

# EcoScope Gamma Ray Service

## 1:240 Measured Depth

### Recorded Mode Data



**Company:** IODP  
**Well:** U1519A  
**Field:** HSM-01A  
**Rig Name:** Joides Resolution  
**Expedition:** 372  
**Country:** New Zealand

**Latitude:** 38° 43' 38.22" S  
**Longitude:** 178° 36' 51.24" E  
**Block:** EXP372  
**FL1:**  
**FL2:**

**UWID:**  
**Rig Name:** Joides Resolution  
**Rig Type:** Drill Ship  
**Log Measured From:** - Drill Floor: 11.00 m  
**Permanent Datum:** - Mean Sea Level  
**Ground Level:** 1004.00 m

<b>Acquisition Dates:</b>	23-Dec-2017 -- 25-Dec-2017	<b>Other Services:</b>	
<b>Log Interval:</b>	1010.00(m) -- 1665.00(m)	<b>SonicScope</b>	
<b>Index Types:</b>	Measured Depth	<b>proVISION Plus</b>	
<b>Index Scales:</b>	1:240	<b>geoVISION Images</b>	
<b>Depth Source:</b>	Driller's Depth	<b>StethoScope</b>	
<b>Depth Sensor:</b>	DES		
<b>Print Type:</b>	Final		
<b>Spud Date:</b>	24-Dec-2017		

## 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.

## Run 1

## FINAL NEO LOG 2

## Software Version

Acquisition System	Version
Maxwell 2017 SP3	7.3.92069.3100

Computation	Description	Version
ECO6NeutronDensity	Neutron-Density Processing, ECO 6.75	7.3.92069.3100
ECO6UltrasonicComputation	Ultrasonic Processing, ECO6 6.75	7.3.92069.3100
ECO6Neutron	Neutron Processing, ECO 6.75	7.3.92069.3100
ECO6GammaRay	Natural Gamma Ray Processing, ECO 6.75	7.3.92069.3100

SoftwareVersion_Tool	SoftwareVersion_System Version	SoftwareVersion_Loaded Version
HSPM	20.3c.062	7.3.92069.3100

Tool Elements	Description	Software Version	Firmware Version
DRILLING_SURFACE	DRILLING_SURFACE	7.3.92069.3100	

DRILLING_SURFACE	DRILLING_SURFACE	7.3.92069.3100	
DVME	NeoScope 6.75 - Electronics Chassis	7.3.92069.3100	V5.300

## Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run 1	Drilling	Down	963.70 m	1664.56 m	23-Dec-2017 8:07:26 PM	25-Dec-2017 4:25:47 PM	Yes

All depths are referenced to toolstring zero

## Log

Company: IODP Well: U1519A

Run 1: Drilling: S020

Description: NeoScope Natural Gamma Ray Format: Log ( FINAL ECO LOG 2 ) Index Scale: 1:240 Index Unit: m Index Type: Measured Depth

Creation Date: 30-Dec-2017 00:52:56

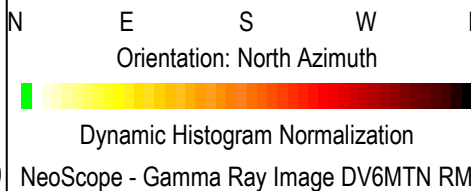
TICK\_GR - Gamma Ray Samples DV6MTN RM

TICK\_RHON - RHON Tick Marks DV6MTN RM

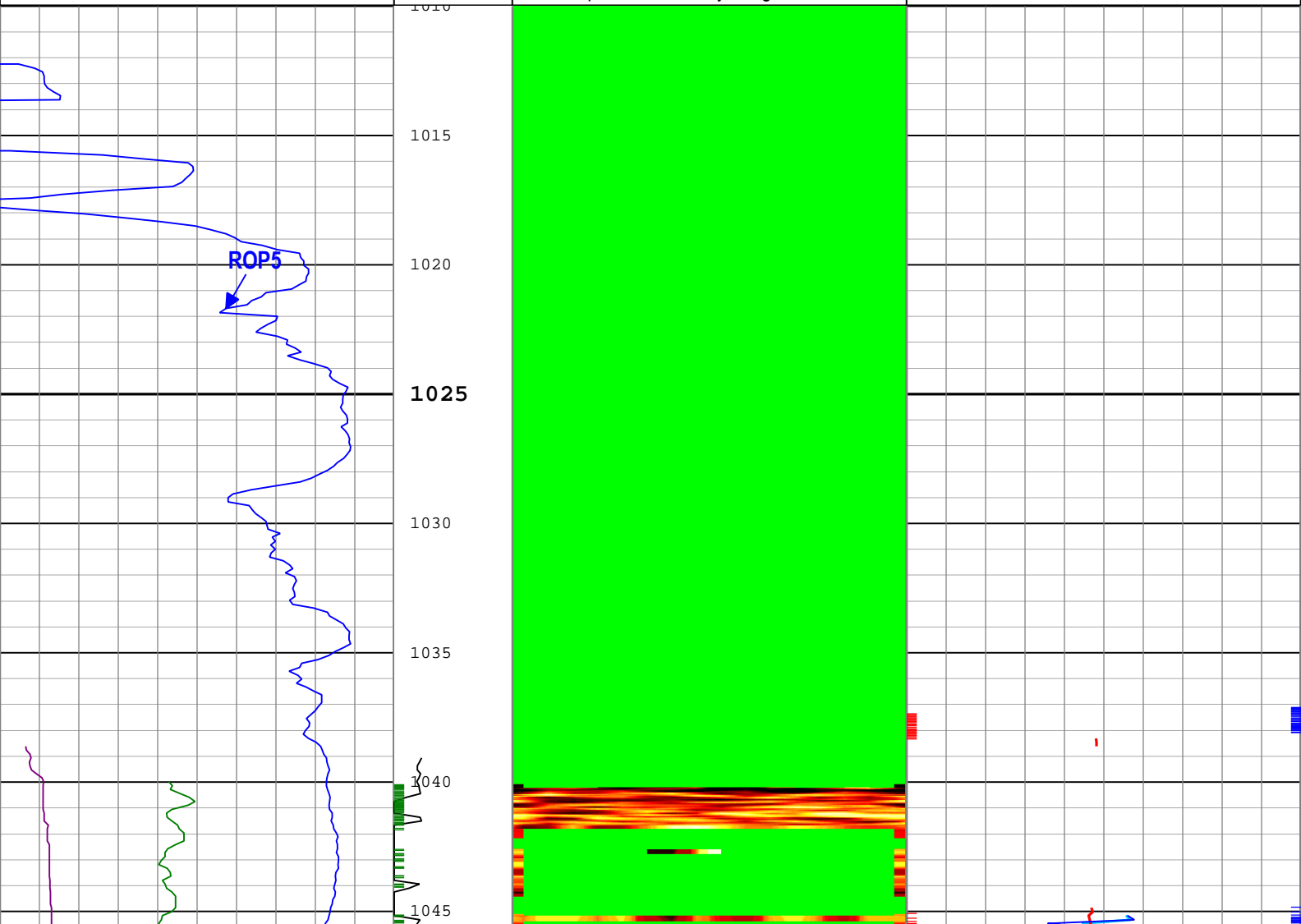
TICK\_NEU - Neutron Ticks, 0.1 ft DV6MTN RM

