

Schlumberger

Company: Lamont Doherty

Well: IODP EXP 311 Site U1328C

Field: CAS-06A

Country: Canada

Ocean: Pacific

APS/HLDS Porosity

Country: Canada
 Field: CAS-06A
 Location: Rig- Joides Resolution
 Well: IODP EXP 311 Site U1328C
 Company: Lamont Doherty

Rig- Joides Resolution		Elev.:	K.B.	11.3 m
			G.L.	-1279 m
			D.F.	11 m
Permanent Datum:		GROUND LEVEL		
Log Measured From: DES		Elev.: 0 m		
Drilling Measured From: DES		11.3 m above Perm. Datum		
API Serial No.	Max. Hole Devi.	Longitude	Latitude	
		126 51.043 W	48 40.0546 N	

Logging Date	
Run Number	1
Depth Driller	1579 m
Schlumberger Depth	1572 m
Bottom Log Interval	1570 m
Top Log Interval	1232 m
Casing Driller Size @ Depth	0.000 in @ 1339.35 m
Casing Schlumberger	1337 m
Bit Size	9.875 in
Type Fluid In Hole	Sepiolite with Barite
Density	1.26 g/cm3
Fluid Loss	0 cm3
Source Of Sample	
RM @ Measured Temperature	0.177 ohm.m @ 23 degC
RMF @ Measured Temperature	0.000 ohm.m @
RMC @ Measured Temperature	0.000 ohm.m @
Source RMF	RMC
RM @ MRT	0.199 @ 18 @ 18
Maximum Recorded Temperatures	18 degC
Circulation Stopped	10/14/05 1100
Logger On Bottom	10/14/05 See Log
Unit Number	99 Houston
Recorded By	Steve Kittredge
Witnessed By	Gilles Guerin, Alberto Malinverno

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				
Source Of Sample				
RM @ Measured Temperature		@	@	
RMF @ Measured Temperature		@	@	
RMC @ Measured Temperature		@	@	
Source RMF		RMC	RMC	
RM @ MRT		@	@	
Maximum Recorded Temperatures				
Circulation Stopped				
Logger On Bottom				
Unit Number				
Recorded By				
Witnessed By				

DISCLAIMER

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE OF AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

OTHER SERVICES1
OS1: DITE/HLDS
OS2: APS/HNGS
OS3: WSTA
OS4:
OS5:

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

REMARKS: RUN NUMBER 1
Hole drilled with APC/XCB.
All depths in Meters Below Rig Floor (MBRF).
Hole flushed with Sepiolite/Barite mud.
Sea Floor Driller-1279 MBRF.
Sea Floor Logger- 1279
Total Depth Driller- 1579 MBRF.
Total Depth Logger- 1572 MBRF.
Casing Bottom Driller- 1339.35 MBRF
Casing Bottom Logger- 1337 MBRF
No Repeat due to time limitations.

Heave was 2-3 meters.

REMARKS: RUN NUMBER 2

RUN 1		
LOGGED INTERVAL	START	STOP


RUN 2		
LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION

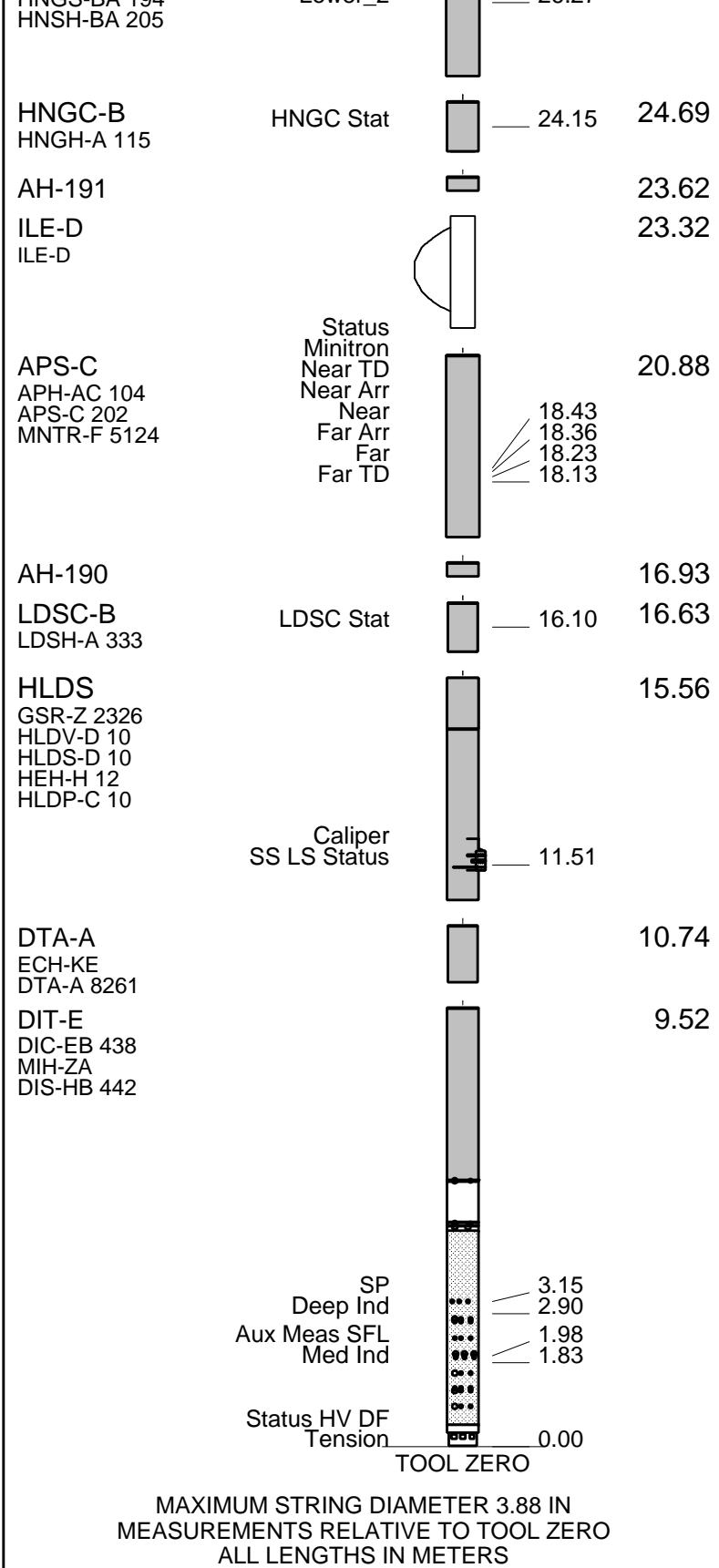
RUN 1 SURFACE EQUIPMENT
SFT-281 6250
SFT-178 6250
GSR-U 135
WITM (DTS)-A

