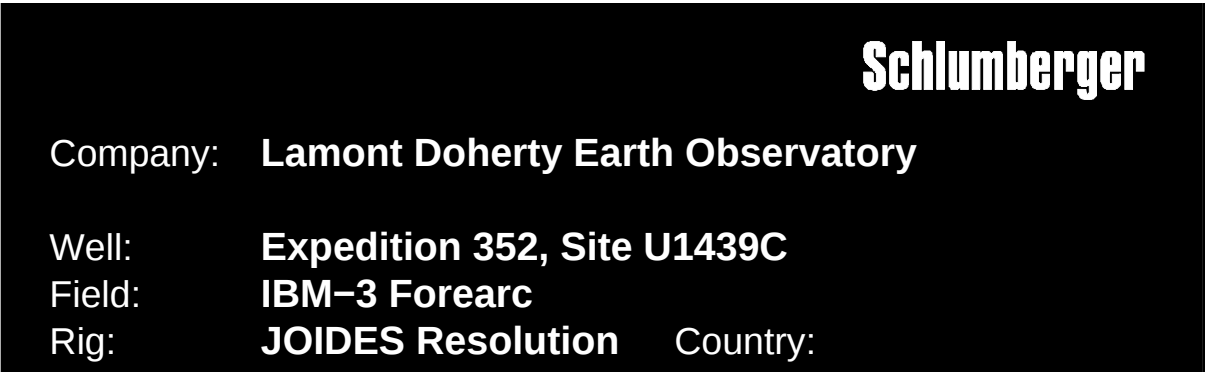


Rig: **JOIDES Resolution** Country:

Ocean: Pacific	Max. Well Deviation 0 deg	Longitude E 142.6089467	Latitude N 28.40749
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Logging Date			10-Sep-2014					
Run Number			1					
Depth Driller			544.3 m					
Schlumberger Depth			398.5 m					
Bottom Log Interval			369.7 m					
Top Log Interval			0 m					
Casing Driller Size @ Depth			10.750 in @ 178 m			@		
Casing Schlumberger			179 m					
Bit Size			9.875 in					
Type Fluid In Hole			Seawater					
MUD	Density	Viscosity	1.03 g/cm3					
	Fluid Loss	PH						
	Source Of Sample		N/A					
	RM @ Measured Temperature		@			@		
RMF @ Measured Temperature		@			@			
RMC @ Measured Temperature		@			@			
Source RMF	RMC	N/A	N/A					
RM @ MRT	RMF @ MRT	@ 7	@ 7	@	@			
Maximum Recorded Temperatures			7 degC					
Circulation Stopped		Time	10-Sep-2014		18:00			
Logger On Bottom		Time	10-Sep-2014		23:00			
Unit Number	Location	627314	Houston					
Recorded By			C. Furman					
Witnessed By			S. Morgan					

[illegible]

Run 4

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

REMARKS: RUN NUMBER 1

Hole drilled with RCB coring bit and bottom hole assembly (BHA). 9 7/8 " BS
Re-entry system and 10-3/4 in. casing deployed with casing shoe at 178mbsf.
Bit placed at 150mbsf (driller's depth) prior to logging.
Hole remained filled with sea water, as drilled, for logging.
Tools run as per tool sketch with upper section (HNGS & HLDS) eccentered using HLDS caliper and
lower section (HRLA & MSS) separated with knuckle joints and centralized using modified MCD inline bowsprings.
HLDS Caliper Arm was bent downhole prior to the second pass -- logs played back to correct for this offset.
Hole obstructed at a depth of 398.5mbsf; tools unable to pass below this depth; logs recorded from this depth up.
Casing shoe found at 179mbsf; bit (end of pipe) positioned at 149mbsf. Caliper closed at 158mbsf after casing check.
MSS Deep Reading (DR) sensor only was run centralized below HRLA.
Borehole corrections applied using corrected HLDS caliper (LCAL) for upward passes; bit size used for downlog.
Logs recorded in real-time with depth zero at drill floor; final depth adjusted to have zero at sea floor for core compatibility
Depth reference for this hole was the second pass of the first run; all other logs tied into that pass.

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

SERVICE ORDER #:
 PROGRAM VERSION:
 FLUID LEVEL:

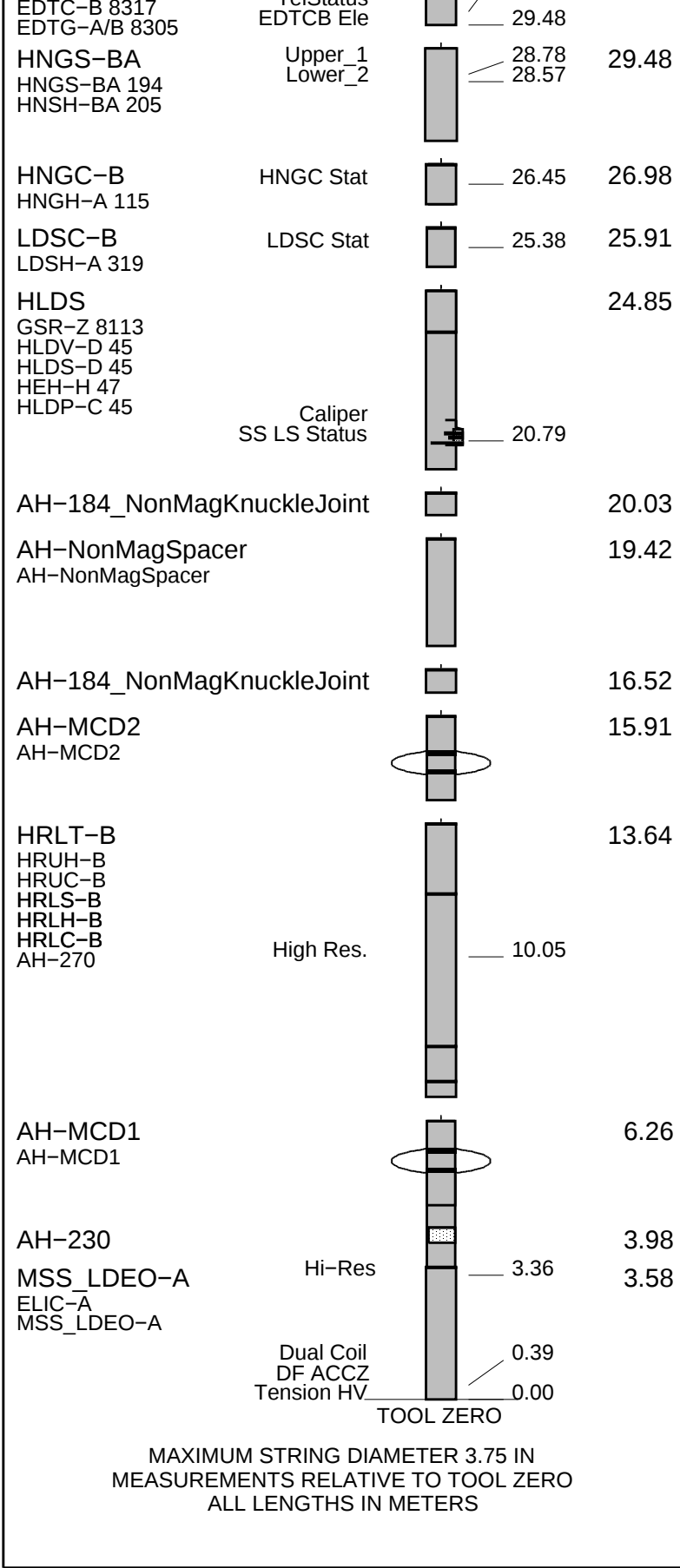
LOGGED INTERVAL	START	STOP
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RUN 1

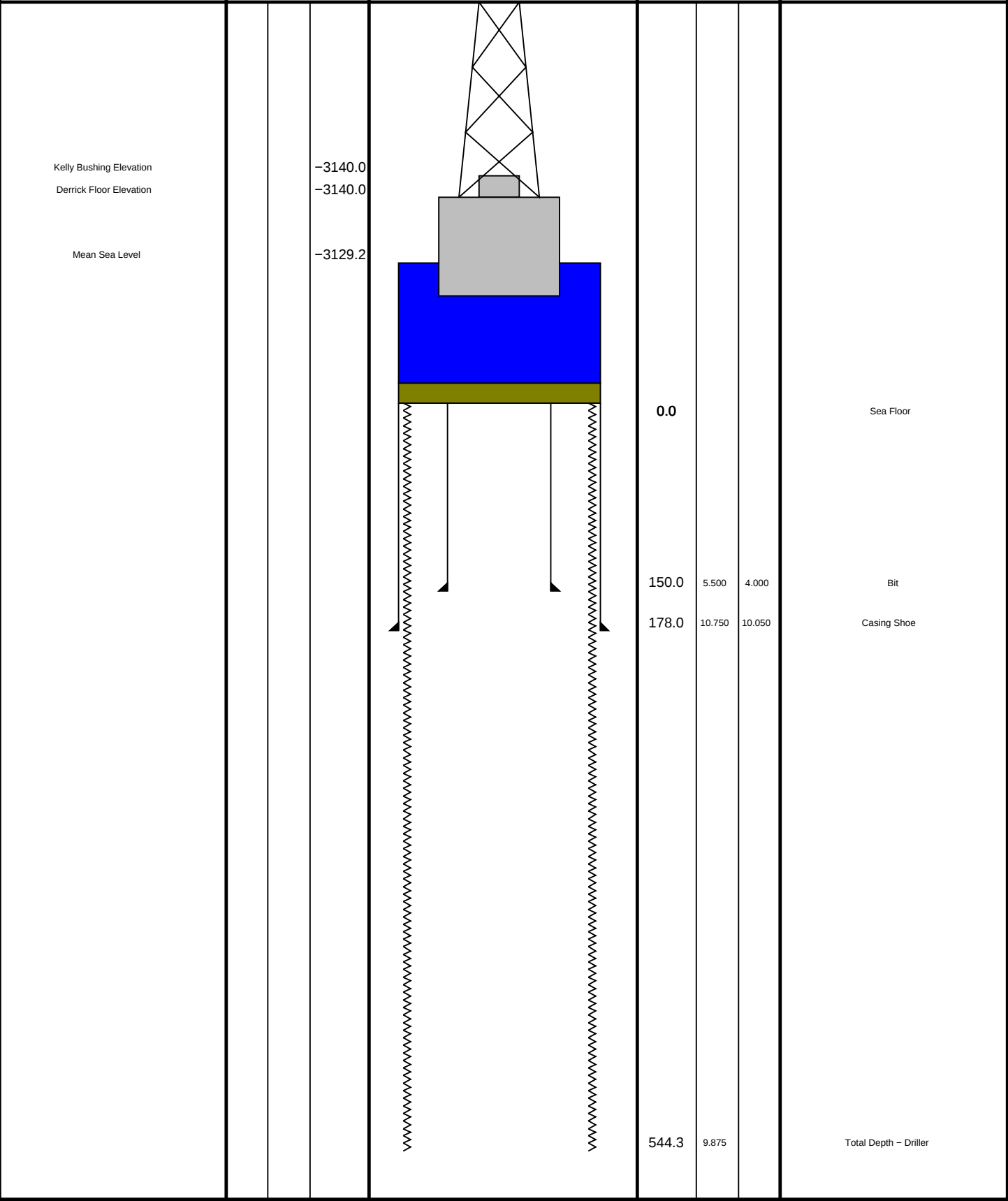
RUN 2

GSR-U 616008
WITM (EDTS)-A

LEH-QT				32.79
LEH-QT 301	MDSB_EDTC			
AH-369	Mud Tempe			
	CTEM			
EDTC-B	Gamma Ray			
EDTH-B 8303	EFTB DIAG			
	TelStatus			



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





Downlog

MAXIS Field Log

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_LDL_020LUP	PRODUCER	13-Sep-2014 10:29	3544.0 M	3070.1 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:22	PRODUCER	13-Sep-2014 10:30	401.9 M	-24.2 M
CUST	MSS_LDEO_HRLA_LDL_021PUC	FN:23	CUSTOMER	13-Sep-2014 10:30	401.9 M	-24.2 M

OP System Version: 19C0-187

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

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)

0 (GAPI) 100

Area1
From HCGR to HSGR

HNGS Borehole Potassium (HBHK)

-0.05 (----) 0.05

HNGS Computed Gamma Ray (HCGR)

0 (GAPI) 100

Calibrated Downhole Force (CDF) (LBF)

3000 0

HNGS Uranium (HURA) (PPM)

-5 10

HLDS Caliper (LCAL) (IN)

0 20

Tension (TENS) (LBF)

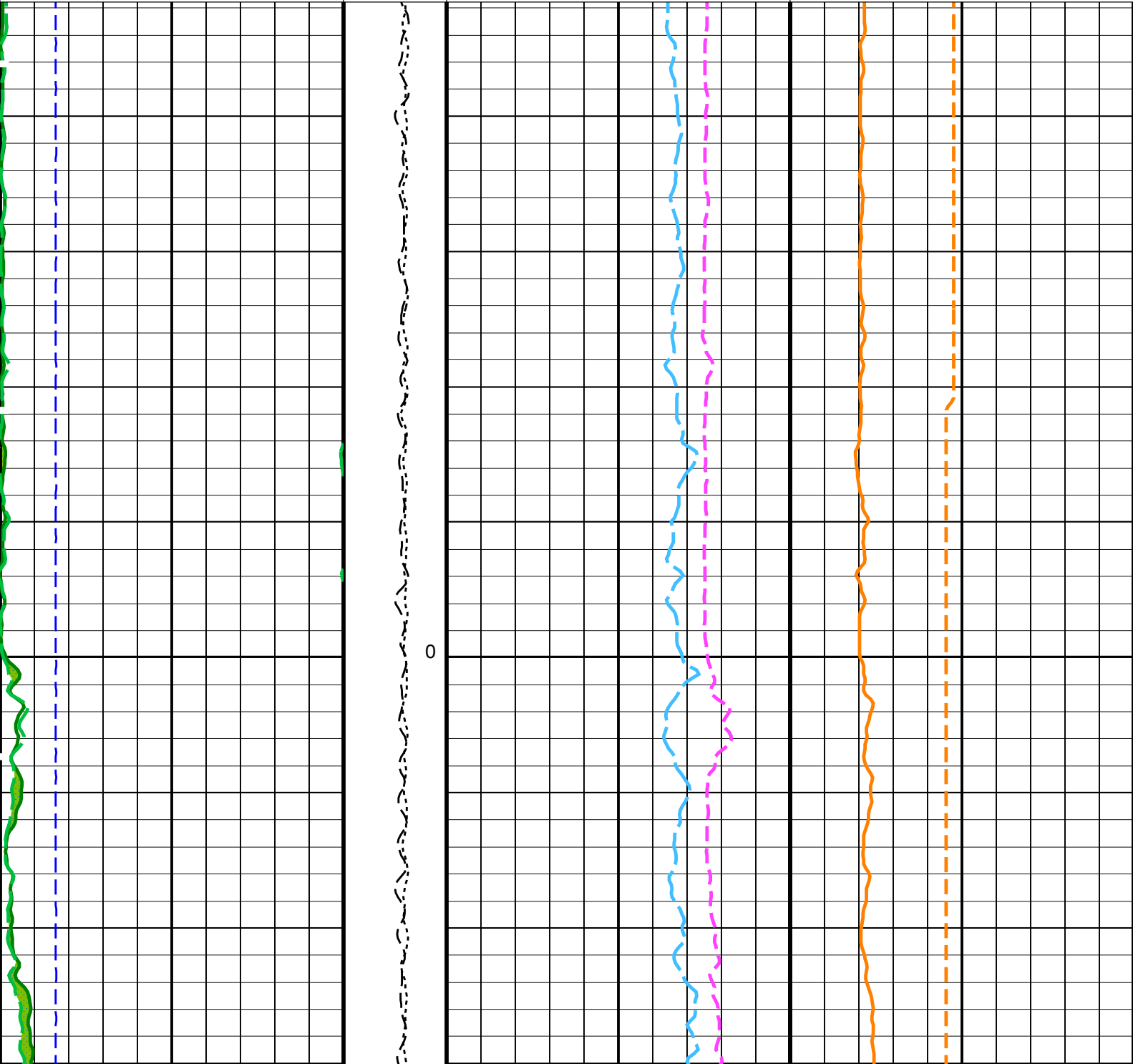
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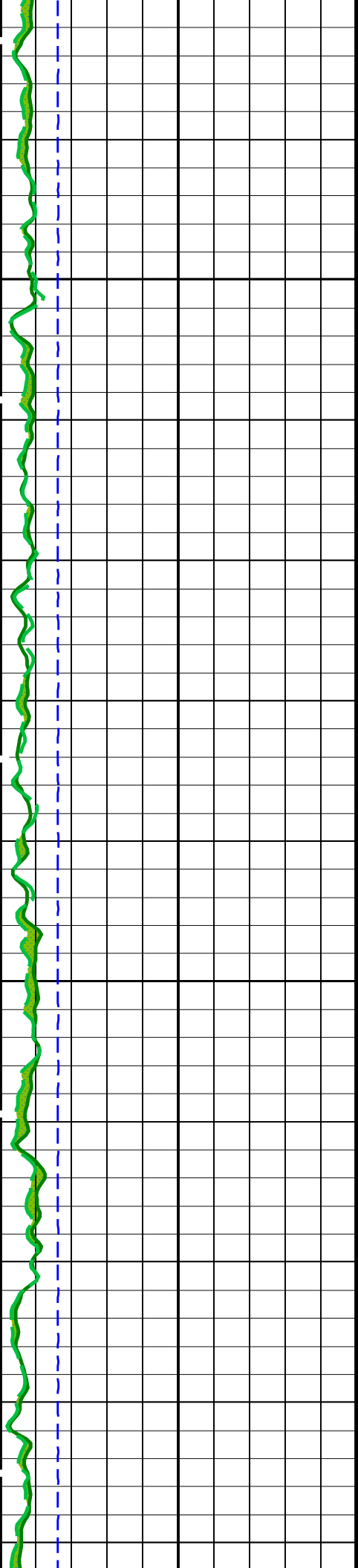
HNGS Thorium (HTHO) (PPM)

