

Company: Lamont Doherty

Well: ODP Leg 201, Site 1226B EQP-1A

Field: Equatorial Pacific

Rig: JOIDES Resolution Ocean: Pacific

Natural Gamma Ray

3 Deg 5.7' S Latitude
90 Deg 49.1' W Longitude

Elev.:	K.B.	11.3 m
	G.L.	-3308 m
	D.F.	11 m

Permanent Datum: _____

MSL _____

Elev.: _____

Log Measured From: _____

RKB _____

11.3 m above Perm. Datum

Drilling Measured From: _____

RKB _____

API Serial No. _____

Max. Hole Devi.
0 deg

Longitude _____

Latitude _____

Rig: JOIDES Resolution

Field: Equatorial Pacific

Location: 3 Deg 5.7' S Latitude

Well: ODP Leg 201, Site 1226B EQP-1

Company: Lamont Doherty

Logging Date

23-Feb-2002

Run Number

1

Depth Driller

3730 m

Schlumberger Depth

3731 m

Bottom Log Interval

3700 m

Top Log Interval

3309 m

Casing Driller Size @ Depth

0.000 in @ 3373 m

Casing Schlumberger

3375 m

Bit Size

11.438 in

Type Fluid In Hole

Sepiolite/Saltwater

Density

1.07 g/cm3

Fluid Loss

PH _____

Source Of Sample

mudpit

RM @ Measured Temperature

0.235 ohm.m @ 33 degC

RMF @ Measured Temperature

@ @

RMC @ Measured Temperature

@ @

Source RMF

RMC

none

@ 14

RM @ MRT

RMF @ MRT

0.366 @ 14

@ 14

Maximum Recorded Temperatures

14 degC

Circulation Stopped

22-Feb-2002

20:00

Logger On Bottom

23-Feb-2002

04:00

Unit Number

99

Houston ODP

Recorded By

K. Swain

Witnessed By

Gilles Guerin

	Run 1	Run 2	Run
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			
Density			
Fluid Loss			
Source Of Sample			
RM @ Measured Temperature			
RMF @ Measured Temperature			
RMC @ Measured Temperature			
Source RMF			
RM @ MRT			
Maximum Recorded Temperatures			
Circulation Stopped			
Logger On Bottom			
Unit Number			
Recorded By			
Witnessed By			

DISCLAIMER

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



OTHER SERVICES1 OS1: DITE OS2: HLDT/APS OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
-----------------------------------------------------------------------	---------------------------------------------------------

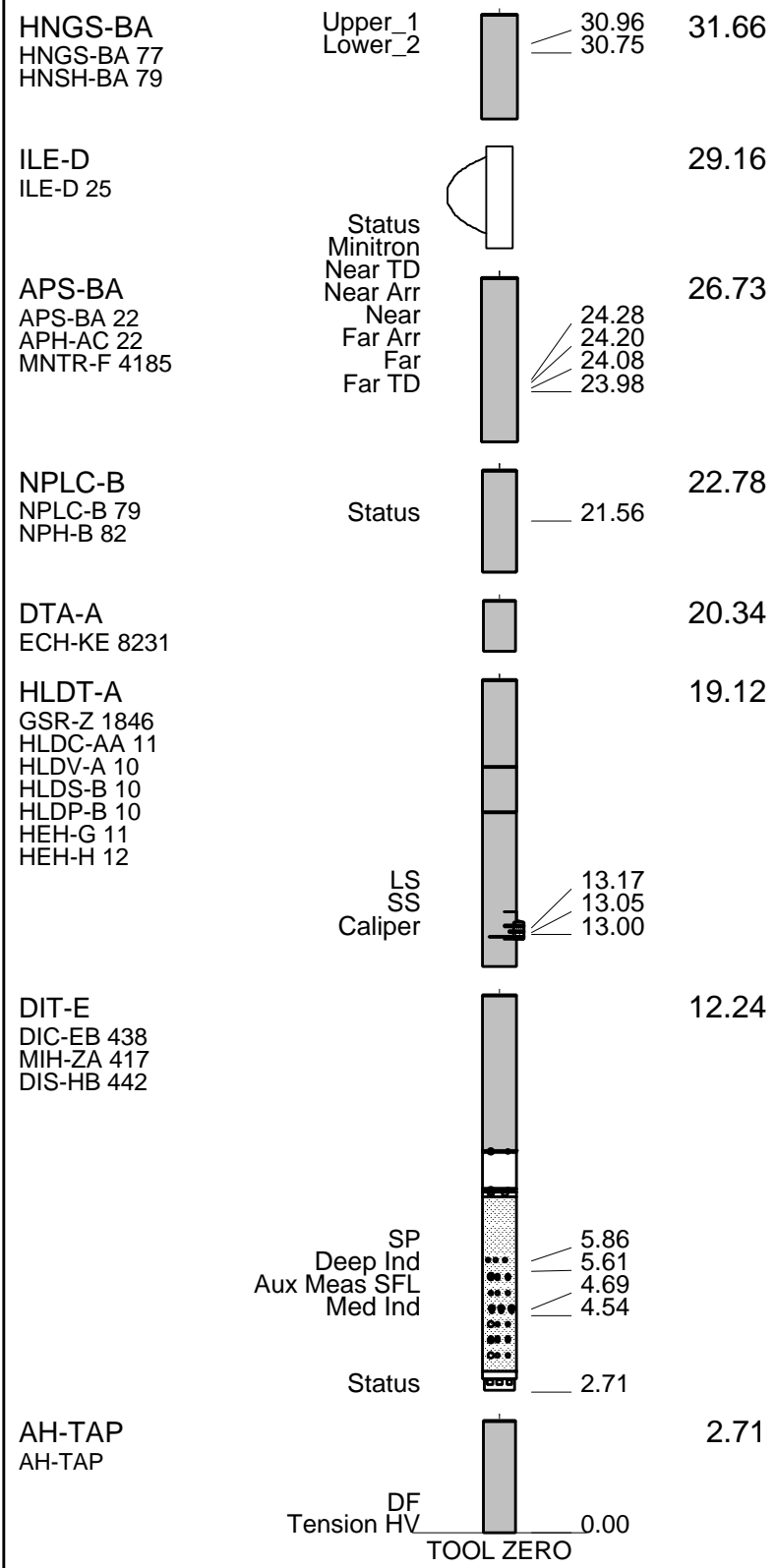
REMARKS: RUN NUMBER 1 Hole cored with APC, XCB, PCS. Log presented in meters below rig floor. Lamont Temperature tool (TAP) was run on Triple Combo. Wireline Heave Compensator (WHC) was used on all descents. Sepiolite mud was used to displace the hole during the wiper trip after drillin Drillers TD 3730 mbrf, Driller pipe depth: 3383 mbrf, Sea Floor: 3308 mbrf. Schlumberger TD 3731 mbrf. Drill Pipe Schlumberger 3375 mbrf. Sea Floor Schlumberger 3309 mbrf.	REMARKS: RUN NUMBER 2
Software bug shows APS calibration not done for part of calibration. Low background countrate on HNGS master calibration signifies a weak internal source used for check of detector and not used in calibration.	

