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OTHER SERVICES1

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

OTHER SERVICES2

OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1

Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8" BS

REMARKS: RUN NUMBER 2

Drill pipe set at 72 mbsf for wireline logging.

Downlog run with corrections computed using bit size; uplogs corrected for actual hole size using caliper.

Fluid type was sepiolite+barite at 11 lbs/gal. Corrections for this applied.

Depth originally recorded from drill floor; played back with sea floor as reference zero.

All logs presented in measured depth below sea floor (MDBSF).

Maximum observed temperature on the MSS temperature was 25 degC.

RUN 1

SERVICE ORDER #:
 PROGRAM VERSION: 19C0-187
 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

GSR-U 616008
 WITM (EDTS)-A 1

DOWNHOLE EQUIPMENT

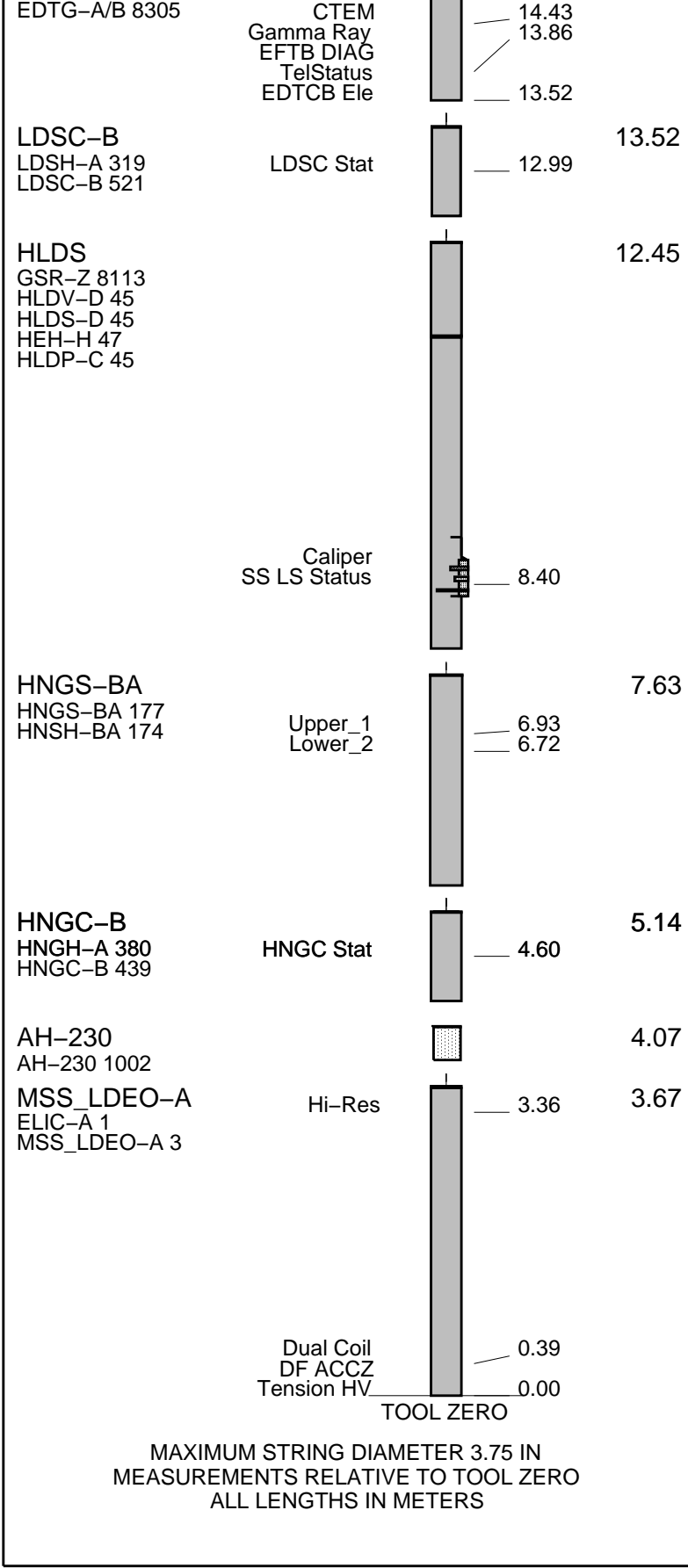
LEH-QT 16.39
 LEH-QT 301

MDSB_EDTC
 Mud Tempe



15.50
 15.50

EDTC-B
 EDTH-B 8303
 EDTC-B 8317

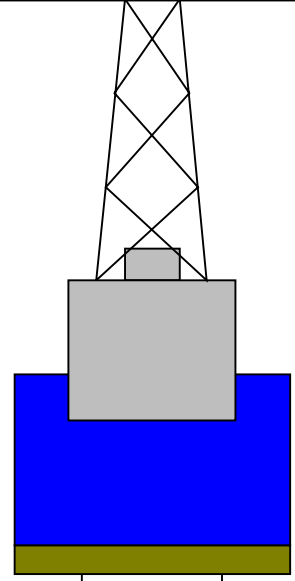


Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-203
-203
-192



4.1



0
72
400

4.1
9.875

Sea Floor
Open Hole
Total Depth

Input DLIS Files

DEFAULT MSS_LDEO_NGS_LDL_022PUP FN:35 PRODUCER 12-Aug-2015 04:16 592.1 M 180.4 M

Output DLIS Files

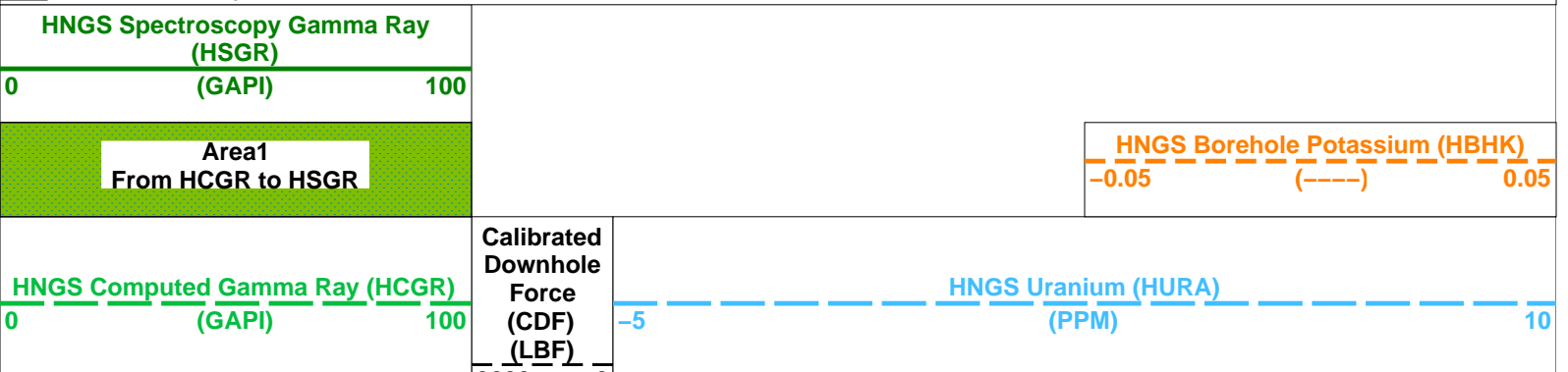
DEFAULT MSS_LDEO_NGS_LDL_029PUP FN:41 PRODUCER 17-Aug-2015 00:42 387.1 M -24.5 M

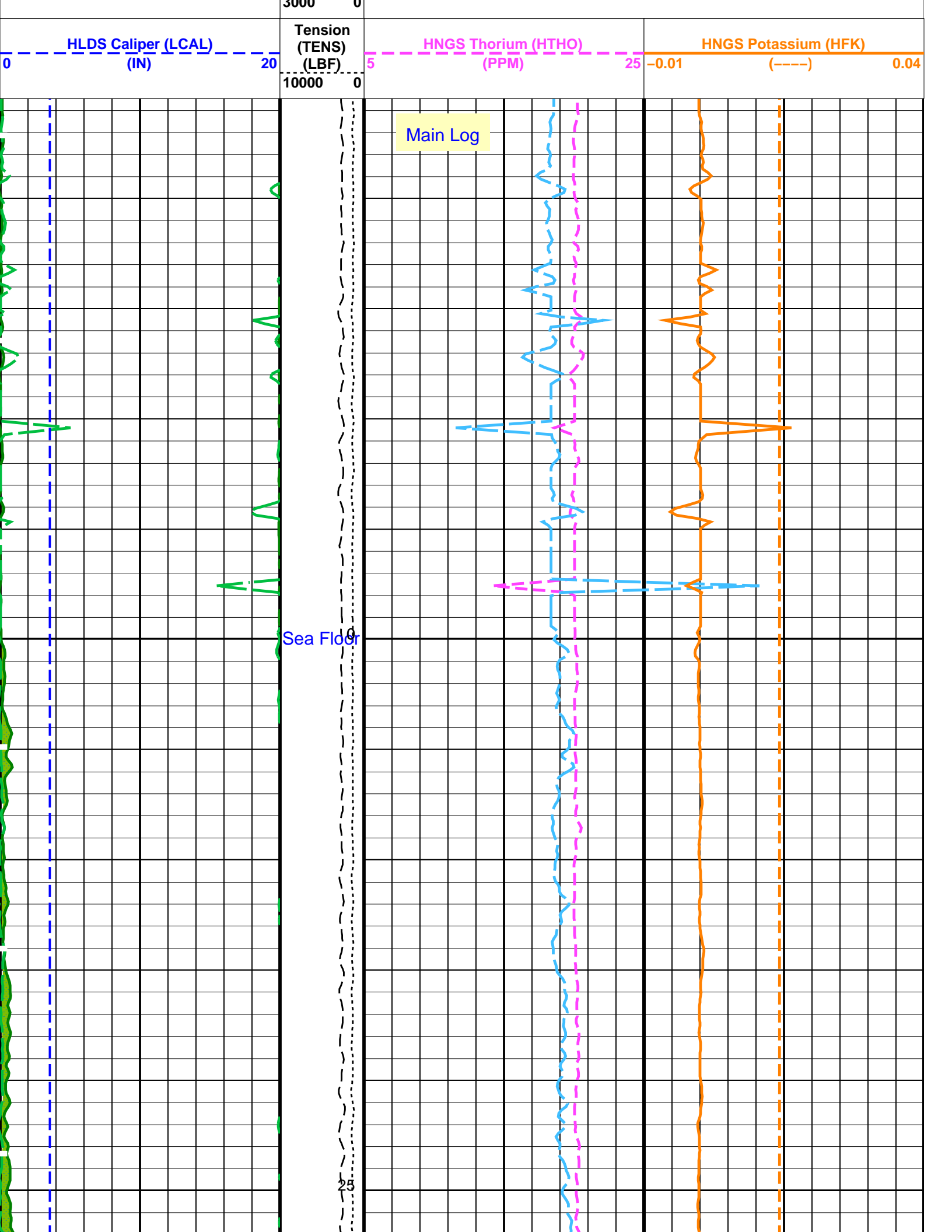
OP System Version: 19C0-187

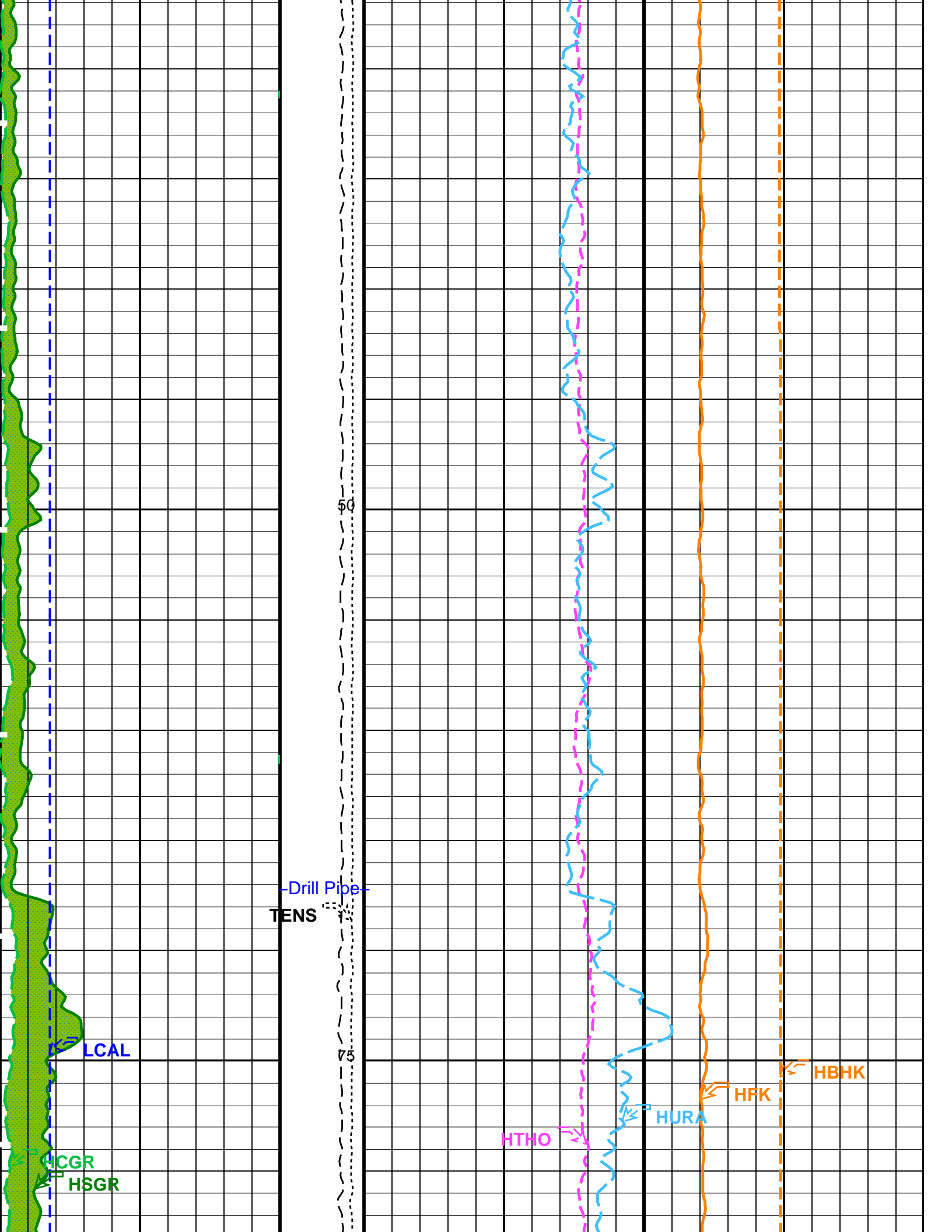
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HNGS-BA	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S