5 25

HNGS Potassium (HFK) (PPM)

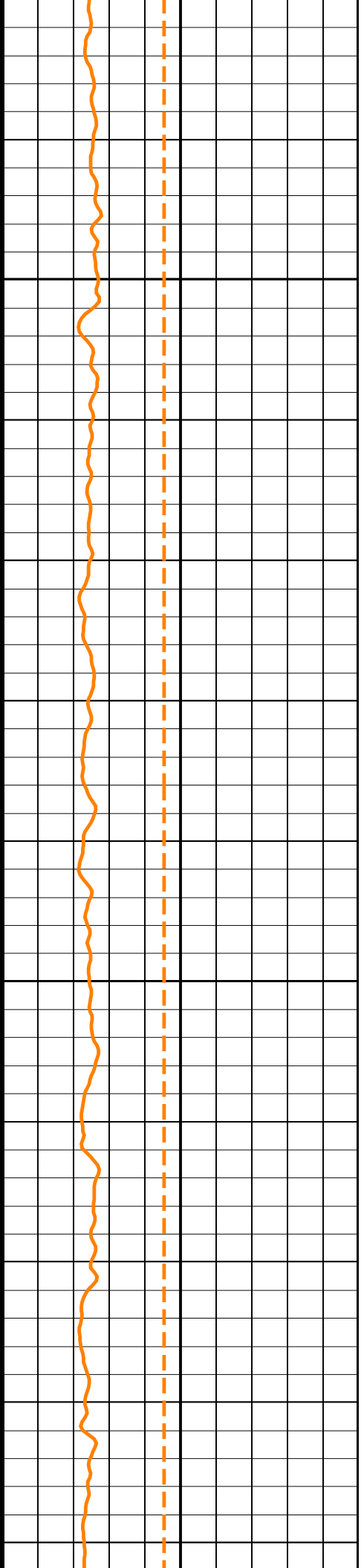
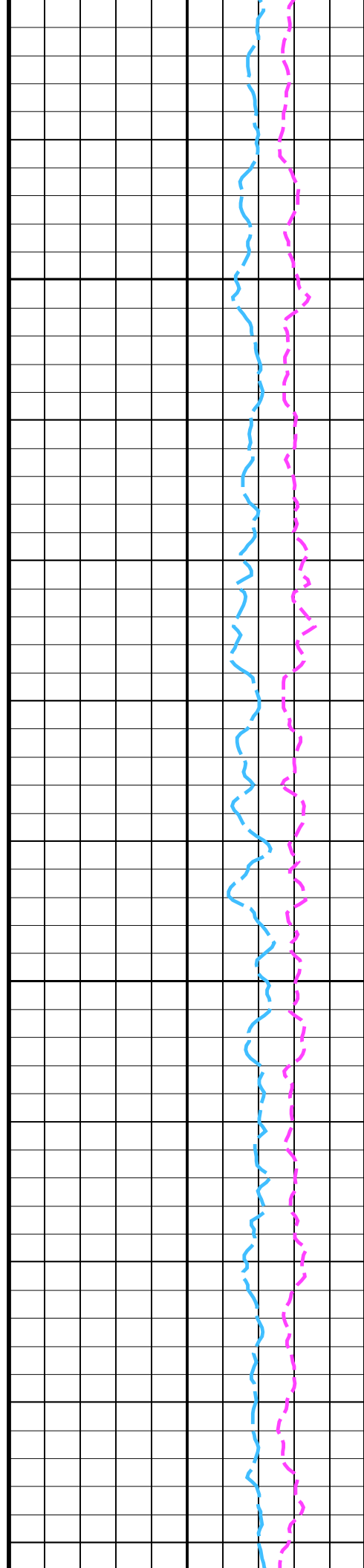
-0.01 (----) 0.04

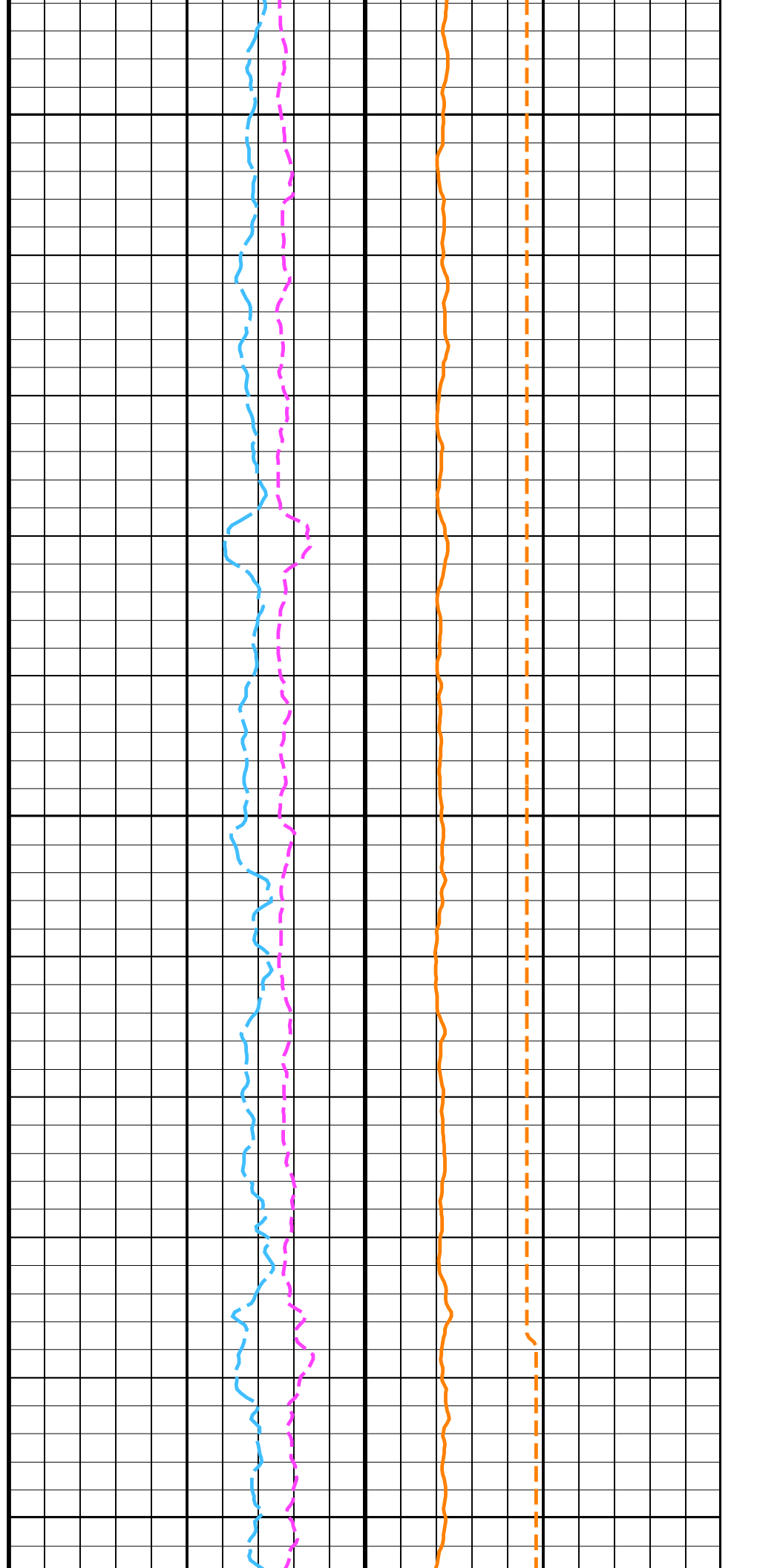
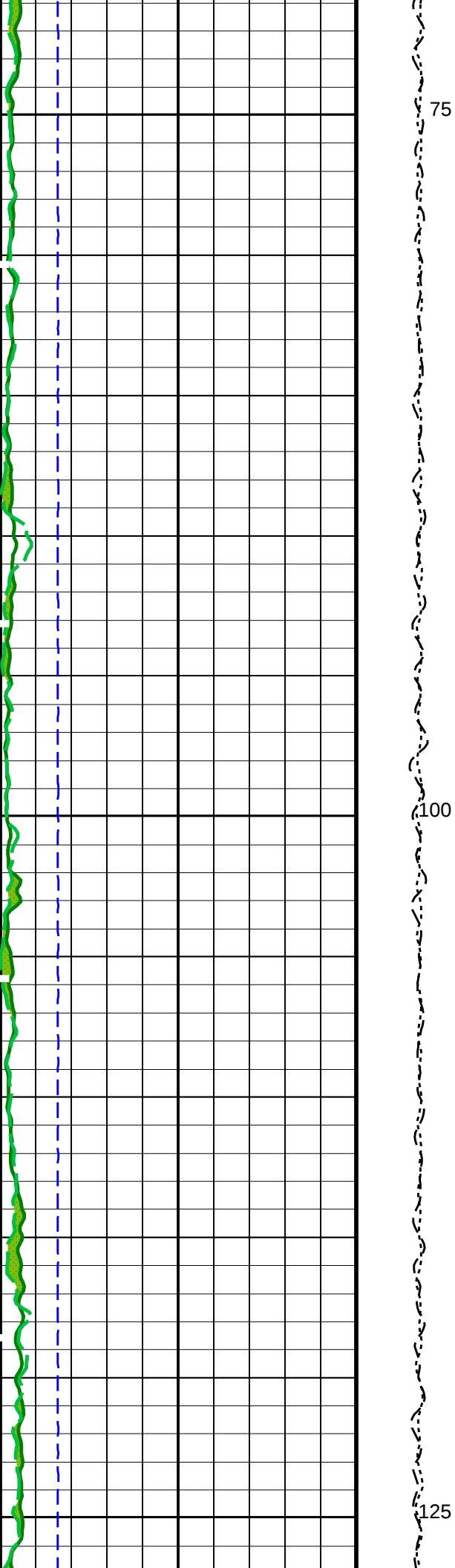


