

5in/100ft Measured Depth  
Real Time, Composite Log

Company: Crestone Peak Resources Operating LLC

Well: Dream Weaver North 3A-21H-N268

Field: Wattenberg

County: Weld

State: Colorado

Country: United States of America

Section: 21 APIN: 05-123-4830000

Township: 2N Rig Name: Ensign 142

Range: 68W Rig Type: Land Rig - TopDrive

FL: NAD83 Colorado State Plane, Northern Zone, US Feet

FL1: X: 3136653.108 ftUS

FL2: Y: 1286960.173 ftUS

Log Measured From: - Drill Floor: 4929.00 ft

Ground Level: 4901.00 ft

Permanent Datum: - Mean Sea Level

Acquisition Dates: 05-Oct-2019 -- 10-Oct-2019

Log Interval: 2261.83(ft) -- 19820.00(ft)

Index Types: Measured Depth

Index Scales: 1:240 5" / 100'

Depth Source: Driller's Depth

Depth Sensor: 3rd Party Depth

Print Type: Final

Spud Date: 25-SEP-2019

Other Services:

Directional Drilling

Direction and Inclination (Surveys)

Continuous D&I

Rotary Steerable System

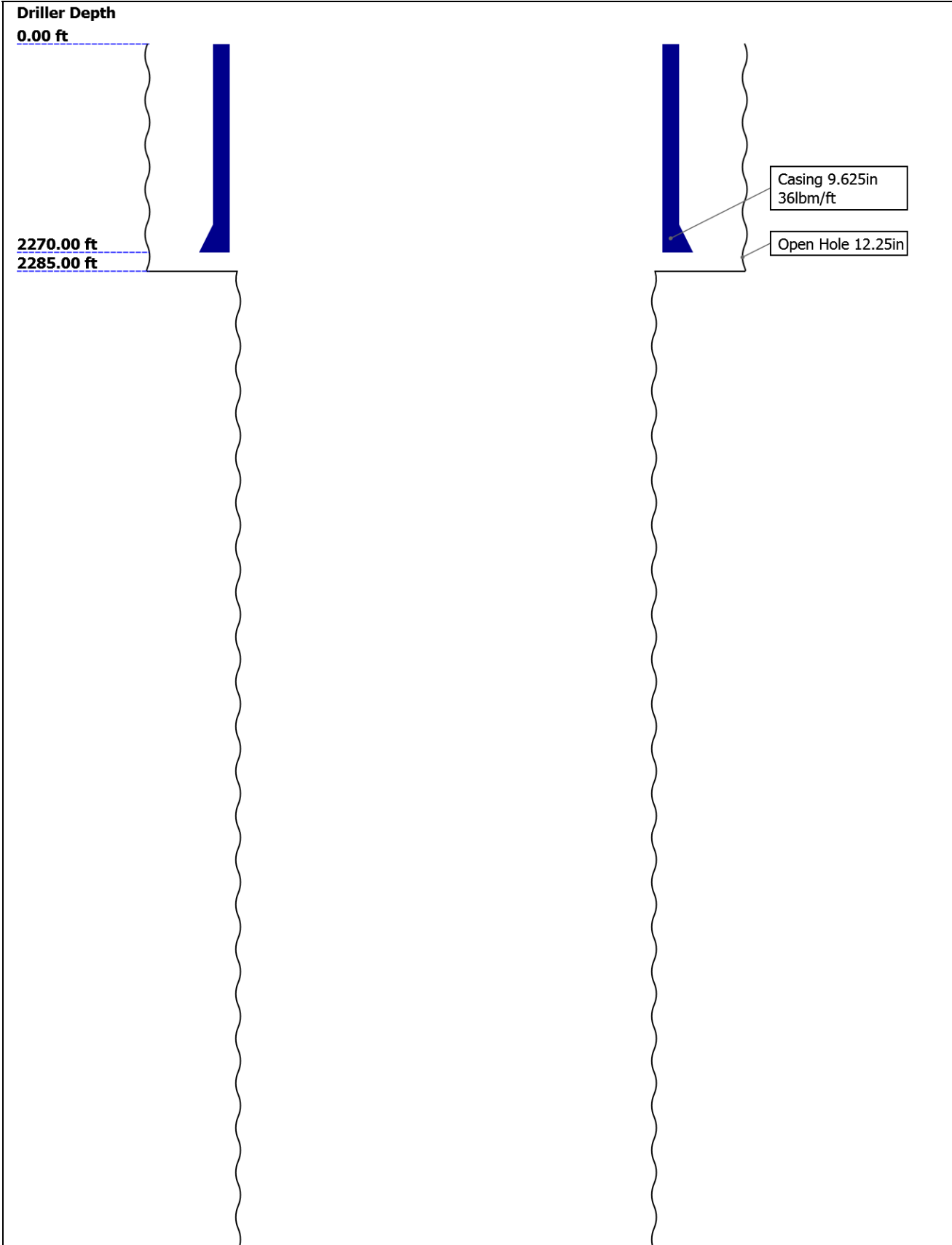
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Well Sketch





## Borehole Size/Casing Record

Bit						
Bit Size ( in )	12.25	8.5				
Top Driller ( ft )	0	2285				
Bottom Driller ( ft )	2285	19820				
Casing						
Size ( in )	9.625					
Weight ( lbm/ft )	36					
Inner Diameter ( in )	8.921					
Grade	N/A					
Top Driller ( ft )	0					
Bottom Driller ( ft )	2270					

## Operational Run Summary

Parameter ( unit )	Run001					
Date Log Started	04-Oct-2019					
Time Log Started	20:20:22					
Date Log Finished	10-Oct-2019					
Time Log Finished	19:19:08					
Bit Size ( in )	8.500					
Bit Start Depth ( ft )	2285.00					
Bit Stop Depth ( ft )	19820.00					
Top Log Interval ( ft )	2285.00					
Bottom Log Interval ( ft )	19795.00					
Max Hole Deviation ( deg )	93.44					
Azimuth of Max Deviation ( deg )	359.91					
Logging Unit Number	Client Provided					
Logging Unit Location	Zone 2					
Recorded By	M. Armstrong					
Witnessed By	D. Ace					
Service Order Number	19CCO1344					

## Borehole Fluids

## Remarks and Equipment Summary

Run001: Toolstring[illegible]

Run001: Remarks
All Data Presented is from Real Time Data and acquired while drilling.
Depth is referenced to Driller's Depth
Barite was present in the mud.
Run Objective: Drill curve and lateral to Well TD.
Reason to POOH: Well TD.
Drill Interval: 2285 ft MD to 19820 ft MD.
Logged Interval: 2285 ft MD to 19795 ft MD.
MWD Personnel: M. Armstrong

