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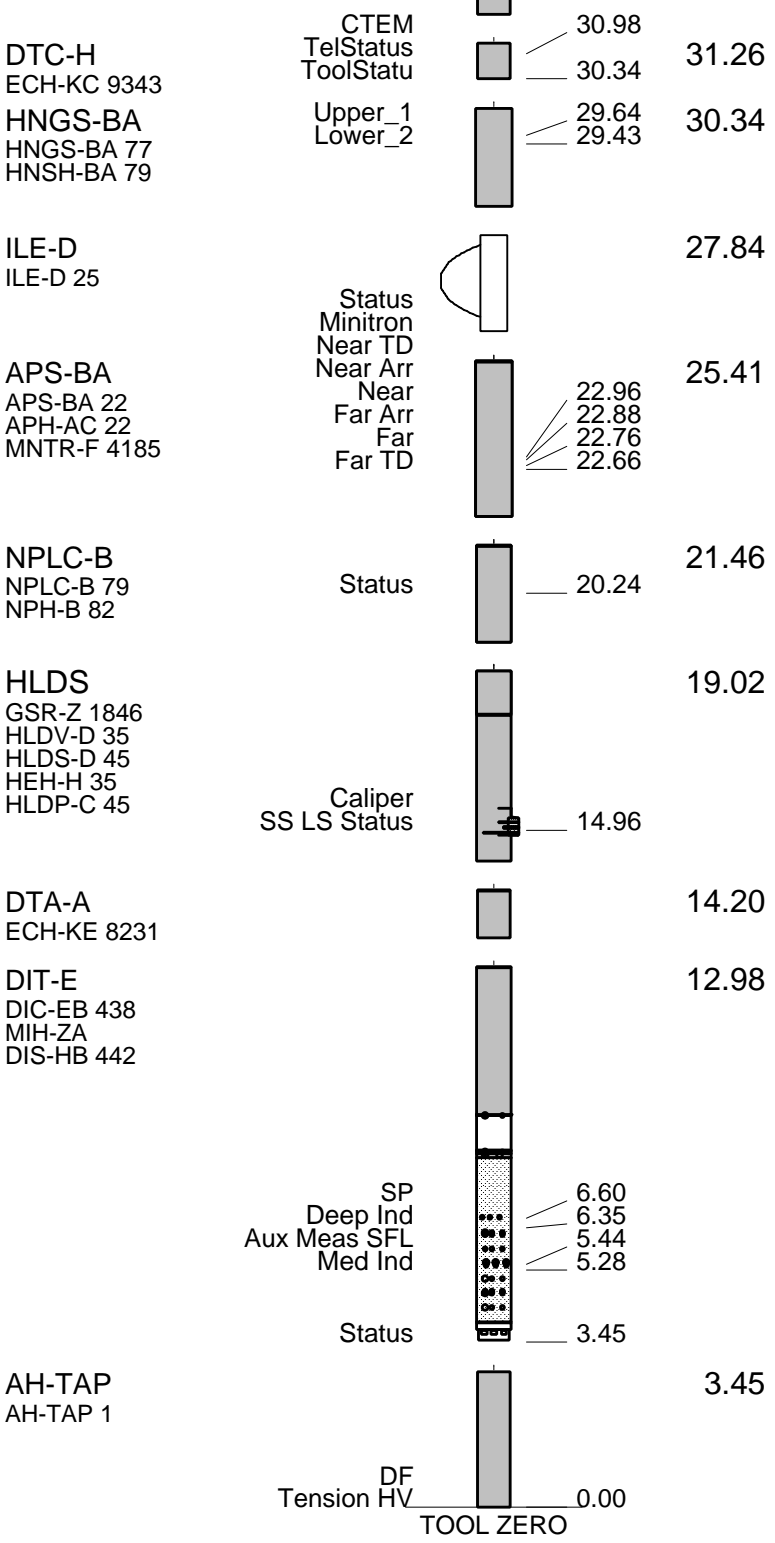
OTHER SERVICES1 OS1: FMS/LSS OS2: HLDS/APS OS3: WST OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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REMARKS: RUN NUMBER 1 Hole cored with APS/XCB, 11 7/16 bit. Sea Floor at:2962 mbrf. Log measured in meters below rig floor. Lamont TAP tool run at bottom of DITE for temperature/pressure data. Wireline heave compensator used on all runs. Sepiolite mud was used to displace the hole. Driller TD= 3246 mbrf. Schlumberger TD= 3249 mbrf. Drill pipe Schlumberger= 3036mbrf. See Lamont TAP tool for bottom hole temperature.	REMARKS: RUN NUMBER 2
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RUN 1 SERVICE ORDER #: PROGRAM VERSION: 10C0-306 FLUID LEVEL:			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

**EQUIPMENT DESCRIPTION**

RUN 1 <b>SURFACE EQUIPMENT</b> SFT-281 24 SFT-178 4722 GSR-U 135 WITM (DTS)-A		RUN 2	
<b>DOWNHOLE EQUIPMENT</b>			
LEH-QT		37.79	
AH-MGT		36.90	