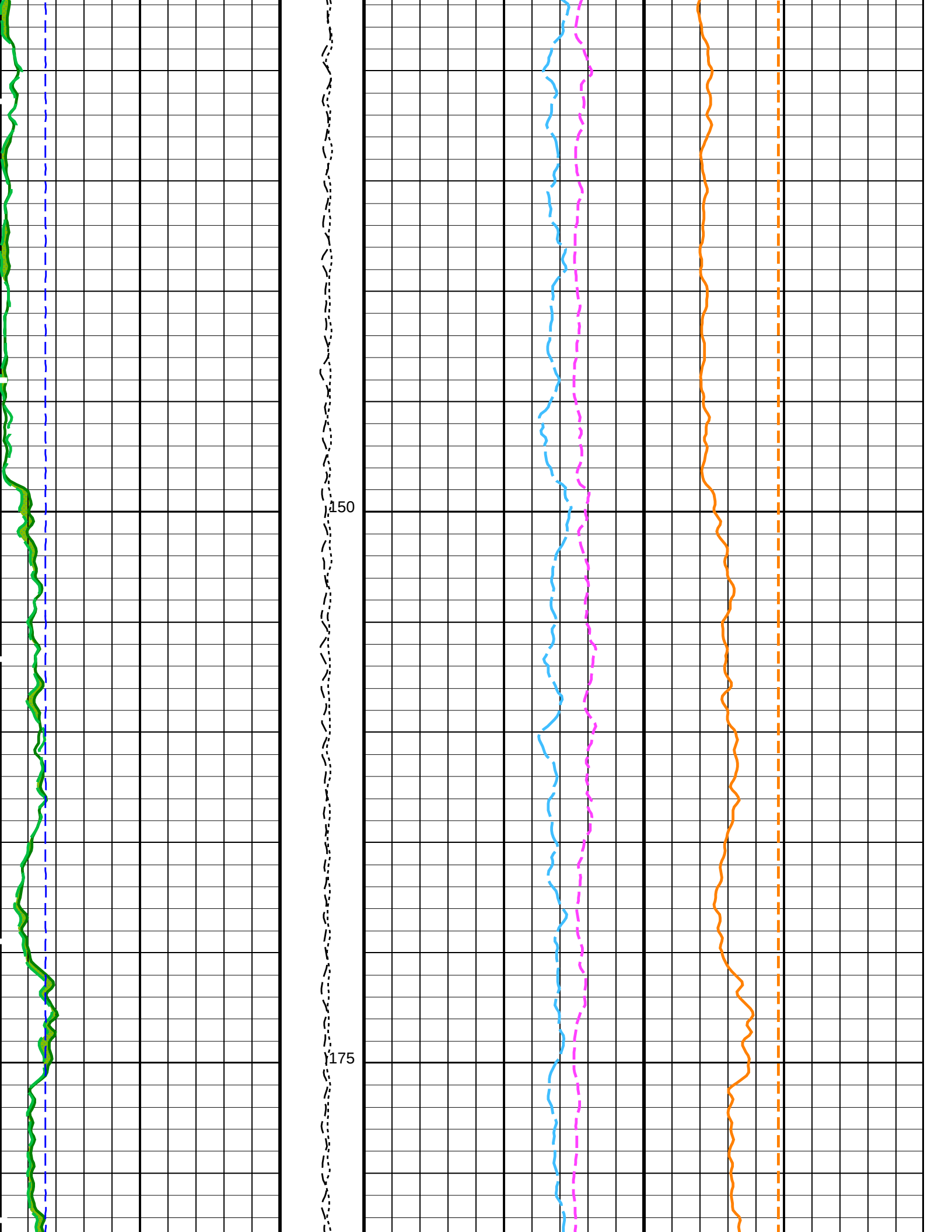


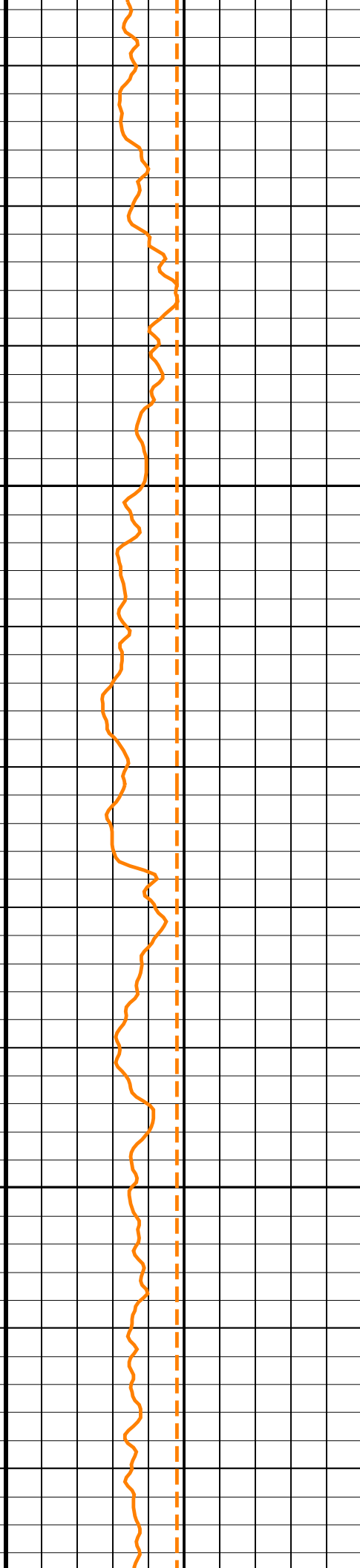
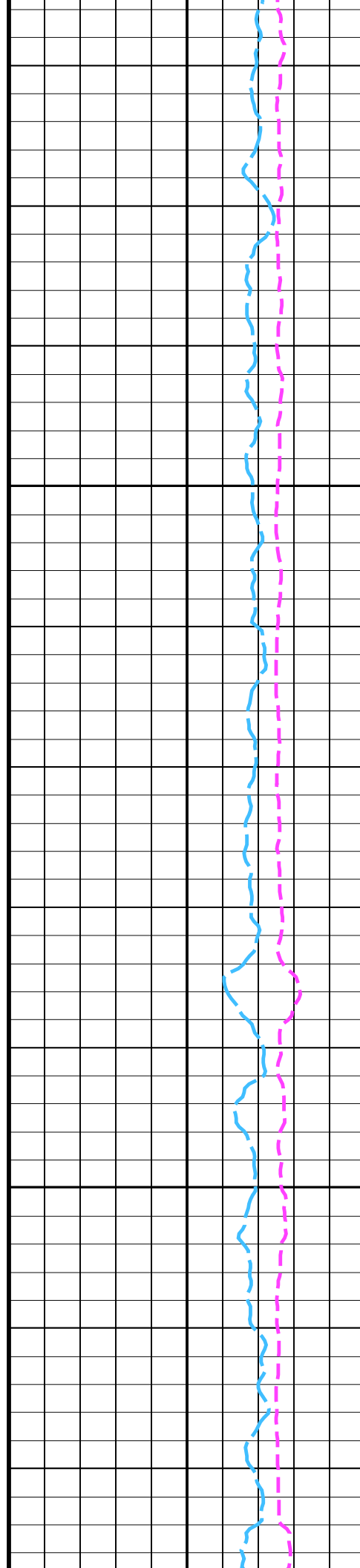
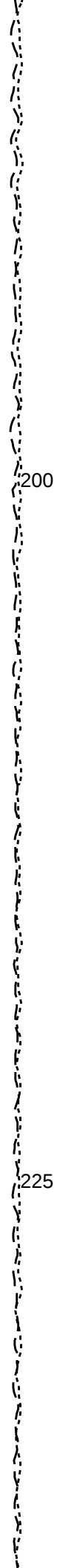
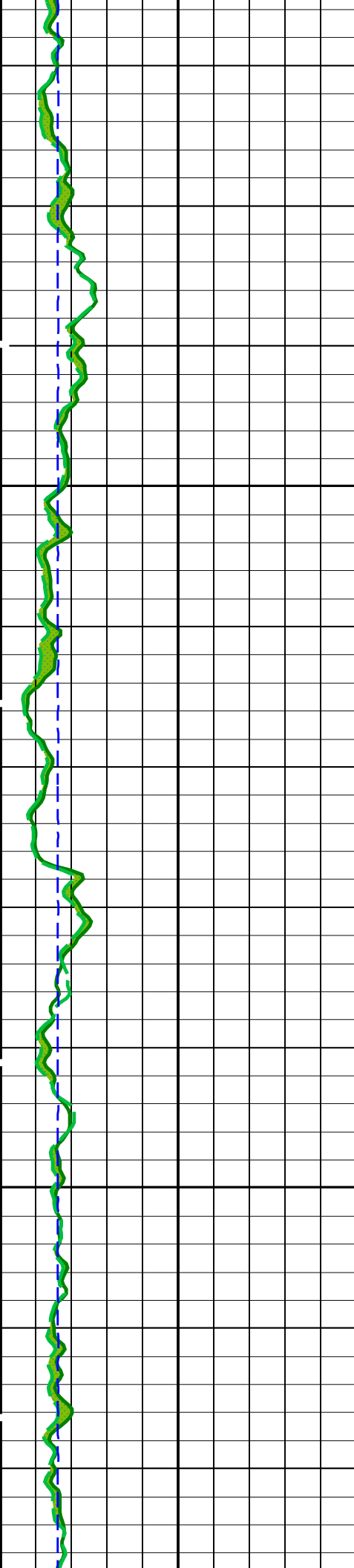
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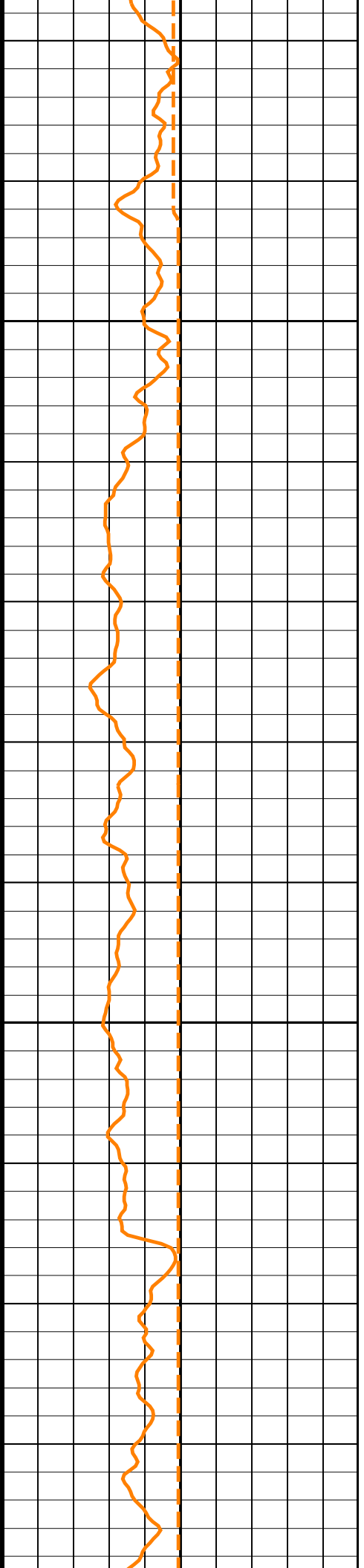
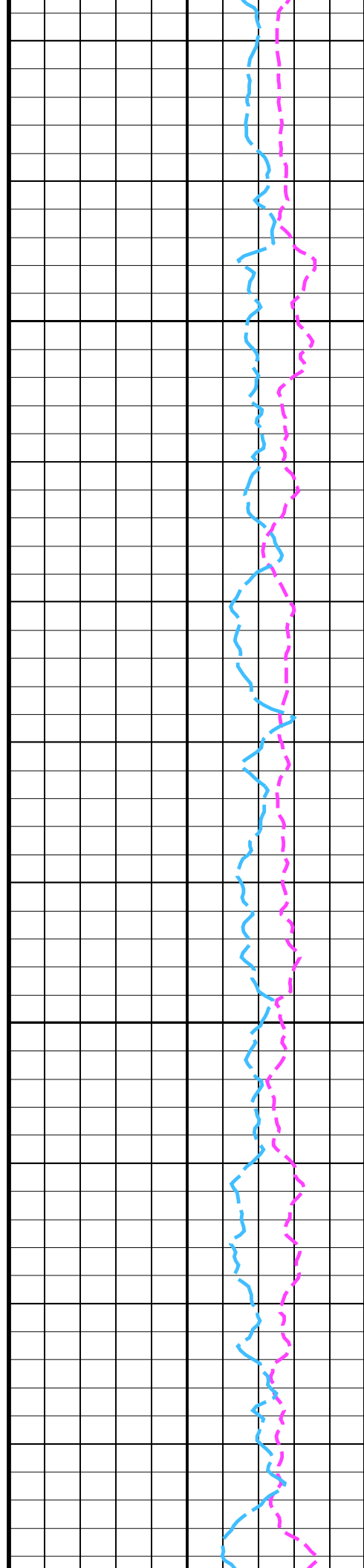
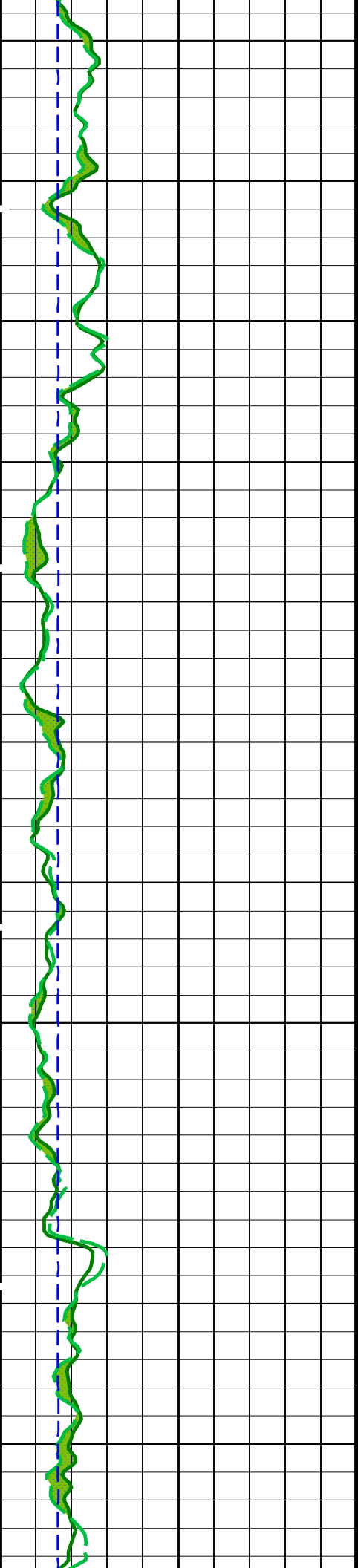
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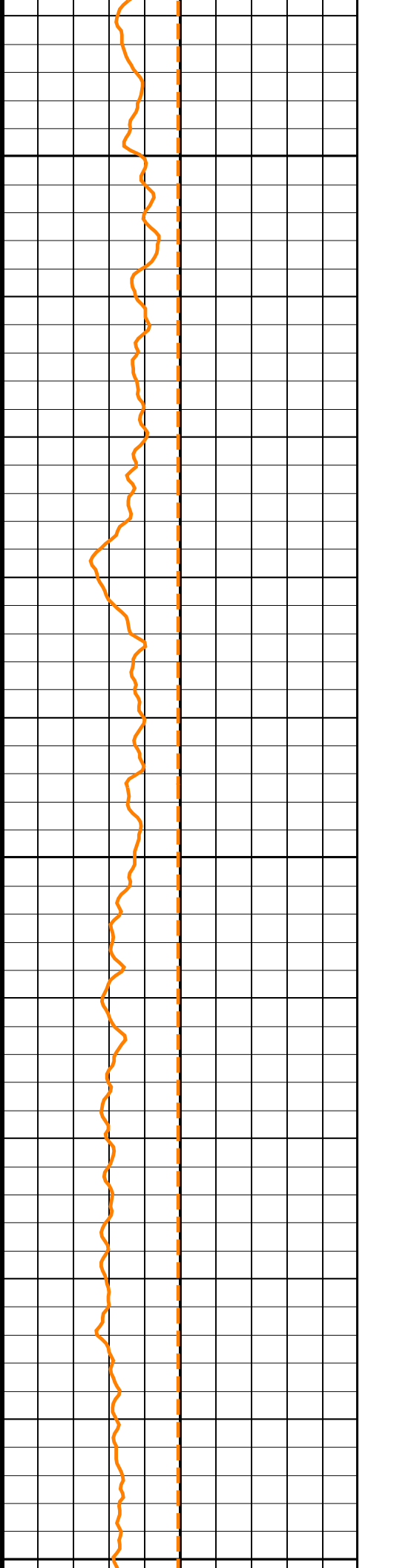
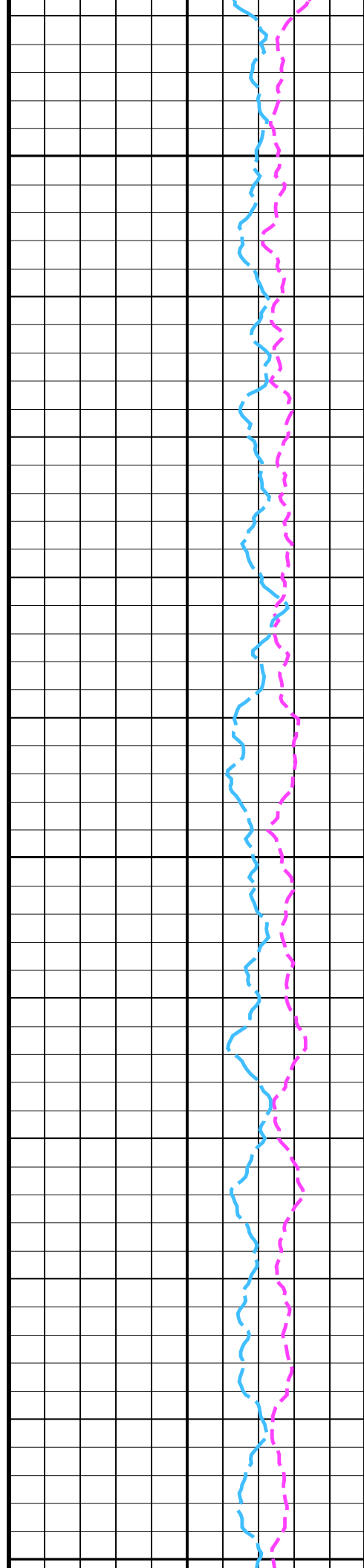
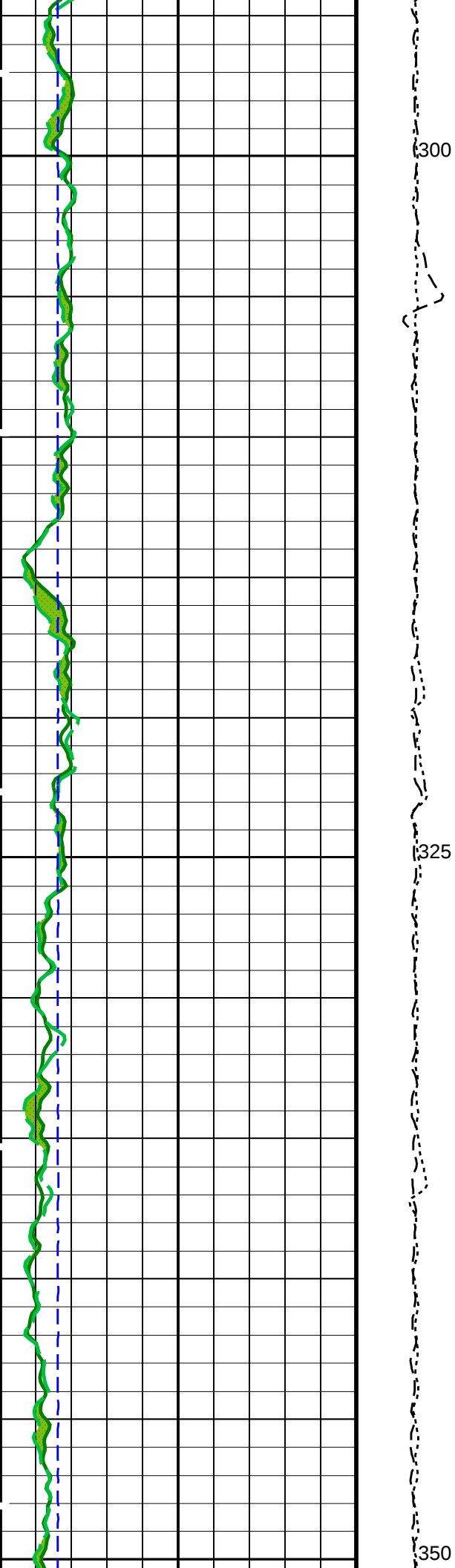


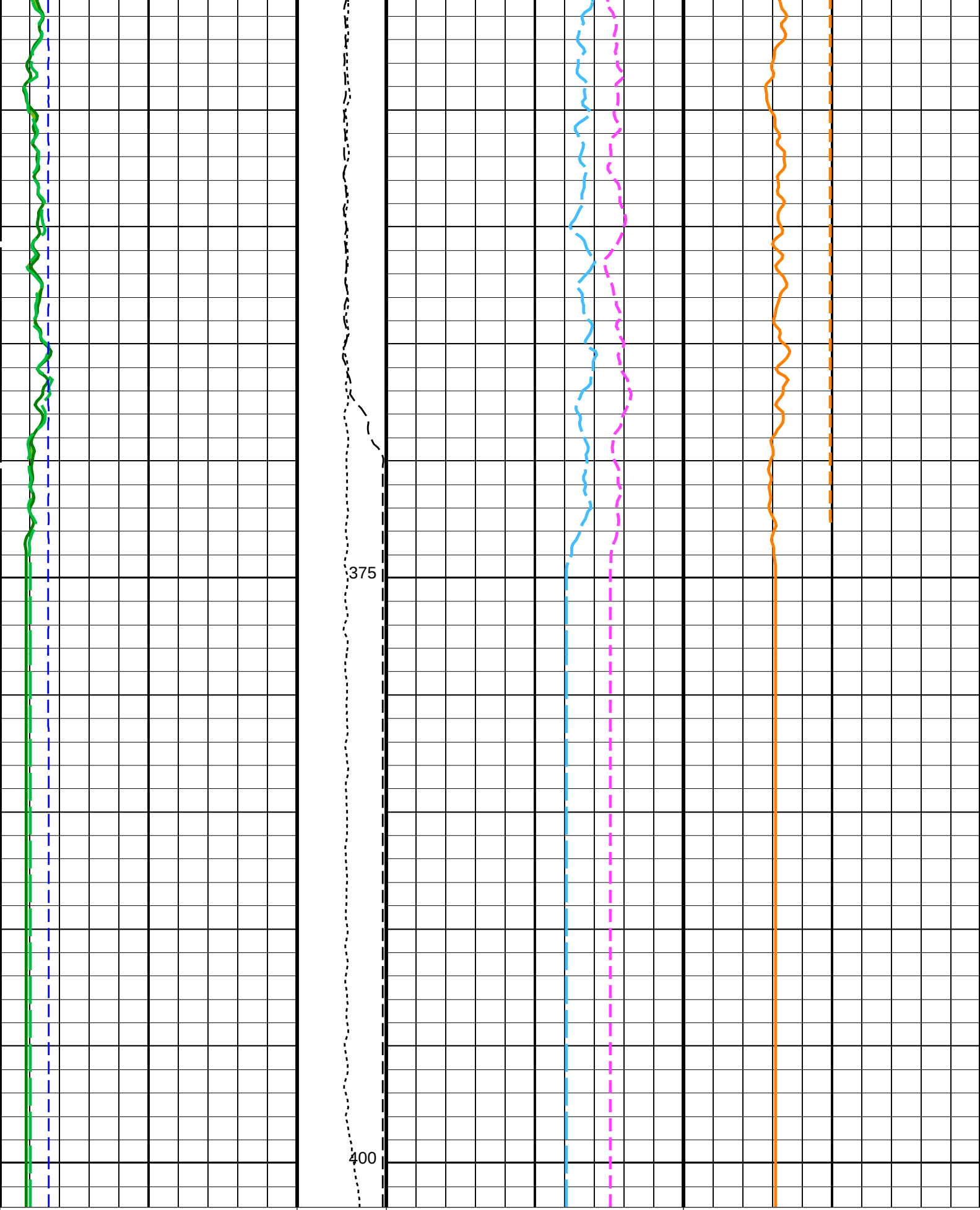






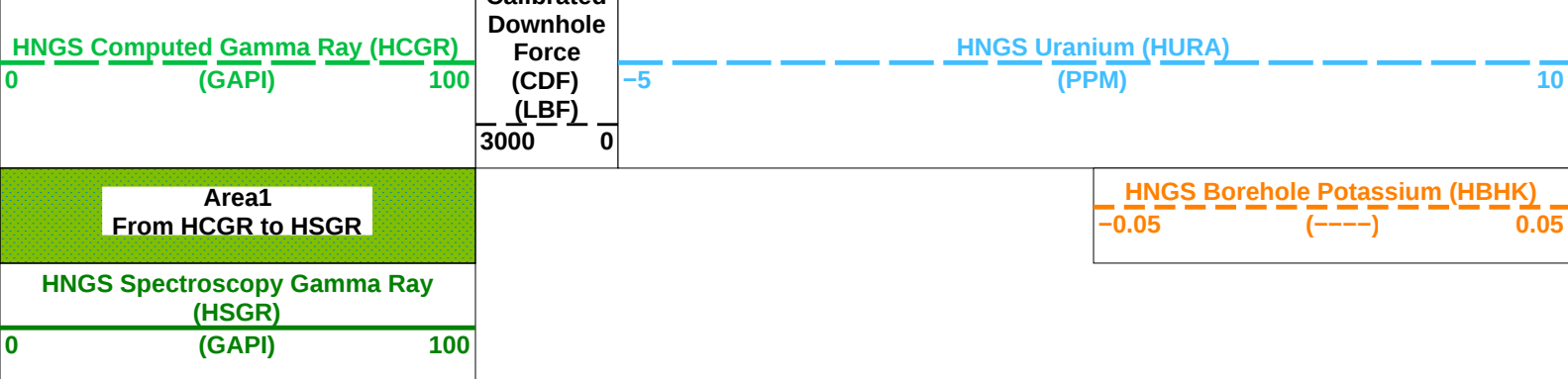






HLDS Caliper (LCAL) (IN)	Tension (TENS) (LBF)	HNGS Thorium (HTHO) (PPM)	HNGS Potassium (HFK) (-----)
0	10000	5	-0.01
20	0	25	0.04

