

Company: Lamont Doherty
Well: Expedition 318 Site U1359D
Field: Wilkes Land
Rig: JOIDES Resolution **Country:** Antarctica

Rig: JOIDES Resolution Field: Wilkes Land Location: Latitude: S 64.904 Deg Well: Expedition 318 Site U1359D Company: Lamont Doherty		Natural Gamma Ray Spectroscopy (HNGS)	
LOCATION Latitude: S 64.904 Deg Longitude: E 143.9593 Deg		Elev.: K.B. 11.00 m G.L. -3012.00 m D.F. 11.00 m	
Permanent Datum: _____ Mean Sea Level _____ Log Measured From: _____ Drill Floor _____ Drilling Measured From: _____ Drill Floor _____		Elev.: 0.00 m 11.00 m above Perm. Datum	
API Serial No. _____			

Logging Date	23-Feb-2010	
Run Number	1	
Depth Driller	3625.2 m	
Schlumberger Depth	3626 m	
Bottom Log Interval	3594 m	
Top Log Interval	3010 m	
Casing Driller Size @ Depth	0.000 in @ 3119.9 m	
Casing Schlumberger	3122 m	
Bit Size	9.875 in	
Type Fluid In Hole	Sepiolite Sea Water Gel	
Density	1.22 g/cm3	
Fluid Loss	PH	
Source Of Sample		
RM @ Measured Temperature	@ @	
RMF @ Measured Temperature	@ @	
RMC @ Measured Temperature	@ @	
Source RMF	RMC	
RM @ MRT	RMF @ MRT	
Maximum Recorded Temperatures	12 degC @ 12 @	
Circulation Stopped	Time	
Logger On Bottom	23-Feb-2010 12:40	
Unit Number	625003 Webster	
Recorded By	K. Swain	
Witnessed By	T. Williams, A. Fehr	

Logging Date	23-Feb-2010		Run 1	Run 2	Run
Run Number	1				
Depth Driller	3625.2 m				
Schlumberger Depth	3626 m				
Bottom Log Interval	3594 m				
Top Log Interval	3010 m				
Casing Driller Size @ Depth	0.000 in @ 3119.9 m				
Casing Schlumberger	3122 m				
Bit Size	9.875 in				
Type Fluid In Hole	Sepiolite Sea Water Gel				
Density	1.22 g/cm3				
Fluid Loss	PH				
Source Of Sample					
RM @ Measured Temperature	@ @				
RMF @ Measured Temperature	@ @				
RMC @ Measured Temperature	@ @				
Source RMF	RMC				
RM @ MRT	RMF @ MRT				
Maximum Recorded Temperatures	12 degC @ 12 @				
Circulation Stopped	Time				
Logger On Bottom	23-Feb-2010 12:40				
Unit Number	625003 Webster				
Recorded By	K. Swain				
Witnessed By	T. Williams, A. Fehr				

DISCLAIMER
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OTHER SERVICES1

OS1: APS/HLDS
 OS2: FMS/DSI
 OS3: VSI
 OS4:
 OS5:

OTHER SERVICES2

OS1:
 OS2:
 OS3:
 OS4:
 OS5:

REMARKS: RUN NUMBER 1

Depths referenced from rig floor in mbrf.

Tools run slick without stand offs as per normal operation to fit inside pipe.

Logging is performed through drill pipe for open hole logging.

MCD-G centralizer tools run above and below Dipole Sonic to provide centralization for Sonic tool.

REMARKS: RUN NUMBER 2

RUN 1

SERVICE ORDER #: 17C0-154
 PROGRAM VERSION:
 FLUID LEVEL:

RUN 2

SERVICE ORDER #:
 PROGRAM VERSION:
 FLUID LEVEL:

LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP




EQUIPMENT DESCRIPTION

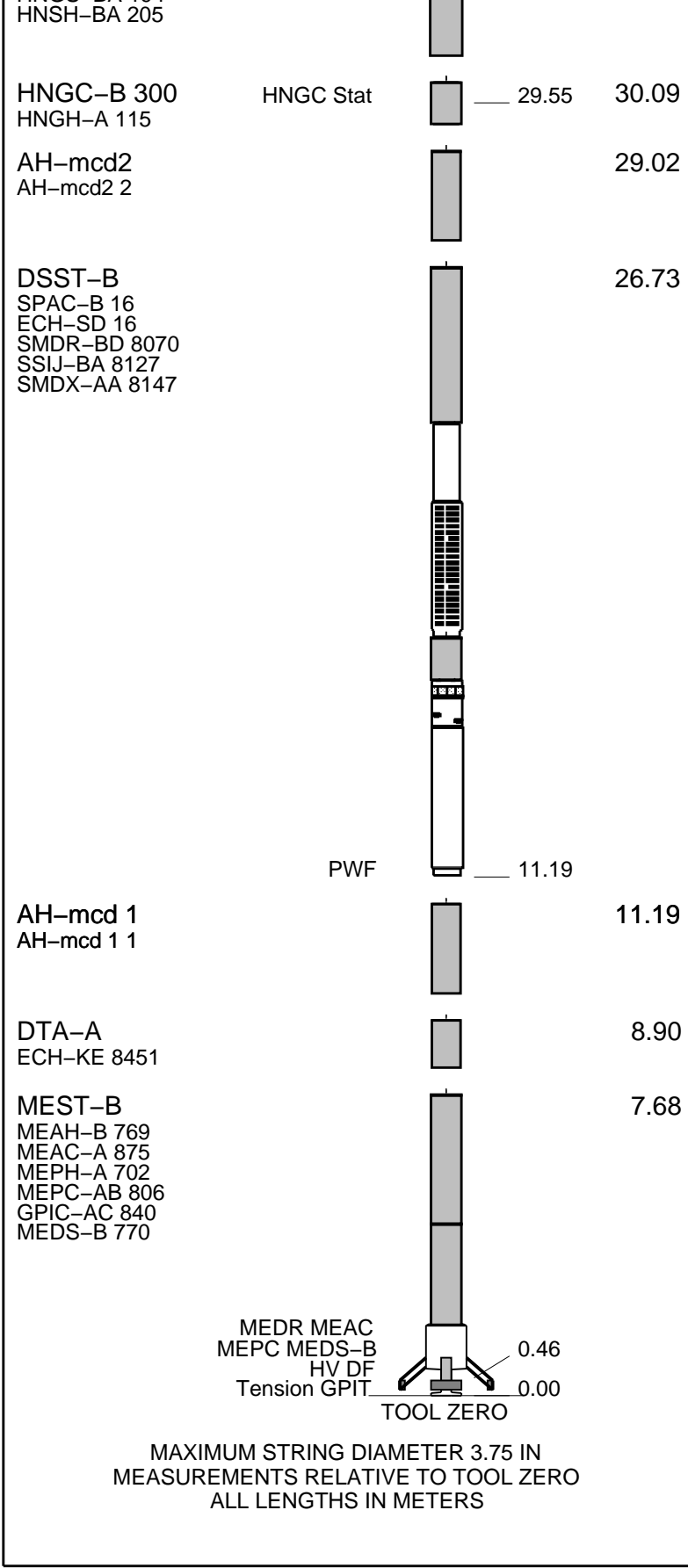
RUN 1 **RUN 2**

SURFACE EQUIPMENT

GSR-U 616008
 WITM (DTS)-A

DOWNHOLE EQUIPMENT

LEH-QT			34.39	
LEH-QT 1750				
DTC-H	CTEM		33.22	
ECH-KC 9842	TelStatus		33.50	
	ToolStatu		32.59	
HNGS-BA 194	Upper_1		31.89	
HNGS-BA 194	Lower_2		32.59	
			31.67	



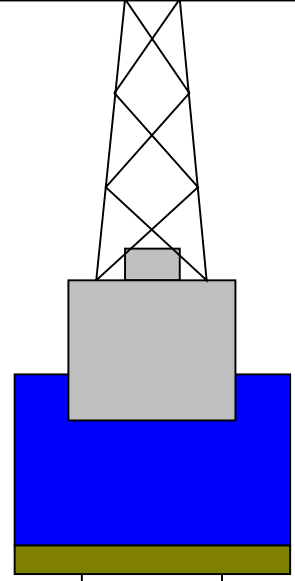
Production String	(in)	(M)	Well Schematic	(M)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation
Derrick Floor Elevation

11.0
11.0

Mean Sea Level

0.0



3023 4.20

Sea Floor



3023 9.875

3119.9 3.80

Borehole Segment

Open Hole

3625.2

Output DLIS Files

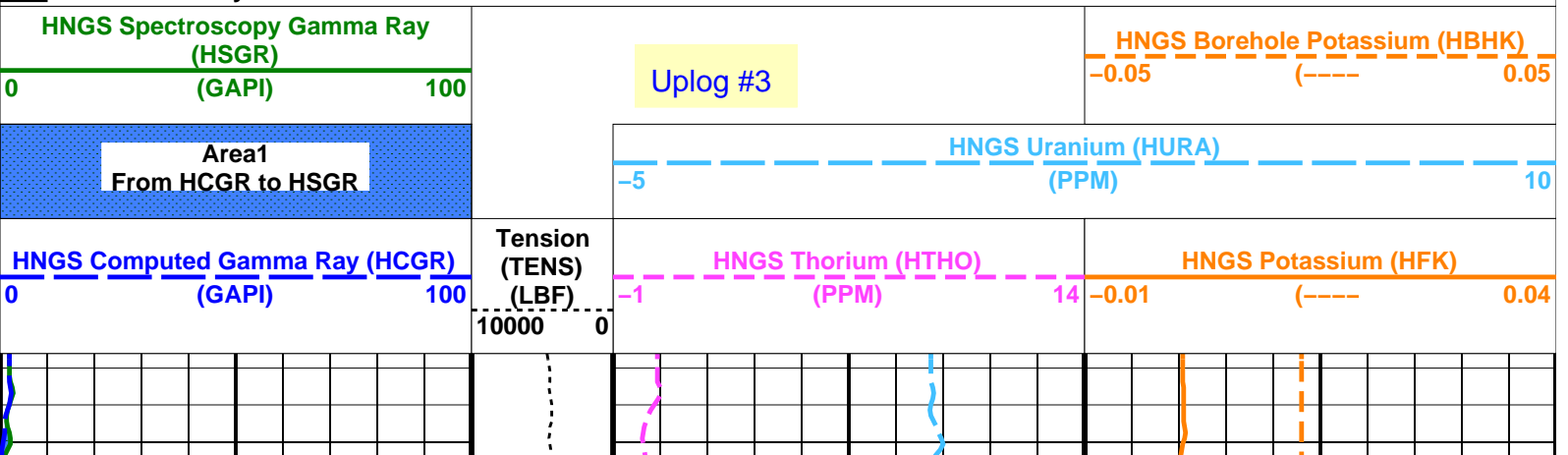
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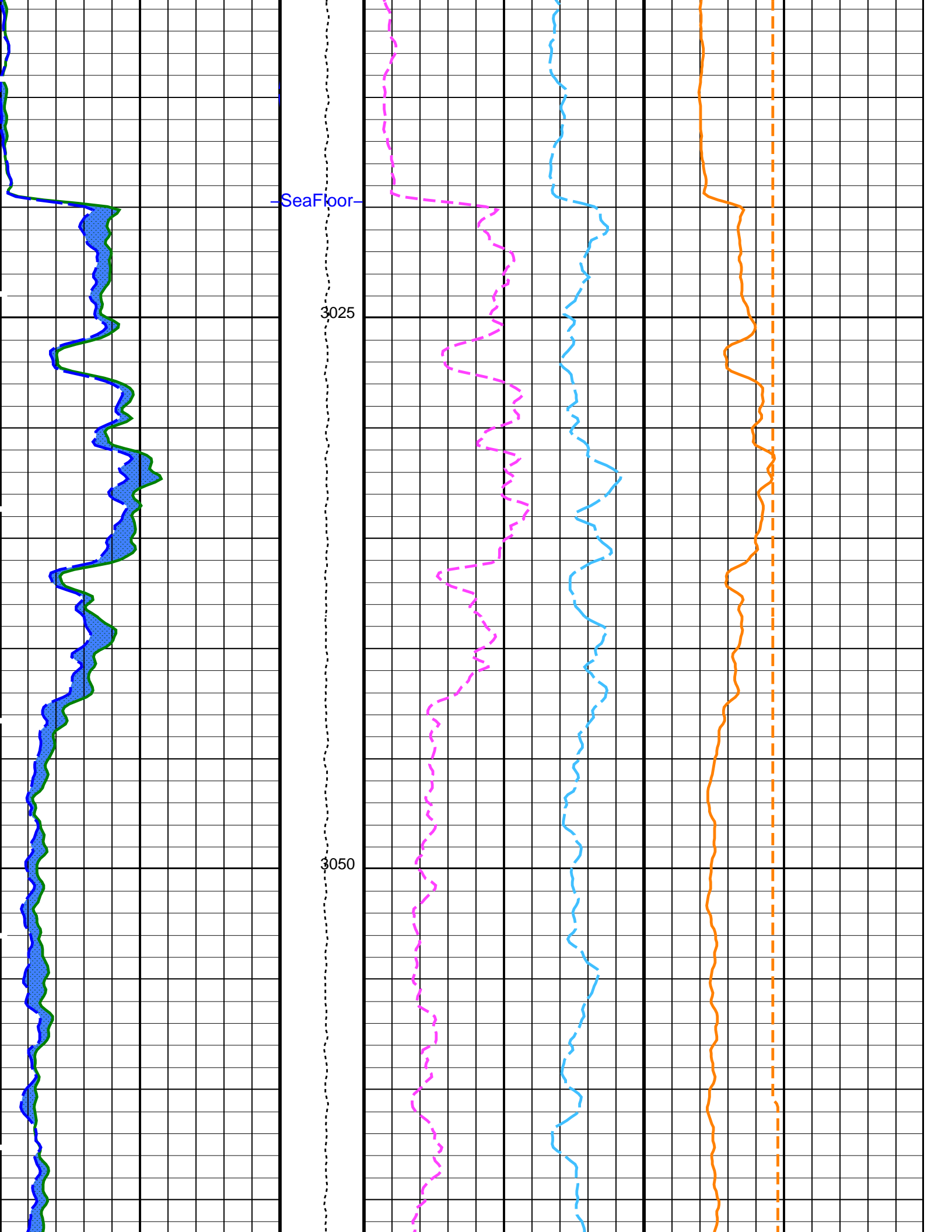
OP System Version: 17C0-154

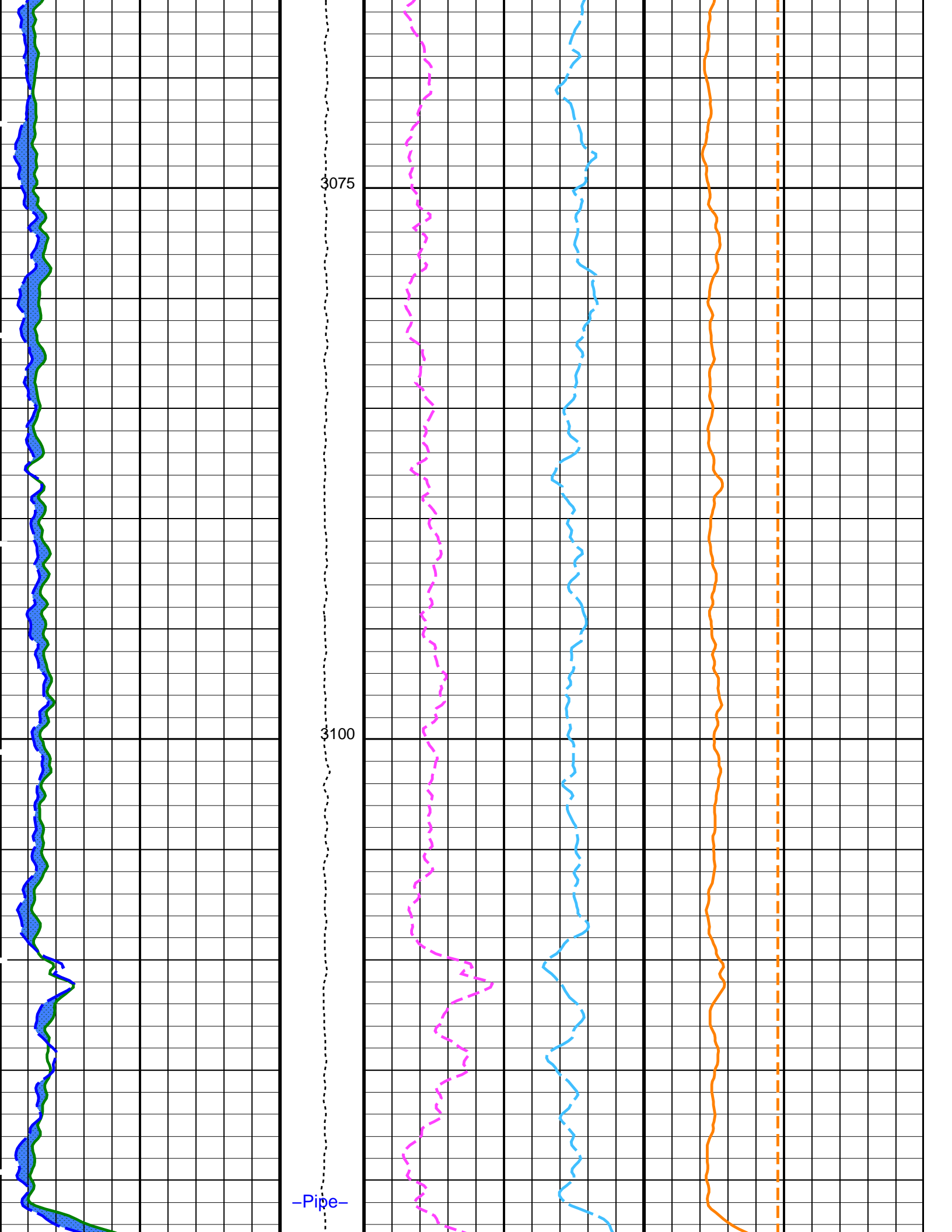
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DSST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	17C0-154	DTC-H	17C0-154