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

EQUIPMENT DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT			
SFT-281 24	WITM (DTS)-A		
SFT-178 4722			
GSR-U 135			
GSR-U/Y			

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



TOOL ZERO

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

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_007LUP	FN:10	PRODUCER	23-Feb-2002 04:08	3733.0 M	3286.7 M
REDUCED	PI_LDL_APS_NGS_007LUP	FN:11	PRODUCER	23-Feb-2002 04:08	3733.0 M	3286.7 M

OP System Version: 10C0-306 MCM

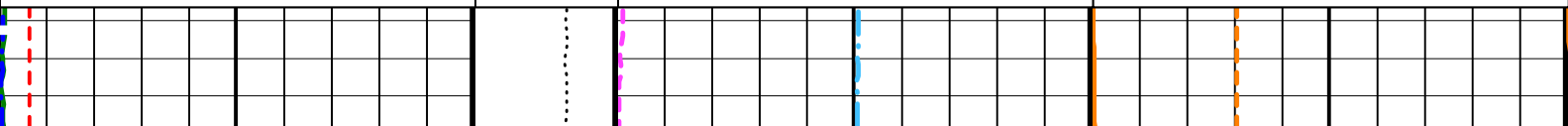
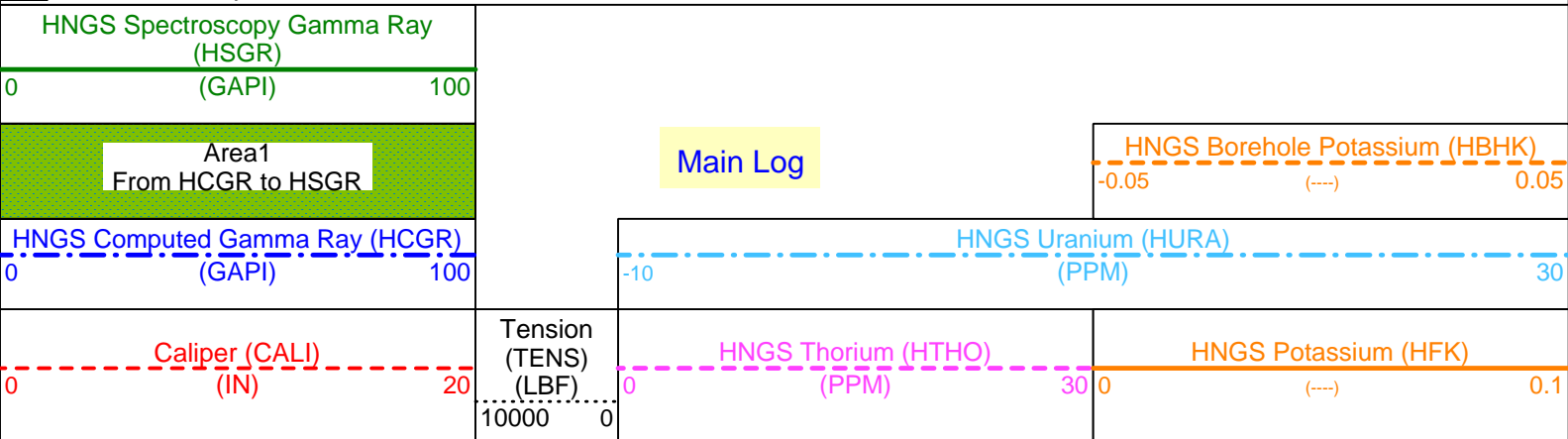
DIT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
SGT-N	10C0-306	DTC-H	10C0-306