TOOL ZERO

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

## Output DLIS Files

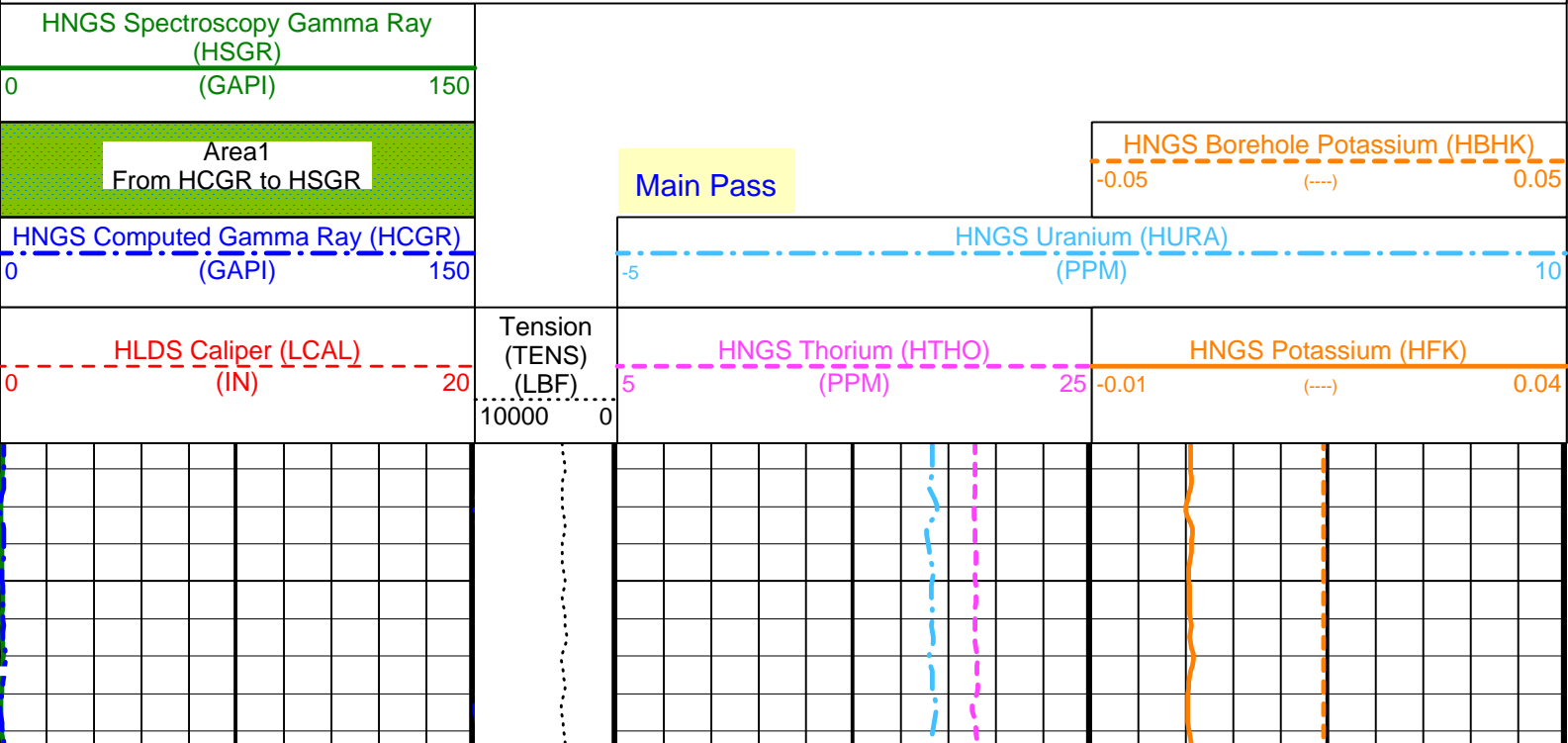
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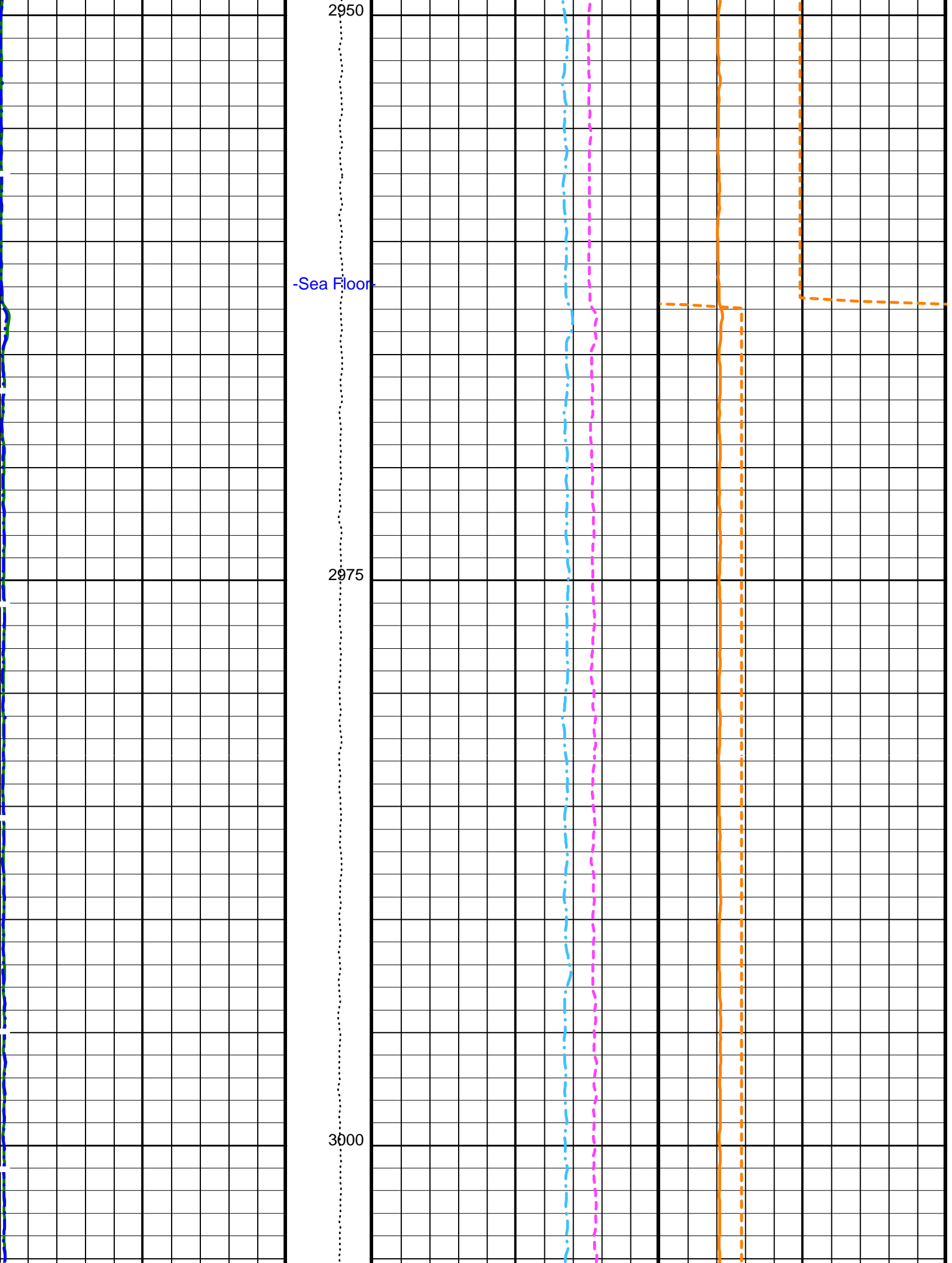
## OP System Version: 10C0-306 MCM

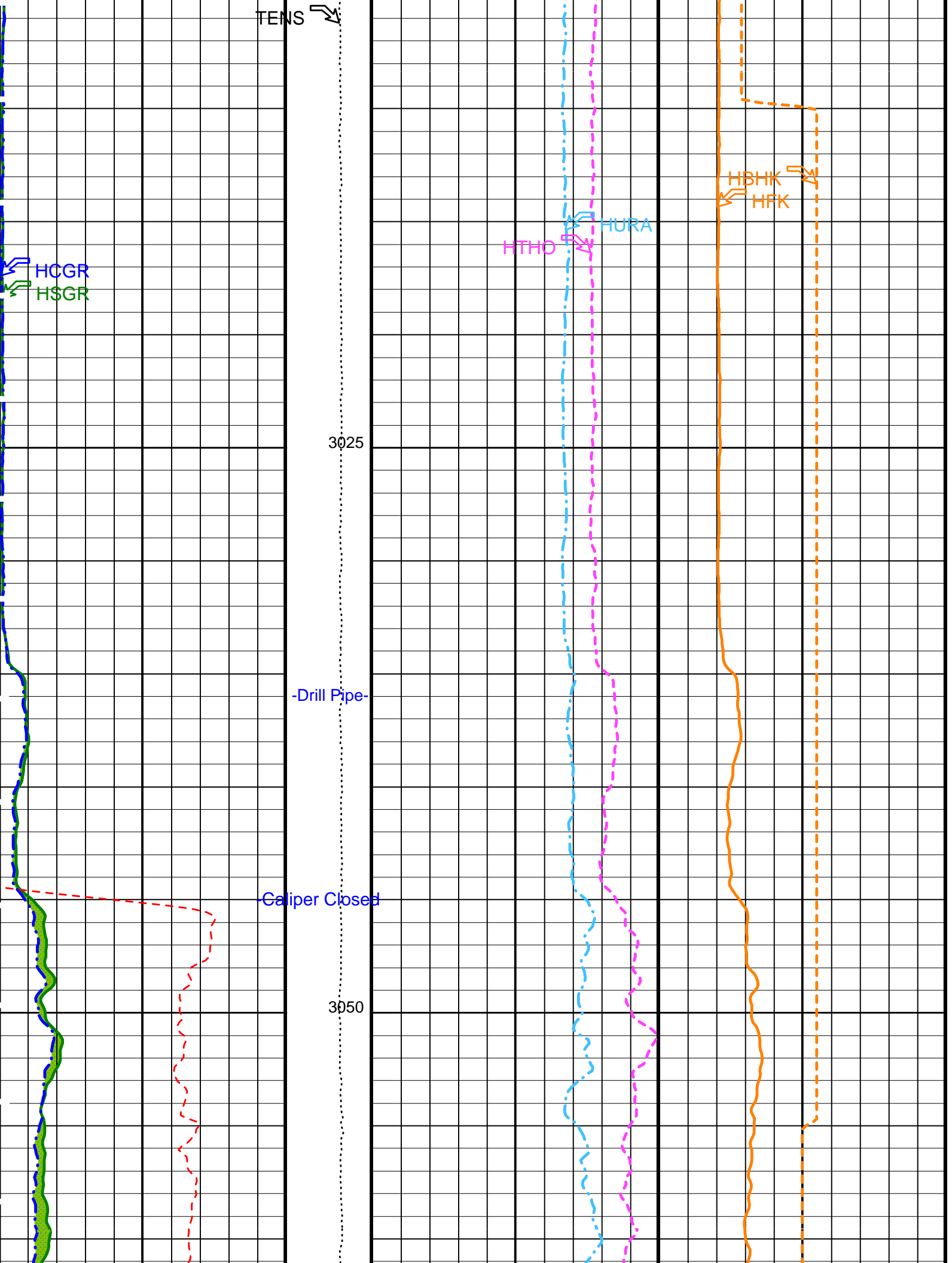
DIT-E	10C0-306	DTA-A	10C0-306
HLDS	SPC-2277-NUCL_b	NPLC-B	OP10-KP1
APS-BA	SPC-2277-NUCL_b	HNGS-BA	SPC-2277-NUCL_b
DTC-H	10C0-306		