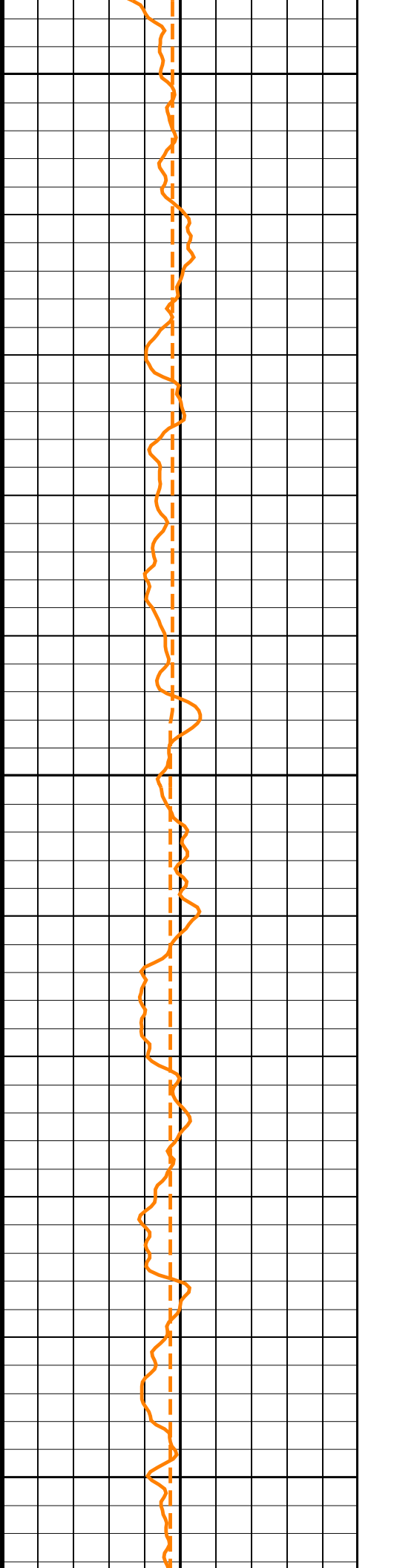
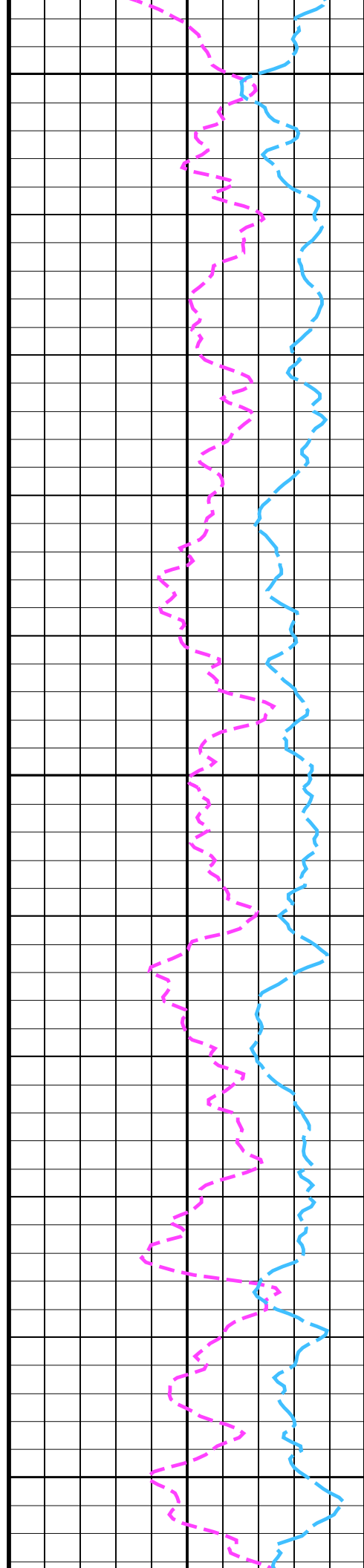
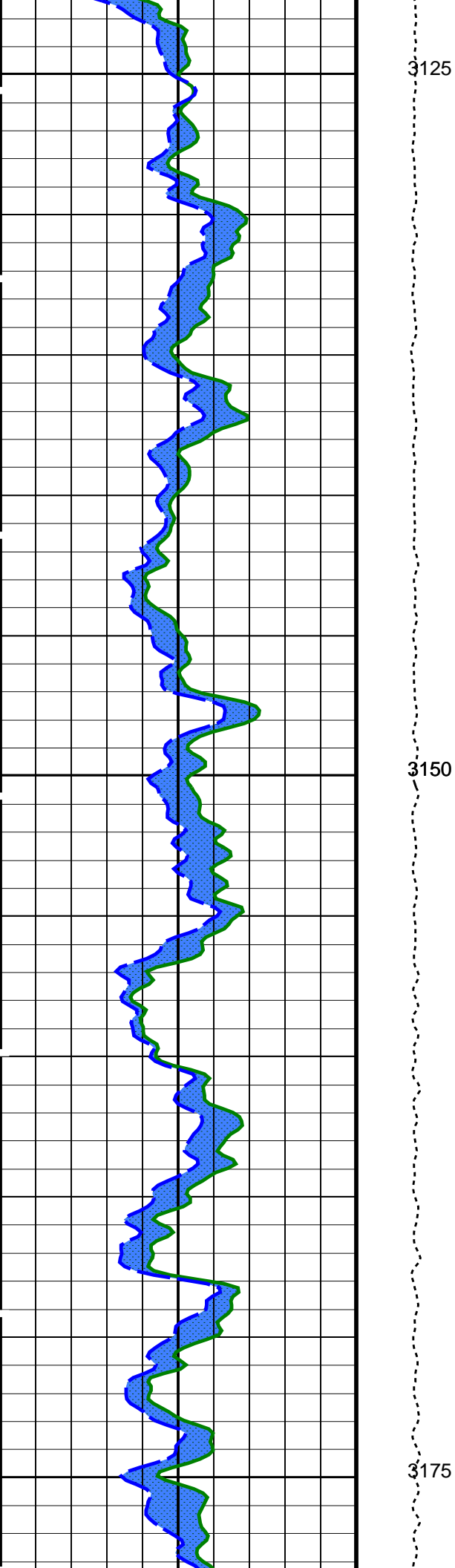
PIP SUMMARY

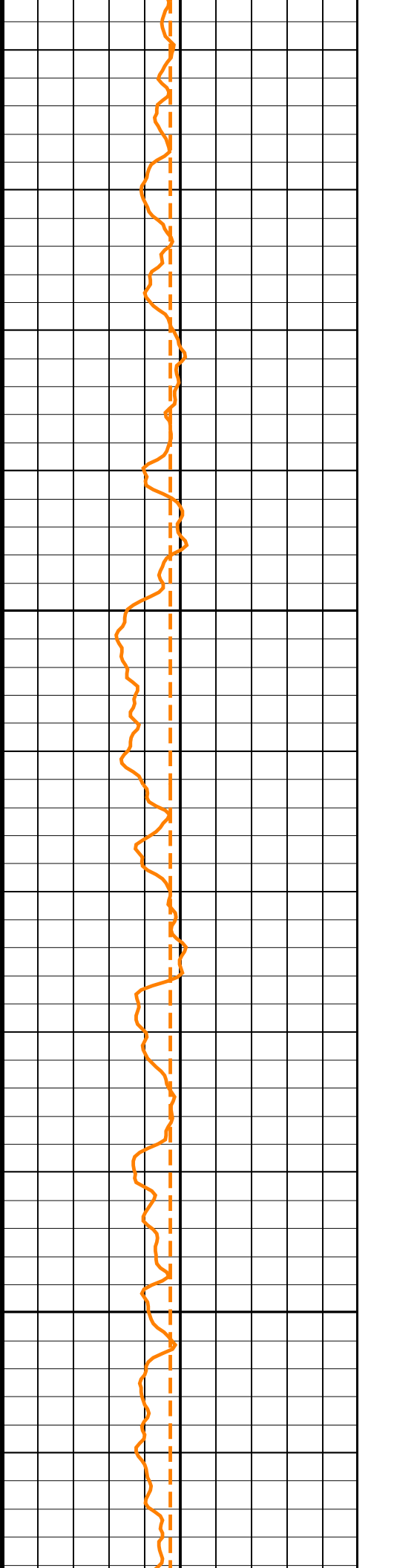
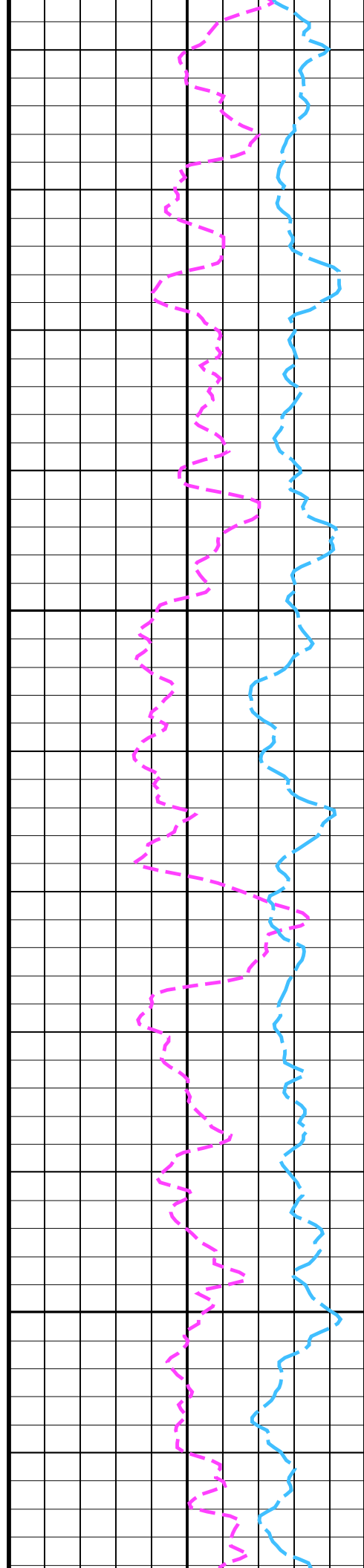
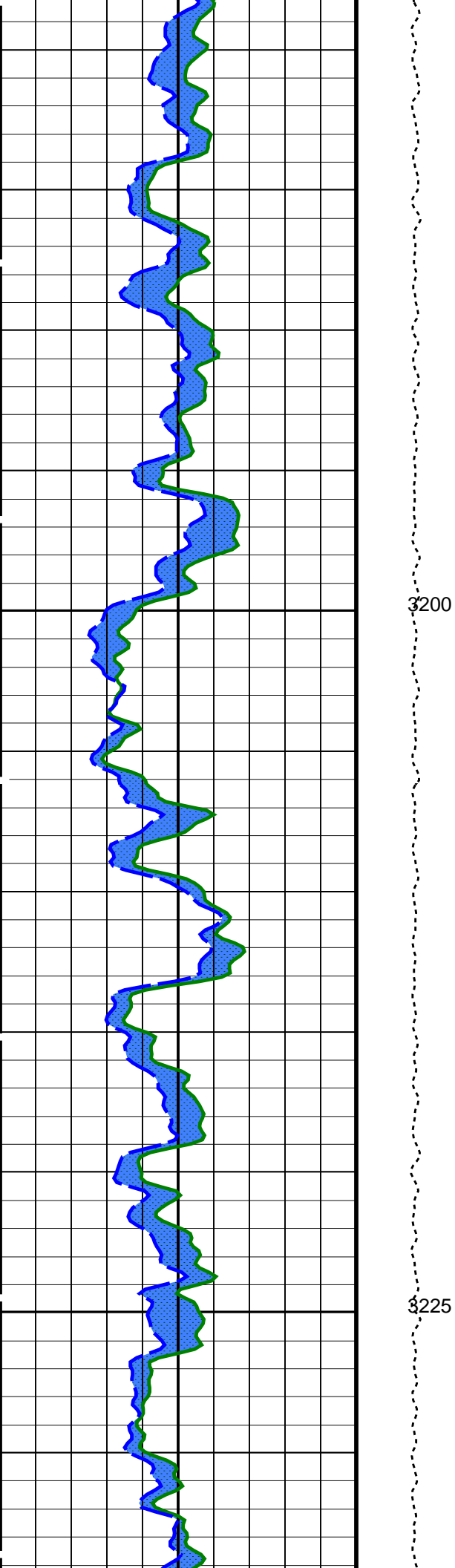
Time Mark Every 60 S

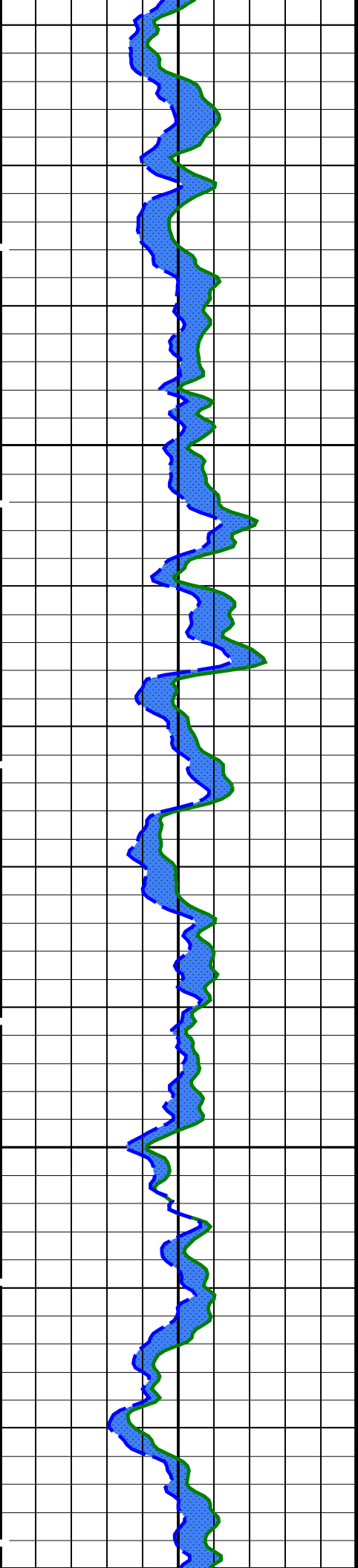






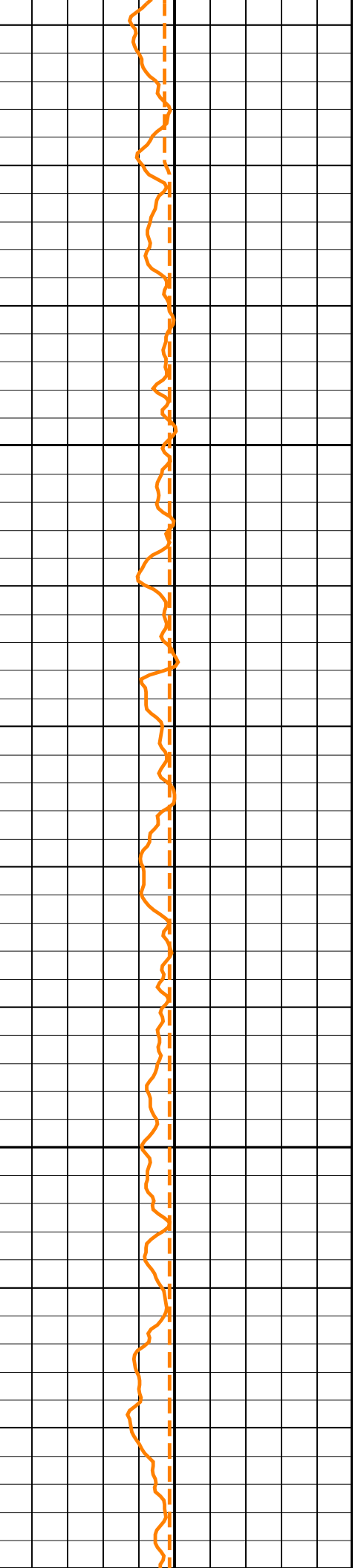
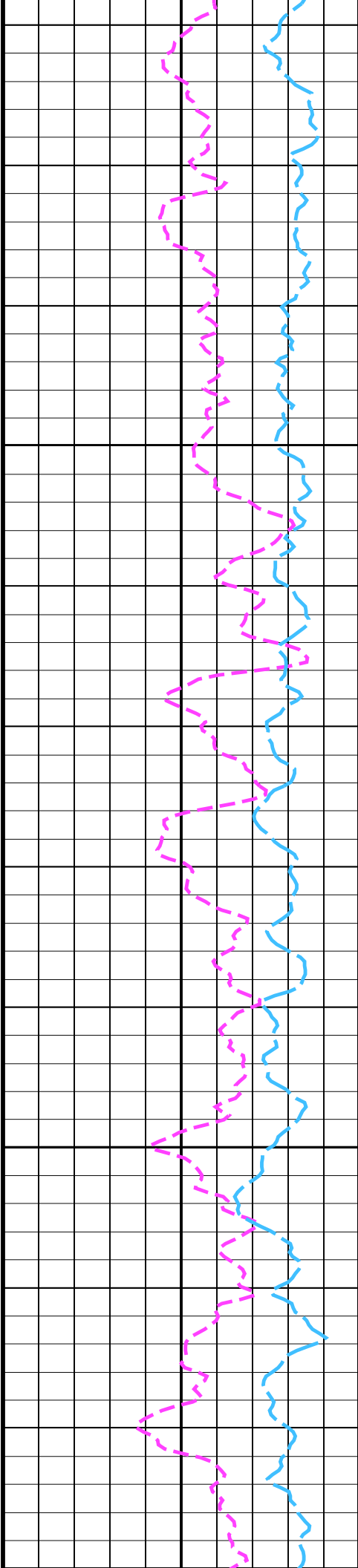


