

<div><div><div>Company: Lamont Doherty</div><div>Well: ODP Leg 202, Site 1241B</div><div>Field: Cocos Ridge</div><div>Country: Costa Rica</div></div><div><div>Ocean: Pacific Ocean</div></div></div>									
<div>Country: Costa Rica</div> <div>Field: Cocos Ridge</div> <div>Location: Rig- Joides Resolution</div> <div>Well: ODP Leg 202, Site 1241B</div> <div>Company: Lamont Doherty</div>					<div>HLDS/APS Porosity Log</div>				
<div>LOCATION</div>					<div>Elev.: K.B. 11.3 m</div> <div>G.L. -2037.1 m</div> <div>D.F. 11 m</div>				
<div>Rig- Joides Resolution</div>					<div>Permanent Datum: GROUND LEVEL</div> <div>Log Measured From: DES</div> <div>Drilling Measured From: DES</div>				
<div>API Serial No.</div>			<div>Max. Hole Devi.</div>		<div>Longitude</div>		<div>Latitude</div>		
<div>88 28.6827 W</div>			<div>5 50.5698 N</div>						
<div>Logging Date</div>									
<div>Run Number</div>					<div>1</div>				
<div>Depth Driller</div>					<div>2432.1 m</div>				
<div>Schlumberger Depth</div>					<div>2432 m</div>				
<div>Bottom Log Interval</div>					<div>2430 m</div>				
<div>Top Log Interval</div>					<div>2023.1 m</div>				
<div>Casing Driller Size @ Depth</div>					<div>0.000 in @ 2119.1 m</div>				
<div>Casing Schlumberger</div>					<div>2118 m @</div>				
<div>Bit Size</div>					<div>11.437 in</div>				
<div>Type Fluid In Hole</div>					<div>Sepioite</div>				
<div>Density</div>					<div>1.066 g/cm3</div>				
<div>Fluid Loss</div>					<div>PH</div>				
<div>Source Of Sample</div>									
<div>RM @ Measured Temperature</div>					<div>@ 23 degC</div>				
<div>RMF @ Measured Temperature</div>					<div>@</div>				
<div>RMC @ Measured Temperature</div>					<div>@</div>				
<div>Source RMF</div>					<div>RMC</div>				
<div>RM @ MRT</div>					<div>RMF @ MRT</div>				
<div>Maximum Recorded Temperatures</div>									
<div>Circulation Stopped</div>					<div>Time 5/24/02 2300</div>				
<div>Logger On Bottom</div>					<div>Time 5/24/02 See Log</div>				
<div>Unit Number</div>					<div>99 Houston</div>				
<div>Recorded By</div>					<div>Steve Kittredge</div>				
<div>Witnessed By</div>					<div>Ule Nimmernann</div>				

