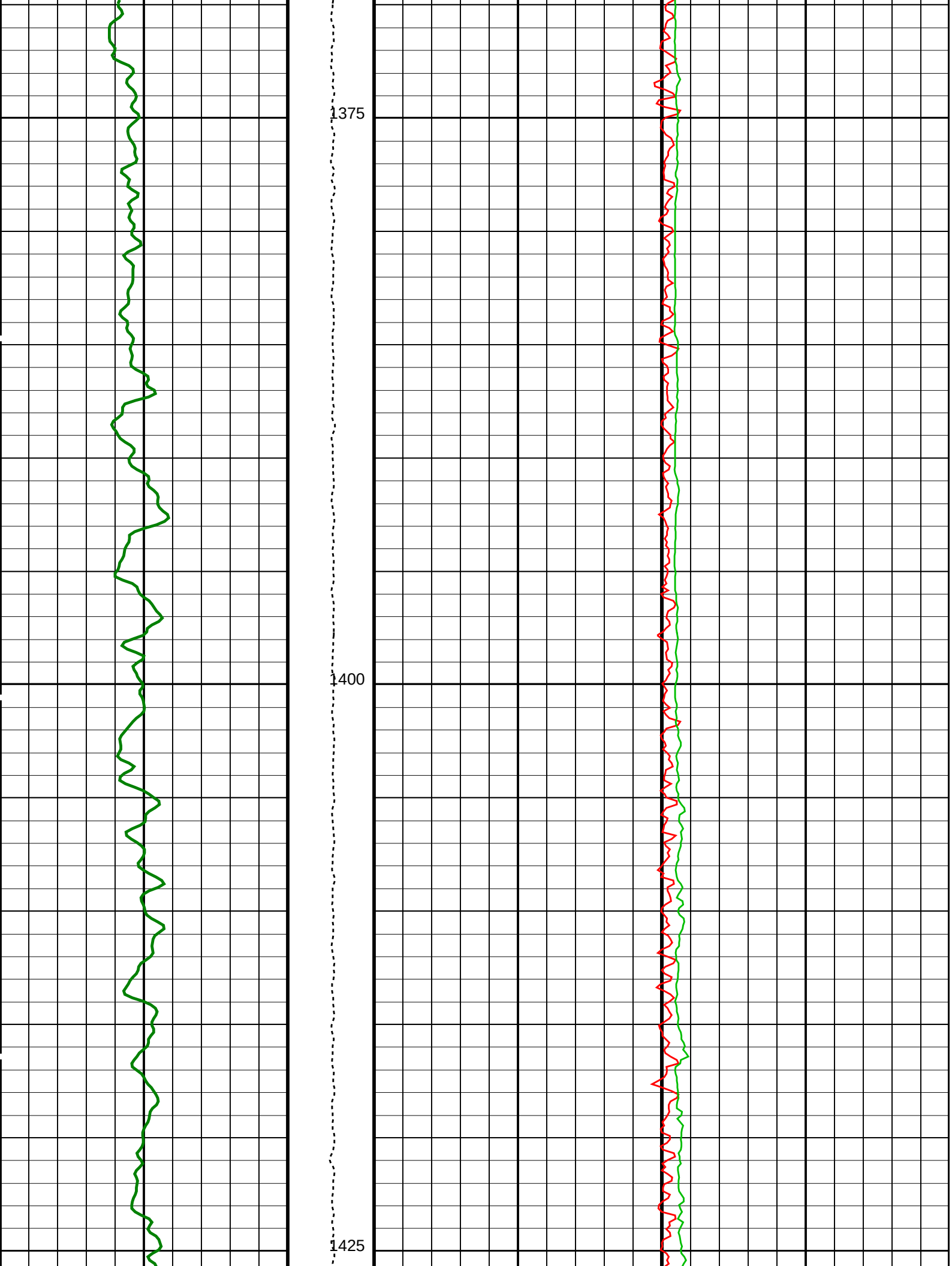
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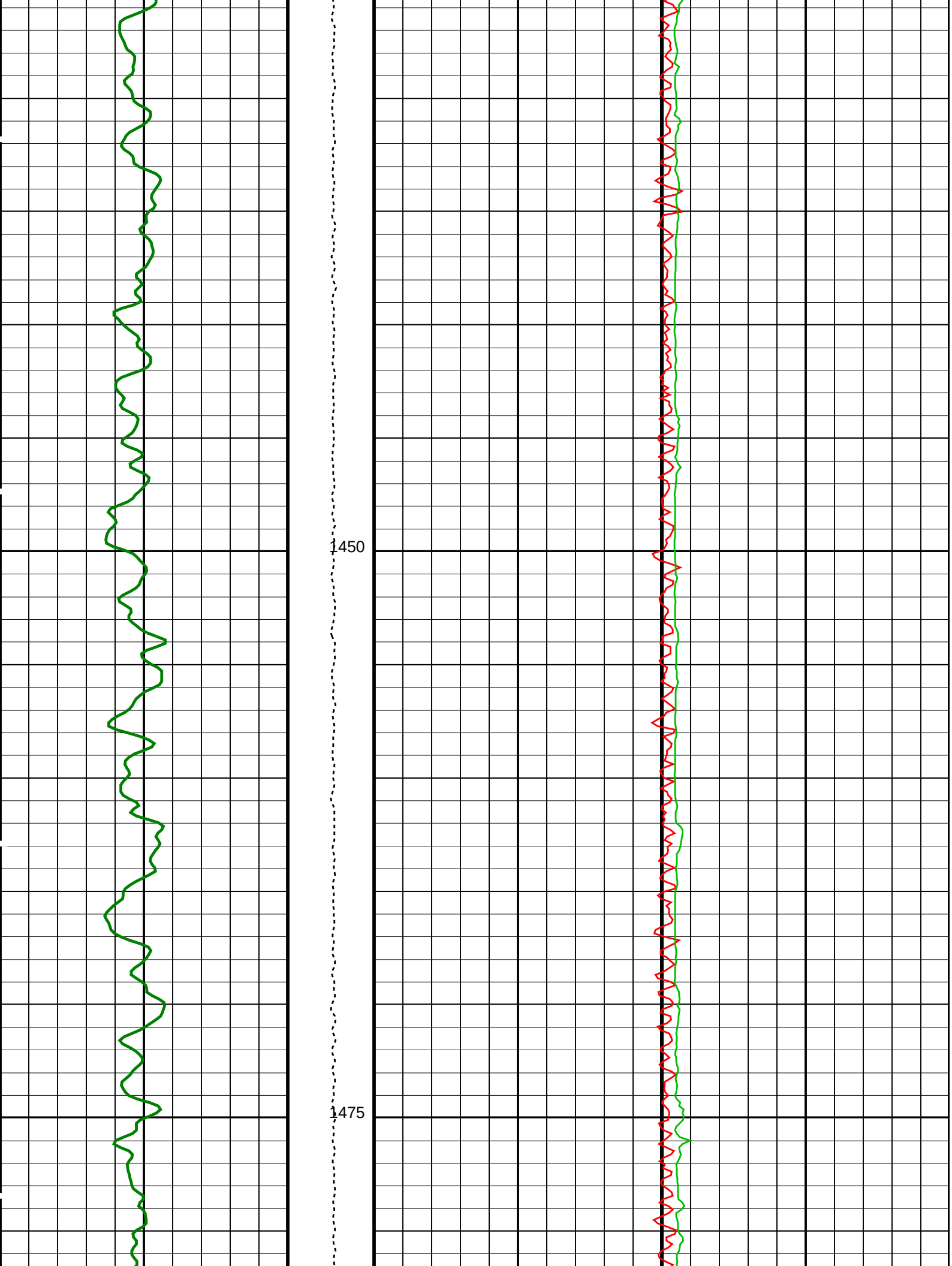
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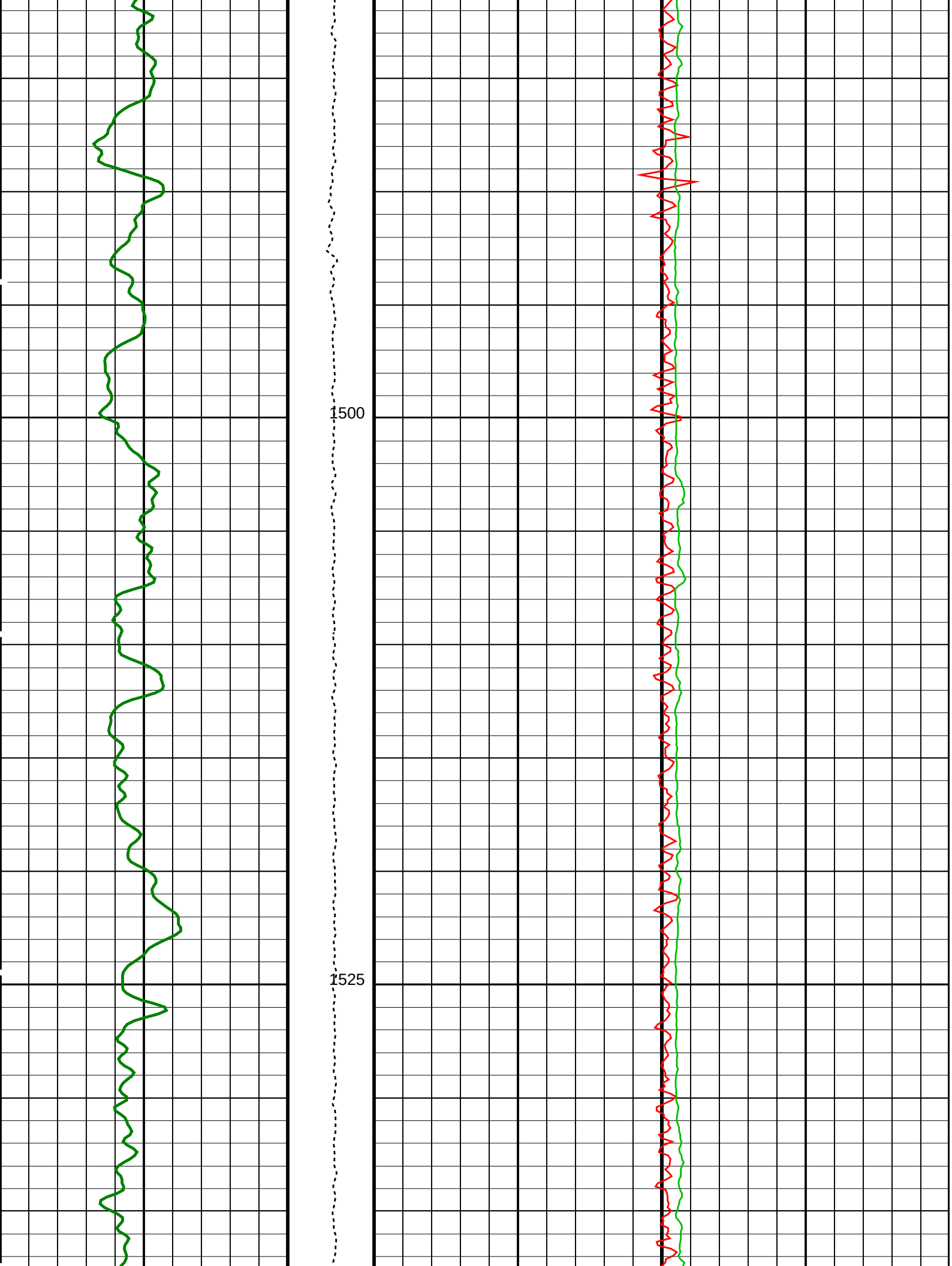
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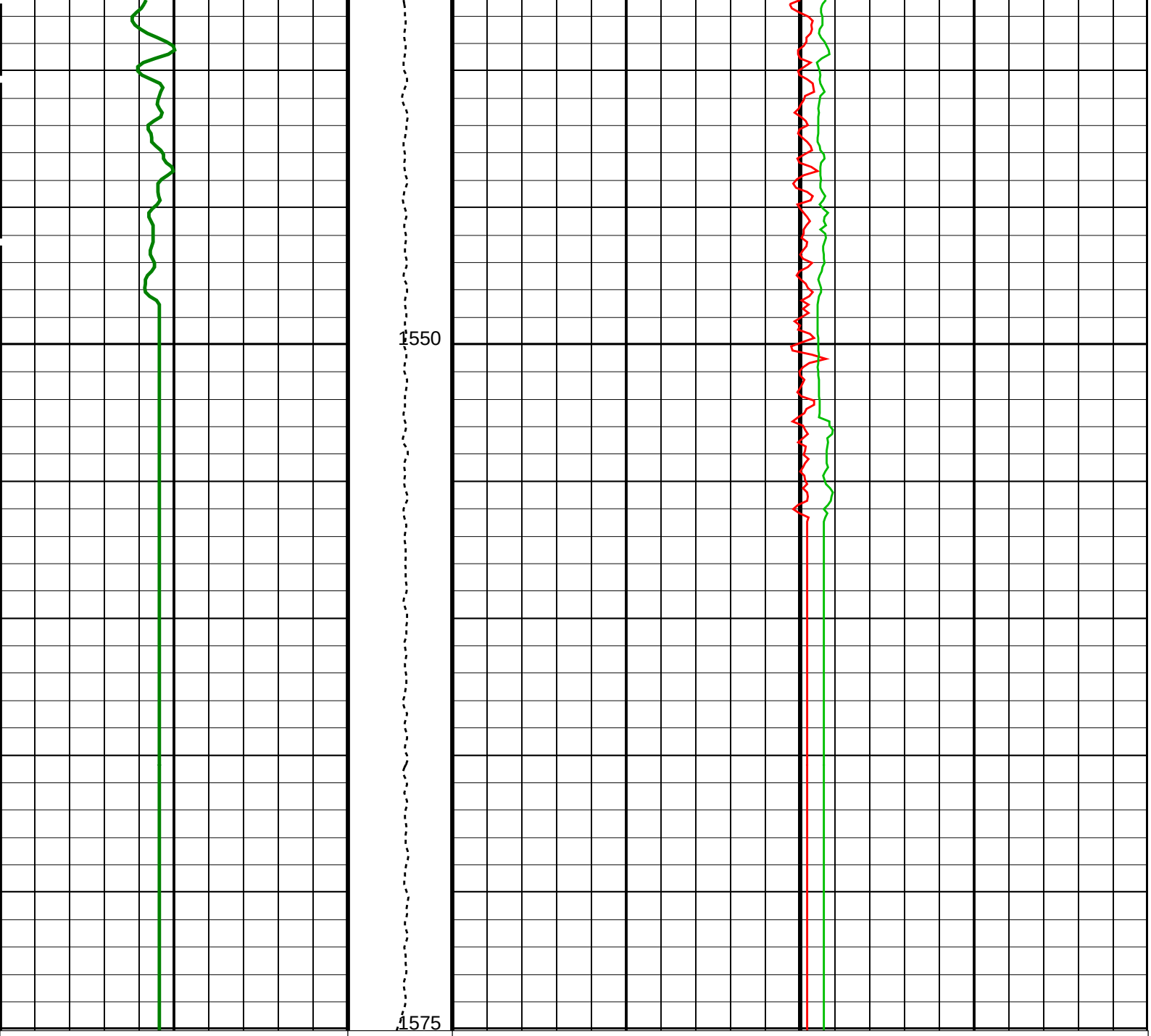


HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

Tension (TENS) (LBF)
0 5000

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

Dual−Coil Susceptibility (MSSLSUS_LDEO)
−10000 (PPM) 90000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
	HRLT−B: High Resolution Laterolog Array − B	
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
	APS−C: Accelerator−Porosity Tool	
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
	HNGS−BA: Hostile Natural Gamma Ray Sonde	
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0

BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	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	0.0457458	
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	0.933672	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.57664	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 19−Jun−2024 20:25

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_018LUP	PRODUCER	19−Jun−2024 20:23	1584.8 M	1159.0 M

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:25	PRODUCER	19−Jun−2024 20:25
RTB	MSS_LDEO_HRLA_LDL_021PUP	FN:26	PRODUCER	19−Jun−2024 20:25

Schlumberger

Repeat Pass
1:200 Scale

MAXIS Field Log

Company: International Ocean Discovery Program Well: Expedition 403, Site U1618C

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:16	PRODUCER	19−Jun−2024 18:03
RTB	MSS_LDEO_HRLA_LDL_015LUP	FN:17	PRODUCER	19−Jun−2024 18:03

OP System Version: 19C0−187

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

HNGS−BA 19C0−187 EDTC−B 19C0−187

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

HNGS Borehole Potassium (HBHK)
−0.01 (V/V) 0.01

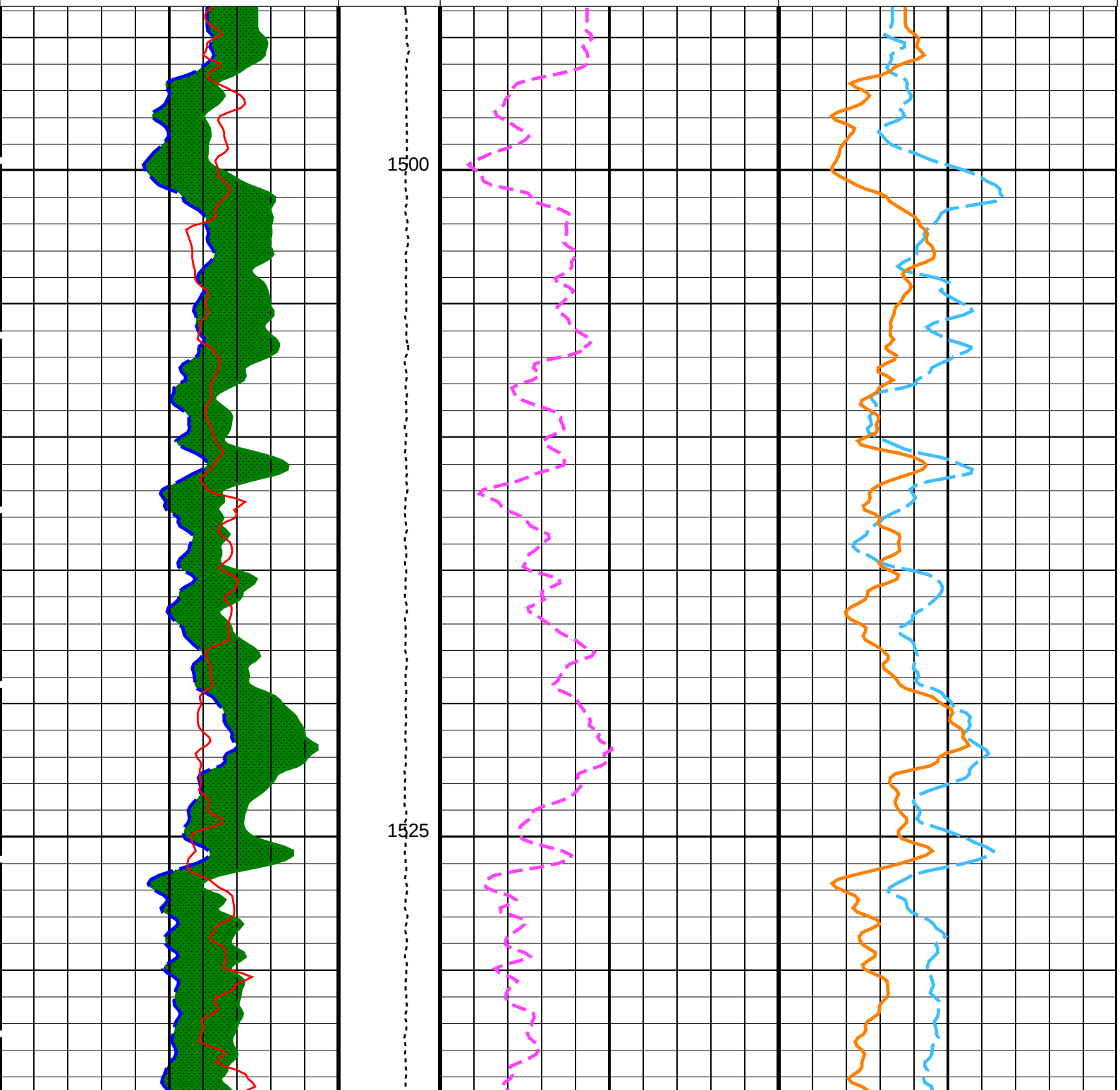
HNGS Uranium (HURA)
−5 (PPM) 5

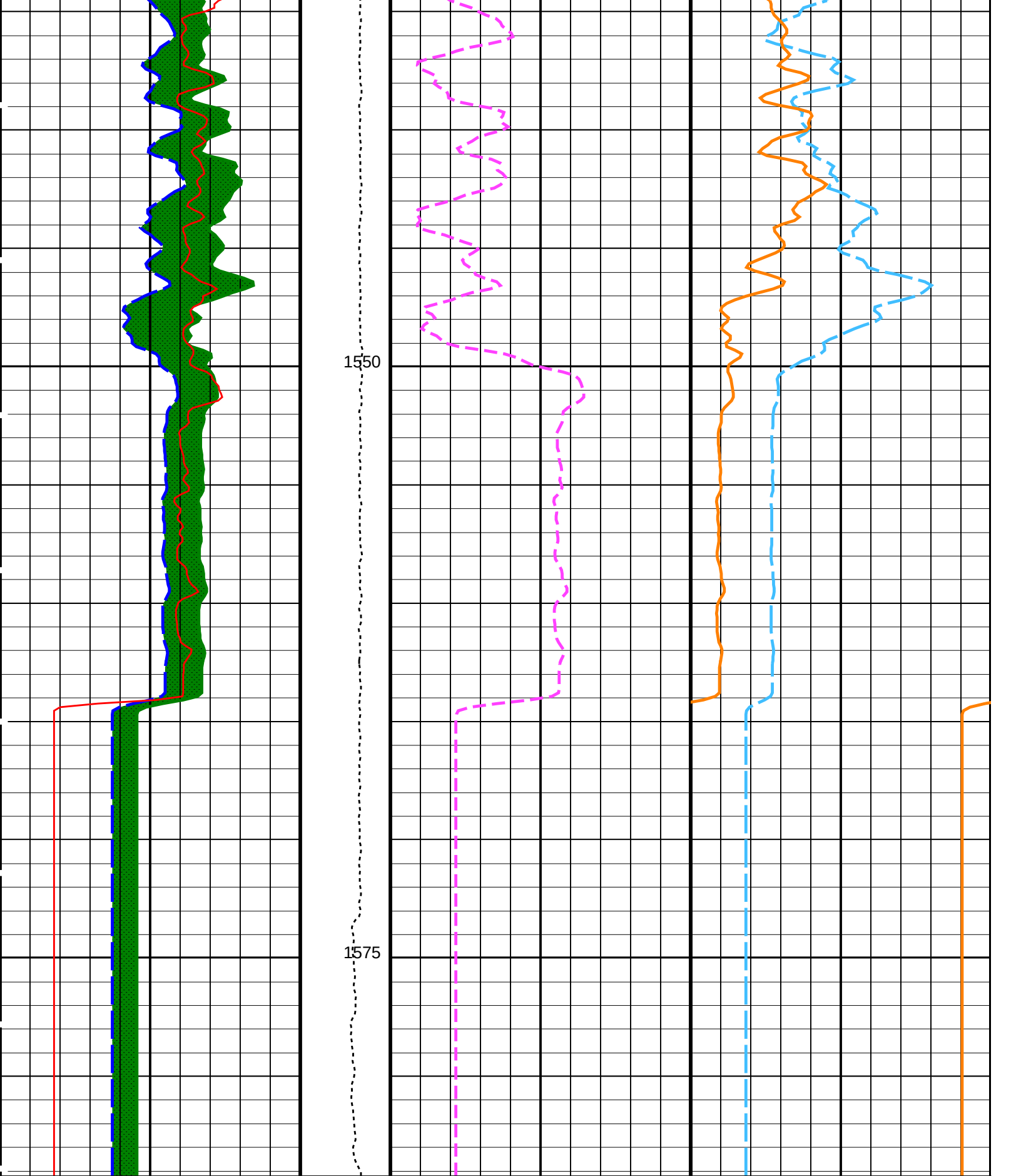
HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
−5 (PPM) 5

HNGS Potassium (HFK)
−0.01 (V/V) 0.01





HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
−5 (PPM) 5

HNGS Potassium (HFK)
−0.01 (V/V) 0.01

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

HNGS Uranium (HURA)
−5 (PPM) 5

Area1
From HCGR to HSGR

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

HNGS Borehole Potassium (HBHK)
−0.01 (V/V) 0.01

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	APS−C: Accelerator−Porosity Tool		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	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	−0.00179017	
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	0.987782	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970323	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 19−Jun−2024 18:03

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:16	PRODUCER	19−Jun−2024 18:03		
RTB	MSS_LDEO_HRLA_LDL_015LUP	FN:17	PRODUCER	19−Jun−2024 18:03		

Company: International Ocean Discovery Program Well: Expedition 403, Site U1618C

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:16	PRODUCER	19−Jun−2024 18:03	1584.2 M	1495.0 M
RTB	MSS_LDEO_HRLA_LDL_015LUP	FN:17	PRODUCER	19−Jun−2024 18:03	1584.2 M	1495.0 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

APS Quality of Formation Capture Cross−Section (QSGF)
10 (−−−−) 0

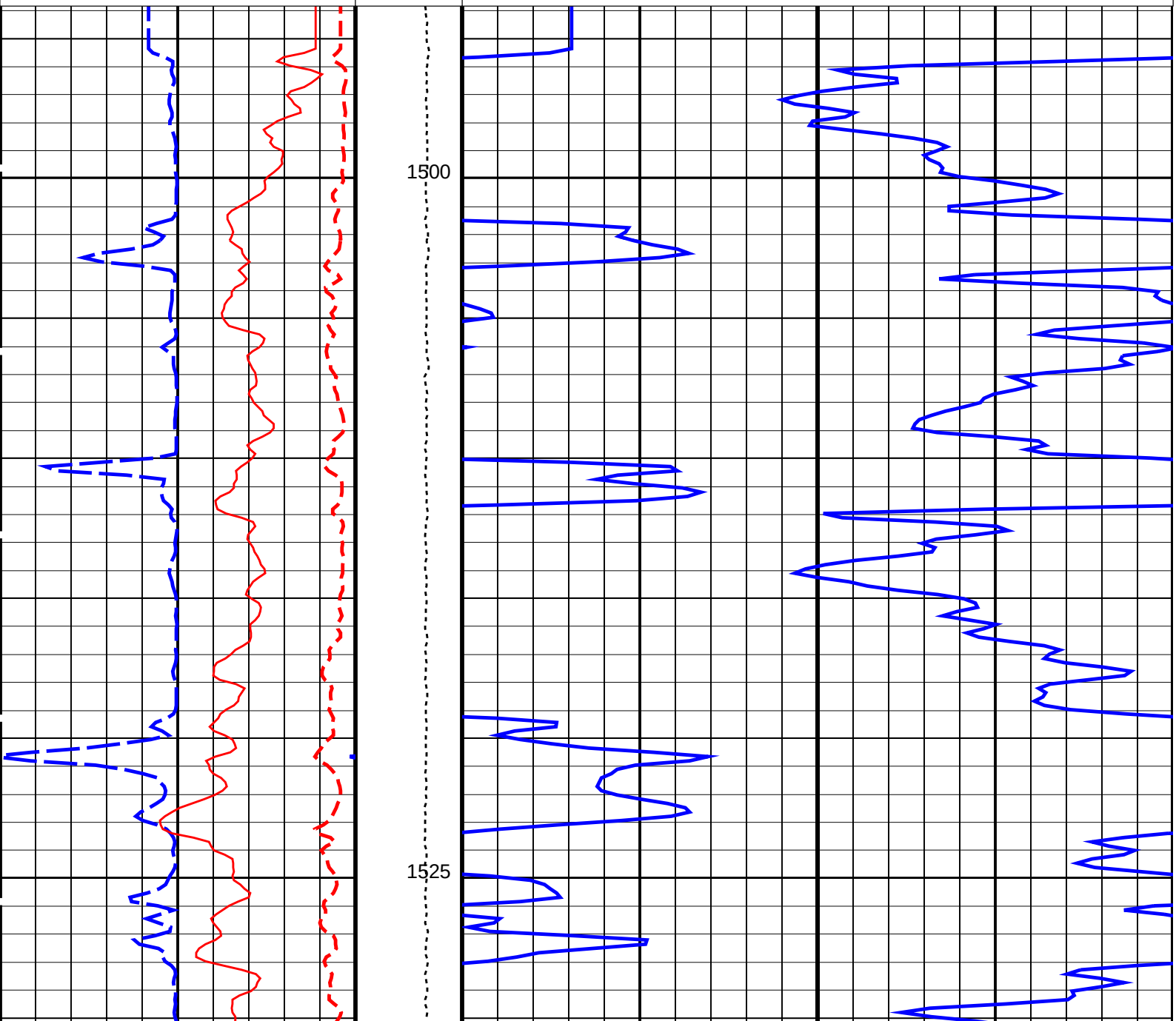
APS Total Correction in APLC (PHICOR_APLC)
−10 (PU) 10

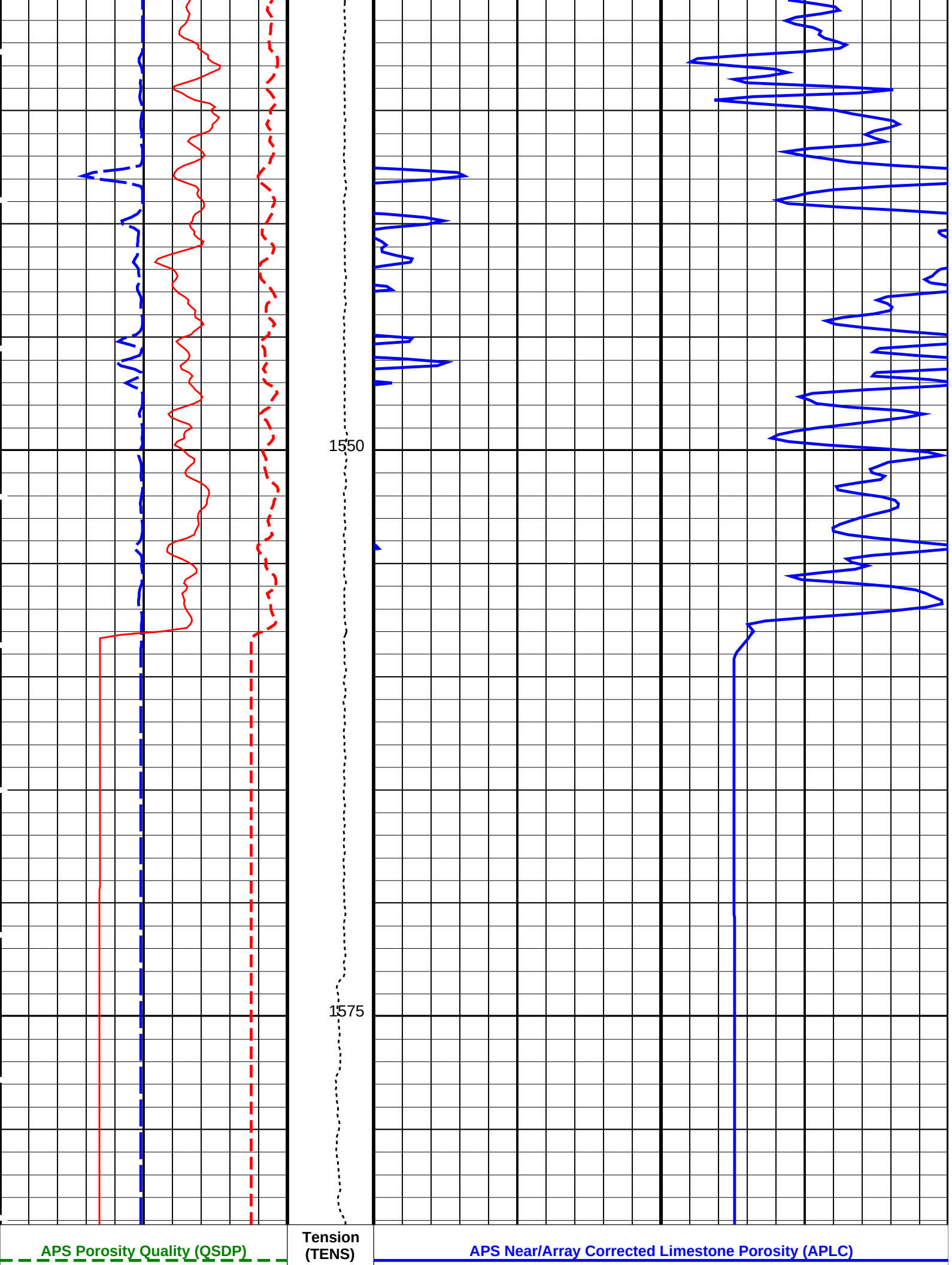
APS Formation Capture Cross−Section (SIGF)
0 (CU) 50

