

6.75" LWD Service

Drilling Parameters

Recorded Mode Data



Company:IODP

Lamont - Doherty Earth Observatory

Well:U1378A

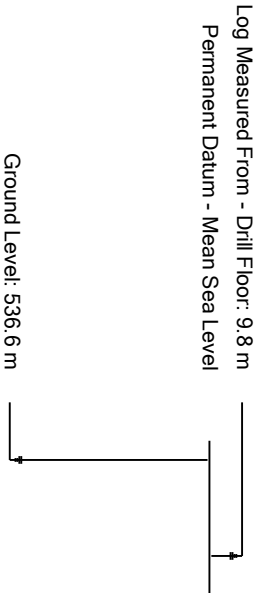
Field:Expedition 334

Rig Name:JOIDES Resolution

State:Puntarenas

Country:Costa Rica

Latitude:	8.59 degrees	Custom:	U1378A
Longitude:	-84.08 degrees	Rig Name:	JOIDES Resolution
Block:	Expedition 334	Rig Type:	Drill Ship
FL:	CRISP		
FL1:	n/a		
FL2:	n/a		



Acquisition Dates:	17 Mar 11 to 19 Mar 11	Other Services:	adnVISION
Log Interval:	3/17/2011 3:44:23 PM to 3/19/2011 9:09:21 PM	Telescope	arcVISION
Index Types:	Time		geoVISION
Index Scales:	15 cm / 3600 secs		
Depth Source:	Driller's Depth		
Depth Sensor:	DES		
Conveyance:	Drill Pipe		
Print Type:	Final		
Spud Date:	17-Mar-2011		

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 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.

Content

- Header
- Disclaimer
- Contents
- Borehole Size/Casing/Tubing Record
- Operational Run Summary
- Borehole Fluids
- Remarks and Equipment Summary
- Run1 U1378A
 - Integration Summary
 - Software Version
 - Composite Summary
 - Log (Drilling Mechanics Time RM)
 - Parameter Listing
- Calibration Report
- Survey Record
- Tail

Borehole Size/Casing Record

Bit						
Bit Size (in)	8.5					
Bottom Driller (m)	992					



Operational Run Summary

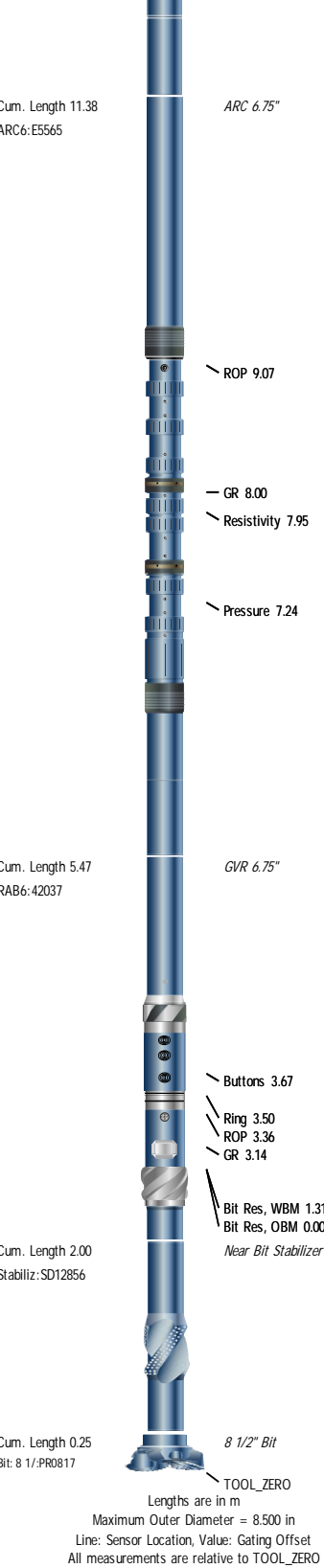
Parameter (unit)	Run1					
Date Log Started	17-Mar-2011					
Time Log Started	15:44:23					
Date Log Finished	19-Mar-2011					
Time Log Finished	21:09:21					
Bit Size (in)	8.500					
Bit Start Depth (m)	64.80					
Bit Stop Depth (m)	992.00					
Top Log Interval (m)	536.00					
Bottom Log Interval (m)	992.00					
Max Hole Deviation (deg)	0.09					
Azimuth of Max Deviation (deg)	355.97					
Logging Unit Number	n/a					
Logging Unit Location	n/a					
Recorded By	Garcia/Carrillo					
Witnessed By	Alberto Malinverno					
Service Order Number	11MED0004					

Borehole Fluids

Parameter (unit)	Run1					
Type Fluid	Water					
Max Recorded Temperature (degC)	NaN					
Source of Sample	Active Tank					
Salinity (ppm)	31737.15					
Density (g/cm3)	1.03					
Viscosity (s)						
Fluid Loss (cm3)						
pH						
Source Rmf						
Source Rmc	Pressed					
Rm @ Meas Temp (ohm.m@degC)	0.2 @ 23.89					
Rmf @ Meas Temp (ohm.m@degC)	0.15 @ 20					
Rmc @ Meas Temp (ohm.m@degC)						

Rm @ BHT (ohm.m@degC)	0.2 @ 25					
Rmf @ BHT (ohm.m@degC)	0.13 @ 25					
Rmc @ BHT (ohm.m@degC)	NaN @ 25					

Remarks and Equipment Summary						
Run1: Toolstring		Run1: Remarks				
<div> <div> <div>Cum. Length 25.27</div> <div>ADN6C:YJ56</div> </div> <div>  </div> <div> <div>ADN 6.75"</div> <div>Neutron 23.21</div> <div>Density 22.17</div> <div>UltraSonic 21.78</div> <div>ROP 21.02</div> </div> </div>		Gamma Ray corrected for Bit Size, Tool Diameter and Mud Weight.				
		Density processed on a Sandstone (2.65 g/cm3) matrix.				
		Neutron Source: A2145, Gamma Source: A0174				
<div> <div> <div>Cum. Length 19.06</div> <div>TELE675:E4155</div> </div> <div>  </div> <div> <div>MWD Telescope 6.75"</div> <div>D&I 14.88</div> <div>Vibration 13.88</div> <div>ROP 12.53</div> </div> </div>						



Run1

U1378A

Integration Summary

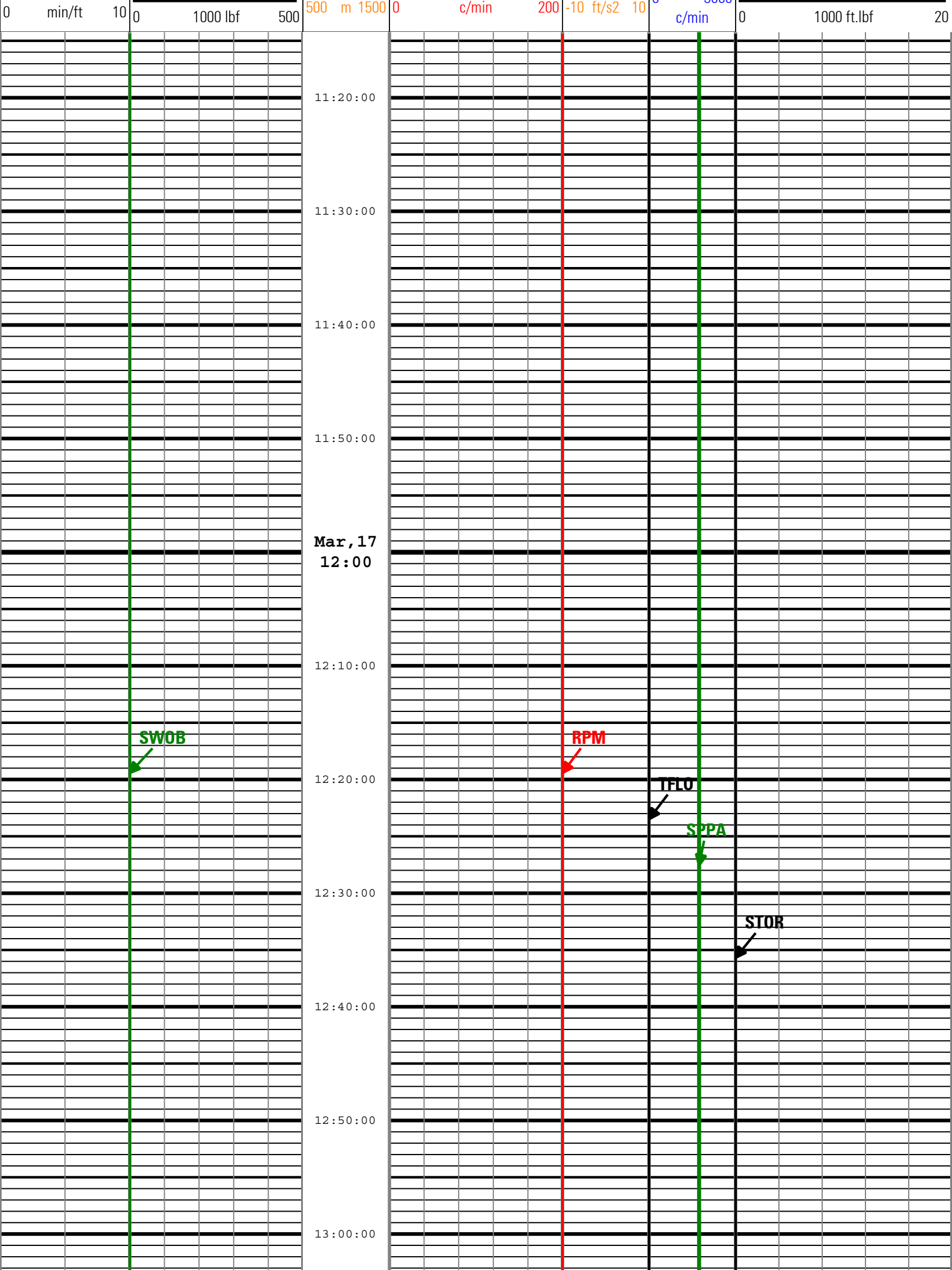
Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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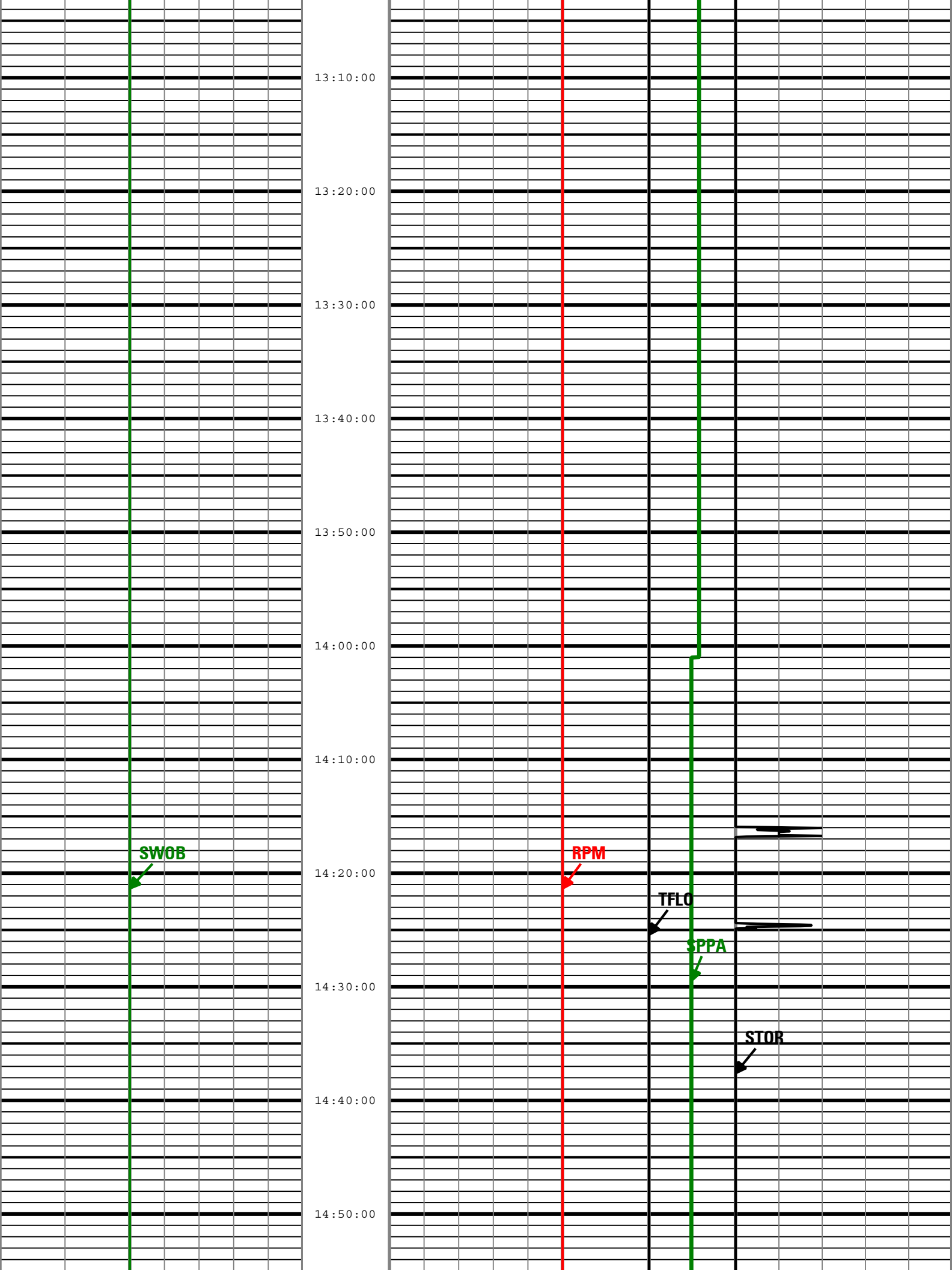
Software Version

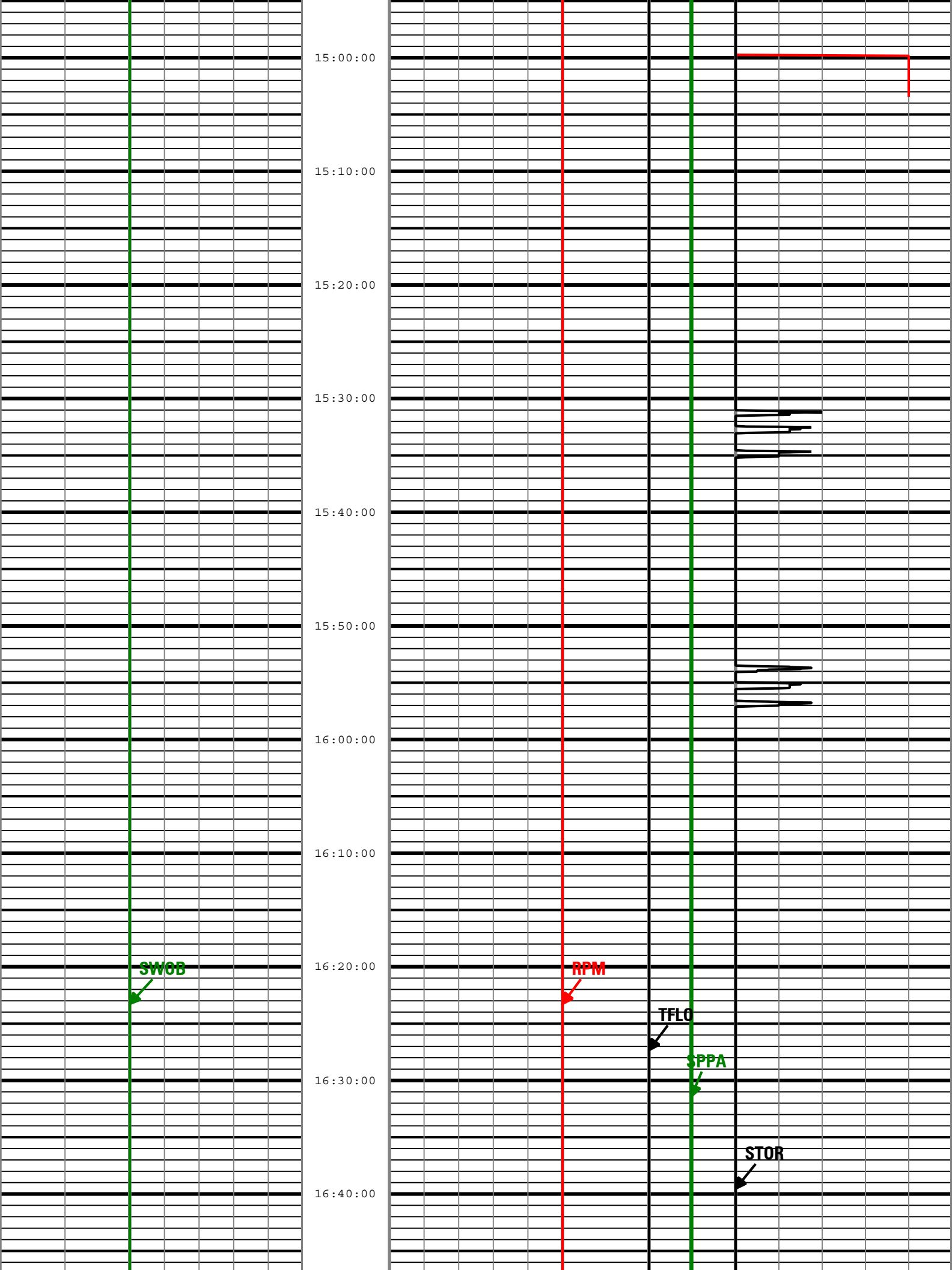
Acquisition System		Version		
MaxWell		2.1.6903.0		
Application Patch		SP-20110302-2.1.6903.1130		

