

**Company:** Lamont Doherty

**Well:** ODP Leg 201, Site 1229A PRU-1A

**Field:** Peru Margin

**Rig:** JOIDES Resolution Ocean: Pacific

## IPLT Triple Combo with Phasor Induction Natural Gamma Ray

<b>Rig:</b> JOIDES Resolution		<b>Field:</b> Peru Margin		<b>Location:</b> 10 Deg 58.5729' S Latitude 77 Deg 57.46' W Longitude		<b>Well:</b> ODP Leg 201, Site 1229A PRU-1A		<b>Company:</b> Lamont Doherty	
<b>LOCATION</b>					10 Deg 58.5729' S Latitude		Elev.: K.B. 11.3 m		
					77 Deg 57.46' W Longitude		G.L. -164 m D.F. 11 m		
Permanent Datum:			MSL		Elev.: 0 m				
Log Measured From:			RKB		11.3 m above Perm. Datum				
Drilling Measured From:			RKB						
API Serial No.		Max. Hole Devi.		Longitude		Latitude			
8-Mar-2002		0 deg							

<b>Logging Date</b>		8-Mar-2002							
<b>Run Number</b>		1							
<b>Depth Driller</b>		350 m							
<b>Schlumberger Depth</b>		350 m							
<b>Bottom Log Interval</b>		344 m							
<b>Top Log Interval</b>		164 m							
<b>Casing Driller Size @ Depth</b>		0.000 in @ 233 m							
<b>Casing Schlumberger</b>		231 m							
<b>Bit Size</b>		11.438 in							
<b>Type Fluid In Hole</b>		Septolite/Saltwater							
<b>Density</b>		1.07 g/cm3							
<b>Fluid Loss</b>		PH							
<b>Source Of Sample</b>		mudpit							
<b>RM @ Measured Temperature</b>		0.235 ohm.m @ 33 degC							
<b>RMF @ Measured Temperature</b>		@ @							
<b>RMC @ Measured Temperature</b>		@ @							
<b>Source RMF</b>		RMC							
<b>RM @ MRT</b>		RMF @ MRT		none @ 26					
<b>Maximum Recorded Temperatures</b>		26 degC							
<b>Circulation Stopped</b>		8-Mar-2002		6:00					
<b>Logger On Bottom</b>		8-Mar-2002		5:15					
<b>Unit Number</b>		99		Houston ODP					
<b>Recorded By</b>		K. Swain							
<b>Witnessed By</b>		Gilles Guerin							

<b>Logging Date</b>		8-Mar-2002							
<b>Run Number</b>		1							
<b>Depth Driller</b>		350 m							
<b>Schlumberger Depth</b>		350 m							
<b>Bottom Log Interval</b>		344 m							
<b>Top Log Interval</b>		164 m							
<b>Casing Driller Size @ Depth</b>		0.000 in @ 233 m							
<b>Casing Schlumberger</b>		231 m							
<b>Bit Size</b>		11.438 in							
<b>Type Fluid In Hole</b>		Septolite/Saltwater							
<b>Density</b>		1.07 g/cm3							
<b>Fluid Loss</b>		PH							
<b>Source Of Sample</b>		mudpit							
<b>RM @ Measured Temperature</b>		0.235 ohm.m @ 33 degC							
<b>RMF @ Measured Temperature</b>		@ @							
<b>RMC @ Measured Temperature</b>		@ @							
<b>Source RMF</b>		RMC							
<b>RM @ MRT</b>		RMF @ MRT		none @ 26					
<b>Maximum Recorded Temperatures</b>		26 degC							
<b>Circulation Stopped</b>		8-Mar-2002		6:00					
<b>Logger On Bottom</b>		8-Mar-2002		5:15					
<b>Unit Number</b>		99		Houston ODP					
<b>Recorded By</b>		K. Swain							
<b>Witnessed By</b>		Gilles Guerin							

DISCLAIMER

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OTHER SERVICES1 OS1: DITE OS2: SGTN OS3: OS4: OS5:	OTHER SERVICES2 OS1: OS2: OS3: OS4: OS5:
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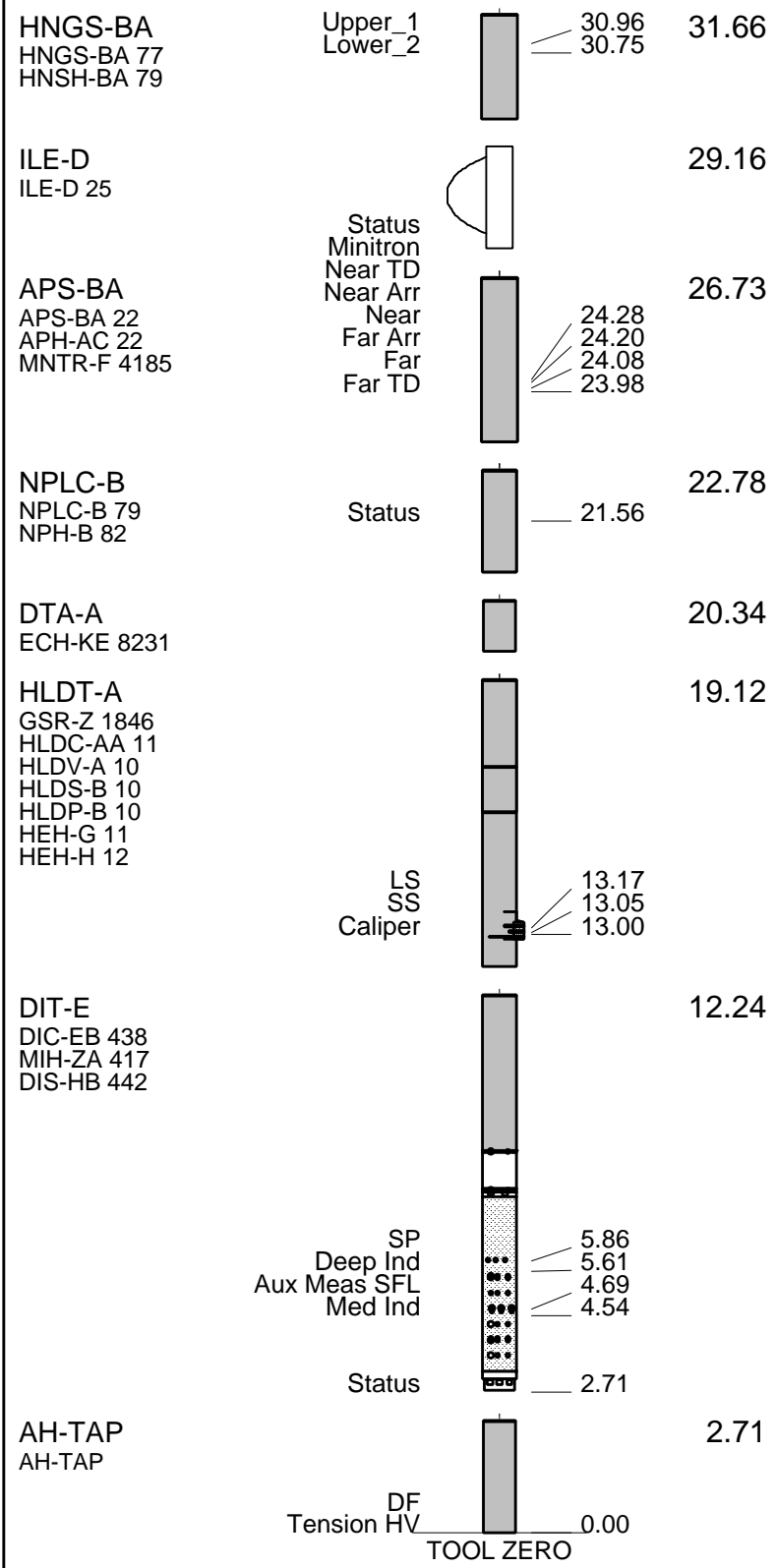
REMARKS: RUN NUMBER 1 Hole cored with APC, PCS. Log presented in meters below rig floor. Lamont Temperature tool (TAP) was run on Triple Combo. Wireline Heave Compensator (WHC) was used on all descents. Sepiolite mud was used to displace the hole during the wiper trip after drilling Drillers TD 350 mbrf, Driller pipe depth: 231 mbrf, Sea Floor: 164 mbrf.  Drill Pipe Schlumberger 233 mbrf. Sea Floor Schlumberger 164 mbrf.  Software bug shows APS calibration not done for part of calibration. Low background countrate on HNGS master calibration signifies a weak internal source used for check of detector and not used in calibration. High background countrate for APS before check most likely due to pipe vibration. After Cal for HLDT and HNGS not performed to minimize exposure to vibration in pipe.	REMARKS: RUN NUMBER 2
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RUN 1			RUN 2		
SERVICE ORDER #:			SERVICE ORDER #:		
PROGRAM VERSION:	10C0-306		PROGRAM VERSION:		
FLUID LEVEL:			FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

