

# EcoScope Gamma Ray Service

## 1:240 Measured Depth

### Recorded Mode Data



**Company:** IODP  
**Well:** U1518B  
**Field:** HSM-15A  
**Rig Name:** Joides Resolution  
**Expedition:** 372  
**Country:** New Zealand

**Latitude:** 38° 51' 32.202" S  
**Longitude:** 178° 53' 45.618" 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:** 2636.30 m

<b>Acquisition Dates:</b>	20-Dec-2017 -- 23-Dec-2017	<b>Other Services:</b>
<b>Log Interval:</b>	2725.00(m) -- 3247.00(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>	21-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	2649.70 m	3247.31 m	20-Dec-2017 10:51:33 PM	23-Dec-2017 3:06:27 AM	Yes

All depths are referenced to toolstring zero

## Log

Company: IODP Well: U1518B  
Run 1: Drilling: S049

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 00:05:47

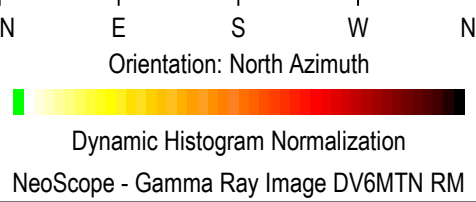
TICK\_GR - Gamma Ray Samples DV6MTN RM

TICK\_RHON - RHON Tick Marks DV6MTN RM

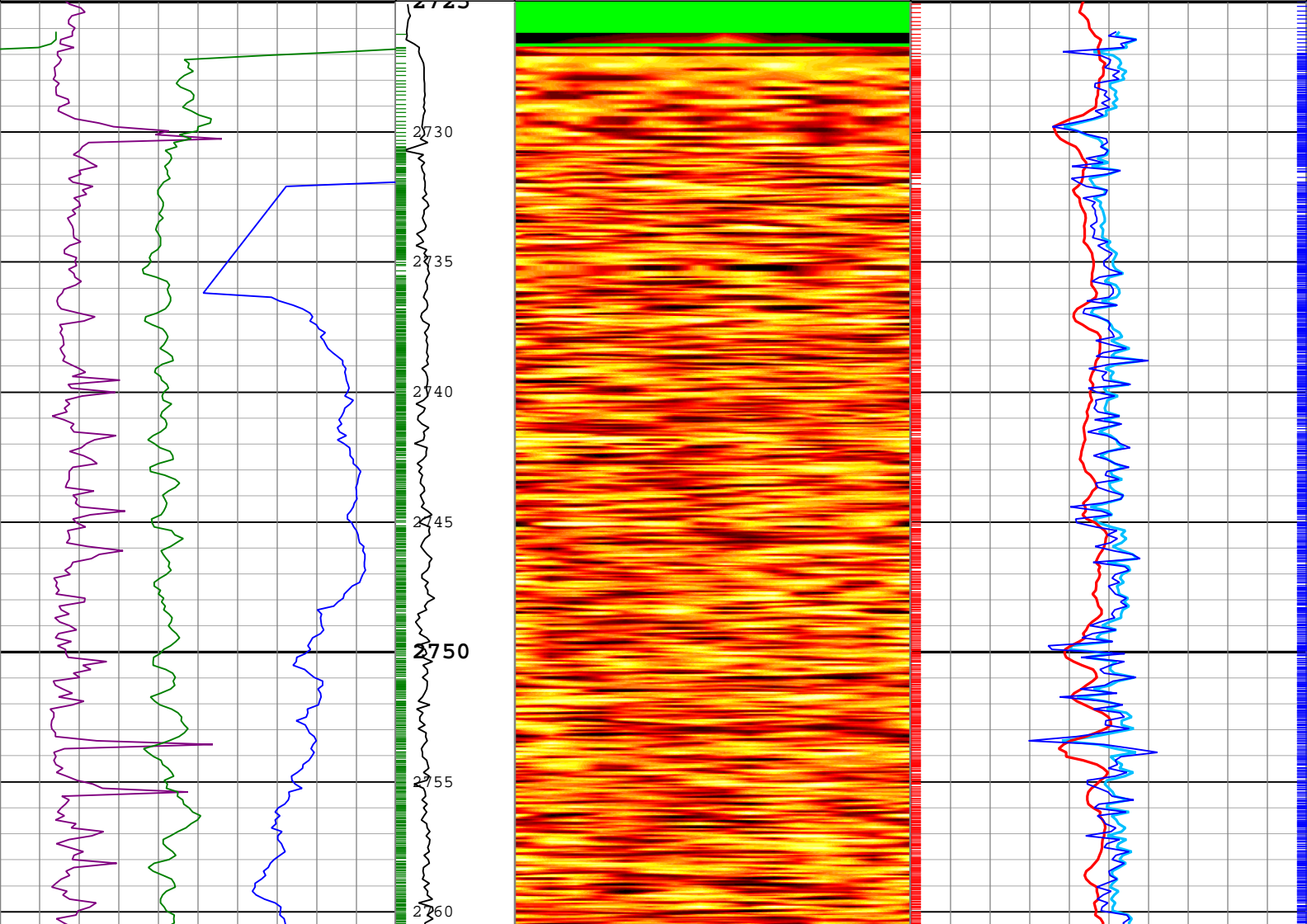
TICK\_NEU - Neutron Ticks, 0.1 ft DV6MTN RM