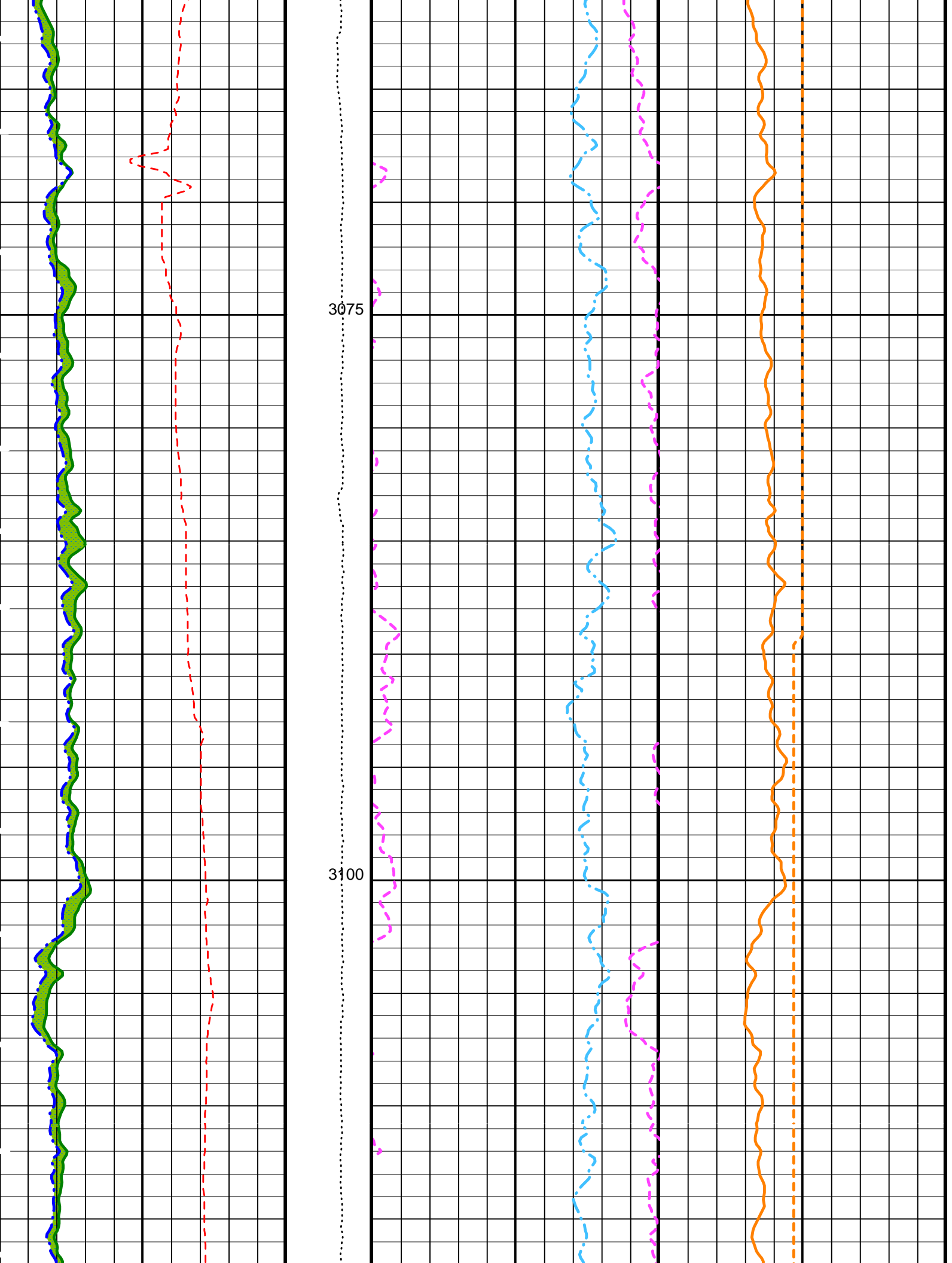
### PIP SUMMARY

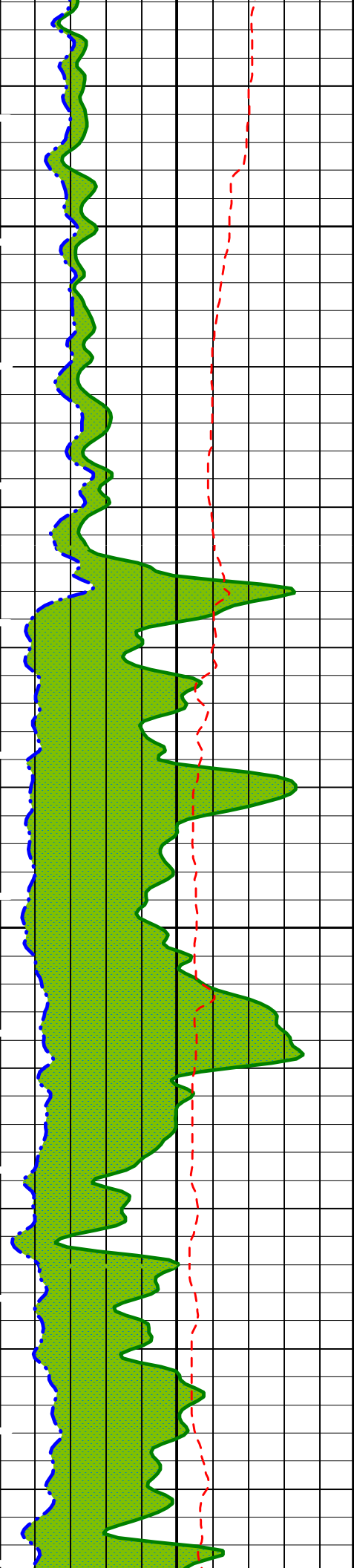
Time Mark Every 60 S





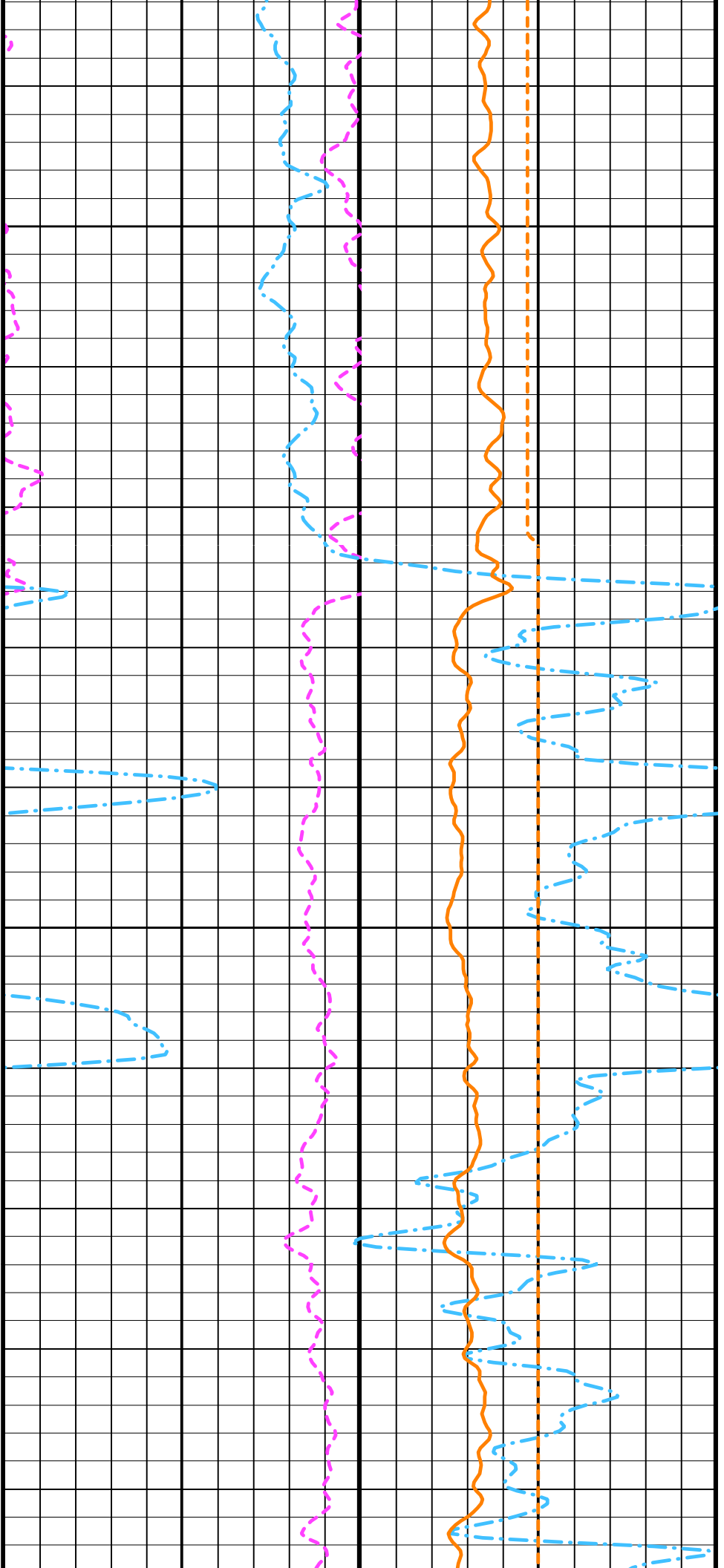




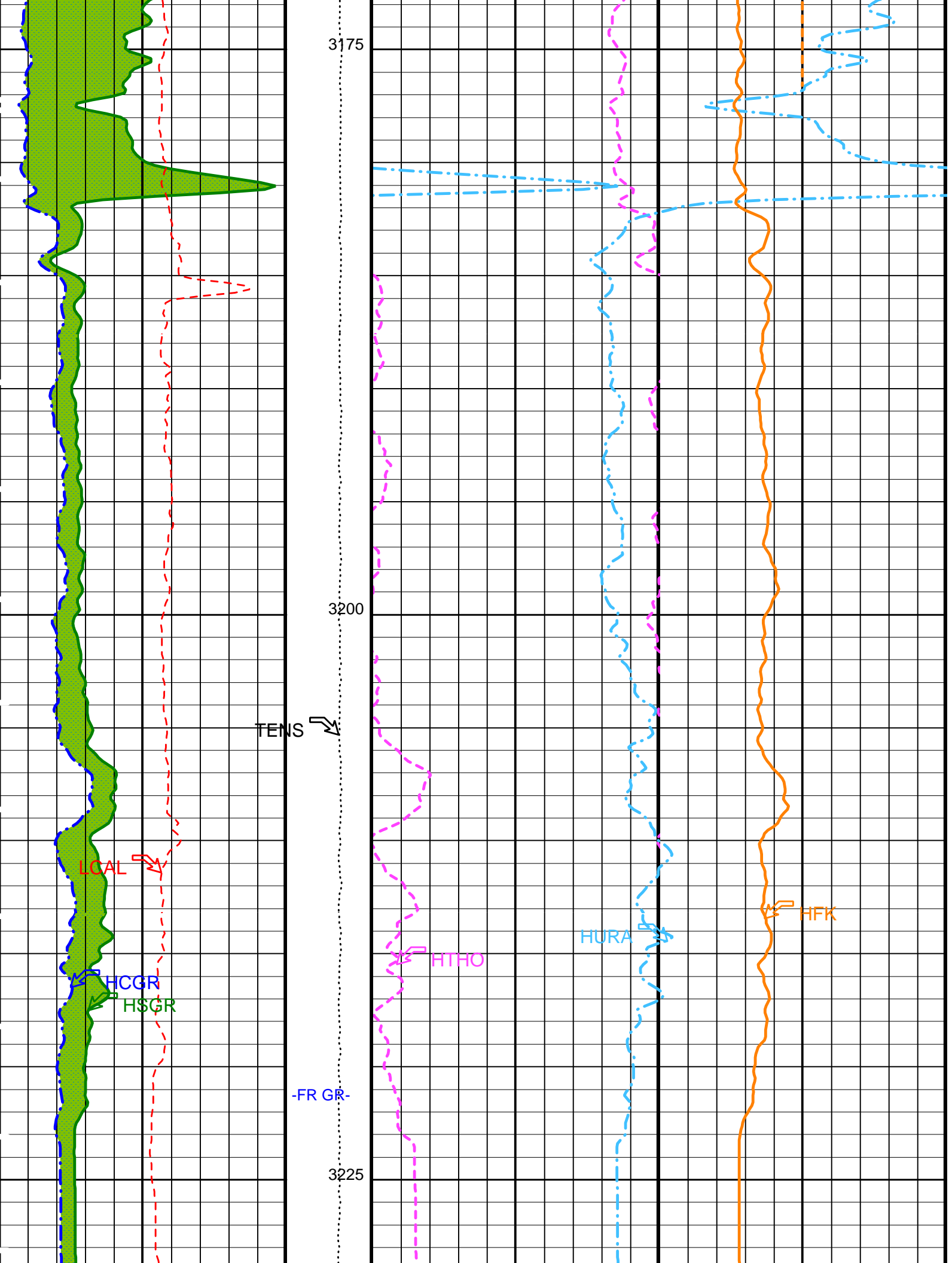


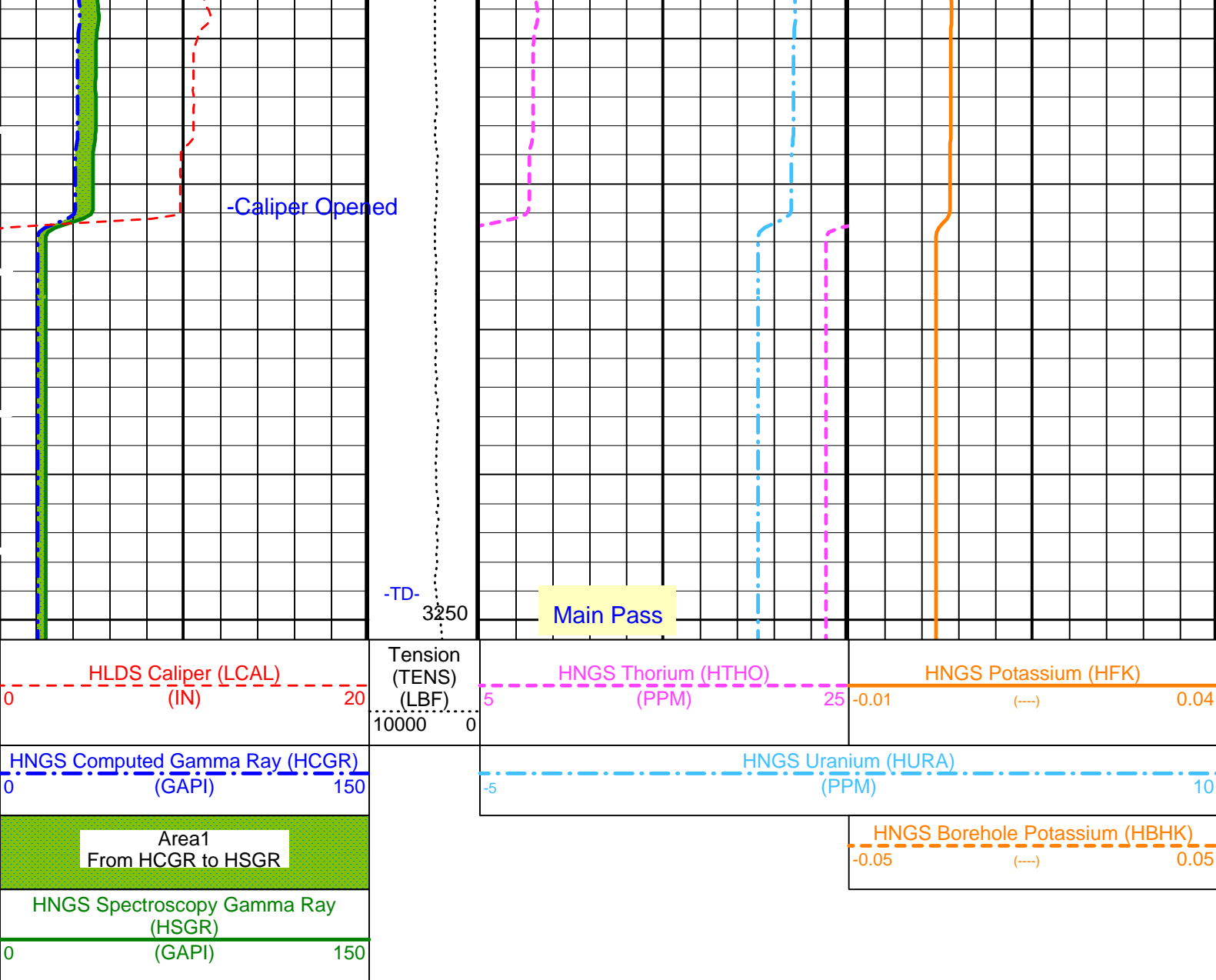
3125

3150









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-BA: 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	-0.000331568
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	-999 25 CPS

S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.734507	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.776573	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.10	G/C3

Format: HNGSYields    Vertical Scale: 1:200    Graphics File Created: 18-Jan-2003 18:53

### OP System Version: 10C0-306

MCM

DIT-E	10C0-306	DTA-A	10C0-306
HLDS	SPC-2277-NUCL_b	NPLC-B	OP10-KP1
APS-BA	SPC-2277-NUCL_b	HNGS-BA	SPC-2277-NUCL_b
DTC-H	10C0-306		