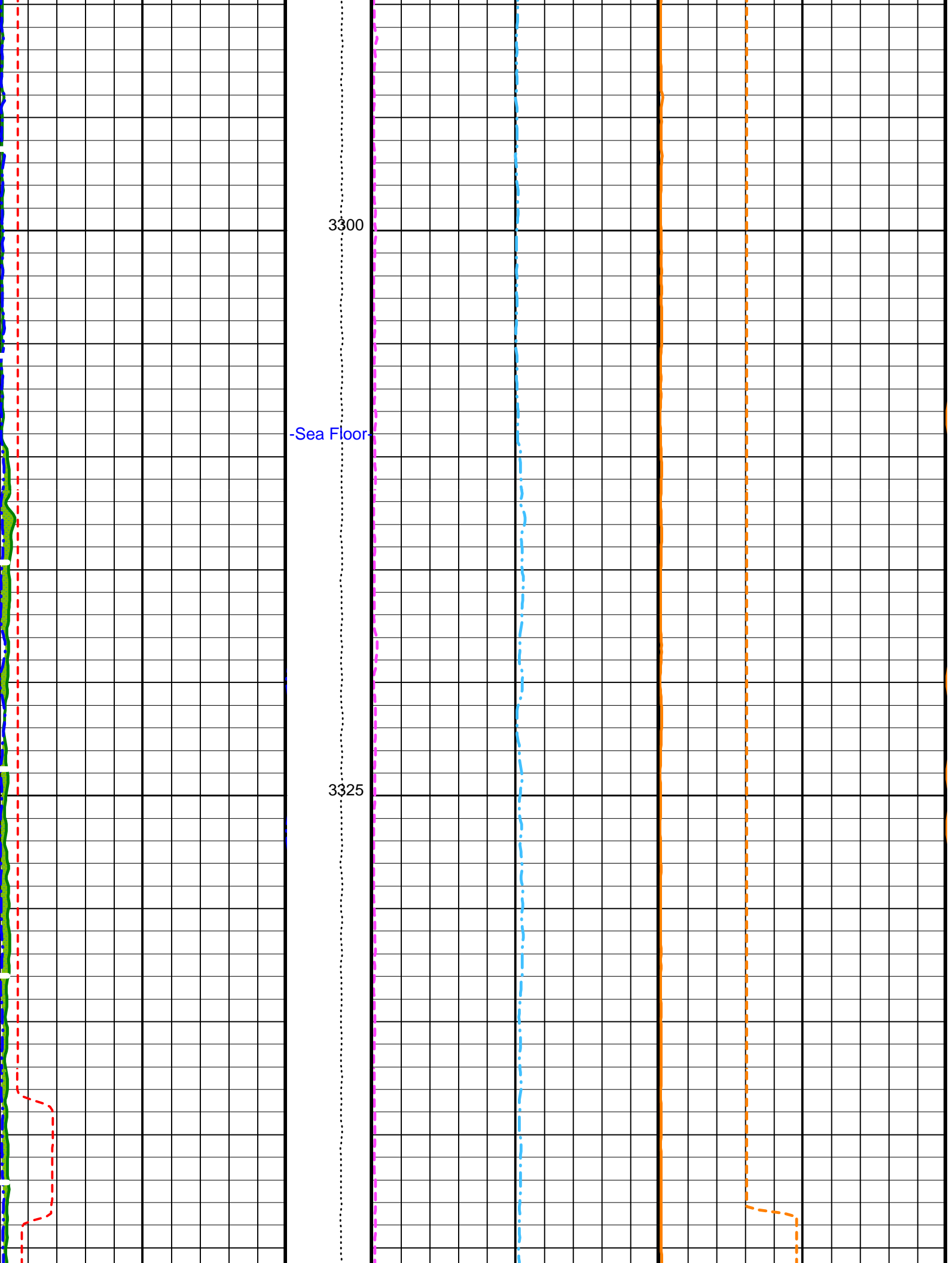
Changed Parameter Summary

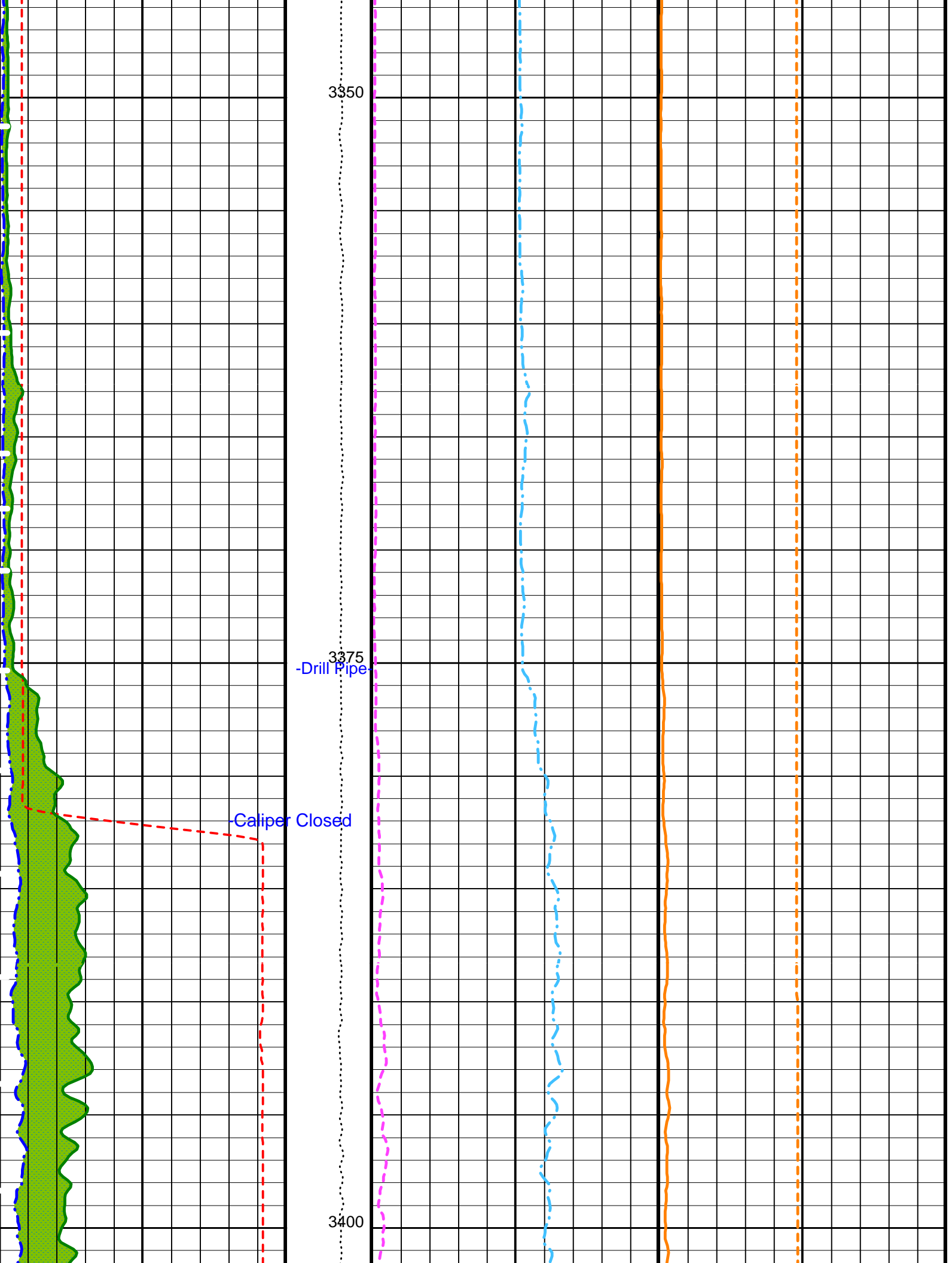
DLIS Name	New Value	Previous Value	Depth & Time
GCSE	CALI	BS	3710.8 04:19:06