50

Drill Pipe
TENS

75

LCAL

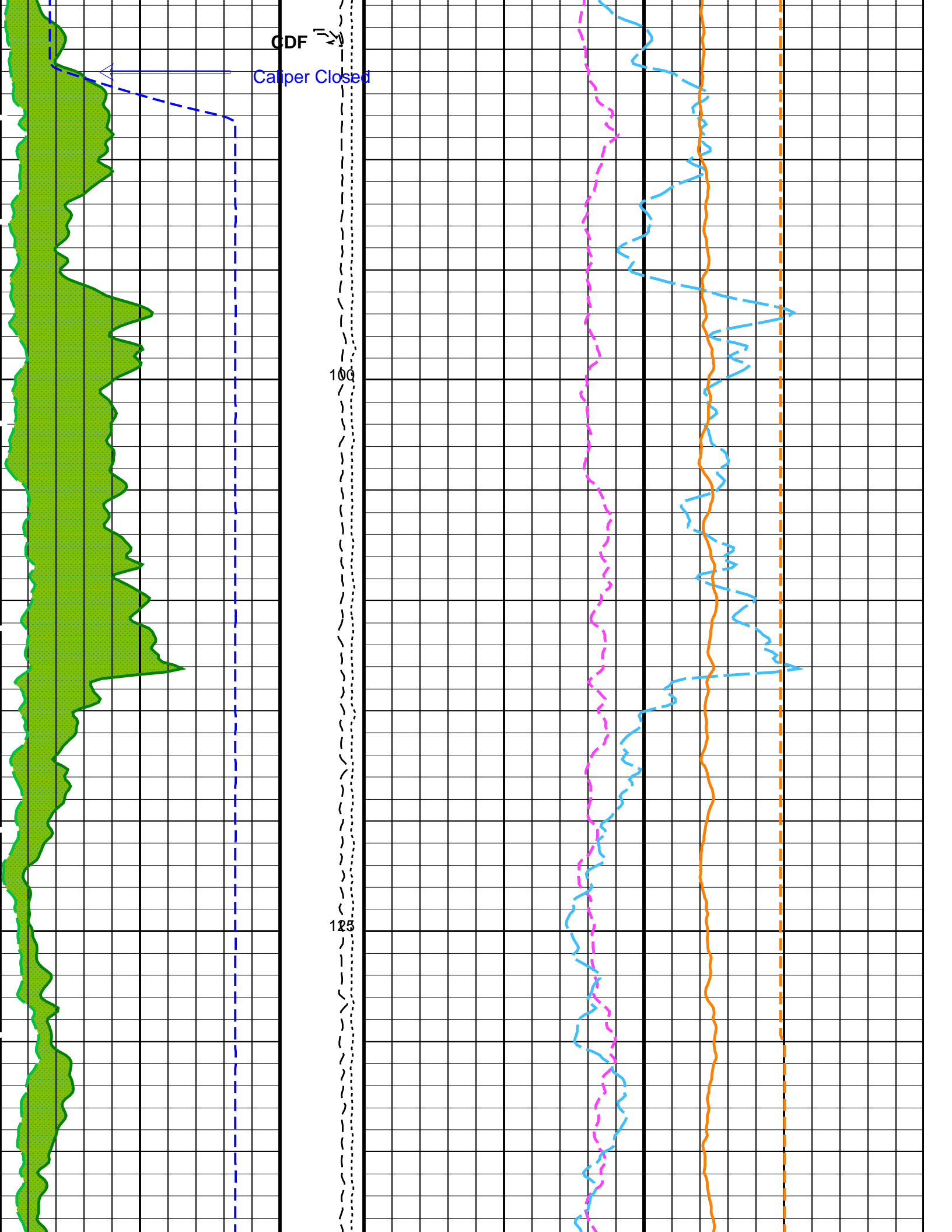
HCGR
HSGR

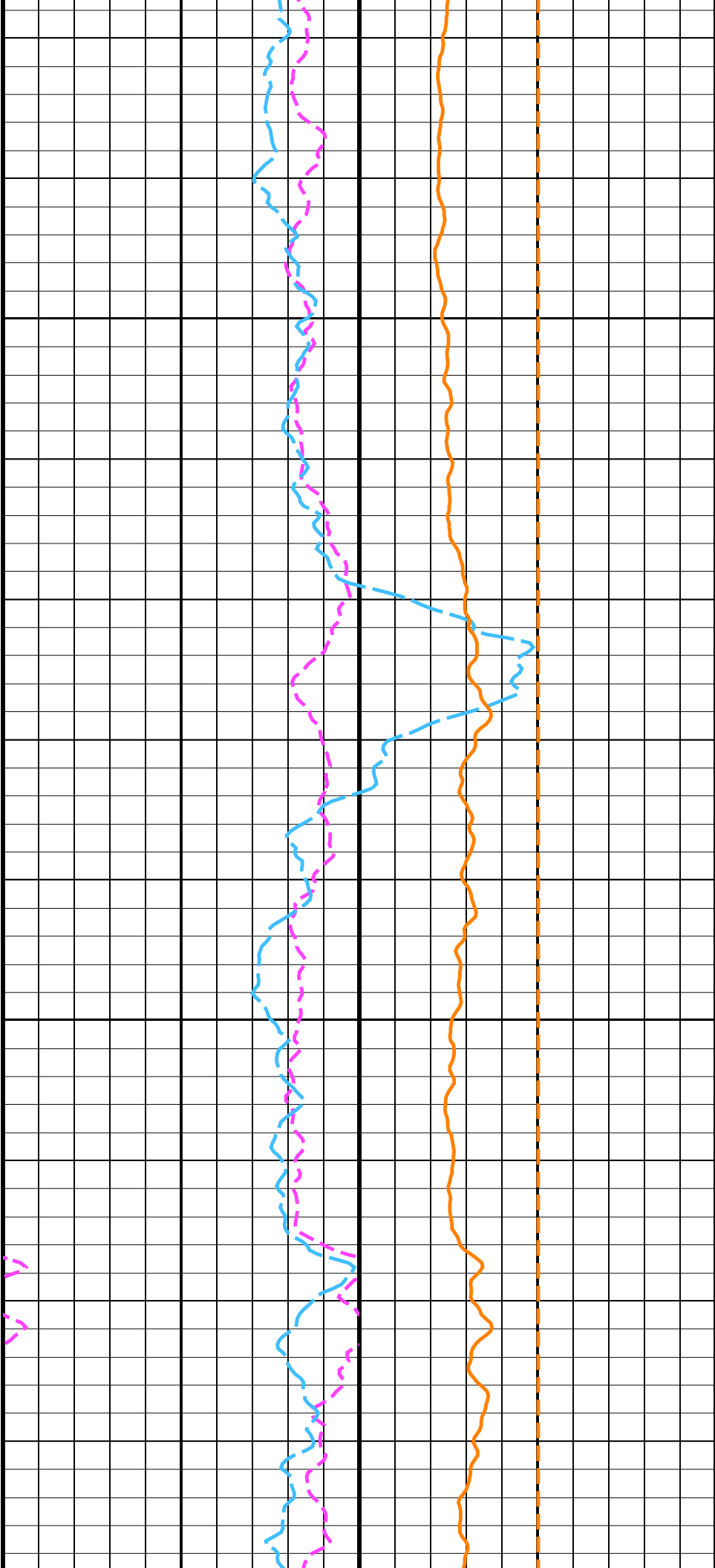
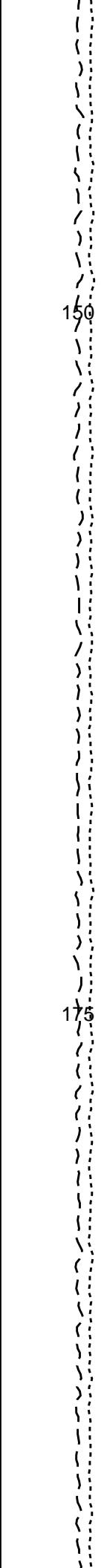
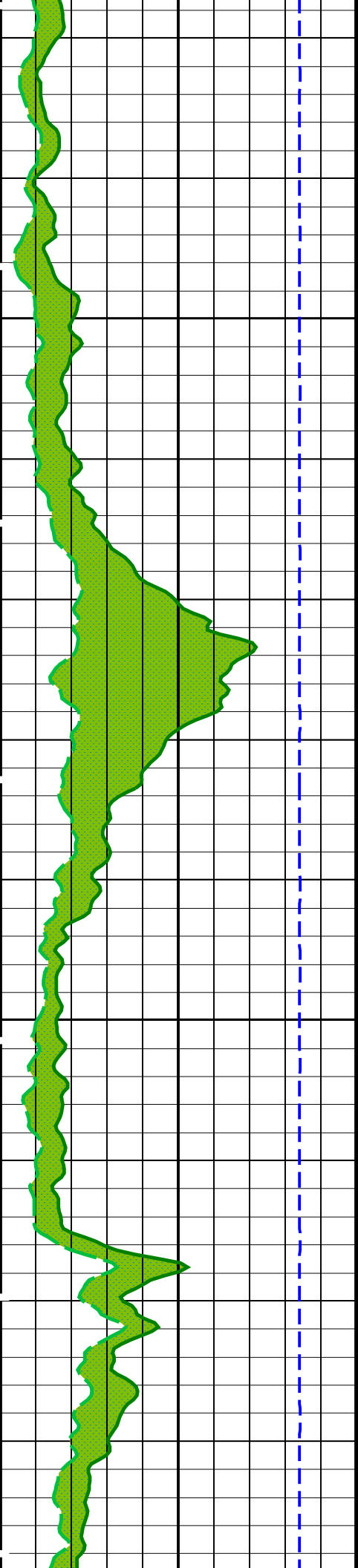
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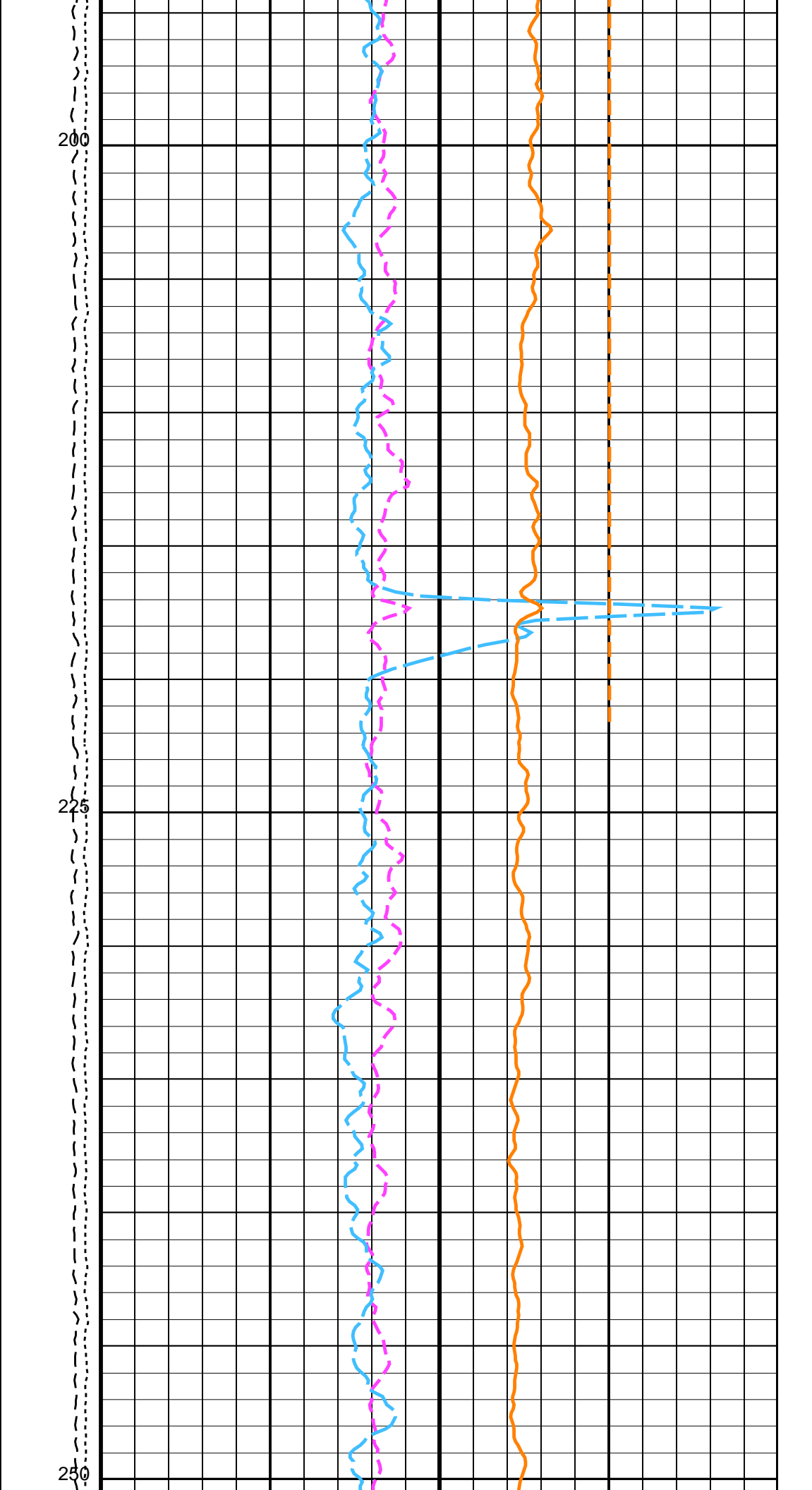
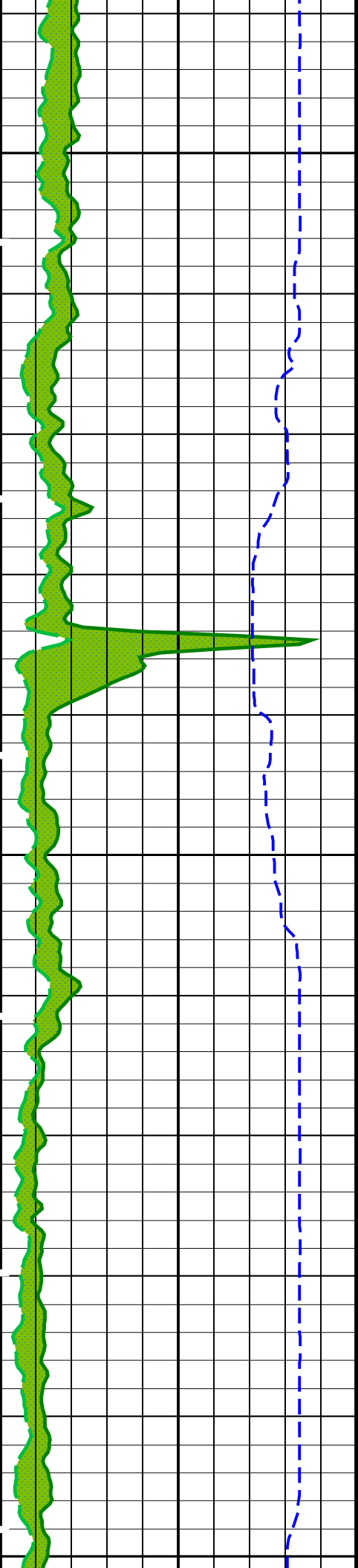
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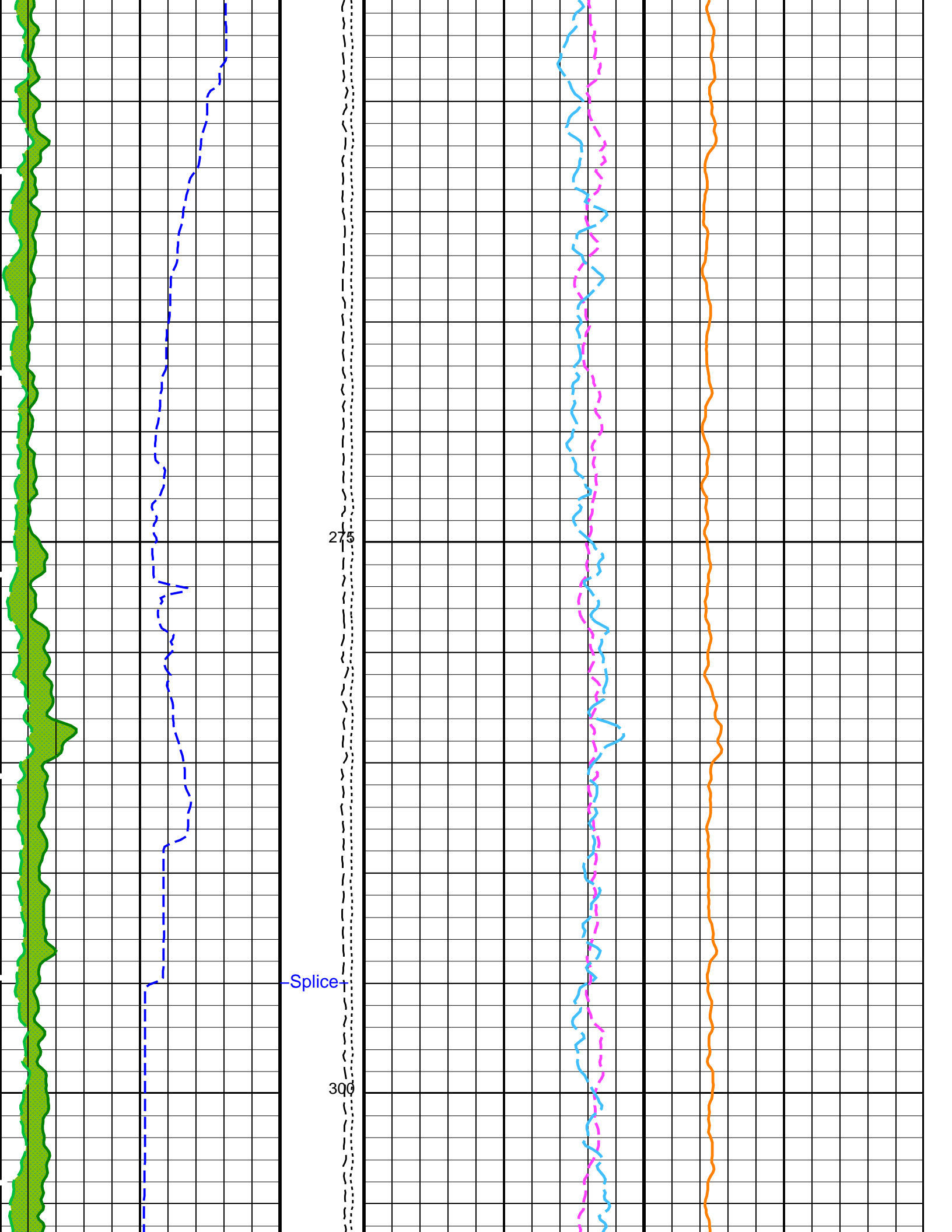
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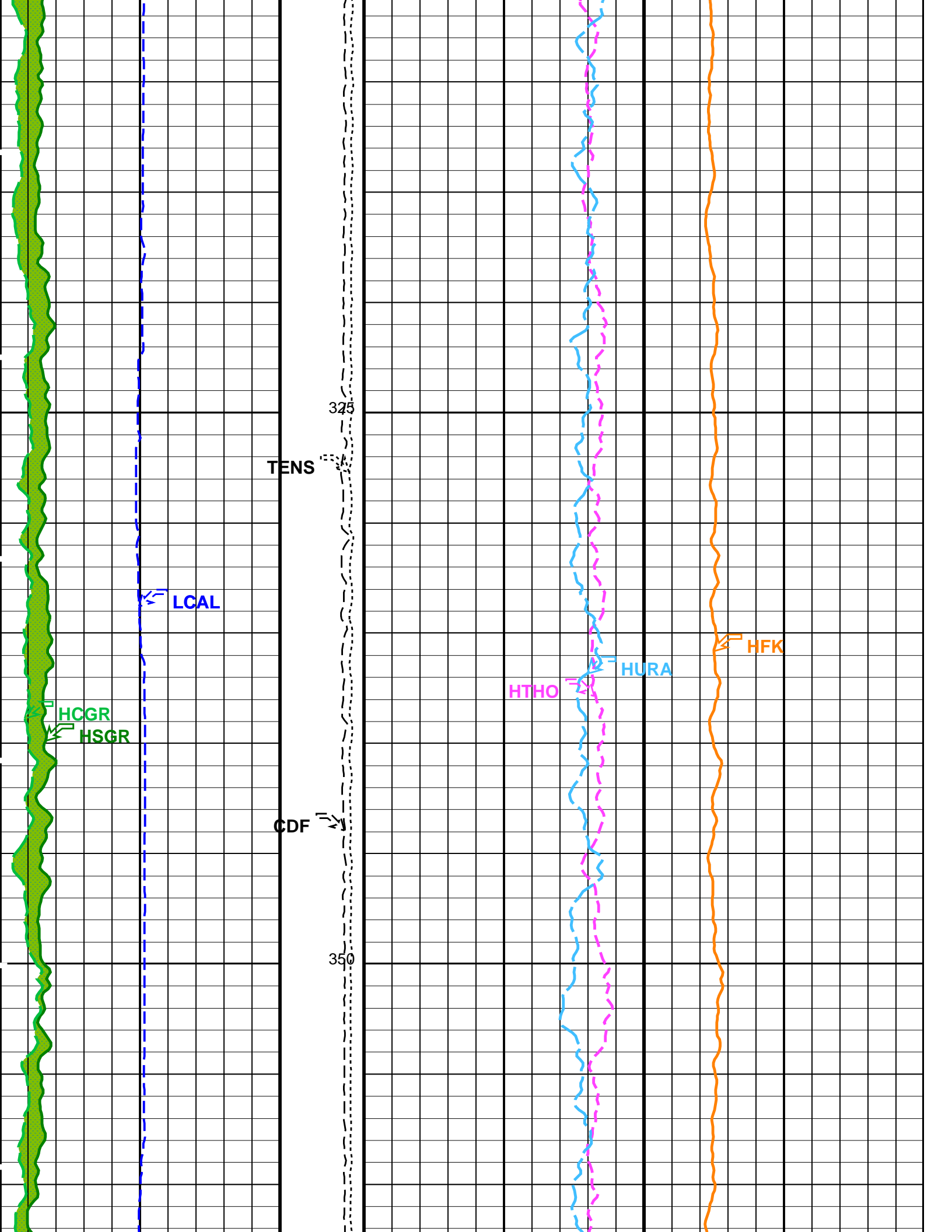
HBHK