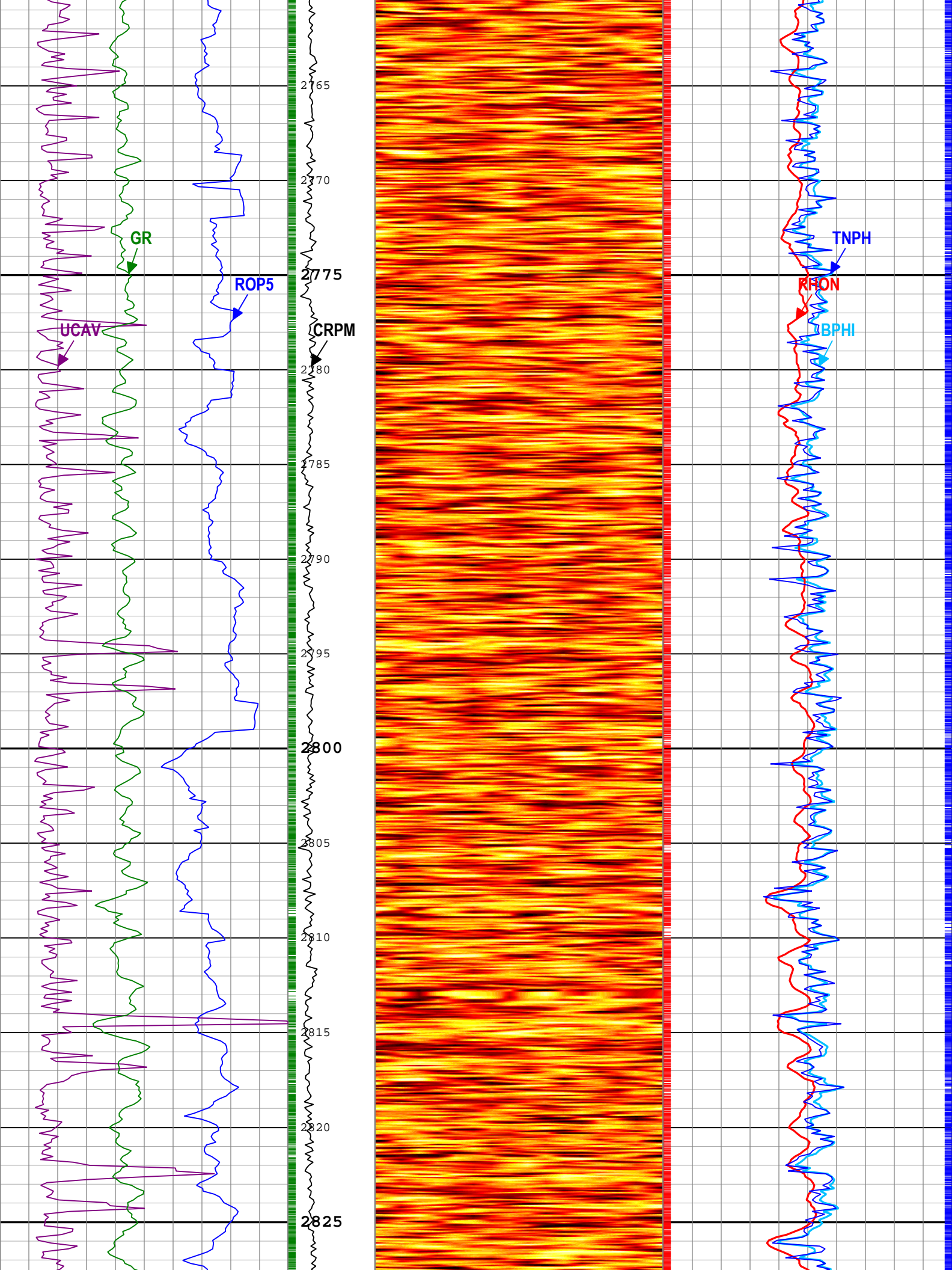
Ultrasonic Caliper Average (UCAV) DV6MTN RM		
8	in	13
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Gamma Ray (GR) DV6MTN RM		
0	gAPI	150

