

# MicroScopeHD Resistivity Image

## HD Resistivity Image

C0024A Run1, Real-Time Log, Time Index



Company: JAMSTEC

Well: C0024A

Field: C0024

Rig Name: D/V Chikyū

Prefecture: Wakayama

Country: Japan

Latitude: 33° 2' 2.638" N

Longitude: 136° 47' 23.946" E

Block:

UWID:

Rig Name:

Rig Type:

D/V Chikyū

Drill ship

FL: Pacific Ocean

FL1: X=667,159.78m

FL2: Y=3,656,517.23m

Log Measured From: - Drill Floor: 28.50 m  
Permanent Datum: - Mean Sea Level

Ground Level: 3841.50 m

Acquisition Dates: 05-Mar-2019 -- 10-Mar-2019

Log Interval: Mar-06, 2019 7:00AM - Mar-10, 2019, 7:00AM

Index Types: Time

Index Scales: 15 cm / 3600 secs

Depth Source: Driller's Depth

Depth Sensor: DES

Print Type: Field

Spud Date: 06-Mar-2019

Other Services:

Direction and Inclination

APWD

seismicVISION

SonicScope

## 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.

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## Well Sketch

**Driller Depth**  
**3870.000 m**





### Borehole Size/Casing Record

Bit					
Bit Size ( in )	8.5				
Top Driller ( m )	3870				
Bottom Driller ( m )	4739				

### Operational Run Summary




Parameter ( unit )	Run1				
Date Log Started	05-Mar-2019				
Time Log Started	12:00:28				
Date Log Finished	10-Mar-2019				
Time Log Finished	18:17:31				
Bit Size ( in )	8.500				
Bit Start Depth ( m )	3870.00				
Bit Stop Depth ( m )	4739.00				
Top Log Interval ( m )	3870.00				
Bottom Log Interval ( m )	4838.03				
Max Hole Deviation ( deg )	9.02				
Azimuth of Max Deviation ( deg )	265.80				
Logging Unit Number	OLU-MB8054				
Logging Unit Location	Zone2				
Recorded By	SMoriyama/YeP u				
Witnessed By	Y.Sanada/Y.Kido				
Service Order Number	19JAP0009				

### Borehole Fluids

Parameter( unit )	Run1				
Fluid Type	Water				
Fluid Name	Sea Water				
Max Recorded Temperatures ( degC )	NaN				
Source of Sample	Active Tank				
Salinity ( ppm )	32980.02				
Density ( g/cm3 )	1.025				

Funnel Viscosity ( s )						
Fluid Loss ( cm3 )						
PH						
Source RMF	Pressed					
RMC	Pressed					
RM @ Meas Temp ( ohm.m@degC )	0.2 @ 22.1					
RMF @ Meas Temp ( ohm.m@degC )	0.15 @ 20					
RMC @ Meas Temp ( ohm.m@degC )						
RM @ BHT ( ohm.m@degC )	0.07 @ 100					
RMF @ BHT ( ohm.m@degC )	0.05 @ 100					
RMC @ BHT ( ohm.m@degC )	NaN @ 100					
Total Solid ( % )						
High Gravity Solids ( % )						

## Remarks and Equipment Summary

Run1: Toolstring	Run1: Remarks																																														
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;"><b>Equip name</b></td> <td style="width: 15%;"><b>Length</b></td> <td style="width: 50%;"></td> <td style="width: 15%;"><b>MP name</b></td> <td style="width: 5%;"><b>Offset</b></td> </tr> <tr> <td>Ft Sub: 6 3/4":091 5986-3</td> <td>35.88</td> <td></td> <td>Schlumberger</td> <td></td> </tr> <tr> <td>X/O: 6 3/4"[2]:18 11-76</td> <td>35.09</td> <td></td> <td>Schlumberger</td> <td></td> </tr> <tr> <td>seismicVISION675</td> <td>34.48</td> <td></td> <td>Schlumberger</td> <td></td> </tr> <tr> <td>SONICSCOPE6</td> <td>30.00</td> <td></td> <td>Schlumberger</td> <td></td> </tr> <tr> <td>Seismic</td> <td></td> <td></td> <td></td> <td>32.1</td> </tr> <tr> <td>ROP</td> <td></td> <td></td> <td></td> <td>31.18</td> </tr> <tr> <td>ROP</td> <td></td> <td></td> <td></td> <td>27.07</td> </tr> <tr> <td>Delta-T</td> <td></td> <td></td> <td></td> <td>25.86</td> </tr> </table>	<b>Equip name</b>	<b>Length</b>		<b>MP name</b>	<b>Offset</b>	Ft Sub: 6 3/4":091 5986-3	35.88		Schlumberger		X/O: 6 3/4"[2]:18 11-76	35.09		Schlumberger		seismicVISION675	34.48		Schlumberger		SONICSCOPE6	30.00		Schlumberger		Seismic				32.1	ROP				31.18	ROP				27.07	Delta-T				25.86	<p>Depth Reference is driller's depth measured from Rotary Table.</p> <p>Data presented is Recorded Mode data which was acquired while drilling.</p> <p>MicroScope record rate is depending on RPM. APWD record rate is 10s.</p> <p>arcVISION GR is environmentally corrected for bit size, mud weight. No potassium content is assumed in sea water.</p> <p>Reason of POOH:Client called TD.</p> <p>Pumping Time:90.59hrs.</p> <p>Drilling Time:50.20hrs.</p>	
	<b>Equip name</b>	<b>Length</b>		<b>MP name</b>	<b>Offset</b>																																										
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TELE675-IWOB 19.99

Schlumberger

D&I 15.69

GR 15.04

ROP 13.34

IWOB 12.33

ARC6 11.56

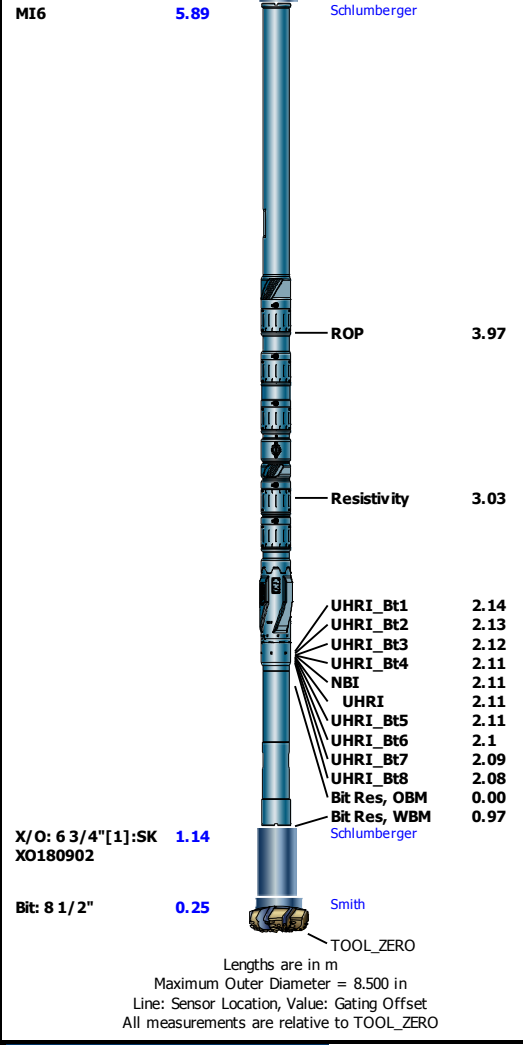
Schlumberger

ROP 9.35

GR 8.28

Resistivity 8.23

Pressure 7.52



## Survey Record

### Survey Calculation

Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	Grid North	Total Correction Formula :	Magnetic Dec - Grid Convergence
Grid Convergence :	0.98 deg		

### Rig Location

Latitude :	33° 2' 2.638" N	Longitude :	136° 47' 23.946" E
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### 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 :	HDGM 2018	Geomagnetic Date :	05-Mar-2019
Computed Location B :	46004.34 nT +/- 300.00nT	Used Location B :	46004.34 nT +/- 300.00nT
Computed Location G :	998.89 mgn +/- 2.50mgn	Used Location G :	998.89 mgn +/- 2.50mgn
Computed Magnetic Dip :	46.61 deg +/- 0.45deg	Used Magnetic Dip :	46.61 deg +/- 0.45deg
Computed Magnetic Dec :	-7.11 deg	Used Magnetic Dec :	-7.11 deg
Computed Total Correction :	-8.09 deg	Used Total Correction :	-8.09 deg

### Survey Quality Index

0 : Long Survey passed all criteria	3 : Long Survey failed G criteria	9 : Manual
28 : Tie-In Point		

### Survey Correction Index

0 : No correction
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### Survey Description Index

0 : Not Flagged Survey
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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/30m)	Tool Type	QI	CI	DI
1	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	00.00	0.00	TIP	28	0	0

2	3870.00	0.00	0.00	3870.00	3870.00	0.00	0.00	0.00	0.00	90.00	0.00	Other	9	0	0
3	3928.66	5.53	227.41	58.66	3928.57	-1.92	-1.92	-2.08	2.83	227.41	2.83	TeleScope	0	0	0
4	3945.27	6.65	227.96	16.61	3945.09	-3.10	-3.10	-3.39	4.59	227.52	2.02	TeleScope	3	0	0
5	3983.90	6.50	229.68	38.63	3983.46	-6.01	-6.01	-6.72	9.02	228.15	0.20	TeleScope	0	0	0
6	4021.67	5.22	233.96	37.77	4021.03	-8.41	-8.41	-9.74	12.86	229.18	1.07	TeleScope	3	0	0
7	4058.60	4.79	237.67	36.93	4057.82	-10.22	-10.22	-12.40	16.07	230.49	0.44	TeleScope	0	0	0
8	4098.71	4.75	239.28	40.11	4097.79	-11.97	-11.97	-15.24	19.38	231.86	0.10	TeleScope	0	0	0
9	4134.48	4.68	237.87	35.77	4133.44	-13.50	-13.50	-17.75	22.30	232.75	0.11	TeleScope	3	0	0
10	4175.94	5.03	243.39	41.47	4174.76	-15.22	-15.22	-20.81	25.78	233.83	0.42	TeleScope	0	0	0
11	4213.66	4.82	248.95	37.72	4212.34	-16.52	-16.52	-23.77	28.95	235.19	0.41	TeleScope	3	0	0
12	4246.12	4.93	251.76	32.46	4244.68	-17.45	-17.45	-26.36	31.62	236.50	0.24	TeleScope	3	0	0
13	4284.84	4.65	259.91	38.72	4283.27	-18.25	-18.25	-29.49	34.68	238.25	0.57	TeleScope	0	0	0
14	4324.77	4.72	259.22	39.93	4323.06	-18.84	-18.84	-32.70	37.74	240.05	0.07	TeleScope	3	0	0
15	4363.64	5.00	260.37	38.87	4361.78	-19.42	-19.42	-35.94	40.85	241.62	0.23	TeleScope	3	0	0
16	4403.00	5.52	262.02	39.37	4400.99	-19.97	-19.97	-39.51	44.27	243.18	0.41	TeleScope	3	0	0
17	4442.09	5.79	263.71	39.08	4439.88	-20.45	-20.45	-43.33	47.91	244.74	0.25	TeleScope	0	0	0
18	4481.48	6.33	263.42	39.39	4479.06	-20.91	-20.91	-47.46	51.86	246.22	0.41	TeleScope	0	0	0
19	4520.43	6.69	264.04	38.94	4517.75	-21.40	-21.40	-51.85	56.09	247.58	0.28	TeleScope	3	0	0
20	4559.50	6.97	261.56	39.08	4556.55	-21.98	-21.98	-56.46	60.58	248.73	0.31	TeleScope	0	0	0
21	4598.70	7.31	265.11	39.19	4595.44	-22.54	-22.54	-61.29	65.31	249.81	0.43	TeleScope	0	0	0
22	4637.51	7.84	264.94	38.81	4633.91	-22.99	-22.99	-66.39	70.26	250.90	0.41	TeleScope	0	0	0
23	4677.28	8.43	264.38	39.77	4673.28	-23.51	-23.51	-71.99	75.73	251.91	0.45	TeleScope	0	0	0
24	4716.26	9.02	265.80	38.98	4711.81	-24.01	-24.01	-77.89	81.50	252.86	0.48	TeleScope	0	0	0

## Run1

### Software Version

Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100

### Pass Summary

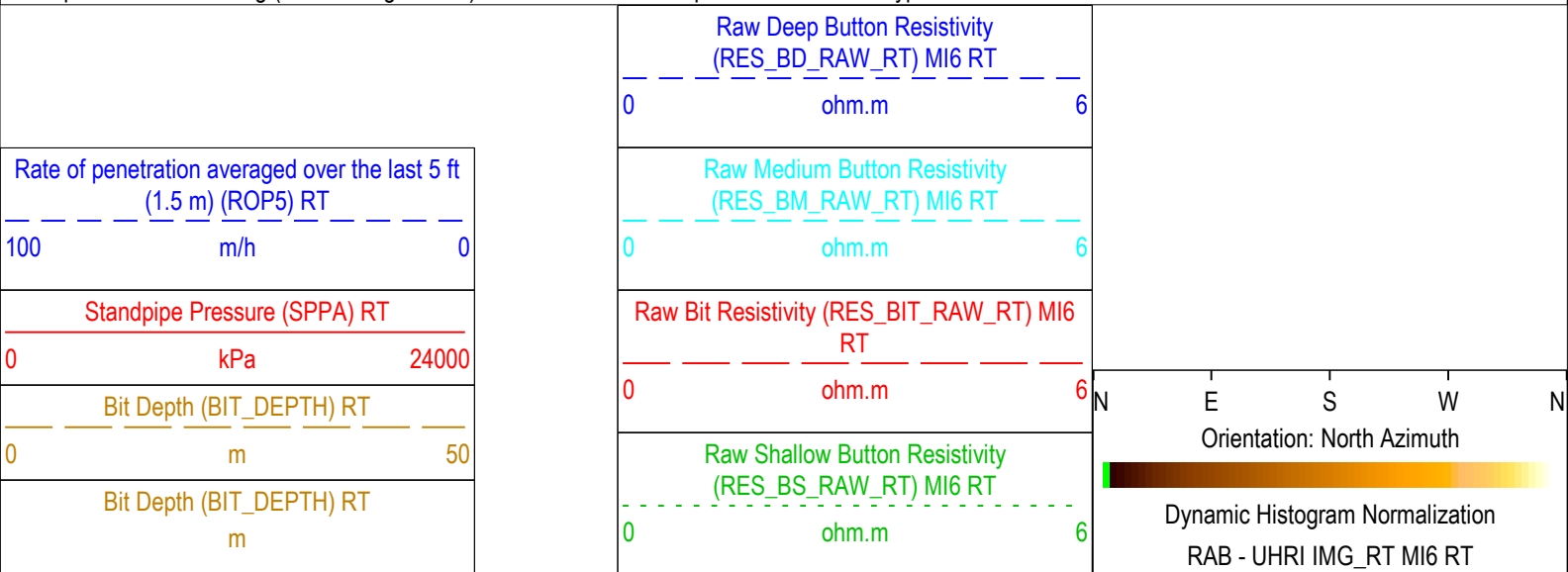
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Run1	TimeLogicalAcq	Down	05-Mar-2019 12:00:28 PM	10-Mar-2019 6:17:31 PM	No

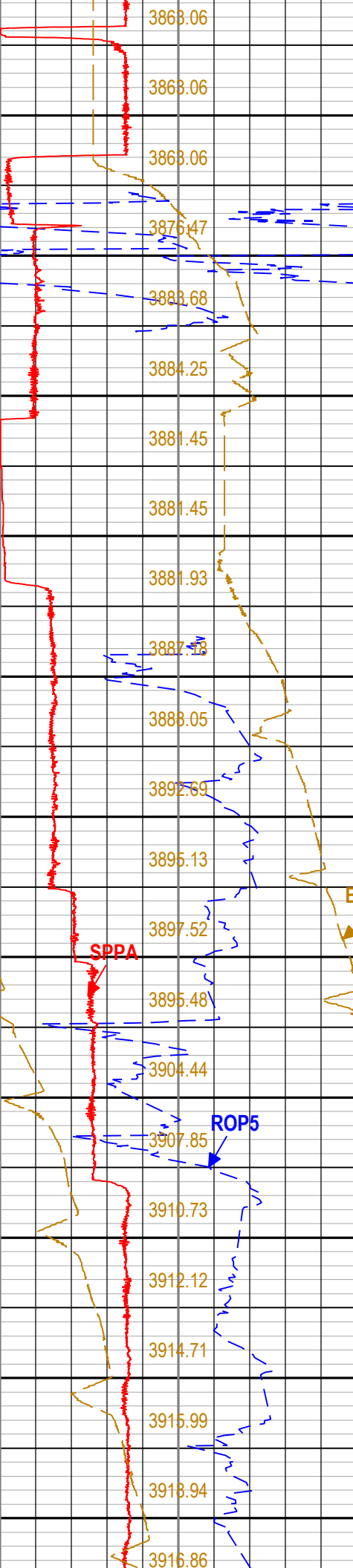
### Log

Company: JAMSTEC    Well: C0024A

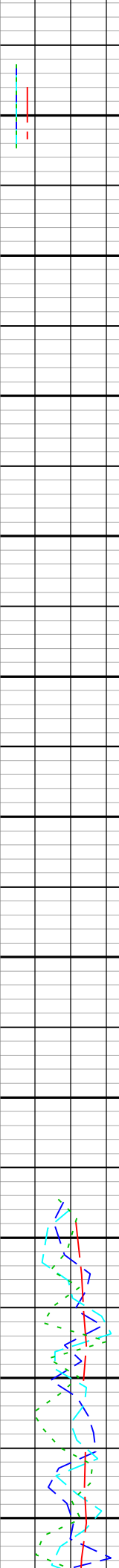
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Description:    Format: Log ( UHRI Image Time )    Index Scale: 15 cm per 3600 s    Index Type: Time    Creation Date: 11-Mar-2019 09:26:56

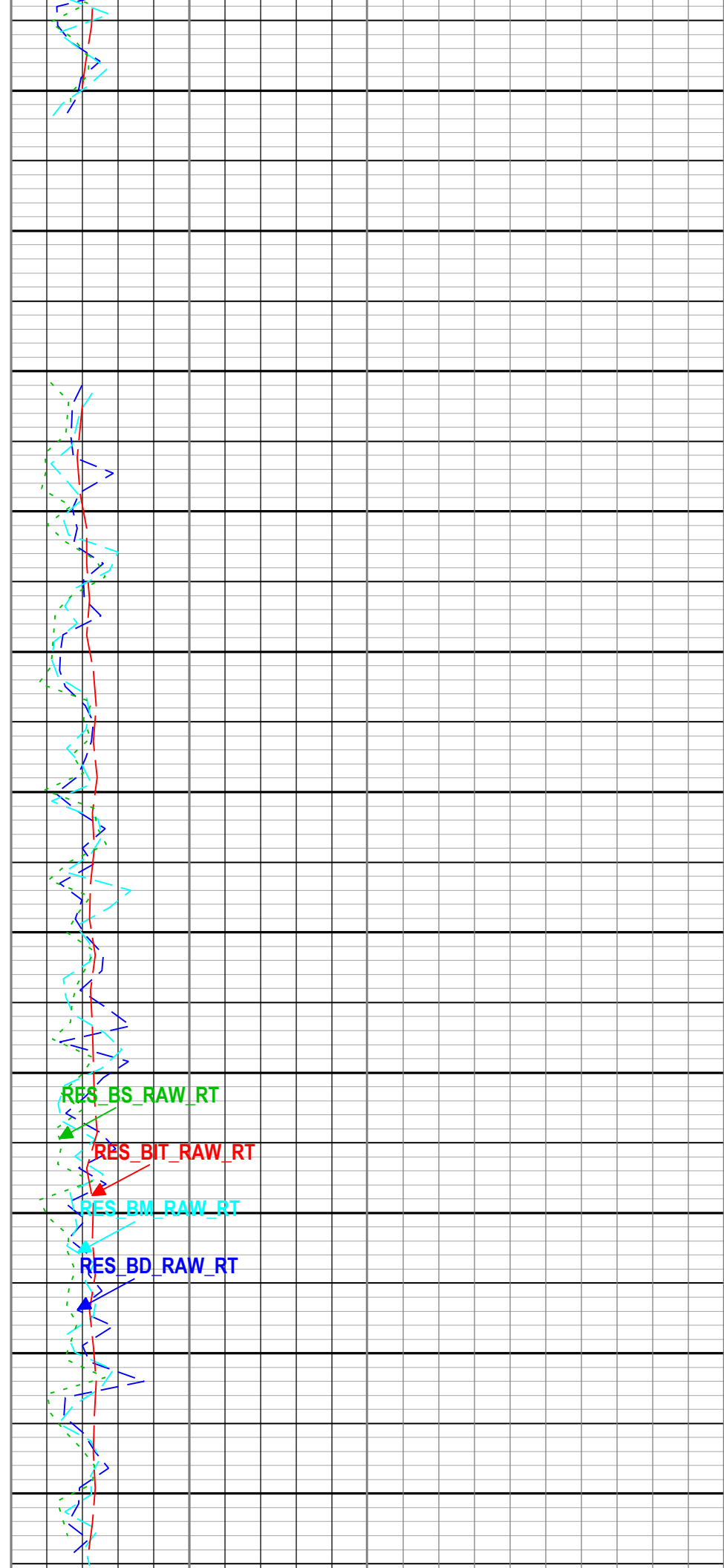
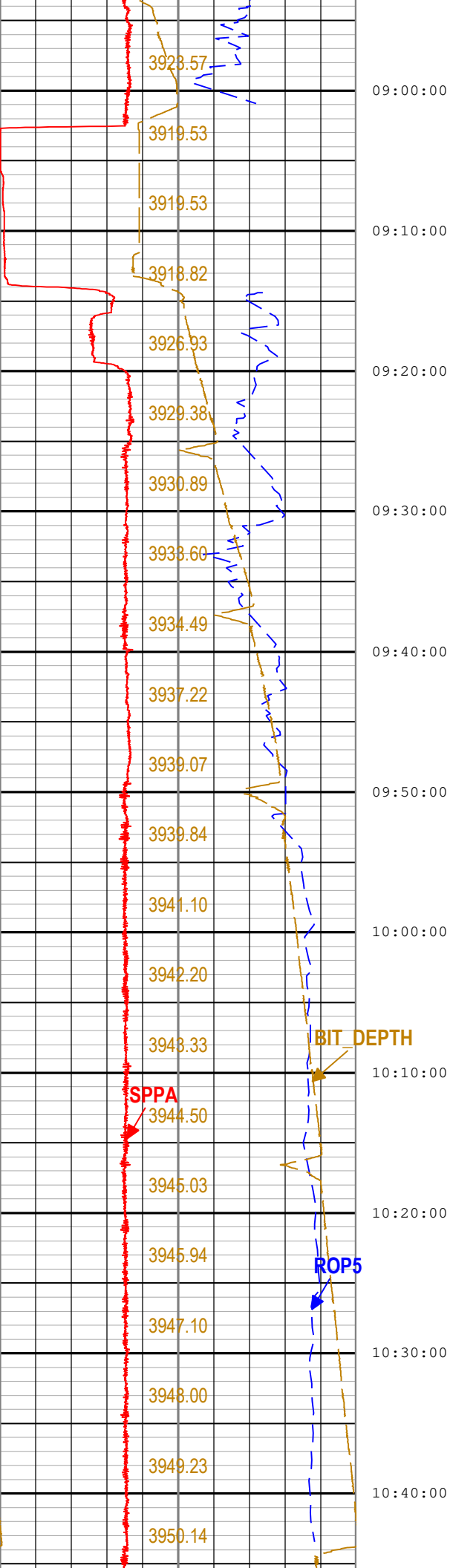


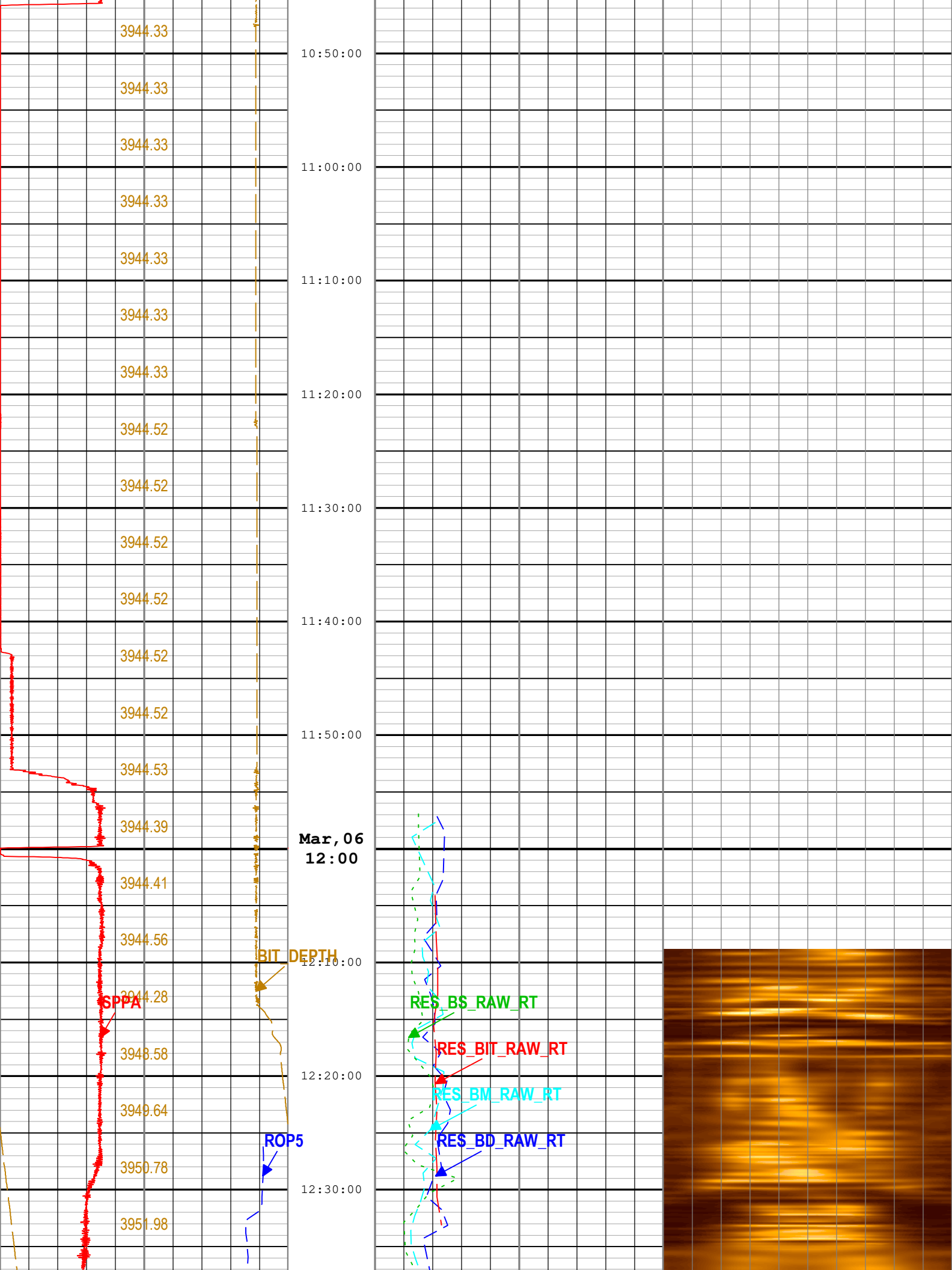


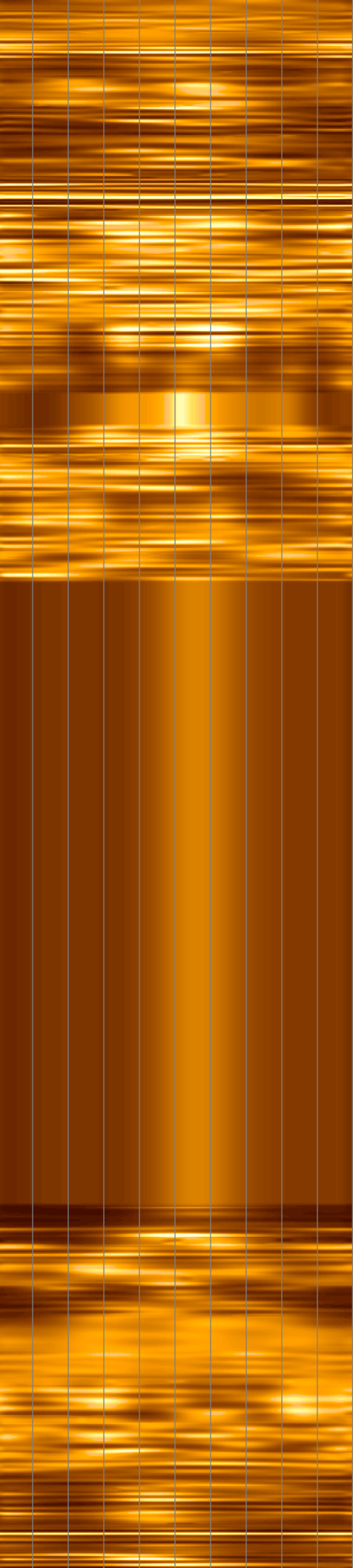
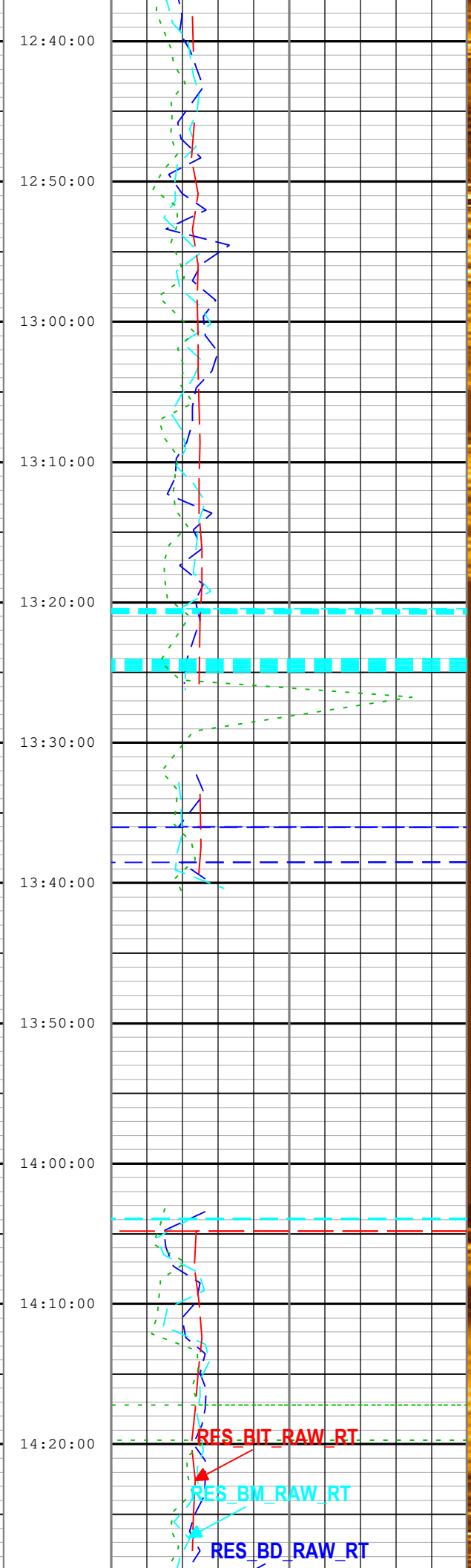
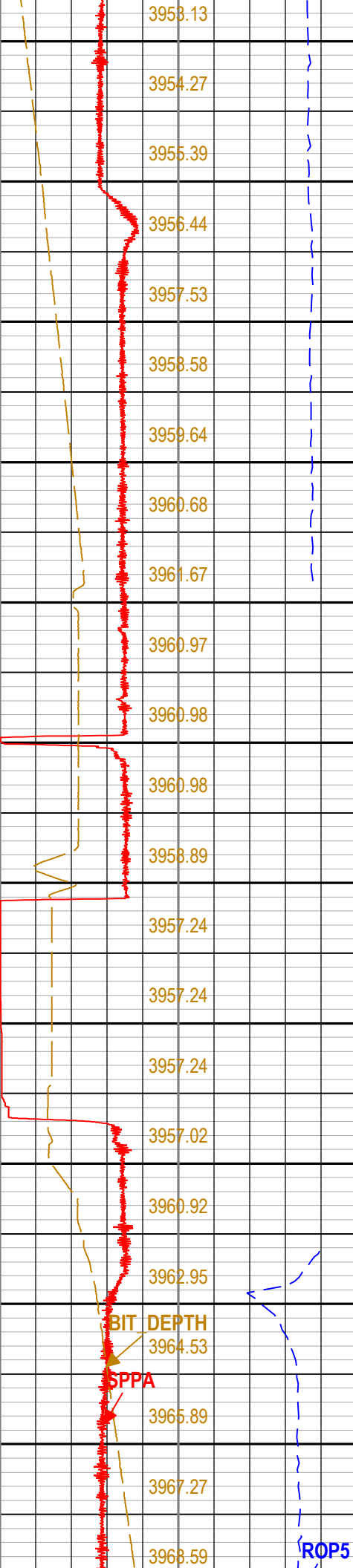
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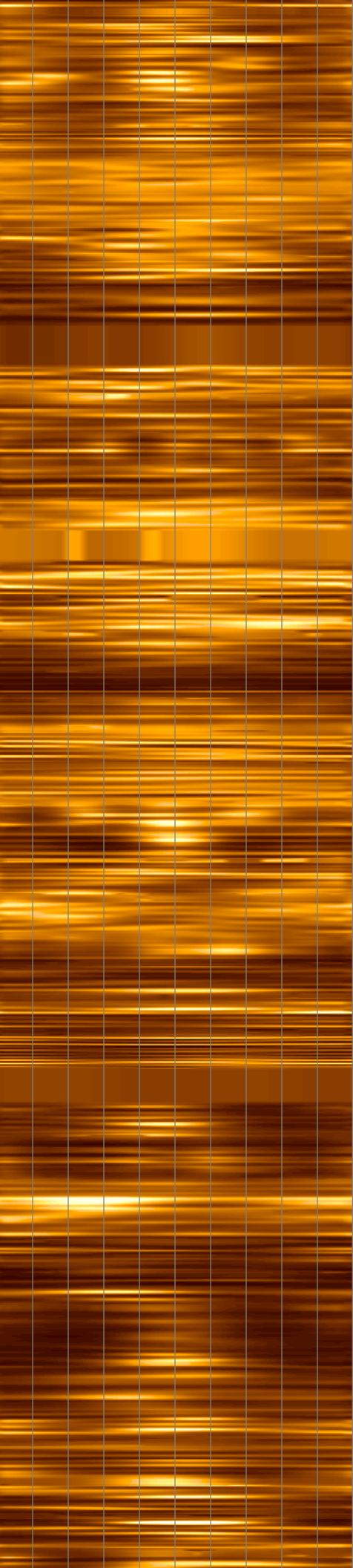
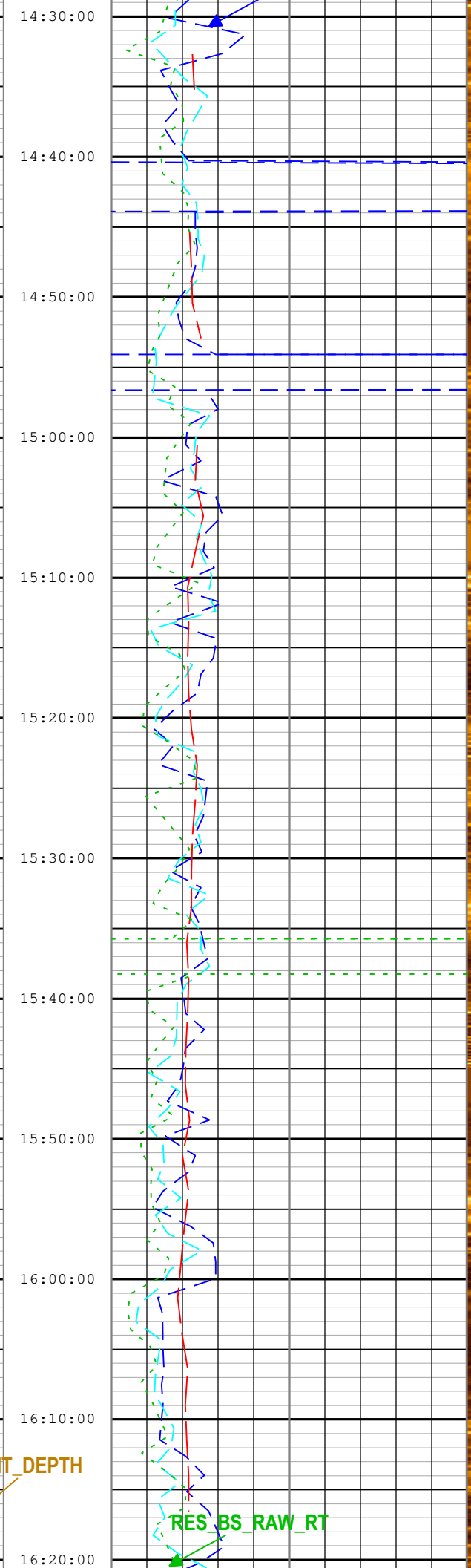
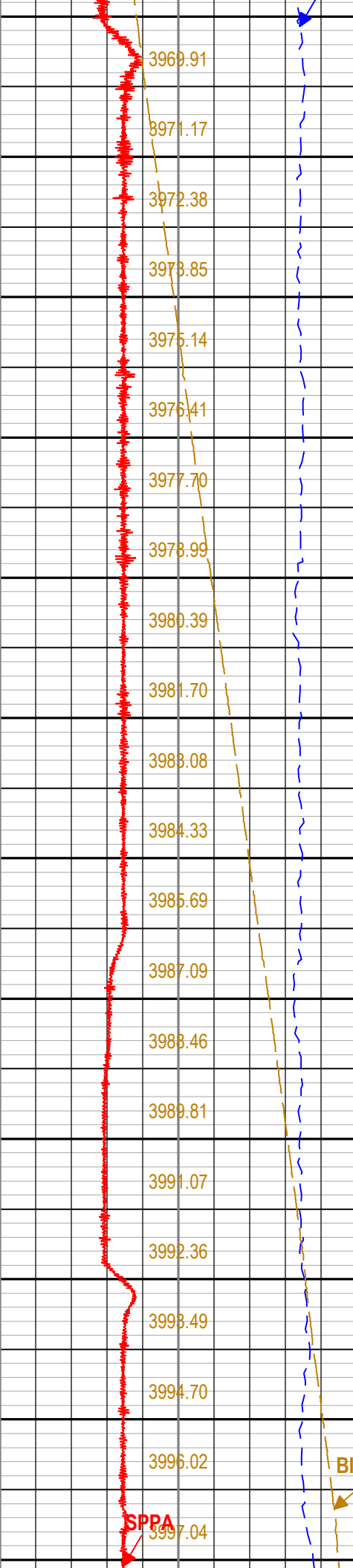