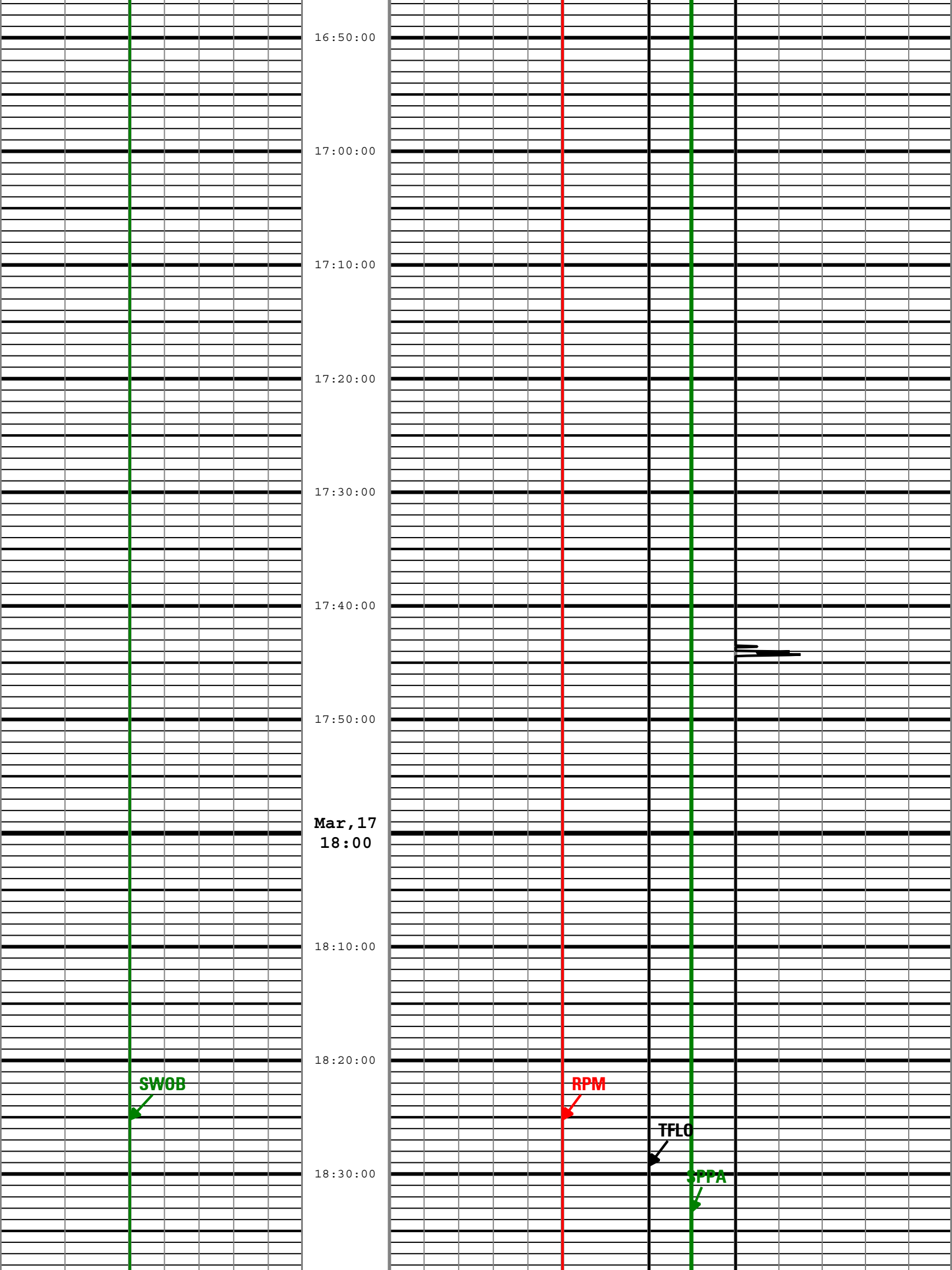
Computation	Description	Version
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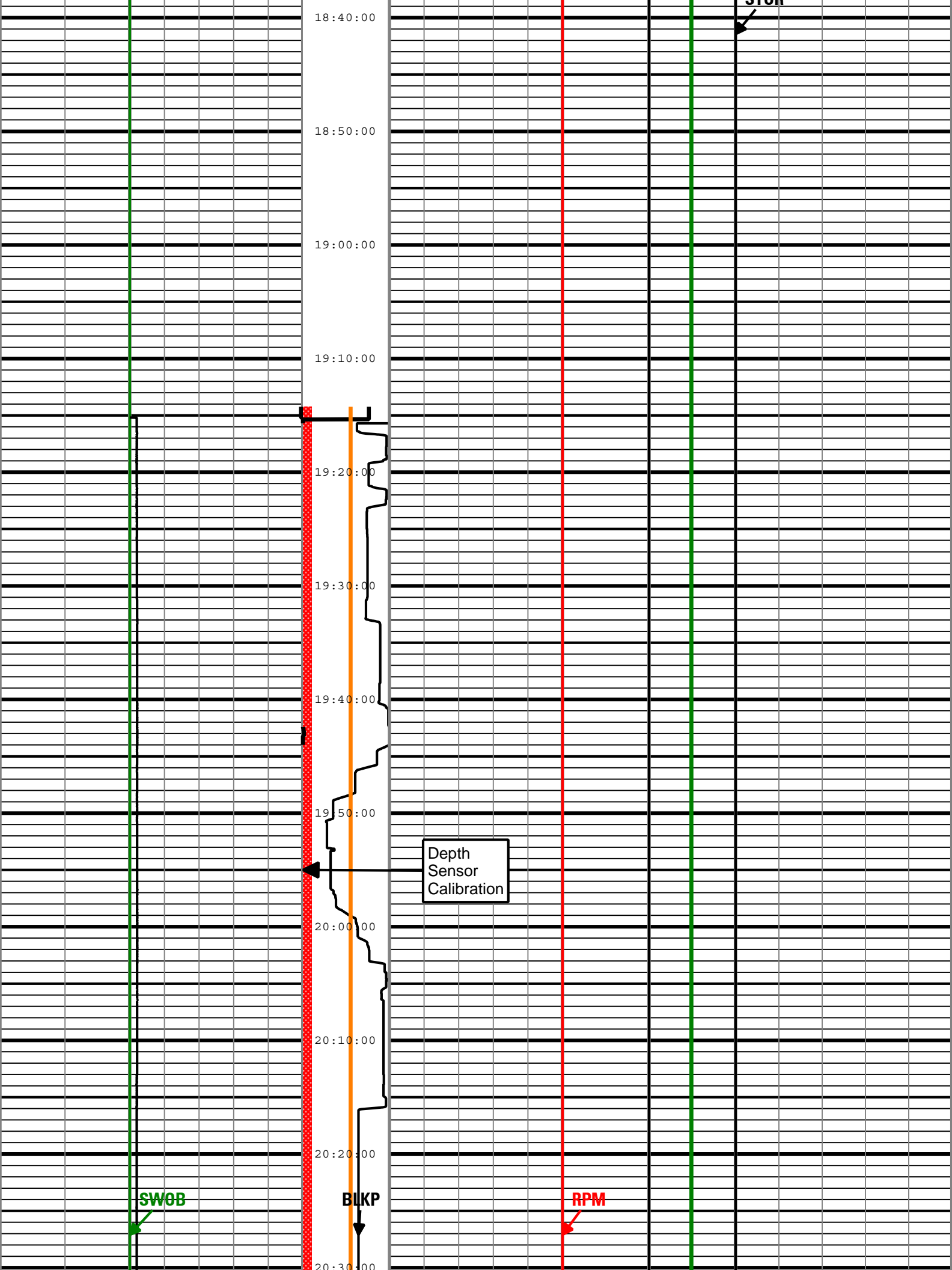
<div>Rate of Penetration (ROP) RT</div> <div>100 m/h 0</div>	<div>Surface Weight On Bit (SWOB) RT</div> <div>0 1000 lbf 40</div>	<div>Bit on Bottom</div> <div>Slips</div> <div>Height of block above rig floor (BLKP) RT</div> <div>40 m 0</div>	<div>Collar Rotational Speed (CRPM) TELE675 RM</div> <div>0 c/min 200</div>	<div>Rotational Speed (RPM) RT</div> <div>0 c/min 200</div>	<div>Total flow rate of all active pumps (TFLO) RT</div> <div>0 500 gal/min</div>	<div>Downhole Annulus Pressure (DHAP) ARC6 RM</div> <div>0 psi 2000</div>
				<div>Transverse RMS Vibration (VIB_LAT) TELE675 RM</div> <div>0 ft/s2 100</div>	<div>Standpipe Pressure (SPPA) RT</div> <div>1500 psi 2500</div>	<div>Downhole Annulus Temperature (DHAT) ARC6 RM</div> <div>0 degC 50</div>
				<div>RMS Vibration, X-Axis (VIB_X) TELE675 RM</div> <div>0 3000</div>	<div>MWD Turbine Rotation Speed (TRPM) TELE675 RM</div> <div>0 3000</div>	<div>Equivalent Circulating Density (ECD) ARC6 RM</div> <div>1 g/cm3 1.2</div>
				<div>Average Hookload (HKLA) RT</div> <div>0 100000 lbf 0</div>	<div>Stick Slip Indicator (STICK) TELE675 RM</div> <div>0 1000</div>	<div>Surface Torque (STOR) RT</div> <div>0 1000000 lb-ft 0</div>