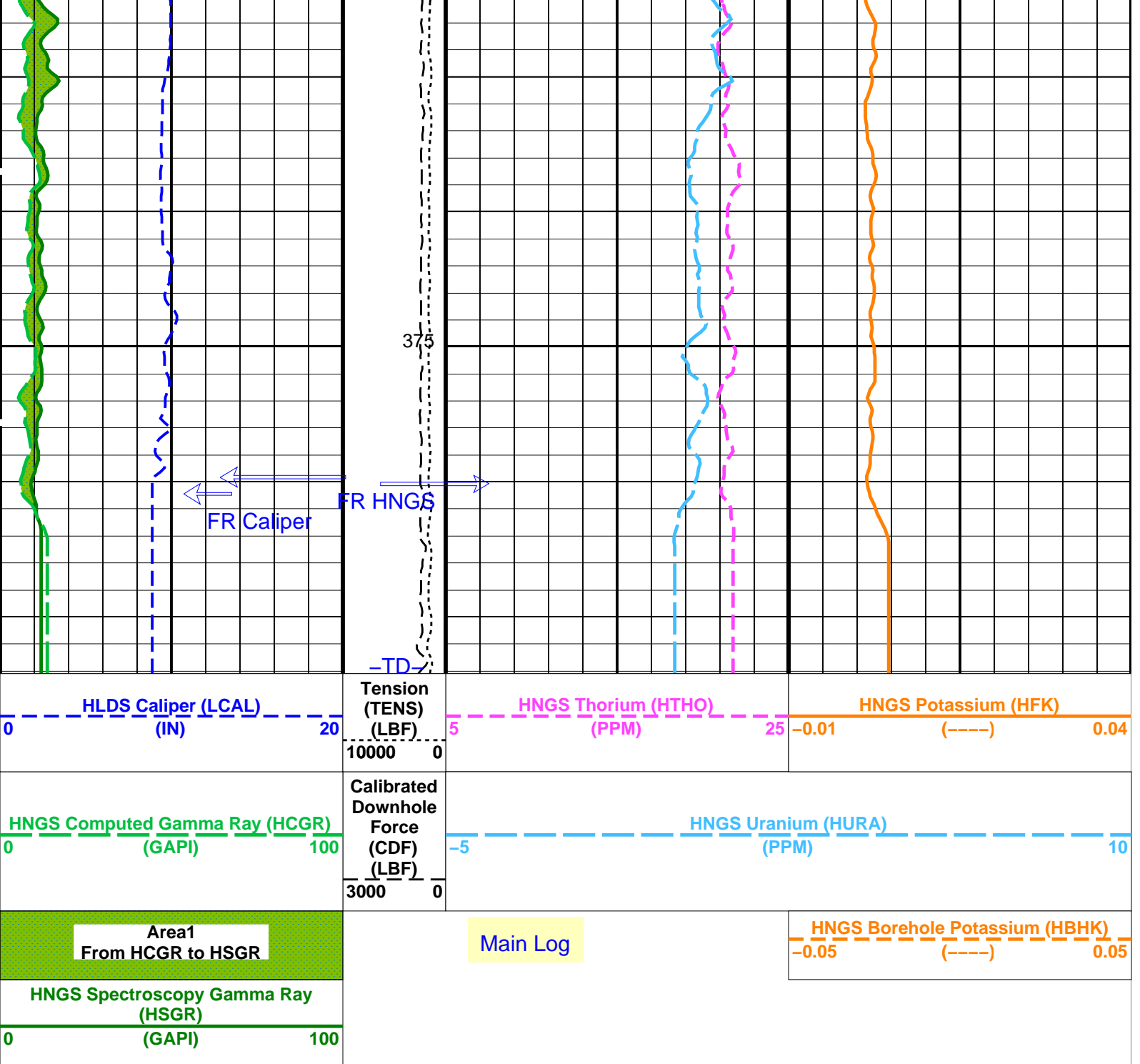












Area1
From HCGR to HSGR

Main Log

HNGS Borehole Potassium (HBHK)
-0.05 (-----) 0.05

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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	-0.0010446
HALF	HNGS Alpha Filter Length	60 IN
HCRR	HNGS Apply Borehole Potassium Correction	NONE

HMWM	Mud Weighting Material	BARI	
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	1.00283	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.968714	
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	1.32	G/C3
DO	Depth Offset for Playback	-205.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 17-Aug-2015 00:42

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_022PUP	FN:35	PRODUCER	12-Aug-2015 04:16	592.1 M	180.4 M
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Output DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_029PUP	FN:41	PRODUCER	17-Aug-2015 00:42		
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Company: Integrated Ocean Discovery Program Well: Expedition 356, Site U1459 C

Input DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_022PUP	FN:35	PRODUCER	12-Aug-2015 04:16	592.1 M	180.4 M
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Output DLIS Files

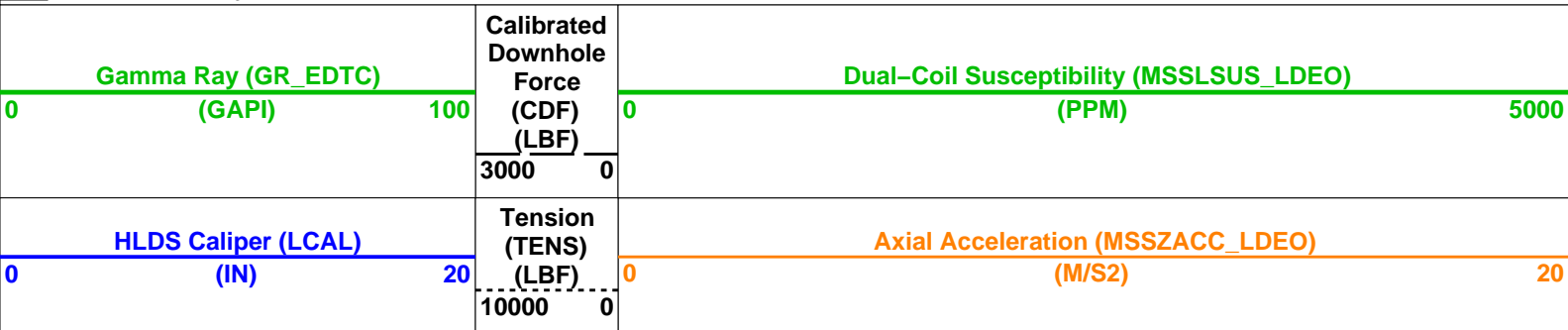
DEFAULT	MSS_LDEO_NGS_LDL_029PUP	FN:41	PRODUCER	17-Aug-2015 00:42	387.1 M	-24.5 M
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OP System Version: 19C0-187

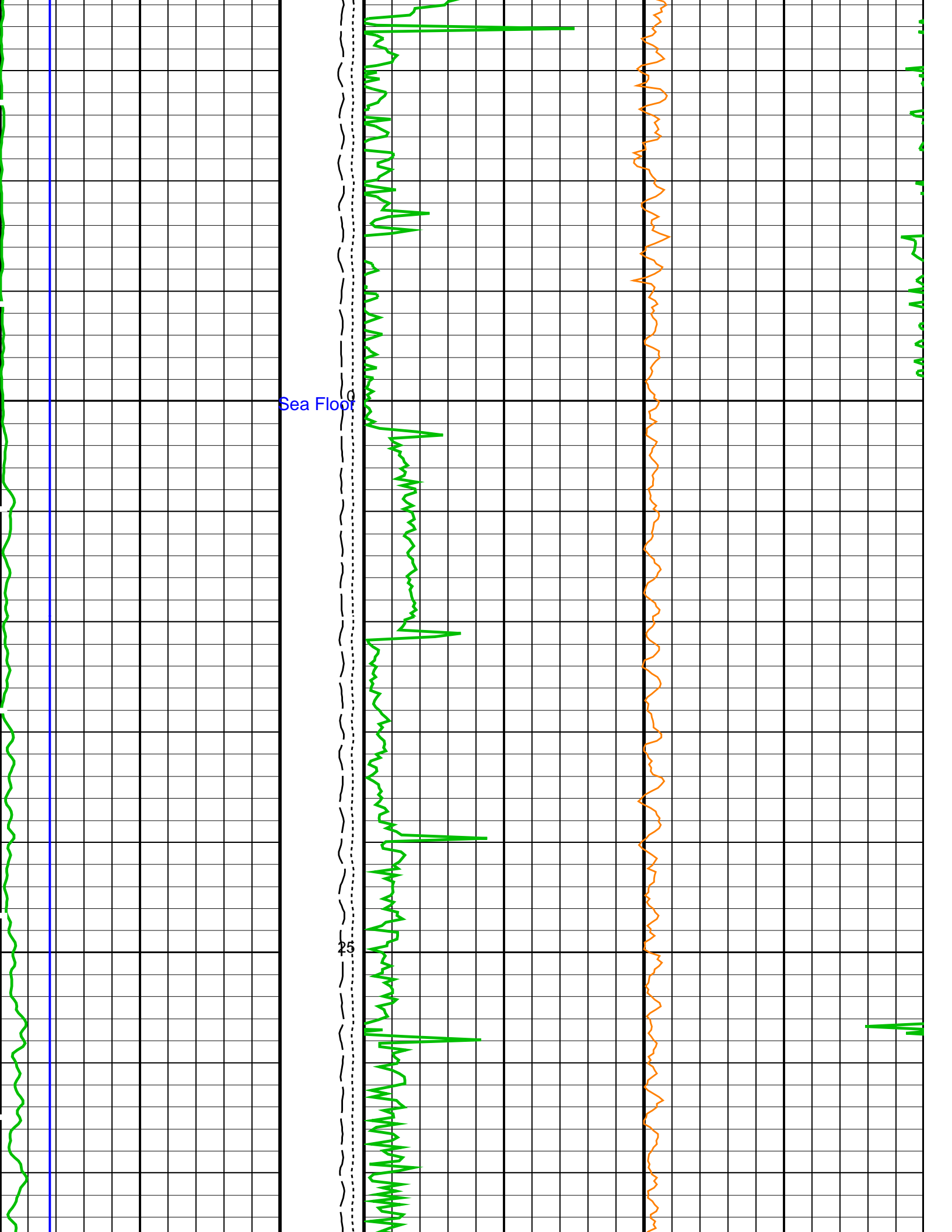
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HNGS-BA	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	EDTC-B	SKK-5169-EDTCB