Lamont Doherty

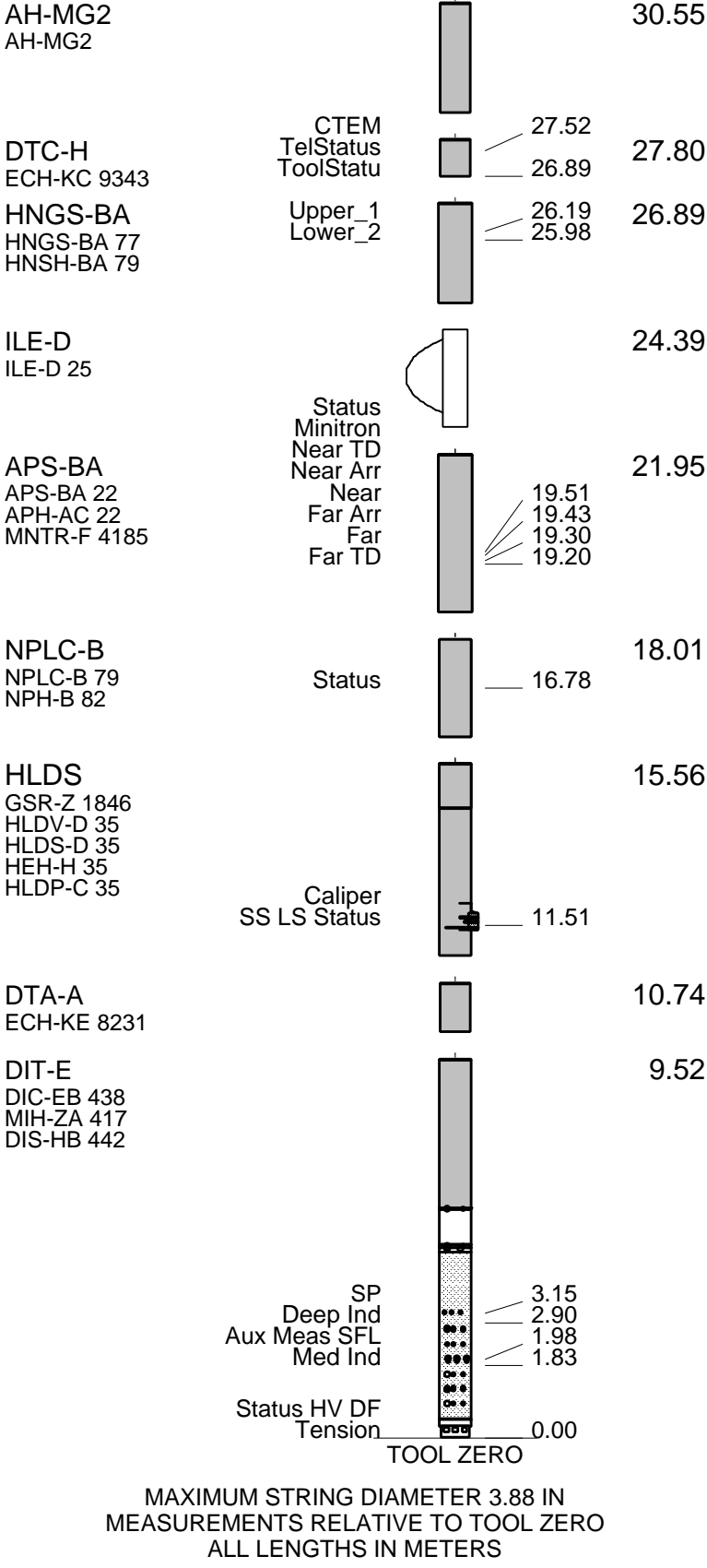
ODP Leg 202, Site 1241B

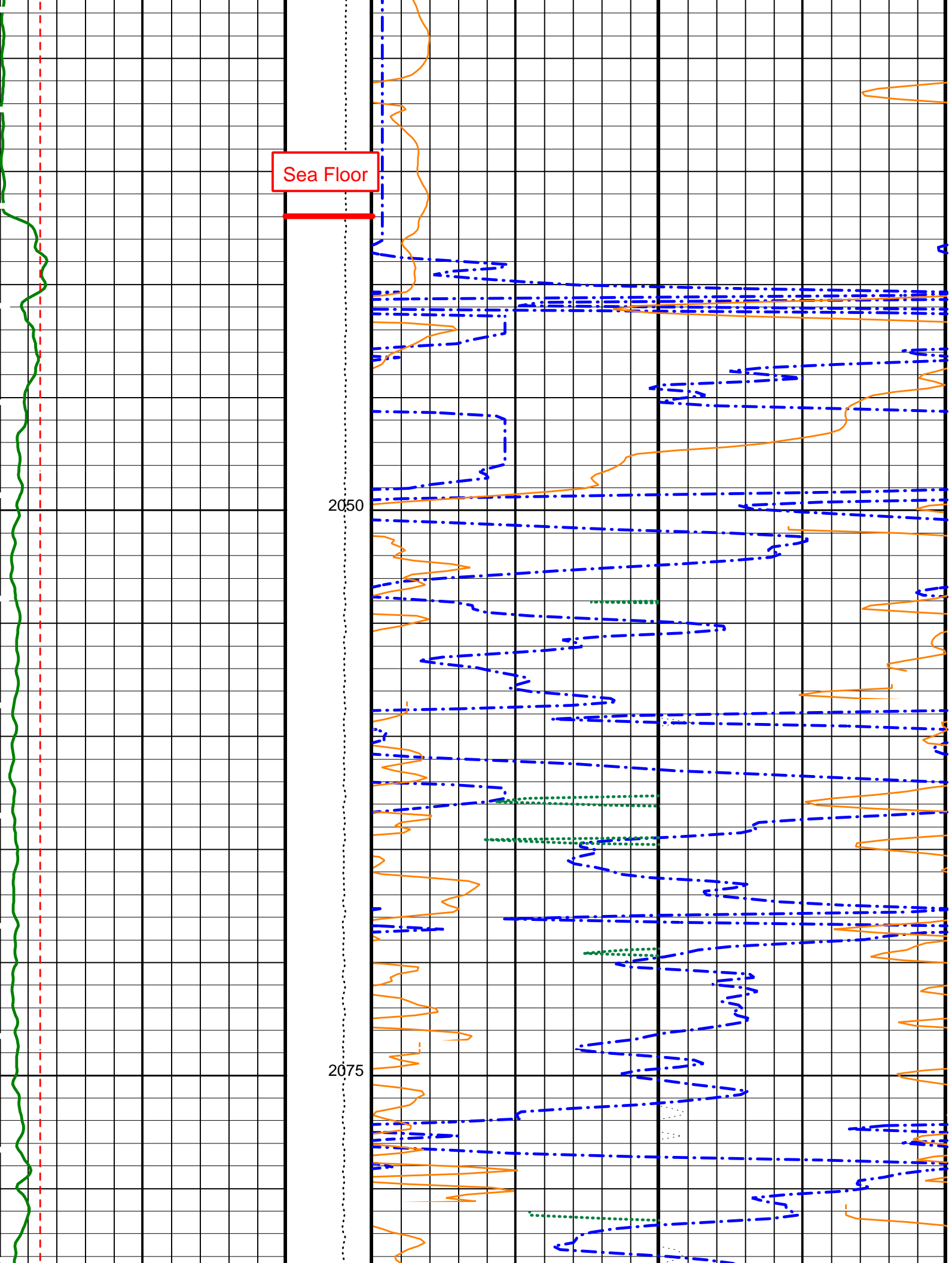
Cocos Ridge

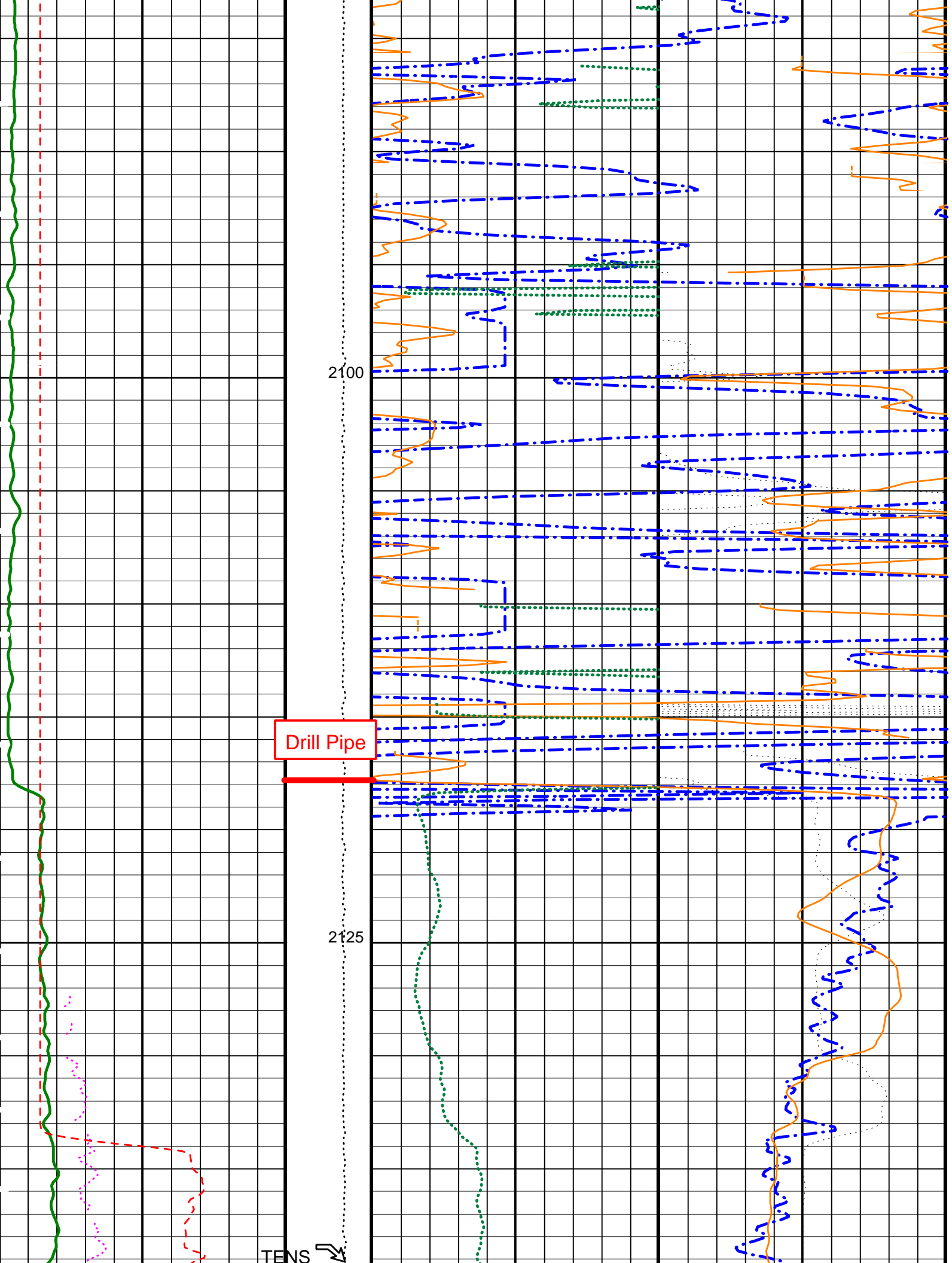
Costa Rica Ocean: Pacific Ocean

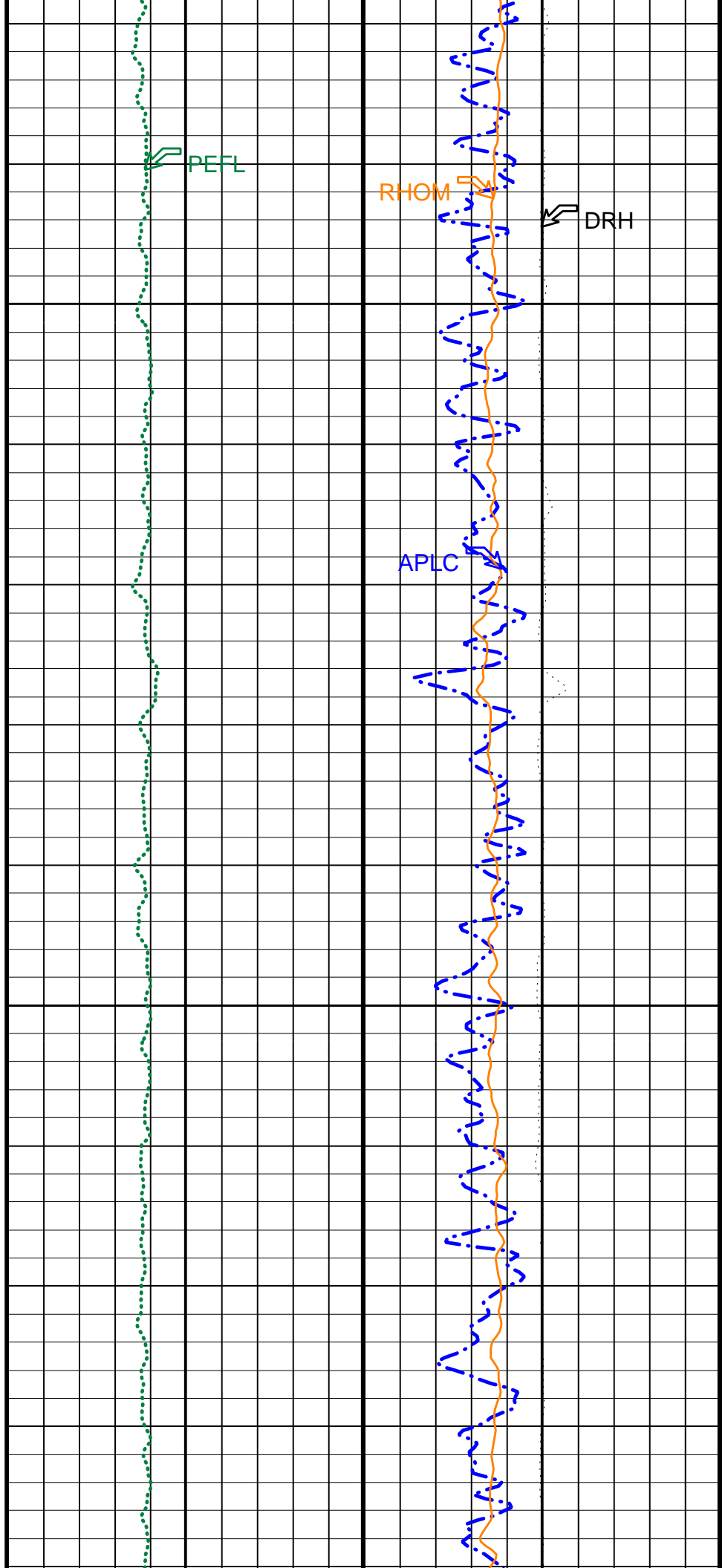
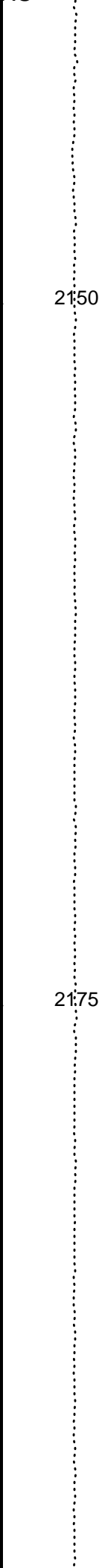
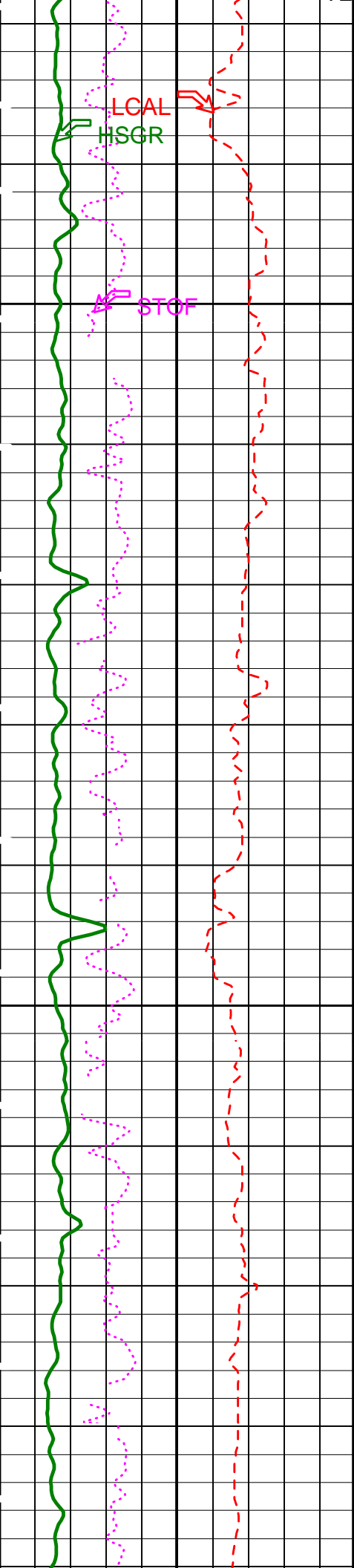
HLLDS/APS Porosity Log									
Country:		Costa Rica							
Field:		Cocos Ridge							
Location:		Rig- Joides Resolution							
Well:		ODP Leg 202, Site 1241B							
Company:		Lamont Doherty							
