

COMPANY: Lamont Doherty

WELL: ODP Leg 189, Site 1172D (ETP-2A)

FIELD: East Tasmania

COUNTY: Offshore STATE: Pacific Ocean

Schlumberger Natural Gamma Spectrometry Log

COUNTY: Offshore
Field: East Tasmania
Location: ODP Leg 189, Site 1172D (ETP-2A)
Company: Lamont Doherty

Table with columns for LOCATION, Permanent Datum, Log Measured From, Drilling Measured From, API Serial No., LATITUDE, LONGITUDE, RIG, JOIDES Resolution, and Elevation data.

Main data table with columns: 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, RMC @ Measured Temperature, Source RMF, RMF @ MRT, Maximum Recorded Temperatures, Circulation Stopped, Logger On Bottom, Unit Number, Recorded By, Witnessed By.

Table with columns: Run 1, Run 2, Run 3 (partially visible)

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.


OTHER SERVICES1 OS1: DITE/HNGS OS2: GHMT/DSI OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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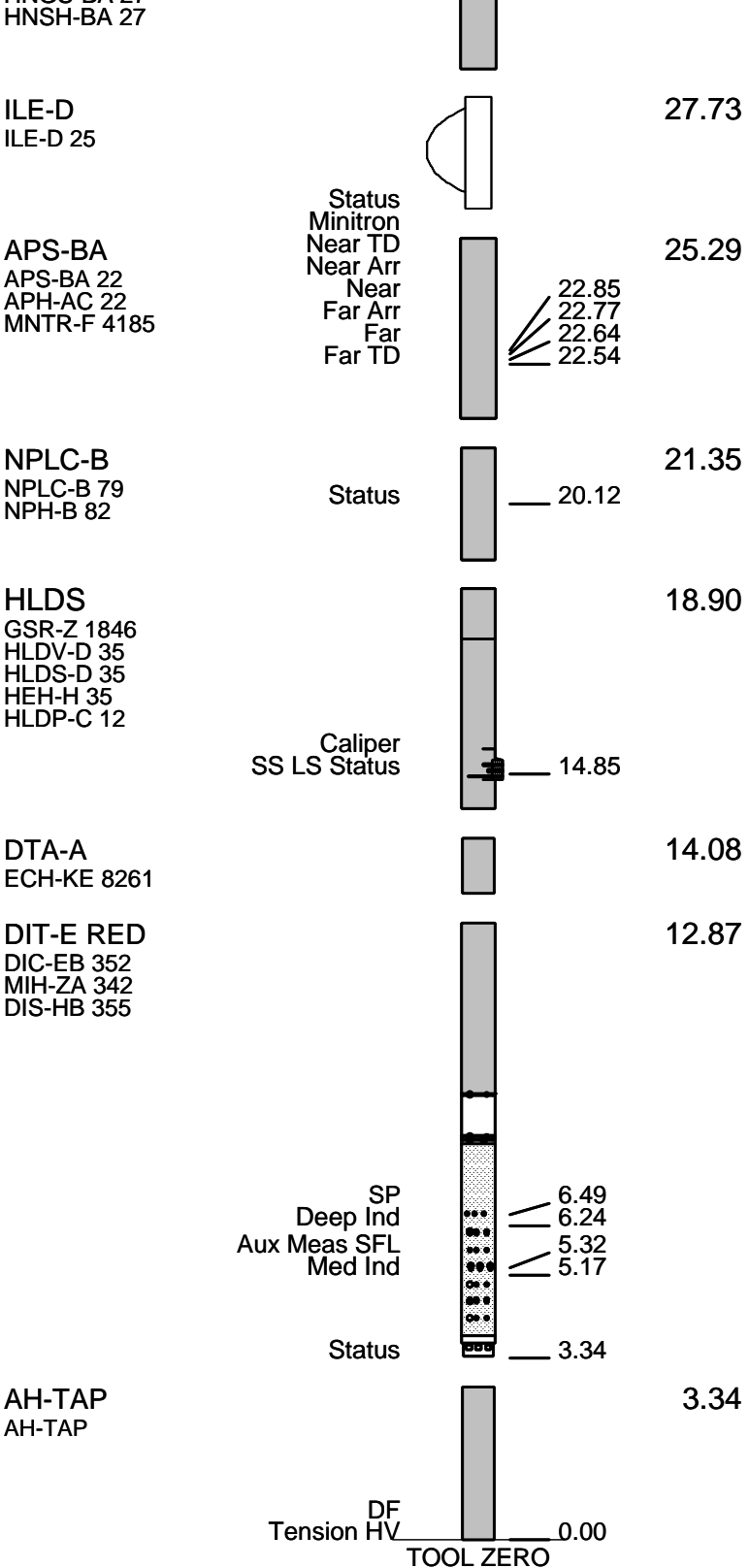
REMARKS: RUN NUMBER 1 Hole cored with RCB. Sea Floor at 2631 mbrf. Log presented in meters below rig floor. Lamont Temperature Tool (TAP) run on DITE/HLDS/APS/HNGS only. Wireline Heave Compensator used on all descents. Wireline heave compensator went out of range due to heavy heave conditions at 3339-3295, 3278-3257, 3066-2988, 2983-2965, 2918-2895, 2847-end of log. Sepiolite mud placed in the hole before logging. Drillers TD-3399.85 mbrf, Loggers TD-3395 mbrf, Drill Pipe Logger-2782 mbrf.	REMARKS: RUN NUMBER 2
HNGS background low but does not affect calibration. The caliper wear plate broke while logging due to heavy heave conditions.	

RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:		9C1-303	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 SFT-178 4722 GSR-U 135 WITM (DTS)-A	

DOWNHOLE EQUIPMENT			
LEH-QT		32.03	
LEH-QT			
DTC-H	CTEM	30.86	31.14
ECH-KC 8253	TelStatus ToolStatu	30.23	
HNGS-BA	Upper_1	29.53	30.23
HNGS-BA 27	Lower_2	29.32	



TOOL ZERO

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

Output DLIS Files

DEFAULT	DITE .012	FN:18 PRODUCER	02-May-2000 15:53	3397.0 M	2612.9 M
DITE_CUST	DITE .012	FN:19 PRODUCER	02-May-2000 15:53	3397.0 M	2612.9 M

