

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: HLDS/APS/HNGS OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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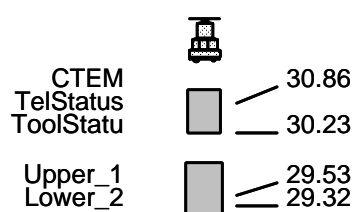
REMARKS: RUN NUMBER 1 Hole cored with APC/XCB. Sea Floor at 2159 mbrf but could not be verified on log response. Log presented in meters below rig floor (mbrf). Lamont Temperature Tool, (TAP) , run on DITE/HLDS/APS/HNGS. Toolstring- DITE/HLDS/APS/HGNS. Wireline Heave Compensator was used on all descents. Wireline Heave compensator was off between: 3093-3075, 3040-3009, 2999-2972 mbrf due to high heave and or compensator system problems on the main pass. Sepiolite mud was used to displace the hole. Drillers TD-3117.8 mbrf. Loggers TD-3118 mbrf. Drill Pipe Driller - 2310 mbrf. Logger Drill Pipe - 2310 mbrf. The caliper was closed early to prevent problems while entering pipe. Depth offsets from the repeat to the main are due to the compensator being off. HNGS calibration tolerances are tight and do not affect the log response.	REMARKS: RUN NUMBER 2
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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 LEH-QT	32.03
DTC-H ECH-KC 8253	31.14
HNGS-BA HNGS-BA 27	30.23



HNSH-BA 27

ILE-D
ILE-D 25

27.73

APS-BA
APS-BA 22
APH-AC 22
MNTR-F 4185

Status
Minitron
Near TD
Near Arr
Near
Far Arr
Far
Far TD

25.29

22.85
22.77
22.64
22.54

NPLC-B
NPLC-B 82
NPH-B 82

Status

20.12

21.35

HLDS
GSR-Z 1846
HLDV-D 35
HLDS-D 35
HEH-H 35
HLDP-C 12

Caliper
SS LS Status

14.85

18.90

DTA-A
ECH-KE 8261

14.08

DIT-E RED
DIC-EB 171
MIH-ZA 174
DIS-HB 200

12.87

SP
Deep Ind
Aux Meas SFL
Med Ind

6.49
6.24
5.32
5.17

Status

3.34

AH-TAP
AH-TAP

3.34

DF
Tension HV

0.00

TOOL ZERO

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

Output DLIS Files

DEFAULT	DITE .008	FN:11 PRODUCER	21-Apr-2000 03:08	3120.4 M	2124.6 M
DITE_CUST	DITE .008	FN:12 PRODUCER	21-Apr-2000 03:08	3120.4 M	2124.6 M

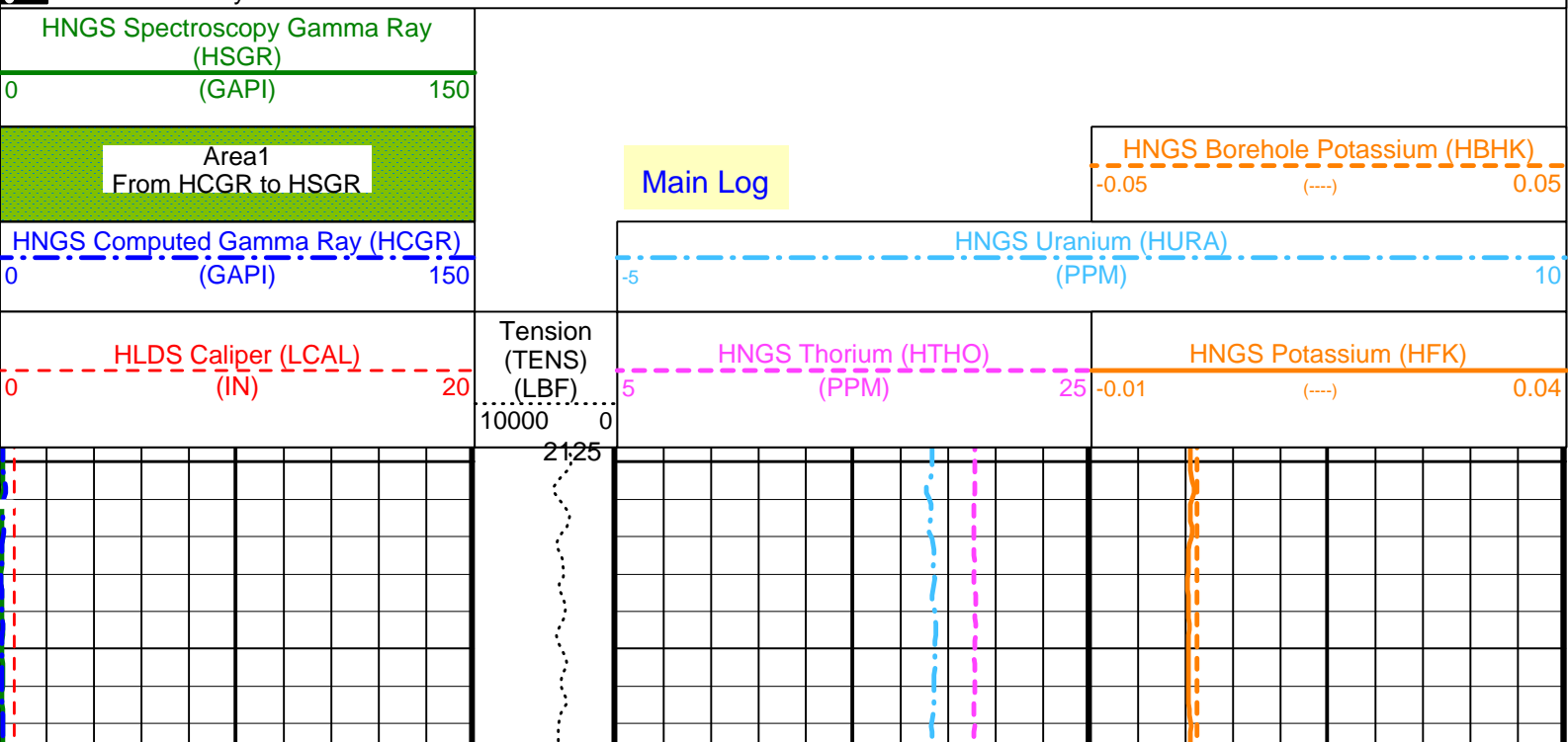
OP System Version: 9C1-303

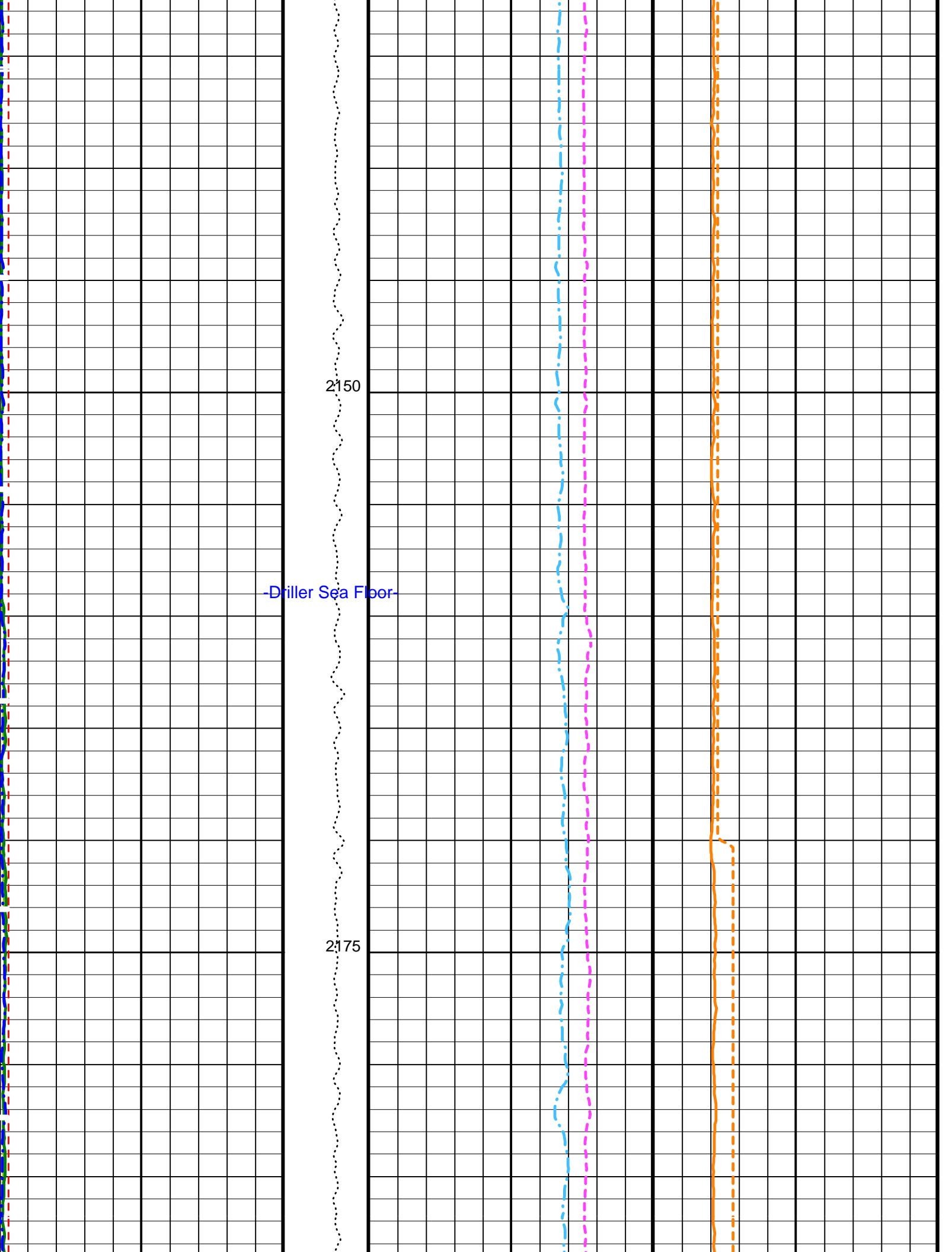
MCM

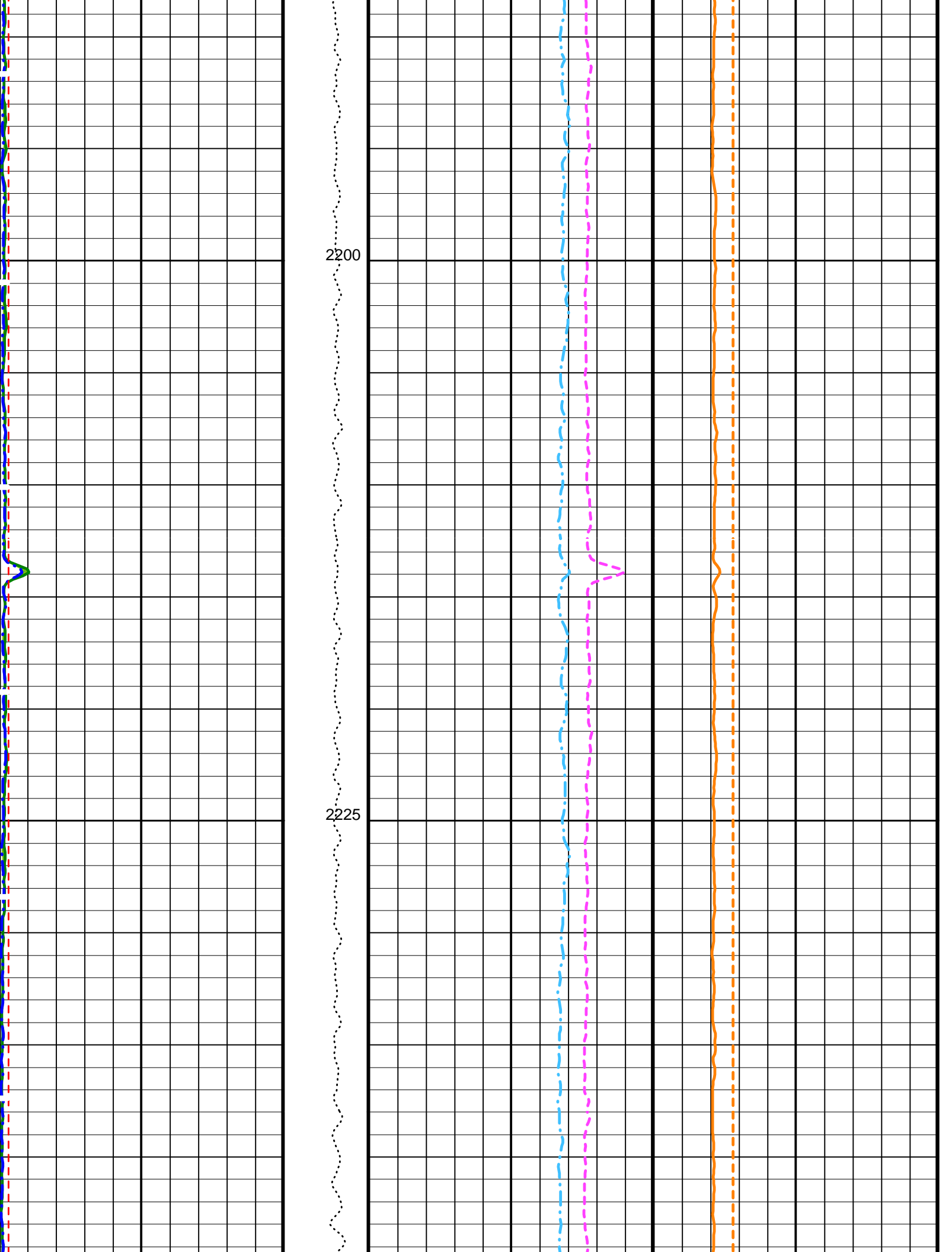
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HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

