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OTHER SERVICES1
 OS1: FMS/DSI
 OS2: MSS
 OS3: HRLA/HLDS/APS/HNGS
 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
 Sea floor depth reference used for this presented log. Original log files recorded were taken with depth reference at drill floor.
 Borehole correction utilizing bit size (BS) as requested.
 Original log files acquired for barite 11.5 lb/gal mud but later reprocessed for sea water 1.03 g/cc and no barite per client request due to mud absent.
 2 MCD (mechanical Caliper Device) centralizers run with HRLA. 2 knuckle joints and 1 thru wired extension separates the centralized HRLA from the eccentered HLDS/APS.
 Active Heave Compensator in use for all open hole logs.
 The RCB bit was dropped at the bottom of the hole prior to logging.
 Calibration out of date warning due to Summary Listing created later.
 Heavy mud was pumped into hole but due to hole washouts, logging tools never immersed in heavy mud as logging tools bridged out before getting into the heavy mud volume.

REMARKS: RUN NUMBER 2

RUN 1		
SERVICE ORDER #:		
PROGRAM VERSION:	19C0-187	
FLUID LEVEL:		
LOGGED INTERVAL	START	STOP

RUN 2		
SERVICE ORDER #:		
PROGRAM VERSION:		
FLUID LEVEL:		
LOGGED INTERVAL	START	STOP





EQUIPMENT DESCRIPTION

RUN 1

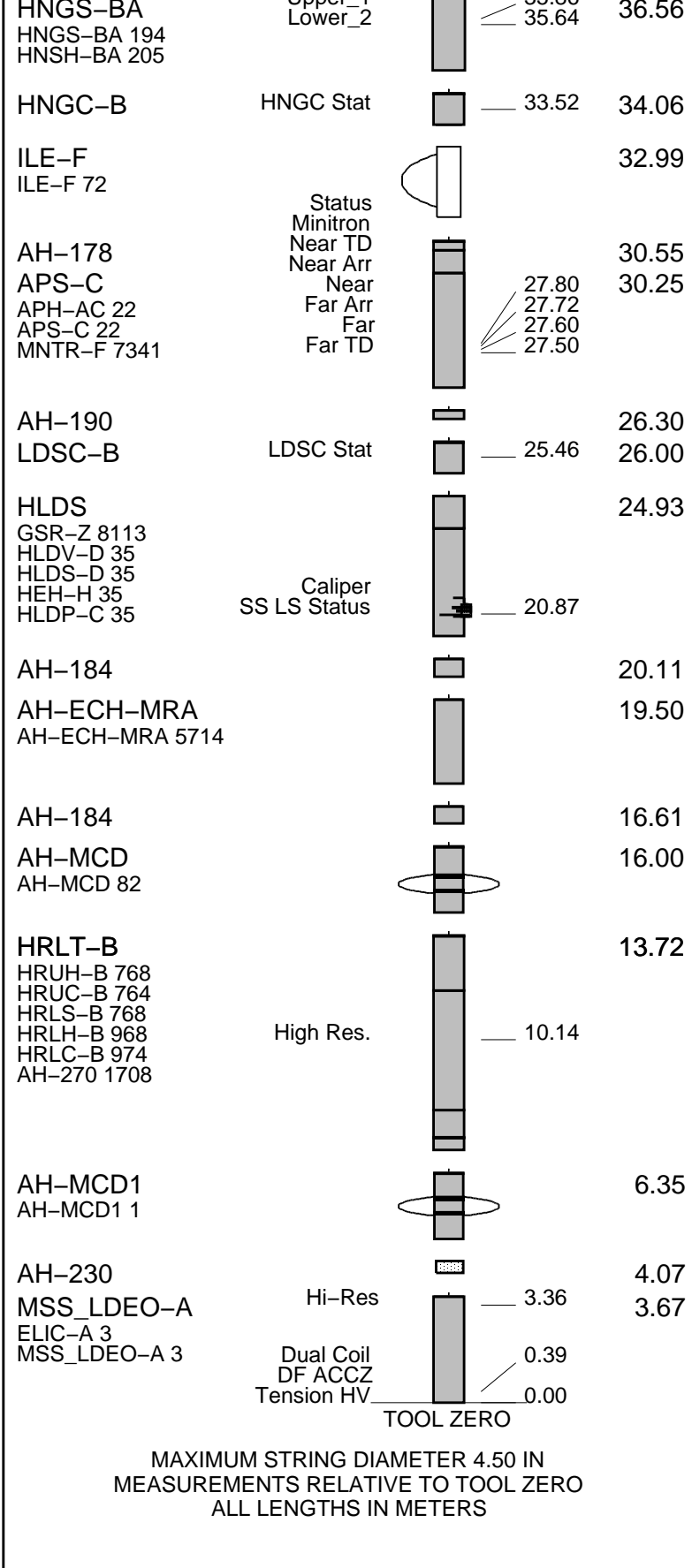
SURFACE EQUIPMENT

SFT-281 1
 SFT-178 1
 GSR-U 616008
 WITM (EDTS)-A

DOWNHOLE EQUIPMENT

LEH-MT 101	MDSB_EDTC		38.54	39.93
	Mud Tempe		37.47	
AH-369	CTEM		36.90	38.97
EDTC-B	Gamma Ray		38.54	
EDTH-B 8303	EFTB DIAG		36.56	
EDTC-B 8317	TelStatus		35.86	
	EDTCB Ele			
	Inner 1			

RUN 2



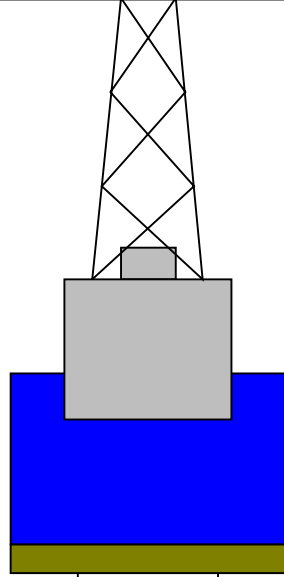
Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

-425
-425

-4240



4.1



0 4.1
149.6 9.875

1008.8

Sea Floor
Open Hole

Total Depth

Input DLIS Files

DEFAULT MSS_LDEO_HRLA_LDL_028PUP FN:50 PRODUCER 16-Feb-2014 05:20 4725.2 M 4201.1 M

Output DLIS Files

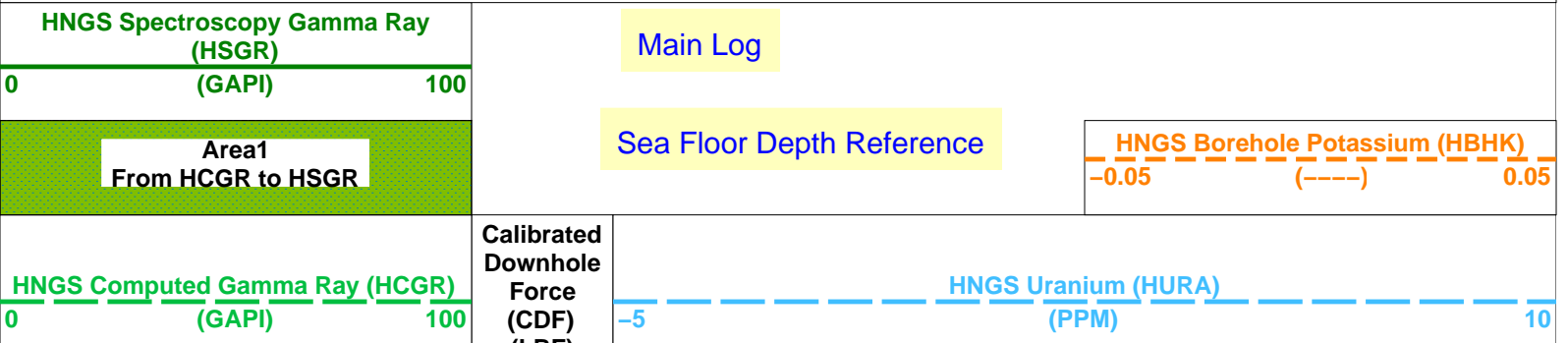
DEFAULT MSS_LDEO_HRLA_LDL_046PUP FN:66 PRODUCER 01-Mar-2014 12:26 473.2 M -50.9 M

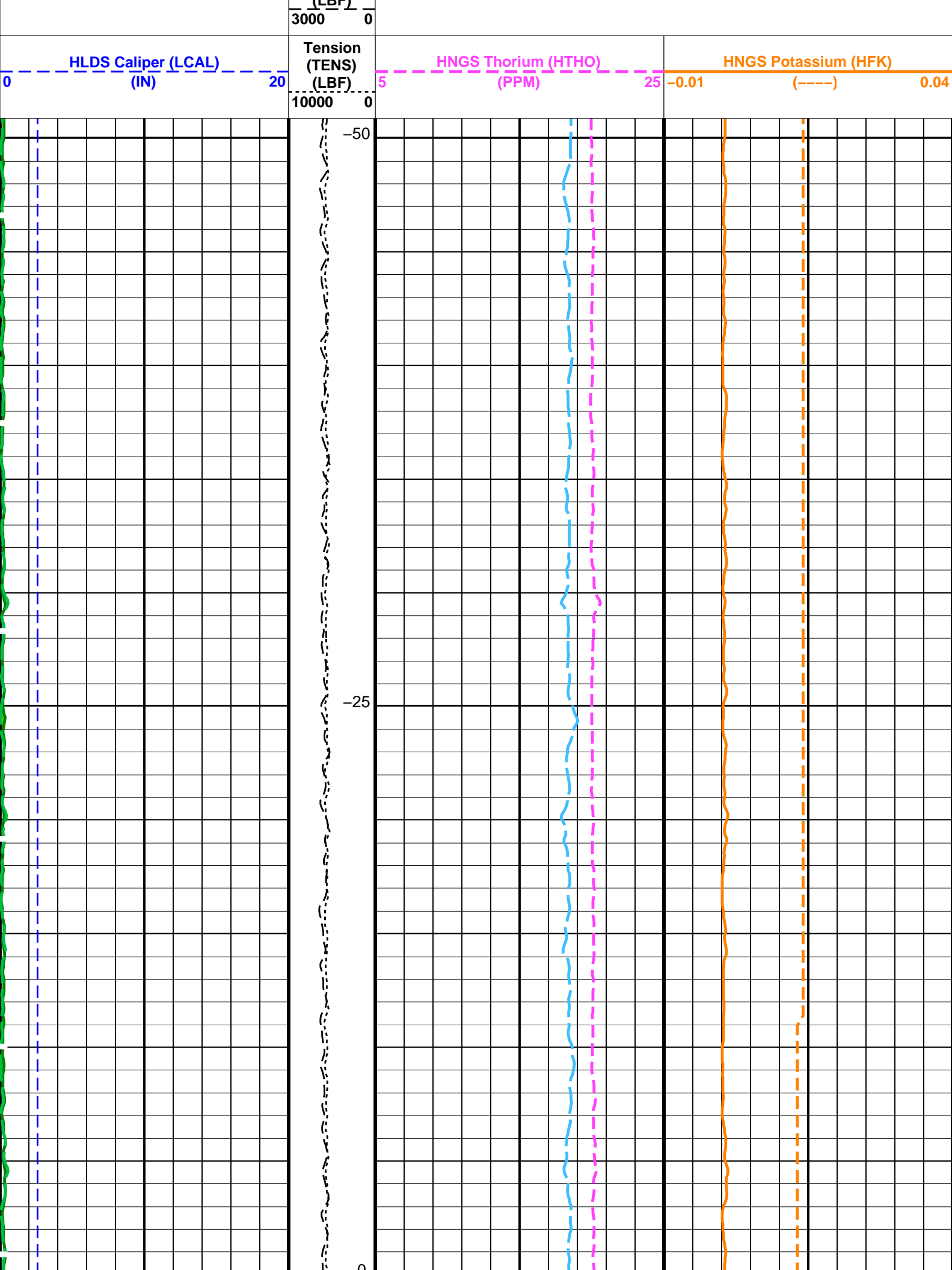
OP System Version: 19C0-187

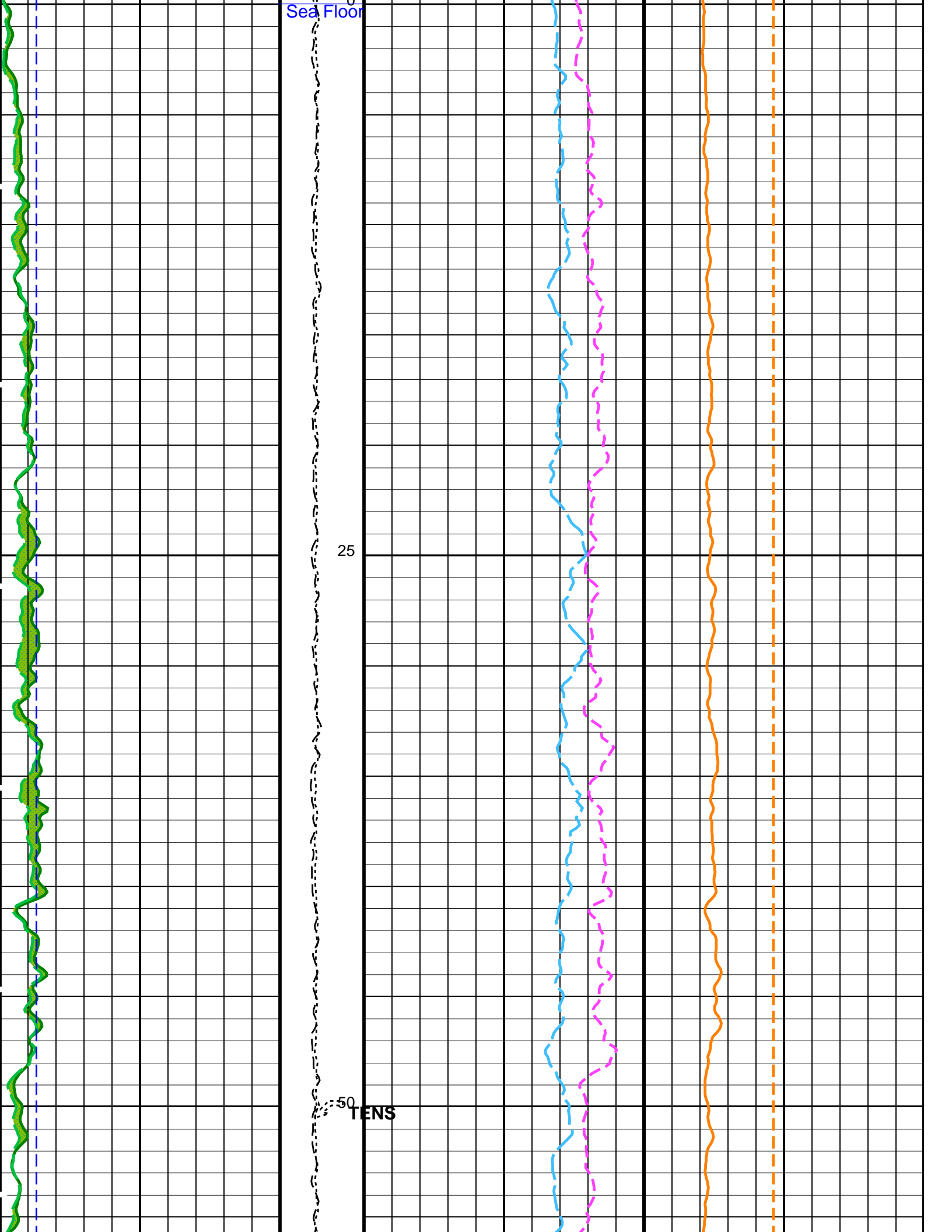
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