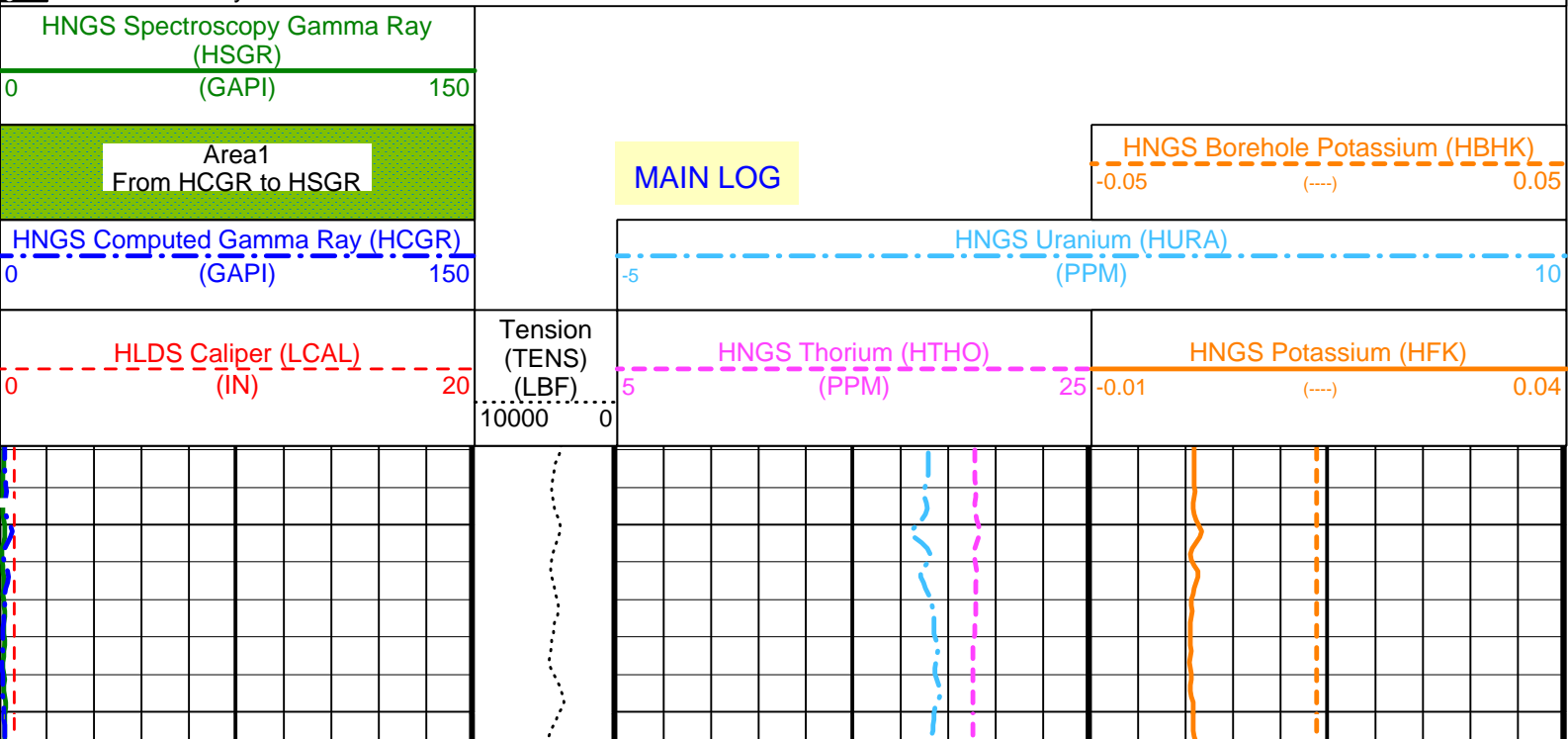
OP System Version: 9C1-303

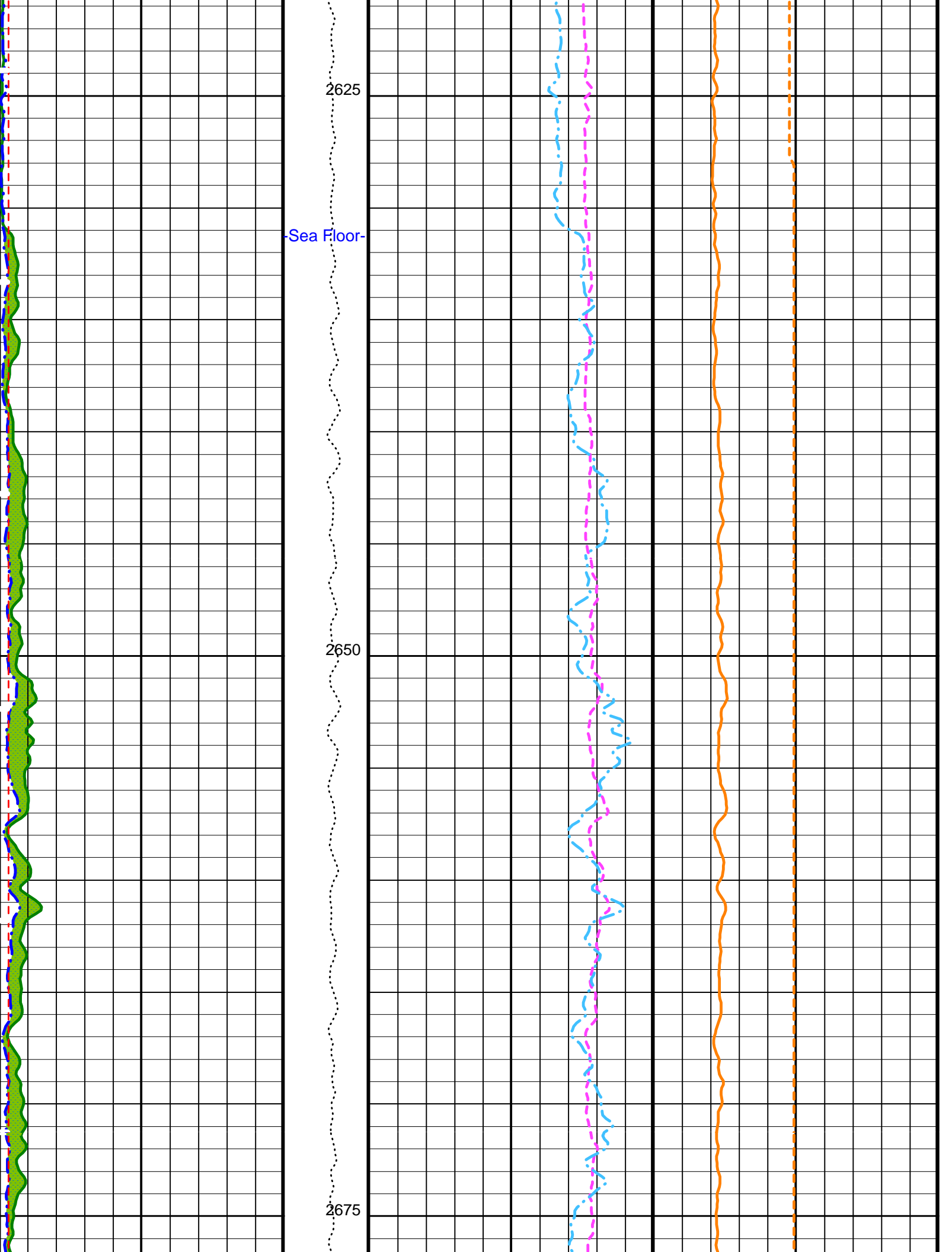
MCM

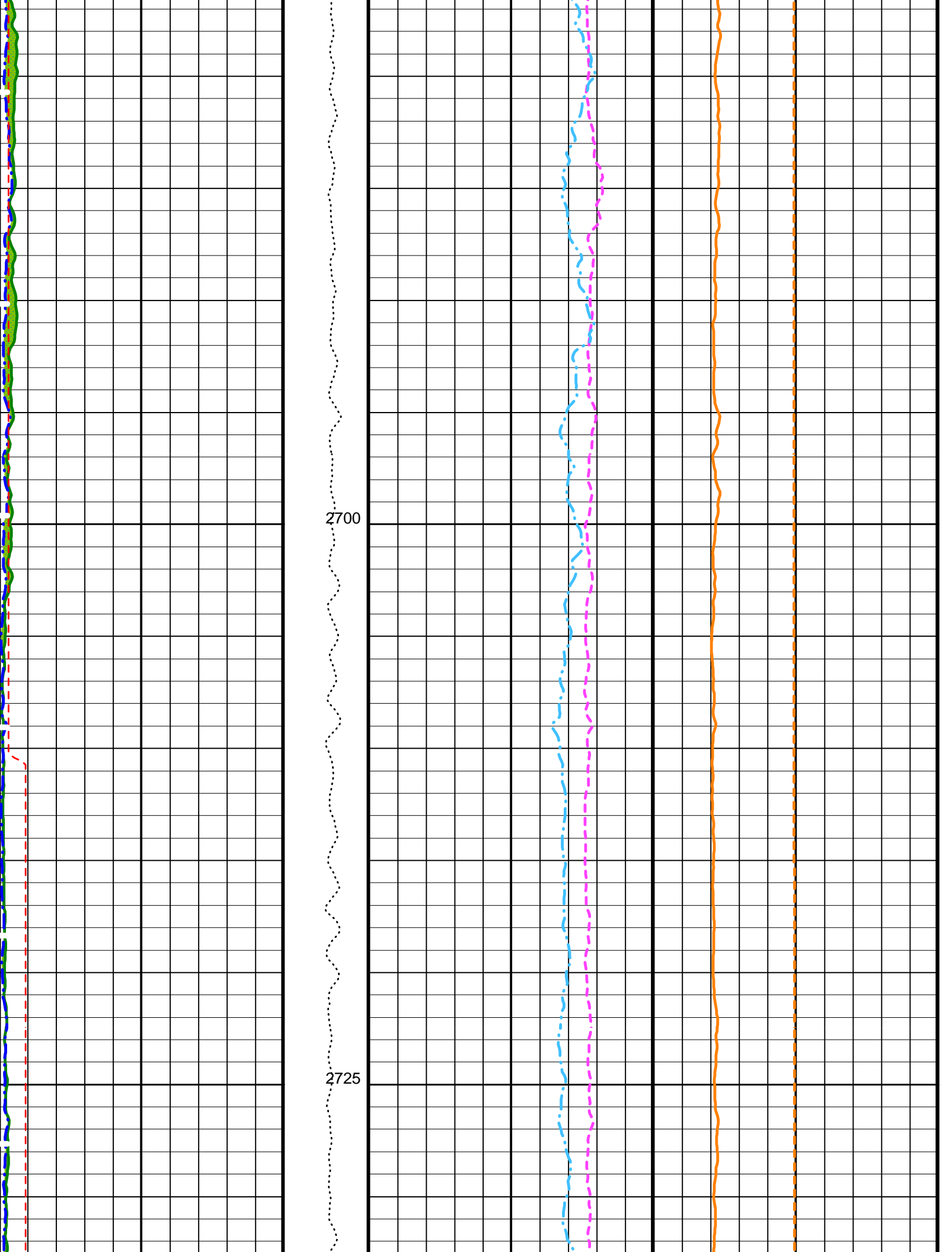
DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