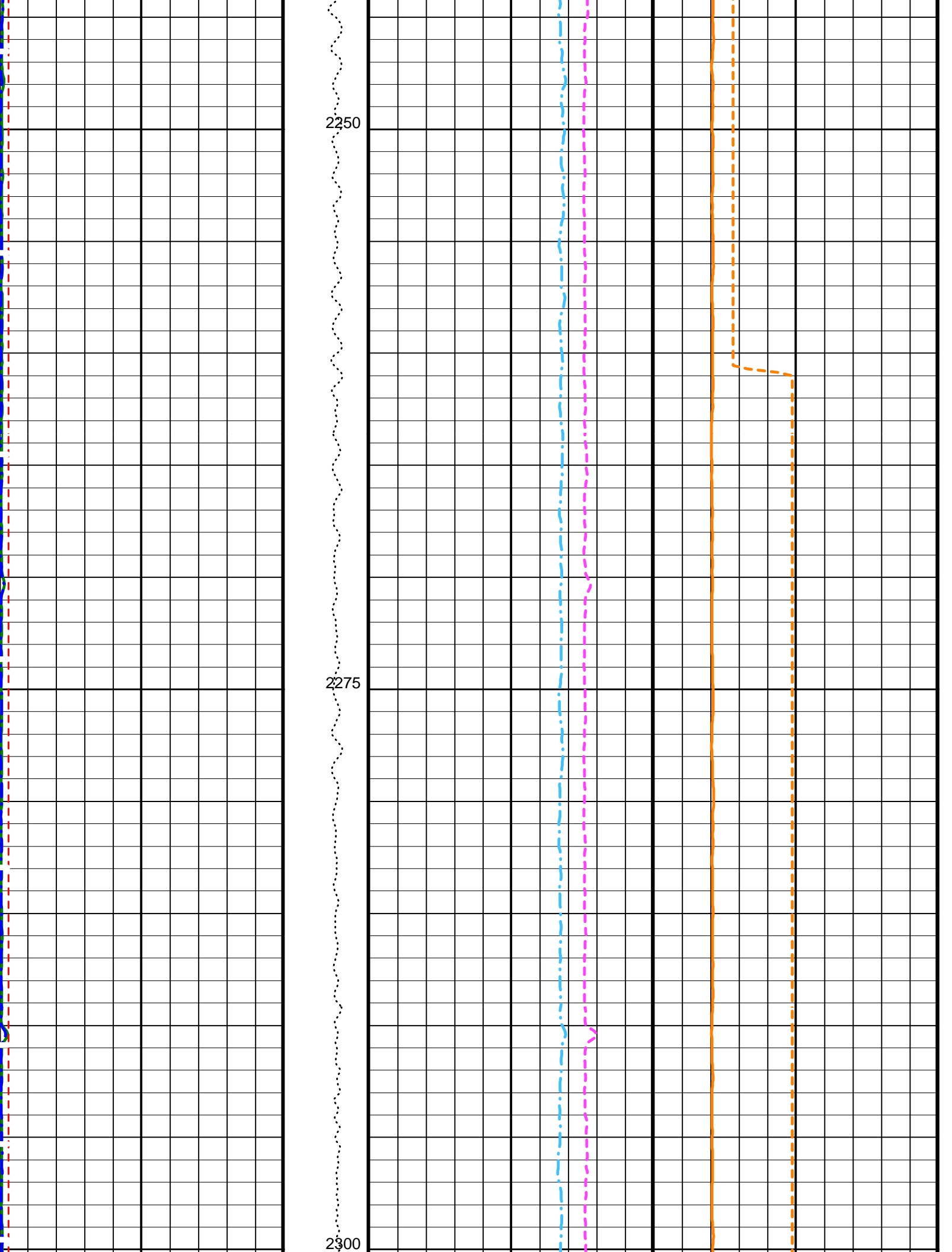
PIP SUMMARY

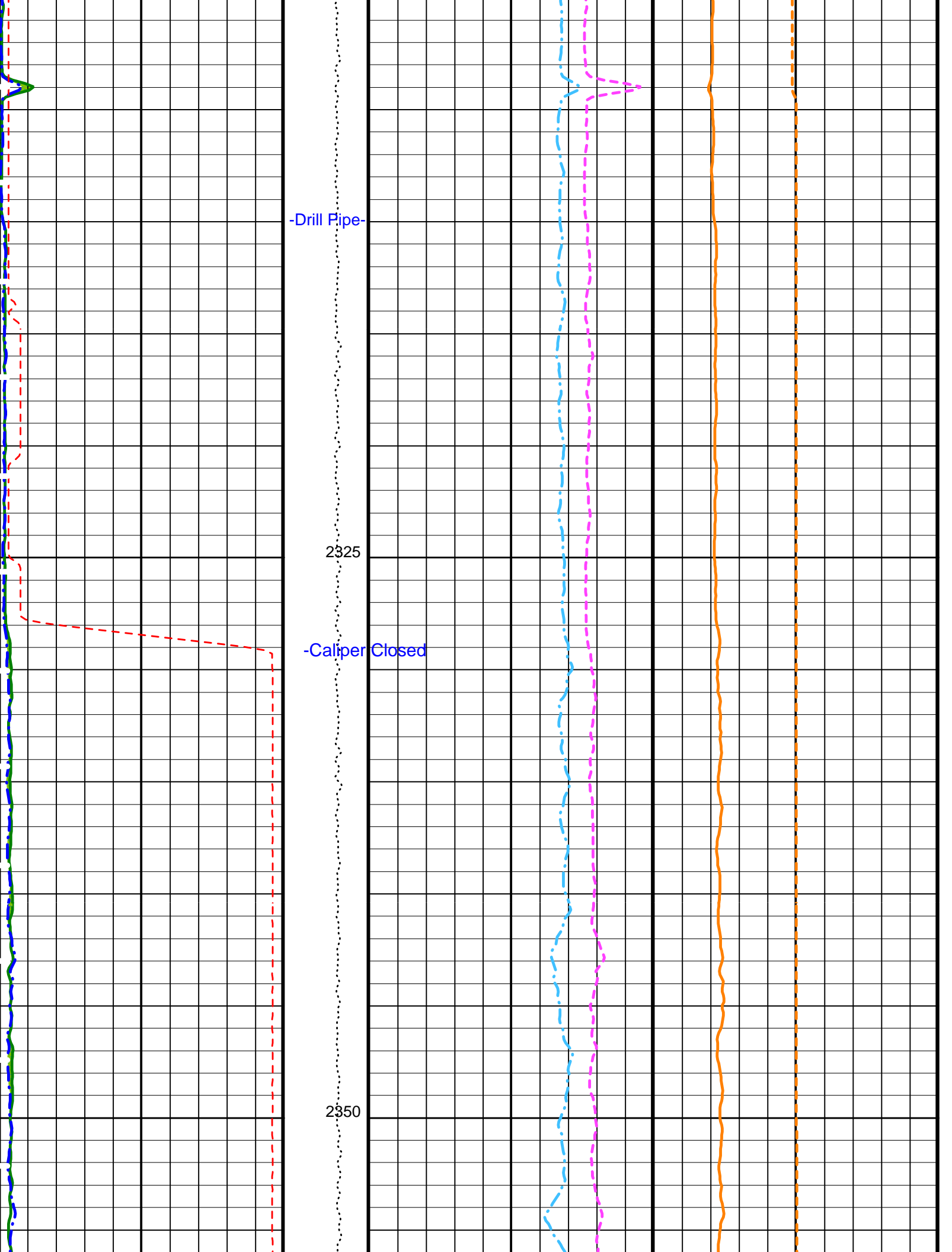
Time Mark Every 60 S

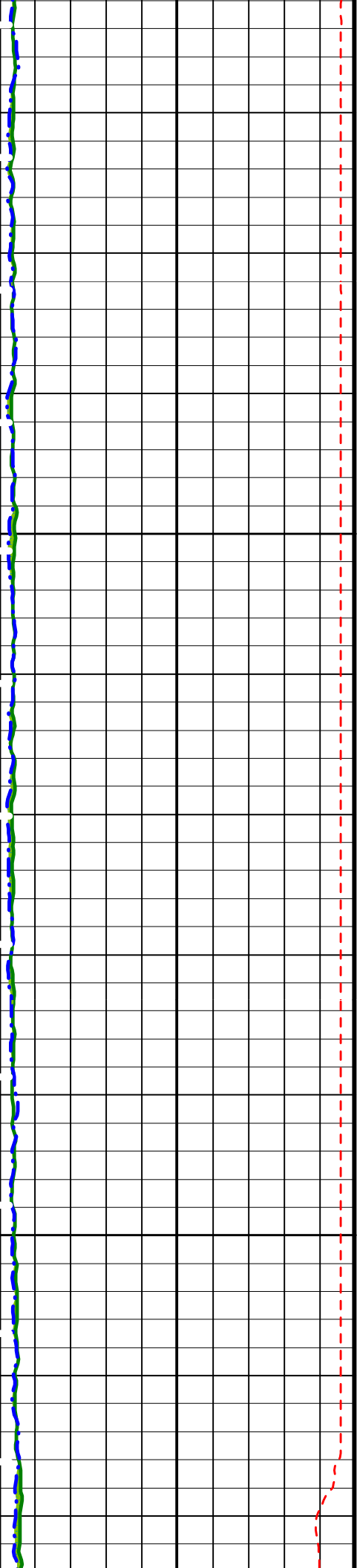






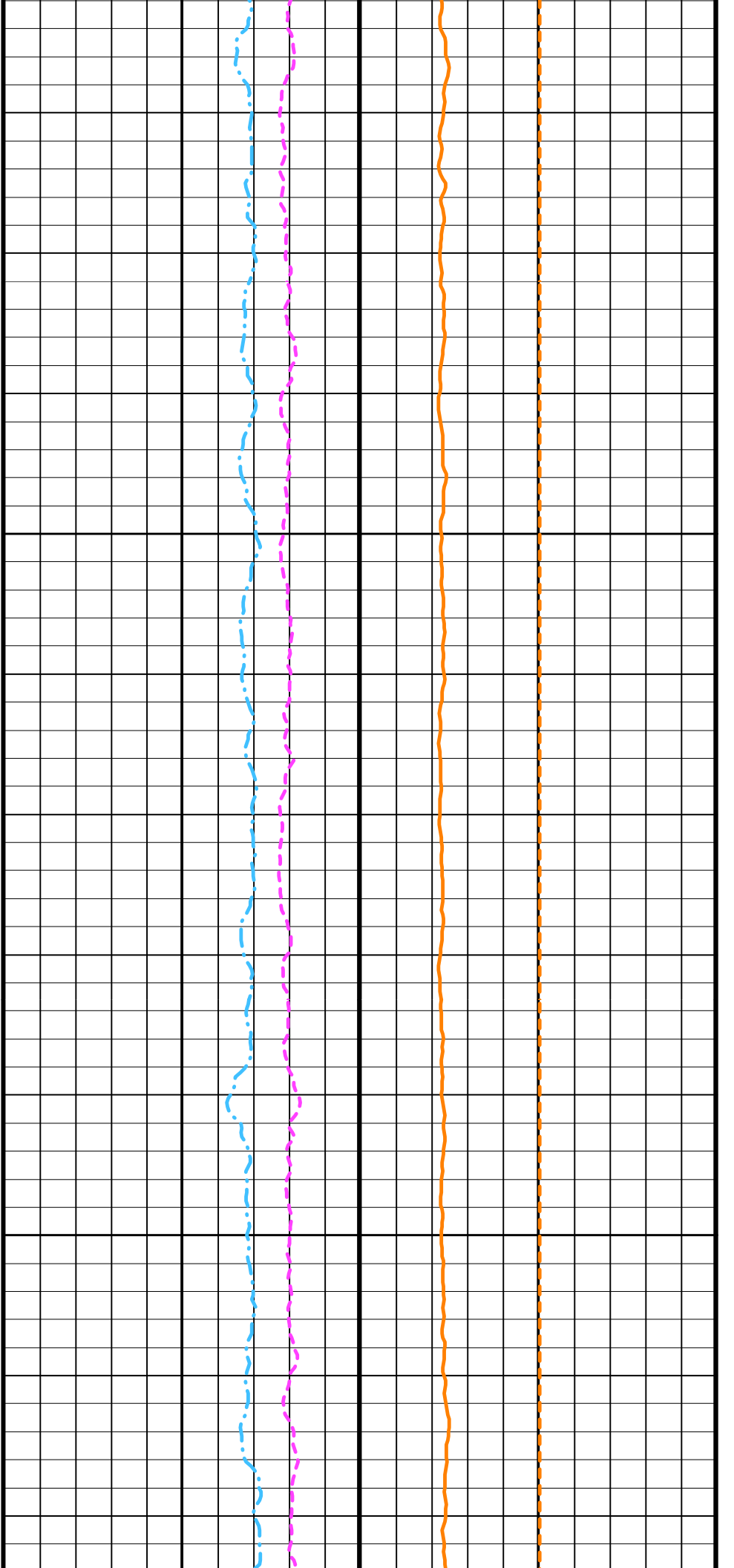


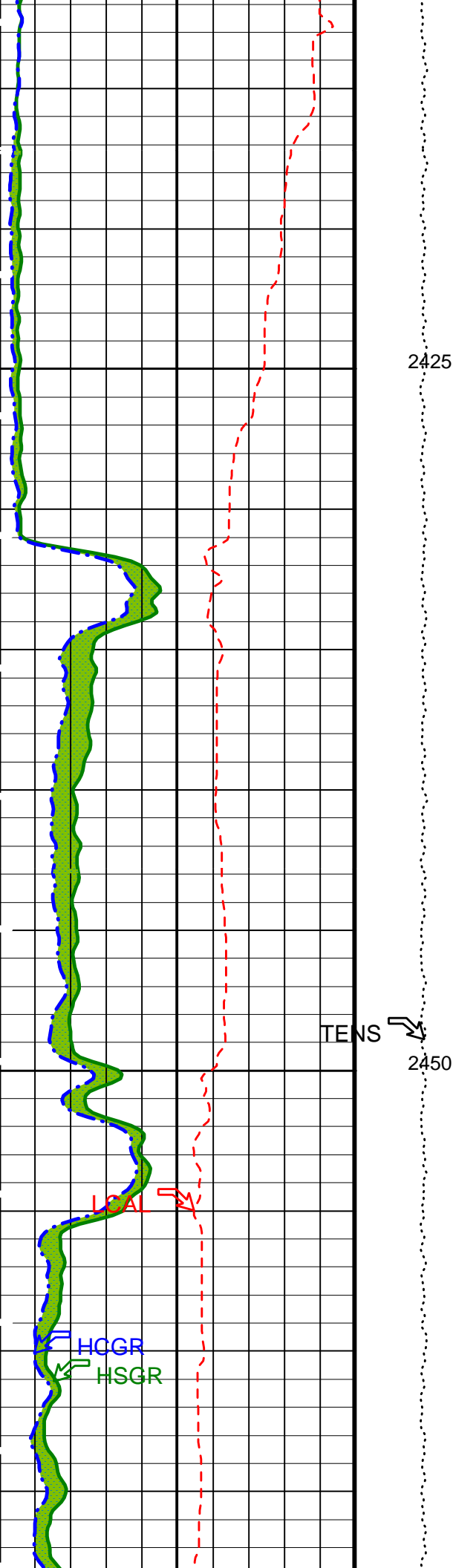




2375

2400



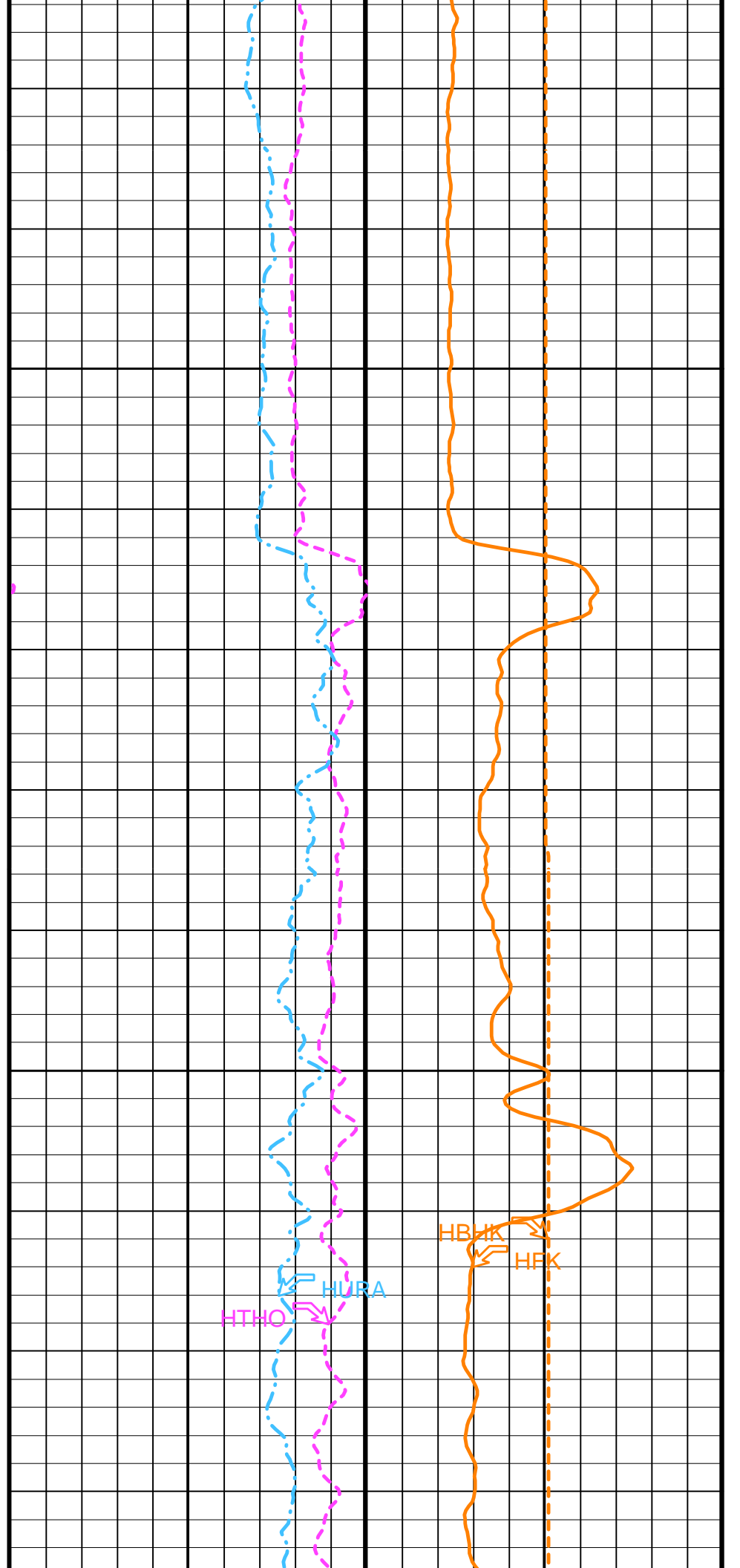


