COMPANY: Lamont Doherty

WELL: ODP Leg 190, Site 1173A

FIELD: Nankai Trough

Country: Japan   Ocean: Pacific

Country: Japan
Field: Nankai Trough
Location: Rig: Joides Resolution
Well: ODP Leg 190, Site 1173A
Company: Lamont Doherty

Schlumberger

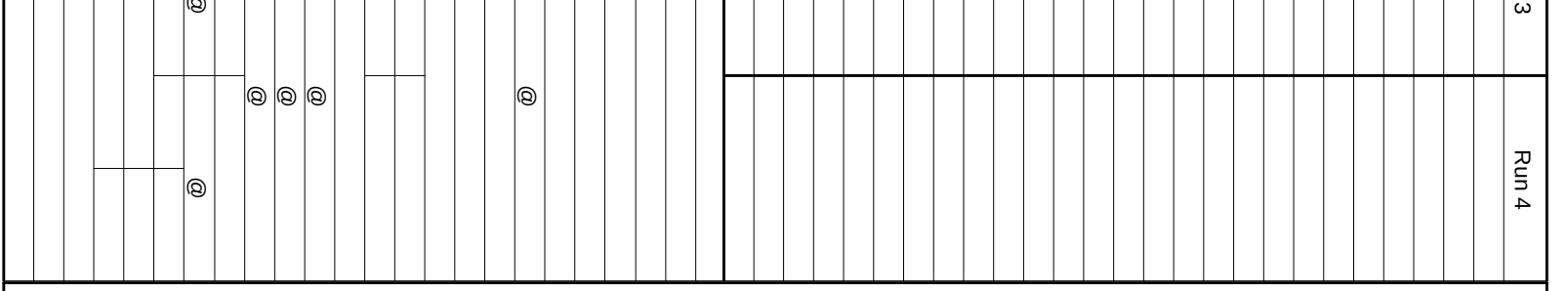
Natural Gamma-Ray

LOCATION			
Rig: Joides Resolution Nankai Trough		Elev.:	K.B. 11.3 m G.L. -4801.9 m D.F. 11 m
Permanent Datum:	MSL	Elev.:	
Log Measured From:	DES		above Perm. Datum
Drilling Measured From:	DES		
API Serial No.	SECTION	TOWNSHIP	RANGE

Logging Date		June-5-2000		
Run Number		1		
Depth Driller		5536.2 m		
Schlumberger Depth		5239.5 m		
Bottom Log Interval		5237 m		
Top Log Interval		4790.7 m		
Casing Driller Size @ Depth		0.000 in @ 4881 m		@
Casing Schlumberger		4877 m		
Bit Size		9.875 in		
Type Fluid In Hole		Sepiolite		
MUD Density	Viscosity	1.03 g/cm3		
MUD Fluid Loss	PH			
MUD Source Of Sample				
RM @ Measured Temperature		@		@
RMF @ Measured Temperature		@		@
RMC @ Measured Temperature		@		@
Source RMF	RMC			
RM @ MRT	RMF @ MRT	@	@	@ @
Maximum Recorded Temperatures				
Circulation Stopped	Time	June-5-2000		
Logger On Bottom	Time	June-5-2000	see log	
Unit Number	Location	99	Houston-ODP	
Recorded By		Steve Kittredge		
Witnessed By		Harold Tobin		

	Run 1	Run 2	Run

Logging Date				
Run Number				
Depth Driller				
Schlumberger Depth				
Bottom Log Interval				
Top Log Interval				
Casing Driller Size @ Depth		@		
Casing Schlumberger				
Bit Size				
Type Fluid In Hole				
MUD Density	Viscosity			
MUD Fluid Loss	PH			
MUD Source Of Sample				
RM @ Measured Temperature		@		
RMF @ Measured Temperature		@		
RMC @ Measured Temperature		@		
Source RMF	RMC			
RM @ MRT	RMF @ MRT	@	@	@
Maximum Recorded Temperatures				
Circulation Stopped	Time			
Logger On Bottom	Time			
Unit Number	Location			
Recorded By				
Witnessed By				



ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

OTHER SERVICES1	OTHER SERVICES2
OS1: MESTB/DSI/NGTC	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole Cored with APC/XCB	
Toolstring- DITE/HLDS/APS/HNGS.	
Log Measured in Meters Below Rig Floor (MBRF).	
Total Depth Logger- 5239.5 MBRF.	
Log is split in two sections due to ledge at 5140 MBRF.	
Bottom section does not overlap upper section.	
Tool set down at 5240 on bottom section.	
WHC used on all runs.	
Drill pipe set at 4881 MBRF for upper section	
Drill pipe set at 5126 MBRF for lower section.	
Had problems getting in and out of pipe	
in lower section.	
Did not log below 5239.5 MBRF with this tool.	

RUN 1

SERVICE ORDER #:
PROGRAM VERSION: 9C1-303
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1 RUN 2

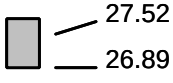
SURFACE EQUIPMENT

SFT-281 24
SFT-178 4722
GSR-U 135
WITM (DTS)-A

DOWNHOLE EQUIPMENT

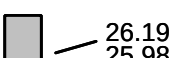
LEH-QT 28.69
LEH-QT

DTC-H CTEM
ECH-KC 9349 TelStatus
ToolStatu



27.80

HNGS-BA Upper_1
HNGS-BA-27 Lower_2



26.89

HNGS-BA 27
HNSH-BA 27

Lower_2 — 25.98

ILE-D — 24.39
ILE-D

Status
Minitron
Near TD
Near Arr
Near
Far Arr
Far
Far TD

APS-BA — 21.95
APS-BA 22
APH-AC 22
MNTR-F 4185

19.51
19.43
19.30
19.20

NPLC-B — 18.01
NPLC-B 79
NPH-B 82

Status — 16.78

HLDS — 15.56
GSR-Z 1846
HLDV-D 35
HLDS-D 35
HEH-H 35
HLDP-C 12

Caliper
SS LS Status — 11.51

DTA-A — 10.74
ECH-KE 8231
DTA-A 8231

DIT-E — 9.52
DIC-EB 390
MIH-ZA 397
DIS-HB 433

SP — 3.15
Deep Ind — 2.90
Aux Meas SFL — 1.98
Med Ind — 1.83
Status HV DF
Tension — 0.00

TOOL ZERO

MAXIMUM STRING DIAMETER 3.88 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

