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OTHER SERVICES1 OS1: DITE OS2: SGTN OS3: APS/HLDT OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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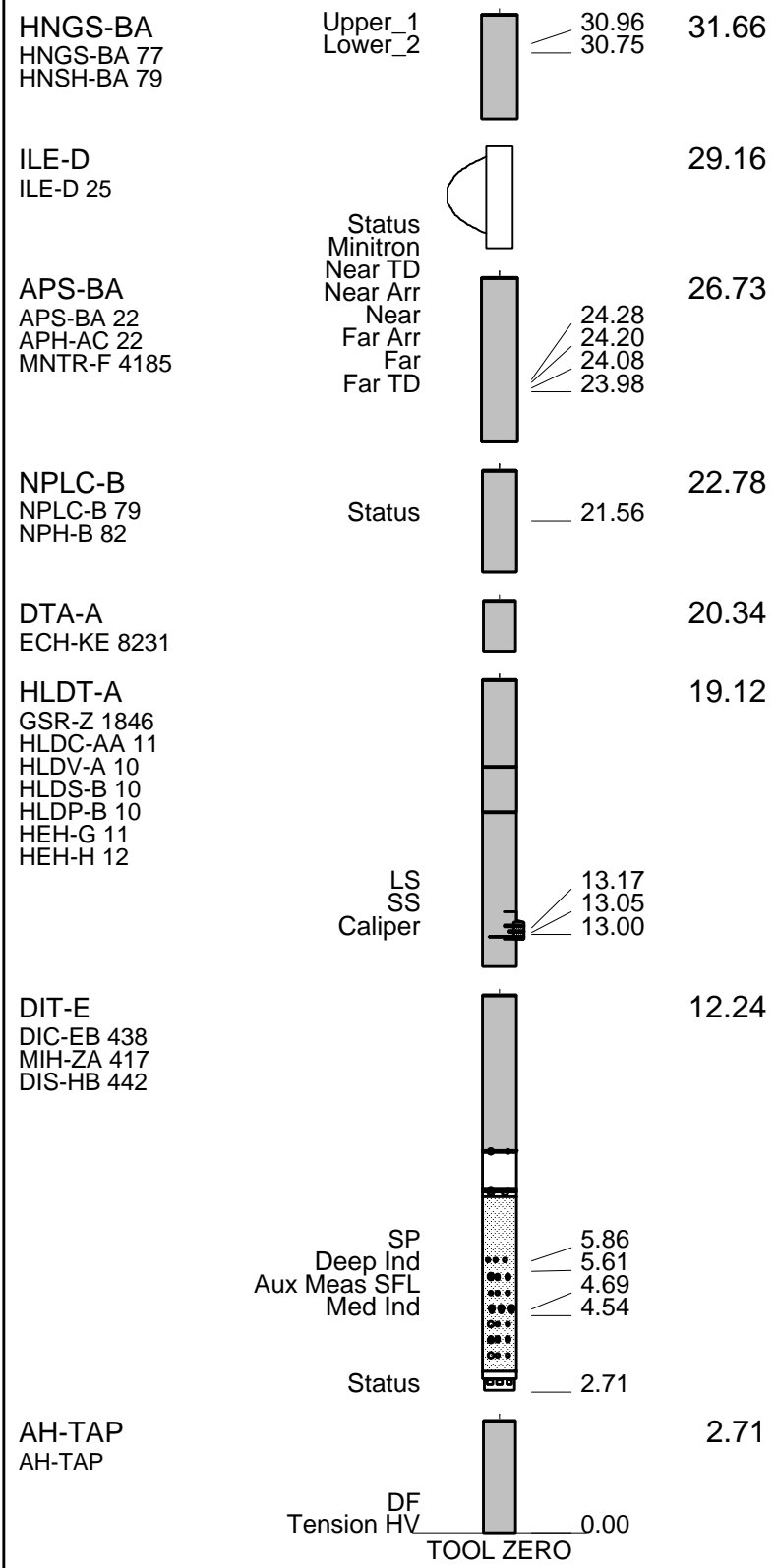
REMARKS: RUN NUMBER 1 Hole cored with APC, PCS. Log presented in meters below rig floor. Lamont Temperature tool (TAP) was run on Triple Combo. Wireline Heave Compensator (WHC) was used on all descents. Sepiolite mud was used to displace the hole during the wiper trip after drilling Drillers TD 350 mbrf, Driller pipe depth: 231 mbrf, Sea Floor: 164 mbrf.  Drill Pipe Schlumberger 233 mbrf. Sea Floor Schlumberger 164 mbrf.	REMARKS: RUN NUMBER 2
Low background countrate on HNGS master calibration signifies a weak internal source used for check of detector and not used in calibration.	
After Cal for HLDT and HNGS not performed to minimize exposure to vibration in pipe.	

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:	10C0-306		PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

**EQUIPMENT DESCRIPTION**

RUN 1	RUN 2
<b>SURFACE EQUIPMENT</b> SFT-281 24 SFT-178 4722 GSR-U 135 GSR-U/Y	

DOWNHOLE EQUIPMENT	
LEH-QT	35.14
LEH-QT 1726	
CTEM	33.98
TelStatus	
DTC-H	34.25
ECH-KC 9343	33.34
SGT-N	33.06
Gamma Ray	33.34
SGH-K 2448	
SCC TR 0582	