2425

TENS ↘
2450

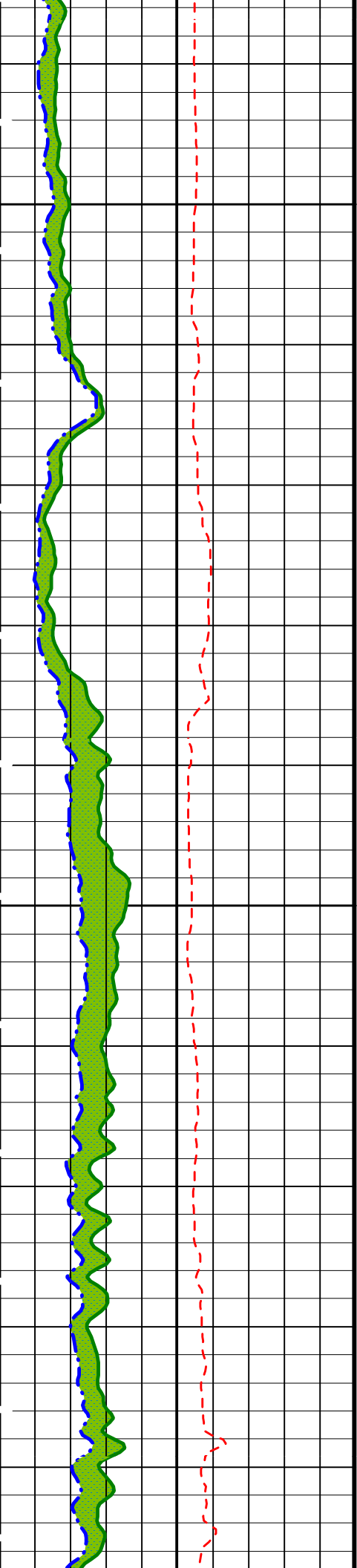
LOAL ↘

HCGR ↘
HSGR ↘



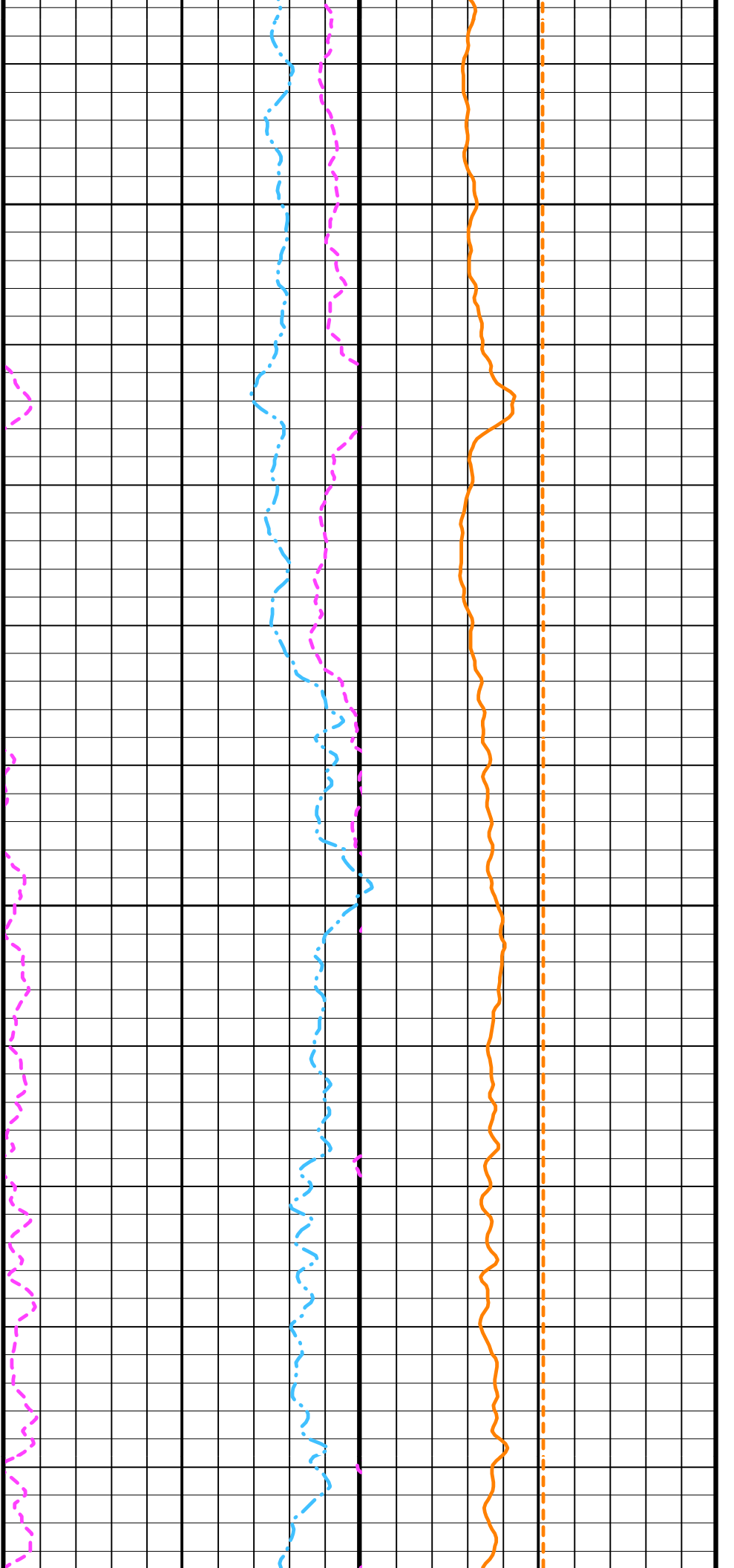
HTHO ↘
HURA ↘

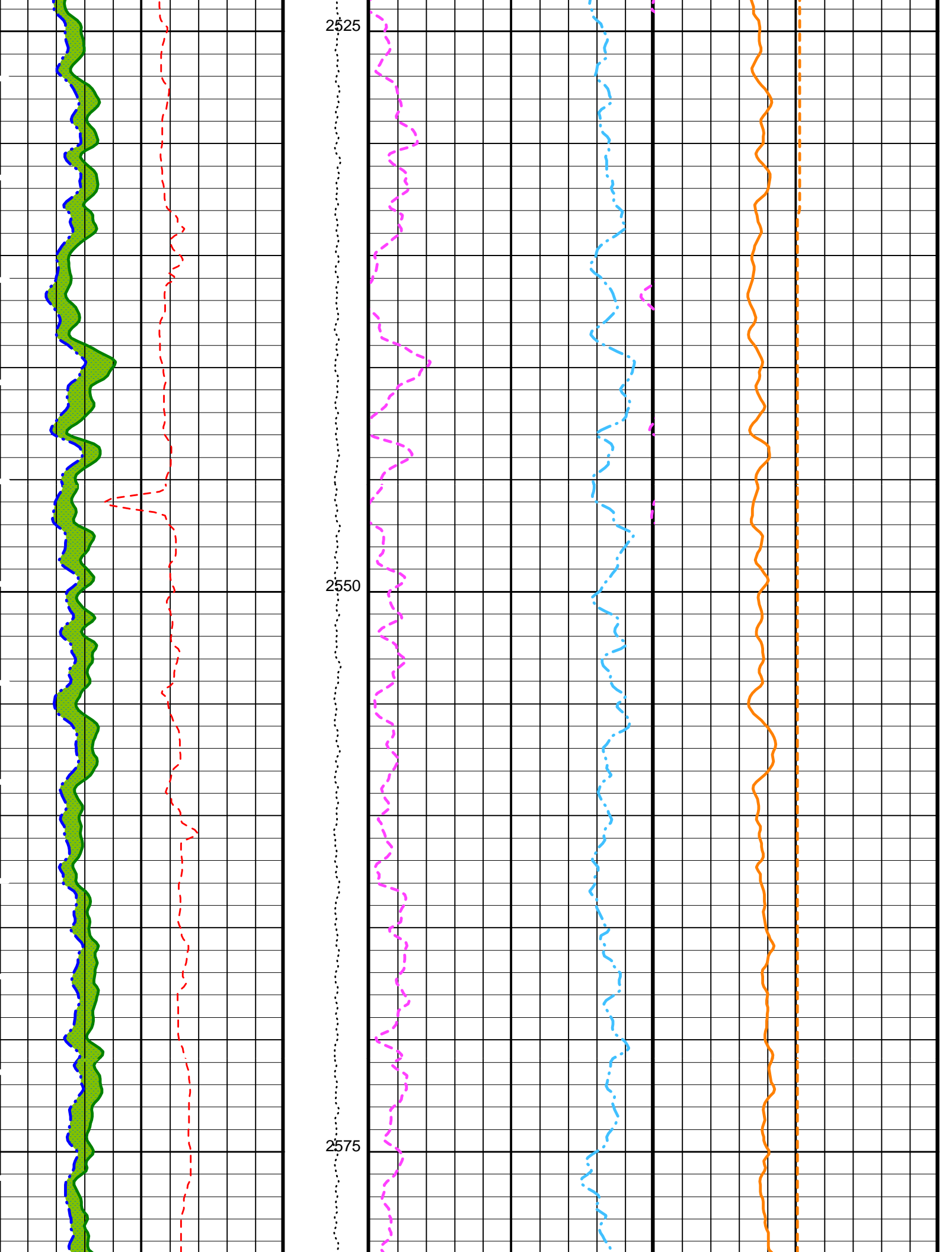
HBKK ↘
HFK ↘

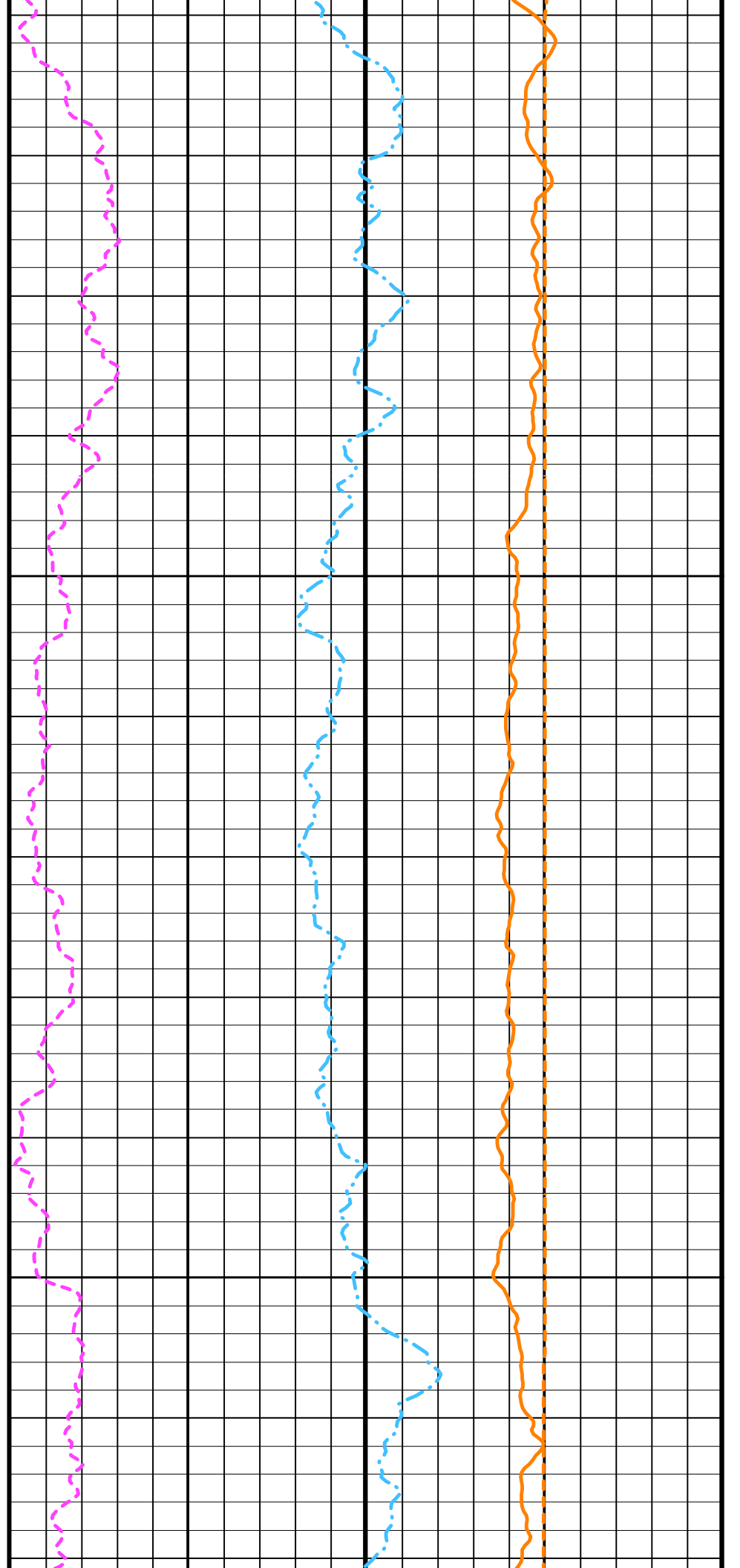
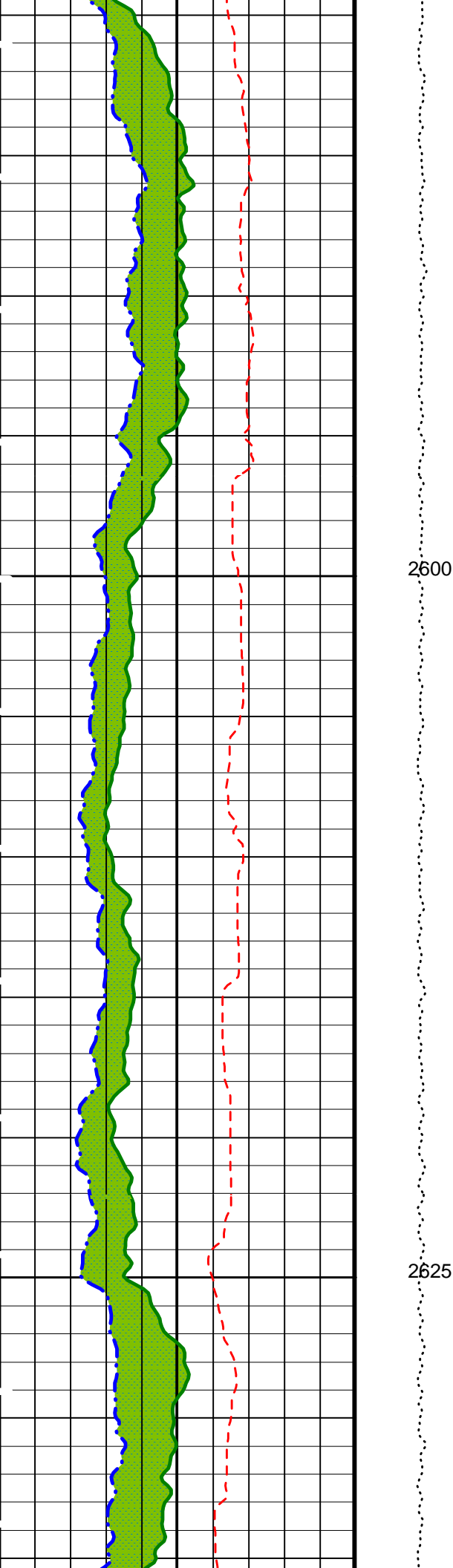