LOCATION		Rig- Joides Resolution		Elev.:		K.B.		11.3 m	
Permanent Datum:		GROUND LEVEL		Elev.:		G.L.		-2037.1 m	
Log Measured From:		DES		above Perm. Datum		D.F.		11 m	
Drilling Measured From:		DES							
API Serial No.		Max. Hole Dev.		Longitude		Latitude			
				88 28.6827 W		5 50.5698 N			
Logging Date		1							
Run Number		2432.1 m							
Depth Driller		2432 m							
Schlumberger Depth		2430 m							
Bottom Log Interval		2023.1 m							
Top Log Interval		0.000 in		@		2119.1 m		@	
Casing Driller Size @ Depth		2118 m							
Casing Schlumberger		11.437 in							
Bit Size		Septolite							
Type Fluid In Hole		1.066 g/cm3							
Density		PH							
Fluid Loss									
Source Of Sample		@		23 degC		@		@	
RM @ Measured Temperature		@				@		@	
RMF @ Measured Temperature		@				@		@	
RMC @ Measured Temperature		@				@		@	
Source RMF		RMC							
RM @ MRT		RMC @ MRT		@		@		@	
Maximum Recorded Temperatures		5/24/02		2300					
Circulation Stopped		5/24/02		See Log					
Logger On Bottom		99		Houston					
Unit Number		Location							
Recorded By		Steve Kittredge							
Witnessed By		Ule Nimmernann							