TOOL ZERO

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

## Input DLIS Files

DEFAULT     
 PI\_LDL\_APS\_NGS\_006LUP     
 FN:7     
 PRODUCER     
 08-Mar-2002 11:20     
 349.8 M     
 144.0 M

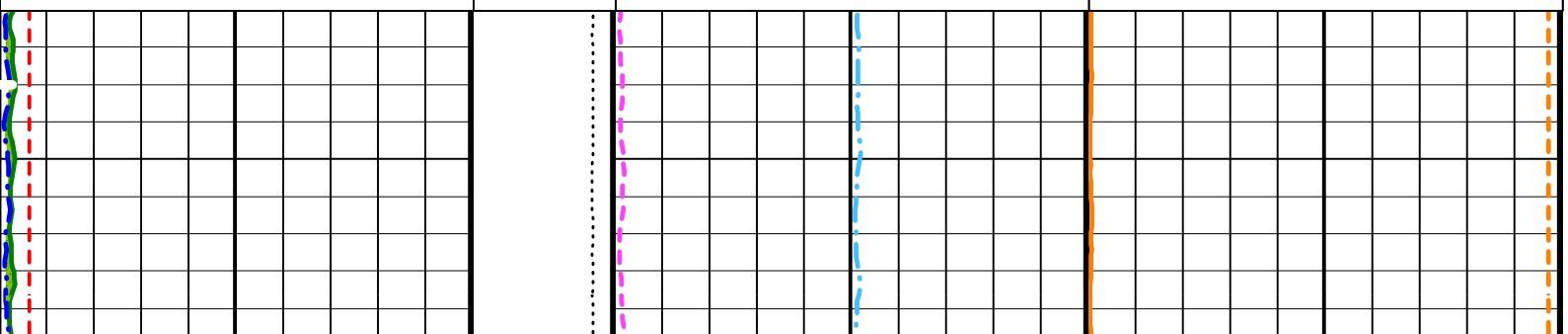
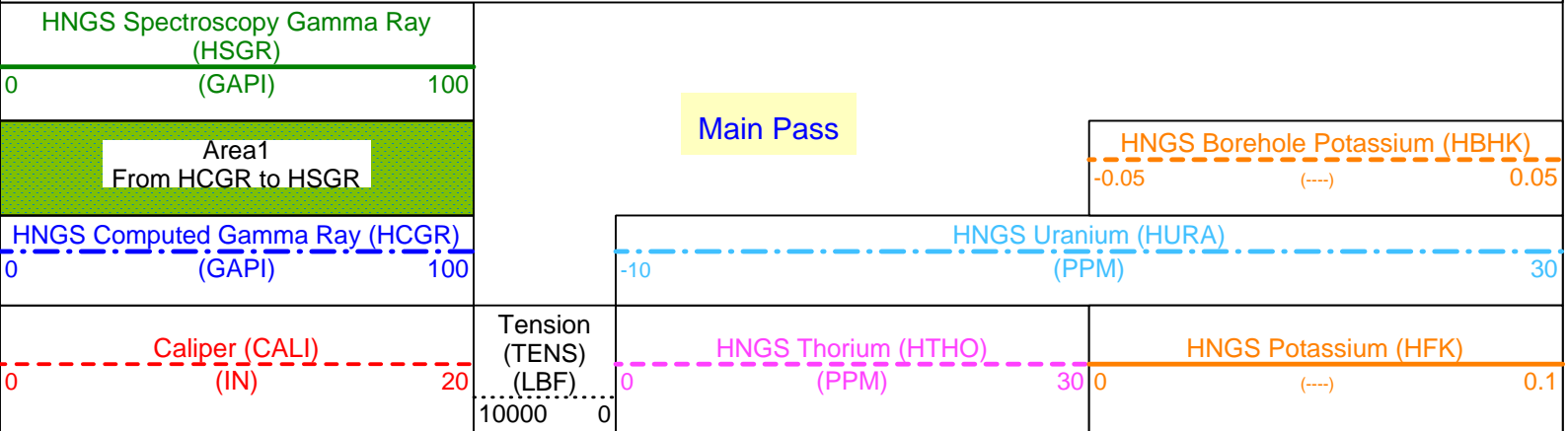
## OP System Version: 10C0-306

