

Company: Lamont Doherty

Well: IODP EXP 305 Site U1309D

Field: Atlantis Massif

Rig: Joides Resolution

Ocean: Atlantic Ocean

Hostile Natural Gamma Ray

LOCATION		Mid-Atlantic Ridge	Elev.: K.B. 11.3 m G.L. -1656 m D.F. 11 m
Permanent Datum:	Mean Sea Level _____	Elev.: 0 m _____	
Log Measured From:	Rig Floor _____	11.3 m above Perm. Datum	
Drilling Measured From:	Rig Floor _____		
API Serial No.	Max. Hole Devi.	Longitude	Latitude
31-Jan-2005		42.11865 W	30.16847 N

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				

Logging Date	31-Jan-2005		
Run Number	Two		
Depth Driller	2493.4 m		
Schlumberger Depth	2493.4 m		
Bottom Log Interval	2490 m		
Top Log Interval	1826 m		
Casing Driller Size @ Depth	0.000 in @ 1826 m		
Casing Schlumberger	1826 m		
Bit Size	9.875 in		
Type Fluid In Hole	Fresh Water		
Density	1.2 g/cm3		
Fluid Loss	0 cm3		
Source Of Sample			
RM @ Measured Temperature	0.322 ohm.m @ 50 degC		
RMF @ Measured Temperature	@ @		
RMC @ Measured Temperature	@ @		
Source RMF	RMC		
RM @ MRT	0.322 @ 50 @ 50		
Maximum Recorded Temperatures	50 degC		
Circulation Stopped	30-Jan-2005 23:00		
Logger On Bottom	31-Jan-2005 8:50		
Unit Number	2082 Houston		
Recorded By	Javier Espinosa		
Witnessed By	Heike Dellius, Margarete Linek		

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: DLT, HNGS, APS
 OS2: MEST, DSST
 OS3: UBI
 OS4: WST
 OS5:

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

REMARKS: RUN NUMBER 1
 Hole Cored with RCB
 All depths in Meters Below Rig Floor (MBRF).
 Hole flushed with fresh water
 Tool ran as per tool sketch below

REMARKS: RUN NUMBER 2

RUN 1
 SERVICE ORDER #:
 PROGRAM VERSION: 12C0-301
 FLUID LEVEL:

RUN 2
 SERVICE ORDER #:
 PROGRAM VERSION:
 FLUID LEVEL:

LOGGED INTERVAL	START	STOP

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1

SURFACE EQUIPMENT
 WITM (DTS)-A
 LCM-AA
 SFT-281 6250
 SFT-178 6250
 GSR-U 135

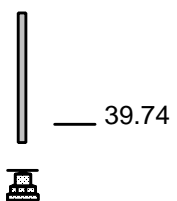
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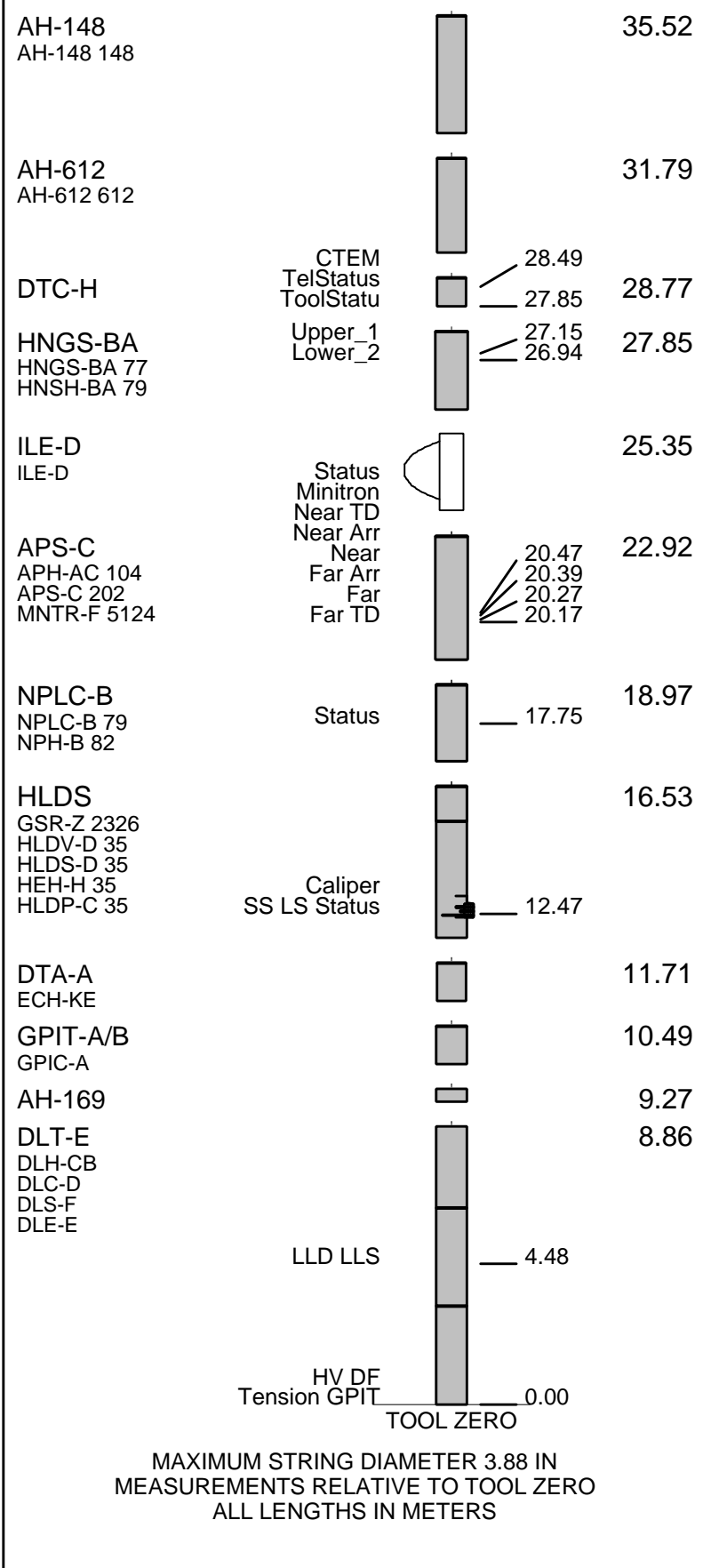
DOWNHOLE EQUIPMENT

BSP 60.80
 BRT-S

SP SPARC 39.74

LEH-QT 36.41





Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation

11.8

Derrick Floor Elevation

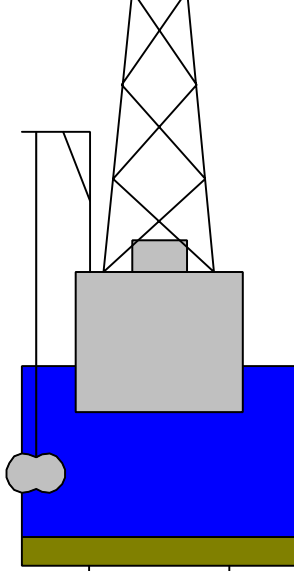
11.8

Mean Sea Level

0.0

Seismic Gun depth below MSL

-304.6



0.0 5.000

Casing String

1656.0 9.875

Borehole Segment

1826.0 5.000

Casing Shoe

Schlumberger

MAIN PASS

MAXIS Field Log

Company: Lamont Doherty

Well: IODP EXP 305 Site 1309D

Input DLIS Files

DEFAULT	DLL_LDL_APS_NGS_011LUP	FN:13	PRODUCER	31-Jan-2005 08:52	8167.5 FT	5853.0 FT
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OP System Version: 12C0-301

MCM

DLTE	12C0-301	GPIT-A	12C0-301
DTAA	12C0-301	HLDS	12C0-301
NPLC-BA	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTCH	12C0-301
BSP	12C0-301		

PIP SUMMARY

 Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray
(USGR)