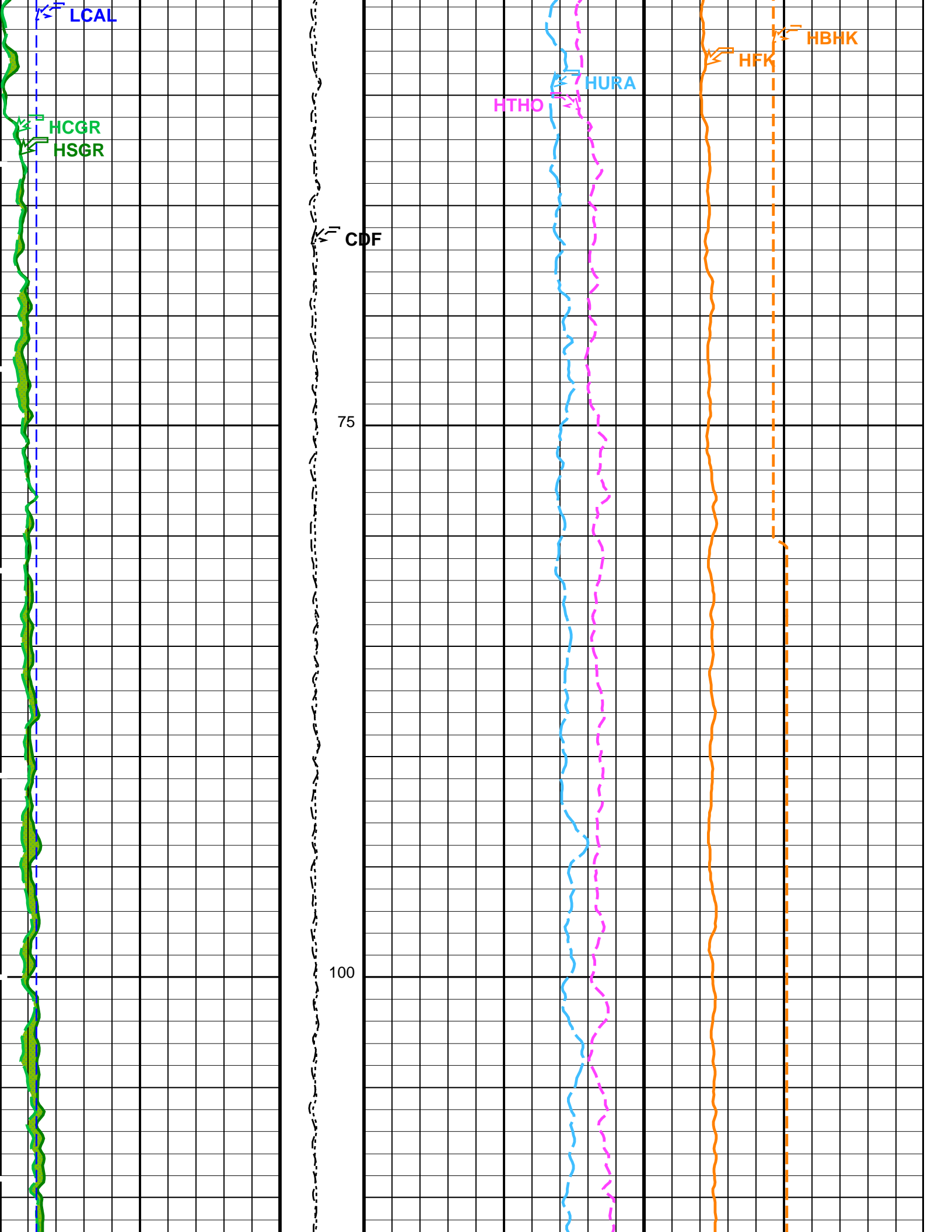
PIP SUMMARY

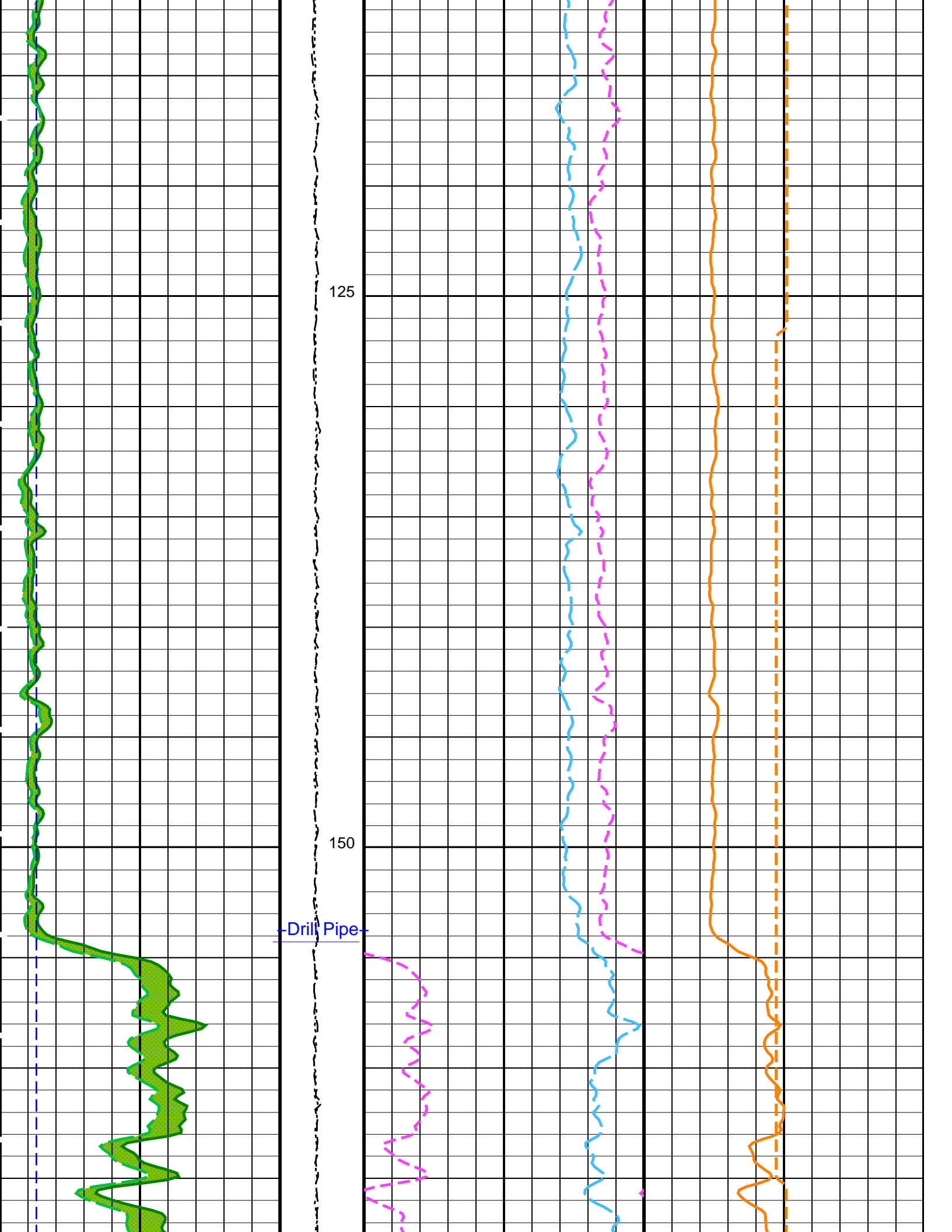
Time Mark Every 60 S

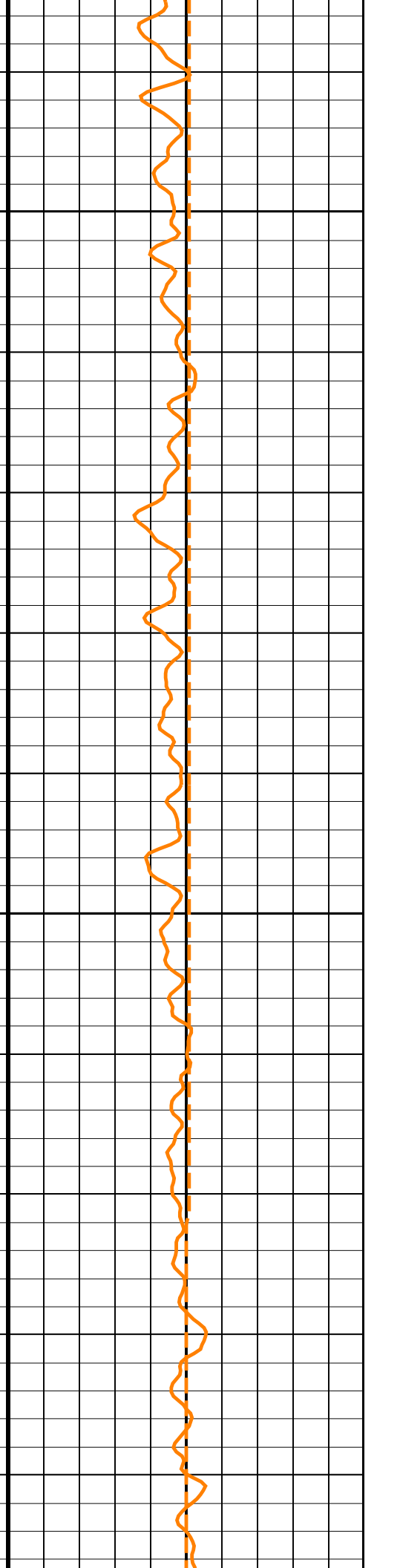
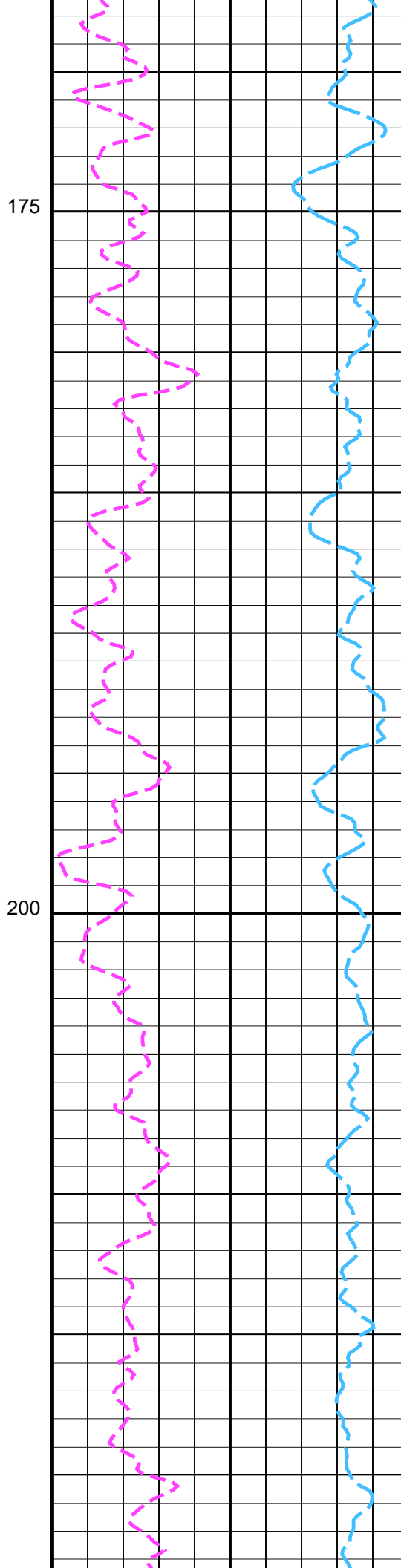
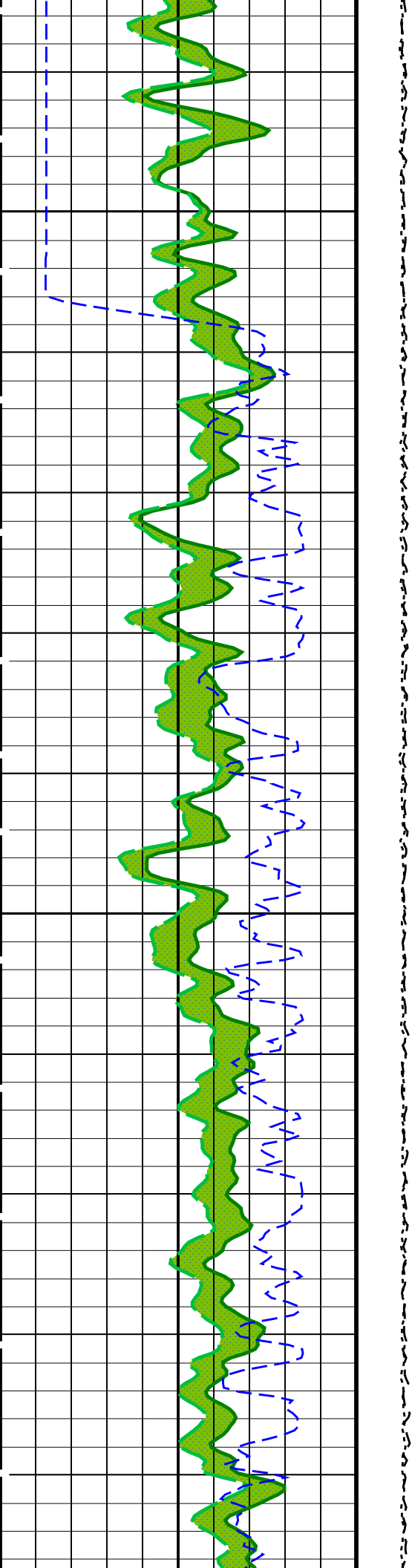


