

Company: Lamont Doherty

Well: Expedition 309 Site U1256D

Field: Superfast Spreading Crust

Rig: Joides Resolution Ocean: Pacific Ocean

Hostile Natural Gamma Ray Tool

Rig: Joides Resolution		Field: Superfast Spreading Crust		Location: Expedition 309 Site U1256D		Company: Lamont Doherty	
LOCATION				Elev.: K.B. 11.3 m		G.L. -3645 m	
Permanent Datum: _____		Mean Sea Level _____		Elev.: 0 m _____		D.F. 11 m	
Log Measured From: _____		Rig Floor _____		11.0 m above Perm. Datum			
Drilling Measured From: _____		Rig Floor _____					
API Serial No. _____		Max. Hole Devi. _____		Longitude 91° 56.0612 W		Latitude 6° 44.1631 N	

Logging Date	17-Jul-2005		
Run Number	One		
Depth Driller	4397 m		
Schlumberger Depth	4372 m		
Bottom Log Interval	4372 m		
Top Log Interval	3910 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	@ @ @		
Maximum Recorded Temperatures			
Circulation Stopped	Time	Time	Time
Logger On Bottom	17-Jul-2005	9:00	
Unit Number	2082	Webster, TX	15:30
Recorded By	Javier Espinosa		
Witnessed By	Florence Einaudi, Akram Belghouli		

Logging Date	17-Jul-2005		
Run Number	One		
Depth Driller	4397 m		
Schlumberger Depth	4372 m		
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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	@ @ @		
Maximum Recorded Temperatures			
Circulation Stopped	Time	Time	Time
Logger On Bottom	17-Jul-2005	9:00	
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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	@ @ @		
Maximum Recorded Temperatures			
Circulation Stopped	Time	Time	Time
Logger On Bottom	17-Jul-2005	9:00	
Unit Number	2082	Webster, TX	15:30
Recorded By	Javier Espinosa		
Witnessed By	Florence Einaudi, Akram Belghouli		

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OTHER SERVICES1
 OS1: DLT, HLDS, APS
 OS2: MEST, DSI
 OS3: TAP
 OS4:
 OS5:

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

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
 Hole logged previously on Leg 206
 TD not reached due to hole conditions
 GR data affected by borehole neutron activation below 4263 m.

REMARKS: RUN NUMBER 2

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

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

LOGGED INTERVAL	START	STOP

LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1
SURFACE EQUIPMENT
 LCM-AA
 SFT-281 6250
 SFT-178 6250
 GSR-U 135
 WITM (DTS)-A

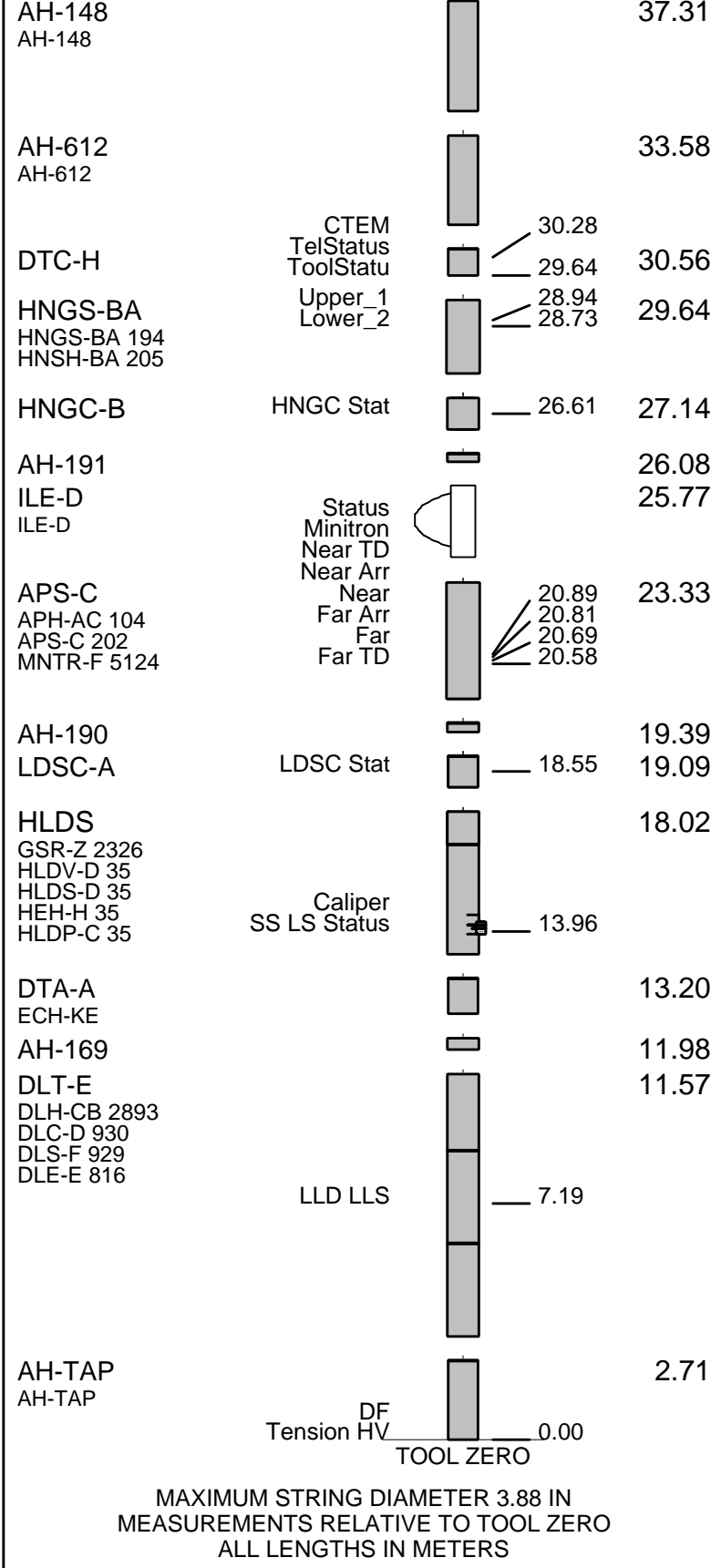
RUN 2

DOWNHOLE EQUIPMENT

BSP 62.59
 BRT-S

SP SPARC 41.53

LEH-QT 38.20



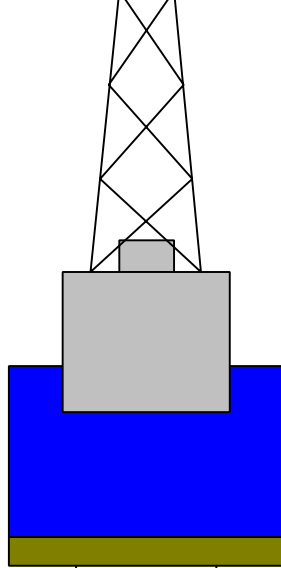
Production String	(in)	(ft)	Well Schematic	(ft)	(in)	Casing String
	OD	ID		MD	MD	

Kelly Bushing Elevation
Derrick Floor Elevation

11.3
11.0

Mean Sea Level

0.0



0.0 5.000

Casing String

3645.0 9.875

3915.0 5.000

Borehole Segment

Casing Shoe

Schlumberger

MAIN PASS

MAXIS Field Log

Company: Lamont Doherty

Well: Expedition 309 Site U1256D

Input DLIS Files

DEFAULT	DLL_LDL_APS_NGS_028LUP	FN:31	PRODUCER	17-Jul-2005 17:00	4370.8 M	3888.8 M
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Output DLIS Files