### Output DLIS Files

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### Output DLIS Files

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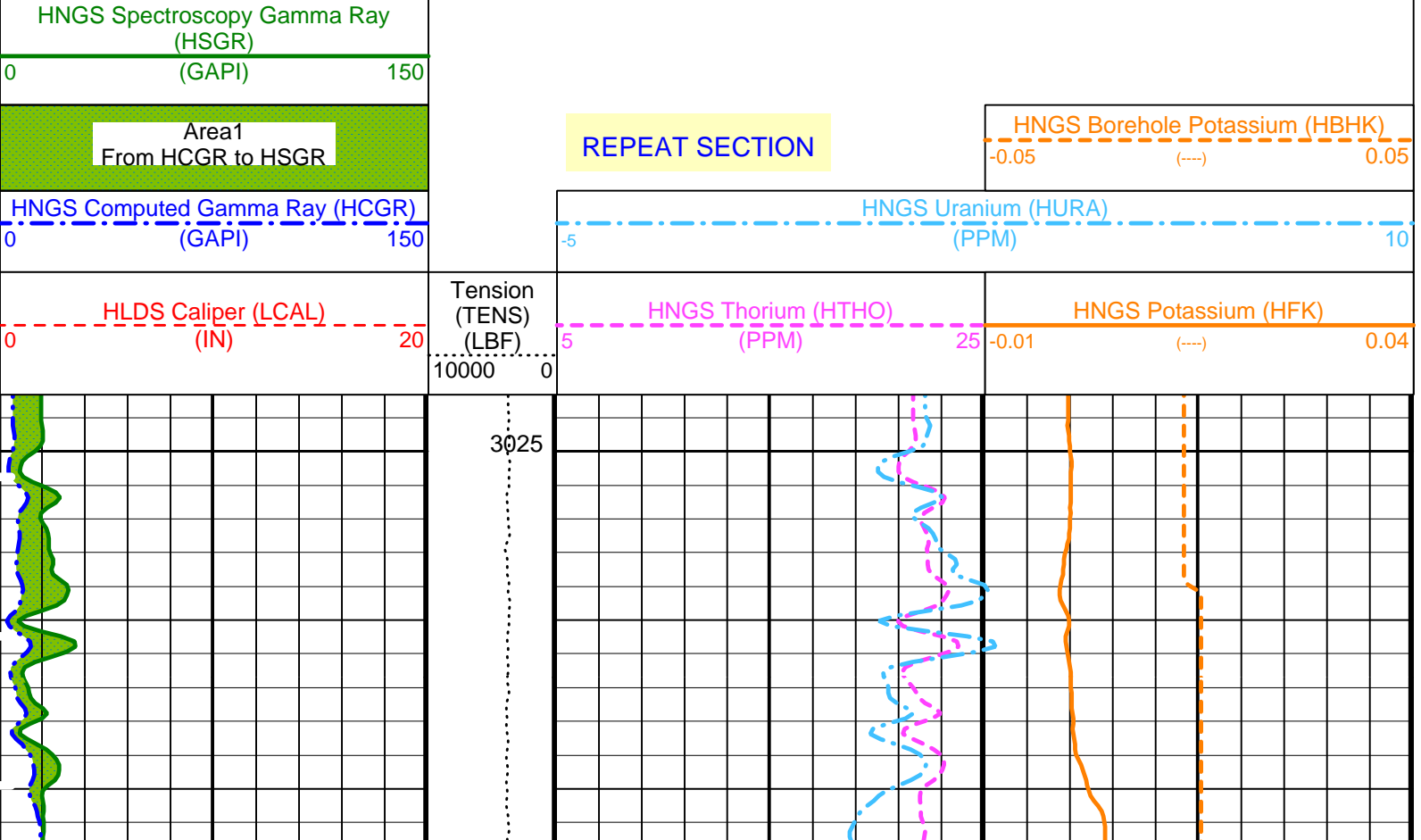
### OP System Version: 10C0-306

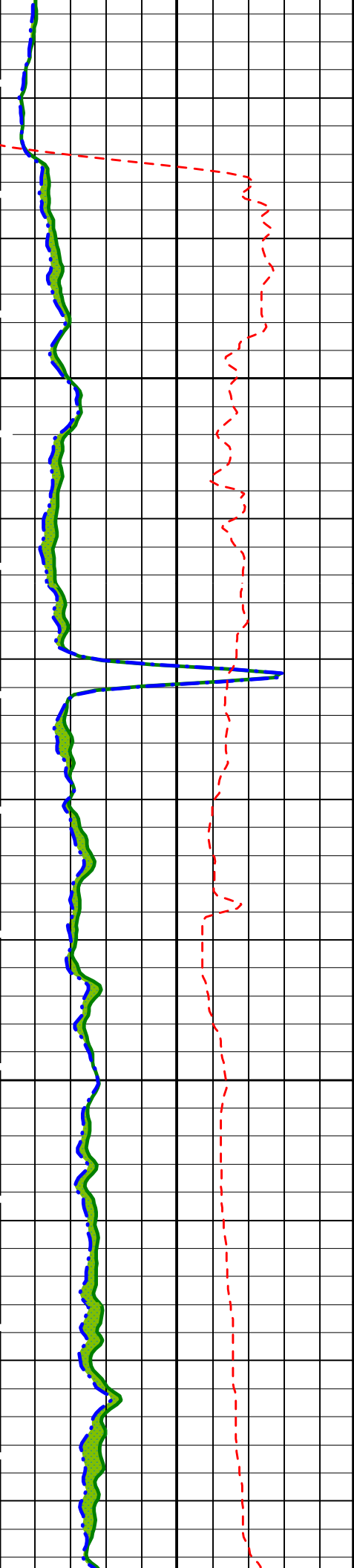
MCM

DIT-E	10C0-306	DTA-A	10C0-306
HLDS	SPC-2277-NUCL_b	NPLC-B	OP10-KP1
APS-BA	SPC-2277-NUCL_b	HNGS-BA	SPC-2277-NUCL_b
DTC-H	10C0-306		

