

DISCLAIMER

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OTHER SERVICES1

- OS1: MTT
- OS2: HLDS
- OS3: UBI

REMARKS: RUN NUMBER 1

Logs run in first hole ("A" hole) of drilling site U1362 for the primary purpose of evaluating borehole condition in preparation to set a drilling packer for a formation injectivity test.

Logs depths recorded from drill floor; corrected to match driller's casing shoe.

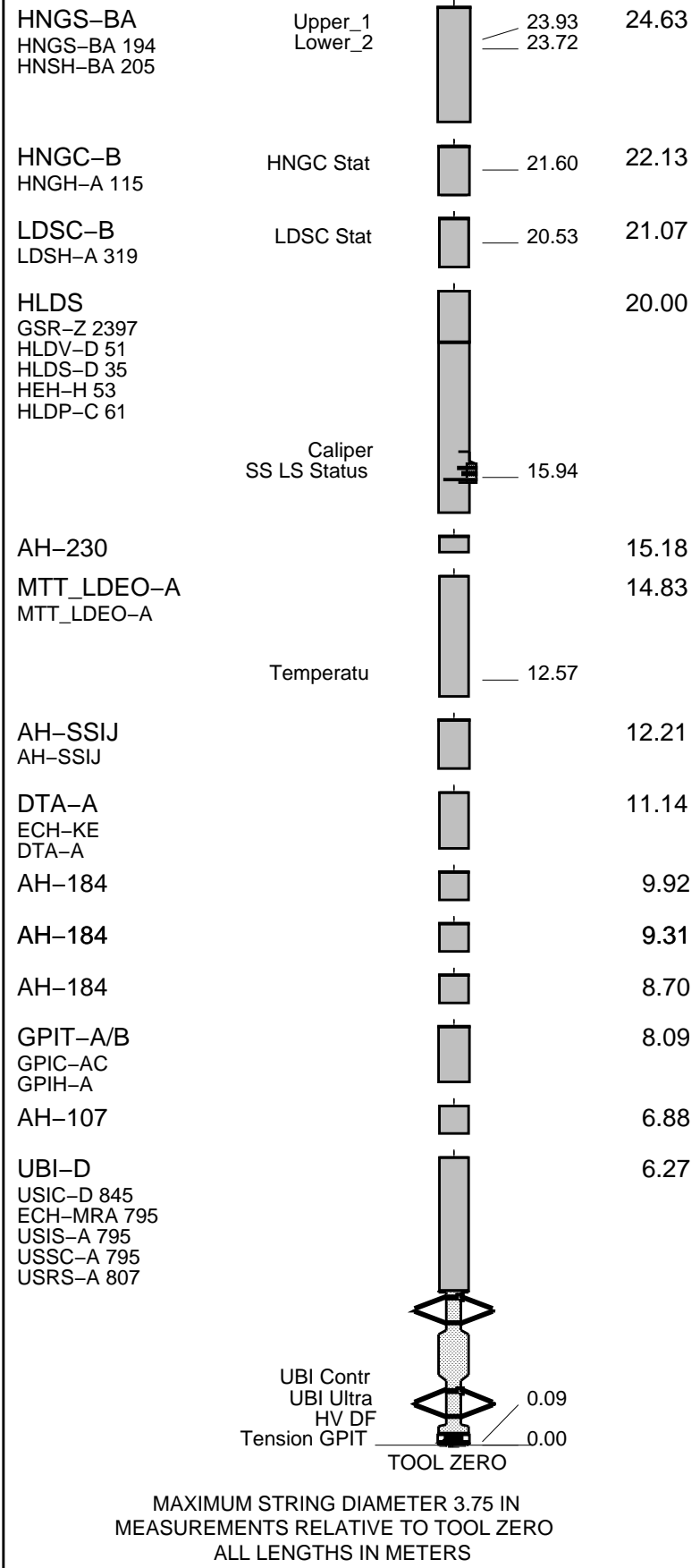
RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION: 17C0-154			PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1	RUN 2
SURFACE EQUIPMENT	
GSR-U 616008 WITM (DTS)-A	

DOWNHOLE EQUIPMENT	
SP SPARC	— 26.44
BSP	26.44
LEH-QT	26.44
LEH-QT 301	
CTEM	— 25.27
DTC-H	25.55
ECH-KC	— 24.63
TelStatus	
ToolStatu	

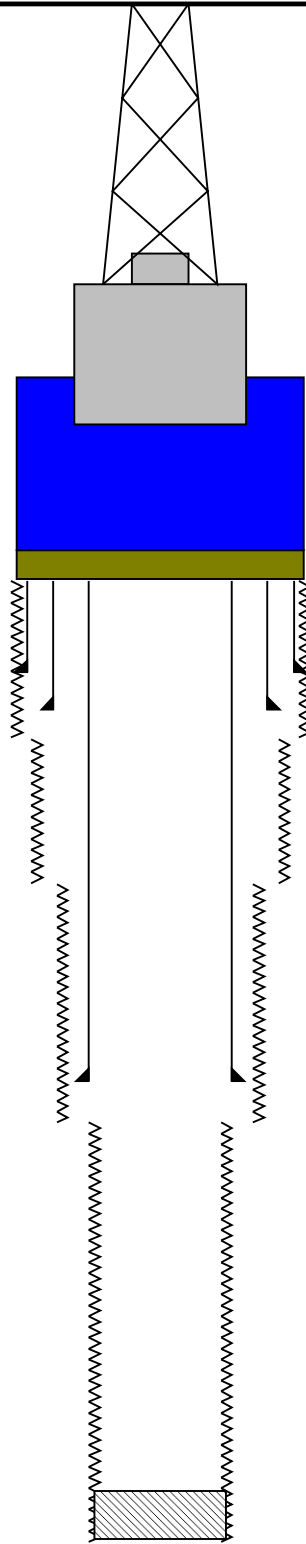




Production String	(in) (m)	Well Schematic	(m) (in)	Casing String
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Kelly Bushing Elevation
 Derrick Floor Elevation
 Mean Sea Level

11.0
 11.0
 0.0



2672.0

Sea Bed

2725.0

20.000

Casing Shoe

2902.0

16.000

Casing Shoe

2907.7

21.500

Borehole Segment Bottom

2914.0

18.500

Borehole Segment Bottom

2980.5

10.750

Casing Shoe

3018.0

14.750

Borehole Segment Bottom

3184.0

Fill Identified by Last Wiper Trip

3200.0

9.875

Driller's Total Depth

Schlumberger

**First Pass
1:200 Scale**

MAXIS Field Log

Input DLIS Files

DEFAULT	UBI_MTT_LDEO_LDL_014LUP	FN:13	PRODUCER	12-Aug-2010 08:32	3177.5 M	2943.8 M
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Output DLIS Files

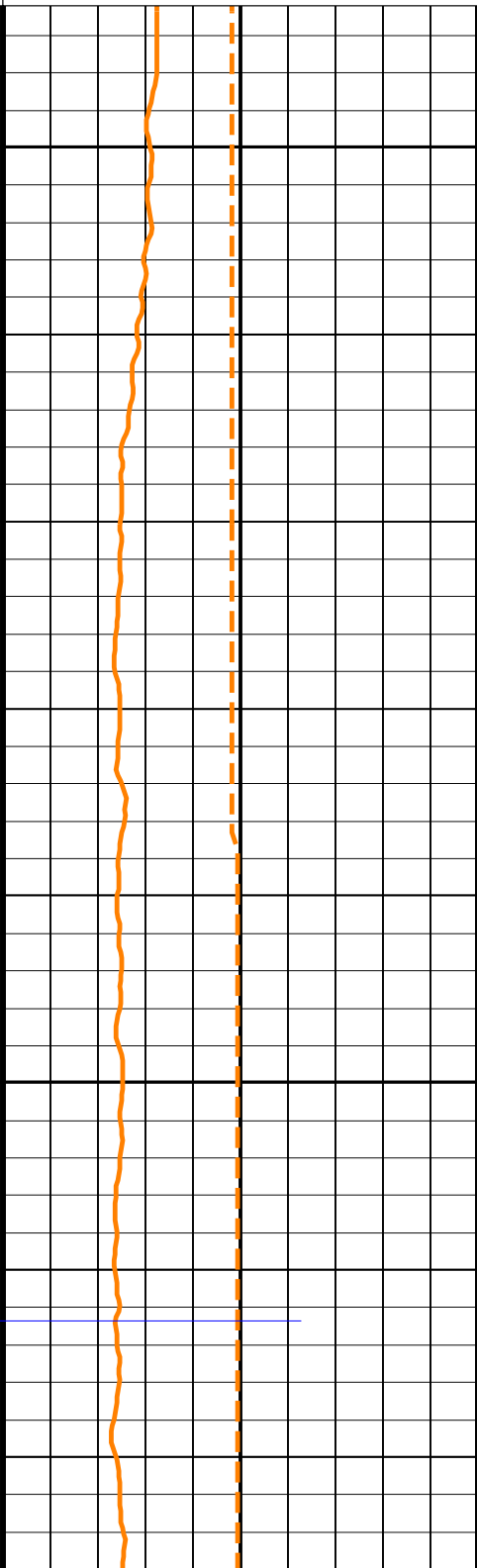
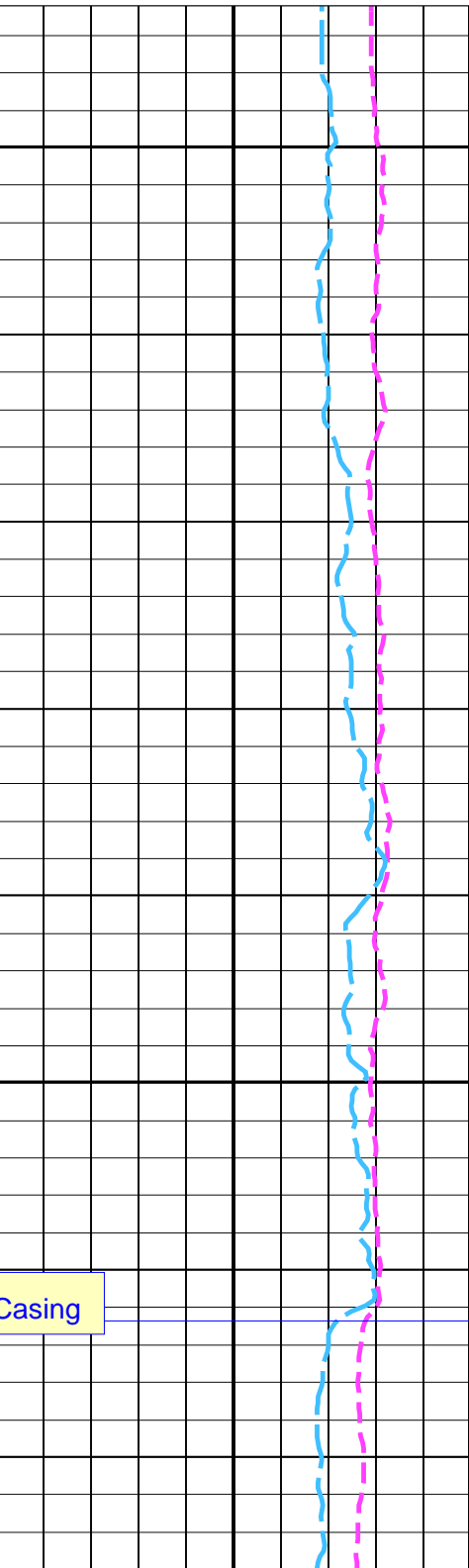
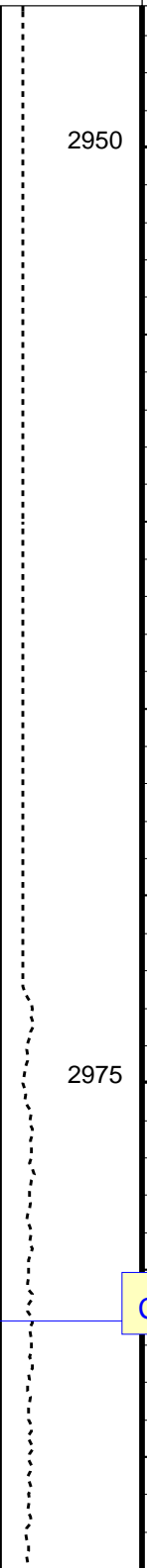
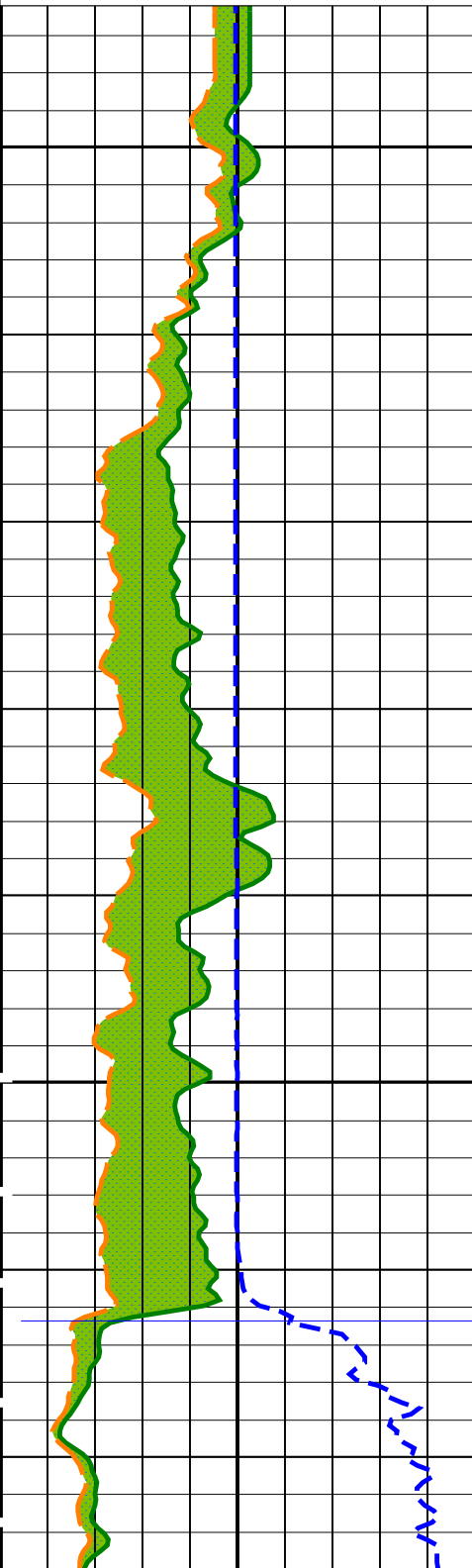
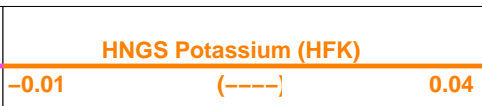
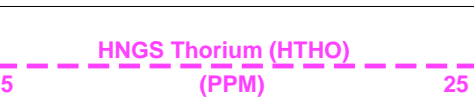
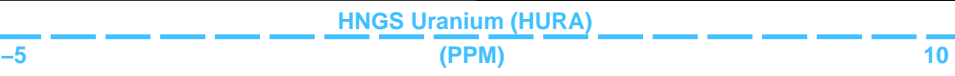
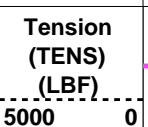
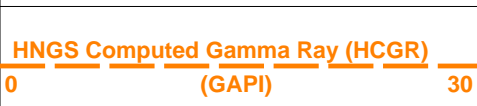
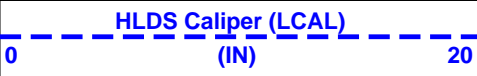
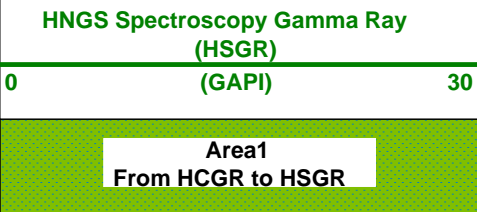
DEFAULT	UBI_MTT_LDEO_LDL_037PUP	FN:36	PRODUCER	12-Aug-2010 21:36	3179.8 M	2946.2 M
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OP System Version: 17C0-154

UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

PIP SUMMARY

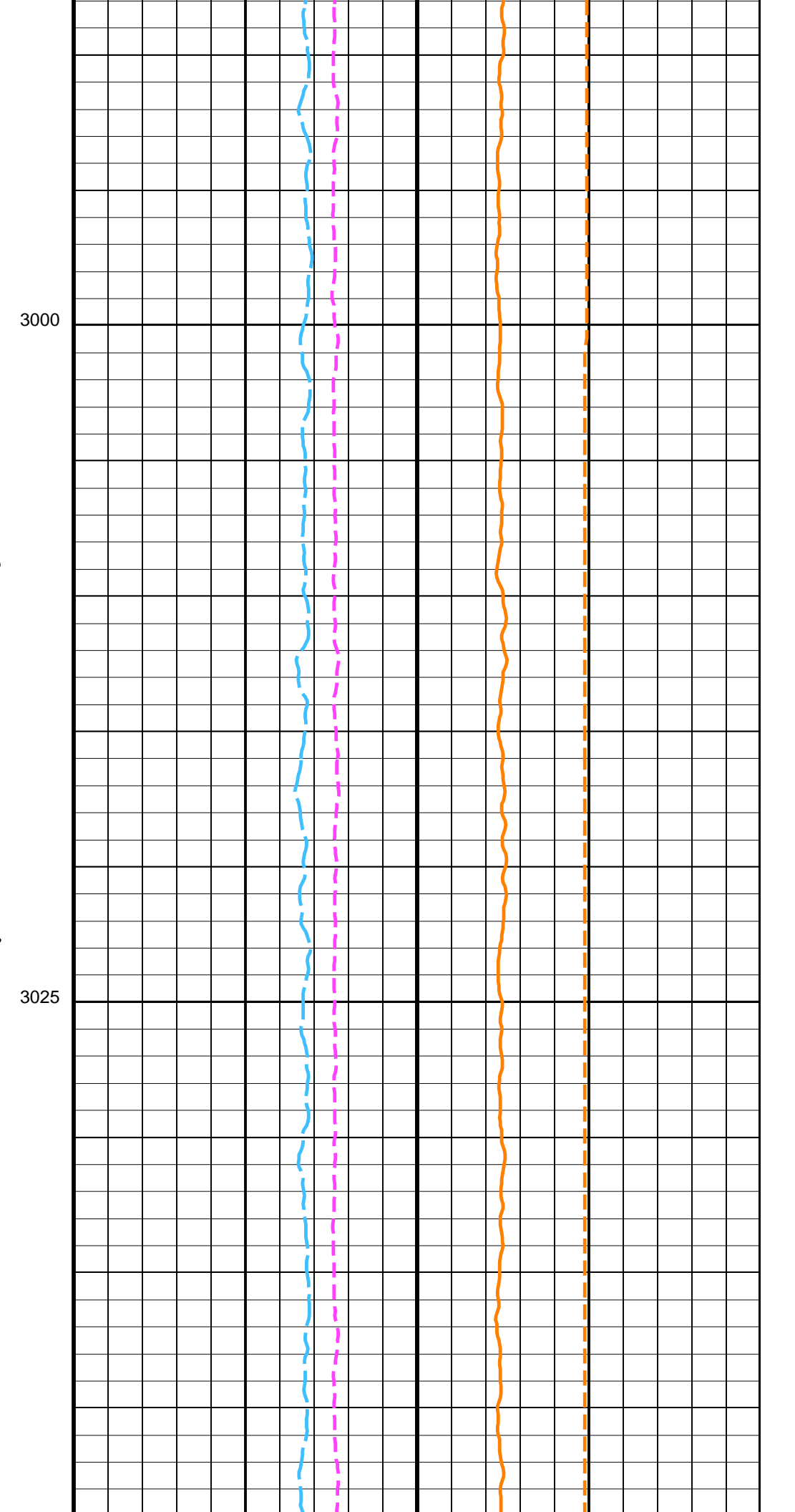
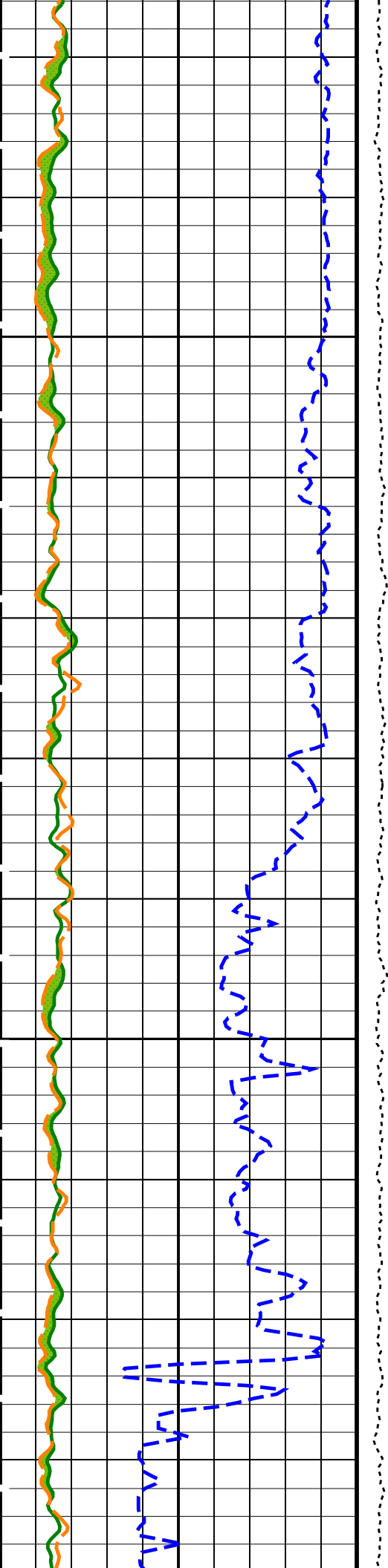
Time Mark Every 60 S