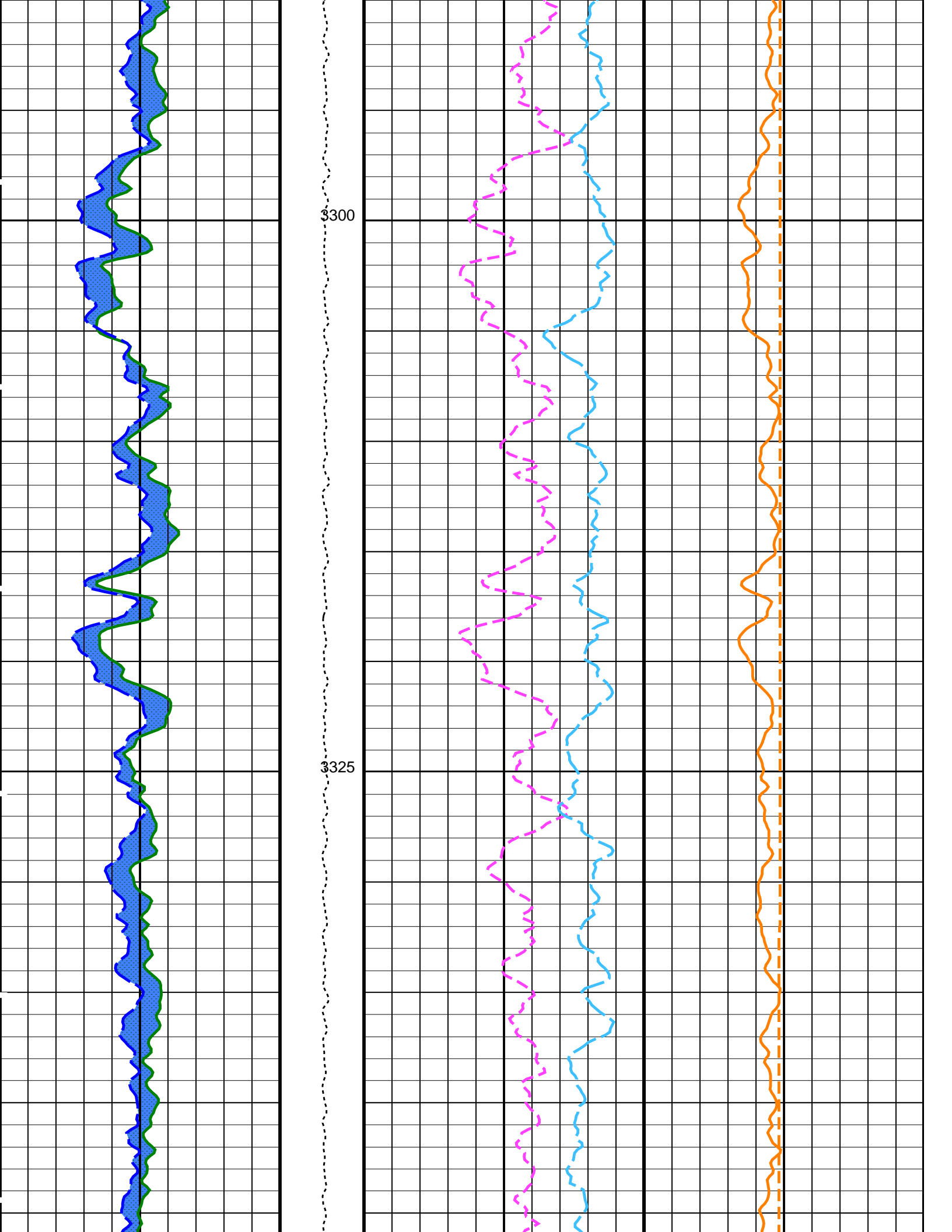


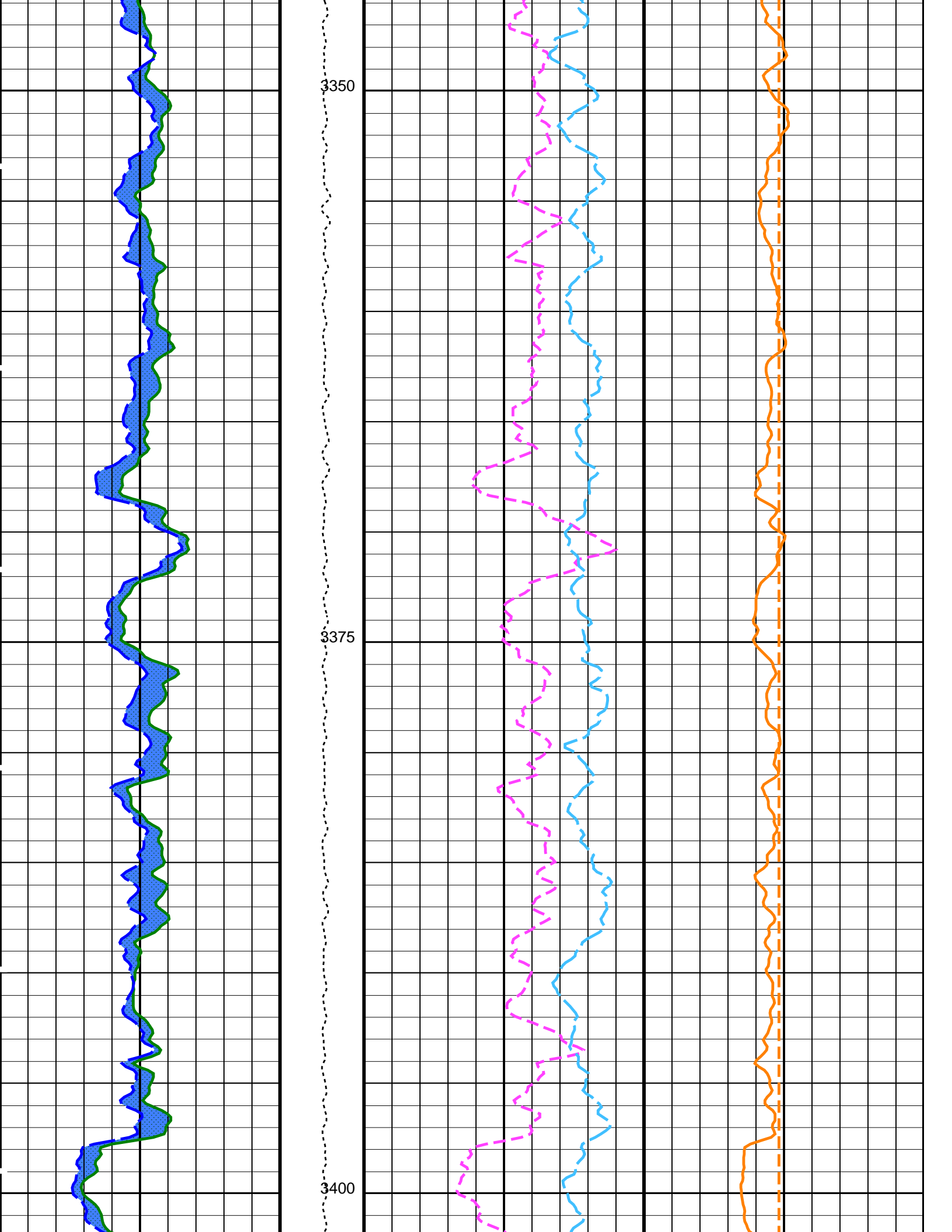


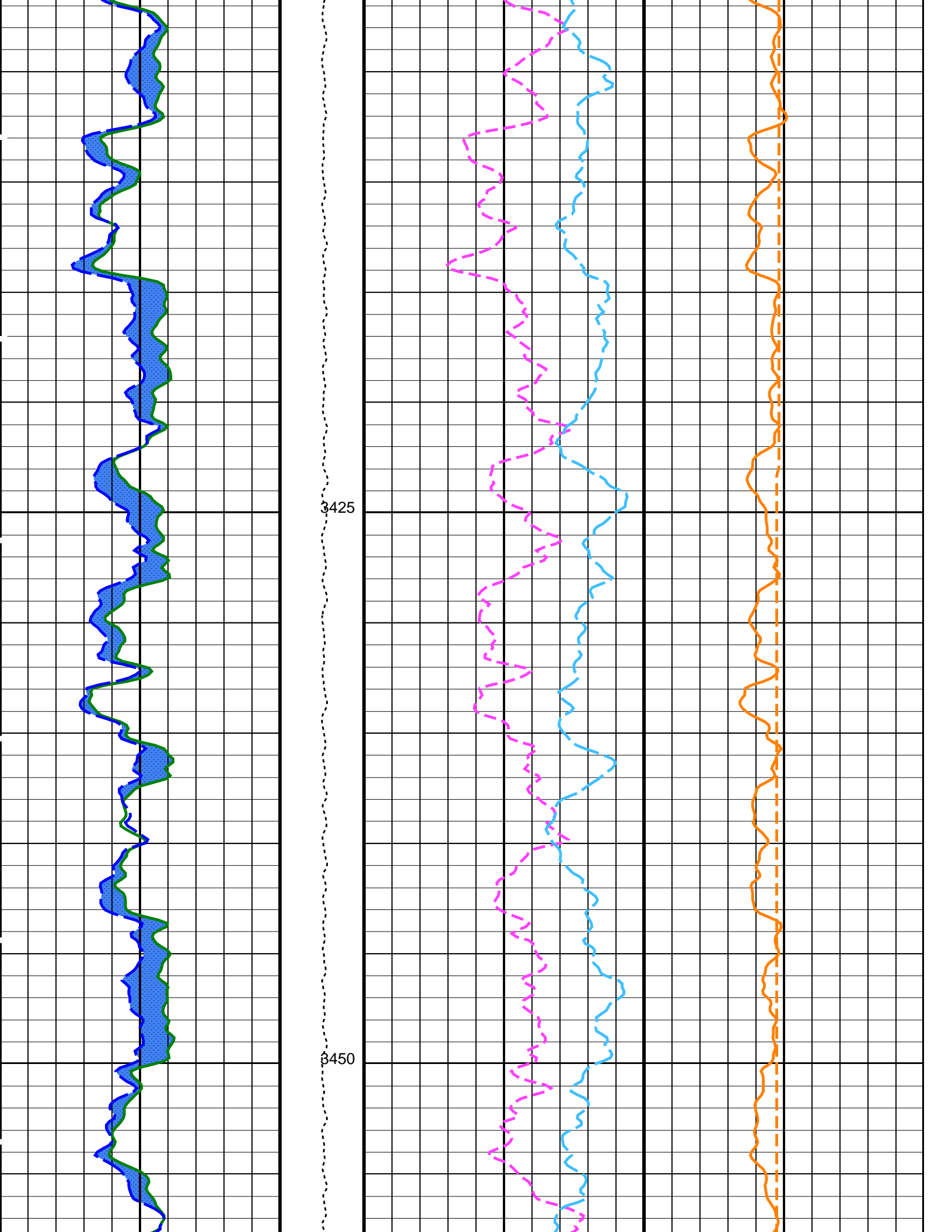
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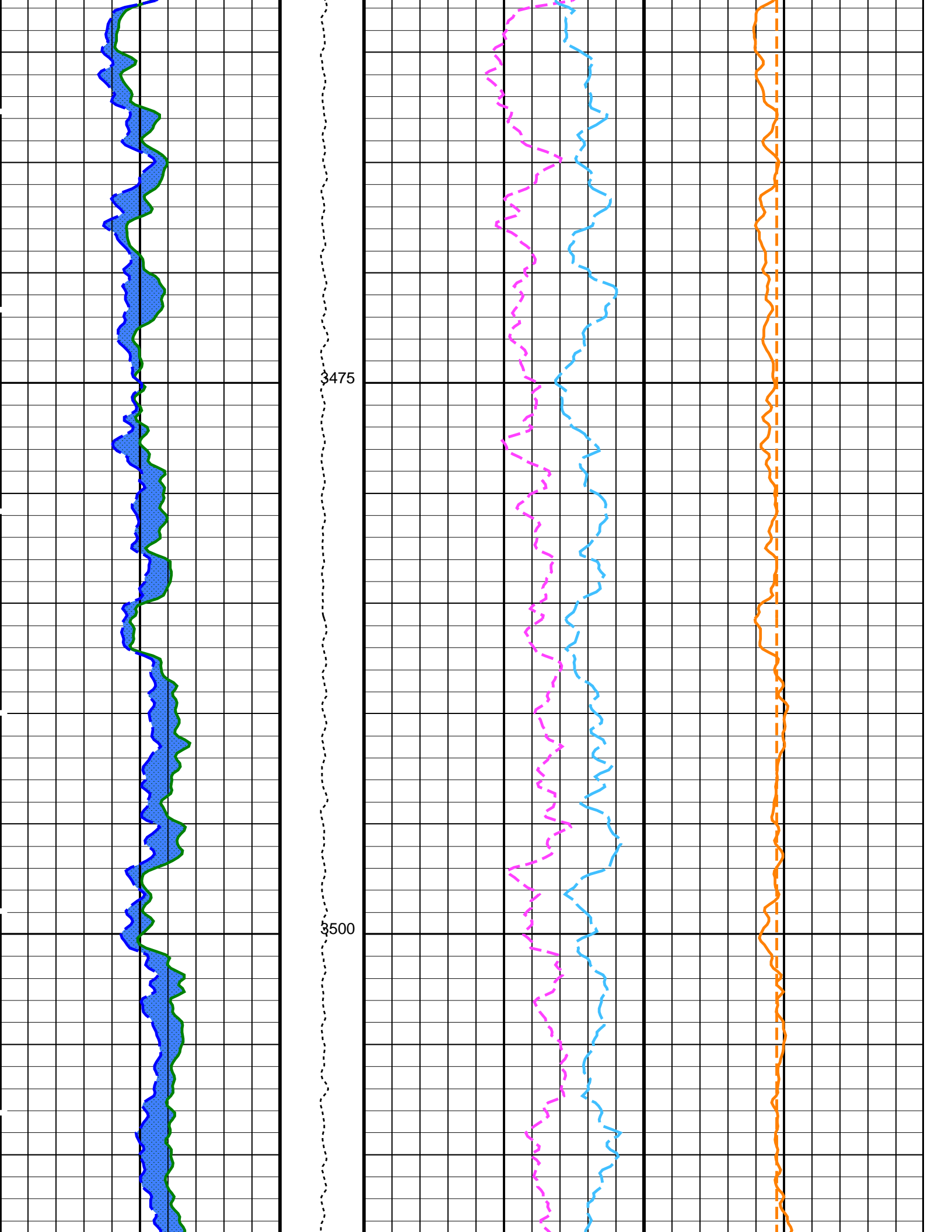
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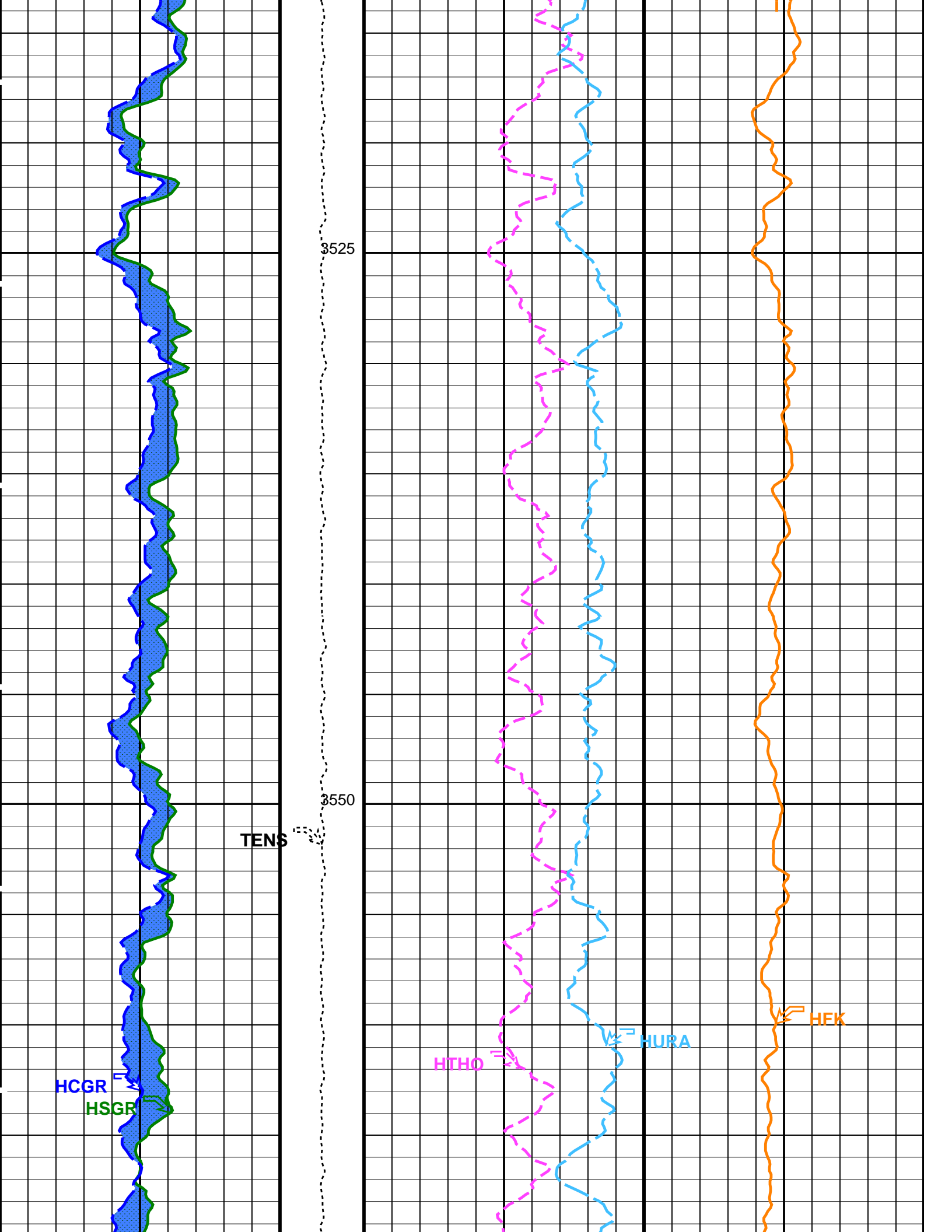












3525

3550

TENS

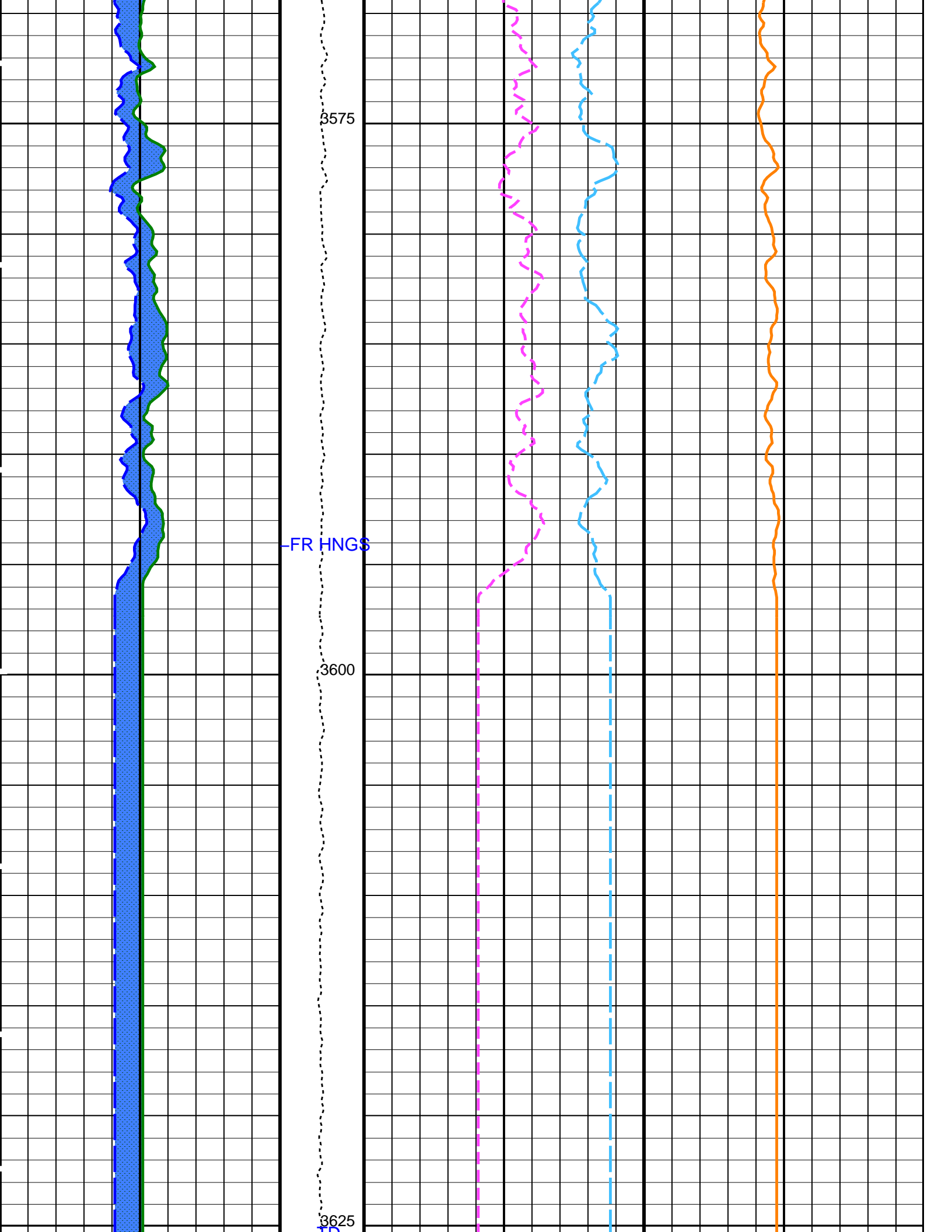
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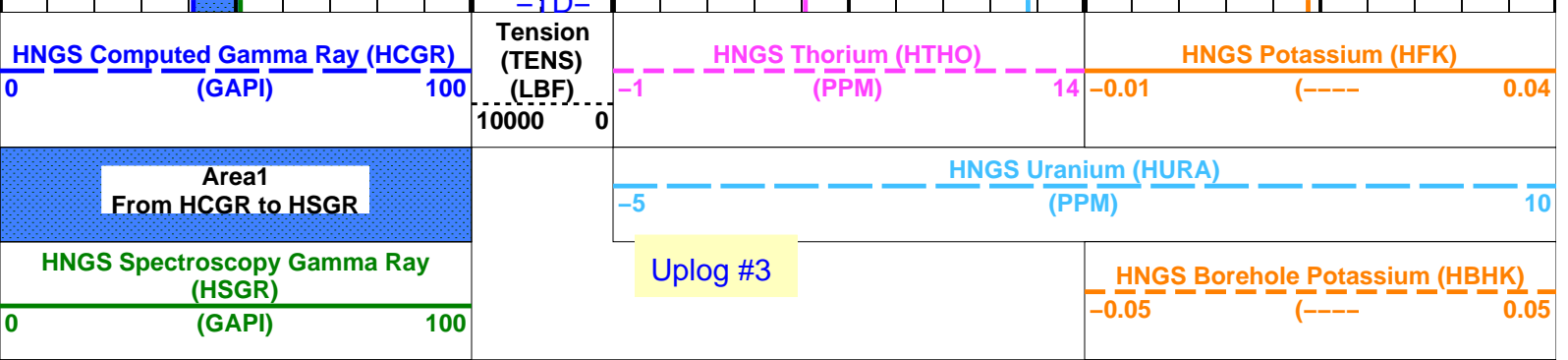
HSGR

HTHO

HURA

HEK





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B:	Dipole Shear Imager - B	
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
HNGS-BA:	Hostile Natural Gamma Ray Sonde	
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 IN
CSW1	Inner Casing Weight	0 LB/F
CSW2	Outer Casing Weight	0 LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE
GCSE	Generalized Caliper Selection	BS
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00199812
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	BARI
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.990409
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.98694
System and Miscellaneous		
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.22 G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 23-Feb-2010 15:44