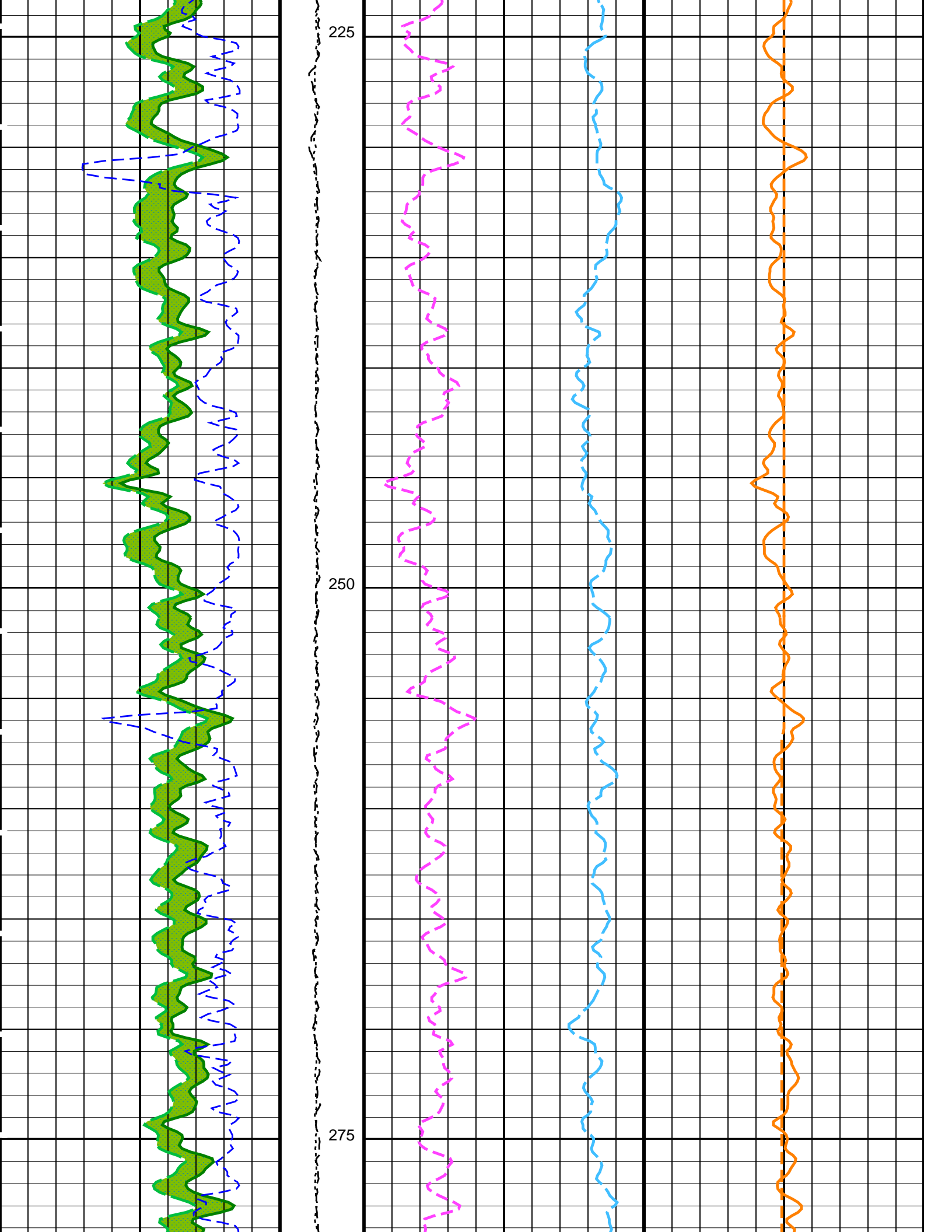


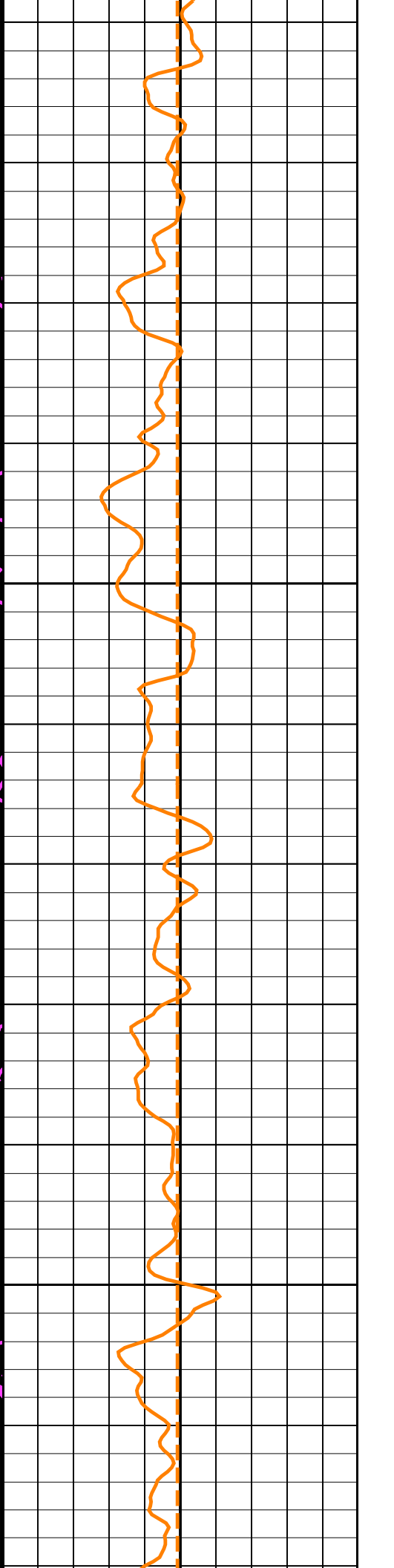
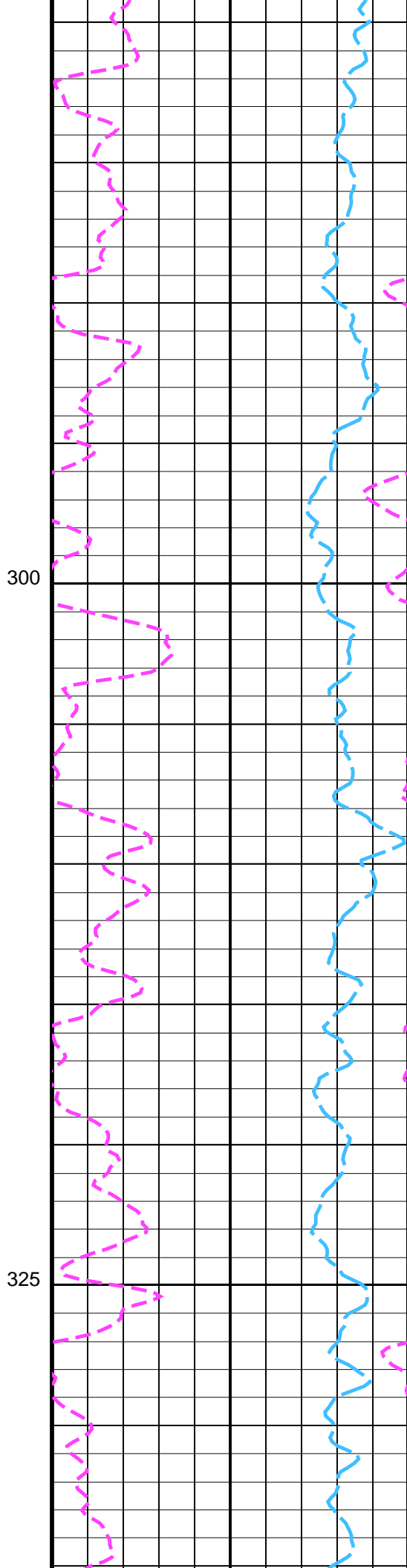
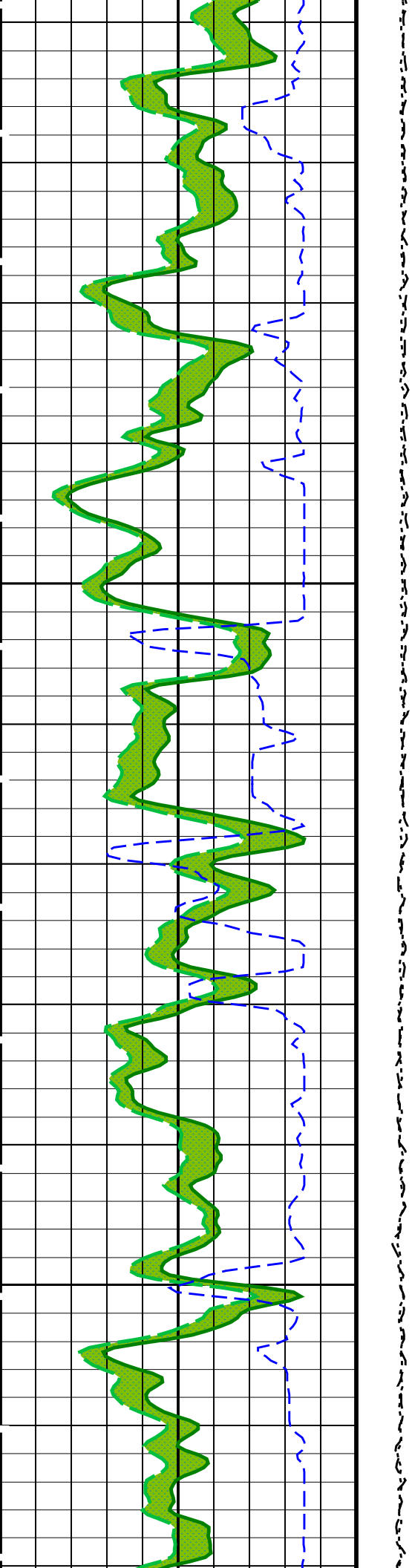