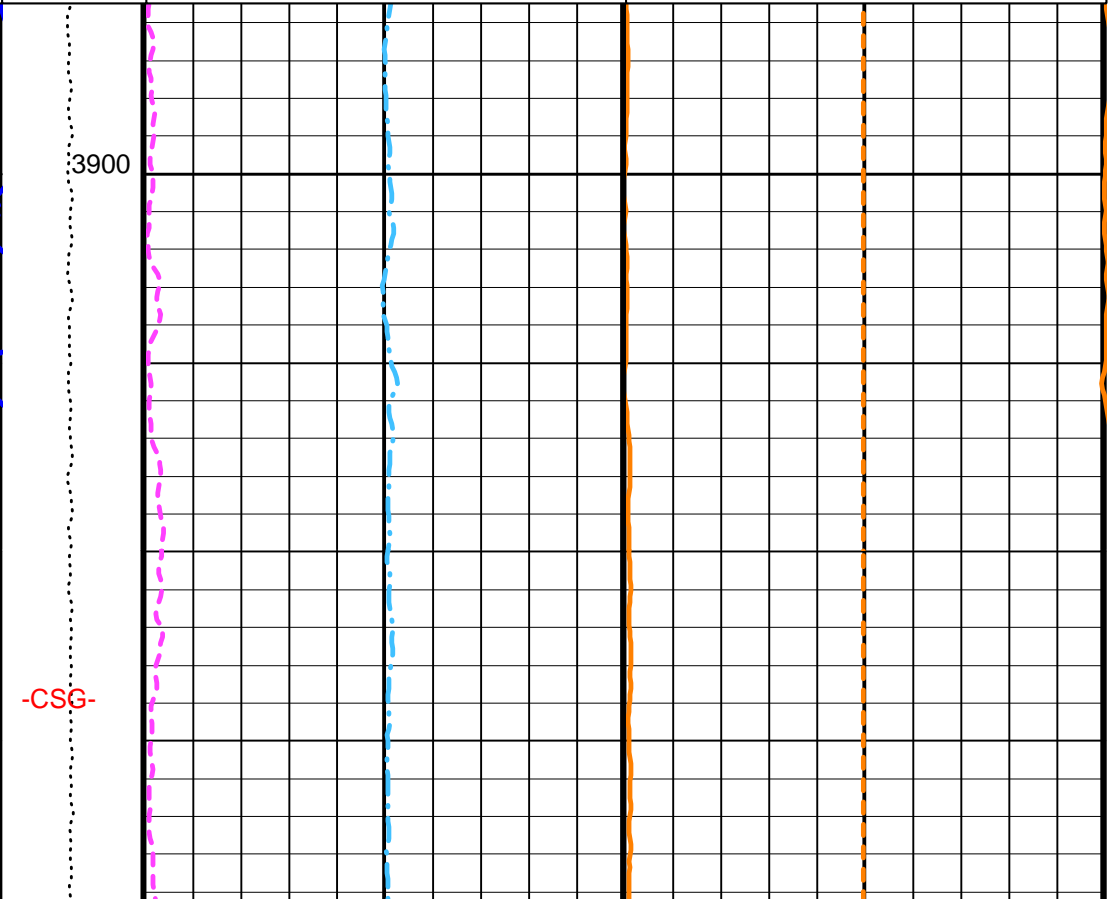
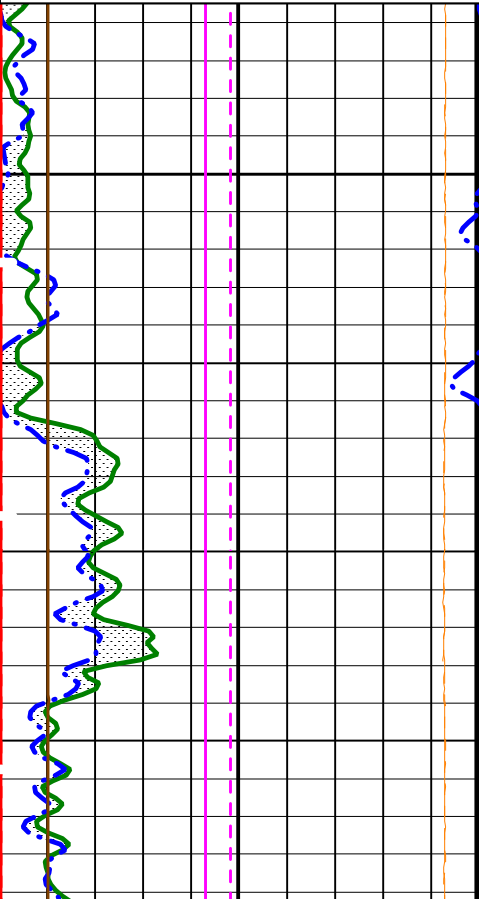
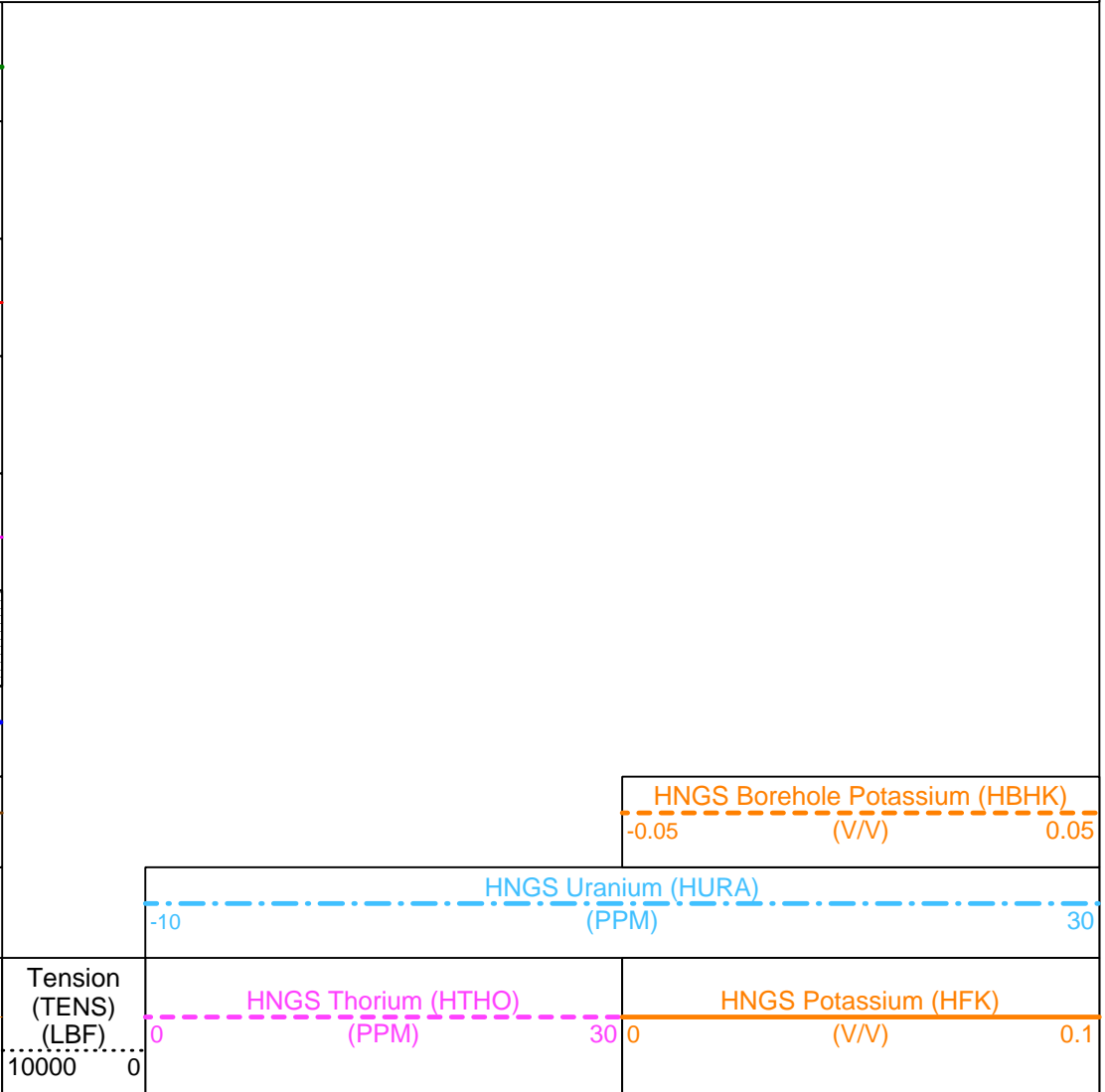
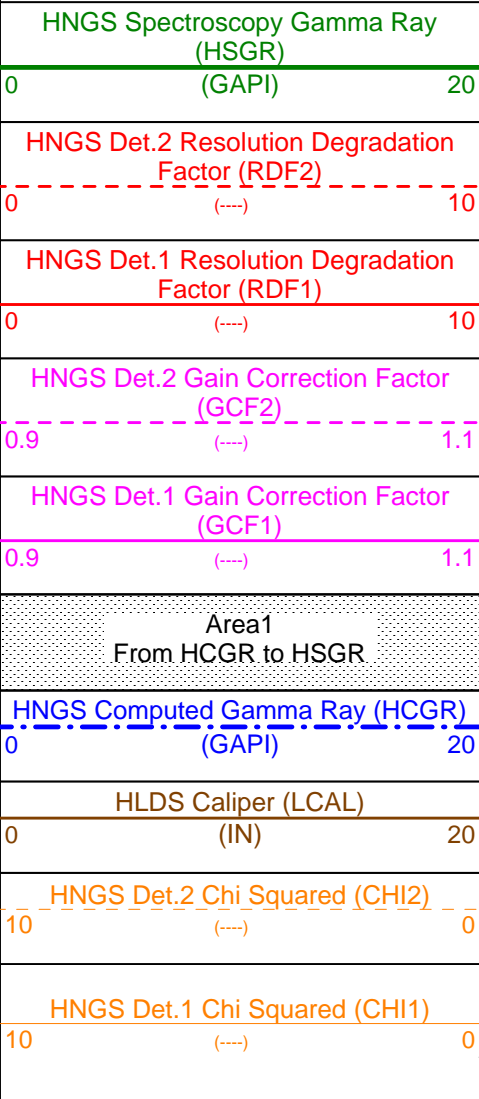
DEFAULT	DLL_LDL_APS_NGS_038PUP	FN:44	PRODUCER	18-Jul-2005 04:44	4370.8 M	3895.5 M
REDUCED	DLL_LDL_APS_NGS_038PUP	FN:45	PRODUCER	18-Jul-2005 04:44	4370.8 M	3895.5 M

