Schlumberger

Company: **Lamont Doherty**

Well: **NGHP–01–07D**

Field:

RIG **Joides Resolution** Ocean **Bengal Bay**

Hostile Natural Gamma–Ray Tool

Gamma Ray

RIG Joides Resolution
Field:
Location:
Well: NGHP–01–07D
Company: Lamont Doherty

LOCATION

		Elev.: K.B.	11.3 m
		G.L.	–1295.8 m
		D.F.	11.3 m
Permanent Datum:	Mean Sea Level	Elev.:	0 m
Log Measured From:	Drill Floor	11.3 m	above Perm. Datum
Drilling Measured From:	Drill FLoor		

API Serial No.	Latitude	Longitude	
	16* 31.2747' N	82* 40.8612' E	

Logging Date			9–Jul–2006					Logging Date
Run Number			One					Run Number
Depth Driller			1555.8 m					Depth Driller
Schlumberger Depth			1556 m					Schlumberger Depth
Bottom Log Interval			1556 m					Bottom Log Interval
Top Log Interval			1297 m					Top Log Interval
Casing Driller Size @ Depth			0.000 in	@ 1353.5 m		@		Casing Driller Size @ Depth
Casing Schlumberger			1353 m					Casing Schlumberger
Bit Size			11.438 in					Bit Size
Type Fluid In Hole			Sepiolite					Type Fluid In Hole
MUD	Density	Viscosity	1.06645 g/cm3					MUD Density / Viscosity
MUD	Fluid Loss	PH						MUD Fluid Loss / PH
MUD	Source Of Sample							MUD Source Of Sample
RM @ Measured Temperature			@		@			RM @ Measured Temperature
RMF @ Measured Temperature			@		@			RMF @ Measured Temperature
RMC @ Measured Temperature			@		@			RMC @ Measured Temperature
Source RMF	RMC							Source RMF / RMC
RM @ MRT	RMF @ MRT		@	@	@	@		RM @ MRT / RMF @ MRT
Maximum Recorded Temperatures								Maximum Recorded Temperatures
Circulation Stopped	Time		8–Jul–2006	21:00				Circulation Stopped / Time
Logger On Bottom	Time		9–Jul–2006	7:50				Logger On Bottom / Time
Unit Number	Location		2082	Webster, TX				Unit Number / Location
Recorded By			Javier Espinosa					Recorded By
Witnessed By			Gilles Guerin, Golam Sarker					Witnessed By

DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1: DITE	OS1:
OS2: VSI	OS2:
OS3: HLDS	OS3:
OS4: APS	OS4:
OS5:	OS5:

REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
All parameters and presentations as per client request	
Tool ran as per tool sketch below	
Down log showed as repeat pass	
HLDS caliper closed at 1383 mbrf to avoid tool damage	

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:		12C0–301	PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

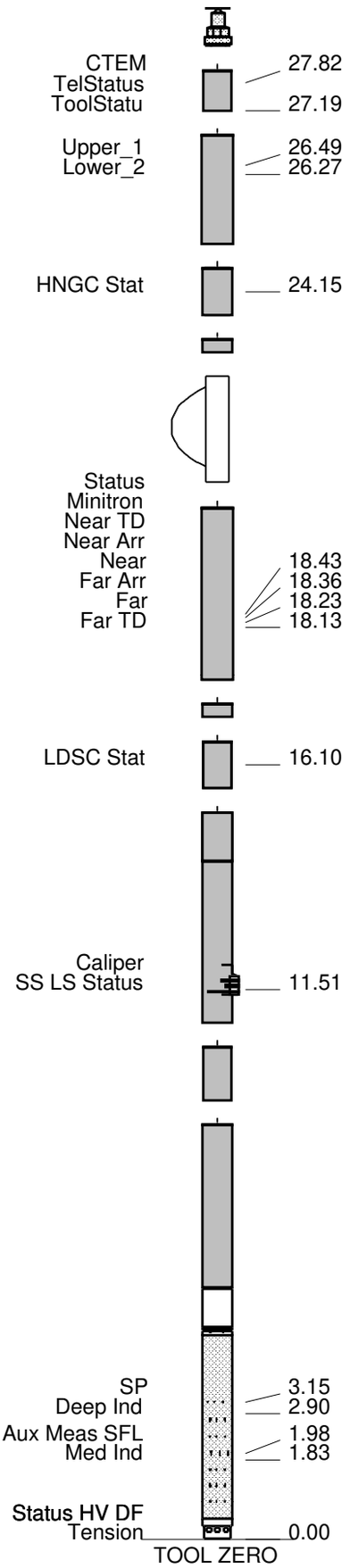
EQUIPMENT DESCRIPTION

RUN 1 RUN 2

SURFACE EQUIPMENT

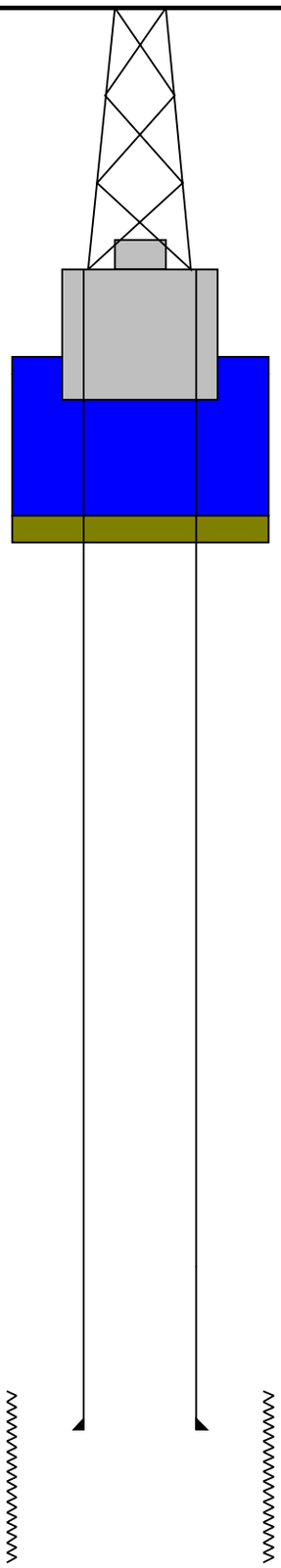
SFT−281 6250
SFT−178 6250
GSR−U 135
WITM (DTS)−A