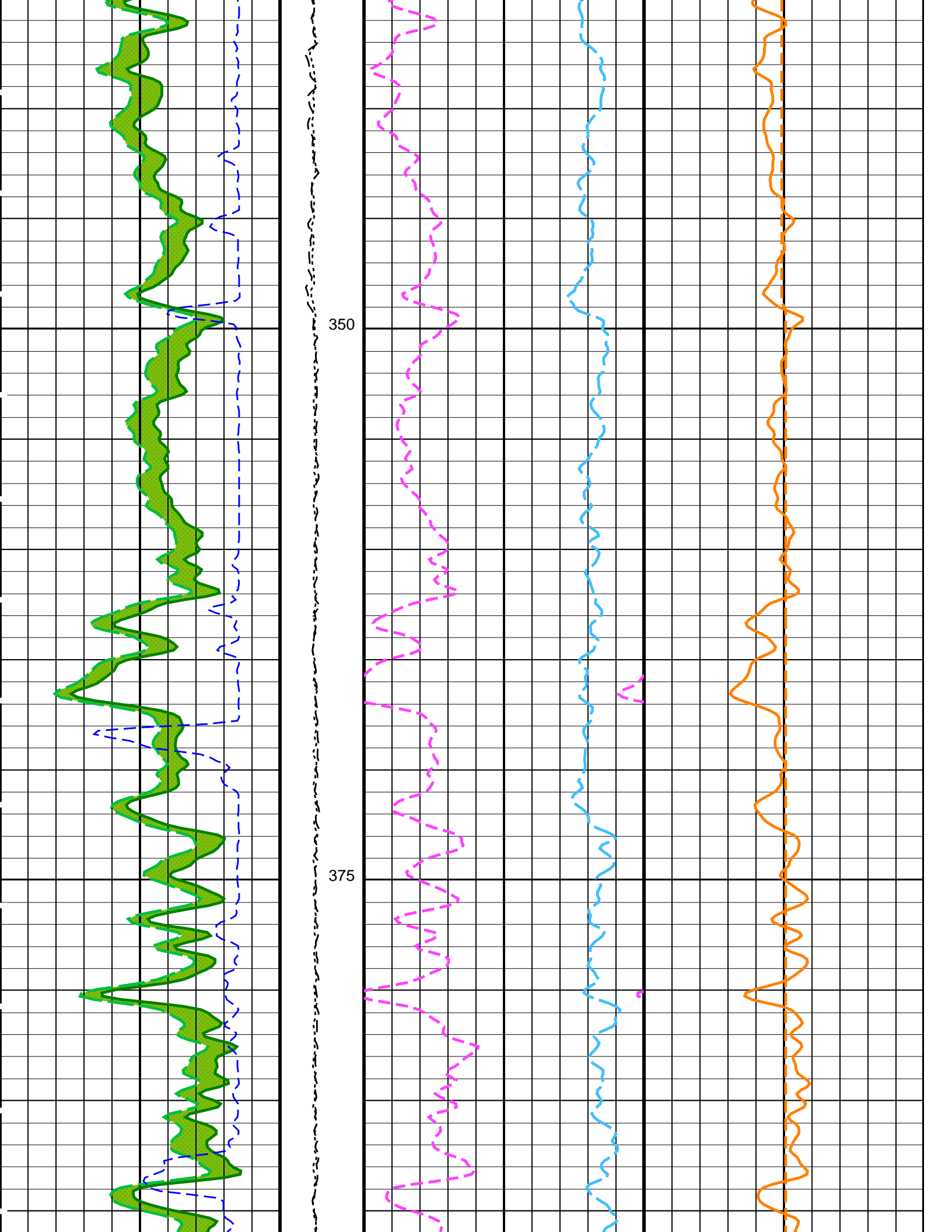


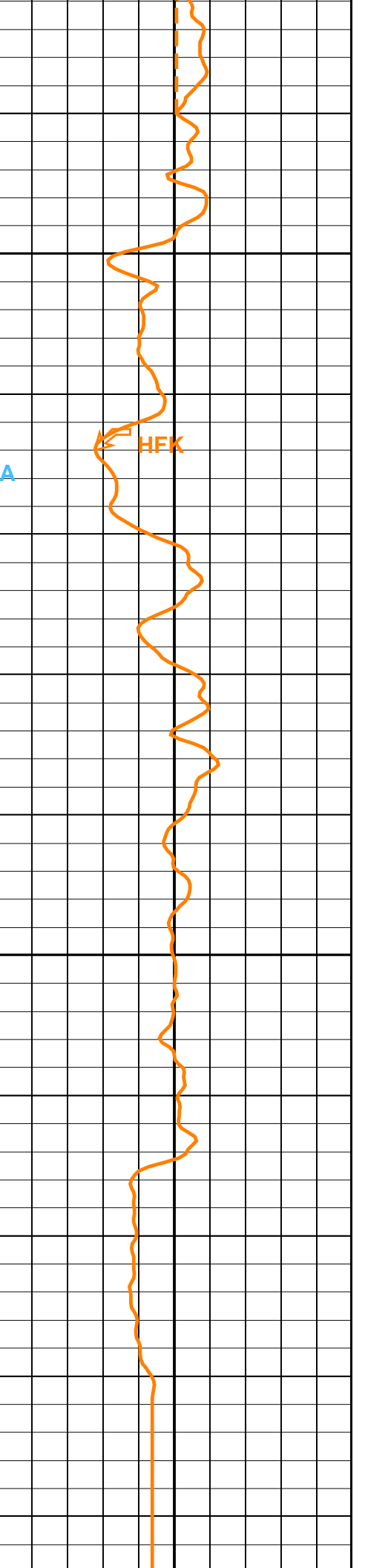
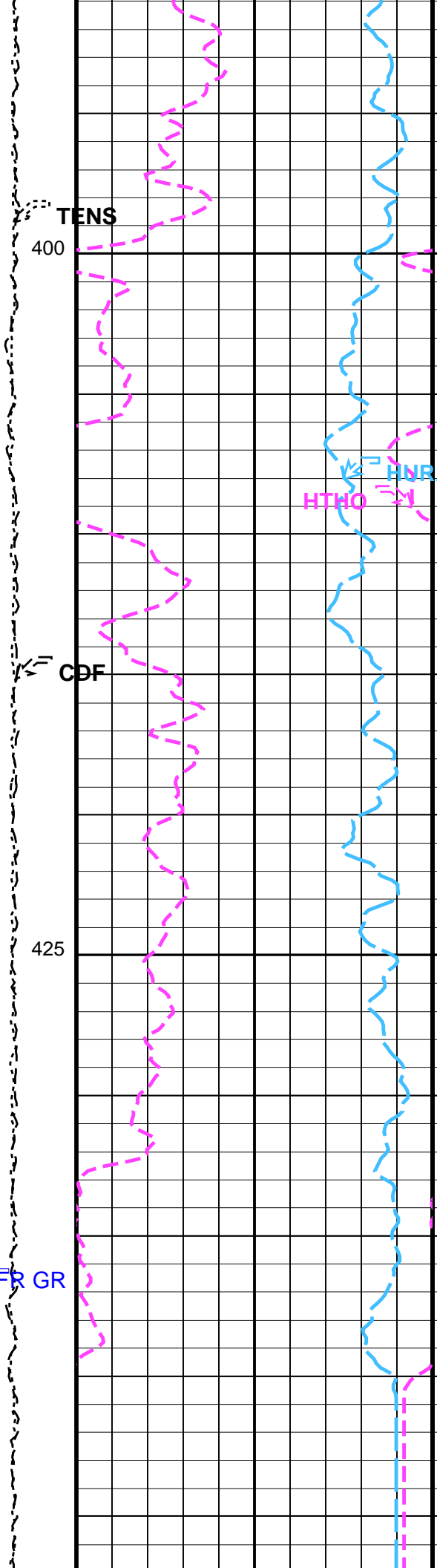
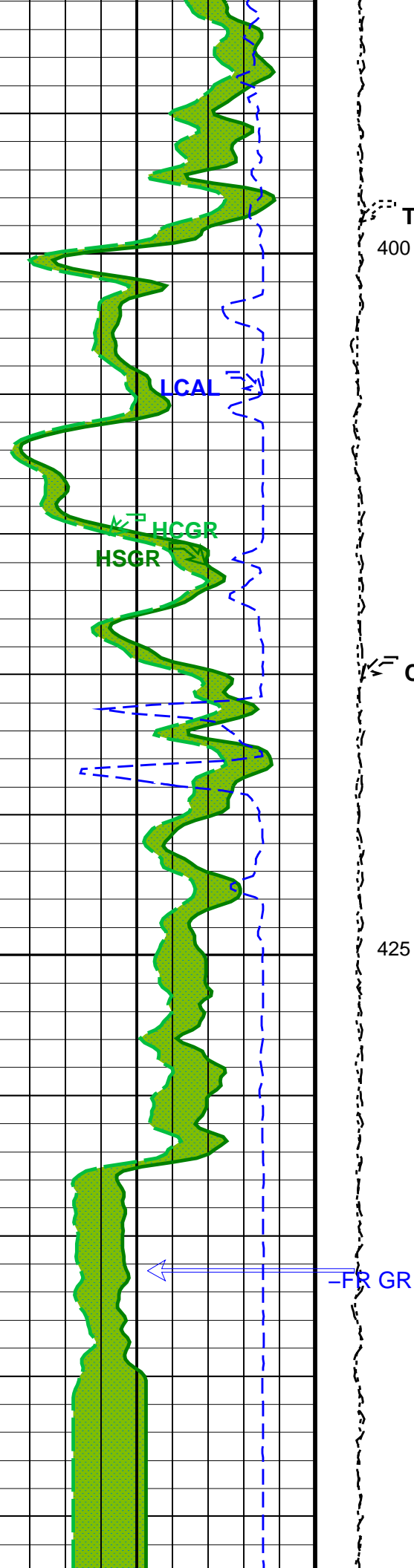


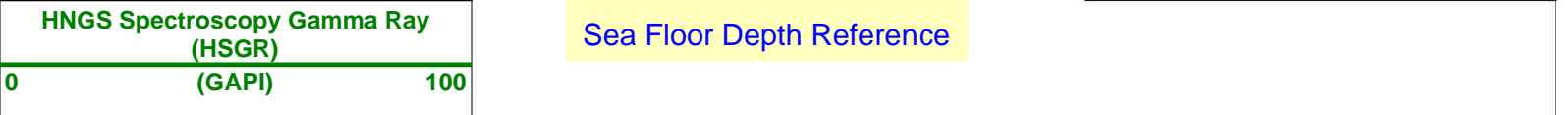
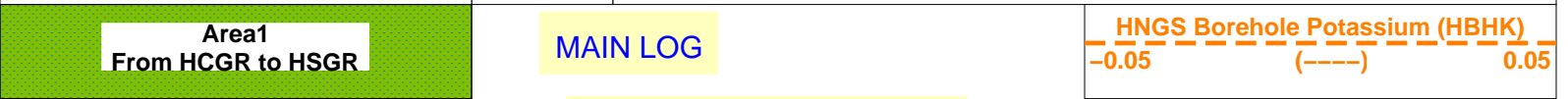
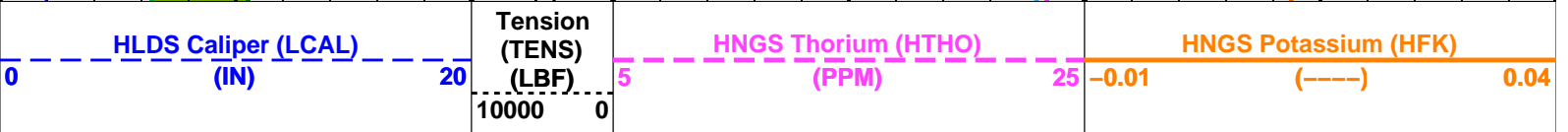
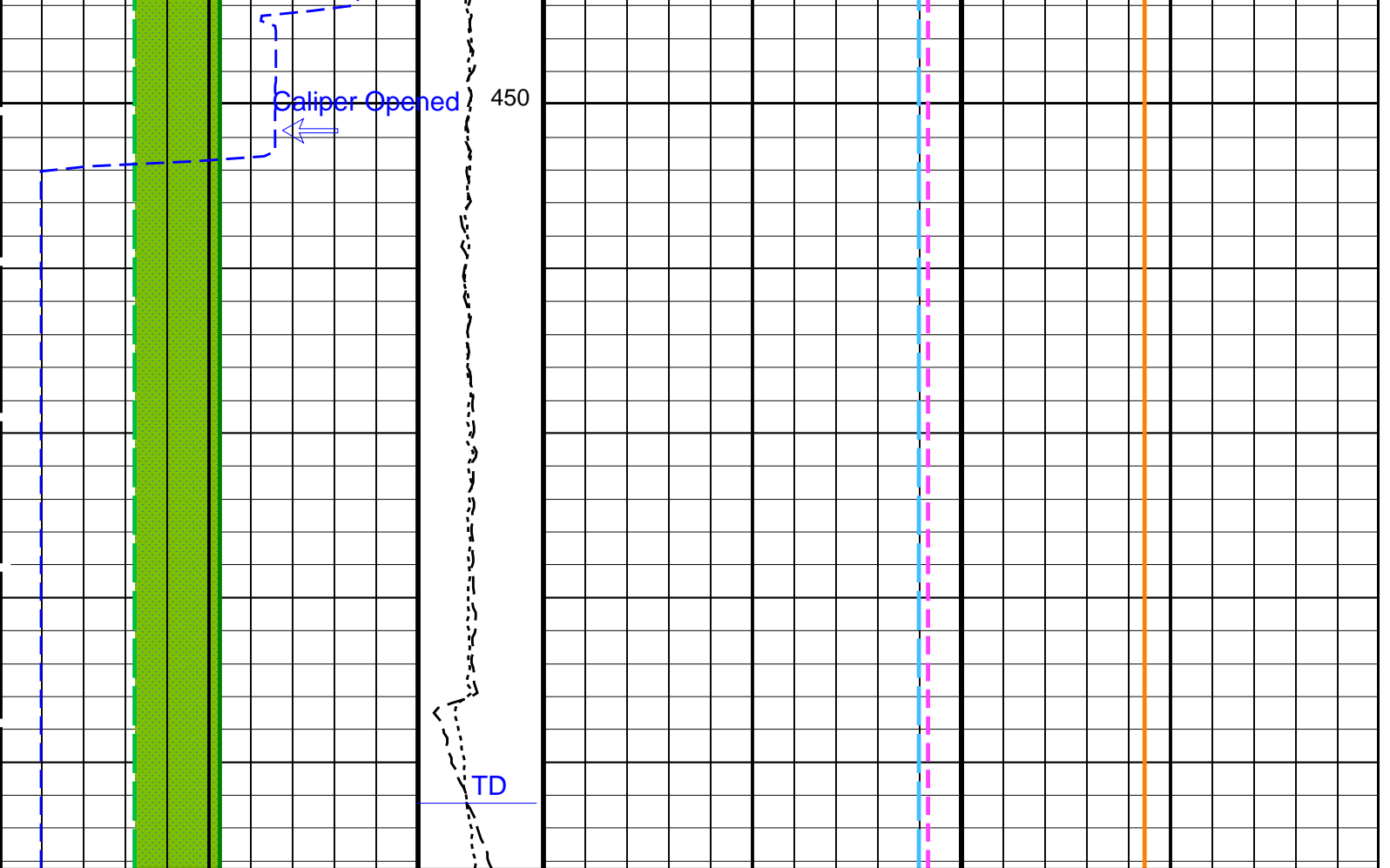












MAIN LOG

Sea Floor Depth Reference

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
HRLT-B: High Resolution Laterolog Array - B		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
APS-C: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
HNGS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 IN
CSW1	Inner Casing Weight	0 LB/F

CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00263053	
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	0.248452	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.13597	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	-4252.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 01-Mar-2014 12:26

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	MSS_LDEO_HRLA_LDL_028PUP	FN:50	PRODUCER	16-Feb-2014 05:20	4725.2 M	4201.1 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_046PUP	FN:66	PRODUCER	01-Mar-2014 12:26		
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Input DLIS Files

DEFAULT	Flip_MSS_LDEO_HRLA_040PUP		PRODUCER	25-Feb-2014 15:38	4719.8 M	4185.7 M
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Output DLIS Files

