

Company: Lamont Doherty

Well: ODP Leg 207 Site 1258C

Field: Demarara Rise

Country: Venezuela

Ocean: Atlantic

Country: Venezuela
Field: Demarara Rise
Location: 9.433 Deg North, 54.7327 Deg V
Well: ODP Leg 207 Site 1258C
Company: Lamont Doherty

<p>Natural Gamma Ray HNGS</p>		<p>9.433 Deg North, 54.7327 Deg West</p>	<p>Elev.: K.B. 11.3 m G.L. -3203 m D.F. 11 m</p>
LOCATION			
Permanent Datum:	MSL	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

Logging Date	31-Jan-2003
Run Number	1
Depth Driller	3688 m
Schlumberger Depth	3683 m
Bottom Log Interval	3654 m
Top Log Interval	3194 m
Casing Driller Size @ Depth	0.000 in @ 3283 m
Casing Schlumberger	3281 m
Bit Size	9.875 in
Type Fluid In Hole	Sepolite Salt Water
Density	1.1 g/cm3
Fluid Loss	PH
Source Of Sample	Mudpit
RM @ Measured Temperature	0.258 ohm.m @ 32 degC
RMF @ Measured Temperature	@ @
RMC @ Measured Temperature	@ @
Source RMF	RMC
RM @ MRT	0.383 @ 15 @ 15
Maximum Recorded Temperatures	15 degC
Circulation Stopped	Time
Logger On Bottom	31-Jan-2003 07:13
Unit Number	99 Houston, TX ODP
Recorded By	K. Swain
Witnessed By	B. Rea, F. Heidersdorf

Logging Date	Run 1	Run 2	Run
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss	PH		
Source Of Sample			
RM @ Measured Temperature	@		
RMF @ Measured Temperature	@ @		
RMC @ Measured Temperature	@ @		
Source RMF	RMC		
RM @ MRT	0.383 @ 15 @ 15		
Maximum Recorded Temperatures	15 degC		
Circulation Stopped	Time		
Logger On Bottom	31-Jan-2003 07:13		
Unit Number	99 Houston, TX ODP		
Recorded By	K. Swain		
Witnessed By	B. Rea, F. Heidersdorf		

Logging Date	Run 1	Run 2	Run
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
Fluid Loss	PH		
Source Of Sample			
RM @ Measured Temperature	@		
RMF @ Measured Temperature	@ @		
RMC @ Measured Temperature	@ @		
Source RMF	RMC		
RM @ MRT	0.383 @ 15 @ 15		
Maximum Recorded Temperatures	15 degC		
Circulation Stopped	Time		
Logger On Bottom	31-Jan-2003 07:13		
Unit Number	99 Houston, TX ODP		
Recorded By	K. Swain		
Witnessed By	B. Rea, F. Heidersdorf		

DISCLAIMER

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OTHER SERVICES1
 OS1: FMS/LSS
 OS2: HLDS/APS/DITE
 OS3: WST
 OS4:
 OS5:

OTHER SERVICES2
 OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1
 Hole cored with RCB, 9 7/8 bit.
 Driller Sea Floor at:3203 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= 3688 mbrf.
 Schlumberger TD= 3683 mbrf.
 Drill pipe Schlumberger= 3281 mbrf.

REMARKS: RUN NUMBER 2

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

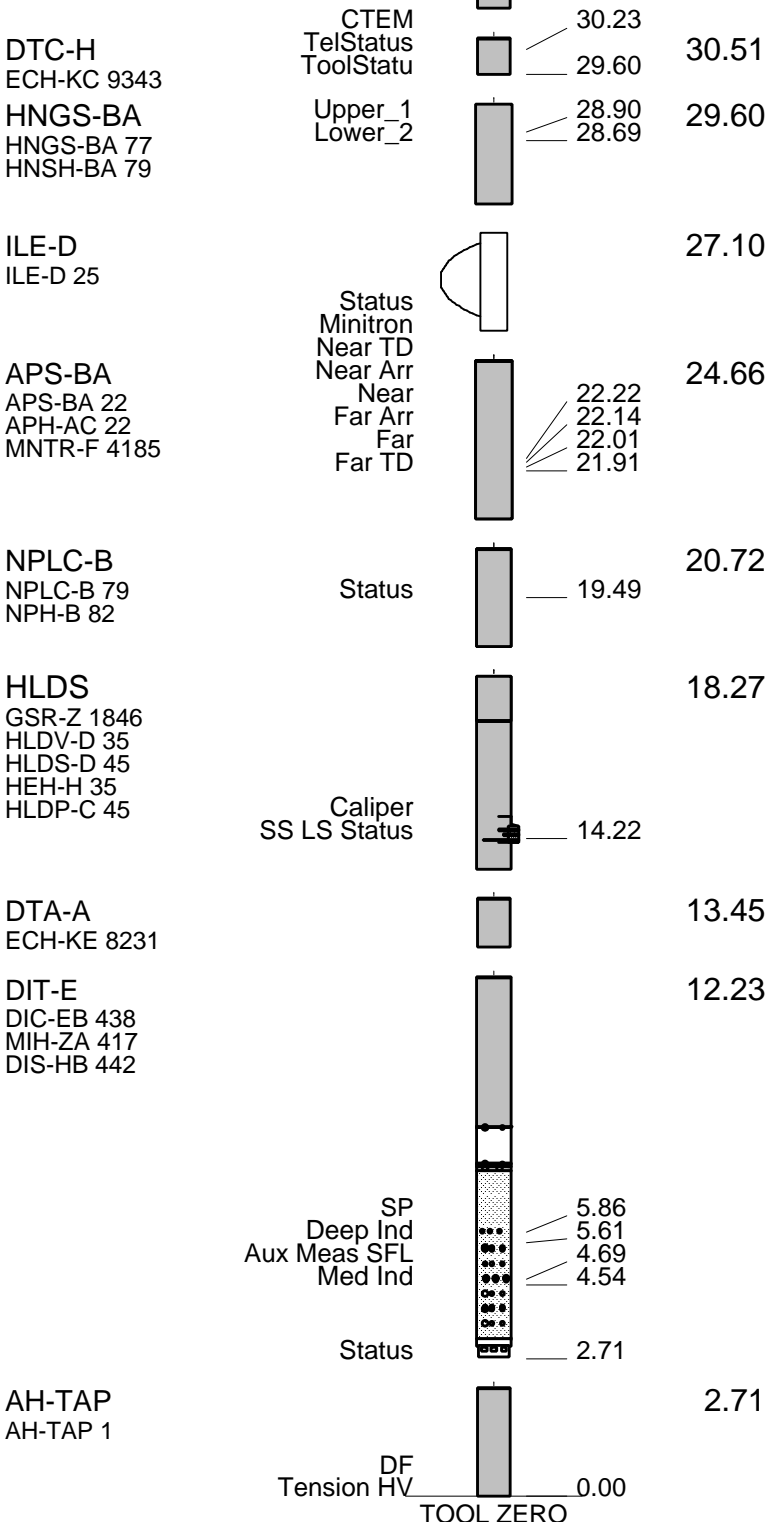
EQUIPMENT DESCRIPTION

RUN 1
SURFACE EQUIPMENT
 SFT-281 24
 SFT-178 4722
 GSR-U 135
 WITM (DTS)-A

RUN 2

DOWNHOLE EQUIPMENT

LEH-QT		37.04
LEH-QT 1497		
AH-MGT		36.15
AH-MGT		



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

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_005LUP	FN:6	PRODUCER	31-Jan-2003 07:13	3685.0 M	3166.1 M
REDUCE	PI_LDL_APS_NGS_005LUP	FN:7	PRODUCER	31-Jan-2003 07:13	3685.0 M	3164.4 M