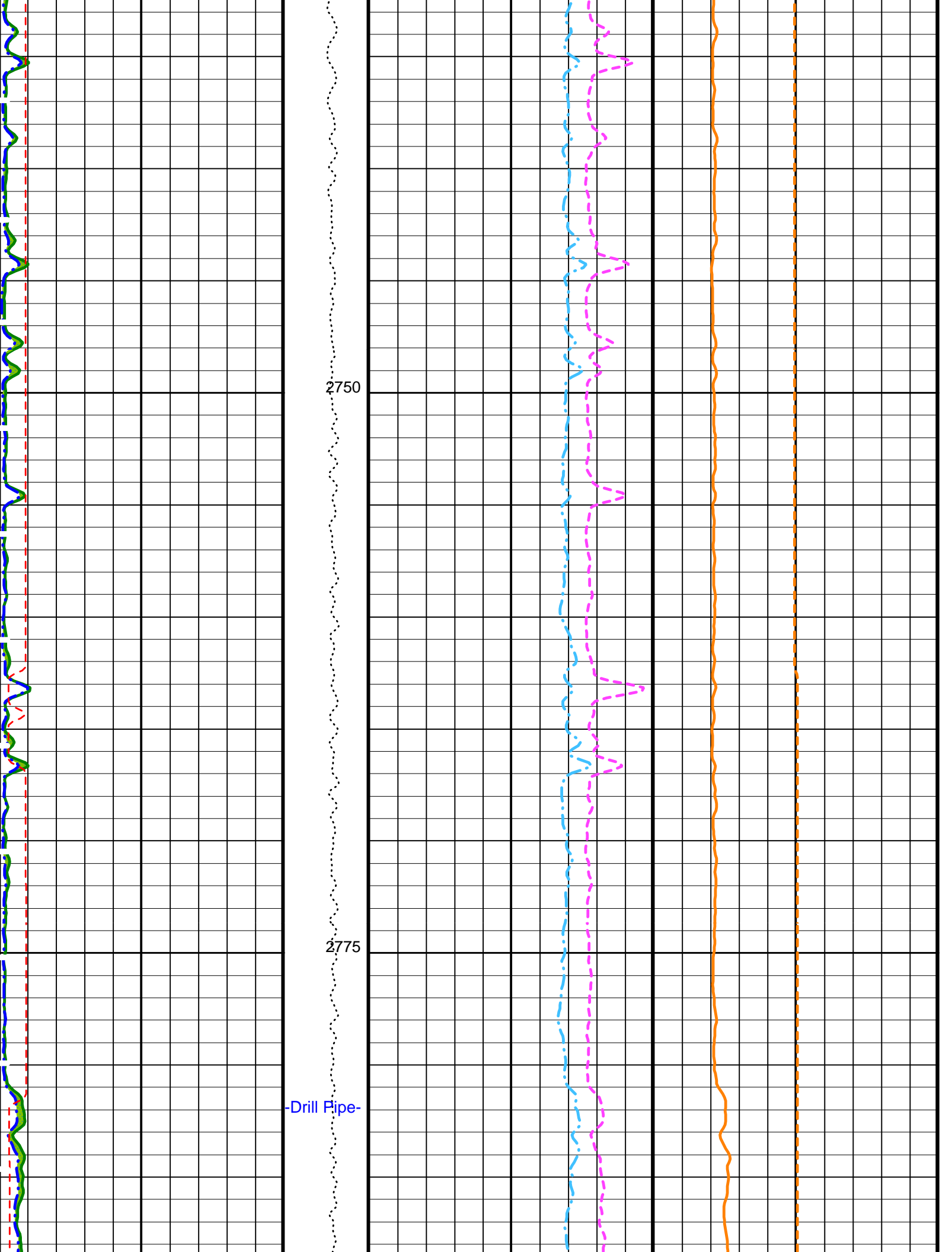
PIP SUMMARY

Time Mark Every 60 S





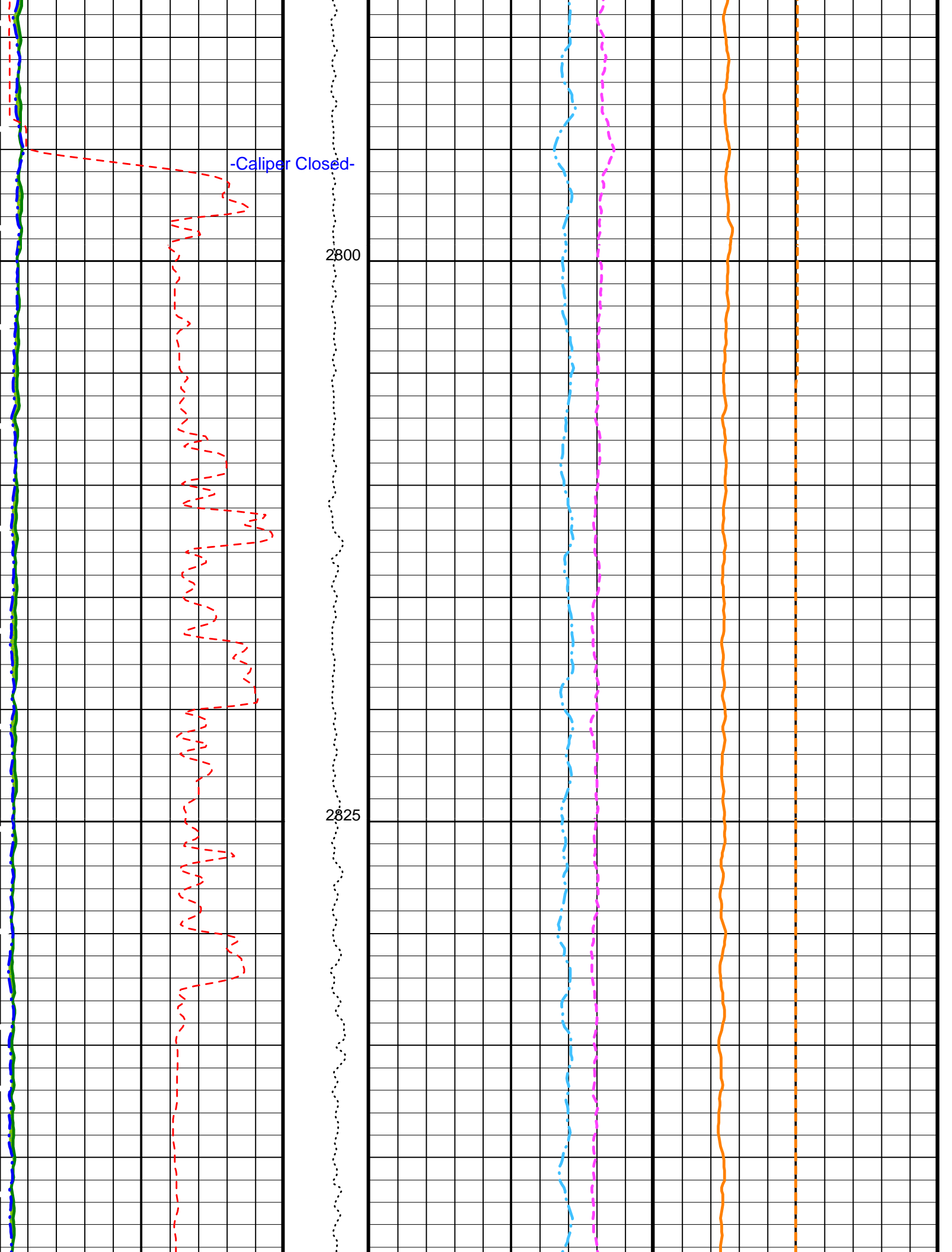


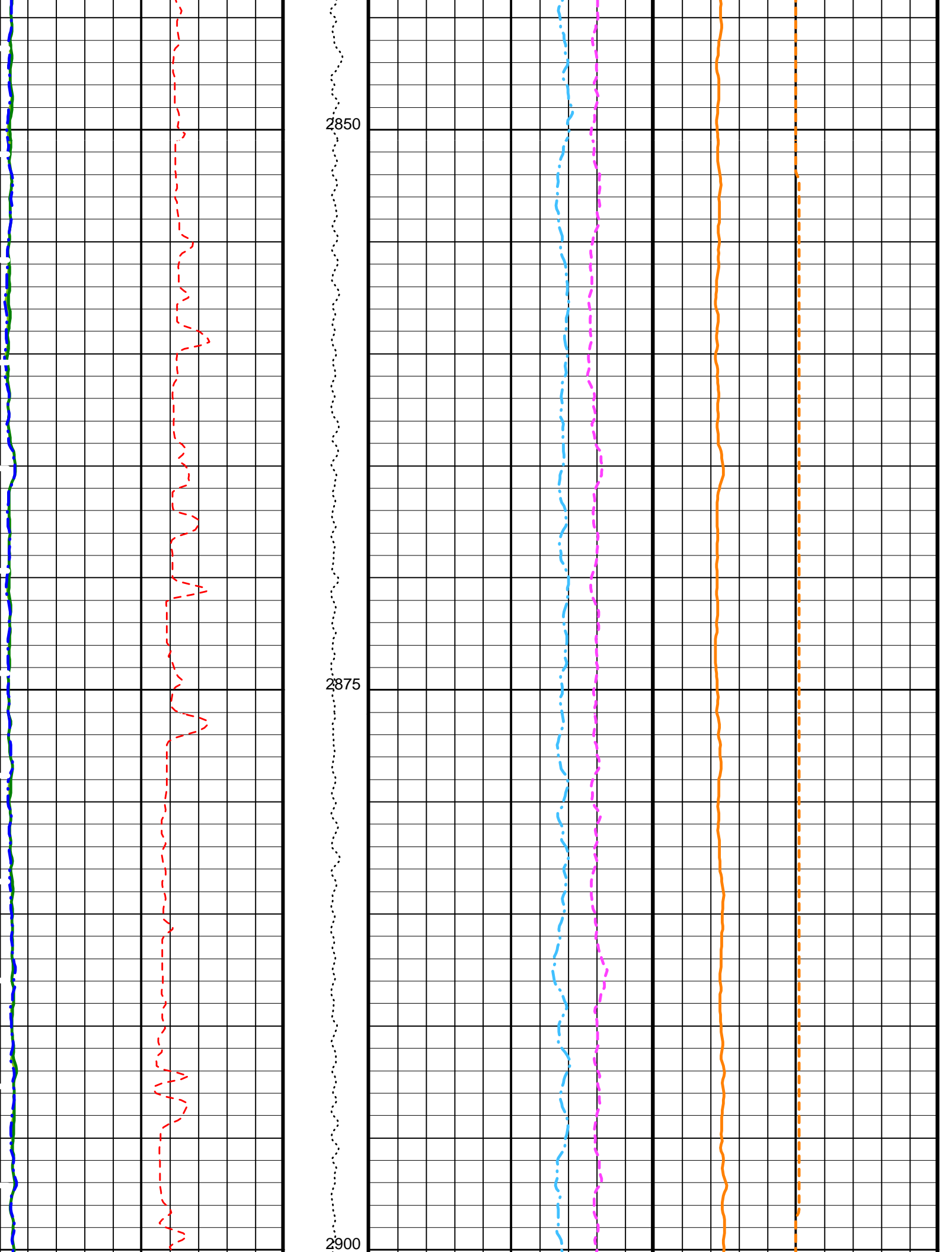


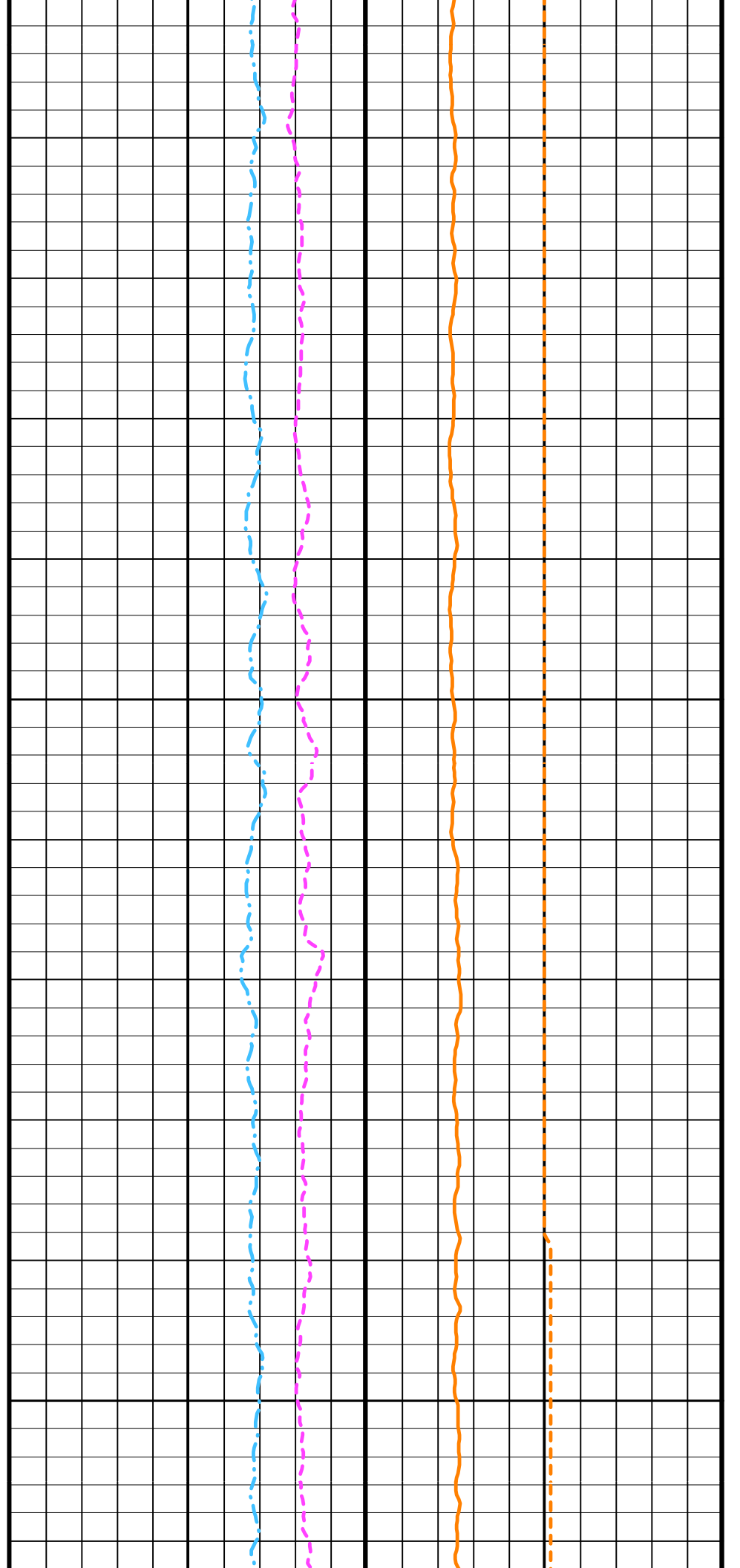
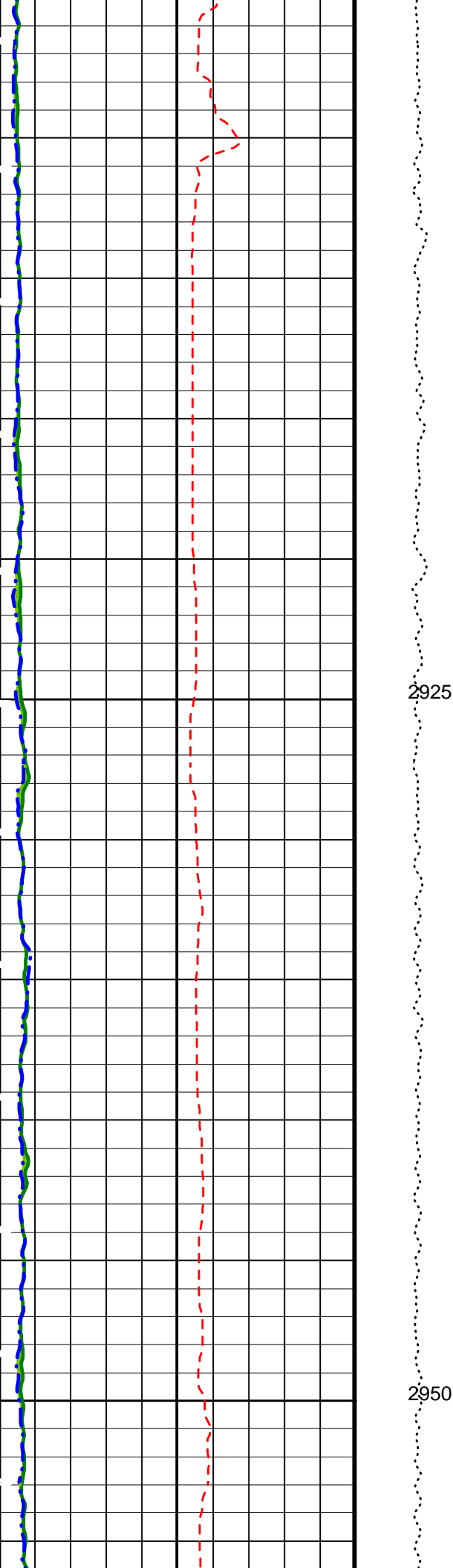
