



DISCLAIMER

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OTHER SERVICES1

OS1: DEBI-T
OS2: MTT

REMARKS: RUN NUMBER 1

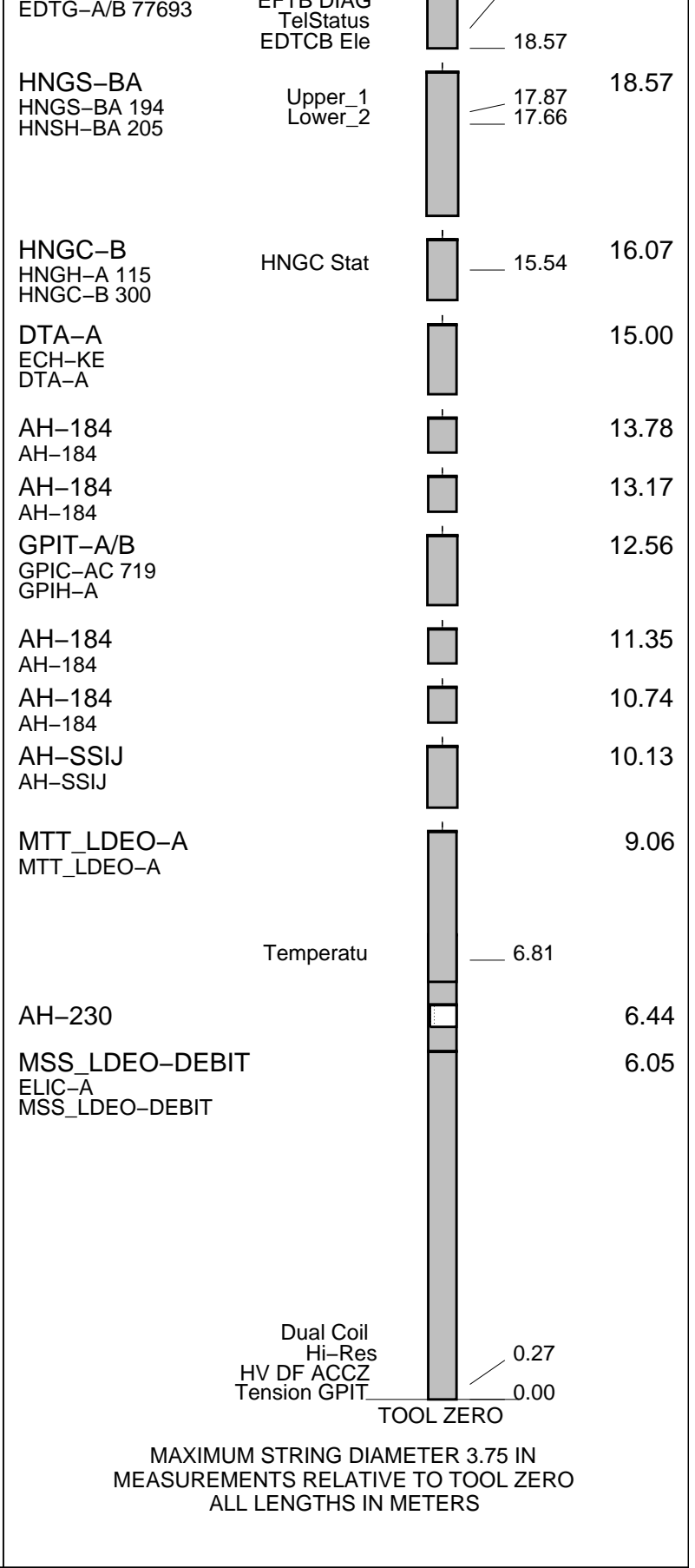
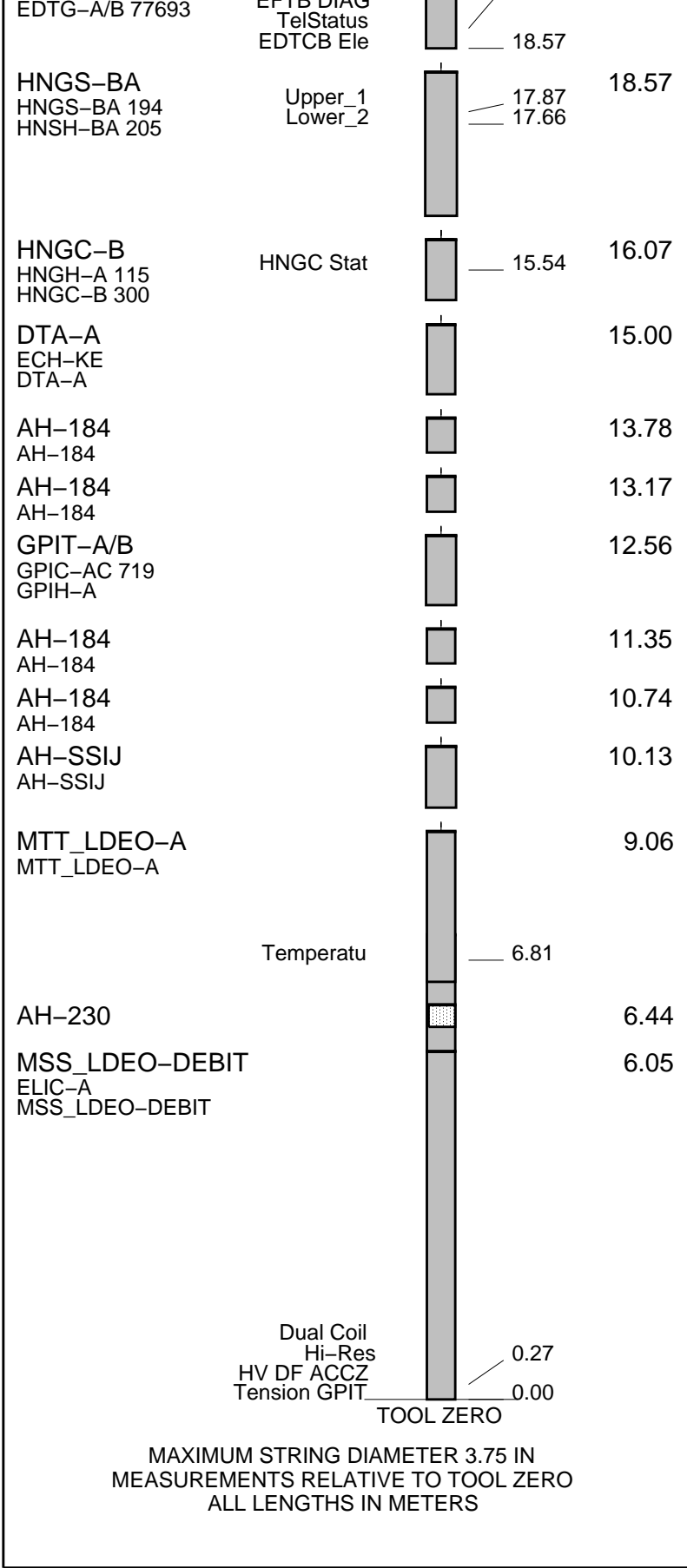
Hole 395A was drilled and had a CORK installed in 1997 during Leg 174. This is a re-cork.
Logs conducted to run experimental microbiology tool "DEBI-T" from JPL / USC.
This hole was a re-cork; the primary cork was removed prior to logging along with a 600m thermistor string; this log is the first trip in hole after removal of the cork.
GR recorded from above sea-bed for tie-in with original logs recorded in 1997.
DEBI-T is a bottom-only tool that uses infrared laser to detect biomater flourescence, recorded to memory.
Logs were recorded with zero at the drill floor and then played back for presentation with zero at the sea bed.
Logging was conducted in two passes due to hole obstruction at approximately 4670mbrf.
Upper section (Run #1) is from sea bed down to hang-up depth, ~4670mbrf or 176mbsb.
Lower section was logged after moving pipe past the obstruction to serve as conduit for tools.
Lower section (Run #2) is from sea bed down to max planned depth of 5094mbrf or 600mbrf.
Pipe depth was 4548mbrf for Run #1; it was moved to 4690mbrf for Run #2.
The tools were run at a speed of approximately 900 ft/hr for optimum data quality on Run #1 and the first passes of Run #2.
Run #2 Down Pass #2 was done at 1200 ft/hr; Up Pass #2 at 1800 ft/hr to determine the impact of higher speed on data quality.

Table with columns for RUN 1 and RUN 2, including SERVICE ORDER #, PROGRAM VERSION, FLUID LEVEL, LOGGED INTERVAL, START, and STOP.

EQUIPMENT DESCRIPTION

Table for SURFACE EQUIPMENT, comparing RUN 1 and RUN 2 with details like GSR-U 616008 and WITM (EDTS)-A.

Table for DOWNHOLE EQUIPMENT, comparing RUN 1 and RUN 2 with details like LEH-MT, EDTC-B, EDTH-B 8528, and EDTC-B 8529, including depth measurements and sensor types.



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

Kelly Bushing Elevation

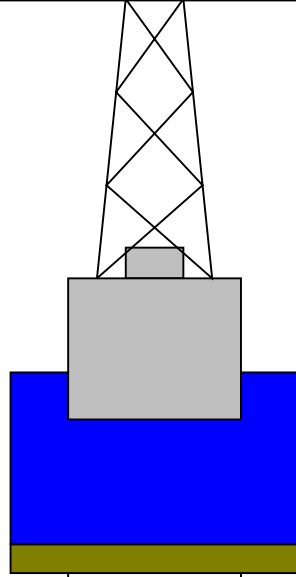
Derrick Floor Elevation

Mean Sea Level

11.0

11.0

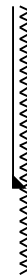
0.0



0.0

7.000

Mean Sea Level



4484.0

4534.0

7.000

Borehole Segment

Bit Depth

4610.0

10.750

Casing Shoe

5090.0

11.750

Total Depth - Driller



## Run #2 Up Pass #2 (Lower Section)

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 336, Site 395A

### Input DLIS Files

DEFAULT	MSS_LDEO_MTT_NGS_032LUP	FN:39	PRODUCER	25-Sep-2011 02:20	5093.2 M	4472.0 M
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### Output DLIS Files

DEFAULT	MSS_LDEO_MTT_NGS_053PUP	FN:59	PRODUCER	30-Sep-2011 10:03	605.8 M	-15.1 M
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### OP System Version: 19C0-187

MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

PIP SUMMARY

Time Mark Every 60 S

<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	25
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(----)	10
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(----)	10
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(----)	1.1
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(----)	1.1

Area1  
From HCGR to HSGR

<b>HNGS Computed Gamma Ray (HCGR)</b>		
0	(GAPI)	25

6	Caliper (BS) (IN)	16
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6	Bit Size (BS) (IN)	16
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-0.05	HNGS Borehole Potassium (HBHK) (V/V)	0.05
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10	HNGS Det.2 Chi Squared (CHI2) (----)	0
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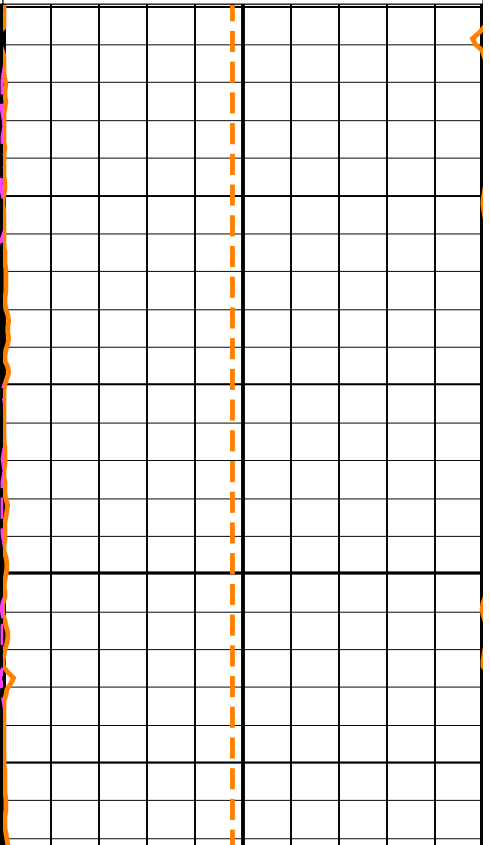
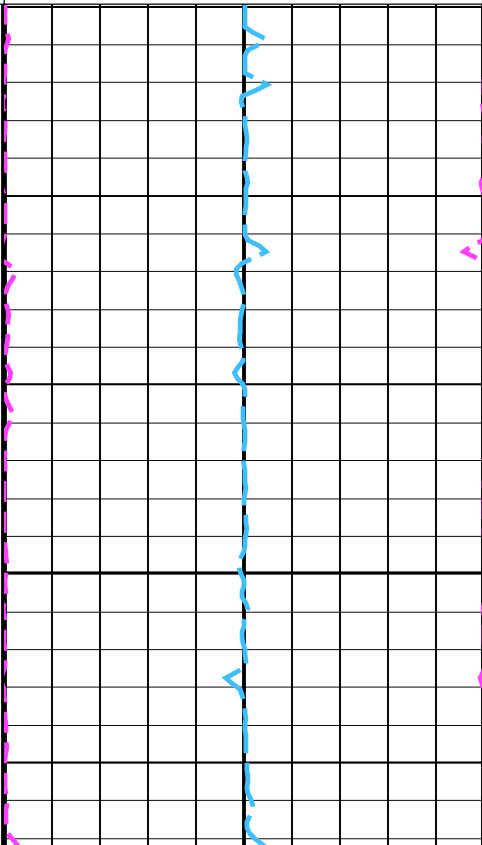
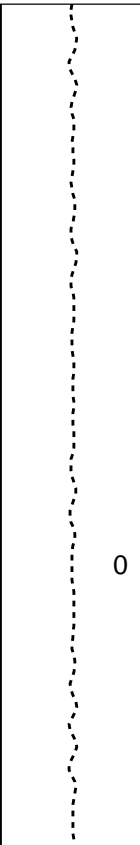
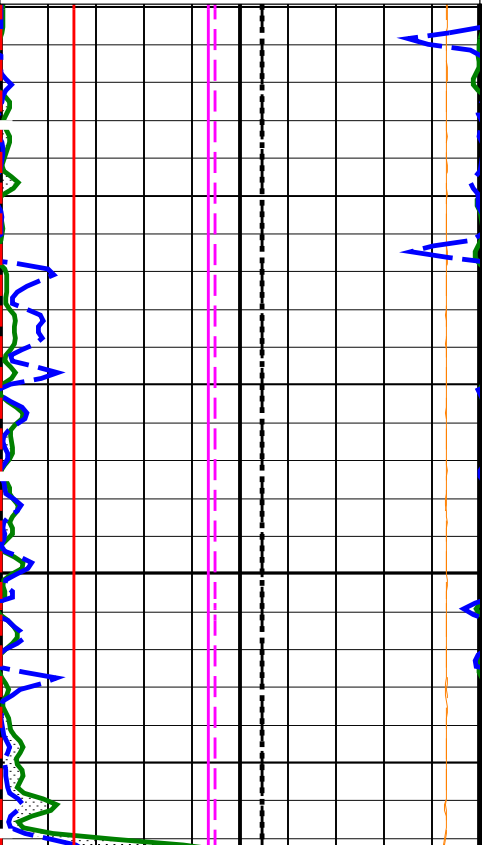
-10	HNGS Uranium (HURA) (PPM)	30
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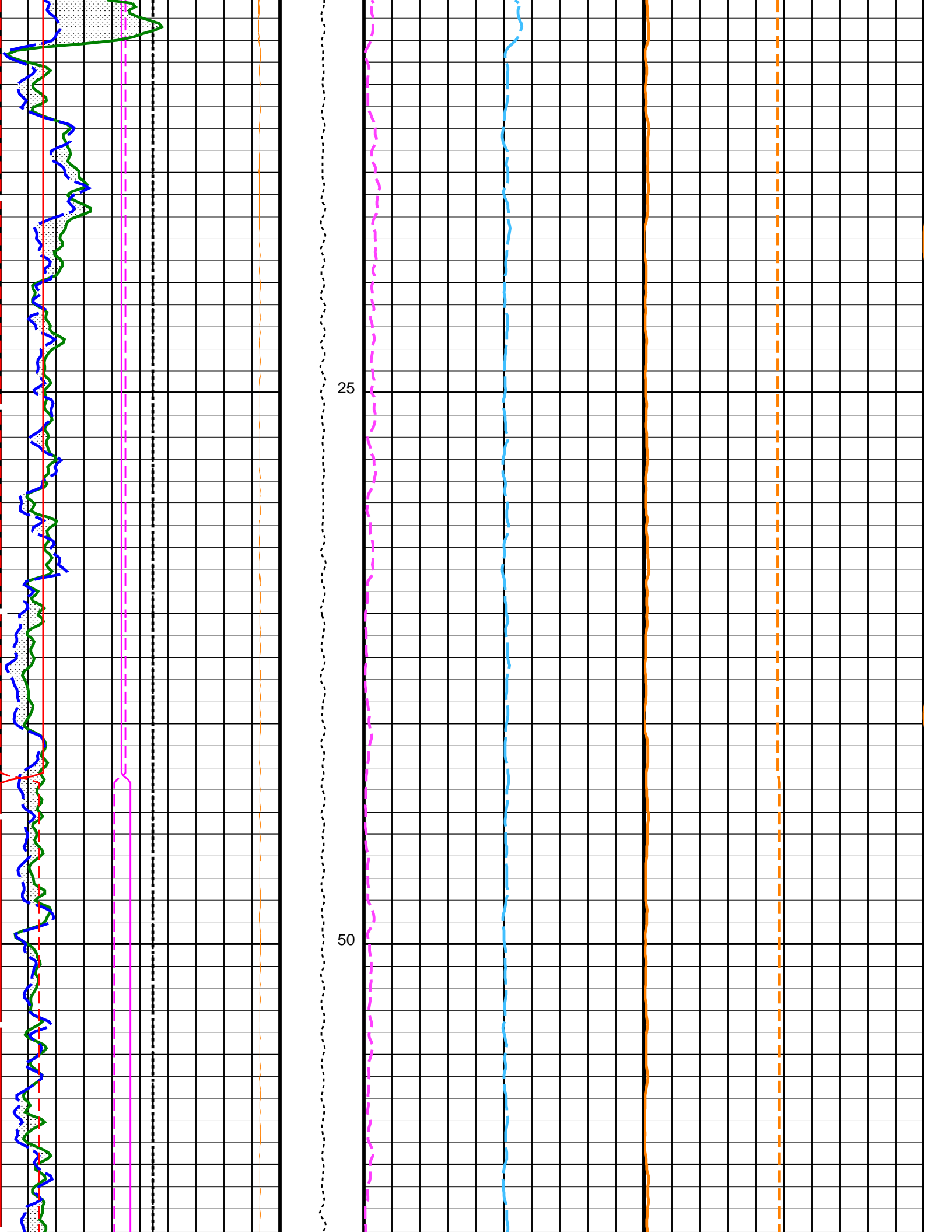
10	HNGS Det.1 Chi Squared (CHI1) (----)	0
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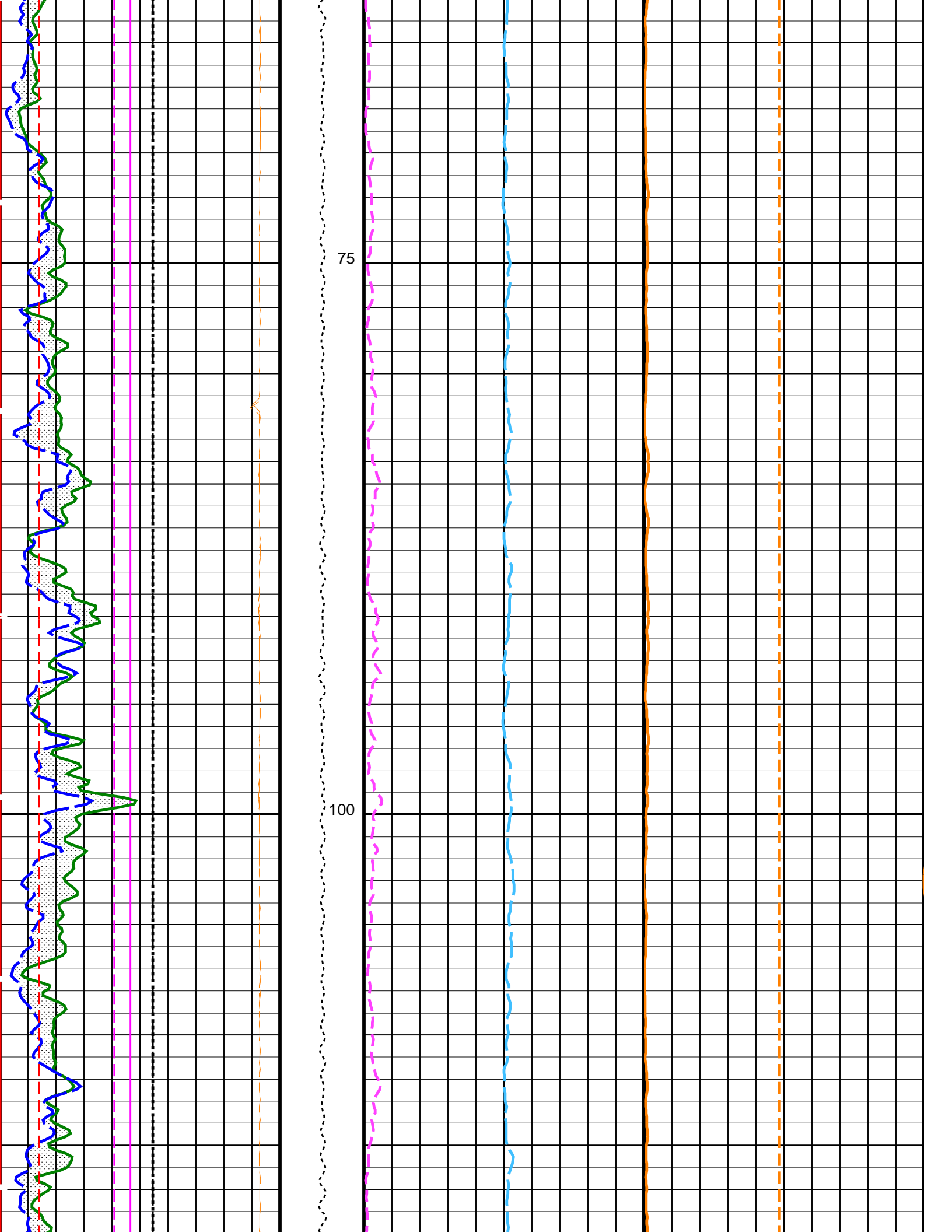
0	HNGS Thorium (HTHO) (PPM)	30
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0	HNGS Potassium (HFK) (V/V)	0.1
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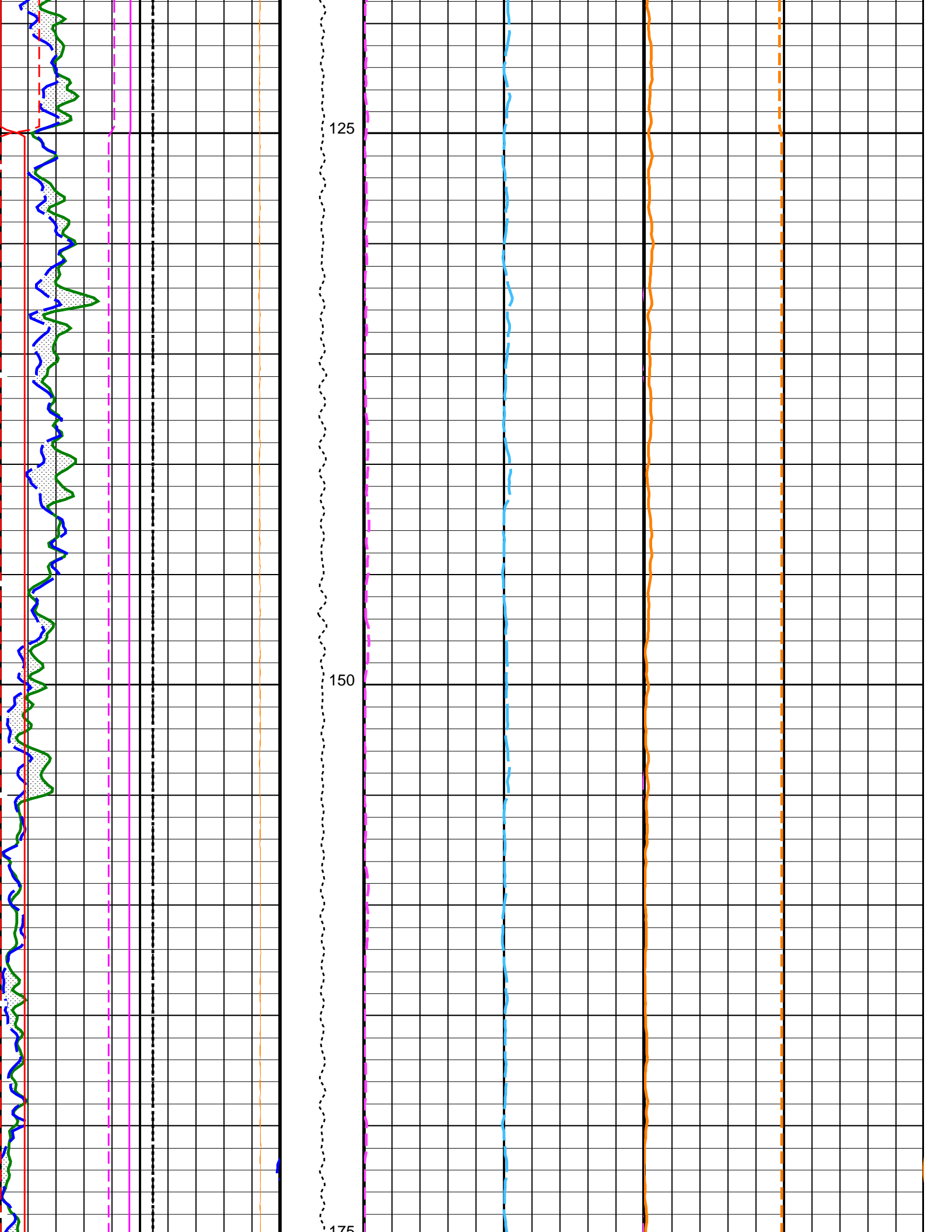
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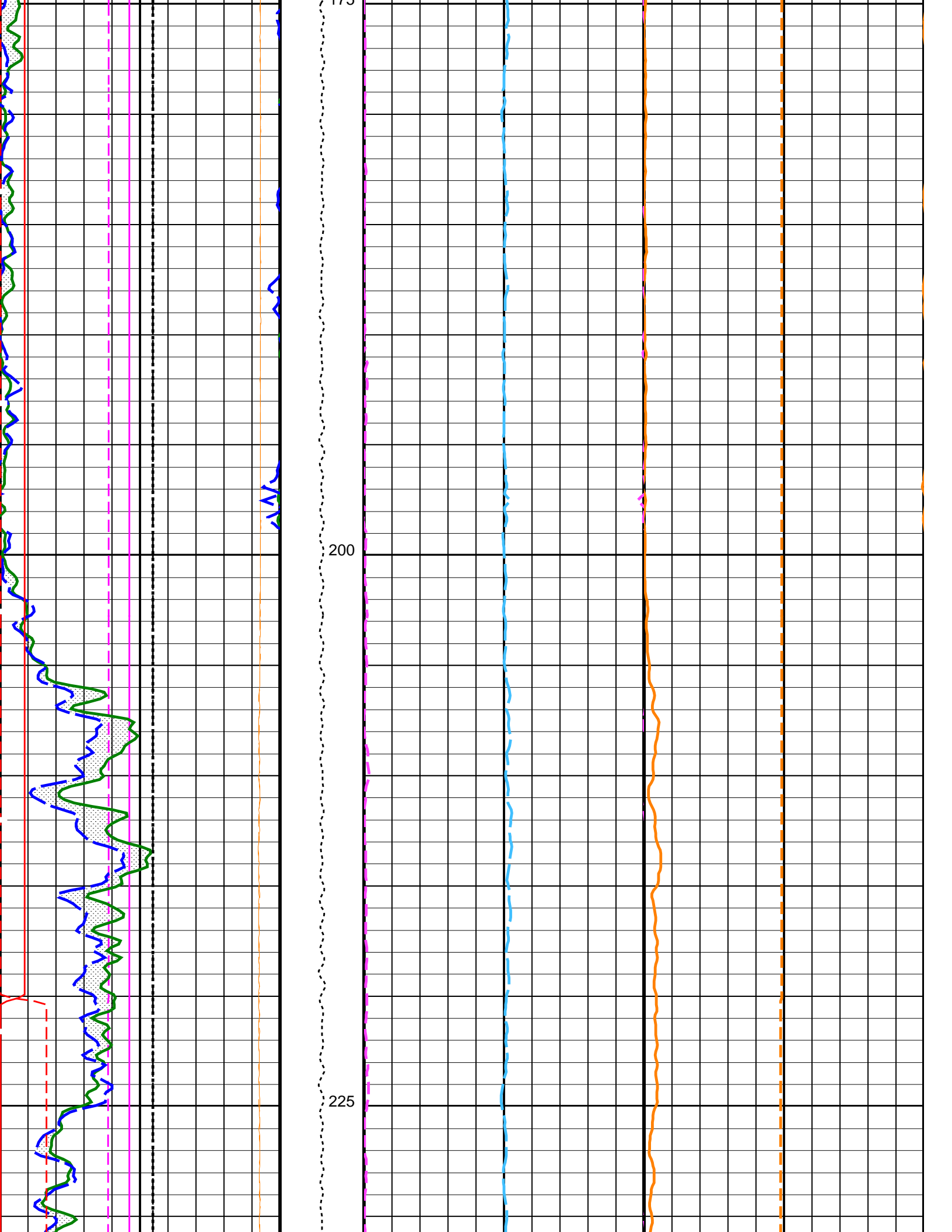


