

EcoScope Gamma Ray Service

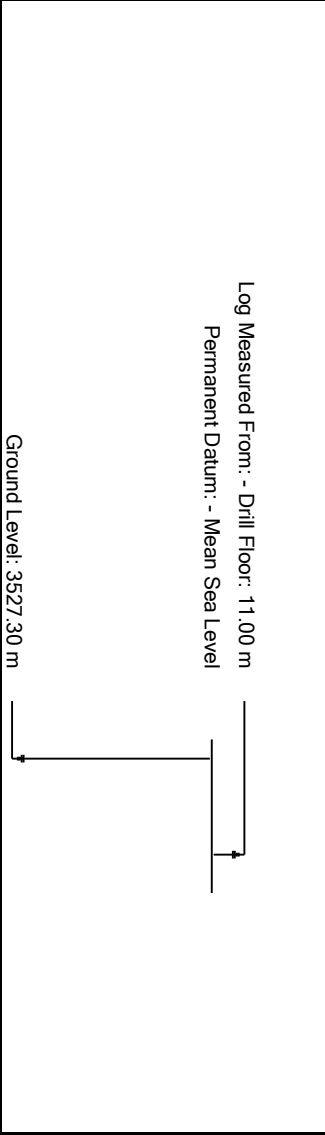
1:240 Measured Depth

Recorded Mode Data



Company: IODP
Well: U1520B
Field: HSM-05A
Rig Name: Joides Resolution
Expedition: 372
Country: New Zealand

Latitude: 38° 58' 9.84" S
Longitude: 178° 7' 56.1" E
Block: EXP372
FL1:
FL2:



Acquisition Dates:	27-Dec-2017 -- 30-Dec-2017	Other Services:
Log Interval:	3530.00(m) -- 4288.00(m)	SonicScope
Index Types:	Measured Depth	proVISION Plus
Index Scales:	1:240	geoVISION Images
Depth Source:	Driller's Depth	StethoScope
Depth Sensor:	DES	
Print Type:	Final	
Spud Date:	29-Dec-2017	

Disclaimer

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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	3499.71 m	4288.41 m	27-Dec-2017 3:17:55 AM	30-Dec-2017 5:41:59 PM	Yes

All depths are referenced to toolstring zero

Log

Company: IODP Well: U1520B

Run 1: Drilling: S011

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

Creation Date: 31-Dec-2017 19:29:48

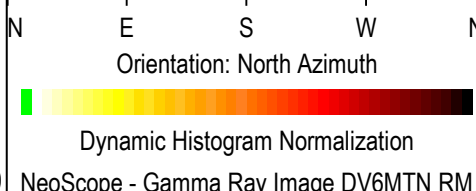
TICK_GR - Gamma Ray Samples DV6MTN RM

TICK_RHON - RHON Tick Marks DV6MTN RM

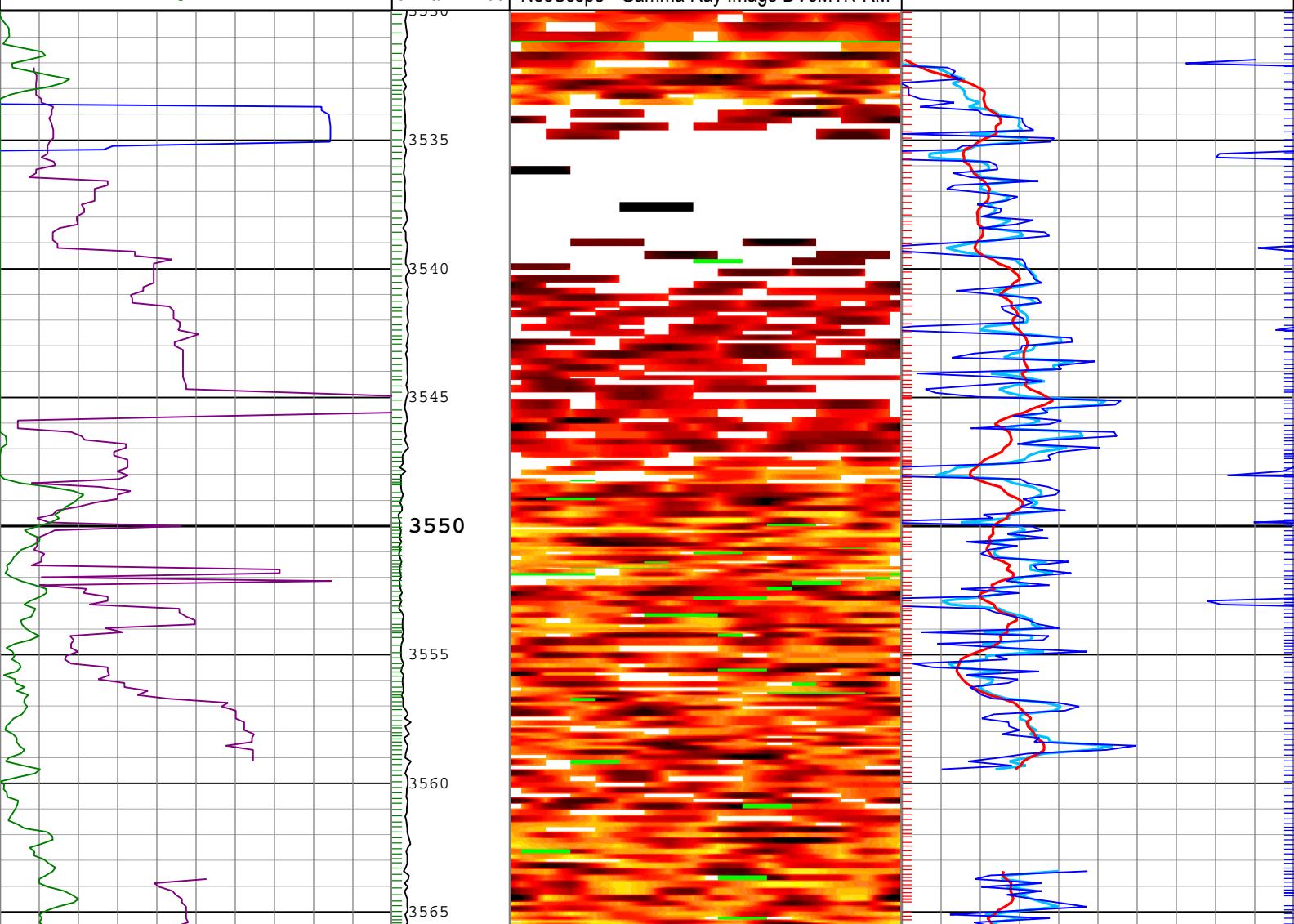
TICK_NEU - Neutron Ticks, 0.1 ft DV6MTN RM