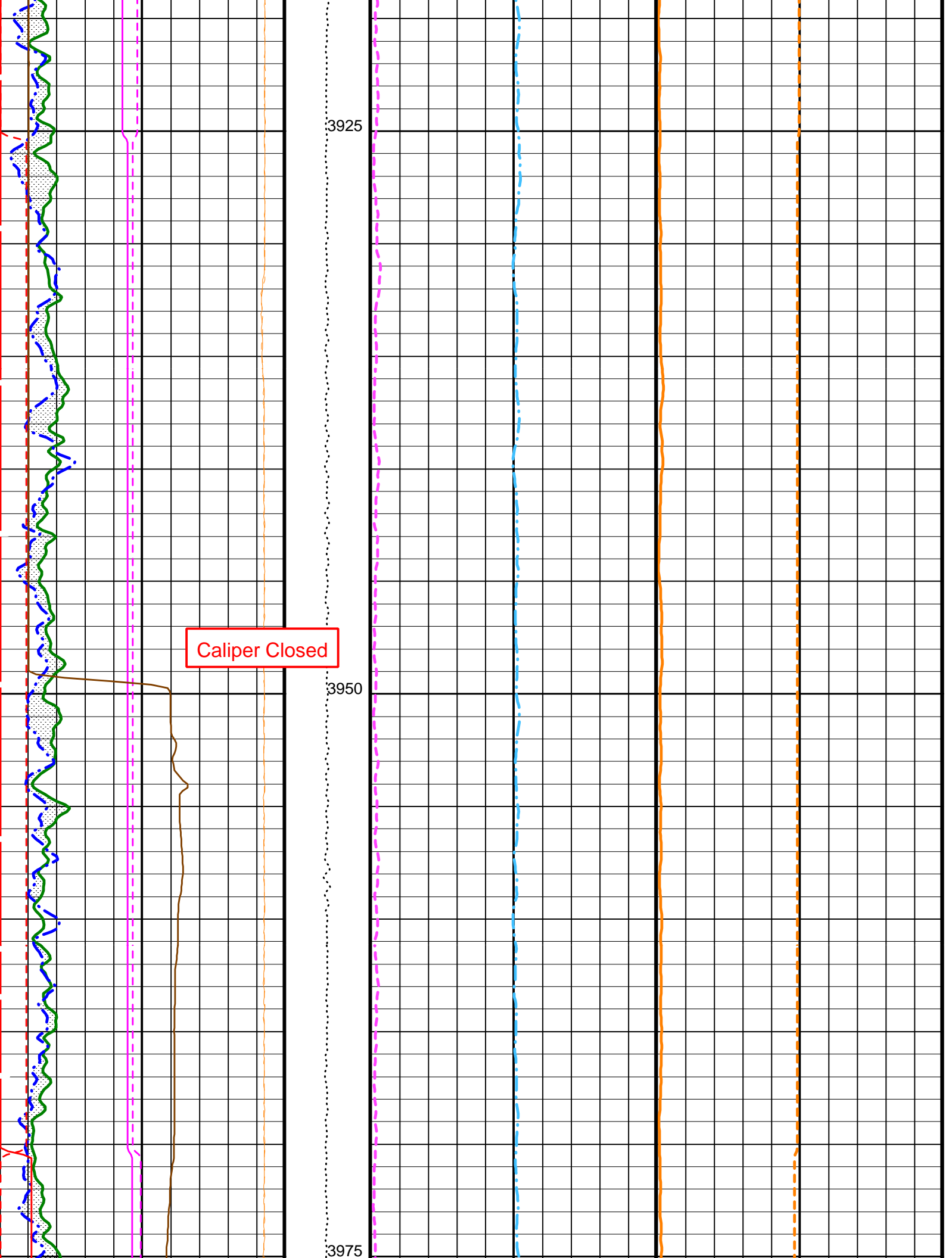
OP System Version: 12C0-301
MCM

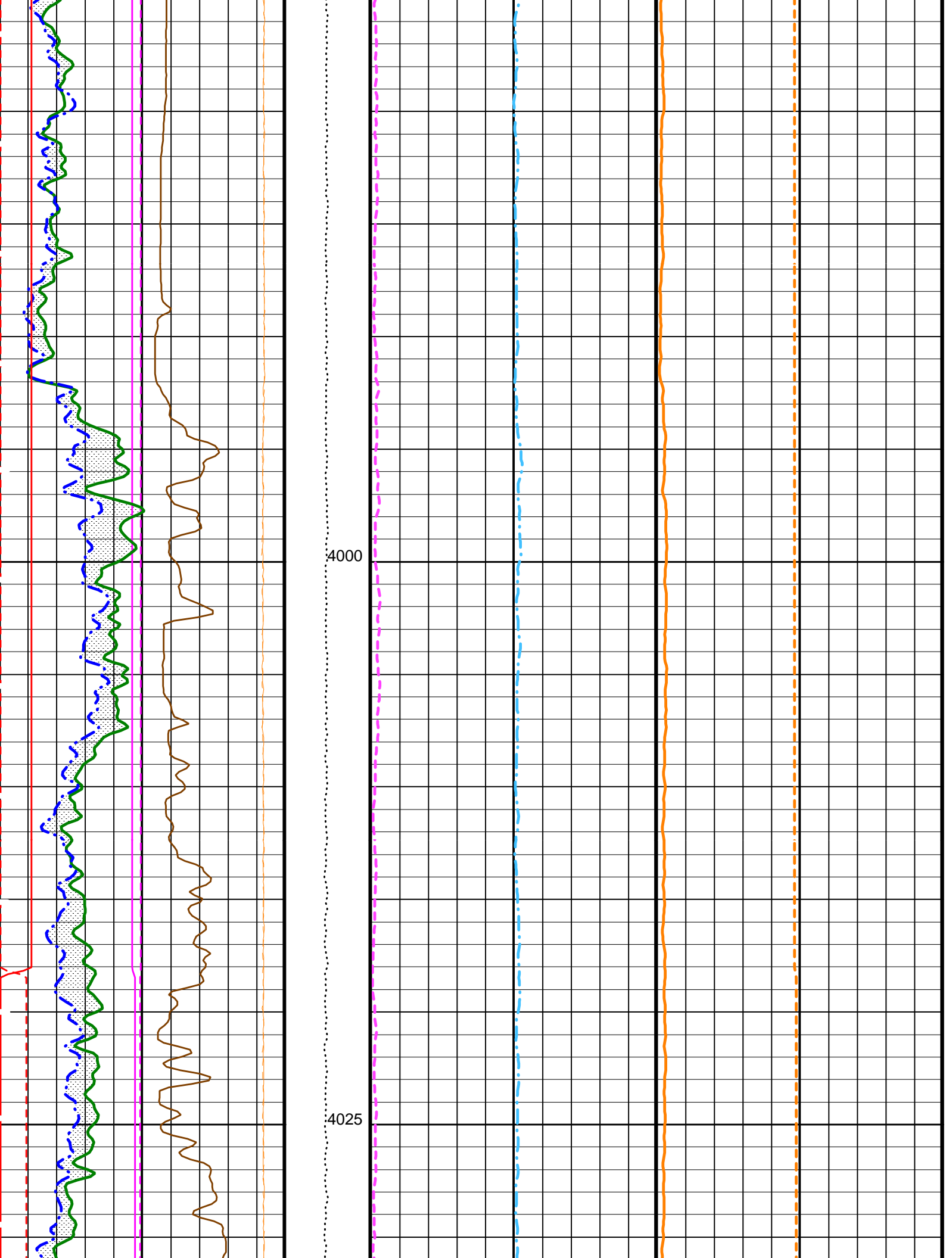
DLT-E	12C0-301	DTA-A	12C0-301
HLDS	SPC-2602-NUCL_b	LDSC-A	SPC-2602-NUCL_b
APS-C	SPC-2602-NUCL_b	HNGC-B	SPC-2602-NUCL_b
HNGS-BA	SPC-2602-NUCL_b	DTC-H	12C0-301