Calibrated



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array – B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	–0.00125045	
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	1.03728	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.04391	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DO	Depth Offset for Playback	–3142.1	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 13-Sep-2014 10:30

OP System Version: 19C0-187

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

Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_020LUP	PRODUCER	13-Sep-2014 10:29	3544.0 M	3070.1 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_021PUP	FN:22	PRODUCER	13-Sep-2014 10:30
CUST	MSS_LDEO_HRLA_LDL_021PUC	FN:23	CUSTOMER	13-Sep-2014 10:30

Input DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_008LUP FN:7 PRODUCER 10-Sep-2014 18:42 3541.0 M 3351.3 M

Output DLIS Files

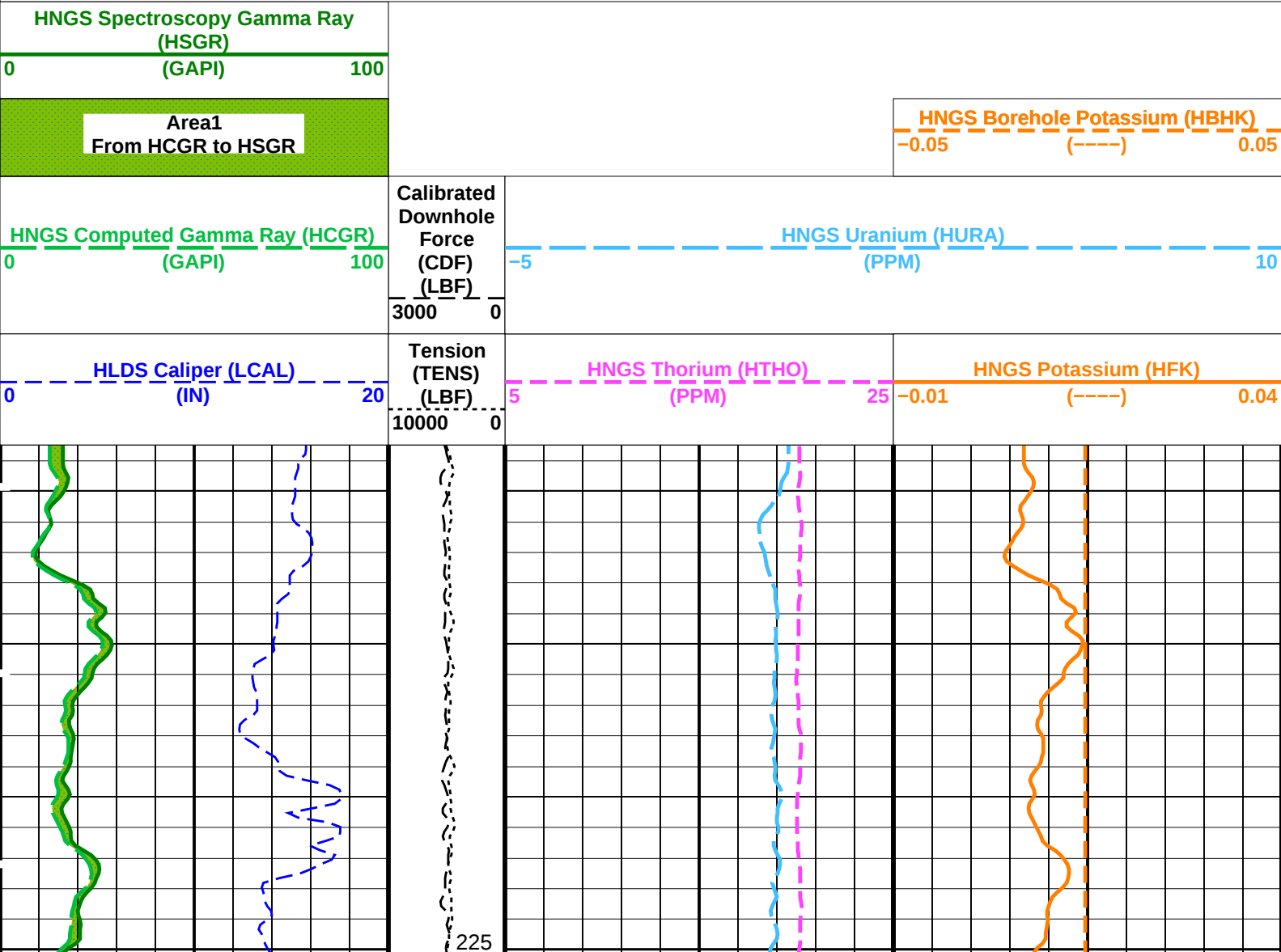
DEFAULT MSS_LDEO_HRLA_LDL_019PUP FN:20 PRODUCER 13-Sep-2014 10:23 399.3 M 208.5 M
CUST MSS_LDEO_HRLA_LDL_019PUC FN:21 CUSTOMER 13-Sep-2014 10:23 399.3 M 208.5 M

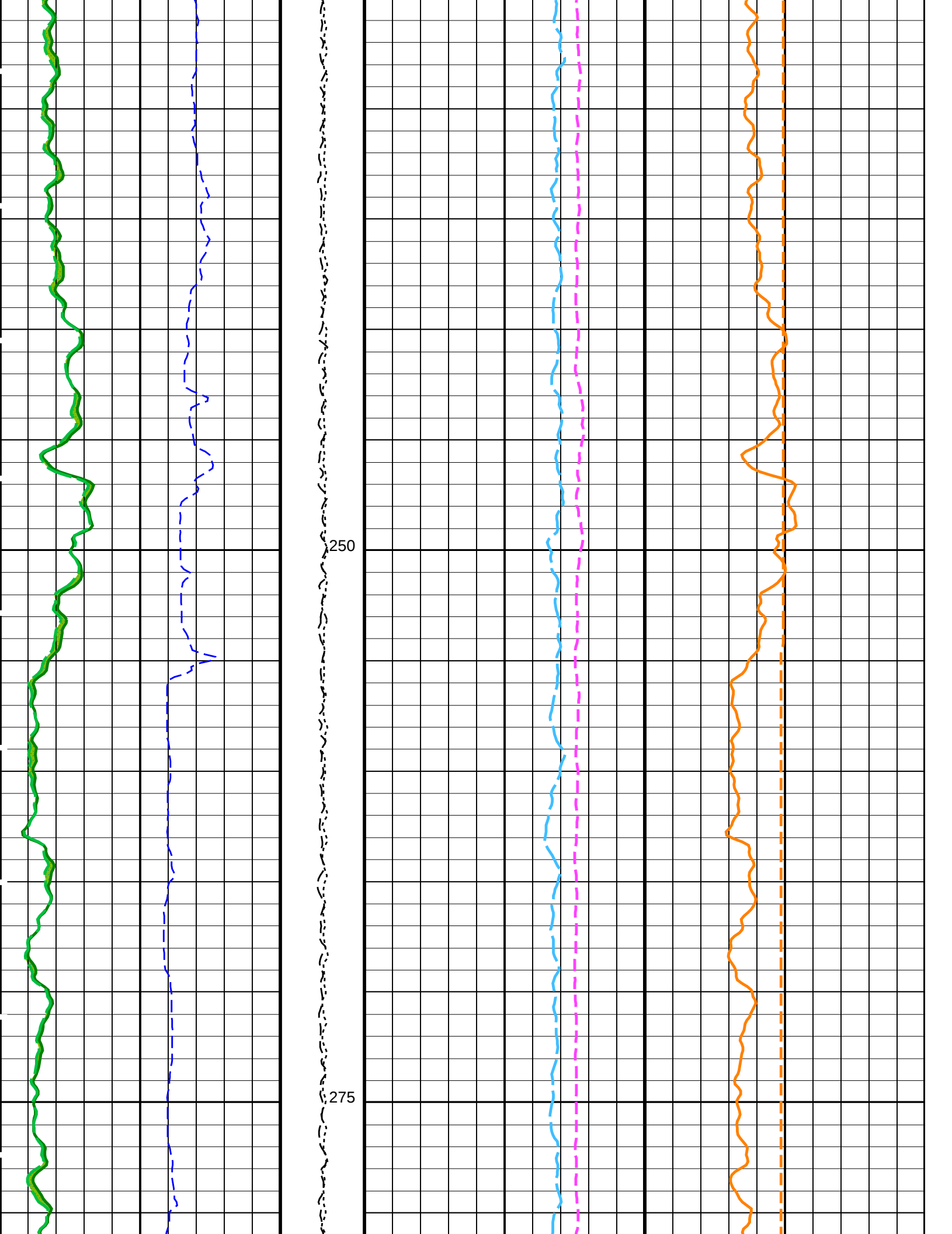
OP System Version: 19C0-187

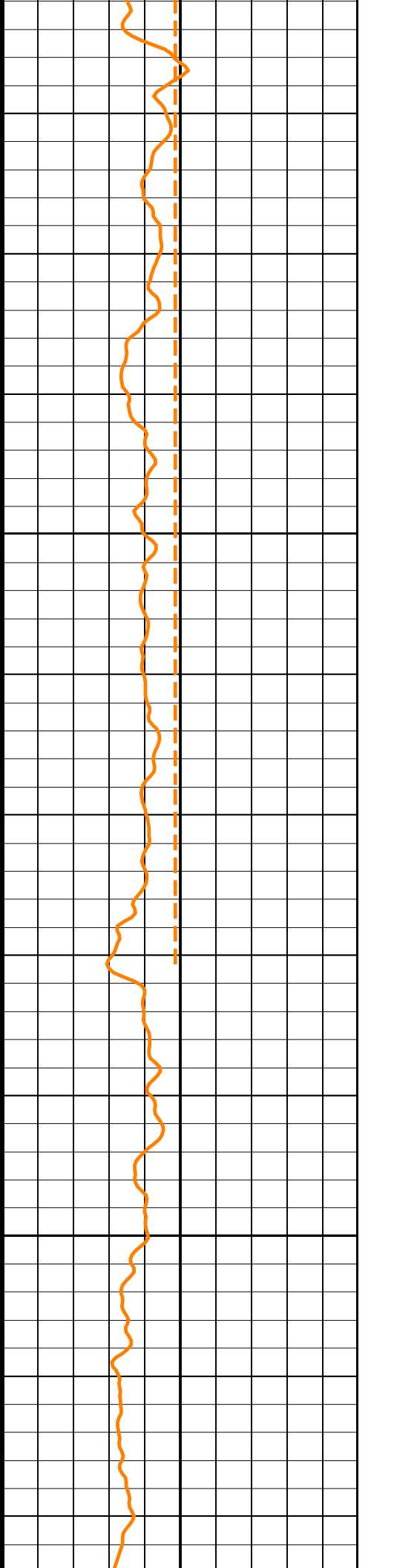
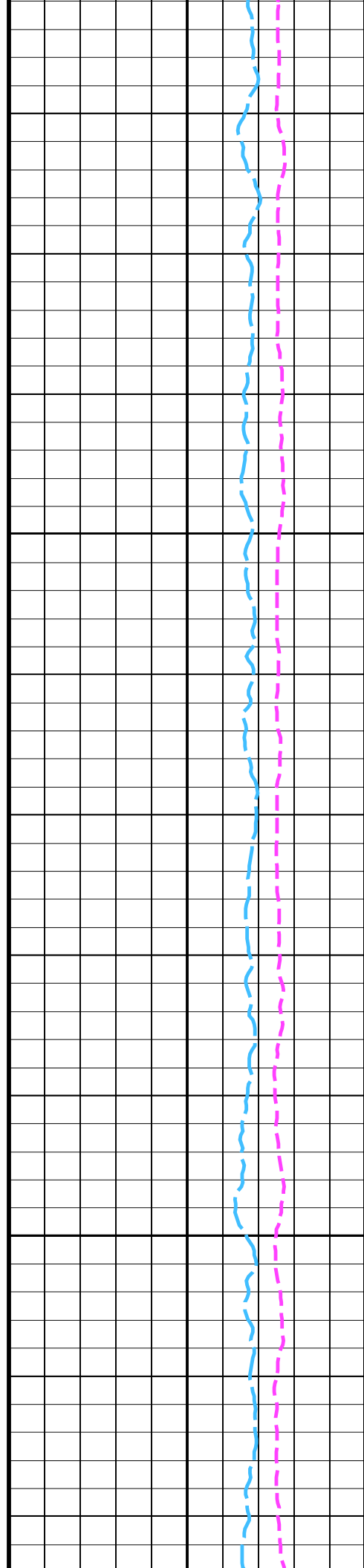
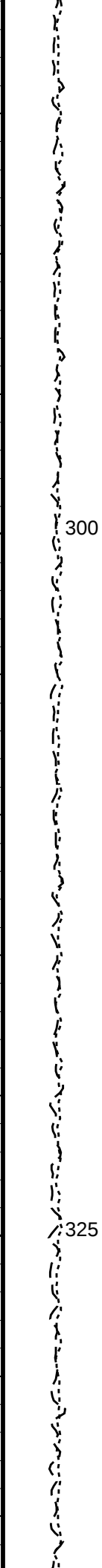
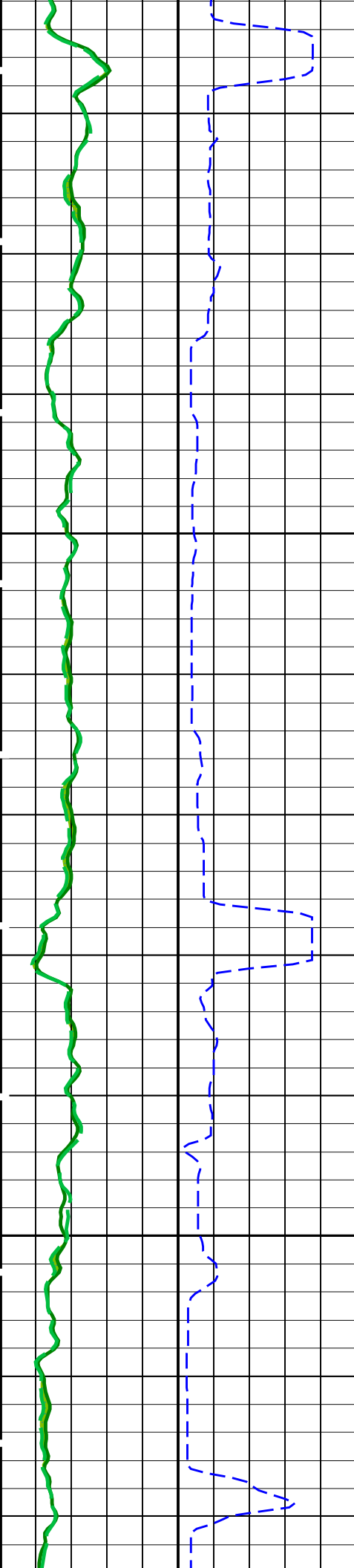
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HLDS 19C0-187 LDSC-B 19C0-187
HNGC-B 19C0-187 HNGS-BA 19C0-187
EDTC-B SKK-5169-EDTCB