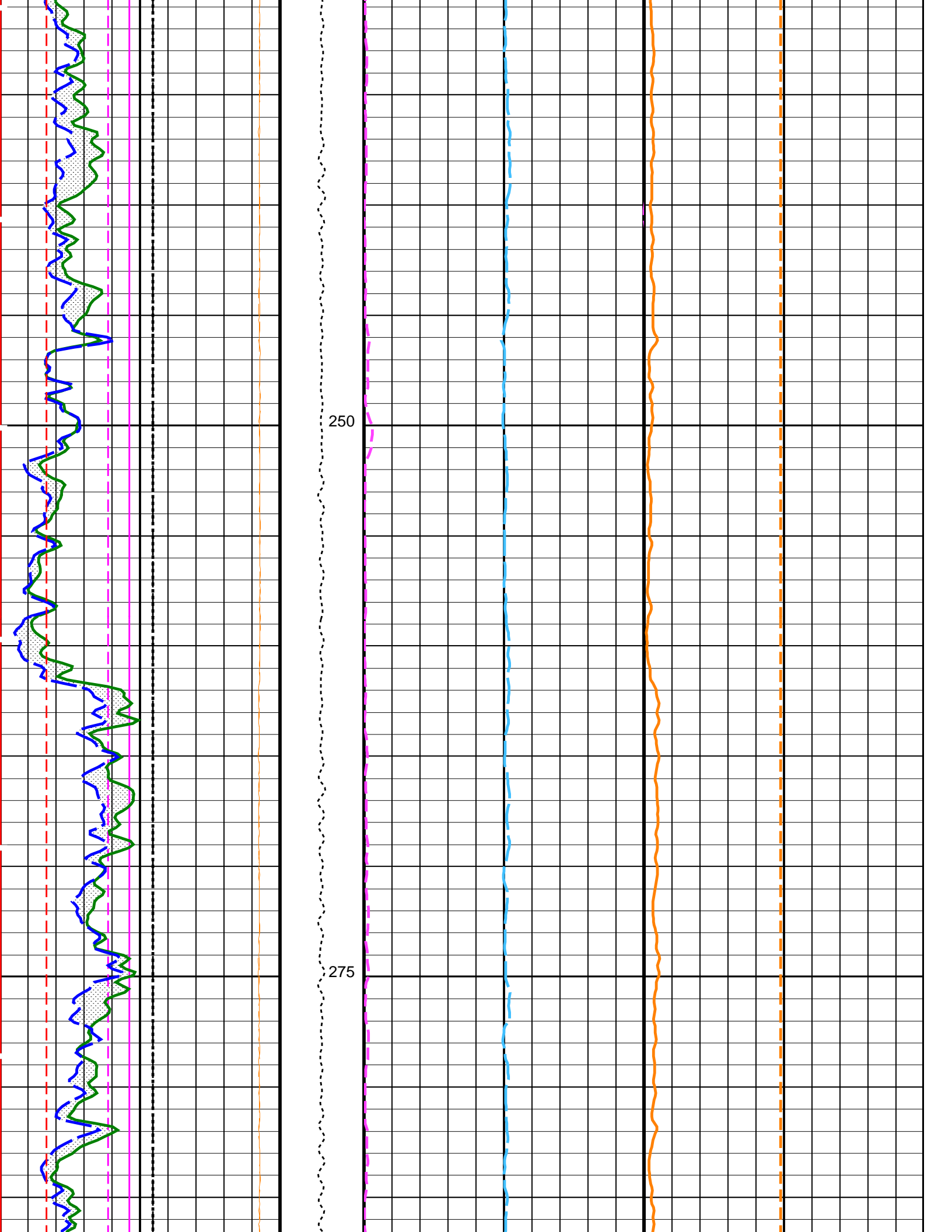


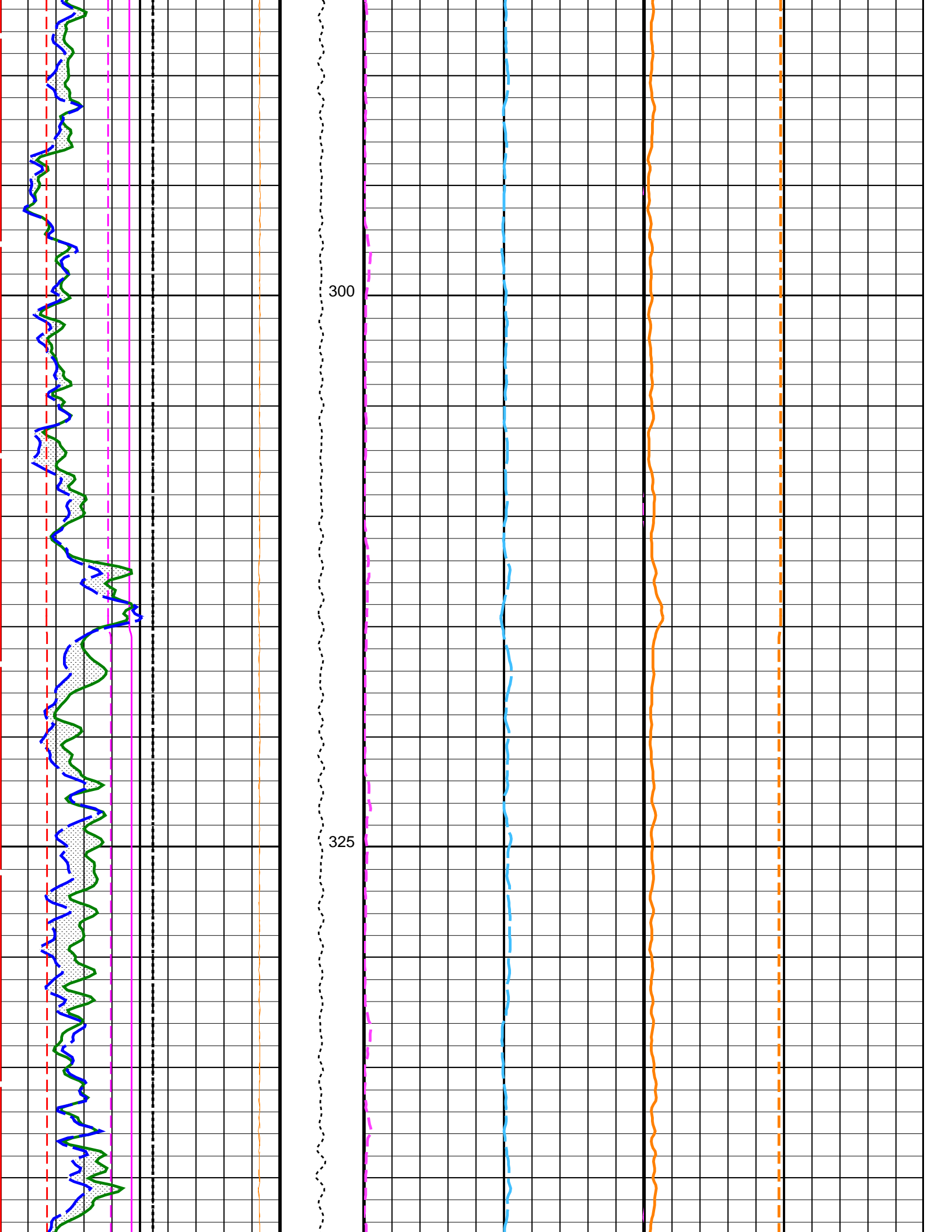


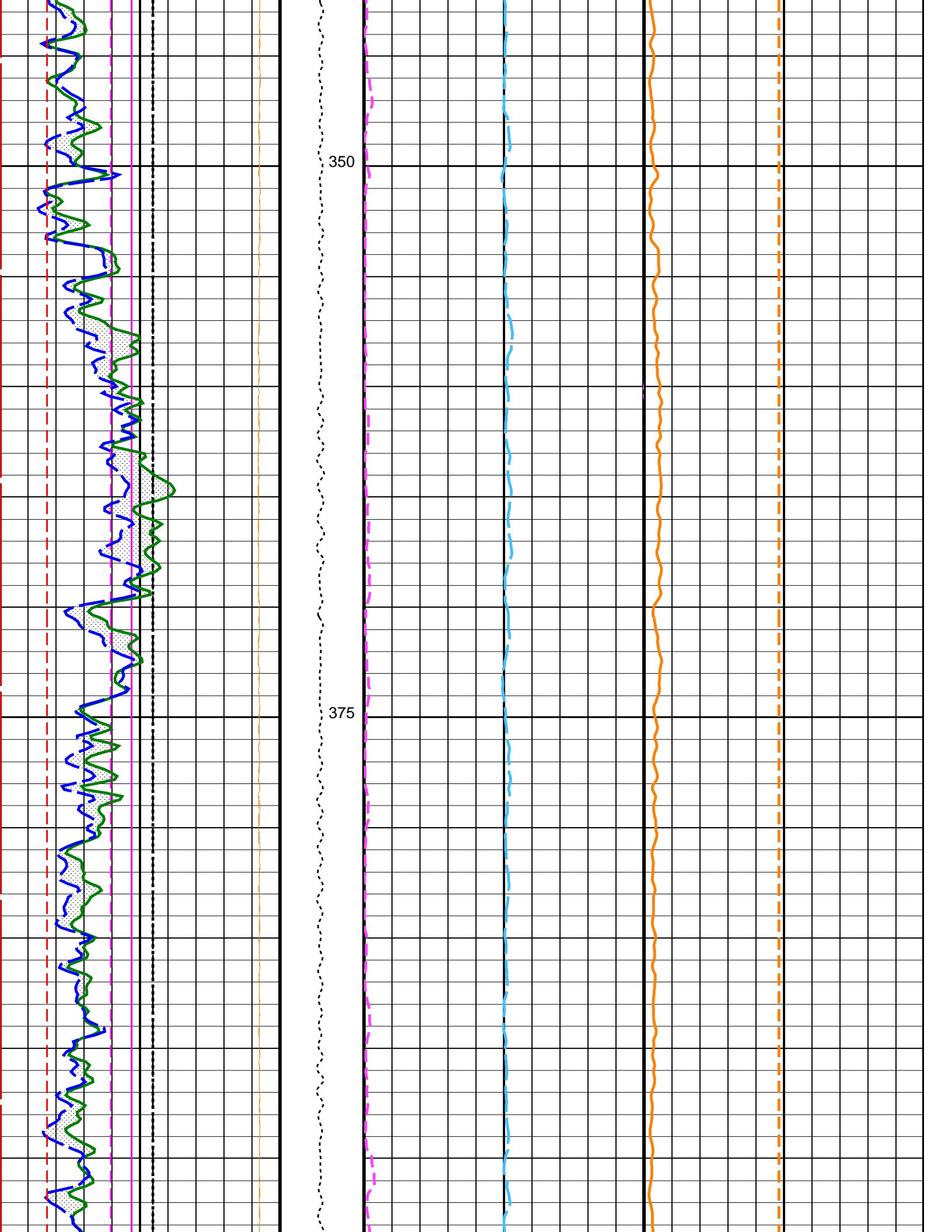


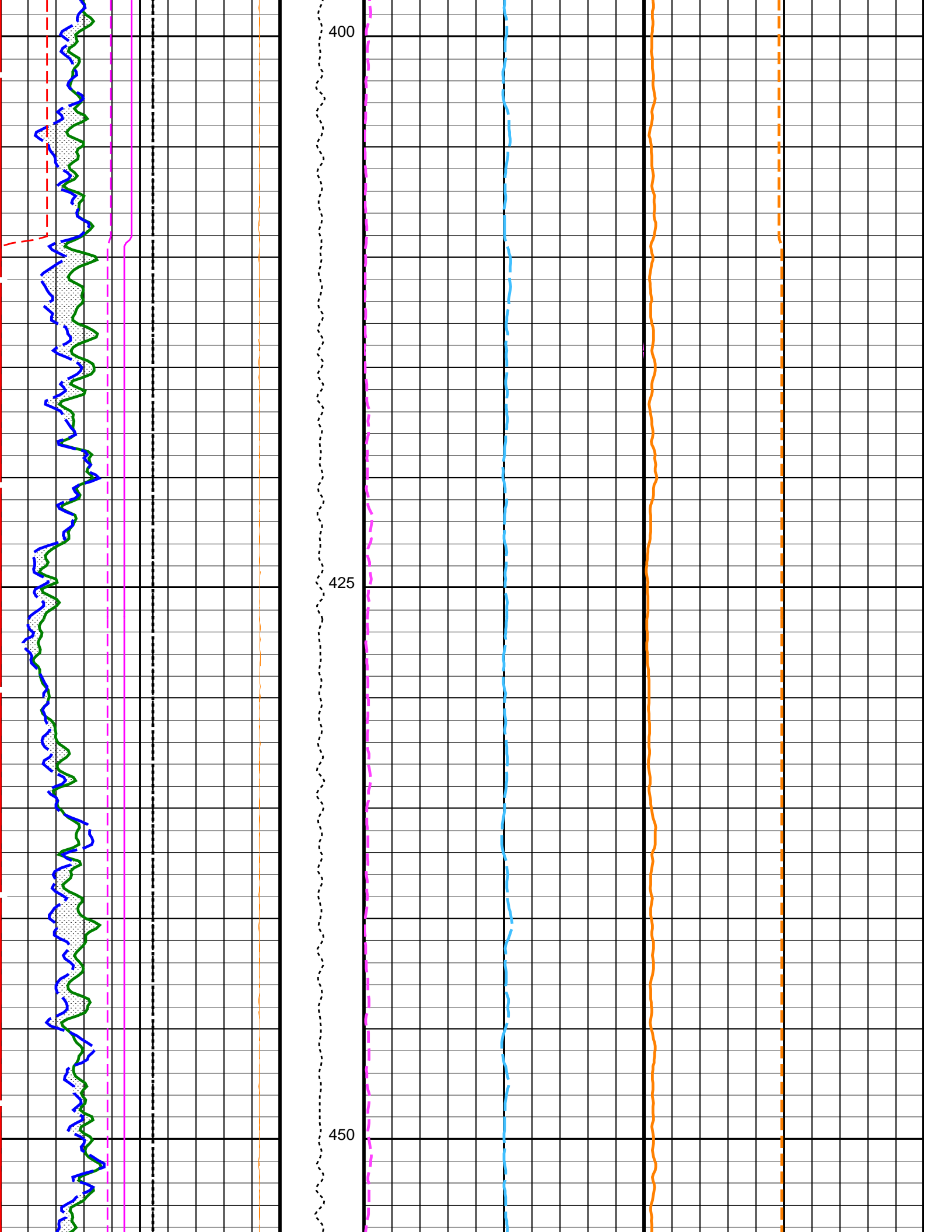


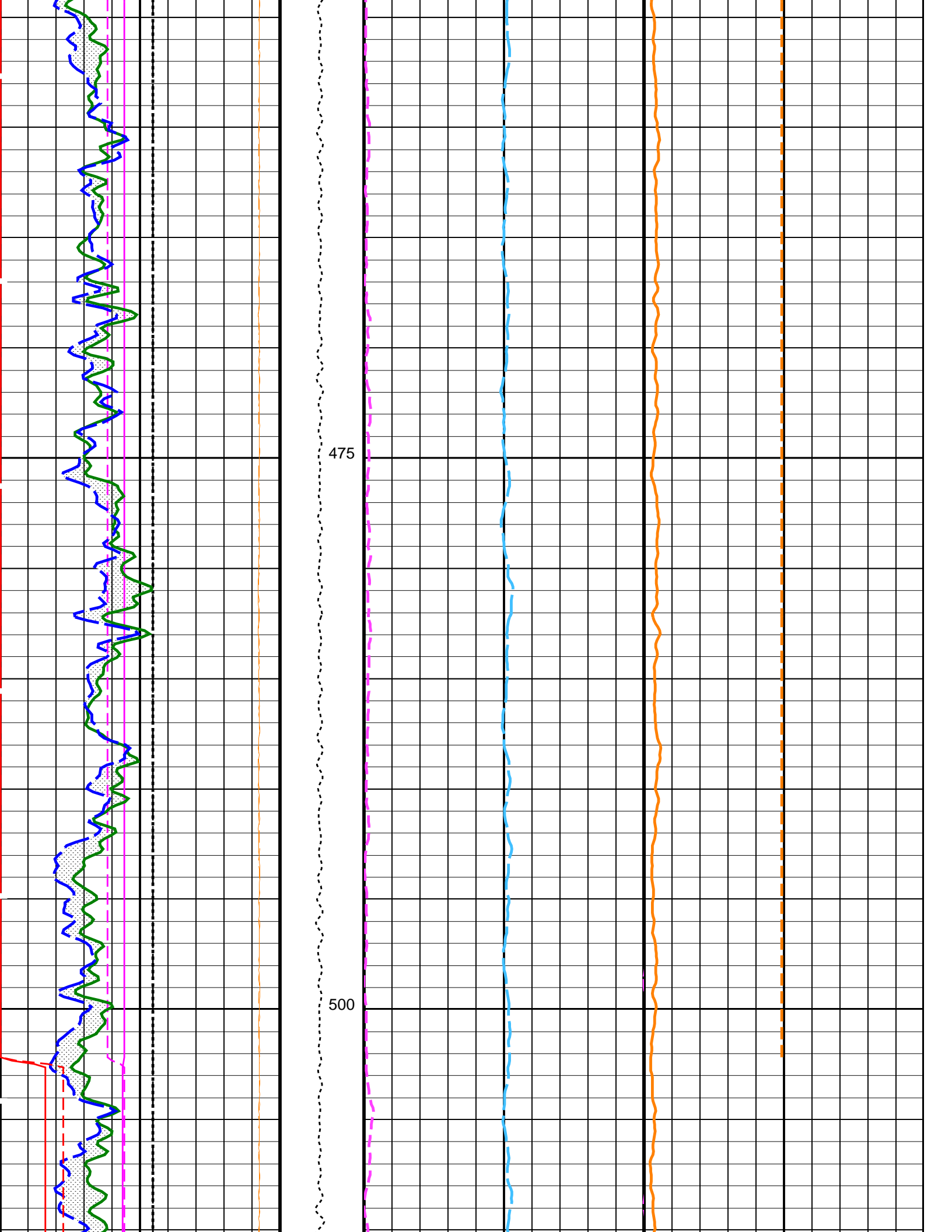


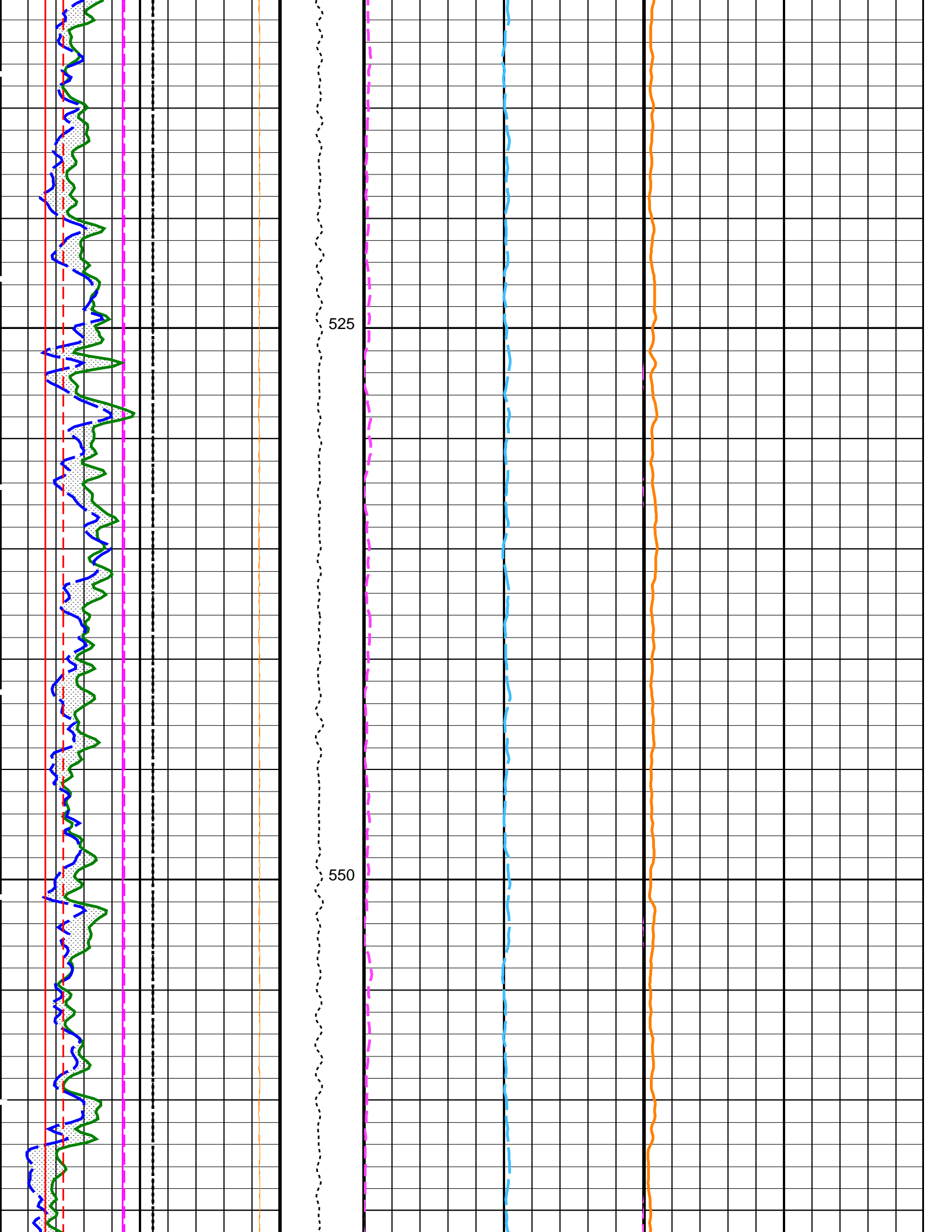




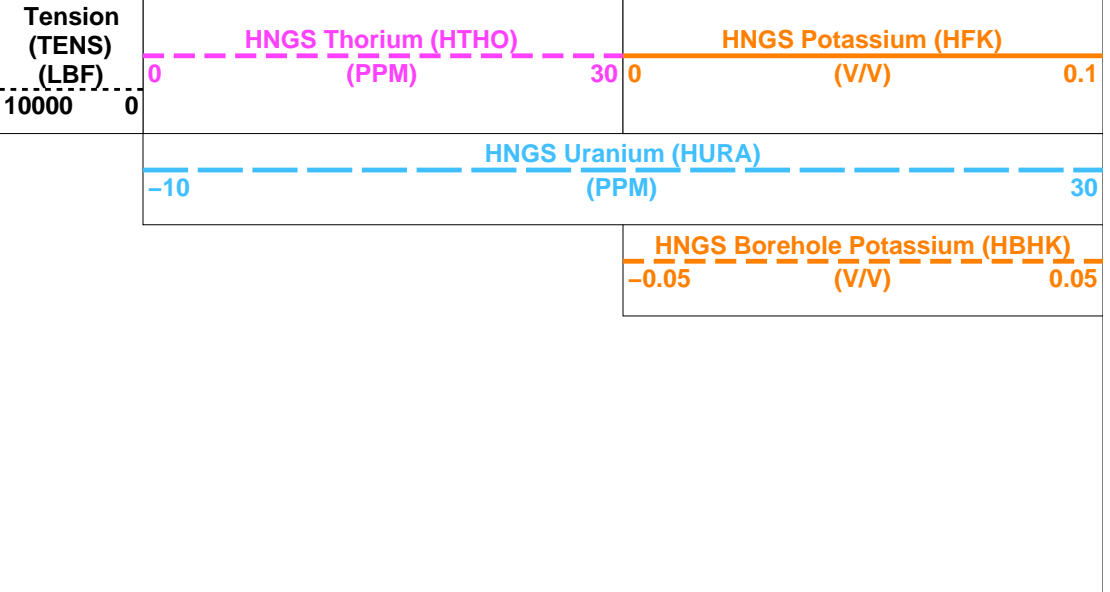
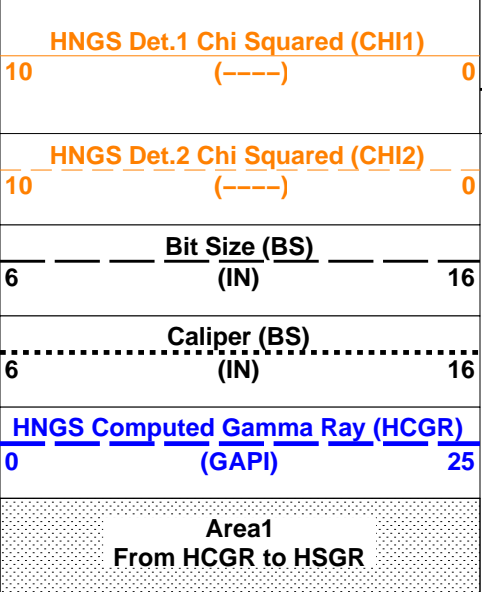
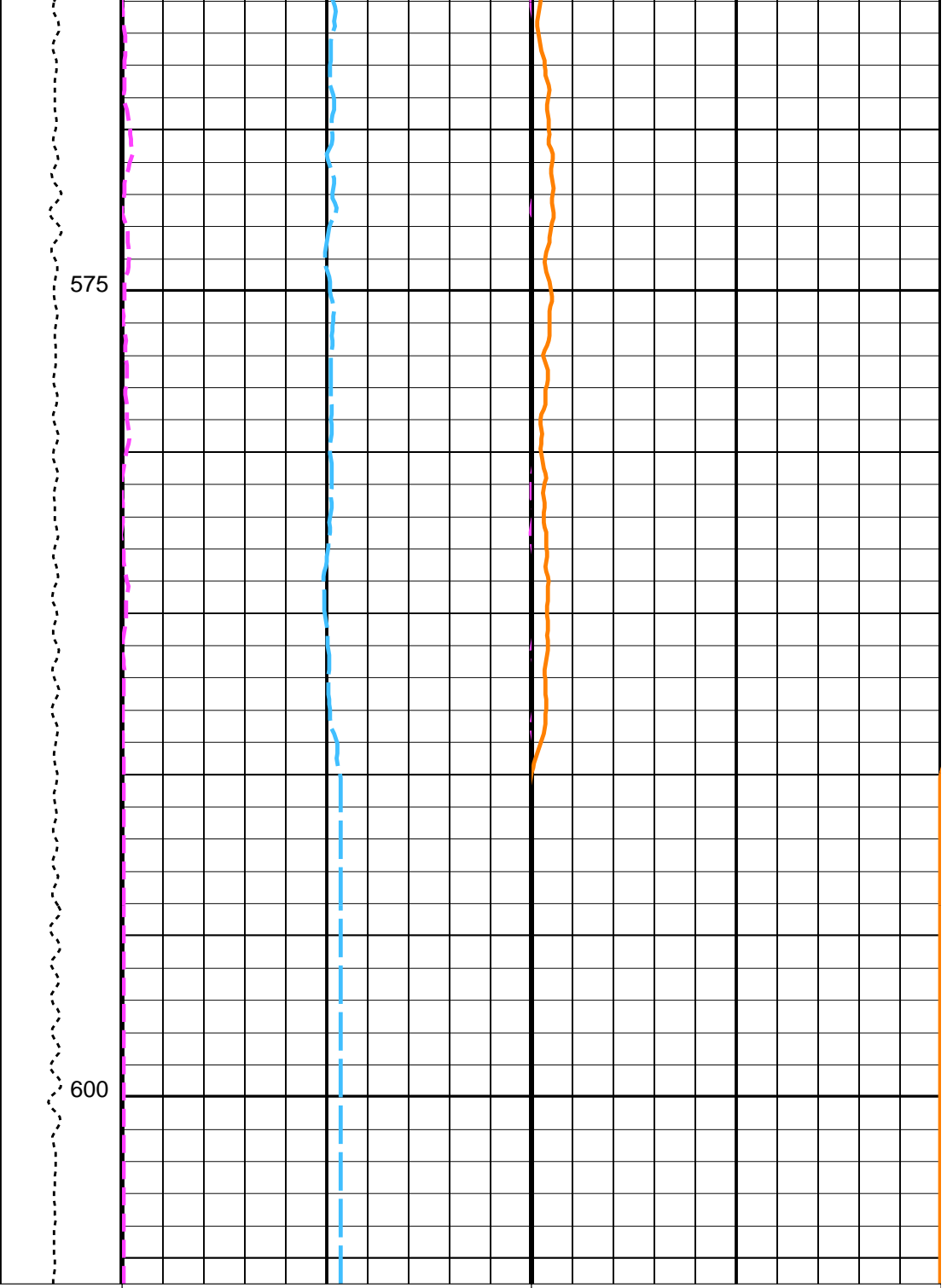
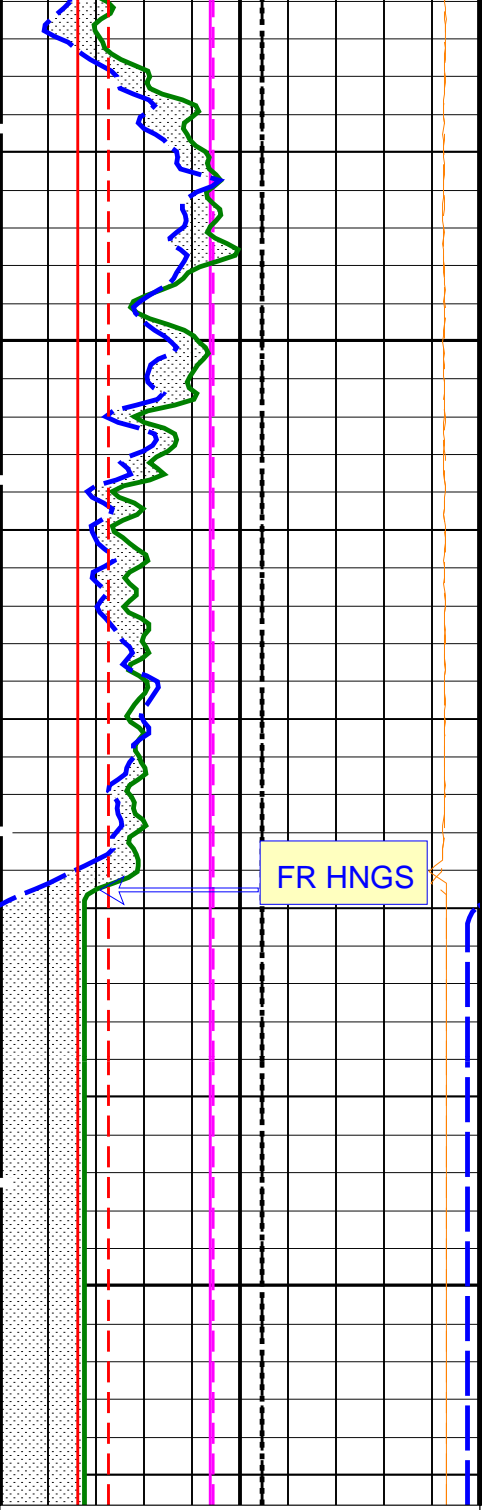












<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(-----)	1.1
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(-----)	1.1
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(-----)	10
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(-----)	10
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	25

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
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	-0.00115134	
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	1.08469	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.05591	
<b>EDTC-B: Enhanced DTS Cartridge</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
<b>DIR: Directional Survey Computation</b>			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
<b>System and Miscellaneous</b>			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-4487.1	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 30-Sep-2011 10:03

OP System Version: 19C0-187

MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