(HSGR)
0 (GAPI) 15

HNGS Det.2 Resolution Degradation
Factor (RDF2)
0 (---) 10

HNGS Det.1 Resolution Degradation
Factor (RDF1)
0 (---) 10

HNGS Det.2 Gain Correction Factor
(GCF2)
0.9 (---) 1.1

HNGS Det.1 Gain Correction Factor
(GCF1)
0.9 (---) 1.1

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
(GAPI)
0 15

HLDS Caliper (LCAL)
(IN)
6 16

HNGS Borehole Potassium (HBHK)
(V/V)
-0.05 0.05

HNGS Det.2 Chi Squared (CHI2)
(---)
10 0

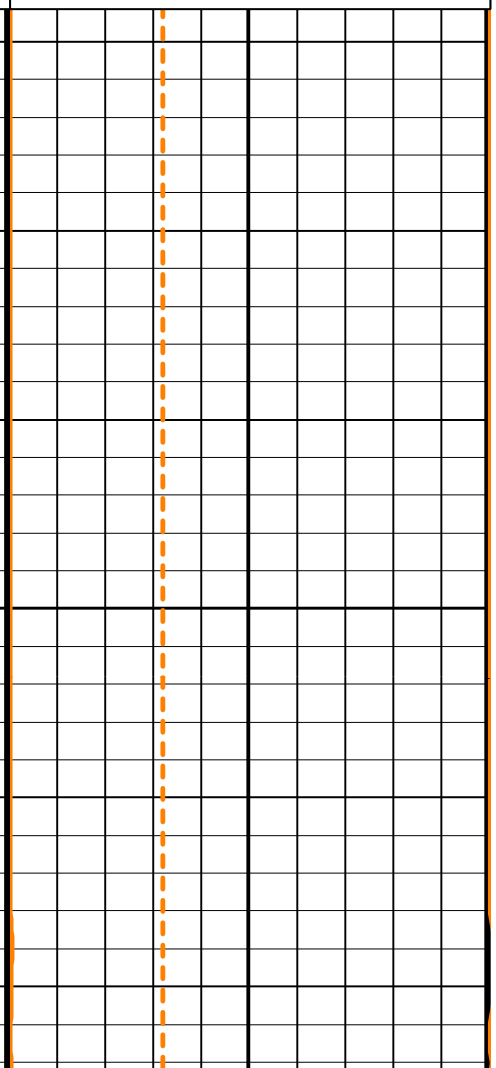
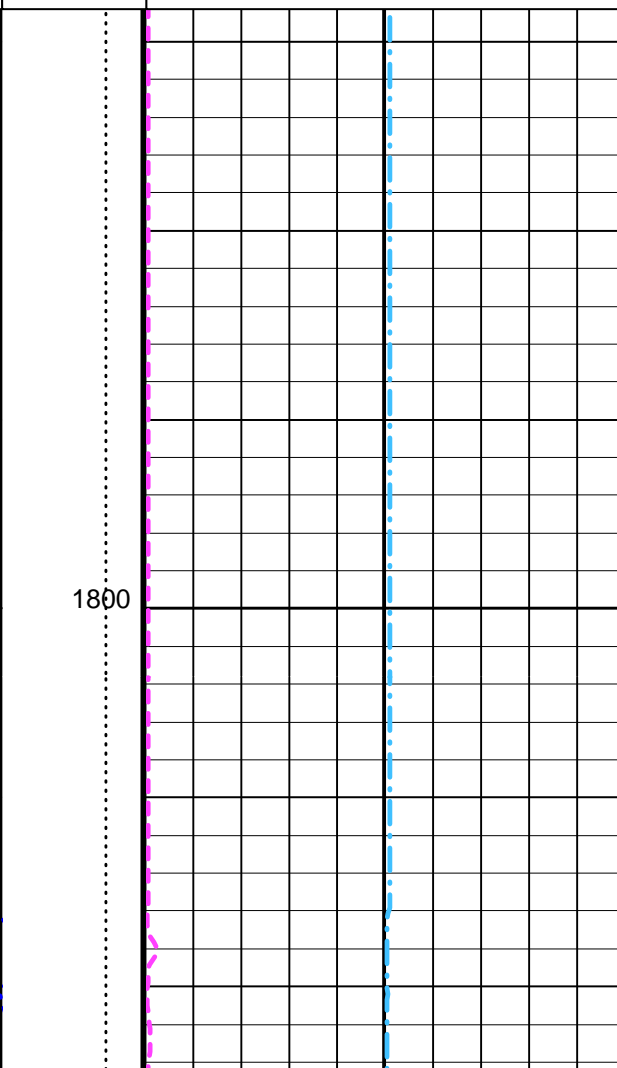
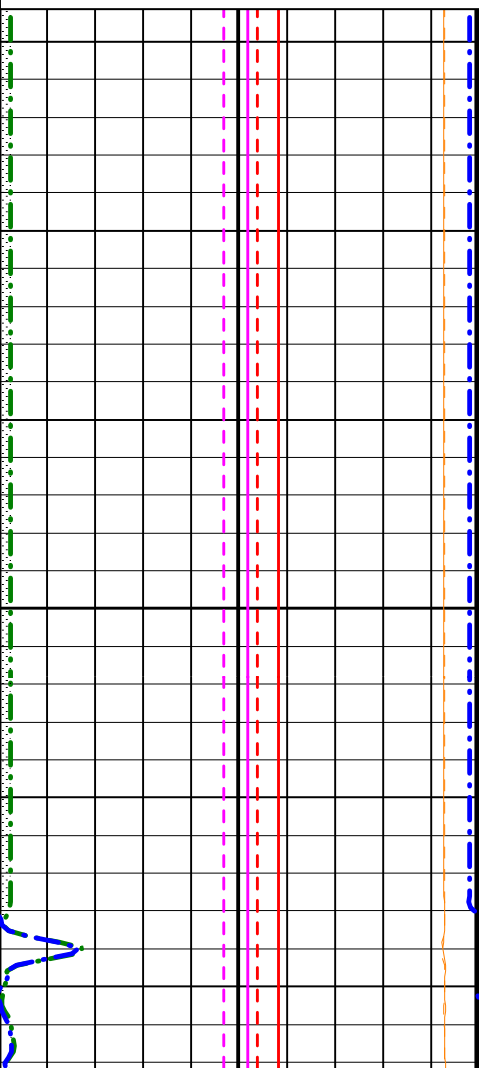
HNGS Uranium (HURA)
(PPM)
-10 30

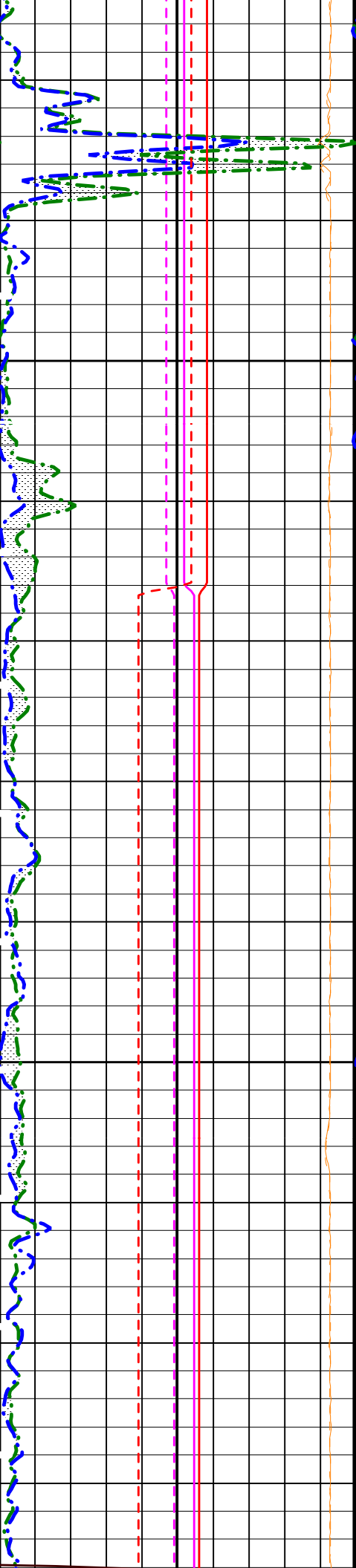
HNGS Det.1 Chi Squared (CHI1)
(---)
10 0