XEM650:56524HS 42.37

GAP650:GSBR0881  
XEM650DC:56524HS  
DPG:DDRP020  
XHOP:XHOP0014K  
XTX:HVTX0886  
DYN:SOCD1209  
BAT:DOBA2278  
XGM:XGM0713  
DNI:SOCD1209

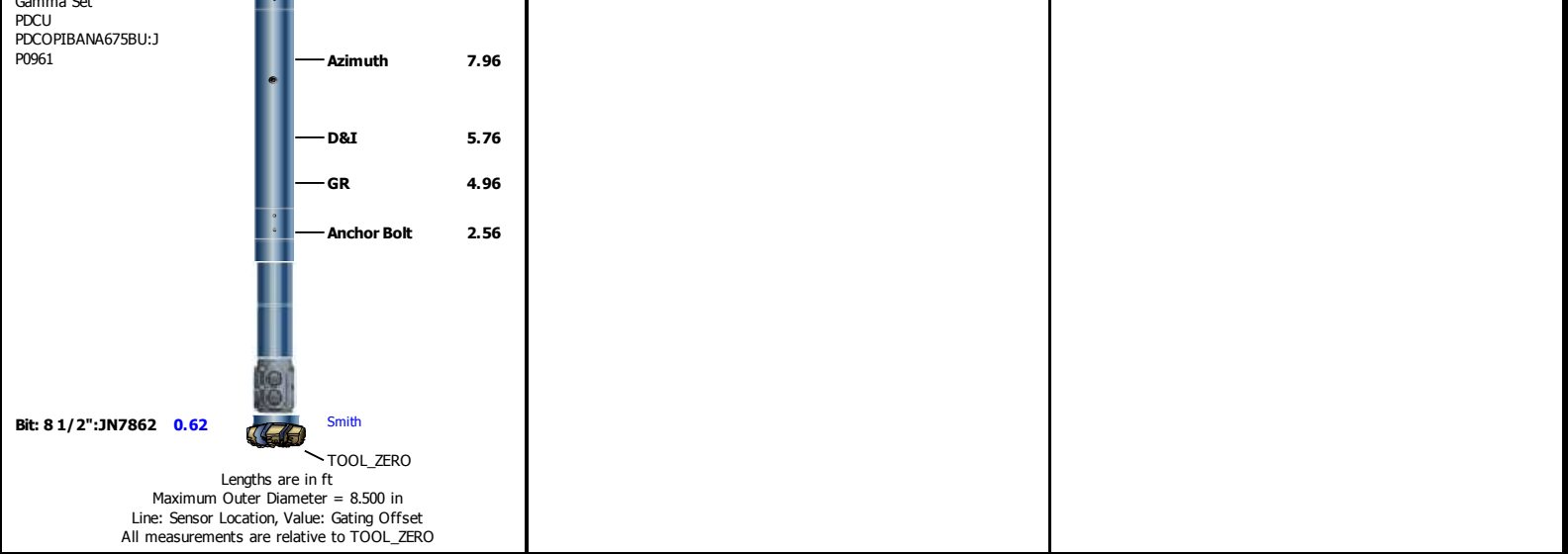
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ANN PRES 39.81  
TEMP 39.81