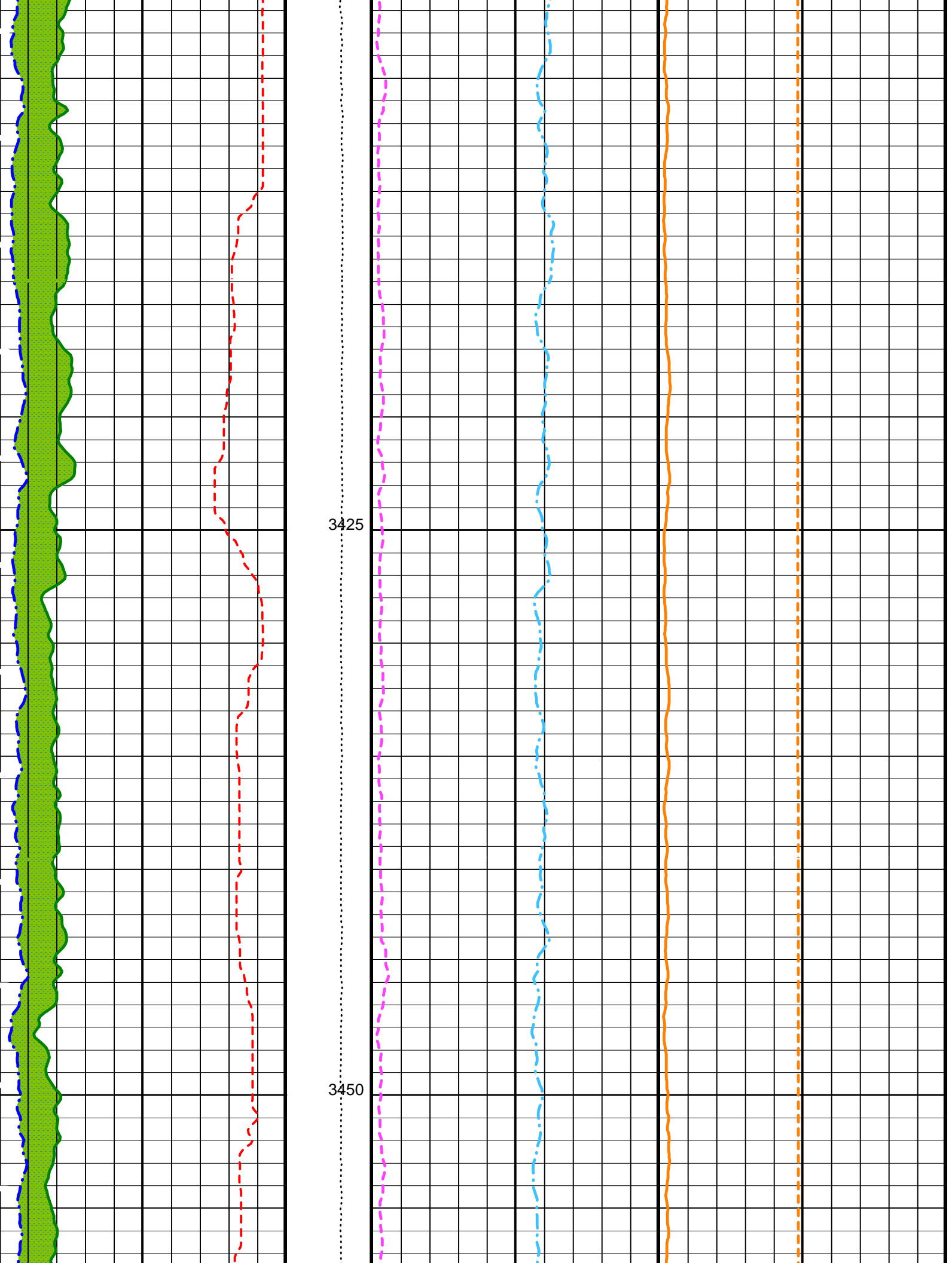
PIP SUMMARY

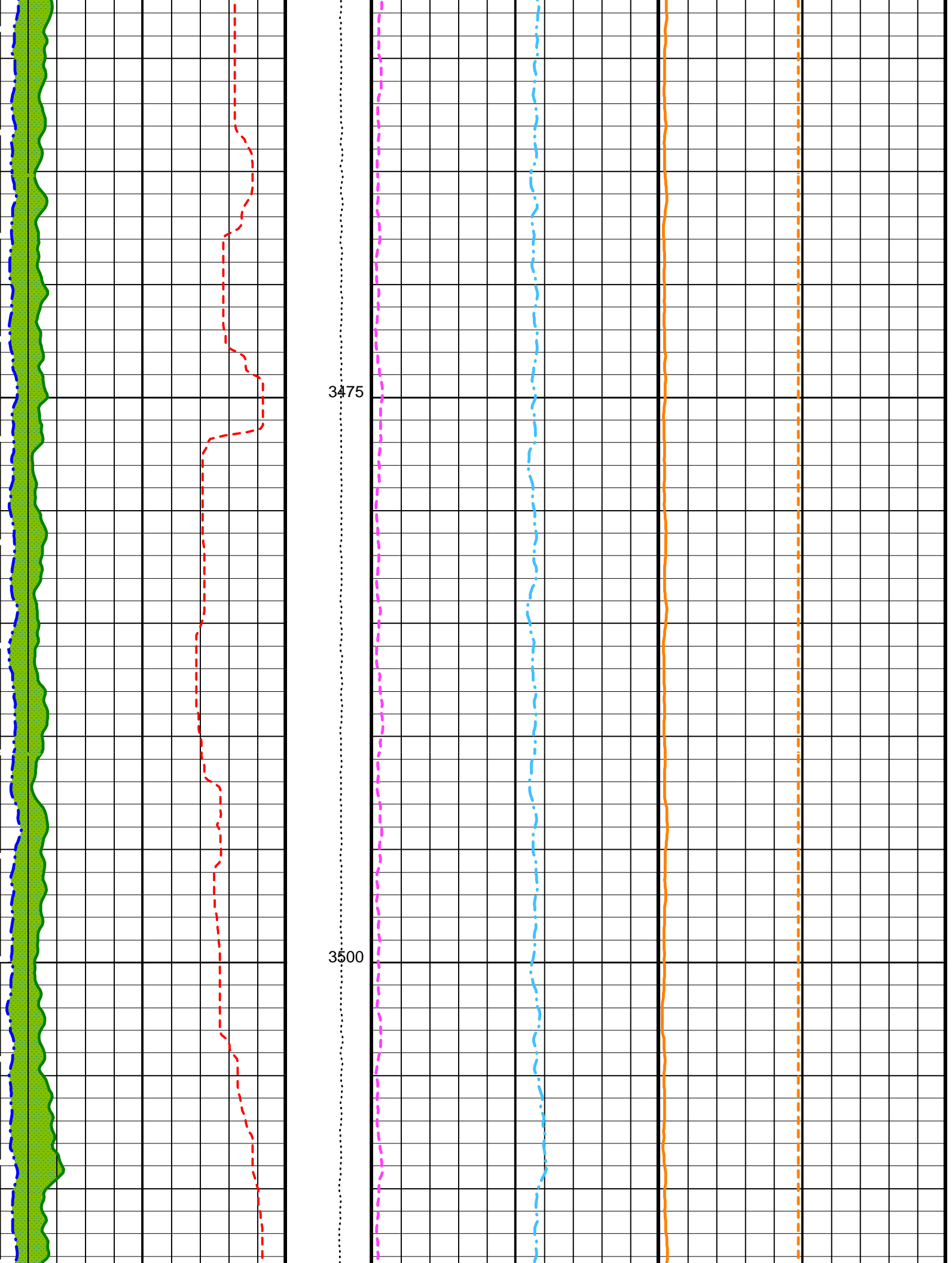
Time Mark Every 60 S

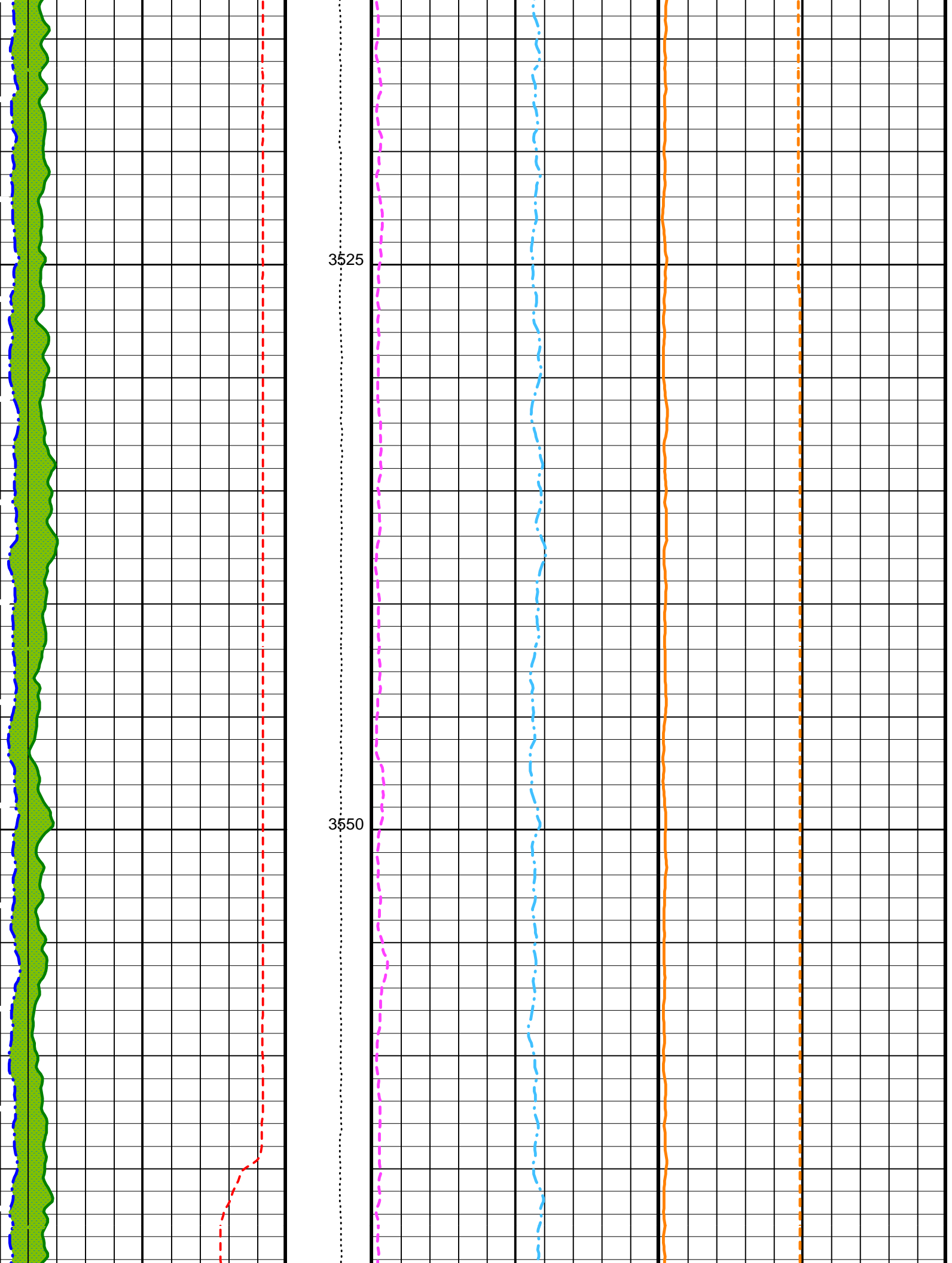


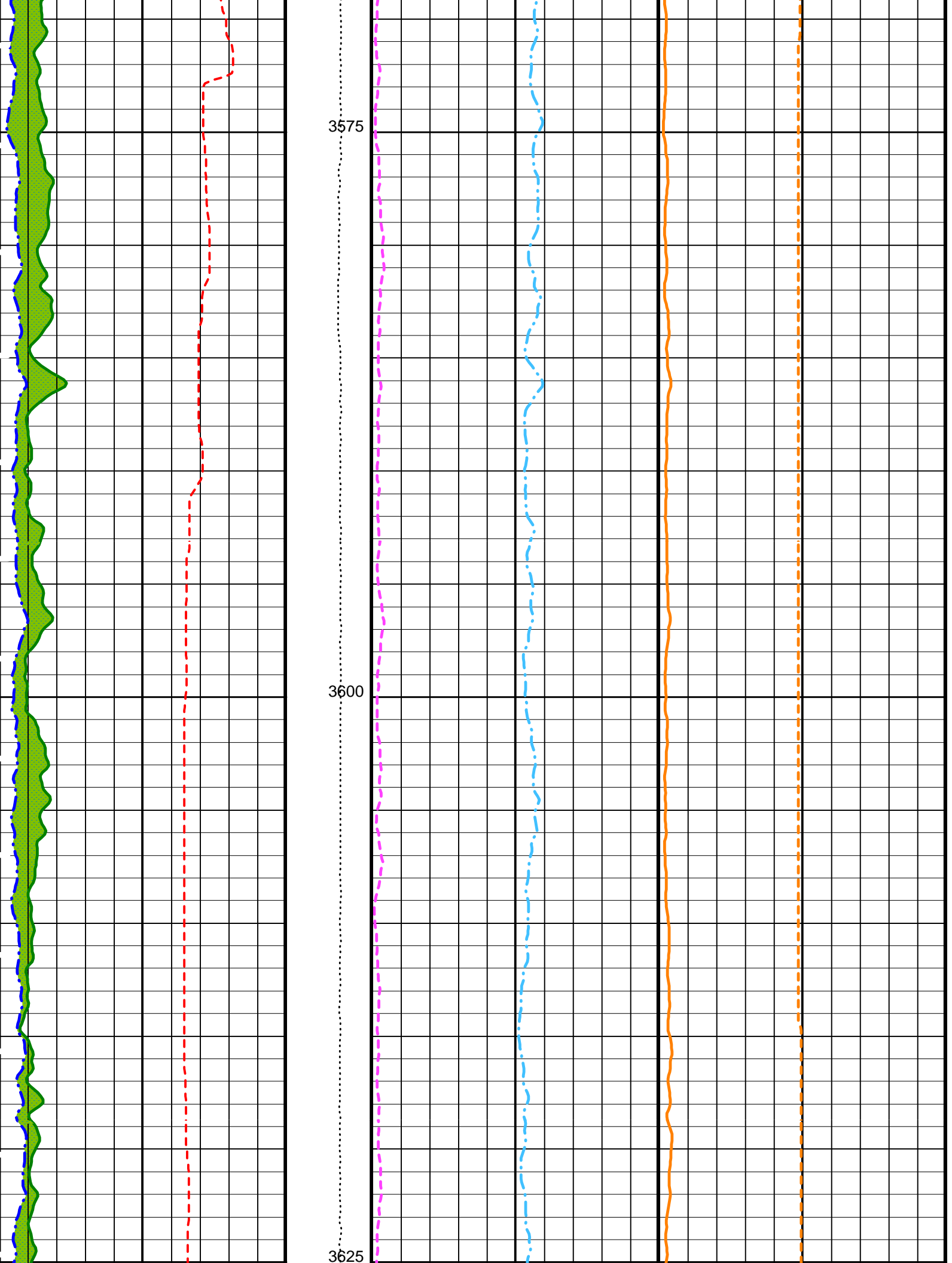


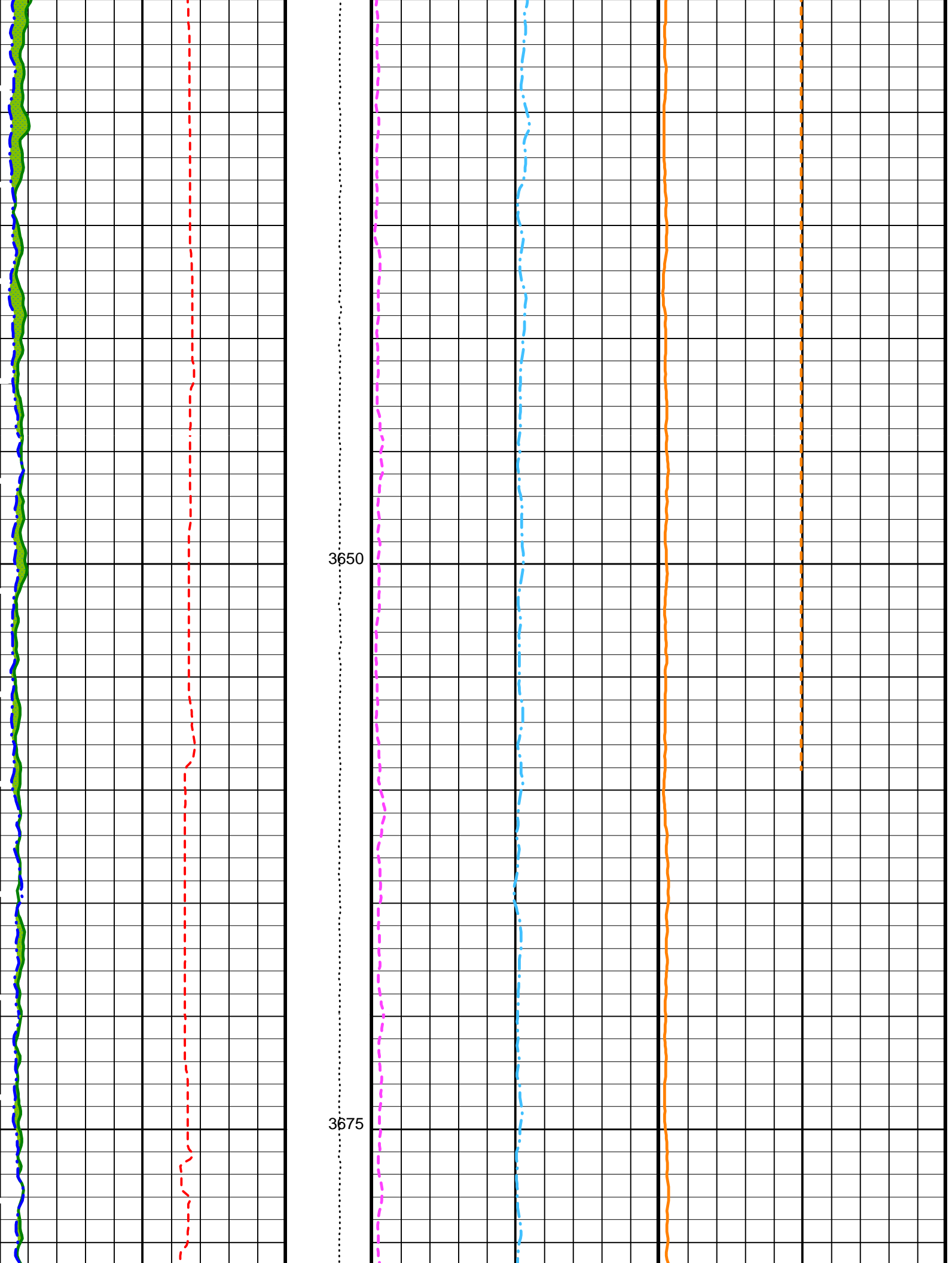


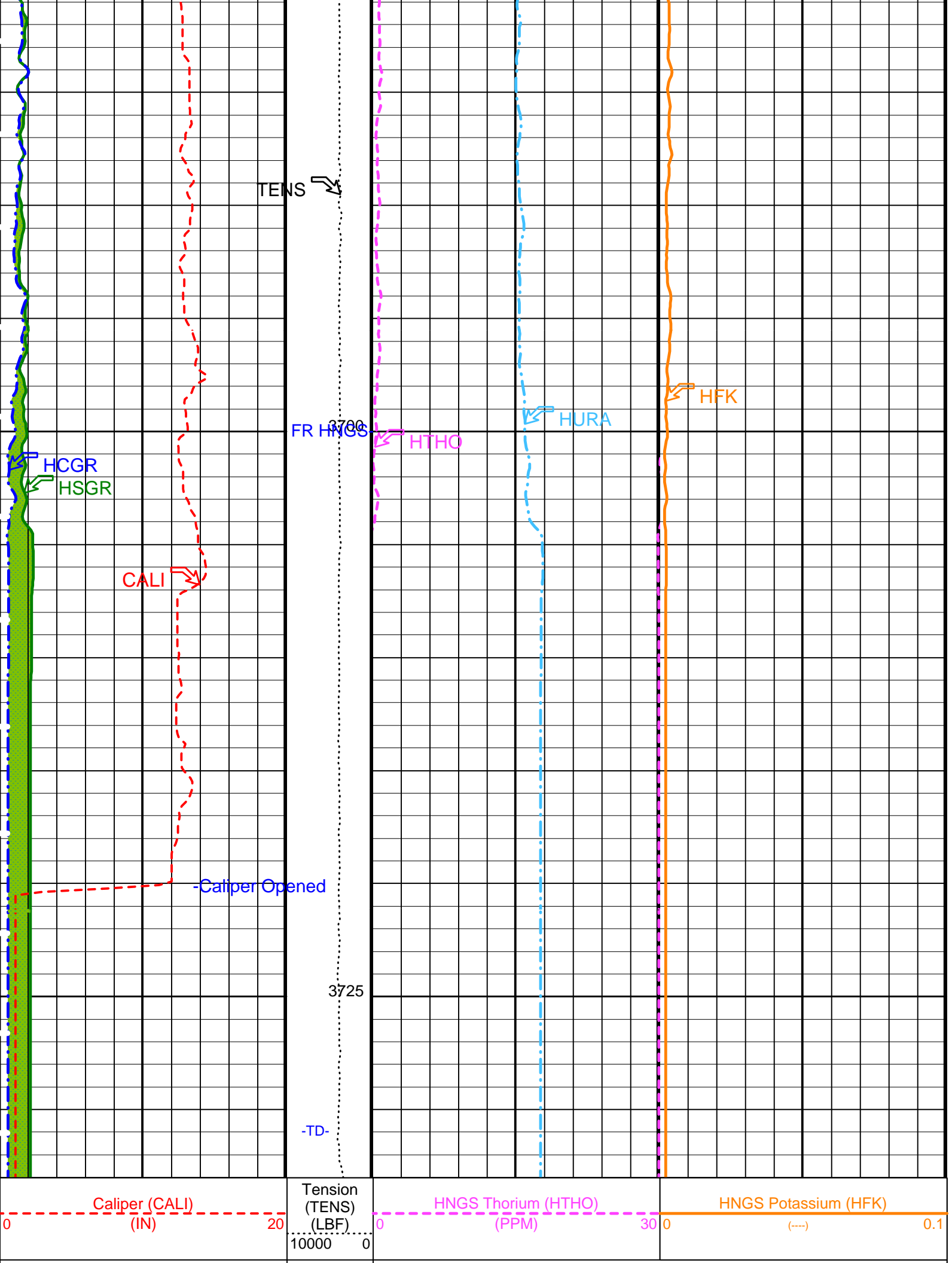












Area1
From HCGR to HSGR

Main Log

HNGS Borehole Potassium (HBHK)