Output DLIS Files

DEFAULT	DITE .021	FN:22	PRODUCER	05-Jun-2000 21:25	5239.5 M	5154.9 M
IPLT_CUST	DITE .021	FN:23	PRODUCER	05-Jun-2000 21:25	5239.5 M	5154.6 M

OP System Version: 9C1-303

MCM

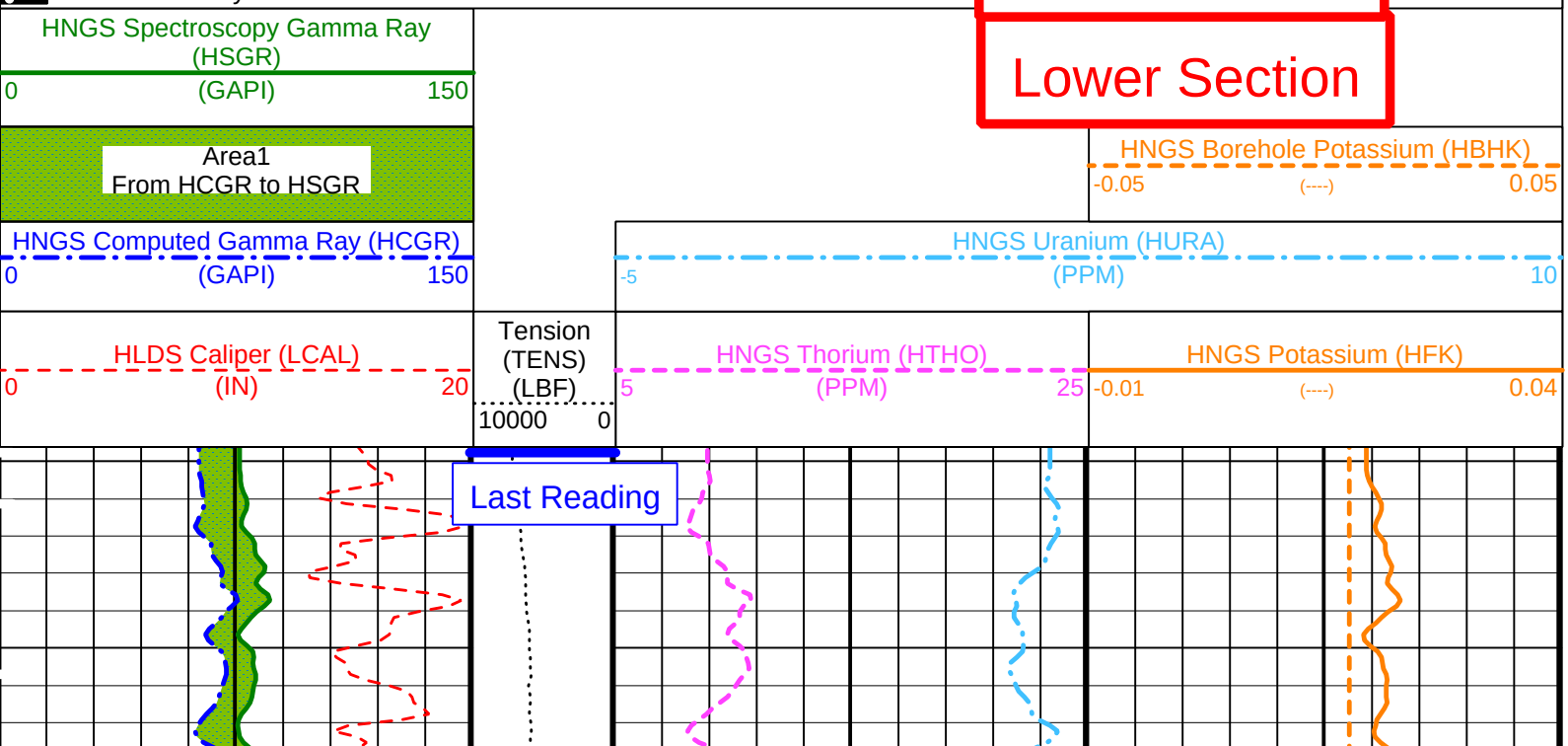
DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