GR 24.5

D&I 19.91

PDCOPIBANA\_675: 9.63  
JP0961

PD675CC:ENP-054  
Impeller Set  
Compressor Set



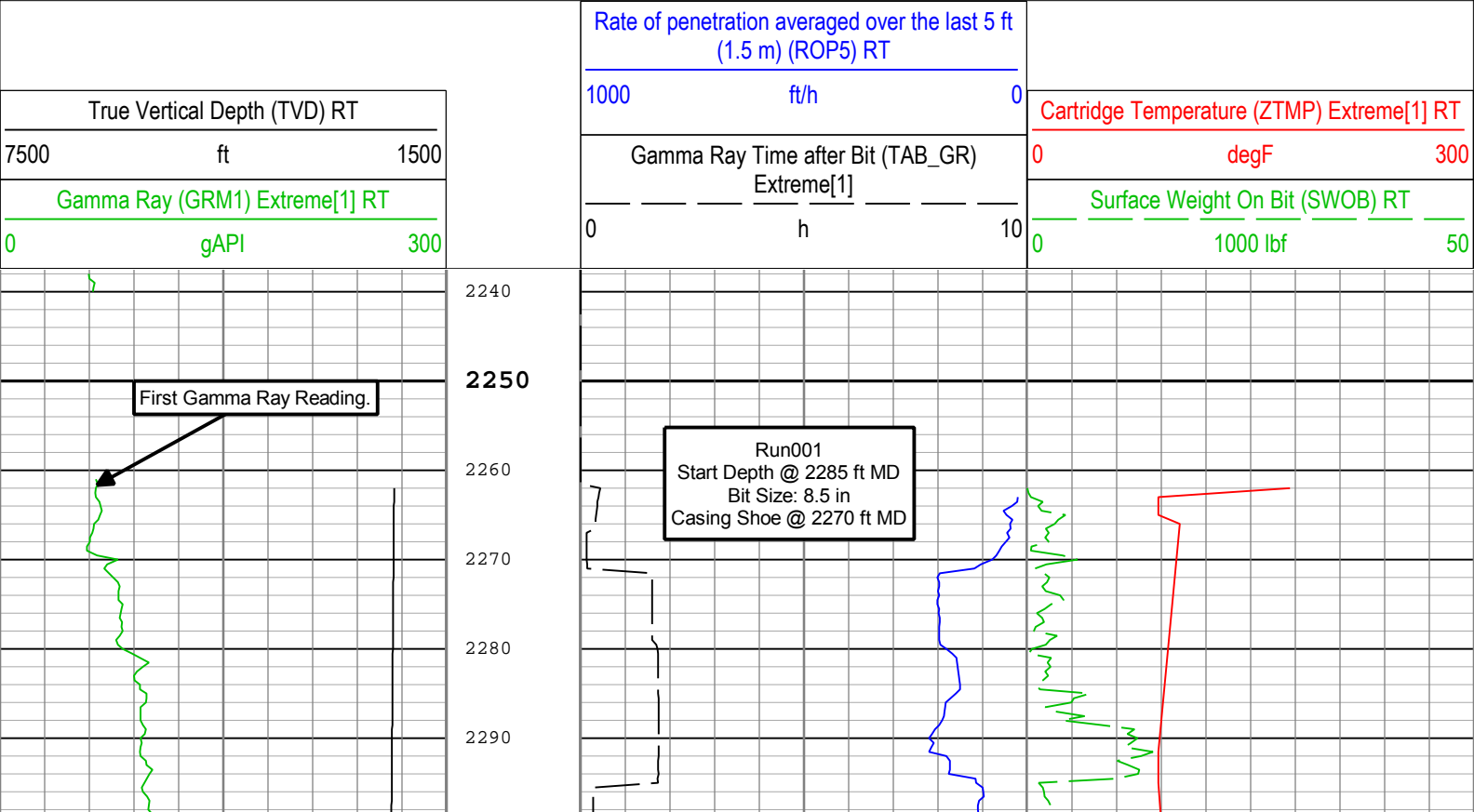
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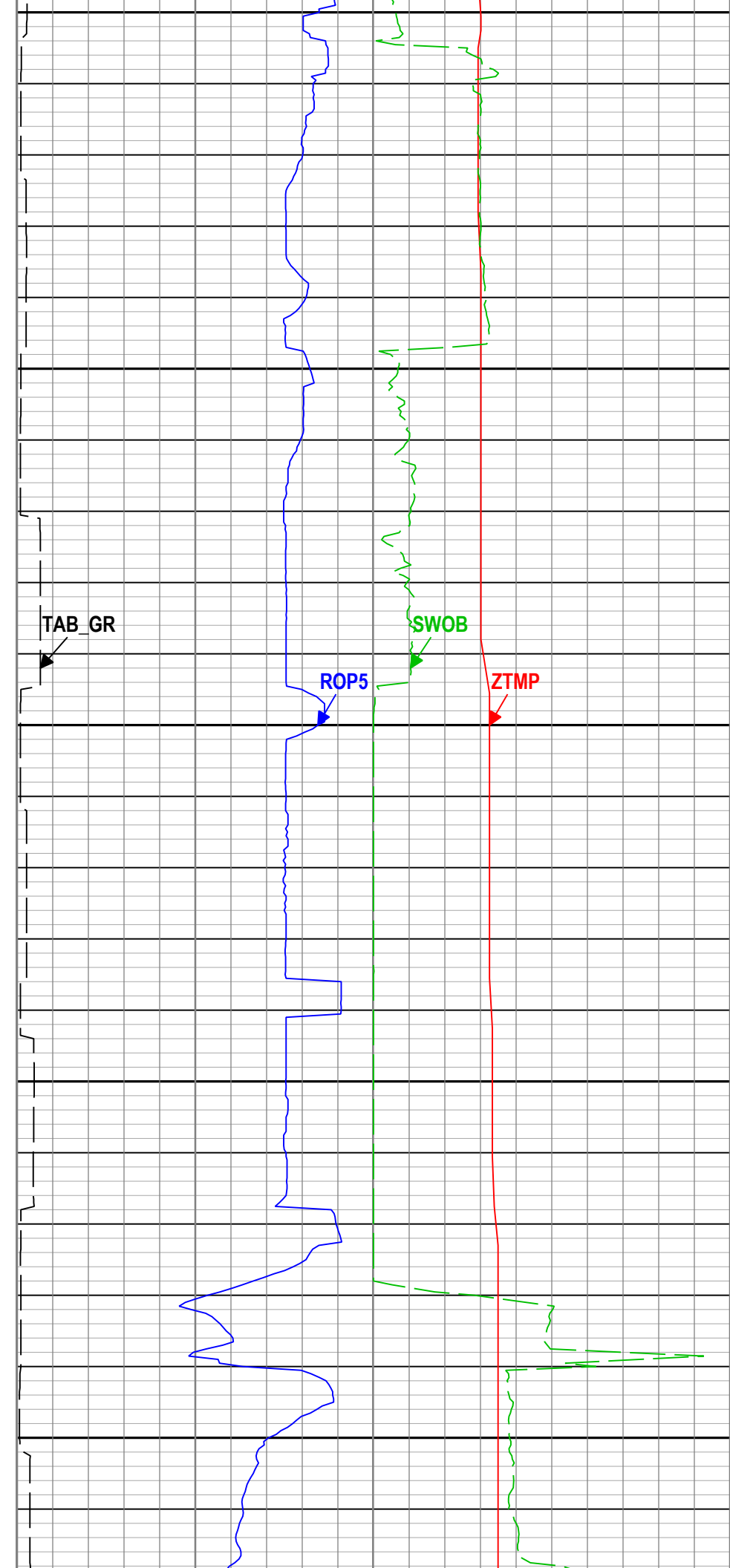
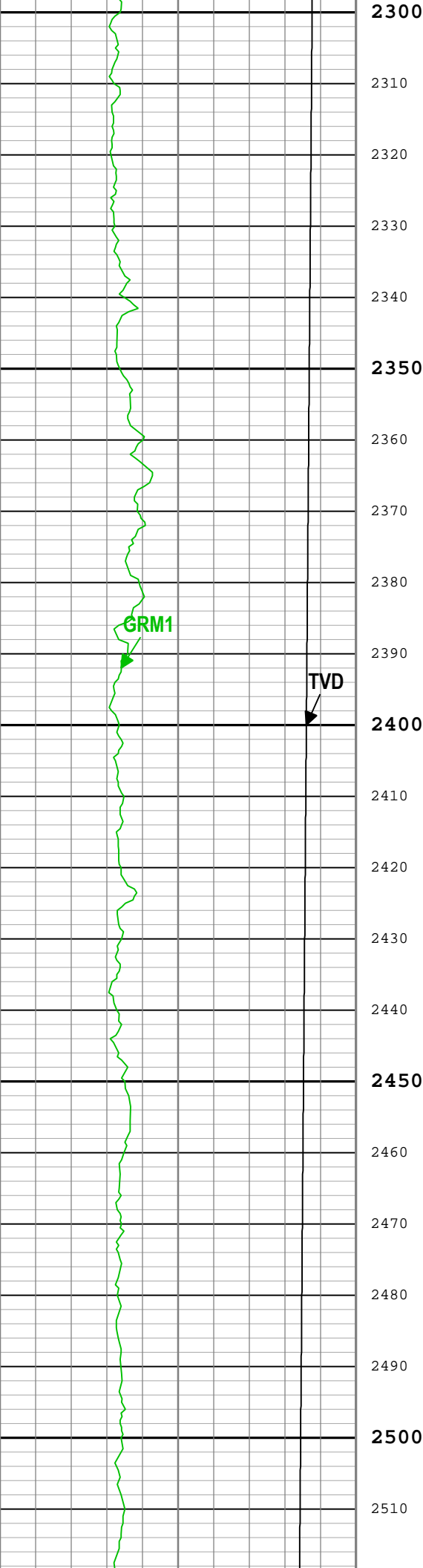
Software Version	
Acquisition System	Version
Maxwell 2018 SP2	8.2.104493.3100
Application Patch	DnM_Hotfix-Mandatory-2018.2_8.2.113262