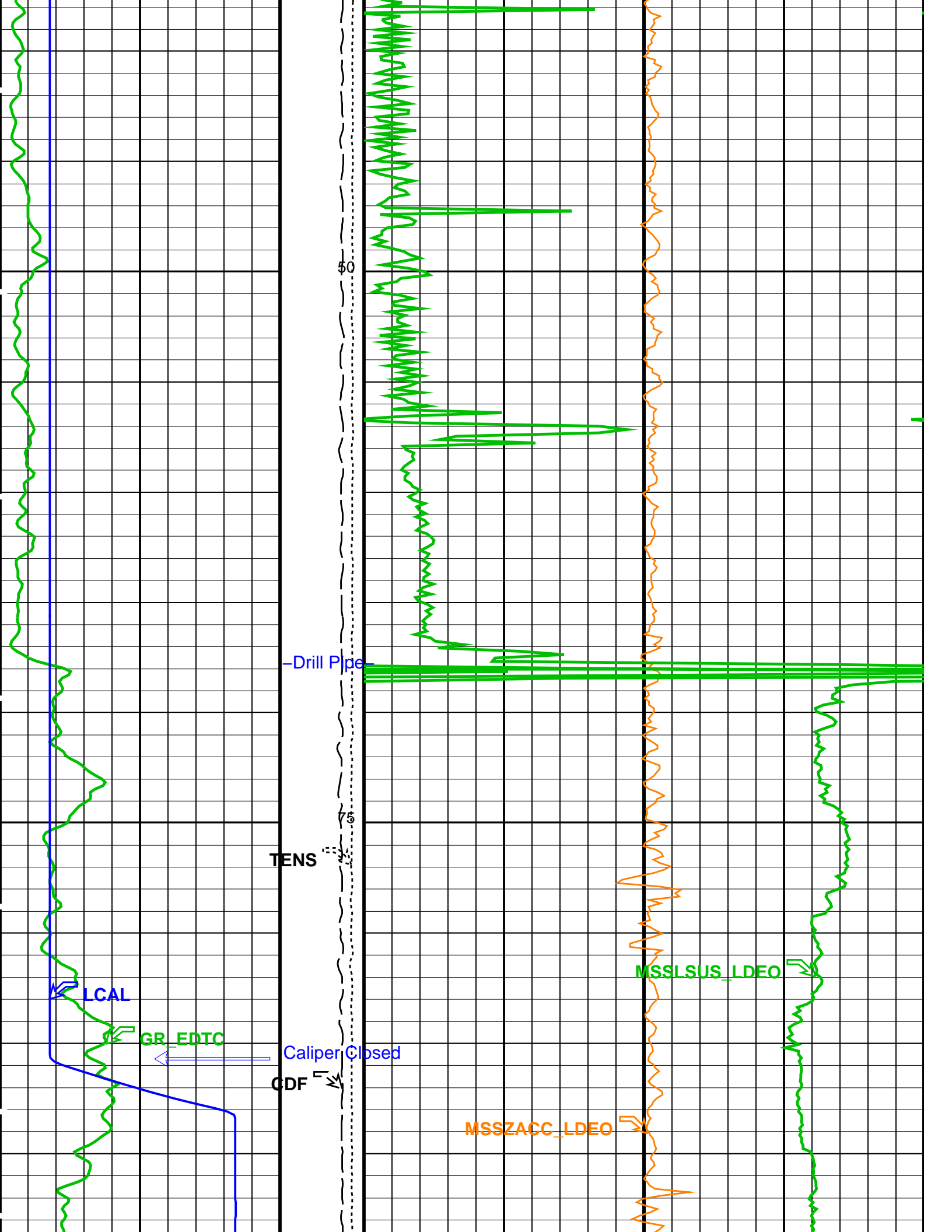
PIP SUMMARY

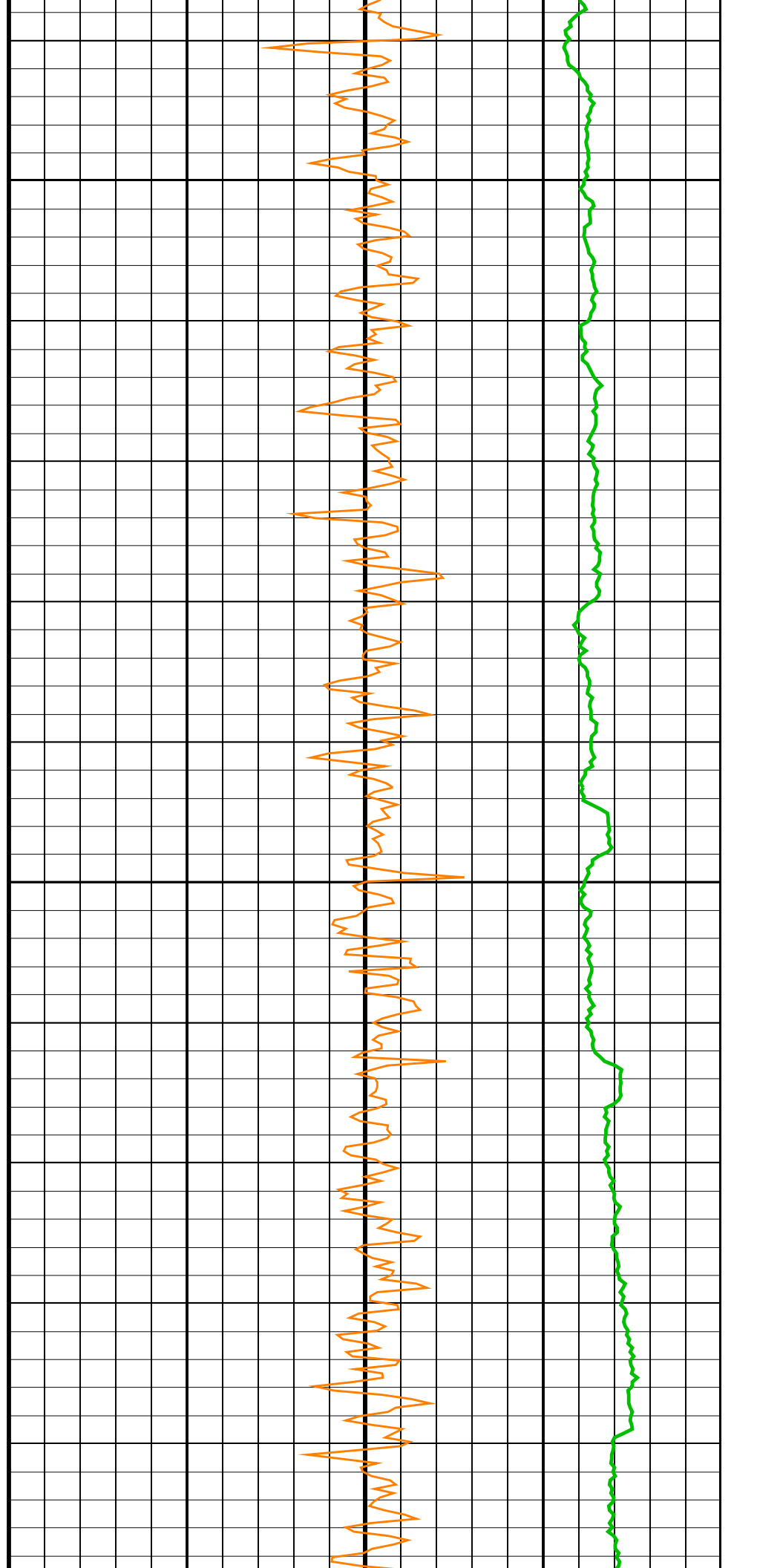
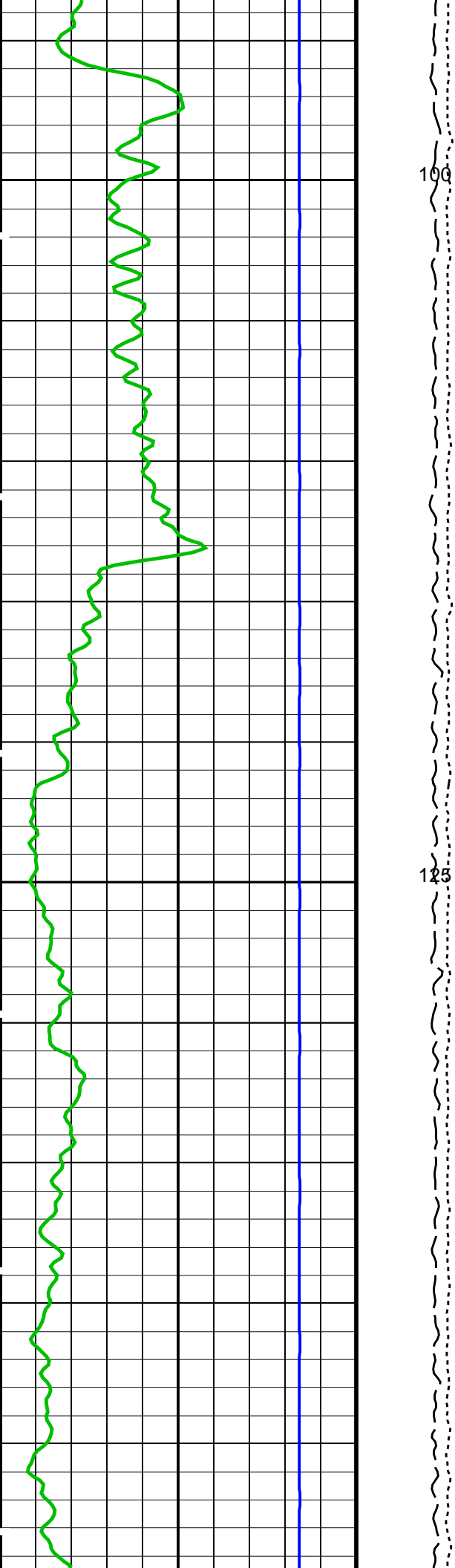
Time Mark Every 60 S

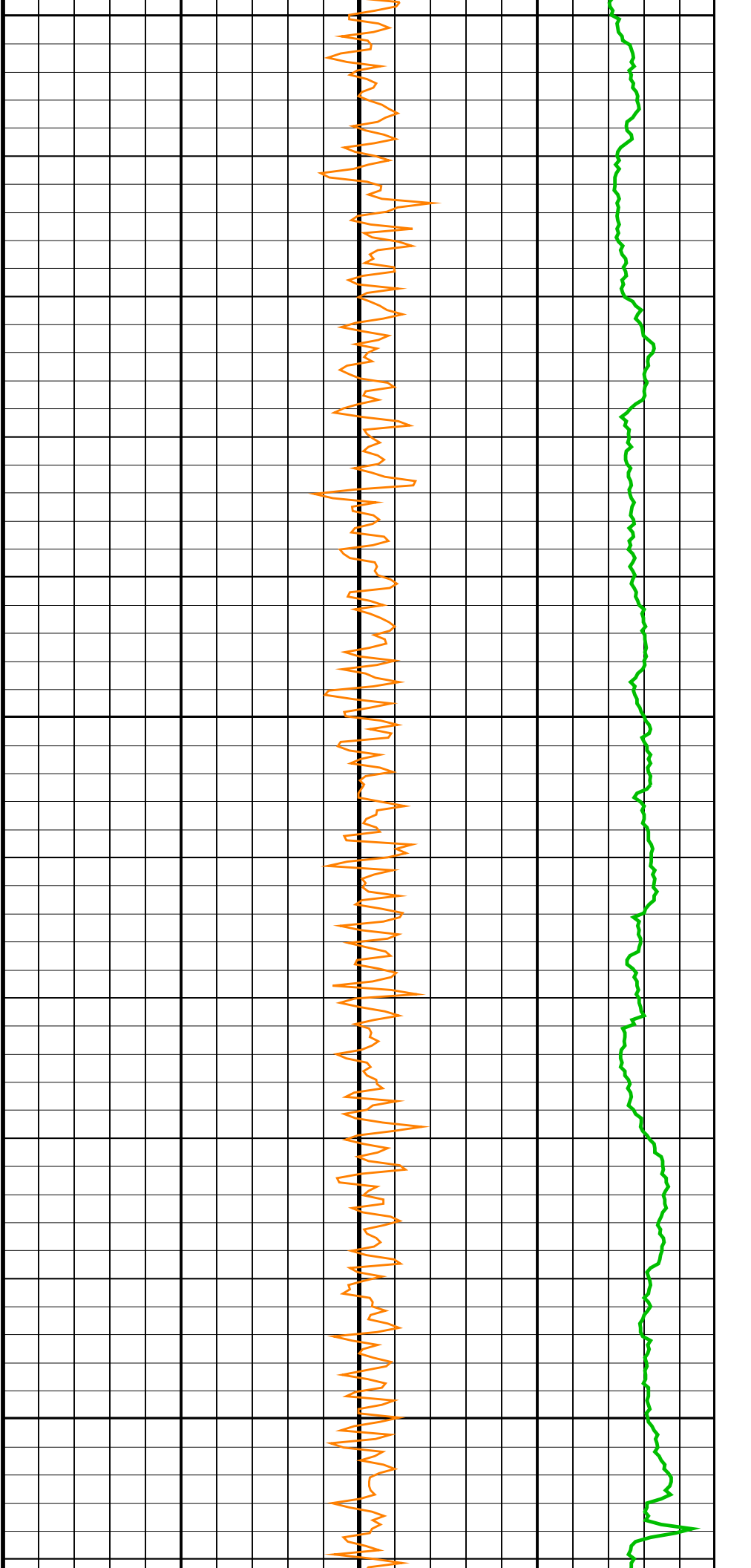
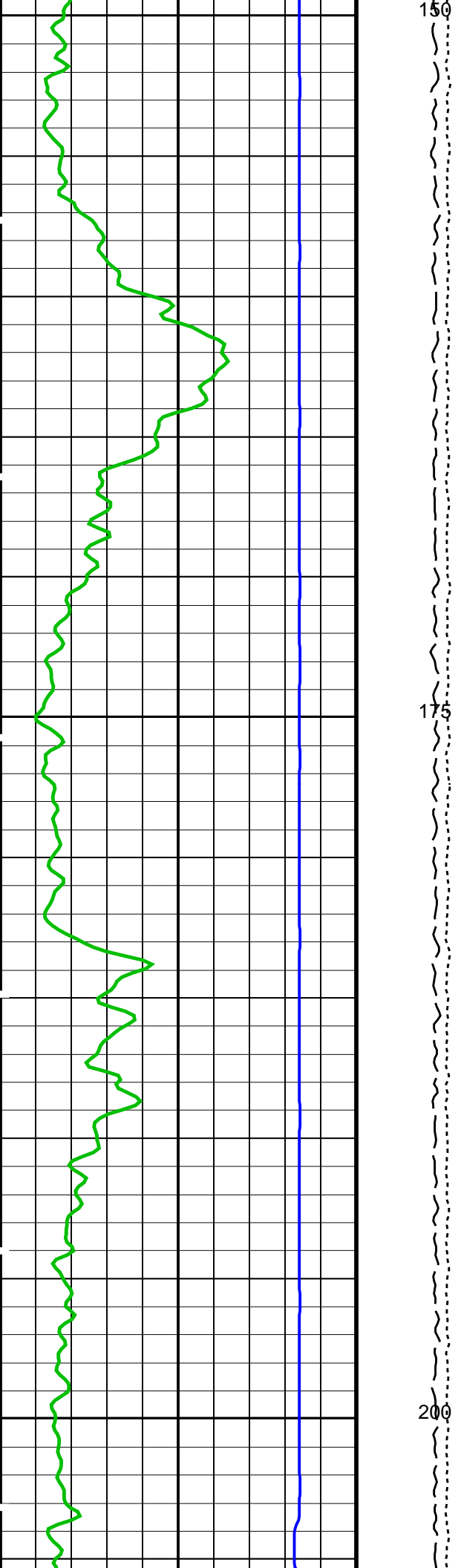