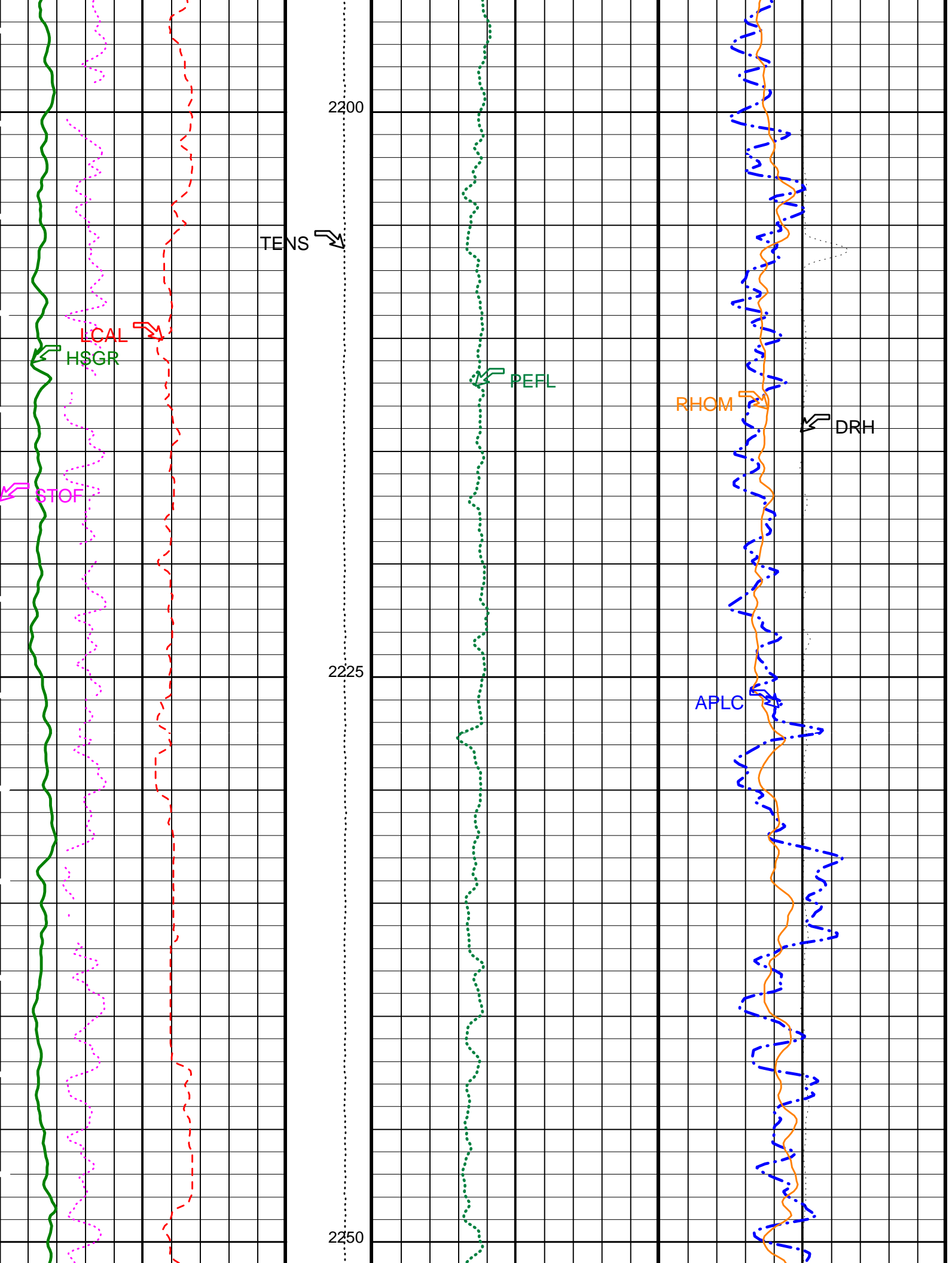
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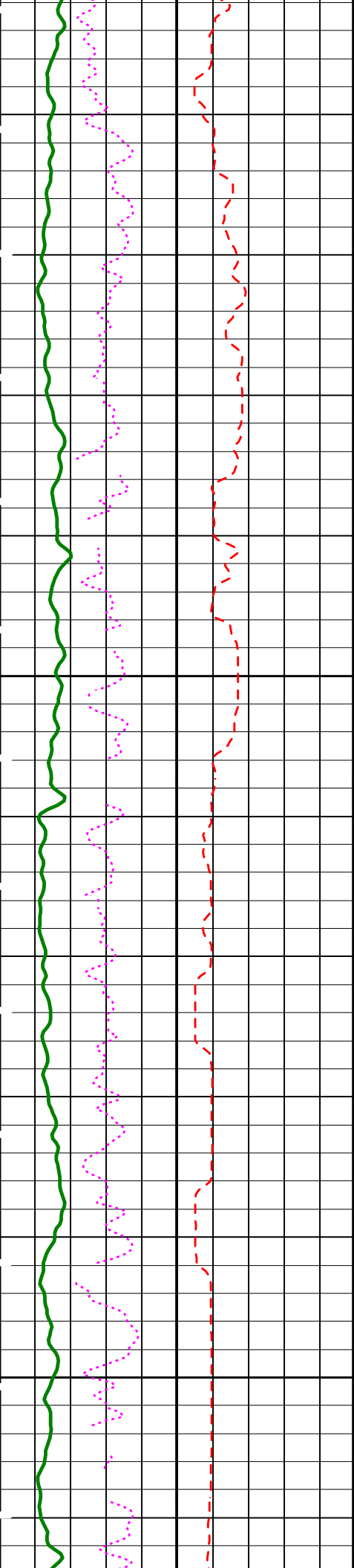