Input DLIS Files

DEFAULT	MSS_LDEO_MTT_NGS_032LUP	FN:39	PRODUCER	25-Sep-2011 02:20	5093.2 M	4472.0 M
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# Output DLIS Files

DEFAULT MSS\_LDEO\_MTT\_NGS\_053PUP FN:59 PRODUCER 30-Sep-2011 10:03



## Run #2 Up Pass #1 (Lower Section)

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 336, Site 395A

### Input DLIS Files

DEFAULT Flip\_MSS\_LDEO\_MTT\_039LUP PRODUCER 26-Sep-2011 11:37 5093.8 M 4668.0 M

### Output DLIS Files

DEFAULT MSS\_LDEO\_MTT\_NGS\_052PUP FN:58 PRODUCER 30-Sep-2011 09:51 606.2 M 180.4 M

### OP System Version: 19C0-187

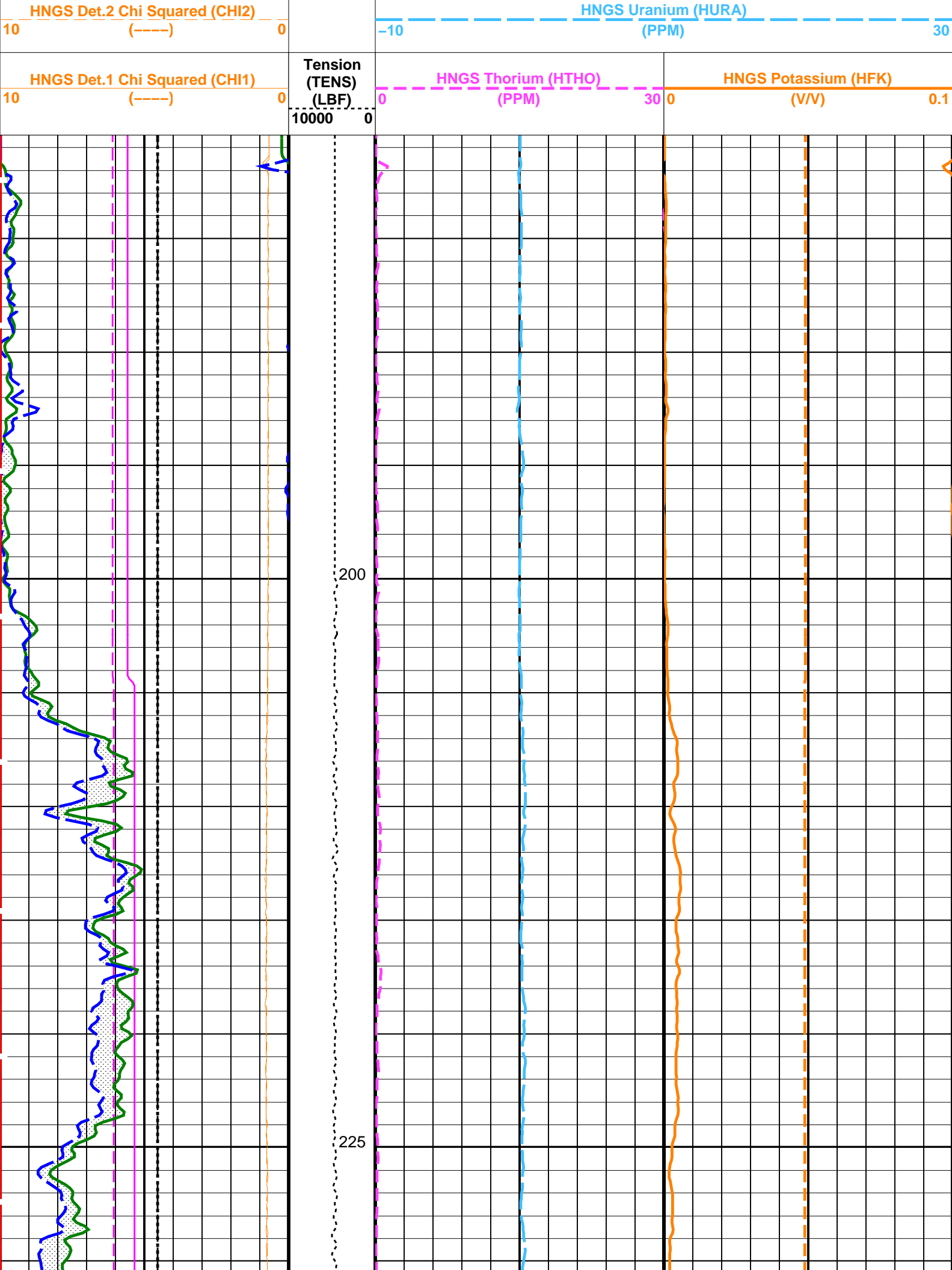
MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

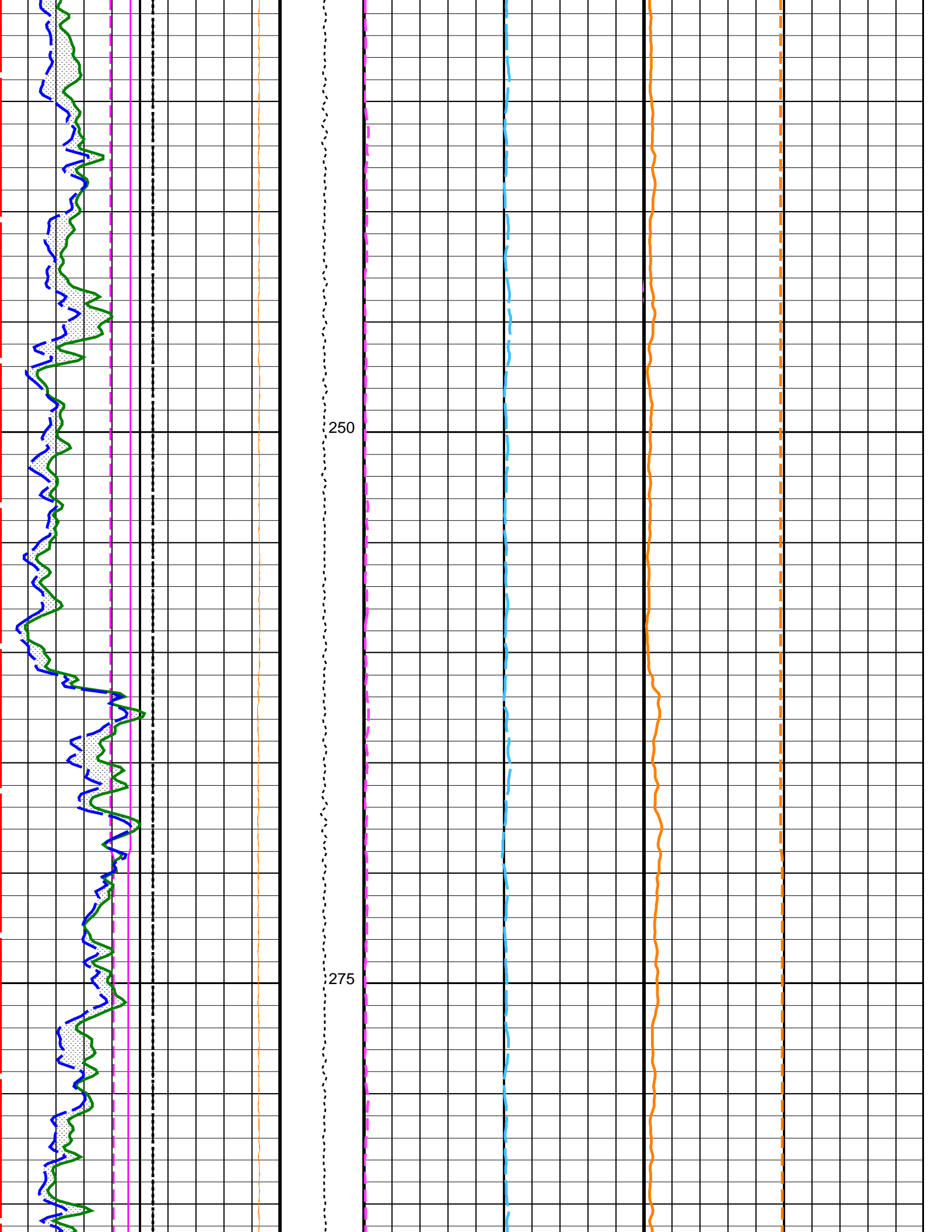
### PIP SUMMARY

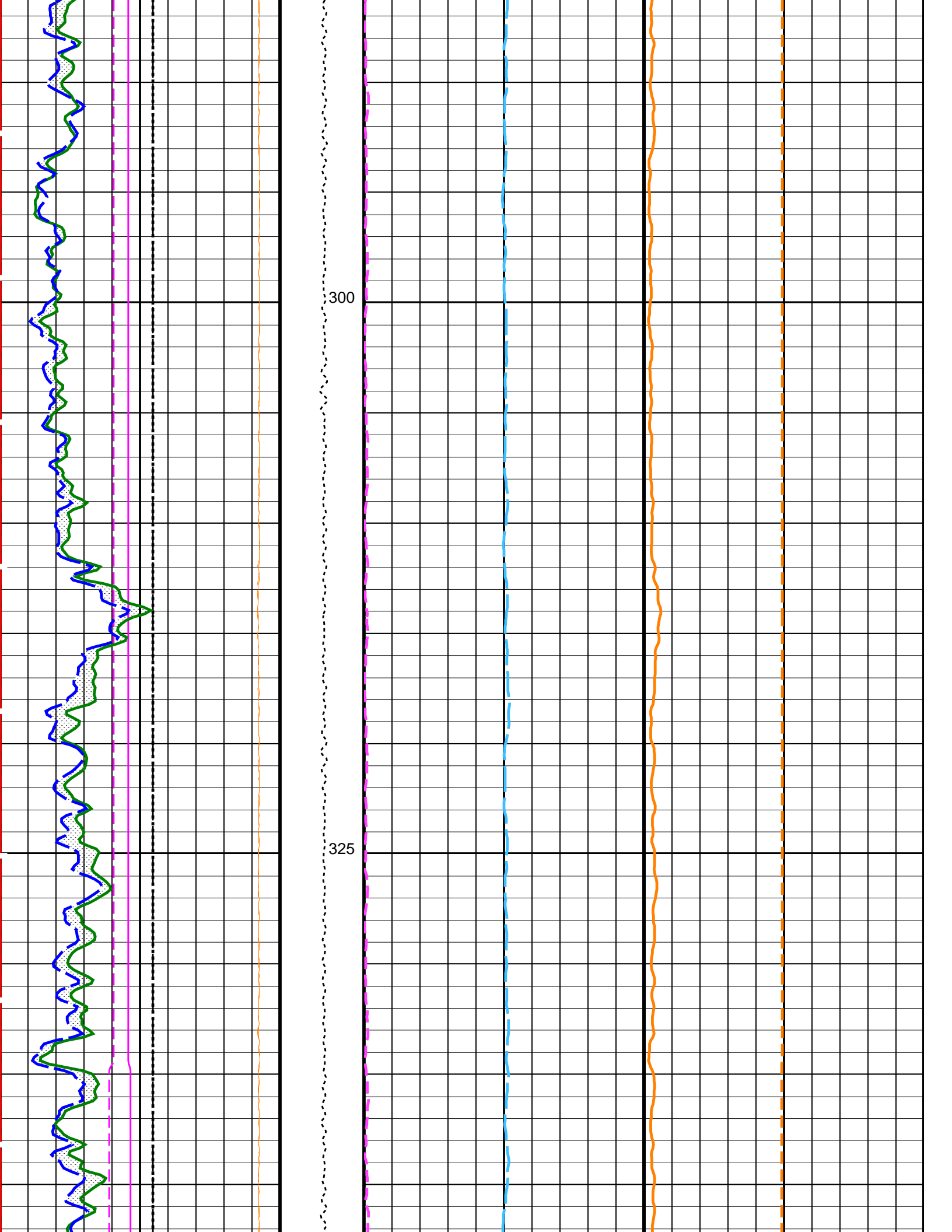
Time Mark Every 60 S

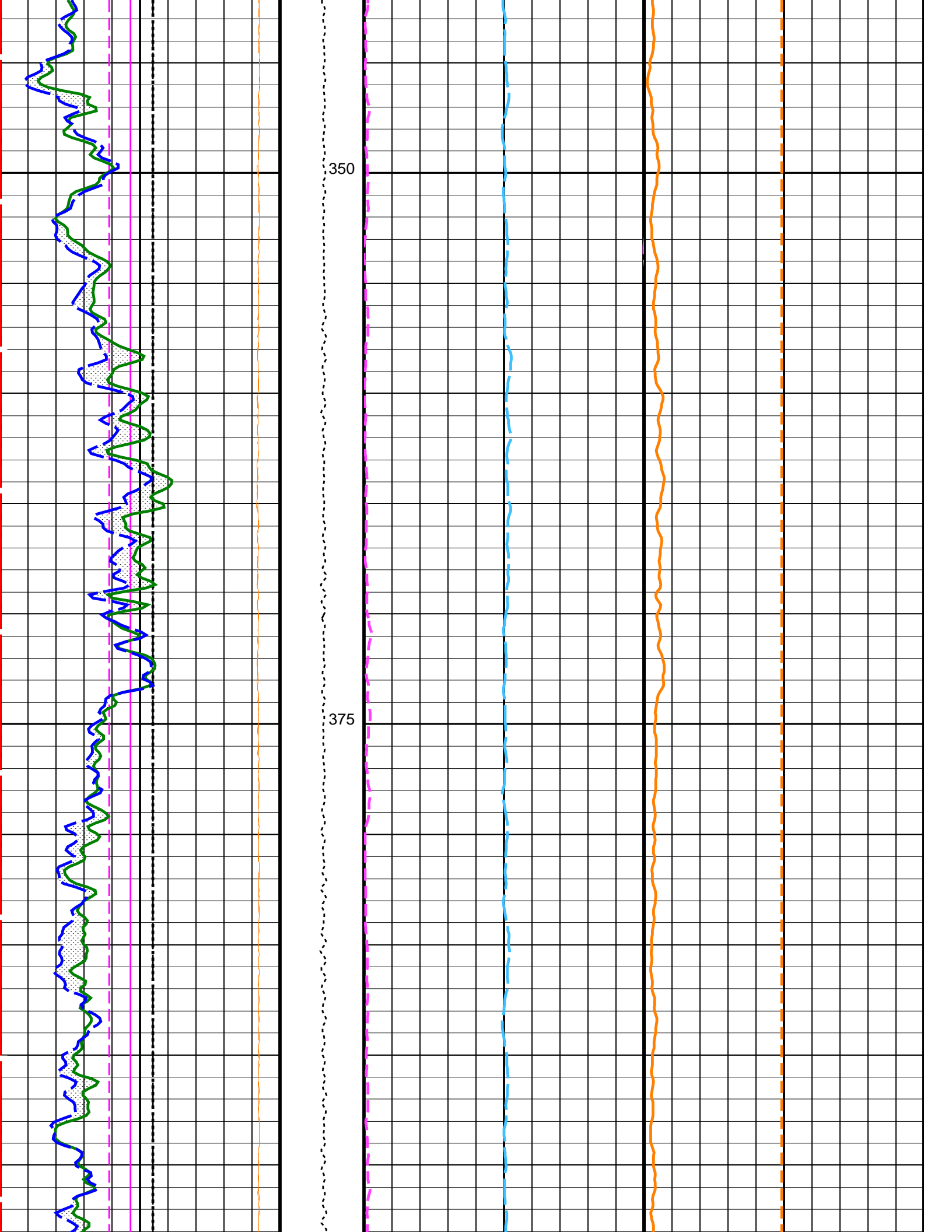
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	25
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(-----)	10
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(-----)	10
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(-----)	1.1
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(-----)	1.1
Area1 From HCGR to HSGR		
<b>HNGS Computed Gamma Ray (HCGR)</b>		
0	(GAPI)	25
Caliper (BS)		
6	(IN)	16
Bit Size (BS)		
6	(IN)	16

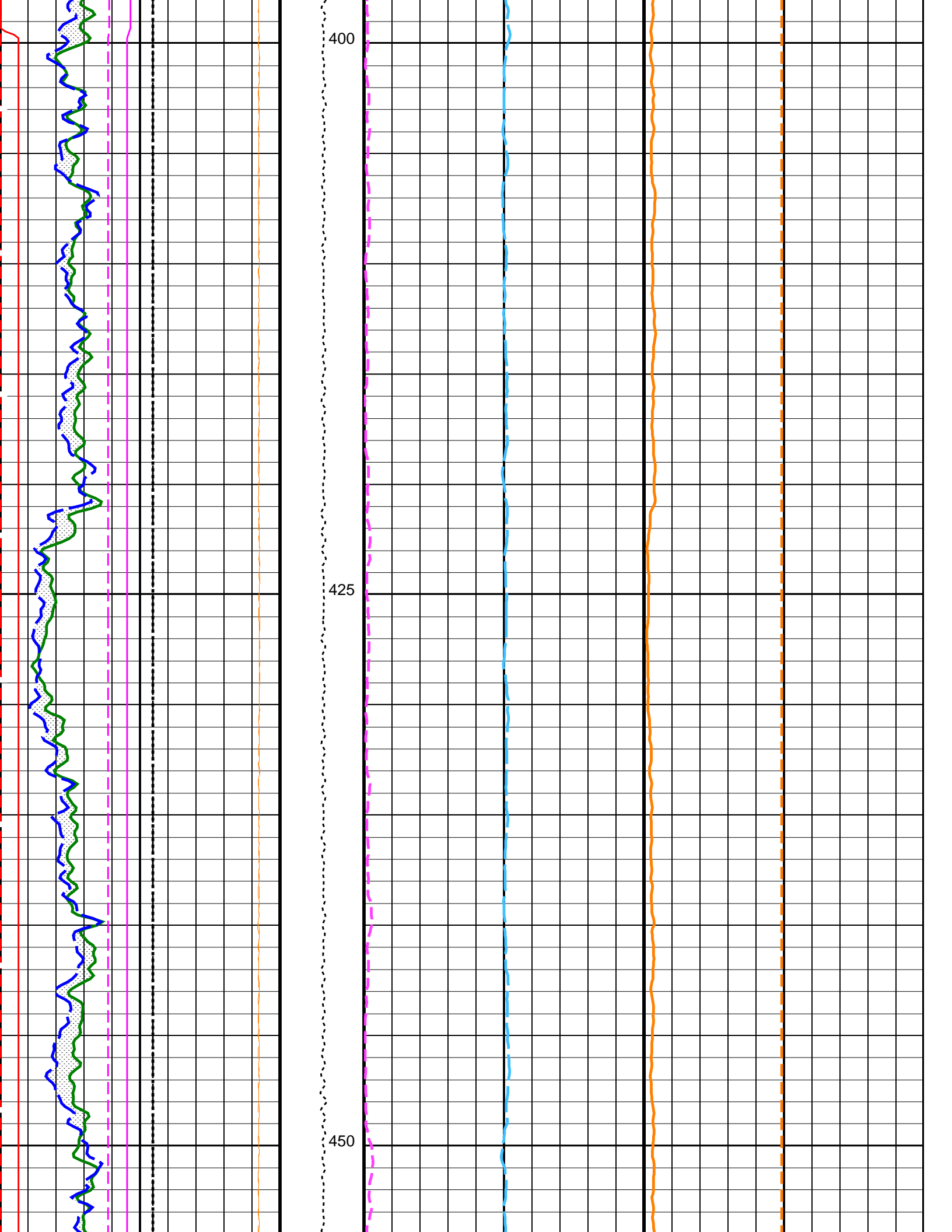
<b>HNGS Borehole Potassium (HBHK)</b>		
-0.05	(V/V)	0.05