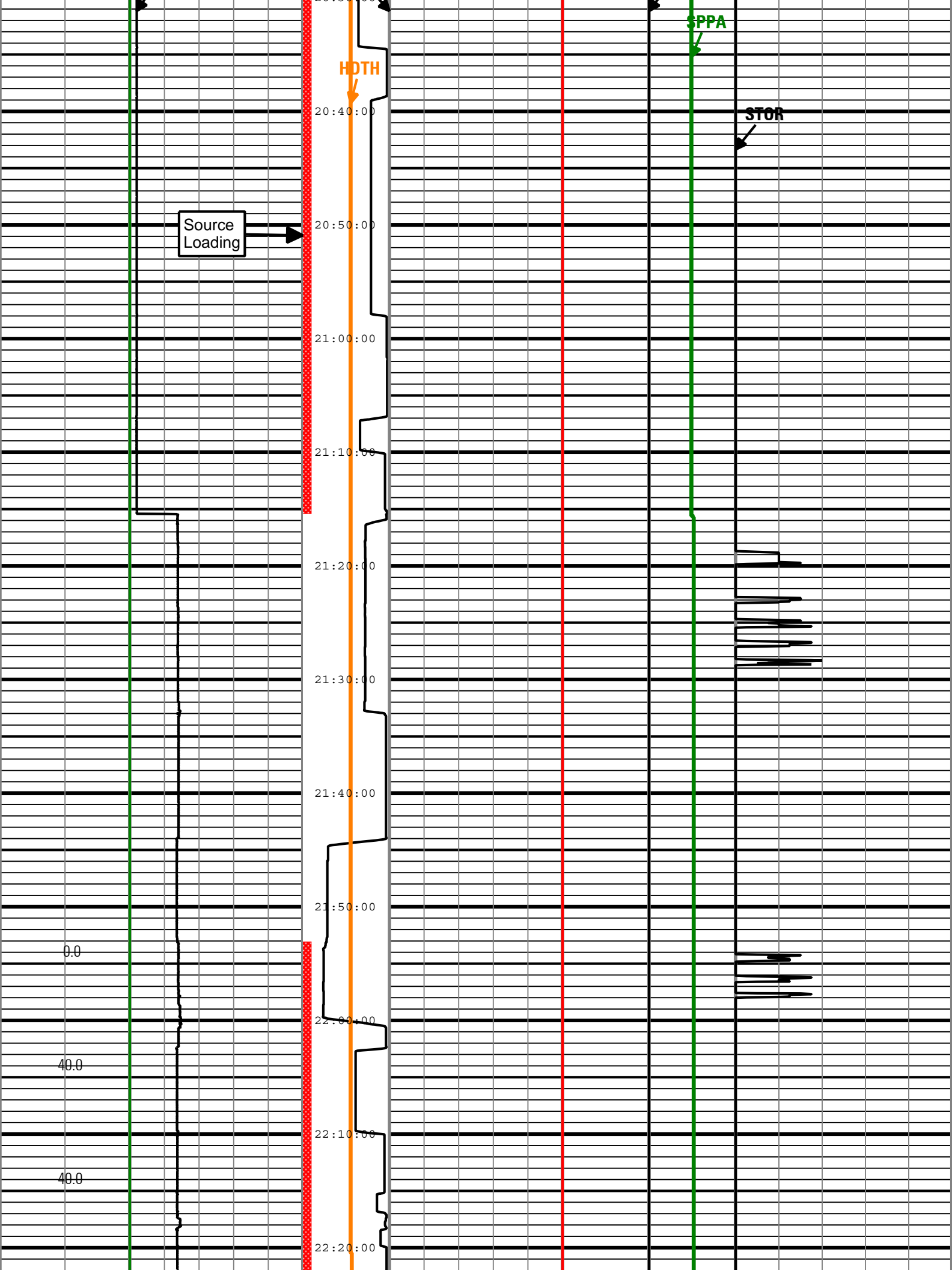


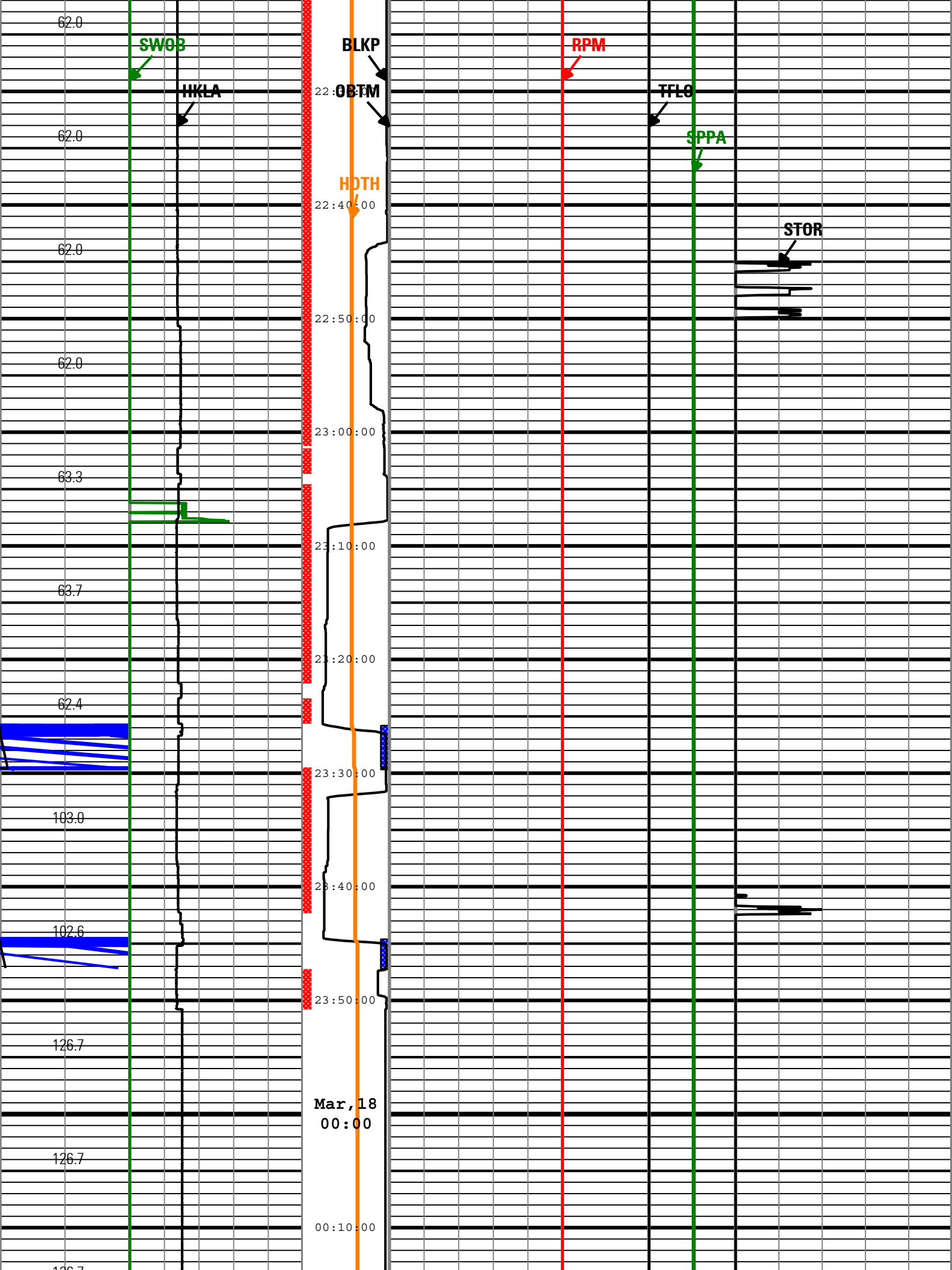


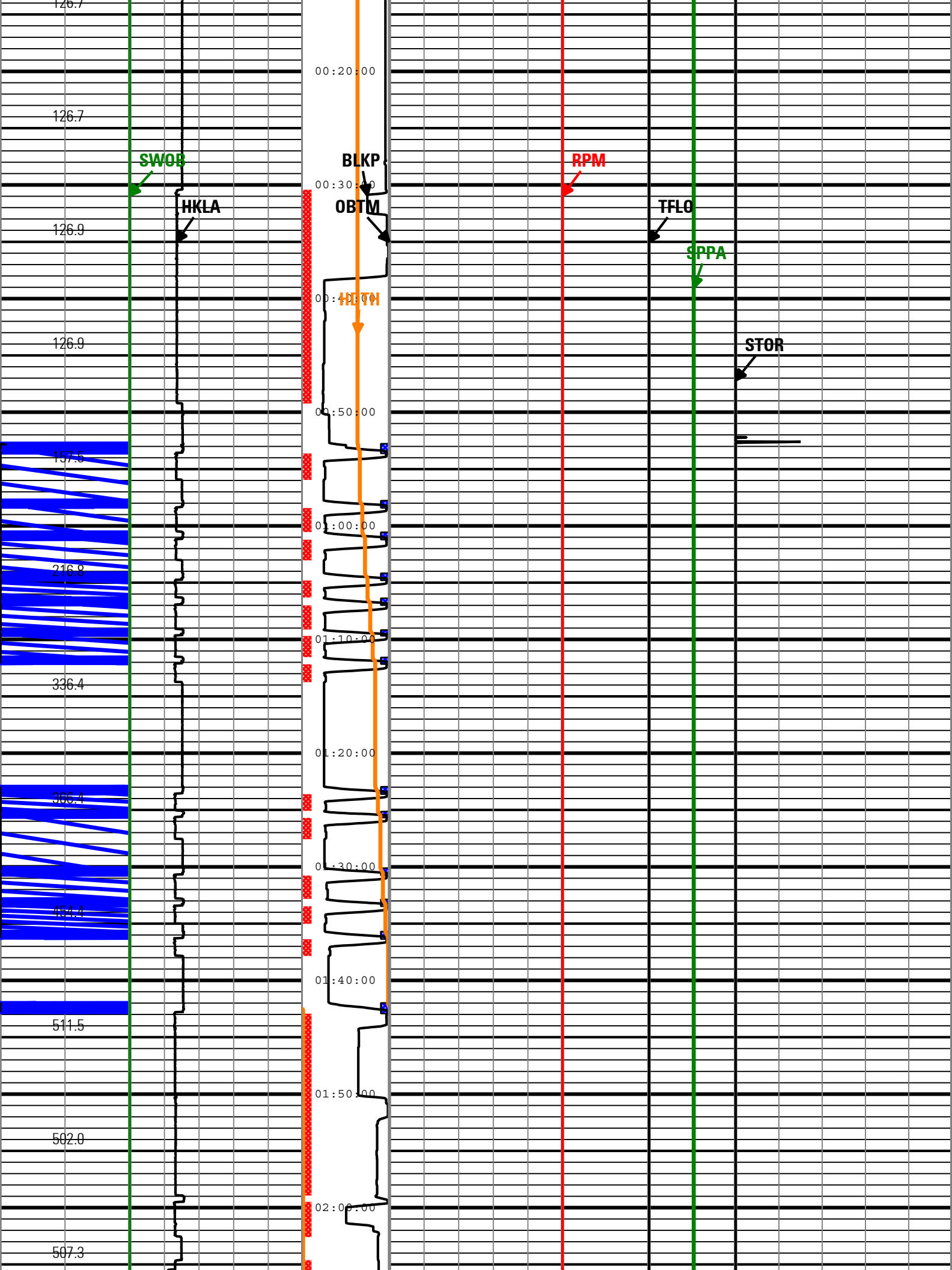


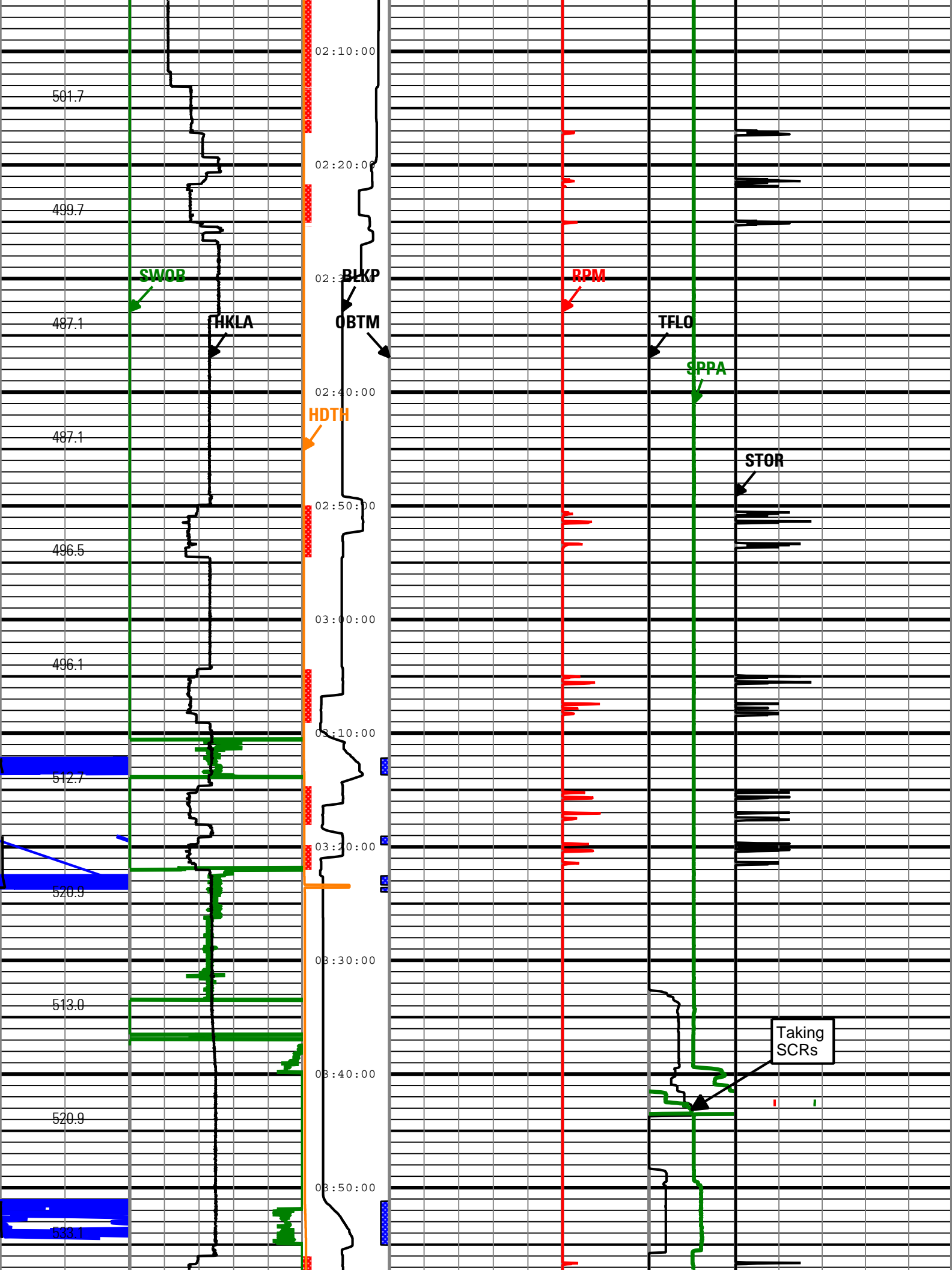


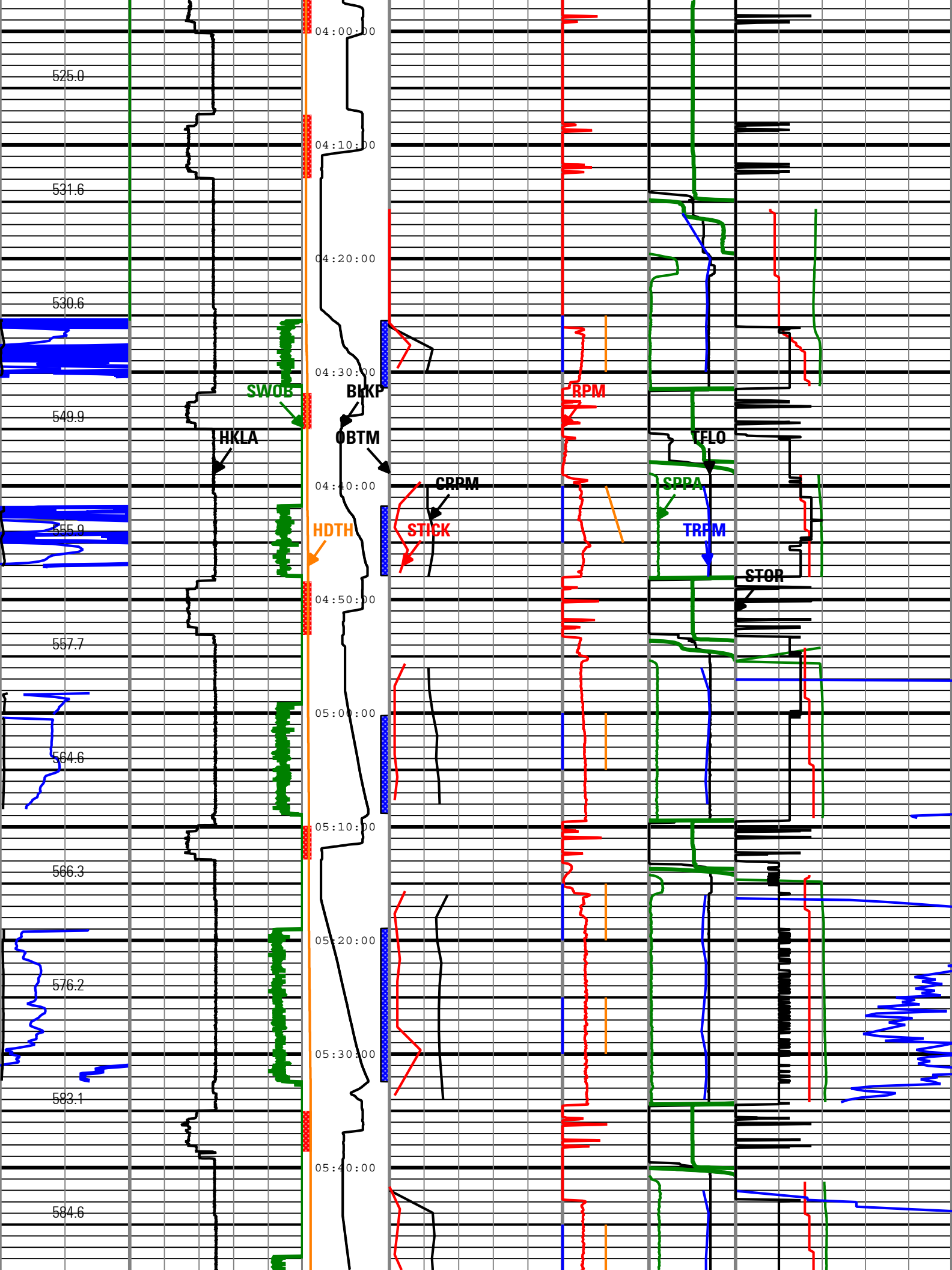


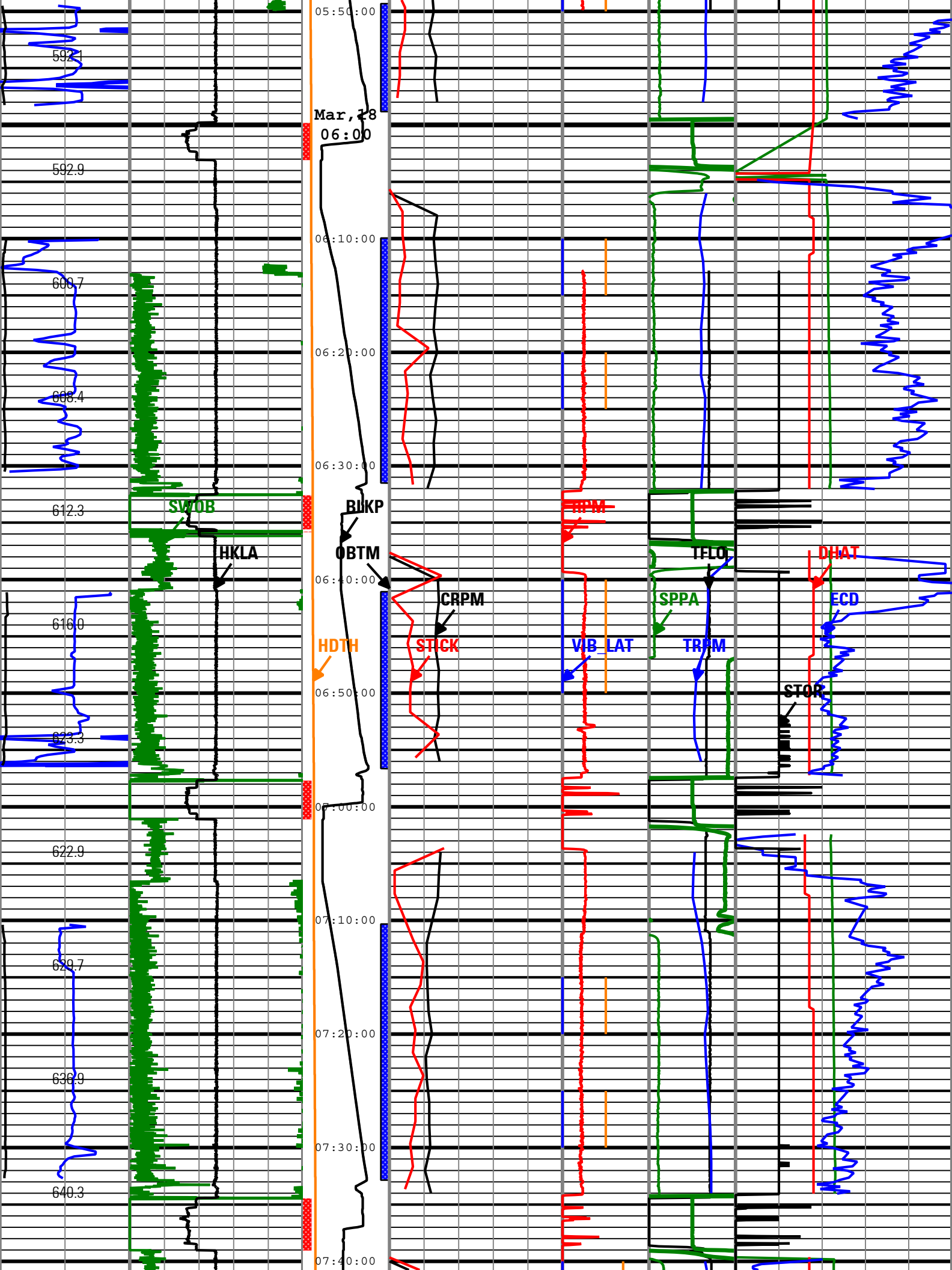