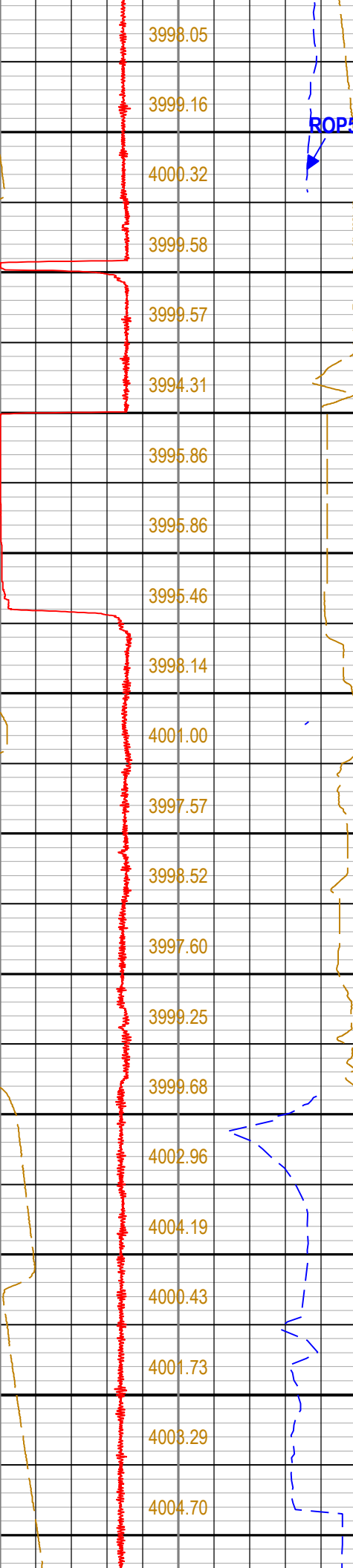




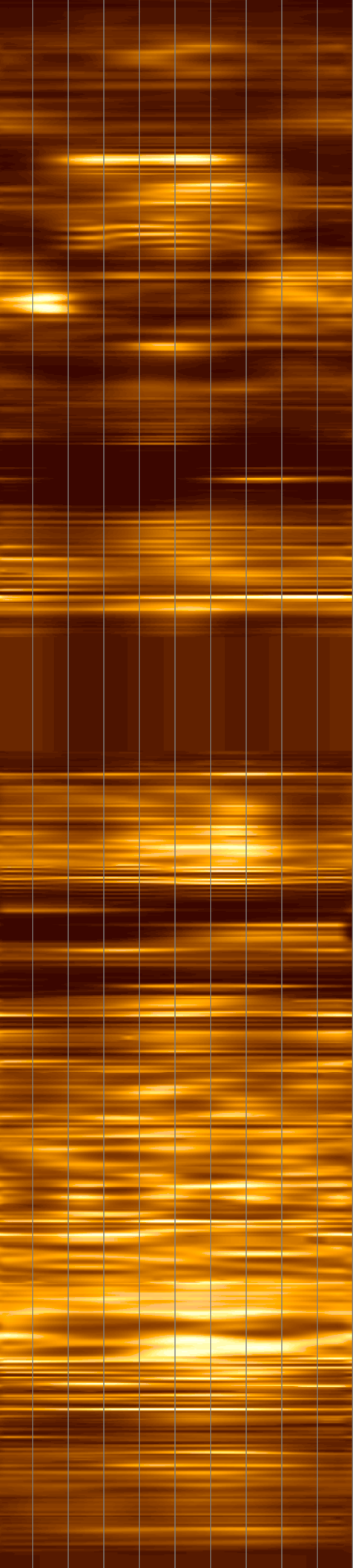
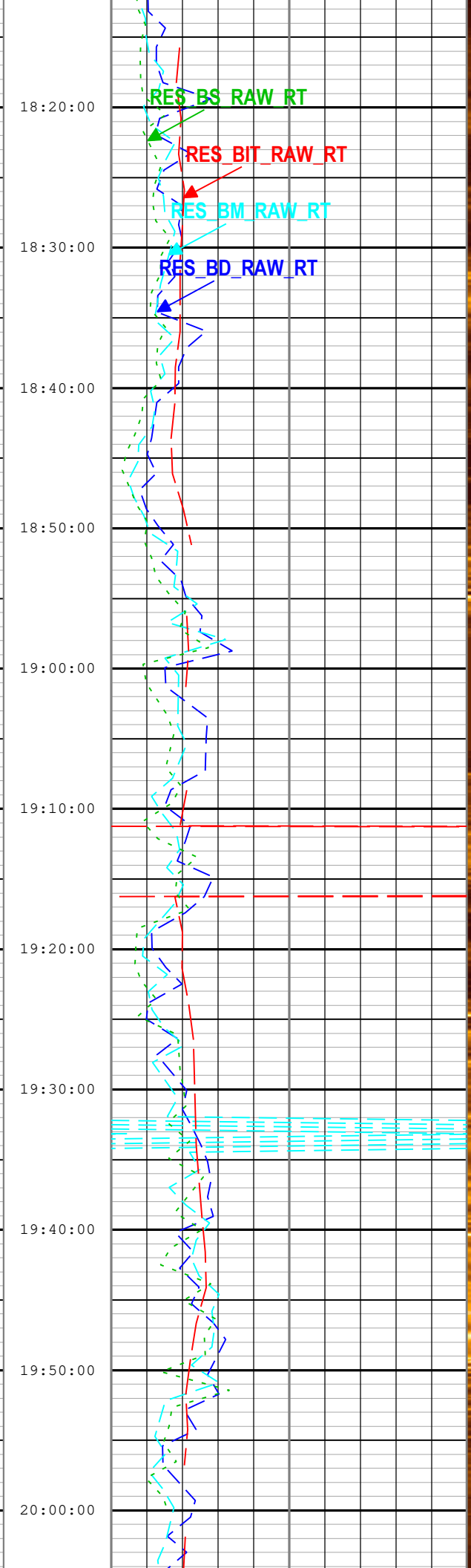
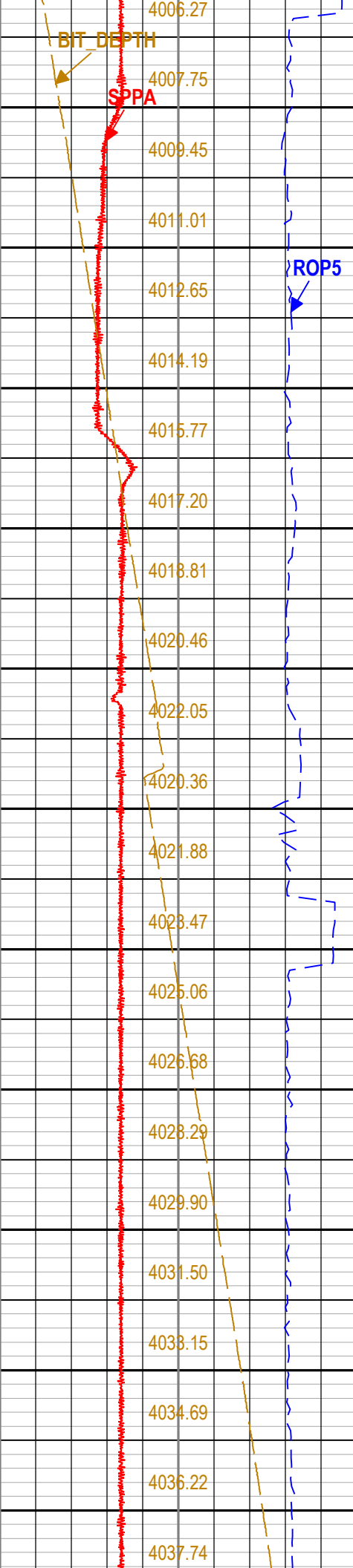


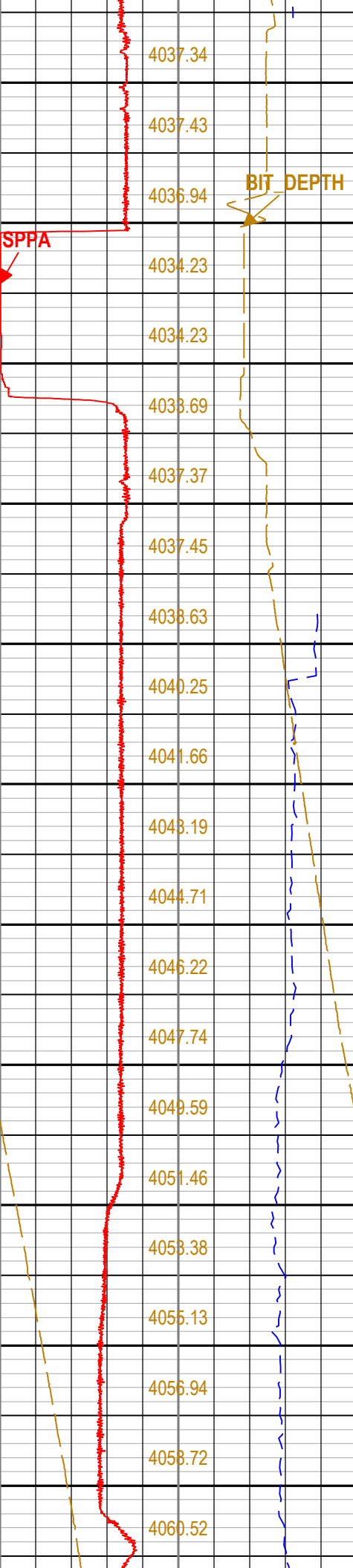




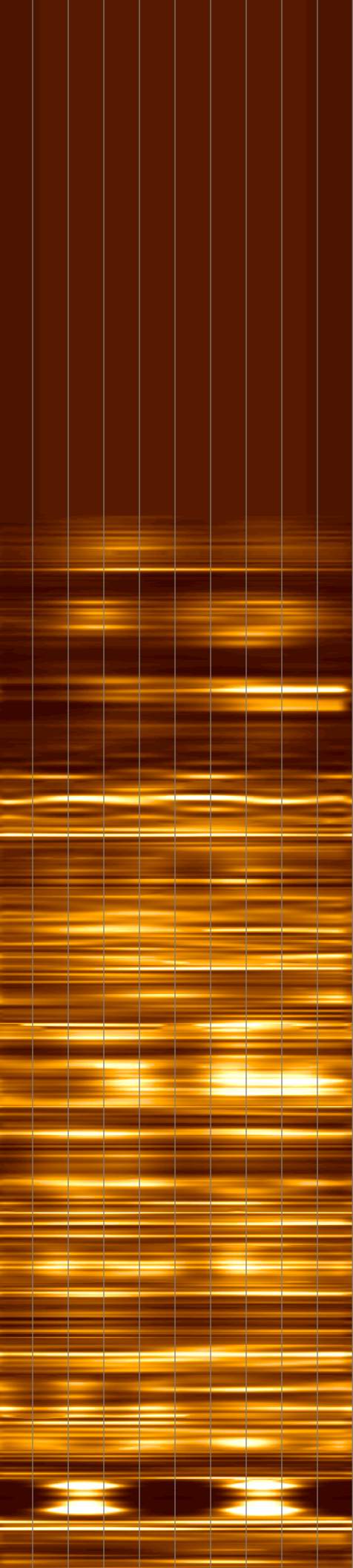
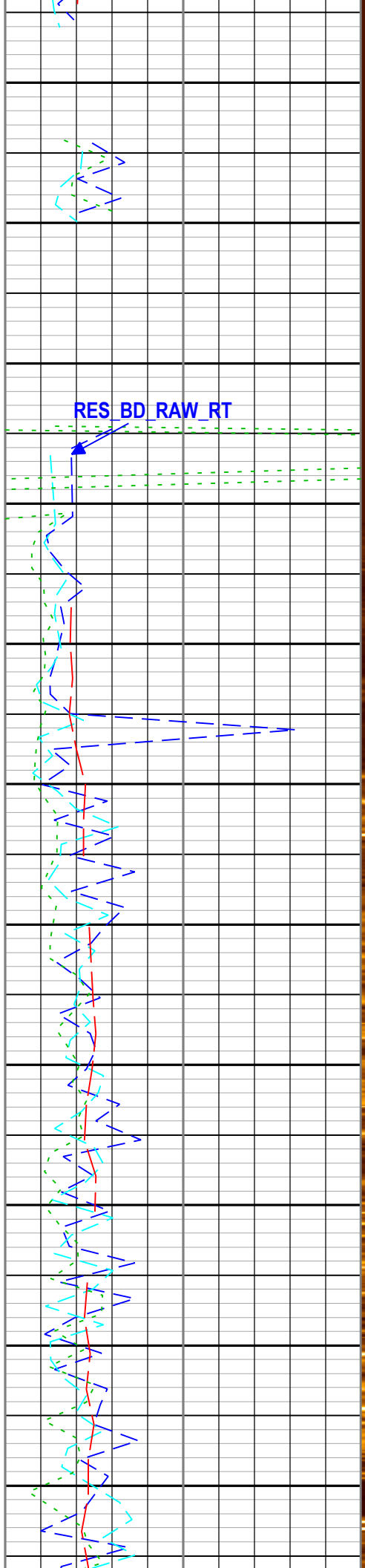


Mar, 06  
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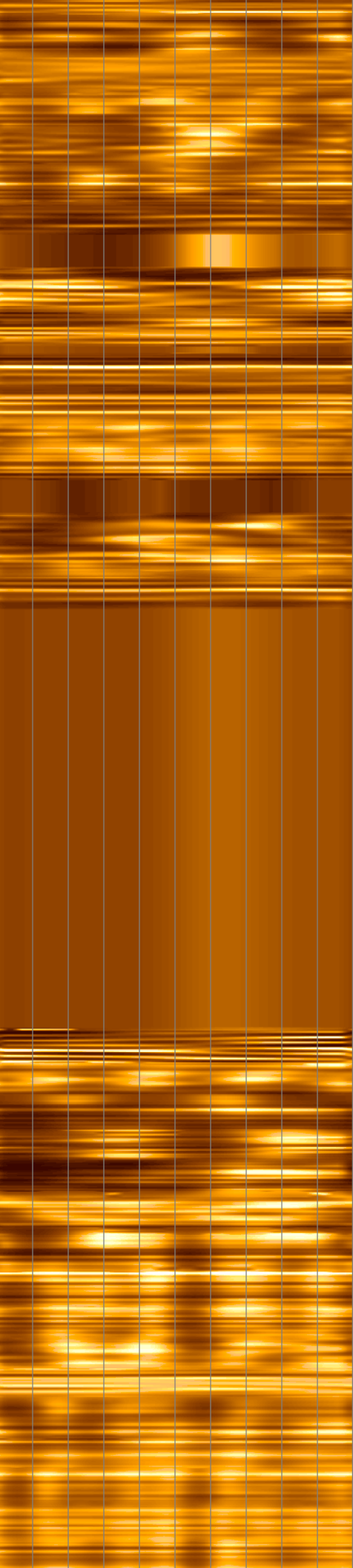
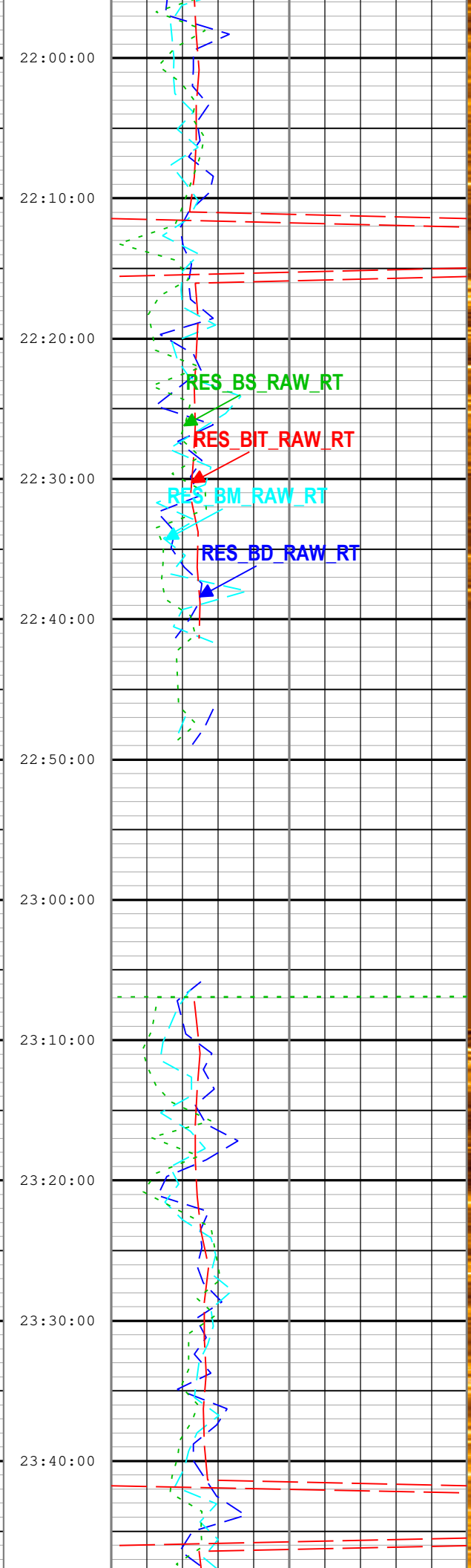
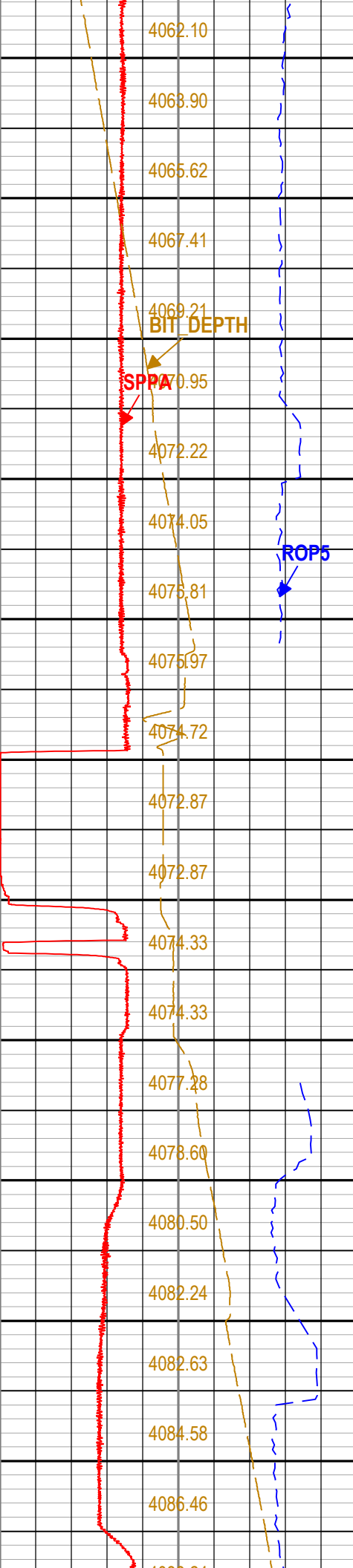




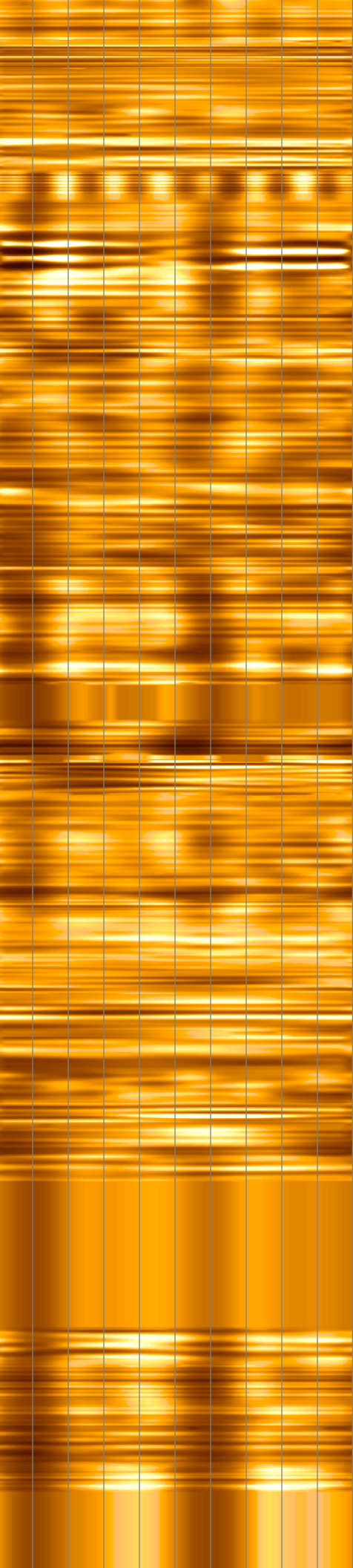
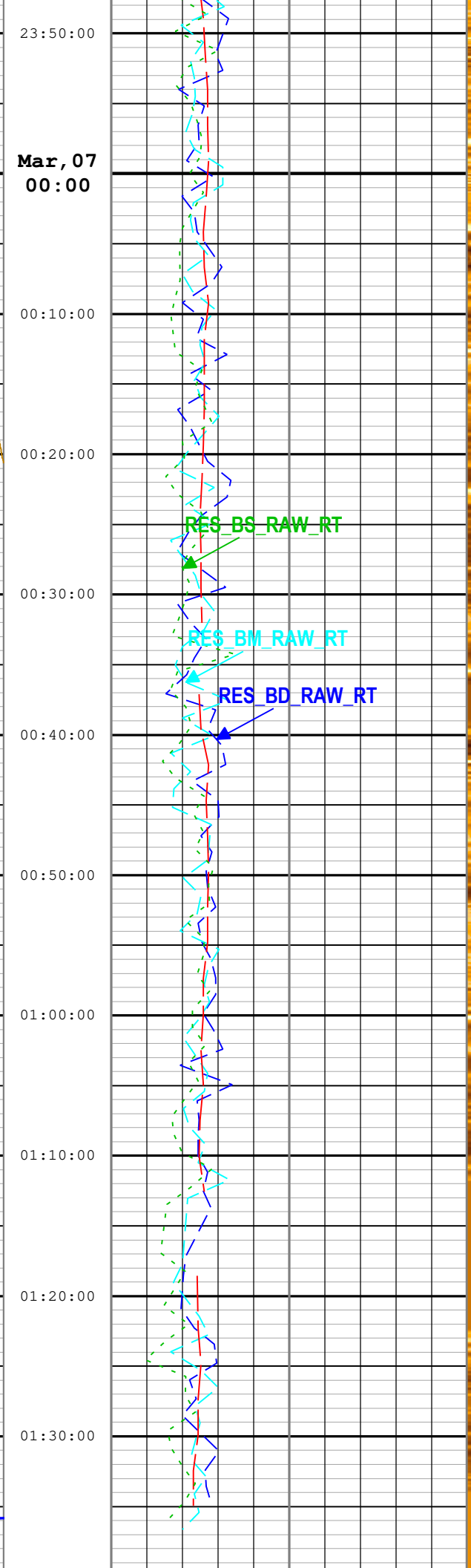
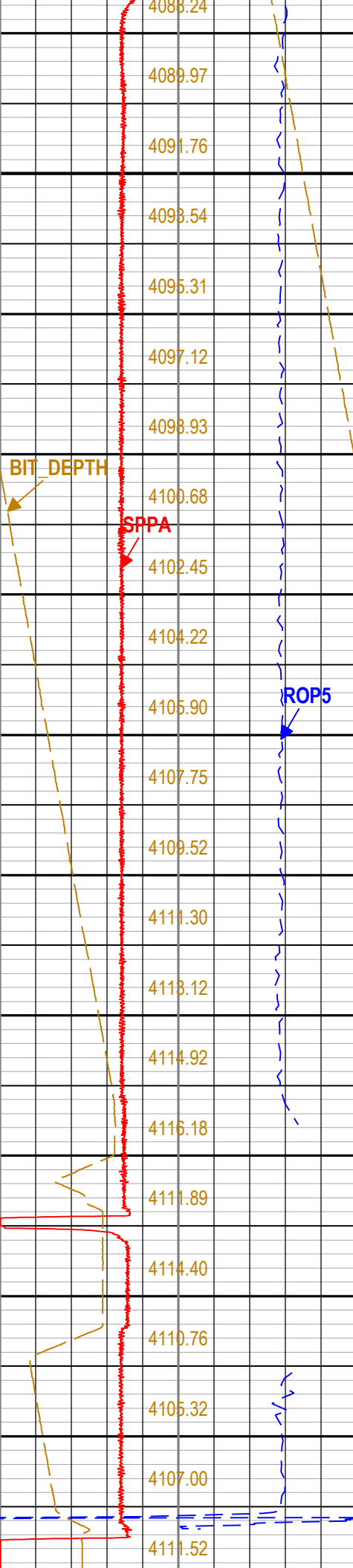
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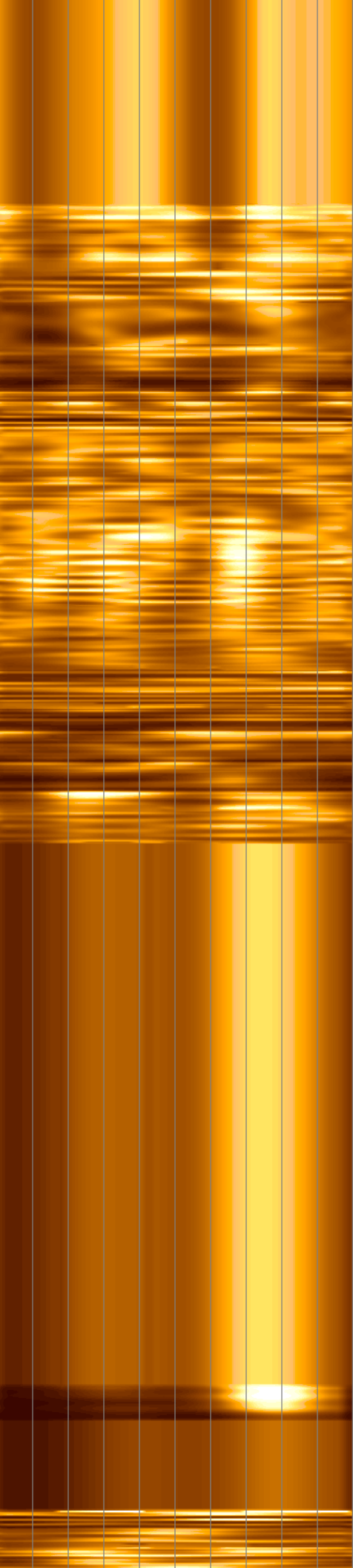
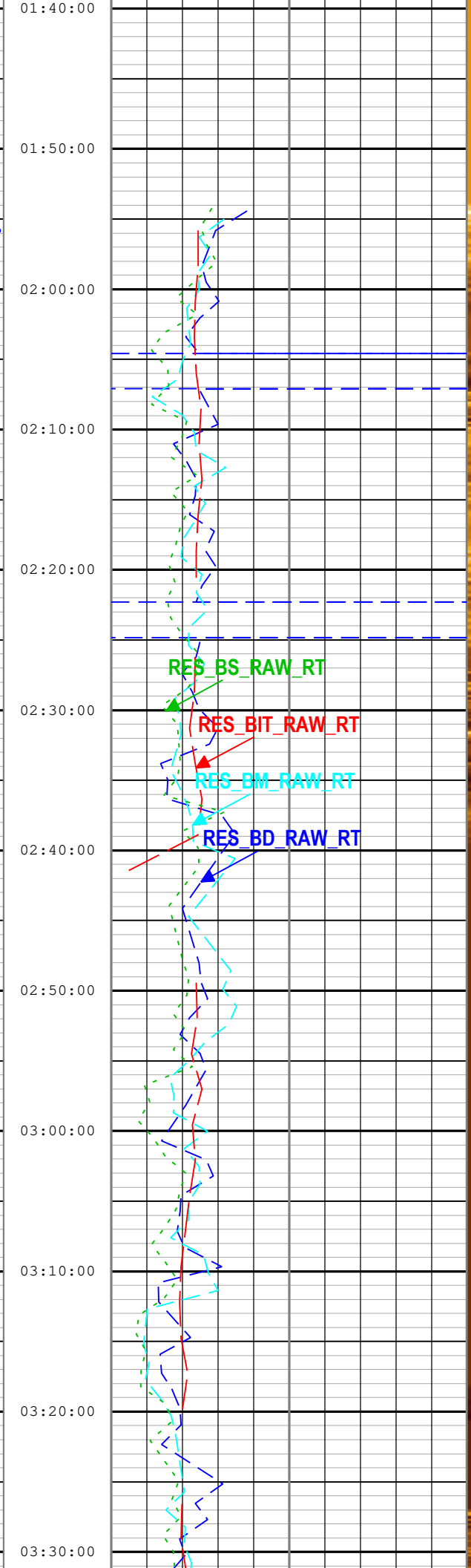
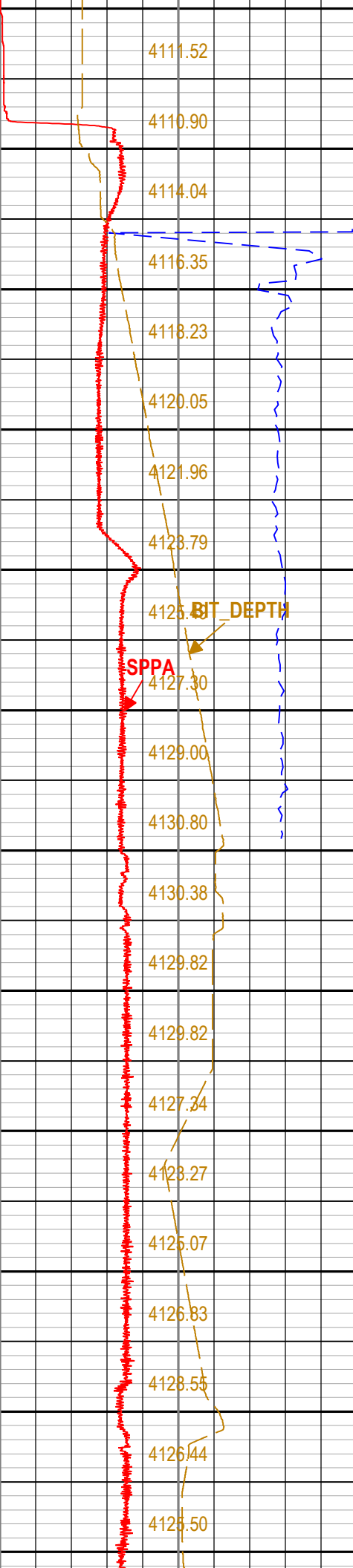


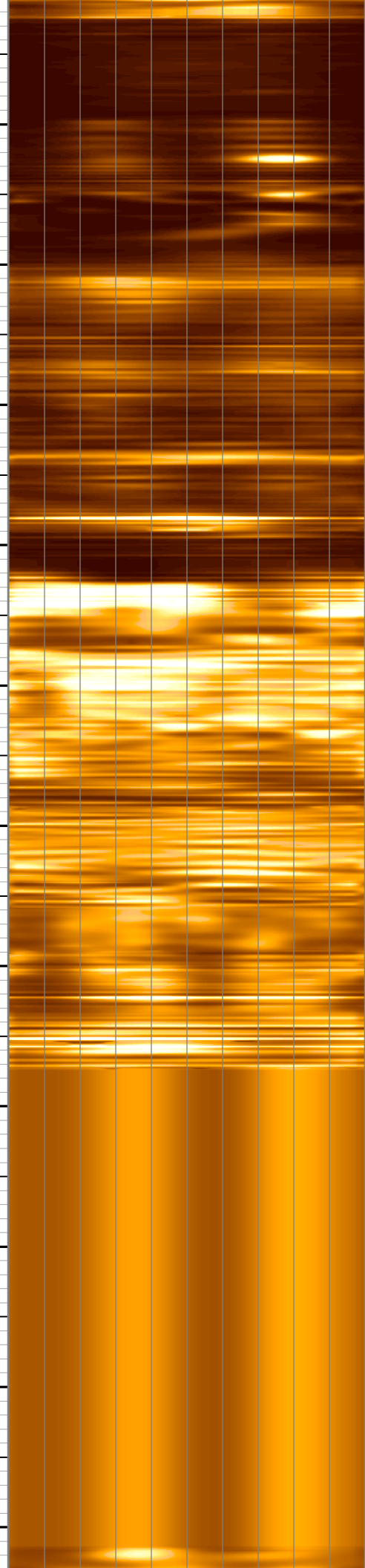
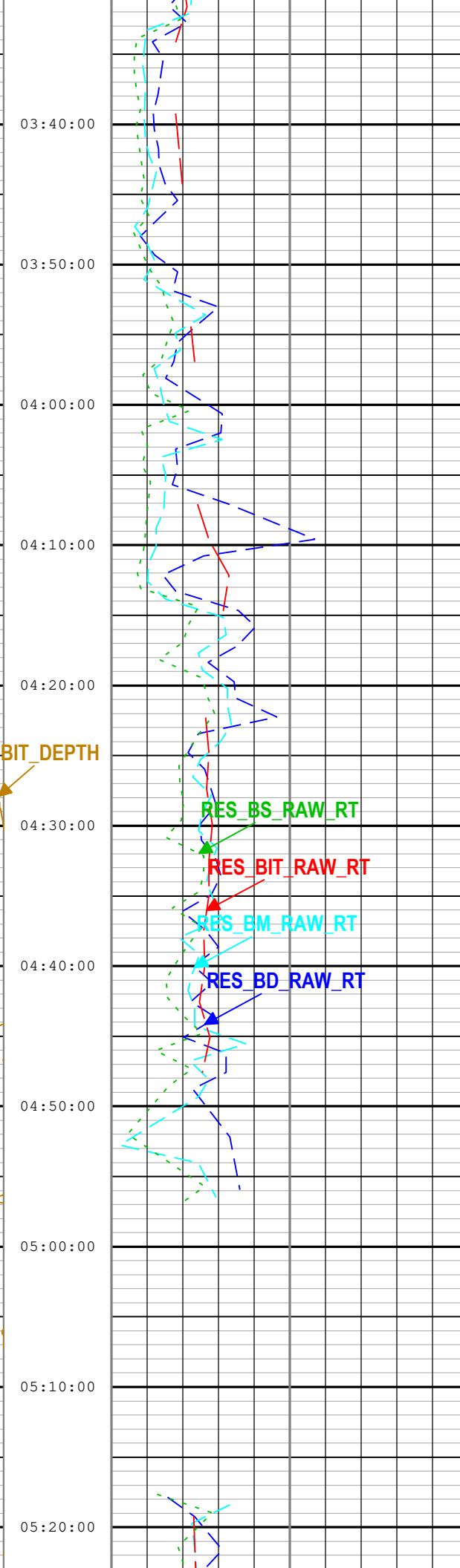
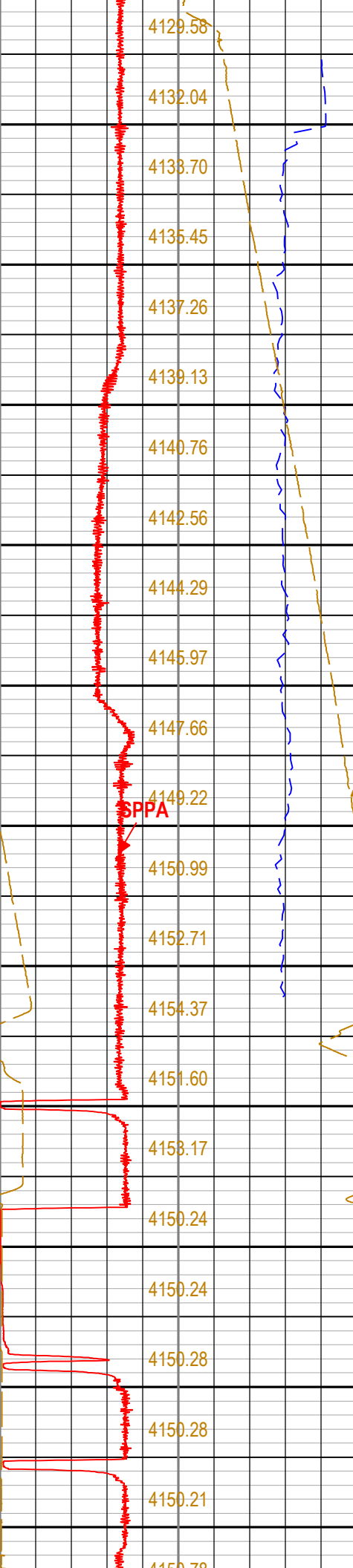


