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OTHER SERVICES1

OS1: FMS/DSI
 OS2: UBI / APS
 OS3:
 OS4:
 OS5:

OTHER SERVICES2

OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1

Hole drilled with RCB BHA at 9 7/8" BS

Casing Shoe at 3856.8 mbrf

Drill pipe set at 3762.5 mbrf.

REMARKS: RUN NUMBER 2

Depth recorded from drill floor; logs presented as-logged without depth corrections or shifts, as per client instructions.

All logs presented in wireline measured depth below rig floor (MDBRF).

Caliper opened during upward passes; closed inside pipe and while logging down.

Hole size corrections made using caliper measurements for upward passes bit size

used for downlog corrections.

AHC used from TD then switched off to facilitate pipe entry.

Caliper closed prior to shutting off compensator and entering pipe or casing.

Caliper offset adjusted to read nominal casing ID of 10.05in. inside casing; OH caliper corrected using same offset.

RUN 1

SERVICE ORDER #: 19C0-187
 PROGRAM VERSION:
 FLUID LEVEL:

RUN 2

SERVICE ORDER #:
 PROGRAM VERSION:
 FLUID LEVEL:

LOGGED INTERVAL

START

STOP

LOGGED INTERVAL

START

STOP

EQUIPMENT DESCRIPTION

RUN 1

RUN 2

SURFACE EQUIPMENT


SFT-281 1
 SFT-178 1
 GSR-U 6098
 WITM (EDTS)-A

DOWNHOLE EQUIPMENT


LEH-QT MDSB_EDTC  38.54 39.86

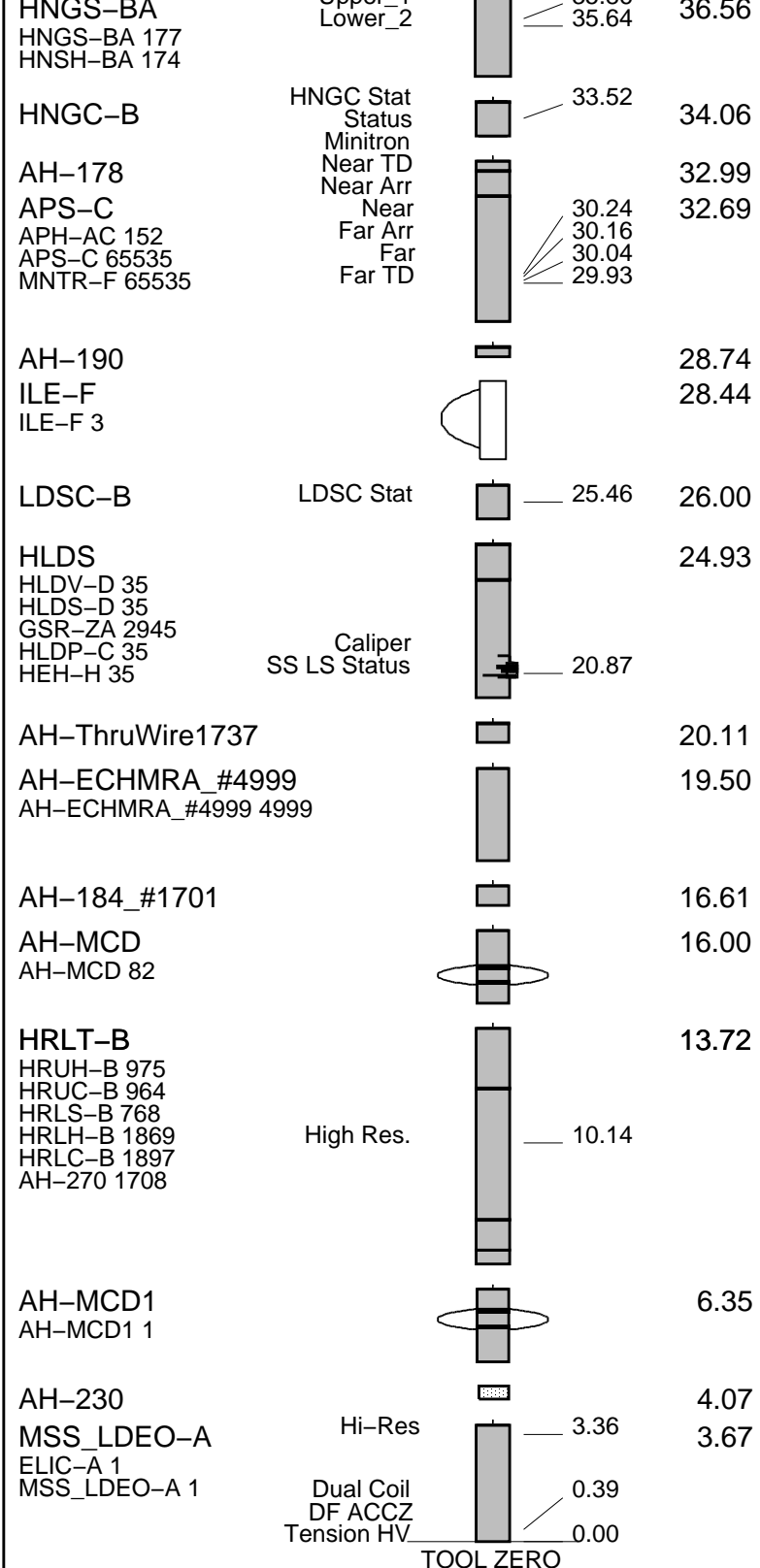
AH-369 Mud Tempe CTEM  37.47 38.97

EDTC-B Gamma Ray EFTB DIAG  36.90 38.54

EDTH-B 8528 TelStatus  36.56

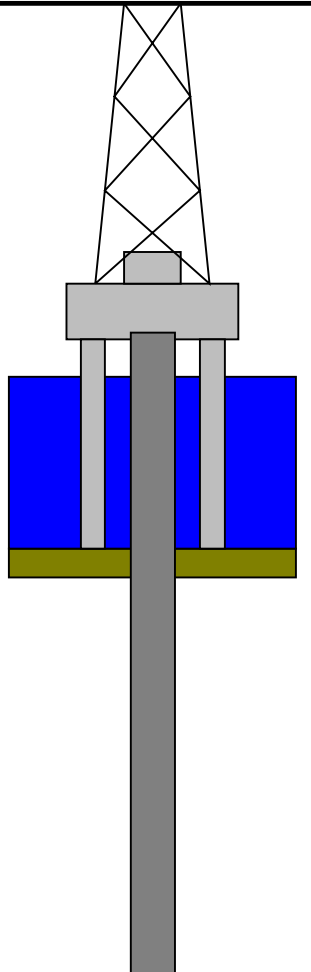
EDTC-B 8529 EDTCB Ele  35.86

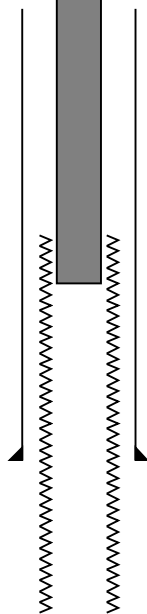
Inner 1  35.86



TOOL ZERO

MAXIMUM STRING DIAMETER 3.75 IN
 MEASUREMENTS RELATIVE TO TOOL ZERO
 ALL LENGTHS IN METERS

Production String	<div style="display: flex; justify-content: space-around;"> (in) (ft) </div> <div style="display: flex; justify-content: space-between; font-size: small;"> OD ID MD </div>	Well Schematic	<div style="display: flex; justify-content: space-around;"> (ft) (in) </div> <div style="display: flex; justify-content: space-between; font-size: small;"> MD OD ID </div>	Casing String
<p>Kelly Bushing Elevation</p> <p>Derrick Floor Elevation</p> <p>Drill Pipe</p> <p>Mean Sea Level</p>	<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"> <div style="margin-bottom: 20px;">11.0</div> <div style="margin-bottom: 20px;">11.0</div> <div style="margin-bottom: 20px;">-11.0</div> <div>0.0</div> </div>			



3734.8 10.750 10.050

Casing String

3856.8 9.875

Borehole Segment

3856.8 10.750 10.050

Casing Shoe

Schlumberger

Downlog

MAXIS Field Log

Company: International Ocean Discovery Program

Well: Expedition 393, Site U1560B

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	28-Jul-2022 03:14	4052.0 M	3641.6 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:11	PRODUCER	28-Jul-2022 03:15	4052.0 M	3641.6 M
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OP System Version: 19C0-187

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

PIP SUMMARY

Time Mark Every 60 S

Time Mark Every 00.5

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

Area1
From HCGR to HSGR

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

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

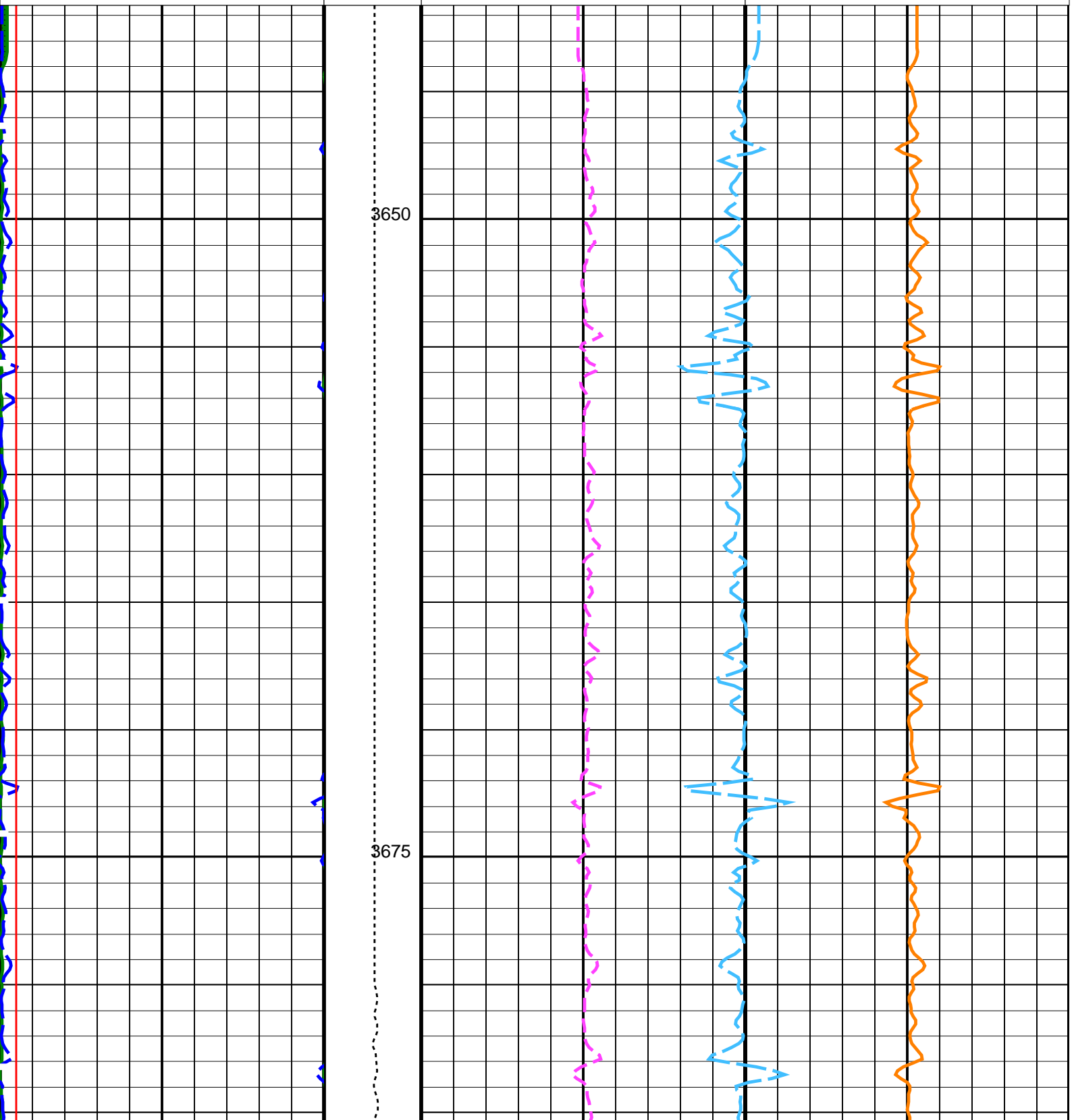
HNGS Uranium (HURA)
(PPM) -5 5

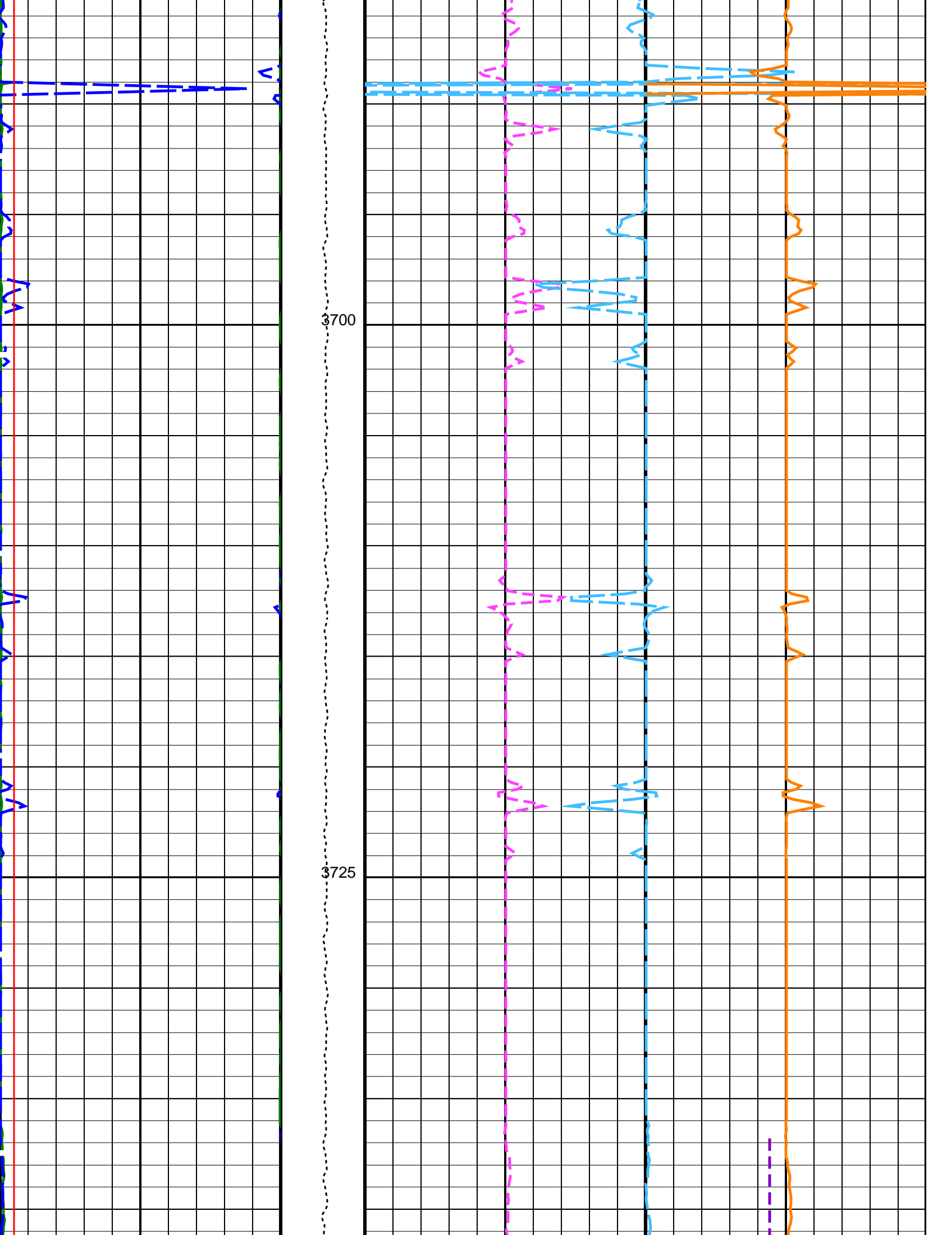
HLDS Caliper (LCAL)
(IN) 0 20

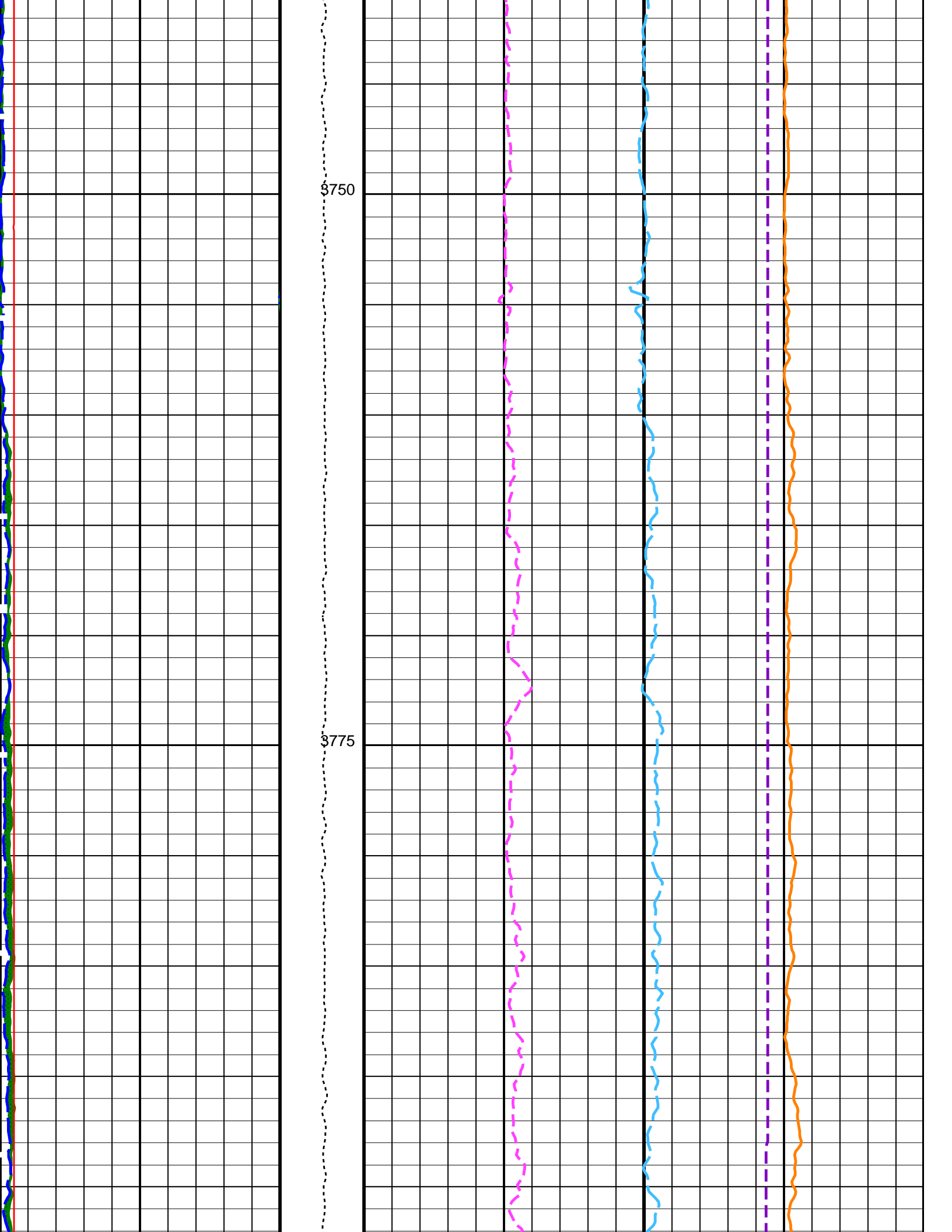
Tension (TENS)
(LBF) 10000 0

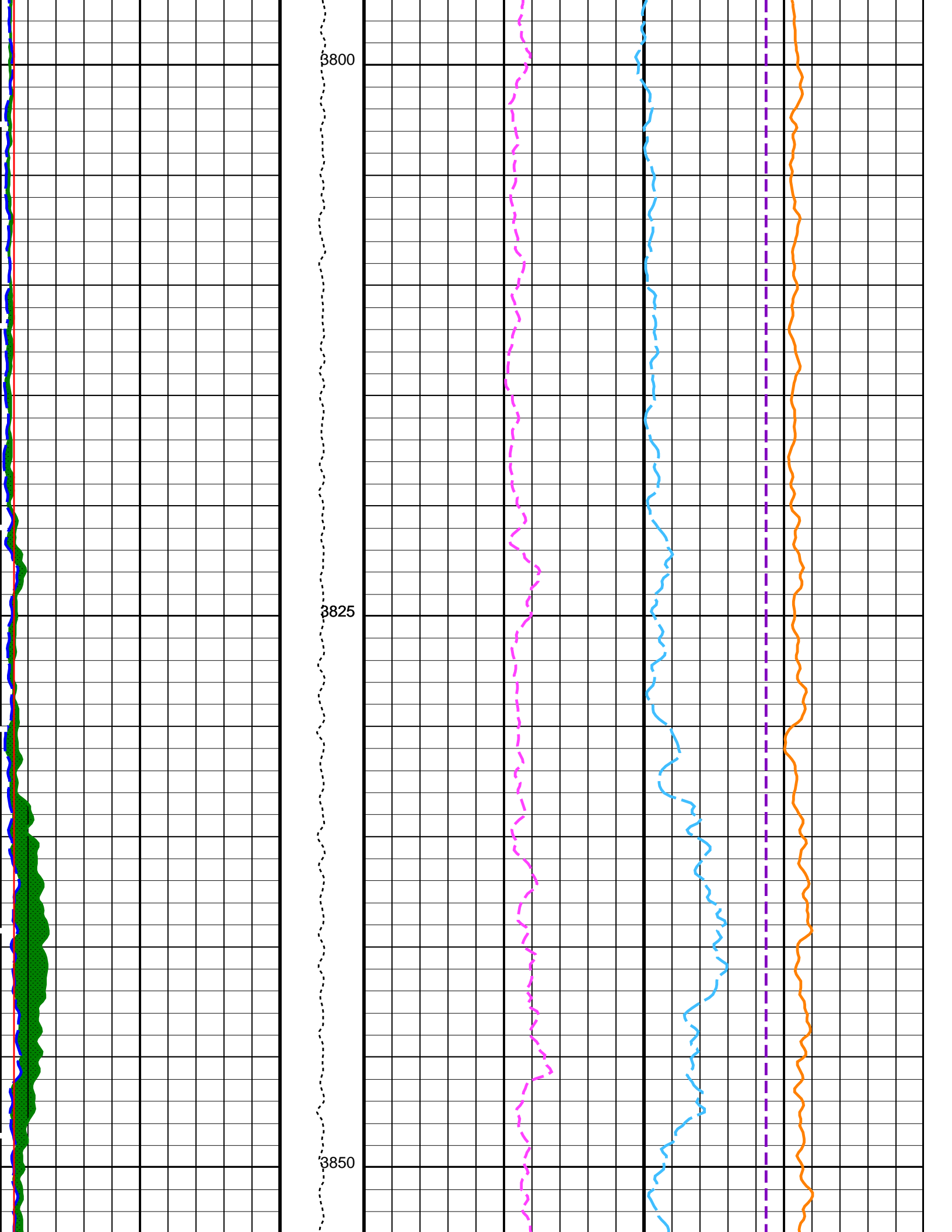
HNGS Thorium (HTHO)
(PPM) -5 5

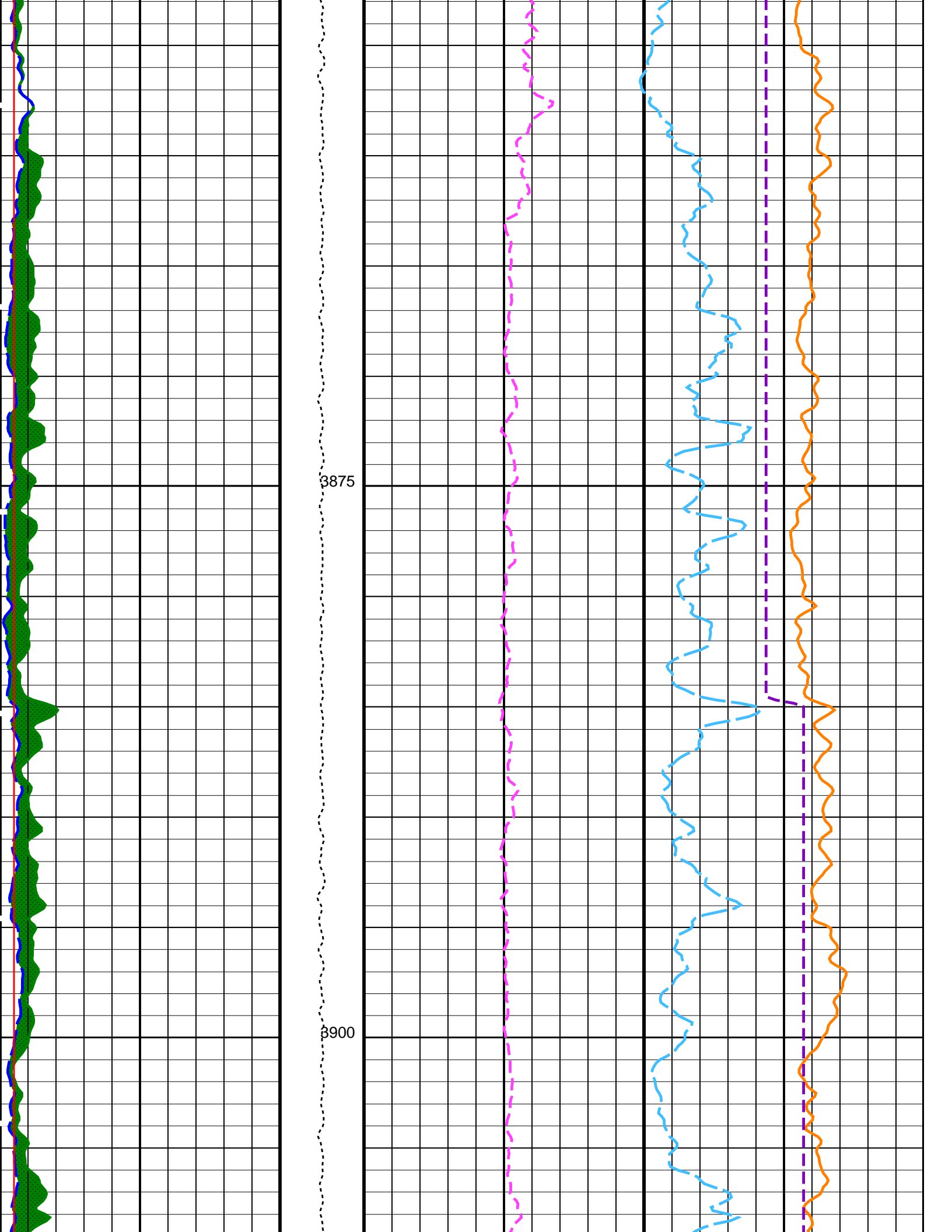
HNGS Potassium (HFK)
(V/V) -0.01 0.01

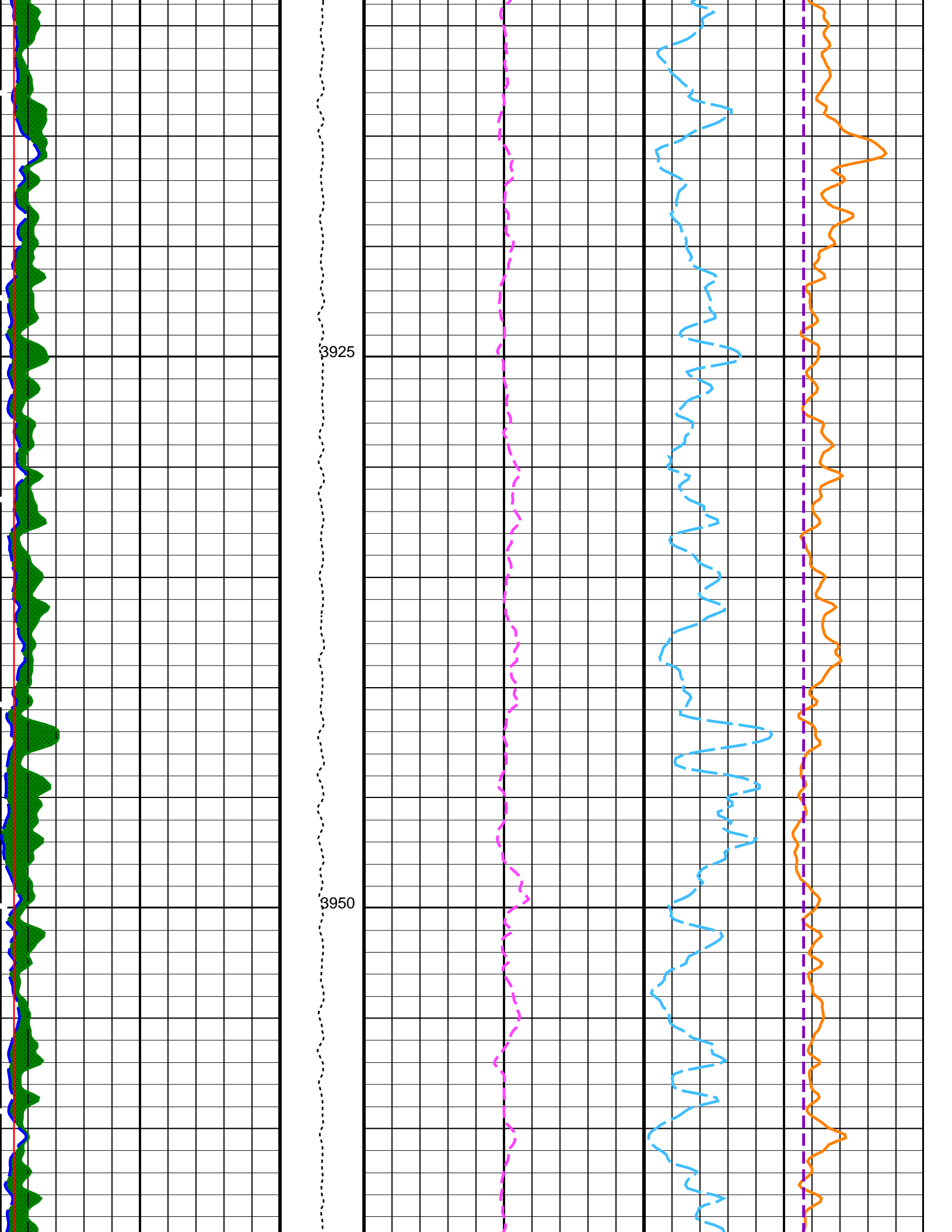


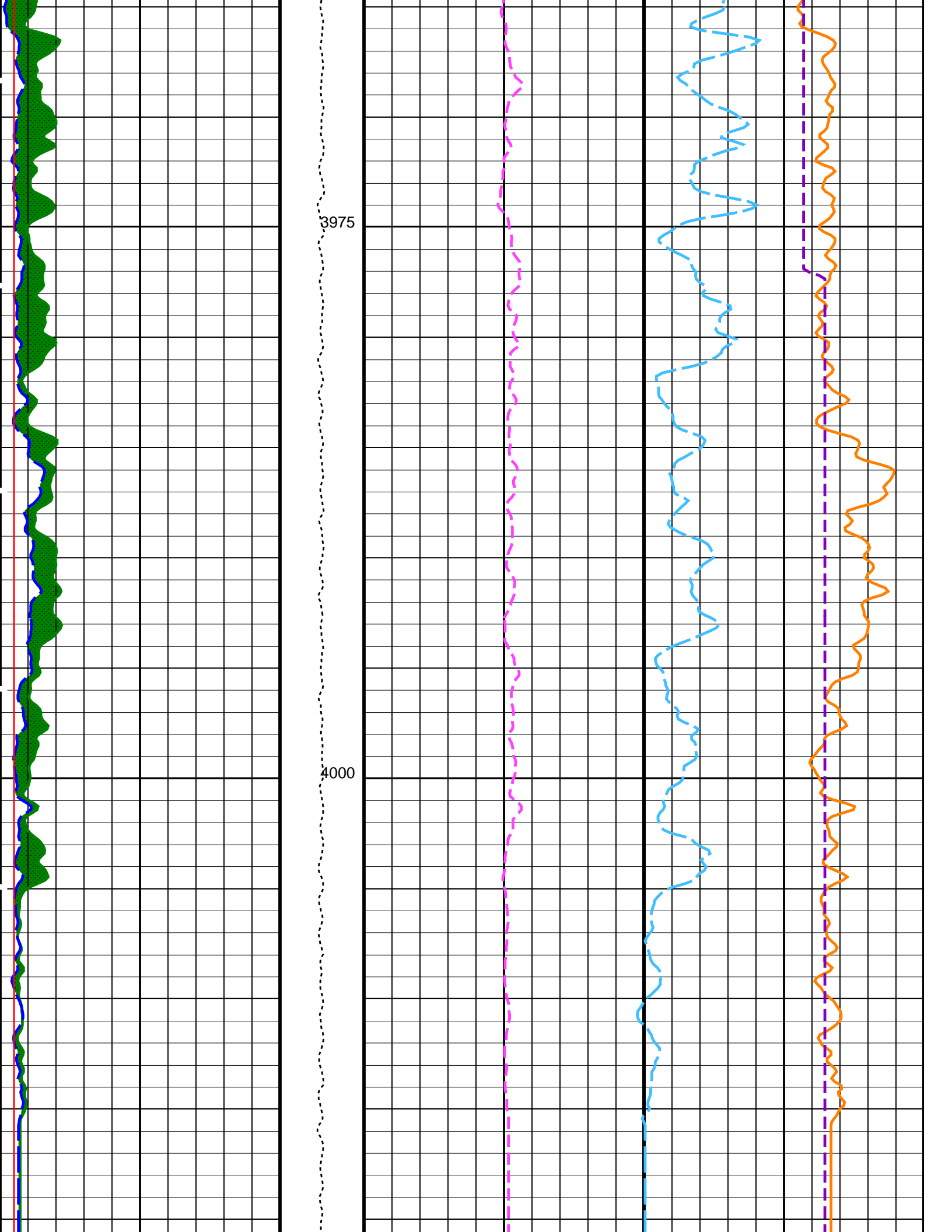


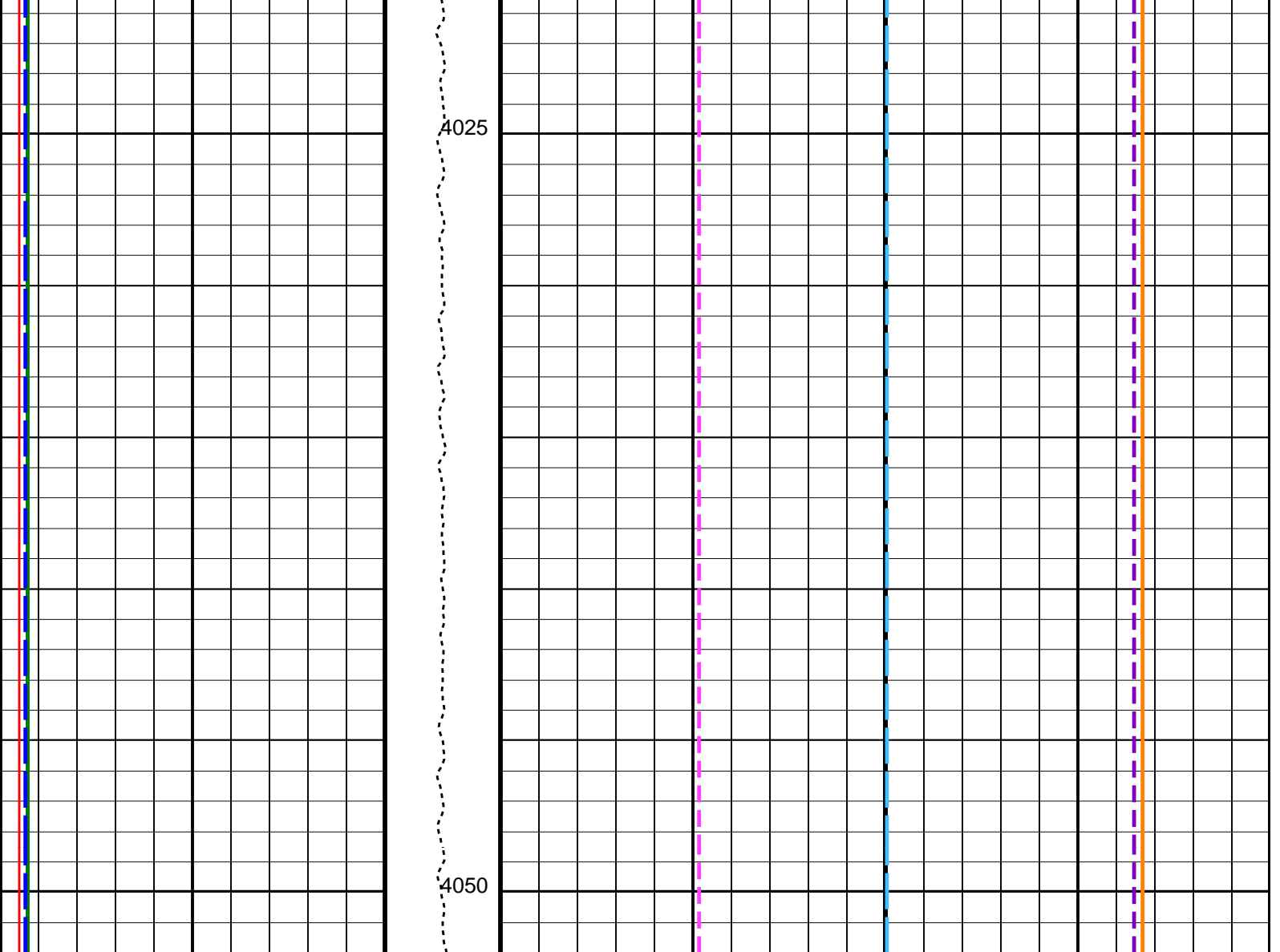












HLDS Caliper (LCAL) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	HNGS Thorium (HTHO) (PPM) -5 5	HNGS Potassium (HFK) (V/V) -0.01 0.01
HNGS Computed Gamma Ray (HCGR) (GAPI) 0 100	HNGS Uranium (HURA) (PPM) -5 5		HNGS Borehole Potassium (HBHK) (V/V) -0.01 0.01
Area1 From HCGR to HSGR			
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 100			

PIP SUMMARY

Time Mark Every 60 S

Parameters

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

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	0.0242776	
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	0.828271	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.789142	
	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	1.03	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 03:15

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	28-Jul-2022 03:14	4052.0 M	3641.6 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:11	PRODUCER	28-Jul-2022 03:15	
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Company: International Ocean Discovery Program Well: Expedition 393, Site U1560B

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	28-Jul-2022 03:14	4052.0 M	3641.6 M
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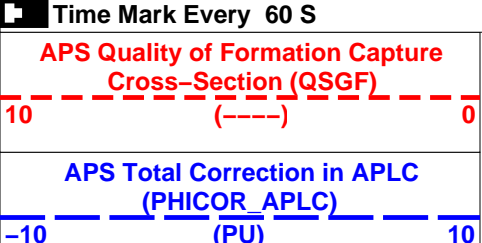
Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:11	PRODUCER	28-Jul-2022 03:15	4052.0 M	3641.6 M
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OP System Version: 19C0-187

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

PIP SUMMARY

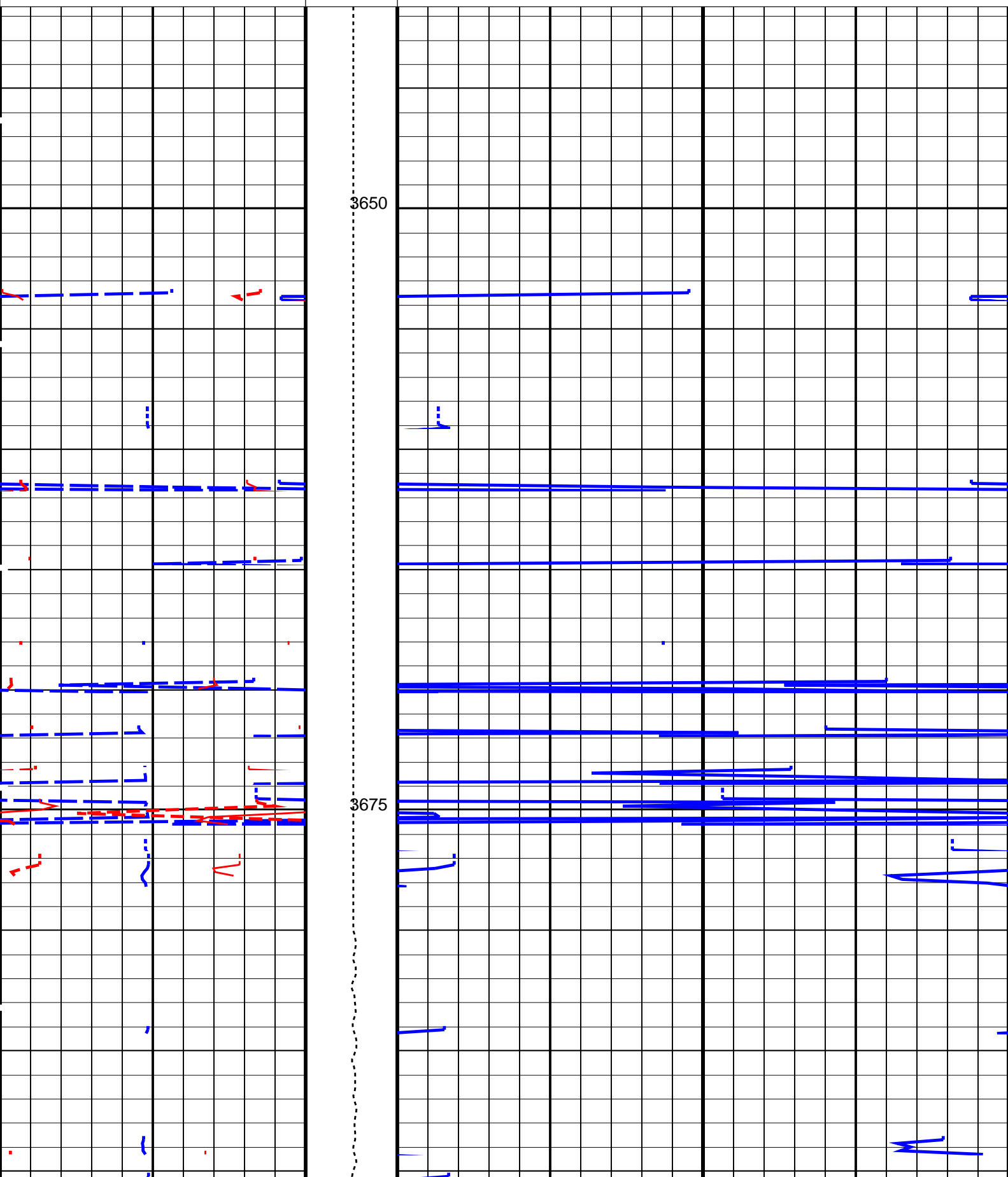


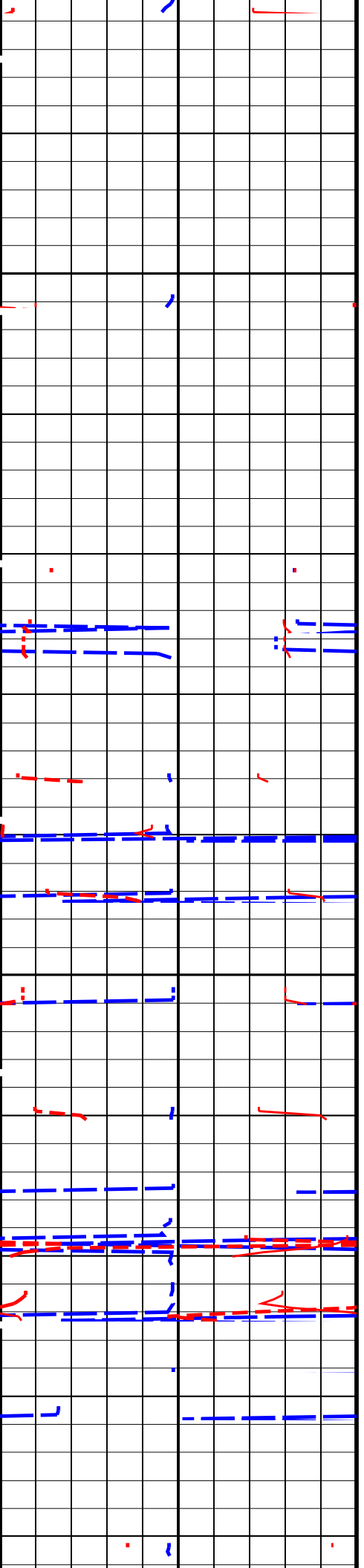
APS Formation Capture Cross-Section
(SIGF)
(CU)

APS Porosity Quality (QSDP)
(----)

Tension
(TENS)
(LBF)

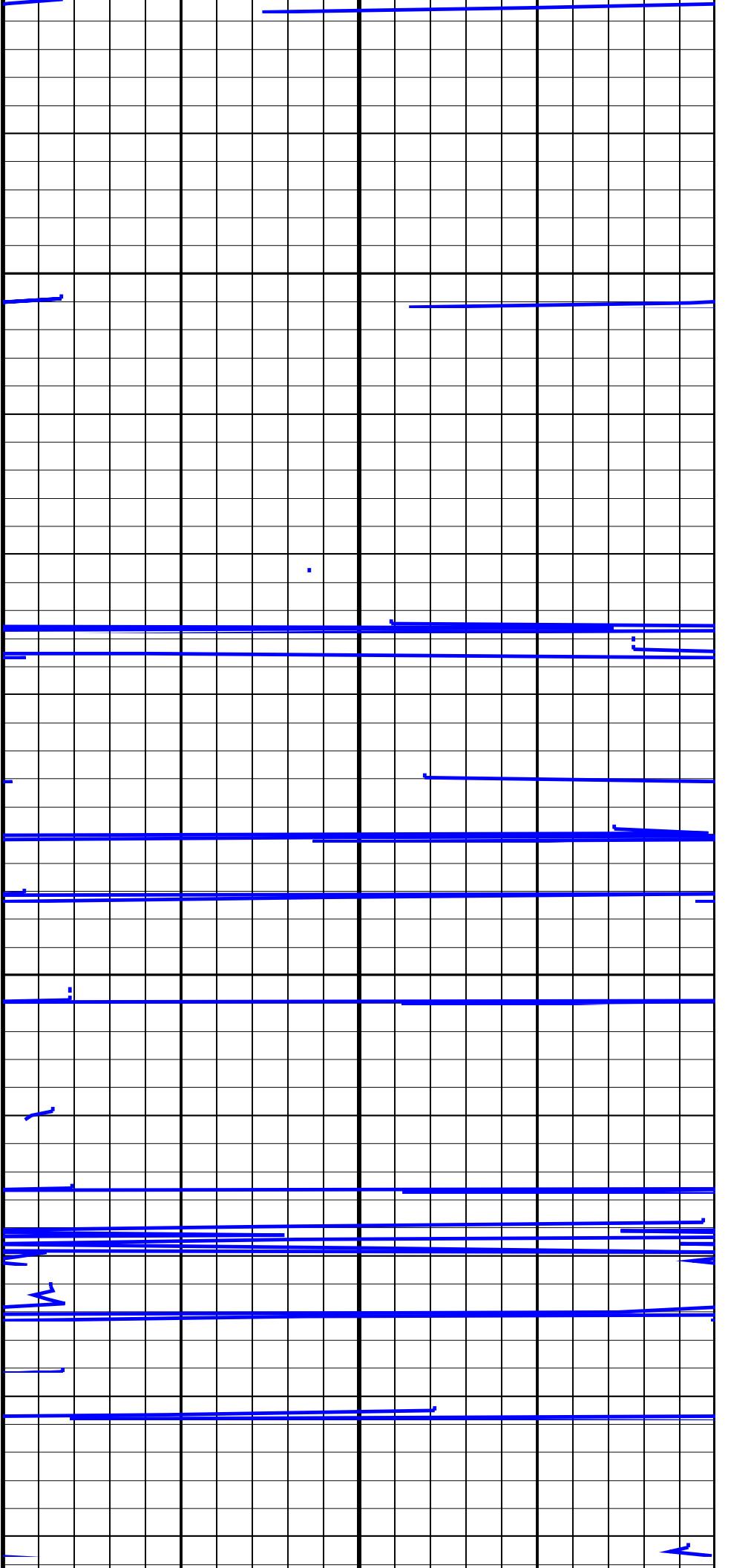
APS Near/Array Corrected Limestone Porosity (APLC)
(PU)

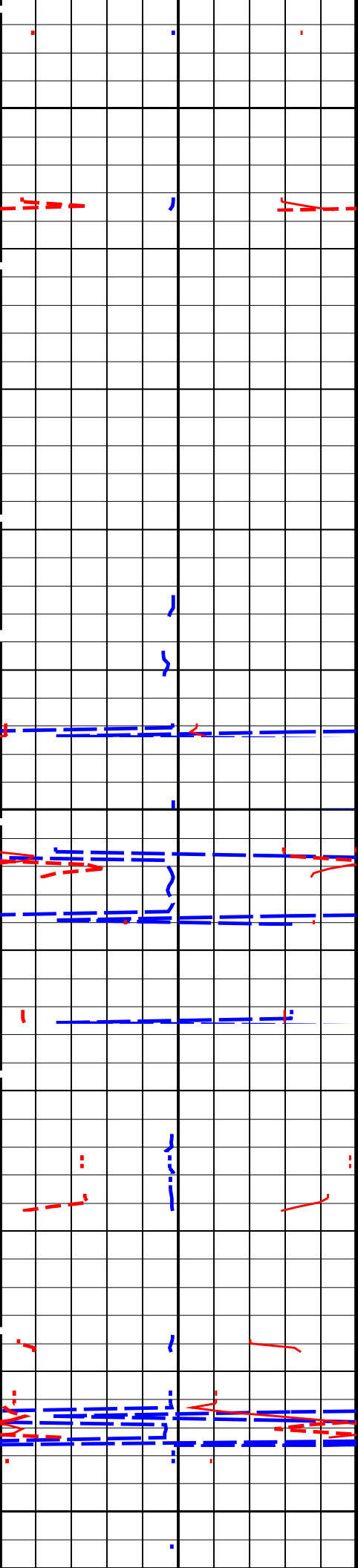




3700

3725

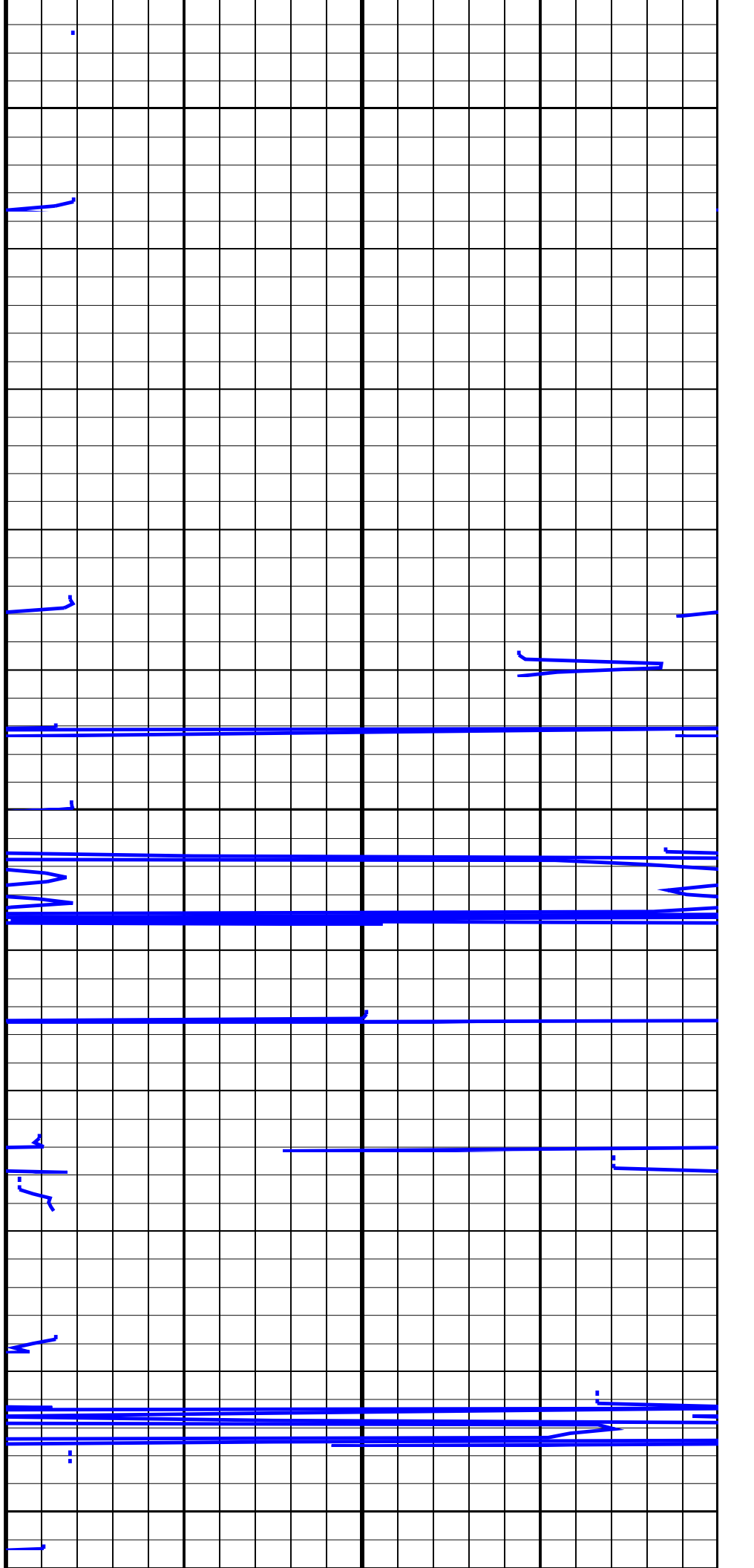


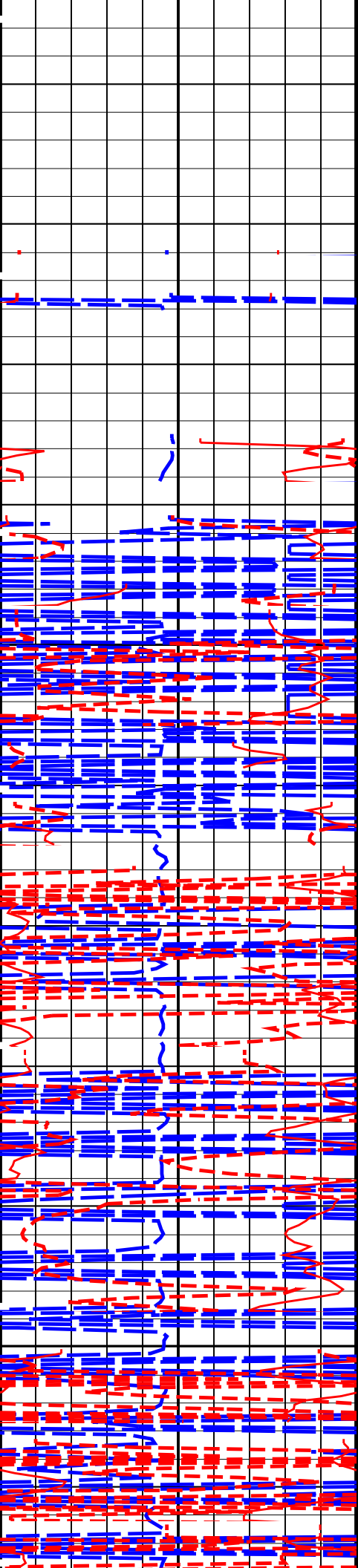


3750

3775

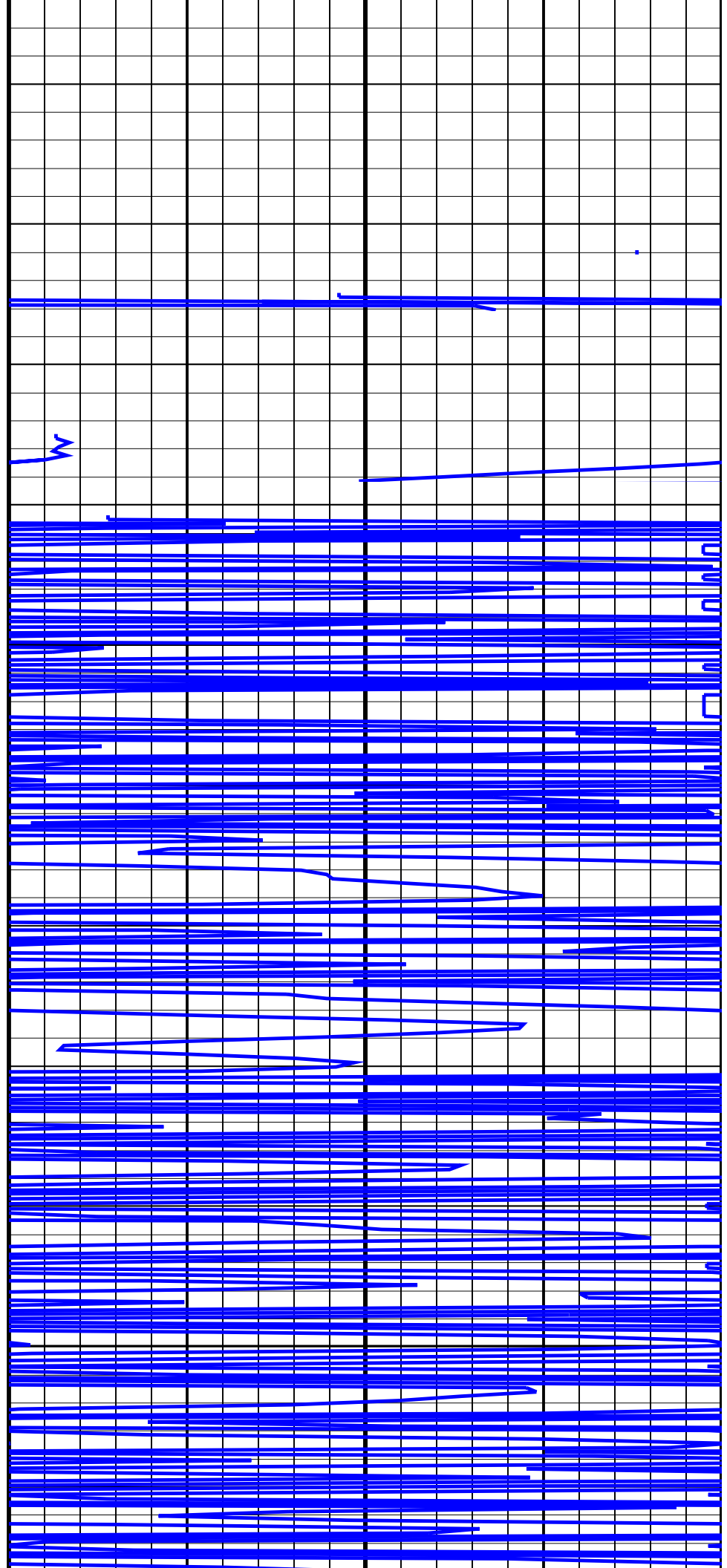
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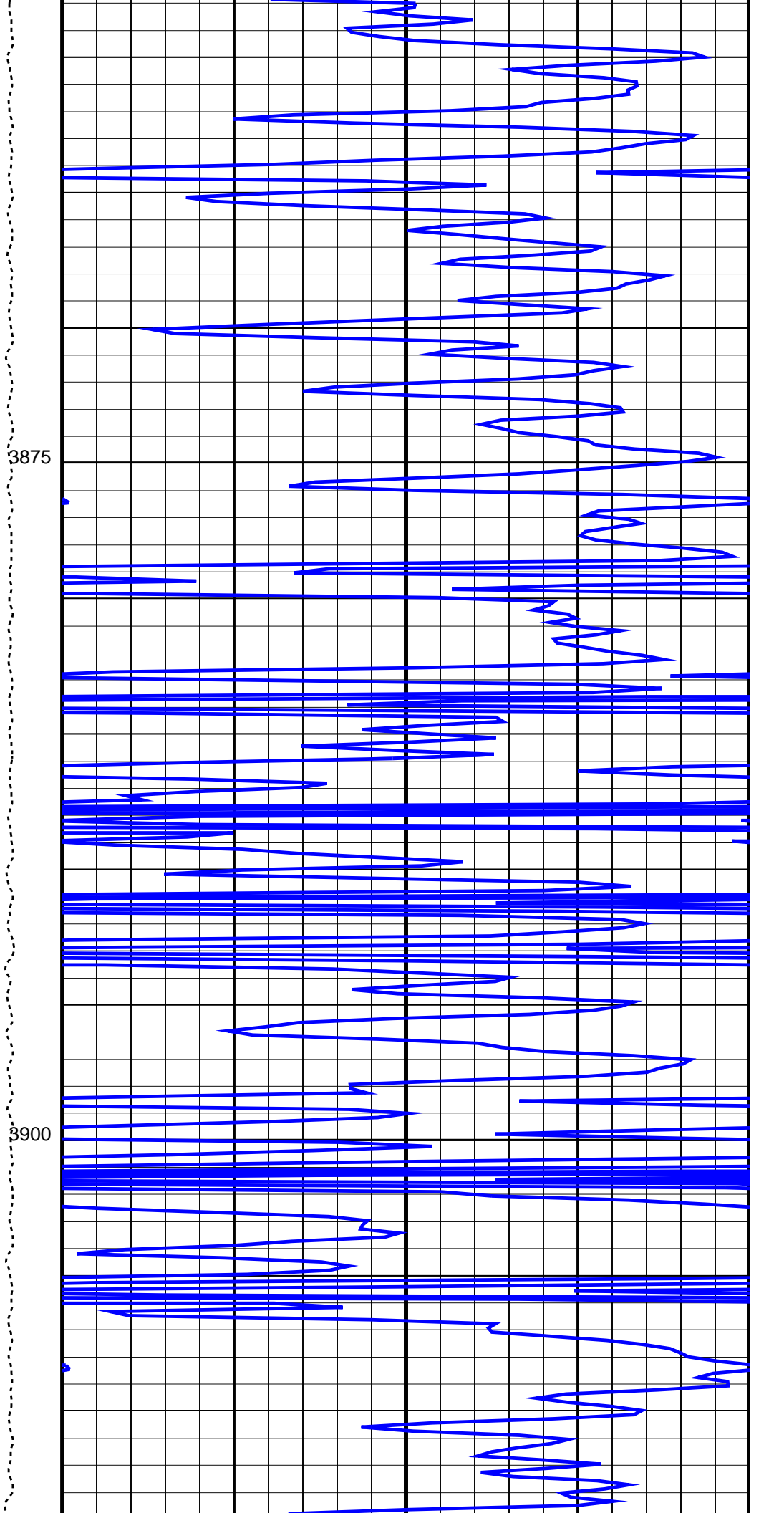
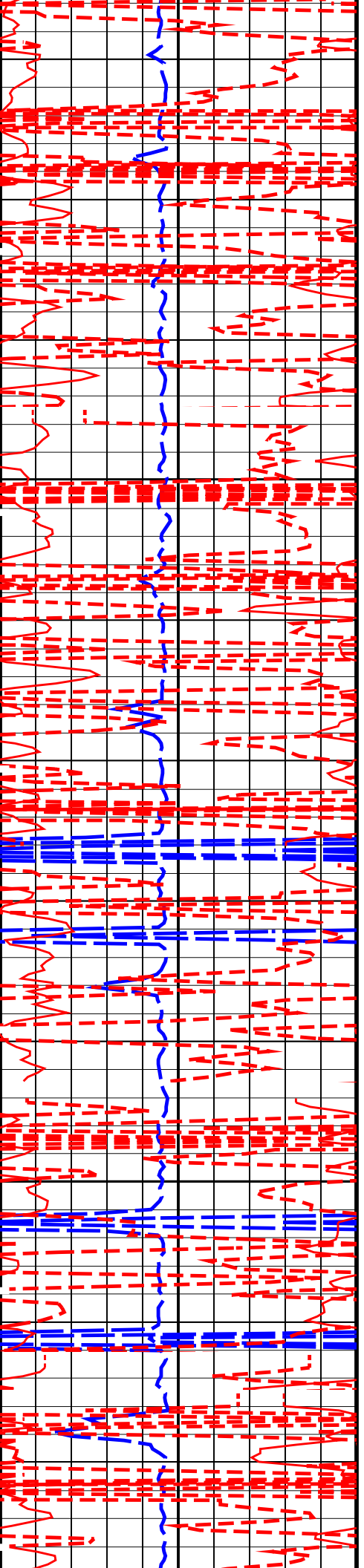