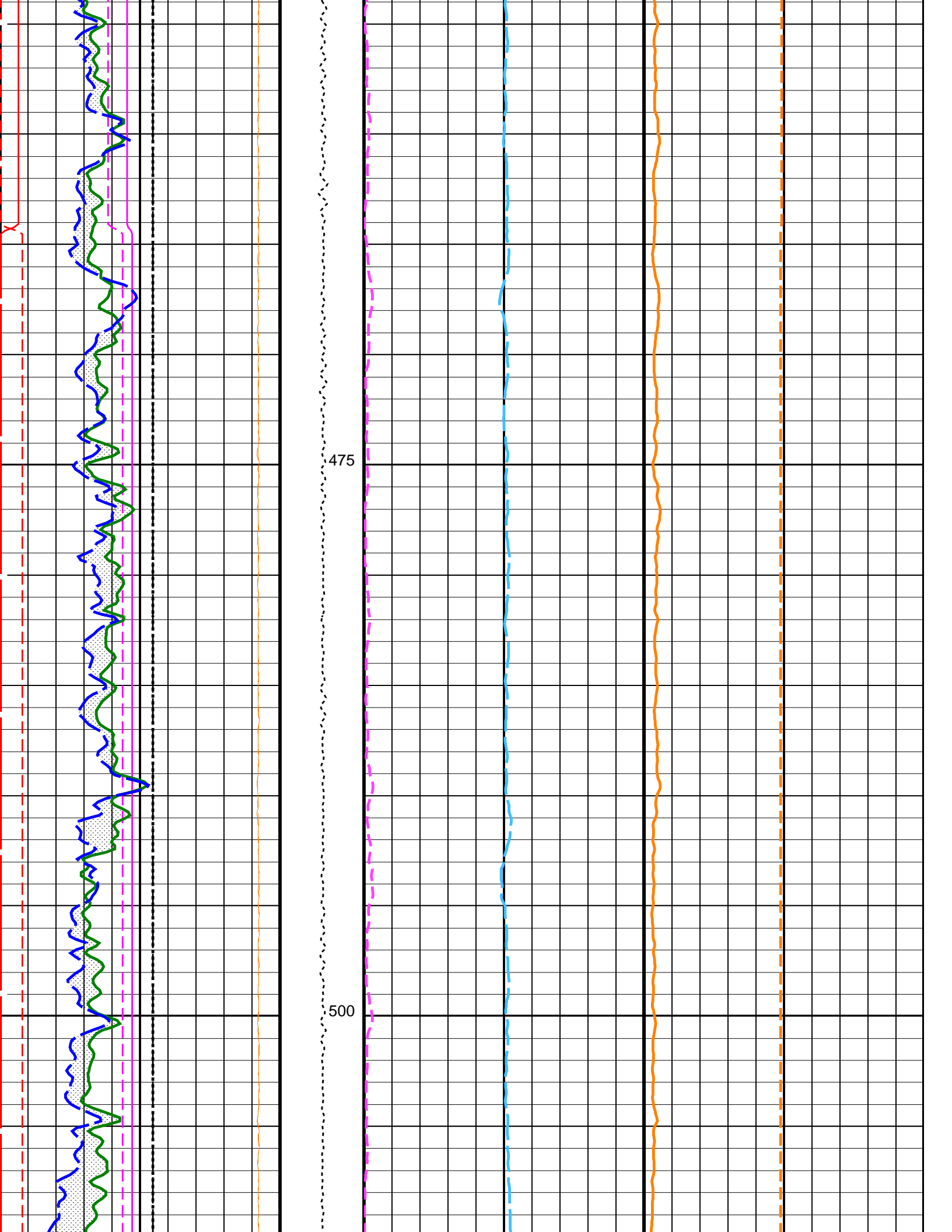


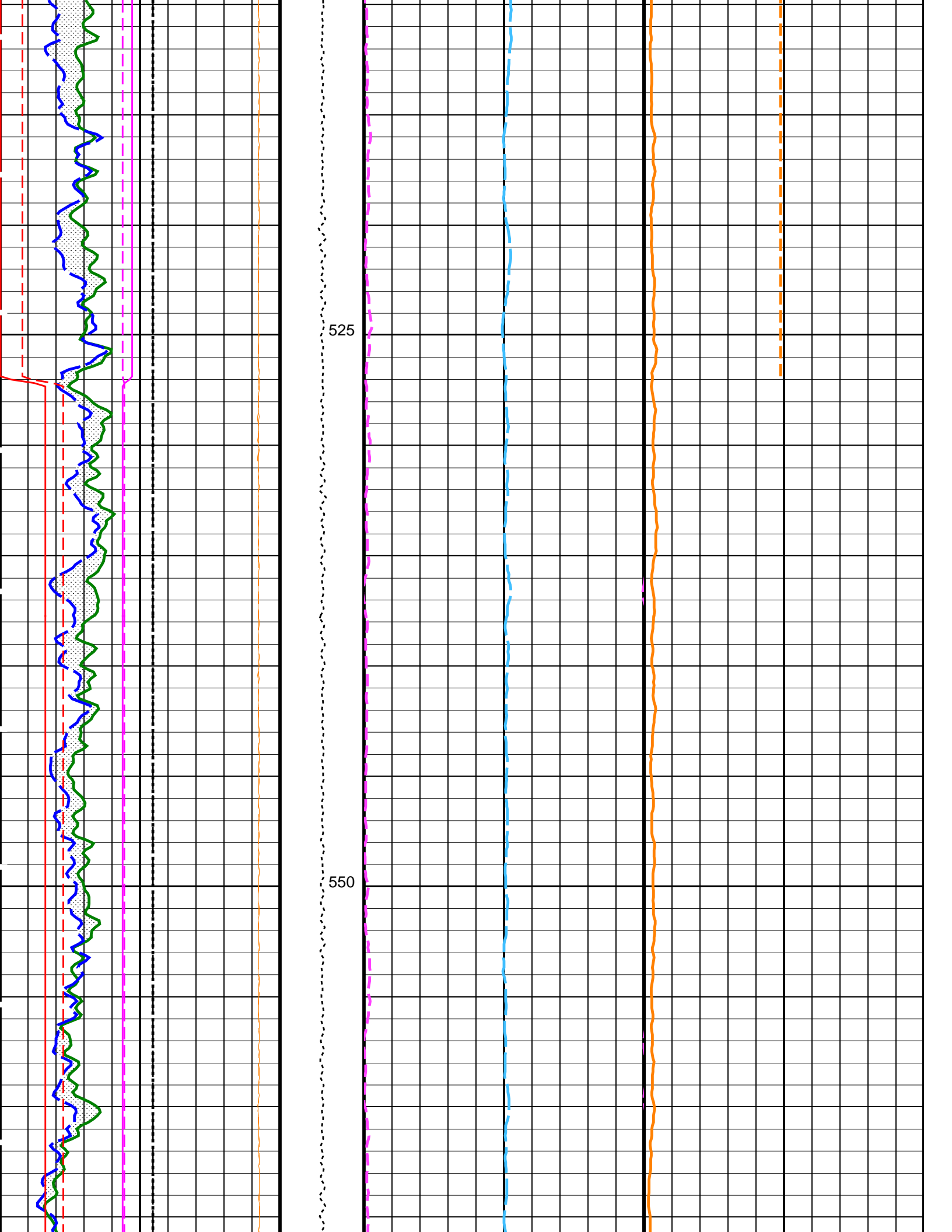


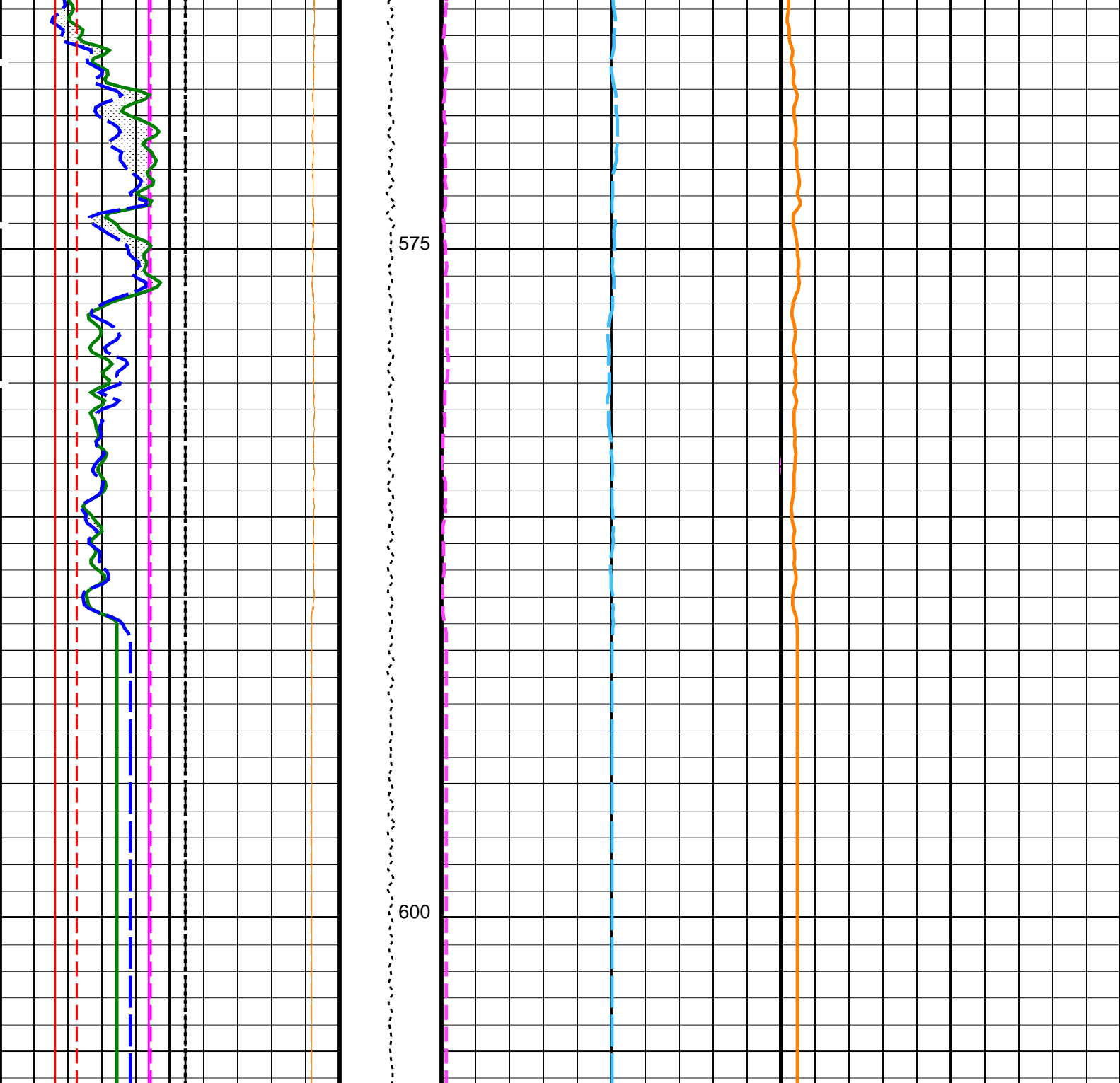












HNGS Det.1 Chi Squared (CHI1)  
 10 (----) 0

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

Bit Size (BS)  
 (IN) 6 16

Caliper (BS)  
 (IN) 6 16

HNGS Computed Gamma Ray (HCGR)  
 0 (GAPI) 25

Tension  
 (TENS)  
 (LBF)  
 10000 0

HNGS Thorium (HTHO)  
 (PPM) 0 30

HNGS Uranium (HURA)  
 (PPM) -10 30

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

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

Area1  
 From HCGR to HSGR

<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(-----)	1.1
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(-----)	1.1
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(-----)	10
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(-----)	10
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	25

**PIP SUMMARY**

Time Mark Every 60 S

**Parameters**

<b>DLIS Name</b>	<b>Description</b>	<b>Value</b>	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
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	-0.0010674	
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	1.07489	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.0515	
<b>EDTC-B: Enhanced DTS Cartridge</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
<b>DIR: Directional Survey Computation</b>			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
<b>System and Miscellaneous</b>			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-4487.6	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields Vertical Scale: 1:200

Graphics File Created: 30-Sep-2011 09:51

**OP System Version: 19C0-187**

MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

**Input DLIS Files**

DEFAULT	Flip MSS_LDEO_MTT_039LUP	PRODUCER	26-Sep-2011 11:37	5093.8 M	4668.0 M
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# Output DLIS Files

DEFAULT MSS\_LDEO\_MTT\_NGS\_052PUP FN:58 PRODUCER 30-Sep-2011 09:51



## Run #2 Down Pass #2 (Lower Section)

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 336, Site 395A

### Input DLIS Files

DEFAULT MSS\_LDEO\_MTT\_NGS\_030LUP FN:35 PRODUCER 24-Sep-2011 23:45 5093.2 M 4687.1 M

### Output DLIS Files

DEFAULT MSS\_LDEO\_MTT\_NGS\_051PUP FN:57 PRODUCER 30-Sep-2011 09:50 605.8 M 199.5 M

### OP System Version: 19C0-187

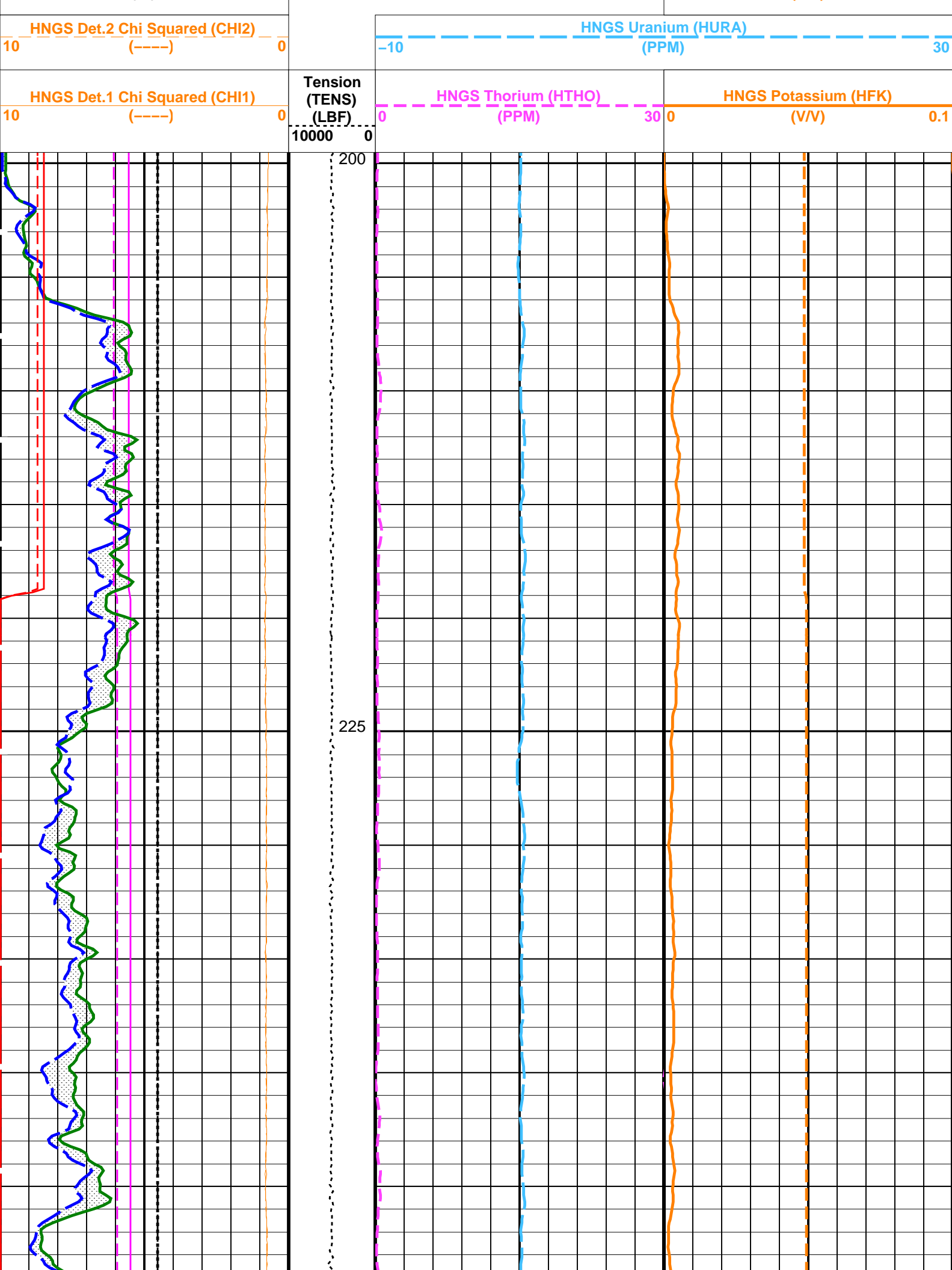
MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

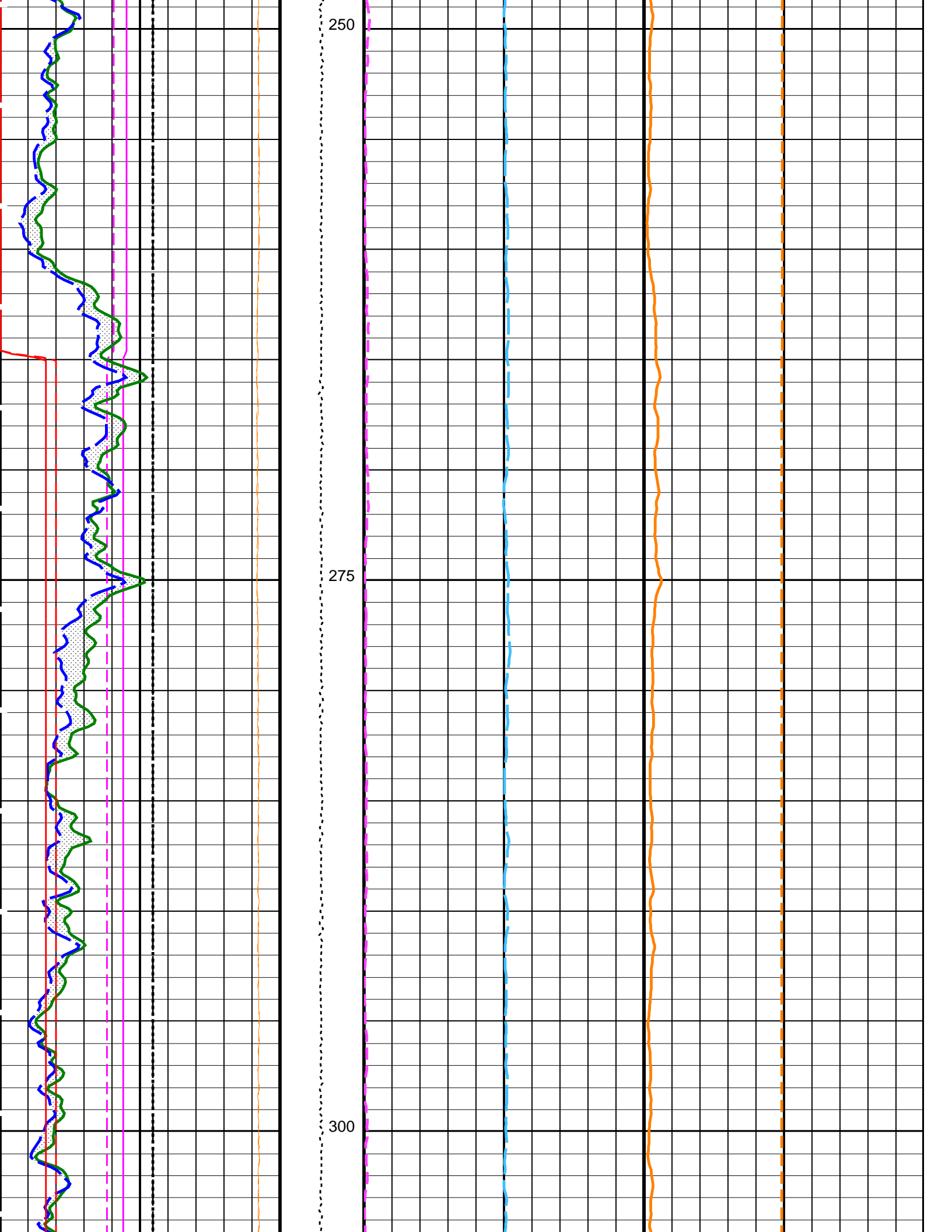
### PIP SUMMARY

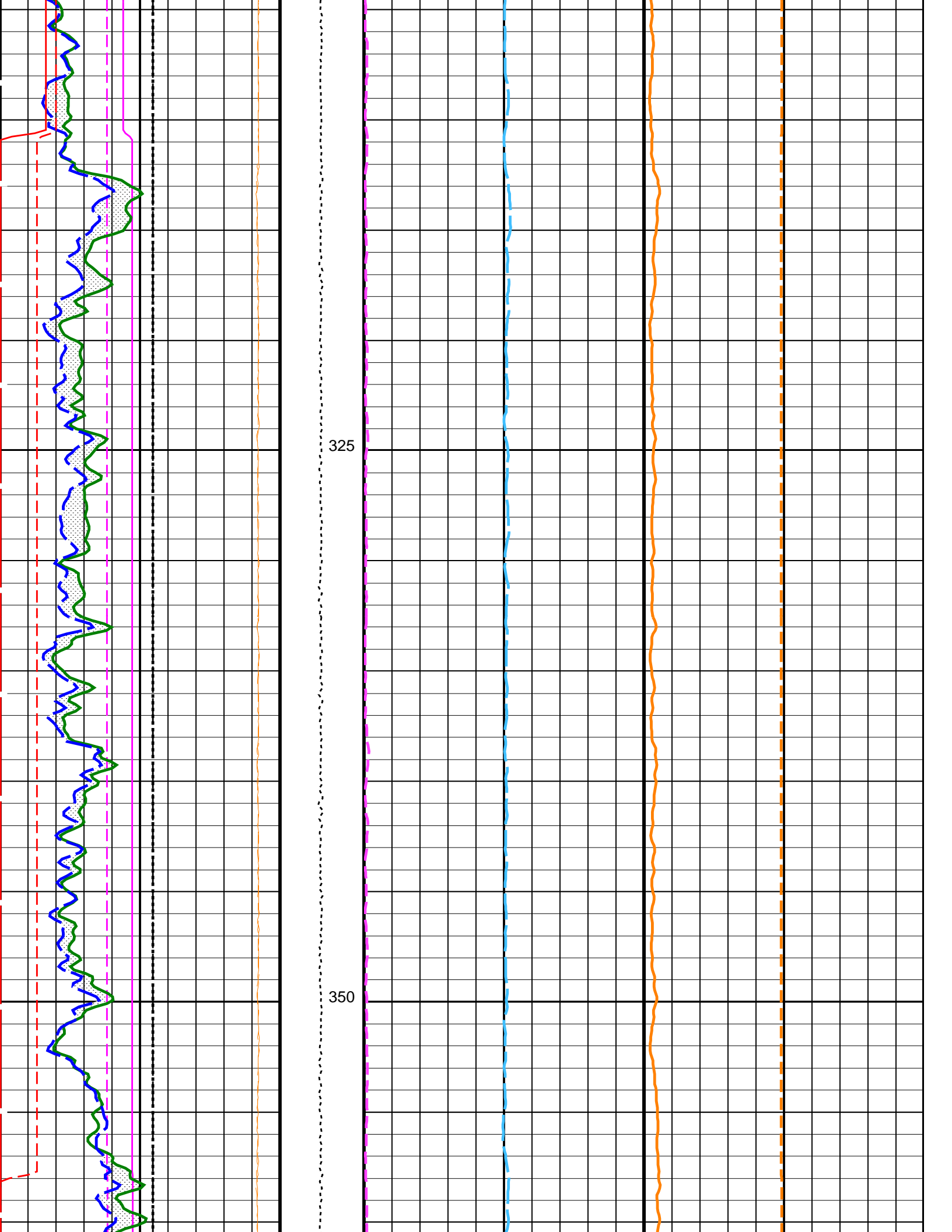
Time Mark Every 60 S

<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	25
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(-----)	10
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(-----)	10
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(-----)	1.1
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(-----)	1.1
Area1 From HCGR to HSGR		
<b>HNGS Computed Gamma Ray (HCGR)</b>		
0	(GAPI)	25
Caliper (BS)		
6	(IN)	16
Bit Size (BS)		
6	(IN)	16