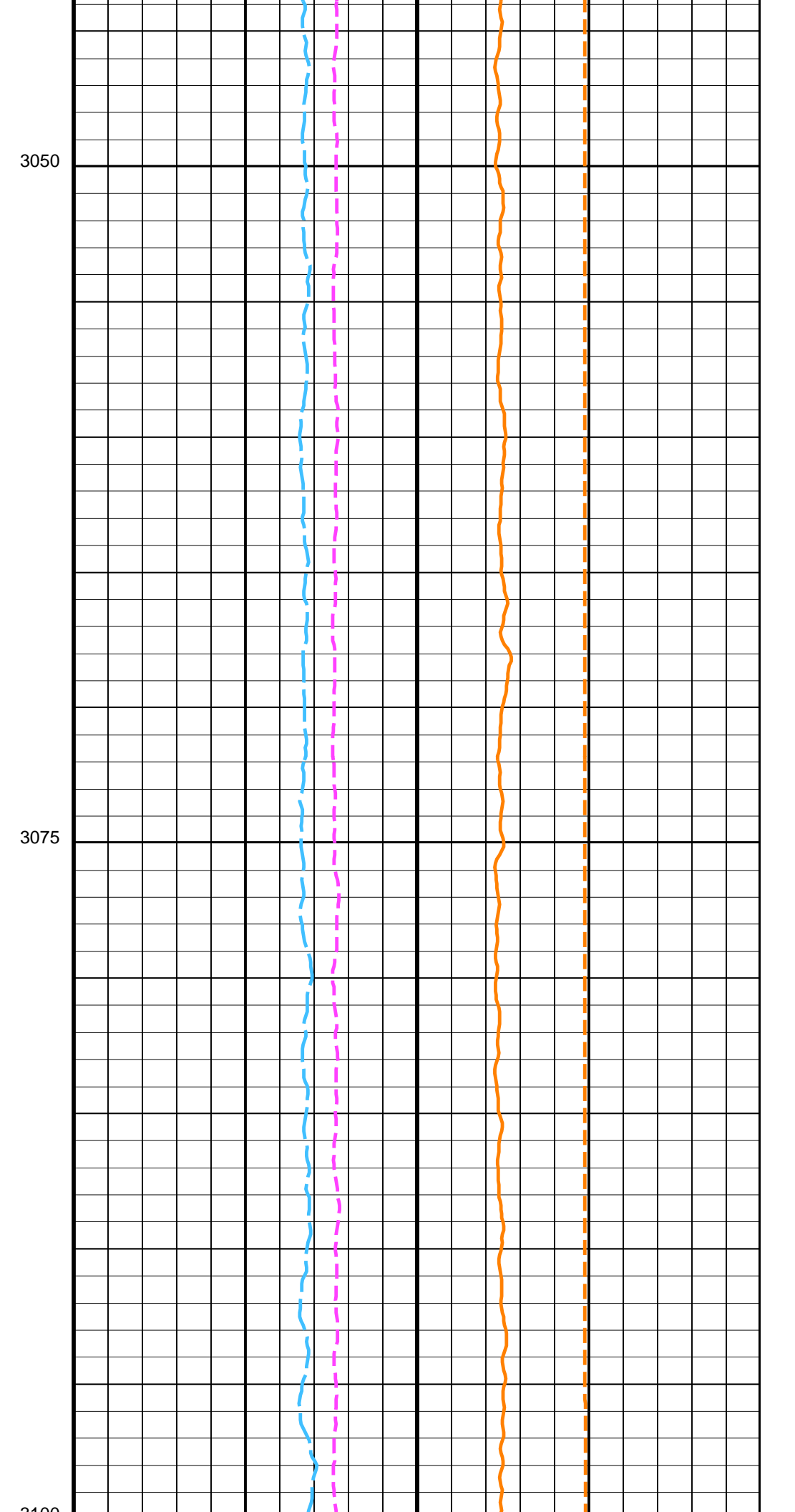
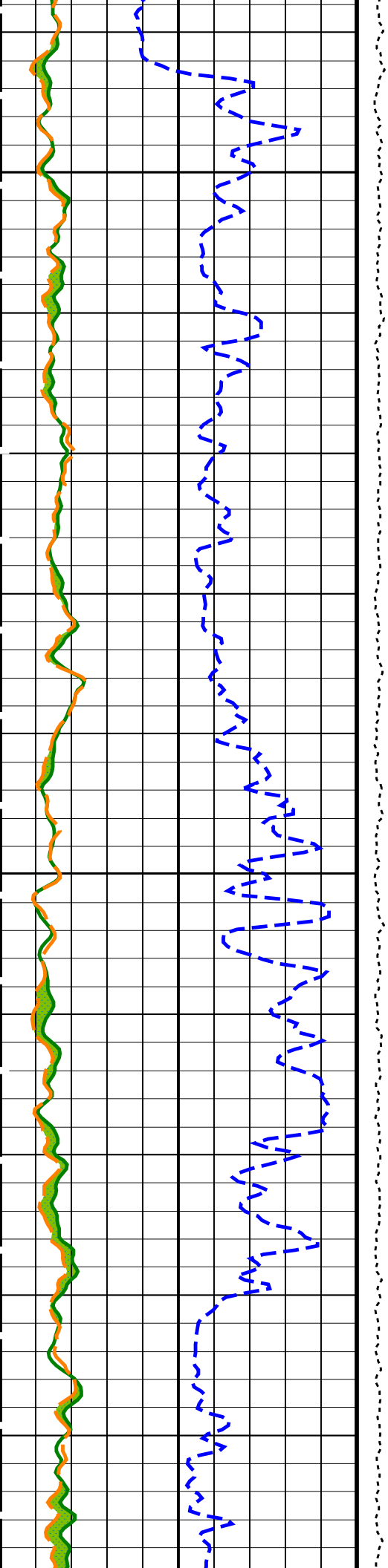


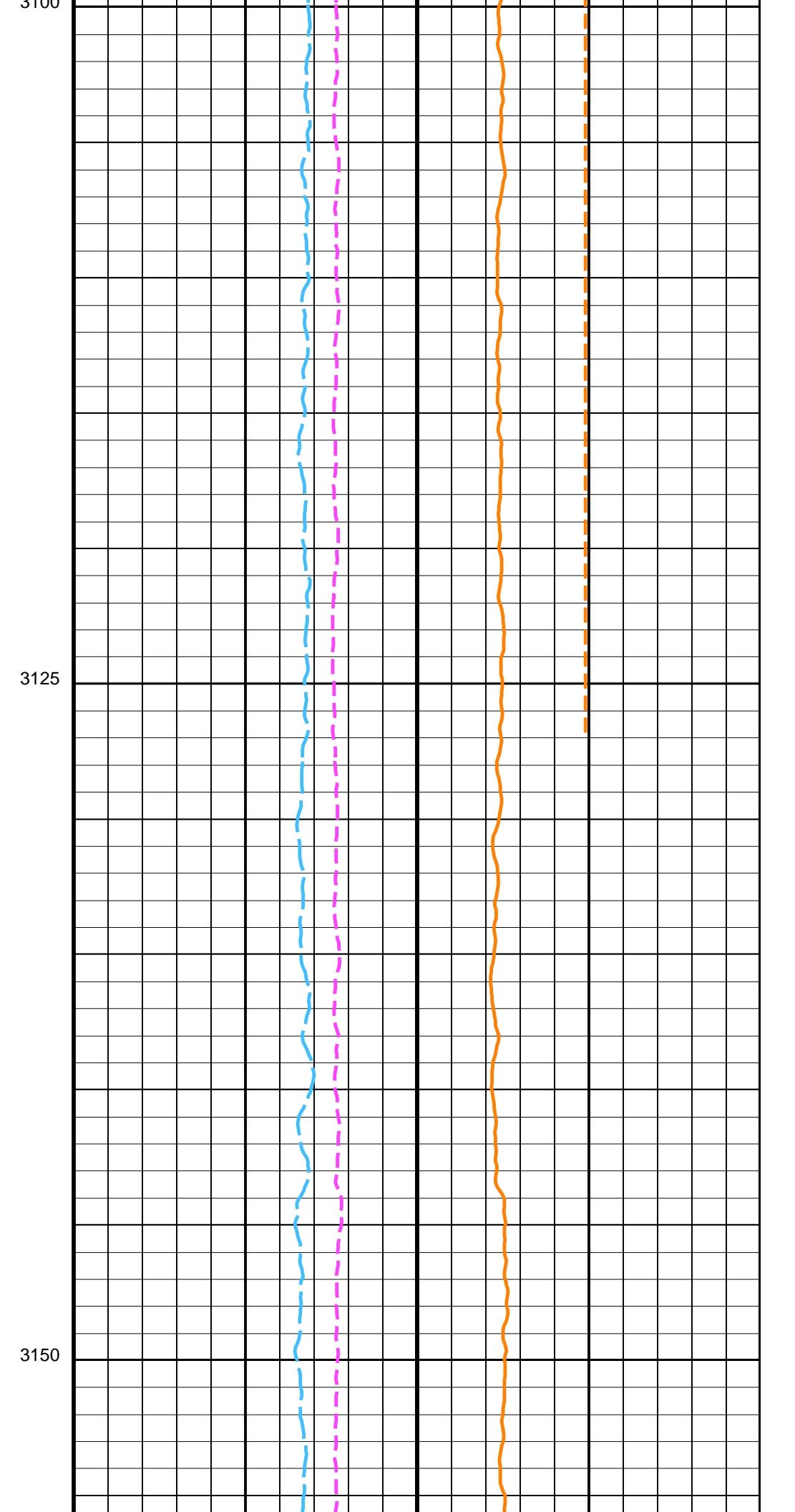
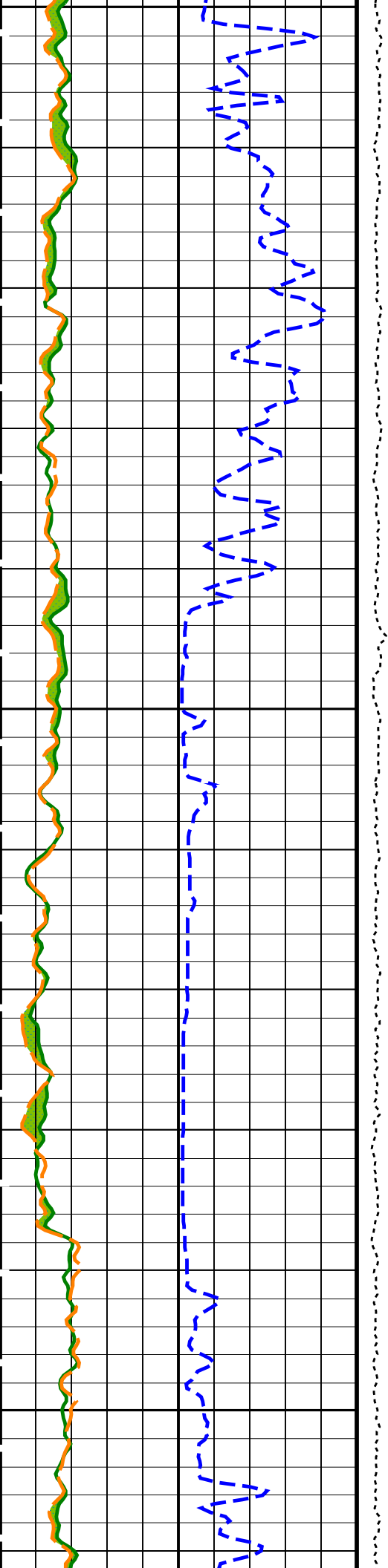
2950