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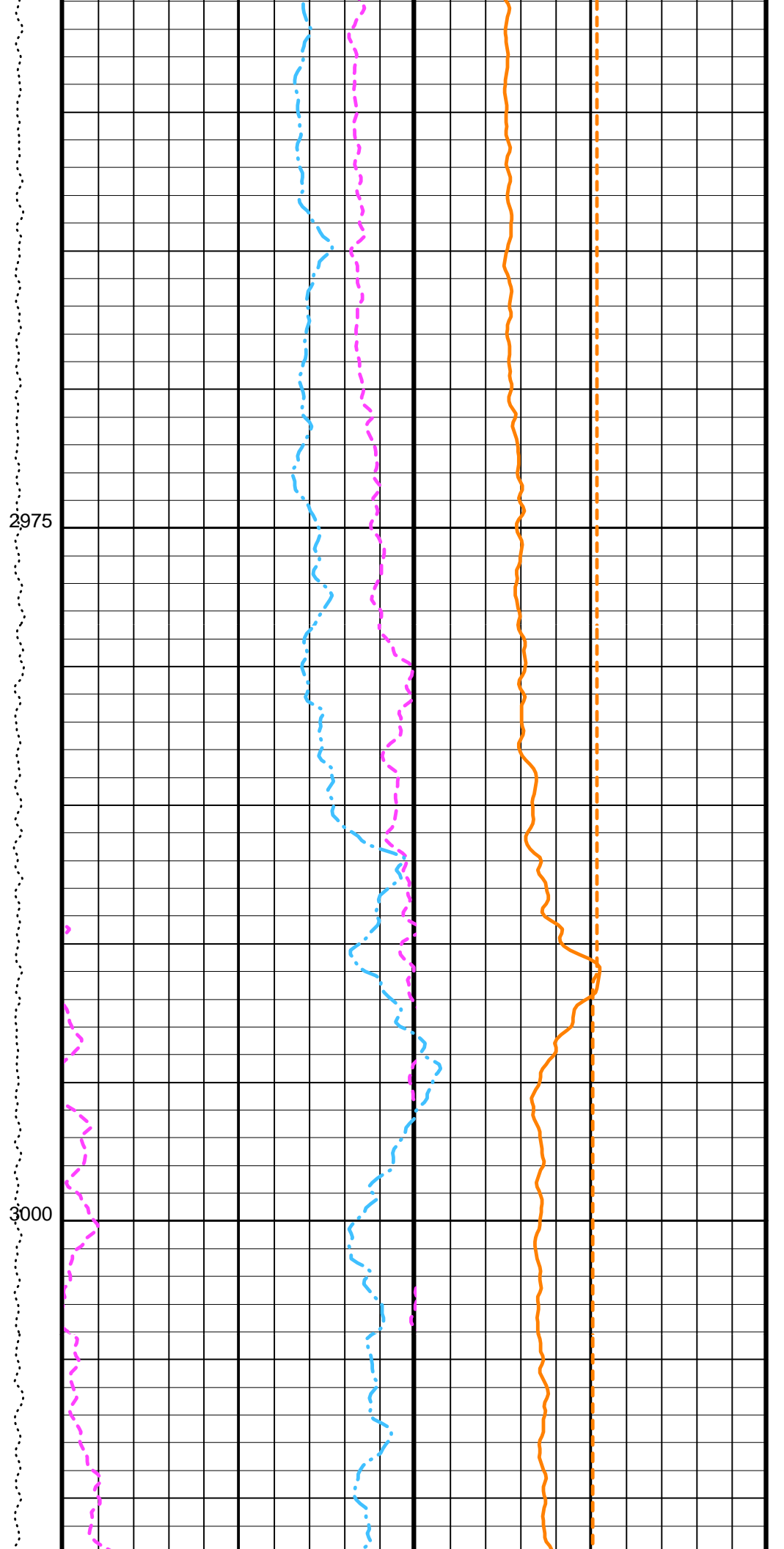
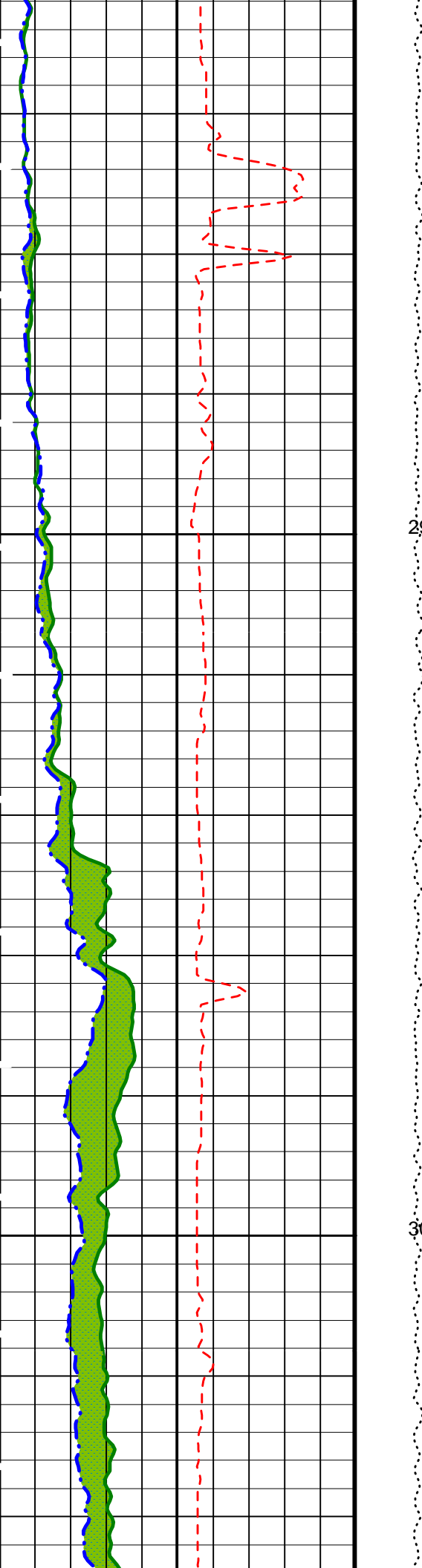
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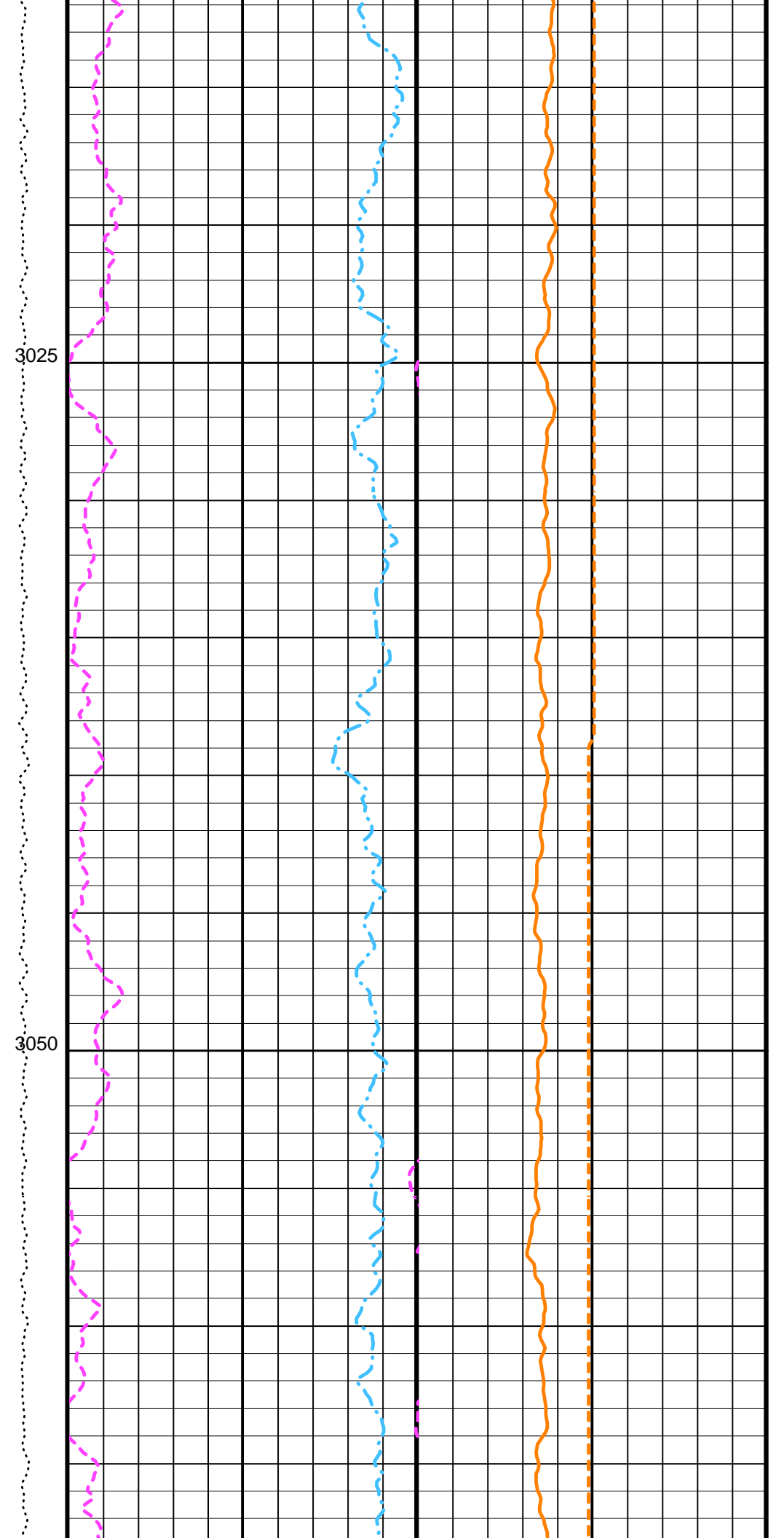
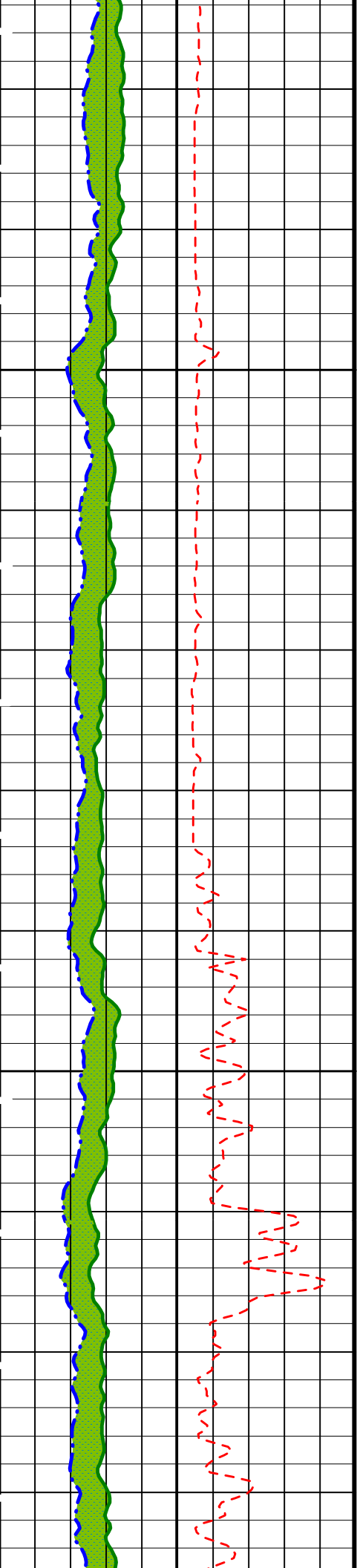
-Drill Pipe-