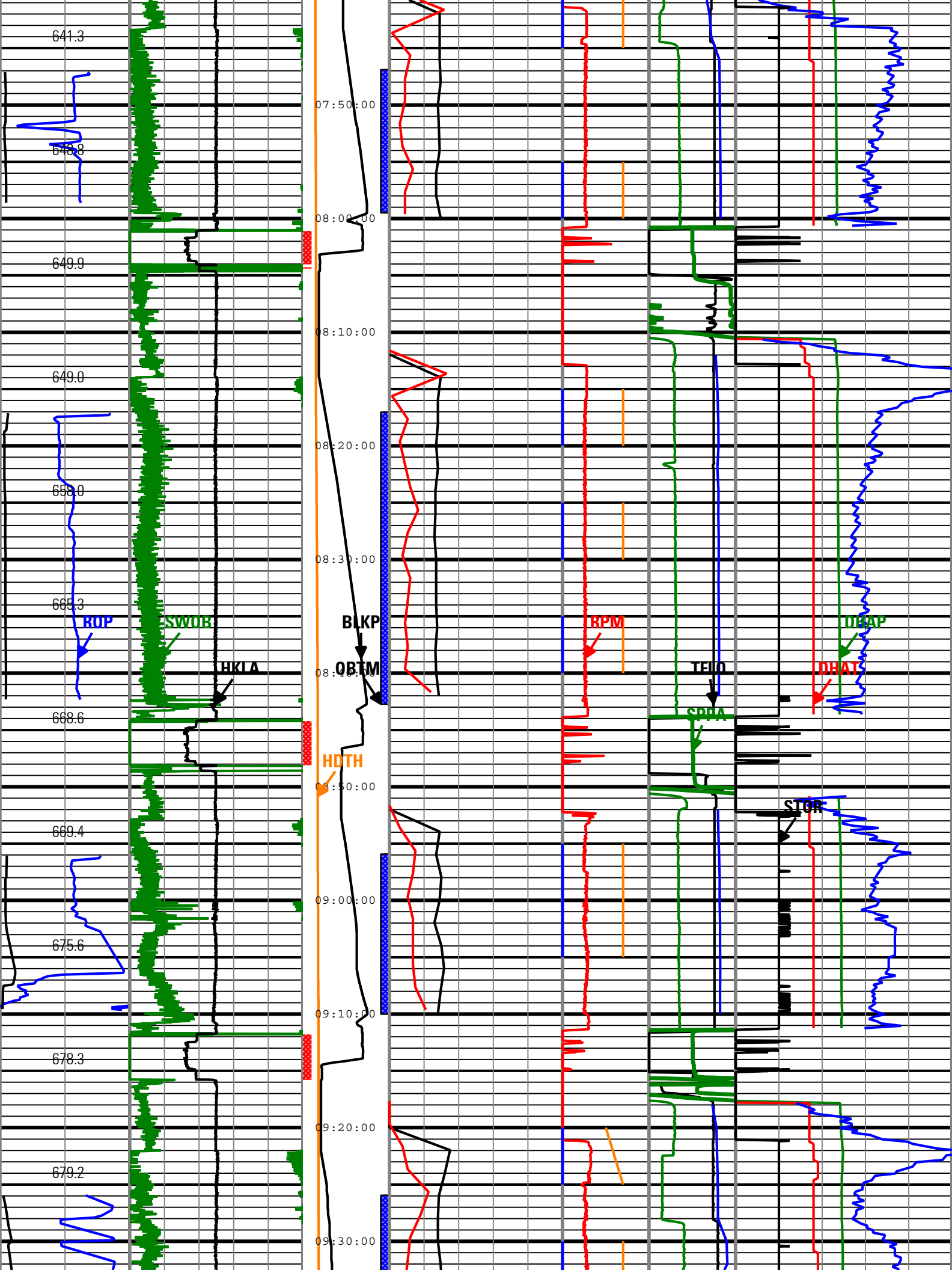


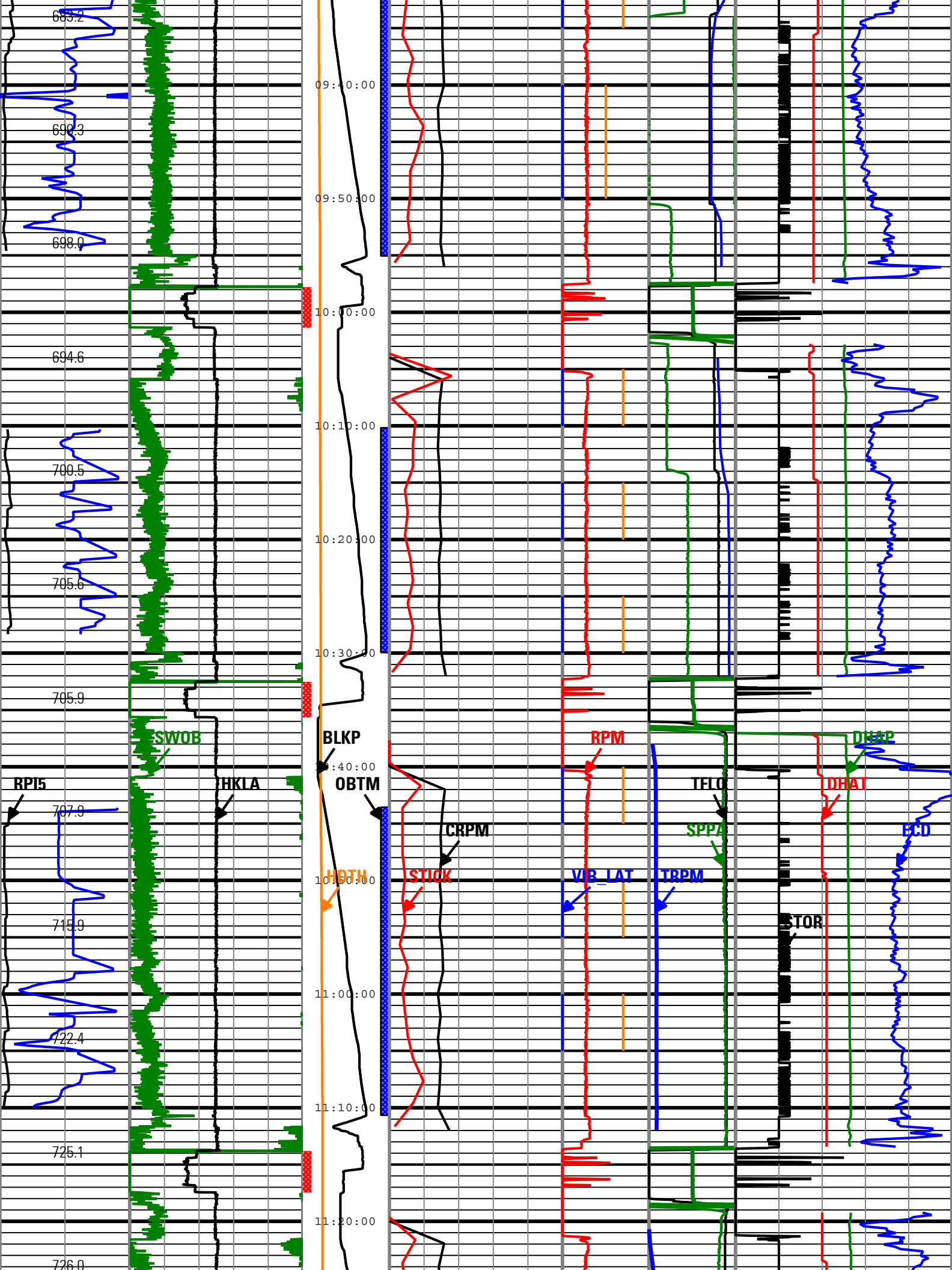


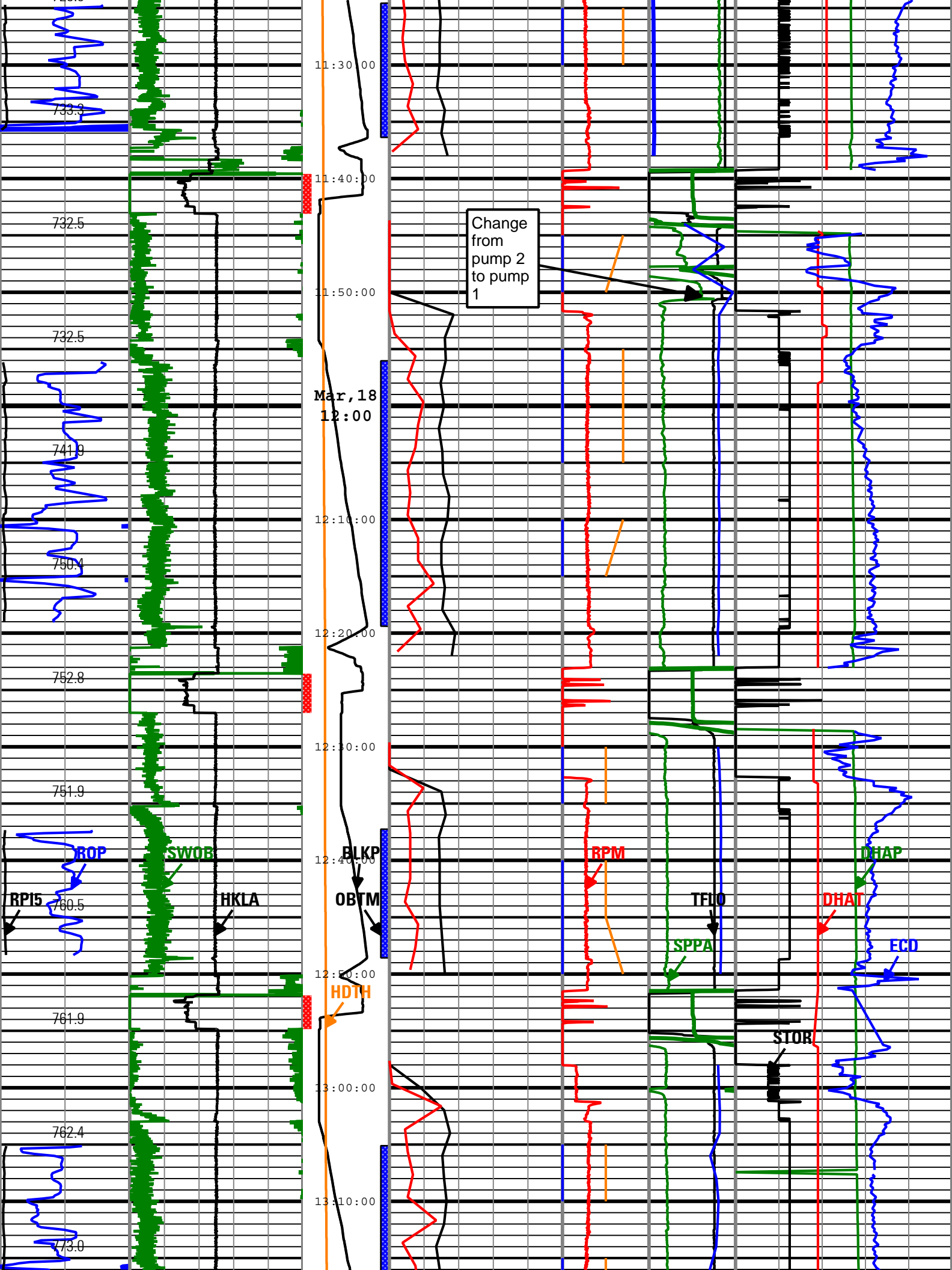


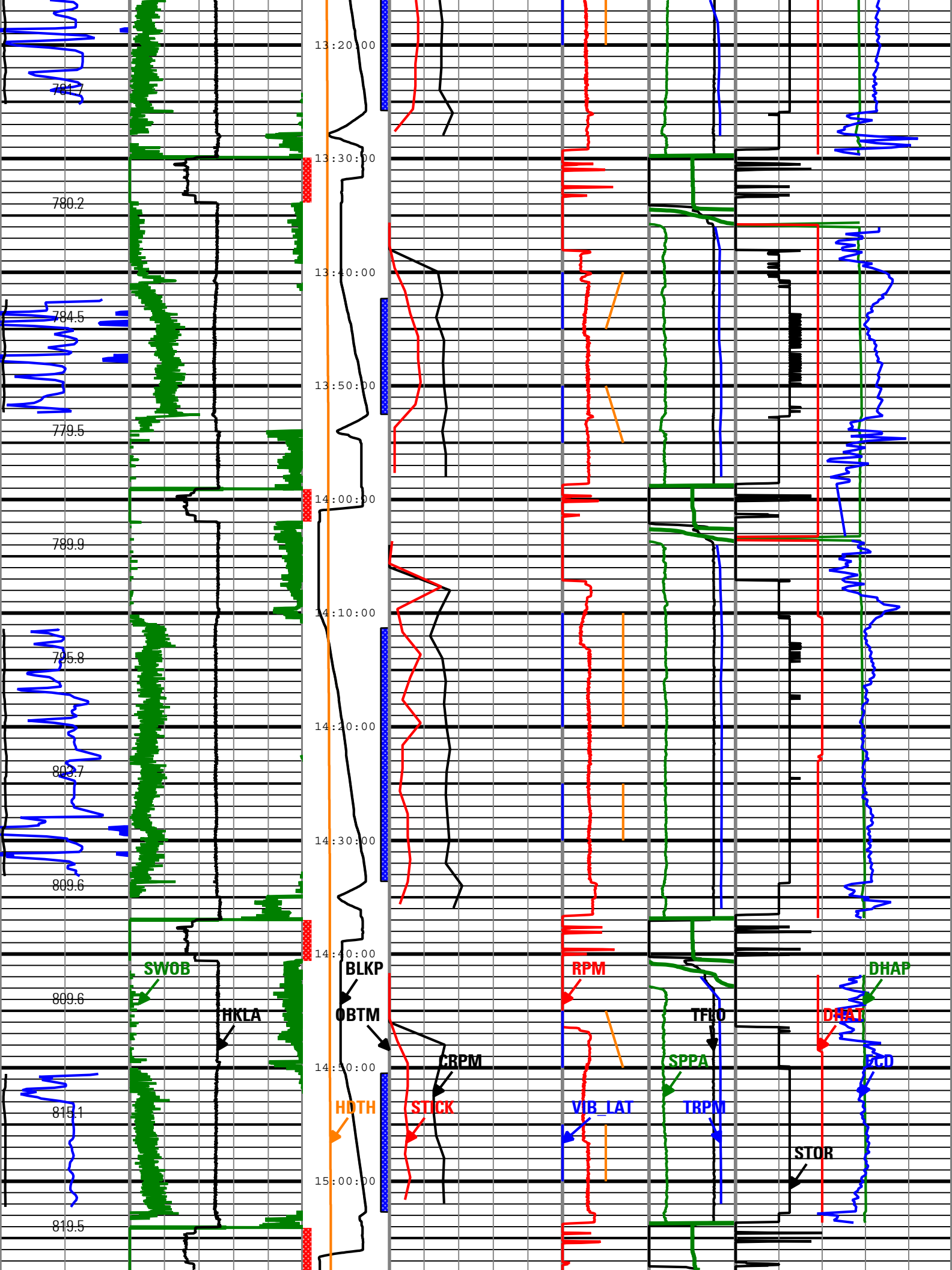


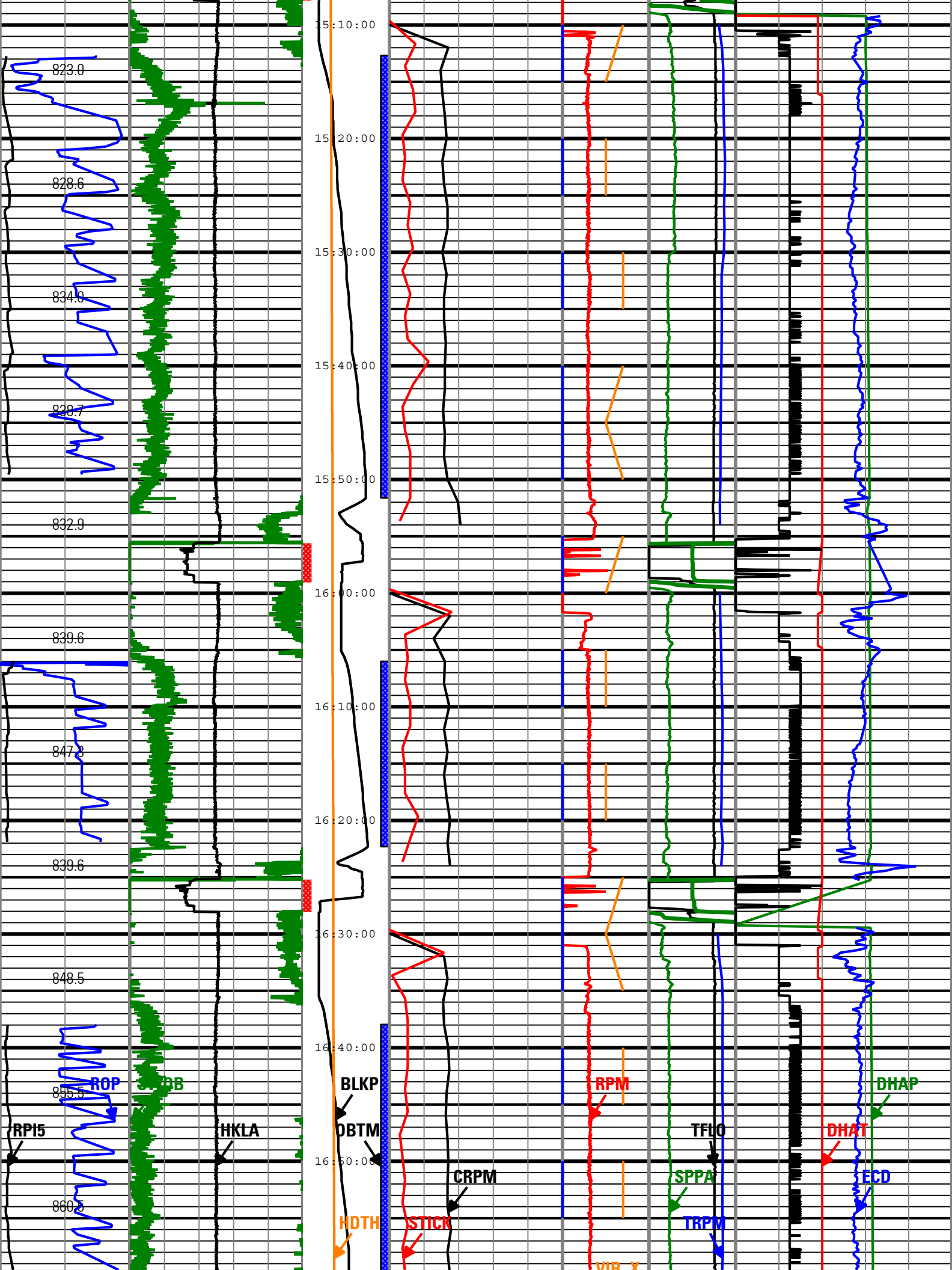


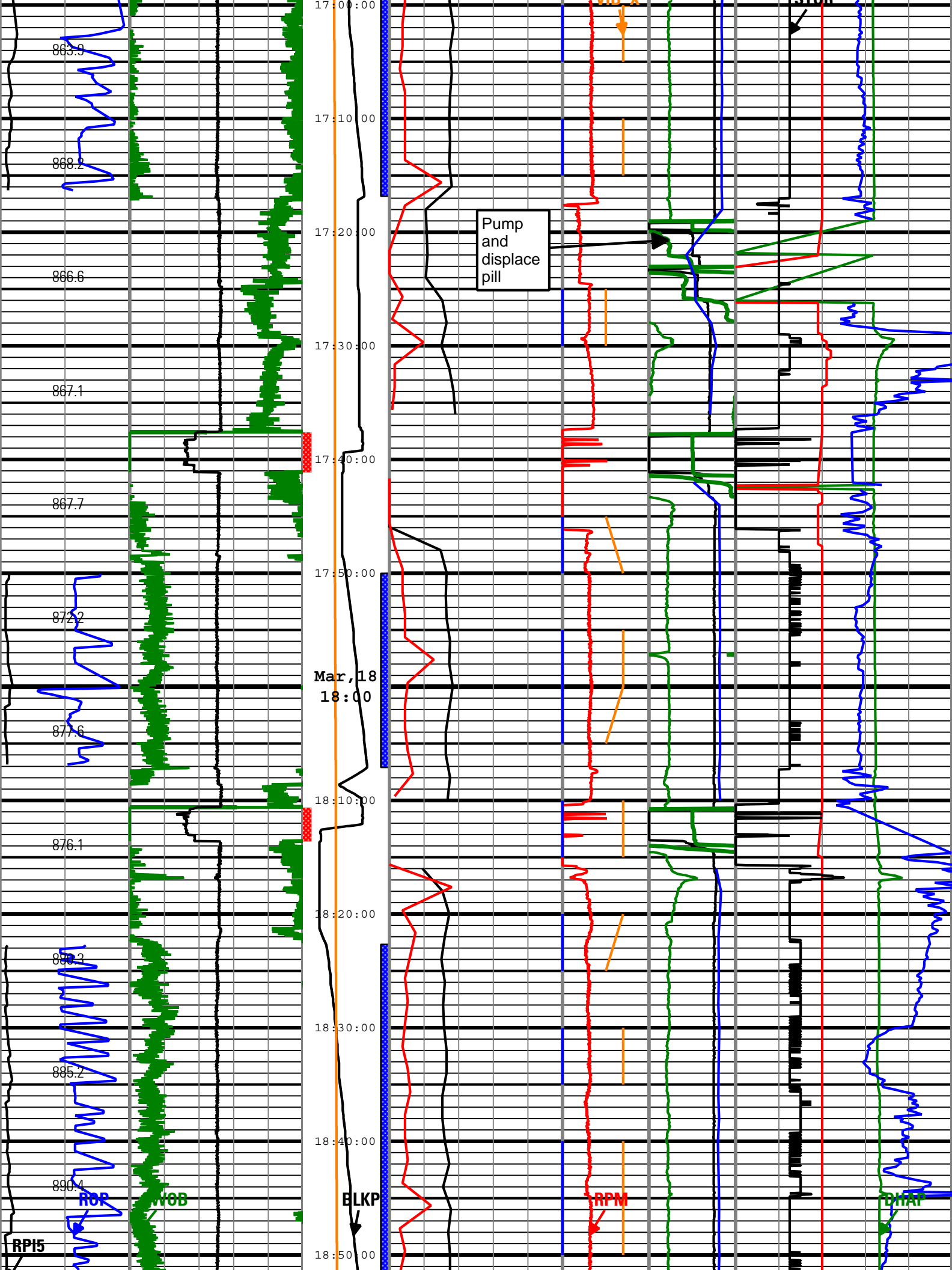


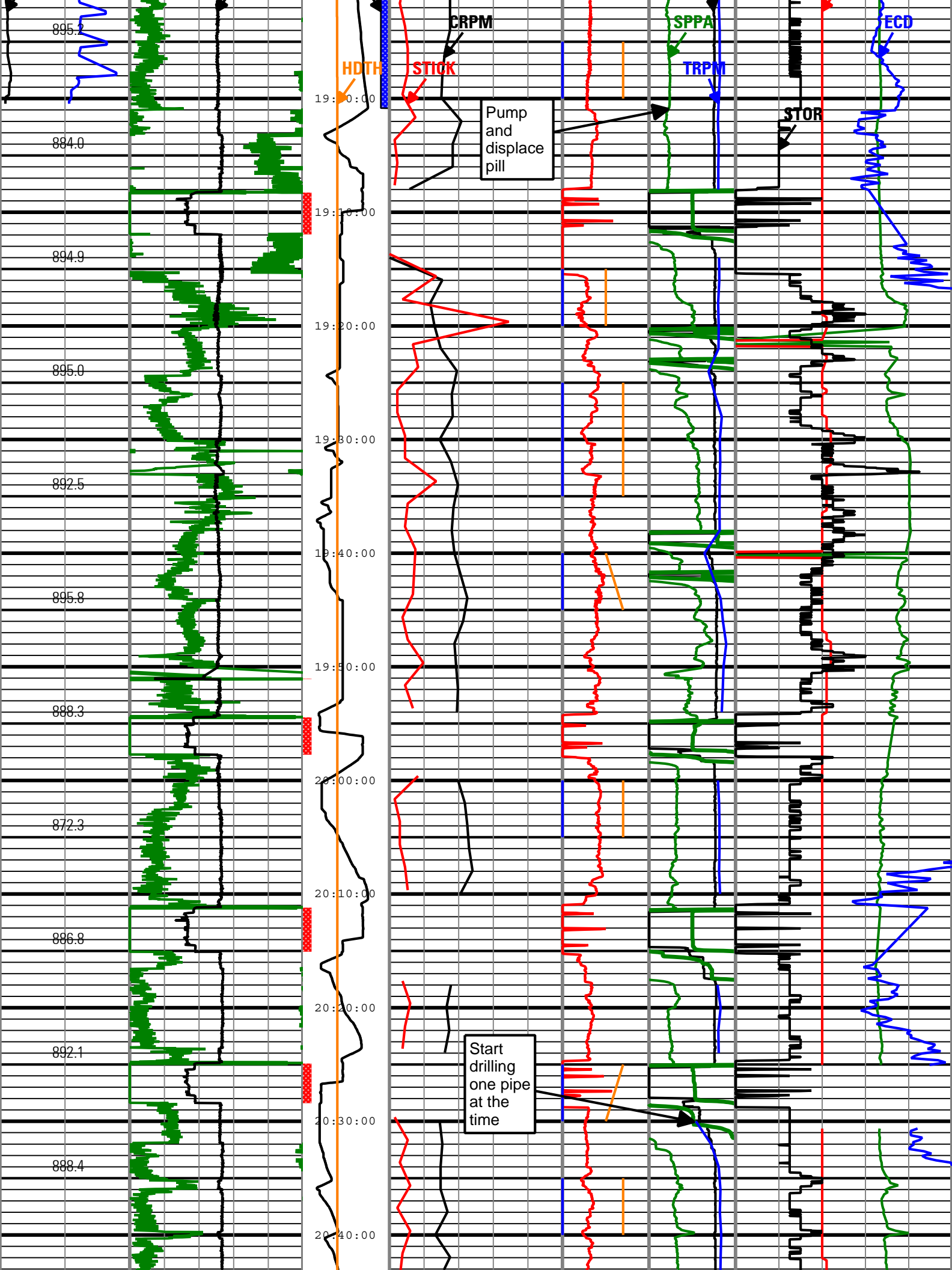