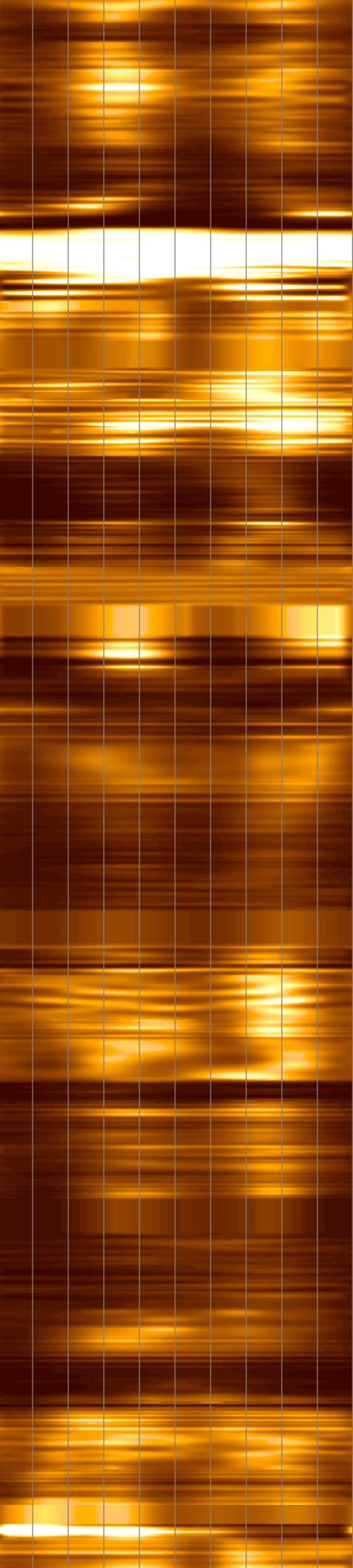
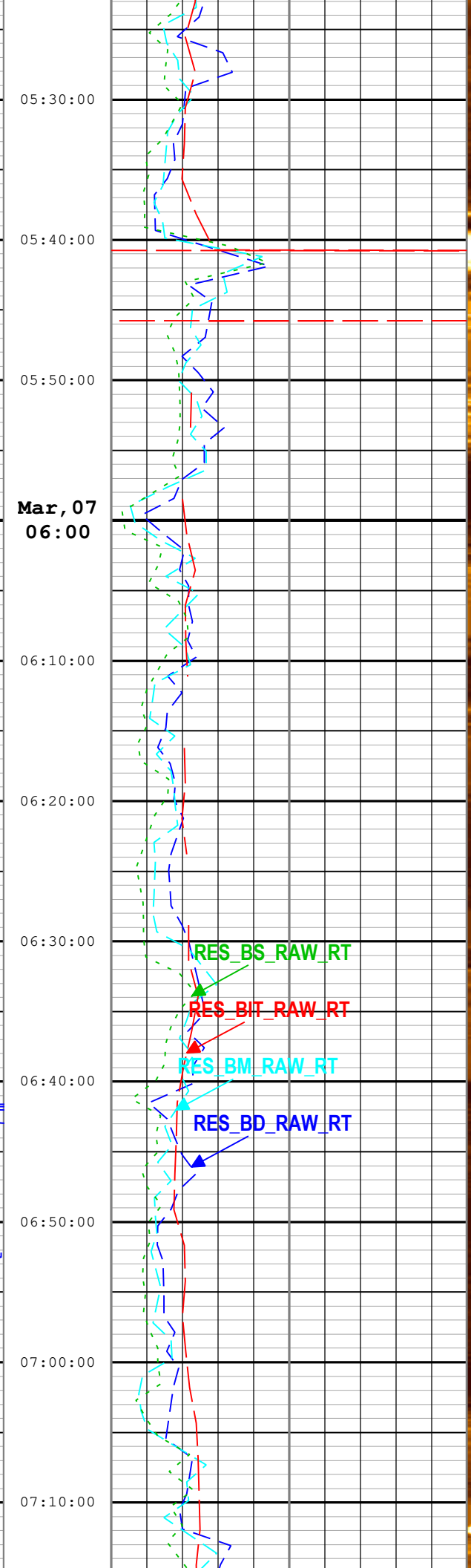
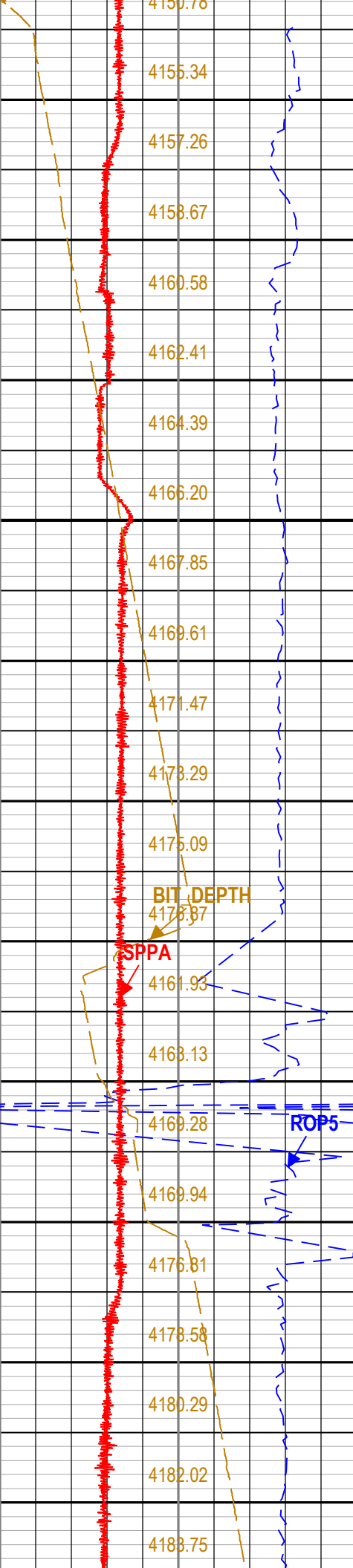


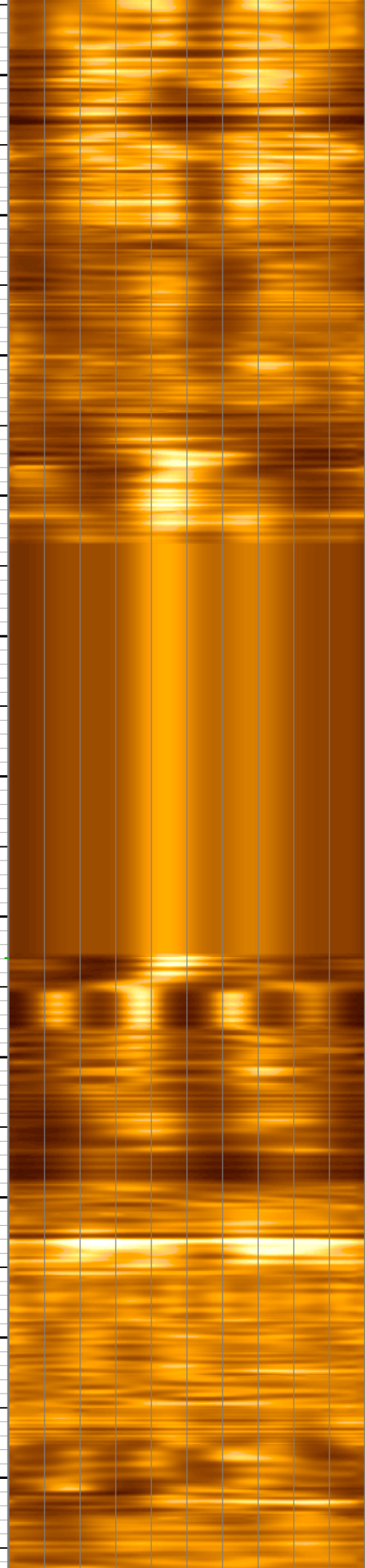
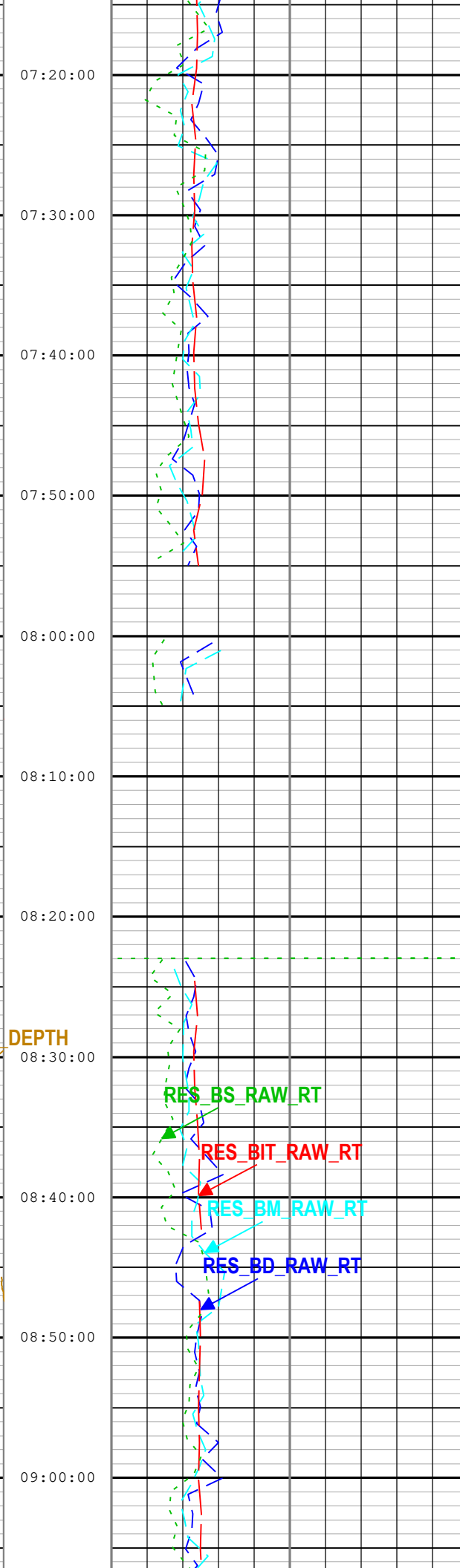
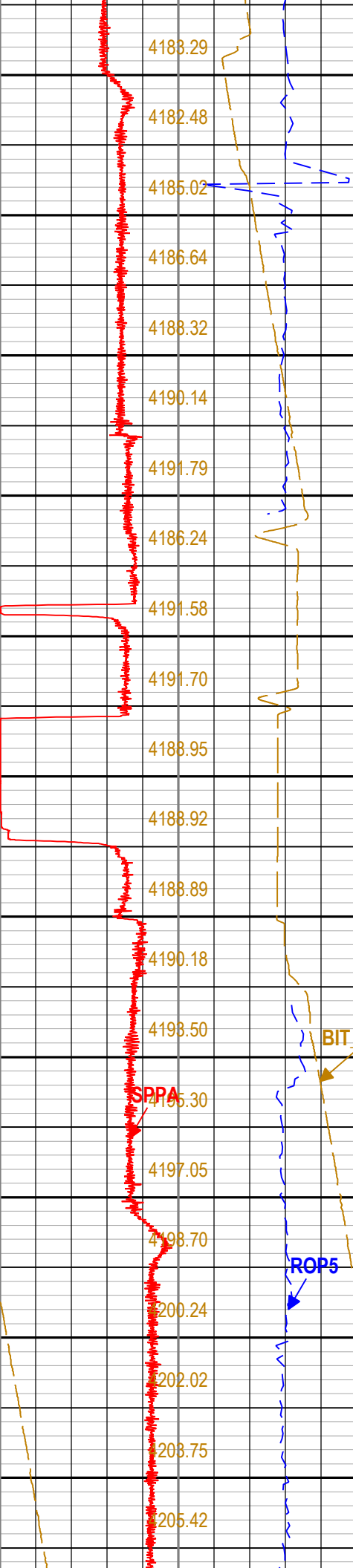




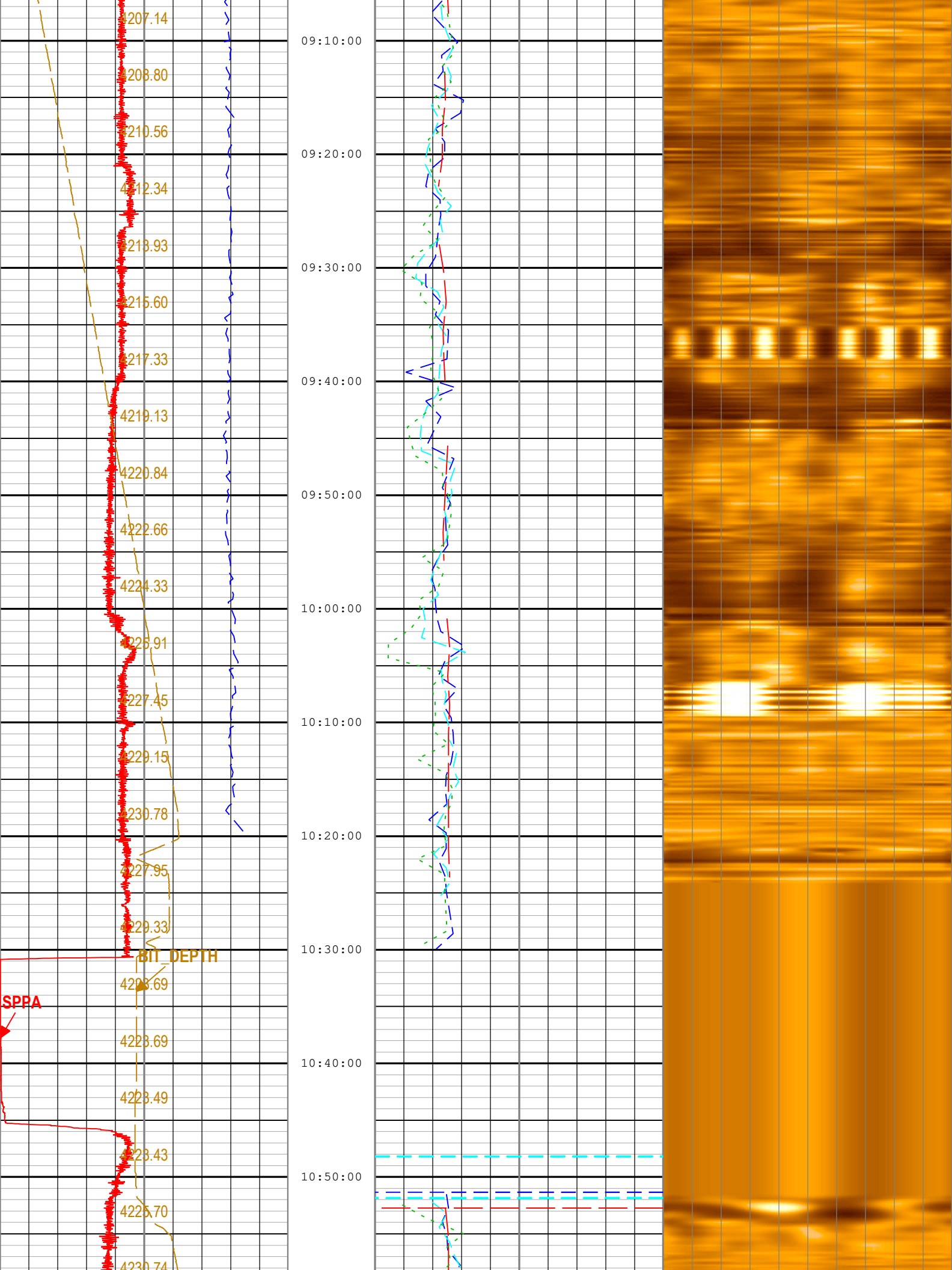


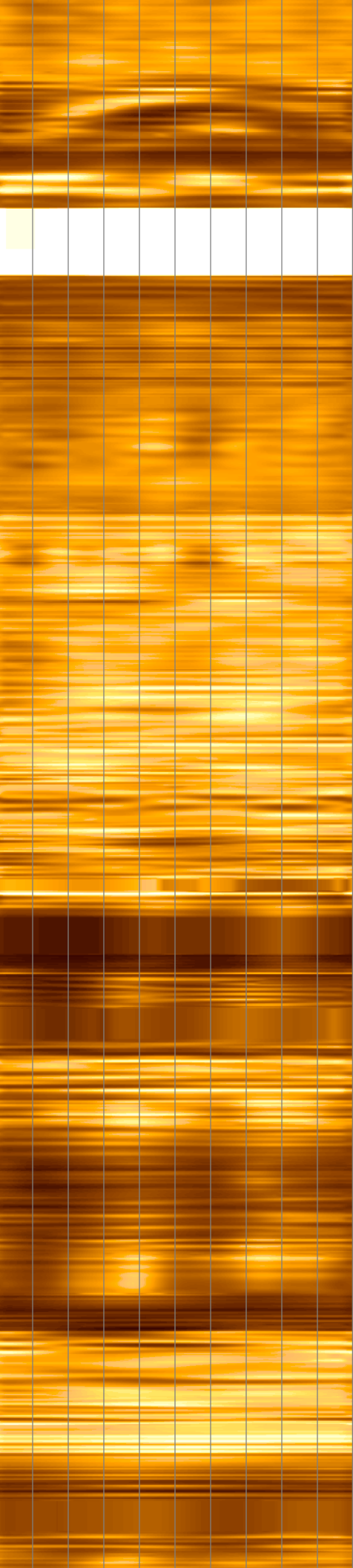
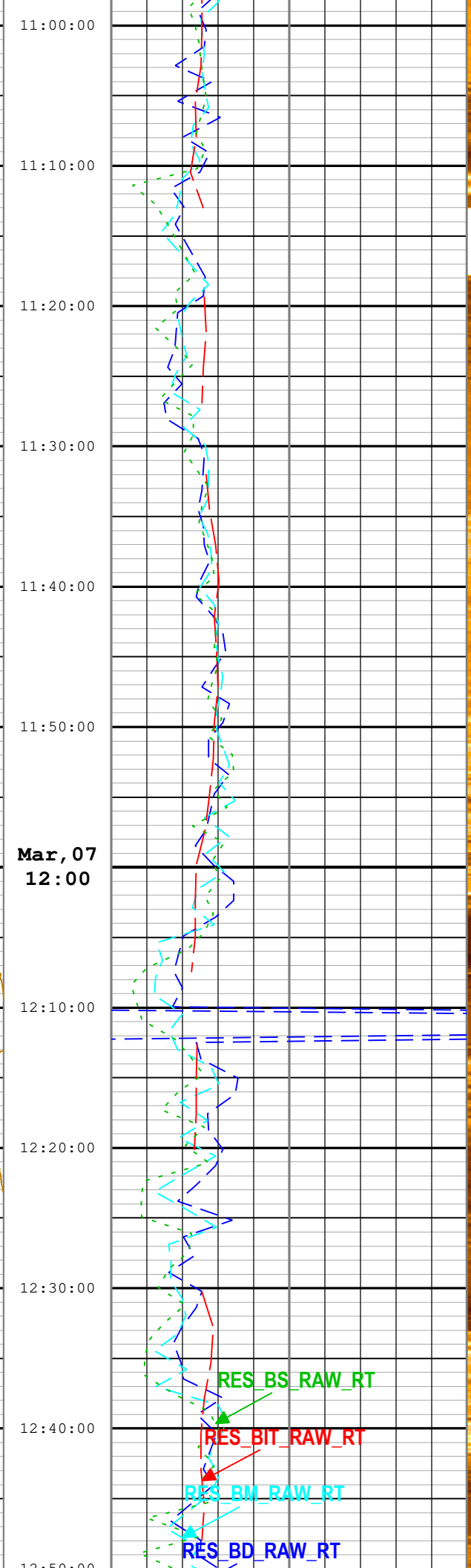
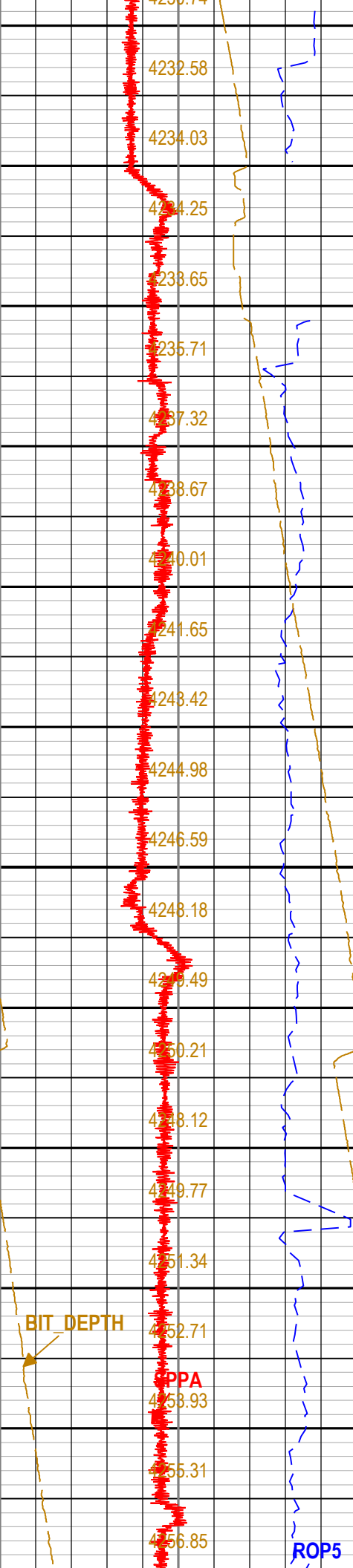


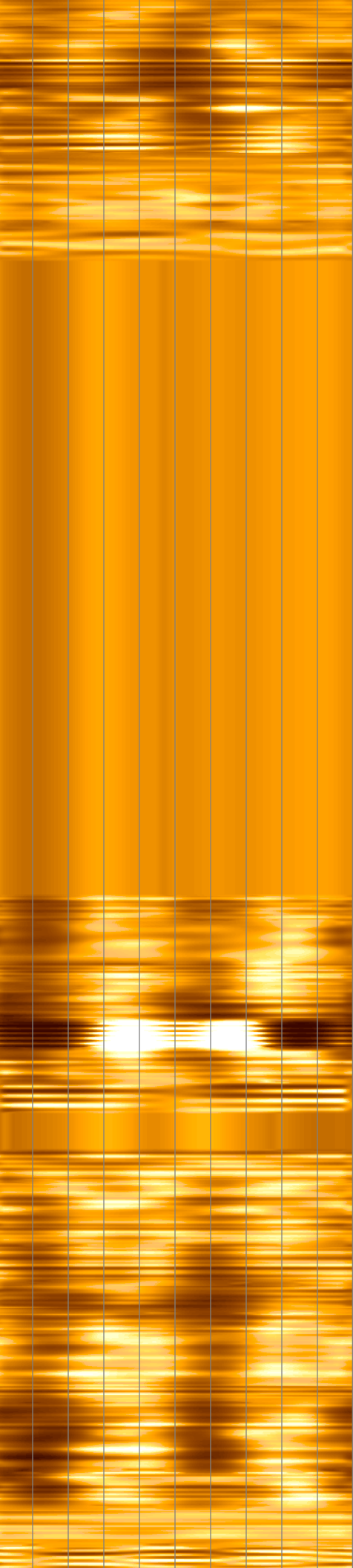
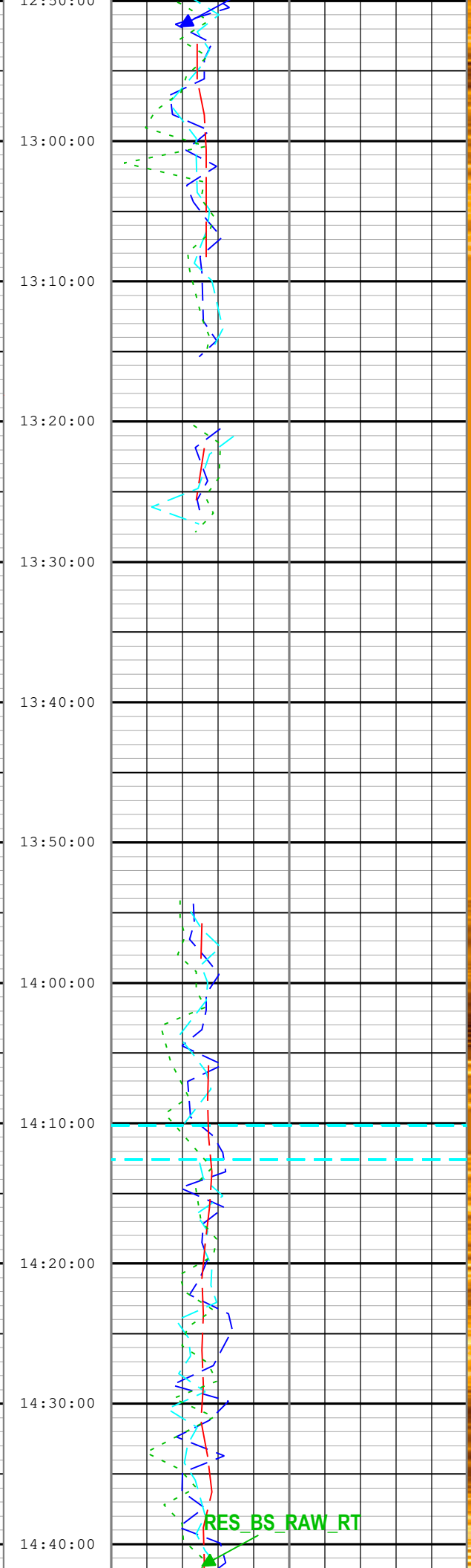
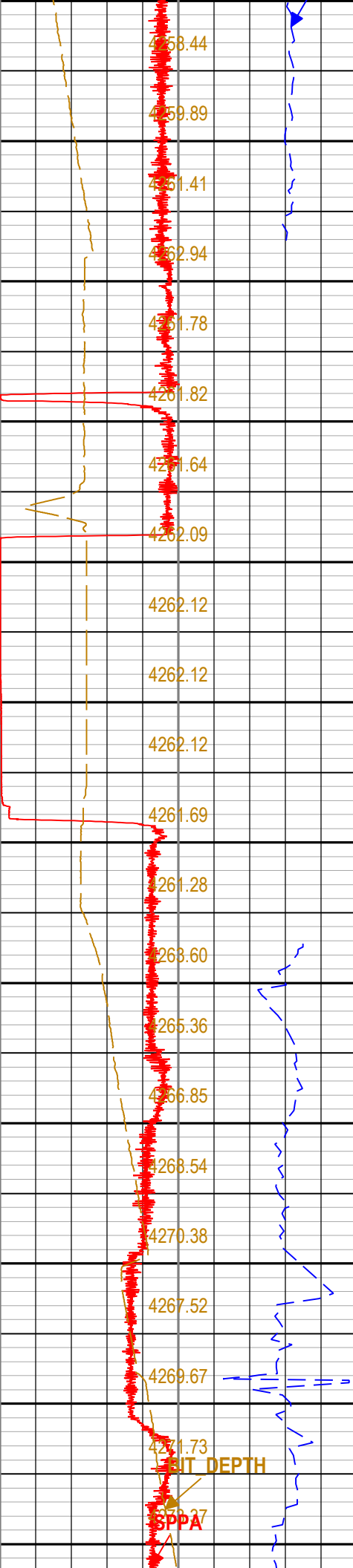




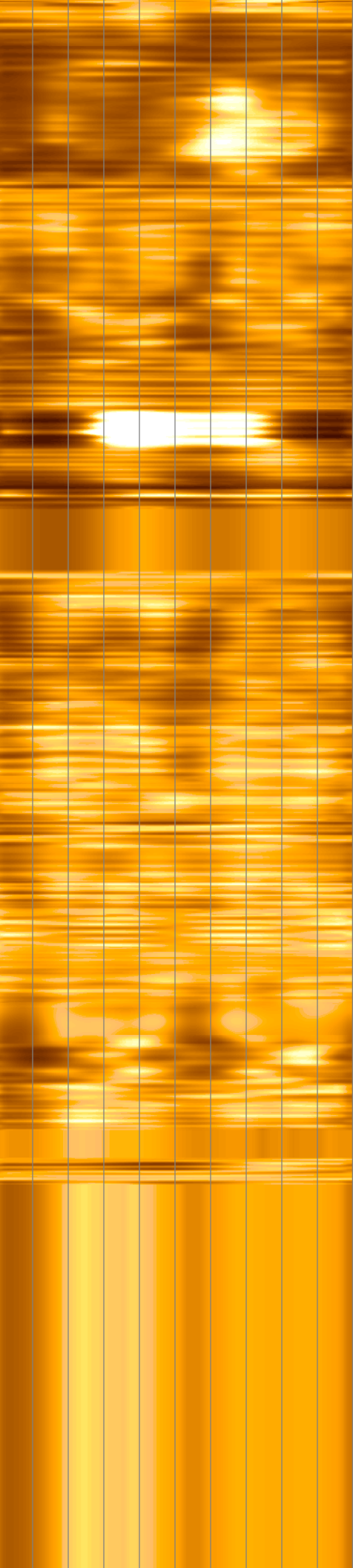
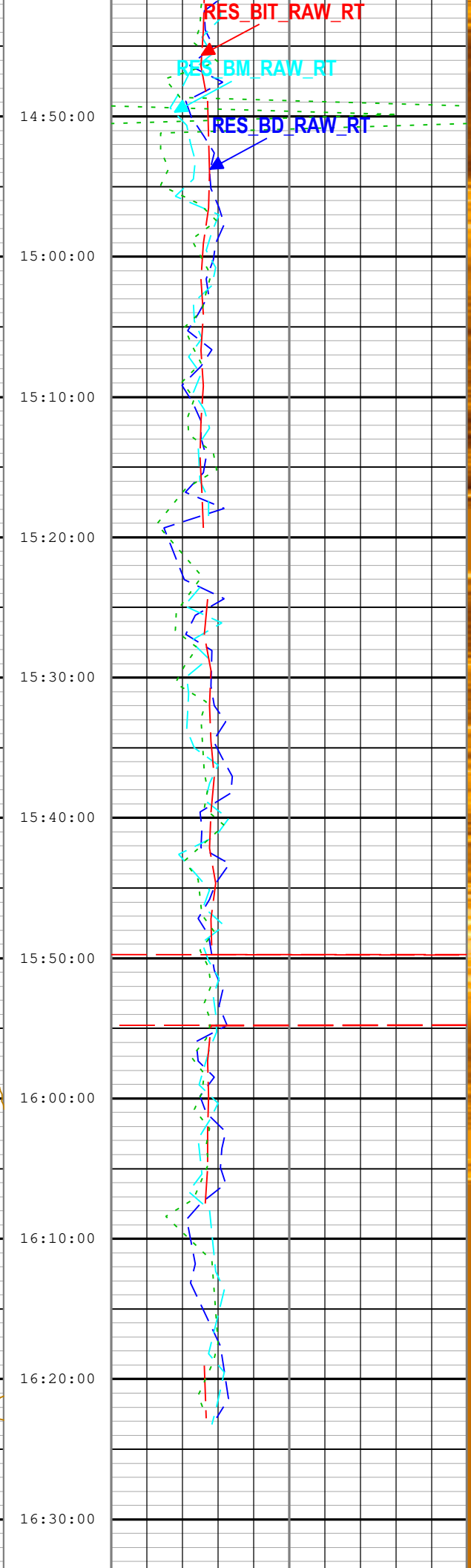
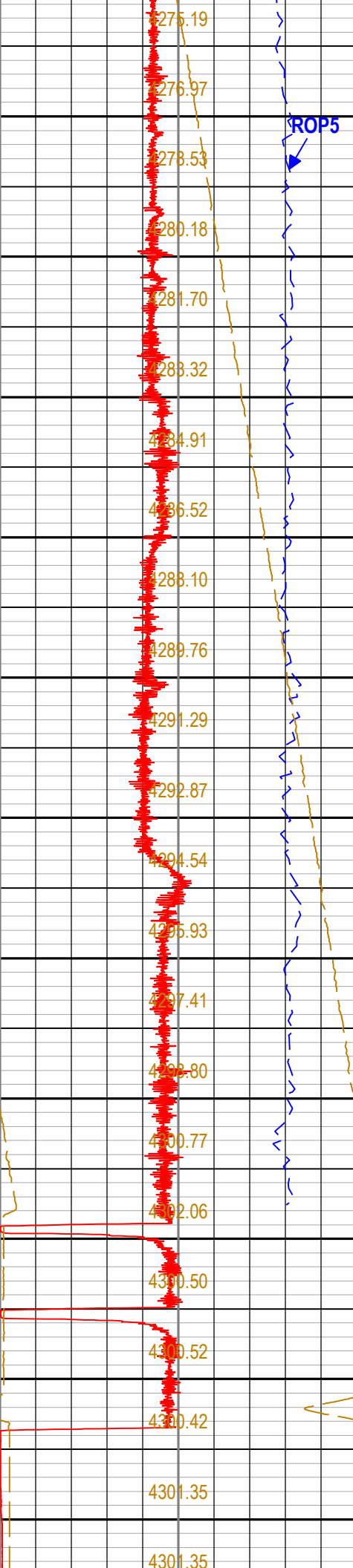