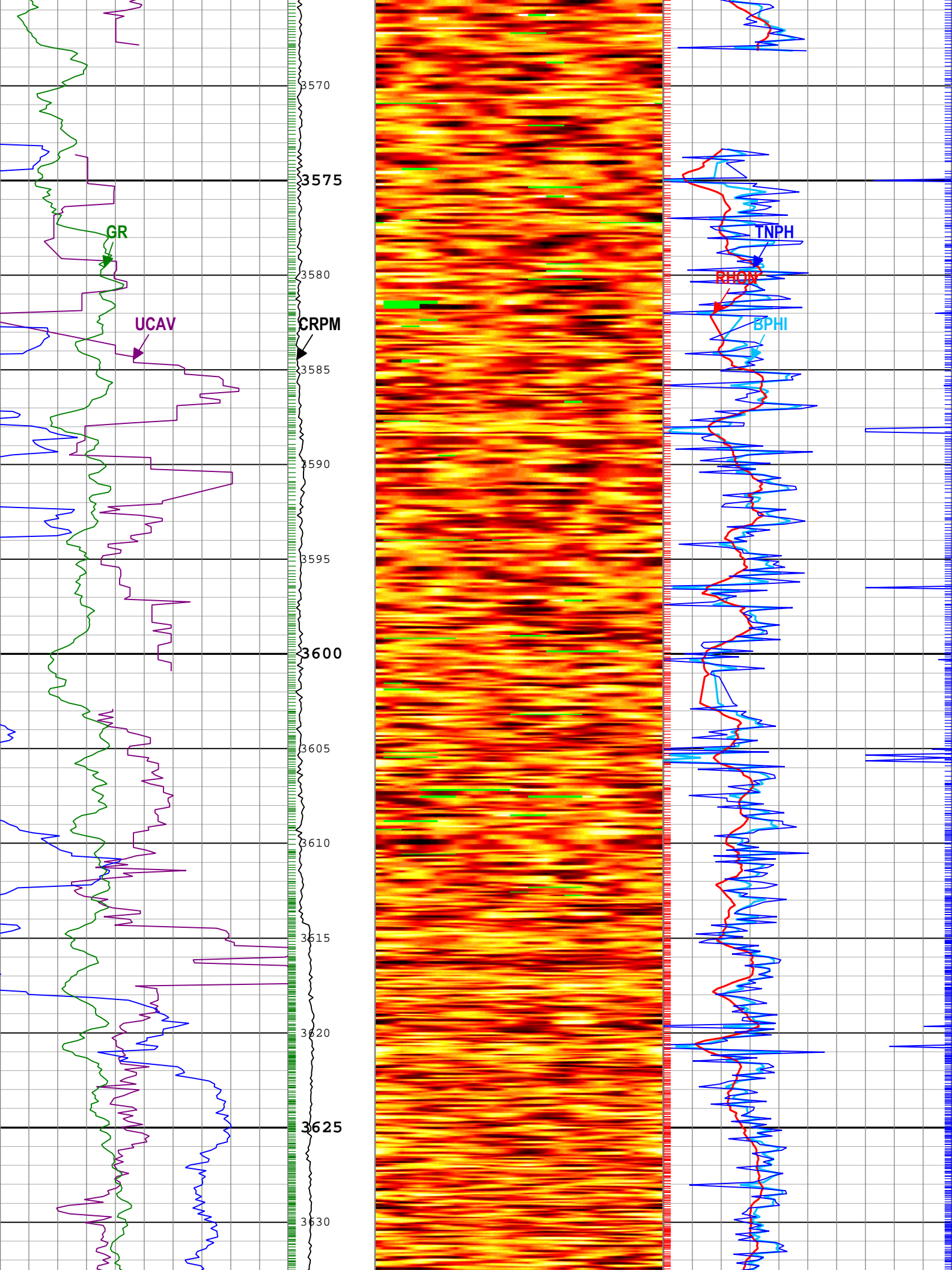
Ultrasonic Caliper Average (UCAV) DV6MTN RM		
8	in	13
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Gamma Ray (GR) DV6MTN RM		
0	gAPI	150

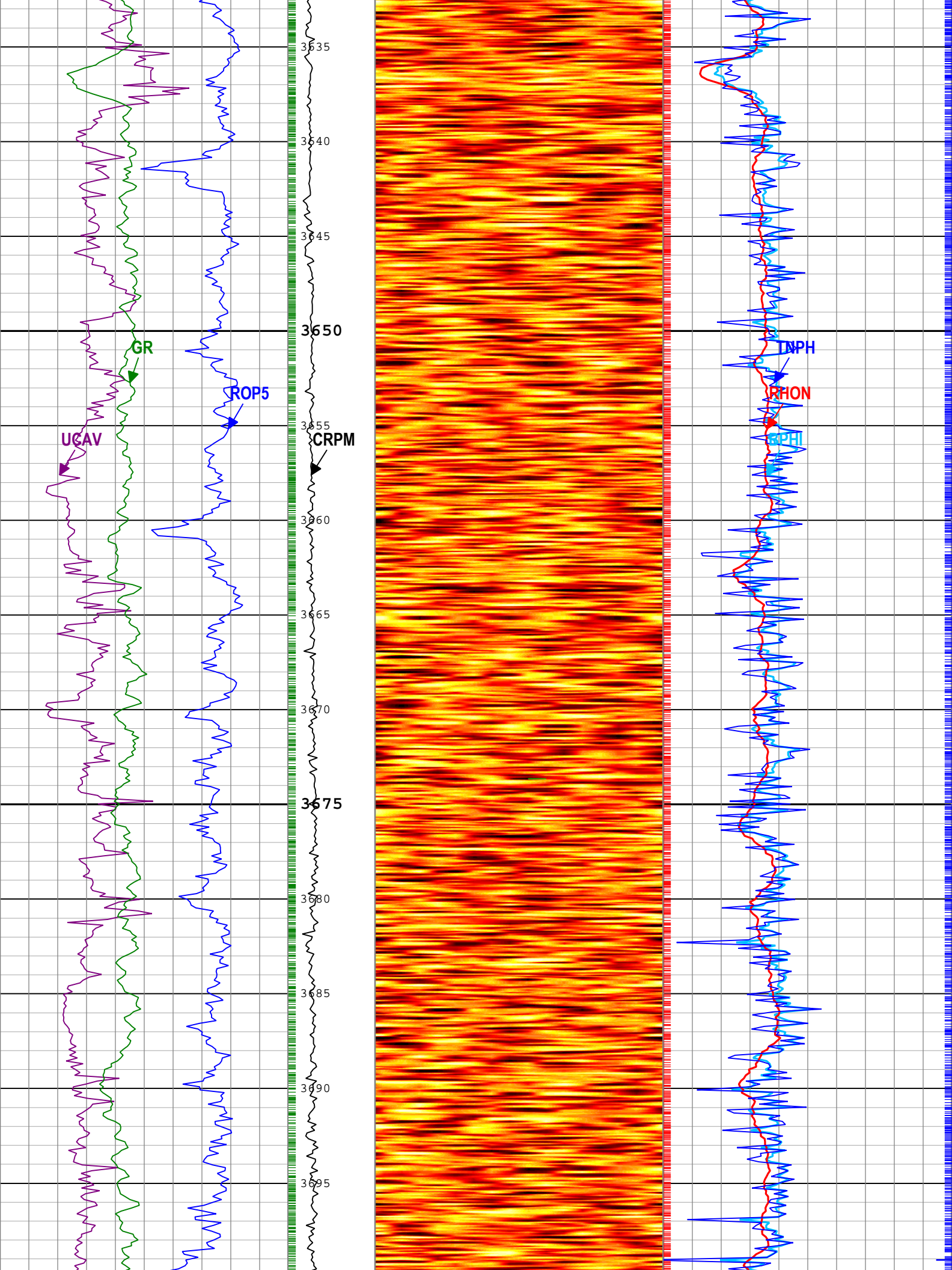
Collar Rotational Speed (CRPM) DV6MTN RM
0 c/min 200