DOWNHOLE EQUIPMENT



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					
Derrick Floor Elevation			11.0		11.0	5.000		Casing String
Mean Sea Level			0.0					
					1295.0	11.438		Borehole Segment
					1353.0	5.000		Casing Shoe



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MAIN PASS

MAXIS Field Log

Company: Lamont Doherty **Well: NGHP–01–7D**

Input DLIS Files

DEFAULT	PI_LDL_APS_NGS_014LUP	FN:15	PRODUCER	09–Jul–2006 07:46	1556.8 M	1257.0 M

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_015PUP	FN:17	PRODUCER	09–Jul–2006 08:56	1556.8 M	1234.1 M
REDUCED	PI_LDL_APS_NGS_015PUP	FN:18	PRODUCER	09–Jul–2006 08:56	1556.8 M	1234.1 M

OP System Version: 12C0–301

MCM

DIT–E	12C0–301	DTA–A	12C0–301
HLDS	SPC–2602–NUCL	LDSC–B	SPC–2602–NUCL
APS–C	SPC–2602–NUCL	HNGC–B	SPC–2602–NUCL
HNGS–BA	SPC–2602–NUCL	DTC–H	12C0–301

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

HNGS Borehole Potassium (HBHK)
–0.05 (V/V) 0.05

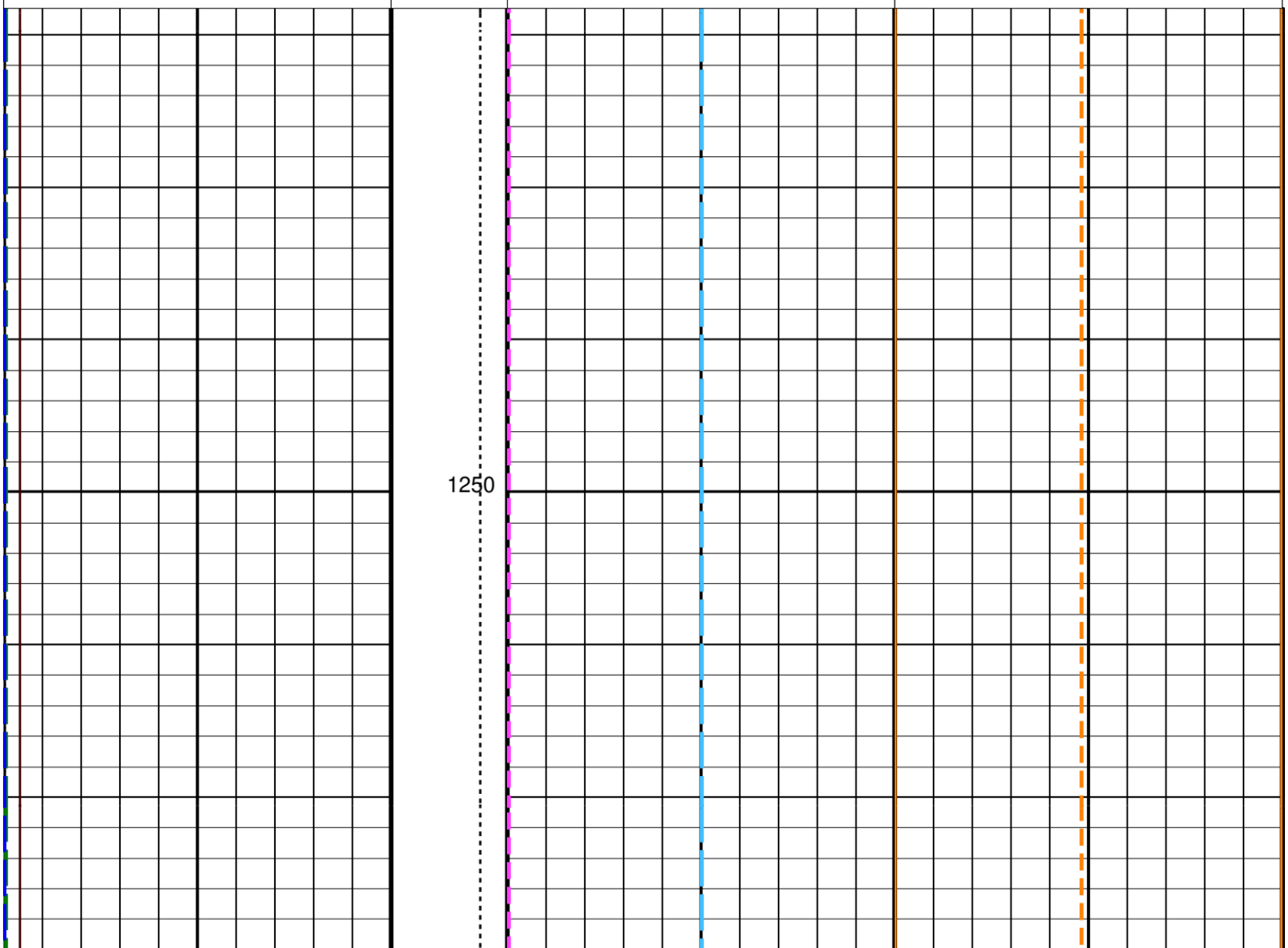
HNGS Uranium (HURA)
–10 (PPM) 30

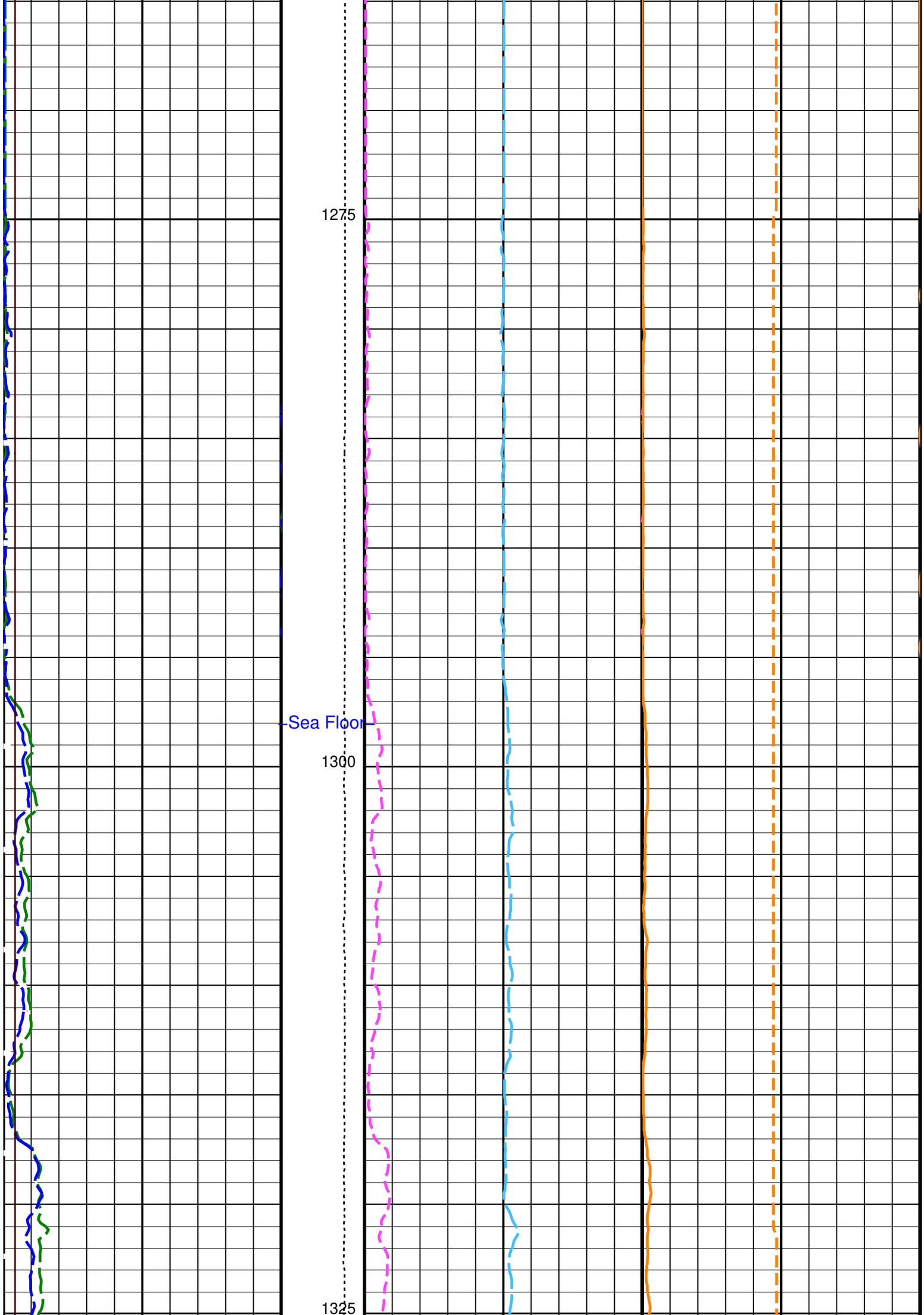
HLDS Caliper (LCAL)
0 (IN) 20

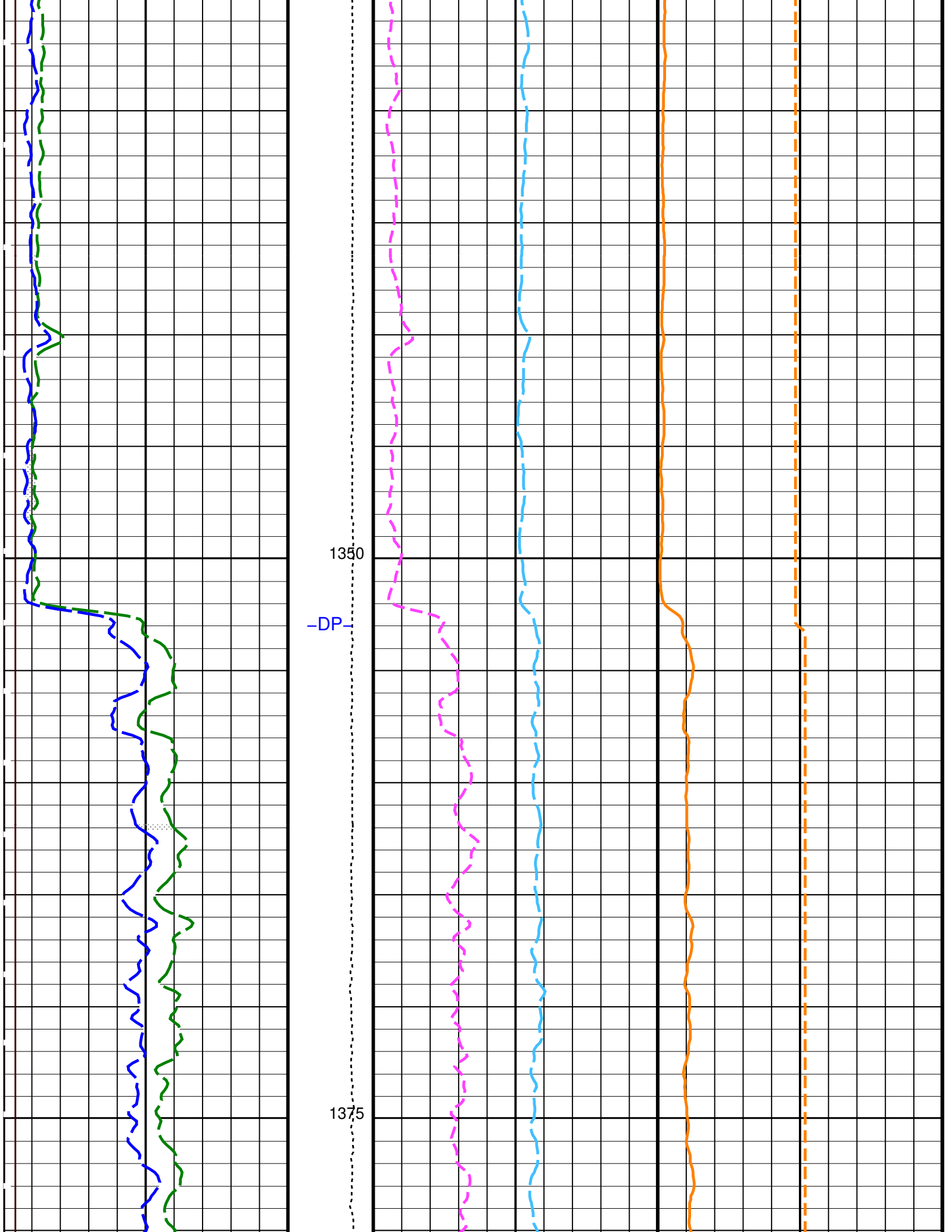
Tension (TENS) (LBF)
10000 0

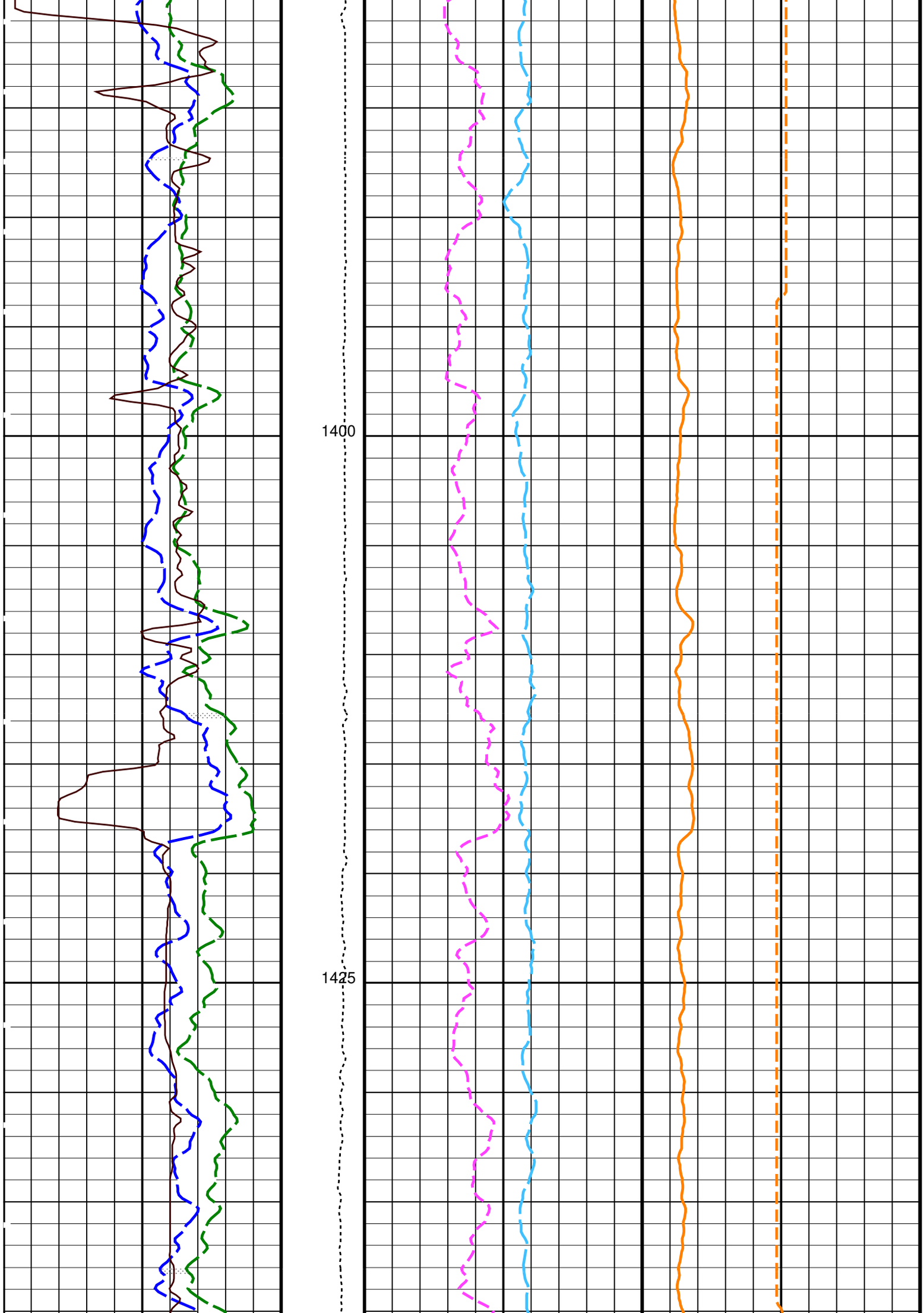