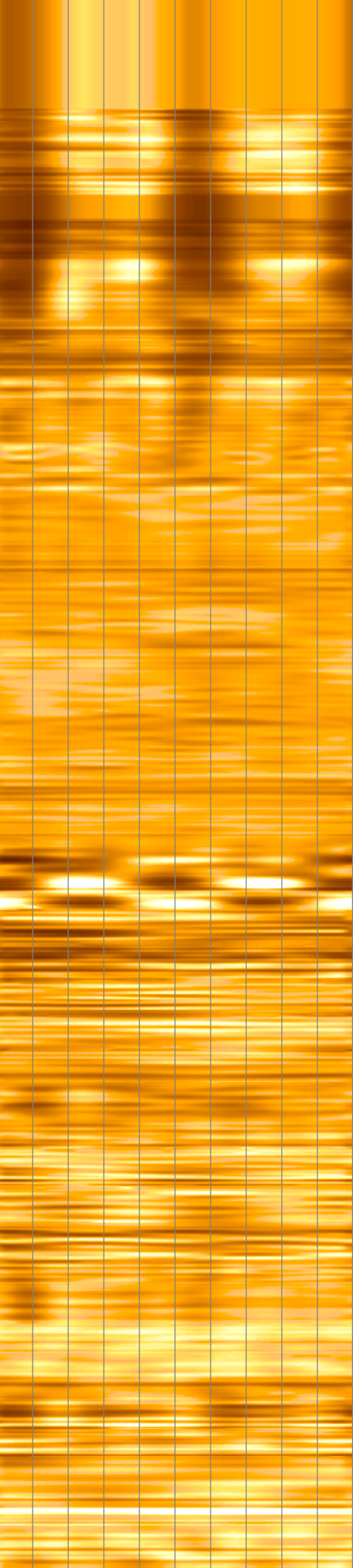
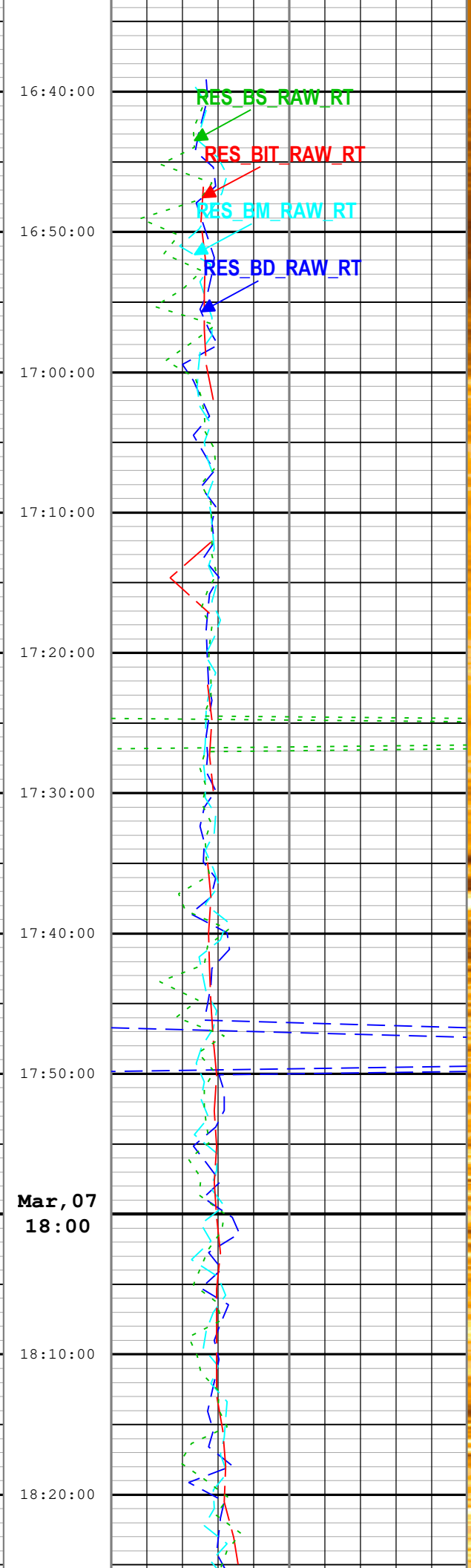
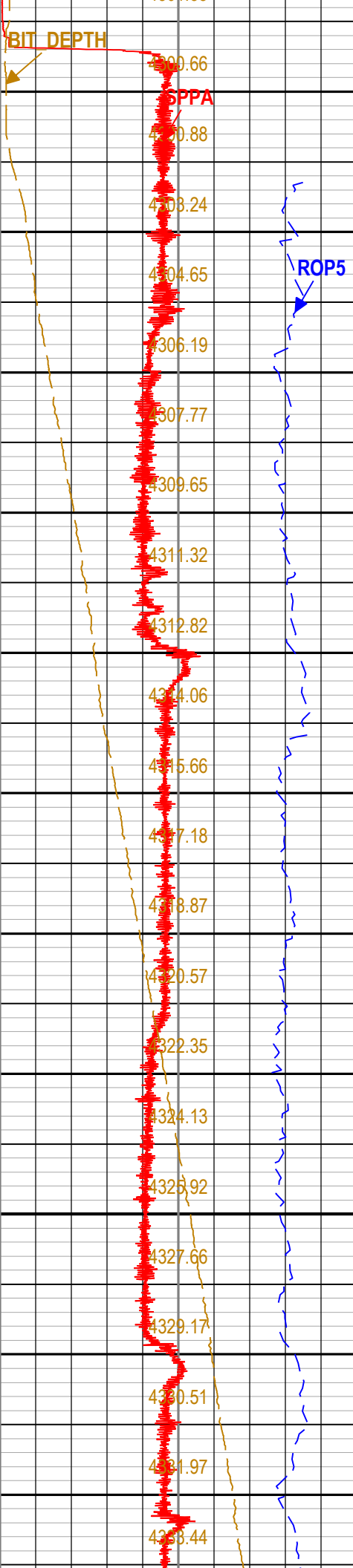


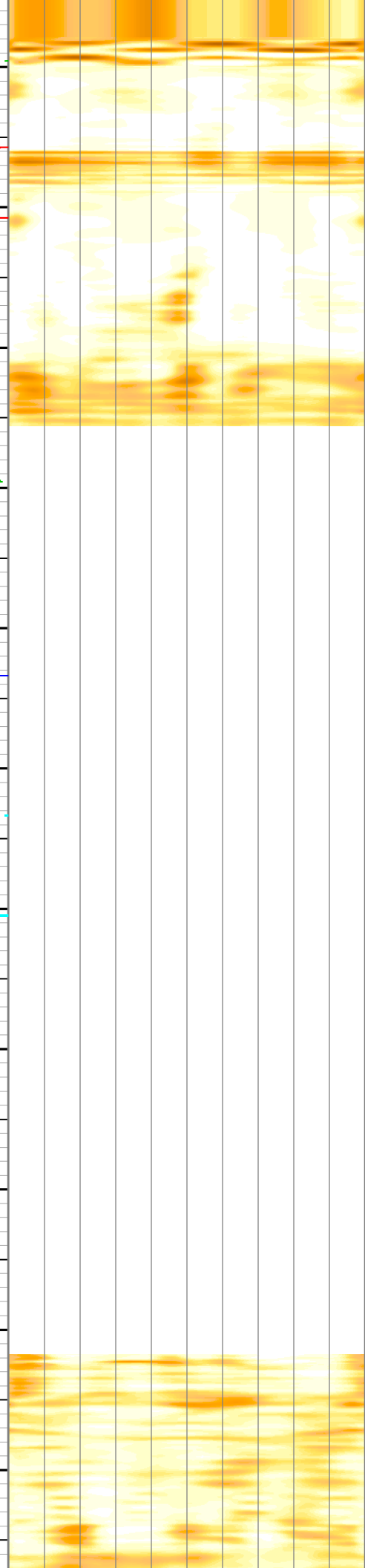
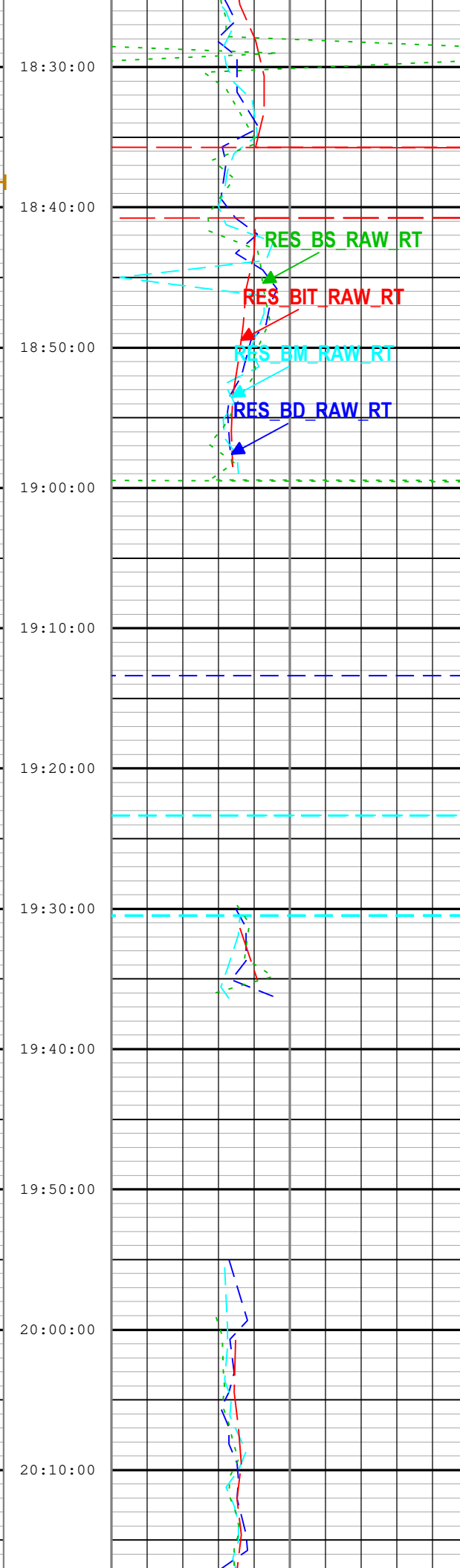
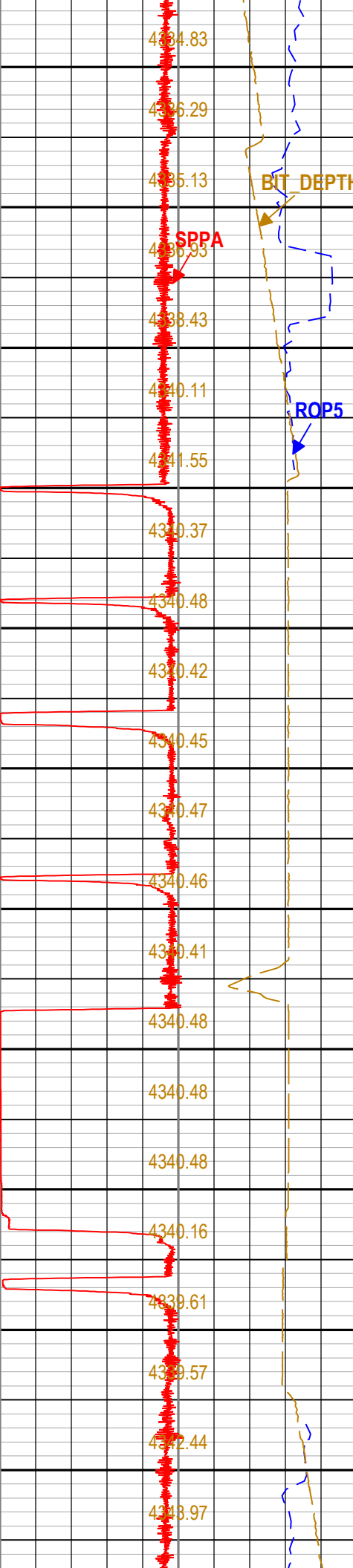


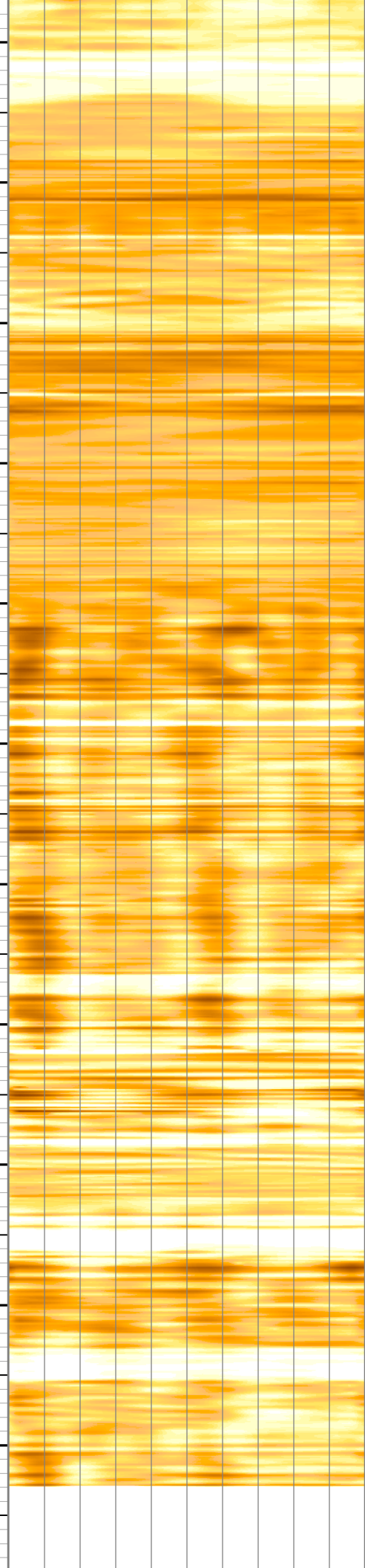
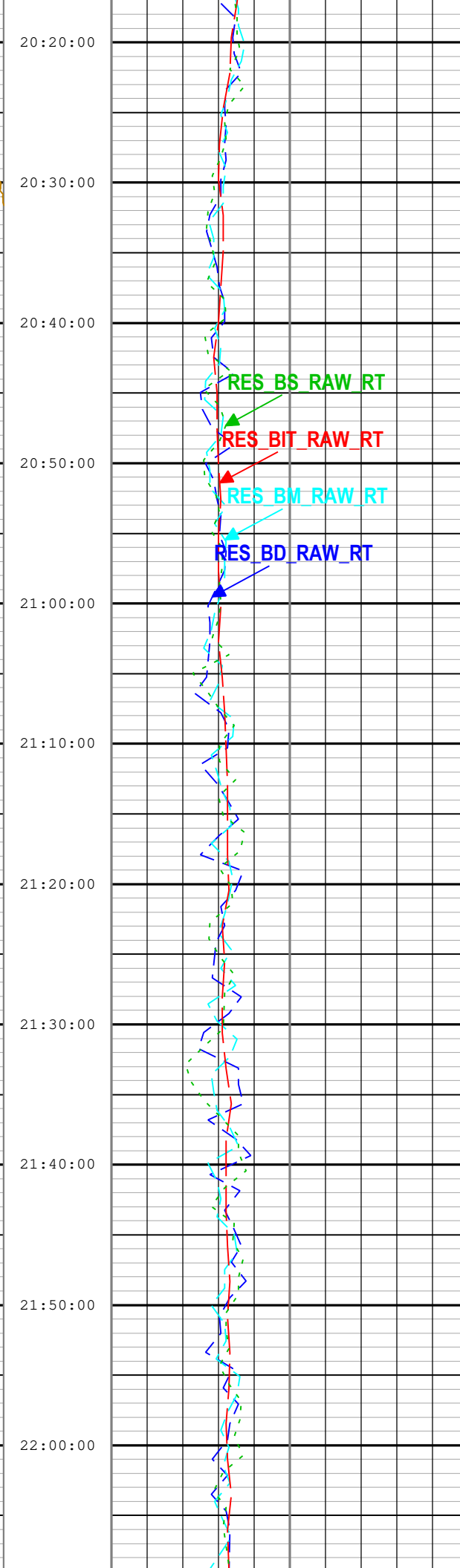
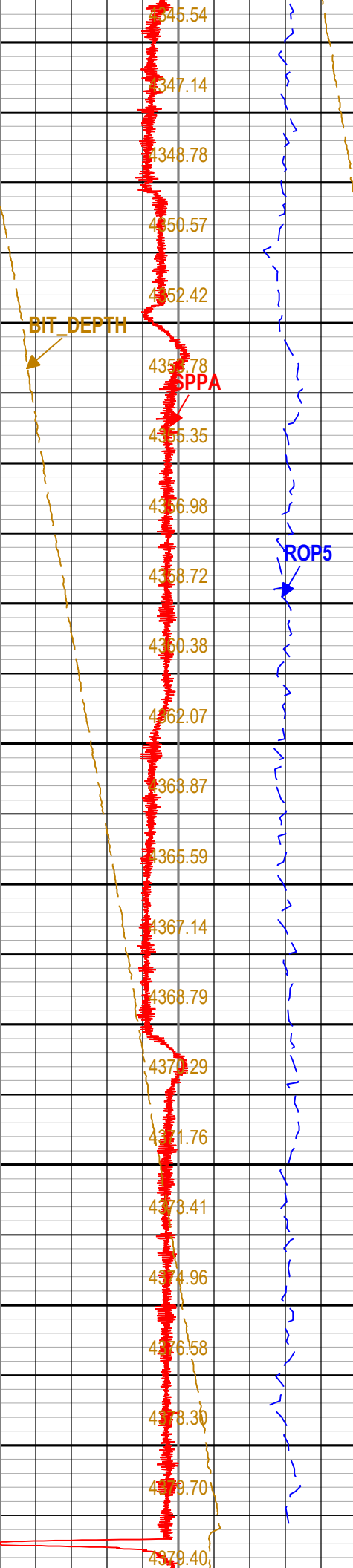


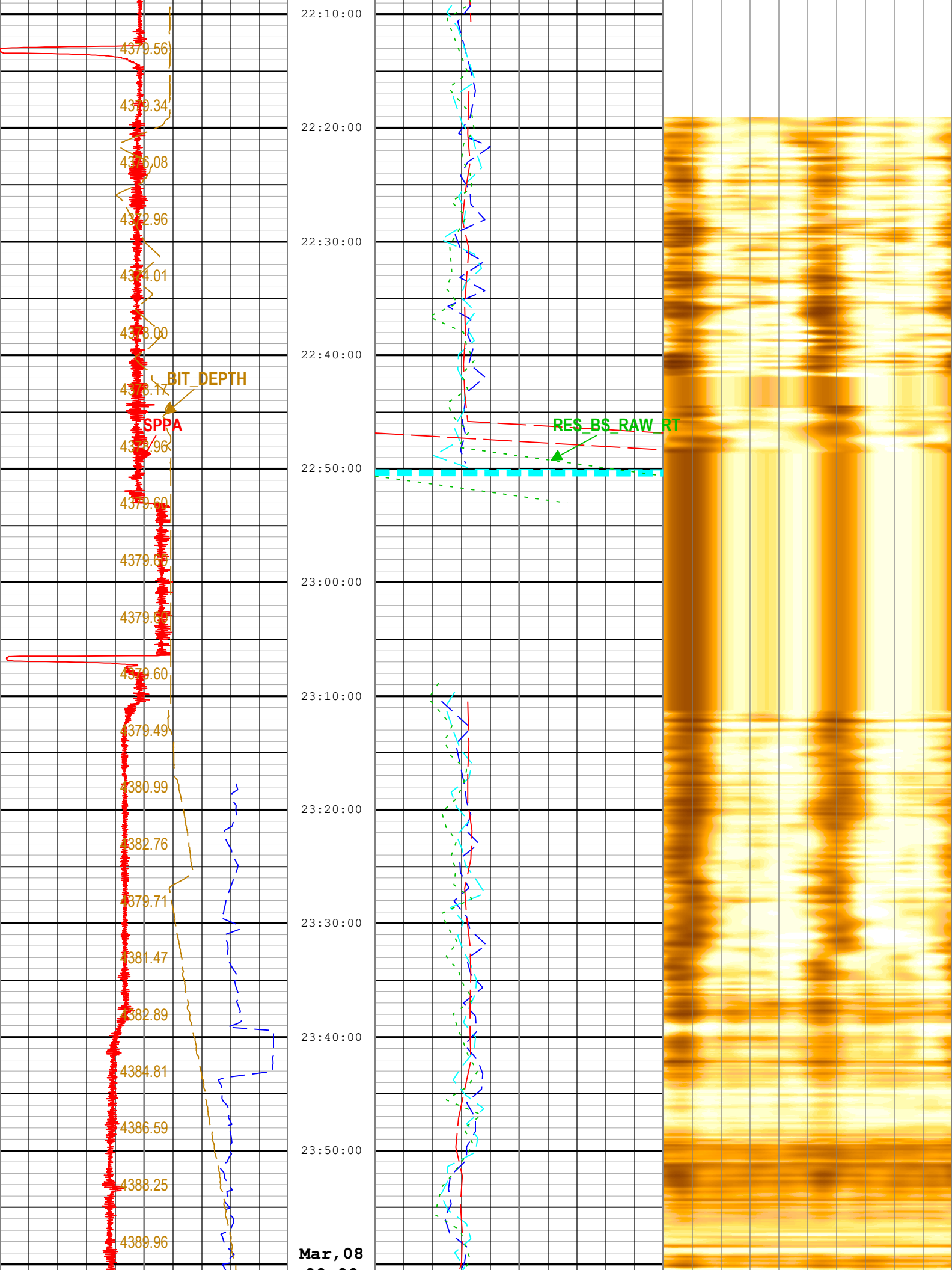




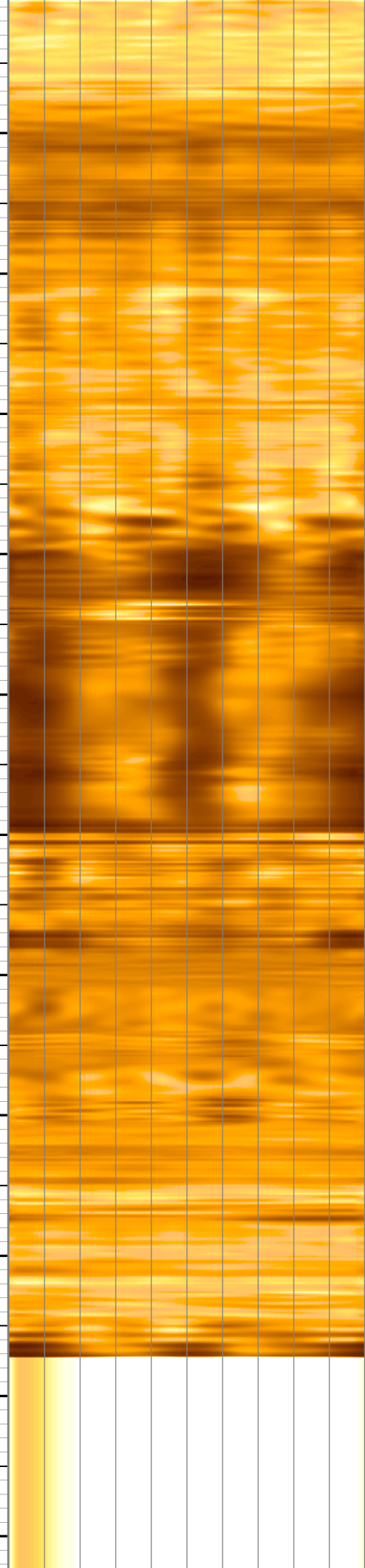
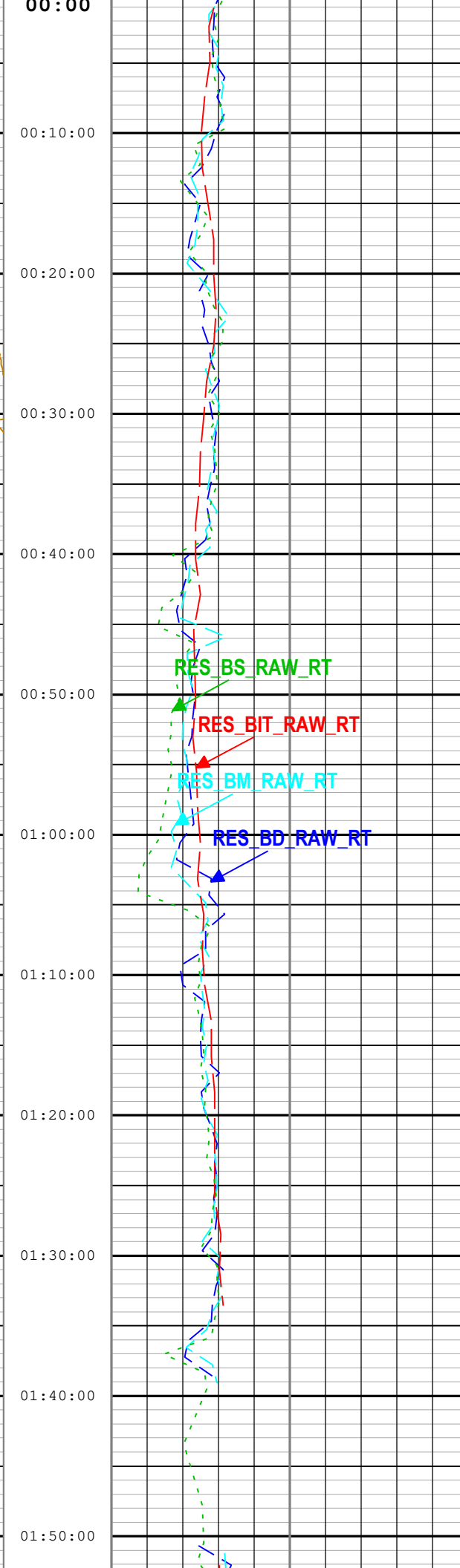
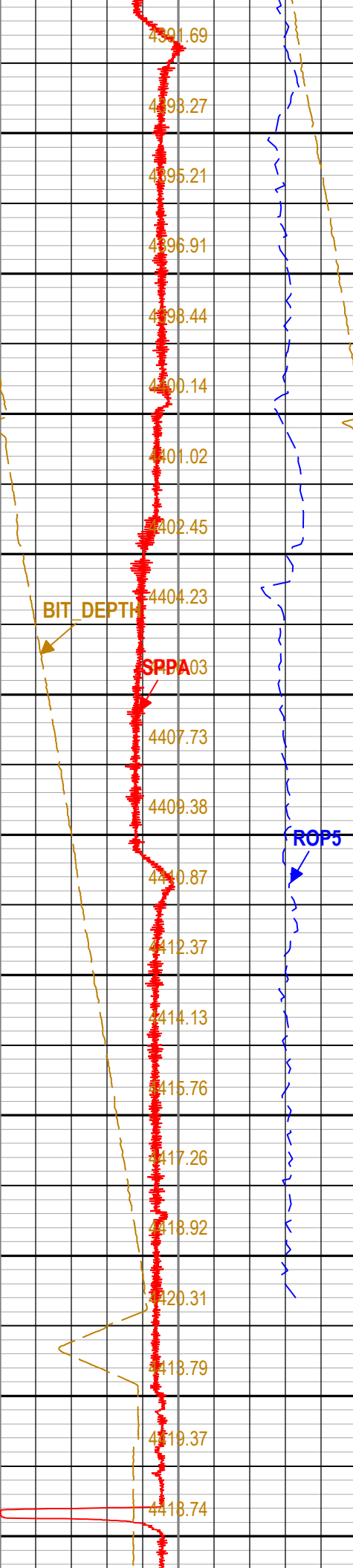


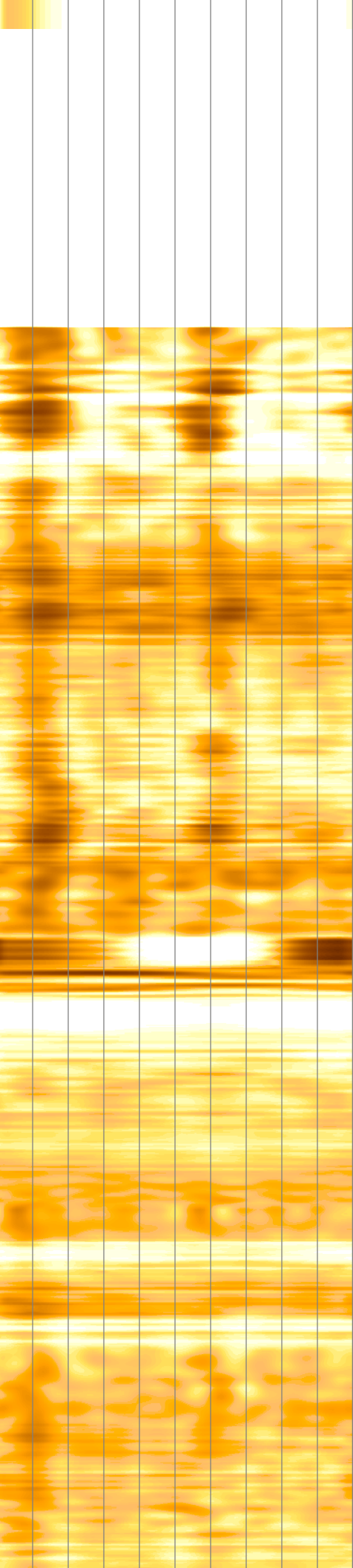
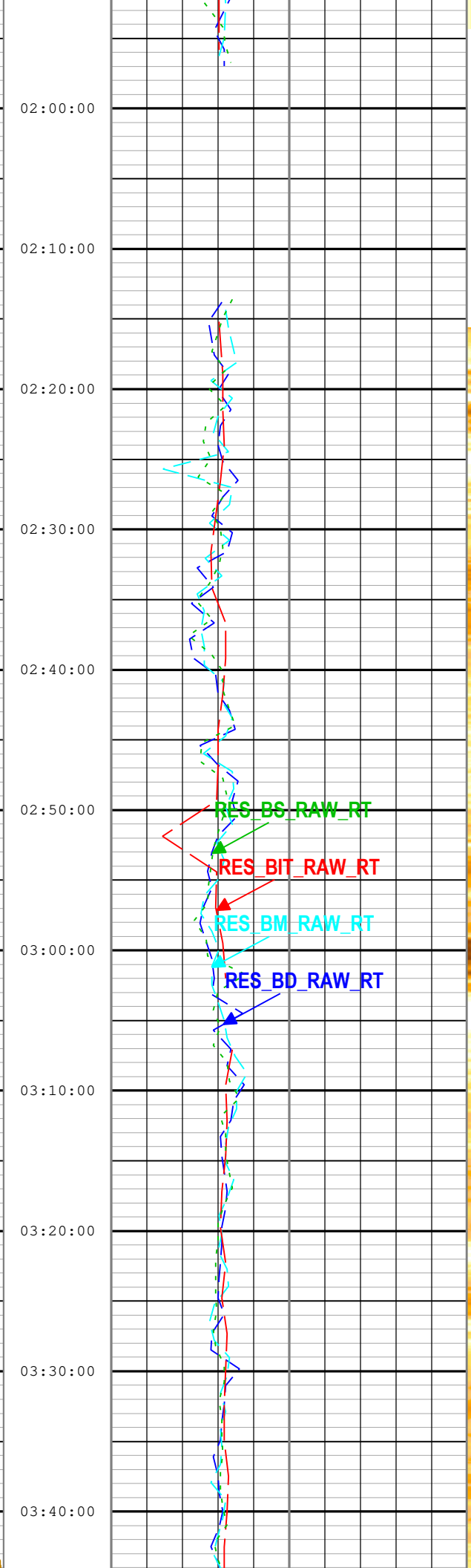
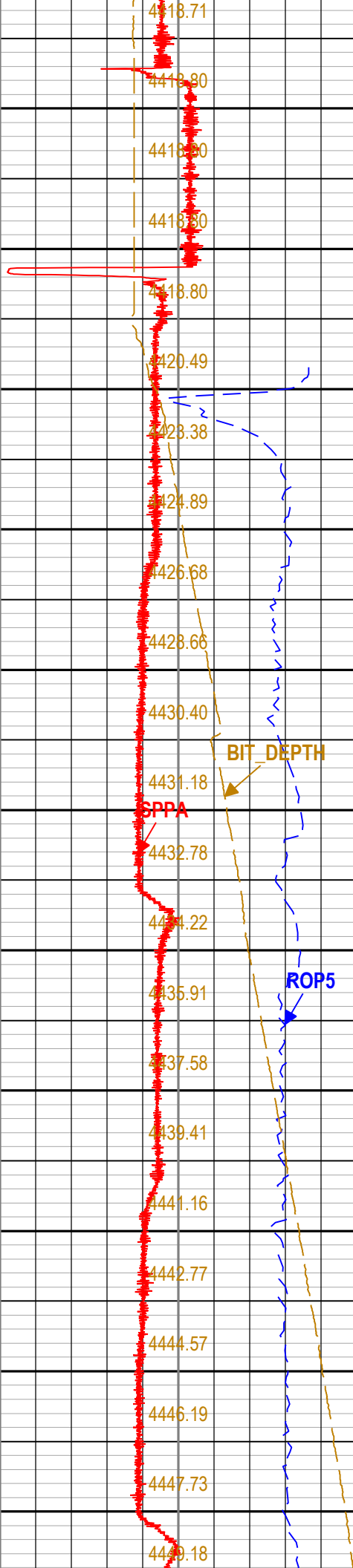


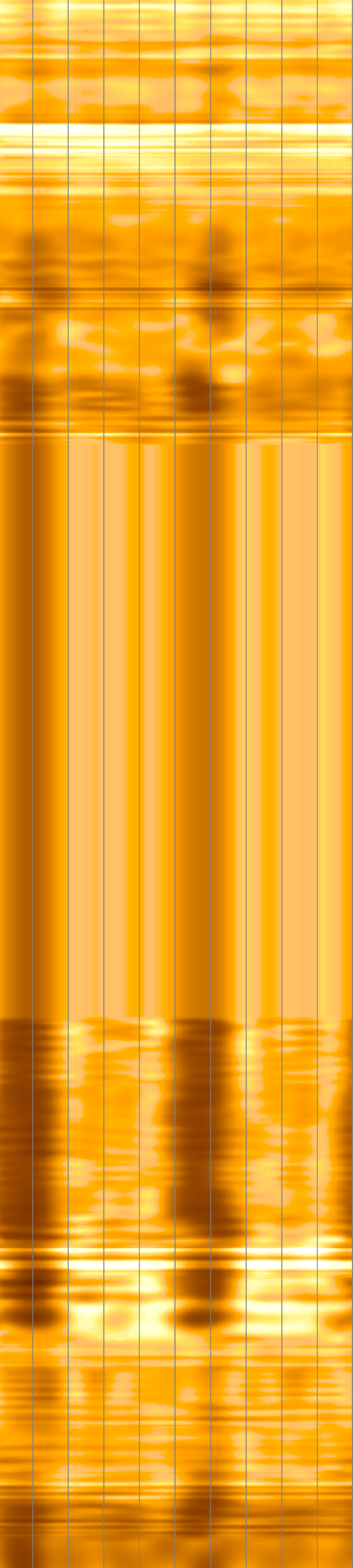
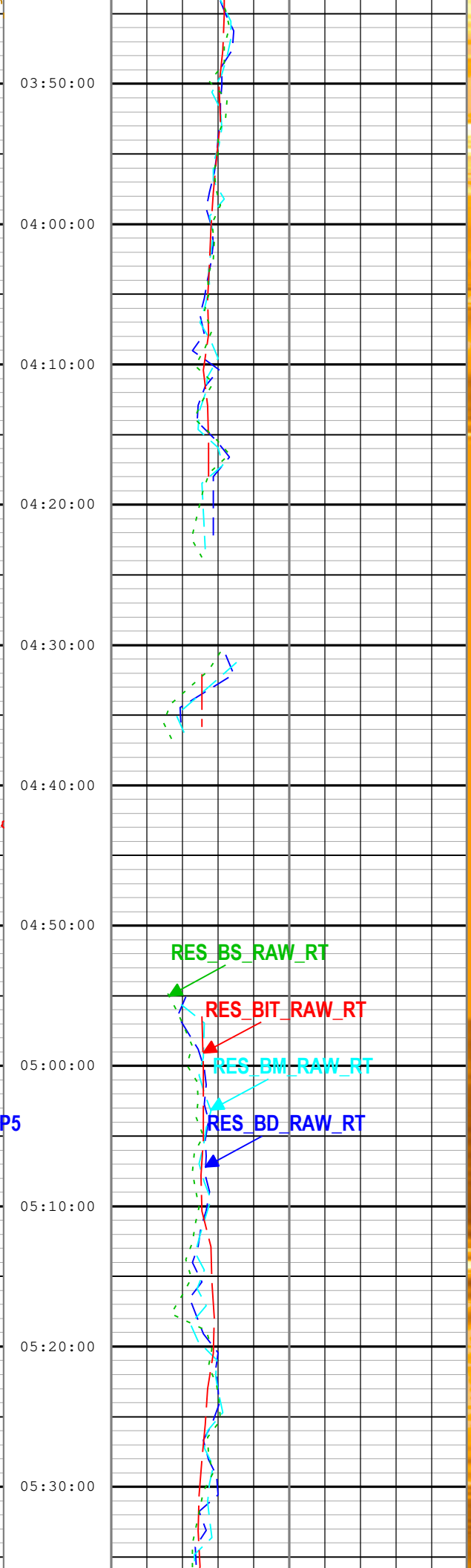
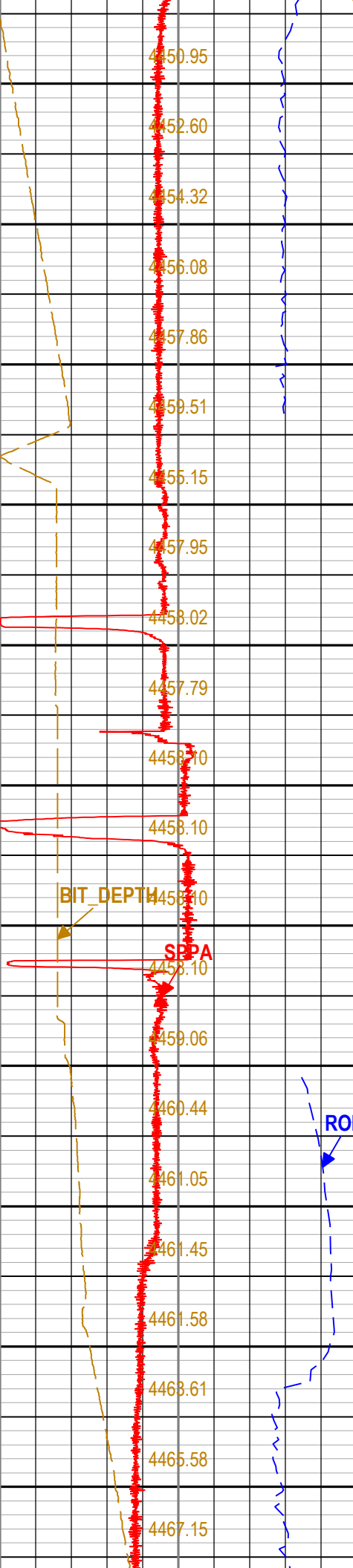