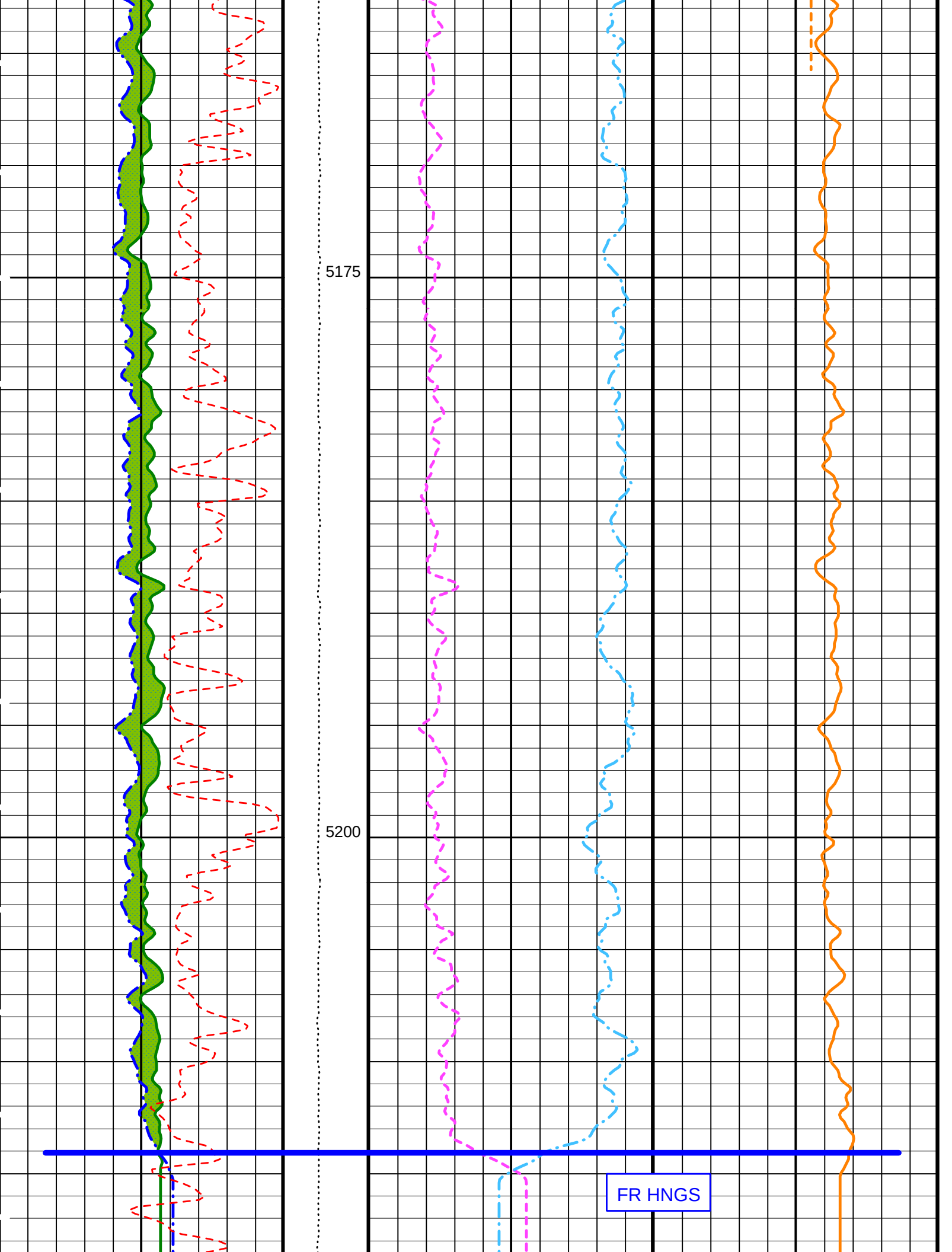
PIP SUMMARY

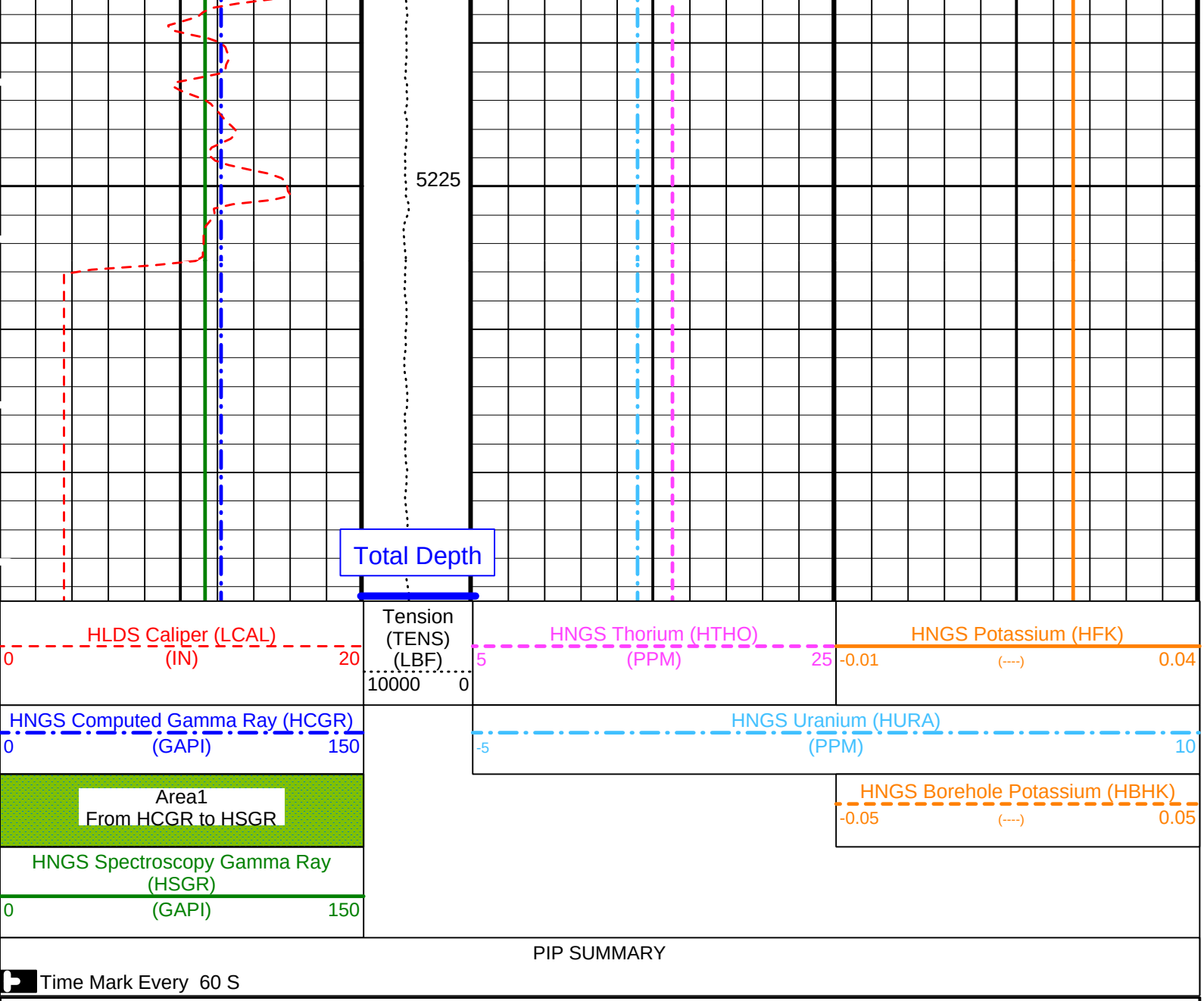
MAIN UP LOG

Lower Section

Time Mark Every 60 S




5175
5200
FR HNGS



Parameters

DLIS Name	Description	Value	
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	
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1	
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245	
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17	
BS	Bit Size	9.875	IN
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
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	7.03834	%
D1TC	HNGS Detector 1 Calibration Temperature	59.2921	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.324	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.10236	%
D2TC	HNGS Detector 2 Calibration Temperature	57.3948	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.925	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	1.03	G/C3
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
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	0.000509433	

HALF	HNGS Alpha Filter Length	60	IN
HATIM	HNGS Marquardt Accumulation Time	600	S
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO	
HSVN	HNGS Spectral Standards Version Number	9.54467e-036	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	26.8307	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986846	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	27.2589	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.984706	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.000253594	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.975294	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.951327	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 05-Jun-2000 21:25