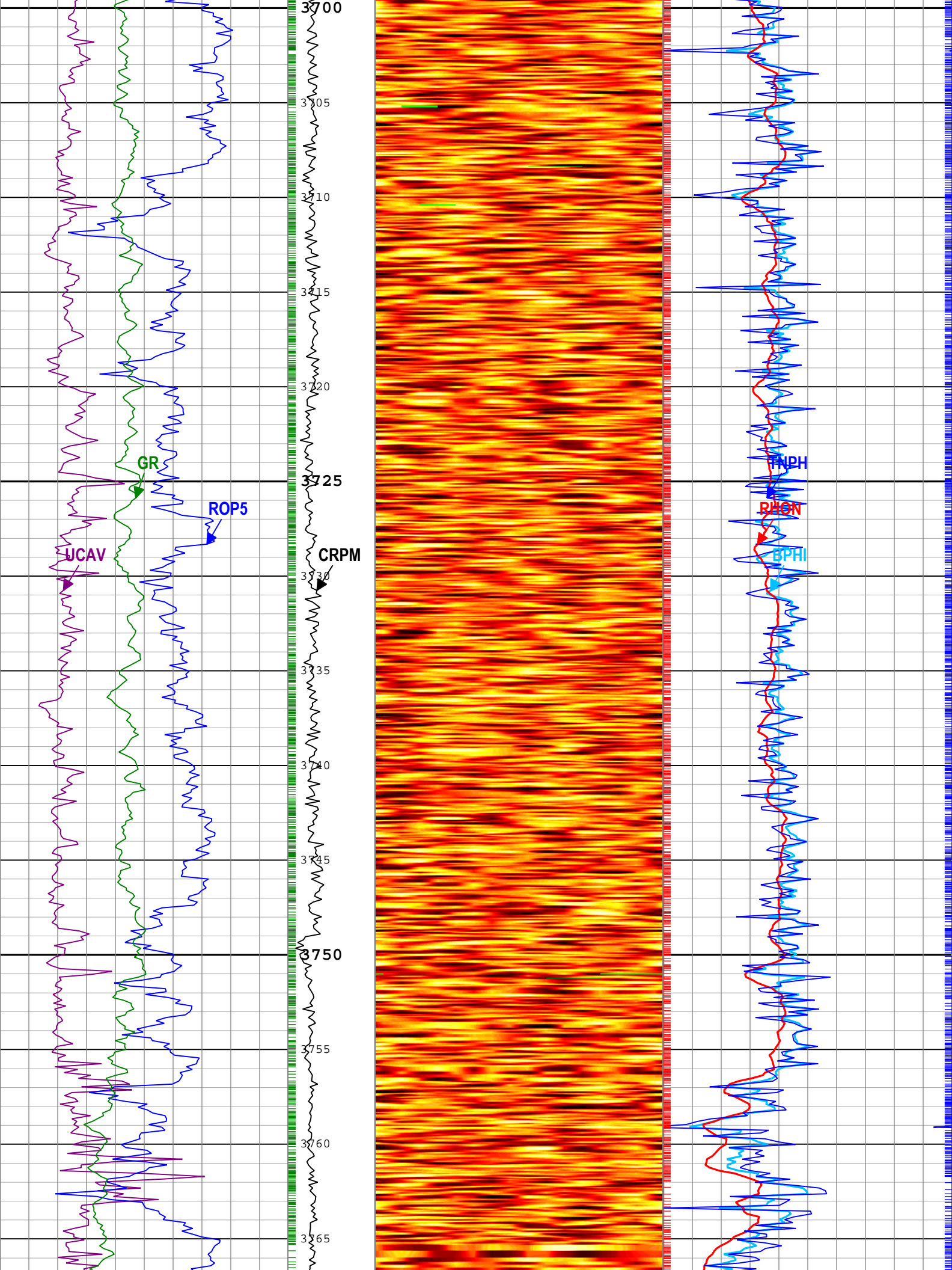


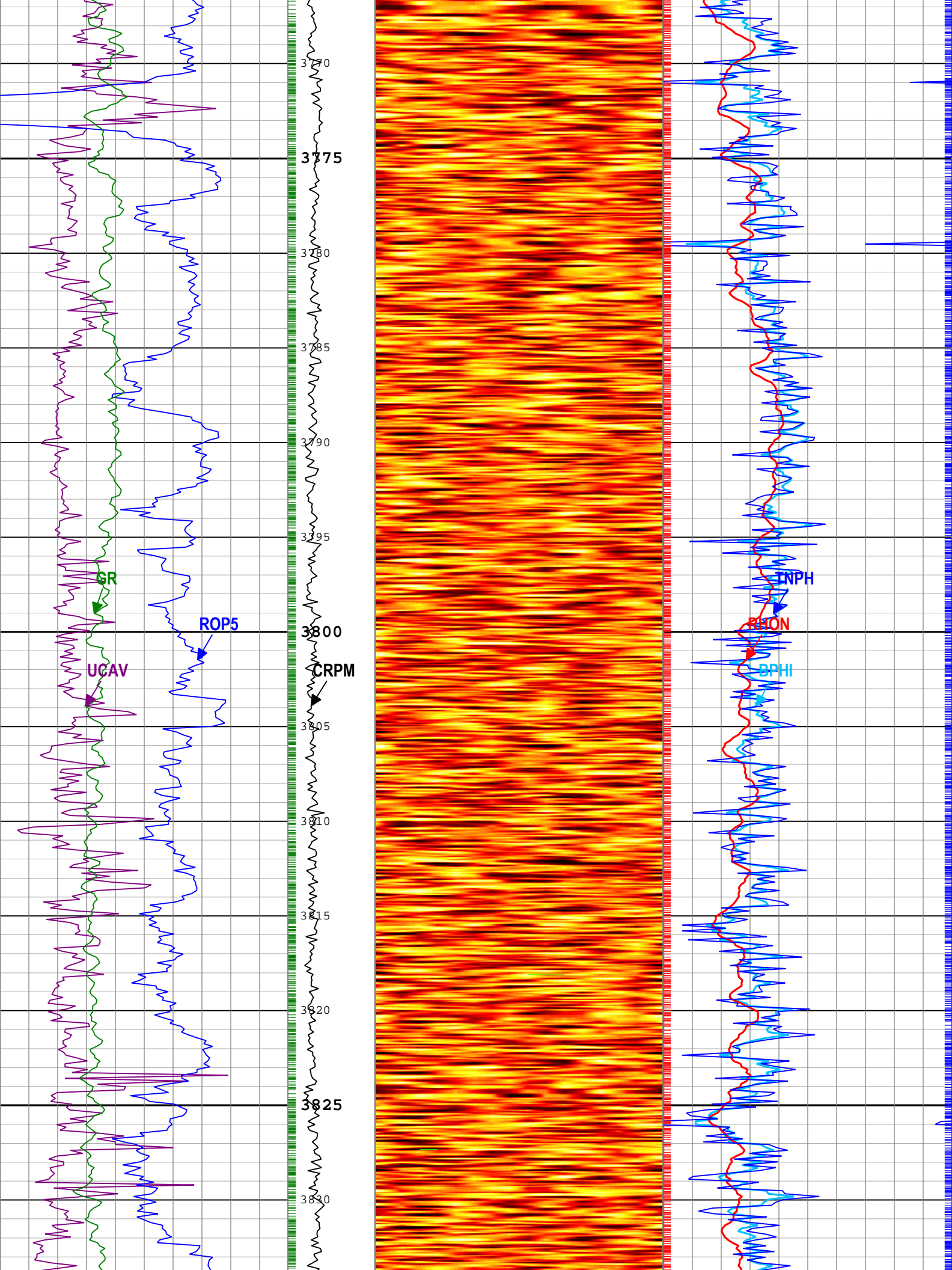
Best Thermal Neutron Porosity, Average (BPHI) DV6MTN RM		
1	m3/m3	0
Bulk Density from Neutron, Average Filtered (RHON) DV6MTN RM		
1	g/cm3	3
Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) DV6MTN RM		
1	m3/m3	0