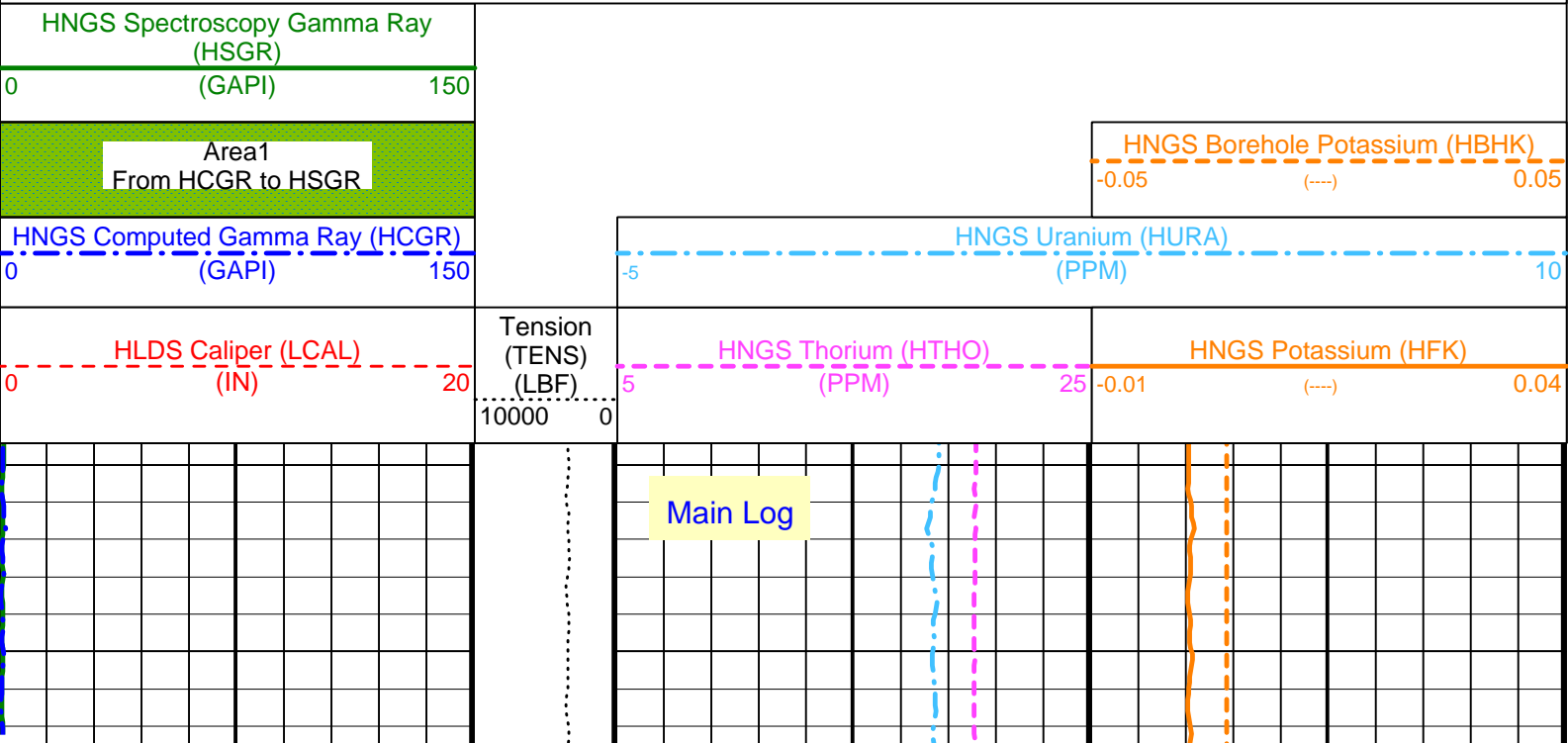
OP System Version: 10C0-306

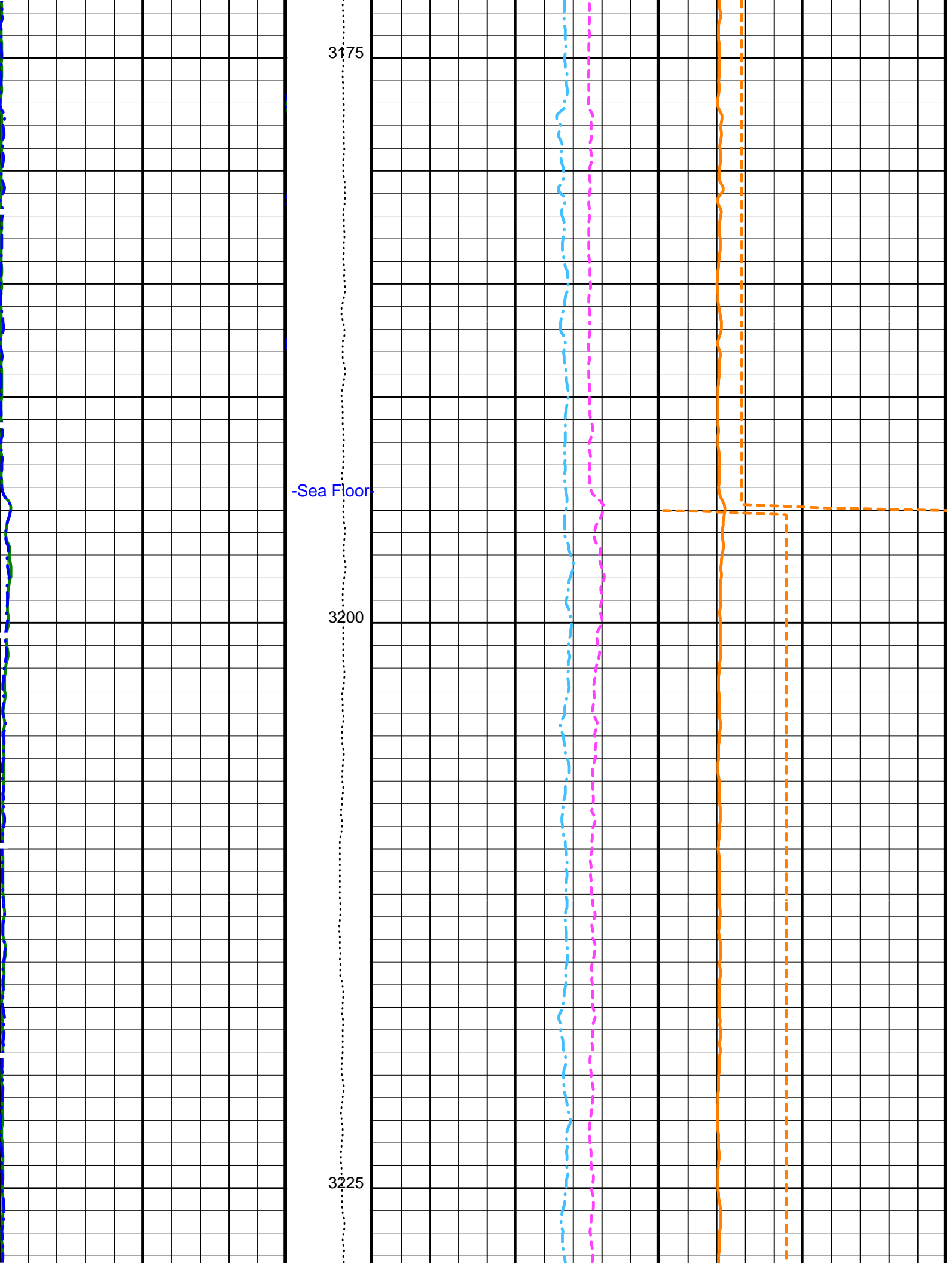
MCM

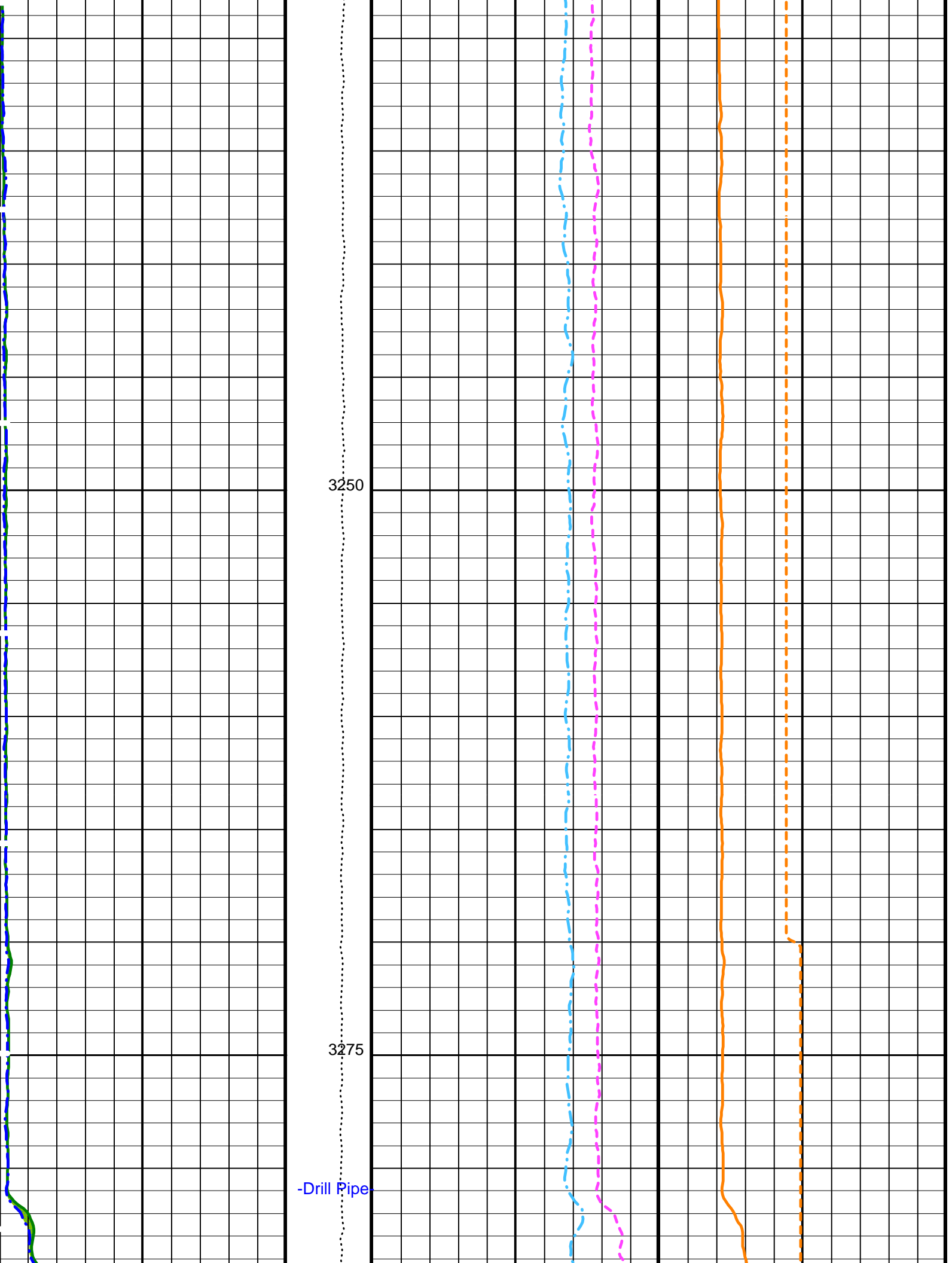
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HLDS	SPC-2277-NUCL_b	NPLC-B	OP10-KP1
APS-BA	SPC-2277-NUCL_b	HNGS-BA	SPC-2277-NUCL_b
DTC-H	10C0-306		