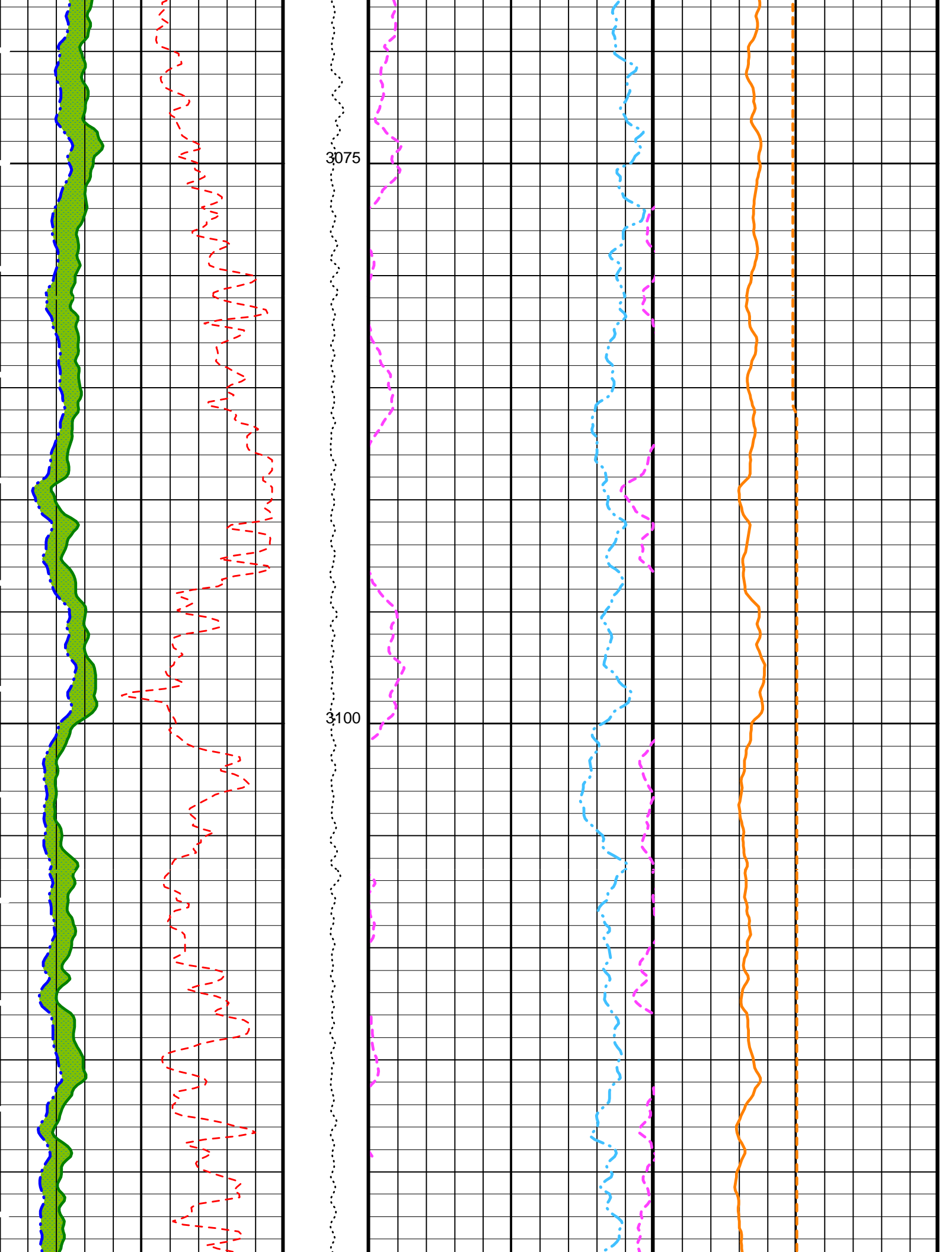


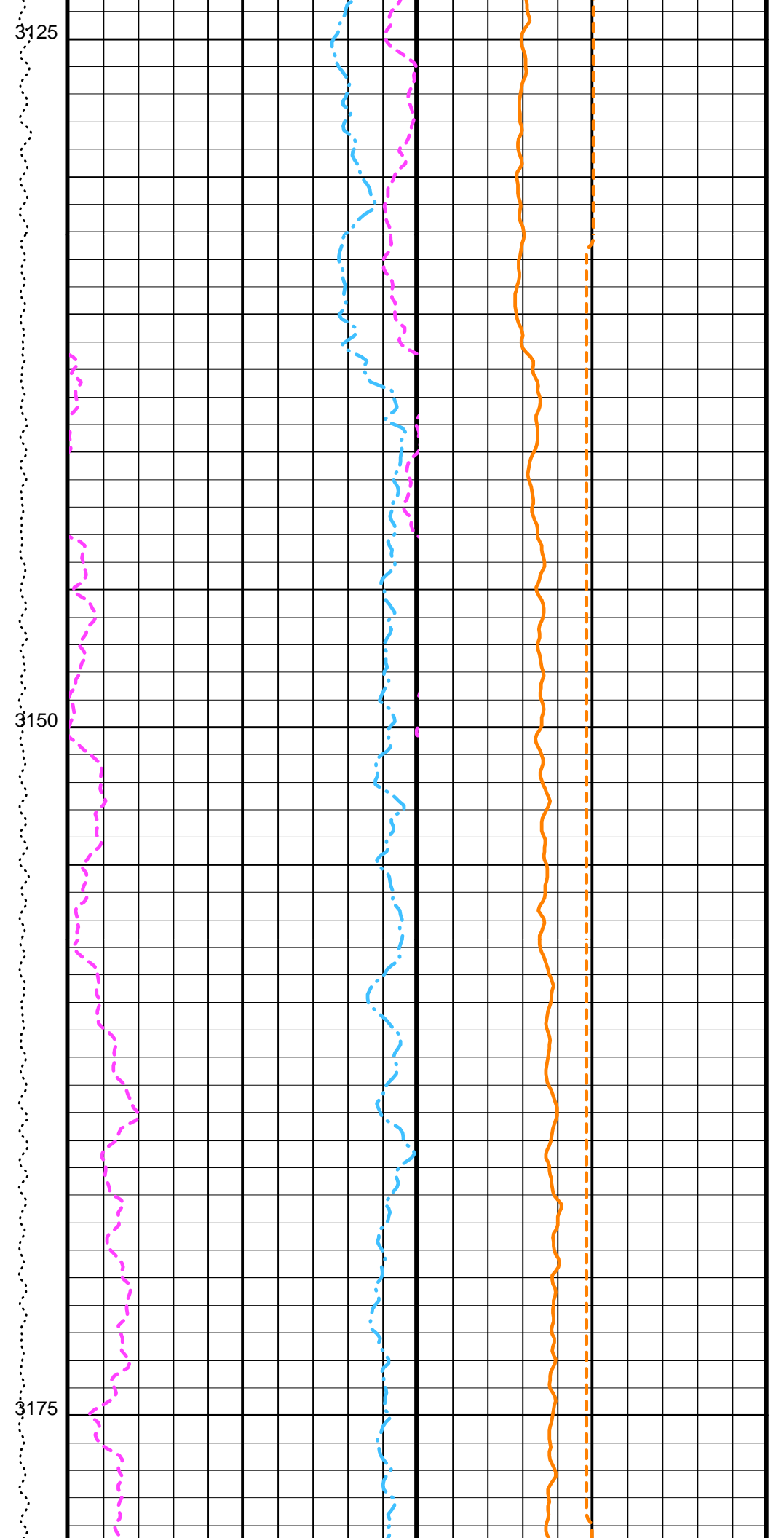
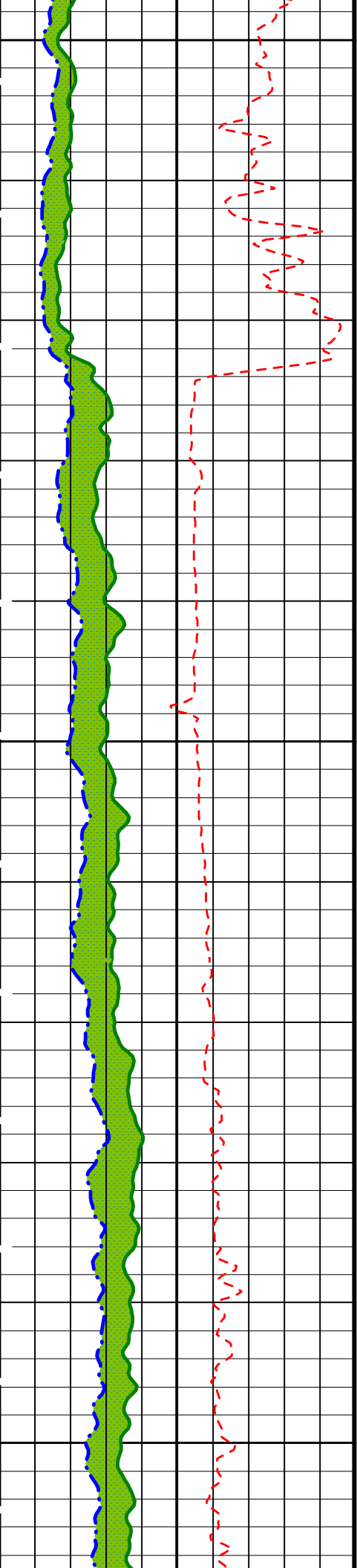


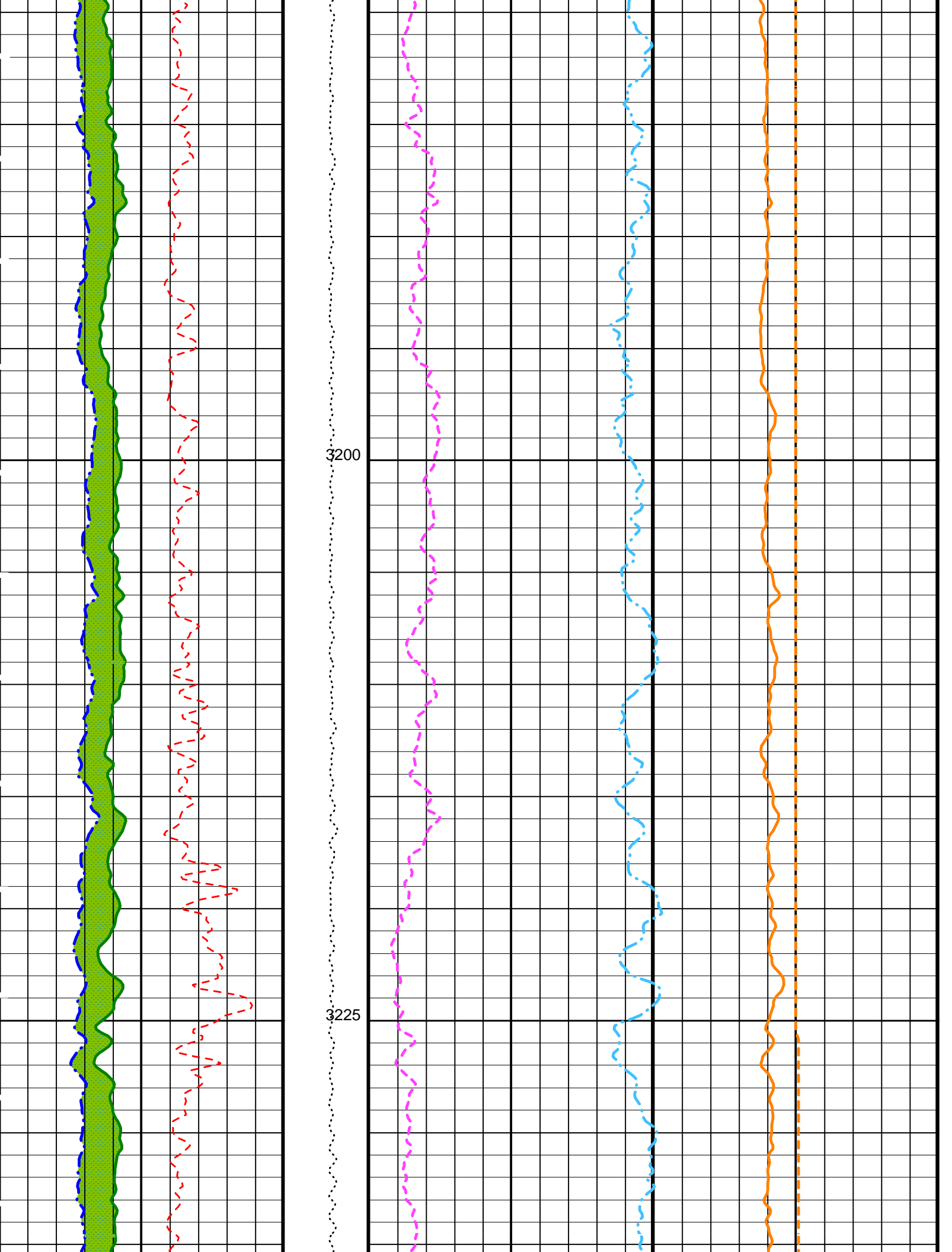


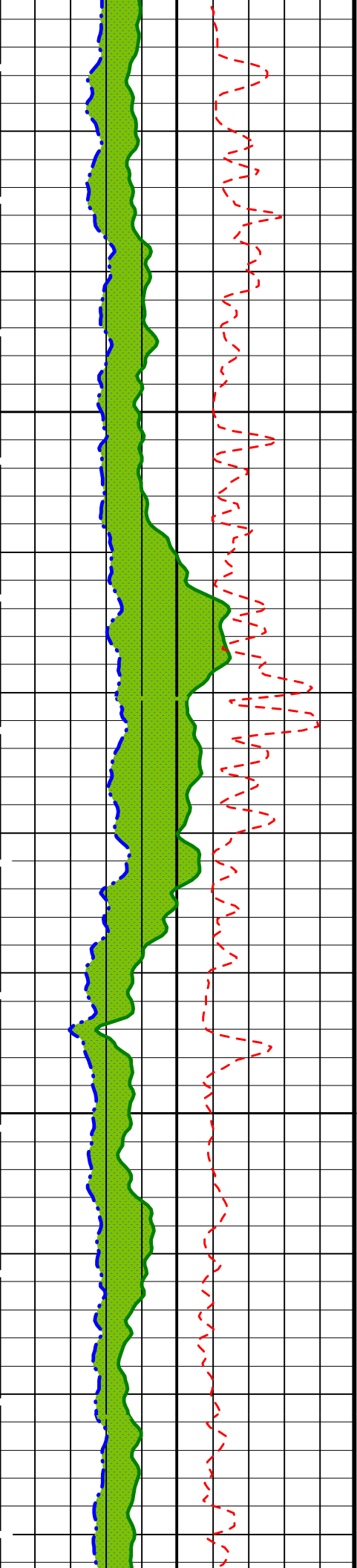
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3050



