



**DISCLAIMER**

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**OTHER SERVICES1**

- OS1: FMS
- OS2: DSI
- OS3: DIT
- OS4: APS/HLDS




**REMARKS: RUN NUMBER 1**

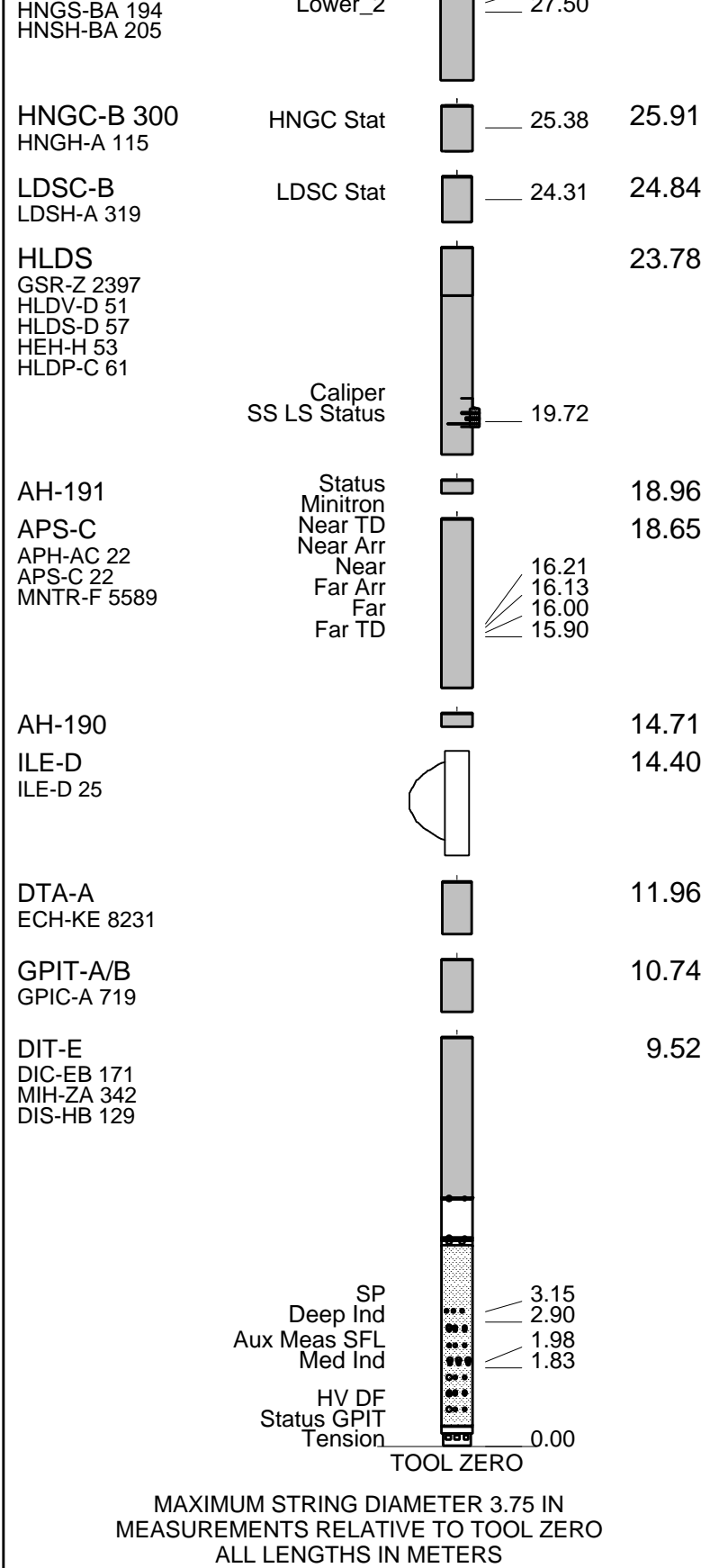
Logs run in first hole ("A" hole) of drilling site U1344 to aid in correlation of core data collected in surface labs.  
 Average heave during the run was only 0.2m; Active Heave Compensator not used.  
 TD was found to be 3928.2mBRF with the pipe (bit) at 3278mBRF. Sea Bed at 3183mBRF.  
 Hole Size input taken from HLDS Caliper.  
 Tools run slick in order to fit through drill pipe, as is standard practice on this project.  
 HLDS Caliper closed at approximately 3301.8m to facility entry into drill pipe.  
 APS minitron deactivated at approximately 3303.5m.  
 Tools run with "Go-Devil" LFV Actuator attached to the bottom of the string for safe passage through the LFV.

RUN 1			RUN 2		
SERVICE ORDER #: PROGRAM VERSION: 17C0-154 FLUID LEVEL:			SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

**EQUIPMENT DESCRIPTION**

RUN 1	RUN 2
<b>SURFACE EQUIPMENT</b>	
SFT-281 2 SFT-178 2 GSR-U 616008 WITM (DTS)-A	

DOWNHOLE EQUIPMENT			
LEH-QT			30.21
LEH-QT 301			
DTC-H	CTEM		29.04
ECH-KC 2304	TelStatus		29.32
	ToolStatu		28.41
HNGS-BA 194	Upper_1		27.71
			27.70



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

Kelly Bushing Elevation

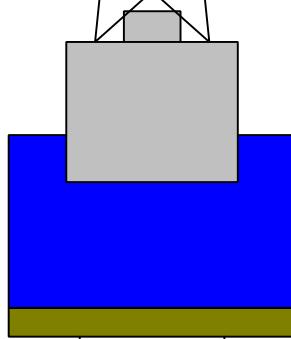
Derrick Floor Elevation

Mean Sea Level

11.0

11.0

0.0



0.0

5.750

3.800



3183.4

11.438

Sea Bed

3280.0

5.750

3.800

Bit Depth

3929.9

11.438

Total Depth - Driller

**Schlumberger**

Main Pass  
TD to Sea Bed

MAXIS Field Log

Input DLIS Files

DEFAULT	PI_APS_LDL_NGS_104LUP	FN:13	PRODUCER	18-Aug-2009 19:06	3929.6 M	3181.0 M
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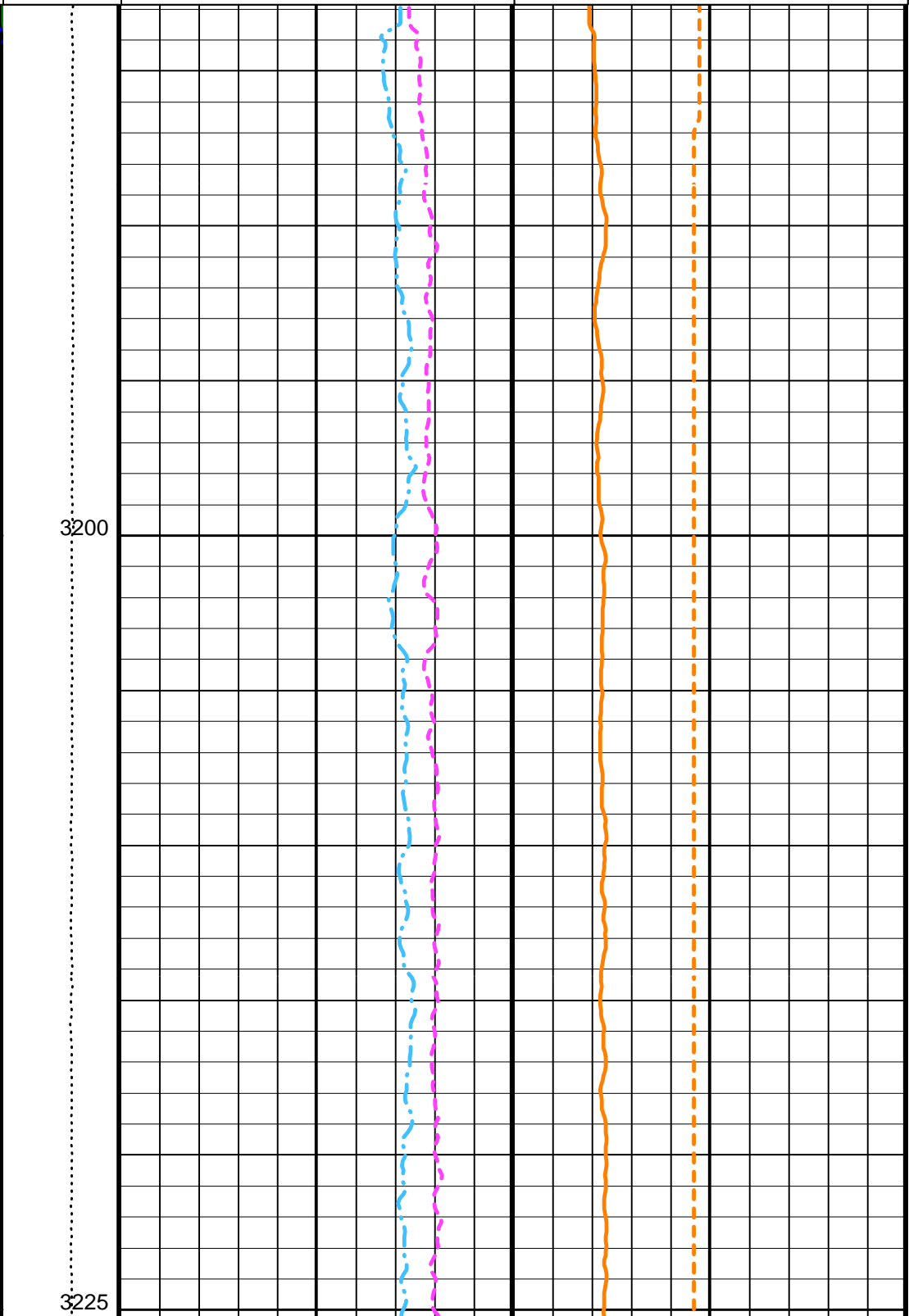
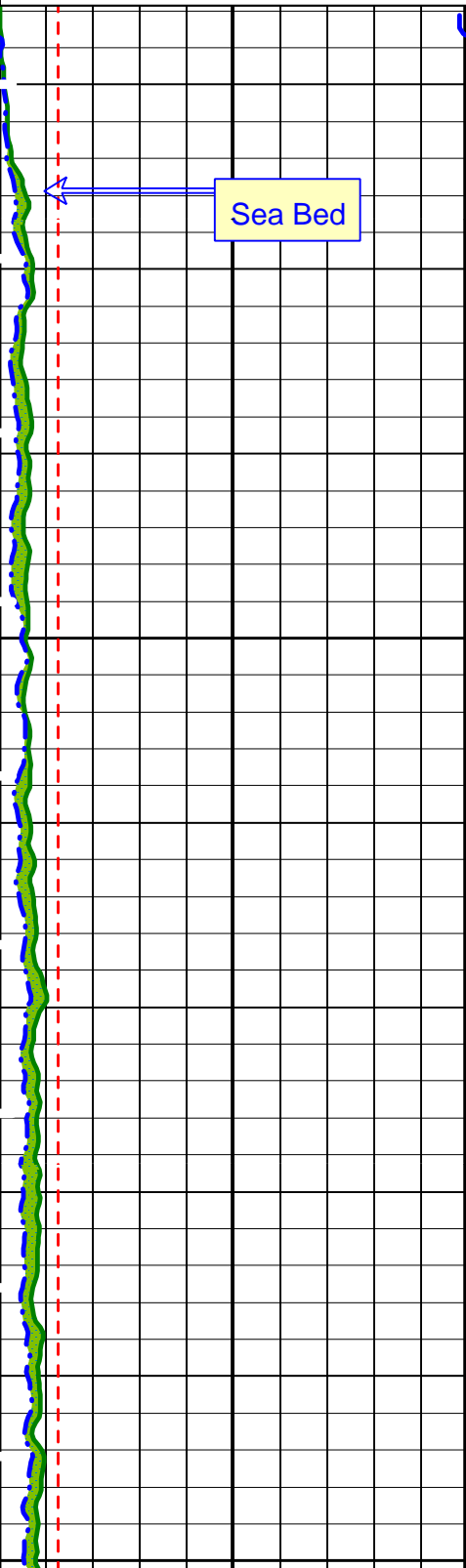
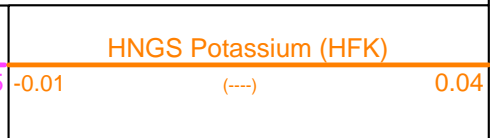
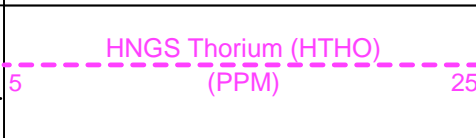
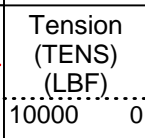
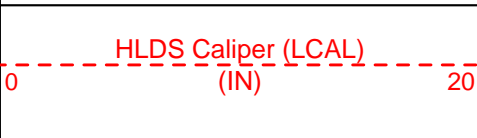
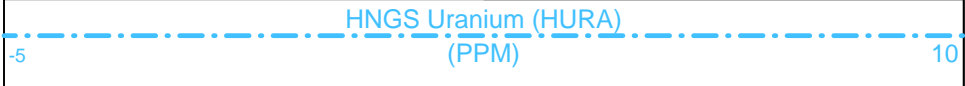
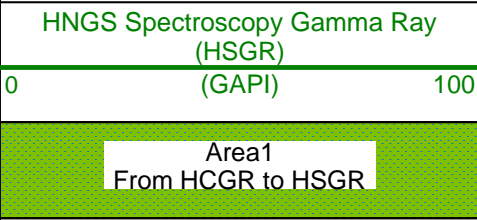
Output DLIS Files

