

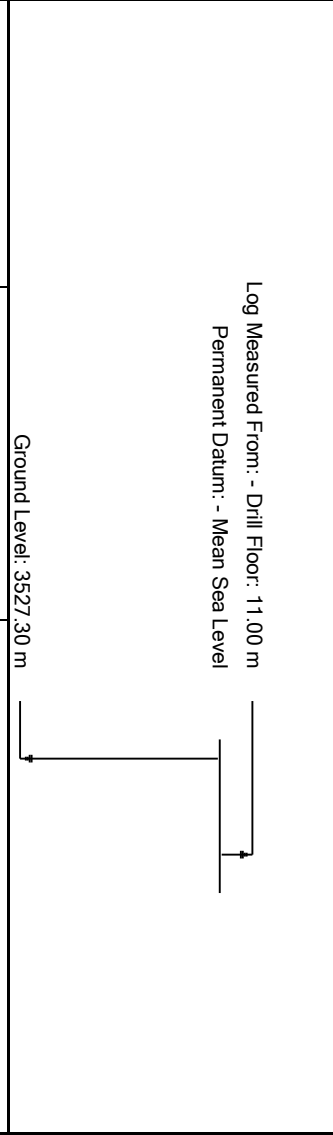
EcoScope Service
1:240 Measured Depth
Recorded Mode Data



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

Latitude: 38° 58' 9.84" S **UWID:**
Longitude: 178° 7' 56.1" E **Rig Name:** Joides Resolution
Block: EXP372 **Rig Type:** Drill Ship

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 1

Software Version

Acquisition System		Version
Maxwell 2017 SP3		7.3.92069.3100
Computation	Description	Version
ECO6ResistivityComputation	Resistivity QC Processing, ECO 6.75	7.3.92069.3100
ARCResistivity	ARC Resistivity Computation Package for ARC Tool Family	7.3.92069.3100
ECO6NeutronDensity	Neutron-Density Processing, ECO 6.75	7.3.92069.3100
ECO6GammaRay	Natural Gamma Ray 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
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	
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 Triple Combo Service Depth Without QC Format: Log (FINAL ECO LOG 1) Index Scale: 1:240 Index Unit: m Index Type: Measured Depth Creation Date: 31-Dec-2017 19:29:50