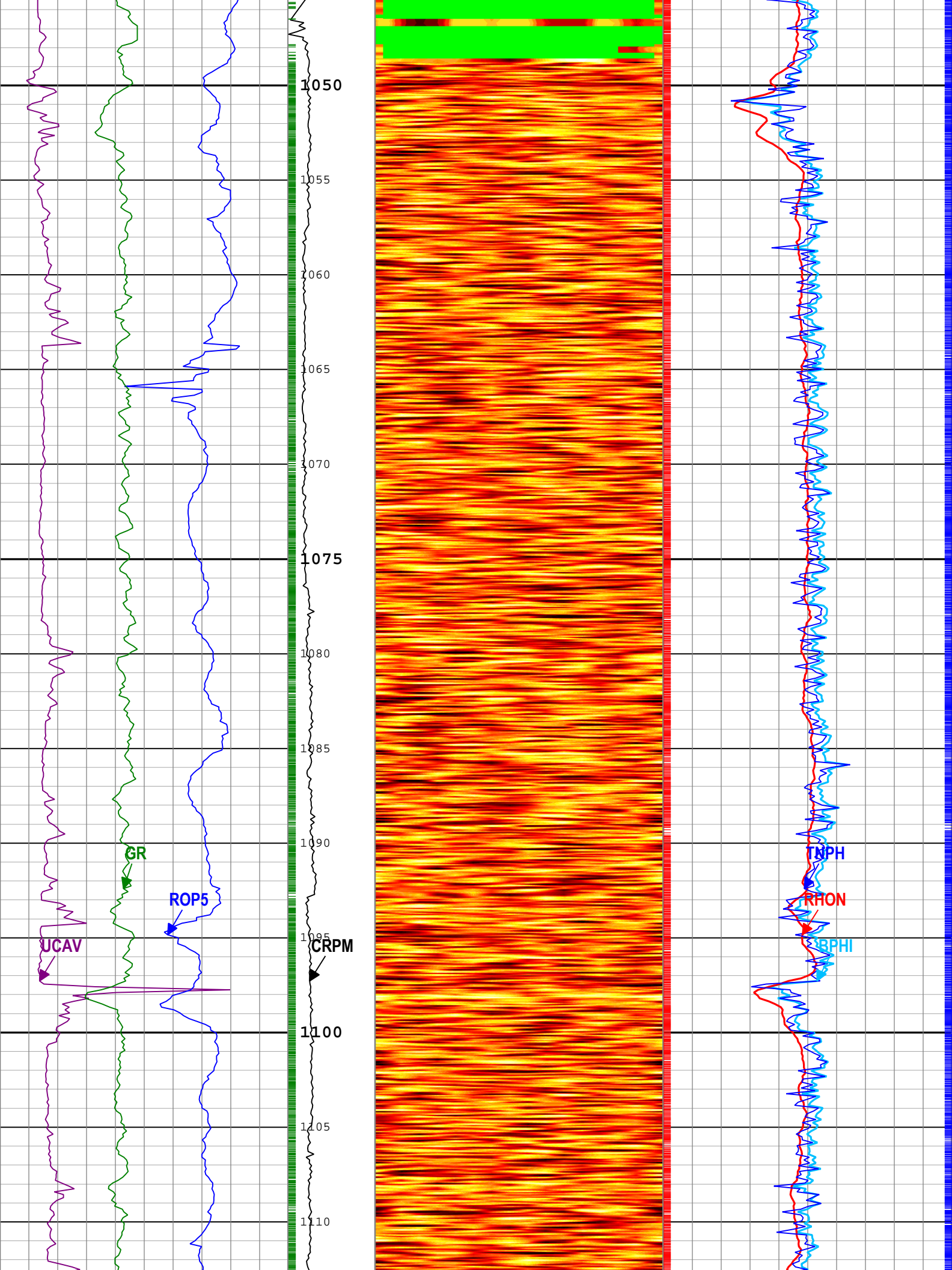
Ultrasonic Caliper Average (UCAV) DV6MTN RM		
8	in	13
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Gamma Ray (GR) DV6MTN RM		
0	gAPI	150