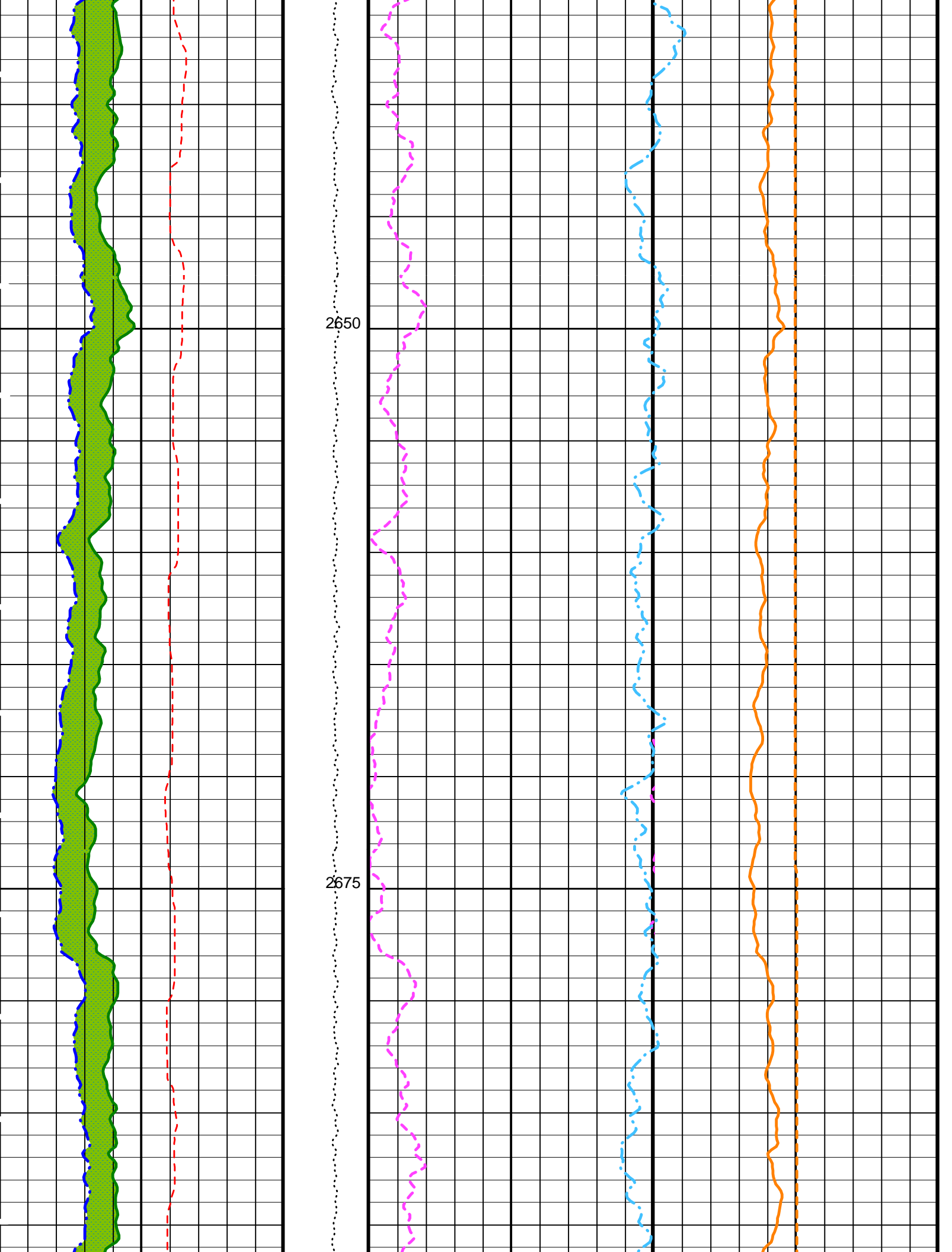
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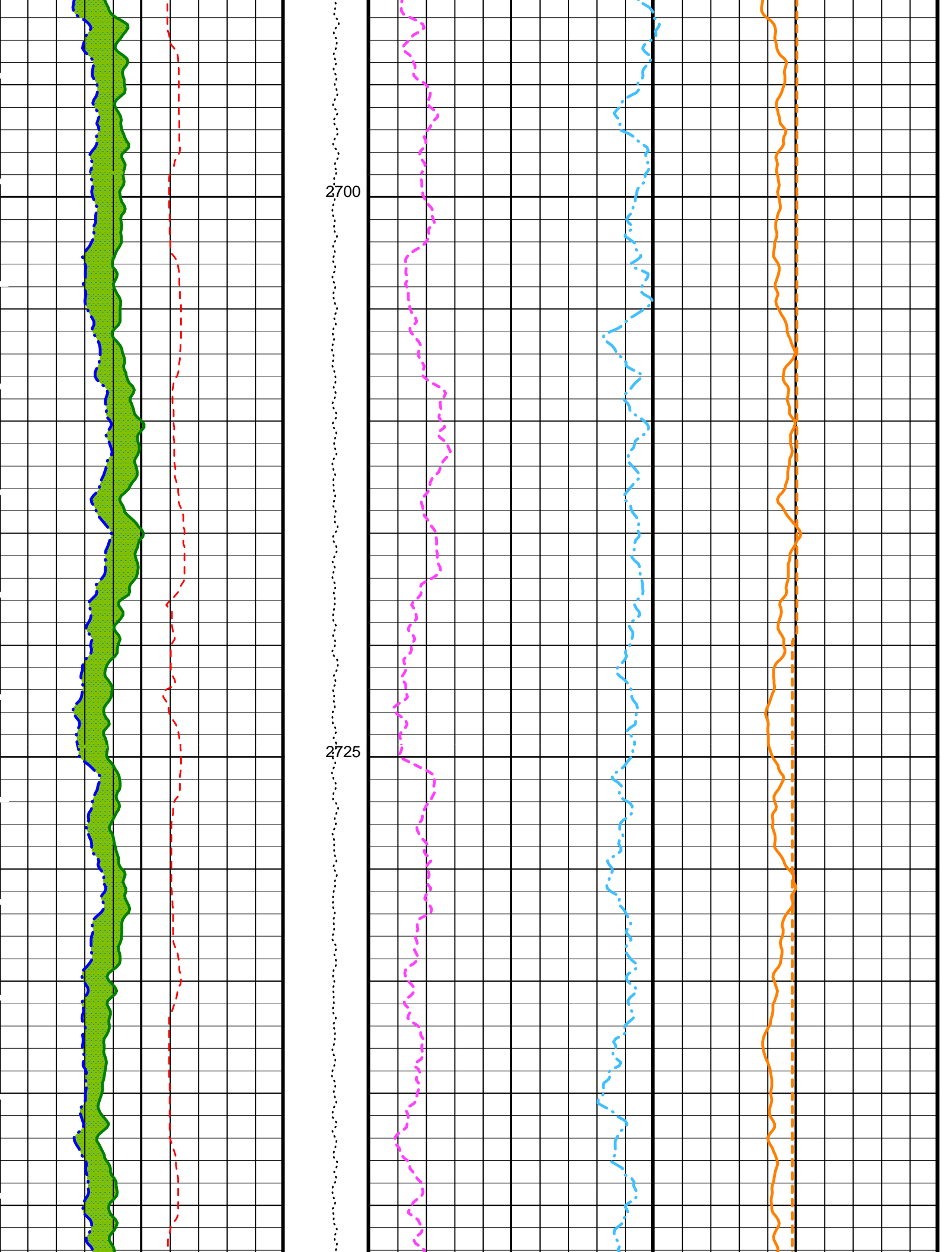
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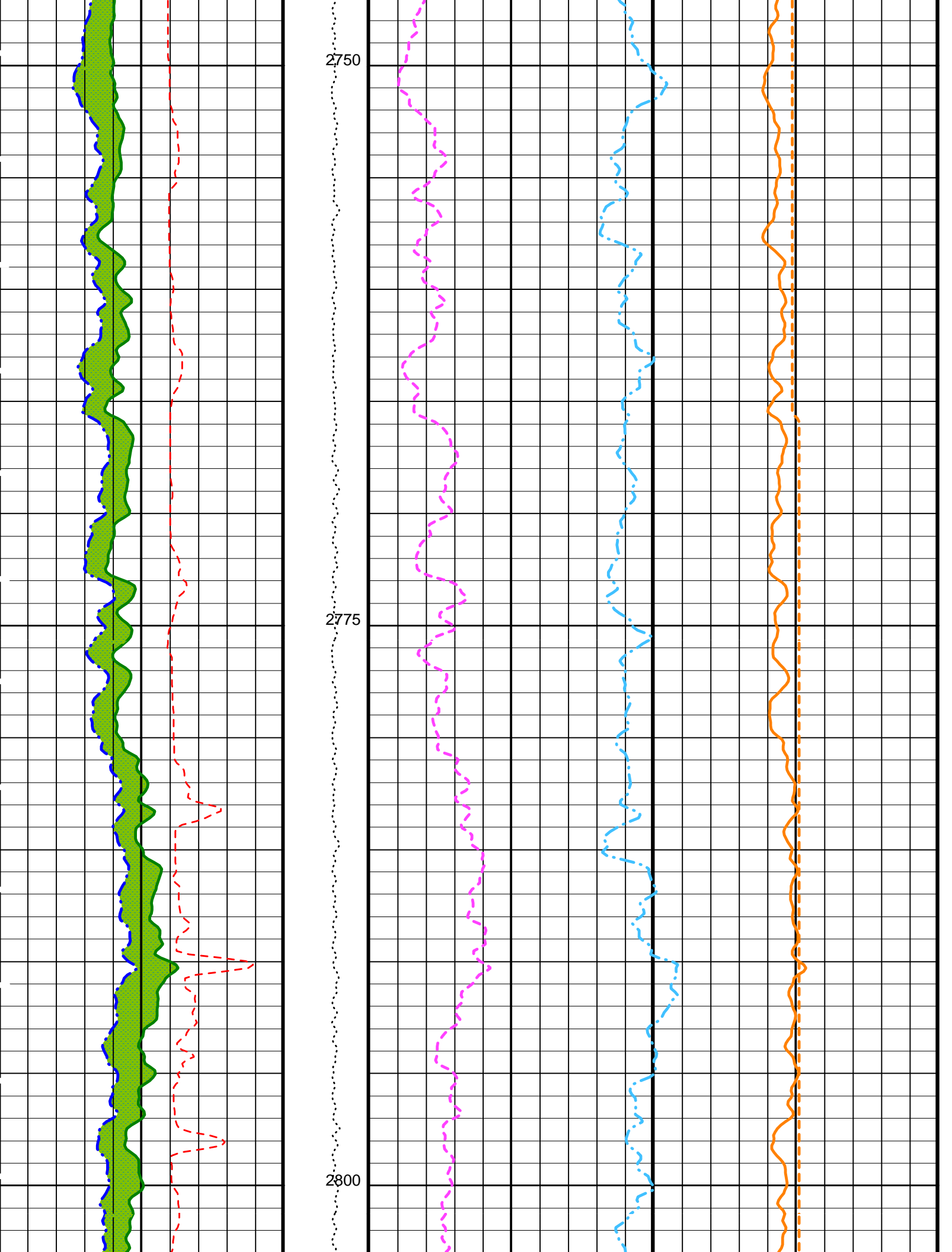


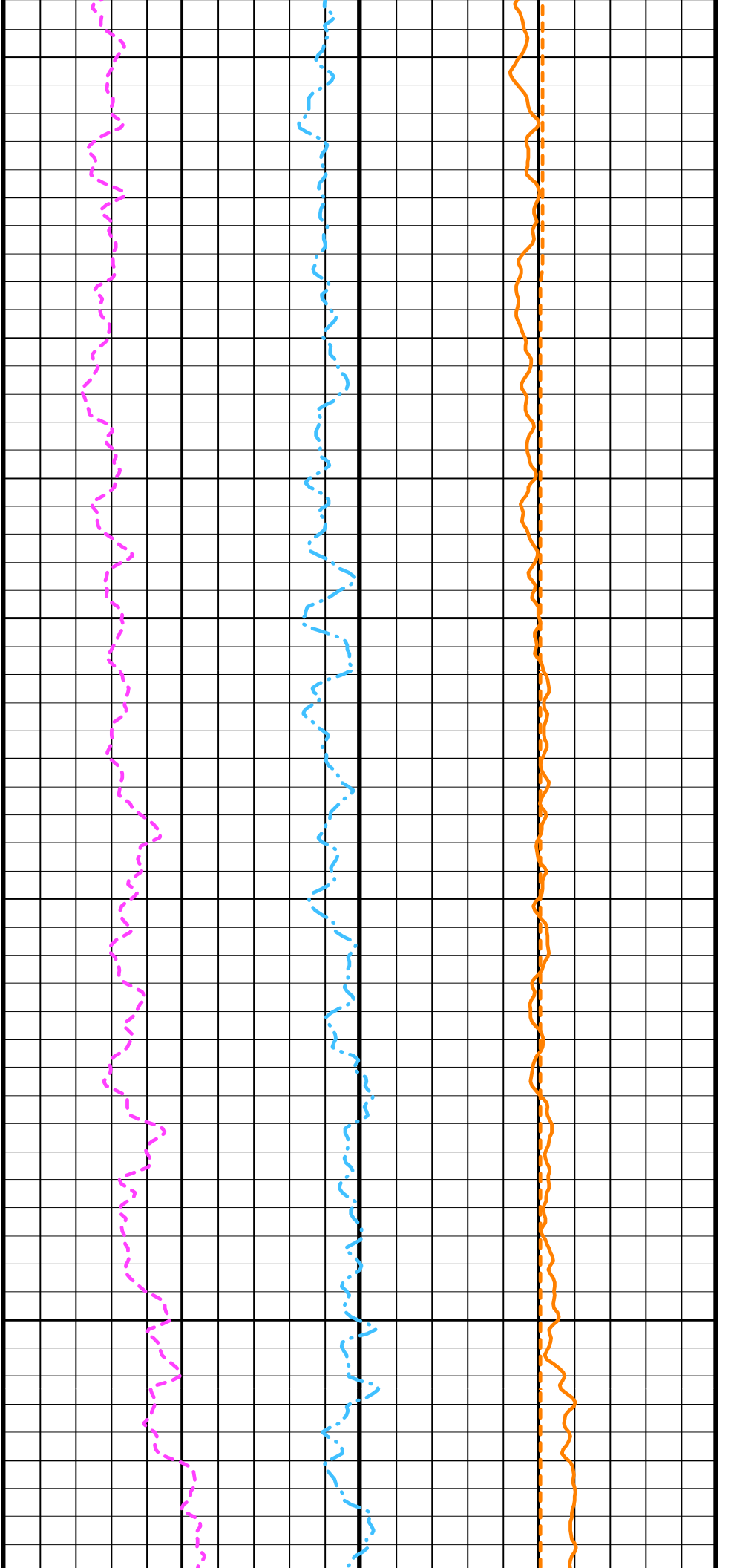
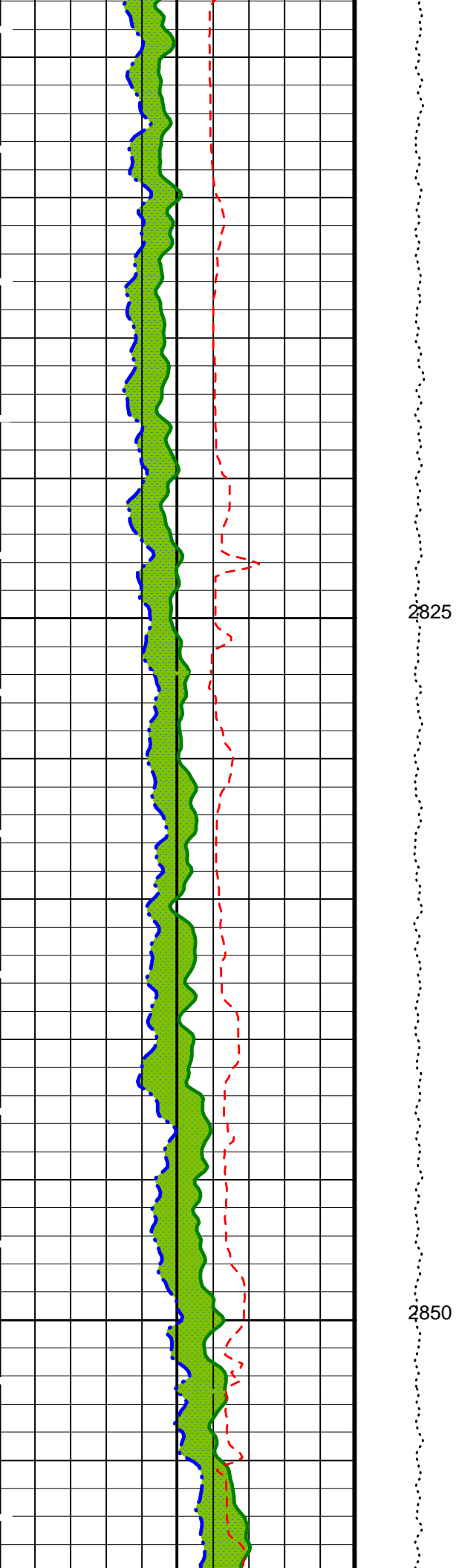