HNGS Thorium (HTHO)
0 (PPM) 30

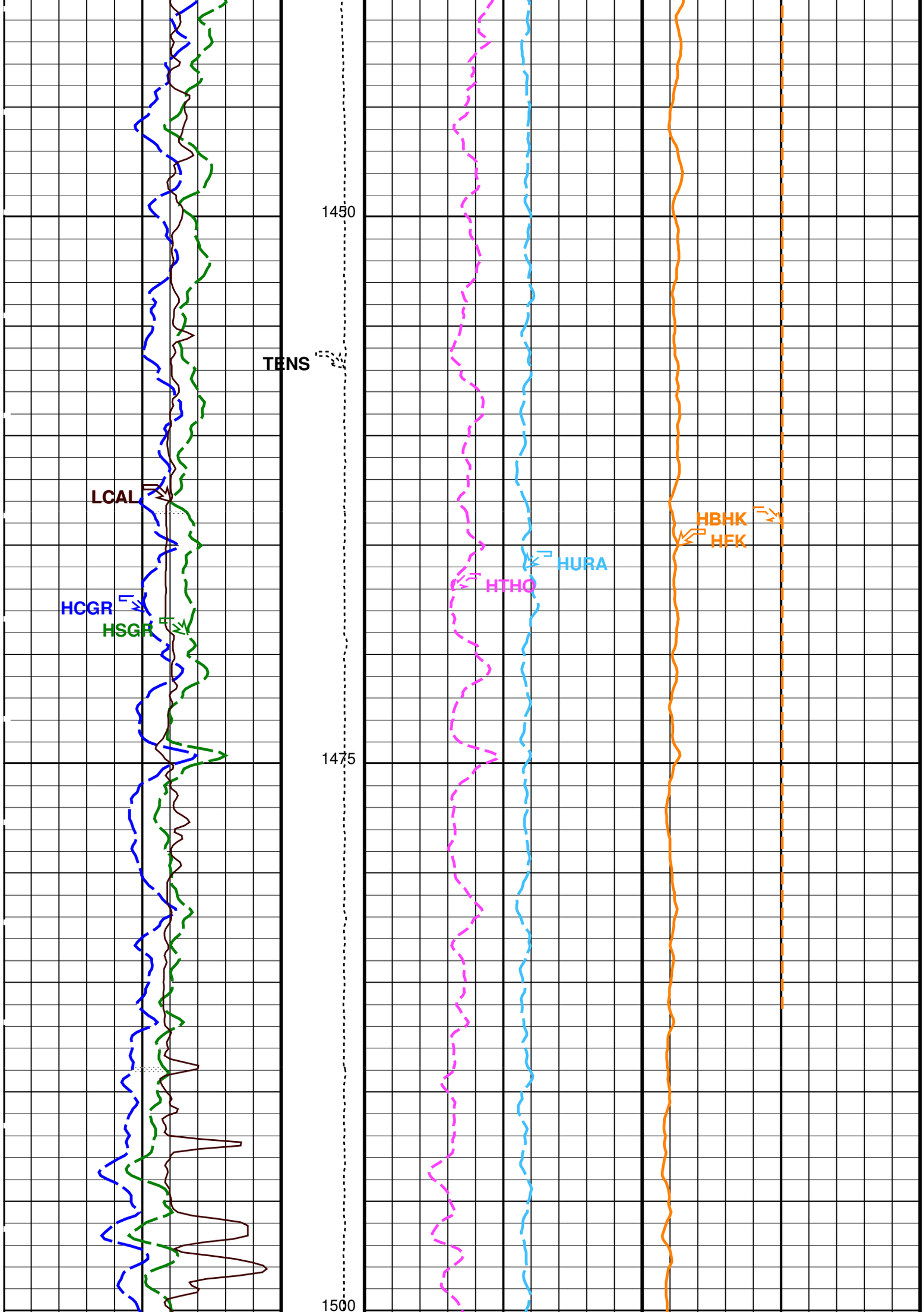
HNGS Potassium (HFK)
0 (V/V) 0.1

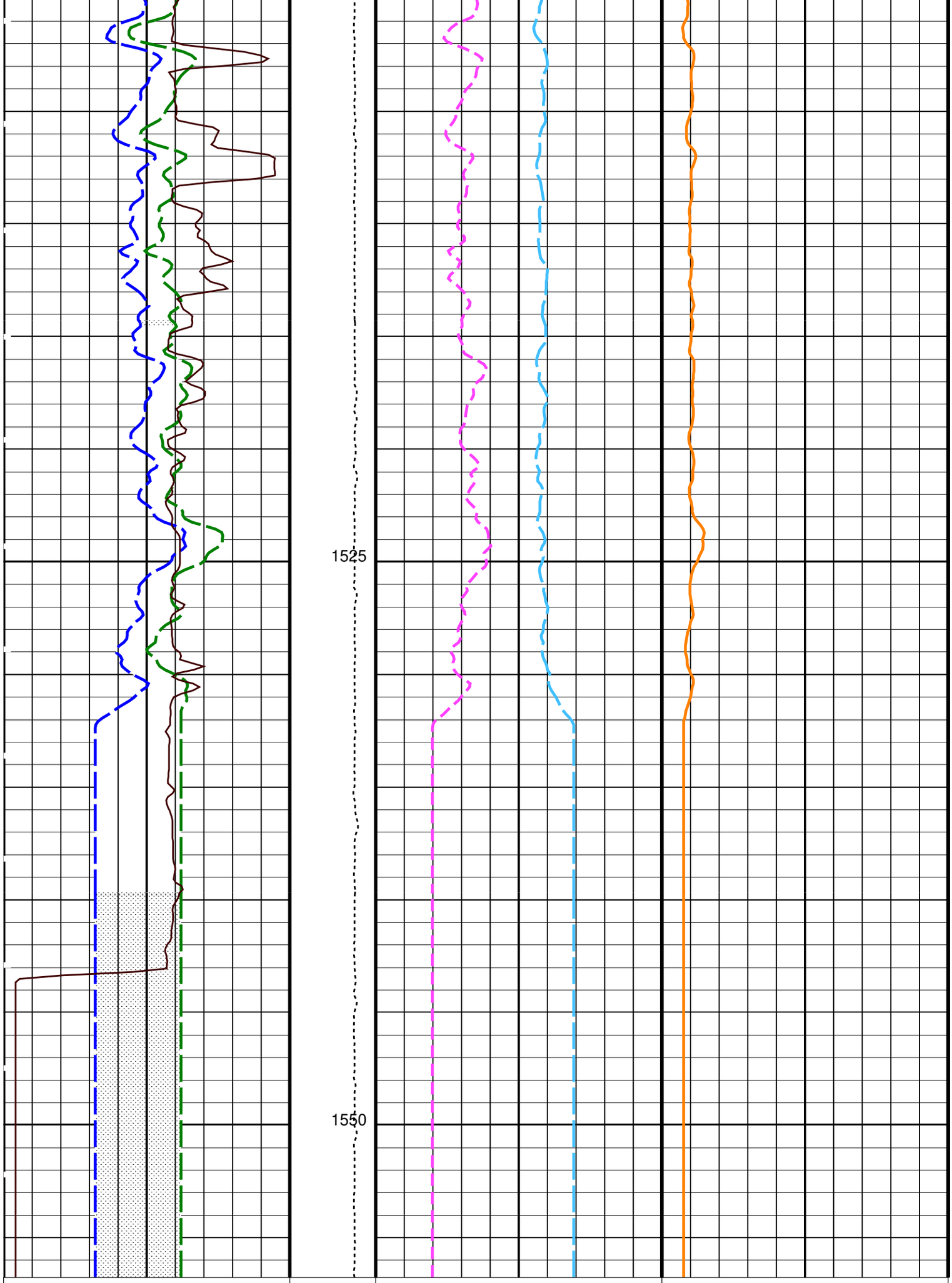



1275
Sea Floor
1300
1325


1350
–DP–
1375


1400
1425


1450
TENS
LCAL
HCGR
HSGR
1475
HTHO
HURA
HBHK
HFK
1500



HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 30

HNGS Potassium (HFK)
0 (V/V) 0.1

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

HNGS Uranium (HURA)
−10 (PPM) 30

Area1
From HCGR to HSGR

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

HNGS Borehole Potassium (HBHK)
−0.05 (V/V) 0.05