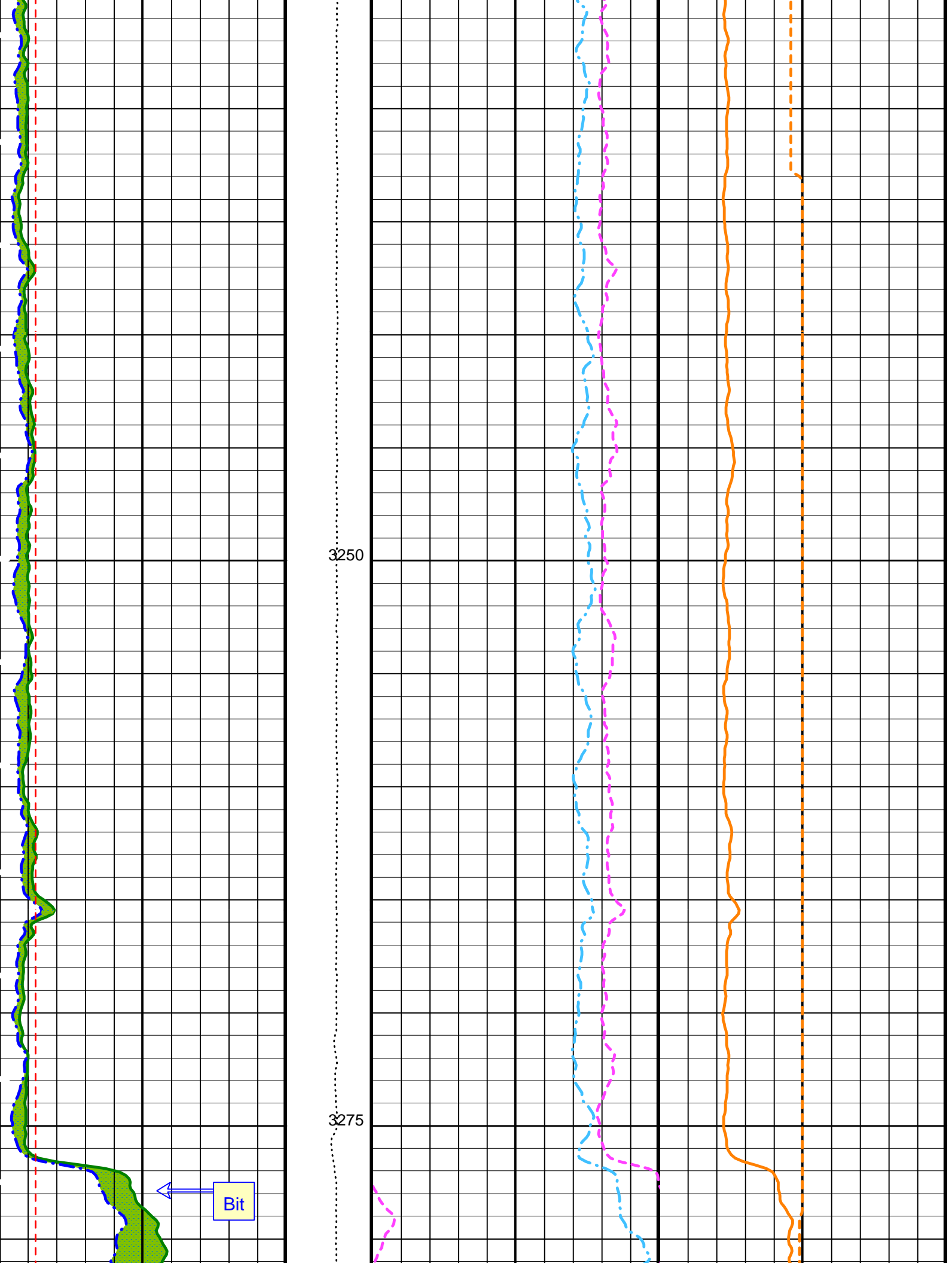
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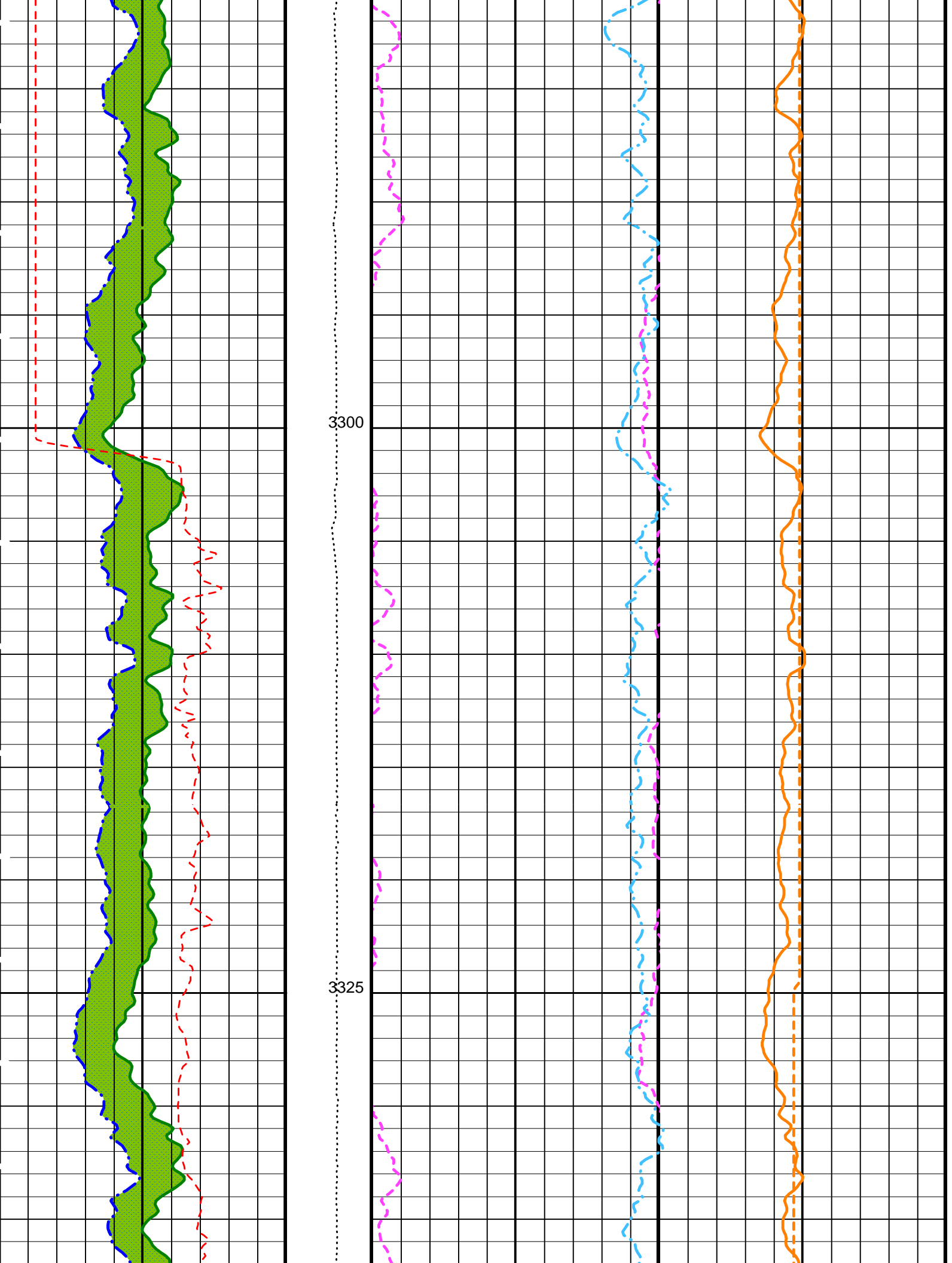
OP System Version: 17C0-154

DIT-E	17C0-154	GPIT-A/B	SRPC-3762-Q1_2009_OP17
DTA-A	17C0-154	APS-C	17C0-154
HLDS	17C0-154	LDSC-B	17C0-154
HNGC-B	17C0-154	HNGS-BA	17C0-154
DTC-H	17C0-154		