-0.05 (---) 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-BA: 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	-0.00249796	
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	0.946744	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03743	
SGT-N: Scintillation Gamma-Ray - N			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.07	G/C3

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 23-Feb-2002 04:08

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:10	PRODUCER	23-Feb-2002 04:08
REDUCED	PI_LDL_APS_NGS_007LUP	FN:11	PRODUCER	23-Feb-2002 04:08

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_008LUP	FN:12	PRODUCER	23-Feb-2002 05:54	3733.0 M	3595.3 M
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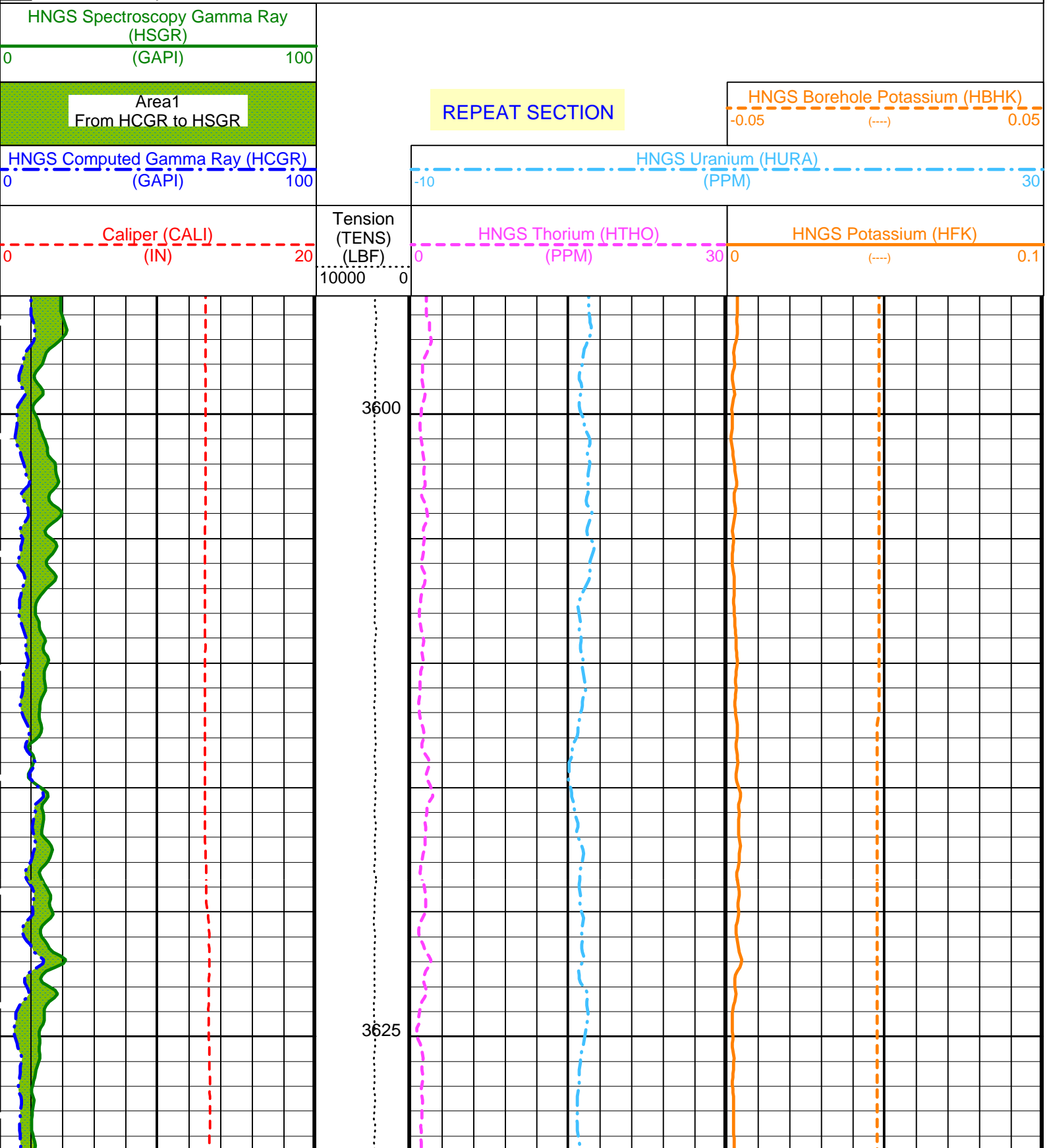
OP System Version: 10C0-306