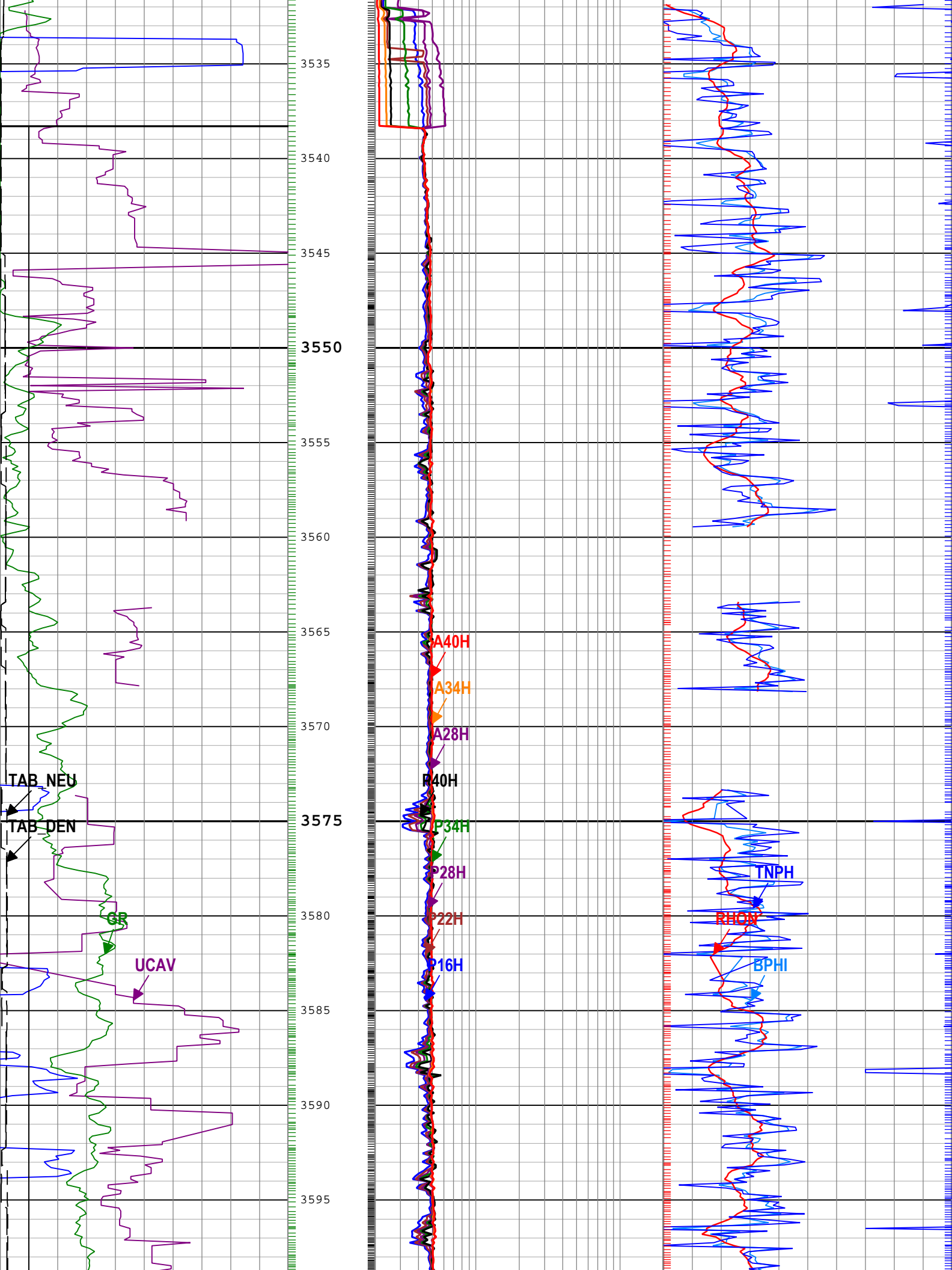
TICK_GR - Gamma Ray Samples DV6MTN RM

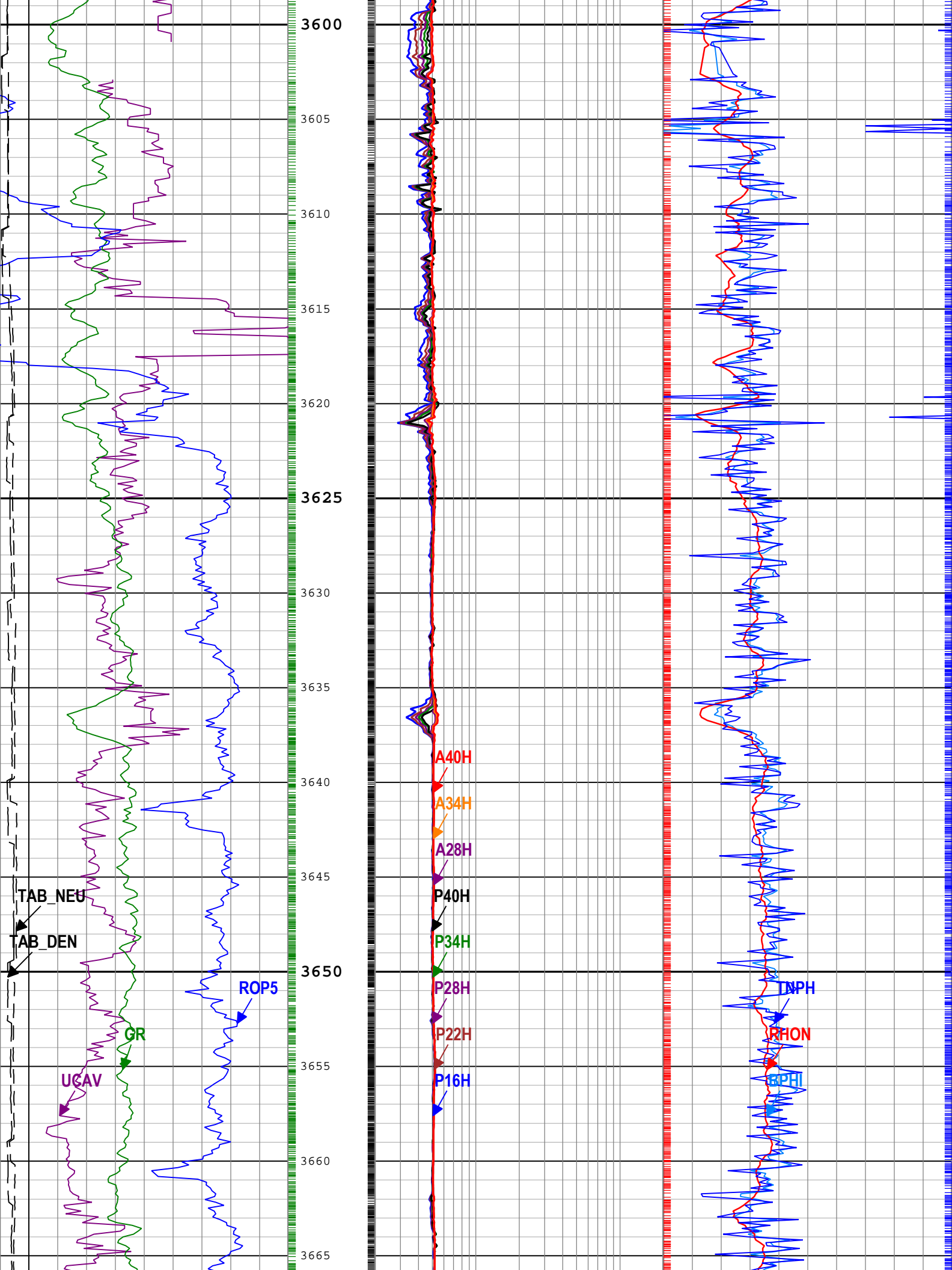
TICK_NEU - Neutron Ticks, 0.1 ft DV6MTN RM