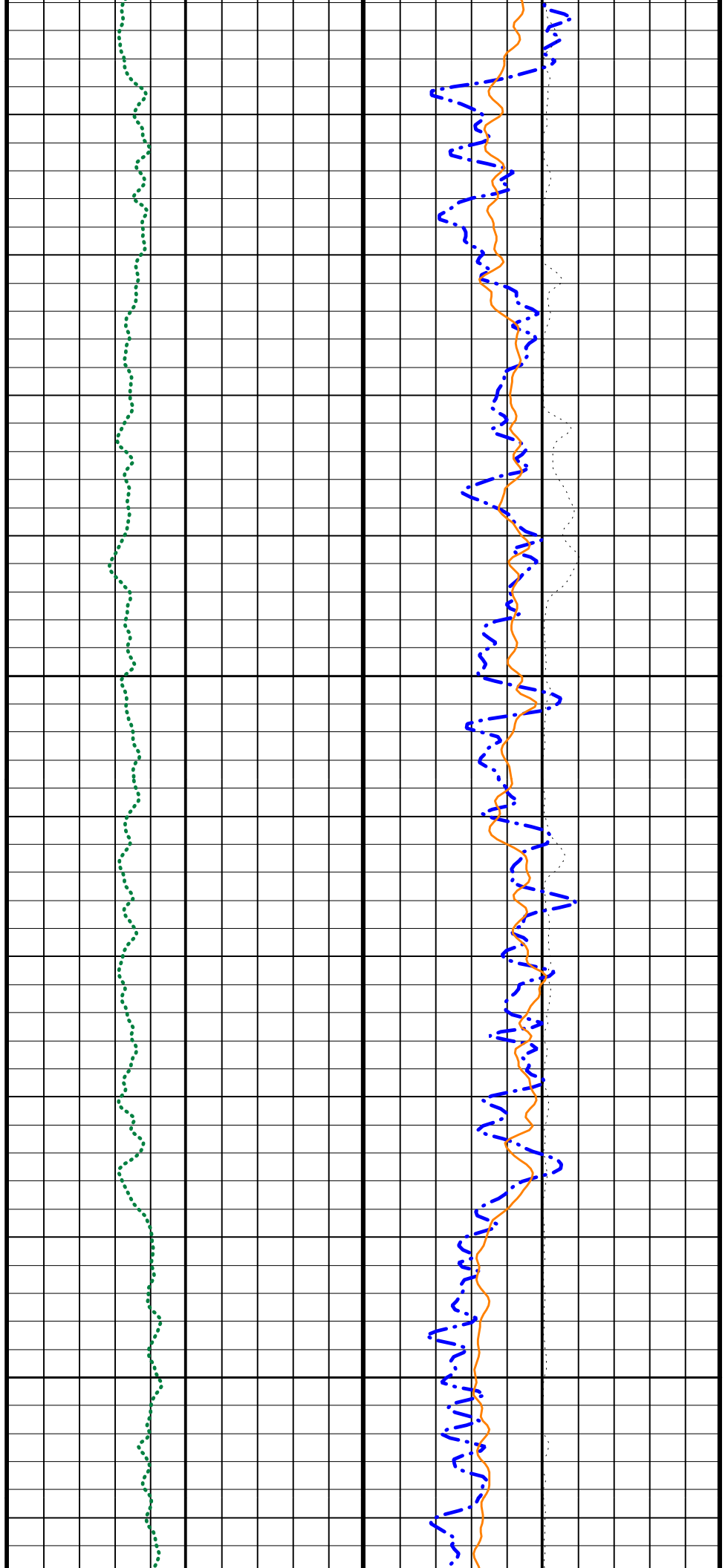


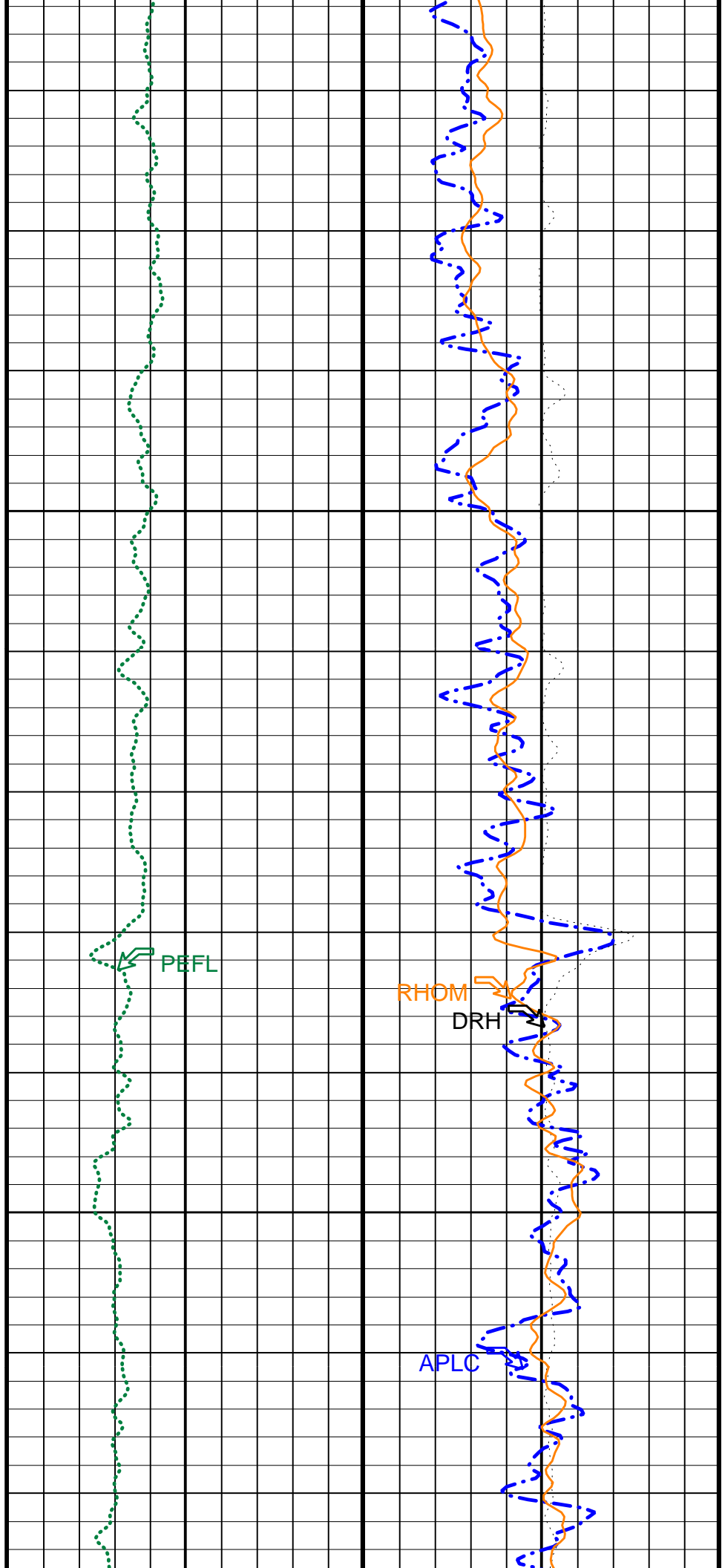
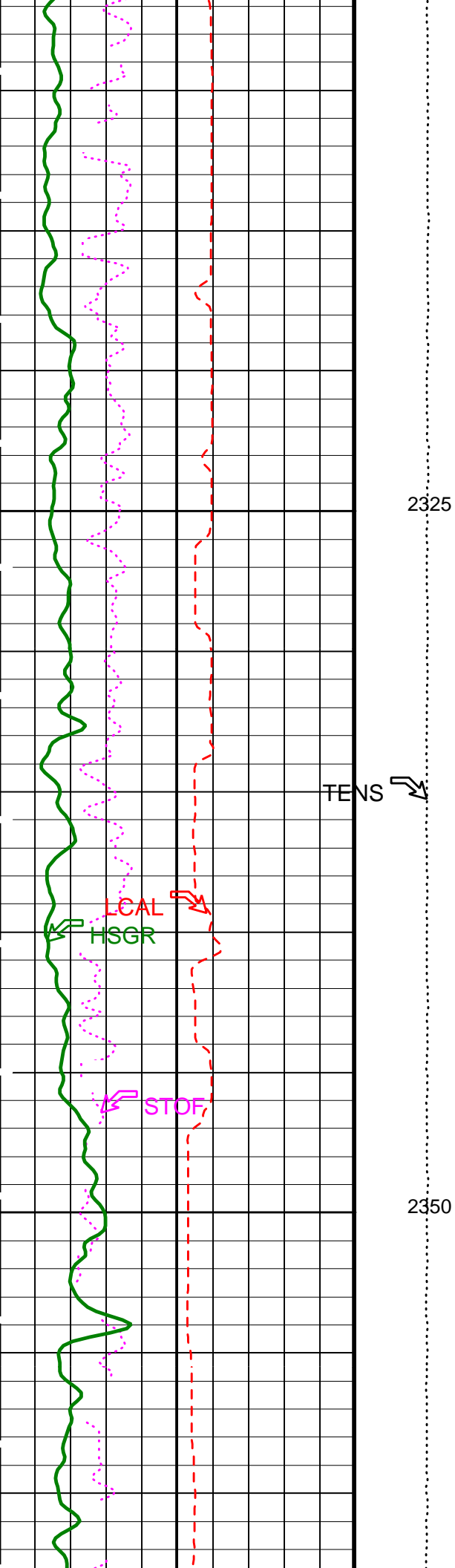