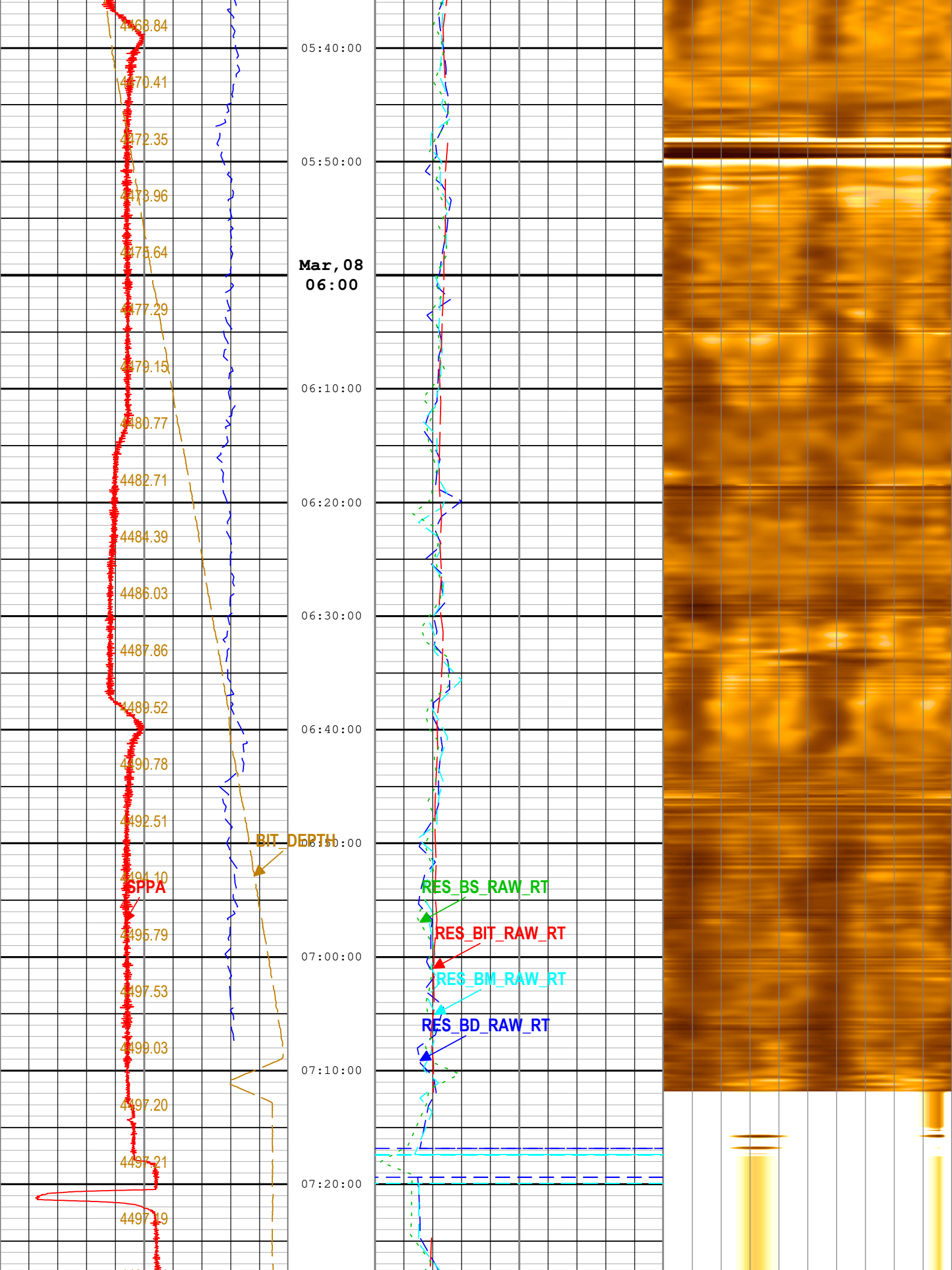


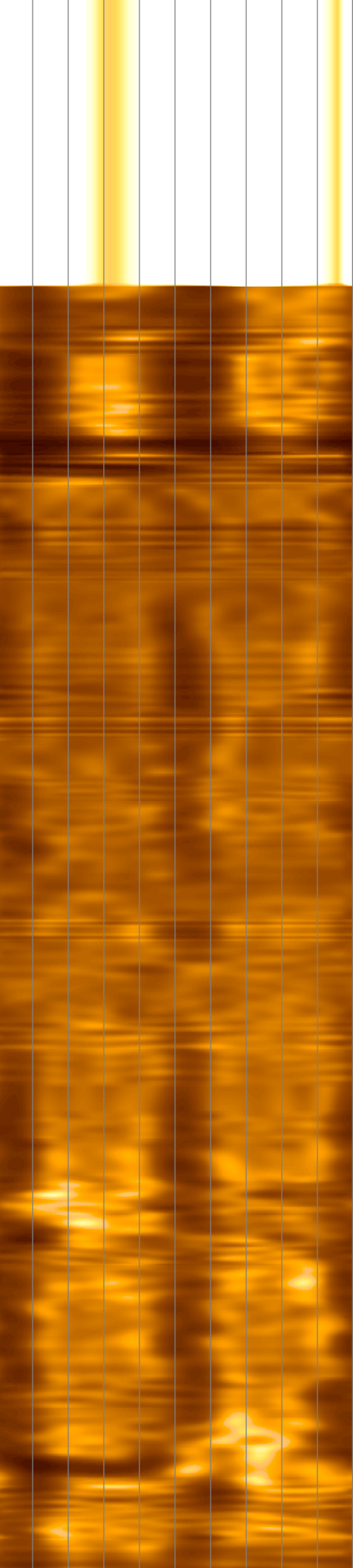
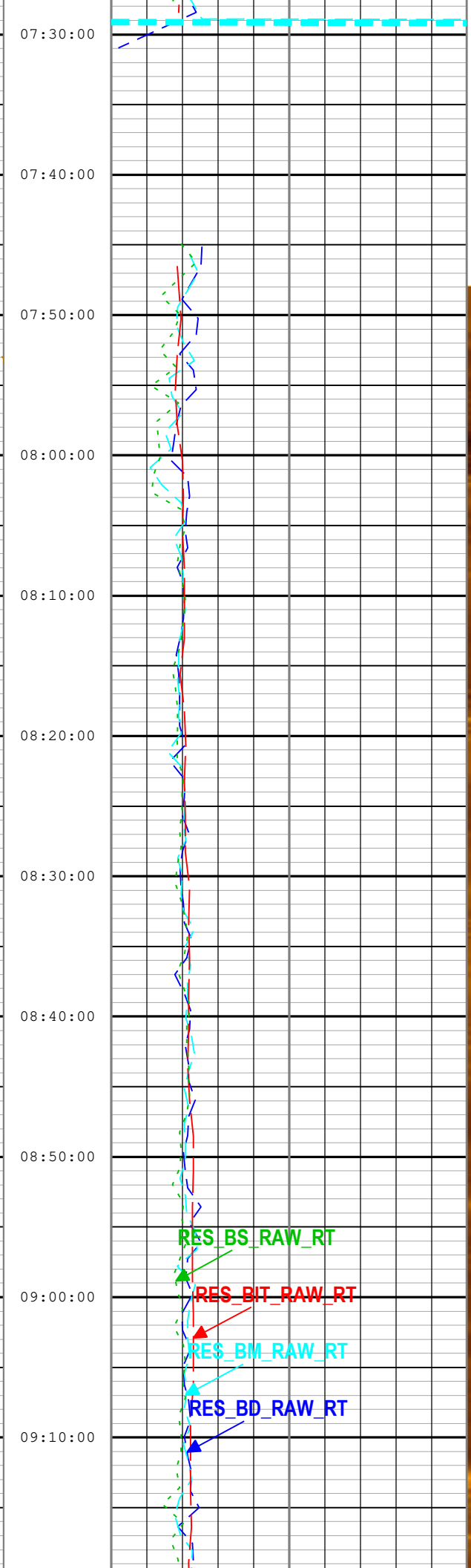
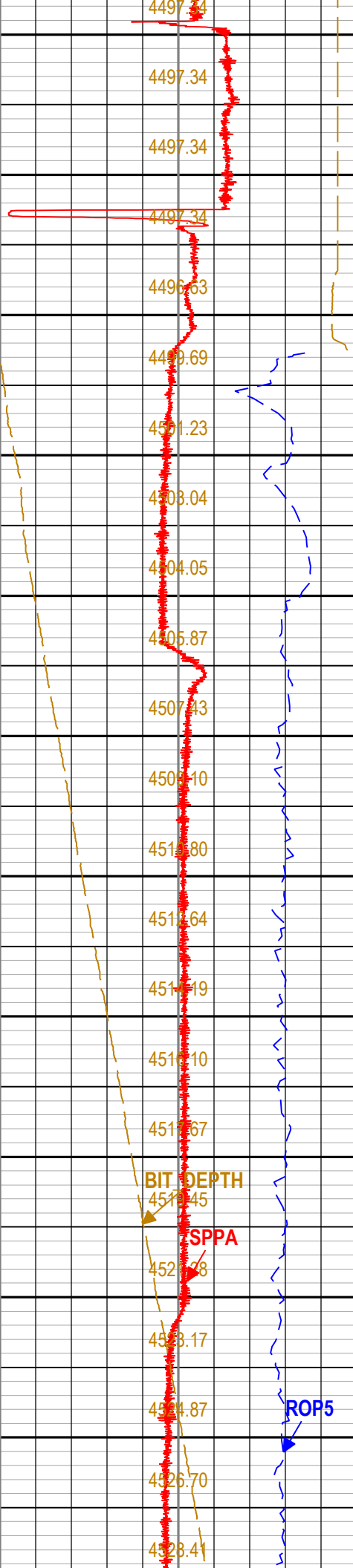


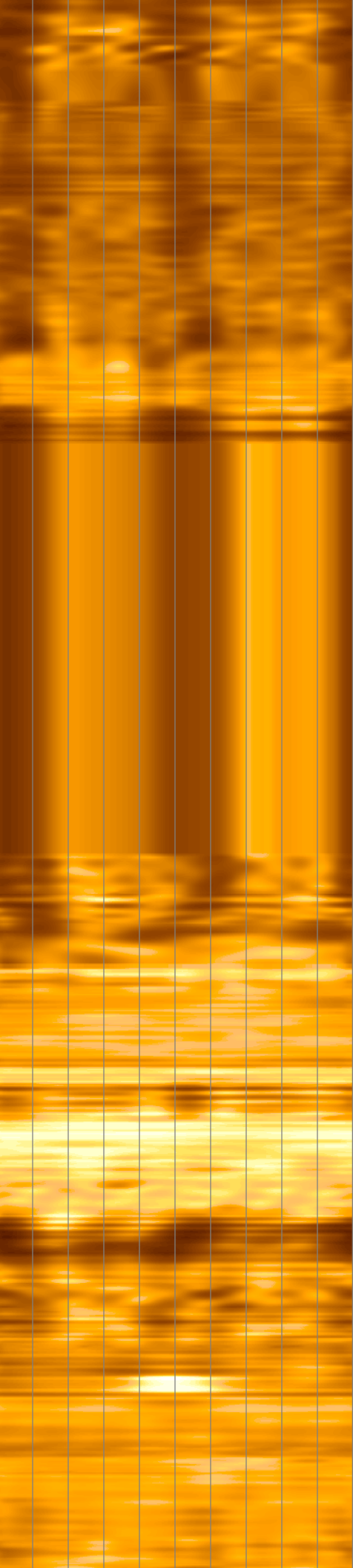
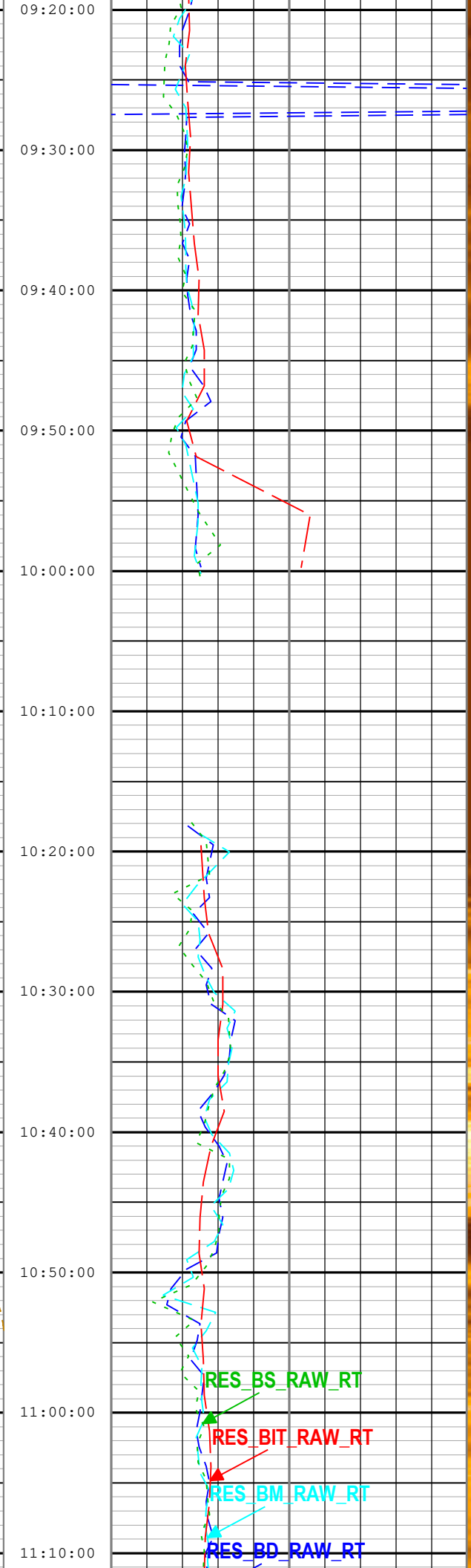
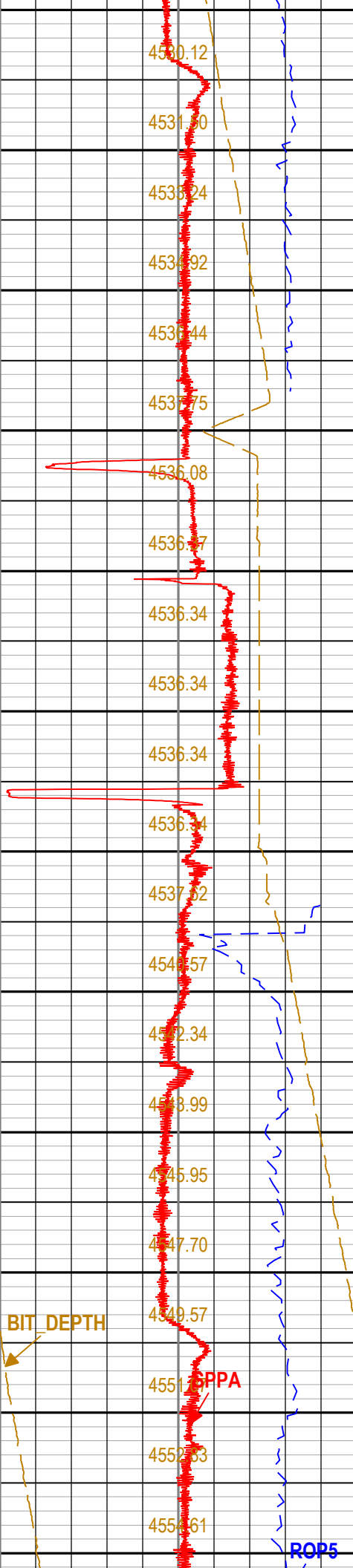




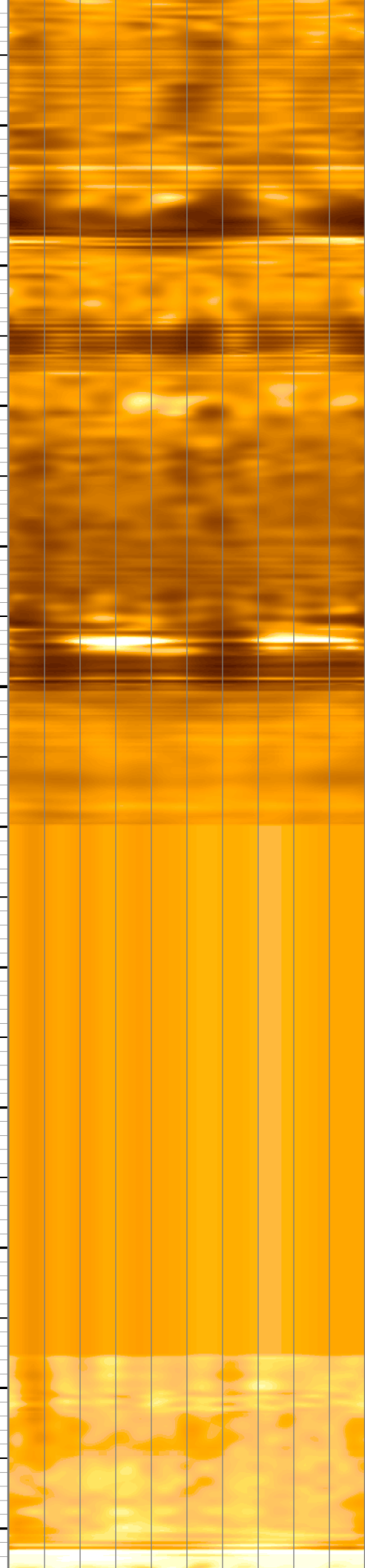
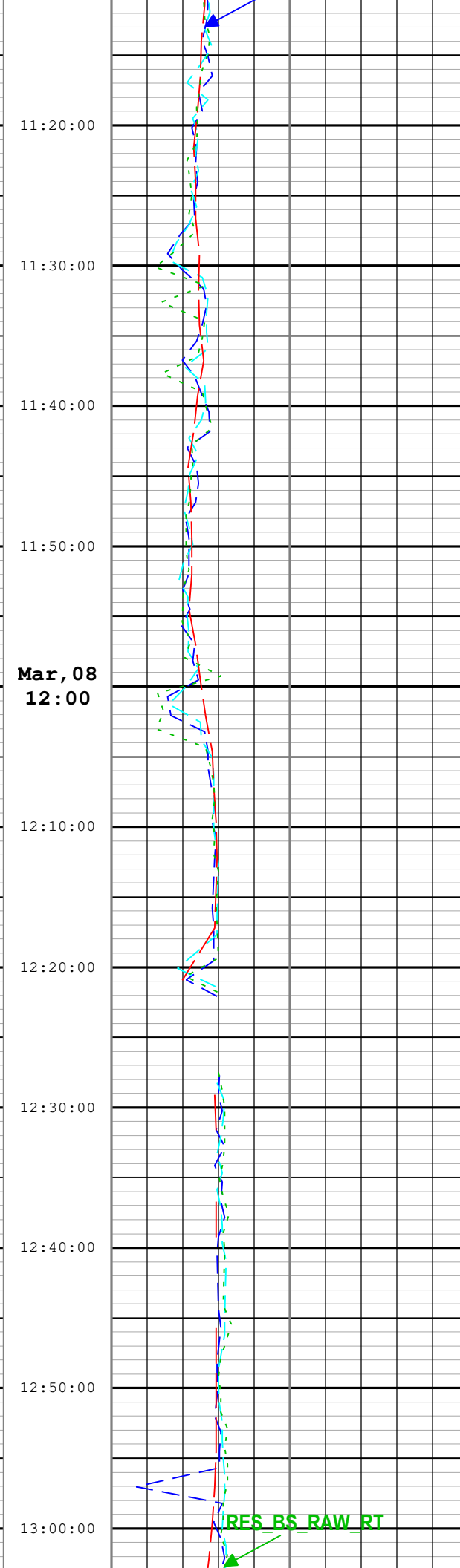
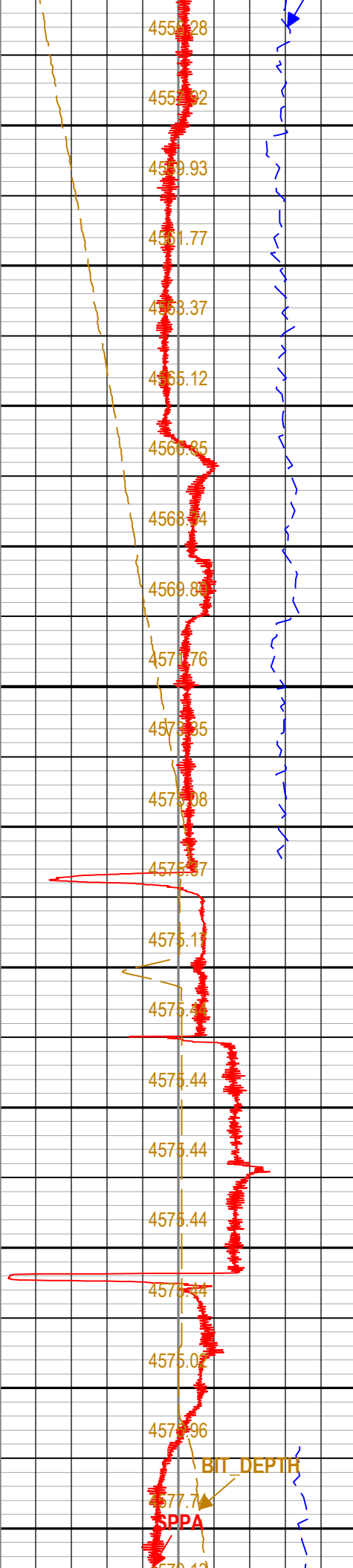








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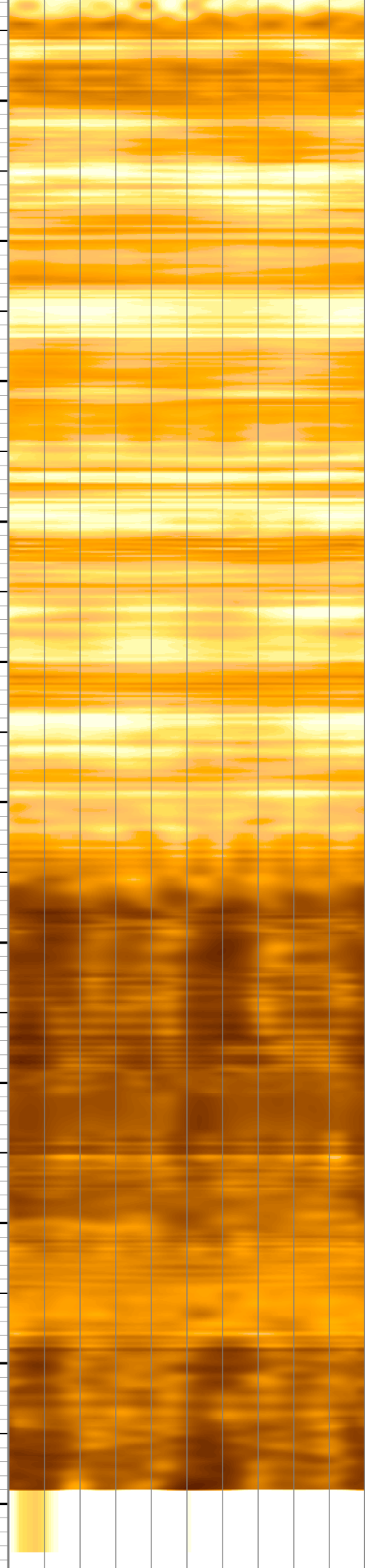
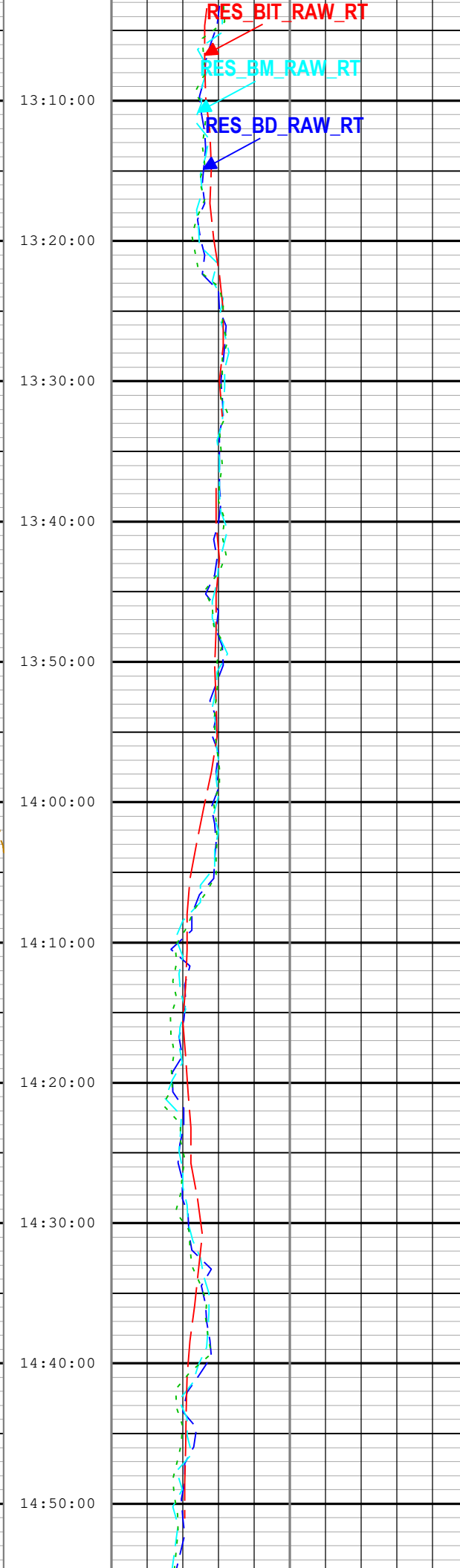
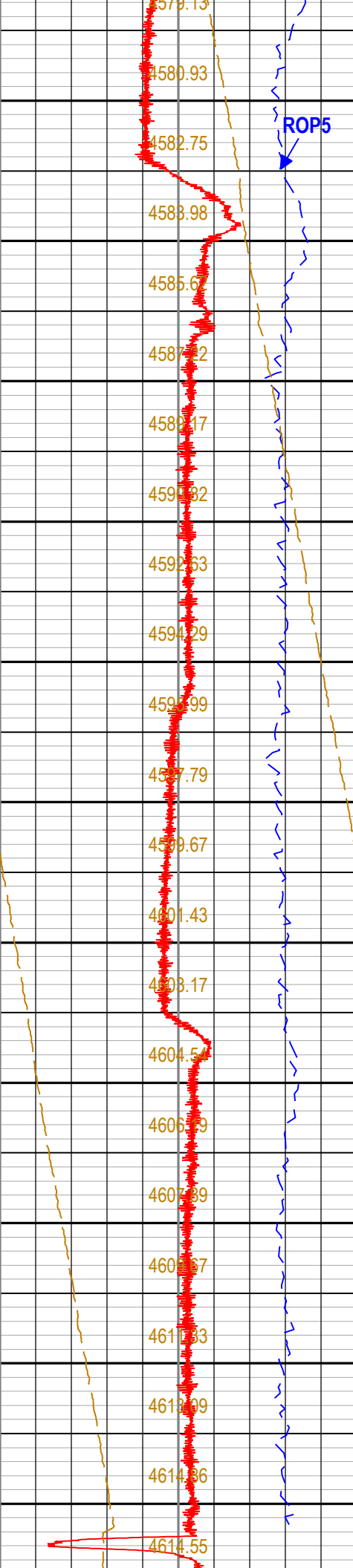


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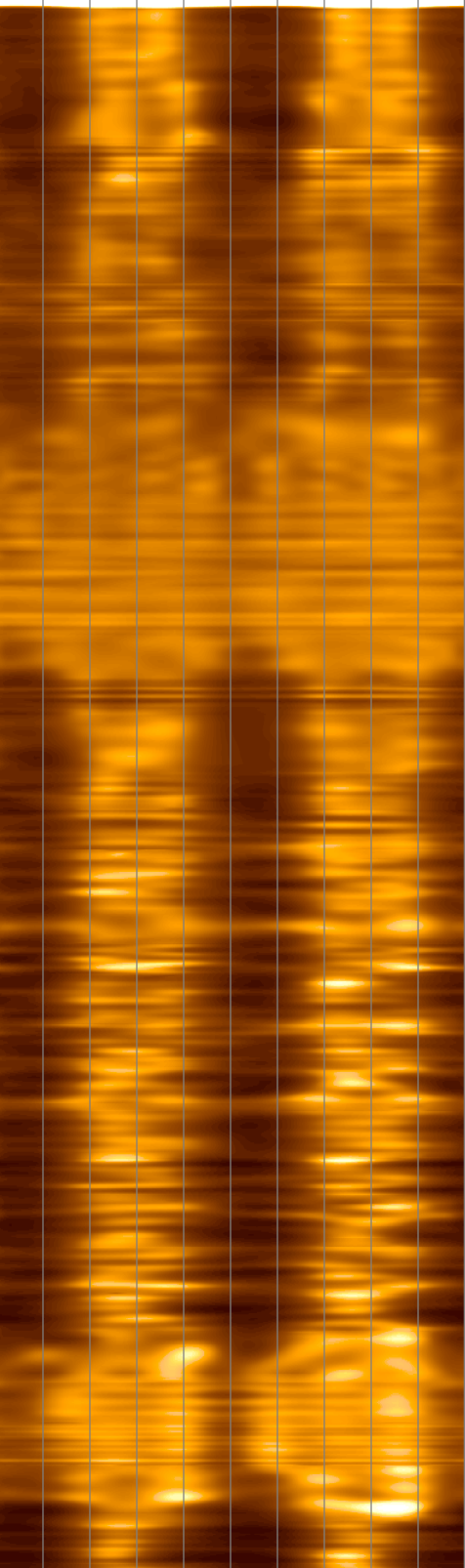
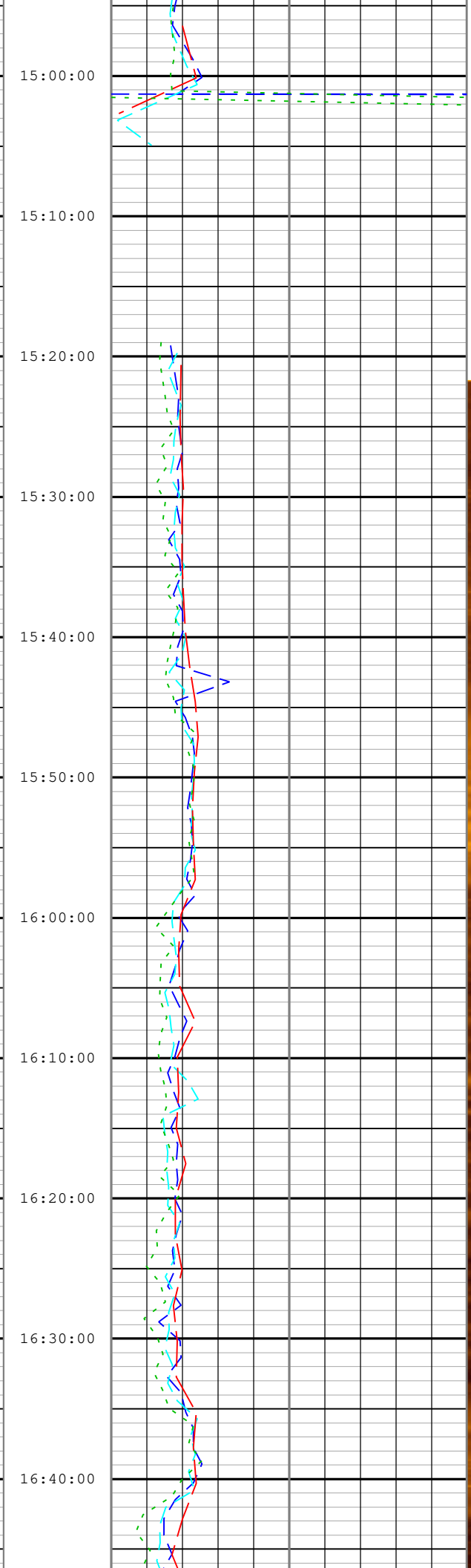
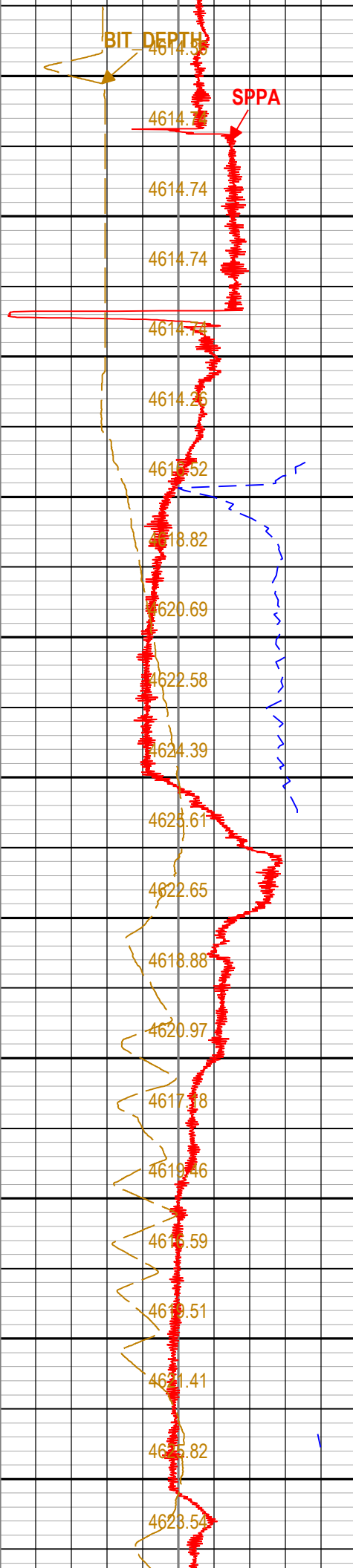
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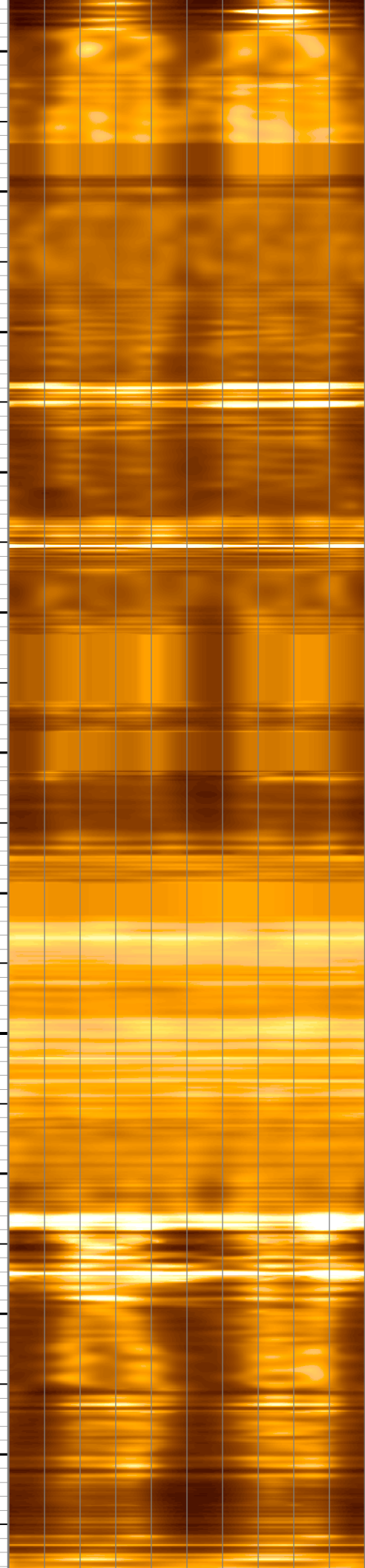
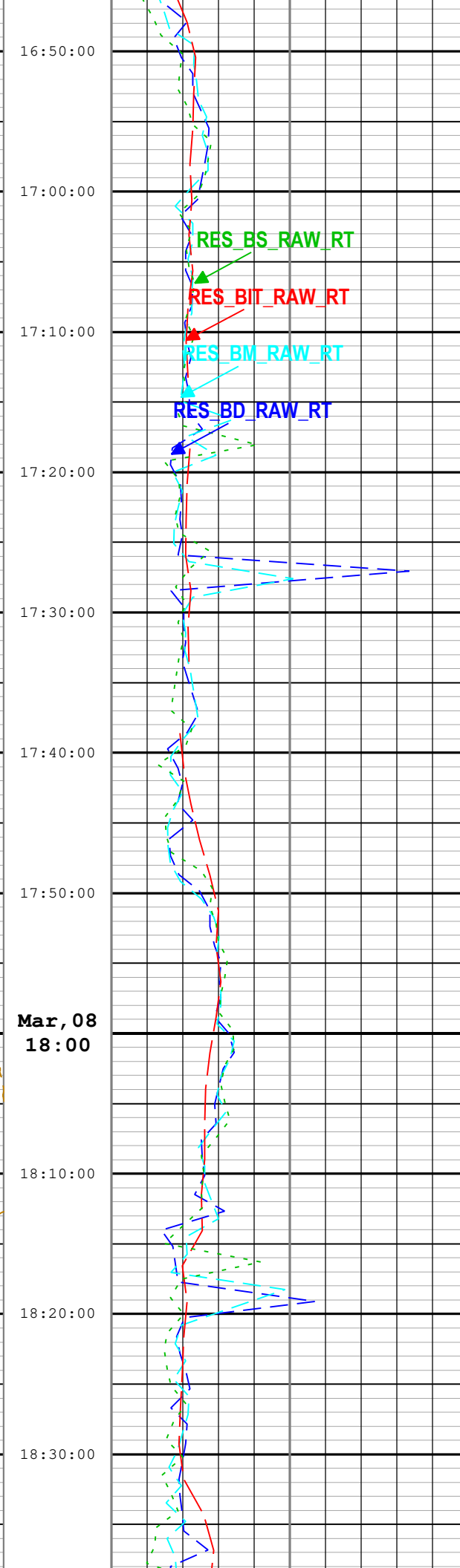
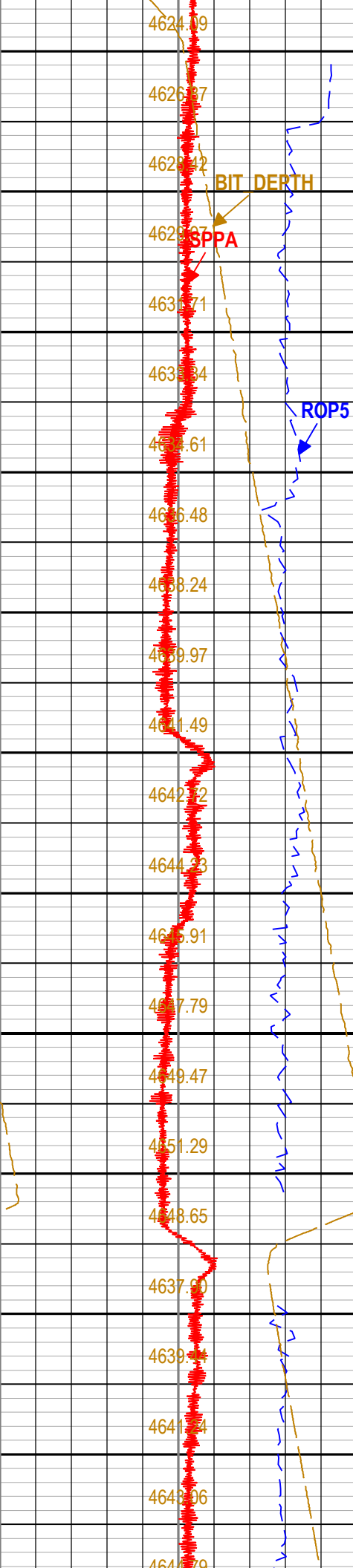
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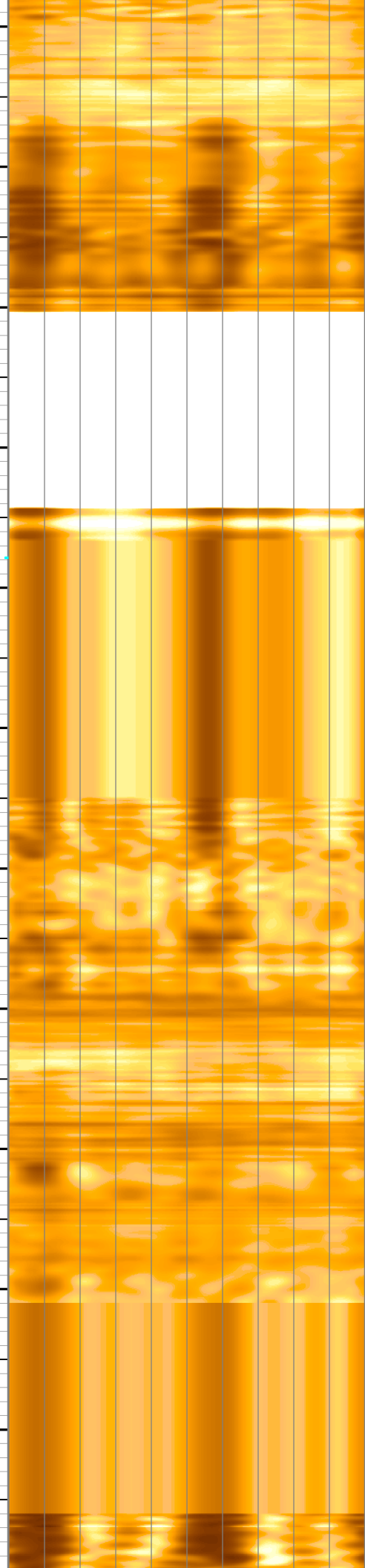
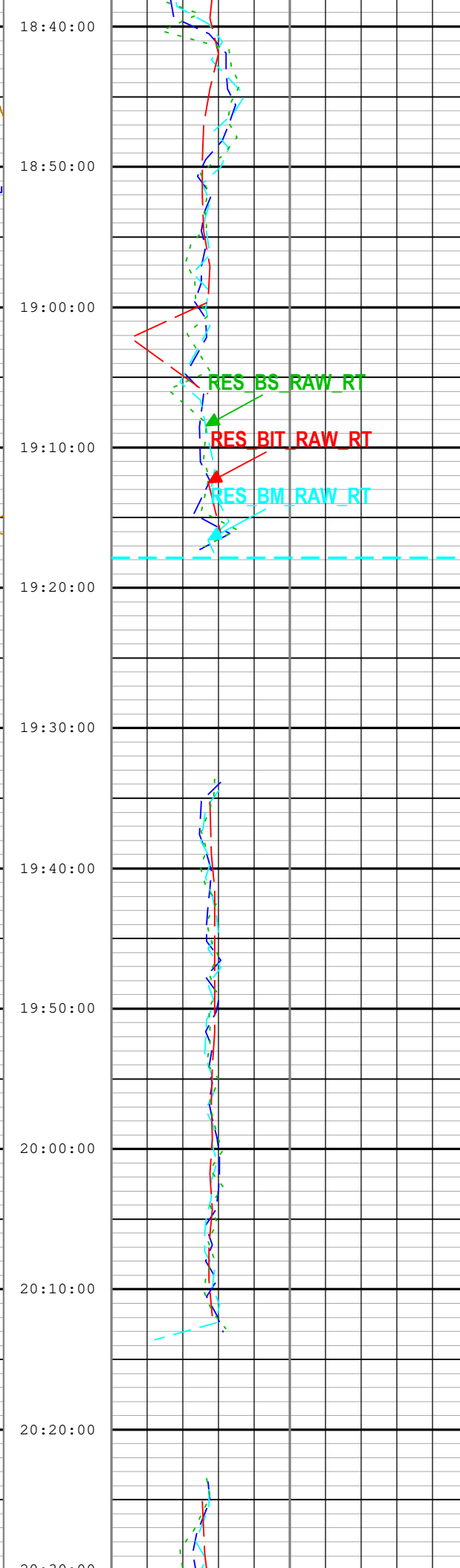
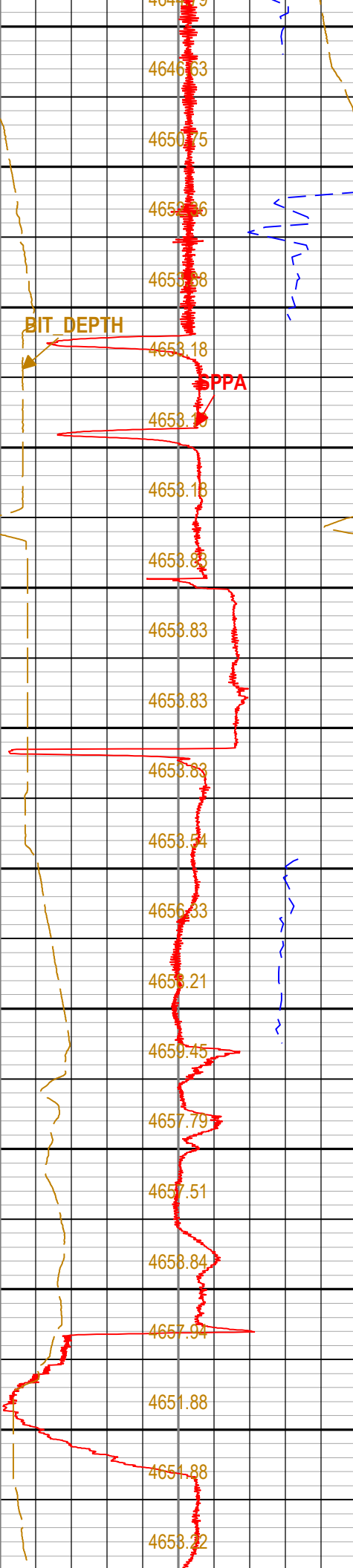