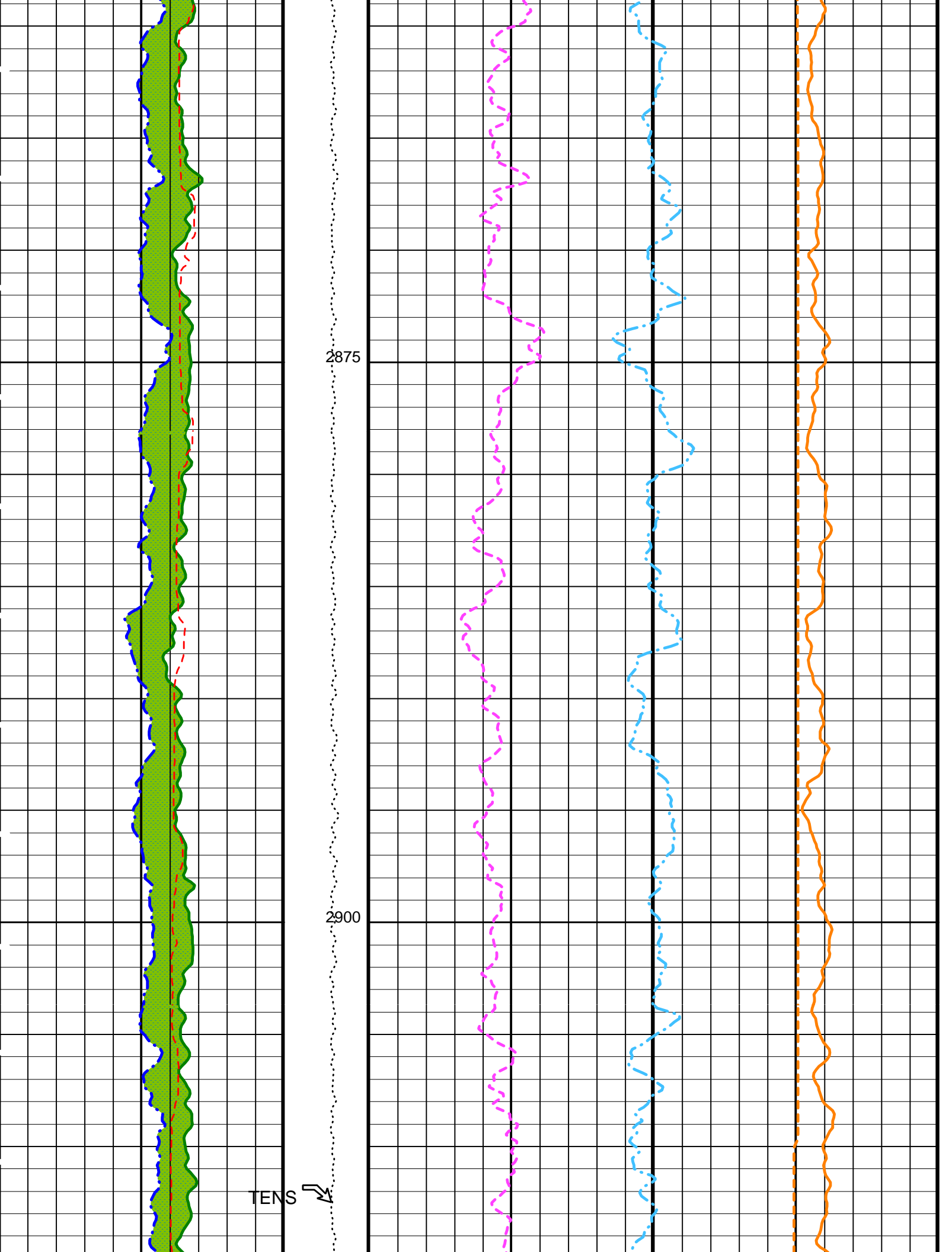


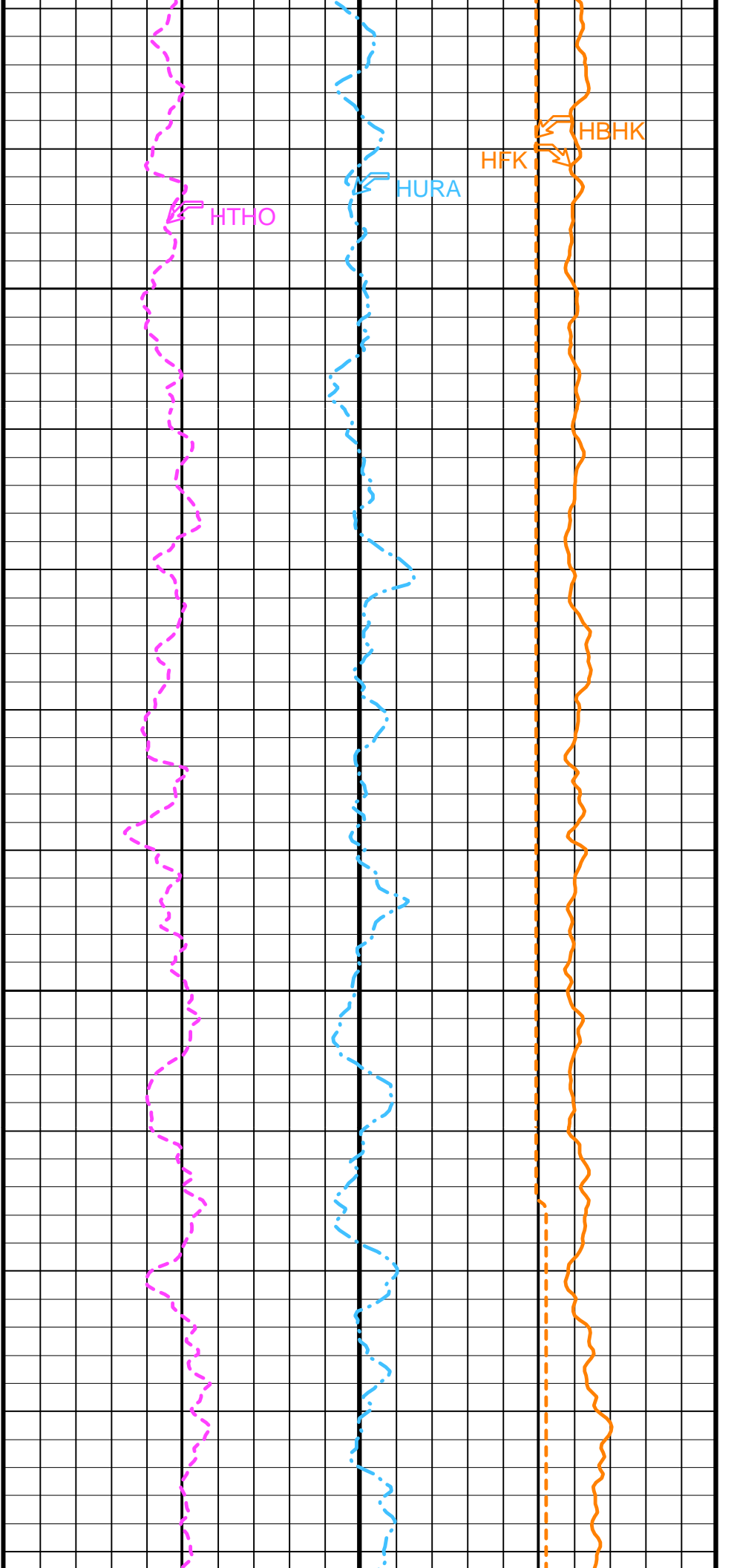
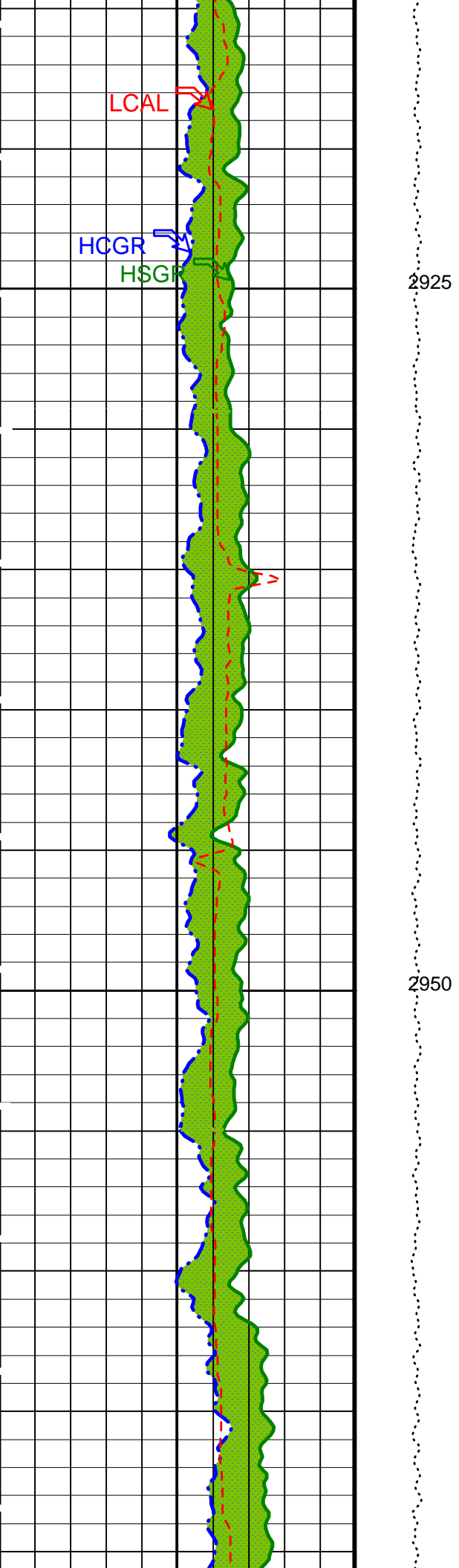