Tension
(TENS)
(LBF)
10000 0

HNGS Thorium (HTHO)
(PPM)
0 30

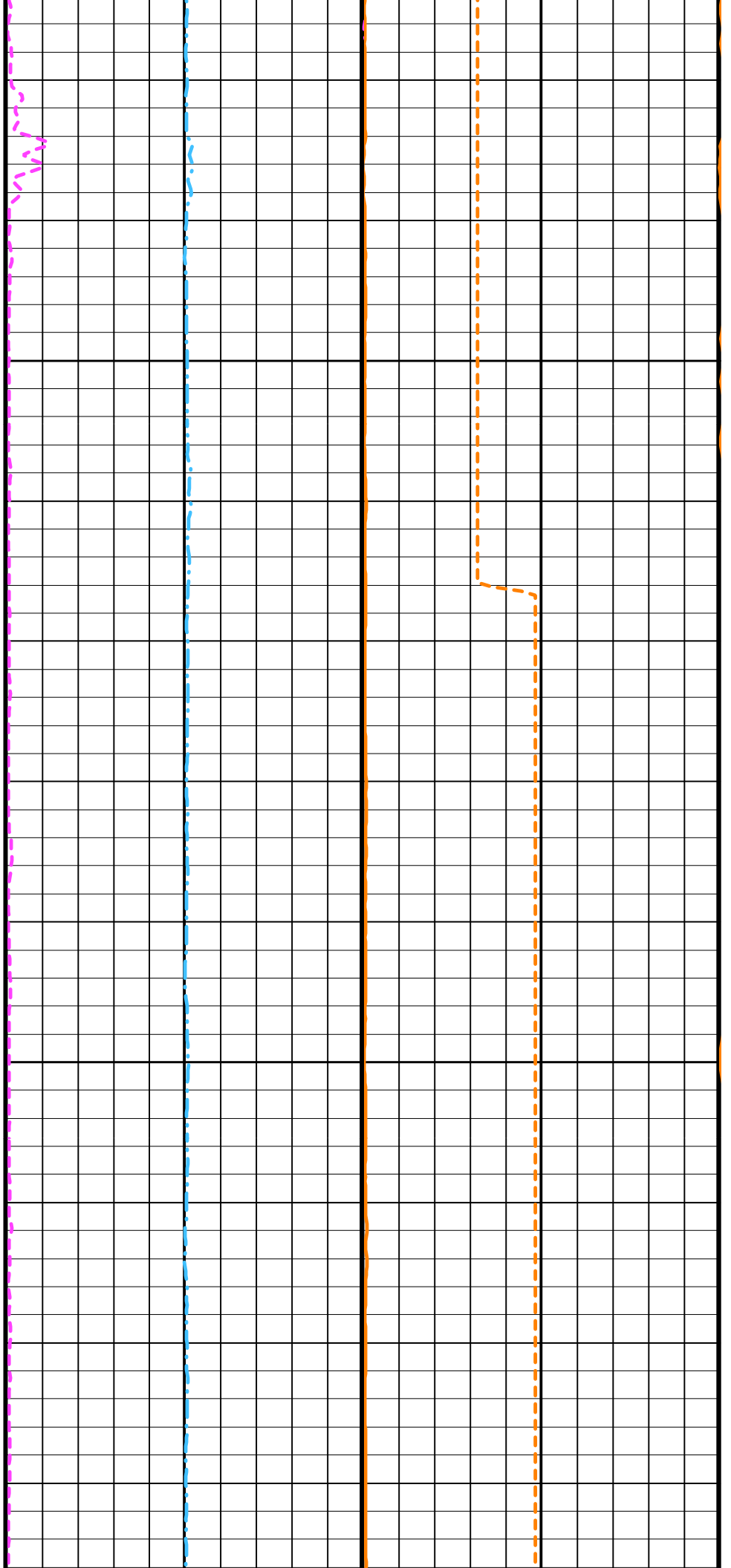
HNGS Potassium (HFK)
(V/V)
0 0.1

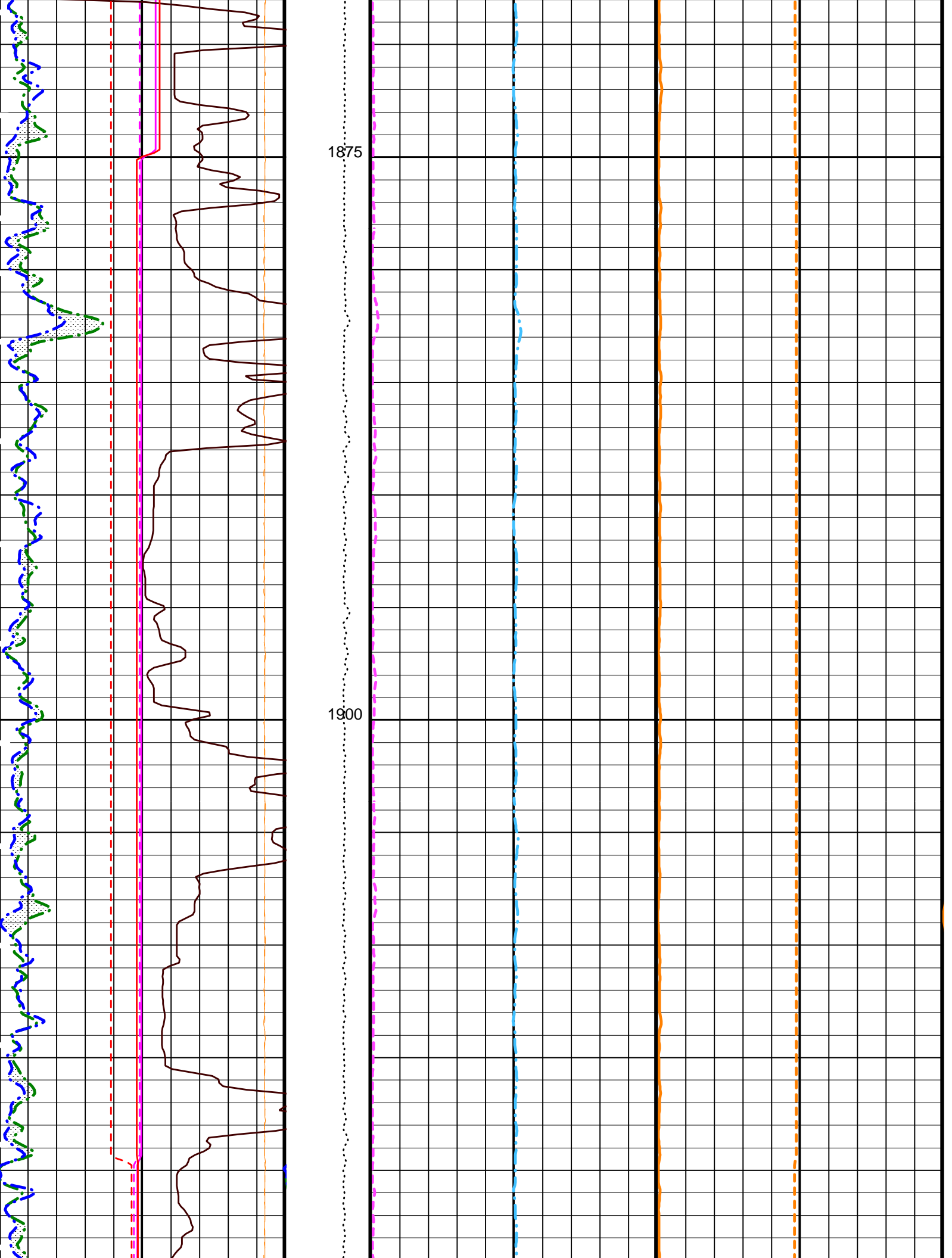


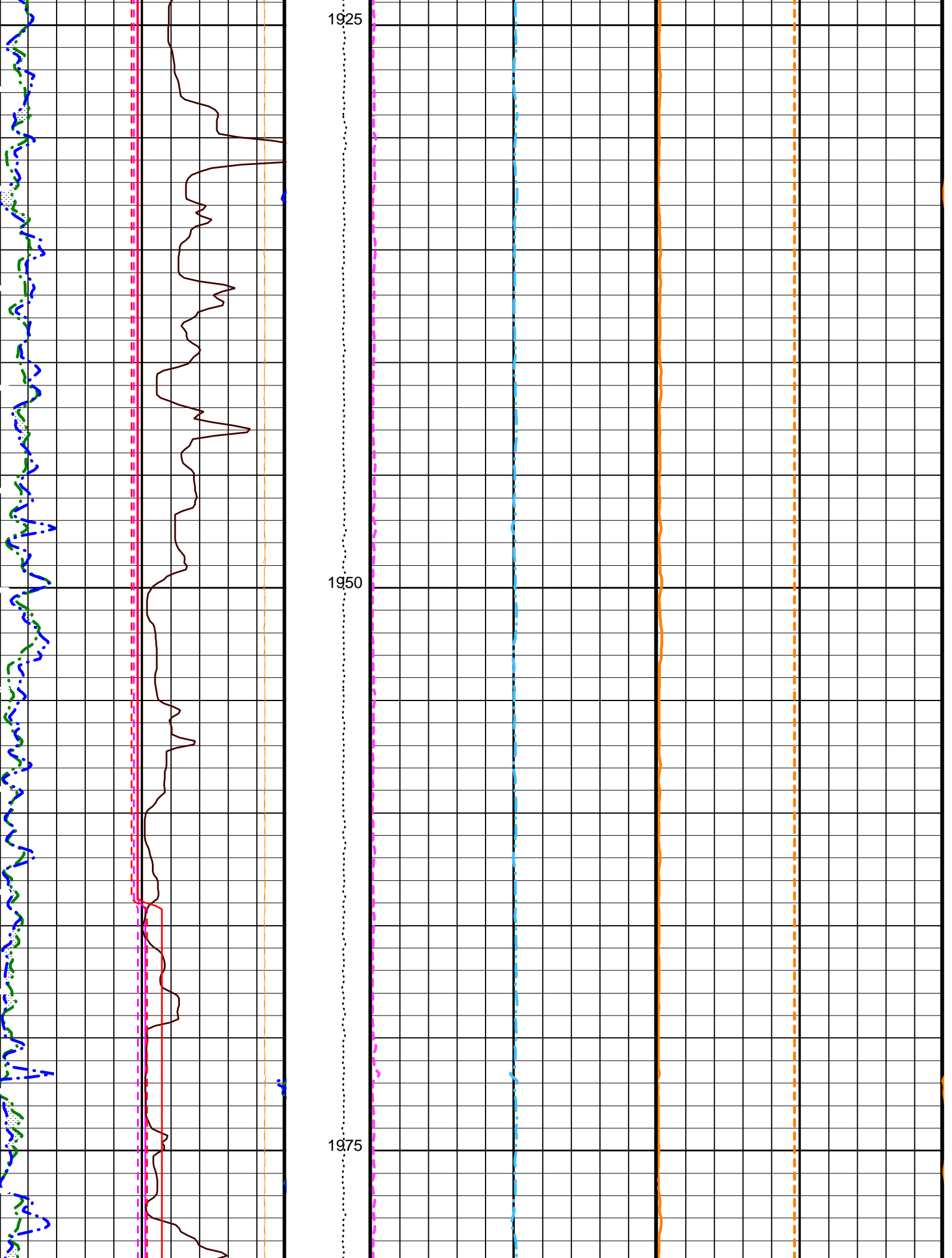