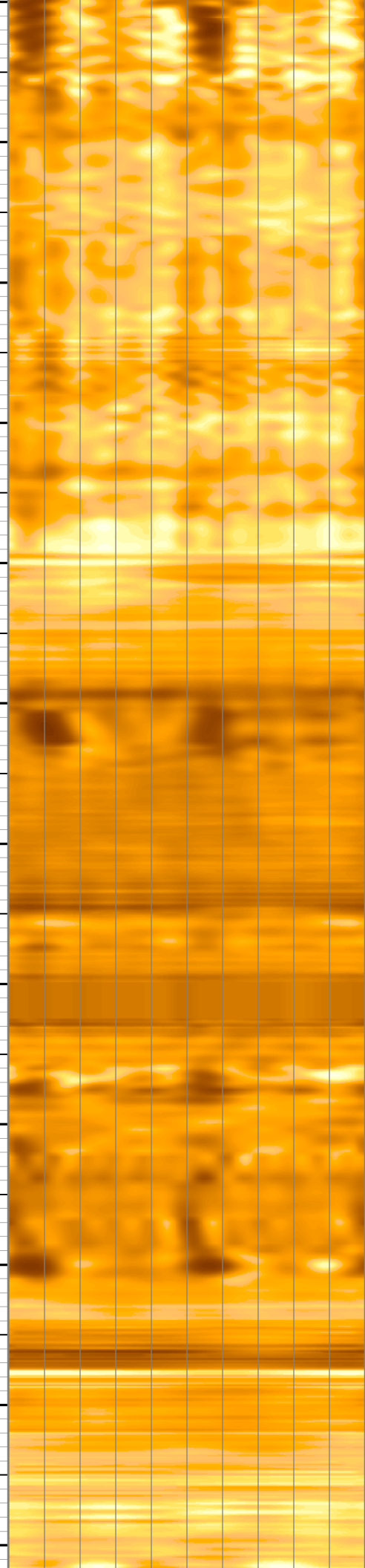
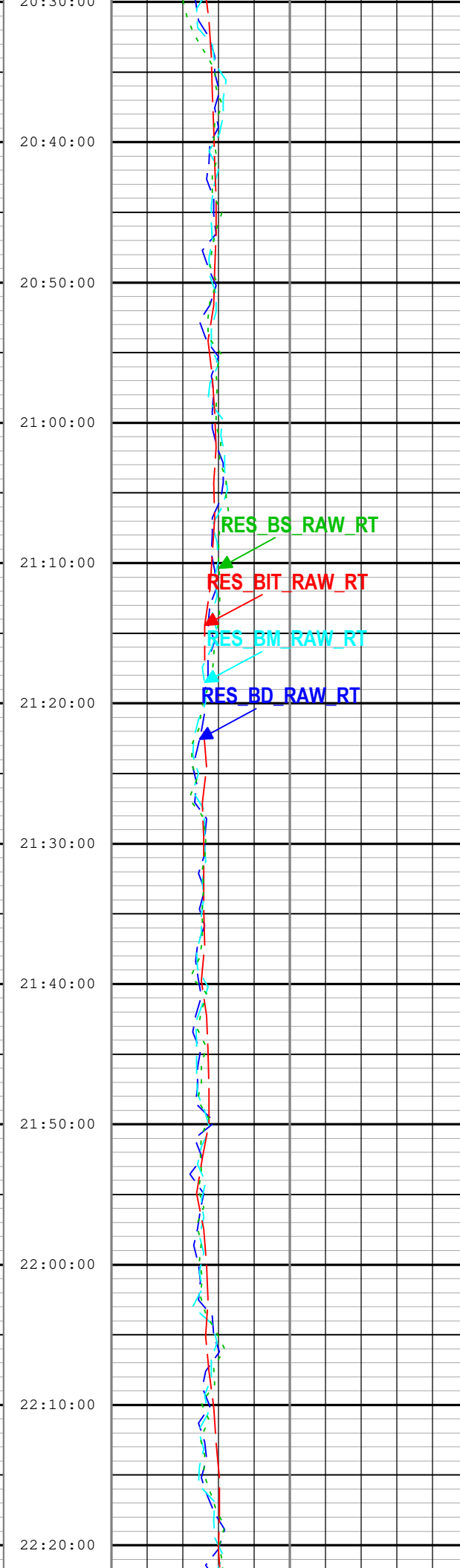
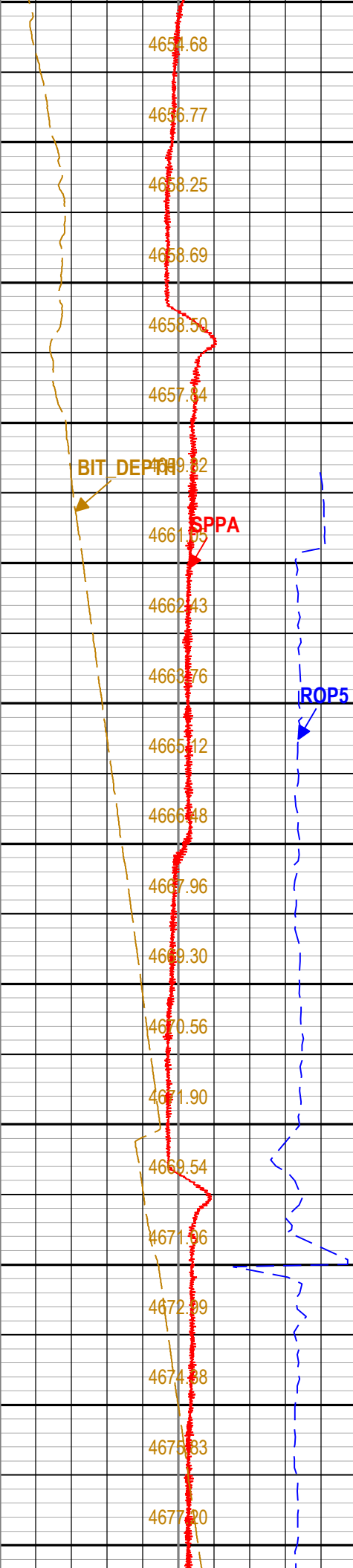


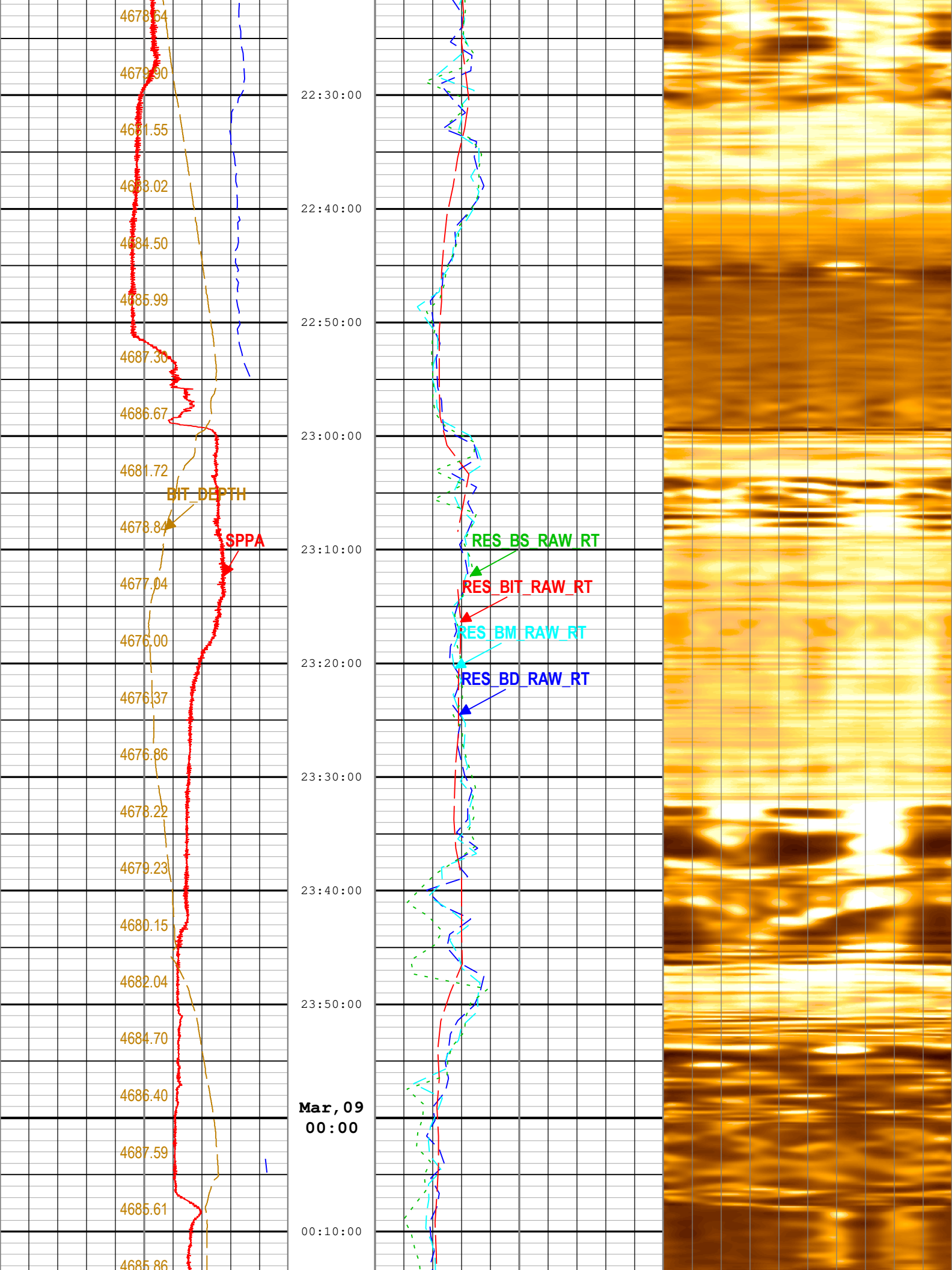


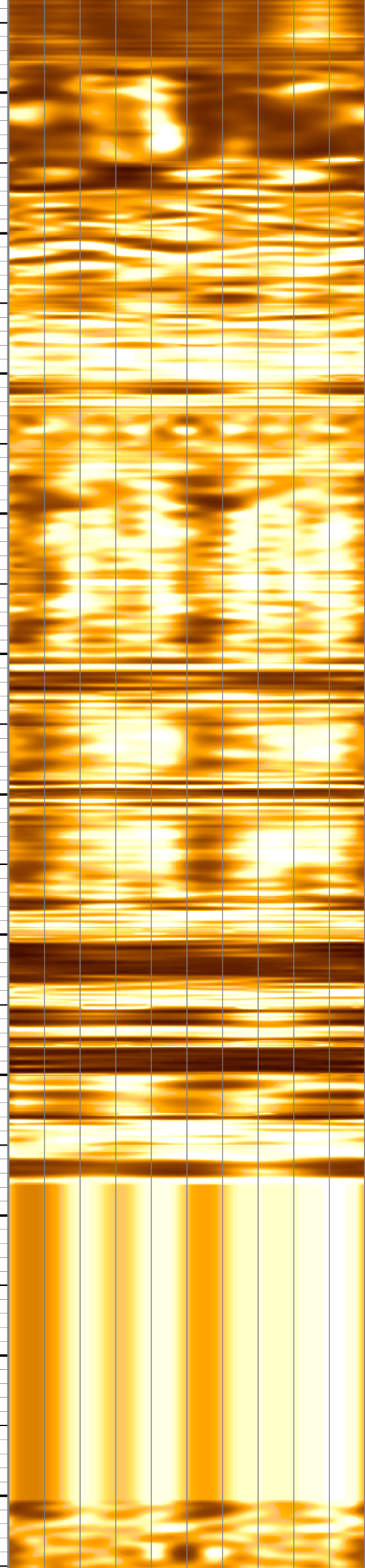
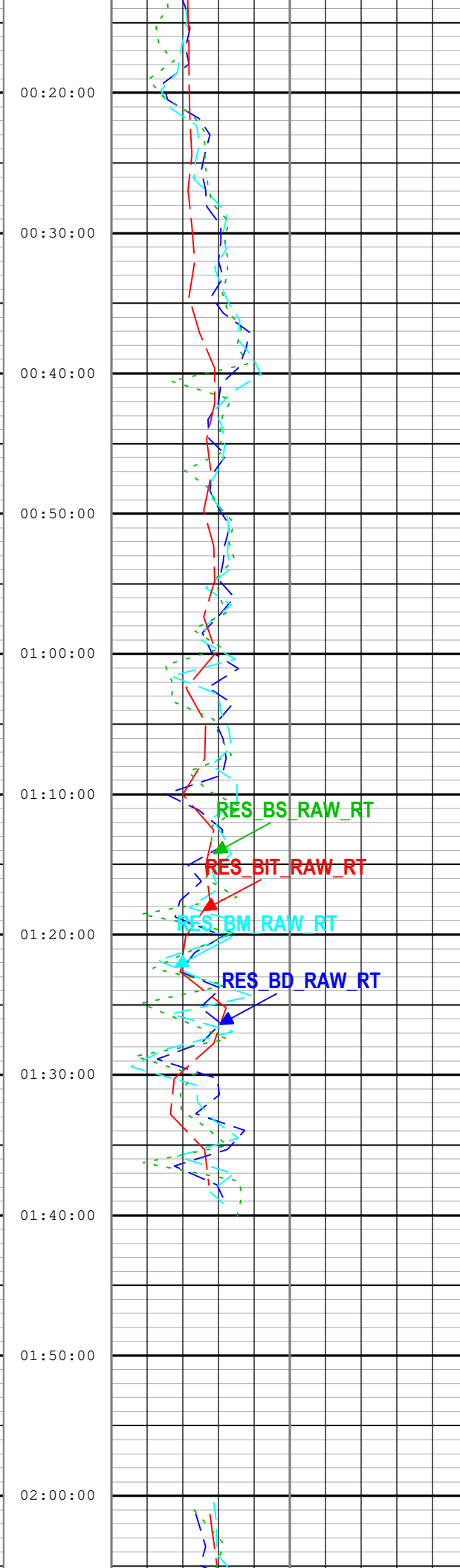
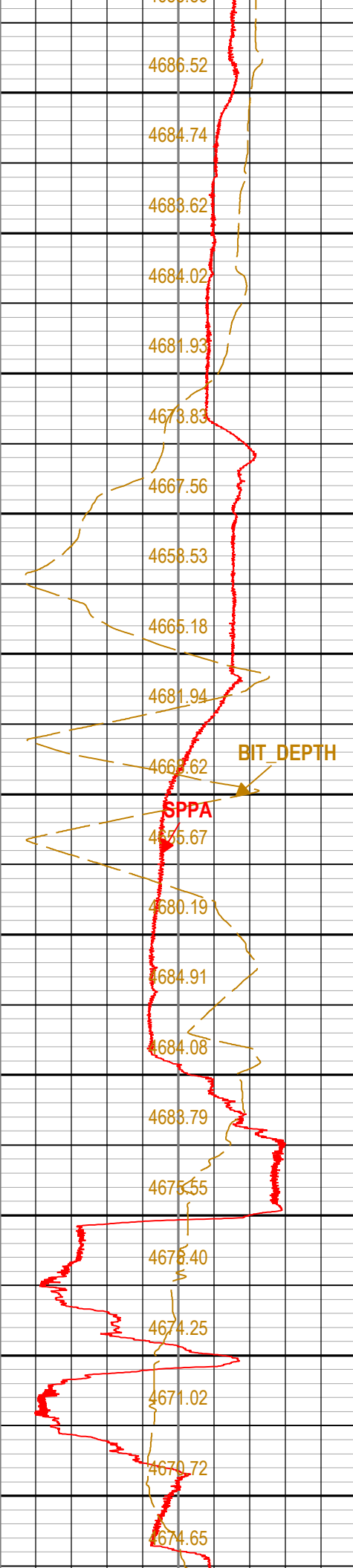
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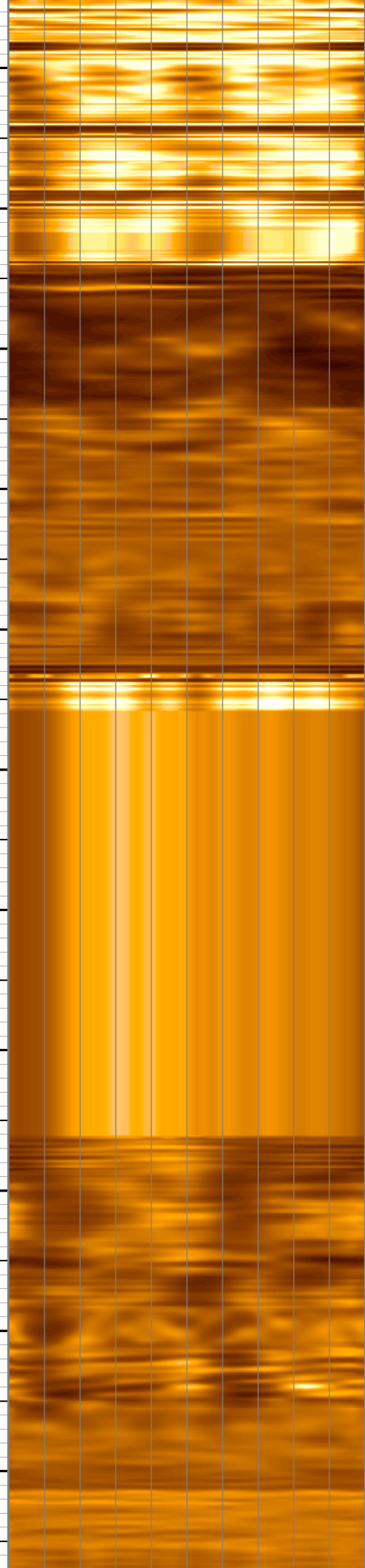
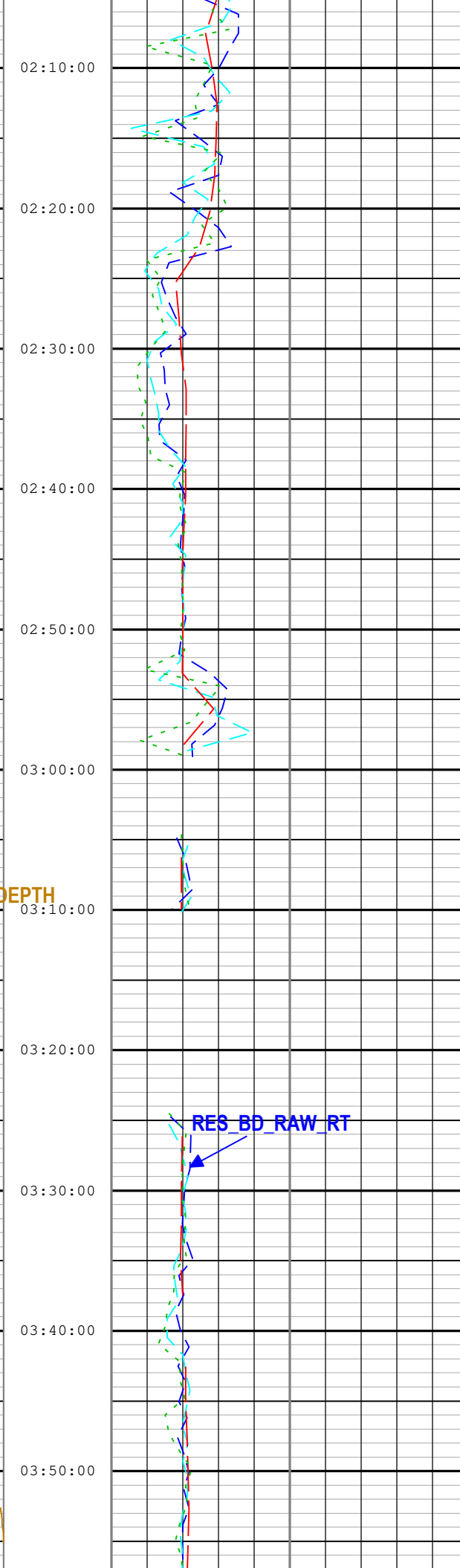
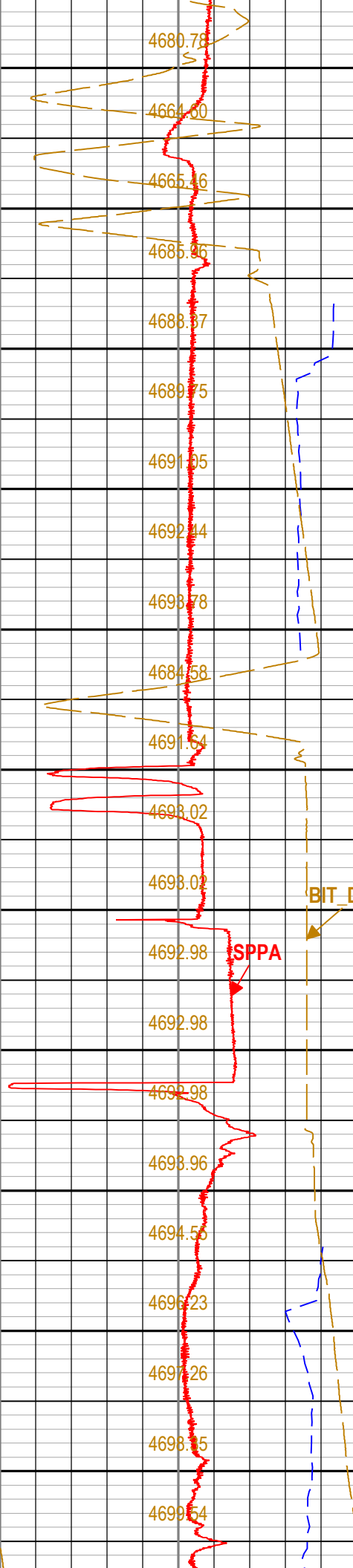


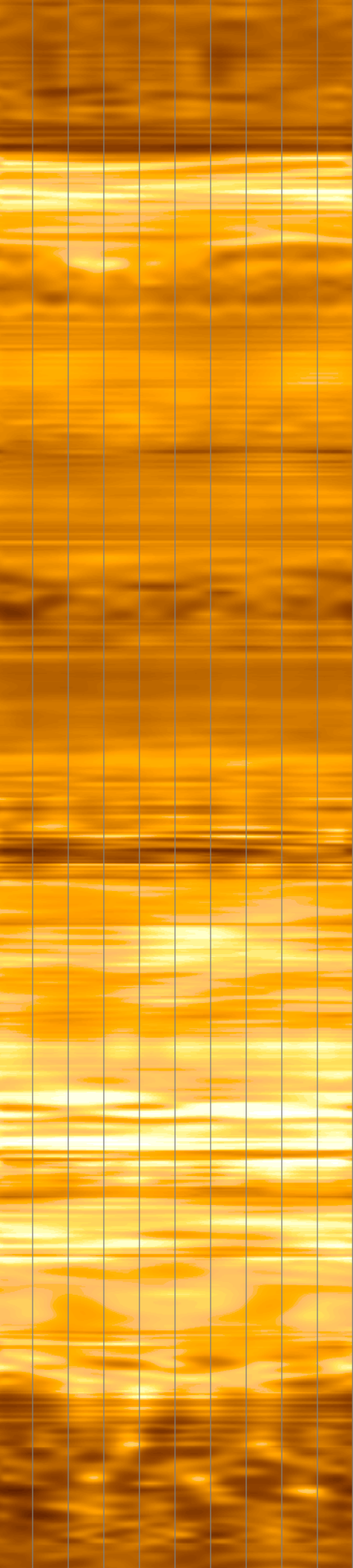
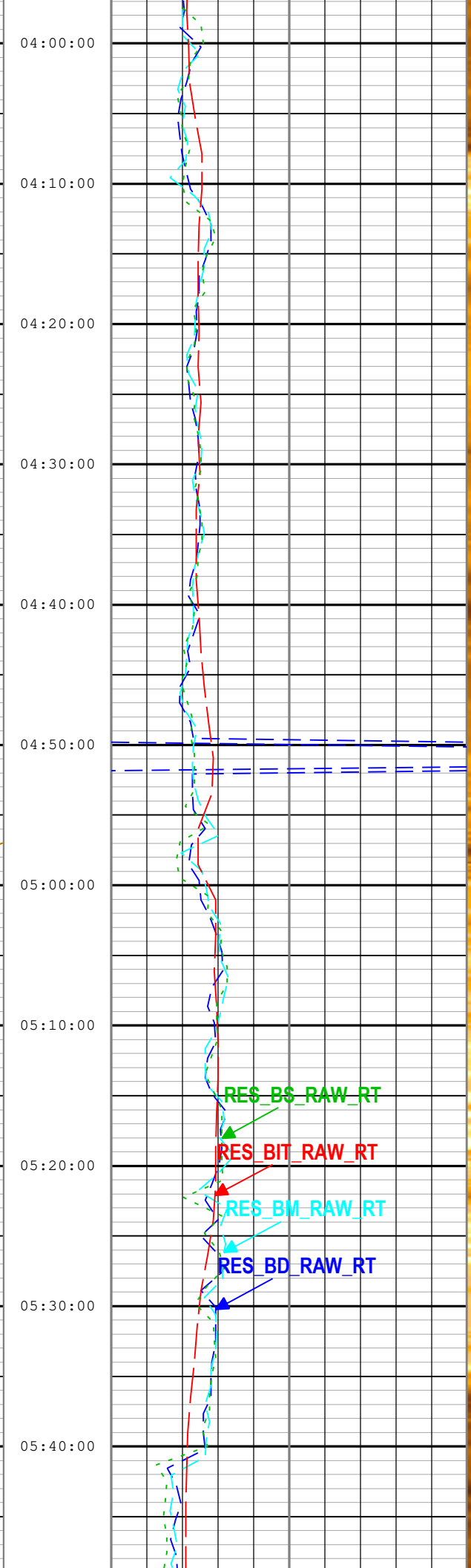
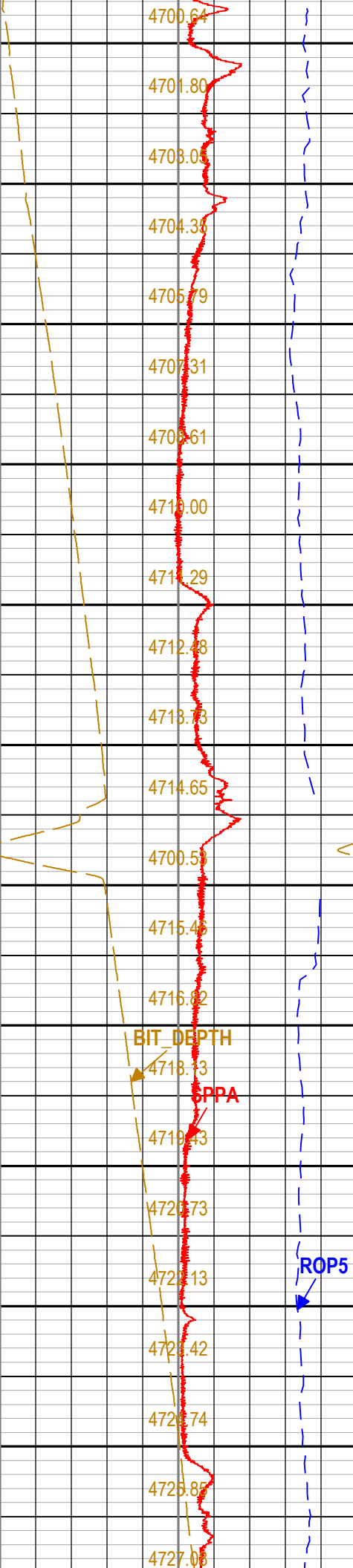