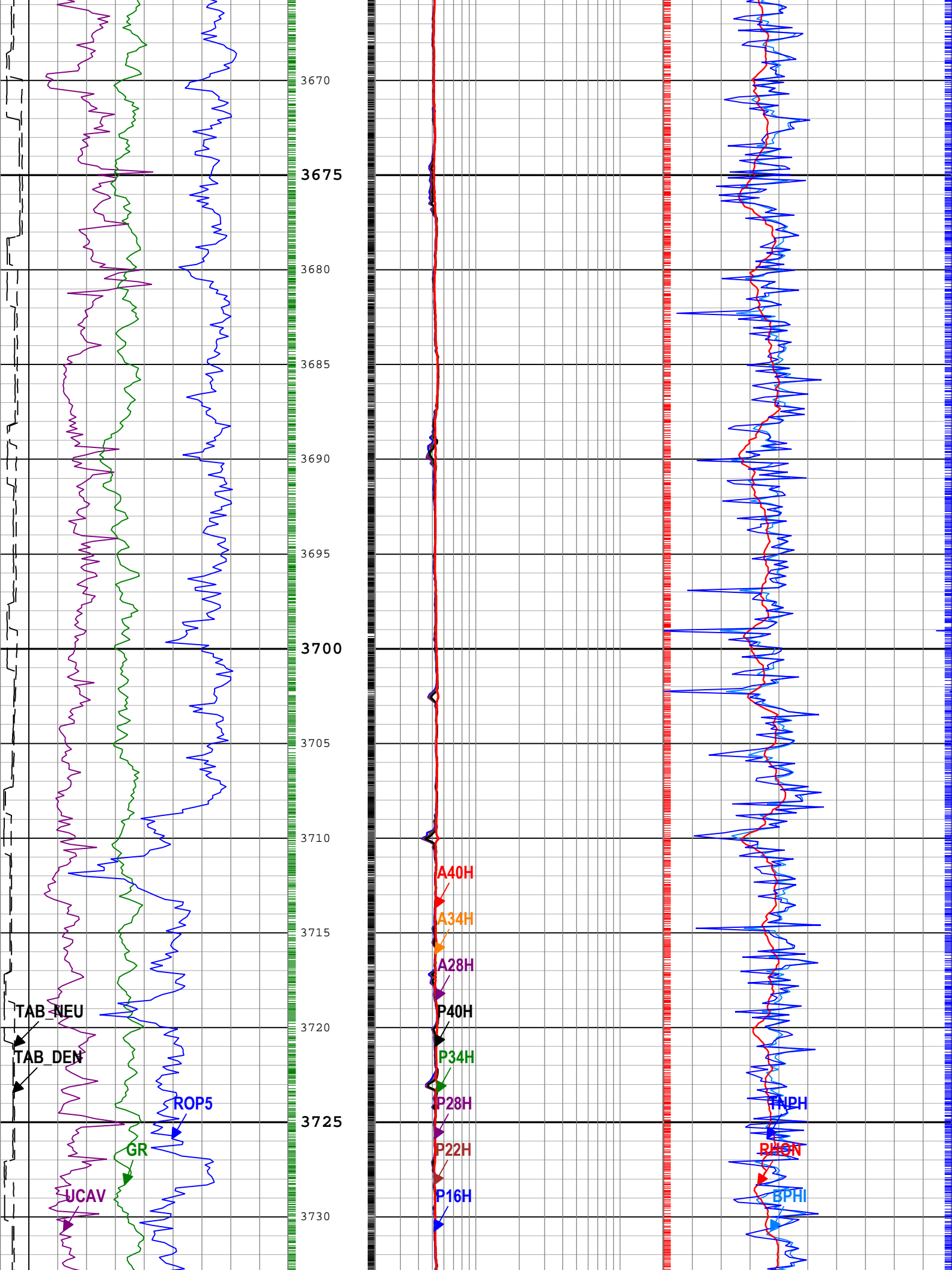
TICK_RHON - RHON Tick Marks DV6MTN RM

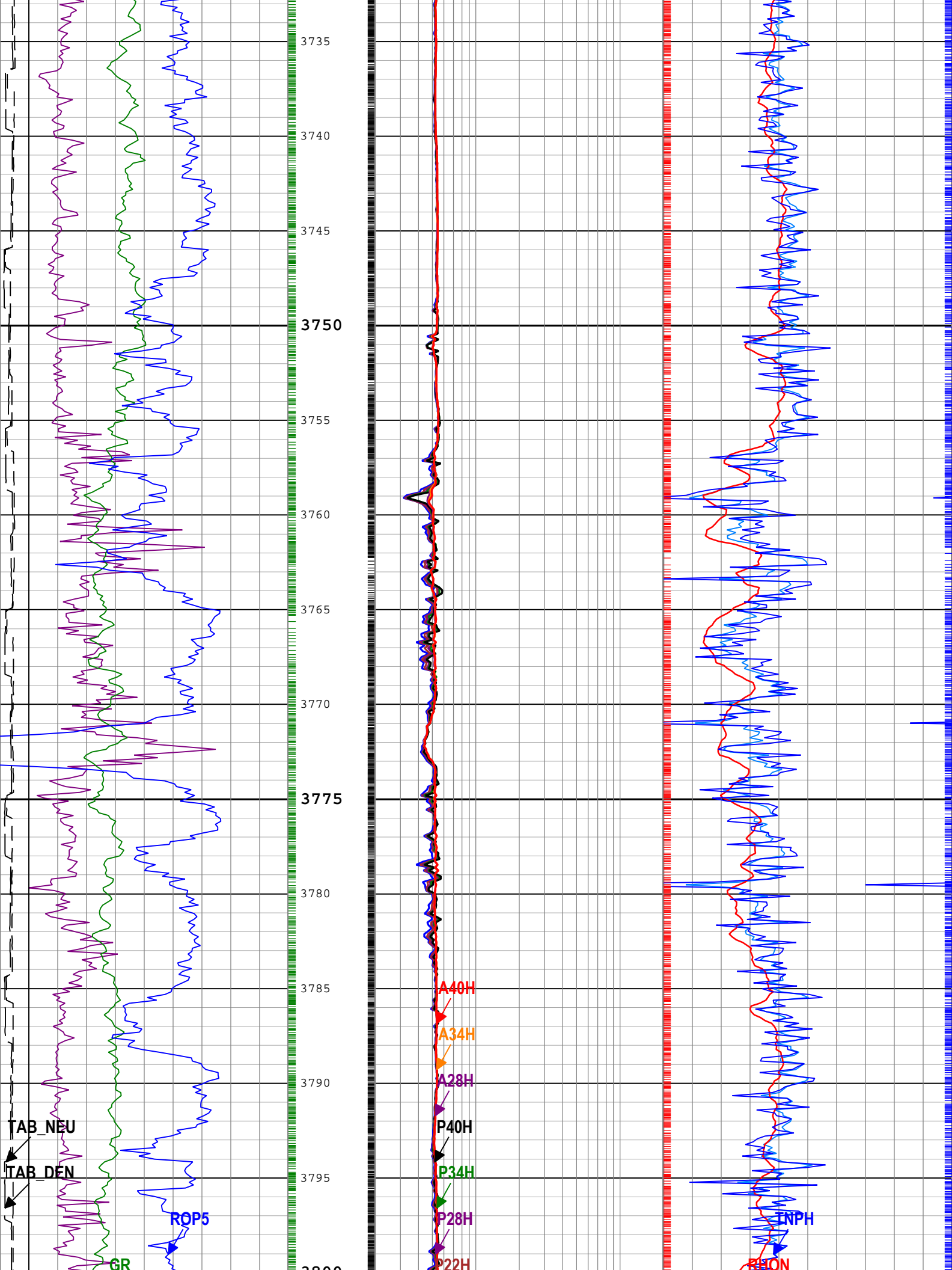
TICK_ARC_RES - ARC Resistivity Samples DV6MTN RM