RUN 2 SURFACE EQUIPMENT

DOWNHOLE EQUIPMENT

LEH-QT		28.99
LEH-QT 1726		
DTC-H	CTEM	27.82
ECH-KC 9841	TelStatus	28.10
	ToolStatu	27.19
HNGS-BA	Upper_1	26.49
HNGS-BA 194	Lower_2	26.27
		27.19

DOWNHOLE EQUIPMENT



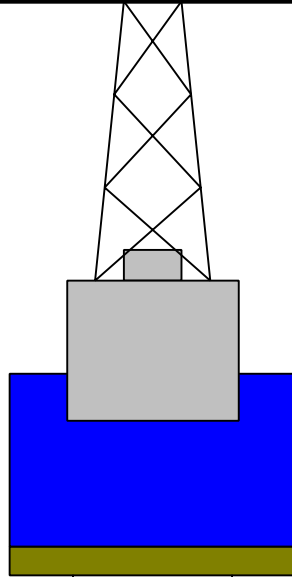
Production String	(in)	(m)	Well Schematic	(m)	(in)	Casing String
	OD	ID		MD	OD	

Kelly Bushing Elevation
Derrick Floor Elevation

Mean Sea Level

11.3
11.0

0.0



0.0 5.500

Casing String

1279.0 9.875
1339.3 5.500

Borehole Segment
Casing Shoe

1579.0 9.875

Borehole Segment Bottom



Schlumberger

Main Up Log

MAXIS Field Log

Output DLIS Files

DEFAULT	PI_LDL_APS_NGS_008LUP	FN:7	PRODUCER	14-Oct-2005 17:36	1572.8 M	1232.5 M
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OP System Version: 12C0-301 MCM

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

Changed Parameter Summary

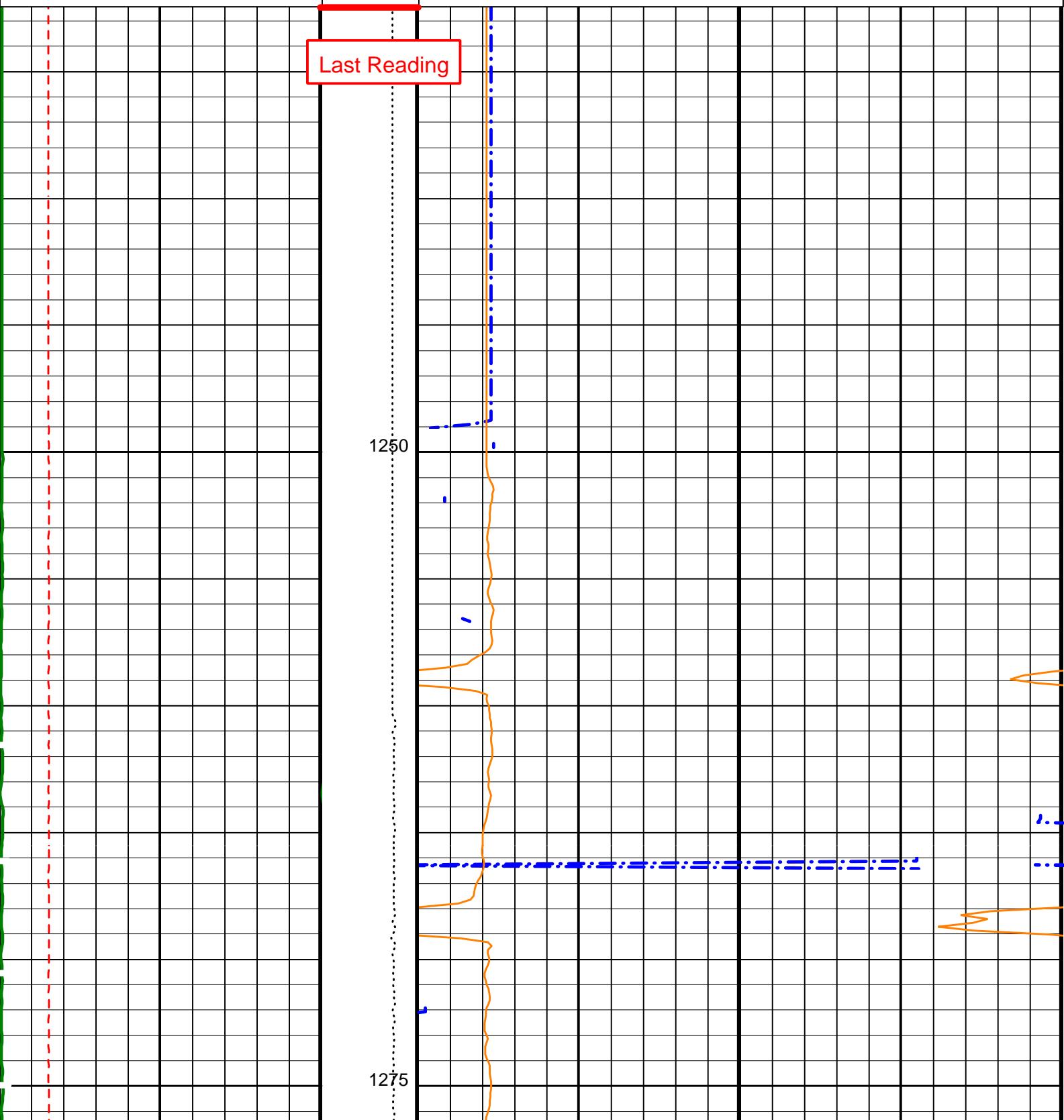
DLIS Name	New Value	Previous Value	Depth & Time
GCSE	BS	LCAL	1370.9 18:25:41

