

**Company:** Lamont Doherty

**Well:** Expedition 309 Site U1256D

**Field:** Superfast Spreading Crust

**Rig:** Joides Resolution Ocean: Pacific Ocean

**Hostile Natural Gamma Ray**

**Rig:** Joides Resolution  
**Field:** Superfast Spreading Crust  
**Location:**  
**Well:** Expedition 309 Site U1256D  
**Company:** Lamont Doherty

LOCATION		Elev.:	K.B.	11.3 m
Permanent Datum:		G.L. -3645 m		
Log Measured From: _____		D.F. 11 m		
Drilling Measured From: _____				
API Serial No. _____		Elev.: 0 m		
Max. Hole Devi. _____		11.0 m above Perm. Datum		
21-Aug-2005		Longitude		Latitude
Two		91° 56.0612 W		6° 44.1631 N

Logging Date	21-Aug-2005	
Run Number	Two	
Depth Driller	4900 m	
Schlumberger Depth	4900 m	
Bottom Log Interval	4871 m	
Top Log Interval	4200 m	
Casing Driller Size @ Depth	0.000 in @ 3914 m	
Casing Schlumberger	3914 m	
Bit Size	9.875 in	
Type Fluid In Hole	Sea water	
Density	1.07 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		
Circulation Stopped	Time	20-Aug-2005 20:00
Logger On Bottom	Time	21-Aug-2005 16:20
Unit Number	Location	2082 Webster, TX
Recorded By	Javier Espinosa	
Witnessed By	Florence Einaudi, Akram Belghoui	

Logging Date	21-Aug-2005	
Run Number	Two	
Depth Driller	4900 m	
Schlumberger Depth	4900 m	
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Bit Size	9.875 in	
Type Fluid In Hole	Sea water	
Density	1.07 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		
Circulation Stopped	Time	20-Aug-2005 20:00
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Unit Number	Location	2082 Webster, TX
Recorded By	Javier Espinosa	
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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		
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Unit Number	Location	2082 Webster, TX
Recorded By	Javier Espinosa	
Witnessed By	Florence Einaudi, Akram Belghoui	

Run 1

Run 2

Run

**DISCLAIMER**

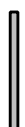


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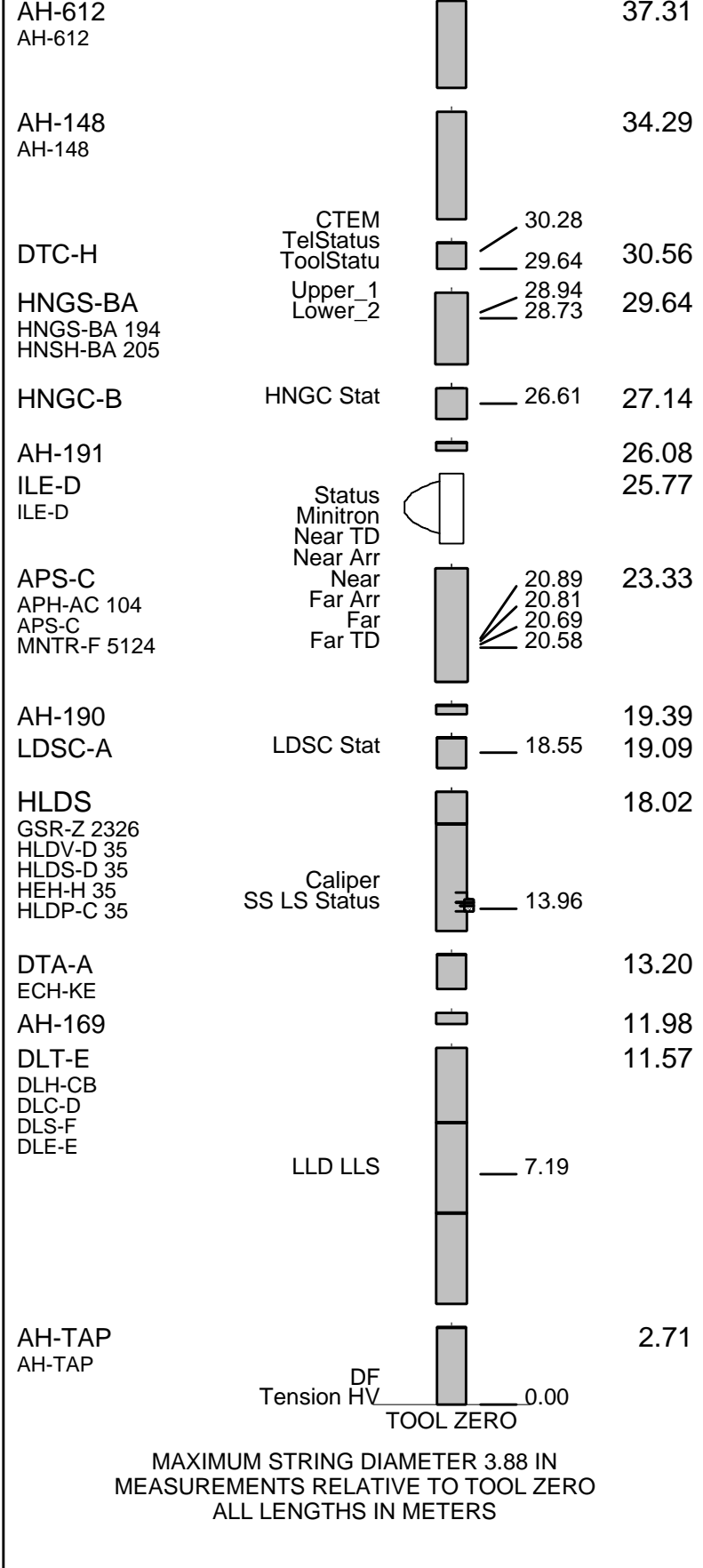
OTHER SERVICES1 OS1: DLT, HLDS, APS OS2: MEST, DSI OS3: TAP OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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REMARKS: RUN NUMBER 1 All parameters and presentations as per IODP standards Tool ran as per tool sketch below. Casing and sea floor depth information provided by IODP TD not reached due to hole conditions Hole top section logged in ODP leg 206 and Exp 309. Log correlated with run One.	REMARKS: RUN NUMBER 2
--	-----------------------

RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: 12C0-301 FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

**EQUIPMENT DESCRIPTION**

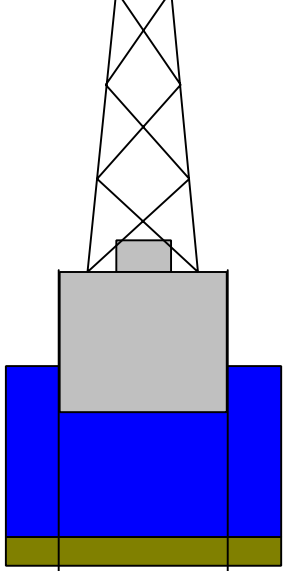
RUN 1		RUN 2	
SURFACE EQUIPMENT LCM-AA SFT-281 6250 SFT-178 6250 GSR-U 135 WITM (DTS)-A			
DOWNHOLE EQUIPMENT			
BSP BRT-S		62.59	
SP SPARC		41.53	
LEH-QT		38.20	



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

Kelly Bushing Elevation  
Derrick Floor Elevation  
  
Mean Sea Level

11.8  
11.8  
  
0.0



0.0 6.000

Casing String



3645.0 9.875  
3914.0 6.000

Borehole Segment  
Casing Shoe

**Schlumberger**

MAIN PASS

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 309 Site U1256D

Output DLIS Files

DEFAULT	DLL_LDL_APS_NGS_031LUP	FN:32	PRODUCER	21-Aug-2005 16:11	4871.5 M	4165.4 M
REDUCED	DLL_LDL_APS_NGS_031LUP	FN:33	PRODUCER	21-Aug-2005 16:11	4871.5 M	4165.4 M

OP System Version: 12C0-301

MCM

DLT-E	12C0-301	DTA-A	12C0-301
HLDS	SPC-2602-NUCL_b	LDSC-A	SPC-2602-NUCL_b
APS-C	SPC-2602-NUCL_b	HNGC-B	SPC-2602-NUCL_b
HNGS-BA	SPC-2602-NUCL_b	DTC-H	12C0-301
BSP	12C0-301		

PIP SUMMARY

Time Mark Every 60 S

HNGS Spectroscopy Gamma Ray (HSGR)		
0	(GAPI)	20
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)	20