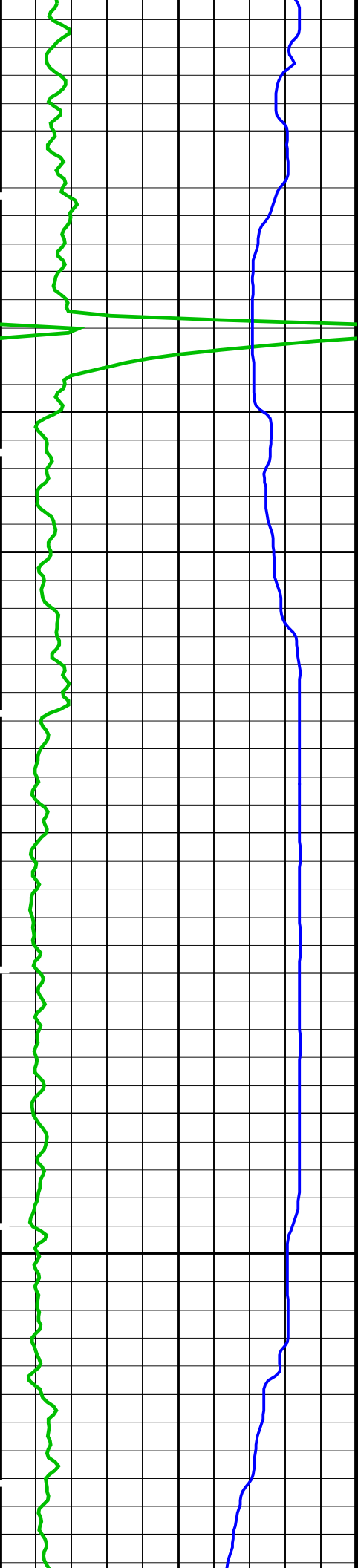
Main Uplog





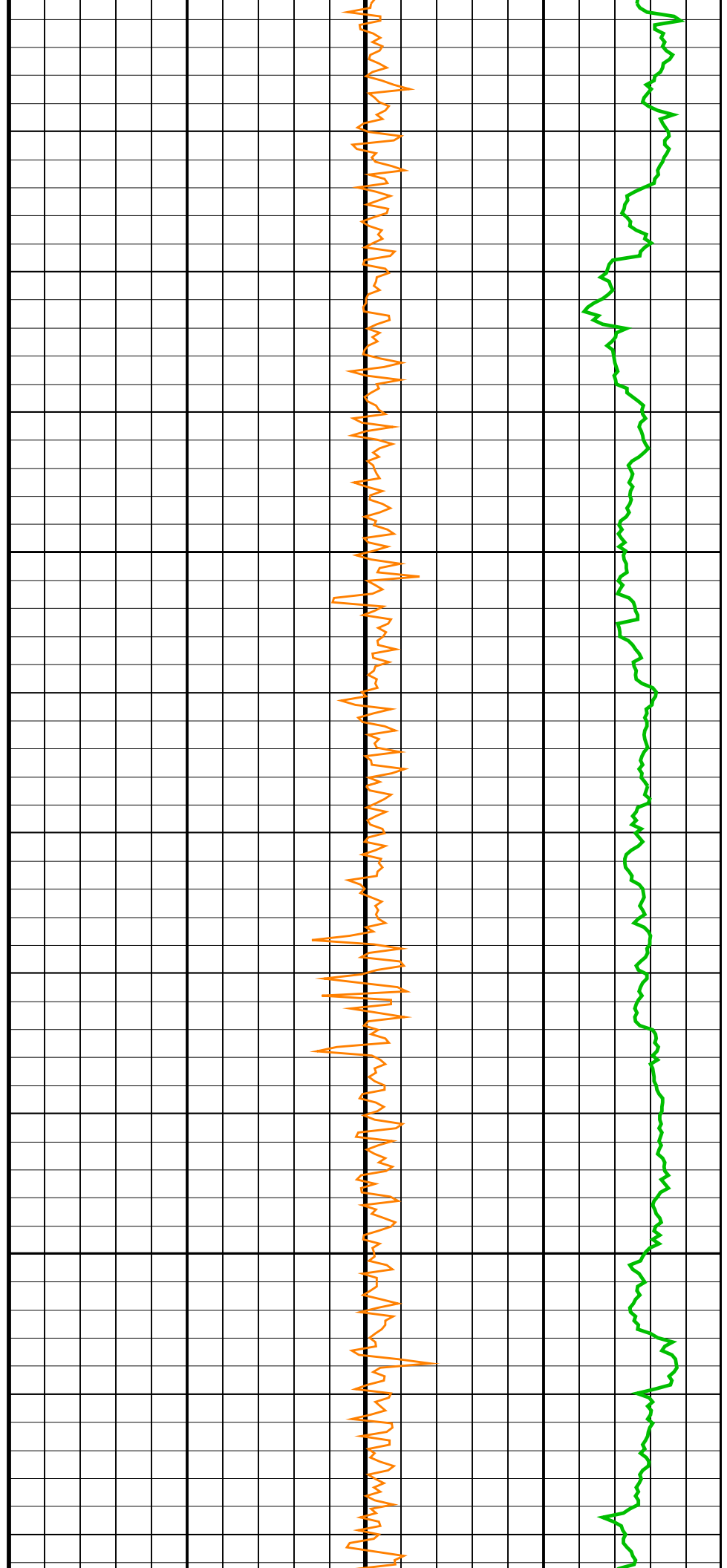


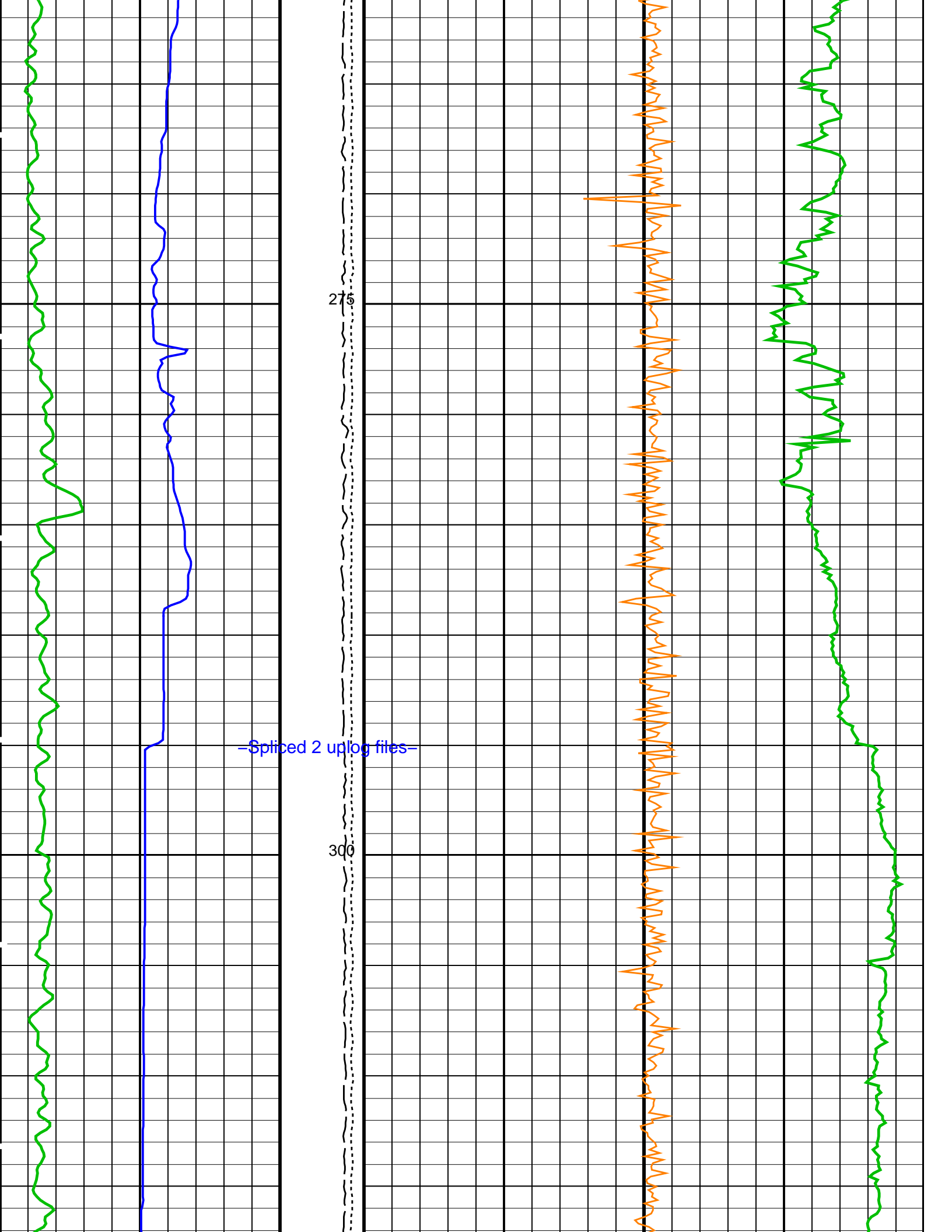


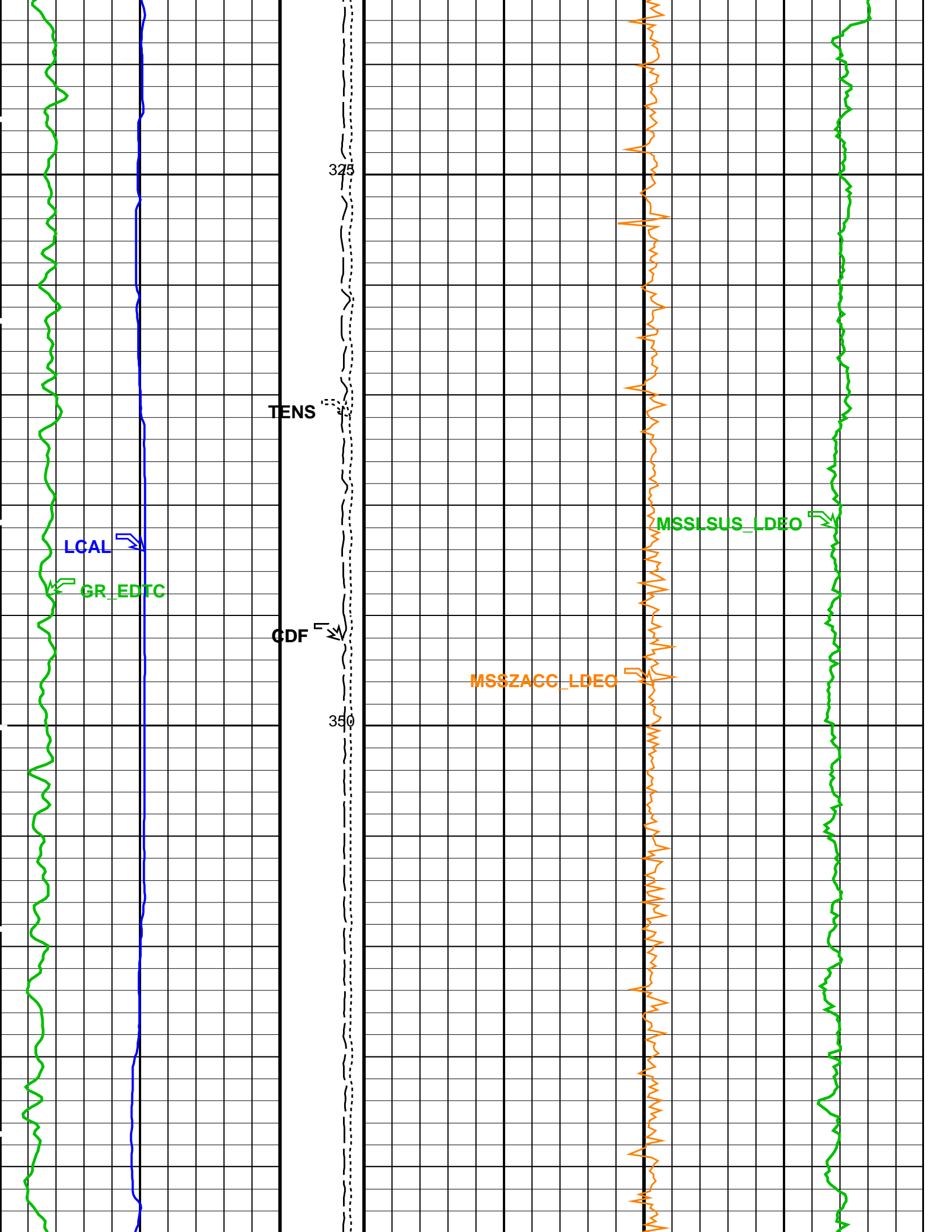


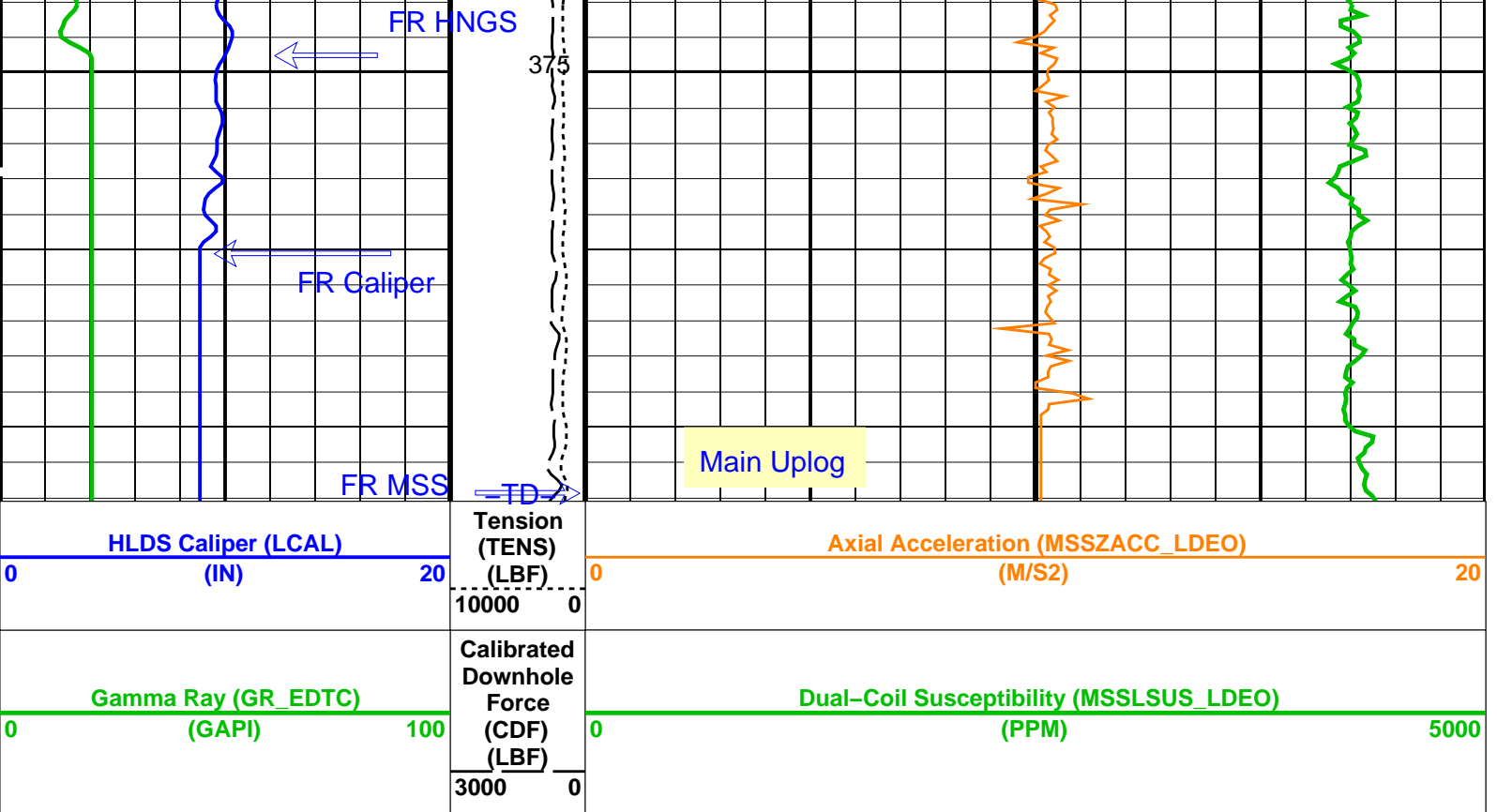
225

250









PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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)	25 DEGC
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 IN
CSW1	Inner Casing Weight	0 LB/F
CSW2	Outer Casing Weight	0 LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE
GCSE	Generalized Caliper Selection	LCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN 9
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.0010446
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	BARI
HNPE	HNGS Processing Enable	YES
ISSBAR	Barite Mud Switch	BARITE
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
SHT	Surface Hole Temperature	20 DEGC
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.00283
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.968714
HLDS: Hostile Litho-Density Sonde		
CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT
CLLS	HLDS Mode Loop Long Spacing	AUTO
CLSS	HLDS Mode Loop Short Spacing	AUTO
DHC	Density Hole Correction	BS
DPPM	Density Porosity Processing Mode	HIRS
FD	Fluid Density	1 G/C3
LATC	HLDS Activation Correction	ON

LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
MDEN	Matrix Density	2.6	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000	
PSDS	HLDS SS Pulse Shape Compensation DAC	30000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	

EDTC-B: Enhanced DTS Cartridge

BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	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	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	BARITE	