APS Porosity Quality (QSDP)
10 (−−−−) 0

Tension (TENS) (LBF)
10000 0

APS Near/Array Corrected Limestone Porosity (APLC)
60 (PU) 0




1550
1575
APS Porosity Quality (QSDP)
Tension (TENS)
APS Near/Array Corrected Limestone Porosity (APLC)

10 (----) 0

(LBF)
10000 0

60 (PU) 0

APS Formation Capture Cross-Section (SIGF)
0 (CU) 50

APS Total Correction in APLC (PHICOR_APLC)
-10 (PU) 10

APS Quality of Formation Capture Cross-Section (QSGF)
10 (----) 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)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
	HLDS: Hostile Litho-Density Sonde		
DPPM	Density Porosity Processing Mode	HIRS	
	APS-C: Accelerator-Porosity Tool		
	APS Software Version	5	
AASD	APS Thermal and Array Detectors High Voltage Setting	1936.01	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2033.55	V
AHCS	APS Holesize Correction Source	BS	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1702.52	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)	35	DEGF
BSCO_APS	APS TNPH Borehole Salinity Correction Option	YES	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source Correction Option	COMPUTED	
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	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	YES	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.07414	
NFRC	APS Near/Far Calibration Ratio	0.966885	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	68	DEGF
TNCO_APS	APS TNPH Computation Option	NO	
	HNGS-BA: Hostile Natural Gamma Ray Sonde		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
	EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF

DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	−50000	PPM
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	38000.00	PPM
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
RMFS	Resistivity of Mud Filtrate Sample	−50000.0000	OHMM
TD	Total Depth	10190.3	FT

Format: APSLiquidPorosity Vertical Scale: 1:200 Graphics File Created: 19−Jun−2024 18:03

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:16	PRODUCER	19−Jun−2024 18:03	
RTB	MSS_LDEO_HRLA_LDL_015LUP	FN:17	PRODUCER	19−Jun−2024 18:03	

Company: International Ocean Discovery Program Well: Expedition 403, Site U1618C

Output DLIS Files

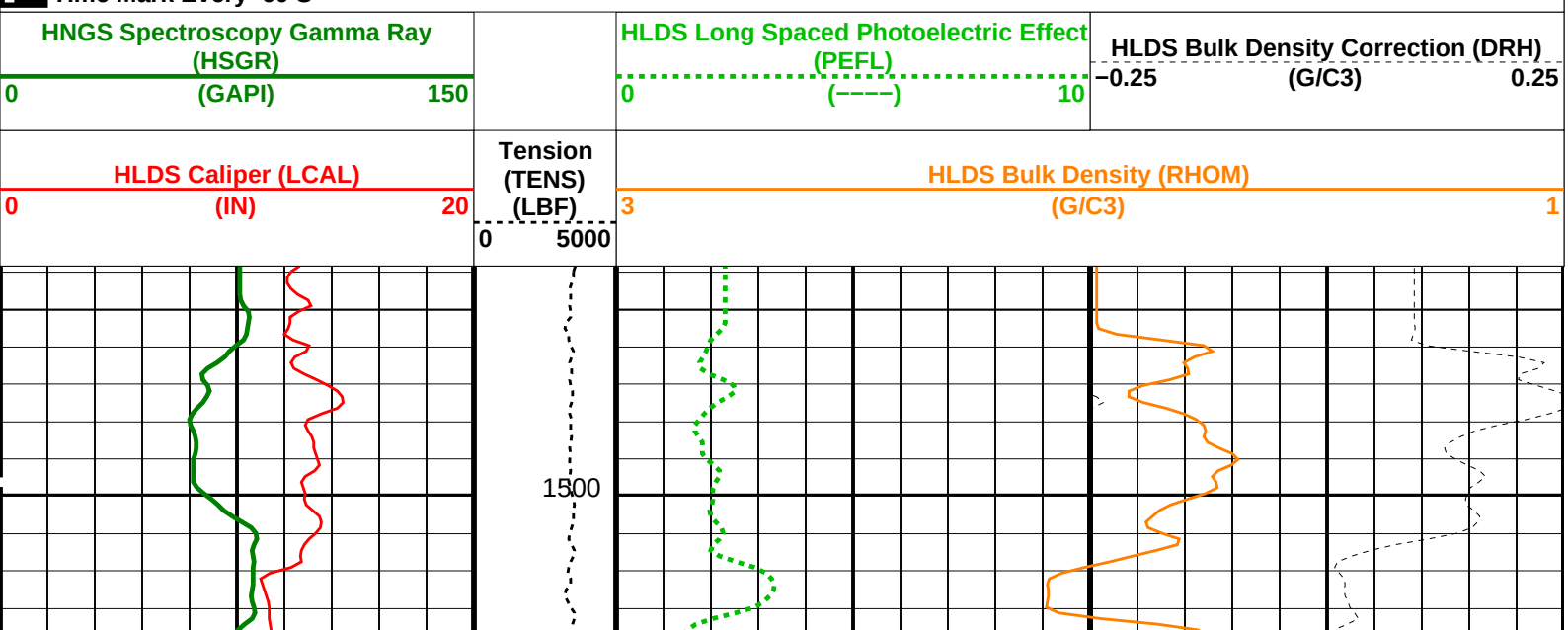
DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:16	PRODUCER	19−Jun−2024 18:03	1584.2 M	1493.9 M
RTB	MSS_LDEO_HRLA_LDL_015LUP	FN:17	PRODUCER	19−Jun−2024 18:03	1584.2 M	1493.9 M

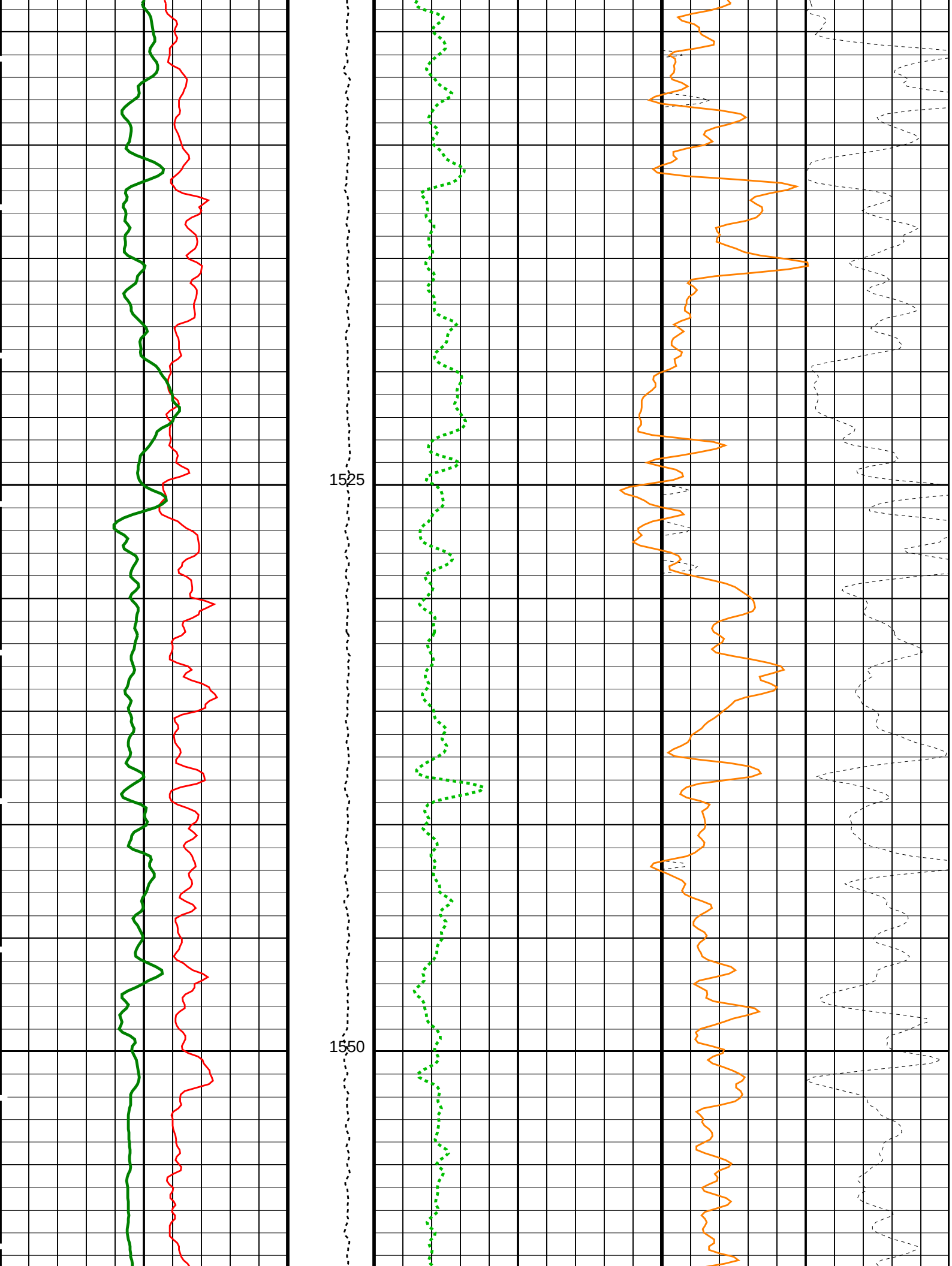
OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

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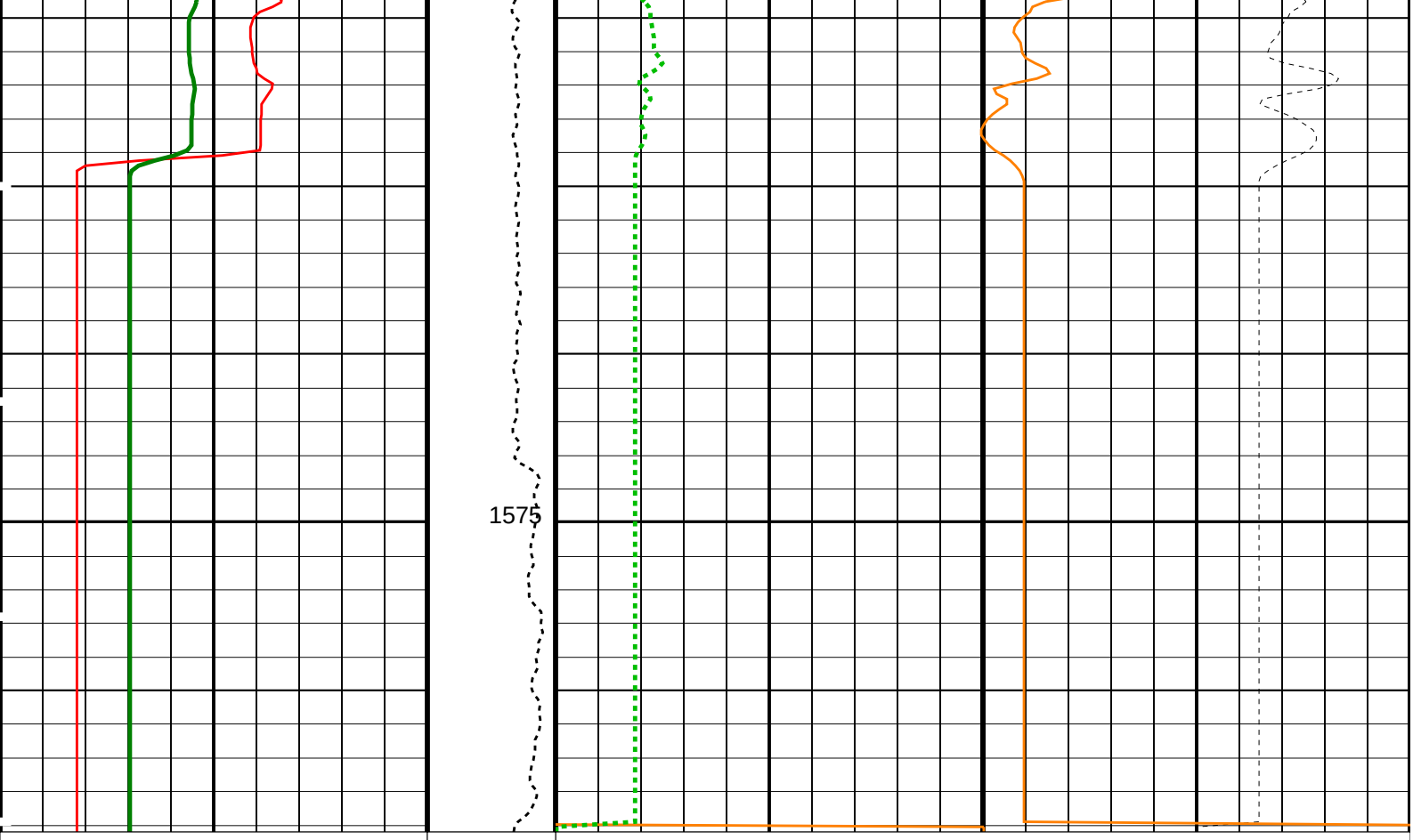
1550



HLDS Caliper (LCAL)	Tension (TENS)	HLDS Bulk Density (RHOM)
0 (IN) 20	(LBF) 0 5000	3 (G/C3) 1

HNGS Spectroscopy Gamma Ray (HSGR)	HLDS Long Spaced Photoelectric Effect (PEFL)	HLDS Bulk Density Correction (DRH)
0 (GAPI) 150	0 (----) 10	−0.25 (G/C3) 0.25

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	HLDS: Hostile Litho−Density Sonde		
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	OFF	
MDEN	Matrix Density	2.6	G/C3
	APS−C: Accelerator−Porosity Tool		
	APS Software Version	5	
BHS	Borehole Status	OPEN	
DPPM	Density Porosity Processing Mode	HIRS	
GCSE	Generalized Caliper Selection	LCAL	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	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	−0.00179017	

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	0.987782	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970323	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
DPPM	Density Porosity Processing Mode	HIRS	
GCSE	Generalized Caliper Selection	LCAL	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3

Format: HLDSDensityPE Vertical Scale: 1:200 Graphics File Created: 19−Jun−2024 18:03

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:16	PRODUCER	19−Jun−2024 18:03
RTB	MSS_LDEO_HRLA_LDL_015LUP	FN:17	PRODUCER	19−Jun−2024 18:03

Company: International Ocean Discovery Program Well: Expedition 403, Site U1618C

Output DLIS Files

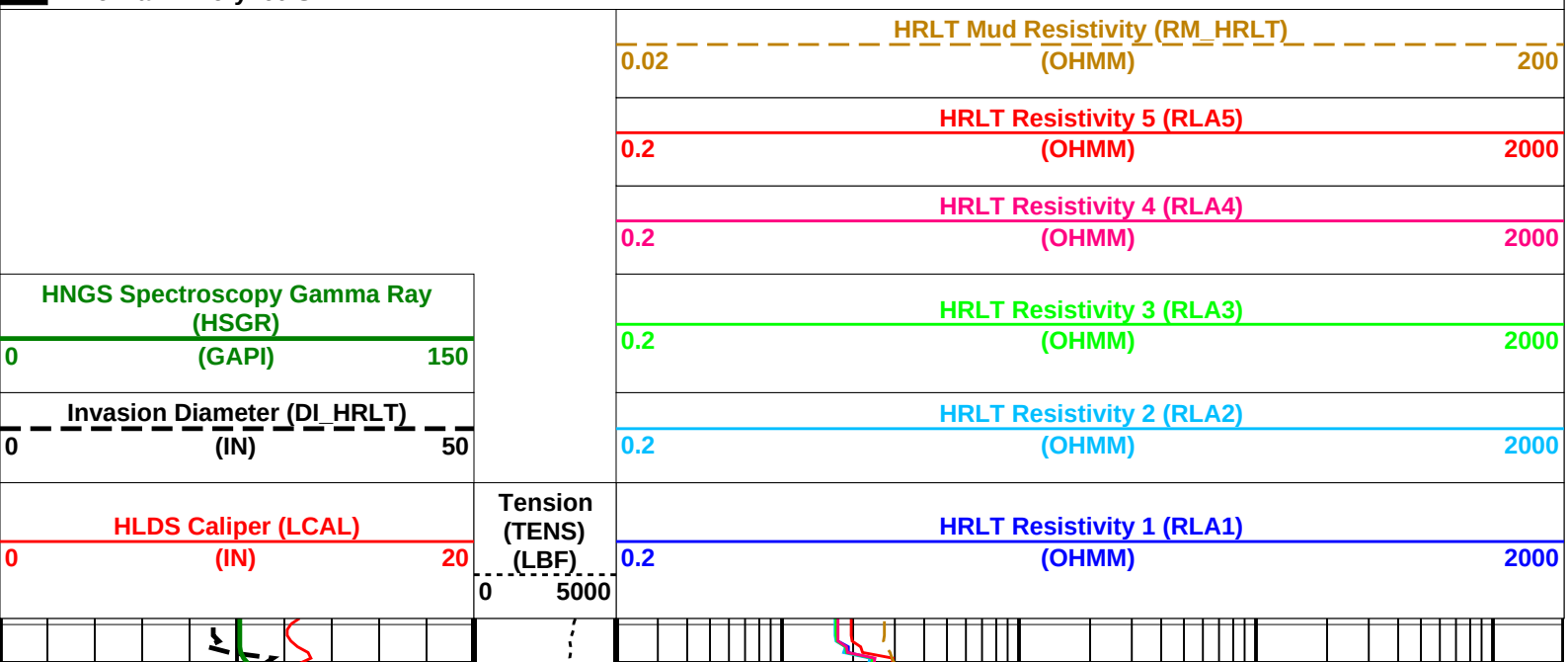
DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:16	PRODUCER	19−Jun−2024 18:03
RTB	MSS_LDEO_HRLA_LDL_015LUP	FN:17	PRODUCER	19−Jun−2024 18:03

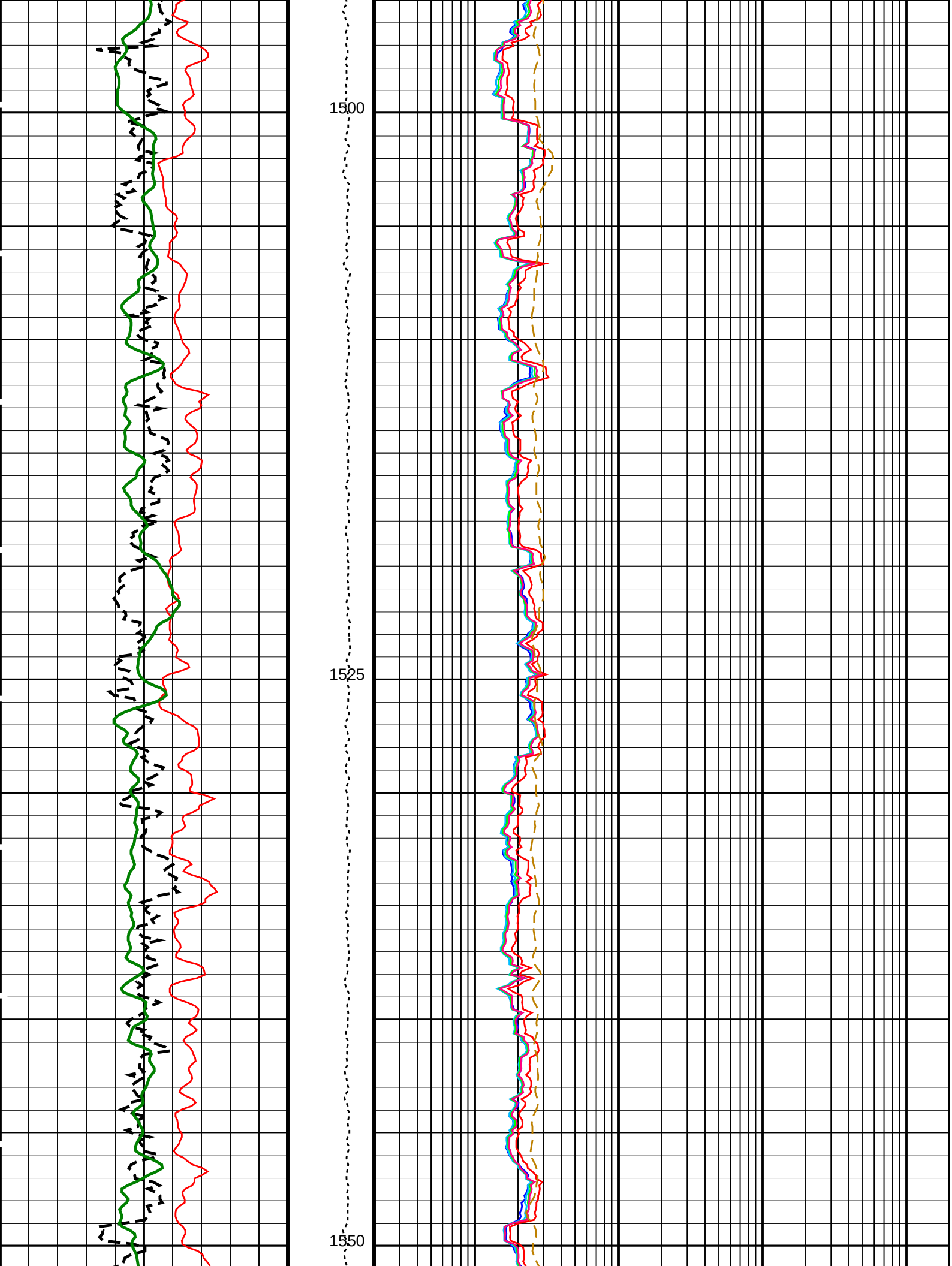
OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

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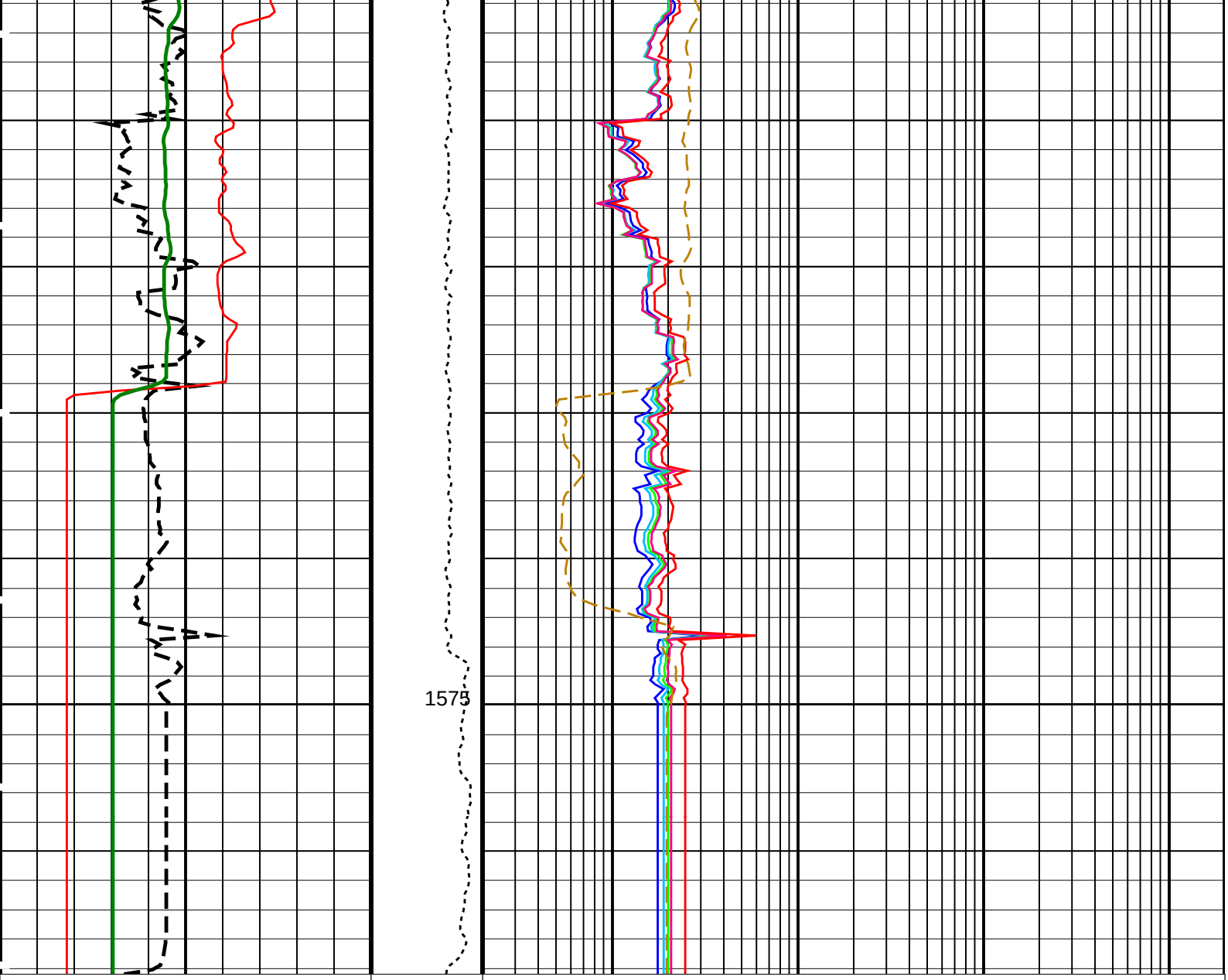


HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

HRLT Resistivity 1 (RLA1)
0.2 (OHMM) 2000

Invasion Diameter (DI_HRLT)
0 (IN) 50

HRLT Resistivity 2 (RLA2)
0.2 (OHMM) 2000

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

HRLT Resistivity 3 (RLA3)
0.2 (OHMM) 2000

HRLT Resistivity 4 (RLA4)
0.2 (OHMM) 2000

HRLT Resistivity 5 (RLA5)
0.2 (OHMM) 2000

HRLT Mud Resistivity (RM_HRLT)
0.02 (OHMM) 200

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)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
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	68	DEGF
APS−C: Accelerator−Porosity Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
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)	35	DEGF
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	
GGRD	Geothermal Gradient	0.01	DF/F
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	−0.00179017	
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	
SHT	Surface Hole Temperature	68	DEGF
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.987782	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970323	
EDTC−B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
MST	Mud Sample Temperature	23.00	DEGC
TD	Total Depth	10190.3	FT

Format: HRLT **Vertical Scale: 1:200** **Graphics File Created: 19−Jun−2024 18:03**

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:16	PRODUCER	19−Jun−2024 18:03
RTB	MSS_LDEO_HRLA_LDL_015LUP	FN:17	PRODUCER	19−Jun−2024 18:03

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:16	PRODUCER	19−Jun−2024 18:03	1584.2 M	1495.0 M
RTB	MSS_LDEO_HRLA_LDL_015LUP	FN:17	PRODUCER	19−Jun−2024 18:03	1584.2 M	1495.0 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