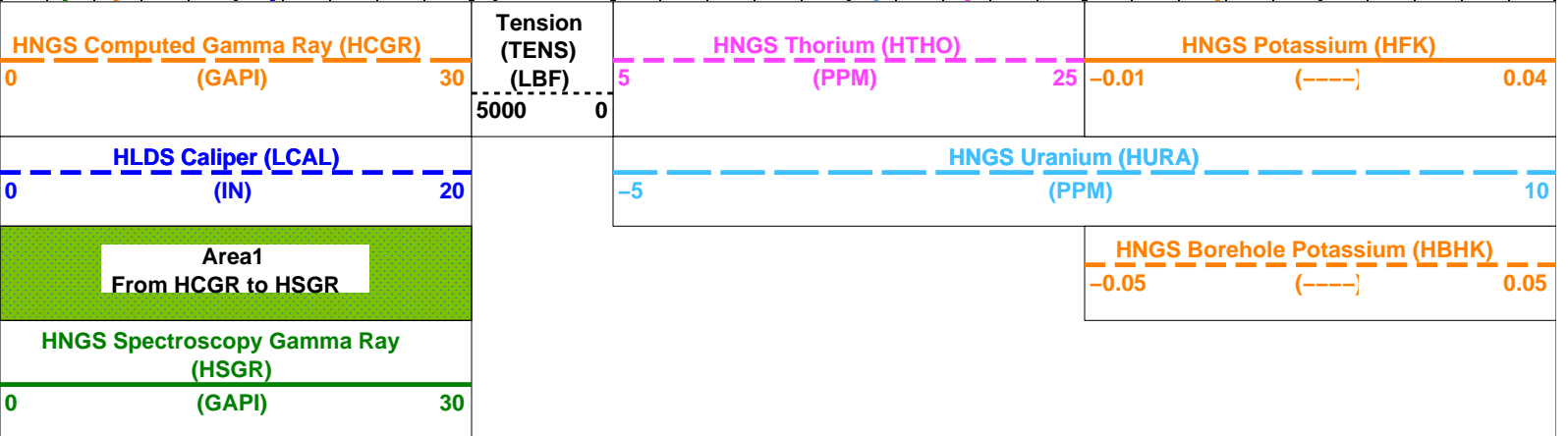
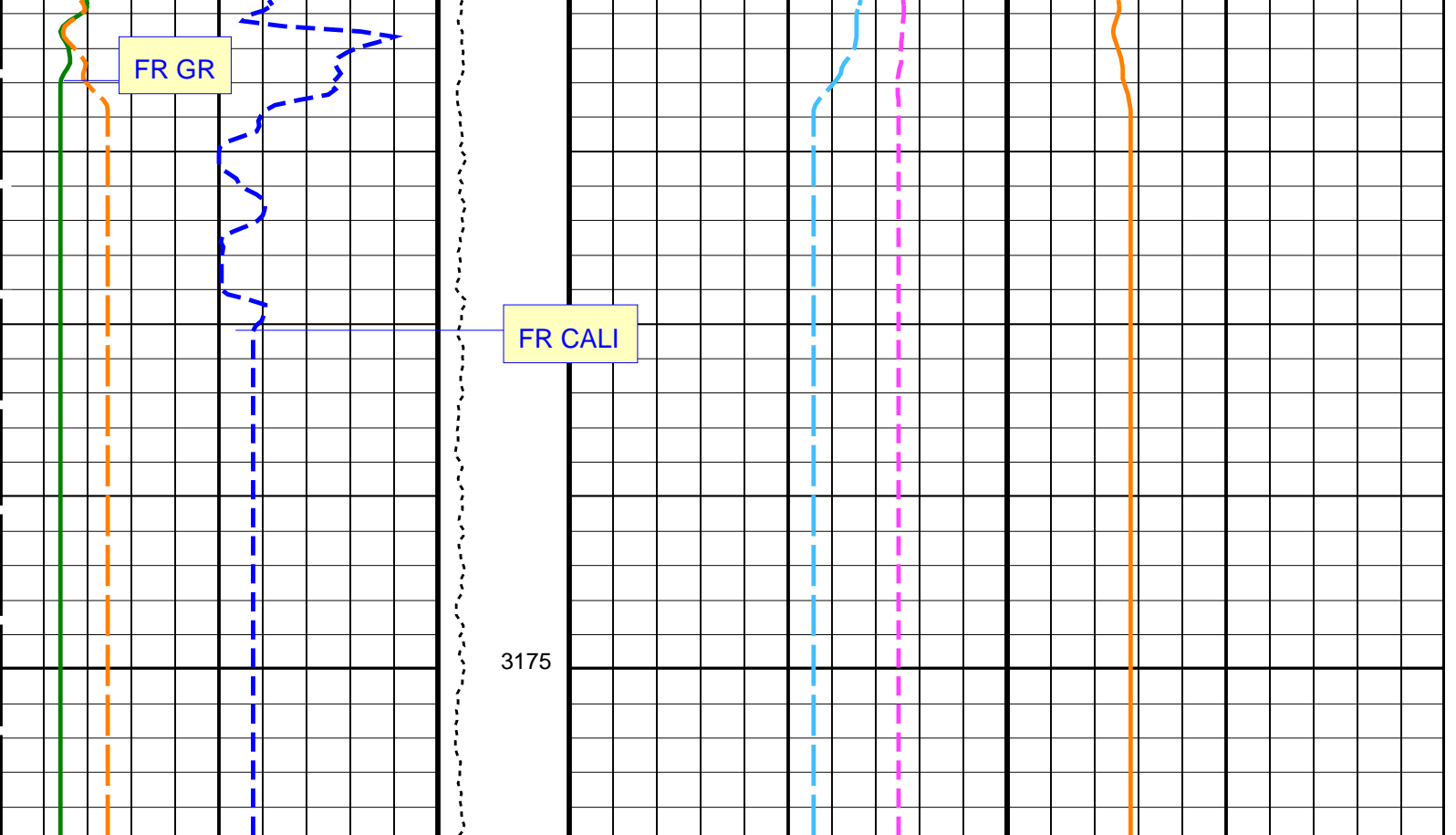
2975

Casing









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	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	-0.00138757
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
TRCS	Test Position	5025

TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.09596	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.08877	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	2.5	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 12-Aug-2010 21:36

OP System Version: 17C0-154

UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

Input DLIS Files

DEFAULT	UBI_MTT_LDEO_LDL_014LUP	FN:13	PRODUCER	12-Aug-2010 08:32	3177.5 M	2943.8 M
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Output DLIS Files

DEFAULT	UBI_MTT_LDEO_LDL_037PUP	FN:36	PRODUCER	12-Aug-2010 21:36		
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Second Pass
1:200 Scale

MAXIS Field Log

Input DLIS Files

DEFAULT	UBI_MTT_LDEO_LDL_015LUP	FN:14	PRODUCER	12-Aug-2010 09:57	3177.5 M	2943.9 M
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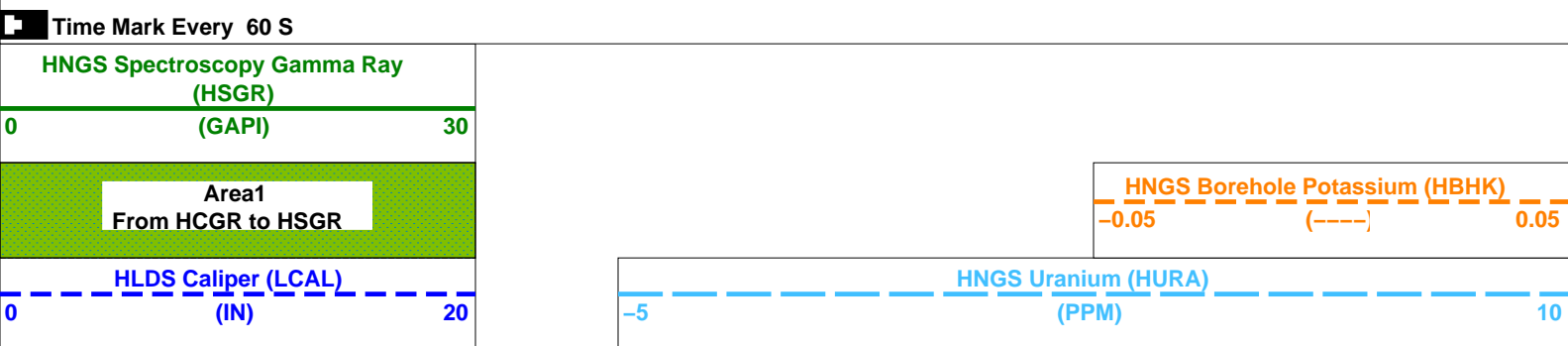
Output DLIS Files

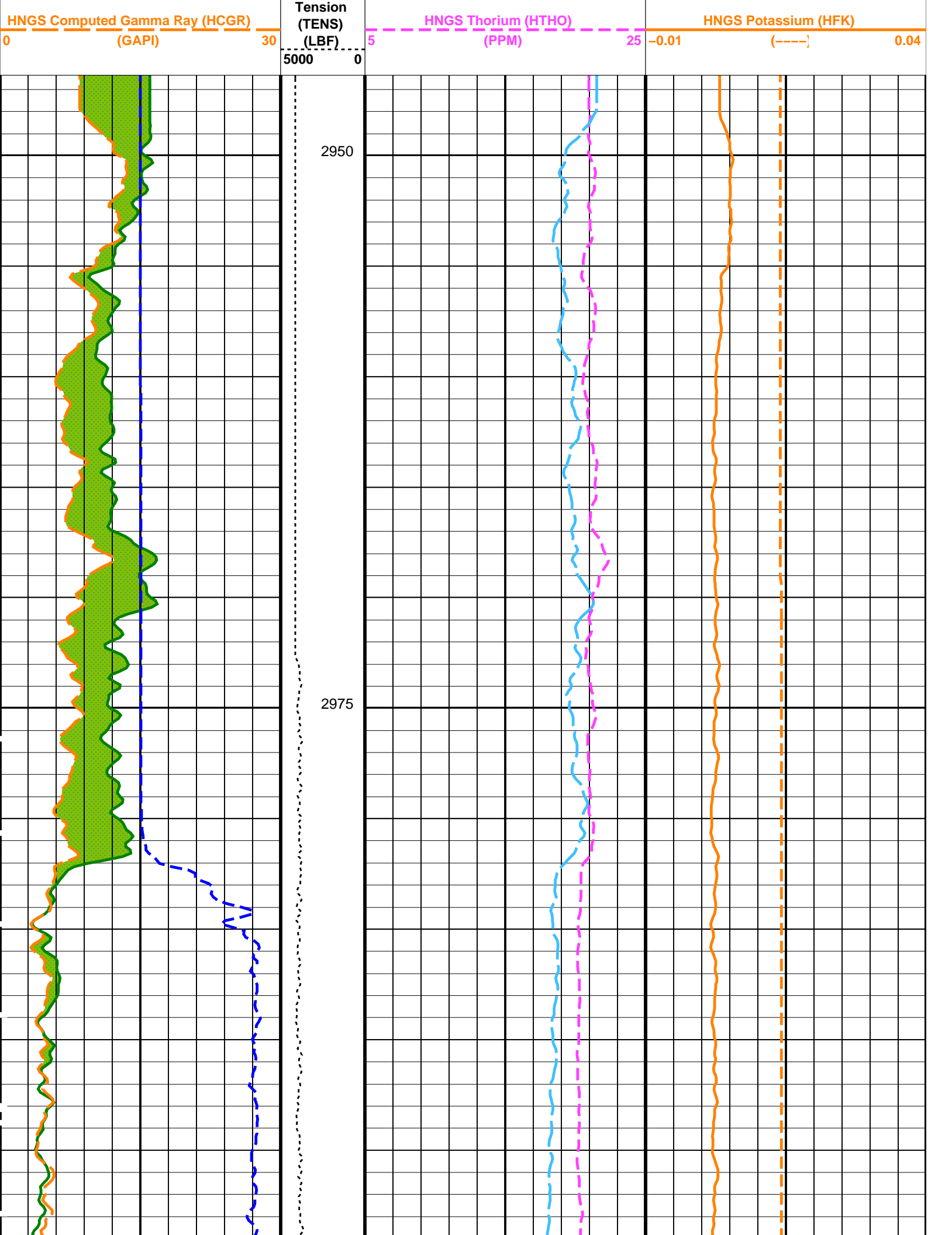
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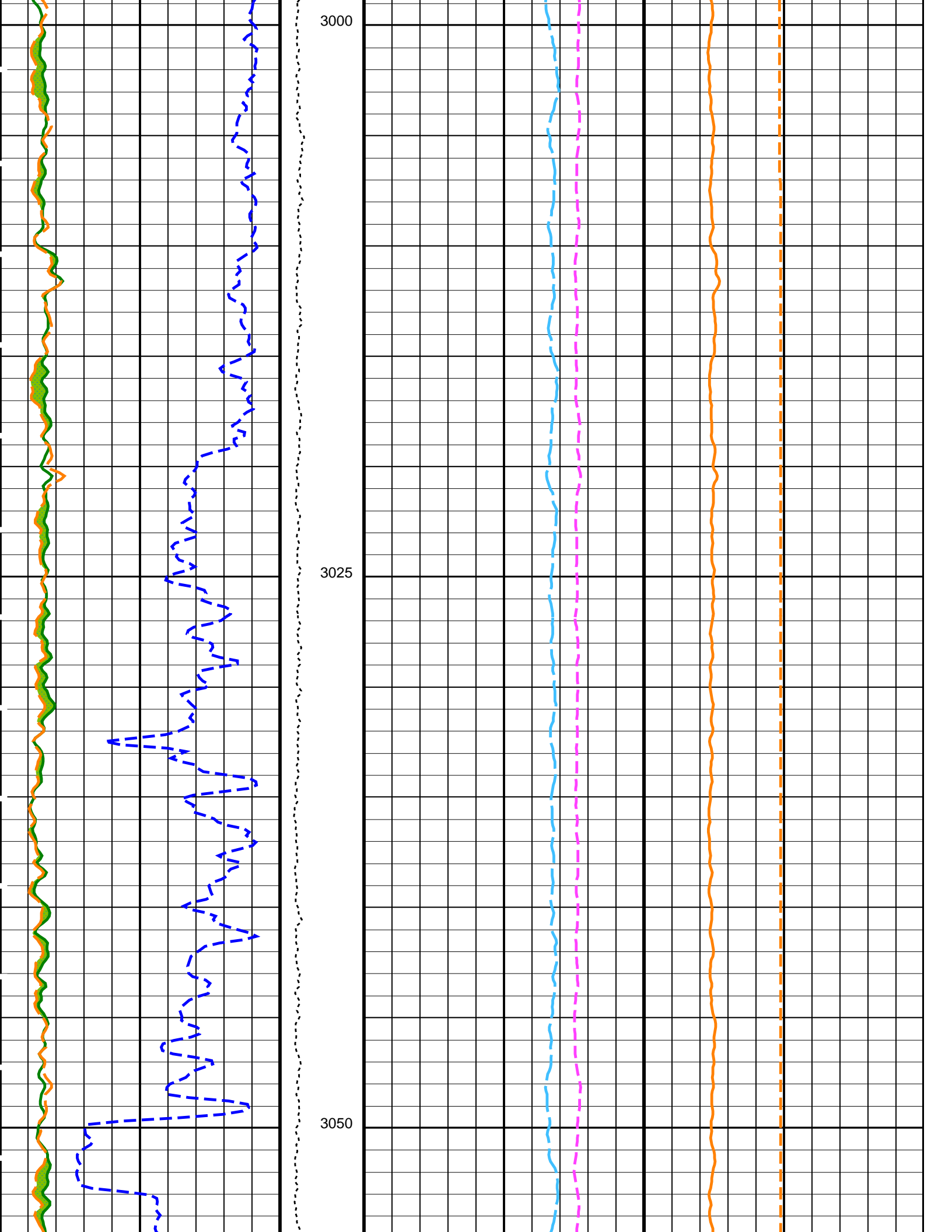
OP System Version: 17C0-154