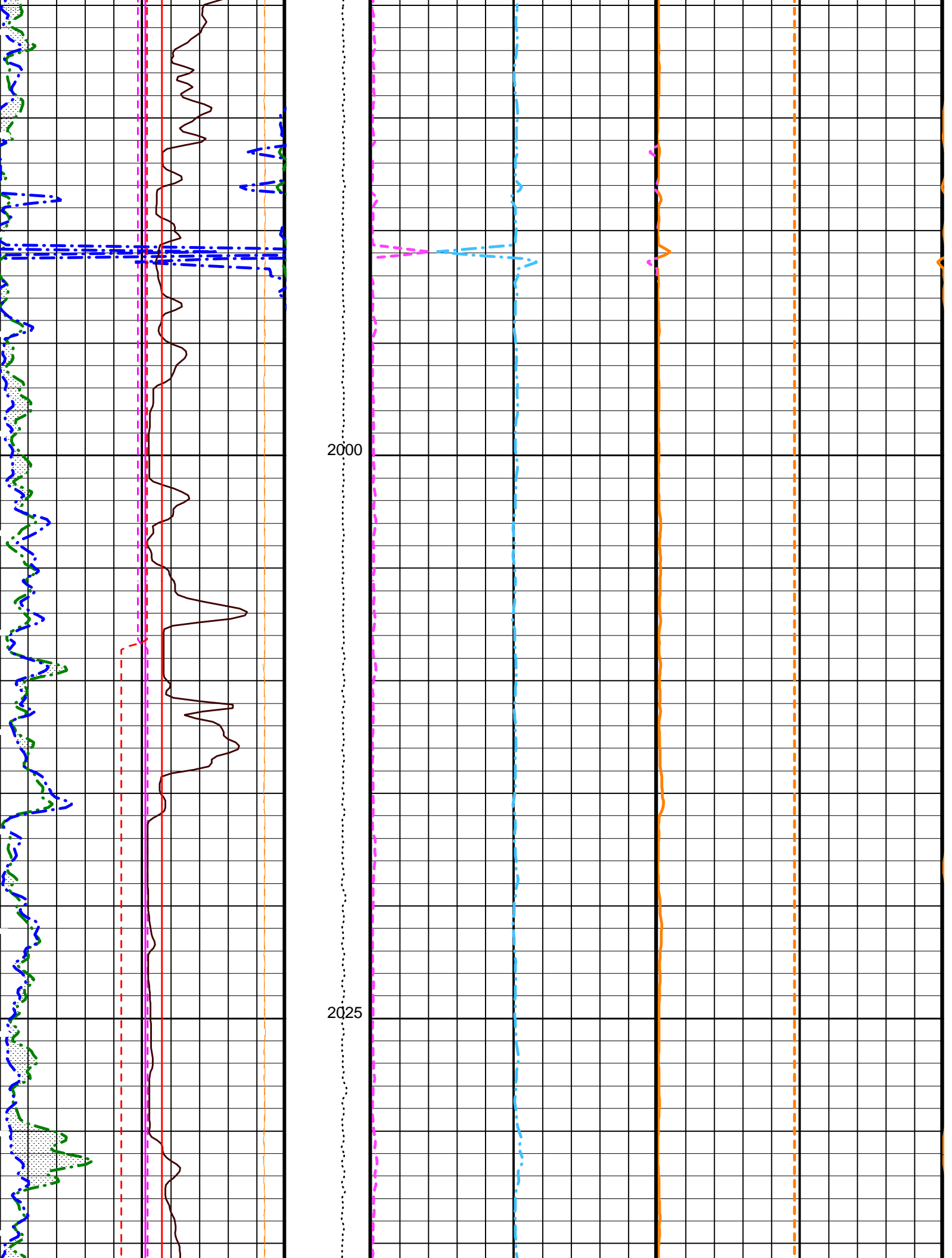
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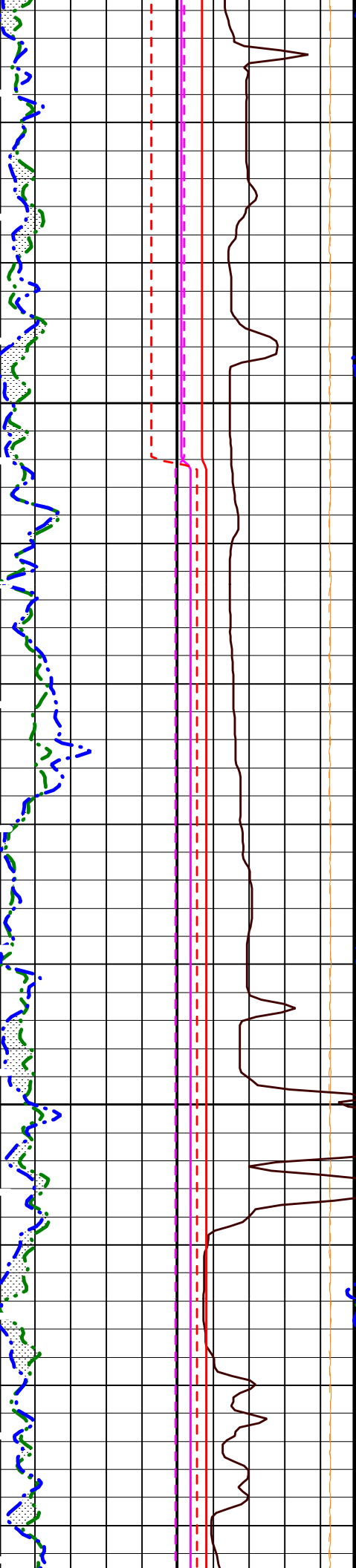
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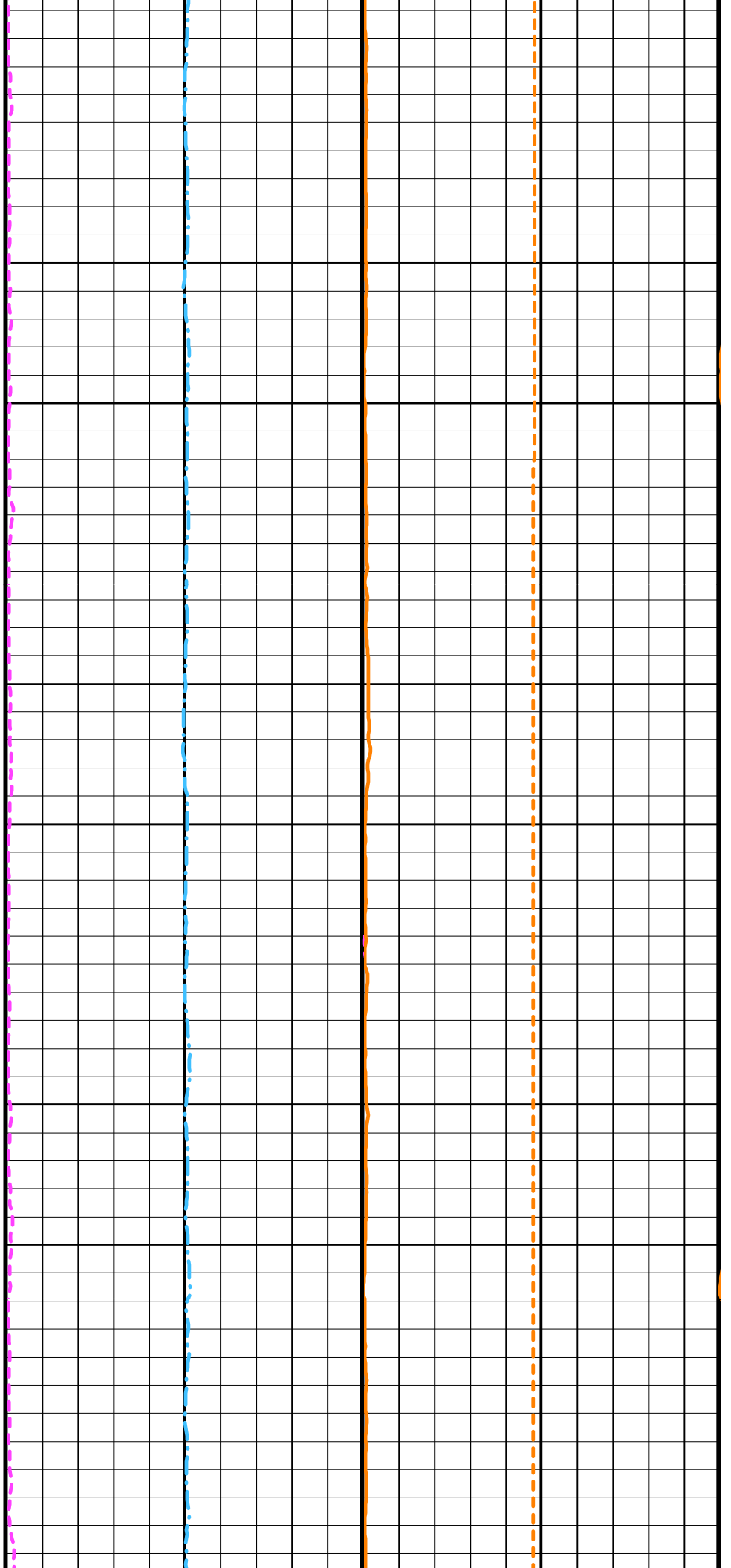