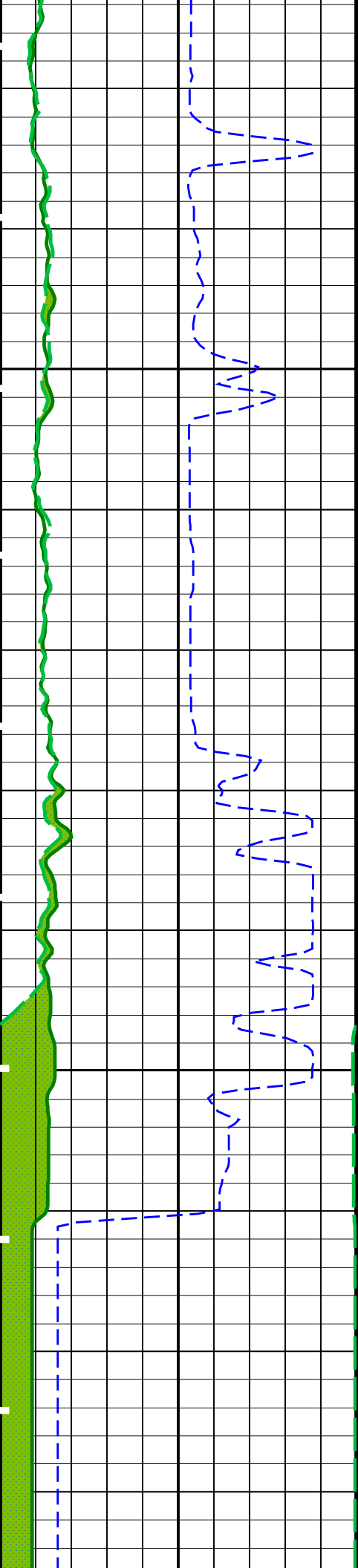
PIP SUMMARY

Time Mark Every 60 S

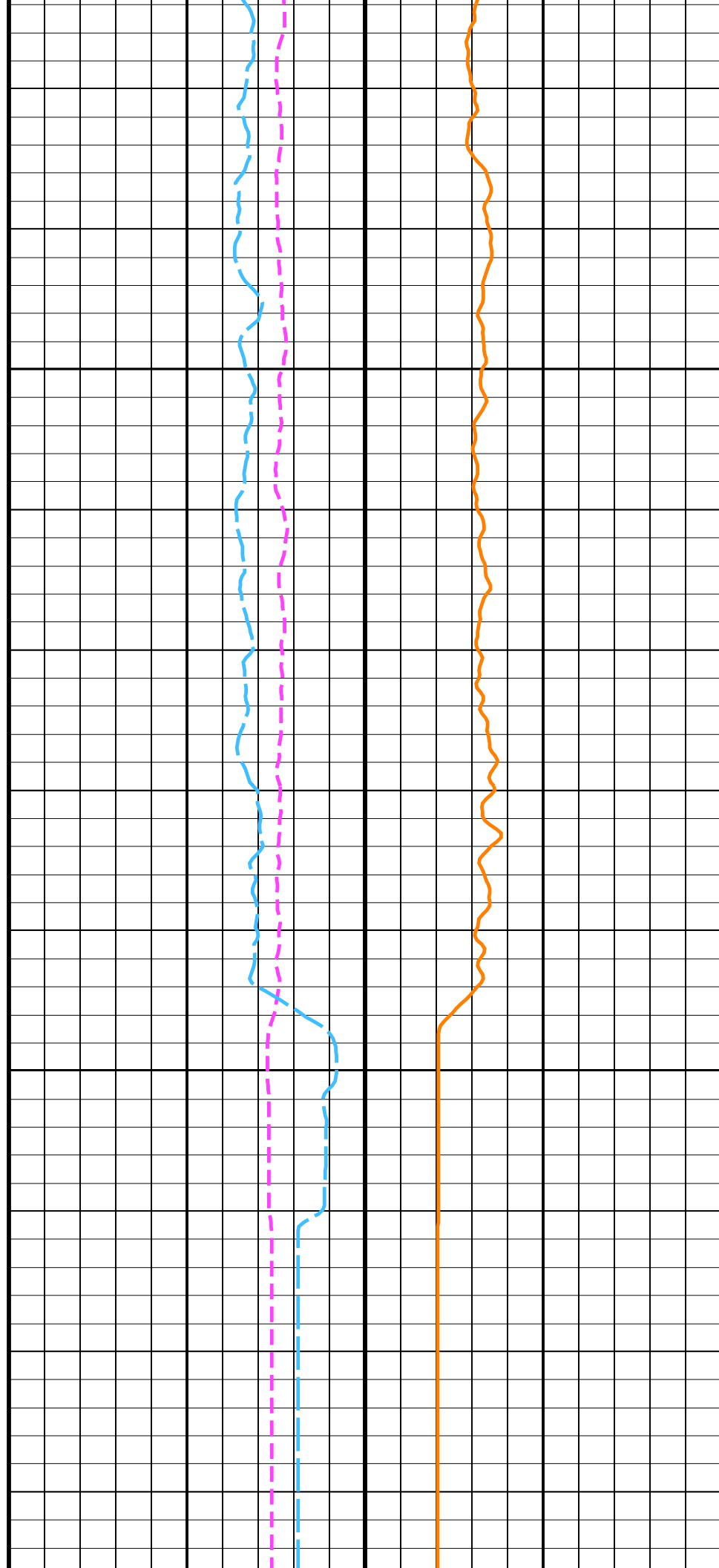


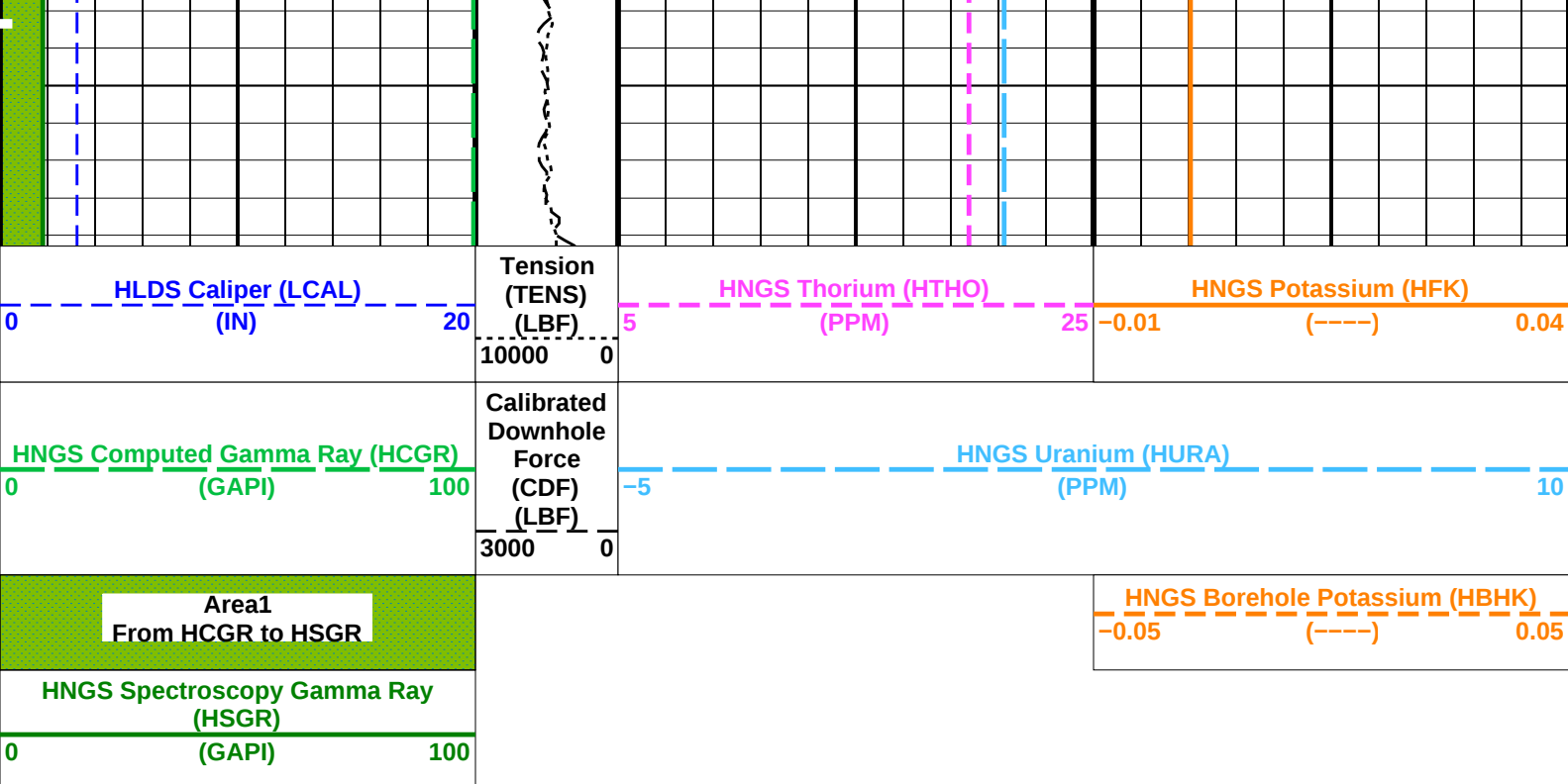






350
375





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
HNCS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNCS Detector 1 Barite Constant	1
BAR2	HNCS Detector 2 Barite Constant	1
BHK	HNCS 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	HNCS Barite Constant Correction Flag	NONE
GCSE	Generalized Caliper Selection	LCAL
H1P	HNCS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNCS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNCS Borehole Potassium Running Average	-0.00125049
HALF	HNCS Alpha Filter Length	60 IN
HCRB	HNCS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	BARI
HNPE	HNCS Processing Enable	YES
S1BI	HNCS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNCS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNCS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNCS Detector 1 Variable Barite Factor Running Average	1.03728
VBA2	HNCS Detector 2 Variable Barite Factor Running Average	1.04391
EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
System and Miscellaneous		
BS	Bit Size	9.875 IN
DO	Depth Offset for Playback	-3141.5 M
PP	Playback Processing	RECOMPUTE

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 13-Sep-2014 10:23

OP System Version: 19C0-187

MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
HNGC-B	19C0-187	HNCS-BA	19C0-187
EDTC-B	19C0-187		

EDTC-B	SKK-5169-EDTCB					
Input DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_008LUP	FN:7	PRODUCER	10-Sep-2014 18:42	3541.0 M	3351.3 M
Output DLIS Files						
DEFAULT	MSS_LDEO_HRLA_LDL_019PUP	FN:20	PRODUCER	13-Sep-2014 10:23		
CUST	MSS_LDEO_HRLA_LDL_019PUC	FN:21	CUSTOMER	13-Sep-2014 10:23		

Schlumberger

Second Pass

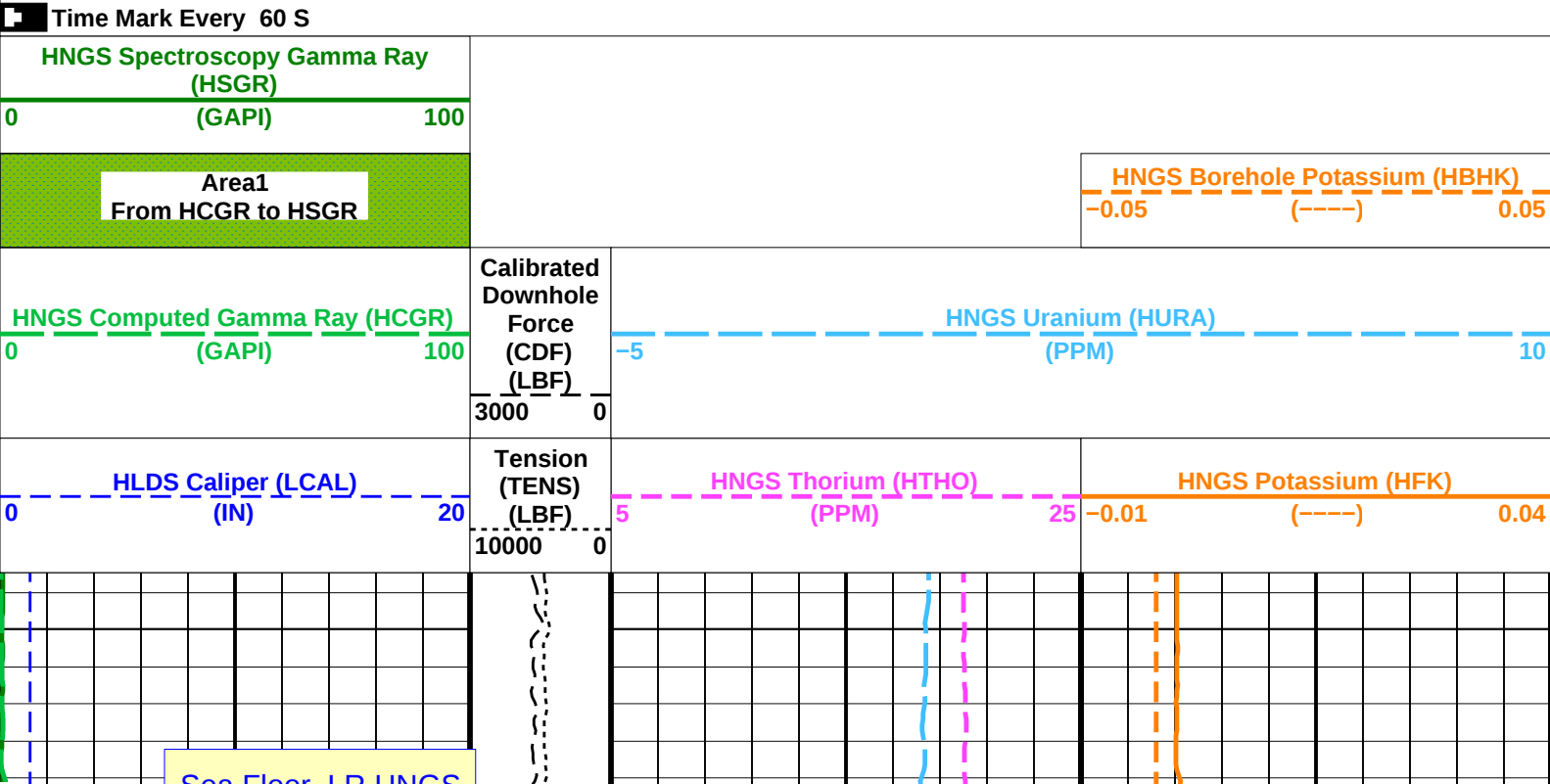
MAXIS Field Log

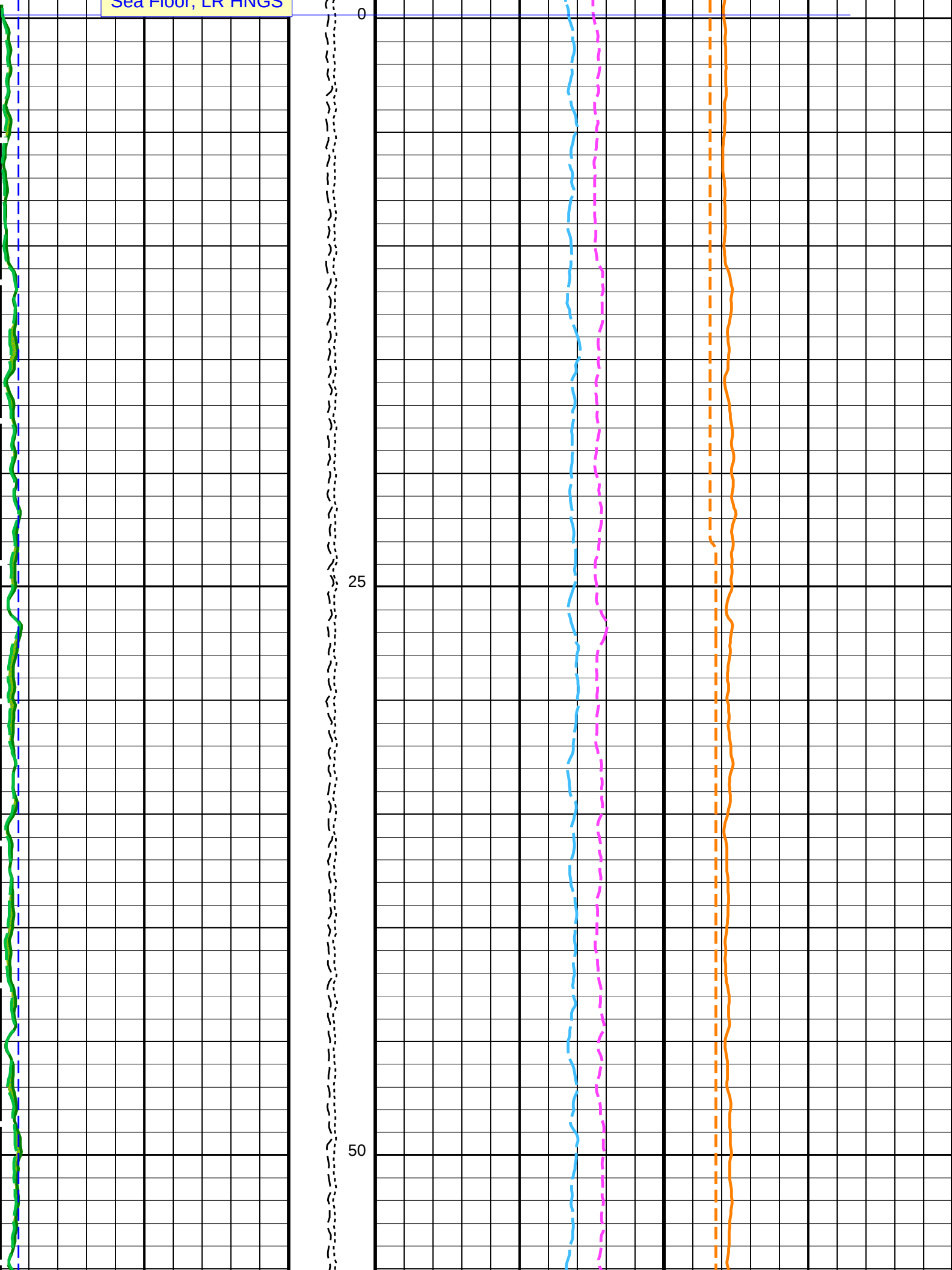
Input DLIS Files						
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Output DLIS Files						
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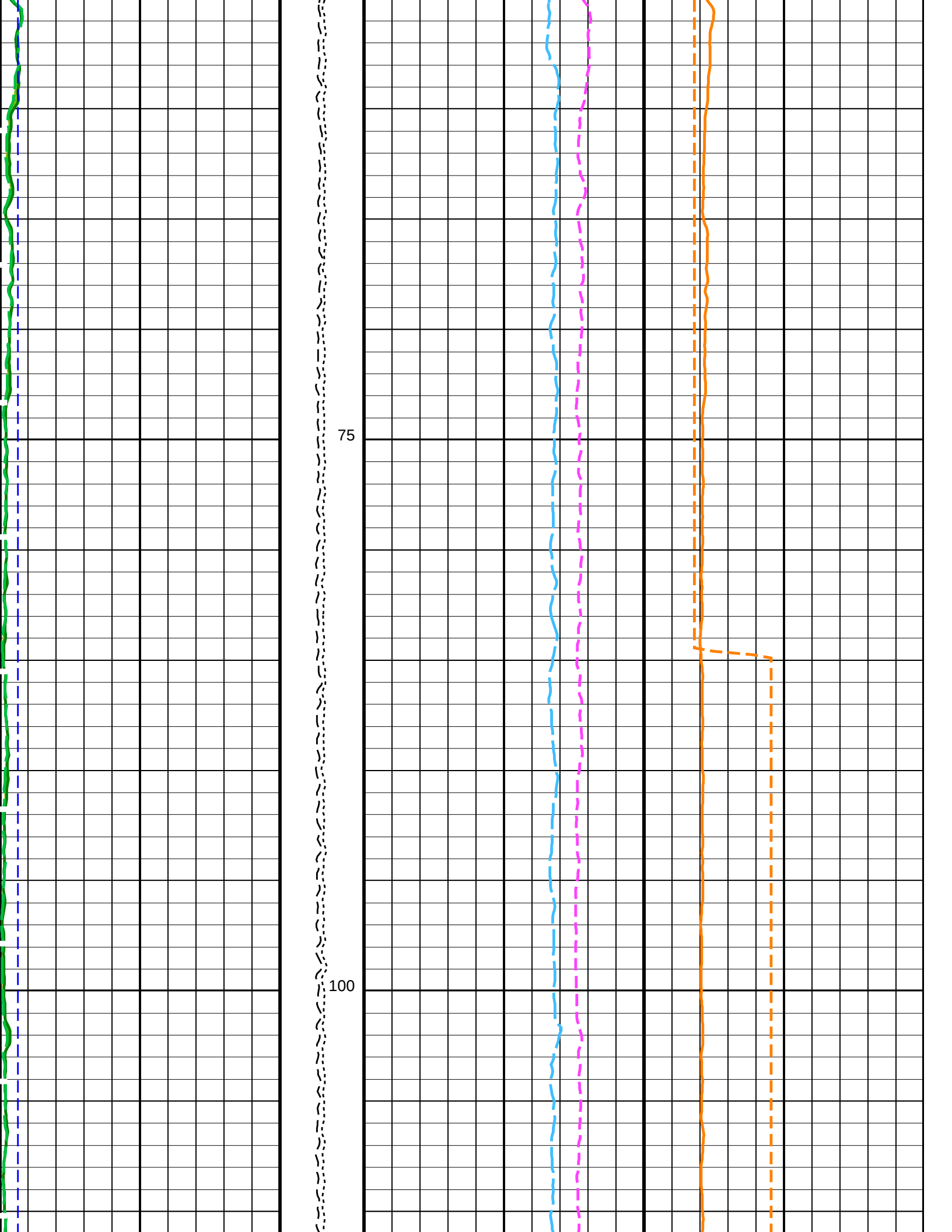
OP System Version: 19C0-187