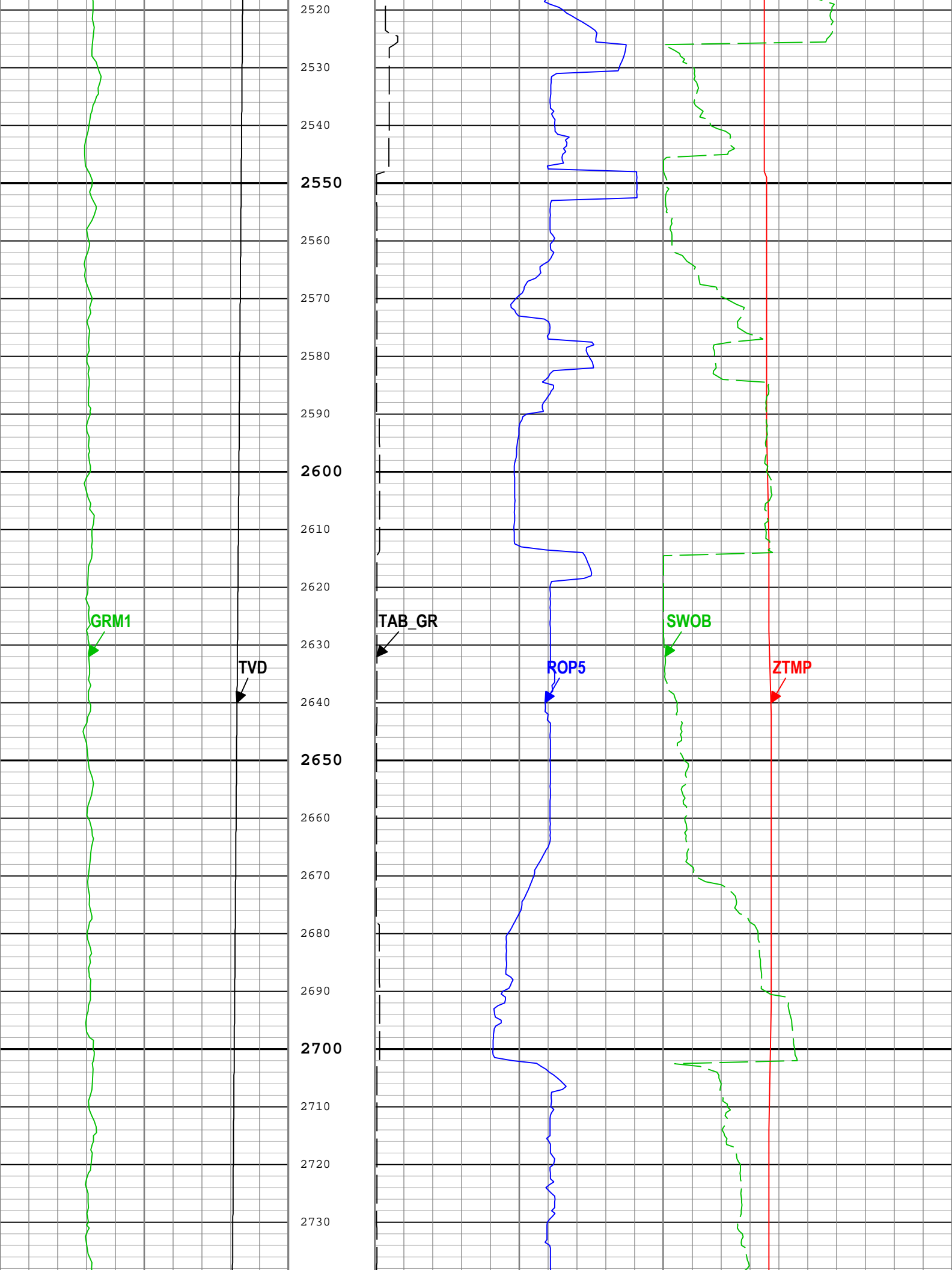
Composite Summary							
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run001	Drilling	Down	2261.83 ft	19820.00 ft	05-Oct-2019 2:17:04 AM	10-Oct-2019 7:19:08 PM	No
All depths are referenced to toolstring zero							

Log	Company: Crestone Peak Resources Operating LLC	Well:Dream Weaver North 3A-21H-N268
Well Composite:S203		