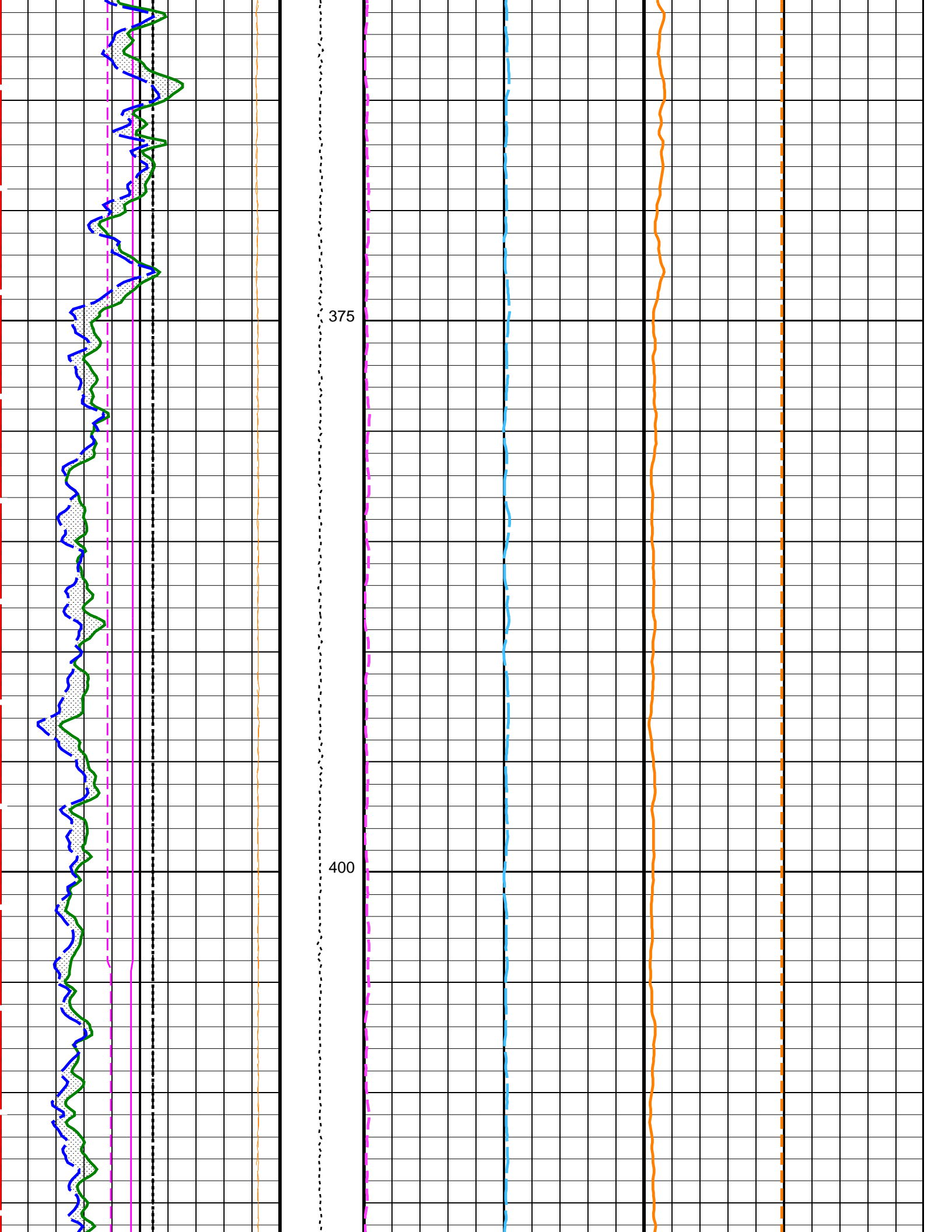
<b>HNGS Borehole Potassium (HBHK)</b>		
-0.05	(V/V)	0.05

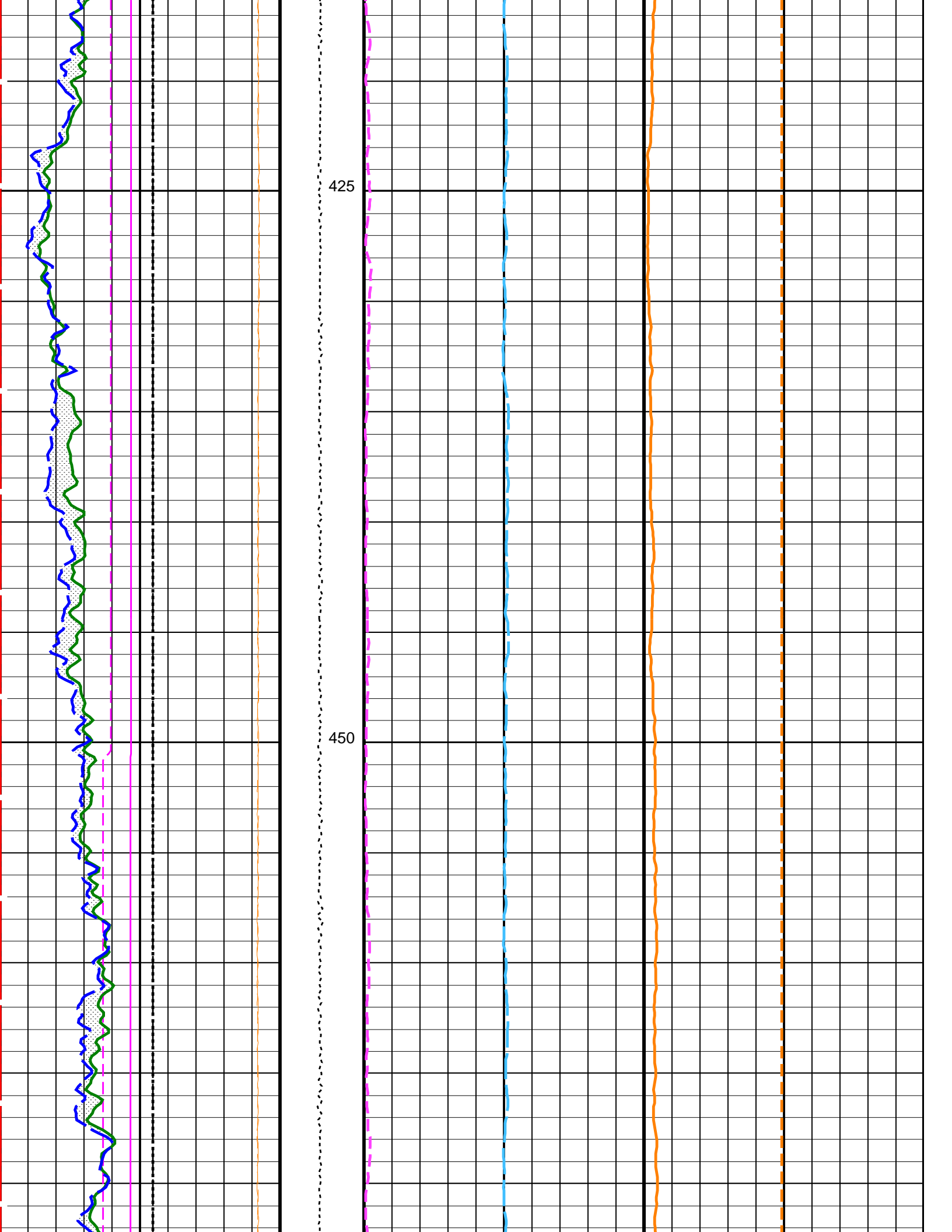


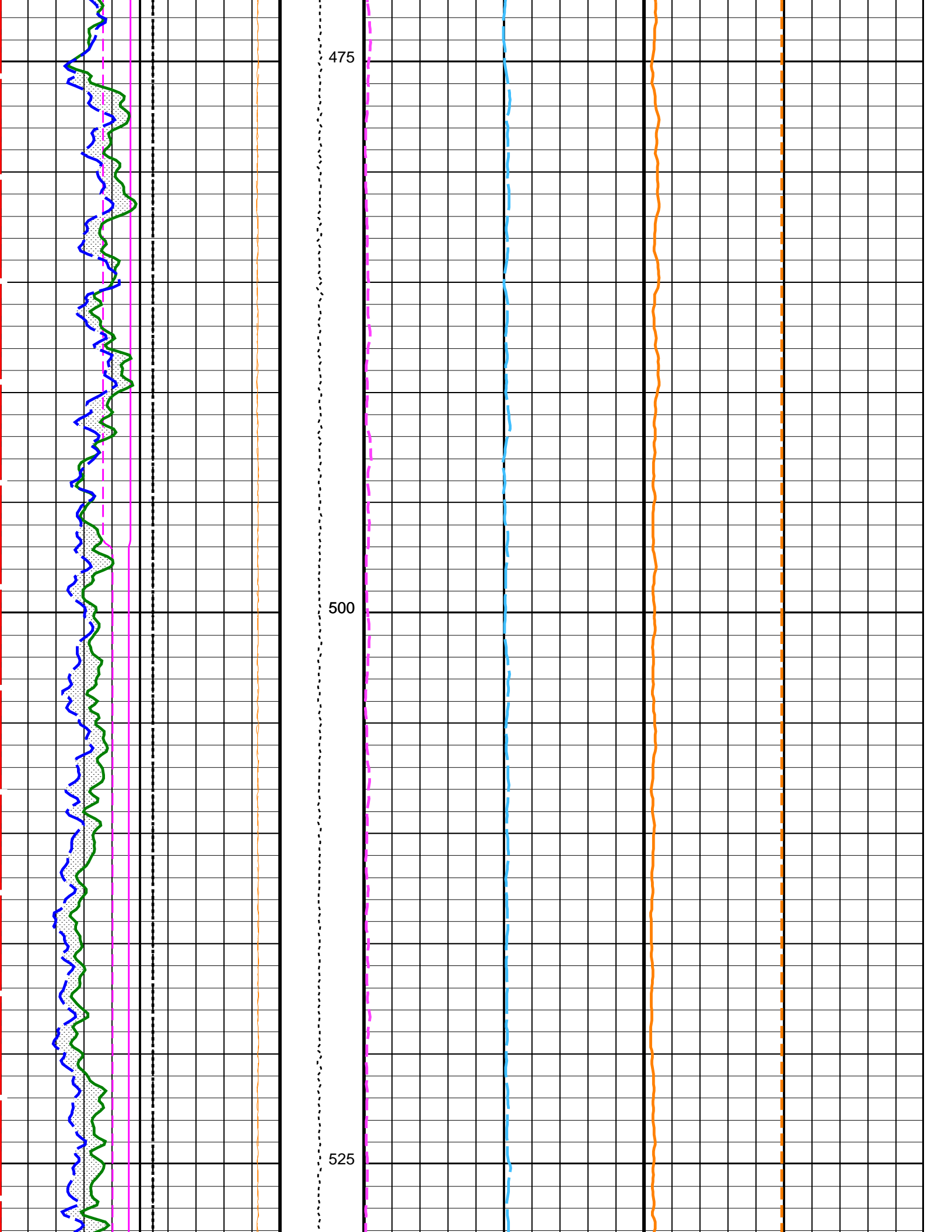


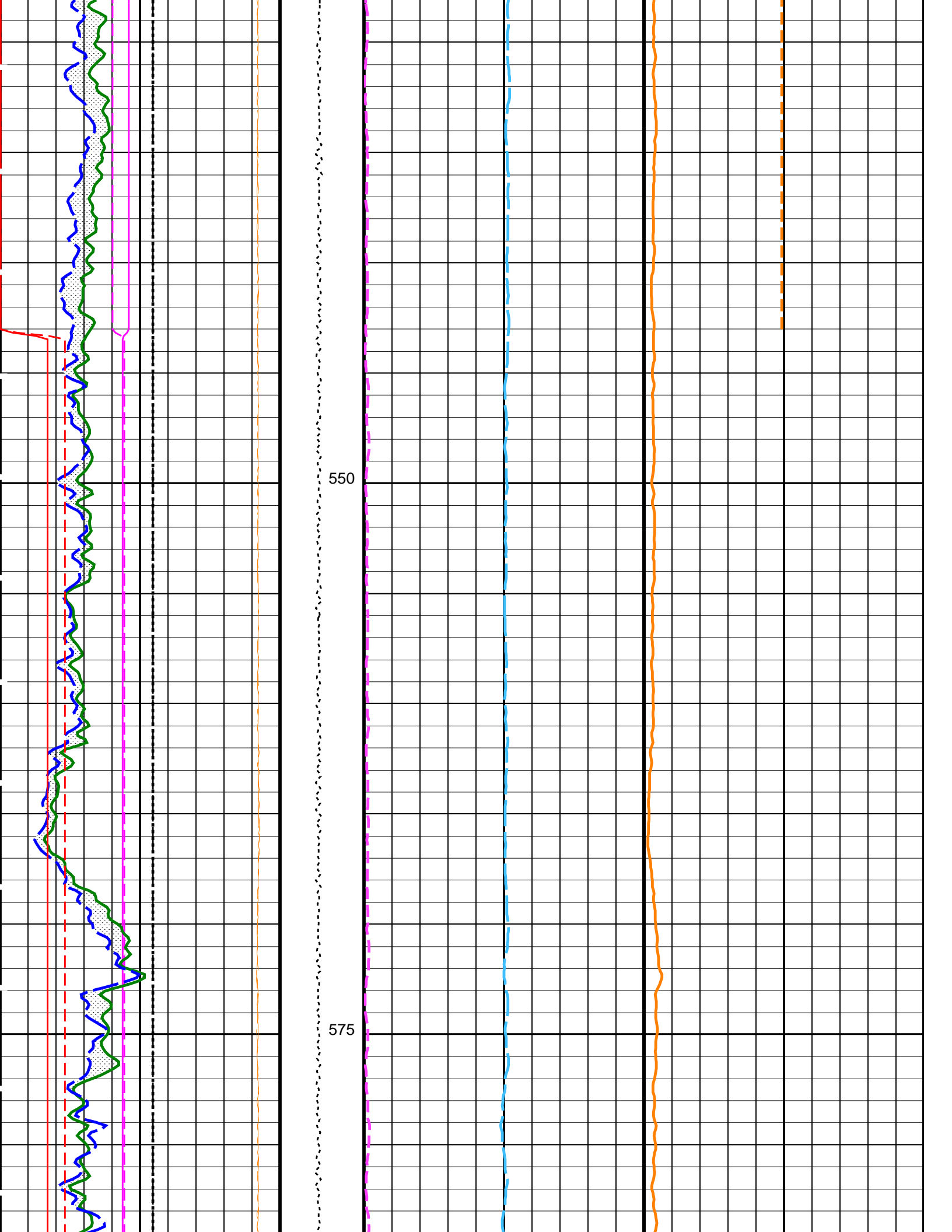


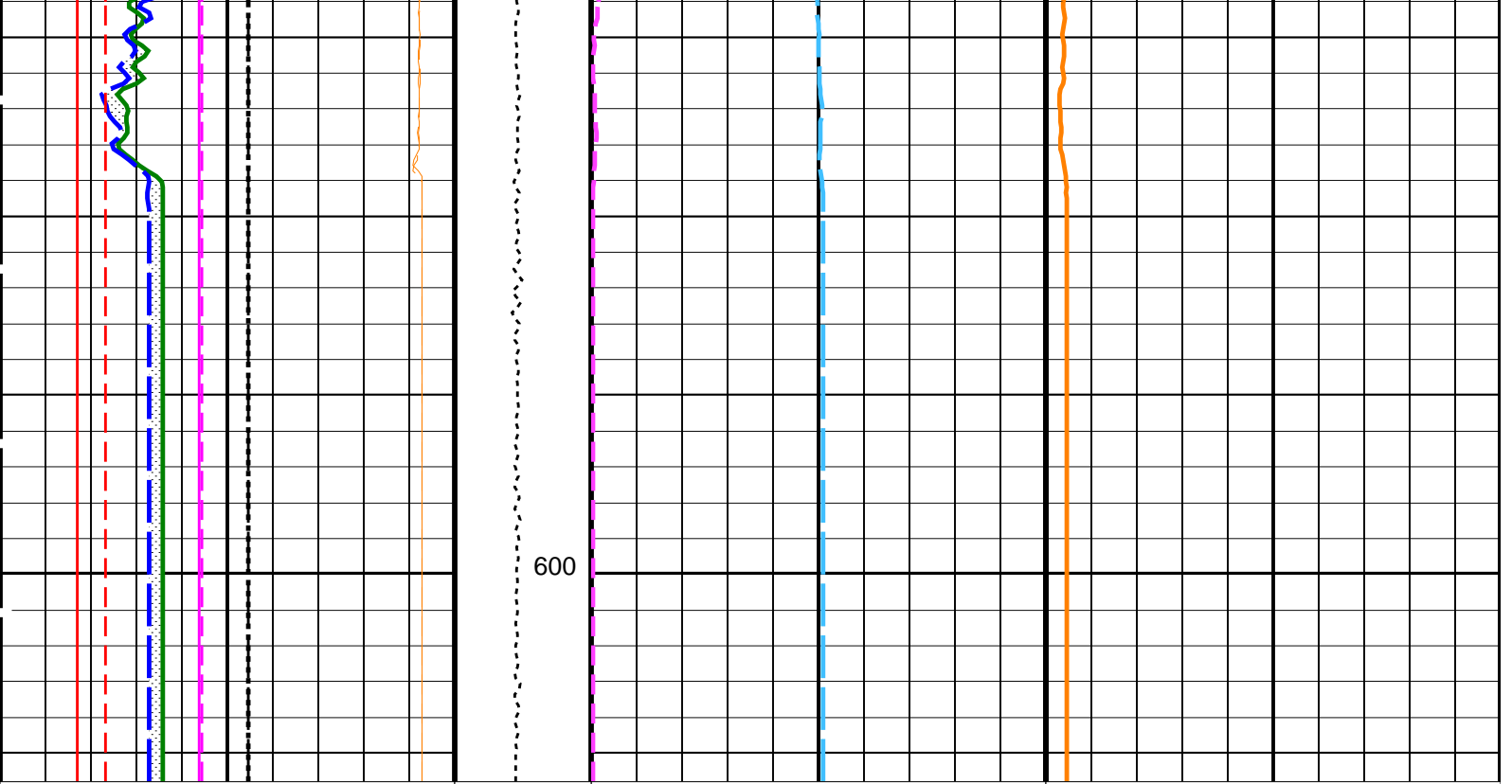












<b>HNGS Det.1 Chi Squared (CHI1)</b>		
10	(-----)	0
<b>HNGS Det.2 Chi Squared (CHI2)</b>		
10	(-----)	0
<b>Bit Size (BS)</b>		
6	(IN)	16
<b>Caliper (BS)</b>		
6	(IN)	16
<b>HNGS Computed Gamma Ray (HCGR)</b>		
0	(GAPI)	25
Area1 From HCGR to HSGR		
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(-----)	1.1
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(-----)	1.1
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(-----)	10
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(-----)	10
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	25

<b>Tension (TENS) (LBF)</b>		<b>HNGS Thorium (HTHO) (PPM)</b>		<b>HNGS Potassium (HFK) (V/V)</b>	
10000	0	0	30	0	0.1
		<b>HNGS Uranium (HURA) (PPM)</b>			
		-10			30
		<b>HNGS Borehole Potassium (HBHK) (V/V)</b>			
		-0.05			0.05

PIP SUMMARY

## Parameters

DLIS Name	Description	Value	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
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	-0.00140411	
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	1.07665	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.06191	
<b>EDTC-B: Enhanced DTS Cartridge</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
<b>DIR: Directional Survey Computation</b>			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
<b>System and Miscellaneous</b>			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-4487.6	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields    Vertical Scale: 1:200    Graphics File Created: 30-Sep-2011 09:50

### OP System Version: 19C0-187

MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

#### Input DLIS Files

DEFAULT	MSS_LDEO_MTT_NGS_030LUP	FN:35	PRODUCER	24-Sep-2011 23:45	5093.2 M	4687.1 M
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#### Output DLIS Files

DEFAULT	MSS_LDEO_MTT_NGS_051PUP	FN:57	PRODUCER	30-Sep-2011 09:50		
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**Run #2 Down Pass #1  
(Lower Section)**

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 336, Site 395A

#### Input DLIS Files

DEFAULT	File: MSS_LDEO_MTT_030LUP	PRODUCER	26 Sep 2011 11:26	5093.2 M	4687.1 M
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### Output DLIS Files

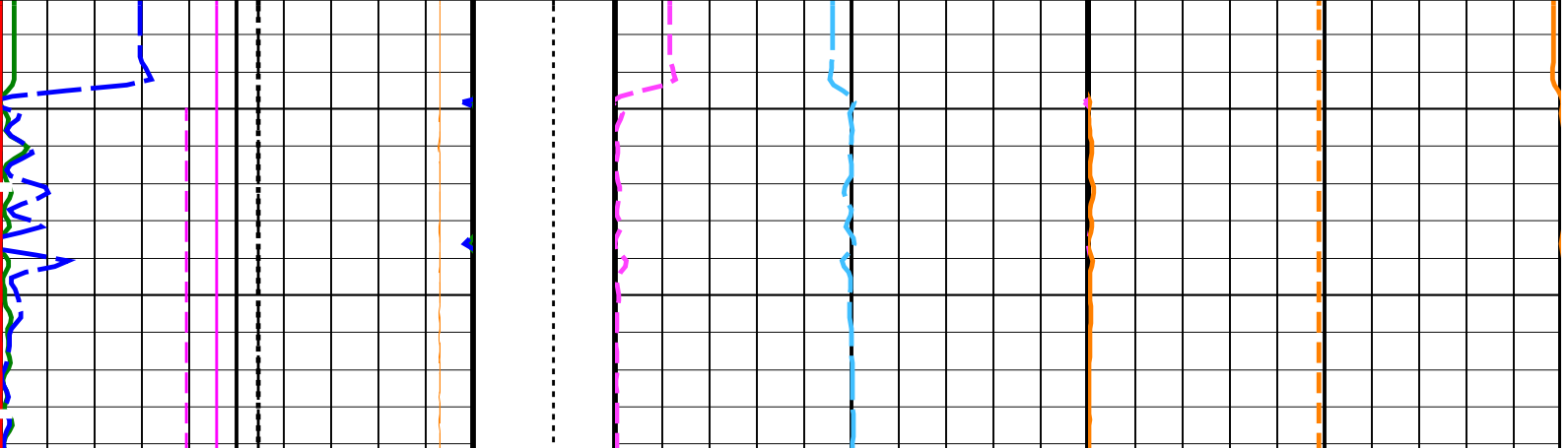
DEFAULT MSS\_LDEO\_MTT\_NGS\_050PUP FN:56 PRODUCER 30-Sep-2011 09:48 605.2 M -62.9 M