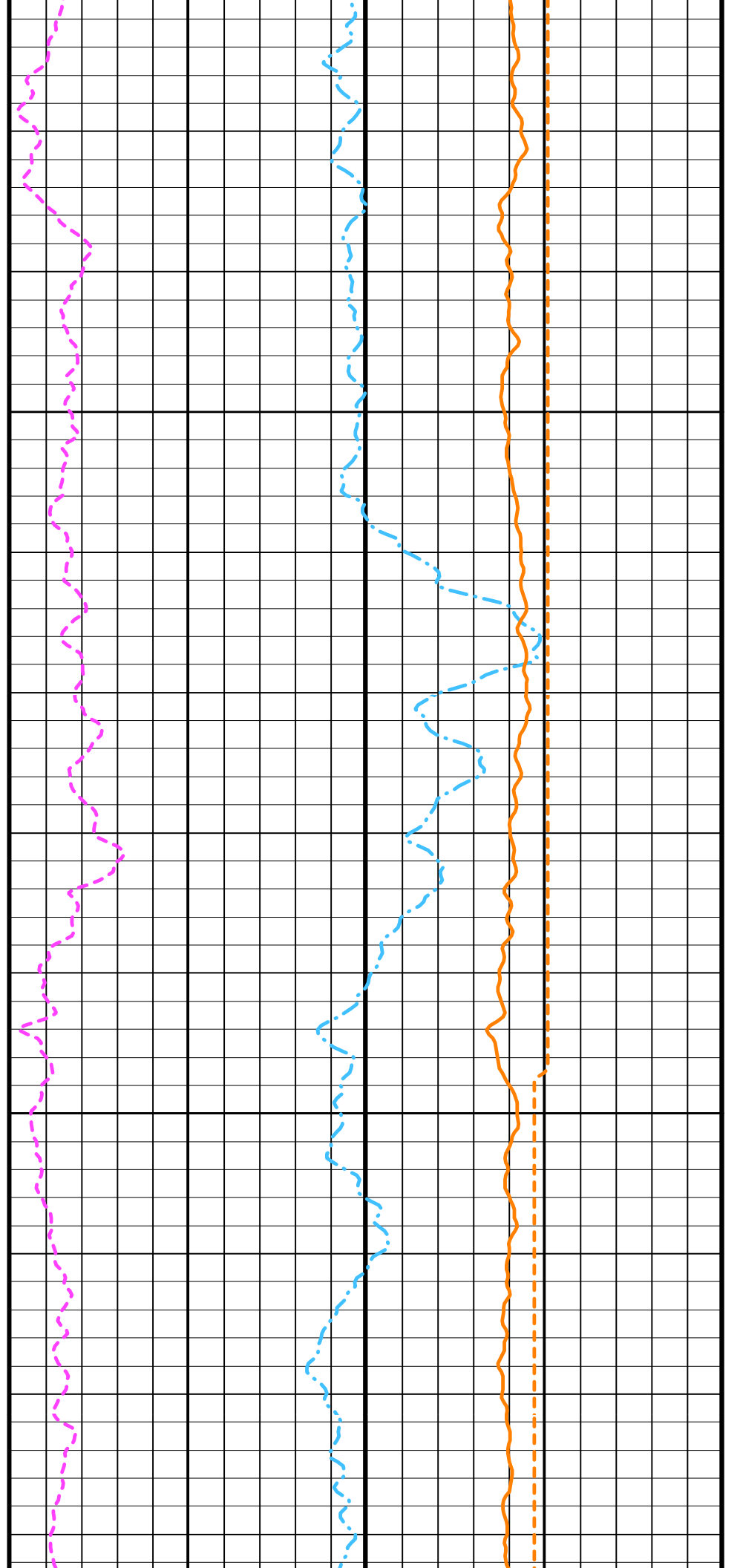


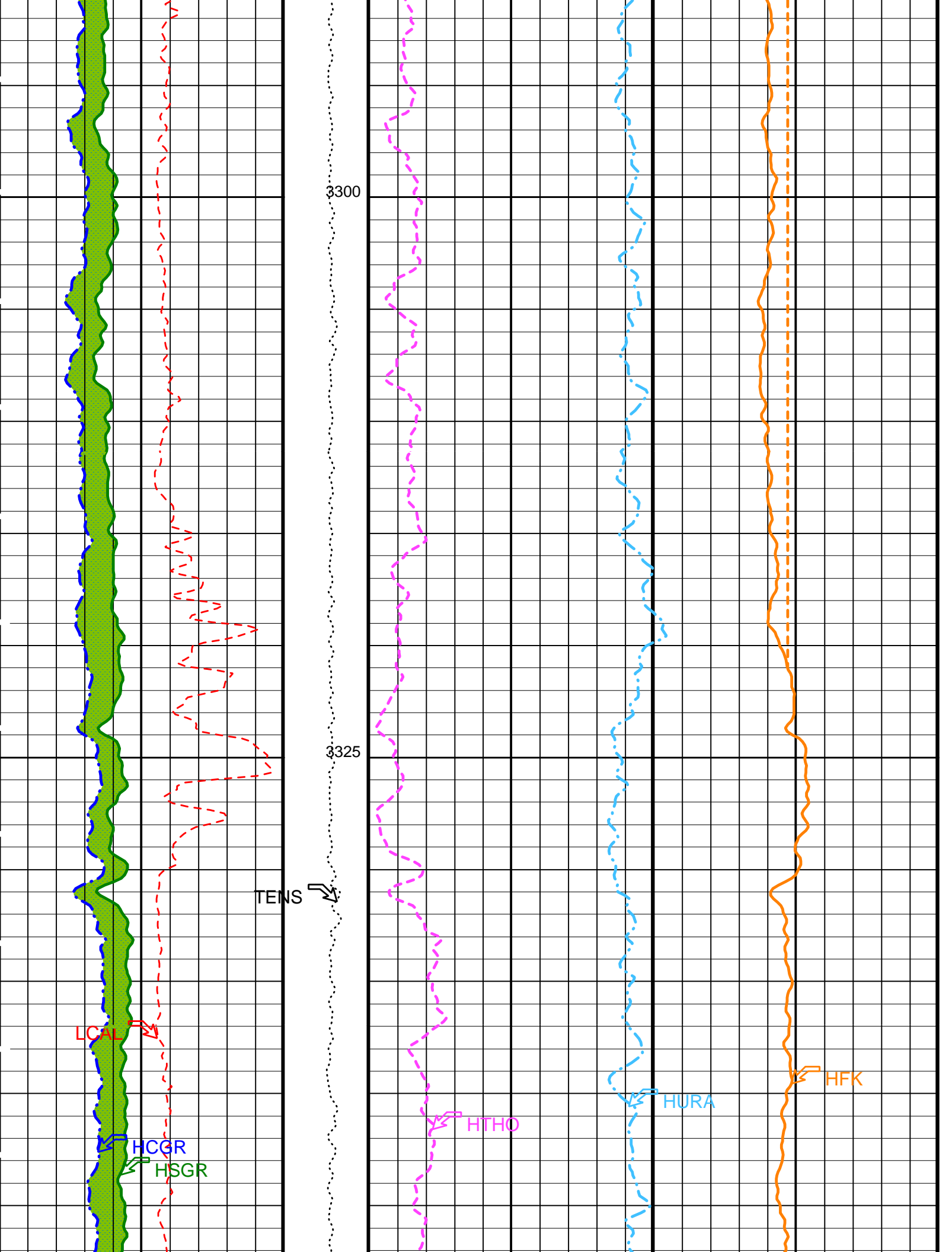


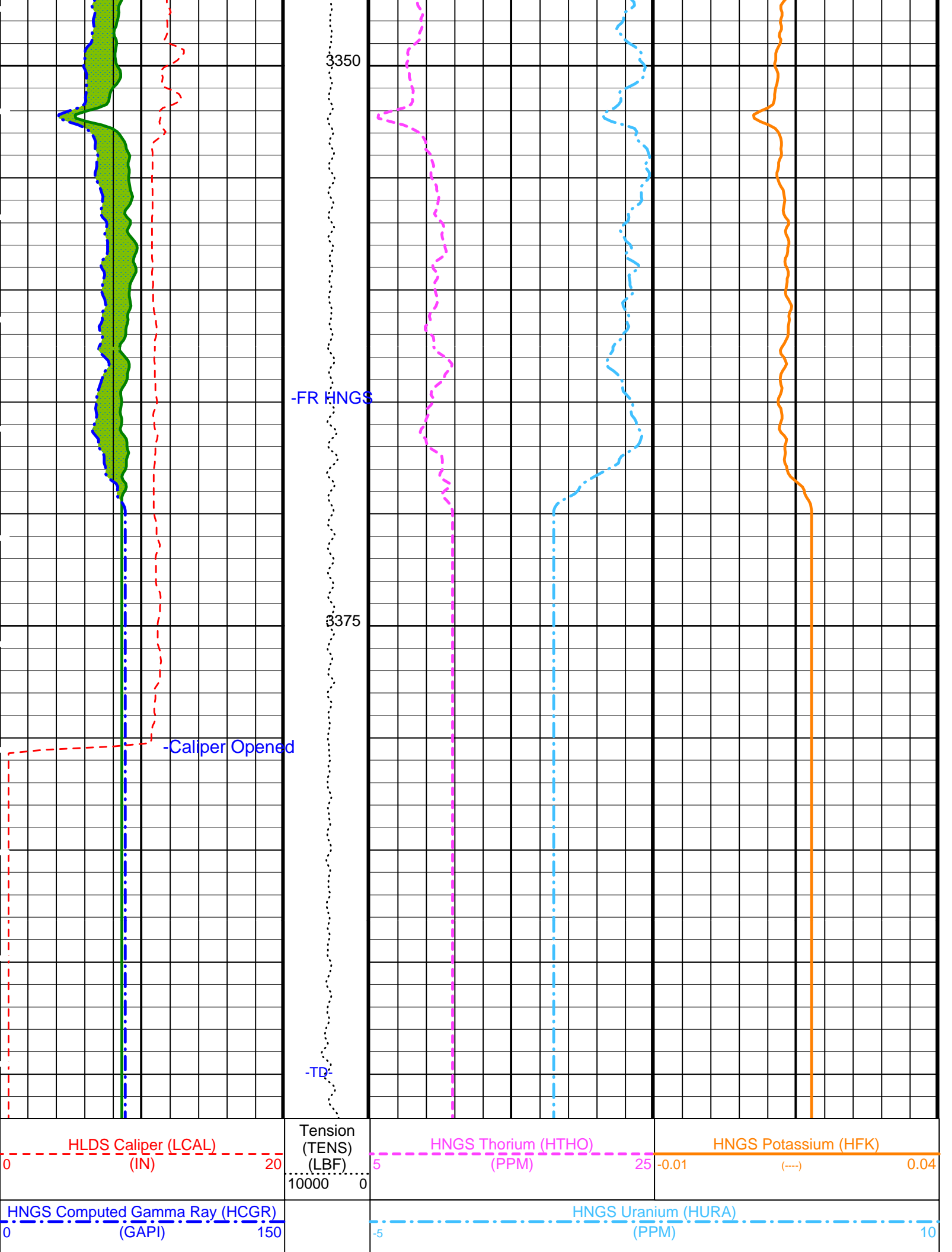


3250

3275







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
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	
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1	
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245	
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17	
BS	Bit Size	9.875	IN
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
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	7.03834	%
D1TC	HNGS Detector 1 Calibration Temperature	59.2921	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.324	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.10236	%
D2TC	HNGS Detector 2 Calibration Temperature	57.3948	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.925	
DBCC	HNGS Barite Constant Correction Flag	NONE	
DFD	Drilling Fluid Density	8.51	LB/G
GCF1_START	HNGS Detector 1 GCF Constant	1	
GCF2_START	HNGS Detector 2 GCF Constant	1	
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	0.00122299	
HALF	HNGS Alpha Filter Length	60	IN
HATIM	HNGS Marquardt Accumulation Time	600	S
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO	
HSVN	HNGS Spectral Standards Version Number	7.06002e-029	
MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	26.8307	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986846	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	27.2589	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.984706	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.000400444	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.0224	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.915815	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 02-May-2000 15:53

OP System Version: 9C1-303
MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Output DLIS Files