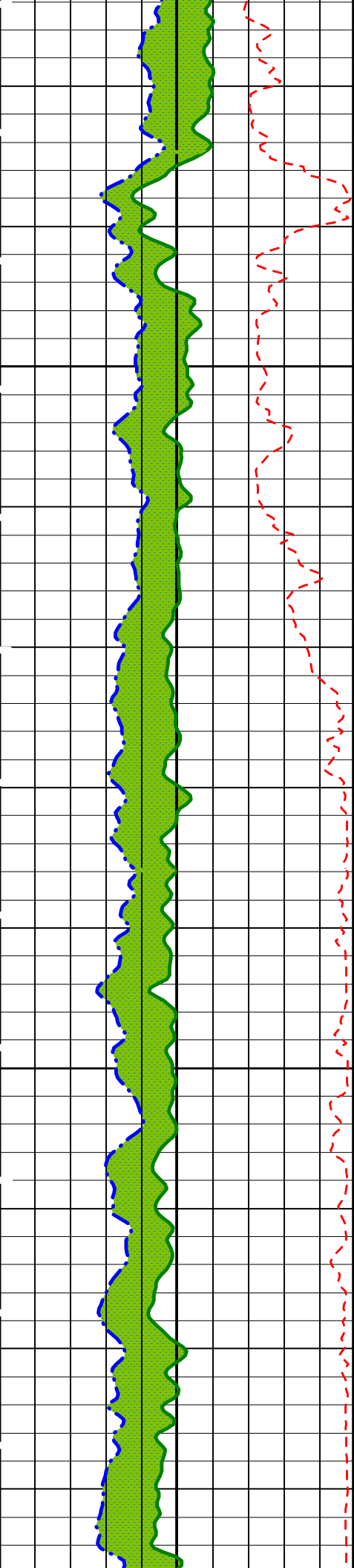
Time Mark Every 60 S





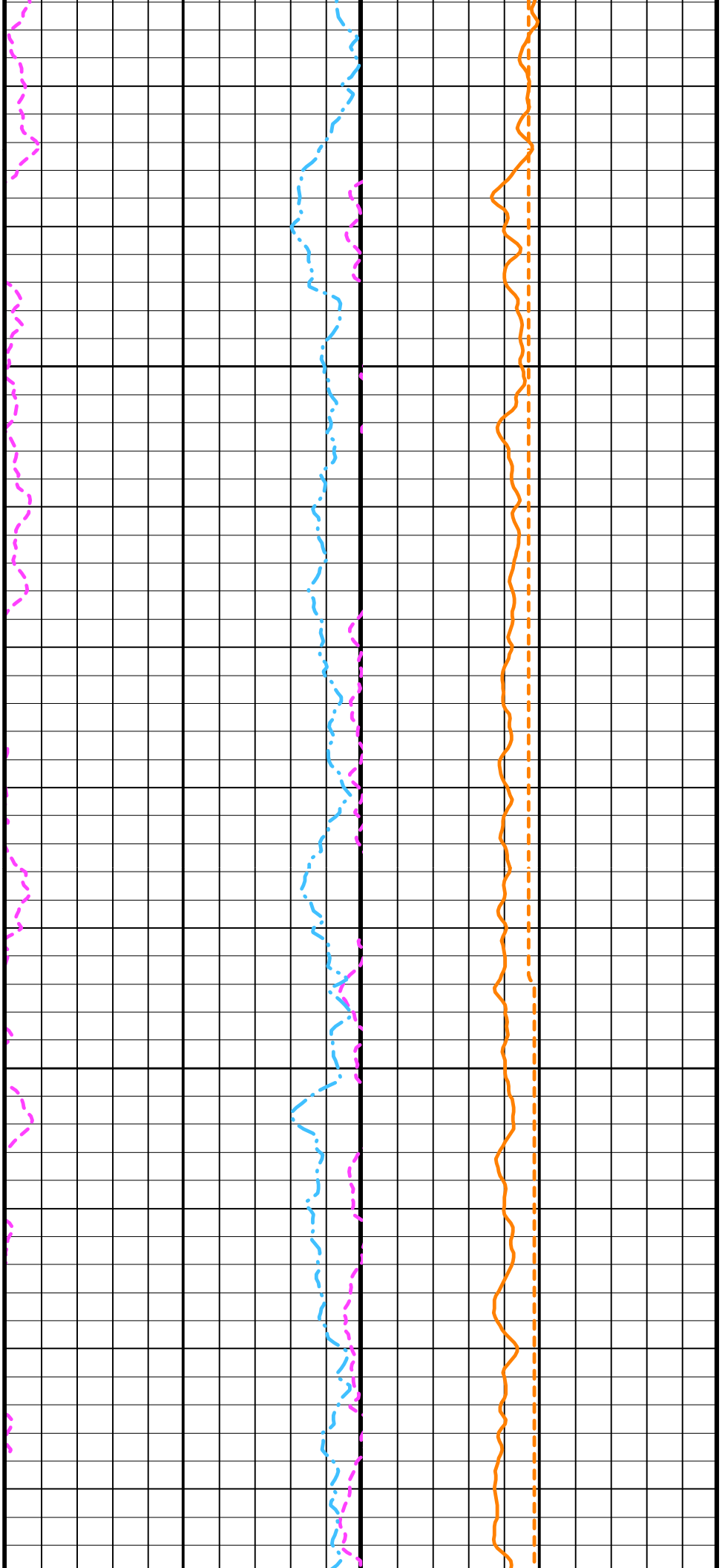


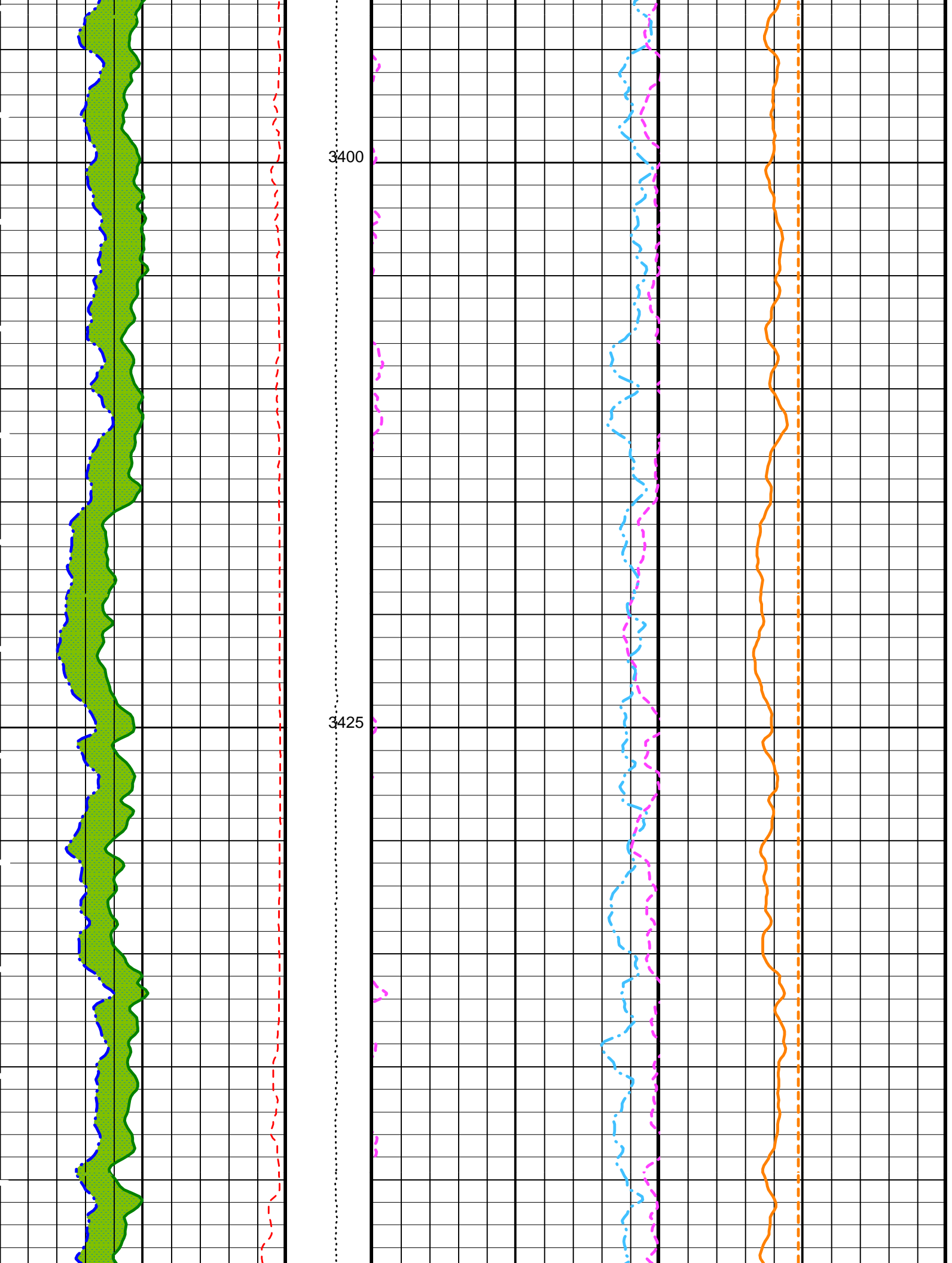


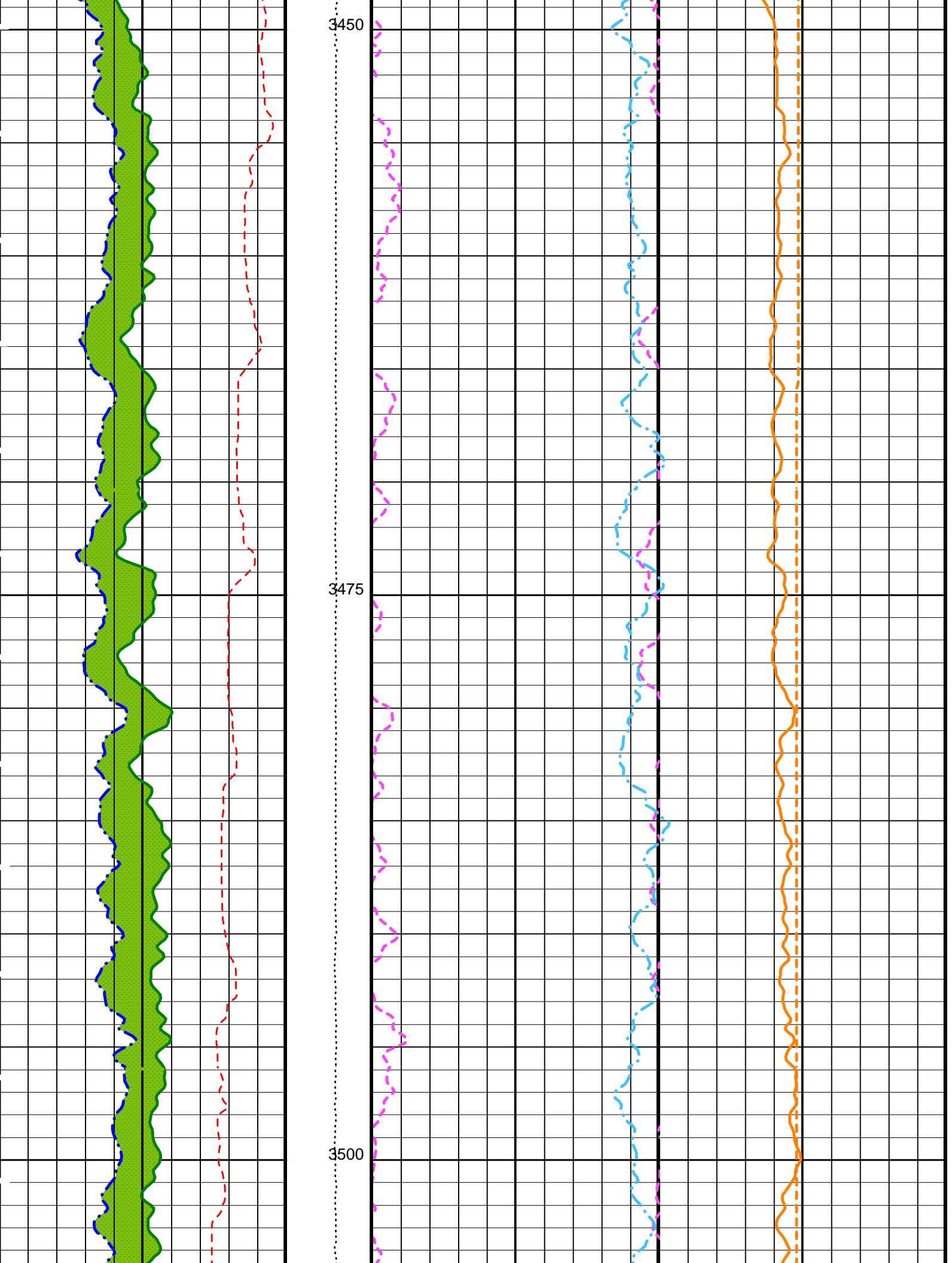


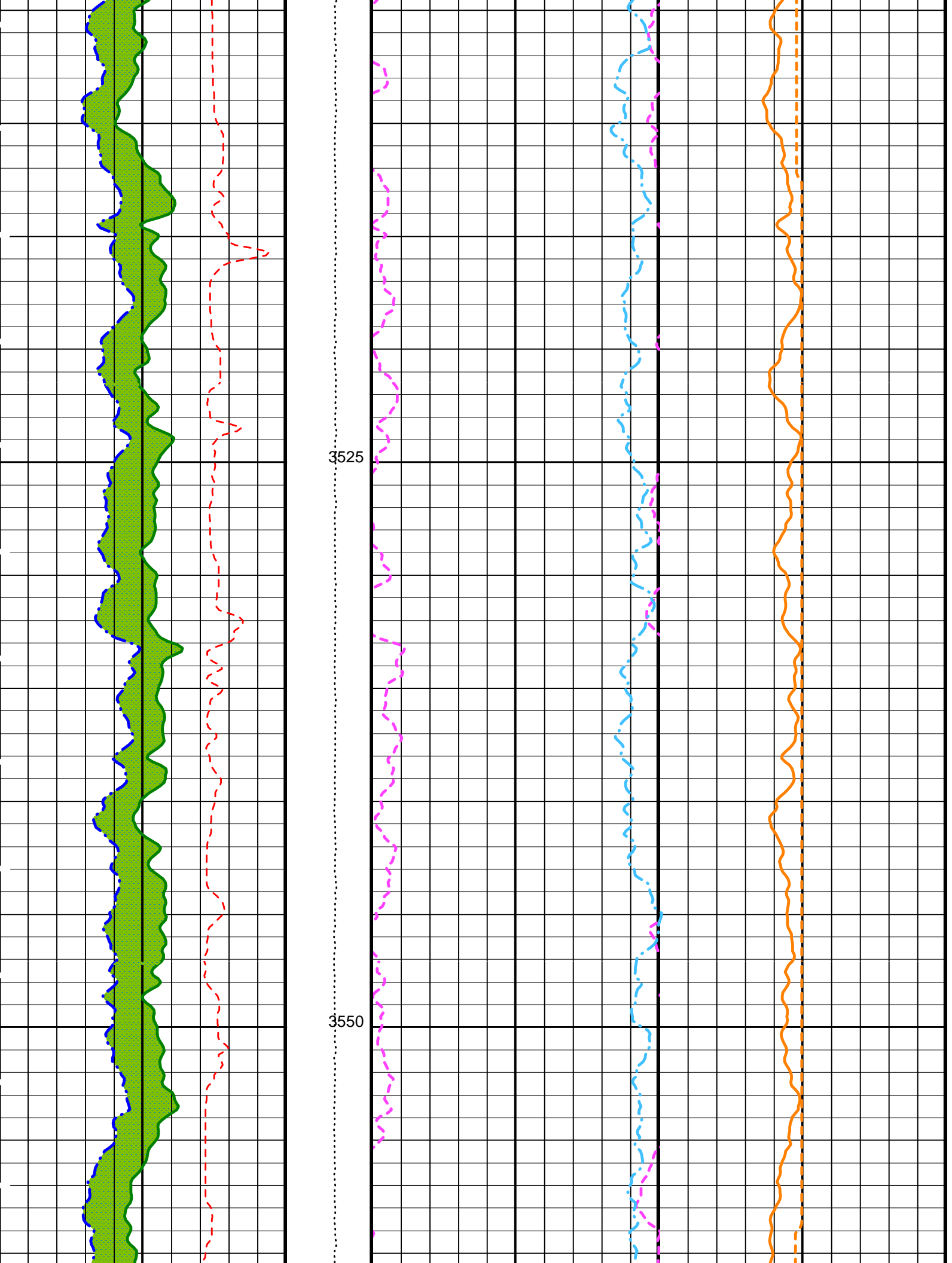
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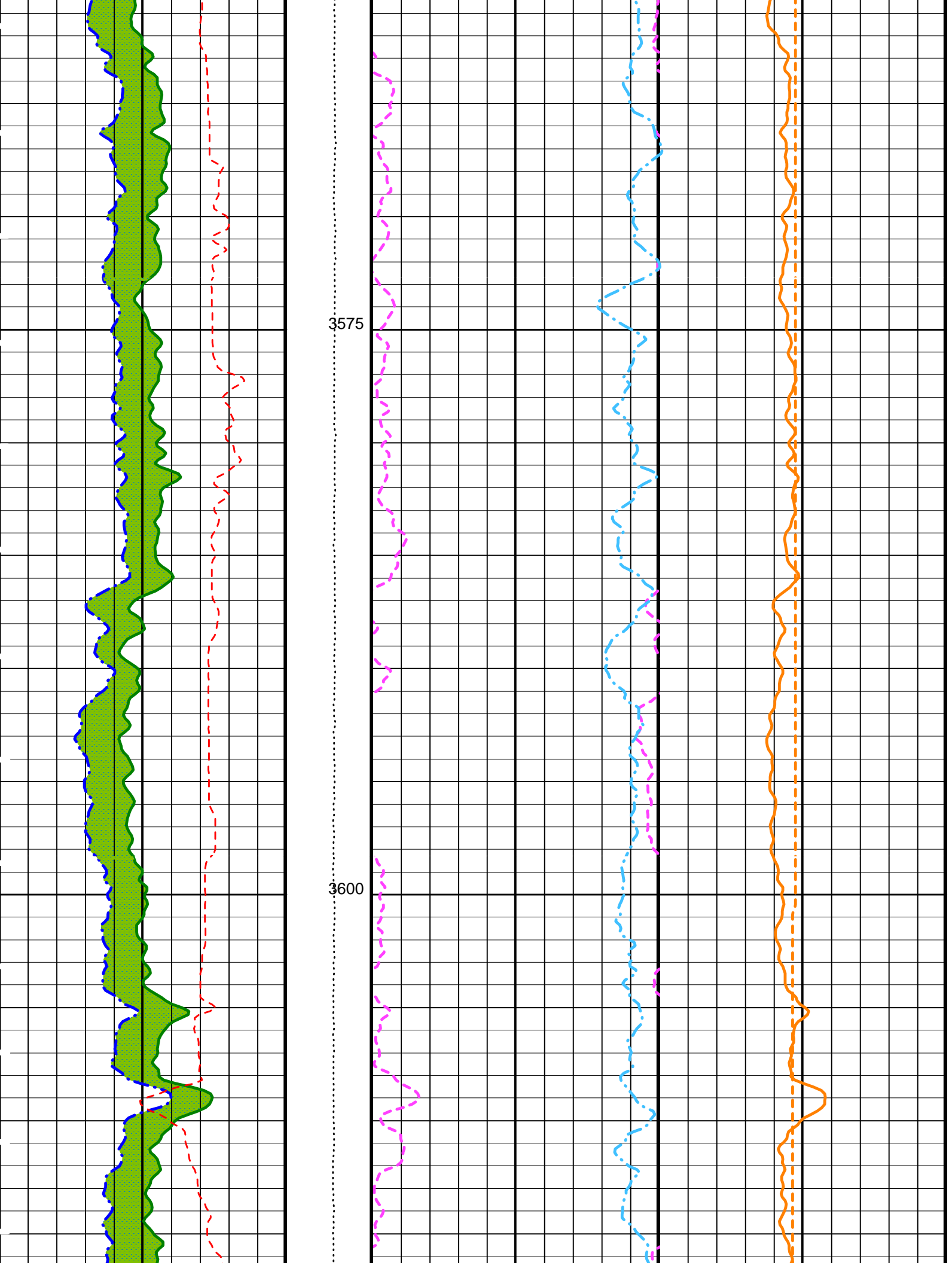
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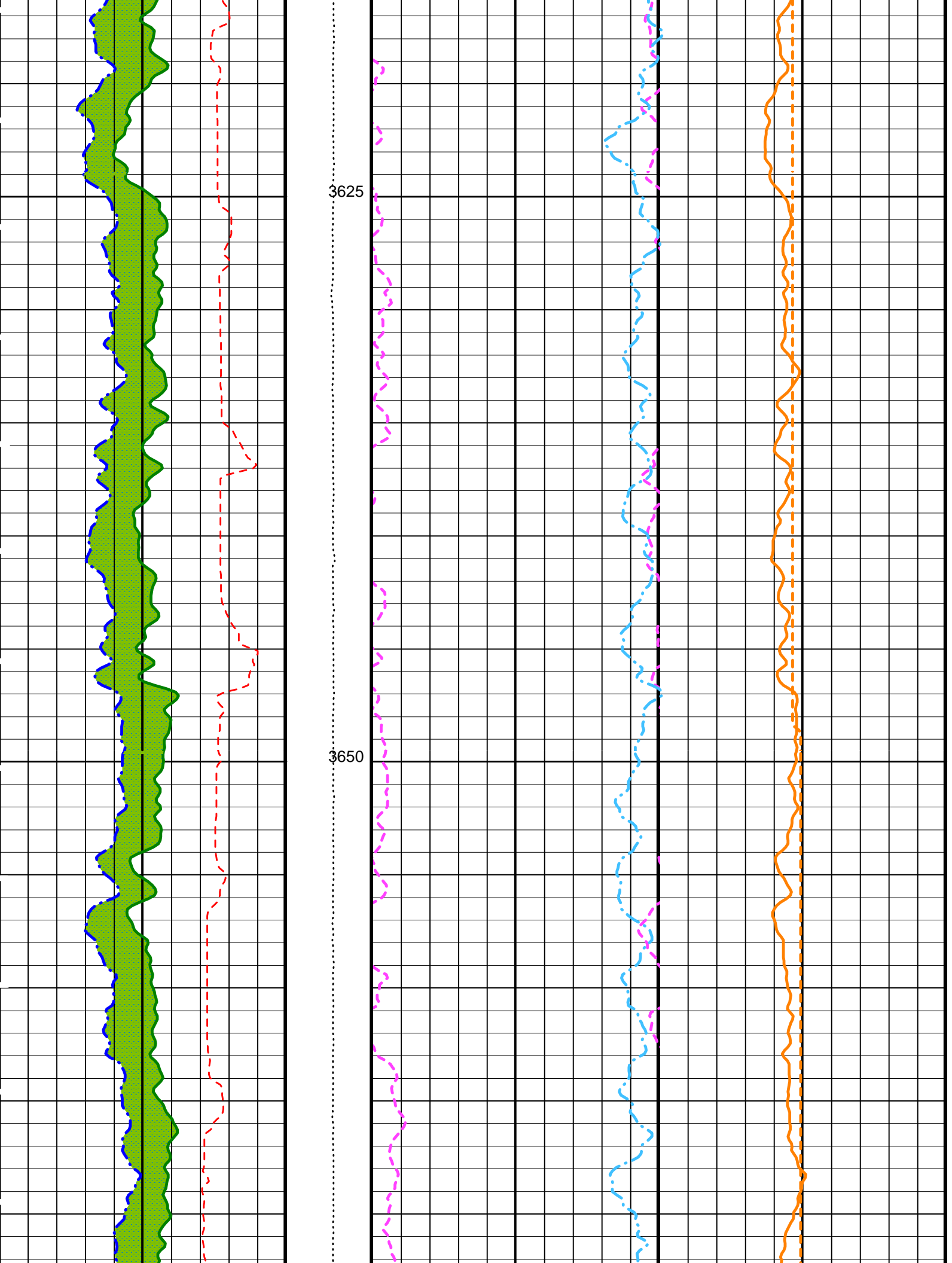