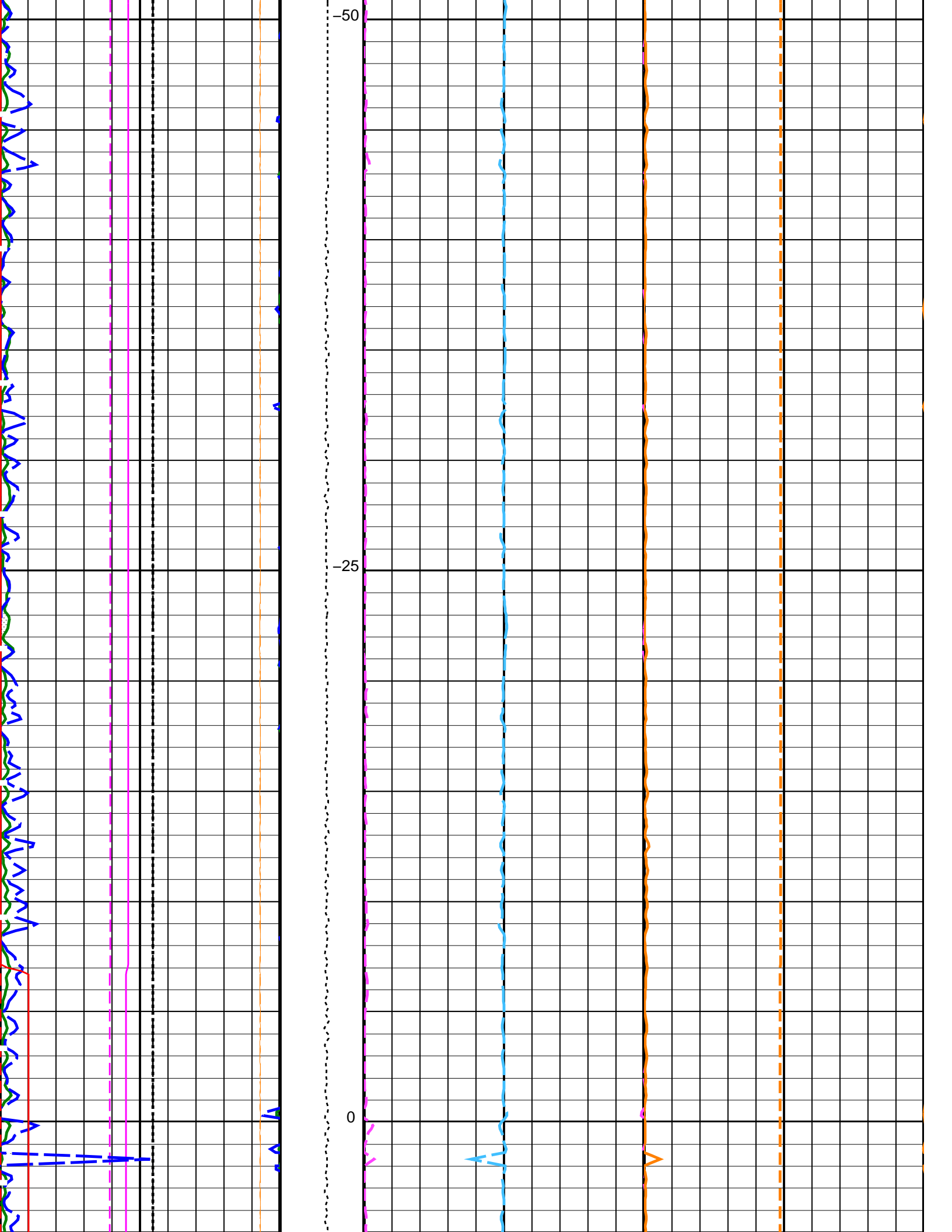
## OP System Version: 19C0-187

MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

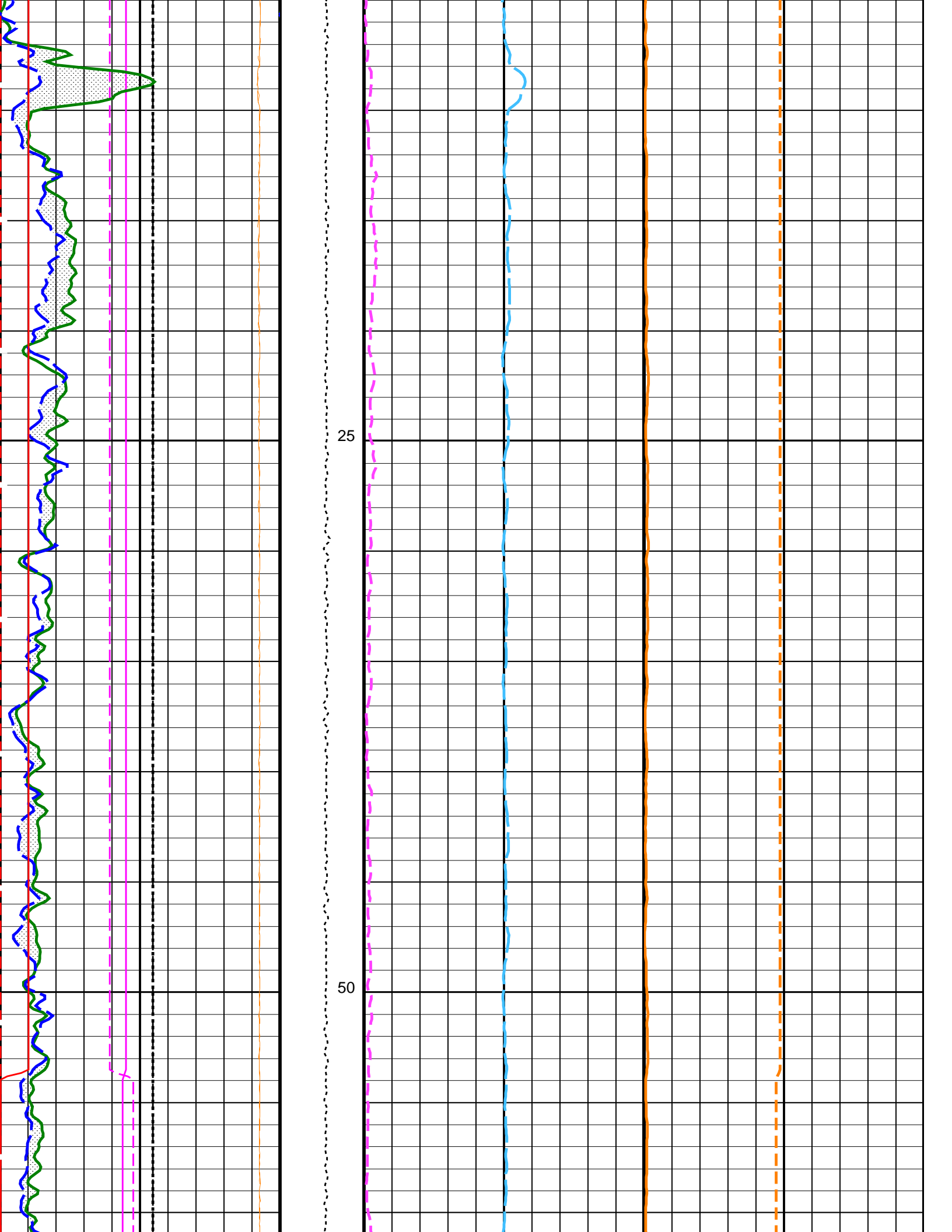
#### PIP SUMMARY

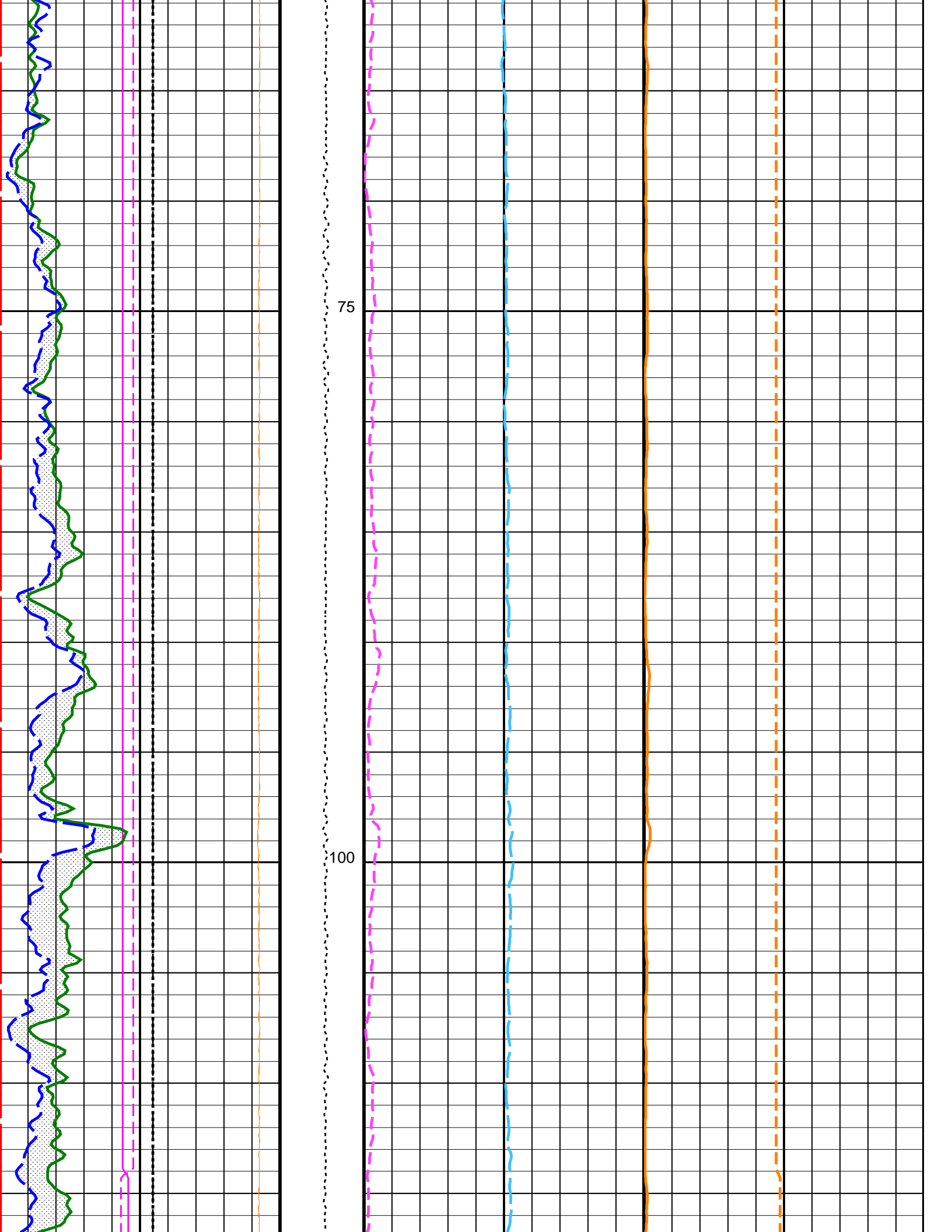
Time Mark Every 60 S

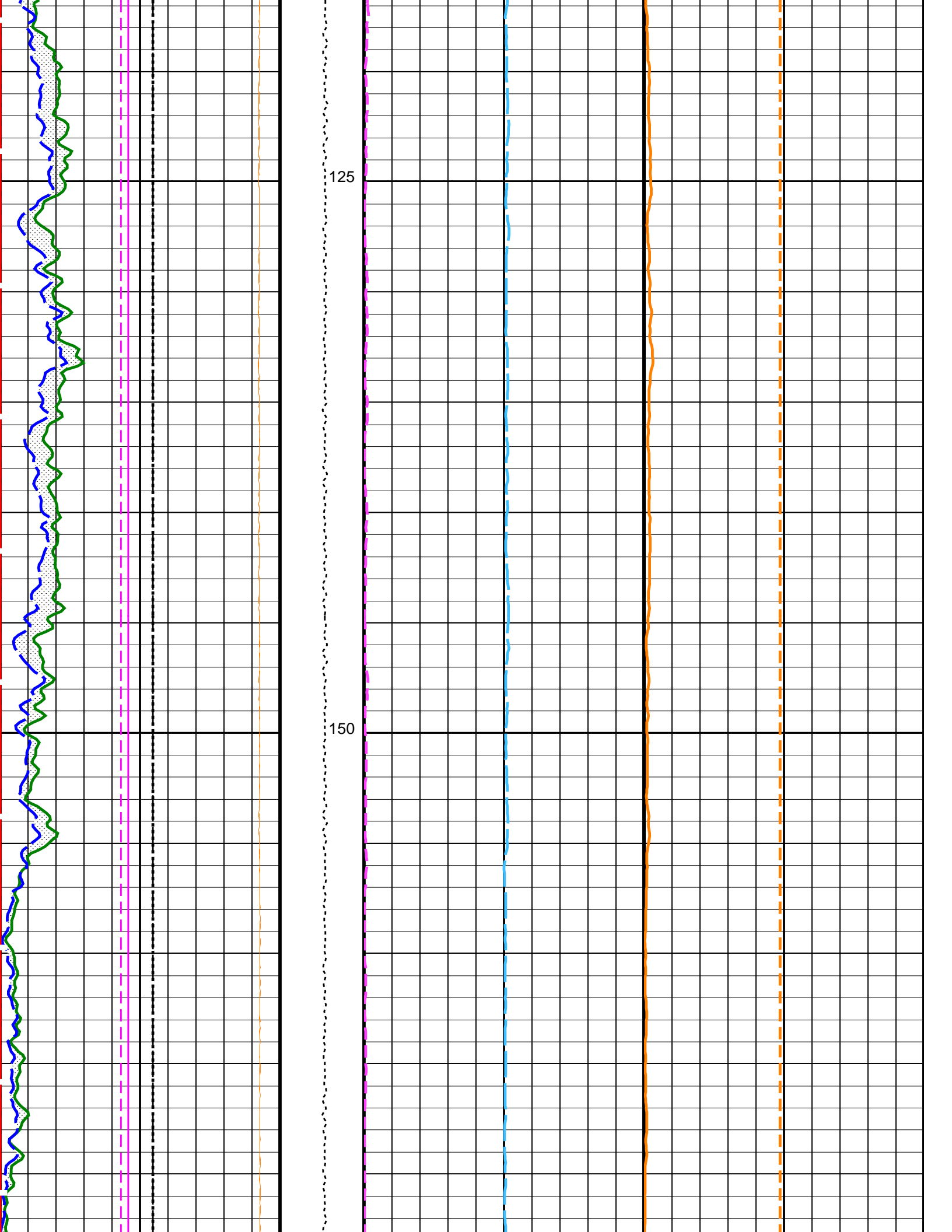


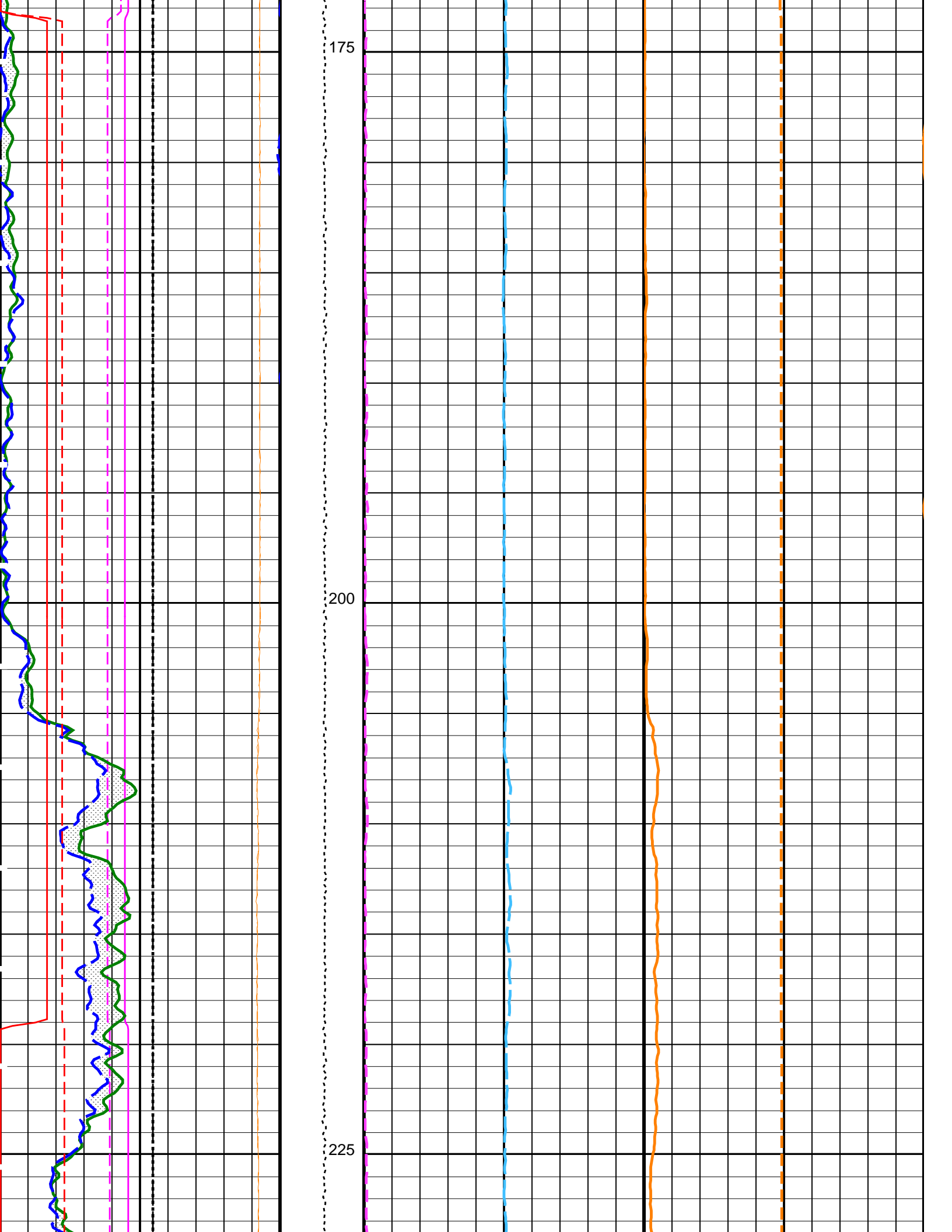


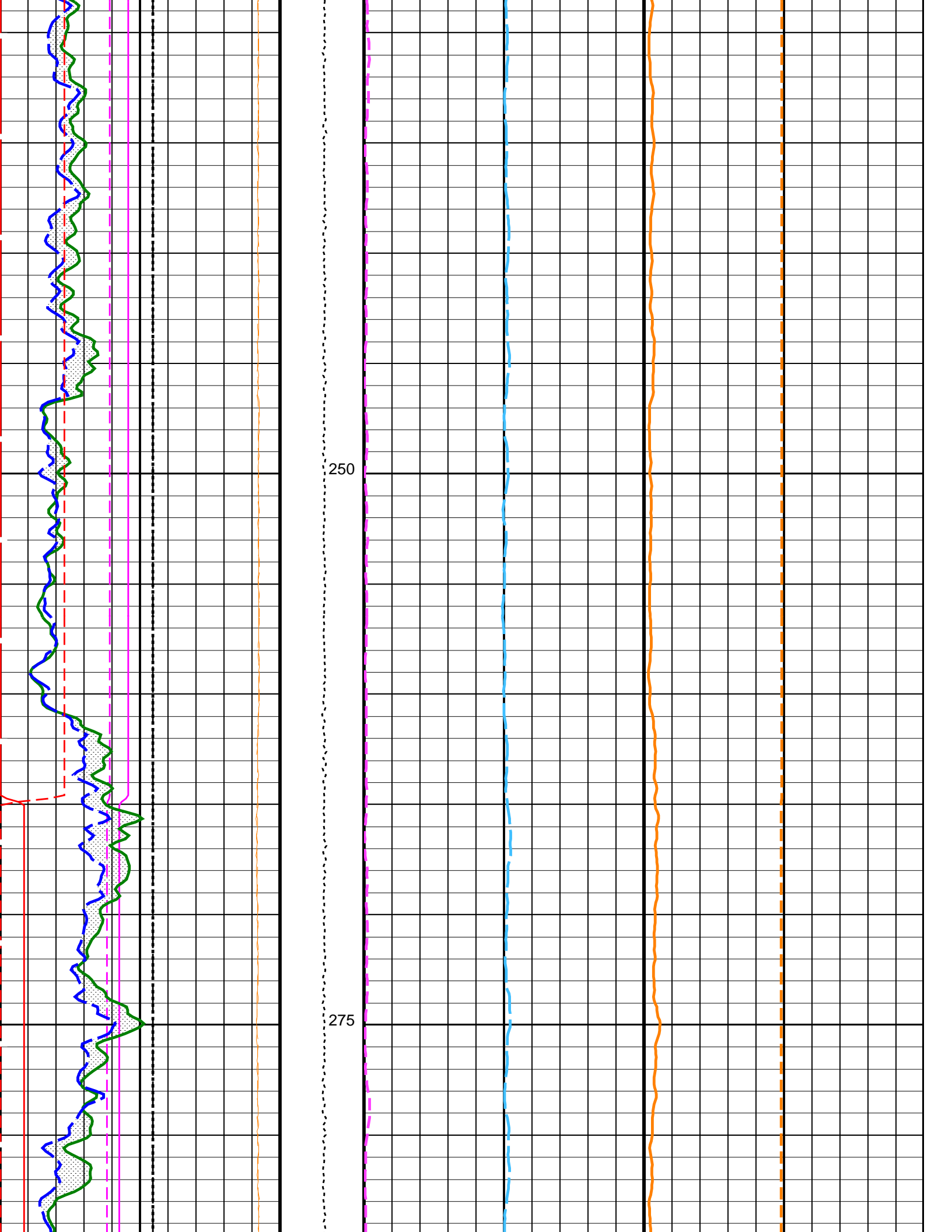


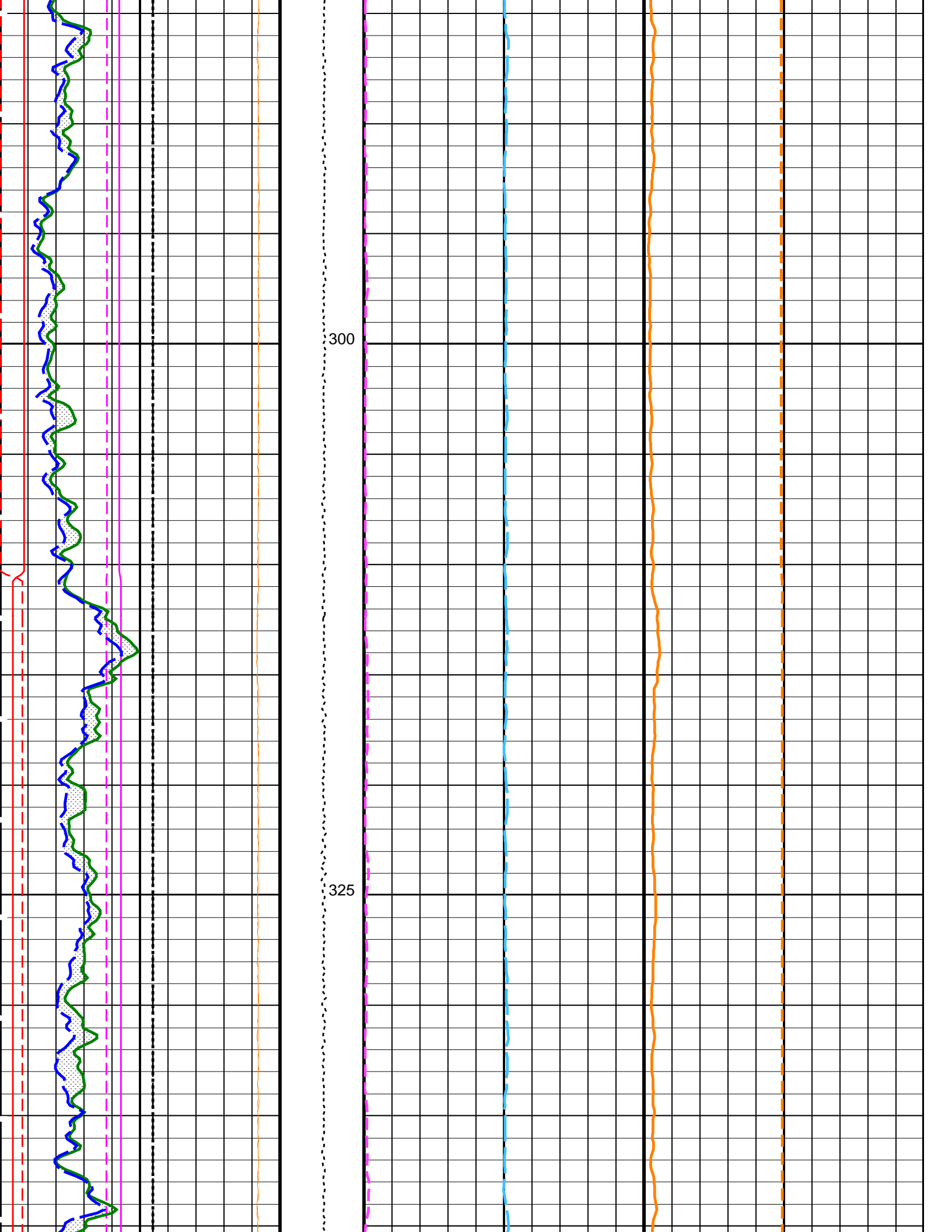


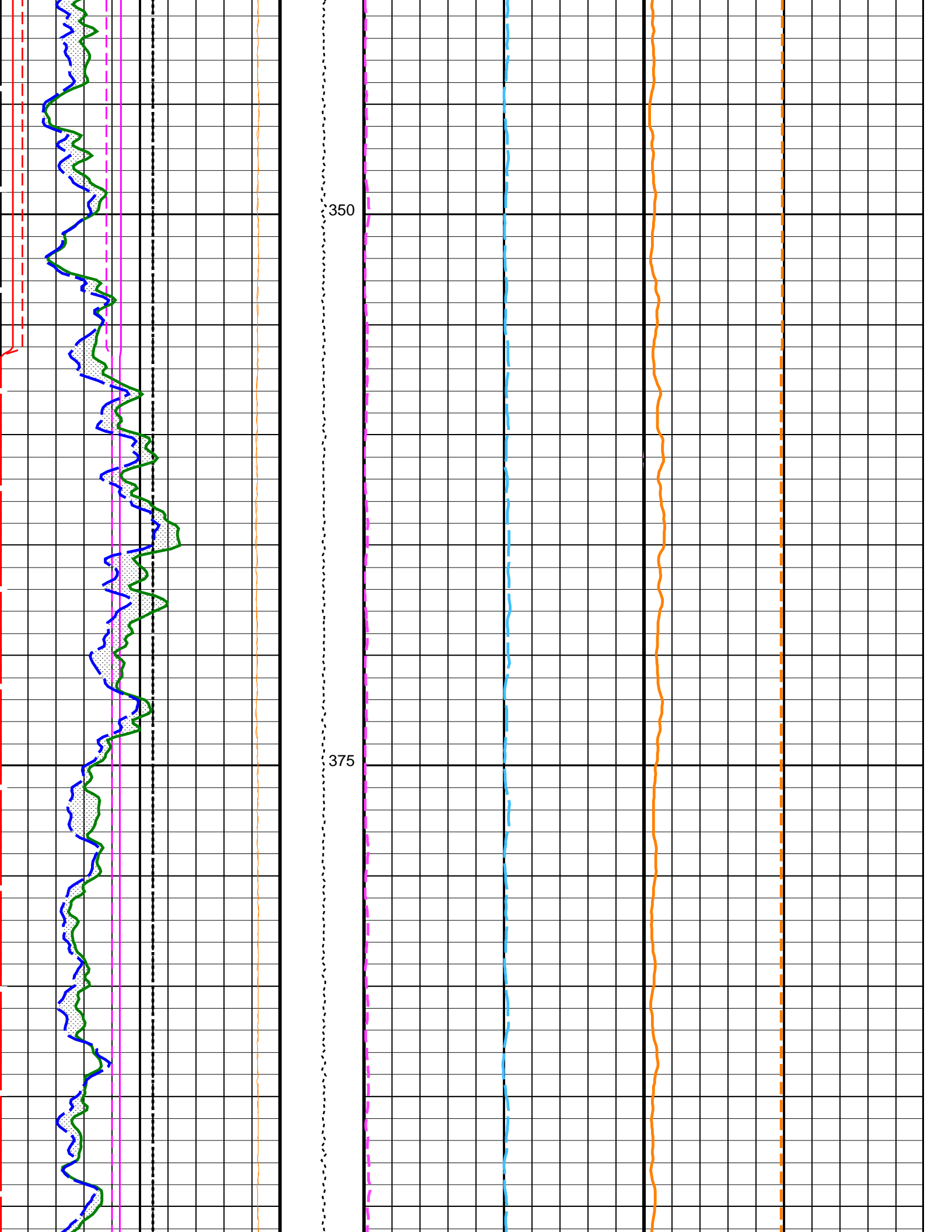


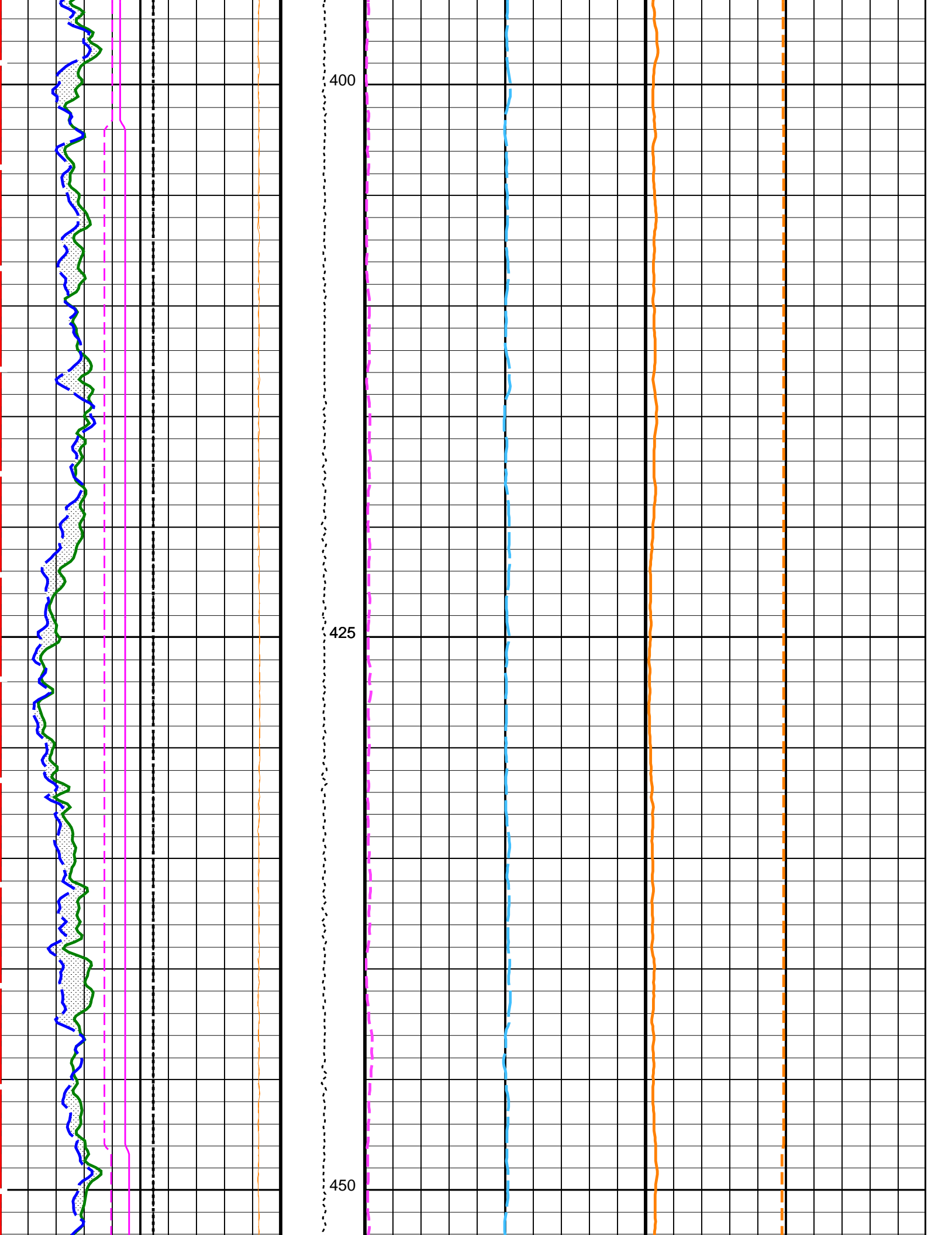




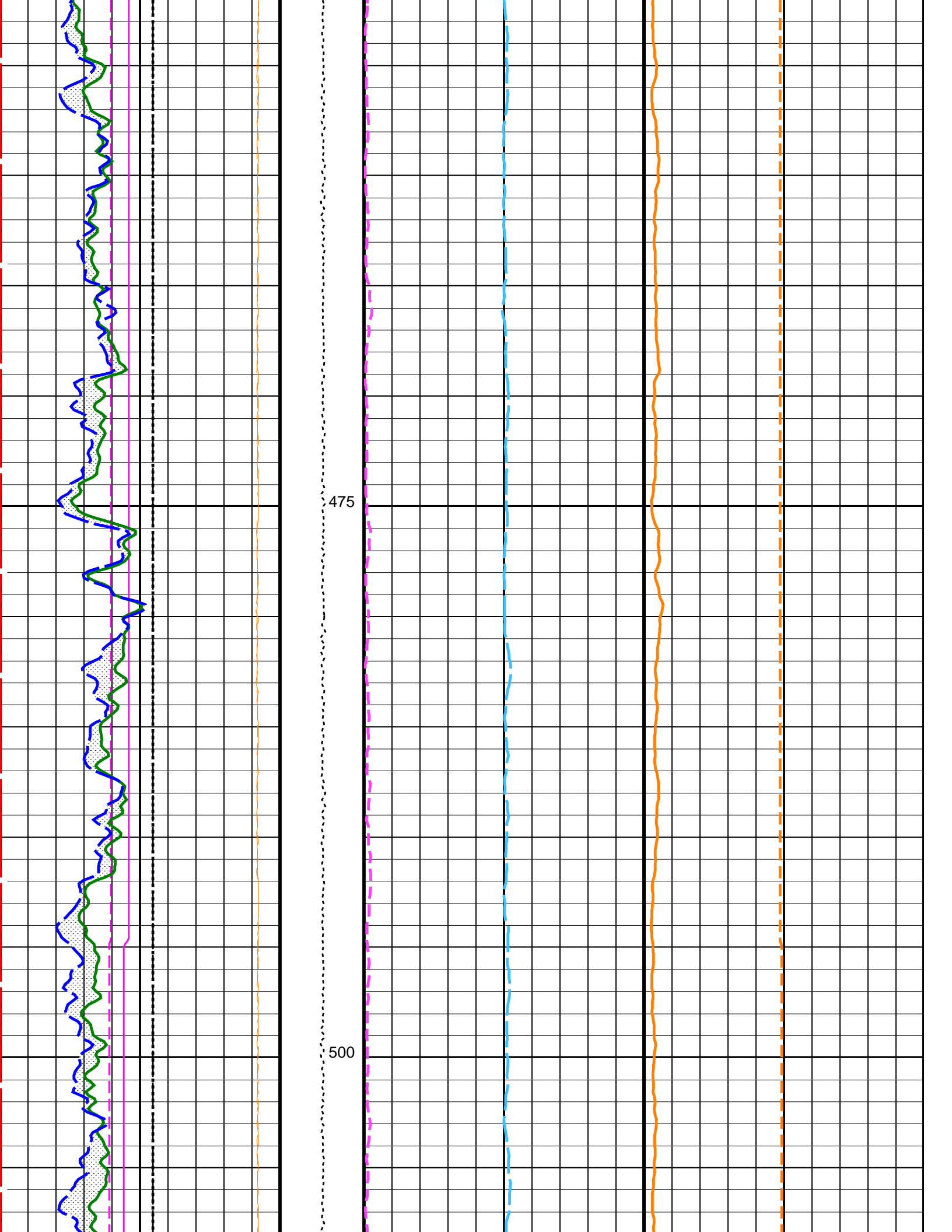


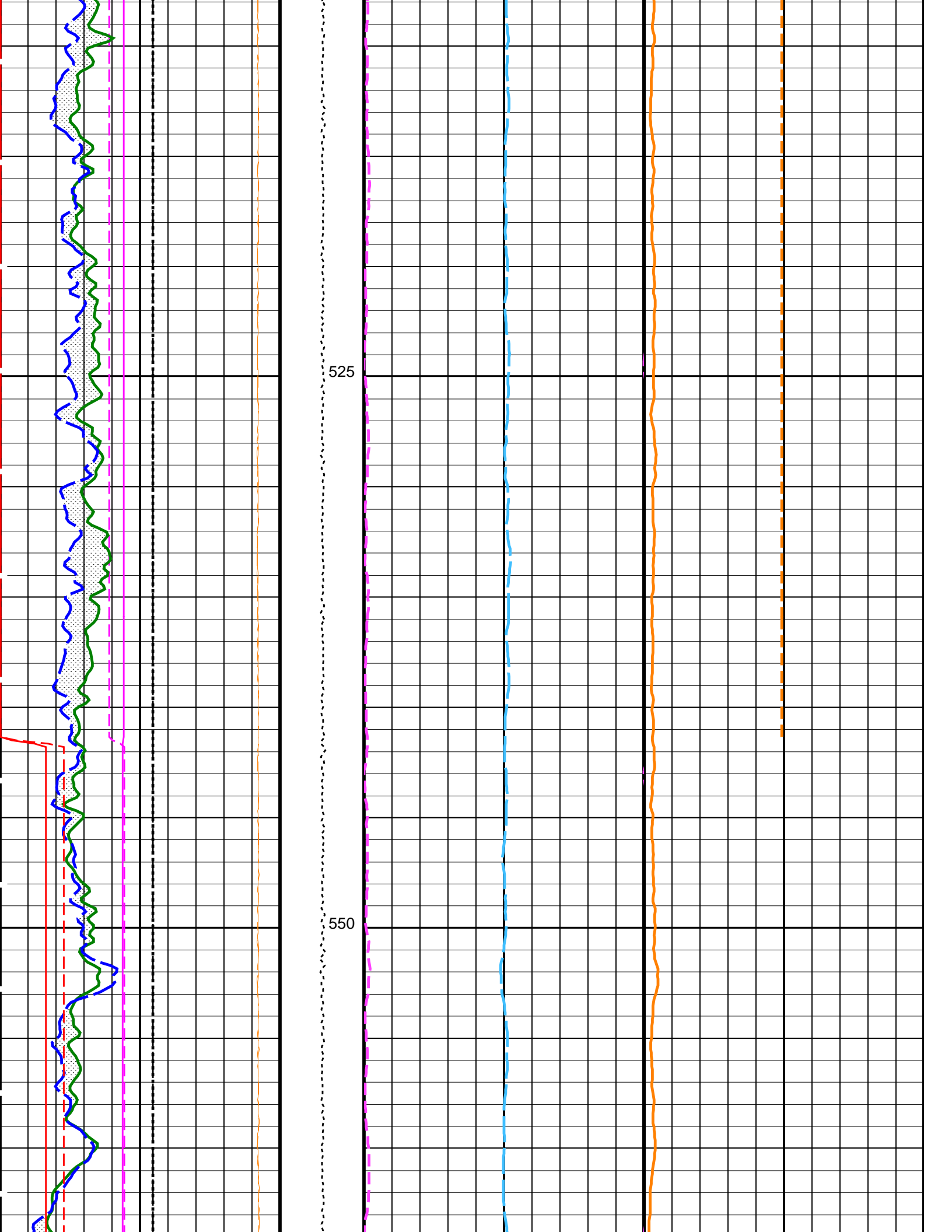


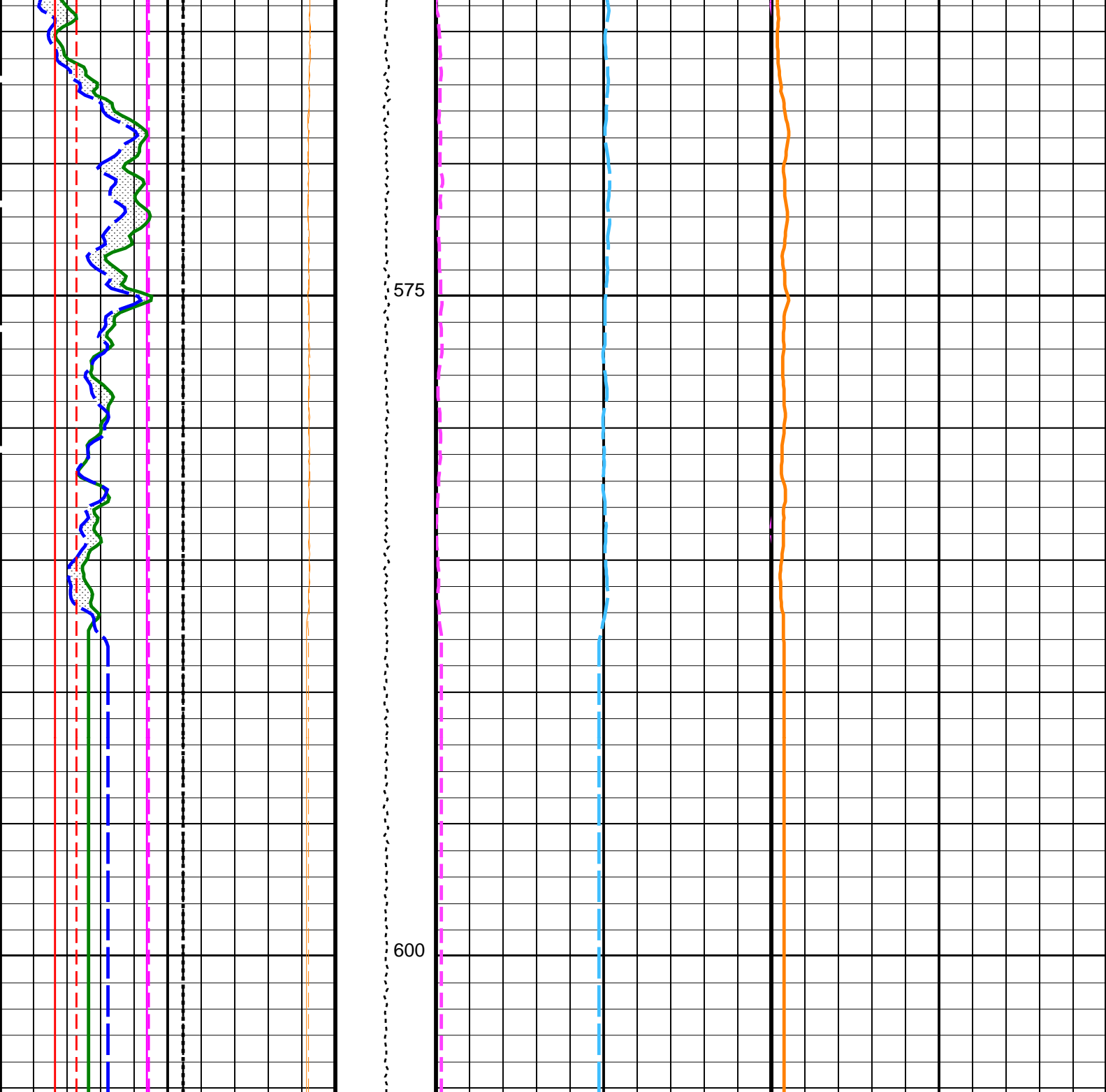












**HNGS Det.1 Chi Squared (CH11)**  
 10 (----) 0

**HNGS Det.2 Chi Squared (CH12)**  
 10 (----) 0

**Bit Size (BS)**  
 6 (IN) 16

**Caliper (BS)**  
 6 (IN) 16

**HNGS Computed Gamma Ray (HCGR)**  
 0 (GAPI) 25

**Tension (TENS) (LBF)**  
 10000 0

**HNGS Thorium (HTHO) (PPM)**  
 0 30

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

**HNGS Uranium (HURA) (PPM)**  
 -10 30

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

**Area1**

<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(-----)	1.1
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(-----)	1.1
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(-----)	10
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(-----)	10
<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	25

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
<b>HNGS-BA: Hostile Natural Gamma Ray Sonde</b>			
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	-0.00182132	
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	1.07045	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.05094	
<b>EDTC-B: Enhanced DTS Cartridge</b>			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
<b>DIR: Directional Survey Computation</b>			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
<b>System and Miscellaneous</b>			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-4488.6	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 30-Sep-2011 09:48

OP System Version: 19C0-187

MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

Input DLIS Files

## Output DLIS Files

DEFAULT MSS\_LDEO\_MTT\_NGS\_050PUP FN:56 PRODUCER 30-Sep-2011 09:48



## Run #1 Up Pass (Upper Section)

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 336, Site 395A

### Input DLIS Files

DEFAULT MSS\_LDEO\_MTT\_NGS\_025LUP FN:26 PRODUCER 24-Sep-2011 13:20 4670.3 M 4561.3 M

### Output DLIS Files

DEFAULT MSS\_LDEO\_MTT\_NGS\_049PUP FN:55 PRODUCER 30-Sep-2011 09:47 182.9 M 72.5 M

### OP System Version: 19C0-187

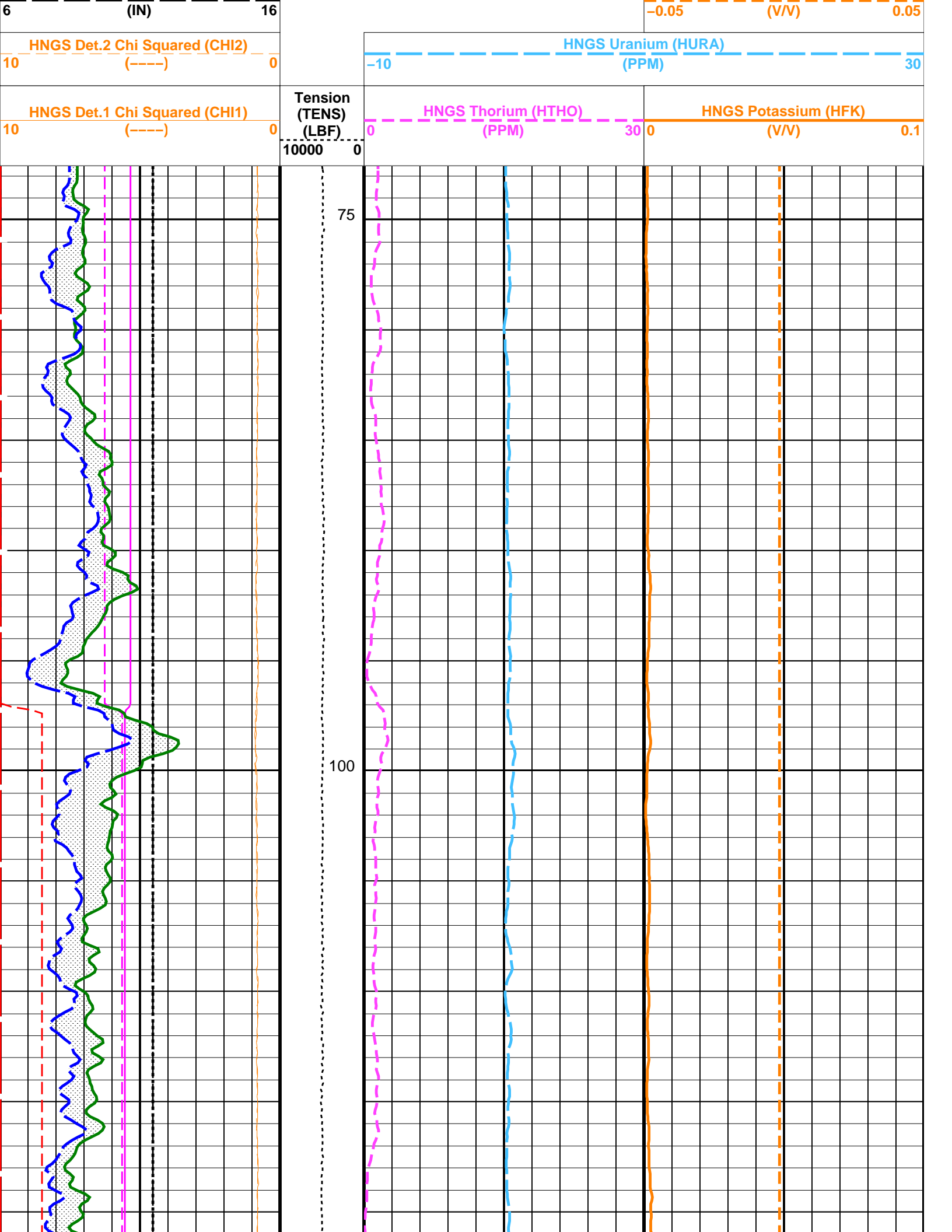
MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

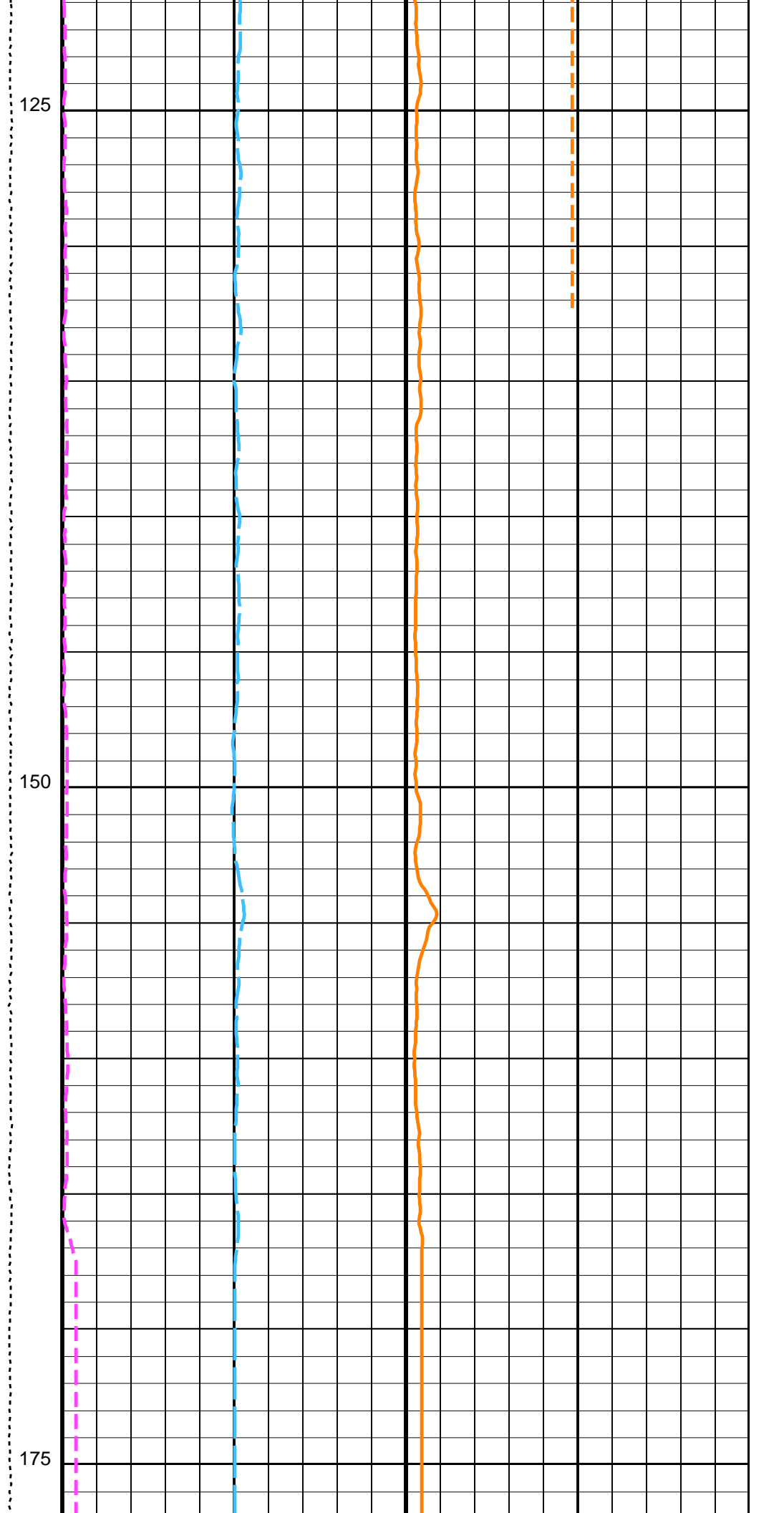
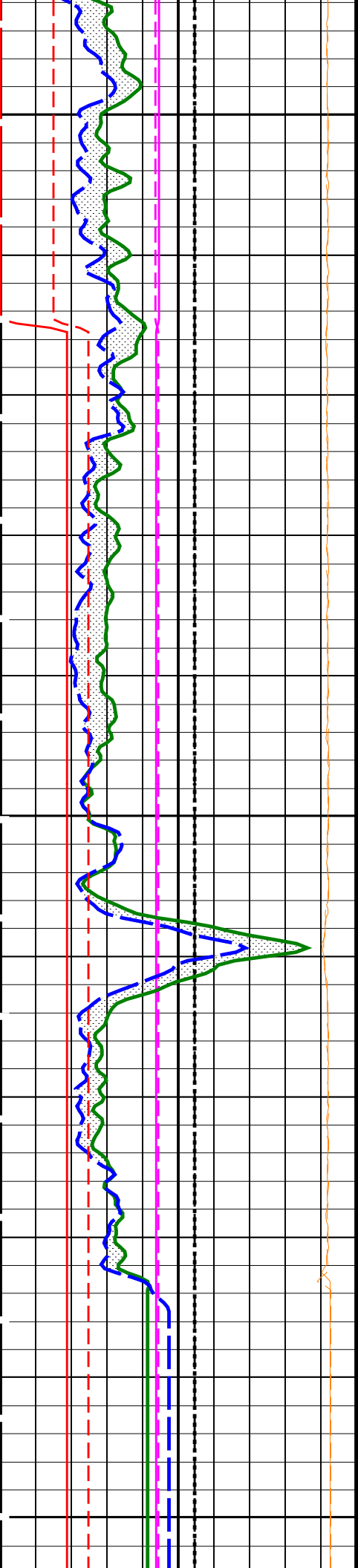
### PIP SUMMARY

Time Mark Every 60 S

<b>HNGS Spectroscopy Gamma Ray (HSGR)</b>		