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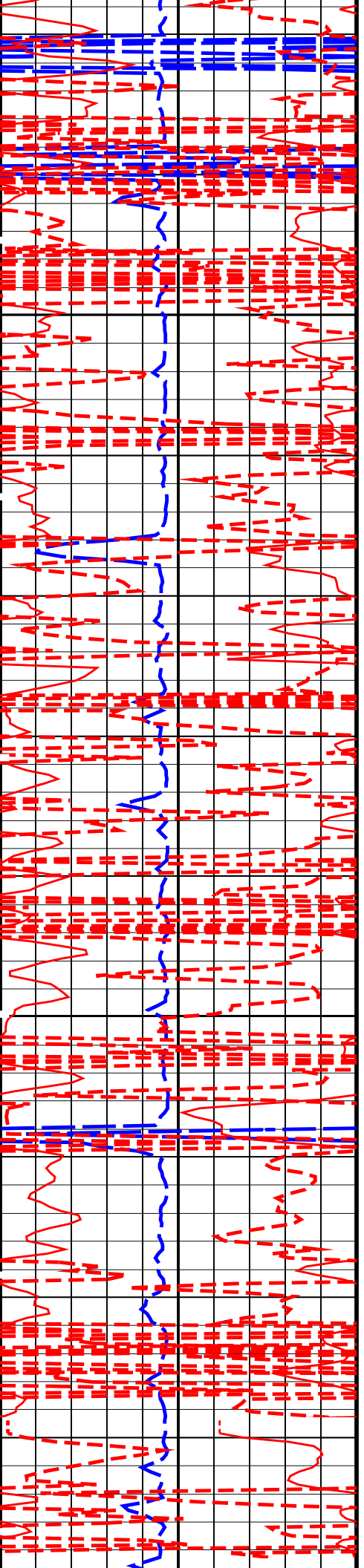
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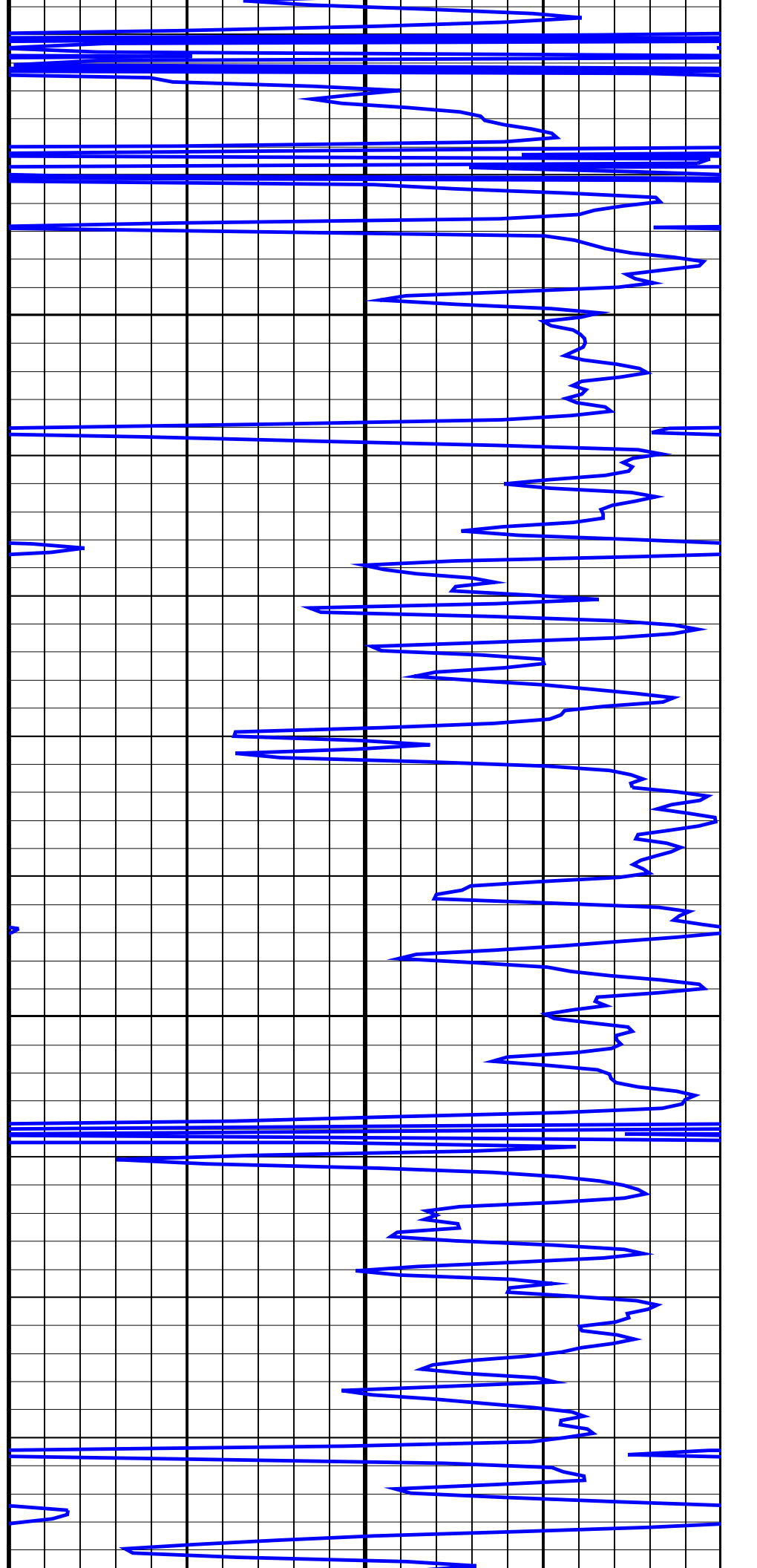
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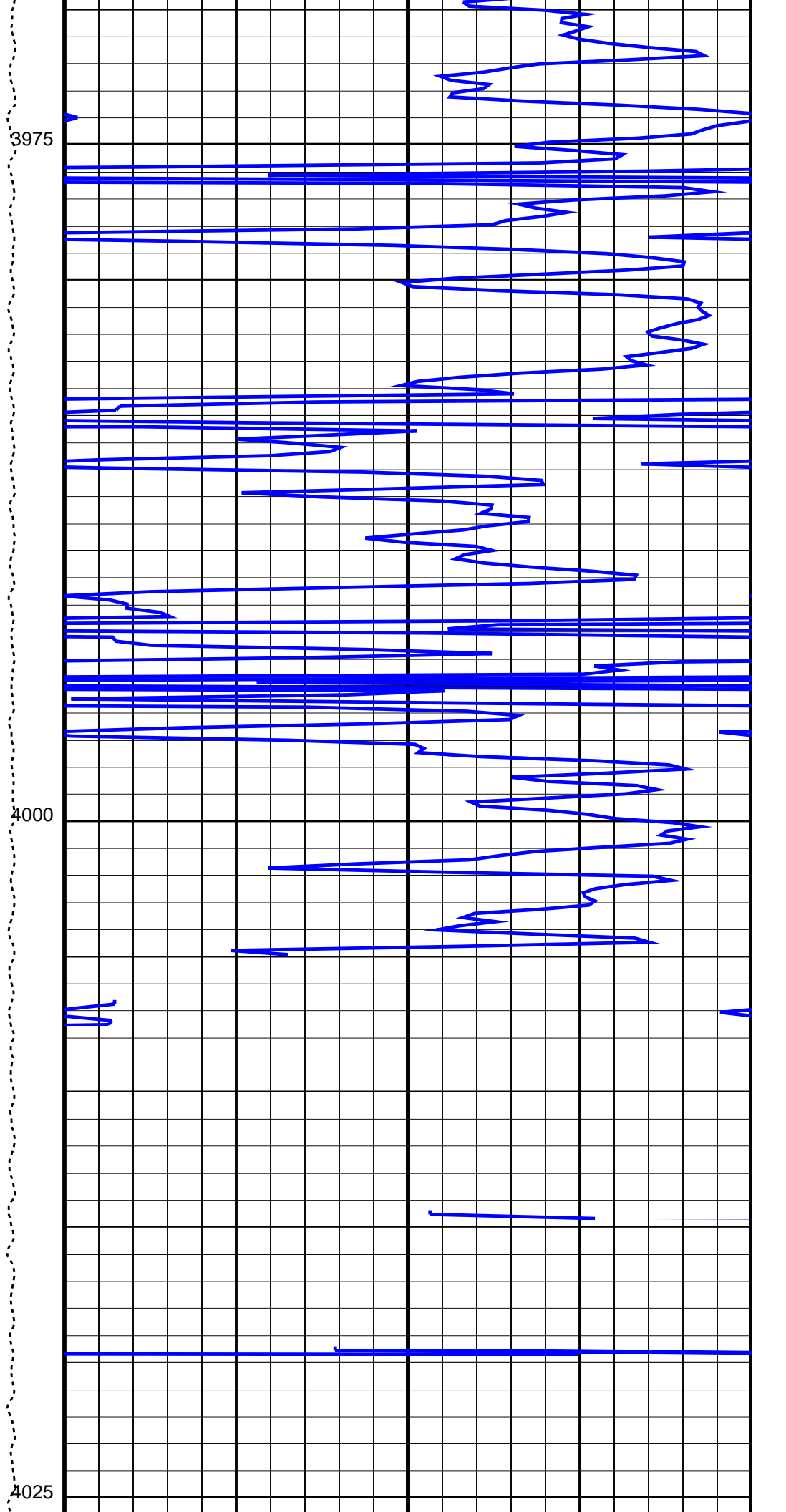
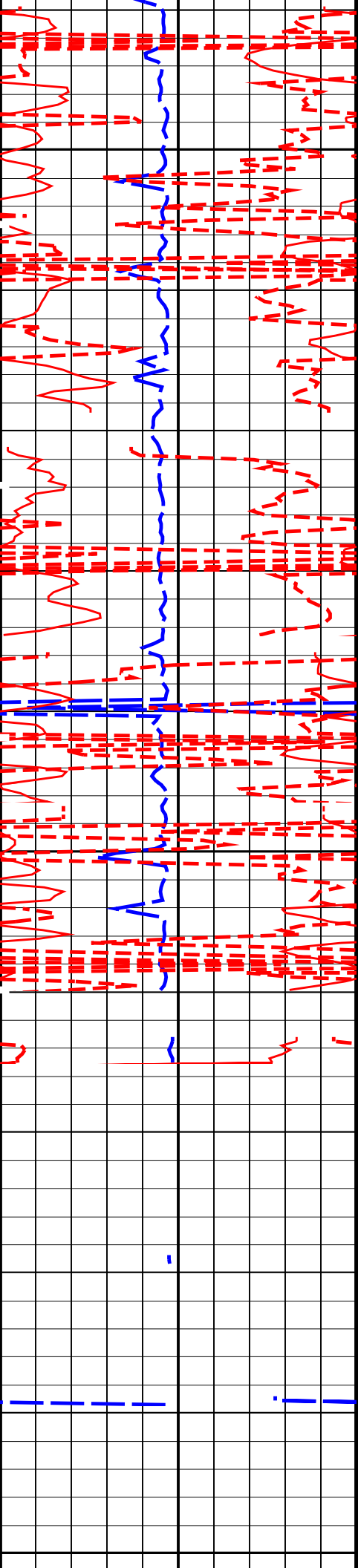
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3925

3950

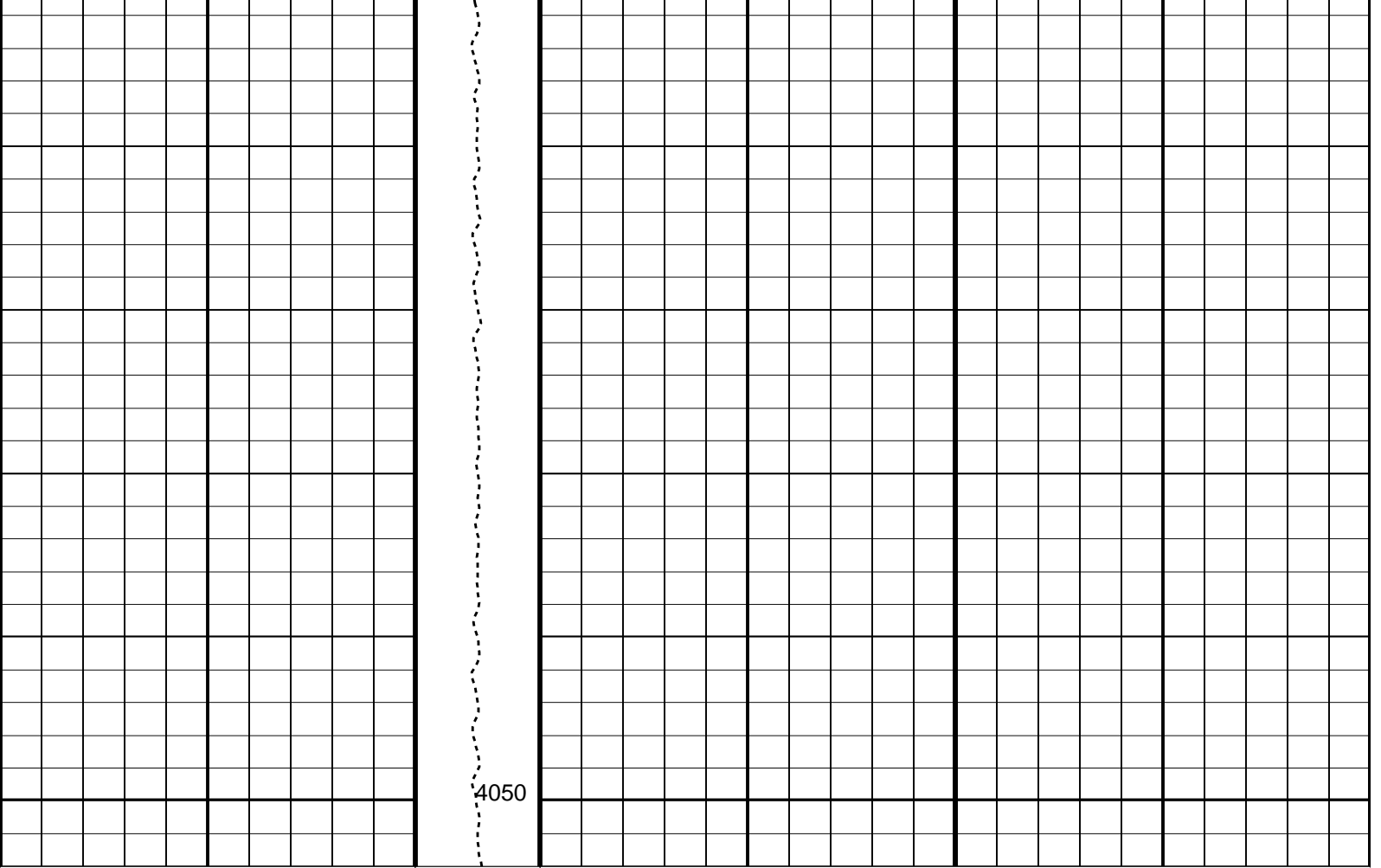




3975

4000

4025



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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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)	20 DEGC
GCSE	Generalized Caliper Selection	LCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
SHT	Surface Hole Temperature	20 DEGC
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	1976.24 V
ADSO	APS Array Detectors Data Source Switch	Both

AFSD	APS Far Detector High Voltage Setting	2067.55	V
AHCS	APS Holesize Correction Source	BS	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1737.8	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHFL_APS	APS TNPH Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	20	DEGC
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	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
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	1.08341	
NFRC	APS Near/Far Calibration Ratio	0.942369	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	20	DEGC
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)	20	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	20	DEGC
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	0.018227	DC/M
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	20	DEGC
System and Miscellaneous			
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	38000.00	PPM
CSIZ	Current Casing Size	10.750	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	0.0	M
FLEV	Fluid Level	-50000.00	M
PP	Playback Processing	NORMAL	
TD	Total Depth	10190.3	FT

Format: APSLiquidPorosity Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 03:15

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	28-Jul-2022 03:14	4052.0 M	3641.6 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:11	PRODUCER	28-Jul-2022 03:15
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Input DLIS Files

DEFAULT Flip_MSS_LDEO_HRLA_012LUP PRODUCER 28-Jul-2022 03:14 4052.0 M 3641.6 M

Output DLIS Files

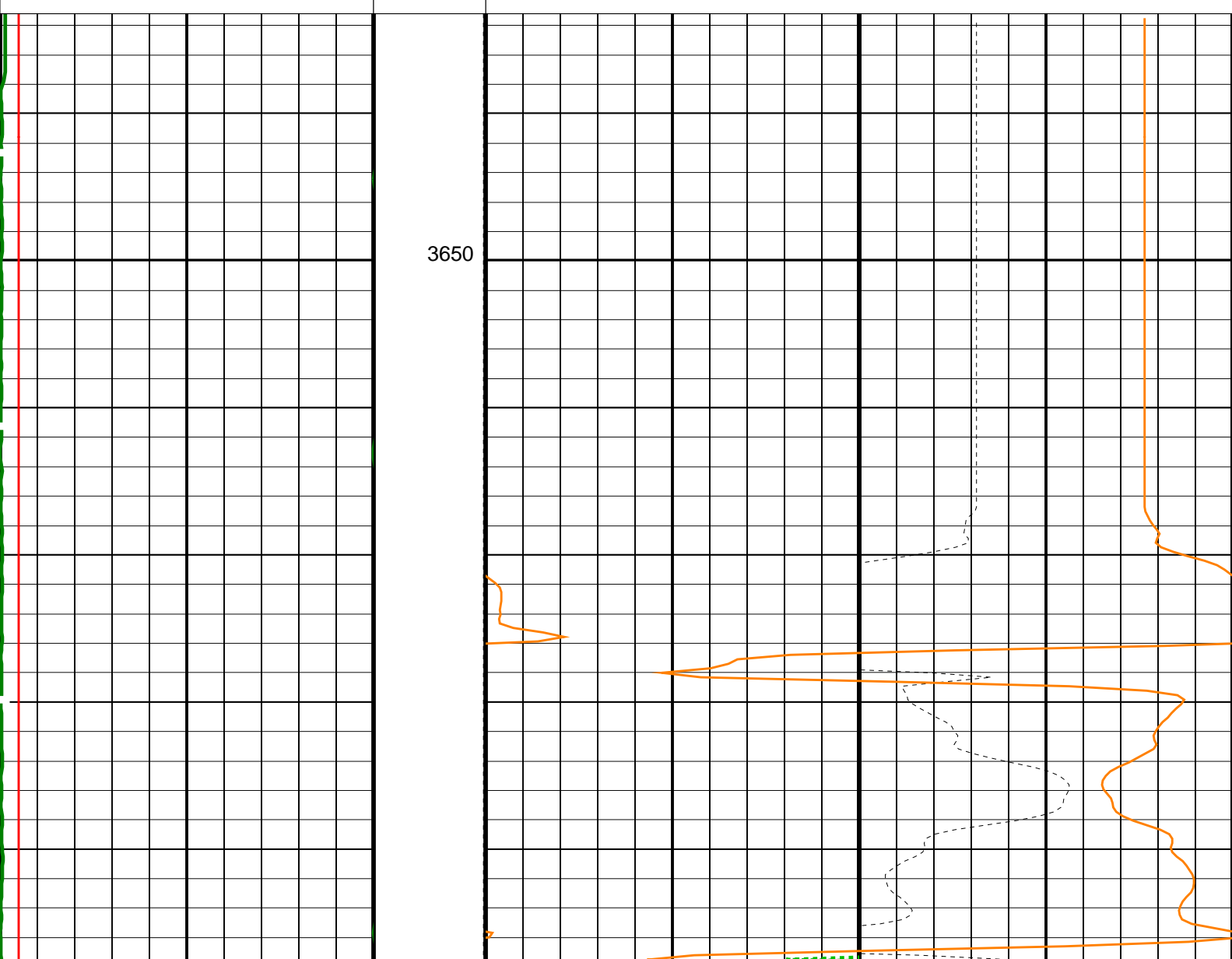
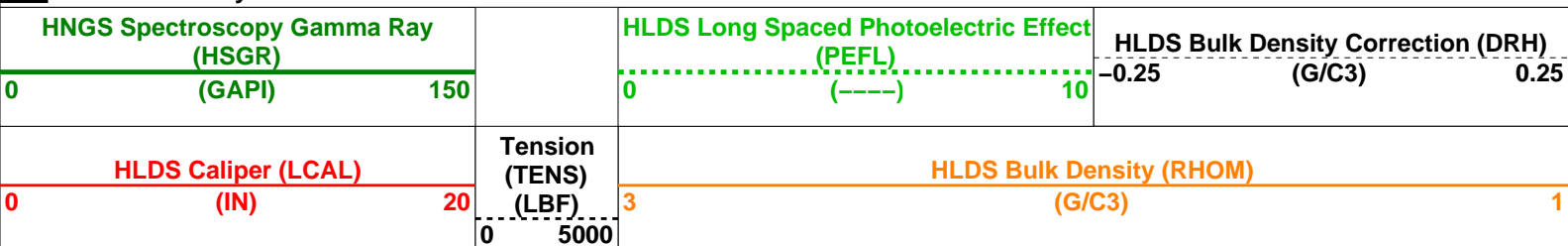
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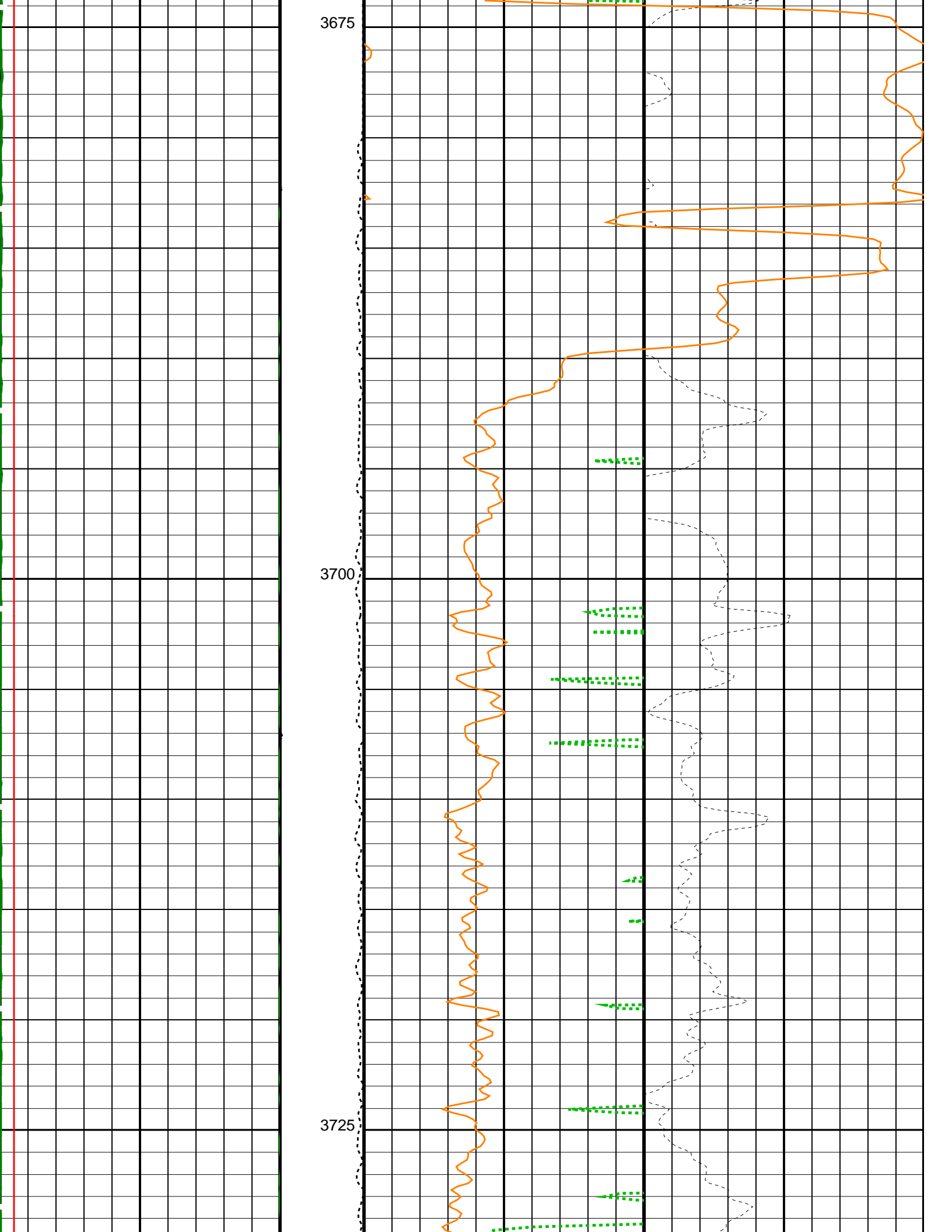
OP System Version: 19C0-187

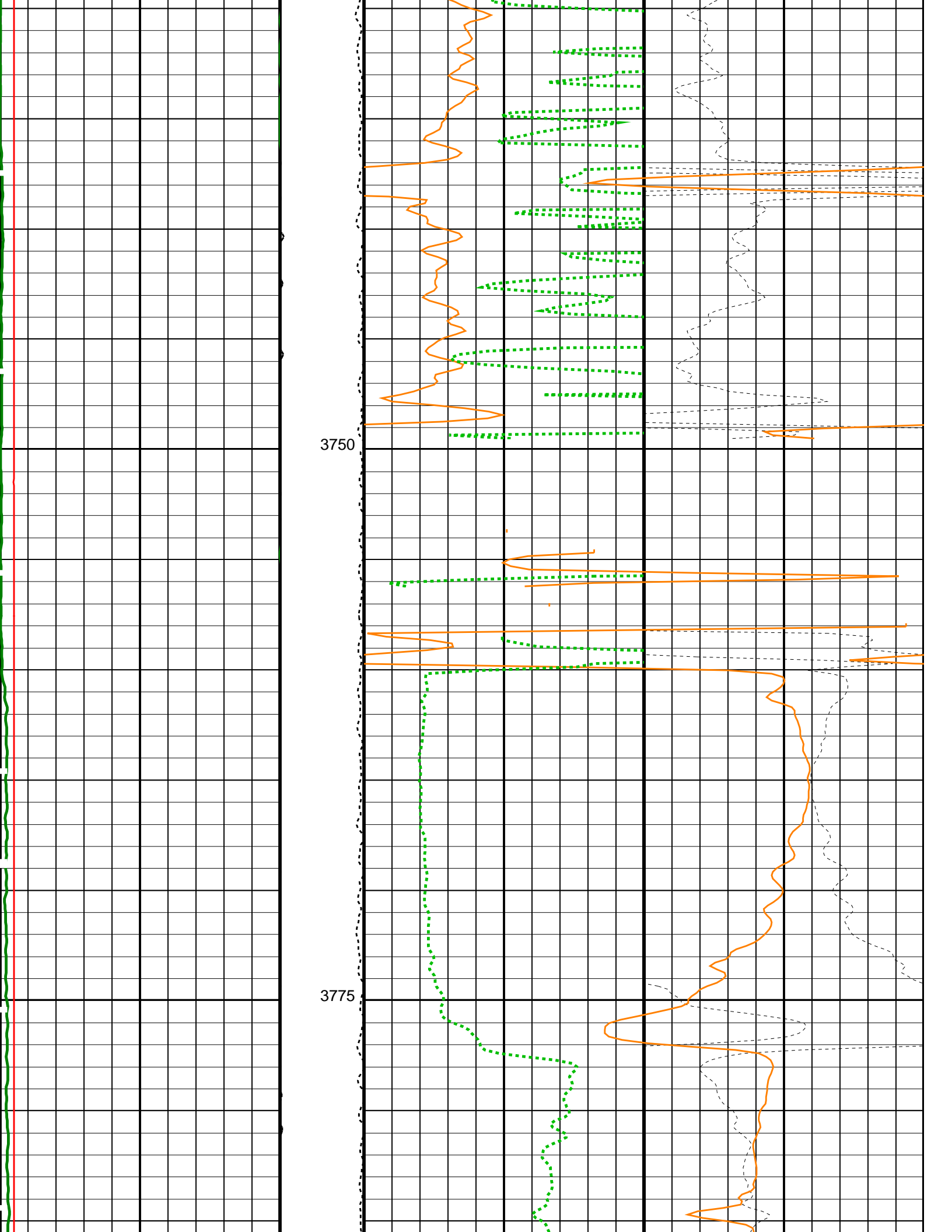
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HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

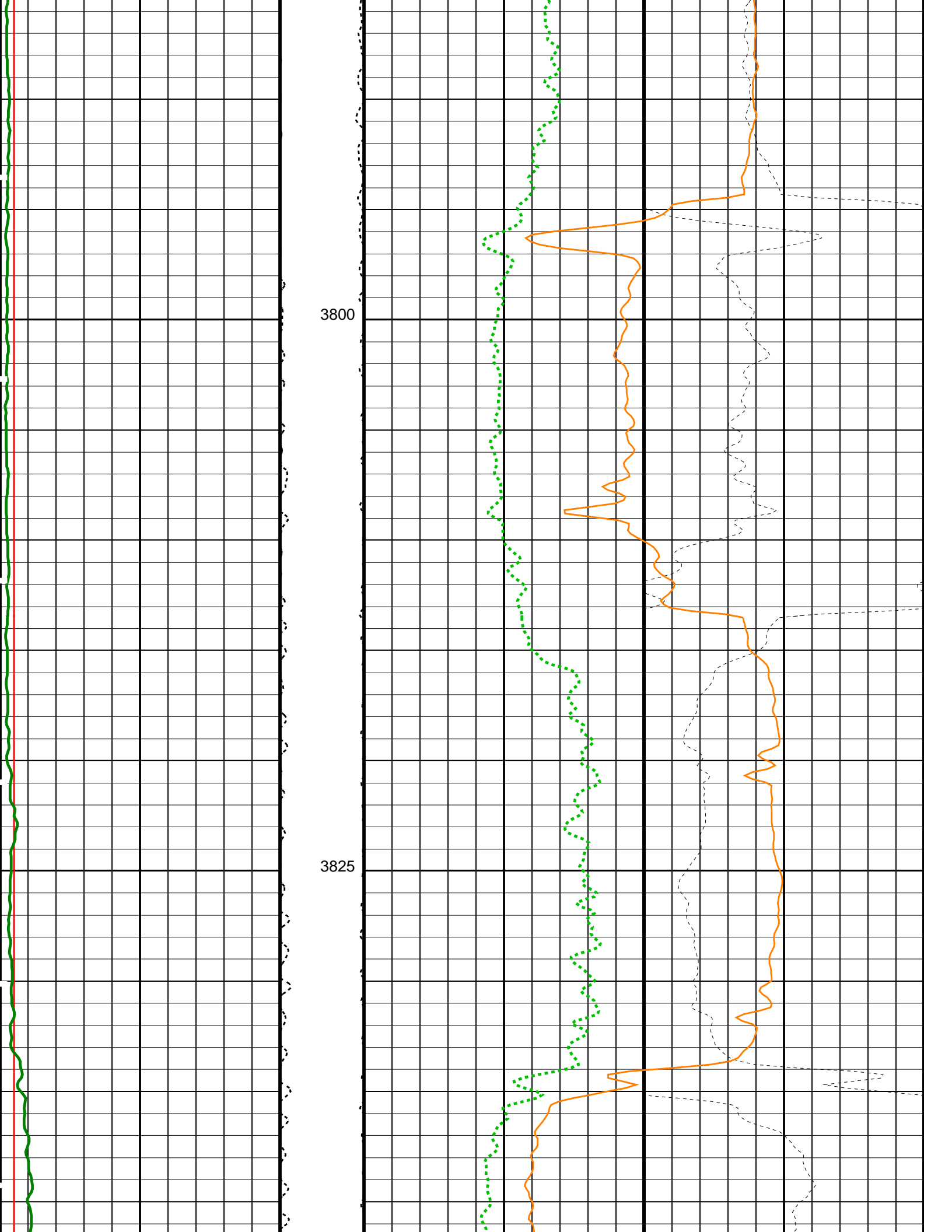
PIP SUMMARY

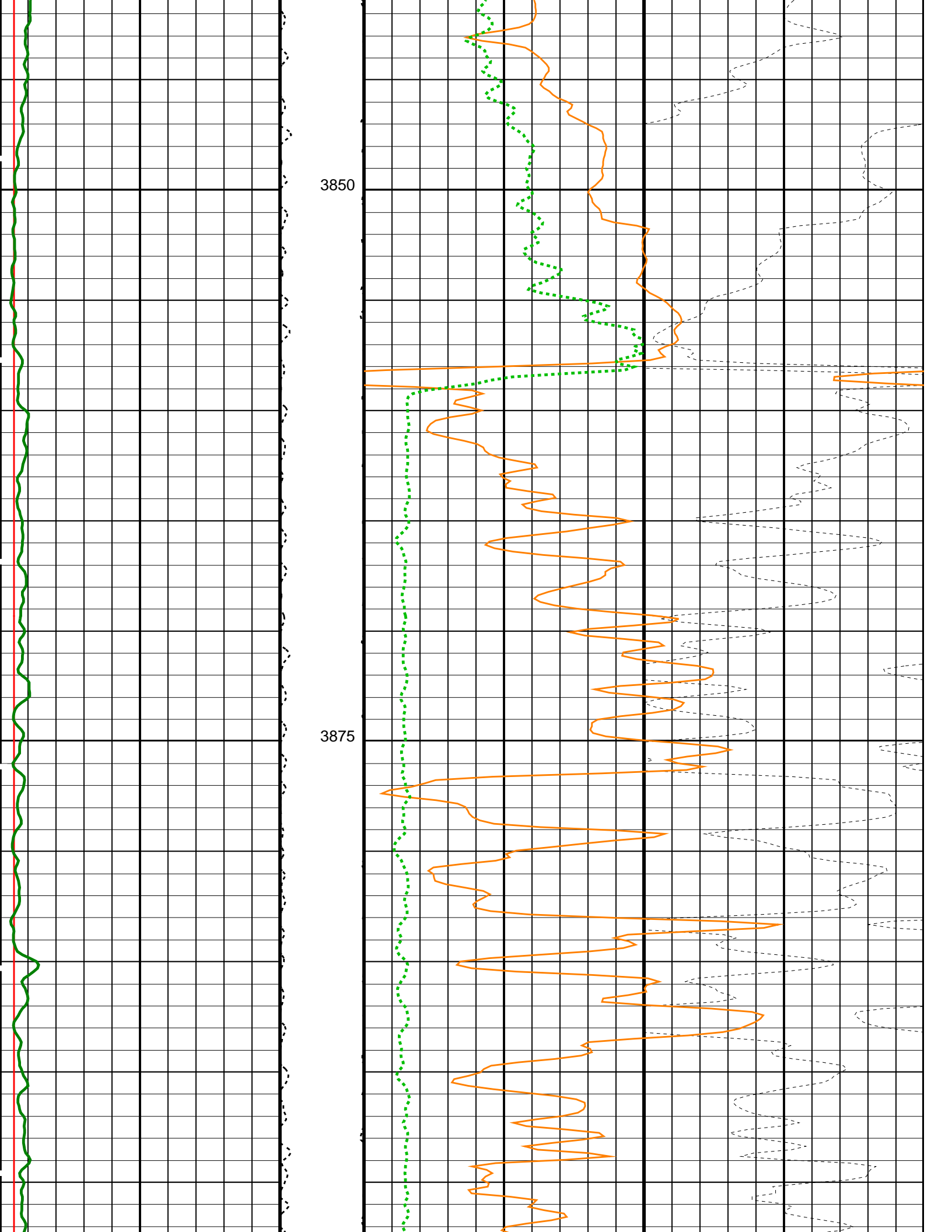
Time Mark Every 60 S

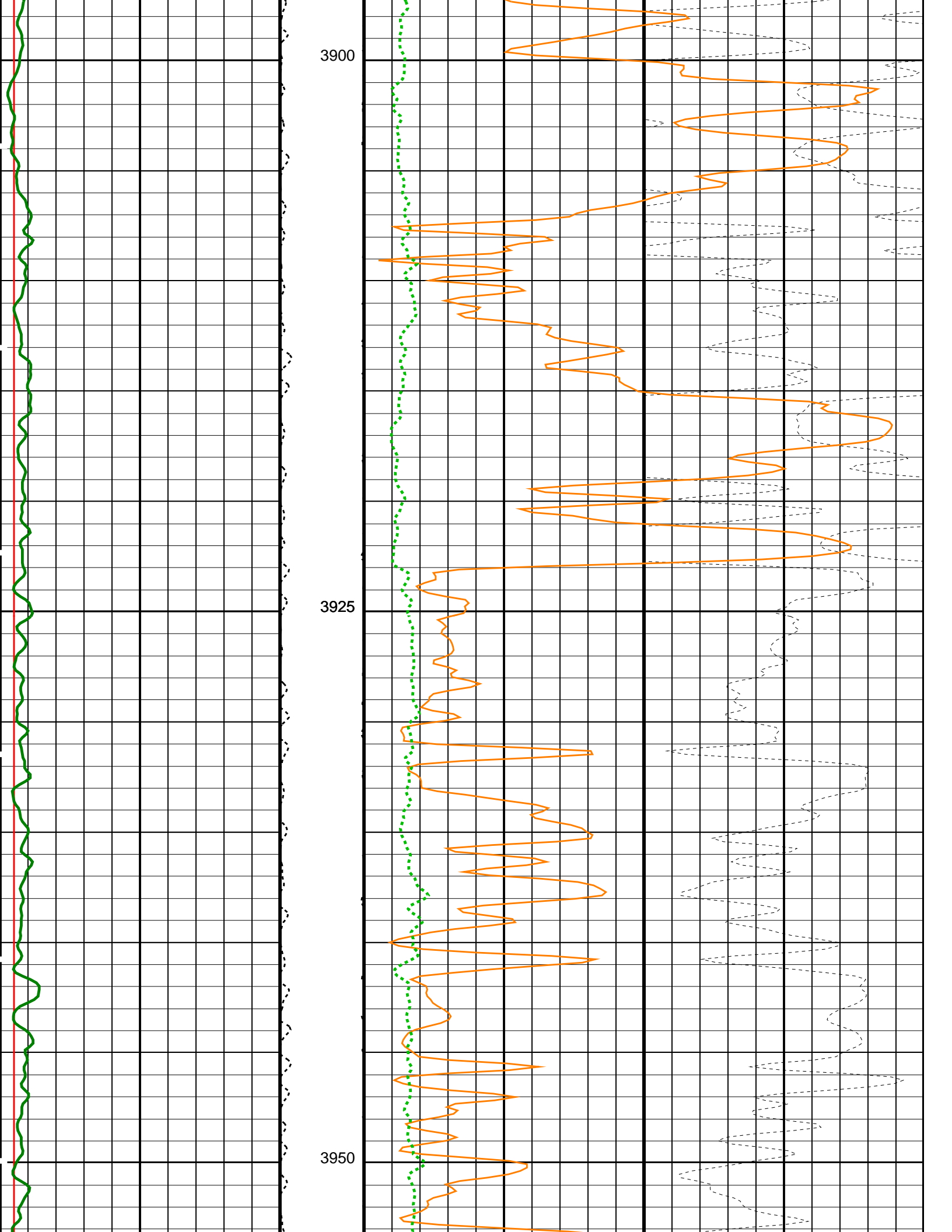


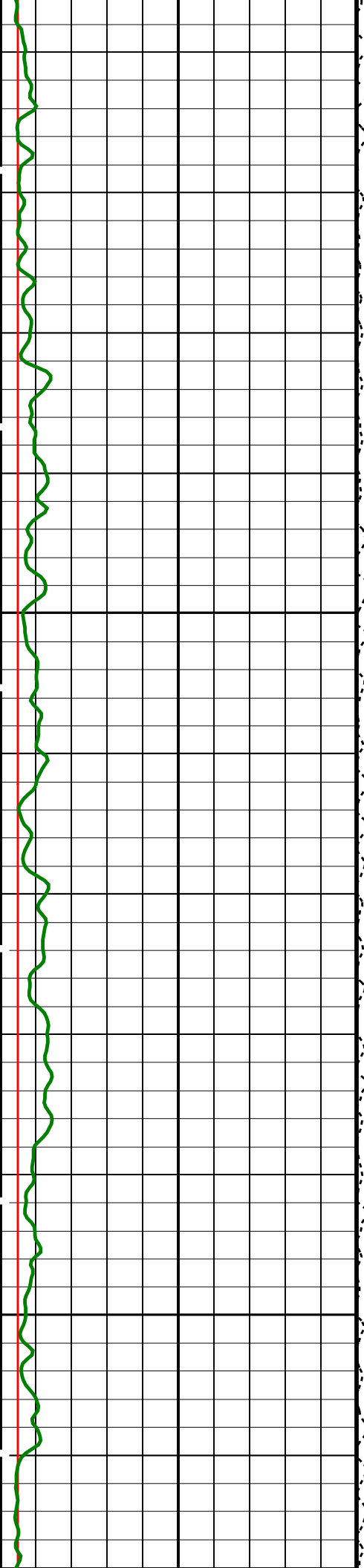






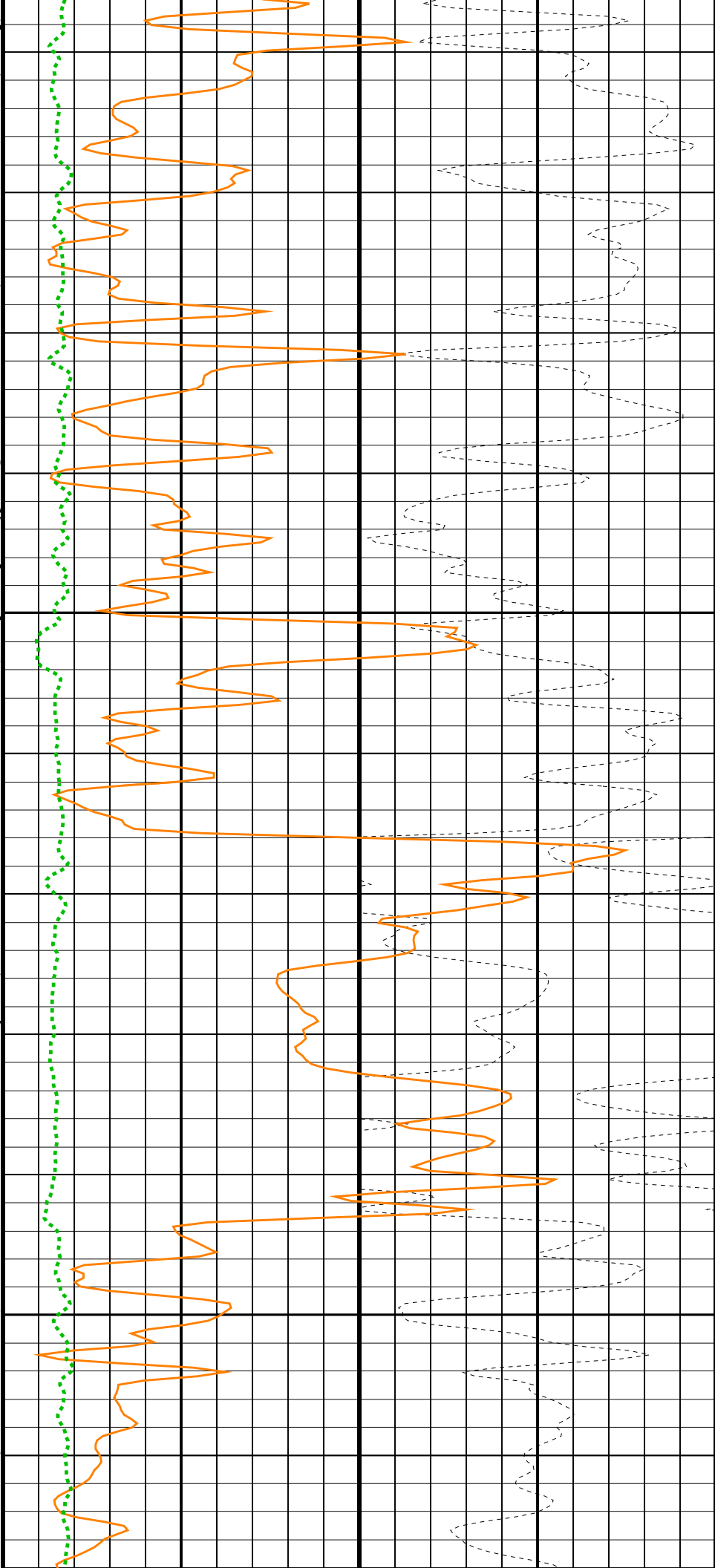


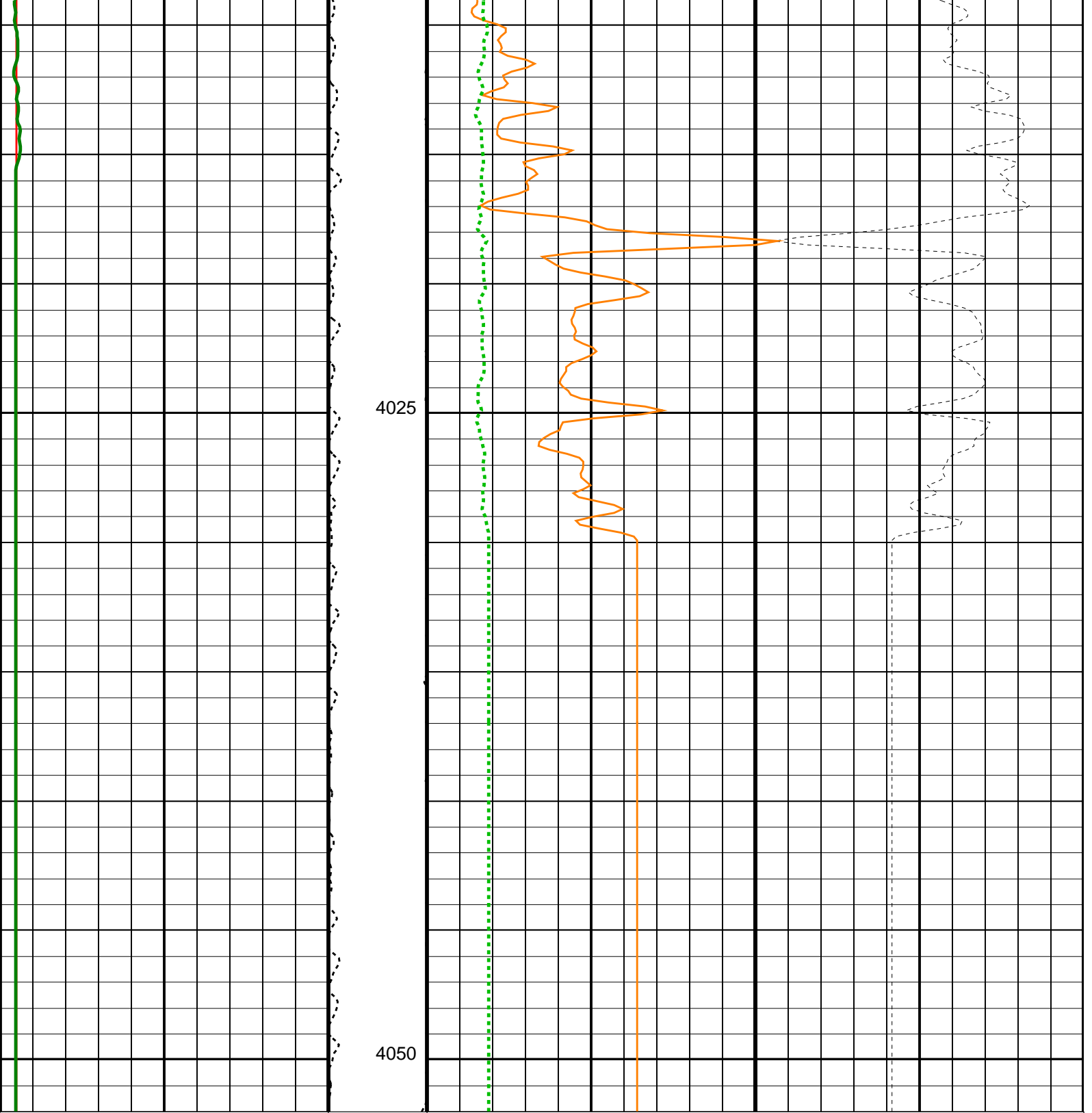




3975

4000





HLDS Caliper (LCAL) 0 (IN) 20		Tension (TENS) (LBF) 0 5000	HLDS Bulk Density (RHOM) 3 (G/C3) 1	
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 150		HLDS Long Spaced Photoelectric Effect (PEFL) (----) 0 10		HLDS Bulk Density Correction (DRH) -0.25 (G/C3) 0.25

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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HLDT B: High Resolution Lateral Array - B