RUN 1		RUN 2	
SURFACE EQUIPMENT			
SFT-281 24	WITM (DTS)-A		
SFT-178 4722			
GSR-U 135			
GSR-U/Y			

DOWNHOLE EQUIPMENT			
LEH-QT			35.14
LEH-QT 1726			
DTC-H	CTEM		33.98
ECH-KC 9343	TelStatus		34.25
	ToolStatu		33.34
SGT-N	Gamma Ray		33.06
SGH-K 2448			
SCC TR 0582			



HNGS-BA  
HNGS-BA 77  
HNSH-BA 79

Upper\_1  
Lower\_2

30.96  
30.75

31.66

ILE-D  
ILE-D 25

Status  
Minitron

29.16

APS-BA  
APS-BA 22  
APH-AC 22  
MNTR-F 4185

Near TD  
Near  
Far Arr  
Far  
Far TD

24.28  
24.20  
24.08  
23.98

26.73

NPLC-B  
NPLC-B 79  
NPH-B 82

Status

21.56

22.78

DTA-A  
ECH-KE 8231

20.34

HLDT-A  
GSR-Z 1846  
HLDC-AA 11  
HLDV-A 10  
HLDS-B 10  
HLDP-B 10  
HEH-G 11  
HEH-H 12

LS  
SS  
Caliper

13.17  
13.05  
13.00

19.12

DIT-E  
DIC-EB 438  
MIH-ZA 417  
DIS-HB 442

12.24

SP  
Deep Ind  
Aux Meas SFL  
Med Ind

5.86  
5.61  
4.69  
4.54

Status

2.71

AH-TAP  
AH-TAP

2.71

DF  
Tension HV  
TOOL ZERO

0.00

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

## Input DLIS Files

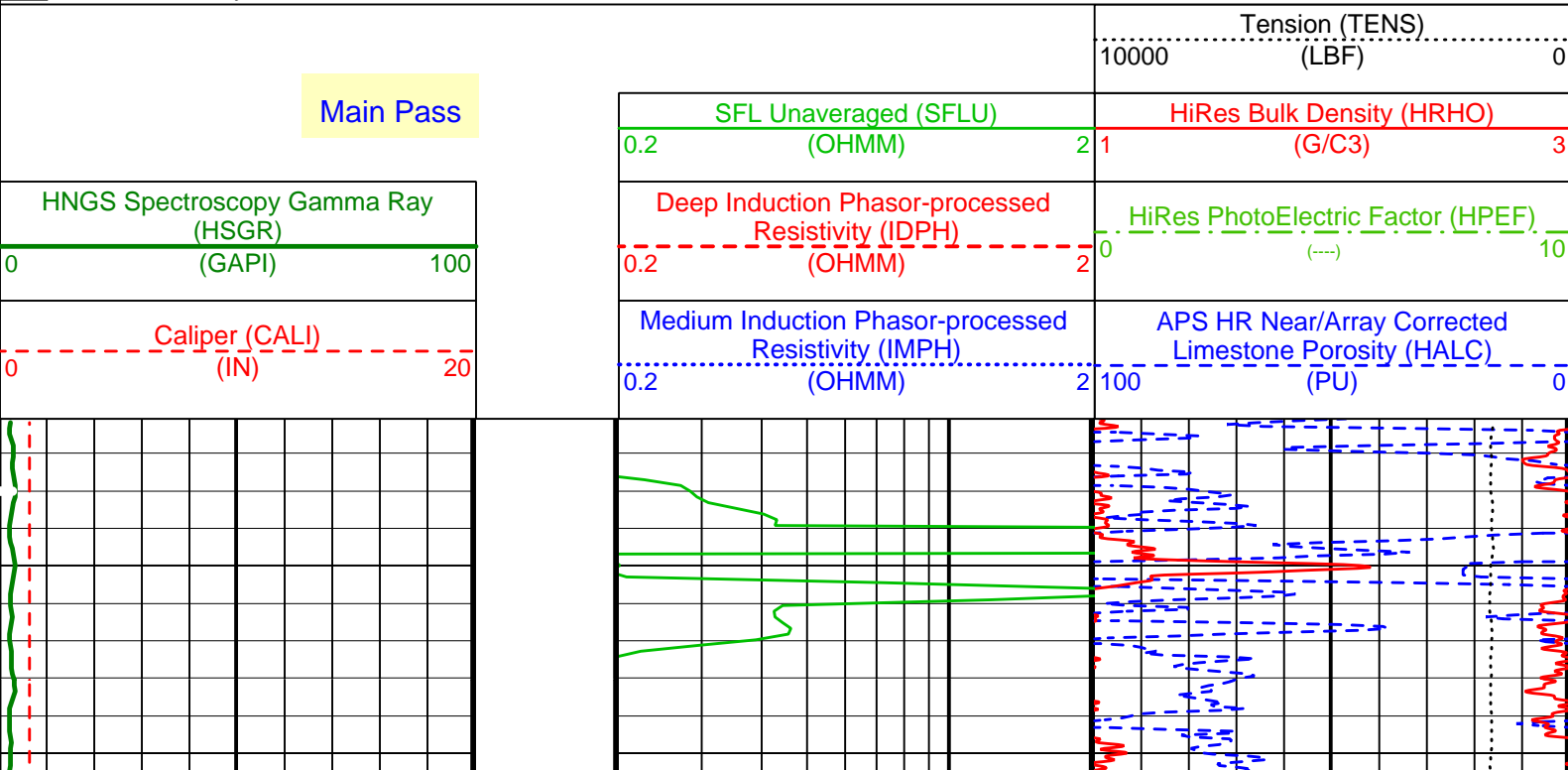
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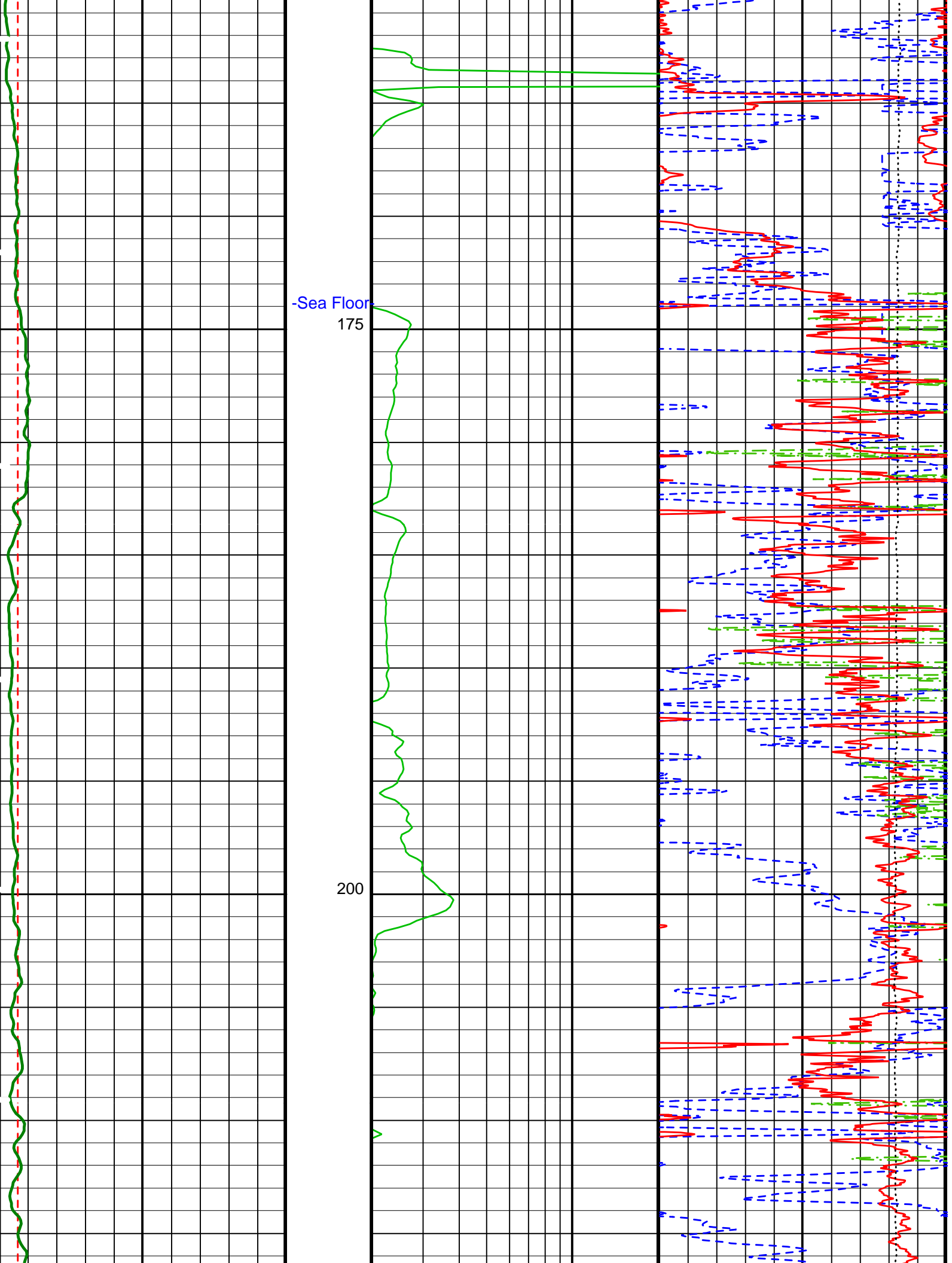
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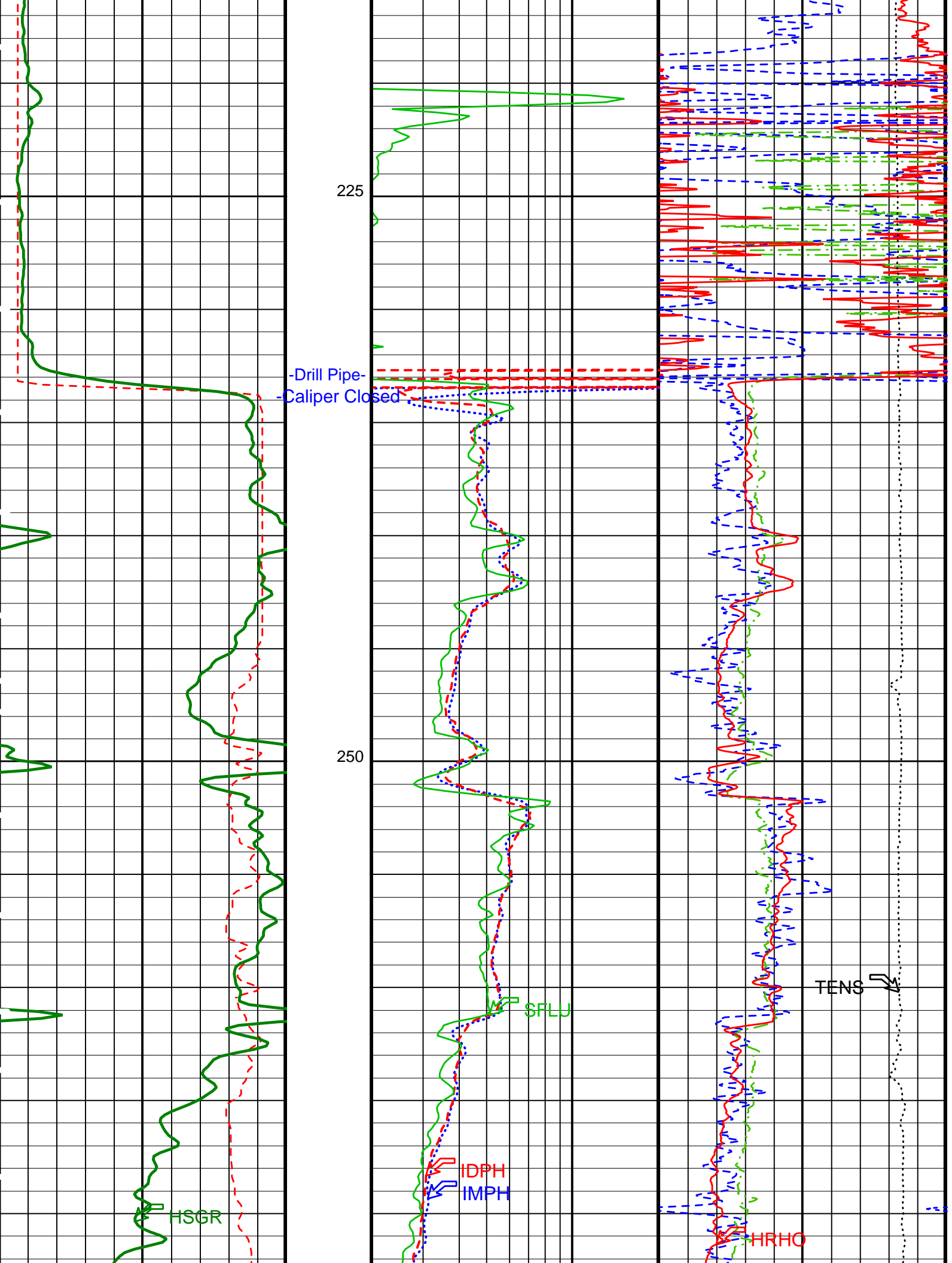
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DTA-A	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
SGT-N	10C0-306	DTC-H	10C0-306