HLDS Caliper (LCAL)		
0	(IN)	20

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

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

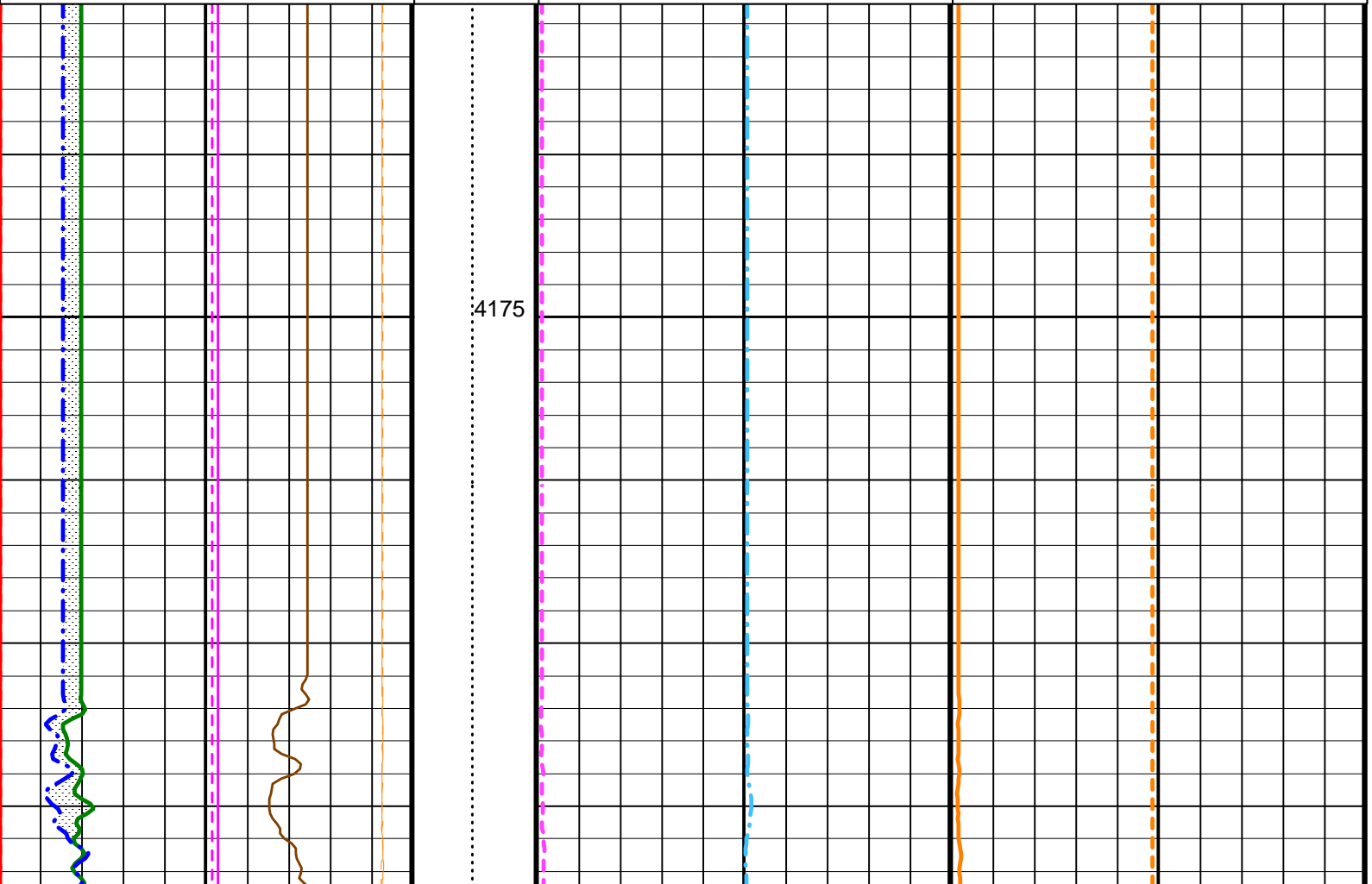
HNGS Uranium (HURA)		
-10	(PPM)	30

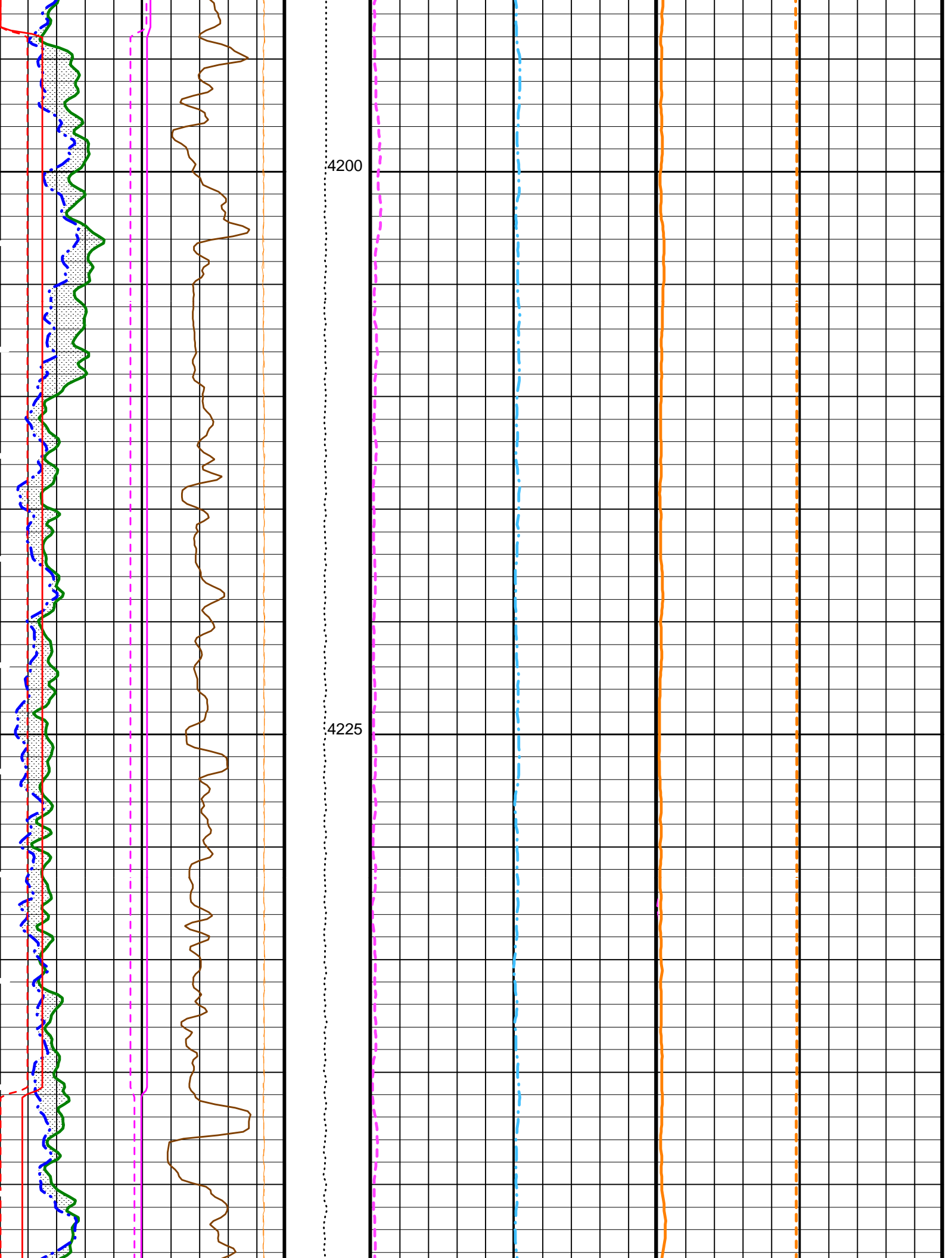
HNGS Det.1 Chi Squared (CHI1)		
10	(----	0