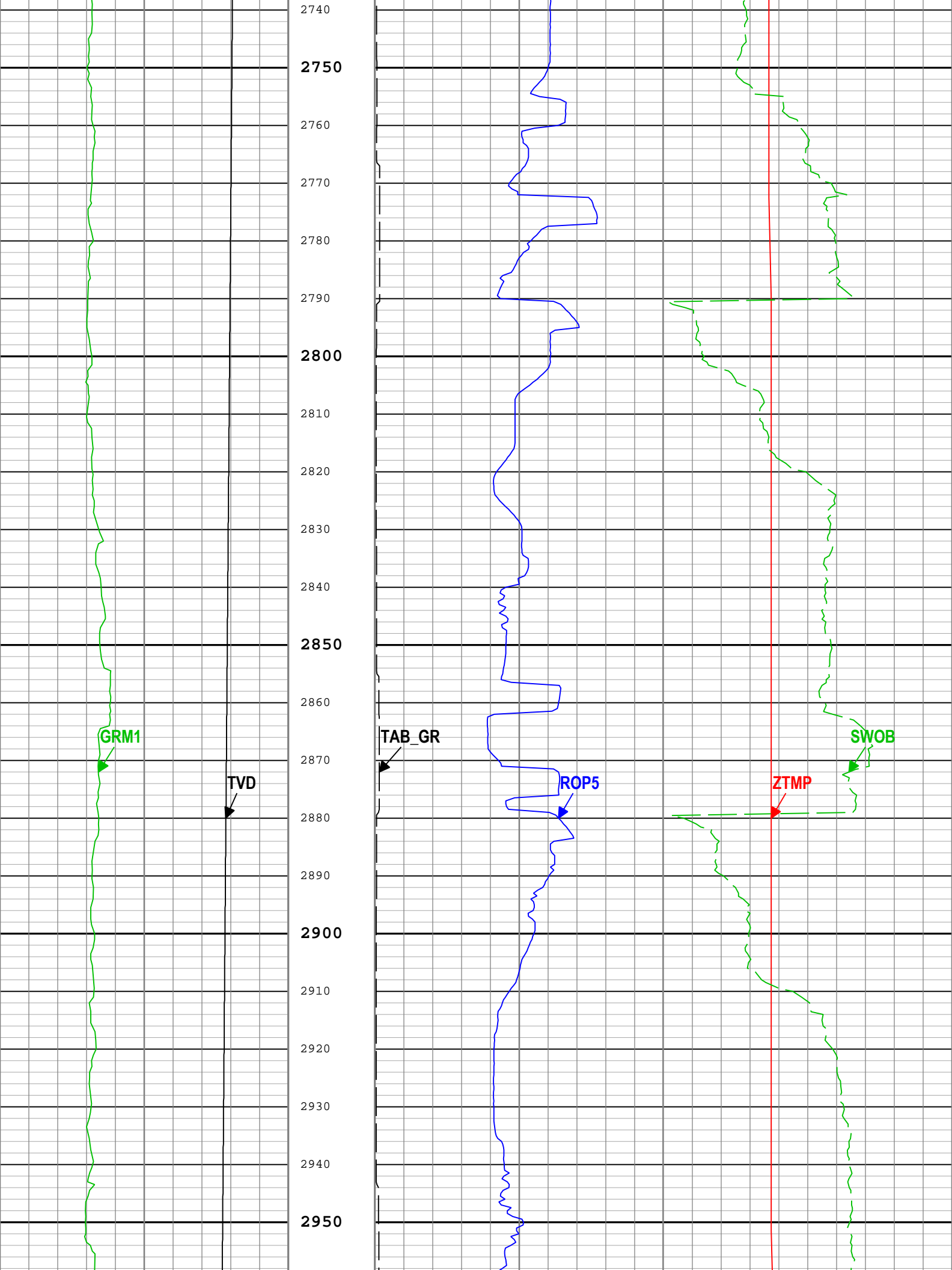
Description: Extreme Gamma Ray 1 RT    Format: Log ( Extreme Gamma Ray 1 RT )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured  
Depth    Creation Date: 16-Oct-2019 12:21:22