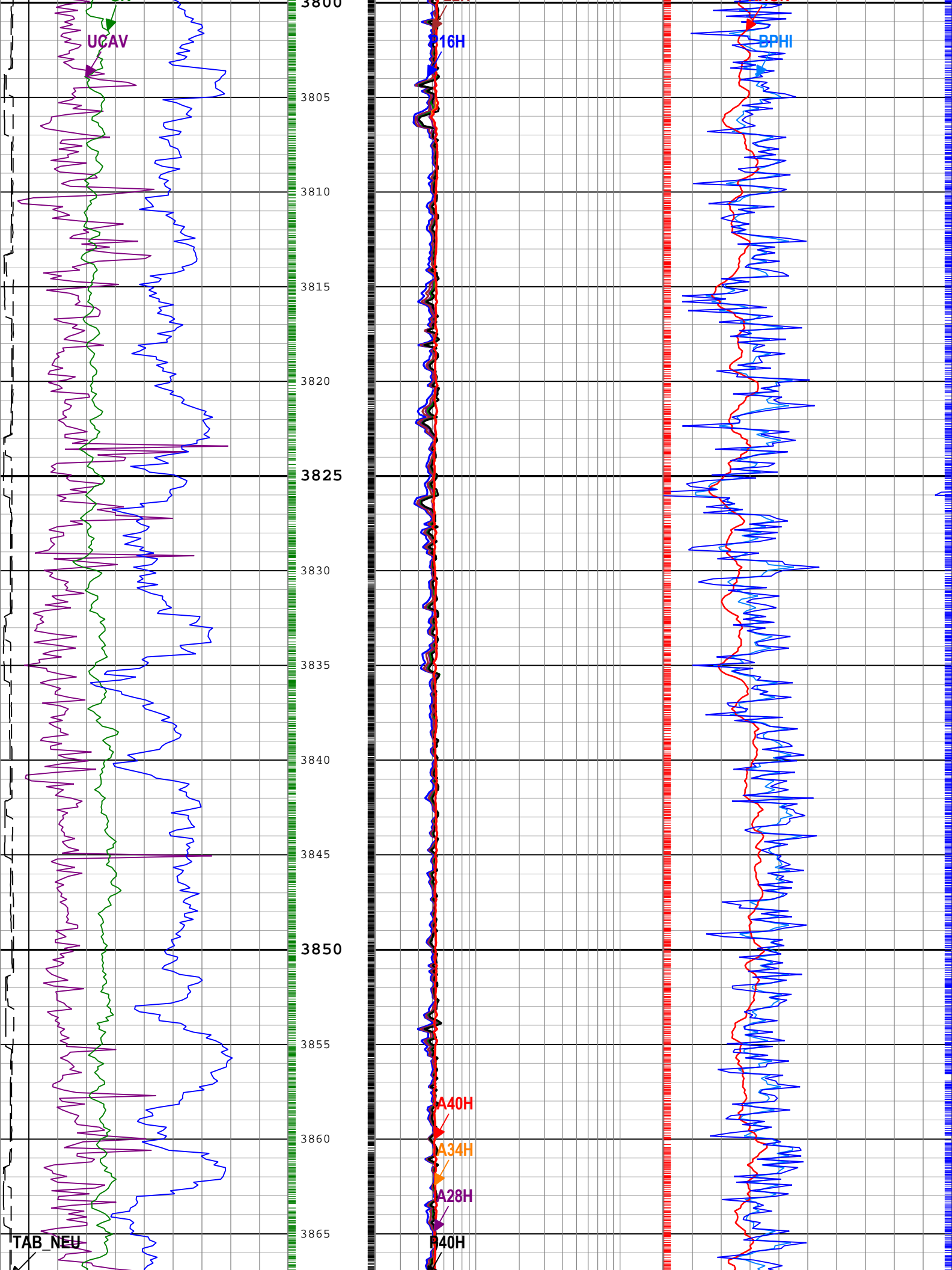
Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected. (P16H) DV6MTN RM		
0.2	ohm.m	2000
Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H) DV6MTN RM		
0.2	ohm.m	2000
Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) DV6MTN RM		
0.2	ohm.m	2000
Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H) DV6MTN RM		
0.2	ohm.m	2000
Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H) DV6MTN RM		
0.2	ohm.m	2000
Attenuation Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected (A28H) DV6MTN RM		
0.2	ohm.m	2000
Attenuation Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected (A34H) DV6MTN RM		
0.2	ohm.m	2000
Attenuation Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (A40H) DV6MTN RM		
0.2	ohm.m	2000
Ultrasonic Caliper Average (UCAV) DV6MTN RM		
8	in	13
Gamma Ray (GR) DV6MTN RM		
0	gAPI	150
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Bit Size (BS)		
8	in	13
Density Time After Bit (TAB_DEN) DV6MTN		
0	h	10
Neutron Time After Bit (TAB_NEU) DV6MTN		
0	h	10
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