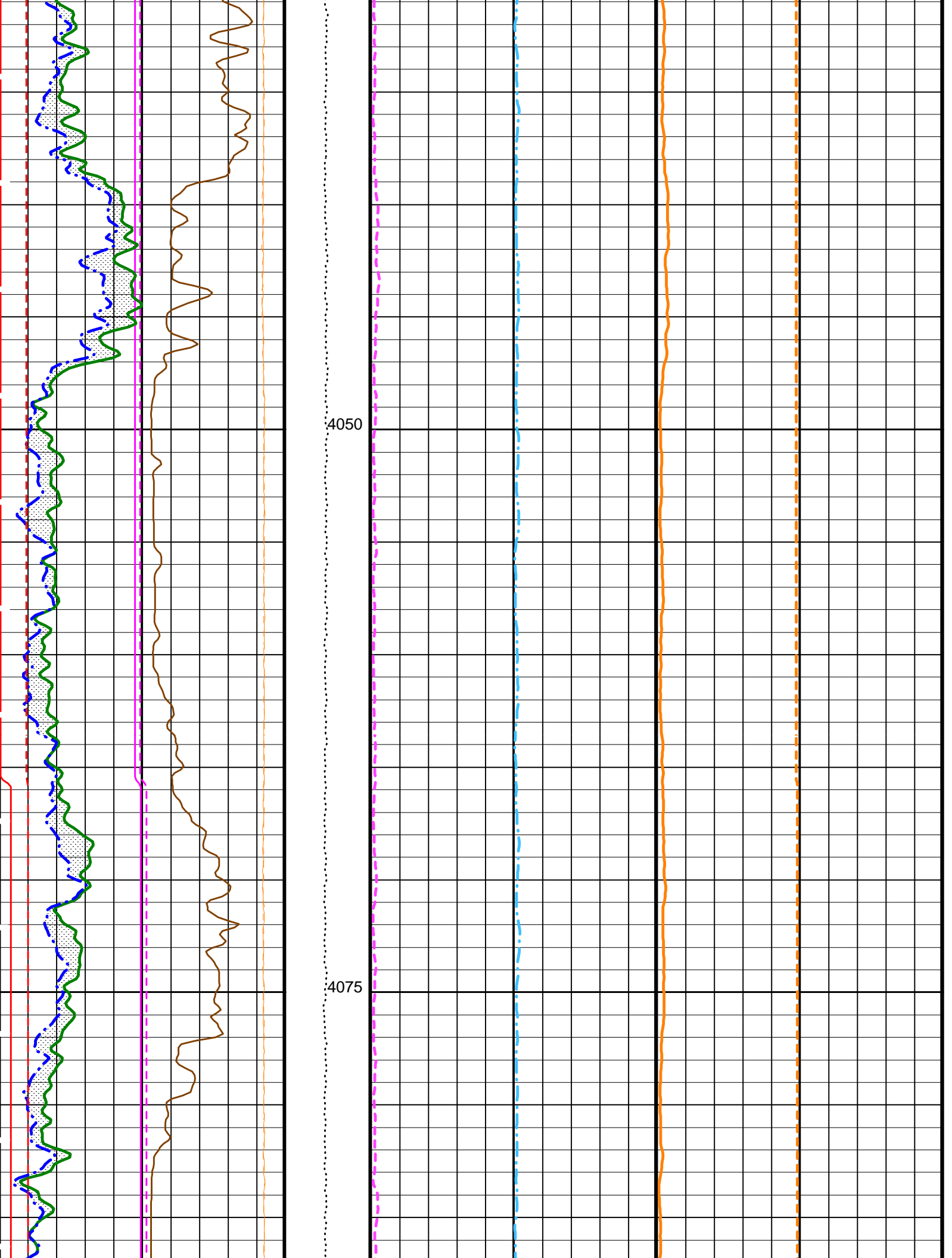
PIP SUMMARY

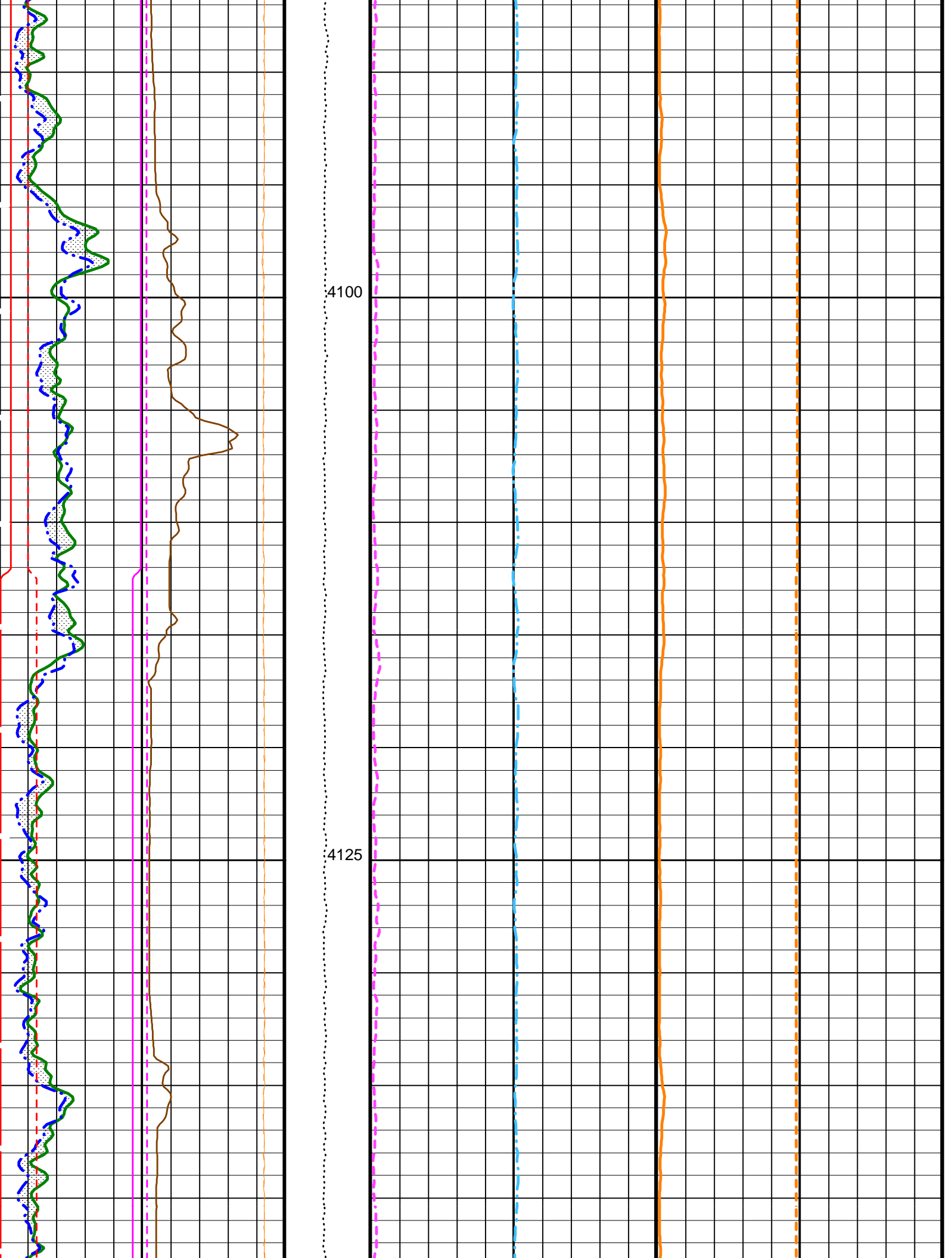
Time Mark Every 60 S

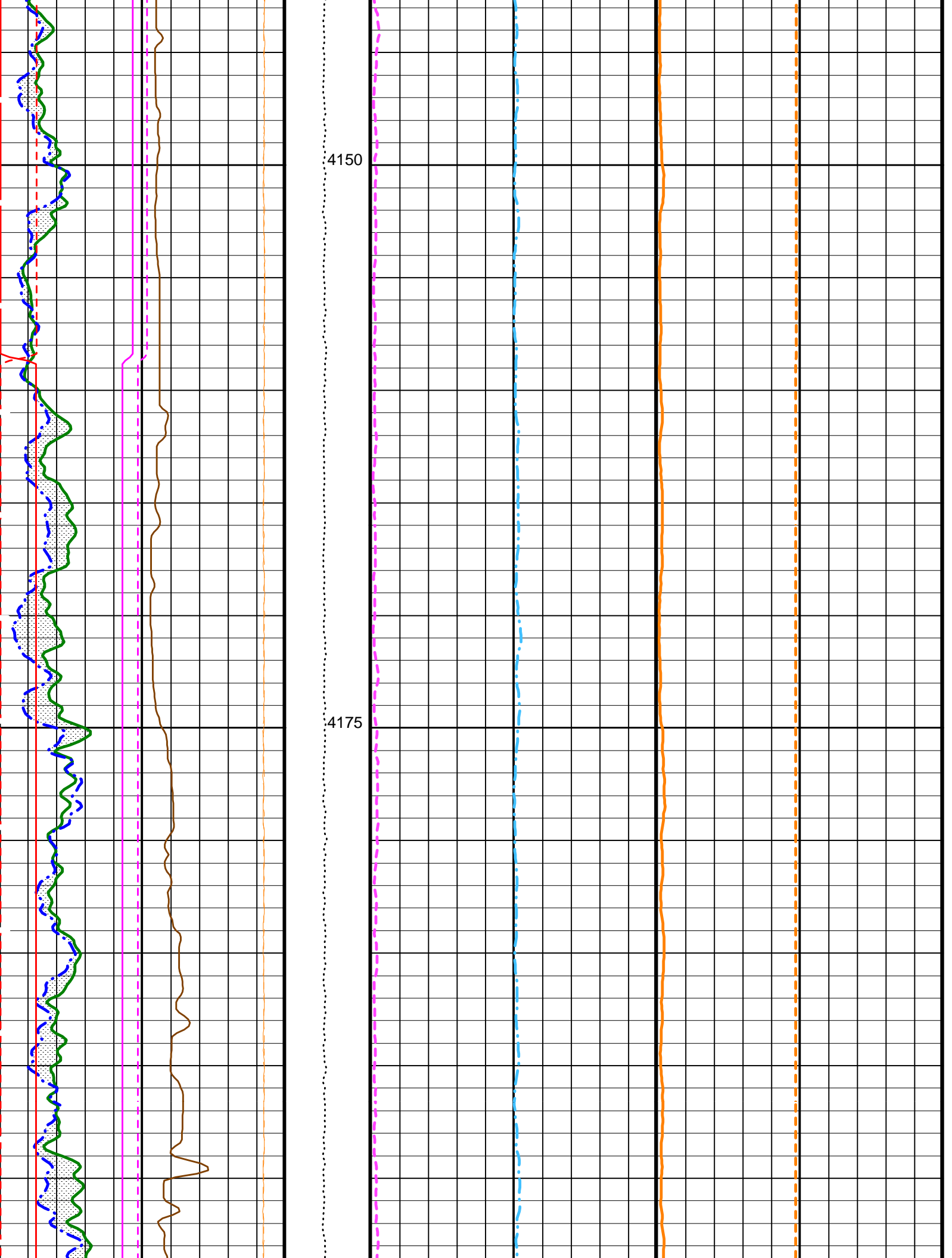


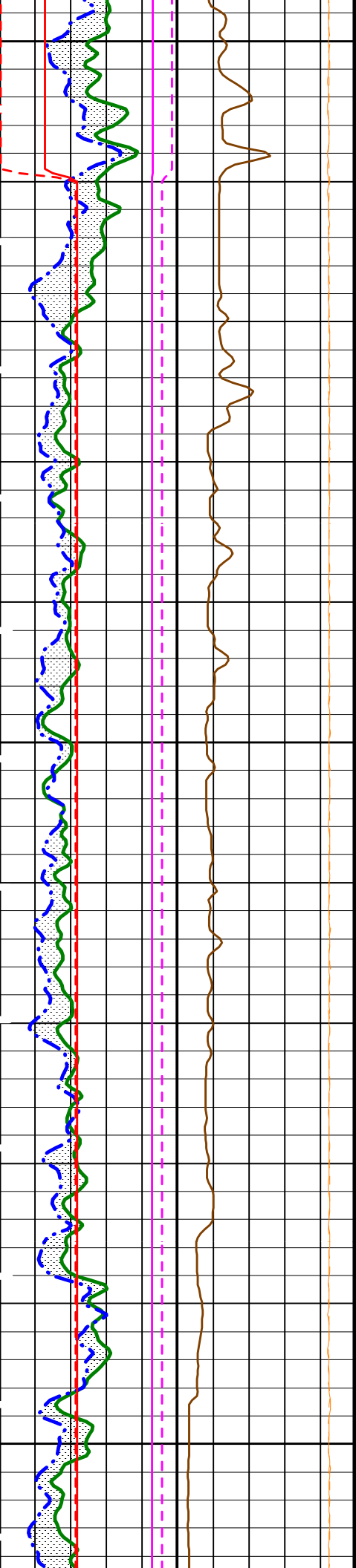








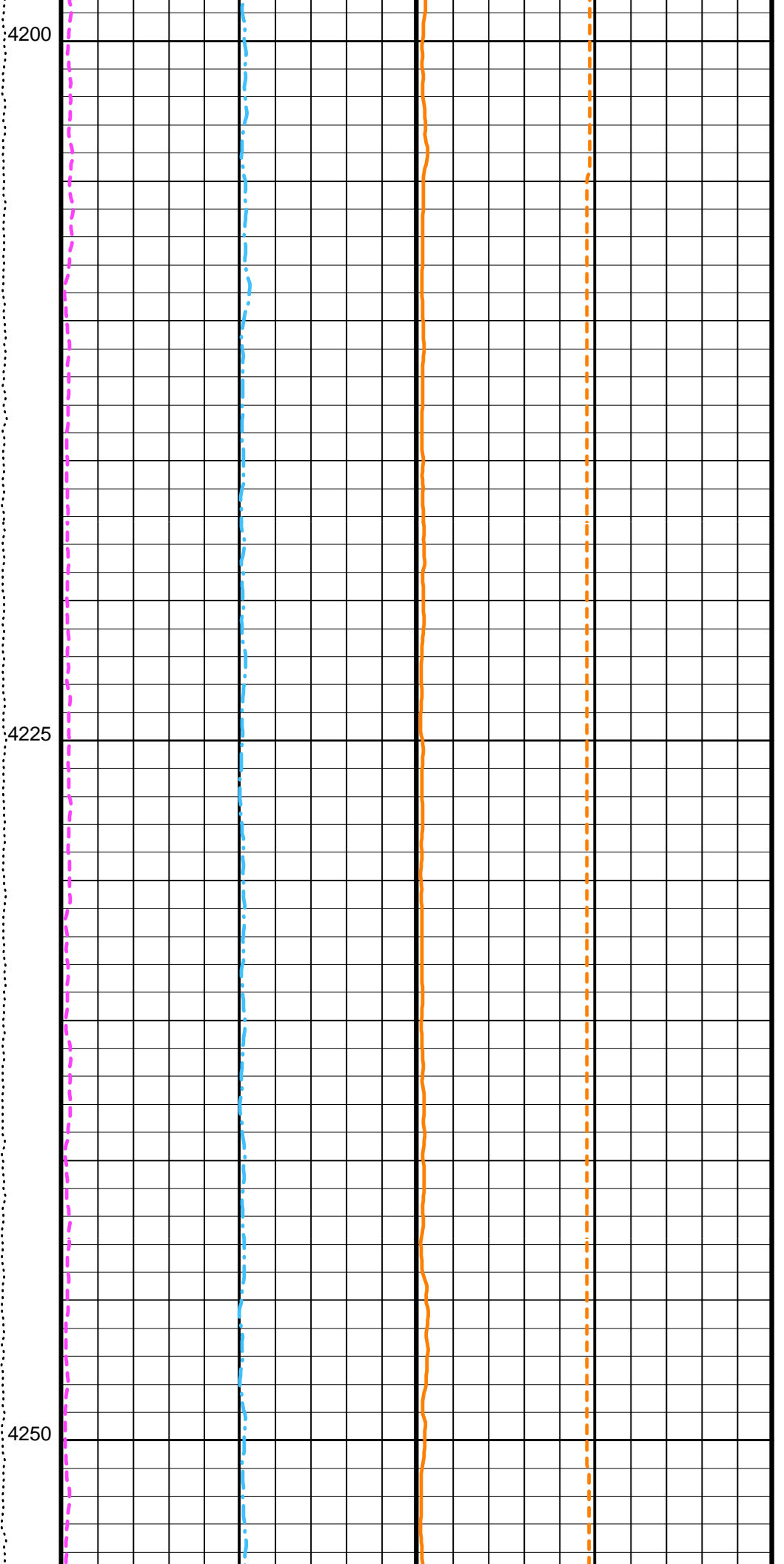


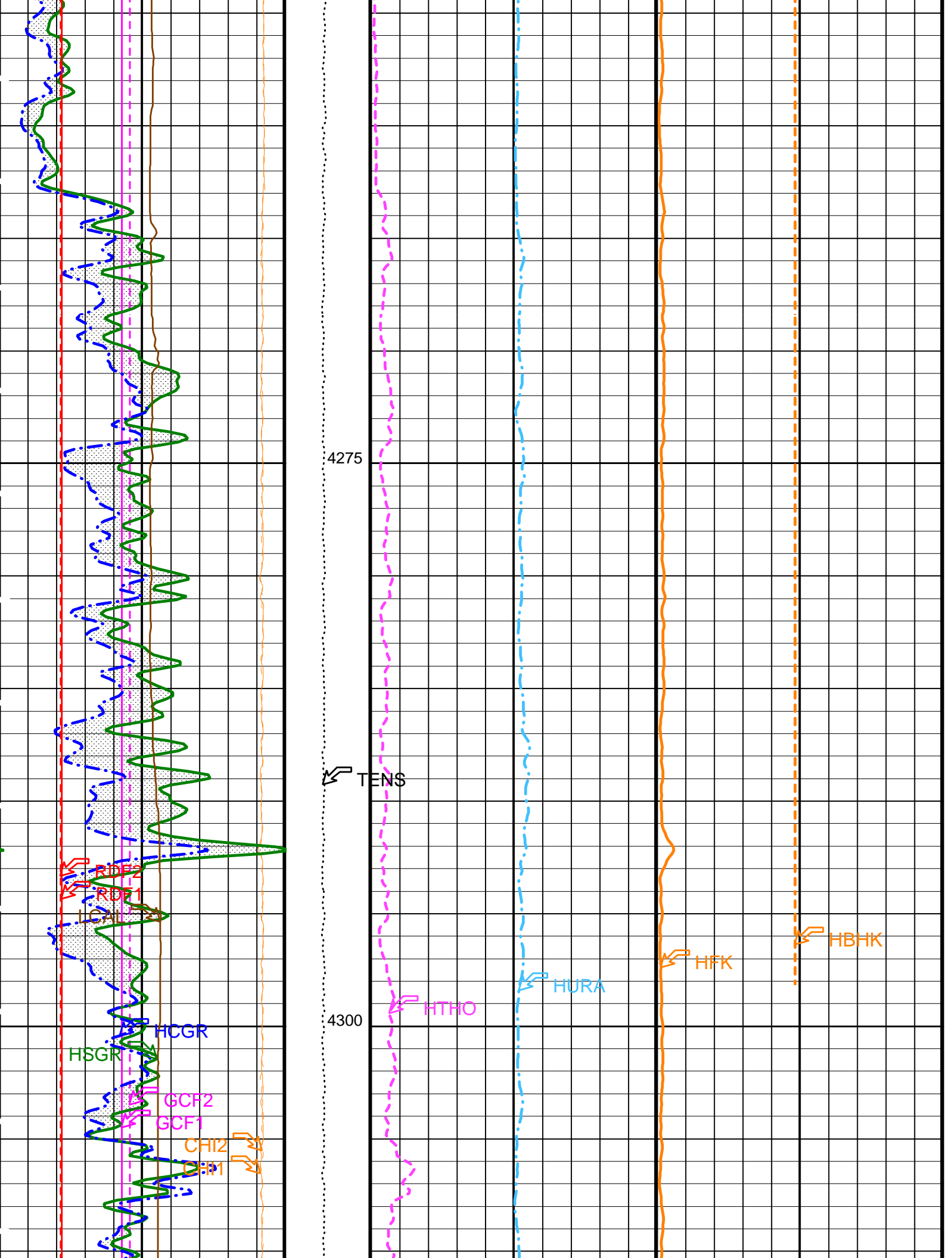


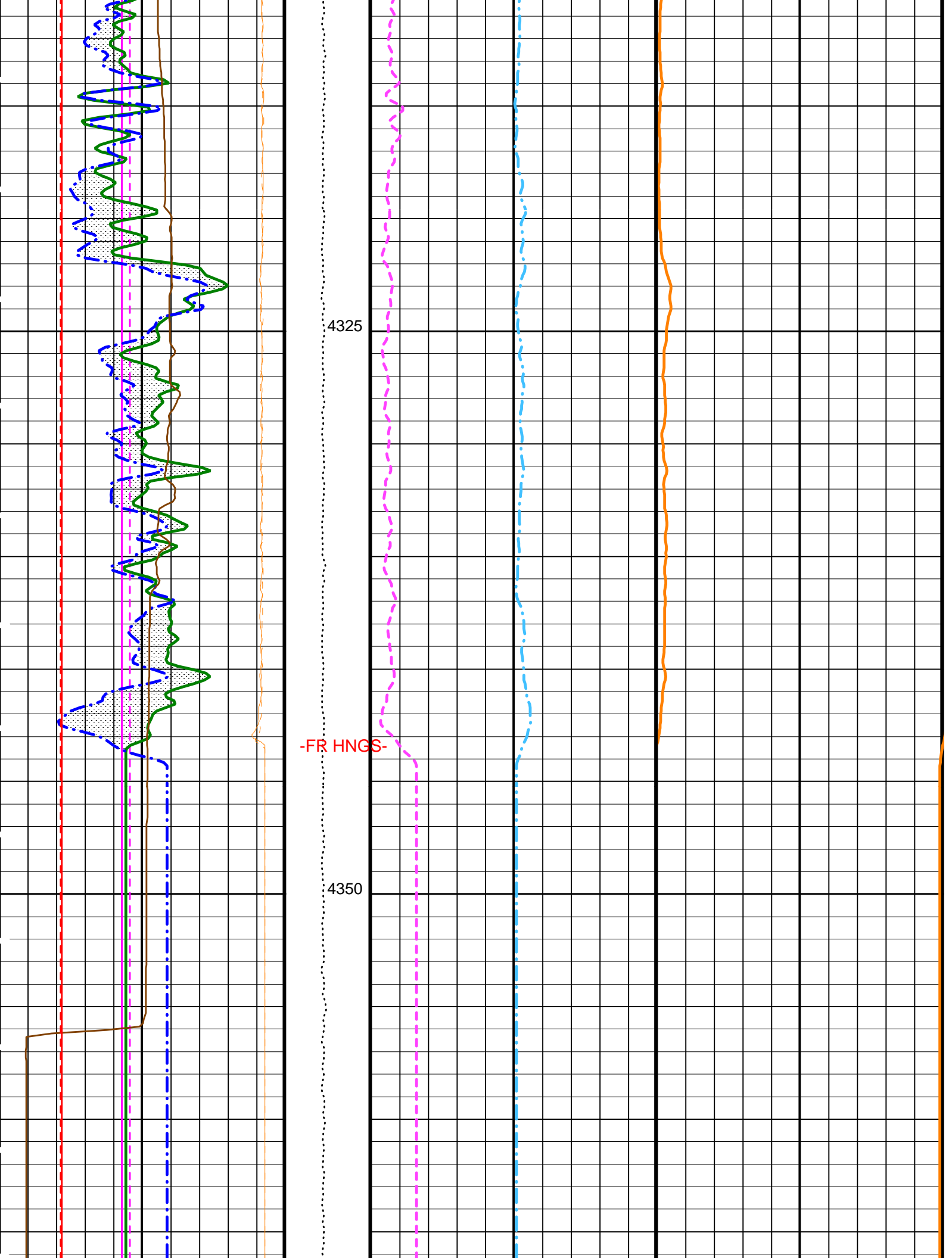
4200

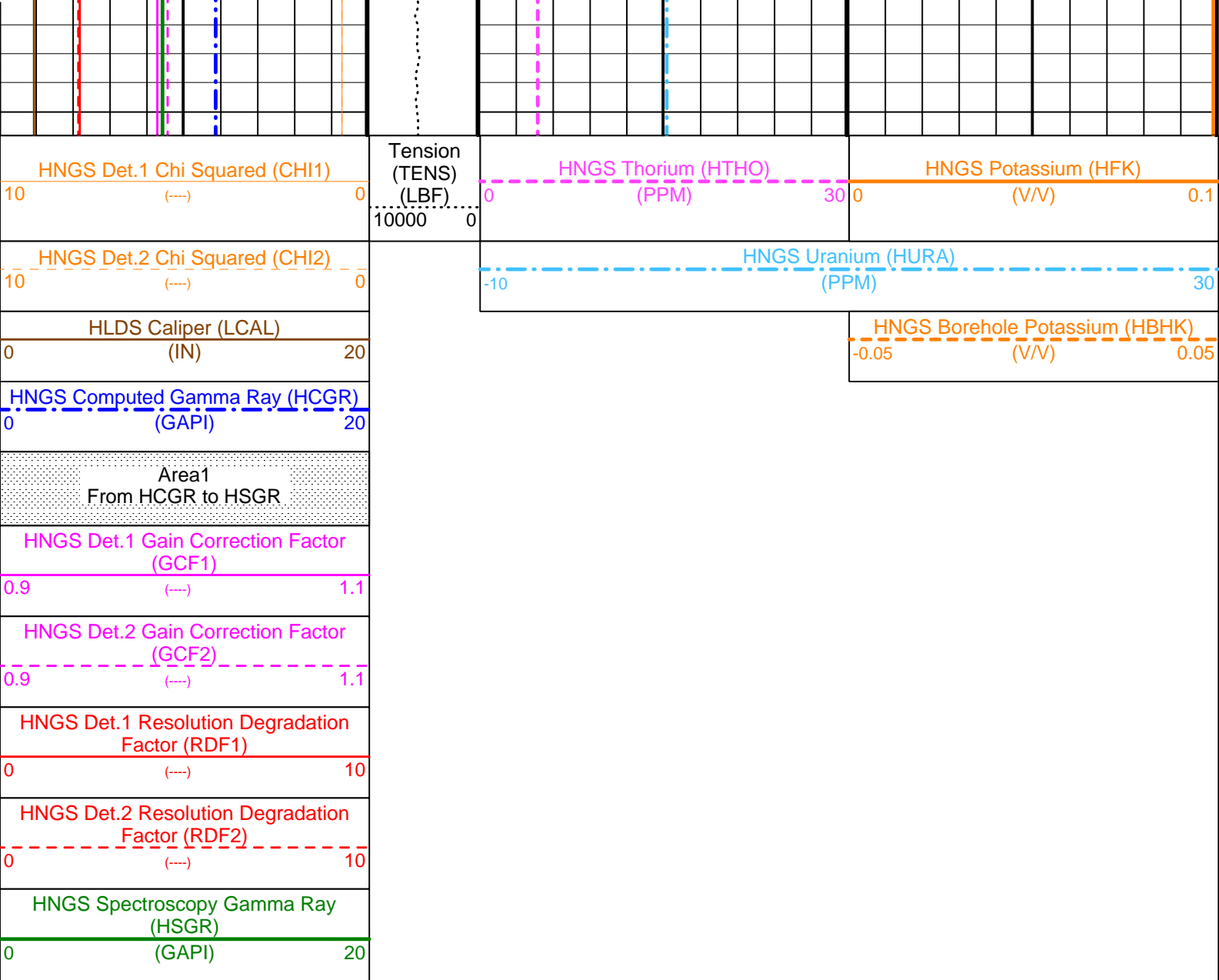
4225

4250









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	-0.00186933
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	1.07217	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.08486	
System and Miscellaneous			
BS	Bit Size	9.875	IN
DFD	Drilling Fluid Density	1.07	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	

Format: HNGSYields Vertical Scale: 1:200 Graphics File Created: 18-Jul-2005 04:44

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		

Input DLIS Files

DEFAULT	DLL_LDL_APS_NGS_028LUP	FN:31	PRODUCER	17-Jul-2005 17:00	4370.8 M	3888.8 M
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Output DLIS Files

DEFAULT	DLL_LDL_APS_NGS_038PUP	FN:44	PRODUCER	18-Jul-2005 04:44		
REDUCED	DLL_LDL_APS_NGS_038PUP	FN:45	PRODUCER	18-Jul-2005 04:44		



CALIBRATIONS

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
DUAL LATEROLOG - E Wellsite Calibration - DLT ELECTRONICS CALIBRATION Laterolog Measurement							
Before: 17-Jul-2005 15:54							
MEASURED LLD	31.62	N/A	31.96	N/A	N/A	0.9000	OHMM
MEASURED LLS	31.62	N/A	31.22	N/A	N/A	0.9000	OHMM
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 14-Jul-2005 16:30 Before: 15-Jul-2005 15:26							
SS Cs Resolution Bkg	9.000	8.545	8.525	N/A	N/A	1.800	%
LS Cs Resolution Bkg	9.000	8.108	8.088	N/A	N/A	1.800	%