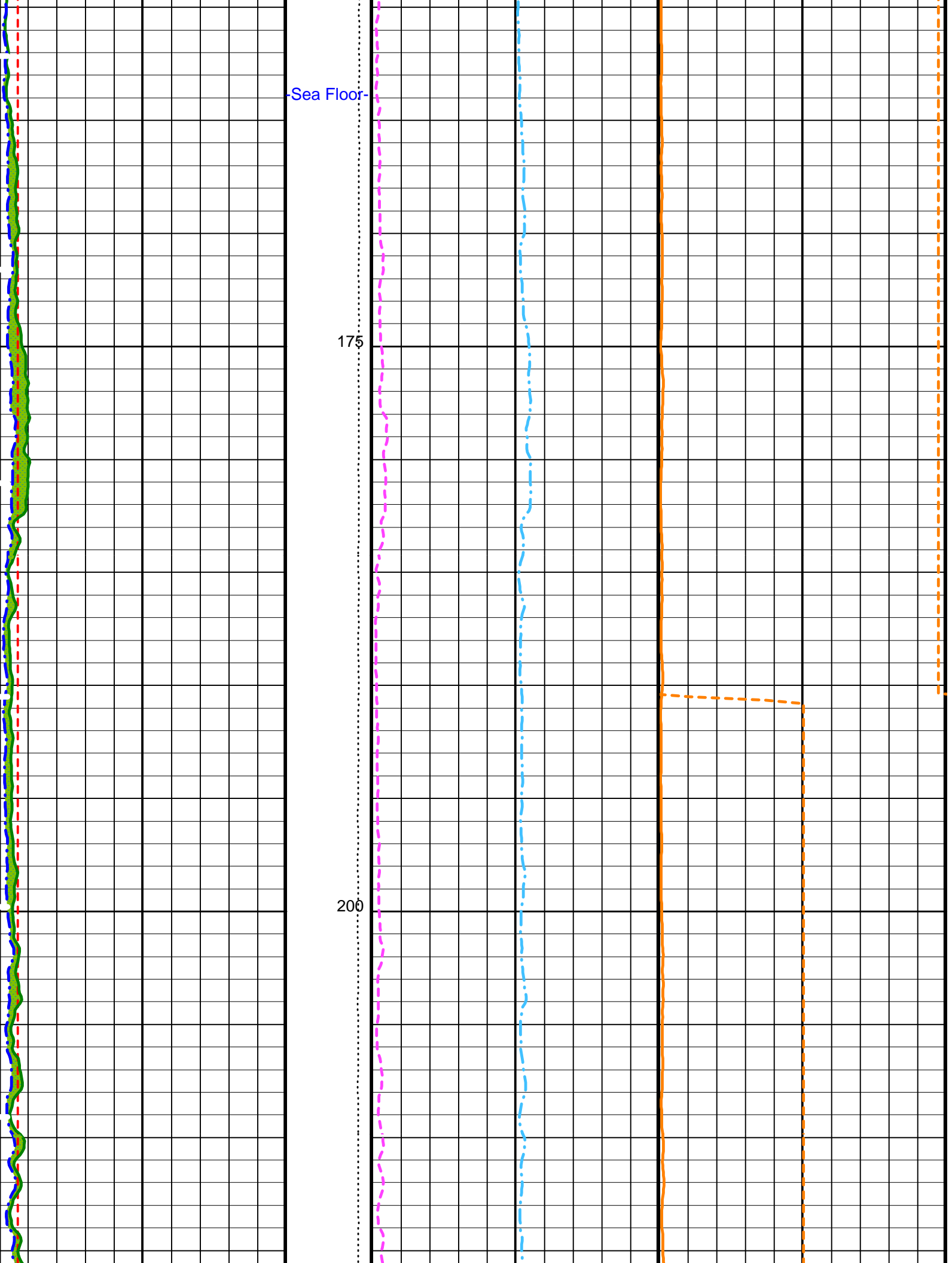
MCM

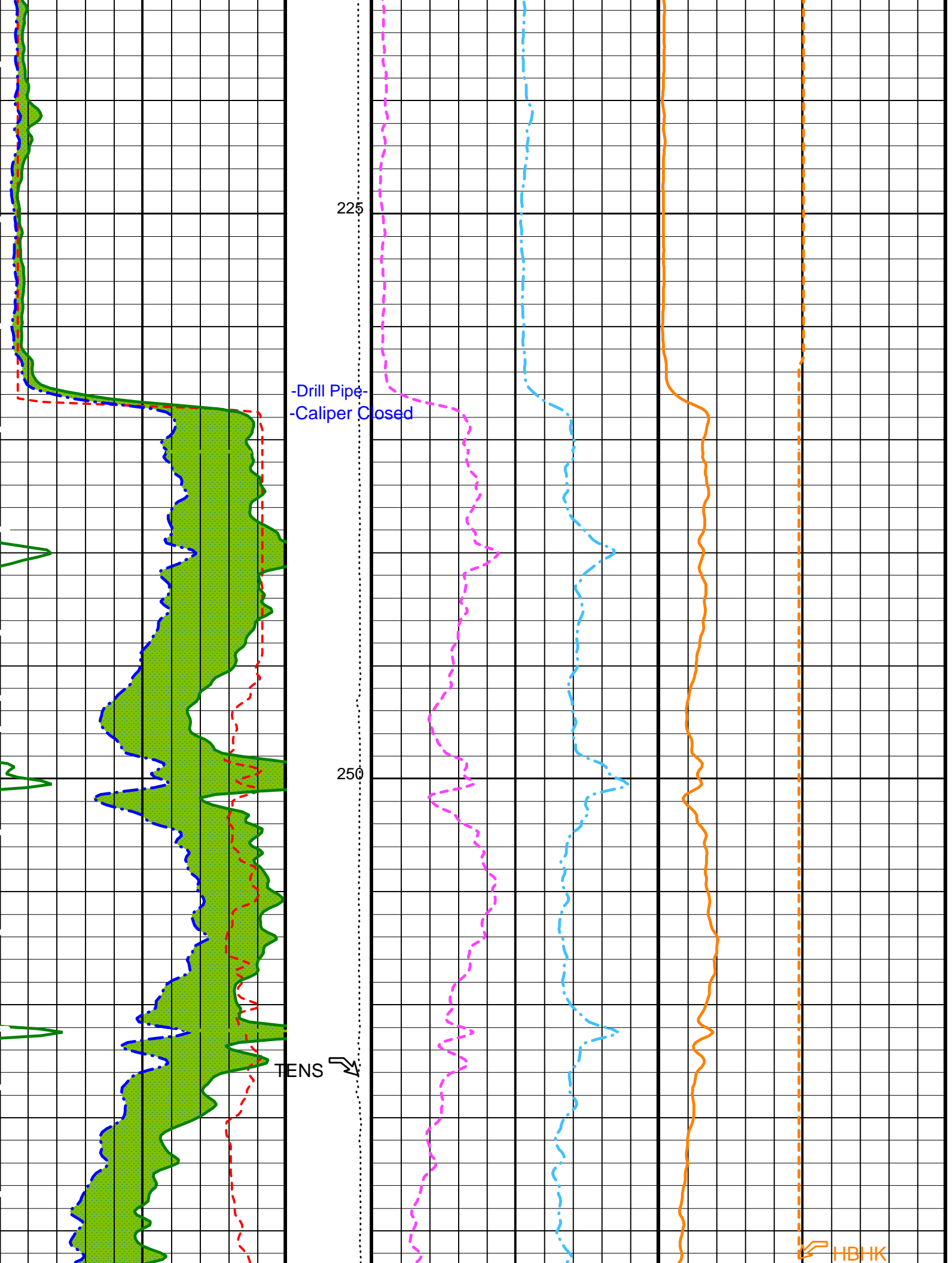
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DTA-A	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
SGT-N	10C0-306	DTC-H	10C0-306

### PIP SUMMARY

Time Mark Every 60 S







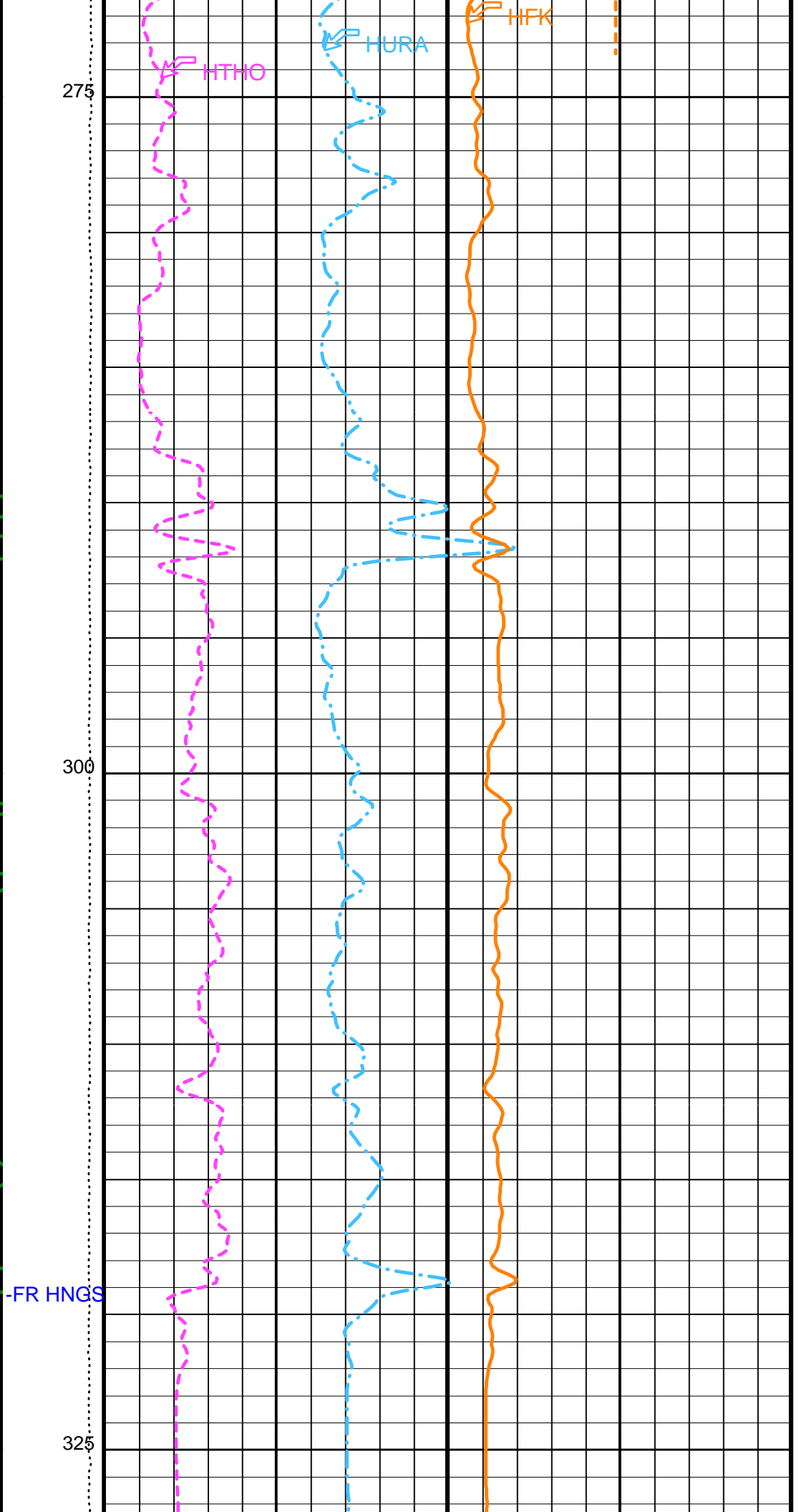
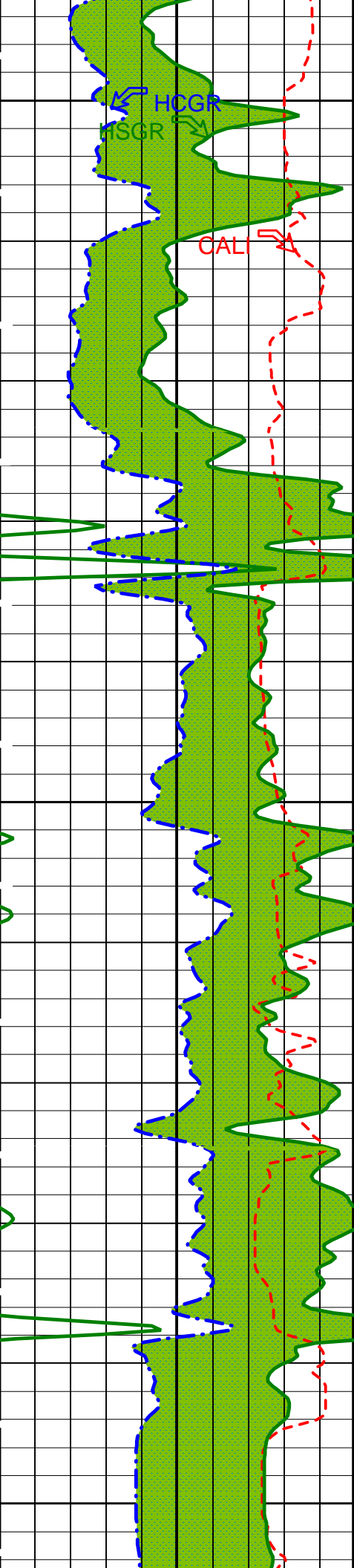
225