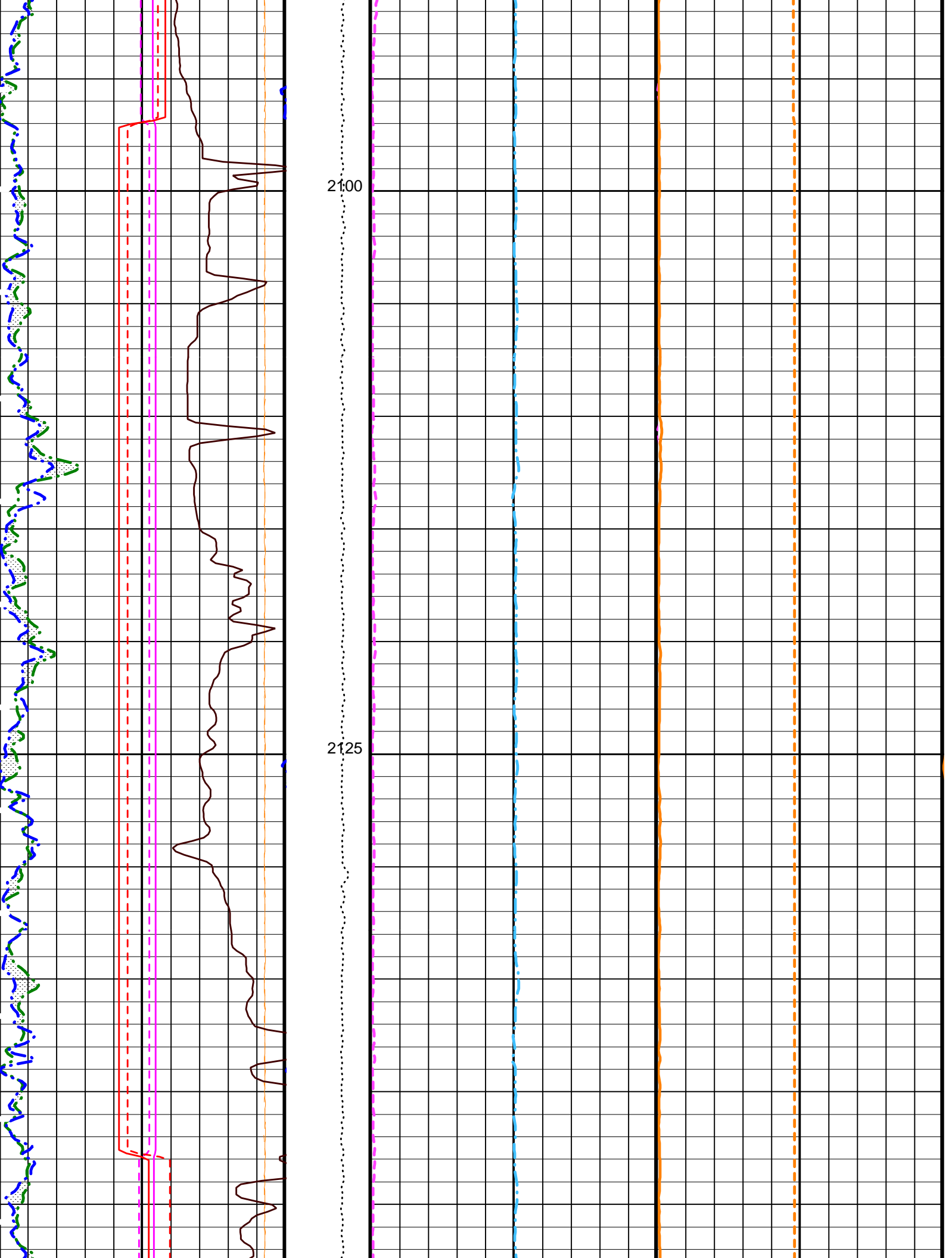


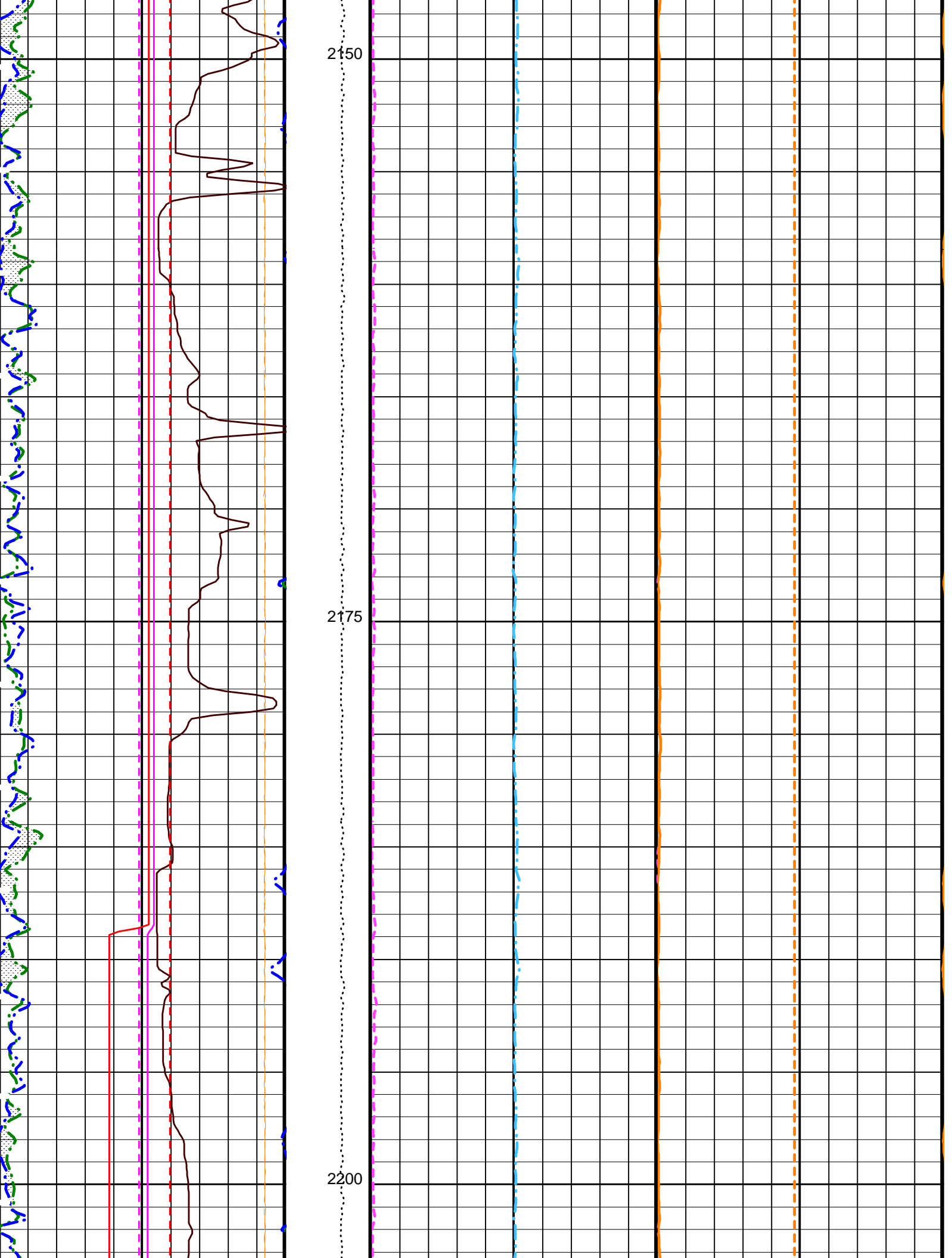


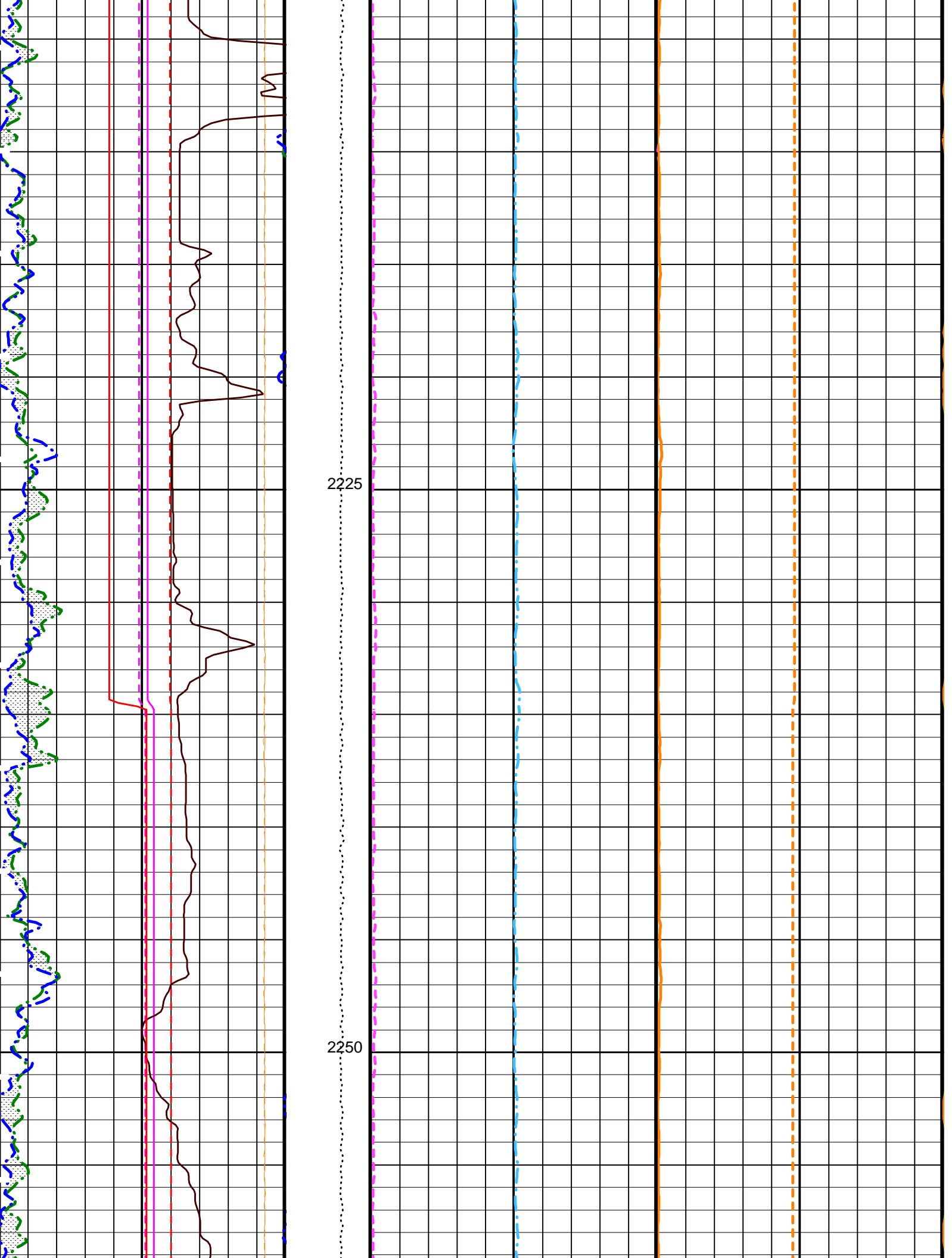
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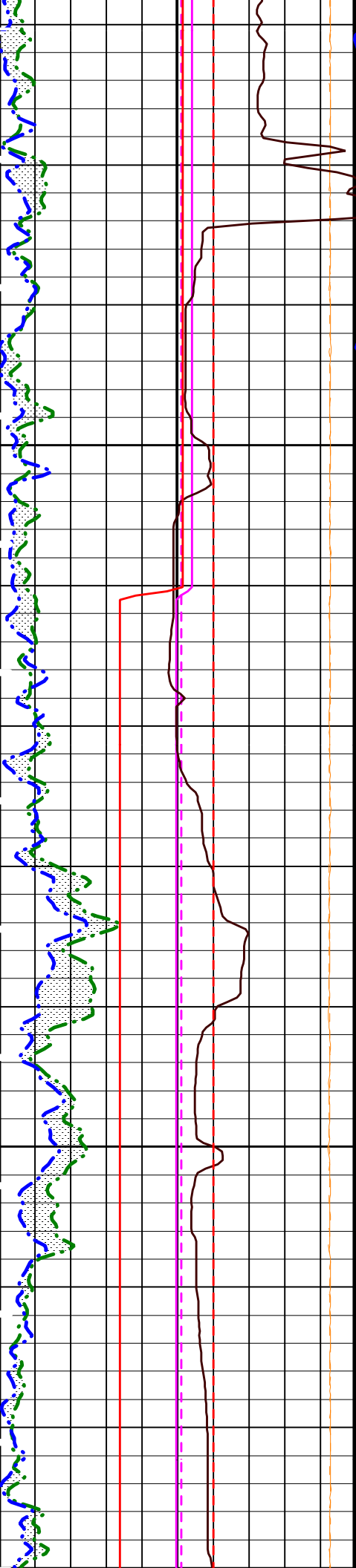
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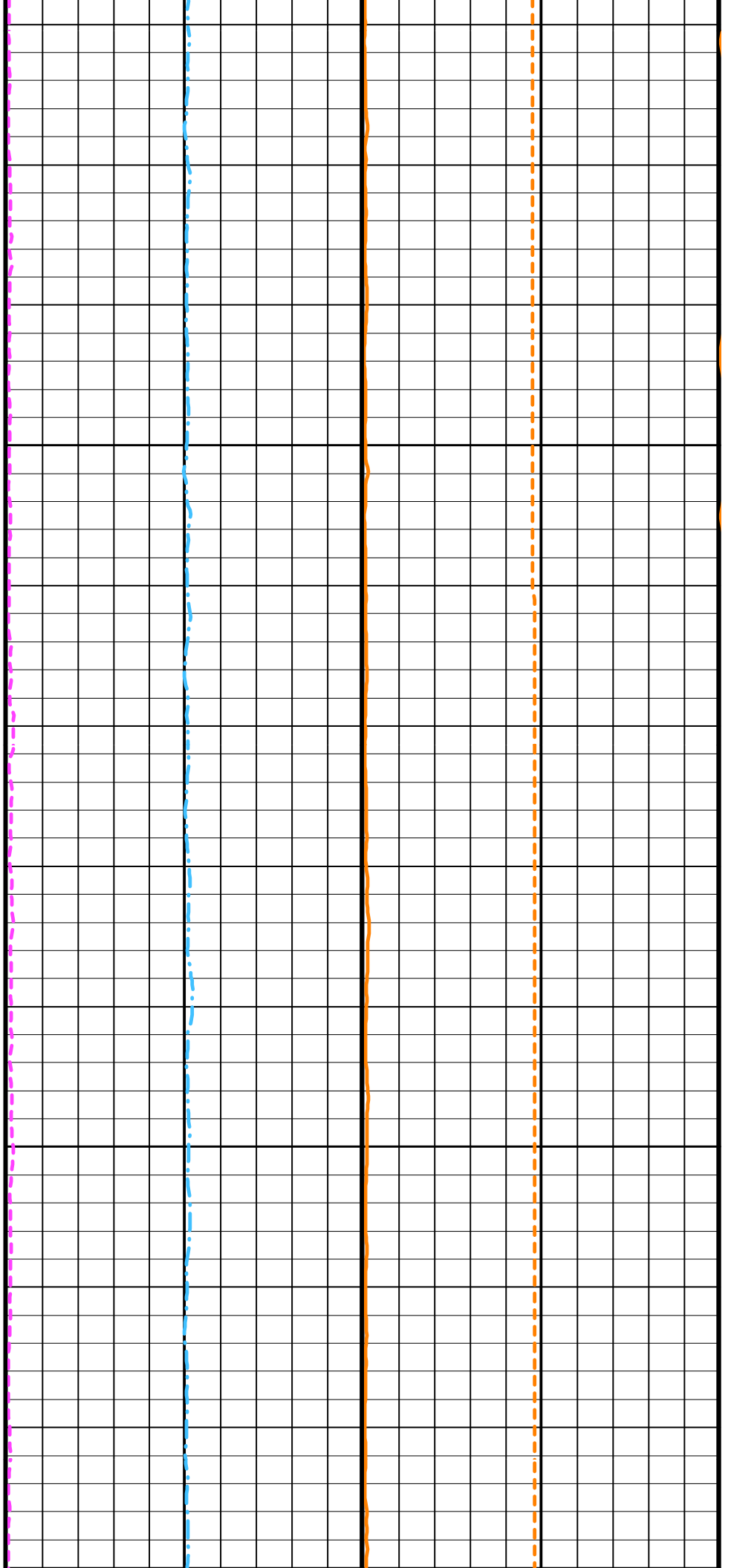