LSW1 Background	100.0	81.91	81.53	N/A	N/A	3.000	CPS
LSW2 Background	100.0	74.35	75.28	N/A	N/A	3.000	CPS
LSW3 Background	200.0	168.0	166.5	N/A	N/A	6.000	CPS
LSW4 Background	250.0	209.1	207.2	N/A	N/A	7.500	CPS
LSW5 Background	600.0	468.5	465.8	N/A	N/A	18.00	CPS
SSW1 Background	100.0	80.24	79.56	N/A	N/A	3.000	CPS
SSW2 Background	200.0	140.6	140.8	N/A	N/A	6.000	CPS
SSW3 Background	500.0	376.5	375.3	N/A	N/A	15.00	CPS
SSW4 Background	270.0	199.0	200.1	N/A	N/A	8.100	CPS
SSW5 Background	200.0	143.1	143.5	N/A	N/A	6.000	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement							
Master: 14-Jul-2005 17:24							
LSW1 Aluminum	600.0	529.9	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	821.8	N/A	N/A	N/A	N/A	CPS
LSW3 Aluminum	1100	1021	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	521.6	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	474.8	N/A	N/A	N/A	N/A	CPS

SSW1 Aluminum	2800	2414	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	7009	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	10170	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	4256	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	572.5	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement							
Master: 14-Jul-2005 17:09							
LSW1 Iron	400.0	367.6	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	673.6	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	907.3	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	469.0	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	437.7	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1793	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5811	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	9228	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3862	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	500.6	N/A	N/A	N/A	N/A	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration							