-Drill Pipe  
-Caliper Closed

250

TENS

HBHK



HCGR  
HSGR

CALI

-FR HNGS

HTHO

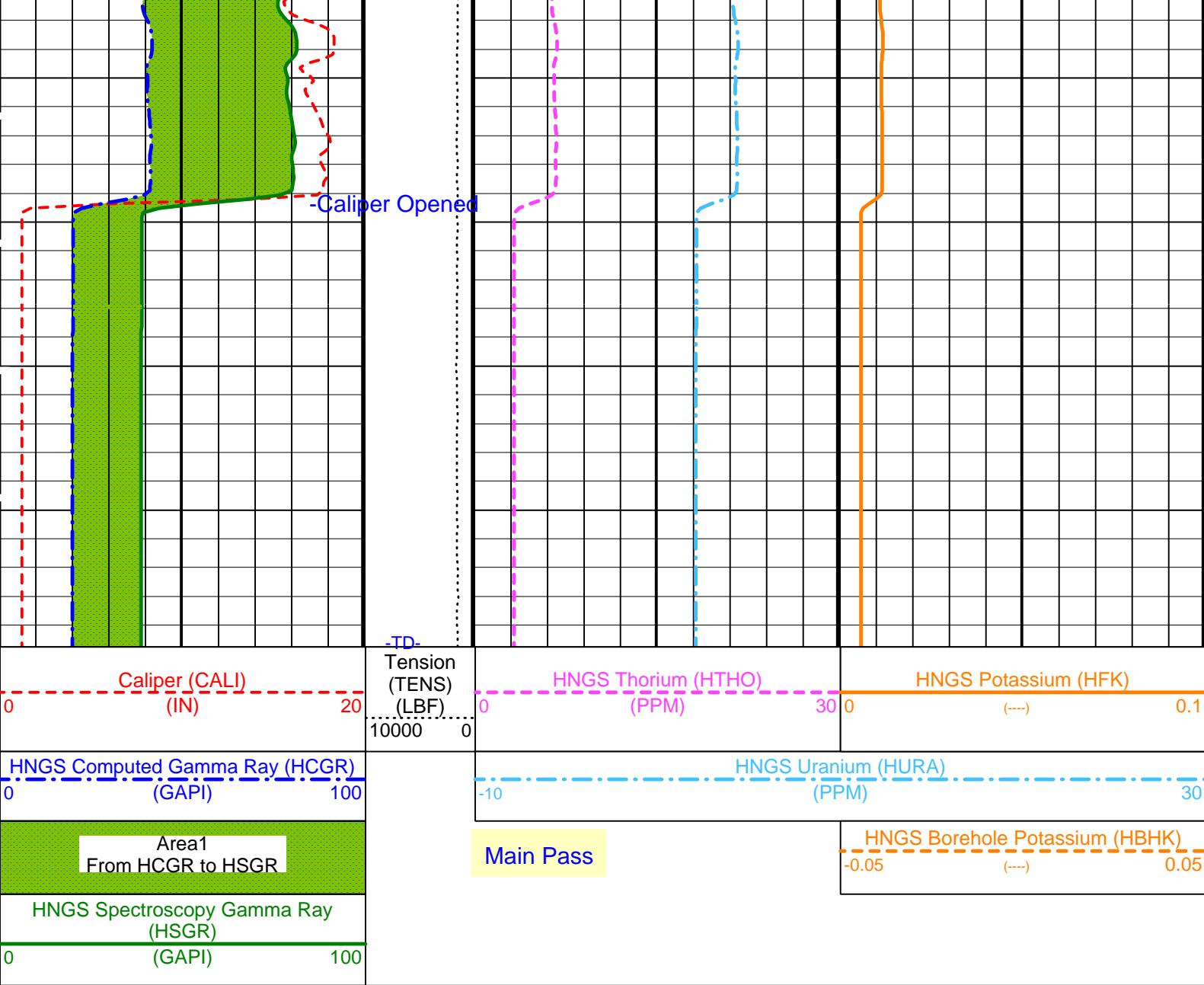
HURA

HFK

275

300

325



PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
BHS	DIT-E: Dual Induction - E	
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	CALI
BHS	APS-BA: Accelerator-Porosity Tool	
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	CALI
BAR1	HNGS-BA: Hostile Natural Gamma Ray Sonde	
BAR2	HNGS Detector 1 Barite Constant	1
BHK	HNGS Detector 2 Barite Constant	1
BHS	HNGS Borehole Potassium Correction Concentration	0
CSD1	Borehole Status	OPEN
CSD2	Inner Casing Outer Diameter	0 IN
CSW1	Outer Casing Outer Diameter	0 IN
CSW2	Inner Casing Weight	0 LB/F
DBCC	Outer Casing Weight	0 LB/F
GCSE	HNGS Barite Constant Correction Flag	NONE
H1P	Generalized Caliper Selection	CALI
H2P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
HABK	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HALF	HNGS Borehole Potassium Running Average	-0.000128346
HCRB	HNGS Alpha Filter Length	60 IN
HMWM	HNGS Apply Borehole Potassium Correction	NONE
HNPE	Mud Weighting Material	NATU
	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	0.972261	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.978066	
SGT-N: Scintillation Gamma-Ray - N			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	CALI	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	CALI	
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-Mar-2002 12:01