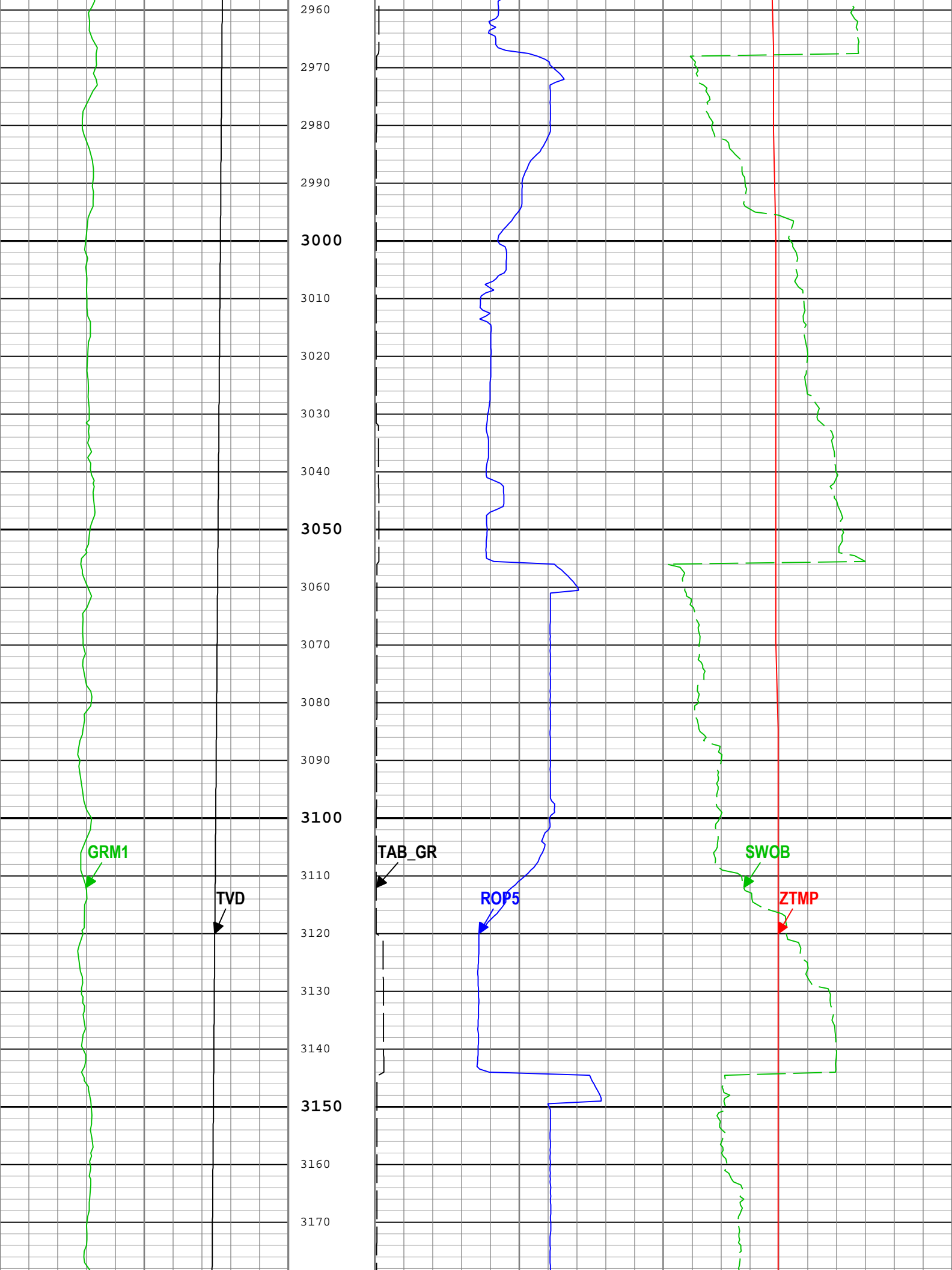


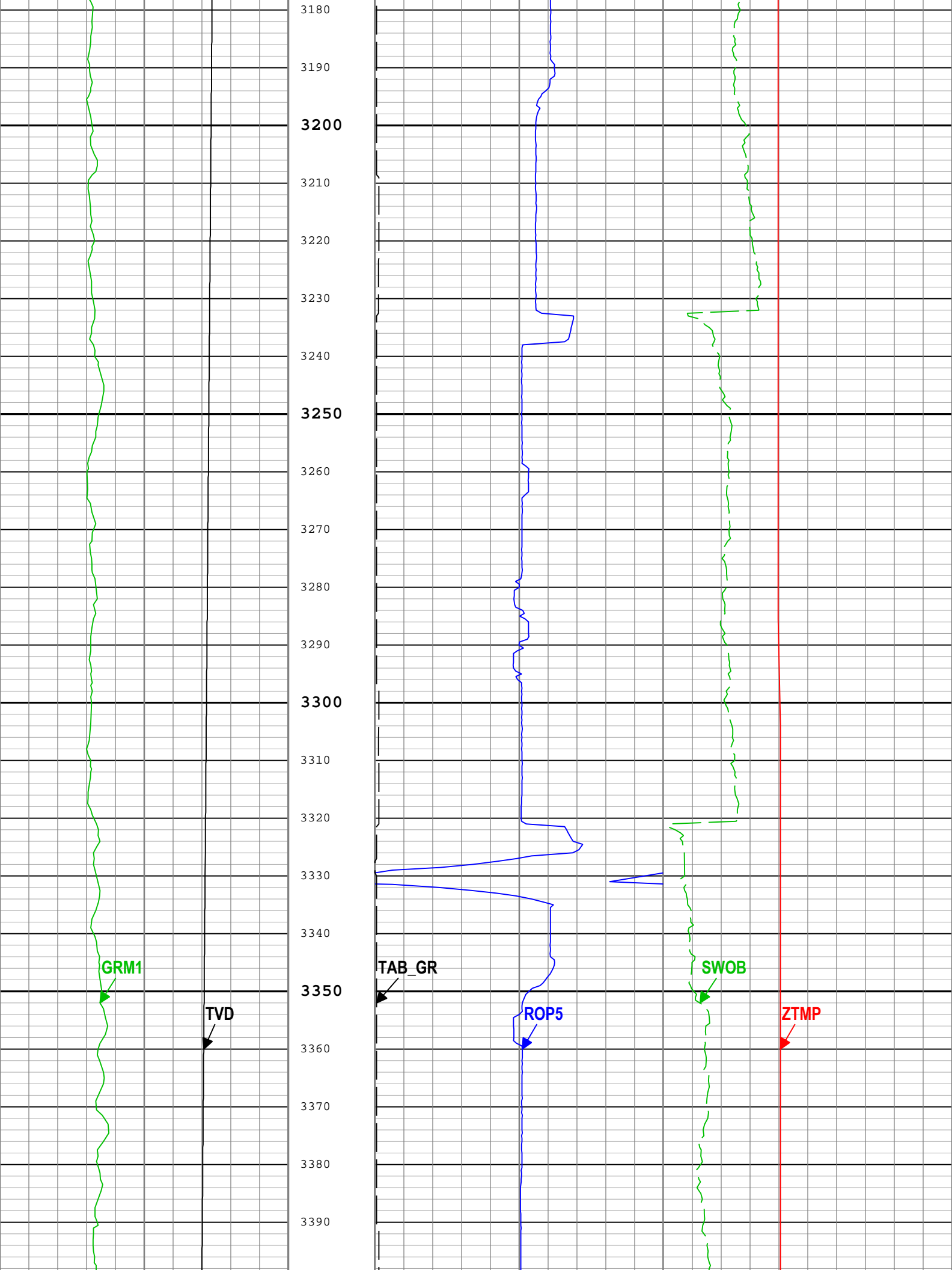