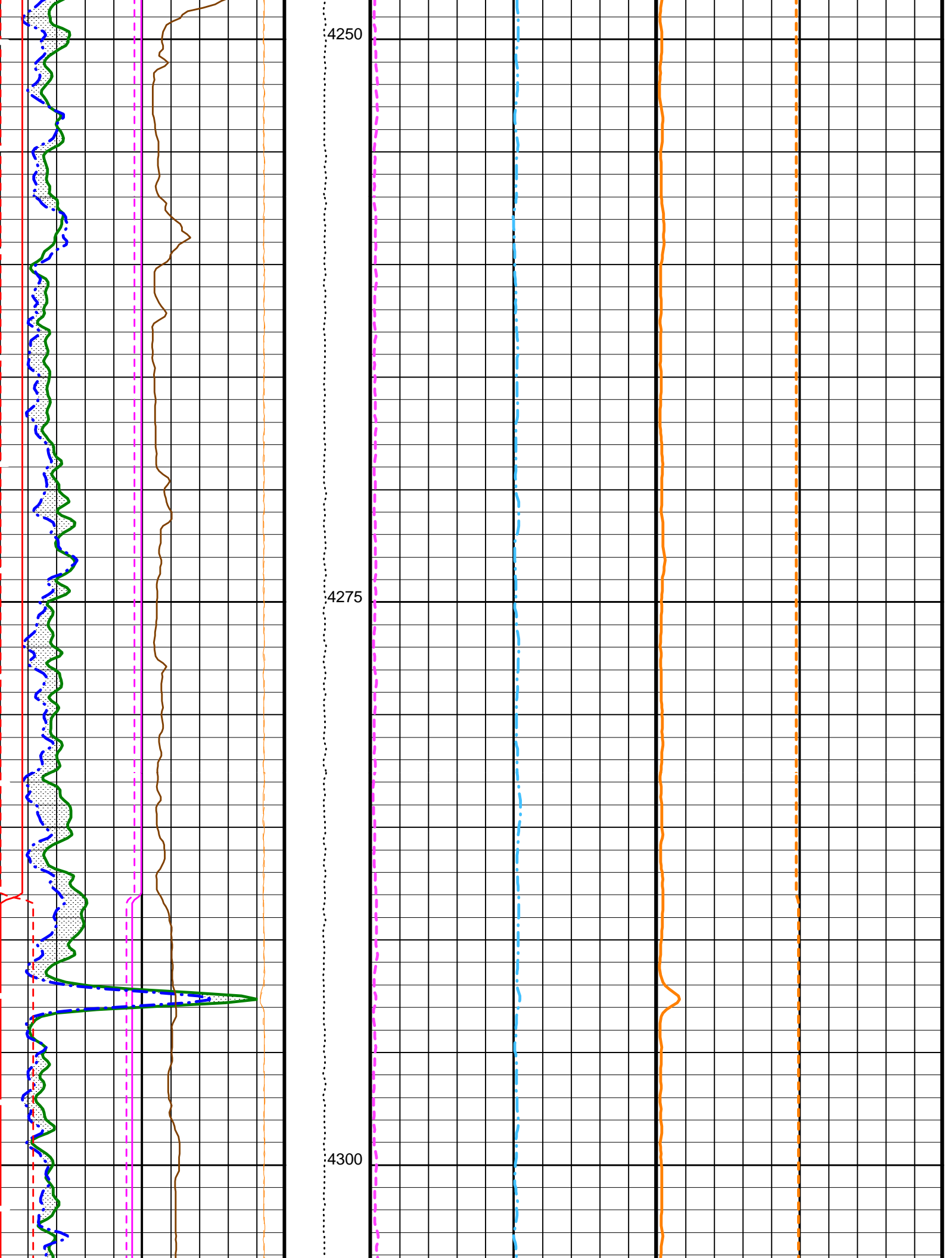
Tension (TENS) (LBF)	
10000	0

HNGS Thorium (HTHO)		
0	(PPM)	30

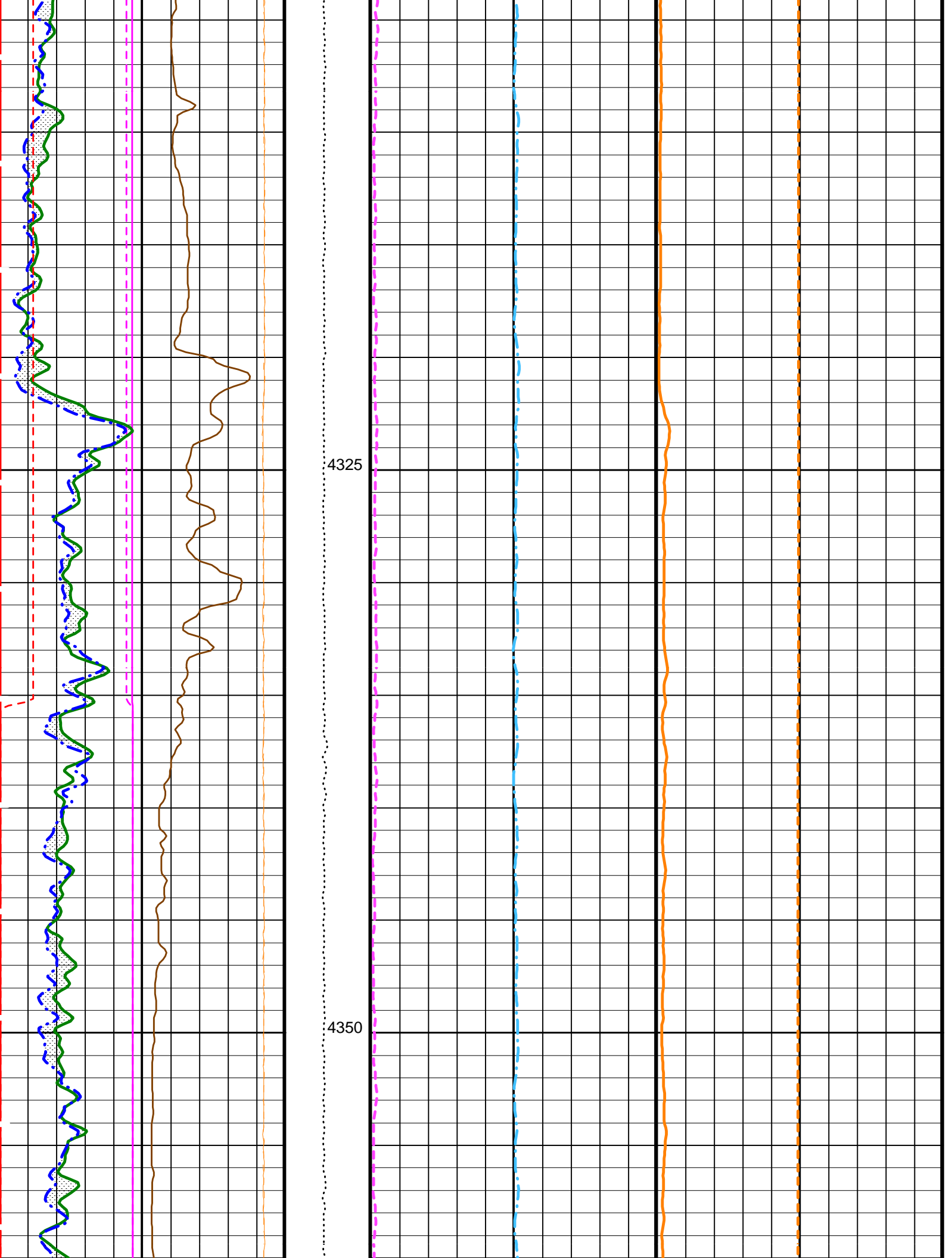
HNGS Potassium (HFK)		
0	(V/V)	0.1

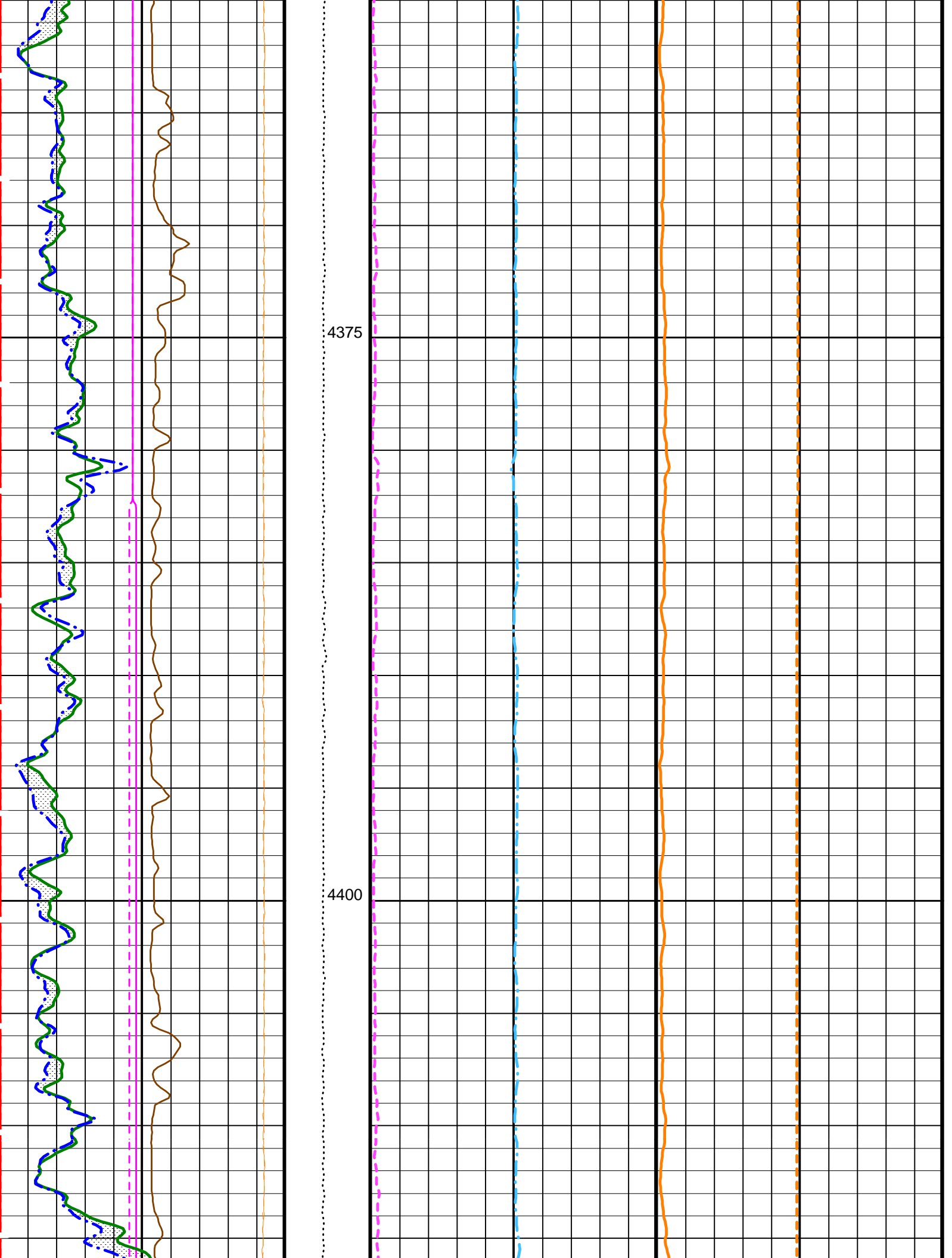


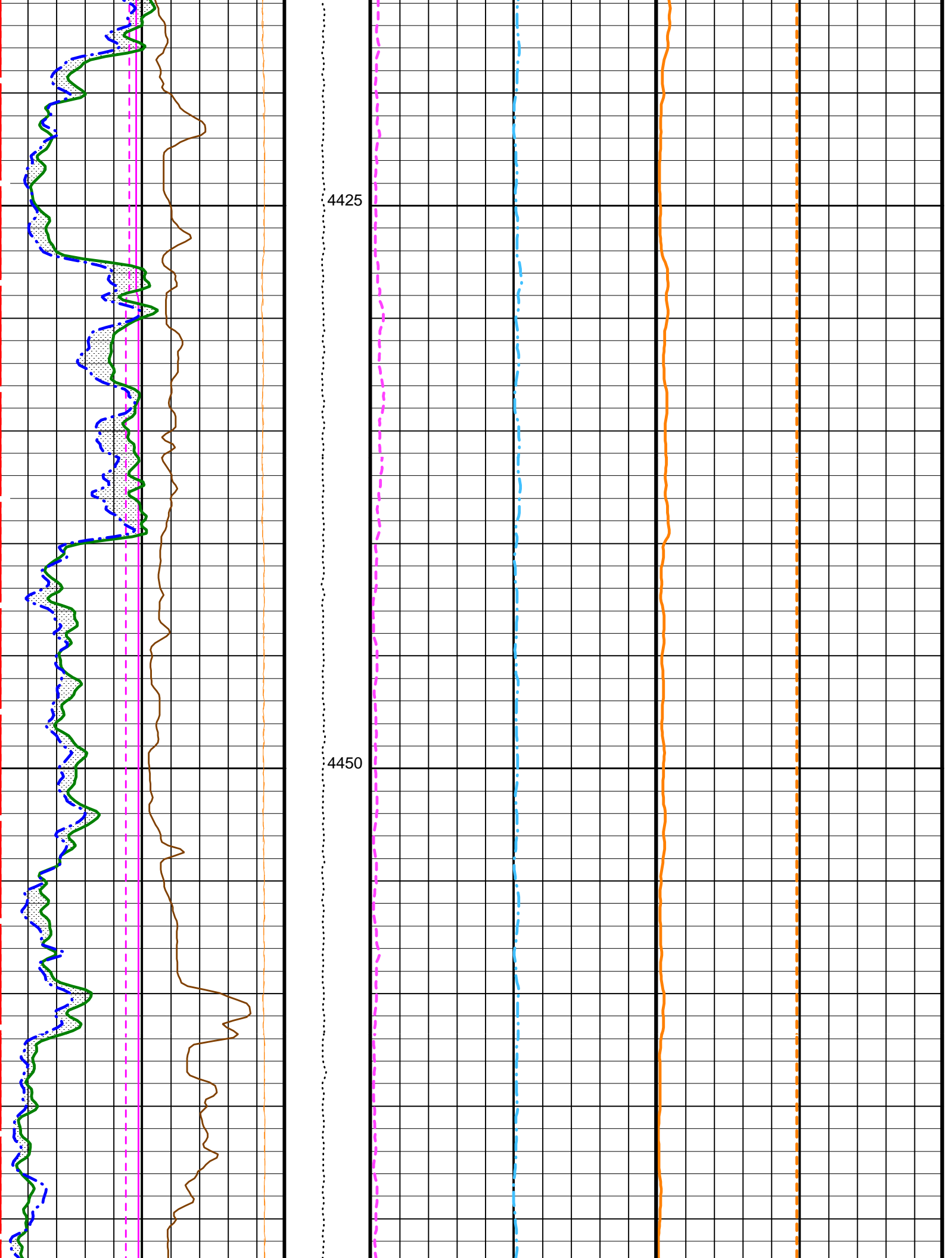