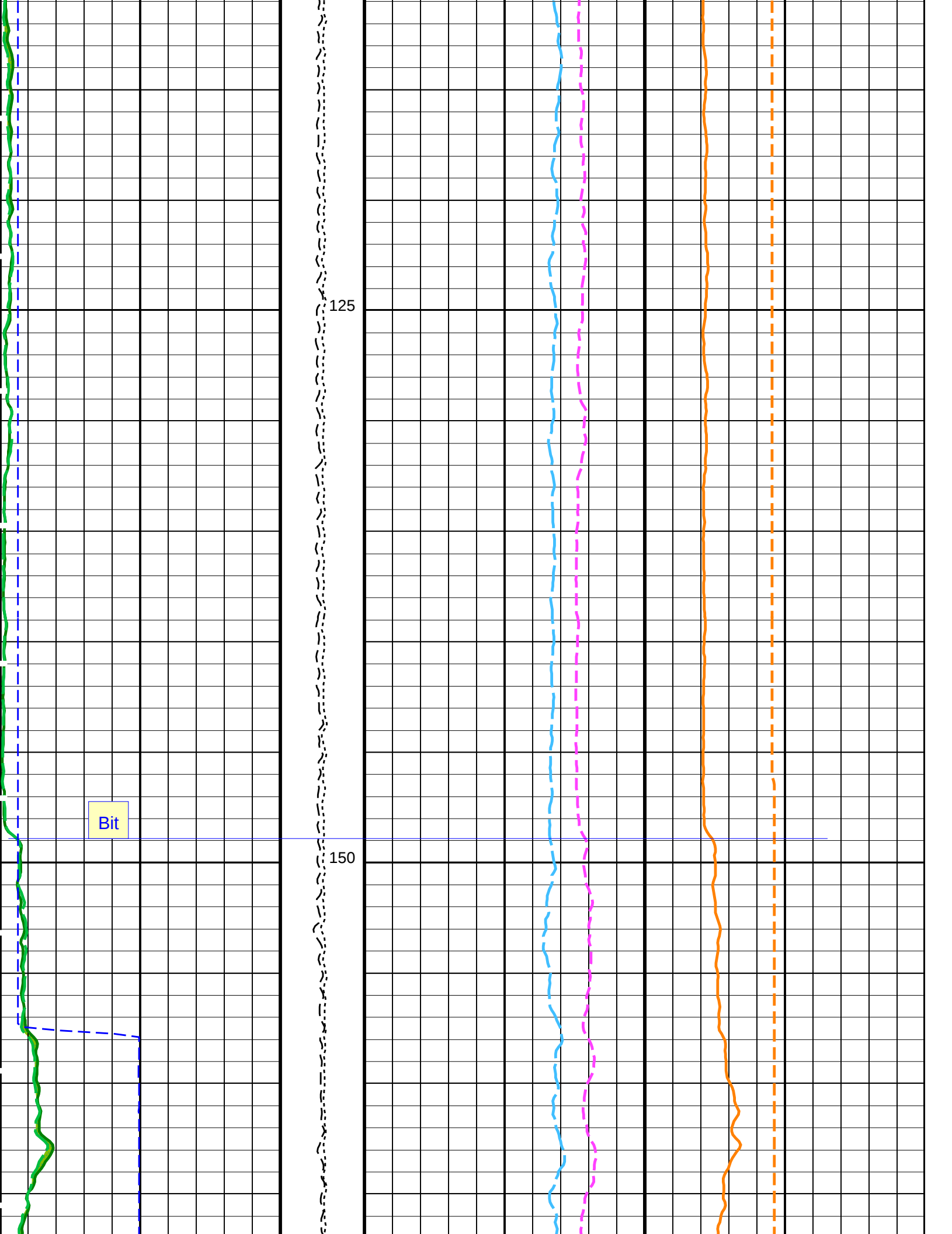
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HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	SKK-5169-EDTCB		

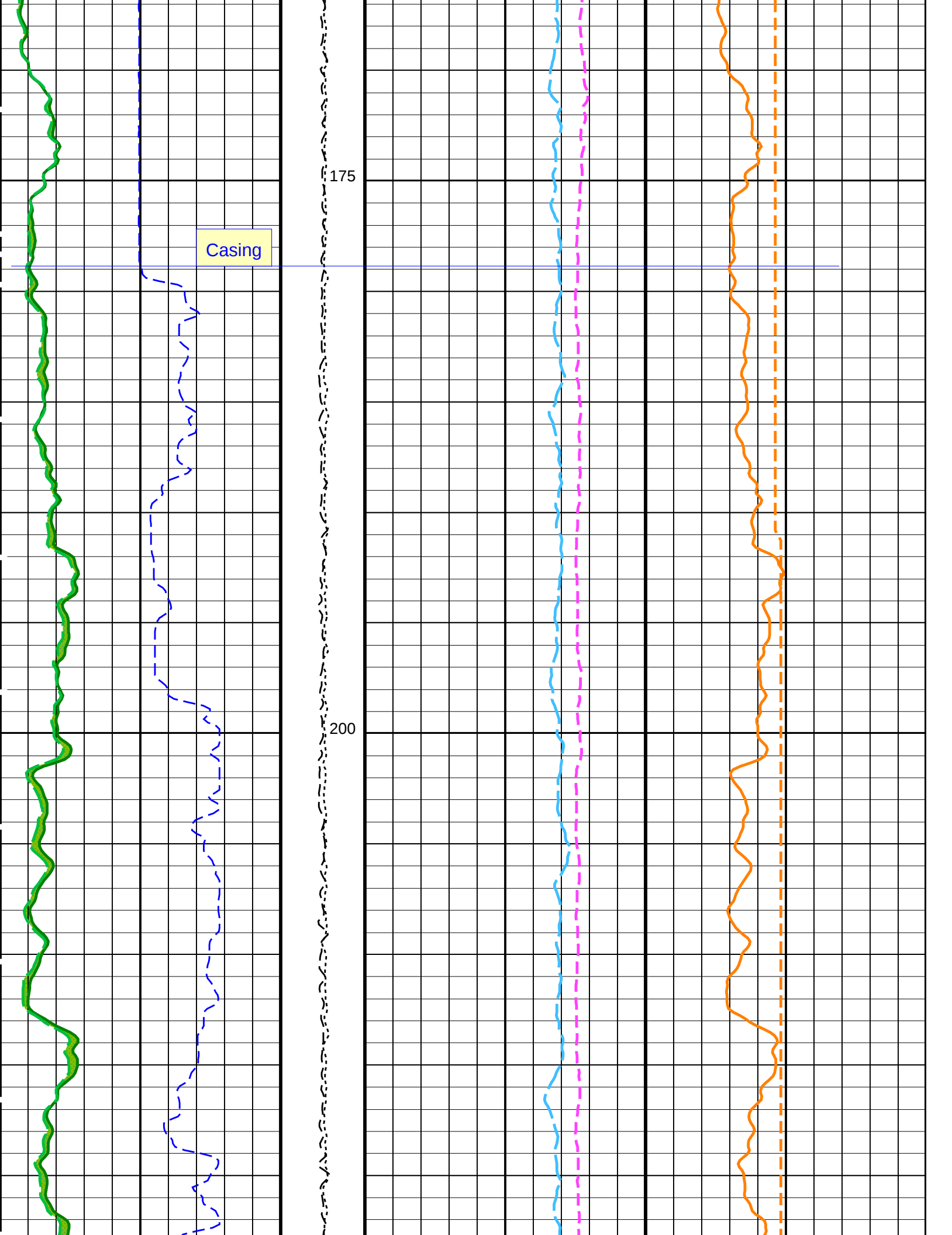
PIP SUMMARY

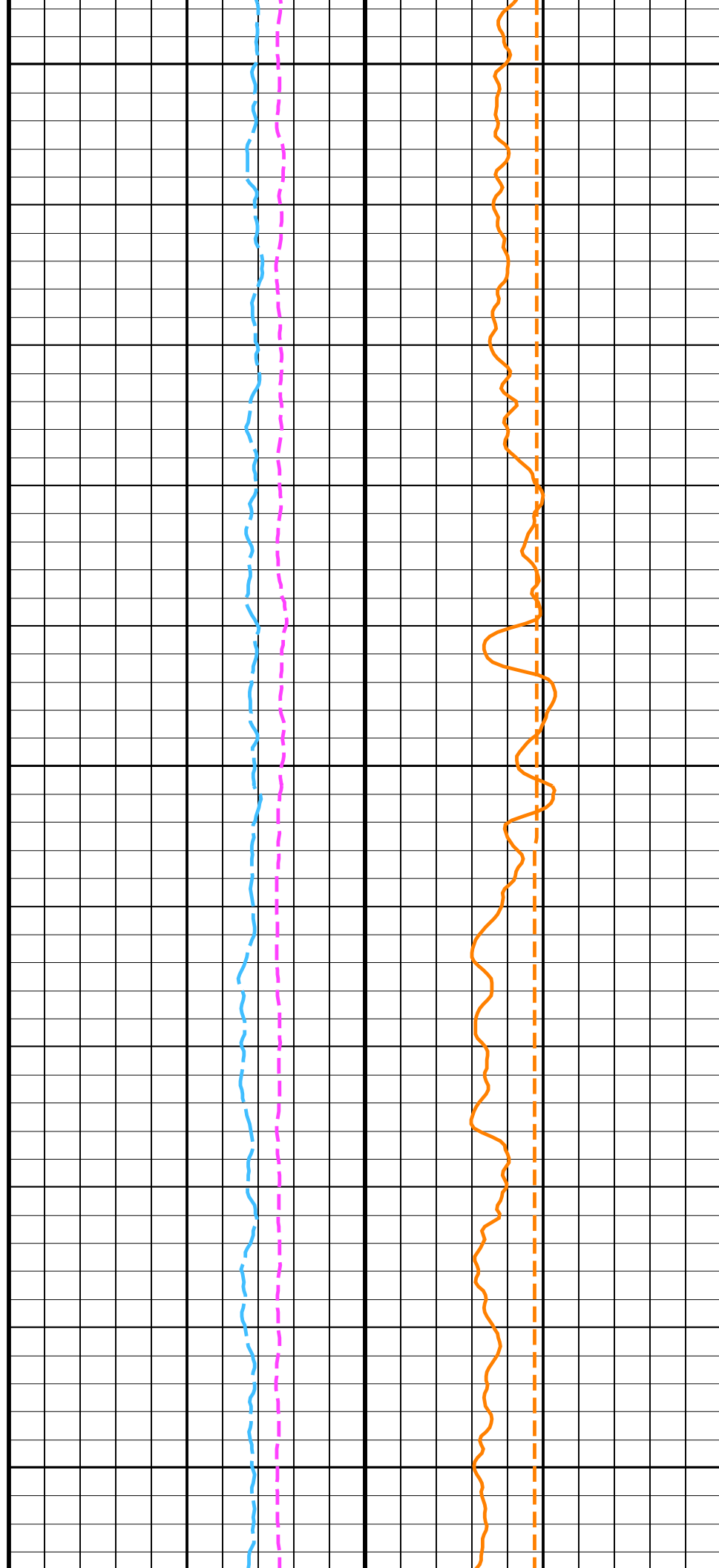
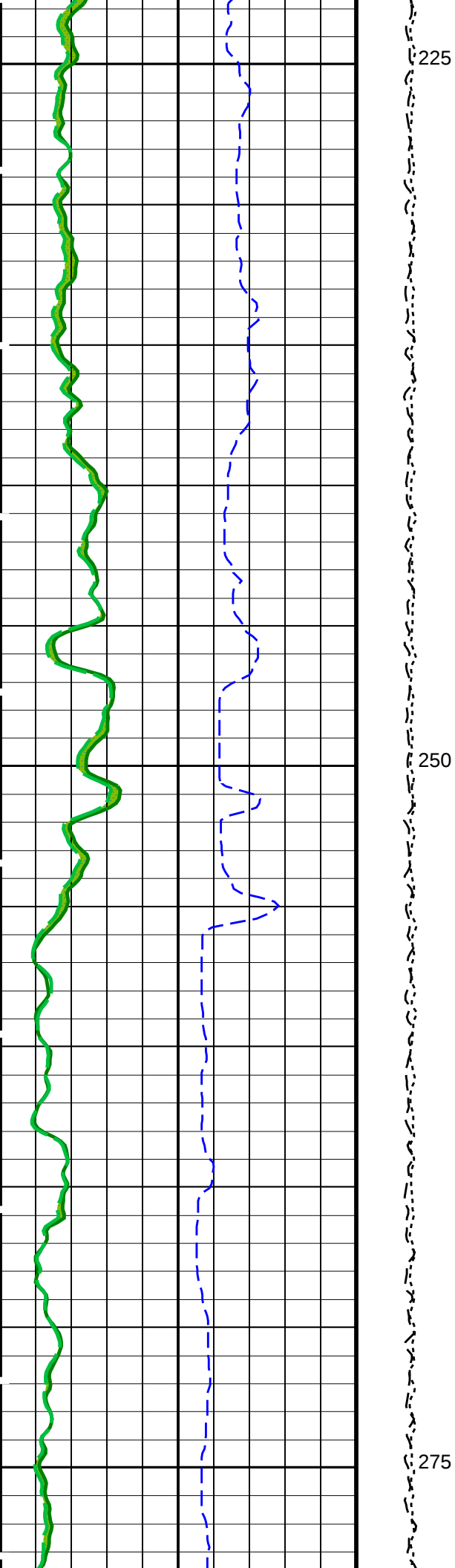


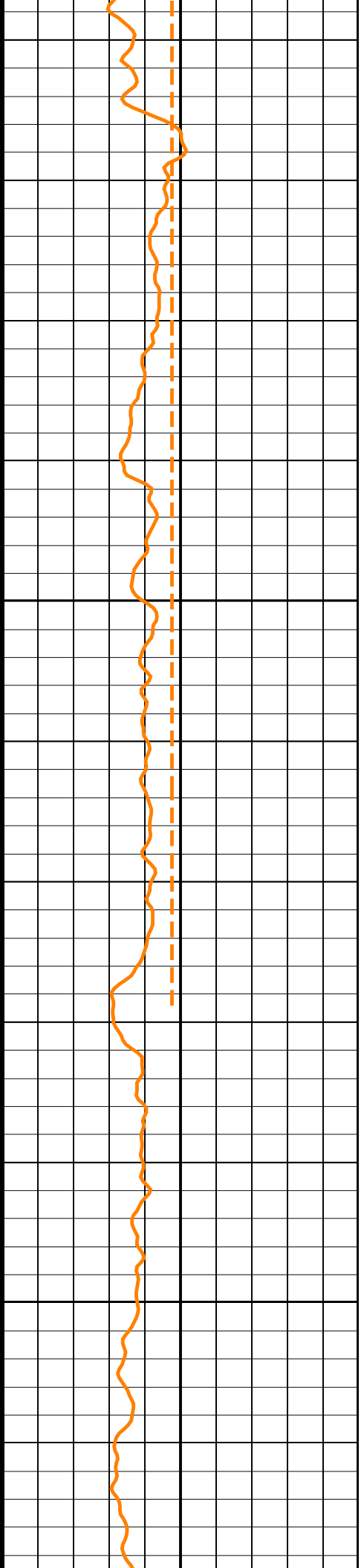
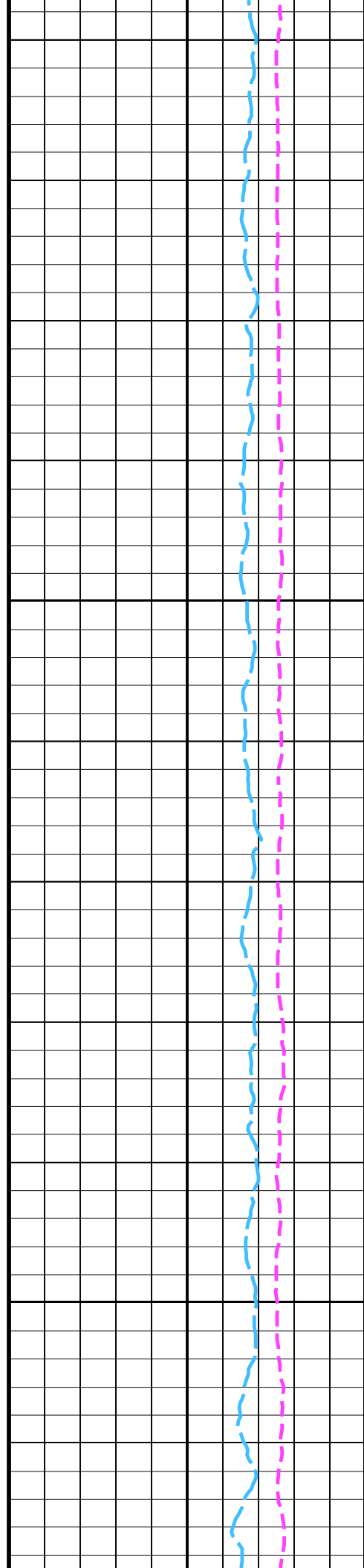
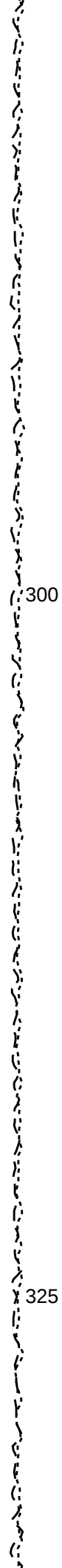
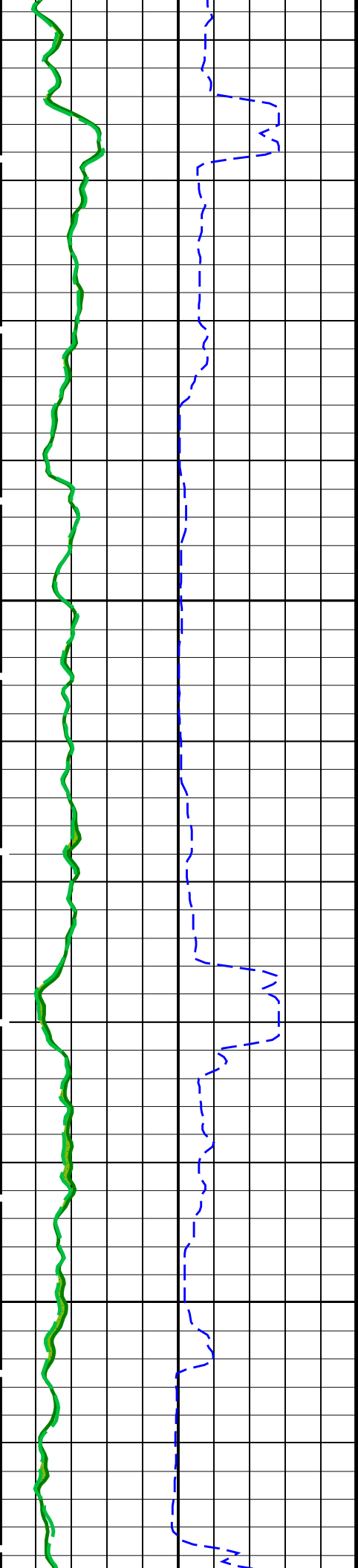