BHS	HRLT-B: High Resolution Laterolog Array - B	Borehole Status	OPEN	
GCSE		Generalized Caliper Selection	LCAL	
	HLDS: Hostile Litho-Density Sonde	Density Hole Correction	CALIPER	
DHC		Density Porosity Processing Mode	HIRS	
DPPM		Fluid Density	1	G/C3
FD		HLDS Activation Correction	OFF	
LATC		Matrix Density	2.71	G/C3
MDEN	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	HNGS Detector 1 Barite Constant	1	
BAR1		HNGS Detector 2 Barite Constant	1	
BAR2		HNGS Borehole Potassium Correction Concentration	0	
BHK		Borehole Status	OPEN	
BHS		Inner Casing Outer Diameter	0	IN
CSD1		Outer Casing Outer Diameter	0	IN
CSD2		Inner Casing Weight	0	LB/F
CSW1		Outer Casing Weight	0	LB/F
CSW2		HNGS Barite Constant Correction Flag	NONE	
DBCC		Generalized Caliper Selection	LCAL	
GCSE		HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H1P		HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
H2P		HNGS Borehole Potassium Running Average	0.0242776	
HABK		HNGS Alpha Filter Length	60	IN
HALF		HNGS Apply Borehole Potassium Correction	NONE	
HCRB		Mud Weighting Material	NATU	
HMWM		HNGS Processing Enable	YES	
HNPE		HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1BI		HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2BI		HNGS Standard Gamma-Ray Correction Flag	YES	
SGRC		Tool Position	ECCE	
TPOS		HNGS Detector 1 Variable Barite Factor Running Average	0.828271	
VBA1		HNGS Detector 2 Variable Barite Factor Running Average	0.789142	
VBA2	EDTC-B: Enhanced DTS Cartridge	Borehole Status	OPEN	
BHS		Density Porosity Processing Mode	HIRS	
DPPM		Generalized Caliper Selection	LCAL	
GCSE	System and Miscellaneous	Bit Size	9.875	IN
BS		Drilling Fluid Density	1.03	G/C3
DFD		Depth Offset for Playback	0.0	M
DO		Playback Processing	NORMAL	
PP				

Format: HLDSDensityPE Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 03:15

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	28-Jul-2022 03:14	4052.0 M	3641.6 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:11	PRODUCER	28-Jul-2022 03:15	
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Company: International Ocean Discovery Program Well: Expedition 393, Site U1560B

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	28-Jul-2022 03:14	4052.0 M	3641.6 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:11	PRODUCER	28-Jul-2022 03:15	4052.0 M	3641.6 M
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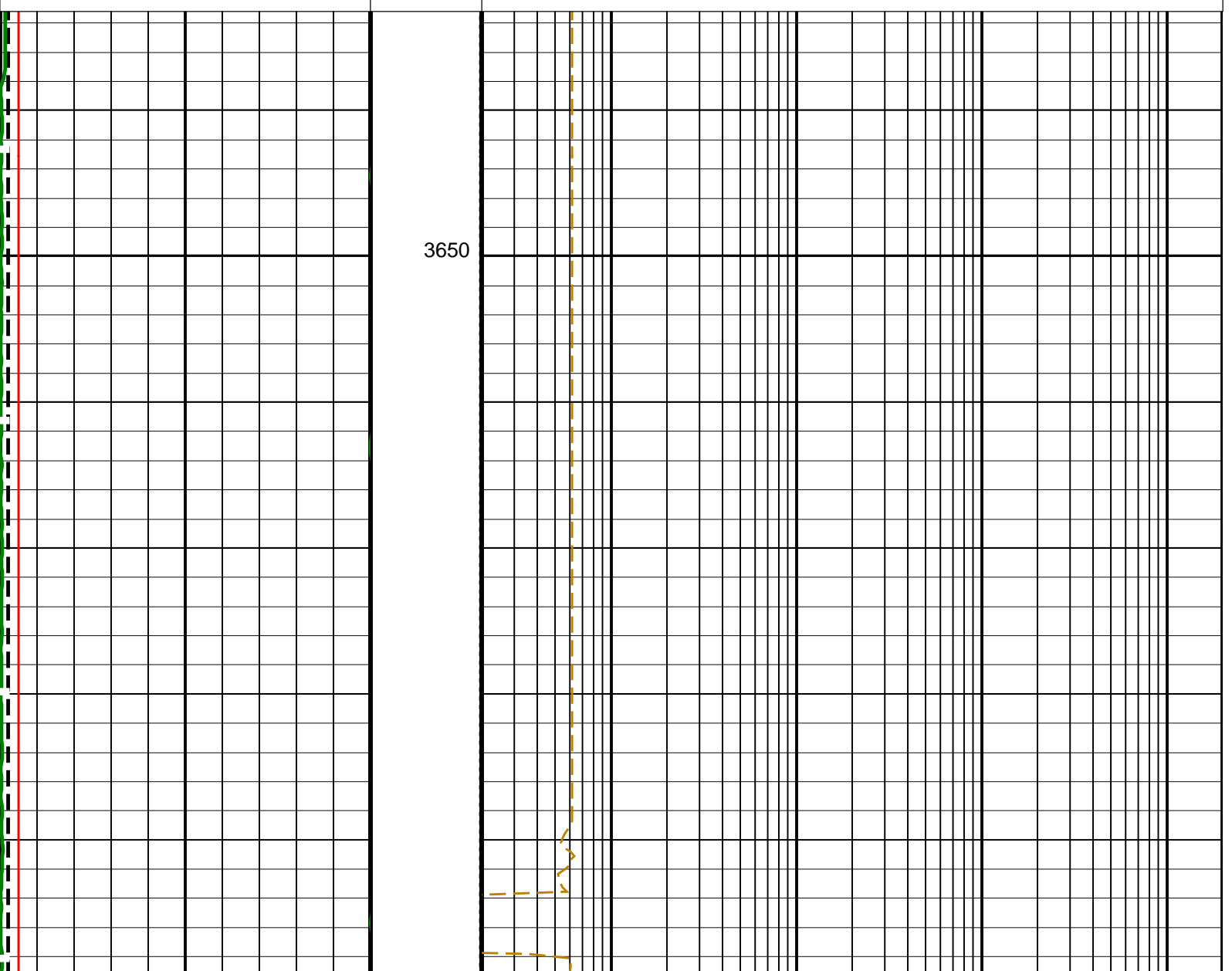
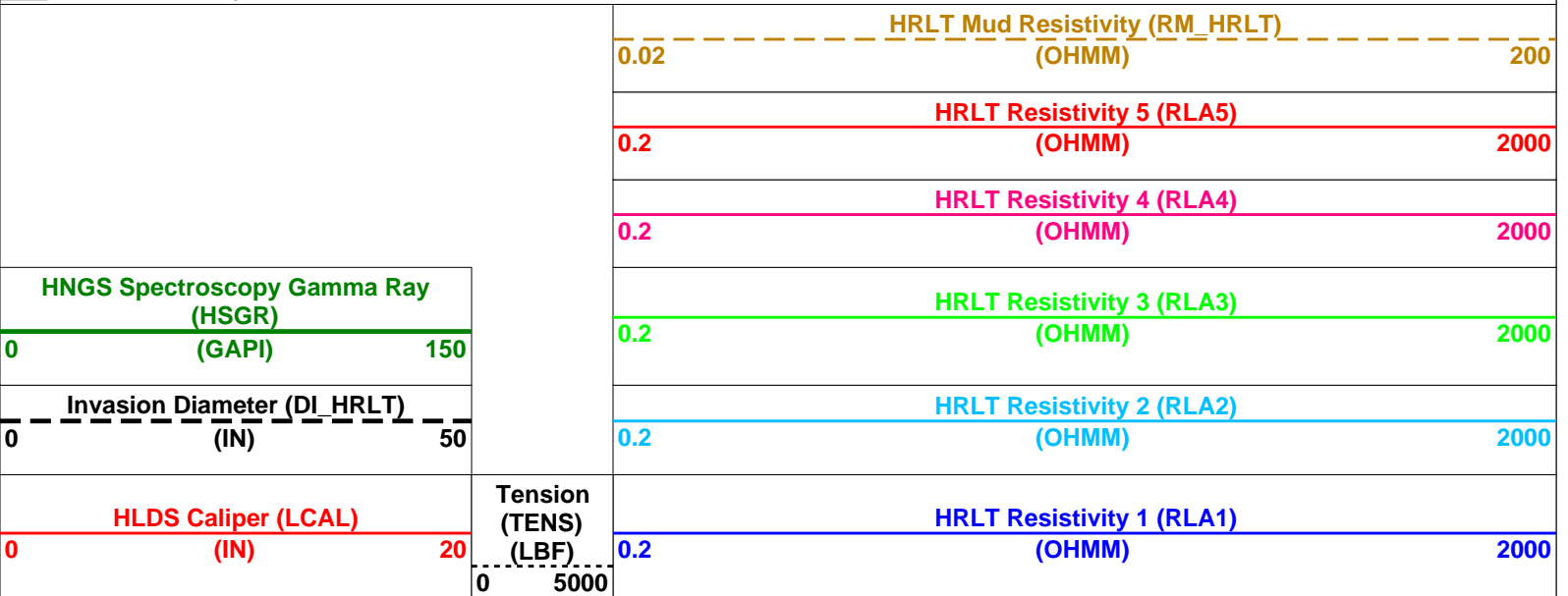
OP System Version: 19C0-187

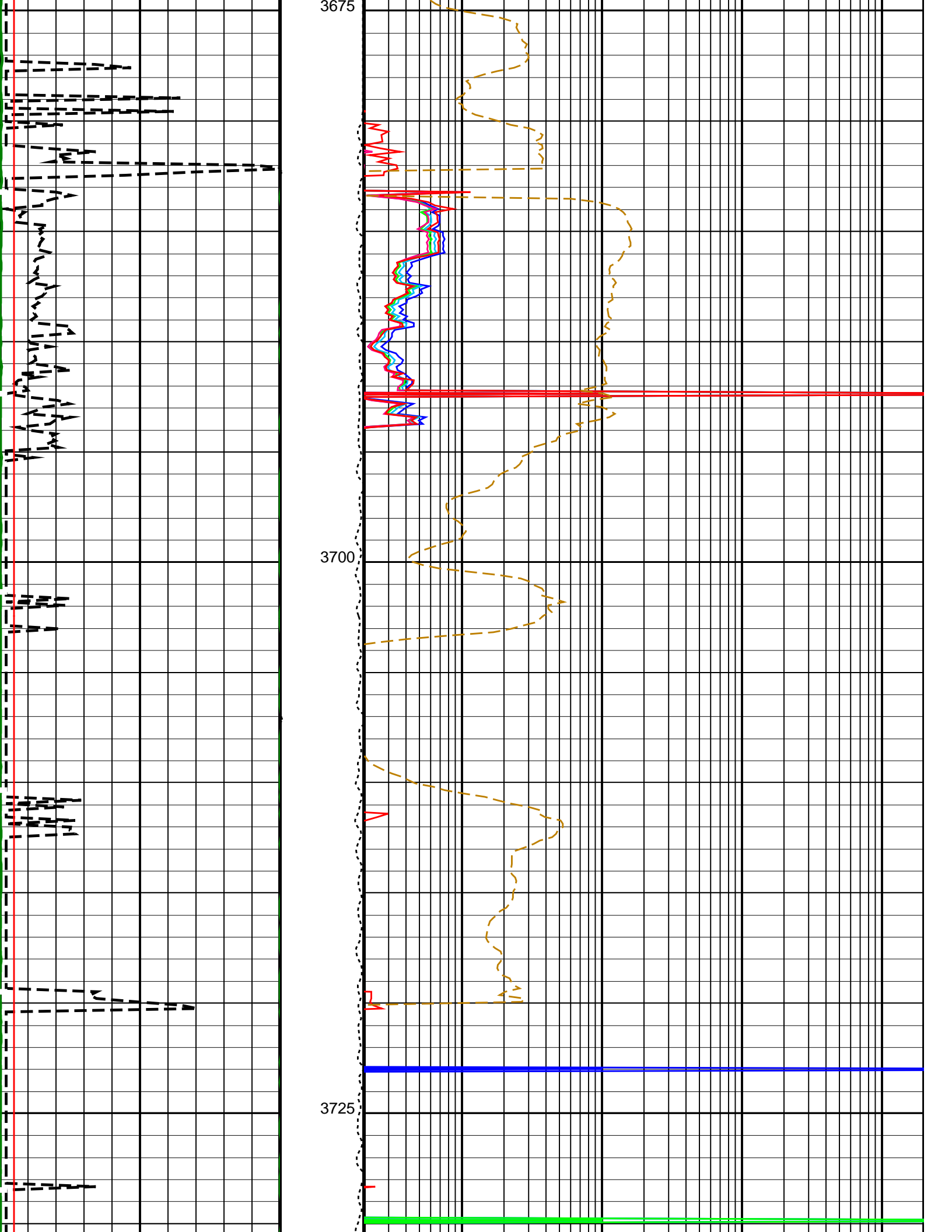
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 HLDS 19C0-187
 APS-C 19C0-187
 HNGS-BA 19C0-187

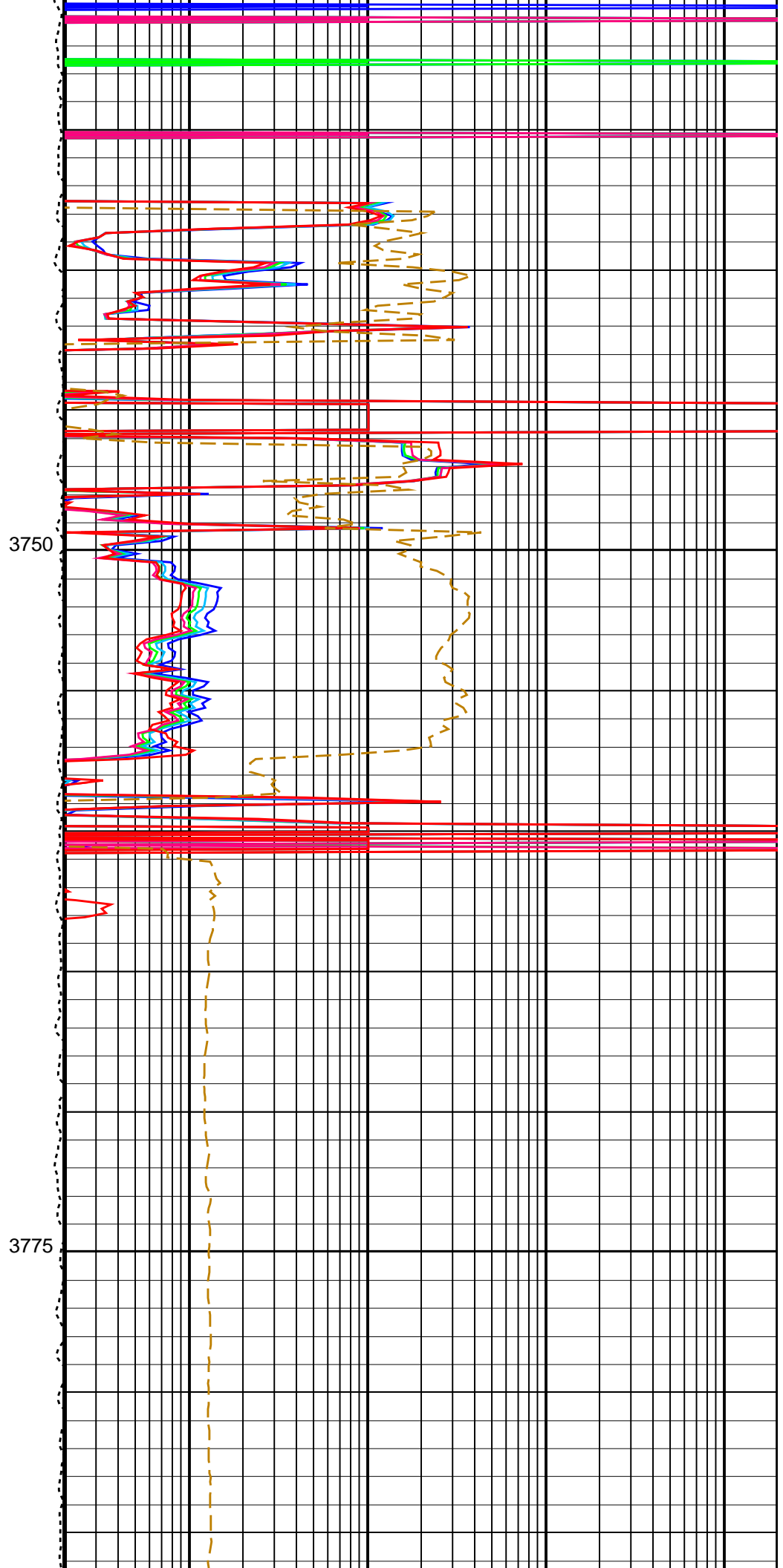
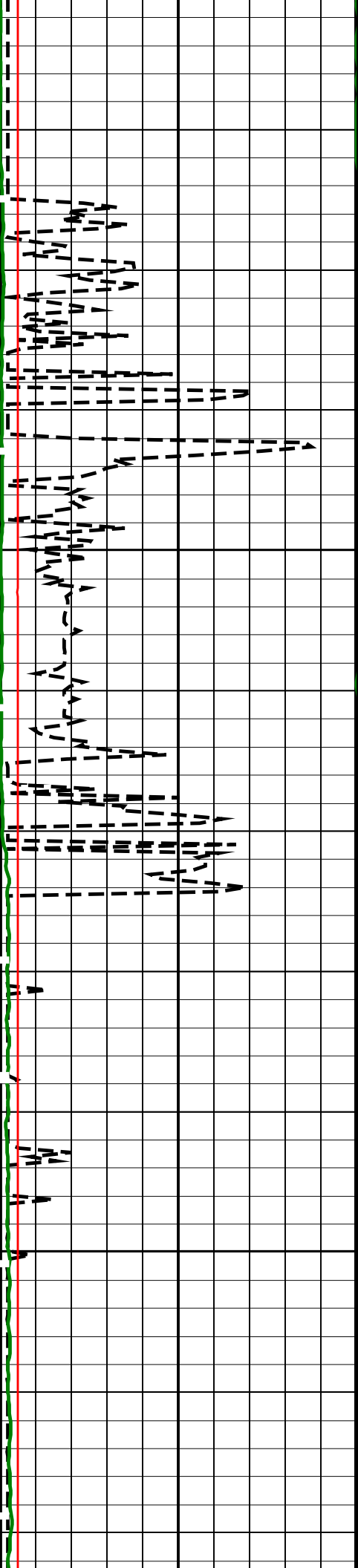
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 LDSC-B 19C0-187
 HNGC-B 19C0-187
 EDTC-B SKK-5169-EDTCB

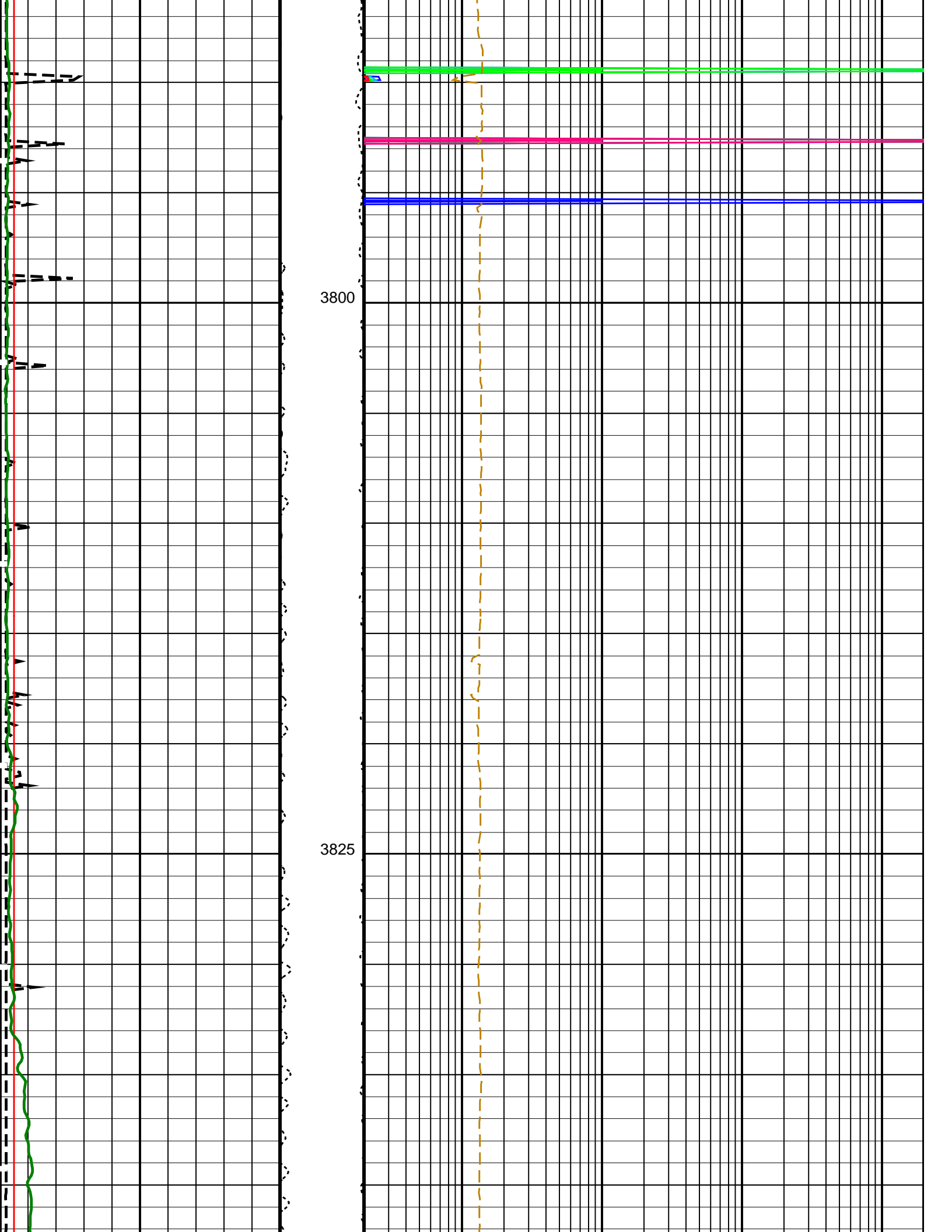
PIP SUMMARY

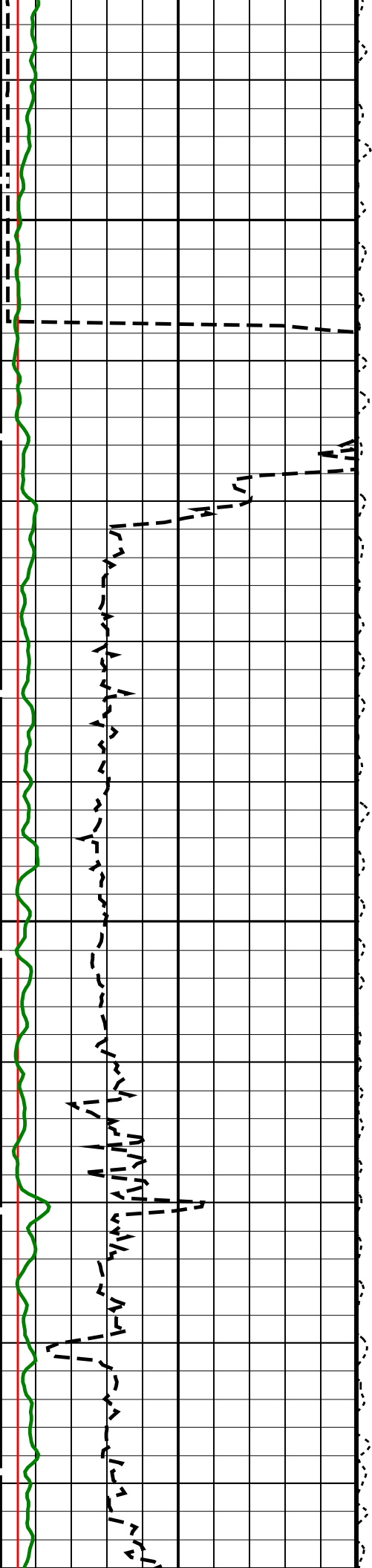
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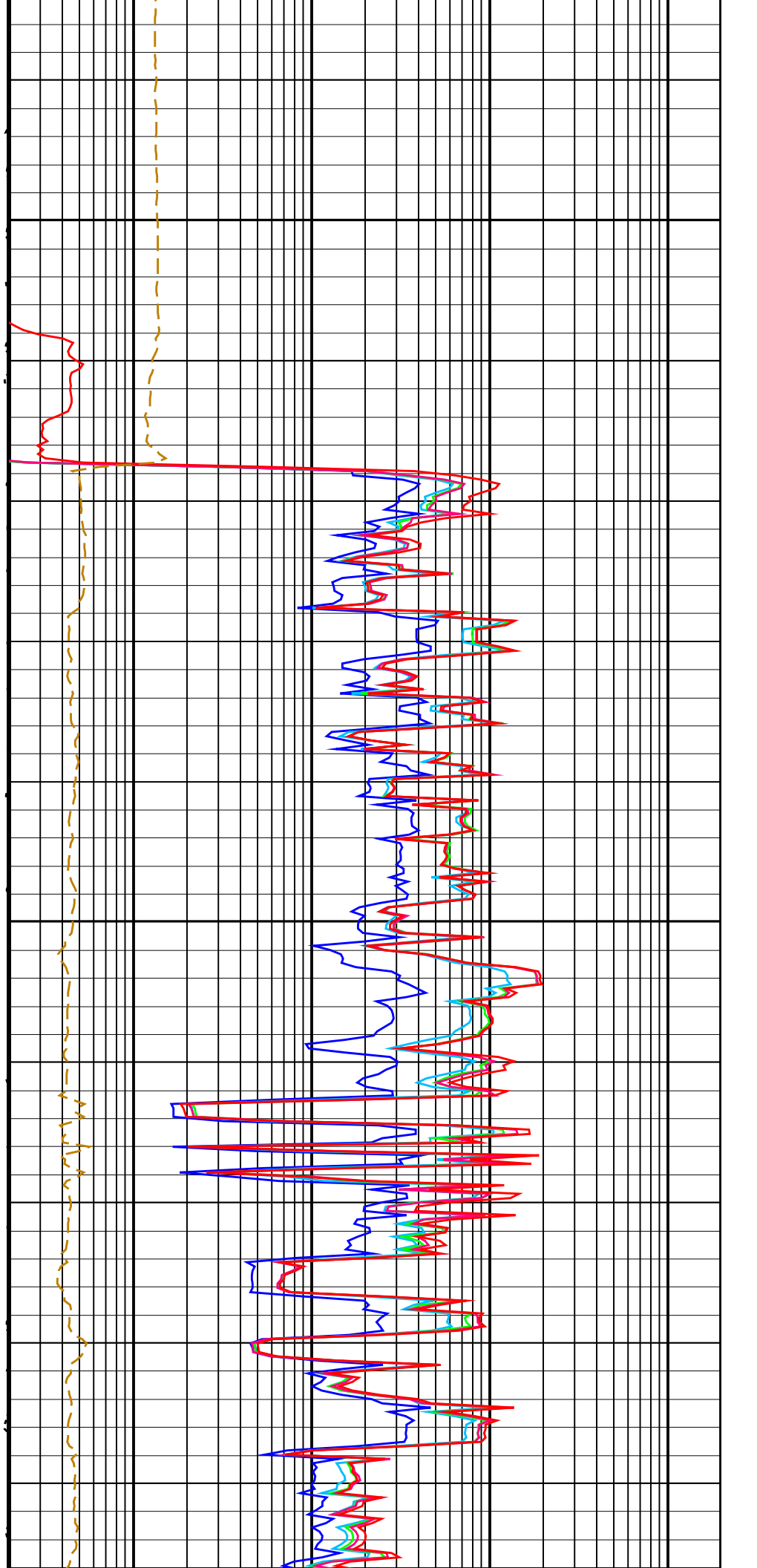


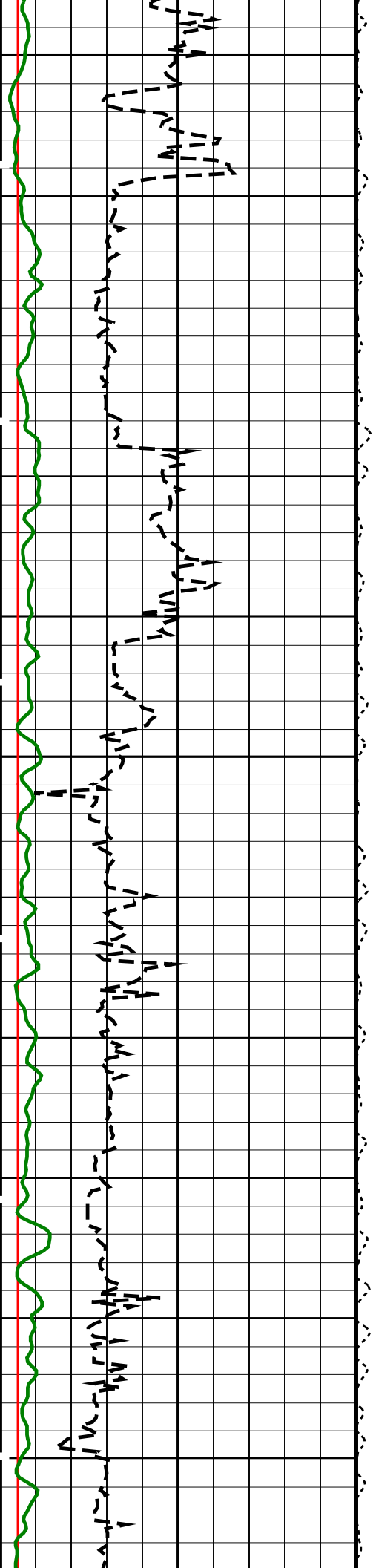




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3875

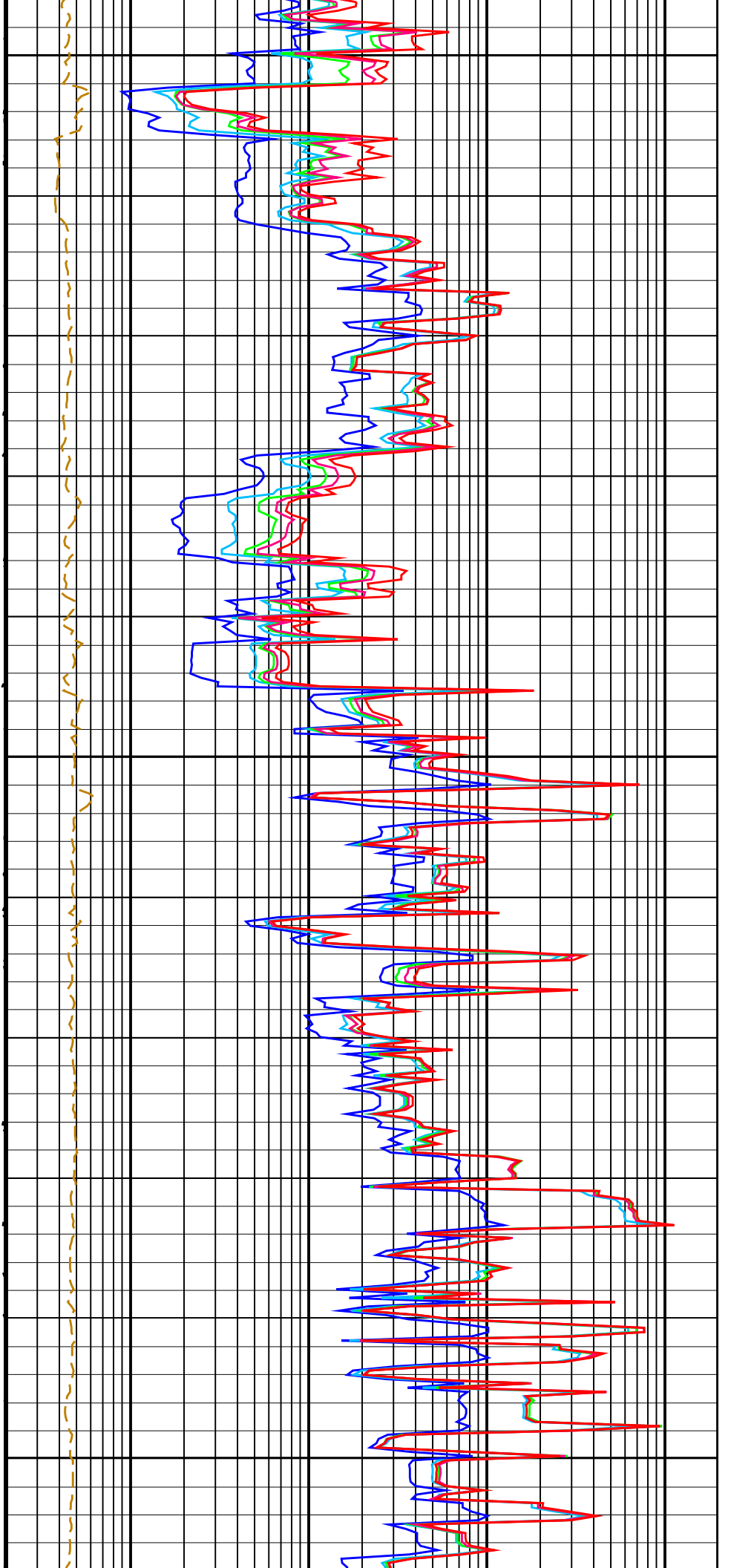


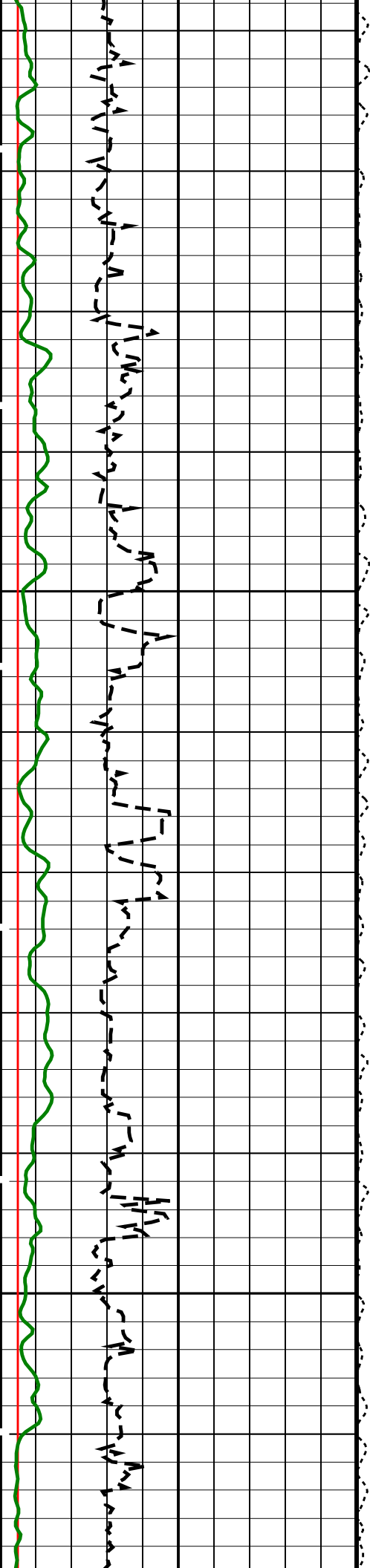


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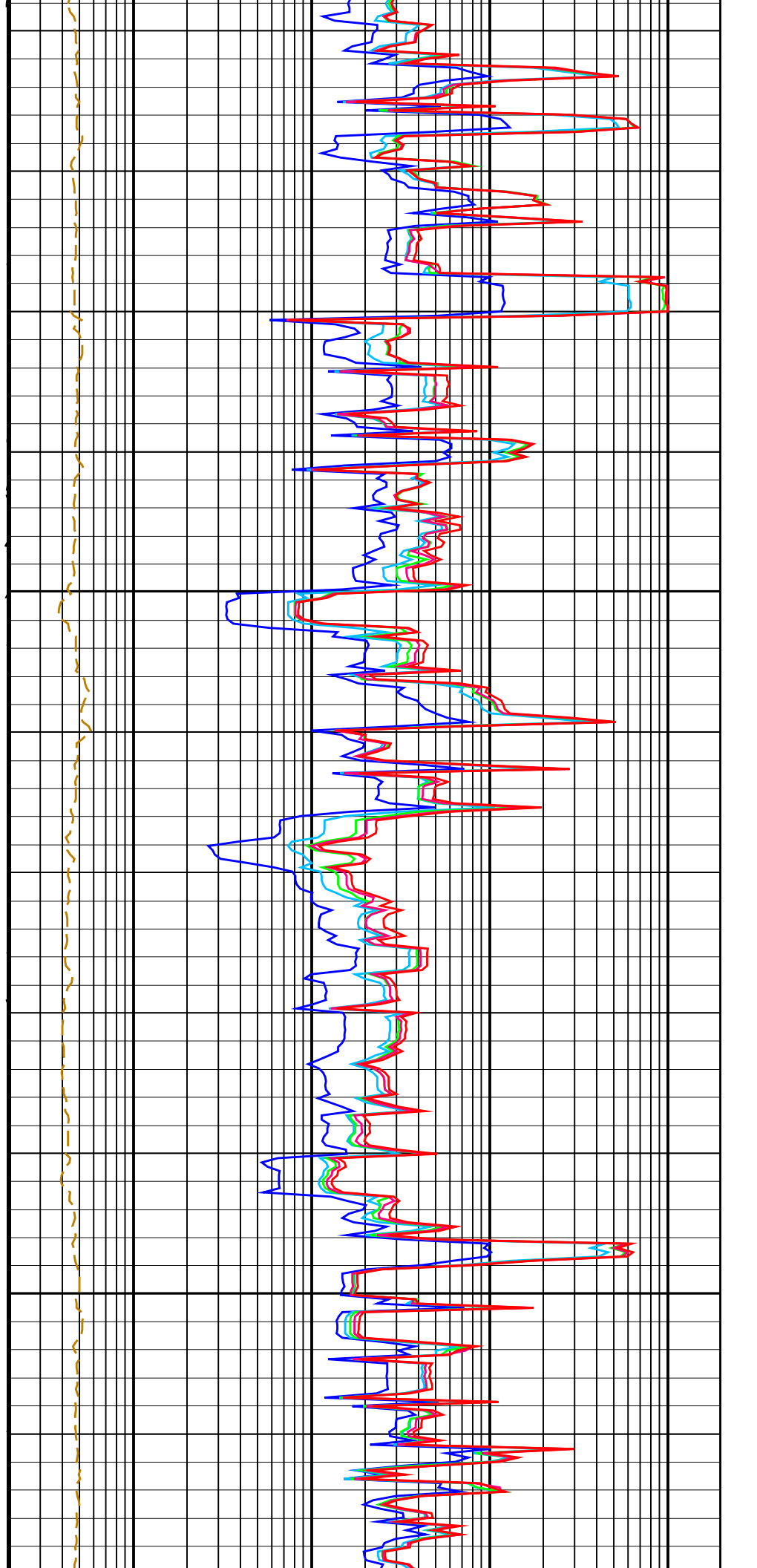
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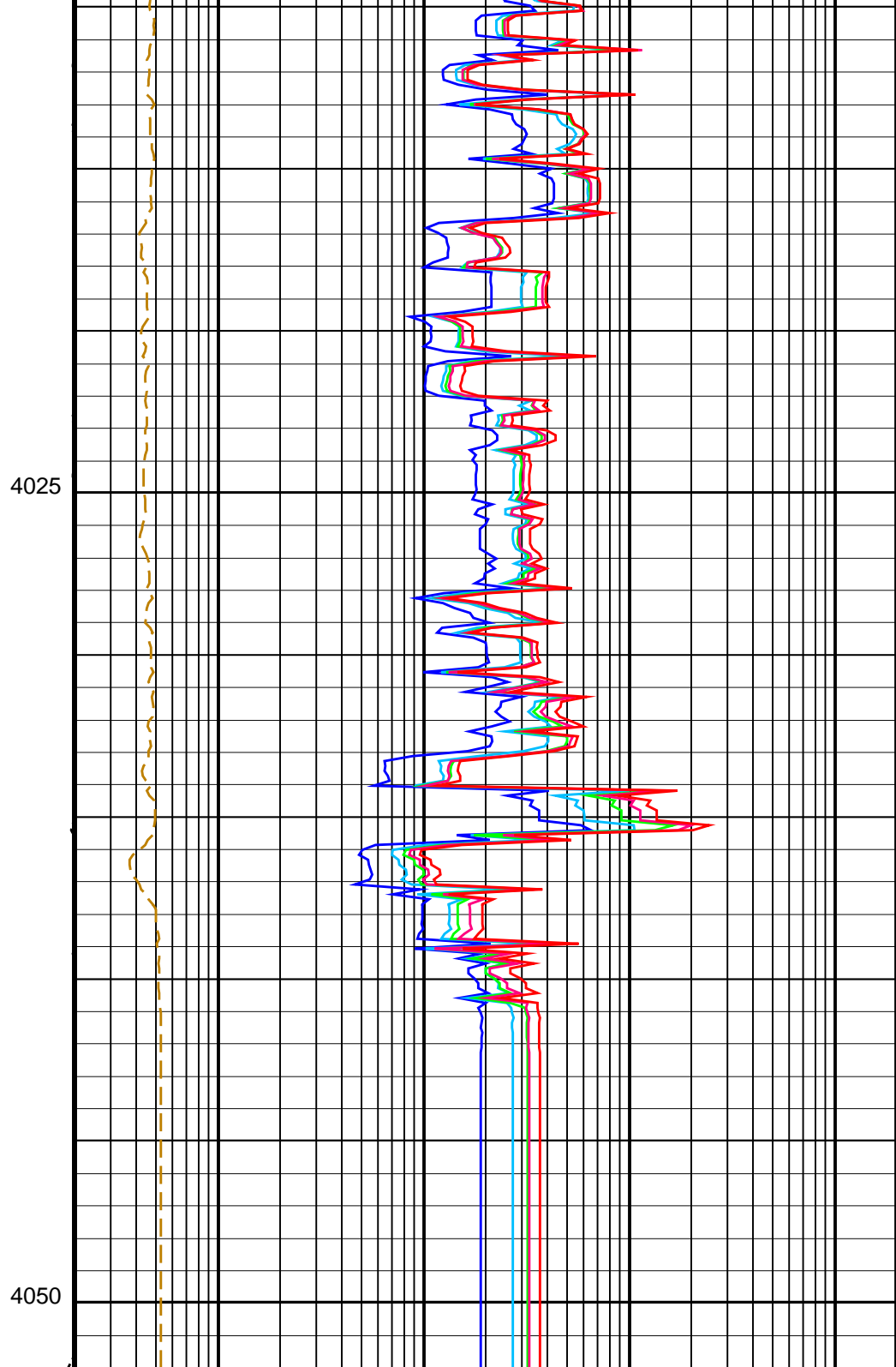
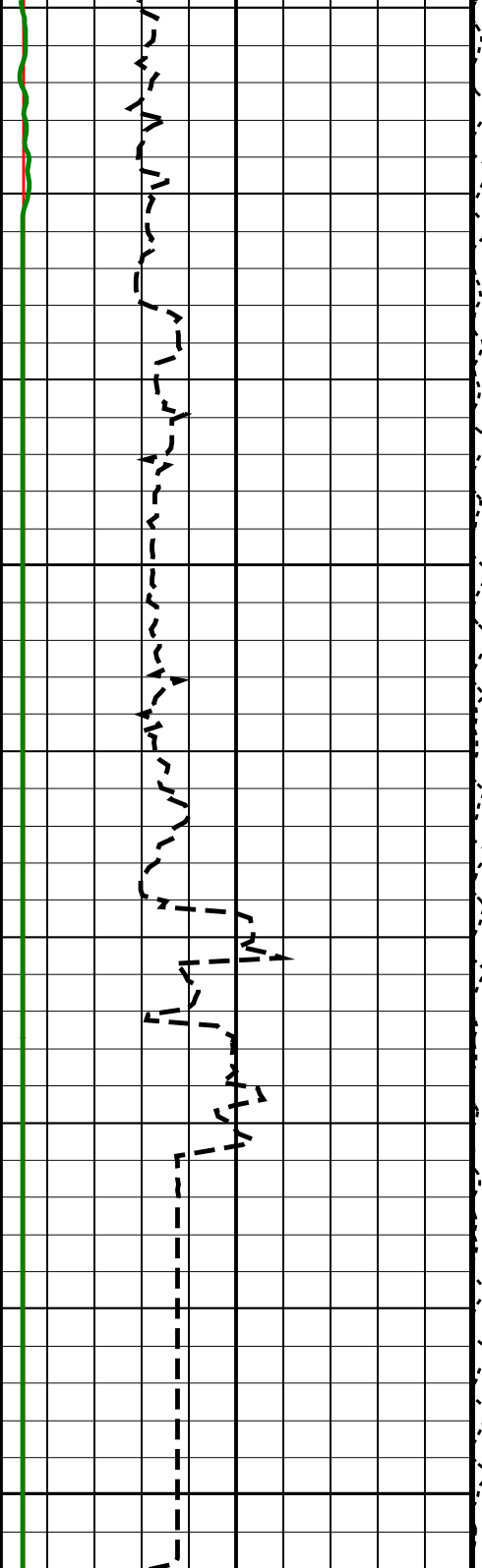




3975

4000





HLDS Caliper (LCAL)	
0	20
(IN)	
Invasion Diameter (DI_HRLT)	
0	50
(IN)	
HNGS Spectroscopy Gamma Ray (HSGR)	
0	150
(GAPI)	

Tension (TENS) (LBF)	HRLT Resistivity 1 (RLA1) (OHMM)
0	2000
5000	
HRLT Resistivity 2 (RLA2) (OHMM)	HRLT Resistivity 3 (RLA3) (OHMM)
0.2	2000
HRLT Resistivity 4 (RLA4) (OHMM)	HRLT Resistivity 5 (RLA5) (OHMM)
0.2	2000
HRLT Resistivity 5 (RLA5) (OHMM)	
0.2	2000

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)	20	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
KFAC_HRLT	HRLT K Factor Option	SONDE	
PROGINV	Inversion Selection	ON	
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO	
PROCMO	Mechanical Standoff Fin Size	0	IN
PROCRM	Processing Mud Resistivity Select	HRLT_Compute	
PROCSPO	Sonde Position	Centered	
SHT	Surface Hole Temperature	20	DEGC
APS-C: Accelerator-Porosity Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	20	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
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)	20	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	0.0242776	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.828271	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.789142	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	20	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	
TD	Total Depth	10190.3	FT

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

Input DLIS Files

DEFAULT Flip_MSS_LDEO_HRLA_012LUP PRODUCER 28-Jul-2022 03:14 4052.0 M 3641.6 M

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_013PUP FN:11 PRODUCER 28-Jul-2022 03:15

Company: International Ocean Discovery Program Well: Expedition 393, Site U1560B

Input DLIS Files

DEFAULT Flip_MSS_LDEO_HRLA_012LUP PRODUCER 28-Jul-2022 03:14 4052.0 M 3641.6 M

Output DLIS Files

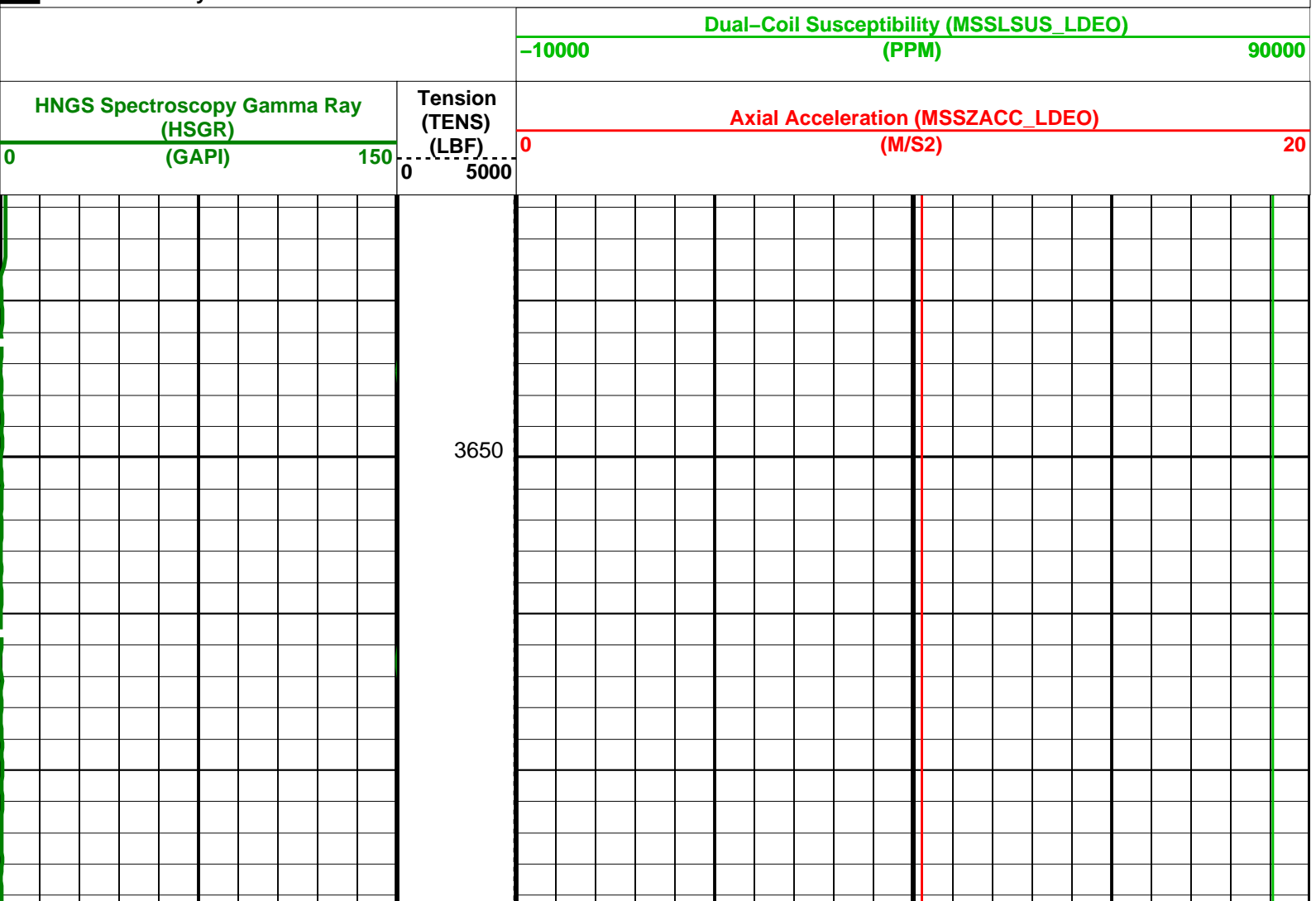
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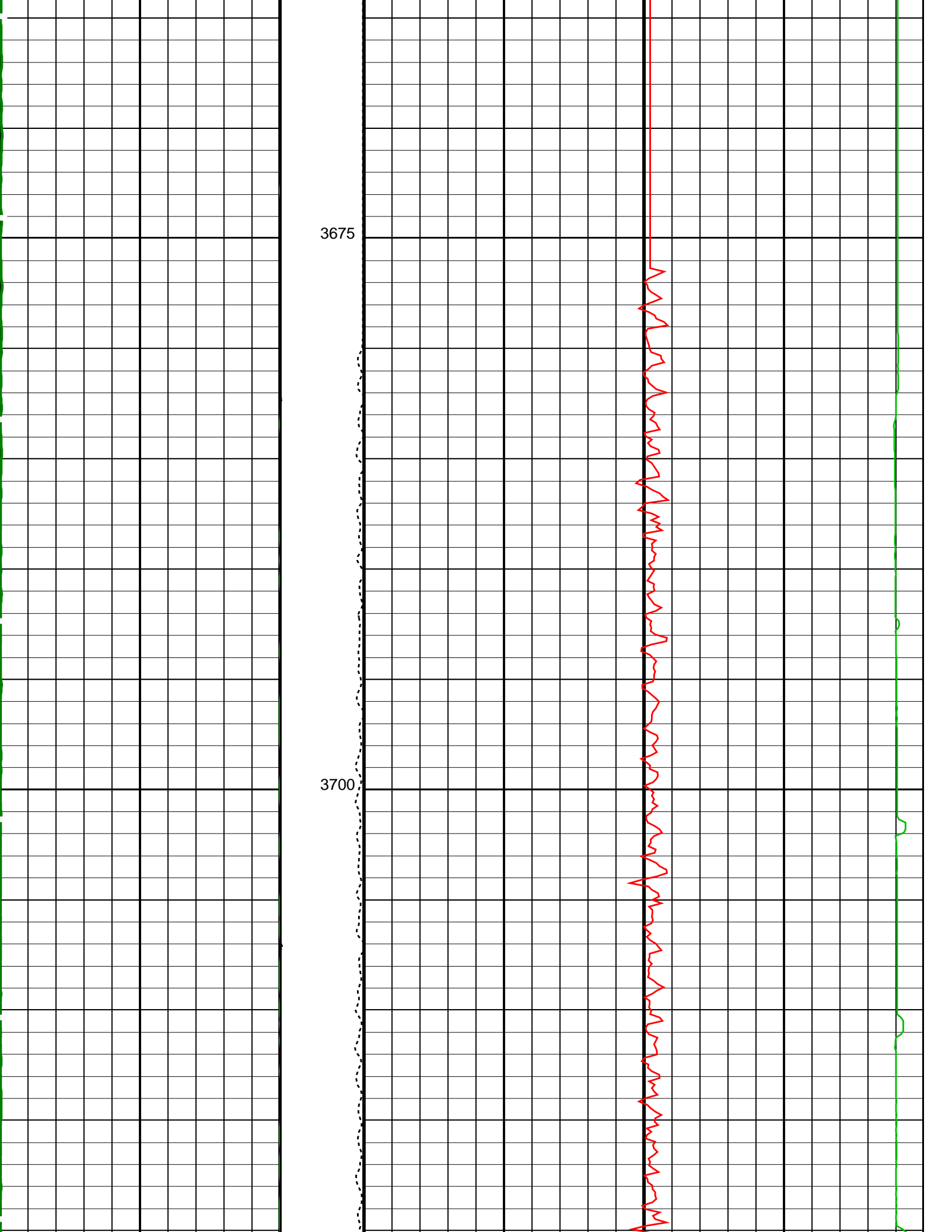
OP System Version: 19C0-187

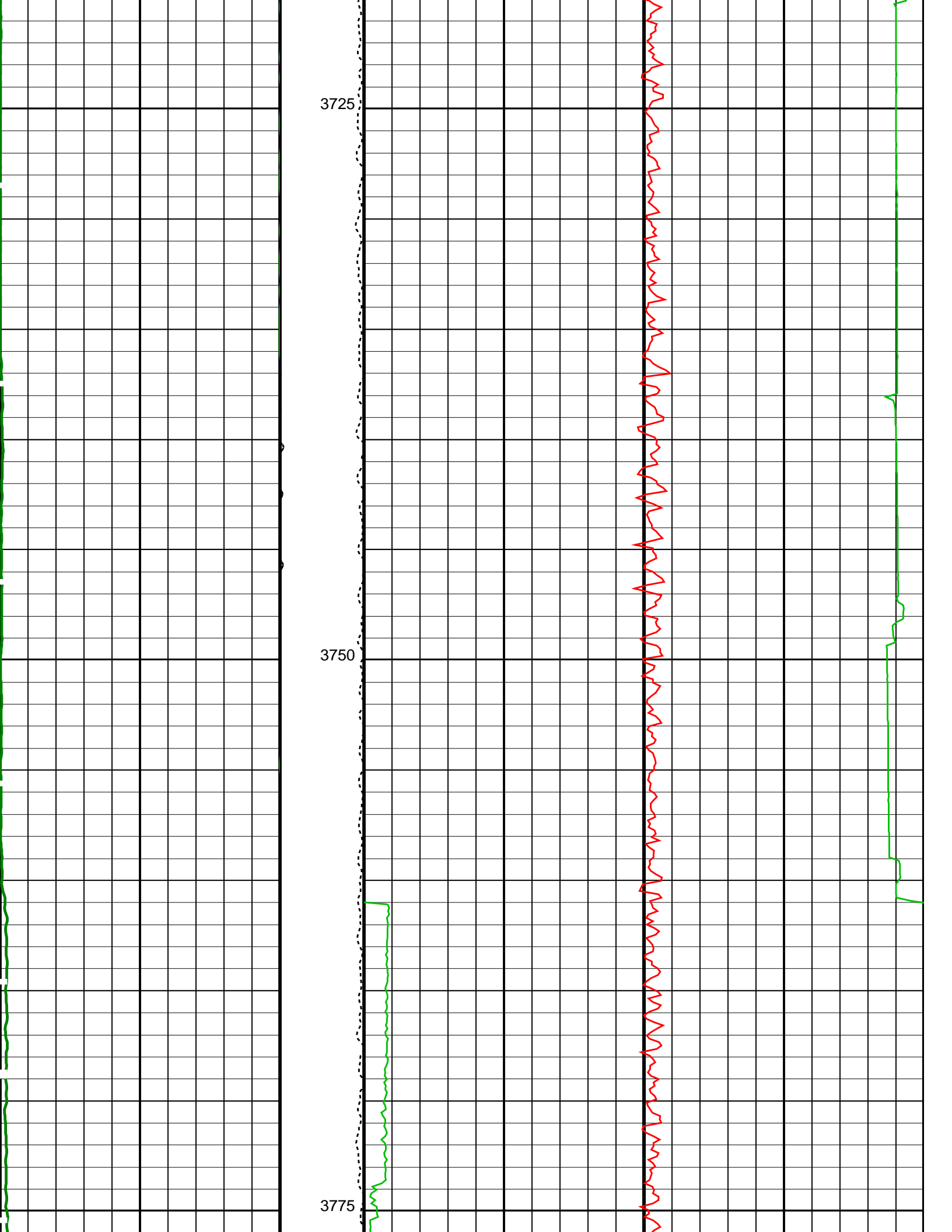
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HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