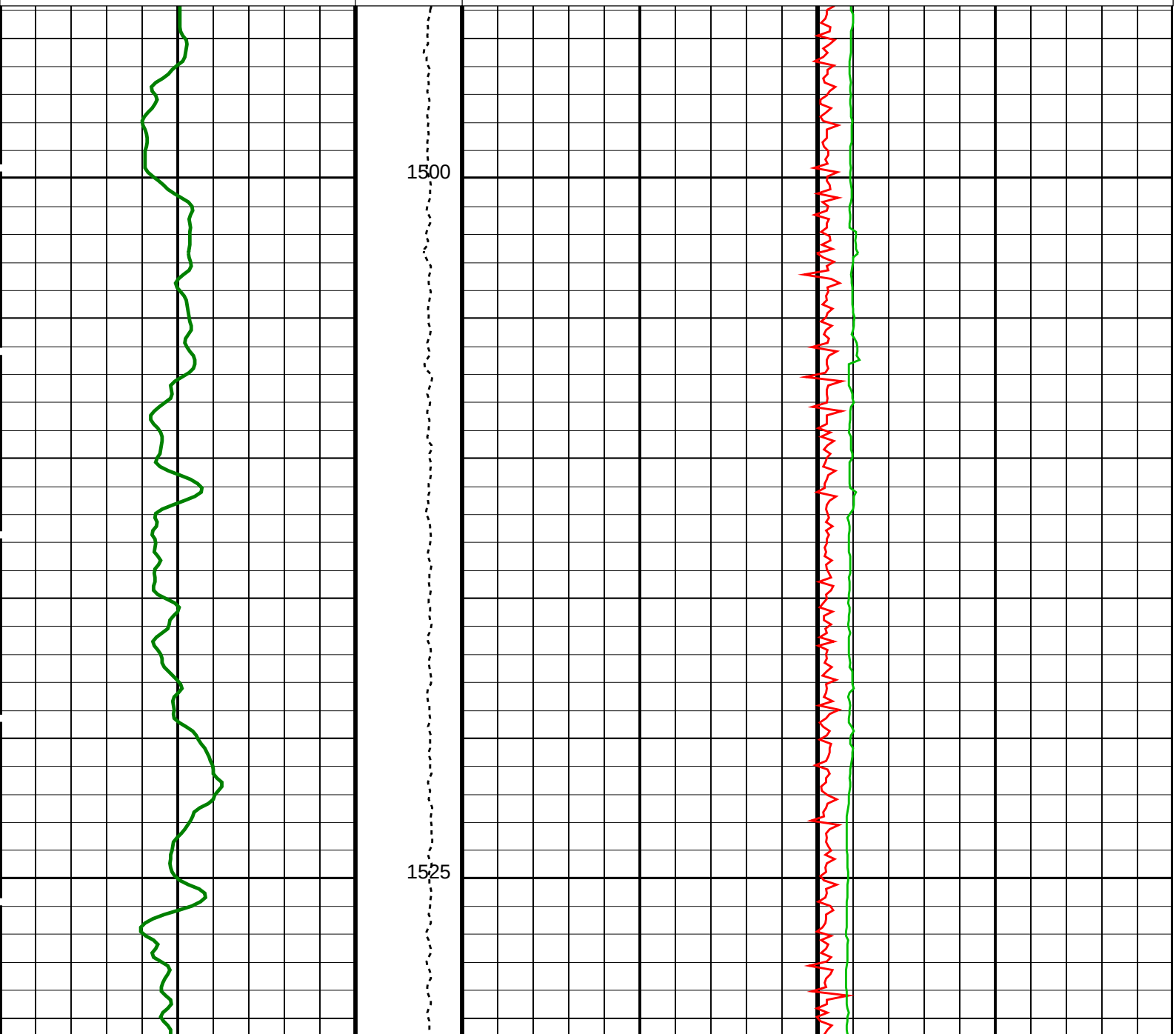
Time Mark Every 60 S

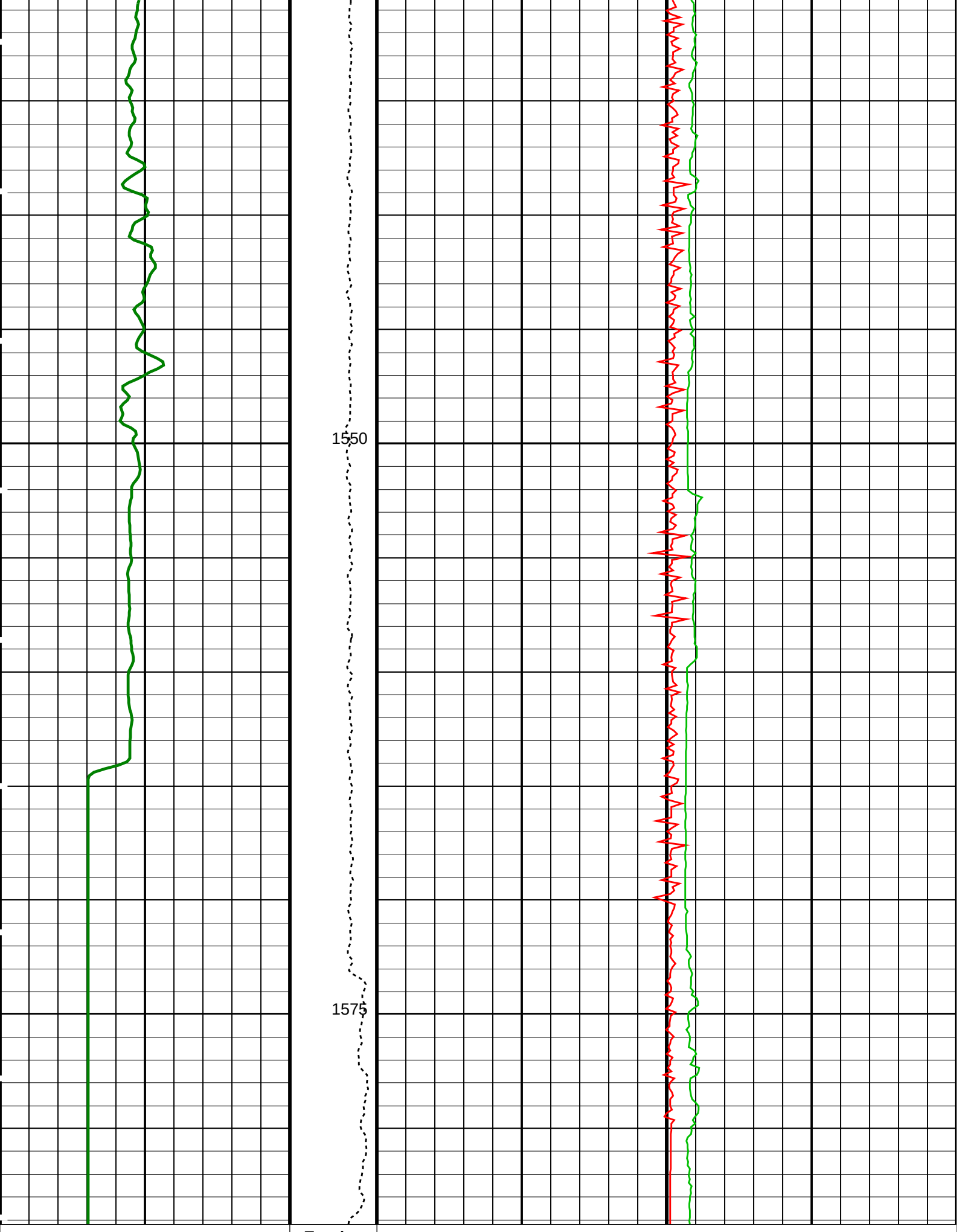
Dual−Coil Susceptibility (MSSLSUS_LDEO)
−10000 (PPM) 90000

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

Tension (TENS) (LBF)
0 5000

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





HNGS Spectroscopy Gamma Ray (HSGR)

Tension (TENS) (LBF)

Axial Acceleration (MSSZACC_LDEO)

0 (M/S2) 20

0 (GAPI) 150 (CPS) 0 5000

Dual−Coil Susceptibility (MSSLSUS_LDEO)

−10000 (PPM) 90000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	APS−C: Accelerator−Porosity Tool		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	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	−0.00179017	
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	0.987782	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970323	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 19−Jun−2024 18:03

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_015LUP	FN:16	PRODUCER	19−Jun−2024 18:03
RTB	MSS_LDEO_HRLA_LDL_015LUP	FN:17	PRODUCER	19−Jun−2024 18:03

Schlumberger

Main Pass
1:200 Scale

MAXIS Field Log

Company: International Ocean Discovery Program	Well: Expedition 403, Site U1618C

Output DLIS Files

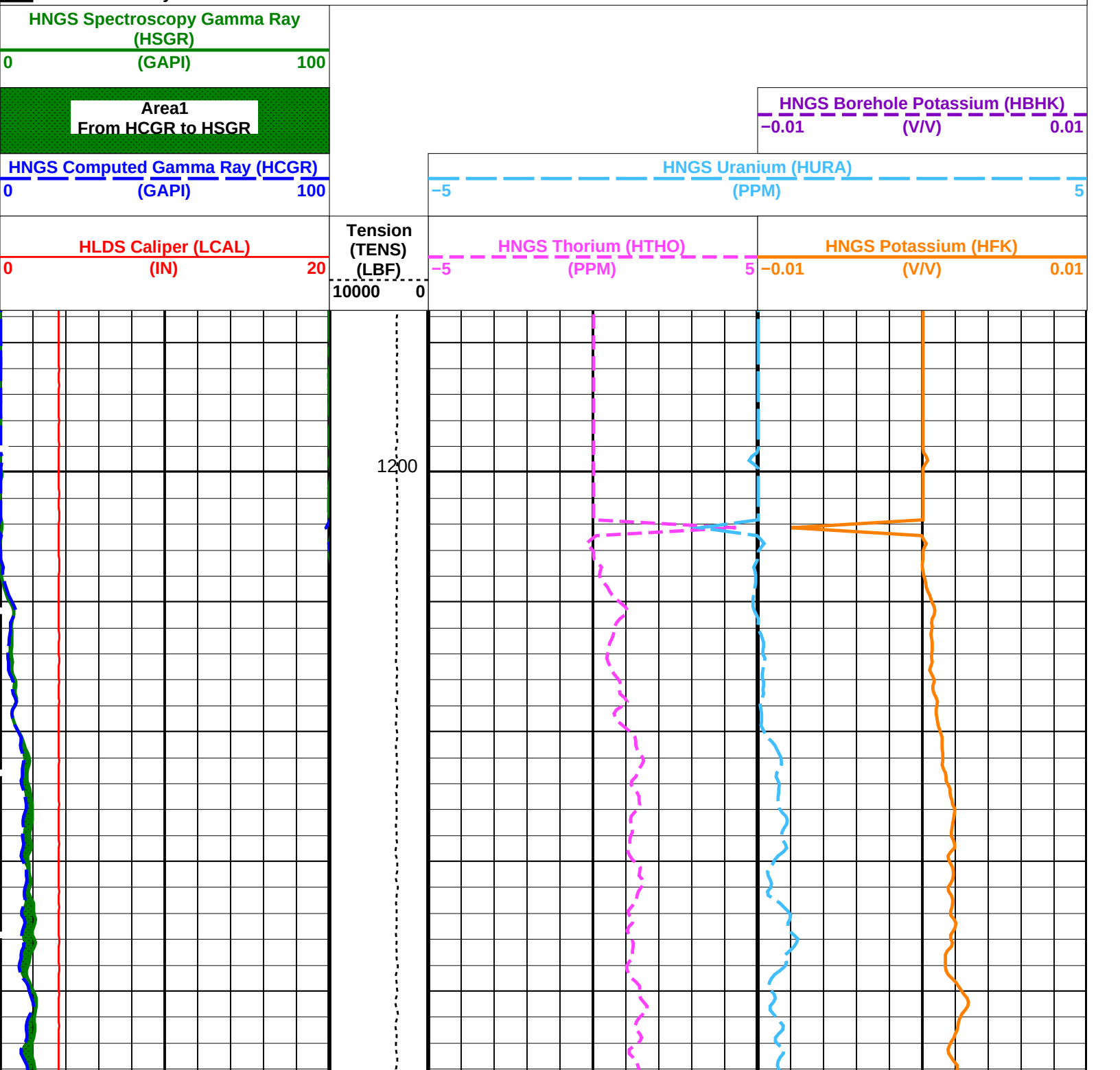
DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	19−Jun−2024 18:25	1575.1 M	1195.6 M
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	19−Jun−2024 18:25	1575.1 M	1195.6 M

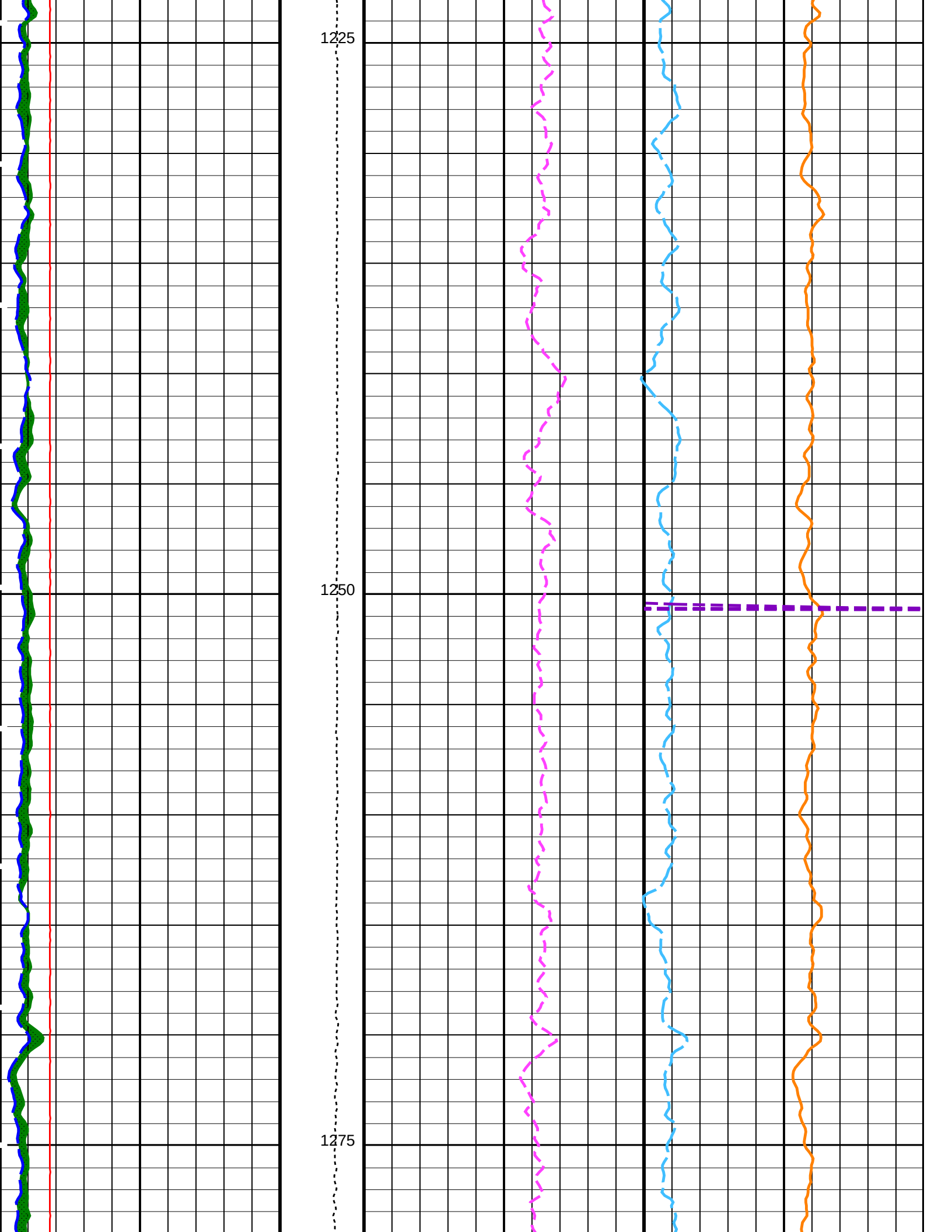
OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

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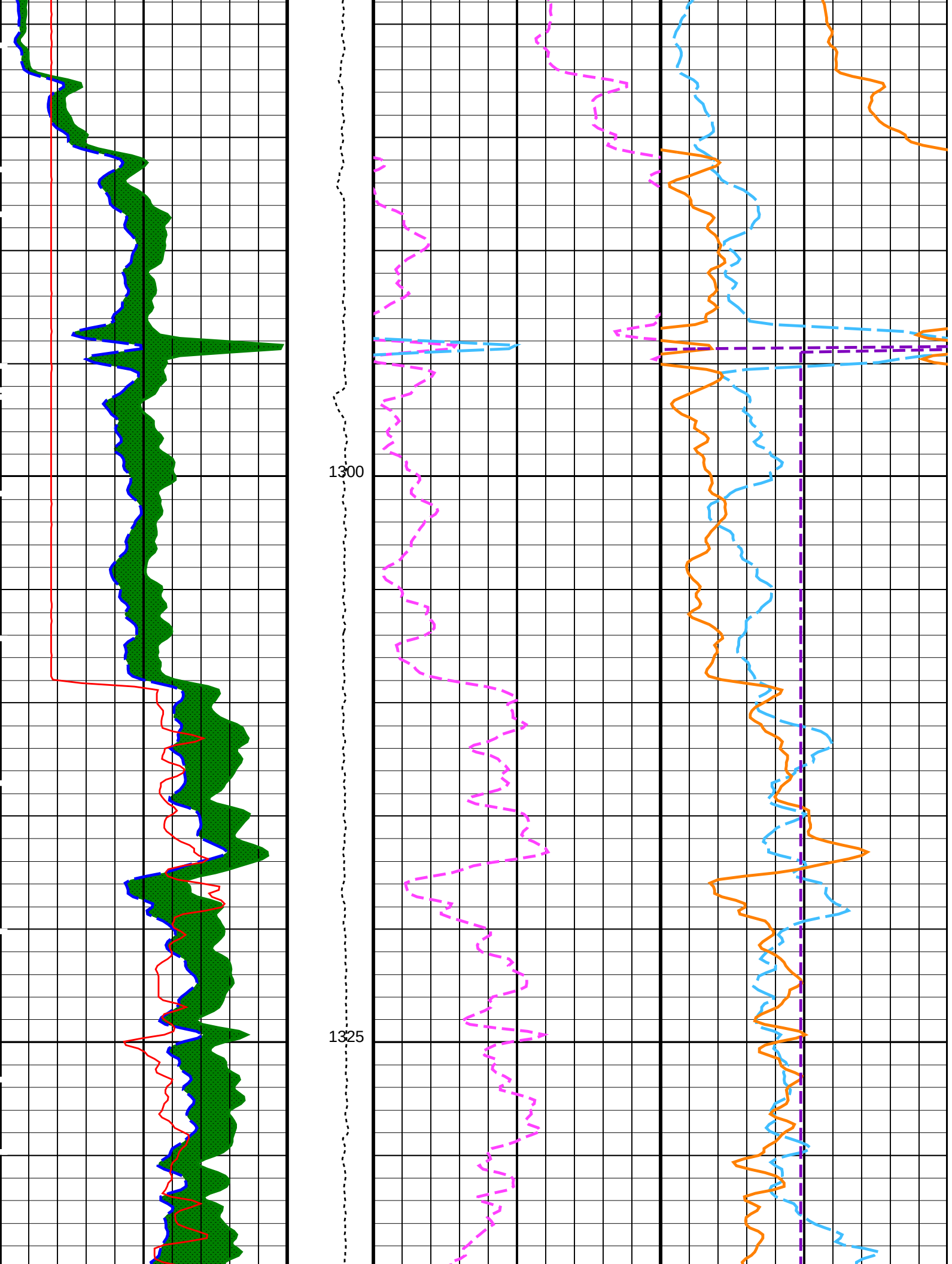
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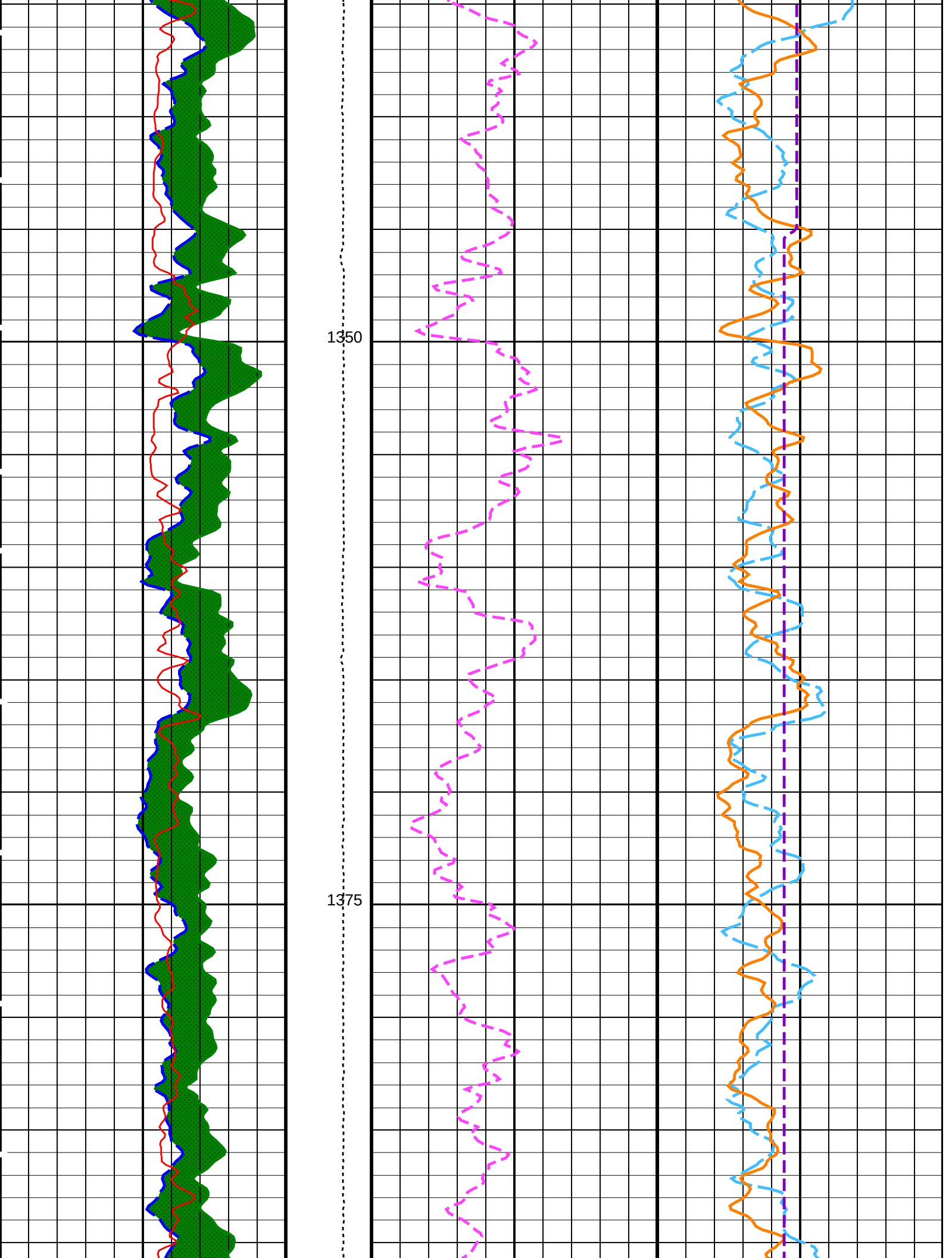
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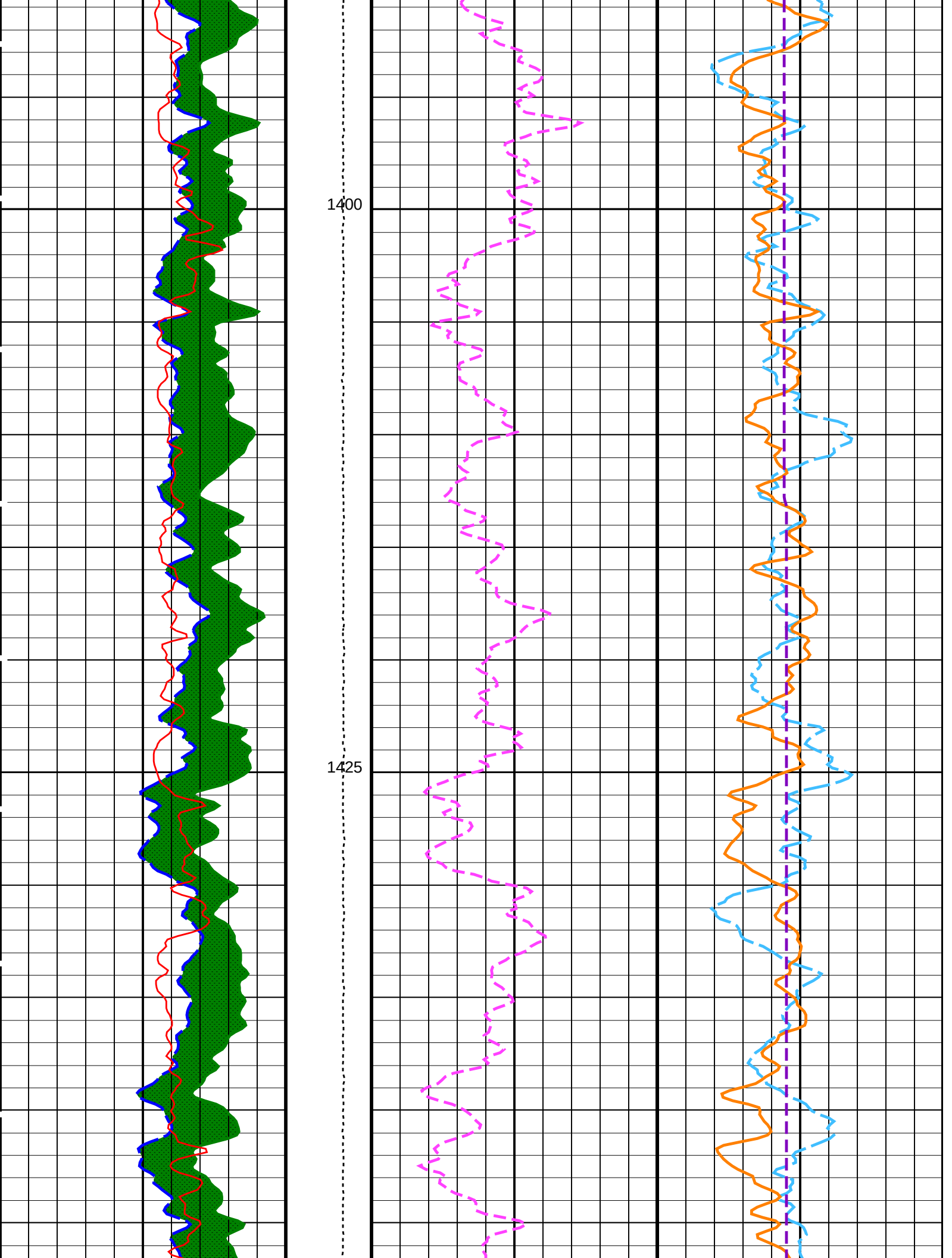
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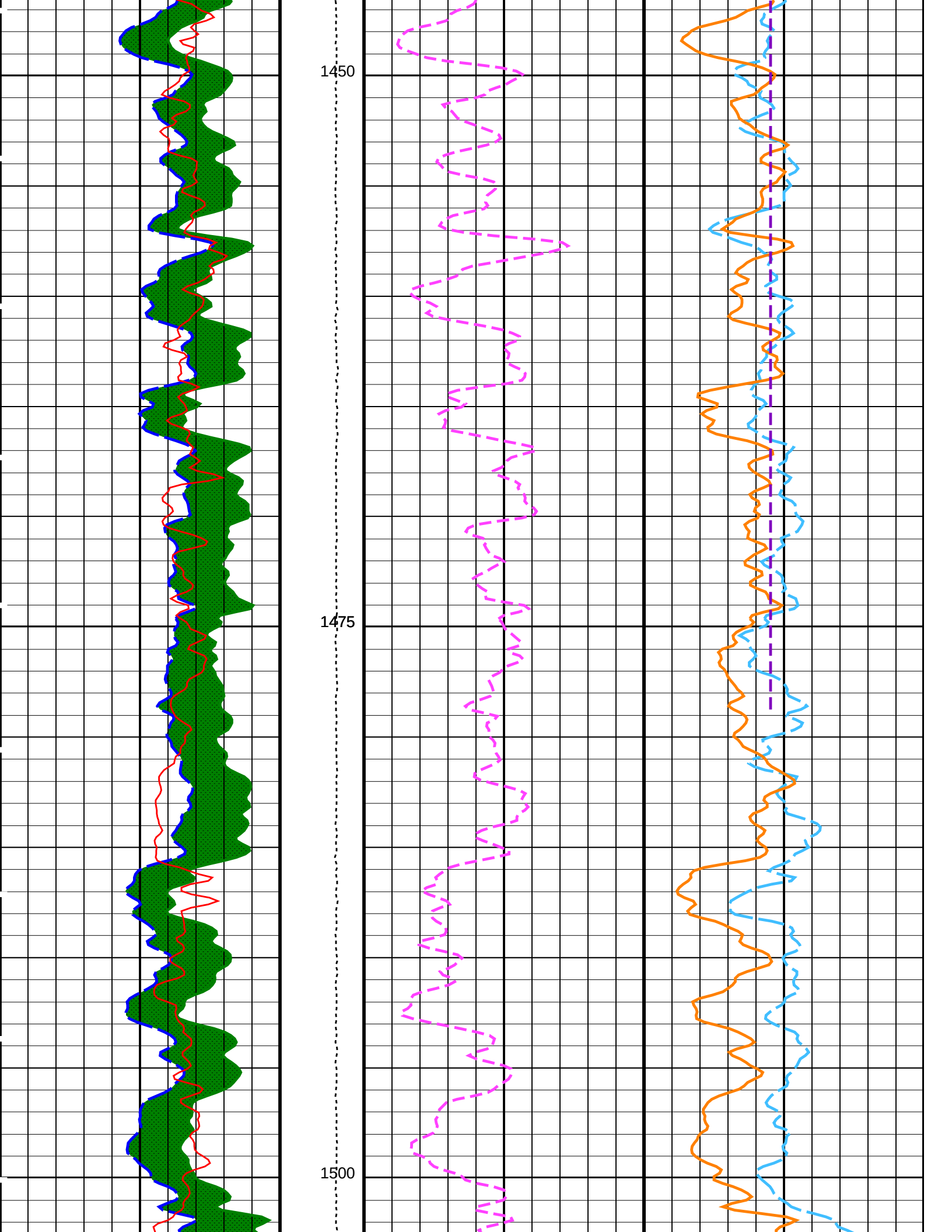
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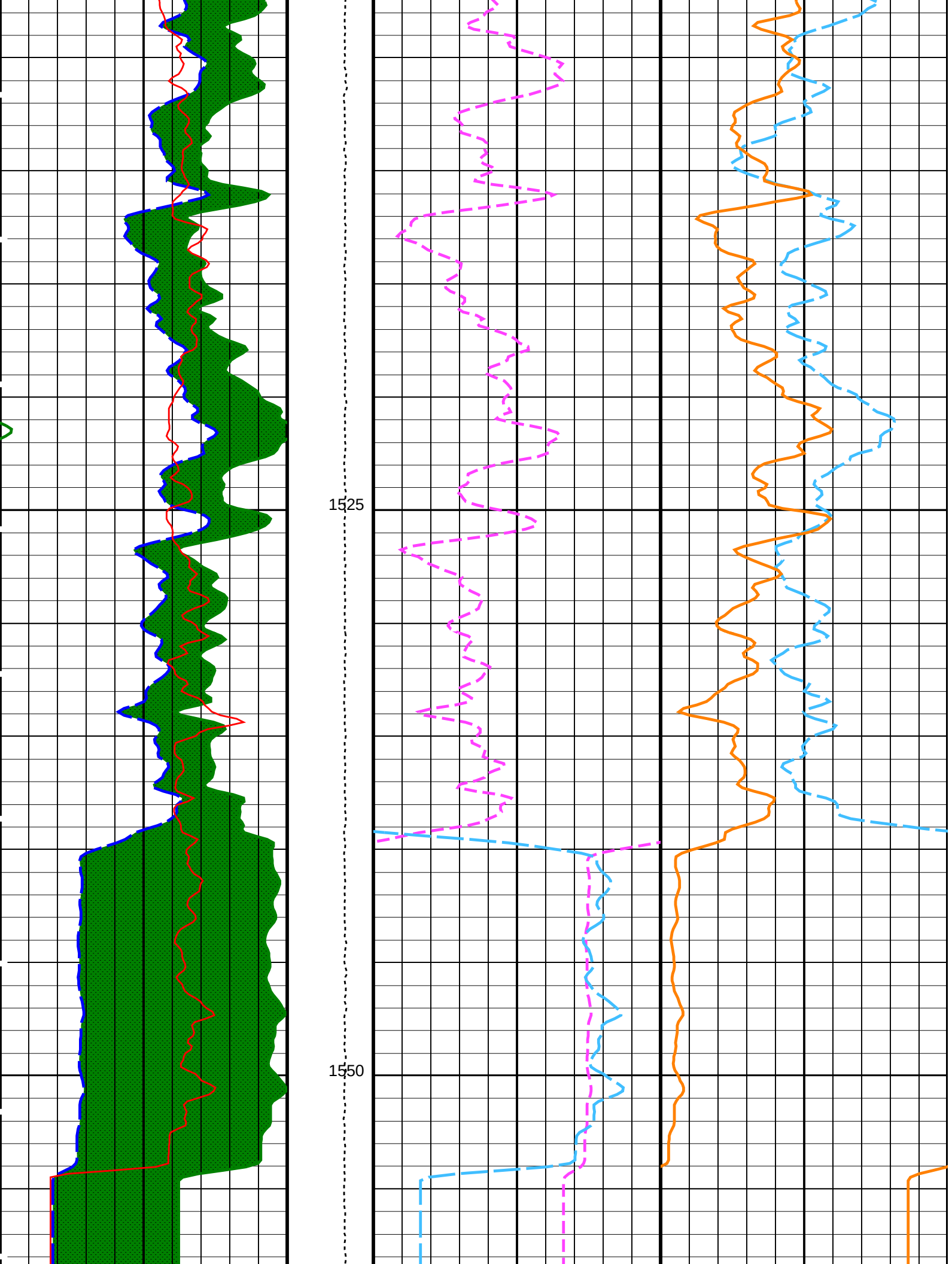
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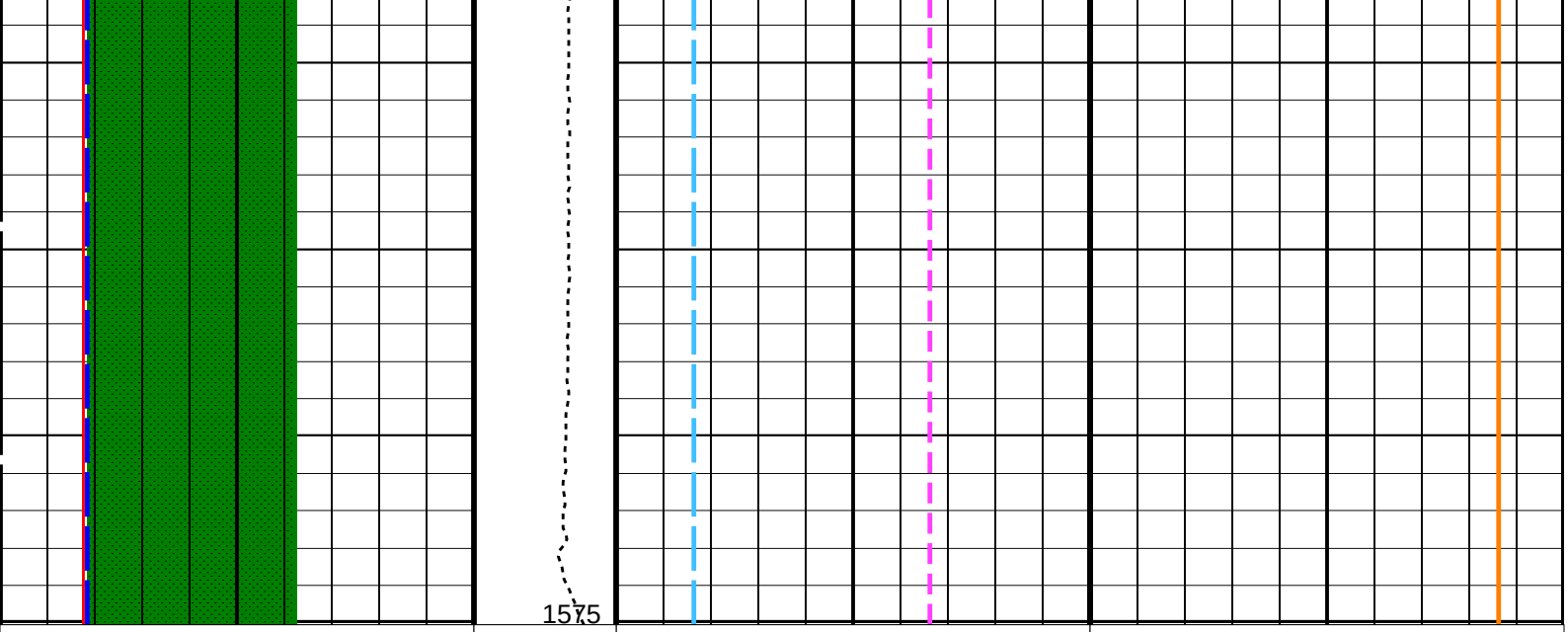


Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	APS−C: Accelerator−Porosity Tool		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	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	−0.00179017	
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	0.987782	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970323	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	

	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 19-Jun-2024 18:25

OP System Version: 19C0-187

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

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	19-Jun-2024 18:25	
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	19-Jun-2024 18:25	

Company: International Ocean Discovery Program Well: Expedition 403, Site U1618C

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	19-Jun-2024 18:25	1575.1 M	1193.7 M
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	19-Jun-2024 18:25	1575.1 M	1193.7 M

OP System Version: 19C0-187

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

PIP SUMMARY

Time Mark Every 60 S

APS Quality of Formation Capture Cross-Section (QSGF)
10 (----) 0

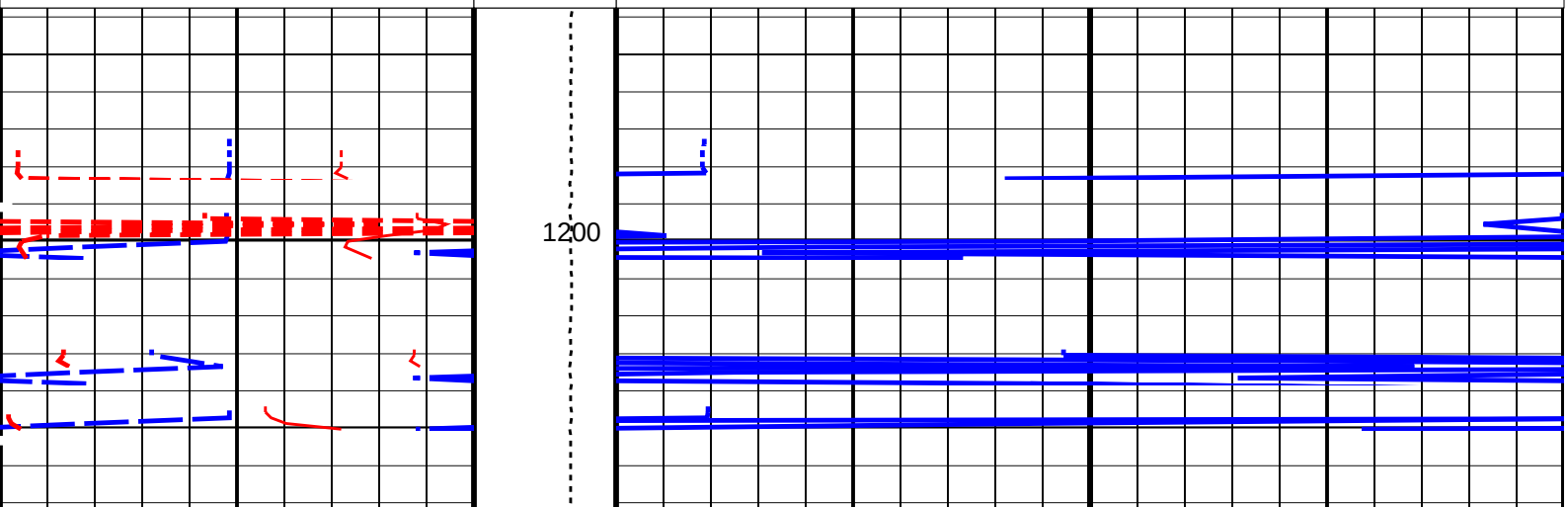
APS Total Correction in APLC (PHICOR_APLC)
-10 (PU) 10

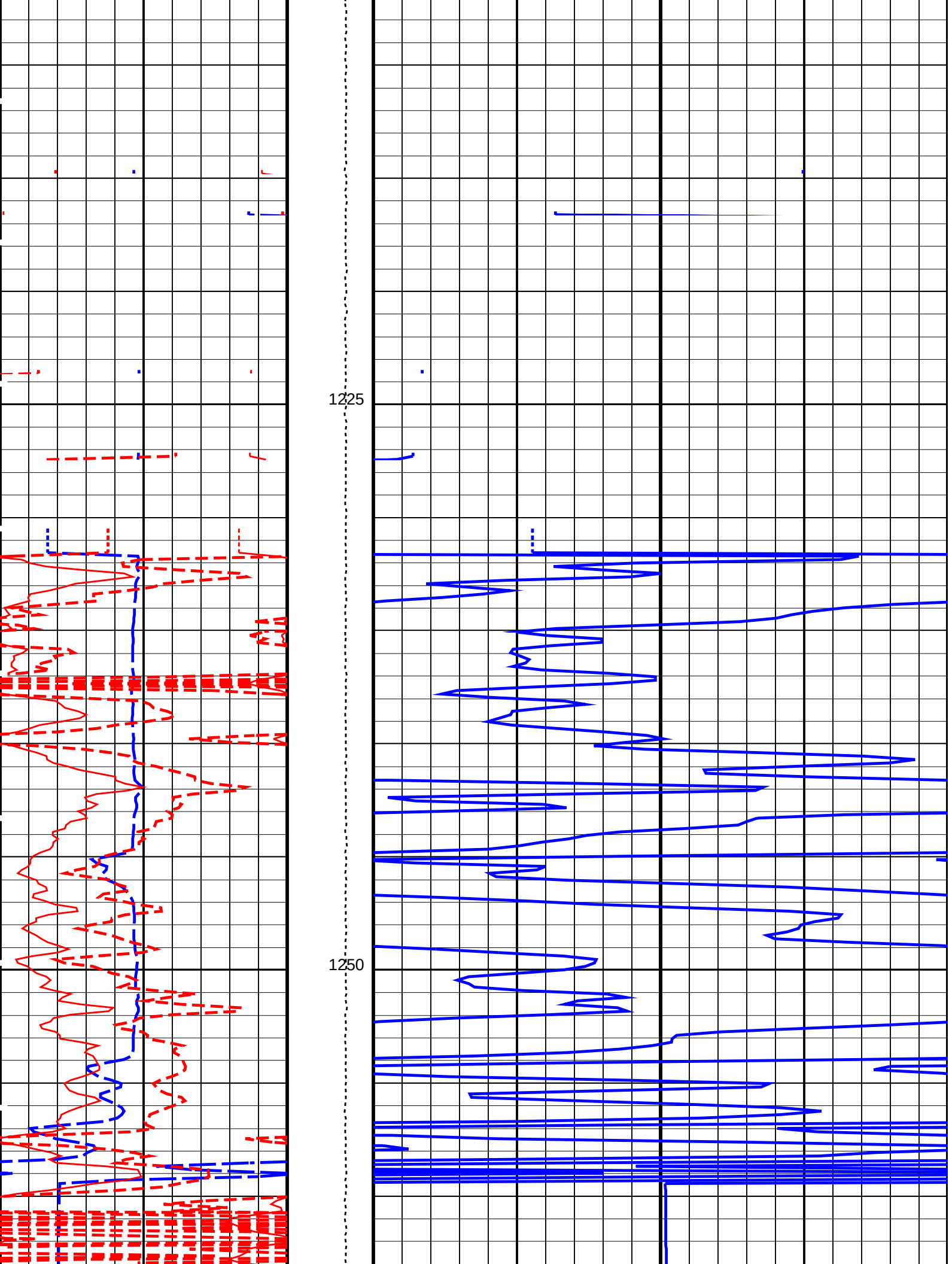
APS Formation Capture Cross-Section (SIGF)
0 (CU) 50

APS Porosity Quality (QSDP)
10 (----) 0

Tension (TENS) (LBF)
10000 0

APS Near/Array Corrected Limestone Porosity (APLC)
60 (PU) 0

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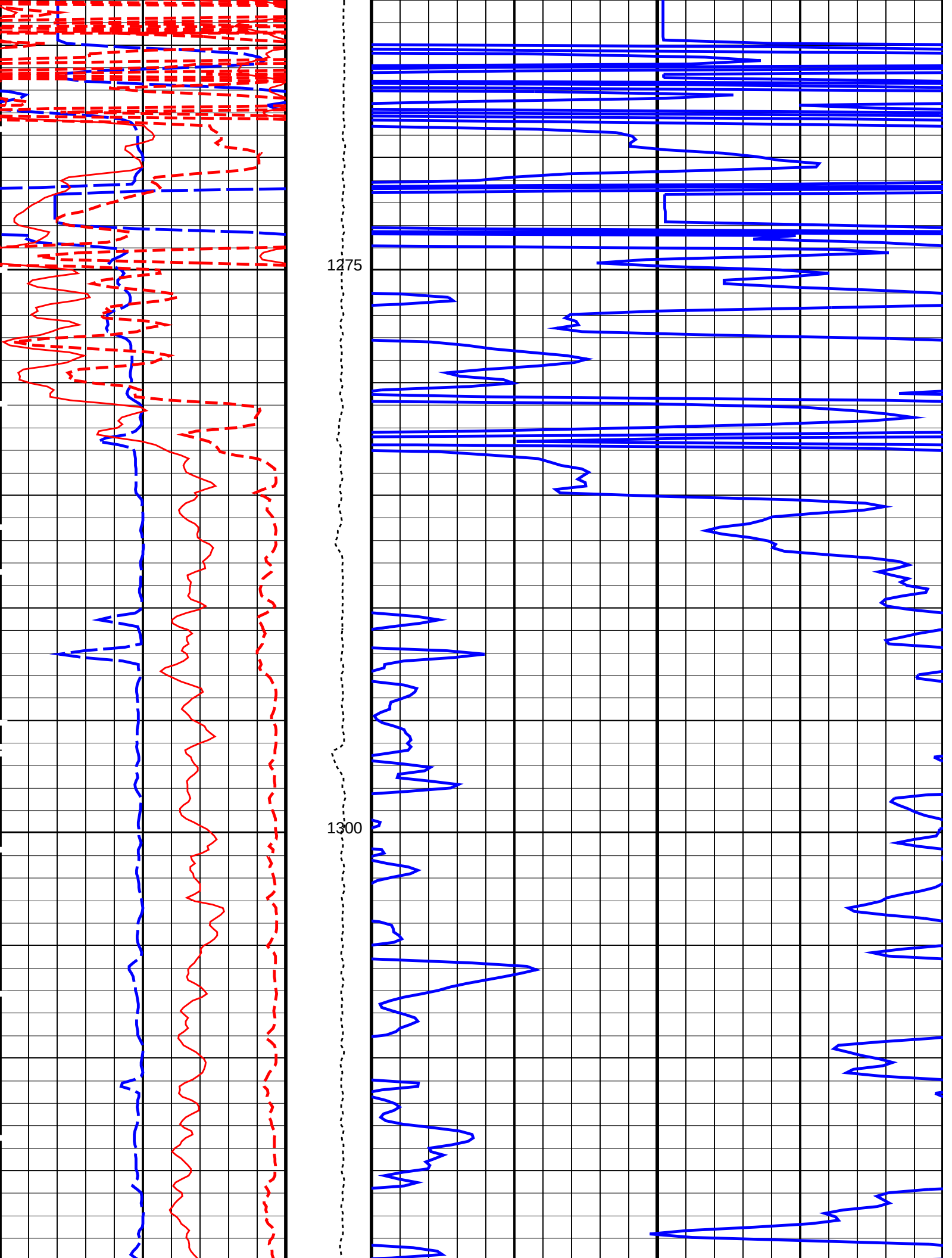
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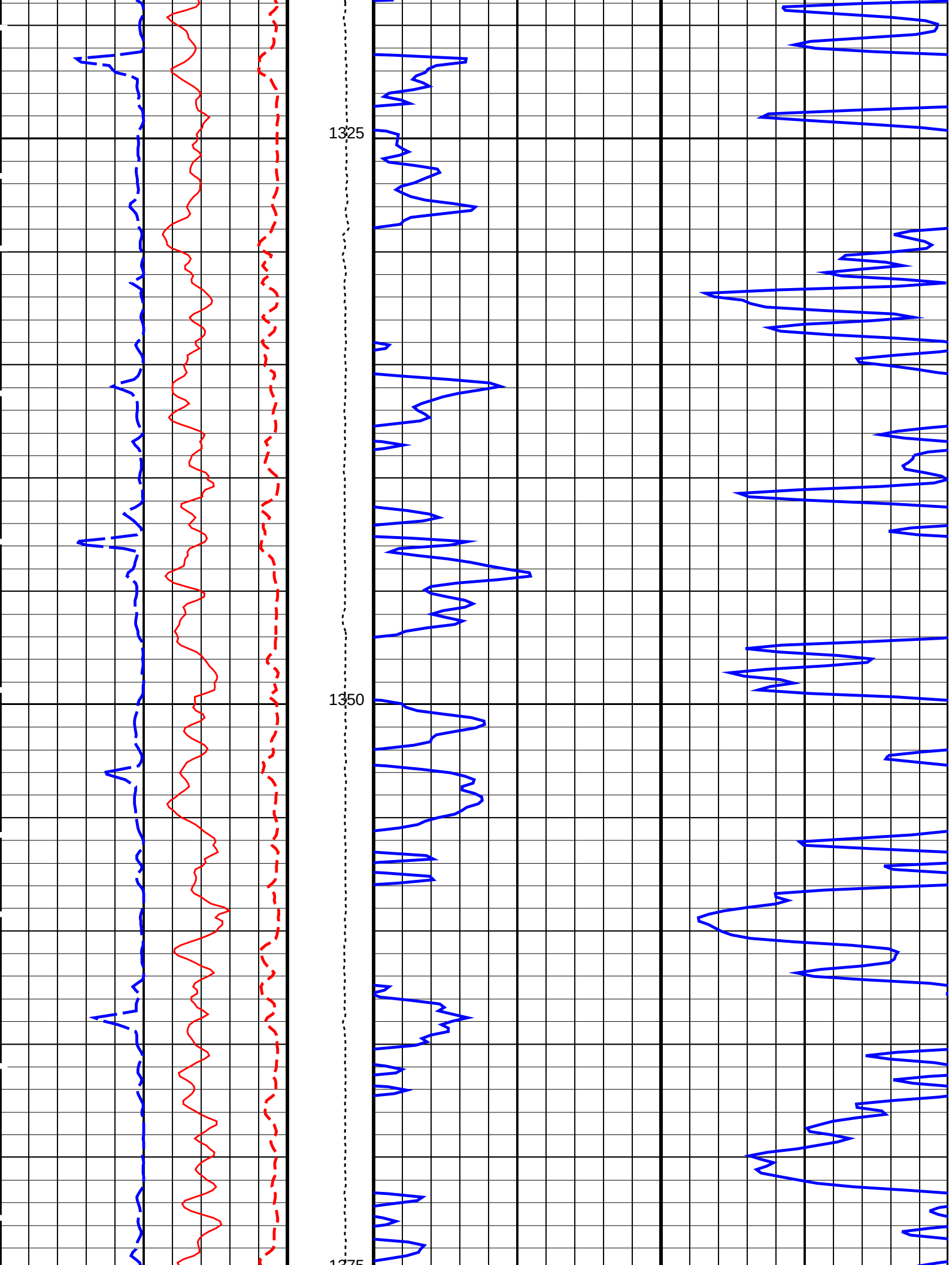
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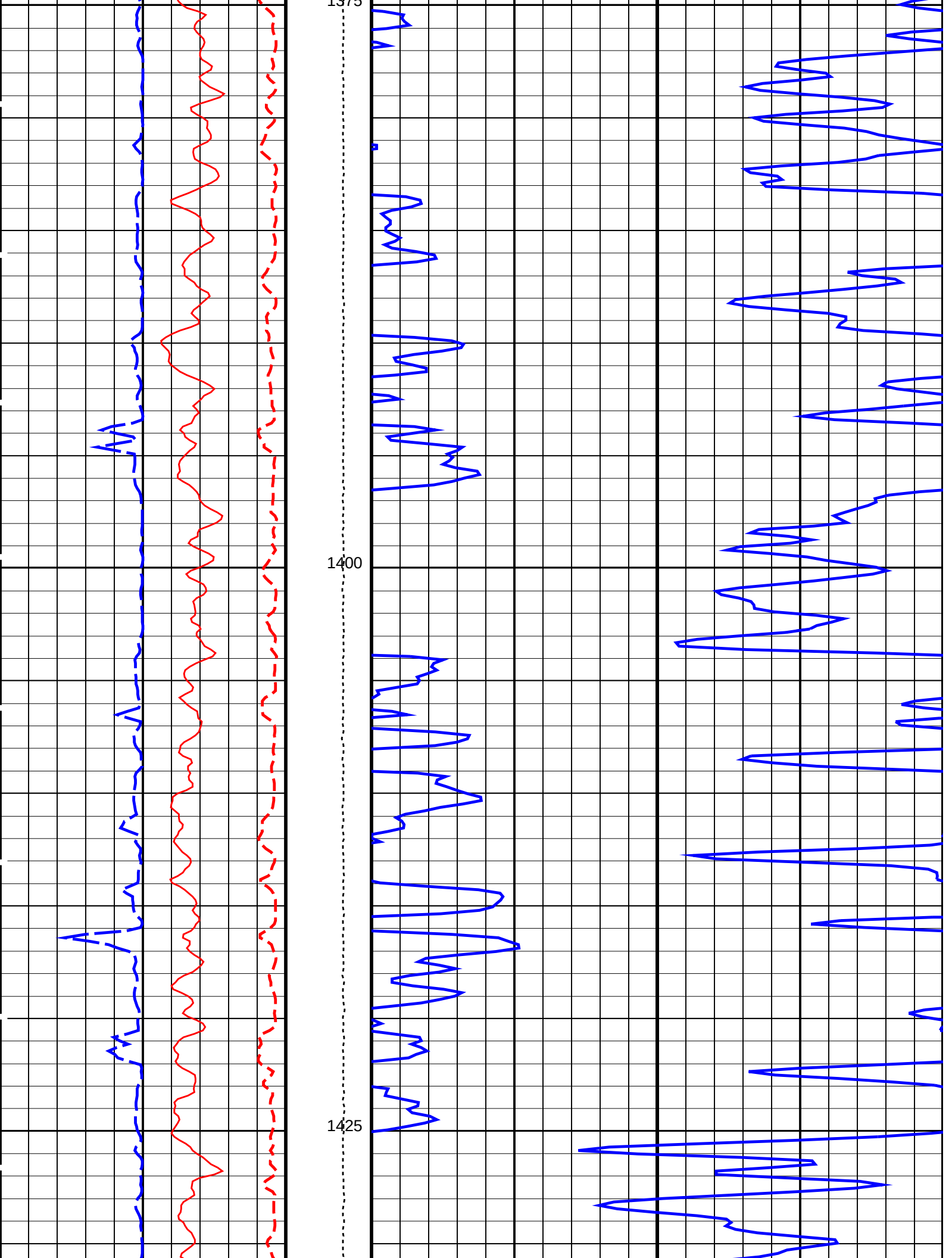
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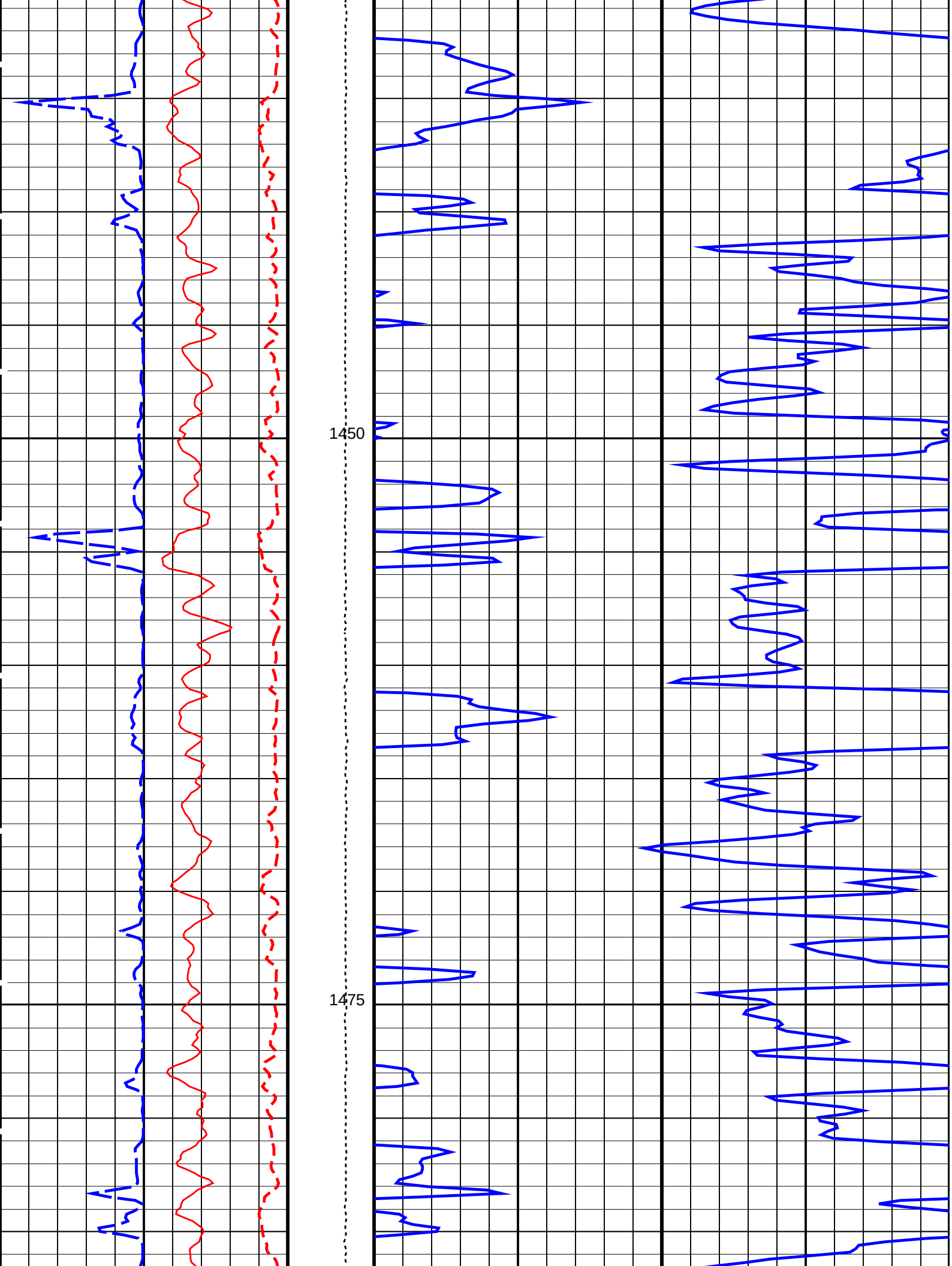
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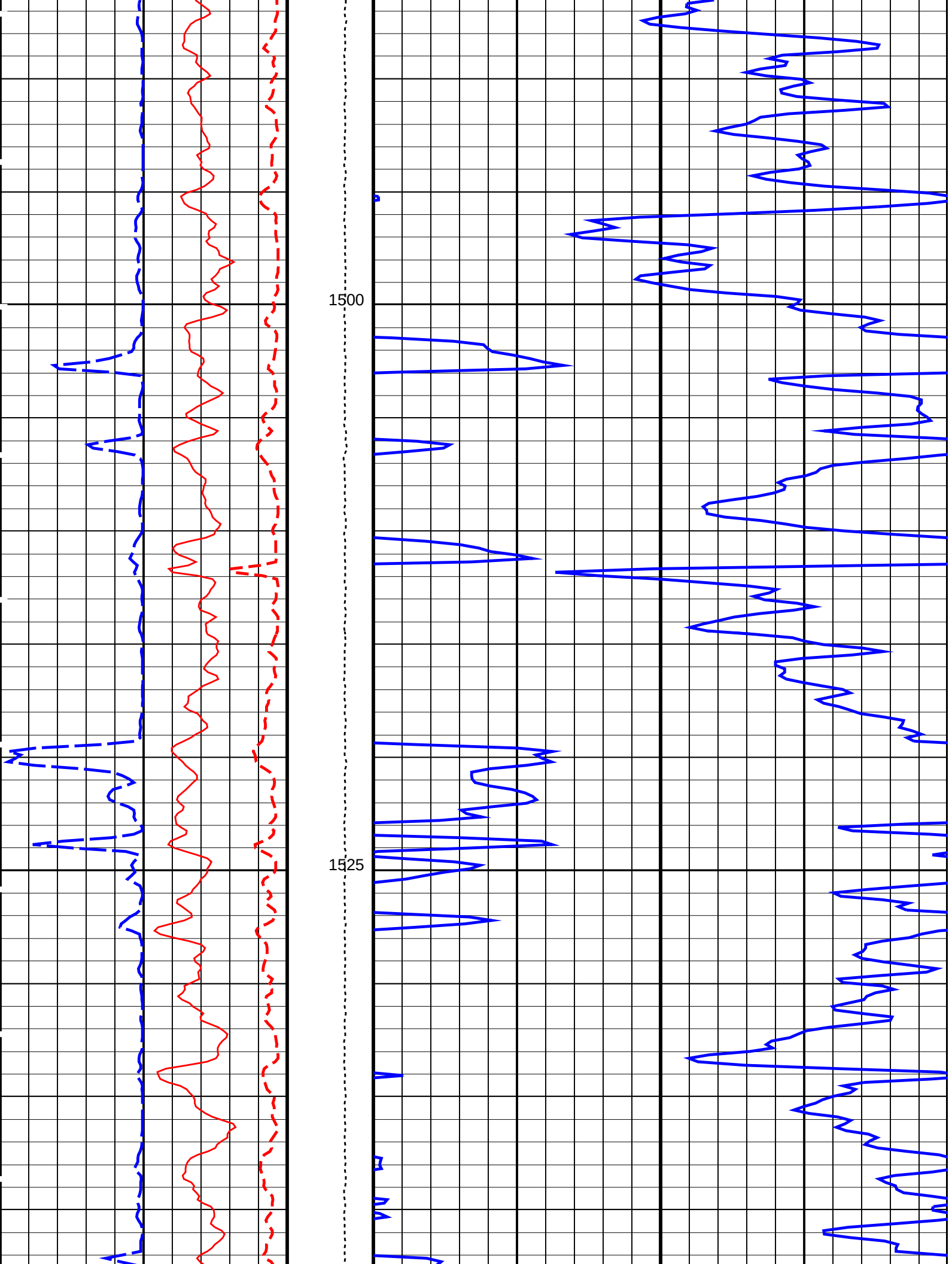
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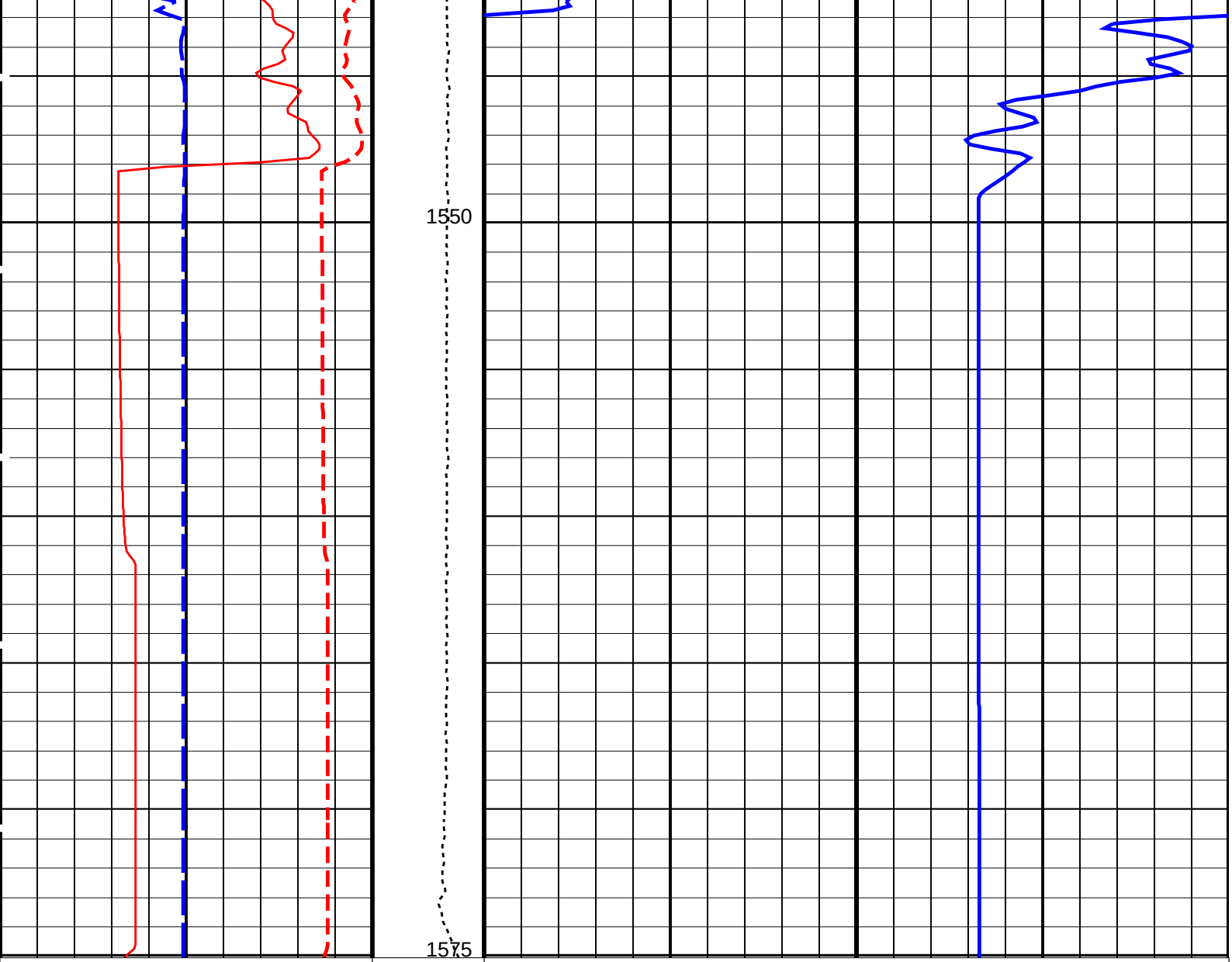