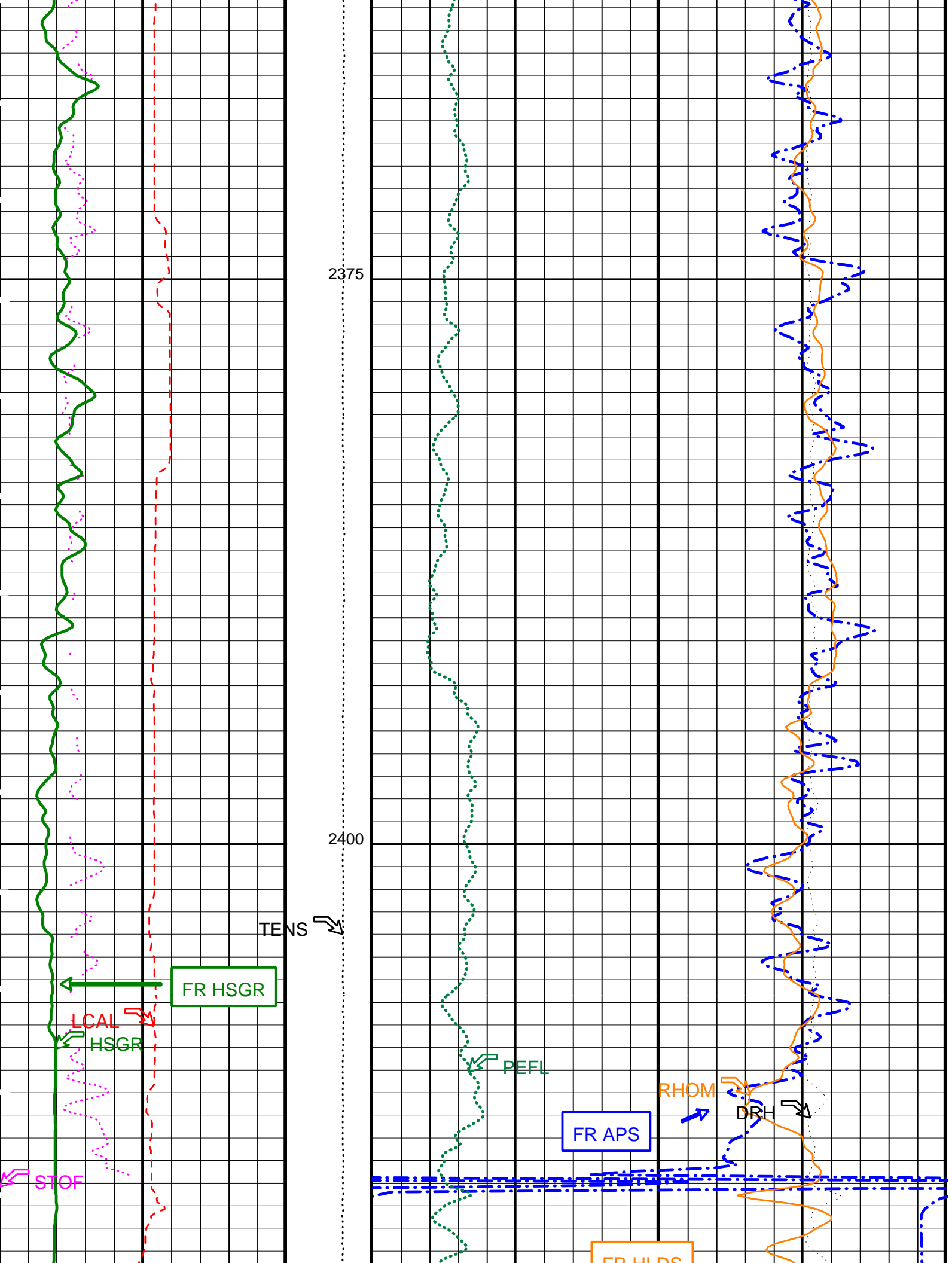


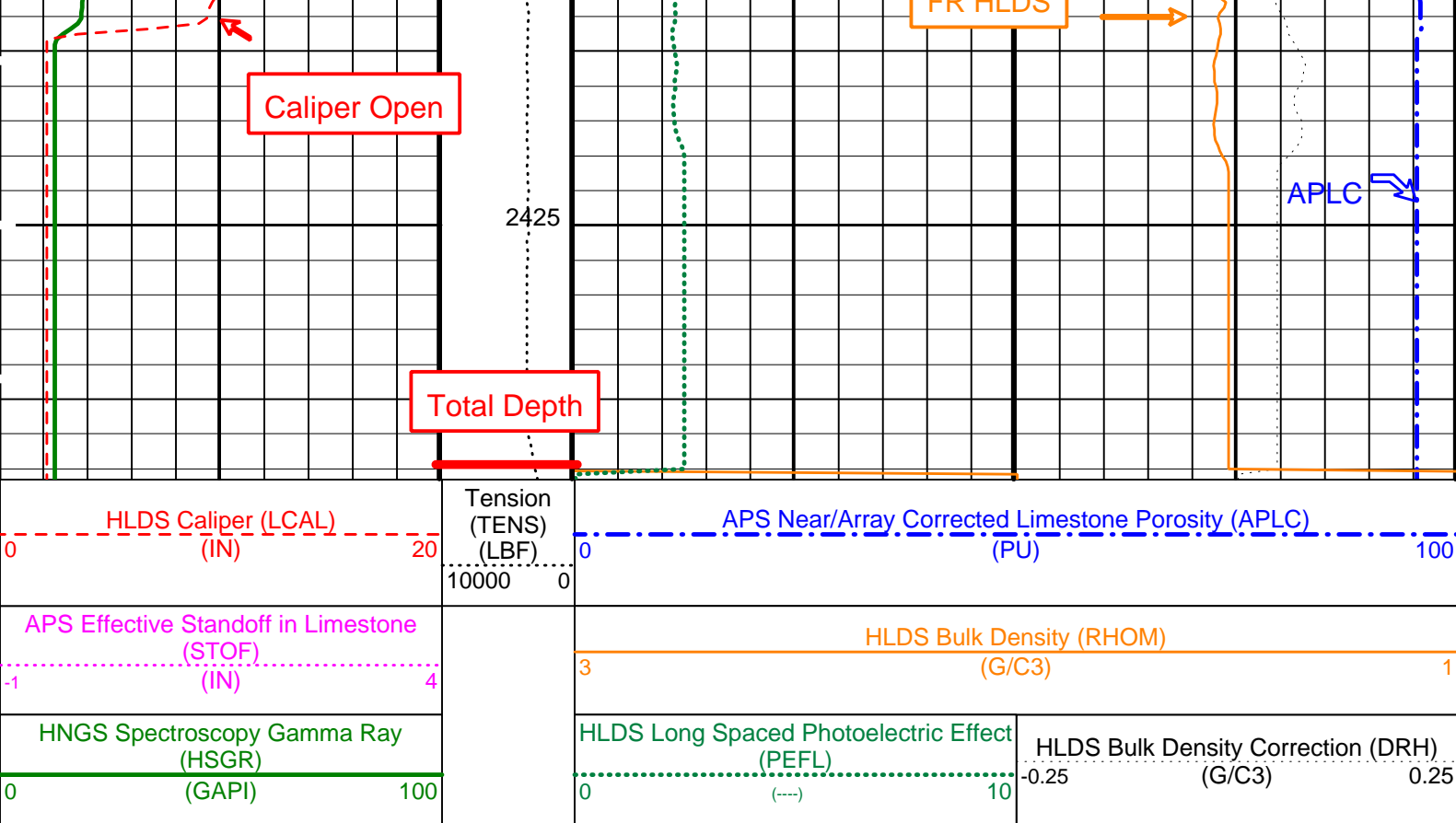
2275

2300









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 DEGC
GCSE	Generalized Caliper Selection	LCAL
GDEV	Average Angular Deviation of Borehole from Normal	0 DEG
GGRD	Geothermal Gradient	0.018227 DC/M
GTSE	Generalized Temperature Selection	LINEAR_ESTIMATE
SHT	Surface Hole Temperature	20 DEGC
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-BA: Accelerator-Porosity Tool		
APS Software Version		
AASD	APS Thermal and Array Detectors High Voltage Setting	5
ABOS	APS Neutron Burst-Off Background Subtraction Switch	1968.98 V
ADSO	APS Array Detectors Data Source Switch	ON
AFSD	APS Far Detector High Voltage Setting	Both
AHCS	APS Holesize Correction Source	2052.03 V
AHSS	APS Holesize Correction Switch	GCSE
AMTY	APS Environmental Corrections Mud Type	ON
ANSD	APS Near Detector High Voltage Setting	WaterBaseBarite
ASOS	APS Standoff Correction Switch	1748.3 V
ATSS	APS Temperature-Pressure-Salinity Correction Switch	ON
BHS	Borehole Status	OFF
BHT	Bottom Hole Temperature (used in calculations)	OPEN
DPPM	Density Porosity Processing Mode	40 DEGC
FSAL	Formation Salinity	HIRS
GCSE	Generalized Caliper Selection	35000 PPM
GDEV	Average Angular Deviation of Borehole from Normal	LCAL
GGRD	Geothermal Gradient	0 DEG
GTSE	Generalized Temperature Selection	0.018227 DC/M