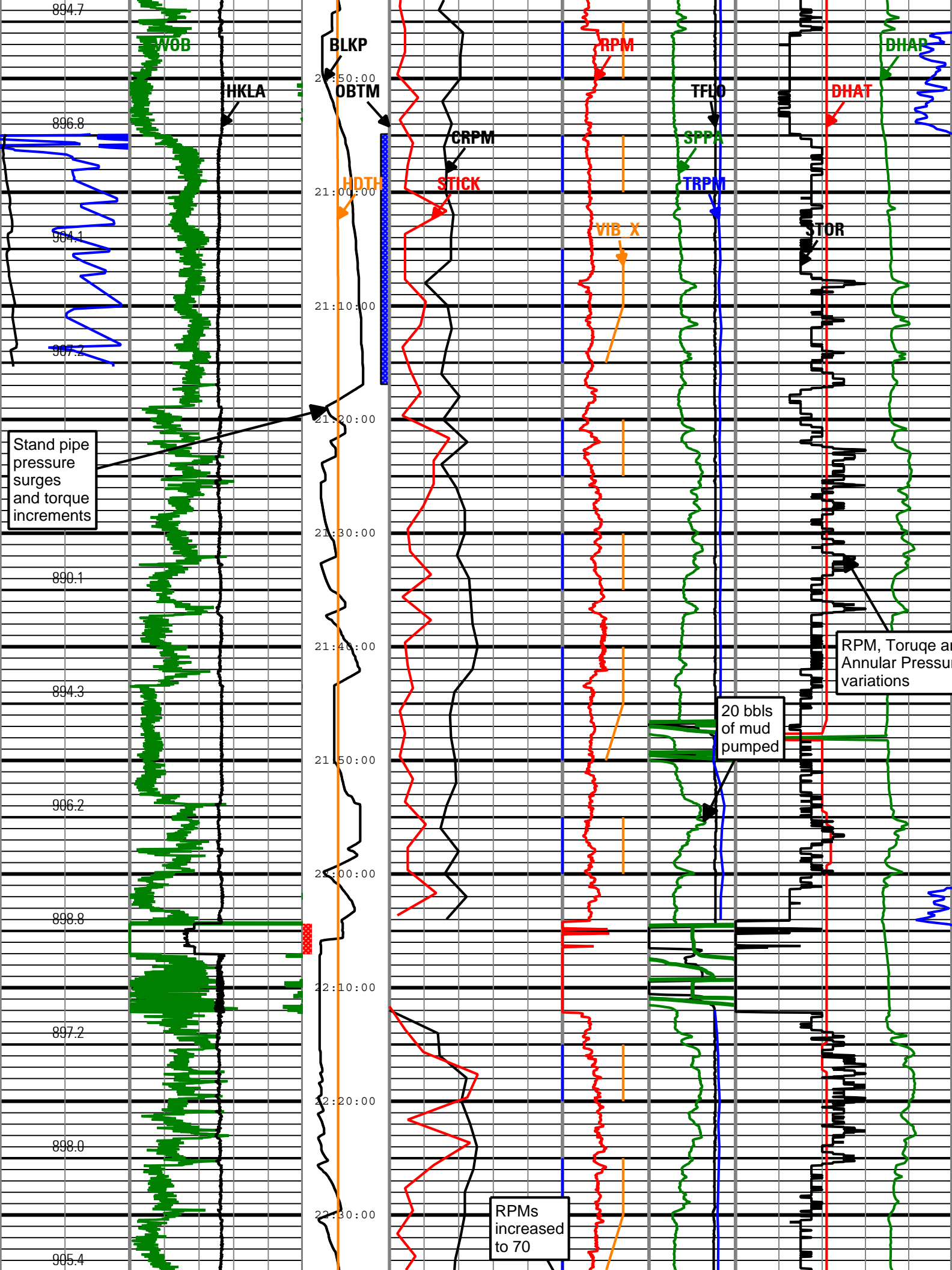


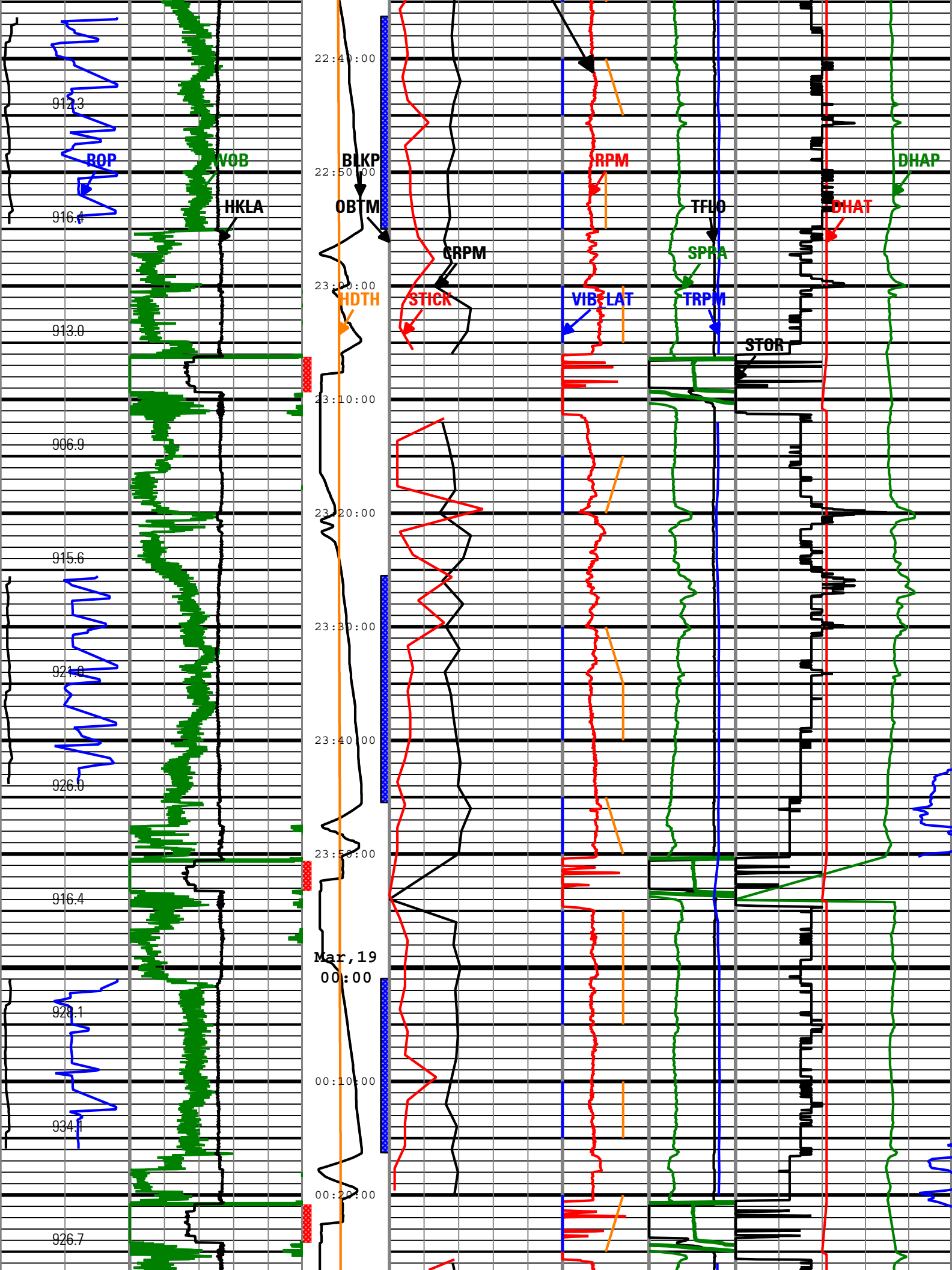


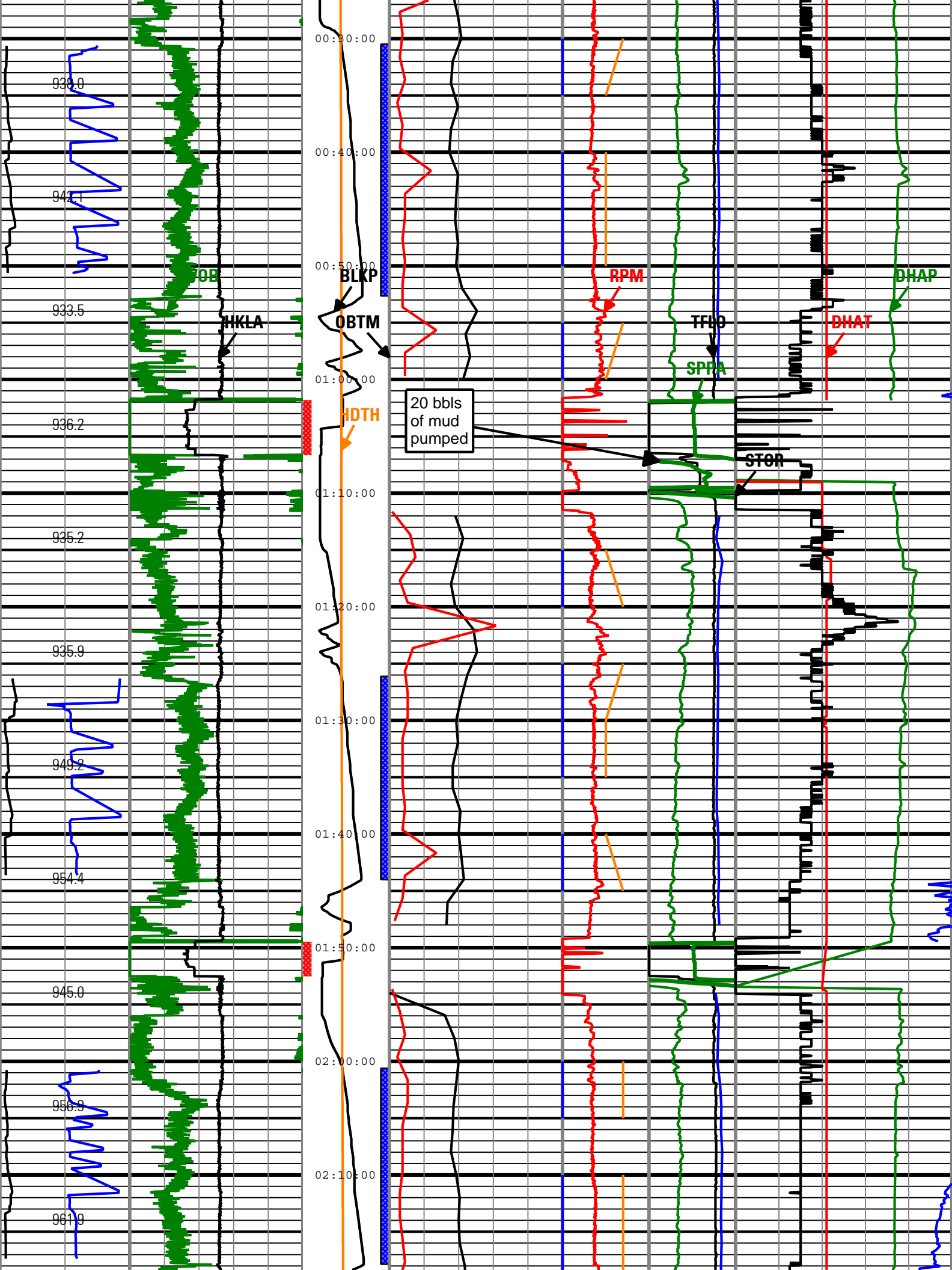


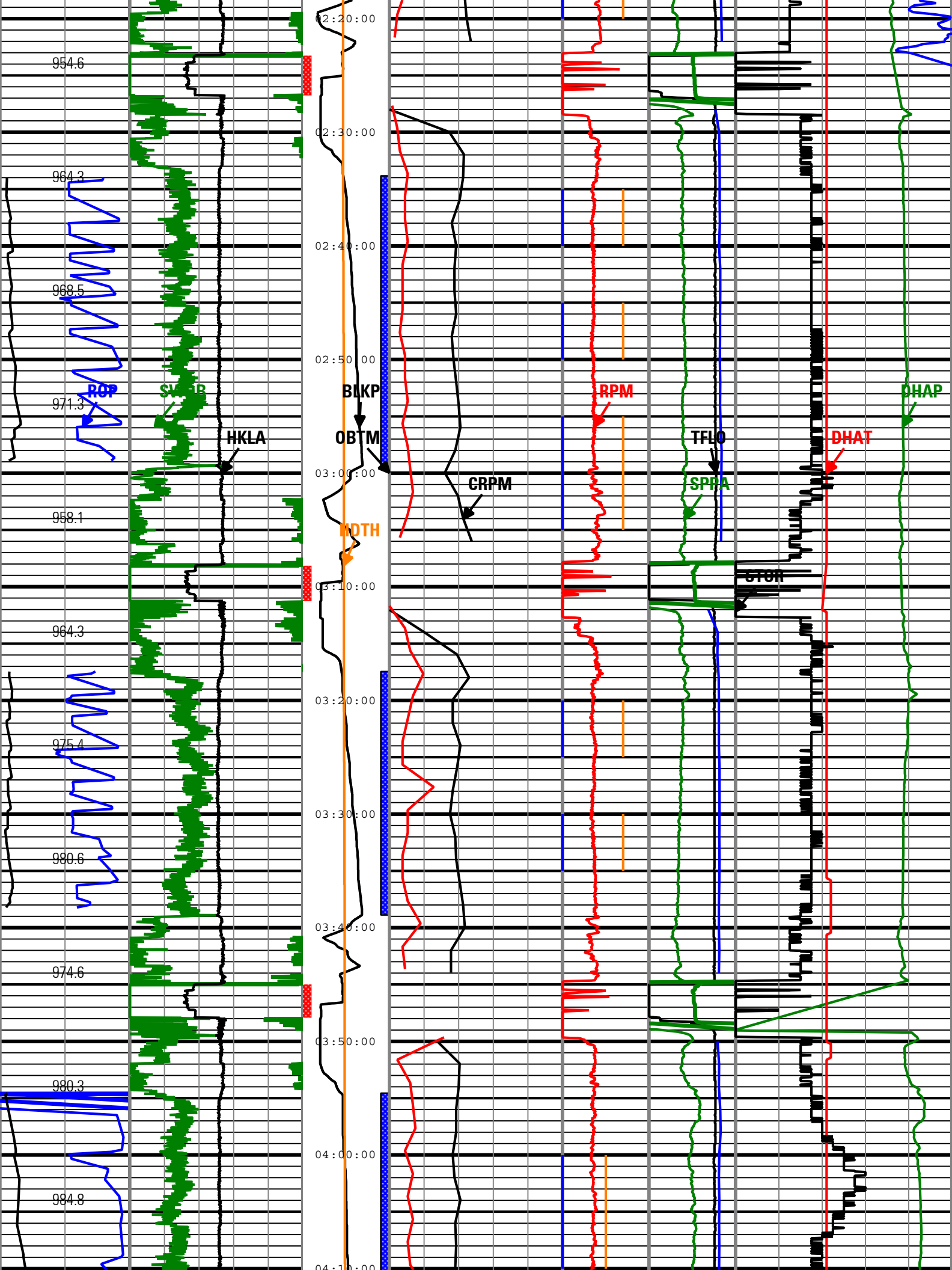


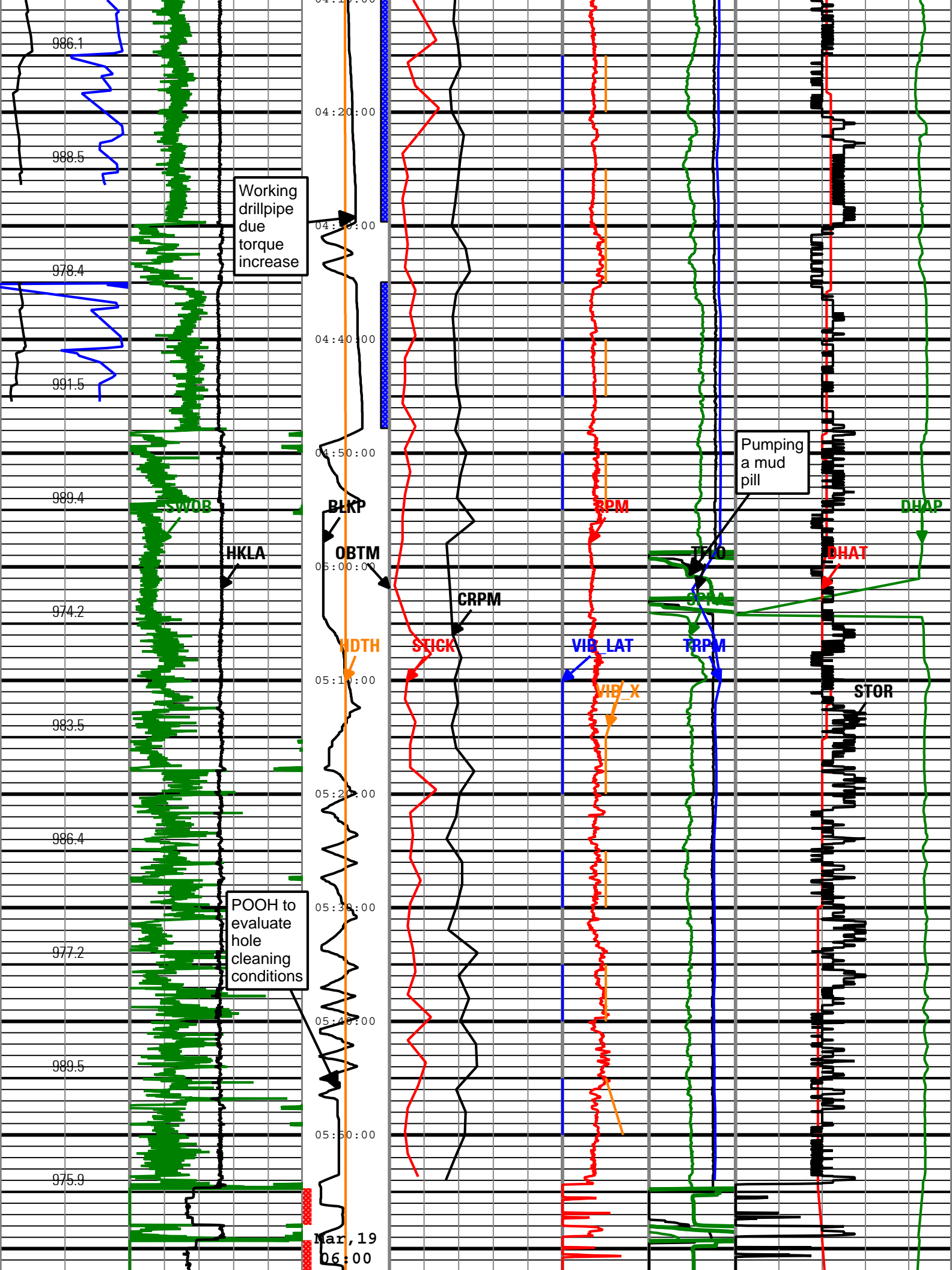


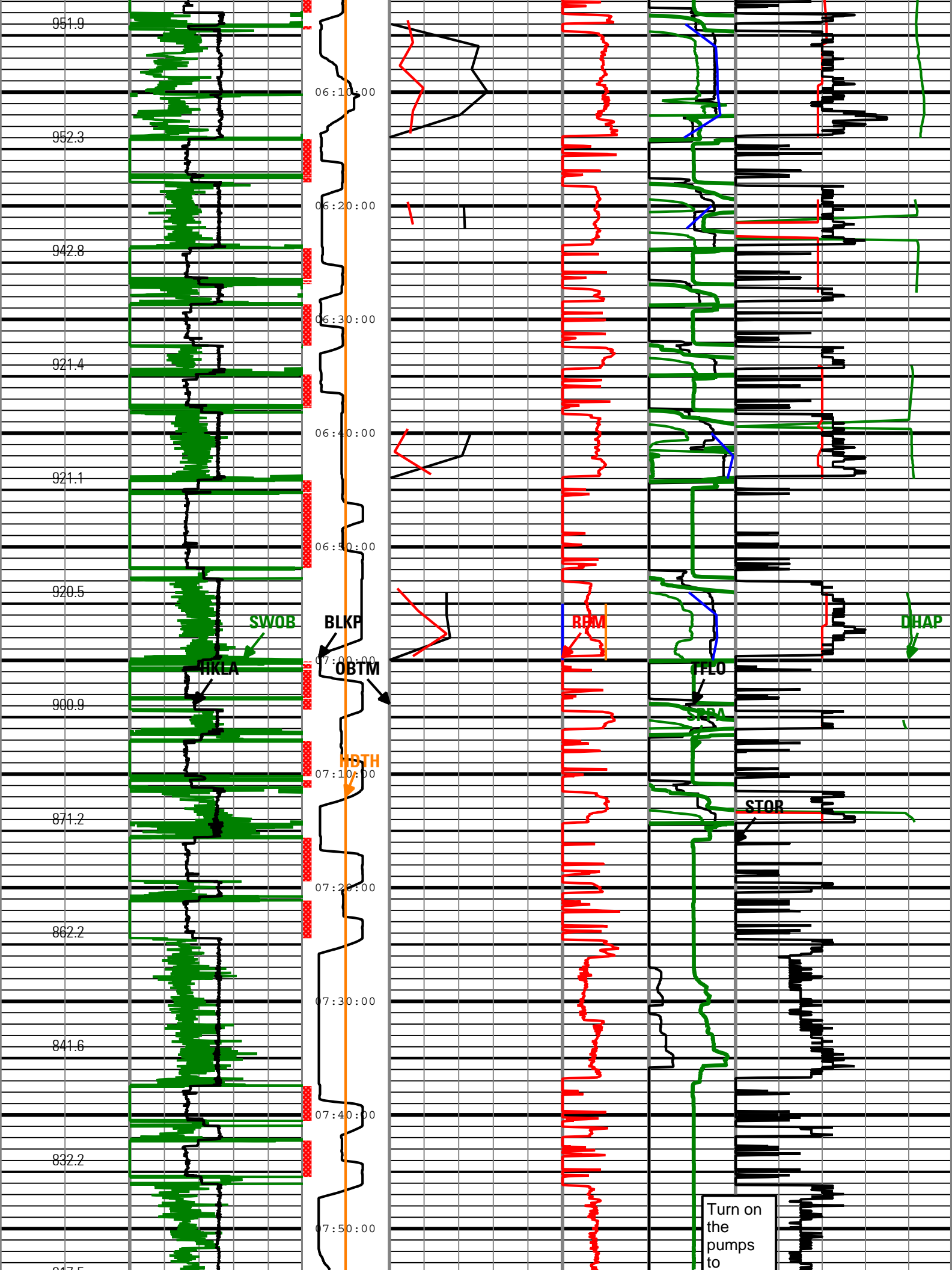