Before: 15-Jul-2005 15:49							
HLDS Caliper Small Ring	8.000	N/A	10.83	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	12.00	N/A	14.98	N/A	N/A	N/A	IN
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 8-Jun-2005 23:32 Before: 15-Jul-2005 15:26							
Near Det Bkg Cntrate	30.00	24.44	24.38	N/A	N/A	N/A	CPS
Far Det Bkg Cntrate	30.00	26.92	24.79	N/A	N/A	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.26	27.84	N/A	N/A	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	26.08	25.12	N/A	N/A	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	25.92	24.91	N/A	N/A	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: 8-Jun-2005 23:32							
Near/Far Calibration Ratio	0.9250	0.9547	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	0.9879	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.005	N/A	N/A	N/A	N/A	
Accelerator-Porosity Tool Wellsite Calibration - Tank Check							
Master: 8-Jun-2005 23:32							
Array-1 Standoff Porosity	11.75	11.62	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.51	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.843	N/A	N/A	N/A	N/A	US
Array-1 SDT Ratio Up/Down	1.000	0.9816	N/A	N/A	N/A	N/A	
Array-2 SDT Ratio Up/Down	1.000	0.9849	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.30	N/A	N/A	N/A	N/A	CU
Accelerator-Porosity Tool Wellsite Calibration - CCR7 signal boxes							
Master: 8-Jun-2005 23:32							