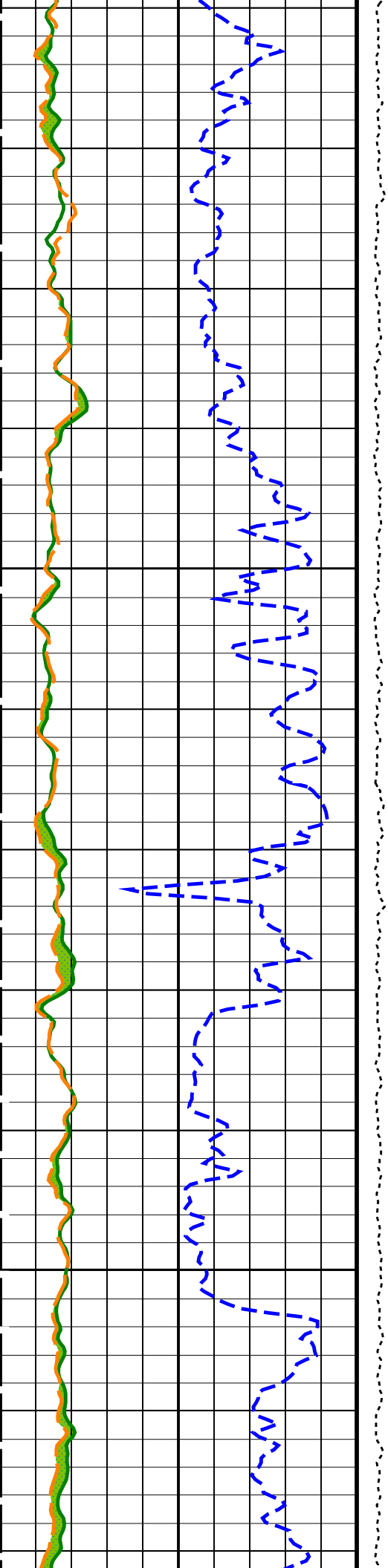
UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