ISSBAR_EDTC	Nuclear Mud Type	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	YES	
PTCO	Pressure/Temperature Correction Option	NO	
SDAT	Standoff Data Source	SOCN	
SHT	Surface Hole Temperature	20	DEGC
SOCN	Standoff Distance	0.5	IN
SOCO	Standoff Correction Option	NO	
TPOS_EDTC	EDTC Tool Centered/Eccentered	Eccentered	
U-ETELM_EDTS	Telemetry Mode for eWAFE	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	Standard_EDTS	

System and Miscellaneous

ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	38000.00	PPM
CSIZ	Current Casing Size	5.500	IN
CWEI	Casing Weight	168.00	LB/F
DFD	Drilling Fluid Density	1.32	G/C3
DO	Depth Offset for Playback	-205.0	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	23.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	400	M
TDD	Total Depth - Driller	400.00	M
TDL	Total Depth - Logger	387.00	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 17-Aug-2015 00:42

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_022PUP	FN:35	PRODUCER	12-Aug-2015 04:16	592.1 M	180.4 M
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Output DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_029PUP	FN:41	PRODUCER	17-Aug-2015 00:42
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Input DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_009LUP	FN:13	PRODUCER	11-Aug-2015 20:09	592.1 M	480.8 M
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Output DLIS Files

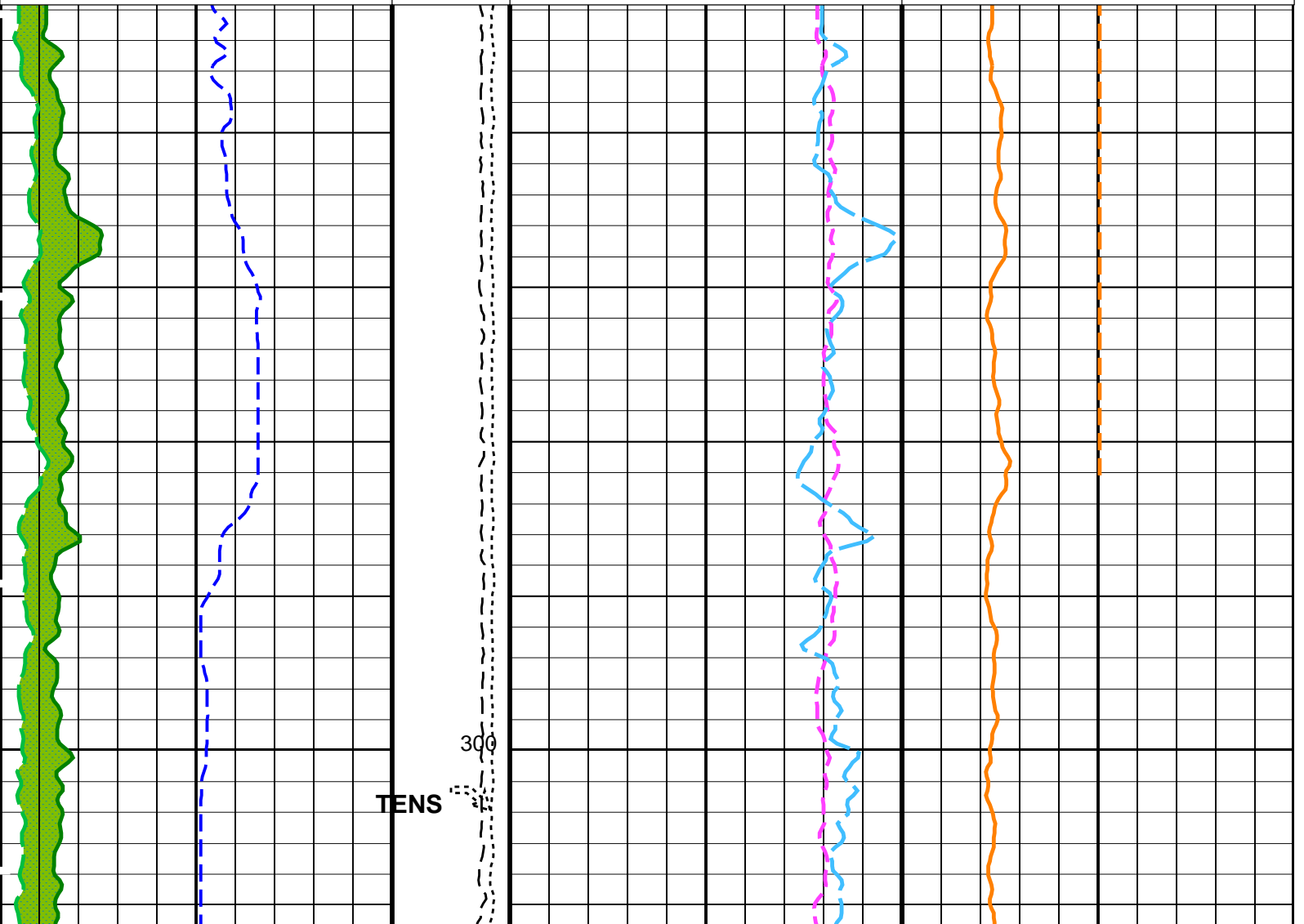
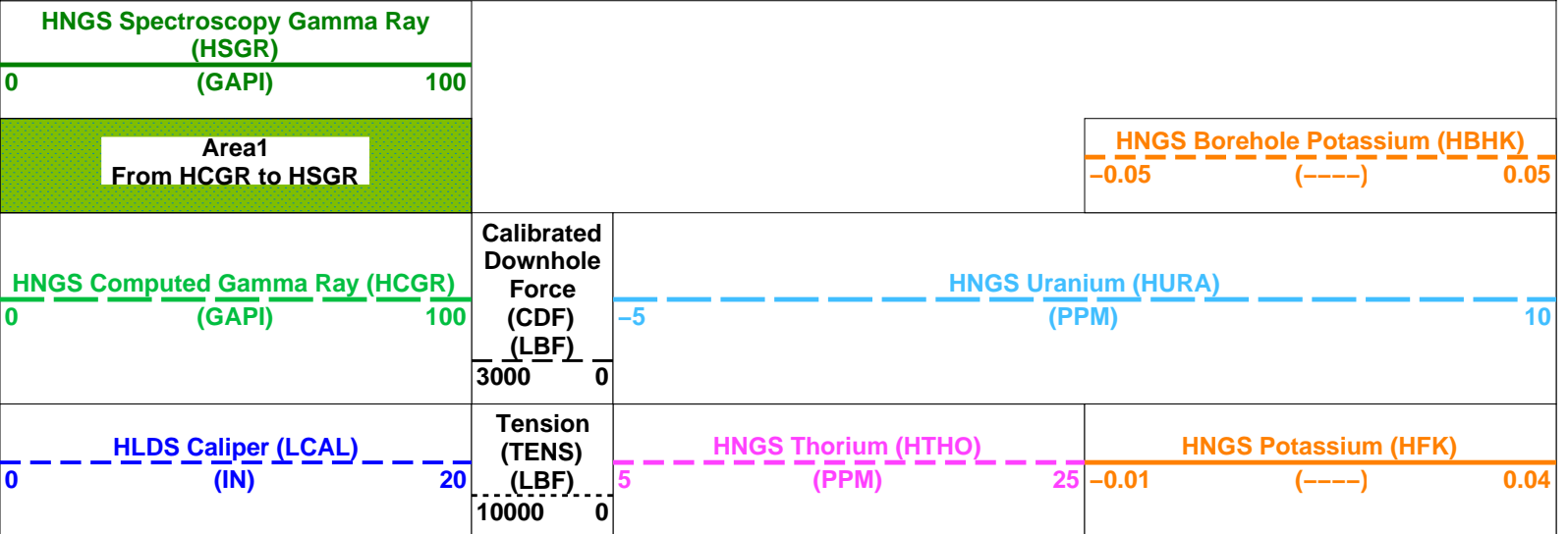
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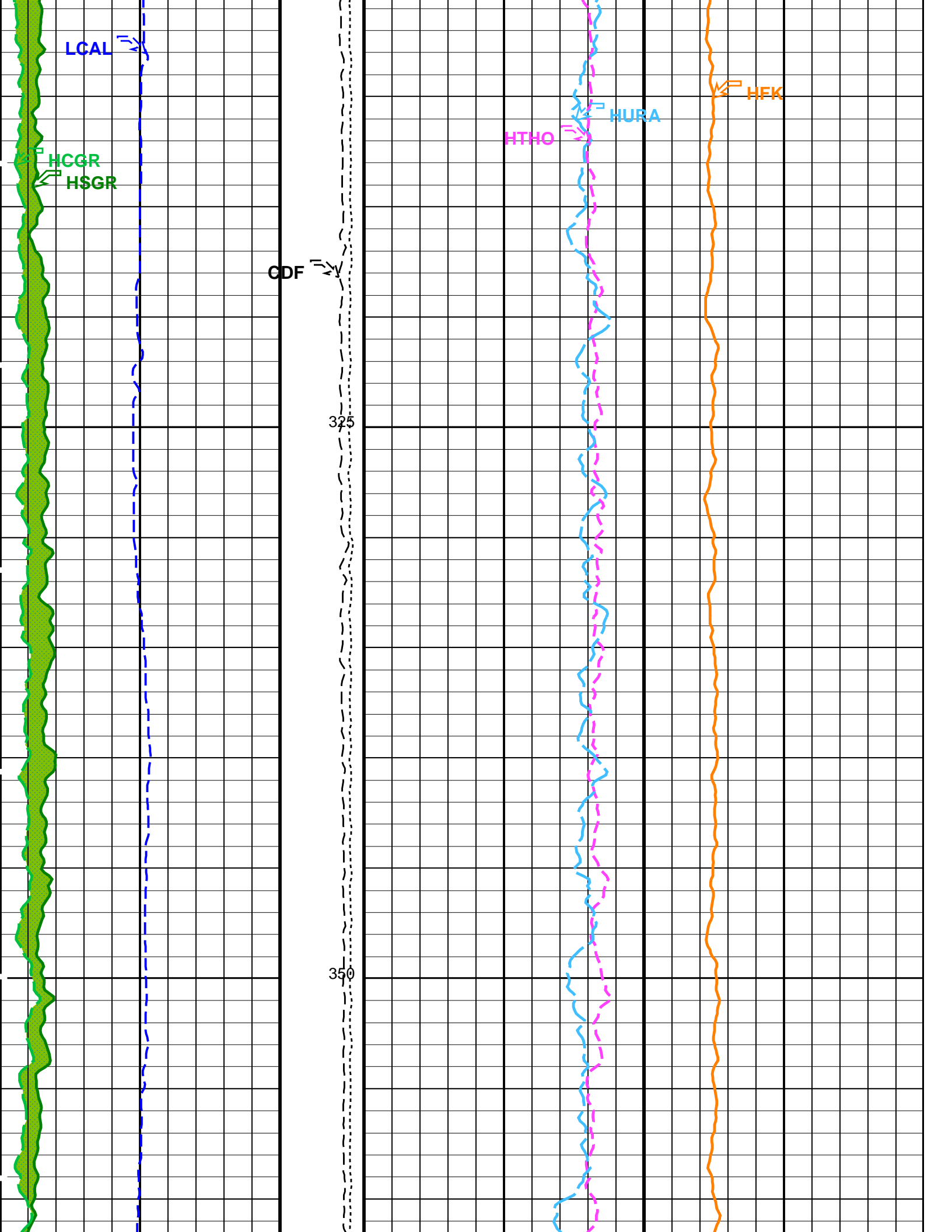
OP System Version: 19C0-187