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	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	−0.00113819	
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	0.952616	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.953203	
	System and Miscellaneous		
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.07	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 09−Jul−2006 08:56

OP System Version: 12C0−301

MCM

DIT−E	12C0−301	DTA−A	12C0−301
HLDS	SPC−2602−NUCL	LDSC−B	SPC−2602−NUCL
APS−C	SPC−2602−NUCL	HNGC−B	SPC−2602−NUCL
HNGS−BA	SPC−2602−NUCL	DTC−H	12C0−301

Input DLIS Files

DEFAULT	PI_LDL_APS_NGS_014LUP	FN:15	PRODUCER	09−Jul−2006 07:46	1556.8 M	1257.0 M

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_015PUP	FN:17	PRODUCER	09−Jul−2006 08:56
REDUCED	PI_LDL_APS_NGS_015PUP	FN:18	PRODUCER	09−Jul−2006 08:56

Schlumberger

REPEAT PASS

MAXIS Field Log

Input DLIS Files

DEFAULT	Flip_PI_LDL_APS_NGS_027LUP	PRODUCER	10–Jul–2006 16:16	1510.3 M	1383.0 M

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_028PUP	FN:34	PRODUCER	10–Jul–2006 16:20	1510.3 M	1387.8 M
REDUCED	PI_LDL_APS_NGS_028PUP	FN:35	PRODUCER	10–Jul–2006 16:20	1510.3 M	1387.8 M