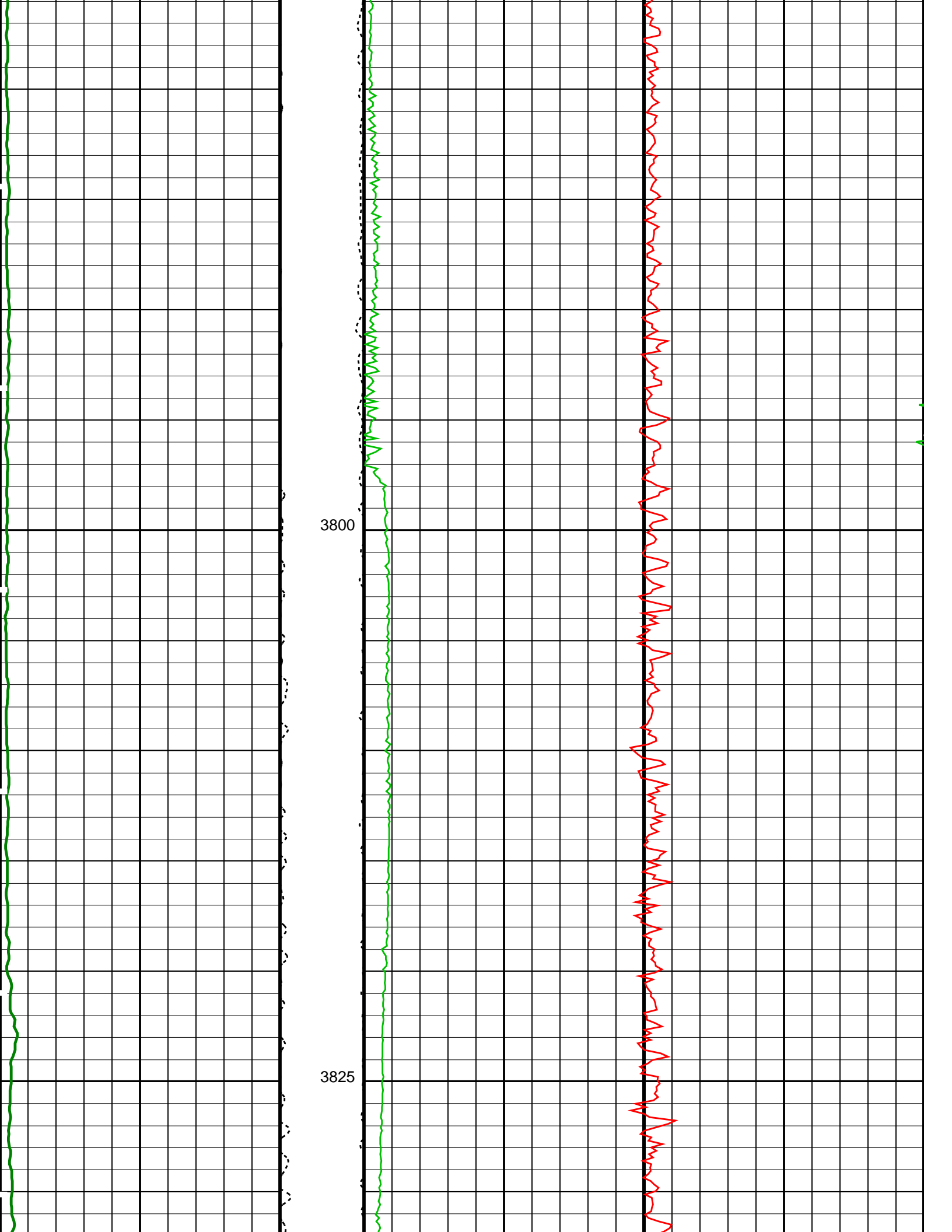
PIP SUMMARY

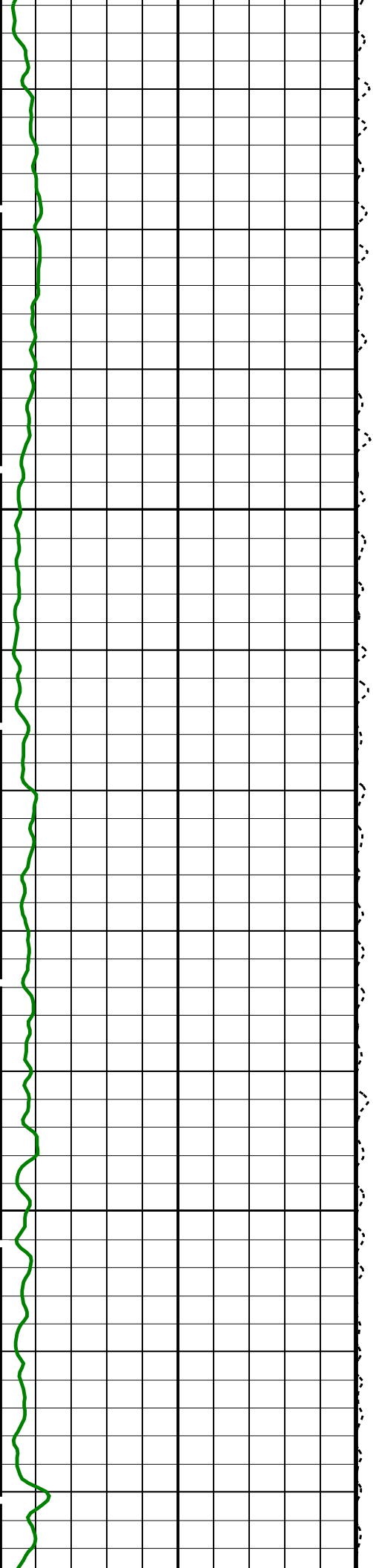
Time Mark Every 60 S





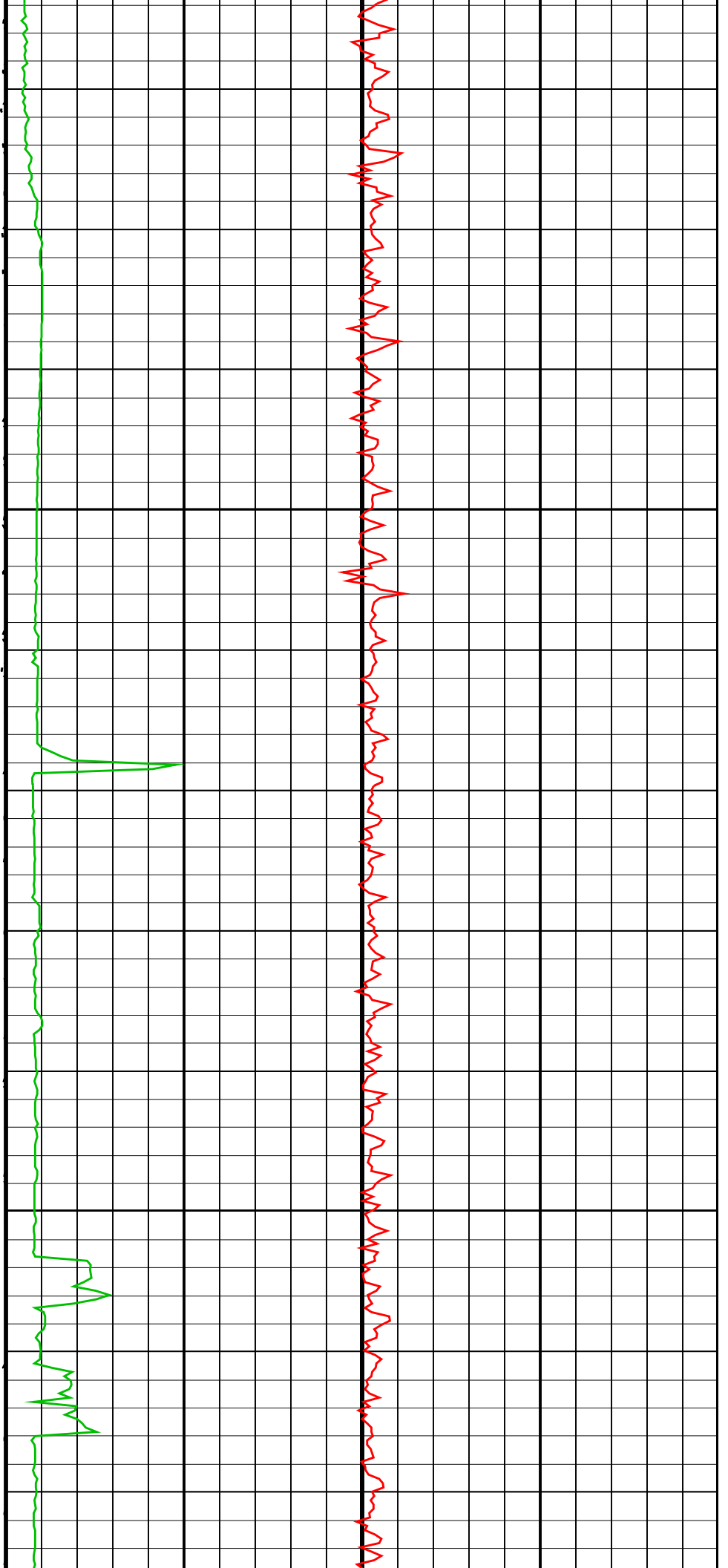


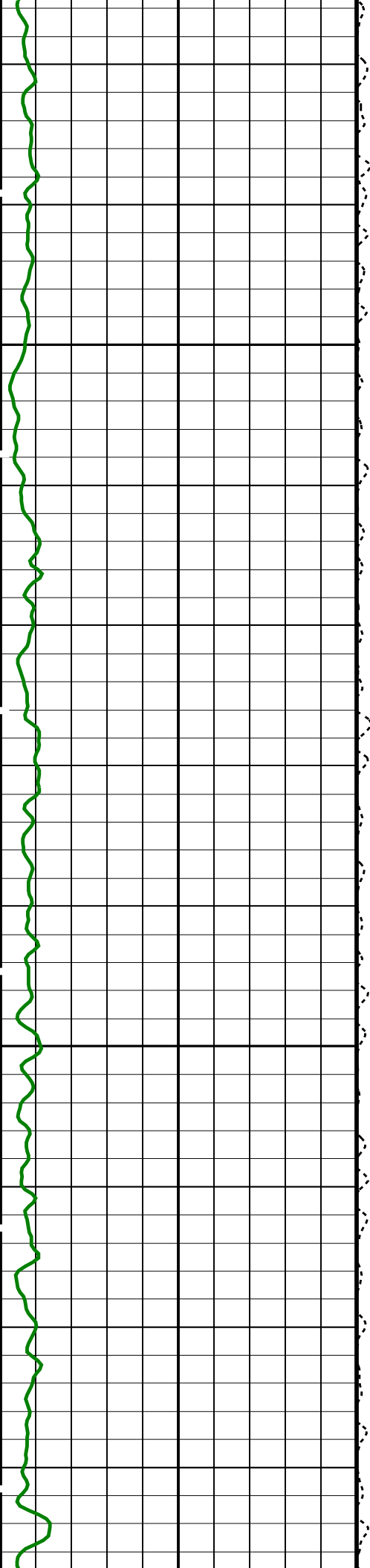




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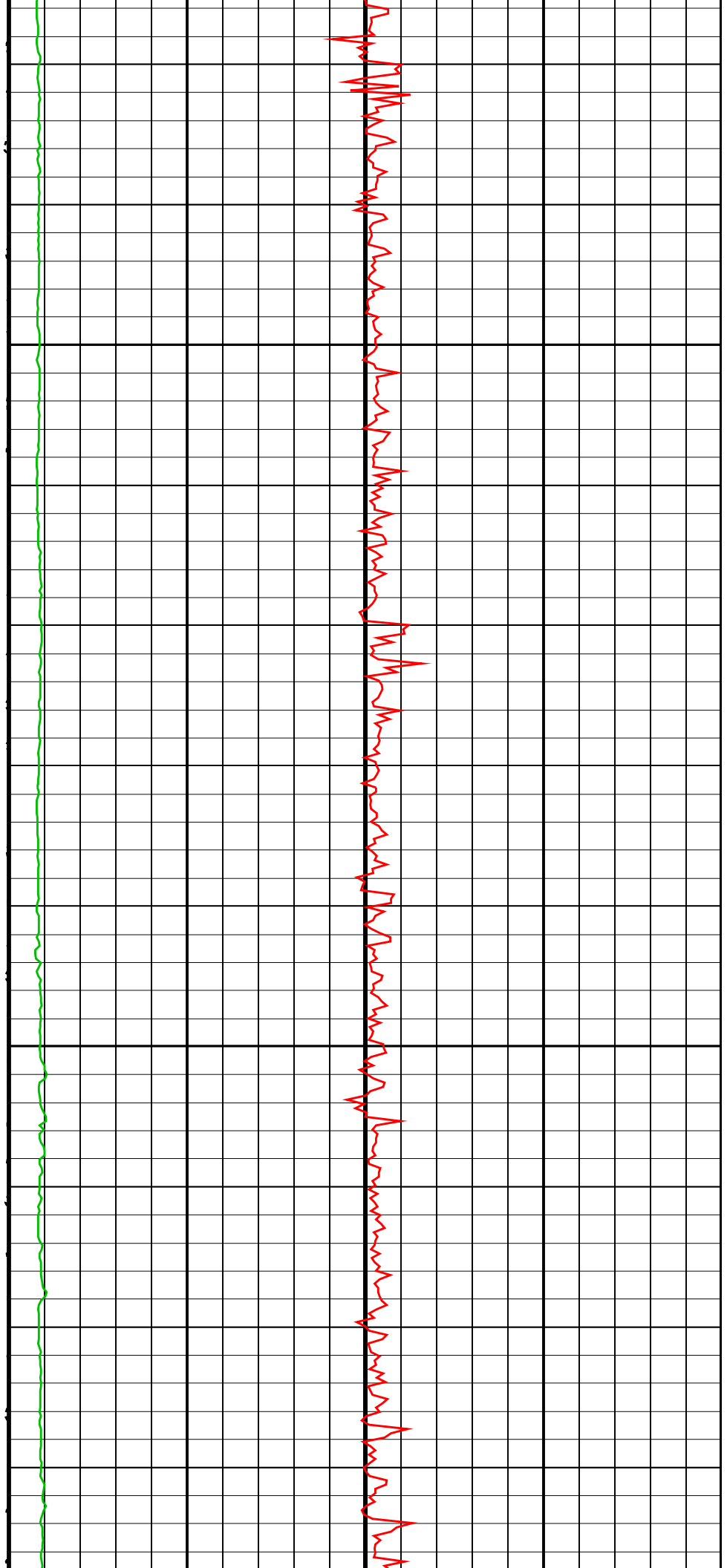
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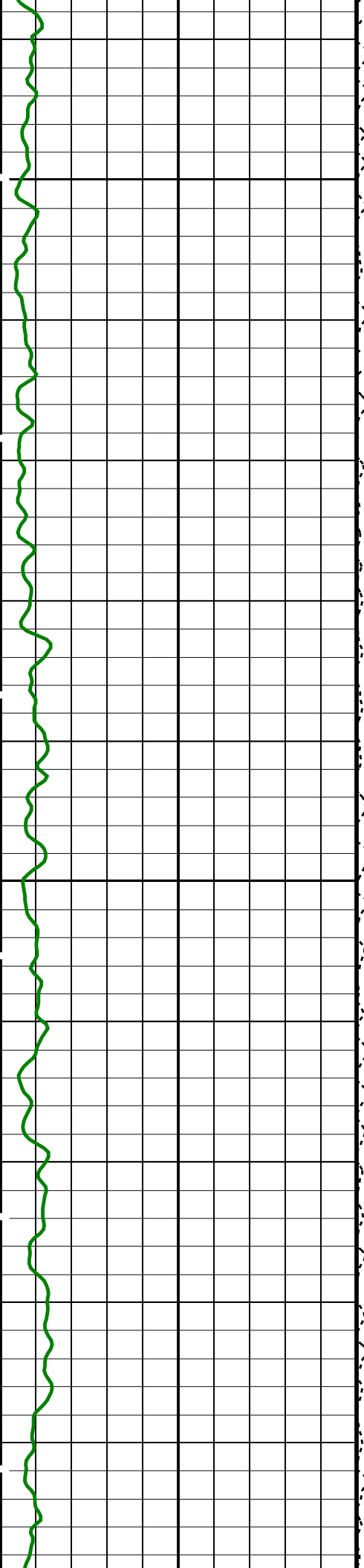




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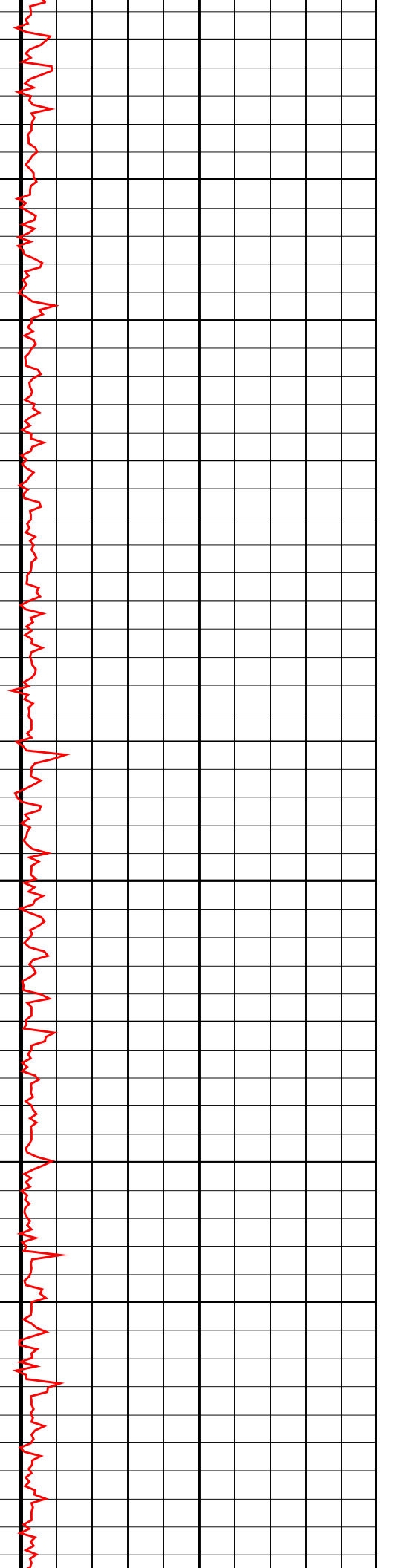
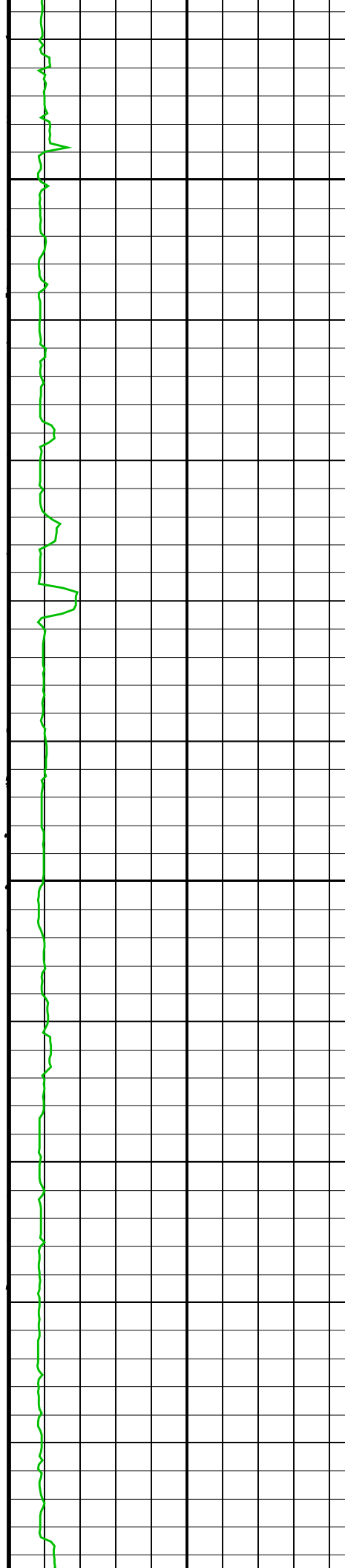
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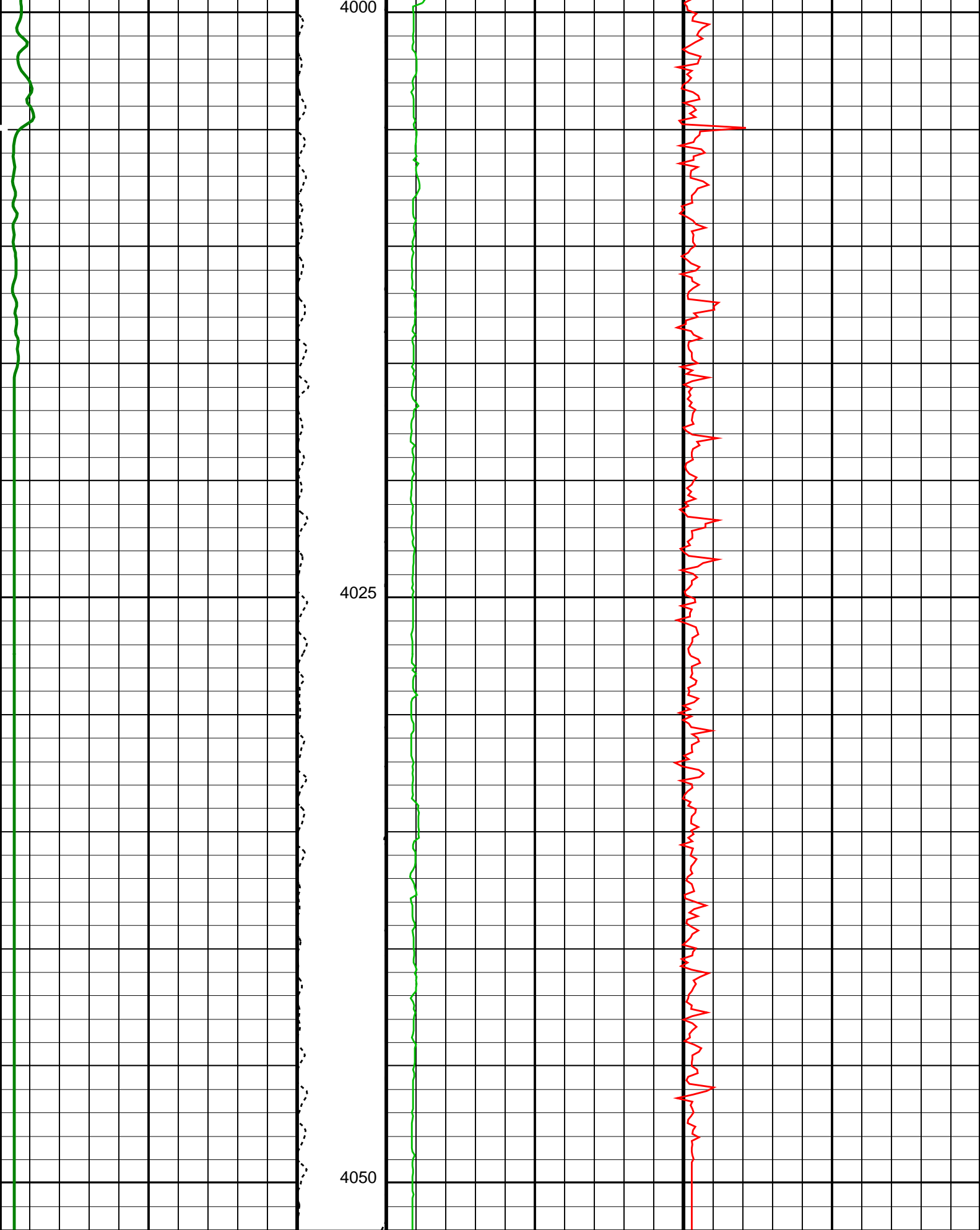




3950

3975





HNGS Spectroscopy Gamma Ray
(HSGR)
(GAPI) 150

Tension
(TENS)
(LBF) 5000

Axial Acceleration (MSSZACC_LDEO)
(M/S2)

20

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	0.0242776	
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	0.828271	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.789142	
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	1.03	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 03:15

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_012LUP	PRODUCER	28-Jul-2022 03:14	4052.0 M	3641.6 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_013PUP	FN:11	PRODUCER	28-Jul-2022 03:15
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First Up Pass

Company: International Ocean Discovery Program

Well: Expedition 393, Site U1560B

Output DLIS Files

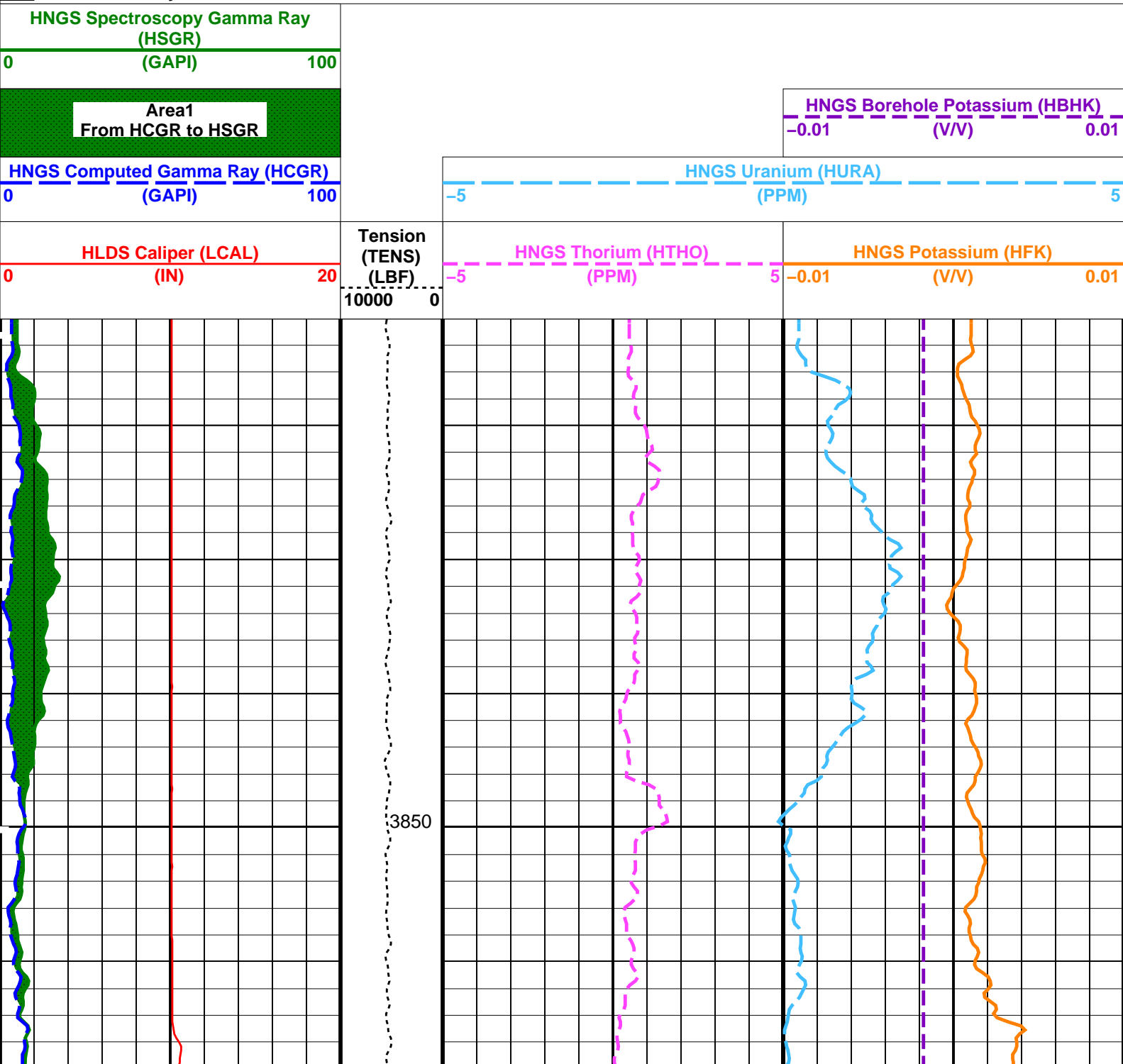
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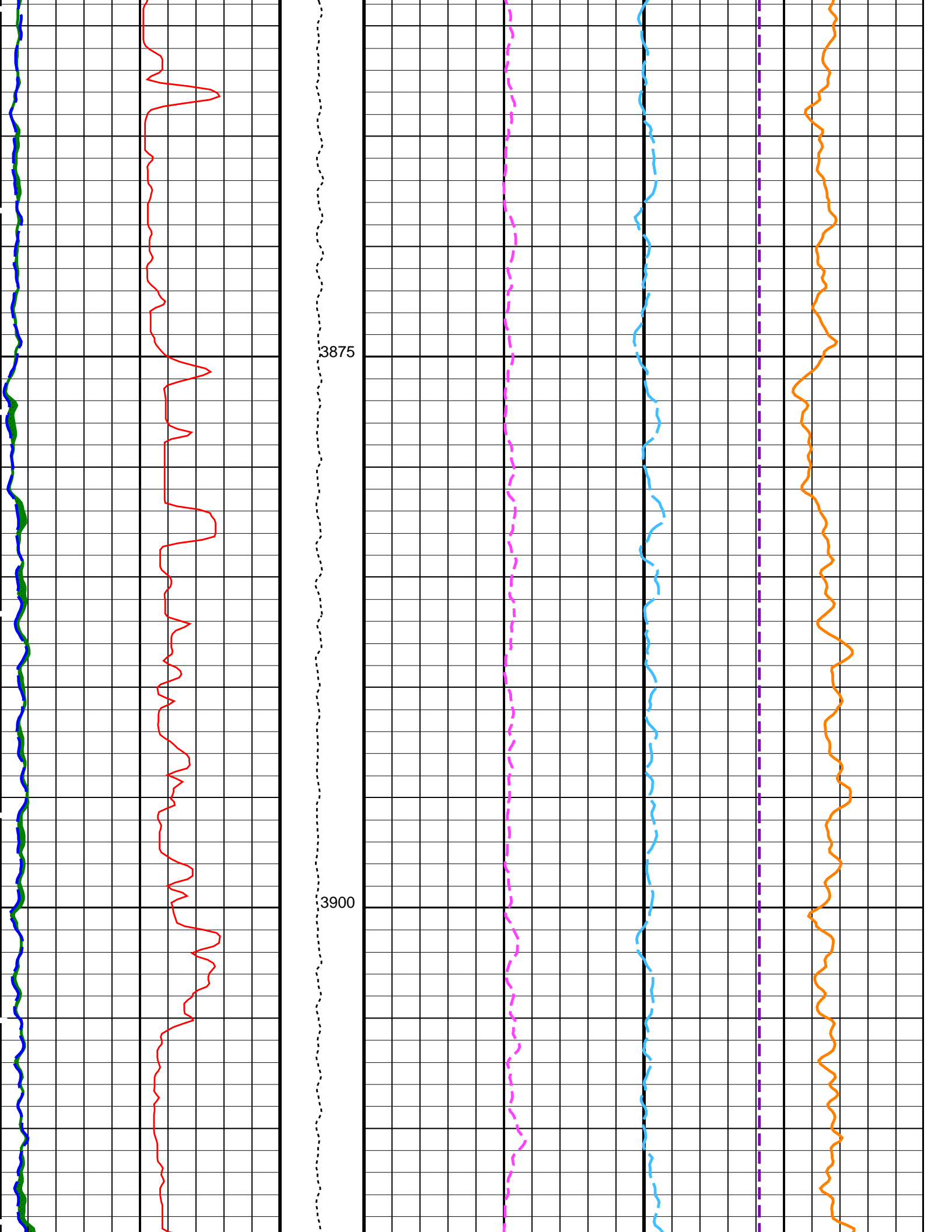
OP System Version: 19C0-187

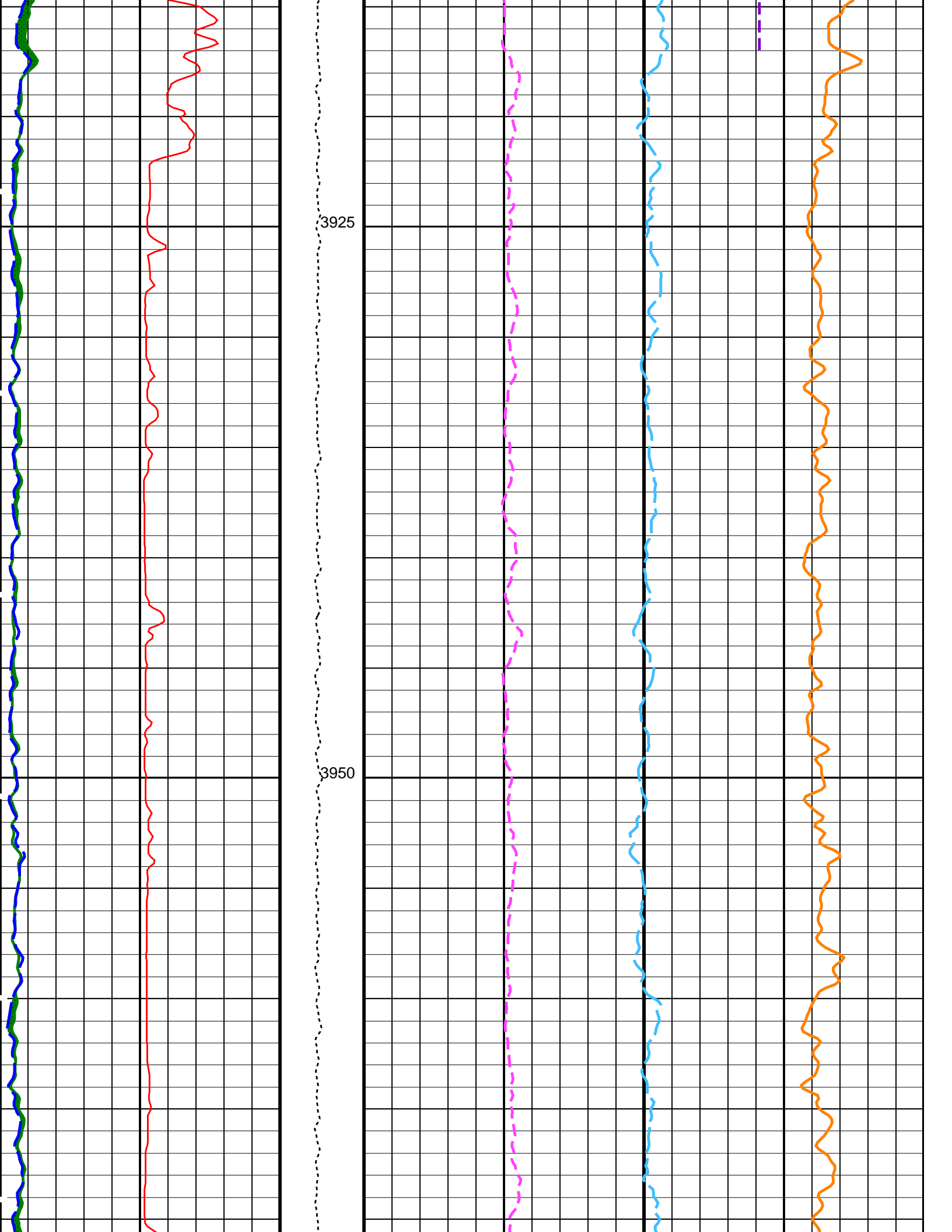
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APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

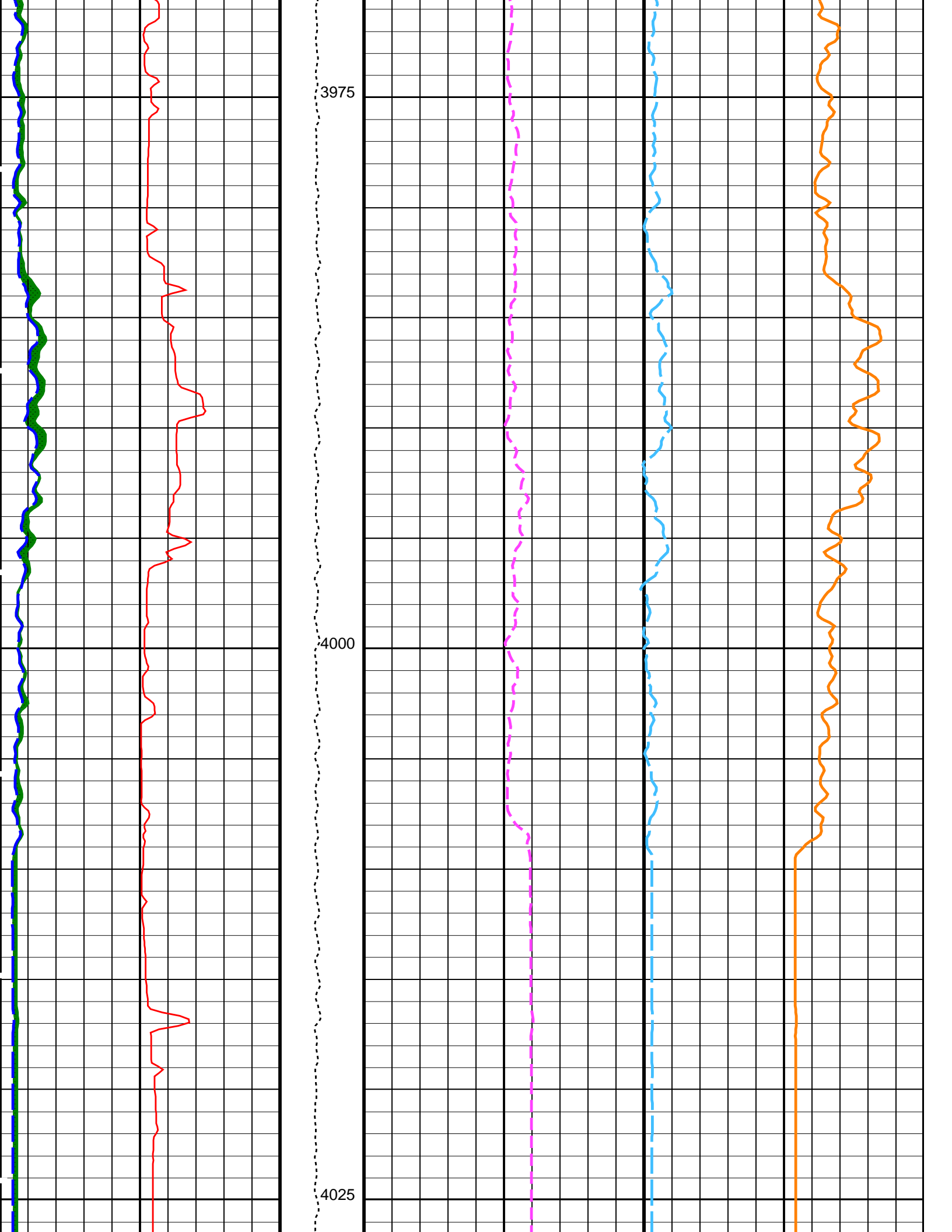
PIP SUMMARY

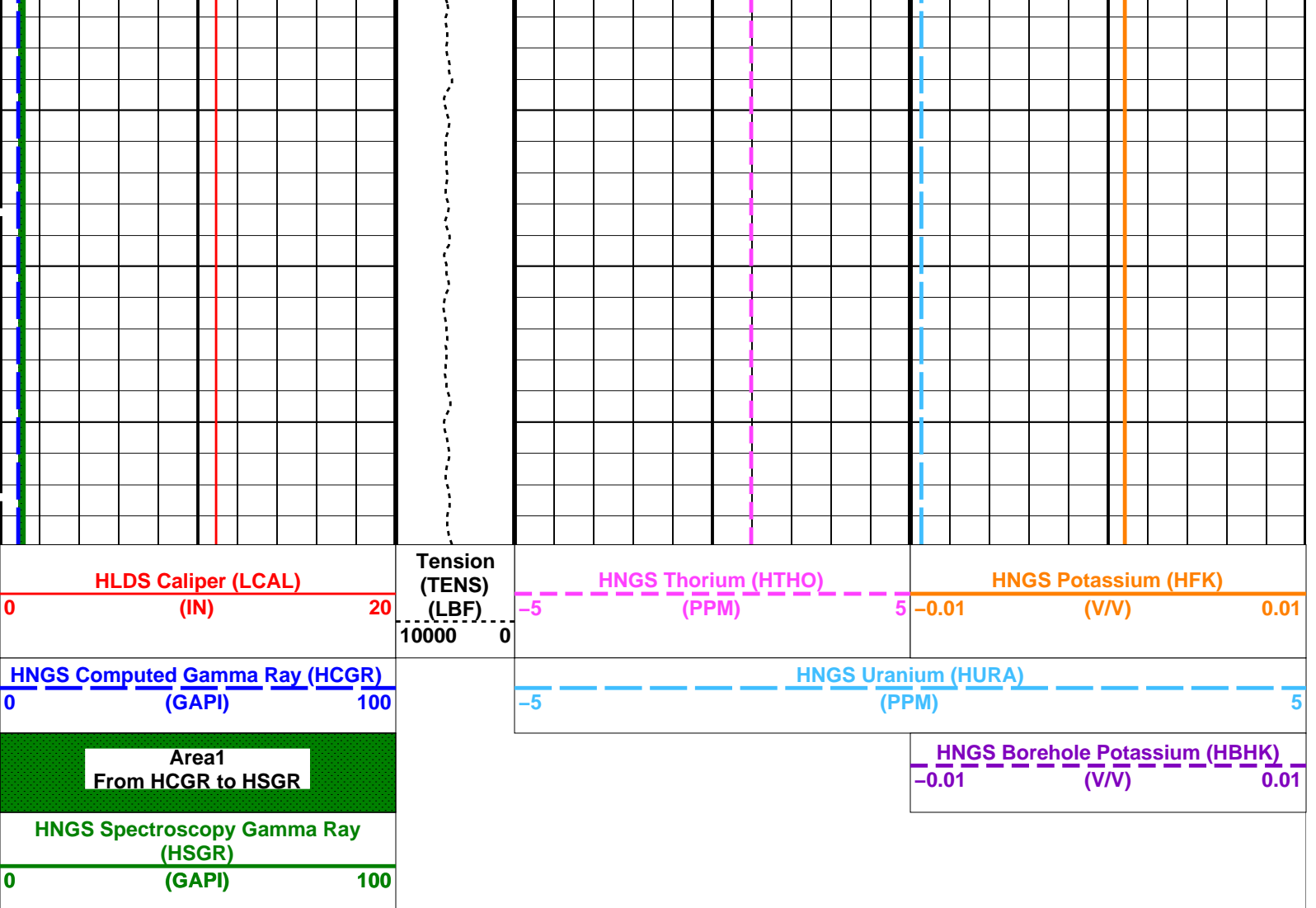
Time Mark Every 60 S











PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
BHS	HRLT-B: High Resolution Laterolog Array - B	
GCSE	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
BHS	APS-C: Accelerator-Porosity Tool	
GCSE	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
BAR1	HNGS-BA: Hostile Natural Gamma Ray Sonde	
BAR2	HNGS Detector 1 Barite Constant	1
BHK	HNGS Detector 2 Barite Constant	1
BHS	HNGS Borehole Potassium Correction Concentration	0
CSD1	Borehole Status	OPEN
CSD2	Inner Casing Outer Diameter	0 IN
CSW1	Outer Casing Outer Diameter	0 IN
CSW2	Inner Casing Weight	0 LB/F
DBCC	Outer Casing Weight	0 LB/F
GCSE	HNGS Barite Constant Correction Flag	NONE
H1P	Generalized Caliper Selection	LCAL
H2P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
HABK	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HALF	HNGS Borehole Potassium Running Average	0.000431074
HCRB	HNGS Alpha Filter Length	60 IN
HMWM	HNGS Apply Borehole Potassium Correction	NONE
HNPE	Mud Weighting Material	NATU
S1BI	HNGS Processing Enable	YES
S2BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
TPOS	HNGS Standard Gamma-Ray Correction Flag	YES
VBA1	Tool Position	ECCE
VBA2	HNGS Detector 1 Variable Barite Factor Running Average	0.587963
	HNGS Detector 2 Variable Barite Factor Running Average	0.337471
BHS	EDTC-B: Enhanced DTS Cartridge	
	Borehole Status	OPEN

OP System Version: 19C0-187

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

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_010LUP	FN:9	PRODUCER	28-Jul-2022 01:50
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Output DLIS Files

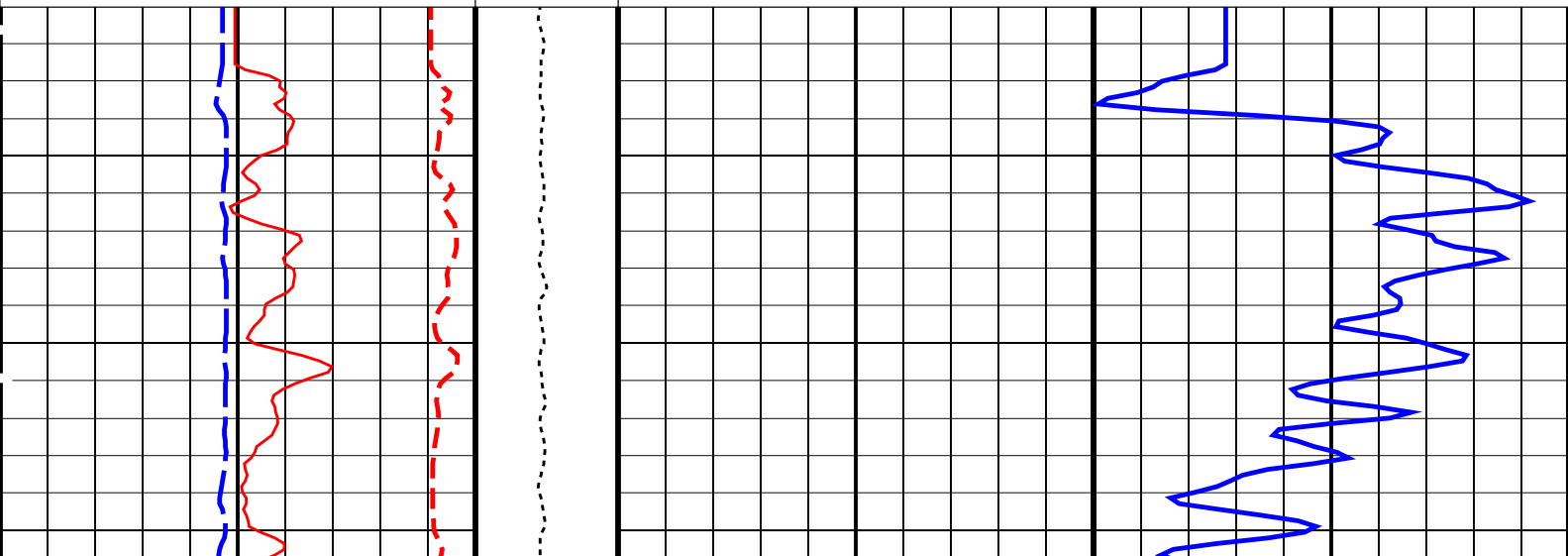
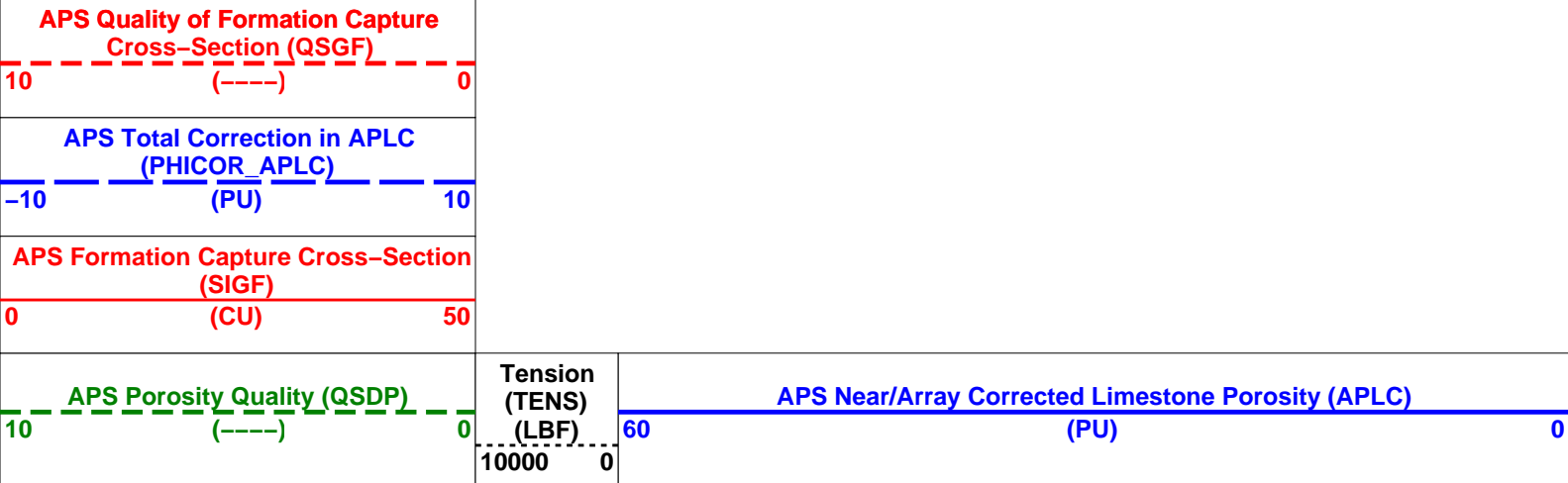
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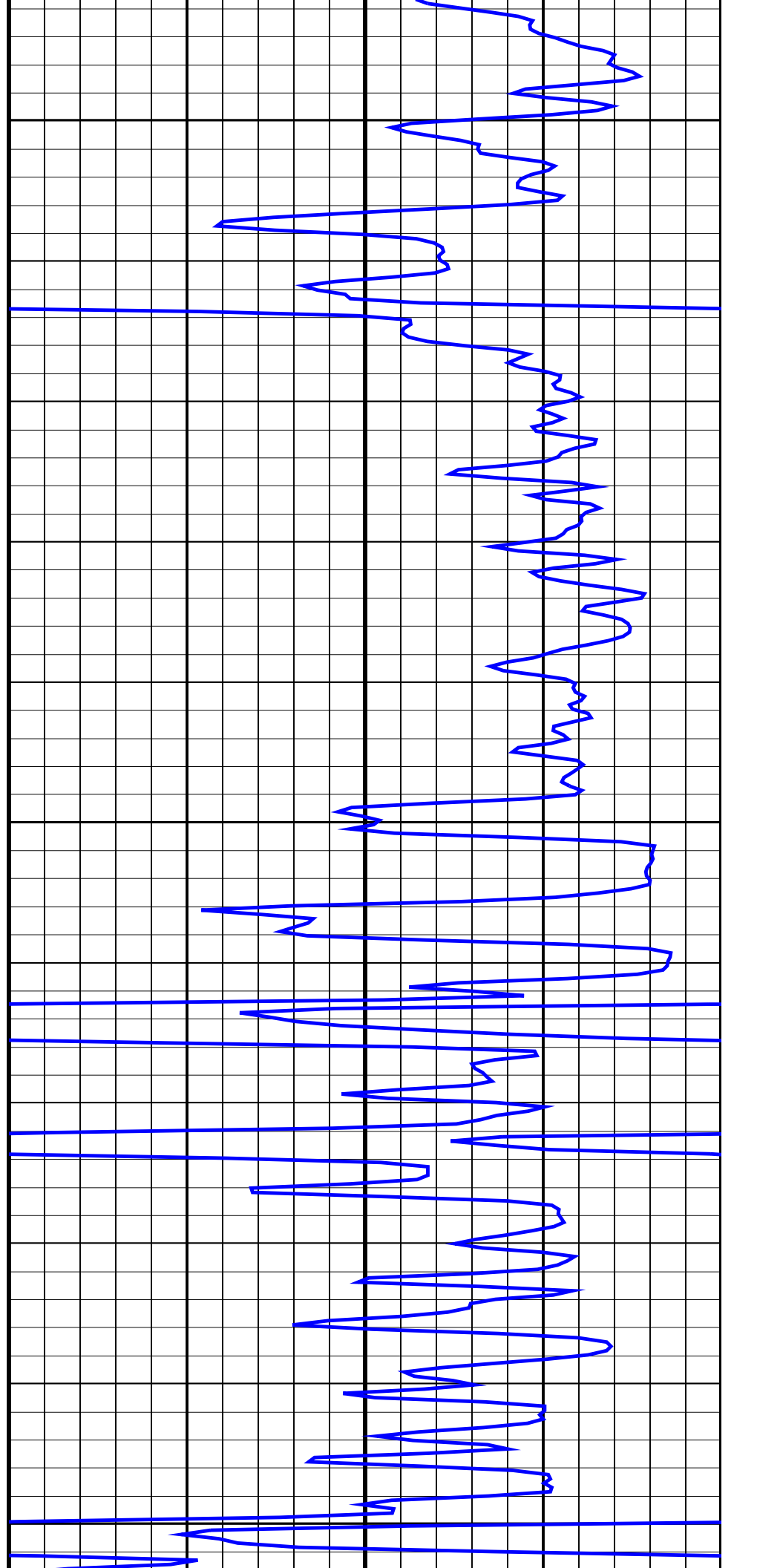
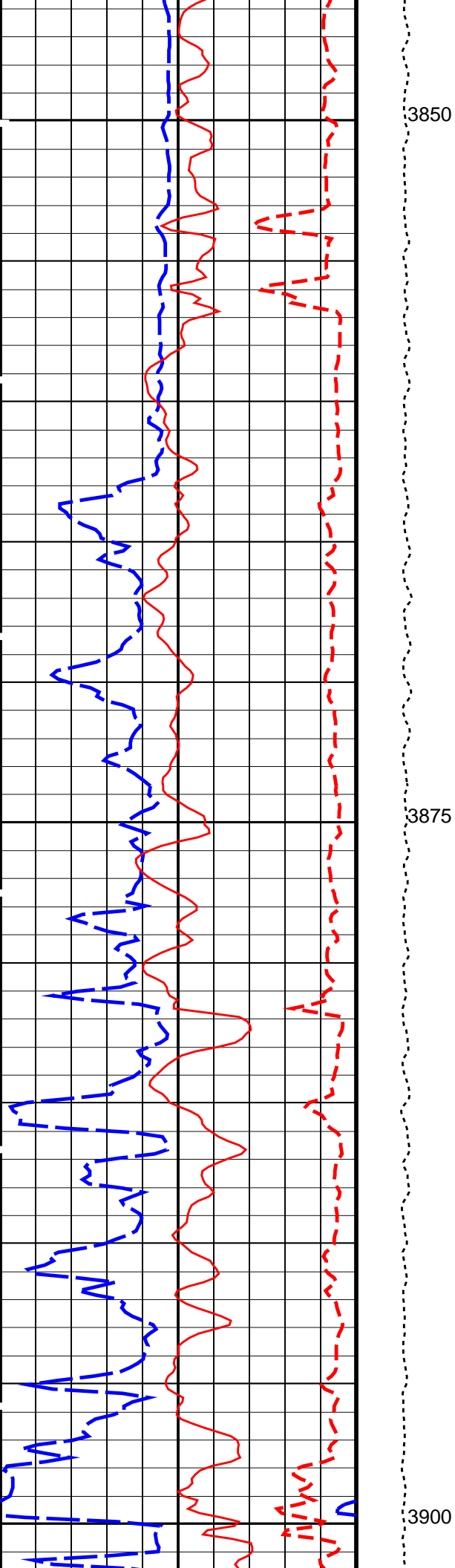
OP System Version: 19C0-187