### PIP SUMMARY

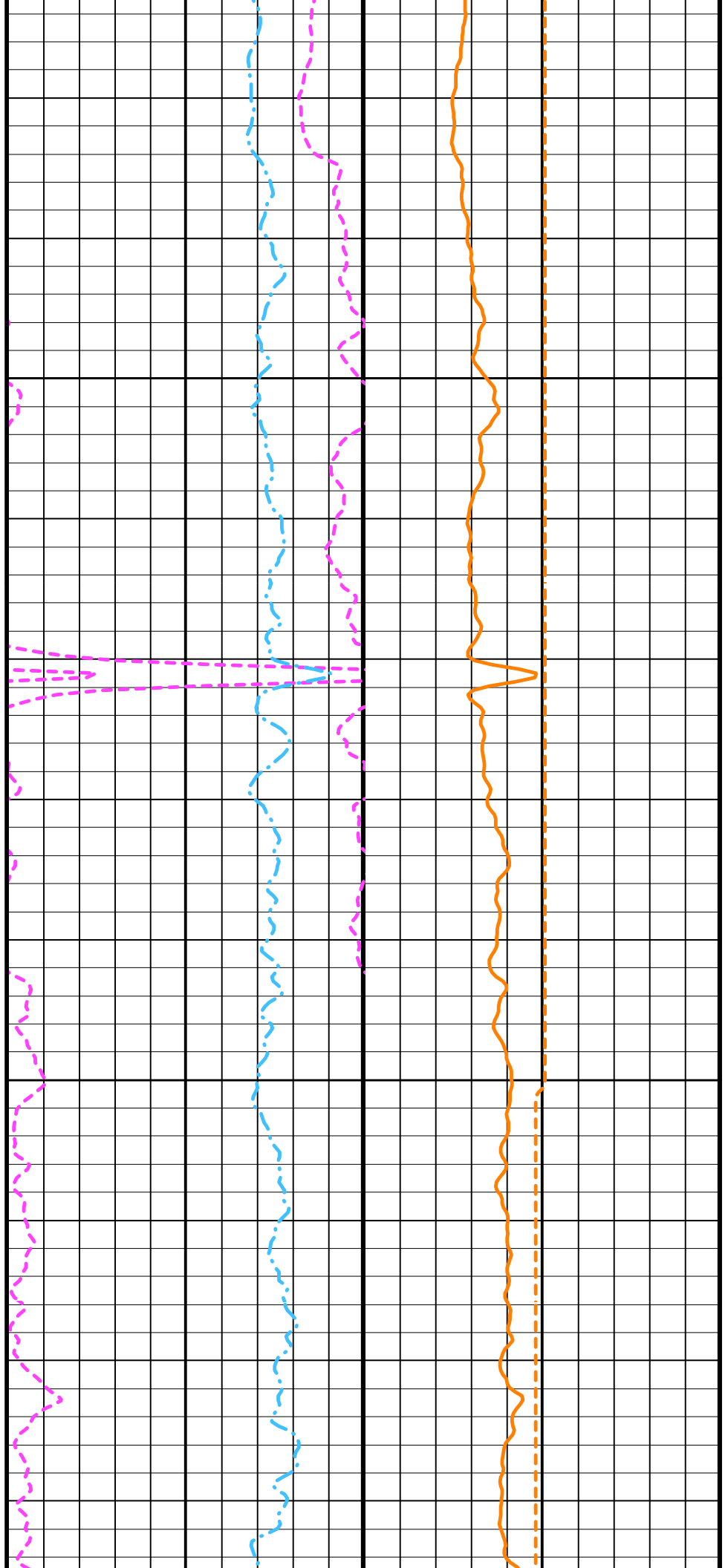
Time Mark Every 60 S

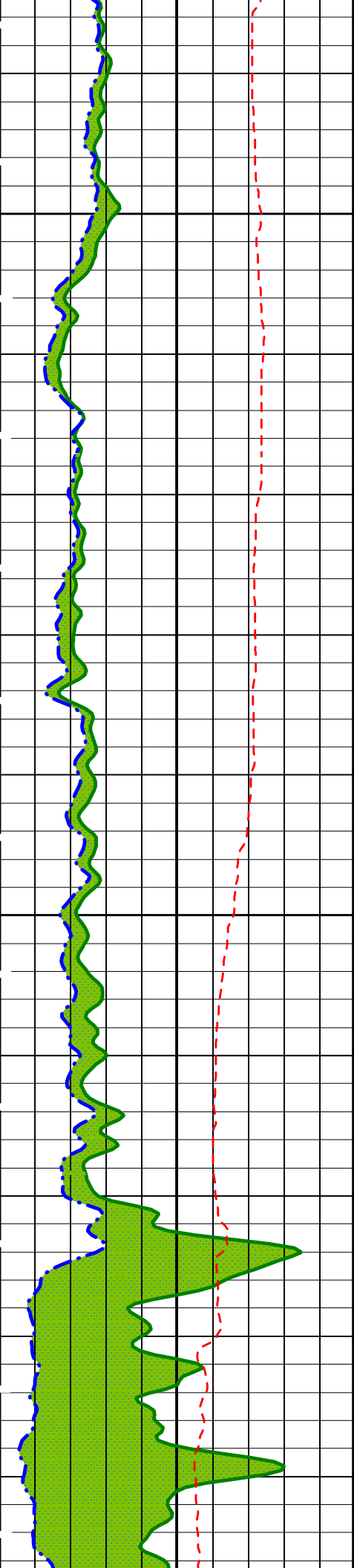




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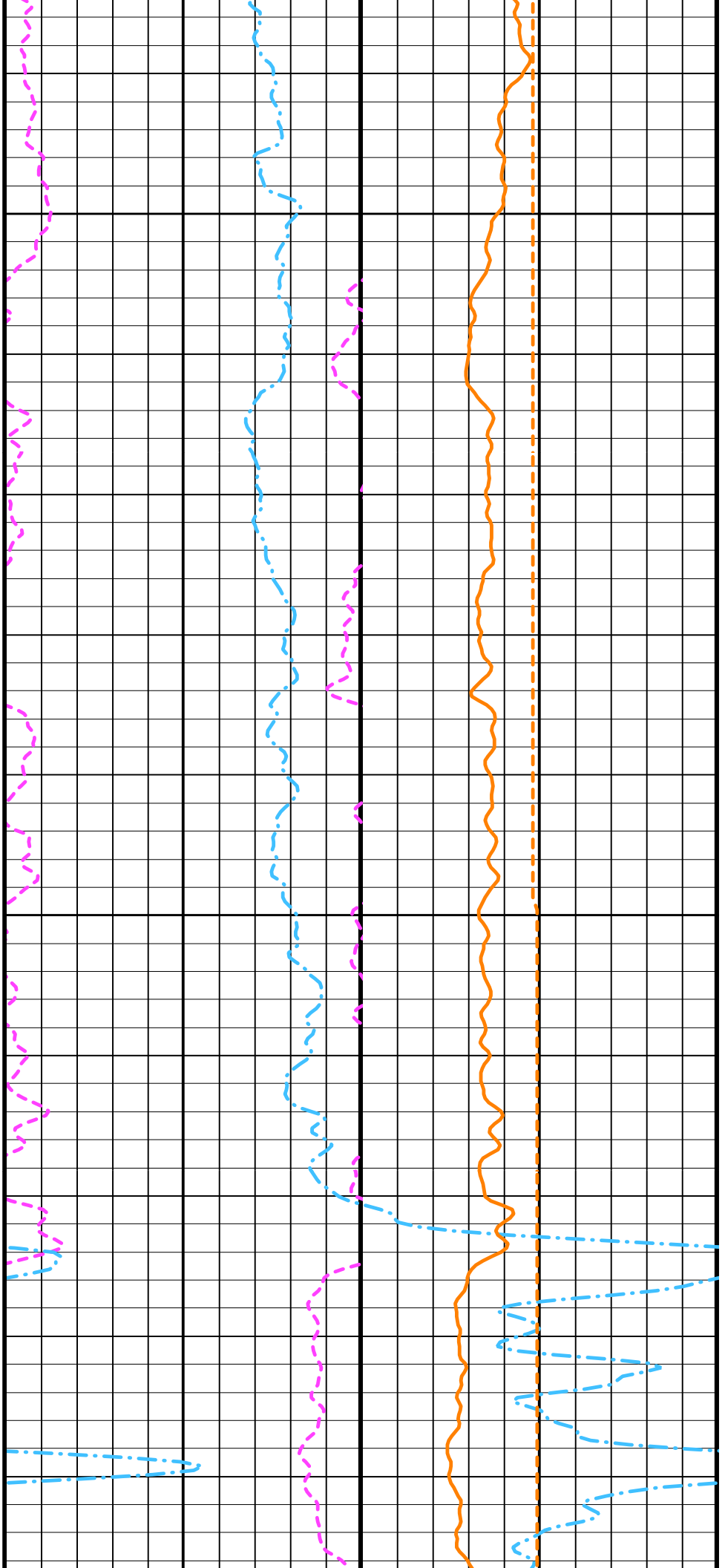
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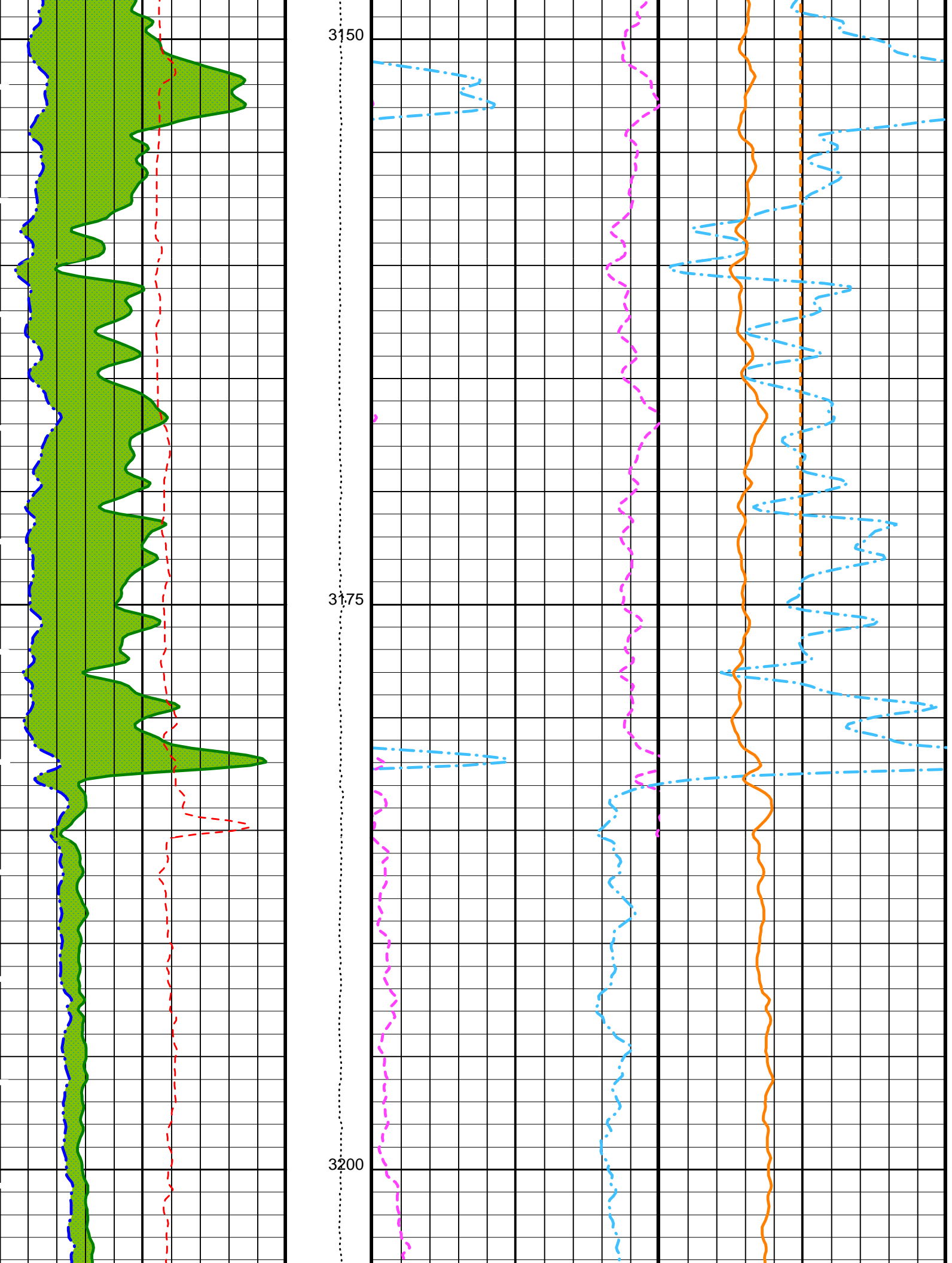