PIP SUMMARY

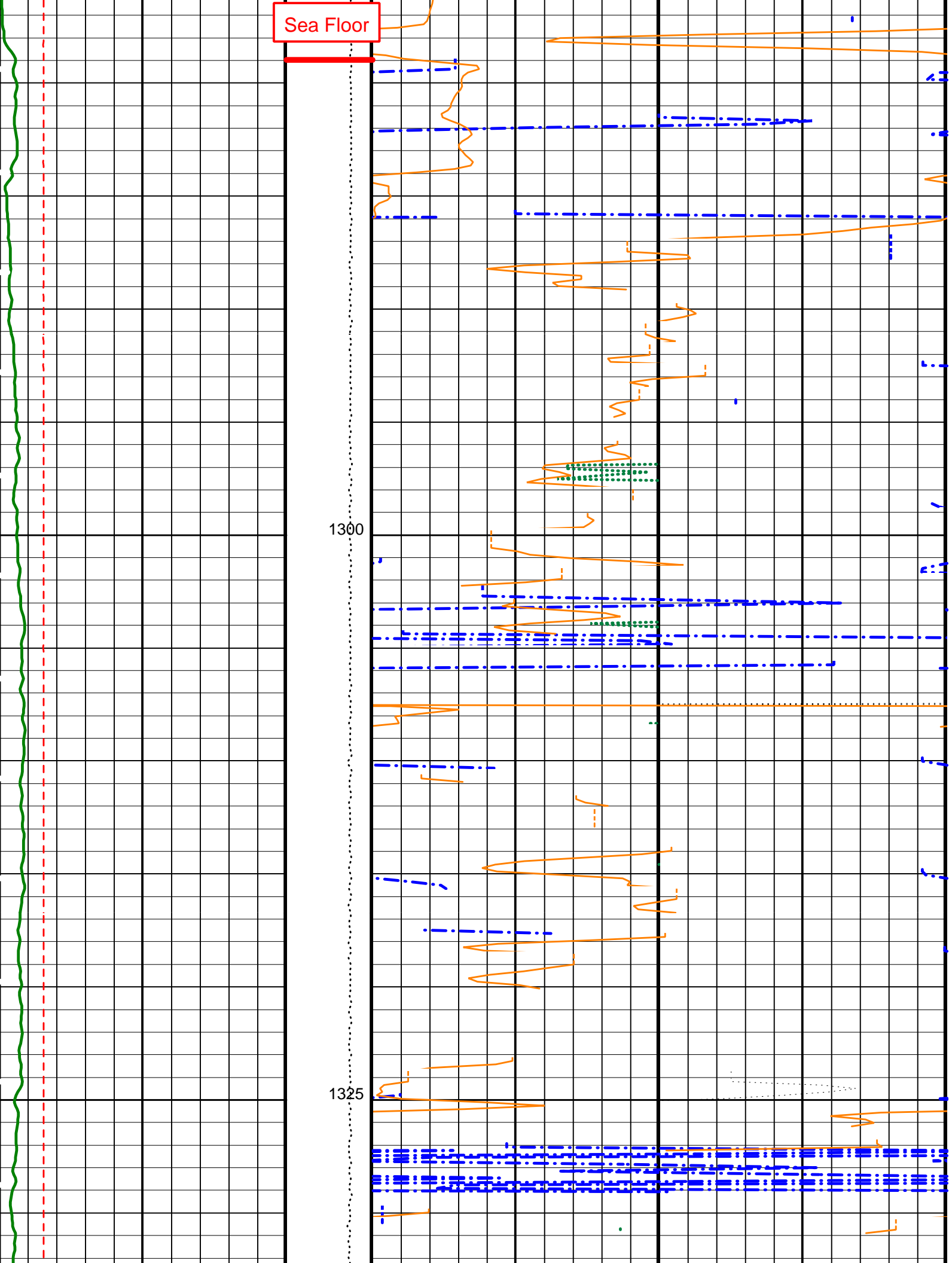
Time Mark Every 60 S

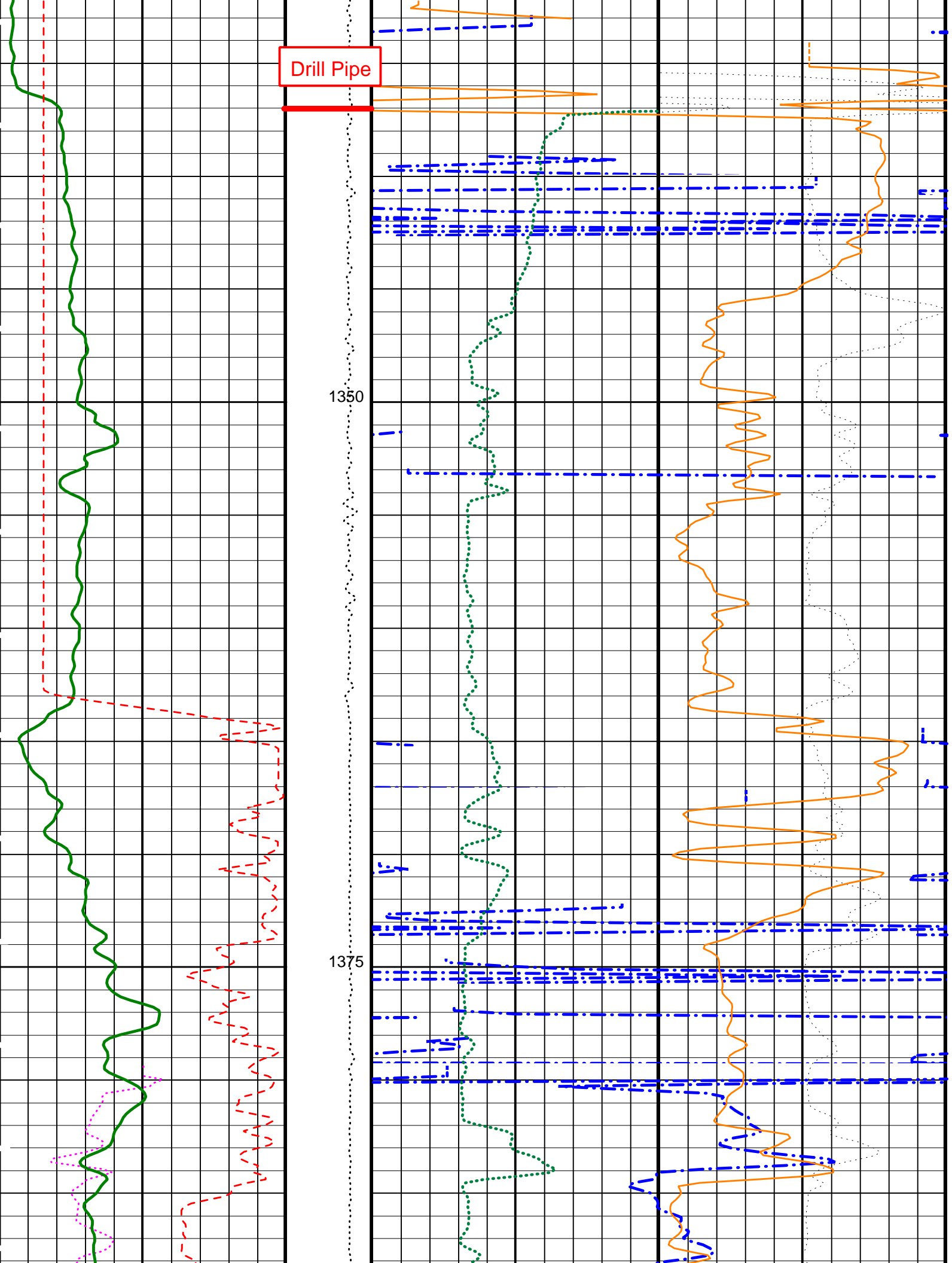
HNGS Spectroscopy Gamma Ray (HSGR) (GAPI) 0 150	HLDS Long Spaced Photoelectric Effect (PEFL) (---) 0 10	HLDS Bulk Density Correction (DRH) (G/C3) -0.25 0.25
APS Effective Standoff in Limestone (STOF) (IN) -1 4	HLDS Bulk Density (RHOM) (G/C3) 3 1	
HLDS Caliper (LCAL) (IN) 0 22	Tension (TENS) (LBF) 10000 0	APS Near/Array Corrected Limestone Porosity (APLC) (PU) 0 100