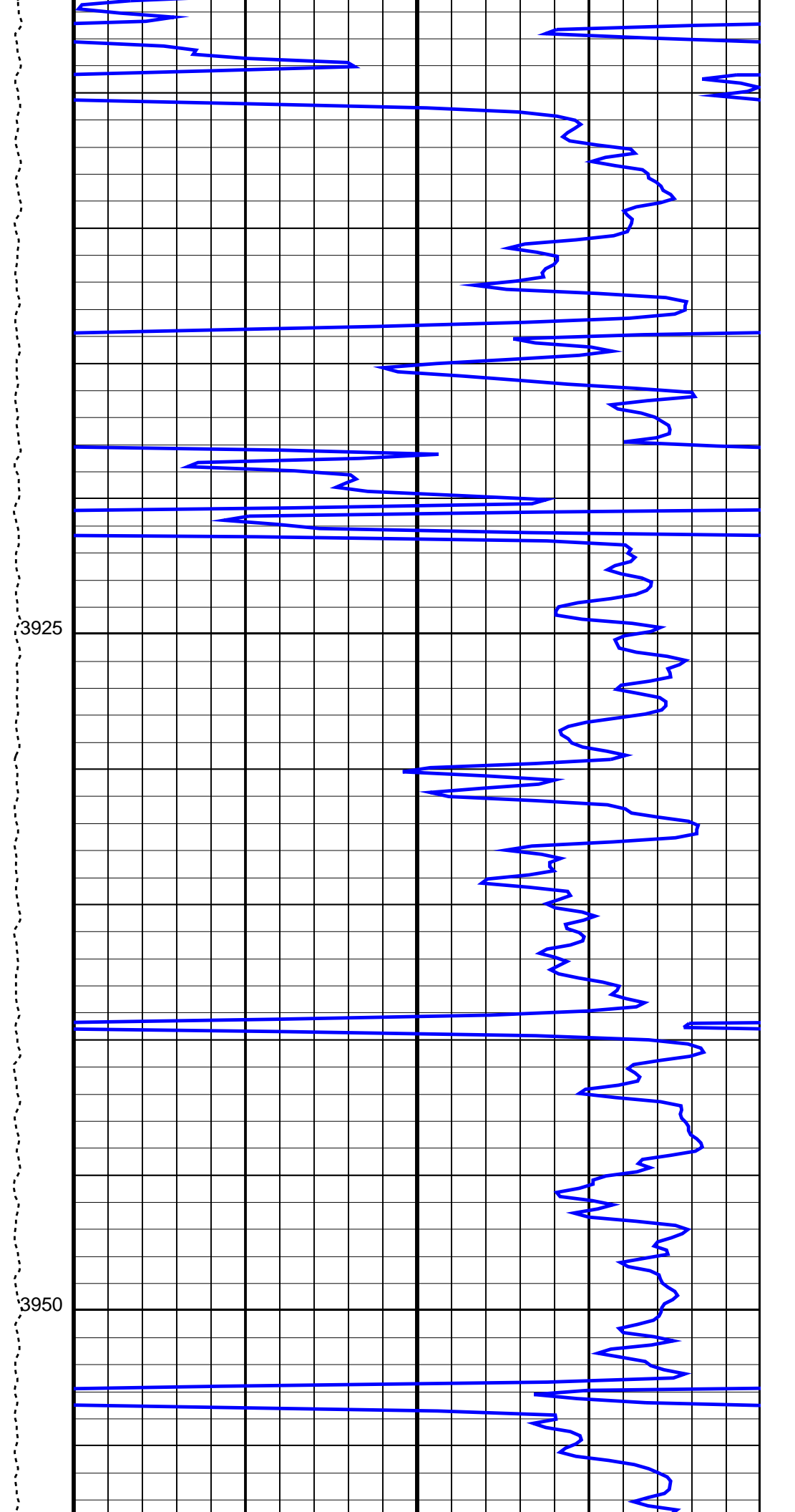
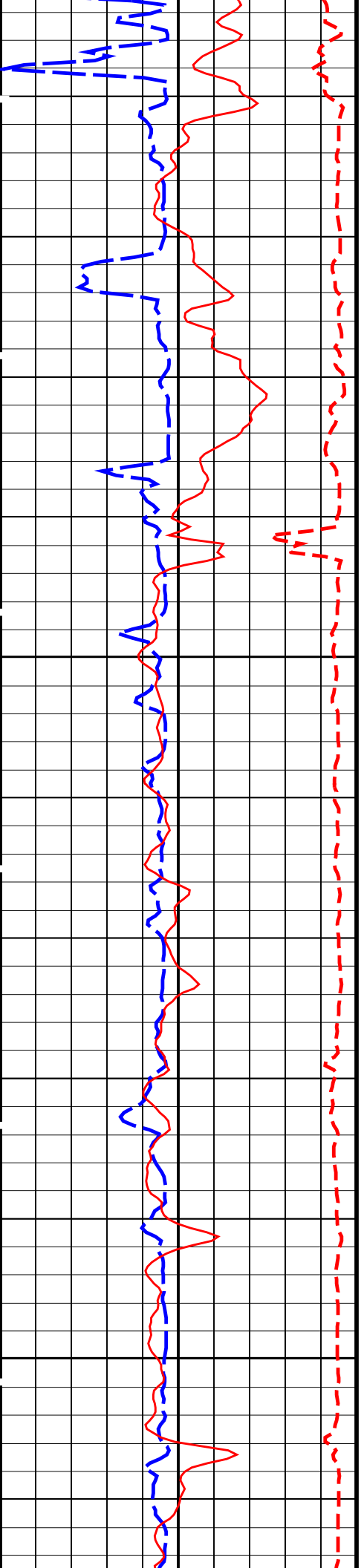
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HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

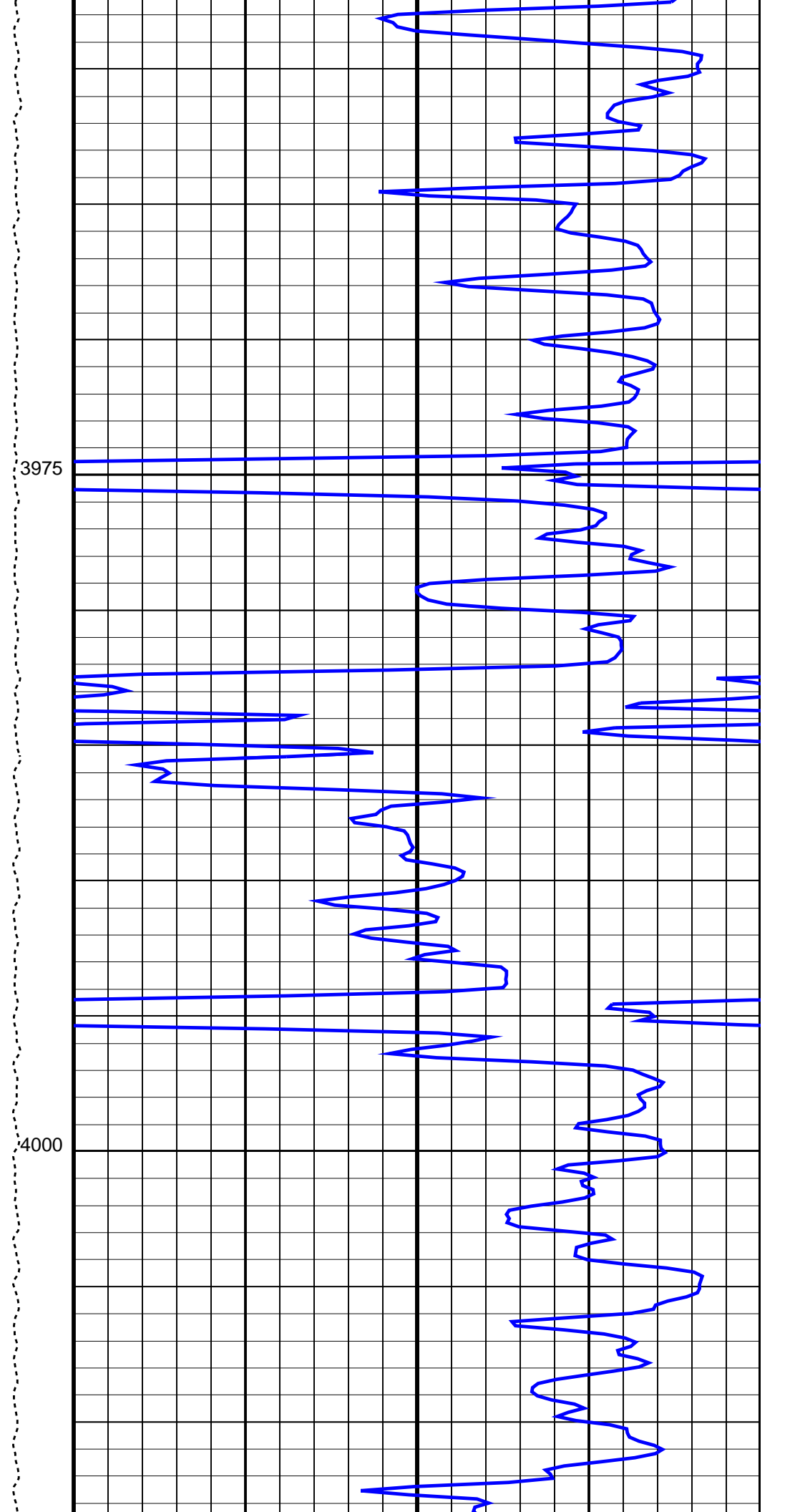
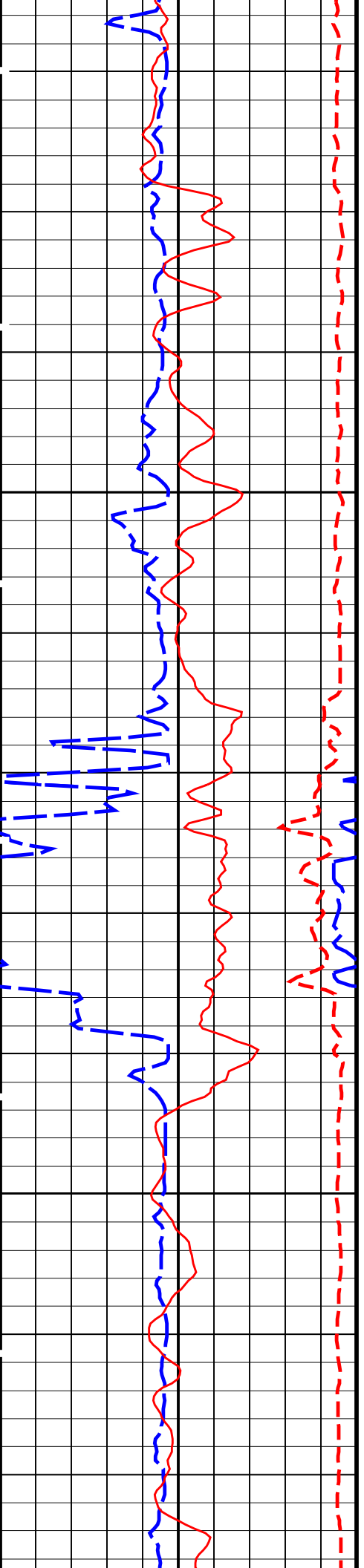
PIP SUMMARY

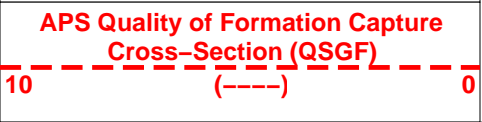
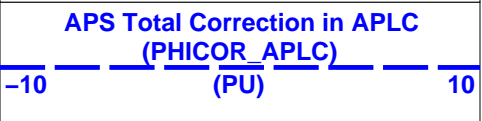
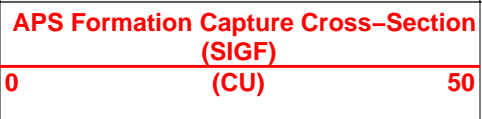
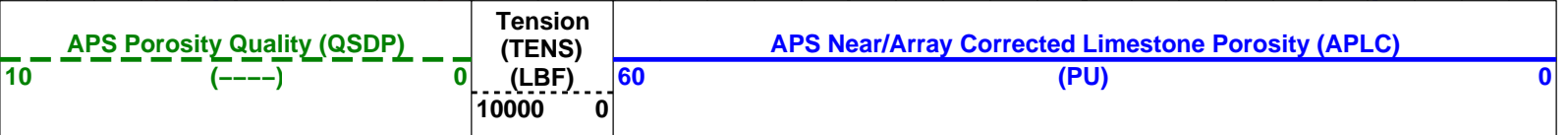
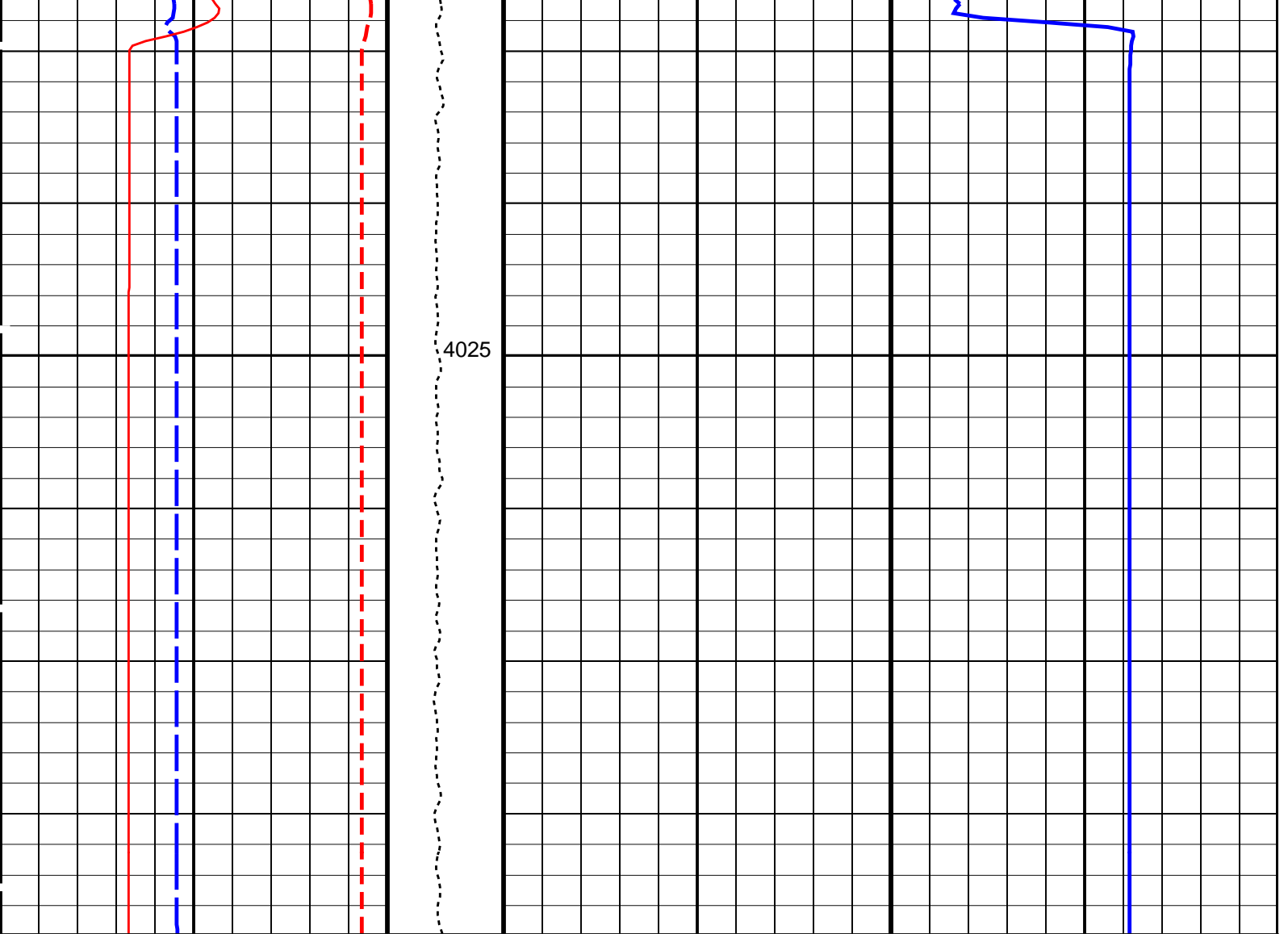
Time Mark Every 60 S











PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	20 DEGC
GCSE	Generalized Caliper Selection	LCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
SHT	Surface Hole Temperature	20 DEGC

CHT	HLDS: Hostile Litho-Density Sonde	Carage Hole Temperature	20	DEGC
DPPM	APS-C: Accelerator-Porosity Tool	Density Porosity Processing Mode	HIRS	
		APS Software Version	5	
AASD		APS Thermal and Array Detectors High Voltage Setting	1976.24	V
ADSO		APS Array Detectors Data Source Switch	Both	
AFSD		APS Far Detector High Voltage Setting	2067.55	V
AHCS		APS Holesize Correction Source	BS	
AHSS		APS Holesize Correction Switch	ON	
AMTY		APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD		APS Near Detector High Voltage Setting	1737.8	V
ASOS		APS Standoff Correction Switch	ON	
ATSS		APS Temperature-Pressure-Salinity Correction Switch	ON	
BHFL_APS		APS TNPH Borehole Fluid Type	WATER	
BHS		Borehole Status	OPEN	
BHT		Bottom Hole Temperature (used in calculations)	20	DEGC
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	0.018227	DC/M
GRSE		Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE		Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS		APS TNPH Hole Size Correction Option	YES	
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	1.08341	
NFRC		APS Near/Far Calibration Ratio	0.942369	
PTCO_APS		APS TNPH Pressure/Temperature Correction Option	YES	
SHT		Surface Hole Temperature	20	DEGC
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)	20	DEGC
GCSE		Generalized Caliper Selection	LCAL	
GDEV		Average Angular Deviation of Borehole from Normal	0	DEG
GGRD		Geothermal Gradient	0.018227	DC/M
GRSE		Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE		Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR		Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT		Surface Hole Temperature	20	DEGC
	EDTC-B: Enhanced DTS Cartridge			
BHS		Borehole Status	OPEN	
BHT		Bottom Hole Temperature (used in calculations)	20	DEGC
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	0.018227	DC/M
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	20	DEGC
	System and Miscellaneous			
BS		Bit Size	9.875	IN
BSAL		Borehole Salinity	38000.00	PPM
CSIZ		Current Casing Size	10.750	IN
CWEI		Casing Weight	168.00	LB/F
DFD		Drilling Fluid Density	1.03	G/C3
FLEV		Fluid Level	-50000.00	M
TD		Total Depth	10190.3	FT

Format: APSLiquidPorosity Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 01:50

OP System Version: 19C0-187

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

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_010LUP FN:9 PRODUCER 28-Jul-2022 01:50

Output DLIS Files

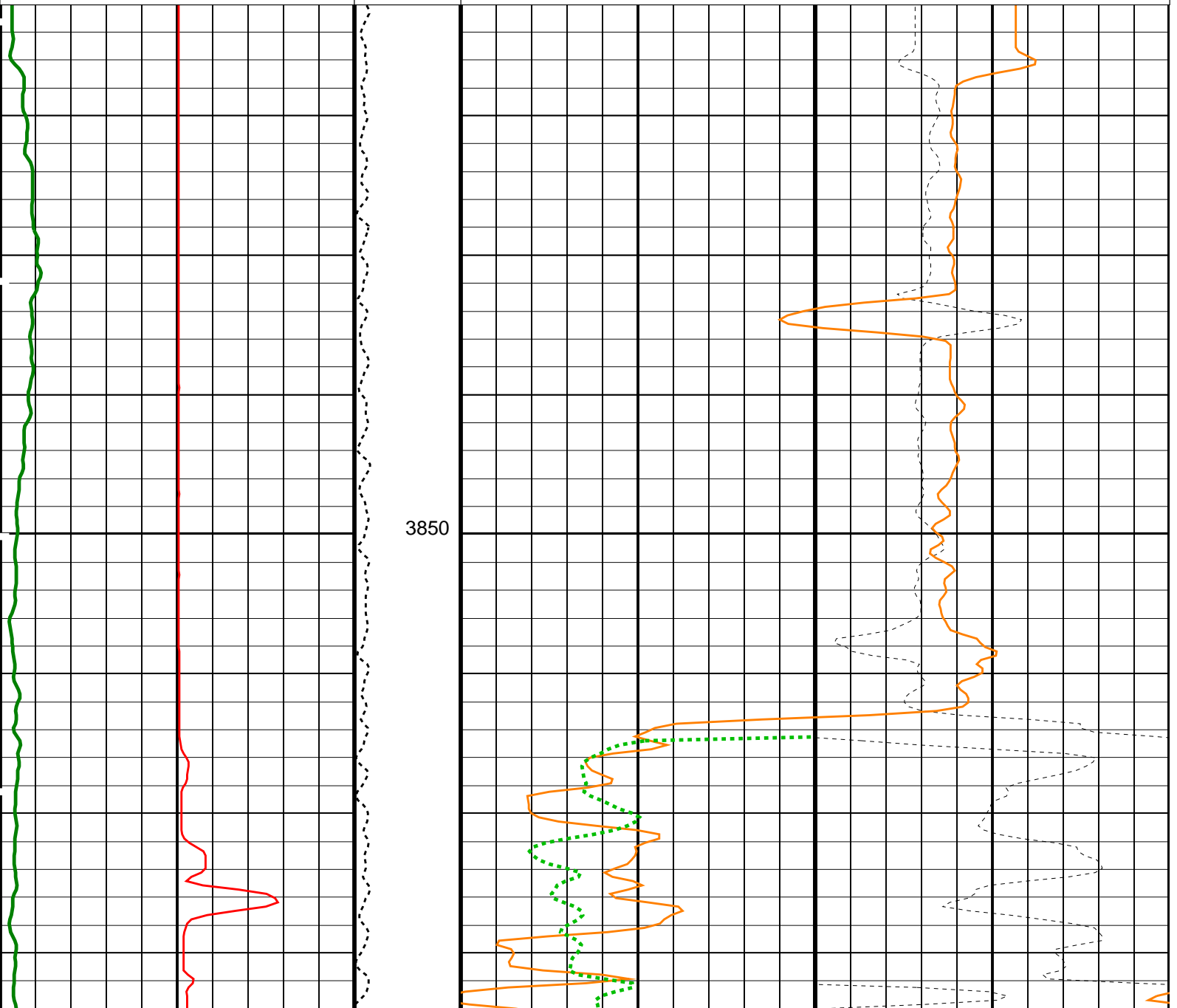
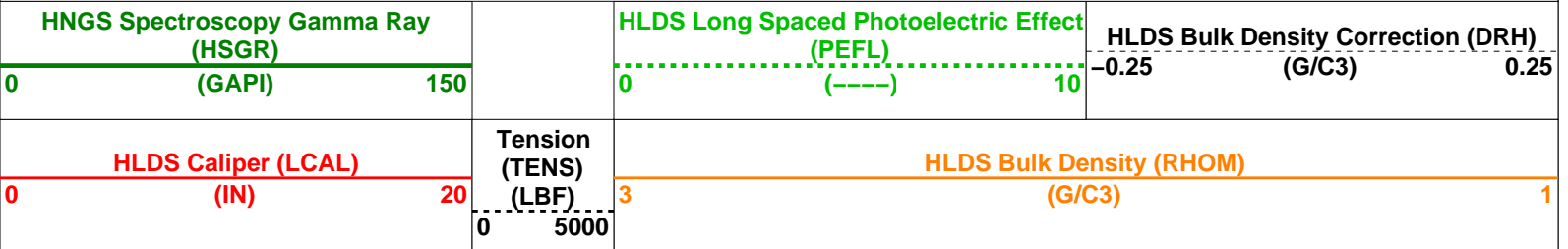
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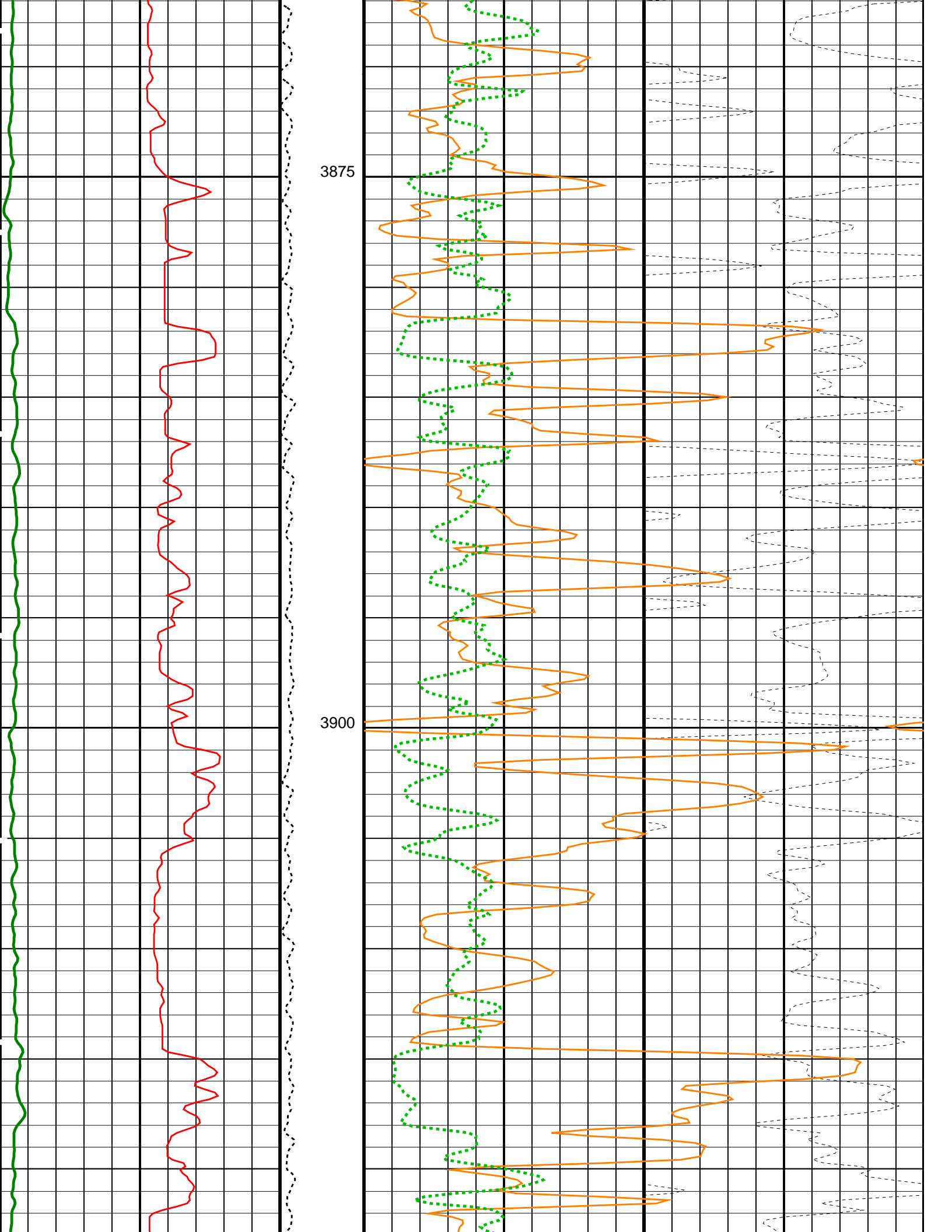
OP System Version: 19C0-187

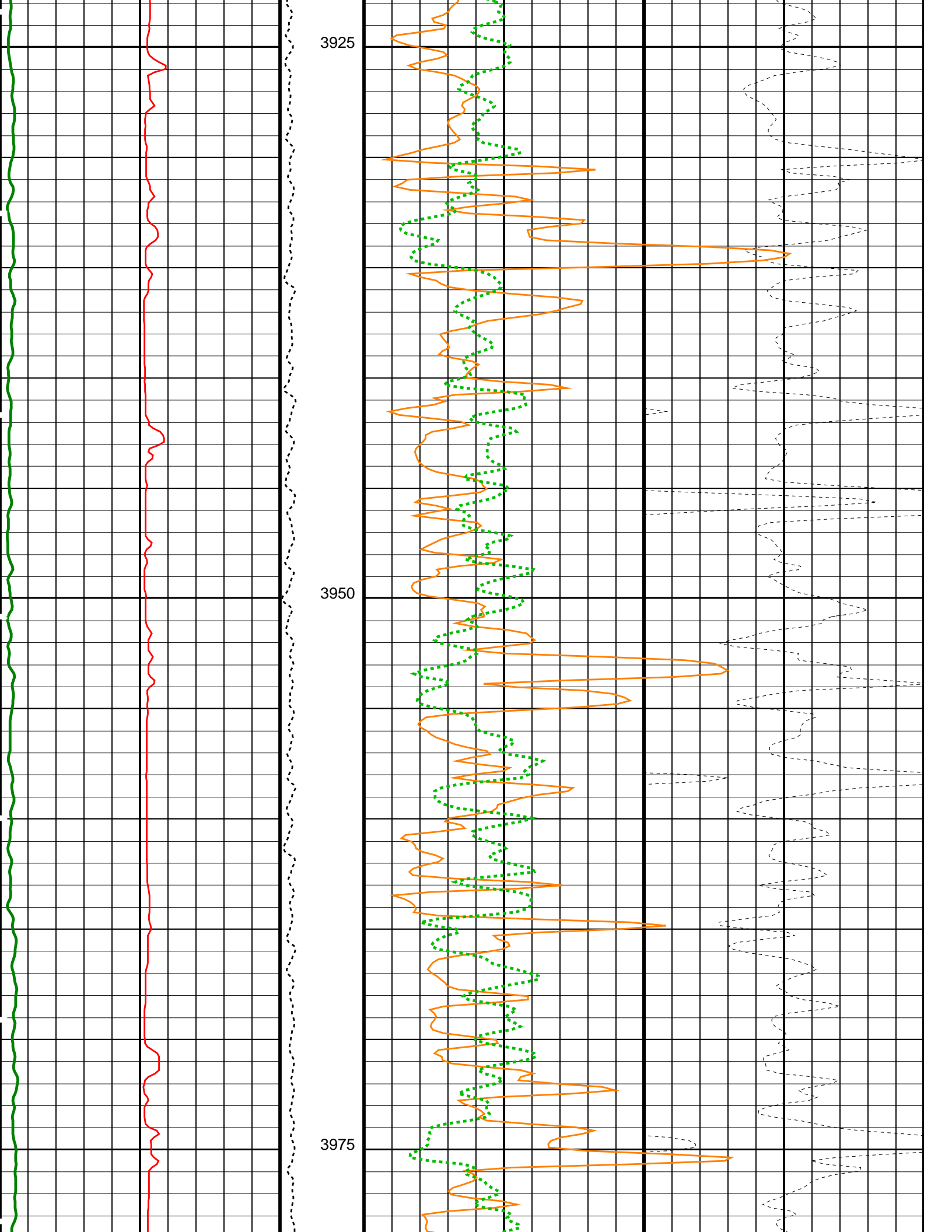
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APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

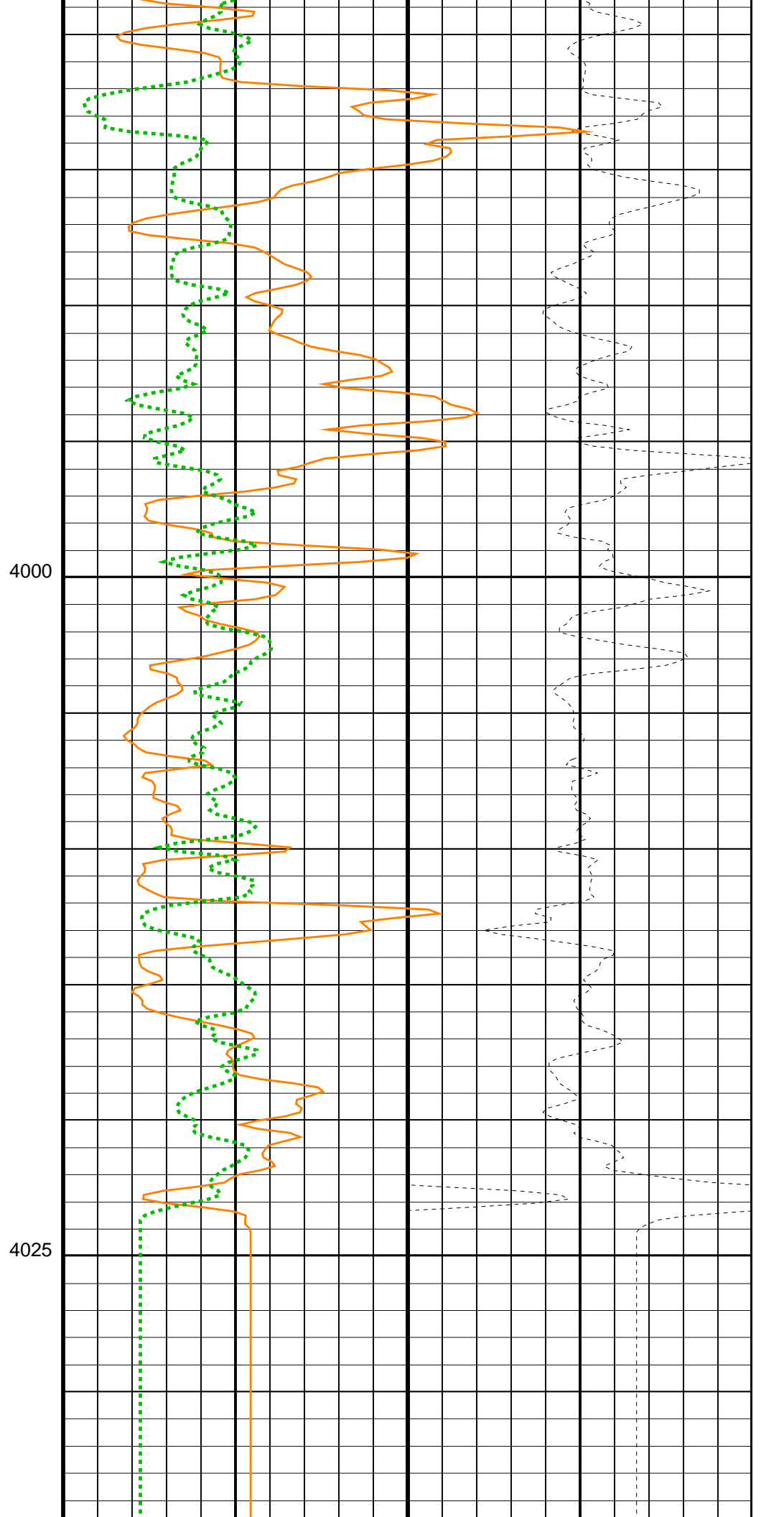
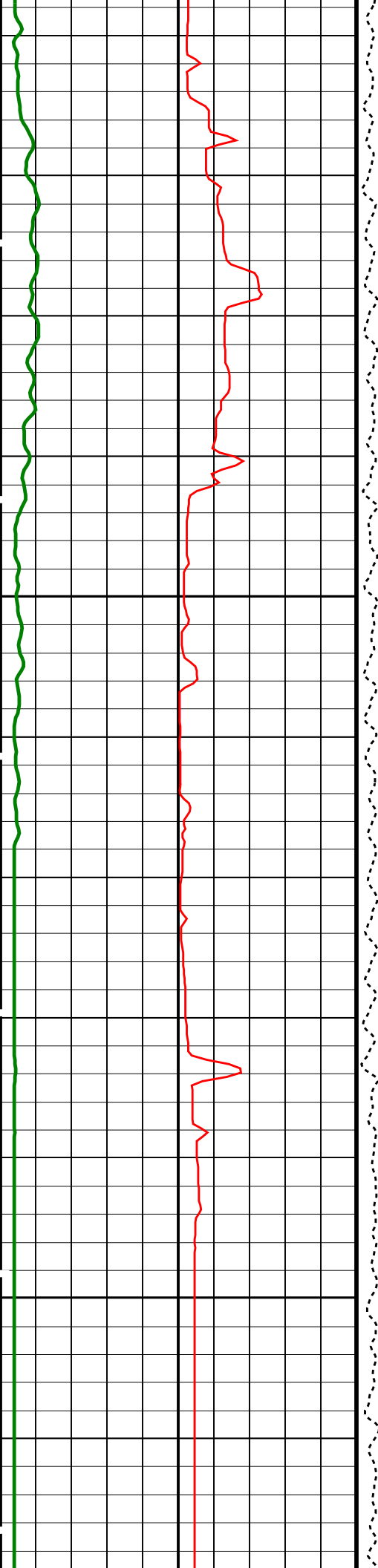
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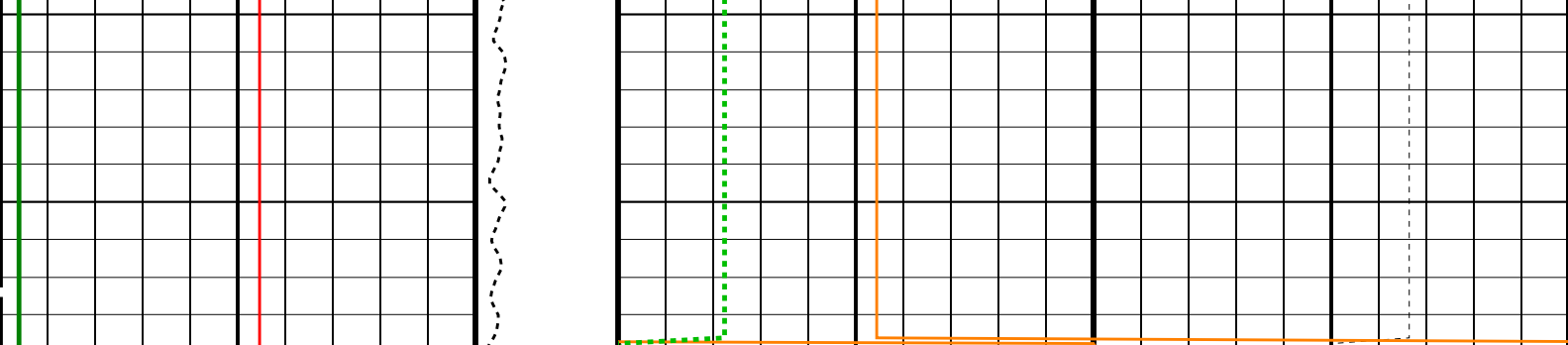
Time Mark Every 60 S











HLDS Caliper (LCAL) 0 (IN) 20	Tension (TENS) (LBF) 0 5000	HLDS Bulk Density (RHOM) 3 (G/C3) 1
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 150	HLDS Long Spaced Photoelectric Effect (PEFL) (----) 0 10	HLDS Bulk Density Correction (DRH) -0.25 (G/C3) 0.25

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
BHS	HRLT-B: High Resolution Laterolog Array - B	
GCSE	Borehole Status	OPEN
	Generalized Caliper Selection	LCAL
	HLDS: Hostile Litho-Density Sonde	
DHC	Density Hole Correction	CALIPER
DPPM	Density Porosity Processing Mode	HIRS
FD	Fluid Density	1 G/C3
LATC	HLDS Activation Correction	OFF
MDEN	Matrix Density	2.71 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	0.000431074
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	0.587963
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.337471
	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	1.03 G/C3

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

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_010LUP FN:9 PRODUCER 28-Jul-2022 01:50

Company: International Ocean Discovery Program Well: Expedition 393, Site U1560B

Output DLIS Files

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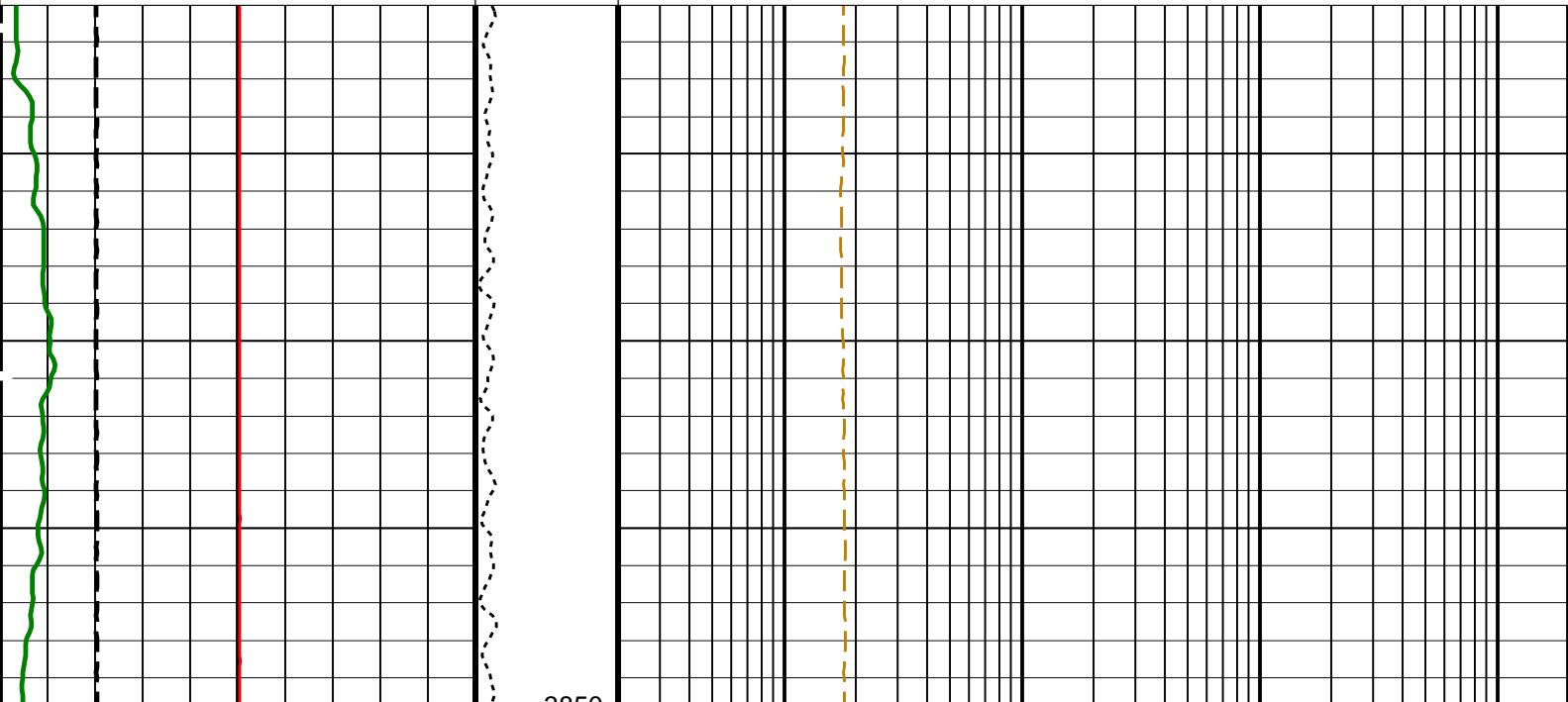
OP System Version: 19C0-187

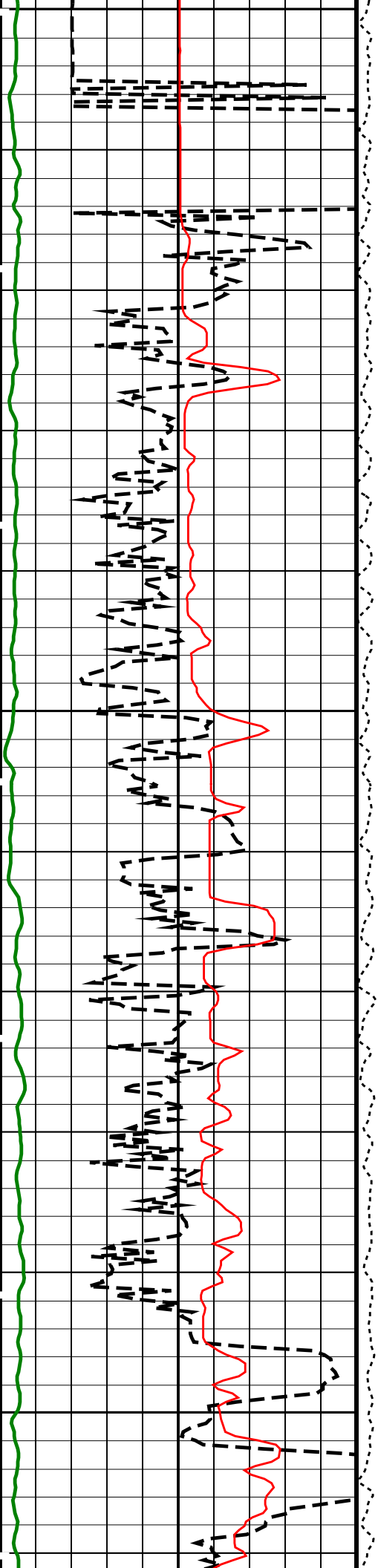
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HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S

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

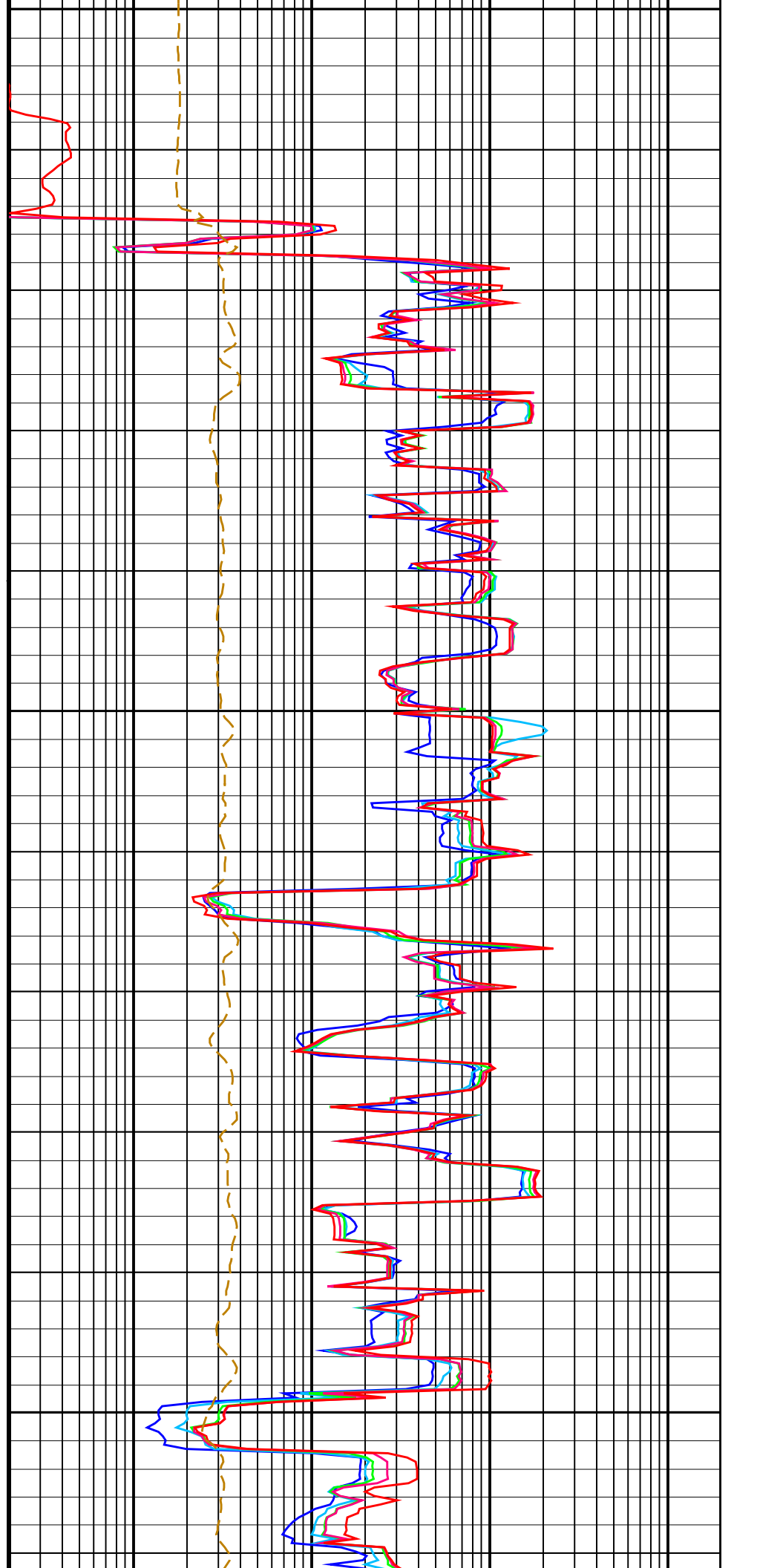


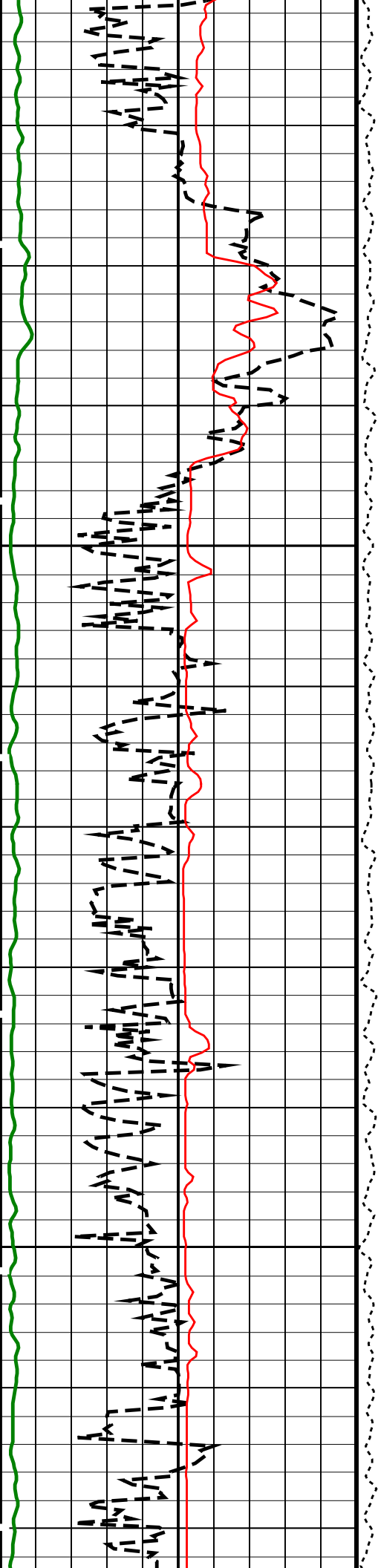


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3875

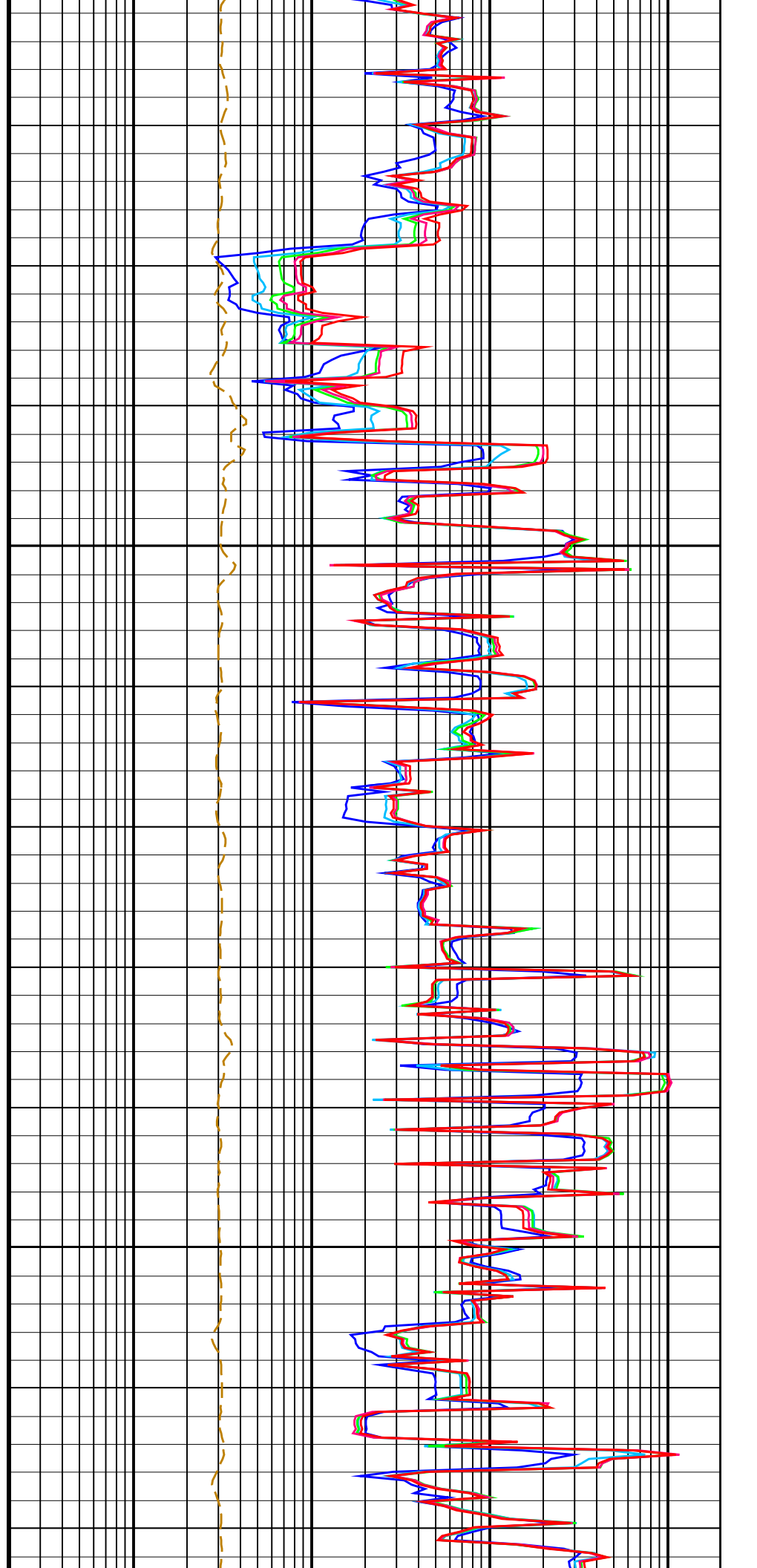
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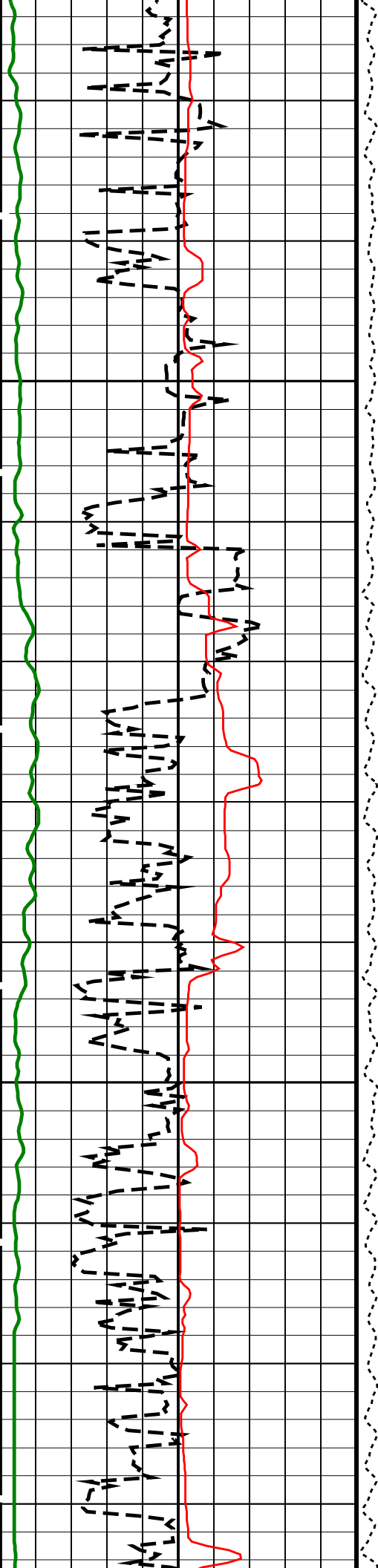