OP System Version: 17C0-154

MEST-B	SRPC-3870_Q3_2009_OP17_V3_b	DTA-A	17C0-154
DSST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	17C0-154	DTC-H	17C0-154

Output DLIS Files

DEFAULT	FMS_DSI_NGS_019LUP	FN:30	PRODUCER	23-Feb-2010 15:43
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Output DLIS Files

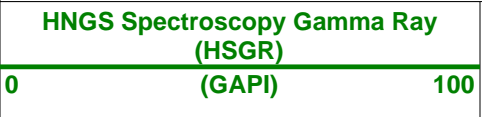
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BACKUP	FMS_DSI_NGS_017LUP	FN:27	PRODUCER	23-Feb-2010 16:02	3625.6 M	3125.7 M

OP System Version: 17C0-154

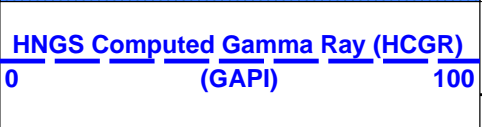
MEST-B	SRPC-3870_Q3_2009_OP17_V3_b	DTA-A	17C0-154
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PIP SUMMARY

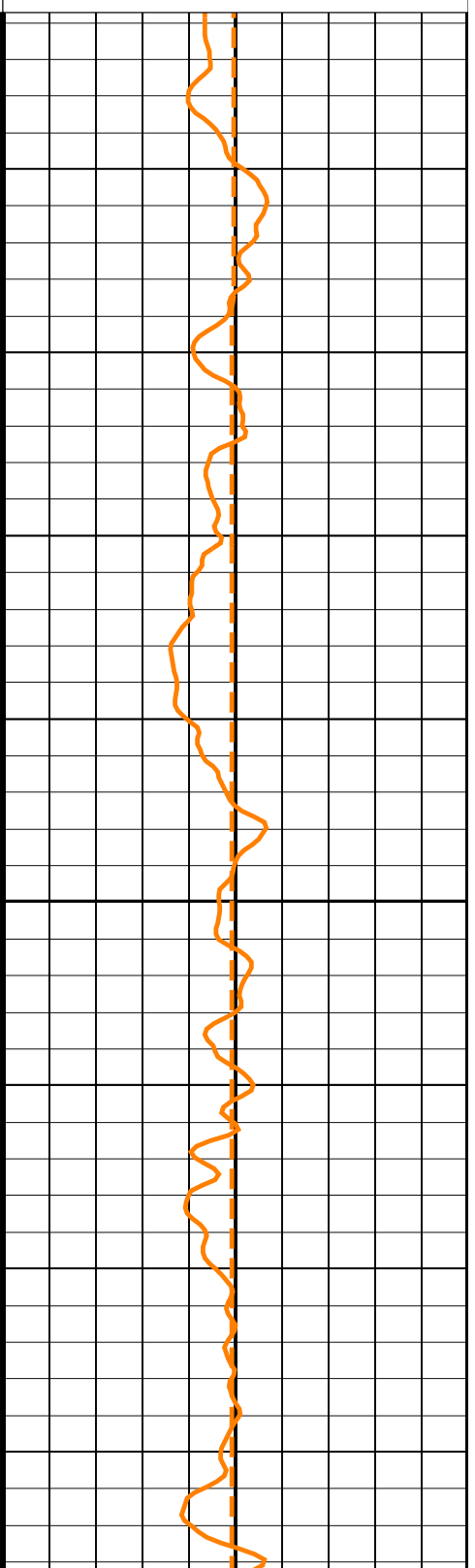
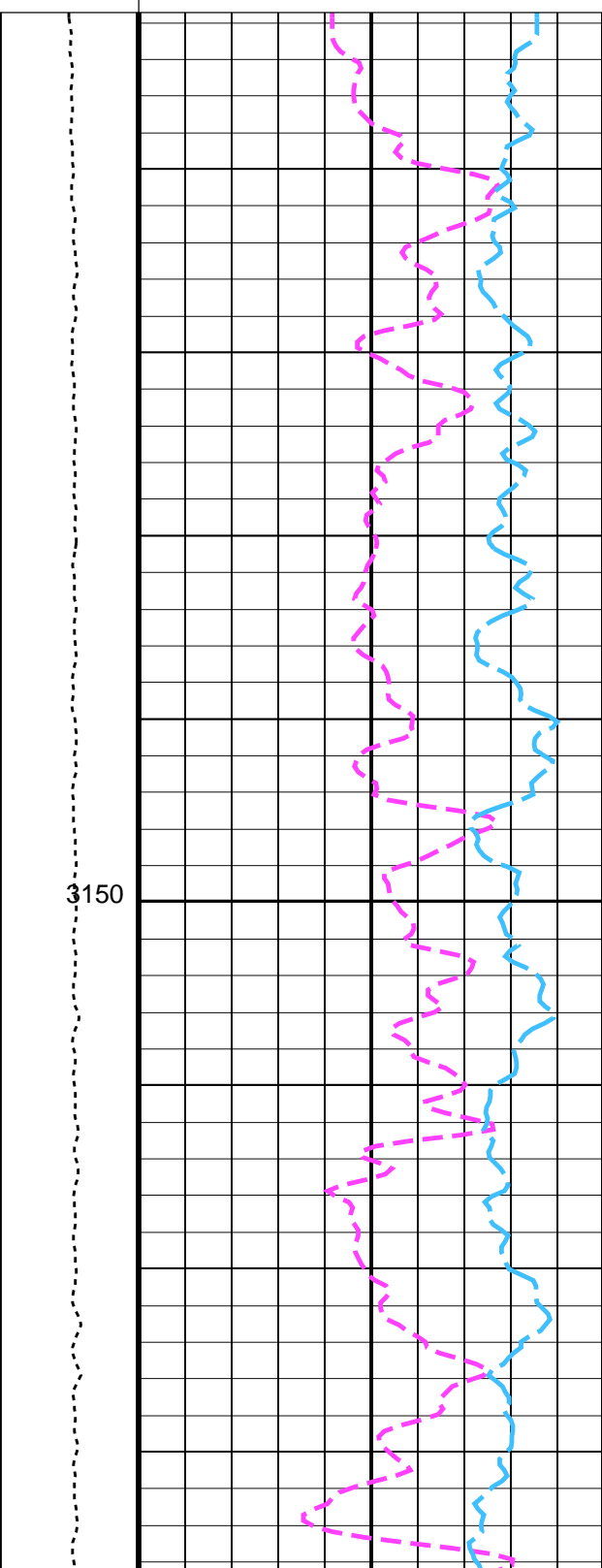
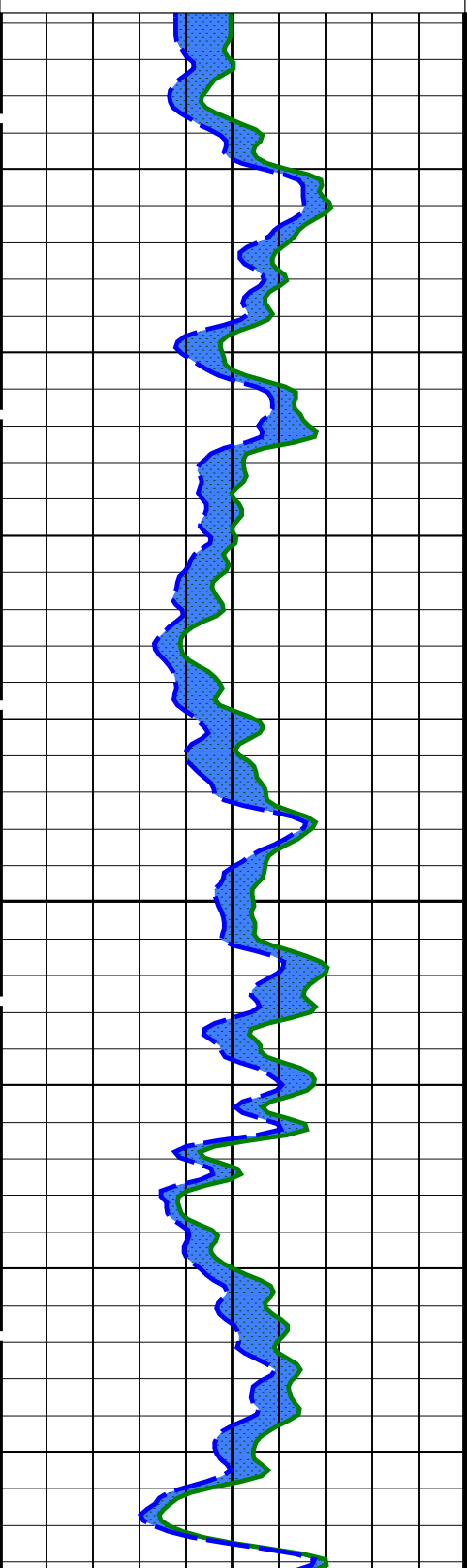
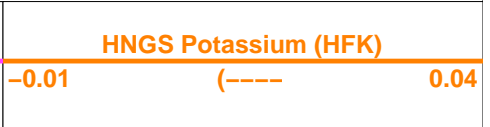
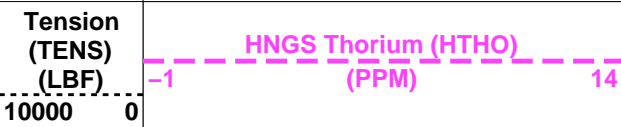
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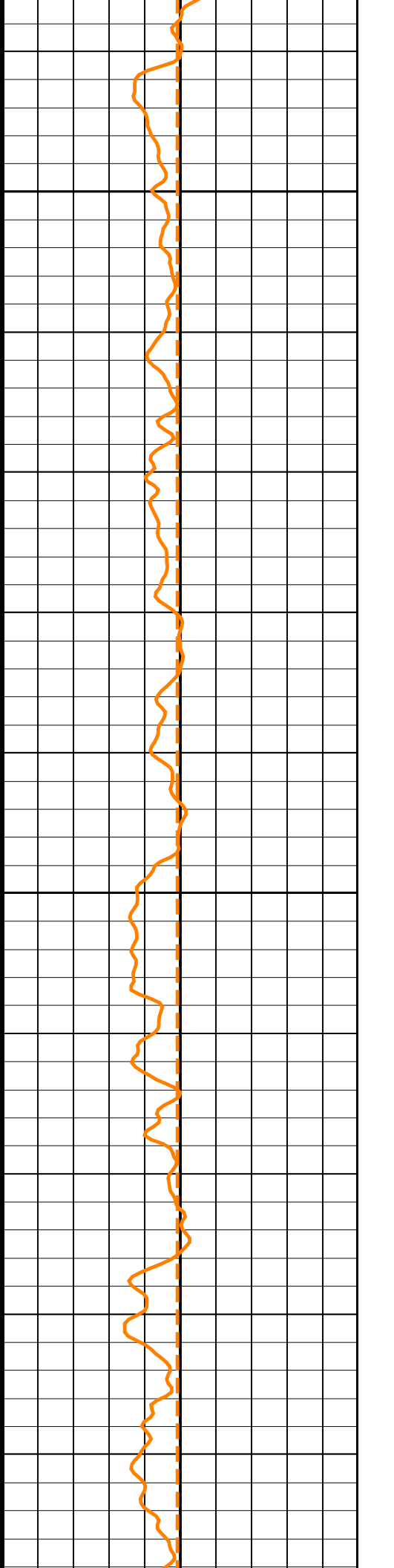
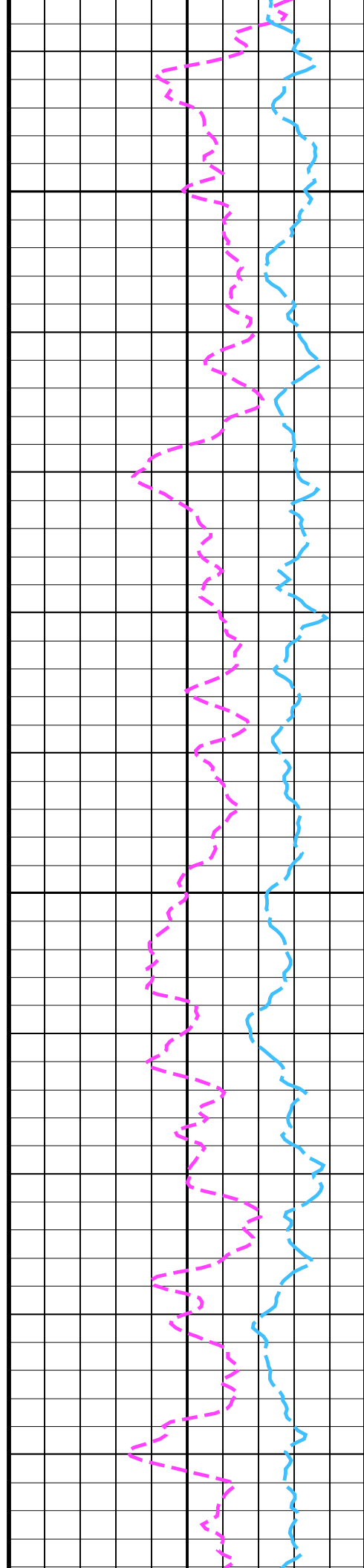
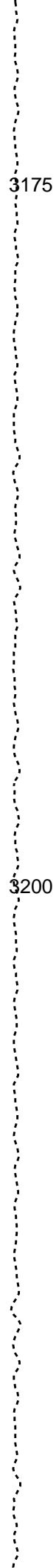
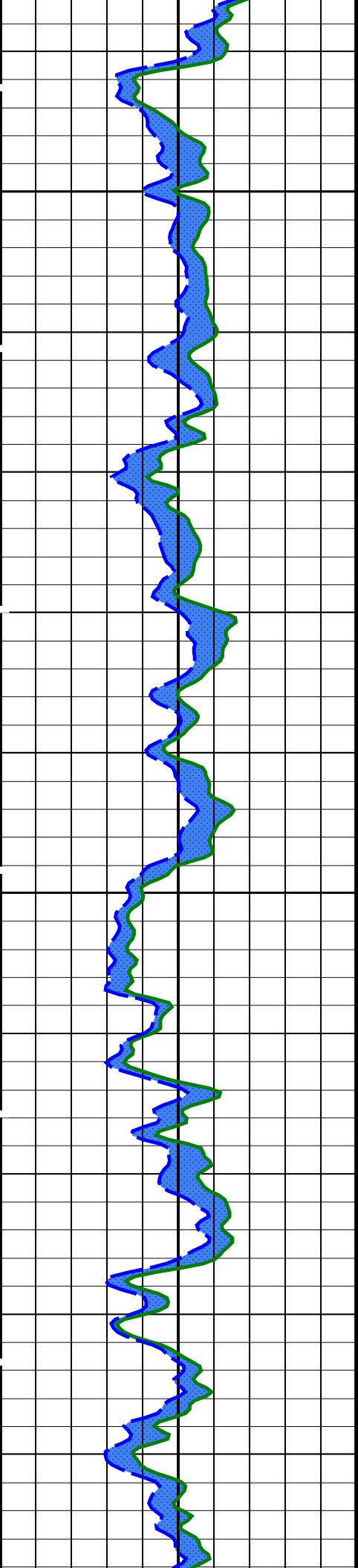