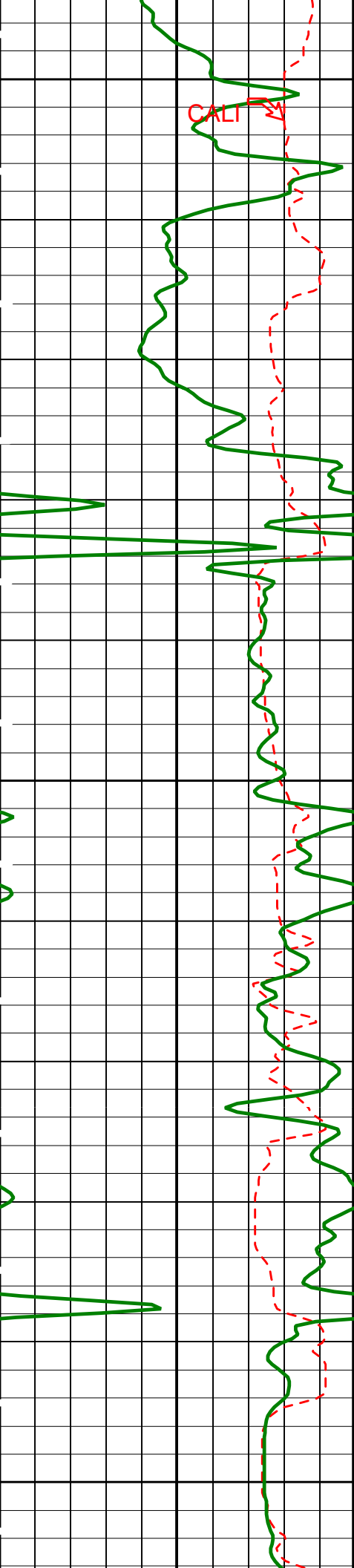
### PIP SUMMARY

Time Mark Every 60 S









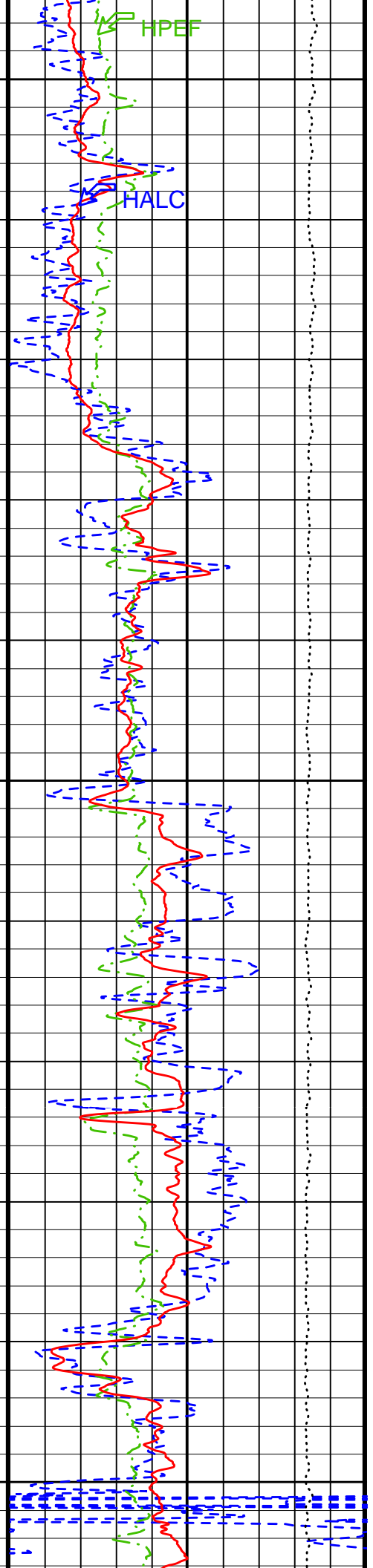
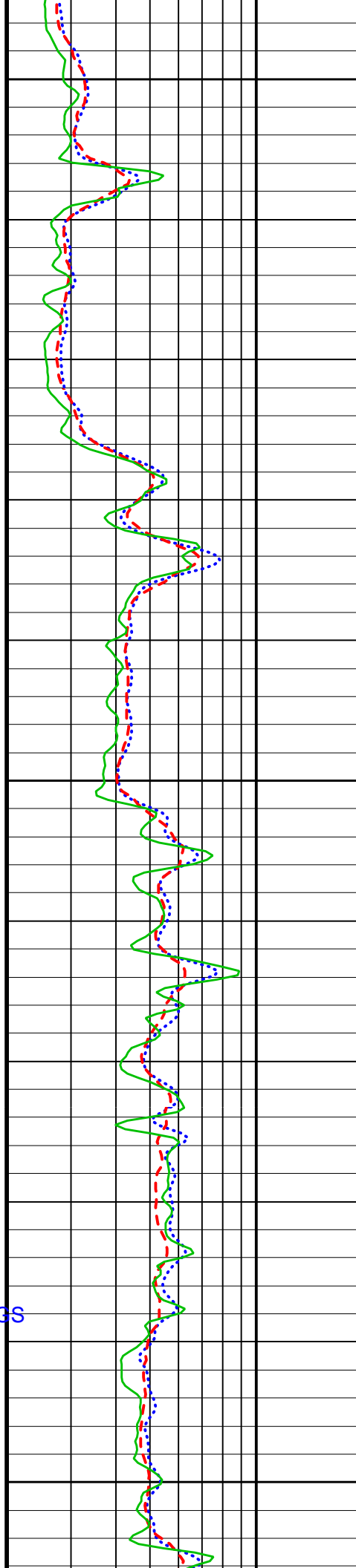
275

