

# Schlumberger

Company: Lamont Doherty

Well: IODP EXP 304 Site 1309D

Field: Atlantis Massif

Country: Mid Atlantic Ridge      Ocean: Atlantic Ocean

**APS/HLDS Porosity**

Country: Mid Atlantic Ridge  
 Field: Atlantis Massif  
 Location: Rig- Joides Resolution  
 Well: IODP EXP 304 Site 1309D  
 Company: Lamont Doherty

LOCATION		Rig- Joides Resolution	Elev.:   K.B.   11.3 m G.L.   -1656 m D.F.    11 m
Permanent Datum:	GROUND LEVEL	Elev.:   0 m	
Log Measured From:      DES		11.3 m above Perm. Datum	
Drilling Measured From:   DES			
API Serial No.	Max. Hole Devi.	Longitude 42.11865 W	Latitude 30.16847 N

Logging Date	Run 1	Run 2	Run
Run Number			
Depth Driller			
Schlumberger Depth			
Bottom Log Interval			
Top Log Interval			
Casing Driller Size @ Depth	@		
Casing Schlumberger			
Bit Size			
Type Fluid In Hole			
Density			
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			
Logger On Bottom      Time			
Unit Number      Location			
Recorded By			
Witnessed By			

Logging Date	
Run Number	1
Depth Driller	2057.3 m
Schlumberger Depth	2057 m
Bottom Log Interval	2053 m
Top Log Interval	1690 m
Casing Driller Size @ Depth	@   1710 m
Casing Schlumberger	1710 m
Bit Size	9.875 in
Type Fluid In Hole	Fresh Water
Density	1.066 g/cm3
Fluid Loss	0 cm3
PH	
Source Of Sample	
RM @ Measured Temperature	@   0.322 ohm.m   @   23 degC
RMF @ Measured Temperature	@
RMC @ Measured Temperature	@
Source RMF      RMC	
RM @ MRT      RMF @ MRT	0.455   @   10      @   10
Maximum Recorded Temperatures	10 degC
Circulation Stopped      Time	1/1/05      0400
Logger On Bottom      Time	See Log
Unit Number      Location	99      Houston
Recorded By	Steve Kittredge
Witnessed By	Florence Einaudi

Logging Date	
Run Number	
Depth Driller	
Schlumberger Depth	
Bottom Log Interval	
Top Log Interval	
Casing Driller Size @ Depth	@
Casing Schlumberger	
Bit Size	
Type Fluid In Hole	
Density	
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	
Logger On Bottom      Time	
Unit Number      Location	
Recorded By	
Witnessed By	

**DISCLAIMER**

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OTHER SERVICES1 OS1: MESTB/DSI/SGTN OS2: OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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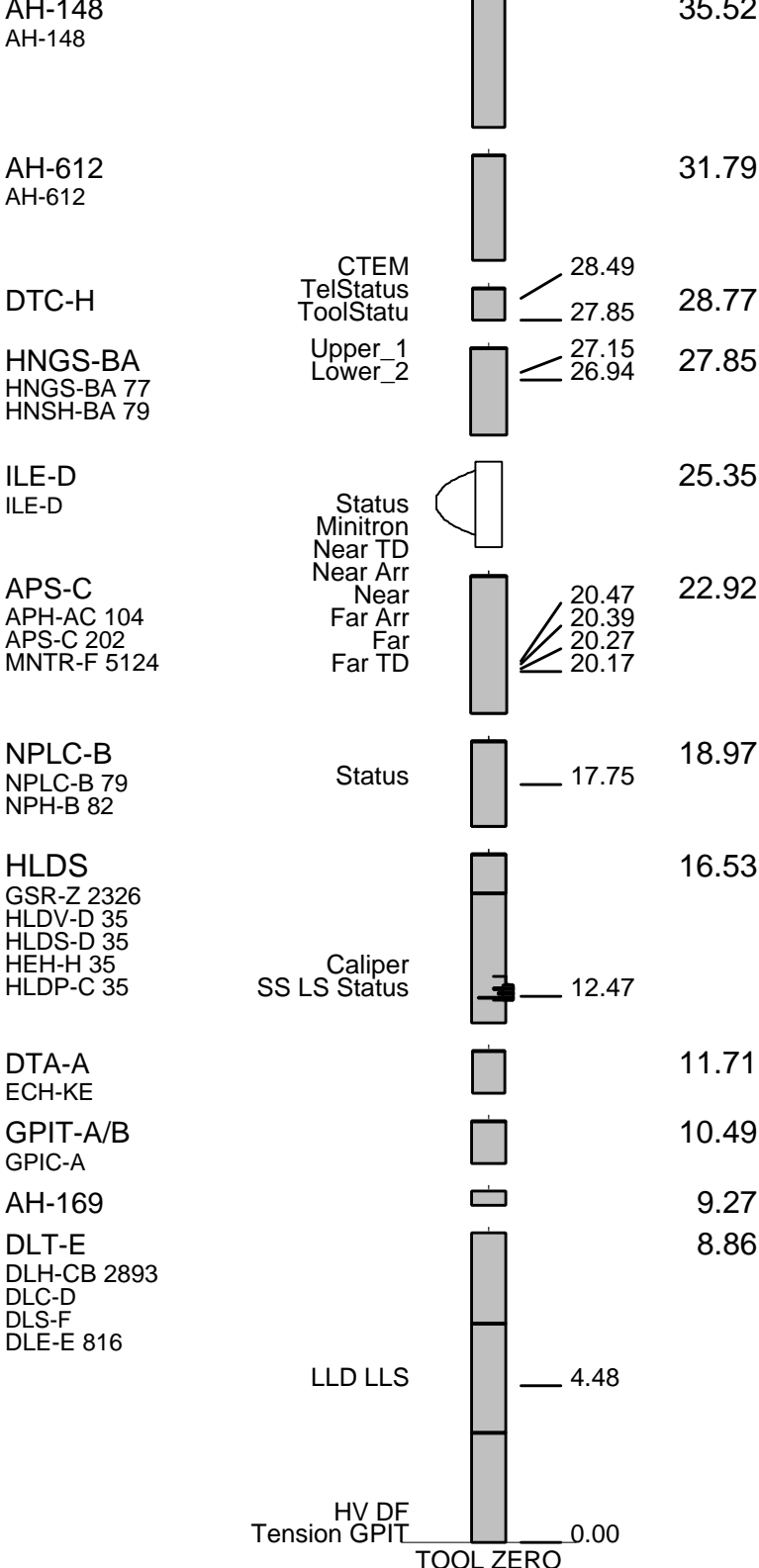
REMARKS: RUN NUMBER 1 Hole Cored with RCB All depths in Meters Below Rig Floor (MBRF). HOLE FLUSHED WITH FRESH WATER. Sea Floor Driller- 1656 MBRF. Sea Floor Logger- 1656 MBRF. Total Depth Driller- 2057.3 MBRF. Total Depth Logger- 2057 MBRF. Casing Bottom Driller- 1710 MBRF. Casing Bottom Logger- 1710 MBRF.	REMARKS: RUN NUMBER 2
---	-----------------------