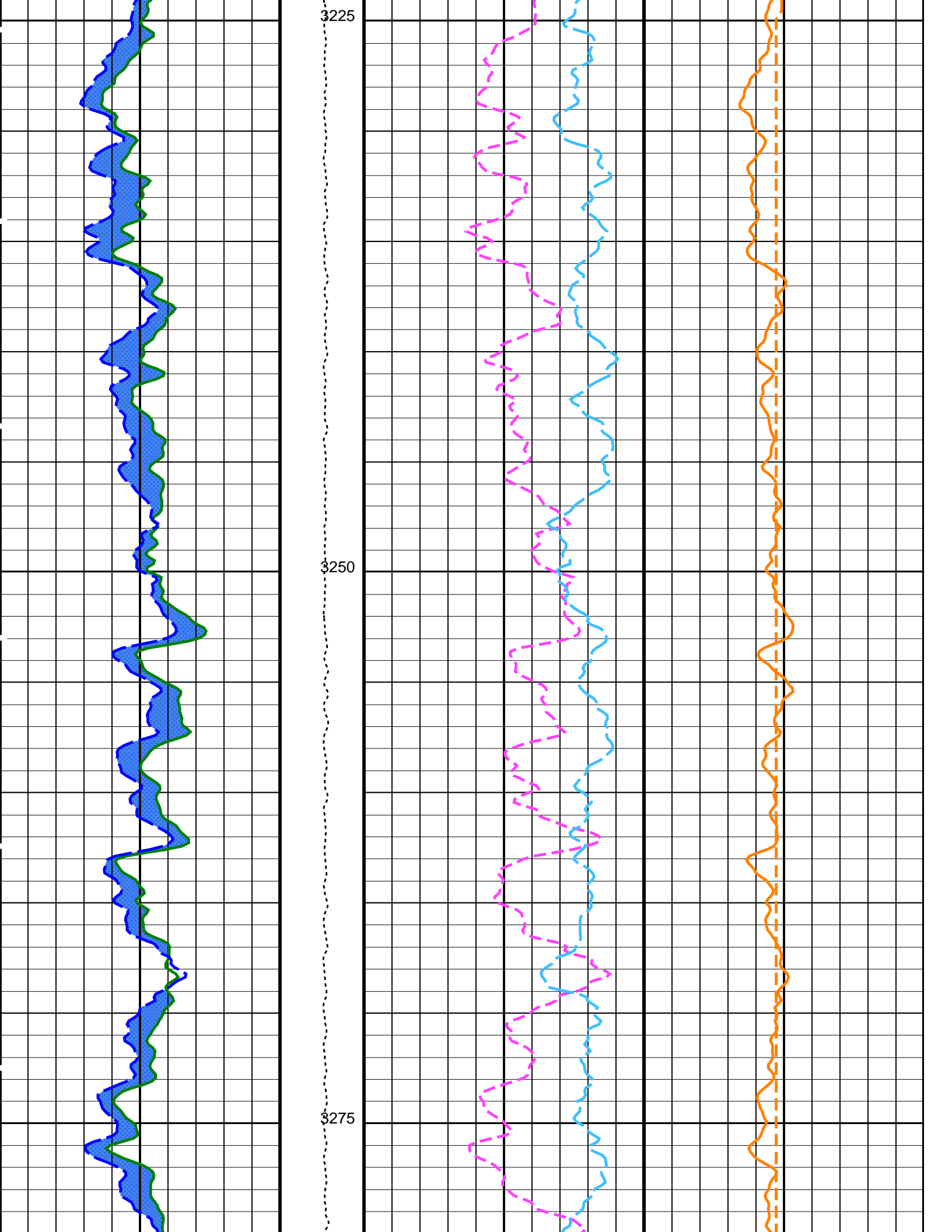
Area1
From HCGR to HSGR

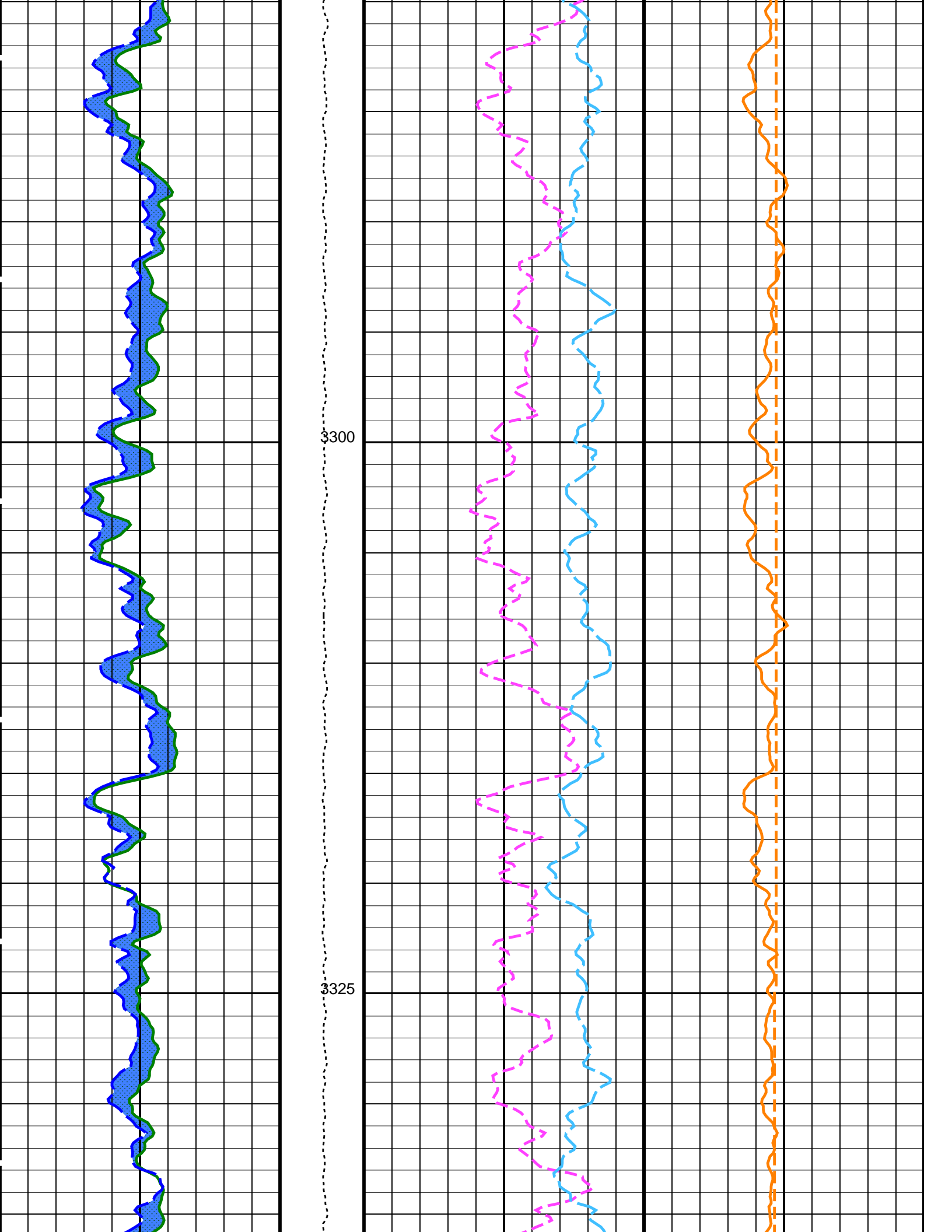


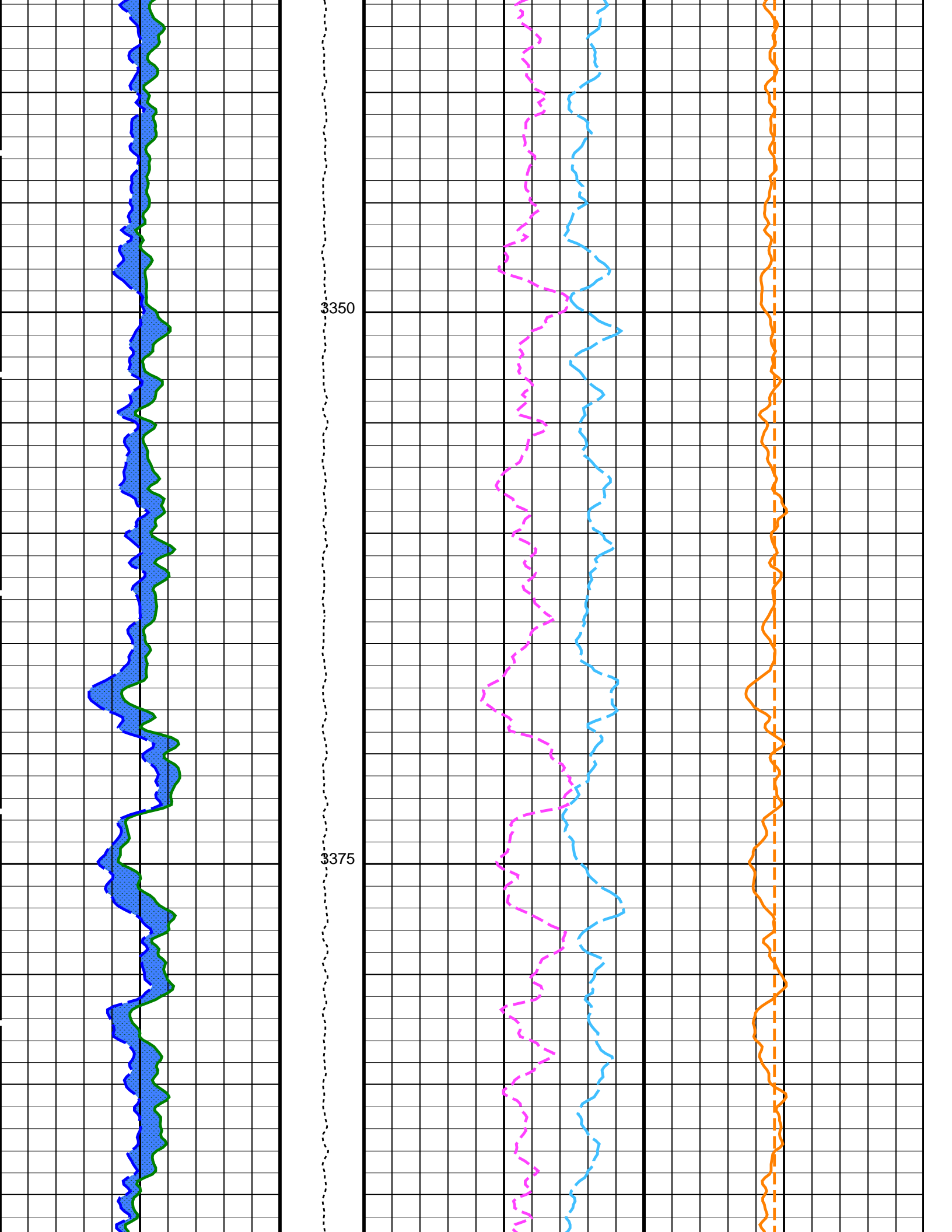
Uplog #2

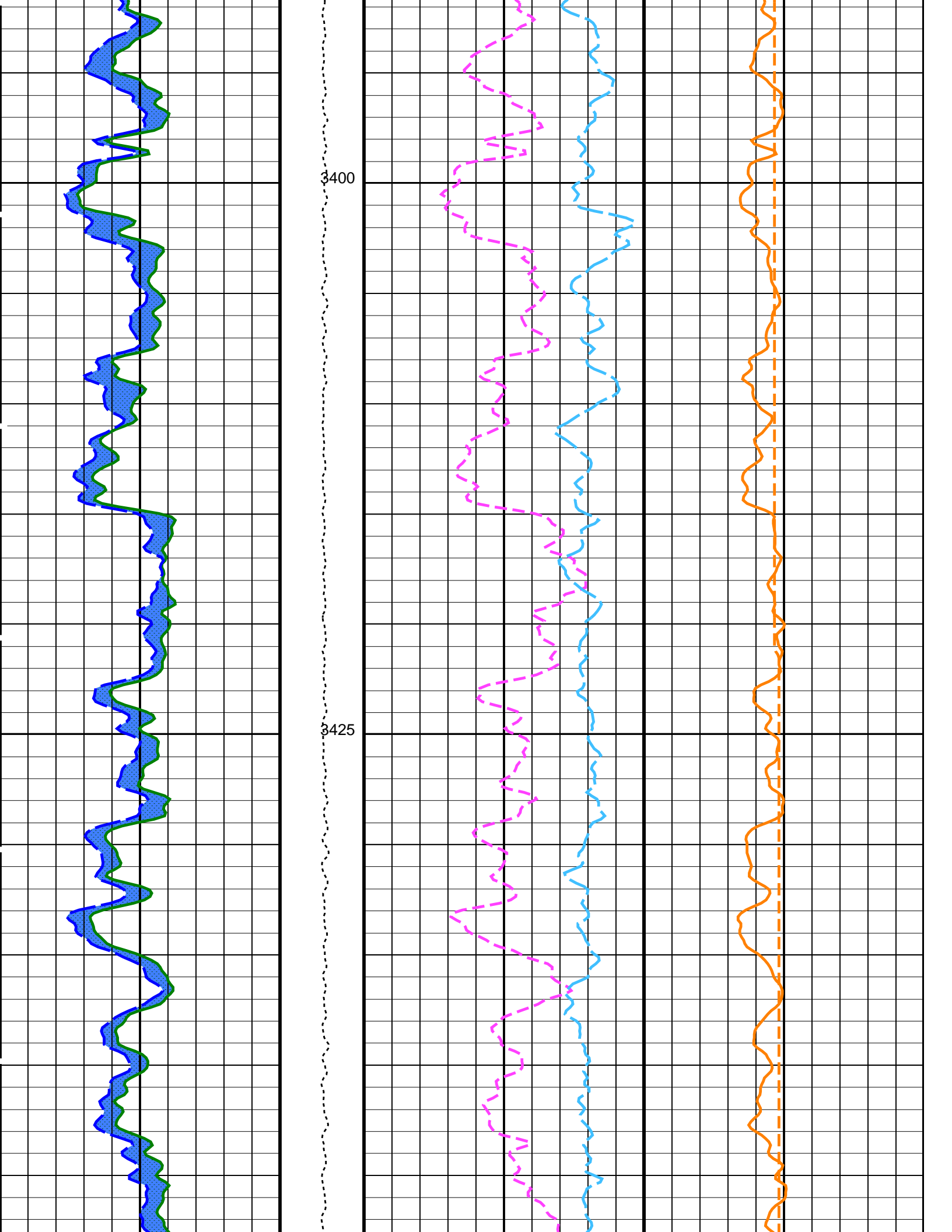


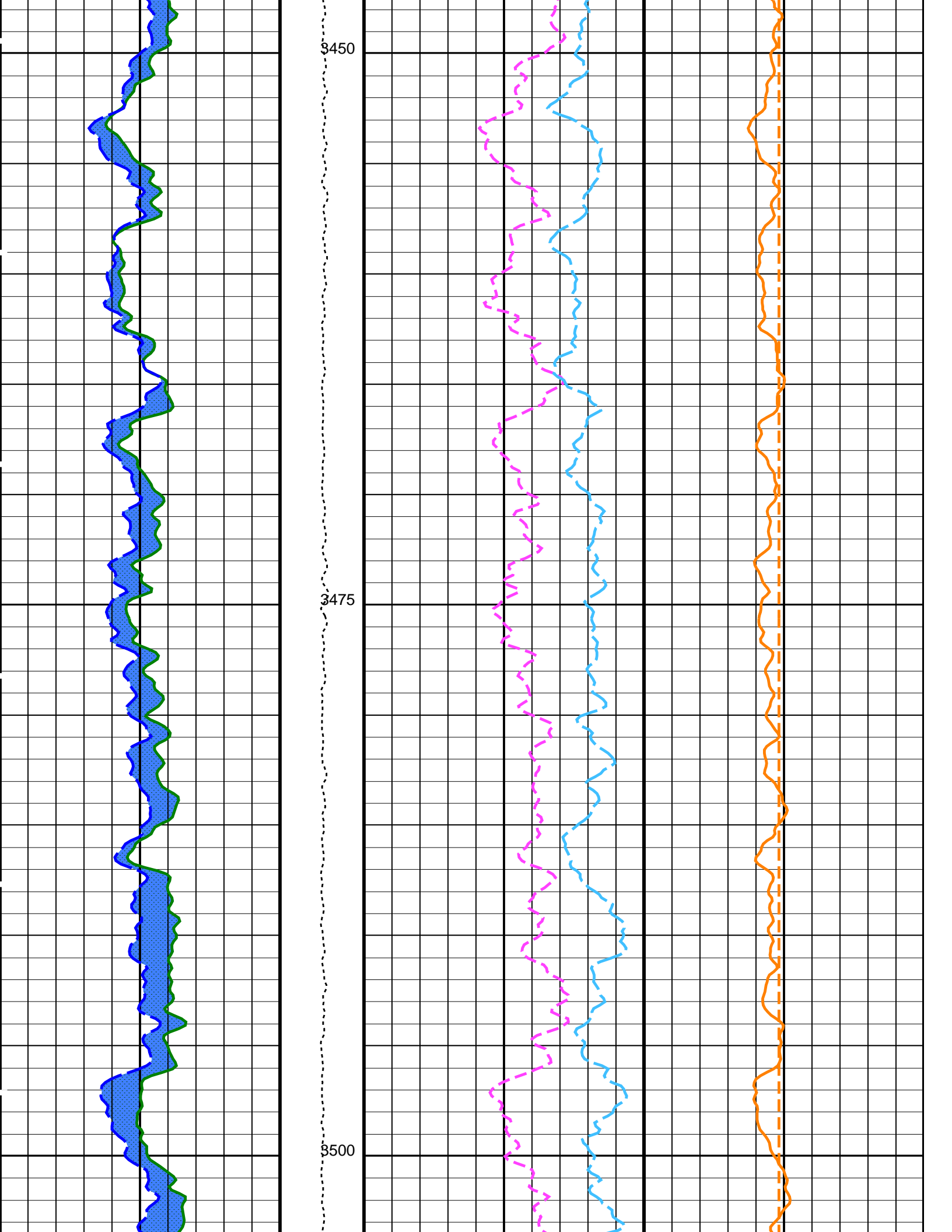


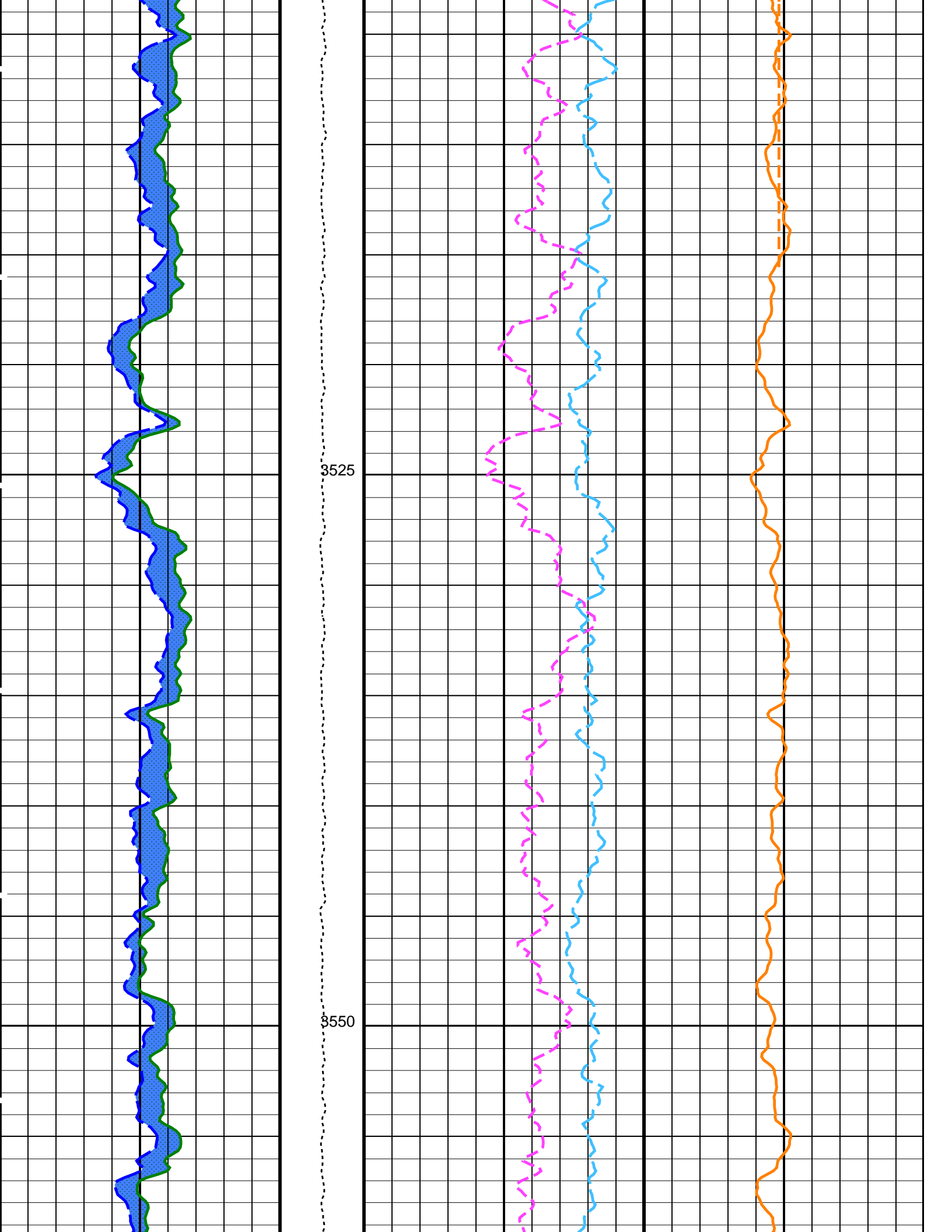


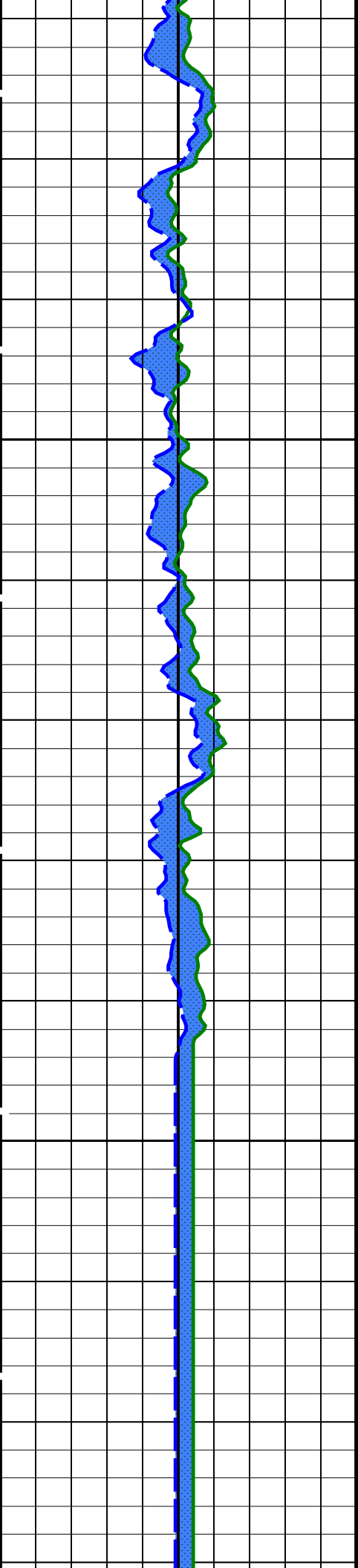




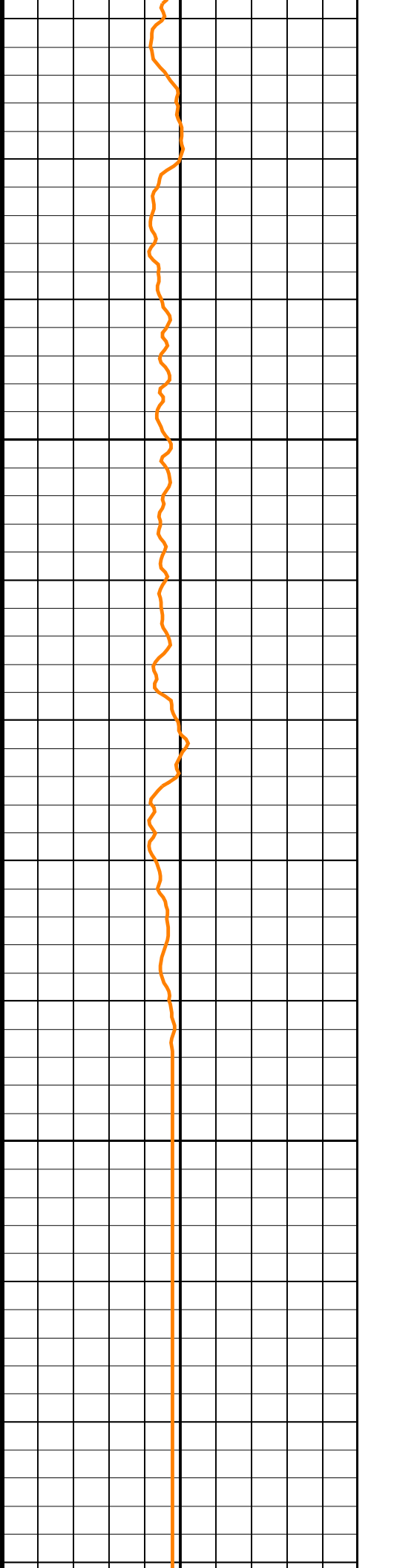
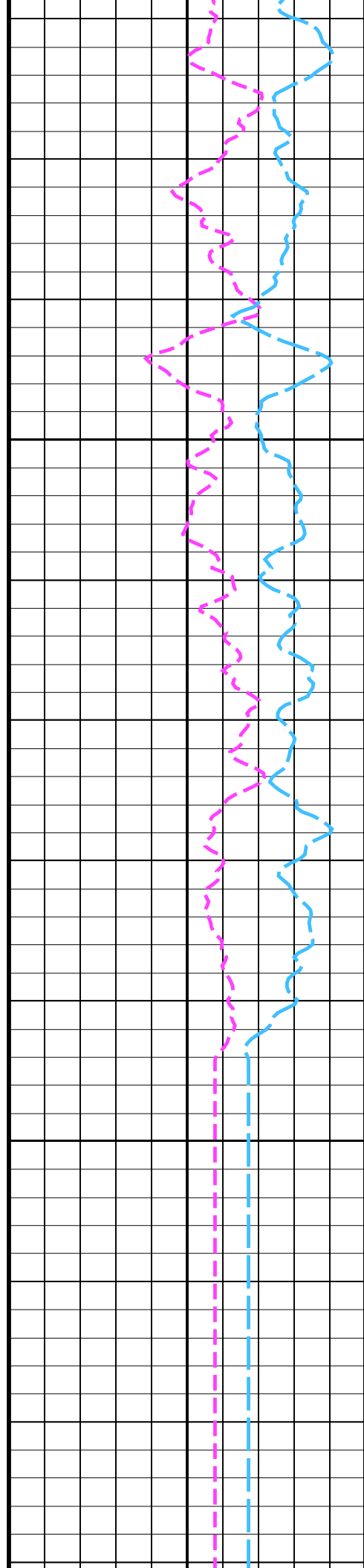