300

325

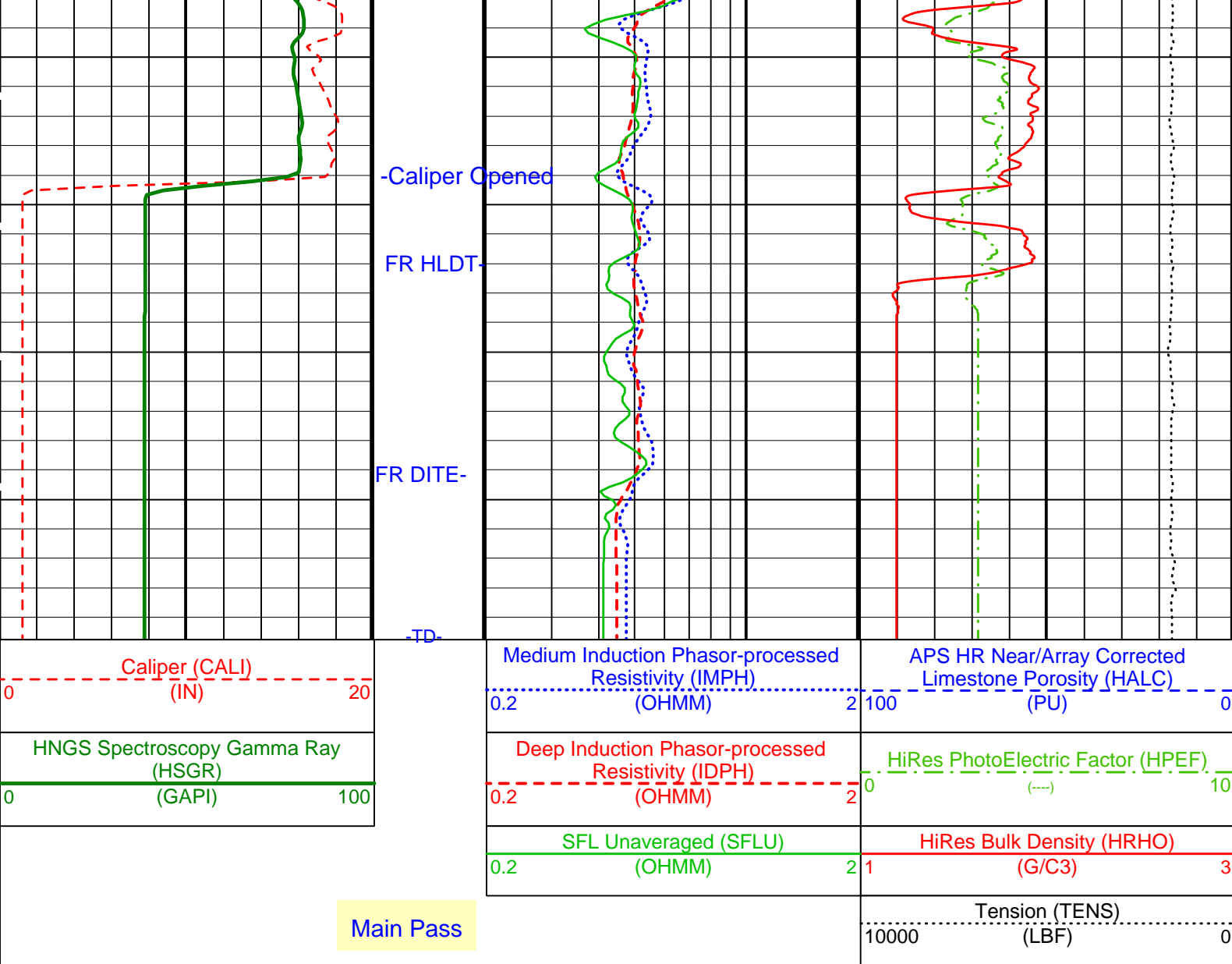
-FR HNGS

FR APS-



HPEF

HALC



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)	40 DEGF
DGF2	Deep 20 kHz Gain Factor	1.00789
DPH2	Deep 20 kHz Phase Shift	-0.152394 DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	16.357 MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843 MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	64.6326 MM/M
GCSE	Generalized Caliper Selection	CALI
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.01 DF/F
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
ITEN	DIT-E Temperature Enable	ENABLE
MGF2	Medium 20 kHz Gain Factor	1.02964
MPH2	Medium 20 kHz Phase Shift	-0.933067 DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	-1.78642 MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250 MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	-34.2041 MM/M
SFCR	SFL Channel Ratio	1000
SHT	Surface Hole Temperature	68 DEGF
HLDT-A: Hostile Environment Litho Density - A		
DHC	Density Hole Correction	BS
DPPM	Density Porosity Processing Mode	HIRS



QPPS	Quicklook Processing Pe Select	PEFL	
WMUD	Mud Weight	1.07	G/C3
	APS-BA: Accelerator-Porosity Tool		
	APS Software Version	0	
AASD	APS Thermal and Array Detectors High Voltage Setting	1968.98	V
ABOS	APS Neutron Burst-Off Background Subtraction Switch	ON	
ADSO	APS Array Detectors Data Source Switch	Both	
AFSD	APS Far Detector High Voltage Setting	2052.03	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	1748.3	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)	40	DEGF
DPPM	Density Porosity Processing Mode	HIRS	
FSAL	Formation Salinity	-50000	PPM
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
NARC	APS Near/Array Calibration Ratio	1.0631	
NFRC	APS Near/Far Calibration Ratio	0.902243	
SHT	Surface Hole Temperature	68	DEGF
	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)	40	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	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
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	-0.000128346	
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	
SHT	Surface Hole Temperature	68	DEGF
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.972261	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.978066	
	SGT-N: Scintillation Gamma-Ray - N		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGF
DPPM	Density Porosity Processing Mode	HIRS	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
	HOLEV: Integrated Hole/Cement Volume		
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGF
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
	System and Miscellaneous		
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	0.000	IN
CWEI	Casing Weight	0.00	LB/F
DFD	Drilling Fluid Density	1.07	G/C3
DO	Depth Offset for Playback	0.0	M
PP	Playback Processing	NORMAL	
TD	Total Depth	1158	FT