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

**EQUIPMENT DESCRIPTION**

RUN 1		RUN 2	
<b>SURFACE EQUIPMENT</b> LCM-AA SFT-281 6250 SFT-178 6250 GSR-U 135 WITM (DTS)-A			

<b>DOWNHOLE EQUIPMENT</b>	
BSP BRT-S	60.80
SP SPARC	39.74
LEH-QT	36.41



TOOL ZERO

MAXIMUM STRING DIAMETER 3.88 IN  
 MEASUREMENTS RELATIVE TO TOOL ZERO  
 ALL LENGTHS IN METERS

## Output DLIS Files

DEFAULT      DLL\_LDL\_APS\_NGS\_030LUP      FN:22      PRODUCER      02-Jan-2005 11:02      2057.4 M      1690.4 M

OP System Version: 12C0-301  
MCM

Main Up Log

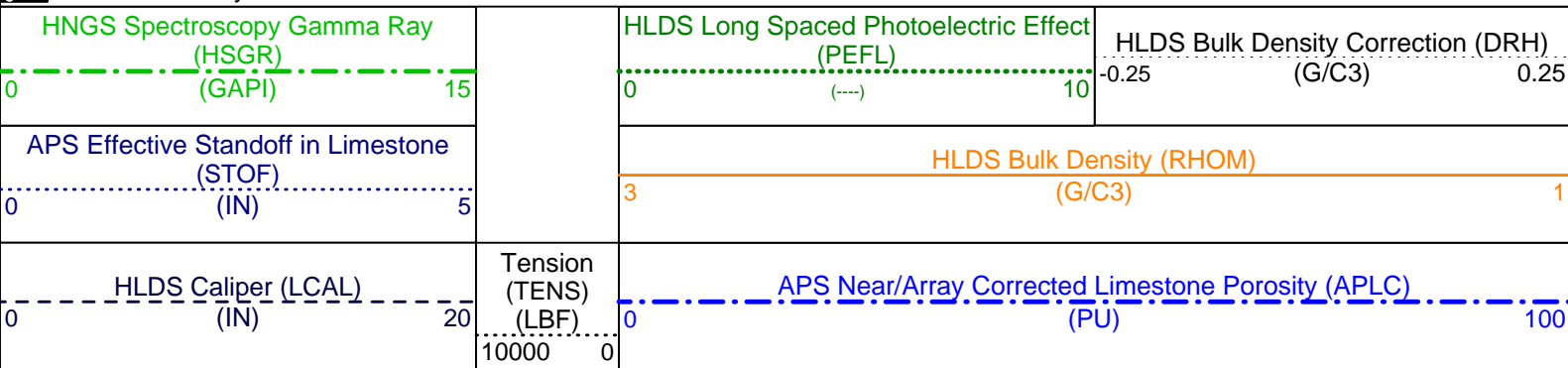
DLT-E	12C0-301	GPIT-A/B	12C0-301
DTA-A	12C0-301	HLDS	12C0-301
NPLC-B	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTC-H	12C0-301
BSP	12C0-301		

## Changed Parameter Summary

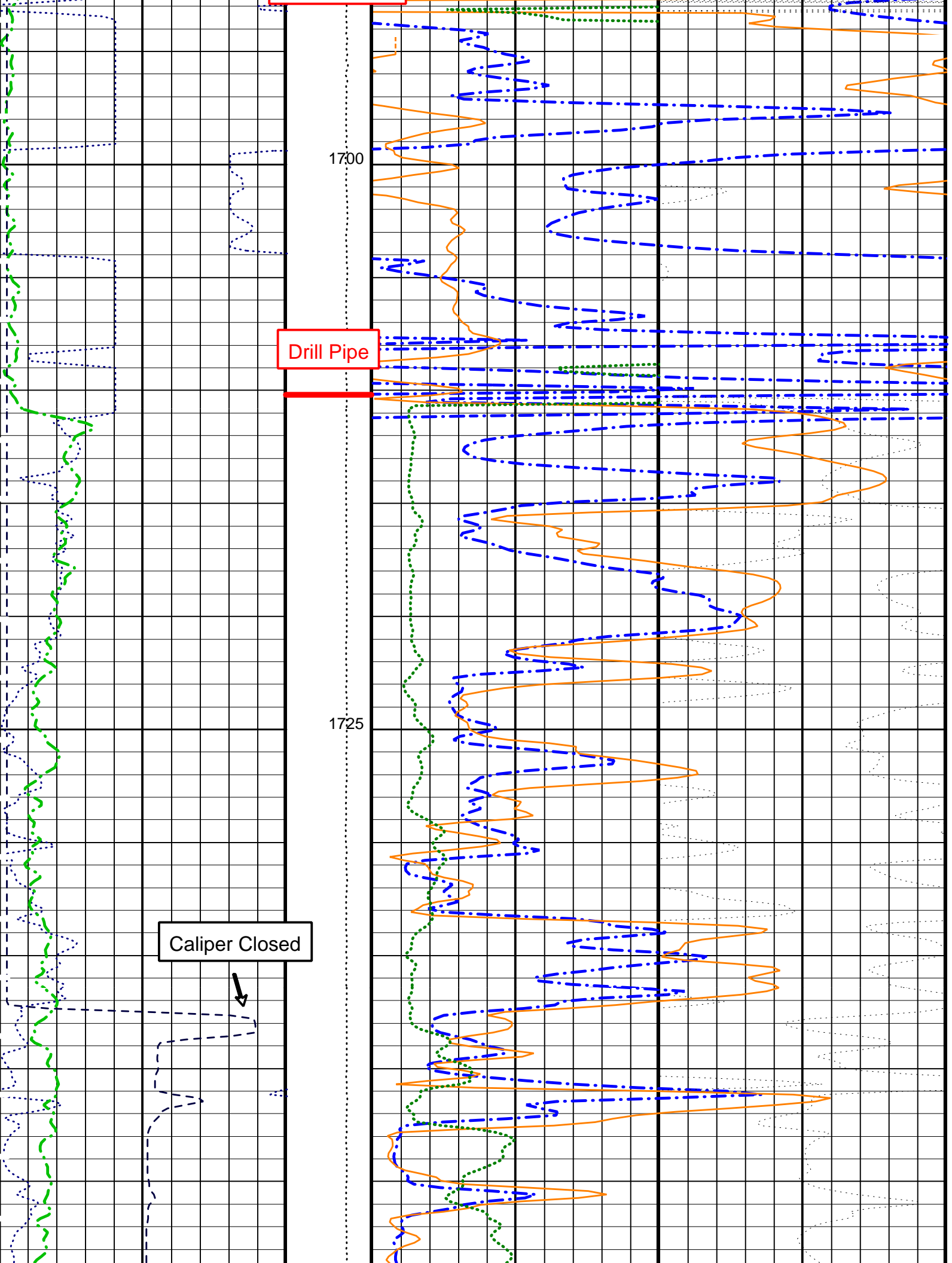
DLIS Name	New Value	Previous Value	Depth & Time
GCSE	BS	LCAL	1750.0 12:20:54
LLOO	OFF	BOTH	2057.2 11:06:06
	BOTH	OFF	2056.8 11:06:27
	OFF	BOTH	1750.2 12:20:40
	BOTH	OFF	1749.8 12:21:31
	OFF	BOTH	1703.3 12:39:12