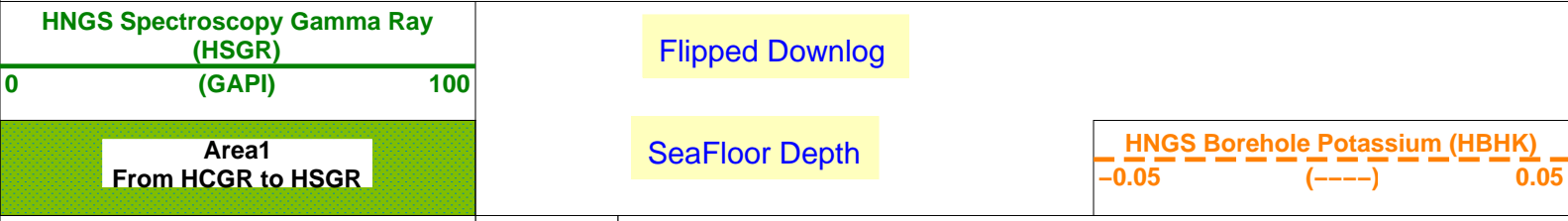
DEFAULT	MSS_LDEO_HRLA_LDL_045PUP	FN:65	PRODUCER	01-Mar-2014 12:23	473.8 M	-60.4 M
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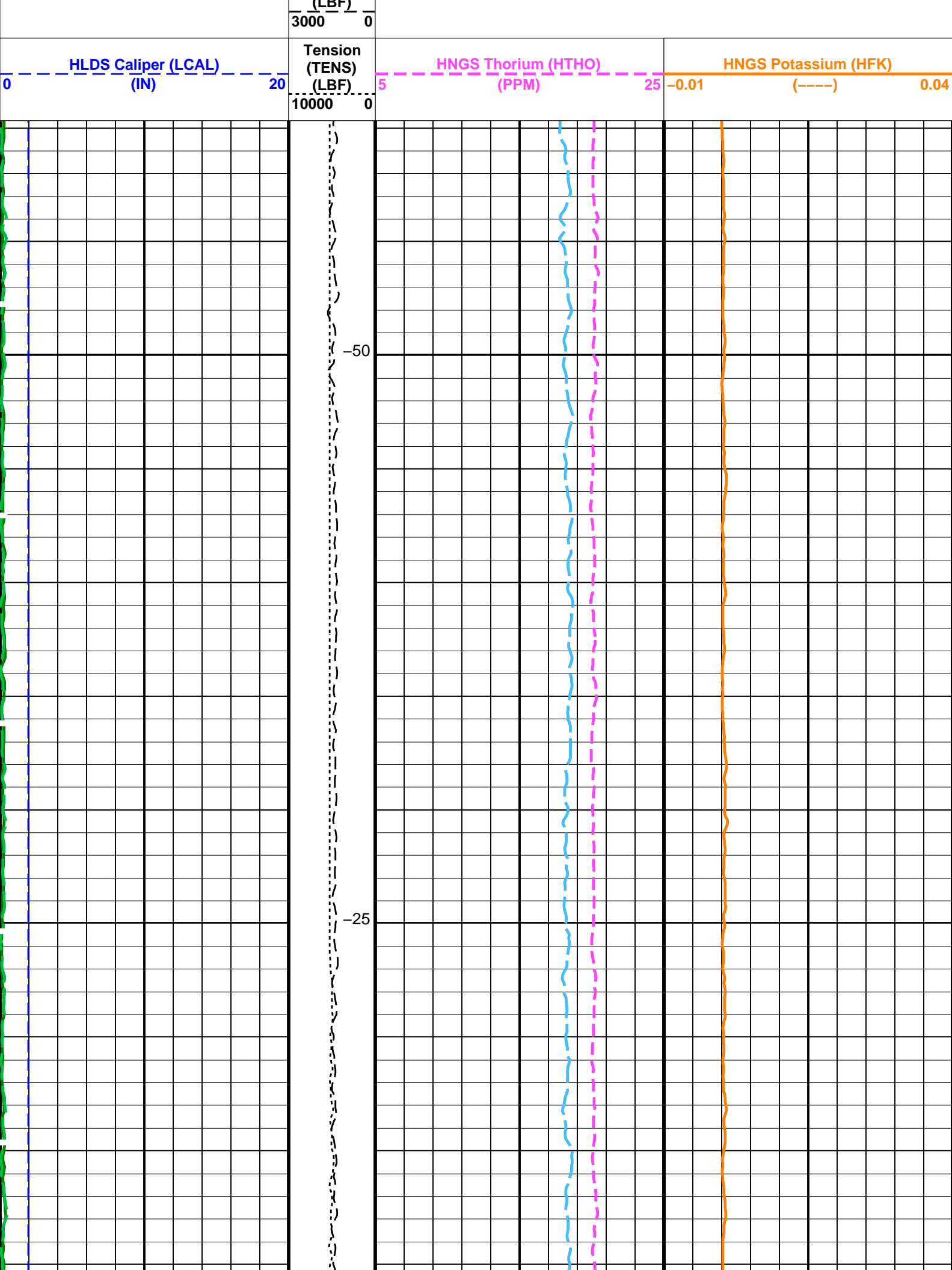
OP System Version: 19C0-187

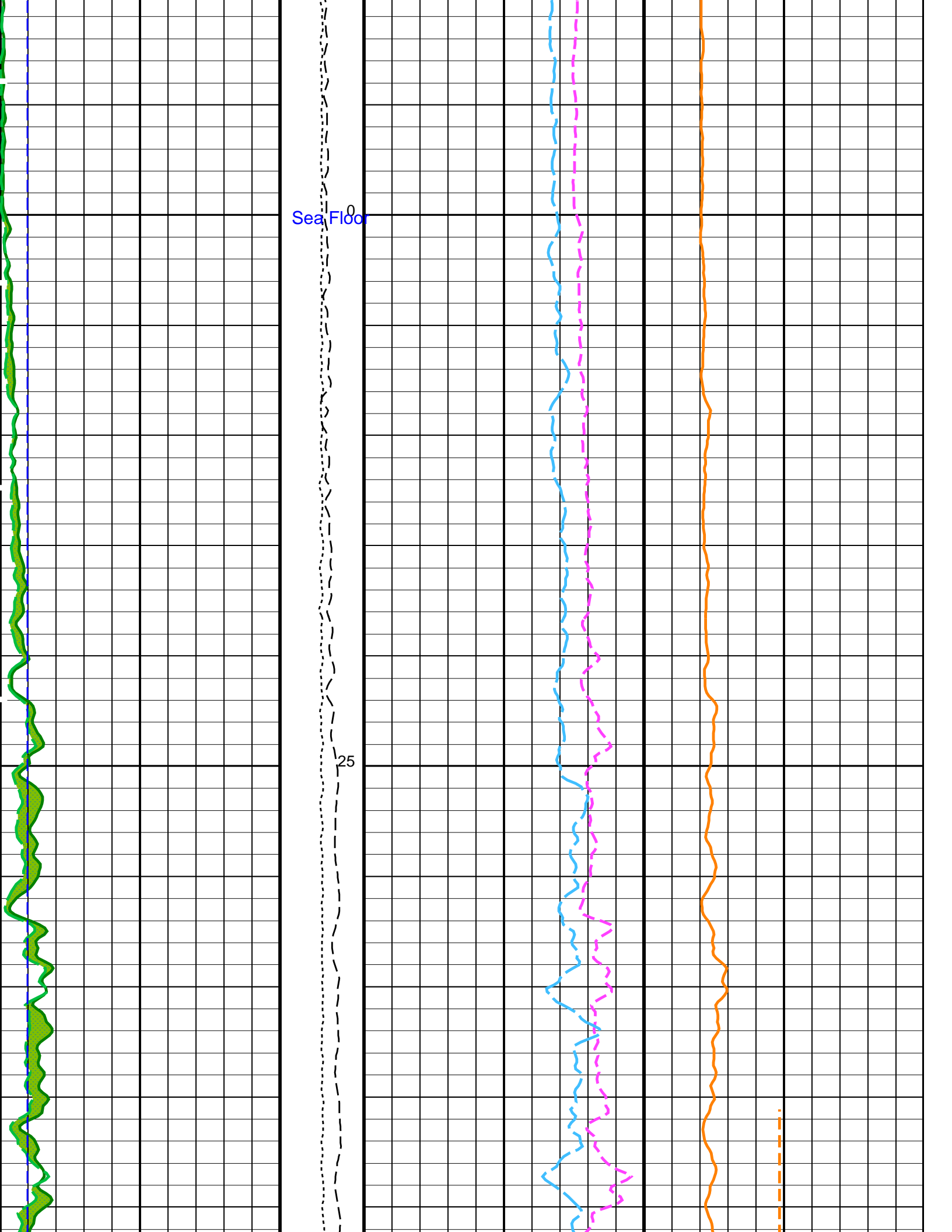
MSS_LDEO-A	19C0-187	HRLT-B	19C0-187
HLDS	19C0-187	LDSC-B	19C0-187
APS-C	19C0-187	HNGC-B	19C0-187
HNGS-BA	19C0-187	EDTC-B	SKK-5169-EDTCB

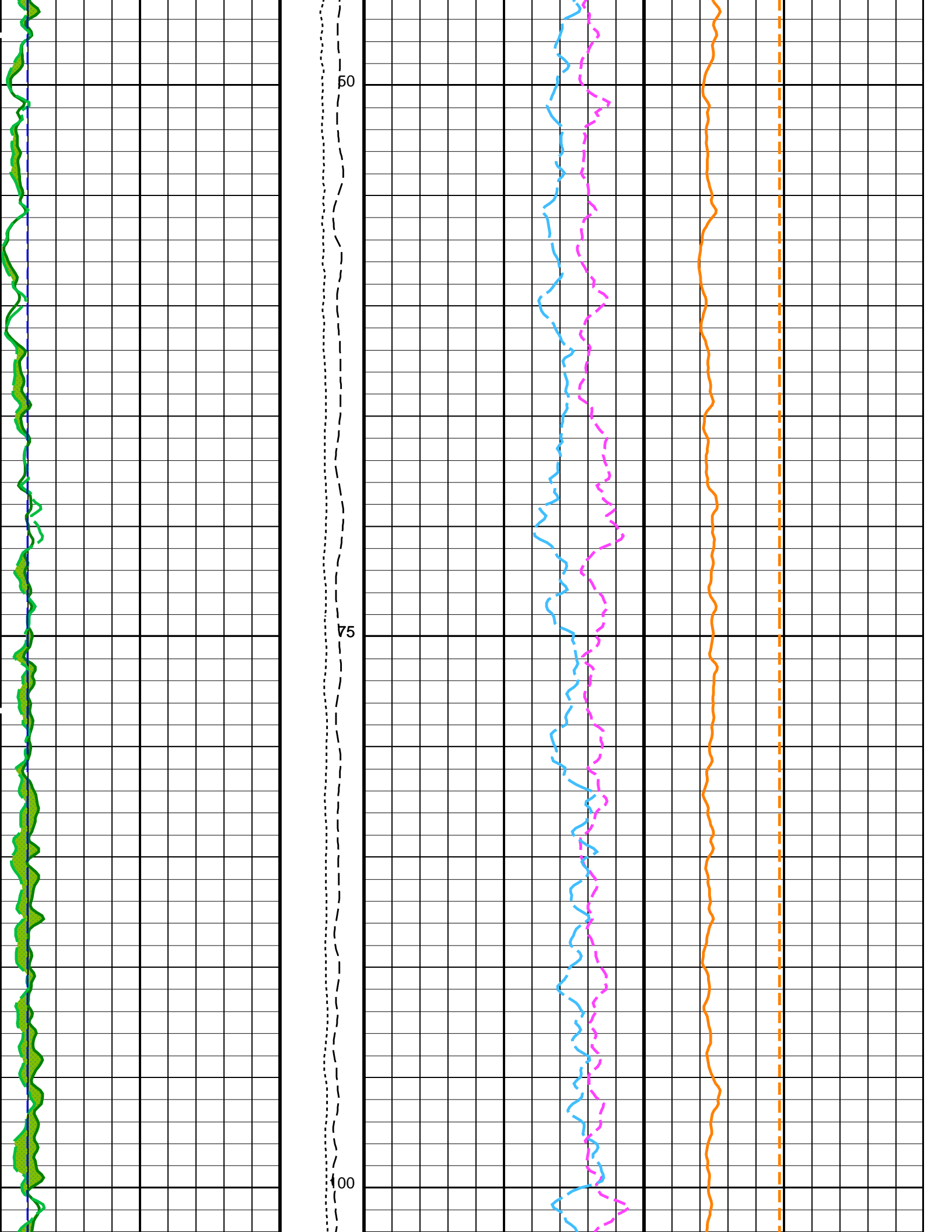
PIP SUMMARY

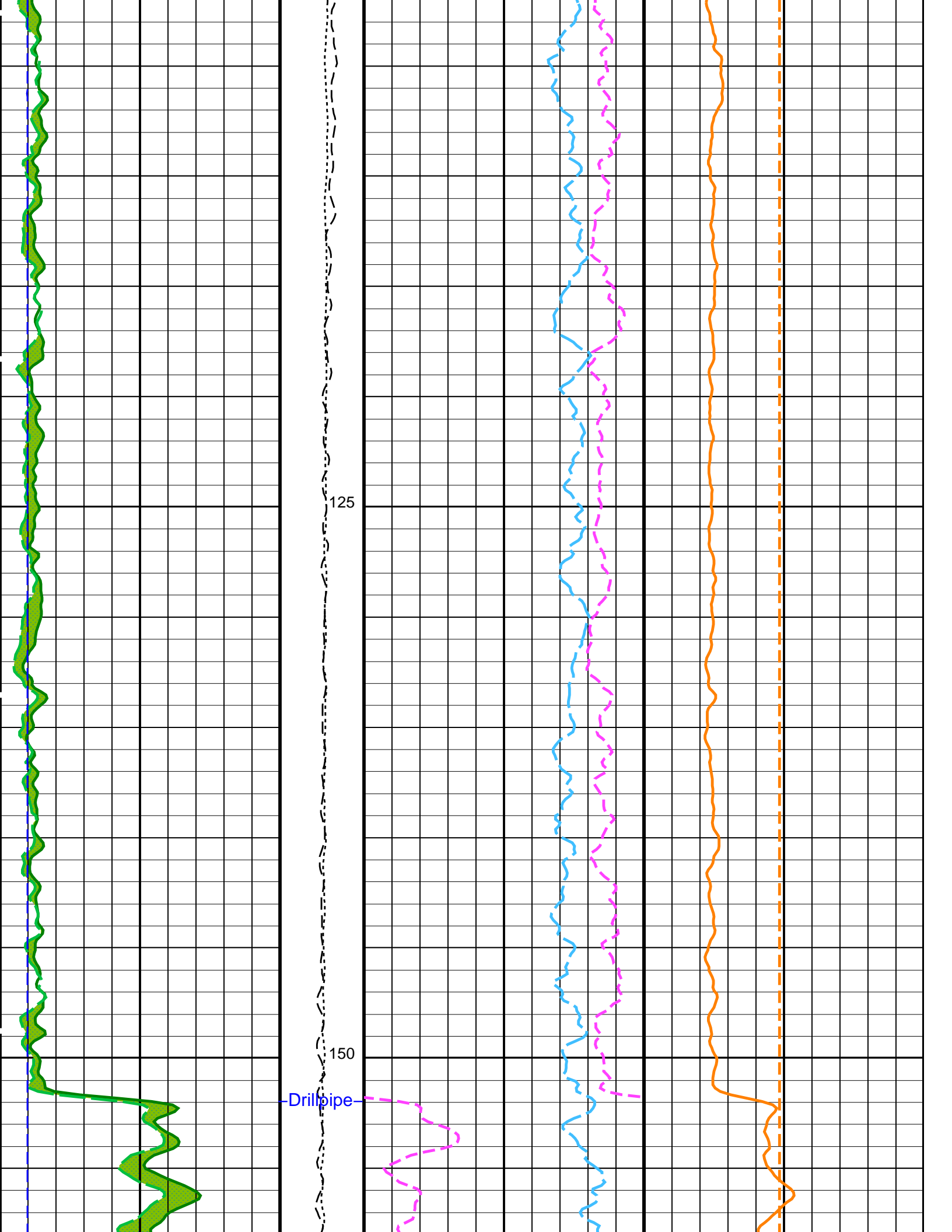
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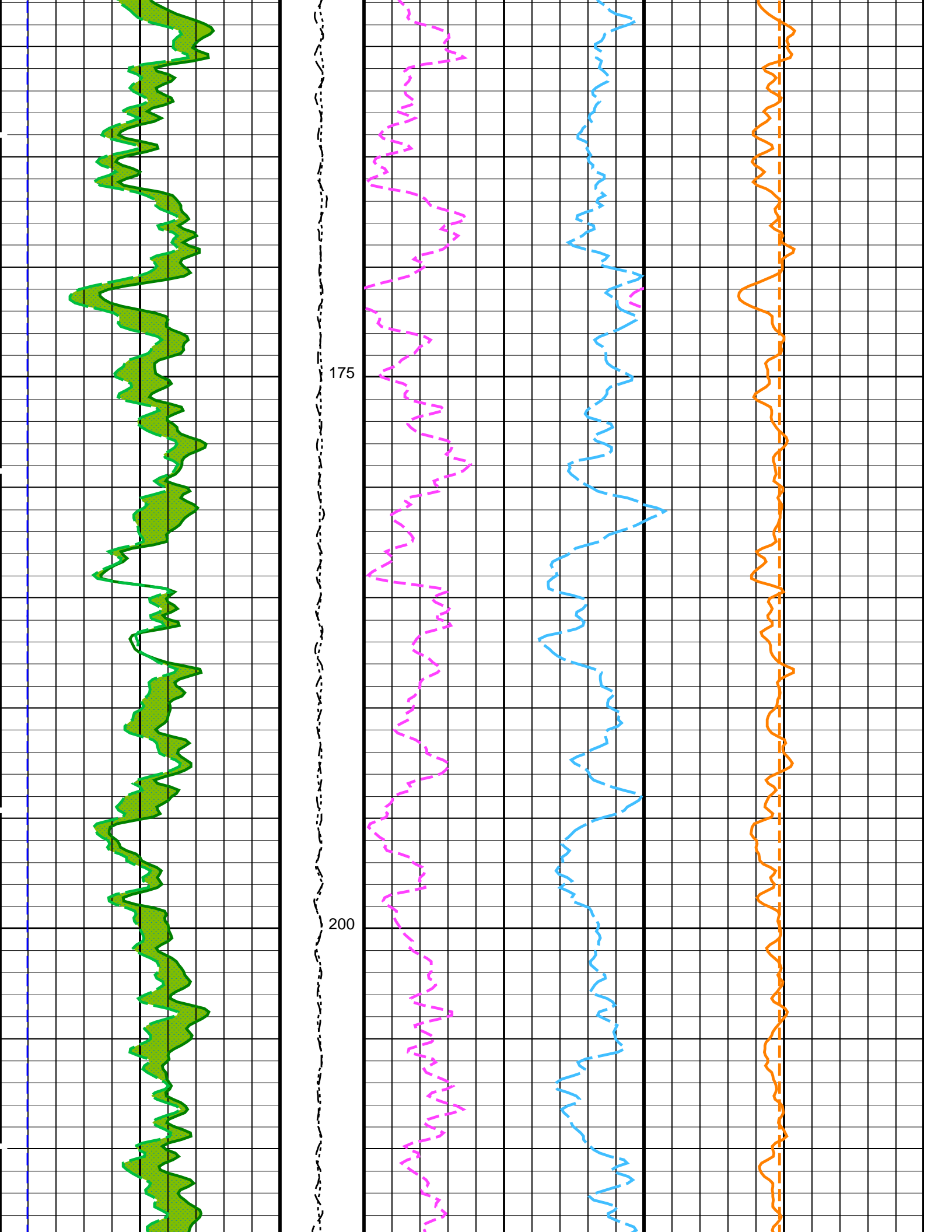