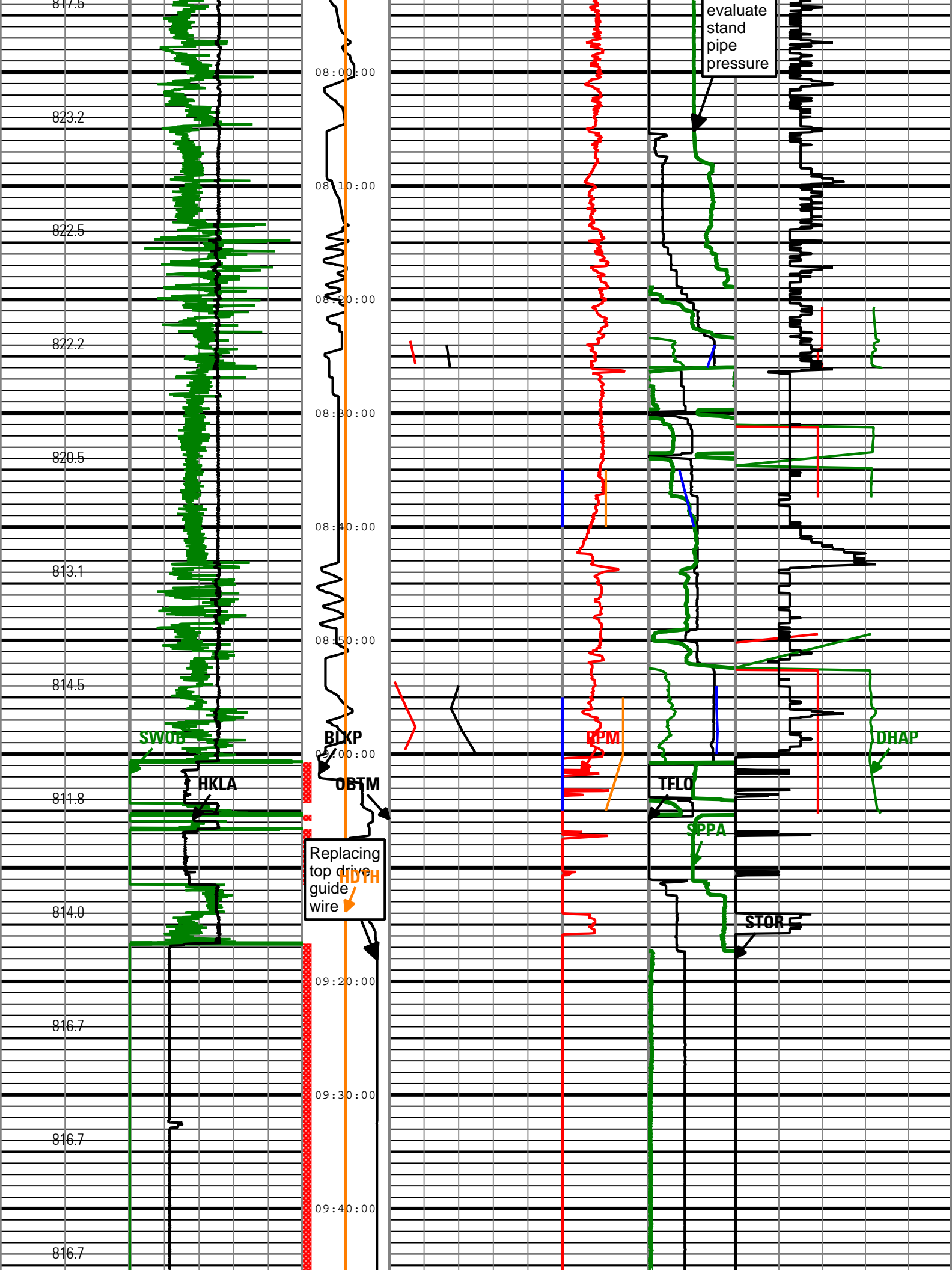


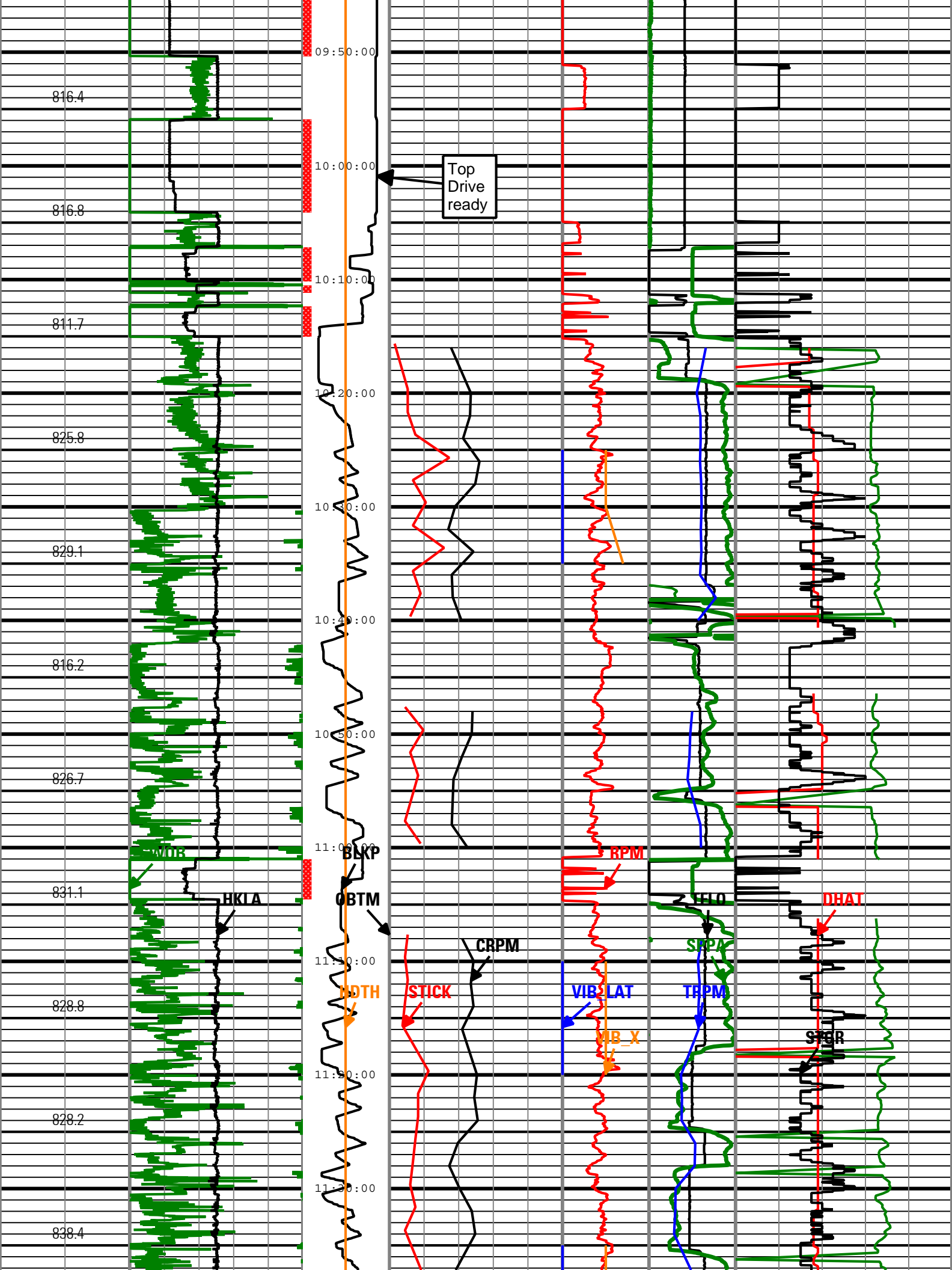


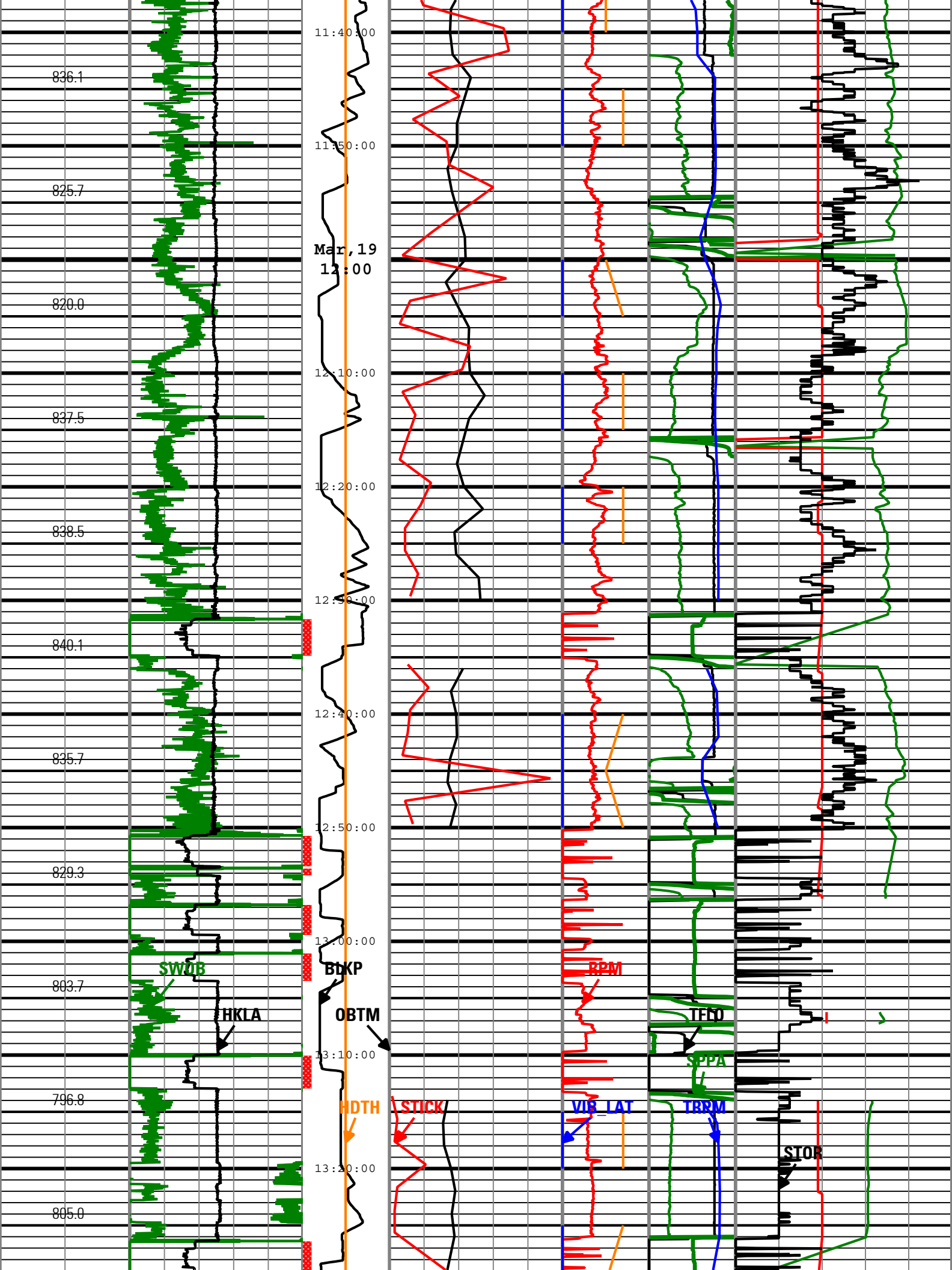


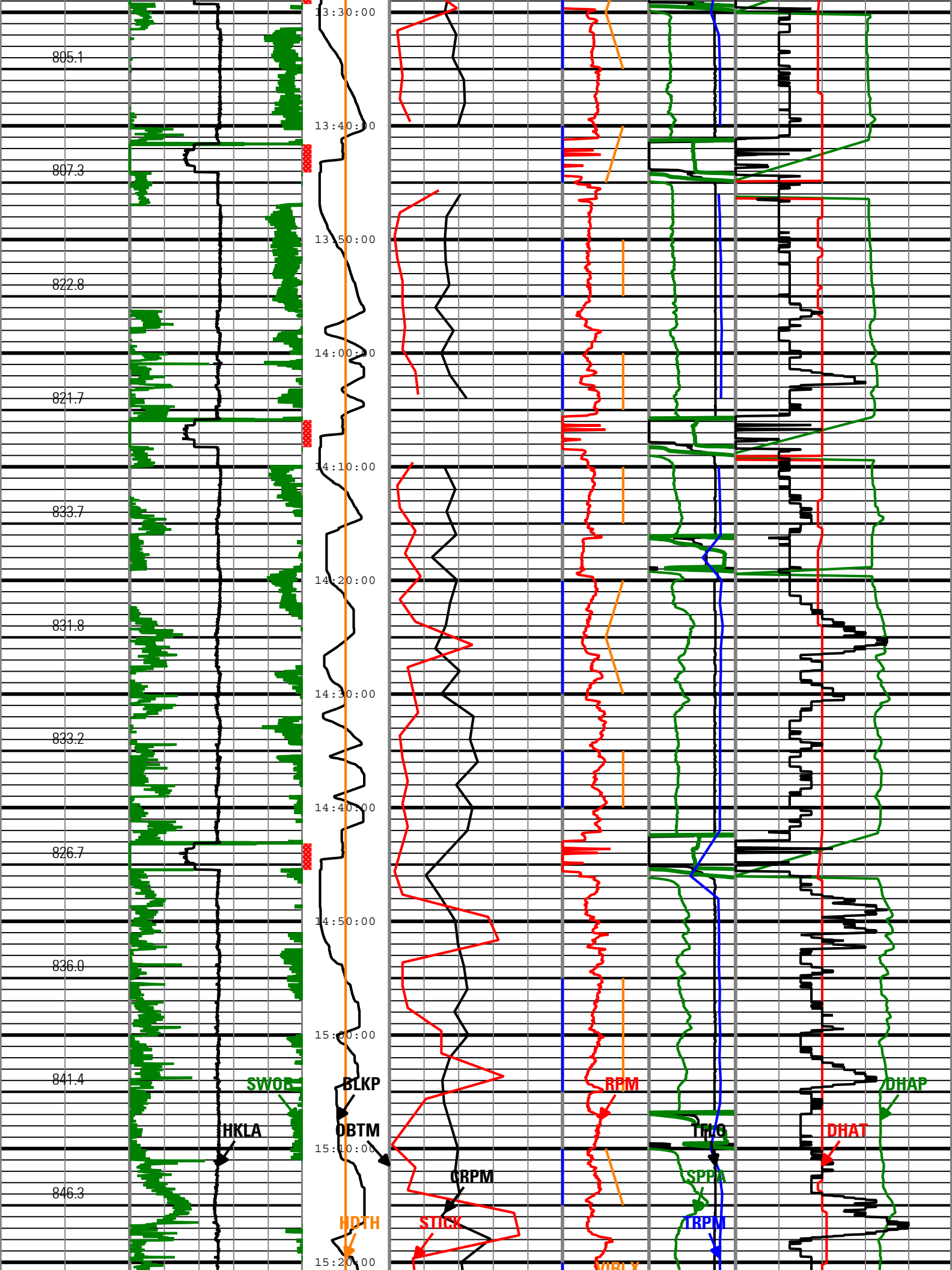


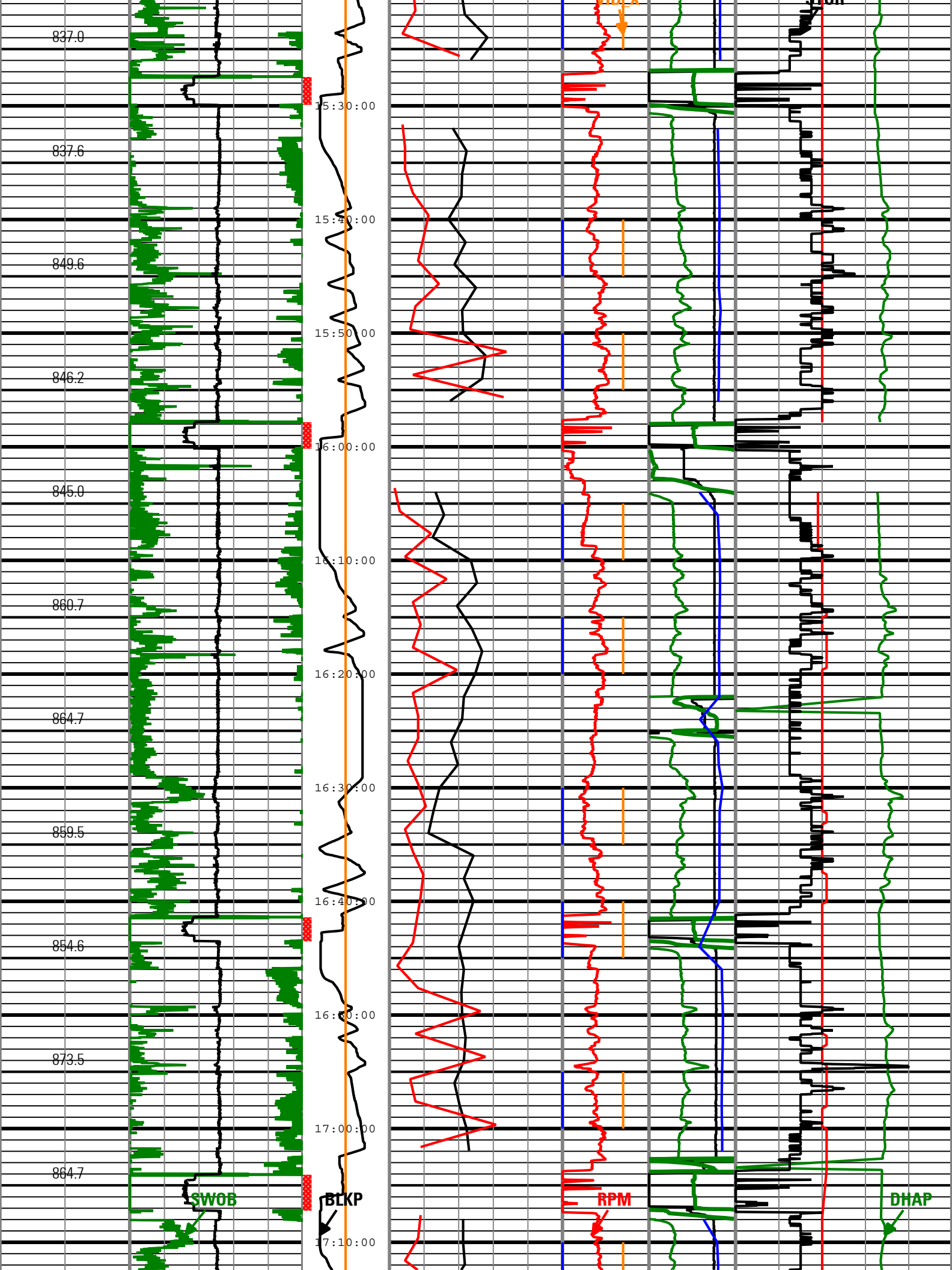


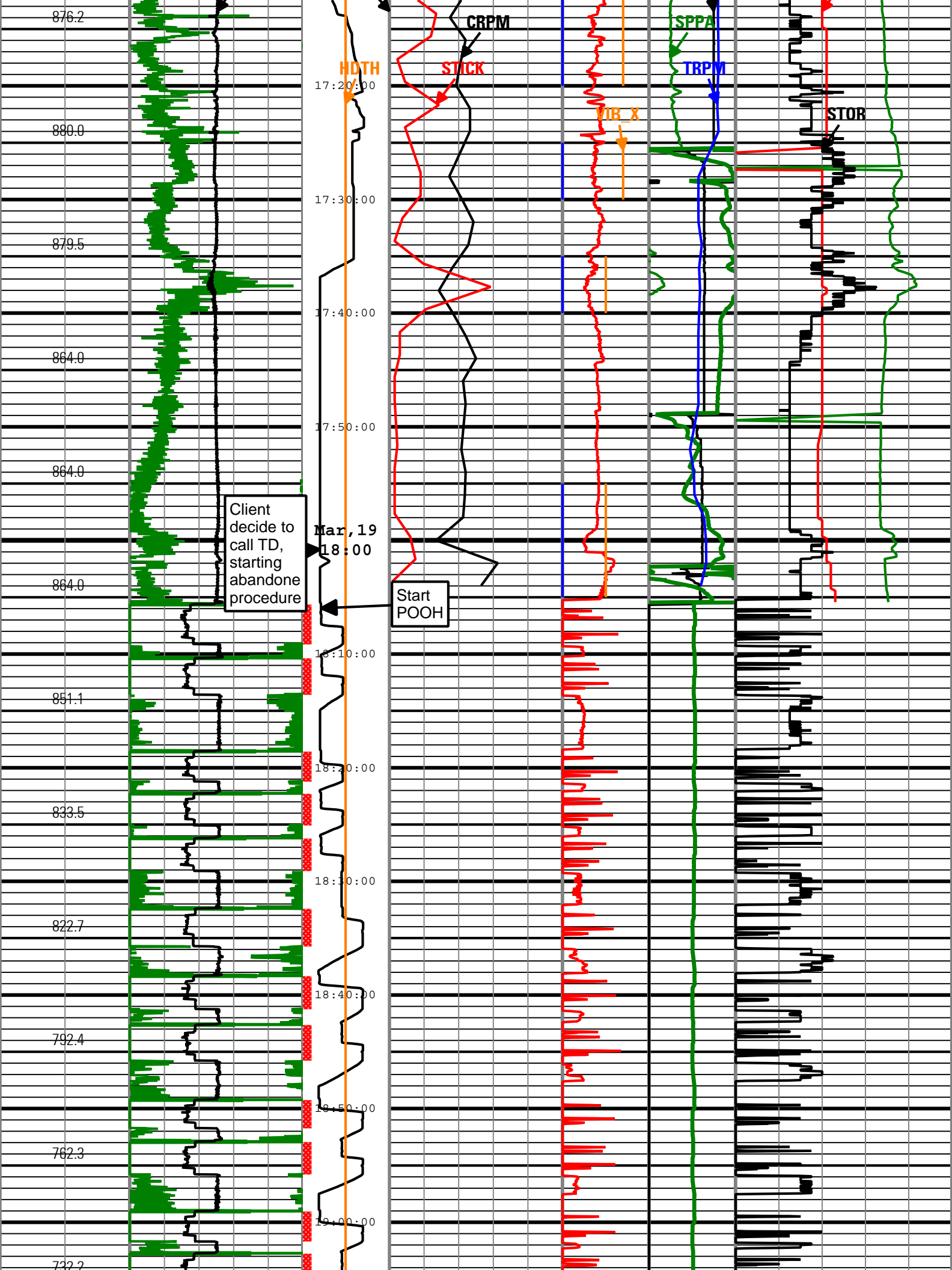