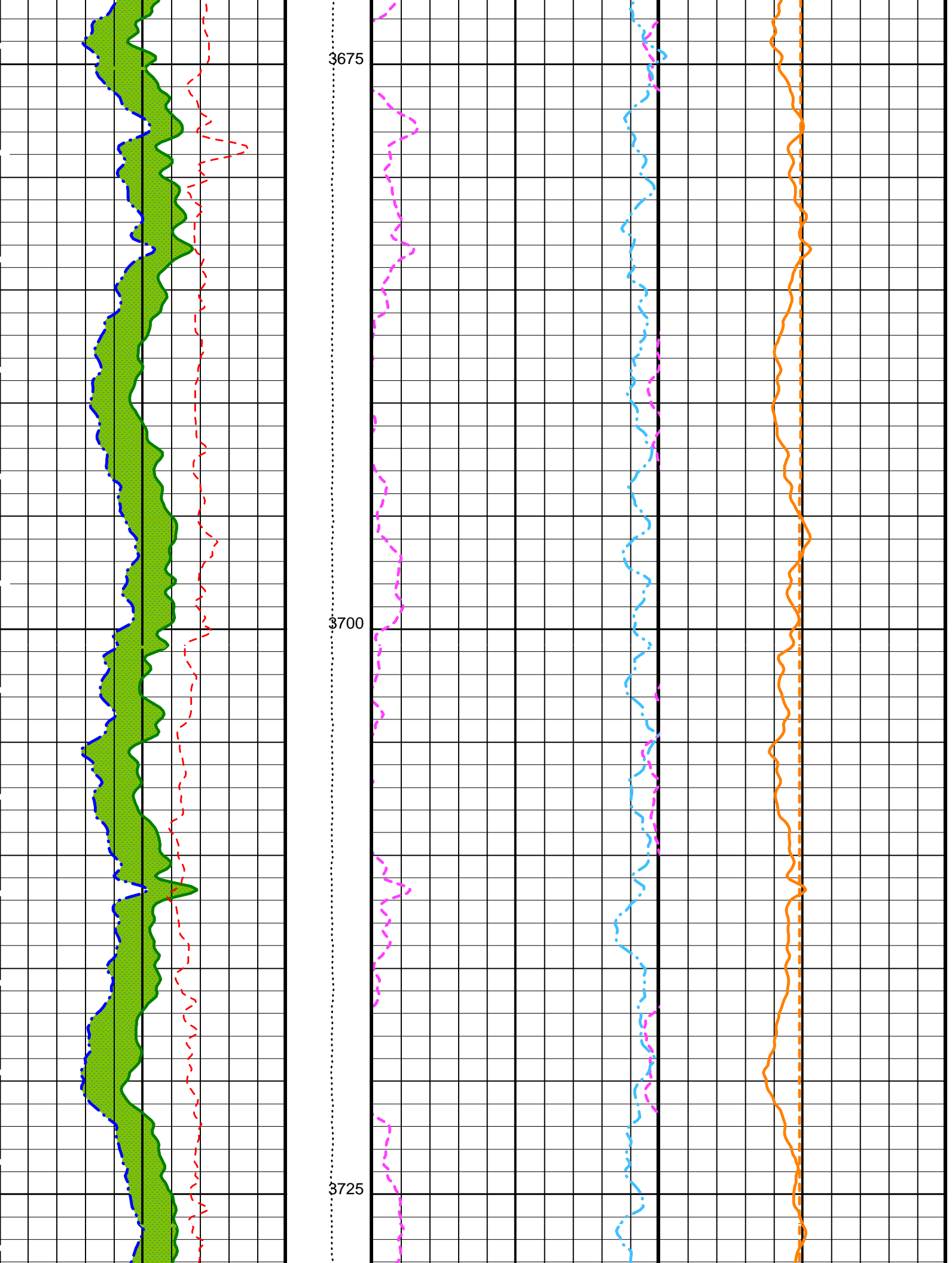


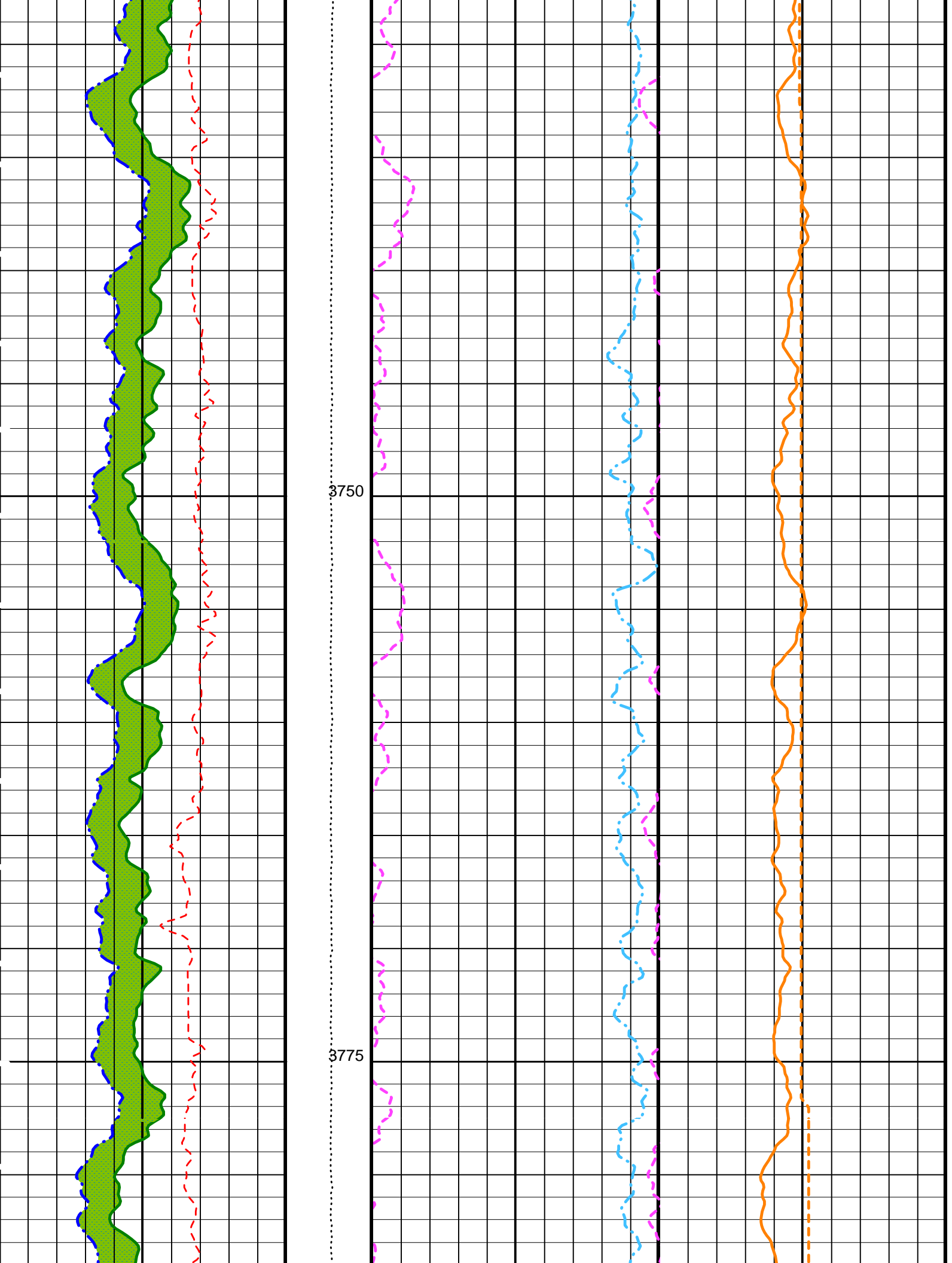




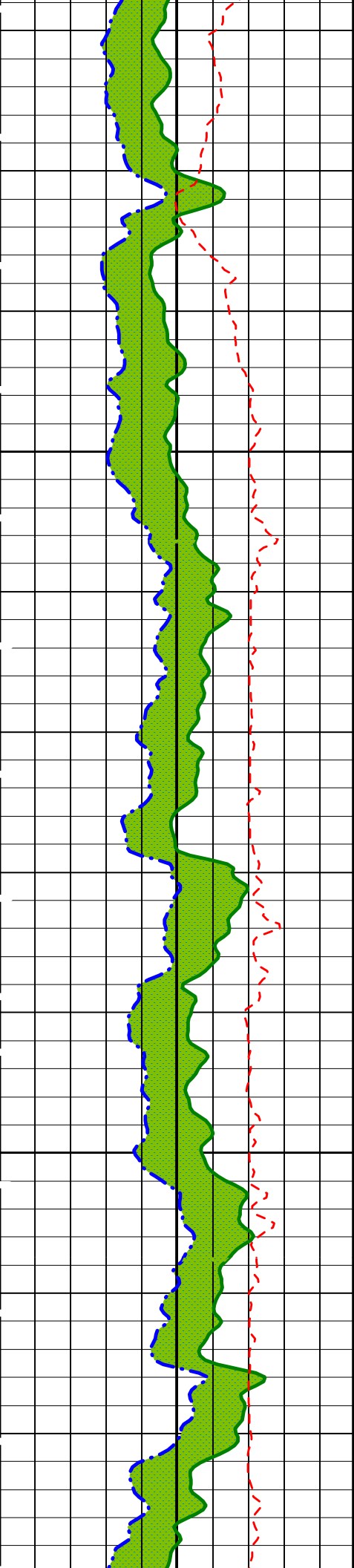






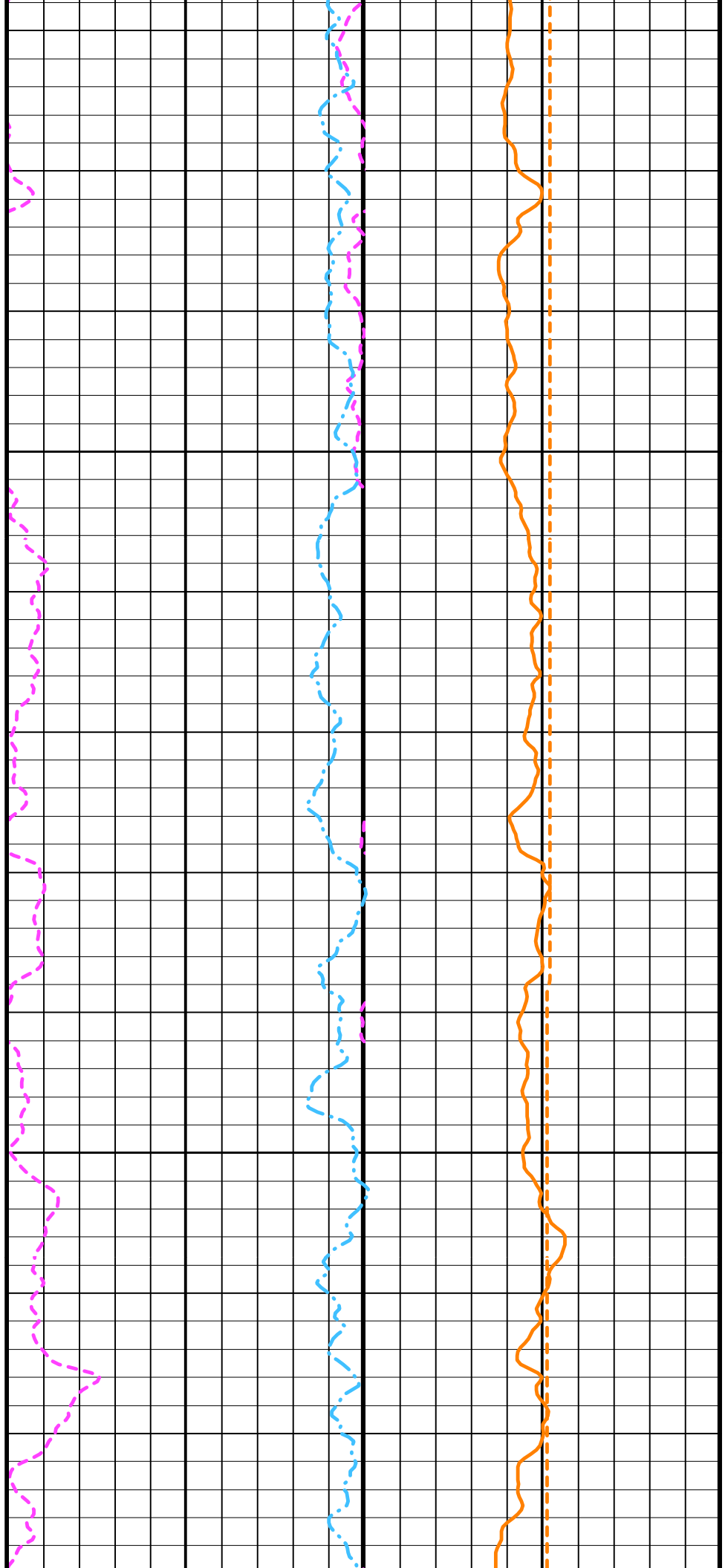


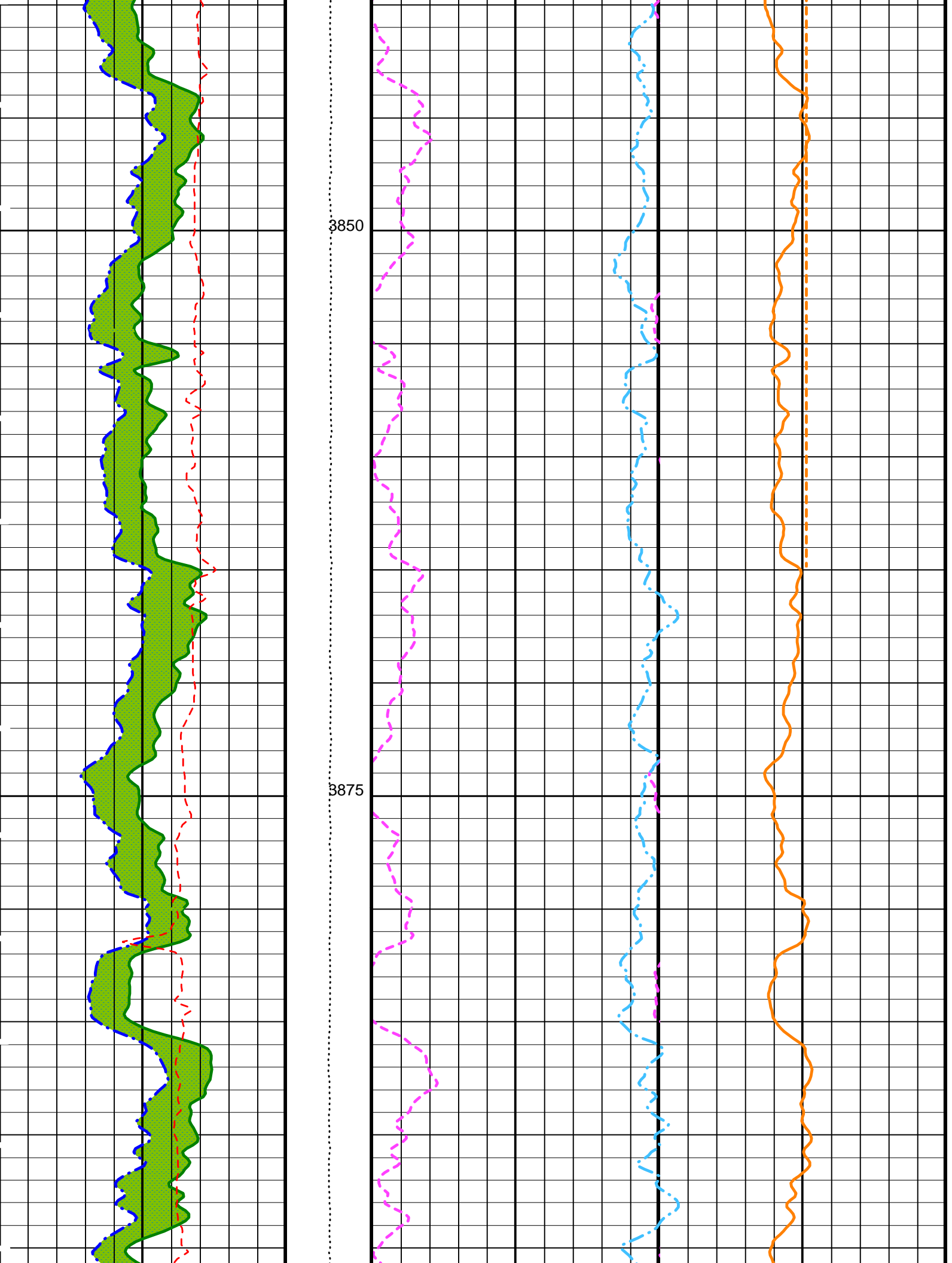


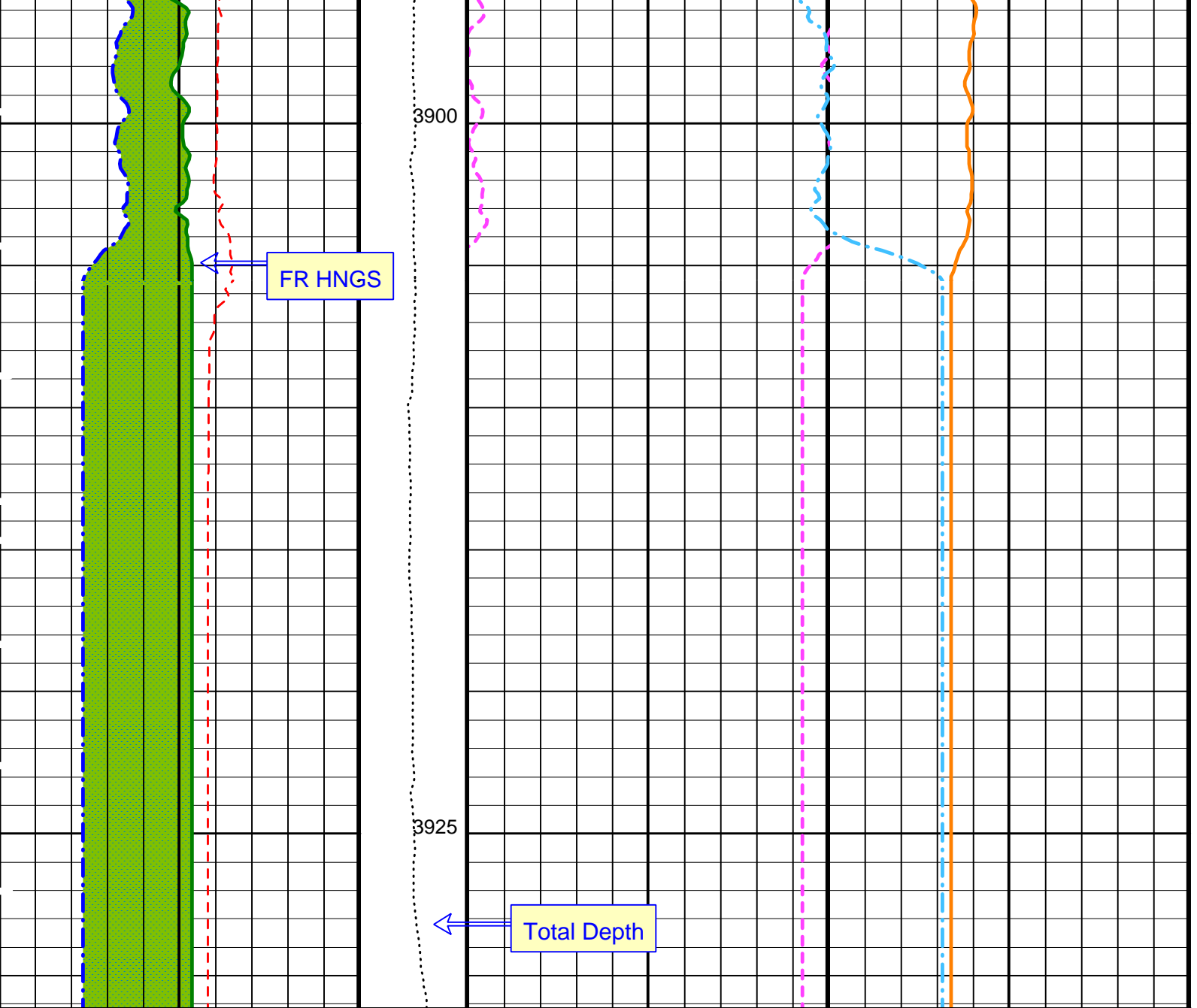


3800

3825







HLDS Caliper (LCAL) (IN)	Tension (TENS) (LBF)	HNGS Thorium (HTHO) (PPM)	HNGS Potassium (HFK)
0 20	10000 0	5 25	-0.01 (---) 0.04
HNGS Computed Gamma Ray (HCGR) (GAPI)		HNGS Uranium (HURA) (PPM)	
0 100		-5 10	
Area1 From HCGR to HSGR			HNGS Borehole Potassium (HBHK)
			-0.05 (---) 0.05
HNGS Spectroscopy Gamma Ray (HSGR)			
0 100			

PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
DIT-E	Dual Induction - E	
BHS	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	212 DEG F
DGF1	Deep 10 kHz Gain Factor	0.968645
DGF2	Deep 20 kHz Gain Factor	0.872112

DGF2	Deep 20 kHz Gain Factor	0.979119	
DGF4	Deep 40 kHz Gain Factor	0.990252	
DPH1	Deep 10 kHz Phase Shift	0.26358	DEG
DPH2	Deep 20 kHz Phase Shift	0.0159963	DEG
DPH4	Deep 40 kHz Phase Shift	-1.11256	DEG
DRE1	Deep Real 10 kHz Sonde Error Correction	39.5751	MM/M
DRE2	Deep Real 20 kHz Sonde Error Correction	17.0457	MM/M
DRE4	Deep Real 40 kHz Sonde Error Correction	5.15121	MM/M
DRIM	DIT-E Radial Invasion Mode	Rxo>Rt	
DSR1	Deep Sigma Reference (10 kHz)	7637	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DSR4	Deep Sigma Reference (40 kHz)	405	MM/M
DSTA	DIT-E Transversal Standoff	0	IN
DXE1	Deep Quad 10 kHz Sonde Error Correction	245.841	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	136.154	MM/M
DXE4	Deep Quad 40 kHz Sonde Error Correction	78.4516	MM/M
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