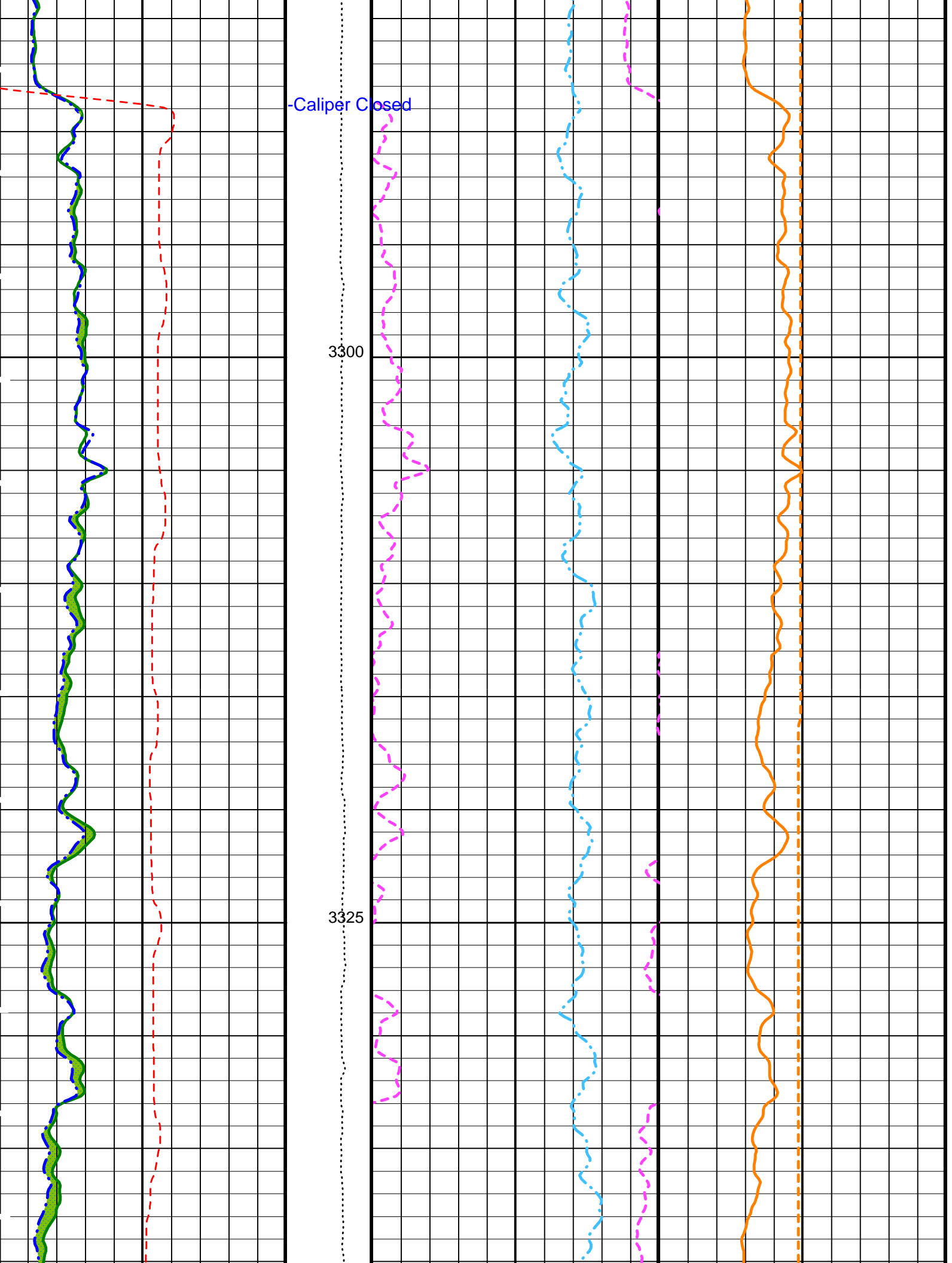
PIP SUMMARY

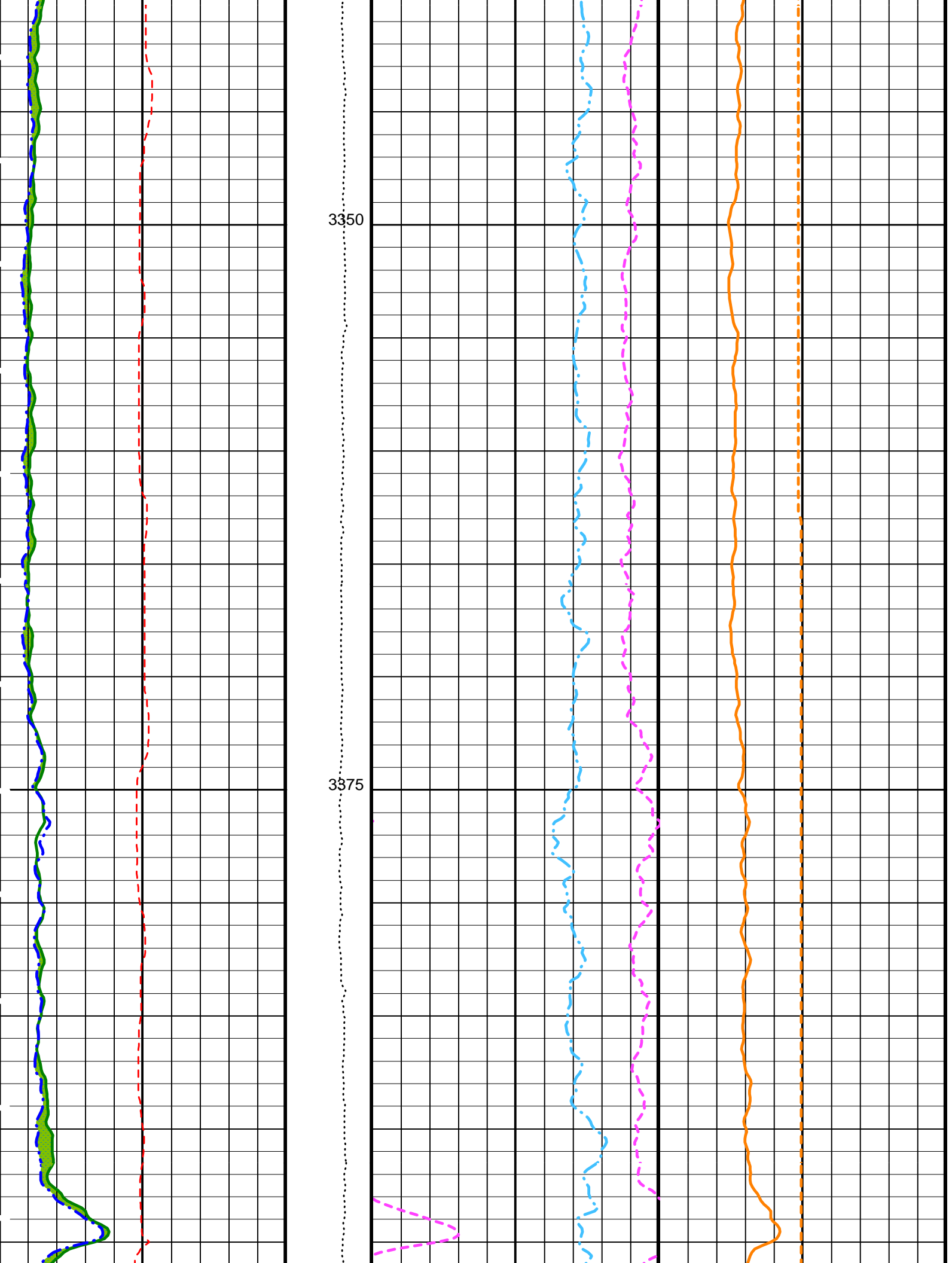
Time Mark Every 60 S

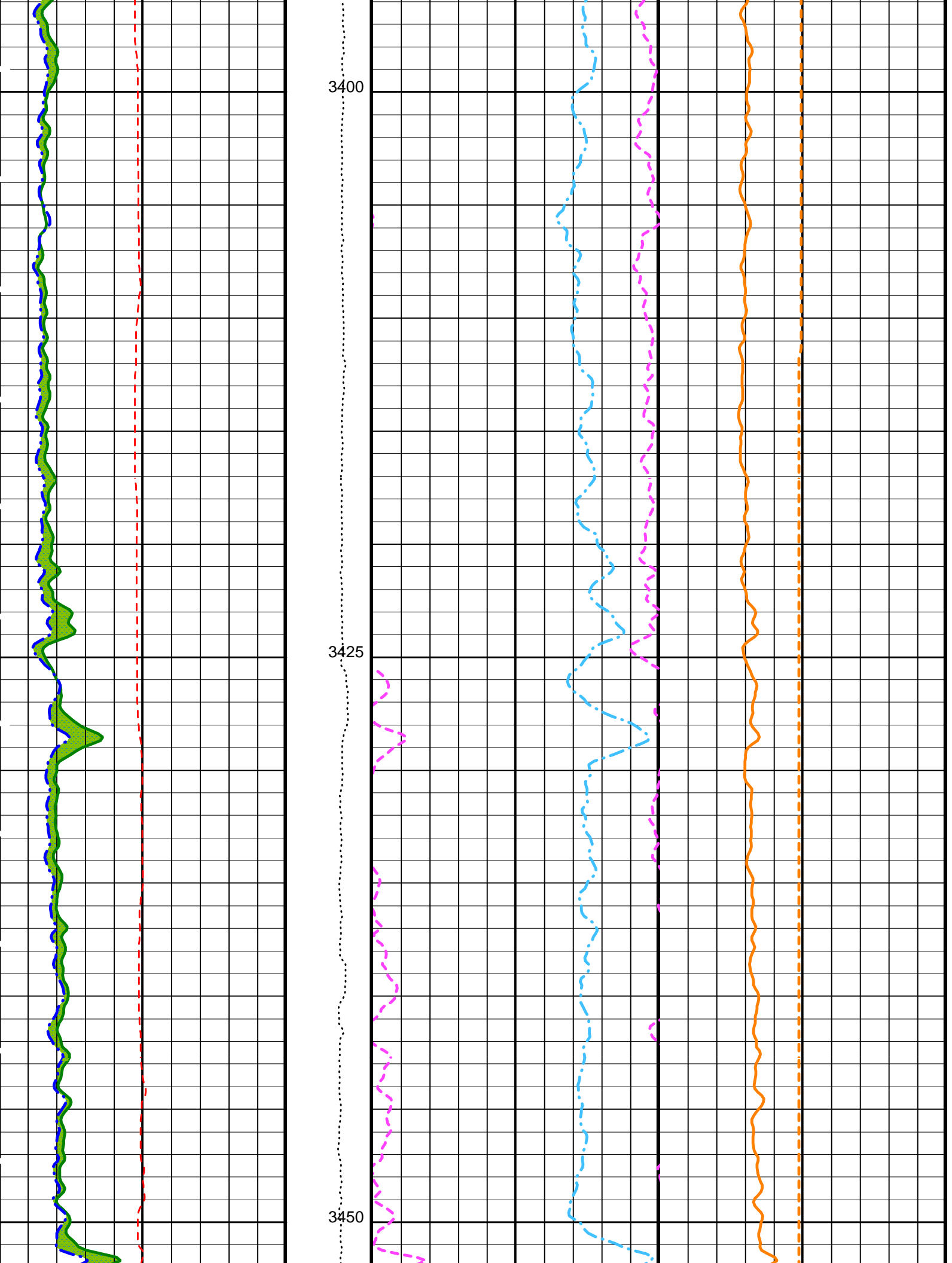


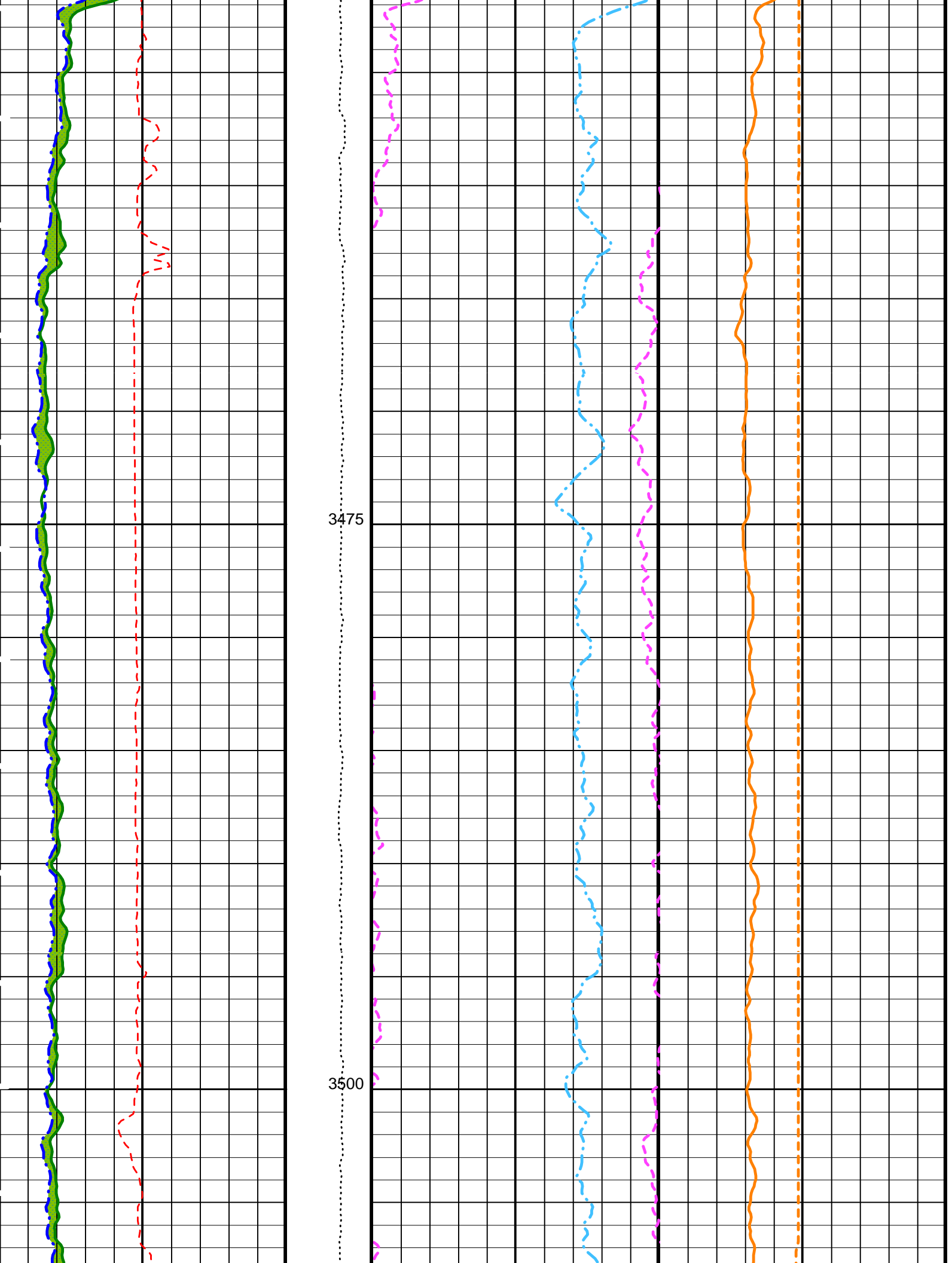


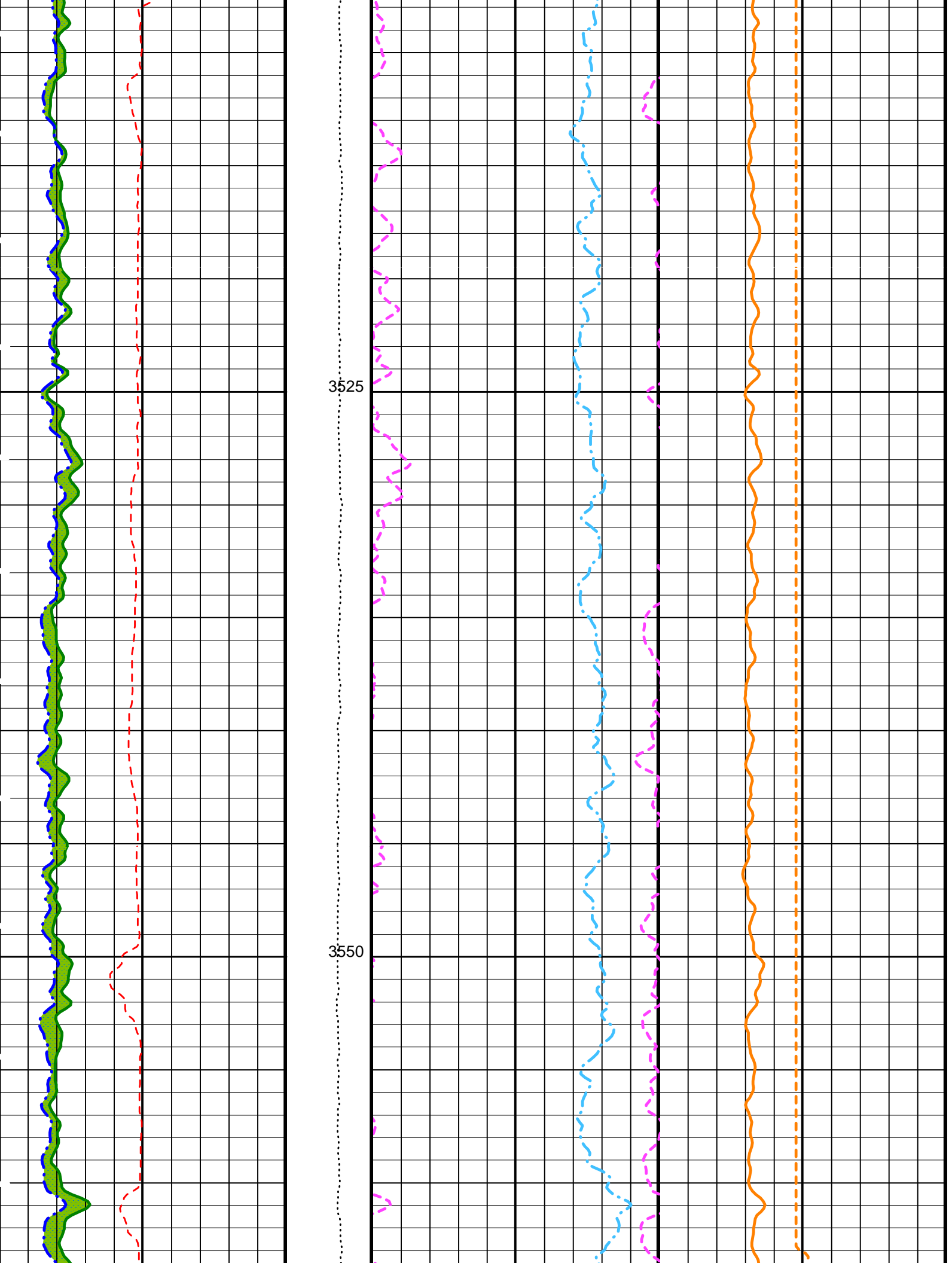


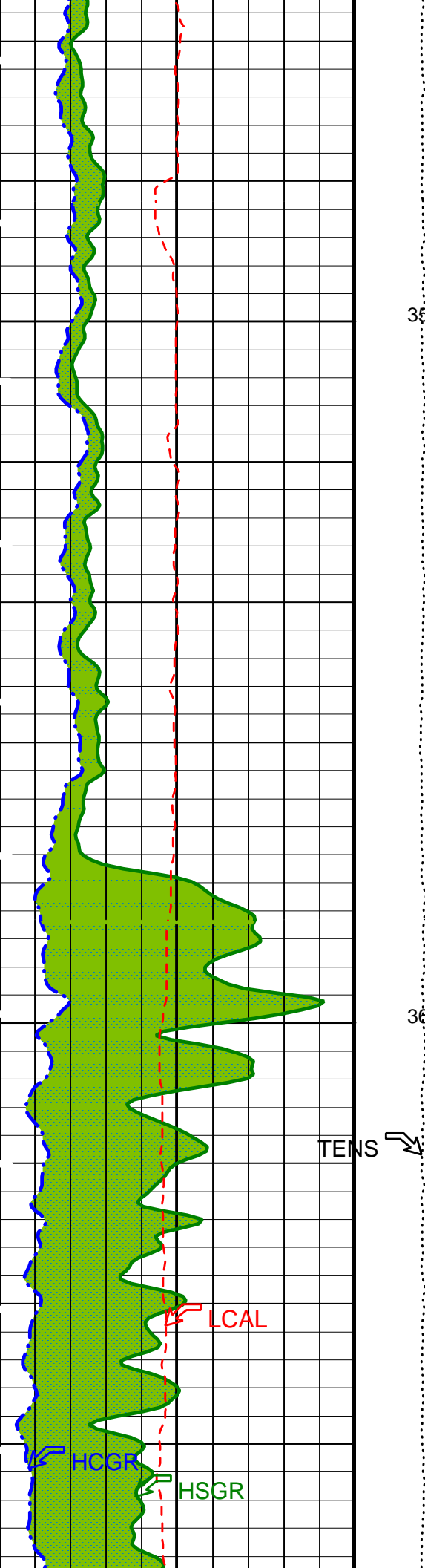












3575

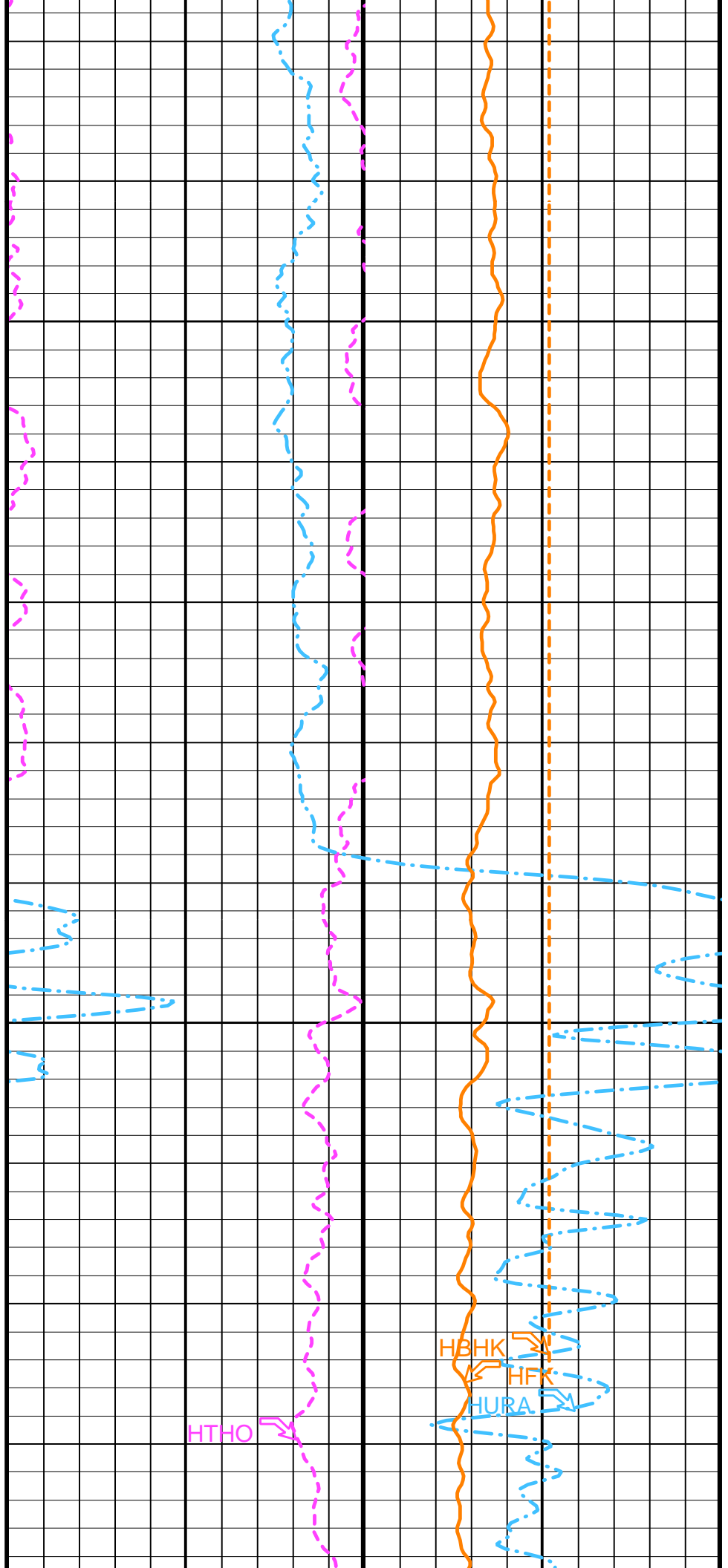
3600

TENS ↘

LCAL ↘

HSGR ↘

HCGR ↘

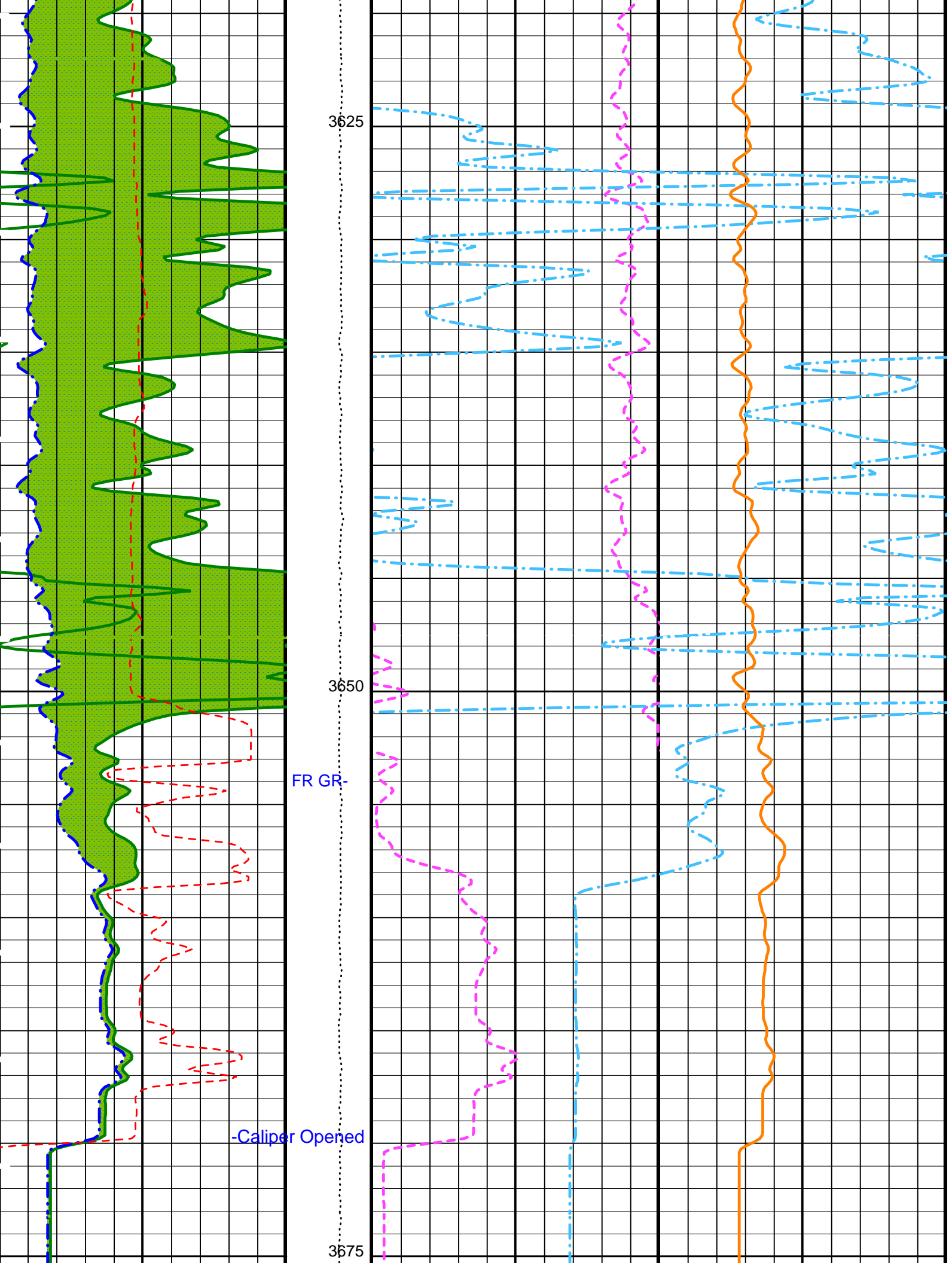