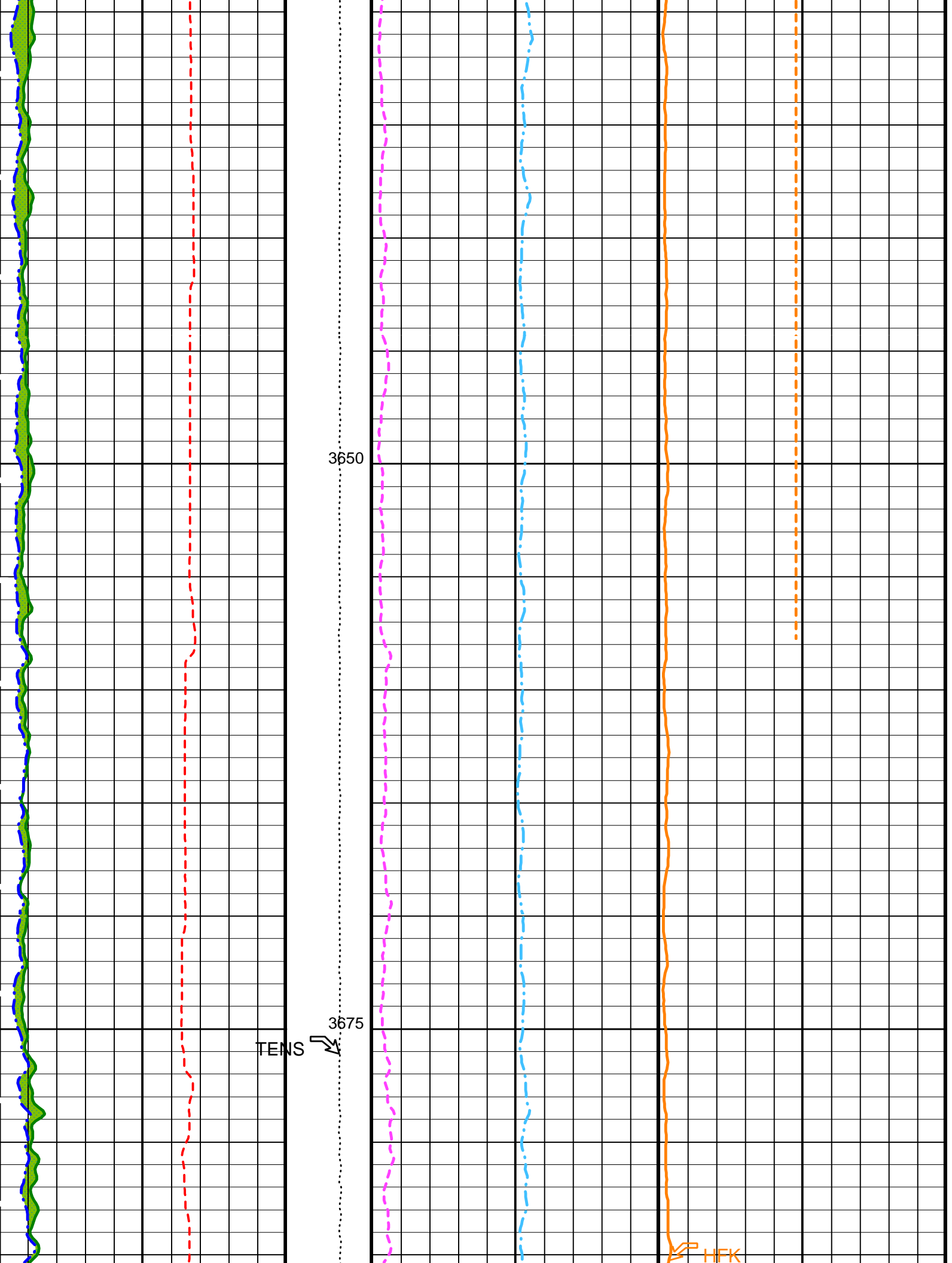
MCM

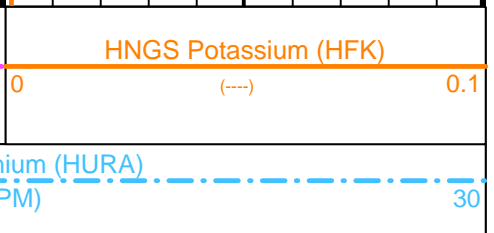
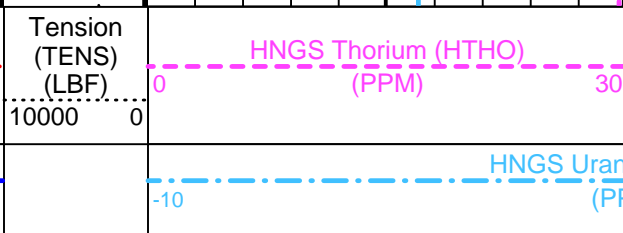
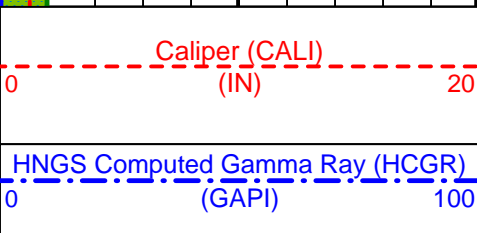
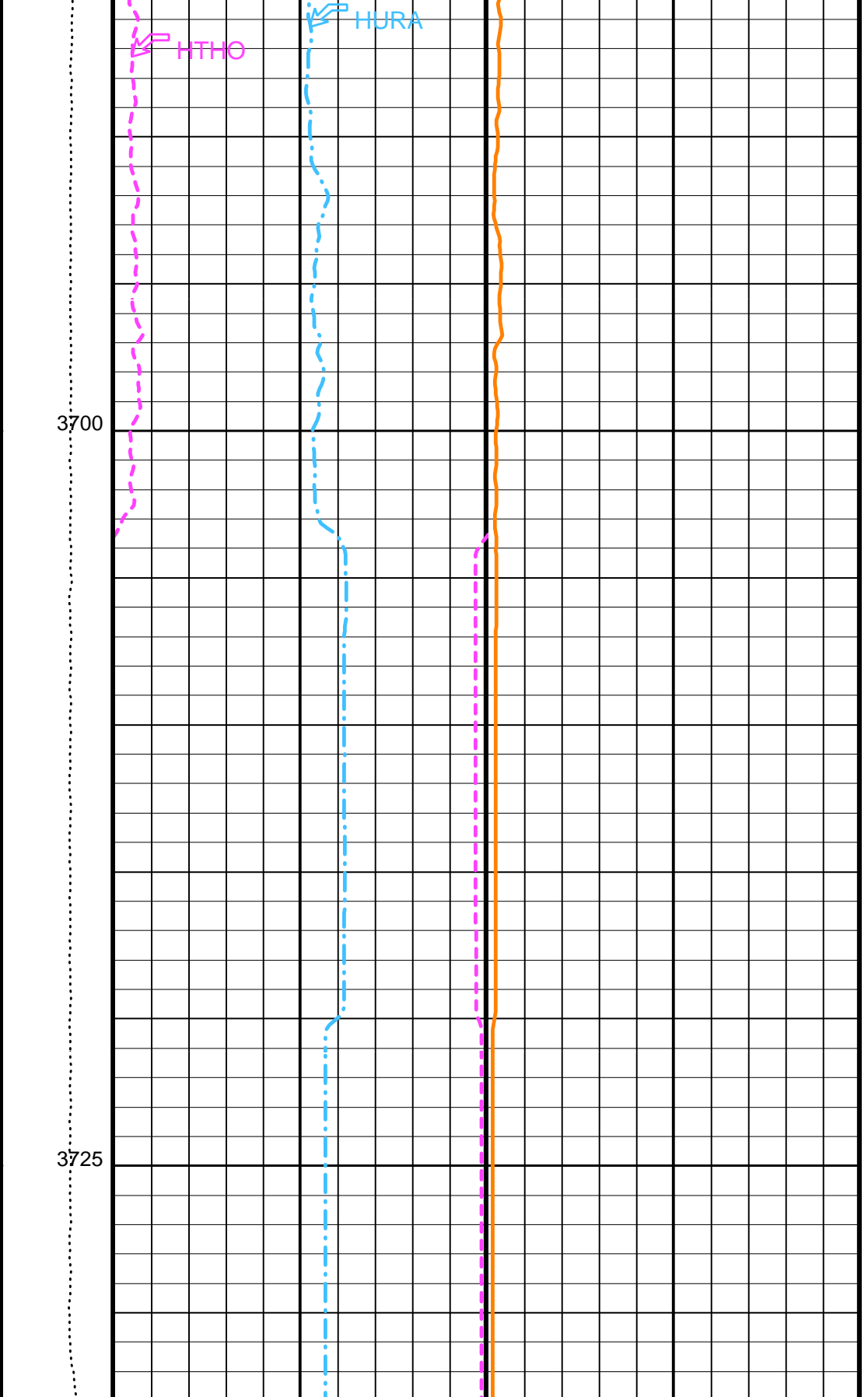
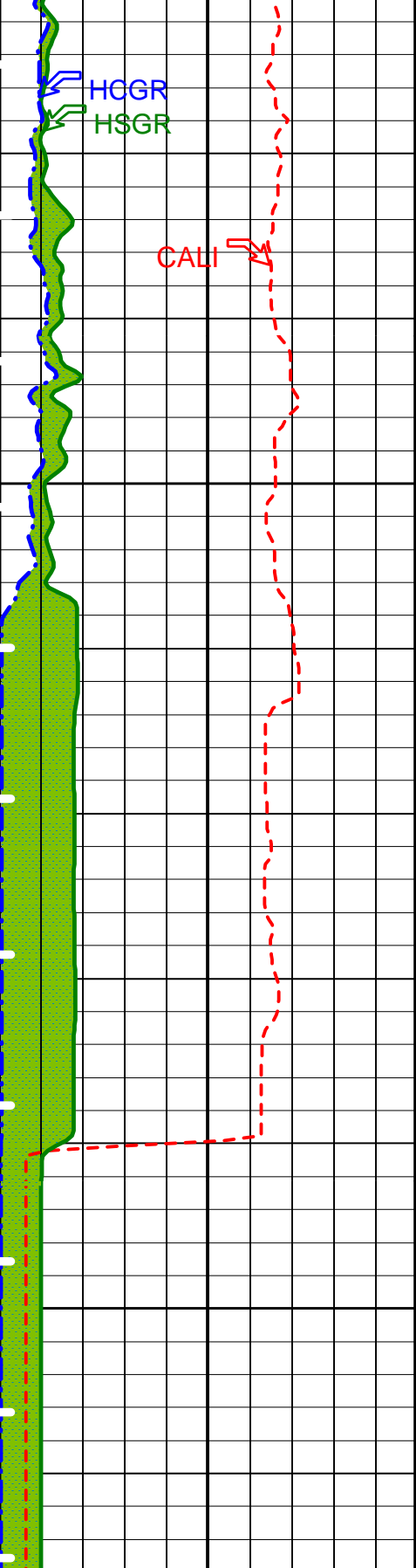
DIT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
SGT-N	10C0-306	DTC-H	10C0-306