APS Porosity Quality (QSDP)
10 (----) 0

Tension (TENS) (LBF)
10000 0

APS Near/Array Corrected Limestone Porosity (APLC)
60 (PU) 0

APS Formation Capture Cross-Section (SIGF)
0 (CU) 50

APS Total Correction in APLC (PHICOR_APLC)
-10 (PU) 10

APS Quality of Formation Capture Cross-Section (QSGF)
10 (----) 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)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	

GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
	HLDS: Hostile Litho−Density Sonde		
DPPM	Density Porosity Processing Mode	HIRS	
	APS−C: Accelerator−Porosity Tool		
	APS Software Version	5	
AASD	APS Thermal and Array Detectors High Voltage Setting	1936.01	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2033.55	V
AHCS	APS Holesize Correction Source	BS	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1702.52	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)	35	DEGF
BSCO_APS	APS TNPH Borehole Salinity Correction Option	YES	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source Correction Option	COMPUTED	
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	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	YES	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.07414	
NFRC	APS Near/Far Calibration Ratio	0.966885	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	68	DEGF
TNCO_APS	APS TNPH Computation Option	NO	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	−50000	PPM
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	68	DEGF
	System and Miscellaneous		
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	38000.00	PPM
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
RMFS	Resistivity of Mud Filtrate Sample	−50000.0000	OHMM
TD	Total Depth	10190.3	FT

Format: APSLiquidPorosity **Vertical Scale: 1:200** **Graphics File Created: 19−Jun−2024 18:25**

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	19−Jun−2024 18:25	
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	19−Jun−2024 18:25	

Company: International Ocean Discovery Program — Well: Expedition 403, Site U1618C

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	19−Jun−2024 18:25	1575.1 M	1195.6 M
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	19−Jun−2024 18:25	1575.1 M	1195.6 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

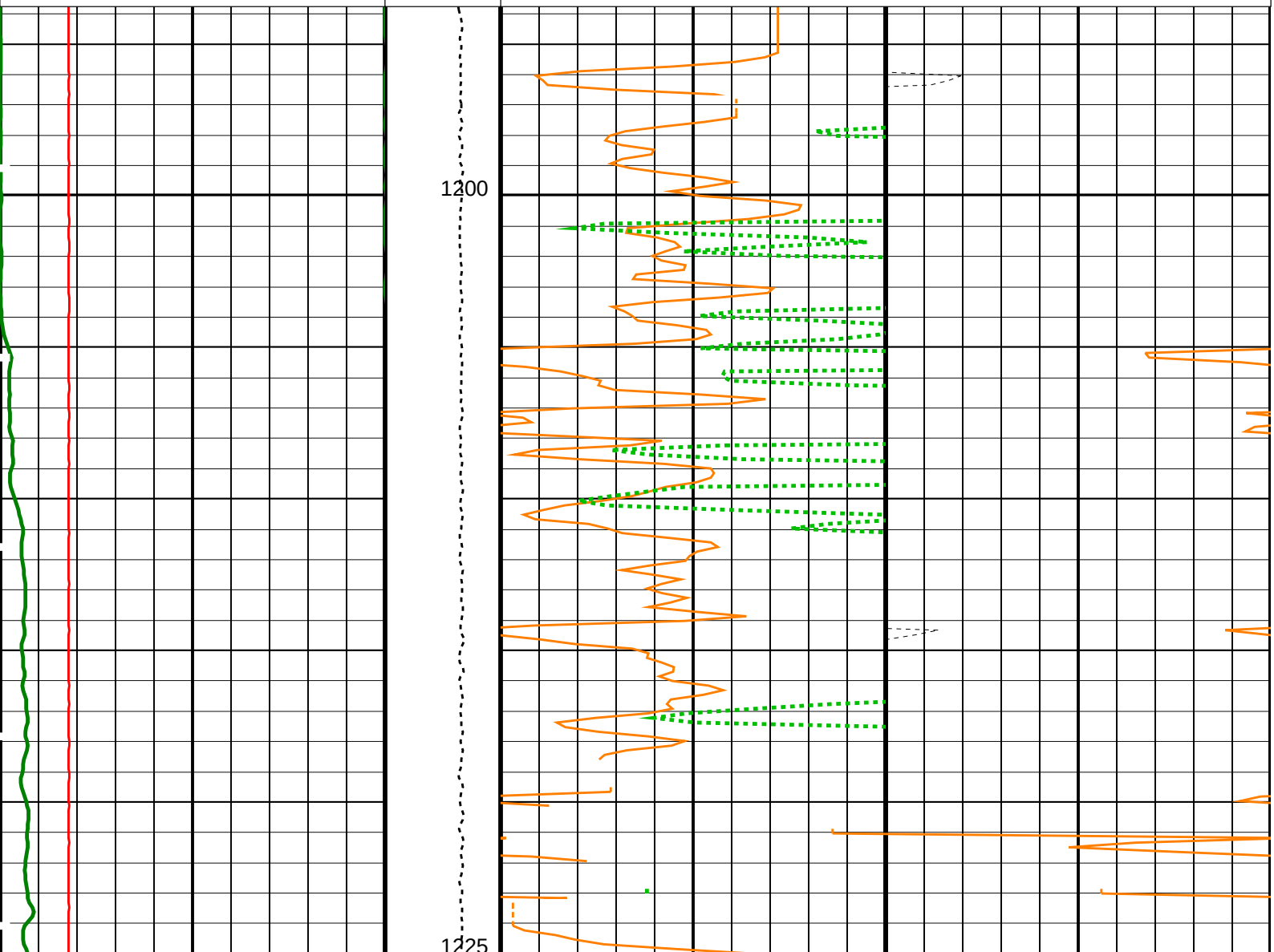
HLDS Long Spaced Photoelectric Effect (PEFL)
0 (−−−−) 10

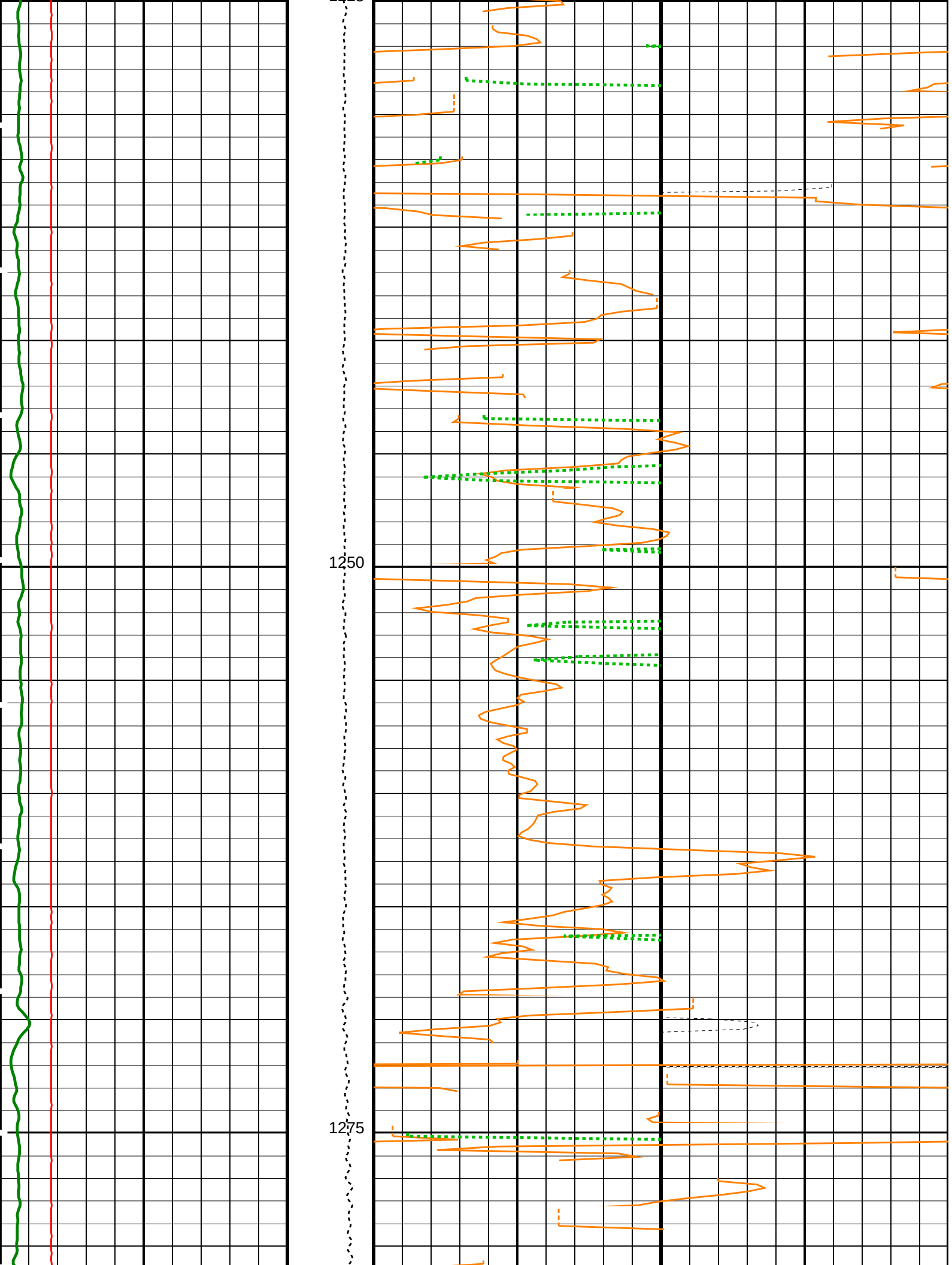
HLDS Bulk Density Correction (DRH)
−0.25 (G/C3) 0.25

HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

HLDS Bulk Density (RHOM)
3 (G/C3) 1

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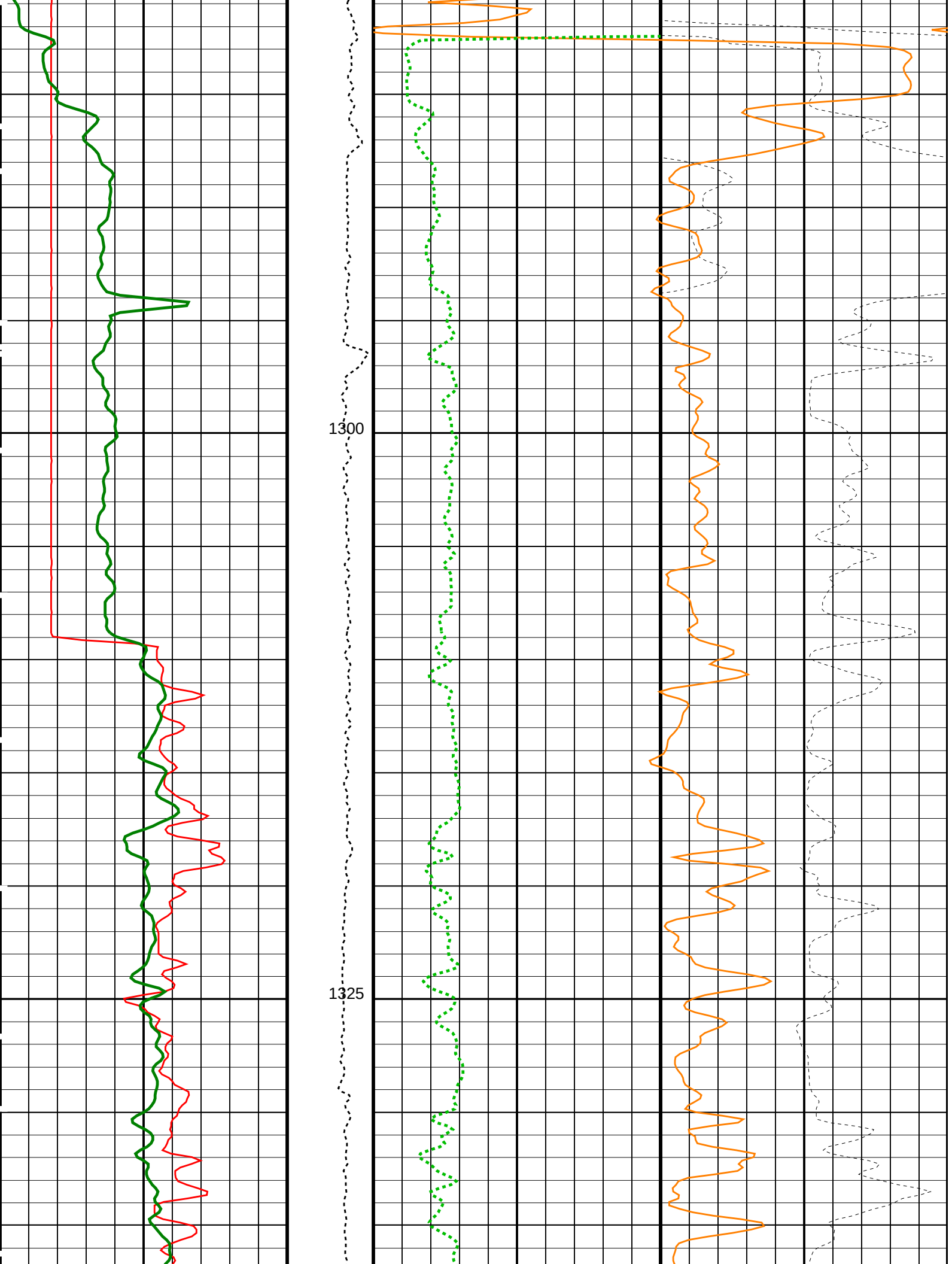
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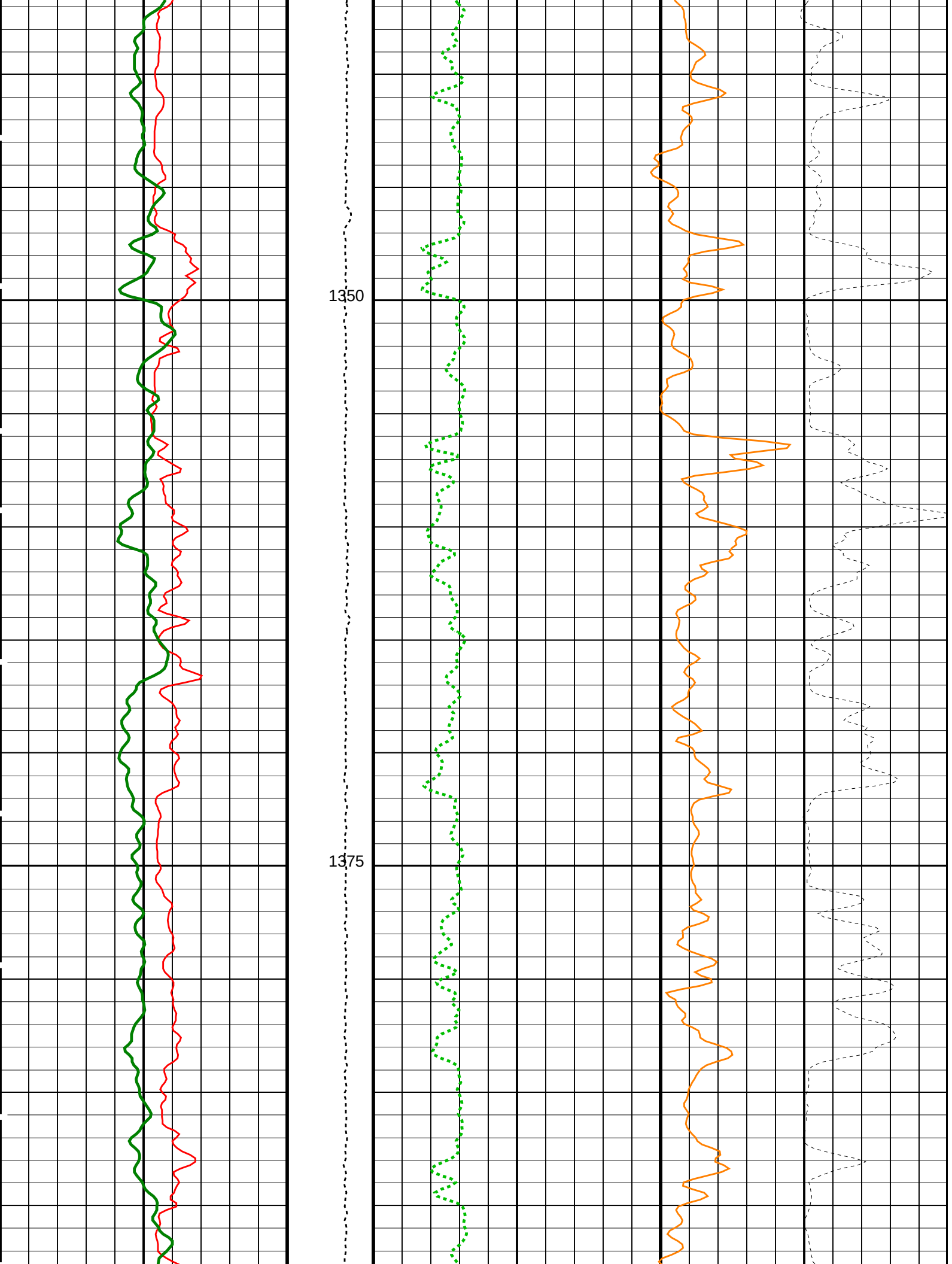
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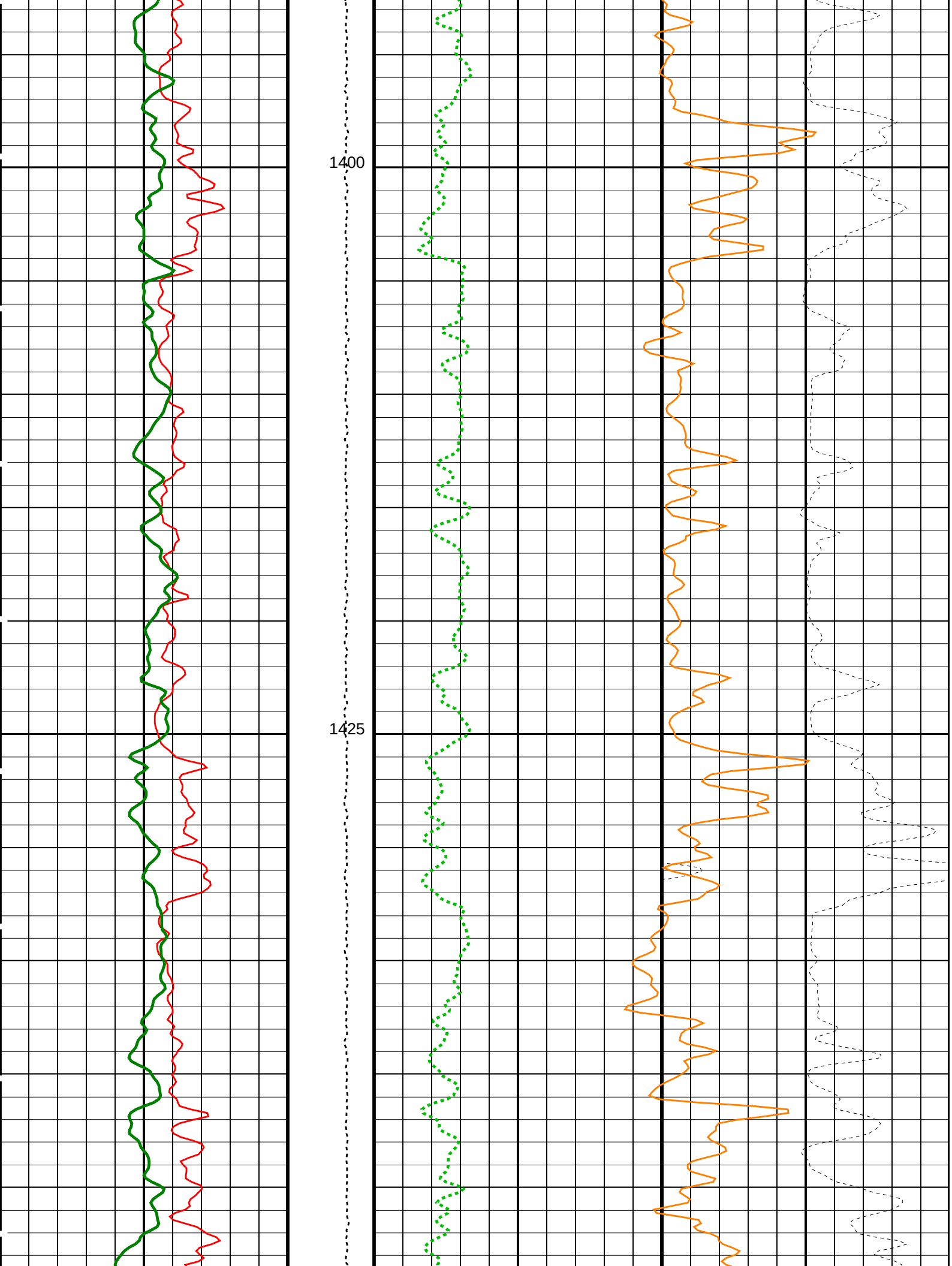
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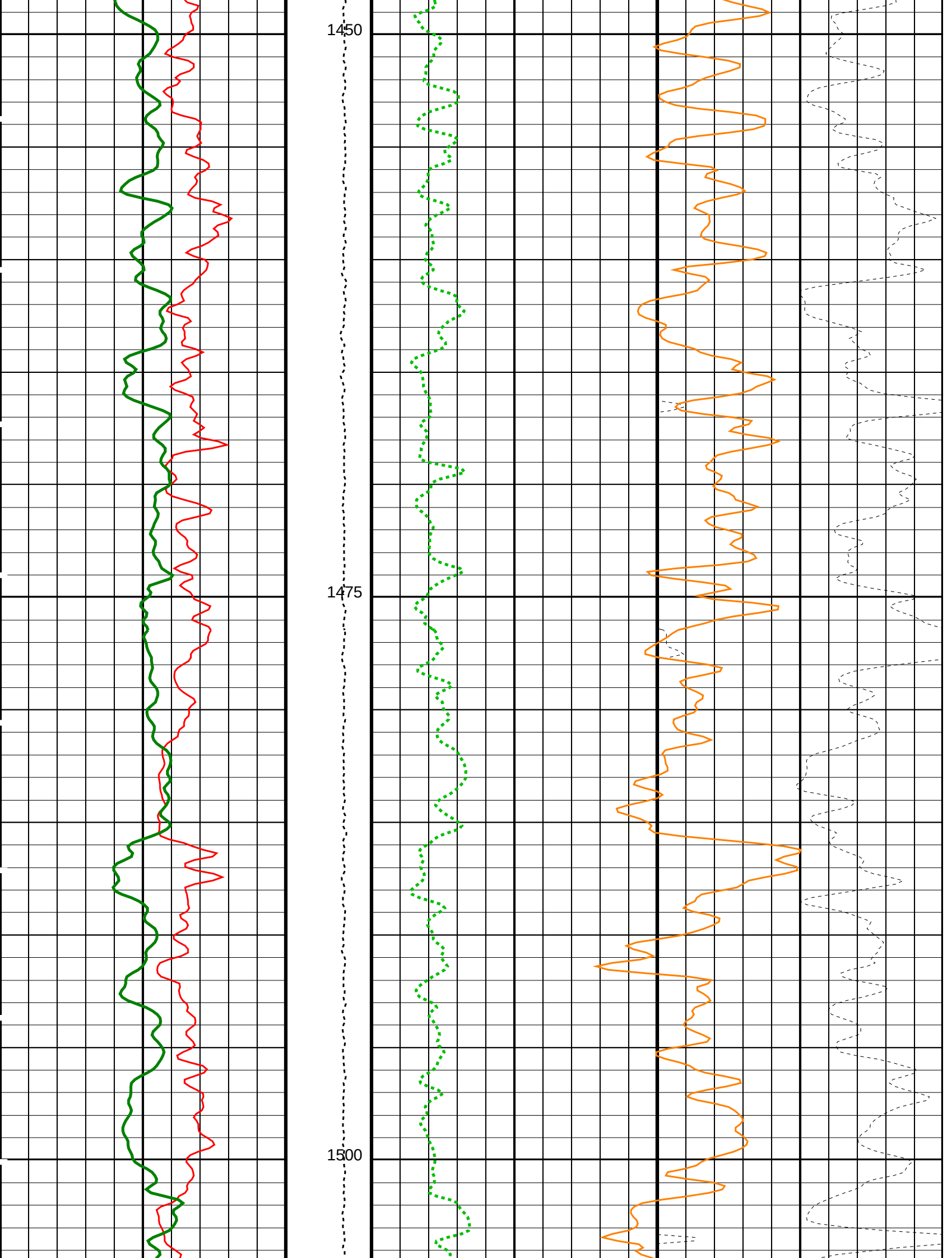
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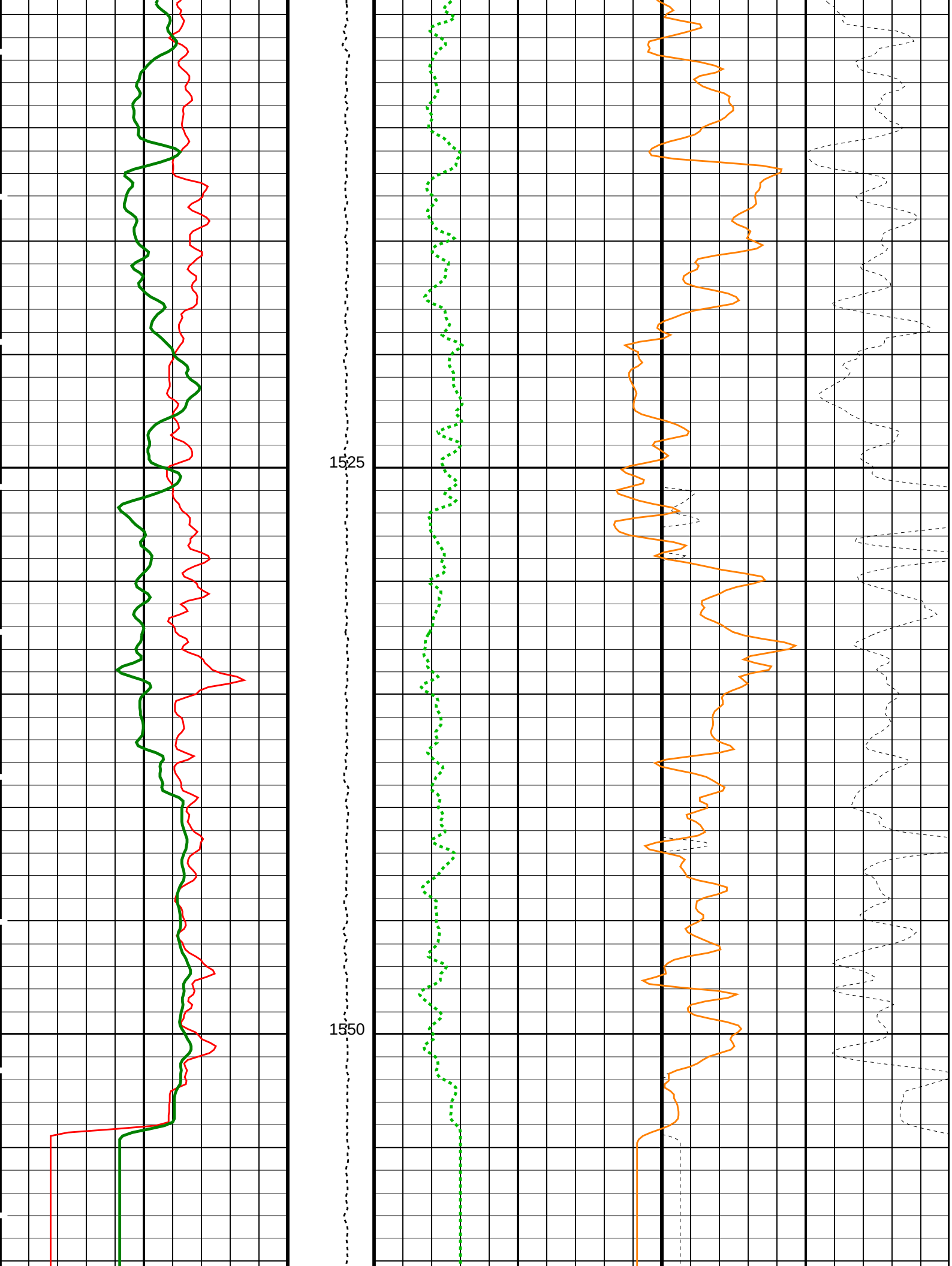
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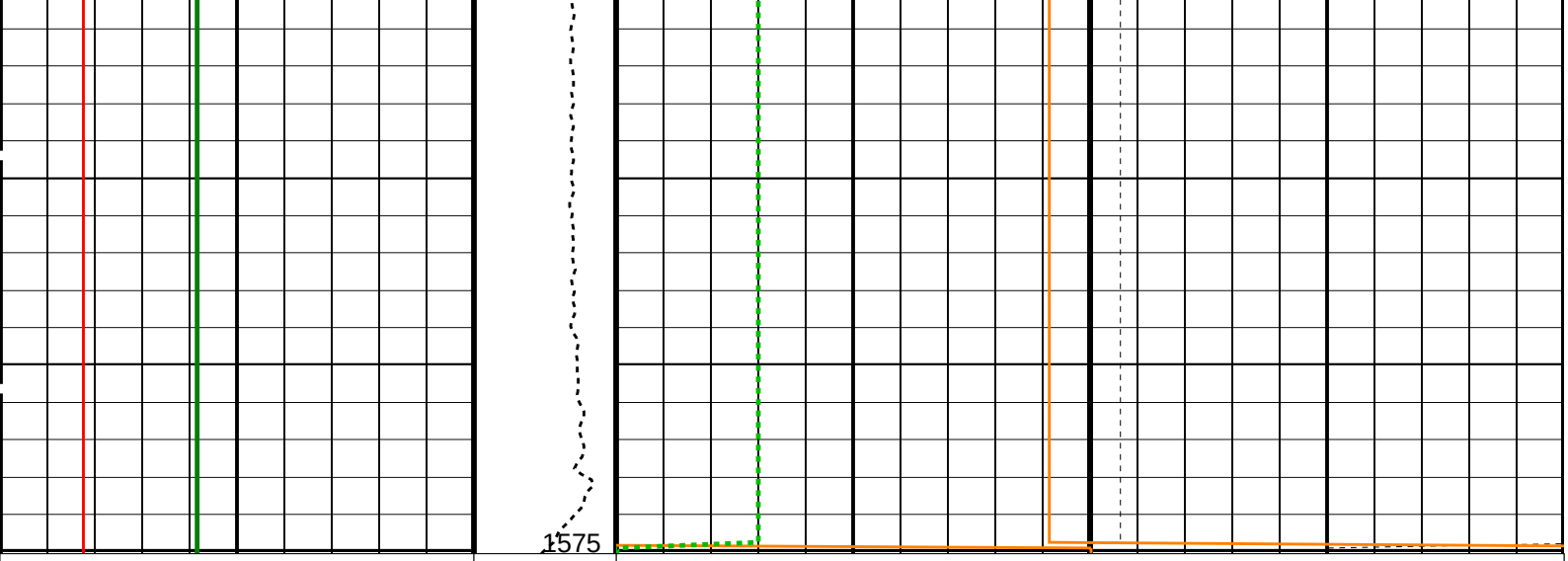