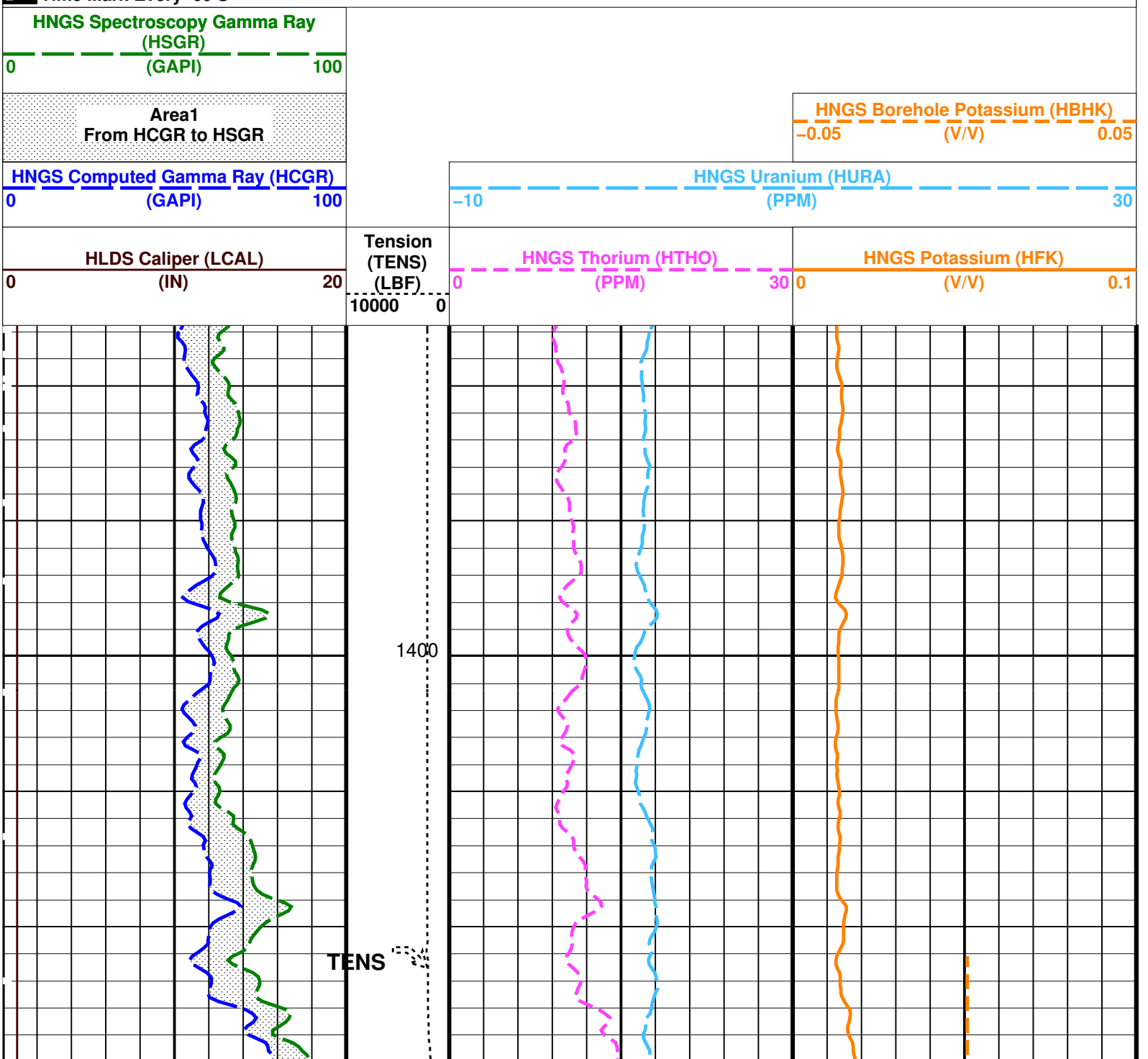
OP System Version: 12C0–301

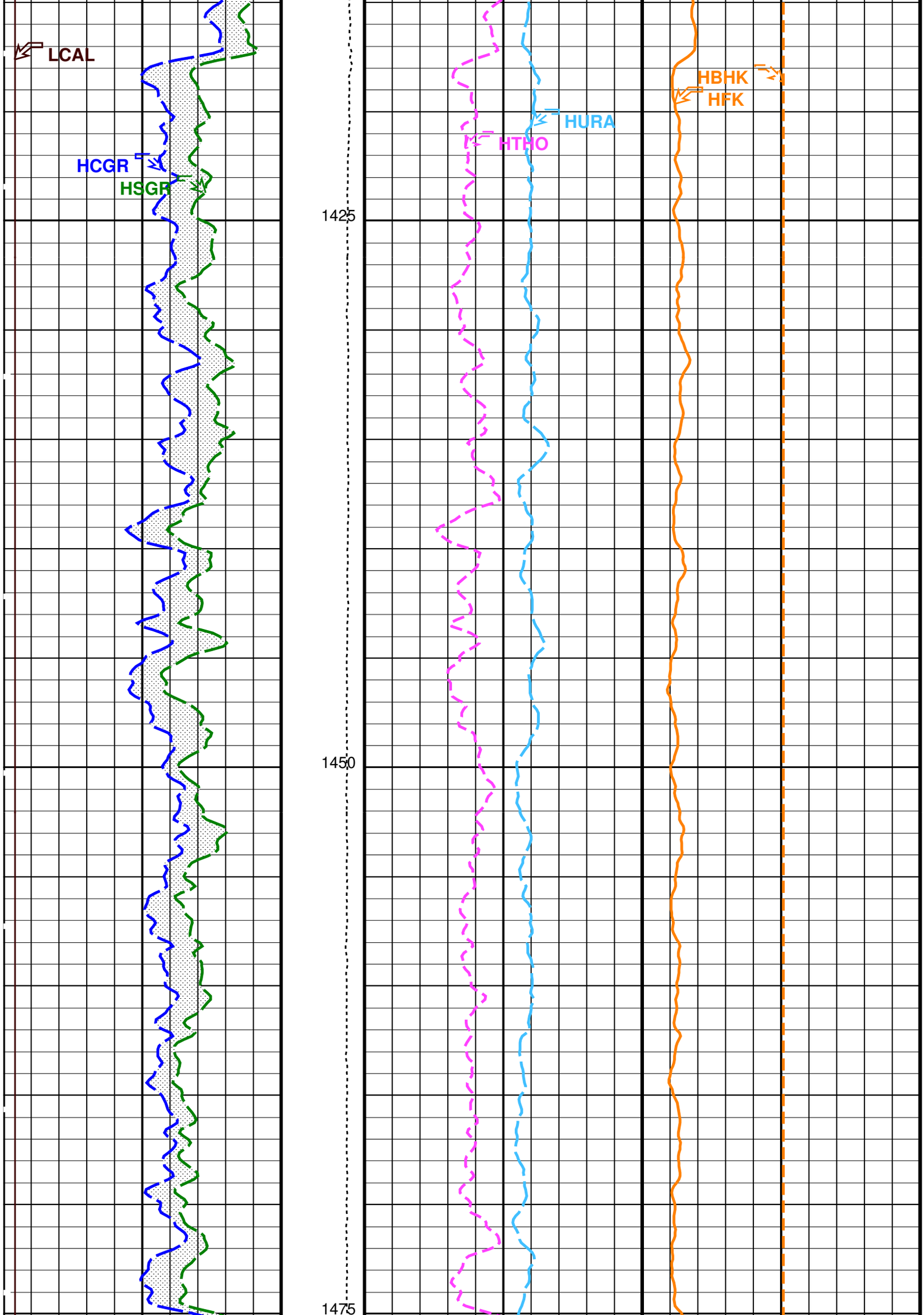
MCM

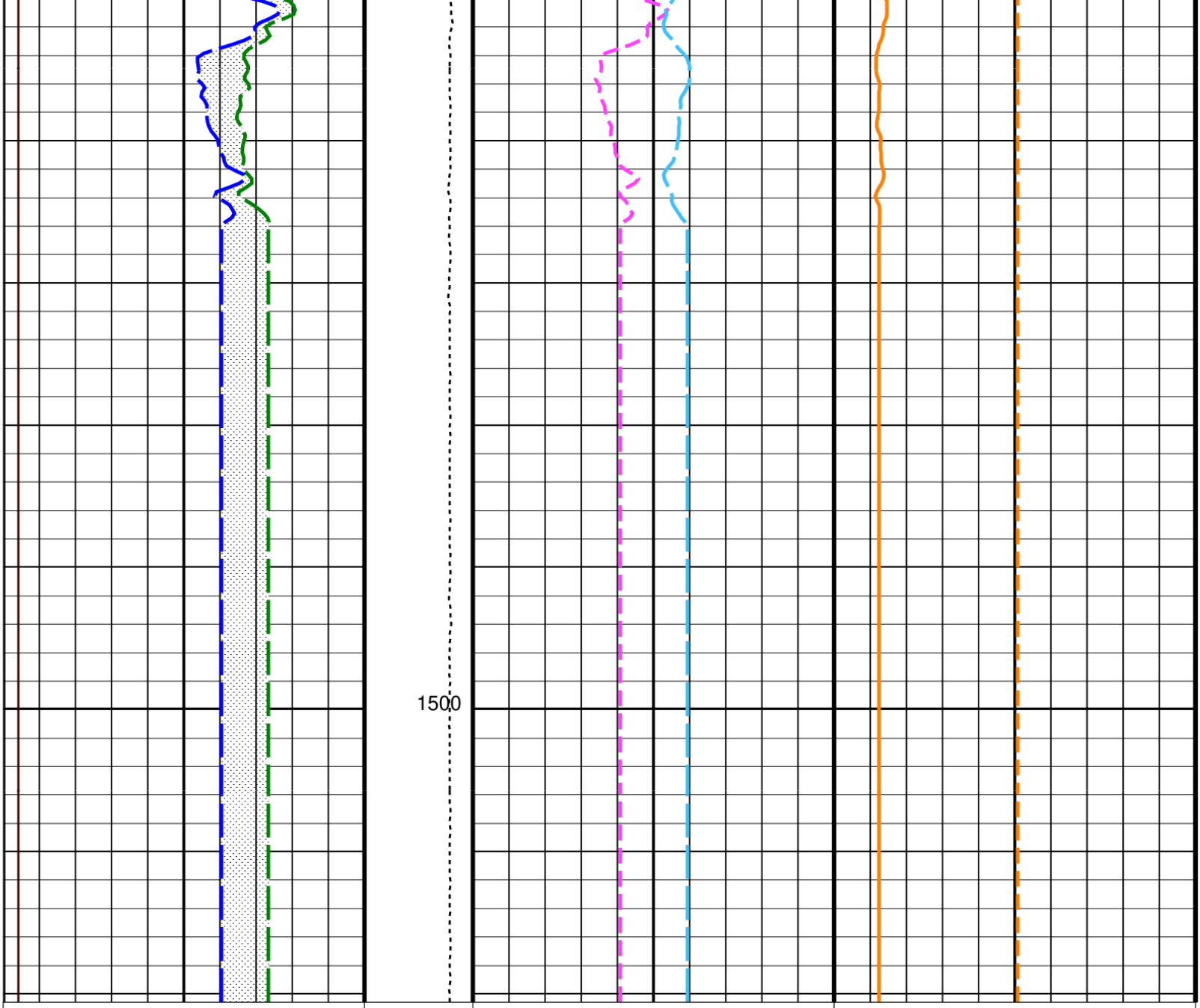
DIT–E	12C0–301	DTA–A	12C0–301
HLDS	SPC–2602–NUCL	LDSC–B	SPC–2602–NUCL
APS–C	SPC–2602–NUCL	HNGC–B	SPC–2602–NUCL
HNGS–BA	SPC–2602–NUCL	DTC–H	12C0–301

PIP SUMMARY

Time Mark Every 60 S




LCAL
HCGR
HSGR
1425
1450
1475
HTHO
HURA
HBHK
HFK



HLDS Caliper (LCAL)
0 (IN) 20

Tension (TENS) (LBF)
10000 0

HNGS Thorium (HTHO)
0 (PPM) 30

HNGS Potassium (HFK)
0 (V/V) 0.1

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 100

HNGS Uranium (HURA)
−10 (PPM) 30

Area1
From HCGR to HSGR

HNGS Borehole Potassium (HBHK)
−0.05 (V/V) 0.05

HNGS Spectroscopy Gamma Ray (HSGR)
0 (GAPI) 100

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	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	–0.00113819	
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	0.952616	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.953203	
	System and Miscellaneous		
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.07	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 10–Jul–2006 16:20

OP System Version: 12C0–301

MCM

DIT–E	12C0–301	DTA–A	12C0–301
HLDS	SPC–2602–NUCL	LDSC–B	SPC–2602–NUCL
APS–C	SPC–2602–NUCL	HNGC–B	SPC–2602–NUCL
HNGS–BA	SPC–2602–NUCL	DTC–H	12C0–301

Input DLIS Files

DEFAULT	Flip_PI_LDL_APS_NGS_027LUP	PRODUCER	10–Jul–2006 16:16	1510.3 M	1383.0 M

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_028PUP	FN:34	PRODUCER	10–Jul–2006 16:20
REDUCED	PI_LDL_APS_NGS_028PUP	FN:35	PRODUCER	10–Jul–2006 16:20

Company: **Lamont Doherty**

Schlumberger

Well: **NGHP–01–07D**

Field:

RIG **Joides Resolution**

Ocean **Bengal Bay**

Hostile Natural Gamma–Ray Tool

Gamma Ray