Near Detector Plateau Setting	1650	1741	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2082	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1973	N/A	N/A	N/A	N/A	V
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check							
Master: 15-Jul-2005 15:20 Before: 15-Jul-2005 15:27							
Na 511 Peak Loc	40.00	39.61	39.61	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.17	16.30	N/A	N/A	2.000	%
High Voltage	1150	1120	1120	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.0	142.4	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.765	8.614	N/A	N/A	2.000	%
Temperature	15.50	31.77	31.75	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	48.44	48.65	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check							
Master: 15-Jul-2005 15:20 Before: 15-Jul-2005 15:27							
Na 511 Peak Loc	40.00	39.61	39.66	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.11	15.33	N/A	N/A	2.000	%
High Voltage	1150	1197	1197	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	142.0	142.0	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	8.084	8.058	N/A	N/A	2.000	%
Temperature	15.50	31.31	31.35	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	48.30	47.98	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration - Ratio Of Detector 1 To Detector 2							
Master: 15-Jul-2005 15:20 Before: 15-Jul-2005 15:27							
Coincidence Count Rate Ratio	1.000	1.004	1.015	N/A	N/A	0.05000	
Hostile Natural Gamma Ray Sonde Master Calibration - Detector 1 Calibration							
Master: 15-Jul-2005 15:15							
Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	208.7	--	--	--	--	
Th Peak Res	7.000	7.197	--	--	--	--	%

Th Peak Res	7.000	7.197	--	--	--	--	%
Background Count Rate	142.5	23.44	--	--	--	--	CPS
Gain Ratio	1.000	1.002	--	--	--	--	