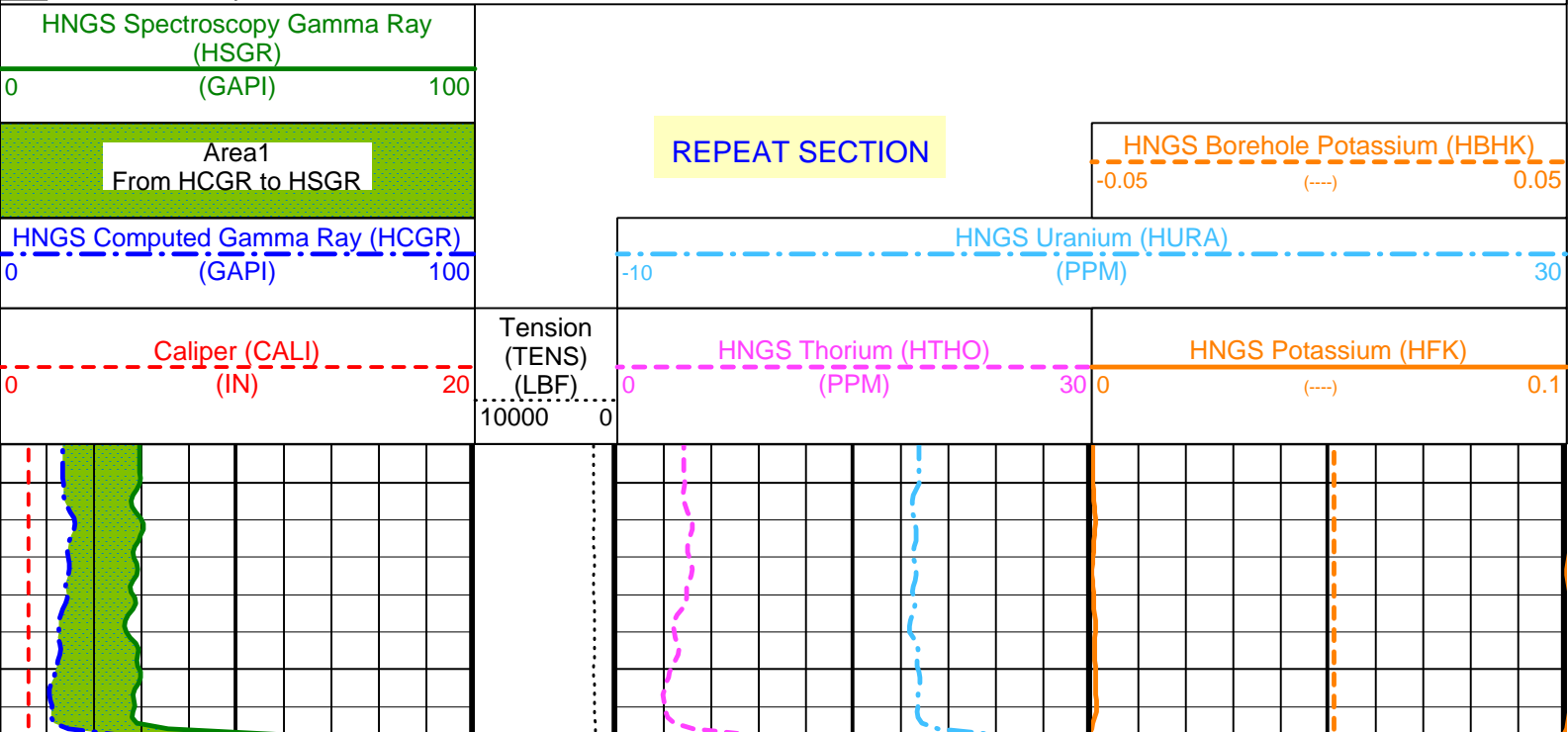
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MCM			
DIT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
SGT-N	10C0-306	DTC-H	10C0-306

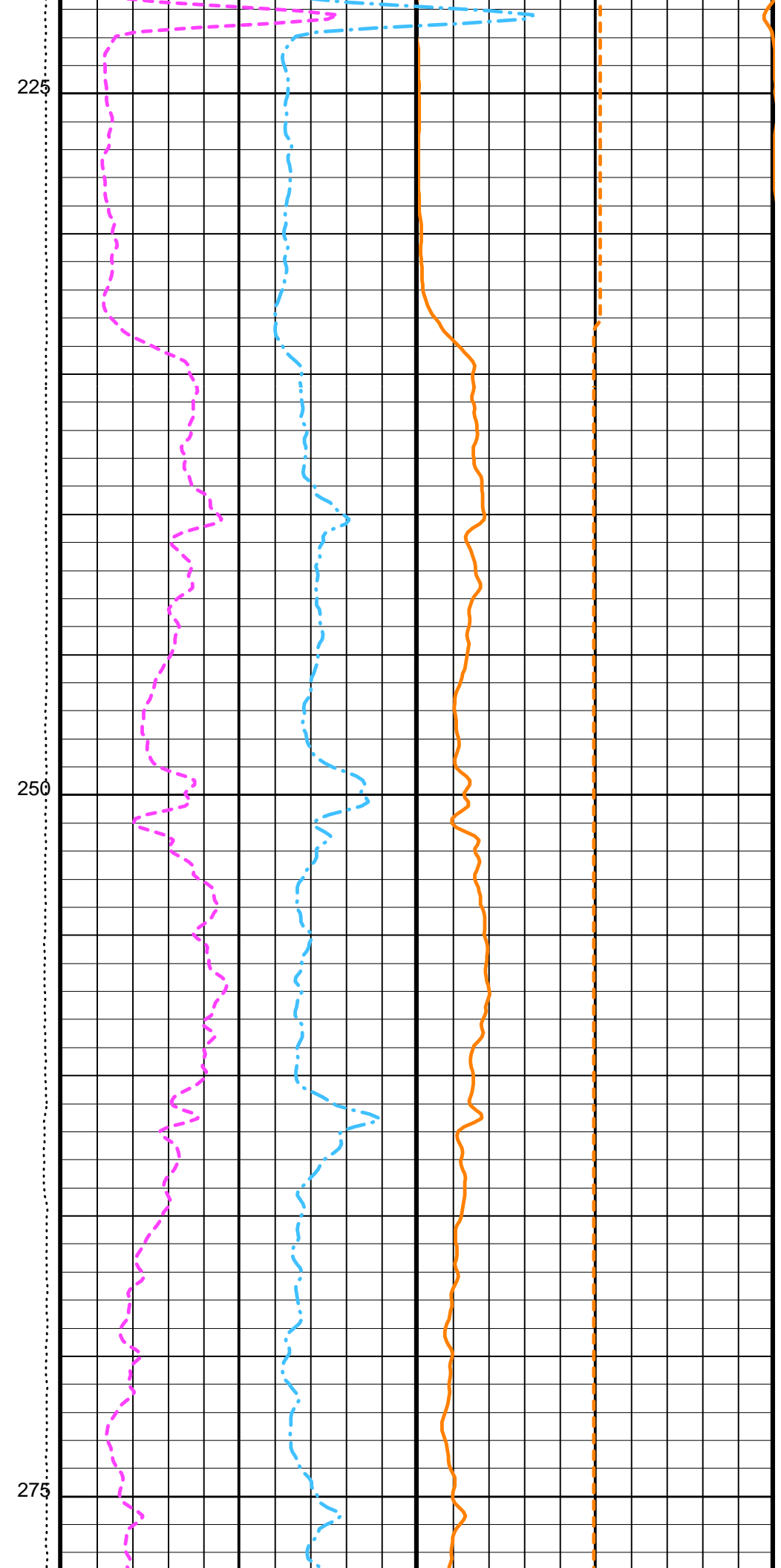
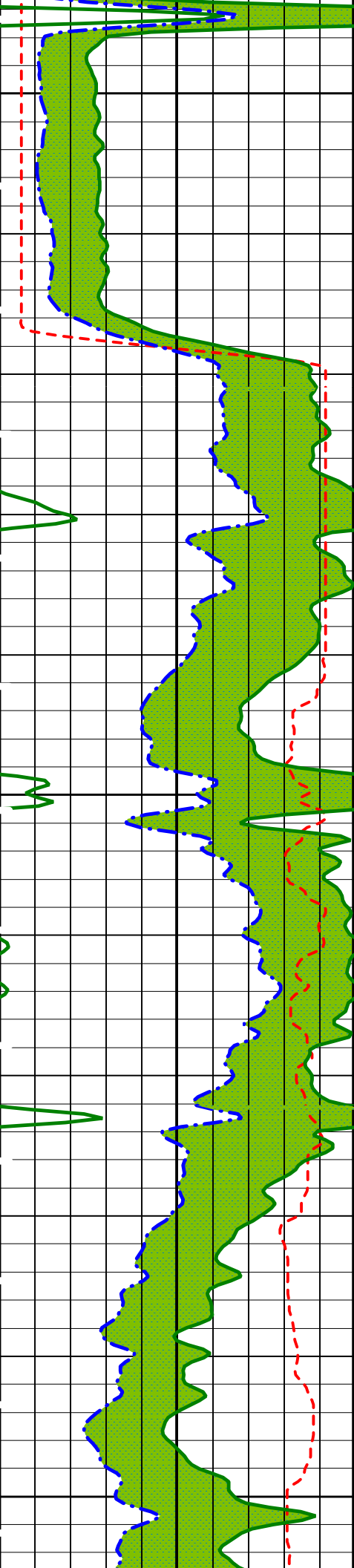
Input DLIS Files						
DEFAULT	PI_LDL_APS_NGS_006LUP	FN:7	PRODUCER	08-Mar-2002 11:20	349.8 M	144.0 M