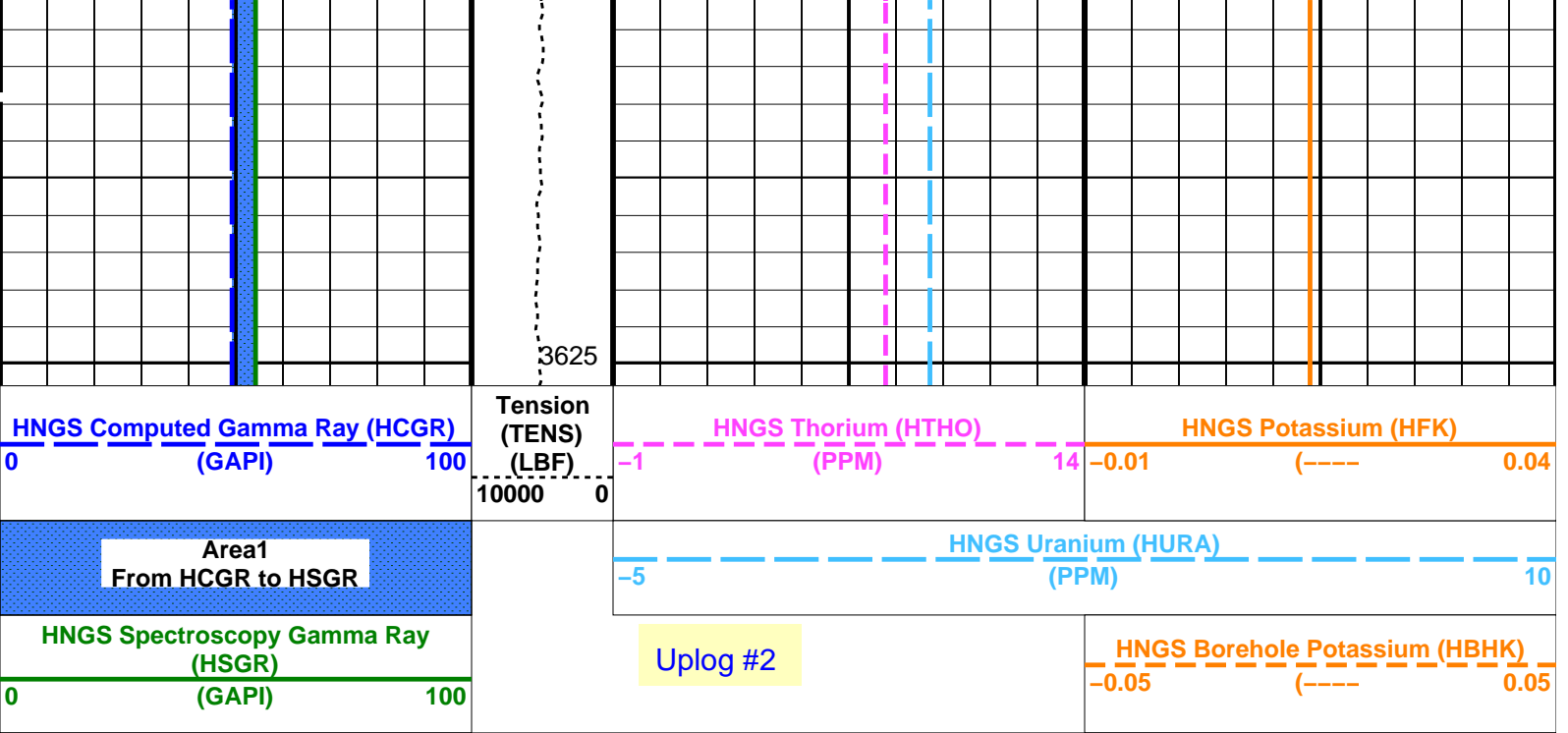






3575
3600





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B:	Dipole Shear Imager - B	
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
HNGS-BA:	Hostile Natural Gamma Ray Sonde	
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 IN
CSW1	Inner Casing Weight	0 LB/F
CSW2	Outer Casing Weight	0 LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE
GCSE	Generalized Caliper Selection	BS
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00199812
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	BARI
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.990409
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.98694
System and Miscellaneous		
BS	Bit Size	9.875 IN
DFD	Drilling Fluid Density	1.22 G/C3

Format: HNGSYields

Vertical Scale: 1:200

Graphics File Created: 23-Feb-2010 14:02

OP System Version: 17C0-154

MEST-B	SRPC-3870_Q3_2009_OP17_V3_b	DTA-A	17C0-154
DSST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	17C0-154	DTC-H	17C0-154

Output DLIS Files

DEFAULT	FMS_DSI_NGS_017LUP	FN:26	PRODUCER	23-Feb-2010 14:02
BACKUP	FMS_DSI_NGS_017LUP	FN:27	PRODUCER	23-Feb-2010 16:02

Output DLIS Files

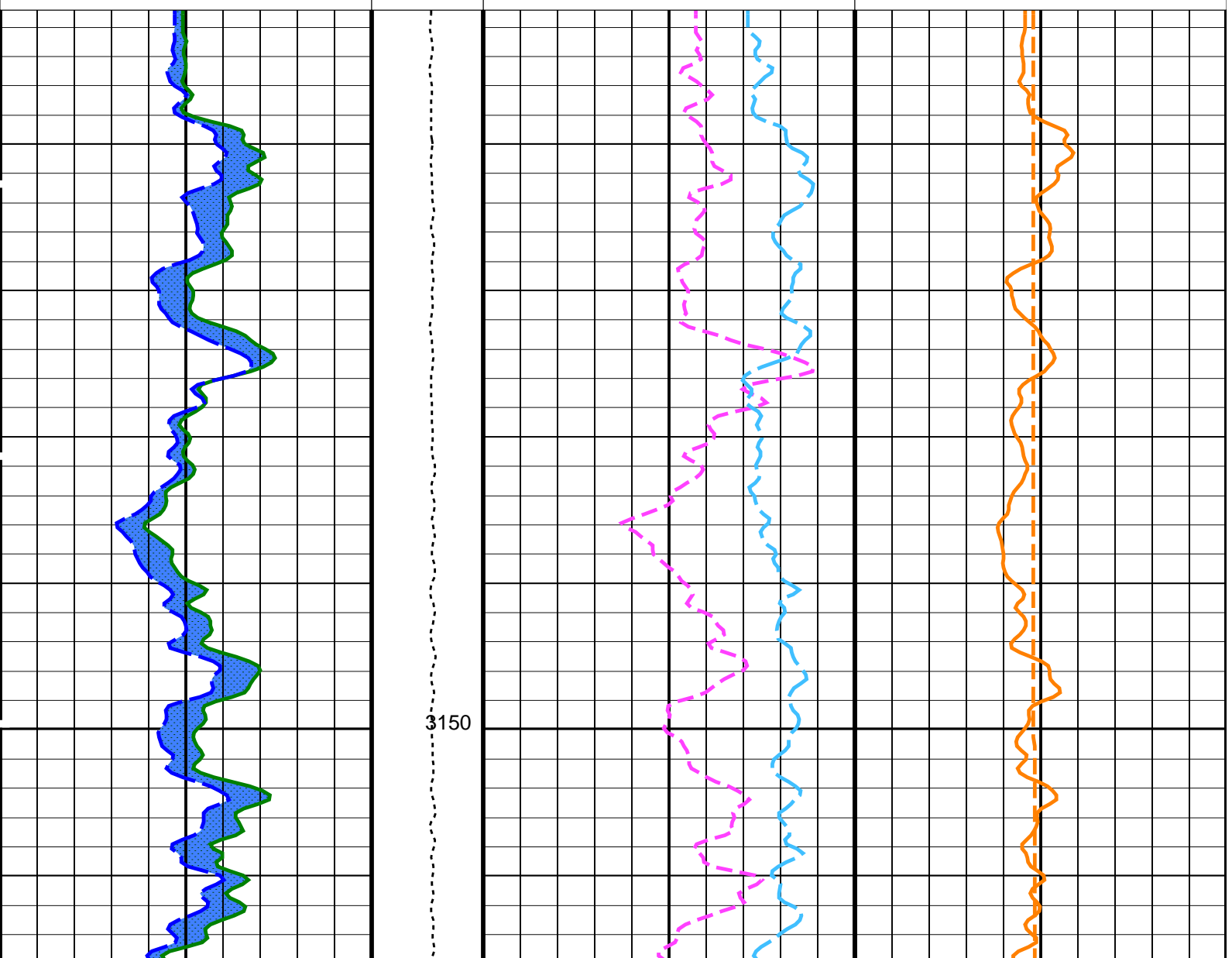
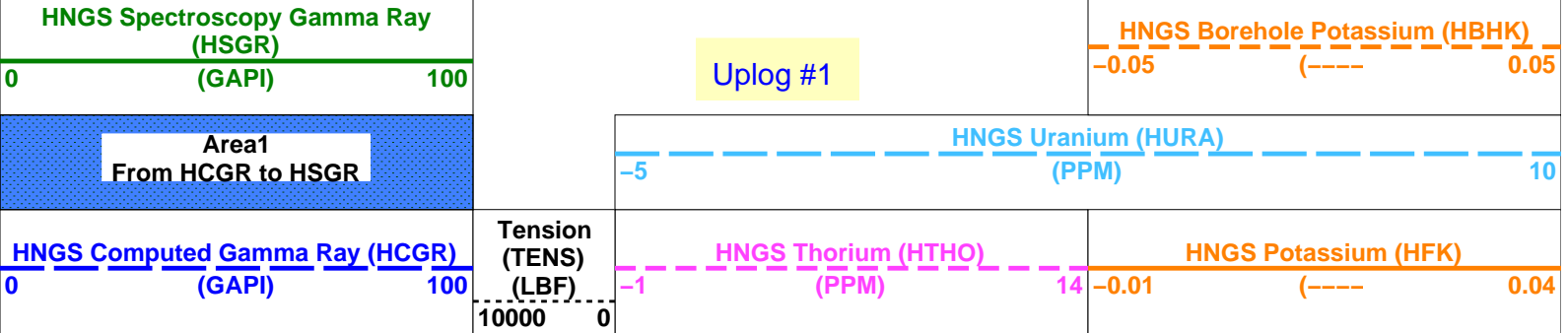
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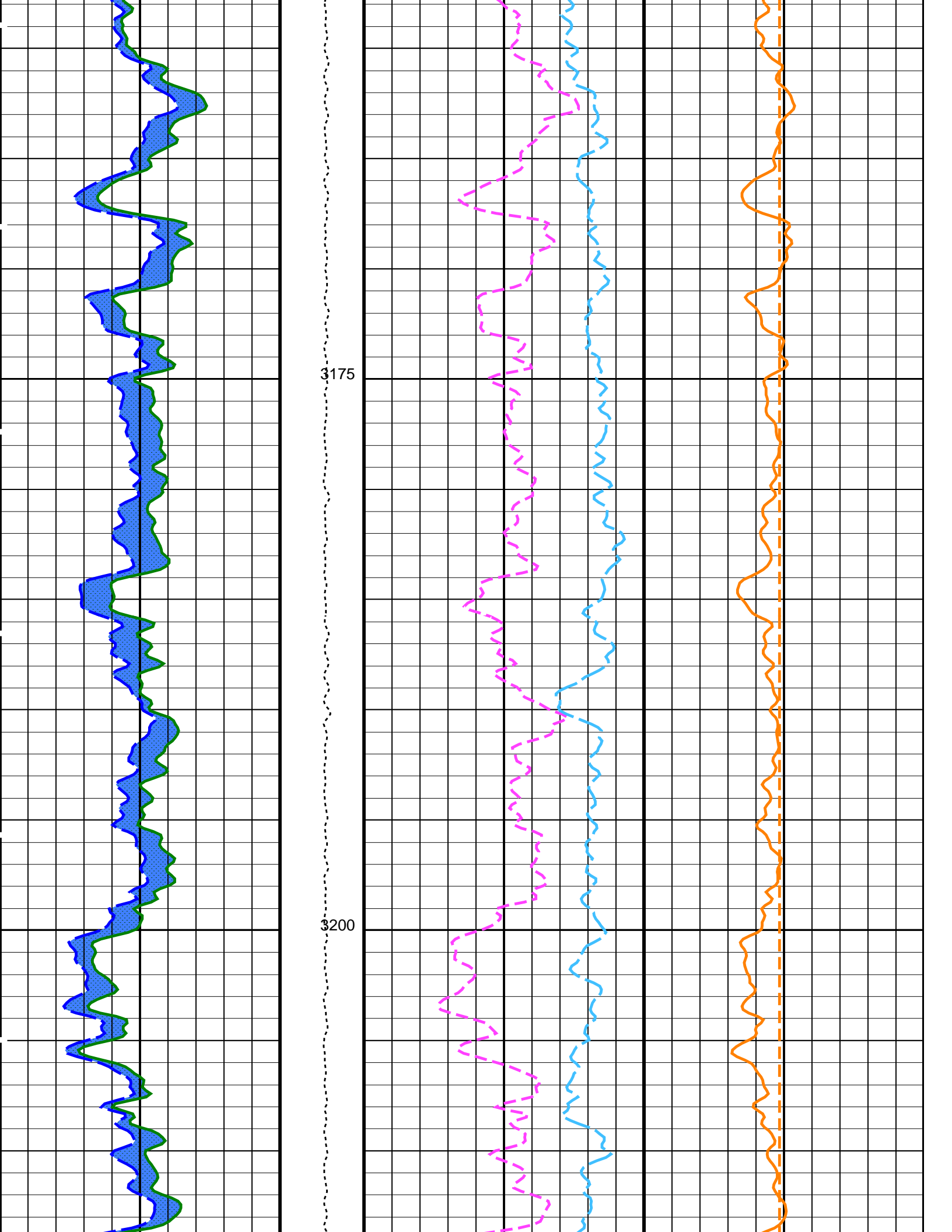
OP System Version: 17C0-154

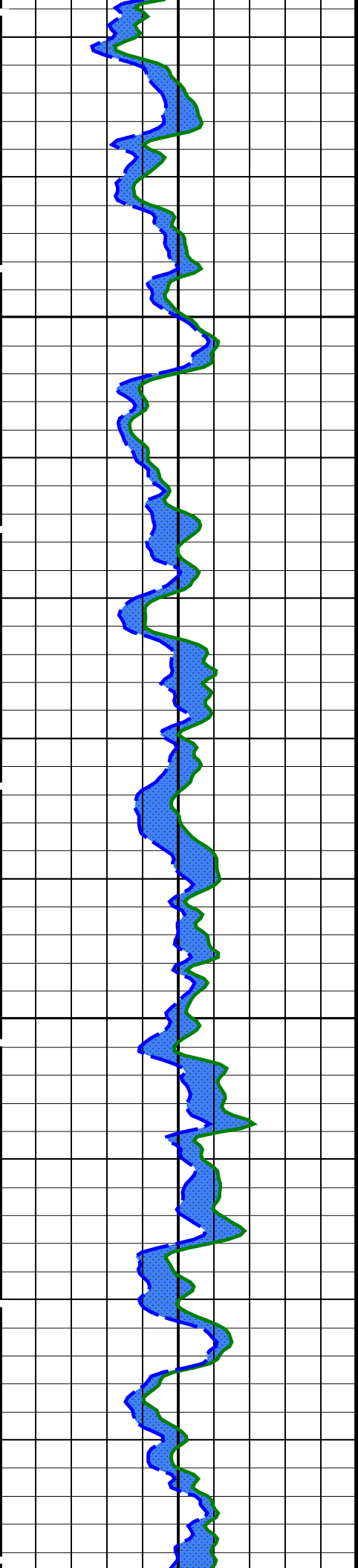
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HNGS-BA	17C0-154	DTC-H	17C0-154