0	(GAPI)	25
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(----)	10
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(----)	10
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(----)	1.1
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(----)	1.1
Area1 From HCGR to HSGR		
<b>HNGS Computed Gamma Ray (HCGR)</b>		
0	(GAPI)	25
Caliper (BS)		
6	(IN)	16
Bit Size (BS)		

HNGS Borehole Potassium (HBHK)





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
HNGS Det.2 Chi Squared (CHI2) 10 (----) 0		HNGS Uranium (HURA) (PPM) -10 30	HNGS Borehole Potassium (HBHK) (V/V) -0.05 0.05
Bit Size (BS) (IN) 6 16			
Caliper (BS) (IN) 6 16			
HNGS Computed Gamma Ray (HCGR) (GAPI) 0 25			
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) 25			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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	-0.00196841
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	1.10968	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07723	
EDTC-B: Enhanced DTS Cartridge			
BHS	Borehole Status	OPEN	
GCSE	Generalized Caliper Selection	BS	
DIR: Directional Survey Computation			
SPVD	TVD of Starting Point	0	M
TIMD	Along-hole depth of Tie-in Point	0	M
TIVD	TVD of Tie-in Point	0	M
System and Miscellaneous			
BS	Bit Size	11.438	IN
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	-4488.4	M
PP	Playback Processing	RECOMPUTE	

Format: HNGSYields    Vertical Scale: 1:200    Graphics File Created: 30-Sep-2011 09:47

### OP System Version: 19C0-187

MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

### Input DLIS Files

DEFAULT	MSS_LDEO_MTT_NGS_025LUP	FN:26	PRODUCER	24-Sep-2011 13:20	4670.3 M	4561.3 M
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### Output DLIS Files

DEFAULT	MSS_LDEO_MTT_NGS_049PUP	FN:55	PRODUCER	30-Sep-2011 09:47		
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## Run #1 Down Pass (Upper Section)

MAXIS Field Log

Company: Lamont Doherty    Well: Expedition 336, Site 395A

### Input DLIS Files

DEFAULT	Flip_MSS_LDEO_MTT_044LUP	PRODUCER	26-Sep-2011 12:13	4674.0 M	4457.7 M
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### Output DLIS Files

DEFAULT	MSS_LDEO_MTT_NGS_048PUP	FN:54	PRODUCER	30-Sep-2011 09:45	185.6 M	-30.6 M
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### OP System Version: 19C0-187

MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

### PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	25

<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b>		
0	(-----)	10
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b>		
0	(-----)	10
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b>		
0.9	(-----)	1.1
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b>		
0.9	(-----)	1.1
Area1 From HCGR to HSGR		
<b>HNGS Computed Gamma Ray (HCGR)</b>		
0	(GAPI)	25
<b>Caliper (BS)</b>		
6	(IN)	16
<b>Bit Size (BS)</b>		
6	(IN)	16