PIP SUMMARY



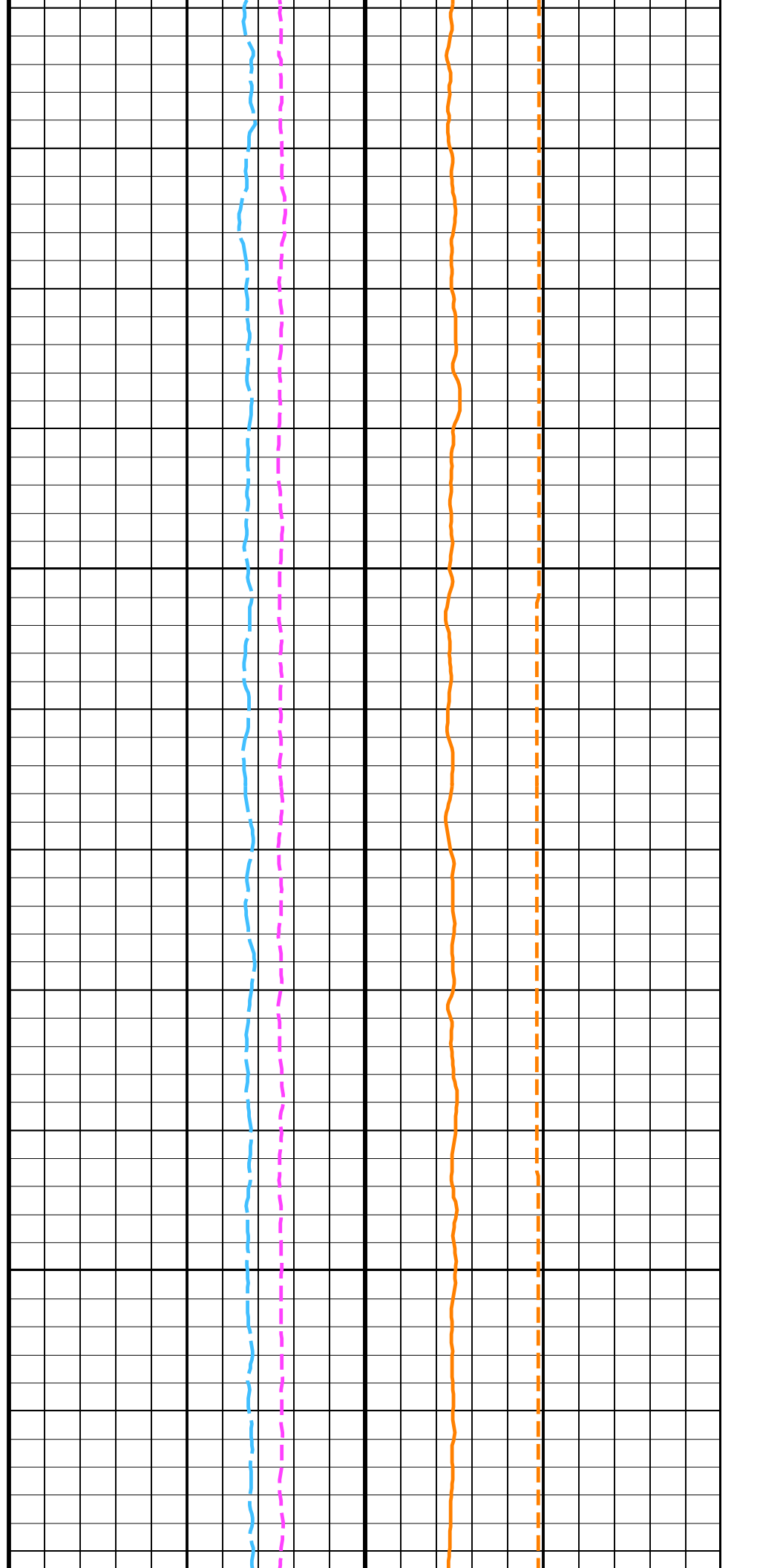


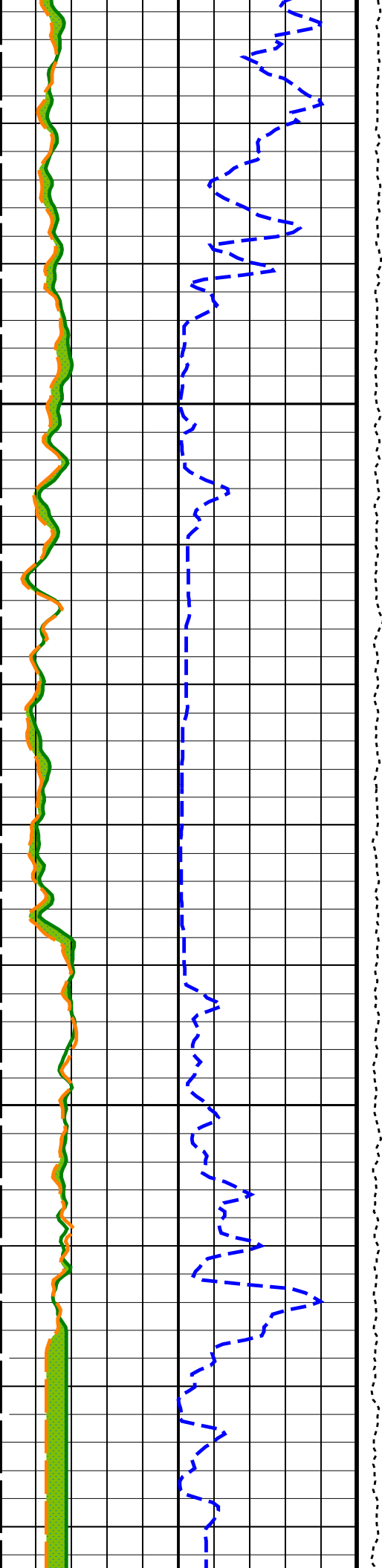




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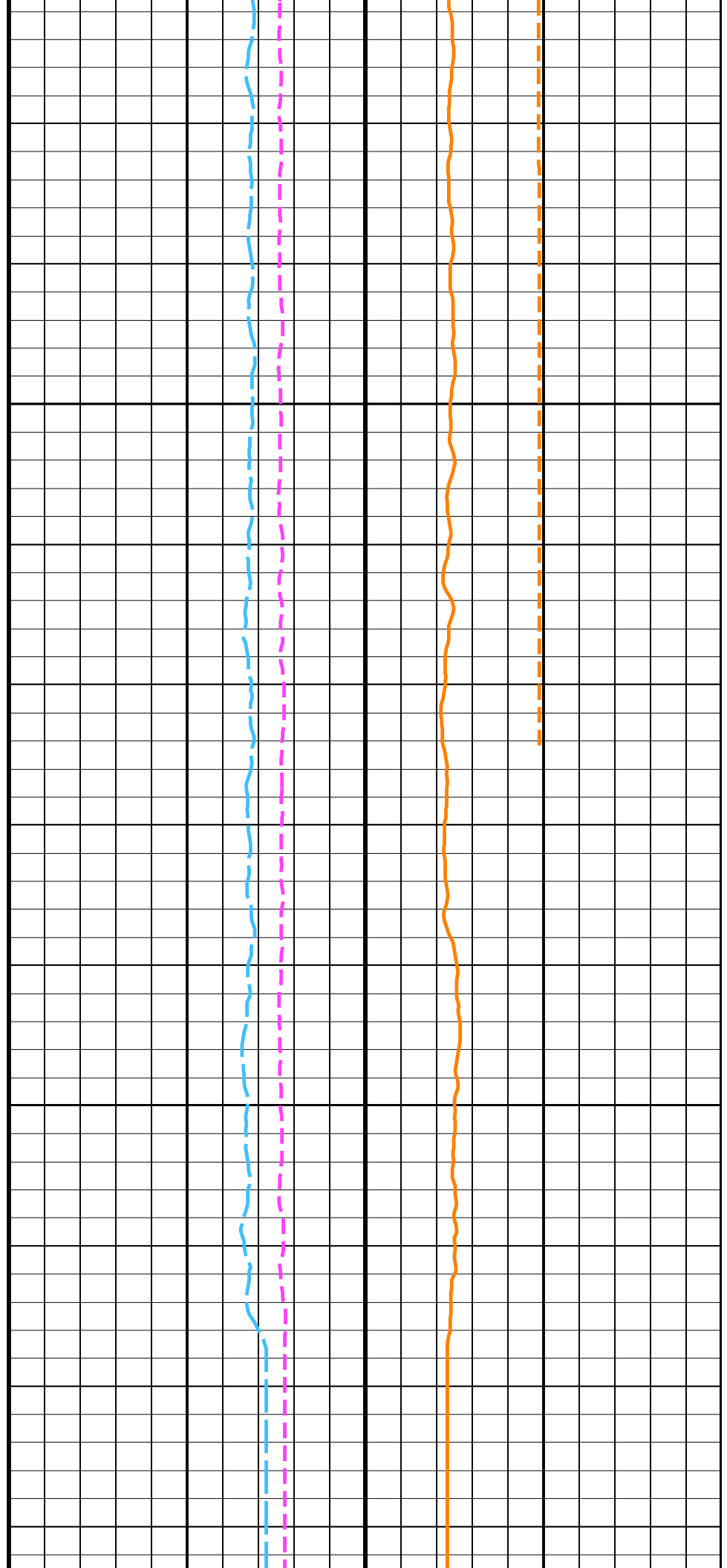
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3125

3150

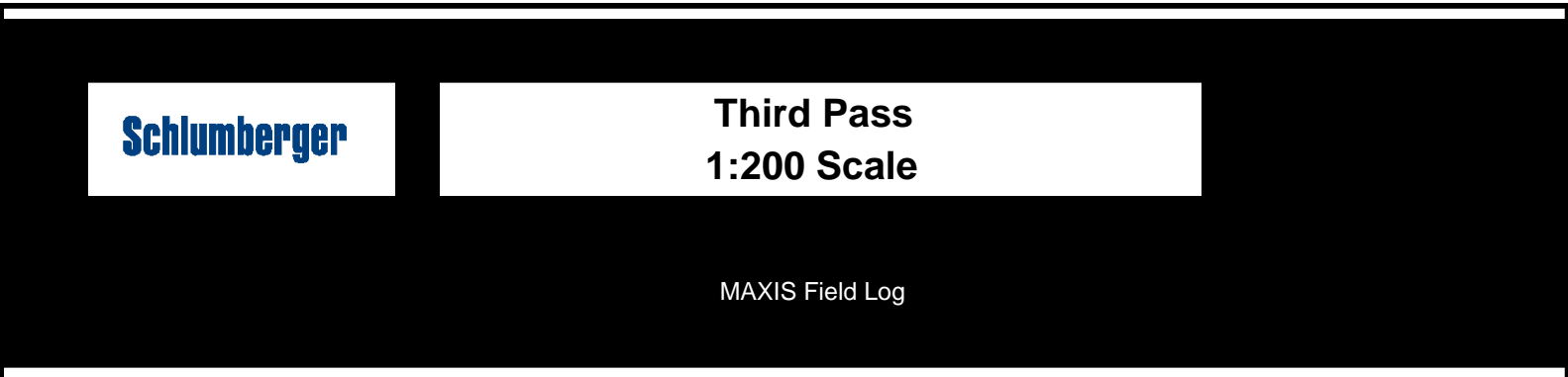


HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

Input DLIS Files						
DEFAULT	UBI_MTT_LDEO_LDL_015LUP	FN:14	PRODUCER	12-Aug-2010 09:57	3177.5 M	2943.9 M
Output DLIS Files						
DEFAULT	UBI_MTT_LDEO_LDL_039PUP	FN:38	PRODUCER	12-Aug-2010 21:40		



**Third Pass
1:200 Scale**



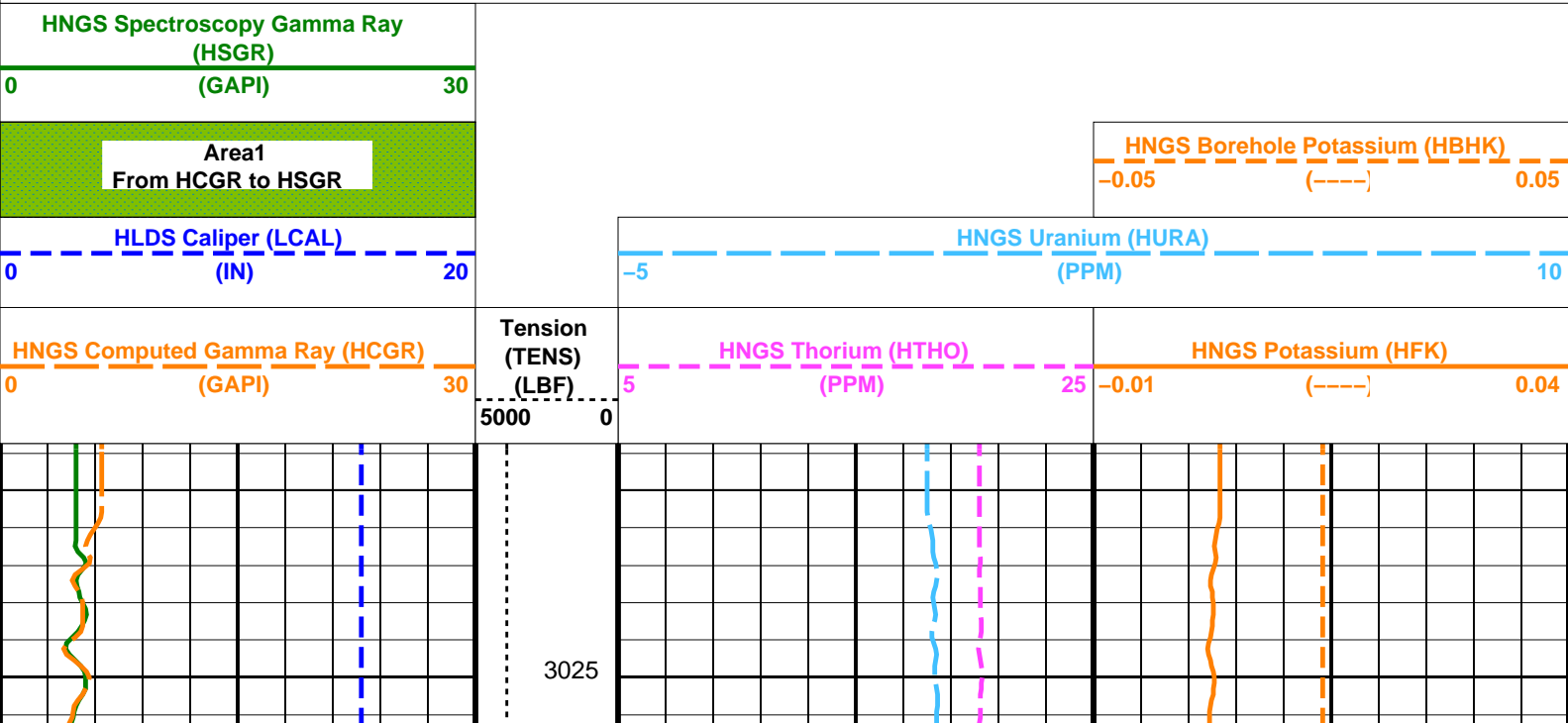
Input DLIS Files						
DEFAULT	UBI_MTT_LDEO_LDL_016LUP	FN:15	PRODUCER	12-Aug-2010 11:27	3177.5 M	3017.2 M
Output DLIS Files						
DEFAULT	UBI_MTT_LDEO_LDL_040PUP	FN:39	PRODUCER	12-Aug-2010 21:42	3179.1 M	3018.7 M