HLDS Caliper (LCAL)	Tension (TENS)	HLDS Bulk Density (RHOM)
0 (IN) 20	(LBF) 0 5000	3 (G/C3) 1

HNGS Spectroscopy Gamma Ray (HSGR)		HLDS Long Spaced Photoelectric Effect (PEFL)	HLDS Bulk Density Correction (DRH)
0 (GAPI) 150		0 (----) 10	−0.25 (G/C3) 0.25

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	HLDS: Hostile Litho−Density Sonde		
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	OFF	
MDEN	Matrix Density	2.6	G/C3
	APS−C: Accelerator−Porosity Tool		
	APS Software Version	5	
BHS	Borehole Status	OPEN	
DPPM	Density Porosity Processing Mode	HIRS	
GCSE	Generalized Caliper Selection	LCAL	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	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	−0.00179017	
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	0.987782	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970323	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
DPPM	Density Porosity Processing Mode	HIRS	
GCSE	Generalized Caliper Selection	LCAL	
	System and Miscellaneous		

BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3

Format: HLDSDensityPE Vertical Scale: 1:200 Graphics File Created: 19−Jun−2024 18:25

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	19−Jun−2024 18:25
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	19−Jun−2024 18:25

Company: International Ocean Discovery Program Well: Expedition 403, Site U1618C

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	19−Jun−2024 18:25	1575.1 M	1195.6 M
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	19−Jun−2024 18:25	1575.1 M	1195.6 M

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

HRLT Mud Resistivity (RM_HRLT)
0.02 (OHMM) 200

HRLT Resistivity 5 (RLA5)
0.2 (OHMM) 2000

HRLT Resistivity 4 (RLA4)
0.2 (OHMM) 2000

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 150

HRLT Resistivity 3 (RLA3)
0.2 (OHMM) 2000

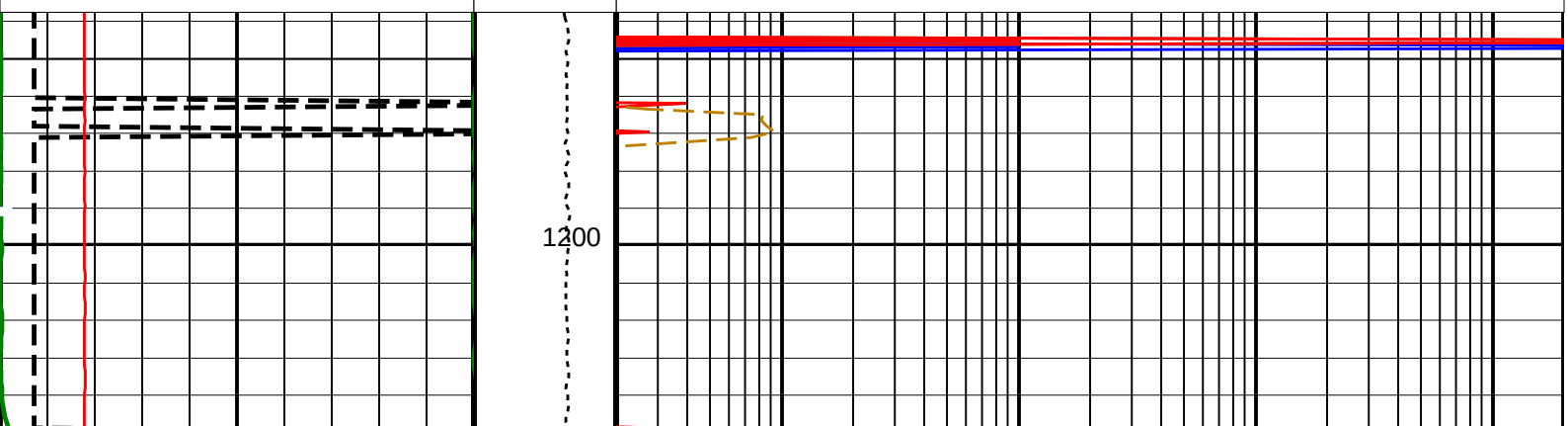
Invasion Diameter (DI_HRLT)
0 (IN) 50

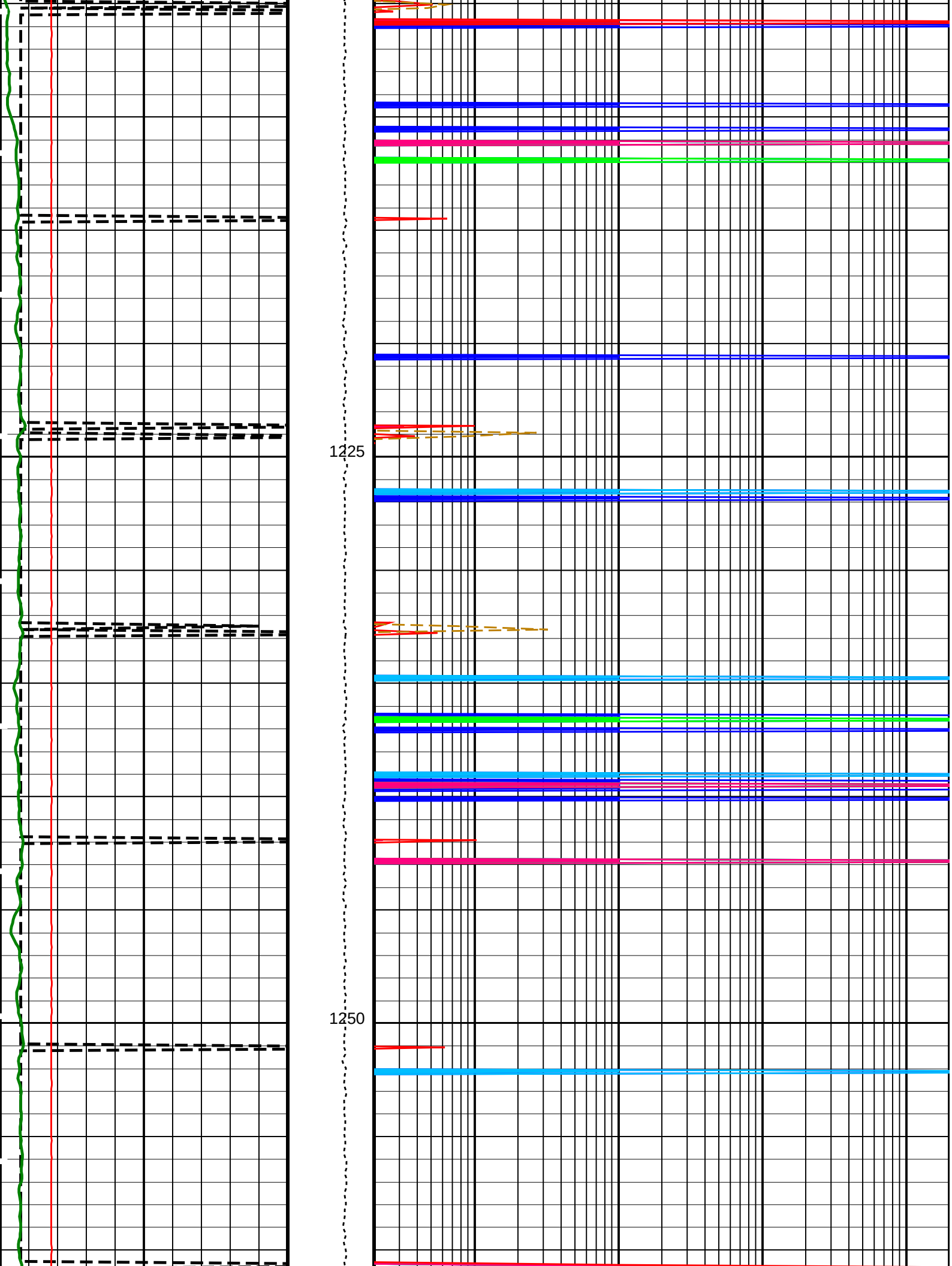
HRLT Resistivity 2 (RLA2)
0.2 (OHMM) 2000

HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
0 5000

HRLT Resistivity 1 (RLA1)
0.2 (OHMM) 2000

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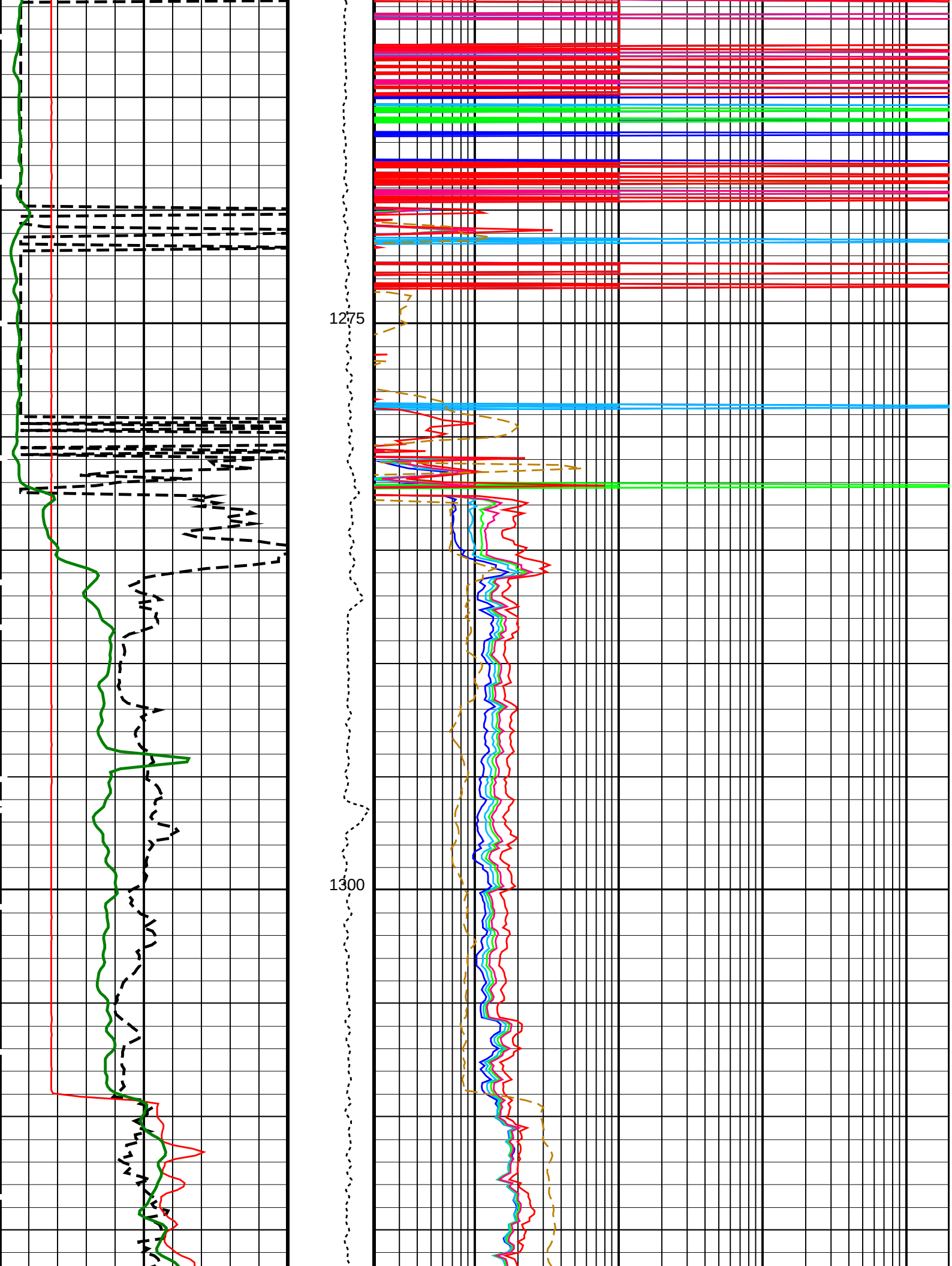
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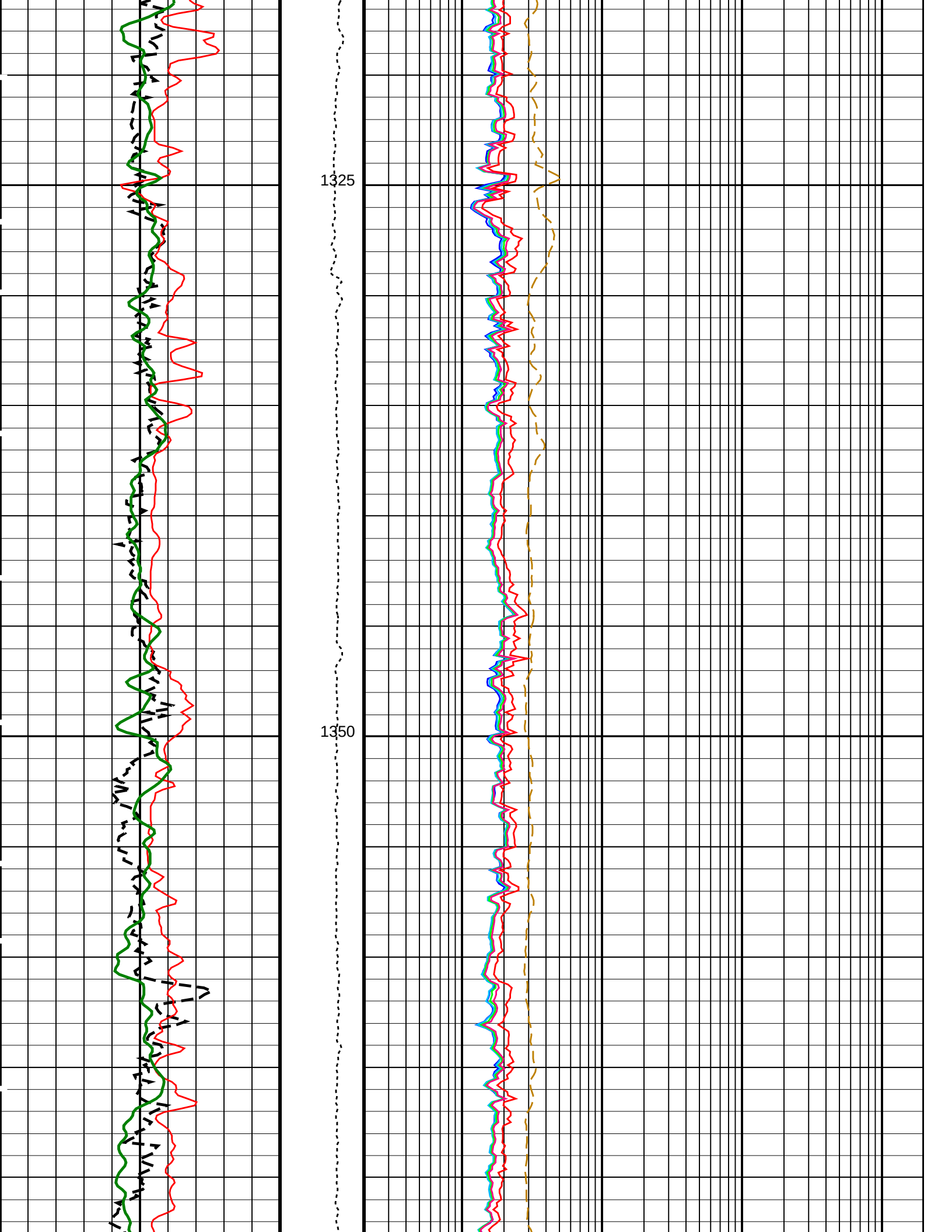
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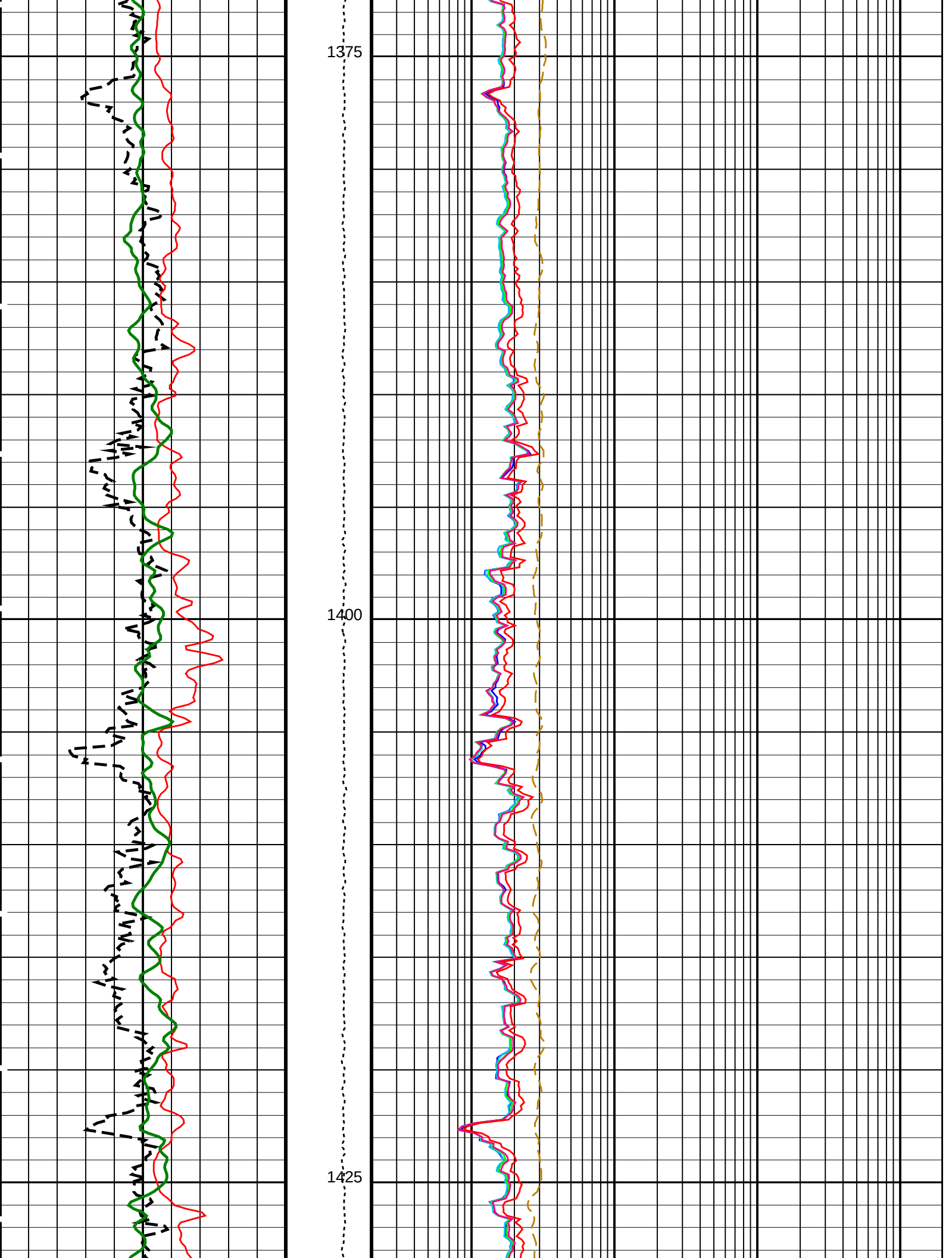
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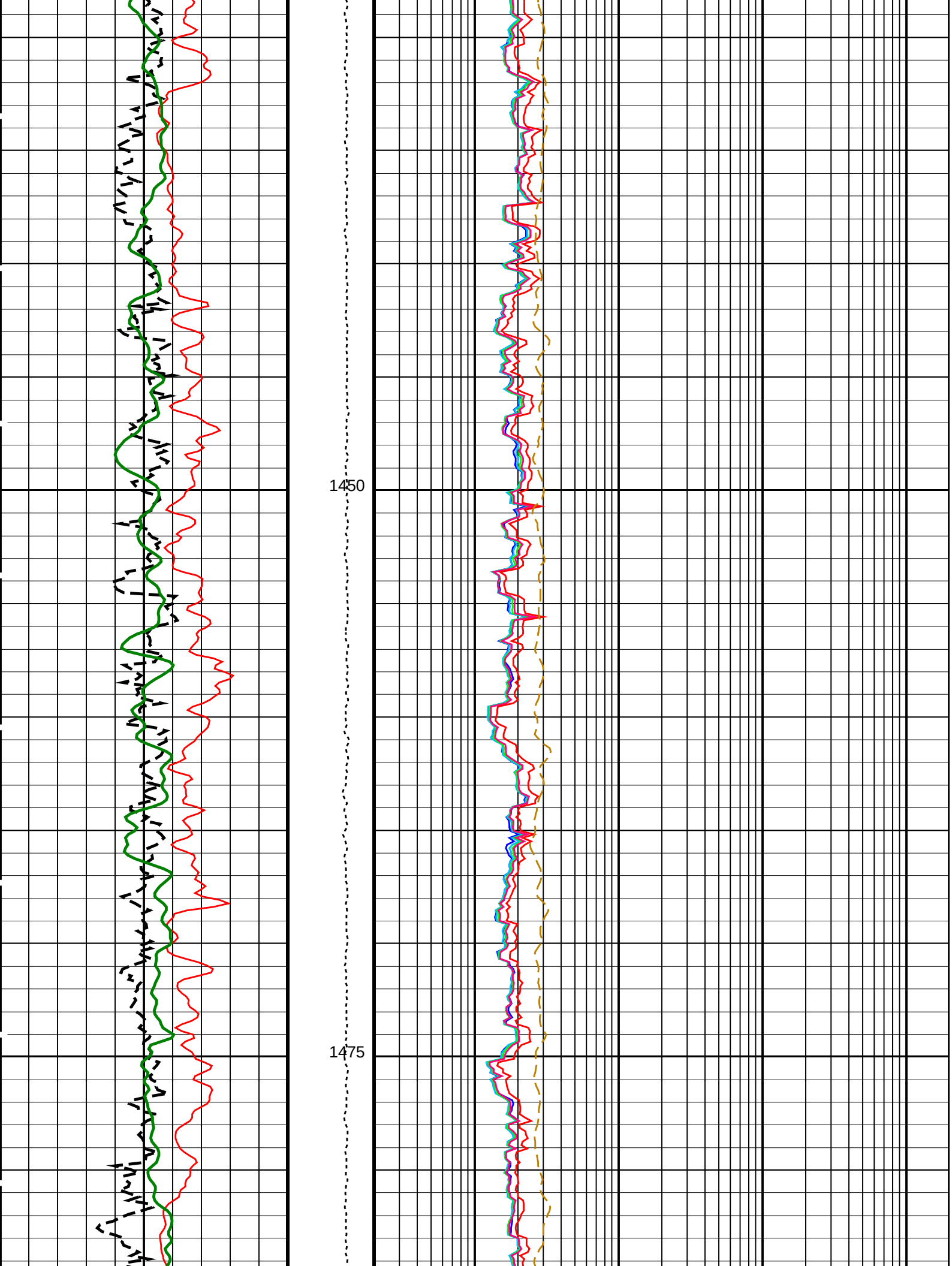
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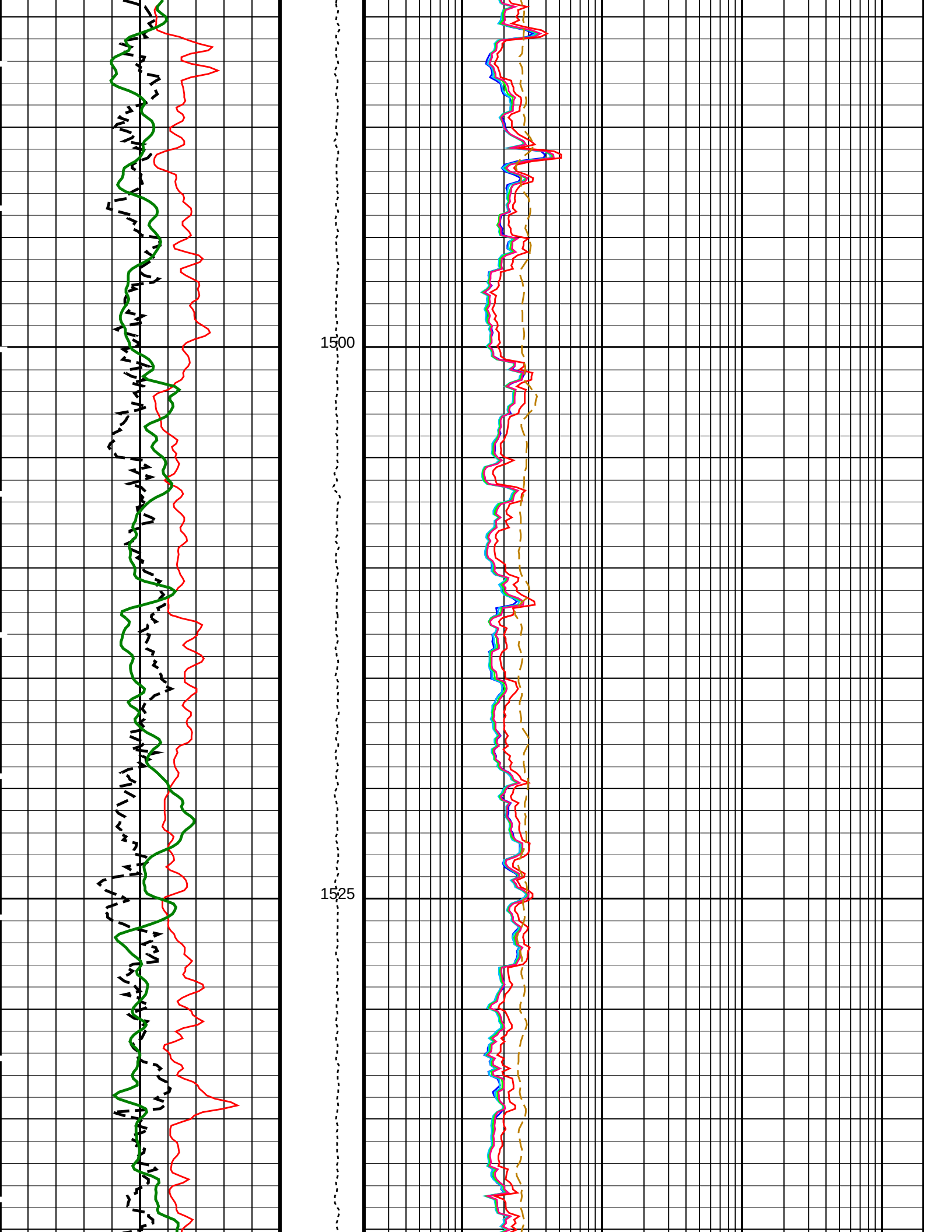
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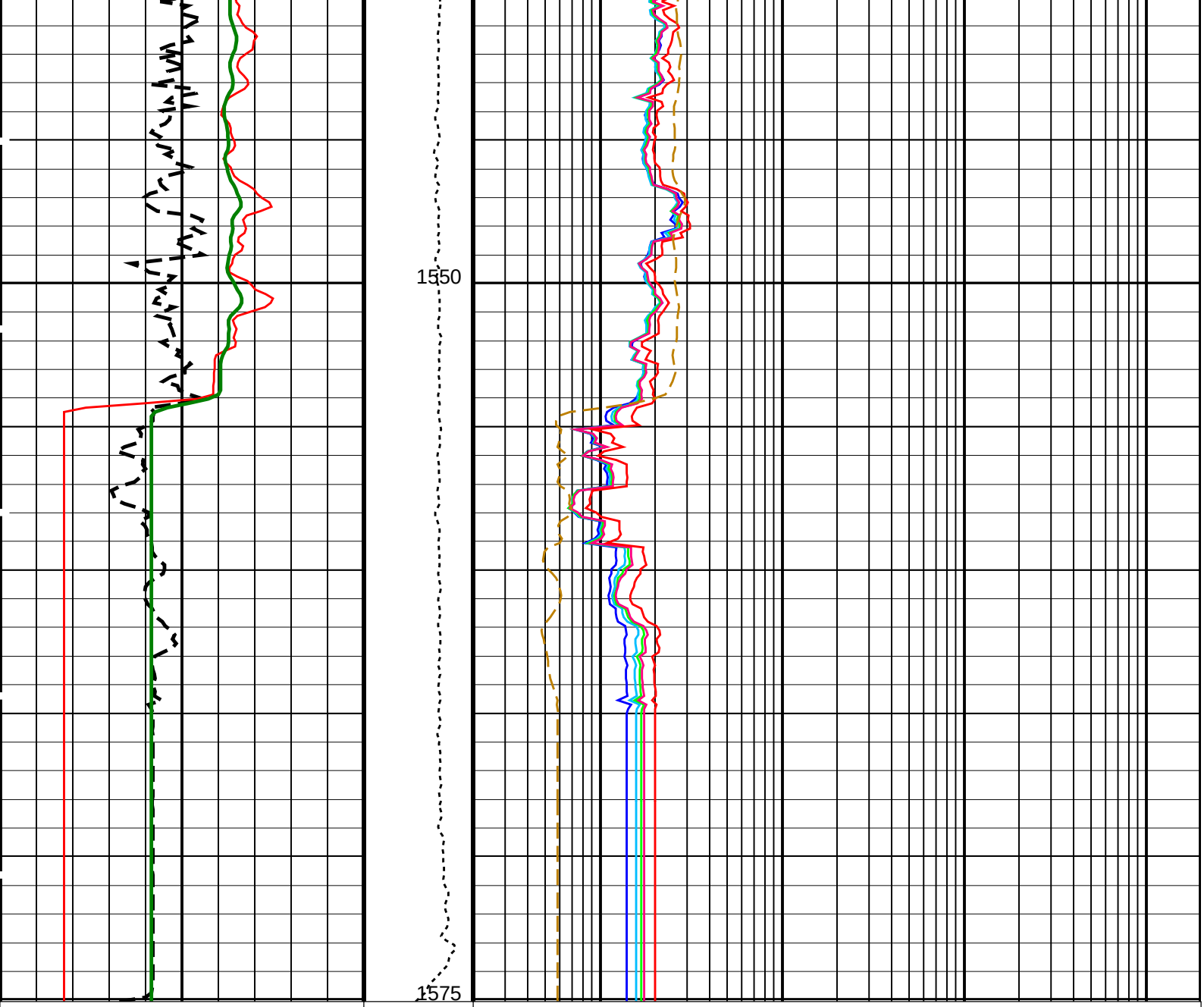