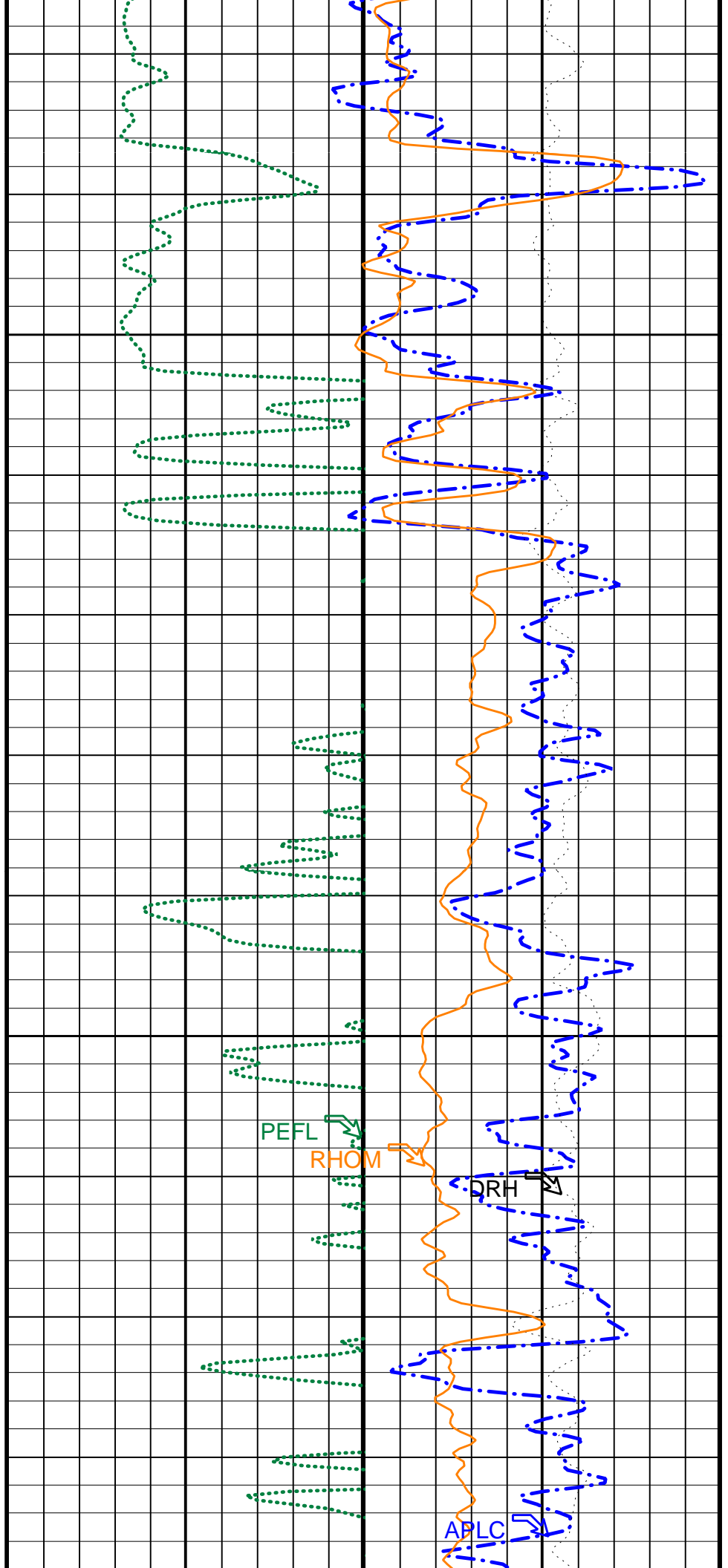
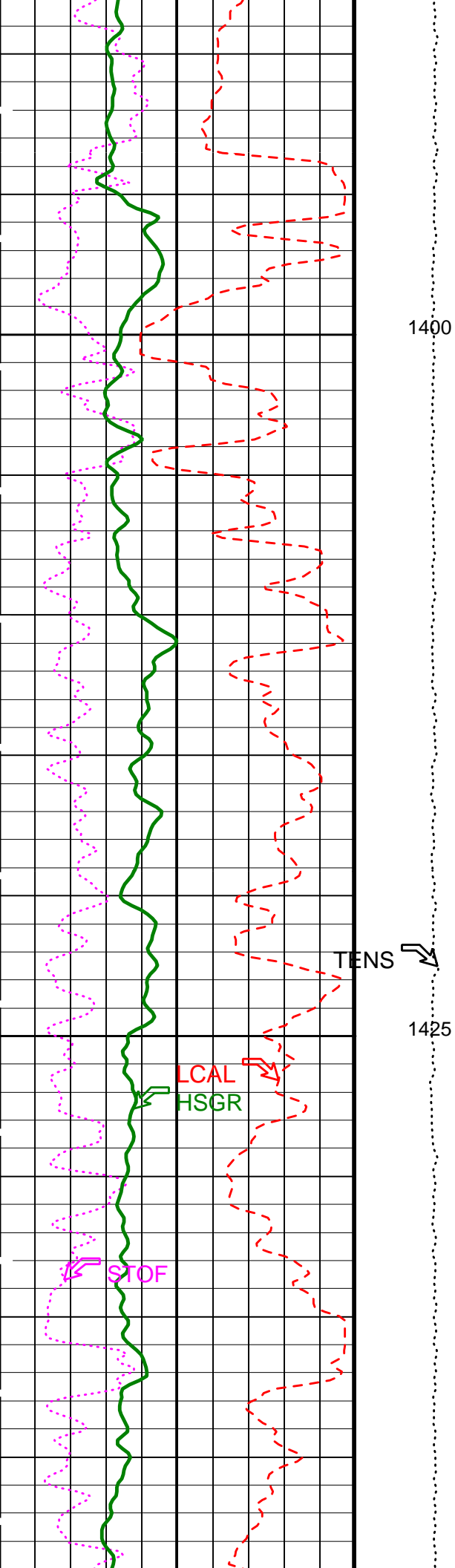
Last Reading