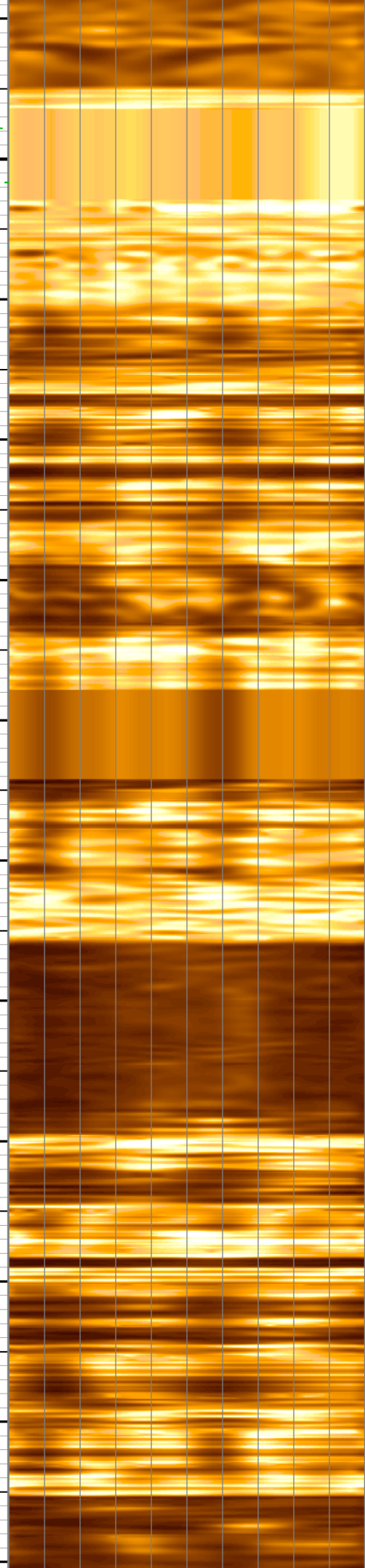
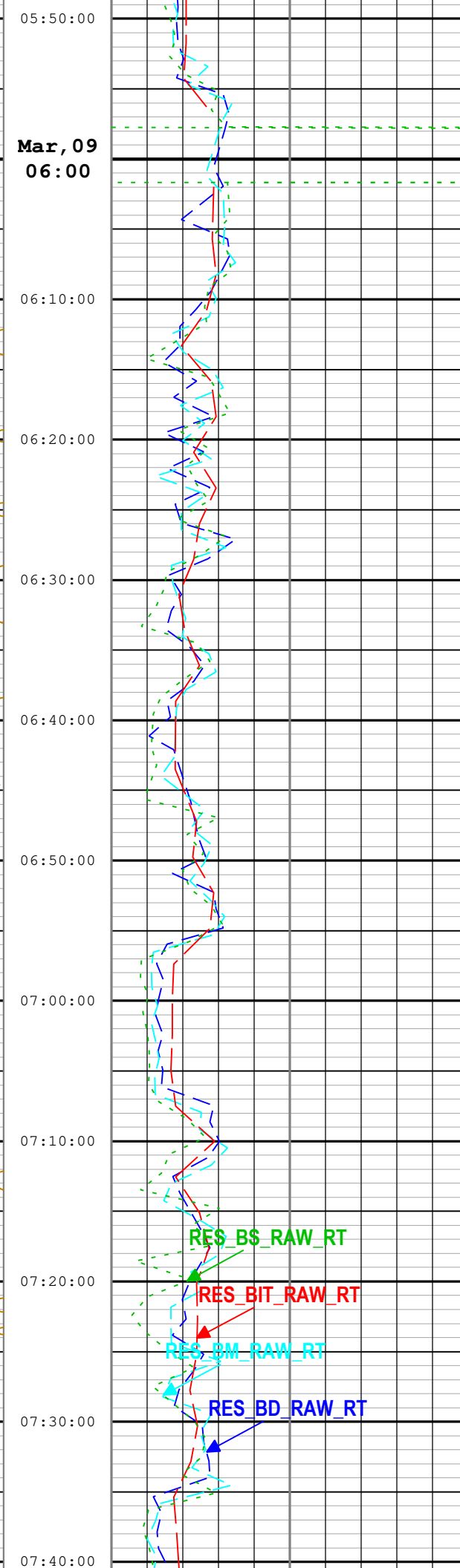
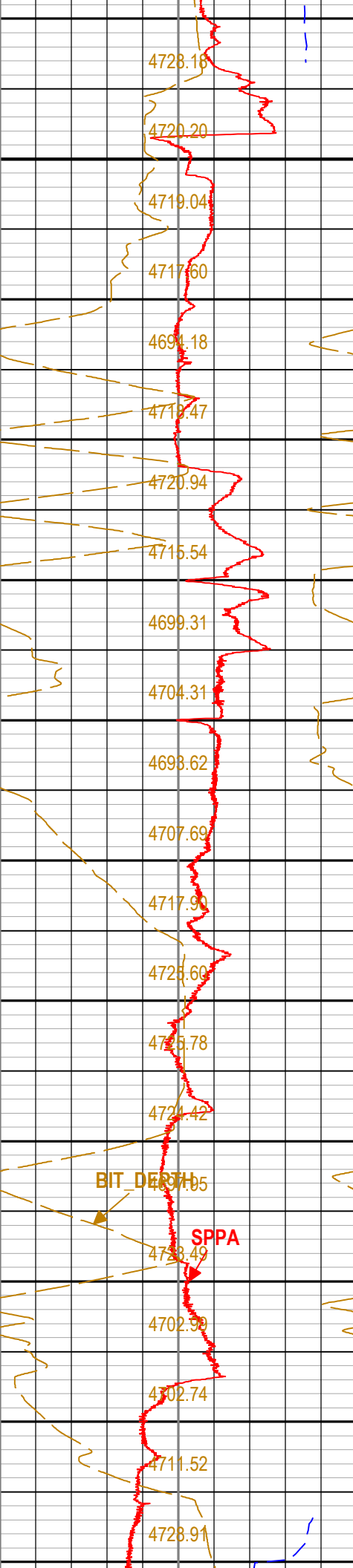


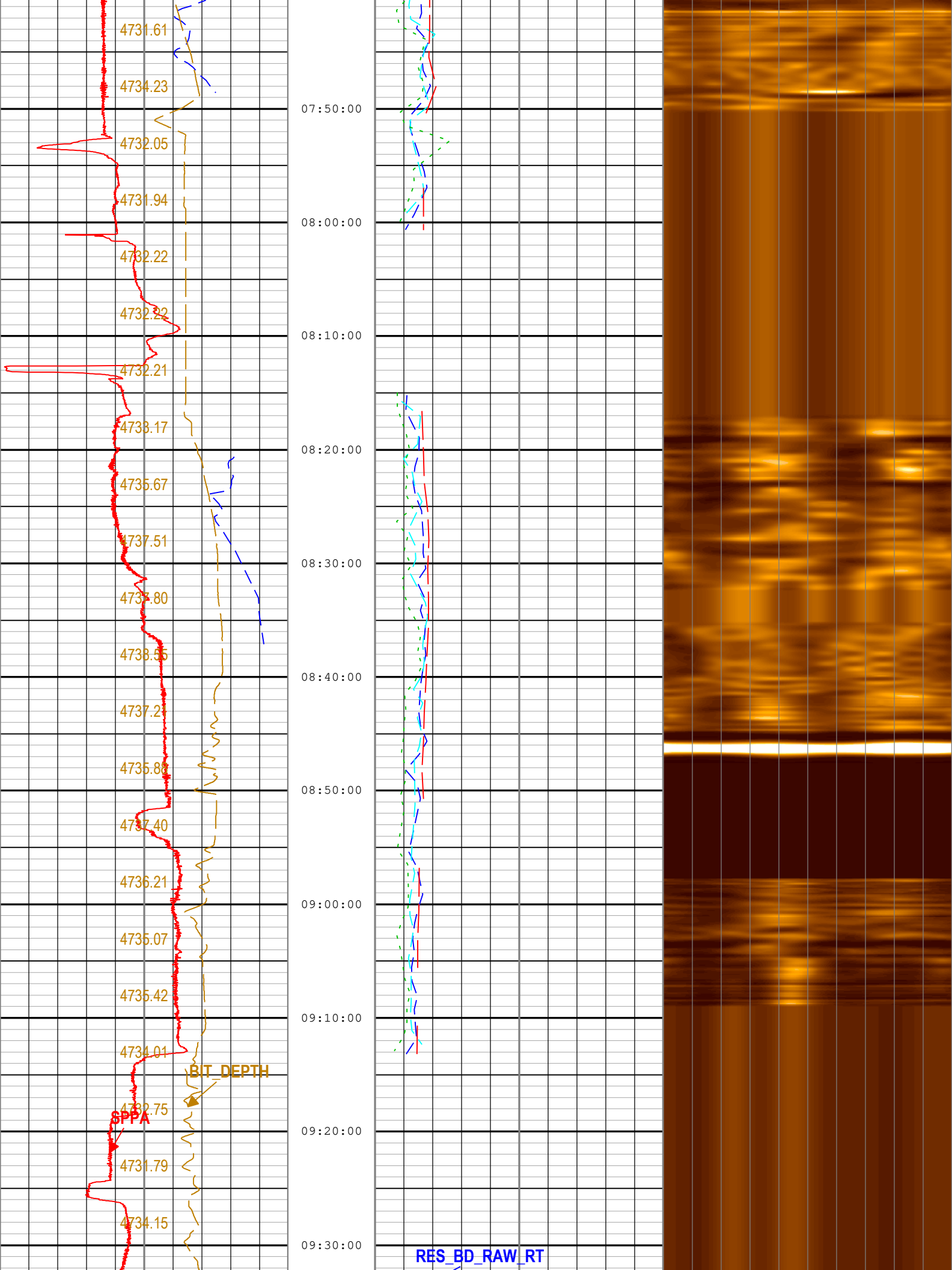


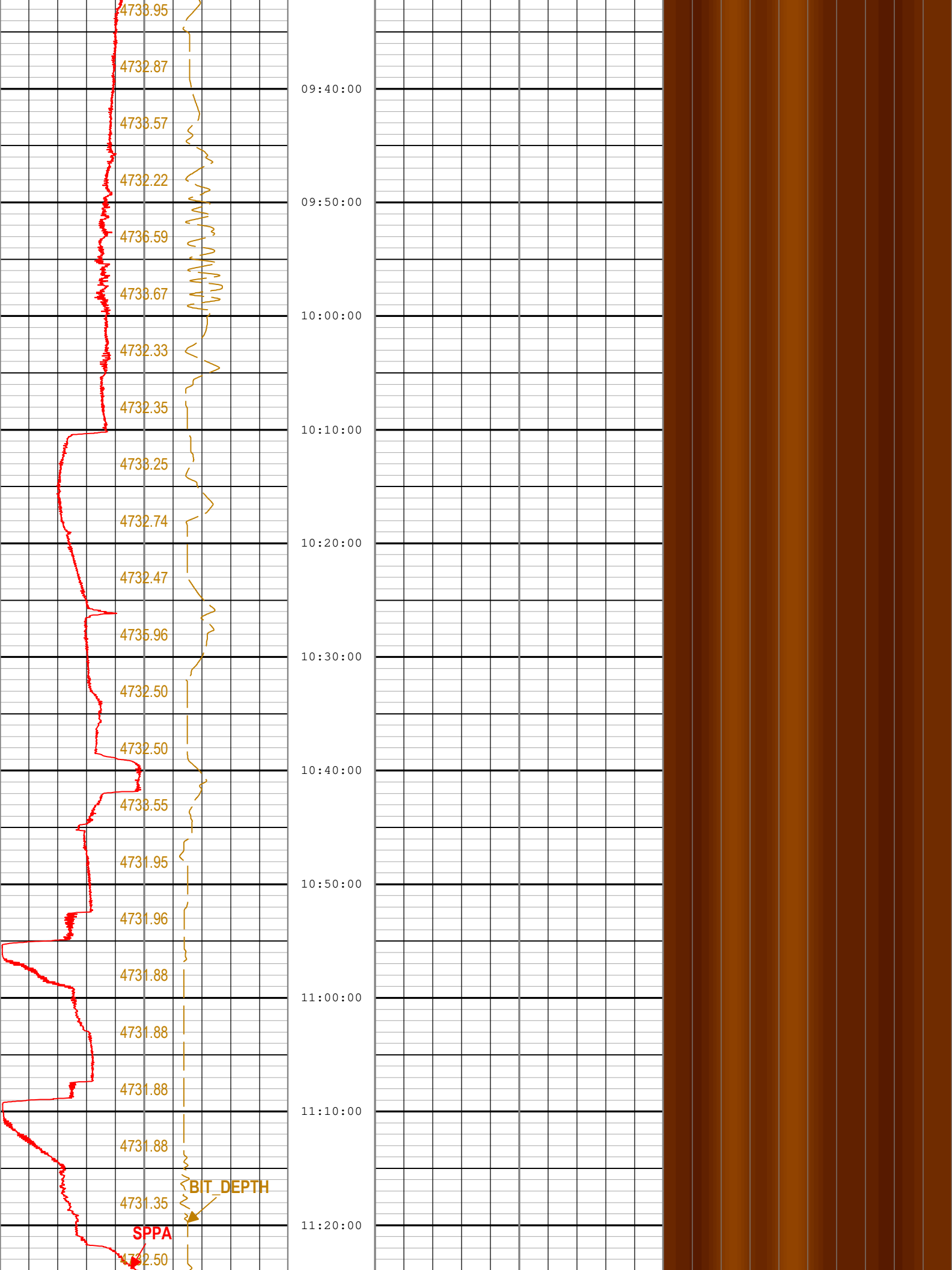




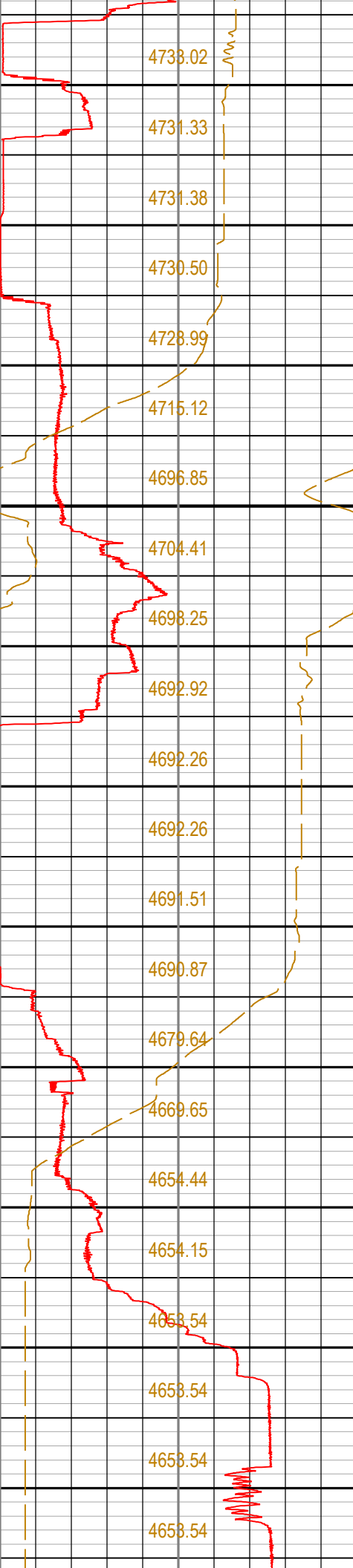






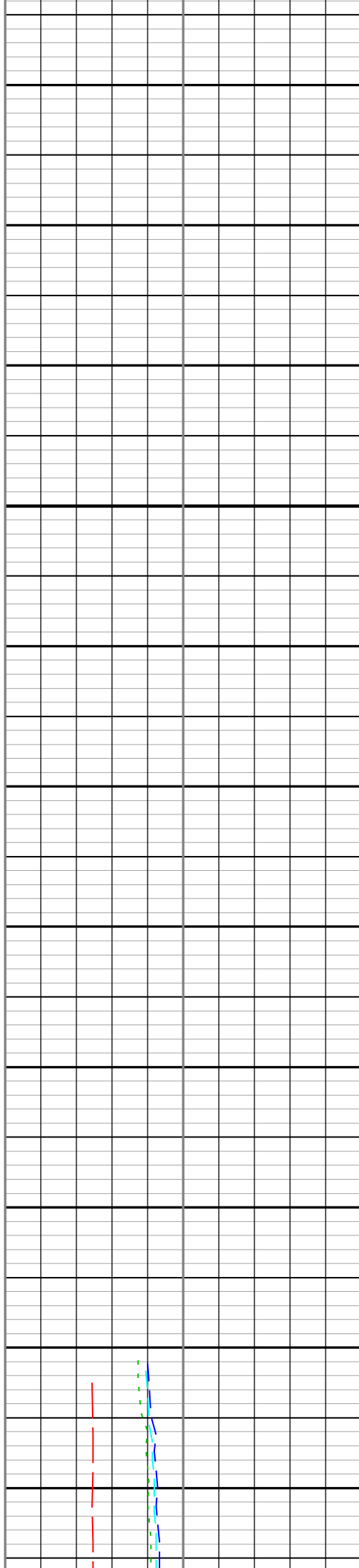


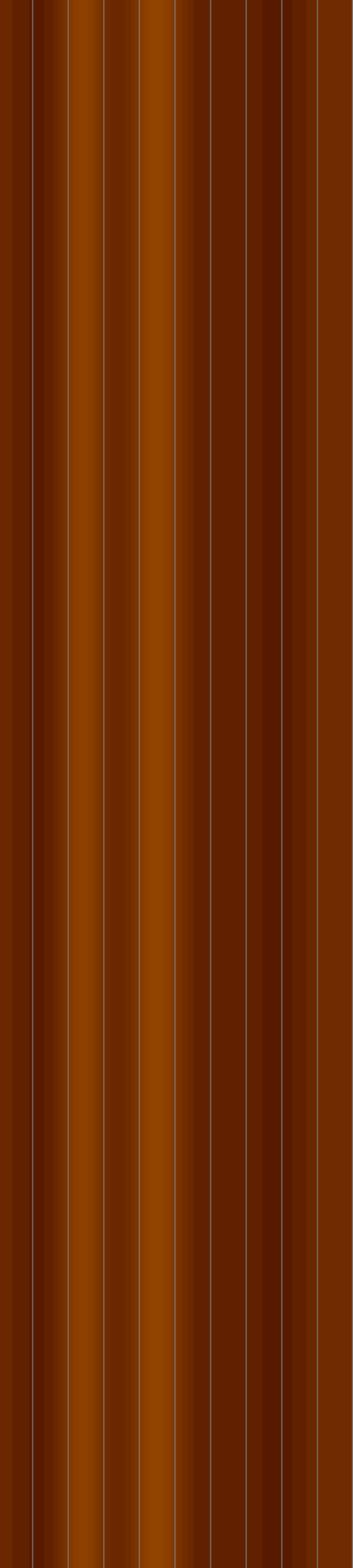
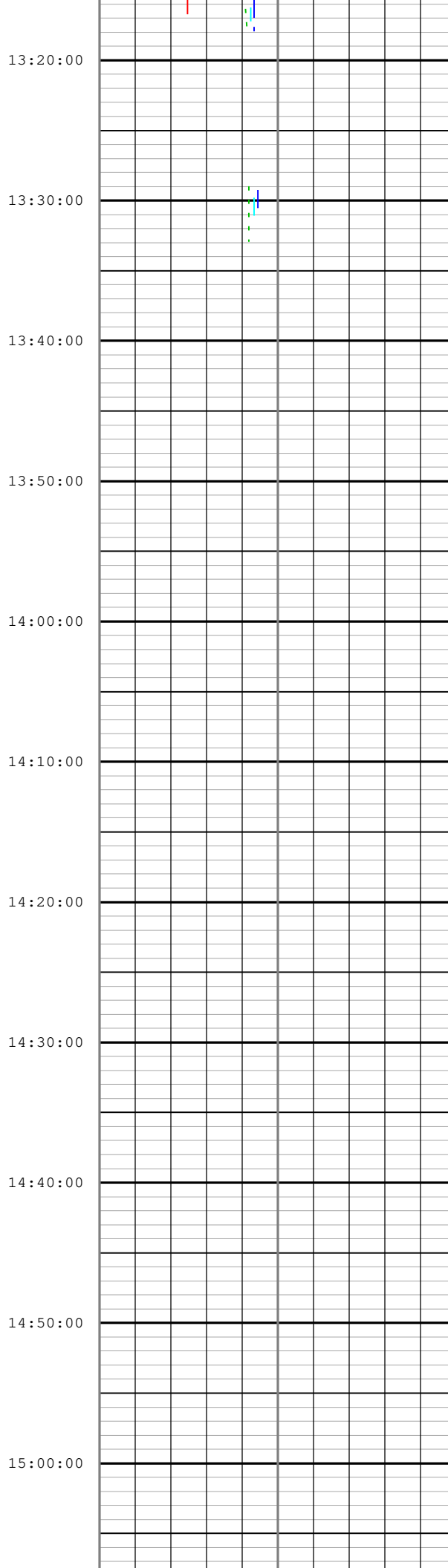
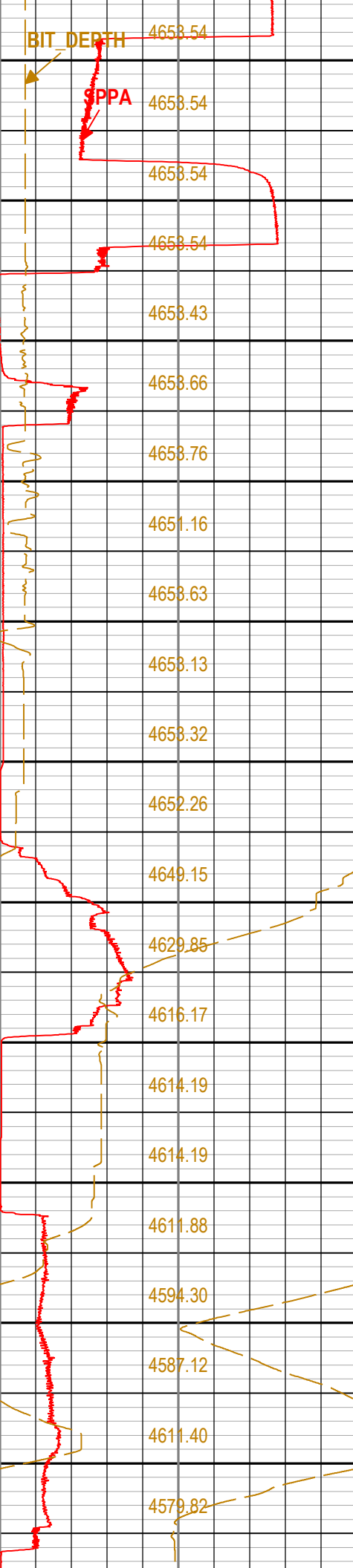


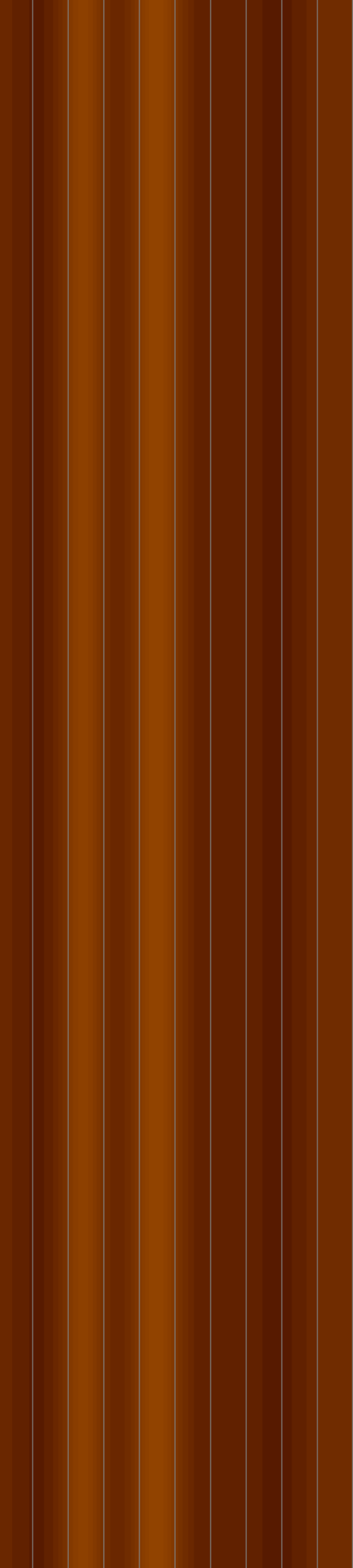
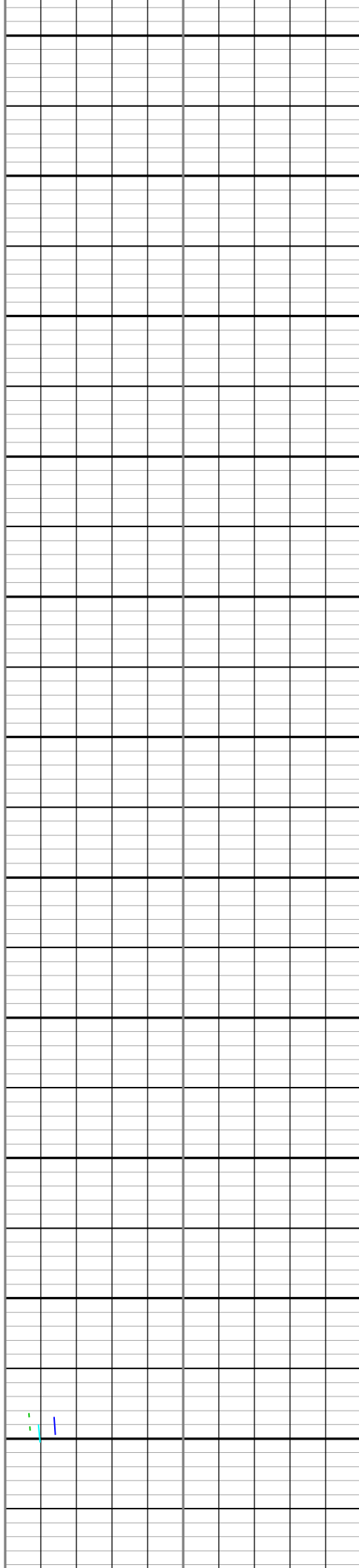
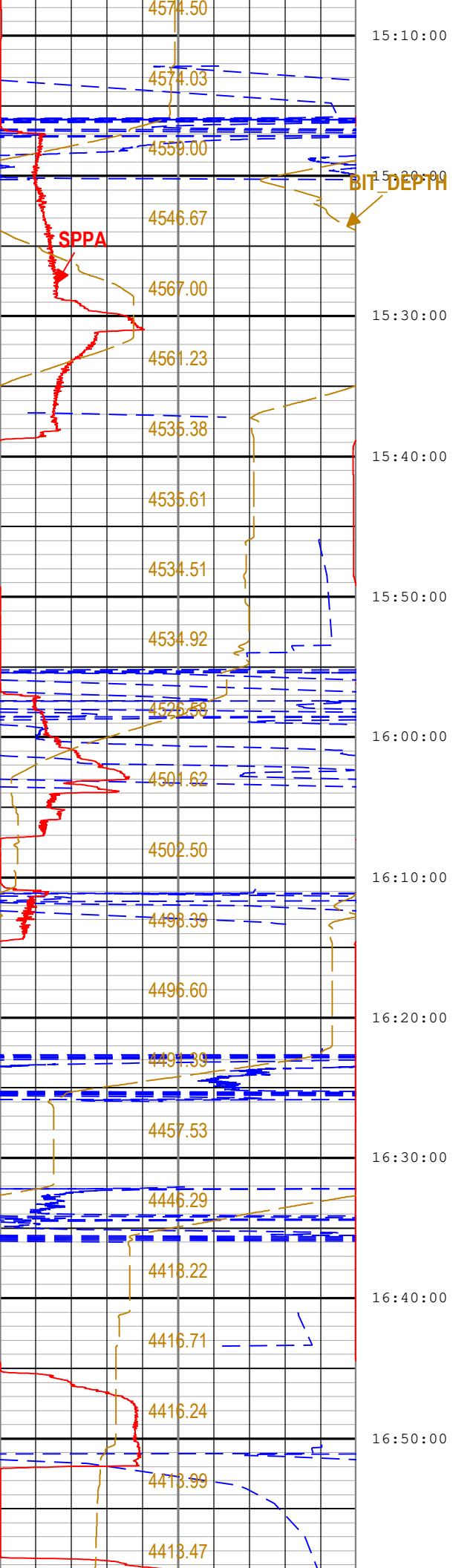


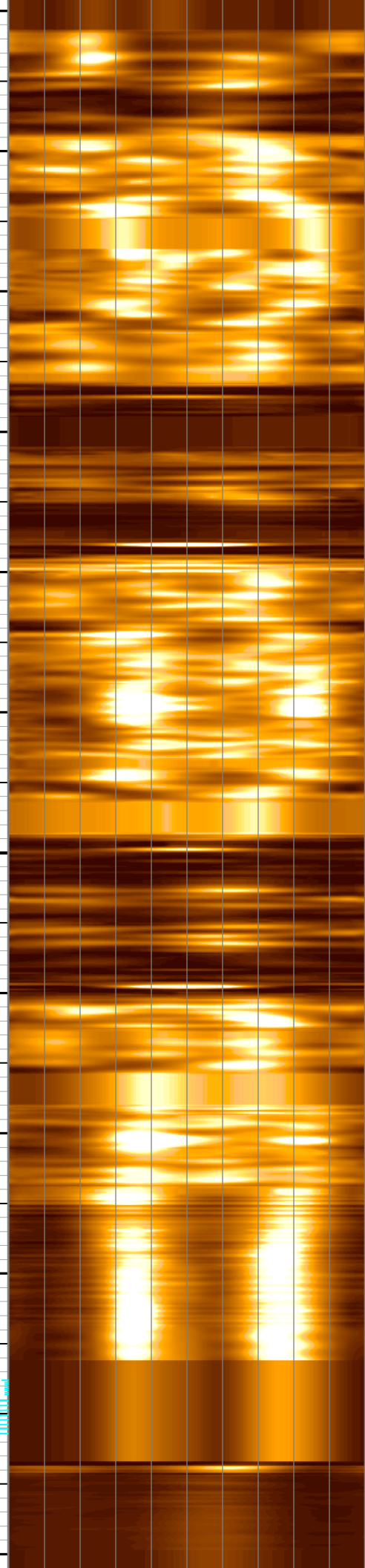
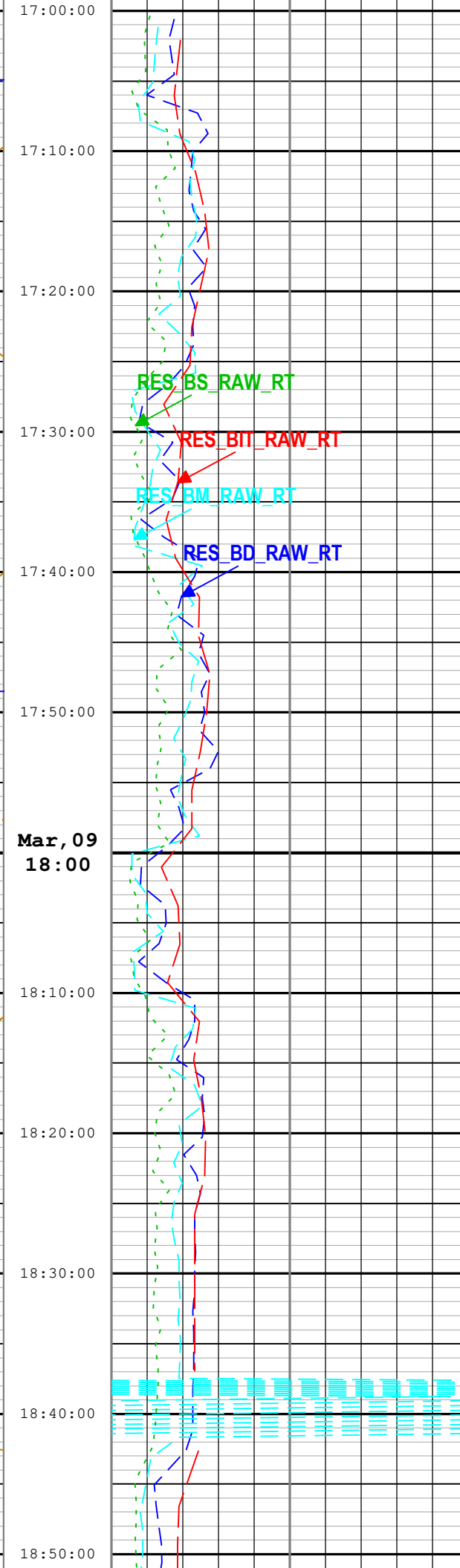
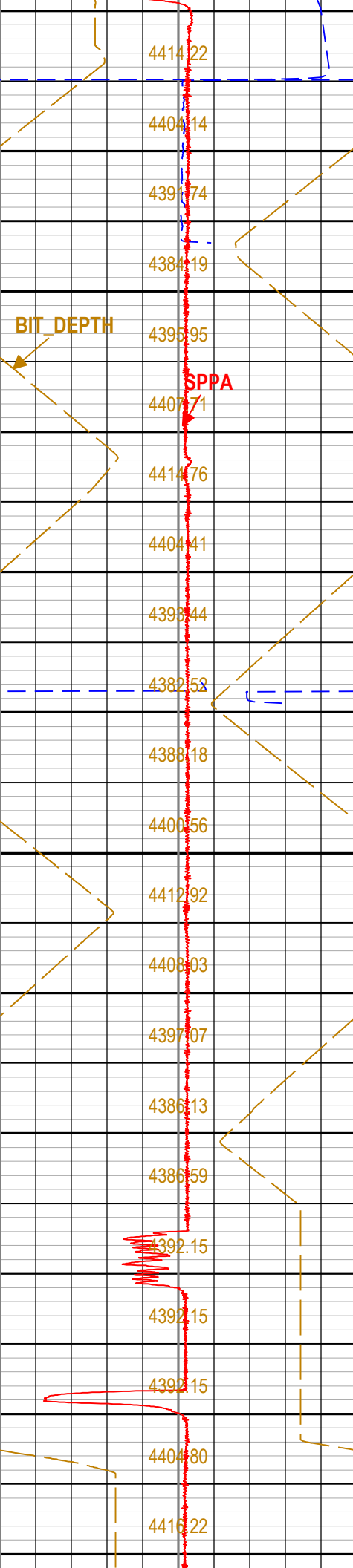
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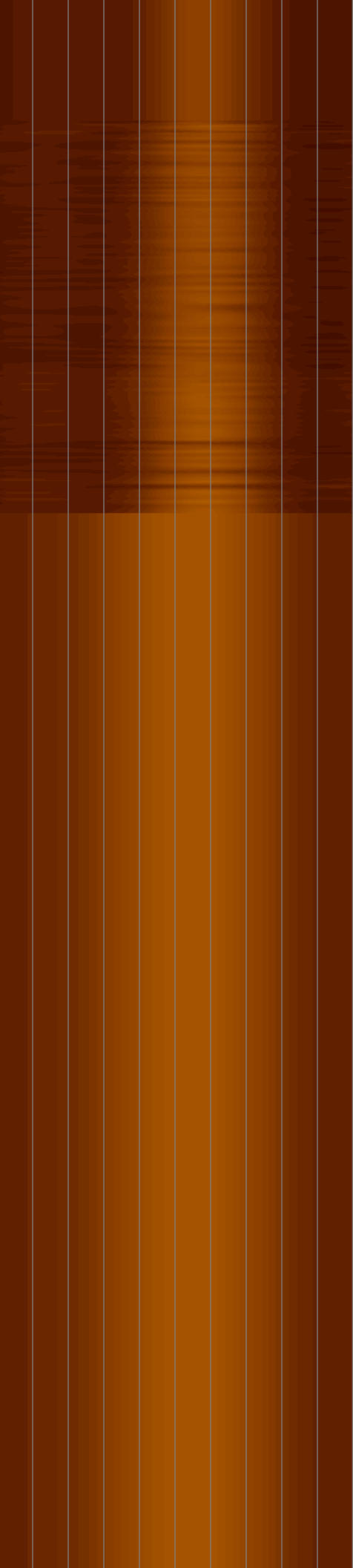
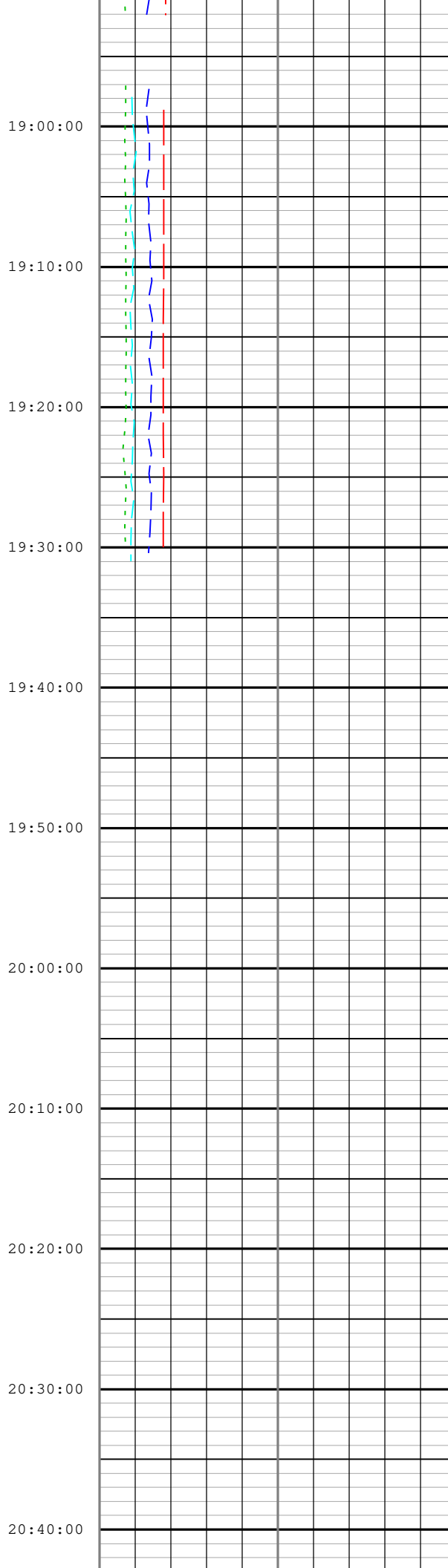
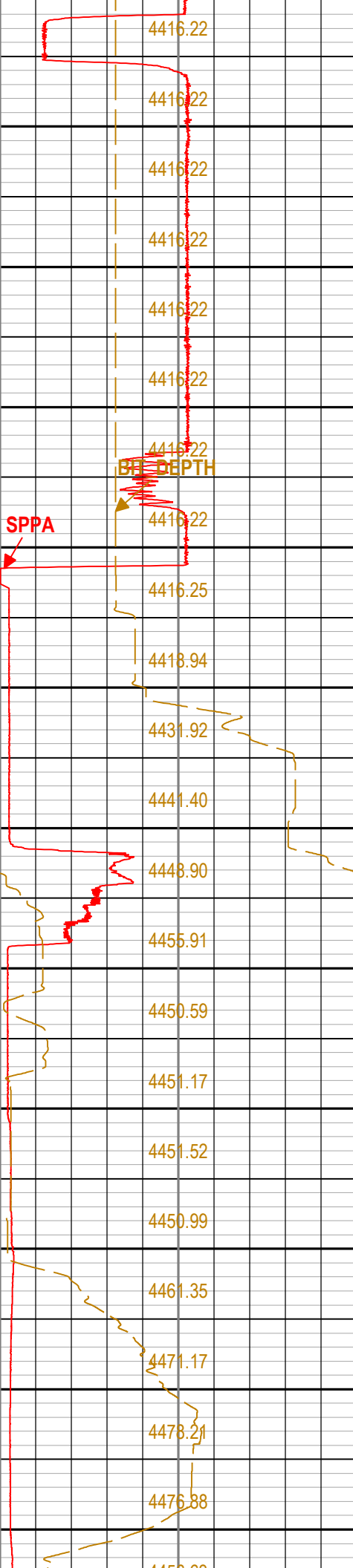
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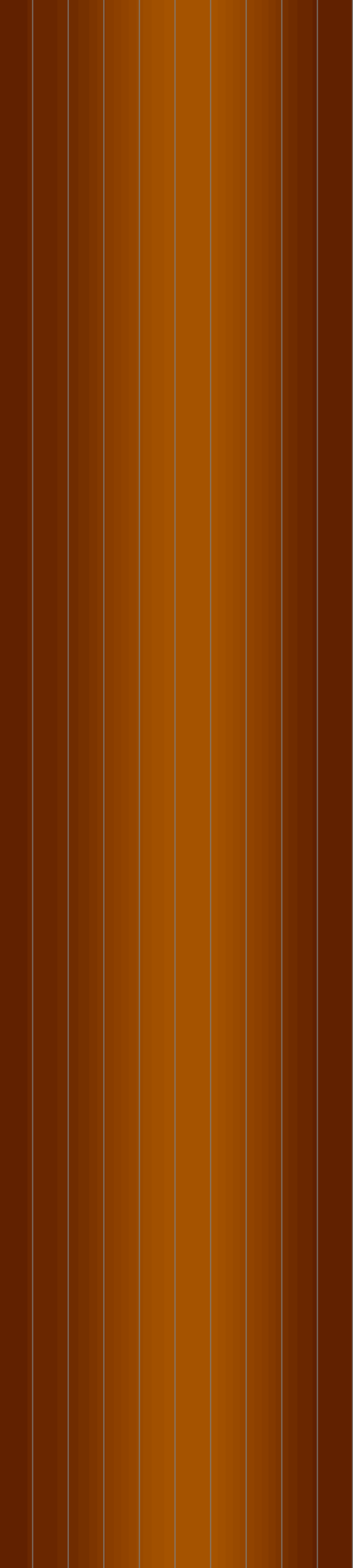
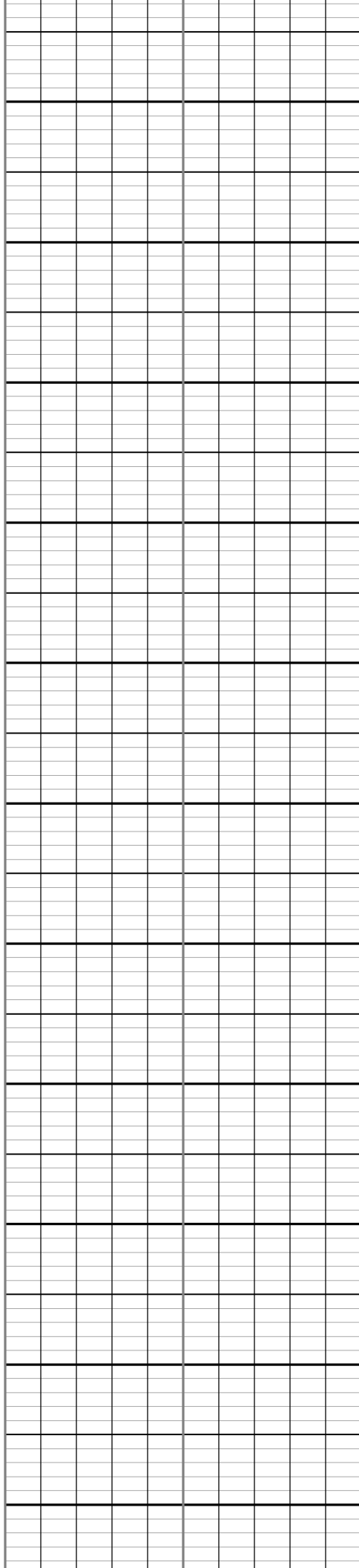
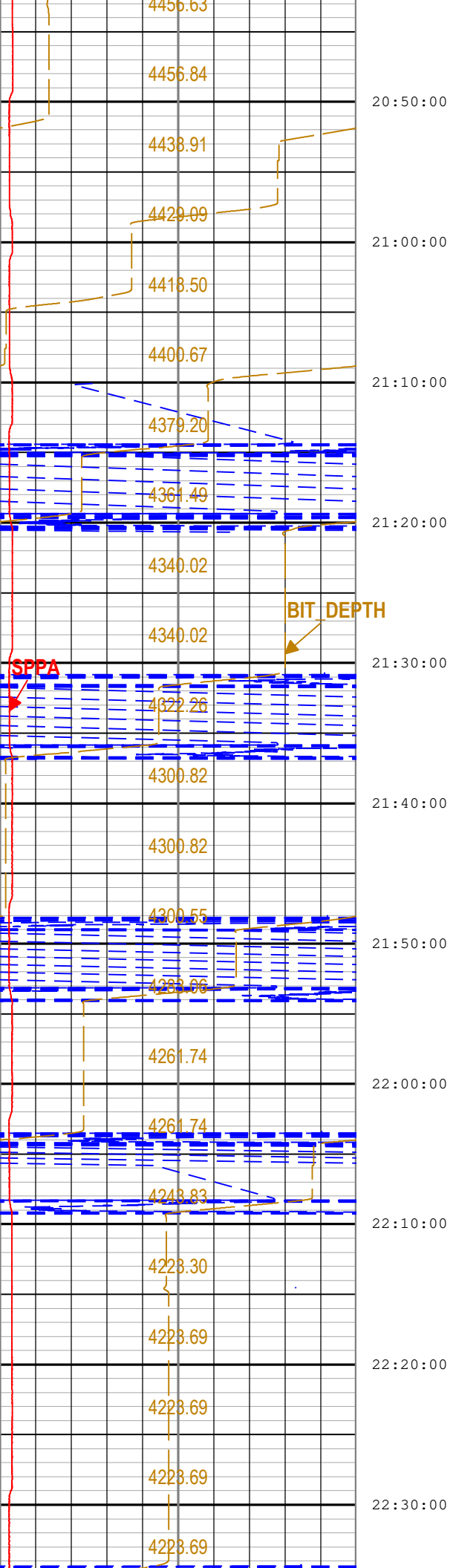