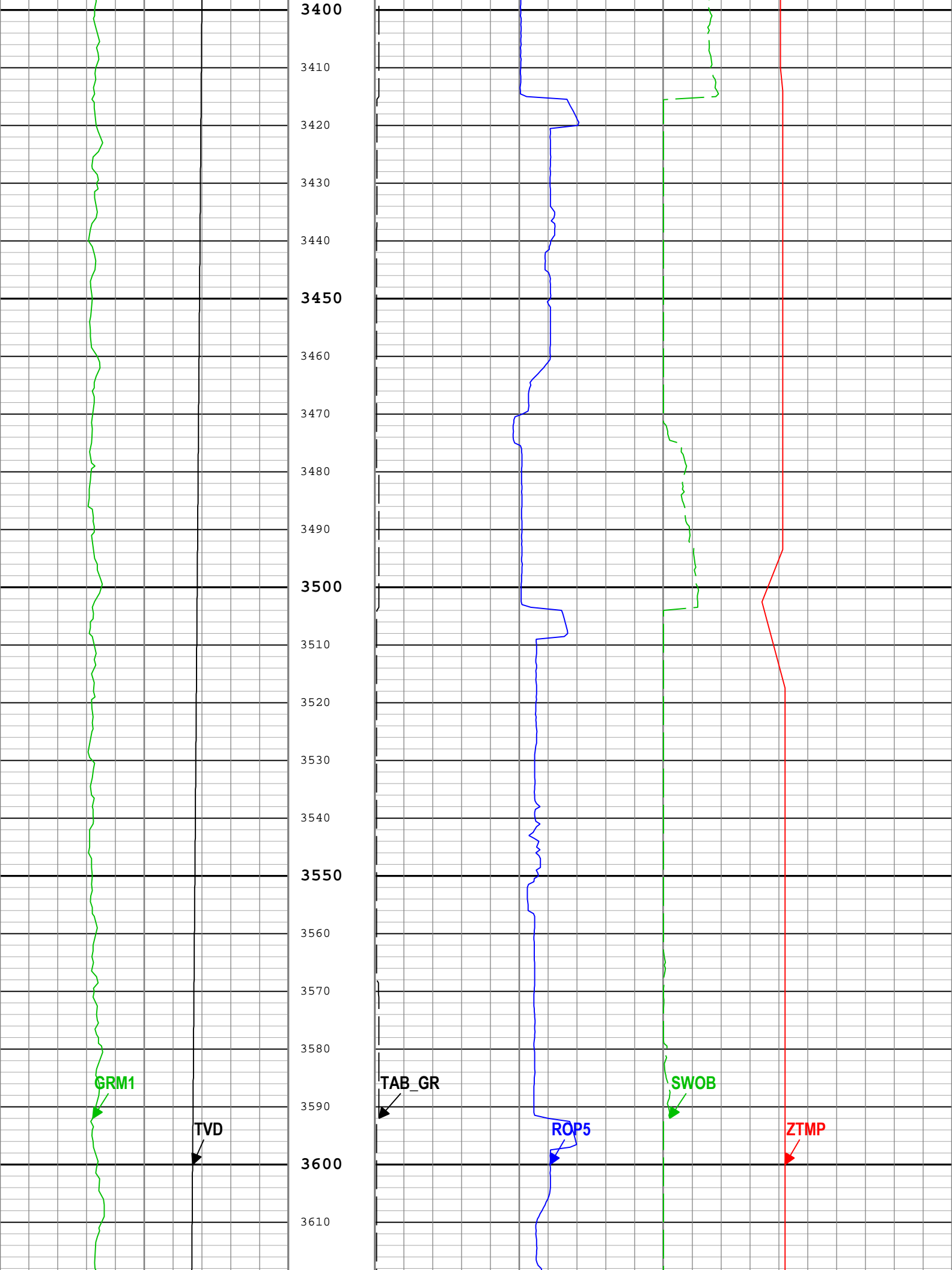


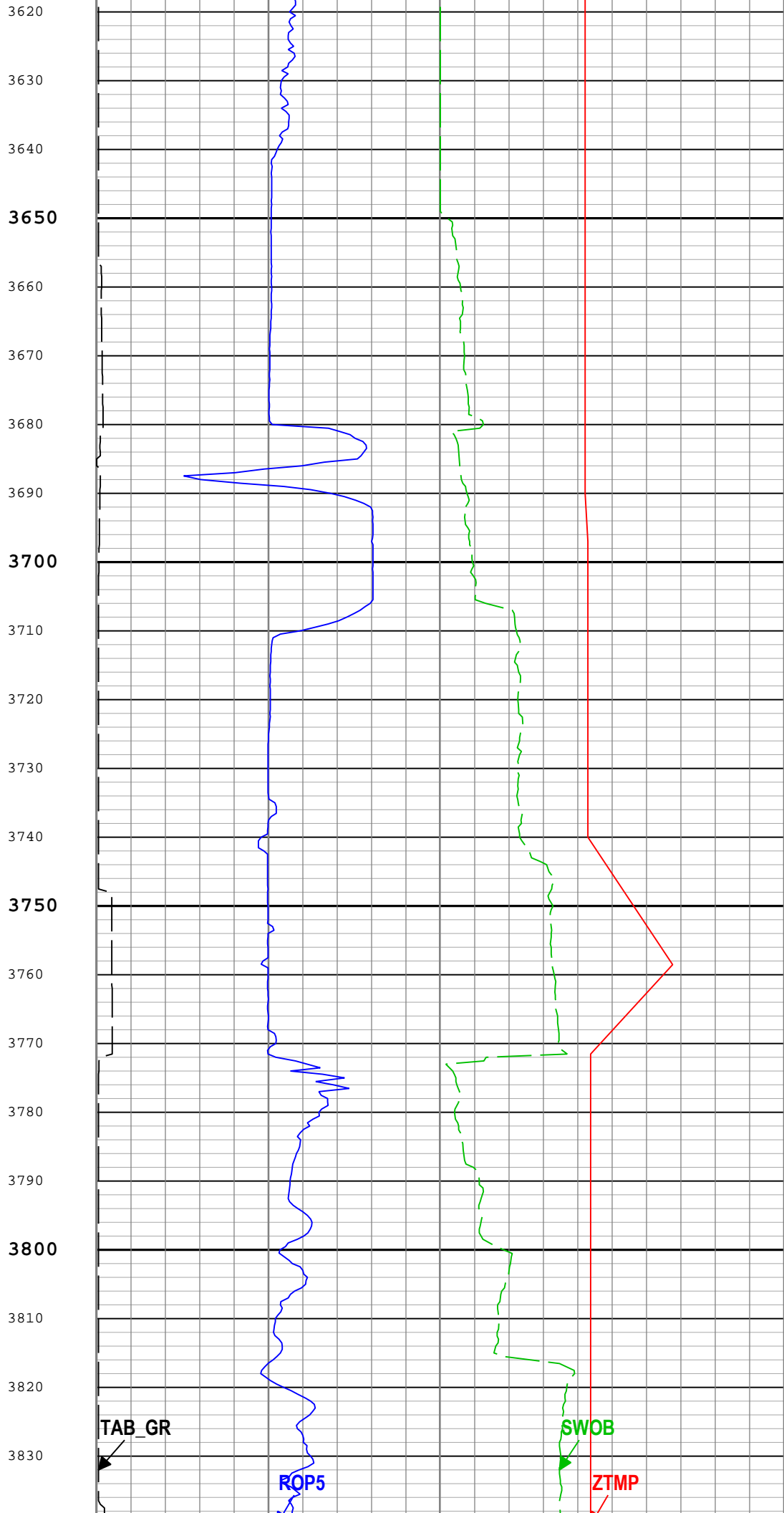
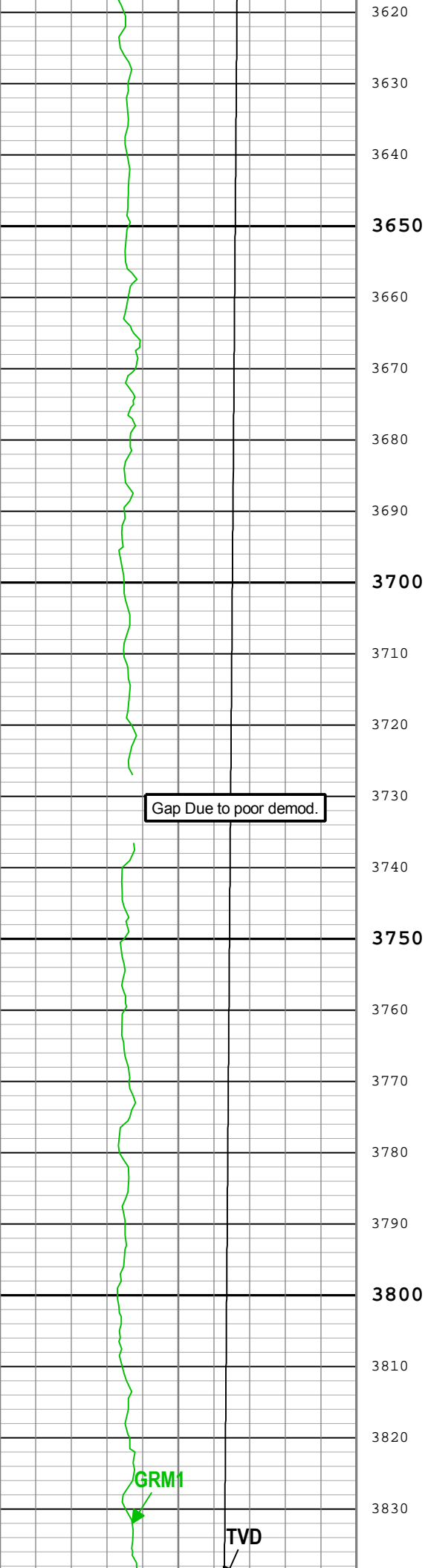