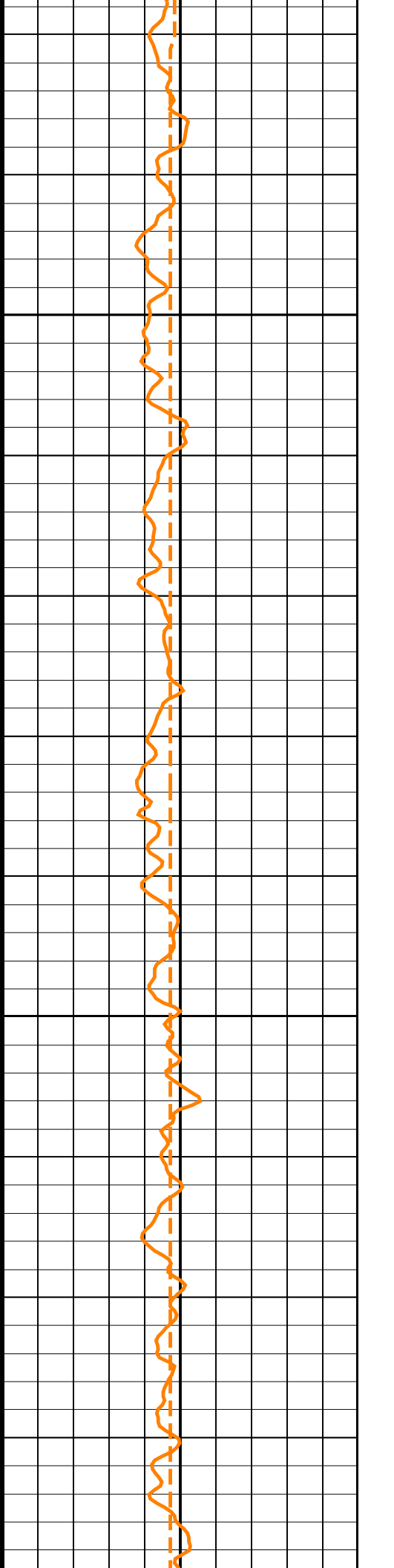
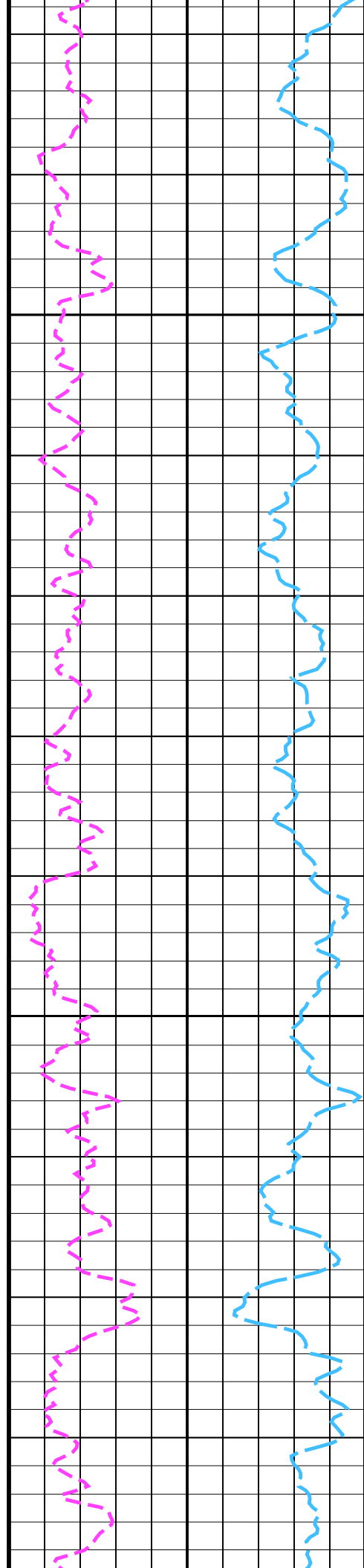
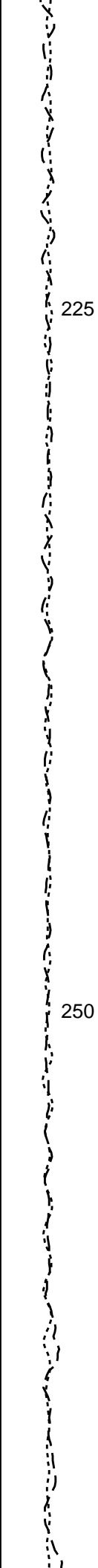
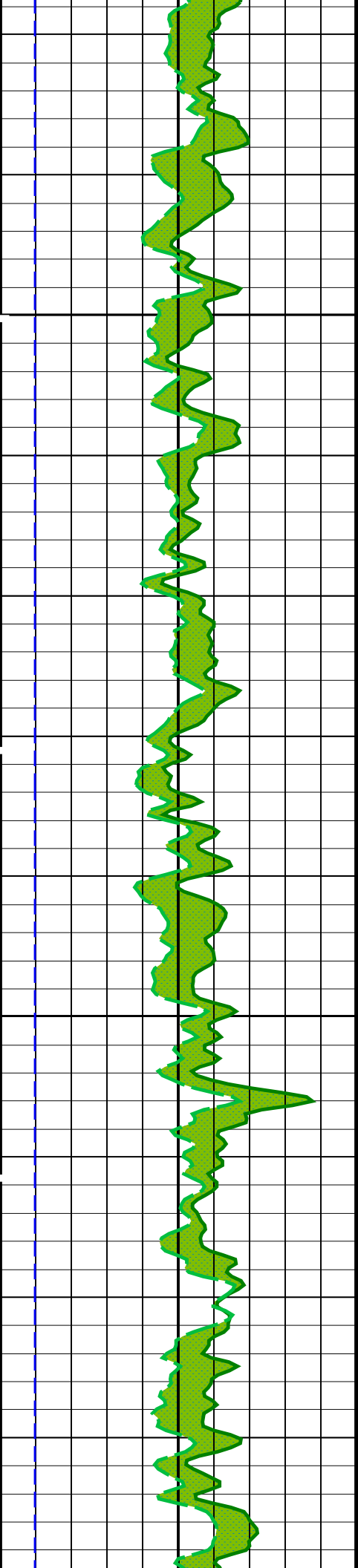