IFRS	DIT-E Induction Frequency Selector	20	
IPHA	DIT-E Phasor Processing Mode	ALL	
IPRO	DIT-E Induction Processing Selector	PHASOR	
ISSBAR	Barite Mud Switch	NOBARITE	
ITEN	DIT-E Temperature Enable	ENABLE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MGF1	Medium 10 kHz Gain Factor	0.969585	
MGF2	Medium 20 kHz Gain Factor	0.974788	
MGF4	Medium 40 kHz Gain Factor	0.999842	
MPH1	Medium 10 kHz Phase Shift	0.0787021	DEG
MPH2	Medium 20 kHz Phase Shift	-0.199528	DEG
MPH4	Medium 40 kHz Phase Shift	-0.885081	DEG
MRE1	Medium Real 10 kHz Sonde Error Correction	31.1041	MM/M
MRE2	Medium Real 20 kHz Sonde Error Correction	11.3259	MM/M
MRE4	Medium Real 40 kHz Sonde Error Correction	3.5782	MM/M
MSR1	Medium Sigma Reference (10 kHz)	13520	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MSR4	Medium Sigma Reference (40 kHz)	685	MM/M
MXE1	Medium Quad 10 kHz Sonde Error Correction	328.09	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	172.606	MM/M
MXE4	Medium Quad 40 kHz Sonde Error Correction	112.808	MM/M
SBR	Shoulder Bed Resistivity Factor	1	OHMM
SFCR	SFL Channel Ratio	1000	
SFLE	SFL Enable	ENABLE	
SHT	Surface Hole Temperature	68	DEGF
SPAE	DIT-E SPARC Processing Enable	ENABLE	
SPNV	SP Next Value	0	MV

GPIT-A/B: General Purpose Inclinometer

ACPP	Accelerometer PROM Presence	PRESENT	
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ART	Accelerometer Reference Temperature	20	DEGC
GLM	GPIT Logging Mode	DIPM	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MAPP	Magnetometer PROM Presence	PRESENT	
MDEC	Magnetic Field Declination	4.728	DEG
MRTE	Magneto Reference Temperature	23	DEGC
TEMS	GPIT Temperature Sensor Used	BOTH	
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO	