PIP SUMMARY

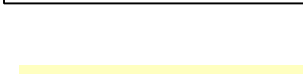
Time Mark Every 60 S







Area1
From HCGR to HSGR



HNGS Borehole Potassium (HBHK)
-0.05 (---) 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	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	-0.00412388	
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	0.964524	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.03908	
	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

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 23-Feb-2002 05:54

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_008LUP	FN:12	PRODUCER	23-Feb-2002 05:54
REDUCED	PI_LDL_APS_NGS_008LUP	FN:13	PRODUCER	23-Feb-2002 05:54

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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Hostile Environment Litho Density - A Wellsite Calibration - Background Measurement

Master: 25-Jan-2002 14:22 Before: 21-Feb-2002 4:36 After: 23-Feb-2002 9:30

LSW1 Background	100.0	89.06	86.19	88.51	2.321	0.03000	CPS
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LSW2 Background	105.0	93.23	91.94	93.09	1.147	0.03000	CPS
LSW3 Background	210.0	180.0	177.0	180.6	3.649	0.03000	CPS
LSW4 Background	290.0	237.9	235.4	239.5	4.092	0.03000	CPS
LSW5 Background	610.0	529.6	525.7	523.1	-2.590	0.03000	CPS
SSW1 Background	100.0	85.18	85.99	86.01	0.01646	0.03000	CPS
SSW2 Background	200.0	166.8	165.6	166.4	0.7753	0.03000	CPS
SSW3 Background	530.0	446.5	445.9	442.3	-3.596	0.03000	CPS
SSW4 Background	280.0	235.8	234.2	233.9	-0.3068	0.03000	CPS
SSW5 Background	205.0	176.3	175.5	175.6	0.1184	0.03000	CPS

Hostile Environment Litho Density - A Wellsite Calibration - Tool Quality Control Information High Voltage

Master: 25-Jan-2002 14:22 Before: 21-Feb-2002 4:36 After: 23-Feb-2002 9:30

LS Bkg. High Voltage	1129	1129	1134	1134	0.3704	N/A	V
SS Bkg. High Voltage	1173	1173	1180	1178	-2.740	N/A	V

Hostile Environment Litho Density - A Wellsite Calibration - Detectors Resolution From BKG Measurements

Master: 25-Jan-2002 14:22 Before: 21-Feb-2002 4:36 After: 23-Feb-2002 9:30

LS Background Resolution	1.000	1.042	1.032	1.026	-0.005472	N/A	
SS Background Resolution	1.000	0.9530	0.9479	0.9397	-0.008216	N/A	

Hostile Environment Litho Density - A Wellsite Calibration - Caliper Calibration

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

Accelerator-Porosity Tool Wellsite Calibration - Detector Background

Master: 25-Jan-2002 18:34 Before: 23-Feb-2002 2:28 After: 23-Feb-2002 7:57

Near Det Bkg Cntrate	30.00	32.90	31.33	33.12	1.781	N/A	CPS
Far Det Bkg Cntrate	30.00	34.46	32.21	34.22	2.011	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.56	29.53	29.72	0.1931	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.78	30.63	30.26	-0.3764	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.89	31.86	34.58	2.719	N/A	CPS

Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios

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	

Accelerator-Porosity Tool Wellsite Calibration - Tank Check

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 After: 23-Feb-2002 9:26

Na 511 Peak Loc	40.00	40.51	40.71	40.48	-0.2294	1.000	
Na 511 Peak Res	15.50	15.75	17.24	16.32	-0.9218	2.000	%
High Voltage	1150	1203	1207	1210	3.379	30.00	V
Na 1785 Peak Loc	142.6	144.6	146.2	145.7	-0.4739	7.000	
Na 1785 Peak Res	8.500	9.254	9.073	9.122	0.04892	2.000	%
Temperature	15.50	21.86	29.34	30.57	1.233	N/A	DEGC
Na Count Rate	45.00	39.29	40.56	38.95	-1.605	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 After: 23-Feb-2002 9:26

Na 511 Peak Loc	40.00	40.54	40.54	40.55	0.01313	1.000	
Na 511 Peak Res	15.50	16.19	16.67	16.99	0.3272	2.000	%
High Voltage	1150	1233	1236	1240	4.311	30.00	V
Na 1785 Peak Loc	142.6	143.9	144.1	144.8	0.7095	7.000	
Na 1785 Peak Res	8.500	9.453	8.968	8.775	-0.1931	2.000	%
Temperature	15.50	21.24	29.04	31.27	2.228	N/A	DEGC
Na Count Rate	45.00	39.11	40.36	38.42	-1.934	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 After: 23-Feb-2002 9:26

Coincidence Count Rate Ratio	1.000	1.004	1.005	1.011	0.005641	0.05000	
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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: 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
HOSTILE ENVIRONMENT LITHO DENSITY PAD	HLDP - B	10

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 Aluminium 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			40.51	Master			15.75	Master			1203
Before			40.71	Before			17.24	Before			1207
After			40.48	After			16.32	After			1210
	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
After			145.7	After			9.122	After			30.57
	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								
After			38.95								
	15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)								
Master: 23-Jan-2002 11:37				Before: 7-Feb-2002 1:13				After: 23-Feb-2002 9:26			

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
After			40.55	After			16.99	After			1240
	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
After			144.8	After			8.775	After			31.27
	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								
After			38.42								
	15.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)								
Master: 23-Jan-2002 11:37				Before: 7-Feb-2002 1:13				After: 23-Feb-2002 9:26			

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
After		1.011
	0.9500 (Minimum)	1.000 (Nominal)
		1.050 (Maximum)
Master: 23-Jan-2002 11:37		
Before: 7-Feb-2002 1:13		
After: 23-Feb-2002 9:26		

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				
Master			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

[See Remarks](#)

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				
Master			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

[See Remarks](#)

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

Company:	Lamont Doherty	Schlumberger
Well:	ODP Leg 201, Site 1226B EQP-1A	
Field:	Equatorial Pacific	
Rig:	JOIDES Resolution	
Ocean:	Pacific	

Natural Gamma Ray