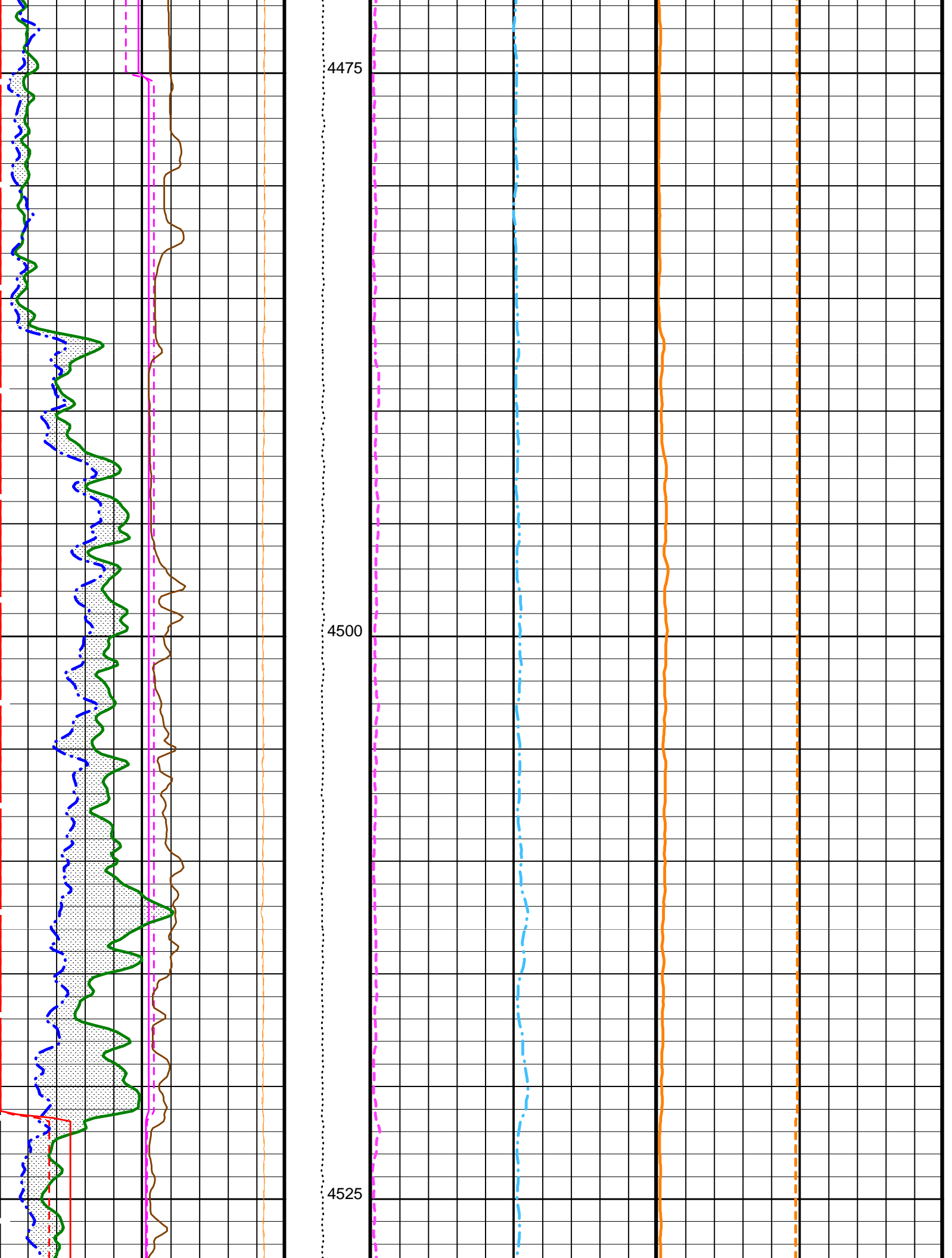


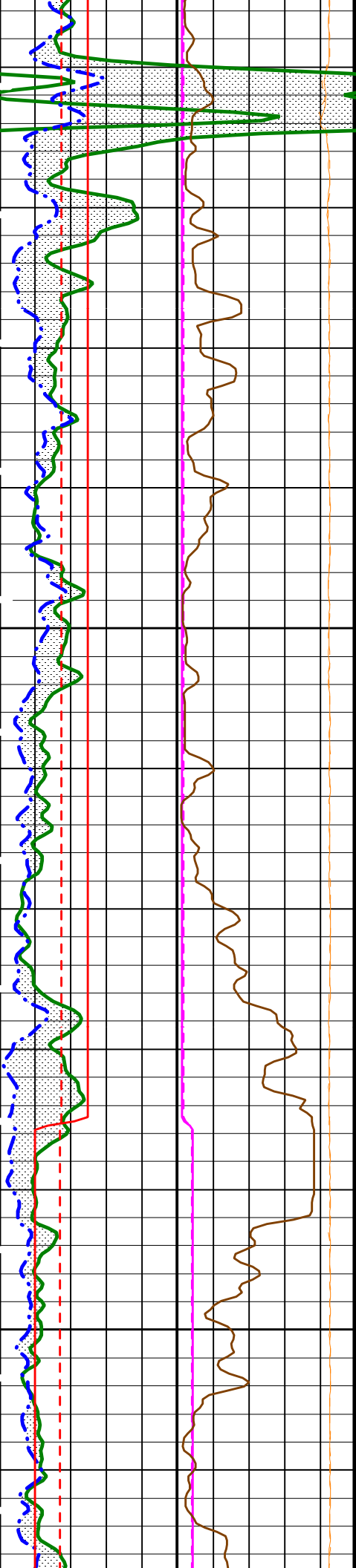






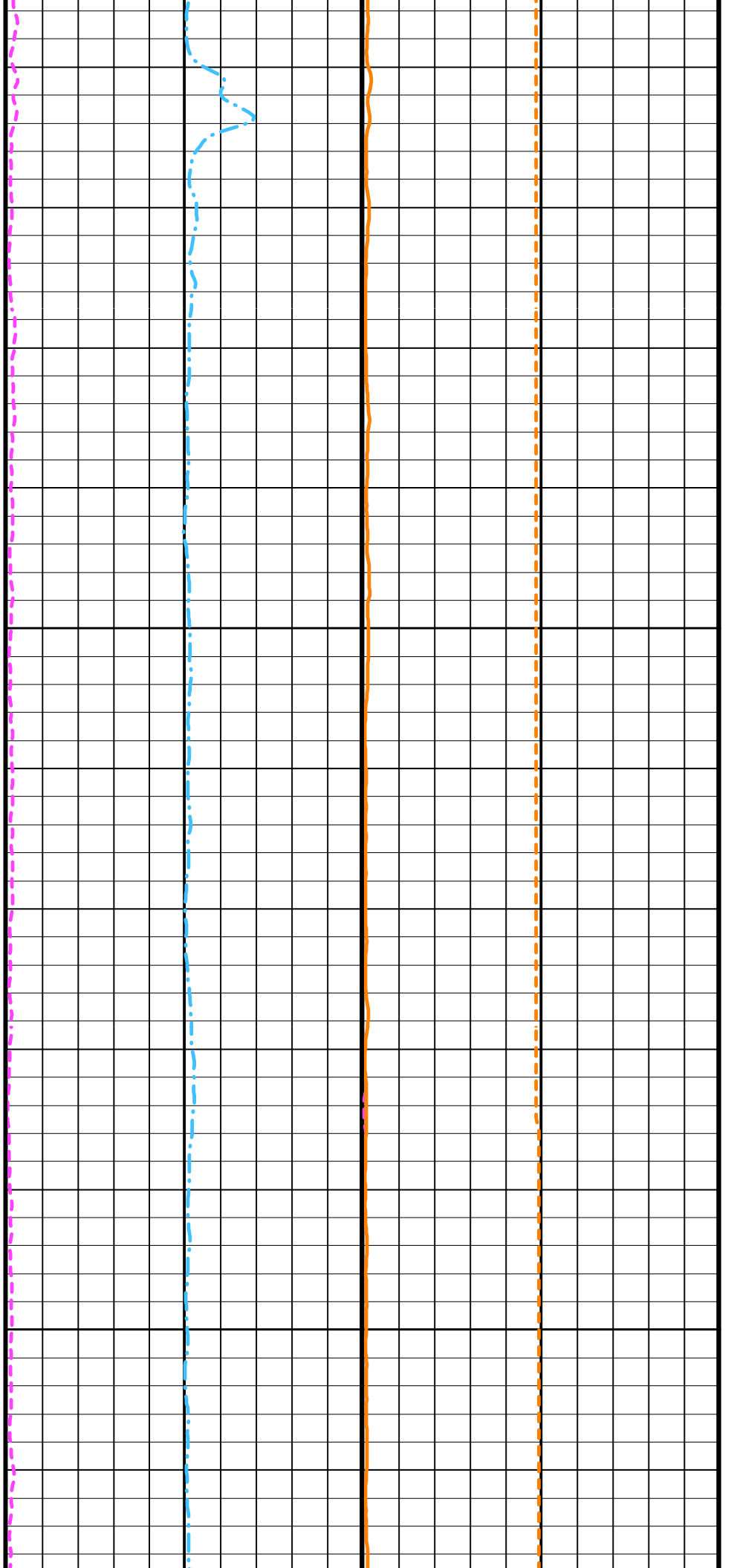


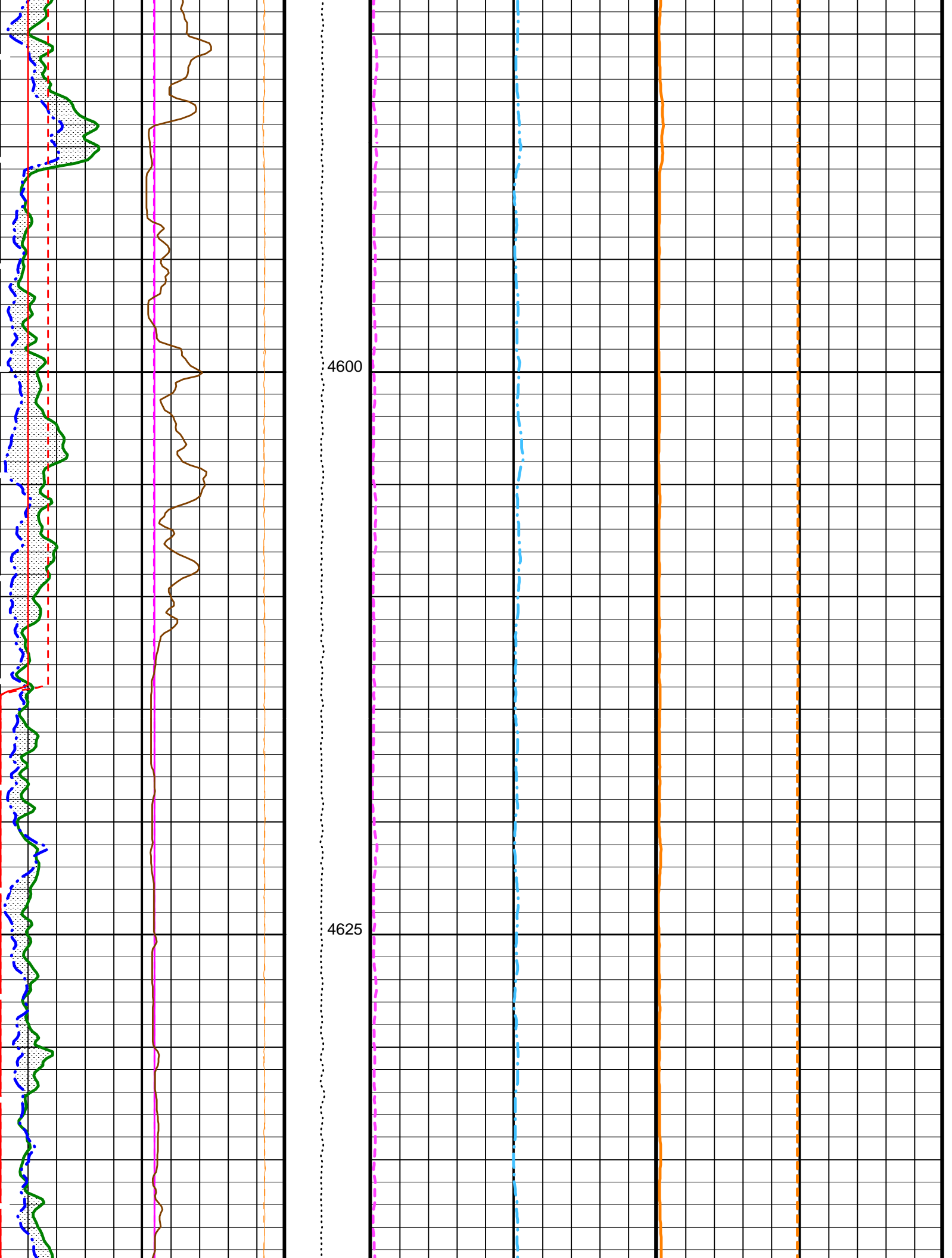


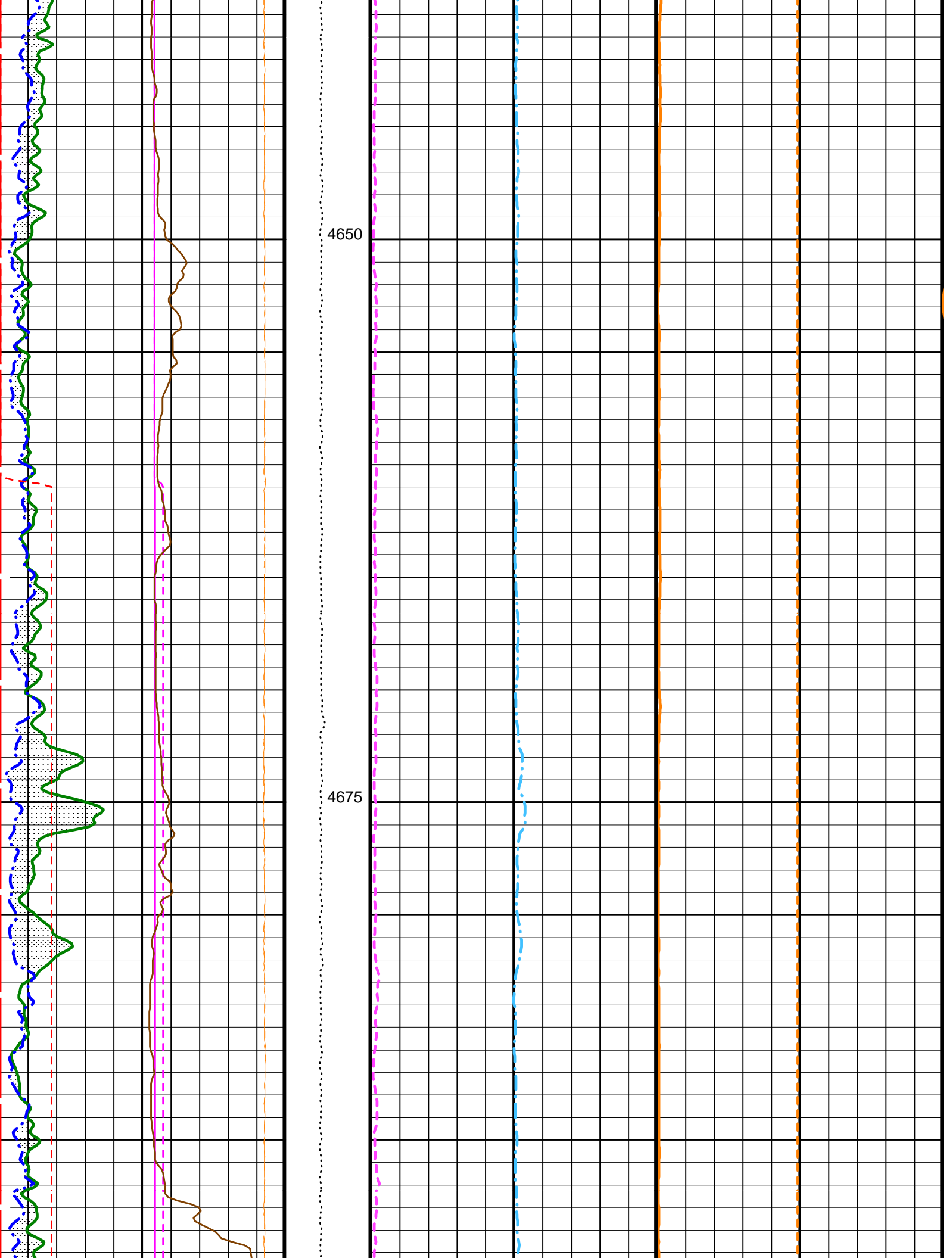


4550

4575