APS-C: Accelerator-Porosity Tool

AASD	APS Software Version	0	
ADSO	APS Thermal and Array Detectors High Voltage Setting	1965.7	V
AFSD	APS Array Detectors Data Source Switch	Both	
AHCS	APS Far Detector High Voltage Setting	2077.27	V
AHSS	APS Holesize Correction Source	BS	
AMTY	APS Holesize Correction Switch	ON	
ANSD	APS Environmental Corrections Mud Type	WaterBaseBarite	
ASOS	APS Near Detector High Voltage Setting	1732.81	V
ATSS	APS Standoff Correction Switch	ON	
BHFL_APS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHS	APS TNPH Borehole Fluid Type	WATER	
BHT	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
BSCO_APS	APS TNPH Borehole Salinity Correction Option	YES	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source	COMPUTED	
FSAL	Formation Salinity	-50000	PPM
FSCO_APS	APS TNPH Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	

ISSBAR	Barite Mud Switch			
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
MCCO_APS	APS TNPH Mud Cake Correction Option	YES		
MCOR_APS	APS TNPH Mud Correction	NATU		
MWCO_APS	APS TNPH Mud Weight Correction Option	YES		
NARC	APS Near/Array Calibration Ratio	1.05904		
NFRC	APS Near/Far Calibration Ratio	0.885245		
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES		
SHT	Surface Hole Temperature	68		DEGF
TNCO_APS	APS TNPH Computation Option	NO		
HLDS: Hostile Litho-Density Sonde				
CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT		
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT		
CLLS	HLDS Mode Loop Long Spacing	AUTO		
CLSS	HLDS Mode Loop Short Spacing	AUTO		
DHC	Density Hole Correction	BS		
DPPM	Density Porosity Processing Mode	HIRS		
FD	Fluid Density	1		G/C3
LATC	HLDS Activation Correction	OFF		
LLDL	HLDS LS Low Level Discriminator DAC	14000		
LLDS	HLDS SS Low Level Discriminator DAC	14000		
LLML	HLDS LS Low Level Discriminator Mode	AUTO		
LLMS	HLDS SS Low Level Discriminator Mode	AUTO		
MDEN	Matrix Density	2.71		G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000		V
PHVS	HLDS Short Spacing High Voltage Setting	1000		V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000		
PSDS	HLDS SS Pulse Shape Compensation DAC	30000		
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO		
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO		
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		
BHT	Bottom Hole Temperature (used in calculations)	212		DEGF
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		
GDEV	Average Angular Deviation of Borehole from Normal	0		DEG
GRGD	Geothermal Gradient	0.01		DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9		
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE		
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW		
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW		
HABK	HNGS Borehole Potassium Running Average	-0.00183121		
HALF	HNGS Alpha Filter Length	60		IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE		
HMWM	Mud Weighting Material	BARI		
HNPE	HNGS Processing Enable	YES		
ISSBAR	Barite Mud Switch	NOBARITE		
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE		
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		
SHT	Surface Hole Temperature	68		DEGF
TPOS	Tool Position	ECCE		
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.994454		
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.988514		
System and Miscellaneous				
ALTDPCHAN	Name of alternate depth channel	SpeedCorrectedDepth		
BS	Bit Size	11.438		IN
BSAL	Borehole Salinity	-50000.00		PPM
CSIZ	Current Casing Size	4.500		IN
CWEI	Casing Weight	0.00		LB/F
DFD	Drilling Fluid Density	1.26		G/C3
DO	Depth Offset for Playback	1.9		M
FLEV	Fluid Level	-50000.00		M
MST	Mud Sample Temperature	-50000.00		DEGC
PBVSADP	Use alternate depth channel for playback	NO		
PP	Playback Processing	NORMAL		
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000		OHMM
RW	Resistivity of Connate Water	1.0000		OHMM
TD	Total Depth	-50000		FT
TDD	Total Depth - Driller	3929.90		M
TDL	Total Depth - Logger	3929.90		M
TWS	Temperature of Connate Water Sample	37.78		DEGC

DIT-E	17C0-154	GPIT-A/B	SRPC-3762-Q1_2009_OP17
DTA-A	17C0-154	APS-C	17C0-154
HLDS	17C0-154	LDSC-B	17C0-154
HNGC-B	17C0-154	HNGS-BA	17C0-154
DTC-H	17C0-154		

### Input DLIS Files

DEFAULT	PI_APS_LDL_NGS_104LUP	FN:13	PRODUCER	18-Aug-2009 19:06	3929.6 M	3181.0 M
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### Output DLIS Files

DEFAULT	PI_APS_LDL_NGS_118PUP	FN:33	PRODUCER	19-Aug-2009 19:31		
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Repeat Pass  
OH Only

MAXIS Field Log

### Input DLIS Files

DEFAULT	PI_APS_LDL_NGS_103LUP	FN:11	PRODUCER	18-Aug-2009 18:36	3929.6 M	3849.6 M
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### Output DLIS Files

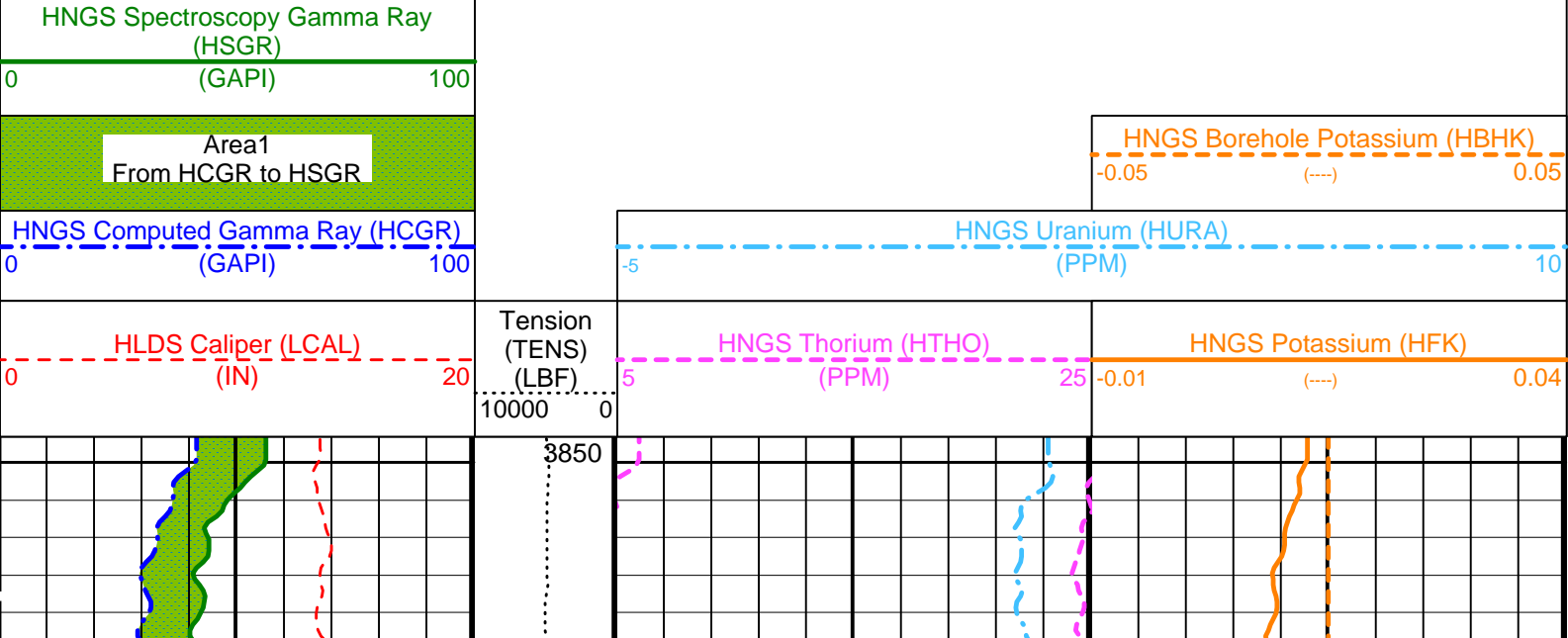
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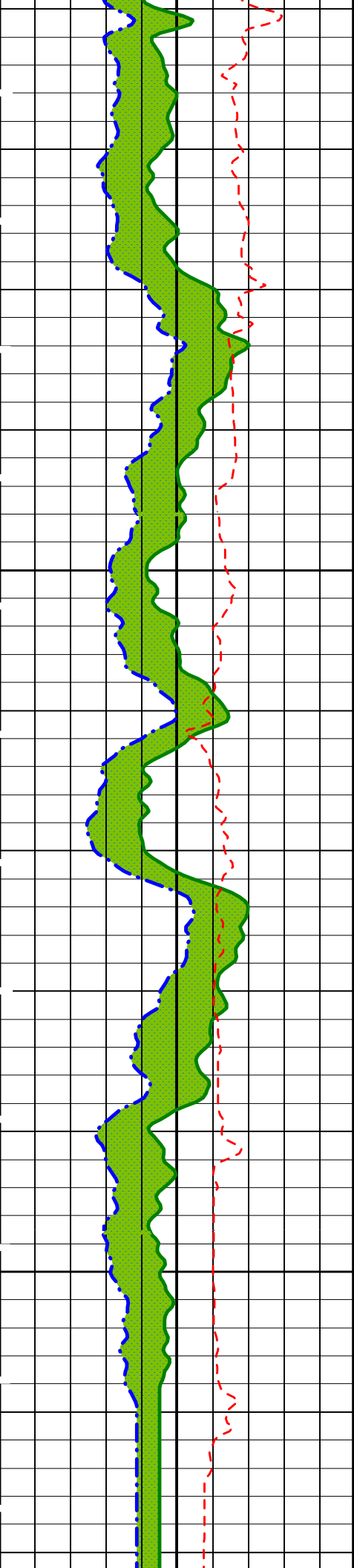
OP System Version: 17C0-154

DIT-E	17C0-154	GPIT-A/B	SRPC-3762-Q1_2009_OP17
DTA-A	17C0-154	APS-C	17C0-154
HLDS	17C0-154	LDSC-B	17C0-154
HNGC-B	17C0-154	HNGS-BA	17C0-154
DTC-H	17C0-154		