DIT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
SGT-N	10C0-306	DTC-H	10C0-306

### Input DLIS Files

DEFAULT	PI_LDL_APS_NGS_006LUP	FN:7	PRODUCER	08-Mar-2002 11:20	349.8 M	144.0 M
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### Output DLIS Files

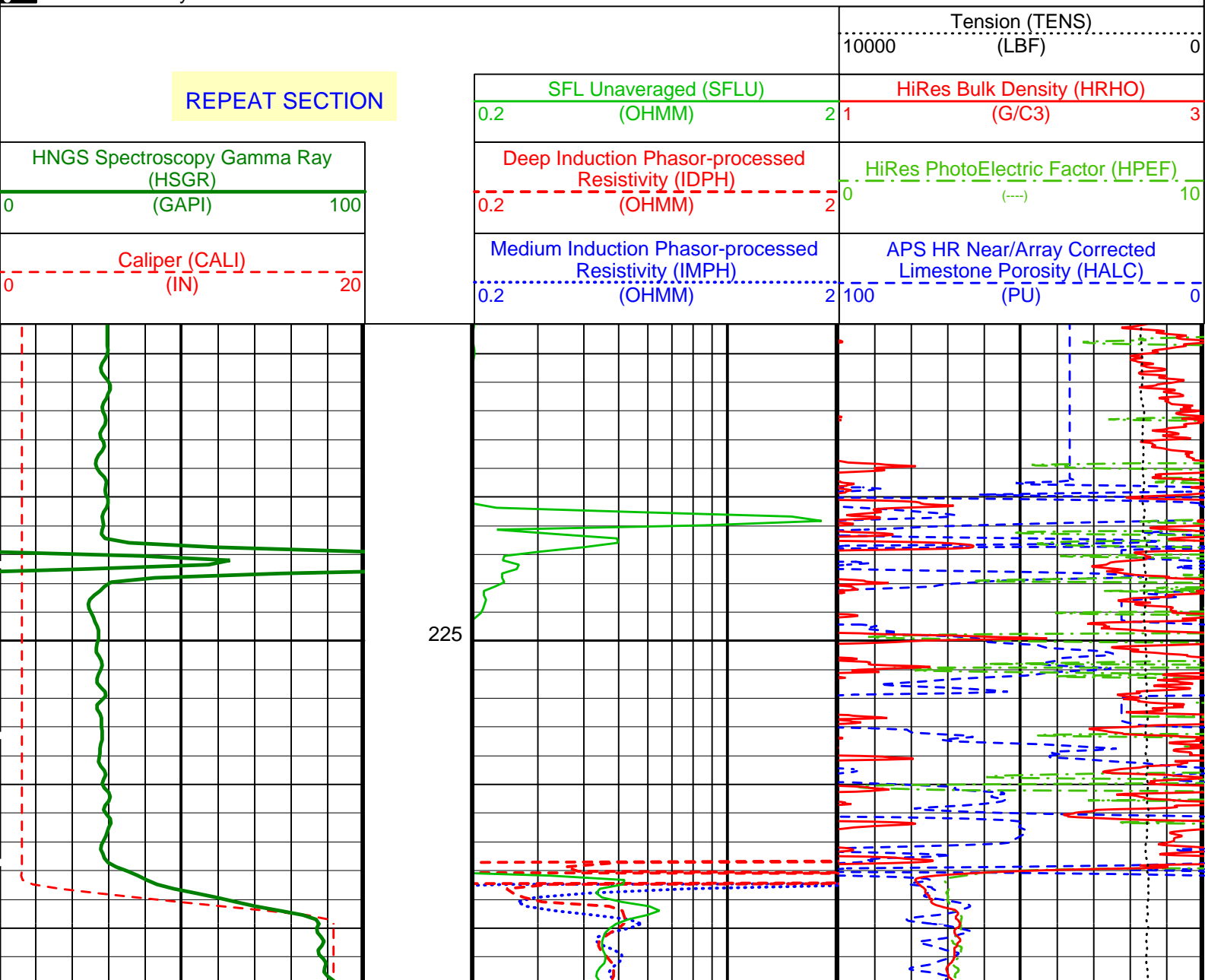
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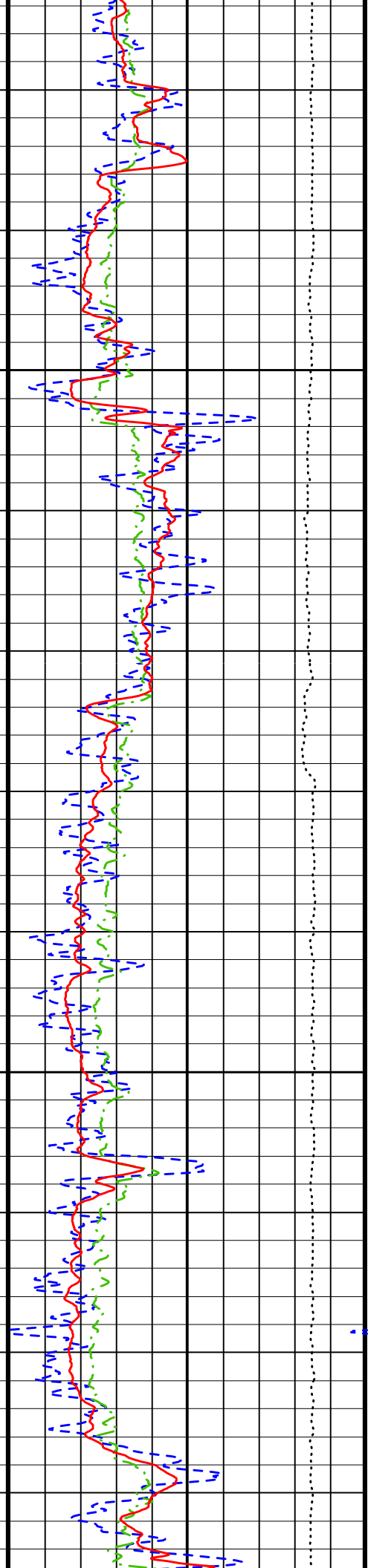
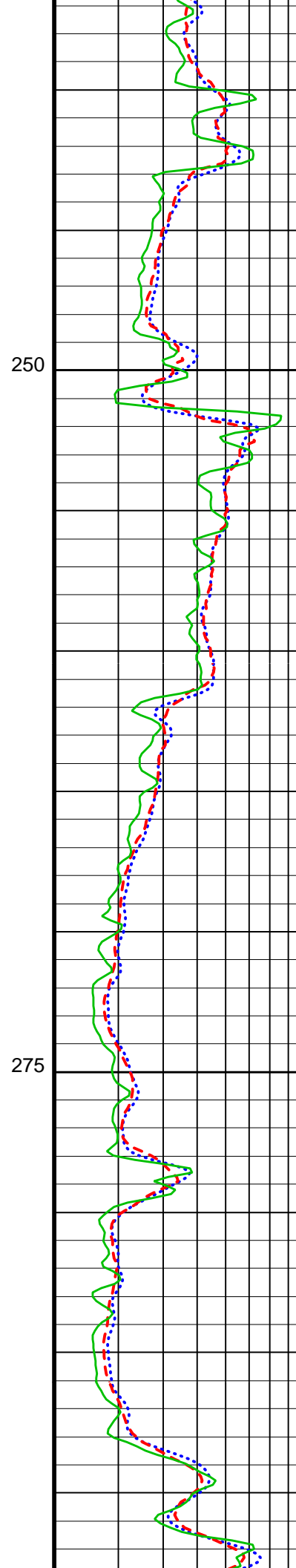
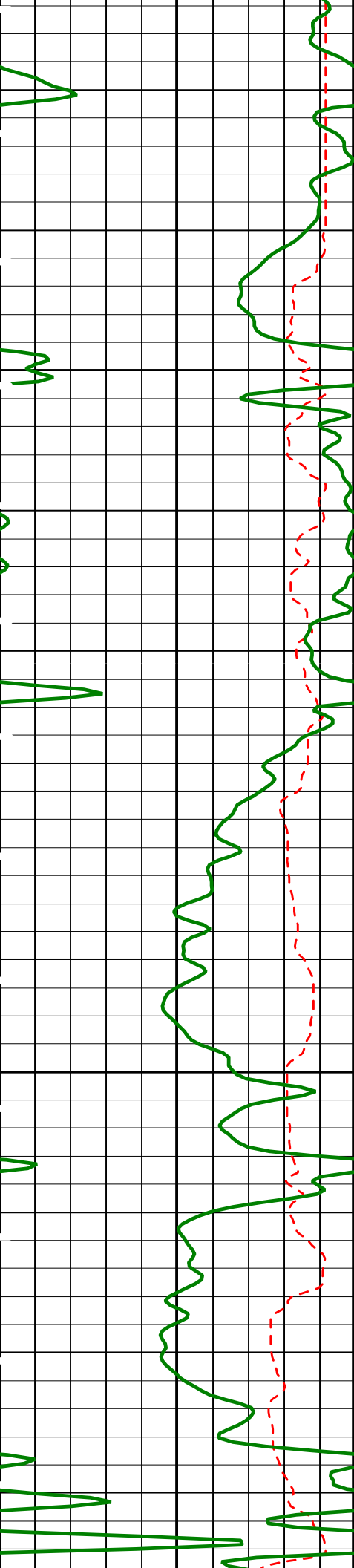
### OP System Version: 10C0-306 MCM