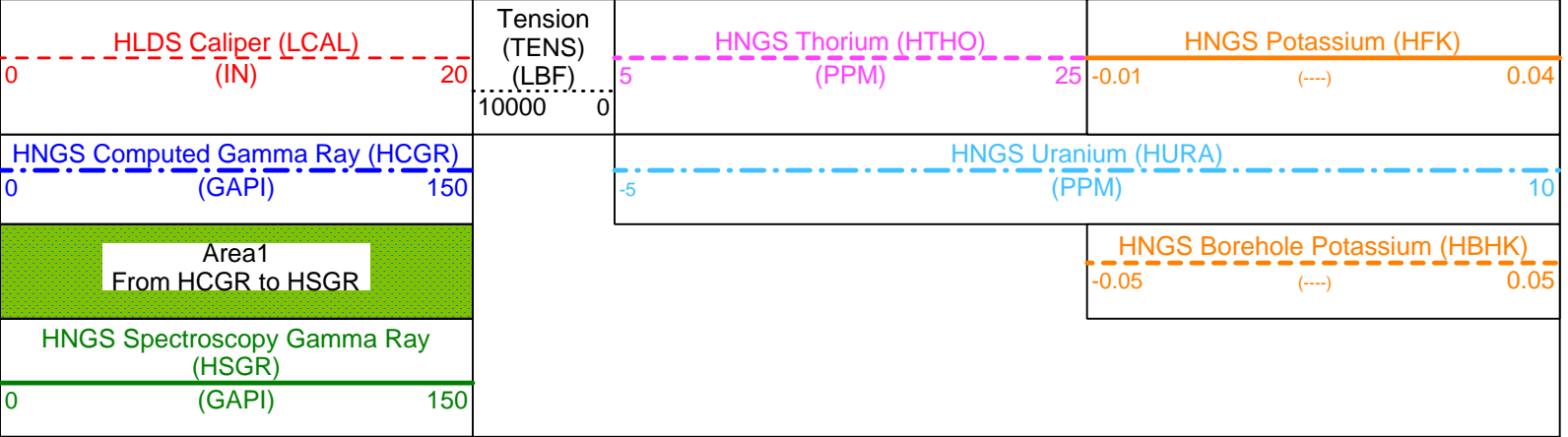
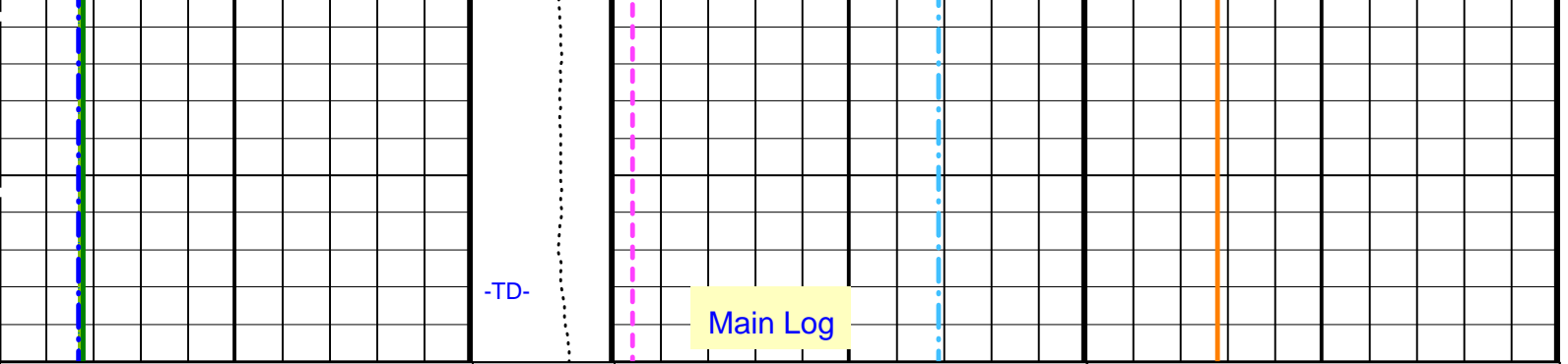
HTHO ↘

HBHK ↘

HFK ↘

HURA ↘





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	-0.0398722
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	0.960314
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.969236
	System and Miscellaneous	
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.10 G/C3

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 31-Jan-2003 07:13