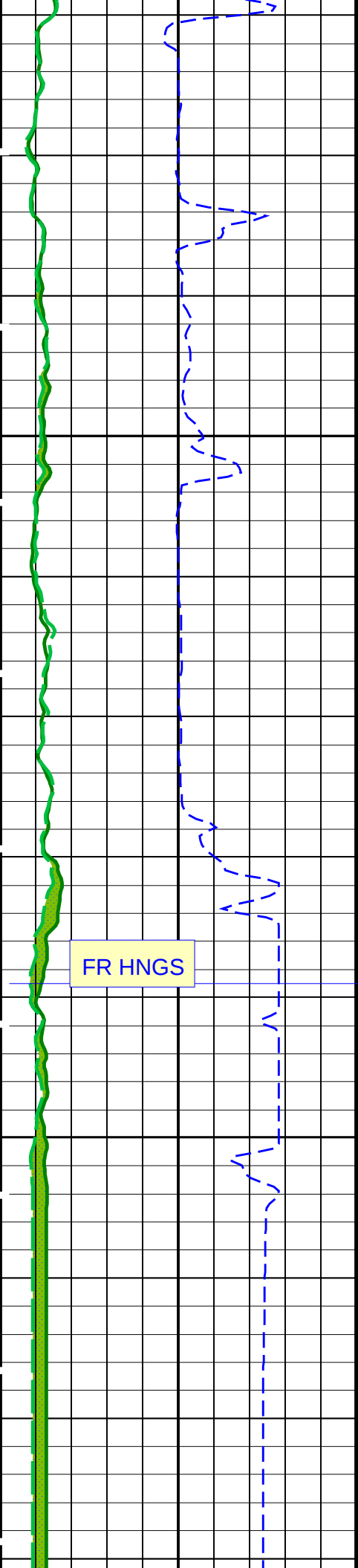






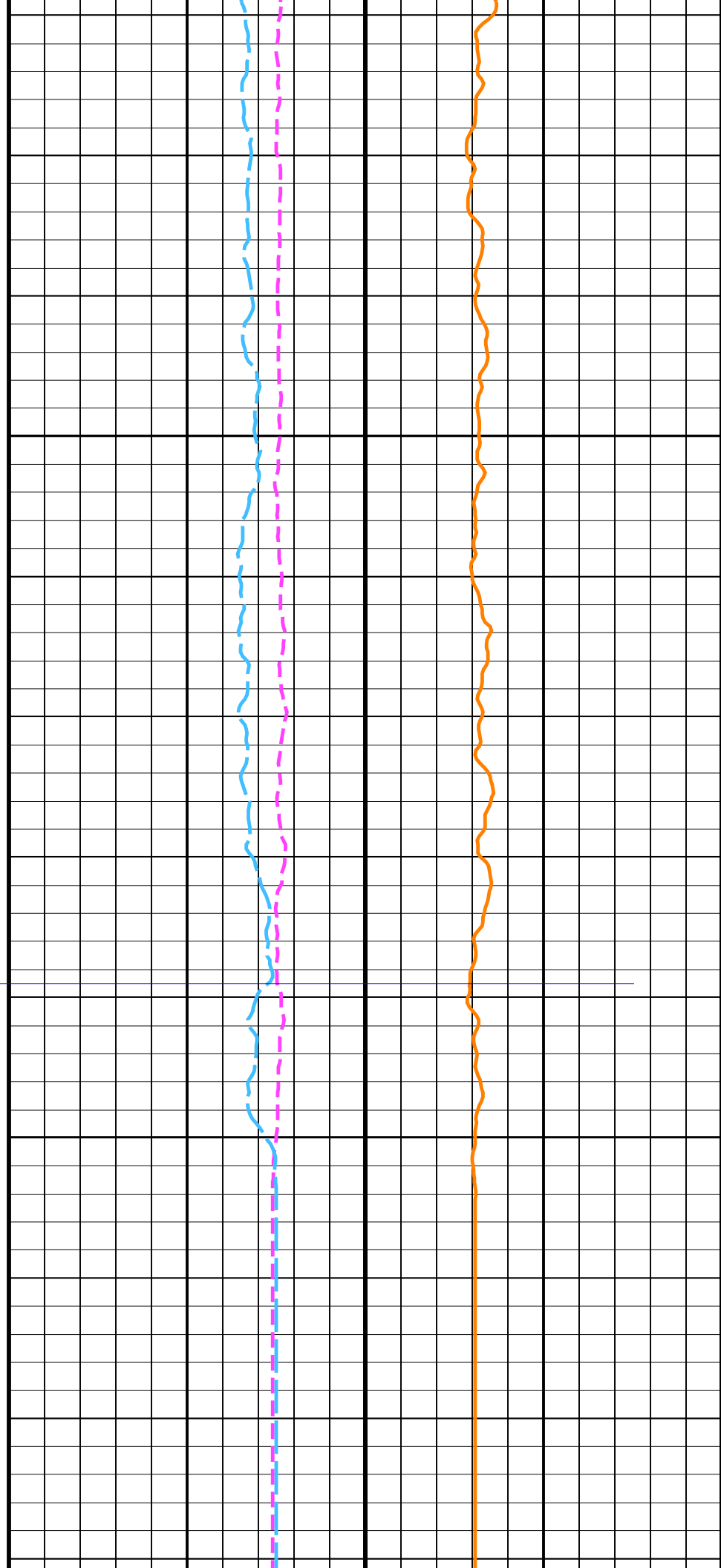


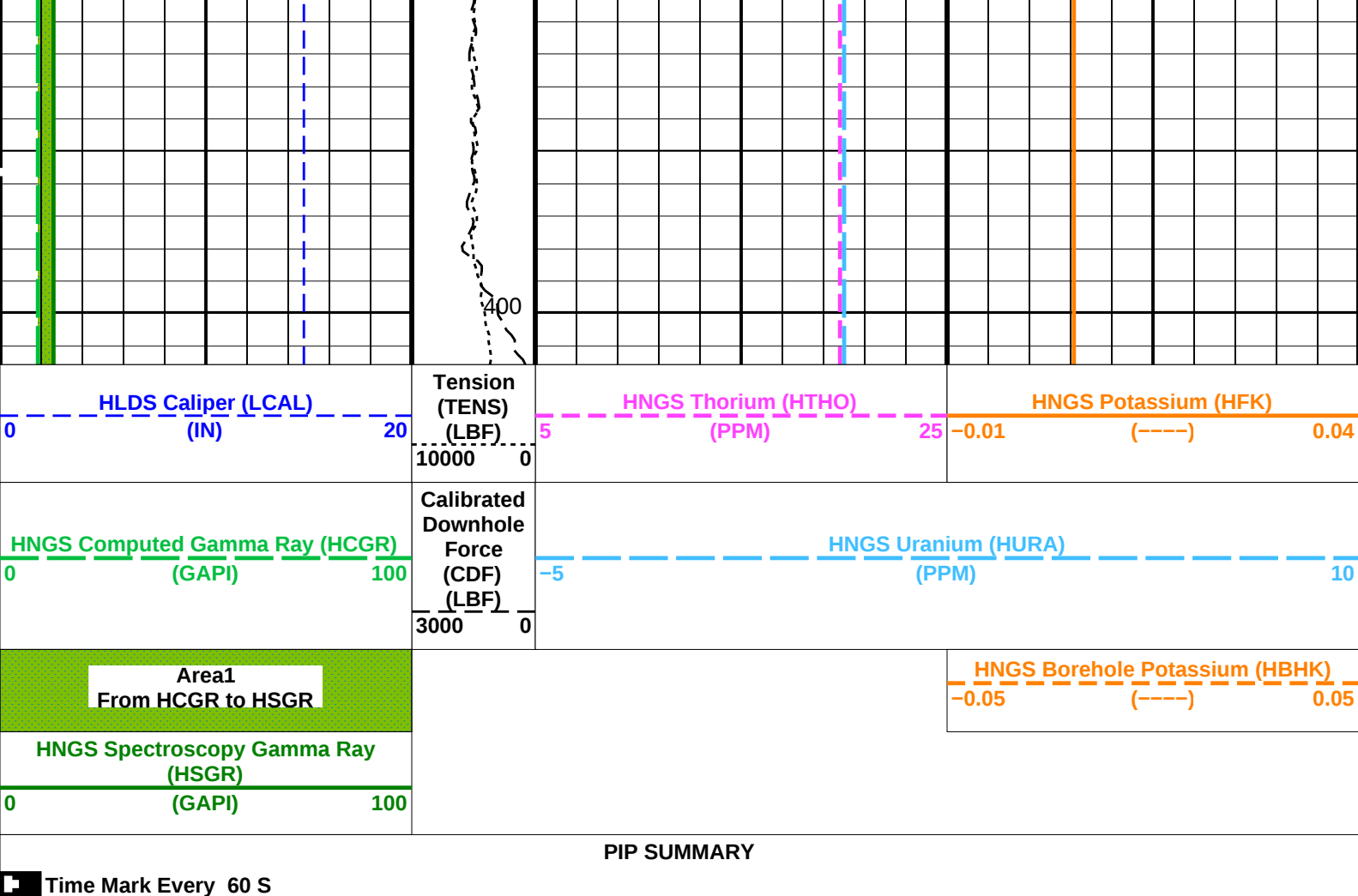




350

375





Parameters

DLIS Name	Description	Value
BHS	HRLT-B: High Resolution Laterolog Array - B	
GCSE	Borehole Status	OPEN
	Generalized Caliper Selection	LCAL
	HNGS-BA: Hostile Natural Gamma Ray Sonde	
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 IN
CSW1	Inner Casing Weight	0 LB/F
CSW2	Outer Casing Weight	0 LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE
GCSE	Generalized Caliper Selection	LCAL
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00748105
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	0.995622
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.01
	EDTC-B: Enhanced DTS Cartridge	
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	LCAL
	System and Miscellaneous	
BS	Bit Size	9.875 IN
DO	Depth Offset for Playback	-3141.5 M
PP	Playback Processing	RECOMPUTE

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

Input DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_010LUP	FN:9	PRODUCER	10-Sep-2014 18:42	3543.3 M	3135.0 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_017PUP	FN:16	PRODUCER	13-Sep-2014 10:10
CUST	MSS_LDEO_HRLA_LDL_017PUC	FN:17	CUSTOMER	13-Sep-2014 10:10



Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M01							
Before: 10-Sep-2014 9:20 After: 10-Sep-2014 12:20							
HRLT M0-M1 Voltage Plus – 0	0	N/A	-319.4	-318.7	0.7089	9.681	UV
HRLT M0-M1 Voltage Plus – 1	0	N/A	-336.8	-330.9	5.861	9.681	UV
HRLT M0-M1 Voltage Plus – 2	0	N/A	-336.7	-333.4	3.287	9.681	UV
HRLT M0-M1 Voltage Plus – 3	0	N/A	-339.8	-337.0	2.806	9.681	UV
HRLT M0-M1 Voltage Plus – 4	0	N/A	-327.2	-325.9	1.309	9.681	UV
HRLT M0-M1 Voltage Plus – 5	0	N/A	-323.0	-322.2	0.8900	9.681	UV
HRLT M0-M1 Voltage Plus – 6	0	N/A	326.4	323.5	-2.852	9.681	UV
HRLT M0-M1 Voltage Plus – 7	0	N/A	-322.7	-322.7	0	9.681	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M12							
Before: 10-Sep-2014 9:20 After: 10-Sep-2014 12:20							
HRLT M1-M2 Voltage Plus – 0	0	N/A	1756	1753	-2.734	53.42	UV
HRLT M1-M2 Voltage Plus – 1	0	N/A	1853	1824	-29.41	53.42	UV
HRLT M1-M2 Voltage Plus – 2	0	N/A	1846	1831	-15.34	53.42	UV
HRLT M1-M2 Voltage Plus – 3	0	N/A	1862	1849	-13.03	53.42	UV
HRLT M1-M2 Voltage Plus – 4	0	N/A	1793	1787	-5.547	53.42	UV
HRLT M1-M2 Voltage Plus – 5	0	N/A	1770	1767	-3.086	53.42	UV
HRLT M1-M2 Voltage Plus – 6	0	N/A	-1805	-1792	12.76	53.42	UV
HRLT M1-M2 Voltage Plus – 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT M23							
Before: 10-Sep-2014 9:20 After: 10-Sep-2014 12:20							
HRLT M2-M3 Voltage Plus – 0	0	N/A	1741	1739	-2.869	53.42	UV
HRLT M2-M3 Voltage Plus – 1	0	N/A	1850	1821	-29.06	53.42	UV
HRLT M2-M3 Voltage Plus – 2	0	N/A	1845	1829	-15.57	53.42	UV
HRLT M2-M3 Voltage Plus – 3	0	N/A	1864	1851	-12.98	53.42	UV
HRLT M2-M3 Voltage Plus – 4	0	N/A	1788	1783	-5.424	53.42	UV
HRLT M2-M3 Voltage Plus – 5	0	N/A	1767	1764	-3.224	53.42	UV
HRLT M2-M3 Voltage Plus – 6	0	N/A	-1791	-1778	12.56	53.42	UV
HRLT M2-M3 Voltage Plus – 7	0	N/A	1781	1781	0	53.42	UV
High Resolution Laterolog Array – B Wellsite Calibration – HRLT V34							
Before: 10-Sep-2014 9:20 After: 10-Sep-2014 12:20							
HRLT A3-A4 Voltage Plus – 0	0	N/A	68510	68370	-138.0	2100	UV
HRLT A3-A4 Voltage Plus – 1	0	N/A	72550	71390	-1162	2100	UV
HRLT A3-A4 Voltage Plus – 2	0	N/A	72650	72030	-616.2	2100	UV

HRLT A3-A4 Voltage Plus -	3	0	N/A	73660	73150	-516.1	2100	UV
HRLT A3-A4 Voltage Plus -	4	0	N/A	70640	70420	-221.3	2100	UV
HRLT A3-A4 Voltage Plus -	5	0	N/A	69850	69690	-153.4	2100	UV
HRLT A3-A4 Voltage Plus -	6	0	N/A	-69240	-68730	507.9	2100	UV
HRLT A3-A4 Voltage Plus -	7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V45

Before: 10-Sep-2014 9:20 After: 10-Sep-2014 12:20

HRLT A4-A5 Voltage Plus -	0	0	N/A	68790	68650	-138.0	2100	UV
HRLT A4-A5 Voltage Plus -	1	0	N/A	72970	71800	-1165	2100	UV
HRLT A4-A5 Voltage Plus -	2	0	N/A	73020	72390	-626.9	2100	UV
HRLT A4-A5 Voltage Plus -	3	0	N/A	74000	73490	-513.1	2100	UV
HRLT A4-A5 Voltage Plus -	4	0	N/A	70940	70710	-234.0	2100	UV
HRLT A4-A5 Voltage Plus -	5	0	N/A	70120	69960	-165.7	2100	UV
HRLT A4-A5 Voltage Plus -	6	0	N/A	-69620	-69110	515.8	2100	UV
HRLT A4-A5 Voltage Plus -	7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT V56

Before: 10-Sep-2014 9:20 After: 10-Sep-2014 12:20

HRLT A5-A6 Voltage Plus -	0	0	N/A	68680	68550	-129.8	2100	UV
HRLT A5-A6 Voltage Plus -	1	0	N/A	72690	71520	-1165	2100	UV
HRLT A5-A6 Voltage Plus -	2	0	N/A	72770	72150	-616.2	2100	UV
HRLT A5-A6 Voltage Plus -	3	0	N/A	73820	73280	-542.7	2100	UV
HRLT A5-A6 Voltage Plus -	4	0	N/A	70800	70580	-227.3	2100	UV
HRLT A5-A6 Voltage Plus -	5	0	N/A	70000	69850	-144.3	2100	UV
HRLT A5-A6 Voltage Plus -	6	0	N/A	-69330	-68850	484.5	2100	UV
HRLT A5-A6 Voltage Plus -	7	0	N/A	70000	70000	0	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VTP