OP System Version: 9C1-303

MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Output DLIS Files

DEFAULT	DITE .021	FN:22	PRODUCER	05-Jun-2000 21:25	
IPLT_CUST	DITE .021	FN:23	PRODUCER	05-Jun-2000 21:25	

Output DLIS Files

DEFAULT	DITE .020	FN:20	PRODUCER	05-Jun-2000 10:10	5145.8 M	4790.5 M
IPLT_CUST	DITE .020	FN:21	PRODUCER	05-Jun-2000 10:10	5145.8 M	4790.5 M

OP System Version: 9C1-303

MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Changed Parameter Summary

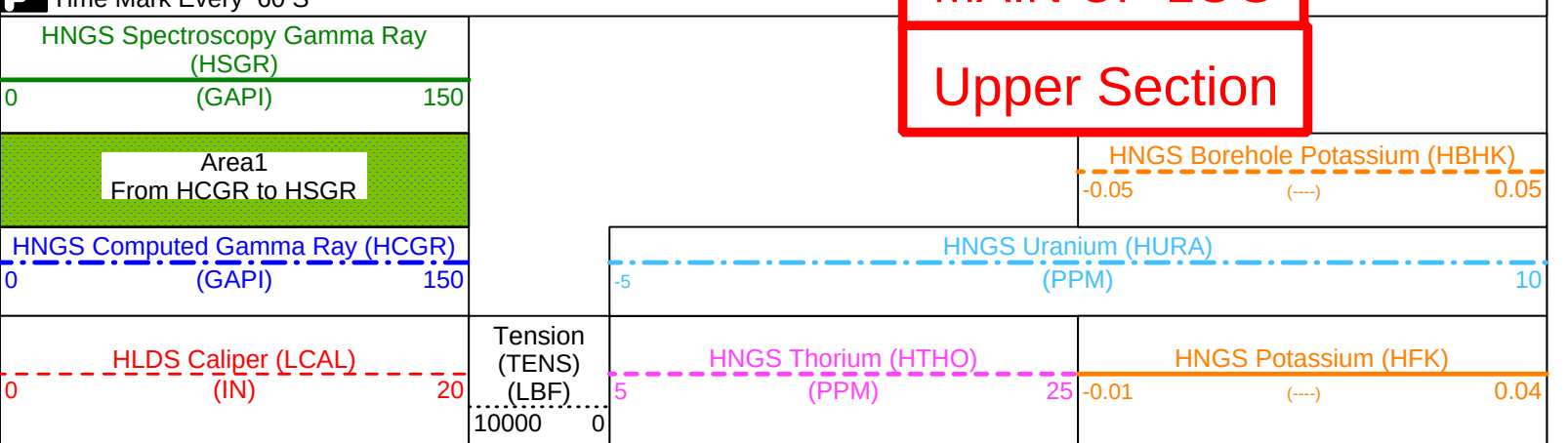
DLIS Name	New Value	Previous Value	Depth & Time
GCSE	BS		4879.5 11:15:21