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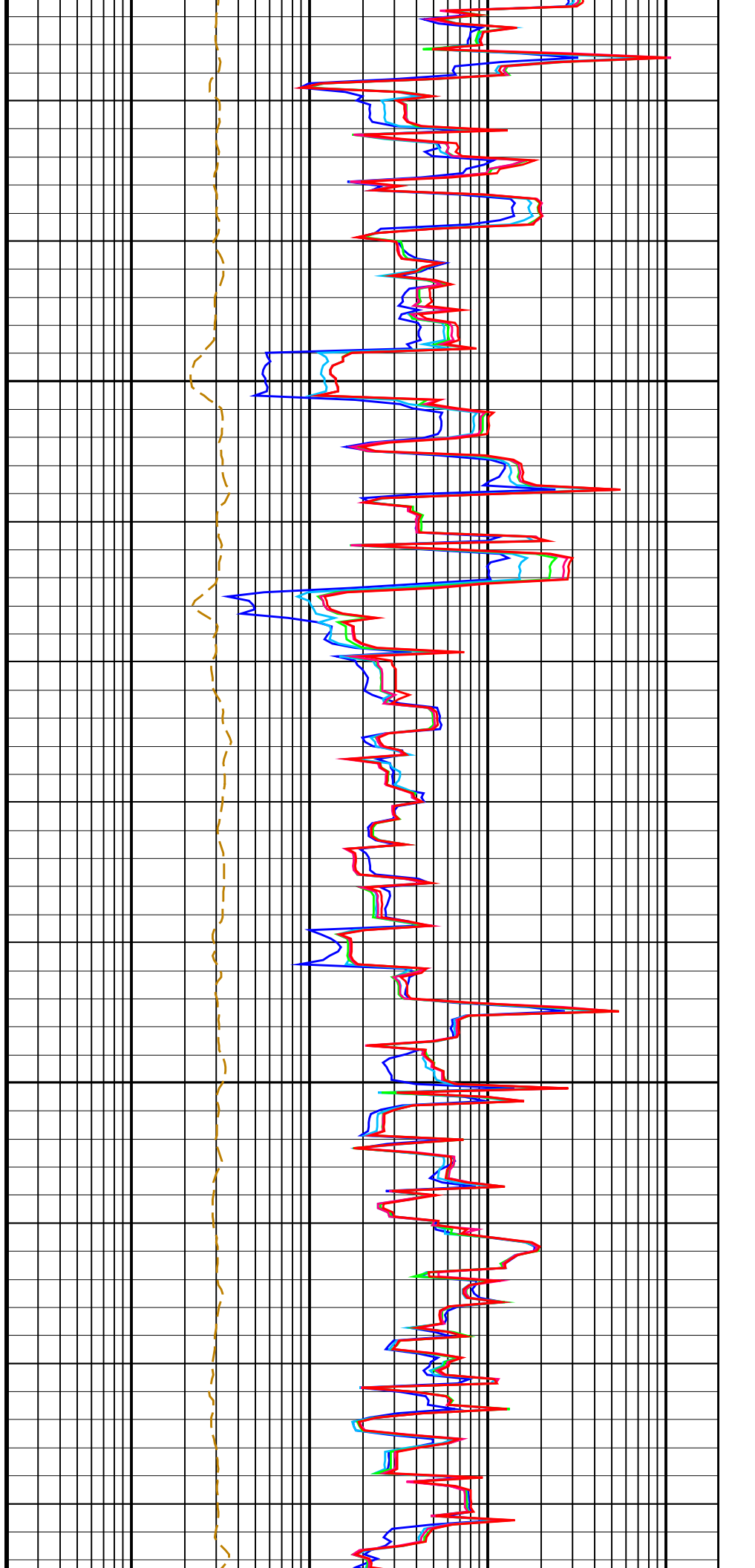
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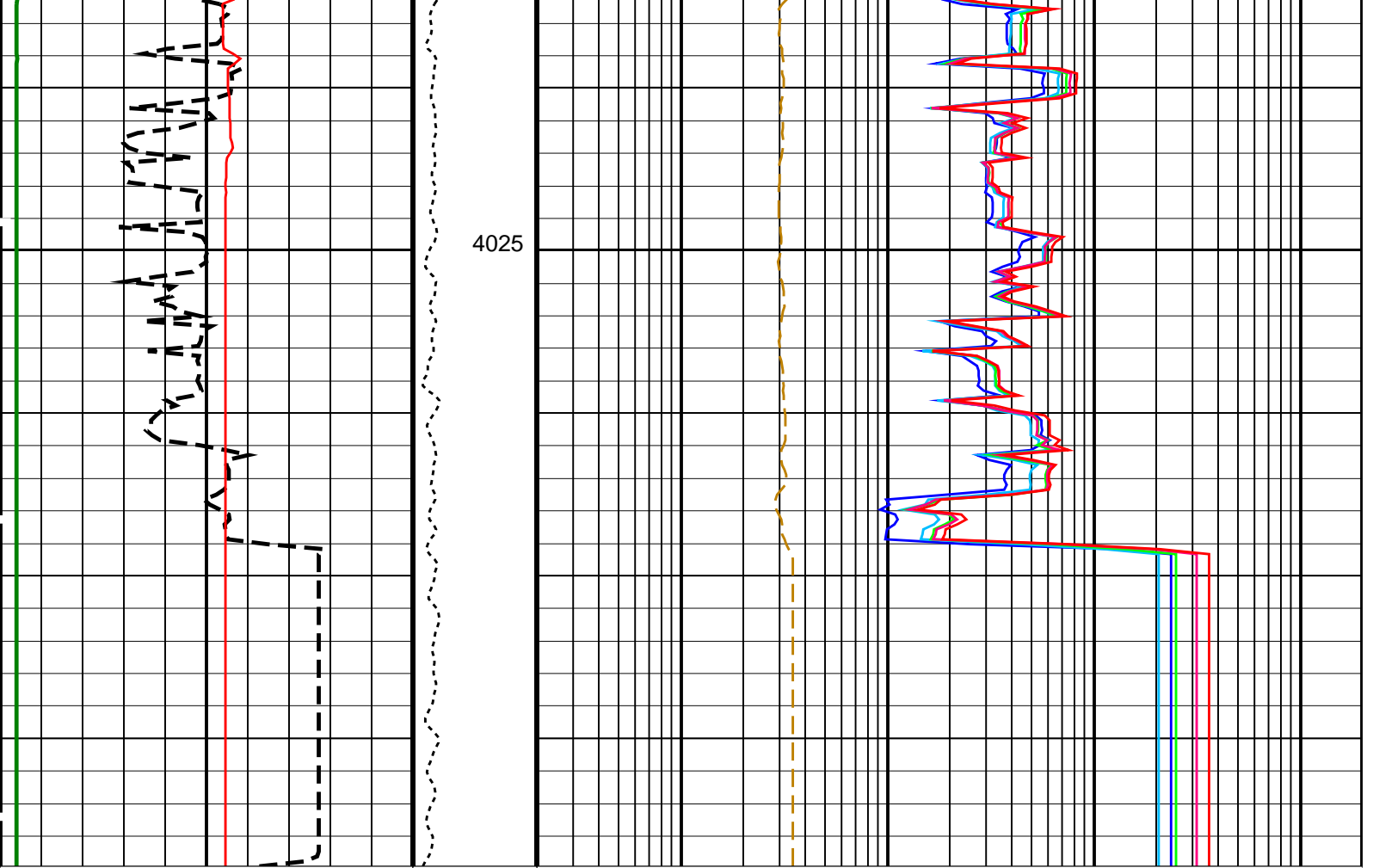




3975

4000





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

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)	20 DEGC
GCSE	Generalized Caliper Selection	LCAL
GGRD	Geothermal Gradient	0.018227 DC/M
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	20	DEGC
APS-C: Accelerator-Porosity Tool			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	20	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
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)	20	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	0.000431074	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.587963	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.337471	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	20	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	20	DEGC
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
TD	Total Depth	10190.3	FT

Format: HRLT Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 01:50

OP System Version: 19C0-187

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

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_010LUP	FN:9	PRODUCER	28-Jul-2022 01:50
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Company: International Ocean Discovery Program Well: Expedition 393, Site U1560B

Output DLIS Files

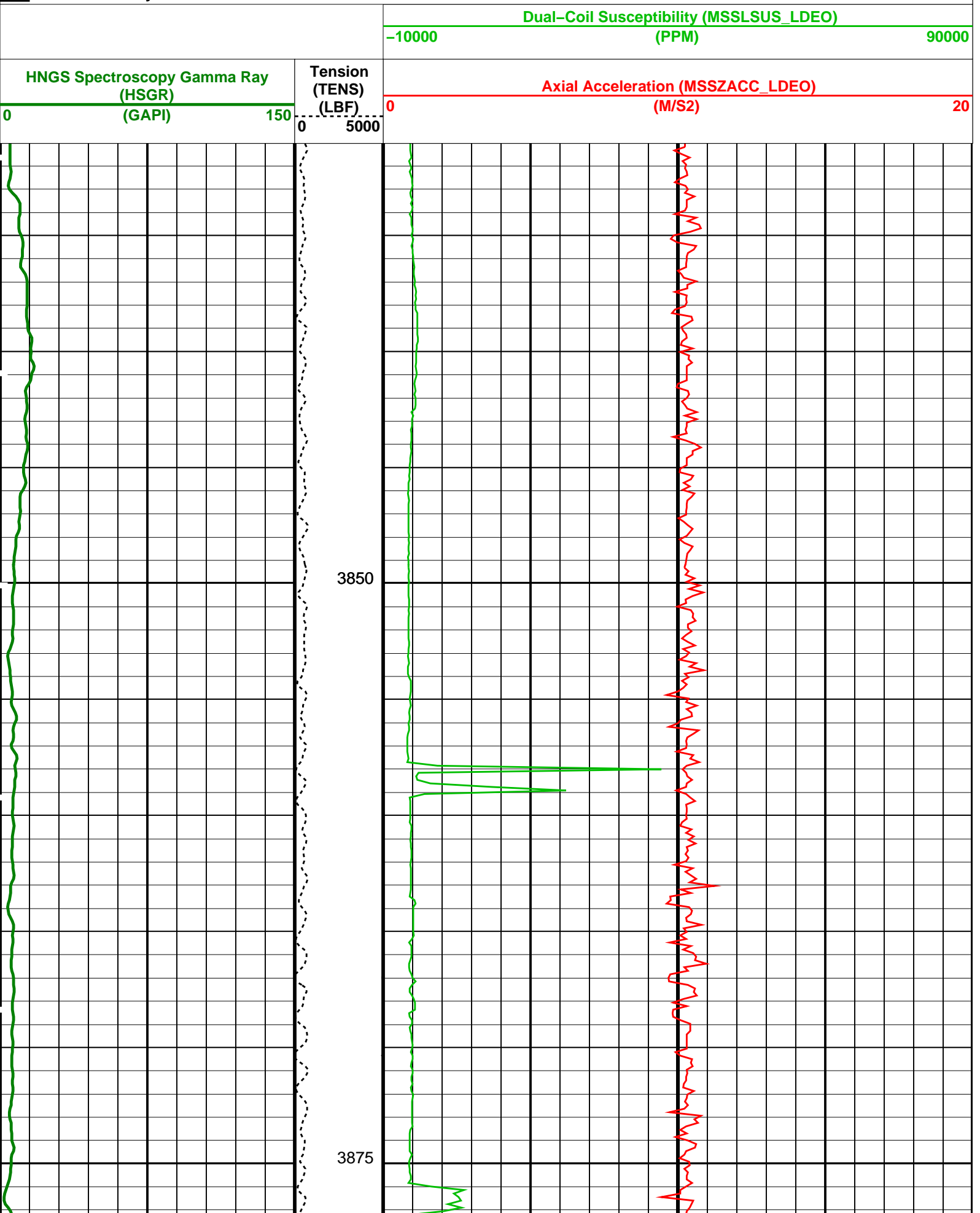
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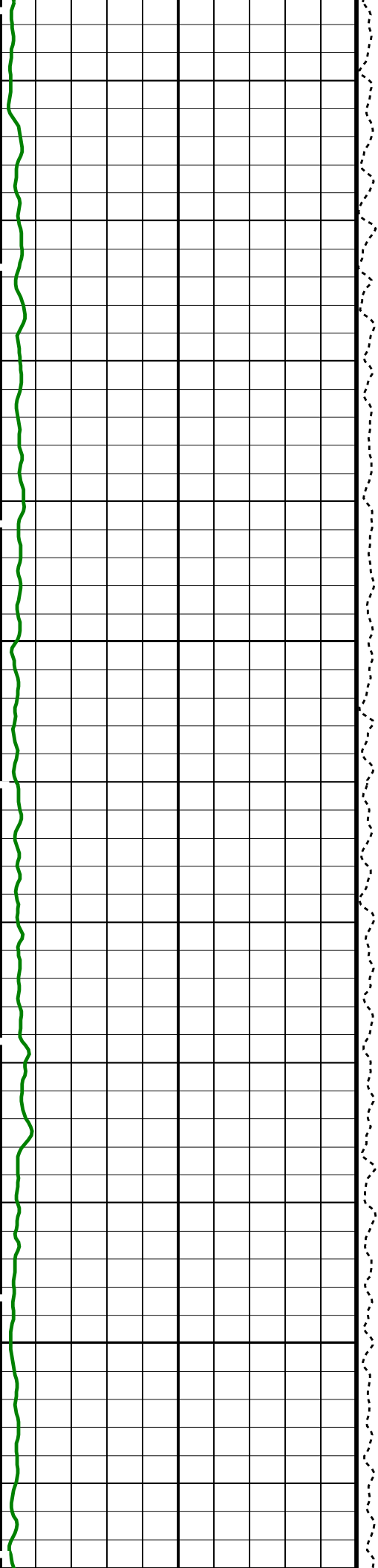
OP System Version: 19C0-187

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APS-C	19C0-187	HNGC-B	19C0-187

PIP SUMMARY

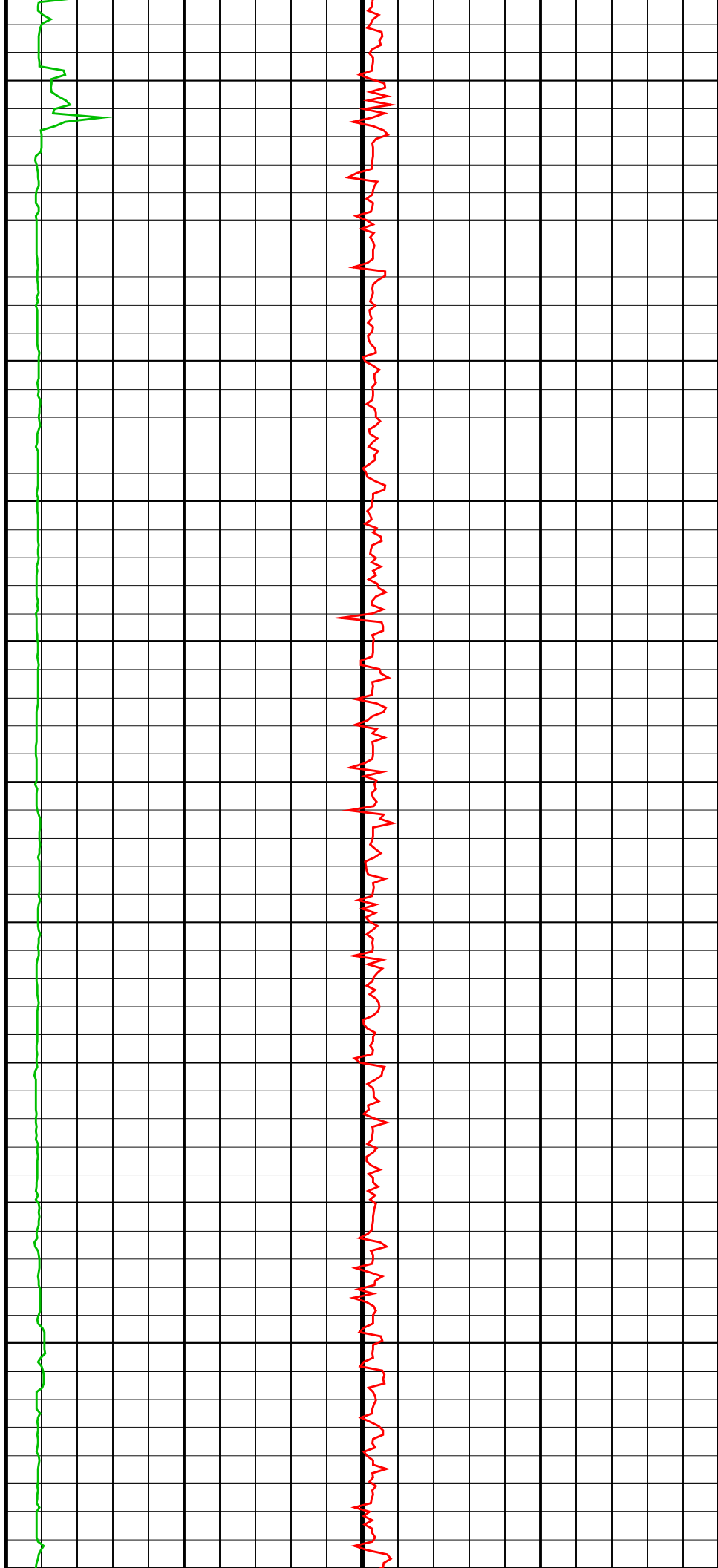
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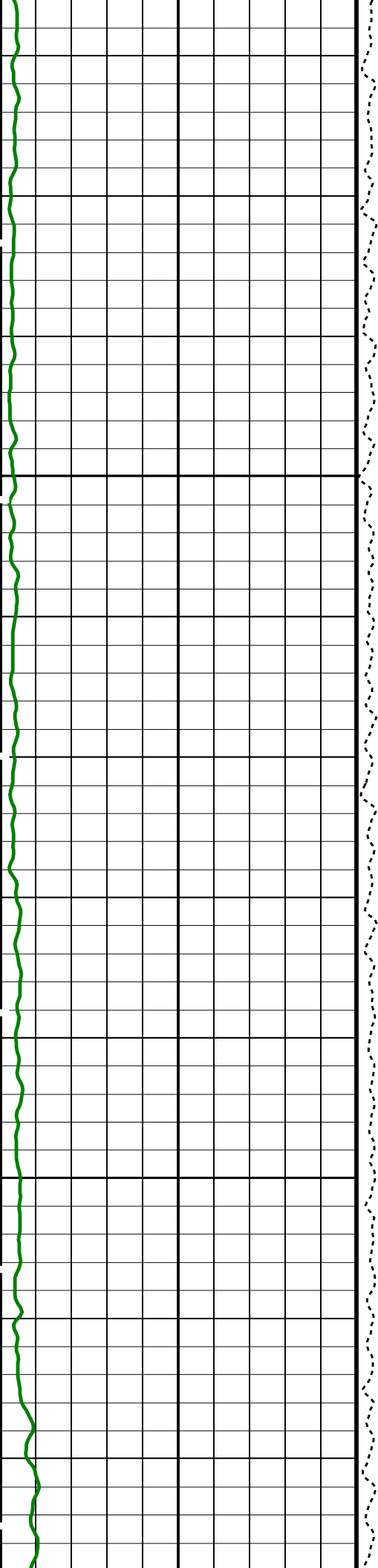




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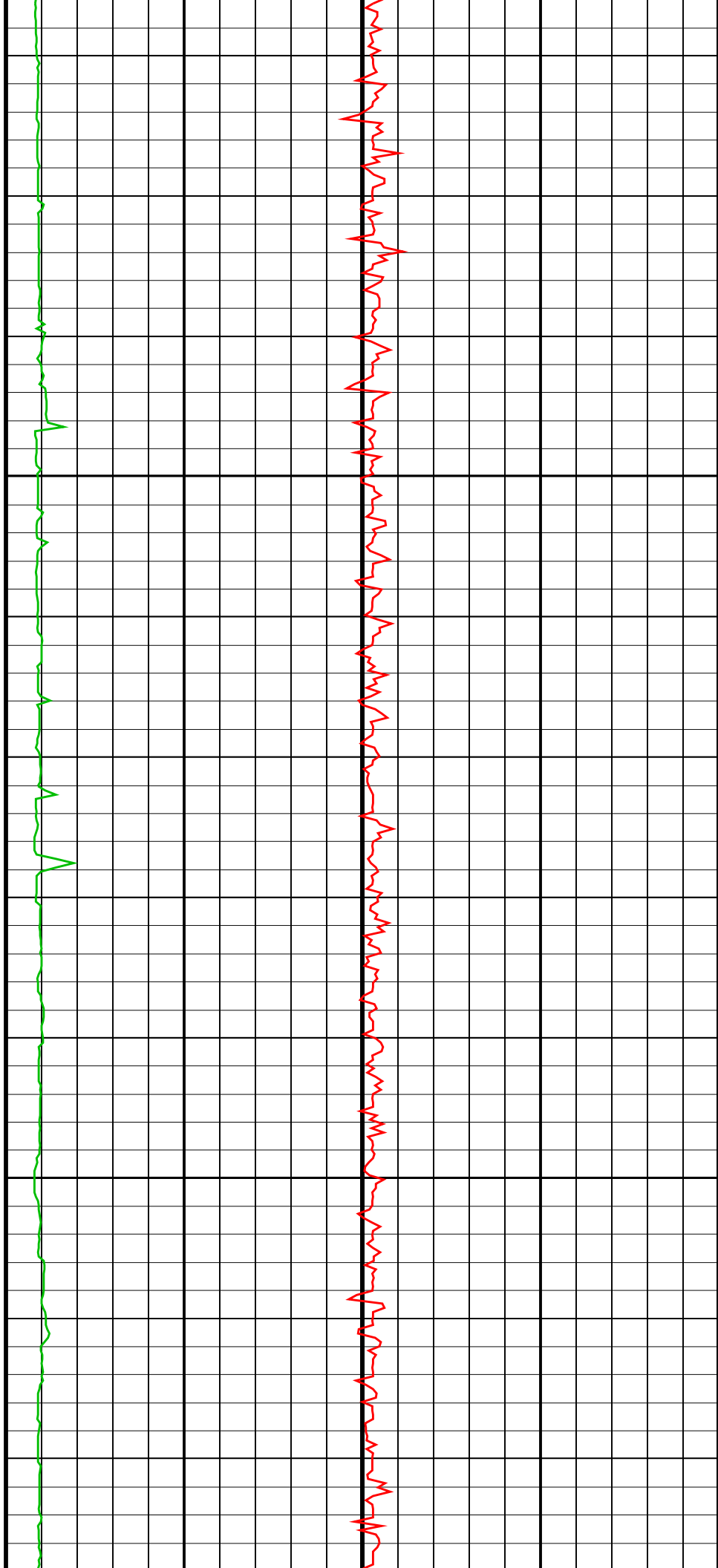
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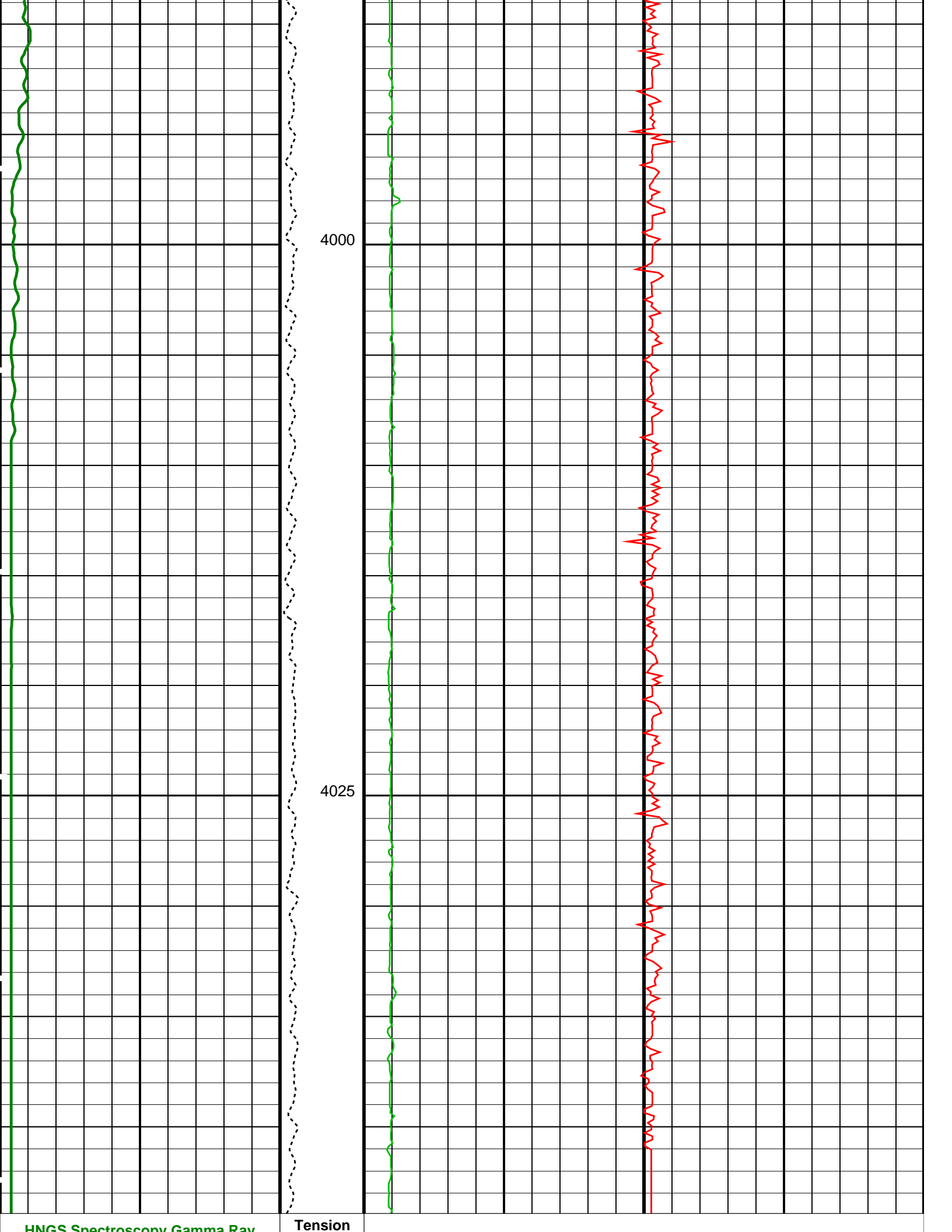




3950

3975





HNGS Spectroscopy Gamma Ray

Tension

HNGS Spectroscopy Gamma Ray (HSGR)	150	(TENS)	0	Axial Acceleration (MSSZACC_LDEO)	20
(GAPI)	0	(LBF)	5000	(M/S2)	
				Dual-Coil Susceptibility (MSSLSUS_LDEO)	
				(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	0.000431074	
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	0.587963	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.337471	
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	1.03	G/C3

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 01:50

OP System Version: 19C0-187

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

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_010LUP FN:9 PRODUCER 28-Jul-2022 01:50



Second Up Pass

Output DLIS Files

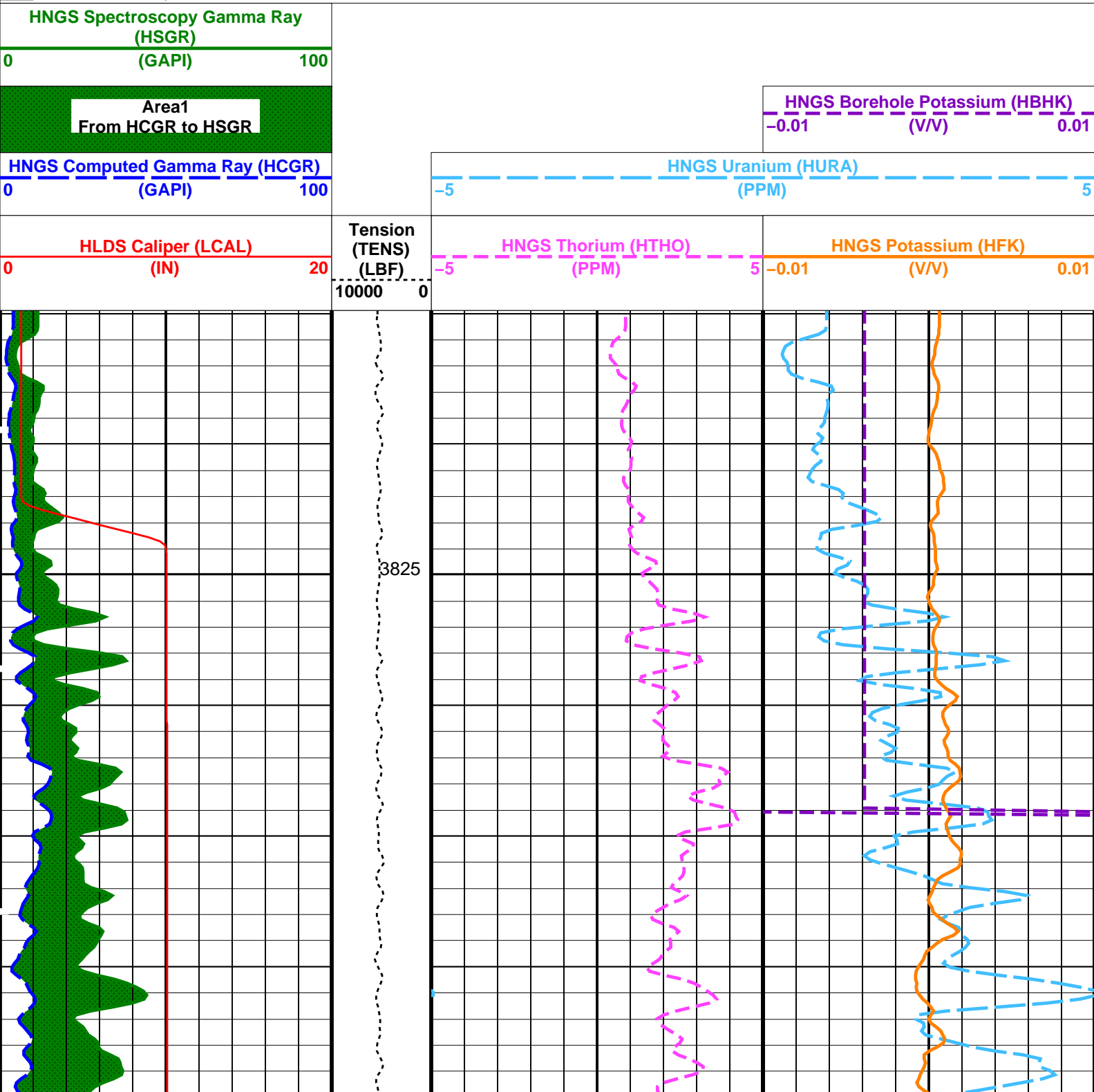
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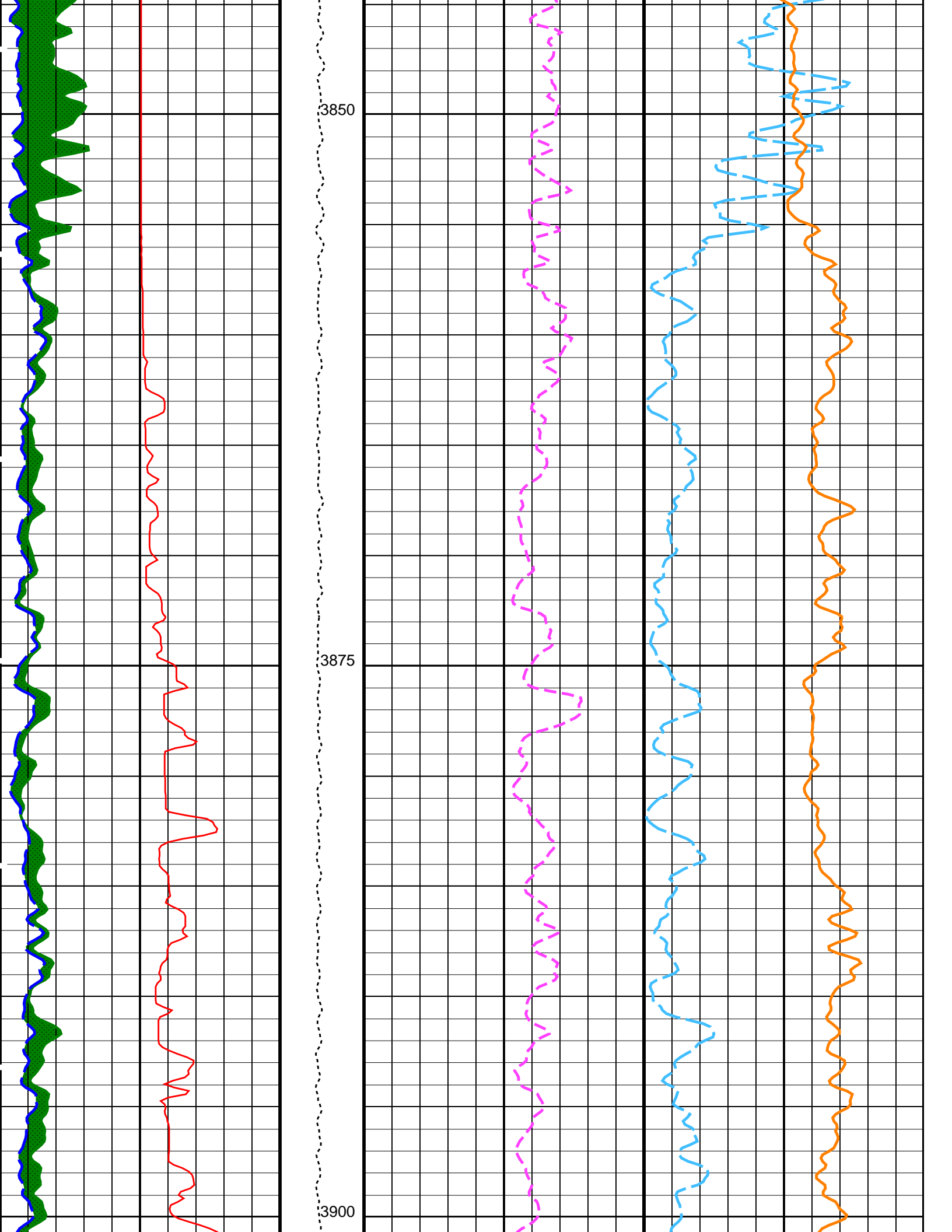
OP System Version: 19C0-187

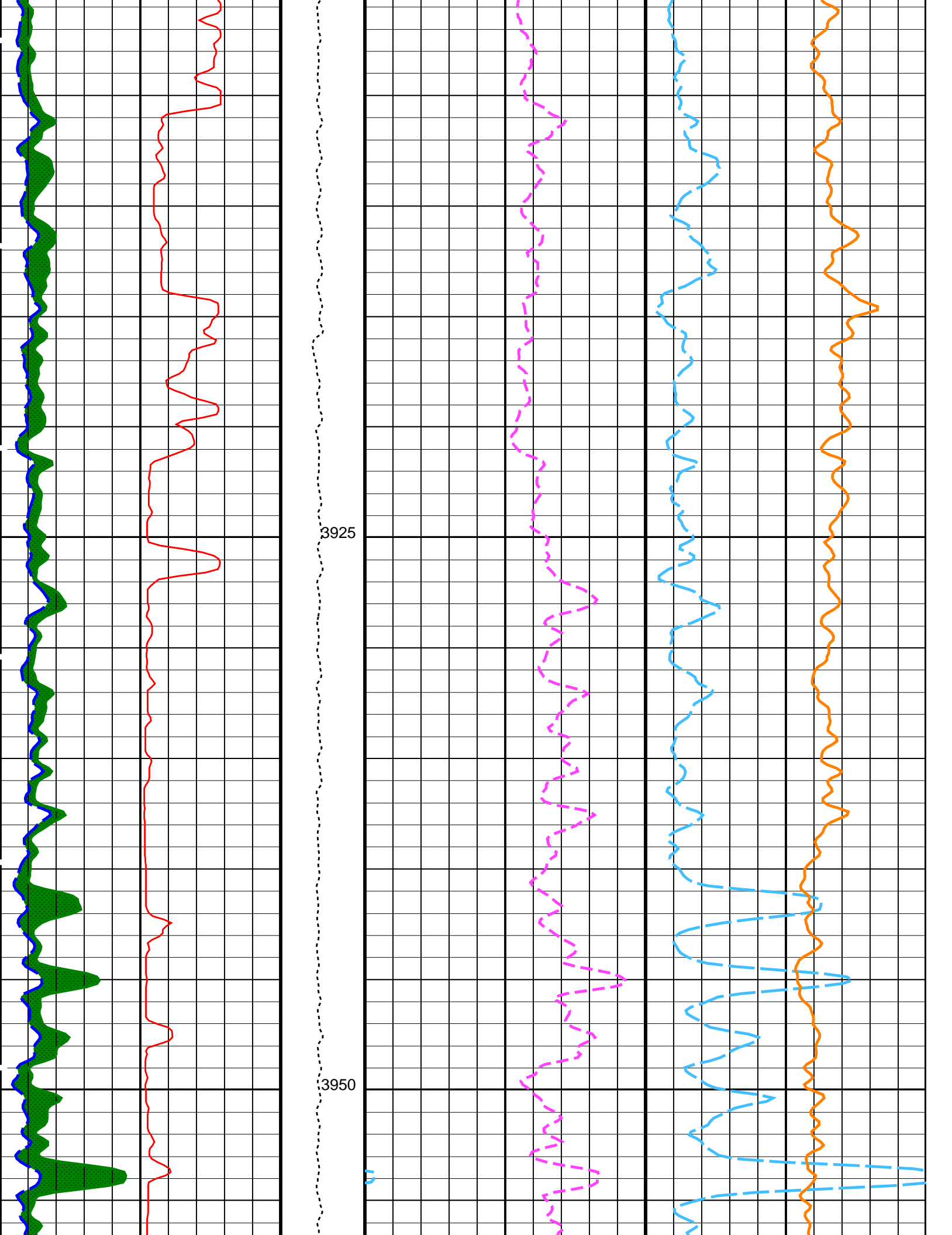
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HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

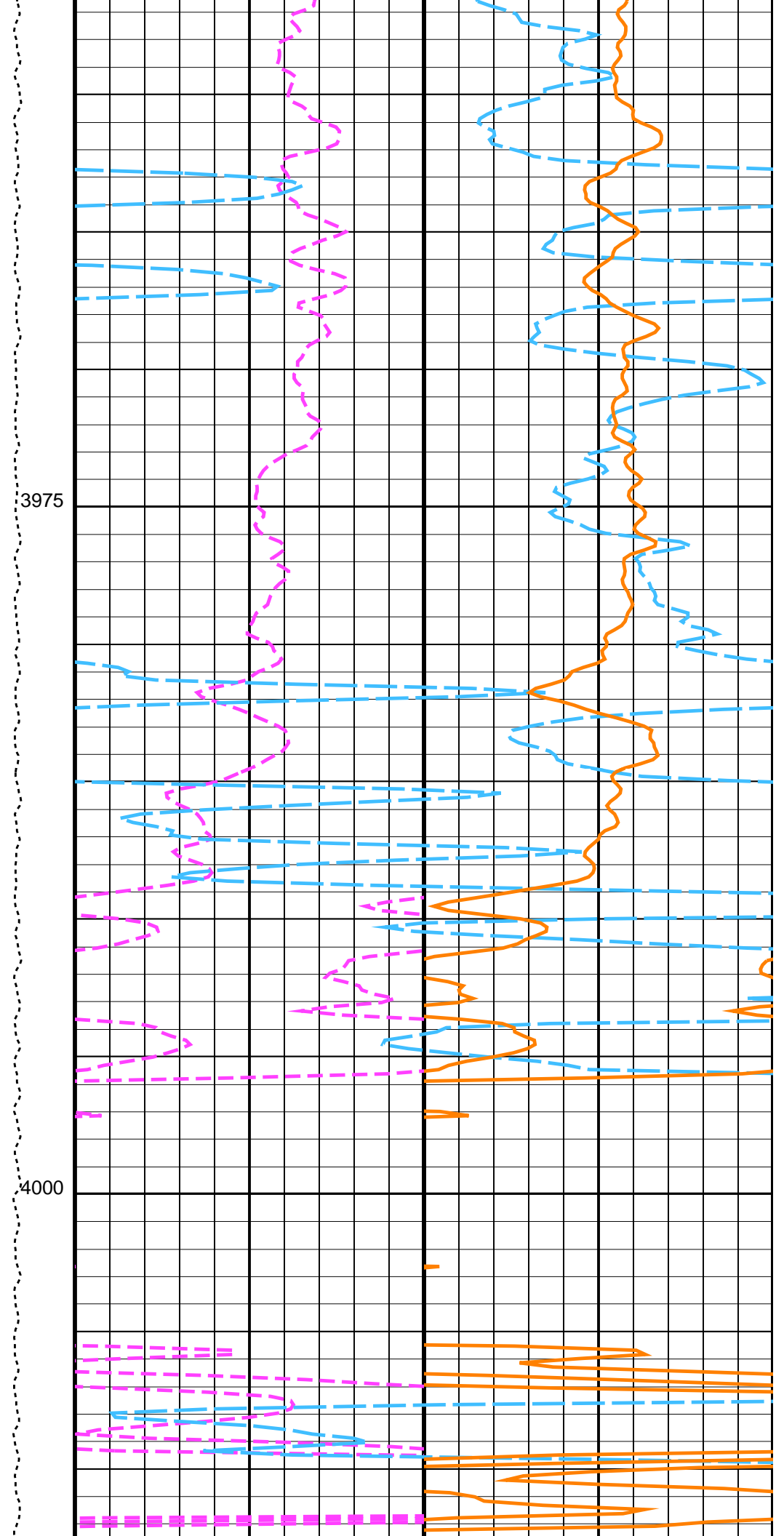
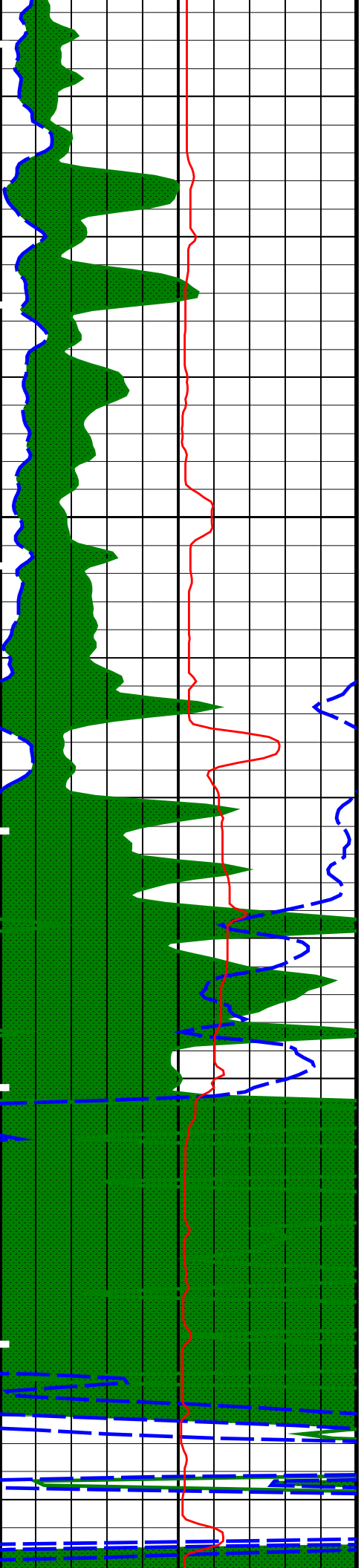
PIP SUMMARY

Time Mark Every 60 S



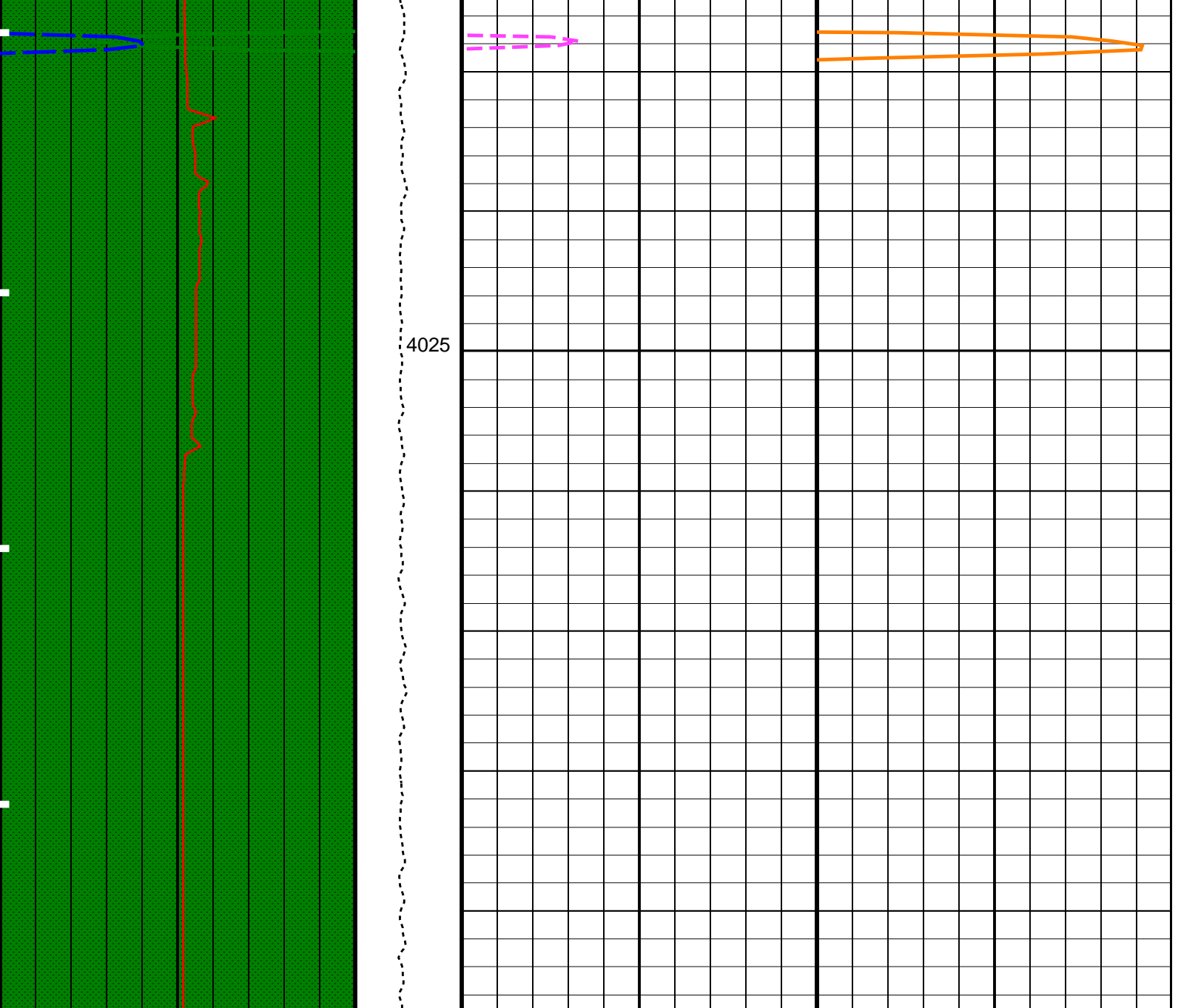






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4000



HLDS Caliper (LCAL) 0 (IN) 20	Tension (TENS) (LBF) 10000 0	HNGS Thorium (HTHO) (PPM) -5 5	HNGS Potassium (HFK) (V/V) -0.01 0.01
HNGS Computed Gamma Ray (HCGR) (GAPI) 0 100		HNGS Uranium (HURA) (PPM) -5 5	
Area1 From HCGR to HSGR			HNGS Borehole Potassium (HBHK) (V/V) -0.01 0.01
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 100			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
BHS	HRLT-B: High Resolution Laterolog Array - B	
GCSE	Borehole Status	OPEN
	Generalized Caliper Selection	LCAL
	APS - C: Accelerator Potassium Tool	

BHS	APS-C: Accelerator-Porosity Tool	Borehole Status	OPEN	
GCSE		Generalized Caliper Selection	LCAL	
BAR1	HNGS-BA: Hostile Natural Gamma Ray Sonde	HNGS Detector 1 Barite Constant	1	
BAR2		HNGS Detector 2 Barite Constant	1	
BHK		HNGS Borehole Potassium Correction Concentration	0	
BHS		Borehole Status	OPEN	
CSD1		Inner Casing Outer Diameter	0	IN
CSD2		Outer Casing Outer Diameter	0	IN
CSW1		Inner Casing Weight	0	LB/F
CSW2		Outer Casing Weight	0	LB/F
DBCC		HNGS Barite Constant Correction Flag	NONE	
GCSE		Generalized Caliper Selection	LCAL	
H1P		HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P		HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK		HNGS Borehole Potassium Running Average	-0.00180074	
HALF		HNGS Alpha Filter Length	60	IN
HCRB		HNGS Apply Borehole Potassium Correction	NONE	
HMWM		Mud Weighting Material	NATU	
HNPE		HNGS Processing Enable	YES	
S1BI		HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI		HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC		HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS		Tool Position	ECCE	
VBA1		HNGS Detector 1 Variable Barite Factor Running Average	1.07483	
VBA2		HNGS Detector 2 Variable Barite Factor Running Average	1.0798	
BHS	EDTC-B: Enhanced DTS Cartridge	Borehole Status	OPEN	
GCSE		Generalized Caliper Selection	LCAL	
	System and Miscellaneous			
BS		Bit Size	9.875	IN
DFD		Drilling Fluid Density	1.03	G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 02:31

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

Output DLIS Files			
DEFAULT	MSS_LDEO_HRLA_LDL_011LUP	FN:10	PRODUCER 28-Jul-2022 02:31

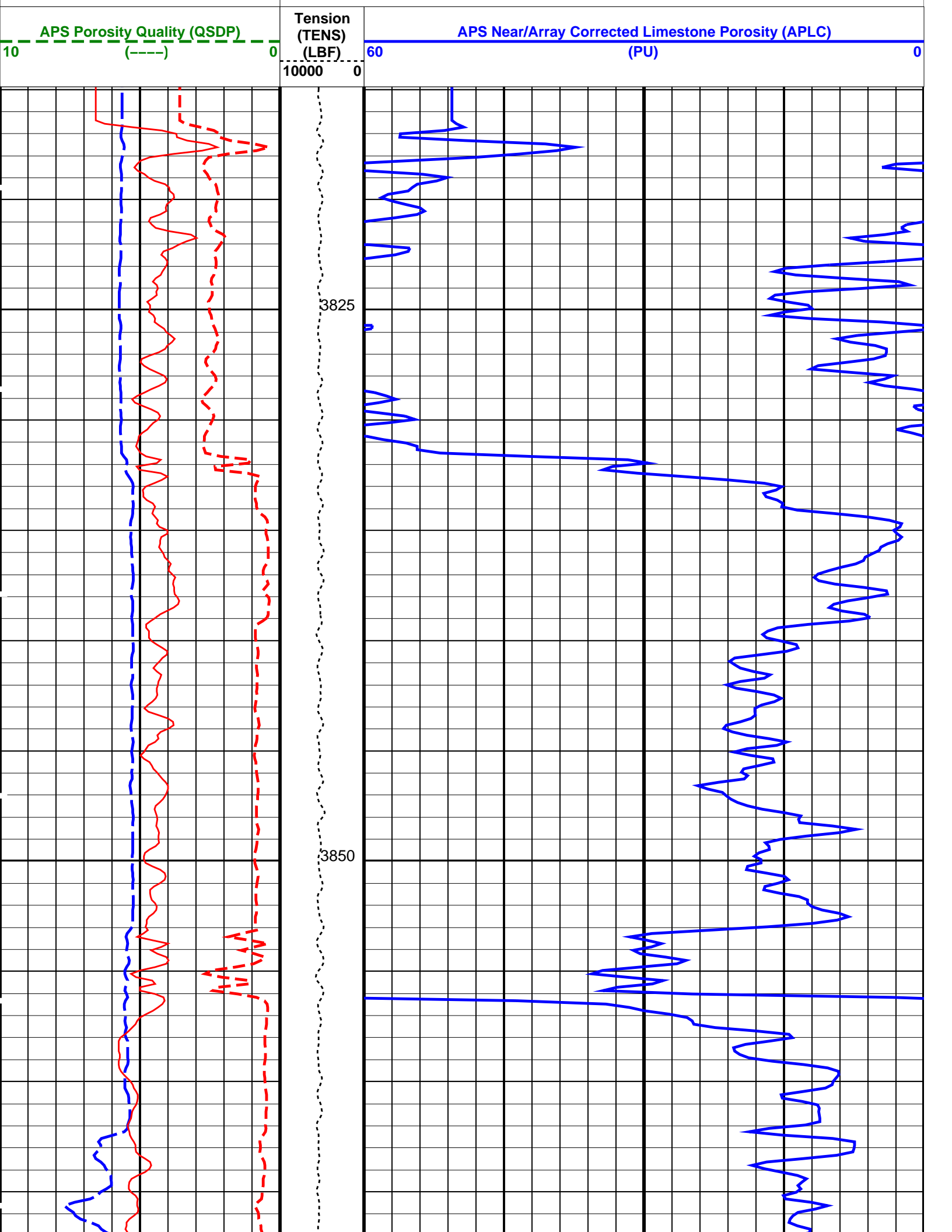
Company: International Ocean Discovery Program Well: Expedition 393, Site U1560B

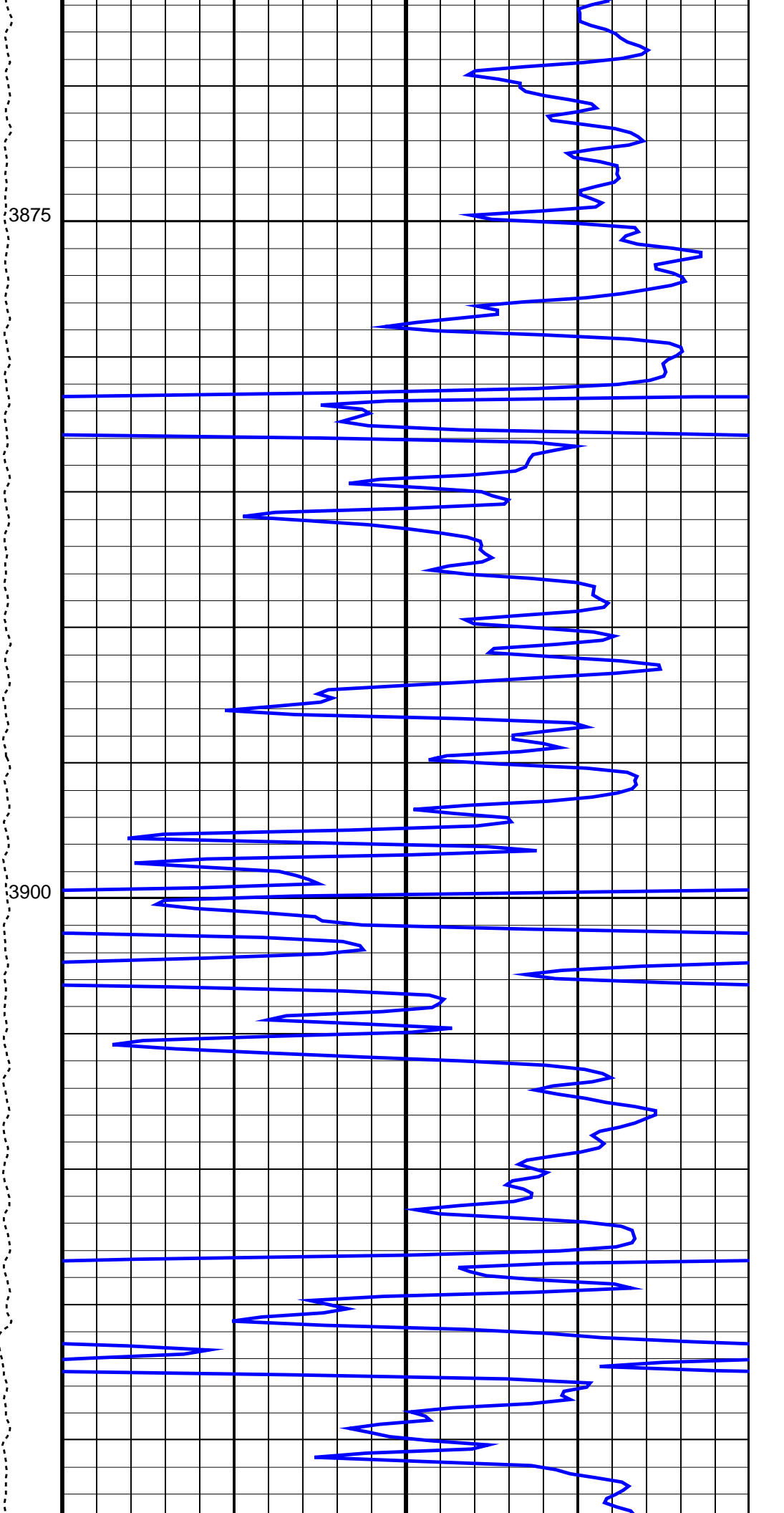
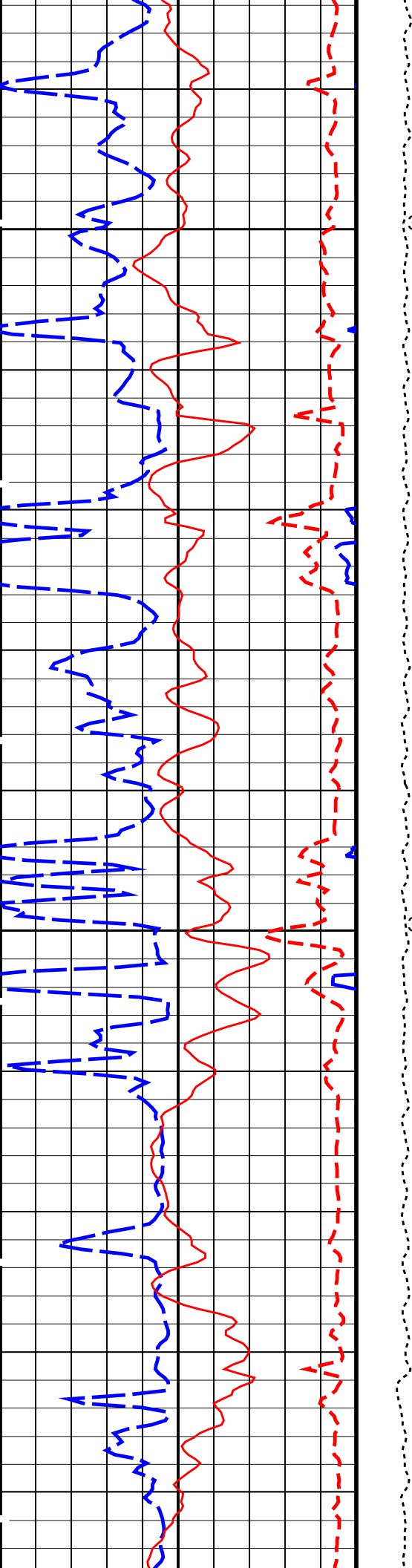
Output DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_011LUP	FN:10	PRODUCER	28-Jul-2022 02:31	4048.5 M	3815.3 M