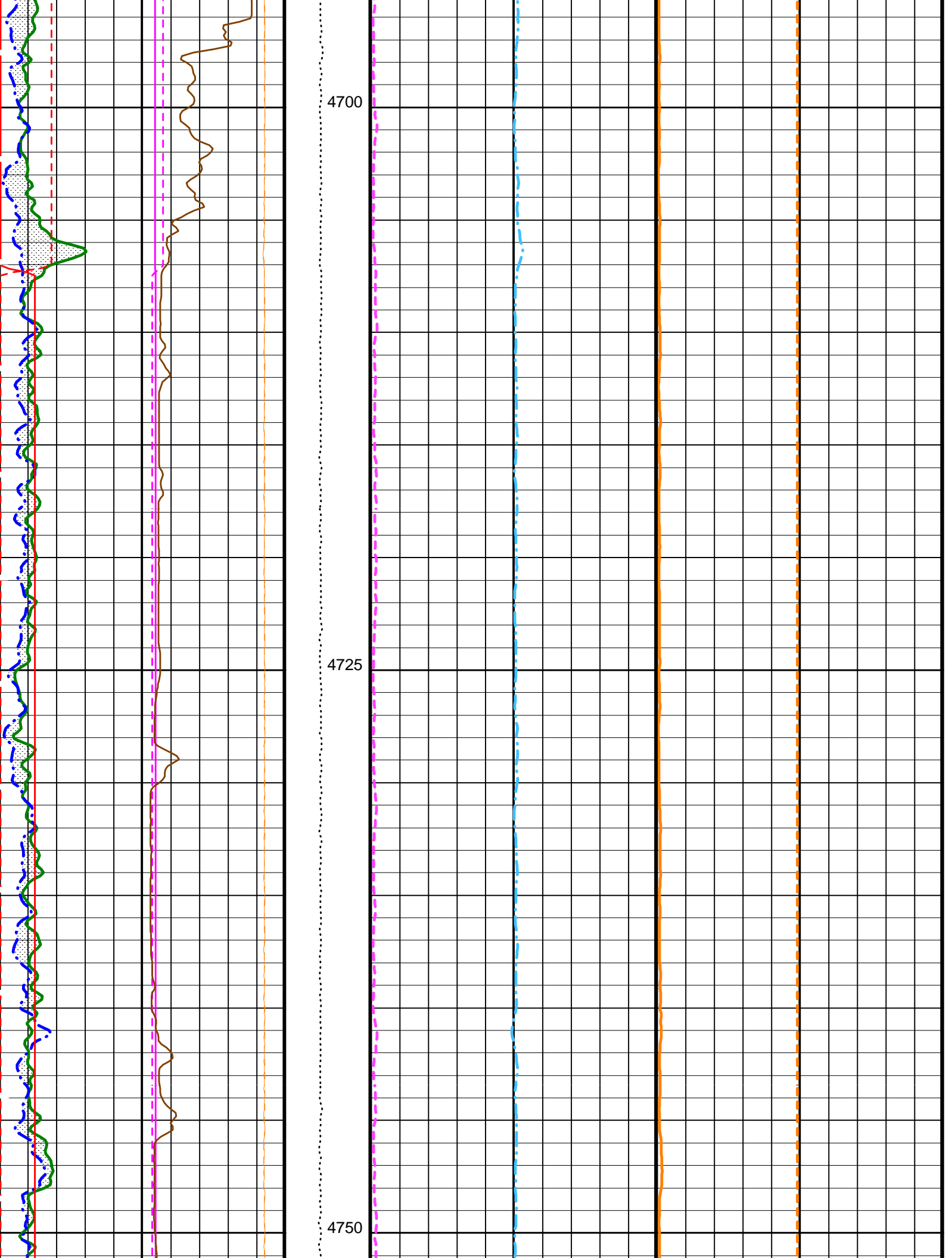




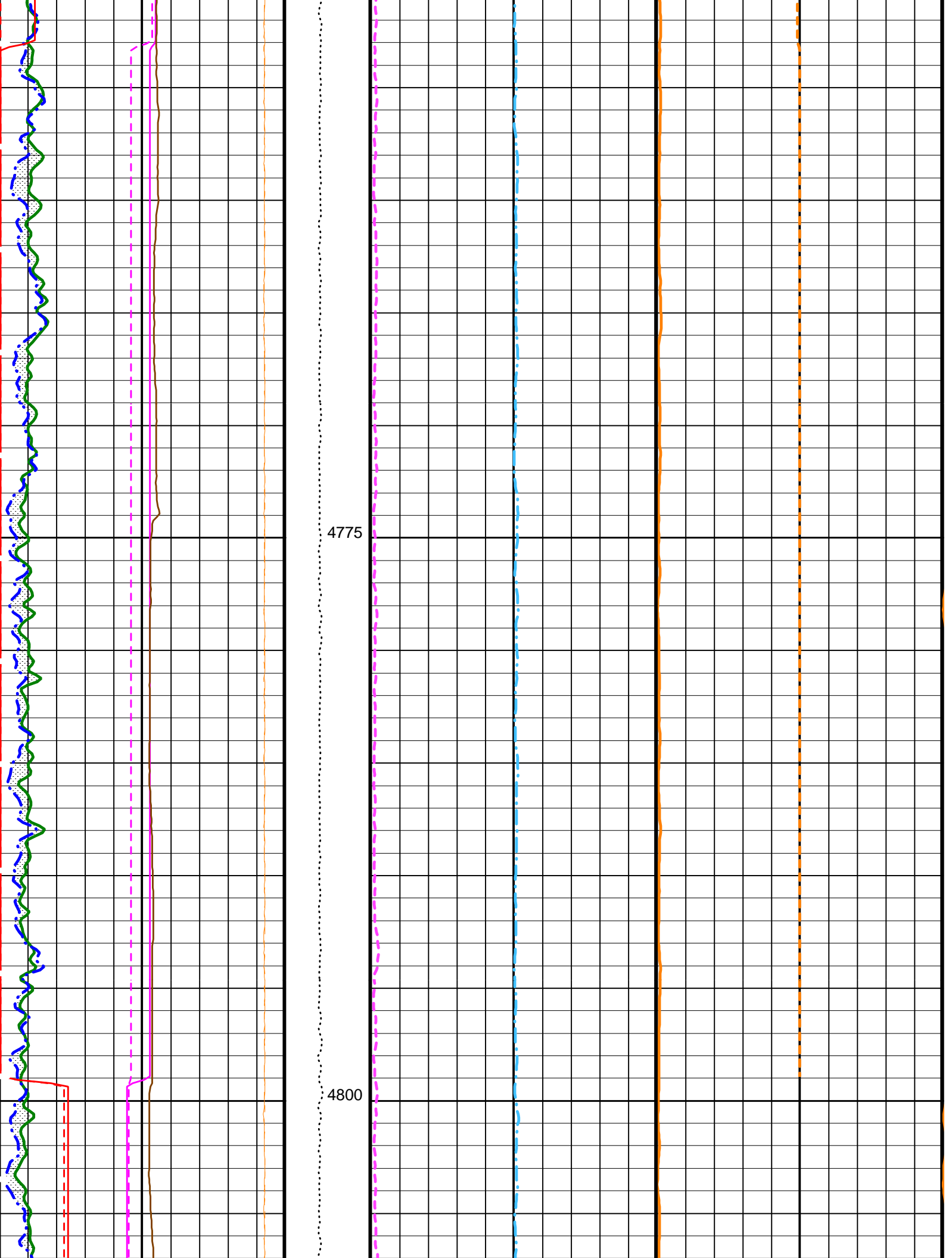


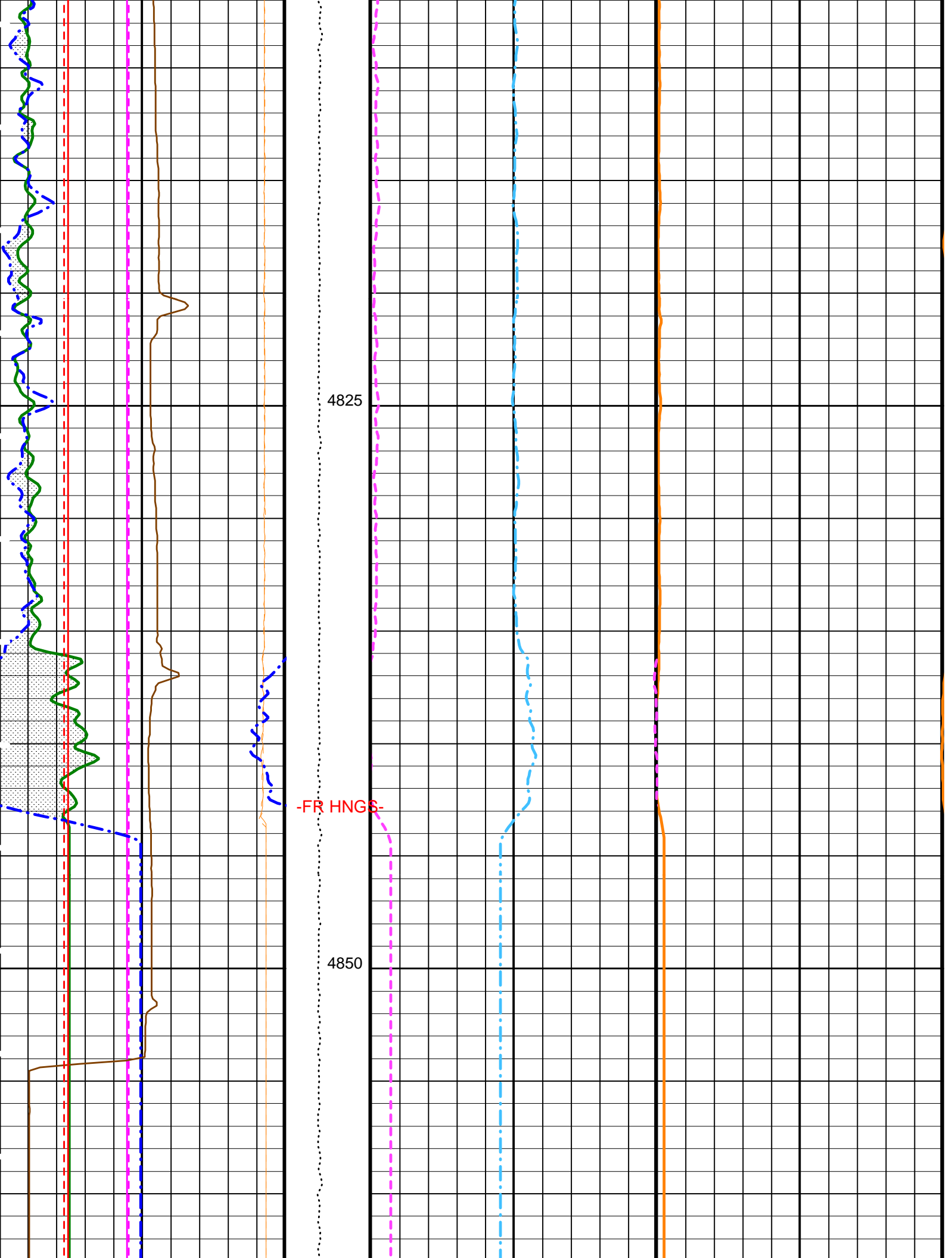
4650

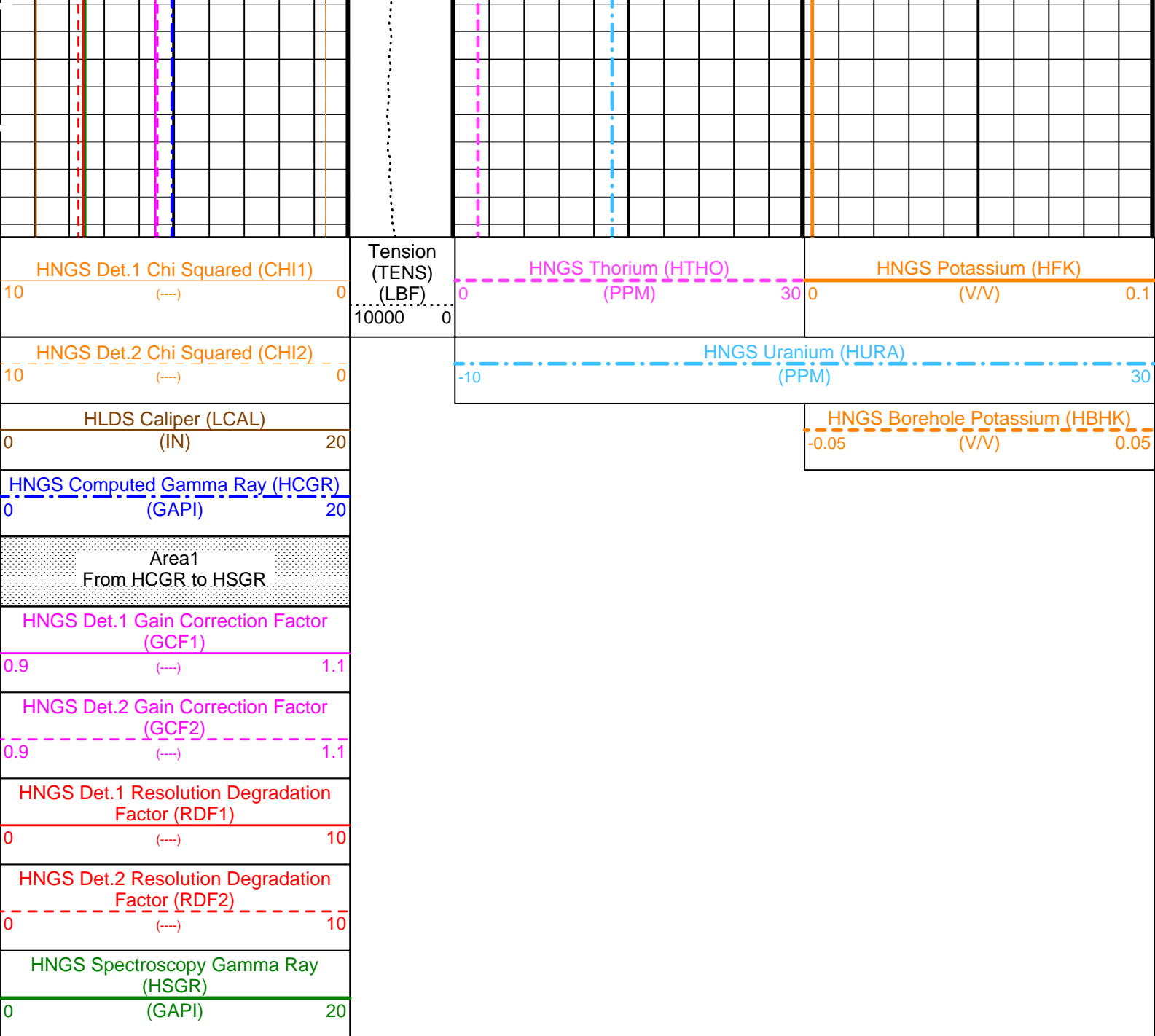
4675











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	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	-0.00127533
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	1.10974	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.1427	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.07	G/C3