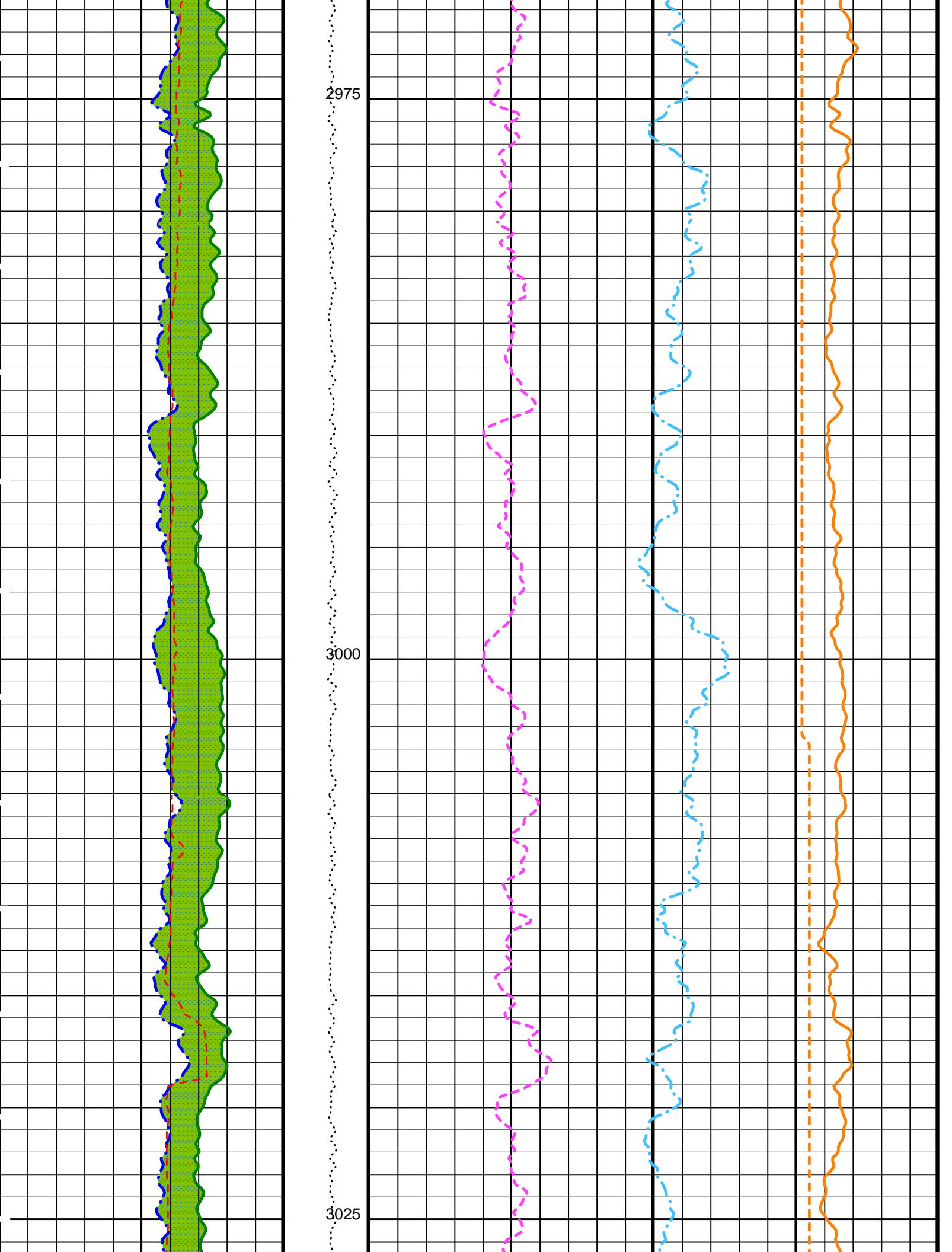


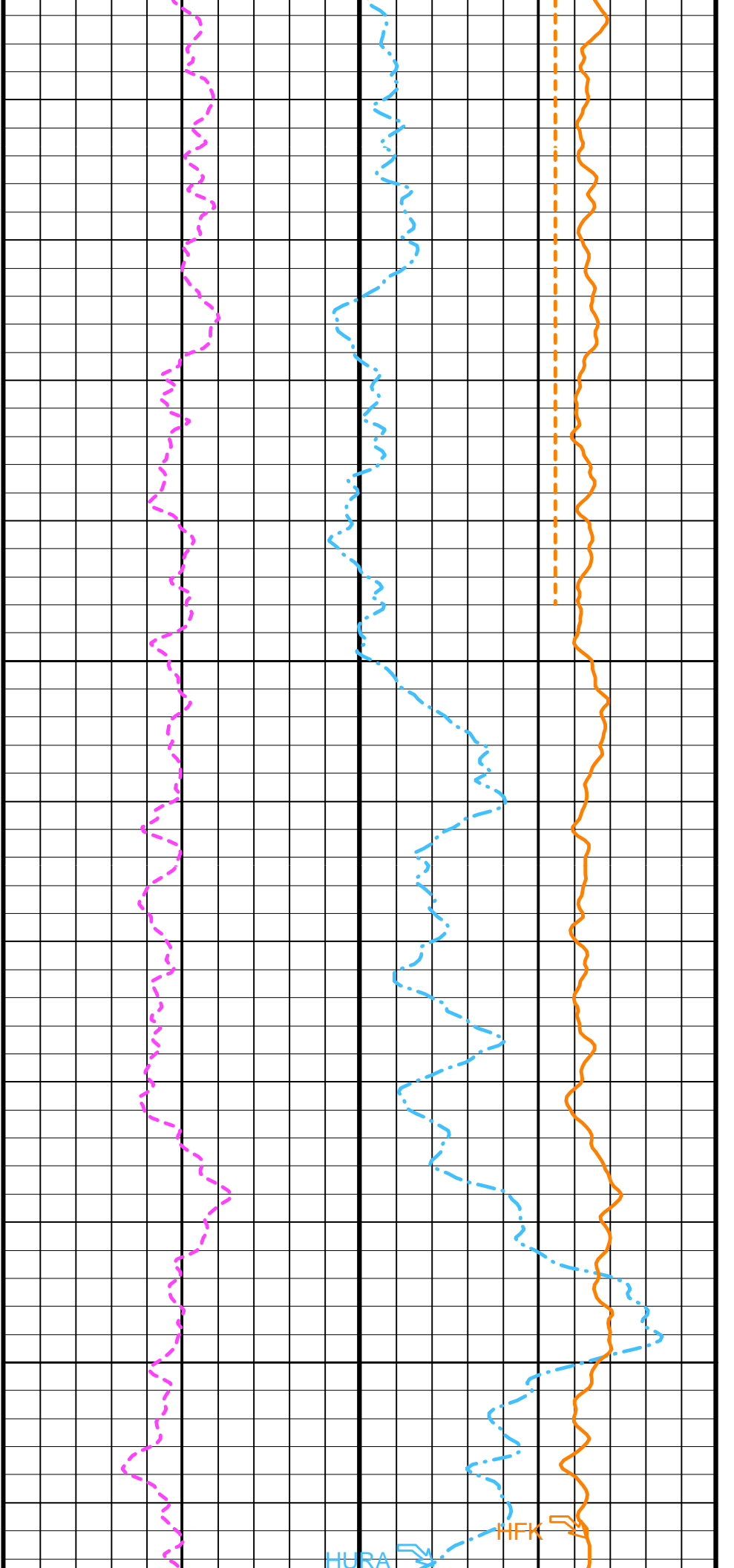
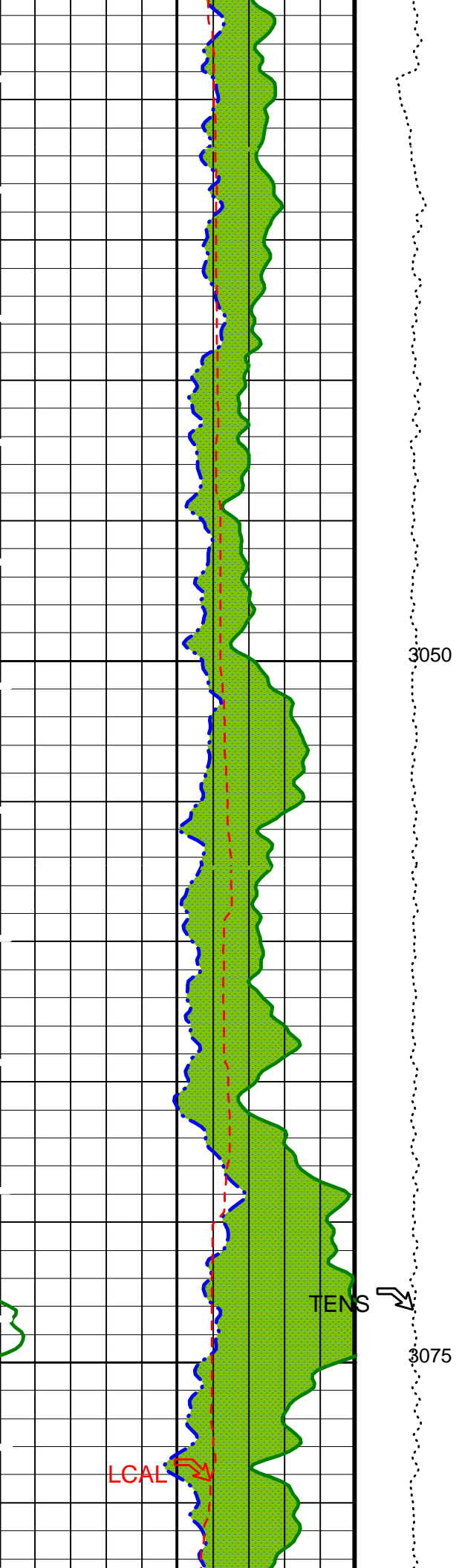


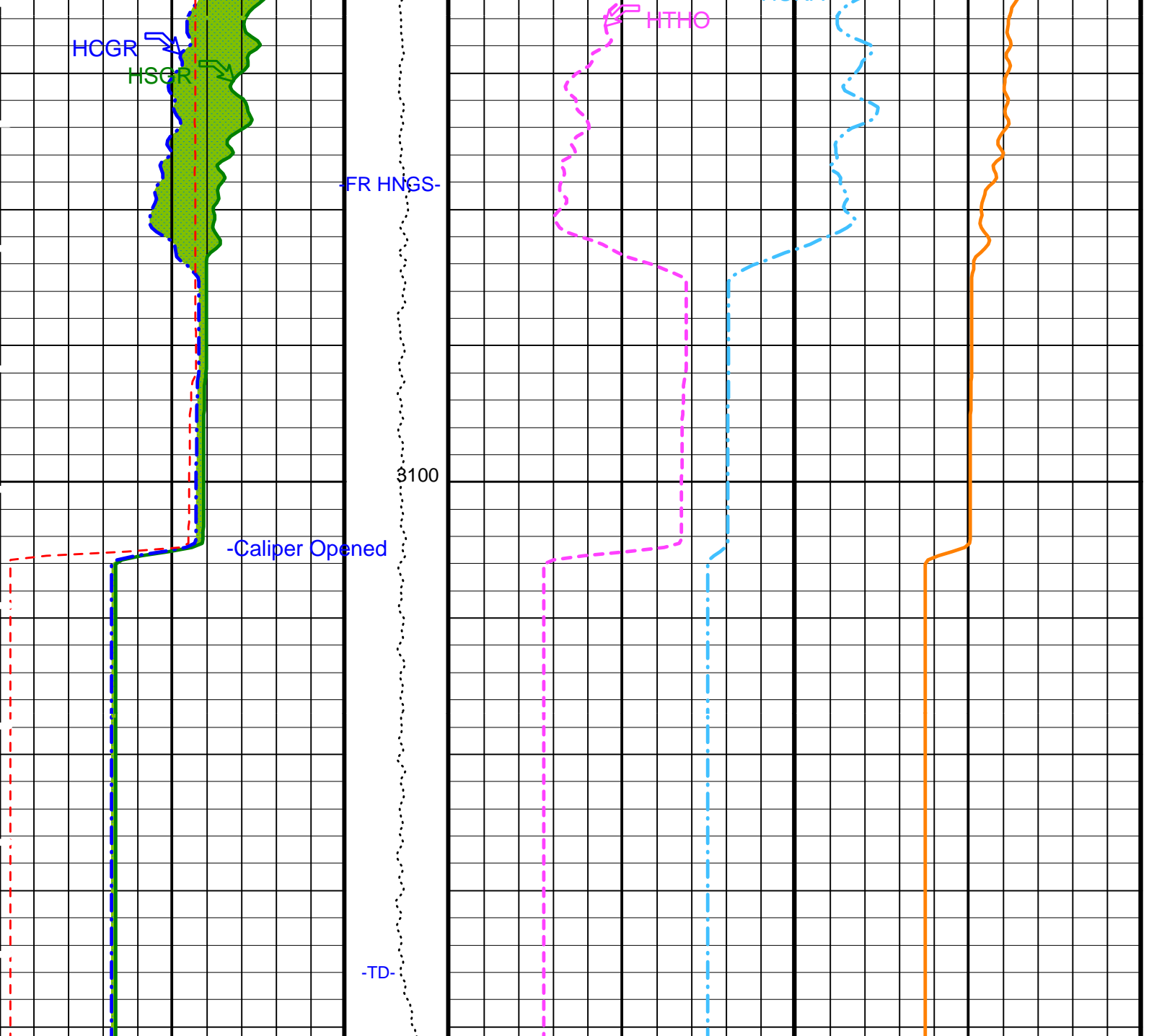












<p>HLDS Caliper (LCAL) (IN) 0 20</p> <p>HNGS Computed Gamma Ray (HCGR) (GAPI) 0 150</p> <p>Area1 From HCGR to HSGR</p> <p>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 150</p>	<p>Tension (TENS) (LBF) 10000 0</p>	<p>HNGS Thorium (HTHO) (PPM) 5 25</p> <p>HNGS Uranium (HURA) (PPM) -5 10</p>	<p>HNGS Potassium (HFK) (PPM) -0.01 (----) 0.04</p> <p>HNGS Borehole Potassium (HBHK) (PPM) -0.05 (----) 0.05</p>
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Main Log

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
PAP1	HNGS Detector 1 Posits Constant	1

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	7.46561	%
D1TC	HNGS Detector 1 Calibration Temperature	46.8749	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	211.312	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	6.19449	%
D2TC	HNGS Detector 2 Calibration Temperature	44.9572	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.601	
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	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	
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	1.03041e-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	28.899	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.992258	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	29.4941	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.981545	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	-999.25	
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: 21-Apr-2000 03:08

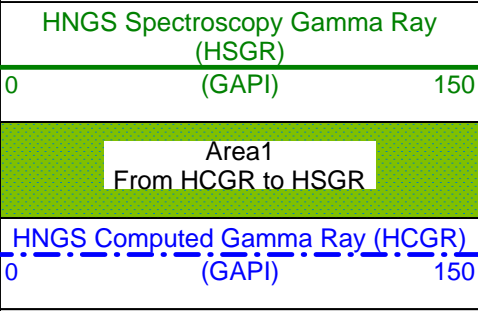
OP System Version: 9C1-303			
MCM			
DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

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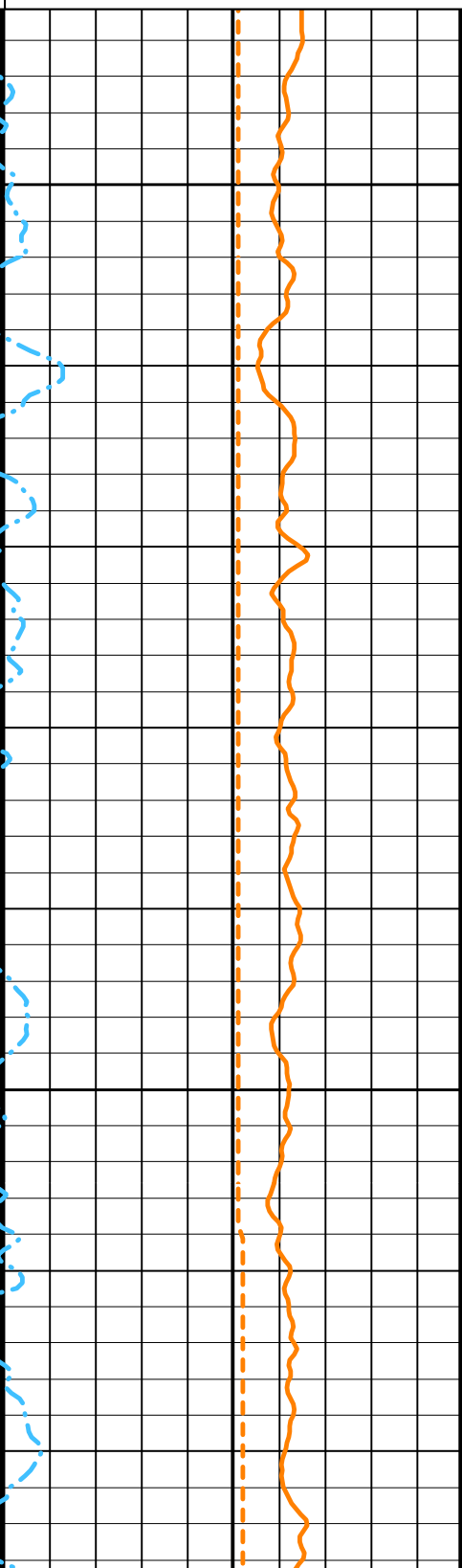
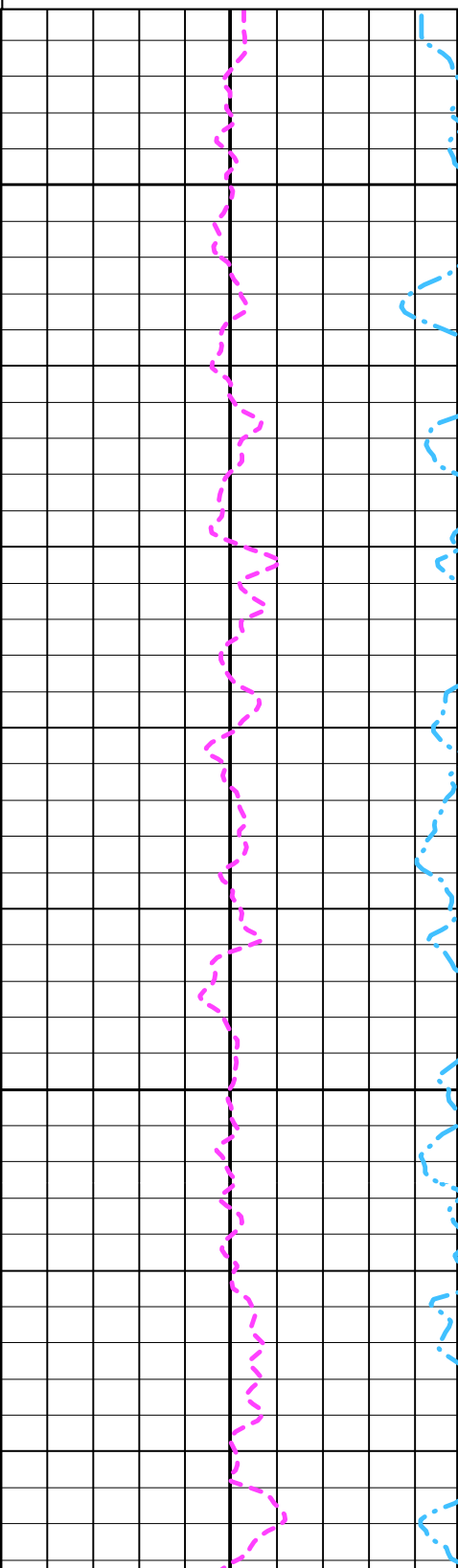
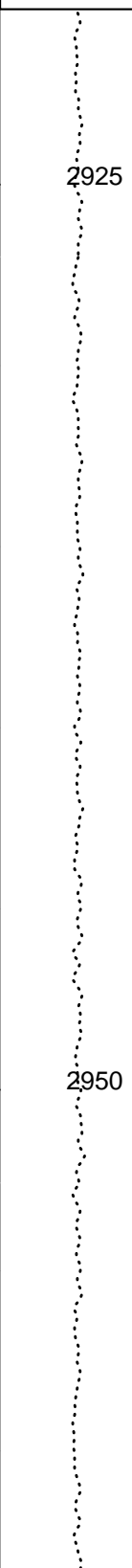
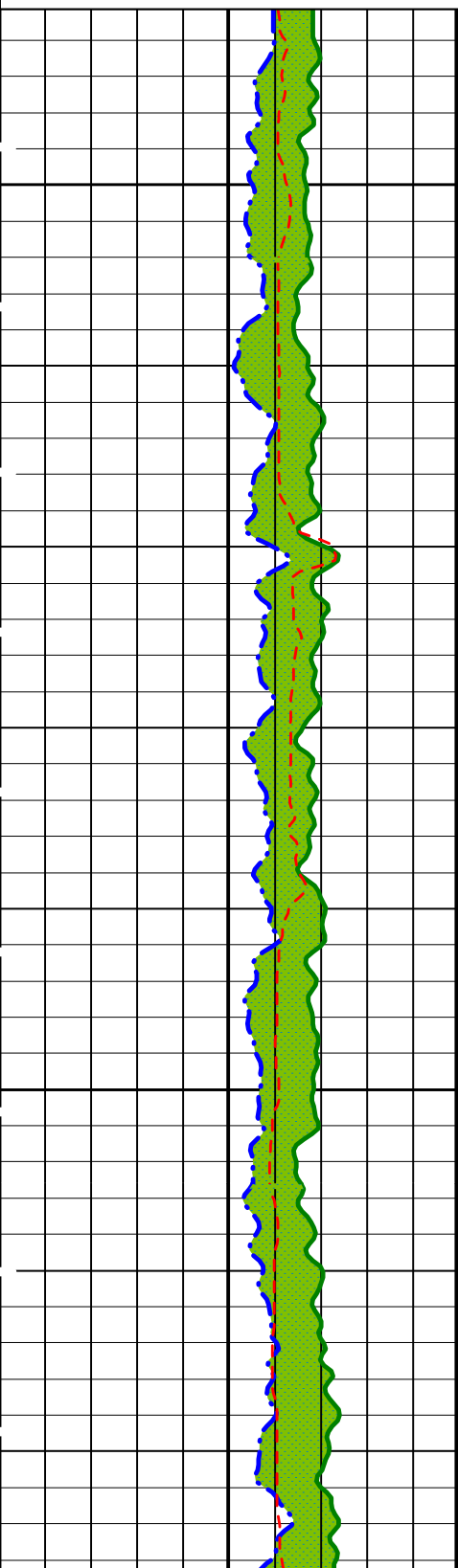
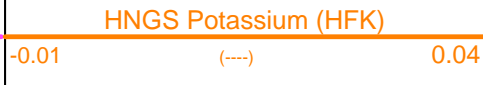
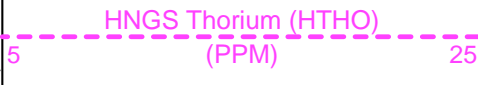
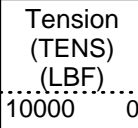
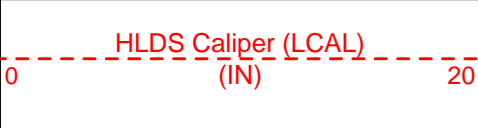
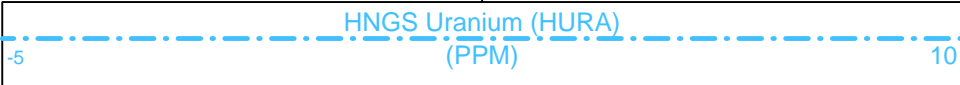
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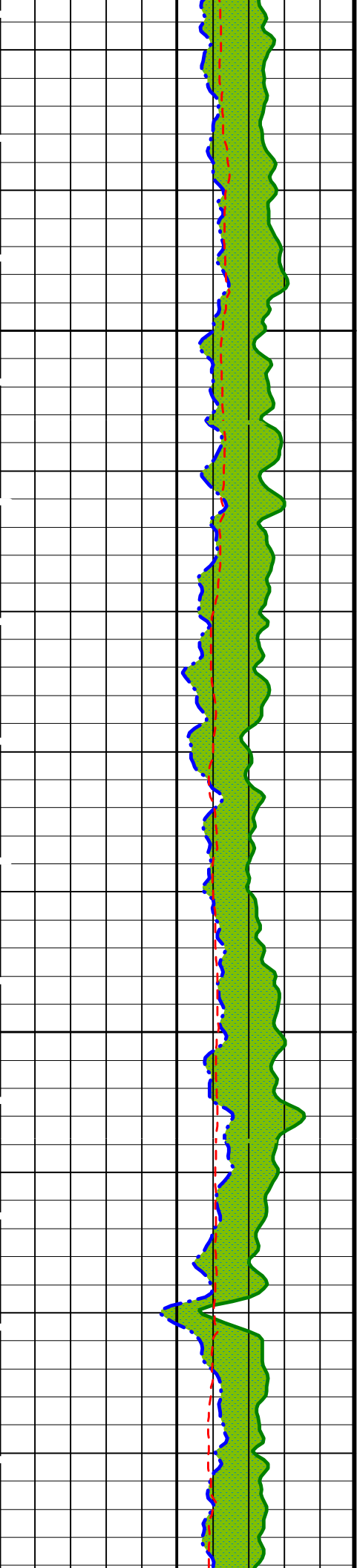
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MCM			
DIT-E	9C1-303	DTA-A	9C1-303
HLDS	9C1-303	NPLC-B	9C1-303
APS-BA	9C1-303	HNGS-BA	9C1-303
DTC-H	9C1-303		