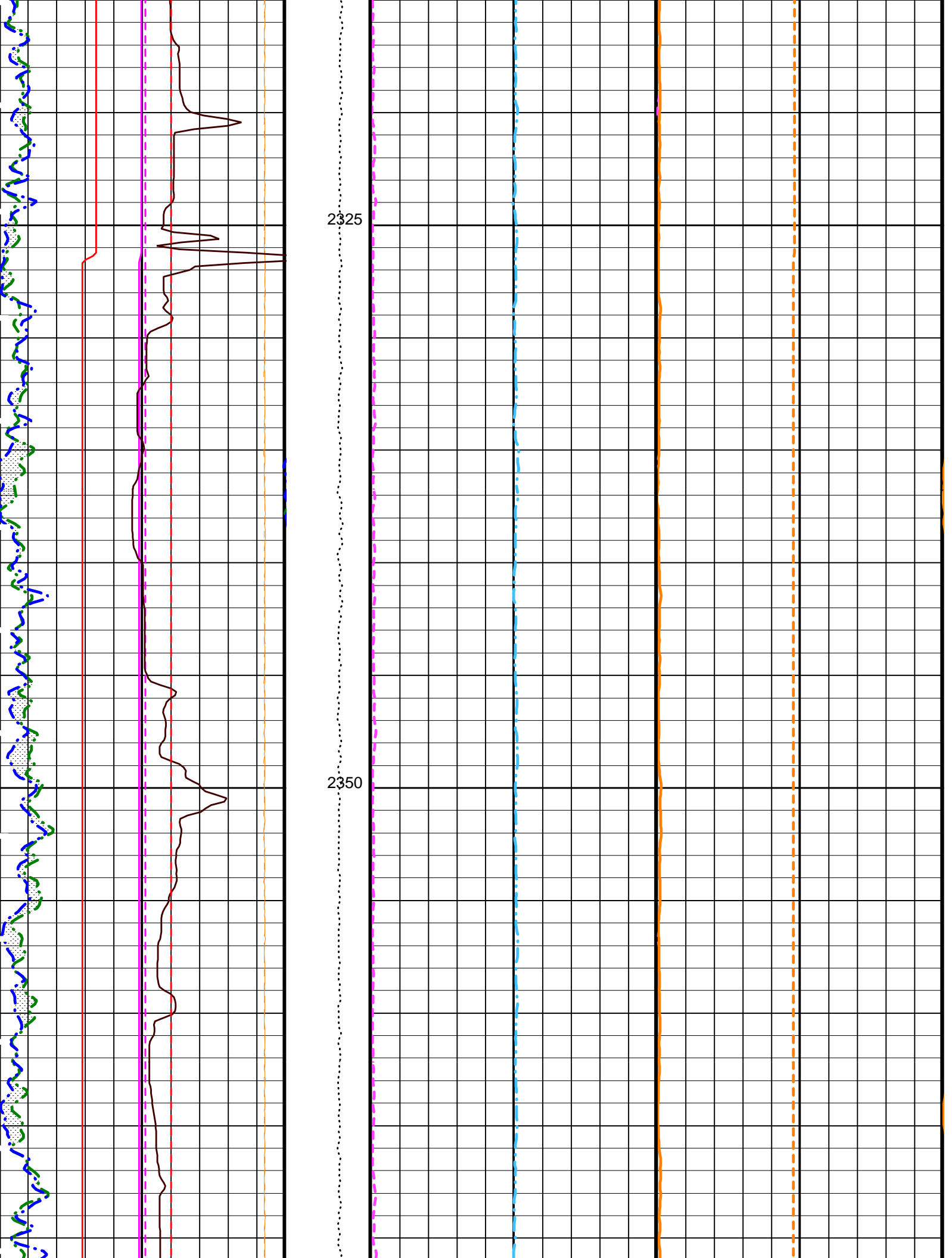


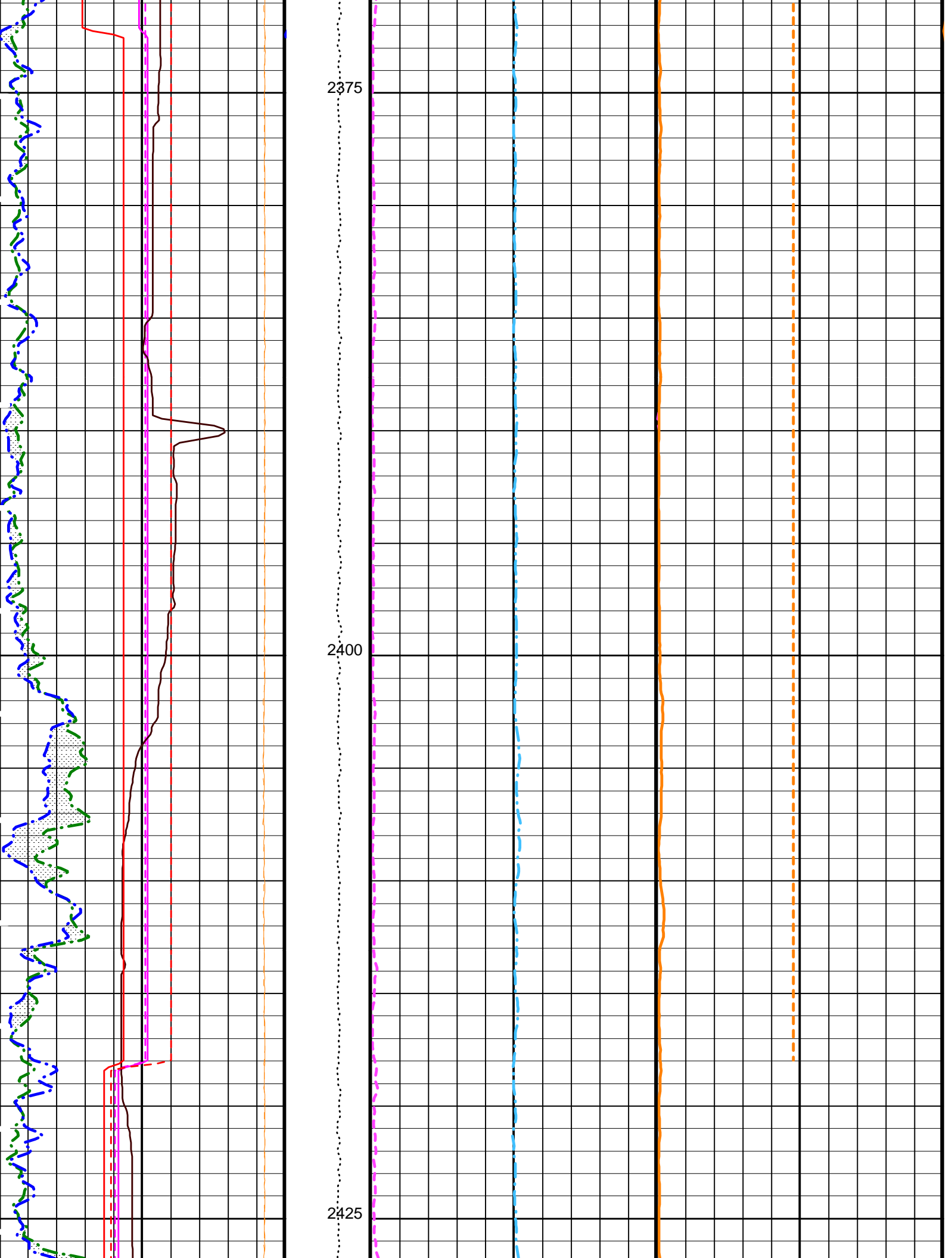


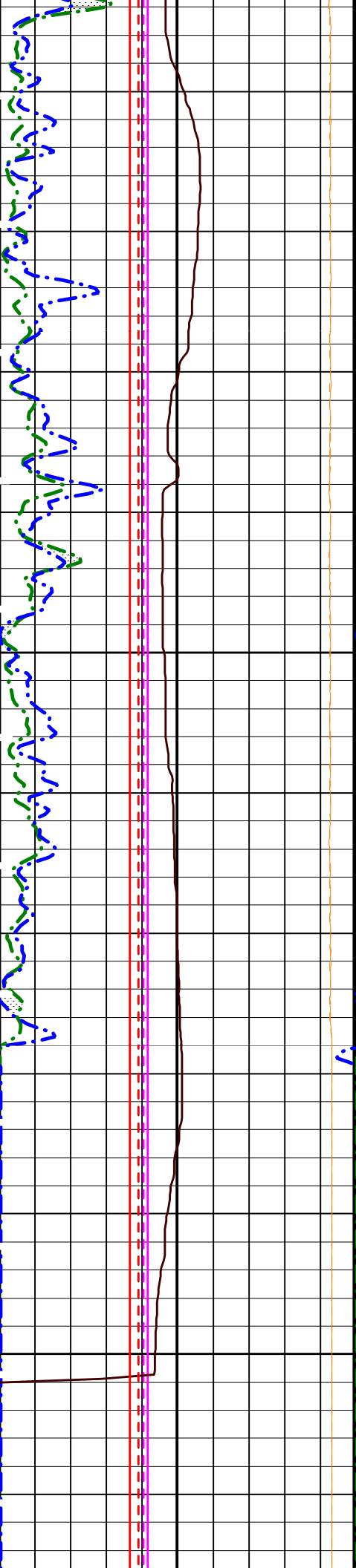
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2300