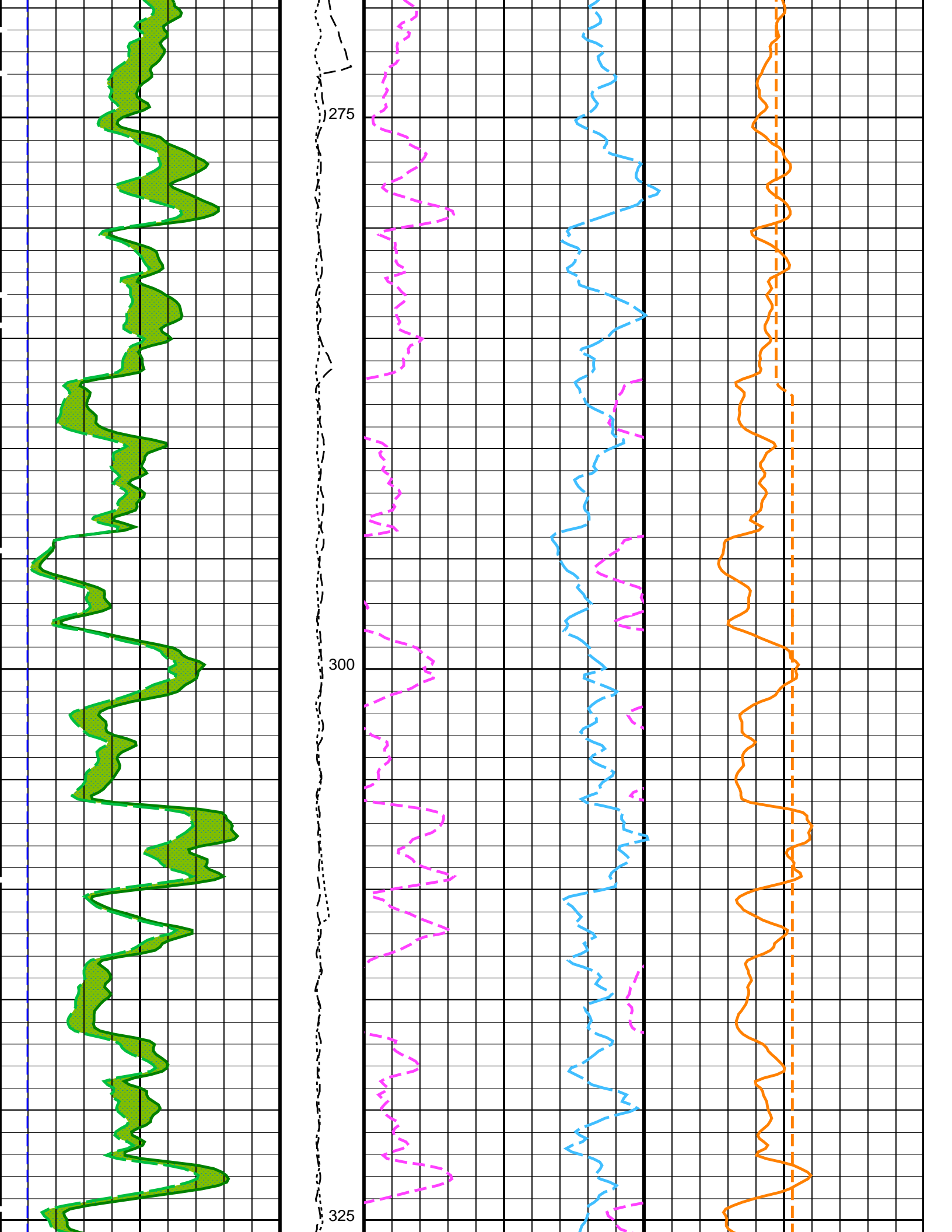


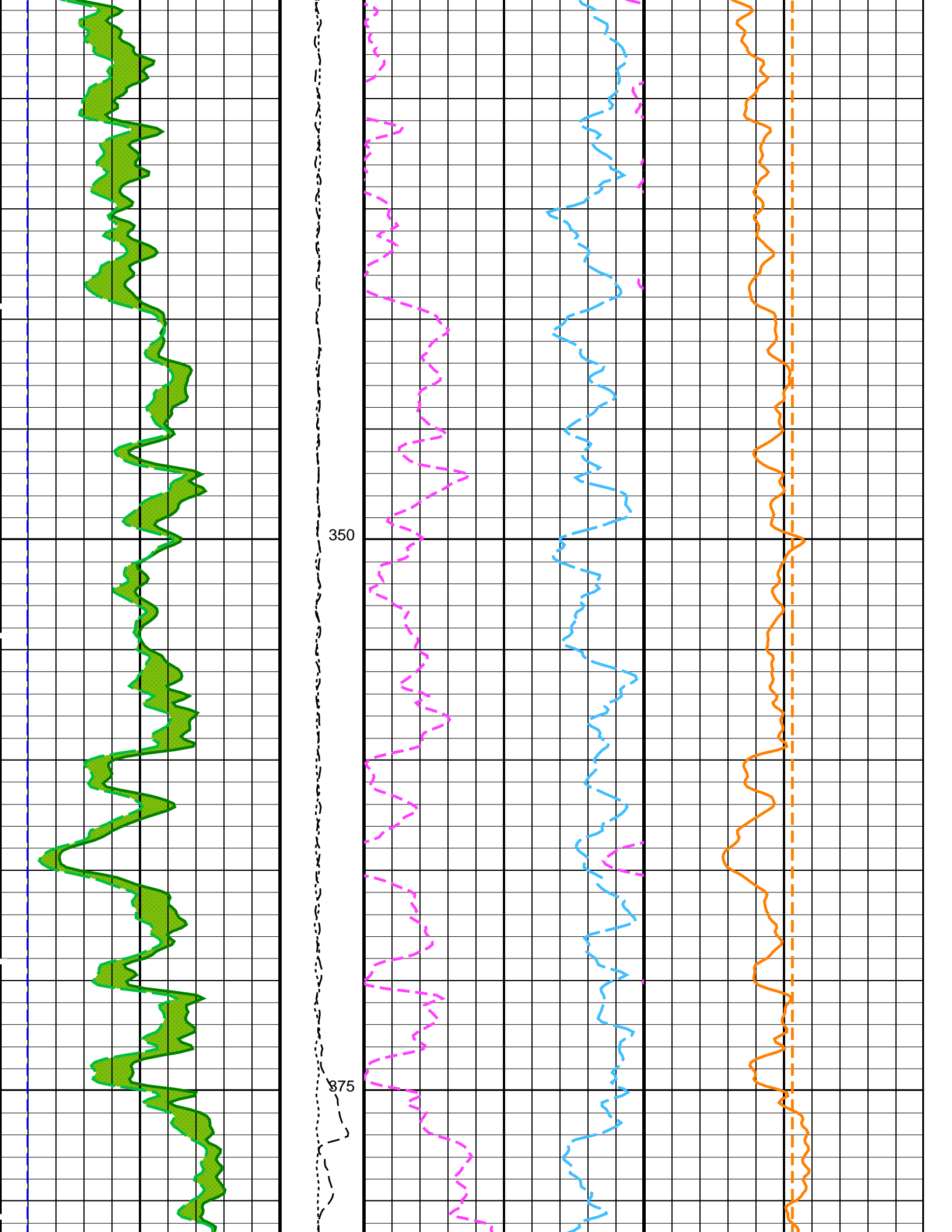


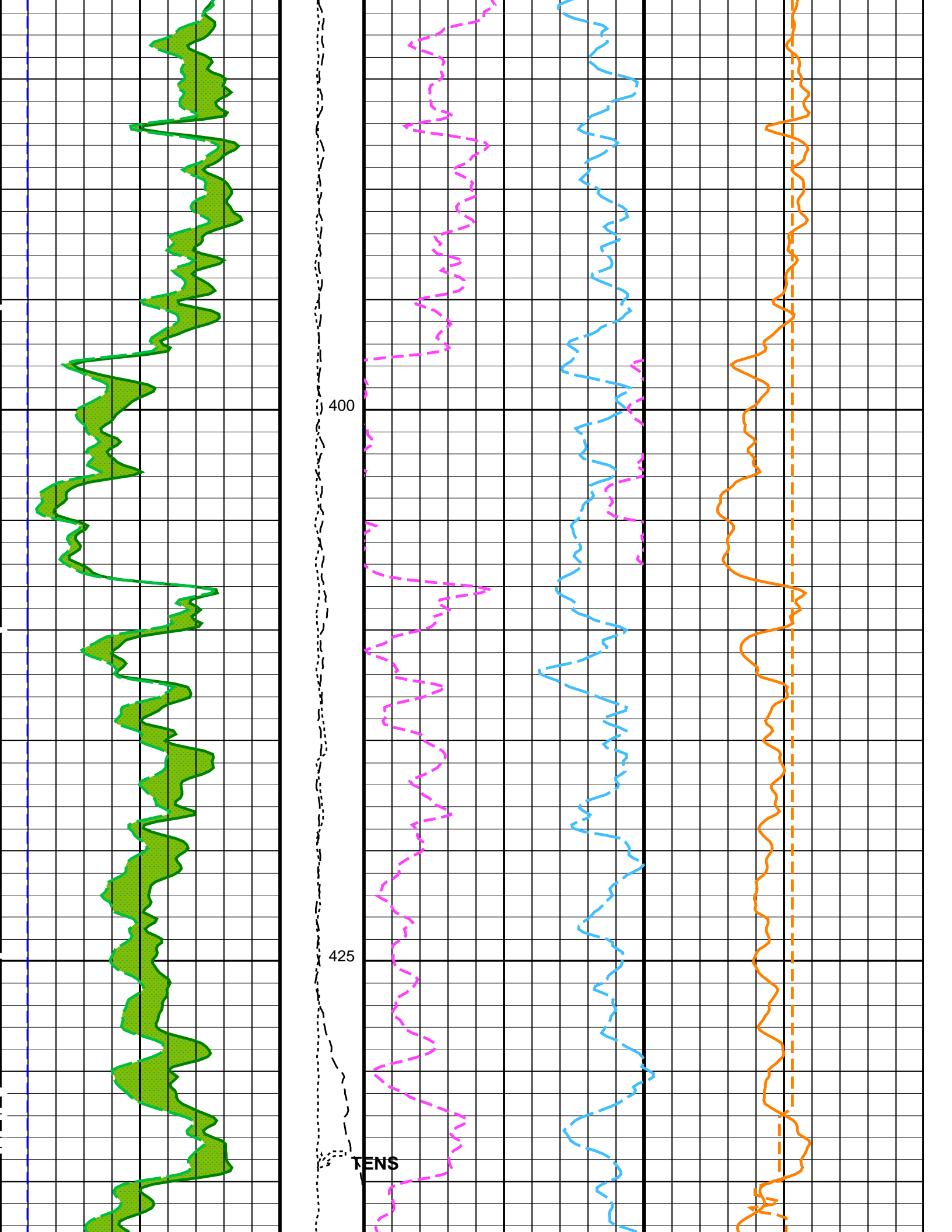


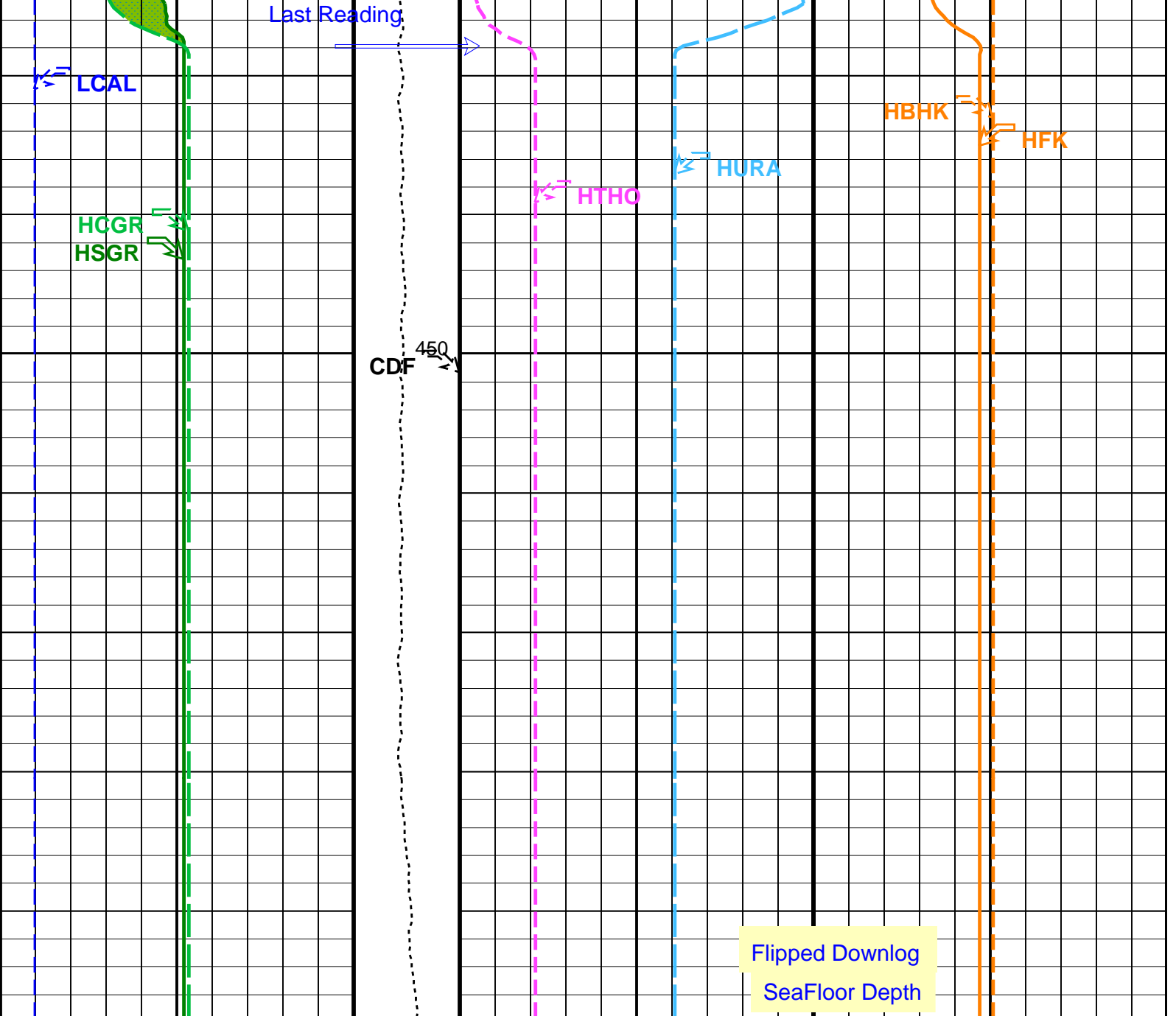












<p>HLDS Caliper (LCAL) (IN)</p> <p>0 20</p>	<p>Tension (TENS) (LBF)</p> <p>10000 0</p>	<p>HNGS Thorium (HTHO) (PPM)</p> <p>5 25</p>	<p>HNGS Potassium (HFK) (-----)</p> <p>-0.01 0.04</p>
<p>HNGS Computed Gamma Ray (HCGR) (GAPI)</p> <p>0 100</p>	<p>Calibrated Downhole Force (CDF) (LBF)</p> <p>3000 0</p>	<p>HNGS Uranium (HURA) (PPM)</p> <p>-5 10</p>	<p>HNGS Borehole Potassium (HBHK) (-----)</p> <p>-0.05 0.05</p>
<p>Area1 From HCGR to HSGR</p> <p>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</p> <p>0 100</p>			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DI IS Name	Description	Value
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DLIS Name	Description	Value	
HRLT-B: High Resolution Laterolog Array - B			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
APS-C: Accelerator-Porosity Tool			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
HNGS-BA: Hostile Natural Gamma Ray Sonde			
BAR1	HNGS Detector 1 Barite Constant	1	
BAR2	HNGS Detector 2 Barite Constant	1	
BHK	HNGS Borehole Potassium Correction Concentration	0	
BHS	Borehole Status	OPEN	
CSD1	Inner Casing Outer Diameter	0	IN
CSD2	Outer Casing Outer Diameter	0	IN
CSW1	Inner Casing Weight	0	LB/F
CSW2	Outer Casing Weight	0	LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE	
GCSE	Generalized Caliper Selection	BS	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00263053	
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	0.248452	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.13597	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	-4246.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 01-Mar-2014 12:23

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_040PUP	PRODUCER	25-Feb-2014 15:38	4719.8 M	4185.7 M
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Output DLIS Files

DEFAULT	MSS_LDEO_HRLA_LDL_045PUP	FN:65	PRODUCER	01-Mar-2014 12:23
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Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
High Resolution Laterolog Array - B Wellsite Calibration - HRLT M01							
Before: 14-Feb-2014 12:26 After: 14-Feb-2014 20:10							
HRLT M0-M1 Voltage Plus - 0	0	N/A	-318.6	-319.2	-0.5269	9.681	UV
HRLT M0-M1 Voltage Plus - 1	0	N/A	-327.5	-336.3	-8.893	9.681	UV
HRLT M0-M1 Voltage Plus - 2	0	N/A	-330.1	-335.8	-5.768	9.681	UV
HRLT M0-M1 Voltage Plus - 3	0	N/A	-334.9	-339.5	-4.607	9.681	UV
HRLT M0-M1 Voltage Plus - 4	0	N/A	-325.0	-326.9	-1.961	9.681	UV
HRLT M0-M1 Voltage Plus - 5	0	N/A	-321.6	-322.9	-1.310	9.681	UV
HRLT M0-M1 Voltage Plus - 6	0	N/A	319.5	326.9	7.431	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: 14-Feb-2014 12:26 After: 14-Feb-2014 20:10							

HRLT M1-M2 Voltage Plus - 0	0	N/A	1753	1754	0.7512	53.42	UV
HRLT M1-M2 Voltage Plus - 1	0	N/A	1806	1850	44.73	53.42	UV
HRLT M1-M2 Voltage Plus - 2	0	N/A	1814	1841	27.63	53.42	UV
HRLT M1-M2 Voltage Plus - 3	0	N/A	1839	1860	21.30	53.42	UV
HRLT M1-M2 Voltage Plus - 4	0	N/A	1783	1791	7.933	53.42	UV
HRLT M1-M2 Voltage Plus - 5	0	N/A	1765	1769	4.068	53.42	UV
HRLT M1-M2 Voltage Plus - 6	0	N/A	-1770	-1808	-37.45	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: 14-Feb-2014 12:26 After: 14-Feb-2014 20:10