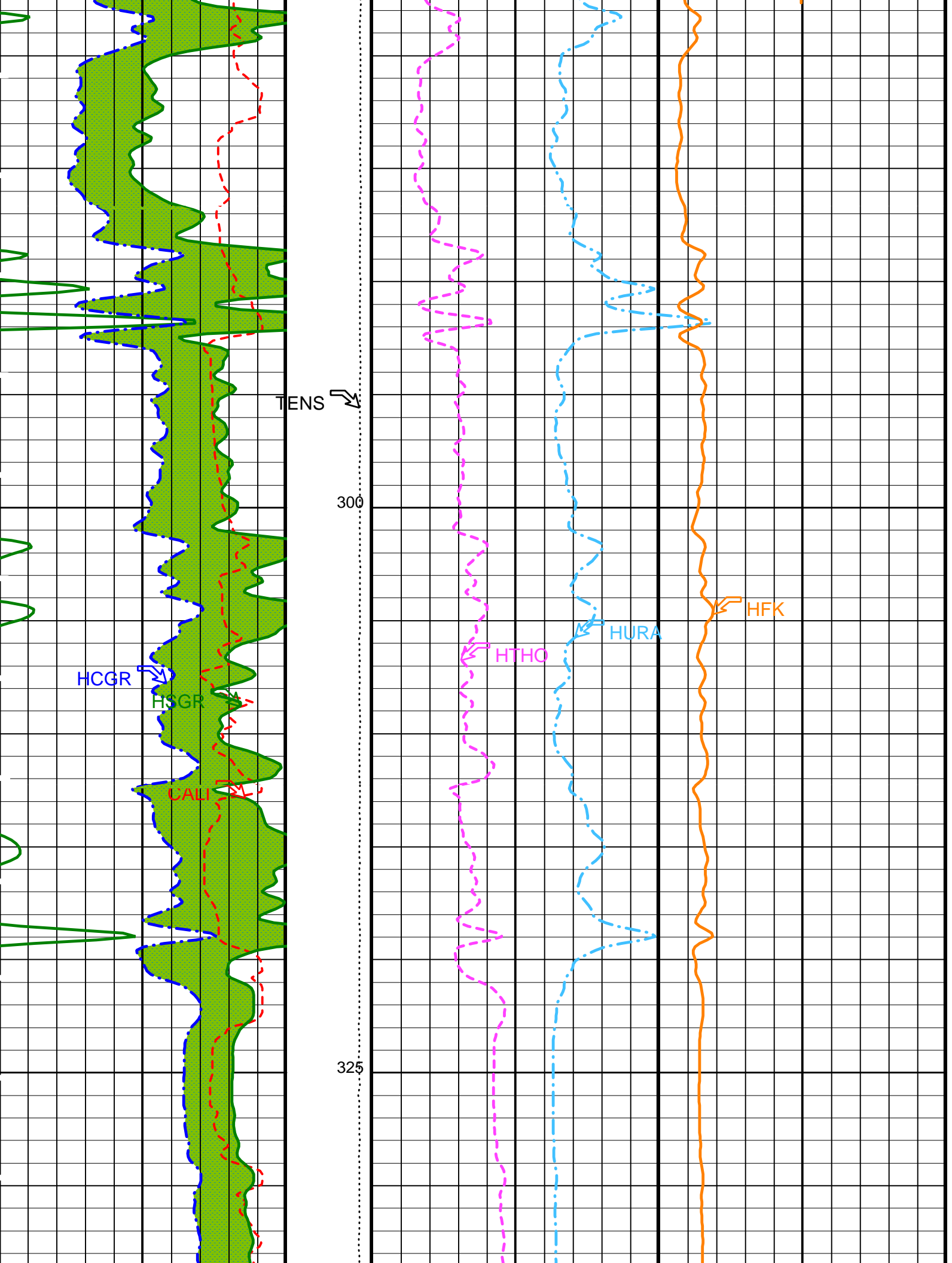
Output DLIS Files						
DEFAULT	PI_LDL_APS_NGS_007LUP	FN:9	PRODUCER	08-Mar-2002 12:07	349.8 M	214.0 M
REDUCE	PI_LDL_APS_NGS_007LUP	FN:10	PRODUCER	08-Mar-2002 12:07	349.8 M	214.0 M