DEFAULT	DITE .012	FN:18 PRODUCER	02-May-2000 15:53
DITE_CUST	DITE .012	FN:19 PRODUCER	02-May-2000 15:53

Output DLIS Files

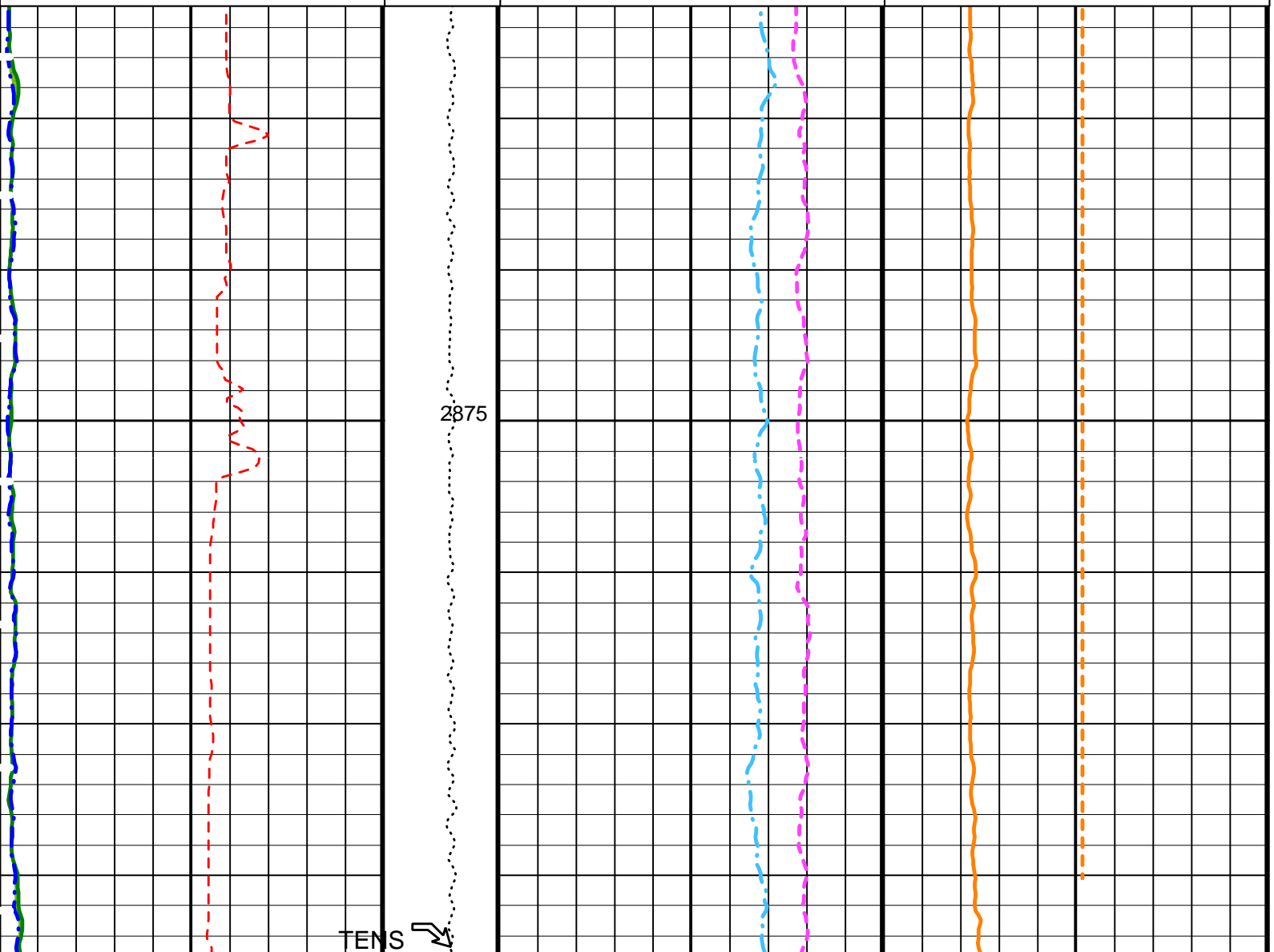
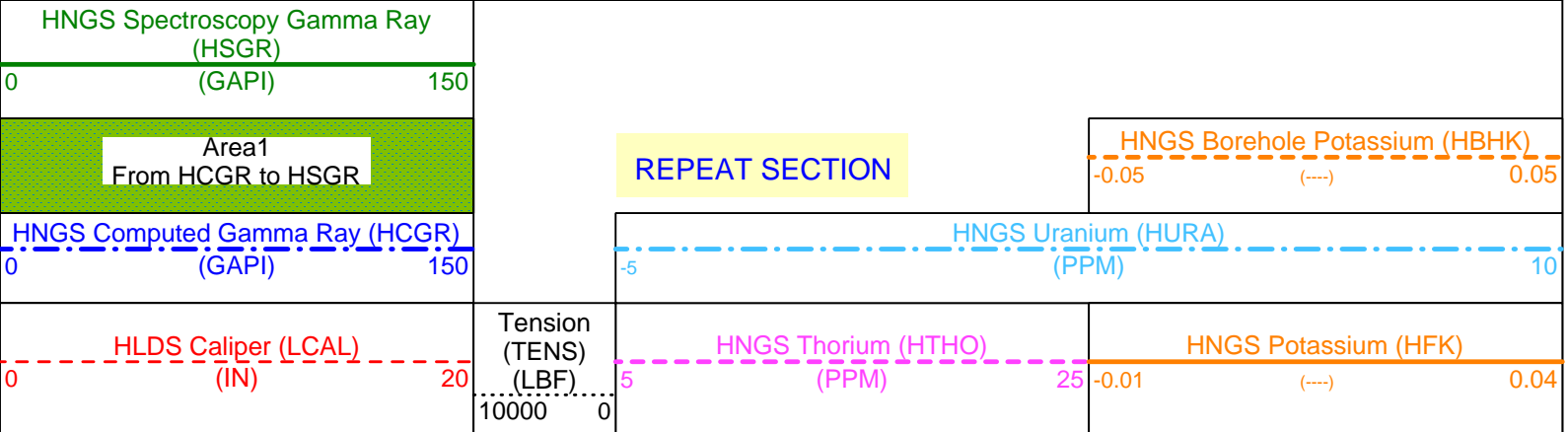
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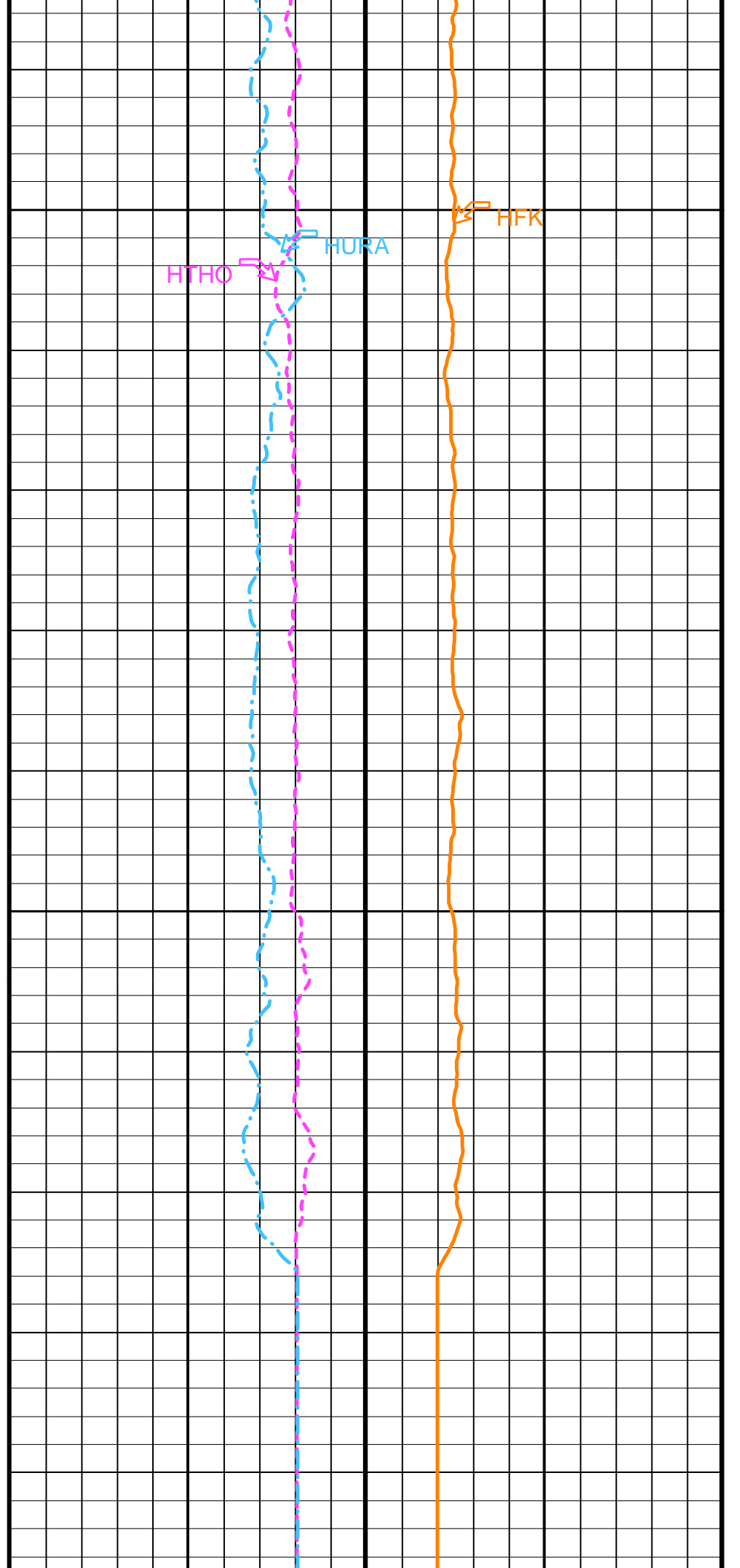
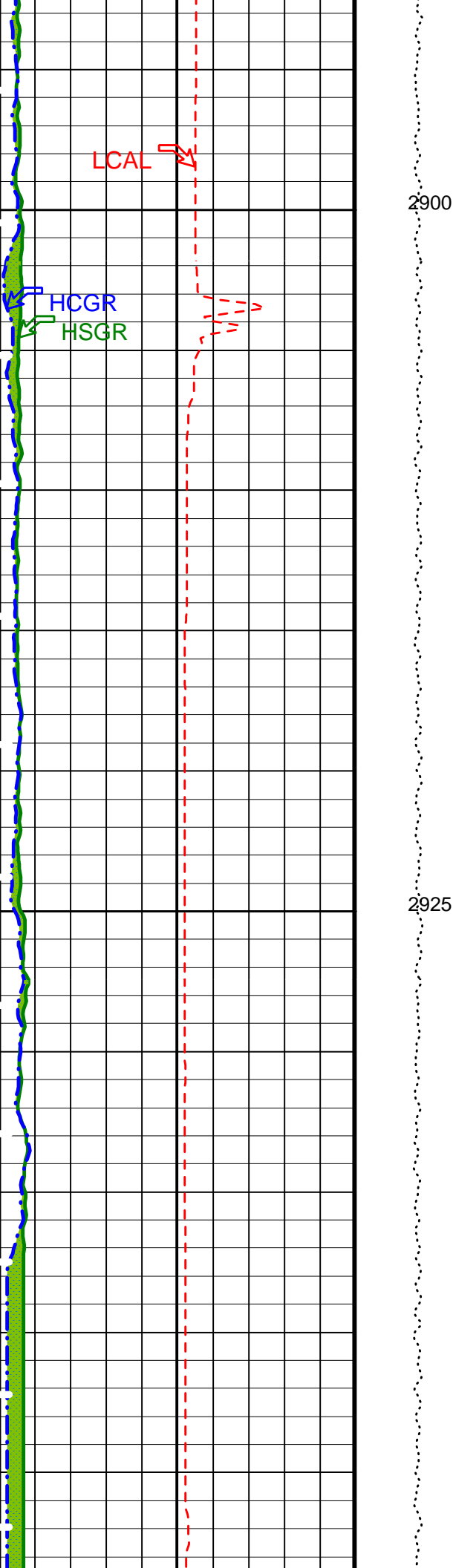
OP System Version: 9C1-303 MCM