Format: HNGSYields    Vertical Scale: 1:200    Graphics File Created: 21-Aug-2005 16:11

**OP System Version: 12C0-301**  
MCM

DLT-E	12C0-301	DTA-A	12C0-301
HLDS	SPC-2602-NUCL_b	LDSC-A	SPC-2602-NUCL_b
APS-C	SPC-2602-NUCL_b	HNGC-B	SPC-2602-NUCL_b
HNGS-BA	SPC-2602-NUCL_b	DTC-H	12C0-301
BSP	12C0-301		

**Output DLIS Files**

DEFAULT	DLL_LDL_APS_NGS_031LUP	FN:32	PRODUCER	21-Aug-2005 16:11
REDUCED	DLL_LDL_APS_NGS_031LUP	FN:33	PRODUCER	21-Aug-2005 16:11



**CALIBRATIONS**

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
<b>DUAL LATEROLOG - E Wellsite Calibration - DLT ELECTRONICS CALIBRATION Laterolog Measurement</b>							
Before: 21-Aug-2005 15:10							
MEASURED LLD	31.62	N/A	31.91	N/A	N/A	0.9000	OHMM
MEASURED LLS	31.62	N/A	35.15	N/A	N/A	0.9000	OHMM
<b>Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement</b>							
Master: 8-Aug-2005 5:15    Before: 19-Aug-2005 14:12							
SS Cs Resolution Bkg	9.000	8.500	8.513	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	8.161	8.134	N/A	N/A	1.800	%
LSW1 Background	100.0	82.14	82.13	N/A	N/A	3.000	CPS
LSW2 Background	100.0	74.99	73.91	N/A	N/A	3.000	CPS
LSW3 Background	200.0	169.1	165.4	N/A	N/A	6.000	CPS
LSW4 Background	250.0	207.4	206.5	N/A	N/A	7.500	CPS
LSW5 Background	600.0	464.2	464.6	N/A	N/A	18.00	CPS
SSW1 Background	100.0	79.48	80.15	N/A	N/A	3.000	CPS
SSW2 Background	200.0	141.1	139.4	N/A	N/A	6.000	CPS
SSW3 Background	500.0	376.6	373.7	N/A	N/A	15.00	CPS
SSW4 Background	270.0	198.6	199.3	N/A	N/A	8.100	CPS
SSW5 Background	200.0	143.3	143.2	N/A	N/A	6.000	CPS
<b>Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement</b>							
Master: 8-Aug-2005 7:18							
LSW1 Aluminum	600.0	547.9	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	848.8	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	1044	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	519.9	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	481.0	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2413	N/A	N/A	N/A	N/A	CPS

SSW2 Aluminum	8000	6977	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	10160	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	4265	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	578.6	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement

Master: 8-Aug-2005 7:13

LSW1 Iron	400.0	371.2	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	670.4	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	911.2	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	473.6	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	442.6	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1806	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5840	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	9264	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3901	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	507.2	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration

Before: 19-Aug-2005 14:15

HLDS Caliper Small Ring	8.000	N/A	10.80	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	15.00	N/A	N/A	N/A	IN

Accelerator-Porosity Tool Wellsite Calibration - Detector Background

Master: 15-Aug-2005 4:57 Before: 19-Aug-2005 14:13

Near Det Bkg Cntrate	30.00	25.36	24.74	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	26.40	25.53	N/A	N/A	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	27.15	26.46	N/A	N/A	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	26.59	25.96	N/A	N/A	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	26.22	24.09	N/A	N/A	N/A	CPS

Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios

Master: 15-Aug-2005 4:57

Near/Far Calibration Ratio	0.9250	0.9630	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	0.9878	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.011	N/A	N/A	N/A	N/A	

Accelerator-Porosity Tool Wellsite Calibration - Tank Check

Master: 15-Aug-2005 4:57

Array-1 Standoff Porosity	11.75	12.31	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.98	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.772	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	1.001	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	0.9963	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.56	N/A	N/A	N/A	N/A	CU

Accelerator-Porosity Tool Wellsite Calibration - CCR7 signal boxes

Master: 15-Aug-2005 4:57

Near Detector Plateau Setting	1650	1738	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2083	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1970	N/A	N/A	N/A	N/A	V

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: 19-Aug-2005 13:45 Before: 19-Aug-2005 14:13

Na 511 Peak Loc	40.00	39.55	39.60	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.41	16.70	N/A	N/A	2.000	%
High Voltage	1150	1122	1123	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.5	142.4	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.106	8.805	N/A	N/A	2.000	%
Temperature	15.50	34.58	34.64	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	47.00	46.61	N/A	N/A	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 19-Aug-2005 13:45 Before: 19-Aug-2005 14:13

Na 511 Peak Loc	40.00	39.60	39.60	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.71	16.38	N/A	N/A	2.000	%
High Voltage	1150	1200	1201	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.6	142.3	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.264	8.445	N/A	N/A	2.000	%
Temperature	15.50	33.67	33.88	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	46.77	46.05	N/A	N/A	8.000	CPS

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

Master: 19-Aug-2005 13:45 Before: 19-Aug-2005 14:13

Coincidence Count Rate Ratio	1.000	1.005	1.013	N/A	N/A	0.05000	
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Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration

Master: 19-Aug-2005 13:45

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.4	--	--	--	--	
Th Peak Res	7.000	7.421	--	--	--	--	%
Background Count Rate	142.5	22.21					CPS

Background Count Rate	142.5	22.21	--	--	--	--	CPS
Gain Ratio	1.000	1.007	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration  
Master: 19-Aug-2005 13:45

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.7	--	--	--	--	
Th Peak Res	7.000	7.313	--	--	--	--	%
Background Count Rate	142.5	20.37	--	--	--	--	CPS
Gain Ratio	1.000	1.007	--	--	--	--	

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting 1738 V  
Far Detector Plateau Setting 2083 V  
Array Detector Plateau Setting 1970 V

DUAL LATEROLOG - E / Equipment Identification

Primary Equipment:

Auxiliary Equipment:

Dual Laterolog Electrode	DLE - E
Dual Laterolog Sonde	DLS - F
Dual Laterolog Housing	DLH - CB
Dual Laterolog Cartridge	DLC - D
Laterolog Control Module	LCM - AA

DUAL LATEROLOG - E Wellsite Calibration

DLT ELECTRONICS CALIBRATION Laterolog Measurement

Phase	MEASURED LLD OHMM	Value	Phase	MEASURED LLS OHMM	Value
Before		31.91	Before		35.15
	29.00 (Minimum)			29.00 (Minimum)	
	31.62 (Nominal)			31.62 (Nominal)	
	40.00 (Maximum)			40.00 (Maximum)	

Before: 21-Aug-2005 15:10

DUAL LATEROLOG - E Wellsite Calibration

DLT Electronics Calibration Plus Measurement

Phase	Deep Current Plus UA	Value	Phase	Deep Voltage Plus MV	Value	Phase	Groningen Voltage Plus MV	Value
Before		341.5	Before		10.90	Before		11.38
	317.5 (Minimum)			9.830 (Minimum)			9.830 (Minimum)	
	342.5 (Nominal)			10.83 (Nominal)			10.83 (Nominal)	
	367.5 (Maximum)			11.83 (Maximum)			11.83 (Maximum)	
Phase	Shallow Current Plus UA	Value	Phase	Shallow Voltage Plus MV	Value			
Before		330.7	Before		11.63			
	317.5 (Minimum)			9.830 (Minimum)				
	342.5 (Nominal)			10.83 (Nominal)				
	367.5 (Maximum)			11.83 (Maximum)				

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DUAL LATEROLOG - E Wellsite Calibration

DLT Electronics Calibration Zero Measurement

Phase	Deep Current Zero UA	Value	Phase	Deep Voltage Zero MV	Value	Phase	Groningen Voltage Zero MV	Value
Before		-0.08586	Before		-0.007697	Before		-0.003849
	-1.000 (Minimum)			-0.1000 (Minimum)			-0.1000 (Minimum)	
	0 (Nominal)			0 (Nominal)			0 (Nominal)	
	1.000 (Maximum)			0.1000 (Maximum)			0.1000 (Maximum)	
Phase	Shallow Current Zero UA	Value	Phase	Shallow Voltage Zero MV	Value			
Before		-0.08586	Before		0.007697			
	-1.000 (Minimum)			-0.1000 (Minimum)				
	0 (Nominal)			0 (Nominal)				
	1.000 (Maximum)			0.1000 (Maximum)				

Before: 21-Aug-2005 15:09

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:

Hostile Litho Density Sonde	HLDS - D	35
Hostile Litho Density High Voltage	HLDV - D	35

## Auxiliary Equipment:

Hostile Litho Density Pad

Hostile Litho Density High Voltage Housi

HLDP - C

35

HEH - H

35

Hostile Litho-Density Sonde Wellsite Calibration								
Background Measurement								
Phase	SS Cs Resolution Bkg %	Value	Phase	LS Cs Resolution Bkg %	Value	Phase	LSW1 Background CPS	Value
Master		8.500	Master		8.161	Master		82.14
Before		8.513	Before		8.134	Before		82.13
	7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)			55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)	
Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value	Phase	LSW4 Background CPS	Value
Master		74.99	Master		169.1	Master		207.4
Before		73.91	Before		165.4	Before		206.5
	50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)			140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)	
Phase	LSW5 Background CPS	Value	Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value
Master		464.2	Master		79.48	Master		141.1
Before		464.6	Before		80.15	Before		139.4
	330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)			55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)	
Phase	SSW3 Background CPS	Value	Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value
Master		376.6	Master		198.6	Master		143.3
Before		373.7	Before		199.3	Before		143.2
	280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)			150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)	
Master: 8-Aug-2005 5:15			Before: 19-Aug-2005 14:12					