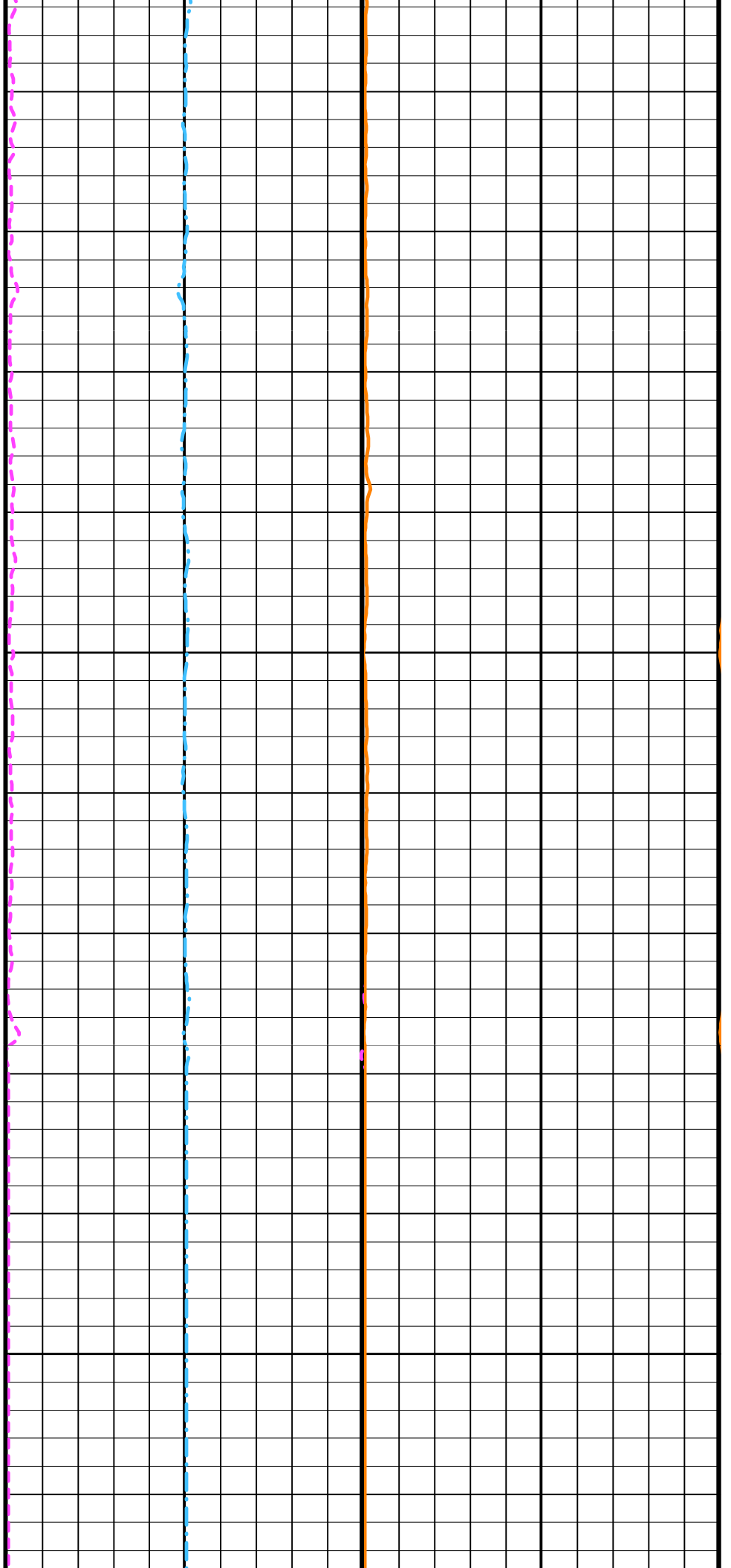


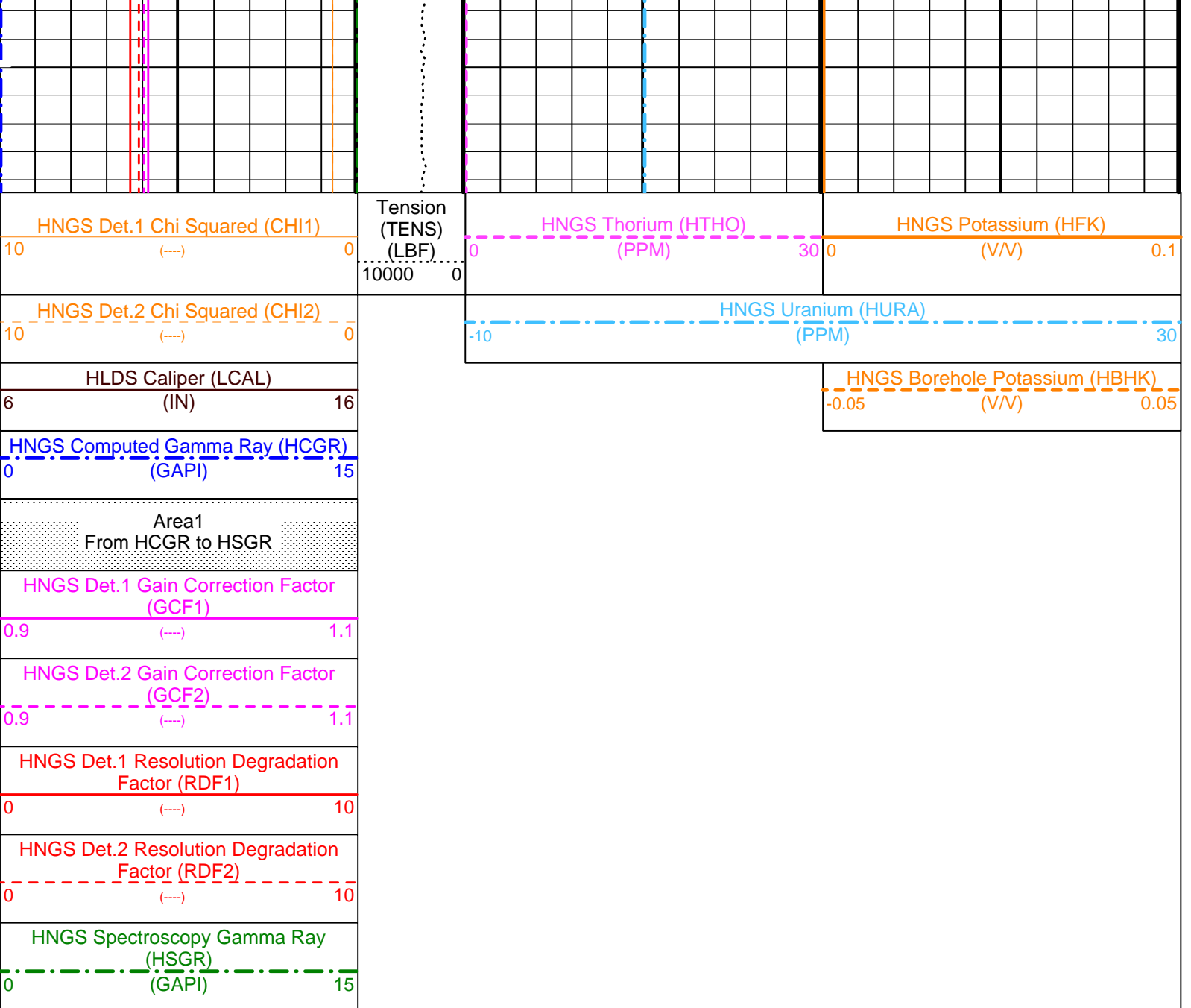




2450

2475





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
	APS-C: 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	1.000
BAR2	HNGS Detector 2 Barite Constant	1.000
BHK	HNGS Borehole Potassium Correction Concentration	0.000
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0.000 in
CSD2	Outer Casing Outer Diameter	0.000 in
CSW1	Inner Casing Weight	0.000 lbm/ft
CSW2	Outer Casing Weight	0.000 lbm/ft
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	0.000
HALF	HNGS Alpha Filter Length	60.000 in
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	NATU
HNPE	HNGS Processing Enable	YES
S1P1	HNGS Detector 1 Calibration Bismuth Count Rate	1.200 1/c

S2BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.300	1/s
SGRC	HNGS Detector 2 Calibration Bismuth Count Rate	1.300	1/s
TPOS	HNGS Standard Gamma-Ray Correction Flag	YES	
VBA1	Tool Position	ECCE	
VBA2	HNGS Detector 1 Variable Barite Factor Running Average	0.000	
	HNGS Detector 2 Variable Barite Factor Running Average	0.000	
System and Miscellaneous			
BS	Bit Size	9.875	in
DFD	Drilling Fluid Density	1.066	g/cm3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 12-Feb-2005 11:49

OP System Version: 12C0-301
MCM

DLTE	12C0-301	GPIT-A	12C0-301
DTAA	12C0-301	HLDS	12C0-301
NPLC-BA	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTCH	12C0-301
BSP	12C0-301		

Input DLIS Files

DEFAULT	DLL_LDL_APS_NGS_011LUP	FN:13	PRODUCER	31-Jan-2005 08:52	8167.5 FT	5853.0 FT
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REPEAT SECTION

MAXIS Field Log

Company: Lamont Doherty Well: IODP EXP 305 Site 1309D

Input DLIS Files

DEFAULT	DLL_LDL_APS_NGS_012LUP	FN:15	PRODUCER	31-Jan-2005 11:57	8175.0 FT	7663.5 FT
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OP System Version: 12C0-301
MCM

DLTE	12C0-301	GPIT-A	12C0-301
DTAA	12C0-301	HLDS	12C0-301
NPLC-BA	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTCH	12C0-301
BSP	12C0-301		

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	0	15
HNGS Det.2 Resolution Degradation Factor (RDF2)	0	10
HNGS Det.1 Resolution Degradation Factor (RDF1)	0	10
HNGS Det.2 Gain Correction Factor (GCF2)	0.9	1.1
HNGS Det.1 Gain Correction Factor (GCF1)		

0.9 (---) 1.1

Area1
From HCGR to HSGR

HNGS Computed Gamma Ray (HCGR)
0 (GAPI) 15

HLDS Caliper (LCAL)
6 (IN) 16

HNGS Det.2 Chi Squared (CHI2)
10 (---) 0

HNGS Det.1 Chi Squared (CHI1)
10 (---) 0

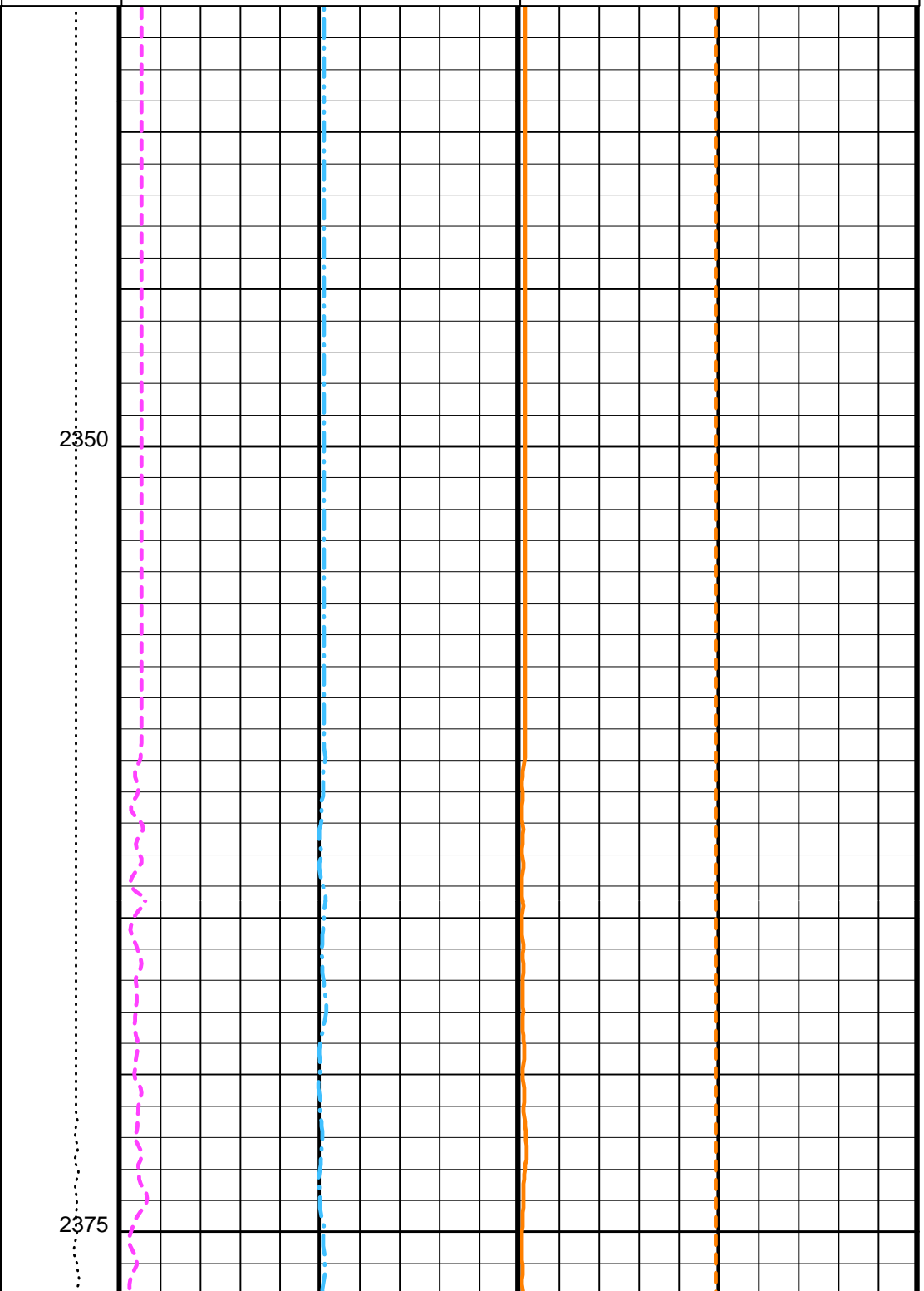
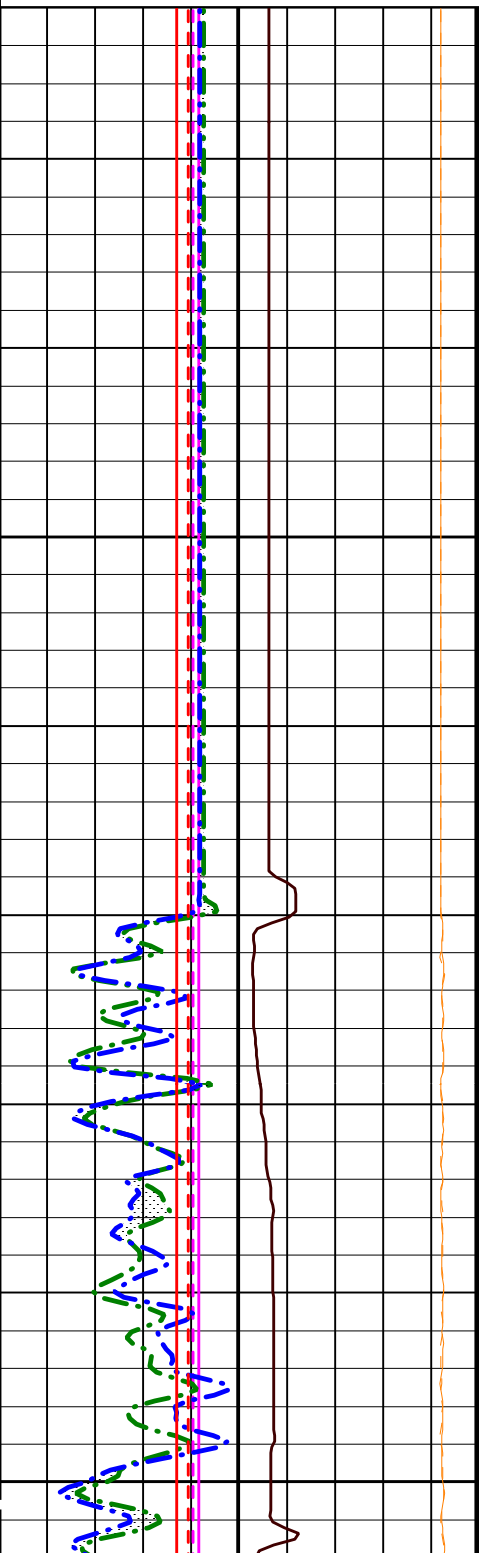
Tension
(TENS)
(LBF)
10000 0