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_005LUP	FN:6	PRODUCER	31-Jan-2003 07:13
REDUCE	PI_LDL_APS_NGS_005LUP	FN:7	PRODUCER	31-Jan-2003 07:13

Output DLIS Files

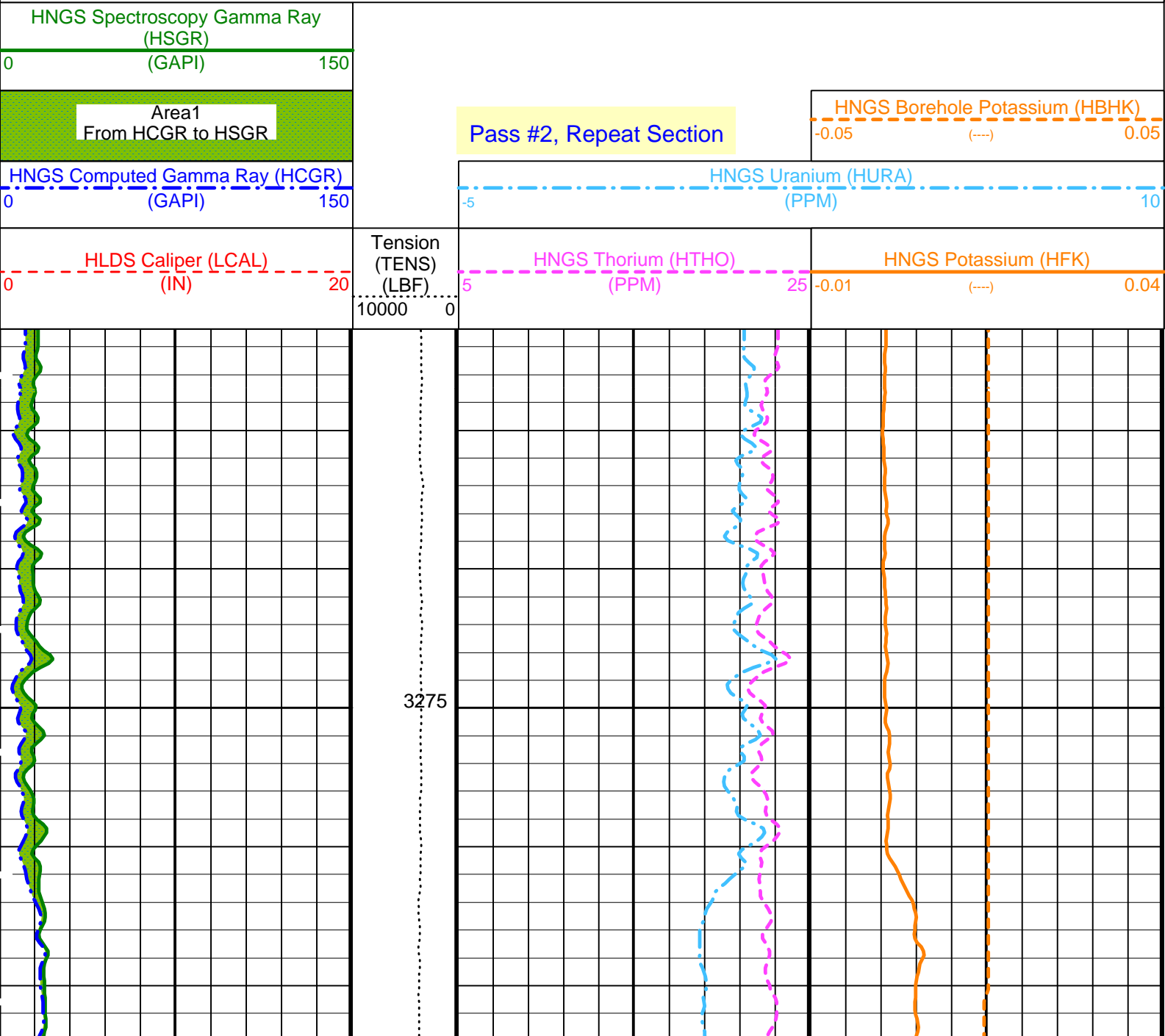
DEFAULT	PI_LDL_APS_NGS_006LUP	FN:8	PRODUCER	31-Jan-2003 09:09	3685.0 M	3261.4 M
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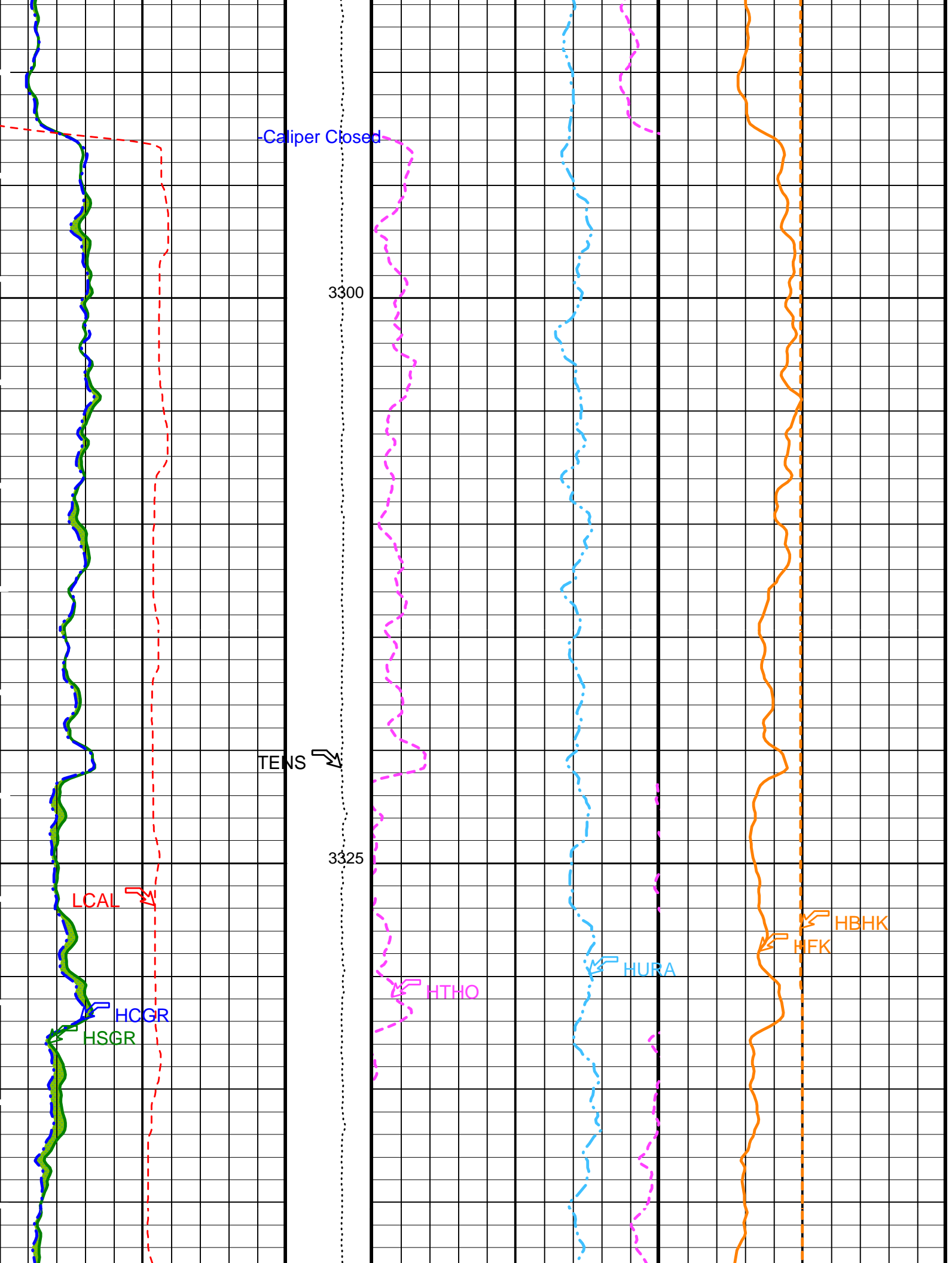
OP System Version: 10C0-306 MCM