Hostile Litho-Density Sonde Master Calibration								
Detector Background Measurement								
Phase	LSW1 Background CPS	Value	Phase	LSW2 Background CPS	Value	Phase	LSW3 Background CPS	Value
Master		82.14	Master		74.99	Master		169.1
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			50.00 (Minimum) 100.0 (Nominal) 140.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 290.0 (Maximum)	
Phase	LSW4 Background CPS	Value	Phase	LSW5 Background CPS	Value	Phase	LS Cs Resolution Bkg %	Value
Master		207.4	Master		464.2	Master		8.161
	140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)			330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	
Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value	Phase	SSW3 Background CPS	Value
Master		79.48	Master		141.1	Master		376.6
	55.00 (Minimum) 100.0 (Nominal) 150.0 (Maximum)			100.0 (Minimum) 200.0 (Nominal) 260.0 (Maximum)			280.0 (Minimum) 500.0 (Nominal) 700.0 (Maximum)	
Phase	SSW4 Background CPS	Value	Phase	SSW5 Background CPS	Value	Phase	SS Cs Resolution Bkg %	Value
Master		198.6	Master		143.3	Master		8.500
	150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.00 (Maximum)	
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Hostile Litho-Density Sonde Master Calibration								
Detector Aluminum Measurement (bkgd-subtracted)								
Phase	LSW1 Aluminum CPS	Value	Phase	LSW2 Aluminum CPS	Value	Phase	LSW3 Aluminum CPS	Value
Master		547.9	Master		848.8	Master		1044
	420.0 (Minimum) 600.0 (Nominal) 700.0 (Maximum)			650.0 (Minimum) 900.0 (Nominal) 1050 (Maximum)			800.0 (Minimum) 1100 (Nominal) 1300 (Maximum)	
Phase	LSW4 Aluminum CPS	Value	Phase	LSW5 Aluminum CPS	Value	Phase	SSW1 Aluminum CPS	Value
Master		519.9	Master		481.0	Master		2413
	410.0 (Minimum) 580.0 (Nominal) 670.0 (Maximum)			410.0 (Minimum) 570.0 (Nominal) 660.0 (Maximum)			2000 (Minimum) 2800 (Nominal) 3200 (Maximum)	
Phase	SSW2 Aluminum CPS	Value	Phase	SSW3 Aluminum CPS	Value	Phase	SSW4 Aluminum CPS	Value
Master		6977	Master		10160	Master		4265
	5800 8000 9300			8300 11600 13500			3500 5000 5800	

(Minimum)	(Nominal)	(Maximum)	(Minimum)	(Nominal)	(Maximum)
Phase	SSW5 Aluminum CPS		Value		
Master			578.6		
	470.0 (Minimum)	660.0 (Nominal)	770.0 (Maximum)		

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**Hostile Litho-Density Sonde Master Calibration**  
**Detector Litholog Measurement (bkgd-subtracted)**

Phase	LSW1 Iron CPS		Value	Phase	LSW2 Iron CPS		Value	Phase	LSW3 Iron CPS		Value
Master			371.2	Master			670.4	Master			911.2
	290.0 (Minimum)	400.0 (Nominal)	470.0 (Maximum)		520.0 (Minimum)	730.0 (Nominal)	850.0 (Maximum)		720.0 (Minimum)	1000 (Nominal)	1160 (Maximum)
Phase	LSW4 Iron CPS		Value	Phase	LSW5 Iron CPS		Value	Phase	SSW1 Iron CPS		Value
Master			473.6	Master			442.6	Master			1806
	370.0 (Minimum)	520.0 (Nominal)	600.0 (Maximum)		340.0 (Minimum)	470.0 (Nominal)	550.0 (Maximum)		1500 (Minimum)	2100 (Nominal)	2400 (Maximum)
Phase	SSW2 Iron CPS		Value	Phase	SSW3 Iron CPS		Value	Phase	SSW4 Iron CPS		Value
Master			5840	Master			9264	Master			3901
	4900 (Minimum)	6800 (Nominal)	7900 (Maximum)		7800 (Minimum)	10800 (Nominal)	12600 (Maximum)		3300 (Minimum)	4600 (Nominal)	5400 (Maximum)
Phase	SSW5 Iron CPS		Value								
Master			507.2								
	420.0 (Minimum)	580.0 (Nominal)	680.0 (Maximum)								

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**Hostile Litho-Density Sonde Master Calibration**  
**Quality Ratios**

Phase	AL CALIBRATION RATIO 1		Value	Phase	AL CALIBRATION RATIO 2		Value	Phase	AL CALIBRATION RATIO 3		Value
Master			1.043	Master			2.098	Master			0.5474
	0.9000 (Minimum)	1.000 (Nominal)	1.100 (Maximum)		1.900 (Minimum)	2.100 (Nominal)	2.300 (Maximum)		0.4500 (Minimum)	0.5500 (Nominal)	0.6500 (Maximum)
Phase	AL CALIBRATION RATIO 4		Value	Phase	Pad-Wear SS Ratio		Value	Phase	Pad-Wear LS Ratio		Value
Master			0.4982	Master			0.9898	Master			0.9886
	0.4000 (Minimum)	0.5500 (Nominal)	0.6500 (Maximum)		0.9800 (Minimum)	0.9880 (Nominal)	0.9960 (Maximum)		0.9800 (Minimum)	0.9880 (Nominal)	0.9960 (Maximum)
Phase	Pad-Position SS Ratio		Value	Phase	Pad-Position LS Ratio		Value				
Master			1.002	Master			0.9860				
	0.9900 (Minimum)	0.9940 (Nominal)	1.015 (Maximum)		0.9850 (Minimum)	0.9940 (Nominal)	1.010 (Maximum)				

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Litho-Density Spectroscopy Cartridge - A / Equipment Identification		
Primary Equipment:		
LDSC Cartridge	LDSC - A	16
Auxiliary Equipment:		
LDSC Housing	LDSH - A	52

Accelerator-Porosity Tool / Equipment Identification		
Primary Equipment:		
Accelerator-Porosity Sonde	APS - C	202
APS Minitron	MNTR - F	5124
Auxiliary Equipment:		
Accelerator-Porosity Housing	APH - AC	104
APS Calibration Water Tank	SFT - 178	6250
APS Aluminum Calibrator Sleeve	SFT - 281	6250

**Accelerator-Porosity Tool Wellsite Calibration**  
**Detector Background**



Phase	Near Det Bkg Cntrate CPS	Value	Phase	Far Det Bkg Cntrate CPS	Value	Phase	Array-1 Det Bkg Cntrate CPS	Value
Master		25.36	Master		26.40	Master		27.15
Before		24.74	Before		25.53	Before		26.46
	1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)	
Phase	Array-2 Det Bkg Cntrate CPS	Value	Phase	Array Therm Det Bkg Cntrate CPS	Value			
Master		26.59	Master		26.22			
Before		25.96	Before		24.09			
	1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)				

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Accelerator-Porosity Tool Wellsite Calibration											
Calibration Ratios											
Phase	Near/Far Calibration Ratio		Value	Phase	Near/Array Calibration Ratio		Value	Phase	Near/Array Cal Ratio Up/Down		Value
Master			0.9630	Master			0.9878	Master			1.011
	0.8000 (Minimum)	0.9250 (Nominal)	1.050 (Maximum)		0.9000 (Minimum)	1.030 (Nominal)	1.170 (Maximum)		0.9700 (Minimum)	1.000 (Nominal)	1.030 (Maximum)

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Accelerator-Porosity Tool Wellsite Calibration											
Tank Check											
Phase	Array-1 Standoff Porosity PU		Value	Phase	Array-2 Standoff Porosity PU		Value	Phase	Average Slowing Down Time US		Value
Master			12.31	Master			11.98	Master			5.772
	9.900 (Minimum)	11.75 (Nominal)	13.60 (Maximum)		9.900 (Minimum)	11.75 (Nominal)	13.60 (Maximum)		5.500 (Minimum)	6.000 (Nominal)	6.250 (Maximum)
Phase	Array-1 SDT Ratio Up/Down		Value	Phase	Array-2 SDT Ratio Up/Down		Value	Phase	Sigma Formation CU		Value
Master			1.001	Master			0.9963	Master			27.56
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		20.00 (Minimum)	27.50 (Nominal)	35.00 (Maximum)

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Accelerator-Porosity Tool Master Calibration											
Detector Calibration											
Phase	Near/Far Calibration Ratio		Value	Phase	Near/Array Calibration Ratio		Value	Phase	Near/Array Cal Ratio Up/Down		Value
Master			0.9630	Master			0.9878	Master			1.011
	0.8000 (Minimum)	0.9250 (Nominal)	1.050 (Maximum)		0.9000 (Minimum)	1.030 (Nominal)	1.170 (Maximum)		0.9700 (Minimum)	1.000 (Nominal)	1.030 (Maximum)

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Accelerator-Porosity Tool Master Calibration											
Tank Check											
Phase	Array-1 Standoff Porosity PU		Value	Phase	Array-2 Standoff Porosity PU		Value	Phase	Average Slowing Down Time US		Value
Master			12.31	Master			11.98	Master			5.772
	9.900 (Minimum)	11.75 (Nominal)	13.60 (Maximum)		9.900 (Minimum)	11.75 (Nominal)	13.60 (Maximum)		5.500 (Minimum)	6.000 (Nominal)	6.250 (Maximum)
Phase	Array-1 SDT Ratio Up/Down		Value	Phase	Array-2 SDT Ratio Up/Down		Value	Phase	Sigma Formation CU		Value
Master			1.001	Master			0.9963	Master			27.56
	0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		0.9500 (Minimum)	1.000 (Nominal)	1.050 (Maximum)		20.00 (Minimum)	27.50 (Nominal)	35.00 (Maximum)

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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






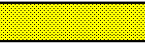

Master		22.21	Master		1.007
	20.00 (Minimum)	142.5 (Nominal)		0.9400 (Minimum)	1.000 (Nominal)
		265.0 (Maximum)			1.060 (Maximum)

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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		209.7	Master		7.313
	38.00 (Minimum)			201.0 (Minimum)			5.000 (Minimum)	
		42.00 (Maximum)			218.3 (Maximum)			9.000 (Maximum)

Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value
Master		20.37	Master		1.007
	20.00 (Minimum)			0.9400 (Minimum)	
		142.5 (Nominal)			1.000 (Nominal)
		265.0 (Maximum)			1.060 (Maximum)

Master: 19-Aug-2005 13:45

Company: Lamont Doherty

Well: Expedition 309 Site U1256D

Field: Superfast Spreading Crust

Rig: Joides Resolution

Ocean: Pacific Ocean

**Schlumberger**

Hostile Natural Gamma Ray