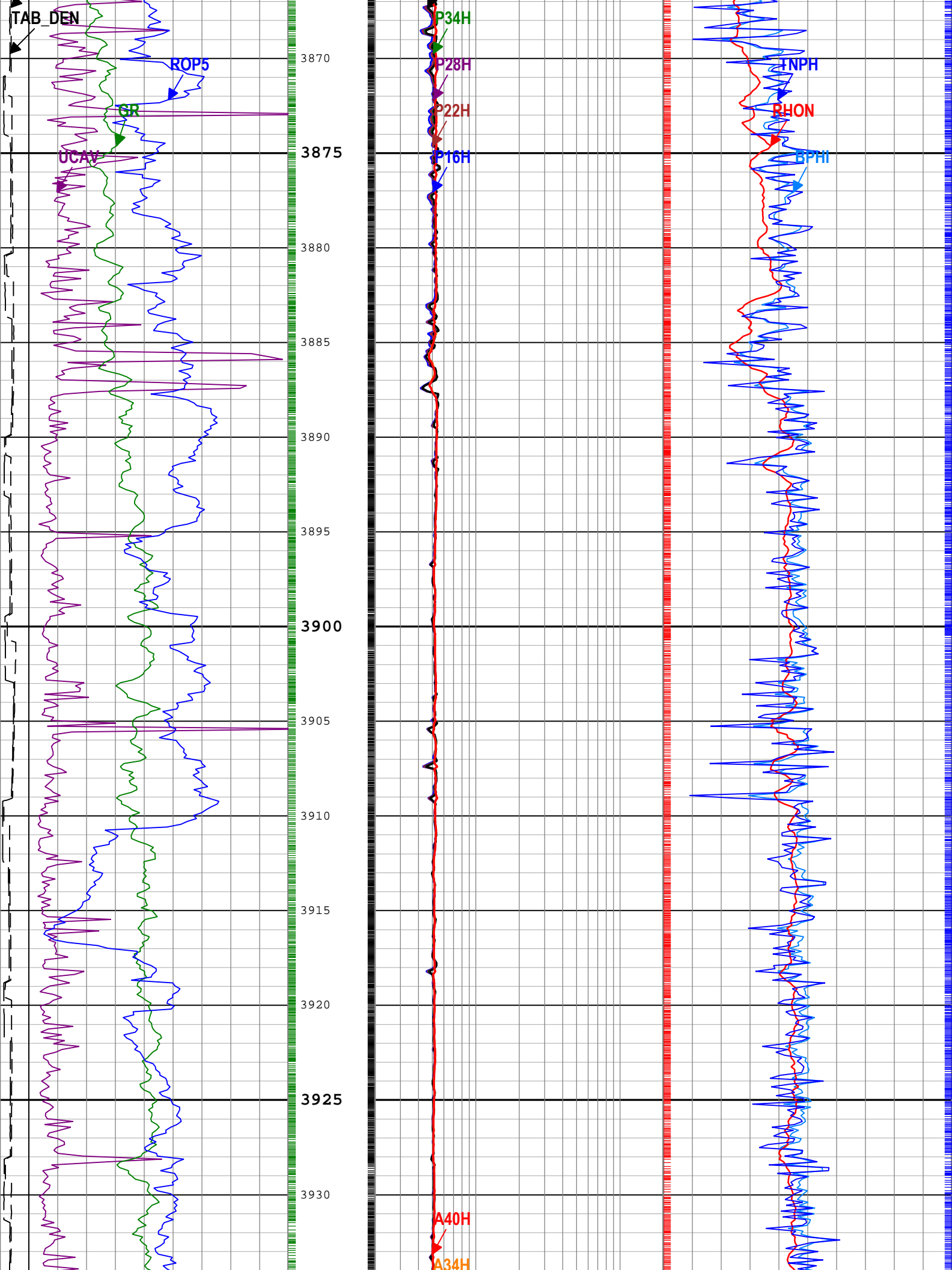


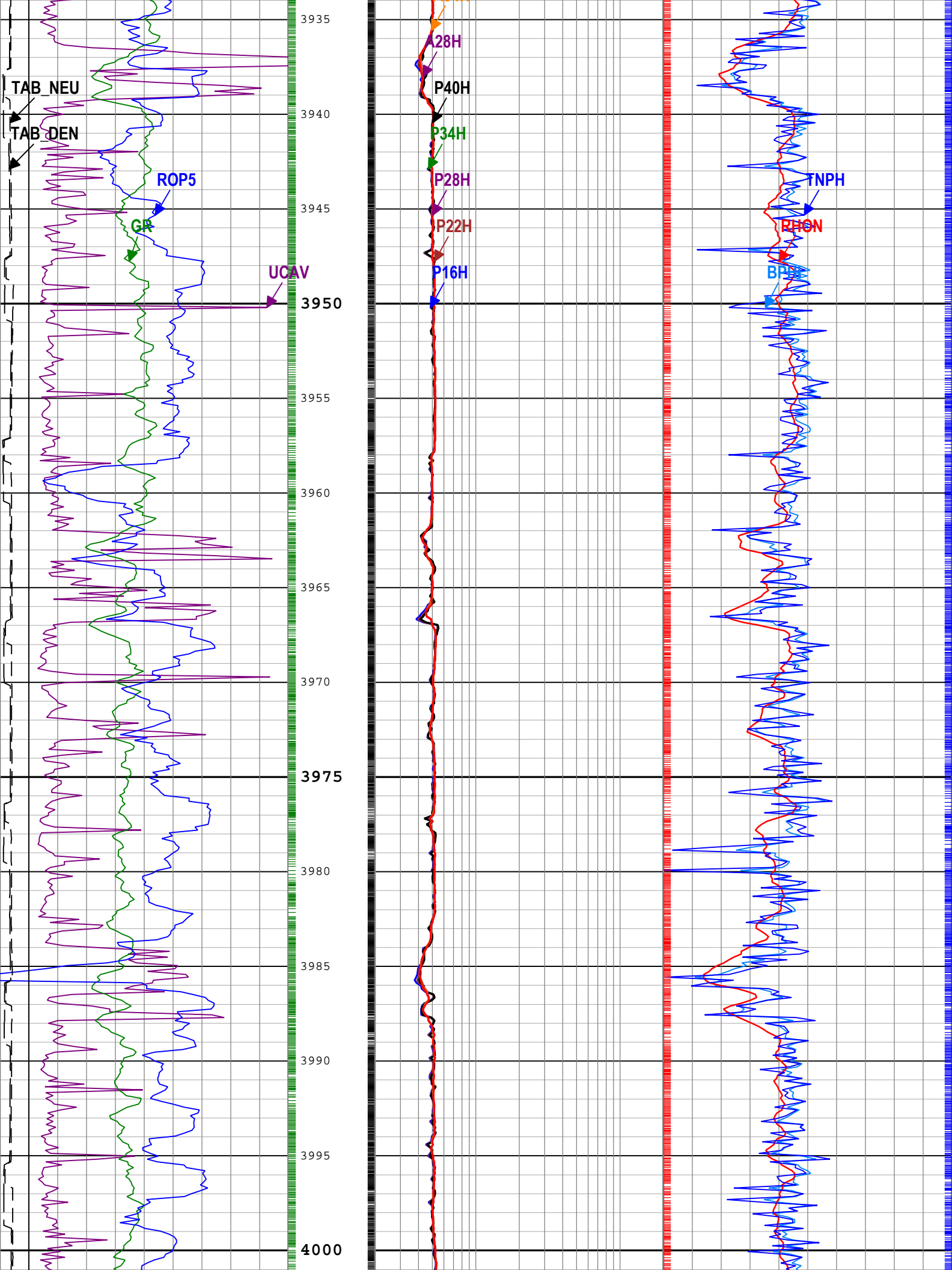


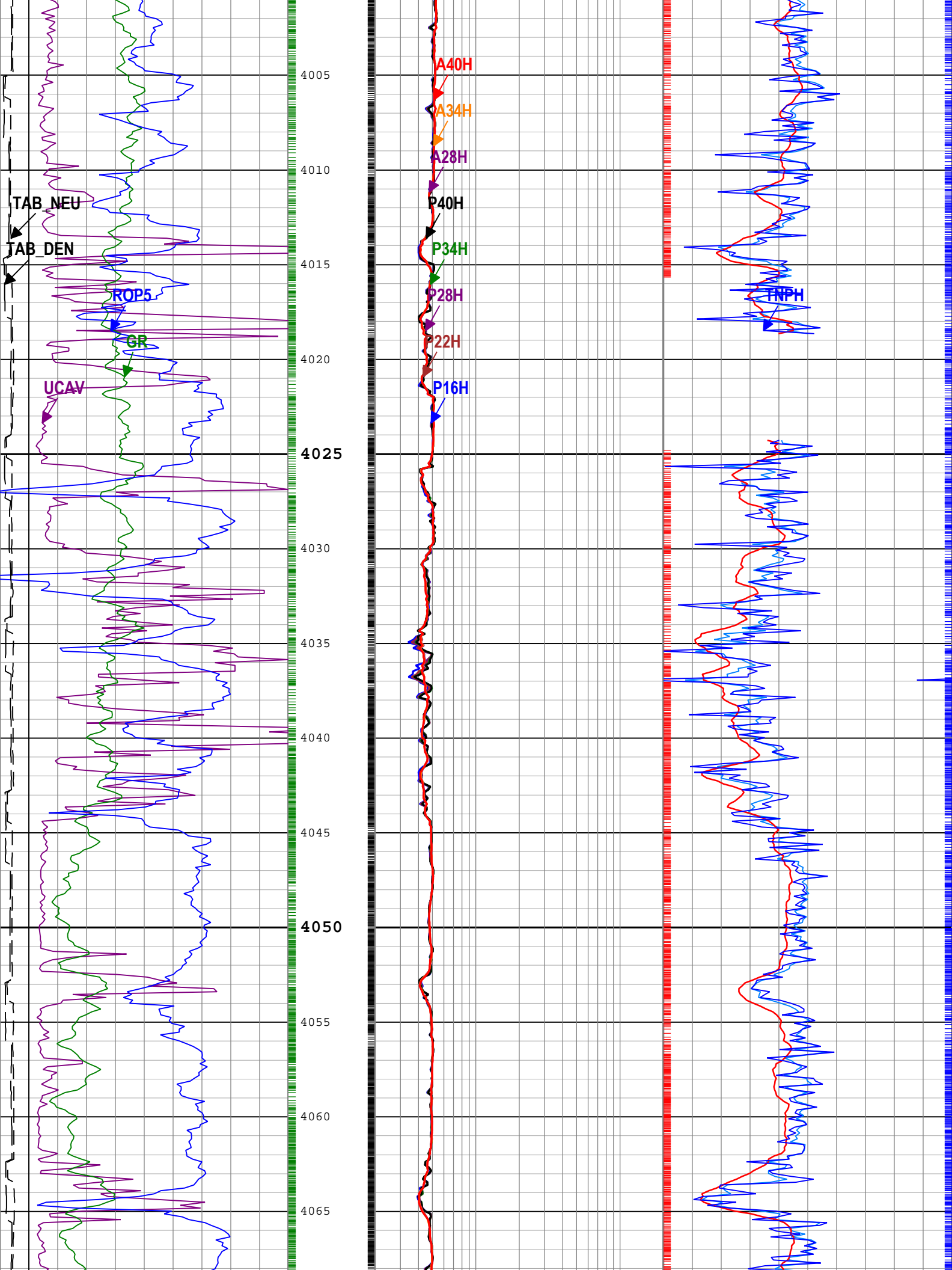


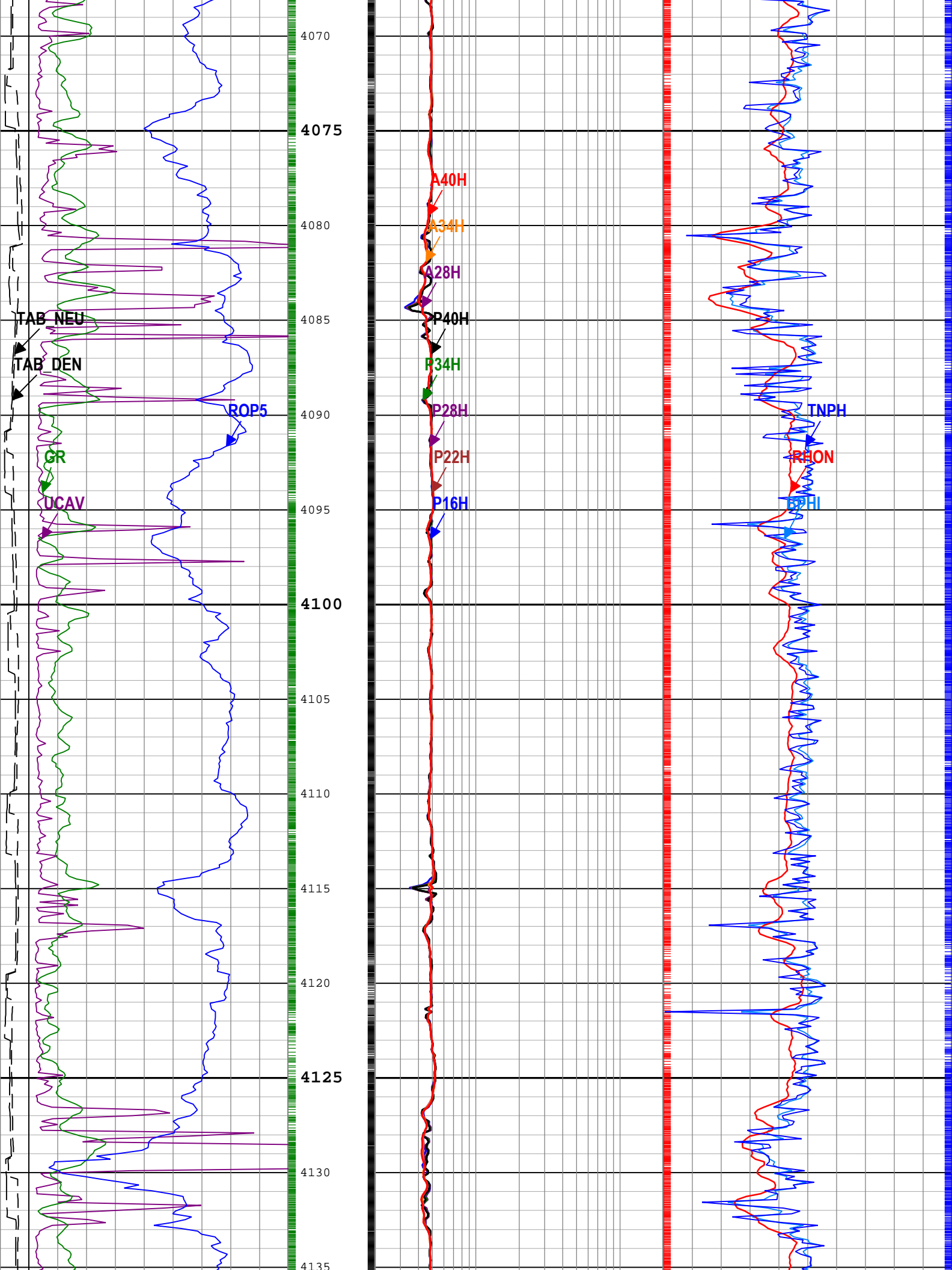


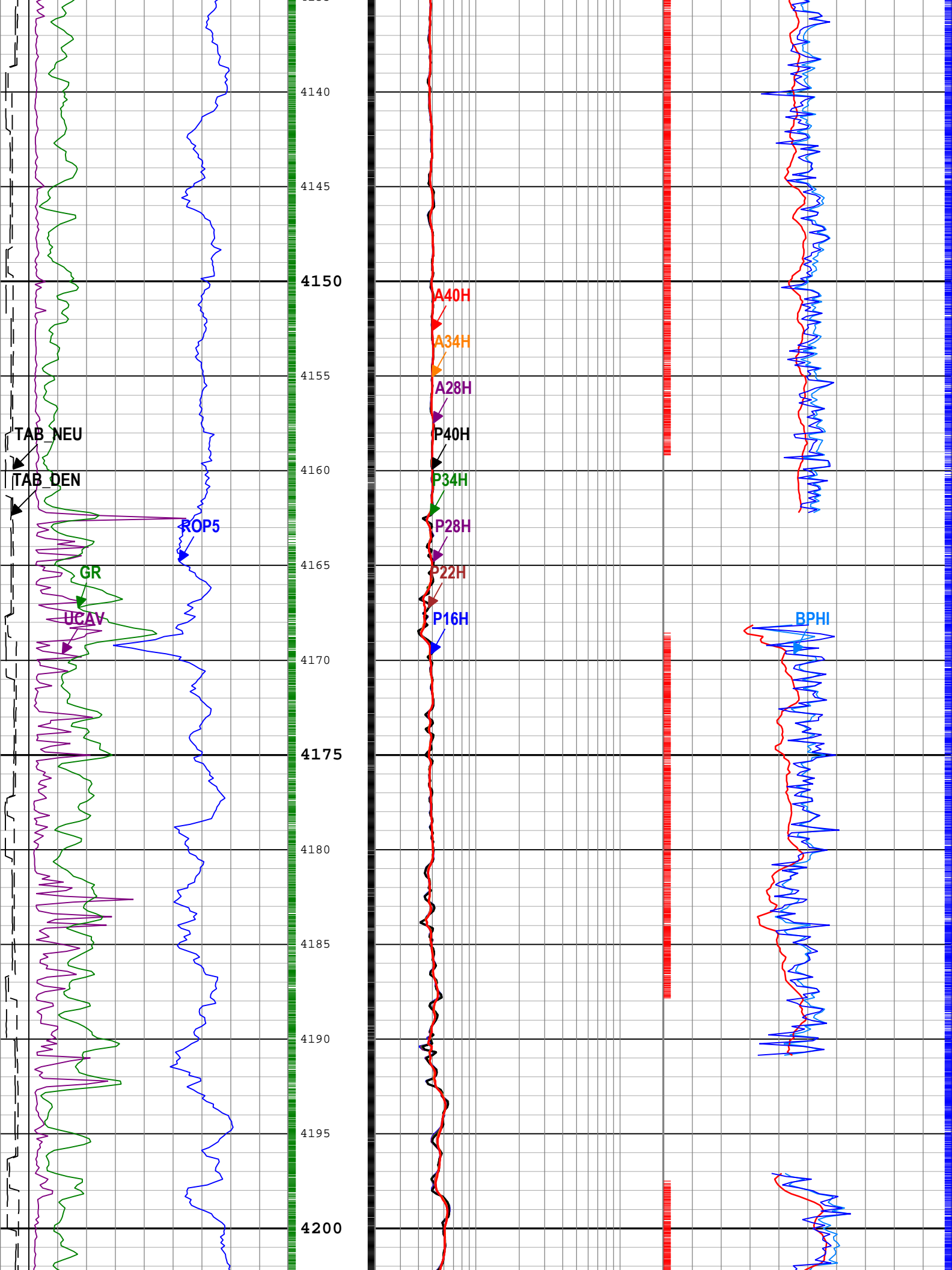


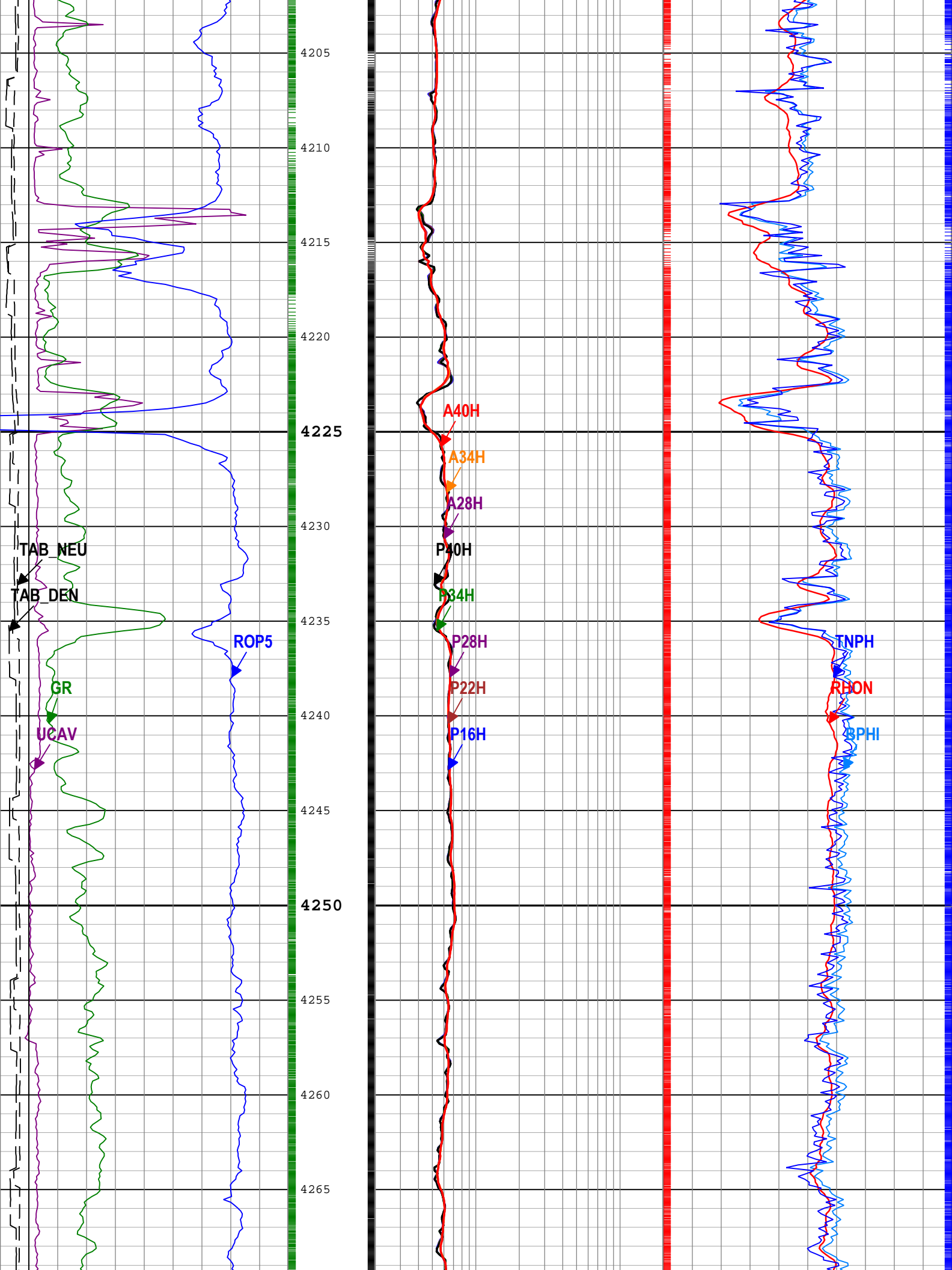


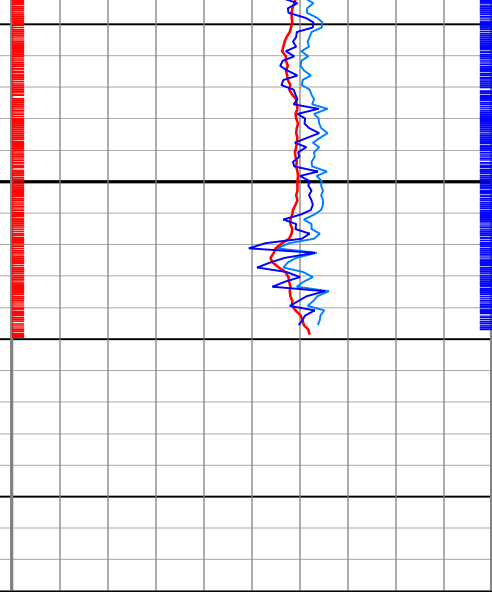
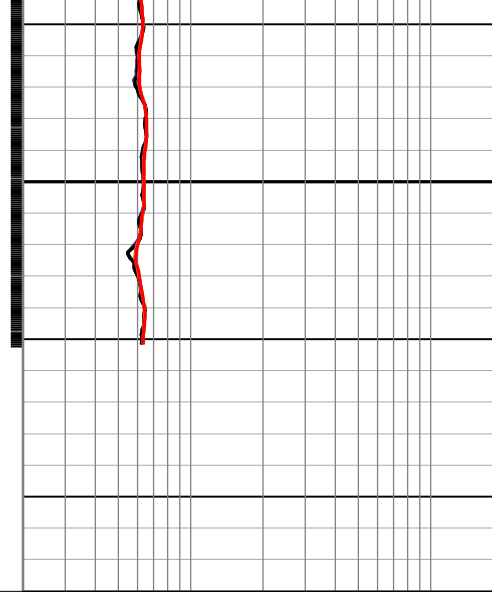
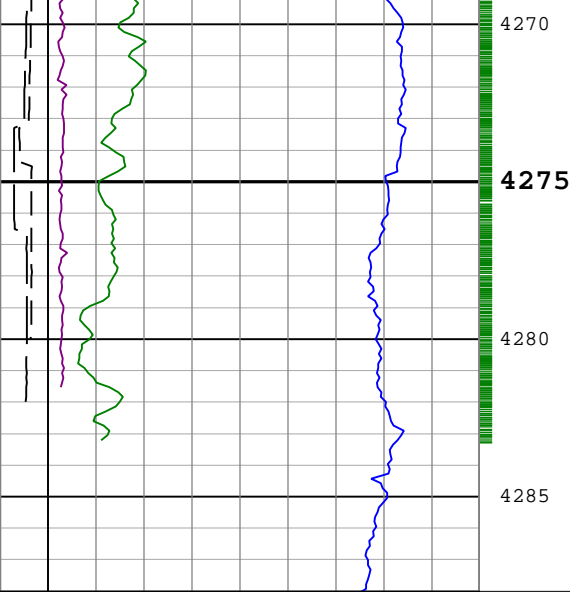












Ultrasonic Caliper Average (UCAV) DV6MTN RM		
8	in	13
Gamma Ray (GR) DV6MTN RM		
0	gAPI	150
Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		
100	m/h	0
Bit Size (BS)		
8	in	13
Density Time After Bit (TAB_DEN) DV6MTN		
0	h	10
Neutron Time After Bit (TAB_NEU) DV6MTN		
0	h	10

Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected. (P16H) DV6MTN RM		
0.2	ohm.m	2000
Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H) DV6MTN RM		
0.2	ohm.m	2000
Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H) DV6MTN RM		
0.2	ohm.m	2000
Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H) DV6MTN RM		
0.2	ohm.m	2000
Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H) DV6MTN RM		
0.2	ohm.m	2000
Attenuation Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected (A28H) DV6MTN RM		
0.2	ohm.m	2000
Attenuation Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected (A34H) DV6MTN RM		
0.2	ohm.m	2000
Attenuation Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (A40H) DV6MTN RM		
0.2	ohm.m	2000

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_ARC_RES - ARC Resistivity Samples DV6MTN RM

TICK_RHON - RHON Tick Marks DV6MTN RM

TICK_NEU - Neutron Ticks, 0.1 ft DV6MTN RM

TICK_GR - Gamma Ray Samples DV6MTN RM

Channel Processing Parameters

Run 1: Parameters

Parameter	Description	Tool	Value	Unit
ABNT	Abnormal Transmitter Indicator	DV6MTN	NO_TX_FAILED	
BH_OPT	Borehole Effect Computation Option	DV6MTN	No	
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
ERRCT	Percentage Error Cutoff	DV6MTN	4.5	%
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	
GRSE_RM	Generalized Mud Resistivity Selection for Recorded Mode	Borehole	REMS(RM)	
GRSH	Gamma Ray Shale	DV6MTN	1000	gAPI
GTSE_RM	Generalized Temperature Selection for Recorded Mode	Borehole	DHAT(RM)	
HIGH_BLEND	High Resistivity Threshold for Blending	DV6MTN	2	ohm.m
INVAS_OPT	Invasion Computation Option	DV6MTN	No	
LOW_BLEND	Low Resistivity Threshold for Blending	DV6MTN	1	ohm.m
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MST	Mud Sample Temperature	Borehole	23.89	degC
MSWS	ARCWizard Model Switch Window Size	DV6MTN	152.4	cm
MULTIEFF_OPT	Multi-effect Computation Option	DV6MTN	No	
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	
PRTD	ARCWizard Preferred Resistivity Log for Rt Display while Multi-Effects	DV6MTN	P34B	
RMS	Resistivity of Mud Sample	Borehole	0.2	ohm.m
STOH	Top of Hole Sector	DV6MTN	SECTOR_0	
T1WM	ARCWizard Weight Multiplier to Measurements for Transmitter 1	DV6MTN	1	
T2WM	ARCWizard Weight Multiplier to Measurements for Transmitter 2	DV6MTN	1	
T3WM	ARCWizard Weight Multiplier to Measurements for Transmitter 3	DV6MTN	1	
T4WM	ARCWizard Weight Multiplier to Measurements for Transmitter 4	DV6MTN	1	
T5WM	ARCWizard Weight Multiplier to Measurements for Transmitter 5	DV6MTN	1	
TEMP_SEL_ARC	ARC Temperature Selection	DV6MTN	Annular	

TEMP_SEL_NEU	Temperature Correction Source for Neutron Processing	DV6MTN	GTSE	
UNIFORM_OPT	Uniform Rock Computation Option	DV6MTN	No	

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



Schlumberger

EcoScope Service
 1:240 Measured Depth
 Recorded Mode Data