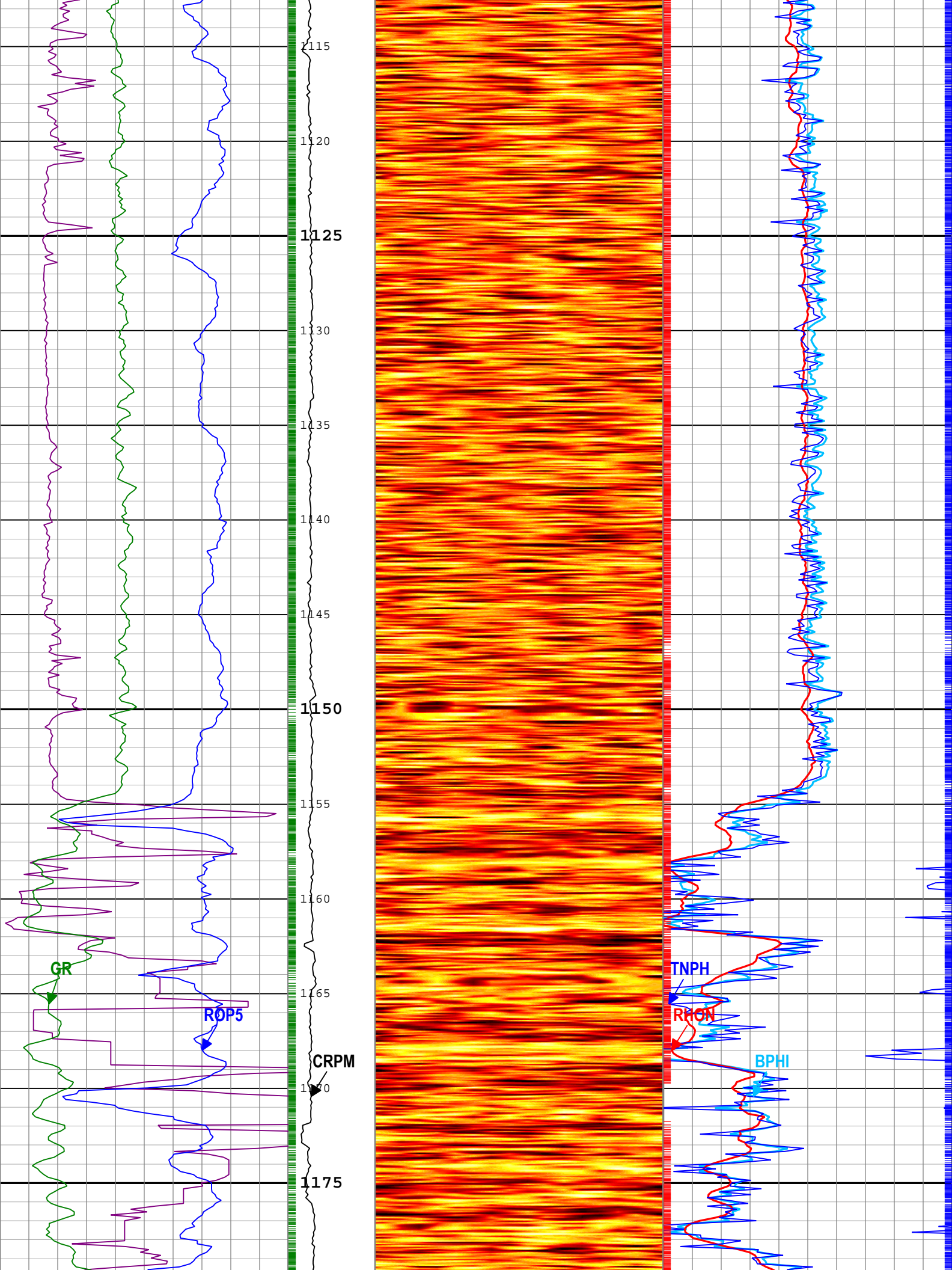
Collar Rotational Speed (CRPM) DV6MTN RM