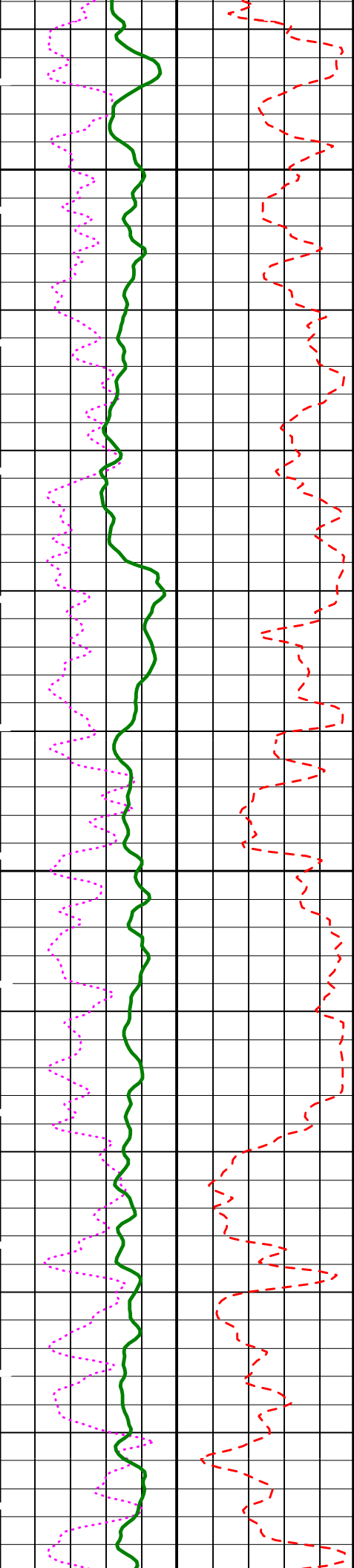


Sea Floor





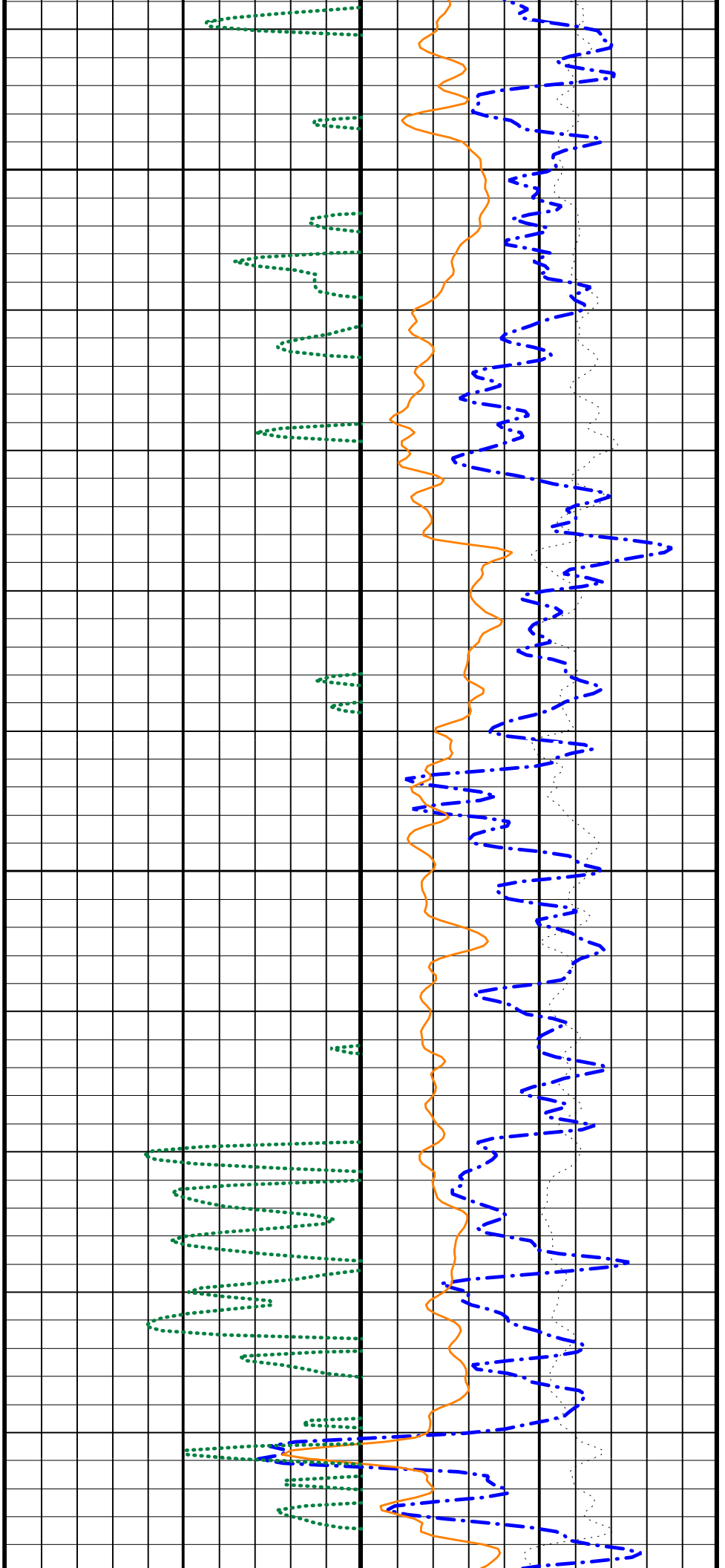