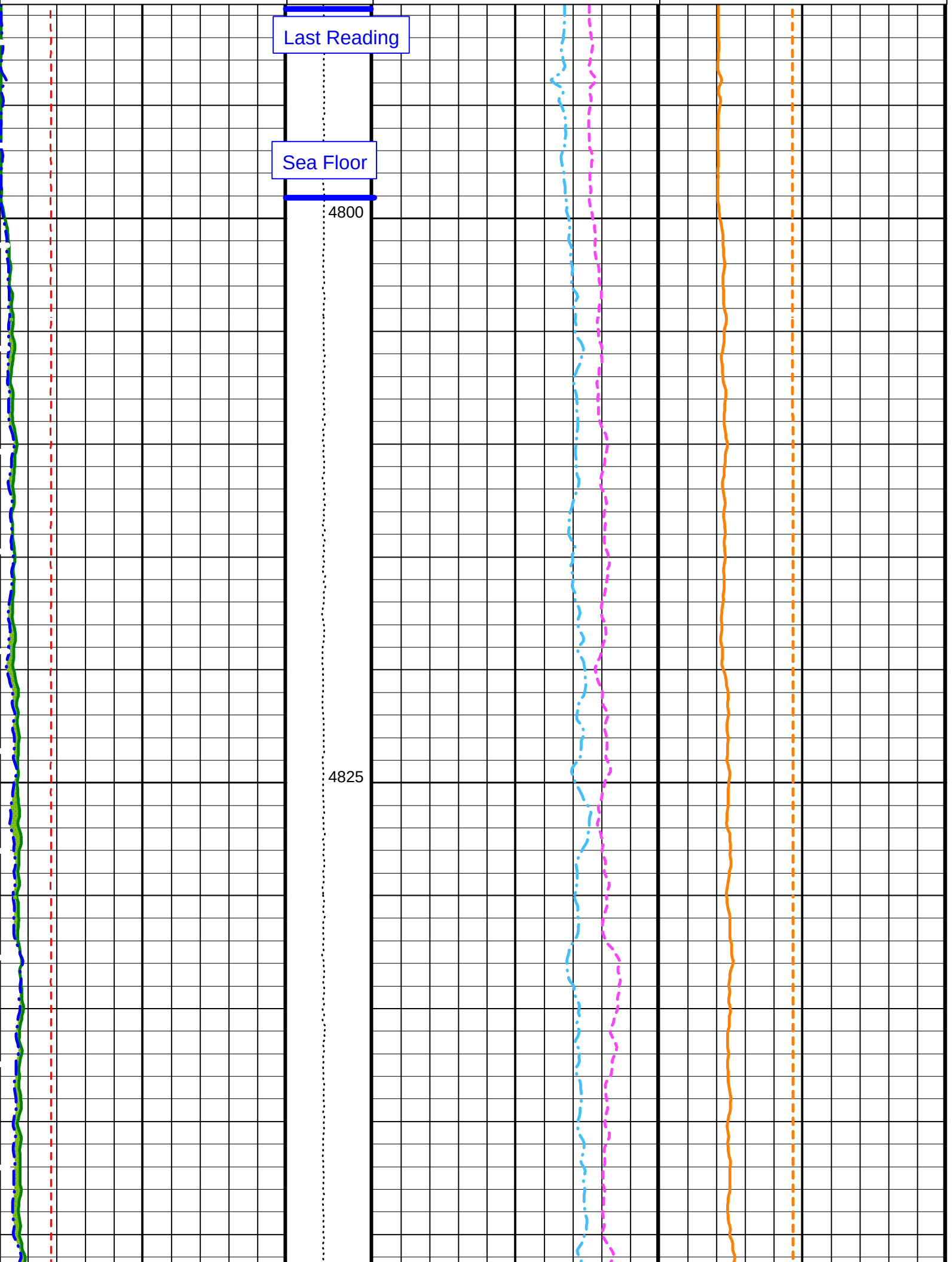
PIP SUMMARY

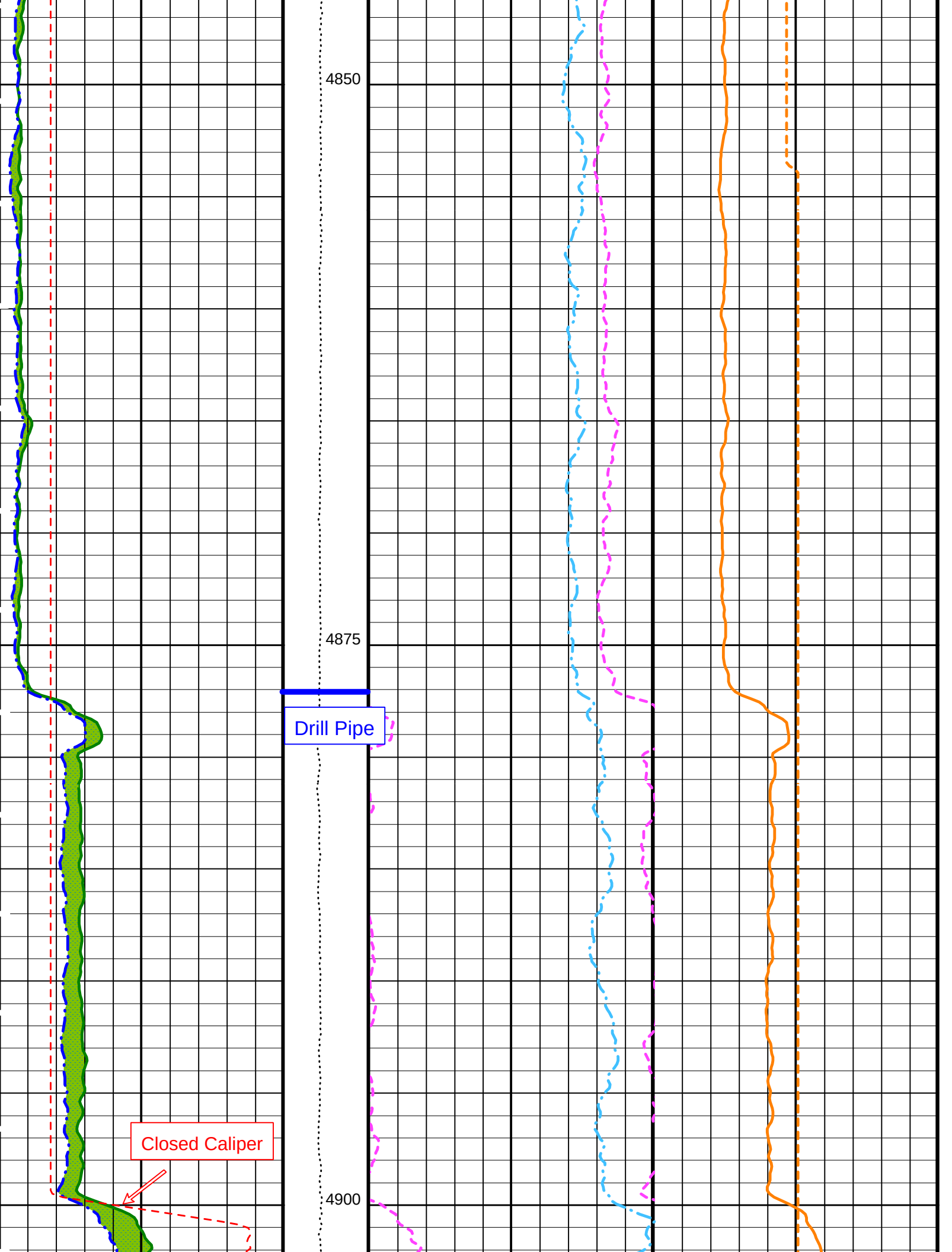
Time Mark Every 60 S

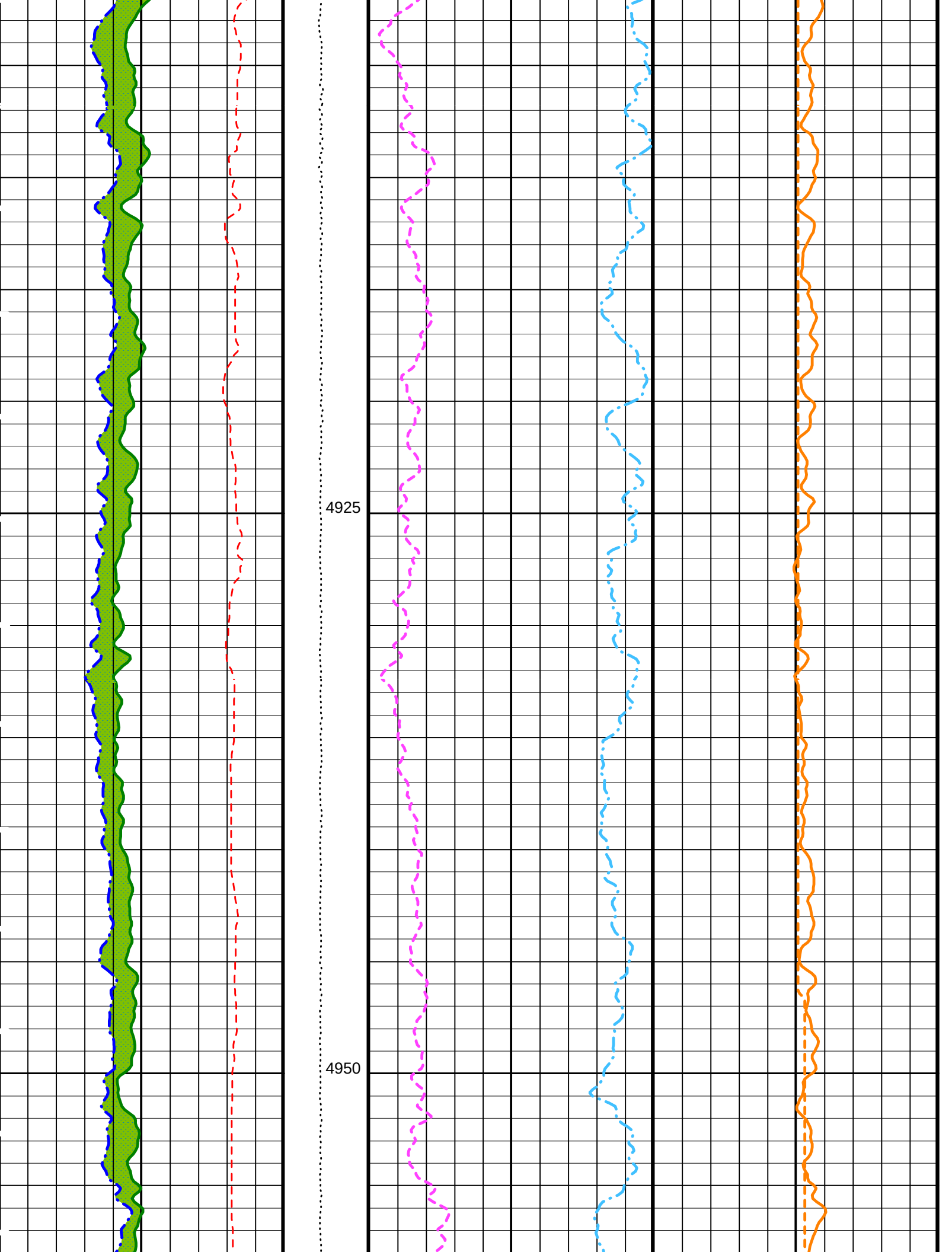