Time Mark Every 60 S



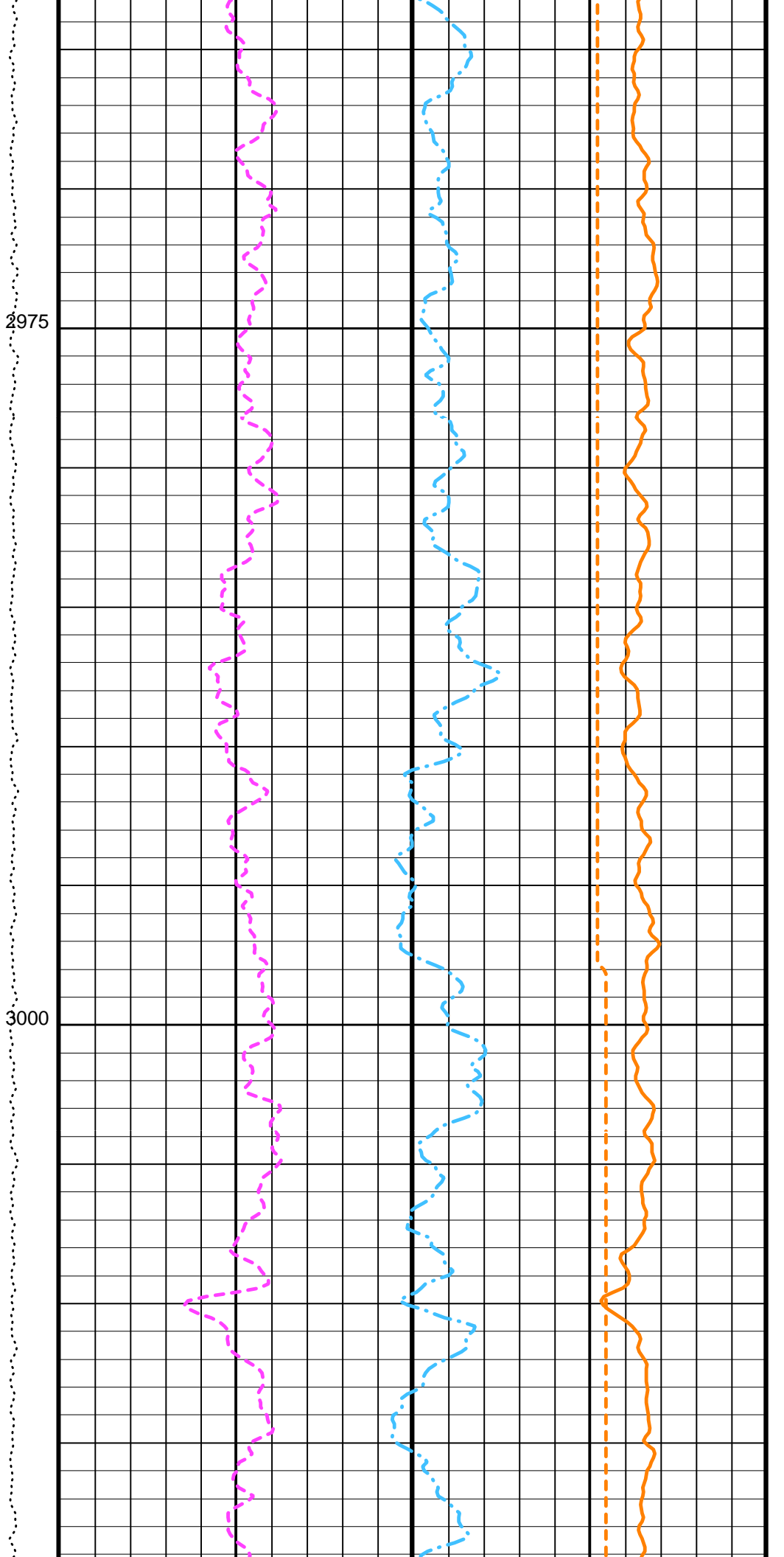
REPEAT SECTION

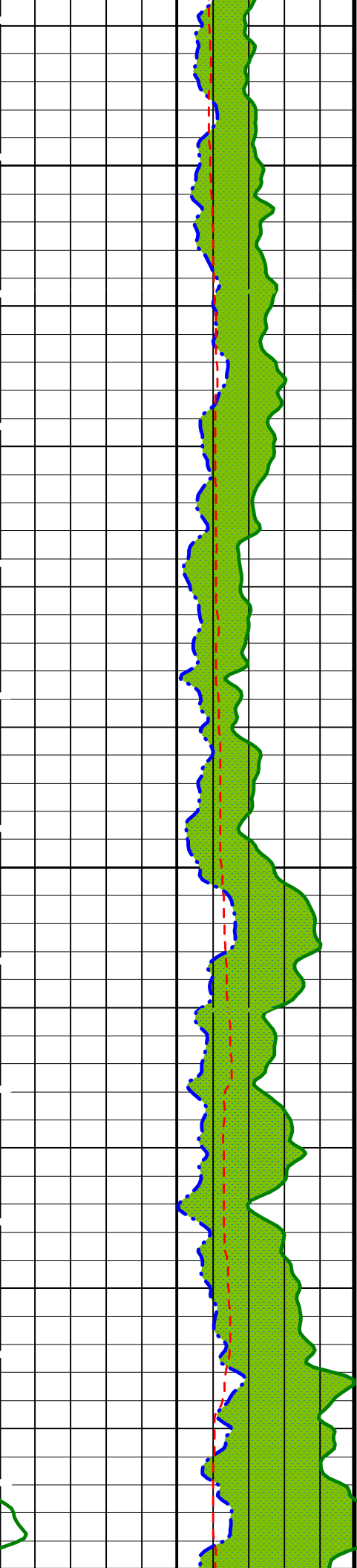




2975

3000

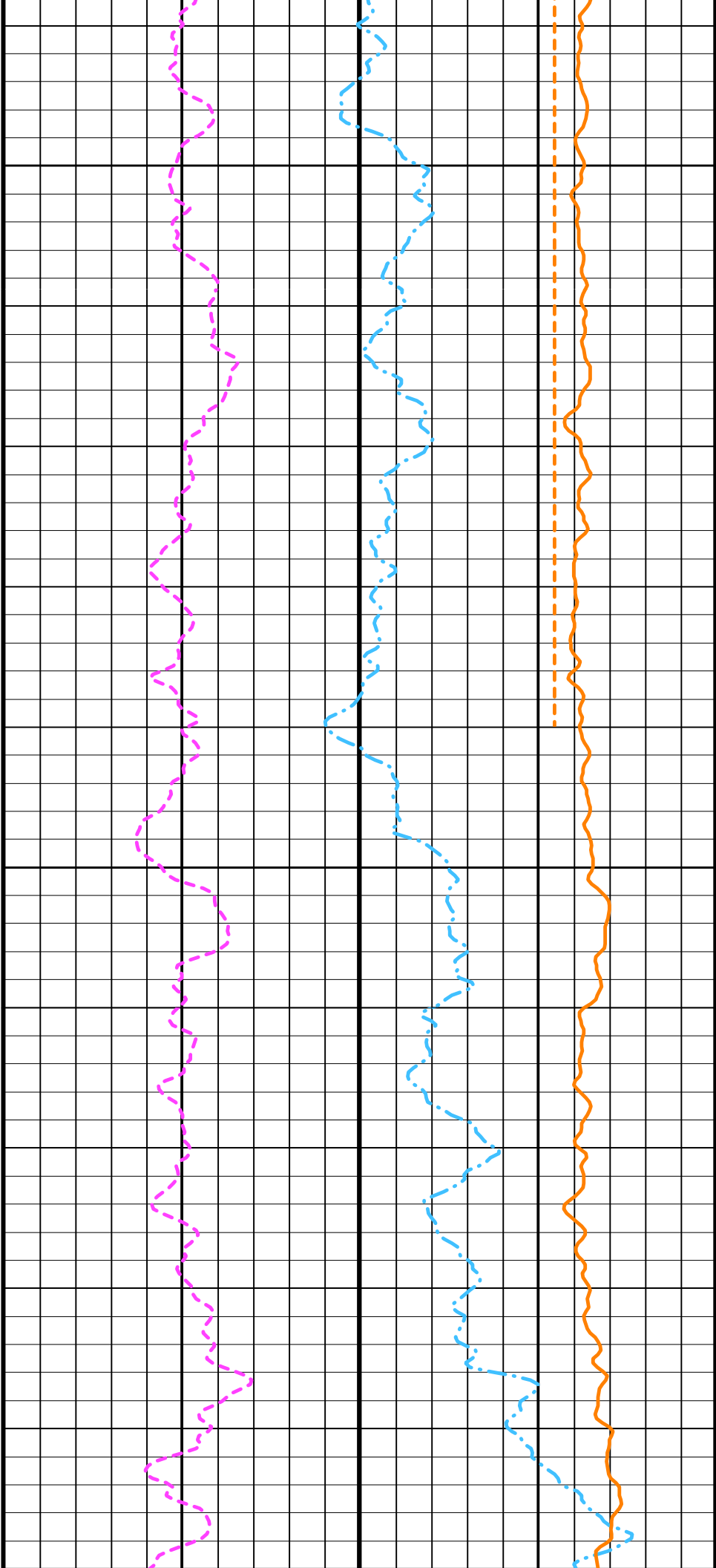


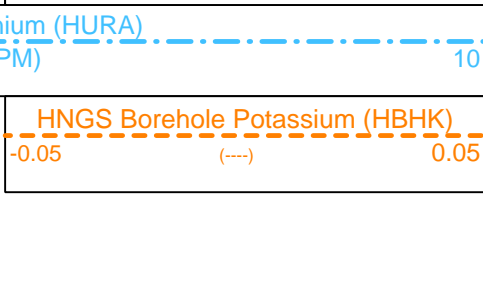
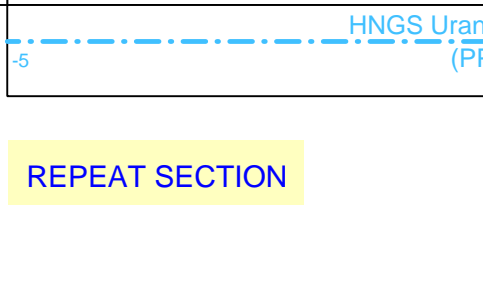
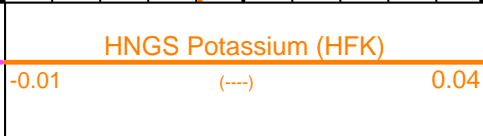
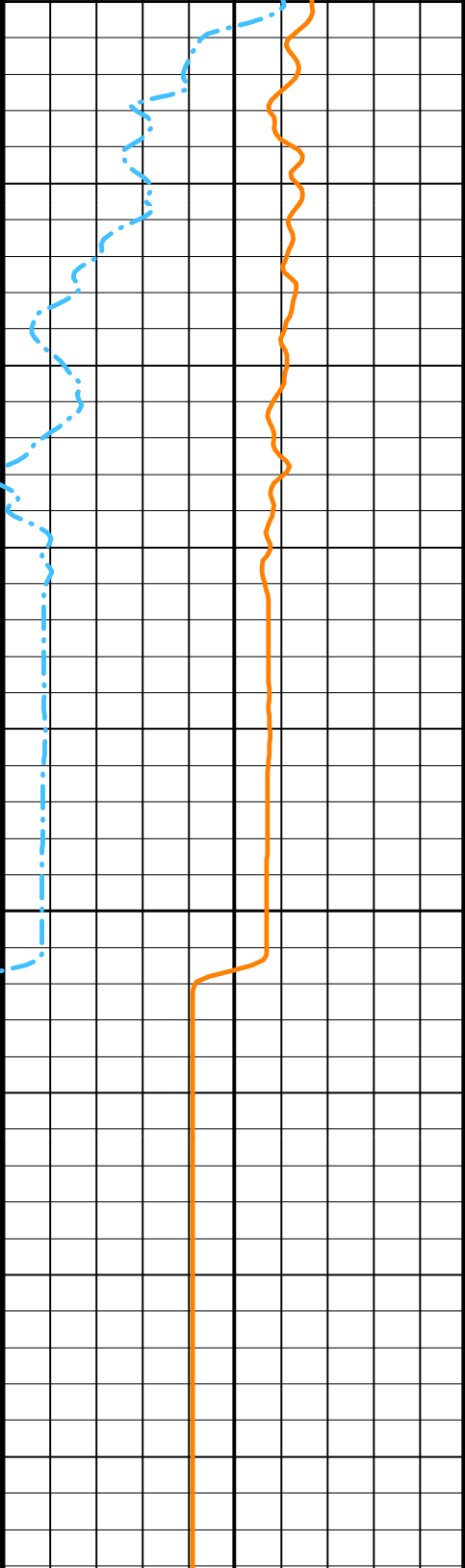
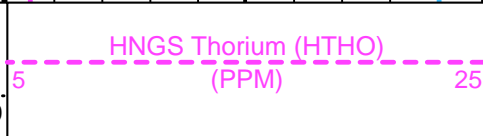
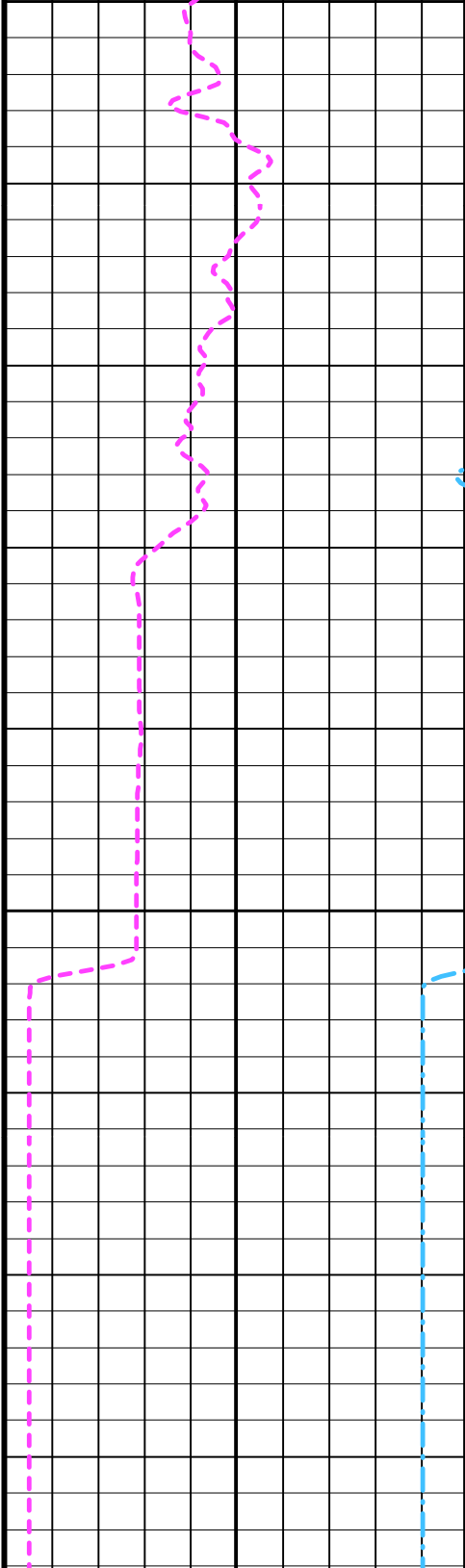
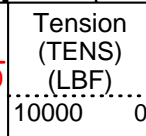
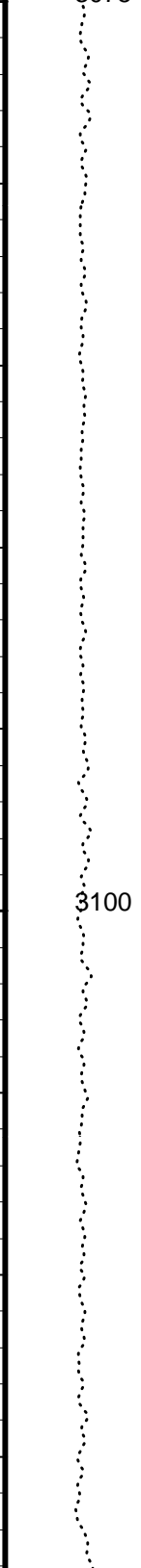
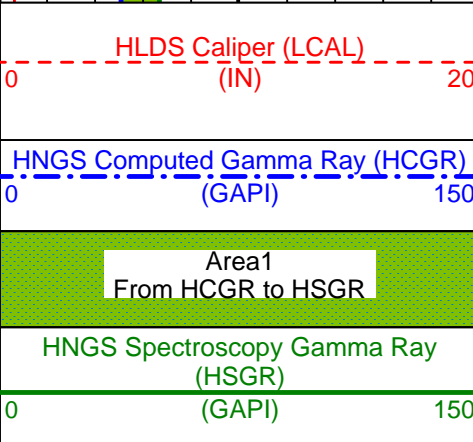
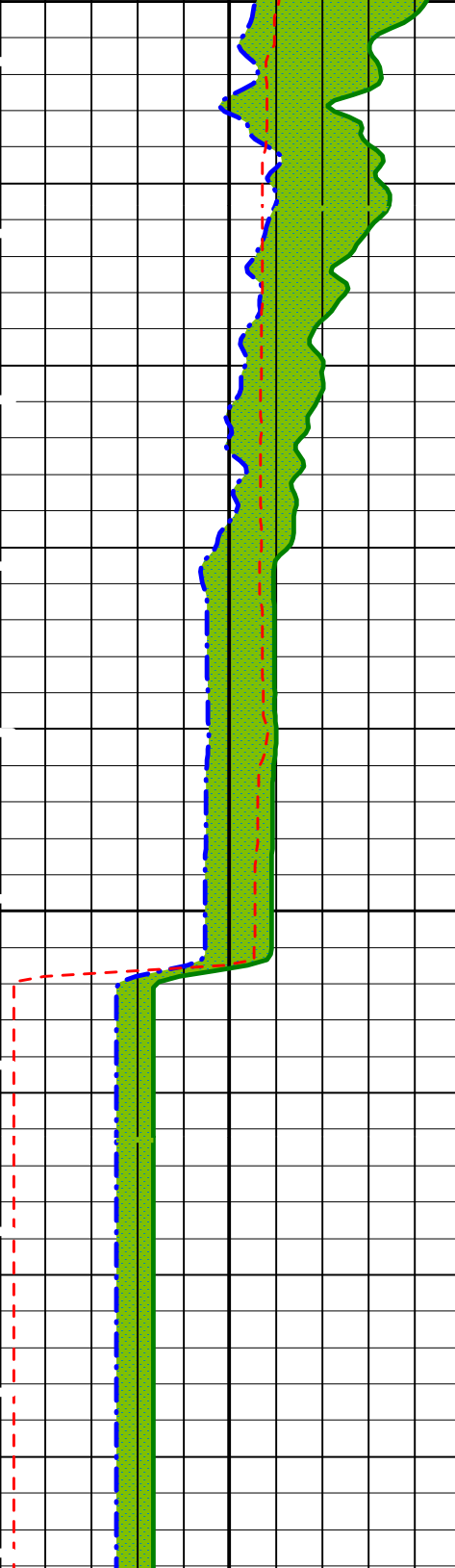


3025

3050

3075





REPEAT SECTION

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	7.46561	%
D1TC	HNGS Detector 1 Calibration Temperature	46.8749	DEGF
D1TL	HNGS Detector 1 Calibration Thorium Peak Location	211.312	
D2PR	HNGS Detector 2 Calibration Thorium Peak Resolution	6.19449	%
D2TC	HNGS Detector 2 Calibration Temperature	44.9572	DEGF
D2TL	HNGS Detector 2 Calibration Thorium Peak Location	209.601	
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	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	-0.00262684	
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	2.5113e-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	28.899	CPS
S1NG	HNGS Detector 1 Calibration End-On / Side-On Gain Ratio	0.992258	
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3	CPS
S2NA	HNGS Detector 2 Calibration Sodium Count Rate	29.4941	CPS
S2NG	HNGS Detector 2 Calibration End-On / Side-On Gain Ratio	0.981545	
SABK	HNGS Statistical Uncertainty in Borehole Potassium Running Average	0.000366421	
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES	
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	1.08021	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.983989	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 21-Apr-2000 07:24

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:17 PRODUCER	21-Apr-2000 07:24
DITE_CUST	DITE .011	FN:18 PRODUCER	21-Apr-2000 07:24

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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Hostile Litho-Density Wellsite Calibration - Background Measurement
 Master: 10-MAR-2000 10:06 Before: 17-MAR-2000 18:41 After: 21-APR-2000 10:34

Master: 10-MAR-2000 10:00	Before: 17-MAR-2000 10:41	After: 21-APR-2000 10:34						
SS Total Countrate Bkg	1645	1446	1441	1438	-3.191	80.00	CPS	
SS HV Measured Bkg	1100	1077	1070	1070	-0.08301	80.00	V	
SS Cs Centroid Bkg	661.0	661.3	661.0	661.4	0.3835	1.500	KEV	
SS Cs Resolution Bkg	9.000	8.490	8.564	8.498	-0.06644	1.800	%	
LS Total Countrate Bkg	1645	1468	1467	1468	0.3845	80.00	CPS	
LS HV Measured Bkg	1100	1195	1190	1188	-2.429	80.00	V	
LS Cs Centroid Bkg	661.0	661.3	661.2	661.2	0.04645	1.500	KEV	
LS Cs Resolution Bkg	9.000	8.744	8.772	8.837	0.06551	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: 2-FEB-2000 21:50 Before: 21-APR-2000 2:18 After: 21-APR-2000 7:05								
Near Det Bkg Cntrate	30.00	32.07	32.82	32.20	-0.6148	N/A	CPS	
Far Det Bkg Cntrate	30.00	32.19	32.41	33.49	1.080	N/A	CPS	
Array-1 Det Bkg Cntrate	30.00	28.58	29.01	29.69	0.6811	N/A	CPS	
Array-2 Det Bkg Cntrate	30.00	30.06	29.14	30.01	0.8639	N/A	CPS	
Array Therm Det Bkg Cntrate	30.00	33.94	33.90	35.35	1.447	N/A	CPS	

Accelerator-Porosity Tool Wellsite Calibration - Detector Plateau Settings

Master: 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: 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: 2-FEB-2000 11:55 Before: 17-MAR-2000 18:42 After: 21-APR-2000 10:35								
Na 511 Peak Loc	40.00	40.51	40.70	40.67	-0.03928	1.000		
Na 511 Peak Res	15.50	15.86	15.41	15.38	-0.02697	2.000	%	
High Voltage	1150	1114	1112	1113	1.265	30.00	V	
Na 1785 Peak Loc	142.6	145.5	145.3	145.2	-0.1492	7.000		
Na 1785 Peak Res	8.500	9.054	8.948	9.603	0.6542	2.000	%	
Temperature	15.50	8.268	21.55	15.17	-6.379	N/A	DEGC	
Na Count Rate	45.00	28.90	27.69	26.48	-1.208	8.000	CPS	

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 2-FEB-2000 11:55 Before: 17-MAR-2000 18:42 After: 21-APR-2000 10:35								