HLDS Caliper (LCAL) 0 (IN) 20	Tension (TENS) (LBF) 0 5000	HRLT Resistivity 1 (RLA1) 0.2 (OHMM) 2000
Invasion Diameter (DI_HRLT) 0 (IN) 50		HRLT Resistivity 2 (RLA2) 0.2 (OHMM) 2000
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 150		HRLT Resistivity 3 (RLA3) 0.2 (OHMM) 2000
		HRLT Resistivity 4 (RLA4) 0.2 (OHMM) 2000
		HRLT Resistivity 5 (RLA5) 0.2 (OHMM) 2000
		HRLT Mud Resistivity (RM_HRLT) 0.02 (OHMM) 200

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)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
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	68	DEGF
	APS−C: Accelerator−Porosity Tool		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
	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)	35	DEGF
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	
GGRD	Geothermal Gradient	0.01	DF/F
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	−0.00179017	
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	
SHT	Surface Hole Temperature	68	DEGF
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.987782	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970323	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGF
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3
MST	Mud Sample Temperature	23.00	DEGC
TD	Total Depth	10190.3	FT

Format: HRLT **Vertical Scale: 1:200** **Graphics File Created: 19−Jun−2024 18:25**

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	19−Jun−2024 18:25
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	19−Jun−2024 18:25

Company: International Ocean Discovery Program	Well: Expedition 403, Site U1618C

Output DLIS Files

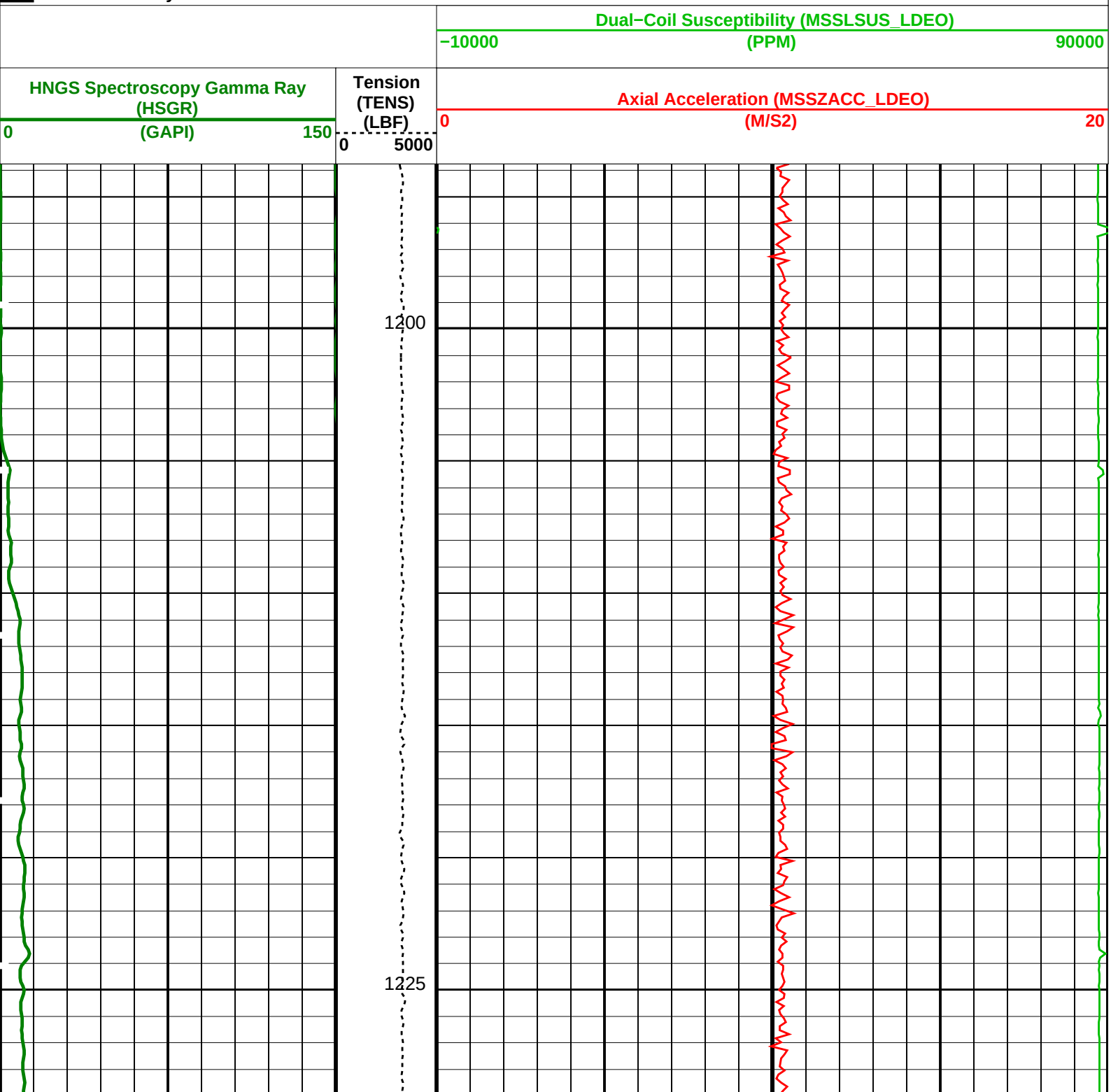
DEFAULT	MSS_LDEO_HRLA_LDL_016LUP	FN:18	PRODUCER	19−Jun−2024 18:25	1575.1 M	1195.6 M
RTB	MSS_LDEO_HRLA_LDL_016LUP	FN:19	PRODUCER	19−Jun−2024 18:25	1575.1 M	1195.6 M

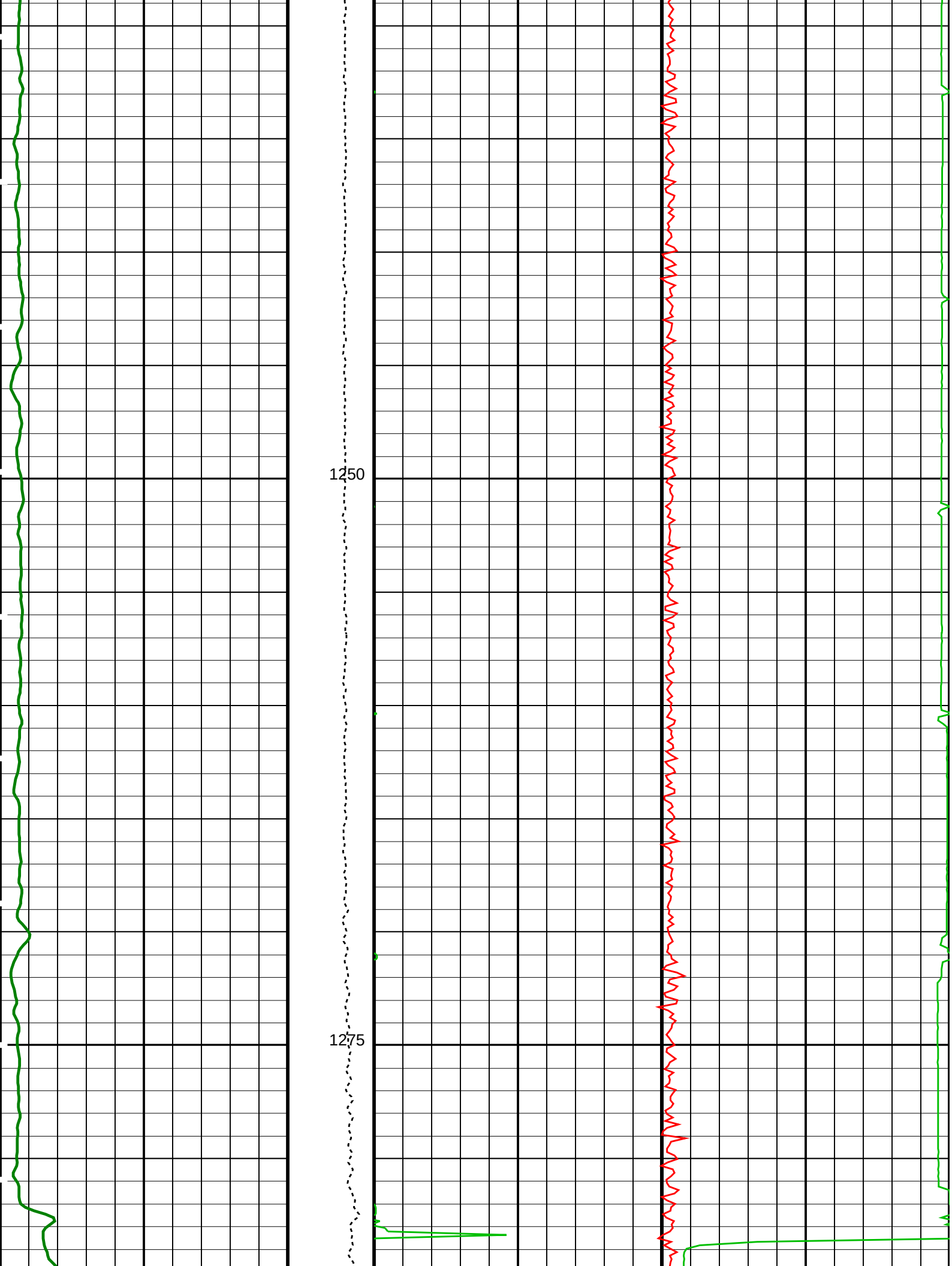
OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

PIP SUMMARY

Time Mark Every 60 S

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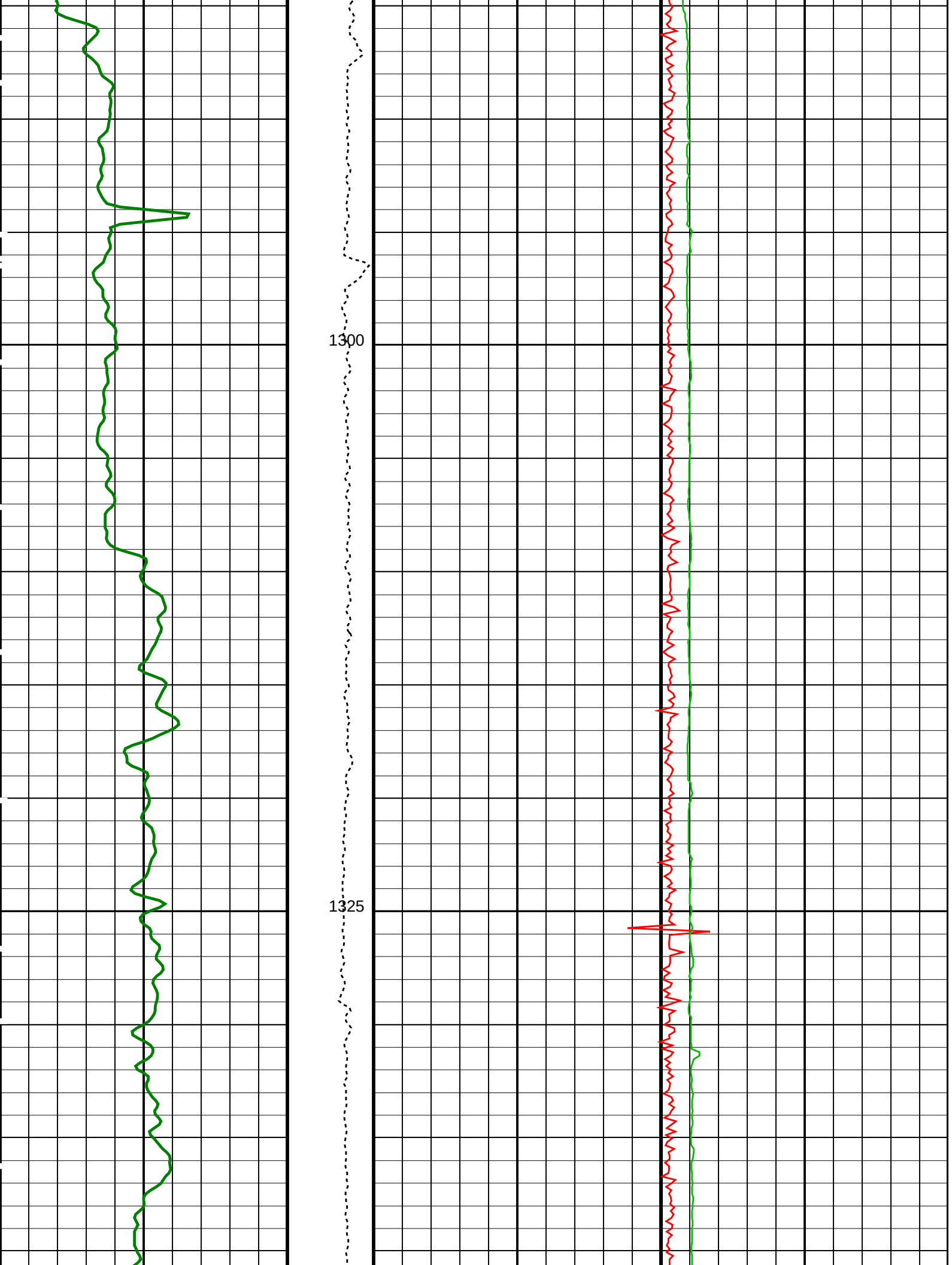
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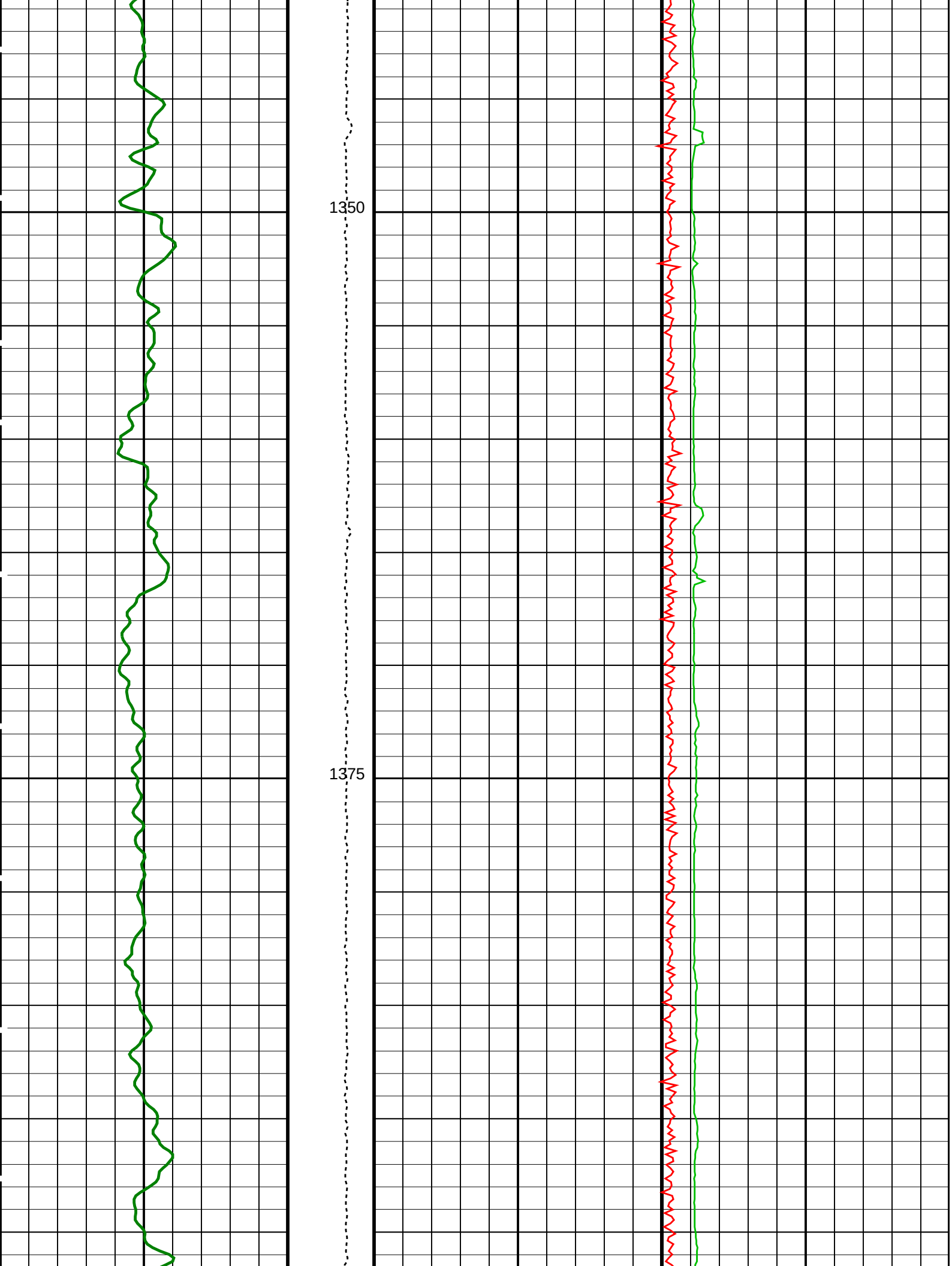
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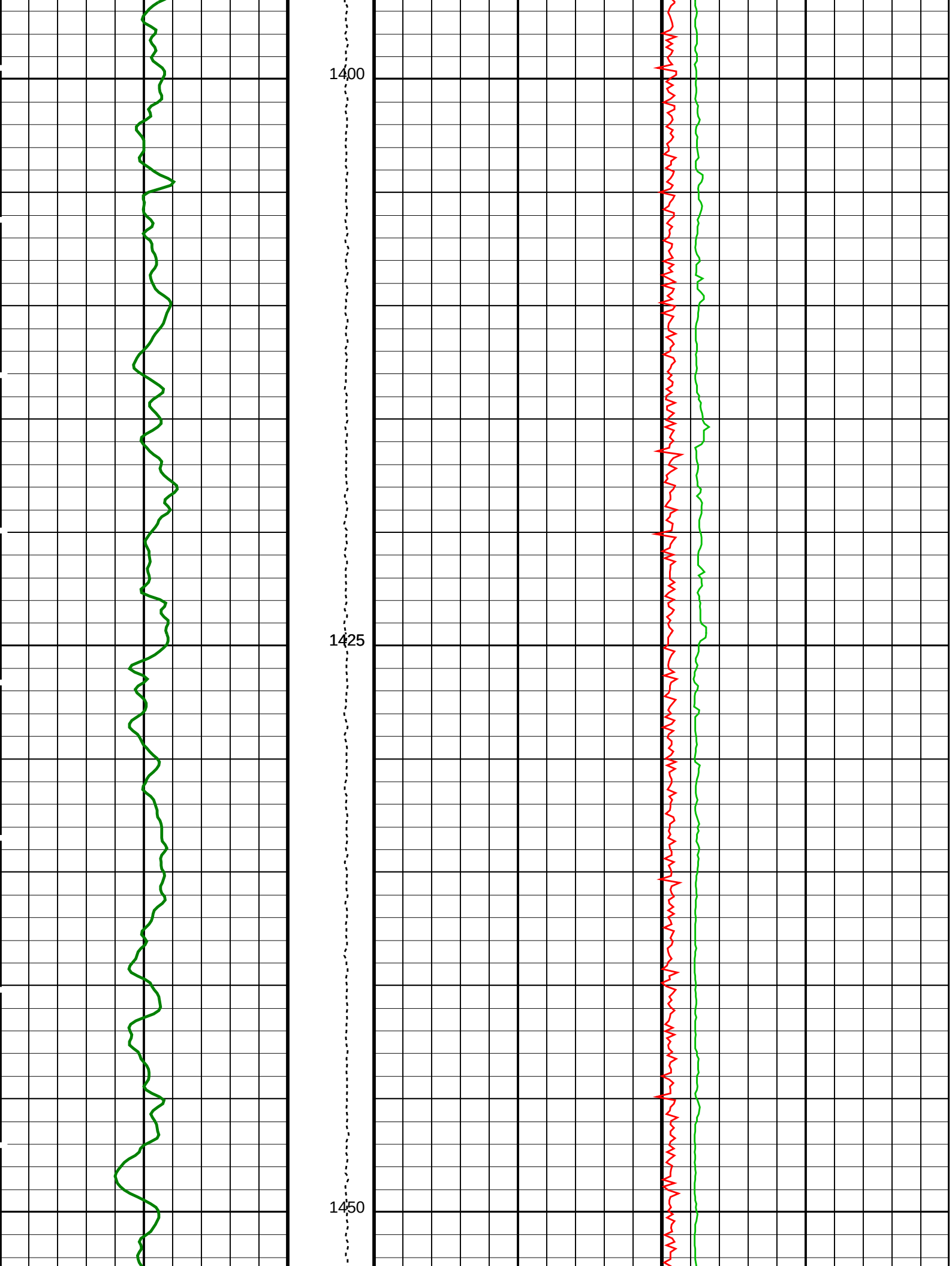
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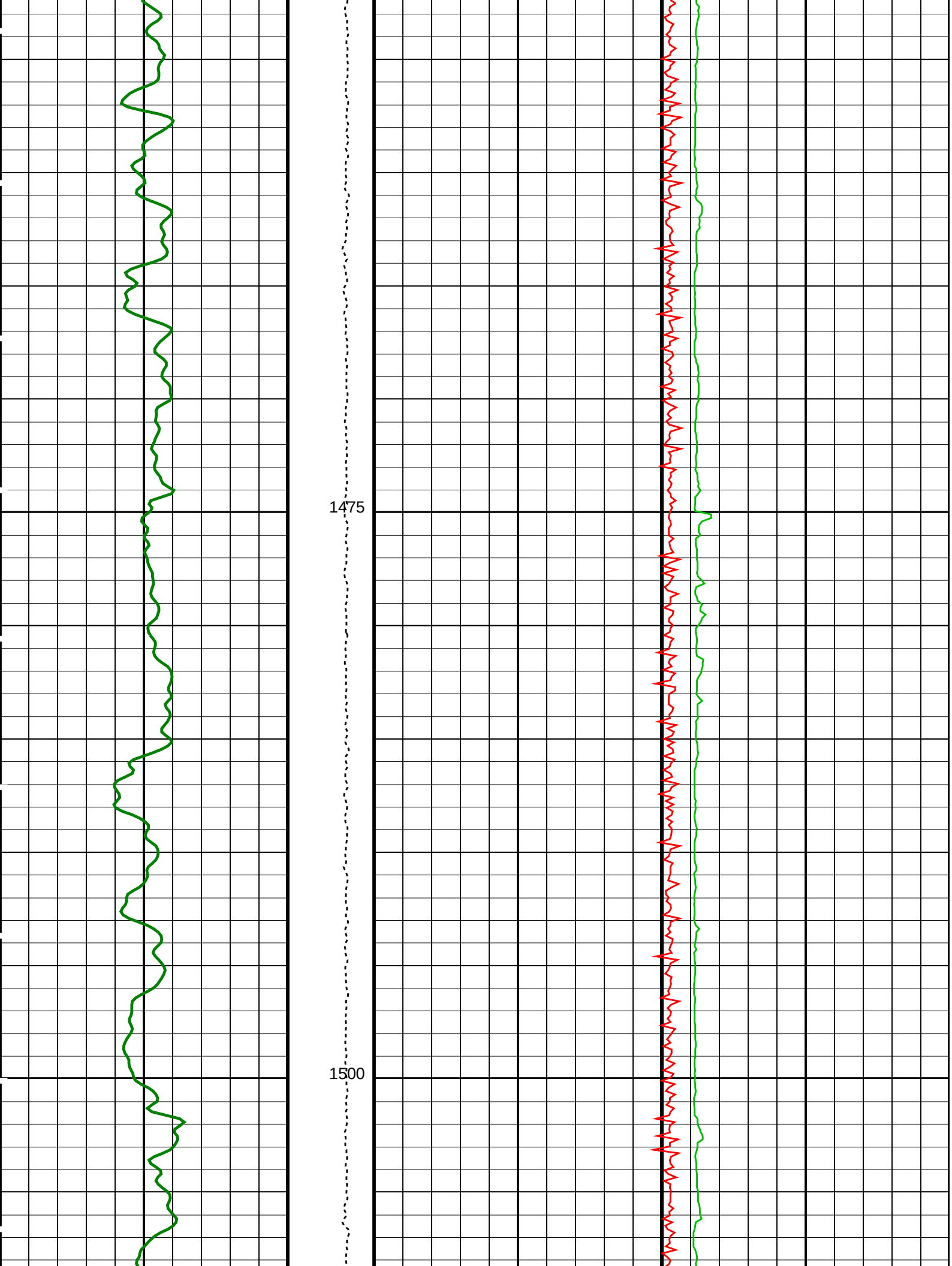
1475
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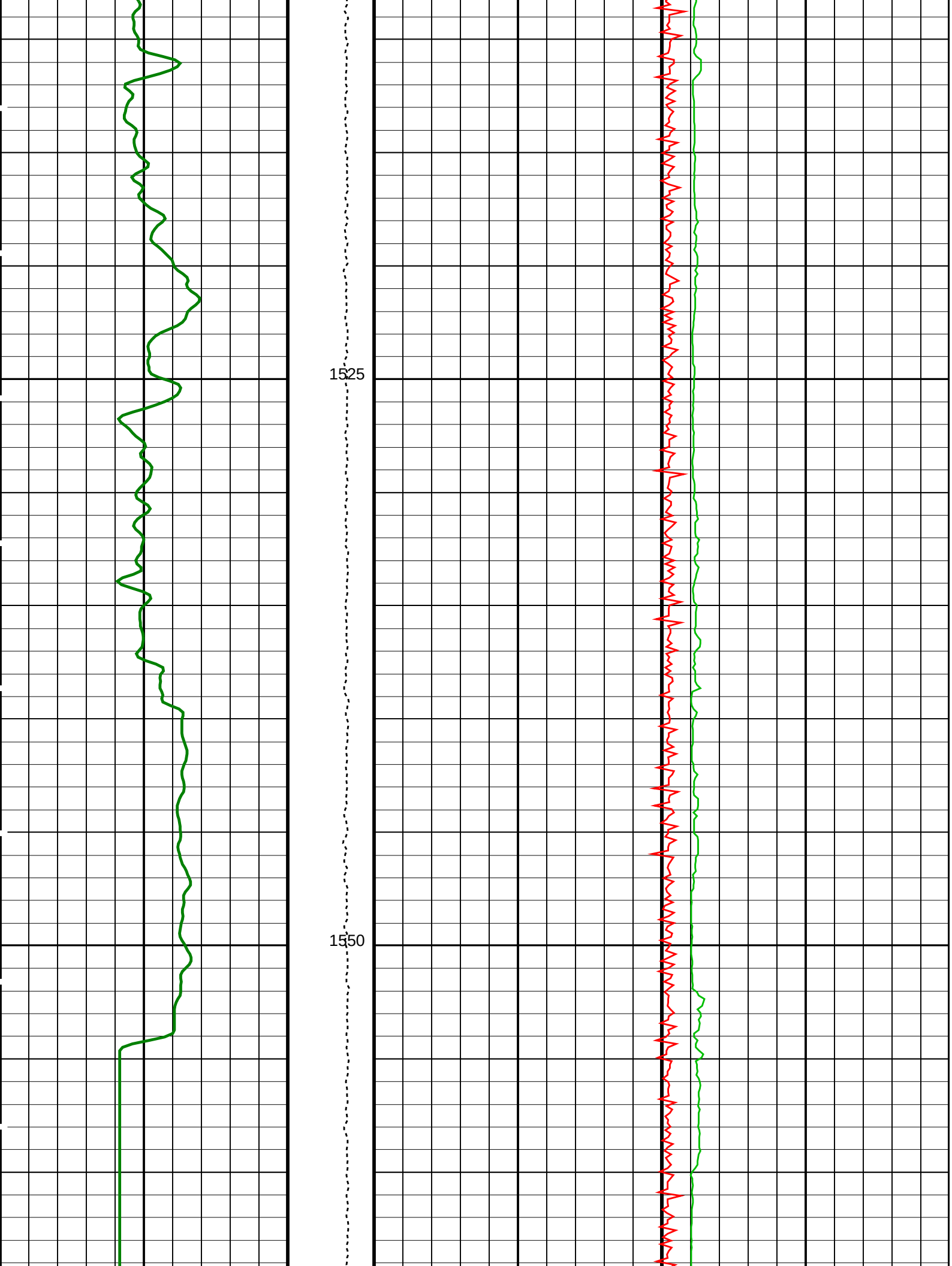
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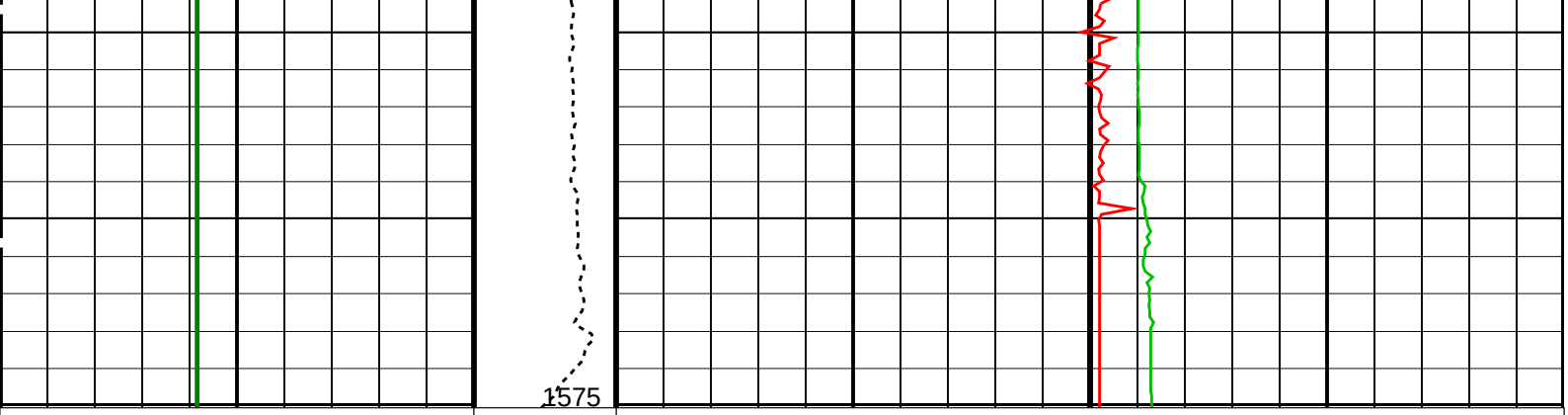