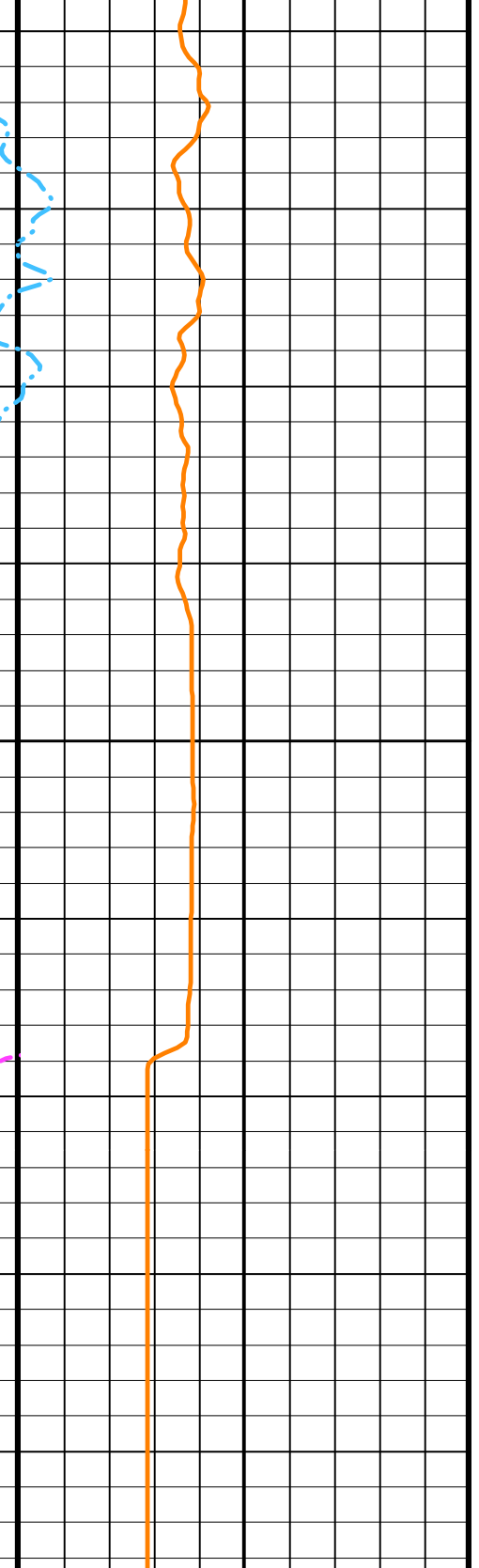
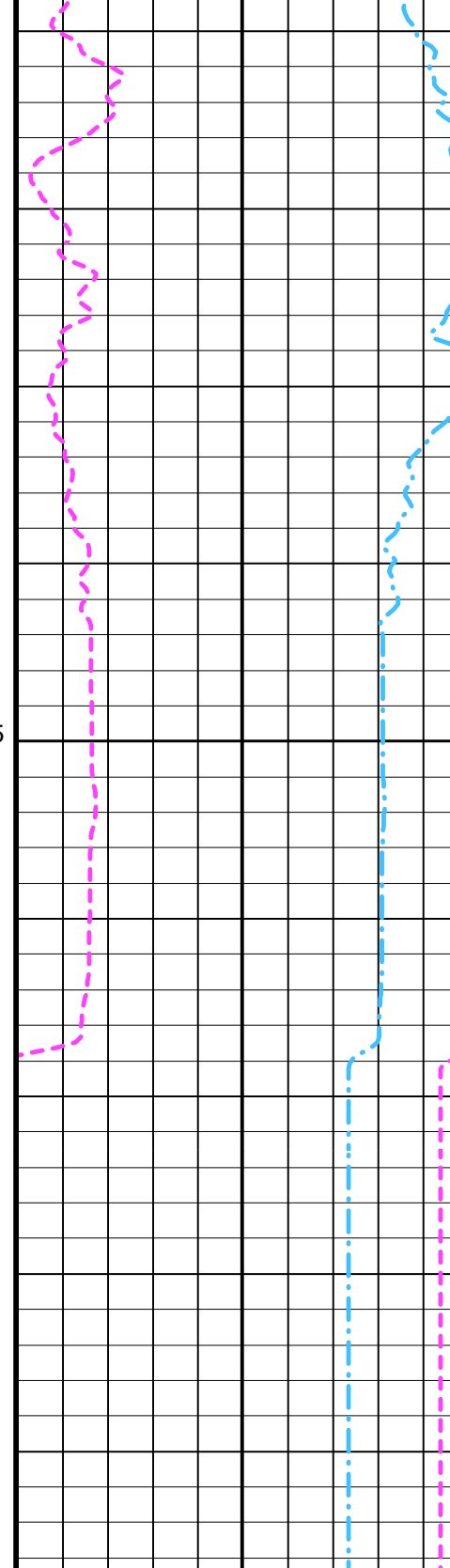
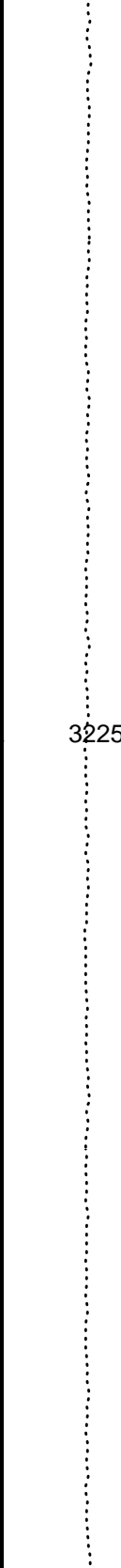
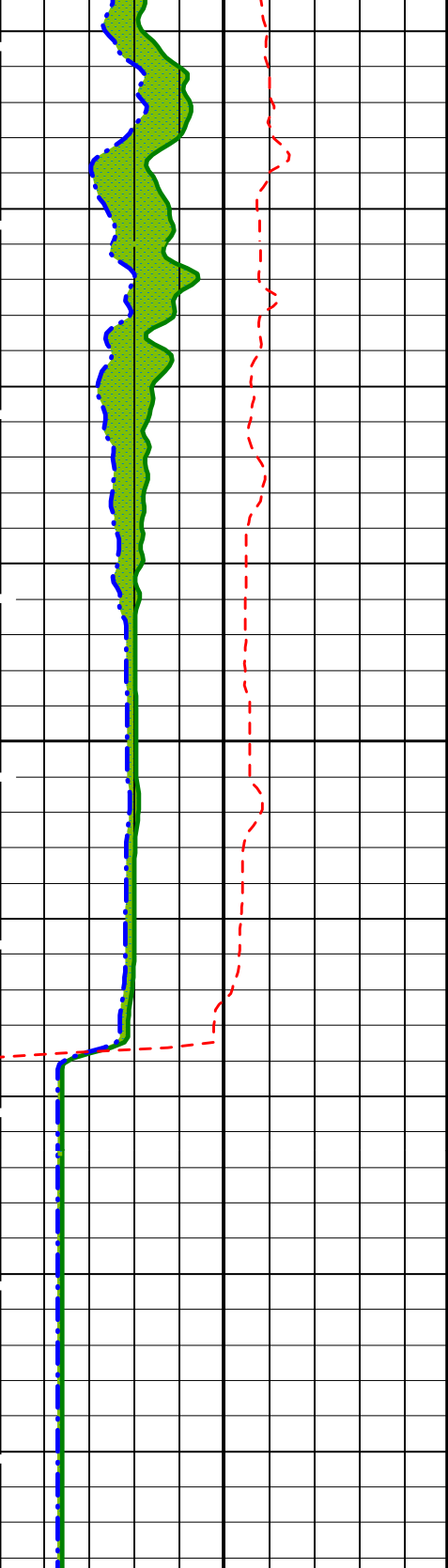


3100

3125







HLDS Caliper (LCAL) (IN) 0 20

Tension (TENS) (LBF) 10000 0

HNGS Thorium (HTHO) (PPM) 5 25

HNGS Potassium (HFK) (PPM) -0.01 0.04

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

HNGS Uranium (HURA) (PPM) -5 10

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

Area1 From HCGR to HSGR

REPEAT SECTION

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

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

### Parameters

DLIS Name	Description	Value	
DIT-E: Dual Induction - E			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	LCAL	
APS-BA: 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	-0.0178137	
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	-999.25	CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	-999.25	CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.96088	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.5297	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.10	G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 18-Jan-2003 20:21