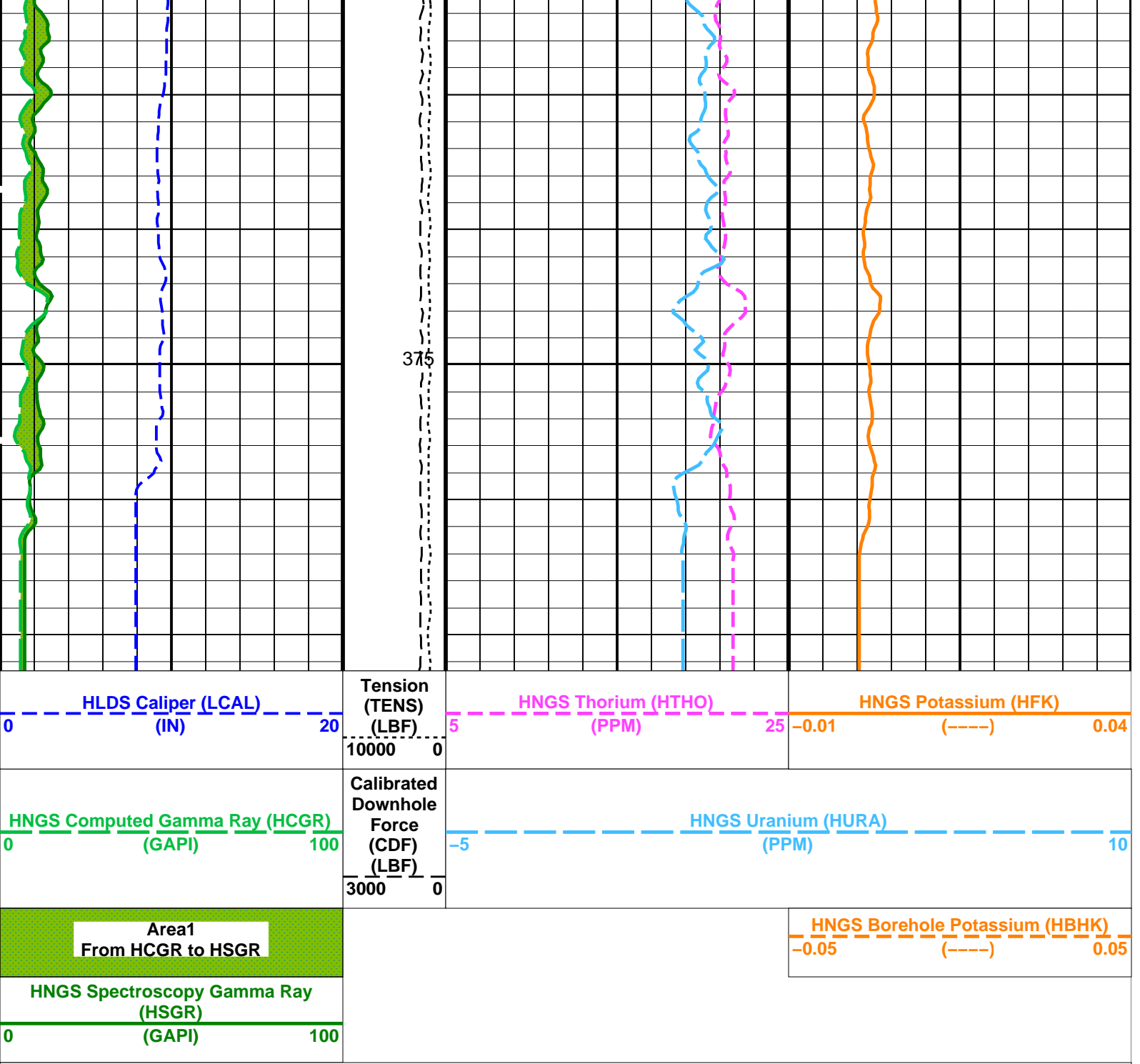
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HNGS-BA	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	EDTC-B	SKK-5169-EDTCB

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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	-0.0010446
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE

HMWM	Mud Weighting Material	BARI	
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	1.00283	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.968714	
	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	1.32	G/C3
DO	Depth Offset for Playback	-205.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 17-Aug-2015 00:11

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_009LUP	FN:13	PRODUCER	11-Aug-2015 20:09	592.1 M	480.8 M
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Output DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_028PUP	FN:40	PRODUCER	17-Aug-2015 00:11		
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Company: Integrated Ocean Discovery Program Well: Expedition 356, Site U1459 C

Input DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_009LUP	FN:13	PRODUCER	11-Aug-2015 20:09	592.1 M	480.8 M
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Output DLIS Files

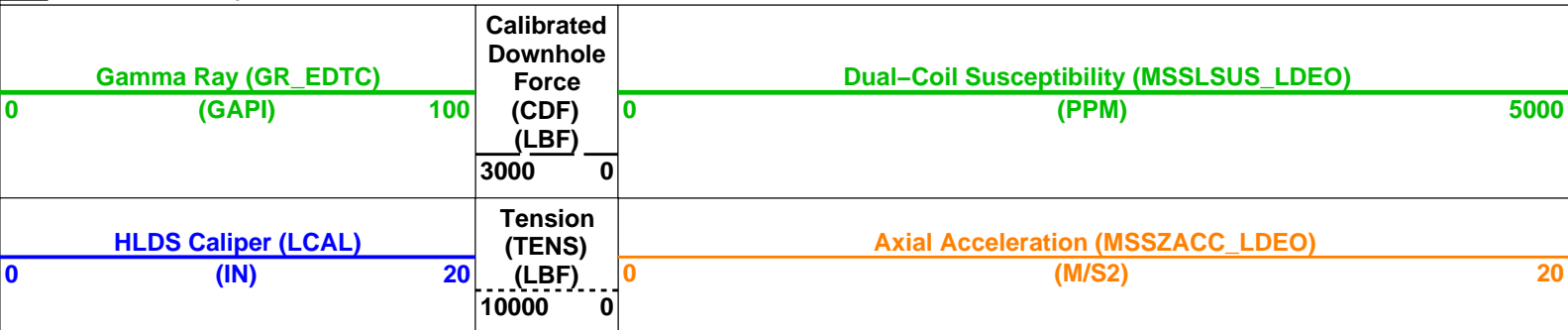
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OP System Version: 19C0-187

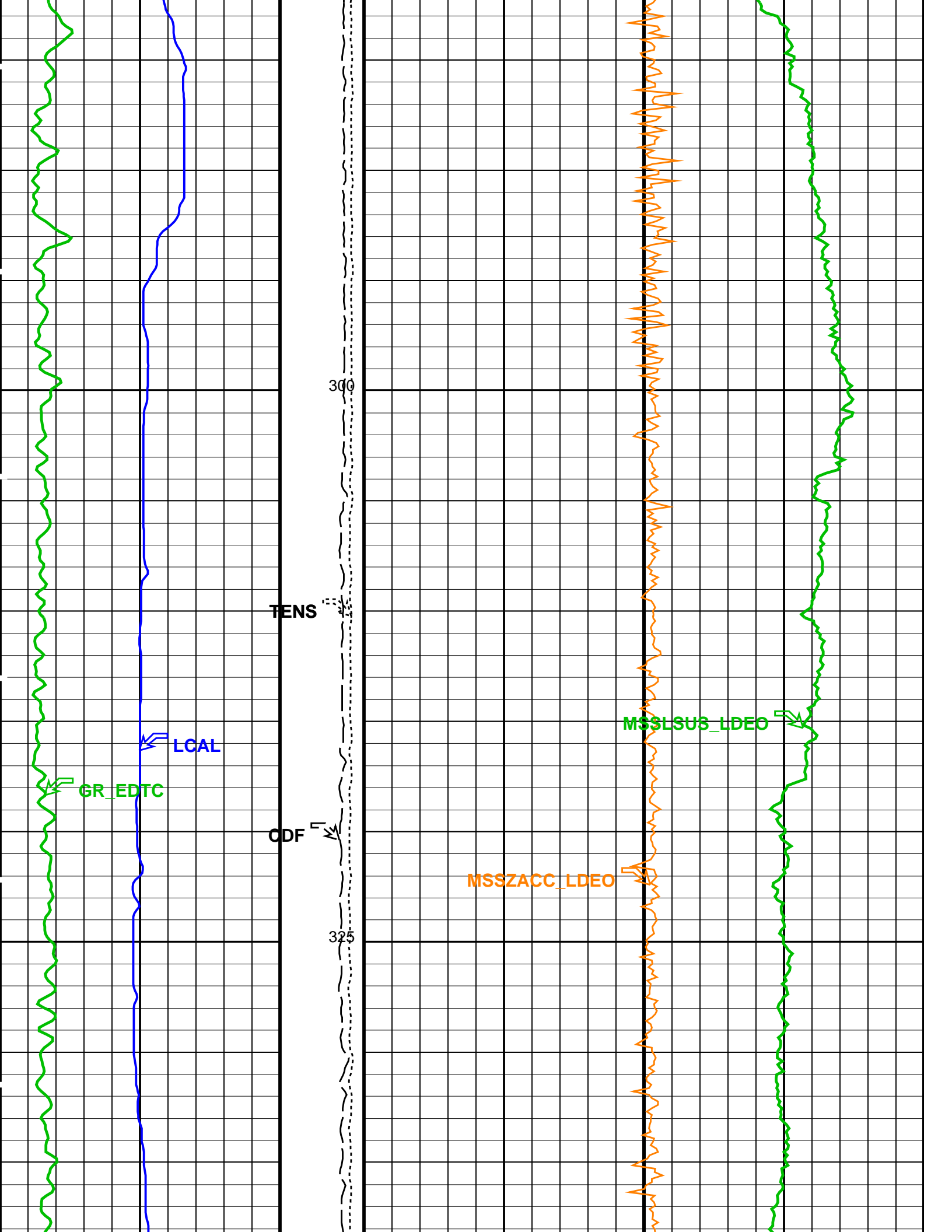
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HNGS-BA	19C0-187	HLDS	19C0-187
LDSC-B	19C0-187	EDTC-B	SKK-5169-EDTCB

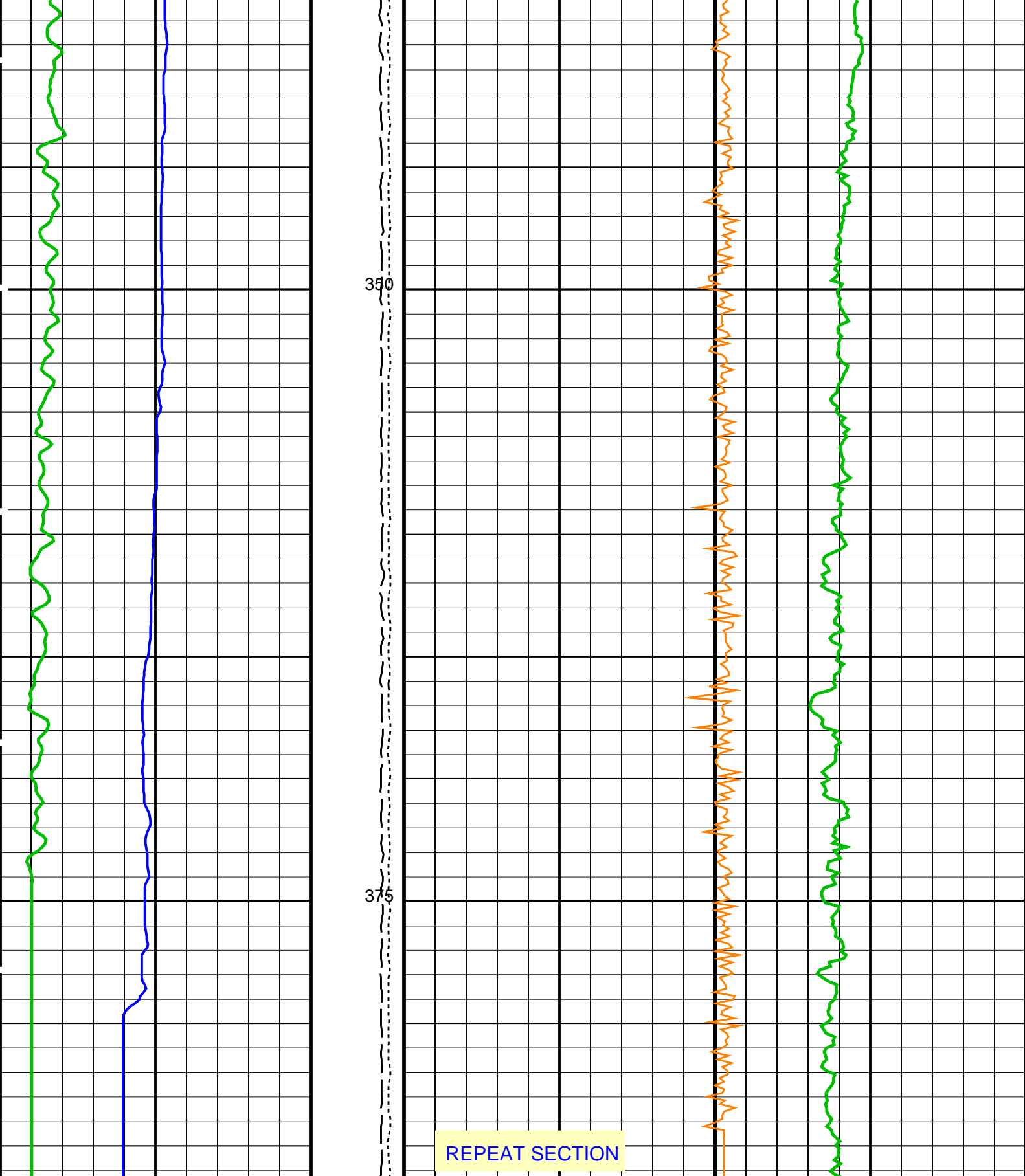
PIP SUMMARY

Time Mark Every 60 S



REPEAT SECTION





<p>HLDS Caliper (LCAL) (IN) 0 20</p>	<p>Tension (TENS) (LBF) 0 10000</p>	<p>Axial Acceleration (MSSZACC_LDEO) (M/S²) 0 20</p>
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<p>Gamma Ray (GR_EDTC) (GAPI) 0 100</p>	<p>Calibrated Downhole Force (CDF) (LBF)</p>	<p>Dual-Coil Susceptibility (MSSLSUS_LDEO) (PPM) 0 5000</p>
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PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
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)	25	DEGC
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0010446	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
ISSBAR	Barite Mud Switch	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
SHT	Surface Hole Temperature	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.00283	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.968714	
HLDS: Hostile Litho-Density Sonde			
CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	ON	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	
MDEN	Matrix Density	2.6	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000	
PSDS	HLDS SS Pulse Shape Compensation DAC	30000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
EDTC-B: Enhanced DTS Cartridge			
BHFL	Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	25	DEGC
BSCO	Borehole Salinity Correction Option	NO	
CCCO	Casing & Cement Thickness Correction Option	NO	
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
FSCO	Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	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	Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	BARITE	
ISSBAR_EDTC	Nuclear Mud Type	BARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO	Mud Cake Correction Option	NO	
MCOR	Mud Correction	BARI	
MWCO	Mud Weight Correction Option	YES	
PTCO	Pressure/Temperature Correction Option	NO	

SDAT	Standoff Data Source	SOCCN	20	DEGC
SHT	Surface Hole Temperature	SOCCN	0.5	IN
SOCN	Standoff Distance	SOCCO	NO	
SOCO	Standoff Correction Option	TPOS_EDTC	Eccentered	
TPOS_EDTC	EDTC Tool Centered/Eccentered	U-ETELM_EDTS	Standard_EDTS	
U-ETELM_EDTS	Telemetry Mode for eWAFE	U-TELM_EDTS	Standard_EDTS	
U-TELM_EDTS	Telemetry Mode for WAFE	System and Miscellaneous		
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth		
BS	Bit Size	9.875	IN	
BSAL	Borehole Salinity	38000.00	PPM	
CSIZ	Current Casing Size	5.500	IN	
CWEI	Casing Weight	168.00	LB/F	
DFD	Drilling Fluid Density	1.32	G/C3	
DO	Depth Offset for Playback	-205.0	M	
FLEV	Fluid Level	-50000.00	M	
MST	Mud Sample Temperature	23.00	DEGC	
PBVSADP	Use alternate depth channel for playback	NO		
PP	Playback Processing	NORMAL		
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM	
RW	Resistivity of Connate Water	1.0000	OHMM	
TD	Total Depth	400	M	
TDD	Total Depth - Driller	400.00	M	
TDL	Total Depth - Logger	387.00	M	
TWS	Temperature of Connate Water Sample	37.78	DEGC	