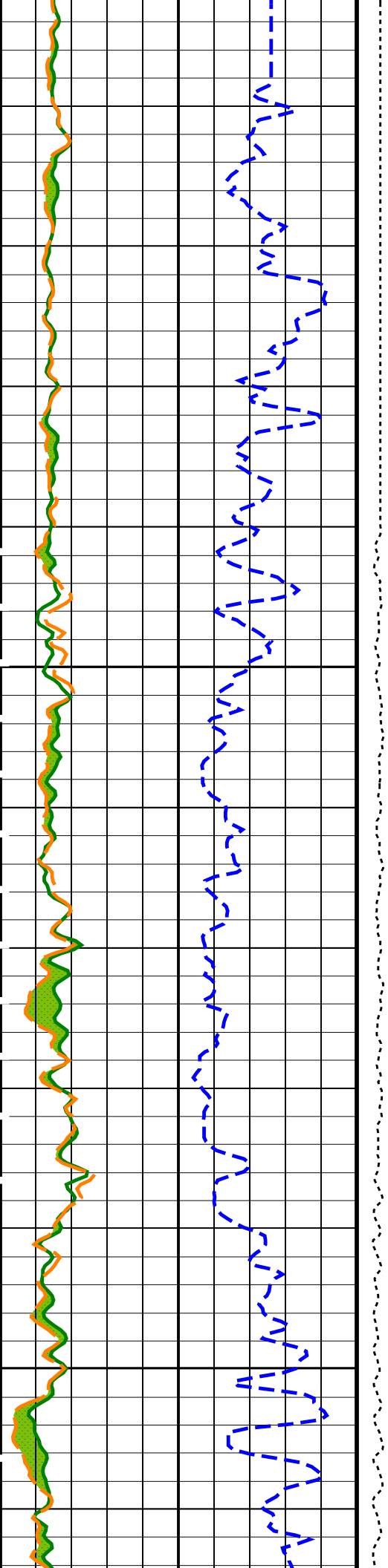
OP System Version: 17C0-154

UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

PIP SUMMARY

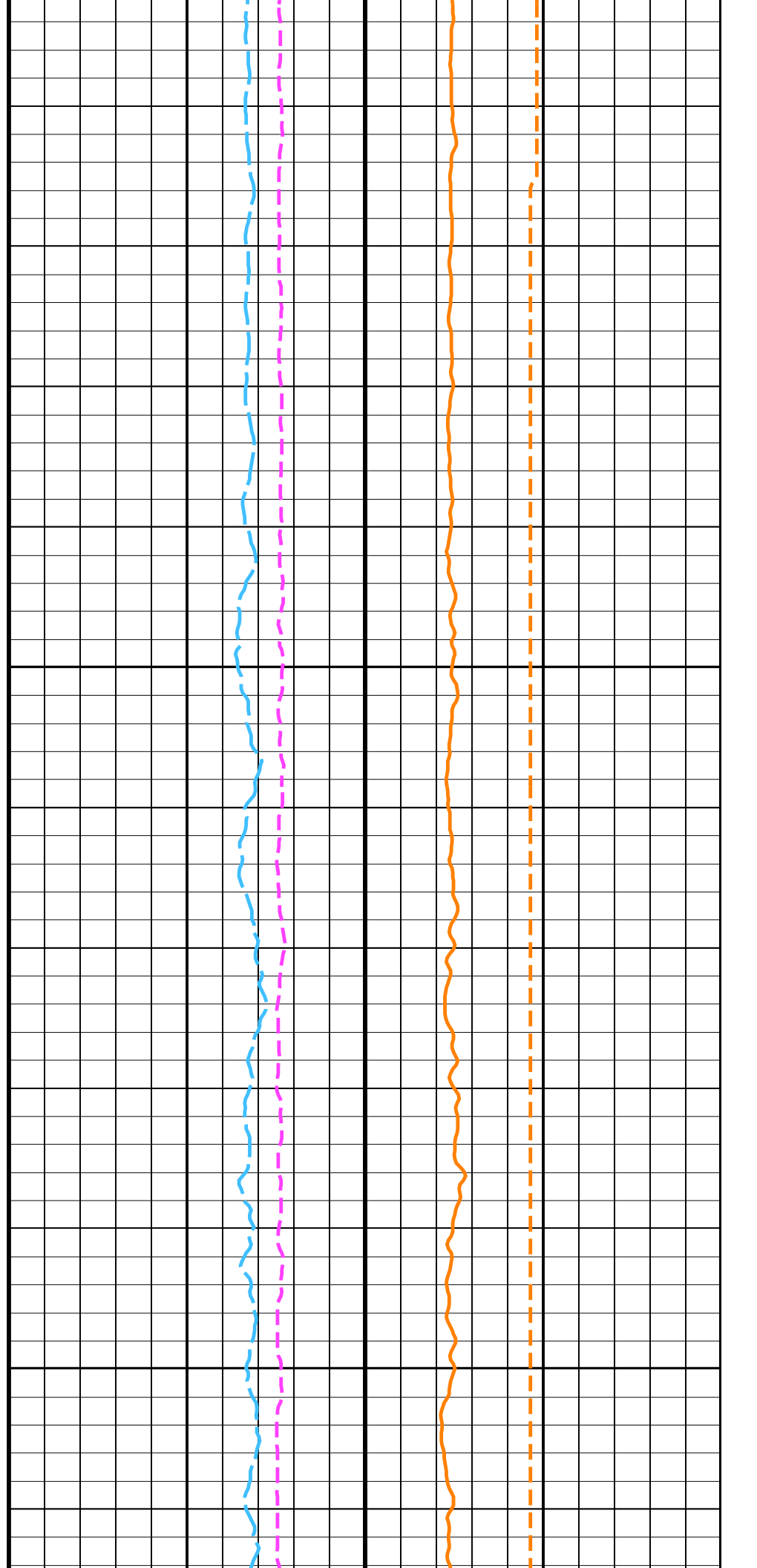
Time Mark Every 60 S

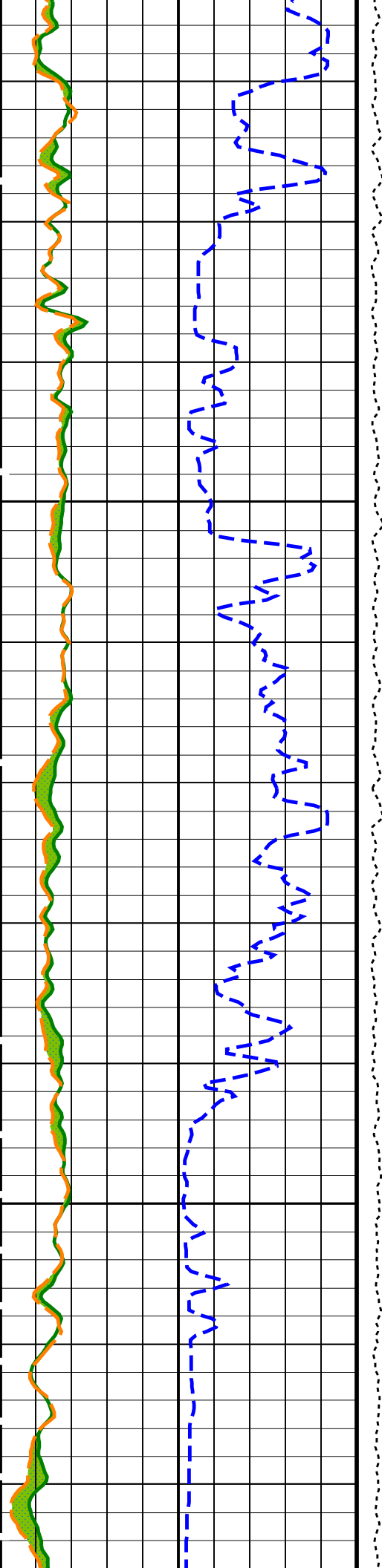




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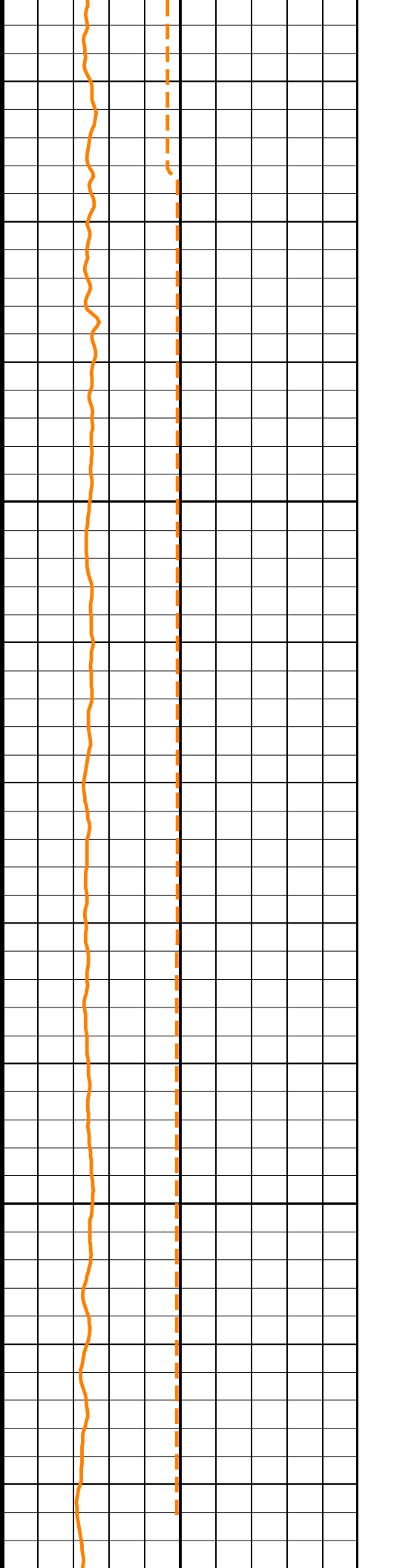
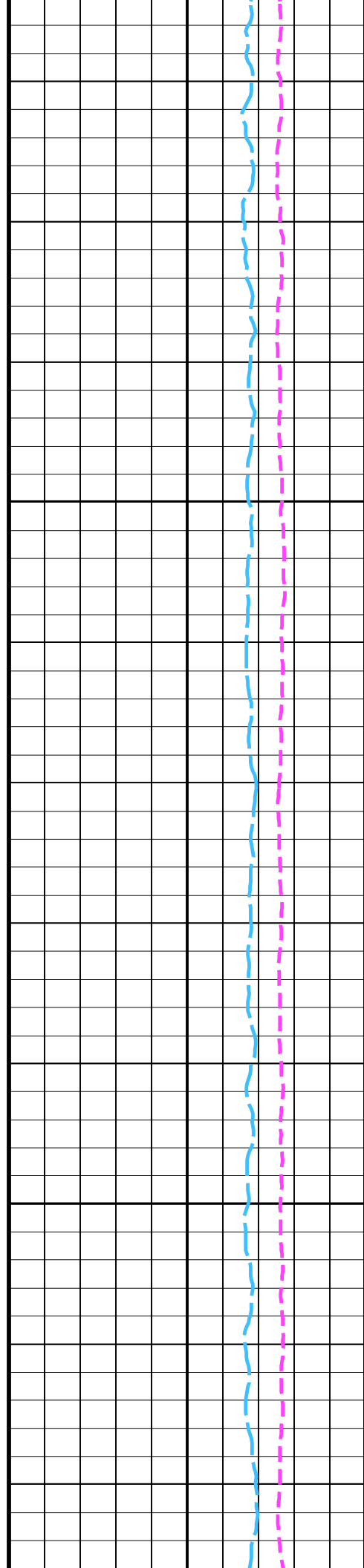
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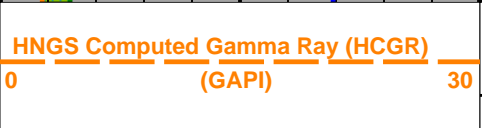
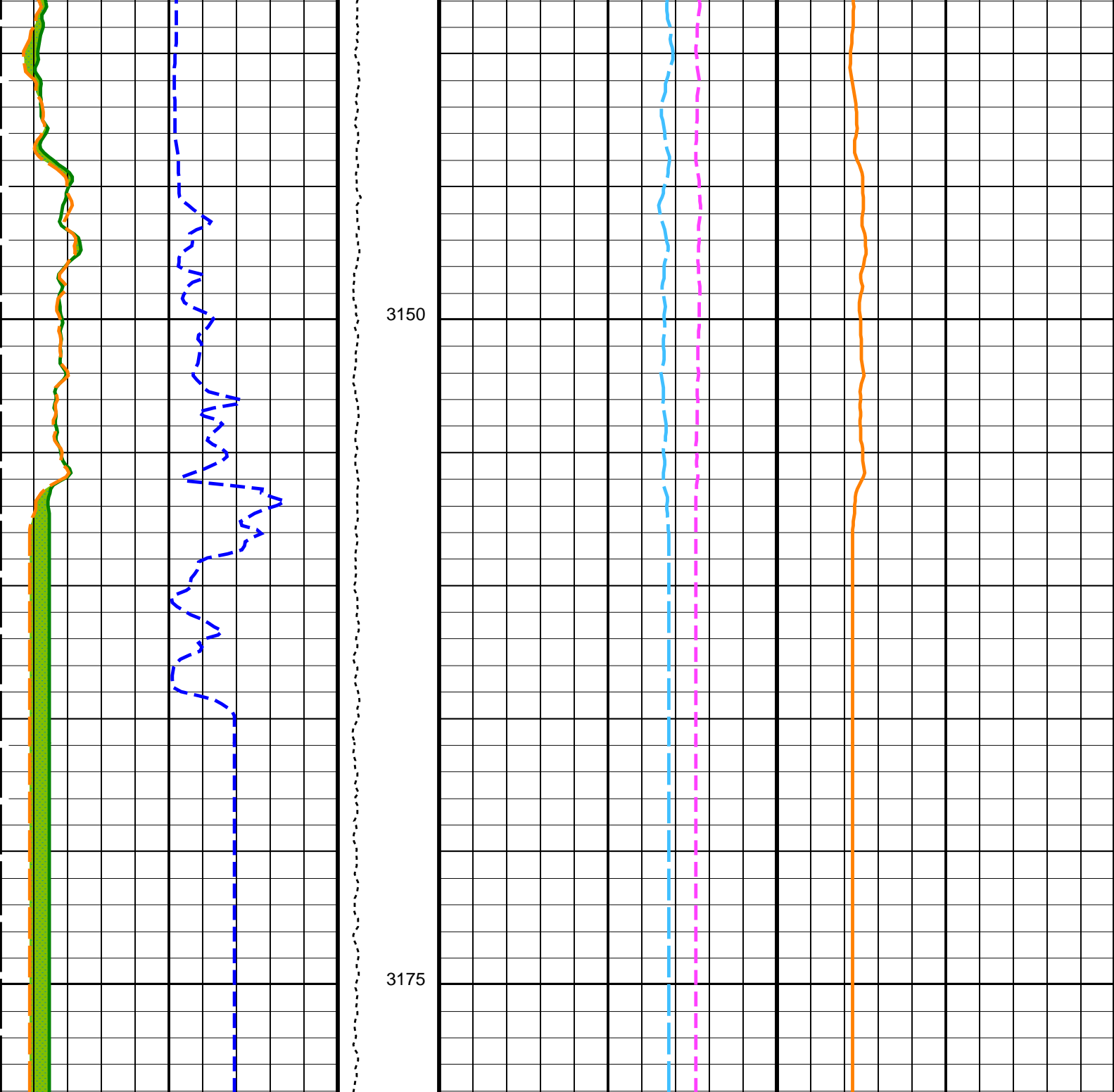