NARC	APS Near/Array Calibration Ratio	LINEAR_ESTIMATE
NFRC	APS Near/Far Calibration Ratio	1.06419
SHT	Surface Hole Temperature	0.898948
HNGS-BA: Hostile Natural Gamma Ray Sonde		
BAR1	HNGS Detector 1 Barite Constant	20 DEGC
BAR2	HNGS Detector 2 Barite Constant	1

BHK	HNGS Borehole Potassium Concentration	0	
BHS	Borehole Status	OPEN	
BHT	Bottom Hole Temperature (used in calculations)	40	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
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	-0.00273145	
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	20	DEGC
TPOS	Tool Position	ECCE	
VBA1	HNGS Detector 1 Variable Barite Factor Running Average	0.978732	
VBA2	HNGS Detector 2 Variable Barite Factor Running Average	0.998824	
System and Miscellaneous			
BS	Bit Size	11.437	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
TD	Total Depth	2432	M

Format: APSLiquidPorosity_1

Vertical Scale: 1:200

Graphics File Created: 24-May-2002 04:14

OP System Version: 10C0-306			
MCM			
DIT-E	10C0-306	DTA-A	10C0-306
HLDS	10C0-306	NPLC-B	10C0-306
APS-BA	10C0-306	HNGS-BA	10C0-306
DTC-H	10C0-306		

Output DLIS Files			
DEFAULT	PI_LDL_APS_NGS_005LUP	FN:5	PRODUCER 24-May-2002 04:14
TCOMBO_CUST	PI_LDL_APS_NGS_005LUP	FN:6	PRODUCER 24-May-2002 04:14

Company:	Lamont Doherty	Schlumberger
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Country:	Costa Rica	
Ocean:	Pacific Ocean	
HLDS/APS Porosity Log		