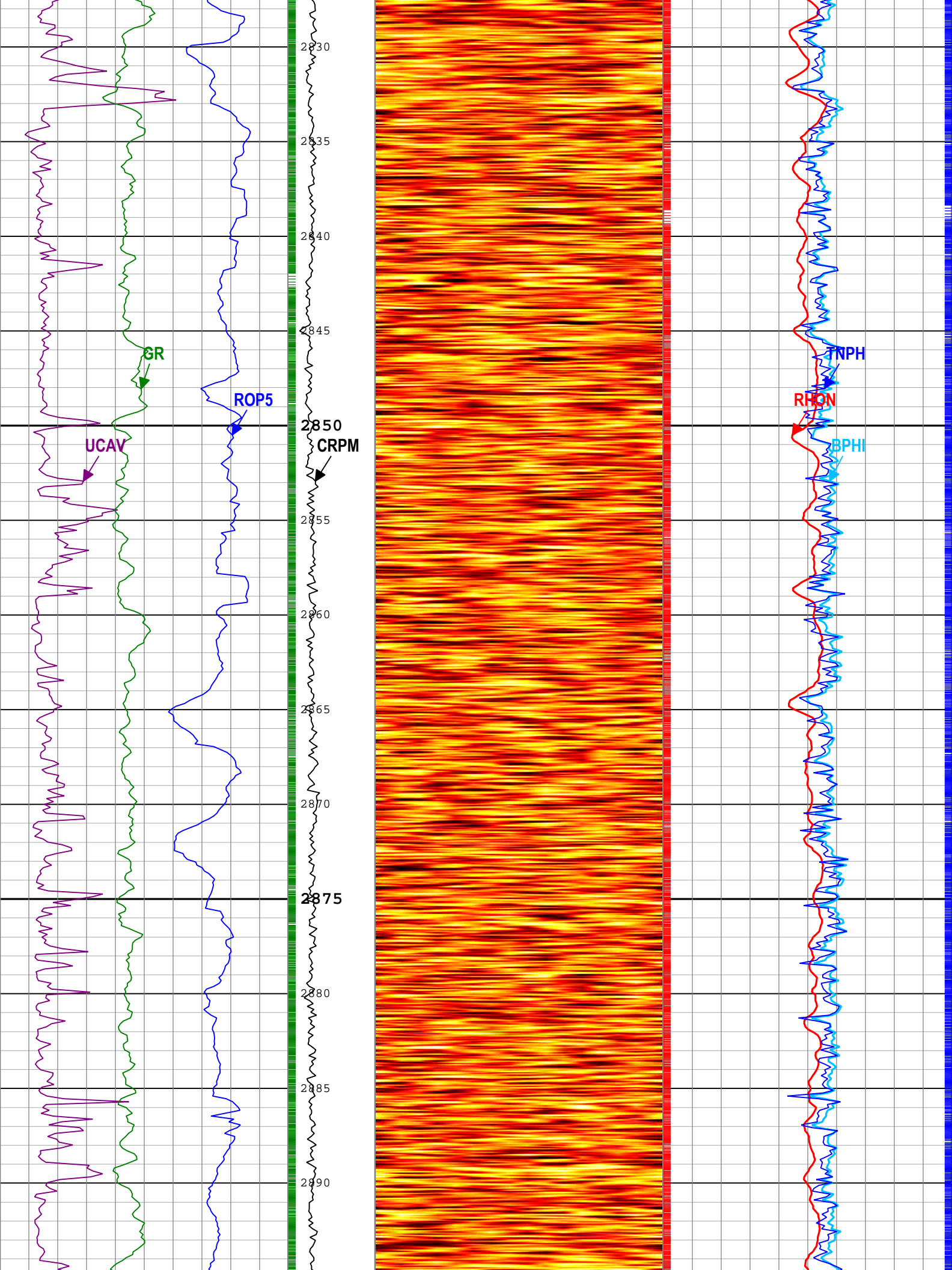
Collar Rotational Speed (CRPM) DV6MTN RM  
0 c/min 200