Hostile Natural Gamma Ray Sonde Master Calibration - Detector 2 Calibration

Master: 15-Jul-2005 15:15

Na 511 Peak Set Point	40.00	41.00	--	--	--	--	
Th Peak Loc	209.6	209.9	--	--	--	--	
Th Peak Res	7.000	7.171	--	--	--	--	%
Background Count Rate	142.5	23.11	--	--	--	--	CPS
Gain Ratio	1.000	1.008	--	--	--	--	

Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting 1741 V
 Far Detector Plateau Setting 2082 V
 Array Detector Plateau Setting 1973 V

DUAL LATEROLOG - E / Equipment Identification

Primary Equipment:

Auxiliary Equipment:

Dual Laterolog Electrode	DLE - E	816
Dual Laterolog Sonde	DLS - F	929
Dual Laterolog Housing	DLH - CB	2893
Dual Laterolog Cartridge	DLC - D	930
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		31.96	Before		31.22
	29.00 (Minimum)			29.00 (Minimum)	
	31.62 (Nominal)			31.62 (Nominal)	
	40.00 (Maximum)			40.00 (Maximum)	

Before: 17-Jul-2005 15:54

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		341.3	Before		10.91	Before		11.39
	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		344.1	Before		10.74			
	317.5 (Minimum)			9.830 (Minimum)				
	342.5 (Nominal)			10.83 (Nominal)				
	367.5 (Maximum)			11.83 (Maximum)				

Before: 17-Jul-2005 15:54

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		-0.07221	Before		-0.007748	Before		-0.003415
	-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		-0.08614	Before		-0.003925			
	-1.000 (Minimum)			-0.1000 (Minimum)				
	0 (Nominal)			0 (Nominal)				
	1.000 (Maximum)			0.1000 (Maximum)				

Before: 17-Jul-2005 15:53

Hostile Litho-Density Sonde / Equipment Identification

Primary Equipment:

Hostile Litho Density Sonde	HLDS - D	35
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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		8.545	Master		8.108	Master		81.91	
Before		8.525	Before		8.088	Before		81.53	
	7.000 (Minimum) 9.000 (Nominal) 11.000 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.000 (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		74.35	Master		168.0	Master		209.1	
Before		75.28	Before		166.5	Before		207.2	
	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		468.5	Master		80.24	Master		140.6	
Before		465.8	Before		79.56	Before		140.8	
	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		376.5	Master		199.0	Master		143.1	
Before		375.3	Before		200.1	Before		143.5	
	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: 14-Jul-2005 16:30					Before: 15-Jul-2005 15:26				

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		81.91	Master		74.35	Master		168.0	
	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		209.1	Master		468.5	Master		8.108	
	140.0 (Minimum) 250.0 (Nominal) 360.0 (Maximum)			330.0 (Minimum) 600.0 (Nominal) 830.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.000 (Maximum)		
Phase	SSW1 Background CPS	Value	Phase	SSW2 Background CPS	Value	Phase	SSW3 Background CPS	Value	
Master		80.24	Master		140.6	Master		376.5	
	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		199.0	Master		143.1	Master		8.545	
	150.0 (Minimum) 270.0 (Nominal) 380.0 (Maximum)			110.0 (Minimum) 200.0 (Nominal) 270.0 (Maximum)			7.000 (Minimum) 9.000 (Nominal) 11.000 (Maximum)		
Master: 14-Jul-2005 16:30									

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		529.9	Master		821.8	Master		1021	
	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		521.6	Master		474.8	Master		2414	
	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		7009	Master		10170	Master		4256	

5800 (Minimum)	8000 (Nominal)	9300 (Maximum)	8300 (Minimum)	11600 (Nominal)	13500 (Maximum)	3500 (Minimum)	5000 (Nominal)	5800 (Maximum)
Phase	SSW5 Aluminum CPS		Value					
Master			572.5					
	470.0 (Minimum)	660.0 (Nominal)	770.0 (Maximum)					

Master: 14-Jul-2005 17:24

Hostile Litho-Density Sonde Master Calibration

Detector Litholog Measurement (bkqg-subtracted)

Phase	LSW1 Iron CPS		Value	Phase	LSW2 Iron CPS		Value	Phase	LSW3 Iron CPS		Value
Master			367.6	Master			673.6	Master			907.3
	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			469.0	Master			437.7	Master			1793
	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			5811	Master			9228	Master			3862
	4900 (Minimum)	6800 (Nominal)	7900 (Maximum)	7800 (Minimum)	10800 (Nominal)	12600 (Maximum)	3300 (Minimum)	4600 (Nominal)	5400 (Maximum)		
Phase	SSW5 Iron CPS		Value								
Master			500.6								
	420.0 (Minimum)	580.0 (Nominal)	680.0 (Maximum)								

Master: 14-Jul-2005 17:09

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			1.024	Master			2.107	Master			0.5319
	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			0.4999	Master			0.9900	Master			0.9898
	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			1.001	Master			1.000				
	0.9900 (Minimum)	0.9940 (Nominal)	1.015 (Maximum)	0.9850 (Minimum)	0.9940 (Nominal)	1.010 (Maximum)					

Master: 14-Jul-2005 17:03

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		24.44	Master		26.92	Master		28.26
Before		24.38	Before		24.79	Before		27.84
	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		26.08	Master		25.92			
Before		25.12	Before		24.91			
	1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)			1.000 (Minimum) 30.00 (Nominal) 50.00 (Maximum)				

Master: 8-Jun-2005 23:32 Before: 15-Jul-2005 15:26

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		0.9547	Master		0.9879	Master		1.005
	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)	

Master: 8-Jun-2005 23:32

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		11.62	Master		11.51	Master		5.843
	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		0.9816	Master		0.9849	Master		27.30
	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)	

Master: 8-Jun-2005 23:32

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		0.9547	Master		0.9879	Master		1.005
	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)	

Master: 8-Jun-2005 23:32

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		11.62	Master		11.51	Master		5.843
	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		0.9816	Master		0.9849	Master		27.30
	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)	

Master: 8-Jun-2005 23:32

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 135

Hostile Natural Gamma Ray Sonde Wellsite Calibration										
Detector 1 Check										
Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value		
Master		39.61	Master		16.17	Master		1120		
Before		39.61	Before		16.30	Before		1120		
	37.50 (Minimum)	40.00 (Nominal)	42.50 (Maximum)	12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value		
Master		142.0	Master		8.765	Master		31.77		
Before		142.4	Before		8.614	Before		31.75		
	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		48.44								
Before		48.65								
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)							
Master: 15-Jul-2005 15:20					Before: 15-Jul-2005 15:27					

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		39.61	Master		16.11	Master		1197		
Before		39.66	Before		15.33	Before		1197		
	37.50 (Minimum)	40.00 (Nominal)	42.50 (Maximum)	12.00 (Minimum)	15.50 (Nominal)	19.00 (Maximum)	900.0 (Minimum)	1150 (Nominal)	1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value		
Master		142.0	Master		8.084	Master		31.31		
Before		142.0	Before		8.058	Before		31.35		
	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		48.30								
Before		47.98								
	10.00 (Minimum)	45.00 (Nominal)	100.0 (Maximum)							
Master: 15-Jul-2005 15:20					Before: 15-Jul-2005 15:27					

Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		1.004
Before		1.015
	0.9500 (Minimum)	1.000 (Nominal)
		1.050 (Maximum)
Master: 15-Jul-2005 15:20		
Before: 15-Jul-2005 15:27		

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		208.7	Master		7.197	
	38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)	201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)	5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)

Phase	Background Count Rate CPS	Value	Phase	Gain Ratio	Value
Master		23.44	Master		1.002
	20.00 (Minimum) 142.5 (Nominal) 265.0 (Maximum)			0.9400 (Minimum) 1.000 (Nominal) 1.060 (Maximum)	

Master: 15-Jul-2005 15:15

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			209.9	Master			7.171
	38.00 (Minimum)	40.00 (Nominal)	42.00 (Maximum)		201.0 (Minimum)	209.6 (Nominal)	218.3 (Maximum)		5.000 (Minimum)	7.000 (Nominal)	9.000 (Maximum)
Phase	Background Count Rate CPS		Value	Phase	Gain Ratio		Value				
Master			23.11	Master			1.008				
	20.00 (Minimum)	142.5 (Nominal)	265.0 (Maximum)		0.9400 (Minimum)	1.000 (Nominal)	1.060 (Maximum)				

Master: 15-Jul-2005 15:15

Company: Lamont Doherty

Schlumberger

Well: Expedition 309 Site U1256D

Field: Superfast Spreading Crust

Rig: Joides Resolution

Ocean: Pacific Ocean

Hostile Natural Gamma Ray Tool