### PIP SUMMARY

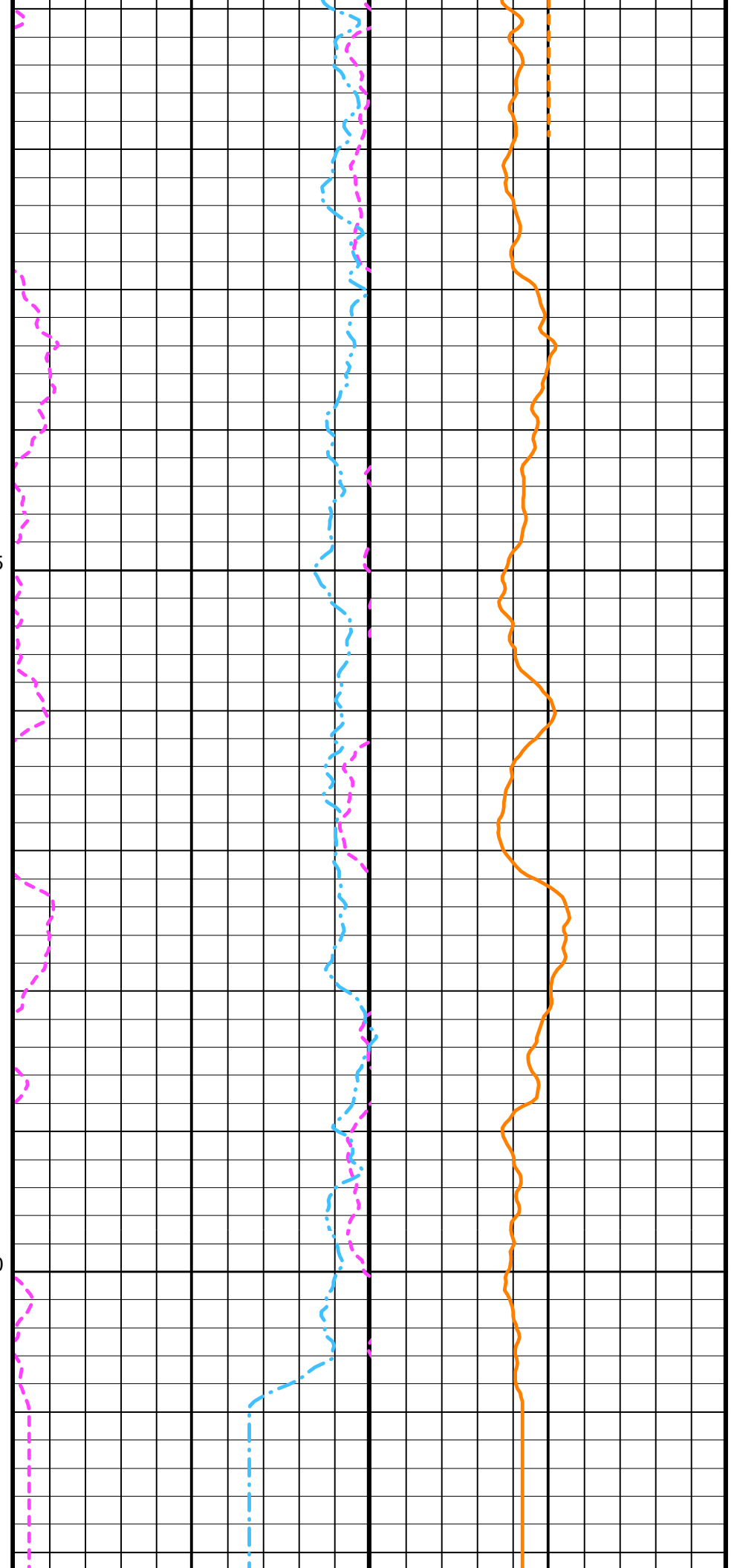
Time Mark Every 60 S

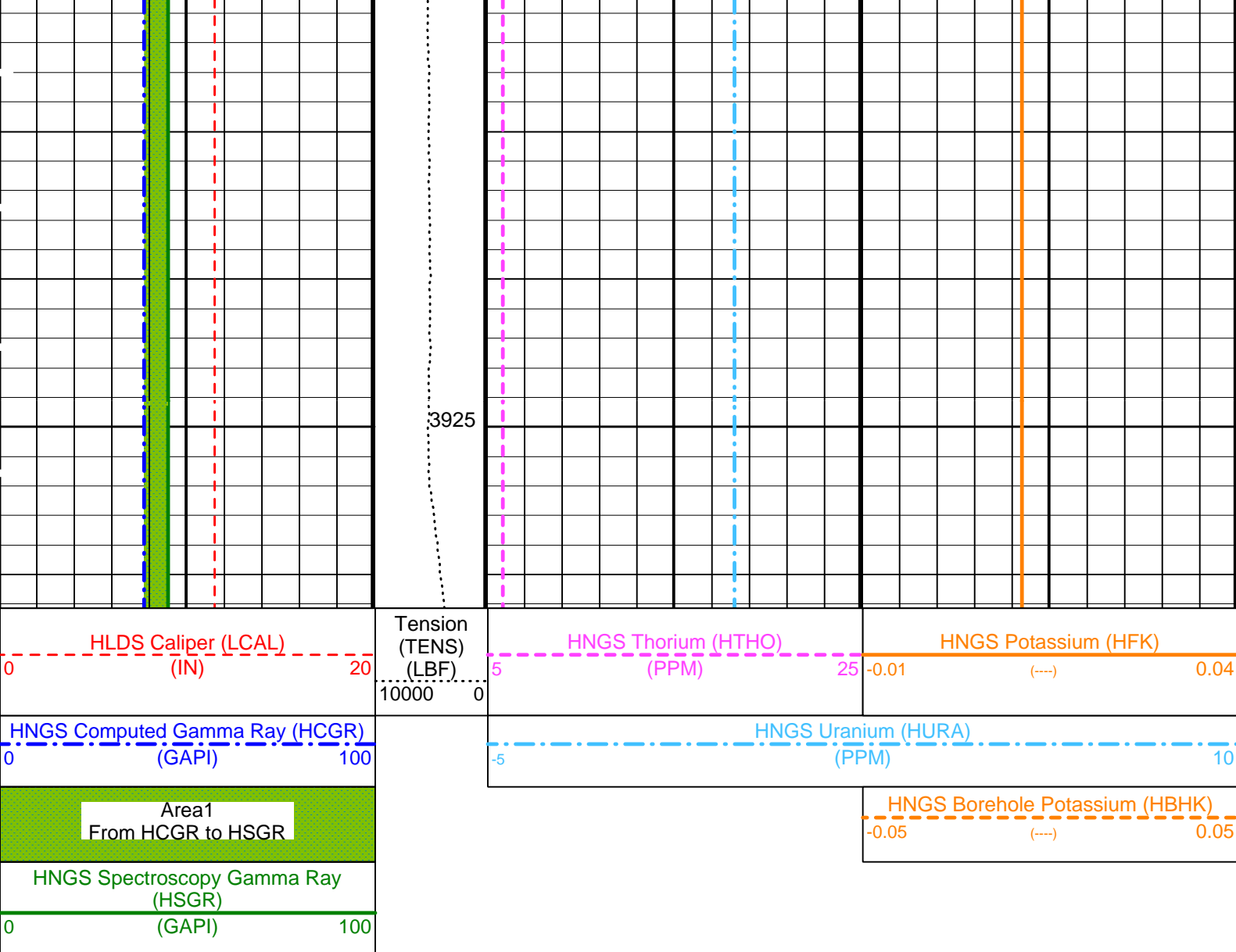




3875

3900





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DIT-E: Dual Induction - E			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
DGF1	Deep 10 kHz Gain Factor	0.968645	
DGF2	Deep 20 kHz Gain Factor	0.979119	
DGF4	Deep 40 kHz Gain Factor	0.990252	
DPH1	Deep 10 kHz Phase Shift	0.26358	DEG
DPH2	Deep 20 kHz Phase Shift	0.0159963	DEG
DPH4	Deep 40 kHz Phase Shift	-1.11256	DEG
DRE1	Deep Real 10 kHz Sonde Error Correction	39.5751	MM/M
DRE2	Deep Real 20 kHz Sonde Error Correction	17.0457	MM/M
DRE4	Deep Real 40 kHz Sonde Error Correction	5.15121	MM/M
DRIM	DIT-E Radial Invasion Mode	Rxo>Rt	
DSR1	Deep Sigma Reference (10 kHz)	7637	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DSR4	Deep Sigma Reference (40 kHz)	405	MM/M
DSTA	DIT-E Transversal Standoff	0	IN
DXE1	Deep Quad 10 kHz Sonde Error Correction	245.841	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	136.154	MM/M
DXE4	Deep Quad 40 kHz Sonde Error Correction	78.4516	MM/M
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
IFRS	DIT-E Induction Frequency Selector	20	
IPHA	DIT-E Phasor Processing Mode	ALL	



IPRO	DIT-E Induction Processing Selector	PHASOR	
ISSBAR	Barite Mud Switch	NOBARITE	
ITEN	DIT-E Temperature Enable	ENABLE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MGF1	Medium 10 kHz Gain Factor	0.969585	
MGF2	Medium 20 kHz Gain Factor	0.974788	
MGF4	Medium 40 kHz Gain Factor	0.999842	
MPH1	Medium 10 kHz Phase Shift	0.0787021	DEG
MPH2	Medium 20 kHz Phase Shift	-0.199528	DEG
MPH4	Medium 40 kHz Phase Shift	-0.885081	DEG
MRE1	Medium Real 10 kHz Sonde Error Correction	31.1041	MM/M
MRE2	Medium Real 20 kHz Sonde Error Correction	11.3259	MM/M
MRE4	Medium Real 40 kHz Sonde Error Correction	3.5782	MM/M
MSR1	Medium Sigma Reference (10 kHz)	13520	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MSR4	Medium Sigma Reference (40 kHz)	685	MM/M
MXE1	Medium Quad 10 kHz Sonde Error Correction	328.09	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	172.606	MM/M
MXE4	Medium Quad 40 kHz Sonde Error Correction	112.808	MM/M
SBR	Shoulder Bed Resistivity Factor	1	OHMM
SFCR	SFL Channel Ratio	1000	
SFLE	SFL Enable	ENABLE	
SHT	Surface Hole Temperature	68	DEGF
SPAE	DIT-E SPARC Processing Enable	ENABLE	
SPNV	SP Next Value	0	MV
GPIT-A/B: General Purpose Inclinometer			
ACPP	Accelerometer PROM Presence	PRESENT	
AFMO	Accelerometer Filtering Mode	MOVING_AVERAGE	
ART	Accelerometer Reference Temperature	20	DEGC
GLM	GPIT Logging Mode	DIPM	
ICMO	Inclinometry Computation Mode	AUTOMATIC_SELECTION	
MAPP	Magnetometer PROM Presence	PRESENT	
MDEC	Magnetic Field Declination	4.728	DEG
MRTE	Magneto Reference Temperature	23	DEGC
TEMS	GPIT Temperature Sensor Used	BOTH	
U-GPOF	Playback OLD VERSION GPIT FILE (BEFORE OP14 + SRPC-3098-FEB_2006_C) ?	NO	

APS-C: Accelerator-Porosity Tool

	APS Software Version	0	
AASD	APS Thermal and Array Detectors High Voltage Setting	1965.7	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2077.27	V
AHCS	APS Holesize Correction Source	BS	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1732.81	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON	
BHFL_APS	APS TNPH Borehole Fluid Type	WATER	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
BSCO_APS	APS TNPH Borehole Salinity Correction Option	YES	
DPPM	Density Porosity Processing Mode	HIRS	
DSCO_APS	APS TNPH Density Source	COMPUTED	
FSAL	Formation Salinity	-50000	PPM
FSCO_APS	APS TNPH Formation Salinity Correction Option	NO	
GCSE	Generalized Caliper Selection	BS	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HSCO_APS	APS TNPH Hole Size Correction Option	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
MCCO_APS	APS TNPH Mud Cake Correction Option	YES	
MCOR_APS	APS TNPH Mud Correction	NATU	
MWCO_APS	APS TNPH Mud Weight Correction Option	YES	
NARC	APS Near/Array Calibration Ratio	1.05904	
NFRC	APS Near/Far Calibration Ratio	0.885245	
PTCO_APS	APS TNPH Pressure/Temperature Correction Option	YES	
SHT	Surface Hole Temperature	68	DEGF
TNCO_APS	APS TNPH Computation Option	NO	

HLDS: Hostile Litho-Density Sonde

CLCL	HLDS LS Control Loop Controller Mode	AUTO_DEFAULT	
CLCS	HLDS SS Control Loop Controller Mode	AUTO_DEFAULT	
CLLS	HLDS Mode Loop Long Spacing	AUTO	
CLSS	HLDS Mode Loop Short Spacing	AUTO	
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
FD	Fluid Density	1	G/C3
LATC	HLDS Activation Correction	OFF	
LLDL	HLDS LS Low Level Discriminator DAC	14000	
LLDS	HLDS SS Low Level Discriminator DAC	14000	
LLML	HLDS LS Low Level Discriminator Mode	AUTO	
LLMS	HLDS SS Low Level Discriminator Mode	AUTO	

LIMS	HLDS SS Low Level Discriminator Mode	AUTO	
MDEX	Matrix Density	2.71	G/C3
PHVL	HLDS Long Spacing High Voltage Setting	1000	V
PHVS	HLDS Short Spacing High Voltage Setting	1000	V
PSDL	HLDS LS Pulse Shape Compensation DAC	30000	
PSDS	HLDS SS Pulse Shape Compensation DAC	30000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
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	
BHT	Bottom Hole Temperature (used in calculations)	212	DEGF
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	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
H1P	HNGS Detector 1 Allow/Disallow In Processing	ALLOW	
H2P	HNGS Detector 2 Allow/Disallow In Processing	ALLOW	
HABK	HNGS Borehole Potassium Running Average	-0.00183121	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	BARI	
HNPE	HNGS Processing Enable	YES	
ISSBAR	Barite Mud Switch	NOBARITE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
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	
SHT	Surface Hole Temperature	68	DEGF
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.994454	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.988514	

System and Miscellaneous

ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	4.500	IN
CWEI	Casing Weight	0.00	LB/F
DFD	Drilling Fluid Density	1.26	G/C3
DO	Depth Offset for Playback	1.6	M
FLEV	Fluid Level	-50000.00	M
MST	Mud Sample Temperature	-50000.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
PP	Playback Processing	NORMAL	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	-50000	FT
TDD	Total Depth - Driller	3929.90	M
TDL	Total Depth - Logger	3929.90	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: HNGSYields    Vertical Scale: 1:200    Graphics File Created: 19-Aug-2009 19:29

### OP System Version: 17C0-154

DIT-E	17C0-154	GPIT-A/B	SRPC-3762-Q1_2009_OP17
DTA-A	17C0-154	APS-C	17C0-154
HLDS	17C0-154	LDSC-B	17C0-154
HNGC-B	17C0-154	HNGS-BA	17C0-154
DTC-H	17C0-154		

### Input DLIS Files

DEFAULT	PI_APS_LDL_NGS_103LUP	FN:11	PRODUCER	18-Aug-2009 18:36	3929.6 M	3849.6 M
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### Output DLIS Files

DEFAULT	PI_APS_LDL_NGS_117PUP	FN:32	PRODUCER	19-Aug-2009 19:29		
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## MAXIS Field Log

## 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: 18-Aug-2009 15:47							
TEMPERATURE REFERENCE :	N/A	N/A	20	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	3	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	743	N/A	N/A	N/A	
General Purpose Inclinometer Wellsite Calibration - CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 18-Aug-2009 15:47							
TEMPERATURE REFERENCE :	N/A	N/A	23	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	3	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	9	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	507	N/A	N/A	N/A	
Accelerator-Porosity Tool Wellsite Calibration - Detector Background							
Master: 18-Jun-2009 23:03 Before: 18-Aug-2009 15:52 After: 18-Aug-2009 23:56							
Near Det Bkg Cntrate	30.00	32.09	34.30	30.88	-3.418	N/A	CPS
Far Det Bkg Cntrate	30.00	31.69	32.14	33.72	1.576	N/A	CPS
Array-1 Det Bkg Cntrate	30.00	28.61	30.63	29.67	-0.9549	N/A	CPS
Array-2 Det Bkg Cntrate	30.00	30.40	29.70	30.21	0.5026	N/A	CPS
Array Therm Det Bkg Cntrate	30.00	32.33	30.32	30.50	0.1716	N/A	CPS
Accelerator-Porosity Tool Wellsite Calibration - Calibration Ratios							
Master: 18-Jun-2009 23:03							
Near/Far Calibration Ratio	0.9250	0.8852	N/A	N/A	N/A	N/A	
Near/Array Calibration Ratio	1.030	1.059	N/A	N/A	N/A	N/A	
Near/Array Cal Ratio Up/Down	1.000	1.008	N/A	N/A	N/A	N/A	
Accelerator-Porosity Tool Wellsite Calibration - Tank Check							
Master: 18-Jun-2009 23:03							
Array-1 Standoff Porosity	11.75	11.81	N/A	N/A	N/A	N/A	PU
Array-2 Standoff Porosity	11.75	11.56	N/A	N/A	N/A	N/A	PU
Average Slowing Down Time	6.000	5.860	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	1.006	N/A	N/A	N/A	N/A	
Sigma Formation	27.50	27.25	N/A	N/A	N/A	N/A	CU
Accelerator-Porosity Tool Wellsite Calibration - CCR7 signal boxes							
Master: 18-Jun-2009 23:03							
Near Detector Plateau Setting	1650	1733	N/A	N/A	N/A	N/A	V
Far Detector Plateau Setting	2000	2077	N/A	N/A	N/A	N/A	V
Array Detector Plateau Setting	2000	1966	N/A	N/A	N/A	N/A	V
Hostile Litho-Density Sonde Wellsite Calibration - Background Measurement							
Master: 30-Jun-2009 22:48 Before: 18-Aug-2009 15:52 After: 19-Aug-2009 0:46							
SS Cs Resolution Bkg	9.000	7.767	7.740	7.751	0.01079	1.800	%
LS Cs Resolution Bkg	9.000	7.963	8.160	8.120	-0.03943	1.800	%
LSW1 Background	100.0	92.51	92.69	92.96	0.2753	3.000	CPS
LSW2 Background	100.0	83.43	84.00	83.55	-0.4472	3.000	CPS
LSW3 Background	200.0	192.3	189.3	191.2	1.851	6.000	CPS
LSW4 Background	250.0	236.2	235.1	235.0	-0.07654	7.500	CPS
LSW5 Background	600.0	548.3	548.4	544.7	-3.680	18.00	CPS
SSW1 Background	100.0	90.55	90.67	89.44	-1.226	3.000	CPS
SSW2 Background	200.0	155.0	156.2	155.0	-1.237	6.000	CPS
SSW3 Background	500.0	433.9	429.5	431.9	2.377	15.00	CPS
SSW4 Background	270.0	232.2	231.8	231.2	-0.5577	8.100	CPS
SSW5 Background	200.0	167.8	165.1	165.0	-0.1062	6.000	CPS
Hostile Litho-Density Sonde Wellsite Calibration - Aluminum Measurement							
Master: 30-Jun-2009 22:48							
LSW1 Aluminum	600.0	554.7	N/A	N/A	N/A	N/A	CPS
LSW2 Aluminum	900.0	804.9	N/A	N/A	N/A	N/A	CPS