PIP SUMMARY

Time Mark Every 60 S

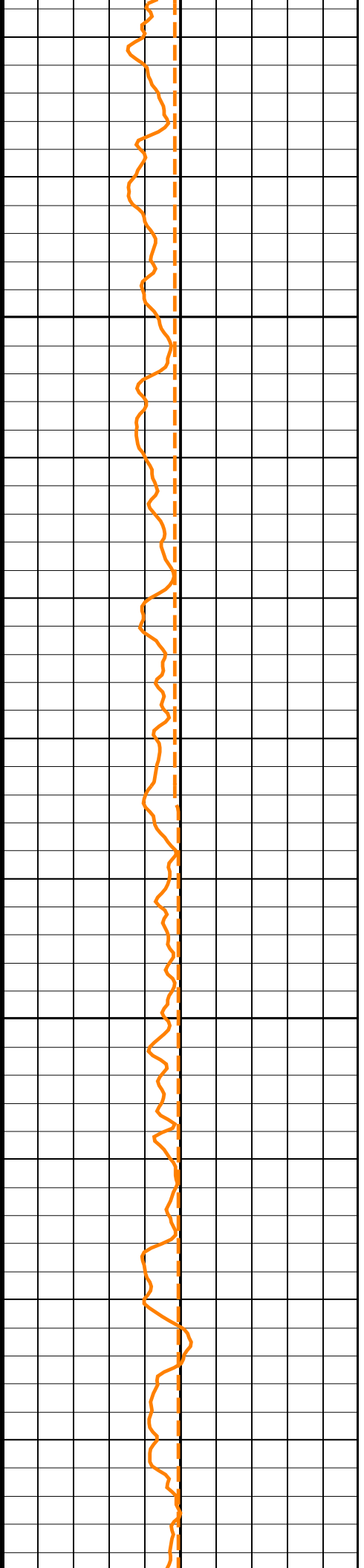
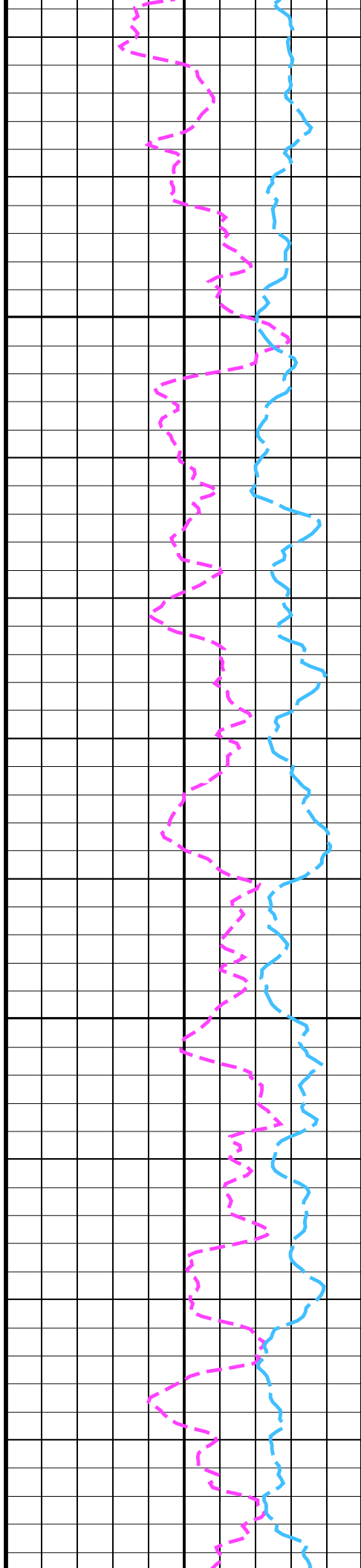
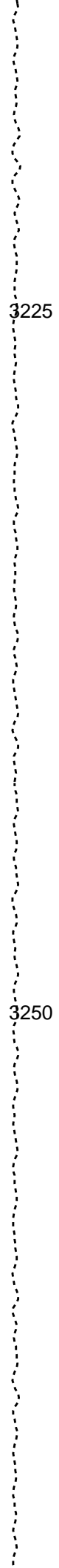


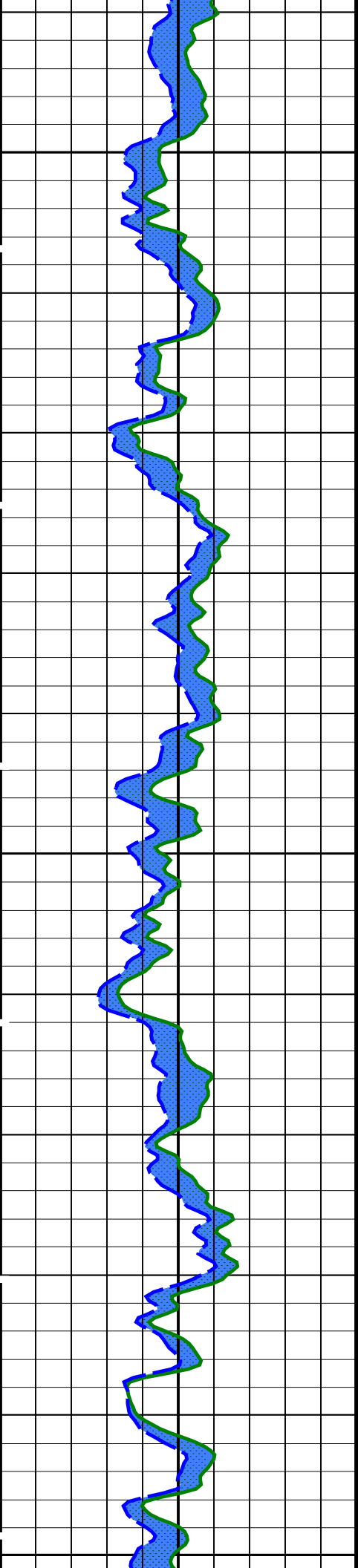




3225

3250

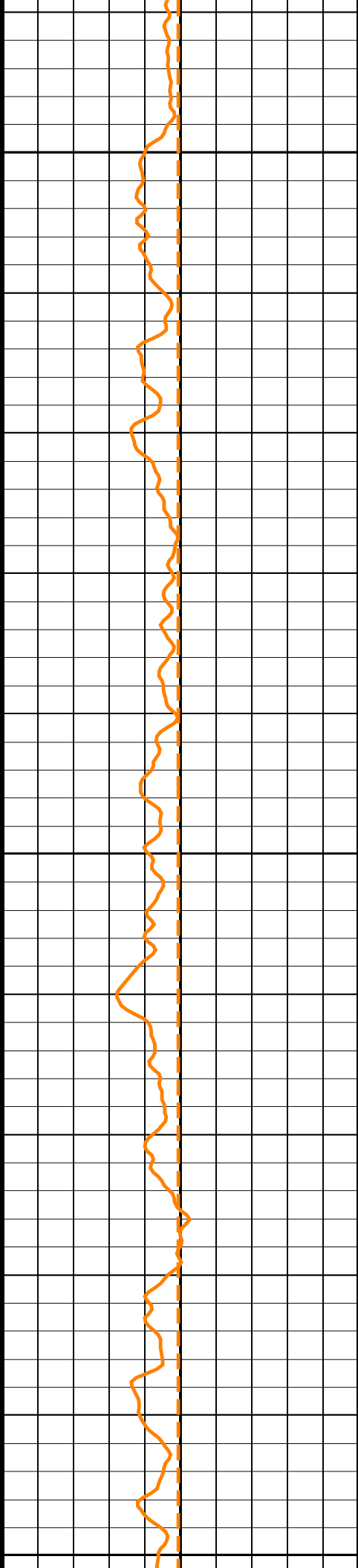
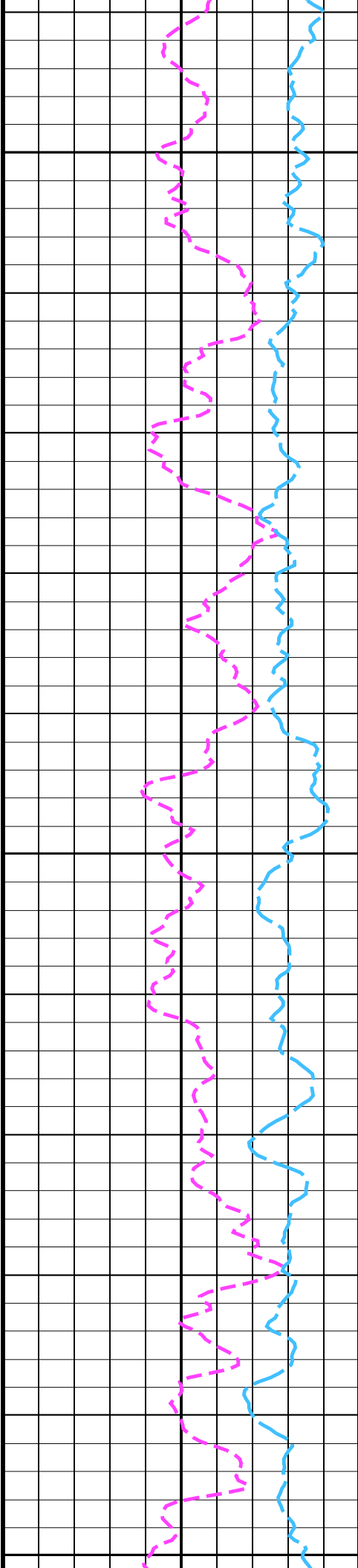


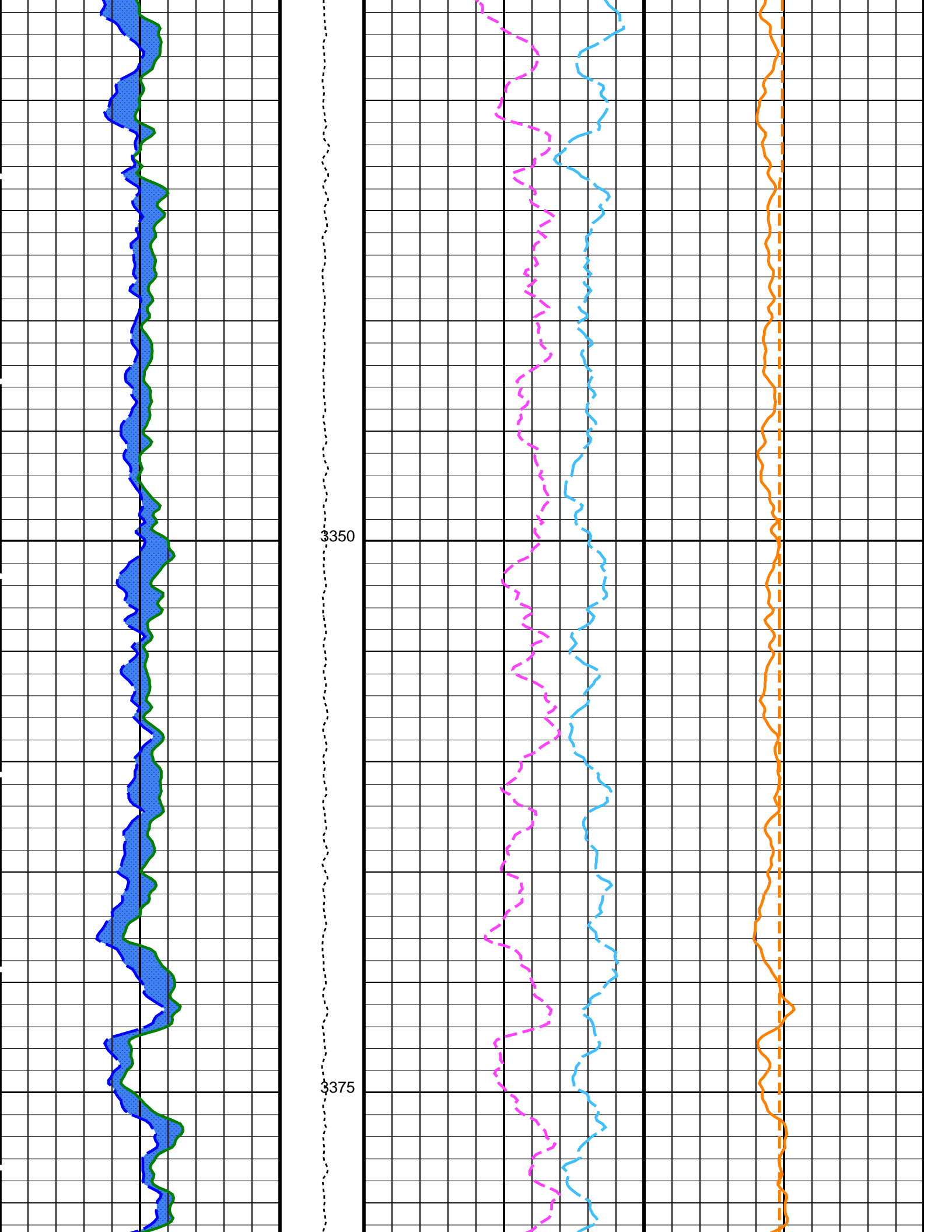


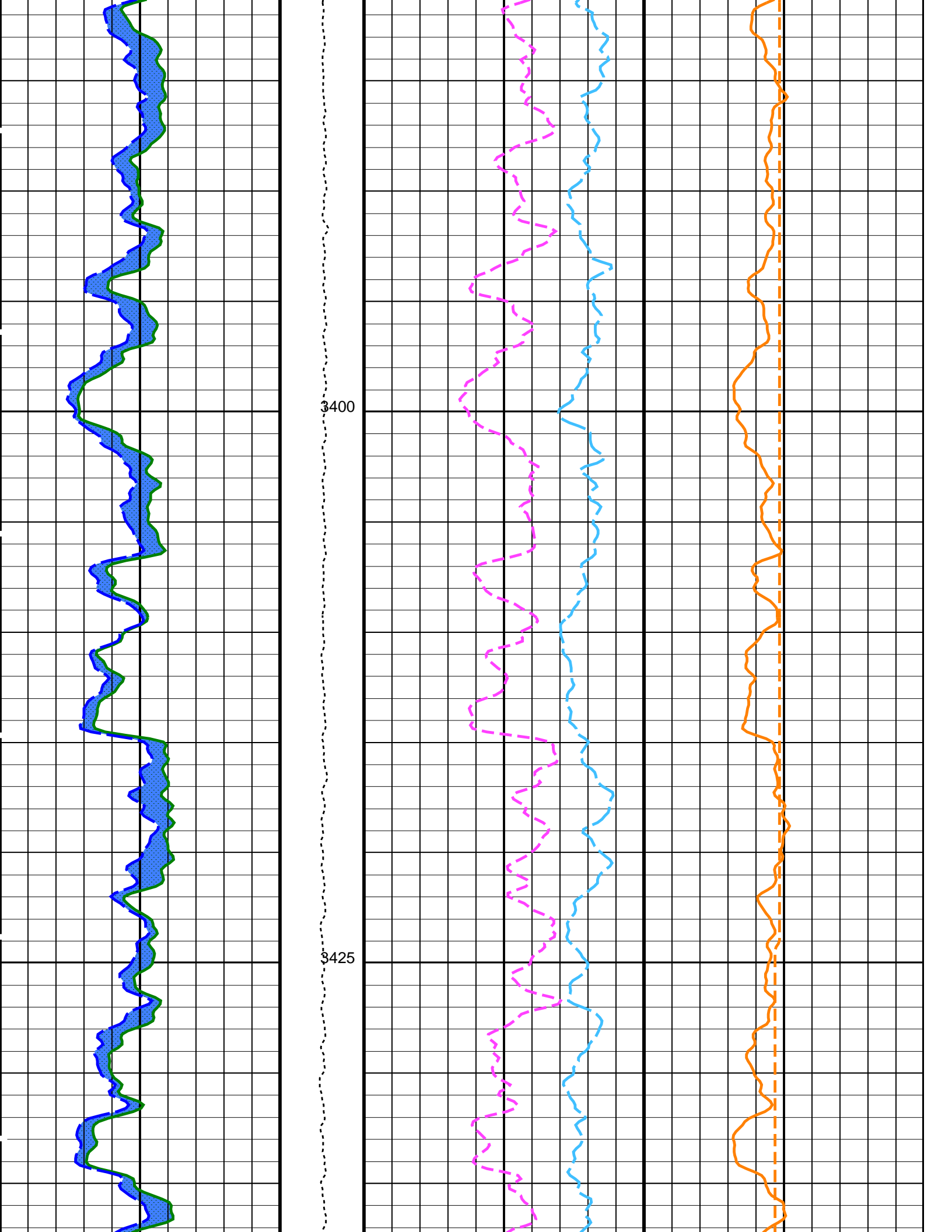
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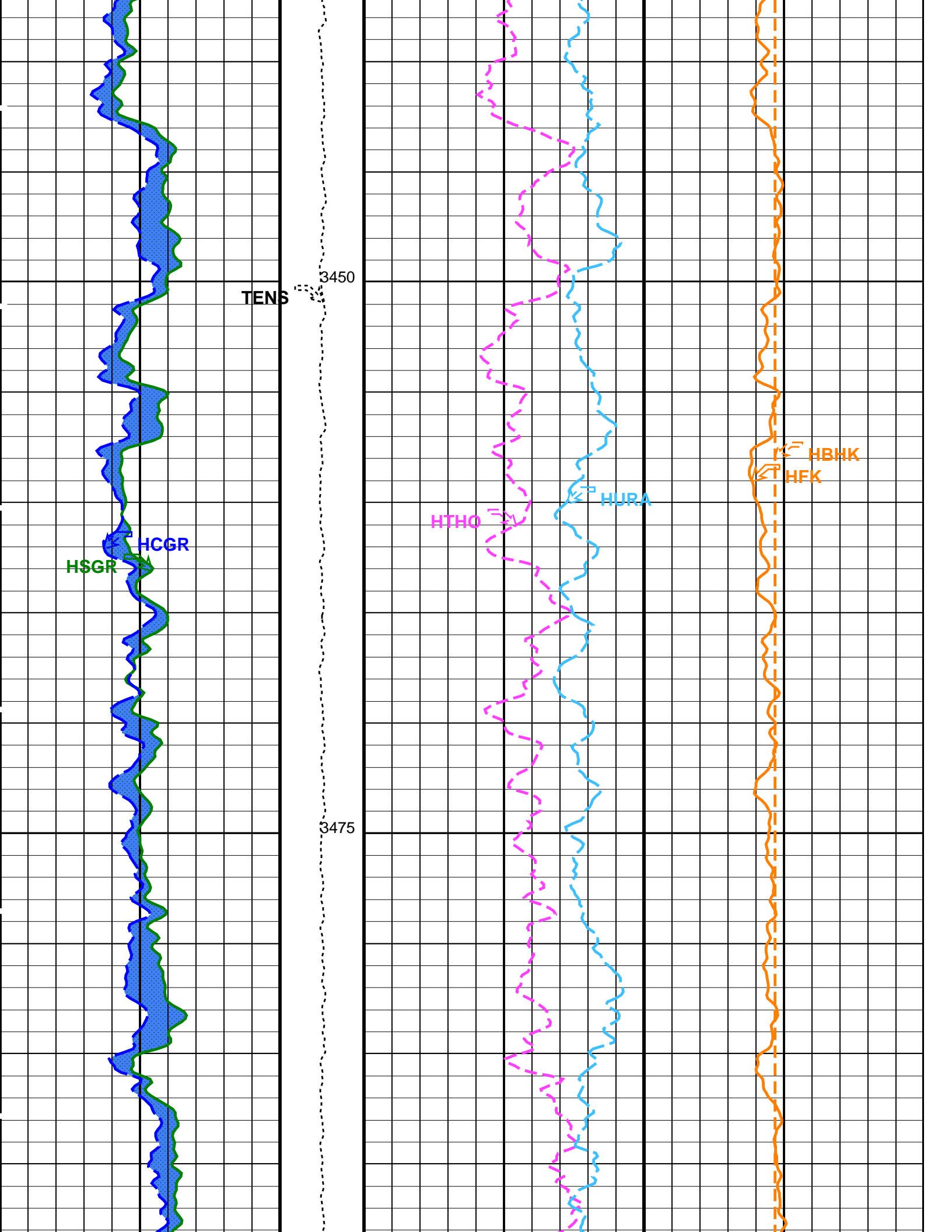
3300