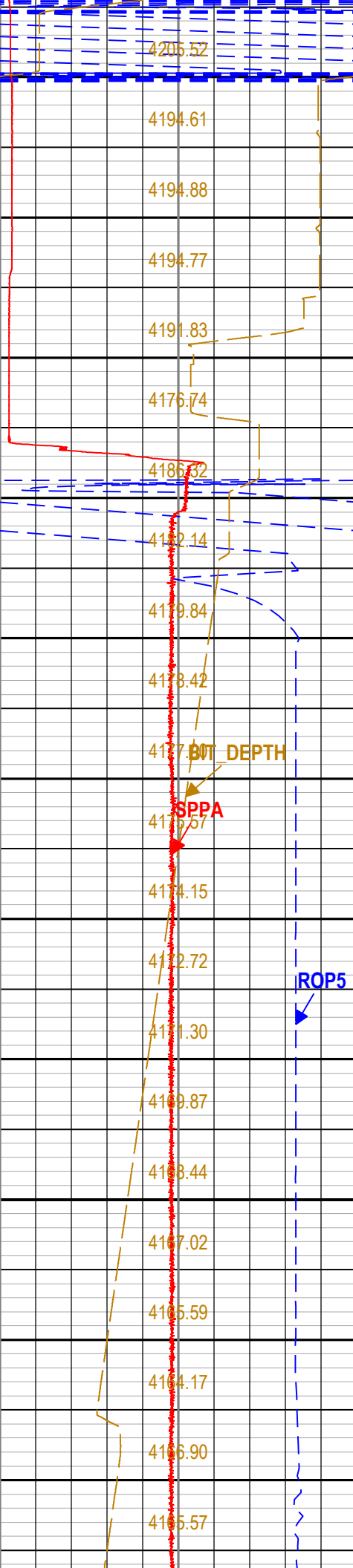




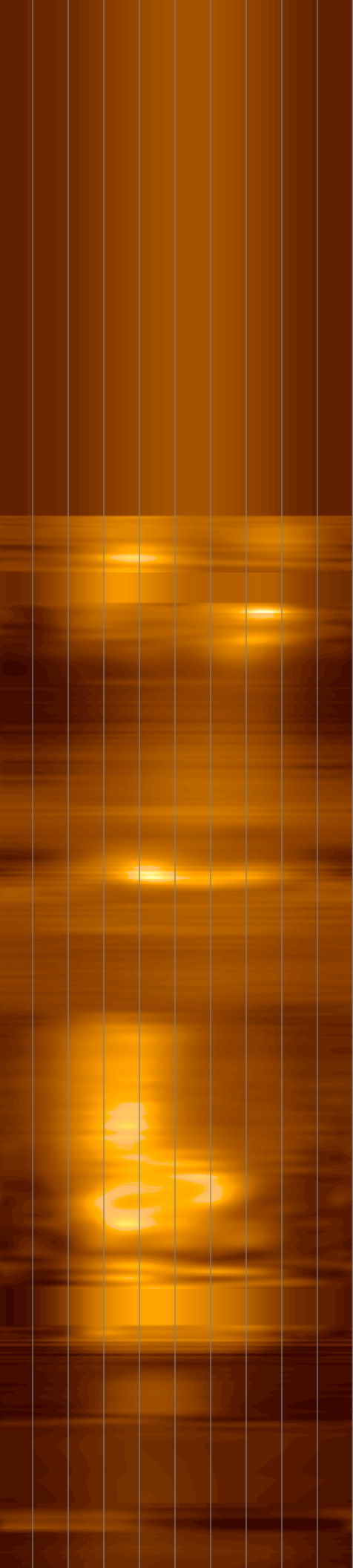
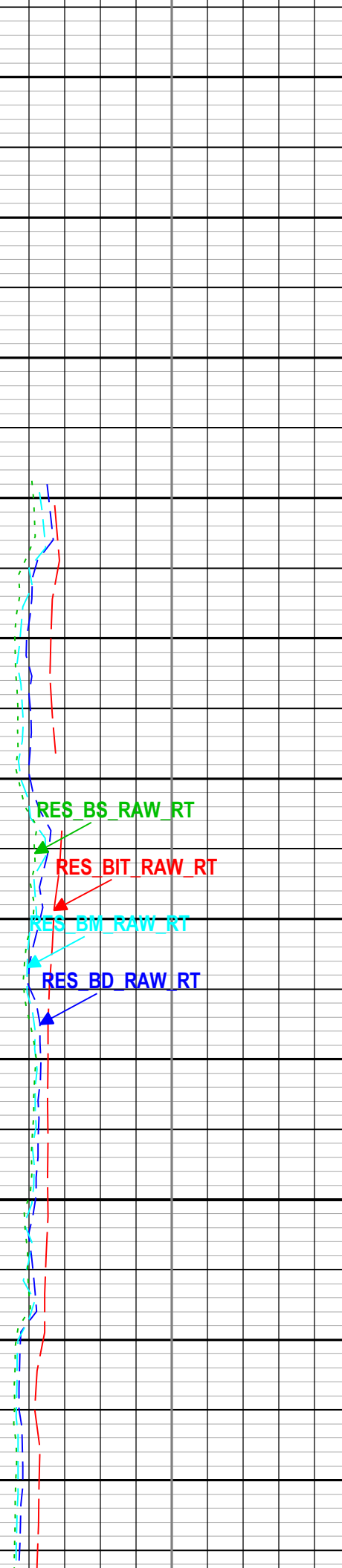


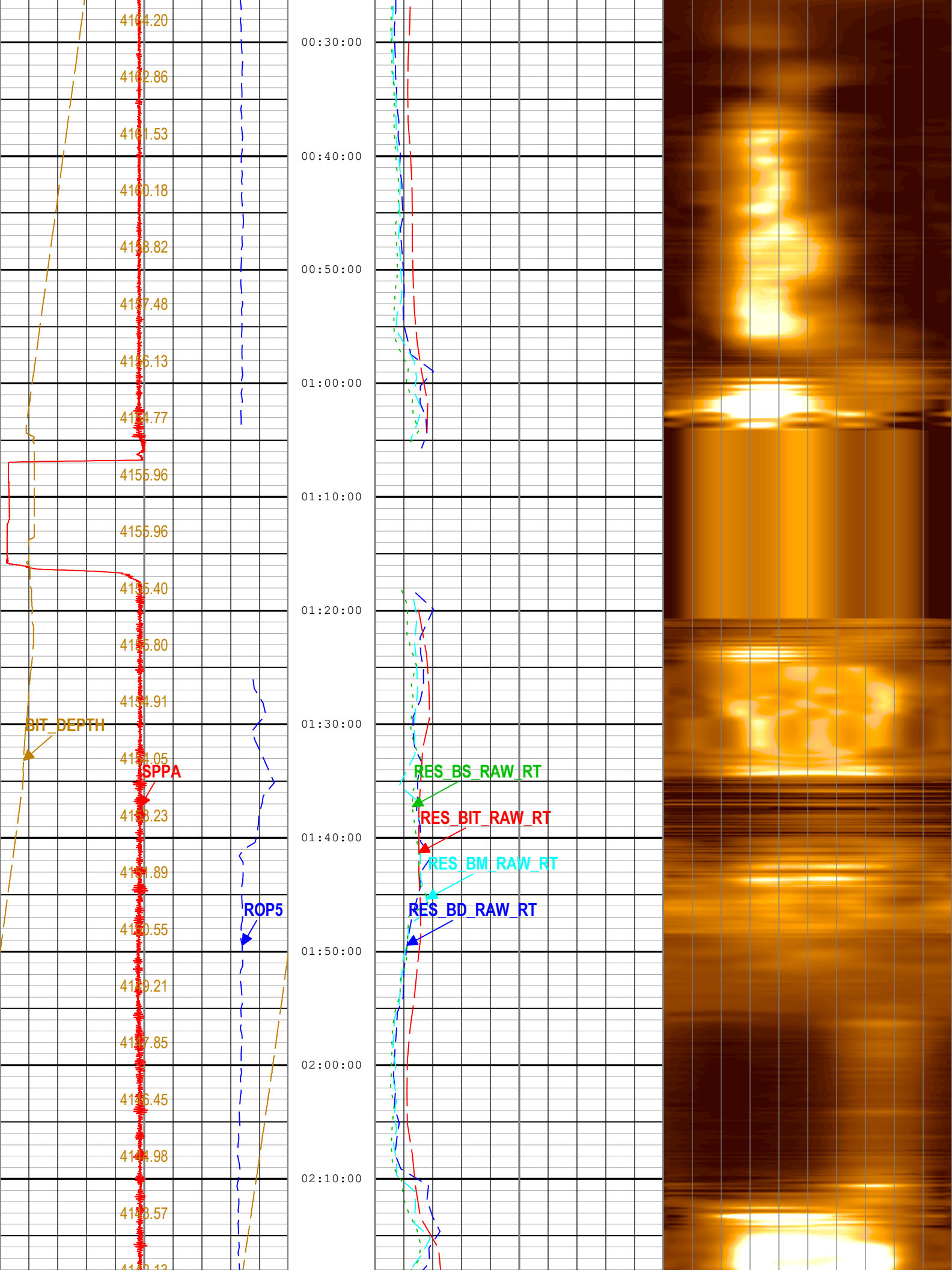


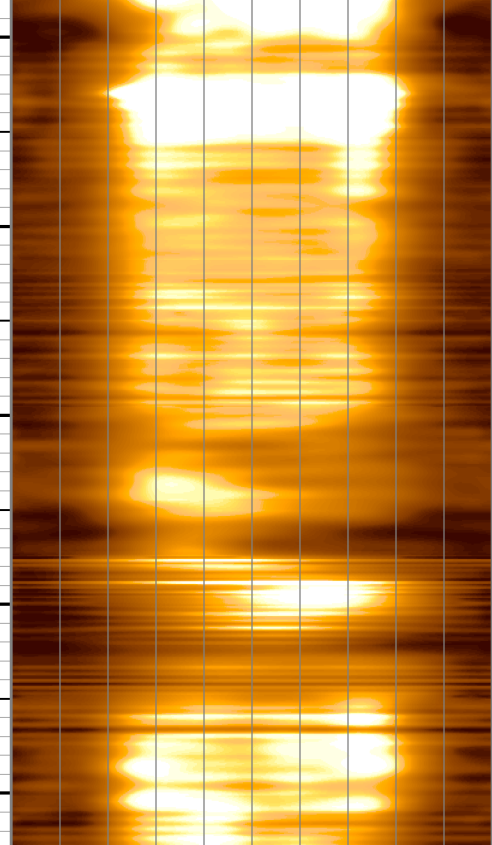
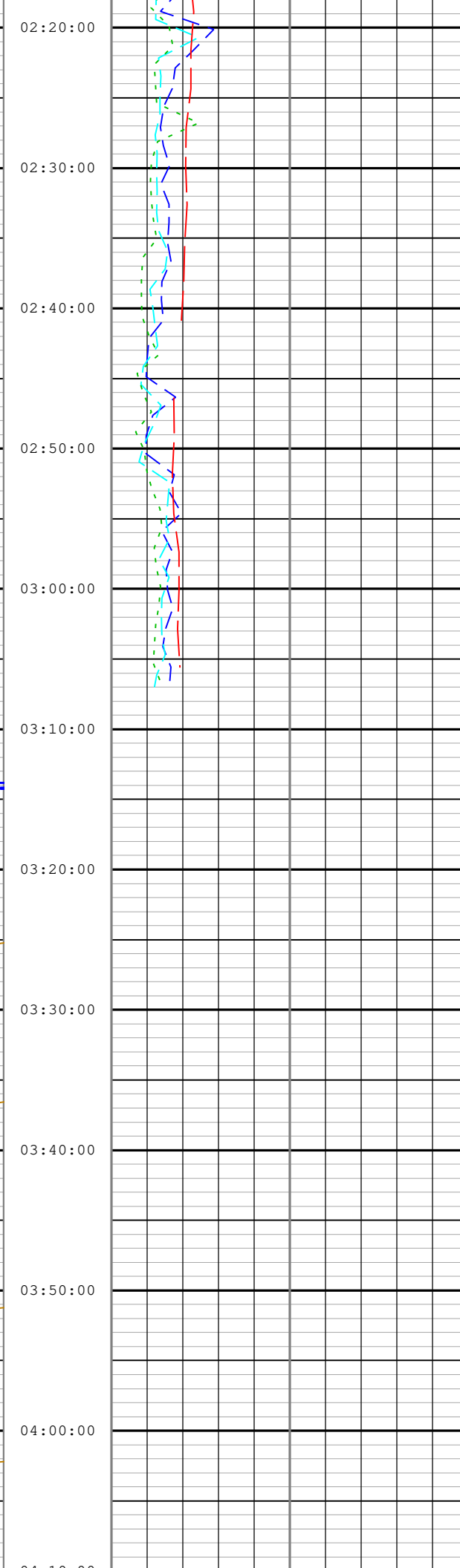
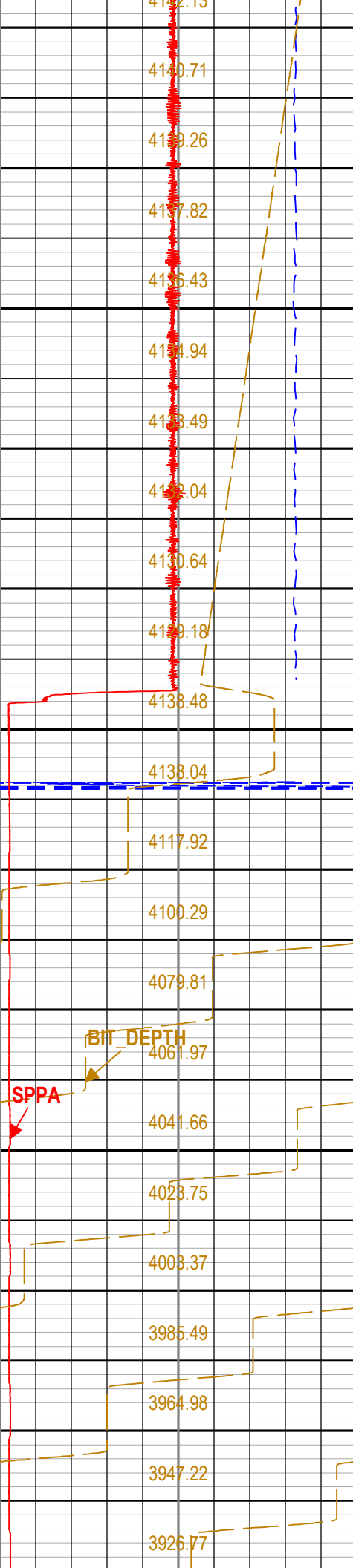


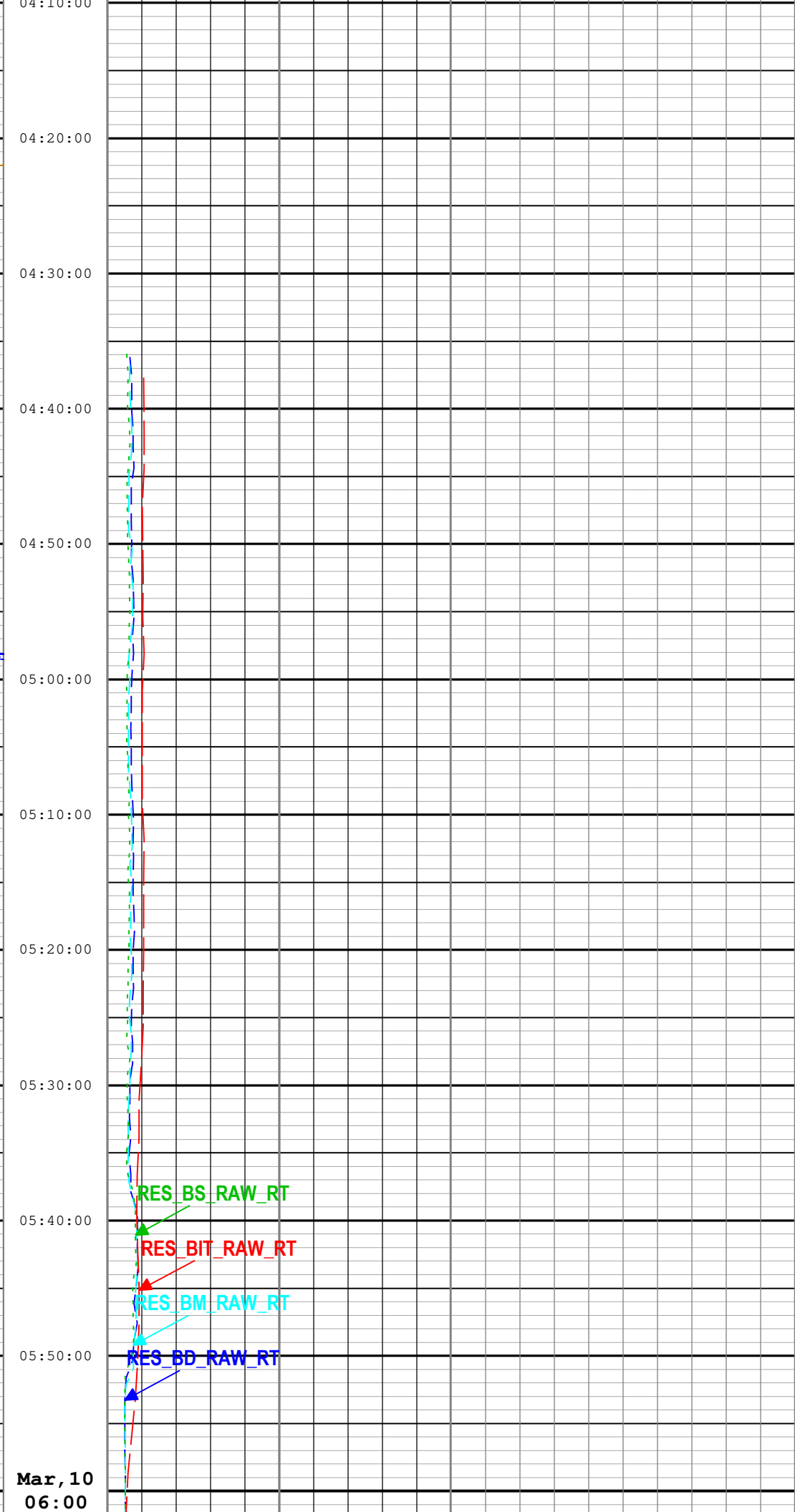
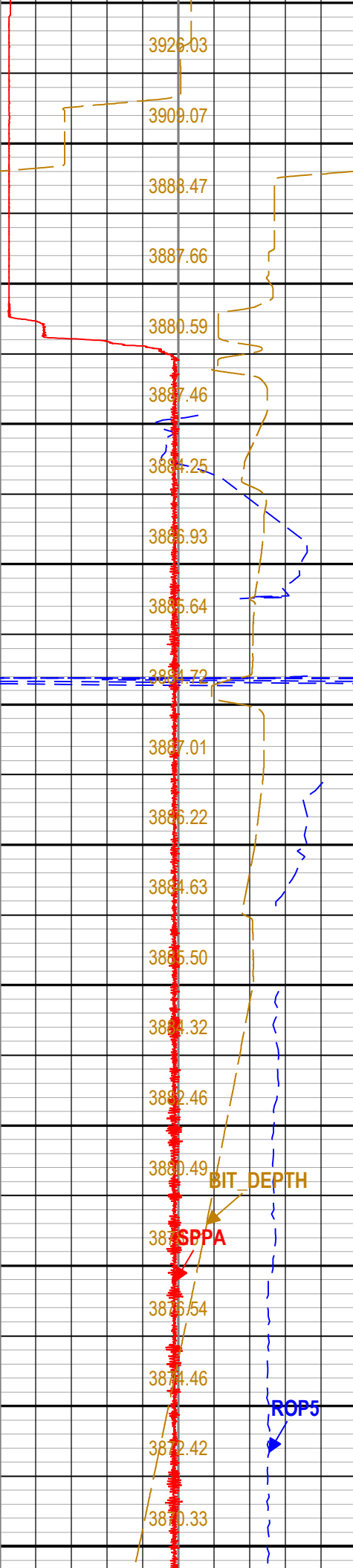


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 00:10:00  
 00:20:00

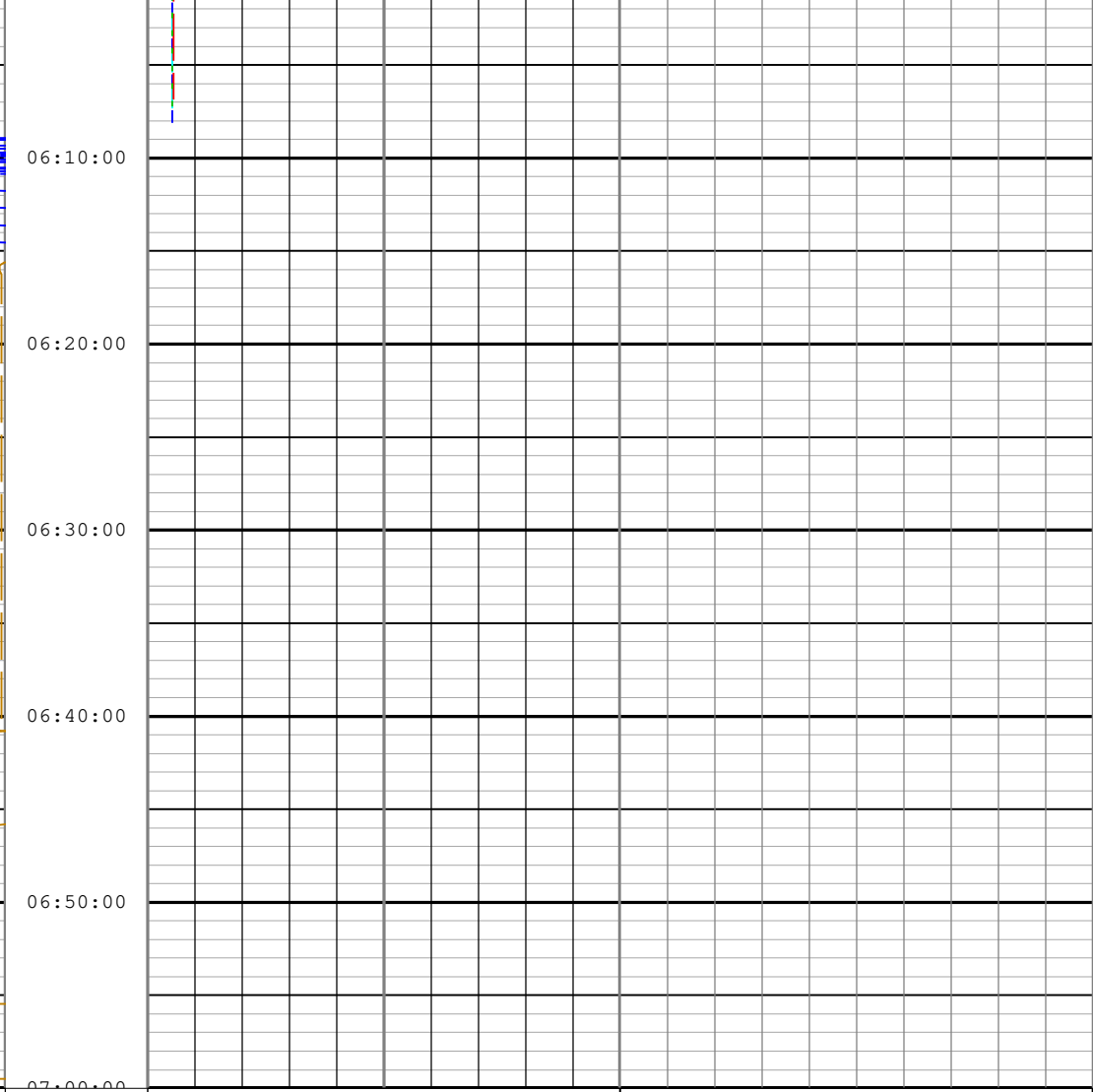
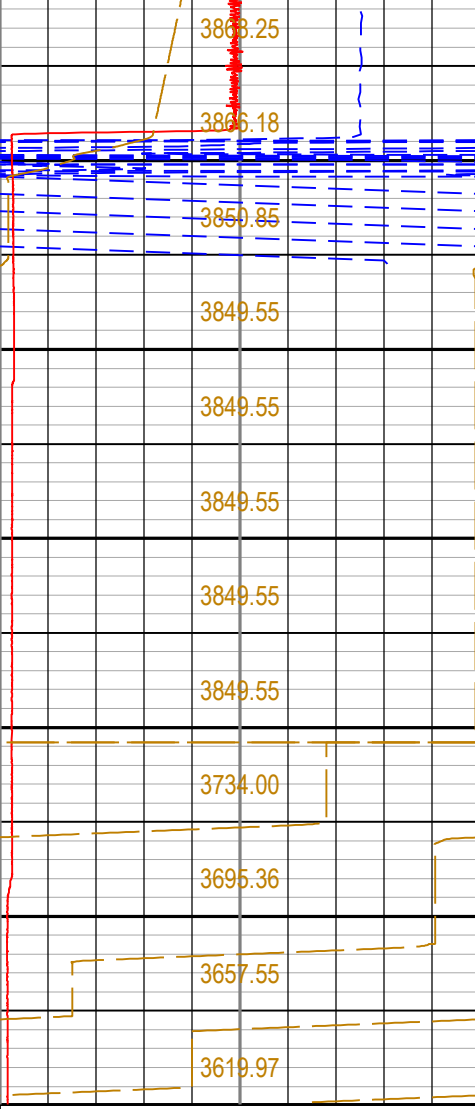






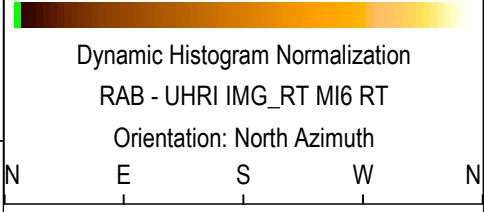


Mar, 10  
06:00



Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT	100	m/h	0
Standpipe Pressure (SPPA) RT	0	kPa	24000
Bit Depth (BIT_DEPTH) RT	0	m	50
Bit Depth (BIT_DEPTH) RT		m	

Raw Deep Button Resistivity (RES_BD_RAW_RT) MI6 RT	0	ohm.m	6
Raw Medium Button Resistivity (RES_BM_RAW_RT) MI6 RT	0	ohm.m	6
Raw Bit Resistivity (RES_BIT_RAW_RT) MI6 RT	0	ohm.m	6
Raw Shallow Button Resistivity (RES_BS_RAW_RT) MI6 RT	0	ohm.m	6



Description: Format: Log ( UHRI Image Time ) Index Scale: 15 cm per 3600 s Index Type: Time Creation Date: 11-Mar-2019 09:26:56

## Channel Processing Parameters

### Run1: Parameters

Parameter	Description	Tool	Value	Unit
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## Tool Control Parameters

### Calibration Report

#### ARC6 (Array Resistivity Compensated 675) Calibration - Run Run1

Primary Equipment :	Elec. Chassis HP with AIM Receiver	AREA
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## RESAIRCAL - Resistivity: Air

Master (Time Frame File): 01:33:55 03-Jan-2019

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Attenuation T1 at 2 MHz	dB	Master	8.500	6.500	8.298	10.500	
Attenuation T2 at 2 MHz	dB	Master	6.500	4.500	6.662	8.500	
Attenuation T3 at 2 MHz	dB	Master	4.500	2.500	4.923	6.500	
Attenuation T4 at 2 MHz	dB	Master	4.600	2.600	4.570	6.600	
Attenuation T5 at 2 MHz	dB	Master	3.600	1.600	3.479	5.600	
Phase Shift T1 at 2 MHz	deg	Master	0.100	-3.900	0.001	4.100	
Phase Shift T2 at 2 MHz	deg	Master	0.100	-3.900	0.071	4.100	
Phase Shift T3 at 2 MHz	deg	Master	0.100	-3.900	-0.071	4.100	
Phase Shift T4 at 2 MHz	deg	Master	0.100	-3.900	0.042	4.100	
Phase Shift T5 at 2 MHz	deg	Master	0.100	-3.900	-0.086	4.100	
Attenuation T1 at 400 KHz	dB	Master	8.500	6.500	8.261	10.500	
Attenuation T2 at 400 KHz	dB	Master	6.500	4.500	6.711	8.500	
Attenuation T3 at 400 KHz	dB	Master	4.500	2.500	4.874	6.500	
Attenuation T4 at 400 KHz	dB	Master	4.600	2.600	4.611	6.600	
Attenuation T5 at 400 KHz	dB	Master	3.600	1.600	3.437	5.600	
Phase Shift T1 at 400 KHz	deg	Master	0.100	-3.900	0.907	4.100	
Phase Shift T2 at 400 KHz	deg	Master	0.100	-3.900	-1.041	4.100	
Phase Shift T3 at 400 KHz	deg	Master	0.100	-3.900	0.956	4.100	
Phase Shift T4 at 400 KHz	deg	Master	0.100	-3.900	-1.006	4.100	
Phase Shift T5 at 400 KHz	deg	Master	0.100	-3.900	0.952	4.100	

## GRGAIN - Gamma Ray: Blanket

Master (Time Frame File): 00:31:30 03-Jan-2019

Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	
Gamma Ray Calibration Gain		Master	1.000	0.580	1.068	1.250	

Company: JAMSTEC

Well: C0024A



Field: C0024  
Rig Name: D/V Chikyu  
Prefecture: Wakayama  
Country: Japan



**Schlumberger**

MicroScopeHD Resistivity Image

HD Resistivity Image

C0024A Run1, Real-Time Log, Time Index