Before: 10-Sep-2014 9:20 After: 10-Sep-2014 12:20

HRLT Torpedo-M0 Voltage -	0	0	N/A	-68350	-68230	128.8	2100	UV
HRLT Torpedo-M0 Voltage -	1	0	N/A	-73010	-71840	1173	2100	UV
HRLT Torpedo-M0 Voltage -	2	0	N/A	-73070	-72440	635.0	2100	UV
HRLT Torpedo-M0 Voltage -	3	0	N/A	-74110	-73570	539.6	2100	UV
HRLT Torpedo-M0 Voltage -	4	0	N/A	-71010	-70770	241.3	2100	UV
HRLT Torpedo-M0 Voltage -	5	0	N/A	-70150	-70010	145.3	2100	UV
HRLT Torpedo-M0 Voltage -	6	0	N/A	69620	69110	-509.6	2100	UV
HRLT Torpedo-M0 Voltage -	7	0	N/A	-70000	-70000	0	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT VBD

Before: 10-Sep-2014 9:20 After: 10-Sep-2014 12:20

HRLT Bridle#9-M0 Voltage -	0	0	N/A	-68350	-68220	128.8	2100	UV
HRLT Bridle#9-M0 Voltage -	1	0	N/A	-73000	-71830	1167	2100	UV
HRLT Bridle#9-M0 Voltage -	2	0	N/A	-73050	-72420	629.6	2100	UV
HRLT Bridle#9-M0 Voltage -	3	0	N/A	-74090	-73560	538.9	2100	UV
HRLT Bridle#9-M0 Voltage -	4	0	N/A	-71000	-70770	234.3	2100	UV
HRLT Bridle#9-M0 Voltage -	5	0	N/A	-70150	-70010	149.0	2100	UV
HRLT Bridle#9-M0 Voltage -	6	0	N/A	69590	69090	-504.6	2100	UV
HRLT Bridle#9-M0 Voltage -	7	0	N/A	-70000	-70000	0	2100	UV

High Resolution Laterolog Array - B Wellsite Calibration - HRLT ISO

Before: 10-Sep-2014 9:20 After: 10-Sep-2014 12:20

HRLT Source Current Plus -	0	0	N/A	285.0	284.5	-0.4594	8.520	UA
HRLT Source Current Plus -	1	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus -	2	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus -	3	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus -	4	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus -	5	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus -	6	0	N/A	281.1	281.1	0	8.520	UA
HRLT Source Current Plus -	7	0	N/A	281.1	281.1	0	8.520	UA

High Resolution Laterolog Array - B Wellsite Calibration - HRLT MV

Before: 10-Sep-2014 9:20 After: 10-Sep-2014 12:20

HRLT Vertical Voltage PI -	0	0	N/A	-321.7	-321.2	0.5491	9.681	UV
HRLT Vertical Voltage PI -	1	0	N/A	-331.3	-326.0	5.293	9.681	UV
HRLT Vertical Voltage PI -	2	0	N/A	-330.2	-327.4	2.825	9.681	UV
HRLT Vertical Voltage PI -	3	0	N/A	-331.3	-328.9	2.372	9.681	UV
HRLT Vertical Voltage PI -	4	0	N/A	-316.1	-315.1	1.024	9.681	UV
HRLT Vertical Voltage PI -	5	0	N/A	-327.2	-326.4	0.7517	9.681	UV
HRLT Vertical Voltage PI -	6	0	N/A	334.3	331.8	-2.528	9.681	UV
HRLT Vertical Voltage PI -	7	0	N/A	-322.7	-322.7	0	9.681	UV

Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement

Master: 16-Jul-2014 4:36 Before: 10-Sep-2014 5:20 After: 10-Sep-2014 12:35

SS Cs Resolution Bkg	9.000	8.061	7.914	7.968	0.05355	1.800	%
LS Cs Resolution Bkg	9.000	8.137	8.183	8.167	-0.01593	1.800	%
LSW1 Background	100.0	69.74	68.65	68.91	0.2574	3.000	CPS
LSW2 Background	100.0	63.61	63.41	63.69	0.2795	3.000	CPS
LSW3 Background	200.0	141.8	140.4	143.1	2.764	6.000	CPS
LSW4 Background	250.0	172.4	171.2	171.1	-0.08644	7.500	CPS
LSW5 Background	600.0	395.0	390.3	391.8	1.503	18.00	CPS
SSW1 Background	100.0	78.54	77.25	77.30	0.05575	3.000	CPS

SSW1 Background	100.0	78.54	77.35	77.29	-0.05575	3.000	CPS
SSW2 Background	200.0	139.1	136.8	137.3	0.5517	6.000	CPS
SSW3 Background	500.0	371.9	369.5	373.3	3.748	15.00	CPS
SSW4 Background	270.0	195.4	195.5	193.5	-1.992	8.100	CPS
SSW5 Background	200.0	142.5	139.3	140.4	1.178	6.000	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Aluminum Measurement

Master: 16-Jul-2014 5:05

LSW1 Aluminum	600.0	508.4	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	733.7	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	883.4	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	447.4	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	407.5	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2389	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6455	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	8951	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3637	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	442.1	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Lithology Measurement

Master: 16-Jul-2014 4:57

LSW1 Iron	400.0	349.8	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	590.1	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	785.3	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	408.9	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	376.5	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1743	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5378	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8163	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3323	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	390.1	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Caliper Calibration

Before: 17-Jul-2014 5:38

HLDS Caliper Small Ring	12.00	N/A	15.84	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	19.69	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 15-Jul-2014 0:16 Before: 10-Sep-2014 5:25 After: 10-Sep-2014 12:33

Na 511 Peak Loc	40.00	39.57	39.68	39.65	-0.03246	1.000	
Na 511 Peak Res	15.50	15.78	15.43	16.28	0.8468	2.000	%
High Voltage	1150	1197	1191	1190	-0.5679	N/A	V
Na 1785 Peak Loc	142.6	142.4	141.1	142.1	0.9476	7.000	
Na 1785 Peak Res	8.500	9.334	8.905	10.17	1.268	2.000	%
Temperature	15.50	37.42	37.89	35.24	-2.653	N/A	DEGC
Na Count Rate	45.00	10.91	10.10	10.29	0.1856	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 15-Jul-2014 0:16 Before: 10-Sep-2014 5:25 After: 10-Sep-2014 12:33

Na 511 Peak Loc	40.00	39.46	39.41	39.85	0.4358	1.000	
Na 511 Peak Res	15.50	16.20	16.64	17.55	0.9115	2.000	%
High Voltage	1150	1129	1124	1126	1.411	N/A	V
Na 1785 Peak Loc	142.6	141.8	140.8	141.3	0.5435	7.000	
Na 1785 Peak Res	8.500	10.06	9.432	11.49	2.058	2.000	%
Temperature	15.50	38.37	37.88	37.14	-0.7413	N/A	DEGC
Na Count Rate	45.00	11.54	10.45	10.53	0.08277	8.000	CPS

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

Master: 15-Jul-2014 0:16 Before: 10-Sep-2014 5:25 After: 10-Sep-2014 12:33

Coincidence Count Rate Ratio	1.000	0.9495	0.9679	0.9719	0.004018	0.05000	
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Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: 10-Sep-2014 5:15

EDTC Z-Axis Acceleration	9.810	N/A	9.751	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: 10-Sep-2014 5:17 After: 10-Sep-2014 12:30

Gamma Ray (Jig – Bkg)	160.2	N/A	160.2	158.0	-2.210	14.56	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	162.7	-2.276	15.00	GAPI

High Resolution Laterolog Array – B / Equipment Identification

Primary Equipment:

HRLT Sonde

HRLS – B

Auxiliary Equipment:

HRLT lower Housing

HRLH – B

HRLT Lower Cartridge

HRLC – B

HRLT upper Housing

HRLH – B

Before: 10-Sep-2014 9:20
After: 10-Sep-2014 12:20

Before: 10-Sep-2014 9:20
After: 10-Sep-2014 12:20

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT M23						
Idx	Phase	HRLT M2–M3 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		1741	1781	2095	1549
	After		1739			
1	Before		1850	1781	2095	1549
	After		1821			
2	Before		1845	1781	2095	1549
	After		1829			
3	Before		1864	1781	2095	1549
	After		1851			
4	Before		1788	1781	2095	1549
	After		1783			
5	Before		1767	1781	2095	1549
	After		1764			
6	Before		-1791	-1781	-1549	-2095
	After		-1778			
7	Before		1781	1781	2095	1549
	After		1781			
		(Minimum) (Nominal) (Maximum)				
Before: 10-Sep-2014 9:20						
After: 10-Sep-2014 12:20						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V34						
Idx	Phase	HRLT A3–A4 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68510	70000	82360	60900
	After		68370			
1	Before		72550	70000	82360	60900
	After		71390			
2	Before		72650	70000	82360	60900
	After		72030			
3	Before		73660	70000	82360	60900
	After		73150			
4	Before		70640	70000	82360	60900
	After		70420			
5	Before		69850	70000	82360	60900
	After		69690			
6	Before		-69240	-70000	-60900	-82360
	After		-68730			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				
Before: 10-Sep-2014 9:20						
After: 10-Sep-2014 12:20						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V45						
Idx	Phase	HRLT A4–A5 Voltage Plus UV	Value	Nominal	Maximum	Minimum

Idx	Phase	HRLT A5-A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68790	70000	82360	60900
	After		68650			
1	Before		72970	70000	82360	60900
	After		71800			
2	Before		73020	70000	82360	60900
	After		72390			
3	Before		74000	70000	82360	60900
	After		73490			
4	Before		70940	70000	82360	60900
	After		70710			
5	Before		70120	70000	82360	60900
	After		69960			
6	Before		-69620	-70000	-60900	-82360
	After		-69110			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				
Before: 10-Sep-2014 9:20						
After: 10-Sep-2014 12:20						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT V56						
Idx	Phase	HRLT A5-A6 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		68680	70000	82360	60900
	After		68550			
1	Before		72690	70000	82360	60900
	After		71520			
2	Before		72770	70000	82360	60900
	After		72150			
3	Before		73820	70000	82360	60900
	After		73280			
4	Before		70800	70000	82360	60900
	After		70580			
5	Before		70000	70000	82360	60900
	After		69850			
6	Before		-69330	-70000	-60900	-82360
	After		-68850			
7	Before		70000	70000	82360	60900
	After		70000			
		(Minimum) (Nominal) (Maximum)				
Before: 10-Sep-2014 9:20						
After: 10-Sep-2014 12:20						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT VTP						
Idx	Phase	HRLT Torpedo-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-68350	-70000	-60900	-82360
	After		-68230			

1	Before		-73010	-70000	-60900	-82360
	After		-71840			
2	Before		-73070	-70000	-60900	-82360
	After		-72440			
3	Before		-74110	-70000	-60900	-82360
	After		-73570			
4	Before		-71010	-70000	-60900	-82360
	After		-70770			
5	Before		-70150	-70000	-60900	-82360
	After		-70010			
6	Before		69620	70000	82360	60900
	After		69110			
7	Before		-70000	-70000	-60900	-82360
	After		-70000			
(Minimum) (Nominal) (Maximum)						
Before: 10-Sep-2014 9:20						
After: 10-Sep-2014 12:20						

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT VBD							
Idx	Phase	HRLT Bridle#9-M0 Voltage Plus UV	Value	Nominal	Maximum	Minimum	
0	Before		-68350	-70000	-60900	-82360	
	After		-68220				
1	Before		-73000	-70000	-60900	-82360	
	After		-71830				
2	Before		-73050	-70000	-60900	-82360	
	After		-72420				
3	Before		-74090	-70000	-60900	-82360	
	After		-73560				
4	Before		-71000	-70000	-60900	-82360	
	After		-70770				
5	Before		-70150	-70000	-60900	-82360	
	After		-70010				
6	Before		69590	70000	82360	60900	
	After		69090				
7	Before		-70000	-70000	-60900	-82360	
	After		-70000				
(Minimum) (Nominal) (Maximum)							
Before: 10-Sep-2014 9:20							
After: 10-Sep-2014 12:20							

High Resolution Laterolog Array – B Wellsite Calibration							
HRLT ISO							
Idx	Phase	HRLT Source Current Plus UA	Value	Nominal	Maximum	Minimum	
0	Before		285.0	284.0	334.1	247.0	
	After		284.5				
1	Before		281.1	281.1	330.7	244.4	
	After		281.1				

2	Before		281.1	281.1	330.7	244.4
	After		281.1			
3	Before		281.1	281.1	330.7	244.4
	After		281.1			
4	Before		281.1	281.1	330.7	244.4
	After		281.1			
5	Before		281.1	281.1	330.7	244.4
	After		281.1			
6	Before		281.1	281.1	330.7	244.4
	After		281.1			
7	Before		281.1	281.1	330.7	244.4
	After		281.1			
(Minimum) (Nominal) (Maximum)						
Before: 10-Sep-2014 9:20						
After: 10-Sep-2014 12:20						

High Resolution Laterolog Array – B Wellsite Calibration						
HRLT MV						
Idx	Phase	HRLT Vertical Voltage Plus UV	Value	Nominal	Maximum	Minimum
0	Before		-321.7	-322.7	-280.7	-379.7
	After		-321.2			
1	Before		-331.3	-322.7	-280.7	-379.7
	After		-326.0			
2	Before		-330.2	-322.7	-280.7	-379.7
	After		-327.4			
3	Before		-331.3	-322.7	-280.7	-379.7
	After		-328.9			
4	Before		-316.1	-322.7	-280.7	-379.7
	After		-315.1			
5	Before		-327.2	-322.7	-280.7	-379.7
	After		-326.4			
6	Before		334.3	322.7	379.7	280.7
	After		331.8			
7	Before		-322.7	-322.7	-280.7	-379.7
	After		-322.7			
(Minimum) (Nominal) (Maximum)						
Before: 10-Sep-2014 9:20						
After: 10-Sep-2014 12:20						

Hostile Litho-Density Sonde / Equipment Identification

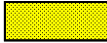
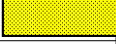
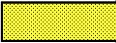
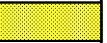
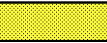
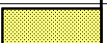
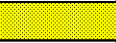
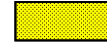
Primary Equipment:

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		8.061	Master		8.137	Master		69.74
Before		7.914	Before		8.183	Before		68.65
After		7.968	After		8.167	After		68.91
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		63.61	Master		141.8	Master		172.4
Before		63.41	Before		140.4	Before		171.2
After		63.69	After		143.1	After		171.1
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		395.0	Master		78.54	Master		139.1
Before		390.3	Before		77.35	Before		136.8
After		391.8	After		77.29	After		137.3
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		371.9	Master		195.4	Master		142.5
Before		369.5	Before		195.5	Before		139.3
After		373.3	After		193.5	After		140.4
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: 16-Jul-2014 4:36			Before: 10-Sep-2014 5:20			After: 10-Sep-2014 12:35		

Litho-Density Spectroscopy Cartridge – B / Equipment Identification

Primary Equipment:
LDSC Cartridge

LDSC – B 521

Auxiliary Equipment:
LDSC Housing

LDSH – A 319

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:
HNGC Cartridge

HNGC – B 300

Auxiliary Equipment:
HNGC Housing

HNGH – A 115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:
HNGS Sonde

HNGS – BA 194

Auxiliary Equipment:
HNGS Sonde Housing
Gamma Source Radioactive

HNSH – BA 205
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		39.57	Master		15.78	Master		1197
Before		39.68	Before		15.43	Before		1191

After		39.65	After		16.28	After		1190
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		142.4	Master		9.334	Master		37.42
Before		141.1	Before		8.905	Before		37.89
After		142.1	After		10.17	After		35.24
135.0 (Minimum)	142.6 (Nominal)	150.3 (Maximum)	7.000 (Minimum)	8.500 (Nominal)	11.00 (Maximum)	-28.89 (Minimum)	15.50 (Nominal)	60.00 (Maximum)
Phase	Na Count Rate CPS	Value						
Master		10.91						
Before		10.10						
After		10.29						
10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 15-Jul-2014 0:16			Before: 10-Sep-2014 5:25			After: 10-Sep-2014 12:33		

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		39.46	Master		16.20	Master		1129
Before		39.41	Before		16.64	Before		1124
After		39.85	After		17.55	After		1126
37.50 (Minimum)	40.00 (Nominal)	43.50 (Maximum)	12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		141.8	Master		10.06	Master		38.37
Before		140.8	Before		9.432	Before		37.88
After		141.3	After	EXCEEDS LIMIT	11.49	After		37.14
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		11.54						
Before		10.45						
After		10.53						
10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 15-Jul-2014 0:16			Before: 10-Sep-2014 5:25			After: 10-Sep-2014 12:33		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master	EXCEEDS LIMIT	0.9495
Before		0.9679
After		0.9719
0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 15-Jul-2014 0:16		
Before: 10-Sep-2014 5:25		
After: 10-Sep-2014 12:33		

Enhanced DTS Cartridge / Equipment Identification

Primary Equipment:

EDTC Gamma Ray Detector
Enhanced DTS Cartridge

EDTG - A/B
EDTC - B

8305
8317

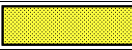
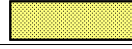
Auxiliary Equipment:

EDTC Housing

EDTH - B

8303

Enhanced DTS Cartridge Wellsite Calibration		
EDTC Accelerometer Calibration		
Phase	EDTC Z-Axis Acceleration M/S2	Value
Before		9.751
9.610 (Minimum)	9.810 (Nominal)	10.01 (Maximum)
Before: 10-Sep-2014 5:15		

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			4.601	Before			160.2	Before			165.0					
After			6.182	After			158.0	After			162.7					
0 (Minimum)			30.00 (Nominal)	120.0 (Maximum)			145.6 (Minimum)			160.2 (Nominal)	174.8 (Maximum)	150.0 (Minimum)			165.0 (Nominal)	180.0 (Maximum)
Before: 10-Sep-2014 5:17							After: 10-Sep-2014 12:30									

Company: **Lamont Doherty Earth Observatory**



Well: **Expedition 352, Site U1439C**

Field: **IBM–3 Forearc**

Rig: **JOIDES Resolution**

Country:

HNGS Spectral GR