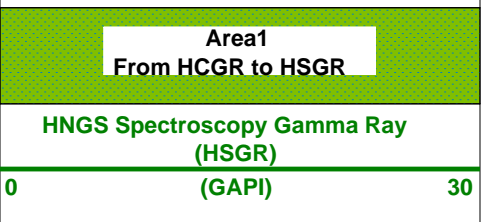
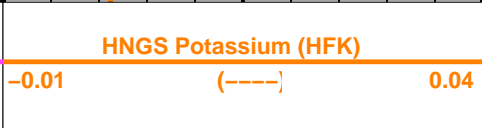
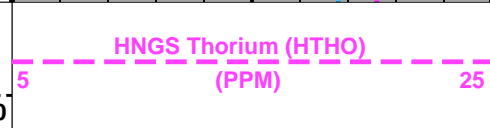
3100

3125





Tension (TENS) (LBF)
 5000 0



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	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	-0.00173482	
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	1.12002	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.0817	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.03	G/C3
DO	Depth Offset for Playback	1.5	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 12-Aug-2010 21:42

OP System Version: 17C0-154

UBI-D	SRPC-3971-Q1_2010_OP17	GPIT-A/B	SRPC-3971-Q1_2010_OP17
DTA-A	17C0-154	MTT_LDEO-A	17C0-154
HLDS	SPC-3961-OP17_NUCL	LDSC-B	SPC-3961-OP17_NUCL
HNGC-B	SPC-3961-OP17_NUCL	HNGS-BA	SPC-3961-OP17_NUCL
DTC-H	17C0-154	BSP	17C0-154

Input DLIS Files

DEFAULT	UBI_MTT_LDEO_LDL_016LUP	FN:15	PRODUCER	12-Aug-2010 11:27	3177.5 M	3017.2 M
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Output DLIS Files

DEFAULT	UBI_MTT_LDEO_LDL_040PUP	FN:39	PRODUCER	12-Aug-2010 21:42		
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Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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General Purpose Inclinometer Wellsite Calibration - CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY

Before: 12-Aug-2010 5:13

TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
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YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A

General Purpose Inclinometer Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY

Before: 12–Aug–2010 5:13

TEMPERATURE REFERENCE :	N/A	N/A	19	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	428	N/A	N/A	N/A	

Hostile Litho–Density Sonde Wellsite Calibration – Background Measurement

Master: 4–Jul–2010 23:45 Before: 12–Aug–2010 5:17 After: 12–Aug–2010 15:09

SS Cs Resolution Bkg	9.000	8.417	8.419	8.439	0.01980	1.800	%
LS Cs Resolution Bkg	9.000	8.549	8.563	8.556	-0.006703	1.800	%
LSW1 Background	100.0	75.11	72.89	71.83	-1.058	3.000	CPS
LSW2 Background	100.0	67.26	67.44	67.47	0.02760	3.000	CPS
LSW3 Background	200.0	151.3	153.4	151.4	-1.979	6.000	CPS
LSW4 Background	250.0	185.7	185.4	185.1	-0.2671	7.500	CPS
LSW5 Background	600.0	419.2	415.7	416.3	0.5545	18.00	CPS
SSW1 Background	100.0	72.57	72.63	70.79	-1.836	3.000	CPS
SSW2 Background	200.0	125.0	125.3	124.9	-0.3862	6.000	CPS
SSW3 Background	500.0	333.7	334.1	334.1	-0.04120	15.00	CPS
SSW4 Background	270.0	179.0	179.4	177.1	-2.313	8.100	CPS
SSW5 Background	200.0	130.7	128.2	128.8	0.5273	6.000	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Aluminum Measurement

Master: 4–Jul–2010 23:45

LSW1 Aluminum	600.0	548.9	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	809.7	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	983.2	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	493.5	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	453.0	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2290	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6553	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9517	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3989	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	532.0	N/A	N/A	N/A	N/A	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Lithology Measurement

Master: 4–Jul–2010 23:45

LSW1 Iron	400.0	375.7	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	658.3	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	874.6	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	453.3	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	419.6	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1714	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5518	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8758	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3679	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	477.8	N/A	N/A	N/A	N/A	CPS

Hostile Litho–Density Sonde Wellsite Calibration – Caliper Calibration

Before: 4–Jul–2010 3:13

HLDS Caliper Small Ring	12.00	N/A	13.61	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	17.11	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 3–Jul–2010 10:09 Before: 12–Aug–2010 5:19 After: 12–Aug–2010 15:10

Na 511 Peak Loc	40.00	39.38	39.58	39.62	0.04423	1.000	
Na 511 Peak Res	15.50	14.94	15.79	14.86	-0.9317	2.000	%
High Voltage	1150	1173	1152	1157	4.851	N/A	V
Na 1785 Peak Loc	142.6	141.5	142.5	142.6	0.1303	7.000	
Na 1785 Peak Res	8.500	8.736	7.294	7.672	0.3777	2.000	%
Temperature	15.50	23.93	20.45	19.71	-0.7413	N/A	DEGC
Na Count Rate	45.00	30.22	28.24	28.23	-0.006481	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 3–Jul–2010 10:09 Before: 12–Aug–2010 5:19 After: 12–Aug–2010 15:10

Na 511 Peak Loc	40.00	39.56	39.70	39.58	-0.1246	1.000	
Na 511 Peak Res	15.50	16.29	14.97	15.50	0.5229	2.000	%
High Voltage	1150	1097	1089	1090	0.6023	N/A	V
Na 1785 Peak Loc	142.6	141.9	142.3	141.3	-0.9653	7.000	
Na 1785 Peak Res	8.500	8.575	7.621	9.293	1.671	2.000	%
Temperature	15.50	24.35	20.88	21.54	0.6568	N/A	DEGC
Na Count Rate	45.00	30.12	28.16	28.11	-0.04325	8.000	CPS

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

Master: 3–Jul–2010 10:09 Before: 12–Aug–2010 5:19 After: 12–Aug–2010 15:10

Coincidence Count Rate Ratio	1.000	1.003	1.001	1.004	0.002971	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration

Master: 3-Jul-2010 10:09							
Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	211.4	---	---	---	---	
Th Peak Res	7.000	6.988	---	---	---	---	%
Background Count Rate	142.5	17.94	---	---	---	---	CPS
Gain Ratio	1.000	1.021	---	---	---	---	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration

Master: 3-Jul-2010 10:09							
Na 511 Peak Set Point	40.00	41.00	---	---	---	---	
Th Peak Loc	209.6	208.6	---	---	---	---	
Th Peak Res	7.000	6.911	---	---	---	---	%
Background Count Rate	142.5	18.39	---	---	---	---	CPS
Gain Ratio	1.000	1.003	---	---	---	---	

General Purpose Inclinator / Equipment Identification

Primary Equipment:	
GPIT Cartridge - AC	GPIC - AC
Auxiliary Equipment:	
GPIT Housing	GPIH - A

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS - D	35
Hostile Litho Density High Voltage	HLDV - D	51
Gamma Source Radioactive	GSR - Z	2397
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP - C	61
Hostile Litho Density High Voltage Housi	HEH - H	53

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		8.417	Master		8.549	Master		75.11
Before		8.419	Before		8.563	Before		72.89
After		8.439	After		8.556	After		71.83
	7.000 (Minimum) 9.000 (Nominal) 11.000 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.000 (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		67.26	Master		151.3	Master		185.7
Before		67.44	Before		153.4	Before		185.4
After		67.47	After		151.4	After		185.1
	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		419.2	Master		72.57	Master		125.0
Before		415.7	Before		72.63	Before		125.3
After		416.3	After		70.79	After		124.9
	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		333.7	Master		179.0	Master		130.7
Before		334.1	Before		179.4	Before		128.2
After		334.1	After		177.1	After		128.8
	280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)			150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)	

Master: 4-Jul-2010 23:45

Before: 12-Aug-2010 5:17

After: 12-Aug-2010 15:09

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			75.11	Master			67.26	Master			151.3
	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			185.7	Master			419.2	Master			8.549
	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			72.57	Master			125.0	Master			333.7
	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			179.0	Master			130.7	Master			8.417
	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: 4-Jul-2010 23:45

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			548.9	Master			809.7	Master			983.2
	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			493.5	Master			453.0	Master			2290
	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			6553	Master			9517	Master			3989
	5800 (Minimum)	8000 (Nominal)	9300 (Maximum)		8300 (Minimum)	11600 (Nominal)	13500 (Maximum)		3500 (Minimum)	5000 (Nominal)	5800 (Maximum)
Phase	SSW5 Aluminum CPS		Value								
Master			532.0								
	470.0 (Minimum)	660.0 (Nominal)	770.0 (Maximum)								

Master: 4-Jul-2010 23:45

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			375.7	Master			658.3	Master			874.6
	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			453.3	Master			419.6	Master			1714
	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			5518	Master			8758	Master			3679
	4900 (Minimum)	6800 (Nominal)	7900 (Maximum)		7800 (Minimum)	10800 (Nominal)	12600 (Maximum)		3300 (Minimum)	4600 (Nominal)	5400 (Maximum)
Phase	SSW5 Iron CPS		Value								
Master			477.8								
	420.0 (Minimum)	580.0 (Nominal)	680.0 (Maximum)								

Master: 4-Jul-2010 23:45

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			1.039	Master			2.105	Master			0.5800

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		0.5065	Master		0.9934	Master		0.9957
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		1.008	Master		0.9853			
0.9900 (Minimum) 0.9940 (Nominal) 1.015 (Maximum)			0.9850 (Minimum) 0.9940 (Nominal) 1.010 (Maximum)					

Master: 4-Jul-2010 23:45

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	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		39.38	Master		14.94	Master		1173
Before		39.58	Before		15.79	Before		1152
After		39.62	After		14.86	After		1157
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		141.5	Master		8.736	Master		23.93
Before		142.5	Before		7.294	Before		20.45
After		142.6	After		7.672	After		19.71
135.0 (Minimum) 142.6 (Nominal) 150.3 (Maximum)			7.000 (Minimum) 8.500 (Nominal) 11.000 (Maximum)			-28.89 (Minimum) 15.50 (Nominal) 60.00 (Maximum)		
Phase	Na Count Rate CPS	Value						
Master		30.22						
Before		28.24						
After		28.23						
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								

Master: 3-Jul-2010 10:09

Before: 12-Aug-2010 5:19

After: 12-Aug-2010 15:10

Hostile Natural Gamma Ray Sonde Wellsite Calibration

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			16.29	Master			1097
Before			39.70	Before			14.97	Before			1089
After			39.58	After			15.50	After			1090
	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			141.9	Master			8.575	Master			24.35
Before			142.3	Before			7.621	Before			20.88
After			141.3	After			9.293	After			21.54
	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			30.12								
Before			28.16								
After			28.11								
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)								
Master: 3-Jul-2010 10:09			Before: 12-Aug-2010 5:19			After: 12-Aug-2010 15:10					

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		1.003	
Before		1.001	
After		1.004	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 3-Jul-2010 10:09			
Before: 12-Aug-2010 5:19			
After: 12-Aug-2010 15:10			

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			211.4	Master			6.988
	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			17.94	Master			1.021				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: 3-Jul-2010 10:09											

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			208.6	Master			6.911
	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			18.39	Master			1.003				
	10.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				
Master: 3-Jul-2010 10:09											

DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge
DTC-H Telemetry Cartridge

DTCH - A
DTCH - A

Auxiliary Equipment:
DTCH Telemetry Cartridge Housing

ECH - KC

Company: **Lamont Doherty**

Schlumberger

Well: **Expedition 327 Site U1362A**

Field: **Juan de Fuca**

Rig: **JOIDES Resolution**

Country: **USA**

Spectral GR (HNGS)