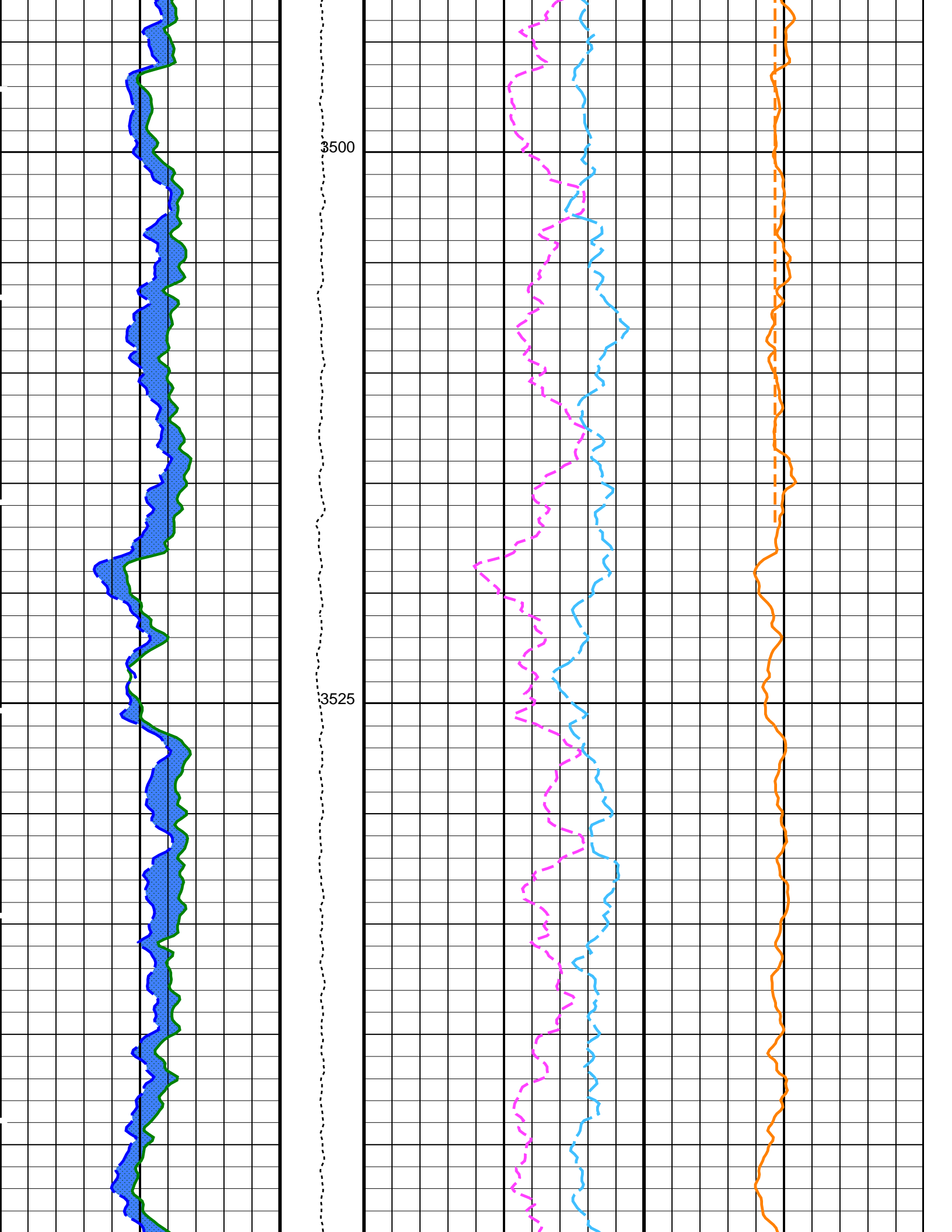
3325

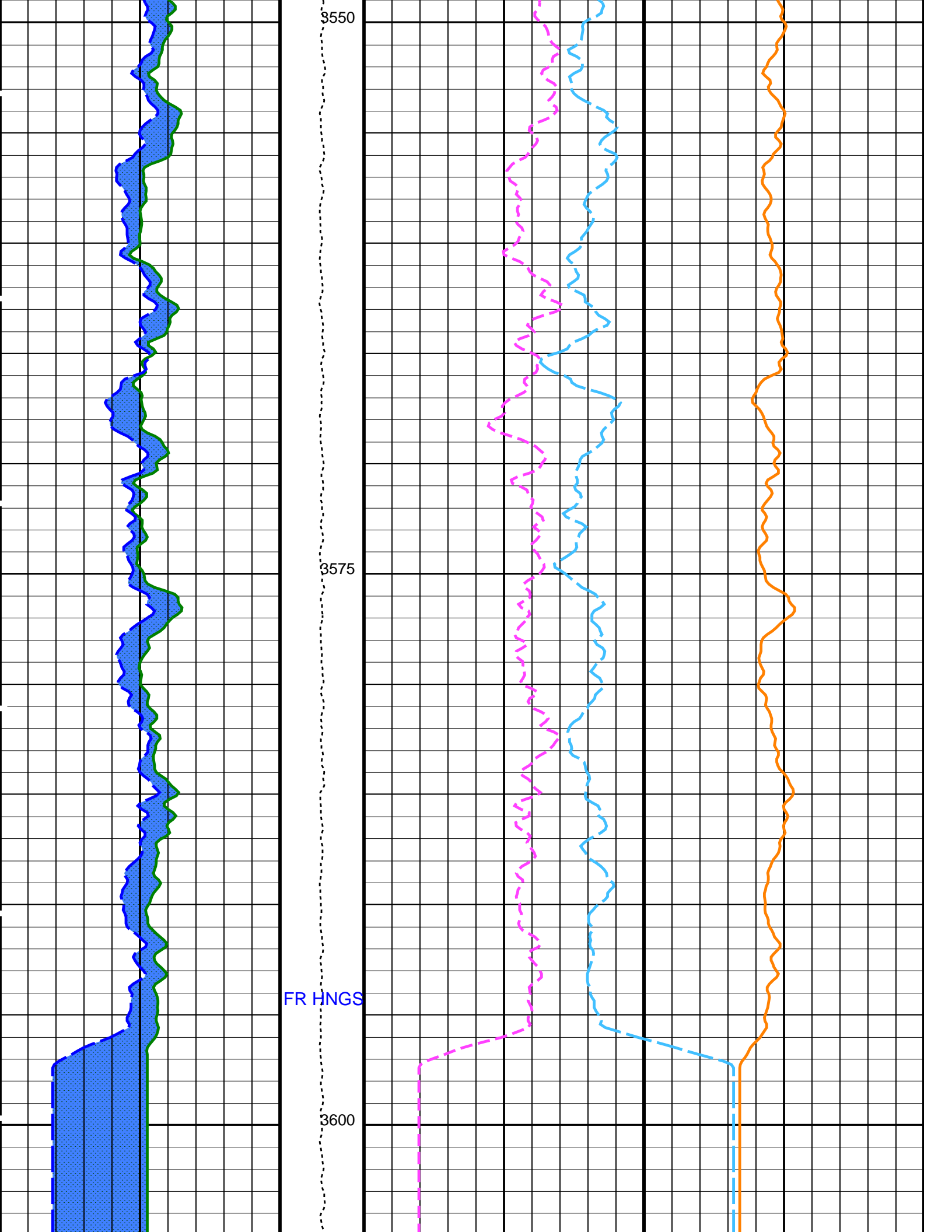


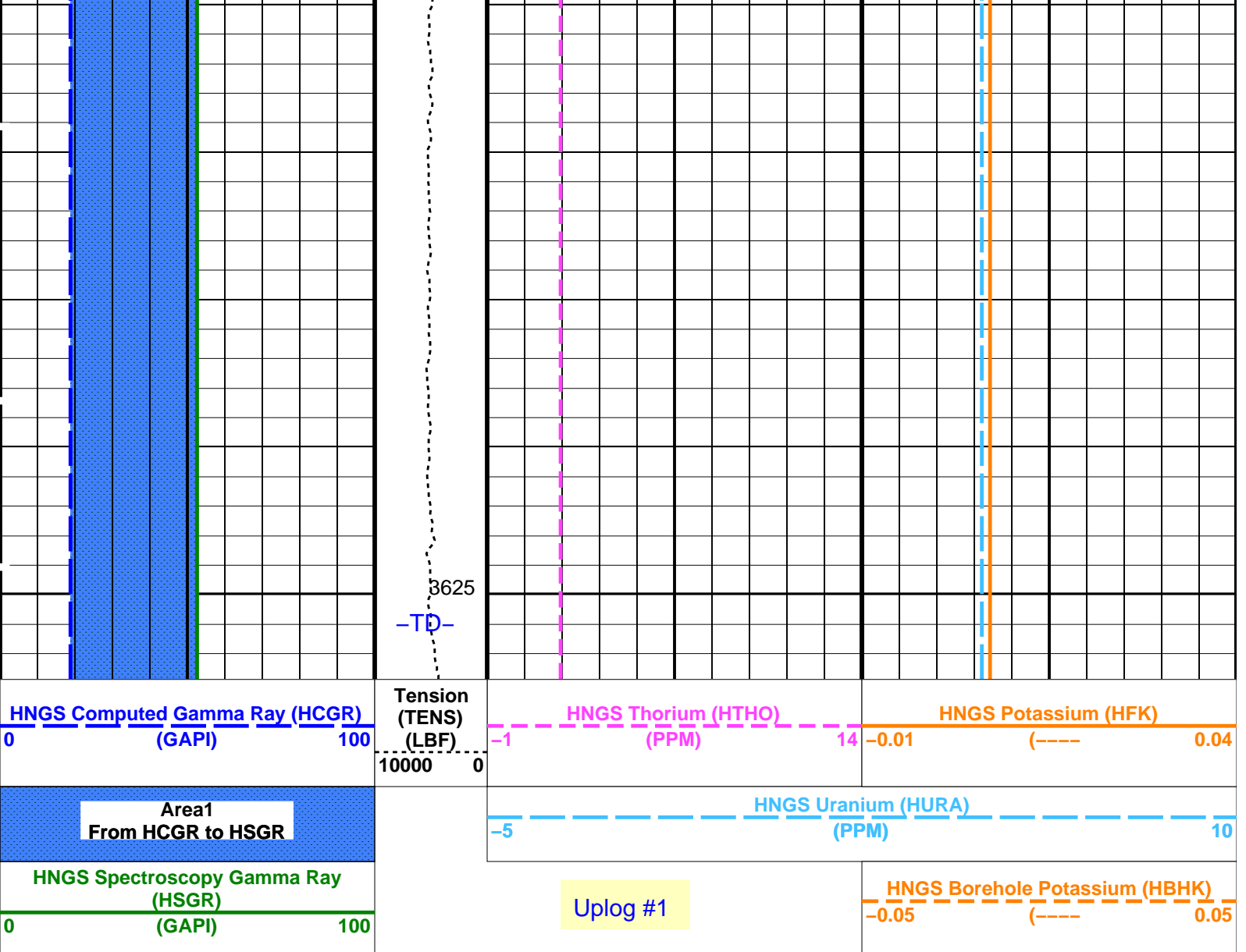












PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DSST-B: Dipole Shear Imager - B		
BHS	Borehole Status	OPEN
GCSE	Generalized Caliper Selection	BS
HNGS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	1
BAR2	HNGS Detector 2 Barite Constant	1
BHK	HNGS Borehole Potassium Correction Concentration	0
BHS	Borehole Status	OPEN
CSD1	Inner Casing Outer Diameter	0 IN
CSD2	Outer Casing Outer Diameter	0 IN
CSW1	Inner Casing Weight	0 LB/F
CSW2	Outer Casing Weight	0 LB/F
DBCC	HNGS Barite Constant Correction Flag	NONE
GCSE	Generalized Caliper Selection	BS
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW
HABK	HNGS Borehole Potassium Running Average	-0.00353927
HALF	HNGS Alpha Filter Length	60 IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE
HMWM	Mud Weighting Material	BARI
HNPE	HNGS Processing Enable	YES
S1BI	HNGS Detector 1 Calibration Bismuth Count Rate	1.3 CPS
S2BI	HNGS Detector 2 Calibration Bismuth Count Rate	1.3 CPS
SGRC	HNGS Standard Gamma-Ray Correction Flag	YES
TPOS	Tool Position	ECCE
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.951237
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.958169

System and Miscellaneous

BS Bit Size
DFD Drilling Fluid Density

9.875 IN
1.22 G/C3

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 23-Feb-2010 12:38

OP System Version: 17C0-154

MEST-B	SRPC-3870_Q3_2009_OP17_V3_b	DTA-A	17C0-154
DSST-B	17C0-154	HNGC-B	17C0-154
HNGS-BA	17C0-154	DTC-H	17C0-154

Output DLIS Files

DEFAULT	FMS_DSI_NGS_016LUP	FN:24	PRODUCER	23-Feb-2010 12:38
BACKUP	FMS_DSI_NGS_016LUP	FN:25	PRODUCER	23-Feb-2010 14:38

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
General Purpose Inclinometer Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 23-Feb-2010 0:21							
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: 23-Feb-2010 0:22							
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 Litho-Density Sonde Wellsite Calibration – Background Measurement							
Master: 1-Jan-2010 22:54 Before: 17-Jan-2010 0:16							
SS Cs Resolution Bkg	9.000	7.783	7.716	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	8.079	8.019	N/A	N/A	1.800	%
LSW1 Background	100.0	91.64	91.89	N/A	N/A	0.03000	CPS
LSW2 Background	100.0	82.70	82.51	N/A	N/A	0.03000	CPS
LSW3 Background	200.0	187.7	186.7	N/A	N/A	0.03000	CPS
LSW4 Background	250.0	231.1	233.3	N/A	N/A	0.03000	CPS
LSW5 Background	600.0	541.2	543.9	N/A	N/A	0.03000	CPS
SSW1 Background	100.0	90.66	89.76	N/A	N/A	0.03000	CPS
SSW2 Background	200.0	151.1	152.5	N/A	N/A	0.03000	CPS
SSW3 Background	500.0	428.0	428.1	N/A	N/A	0.03000	CPS
SSW4 Background	270.0	227.6	230.6	N/A	N/A	0.03000	CPS
SSW5 Background	200.0	164.5	164.7	N/A	N/A	0.03000	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Aluminum Measurement							
Master: 1-Jan-2010 22:54							
LSW1 Aluminum	600.0	567.9	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	809.6	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	970.5	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	493.5	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	444.3	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2502	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6870	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9624	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3962	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	476.3	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration – Lithology Measurement							
Master: 1-Jan-2010 22:54							
LSW1 Iron	400.0	389.4	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	659.2	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	867.1	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	449.5	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	410.2	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1833	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5740	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8814	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4800	3825	N/A	N/A	N/A	N/A	CPS

SSW4 Iron	4600	3635	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	422.7	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration – Caliper Calibration

Before: 16-Jan-2010 19:05

HLDS Caliper Small Ring	12.00	N/A	14.54	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	18.04	N/A	N/A	N/A	IN

Accelerator-Porosity Tool Wellsite Calibration – Detector Background

Master: 1-Jan-2010 22:21 Before: 16-Jan-2010 23:48

Near Det Bkg Cntrate	30.00	33.05	31.59	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	32.94	33.93	N/A	N/A	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	29.80	29.78	N/A	N/A	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	29.33	29.56	N/A	N/A	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.63	34.21	N/A	N/A	N/A	CPS

Accelerator-Porosity Tool Wellsite Calibration – Calibration Ratios

Master: 1-Jan-2010 22:21

Near/Far Calibration Ratio	0.9250	0.8901	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.060	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.006	N/A	N/A	N/A	N/A	

Accelerator-Porosity Tool Wellsite Calibration – Tank Check

Master: 1-Jan-2010 22:21

Array-1 Standoff Porosity	11.75	11.67	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.50	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.851	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9891	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	0.9855	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.54	N/A	N/A	N/A	N/A	CU

Accelerator-Porosity Tool Wellsite Calibration – CCR7 signal boxes

Master: 1-Jan-2010 22:21

Near Detector Plateau Setting	1650	1738	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2098	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1968	N/A	N/A	N/A	N/A	V

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check

Master: 1-Jan-2010 19:23 Before: 16-Jan-2010 20:44

Na 511 Peak Loc	40.00	39.63	39.63	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.18	14.78	N/A	N/A	2.000	%
High Voltage	1150	1161	1177	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.1	142.4	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.816	10.01	N/A	N/A	2.000	%
Temperature	15.50	22.69	14.92	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	33.90	33.64	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check

Master: 1-Jan-2010 19:23 Before: 16-Jan-2010 20:44

Na 511 Peak Loc	40.00	39.69	39.65	N/A	N/A	1.000	
Na 511 Peak Res	15.50	15.48	14.73	N/A	N/A	2.000	%
High Voltage	1150	1095	1081	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.2	141.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.546	8.949	N/A	N/A	2.000	%
Temperature	15.50	23.40	15.62	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	33.69	33.51	N/A	N/A	8.000	CPS

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

Master: 1-Jan-2010 19:23 Before: 16-Jan-2010 20:44

Coincidence Count Rate Ratio	1.000	1.006	1.005	N/A	N/A	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 1-Jan-2010 19:02

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	210.4	--	--	--	--	
Th Peak Res	7.000	6.564	--	--	--	--	%
Background Count Rate	142.5	18.85	--	--	--	--	CPS
Gain Ratio	1.000	1.010	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration

Master: 1-Jan-2010 19:02

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.1	--	--	--	--	
Th Peak Res	7.000	6.559	--	--	--	--	%
Background Count Rate	142.5	18.64	--	--	--	--	CPS
Gain Ratio	1.000	1.002	--	--	--	--	

Accelerator-Porosity Tool – Detector Plateau Settings :

Near Detector Plateau Setting 1738 V

Dual Induction – E / Equipment Identification

Primary Equipment:		
Dual Induction Sonde	DIS – HB	129
Dual Induction Cartridge	DIC – EB	171
Auxiliary Equipment:		
Mass Isolated Housing	MIH – ZA	342

General Purpose Inclinator / Equipment Identification

Primary Equipment:		
GPIT Cartridge – AC	GPIC – AC	719
Auxiliary Equipment:		
GPIT Housing	GPIH – A	2864

Hostile Litho–Density Sonde / Equipment Identification

Primary Equipment:		
Hostile Litho Density Sonde	HLDS – D	57
Hostile Litho Density High Voltage	HLDV – D	51
Gamma Source Radioactive	GSR – Z	2397
Auxiliary Equipment:		
Hostile Litho Density Pad	HLDP – C	61
Hostile Litho Density High Voltage Housi	HEH – H	53

Litho–Density Spectroscopy Cartridge – B / Equipment Identification

Primary Equipment:		
LDSC Cartridge	LDSC – B	326
Auxiliary Equipment:		
LDSC Housing	LDSH – A	319

Accelerator–Porosity Tool / Equipment Identification

Primary Equipment:		
Accelerator–Porosity Sonde	APS – C	22
APS Minitron	MNTR – F	5589
Auxiliary Equipment:		
Accelerator–Porosity Housing	APH – AC	22
APS Calibration Water Tank	SFT – 178	2
APS Aluminum Calibrator Sleeve	SFT – 281	2

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

Auxiliary Equipment:
 HNGS Sonde Housing
 Gamma Source Radioactive

HNGS – BA 194

HNSH – BA 205
 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			39.63	Master			15.18	Master			1161
Before			39.63	Before			14.78	Before			1177
	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			142.1	Master			8.816	Master			22.69
Before			142.4	Before			10.01	Before			14.92
	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			33.90								
Before			33.64								
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)								
Master: 1-Jan-2010 19:23				Before: 16-Jan-2010 20:44							

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			39.69	Master			15.48	Master			1095
Before			39.65	Before			14.73	Before			1081
	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			142.2	Master			8.546	Master			23.40
Before			141.8	Before			8.949	Before			15.62
	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			33.69								
Before			33.51								
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)								
Master: 1-Jan-2010 19:23				Before: 16-Jan-2010 20:44							

Hostile Natural Gamma Ray Sonde Wellsite Calibration			
Ratio Of Detector 1 To Detector 2			
Phase	Coincidence Count Rate Ratio	Value	
Master		1.006	
Before		1.005	
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)
Master: 1-Jan-2010 19:23			
Before: 16-Jan-2010 20:44			

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			210.4	Master			6.564
	38.00 (Minimum)	40.00 (Nominal)	43.00 (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				

Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value
Master		18.85	Master		1.010
	10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)	

Master: 1-Jan-2010 19:02

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			209.1	Master			6.559
	38.00 (Minimum) 40.00 (Nominal) 43.00 (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			18.64	Master			1.002				
	10.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)				0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)						

Master: 1-Jan-2010 19:02

DTS Telemetry Tool / Equipment Identification		
Primary Equipment:		
DTC-H Auxiliary Cartridge	DTCH - A	8799
DTC-H Telemetry Cartridge	DTCH - A	8799
Auxiliary Equipment:		
DTCH Telemetry Cartridge Housing	ECH - KC	9842

Company:	Lamont Doherty	Schlumberger
Well:	Expedition 318 Site U1359D	
Field:	Wilkes Land	
Rig:	JOIDES Resolution	
Country:	Antarctica	
Natural Gamma Ray Spectroscopy (HNCS)		