DIT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
SGT-N	10C0-306	DTC-H	10C0-306

### PIP SUMMARY

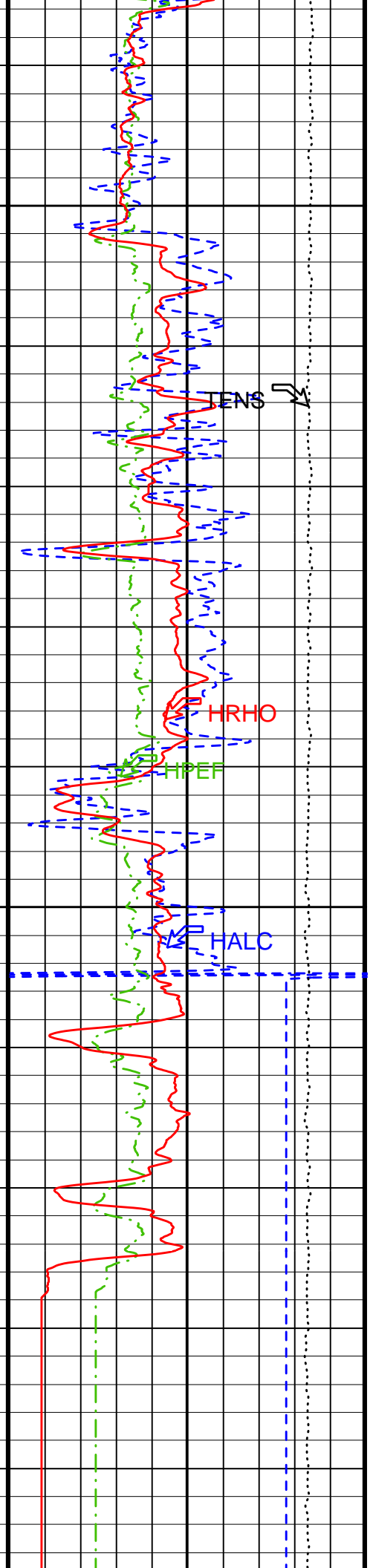
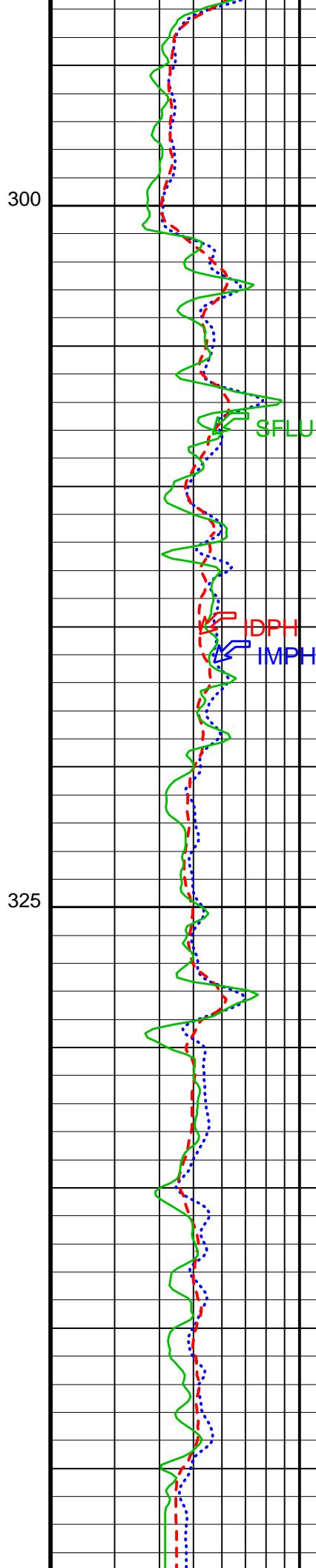
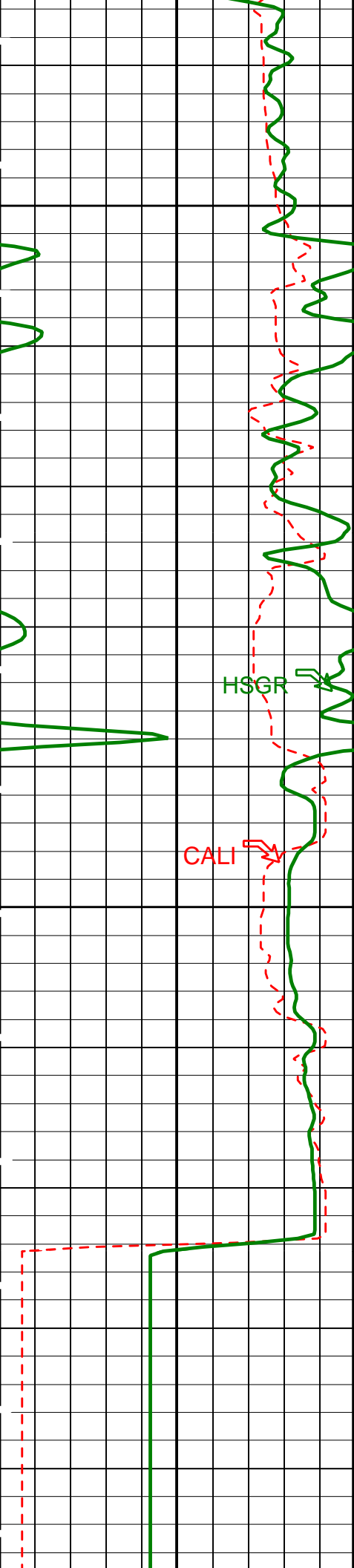
Time Mark Every 60 S