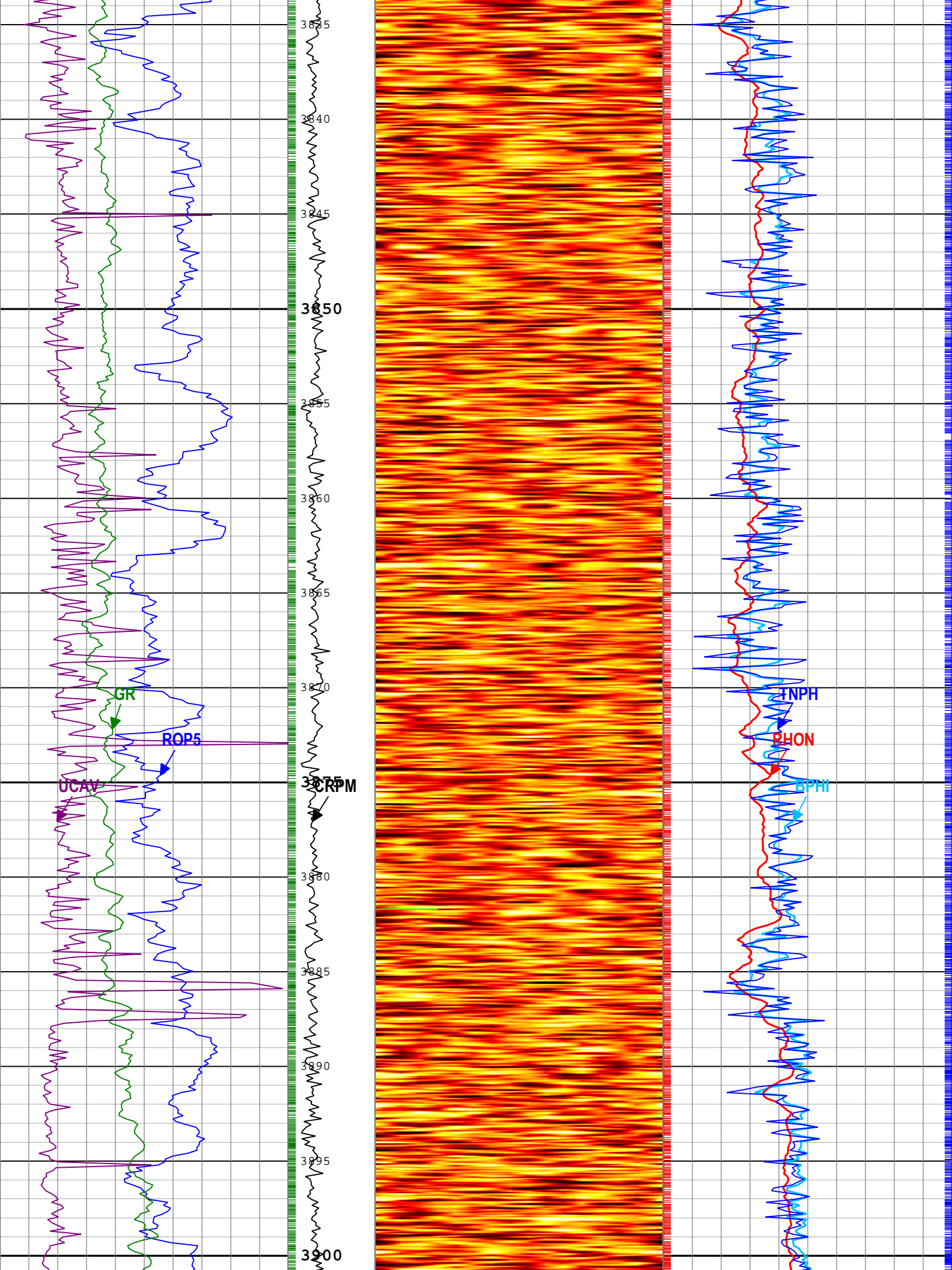


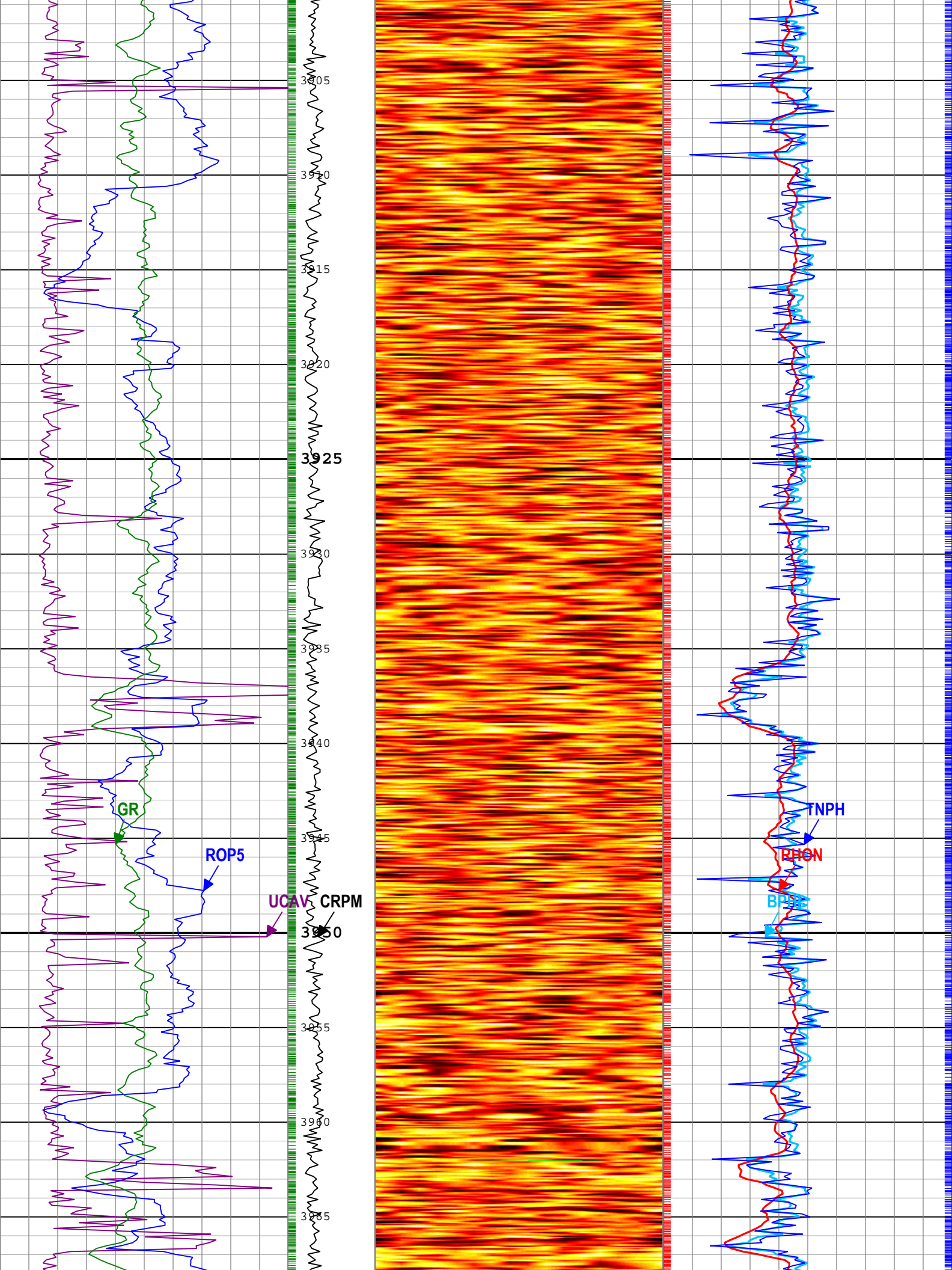