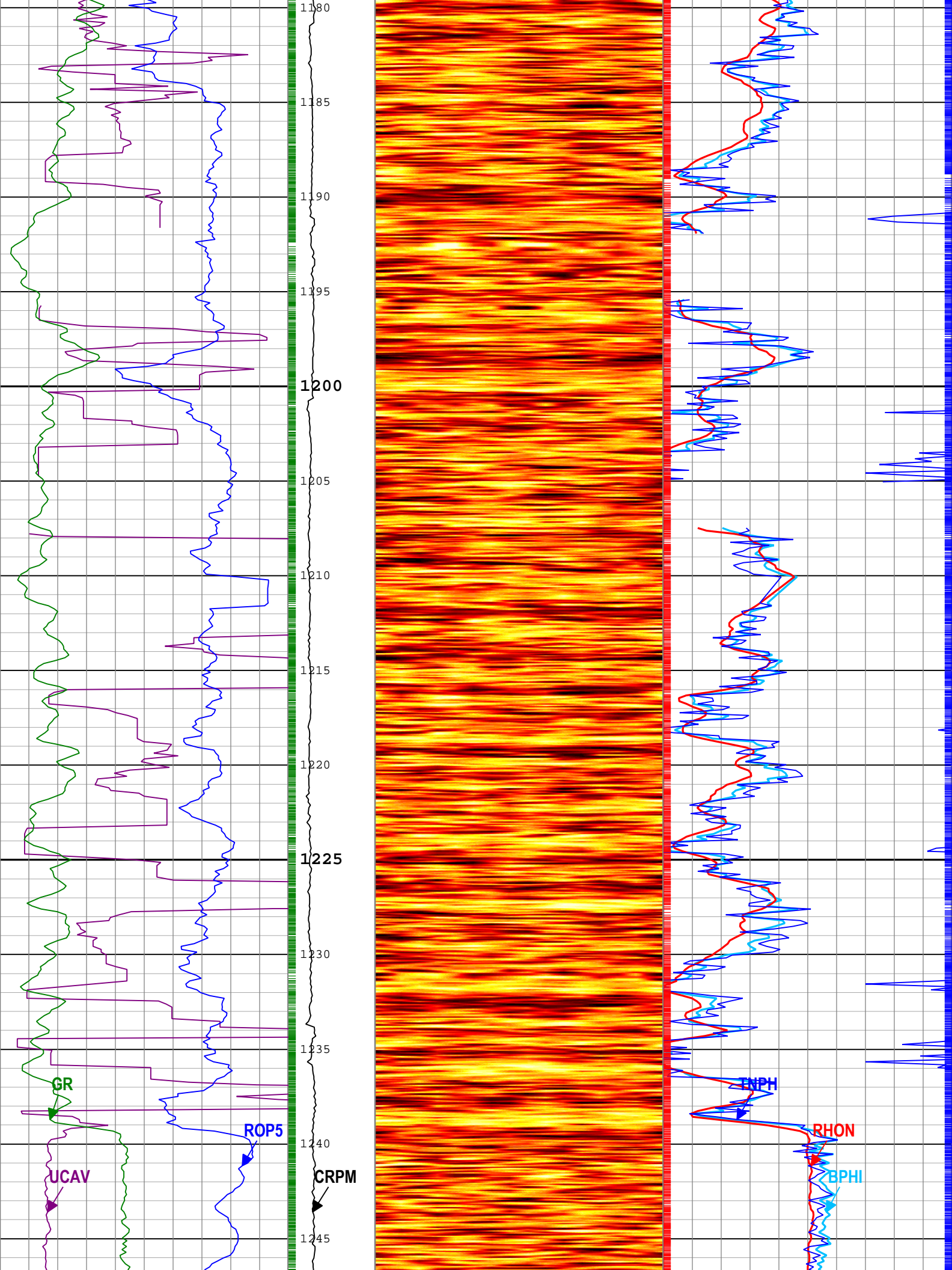


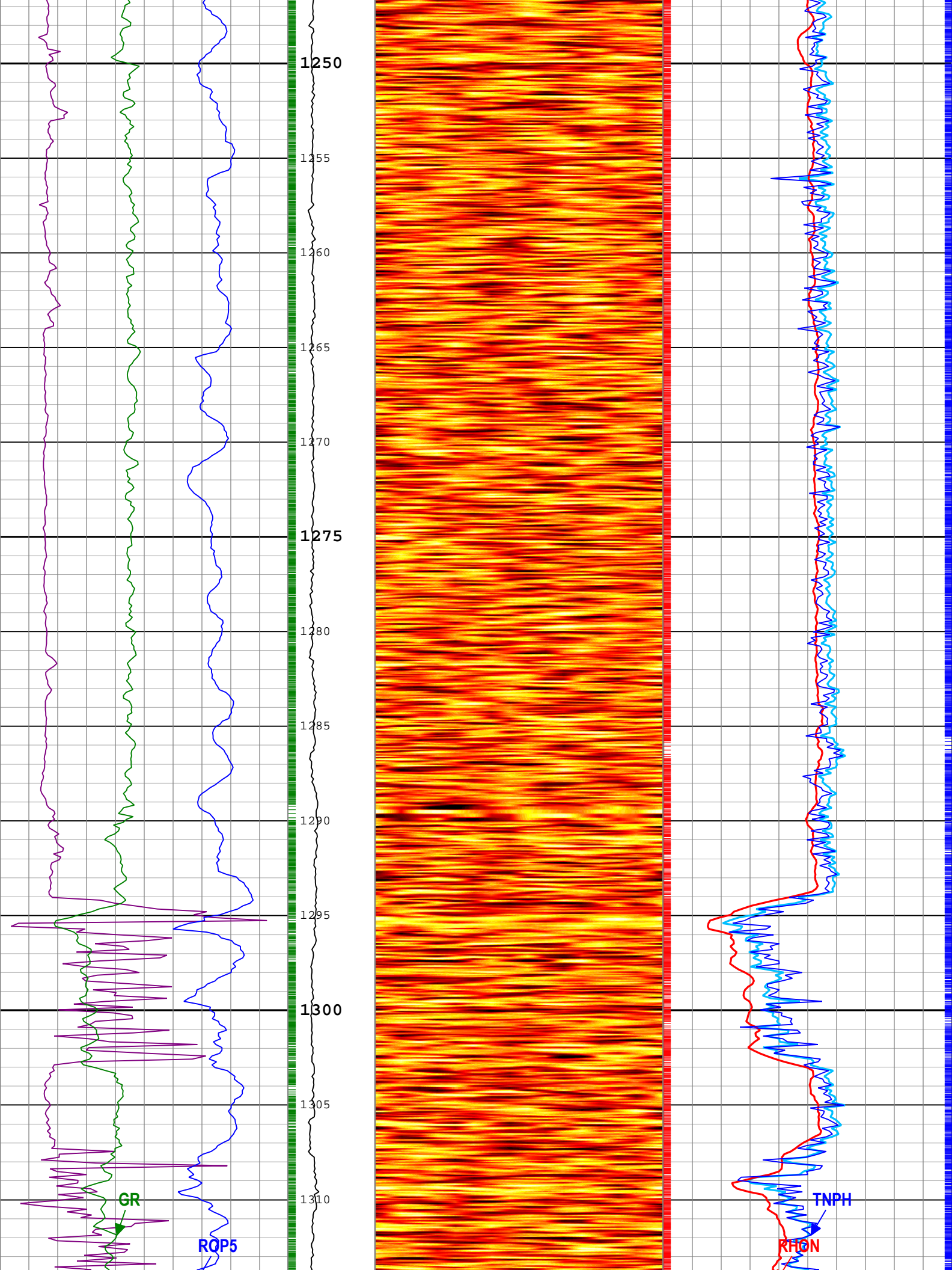
Best Thermal Neutron Porosity, Average (BPHI) DV6MTN RM		
1	m <sup>3</sup> /m <sup>3</sup>	0
Bulk Density from Neutron, Average Filtered (RHON) DV6MTN RM		
1	g/cm <sup>3</sup>	3
Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) DV6MTN RM		
1	m <sup>3</sup> /m <sup>3</sup>	0