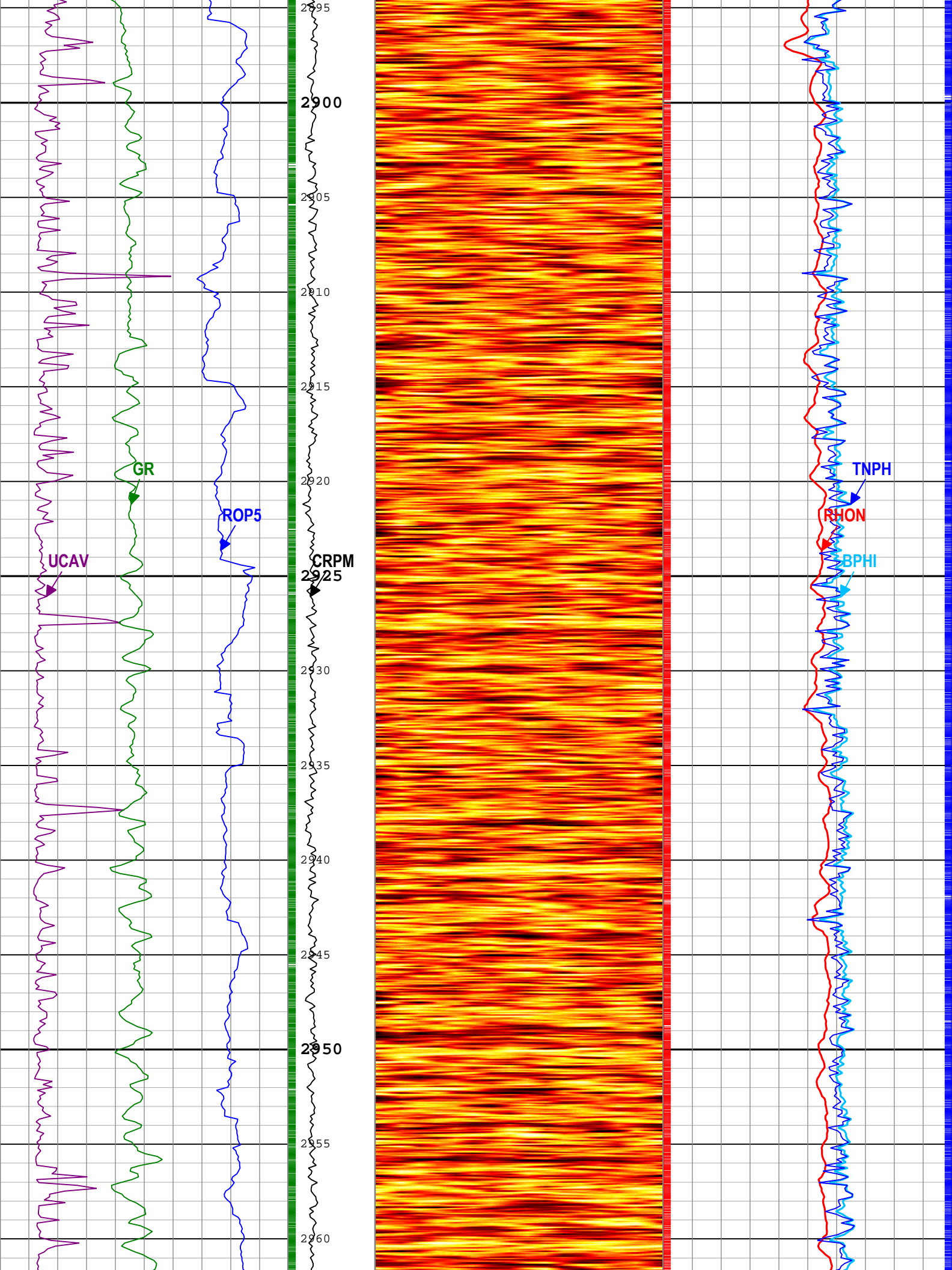


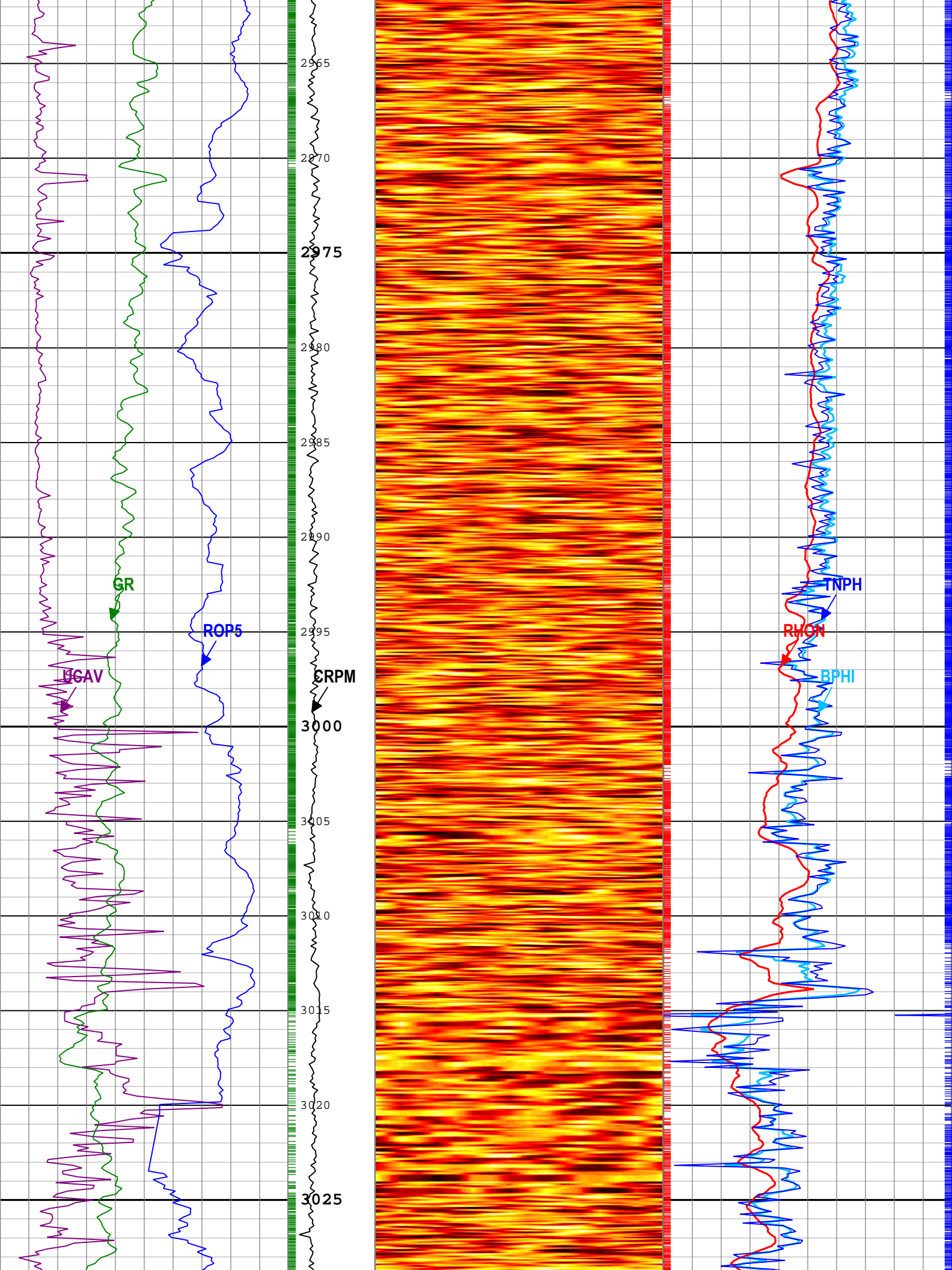
Best Thermal Neutron Porosity, Average (BPHI) DV6MTN RM		
1	m3/m3	0
Bulk Density from Neutron, Average Filtered (RHON) DV6MTN RM		
1	g/cm3	3
Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH) DV6MTN RM		
1	m3/m3	0