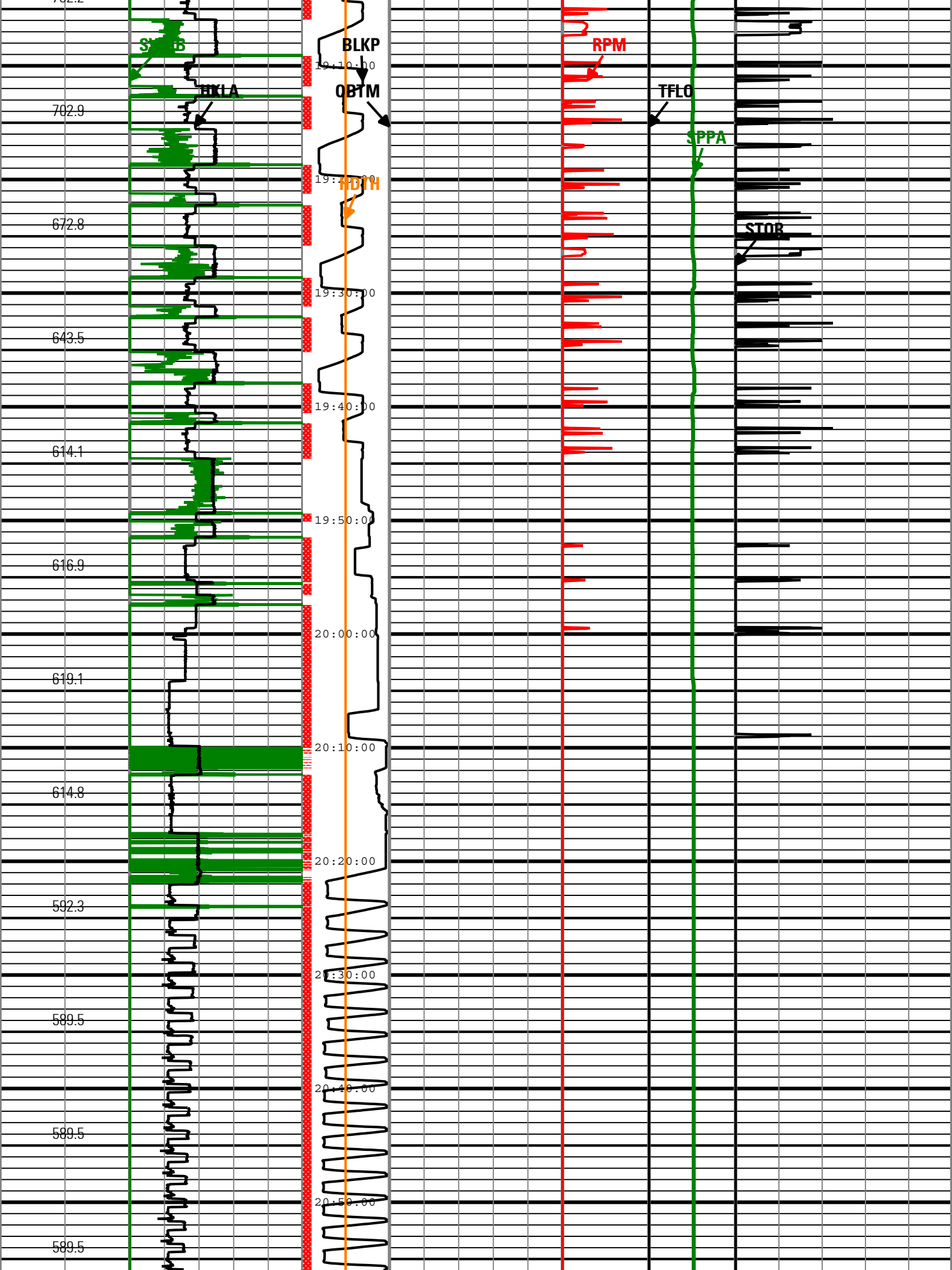


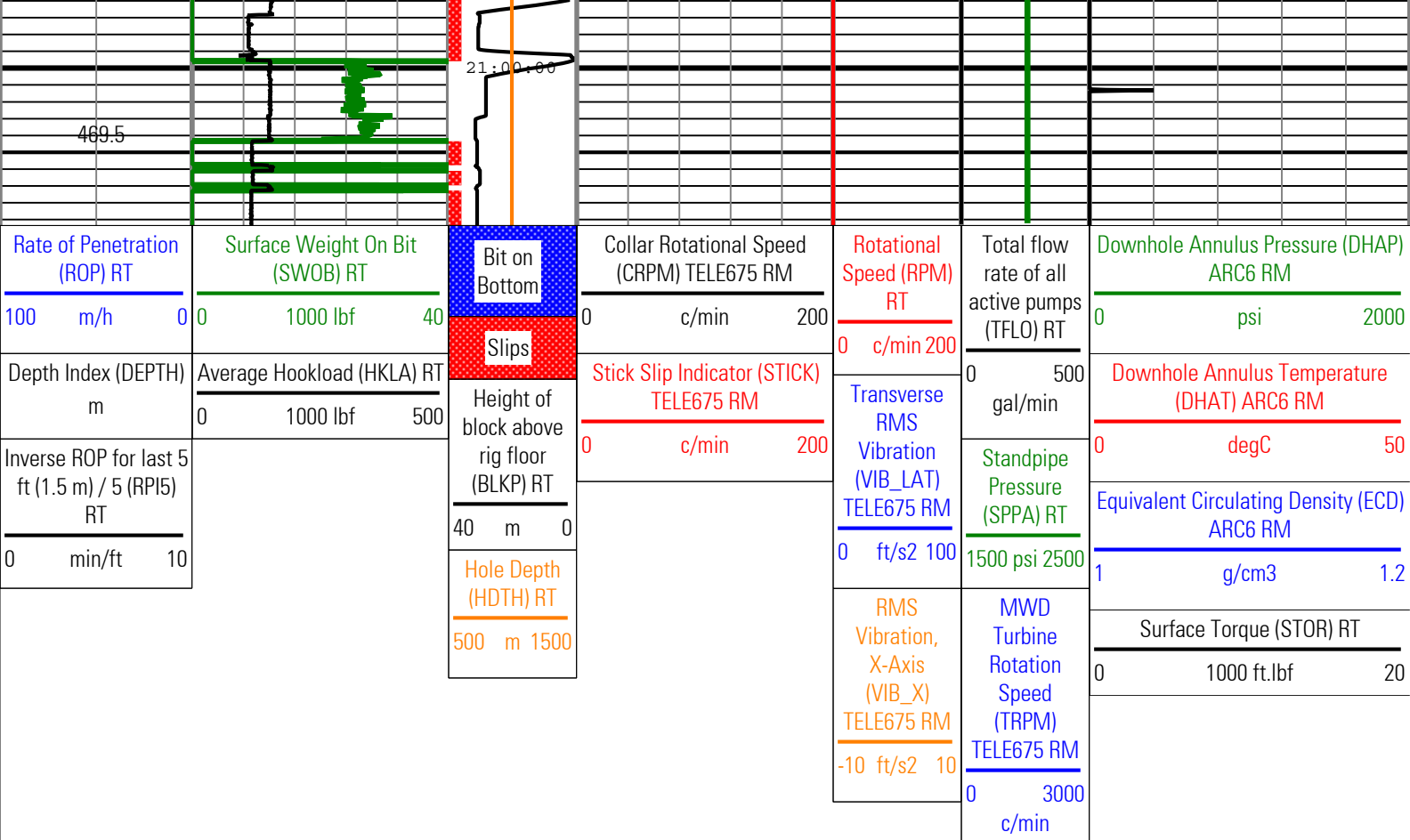












Description: TeleScope + ARC Drilling Mechanics Time RT Format: Log (Drilling Mechanics Time RM) Index Scale: 15 cm per 3600 s Index Type: Time
Creation Date: 21-Mar-2011 01:05:15