### PIP SUMMARY

Time Mark Every 60 S



Last Reading



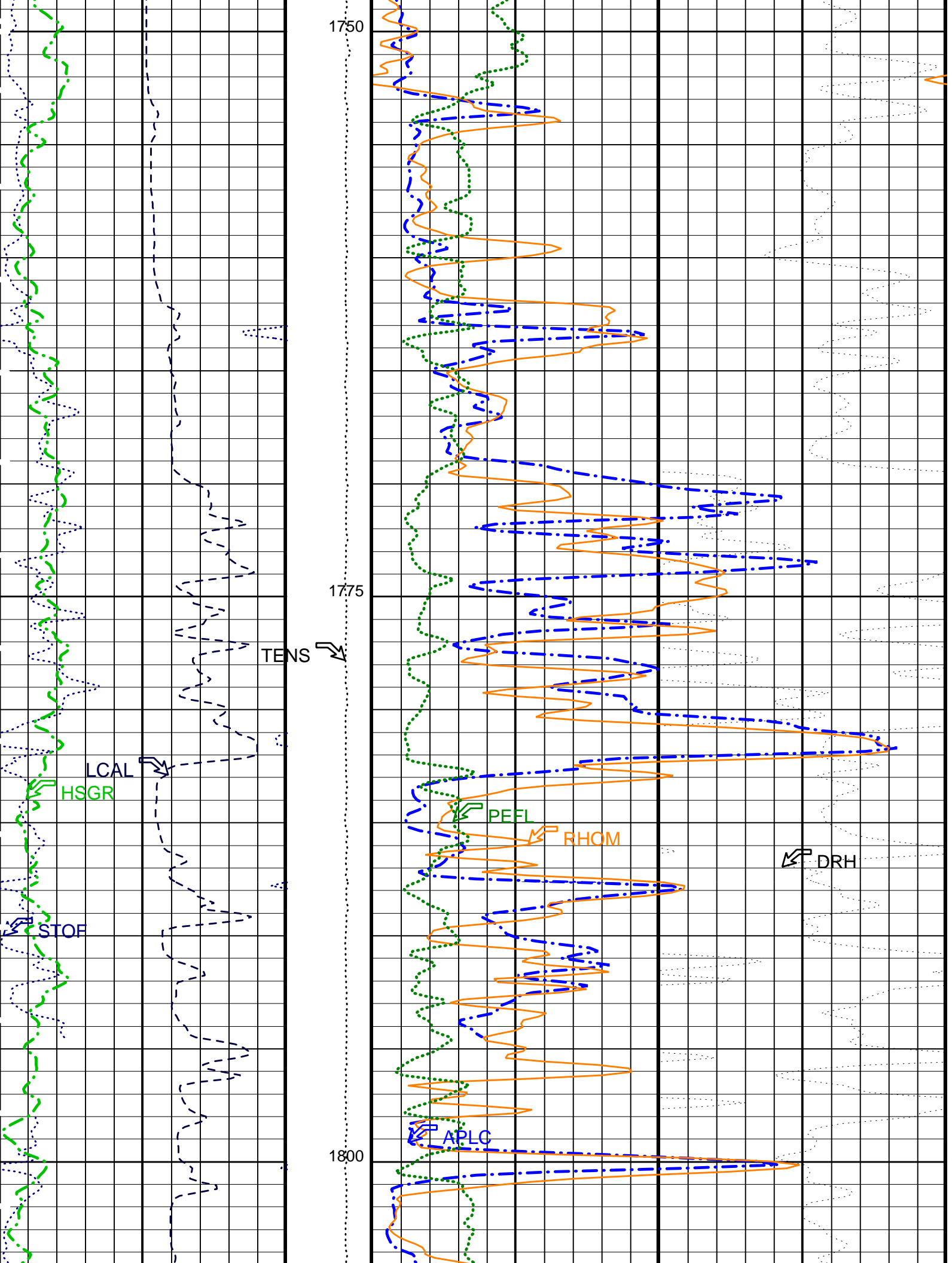
1700

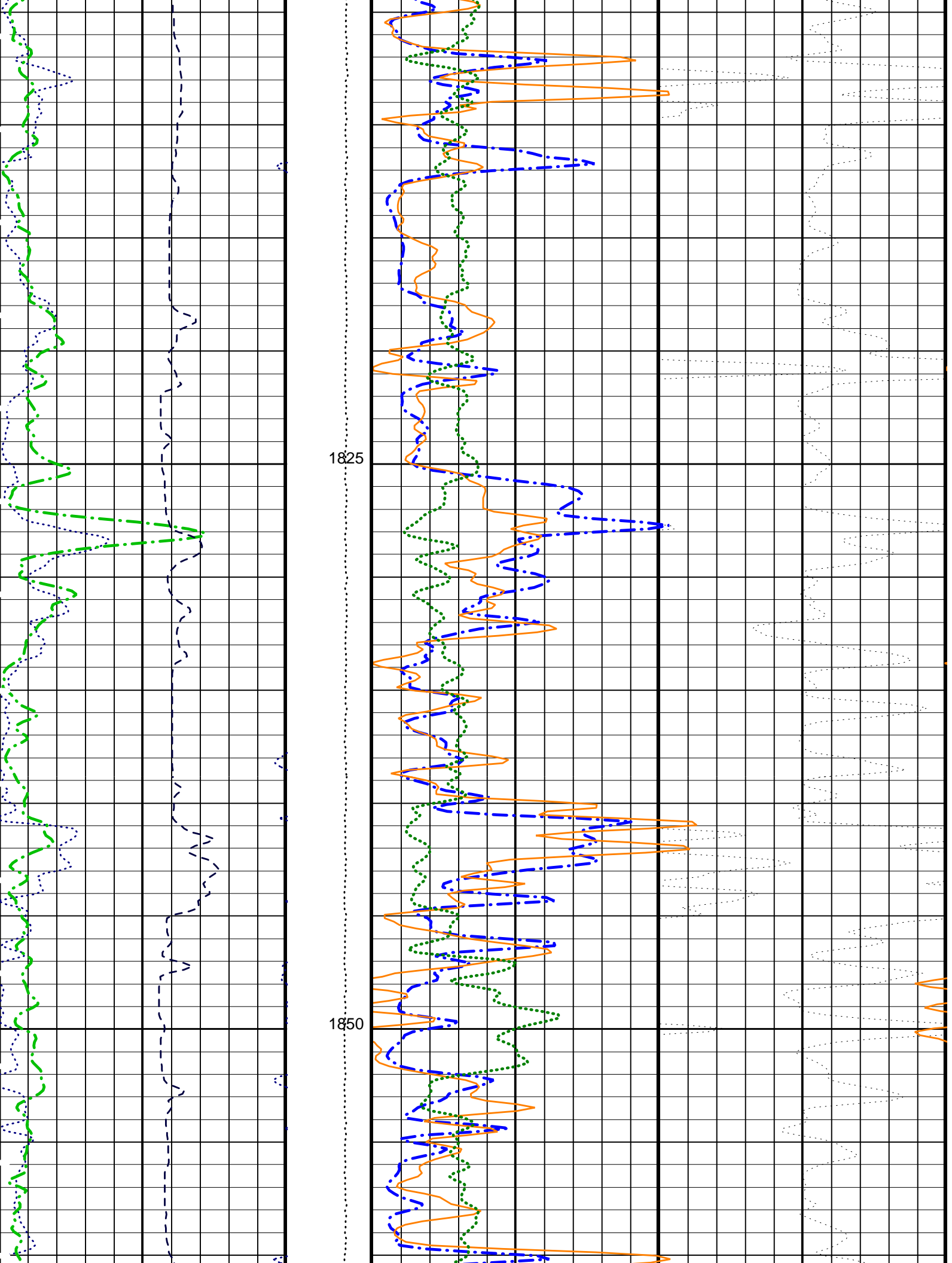
Drill Pipe

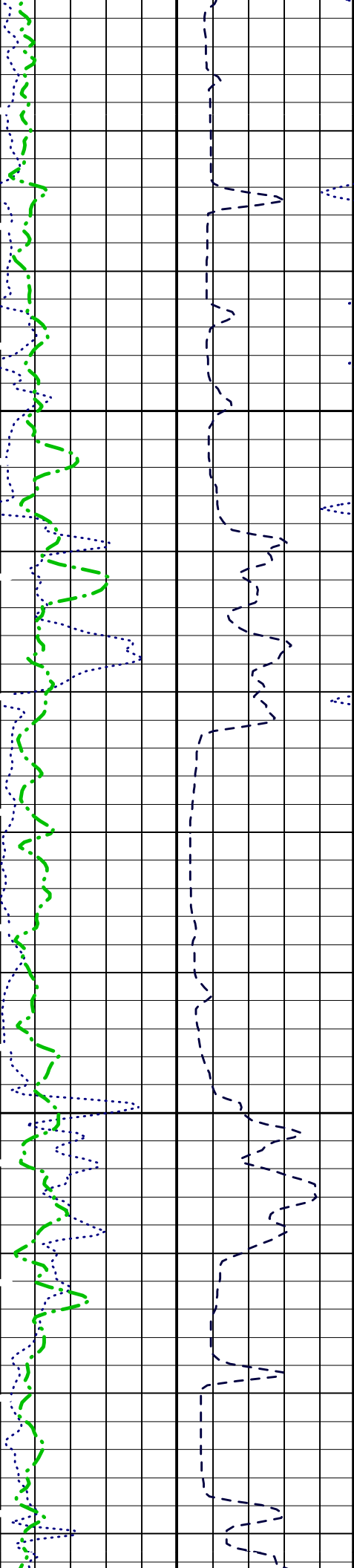
1725

Caliper Closed



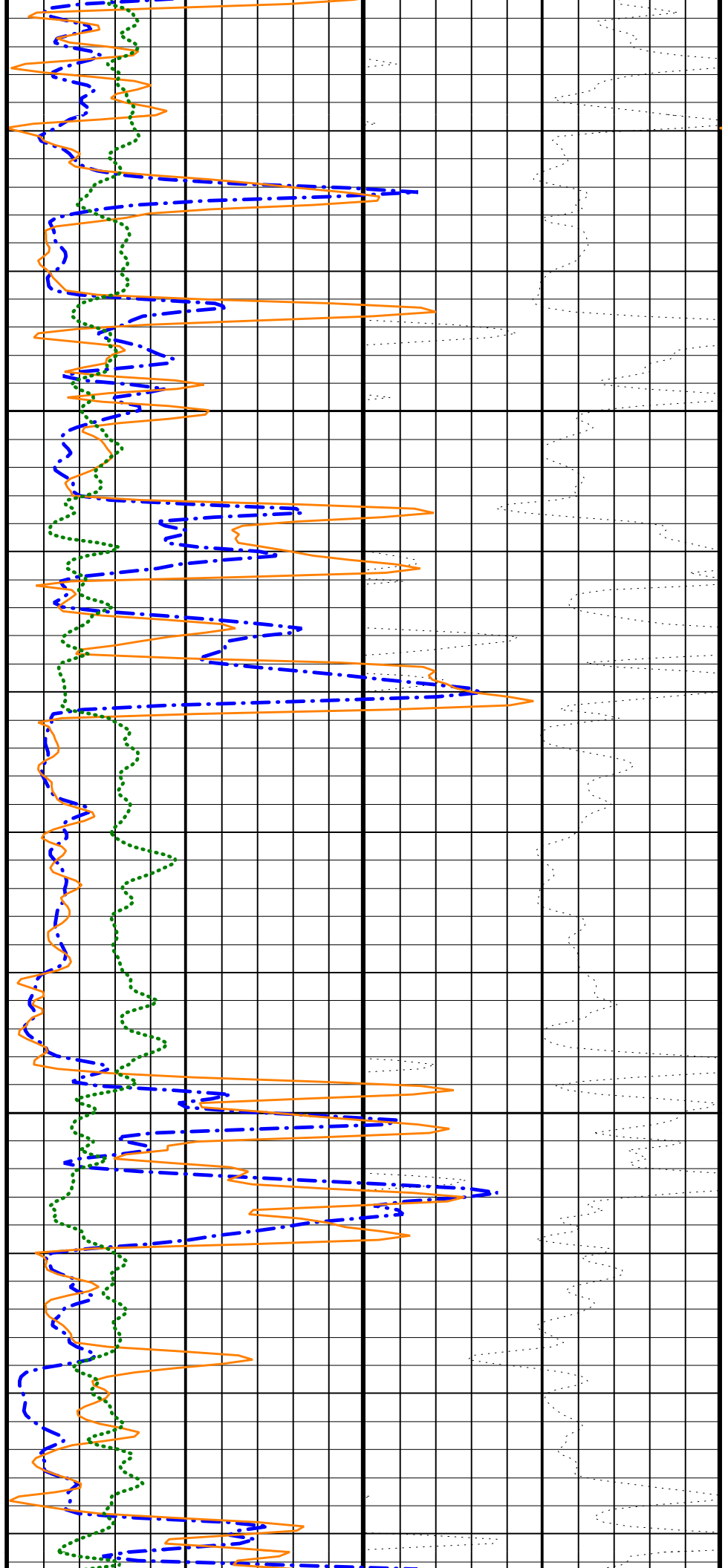




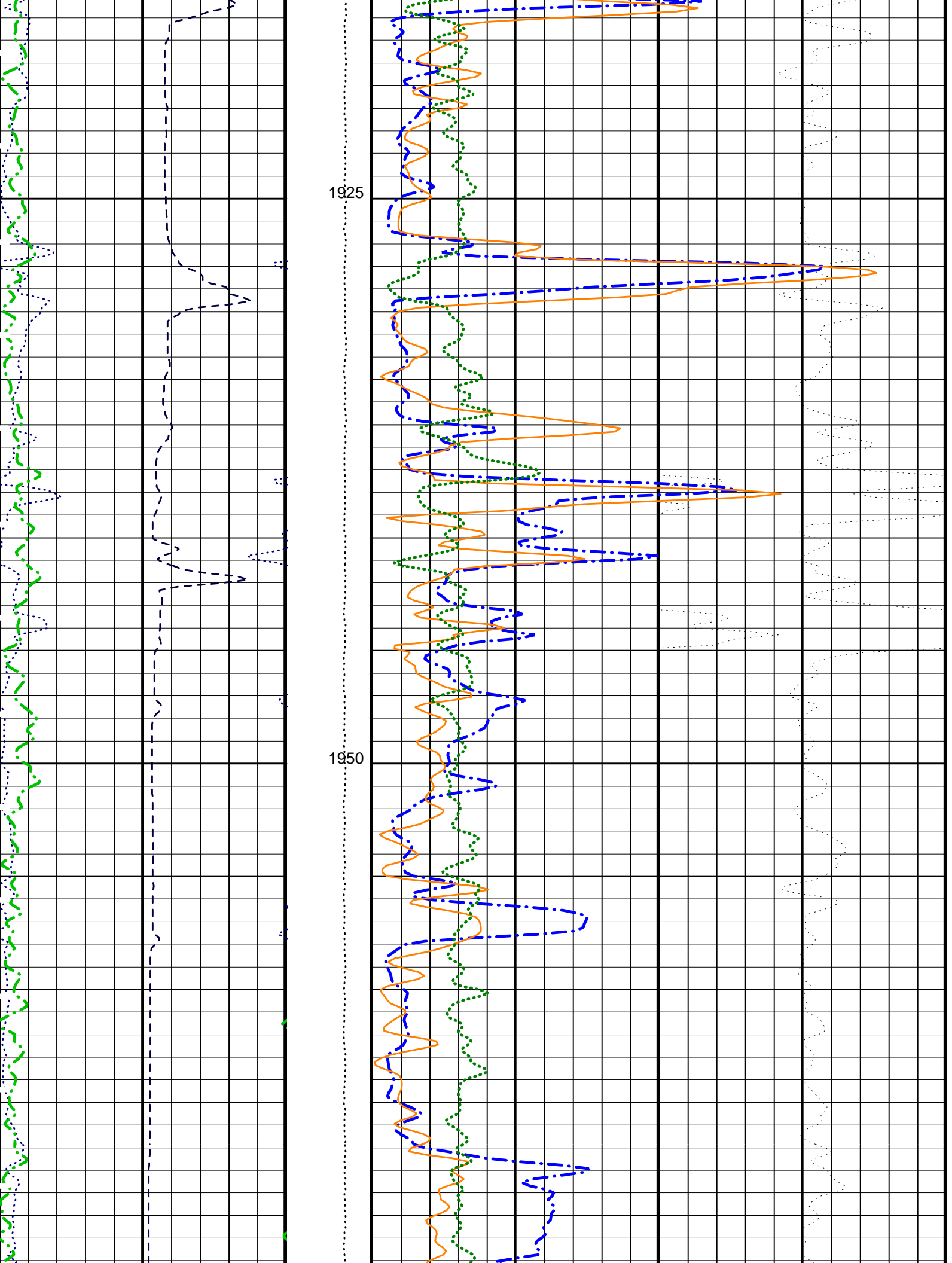


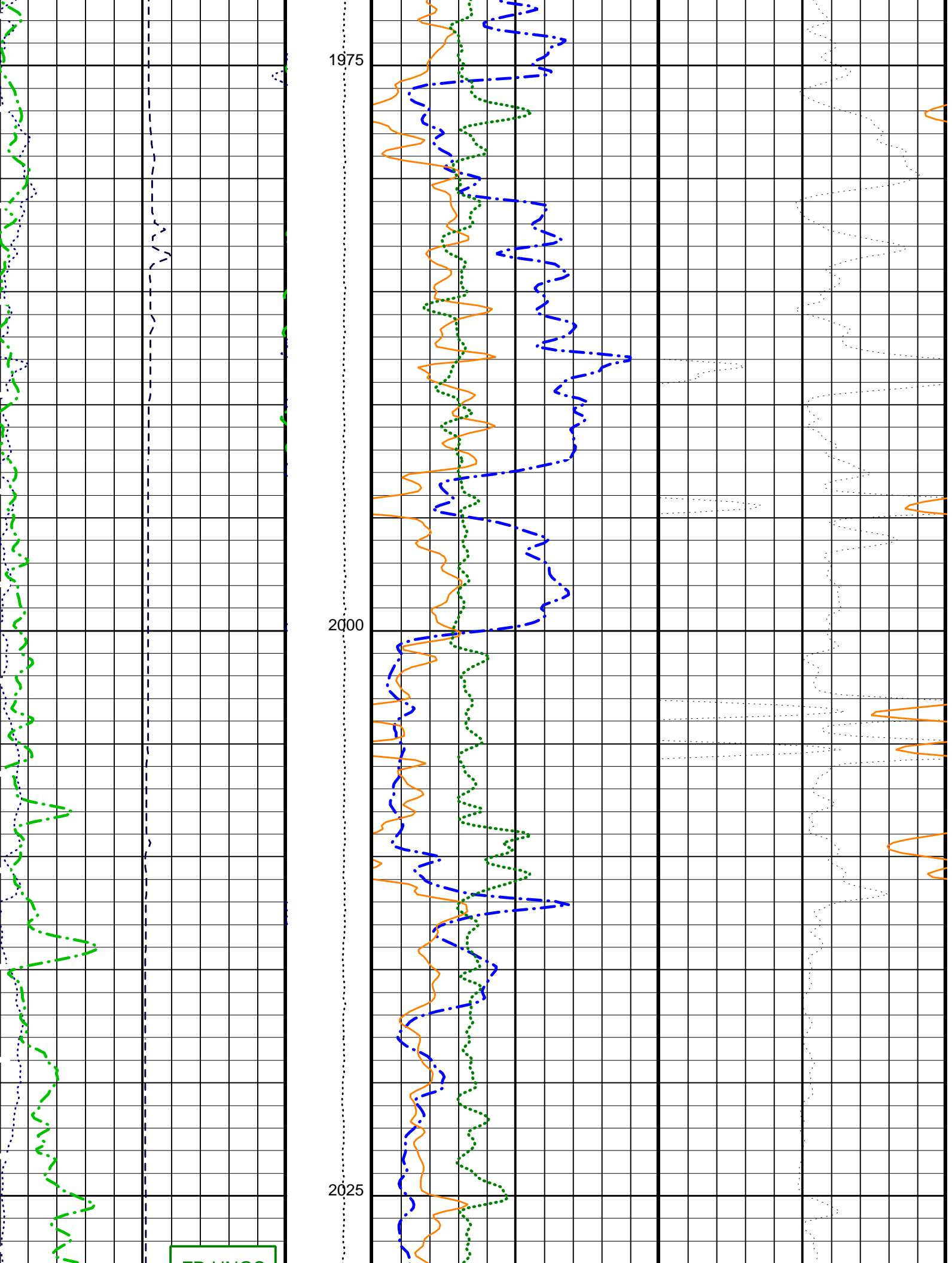
1875

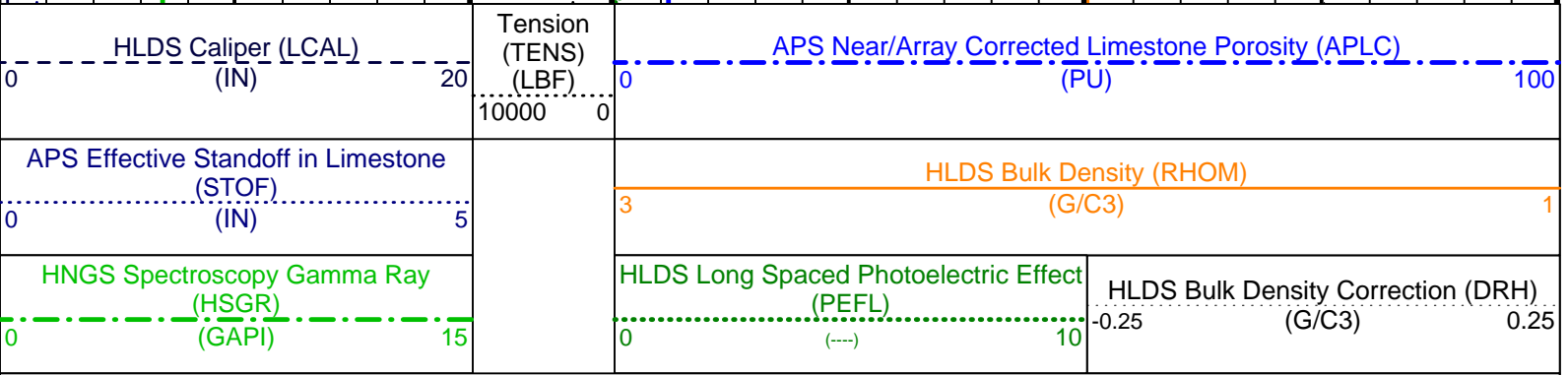
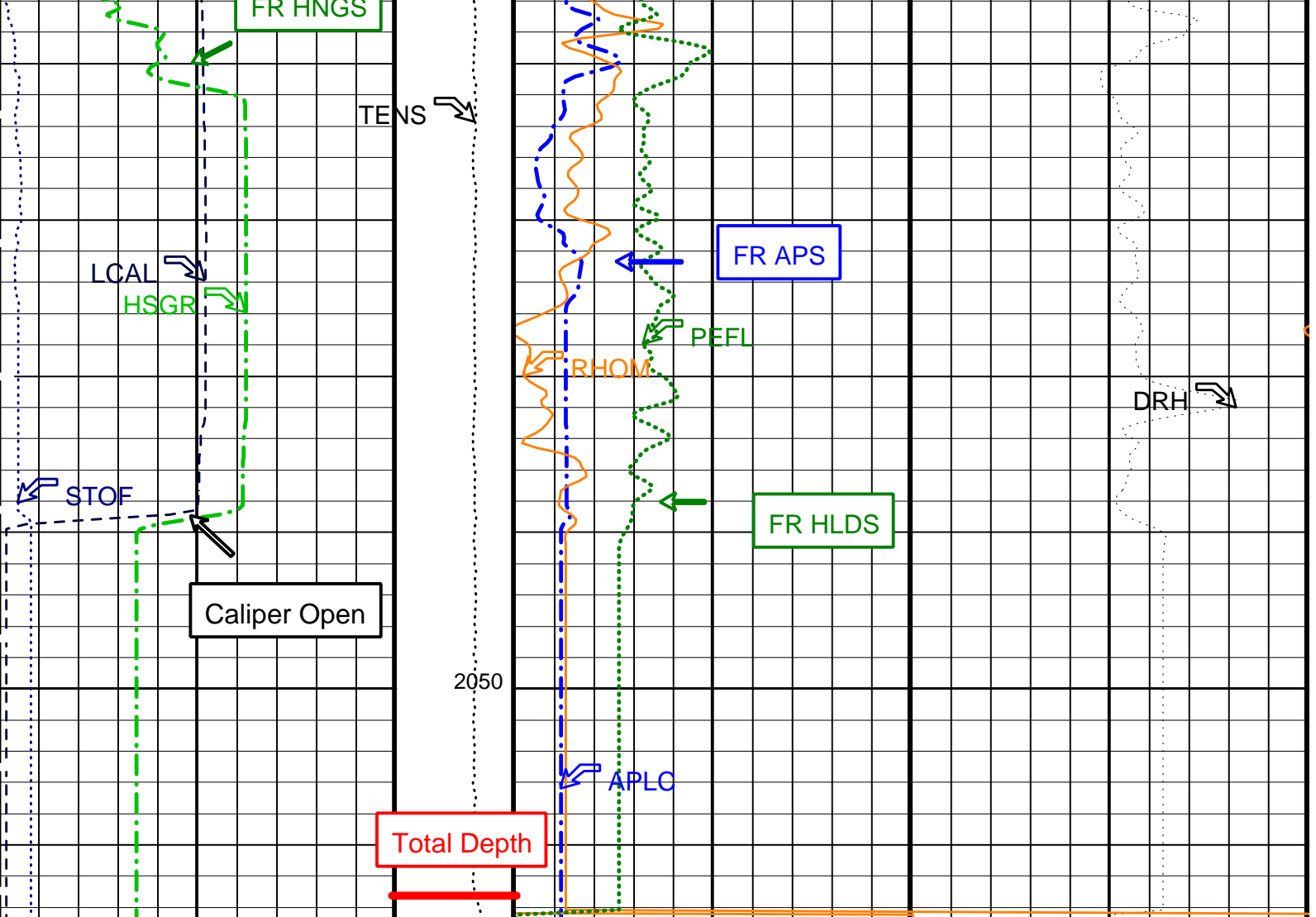
1900











PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DLT-E: DUAL LATEROLOG - E			
DPRF	DEEP REFERENCE POWER	550	NW
KFAC	K FACTOR	SOND	
LLOO	LATEROLOG LOOP	BOTH	
PLRM	POWER LOOP REFERENCE MODE	DEEP	
SPRF	SHALLOW REFERENCE POWER	550	NW
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	-15.6914	DEG
MRTE	Magneto Reference Temperature	25	DEGC
TEMS	GPIT Temperature Sensor Used	BOTH	

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	ON	