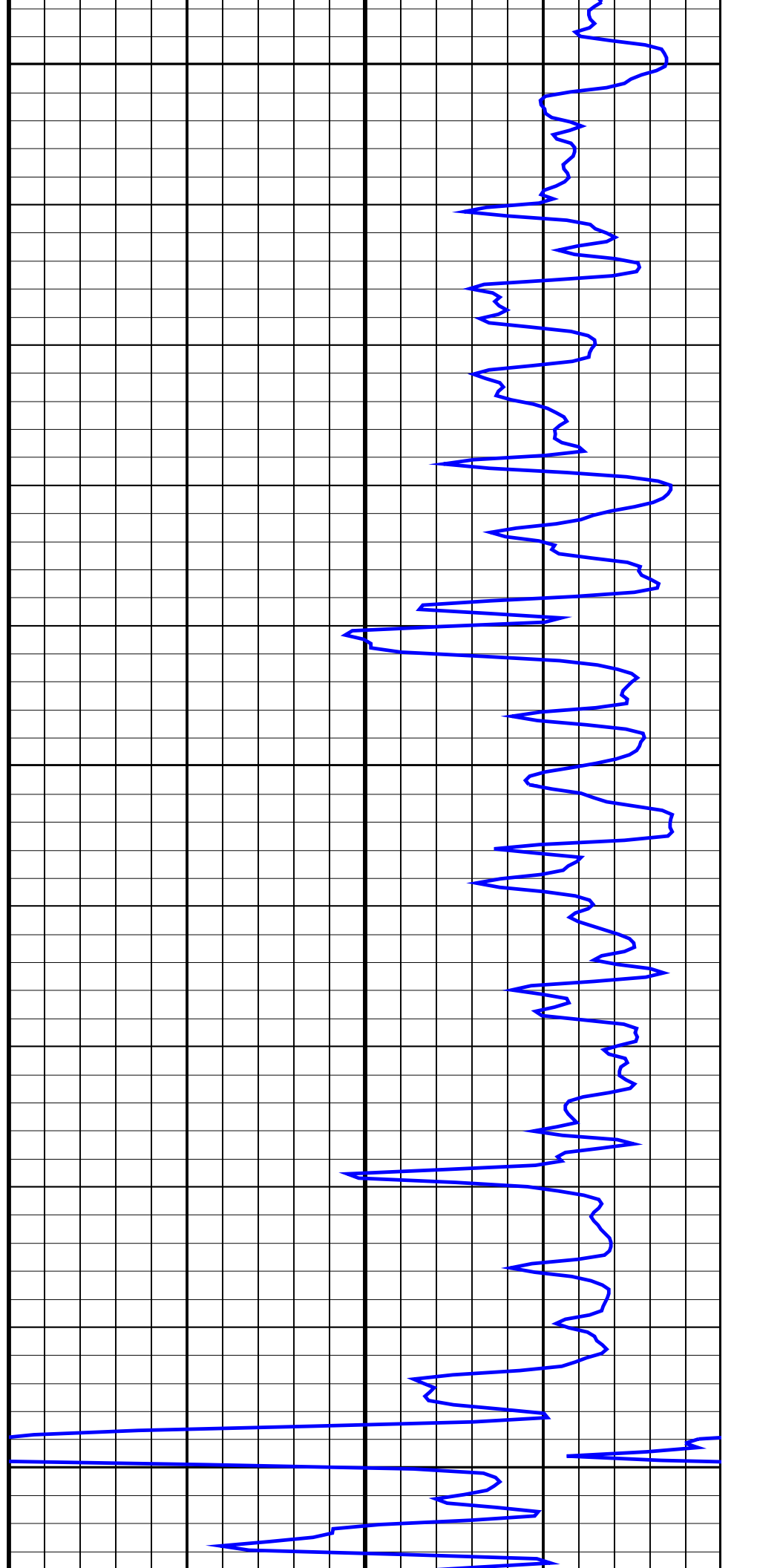
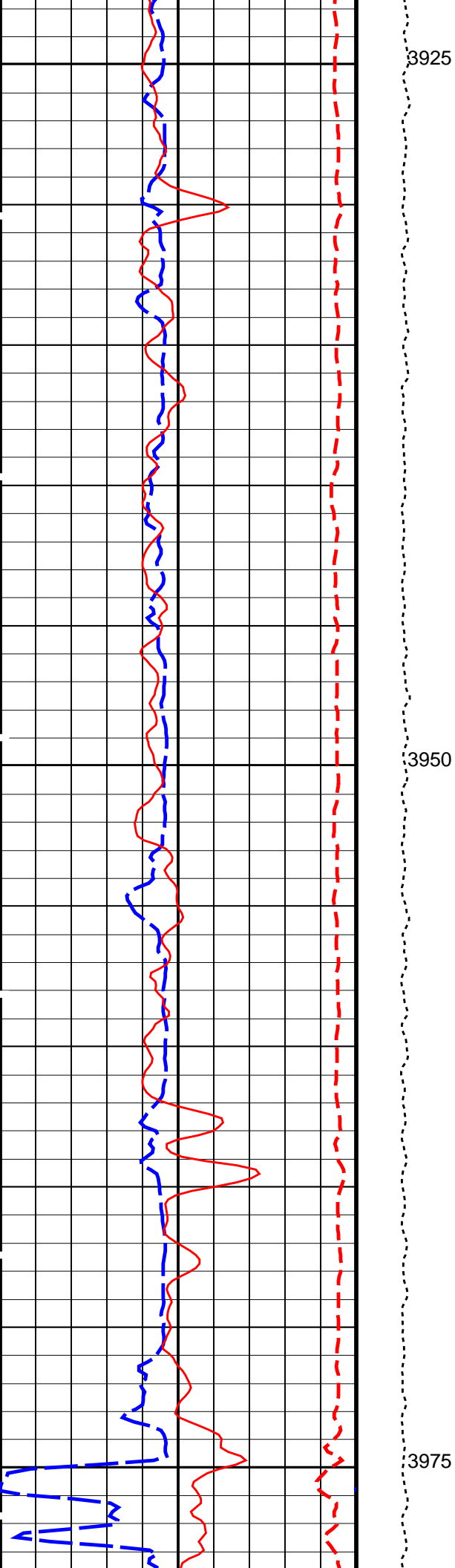
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MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

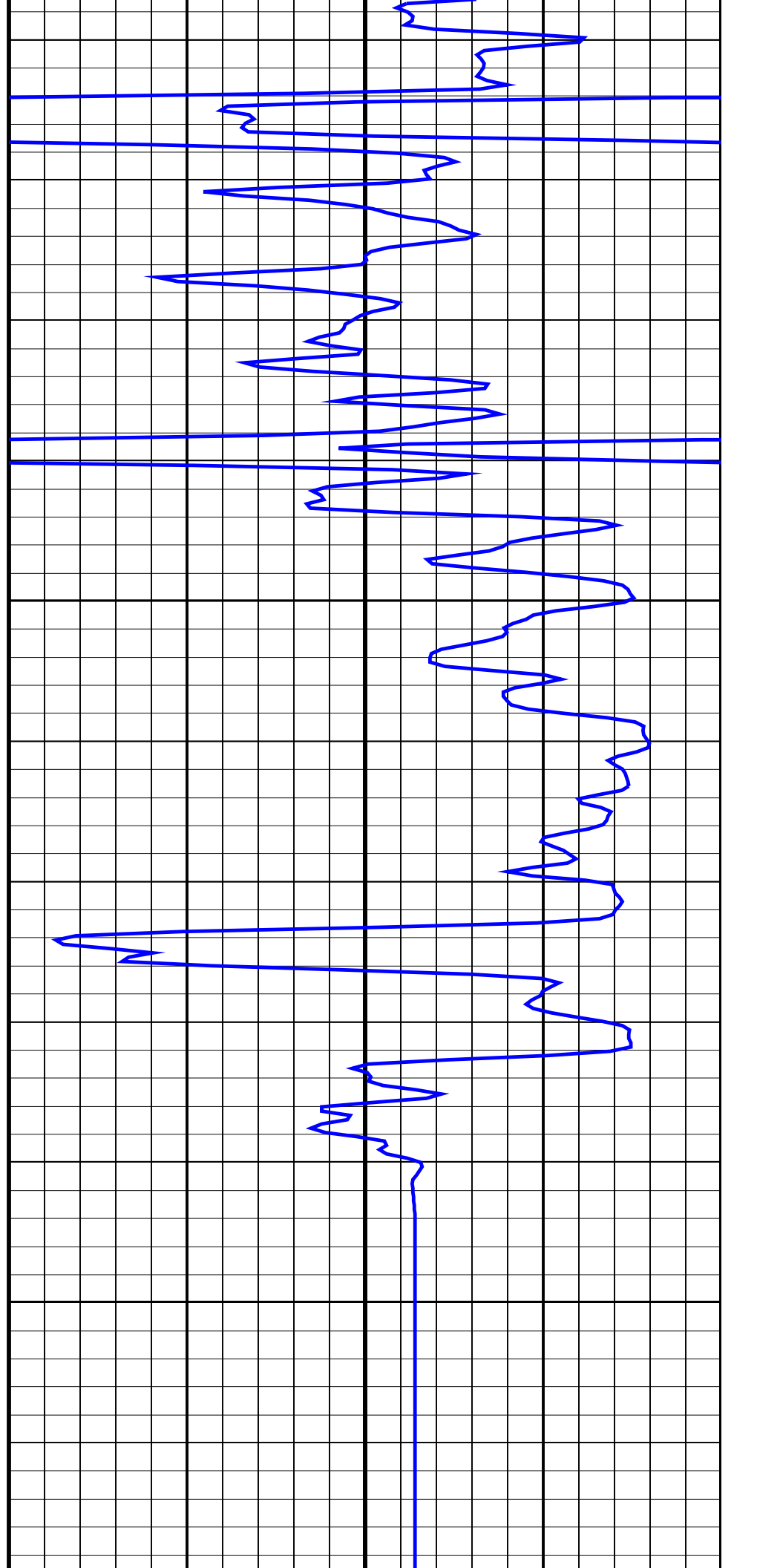
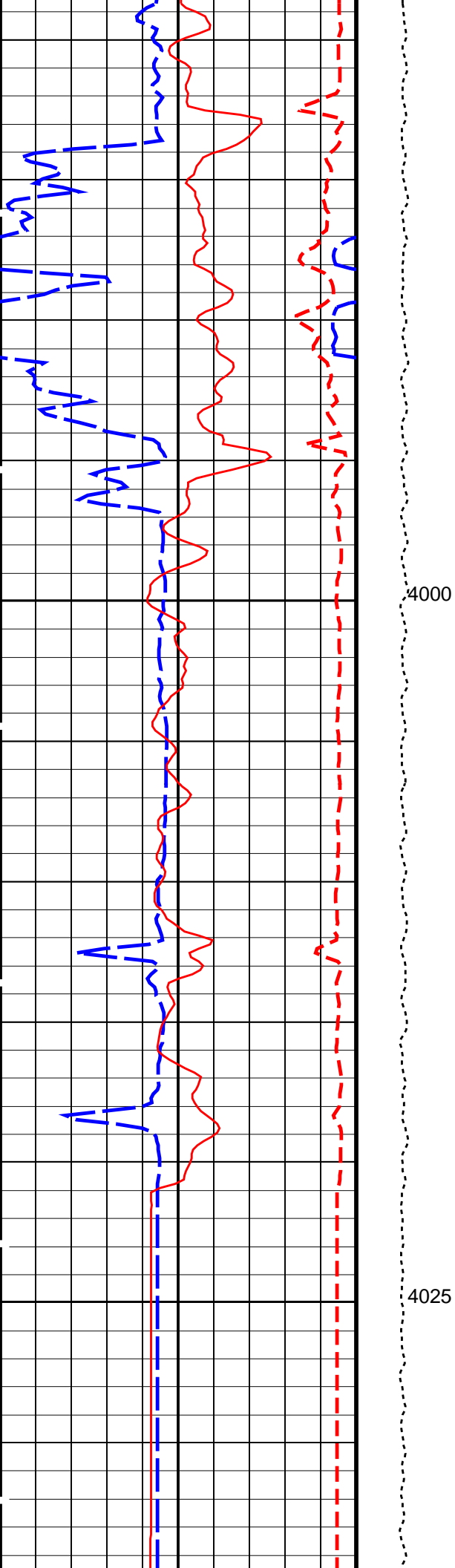
PIP SUMMARY

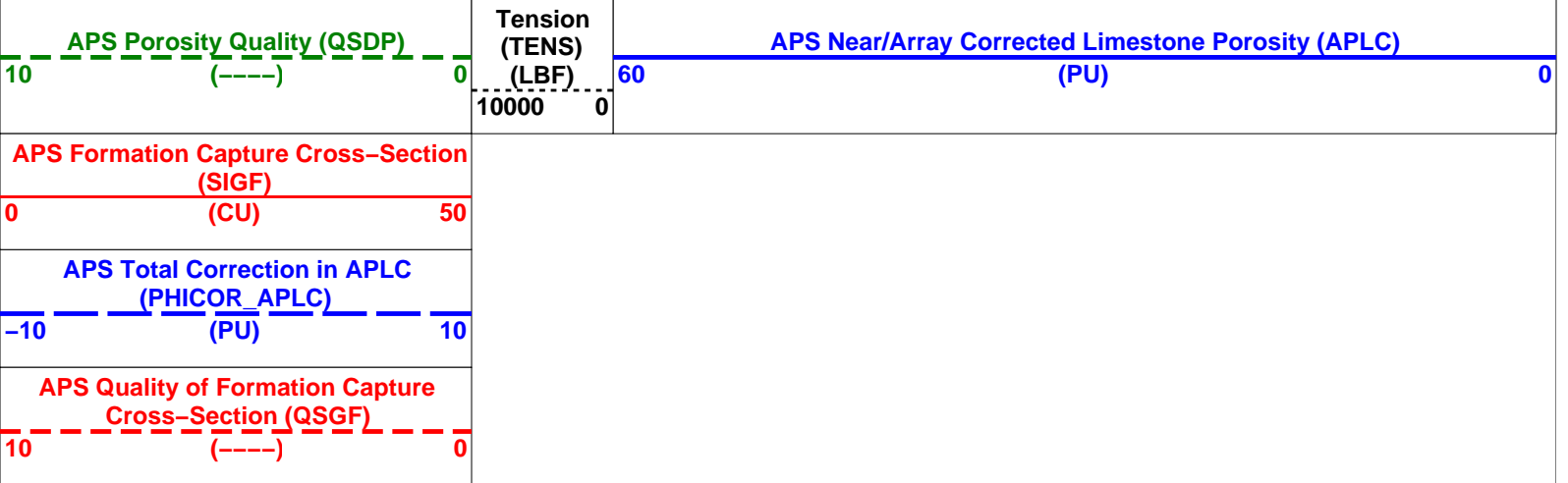
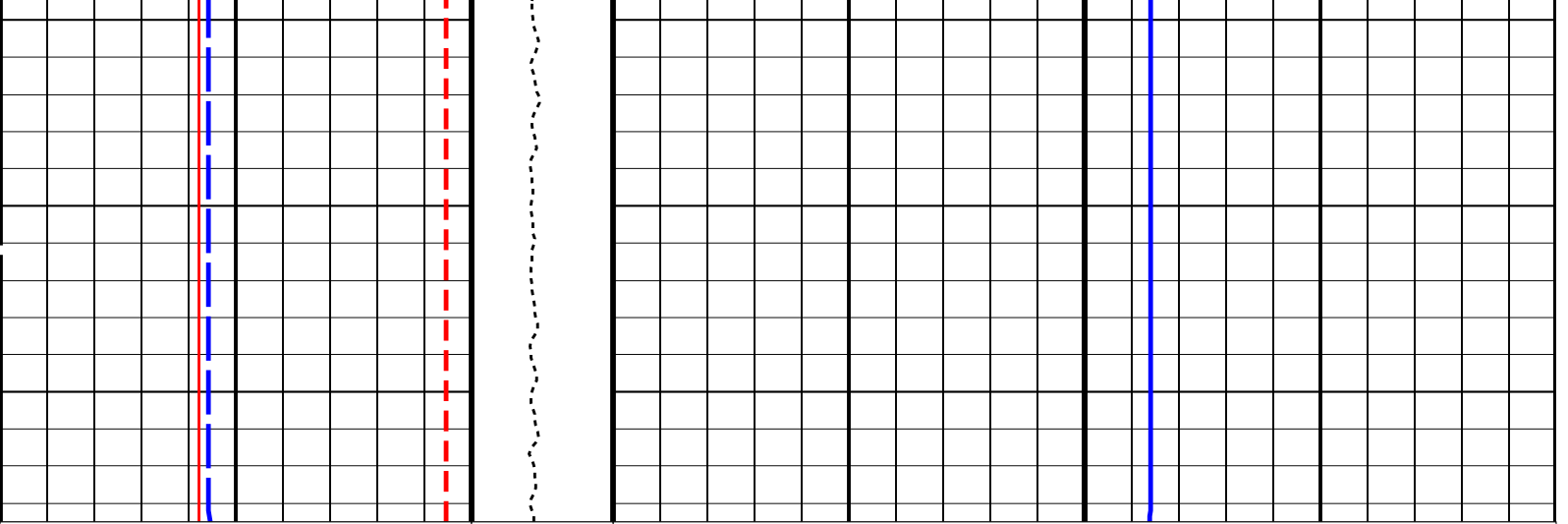
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10	(----)	0
<hr/>		
APS Total Correction in APLC (PHICOR_APLC)		
-10	(PU)	10
<hr/>		
APS Formation Capture Cross-Section (SIGF)		
0	(CU)	50











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)	20	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
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	1976.24	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2067.55	V
AHCS	APS Holesize Correction Source	BS	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1737.8	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHFL_APS	APS TNPH Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	20	DEGC
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	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	

GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
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	1.08341	
NFRC	APS Near/Far Calibration Ratio	0.942369	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	20	DEGC
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)	20	DEGC
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	20	DEGC
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	0.018227	DC/M
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	20	DEGC
System and Miscellaneous			
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	38000.00	PPM
CSIZ	Current Casing Size	10.750	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.03	G/C3
FLEV	Fluid Level	-50000.00	M
TD	Total Depth	10190.3	FT

Format: APSLiquidPorosity Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 02:31

OP System Version: 19C0-187

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

Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_011LUP	FN:10	PRODUCER	28-Jul-2022 02:31
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Company: International Ocean Discovery Program Well: Expedition 393, Site U1560B

Output DLIS Files

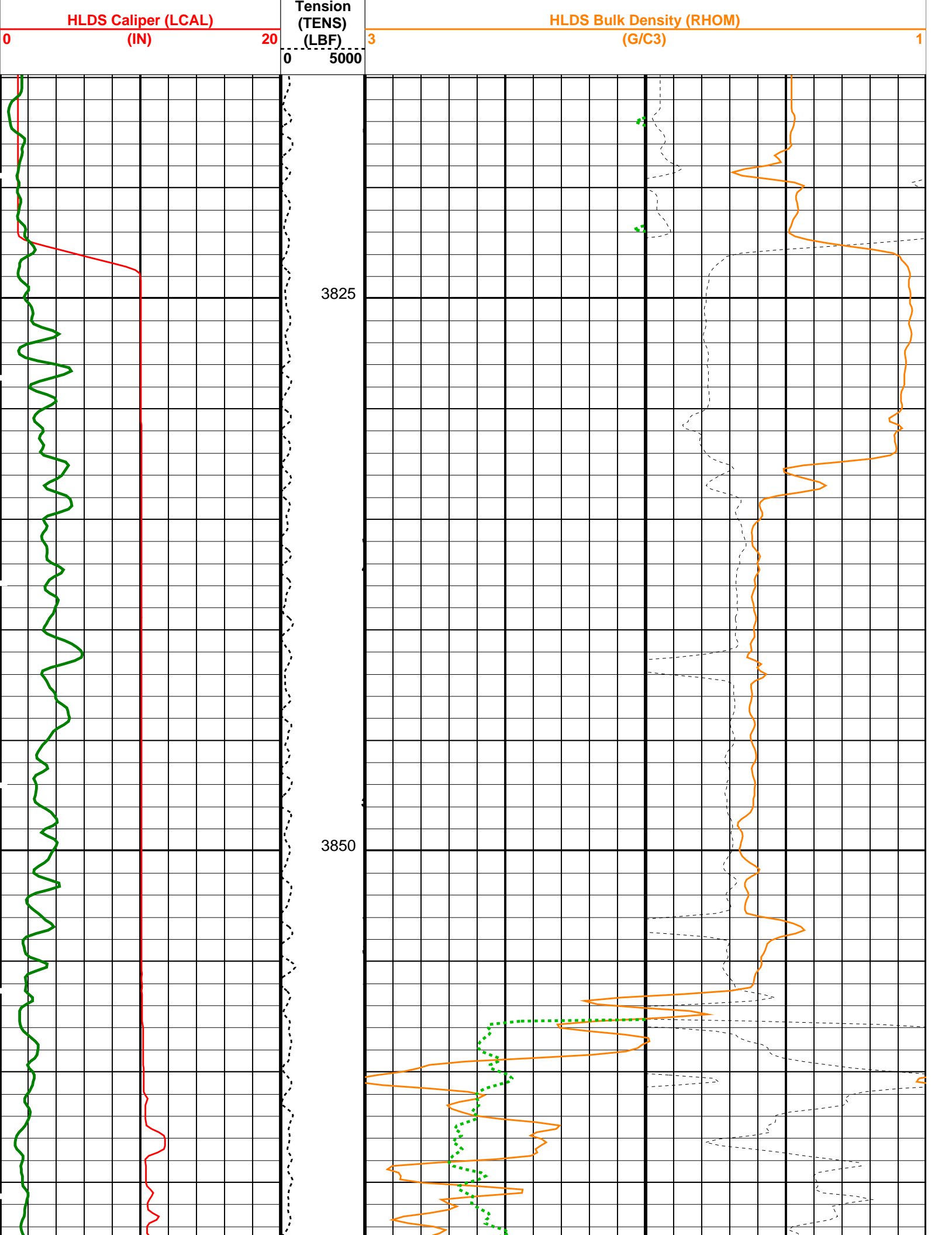
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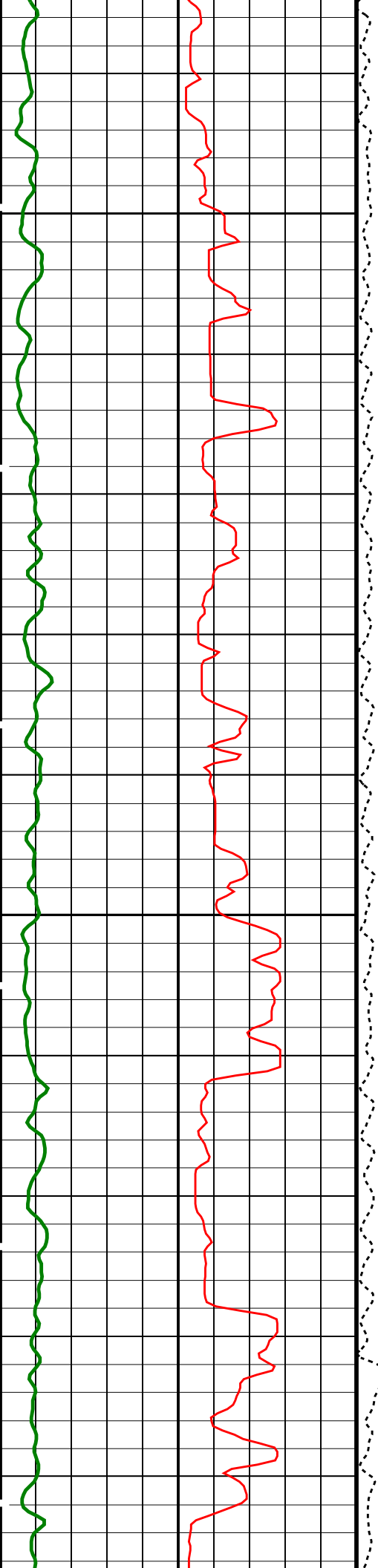
OP System Version: 19C0-187

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

PIP SUMMARY

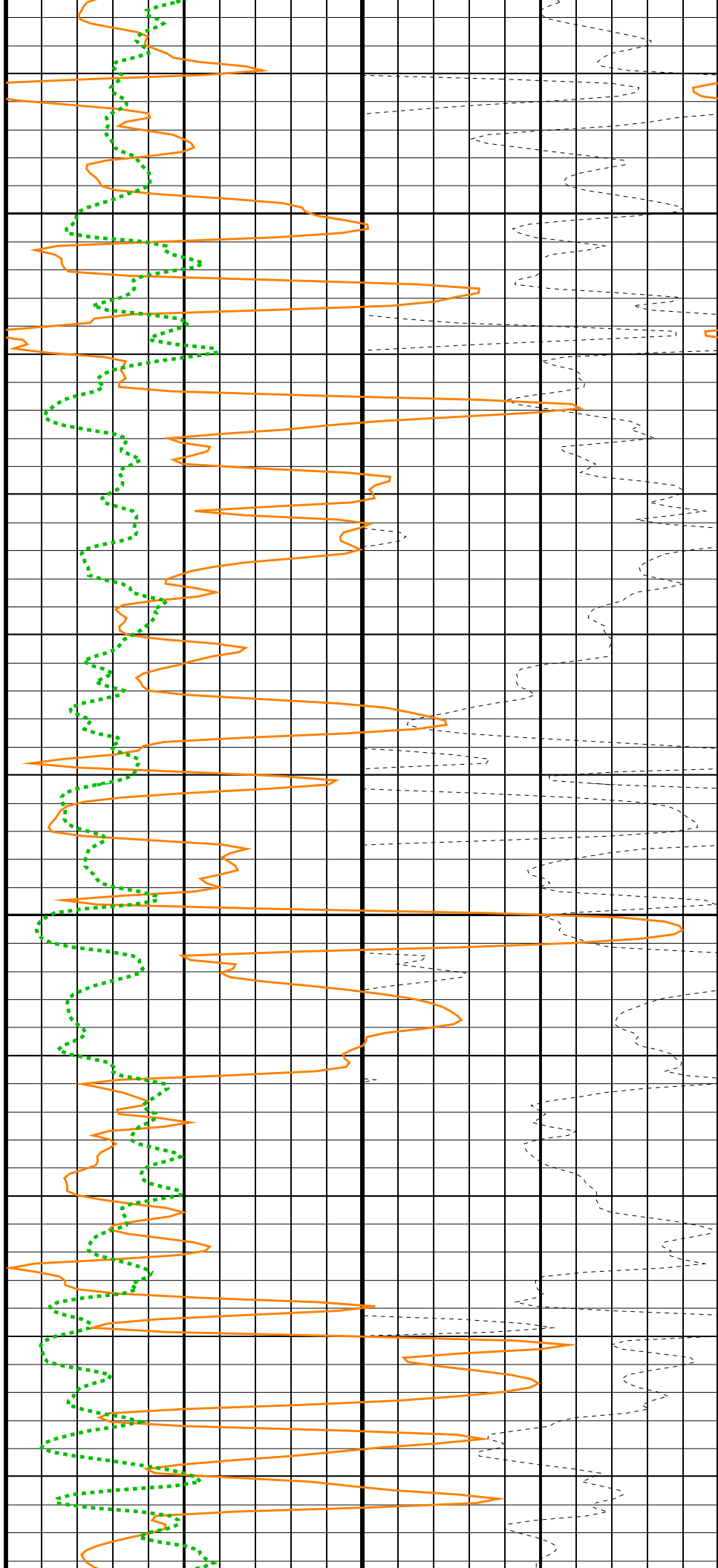


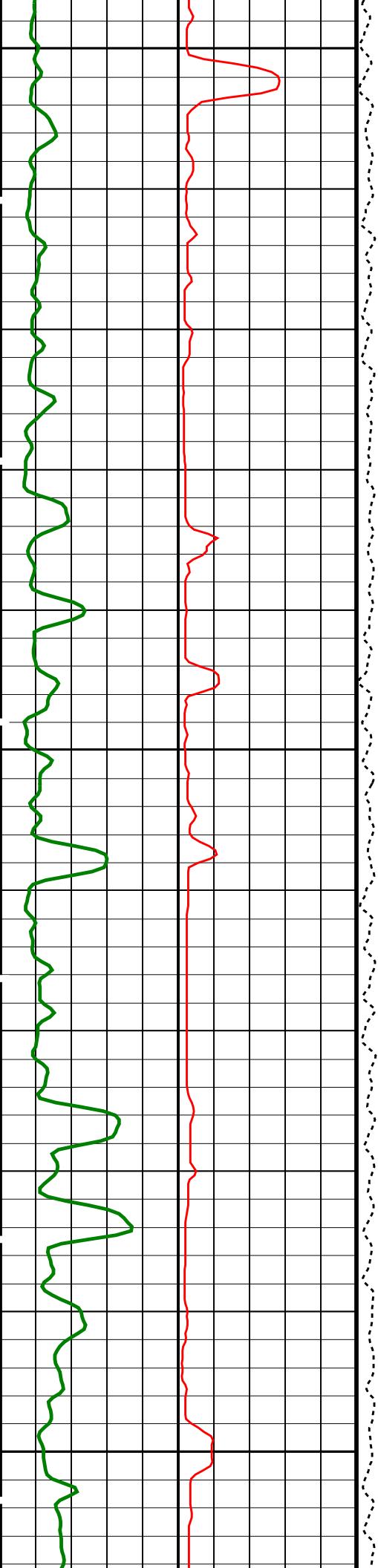




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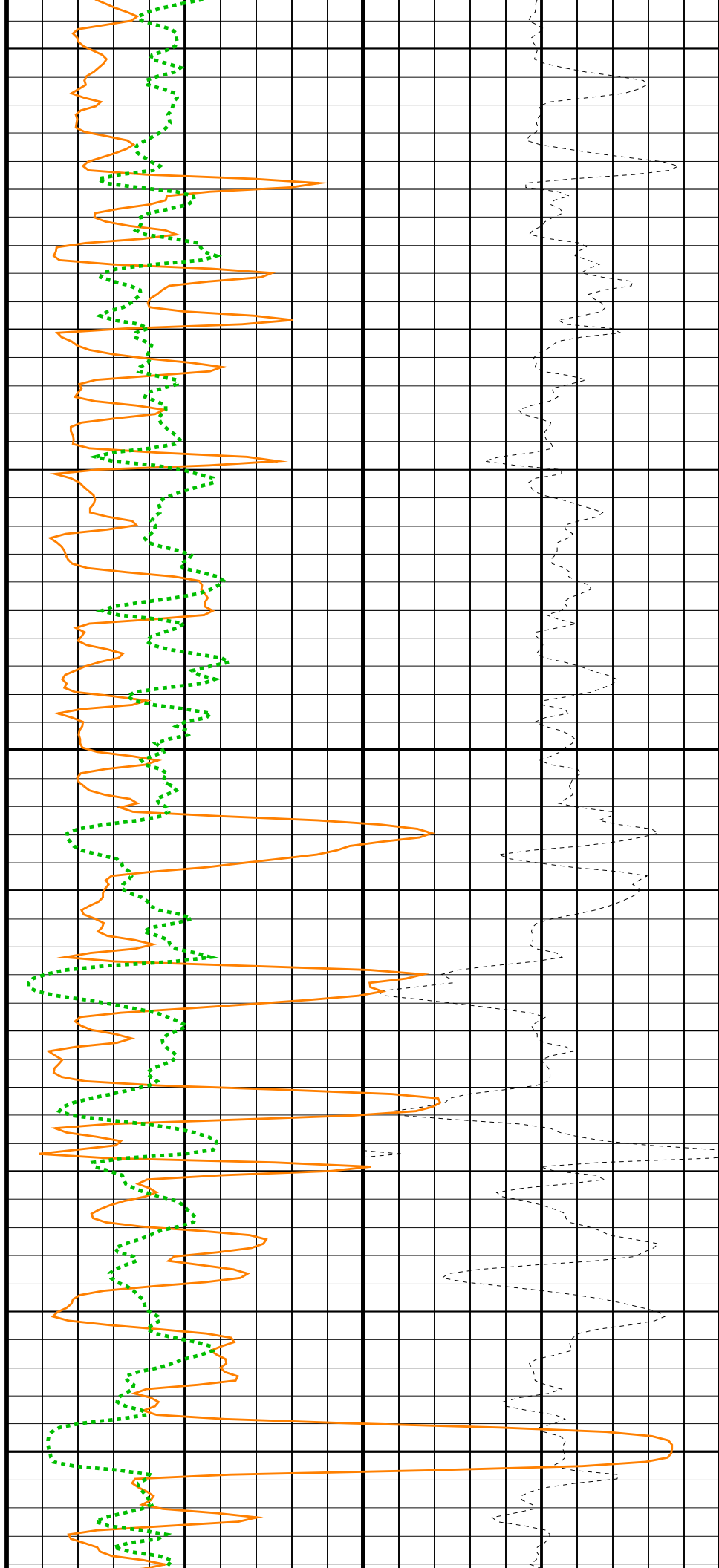


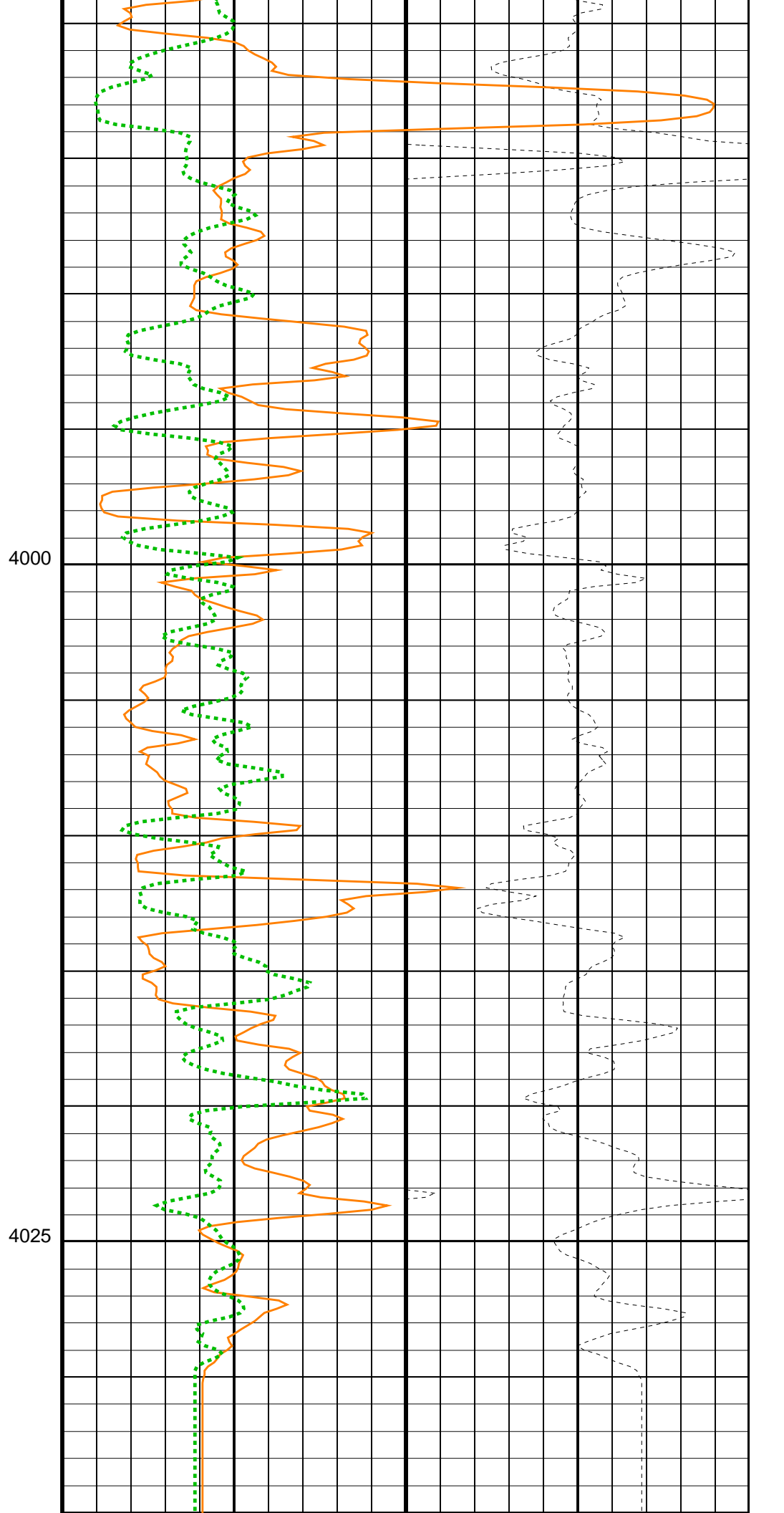
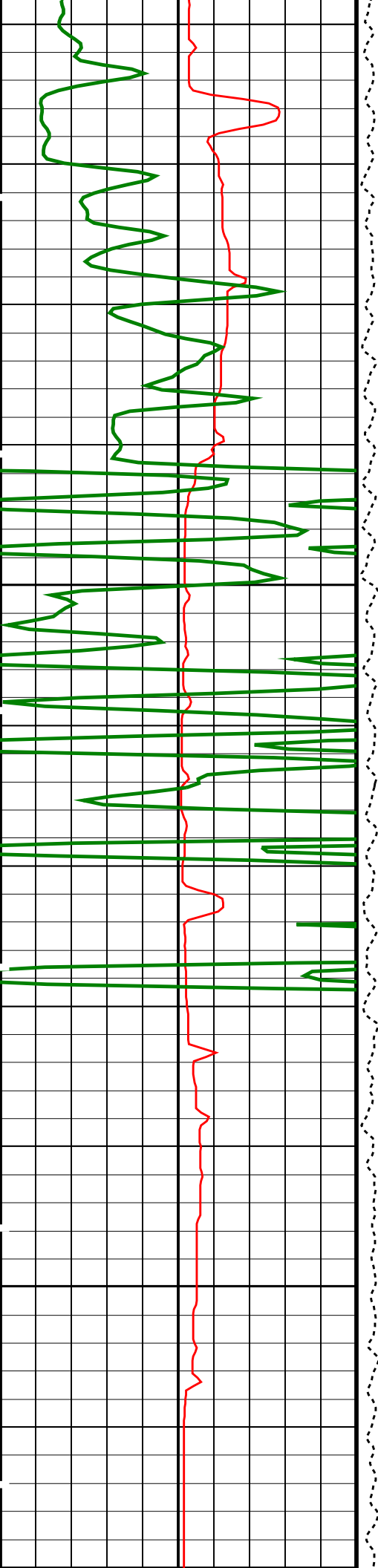


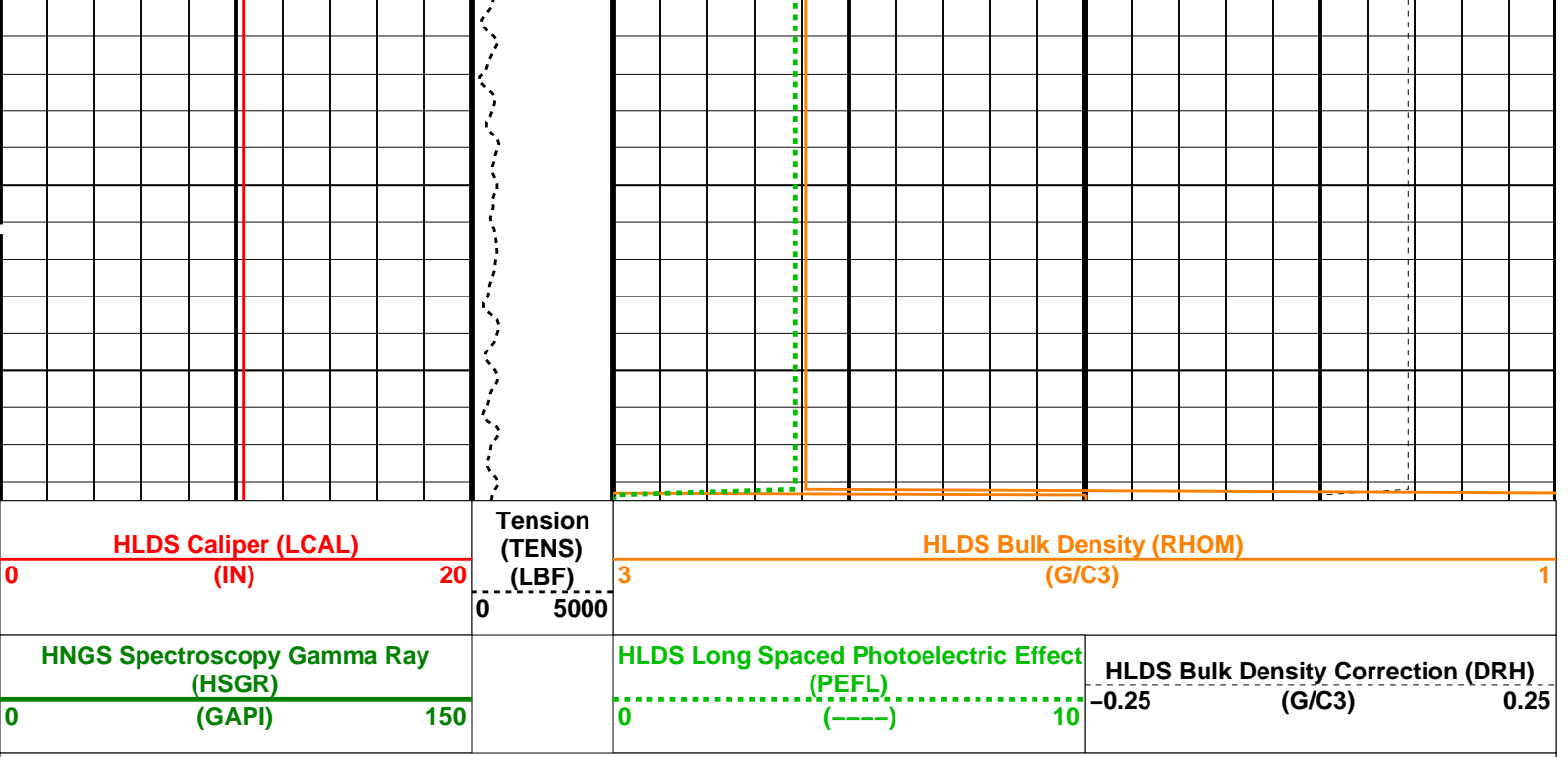
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PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
HLDS: Hostile Litho-Density Sonde		
DHC	Density Hole Correction	CALIPER
DPPM	Density Porosity Processing Mode	HIRS
FD	Fluid Density	1 G/C3
LATC	HLDS Activation Correction	OFF
MDEN	Matrix Density	2.71 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	-0.00180074
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	NATU
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.07483
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.0798
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	1.03 G/C3

OP System Version: 19C0-187

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

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_011LUP FN:10 PRODUCER 28-Jul-2022 02:31

Company: International Ocean Discovery Program

Well: Expedition 393, Site U1560B

Output DLIS Files

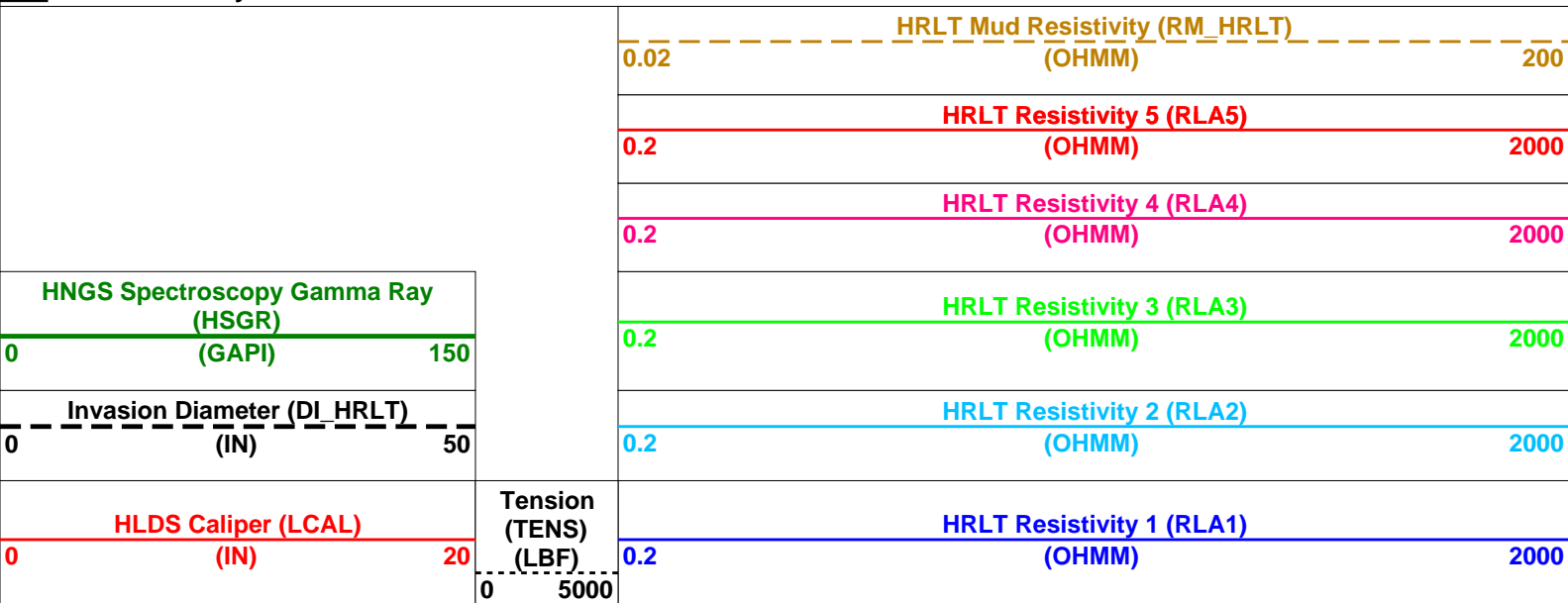
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OP System Version: 19C0-187

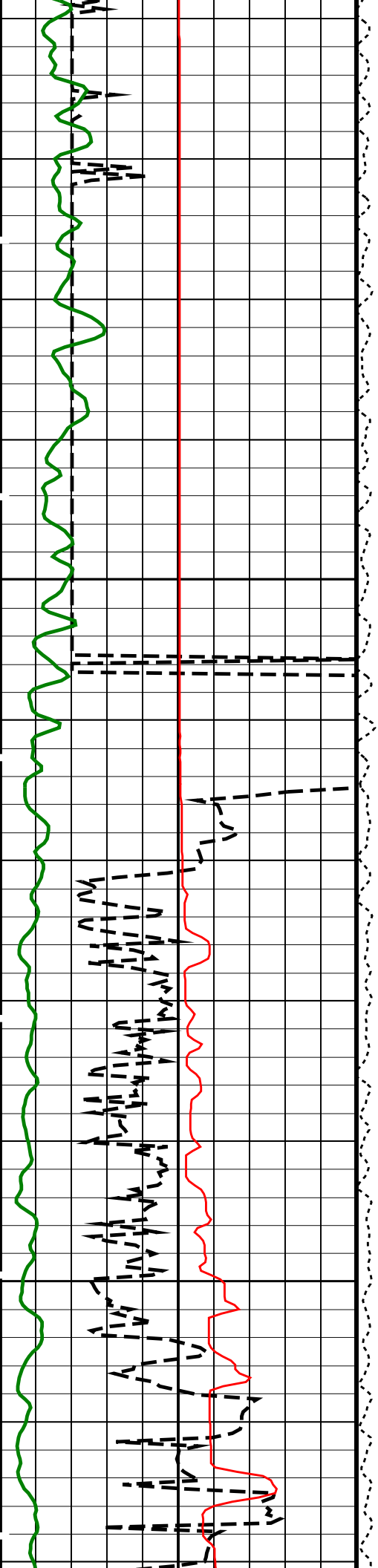
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APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S

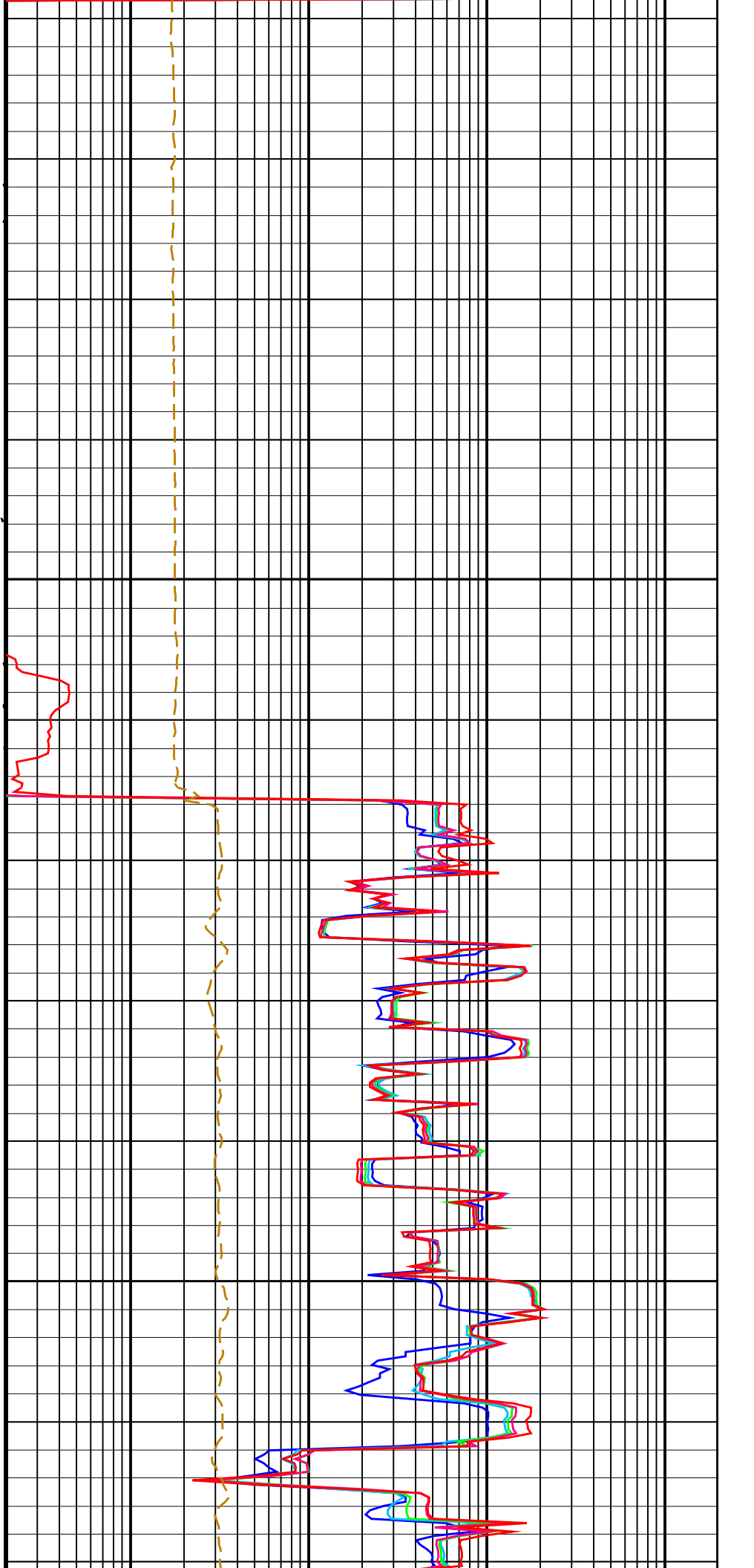


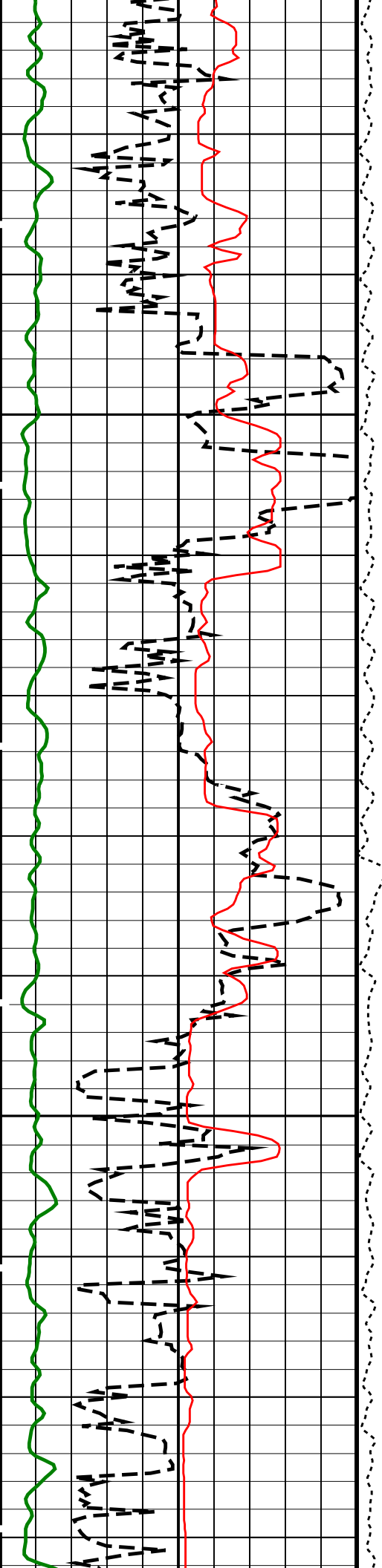
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3850