Format: MSS_Logging Vertical Scale: 1:200 Graphics File Created: 17-Aug-2015 00:11

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_009LUP	FN:13	PRODUCER	11-Aug-2015 20:09	592.1 M	480.8 M
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Output DLIS Files

DEFAULT	MSS_LDEO_NGS_LDL_028PUP	FN:40	PRODUCER	17-Aug-2015 00:11
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Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 31-Jul-2015 10:01 Before: 5-Aug-2015 7:59 After: 5-Aug-2015 9:23							
Na 511 Peak Loc	40.00	37.71	37.63	37.62	-0.01348	1.000	
Na 511 Peak Res	15.50	16.11	15.42	15.72	0.3043	2.000	%
High Voltage	1150	1211	1201	1204	2.856	N/A	V
Na 1785 Peak Loc	142.6	136.7	136.8	136.3	-0.4773	7.000	
Na 1785 Peak Res	8.500	10.13	8.646	8.654	0.007848	2.000	%
Temperature	15.50	22.16	22.65	22.78	0.1236	N/A	DEGC
Na Count Rate	45.00	43.96	43.37	42.72	-0.6500	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 31-Jul-2015 10:01 Before: 5-Aug-2015 7:59 After: 5-Aug-2015 9:23							
Na 511 Peak Loc	40.00	39.69	39.55	39.58	0.02773	1.000	
Na 511 Peak Res	15.50	15.27	16.42	15.01	-1.409	2.000	%
High Voltage	1150	1084	1083	1085	2.161	N/A	V
Na 1785 Peak Loc	142.6	143.4	143.2	142.7	-0.5449	7.000	
Na 1785 Peak Res	8.500	8.457	8.664	8.451	-0.2128	2.000	%
Temperature	15.50	21.65	22.00	22.57	0.5625	N/A	DEGC
Na Count Rate	45.00	44.18	43.52	42.99	-0.5368	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2							
Master: 31-Jul-2015 10:01 Before: 5-Aug-2015 7:59 After: 5-Aug-2015 9:23							
Coincidence Count Rate Ratio	1.000	0.9887	0.9903	0.9926	0.002269	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration							
Master: 31-Jul-2015 9:56							
Na 511 Peak Set Point	40.00	39.00	--	--	--	--	
Th Peak Loc	209.6	206.7	--	--	--	--	

Th Peak Res	7.000	8.351	--	--	--	--	%
Background Count Rate	142.5	37.67	--	--	--	--	CPS
Gain Ratio	1.000	1.042	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 31-Jul-2015 9:56

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	211.5	--	--	--	--	
Th Peak Res	7.000	6.877	--	--	--	--	%
Background Count Rate	142.5	39.84	--	--	--	--	CPS
Gain Ratio	1.000	1.014	--	--	--	--	

Hostile Litho–Density Sonde Wellsite Calibration – Background Measurement

Master: 3-Aug-2015 21:03 Before: 5-Aug-2015 7:58 After: 5-Aug-2015 9:22

SS Cs Resolution Bkg	9.000	8.017	8.033	7.919	-0.1147	1.800	%
LS Cs Resolution Bkg	9.000	8.170	8.088	8.157	0.06852	1.800	%
LSW1 Background	100.0	68.33	67.22	67.33	0.1102	3.000	CPS
LSW2 Background	100.0	63.65	62.90	61.96	-0.9420	3.000	CPS
LSW3 Background	200.0	137.7	136.9	137.2	0.3391	6.000	CPS
LSW4 Background	250.0	169.1	168.5	168.5	-0.02835	7.500	CPS
LSW5 Background	600.0	386.6	384.0	383.4	-0.5656	18.00	CPS
SSW1 Background	100.0	76.45	75.96	75.94	-0.02719	3.000	CPS
SSW2 Background	200.0	136.4	135.3	137.6	2.250	6.000	CPS
SSW3 Background	500.0	362.4	366.1	365.1	-0.9888	15.00	CPS
SSW4 Background	270.0	190.8	190.0	189.5	-0.5771	8.100	CPS
SSW5 Background	200.0	138.4	137.9	138.7	0.8392	6.000	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Aluminum Measurement

Master: 3-Aug-2015 21:34

LSW1 Aluminum	600.0	504.7	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	726.8	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	878.5	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	443.6	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	408.1	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2360	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6396	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	8862	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3644	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	446.4	N/A	N/A	N/A	N/A	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Lithology Measurement

Master: 3-Aug-2015 21:29

LSW1 Iron	400.0	344.5	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	588.5	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	781.6	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	405.5	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	370.3	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1732	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5346	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8101	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3320	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	398.5	N/A	N/A	N/A	N/A	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Caliper Calibration

Before: 3-Aug-2015 21:46

HLDS Caliper Small Ring	12.00	N/A	16.20	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	20.40	N/A	N/A	N/A	IN

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 11-Aug-2015 17:26

EDTC Z–Axis Acceleration	9.810	N/A	9.852	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 5-Aug-2015 7:56 After: 5-Aug-2015 9:33

Gamma Ray (Jig – Bkg)	152.3	N/A	152.3	152.9	0.5175	13.85	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	164.6	0.5571	15.00	GAPI

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:		
HNGC Cartridge	HNGC – B	439
Auxiliary Equipment:		
HNGC Housing	HNGH – A	380

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde

HNGS – BA

177

Auxiliary Equipment:

HNGS Sonde Housing

HNSH – BA

174

Gamma Source Radioactive

GSR – U

616008

Hostile Natural Gamma Ray Sonde Wellsite Calibration								
Detector 1 Check								
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		37.71	Master		16.11	Master		1211
Before		37.63	Before		15.42	Before		1201
After		37.62	After		15.72	After		1204
	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		136.7	Master		10.13	Master		22.16
Before		136.8	Before		8.646	Before		22.65
After		136.3	After		8.654	After		22.78
	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		43.96						
Before		43.37						
After		42.72						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 31-Jul-2015 10:01			Before: 5-Aug-2015 7:59			After: 5-Aug-2015 9:23		

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		39.69	Master		15.27	Master		1084
Before		39.55	Before		16.42	Before		1083
After		39.58	After		15.01	After		1085
	37.50 (Minimum) 40.00 (Nominal) 43.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		143.4	Master		8.457	Master		21.65
Before		143.2	Before		8.664	Before		22.00
After		142.7	After		8.451	After		22.57
	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		44.18						
Before		43.52						
After		42.99						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 31-Jul-2015 10:01			Before: 5-Aug-2015 7:59			After: 5-Aug-2015 9:23		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9887
Before		0.9903
After		0.9926

0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 31-Jul-2015 10:01		
Before: 5-Aug-2015 7:59		
After: 5-Aug-2015 9:23		

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 1 Calibration											
Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			39.00	Master			206.7	Master			8.351
	38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)		201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)		5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master			37.67	Master			1.042				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				

Master: 31-Jul-2015 9:56

Hostile Natural Gamma Ray Sonde Master Calibration											
Detector 2 Calibration											
Phase	Na 511 Peak Set Point		Value	Phase	Th Peak Loc		Value	Phase	Th Peak Res %		Value
Master			41.00	Master			211.5	Master			6.877
	38.00 (Minimum)	40.00 (Nominal)	43.00 (Maximum)		201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)		5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master			39.84	Master			1.014				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				

Master: 31-Jul-2015 9:56

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:

Hostile Litho Density Sonde	HLDS - D	45
Hostile Litho Density High Voltage	HLDV - D	45
Gamma Source Radioactive	GSR - Z	8113

Auxiliary Equipment:

Hostile Litho Density Pad	HLDP - C	45
Hostile Litho Density High Voltage Housi	HEH - H	47

Hostile Litho-Density Sonde Wellsite Calibration											
Background Measurement											
Phase	SS Cs Resolution Bkg %		Value	Phase	LS Cs Resolution Bkg %		Value	Phase	LSW1 Background CPS		Value
Master			8.017	Master			8.170	Master			68.33
Before			8.033	Before			8.088	Before			67.22
After			7.919	After			8.157	After			67.33
	7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)		7.000 (Minimum)	9.000 (Nominal)	11.00 (Maximum)		55.00 (Minimum)	100.0 (Nominal)	150.0 (Maximum)
Phase	LSW2 Background CPS		Value	Phase	LSW3 Background CPS		Value	Phase	LSW4 Background CPS		Value
Master			63.65	Master			137.7	Master			169.1
Before			62.90	Before			136.9	Before			168.5
After			61.96	After			137.2	After			168.5
	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			386.6	Master			76.45	Master			136.4
Before			384.0	Before			75.96	Before			135.3
After			383.4	After			75.94	After			137.6
	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		362.4	Master		190.8	Master		138.4
Before		366.1	Before		190.0	Before		137.9
After		365.1	After		189.5	After		138.7
280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)			150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)		
Master: 3-Aug-2015 21:03			Before: 5-Aug-2015 7:58			After: 5-Aug-2015 9:22		

Hostile Litho-Density Sonde Master Calibration								
Detector Background Measurement								
Phase	LSW1 Background CPS	Value	Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value
Master		68.33	Master		63.65	Master		137.7
55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)		
Phase	LSW4 Background CPS	Value	Phase	LSW5 Background CPS	Value	Phase	LS Cs Resolution Bkg %	Value
Master		169.1	Master		386.6	Master		8.170
140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)			330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)		
Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value	Phase	SSW3 Background CPS	Value
Master		76.45	Master		136.4	Master		362.4
55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)			280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)		
Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value	Phase	SS Cs Resolution Bkg %	Value
Master		190.8	Master		138.4	Master		8.017
150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)		
Master: 3-Aug-2015 21:03								

Hostile Litho-Density Sonde Master Calibration								
Detector Aluminum Measurement (bkgd-subtracted)								
Phase	LSW1 Aluminum CPS	Value	Phase	LSW2 Aluminum CPS	Value	Phase	LSW3 Aluminum CPS	Value
Master		504.7	Master		726.8	Master		878.5
420.0 (Minimum) 600.0 (Nominal) 770.0 (Maximum)			650.0 (Minimum) 900.0 (Nominal) 1150 (Maximum)			800.0 (Minimum) 1100 (Nominal) 1450 (Maximum)		
Phase	LSW4 Aluminum CPS	Value	Phase	LSW5 Aluminum CPS	Value	Phase	SSW1 Aluminum CPS	Value
Master		443.6	Master	EXCEEDS LIMIT	408.1	Master		2360
410.0 (Minimum) 580.0 (Nominal) 740.0 (Maximum)			410.0 (Minimum) 570.0 (Nominal) 740.0 (Maximum)			2000 (Minimum) 2800 (Nominal) 3200 (Maximum)		
Phase	SSW2 Aluminum CPS	Value	Phase	SSW3 Aluminum CPS	Value	Phase	SSW4 Aluminum CPS	Value
Master		6396	Master		8862	Master		3644
5800 (Minimum) 8000 (Nominal) 9300 (Maximum)			8300 (Minimum) 11600 (Nominal) 13500 (Maximum)			3500 (Minimum) 5000 (Nominal) 5800 (Maximum)		
Phase	SSW5 Aluminum CPS	Value						
Master		446.4						
430.0 (Minimum) 660.0 (Nominal) 770.0 (Maximum)								
Master: 3-Aug-2015 21:34								

Hostile Litho-Density Sonde Master Calibration								
Detector Litholog Measurement (bkgd-subtracted)								
Phase	LSW1 Iron CPS	Value	Phase	LSW2 Iron CPS	Value	Phase	LSW3 Iron CPS	Value
Master		344.5	Master		588.5	Master		781.6
290.0 (Minimum) 400.0 (Nominal) 560.0 (Maximum)			520.0 (Minimum) 730.0 (Nominal) 950.0 (Maximum)			720.0 (Minimum) 1000 (Nominal) 1350 (Maximum)		
Phase	LSW4 Iron CPS	Value	Phase	LSW5 Iron CPS	Value	Phase	SSW1 Iron CPS	Value
Master		405.5	Master		370.3	Master		1732
370.0 (Minimum) 520.0 (Nominal) 700.0 (Maximum)			340.0 (Minimum) 470.0 (Nominal) 750.0 (Maximum)			1500 (Minimum) 2100 (Nominal) 2400 (Maximum)		
Phase	SSW2 Iron CPS	Value	Phase	SSW3 Iron CPS	Value	Phase	SSW4 Iron CPS	Value
Master		5346	Master		8101	Master		3320
4900 (Minimum) 6800 (Nominal) 7900 (Maximum)			7800 (Minimum) 10800 (Nominal) 12600 (Maximum)			3300 (Minimum) 4600 (Nominal) 5400 (Maximum)		
Phase	SSW5 Iron CPS	Value						
Master	EXCEEDS LIMIT	398.5						

420.0 (Minimum)	580.0 (Nominal)	680.0 (Maximum)
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Hostile Litho-Density Sonde Master Calibration											
Quality Ratios											
Phase	AL CALIBRATION RATIO 1		Value	Phase	AL CALIBRATION RATIO 2		Value	Phase	AL CALIBRATION RATIO 3		Value
Master			1.031	Master			2.166	Master			0.5926
	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)		1.900 (Minimum)	2.100 (Nominal)	2.300 (Maximum)		0.4500 (Minimum)	0.5500 (Nominal)	0.6500 (Maximum)
Phase	AL CALIBRATION RATIO 4		Value	Phase	Pad-Wear SS Ratio		Value	Phase	Pad-Wear LS Ratio		Value
Master			0.5770	Master			0.9867	Master			0.9843
	0.4000 (Minimum)	0.5500 (Nominal)	0.6500 (Maximum)		0.9800 (Minimum)	0.9880 (Nominal)	0.9960 (Maximum)		0.9800 (Minimum)	0.9880 (Nominal)	0.9960 (Maximum)
Phase	Pad-Position SS Ratio		Value	Phase	Pad-Position LS Ratio		Value				
Master			1.006	Master			0.9952				
	0.9900 (Minimum)	0.9940 (Nominal)	1.015 (Maximum)		0.9850 (Minimum)	0.9940 (Nominal)	1.010 (Maximum)				

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Litho-Density Spectroscopy Cartridge - B / Equipment Identification		
Primary Equipment: LDSC Cartridge	LDSC - B	521
Auxiliary Equipment: LDSC Housing	LDSH - A	319

Enhanced DTS Cartridge / Equipment Identification		
Primary Equipment: EDTC Gamma Ray Detector	EDTG - A/B	8305
Enhanced DTS Cartridge	EDTC - B	8317
Auxiliary Equipment: EDTC Housing	EDTH - B	8303

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.852
	9.610 (Minimum)	9.810 (Nominal)
		10.01 (Maximum)

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			9.594	Before			152.3	Before			164.0
After			10.26	After			152.9	After			164.6
	0 (Minimum)	30.00 (Nominal)	120.0 (Maximum)		138.5 (Minimum)	152.3 (Nominal)	166.2 (Maximum)		149.0 (Minimum)	164.0 (Nominal)	179.0 (Maximum)

Before: 5-Aug-2015 7:56 After: 5-Aug-2015 9:33

Well: Expedition 356, Site U1459 C
Field: Indonesian Throughflow
Rig: JOIDES Resolution
Ocean: Indian

Hostile Natural Gamma Ray (HNGS)
HLDS–Caliper No sources
Magnetic Susceptibility (MSS)