Schlumberger

Company: Lamont Doherty

Well: IODP EXP 308 Site 1320A
Field: Brazos Trinity Basin
Country: USA Ocean: Gulf Of Mexico

Country: USA
Field: Brazos Trinity Basin
Location: Rig- Joides Resolution
Well: IODP EXP 308 Site 1320A
Company: Lamont Doherty

Natural Gamma Ray

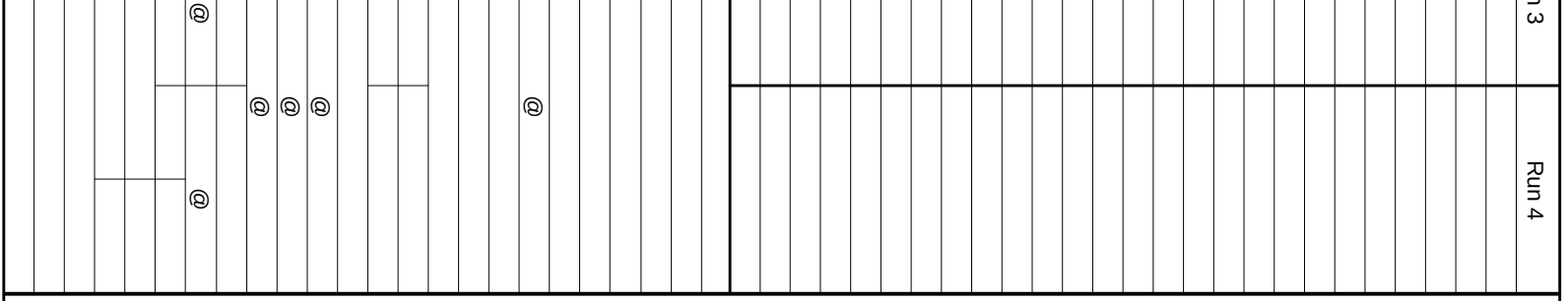
LOCATION

Rig- Joides Resolution		Elev.: K.B.	11.3 m
		G.L.	-1480.4 m
		D.F.	0 m
Permanent Datum:	GROUND LEVEL	Elev.:	0 m
Log Measured From:	DES	11.3 m	above Perm. Datum
Drilling Measured From:	DES		

API Serial No.	Max. Hole Devi.	Longitude	Latitude
		W 94 23.2524	N 27 18.0816

	Run 1	Run 2	Run 3
Logging Date			
Run Number	1		
Depth Driller	1780 m		
Schlumberger Depth	1776 m		
Bottom Log Interval	1774 m		
Top Log Interval	1461 m		
Casing Driller Size @ Depth	0.000 in @ 1541.9 m	@	@
Casing Schlumberger	1540 m		
Bit Size	9.875 in		
Type Fluid In Hole	Sepiolite		
MUD Density / Viscosity	1.066 g/cm3		
MUD Fluid Loss / PH	0 cm3		
MUD Source Of Sample			
RM @ Measured Temperature	0.177 ohm.m @ 23 degC	@	@
RMF @ Measured Temperature	0.158 ohm.m @	@	@
RMC @ Measured Temperature	0.149 ohm.m @	@	@
Source RMF / RMC			
RM @ MRT / RMF @ MRT	0.199 @ 18	@ 18	@ @
Maximum Recorded Temperatures	18 degC		
Circulation Stopped / Time	6/9/05	1800	
Logger On Bottom / Time	6/10/05	See Log	
Unit Number / Location	99	Houston	
Recorded By	Steve Kittredge		
Witnessed By	Gerry Iturrino		

	Run 1	Run 2	Run 3
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			



DISCLAIMER

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

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Hole Cored With APC.	
All depths in Meters Below Rig Floor (MBRF).	
Hole flushed with Sepiolite	
Sea Floor Driller- 1480.4 MBRF.	
Sea Floor Logger- 1478 MBRF.	
Total Depth Driller- 1780 MBRF.	
Total Depth Logger- 1776 MBRF.	
Casing Bottom Driller- 1541.9 MBRF.	
Casing Bottom Logger- 1540 MBRF.	
Had Problems getting past washout at 1654.5 MBRF.	
Had some overpull coming through the sealbore	
with Go-Devil on bottom.	
After entering pipe the WHC was accidentally turned off	
allowing the sheave wheel to stroke out.	
This put the tool off depth 3 meters making the DITE sea floor	
measurement too shallow.	