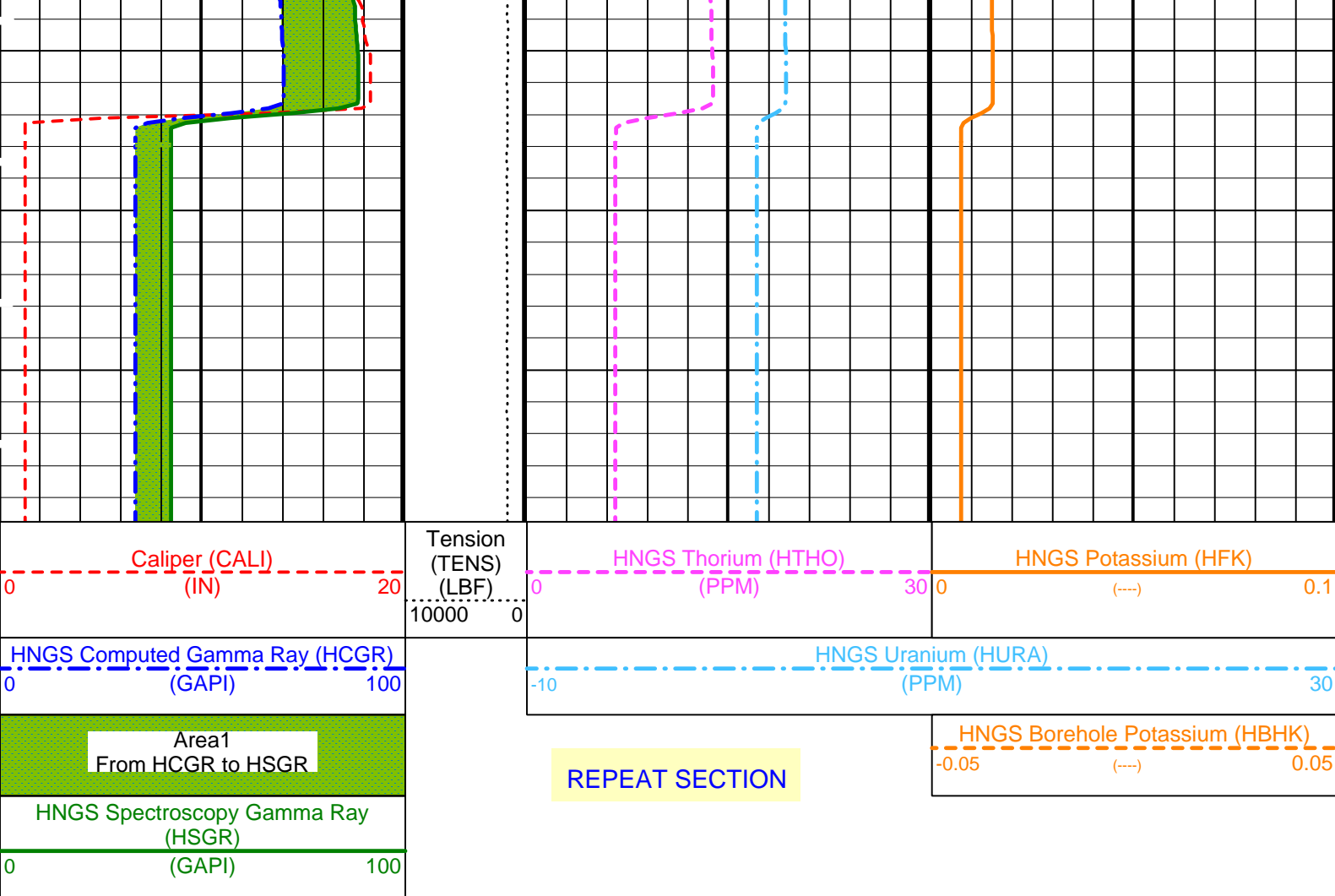
OP System Version: 10C0-306			
MCM			
DIT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
SGT-N	10C0-306	DTC-H	10C0-306

PIP SUMMARY  
 Time Mark Every 60 S









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	CALI	
	APS-BA: Accelerator-Porosity Tool		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	CALI	
	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	CALI	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.0184082	
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	0.91691	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.941448	
	SGT-N: Scintillation Gamma-Ray - N		
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	CALI	

BHS	Integrated Hole/Cement Volume	Borehole Status	OPEN
GCSE	System and Miscellaneous	Generalized Caliper Selection	CALI
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.07	G/C3

Format: HNGSYields    Vertical Scale: 1:200    Graphics File Created: 08-Mar-2002 12:07

## OP System Version: 10C0-306

MCM

DIT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
SGT-N	10C0-306	DTC-H	10C0-306

## Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_007LUP	FN:9	PRODUCER	08-Mar-2002 12:07
REDUCE	PI_LDL_APS_NGS_007LUP	FN:10	PRODUCER	08-Mar-2002 12:07

### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
<b>Hostile Environment Litho Density - A Wellsite Calibration - Background Measurement</b>							
Master: 25-Jan-2002 14:22    Before: 21-Feb-2002 4:36    After: 5-Mar-2002 22:52							
LSW1 Background	100.0	89.06	86.19	87.32	1.128	0.03000	CPS
LSW2 Background	105.0	93.23	91.94	90.71	-1.232	0.03000	CPS
LSW3 Background	210.0	180.0	177.0	178.4	1.437	0.03000	CPS
LSW4 Background	290.0	237.9	235.4	238.9	3.481	0.03000	CPS
LSW5 Background	610.0	529.6	525.7	522.6	-3.155	0.03000	CPS
SSW1 Background	100.0	85.18	85.99	84.17	-1.819	0.03000	CPS
SSW2 Background	200.0	166.8	165.6	166.6	1.022	0.03000	CPS
SSW3 Background	530.0	446.5	445.9	443.9	-1.961	0.03000	CPS
SSW4 Background	280.0	235.8	234.2	234.2	-0.04904	0.03000	CPS
SSW5 Background	205.0	176.3	175.5	177.2	1.732	0.03000	CPS
<b>Hostile Environment Litho Density - A Wellsite Calibration - Tool Quality Control Information High Voltage</b>							
Master: 25-Jan-2002 14:22    Before: 21-Feb-2002 4:36    After: 5-Mar-2002 22:52							
LS Bkg. High Voltage	1129	1129	1134	1134	0.3507	N/A	V
SS Bkg. High Voltage	1173	1173	1180	1176	-4.078	N/A	V
<b>Hostile Environment Litho Density - A Wellsite Calibration - Detectors Resolution From BKG Measurements</b>							
Master: 25-Jan-2002 14:22    Before: 21-Feb-2002 4:36    After: 5-Mar-2002 22:52							
LS Background Resolution	1.000	1.042	1.032	1.021	-0.01052	N/A	
SS Background Resolution	1.000	0.9530	0.9479	0.9514	0.003475	N/A	
<b>Hostile Environment Litho Density - A Wellsite Calibration - Caliper Calibration</b>							
Before: 7-Feb-2002 1:47							
Caliper Small Ring	12.00	N/A	16.99	N/A	N/A	N/A	IN
Caliper Large Ring	18.25	N/A	23.87	N/A	N/A	N/A	IN
<b>Accelerator-Porosity Tool Wellsite Calibration - Detector Background</b>							
Master: 25-Jan-2002 18:34    Before: 8-Mar-2002 10:51    After: 8-Mar-2002 13:05							
Near Det Bkg Cntrate	30.00	32.90	31.34	32.29	0.9483	N/A	CPS
Far Det Bkg Cntrate	30.00	34.46	53.89	35.56	-18.33	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.56	29.57	30.20	0.6238	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.78	30.44	32.00	1.562	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.89	32.54	34.04	1.503	N/A	CPS
<b>Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios</b>							
Master: 25-Jan-2002 18:35							
Near/Far Calibration Ratio	0.9250	0.9022	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.063	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.007	N/A	N/A	N/A	N/A	
<b>Accelerator-Porosity Tool Wellsite Calibration - Tank Check</b>							
Master: Calibration not done							
Array-1 Standoff Porosity	11.10	11.94	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.10	11.71	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	N/A	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	N/A	N/A	N/A	N/A	N/A	
Array-1 SDT Ratio Up/Down	1.000	N/A	N/A	N/A	N/A	N/A	