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	16000	
PSDS	HLDS SS Pulse Shape Compensation DAC	16000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
NPLC-B: Nuclear Porosity Lithology Cartridge - B			
NOTS	NPLC Old Temperature Sensor	NO	
APS-C: Accelerator-Porosity Tool			
	APS Software Version	5	
AASD	APS Thermal and Array Detectors High Voltage Setting	1971.68	V
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2078.39	V
AHCS	APS Holesize Correction Source	GCSE	
AHSS	APS Holesize Correction Switch	ON	
AMTY	APS Environmental Corrections Mud Type	WaterBaseBarite	
ANSD	APS Near Detector High Voltage Setting	1740.46	V
ASOS	APS Standoff Correction Switch	ON	
ATSS	APS Temperature-Pressure-Salinity Correction Switch	OFF	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGC
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	35000	PPM
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
NARC	APS Near/Array Calibration Ratio	0.991528	
NFRC	APS Near/Far Calibration Ratio	0.963658	
SHT	Surface Hole Temperature	20	DEGC
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)	35	DEGC
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	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
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	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0	
BSP: Bridle SP			
SPNV	SP Next Value	0	MV
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGC
FCD	Future Casing (Outer) Diameter	0	IN
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG

GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	55.00	M
TDL	Total Depth - Logger	55.00	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	35000.00	PPM
CSIZ	Current Casing Size	0.000	IN
CWEI	Casing Weight	0.00	LB/F
DFD	Drilling Fluid Density	1.07	G/C3
MST	Mud Sample Temperature	23.00	DEGC
PBVADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	2057.3	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: APS\_HLDS\_PORO Vertical Scale: 1:200 Graphics File Created: 02-Jan-2005 11:02

### OP System Version: 12C0-301

MCM

DLT-E	12C0-301	GPIT-A/B	12C0-301
DTA-A	12C0-301	HLDS	12C0-301
NPLC-B	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTC-H	12C0-301
BSP	12C0-301		

### Output DLIS Files

DEFAULT DLL\_LDL\_APS\_NGS\_030LUP FN:22 PRODUCER 02-Jan-2005 11:02

### Output DLIS Files

DEFAULT DLL\_LDL\_APS\_NGS\_031LUP FN:23 PRODUCER 02-Jan-2005 12:51 2057.4 M 1942.8 M

### OP System Version: 12C0-301

MCM

Repeat Up Log

DLT-E	12C0-301	GPIT-A/B	12C0-301
DTA-A	12C0-301	HLDS	12C0-301
NPLC-B	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTC-H	12C0-301
BSP	12C0-301		