RUN 1

SERVICE ORDER #:
PROGRAM VERSION: 12C0-301
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

RUN 2

SERVICE ORDER #:
PROGRAM VERSION:
FLUID LEVEL:

LOGGED INTERVAL	START	STOP

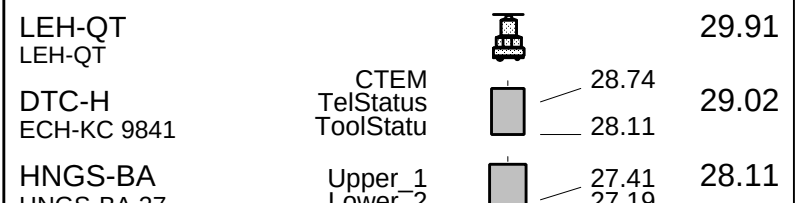
EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT

SFT-281 6250
SFT-178 6250
GSR-U 135
WITM (DTS)-A

DOWNHOLE EQUIPMENT



RUN 2

HNGS-BA 27
HNSH-BA 27

Lower_2 27.19

ILE-D 25.61
ILE-D 25

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

APS-C 23.17
APH-AC 104
APS-C 202
MNTR-F 5124

20.73
20.65
20.52
20.42

NPLC-B 19.23
NPLC-B 79
NPH-B 82

Status 18.00

HLDS 16.78
GSR-Z 2326
HLDV-D 35
HLDS-D 35
HEH-H 35
HLDP-C 35

Caliper
SS LS Status 12.73

DTA-A 11.96
ECH-KE
DTA-A 8261

GPIT-A/B 10.74
GPIC-A 840
GPIH-A

DIT-E 9.52
DIC-EB 171
MIH-ZA 174
DIS-HB 129

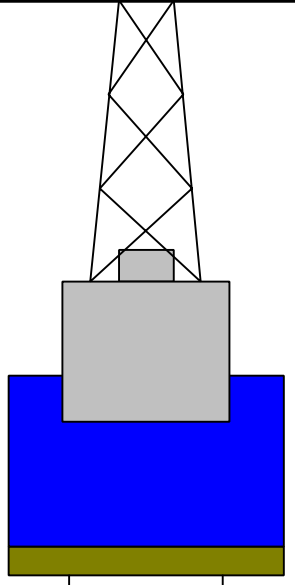
SP 3.15
Deep Ind 2.90
Aux Meas SFL 1.98
Med Ind 1.83

HV DF
Status GPIT
Tension 0.00

TOOL ZERO

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

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

Kelly Bushing Elevation			11.3				
Mean Sea Level			0.0				
					0.0	5.500	4.000	Casing String
					1480.4	5.500	4.000	Casing Shoe
					1480.4	9.875		Borehole Segment
					1780.0	9.875		Borehole Segment Bottom

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MAIN PASS

MAXIS Field Log

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_029LUP	FN:10	PRODUCER	10-Jun-2005 00:18	1776.2 M	1461.1 M

OP System Version: 12C0-301

MCM

DIT-E	12C0-301	GPIT-A/B	12C0-301
DTA-A	12C0-301	HLDS	12C0-301
NPLC-B	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTC-H	12C0-301