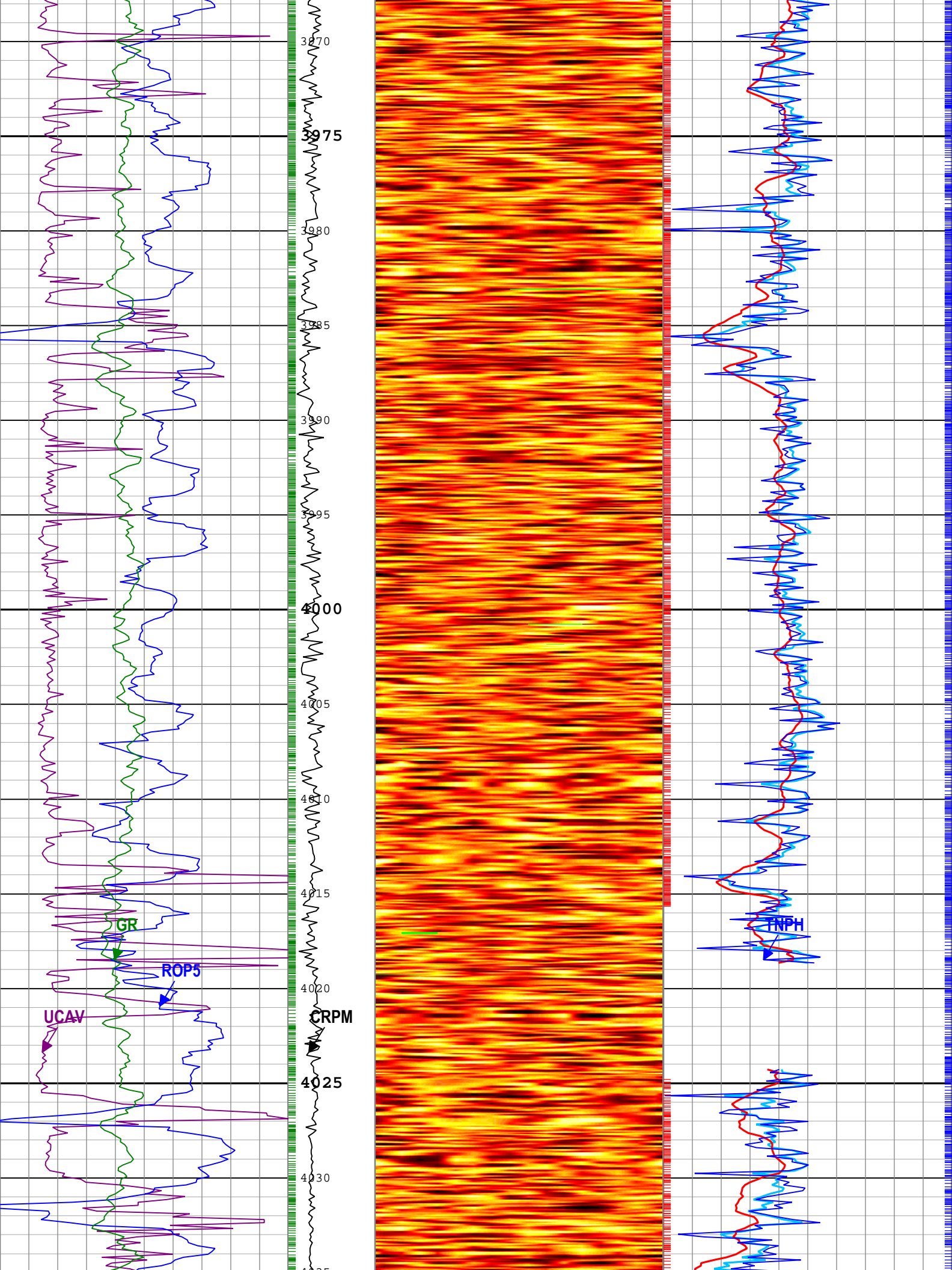