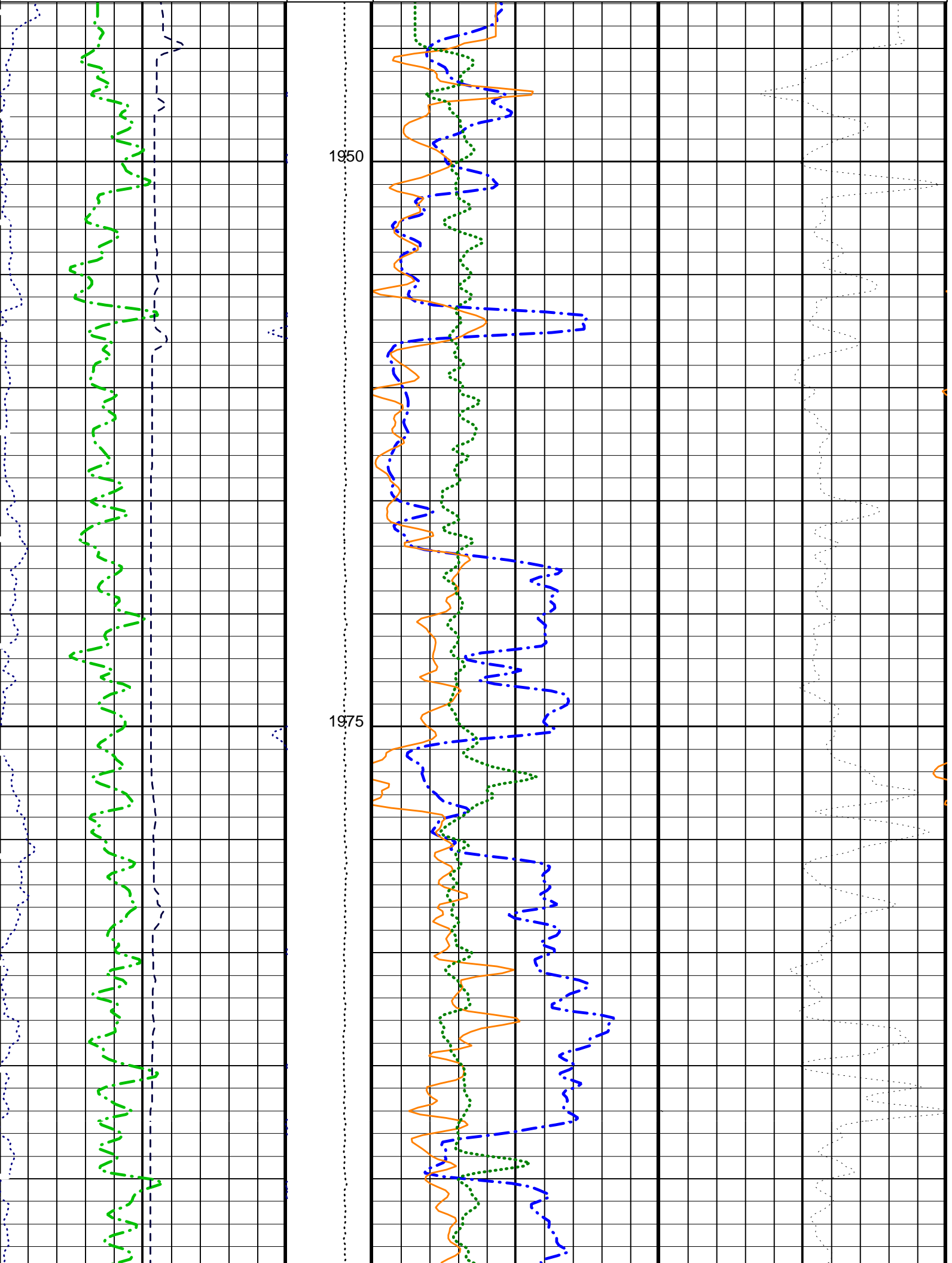
### Changed Parameter Summary

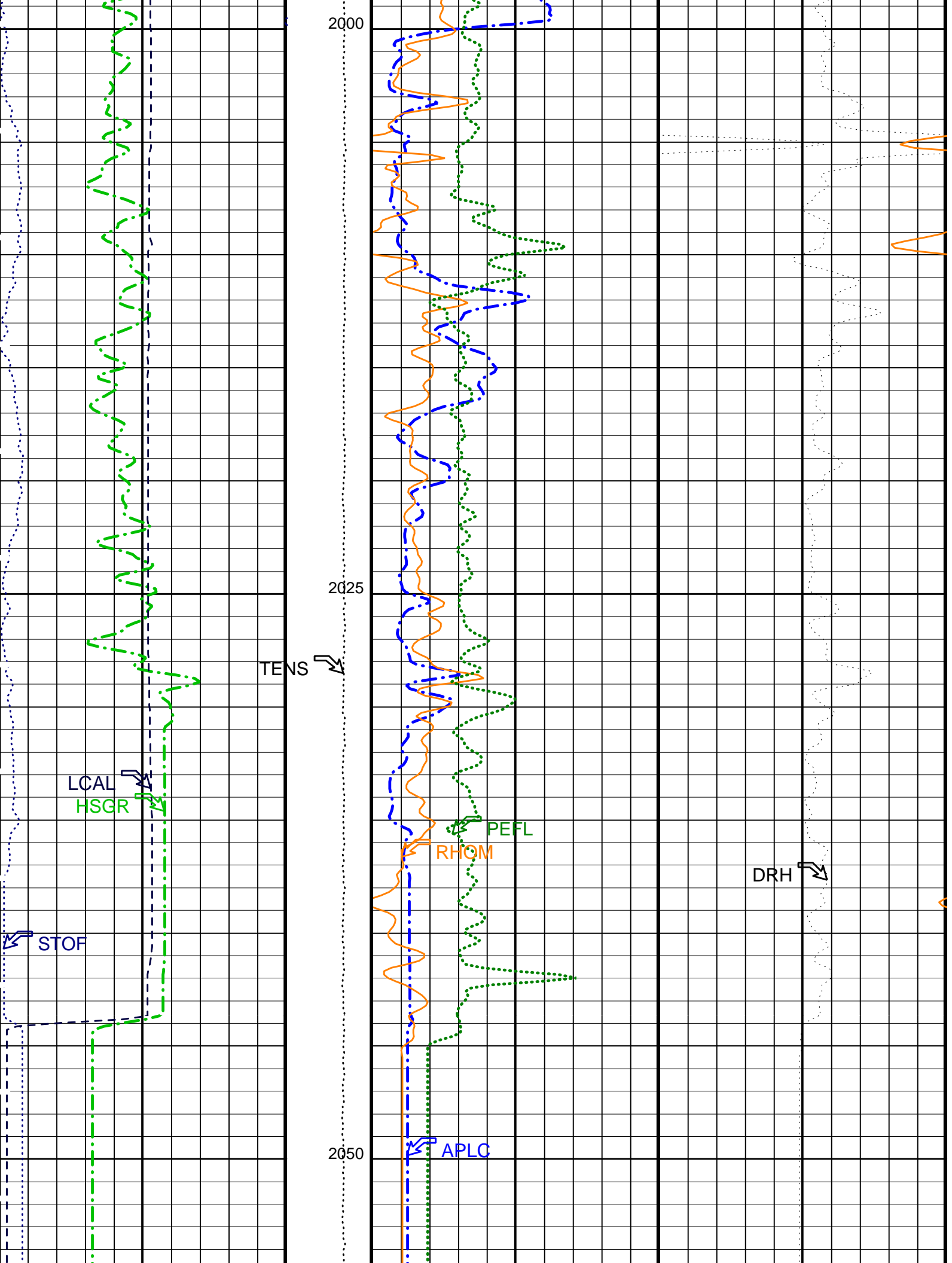
DLIS Name	New Value	Previous Value	Depth & Time
LLOO	OFF BOTH	BOTH OFF	2056.7 12:58:59 2056.0 12:59:44