MAIN UP LOG

Upper Section




Last Reading
Sea Floor
4800
4825


4850
4875
Drill Pipe
Closed Caliper
4900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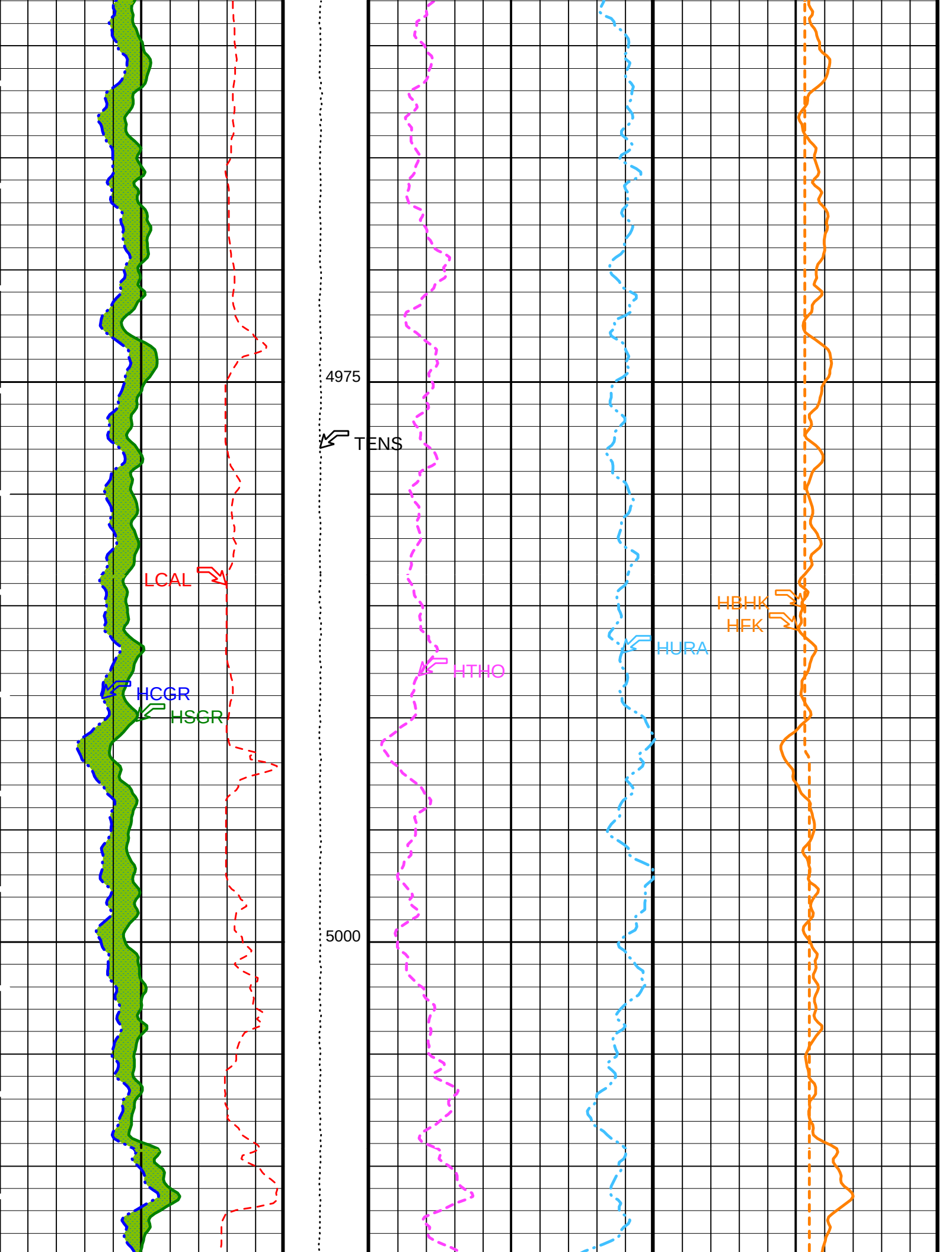
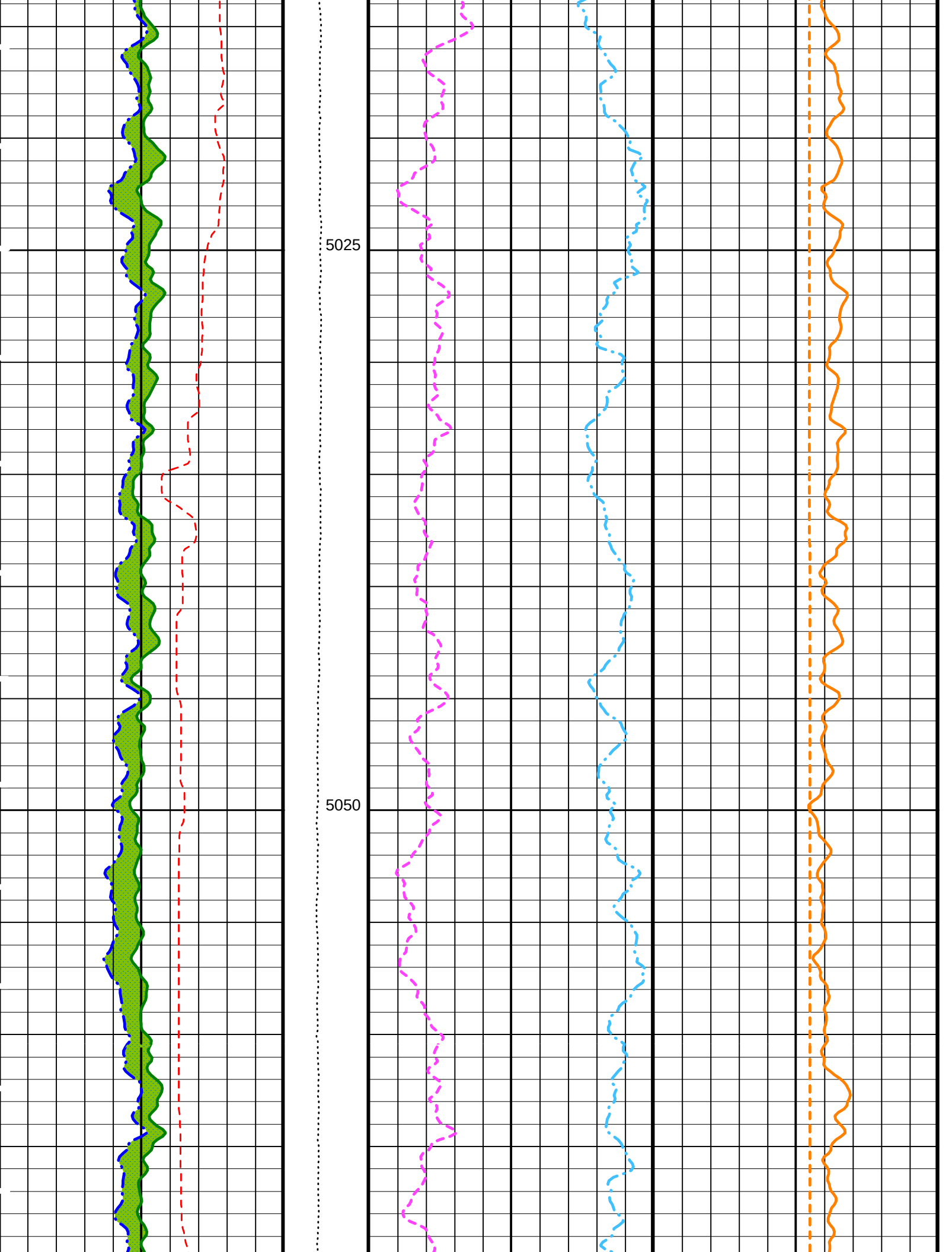
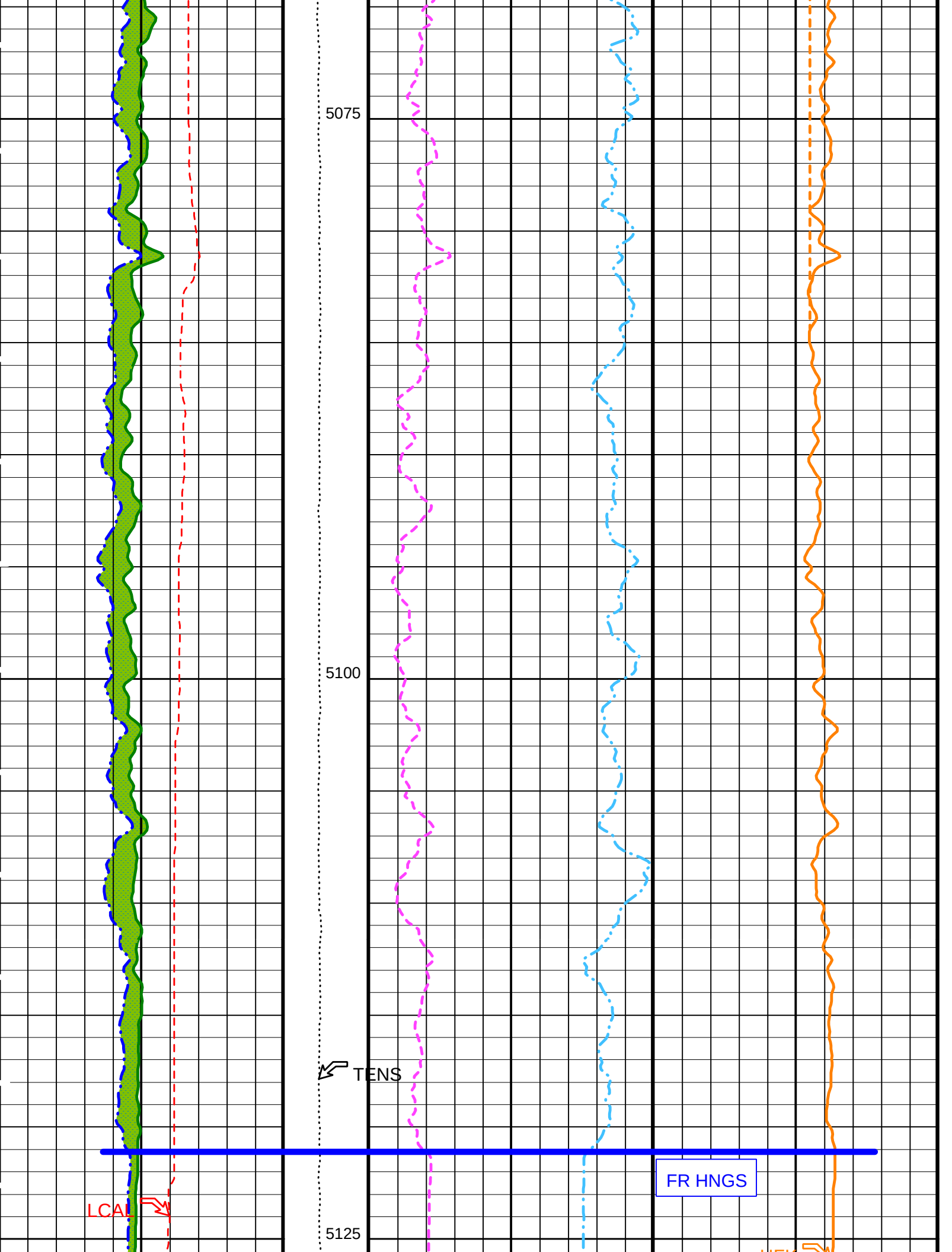
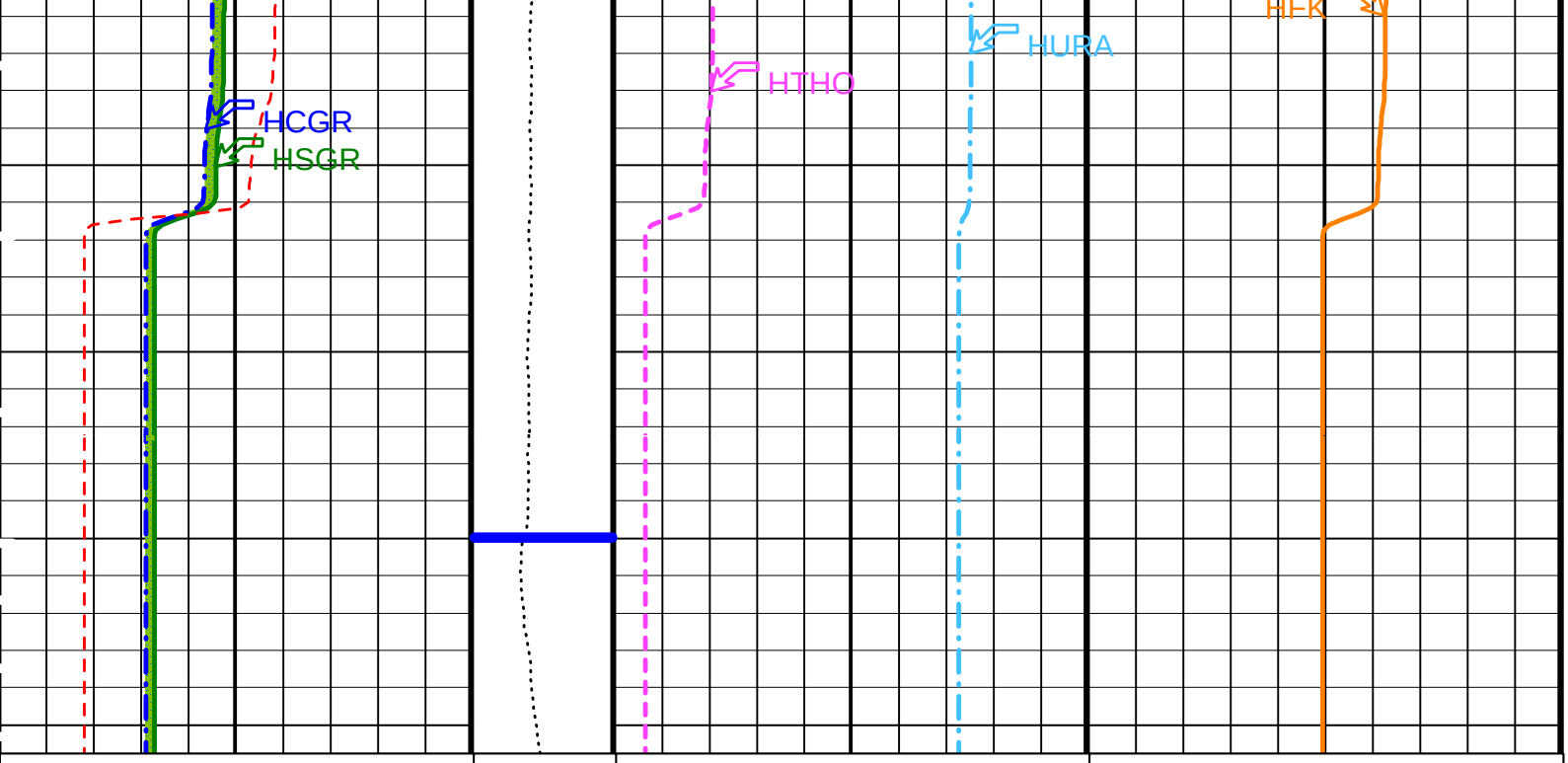
4950