Sigma Formation	27.50	27.64	N/A	N/A	N/A	N/A	CU
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 23-Jan-2002 11:37 Before: 7-Feb-2002 1:13							
Na 511 Peak Loc	40.00	40.51	40.71	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.75	17.24	N/A	N/A	2.000	%
High Voltage	1150	1203	1207	N/A	N/A	30.00	V
Na 1785 Peak Loc	142.6	144.6	146.2	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.254	9.073	N/A	N/A	2.000	%
Temperature	15.50	21.86	29.34	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	39.29	40.56	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 23-Jan-2002 11:37 Before: 7-Feb-2002 1:13							
Na 511 Peak Loc	40.00	40.54	40.54	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.19	16.67	N/A	N/A	2.000	%
High Voltage	1150	1233	1236	N/A	N/A	30.00	V
Na 1785 Peak Loc	142.6	143.9	144.1	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.453	8.968	N/A	N/A	2.000	%
Temperature	15.50	21.24	29.04	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	39.11	40.36	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2							
Master: 23-Jan-2002 11:37 Before: 7-Feb-2002 1:13							
Coincidence Count Rate Ratio	1.000	1.004	1.005	N/A	N/A	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration							
Master: 23-Jan-2002 11:31							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.7	--	--	--	--	
Th Peak Res	7.000	7.364	--	--	--	--	%
Background Count Rate	142.5	19.66	--	--	--	--	CPS
Gain Ratio	1.000	0.9848	--	--	--	--	
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration							
Master: 23-Jan-2002 11:31							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	208.7	--	--	--	--	
Th Peak Res	7.000	7.834	--	--	--	--	%
Background Count Rate	142.5	17.61	--	--	--	--	CPS
Gain Ratio	1.000	0.9795	--	--	--	--	
Scintillation Gamma-Ray - N Wellsite Calibration - Detector Calibration							
Before: Calibration out of date 7-Feb-2002 1:09 After: Calibration not done							
Gamma Ray (Jig - Bkg)	167.5	N/A	167.5	N/A	N/A	0.09091	GAPI
Gamma Ray (Calibrated)	165.0	N/A	165.0	N/A	N/A	15.00	GAPI

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting 1748 V  
Far Detector Plateau Setting 2052 V  
Array Detector Plateau Setting 1969 V

Dual Induction - E / Equipment Identification		
Primary Equipment:		
Dual Induction Sonde	DIS - HB	442
Dual Induction Cartridge	DIC - EB	438
Auxiliary Equipment:		
Mass Isolated Housing	MIH - ZA	417

Hostile Environment Litho Density - A / Equipment Identification		
Primary Equipment:		
HOSTILE ENVIRONMENT LITHO DENSITY HIGH V	HLDV - A	10
HOSTILE ENVIRONMENT LITHO DENSITY CARTRI	HLDC - AA	11
Gamma Source Radioactive	GSR - Z	1846
Auxiliary Equipment:		
HOSTILE ENVIRONMENT LITHO DENSITY SONDE	HLDS - B	10
HOSTILE ENVIRONMENT ELECTRONICS CARTRIDG	HEH - H	12
HOSTILE ENVIRONMENT ELECTRONICS CARTRIDG	HEH - G	11

Nuclear Porosity Lithology Cartridge - B / Equipment Identification

Primary Equipment:			
NPLC Cartridge	NPLC - B	79	
Auxiliary Equipment:			
NPLC Housing	NPH - B	82	

Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:			
Accelerator-Porosity Sonde	APS - BA	22	
APS Minitron	MNTR - F	4185	
Auxiliary Equipment:			
Accelerator-Porosity Housing	APH - AC	22	
APS Calibration Water Tank	SFT - 178	4722	
APS Aluminium Calibrator Sleeve	SFT - 281	24	

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:			
HNGS Sonde	HNGS - BA	77	
Auxiliary Equipment:			
HNGS Sonde Housing	HNSH - BA	79	
Gamma Source Radioactive	GSR - U	135	

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		40.51	Master		15.75	Master		1203	
Before		40.71	Before		17.24	Before		1207	
	37.50 (Minimum) 40.00 (Nominal) 42.50 (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		144.6	Master		9.254	Master		21.86	
Before		146.2	Before		9.073	Before		29.34	
	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		39.29							
Before		40.56							
	15.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								
Master: 23-Jan-2002 11:37			Before: 7-Feb-2002 1:13						

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		40.54	Master		16.19	Master		1233
Before		40.54	Before		16.67	Before		1236
	37.50 (Minimum) 40.00 (Nominal) 42.50 (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		143.9	Master		9.453	Master		21.24
Before		144.1	Before		8.968	Before		29.04
	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		39.11
Before		40.36
	15.00 (Minimum)    45.00 (Nominal)    100.0 (Maximum)	

Master: 23-Jan-2002 11:37      Before: 7-Feb-2002 1:13

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		1.004
Before		1.005
	0.9500 (Minimum)    1.000 (Nominal)    1.050 (Maximum)	

Master: 23-Jan-2002 11:37  
Before: 7-Feb-2002 1:13

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		209.7	Master		7.364
	38.00 (Minimum)    40.00 (Nominal)    42.00 (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	<b>See Remarks</b>		
Master	<b>EXCEEDS LIMIT</b>	19.66	Master		0.9848			
	20.00 (Minimum)    142.5 (Nominal)    265.0 (Maximum)			0.9400 (Minimum)    1.000 (Nominal)    1.060 (Maximum)				

Master: 23-Jan-2002 11:31

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		208.7	Master		7.834
	38.00 (Minimum)    40.00 (Nominal)    42.00 (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	<b>See Remarks</b>		
Master	<b>EXCEEDS LIMIT</b>	17.61	Master		0.9795			
	20.00 (Minimum)    142.5 (Nominal)    265.0 (Maximum)			0.9400 (Minimum)    1.000 (Nominal)    1.060 (Maximum)				

Master: 23-Jan-2002 11:31

Scintillation Gamma-Ray - N / Equipment Identification		
<b>Primary Equipment:</b>		
Scintillation Gamma Cartridge	SGC - TB	9582
Scintillation Gamma Detector	SGD - TAA	
<b>Auxiliary Equipment:</b>		
Scintillation Gamma Housing	SGH - K	2448
Gamma Source Radioactive	GSR - U/Y	



Well: ODP Leg 201, Site 1229A PRU-1A  
Field: Peru Margin  
Rig: JOIDES Resolution  
Ocean: Pacific

Natural Gamma Ray  
Spectroscopy (HNGS)