Changed Parameter Summary

DLIS Name	New Value	Previous Value	Depth & Time
GCSE	BS	LCAL	1577.1 01:06:44

PIP SUMMARY

Time Mark Every 60 S

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

Area1
From HCGR to HSGR

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

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

HNGS Uranium (HURA)
-5 (PPM) 10

HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

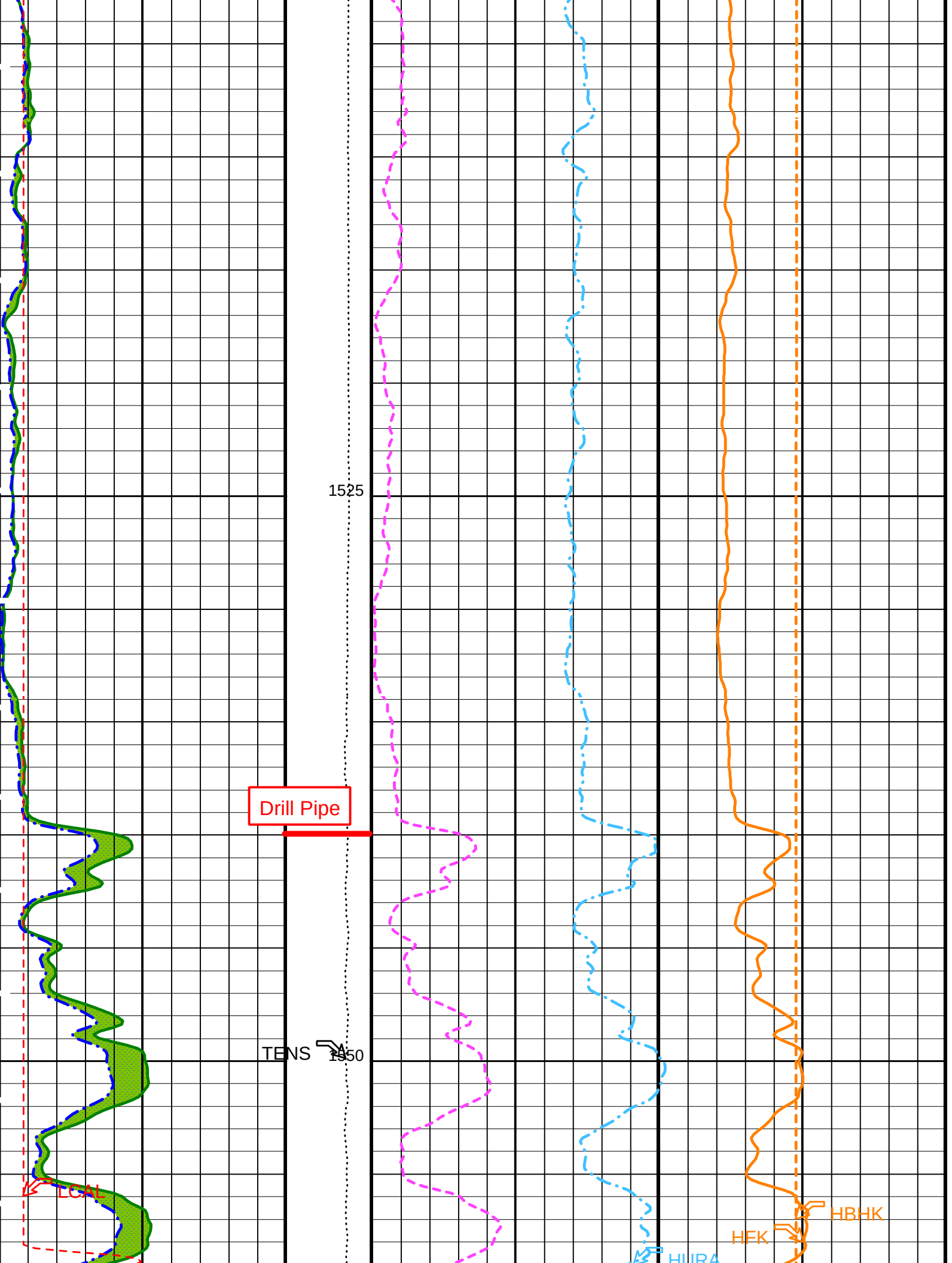