HNGS Spectroscopy Gamma Ray (HSGR)	Tension (TENS) (LBF)	Axial Acceleration (MSSZACC_LDEO)
0 (GAPI) 150	0 5000	0 (M/S2) 20
		Dual−Coil Susceptibility (MSSLSUS_LDEO)
		−10000 (PPM) 90000

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	HRLT−B: High Resolution Laterolog Array − B		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	APS−C: Accelerator−Porosity Tool		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	HNGS−BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	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	−0.00179017	
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	0.987782	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.970323	
	EDTC−B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.02	G/C3

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 19−Jun−2024 18:25

OP System Version: 19C0−187

MSS_LDEO−A	19C0−187	HRLT−B	19C0−187
HLDS	19C0−187	LDSC−B	19C0−187
APS−C	19C0−187	HNGC−B	19C0−187
HNGS−BA	19C0−187	EDTC−B	19C0−187

Output DLIS Files

DEFAULT	**MSS_LDEO_HRLA_LDL_016LUP**	**FN:18**	**PRODUCER**	**19−Jun−2024 18:25**
RTB	**MSS_LDEO_HRLA_LDL_016LUP**	**FN:19**	**PRODUCER**	**19−Jun−2024 18:25**

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array − B Wellsite Calibration − HRLT M01							
Before: 19−Jun−2024 16:20 After: 19−Jun−2024 20:43							
HRLT M0−M1 Voltage Plus − 0	0	N/A	−318.6	−318.7	−0.1213	9.681	UV
HRLT M0−M1 Voltage Plus − 1	0	N/A	−330.5	−331.2	−0.6733	9.681	UV
HRLT M0−M1 Voltage Plus − 2	0	N/A	−337.4	−337.7	−0.3578	9.681	UV
HRLT M0−M1 Voltage Plus − 3	0	N/A	−327.9	−328.6	−0.7325	9.681	UV
HRLT M0−M1 Voltage Plus − 4	0	N/A	−319.3	−319.5	−0.2855	9.681	UV
HRLT M0−M1 Voltage Plus − 5	0	N/A	−320.9	−321.1	−0.2028	9.681	UV
HRLT M0−M1 Voltage Plus − 6	0	N/A	319.7	320.5	0.8284	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: 19−Jun−2024 16:20 After: 19−Jun−2024 20:43							
HRLT M1−M2 Voltage Plus − 0	0	N/A	1736	1738	1.195	53.42	UV
HRLT M1−M2 Voltage Plus − 1	0	N/A	1804	1808	3.747	53.42	UV
HRLT M1−M2 Voltage Plus − 2	0	N/A	1837	1839	2.017	53.42	UV
HRLT M1−M2 Voltage Plus − 3	0	N/A	1785	1790	4.496	53.42	UV
HRLT M1−M2 Voltage Plus − 4	0	N/A	1739	1741	1.845	53.42	UV
HRLT M1−M2 Voltage Plus − 5	0	N/A	1750	1751	1.436	53.42	UV
HRLT M1−M2 Voltage Plus − 6	0	N/A	−1752	−1757	−5.024	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: 19−Jun−2024 16:20 After: 19−Jun−2024 20:43							
HRLT M2−M3 Voltage Plus − 0	0	N/A	1730	1730	0.4117	53.42	UV
HRLT M2−M3 Voltage Plus − 1	0	N/A	1807	1810	2.181	53.42	UV
HRLT M2−M3 Voltage Plus − 2	0	N/A	1842	1843	1.560	53.42	UV
HRLT M2−M3 Voltage Plus − 3	0	N/A	1794	1798	4.020	53.42	UV
HRLT M2−M3 Voltage Plus − 4	0	N/A	1742	1744	1.479	53.42	UV
HRLT M2−M3 Voltage Plus − 5	0	N/A	1754	1755	1.061	53.42	UV
HRLT M2−M3 Voltage Plus − 6	0	N/A	−1744	−1748	−4.086	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: 19−Jun−2024 16:20 After: 19−Jun−2024 20:43							
HRLT A3−A4 Voltage Plus − 0	0	N/A	68510	68580	69.00	2100	UV
HRLT A3−A4 Voltage Plus − 1	0	N/A	71440	71610	165.5	2100	UV
HRLT A3−A4 Voltage Plus − 2	0	N/A	73090	73200	106.8	2100	UV
HRLT A3−A4 Voltage Plus − 3	0	N/A	71440	71640	199.6	2100	UV
HRLT A3−A4 Voltage Plus − 4	0	N/A	69340	69440	98.93	2100	UV
HRLT A3−A4 Voltage Plus − 5	0	N/A	69830	69900	72.49	2100	UV
HRLT A3−A4 Voltage Plus − 6	0	N/A	−67960	−68160	−195.9	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: 19−Jun−2024 16:20 After: 19−Jun−2024 20:43							
HRLT A4−A5 Voltage Plus − 0	0	N/A	68590	68670	78.41	2100	UV
HRLT A4−A5 Voltage Plus − 1	0	N/A	71660	71830	177.4	2100	UV
HRLT A4−A5 Voltage Plus − 2	0	N/A	73290	73390	98.59	2100	UV
HRLT A4−A5 Voltage Plus − 3	0	N/A	71590	71790	195.8	2100	UV
HRLT A4−A5 Voltage Plus − 4	0	N/A	69450	69550	98.93	2100	UV
HRLT A4−A5 Voltage Plus − 5	0	N/A	69910	70000	84.78	2100	UV
HRLT A4−A5 Voltage Plus − 6	0	N/A	−68170	−68370	−198.5	2100	UV

HRLT A4−A5 Voltage Plus − 7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array − B Wellsite Calibration − HRLT V56
Before: 19−Jun−2024 16:20 After: 19−Jun−2024 20:43

HRLT A5−A6 Voltage Plus − 0	0	N/A	68450	68530	79.66	2100	UV
HRLT A5−A6 Voltage Plus − 1	0	N/A	71500	71660	165.5	2100	UV
HRLT A5−A6 Voltage Plus − 2	0	N/A	73130	73250	120.0	2100	UV
HRLT A5−A6 Voltage Plus − 3	0	N/A	71440	71650	210.3	2100	UV
HRLT A5−A6 Voltage Plus − 4	0	N/A	69320	69420	102.3	2100	UV
HRLT A5−A6 Voltage Plus − 5	0	N/A	69800	69870	71.20	2100	UV
HRLT A5−A6 Voltage Plus − 6	0	N/A	−68010	−68210	−195.9	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: 19−Jun−2024 16:20 After: 19−Jun−2024 20:43

HRLT Torpedo−M0 Voltage − 0	0	N/A	−68000	−68070	−71.88	2100	UV
HRLT Torpedo−M0 Voltage − 1	0	N/A	−71310	−71480	−169.5	2100	UV
HRLT Torpedo−M0 Voltage − 2	0	N/A	−72980	−73080	−101.7	2100	UV
HRLT Torpedo−M0 Voltage − 3	0	N/A	−71380	−71560	−185.9	2100	UV
HRLT Torpedo−M0 Voltage − 4	0	N/A	−69290	−69380	−93.20	2100	UV
HRLT Torpedo−M0 Voltage − 5	0	N/A	−69760	−69840	−79.13	2100	UV
HRLT Torpedo−M0 Voltage − 6	0	N/A	67780	67970	190.5	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: 19−Jun−2024 16:20 After: 19−Jun−2024 20:43

HRLT Bridle#9−M0 Voltage − 0	0	N/A	−68040	−68100	−67.09	2100	UV
HRLT Bridle#9−M0 Voltage − 1	0	N/A	−71400	−71570	−179.1	2100	UV
HRLT Bridle#9−M0 Voltage − 2	0	N/A	−73070	−73170	−98.54	2100	UV
HRLT Bridle#9−M0 Voltage − 3	0	N/A	−71450	−71650	−205.4	2100	UV
HRLT Bridle#9−M0 Voltage − 4	0	N/A	−69340	−69430	−93.83	2100	UV
HRLT Bridle#9−M0 Voltage − 5	0	N/A	−69800	−69870	−69.23	2100	UV
HRLT Bridle#9−M0 Voltage − 6	0	N/A	67870	68060	192.1	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: 19−Jun−2024 16:20 After: 19−Jun−2024 20:43

HRLT Source Current Plus − 0	0	N/A	283.8	284.2	0.3360	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: 19−Jun−2024 16:20 After: 19−Jun−2024 20:43

HRLT Vertical Voltage Pl − 0	0	N/A	−320.1	−320.0	0.04379	9.681	UV
HRLT Vertical Voltage Pl − 1	0	N/A	−324.2	−324.6	−0.4794	9.681	UV
HRLT Vertical Voltage Pl − 2	0	N/A	−330.1	−330.2	−0.1504	9.681	UV
HRLT Vertical Voltage Pl − 3	0	N/A	−319.3	−319.8	−0.5142	9.681	UV
HRLT Vertical Voltage Pl − 4	0	N/A	−308.4	−308.5	−0.1512	9.681	UV
HRLT Vertical Voltage Pl − 5	0	N/A	−325.1	−325.1	−0.02808	9.681	UV
HRLT Vertical Voltage Pl − 6	0	N/A	325.8	326.5	0.7440	9.681	UV
HRLT Vertical Voltage Pl − 7	0	N/A	−322.7	−322.7	0	9.681	UV

Hostile Litho−Density Sonde Wellsite Calibration − Background Measurement
Master: 4−May−2024 14:16 Before: 19−Jun−2024 16:23 After: 19−Jun−2024 20:46

SS Cs Resolution Bkg	9.000	7.737	7.664	7.762	0.09812	1.800	%
LS Cs Resolution Bkg	9.000	8.001	8.086	8.018	−0.06785	1.800	%
LSW1 Background	100.0	66.74	66.50	67.04	0.5443	3.000	CPS
LSW2 Background	100.0	60.19	60.90	59.81	−1.086	3.000	CPS
LSW3 Background	200.0	137.3	136.9	136.1	−0.7662	6.000	CPS
LSW4 Background	250.0	169.8	168.9	170.2	1.297	7.500	CPS
LSW5 Background	600.0	397.3	394.2	395.2	1.083	18.00	CPS
SSW1 Background	100.0	65.54	64.78	64.49	−0.2967	3.000	CPS
SSW2 Background	200.0	110.7	111.1	109.5	−1.606	6.000	CPS
SSW3 Background	500.0	310.2	307.2	310.1	2.992	15.00	CPS
SSW4 Background	270.0	166.6	164.5	166.0	1.507	8.100	CPS
SSW5 Background	200.0	119.6	118.1	118.9	0.8510	6.000	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Aluminum Measurement
Master: 4−May−2024 14:47

LSW1 Aluminum	600.0	382.6	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	559.3	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	681.5	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	341.8	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	305.4	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	1848	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	5149	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	7211	N/A	N/A	N/A	N/A	CPS

SSW4 Aluminum	5000	2805	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	303.4	N/A	N/A	N/A	N/A	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Lithology Measurement
Master: 4−May−2024 14:40

LSW1 Iron	400.0	266.9	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	461.7	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	613.6	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	317.3	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	288.3	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1388	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4396	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	6738	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	2633	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	281.1	N/A	N/A	N/A	N/A	CPS

Hostile Litho−Density Sonde Wellsite Calibration − Caliper Calibration
Before: 4−May−2024 13:37

HLDS Caliper Small Ring	12.00	N/A	15.79	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	19.83	N/A	N/A	N/A	IN

Accelerator−Porosity Tool Wellsite Calibration − Detector Background
Master: 16−Apr−2024 15:42 Before: 19−Jun−2024 16:23 After: 19−Jun−2024 20:46

Near Det Bkg Cntrate	30.00	27.09	27.05	26.43	−0.6213	N/A	CPS
Far Det Bkg Cntrate	30.00	27.32	29.02	26.97	−2.048	N/A	CPS
Array−1 Det Bkg Cntrate	30.00	25.86	26.52	27.13	0.6110	N/A	CPS
Array−2 Det Bkg Cntrate	30.00	27.25	27.30	28.45	1.148	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	25.93	28.80	25.58	−3.213	N/A	CPS

Accelerator−Porosity Tool Wellsite Calibration − Calibration Ratios
Master: 16−Apr−2024 15:42

Near/Far Calibration Ratio	0.9250	0.9669	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.074	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	0.9975	N/A	N/A	N/A	N/A	

Accelerator−Porosity Tool Wellsite Calibration − Tank Check
Master: 16−Apr−2024 15:42

Array−1 Standoff Porosity	11.75	11.10	N/A	N/A	N/A	N/A	PU
Array−2 Standoff Porosity	11.75	11.54	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.918	N/A	N/A	N/A	N/A	US
Array−1 SDT Ratio Up/Down	1.000	0.9757	N/A	N/A	N/A	N/A	
Array−2 SDT Ratio Up/Down	1.000	1.007	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.49	N/A	N/A	N/A	N/A	CU

Accelerator−Porosity Tool Wellsite Calibration − CCR7 signal boxes
Master: 16−Apr−2024 15:42

Near Detector Plateau Setting	1650	1703	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2034	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1936	N/A	N/A	N/A	N/A	V

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 1 Check
Master: 4−May−2024 12:28 Before: 19−Jun−2024 16:24 After: 19−Jun−2024 20:47

Na 511 Peak Loc	40.00	38.58	38.53	38.62	0.09044	1.000	
Na 511 Peak Res	15.50	16.53	16.37	15.16	−1.212	2.000	%
High Voltage	1150	1191	1176	1181	4.395	N/A	V
Na 1785 Peak Loc	142.6	139.1	139.9	139.5	−0.4530	7.000	
Na 1785 Peak Res	8.500	8.592	8.029	8.766	0.7370	2.000	%
Temperature	15.50	18.98	12.32	12.47	0.1561	N/A	DEGC
Na Count Rate	45.00	36.48	34.43	35.23	0.8004	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Detector 2 Check
Master: 4−May−2024 12:28 Before: 19−Jun−2024 16:24 After: 19−Jun−2024 20:47

Na 511 Peak Loc	40.00	39.52	39.53	39.58	0.05072	1.000	
Na 511 Peak Res	15.50	16.42	16.02	16.16	0.1431	2.000	%
High Voltage	1150	1076	1065	1068	3.452	N/A	V
Na 1785 Peak Loc	142.6	142.0	142.7	143.1	0.4100	7.000	
Na 1785 Peak Res	8.500	7.800	8.790	8.439	−0.3512	2.000	%
Temperature	15.50	18.29	11.60	12.48	0.8844	N/A	DEGC
Na Count Rate	45.00	36.51	34.44	35.42	0.9776	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration − Ratio Of Detector 1 To Detector 2
Master: 4−May−2024 12:28 Before: 19−Jun−2024 16:24 After: 19−Jun−2024 20:47

Coincidence Count Rate Ratio	1.000	0.9963	0.9970	0.9914	−0.005546	0.05000	

Enhanced DTS Cartridge Wellsite Calibration − EDTC Accelerometer Calibration
Before: 19−Jun−2024 16:20

EDTC Z−Axis Acceleration	9.810	N/A	9.824	N/A	N/A	N/A	M/S2

Enhanced DTS Cartridge Wellsite Calibration − Detector Calibration
Before: 19−Jun−2024 16:25 After: 19−Jun−2024 20:51

Gamma Ray (Jig − Bkg)	162.1	N/A	162.1	213.5	51.43	14.73	GAPI

Gamma Ray (Calibrated)	165.0	N/A	165.0	217.4	52.37	15.00	GAPI

Accelerator−Porosity Tool − Detector Plateau Settings :

Near Detector Plateau Setting 1703 V
Far Detector Plateau Setting 2034 V
Array Detector Plateau Setting 1936 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
0	Before		−318.6	−322.7	−280.7	−379.7
	After		−318.7			
1	Before		−330.5	−322.7	−280.7	−379.7
	After		−331.2			
2	Before		−337.4	−322.7	−280.7	−379.7
	After		−337.7			
3	Before		−327.9	−322.7	−280.7	−379.7
	After		−328.6			
4	Before		−319.3	−322.7	−280.7	−379.7
	After		−319.5			
5	Before		−320.9	−322.7	−280.7	−379.7
	After		−321.1			
6	Before		319.7	322.7	379.7	280.7
	After		320.5			
7	Before		−322.7	−322.7	−280.7	−379.7
	After		−322.7			
		(Minimum) (Nominal) (Maximum)				

Before: 19−Jun−2024 16:20
After: 19−Jun−2024 20:43

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M12

Idx	Phase	HRLT M1−M2 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1736	1781	2095	1549
	After		1738			
1	Before		1804	1781	2095	1549
	After		1808			
2	Before		1837	1781	2095	1549
	After		1839			
3	Before		1785	1781	2095	1549

	After		1790			
4	Before		1739	1781	2095	1549
	After		1741			
5	Before		1750	1781	2095	1549
	After		1751			
6	Before		−1752	−1781	−1549	−2095
	After		−1757			
7	Before		1781	1781	2095	1549
	After		1781			
		(Minimum) (Nominal) (Maximum)				

Before: 19−Jun−2024 16:20

After: 19−Jun−2024 20:43

High Resolution Laterolog Array − B Wellsite Calibration

HRLT M23

Idx	Phase	HRLT M2−M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1730	1781	2095	1549
	After		1730			
1	Before		1807	1781	2095	1549
	After		1810			
2	Before		1842	1781	2095	1549
	After		1843			
3	Before		1794	1781	2095	1549
	After		1798			
4	Before		1742	1781	2095	1549
	After		1744			
5	Before		1754	1781	2095	1549
	After		1755			
6	Before		−1744	−1781	−1549	−2095
	After		−1748			
7	Before		1781	1781	2095	1549
	After		1781			
		(Minimum) (Nominal) (Maximum)				

Before: 19−Jun−2024 16:20

After: 19−Jun−2024 20:43

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V34

Idx	Phase	HRLT A3−A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68510	70000	82360	60900
	After		68580			
1	Before		71440	70000	82360	60900
	After		71610			
2	Before		73090	70000	82360	60900
	After		73200			
3	Before		71440	70000	82360	60900
	After		71640			
4	Before		69340	70000	82360	60900

4	After	69440	70000	82360	60900
5	Before	69830	70000	82360	60900
	After	69900			
6	Before	−67960	−70000	−60900	−82360
	After	−68160			
7	Before	70000	70000	82360	60900
	After	70000			
	(Minimum) (Nominal) (Maximum)				

Before: 19−Jun−2024 16:20
After: 19−Jun−2024 20:43

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V45

Idx	Phase	HRLT A4−A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68590	70000	82360	60900
	After		68670			
1	Before		71660	70000	82360	60900
	After		71830			
2	Before		73290	70000	82360	60900
	After		73390			
3	Before		71590	70000	82360	60900
	After		71790			
4	Before		69450	70000	82360	60900
	After		69550			
5	Before		69910	70000	82360	60900
	After		70000			
6	Before		−68170	−70000	−60900	−82360
	After		−68370			
7	Before		70000	70000	82360	60900
	After		70000			
	(Minimum) (Nominal) (Maximum)					

Before: 19−Jun−2024 16:20
After: 19−Jun−2024 20:43

High Resolution Laterolog Array − B Wellsite Calibration

HRLT V56

Idx	Phase	HRLT A5−A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68450	70000	82360	60900
	After		68530			
1	Before		71500	70000	82360	60900
	After		71660			
2	Before		73130	70000	82360	60900
	After		73250			
3	Before		71440	70000	82360	60900
	After		71650			
4	Before		69320	70000	82360	60900
	After		69420			
5	Before		69800			

5	After	69870	70000	82360	60900
6	Before	−68010	−70000	−60900	−82360
	After	−68210			
7	Before	70000	70000	82360	60900
	After	70000			
	(Minimum) (Nominal) (Maximum)				

Before: 19−Jun−2024 16:20
After: 19−Jun−2024 20:43

High Resolution Laterolog Array − B Wellsite Calibration

HRLT_VTP

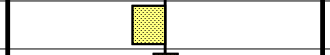
Idx	Phase	HRLT Torpedo−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−68000	−70000	−60900	−82360
	After		−68070			
1	Before		−71310	−70000	−60900	−82360
	After		−71480			
2	Before		−72980	−70000	−60900	−82360
	After		−73080			
3	Before		−71380	−70000	−60900	−82360
	After		−71560			
4	Before		−69290	−70000	−60900	−82360
	After		−69380			
5	Before		−69760	−70000	−60900	−82360
	After		−69840			
6	Before		67780	70000	82360	60900
	After		67970			
7	Before		−70000	−70000	−60900	−82360
	After		−70000			
	(Minimum) (Nominal) (Maximum)					

Before: 19−Jun−2024 16:20
After: 19−Jun−2024 20:43

High Resolution Laterolog Array − B Wellsite Calibration

HRLT_VBD

Idx	Phase	HRLT Bridle#9−M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−68040	−70000	−60900	−82360
	After		−68100			
1	Before		−71400	−70000	−60900	−82360
	After		−71570			
2	Before		−73070	−70000	−60900	−82360
	After		−73170			
3	Before		−71450	−70000	−60900	−82360
	After		−71650			
4	Before		−69340	−70000	−60900	−82360
	After		−69430			
5	Before		−69800	−70000	−60900	−82360
	After		−69870			
6	Before		67870			

6	After		68060	70000	82360	60900
7	Before		−70000	−70000	−60900	−82360
	After		−70000			
		(Minimum) (Nominal) (Maximum)				

Before: 19−Jun−2024 16:20

After: 19−Jun−2024 20:43

High Resolution Laterolog Array − B Wellsite Calibration

HRLT ISO

Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		283.8	284.0	334.1	247.0
	After		284.2			
1	Before		281.1	281.1	330.7	244.4
	After		281.1			
2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
		(Minimum) (Nominal) (Maximum)				

Before: 19−Jun−2024 16:20

After: 19−Jun−2024 20:43

High Resolution Laterolog Array − B Wellsite Calibration

HRLT MV

Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		−320.1	−322.7	−280.7	−379.7
	After		−320.0			
1	Before		−324.2	−322.7	−280.7	−379.7
	After		−324.6			
2	Before		−330.1	−322.7	−280.7	−379.7
	After		−330.2			
3	Before		−319.3	−322.7	−280.7	−379.7
	After		−319.8			
4	Before		−308.4	−322.7	−280.7	−379.7
	After		−308.5			
5	Before		−325.1	−322.7	−280.7	−379.7
	After		−325.1			
6	Before		325.8	322.7	379.7	280.7
	After		326.5			
7	Before		−322.7			

7	After	−322.7	−322.7	−280.7	−379.7
	(Minimum) (Nominal) (Maximum)				

Before: 19−Jun−2024 16:20

After: 19−Jun−2024 20:43

Hostile Litho−Density Sonde / Equipment Identification

Primary Equipment:		
Gamma Source Radioactive	GSR − ZA	2945
Hostile Litho Density Sonde	HLDS − D	77
Hostile Litho Density High Voltage	HLDV − D	67
Auxiliary Equipment:		
Hostile Litho Density High Voltage Housi	HEH − H	67
Hostile Litho Density Pad	HLDP − C	83

Hostile Litho−Density Sonde Wellsite Calibration

Background Measurement

Phase	SS Cs Resolution Bkg %	Value
Master		7.737
Before		7.664
After		7.762
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LS Cs Resolution Bkg %	Value
Master		8.001
Before		8.086
After		8.018
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	

Phase	LSW1 Background CPS	Value
Master		66.74
Before		66.50
After		67.04
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	LSW2 Background CPS	Value
Master		60.19
Before		60.90
After		59.81
	50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)	

Phase	LSW3 Background CPS	Value
Master		137.3
Before		136.9
After		136.1
	110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)	

Phase	LSW4 Background CPS	Value
Master		169.8
Before		168.9
After		170.2
	140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)	

Phase	LSW5 Background CPS	Value
Master		397.3
Before		394.2
After		395.2
	330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)	

Phase	SSW1 Background CPS	Value
Master		65.54
Before		64.78
After		64.49
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	

Phase	SSW2 Background CPS	Value
Master		110.7
Before		111.1
After		109.5
	100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)	

Phase	SSW3 Background CPS	Value
Master		310.2
Before		307.2
After		310.1
	280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)	

Phase	SSW4 Background CPS	Value
Master		166.6
Before		164.5
After		166.0
	150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)	

Phase	SSW5 Background CPS	Value
Master		119.6
Before		118.1
After		118.9
	110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)	

Master: 4−May−2024 14:16 Before: 19−Jun−2024 16:23 After: 19−Jun−2024 20:46

Litho−Density Spectroscopy Cartridge − B / Equipment Identification

Primary Equipment:		
LDSC Cartridge	LDSC − B	326
Auxiliary Equipment:		
LDSC Housing	LDSH − A	303

Accelerator−Porosity Tool / Equipment Identification

Primary Equipment:		
Accelerator−Porosity Sonde	APS − C	212
APS Minitron	MNTR − F	51305
Auxiliary Equipment:		

Accelerator−Porosity Housing	APH − AC	121
APS Calibration Water Tank	SFT − 178	1
APS Aluminum Calibrator Sleeve	SFT − 281	1

Accelerator−Porosity Tool Wellsite Calibration

Detector Background

Phase	Near Det Bkg Cntrate CPS	Value
Master		27.09
Before		27.05
After		26.43

1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Far Det Bkg Cntrate CPS	Value
Master		27.32
Before		29.02
After		26.97

1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Array−1 Det Bkg Cntrate CPS	Value
Master		25.86
Before		26.52
After		27.13

1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Array−2 Det Bkg Cntrate CPS	Value
Master		27.25
Before		27.30
After		28.45

1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Phase	Array Therm Det Bkg Cntrate CPS	Value
Master		25.93
Before		28.80
After		25.58

1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)

Master: 16−Apr−2024 15:42 Before: 19−Jun−2024 16:23 After: 19−Jun−2024 20:46

Accelerator−Porosity Tool Wellsite Calibration

Calibration Ratios

Phase	Near/Far Calibration Ratio	Value
Master		0.9669

0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)

Phase	Near/Array Calibration Ratio	Value
Master		1.074

0.9000 (Minimum) 1.030 (Nominal) 1.170 (Maximum)

Phase	Near/Array Cal Ratio Up/Down	Value
Master		0.9975

0.9700 (Minimum) 1.000 (Nominal) 1.030 (Maximum)

Master: 16−Apr−2024 15:42

Accelerator−Porosity Tool Wellsite Calibration

Tank Check

Phase	Array−1 Standoff Porosity PU	Value
Master		11.10

9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)

Phase	Array−2 Standoff Porosity PU	Value
Master		11.54

9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)

Phase	Average Slowing Down Time US	Value
Master		5.918

5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)

Phase	Array−1 SDT Ratio Up/Down	Value
Master		0.9757

0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)

Phase	Array−2 SDT Ratio Up/Down	Value
Master		1.007

0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)

Phase	Sigma Formation CU	Value
Master		27.49

20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)

Master: 16−Apr−2024 15:42

Hostile Natural Gamma Ray Cartridge − B / Equipment Identification

Primary Equipment:		
HNGC Cartridge	HNGC − B	300
Auxiliary Equipment:		
HNGC Housing	HNGH − A	115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:		
HNGS Sonde	HNGS − BA	177
Auxiliary Equipment:		
HNGS Sonde Housing	HNSH − BA	174
Gamma Source Radioactive	GSR − U	135

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value
Master		38.58

Phase	Na 511 Peak Res %	Value
Master		16.53

Phase	High Voltage V	Value
Master		1191

Phase	Value
Before	38.53
After	38.62

37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)

Phase	Value
Before	16.37
After	15.16

12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)

Phase	Value
Before	1176
After	1181

900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		139.1
Before		139.9
After		139.5

135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)

Phase	Na 1785 Peak Res %	Value
Master		8.592
Before		8.029
After		8.766

7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		18.98
Before		12.32
After		12.47

−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		36.48
Before		34.43
After		35.23

10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)

Master: 4−May−2024 12:28 Before: 19−Jun−2024 16:24 After: 19−Jun−2024 20:47

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 2 Check

Phase	Na 511 Peak Loc	Value
Master		39.52
Before		39.53
After		39.58

37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)

Phase	Na 511 Peak Res %	Value
Master		16.42
Before		16.02
After		16.16

12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)

Phase	High Voltage V	Value
Master		1076
Before		1065
After		1068

900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)

Phase	Na 1785 Peak Loc	Value
Master		142.0
Before		**142.7**
After		143.1

135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)

Phase	Na 1785 Peak Res %	Value
Master		7.800
Before		**8.790**
After		8.439

7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)

Phase	Temperature DEGC	Value
Master		18.29
Before		**11.60**
After		12.48

−28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)

Phase	Na Count Rate CPS	Value
Master		36.51
Before		34.44
After		35.42

10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)

Master: 4−May−2024 12:28 Before: 19−Jun−2024 16:24 After: 19−Jun−2024 20:47

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9963
Before		0.9970
After		0.9914

0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)

Master: 4−May−2024 12:28
Before: 19−Jun−2024 16:24
After: 19−Jun−2024 20:47

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector	EDTG − A/B	77693
Enhanced DTS Cartridge	EDTC − B	8529

Auxiliary Equipment:

EDTC Housing	EDTH − B	8528

Enhanced DTS Cartridge Wellsite Calibration

EDTC Accelerometer Calibration

Phase	EDTC Z−Axis Acceleration M/S2	Value
Before		9.824

9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)

Before: 19−Jun−2024 16:20

Enhanced DTS Cartridge Wellsite Calibration

Detector Calibration

Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig − Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value
Before		14.49	Before		162.1	Before		165.0
After		16.49	After	EXCEEDS LIMIT	213.5	After	EXCEEDS LIMIT	217.4
0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			147.3 (Minimum) 162.1 (Nominal) 176.8 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)		

Before: 19−Jun−2024 16:25 After: 19−Jun−2024 20:51

Company: **International Ocean Discovery Program**

Schlumberger

Well: **Expedition 403, Site U1618C**
Field: **Eastern Fram Strait Paleo Archive**
Rig: **JOIDES Resolution**
Country: **Netherlands**

High Resolution Laterolog (HRLA) / HLDS
Mag. Sus. (MSS) / Accel. Porosity (APS)
Natural Gamma / MSS (HNGS)