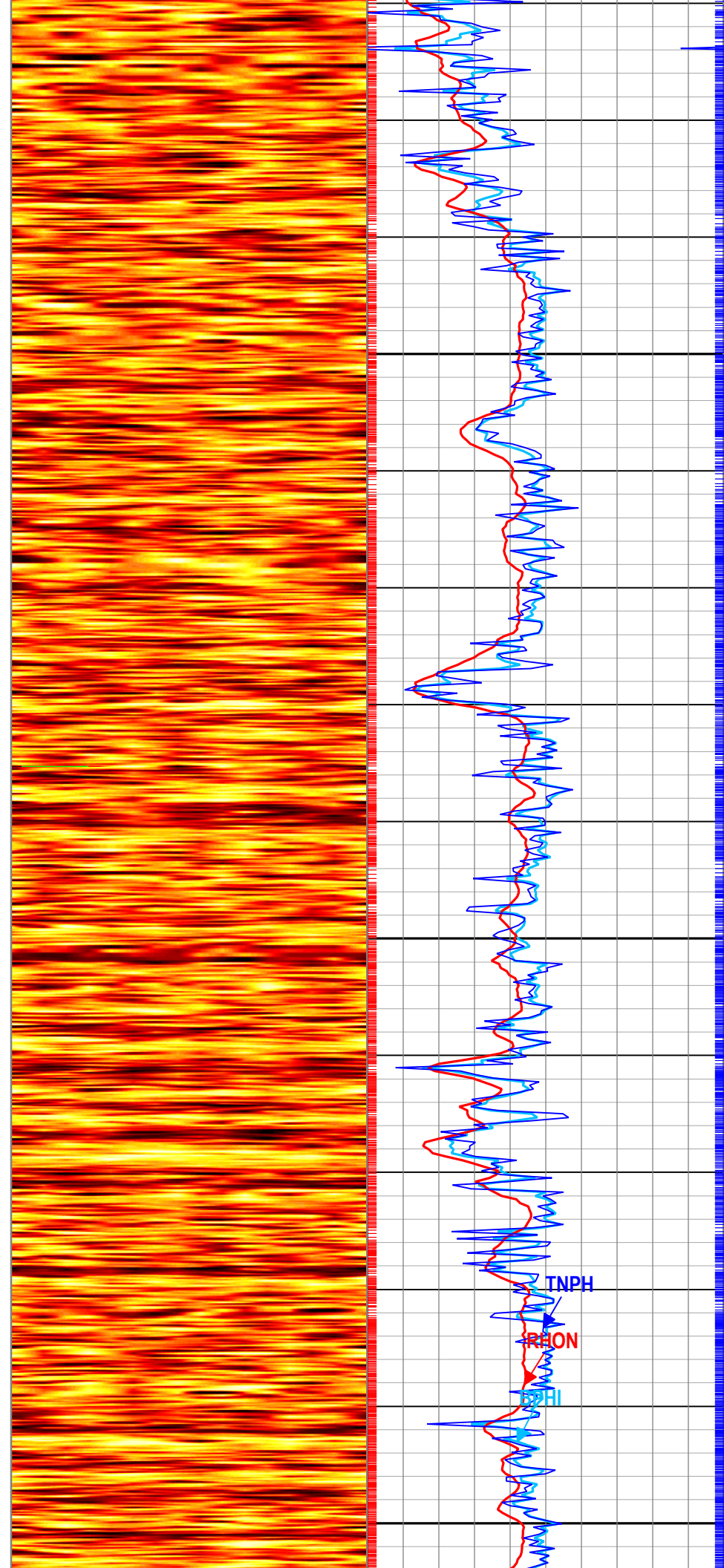
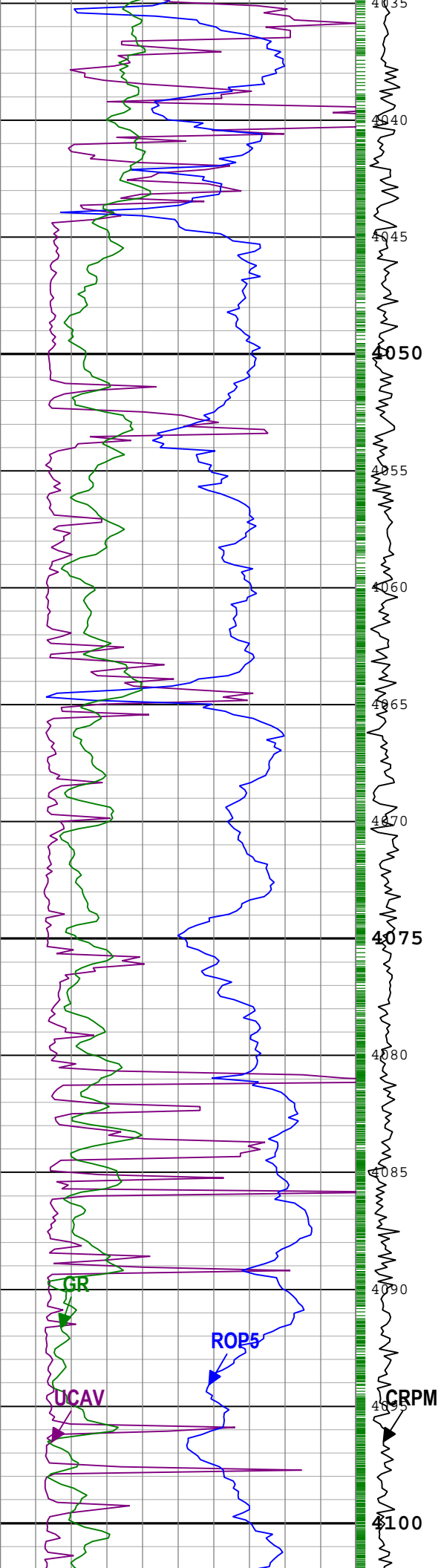