HNGS Thorium (HTHO)
0 (PPM) 25

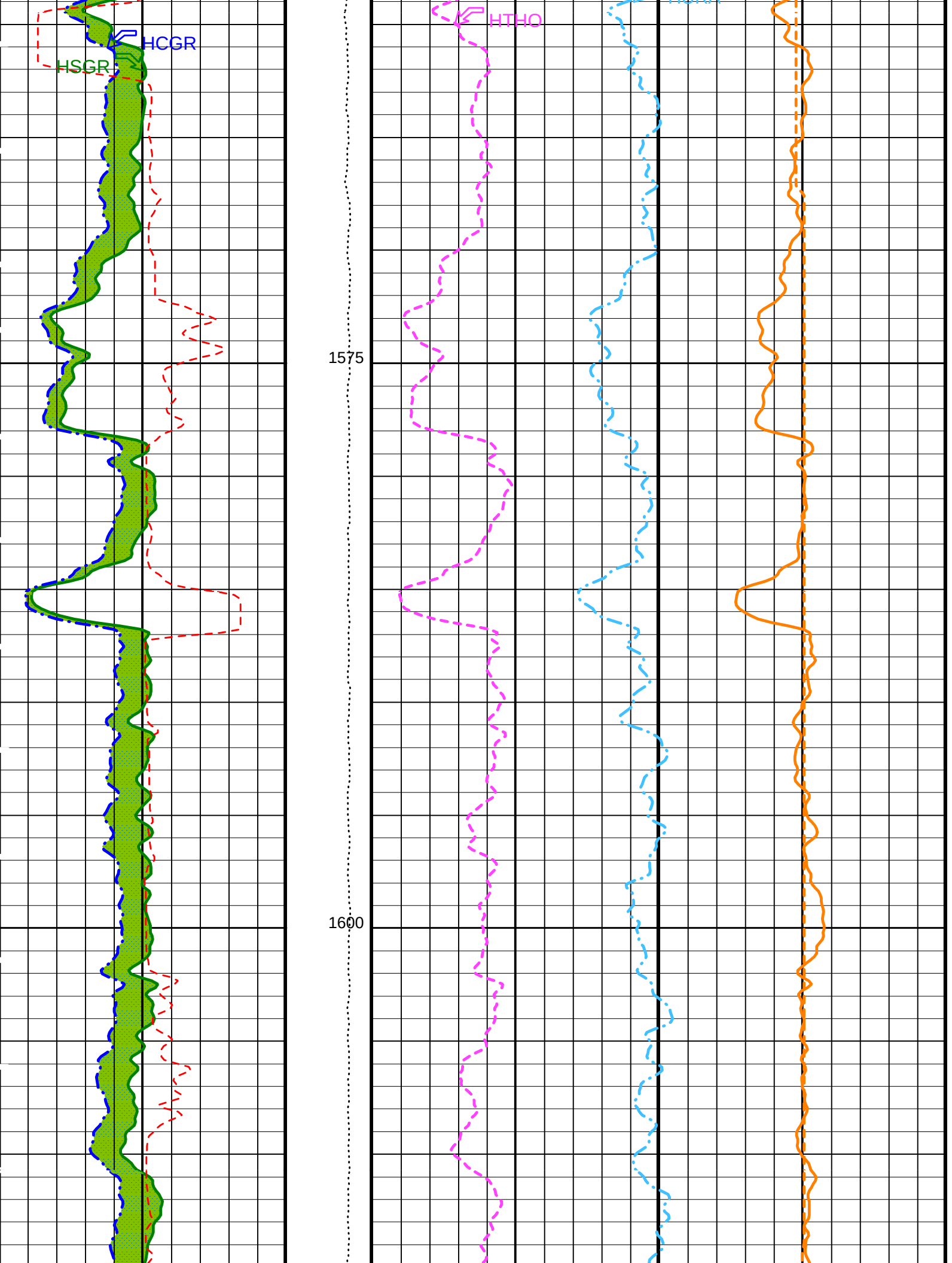
HNGS Potassium (HFK)
-0.01 (----) 0.04

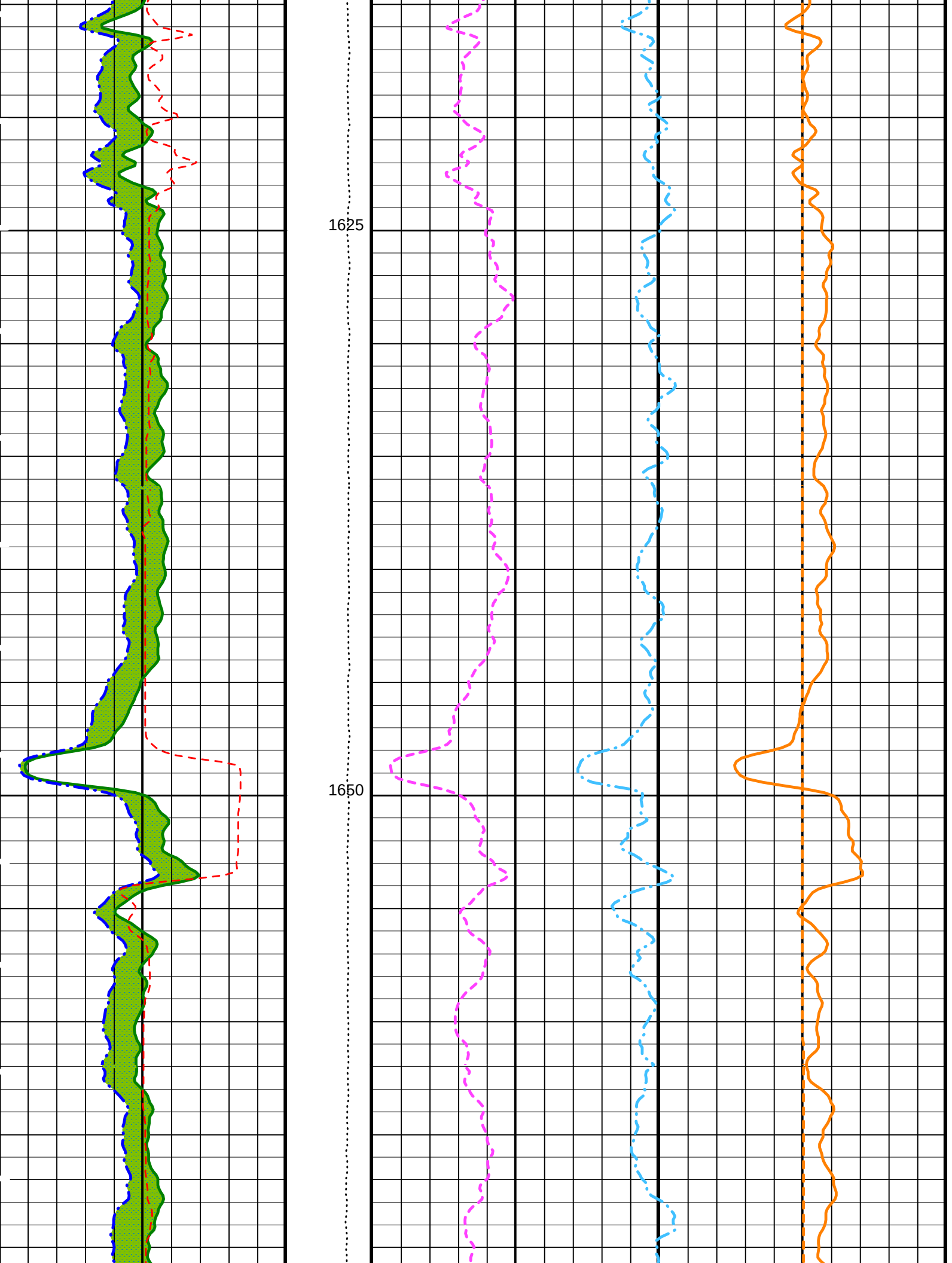
Last Reading

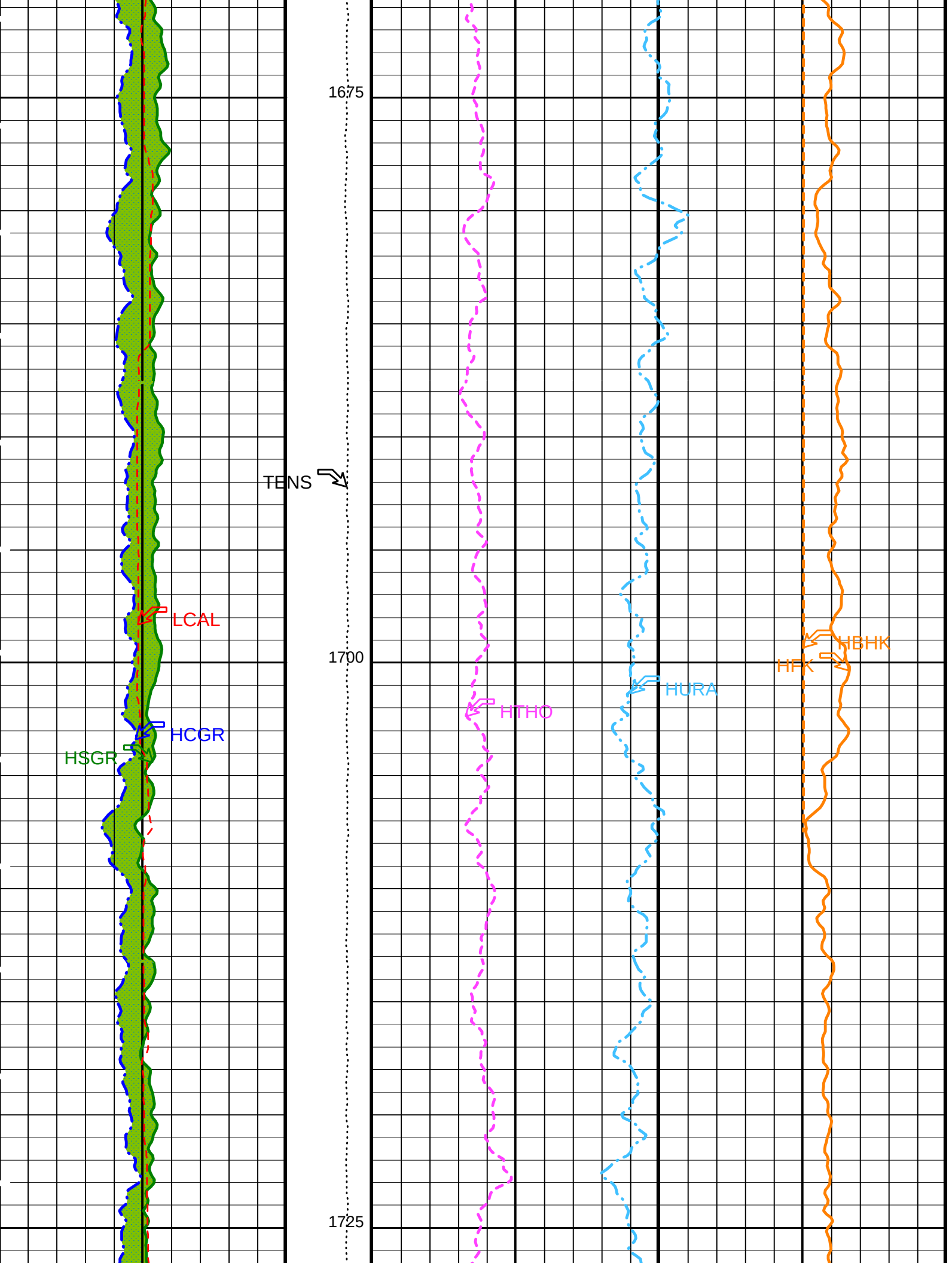
1475

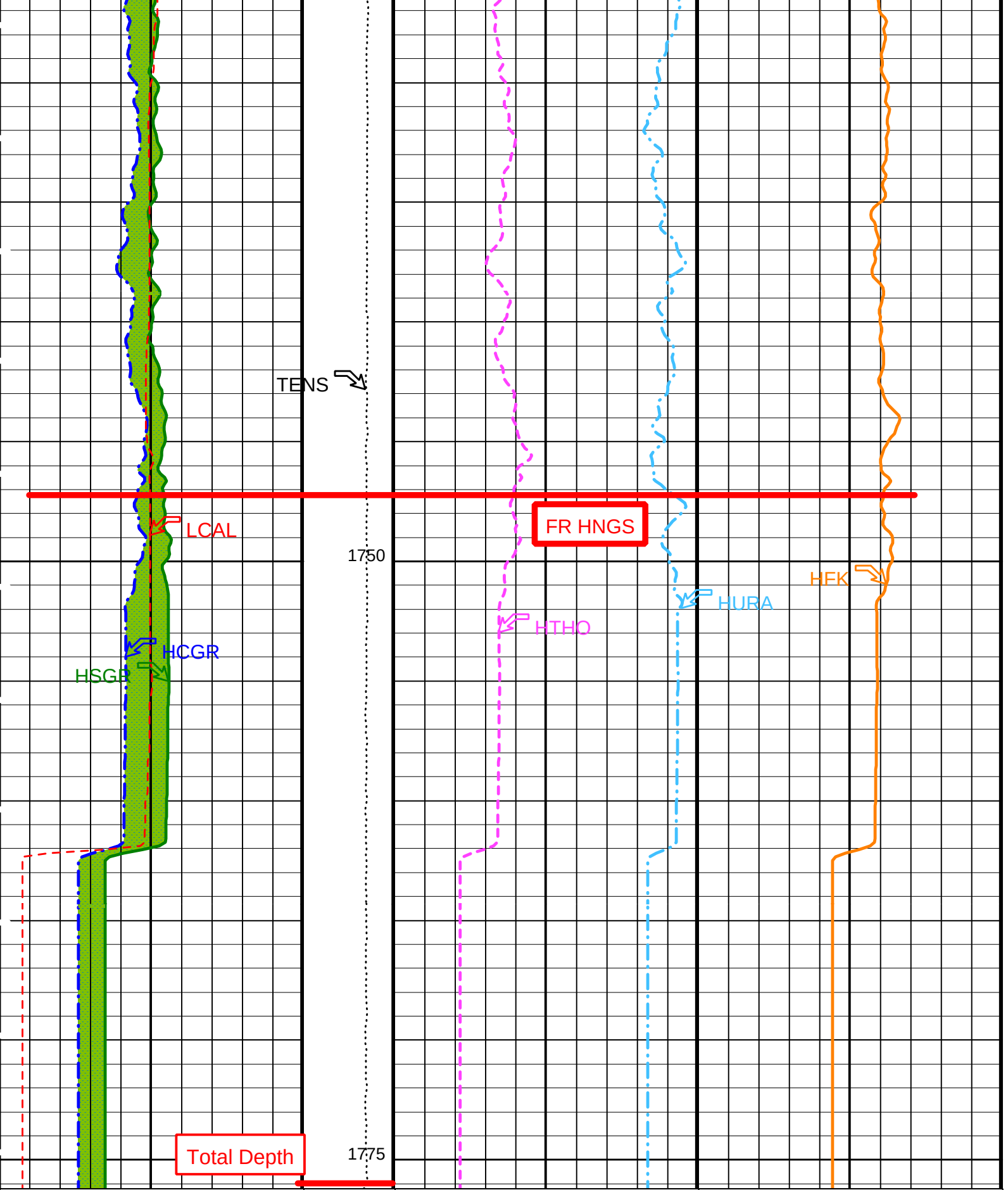
1500


1525
Drill Pipe
TENS
1550
LCAL
HBHK
HFK
HURA


HCGR
HSGR
HTHO
1575
1600


1625
1650


1675
TENS
1700
LCAL
HCGR
HSGR
HTHO
HURA
HBHK
HFK
1725



HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 25

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

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

HNGS Uranium (HURA)
-5 (PPM) 10

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
	DIT-E: Dual Induction - E		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	APS-C: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN	
GCSE	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	-0.000855322	
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	0.996435	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.979892	
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.07	G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 10-Jun-2005 00:18

OP System Version: 12C0-301

MCM

DIT-E	12C0-301	GPIT-A/B	12C0-301
DTA-A	12C0-301	HLDS	12C0-301
NPLC-B	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTC-H	12C0-301