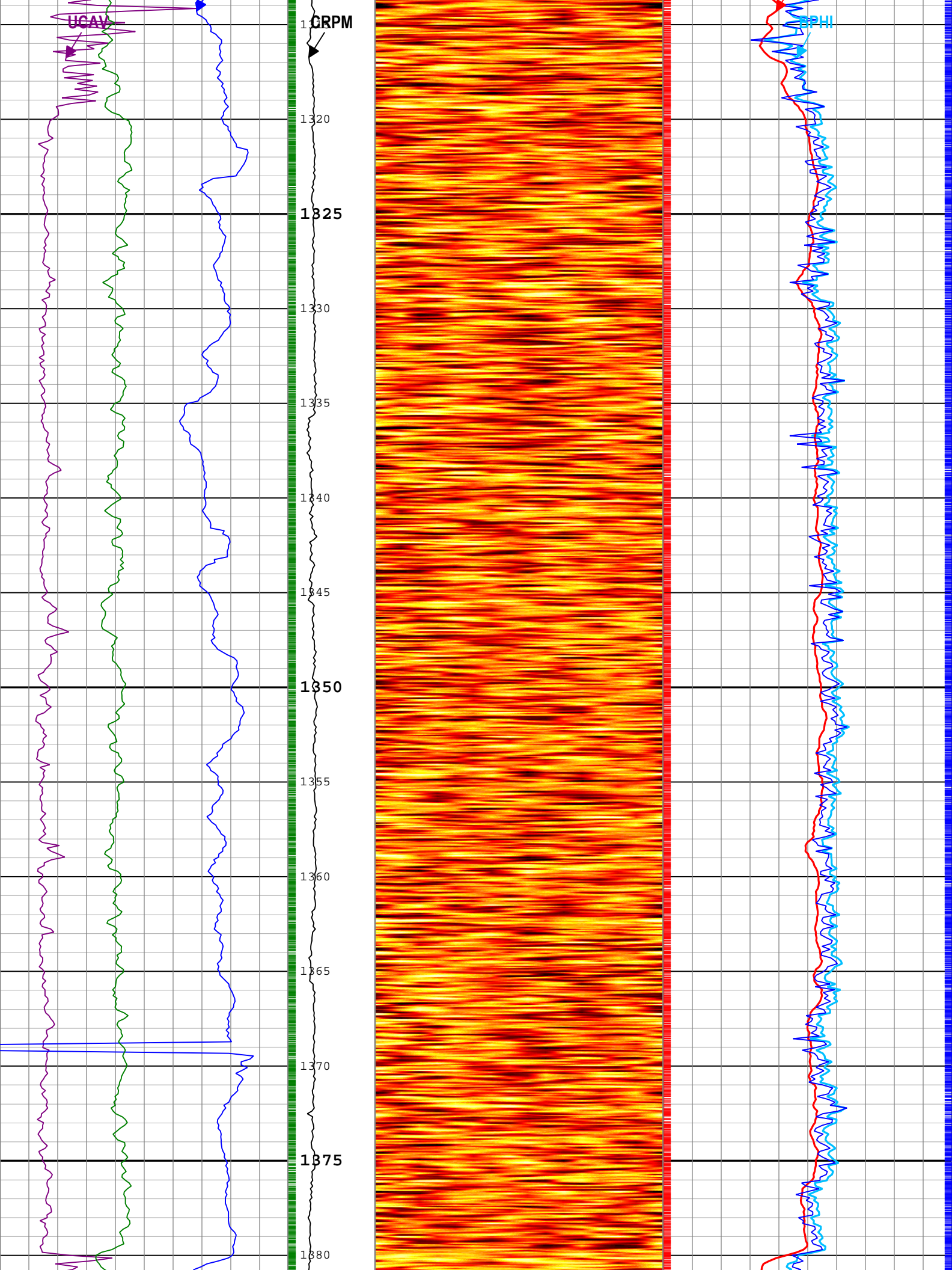


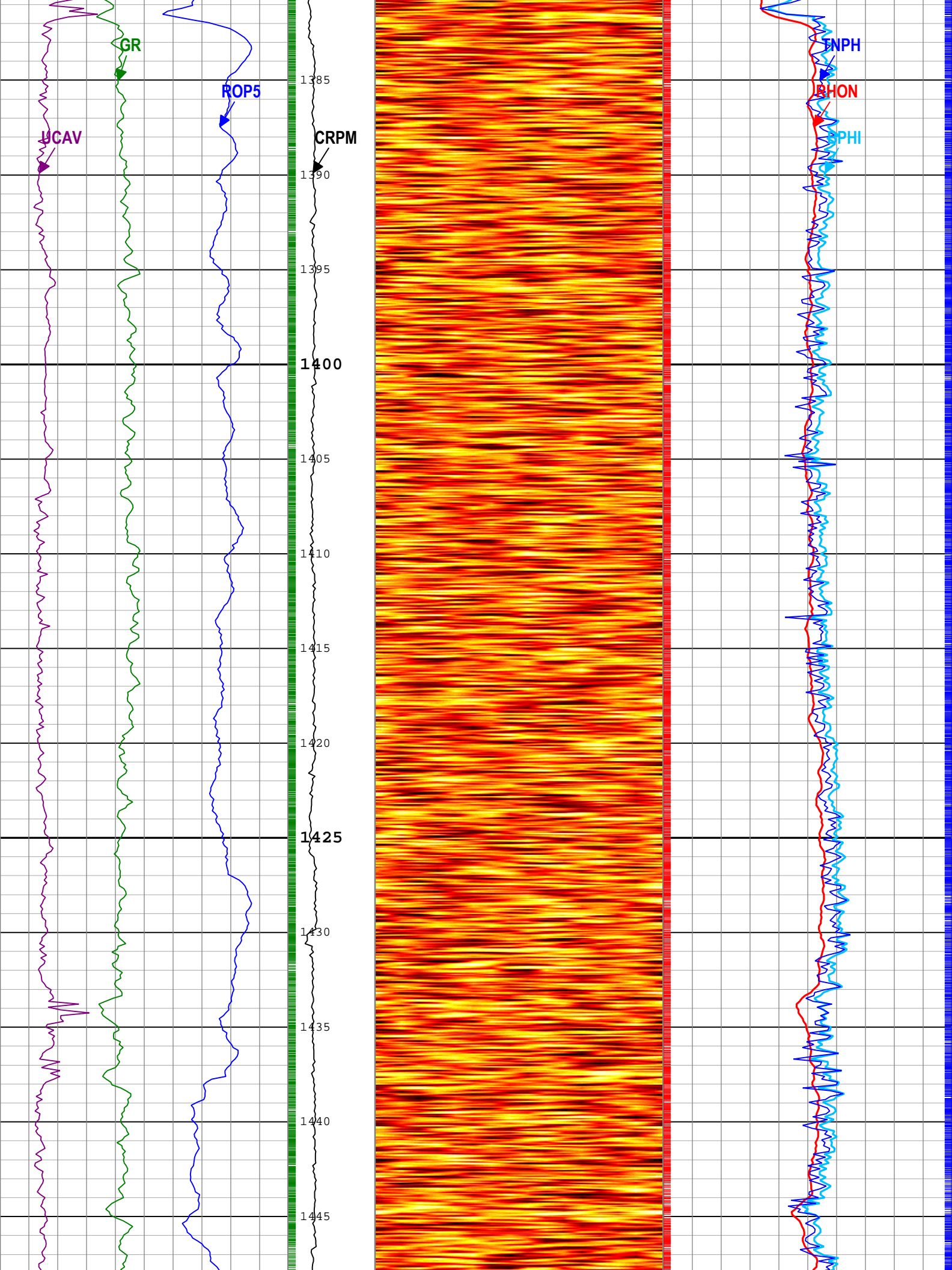




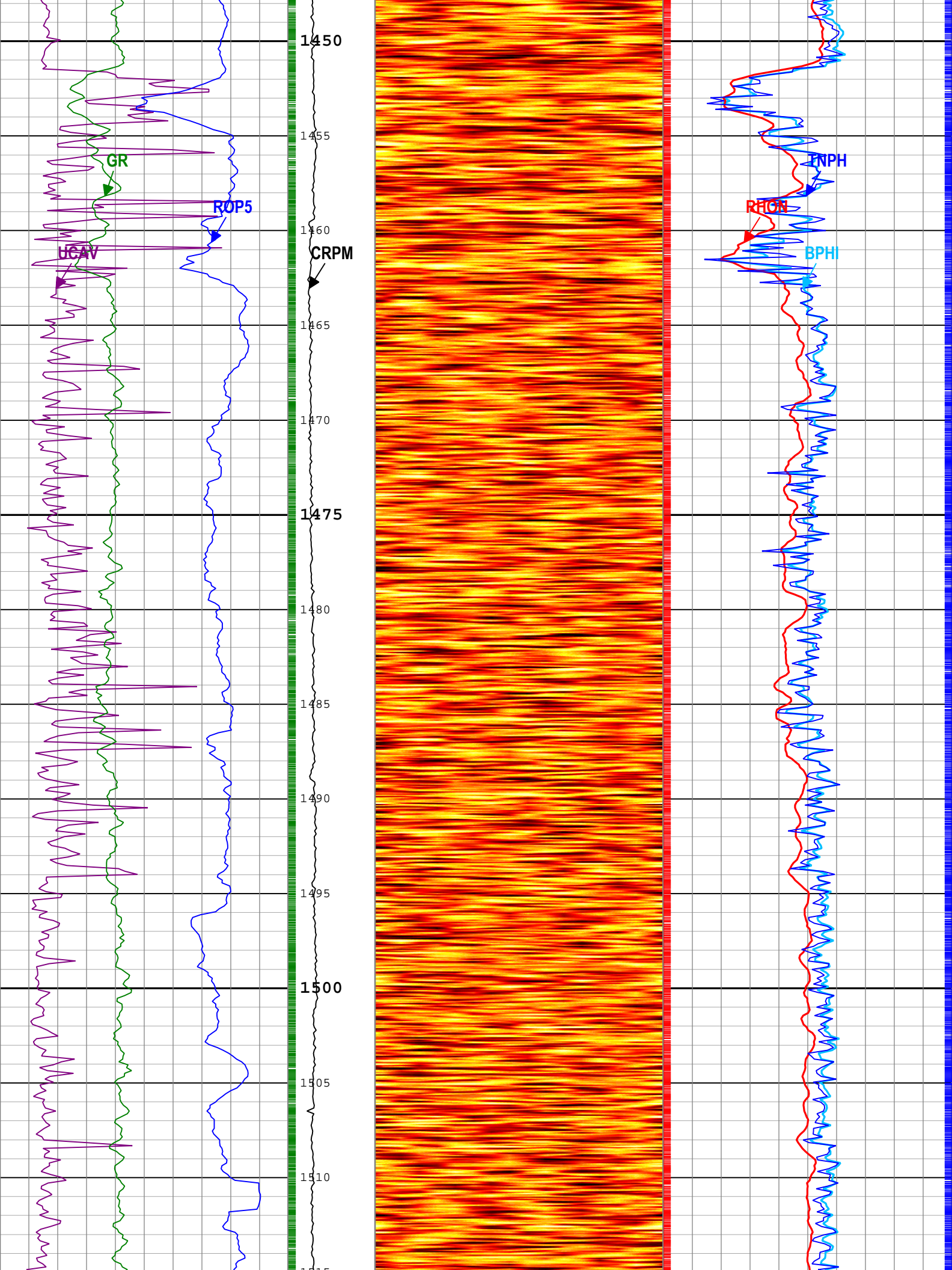


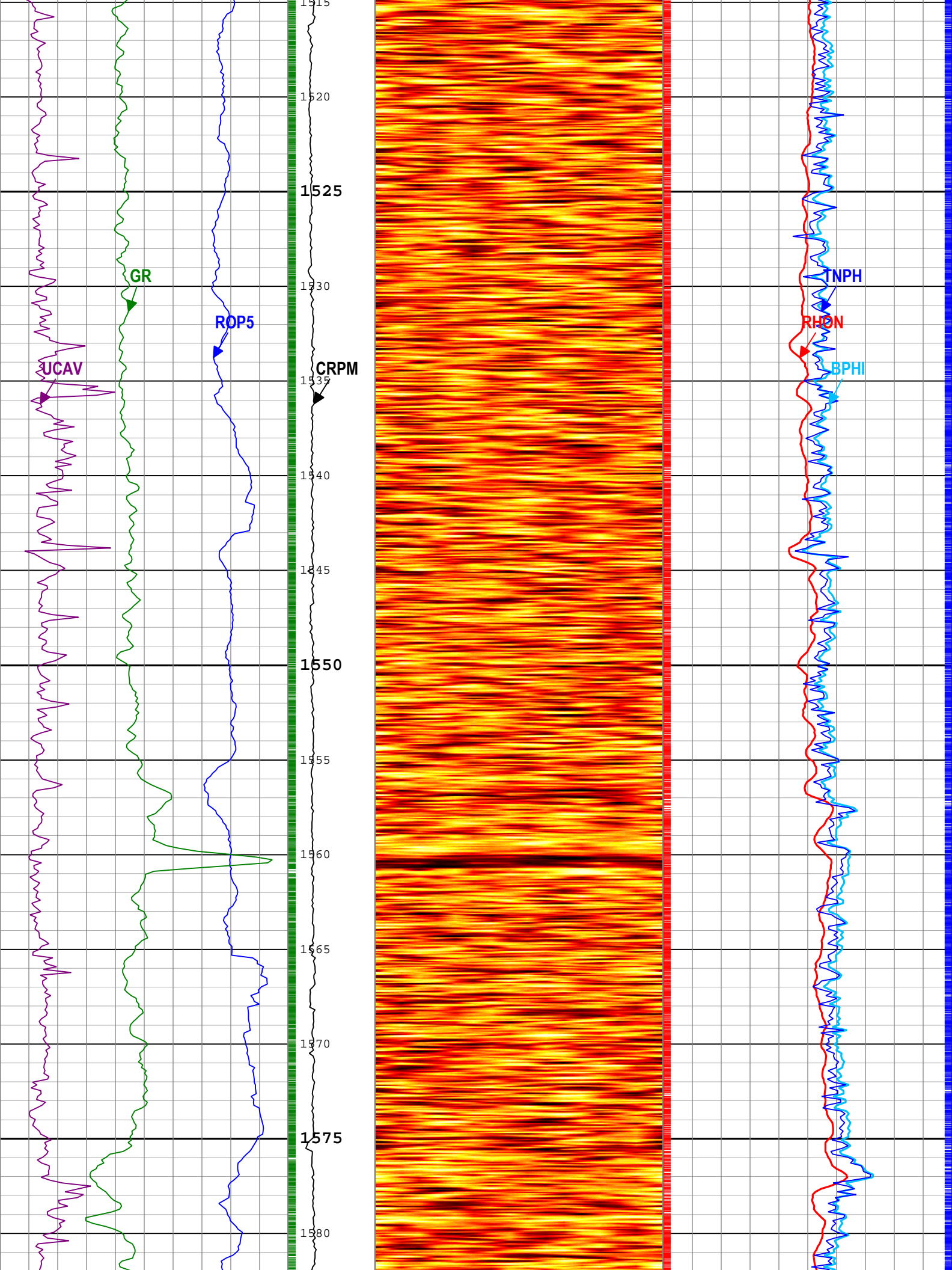


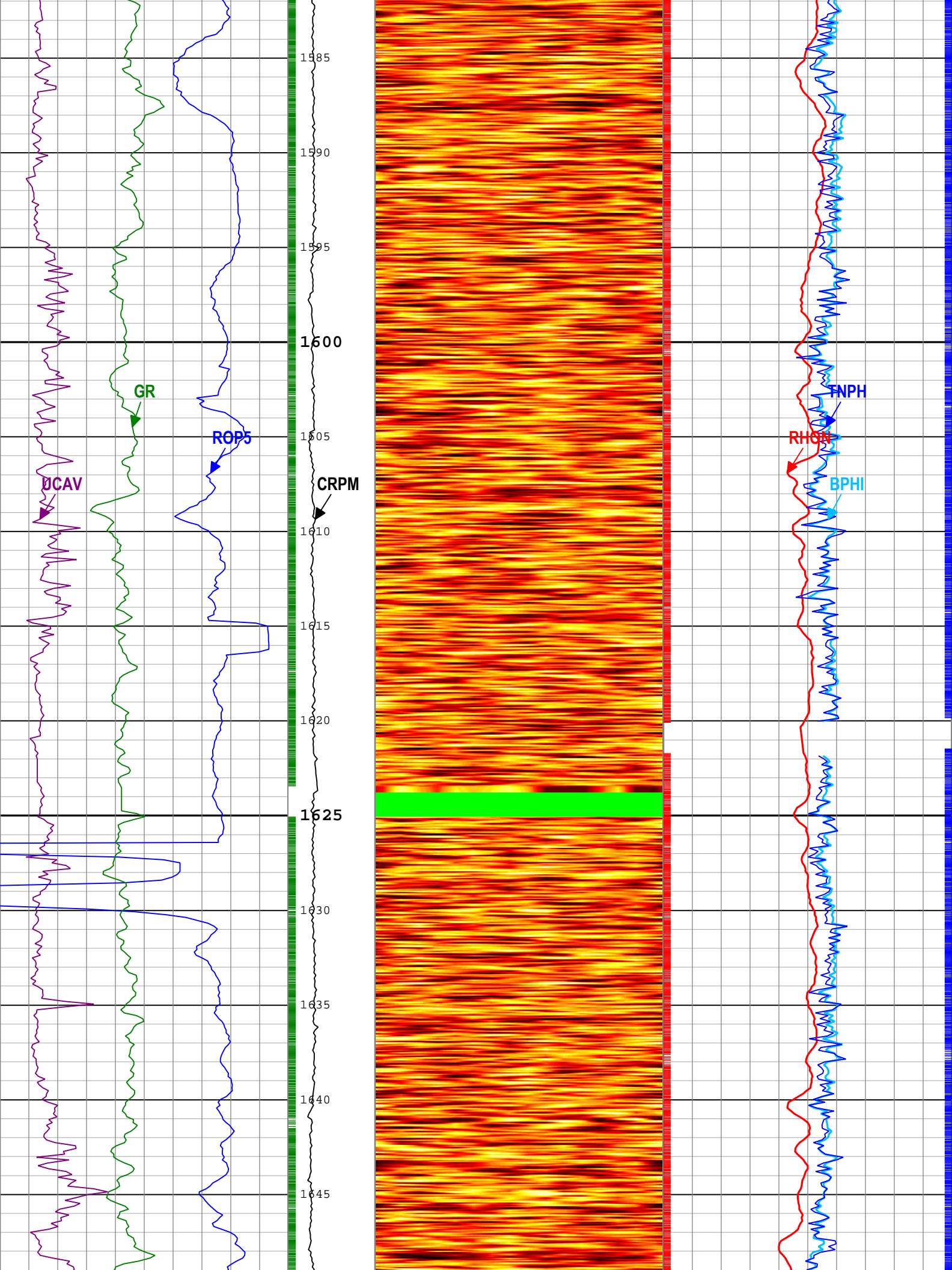


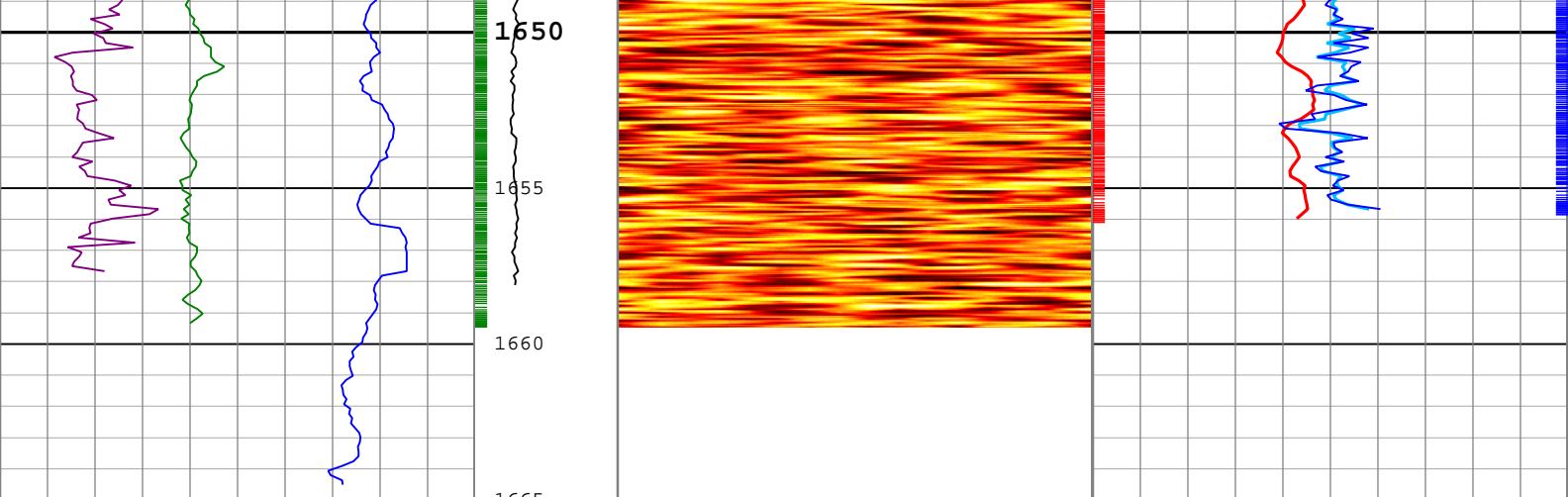






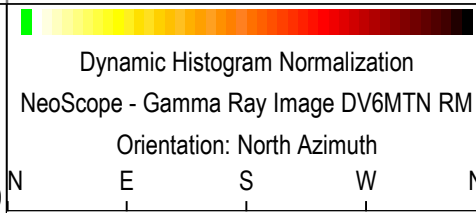






Ultrasonic Caliper Average (UCAV) DV6MTN RM		
8	in	13
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Gamma Ray (GR) DV6MTN RM		
0	gAPI	150

Collar Rotational Speed (CRPM) DV6MTN RM	0	c/min	200
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Best Thermal Neutron Porosity, Average (BPHI) DV6MTN RM		
1	m3/m3	0
Bulk Density from Neutron, Average Filtered (RHON) DV6MTN RM		
1	g/cm3	3
Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) DV6MTN RM		