250

275



0	Caliper (CALI) (IN)	20	0.2	Medium Induction Phasor-processed Resistivity (IMPH) (OHMM)	2	100	APS HR Near/Array Corrected Limestone Porosity (HALC) (PU)	0
0	HNGS Spectroscopy Gamma Ray (HSGR) (GAPI)	100	0.2	Deep Induction Phasor-processed Resistivity (IDPH) (OHMM)	2	0	HiRes PhotoElectric Factor (HPEF) (---)	10
	REPEAT SECTION		0.2	SFL Unaveraged (SFLU) (OHMM)	2	1	HiRes Bulk Density (HRHO) (G/C3)	3
						10000	Tension (TENS) (LBF)	0

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)	40	DEGF
DGF2	Deep 20 kHz Gain Factor	1.00789	
DPH2	Deep 20 kHz Phase Shift	-0.152394	DEG
DRE2	Deep Real 20 kHz Sonde Error Correction	16.357	MM/M
DSR2	Deep Sigma Reference (20 kHz)	1843	MM/M
DXE2	Deep Quad 20 kHz Sonde Error Correction	64.6326	MM/M
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
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	
ITEN	DIT-E Temperature Enable	ENABLE	
MGF2	Medium 20 kHz Gain Factor	1.02964	
MPH2	Medium 20 kHz Phase Shift	-0.933067	DEG
MRE2	Medium Real 20 kHz Sonde Error Correction	-1.78642	MM/M
MSR2	Medium Sigma Reference (20 kHz)	3250	MM/M
MXE2	Medium Quad 20 kHz Sonde Error Correction	-34.2041	MM/M
SFCR	SFL Channel Ratio	1000	
SHT	Surface Hole Temperature	68	DEGF
HLDT-A: Hostile Environment Litho Density - A			
DHC	Density Hole Correction	BS	
DPPM	Density Porosity Processing Mode	HIRS	
QPPS	Quicklook Processing Pe Select	PEFL	
WMUD	Mud Weight	1.07	G/C3
APS-BA: Accelerator-Porosity Tool			
AASD	APS Software Version	5	
ABOS	APS Thermal and Array Detectors High Voltage Setting	1968.98	V
ADSO	APS Neutron Burst-Off Background Subtraction Switch	ON	
AFSD	APS Array Detectors Data Source Switch	Both	
AHCS	APS Far Detector High Voltage Setting	2052.03	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	1748.3	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)	40	DEGF
FSAL	Density Porosity Processing Mode	HIRS	
GCSE	Formation Salinity	-50000	PPM
GDEV	Generalized Caliper Selection	CALI	
GGRD	Average Angular Deviation of Borehole from Normal	0	DEG
GTSE	Geothermal Gradient	0.01	DF/F
NARC	Generalized Temperature Selection	LINEAR_ESTIMATE	
NFRC	APS Near/Array Calibration Ratio	1.0631	
SHT	APS Near/Far Calibration Ratio	0.902243	
	Surface Hole Temperature	68	DEGF
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)	40	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	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
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	-0.0184082	
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	
SHT	Surface Hole Temperature	68	DEGF
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.91691	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.941448	
SGT-N: Scintillation Gamma-Ray - N			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGF
DPPM	Density Porosity Processing Mode	HIRS	
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
HOLEV: Integrated Hole/Cement Volume			
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	DEGF
GCSE	Generalized Caliper Selection	CALI	
GDEV	Average Angular Deviation of Borehole from Normal	0	DEG
GGRD	Geothermal Gradient	0.01	DF/F
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE	
SHT	Surface Hole Temperature	68	DEGF
System and Miscellaneous			
BS	Bit Size	11.438	IN
BSAL	Borehole Salinity	-50000.00	PPM
CSIZ	Current Casing Size	0.000	IN
CWEI	Casing Weight	0.00	LB/F
DFD	Drilling Fluid Density	1.07	G/C3
TD	Total Depth	1158	FT

Format: HLDT\_HR\_TCOM    Vertical Scale: 1:200    Graphics File Created: 08-Mar-2002 12:07

### OP System Version: 10C0-306 MCM

DIT-E	10C0-306	HLDT-A	10C0-306
DTA-A	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
SGT-N	10C0-306	DTC-H	10C0-306

### Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_007LUP	FN:9	PRODUCER	08-Mar-2002 12:07
REDUCE	PI_LDL_APS_NGS_007LUP	FN:10	PRODUCER	08-Mar-2002 12:07

**Company:** Lamont Doherty

**Schlumberger**

**Well:** ODP Leg 201, Site 1229A PRU-1A

**Field:** Peru Margin

**Rig:** JOIDES Resolution

**Ocean:** Pacific

IPLT Triple Combo  
with Phasor Induction  
Natural Gamma Ray