Output DLIS Files

DEFAULT PI_LDL_APS_NGS_029LUP FN:10 PRODUCER 10-Jun-2005 00:18

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REPEAT SECTION

MAXIS Field Log

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_028LUP	FN:9	PRODUCER	09-Jun-2005 23:53	1652.8 M	1579.6 M

OP System Version: 12C0-301

MCM

DIT-E	12C0-301	GPIT-A/B	12C0-301
DTA-A	12C0-301	HLDS	12C0-301
NPLC-B	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTC-H	12C0-301

PIP SUMMARY

Time Mark Every 60 S

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

Area1
From HCGR to HSGR

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

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

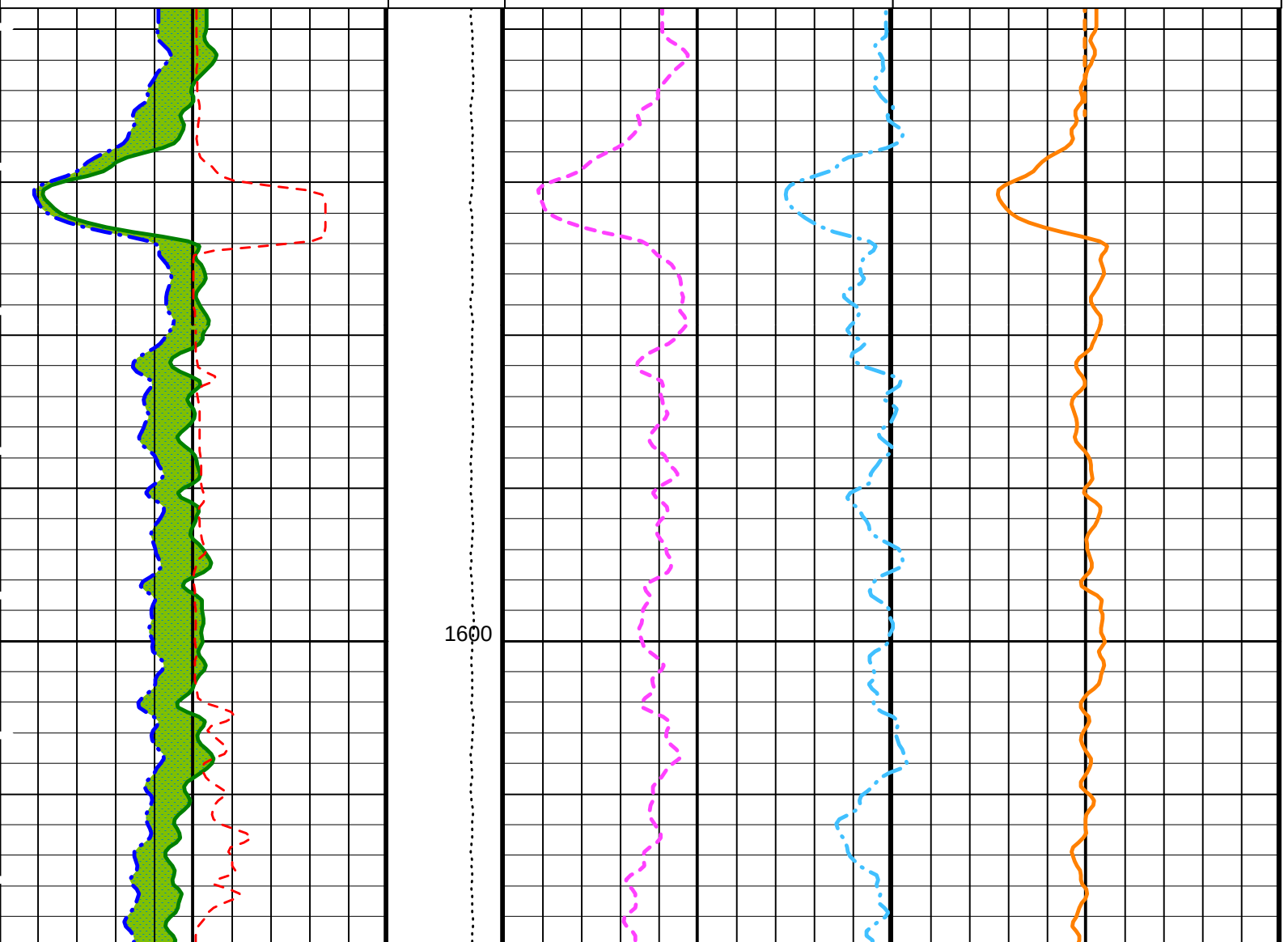
HNGS Uranium (HURA)
-5 (PPM) 10

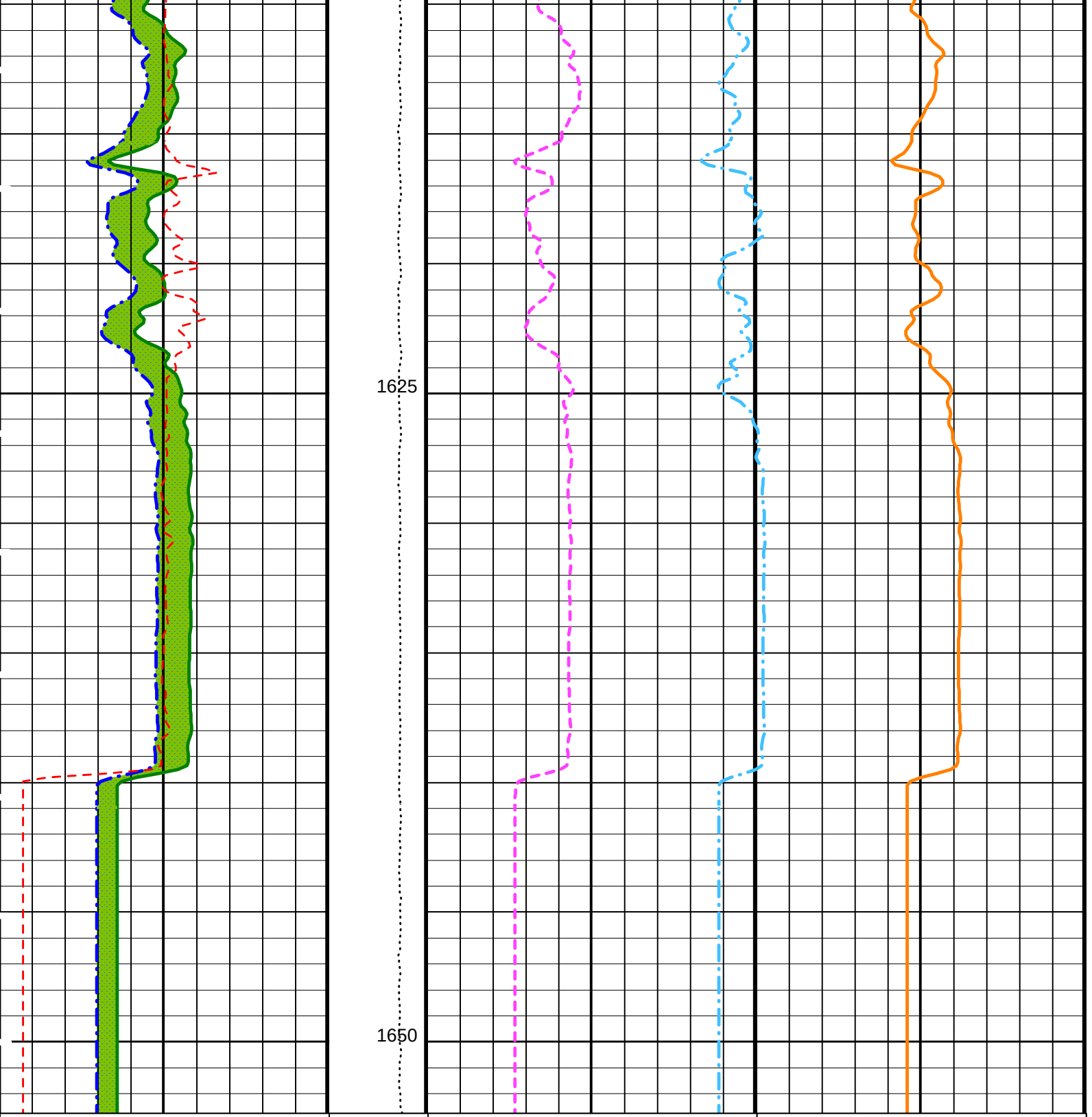
HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 25

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





HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (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	
	DIT-E: Dual Induction - E		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	APS-C: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN	
GCSE	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	-0.0269119	
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	0.987532	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.979116	
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
	System and Miscellaneous		
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.07	G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 09-Jun-2005 23:53

OP System Version: 12C0-301

MCM

DIT-E	12C0-301	GPIT-A/B	12C0-301
DTA-A	12C0-301	HLDS	12C0-301
NPLC-B	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTC-H	12C0-301

Output DLIS Files

DEFAULT PI_LDL_APS_NGS_028LUP FN:9 PRODUCER 09-Jun-2005 23:53

Company: Lamont Doherty

Schlumberger

Well: IODP EXP 308 Site 1320A
Field: Brazos Trinity Basin
Country: USA
Ocean: Gulf Of Mexico

Natural Gamma Ray