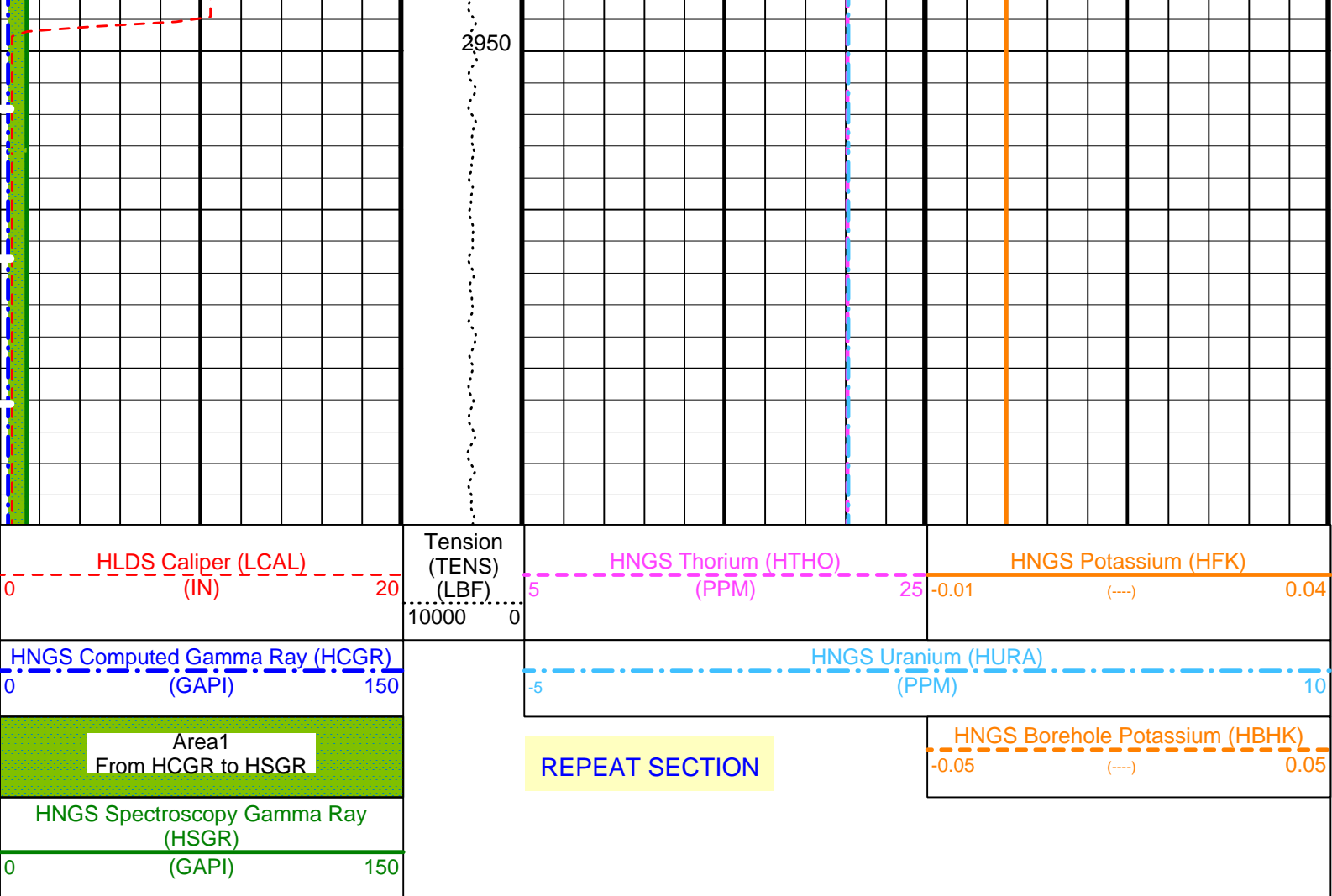
DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

PIP SUMMARY

Time Mark Every 60 S







PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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
BKSF	HNGS Borehole Fluid Excluder Sleeve Algorithm Factor	1
BKSH	HNGS Borehole Fluid Excluder Sleeve Algorithm High Channel	245
BKSL	HNGS Borehole Fluid Excluder Sleeve Algorithm Low Channel	17
BS	Bit Size	9.875
CSD1	Inner Casing Outer Diameter	0
CSD2	Outer Casing Outer Diameter	0
CSW1	Inner Casing Weight	0
CSW2	Outer Casing Weight	0
D1PR	HNGS Detector 1 Calibration Thorium Peak Resolution	7.03834
D1TC	HNGS Detector 1 Calibration Temperature	59.2921
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	210.324
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	7.10236
D2TC	HNGS Detector 2 Calibration Temperature	57.3948
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.925
DBCC	HNGS Barite Constant Correction Flag	NONE
DFD	Drilling Fluid Density	8.51
GCF1_START	HNGS Detector 1 GCF Constant	1
GCF2_START	HNGS Detector 2 GCF Constant	1
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
HATM	HNGS Alpha Filter Length	60
HCRB	HNGS Marquardt Accumulation Time	600
HMWM	HNGS Apply Borehole Potassium Correction	NONE
HNPE	Mud Weighting Material	NATU
HNSL	HNGS Processing Enable	YES
HSLV	HNGS Borehole Fluid Excluder Sleeve Status	NO
HSVN	HNGS Spectral Standards Version Number	7.36453e-031

MARQ_START	HNGS Marquardt Start-up Mode	INTERNAL	
RDF1_START	HNGS Detector 1 RDF Constant	0	
RDF2_START	HNGS Detector 2 RDF Constant	0	
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3	CPS
S1NA	HNGS Detector 1 Calibration Sodium Count Rate	26.8307	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.986846	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	27.2589	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.984706	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 02-May-2000 15:20

OP System Version: 9C1-303 MCM

DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Output DLIS Files

DEFAULT	DITE .011	FN:16 PRODUCER	02-May-2000 15:20
DITE_CUST	DITE .011	FN:17 PRODUCER	02-May-2000 15:20

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 10-MAR-2000 10:06 Before: 17-MAR-2000 18:41 After: 2-MAY-2000 21:22							
SS Total Countrate Bkg	1645	1446	1441	1449	7.680	80.00	CPS
SS HV Measured Bkg	1100	1077	1070	1071	1.491	80.00	V
SS Cs Centroid Bkg	661.0	661.3	661.0	661.5	0.4500	1.500	KEV
SS Cs Resolution Bkg	9.000	8.490	8.564	8.477	-0.08757	1.800	%
LS Total Countrate Bkg	1645	1468	1467	1464	-3.521	80.00	CPS
LS HV Measured Bkg	1100	1195	1190	1189	-1.123	80.00	V
LS Cs Centroid Bkg	661.0	661.3	661.2	661.2	0.05493	1.500	KEV
LS Cs Resolution Bkg	9.000	8.744	8.772	8.785	0.01332	1.800	%
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 17-MAR-2000 19:48							
HLDS Caliper Small Ring	8.000	N/A	9.714	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	13.89	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: Calibration out of date 2-FEB-2000 21:50 Before: 2-MAY-2000 15:25 After: 2-MAY-2000 19:56							
Near Det Bkg Cntrate	30.00	32.07	55.87	32.30	-23.57	N/A	CPS
Far Det Bkg Cntrate	30.00	32.19	35.23	33.46	-1.769	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.58	37.52	29.53	-7.992	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.06	39.47	29.76	-9.711	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	33.94	38.87	32.33	-6.539	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Detector Plateau Settings							
Master: Calibration out of date 2-FEB-2000 20:07							
Near Detector Plateau Setting	1650	1762	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2069	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1987	N/A	N/A	N/A	N/A	V
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: Calibration out of date 2-FEB-2000 21:50							
Near/Far Calibration Ratio	0.9250	0.9031	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.068	N/A	N/A	N/A	N/A	

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 17-APR-2000 13:39 Before: 27-APR-2000 19:51 After: 2-MAY-2000 21:22							
Na 511 Peak Loc	40.00	40.54	40.61	40.50	-0.1129	1.000	
Na 511 Peak Res	15.50	16.04	14.56	15.67	1.115	2.000	%
High Voltage	1150	1110	1109	1111	2.819	30.00	V
Na 1785 Peak Loc	142.6	146.3	145.4	144.9	-0.4233	7.000	
Na 1785 Peak Res	2.500	2.600	2.617	2.601	-0.017	2.000	%

Na 1785 Peak Res	8.500	8.987	9.047	8.984	-0.06378	2.000	%
Temperature	15.50	15.16	18.69	17.76	-0.9264	N/A	DEGC
Na Count Rate	45.00	26.83	26.57	26.24	-0.3233	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 17-APR-2000 13:39 Before: 27-APR-2000 19:51 After: 2-MAY-2000 21:22

Na 511 Peak Loc	40.00	40.57	40.68	40.66	-0.02054	1.000	
Na 511 Peak Res	15.50	13.85	14.11	14.49	0.3854	2.000	%
High Voltage	1150	1196	1195	1198	2.932	30.00	V
Na 1785 Peak Loc	142.6	144.4	145.4	144.7	-0.7429	7.000	
Na 1785 Peak Res	8.500	8.601	7.729	8.203	0.4745	2.000	%
Temperature	15.50	14.11	17.59	17.86	0.2786	N/A	DEGC
Na Count Rate	45.00	27.26	27.00	26.51	-0.4854	8.000	CPS

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

Master: 17-APR-2000 13:39 Before: 27-APR-2000 19:51 After: 2-MAY-2000 21:22

Coincidence Count Rate Ratio	1.000	0.9852	0.9847	0.9914	0.006714	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration

Master: 17-APR-2000 13:34

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	210.3	--	--	--	--	
Th Peak Res	7.000	7.038	--	--	--	--	%
Background Count Rate	142.5	17.08	--	--	--	--	CPS
Gain Ratio	1.000	0.9868	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration

Master: 17-APR-2000 13:34

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.9	--	--	--	--	
Th Peak Res	7.000	7.102	--	--	--	--	%
Background Count Rate	142.5	17.73	--	--	--	--	CPS
Gain Ratio	1.000	0.9847	--	--	--	--	

Dual Induction - E / Equipment Identification

Primary Equipment:

Dual Induction Sonde	DIS - HB	355
Dual Induction Cartridge	DIC - EB	352

Auxiliary Equipment:

Mass Isolated Housing	MIH - ZA	342
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Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:

Hostile Litho Density Sonde	HLDS - D	35
Hostile Litho Density High Voltage	HLDV - D	35
Gamma Source Radioactive	GSR - Z	1846

Auxiliary Equipment:

Hostile Litho Density Pad	HLDP - C	12
Hostile Litho Density High Voltage Housi	HEH - H	35

Nuclear Porosity Lithology Cartridge - B / Equipment Identification

Primary Equipment:

NPLC Cartridge	NPLC - B	79
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Auxiliary Equipment:

NPLC Housing	NPH - B	82
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Accelerator-Porosity Tool / Equipment Identification

Primary Equipment:

Accelerator-Porosity Sonde	APS - BA	22
APS Minitron	MNTR - F	4185

Auxiliary Equipment:

Accelerator Porosity Housing	APH - A	22
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Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment: HNGS Sonde	HNGS - BA	27
Auxiliary Equipment: HNGS Sonde Housing	HNSH - BA	27
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		40.54	Master		16.04	Master		1110
Before		40.61	Before		14.56	Before		1109
After		40.50	After		15.67	After		1111
	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		146.3	Master		8.987	Master		15.16
Before		145.4	Before		9.047	Before		18.69
After		144.9	After		8.984	After		17.76
	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		26.83						
Before		26.57						
After		26.24						
	15.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 17-APR-2000 13:39			Before: 27-APR-2000 19:51			After: 2-MAY-2000 21:22		





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		40.57	Master		13.85	Master		1196
Before		40.68	Before		14.11	Before		1195
After		40.66	After		14.49	After		1198
	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		144.4	Master		8.601	Master		14.11
Before		145.4	Before		7.729	Before		17.59
After		144.7	After		8.203	After		17.86
	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		27.26						
Before		27.00						
After		26.51						
	15.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 17-APR-2000 13:39			Before: 27-APR-2000 19:51			After: 2-MAY-2000 21:22		

Ratio Of Detector 1 To Detector 2

Phase	Coincidence Count Rate Ratio	Value
Master		0.9852
Before		0.9847
After		0.9914
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	
Master: 17-APR-2000 13:39		
Before: 27-APR-2000 19:51		
After: 2-MAY-2000 21:22		

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		210.3	Master		7.038
	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	EXCEEDS LIMIT	17.08	Master		0.9868			
	20.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)				
Master: 17-APR-2000 13:34								

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		209.9	Master		7.102
	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	EXCEEDS LIMIT	17.73	Master		0.9847			
	20.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)				
Master: 17-APR-2000 13:34								

COMPANY:	Lamont Doherty	BOTTOM LOG INTERVAL	3365 m
WELL:	ODP Leg 189, Site 1172D (ETP-2A)	SCHLUMBERGER DEPTH	3395 m
FIELD:	East Tasmania	DEPTH DRILLER	3399.85 m
COUNTY:	Offshore	KELLY BUSHING	11.2 m
STATE:	Pacific Ocean	DRILL FLOOR	10.9 m
		GROUND LEVEL	2621.7 m



Natural Gamma Spectrometry Log