SSW2 Aluminum	588.0	966.0	N/A	N/A	N/A	N/A	N/A	CPS
LSW4 Aluminum	580.0	485.4	N/A	N/A	N/A	N/A	N/A	CPS
LSW5 Aluminum	570.0	446.3	N/A	N/A	N/A	N/A	N/A	CPS
SSW1 Aluminum	2800	2501	N/A	N/A	N/A	N/A	N/A	CPS
SSW2 Aluminum	8000	6891	N/A	N/A	N/A	N/A	N/A	CPS
SSW3 Aluminum	11600	9659	N/A	N/A	N/A	N/A	N/A	CPS
SSW4 Aluminum	5000	3955	N/A	N/A	N/A	N/A	N/A	CPS
SSW5 Aluminum	660.0	474.6	N/A	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Lithology Measurement

Master: 30-Jun-2009 22:48

LSW1 Iron	400.0	378.8	N/A	N/A	N/A	N/A	N/A	CPS
LSW2 Iron	730.0	651.5	N/A	N/A	N/A	N/A	N/A	CPS
LSW3 Iron	1000	856.2	N/A	N/A	N/A	N/A	N/A	CPS
LSW4 Iron	520.0	445.8	N/A	N/A	N/A	N/A	N/A	CPS
LSW5 Iron	470.0	411.6	N/A	N/A	N/A	N/A	N/A	CPS
SSW1 Iron	2100	1825	N/A	N/A	N/A	N/A	N/A	CPS
SSW2 Iron	6800	5726	N/A	N/A	N/A	N/A	N/A	CPS
SSW3 Iron	10800	8806	N/A	N/A	N/A	N/A	N/A	CPS
SSW4 Iron	4600	3618	N/A	N/A	N/A	N/A	N/A	CPS
SSW5 Iron	580.0	422.6	N/A	N/A	N/A	N/A	N/A	CPS

Hostile Litho-Density Sonde Wellsite Calibration - Caliper Calibration

Before: 16-Jul-2009 10:33

HLDS Caliper Small Ring	12.00	N/A	13.30	N/A	N/A	N/A	N/A	IN
HLDS Caliper Large Ring	15.19	N/A	16.70	N/A	N/A	N/A	N/A	IN

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 1 Check

Master: 19-Jun-2009 22:52 Before: 18-Aug-2009 15:53 After: 19-Aug-2009 0:47

Na 511 Peak Loc	40.00	39.80	39.67	39.61	-0.05349	1.000	
Na 511 Peak Res	15.50	15.76	14.85	14.86	0.008362	2.000	%
High Voltage	1150	1181	1142	1147	5.267	N/A	V
Na 1785 Peak Loc	142.6	142.6	143.1	142.5	-0.5837	7.000	
Na 1785 Peak Res	8.500	8.553	8.147	7.976	-0.1707	2.000	%
Temperature	15.50	32.22	13.66	14.42	0.7543	N/A	DEGC
Na Count Rate	45.00	37.08	36.31	36.45	0.1412	8.000	CPS

Hostile Natural Gamma Ray Sonde Wellsite Calibration - Detector 2 Check

Master: 19-Jun-2009 22:52 Before: 18-Aug-2009 15:53 After: 19-Aug-2009 0:47

Na 511 Peak Loc	40.00	39.62	39.54	39.64	0.09639	1.000	
Na 511 Peak Res	15.50	16.69	15.84	14.61	-1.232	2.000	%
High Voltage	1150	1114	1079	1081	2.457	N/A	V
Na 1785 Peak Loc	142.6	142.4	142.4	142.0	-0.3956	7.000	
Na 1785 Peak Res	8.500	8.478	8.222	8.881	0.6593	2.000	%
Temperature	15.50	32.71	13.80	16.14	2.338	N/A	DEGC
Na Count Rate	45.00	38.14	36.40	36.73	0.3349	8.000	CPS

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

Master: 19-Jun-2009 22:52 Before: 18-Aug-2009 15:53 After: 19-Aug-2009 0:47

Coincidence Count Rate Ratio	1.000	0.9751	0.9972	0.9917	-0.005419	0.05000	
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Accelerator-Porosity Tool - Detector Plateau Settings :

Near Detector Plateau Setting 1733 V  
Far Detector Plateau Setting 2077 V  
Array Detector Plateau Setting 1966 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

Dual Induction - E Wellsite Calibration

Induction Electronics (10 kHz)

Phase	ID Elect Real Offset 10 kHz MM/M	Value	Phase	ID Elect Real Gain 10 kHz	Value	Phase	ID Elect Phase 10 kHz DEG	Value
Before		30.01	Before		0.9407	Before		8.951
	-300.0 (Minimum) 0 (Nominal) 300.0 (Maximum)			0.8500 (Minimum) 1.000 (Nominal) 1.200 (Maximum)			-10.00 (Minimum) 0 (Nominal) 10.00 (Maximum)	
Phase	ID Elect Quad Offset 10 kHz MM/M	Value	Phase	ID Elect Quad Gain 10 kHz	Value	Phase	ID Elect Phase 10 kHz DEG	Value

Phase	ID Elect Quad Offset 10 kHz	MM/M	Value	Phase	ID Elect Quad Gain 10 kHz	Value	Phase	IM Elect Phase 10 kHz DEG	Value		
Before			25.69	Before		0.9559	Before		8.760		
	-300.0 (Minimum)	0 (Nominal)	300.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-10.00 (Minimum)	0 (Nominal)	10.00 (Maximum)
Phase	IM Elect Real Offset 10 kHz	MM/M	Value	Phase	IM Elect Real Gain 10 kHz	Value					
Before			83.37	Before		0.9490					
	-550.0 (Minimum)	0 (Nominal)	550.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)				
Phase	IM Elect Quad Offset 10 kHz	MM/M	Value	Phase	IM Elect Quad Gain 10 kHz	Value					
Before			44.00	Before		0.9300					
	-550.0 (Minimum)	0 (Nominal)	550.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)				

Before: 18-Aug-2009 18:33

Dual Induction - E Wellsite Calibration											
Induction Electronics (20 kHz)											
Phase	ID Elect Real Offset 20 kHz	MM/M	Value	Phase	ID Elect Real Gain 20 kHz	Value	Phase	ID Elect Phase 20 kHz DEG	Value		
Before			11.87	Before		0.9677	Before		3.950		
	-125.0 (Minimum)	0 (Nominal)	125.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-15.00 (Minimum)	0 (Nominal)	15.00 (Maximum)
Phase	ID Elect Quad Offset 20 kHz	MM/M	Value	Phase	ID Elect Quad Gain 20 kHz	Value	Phase	IM Elect Phase 20 kHz DEG	Value		
Before			10.39	Before		0.9858	Before		4.346		
	-125.0 (Minimum)	0 (Nominal)	125.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-15.00 (Minimum)	0 (Nominal)	15.00 (Maximum)
Phase	IM Elect Real Offset 20 kHz	MM/M	Value	Phase	IM Elect Real Gain 20 kHz	Value					
Before			34.21	Before		0.9922					
	-225.0 (Minimum)	0 (Nominal)	225.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)				
Phase	IM Elect Quad Offset 20 kHz	MM/M	Value	Phase	IM Elect Quad Gain 20 kHz	Value					
Before			18.15	Before		0.9723					
	-225.0 (Minimum)	0 (Nominal)	225.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)				

Before: 18-Aug-2009 18:34

Dual Induction - E Wellsite Calibration											
Induction Electronics (40 kHz)											
Phase	ID Elect Real Offset 40 kHz	MM/M	Value	Phase	ID Elect Real Gain 40 kHz	Value	Phase	ID Elect Phase 40 kHz DEG	Value		
Before			7.721	Before		0.9480	Before		14.31		
	-85.00 (Minimum)	0 (Nominal)	85.00 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-20.00 (Minimum)	0 (Nominal)	20.00 (Maximum)
Phase	ID Elect Quad Offset 40 kHz	MM/M	Value	Phase	ID Elect Quad Gain 40 kHz	Value	Phase	IM Elect Phase 40 kHz DEG	Value		
Before			6.916	Before		0.9747	Before		14.11		
	-85.00 (Minimum)	0 (Nominal)	85.00 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)		-20.00 (Minimum)	0 (Nominal)	20.00 (Maximum)
Phase	IM Elect Real Offset 40 kHz	MM/M	Value	Phase	IM Elect Real Gain 40 kHz	Value					
Before			21.96	Before		0.9898					
	-130.0 (Minimum)	0 (Nominal)	130.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)				
Phase	IM Elect Quad Offset 40 kHz	MM/M	Value	Phase	IM Elect Quad Gain 40 kHz	Value					
Before			11.70	Before		0.9696					
	-130.0 (Minimum)	0 (Nominal)	130.0 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)				

Before: 18-Aug-2009 18:35

Dual Induction - E Wellsite Calibration							
SFL Electronics							
Phase	SFL Voltage Offset	MV	Value	Phase	SFL Voltage Gain	Value	
Before			0.1356	Before		0.9954	
	-15.00 (Minimum)	0 (Nominal)	15.00 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)
Phase	SFL Current Offset	MA	Value	Phase	SFL Current Gain	Value	
Before			0.03358	Before		1.006	
	-0.6000 (Minimum)	0 (Nominal)	0.6000 (Maximum)		0.8500 (Minimum)	1.000 (Nominal)	1.200 (Maximum)

Before: 18-Aug-2009 18:35



Phase	Array-1 Standoff Porosity PU	Value	Phase	Array-2 Standoff Porosity PU	Value	Phase	Average Slowing Down Time US	Value
Master		11.81	Master		11.56	Master		5.860
	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		0.9891	Master		1.006	Master		27.25
	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: 18-Jun-2009 23:03

### 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

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		7.767	Master		7.963	Master		92.51
Before		7.740	Before		8.160	Before		92.69
After		7.751	After		8.120	After		92.96
	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		83.43	Master		192.3	Master		236.2
Before		84.00	Before		189.3	Before		235.1
After		83.55	After		191.2	After		235.0
	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		548.3	Master		90.55	Master		155.0
Before		548.4	Before		90.67	Before		156.2
After		544.7	After		89.44	After		155.0
	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		433.9	Master		232.2	Master		167.8
Before		429.5	Before		231.8	Before		165.1
After		431.9	After		231.2	After		165.0
	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: 30-Jun-2009 22:48

Before: 18-Aug-2009 15:52

After: 19-Aug-2009 0:46

### Litho-Density Spectroscopy Cartridge - B / Equipment Identification

**Primary Equipment:**

LDSC Cartridge	LDSC - B	326
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**Auxiliary Equipment:**

LDSC Housing	LDSH - A	319
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### Hostile Natural Gamma Ray Cartridge - B / Equipment Identification

Primary Equipment:  
HNGC Cartridge  
Auxiliary Equipment:  
HNGC Housing

HNGC - B 300  
HNGH - A 115

Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:  
HNGS Sonde

HNGS - BA 194

Auxiliary Equipment:  
HNGS Sonde Housing  
Gamma Source Radioactive

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		39.80	Master		15.76	Master		1181
Before		39.67	Before		14.85	Before		1142
After		39.61	After		14.86	After		1147
	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		142.6	Master		8.553	Master		32.22
Before		143.1	Before		8.147	Before		13.66
After		142.5	After		7.976	After		14.42
	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		37.08						
Before		36.31						
After		36.45						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							

Master: 19-Jun-2009 22:52

Before: 18-Aug-2009 15:53

After: 19-Aug-2009 0:47

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		39.62	Master		16.69	Master		1114
Before		39.54	Before		15.84	Before		1079
After		39.64	After		14.61	After		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		142.4	Master		8.478	Master		32.71
Before		142.4	Before		8.222	Before		13.80
After		142.0	After		8.881	After		16.14
	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		38.14						
Before		36.40						
After		36.73						
	10.00 (Minimum) 45.00 (Nominal) 100.0 (Maximum)							

Master: 19-Jun-2009 22:52

Before: 18-Aug-2009 15:53

After: 19-Aug-2009 0:47



Hostile Natural Gamma Ray Sonde Wellsite Calibration		
Ratio Of Detector 1 To Detector 2		
Phase	Coincidence Count Rate Ratio	Value
Master		0.9751
Before		0.9972
After		0.9917
	0.9500 (Minimum)      1.000 (Nominal)      1.050 (Maximum)	
Master: 19-Jun-2009 22:52		
Before: 18-Aug-2009 15:53		
After: 19-Aug-2009 0:47		

DTS Telemetry Tool / Equipment Identification

Primary Equipment:

DTC-H Auxiliary Cartridge  
DTC-H Telemetry Cartridge

DTCH - A  
DTCH - A      8798

Auxiliary Equipment:

DTCH Telemetry Cartridge Housing

ECH - KC      2304

Company: Lamont Doherty

**Schlumberger**

Well: Expedition 323 Site U1344A

Field: Bering Sea

Rig: JOIDES Resolution

Country: USA

Natural Gamma Spectroscopy