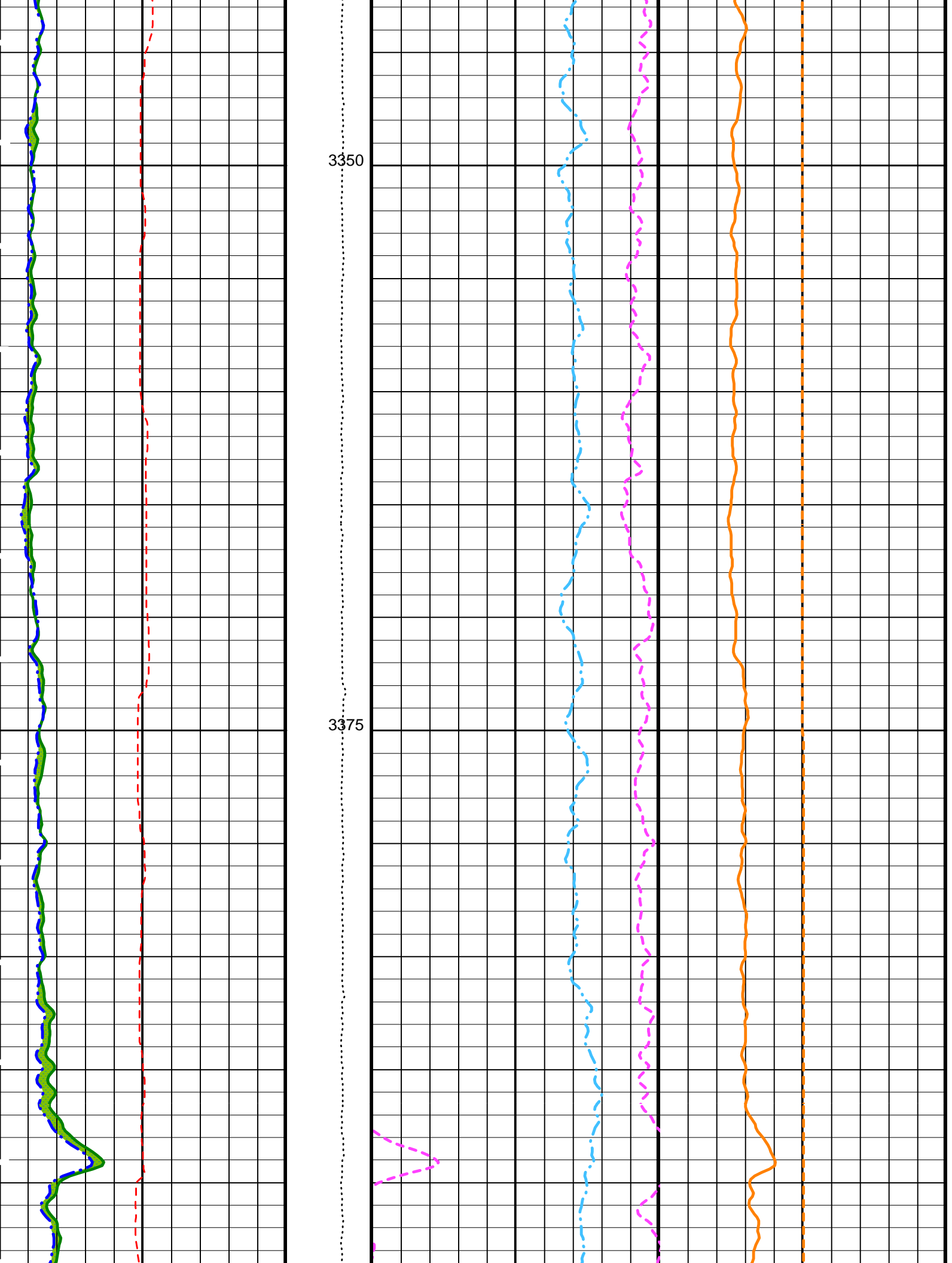
DIT-E	10C0-306	DTA-A	10C0-306
HLDS	SPC-2277-NUCL_b	NPLC-B	OP10-KP1
APS-BA	SPC-2277-NUCL_b	HNGS-BA	SPC-2277-NUCL_b
DTC-H	10C0-306		