1	m3/m3	0

TICK\_NEU - Neutron Ticks, 0.1 ft DV6MTN RM

TICK\_RHON - RHON Tick Marks DV6MTN RM

TICK\_GR - Gamma Ray Samples DV6MTN RM

Description: NeoScope Natural Gamma Ray Format: Log ( FINAL ECO LOG 2 ) Index Scale: 1:240 Index Unit: m Index Type: Measured Depth  
 Creation Date: 30-Dec-2017 00:52:56

## Channel Processing Parameters

### Run 1: Parameters

Parameter	Description	Tool	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	0	%
BHT	Bottom Hole Temperature	Borehole	7	degC
BS	Bit Size	DNMSESSION	8.5	in
BSAL	Borehole Salinity	Borehole	35000	ppm
CALI_SEL_GR	Hole-Size Correction Source for Gamma-Ray Processing	DV6MTN	GCSE	
CALI_SEL_NEU	Hole-Size Correction Source for Neutron Processing	DV6MTN	GCSE	
CALI_SEL_NGD	Hole-Size Correction Source for Neutron Gamma Density Processing	DV6MTN	Ultrasonic	
CHI	Caliper High Limit from BS (RM)	DV6MTN	10	in
CLO	Caliper Low Limit from BS (RM)	DV6MTN	-5	in
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	8.6	lbm/gal
DFT_CATEGORY	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	180	us/ft
DTMD_DH	Delta-T for Mud Downhole	DV6MTN	180	us/ft
FSAL	Formation Salinity	Borehole	6126.75	ppm
GCSE_RM	Generalized Caliper Selection for DnM recorded mode	Borehole	BS	
GR_O2COR_OPT	Enable Gamma Ray Oxygen Activation Correction	DV6MTN	Yes	
GTSE_RM	Generalized Temperature Selection for Recorded Mode	Borehole	DHAT(RM)	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	

NEU_FTUBE_OPT	Far Thermal Tube Selection	DV6MTN	Both	
NEU_NGDC_OPT	Neutron Density Correction Option	DV6MTN	Neutron	
OACF	O2 Activation Correction Factor (RM)	DV6MTN	8	
PRES_SEL_NEU	Pressure Correction Source for Neutron Processing	DV6MTN	Annular	
STOH	Top of Hole Sector	DV6MTN	SECTOR_0	
TEMP_SEL_NEU	Temperature Correction Source for Neutron Processing	DV6MTN	GTSE	

## Tool Control Parameters

### Run 1: Parameters

Parameter	Description	Tool	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom	DNMSESSION	0.3	m

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**Well:** U1519A  
**Field:** HSM-01A  
**Rig Name:** Joides Resolution  
**Expedition:** 372  
**Country:** New Zealand



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Recorded Mode Data