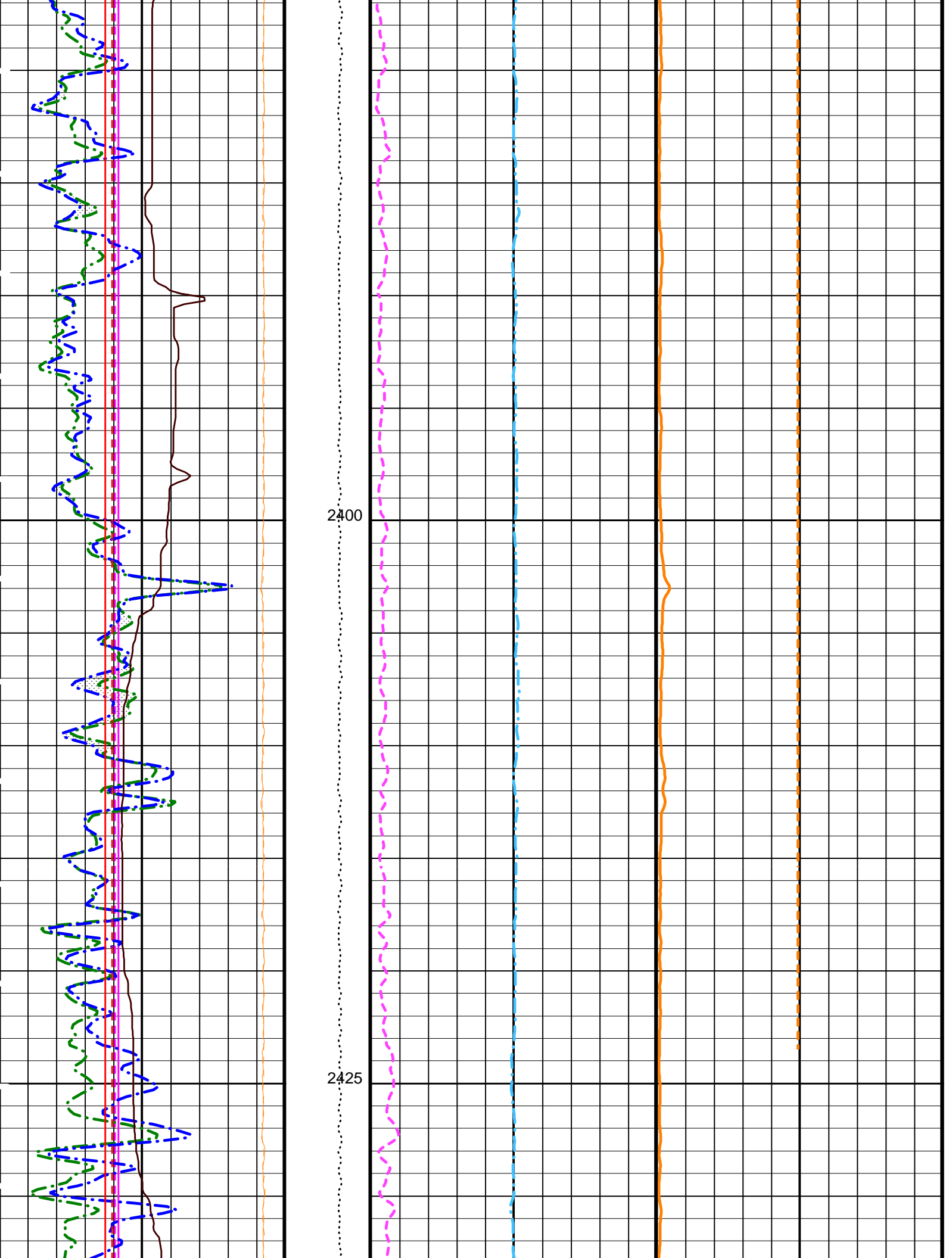
HNGS Borehole Potassium (HBHK)
-0.05 (V/V) 0.05

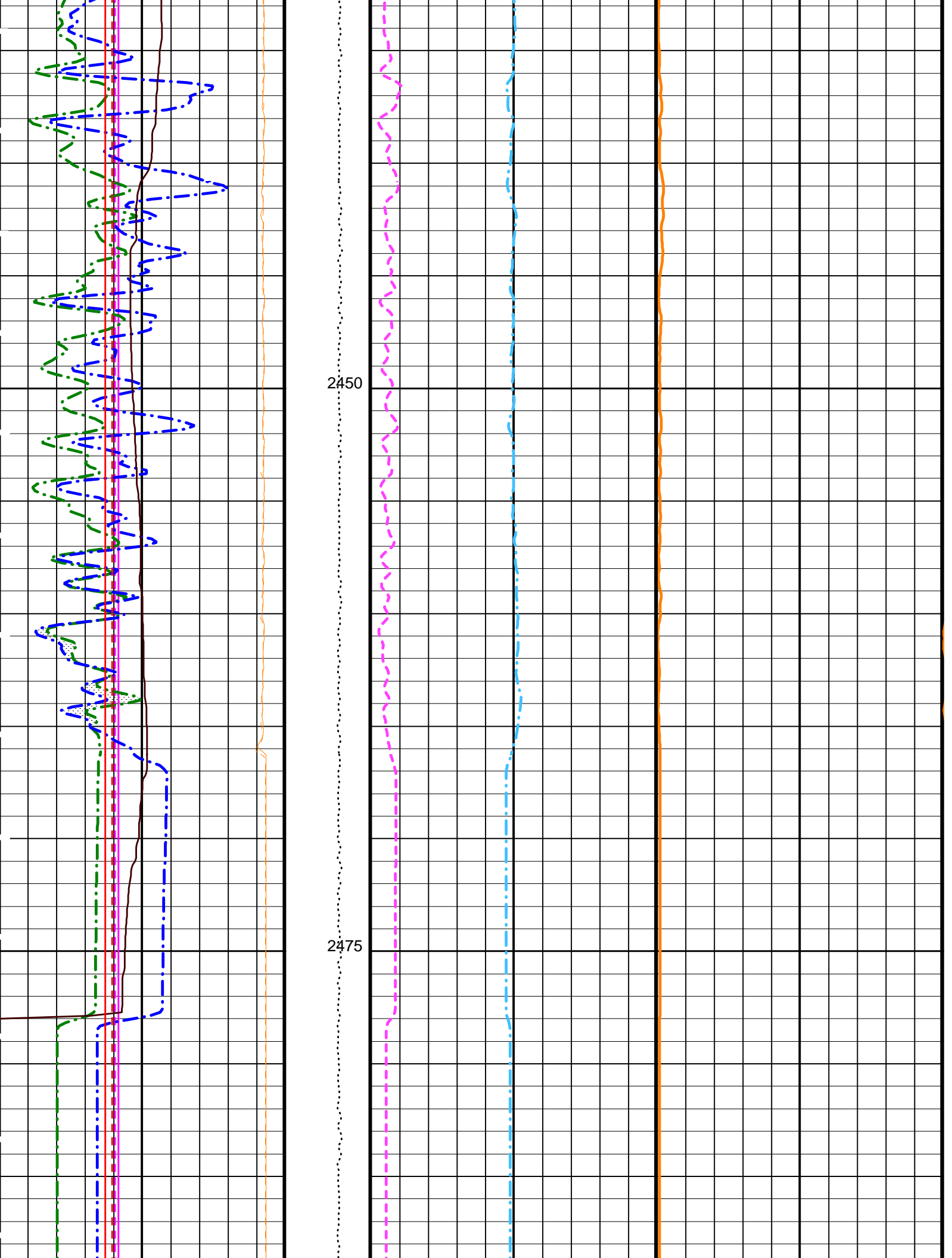
HNGS Uranium (HURA)
-10 (PPM) 30

HNGS Thorium (HTHO)
0 (PPM) 30

HNGS Potassium (HFK)
0 (V/V) 0.1







HNGS Det.1 Chi Squared (CHI1) 10 (----) 0	Tension (TENS) (LBF) 10000 0	HNGS Thorium (HTHO) 0 (PPM) 30	HNGS Potassium (HFK) 0 (V/V) 0.1
HNGS Det.2 Chi Squared (CHI2) 10 (----) 0		HNGS Uranium (HURA) -10 (PPM) 30	HNGS Borehole Potassium (HBHK) -0.05 (V/V) 0.05
HLDS Caliper (LCAL) 6 (IN) 16			
HNGS Computed Gamma Ray (HCGR) 0 (GAPI) 15			
Area1 From HCGR to HSGR			
HNGS Det.1 Gain Correction Factor (GCF1) 0.9 (----) 1.1			
HNGS Det.2 Gain Correction Factor (GCF2) 0.9 (----) 1.1			
HNGS Det.1 Resolution Degradation Factor (RDF1) 0 (----) 10			
HNGS Det.2 Resolution Degradation Factor (RDF2) 0 (----) 10			
HNGS Spectroscopy Gamma Ray (HSGR) 0 (GAPI) 15			

PIP SUMMARY

▶ Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
APS-C: 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	1.000
BAR2	HNGS Detector 2 Barite Constant	1.000
BHK	HNGS Borehole Potassium Correction Concentration	0.000
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0.000 in
CSD2	Outer Casing Outer Diameter	0.000 in
CSW1	Inner Casing Weight	0.000 lbm/ft
CSW2	Outer Casing Weight	0.000 lbm/ft
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	-0.004
HALF	HNGS Alpha Filter Length	60.000 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	1.300 1/s
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.300 1/s
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	2.211
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.105

System and Miscellaneous

BS
DFD

Bit Size
Drilling Fluid Density

9.875 in
1.066 g/cm3

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 12-Feb-2005 11:51

OP System Version: 12C0-301
MCM

DLTE	12C0-301	GPIT-A	12C0-301
DTAA	12C0-301	HLDS	12C0-301
NPLC-BA	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTCH	12C0-301
BSP	12C0-301		

Input DLIS Files

DEFAULT	DLL_LDL_APS_NGS_012LUP	FN:15	PRODUCER	31-Jan-2005 11:57	8175.0 FT	7663.5 FT
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Company: Lamont Doherty



Well: IODP EXP 305 Site U1309D

Field: Atlantis Massif

Rig: Joides Resolution

Ocean: Atlantic Ocean

Hostile Natural Gamma Ray