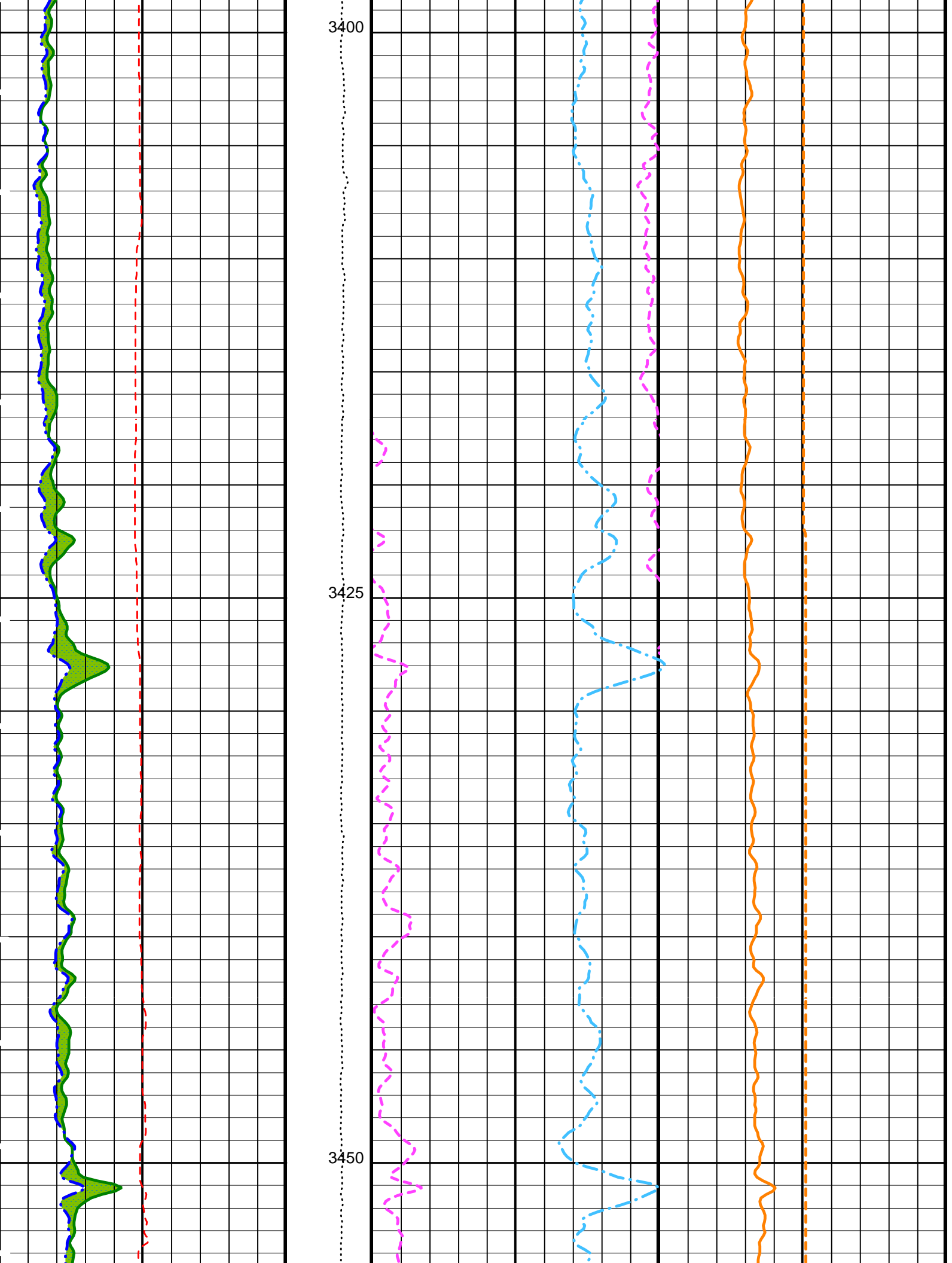
PIP SUMMARY

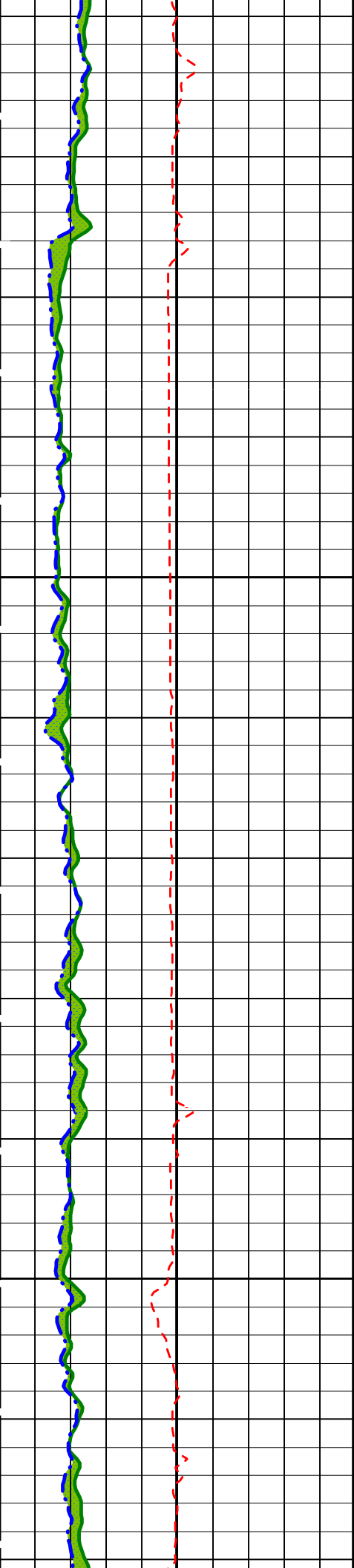
Time Mark Every 60 S





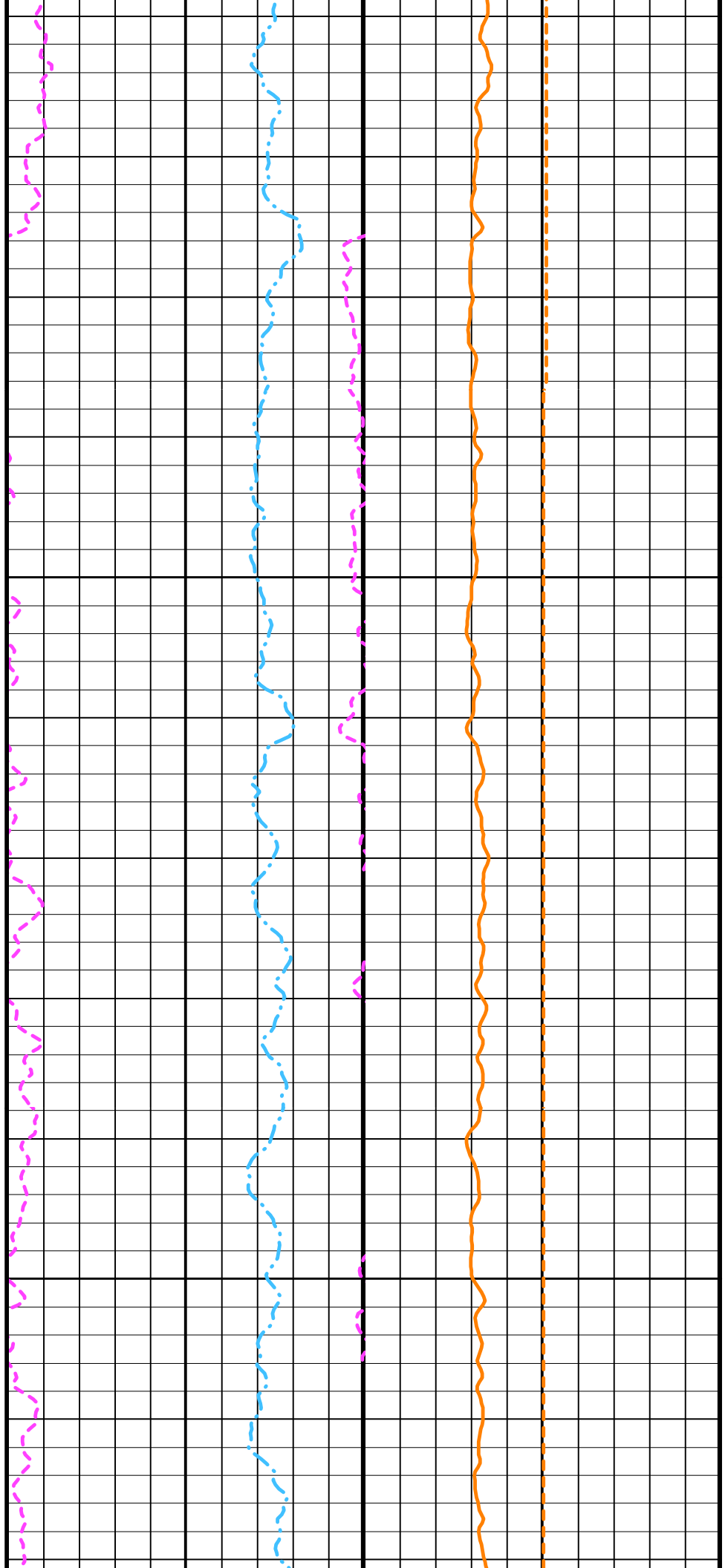


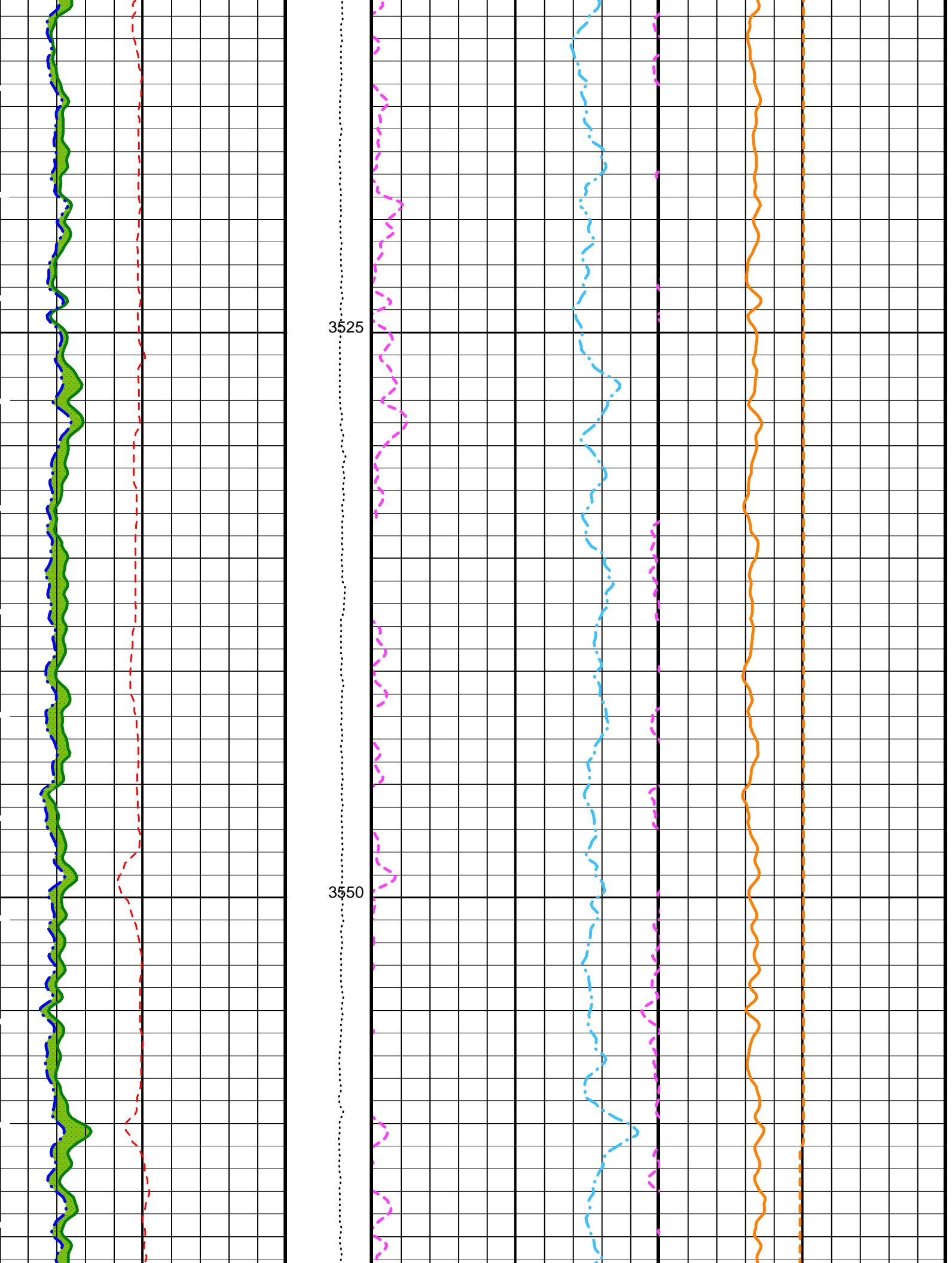


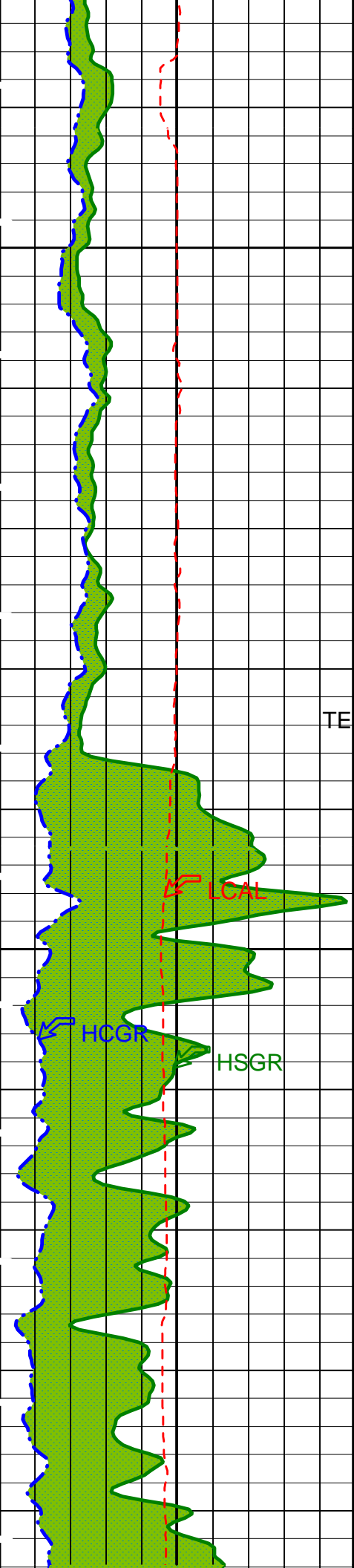


3475

3500



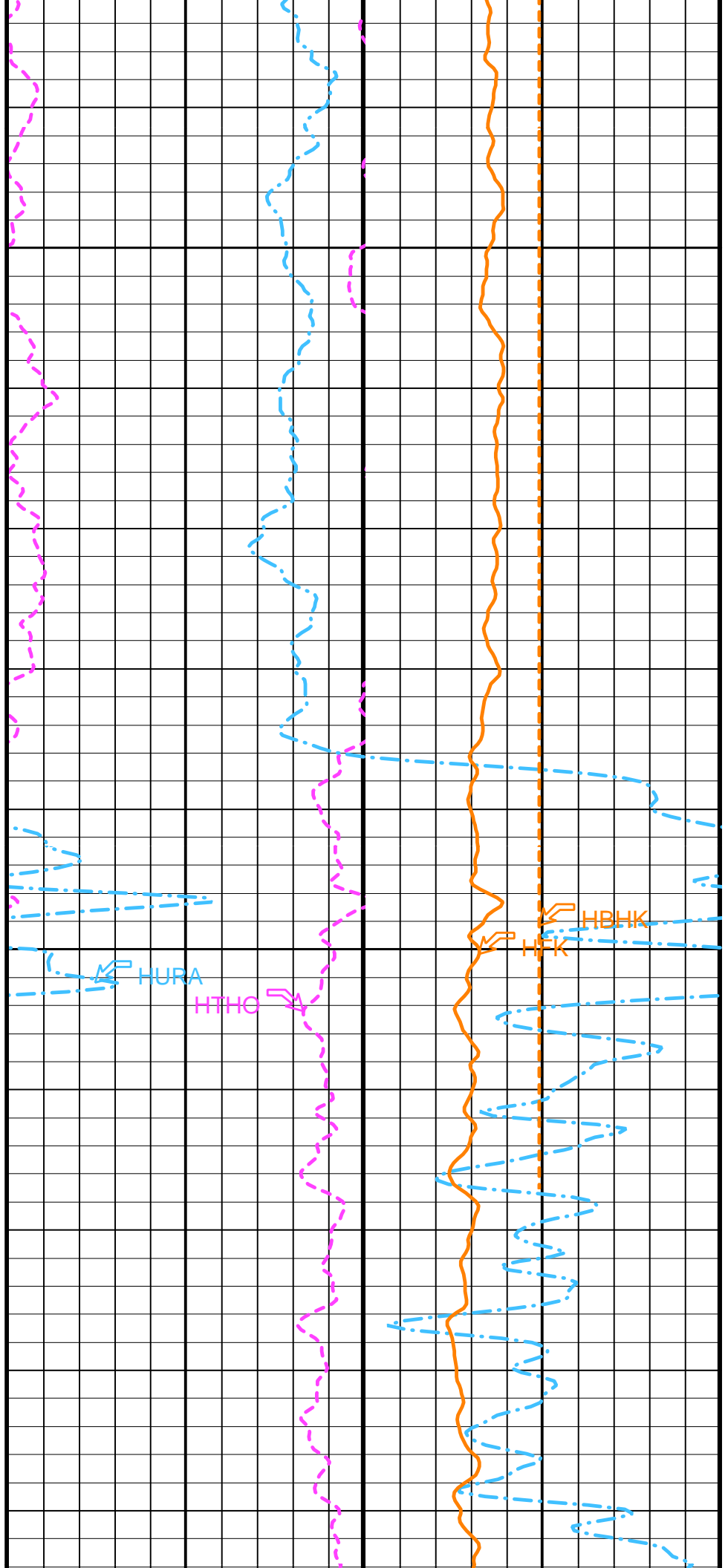


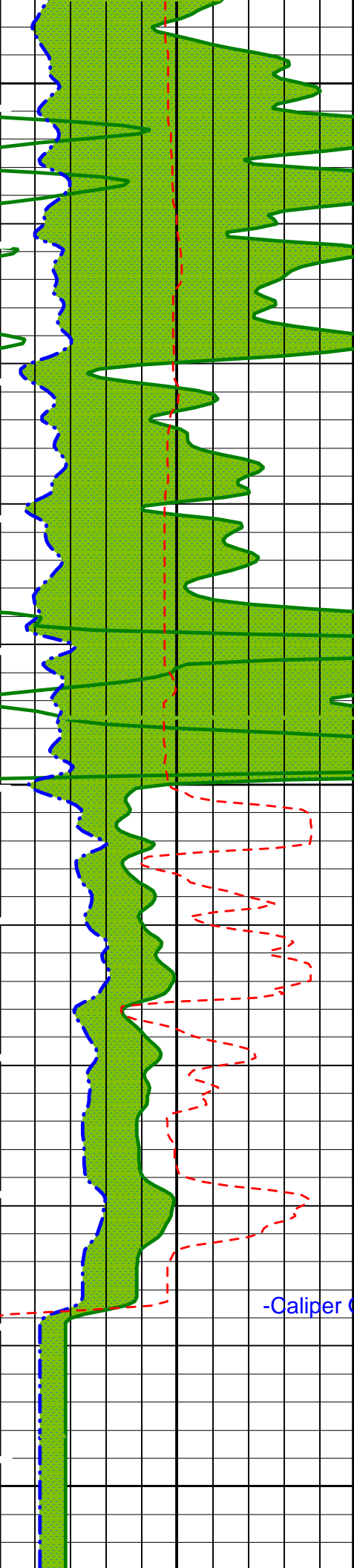


TENS ↗

3575

3600



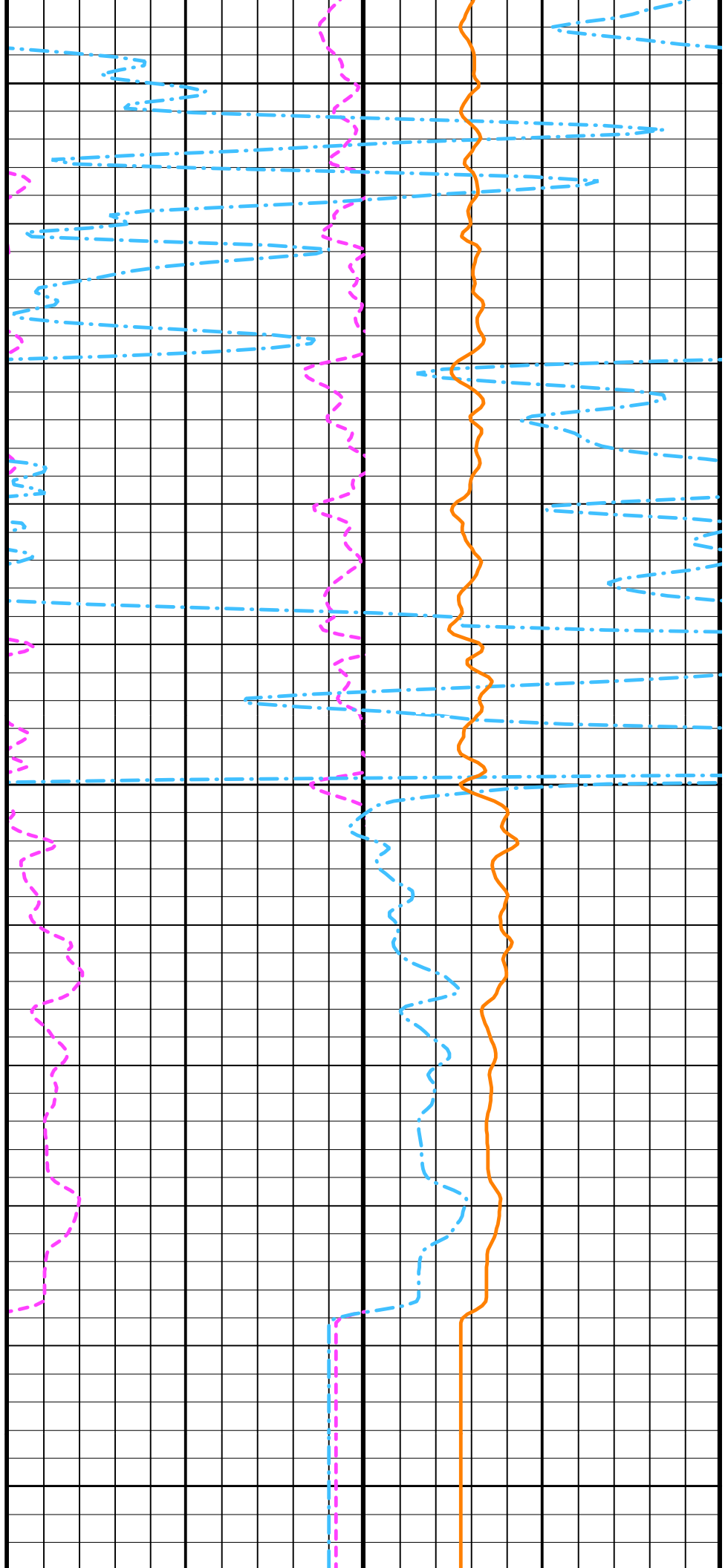


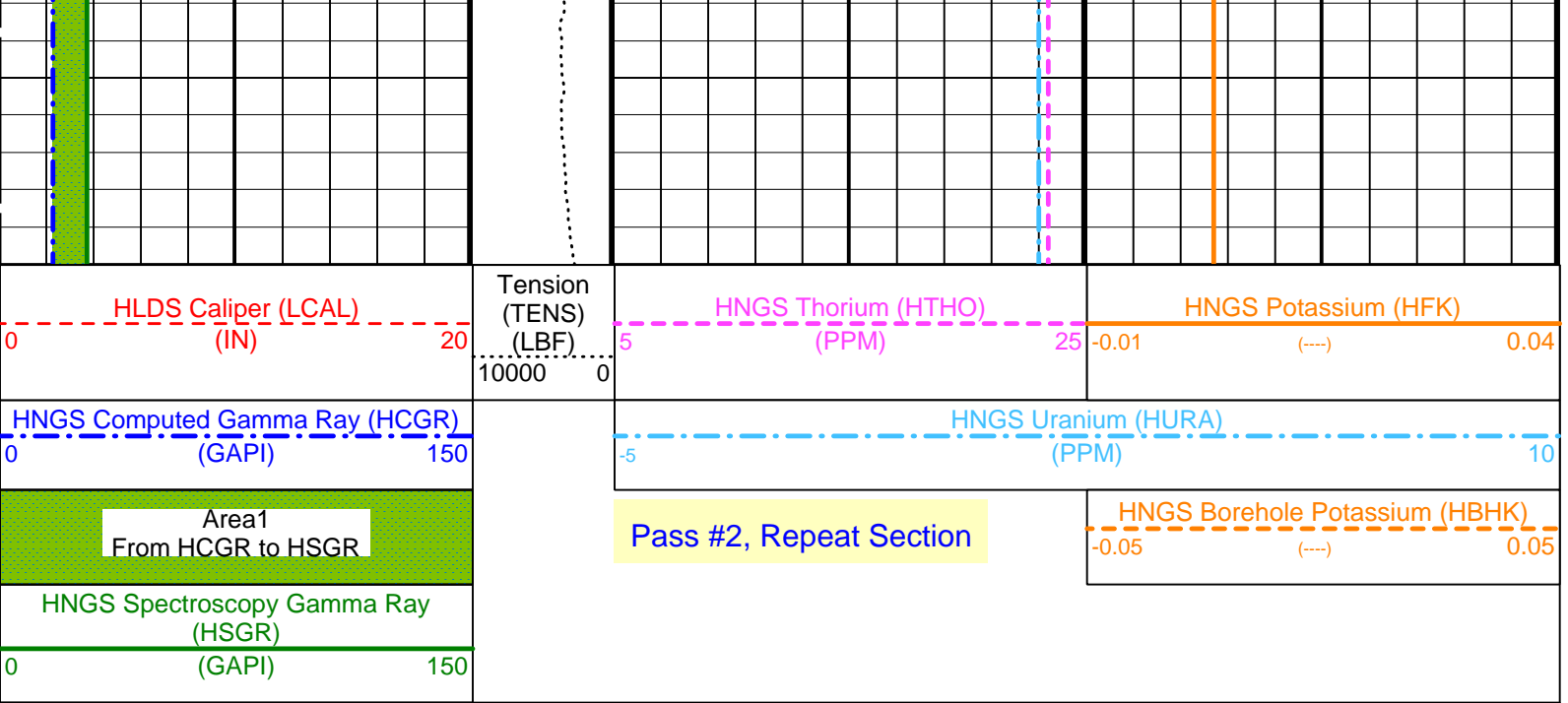
3625

3650

3675

-Caliper Opened





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	-0.0152604
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	0.972818
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.982813
System and Miscellaneous		
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.10 G/C3

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 31-Jan-2003 09:09

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_006LUP	FN:8	PRODUCER	31-Jan-2003 09:09
REDUCE	PI_LDL_APS_NGS_006LUP	FN:9	PRODUCER	31-Jan-2003 09:09

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: 31-Jan-2003 6:16 After: 19-Jan-2003 0:35							
Near Det Bkg Cntrate	30.00	32.65	33.77	31.59	-2.184	N/A	CPS
Far Det Bkg Cntrate	30.00	31.56	32.99	33.02	0.02923	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	29.11	28.51	28.71	0.1973	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	29.96	30.18	29.94	-0.2416	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.97	31.86	32.50	0.6338	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	--	--	--	--	
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	417

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 - B	NPLC - B	50

Auxiliary Equipment:
NPLC Housing

NPH - B

82

Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:

Accelerator-Porosity Sonde
APS Minitron

APS - BA
MNTR - F

22
4185

Auxiliary Equipment:

Accelerator-Porosity Housing
APS Calibration Water Tank
APS Aluminium Calibrator Sleeve

APH - AC
SFT - 178
SFT - 281

22
4722
24

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde

HNGS - BA

77

Auxiliary Equipment:

HNGS Sonde Housing
Gamma Source Radioactive

HNSH - BA
GSR - U

79
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		40.59	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)	

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	Phase	Th Peak Res %	Value	
Master		41.00	Master		209.3	Master		8.207	
	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			
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	Phase	Th Peak Res %	Value	
Master		41.00	Master		209.3	Master		7.848	
	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			
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 1258C

Field: Demarara Rise

Country: Venezuela

Ocean: Atlantic

Natural Gamma Ray

HNGS