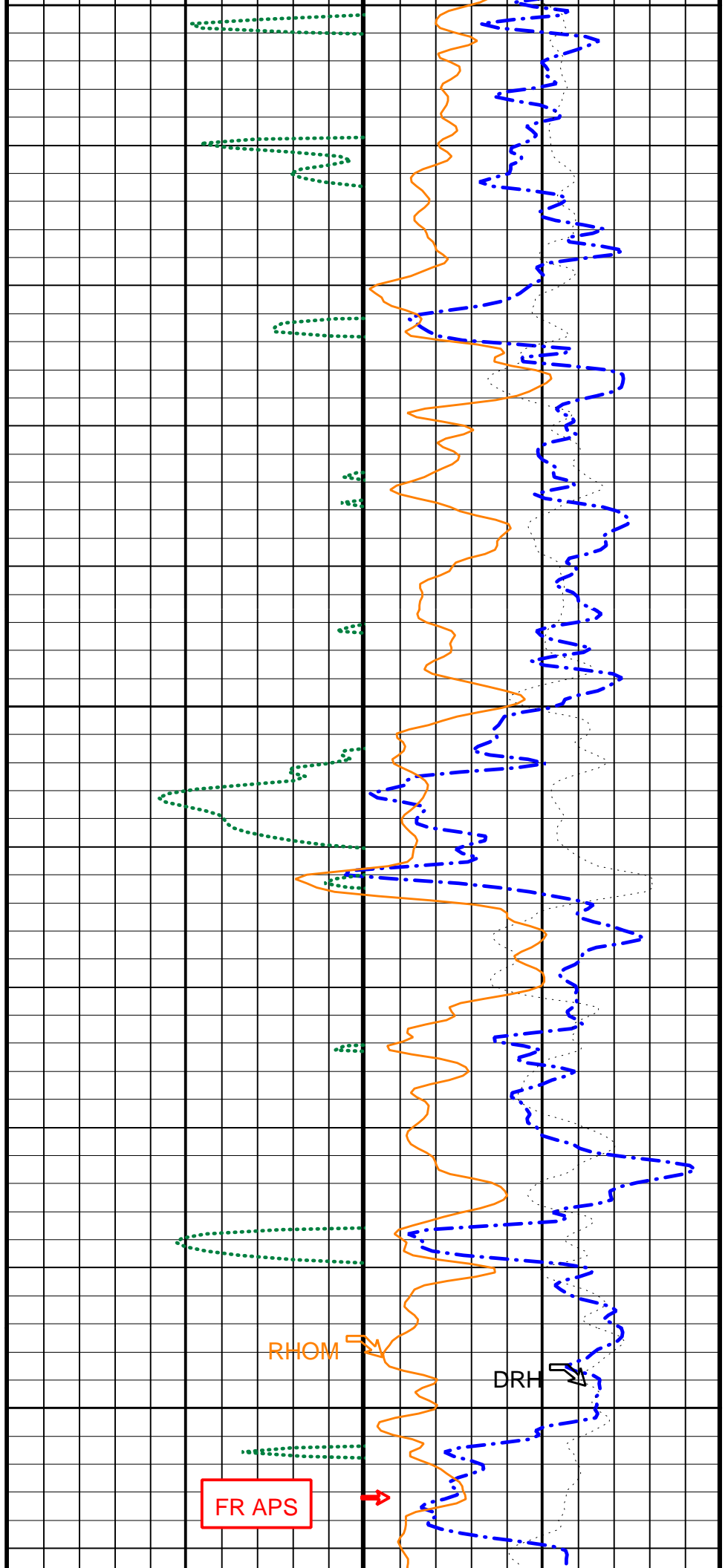
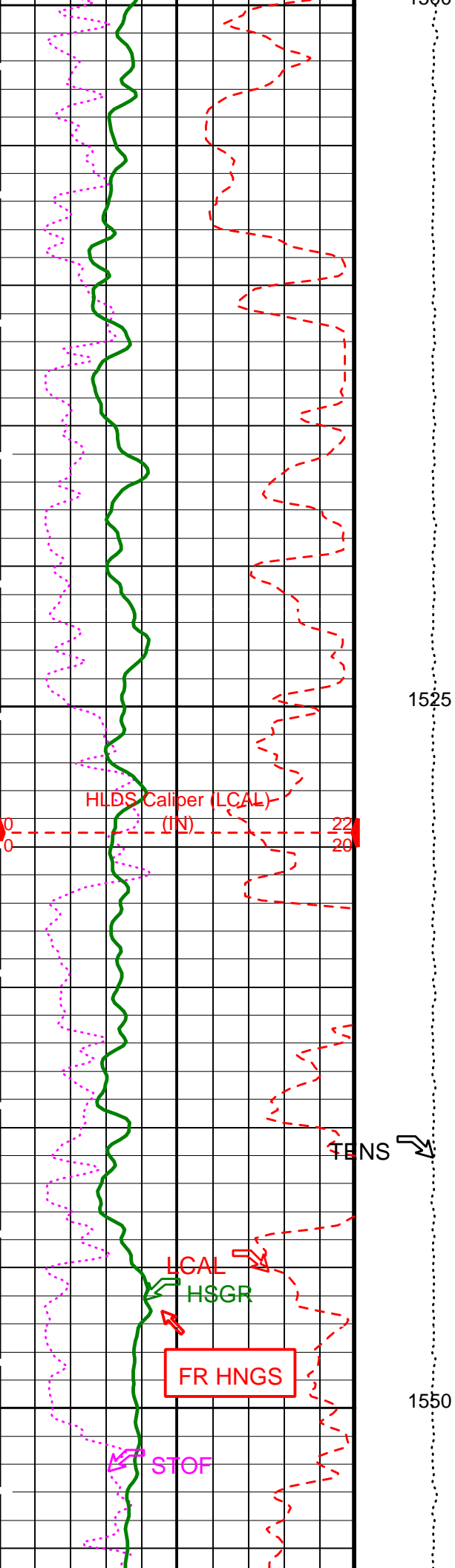