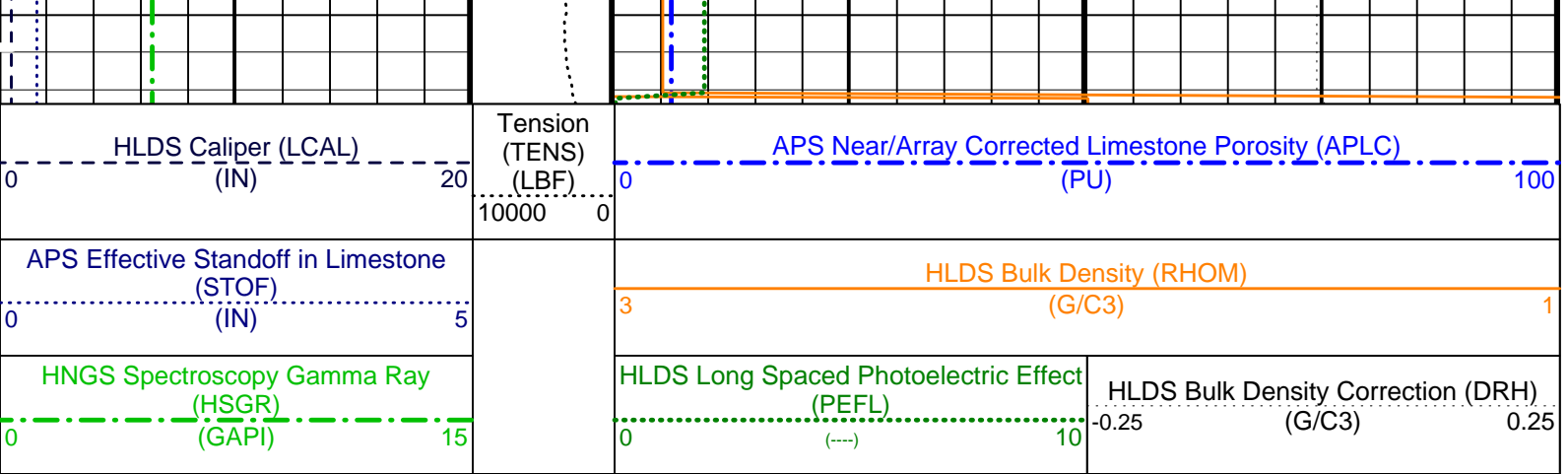
### PIP SUMMARY

Time Mark Every 60 S

<b>HNGS Spectroscopy Gamma Ray</b> (HSGR) (GAPI)	<b>HLDS Long Spaced Photoelectric Effect</b> (PEFL) (---)	<b>HLDS Bulk Density Correction (DRH)</b> (G/C3)
0 15	0 10	-0.25 0.25
<b>APS Effective Standoff in Limestone</b> (STOF) (IN)	<b>HLDS Bulk Density (RHOM)</b> (G/C3)	
0 5	3 1	
<b>HLDS Caliper (LCAL)</b> (IN)	<b>Tension (TENS)</b> (LBF)	<b>APS Near/Array Corrected Limestone Porosity (APLC)</b> (PU)
0 20	0 10000 0	0 100







PIP SUMMARY

▶ Time Mark Every 60 S

Parameters

DLIS Name	Description	Value	
DLT-E: DUAL LATEROLOG - E			
DPRF	DEEP REFERENCE POWER	550	NW
KFAC	K FACTOR	SOND	
LLOO	LATEROLOG LOOP	BOTH	
PLRM	POWER LOOP REFERENCE MODE	DEEP	
SPRF	SHALLOW REFERENCE POWER	550	NW
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	-15.6914	DEG
MRTE	Magneto Reference Temperature	25	DEGC
TEMS	GPIT Temperature Sensor Used	BOTH	
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	ON	
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	16000	
PSDS	HLDS SS Pulse Shape Compensation DAC	16000	
PSML	HLDS LS Pulse Shape Compensation Mode	AUTO	
PSMS	HLDS SS Pulse Shape Compensation Mode	AUTO	
NPLC-B: Nuclear Porosity Lithology Cartridge - B			
NOTS	NPLC Old Temperature Sensor	NO	
APS-C: Accelerator-Porosity Tool			
AASD	APS Software Version	5	
ADSO	APS Thermal and Array Detectors High Voltage Setting	1971.68	V
AFSD	APS Array Detectors Data Source Switch	Both	
AHCS	APS Far Detector High Voltage Setting	2078.39	V
AHSS	APS Holesize Correction Source	GCSE	
AMTY	APS Holesize Correction Switch	ON	
ANSD	APS Environmental Corrections Mud Type	WaterBaseBarite	
ASOS	APS Near Detector High Voltage Setting	1740.46	V
ATSS	APS Standoff Correction Switch	ON	
BHS	APS Temperature-Pressure-Salinity Correction Switch	OFF	
BHT	Borehole Status	OPEN	
DPPM	Bottom Hole Temperature (used in calculations)	35	DEGC
FSAL	Density Porosity Processing Mode	HIRS	
GCSE	Formation Salinity	35000	PPM
GDEV	Generalized Caliper Selection	LCAL	
GGRD	Average Angular Deviation of Borehole from Normal	0	DEG
GRSE	Geothermal Gradient	0.018227	DC/M
	Generalized Mud Resistivity Selection	CHART_GEN_9	



GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
NARC	APS Near/Array Calibration Ratio	0.991528	
NFRC	APS Near/Far Calibration Ratio	0.963658	
SHT	Surface Hole Temperature	20	DEGC
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)	35	DEGC
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	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
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	-0.00244928	
HALF	HNGS Alpha Filter Length	60	IN
HCRB	HNGS Apply Borehole Potassium Correction	NONE	
HMWM	Mud Weighting Material	NATU	
HNPE	HNGS Processing Enable	YES	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	-2.20901	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	1.21428	
BSP: Bridle SP			
SPNV	SP Next Value	0	MV
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	35	DEGC
FCD	Future Casing (Outer) Diameter	0	IN
GCSE	Generalized Caliper Selection	LCAL	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.018227	DC/M
GRSE	Generalized Mud Resistivity Selection	CHART_GEN_9	
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
HVCS	Integrated Hole Volume Caliper Selection	AUTOMATIC	
MATR	Rock Matrix for Neutron Porosity Corrections	LIMESTONE	
SHT	Surface Hole Temperature	20	DEGC
STI: Stuck Tool Indicator			
LBFR	Trigger for MAXIS First Reading Label	STI	
STKT	STI Stuck Threshold	0.762	M
TDD	Total Depth - Driller	55.00	M
TDL	Total Depth - Logger	55.00	M
System and Miscellaneous			
ALTDPCCHAN	Name of alternate depth channel	SpeedCorrectedDepth	
BS	Bit Size	9.875	IN
BSAL	Borehole Salinity	35000.00	PPM
CSIZ	Current Casing Size	0.00	IN
CWEI	Casing Weight	0.00	LB/F
DFD	Drilling Fluid Density	1.07	G/C3
MST	Mud Sample Temperature	23.00	DEGC
PBVSADP	Use alternate depth channel for playback	NO	
RMFS	Resistivity of Mud Filtrate Sample	-50000.0000	OHMM
RW	Resistivity of Connate Water	1.0000	OHMM
TD	Total Depth	2057.3	M
TWS	Temperature of Connate Water Sample	37.78	DEGC

Format: APS\_HLDS\_PORO Vertical Scale: 1:200 Graphics File Created: 02-Jan-2005 12:51

## OP System Version: 12C0-301

MCM

DLT-E	12C0-301	GPIT-A/B	12C0-301
DTA-A	12C0-301	HLDS	12C0-301
NPLC-B	12C0-301	APS-C	12C0-301
HNGS-BA	12C0-301	DTC-H	12C0-301
BSP	12C0-301		

## Output DLIS Files

DEFAULT DLI LDI APS\_NGS\_0311UP EN:23 PRODUCER 02-Jan-2005 12:51

Company: Lamont Doherty

**Schlumberger**

Well: IODP EXP 304 Site 1309D

Field: Atlantis Massif

Country: Mid Atlantic Ridge

Ocean: Atlantic Ocean

APS/HLDS Porosity