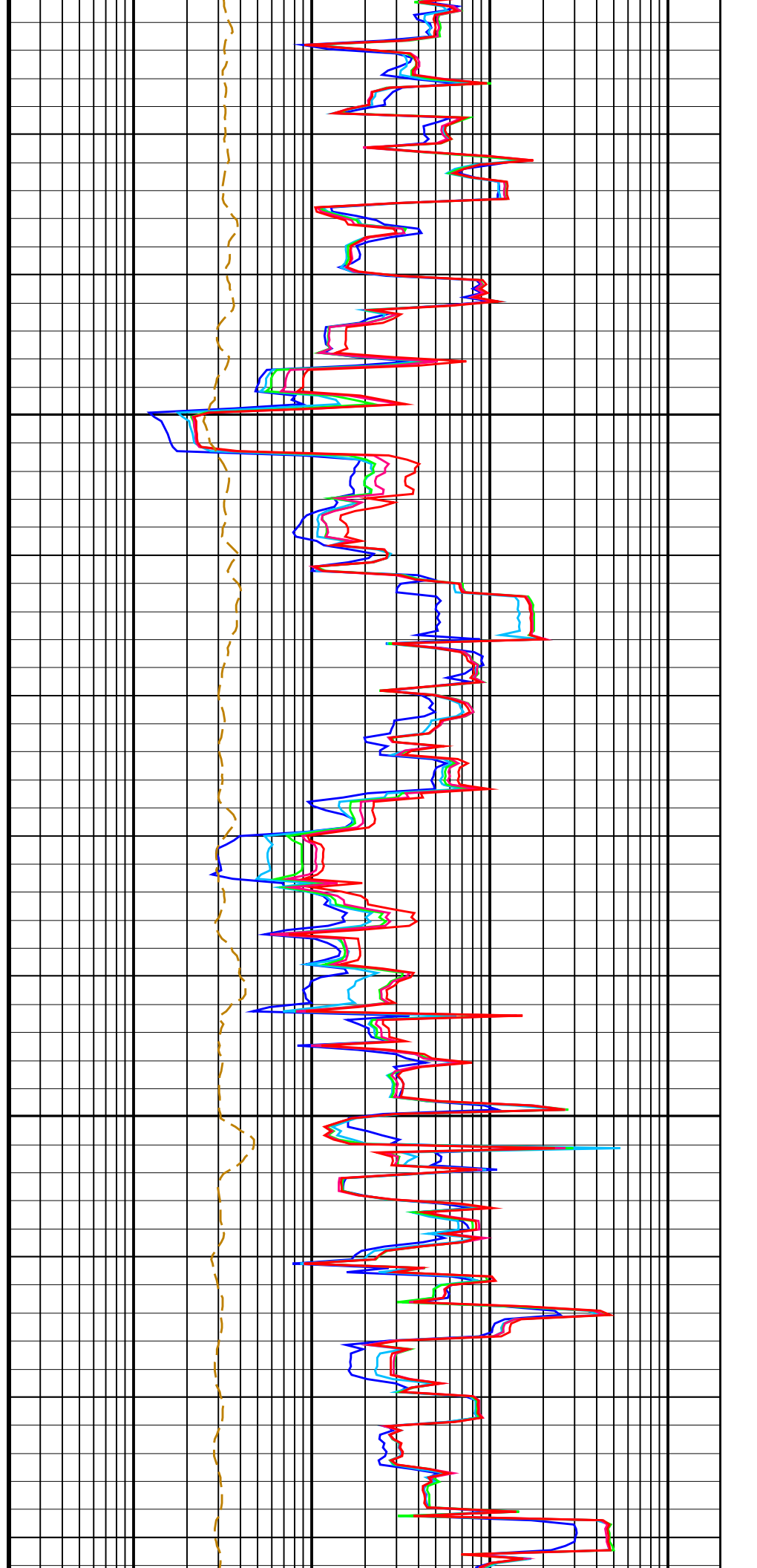
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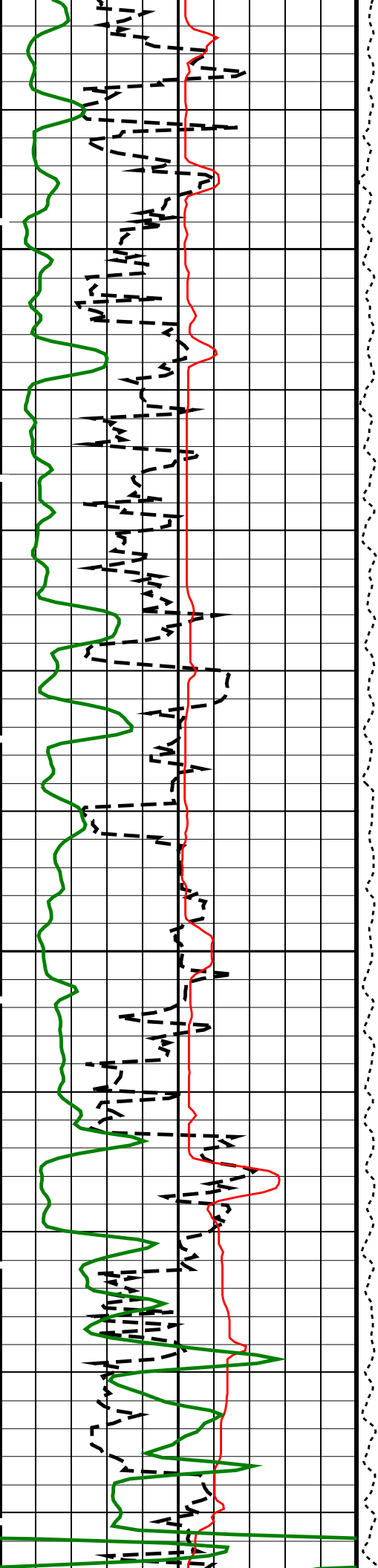




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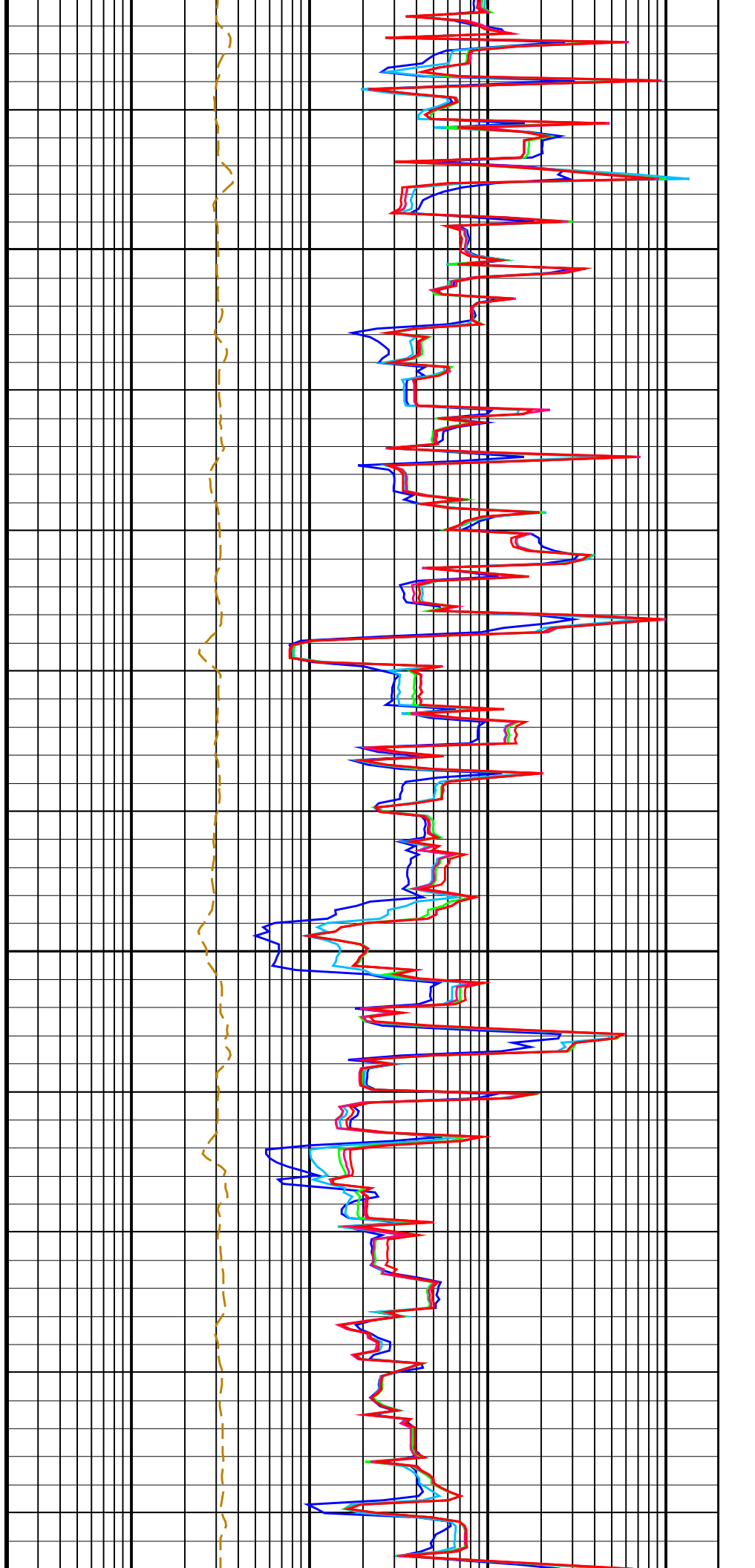
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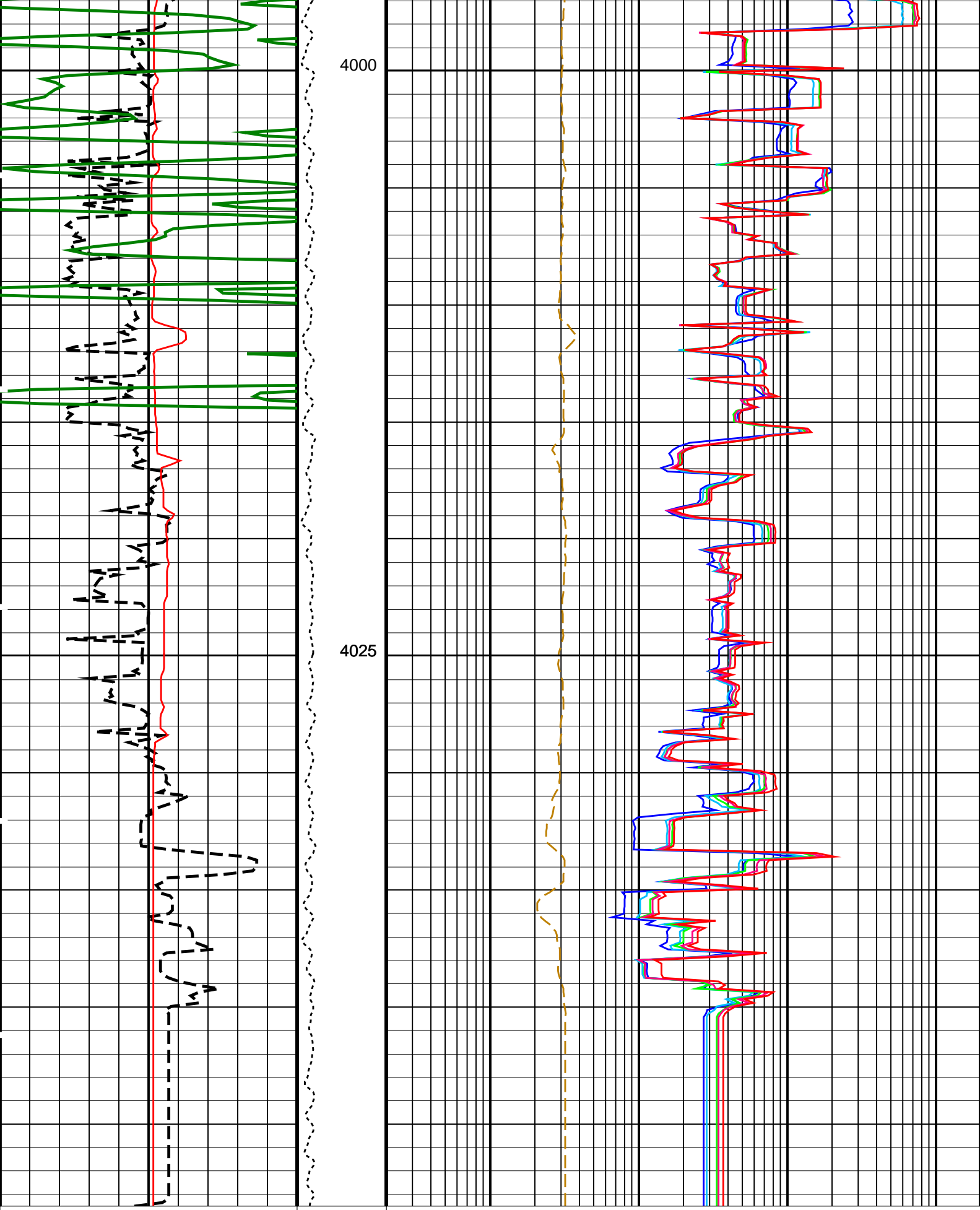




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<p style="text-align: center; color: red;">HLDS Caliper (LCAL)</p> <p style="text-align: center; color: red;">(IN)</p> <p style="text-align: center; color: red;">0 20</p>	<p style="text-align: center;">Tension (TENS) (LBF)</p> <p style="text-align: center;">0 5000</p>	<p style="text-align: center; color: blue;">HRLT Resistivity 1 (RLA1)</p> <p style="text-align: center; color: blue;">(OHMM)</p> <p style="text-align: center; color: blue;">0.2 2000</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

<p style="text-align: center; color: blue;">Invasion Diameter (DI) HRLT)</p>	<p style="text-align: center; color: blue;">HRLT Resistivity 2 (RLA2)</p>
-------------------------------------------------------------------------------------	----------------------------------------------------------------------------------

0	(IN)	50
HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	150

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)	20 DEGC
GCSE	Generalized Caliper Selection	LCAL
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
KFAC_HRLT	HRLT K Factor Option	SONDE
PROCIINV	Inversion Selection	ON
PROCMFL	Inversion Micro-Resistivity Selection	NO_EXTERNAL_RXO
PROCRM	Mechanical Standoff Fin Size	0 IN
PROCSPO	Sonde Position	HRLT_Compute
SHT	Surface Hole Temperature	Centered 20 DEGC
APS-C: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	20 DEGC
GCSE	Generalized Caliper Selection	LCAL
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	20 DEGC
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)	20 DEGC
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 IN
CSW1	Inner Casing Weight	0 LB/F
CSW2	Outer Casing Weight	0 LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE
GCSE	Generalized Caliper Selection	LCAL
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00180074
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	20 DEGC
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.07483
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.0798
EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	20 DEGC
GCSE	Generalized Caliper Selection	LCAL
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE

SHT	System and Miscellaneous	Surface Hole Temperature	20	DEGC
BS	Bit Size		9.875	IN
DFD	Drilling Fluid Density		1.03	G/C3
TD	Total Depth		10190.3	FT

Format: HRLT Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 02:31

OP System Version: 19C0-187

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

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_011LUP FN:10 PRODUCER 28-Jul-2022 02:31

Company: International Ocean Discovery Program Well: Expedition 393, Site U1560B

Output DLIS Files

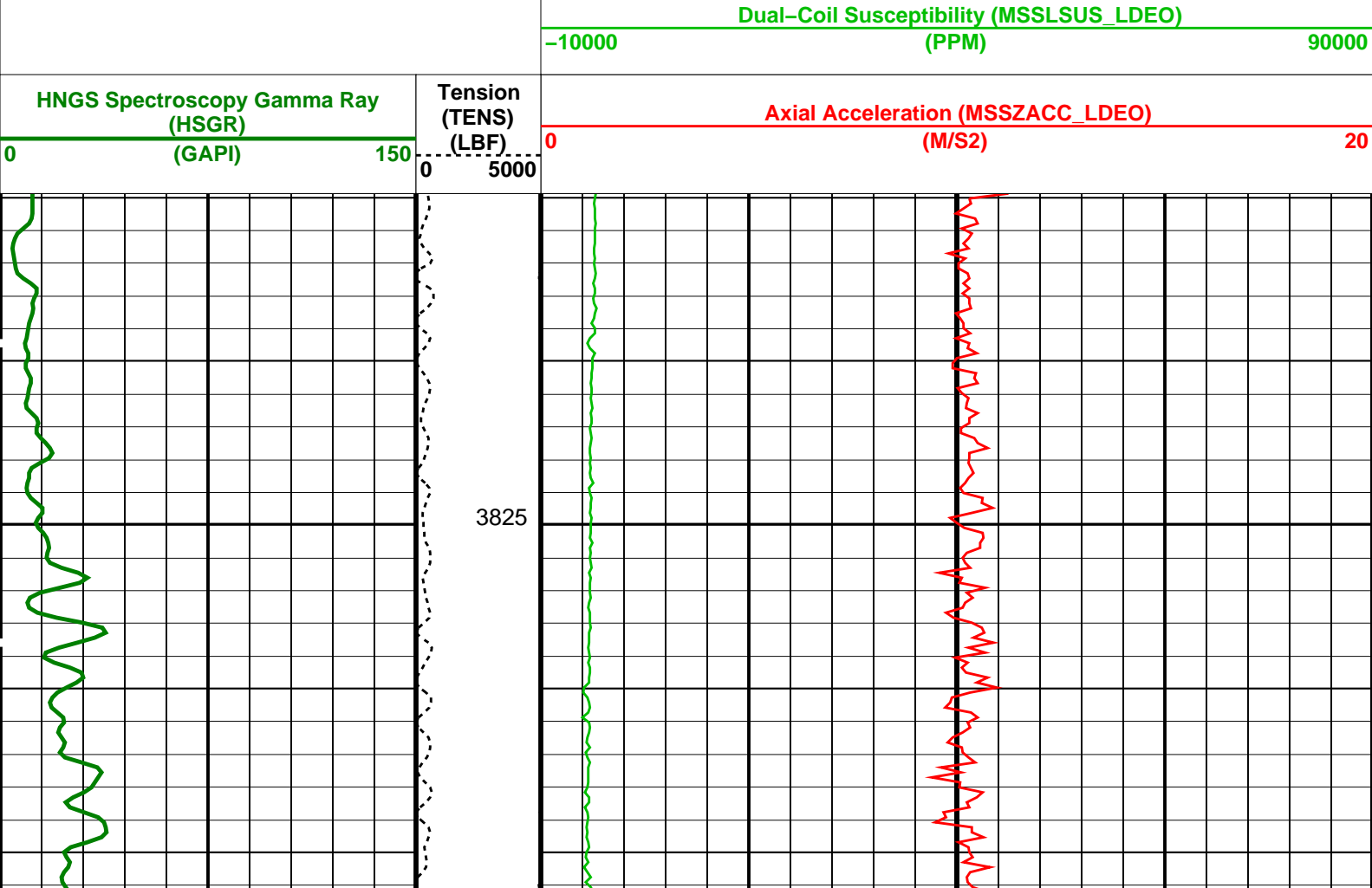
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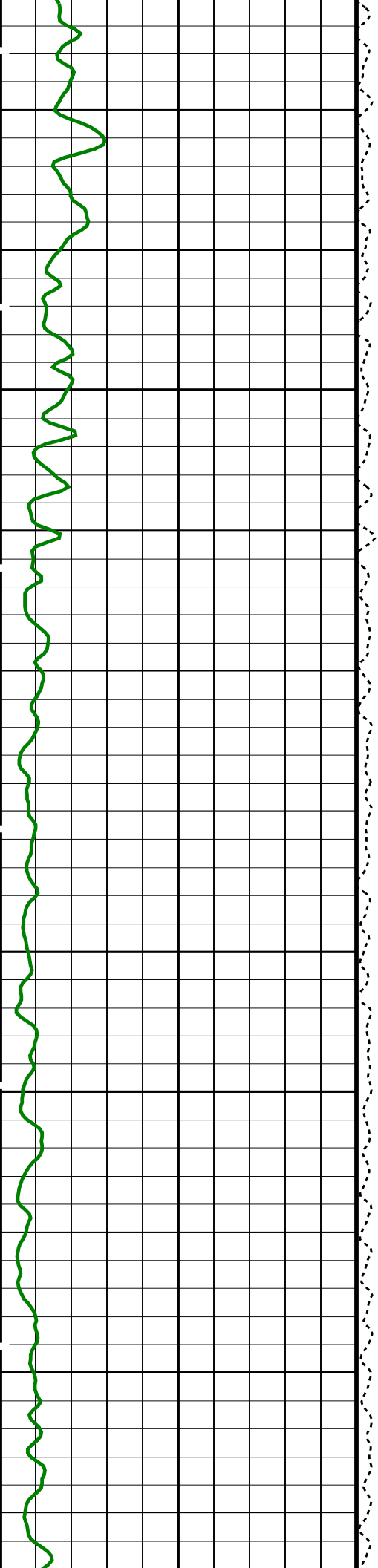
OP System Version: 19C0-187

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

PIP SUMMARY

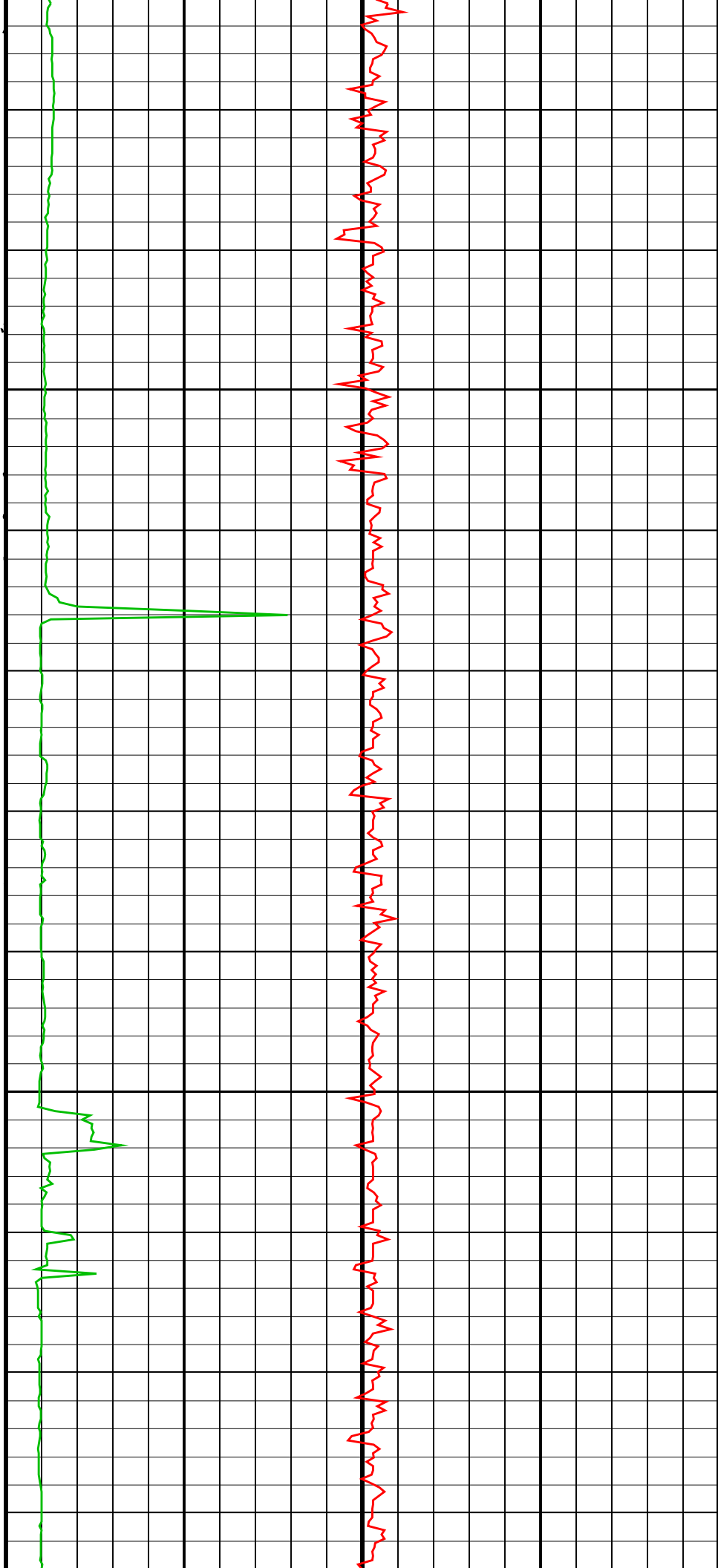
Time Mark Every 60 S

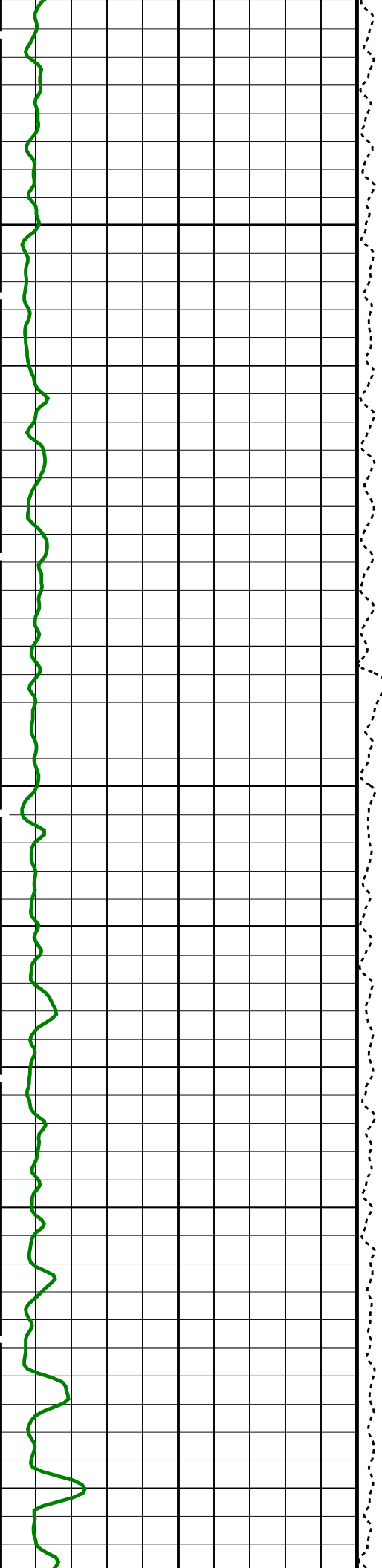




3850

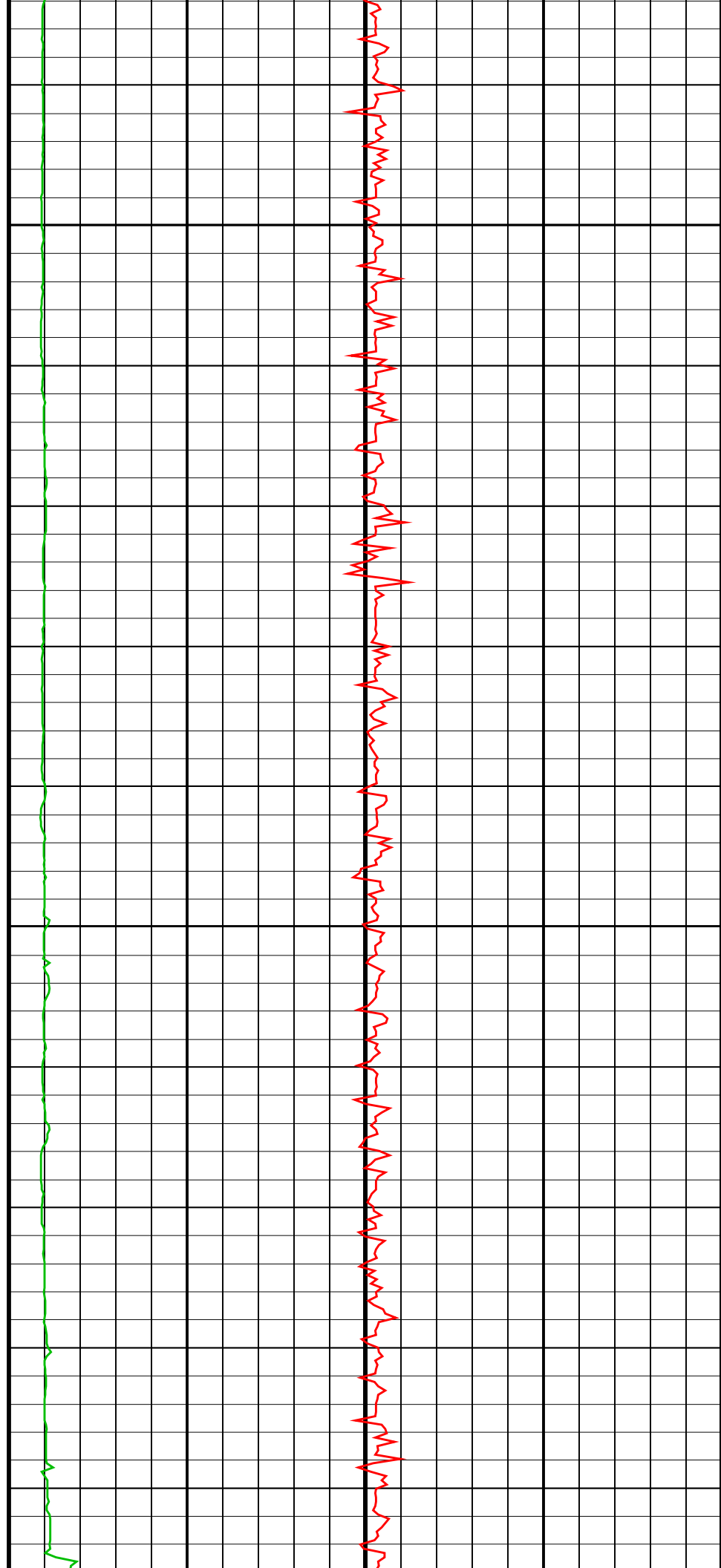
3875

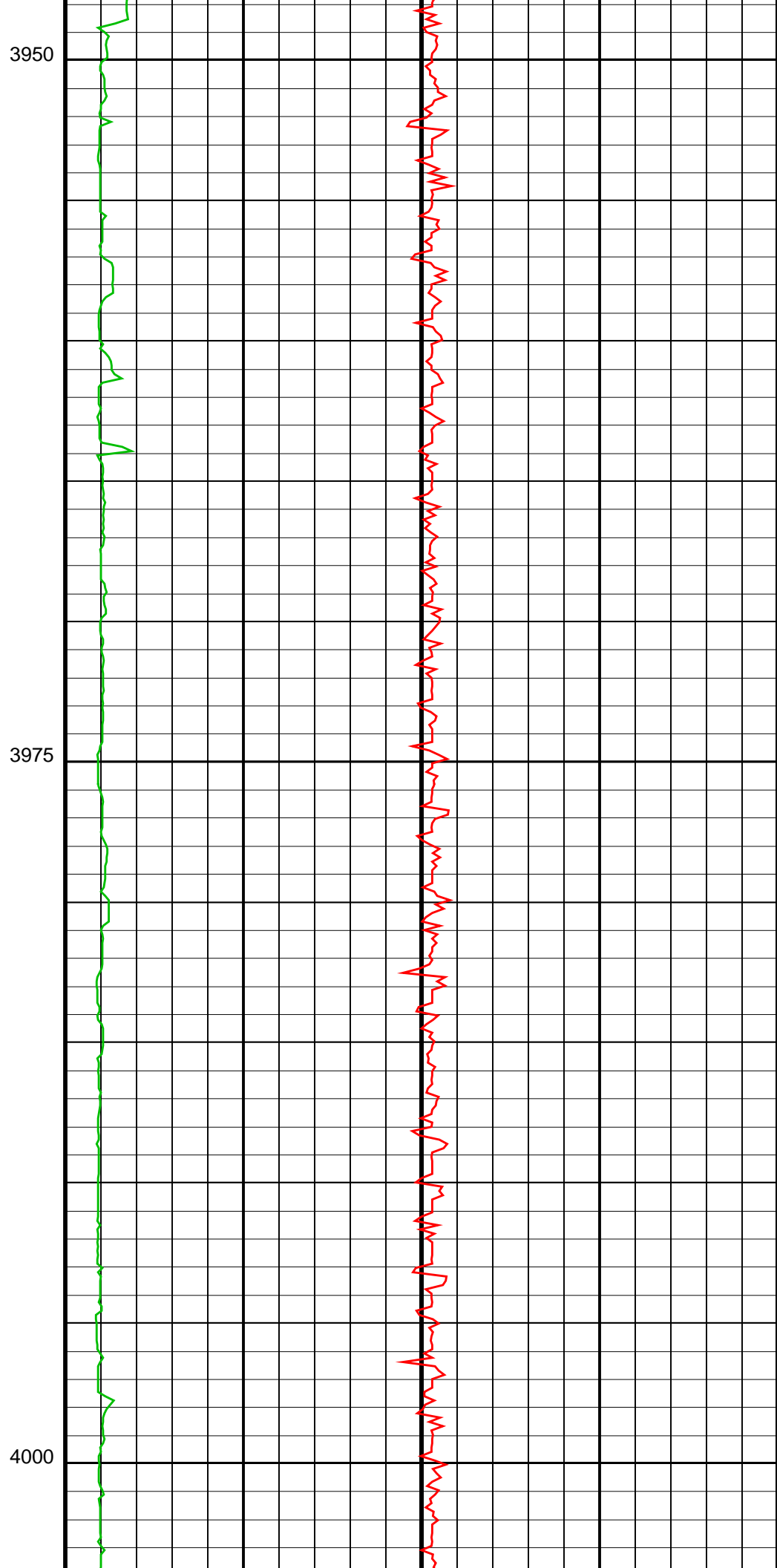
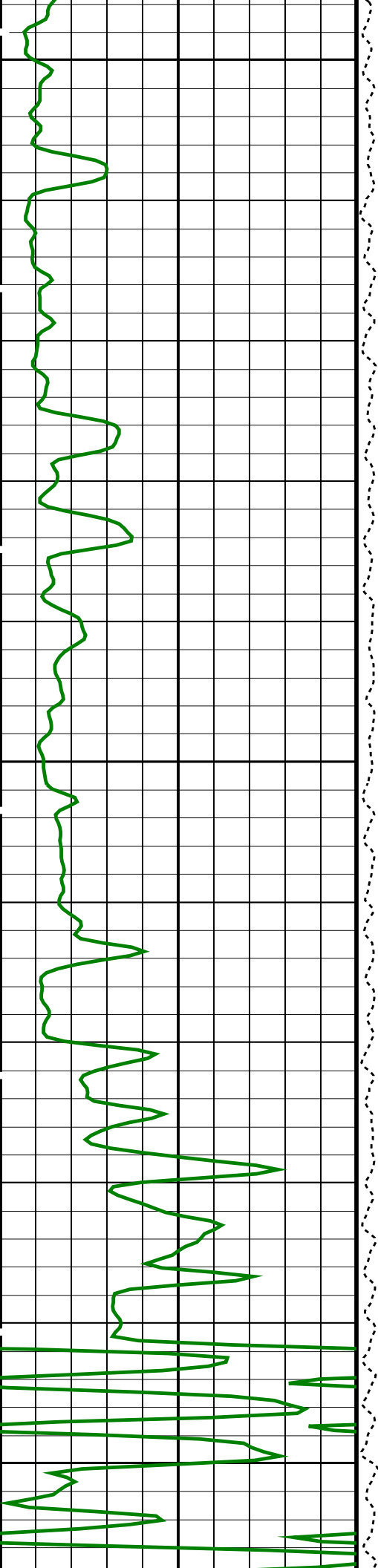


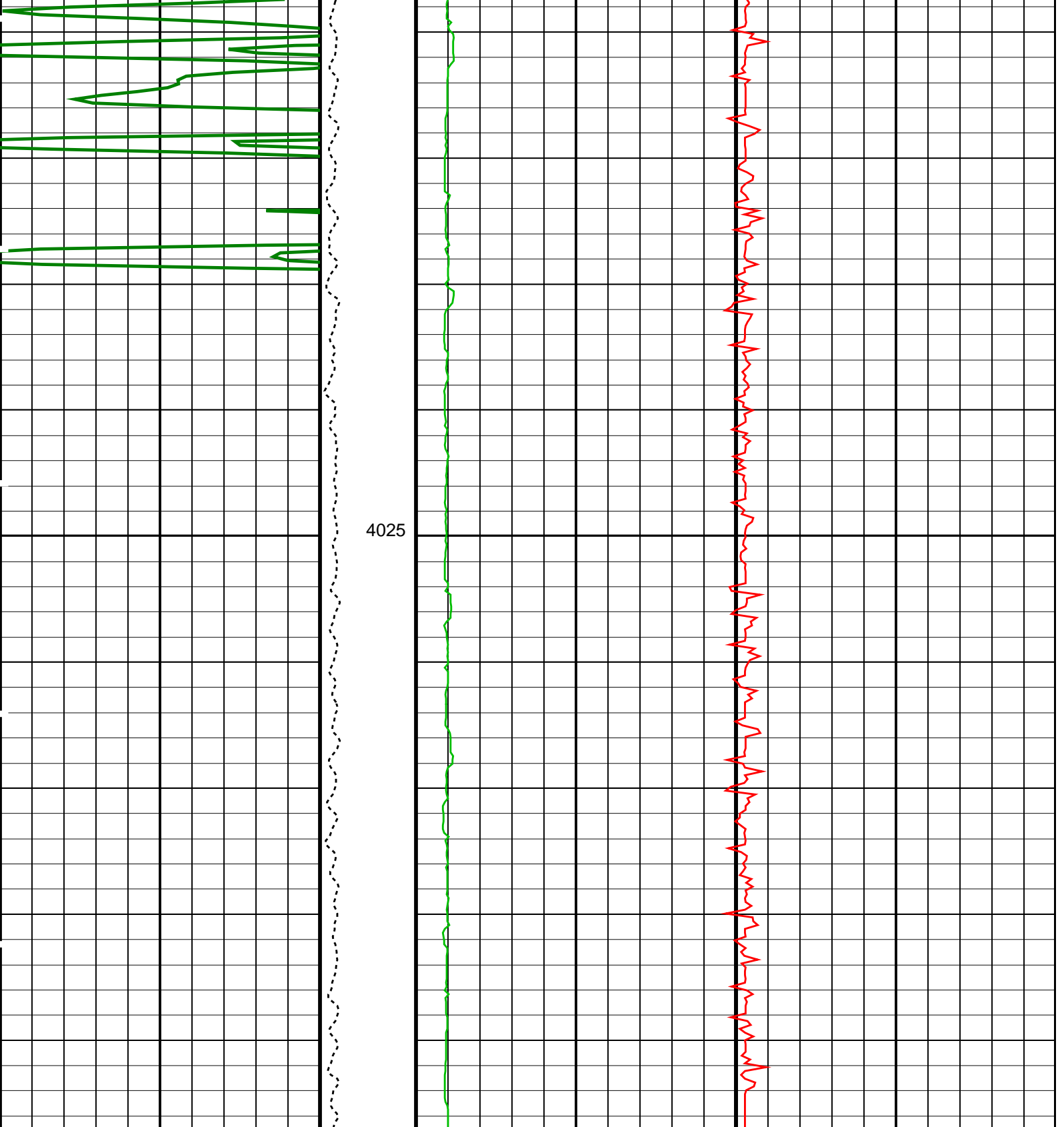


3900

3925







HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 150	Tension (TENS) (LBF) 0 5000	Axial Acceleration (MSSZACC_LDEO) (M/S ²) 0 20
		Dual-Coil Susceptibility (MSSLSUS_LDEO) (PPM) -10000 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	-0.00180074	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.07483	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.0798	
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	1.03	G/C3

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 28-Jul-2022 02:31

OP System Version: 19C0-187

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

Output DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_011LUP FN:10 PRODUCER 28-Jul-2022 02:31



Callibrations

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: 4-May-2022 20:43							
HRLT M0-M1 Voltage Plus – 0	0	N/A	-318.3	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-330.7	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-338.5	N/A	N/A	9.681	UV

HRLT M0-M1 Voltage Plus - 0	0	N/A	-328.8	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-319.7	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-321.6	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	319.9	N/A	N/A	9.681	UV
HRLT M0-M1 Voltage Plus - 7	0	N/A	-322.7	N/A	N/A	9.681	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT M12

Before: 4-May-2022 20:43

HRLT M1-M2 Voltage Plus - 0	0	N/A	1738	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1813	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1849	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1794	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1743	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1754	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1762	N/A	N/A	53.42	UV
HRLT M1-M2 Voltage Plus - 7	0	N/A	1781	N/A	N/A	53.42	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT M23

Before: 4-May-2022 20:43

HRLT M2-M3 Voltage Plus - 0	0	N/A	1730	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1815	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1853	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1801	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1745	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1757	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1753	N/A	N/A	53.42	UV
HRLT M2-M3 Voltage Plus - 7	0	N/A	1781	N/A	N/A	53.42	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V34

Before: 4-May-2022 20:43

HRLT A3-A4 Voltage Plus - 0	0	N/A	68590	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	71800	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	73570	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	71790	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	69500	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	70000	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-68340	N/A	N/A	2100	UV
HRLT A3-A4 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V45

Before: 4-May-2022 20:43

HRLT A4-A5 Voltage Plus - 0	0	N/A	68660	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	72000	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	73750	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	71950	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	69600	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	70090	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-68550	N/A	N/A	2100	UV
HRLT A4-A5 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V56

Before: 4-May-2022 20:43

HRLT A5-A6 Voltage Plus - 0	0	N/A	68510	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	71840	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	73590	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	71800	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	69490	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	69950	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-68390	N/A	N/A	2100	UV
HRLT A5-A6 Voltage Plus - 7	0	N/A	70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP

Before: 4-May-2022 20:43

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68040	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-71630	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-73430	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-71710	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-69420	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69910	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	68150	N/A	N/A	2100	UV
HRLT Torpedo-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VBD

Before: 4-May-2022 20:43

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68070	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-71720	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-73500	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-71780	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-69470	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69950	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	68240	N/A	N/A	2100	UV
HRLT Bridle#9-M0 Voltage - 7	0	N/A	-70000	N/A	N/A	2100	UV

High Resolution Laterolog Array – B Wellsite Calibration – HRLT ISO

Before: 4-May-2022 20:43

HRLT Source Current Plus – 0	0	N/A	284.0	N/A	N/A	8.520	UA
HRLT Source Current Plus – 1	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 2	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 3	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 4	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 5	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 6	0	N/A	281.1	N/A	N/A	8.520	UA
HRLT Source Current Plus – 7	0	N/A	281.1	N/A	N/A	8.520	UA

High Resolution Laterolog Array – B Wellsite Calibration – HRLT MV

Before: 4-May-2022 20:43

HRLT Vertical Voltage PI – 0	0	N/A	-320.0	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 1	0	N/A	-325.4	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 2	0	N/A	-331.9	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 3	0	N/A	-320.6	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 4	0	N/A	-308.8	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 5	0	N/A	-325.5	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 6	0	N/A	327.4	N/A	N/A	9.681	UV
HRLT Vertical Voltage PI – 7	0	N/A	-322.7	N/A	N/A	9.681	UV

Hostile Litho–Density Sonde Wellsite Calibration – Background Measurement

Master: Calibration out of date 7-Apr-2022 22:41 Before: 27-Jul-2022 22:06

SS Cs Resolution Bkg	9.000	8.010	8.154	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	7.678	7.858	N/A	N/A	1.800	%
LSW1 Background	100.0	58.91	57.45	N/A	N/A	3.000	CPS
LSW2 Background	100.0	53.03	53.33	N/A	N/A	3.000	CPS
LSW3 Background	200.0	117.9	116.9	N/A	N/A	6.000	CPS
LSW4 Background	250.0	142.0	142.8	N/A	N/A	7.500	CPS
LSW5 Background	600.0	328.3	324.3	N/A	N/A	18.00	CPS
SSW1 Background	100.0	66.11	64.83	N/A	N/A	3.000	CPS
SSW2 Background	200.0	116.3	116.0	N/A	N/A	6.000	CPS
SSW3 Background	500.0	311.2	309.3	N/A	N/A	15.00	CPS
SSW4 Background	270.0	163.1	162.1	N/A	N/A	8.100	CPS
SSW5 Background	200.0	118.9	116.8	N/A	N/A	6.000	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Aluminum Measurement

Master: Calibration out of date 8-Apr-2022 0:54

LSW1 Aluminum	600.0	425.7	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	625.0	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	755.3	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	380.7	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	351.8	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2010	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	5500	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	7680	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3178	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	386.3	N/A	N/A	N/A	N/A	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Lithology Measurement

Master: Calibration out of date 8-Apr-2022 0:49

LSW1 Iron	400.0	296.1	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	510.2	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	668.0	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	344.0	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	322.1	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1478	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4607	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	7034	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	2907	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	346.5	N/A	N/A	N/A	N/A	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Caliper Calibration

Before: Calibration out of date 8-Apr-2022 1:48

HLDS Caliper Small Ring	12.00	N/A	14.85	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	18.31	N/A	N/A	N/A	IN

Accelerator–Porosity Tool Wellsite Calibration – Detector Background

Master: Calibration out of date 3-May-2021 6:13 Before: 27-Jul-2022 22:08

Near Det Bkg Cntrate	30.00	25.16	25.70	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	24.05	26.17	N/A	N/A	N/A	CPS
Array–1 Det Bkg Cntrate	30.00	23.15	23.83	N/A	N/A	N/A	CPS
Array–2 Det Bkg Cntrate	30.00	23.93	25.29	N/A	N/A	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	26.33	24.43	N/A	N/A	N/A	CPS

Accelerator–Porosity Tool Wellsite Calibration – Calibration Ratios

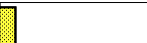

Master: Calibration out of date 3-May-2021 6:15

Near/Far Calibration Ratio	0.9250	0.9424	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.083	N/A	N/A	N/A	N/A	

Near/Array Cal Ratio Up/Down	1.000	1.016	N/A	N/A	N/A	N/A	N/A	
Accelerator-Porosity Tool Wellsite Calibration – Tank Check								
Master: Calibration out of date	3-May-2021 6:16							
Array-1 Standoff Porosity	11.75	11.04	N/A	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	10.88	N/A	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.997	N/A	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9943	N/A	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	0.9896	N/A	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.71	N/A	N/A	N/A	N/A	N/A	CU
Accelerator-Porosity Tool Wellsite Calibration – CCR7 signal boxes								
Master: Calibration out of date	3-May-2021 5:26							
Near Detector Plateau Setting	1650	1738	N/A	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2068	N/A	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1976	N/A	N/A	N/A	N/A	N/A	V
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check								
Master: Calibration out of date	2-May-2021 11:41		Before: 27-Jul-2022 22:08					
Na 511 Peak Loc	40.00	38.51	39.79	N/A	N/A	1.000		
Na 511 Peak Res	15.50	16.08	14.86	N/A	N/A	2.000		%
High Voltage	1150	1210	1196	N/A	N/A	N/A		V
Na 1785 Peak Loc	142.6	140.8	141.9	N/A	N/A	7.000		
Na 1785 Peak Res	8.500	9.038	8.841	N/A	N/A	2.000		%
Temperature	15.50	27.21	21.97	N/A	N/A	N/A		DEGC
Na Count Rate	45.00	10.57	6.891	N/A	N/A	8.000		CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check								
Master: Calibration out of date	2-May-2021 11:41		Before: 27-Jul-2022 22:08					
Na 511 Peak Loc	40.00	39.36	40.37	N/A	N/A	1.000		
Na 511 Peak Res	15.50	16.98	14.14	N/A	N/A	2.000		%
High Voltage	1150	1089	1082	N/A	N/A	N/A		V
Na 1785 Peak Loc	142.6	142.8	145.1	N/A	N/A	7.000		
Na 1785 Peak Res	8.500	9.374	10.13	N/A	N/A	2.000		%
Temperature	15.50	26.50	21.43	N/A	N/A	N/A		DEGC
Na Count Rate	45.00	10.57	6.908	N/A	N/A	8.000		CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2								
Master: Calibration out of date	2-May-2021 11:41		Before: 27-Jul-2022 22:08					
Coincidence Count Rate Ratio	1.000	0.9991	0.9989	N/A	N/A	0.05000		
Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration								
Before: 27-Jul-2022 22:04								
EDTC Z-Axis Acceleration	9.810	N/A	9.761	N/A	N/A	N/A		M/S2
Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration								
Before: Calibration out of date	4-May-2022 20:10							
Gamma Ray (Jig – Bkg)	113.6	N/A	113.6	N/A	N/A	10.33		GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.3	N/A	N/A	15.00		GAPI

Accelerator-Porosity Tool – Detector Plateau Settings :								
Near Detector Plateau Setting	1738 V							
Far Detector Plateau Setting	2068 V							
Array Detector Plateau Setting	1976 V							

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

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT M01							
Idx	Phase	HRLT M0-M1 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-318.3	-322.7	-280.7	-379.7	
1	Before		-330.7	-322.7	-280.7	-379.7	

2	Before		-338.5	-322.7	-280.7	-379.7
3	Before		-319.7	-322.7	-280.7	-379.7
4	Before		-321.6	-322.7	-280.7	-379.7
5	Before		319.9	322.7	379.7	280.7
6	Before		-322.7	-322.7	-280.7	-379.7
(Minimum) (Nominal) (Maximum)						
Before: 4-May-2022 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		1738	1781	2095	1549
1	Before		1813	1781	2095	1549
2	Before		1849	1781	2095	1549
3	Before		1794	1781	2095	1549
4	Before		1743	1781	2095	1549
5	Before		1754	1781	2095	1549
6	Before		-1762	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 4-May-2022 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
1	Before		1815	1781	2095	1549
2	Before		1853	1781	2095	1549
3	Before		1801	1781	2095	1549
4	Before		1745	1781	2095	1549
5	Before		1757	1781	2095	1549
6	Before		-1753	-1781	-1549	-2095
7	Before		1781	1781	2095	1549
(Minimum) (Nominal) (Maximum)						
Before: 4-May-2022 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		68590	70000	82360	60900
1	Before		71800	70000	82360	60900
2	Before		73570	70000	82360	60900
3	Before		71790	70000	82360	60900
4	Before		69500	70000	82360	60900
5	Before		70000	70000	82360	60900
6	Before		-68340	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
(Minimum) (Nominal) (Maximum)						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68660	70000	82360	60900
1	Before		72000	70000	82360	60900
2	Before		73750	70000	82360	60900
3	Before		71950	70000	82360	60900
4	Before		69600	70000	82360	60900
5	Before		70090	70000	82360	60900
6	Before		-68550	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5–A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68510	70000	82360	60900
1	Before		71840	70000	82360	60900
2	Before		73590	70000	82360	60900
3	Before		71800	70000	82360	60900
4	Before		69490	70000	82360	60900
5	Before		69950	70000	82360	60900
6	Before		-68390	-70000	-60900	-82360
7	Before		70000	70000	82360	60900
		(Minimum) (Nominal) (Maximum)				

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68040	-70000	-60900	-82360
1	Before		-71630	-70000	-60900	-82360
2	Before		-73430	-70000	-60900	-82360
3	Before		-71710	-70000	-60900	-82360
4	Before		-69420	-70000	-60900	-82360
5	Before		-69910	-70000	-60900	-82360
6	Before		68150	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
		(Minimum) (Nominal) (Maximum)				

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VBD						
Idx	Phase	HRLT Bridle#9–M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68070	-70000	-60900	-82360
1	Before		-71720	-70000	-60900	-82360
2	Before		-73500	-70000	-60900	-82360
3	Before		-71720	-70000	-60900	-82360

3	Before		-71780	-70000	-60900	-82360
4	Before		-69470	-70000	-60900	-82360
5	Before		-69950	-70000	-60900	-82360
6	Before		68240	70000	82360	60900
7	Before		-70000	-70000	-60900	-82360
			(Minimum)	(Nominal)	(Maximum)	

Before: 4-May-2022 20:43

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT ISO						
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum
0	Before		284.0	284.0	334.1	247.0
1	Before		281.1	281.1	330.7	244.4
2	Before		281.1	281.1	330.7	244.4
3	Before		281.1	281.1	330.7	244.4
4	Before		281.1	281.1	330.7	244.4
5	Before		281.1	281.1	330.7	244.4
6	Before		281.1	281.1	330.7	244.4
7	Before		281.1	281.1	330.7	244.4
			(Minimum)	(Nominal)	(Maximum)	

Before: 4-May-2022 20:43

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-320.0	-322.7	-280.7	-379.7
1	Before		-325.4	-322.7	-280.7	-379.7
2	Before		-331.9	-322.7	-280.7	-379.7
3	Before		-320.6	-322.7	-280.7	-379.7
4	Before		-308.8	-322.7	-280.7	-379.7
5	Before		-325.5	-322.7	-280.7	-379.7
6	Before		327.4	322.7	379.7	280.7
7	Before		-322.7	-322.7	-280.7	-379.7
			(Minimum)	(Nominal)	(Maximum)	

Before: 4-May-2022 20:43

Hostile Litho-Density Sonde / Equipment Identification		
Primary Equipment:		
Gamma Source Radioactive	GSR – ZA	2945
Hostile Litho Density Sonde	HLDS – D	35
Hostile Litho Density High Voltage	HLDV – D	35
Auxiliary Equipment:		
Hostile Litho Density High Voltage Housi	HEH – H	35
Hostile Litho Density Pad	HLDP – C	35

Hostile Litho-Density Sonde Wellsite Calibration										
Background Measurement										
Phase	SS Cs Resolution Bkg %	Value	Phase	LS Cs Resolution Bkg %	Value	Phase	LSW1 Background CPS			
Master		8.010	Master		7.678	Master				
Before		8.154	Before		7.858	Before				
7.000		9.000	11.00	7.000		9.000	11.00	55.00	100.0	150.0

(Minimum) (Nominal) (Maximum)			(Minimum) (Nominal) (Maximum)			(Minimum) (Nominal) (Maximum)		
Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value	Phase	LSW4 Background CPS	Value
Master		53.03	Master		117.9	Master		142.0
Before		53.33	Before		116.9	Before		142.8
	50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)			140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)	
Phase	LSW5 Background CPS	Value	Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value
Master		328.3	Master		66.11	Master		116.3
Before		324.3	Before		64.83	Before		116.0
	330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)			55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)	
Phase	SSW3 Background CPS	Value	Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value
Master		311.2	Master		163.1	Master		118.9
Before		309.3	Before		162.1	Before		116.8
	280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)			150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)	
Master: Calibration out of date 7-Apr-2022 22:41			Before: 27-Jul-2022 22:06					

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	65535
	APS Minitron	MNTR - F	65535
Auxiliary Equipment:	Accelerator-Porosity Housing	APH - AC	152
	APS Calibration Water Tank	SFT - 178	1
	APS Aluminum Calibrator Sleeve	SFT - 281	1

Accelerator-Porosity Tool Wellsite Calibration

Detector Background

Near Det Bkg Cntrate CPS			Far Det Bkg Cntrate CPS			Array-1 Det Bkg Cntrate CPS		
Phase	Near Det Bkg Cntrate CPS	Value	Phase	Far Det Bkg Cntrate CPS	Value	Phase	Array-1 Det Bkg Cntrate CPS	Value
Master		25.16	Master		24.05	Master		23.15
Before		25.70	Before		26.17	Before		23.83
	1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)	
Phase	Array-2 Det Bkg Cntrate CPS	Value	Phase	Array Therm Det Bkg Cntrate CPS	Value			
Master		23.93	Master		26.33			
Before		25.29	Before		24.43			
	1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)				
Master: Calibration out of date 3-May-2021 6:13			Before: 27-Jul-2022 22:08					

Accelerator-Porosity Tool Wellsite Calibration

Calibration Ratios

Near/Far Calibration Ratio			Near/Array Calibration Ratio			Near/Array Cal Ratio Up/Down		
Phase	Near/Far Calibration Ratio	Value	Phase	Near/Array Calibration Ratio	Value	Phase	Near/Array Cal Ratio Up/Down	Value
Master		0.9424	Master		1.083	Master		1.016
	0.8000 (Minimum) 0.9250 (Nominal) 1.050 (Maximum)			0.9000 (Minimum) 1.030 (Nominal) 1.170 (Maximum)			0.9700 (Minimum) 1.000 (Nominal) 1.030 (Maximum)	
Master: Calibration out of date 3-May-2021 6:15								

Accelerator-Porosity Tool Wellsite Calibration

Tank Check

Array-1 Standoff Porosity PU		Array-2 Standoff Porosity PU		Average Slowing Down Time US				
Phase	Array-1 Standoff Porosity PU	Value	Phase	Array-2 Standoff Porosity PU	Value	Phase	Average Slowing Down Time US	Value

Master		11.04	Master		10.88	Master		5.997
	9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			9.900 (Minimum) 11.75 (Nominal) 13.60 (Maximum)			5.500 (Minimum) 6.000 (Nominal) 6.250 (Maximum)	
Phase	Array-1 SDT Ratio Up/Down	Value	Phase	Array-2 SDT Ratio Up/Down	Value	Phase	Sigma Formation CU	Value
Master		0.9943	Master		0.9896	Master		27.71
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)			20.00 (Minimum) 27.50 (Nominal) 35.00 (Maximum)	
Master: Calibration out of date 3-May-2021 6:16								

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment: HNGC Cartridge	HNGC – B	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 Gamma Source Radioactive	HNSH – BA GSR – U	174 6098

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check



Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		38.51	Master		16.08	Master		1210
Before		39.79	Before		14.86	Before		1196
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		140.8	Master		9.038	Master		27.21
Before		141.9	Before		8.841	Before		21.97
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		10.57						
Before		6.891						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: Calibration out of date 2-May-2021 11:41 Before: 27-Jul-2022 22:08								

Hostile Natural Gamma Ray Sonde Wellsite Calibration


Detector 2 Check




Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		39.36	Master		16.98	Master		1089
Before		40.37	Before		14.14	Before		1082
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		142.8	Master		9.374	Master		26.50
Before		145.1	Before		10.13	Before		21.43
	135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)	
Phase	Na Count Rate CPS	Value						
Master		10.57						
Before		6.908						


10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)
Master: Calibration out of date 2-May-2021 11:41 Before: 27-Jul-2022 22:08		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9991
Before		0.9989
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	
Master: Calibration out of date 2-May-2021 11:41 Before: 27-Jul-2022 22:08		

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		9.761
	9.610 (Minimum) 9.810 (Nominal) 10.01 (Maximum)	
Before: 27-Jul-2022 22:04		

Enhanced DTS Cartridge Wellsite Calibration									
Detector Calibration									
Phase	Gamma Ray Background GAPI	Value	Phase	Gamma Ray (Jig - Bkg) GAPI	Value	Phase	Gamma Ray (Calibrated) GAPI	Value	
Before		1.524	Before		113.6	Before		165.3	
	0 (Minimum) 30.00 (Nominal) 120.0 (Maximum)			103.3 (Minimum) 113.6 (Nominal) 124.0 (Maximum)			150.0 (Minimum) 165.0 (Nominal) 180.0 (Maximum)		
Before: Calibration out of date 4-May-2022 20:10									

Company:	International Ocean Discovery Program	
Well:	Expedition 393, Site U1560B	
Field:	South Atlantic Transect II	
Rig:	JOIDES Resolution	
Country:	South Africa	
High Resolution Laterolog (HRLA) Acc Porosity (APC) Litho Density (HLDS) Natural Gamma / MSS (HNCS)		