### OP System Version: 10C0-306

MCM

DIT-E	10C0-306	DTA-A	10C0-306
HLDS	SPC-2277-NUCL_b	NPLC-B	OP10-KP1
APS-BA	SPC-2277-NUCL_b	HNGS-BA	SPC-2277-NUCL_b
DTC-H	10C0-306		

### Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_012LUP	FN:15	PRODUCER	18-Jan-2003 20:20
REDUCE	PI_LDL_APS_NGS_012LUP	FN:16	PRODUCER	18-Jan-2003 20:20

### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 13-Dec-2002 14:00 Before: 15-Jan-2003 11:10 After: 19-Jan-2003 2:14							
SS Cs Resolution Bkg	9.000	8.065	8.135	8.044	-0.09056	1.800	%
LS Cs Resolution Bkg	9.000	8.249	8.108	8.124	0.01535	1.800	%
LSW1 Background	100.0	86.88	86.46	86.16	-0.2965	0.03000	CPS
LSW2 Background	100.0	82.90	80.84	81.32	0.4762	0.03000	CPS
LSW3 Background	200.0	182.1	179.4	180.0	0.5779	0.03000	CPS
LSW4 Background	250.0	221.9	216.6	220.1	3.541	0.03000	CPS
LSW5 Background	600.0	510.1	505.1	504.0	-1.098	0.03000	CPS
SSW1 Background	100.0	96.14	98.01	96.03	-1.977	0.03000	CPS
SSW2 Background	200.0	176.7	177.3	173.7	-3.596	0.03000	CPS
SSW3 Background	500.0	478.2	477.6	477.4	-0.1395	0.03000	CPS
SSW4 Background	270.0	244.1	244.0	242.2	-1.773	0.03000	CPS
SSW5 Background	200.0	177.5	175.7	176.8	1.105	0.03000	CPS



Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement

Master: 13-Dec-2002 15:15

LSW1 Aluminum	600.0	580.8	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	822.1	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	985.4	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	489.2	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	453.3	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2597	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	7087	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9849	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	4127	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	537.2	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement

Master: 13-Dec-2002 15:11

LSW1 Iron	400.0	401.7	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	683.6	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	900.2	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	465.6	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	434.8	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1961	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	6103	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	9305	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3921	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	502.8	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration

Before: 15-Jan-2003 11:25

HLDS Caliper Small Ring	15.00	N/A	18.20	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	17.50	N/A	20.31	N/A	N/A	N/A	IN

Accelerator-Porosity Tool Wellsite Calibration - Detector Background

Master: 28-Nov-2002 19:52 Before: 18-Jan-2003 18:09 After: 19-Jan-2003 0:35

Near Det Bkg Cntrate	30.00	32.65	61.25	31.59	-29.66	N/A	CPS
Far Det Bkg Cntrate	30.00	31.56	38.09	33.02	-5.071	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	29.11	38.78	28.71	-10.07	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	29.96	40.03	29.94	-10.09	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.97	41.48	32.50	-8.981	N/A	CPS

Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios

Master: 28-Nov-2002 19:53

Near/Far Calibration Ratio	0.9250	0.8869	N/A	N/A	N/A	N/A
Near/Array Calibration Ratio	1.030	1.051	N/A	N/A	N/A	N/A
Near/Array Cal Ratio Up/Down	1.000	1.002	N/A	N/A	N/A	N/A

Accelerator-Porosity Tool Wellsite Calibration - Tank Check

Master: 28-Nov-2002 19:54

Array-1 Standoff Porosity	11.75	11.90	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.44	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.850	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9966	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	0.9889	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.81	N/A	N/A	N/A	N/A	CU

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: 15-Jan-2003 16:08 Before: 15-Jan-2003 16:17 After: 19-Jan-2003 2:15

Na 511 Peak Loc	40.00	40.59	40.72	40.70	-0.02711	1.000	
Na 511 Peak Res	15.50	17.05	17.42	16.61	-0.8152	2.000	%
High Voltage	1150	1212	1212	1215	2.189	30.00	V
Na 1785 Peak Loc	142.6	145.6	145.3	145.8	0.5008	7.000	
Na 1785 Peak Res	8.500	9.037	9.666	9.711	0.04524	2.000	%
Temperature	15.50	32.69	32.84	29.54	-3.307	N/A	DEGC
Na Count Rate	45.00	44.80	43.98	43.51	-0.4779	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 15-Jan-2003 16:08 Before: 15-Jan-2003 16:17 After: 19-Jan-2003 2:15

Na 511 Peak Loc	40.00	40.55	40.57	40.61	0.03738	1.000	
Na 511 Peak Res	15.50	16.60	16.91	17.25	0.3423	2.000	%
High Voltage	1150	1239	1239	1242	2.449	30.00	V
Na 1785 Peak Loc	142.6	144.7	144.4	144.4	0.07025	7.000	
Na 1785 Peak Res	8.500	9.925	9.708	9.893	0.1852	2.000	%
Temperature	15.50	32.80	32.89	29.63	-3.265	N/A	DEGC
Na Count Rate	45.00	44.45	43.98	43.50	-0.4887	8.000	CPS

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

Master: 15-Jan-2003 16:08 Before: 15-Jan-2003 16:17 After: 19-Jan-2003 2:15

Coincidence Count Rate Ratio	1.000	1.008	1.0000	1.001	0.001407	0.05000
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Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration

Master: 15-Jan-2003 16:01

Na 511 Peak Set Point	40.00	41.00	--	--	--	--
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Th Peak Loc	209.6	209.3	--	--	--	--	
Th Peak Res	7.000	8.207	--	--	--	--	%
Background Count Rate	142.5	23.15	--	--	--	--	CPS
Gain Ratio	1.000	0.9810	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration

Master: 15-Jan-2003 16:01

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.3	--	--	--	--	
Th Peak Res	7.000	7.848	--	--	--	--	%
Background Count Rate	142.5	21.80	--	--	--	--	CPS
Gain Ratio	1.000	0.9821	--	--	--	--	

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting	1728 V
Far Detector Plateau Setting	2073 V
Array Detector Plateau Setting	1958 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	

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS - D	45
Hostile Litho Density High Voltage	HLDV - D	35
Gamma Source Radioactive	GSR - Z	1846
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP - C	45
Hostile Litho Density High Voltage Housi	HEH - H	35

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



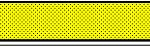

Primary Equipment:		
HNGS Sonde	HNGS - BA	77
Auxiliary Equipment:		

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		40.59	Master		17.05	Master		1212	
Before		40.72	Before		17.42	Before		1212	
After		40.70	After		16.61	After		1215	
	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		145.6	Master		9.037	Master		32.69	
Before		145.3	Before		9.666	Before		32.84	
After		145.8	After		9.711	After		29.54	
	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		44.80							
Before		43.98							
After		43.51							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 15-Jan-2003 16:08			Before: 15-Jan-2003 16:17			After: 19-Jan-2003 2:15			

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		40.55	Master		16.60	Master		1239	
Before		40.57	Before		16.91	Before		1239	
After		40.61	After		17.25	After		1242	
	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		144.7	Master		9.925	Master		32.80	
Before		144.4	Before		9.708	Before		32.89	
After		144.4	After		9.893	After		29.63	
	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		44.45							
Before		43.98							
After		43.50							
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)						
Master: 15-Jan-2003 16:08			Before: 15-Jan-2003 16:17			After: 19-Jan-2003 2:15			

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		1.008	
Before		1.0000	
After		1.001	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 15-Jan-2003 16:08			
Before: 15-Jan-2003 16:17			
After: 19-Jan-2003 2:15			

Hostile Natural Gamma Ray Sonde Master Calibration									
Detector 1 Calibration									
Phase	Na 511 Peak Set Point			Value	Phase	Th Peak Loc			Value
Master				41.00	Master				209.3
	38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)			201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	
Phase	Background Count Rate CPS			Value	Phase	Gain Ratio			Value
Master				23.15	Master				0.9810
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)			0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)	
Master: 15-Jan-2003 16:01									

Hostile Natural Gamma Ray Sonde Master Calibration									
Detector 2 Calibration									
Phase	Na 511 Peak Set Point			Value	Phase	Th Peak Loc			Value
Master				41.00	Master				209.3
	38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)			201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	
Phase	Background Count Rate CPS			Value	Phase	Gain Ratio			Value
Master				21.80	Master				0.9821
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)			0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)	
Master: 15-Jan-2003 16:01									

Company: Lamont Doherty

**Schlumberger**

Well: ODP Leg 207 Site 1257A

Field: Demarara Rise

Country: Venezuela

Ocean: Atlantic

Natural Gamma Ray  
(HNRS)