Channel Processing Parameters				
Parameter	Description	ToolPath	Value	Unit
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
FLEV	Depth of Drilling Fluid Level to LMF (Log Measured From)	Borehole	2.44	m
RHO_SEAWATER	Density of the Sea Water	Borehole	1.02	g/cm3
SF_FLAG	Mud Return to Sea Floor (No Riser)?	Borehole	Yes	

Tool Control Parameters				
Parameter	Description	ToolPath	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom	DnMWorkflow	0	m

Detailed Calibration Record					
RAB6 : 6.75-in. geoVISION resistivity tool Calibration M2 at T1 Calibration - Run1					
Primary Set Components		Description		Tool Element	Serial Number
		Electronics Chassis		RBEC	247
Calibration Dates		Shop Calibration			
Date & Time / Date Validity		17-Feb-2011 09:37:36 PM - Valid			
Calibration Source		Time Frame File			
Calibration Type: Resistivity					
Description		Min/Nominal/Max		Shop	Unit
C21M2T1 Monitor 2 at T1 Calibration Coefficient		0.9750 / 1.0000 / 1.0250		1.0047	

RAB6 : 6.75-in. geoVISION resistivity tool Calibration M2 at T2 Calibration - Run1				
Primary Set Components	Description	Tool Element	Serial Number	
	Electronics Chassis	RBEC	247	
Calibration Dates	Shop Calibration			
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid			

Calibration Source	Time Frame File		
Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
C22M2T2 Monitor 2 at T2 Calibration Coefficient	0.9750 / 1.0000 / 1.0250	1.0091	
RAB6 : 6.75-in. geoVISION resistivity tool Calibration M0 at T1 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
C01M0T1 Monitor 0 at T1 Calibration Coefficient	0.9750 / 1.0000 / 1.0250	0.9986	
RAB6 : 6.75-in. geoVISION resistivity tool Calibration M0 at T2 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
C02M0T2 Monitor 0 at T2 Calibration Coefficient	0.9750 / 1.0000 / 1.0250	1.0028	
RAB6 : 6.75-in. geoVISION resistivity tool Calibration Ring at T1 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
CR1RINGT1 Ring at T1 Calibration Coefficient	0.9750 / 1.0000 / 1.0250	1.0075	
RAB6 : 6.75-in. geoVISION resistivity tool Calibration Ring at T2 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
CR2RINGT2 Ring at T2 Calibration Coefficient	0.9750 / 1.0000 / 1.0250	1.0127	
RAB6 : 6.75-in. geoVISION resistivity tool Calibration BD at T1 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity			

Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
CD1BDT1 Button Deep at T1 Calibration Coefficient	0.9750 / 1.0000 / 1.0250	1.0005	
RAB6 : 6.75-in. geoVISION resistivity tool Calibration BD at T2 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
CD2BDT2 Button Deep at T2 Calibration Coefficient	0.9750 / 1.0000 / 1.0250	1.0050	
RAB6 : 6.75-in. geoVISION resistivity tool Calibration BM at T1 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
CM1BMT1 Button Medium at T1 Calibration Coefficient	0.9750 / 1.0000 / 1.0250	1.0043	
RAB6 : 6.75-in. geoVISION resistivity tool Calibration BM at T2 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
CM2BMT2 Button Medium at T2 Calibration Coefficient	0.9750 / 1.0000 / 1.0250	1.0088	
RAB6 : 6.75-in. geoVISION resistivity tool Calibration BS at T1 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
CS1BST1 Button Shallow at T1 Calibration Coefficient	0.9750 / 1.0000 / 1.0250	1.0000	
RAB6 : 6.75-in. geoVISION resistivity tool Calibration BS at T2 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 09:37:36 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity			
Description	Min/Nominal/Max	Shop	Unit
CS2BST2	0.9750 / 1.0000 / 1.0250	1.0044	

CS20312	Button Shallow at T2 Calibration Coefficient	0.97507 / 1.00007 / 1.0250	1.0044	
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RAB6 : 6.75-in. geoVISION resistivity tool Calibration Gamma Ray Calibration - Run1

Primary Set Components	Description	Tool Element	Serial Number
	Electronics Chassis	RBEC	247
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	17-Feb-2011 08:55:08 PM - Valid		
Calibration Source	Time Frame File		

Calibration Type: Gamma Ray: Blanket

Description	Min/Nominal/Max	Shop	Unit
GR_GAIN Gamma Ray Calibration Gain	0.7500 / 1.0000 / 1.2500	1.0072	

ARC6 : Calibration Resistivity - Run1

Primary Set Components	Description	Tool Element	Serial Number
	Elec. Chassis HP w/o AIM Receiver	AREA	595
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	22-Jan-2011 09:16:15 PM - Valid		
Calibration Source	Time Frame File		

Calibration Type: Resistivity: Air

Description	Min/Nominal/Max	Shop	Unit
ATT1F2AIR Attenuation T1 at 2 MHz	6.500 / 8.500 / 10.500	8.932	dB
ATT2F2AIR Attenuation T2 at 2 MHz	4.500 / 6.500 / 8.500	5.981	dB
ATT3F2AIR Attenuation T3 at 2 MHz	2.500 / 4.500 / 6.500	5.571	dB
ATT4F2AIR Attenuation T4 at 2 MHz	2.600 / 4.600 / 6.600	3.891	dB
ATT5F2AIR Attenuation T5 at 2 MHz	1.600 / 3.600 / 5.600	4.123	dB
PST1F2AIR Phase Shift T1 at 2 MHz	-3.900 / 0.100 / 4.100	1.493	deg
PST2F2AIR Phase Shift T2 at 2 MHz	-3.900 / 0.100 / 4.100	-1.501	deg
PST3F2AIR Phase Shift T3 at 2 MHz	-3.900 / 0.100 / 4.100	1.423	deg
PST4F2AIR Phase Shift T4 at 2 MHz	-3.900 / 0.100 / 4.100	-1.538	deg
PST5F2AIR Phase Shift T5 at 2 MHz	-3.900 / 0.100 / 4.100	1.407	deg
ATT1F4AIR Attenuation T1 at 400 KHz	6.500 / 8.500 / 10.500	8.848	dB
ATT2F4AIR Attenuation T2 at 400 KHz	4.500 / 6.500 / 8.500	6.075	dB
ATT3F4AIR Attenuation T3 at 400 KHz	2.500 / 4.500 / 6.500	5.478	dB
ATT4F4AIR Attenuation T4 at 400 KHz	2.600 / 4.600 / 6.600	3.976	dB
ATT5F4AIR Attenuation T5 at 400 KHz	1.600 / 3.600 / 5.600	4.041	dB
PST1F4AIR Phase Shift T1 at 400 KHz	-3.900 / 0.100 / 4.100	0.269	deg
PST2F4AIR Phase Shift T2 at 400 KHz	-3.900 / 0.100 / 4.100	-0.263	deg
PST3F4AIR Phase Shift T3 at 400 KHz	-3.900 / 0.100 / 4.100	0.278	deg
PST4F4AIR Phase Shift T4 at 400 KHz	-3.900 / 0.100 / 4.100	-0.279	deg
PST5F4AIR Phase Shift T5 at 400 KHz	-3.900 / 0.100 / 4.100	0.257	deg

ARC6 : Calibration Gamma Ray - Run1

Primary Set Components	Description	Tool Element	Serial Number
	Elec. Chassis HP w/o AIM Receiver	AREA	595
Calibration Dates	Shop Calibration		

Date & Time / Date Validity	22-Jan-2011 07:57:15 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Gamma Ray: Blanket			
Description	Min/Nominal/Max	Shop	Unit
GR_GAIN Gamma Ray Calibration Gain	0.580 / 1.000 / 1.250	1.067	
ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Density LS Window 3 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297
	Collar, IBS 8-1/4, P550	ADDC	YJ56
	Retrievable Neutron Gamma Src Plugless	RNGS	01-21
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Density: LS Window 3			
Description	Min/Nominal/Max	Shop	Unit
LSW3_BG LS window 3 - Background	30.0 / 52.5 / 75.0	47.4	1/s
LSW3_AL LS window 3 - Al	75.0 / 537.5 / 1000.0	161.0	1/s
LSW3_MG LS window 3 - Mg	500.0 / 3000.0 / 5500.0	1093.7	1/s
RHOL_H2O Long spacing water density	1.024 / 1.039 / 1.054	1.049	g/cm3
ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Density SS Window 1 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Density: SS Window 1			
Description	Min/Nominal/Max	Shop	Unit
SSW1_BG SS window 1 - Background	75.0 / 125.0 / 175.0	104.0	1/s
SSW1_AL SS window 1 - Al	750.0 / 2625.0 / 4500.0	1377.6	1/s
SSW1_MG SS window 1 - Mg	1500.0 / 5750.0 / 10000.0	2693.7	1/s
ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Density SS Window 3 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Density: SS Window 3			
Description	Min/Nominal/Max	Shop	Unit
SSW3_BG SS window 3 - Background	350.0 / 550.0 / 750.0	445.6	1/s
SSW3_AL SS window 3 - Al	2000.0 / 8500.0 / 15000.0	4146.8	1/s
SSW3_MG SS window 3 - Mg	3500.0 / 14250.0 / 25000.0	6590.8	1/s
RHOS_H2O Short spacing water density	1.096 / 1.126 / 1.156	1.147	g/cm3
ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Neutron Far 1 Tube 1 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Far 1 Tube 1			
Description	Min/Nominal/Max	Shop	Unit
FR11_AIR Far 1 tube 1 - Air	13.300 / 21.150 / 29.000	16.618	1/s
FR11_ROD Far 1 tube 1 - Rod	3.900 / 5.700 / 7.500	4.276	1/s
FR11_H2O Far 1 tube 1 - Water	1.900 / 2.800 / 3.700	2.099	1/s
ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Neutron Far 1 Tube 2 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Far 1 Tube 2			
Description	Min/Nominal/Max	Shop	Unit
FR12_AIR Far 1 tube 2 - Air	13.300 / 21.150 / 29.000	17.654	1/s
FR12_ROD Far 1 tube 2 - Rod	3.900 / 5.700 / 7.500	4.442	1/s
FR12_H2O Far 1 tube 2 - Water	1.900 / 2.800 / 3.700	2.180	1/s
ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Neutron Far 1 Tube 3 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Far 1 Tube 3			
Description	Min/Nominal/Max	Shop	Unit
FR13_AIR Far 1 tube 3 - Air	13.300 / 21.150 / 29.000	17.334	1/s
FR13_ROD Far 1 tube 3 - Rod	3.900 / 5.700 / 7.500	4.303	1/s
FR13_H2O Far 1 tube 3 - Water	1.900 / 2.800 / 3.700	2.085	1/s
ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Neutron Far 2 Tube 1 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Far 2 Tube 1			
Description	Min/Nominal/Max	Shop	Unit
FR21_AIR Far 2 tube 1 - Air	13.300 / 21.150 / 29.000	17.545	1/s
FR21_ROD Far 2 tube 1 - Rod	3.900 / 5.700 / 7.500	4.402	1/s
FR21_H2O Far 2 tube 1 - Water	1.900 / 2.800 / 3.700	2.187	1/s
ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Neutron Far 2 Tube 2 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297

Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Far 2 Tube 2			
Description	Min/Nominal/Max	Shop	Unit
FR22_AIR Far 2 tube 2 - Air	13.300 / 21.150 / 29.000	17.396	1/s
FR22_ROD Far 2 tube 2 - Rod	3.900 / 5.700 / 7.500	4.234	1/s
FR22_H2O Far 2 tube 2 - Water	1.900 / 2.800 / 3.700	2.146	1/s

ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Neutron Far 2 Tube 3 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		

Calibration Type: Neutron: Far 2 Tube 3			
Description	Min/Nominal/Max	Shop	Unit
FR23_AIR Far 2 tube 3 - Air	13.300 / 21.150 / 29.000	16.993	1/s
FR23_ROD Far 2 tube 3 - Rod	3.900 / 5.700 / 7.500	4.233	1/s
FR23_H2O Far 2 tube 3 - Water	1.900 / 2.800 / 3.700	2.091	1/s
NEUT_PORO_H2O_FAR Far Neutron Water Porosity	86.000 / 103.500 / 121.000	95.000	pu


ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Neutron Near 1 Tube 1 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		

Calibration Type: Neutron: Near 1 Tube 1			
Description	Min/Nominal/Max	Shop	Unit
NR11_AIR Near 1 tube 1 - Air	400.000 / 575.000 / 750.000	444.159	1/s
NR11_ROD Near 1 tube 1 - Rod	640.000 / 895.000 / 1150.000	721.410	1/s
NR11_H2O Near 1 tube 1 - Water	275.000 / 412.500 / 550.000	318.322	1/s

ADN6C : 6.75-in. Azimuthal Density Neutron Calibration Neutron Near 2 Tube 1 Calibration - Run1			
Primary Set Components	Description	Tool Element	Serial Number
	Chassis, Hi-Pres, Non-Mag	ADSE	297
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	23-Feb-2011 06:44:34 PM - Valid		
Calibration Source	Time Frame File		

Calibration Type: Neutron: Near 2 Tube 1			
Description	Min/Nominal/Max	Shop	Unit
NR21_AIR Near 2 tube 1 - Air	400.000 / 575.000 / 750.000	446.312	1/s
NR21_ROD Near 2 tube 1 - Rod	640.000 / 895.000 / 1150.000	717.931	1/s
NR21_H2O Near 2 tube 1 - Water	275.000 / 412.500 / 550.000	316.561	1/s

Survey Record			
Survey Calculation			
Method:	Minimum Radius of Curvature	DLS Method:	Lehman's

Method :		Minimum Radius of Curvature		DLS Method :		Lubinski								
North Reference :		True North		Total Correction Formula :		Magnetic Dec								
Rig Location														
Latitude :		8.59 degrees		Longitude :		-84.08 degrees								
Tie In Point														
Measured Depth:		0.00 m		Inclination:		0.00 deg								
Azimuth:				0.00 deg										
True Vertical Depth:		0.00 m		North Displacement:		0.00 m								
East Displacement:				0.00 m										
N/-S VSec Origin:		0.00 m		E/-W VSec Origin:		0.00 m								
Vertical Section Azimuth:				0.00 deg										
D&I Inits Computed and Values Used - Run1														
Geomagnetic Model :		BGGM 2010		Geomagnetic Date :		17-Mar-2011								
Computed Location B :		34289.31 nT +/- 300.00nT		Used Location B :		34289.31 nT +/- 300.00nT								
Computed Location G :		32.09 ft/s2 +/- 0.08ft/s2		Used Location G :		32.09 ft/s2 +/- 0.08ft/s2								
Computed Magnetic Dip :		35.35 deg +/- 0.45deg		Used Magnetic Dip :		35.35 deg +/- 0.45deg								
Computed Magnetic Dec :		-0.61 deg		Used Magnetic Dec :		-0.61 deg								
Computed Total Correction :		-0.61 deg		Used Total Correction :		-0.61 deg								
Survey Quality Index														
3 : Long, failed G criteria														
Survey Correction Index														
0 : No correction														
Seq	MD (m)	Incl (deg)	Azim (deg)	Course (m)	TVD (m)	V Sec (m)	N/ -S (m)	E/ -W (m)	Closure (m)	at Azim (deg)	DLS deg/100ft	Tool Type	QI	CI
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP		
2	515.74	0.09	355.97	515.74	515.74	0.41	0.41	-0.03	0.41	355.97	0.01	TeleScope	3	0
Company: IODP														
Lamont - Doherty Earth Observatory														
Well: U1378A														
Field: Expedition 334														
Rig Name: JOIDES Resolution														
State: Puntarenas														
Country: Costa Rica														
														
6.75" LWD Service														
Drilling Parameters														
Recorded Mode Data														

Schlumberger