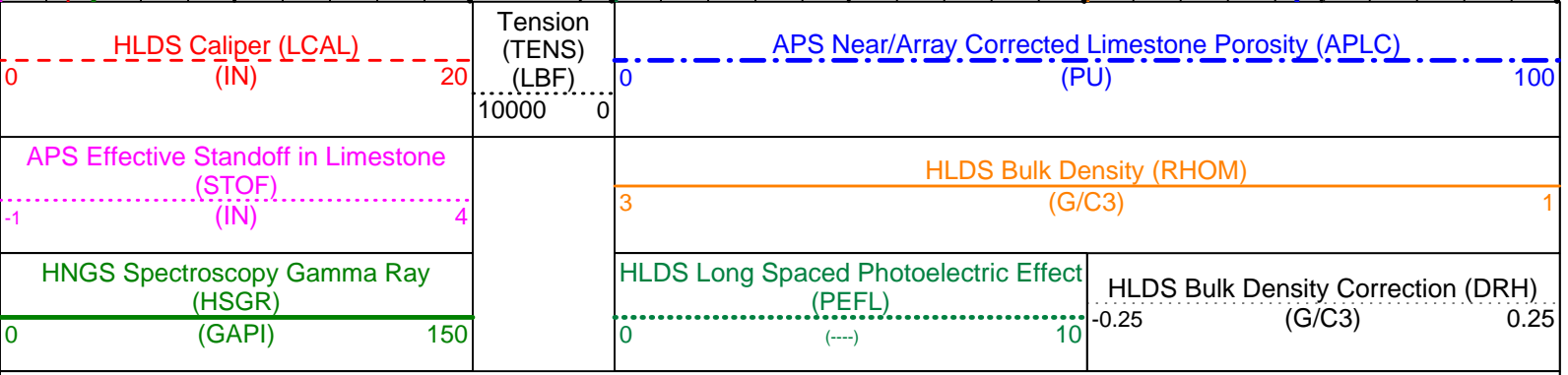
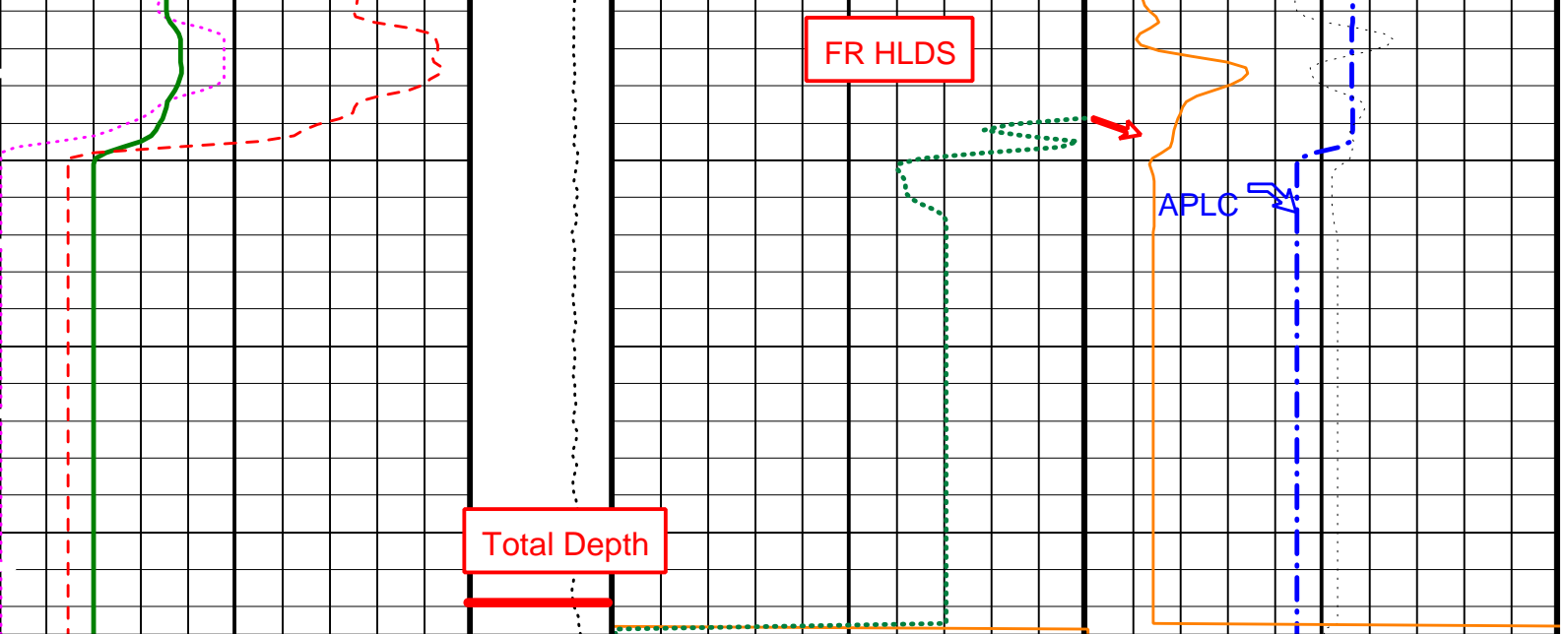
1450

1475

1500







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)	60 DEGF
GCSE	Generalized Caliper Selection	LCAL
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
HLDS: Hostile Litho-Density Sonde		
DHC	Density Hole Correction	BS
DPPM	Density Porosity Processing Mode	HIRS
FD	Fluid Density	1 G/C3
LATC	HLDS Activation Correction	ON
MDEN	Matrix Density	2.71 G/C3
APS-C: Accelerator-Porosity Tool		
AASD	APS Software Version	5
ADSO	APS Thermal and Array Detectors High Voltage Setting	1972.6 V
AFSD	APS Array Detectors Data Source Switch	Both
AHCS	APS Far Detector High Voltage Setting	2081.84 V
AHSS	APS Holedsize Correction Source	GCSE
AMTY	APS Holedsize Correction Switch	ON
ANSD	APS Environmental Corrections Mud Type	WaterBaseBarite
ASOS	APS Near Detector High Voltage Setting	1741.14 V
ATSS	APS Standoff Correction Switch	ON
BHS	APS Temperature-Pressure-Salinity Correction Switch	OFF
BHT	Borehole Status	OPEN
BHT	Bottom Hole Temperature (used in calculations)	60 DEGF
DPPM	Density Porosity Processing Mode	HIRS
FSAL	Formation Salinity	3000 PPM
GCSE	Generalized Caliper Selection	LCAL
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	0.989174
NARC	APS Near/Far Calibration Ratio	0.965337

SHT	HNGS-BA: Hostile Natural Gamma Ray Sonde	Surface Hole Temperature	68	DEGF
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)	60	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	LCAL	
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	-0.0007078	
HALF		HNGS Alpha Filter Length	60	IN
HCRB		HNGS Apply Borehole Potassium Correction	NONE	
HMWM		Mud Weighting Material	BARI	
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	0.96636	
VBA2		HNGS Detector 2 Variable Barite Factor Running Average	0.977963	
	HOLEV: Integrated Hole/Cement Volume			
BHS		Borehole Status	OPEN	
BHT		Bottom Hole Temperature (used in calculations)	60	DEGF
GCSE		Generalized Caliper Selection	LCAL	
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	9.875	IN
BSAL		Borehole Salinity	32000.00	PPM
CSIZ		Current Casing Size	0.000	IN
CWEI		Casing Weight	0.00	LB/F
DFD		Drilling Fluid Density	1.26	G/C3
TD		Total Depth	1579	M

Format: APSLiquidPorosity_1 Vertical Scale: 1:200 Graphics File Created: 14-Oct-2005 17:36

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

Output DLIS Files

DEFAULT PI_LDL_APS_NGS_008LUP FN:7 PRODUCER 14-Oct-2005 17:36

Company: Lamont Doherty

Schlumberger

Well: IODP EXP 311 Site U1328C

Field: CAS-06A

Country: Canada

Ocean: Pacific

APS/HLDS Porosity