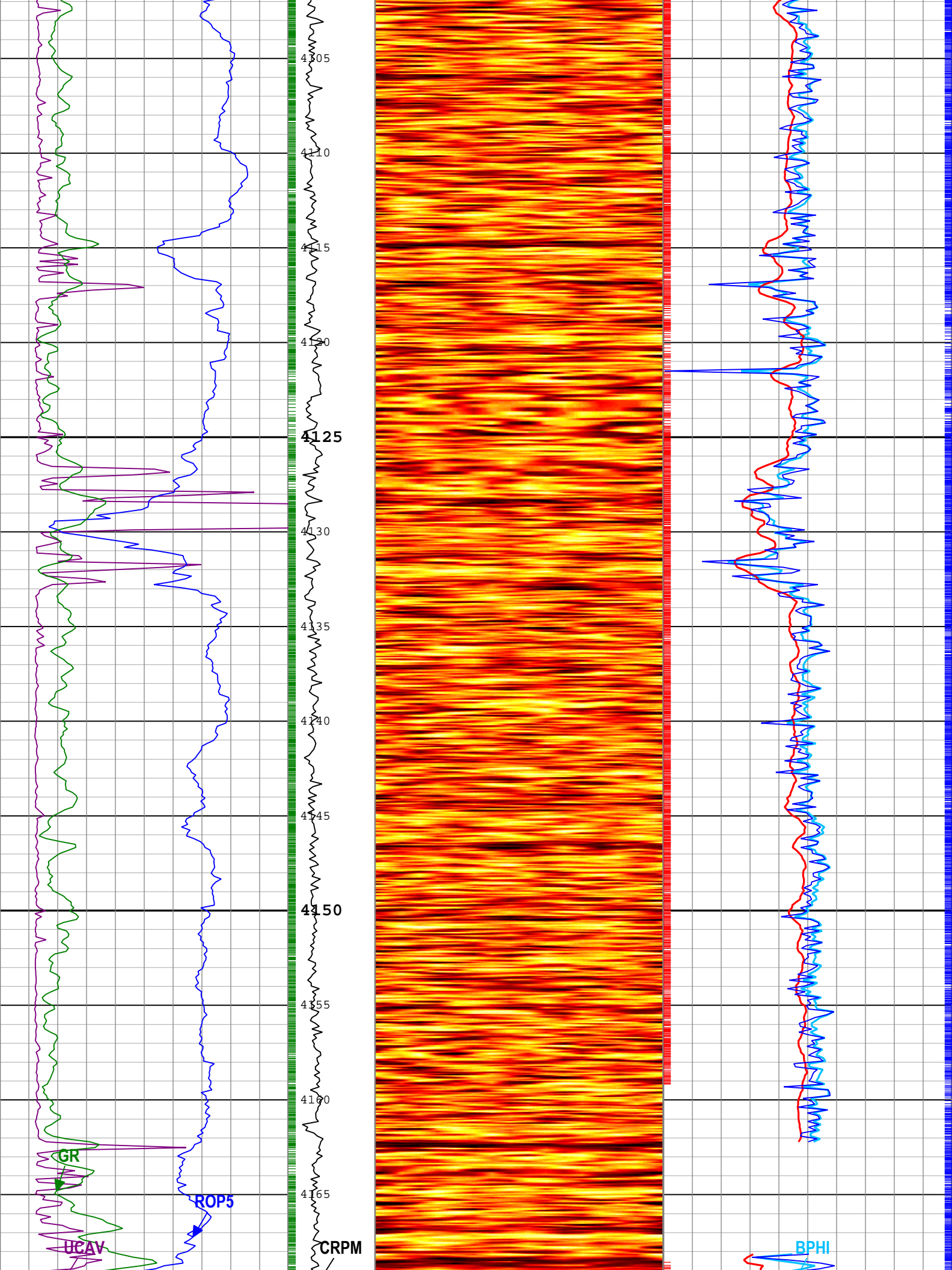


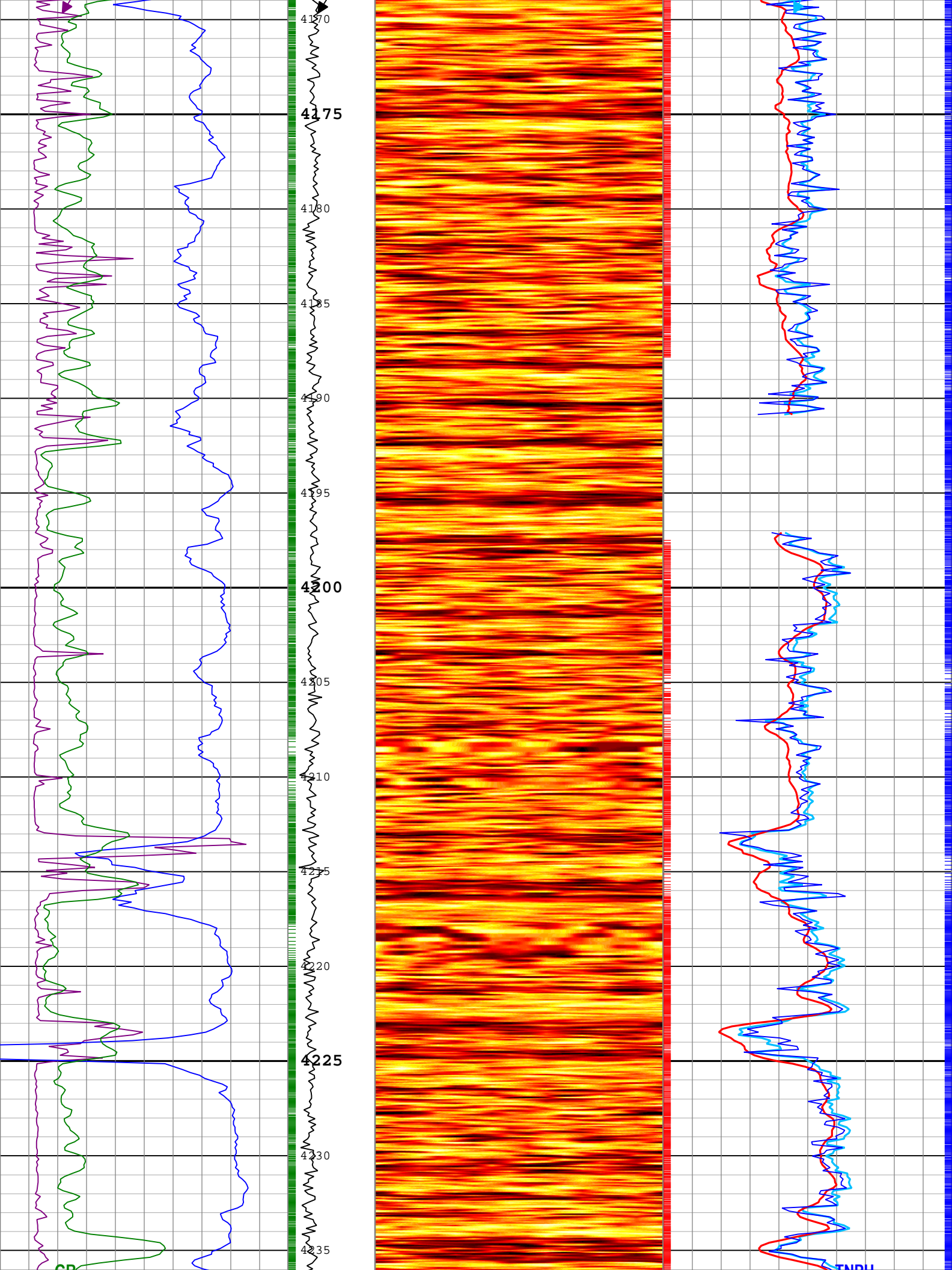


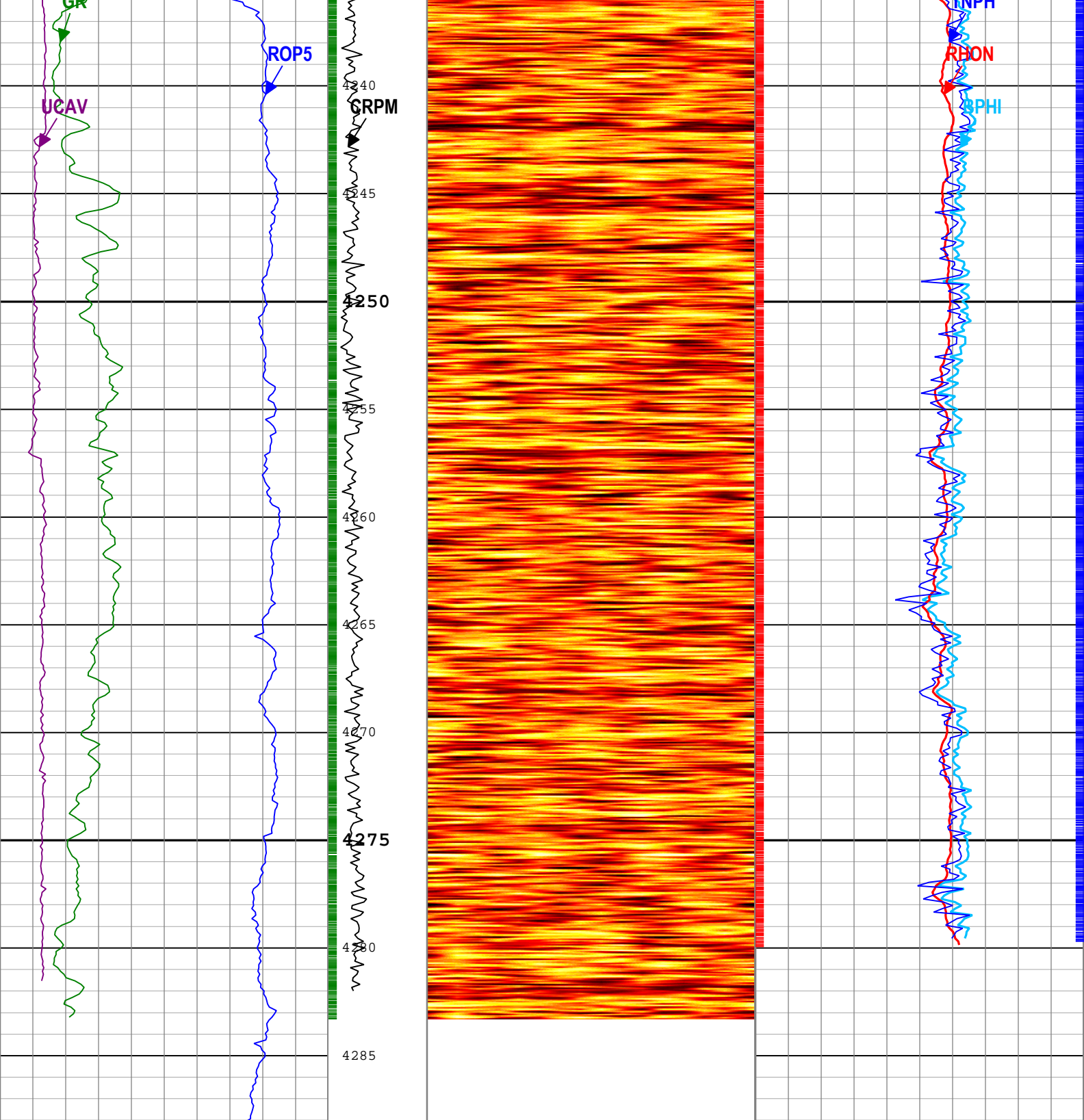












Ultrasonic Caliper Average (UCAV) DV6MTN RM	8	in	13
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT	100	m/h	0
Gamma Ray (GR) DV6MTN RM	0	gAPI	150

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

Description: NeoScope Natural Gamma Ray Format: Log (FINAL ECO LOG 2) Index Scale: 1:240 Index Unit: m Index Type: Measured Depth
 Creation Date: 31-Dec-2017 19:29:48

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	Time Zoned	m

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
OFFBTM_TH	0.3	27-Dec-2017 03:17:55	29-Dec-2017 04:47:05	3499.71	3658.36
OFFBTM_TH	0.4	29-Dec-2017 04:47:05	30-Dec-2017 17:41:59	3658.36	4288.41

All depth are at tool zero.

Company: IODP
Well: U1520B
Field: HSM-05A
Rig Name: Joides Resolution
Expedition: 372
Country: New Zealand



EcoScope Gamma Ray Service
1:240 Measured Depth
Recorded Mode Data