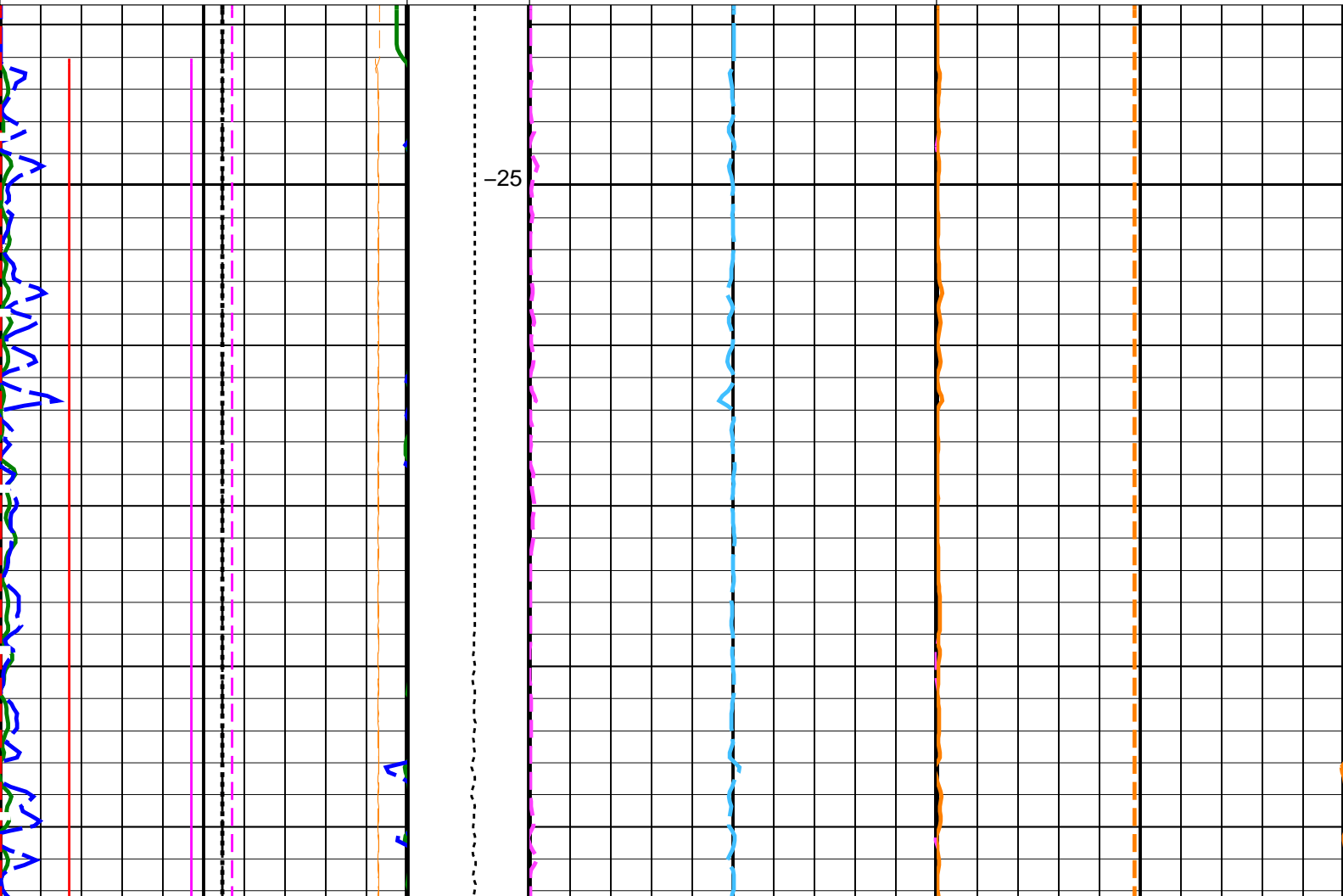
<b>HNGS Borehole Potassium (HBHK)</b>		
-0.05	(V/V)	0.05

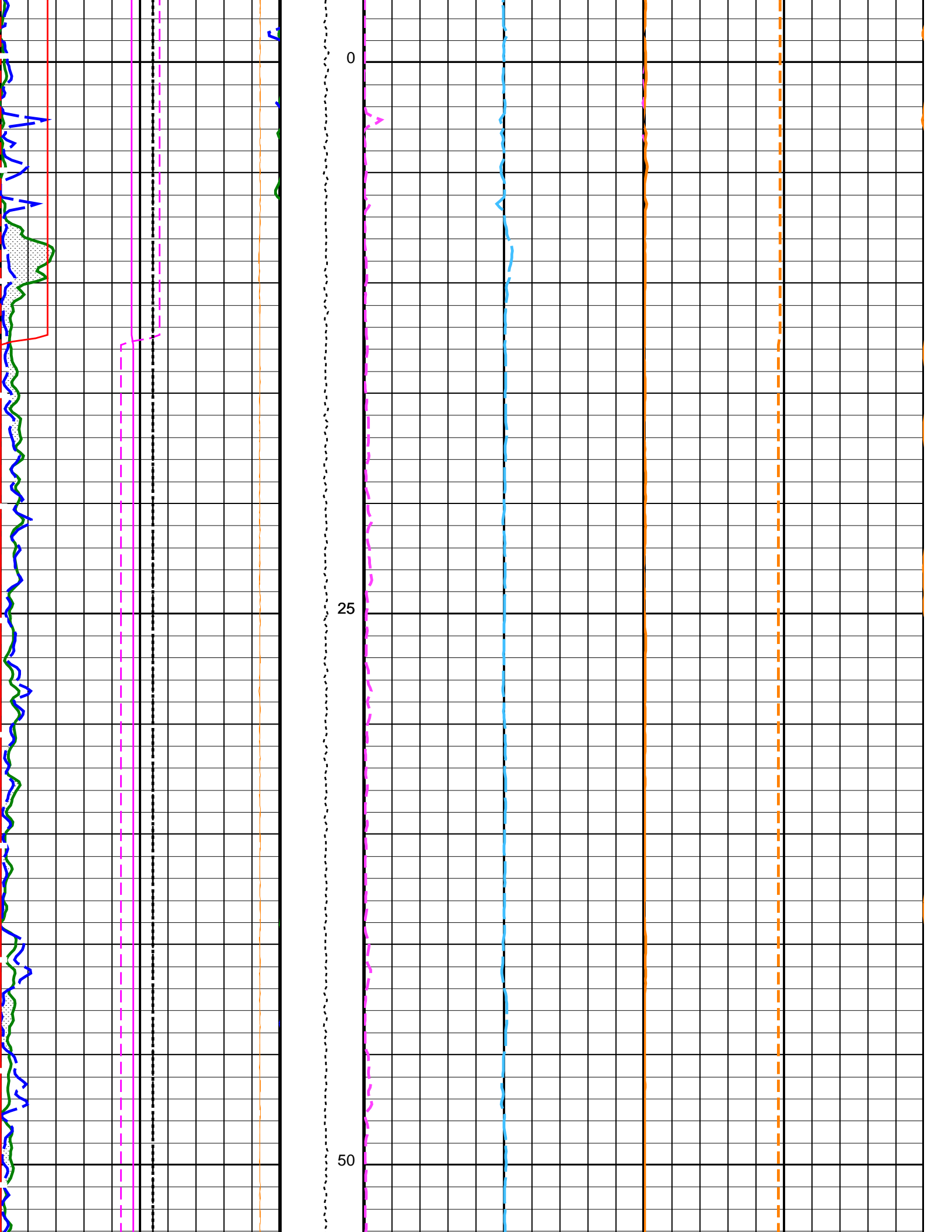
<b>HNGS Uranium (HURA)</b>		
-10	(PPM)	30

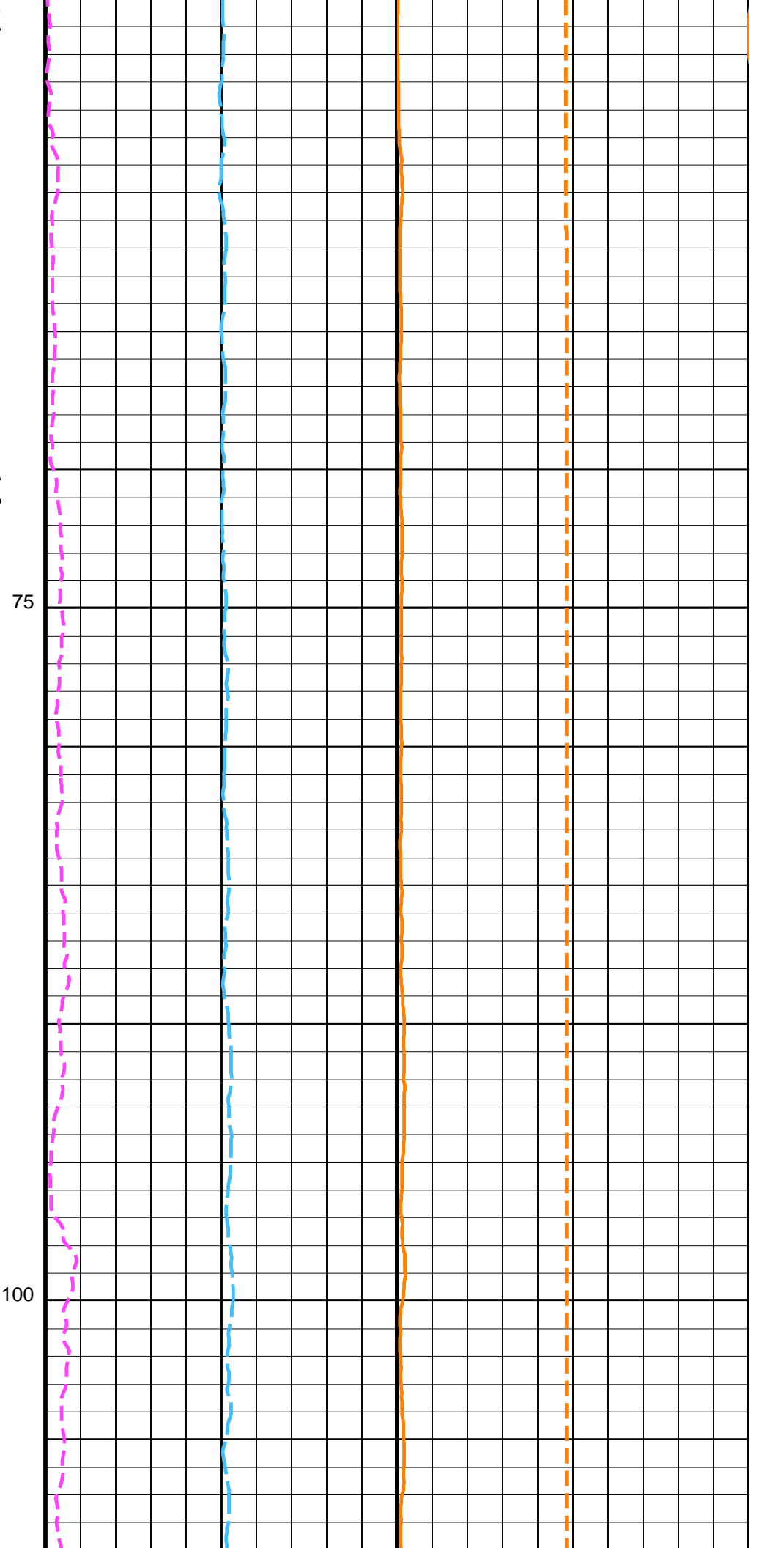
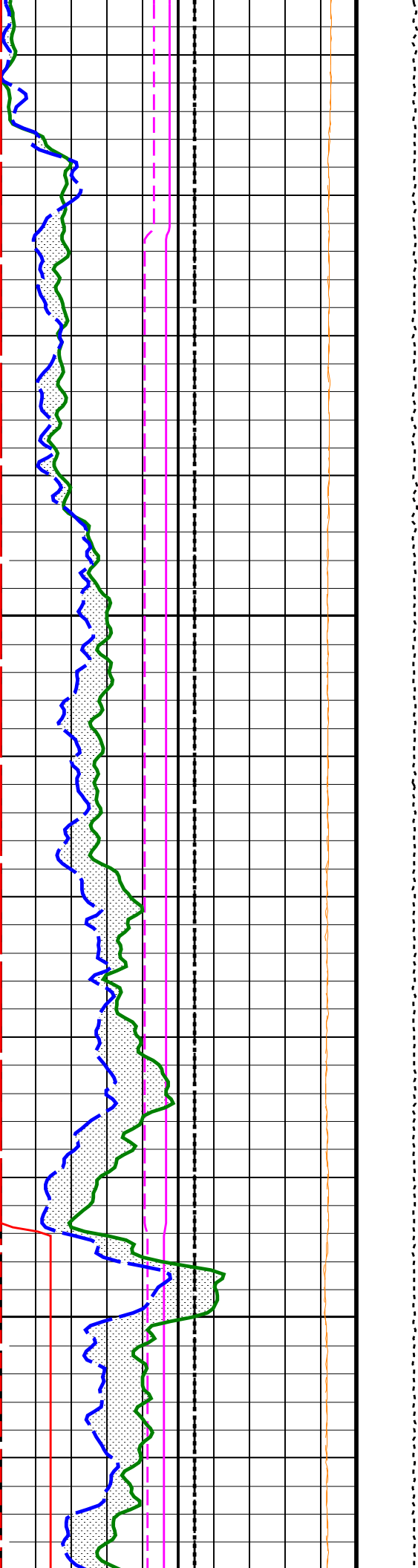
<b>HNGS Det.2 Chi Squared (CHI2)</b>		
10	(-----)	0
<b>HNGS Det.1 Chi Squared (CHI1)</b>		
10	(-----)	0

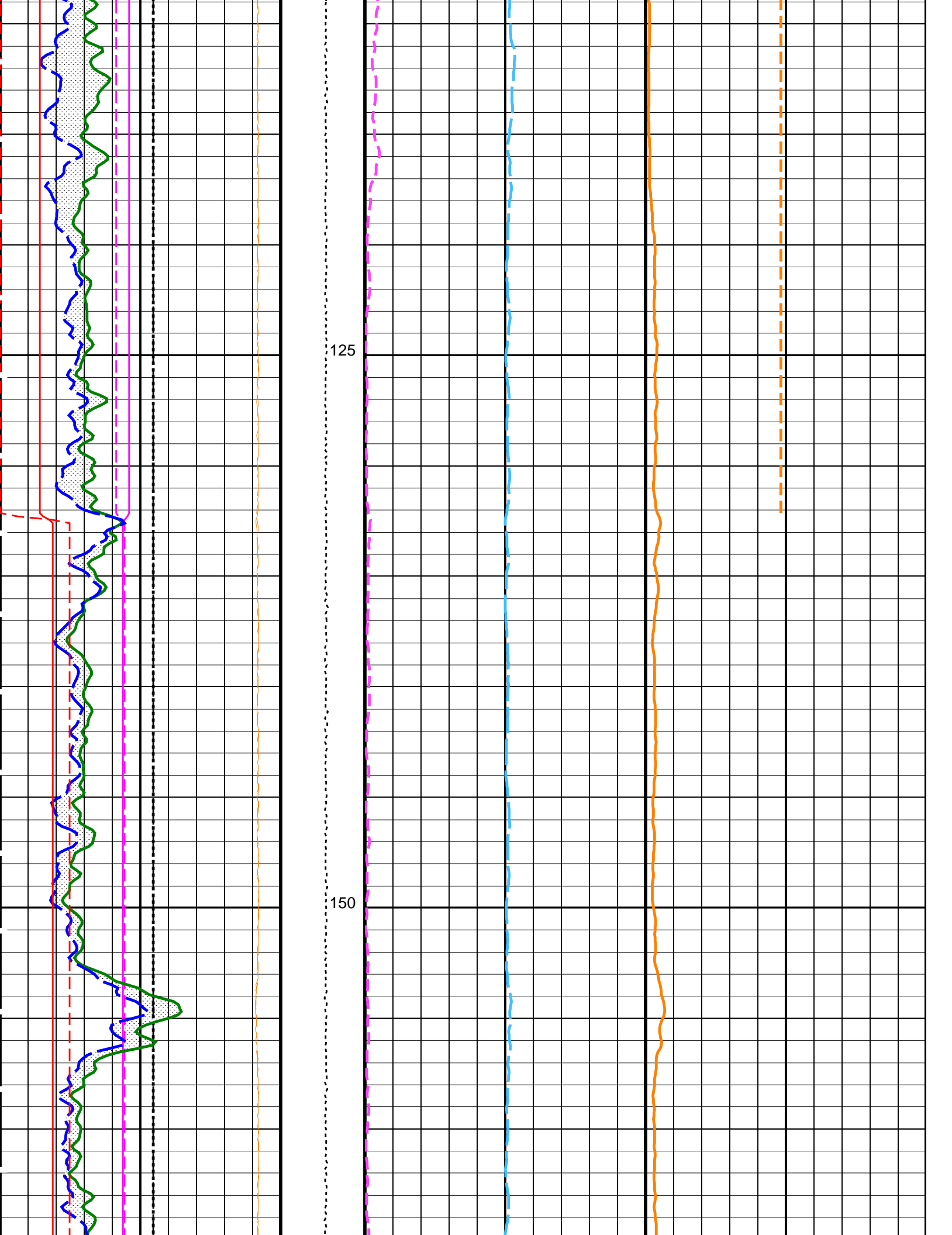
<b>Tension (TENS) (LBF)</b>		
10000	0	0
<b>HNGS Thorium (HTHO)</b>		
0	(PPM)	30

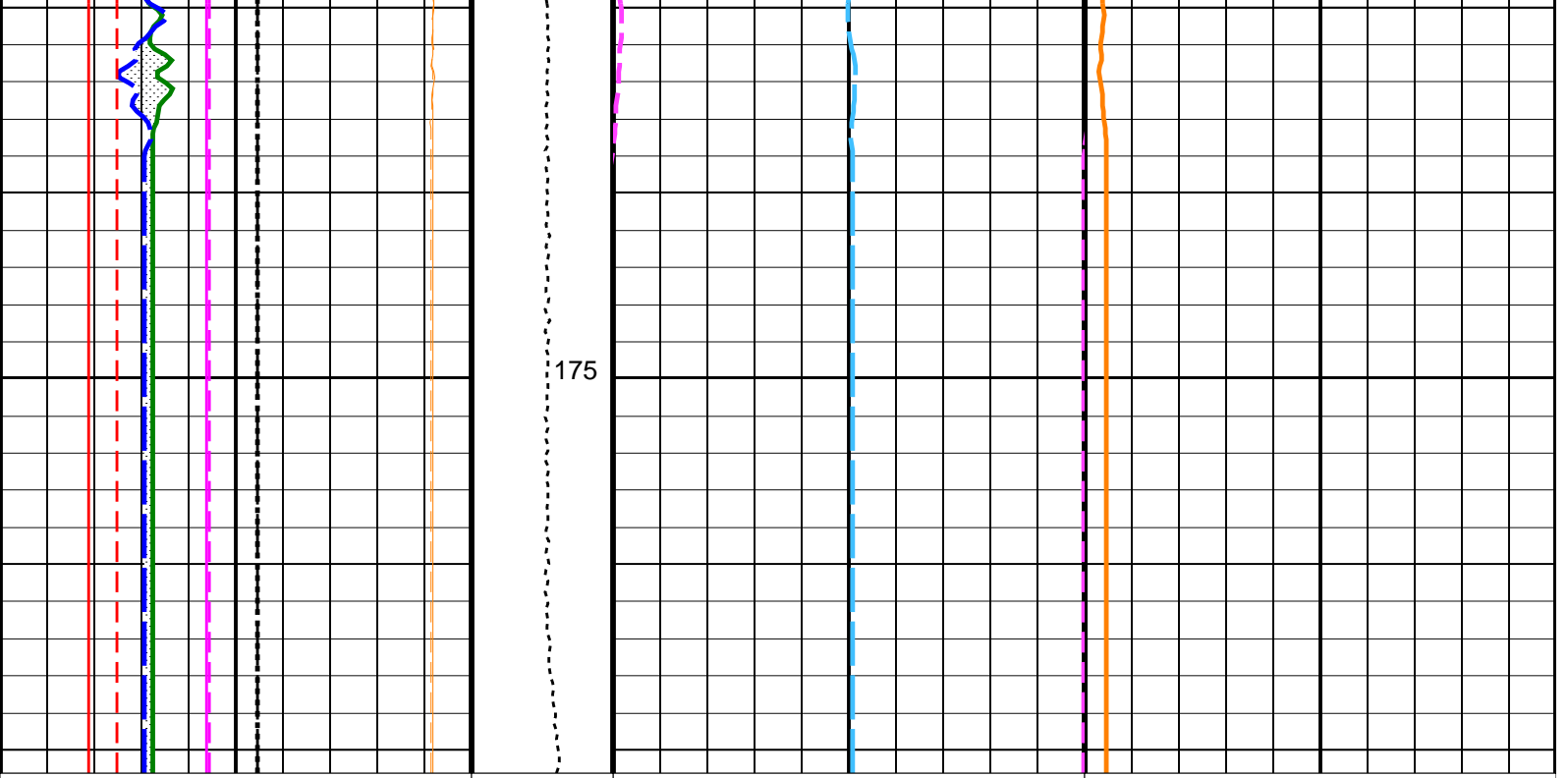
<b>HNGS Potassium (HFK)</b>		
0	(V/V)	0.1











<b>HNGS Det.1 Chi Squared (CHI1)</b> 10 (----) 0	<b>Tension (TENS) (LBF)</b> 10000 0	<b>HNGS Thorium (HTHO) (PPM)</b> 0 30	<b>HNGS Potassium (HFK) (V/V)</b> 0 0.1
<b>HNGS Det.2 Chi Squared (CHI2)</b> 10 (----) 0		<b>HNGS Uranium (HURA) (PPM)</b> -10 30	
<b>Bit Size (BS) (IN)</b> 6 16			<b>HNGS Borehole Potassium (HBHK) (V/V)</b> -0.05 0.05
<b>Caliper (BS) (IN)</b> 6 16			
<b>HNGS Computed Gamma Ray (HCGR) (GAPI)</b> 0 25			
Area1 From HCGR to HSGR			
<b>HNGS Det.1 Gain Correction Factor (GCF1)</b> 0.9 (----) 1.1			
<b>HNGS Det.2 Gain Correction Factor (GCF2)</b> 0.9 (----) 1.1			
<b>HNGS Det.1 Resolution Degradation Factor (RDF1)</b> 0 (----) 10			
<b>HNGS Det.2 Resolution Degradation Factor (RDF2)</b> 0 (----) 10			
<b>HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)</b> 0 25			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
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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	-0.00150222
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	1.09308
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.07162
EDTC-B: Enhanced DTS Cartridge		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
DIR: Directional Survey Computation		
SPVD	TVD of Starting Point	0 M
TIMD	Along-hole depth of Tie-in Point	0 M
TIVD	TVD of Tie-in Point	0 M
System and Miscellaneous		
BS	Bit Size	11.438 IN
DFD	Drilling Fluid Density	1.26 G/C3
DO	Depth Offset for Playback	-4488.3 M
PP	Playback Processing	RECOMPUTE

Format: HNGSYields    Vertical Scale: 1:200    Graphics File Created: 30-Sep-2011 09:45

### OP System Version: 19C0-187

MSS_LDEO-DEBIT	19C0-187	MTT_LDEO-A	19C0-187
GPIT-A/B	19C0-187	DTA-A	19C0-187
HNGC-B	19C0-187	HNGS-BA	19C0-187
EDTC-B	19C0-187		

### Input DLIS Files

DEFAULT	Flip_MSS_LDEO_MTT_044LUP	PRODUCER	26-Sep-2011 12:13	4674.0 M	4457.7 M
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### Output DLIS Files

DEFAULT	MSS_LDEO_MTT_NGS_048PUP	FN:54	PRODUCER	30-Sep-2011 09:45
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## Calibrations

MAXIS Field Log

#### Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
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General Purpose Inclinometer Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY

Before: 24-Sep-2011 19:02

TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	10	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	448	N/A	N/A	N/A	

General Purpose Inclinometer Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY

Before: 24-Sep-2011 19:02

TEMPERATURE REFERENCE :	N/A	N/A	19	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	99	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	428	N/A	N/A	N/A	

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 15-Sep-2011 14:01 Before: 24-Sep-2011 19:09 After: 25-Sep-2011 5:48

Na 511 Peak Loc	40.00	39.54	39.53	39.57	0.04684	1.000	
Na 511 Peak Res	15.50	16.51	15.69	15.84	0.1456	2.000	%
High Voltage	1150	1190	1183	1182	-1.335	N/A	V
Na 1785 Peak Loc	142.6	141.9	142.3	142.1	-0.1839	7.000	
Na 1785 Peak Res	8.500	8.871	8.471	8.728	0.2569	2.000	%
Temperature	15.50	35.19	33.30	30.04	-3.260	N/A	DEGC
Na Count Rate	45.00	22.03	20.73	20.05	-0.6786	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 15-Sep-2011 14:01 Before: 24-Sep-2011 19:09 After: 25-Sep-2011 5:48

Na 511 Peak Loc	40.00	39.52	39.59	39.61	0.01897	1.000	
Na 511 Peak Res	15.50	16.45	16.40	15.82	-0.5830	2.000	%
High Voltage	1150	1121	1117	1112	-4.265	N/A	V
Na 1785 Peak Loc	142.6	142.5	142.1	142.2	0.1593	7.000	
Na 1785 Peak Res	8.500	8.764	8.240	8.822	0.5819	2.000	%
Temperature	15.50	35.72	33.28	31.28	-1.996	N/A	DEGC
Na Count Rate	45.00	22.83	21.10	19.92	-1.188	8.000	CPS

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

Master: 15-Sep-2011 14:01 Before: 24-Sep-2011 19:09 After: 25-Sep-2011 5:48

Coincidence Count Rate Ratio	1.000	0.9670	0.9842	1.007	0.02317	0.05000	
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General Purpose Inclinometer / Equipment Identification

Primary Equipment:			
GPIT Cartridge – AC		GPIC – AC	719
Auxiliary Equipment:			
GPIT Housing		GPIH – A	

Hostile Natural Gamma Ray Cartridge – B / Equipment Identification

Primary Equipment:			
HNGC Cartridge		HNGC – B	300
Auxiliary Equipment:			
HNGC Housing		HNGH – A	115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:			
HNGS Sonde		HNGS – BA	194
Auxiliary Equipment:			
HNGS Sonde Housing		HNSH – BA	205
Gamma Source Radioactive		GSR – U	616008

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		39.54	Master		16.51	Master		1190



Before		39.53	Before		15.69	Before		1183
After		39.57	After		15.84	After		1182
37.50 (Minimum) 40.00 (Nominal) 43.50 (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		141.9	Master		8.871	Master		35.19
Before		142.3	Before		8.471	Before		33.30
After		142.1	After		8.728	After		30.04
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		22.03						
Before		20.73						
After		20.05						
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								
Master: 15-Sep-2011 14:01			Before: 24-Sep-2011 19:09			After: 25-Sep-2011 5:48		

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		39.52	Master		16.45	Master		1121
Before		39.59	Before		16.40	Before		1117
After		39.61	After		15.82	After		1112
37.50 (Minimum) 40.00 (Nominal) 43.50 (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		142.5	Master		8.764	Master		35.72
Before		142.1	Before		8.240	Before		33.28
After		142.2	After		8.822	After		31.28
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		22.83						
Before		21.10						
After		19.92						
10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)								
Master: 15-Sep-2011 14:01			Before: 24-Sep-2011 19:09			After: 25-Sep-2011 5:48		

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9670
Before		0.9842
After		1.007
0.9500 (Minimum) 1.000 (Nominal) 1.050 (Maximum)		
Master: 15-Sep-2011 14:01		
Before: 24-Sep-2011 19:09		
After: 25-Sep-2011 5:48		

Company: **Lamont Doherty**

**Schlumberger**

Well: **Expedition 336, Site 395A**

Field: **North Pond**

Rig: **JOIDES Resolution**

Country: **USA**

**HNGS**