HRLT M2-M3 Voltage Plus - 0	0	N/A	1740	1740	-0.02576	53.42	UV
HRLT M2-M3 Voltage Plus - 1	0	N/A	1805	1848	43.30	53.42	UV
HRLT M2-M3 Voltage Plus - 2	0	N/A	1814	1840	26.23	53.42	UV
HRLT M2-M3 Voltage Plus - 3	0	N/A	1842	1862	20.19	53.42	UV
HRLT M2-M3 Voltage Plus - 4	0	N/A	1780	1787	6.274	53.42	UV
HRLT M2-M3 Voltage Plus - 5	0	N/A	1763	1766	3.078	53.42	UV
HRLT M2-M3 Voltage Plus - 6	0	N/A	-1758	-1794	-35.80	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: 14-Feb-2014 12:26 After: 14-Feb-2014 20:10

HRLT A3-A4 Voltage Plus - 0	0	N/A	68350	68440	85.94	2100	UV
HRLT A3-A4 Voltage Plus - 1	0	N/A	70690	72470	1782	2100	UV
HRLT A3-A4 Voltage Plus - 2	0	N/A	71310	72460	1157	2100	UV
HRLT A3-A4 Voltage Plus - 3	0	N/A	72720	73610	885.8	2100	UV
HRLT A3-A4 Voltage Plus - 4	0	N/A	70240	70600	355.0	2100	UV
HRLT A3-A4 Voltage Plus - 5	0	N/A	69570	69800	233.0	2100	UV
HRLT A3-A4 Voltage Plus - 6	0	N/A	-67880	-69350	-1475	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: 14-Feb-2014 12:26 After: 14-Feb-2014 20:10

HRLT A4-A5 Voltage Plus - 0	0	N/A	68620	68720	93.47	2100	UV
HRLT A4-A5 Voltage Plus - 1	0	N/A	71060	72860	1807	2100	UV
HRLT A4-A5 Voltage Plus - 2	0	N/A	71660	72830	1172	2100	UV
HRLT A4-A5 Voltage Plus - 3	0	N/A	73050	73950	903.2	2100	UV
HRLT A4-A5 Voltage Plus - 4	0	N/A	70530	70900	366.4	2100	UV
HRLT A4-A5 Voltage Plus - 5	0	N/A	69850	70080	228.5	2100	UV
HRLT A4-A5 Voltage Plus - 6	0	N/A	-68260	-69730	-1475	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: 14-Feb-2014 12:26 After: 14-Feb-2014 20:10

HRLT A5-A6 Voltage Plus - 0	0	N/A	68510	68620	110.4	2100	UV
HRLT A5-A6 Voltage Plus - 1	0	N/A	70790	72570	1788	2100	UV
HRLT A5-A6 Voltage Plus - 2	0	N/A	71420	72590	1165	2100	UV
HRLT A5-A6 Voltage Plus - 3	0	N/A	72850	73770	914.6	2100	UV
HRLT A5-A6 Voltage Plus - 4	0	N/A	70390	70750	356.3	2100	UV
HRLT A5-A6 Voltage Plus - 5	0	N/A	69750	69950	204.5	2100	UV
HRLT A5-A6 Voltage Plus - 6	0	N/A	-67990	-69470	-1475	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: 14-Feb-2014 12:26 After: 14-Feb-2014 20:10

HRLT Torpedo-M0 Voltage - 0	0	N/A	-68200	-68290	-92.25	2100	UV
HRLT Torpedo-M0 Voltage - 1	0	N/A	-71100	-72930	-1832	2100	UV
HRLT Torpedo-M0 Voltage - 2	0	N/A	-71730	-72890	-1166	2100	UV
HRLT Torpedo-M0 Voltage - 3	0	N/A	-73140	-74060	-917.2	2100	UV
HRLT Torpedo-M0 Voltage - 4	0	N/A	-70590	-70950	-362.6	2100	UV
HRLT Torpedo-M0 Voltage - 5	0	N/A	-69890	-70120	-226.3	2100	UV
HRLT Torpedo-M0 Voltage - 6	0	N/A	68240	69740	1502	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: 14-Feb-2014 12:26 After: 14-Feb-2014 20:10

HRLT Bridle#9-M0 Voltage - 0	0	N/A	-68220	-68290	-65.30	2100	UV
HRLT Bridle#9-M0 Voltage - 1	0	N/A	-71110	-72900	-1786	2100	UV
HRLT Bridle#9-M0 Voltage - 2	0	N/A	-71750	-72870	-1120	2100	UV
HRLT Bridle#9-M0 Voltage - 3	0	N/A	-73170	-74040	-868.0	2100	UV
HRLT Bridle#9-M0 Voltage - 4	0	N/A	-70620	-70950	-332.6	2100	UV
HRLT Bridle#9-M0 Voltage - 5	0	N/A	-69920	-70110	-192.3	2100	UV
HRLT Bridle#9-M0 Voltage - 6	0	N/A	68260	69720	1461	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: 14-Feb-2014 12:26 After: 14-Feb-2014 20:10

HRLT Source Current Plus - 0	0	N/A	284.4	284.7	0.2940	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 - 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: 14-Feb-2014 12:26 After: 14-Feb-2014 20:10

HRLT Vertical Voltage PI - 0	0	N/A	-321.1	-321.5	-0.4245	9.681	UV
HRLT Vertical Voltage PI - 1	0	N/A	-322.7	-331.0	-8.301	9.681	UV
HRLT Vertical Voltage PI - 2	0	N/A	-324.2	-329.3	-5.105	9.681	UV
HRLT Vertical Voltage PI - 3	0	N/A	-327.0	-331.1	-4.052	9.681	UV
HRLT Vertical Voltage PI - 4	0	N/A	-314.2	-315.8	-1.598	9.681	UV
HRLT Vertical Voltage PI - 5	0	N/A	-325.9	-326.9	-1.033	9.681	UV
HRLT Vertical Voltage PI - 6	0	N/A	327.6	334.8	7.194	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: 18-Jan-2014 7:12 Before: 7-Feb-2014 4:38 After: 14-Feb-2014 22:48

SS Cs Resolution Bkg	9.000	7.743	7.765	7.784	0.01945	1.800	%
LS Cs Resolution Bkg	9.000	8.077	8.064	7.987	-0.07712	1.800	%
LSW1 Background	100.0	83.87	83.87	83.39	-0.4825	0.03000	CPS
LSW2 Background	100.0	76.15	75.58	75.59	0.01392	0.03000	CPS
LSW3 Background	200.0	173.7	172.8	171.4	-1.385	0.03000	CPS
LSW4 Background	250.0	211.2	209.8	211.2	1.347	0.03000	CPS
LSW5 Background	600.0	497.9	497.1	495.6	-1.479	0.03000	CPS
SSW1 Background	100.0	80.53	80.61	81.41	0.8050	0.03000	CPS
SSW2 Background	200.0	138.8	140.3	139.5	-0.7699	0.03000	CPS
SSW3 Background	500.0	394.3	393.6	391.1	-2.484	0.03000	CPS
SSW4 Background	270.0	209.8	210.8	209.5	-1.301	0.03000	CPS
SSW5 Background	200.0	149.8	150.6	149.0	-1.583	0.03000	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement

Master: 18-Jan-2014 8:04

LSW1 Aluminum	600.0	441.7	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	643.8	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	765.2	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	389.9	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	349.1	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2085	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	5782	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	8168	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3220	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	353.1	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement

Master: 18-Jan-2014 7:59

LSW1 Iron	400.0	327.2	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	553.4	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	724.2	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	374.0	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	335.9	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1575	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	4944	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	7631	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3018	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	325.4	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration

Before: 7-Feb-2014 4:54

HLDS Caliper Small Ring	12.00	N/A	14.61	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	18.22	N/A	N/A	N/A	IN

Accelerator-Porosity Tool Wellsite Calibration - Detector Background

Master: 19-Jan-2014 0:36 Before: 14-Feb-2014 13:57 After: 14-Feb-2014 22:45

Near Det Bkg Cntrate	30.00	33.30	31.43	32.82	1.388	N/A	CPS
Far Det Bkg Cntrate	30.00	33.16	32.67	31.94	-0.7348	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.53	28.48	28.98	0.5045	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	28.93	29.76	30.94	1.180	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	31.86	34.98	32.30	-2.686	N/A	CPS

Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios

Master: 19-Jan-2014 1:16

Near/Far Calibration Ratio	0.9250	0.8866	N/A	N/A	N/A	N/A
Near/Array Calibration Ratio	1.030	1.066	N/A	N/A	N/A	N/A
Near/Array Cal Ratio Up/Down	1.000	1.019	N/A	N/A	N/A	N/A

Accelerator-Porosity Tool Wellsite Calibration - Tank Check

Master: 19-Jan-2014 1:06

Array-1 Standoff Porosity	11.75	10.18	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	10.27	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	6.107	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9696	N/A	N/A	N/A	N/A	

Array-2 SDT Ratio Up/Down	1.000	0.9801	N/A	N/A	N/A	N/A	N/A	CU
Sigma Formation	27.50	34.45	N/A	N/A	N/A	N/A	N/A	

Accelerator-Porosity Tool Wellsite Calibration – CCR7 signal boxes

Master: 18-Jan-2014 23:55

Near Detector Plateau Setting	1650	1732	N/A	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2079	N/A	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1963	N/A	N/A	N/A	N/A	N/A	V

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 4-Feb-2014 23:51 Before: 5-Feb-2014 0:02 After: 14-Feb-2014 22:49

Na 511 Peak Loc	40.00	39.52	39.48	39.40	-0.08661	1.000	
Na 511 Peak Res	15.50	15.96	16.77	17.49	0.7250	2.000	%
High Voltage	1150	1194	1193	1178	-14.73	N/A	V
Na 1785 Peak Loc	142.6	142.1	141.8	143.3	1.589	7.000	
Na 1785 Peak Res	8.500	9.703	8.709	9.053	0.3436	2.000	%
Temperature	15.50	35.74	35.71	29.22	-6.490	N/A	DEGC
Na Count Rate	45.00	11.77	12.16	12.00	-0.1618	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 4-Feb-2014 23:51 Before: 5-Feb-2014 0:02 After: 14-Feb-2014 22:49

Na 511 Peak Loc	40.00	39.56	39.51	39.31	-0.1972	1.000	
Na 511 Peak Res	15.50	16.07	16.56	18.46	1.905	2.000	%
High Voltage	1150	1126	1128	1111	-16.18	N/A	V
Na 1785 Peak Loc	142.6	142.3	143.1	141.7	-1.305	7.000	
Na 1785 Peak Res	8.500	8.959	9.953	9.256	-0.6973	2.000	%
Temperature	15.50	36.60	36.88	30.79	-6.093	N/A	DEGC
Na Count Rate	45.00	12.28	12.68	12.14	-0.5404	8.000	CPS

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

Master: 4-Feb-2014 23:51 Before: 5-Feb-2014 0:02 After: 14-Feb-2014 22:49

Coincidence Count Rate Ratio	1.000	0.9624	0.9606	0.9838	0.02323	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 4-Feb-2014 20:09

Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	210.4	---	---	---	---	
Th Peak Res	7.000	7.207	---	---	---	---	%
Background Count Rate	142.5	16.20	---	---	---	---	CPS
Gain Ratio	1.000	1.012	---	---	---	---	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 4-Feb-2014 20:09

Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	208.9	---	---	---	---	
Th Peak Res	7.000	7.337	---	---	---	---	%
Background Count Rate	142.5	16.52	---	---	---	---	CPS
Gain Ratio	1.000	1.004	---	---	---	---	

Enhanced DTS Cartridge Wellsite Calibration – EDTC Accelerometer Calibration

Before: Calibration out of date 14-Feb-2014 12:25

EDTC Z-Axis Acceleration	9.810	N/A	9.727	N/A	N/A	N/A	M/S2
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Enhanced DTS Cartridge Wellsite Calibration – Detector Calibration

Before: Calibration out of date 4-Feb-2014 5:11 After: Calibration out of date 5-Feb-2014 0:10

Gamma Ray (Jig – Bkg)	158.1	N/A	158.1	159.9	1.758	0.09091	GAPI
Gamma Ray (Calibrated)	164.0	N/A	164.0	165.8	1.823	15.00	GAPI

Accelerator-Porosity Tool – Detector Plateau Settings :

Near Detector Plateau Setting	1732 V
Far Detector Plateau Setting	2079 V
Array Detector Plateau Setting	1963 V

High Resolution Laterolog Array – B / Equipment Identification

Primary Equipment:		
HRLT Sonde	HRLS – B	768
Auxiliary Equipment:		
HRLT lower Housing	HRLH – B	968
HRLT Lower Cartridge	HRLC – B	974
HRLT upper Housing	HRUH – B	768
HRLT Upper Cartridge	HRUC – B	764

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS – D	35
Hostile Litho Density High Voltage	HLDV – D	35
Gamma Source Radioactive	GSR – Z	8113
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP – C	35
Hostile Litho Density High Voltage Housi	HEH – H	35

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	22
APS Minitron	MNTR – F	7341
Auxiliary Equipment:		
Accelerator-Porosity Housing	APH – AC	22
APS Calibration Water Tank	SFT – 178	1
APS Aluminum Calibrator Sleeve	SFT – 281	1

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	HNSH – BA	205
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		39.52	Master		15.96	Master		1194
Before		39.48	Before		16.77	Before		1193
After		39.40	After		17.49	After		1178
	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		142.1	Master		9.703	Master		35.74
Before		141.8	Before		8.709	Before		35.71
After		143.3	After		9.053	After		29.22
	135.0 142.6 150.3			7.000 8.500 11.00			-28.89 15.50 60.00	

Phase	Na Count Rate CPS	Value
Master		11.77
Before		12.16
After		12.00
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)		
Master: 4-Feb-2014 23:51		
Before: 5-Feb-2014 0:02		
After: 14-Feb-2014 22:49		

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		39.56	Master		16.07	Master		1126
Before		39.51	Before		16.56	Before		1128
After		39.31	After		18.46	After		1111
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		142.3	Master		8.959	Master		36.60
Before		143.1	Before		9.953	Before		36.88
After		141.7	After		9.256	After		30.79
135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.00 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)		
Phase	Na Count Rate CPS	Value						
Master		12.28						
Before		12.68						
After		12.14						
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								
Master: 4-Feb-2014 23:51								
Before: 5-Feb-2014 0:02								
After: 14-Feb-2014 22:49								

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9624
Before		0.9606
After		0.9838
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		
Master: 4-Feb-2014 23:51		
Before: 5-Feb-2014 0:02		
After: 14-Feb-2014 22:49		

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		41.00	Master		210.4	Master		7.207
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		16.20	Master		1.012			
10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)					
Master: 4-Feb-2014 20:09								

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		208.9	Master		7.337
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)		