4975
TENS
LCAL
HCGR
HSGR
HTHO
HURA
HBHK
HFK
5000


5025
5050


5075
5100
TENS
FR HNGS
LCAL
5125



HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
5 (PPM) 25

HNGS Potassium (HFK)
-0.01 (----) 0.04

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 150

HNGS Uranium (HURA)
-5 (PPM) 10

Area1
From HCGR to HSGR

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

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

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
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	
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1	
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245	
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17	
BS	Bit Size	9.875	IN
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
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	7.03834	%
D1TC	HNGS Detector 1 Calibration Temperature	59.2921	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.324	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.10236	%
D2TC	HNGS Detector 2 Calibration Temperature	57.3948	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.925	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	1.03	G/C3
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
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	
HALF	HNGS Alpha Filter Length	60	IN
HATM	HNGS Marquardt Accumulation Time	600	S

HATIM	HNGS Marquardt Accumulation Time	600	S
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO	
HSVN	HNGS Spectral Standards Version Number	8.70492e-032	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	26.8307	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986846	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	27.2589	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.984706	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 05-Jun-2000 10:10

OP System Version: 9C1-303

MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Output DLIS Files

DEFAULT	DITE	.020	FN:20	PRODUCER	05-Jun-2000 10:10
IPLT_CUST	DITE	.020	FN:21	PRODUCER	05-Jun-2000 10:10

COMPANY:	Lamont Doherty
WELL:	ODP Leg 190, Site 1173A
FIELD:	Nankai Trough
Country:	Japan
Ocean:	Pacific

BOTTOM LOG INTERVAL	5237 m
SCHLUMBERGER DEPTH	5239.5 m
DEPTH DRILLER	5536.2 m
KELLY BUSHING	11.3 m
DRILL FLOOR	11 m
GROUND LEVEL	-4801.9 m

Schlumberger

Natural Gamma-Ray