Na 511 Peak Loc	40.00	40.64	40.50	40.68	0.1817	1.000		
Na 511 Peak Res	15.50	14.00	15.27	14.59	-0.6871	2.000	%	
High Voltage	1150	1201	1200	1199	-1.425	30.00	V	
Na 1785 Peak Loc	142.6	144.2	145.0	145.0	0.01640	7.000		
Na 1785 Peak Res	8.500	8.101	8.587	7.770	-0.8167	2.000	%	
Temperature	15.50	7.197	20.53	15.41	-5.111	N/A	DEGC	
Na Count Rate	45.00	29.49	28.21	26.74	-1.471	8.000	CPS	

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

Master: 2-FEB-2000 11:55 Before: 17-MAR-2000 18:42 After: 21-APR-2000 10:35								
Coincidence Count Rate Ratio	1.000	0.9809	0.9840	0.9869	0.002968	0.05000		

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration

Master: 2-FEB-2000 11:43								
Na 511 Peak Set Point	40.00	41.00	--	--	--	--		
Th Peak Loc	209.6	211.3	--	--	--	--		
Th Peak Res	7.000	7.466	--	--	--	--	%	
Background Count Rate	142.5	18.16	--	--	--	--	CPS	
Gain Ratio	1.000	0.9923	--	--	--	--		

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration

Master: 2-FEB-2000 11:43								
Na 511 Peak Set Point	40.00	41.00	--	--	--	--		
Th Peak Loc	209.6	209.6	--	--	--	--		
Th Peak Res	7.000	6.194	--	--	--	--	%	
Background Count Rate	142.5	20.51	--	--	--	--	CPS	
Gain Ratio	1.000	0.9815	--	--	--	--		

Dual Induction - E / Equipment Identification

Primary Equipment:

Dual Induction Sonde	DIS - HB	200
Dual Induction Sonde	DIS - FB	174

Dual Induction Cartridge	DIC - EB	171
Auxiliary Equipment: Mass Isolated Housing	MIH - ZA	174

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	82
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


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




















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		40.51	Master		15.86	Master		1114
Before		40.70	Before		15.41	Before		1112
After		40.67	After		15.38	After		1113
	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		145.5	Master		9.054	Master		8.268
Before		145.3	Before		8.948	Before		21.55
After		145.2	After		9.603	After		15.17
	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		28.90						
Before		27.69						

After		26.48
	15.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)	
Master: 2-FEB-2000 11:55 Before: 17-MAR-2000 18:42 After: 21-APR-2000 10:35		

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		40.64	Master		14.00	Master		1201
Before		40.50	Before		15.27	Before		1200
After		40.68	After		14.59	After		1199
	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		144.2	Master		8.101	Master		7.197
Before		145.0	Before		8.587	Before		20.53
After		145.0	After		7.770	After		15.41
	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		29.49						
Before		28.21						
After		26.74						
	15.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							
Master: 2-FEB-2000 11:55 Before: 17-MAR-2000 18:42 After: 21-APR-2000 10:35								

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9809
Before		0.9840
After		0.9869
	0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)	
Master: 2-FEB-2000 11:55		
Before: 17-MAR-2000 18:42		
After: 21-APR-2000 10:35		

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		211.3	Master		7.466
	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	See Remarks		
Master	EXCEEDS LIMIT	18.16	Master		0.9923			
	20.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)				
Master: 2-FEB-2000 11:43								

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		209.6	Master		6.194
	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	See Remarks		
Master		20.51	Master		0.9815			
	20.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)				
Master: 2-FEB-2000 11:43								

COMPANY: Lamont Doherty

WELL: ODP Leg 189, Site 1171D (STR-2A)

FIELD: Tasmanian Seaway, West Tasmania Site

COUNTY: Offshore

STATE: Indian Ocean

BOTTOM LOG INTERVAL	3089 m
SCHLUMBERGER DEPTH	3118 m
DEPTH DRILLER	3117.8 m
KELLY BUSHING	11.2 m
DRILL FLOOR	10.9 m
GROUND LEVEL	-2148



Natural Gamma Spectrometry Log