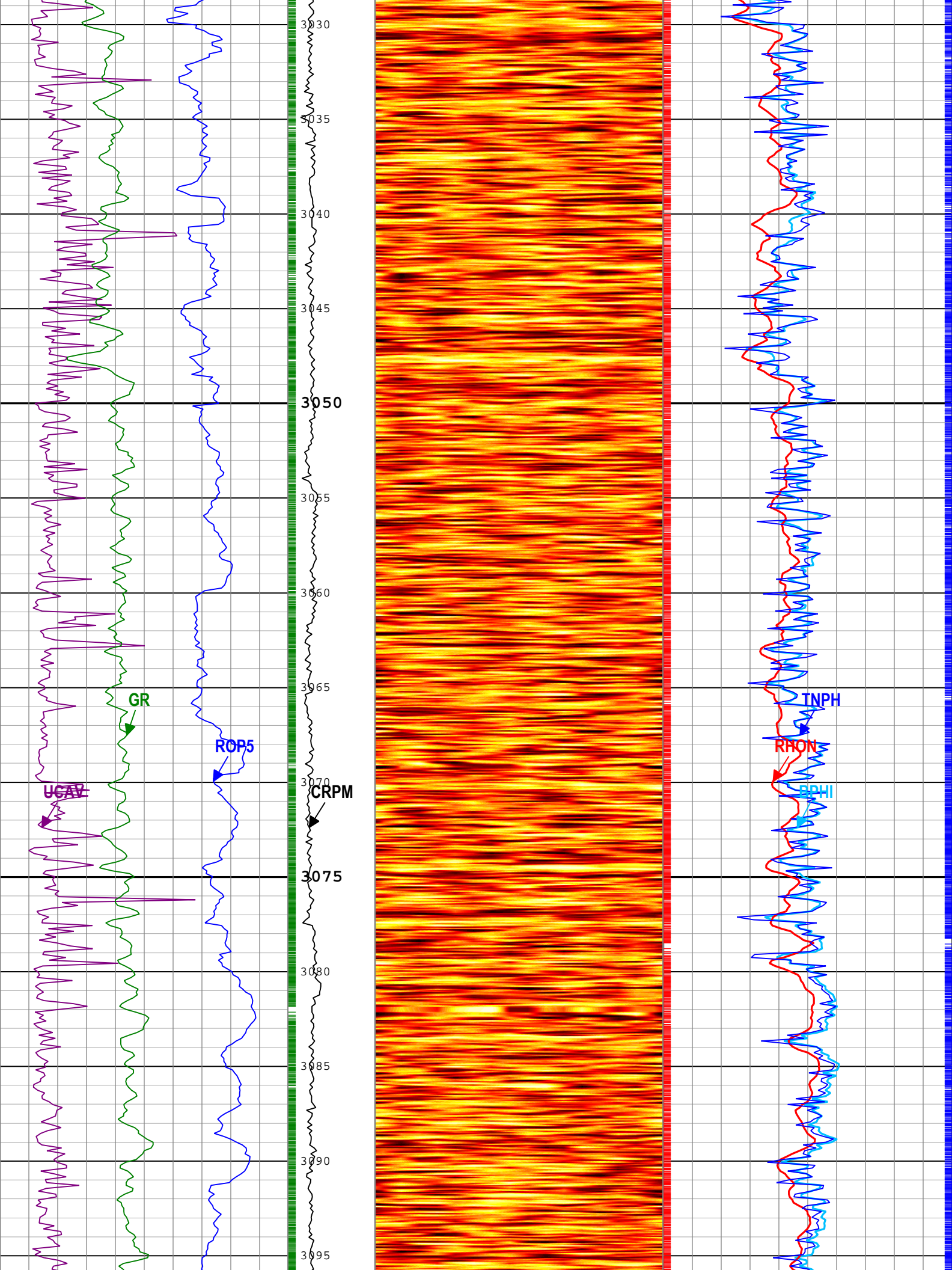


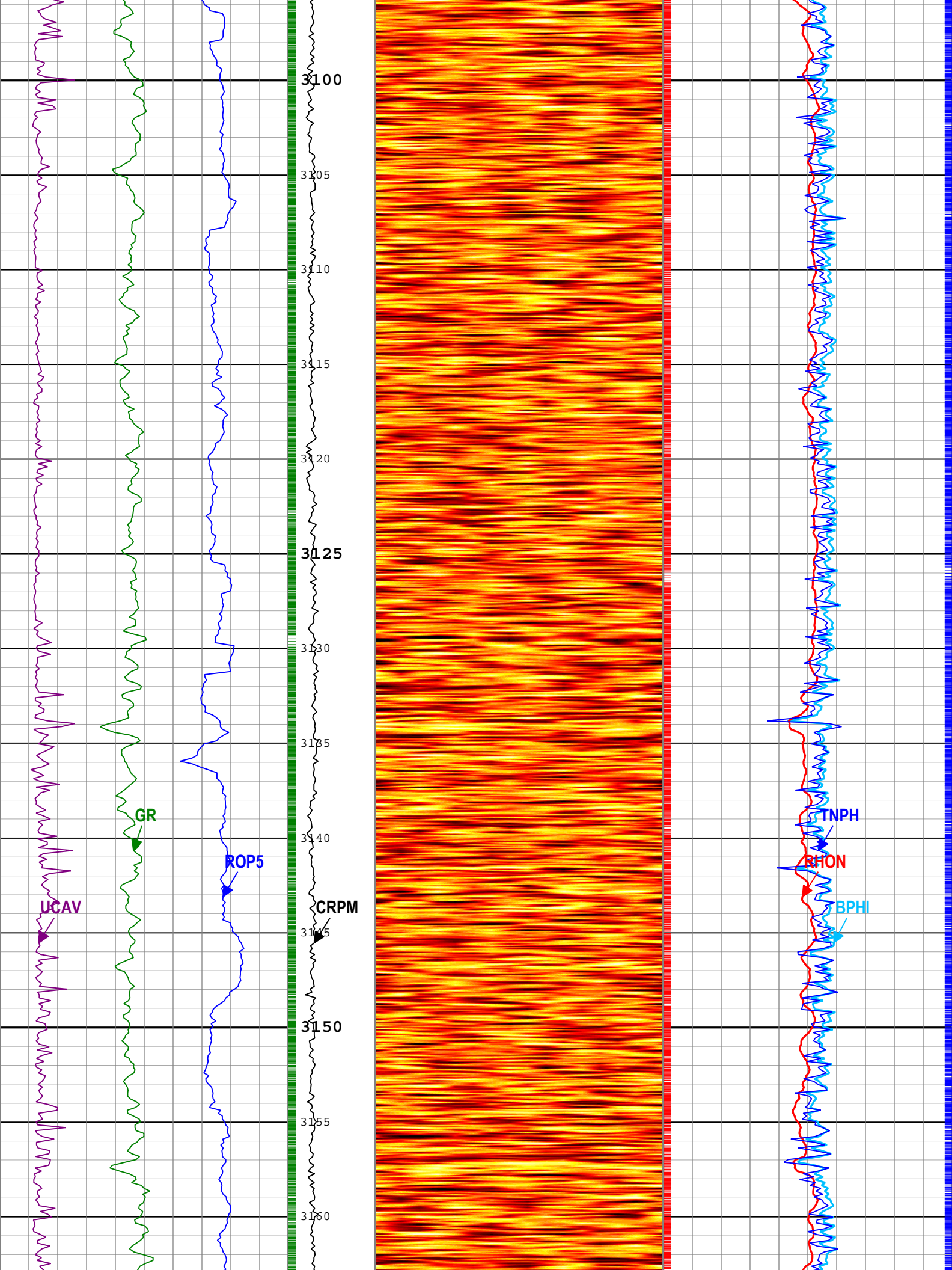




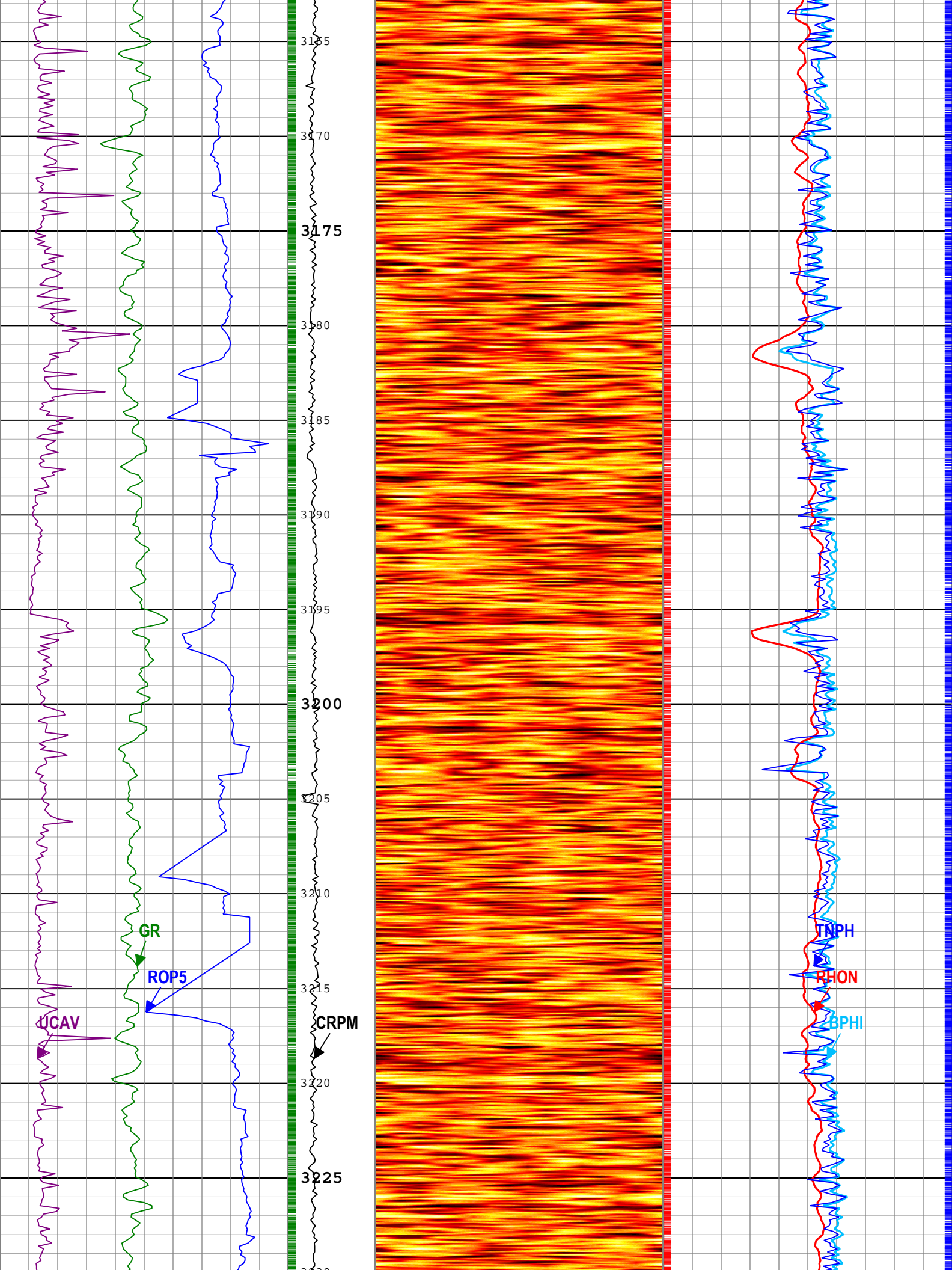


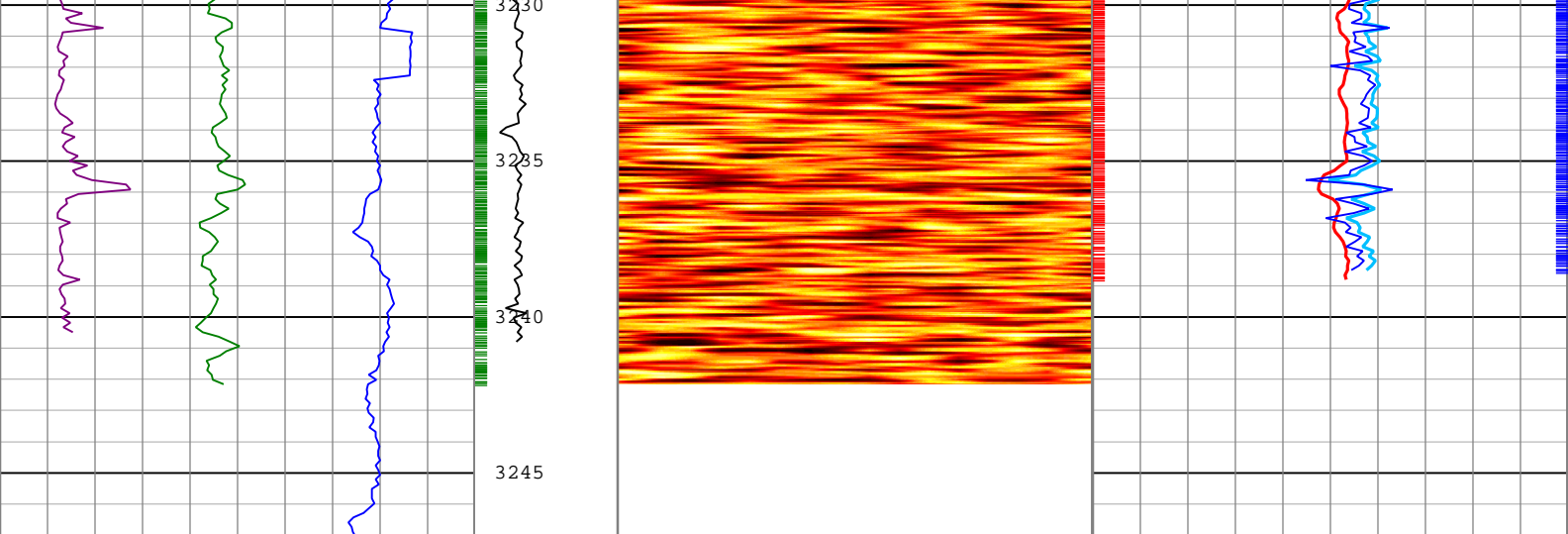






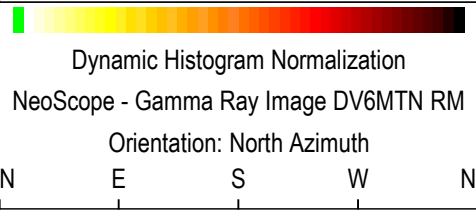






Ultrasonic Caliper Average (UCAV) DV6MTN RM		
8	in	13
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Gamma Ray (GR) DV6MTN RM		
0	gAPI	150

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



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 00:05:47

## Channel Processing Parameters

### Run 1: Parameters

Parameter	Description	Tool	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	0	%
BHT	Bottom Hole Temperature	Borehole	5	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

**Company:** IODP  
**Well:** U1518B  
**Field:** HSM-15A  
**Rig Name:** Joides Resolution  
**Expedition:** 372  
**Country:** New Zealand



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1:240 Measured Depth  
Recorded Mode Data