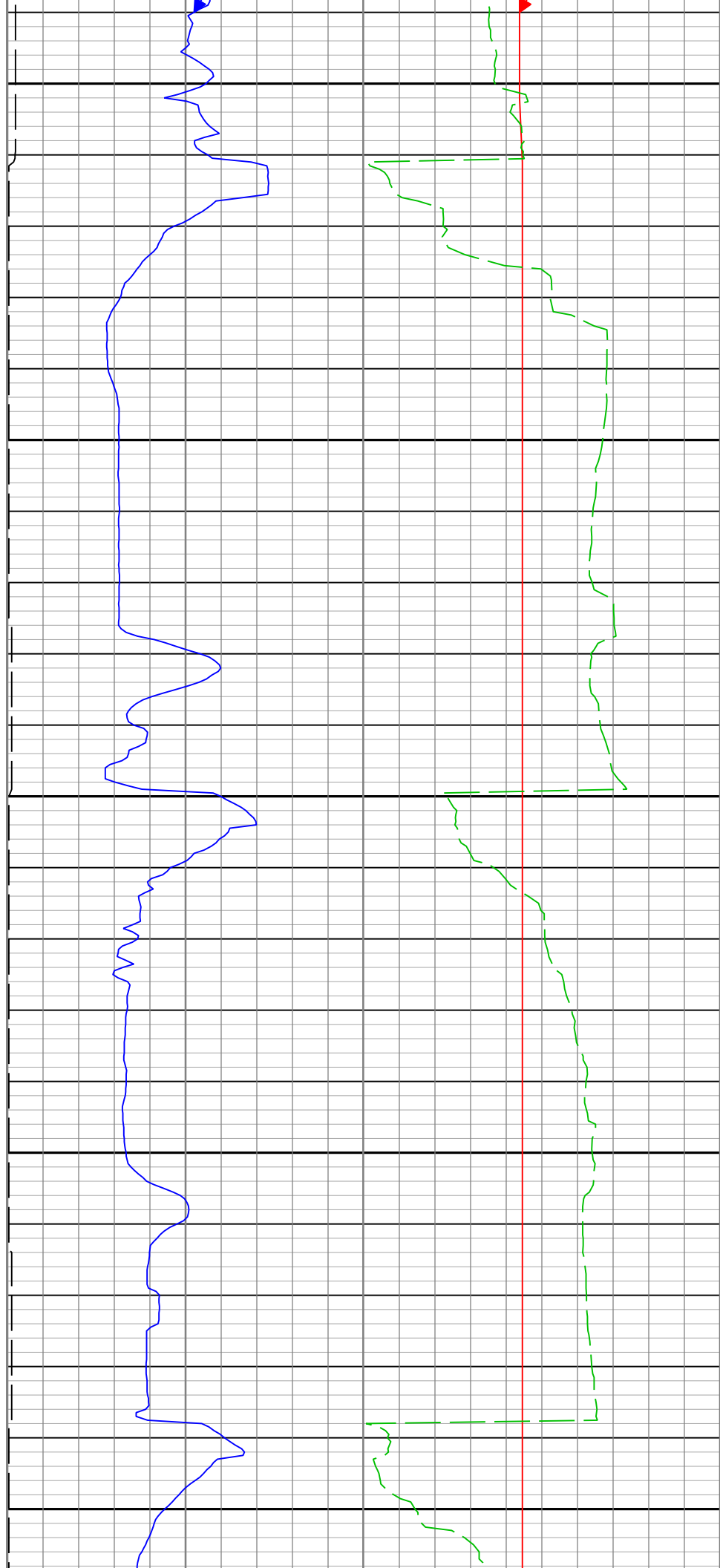
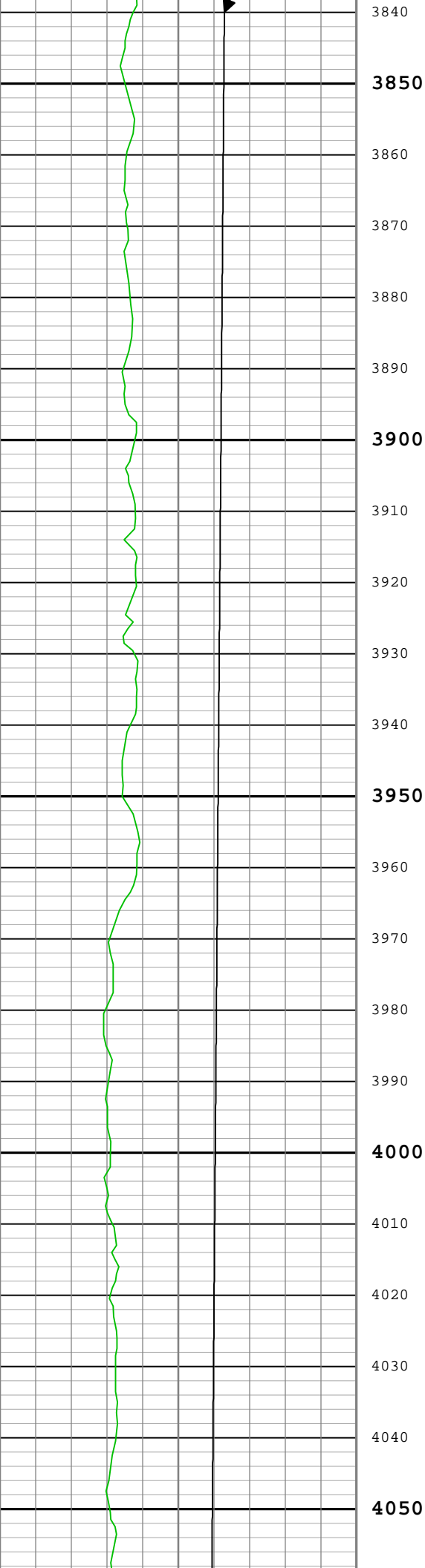


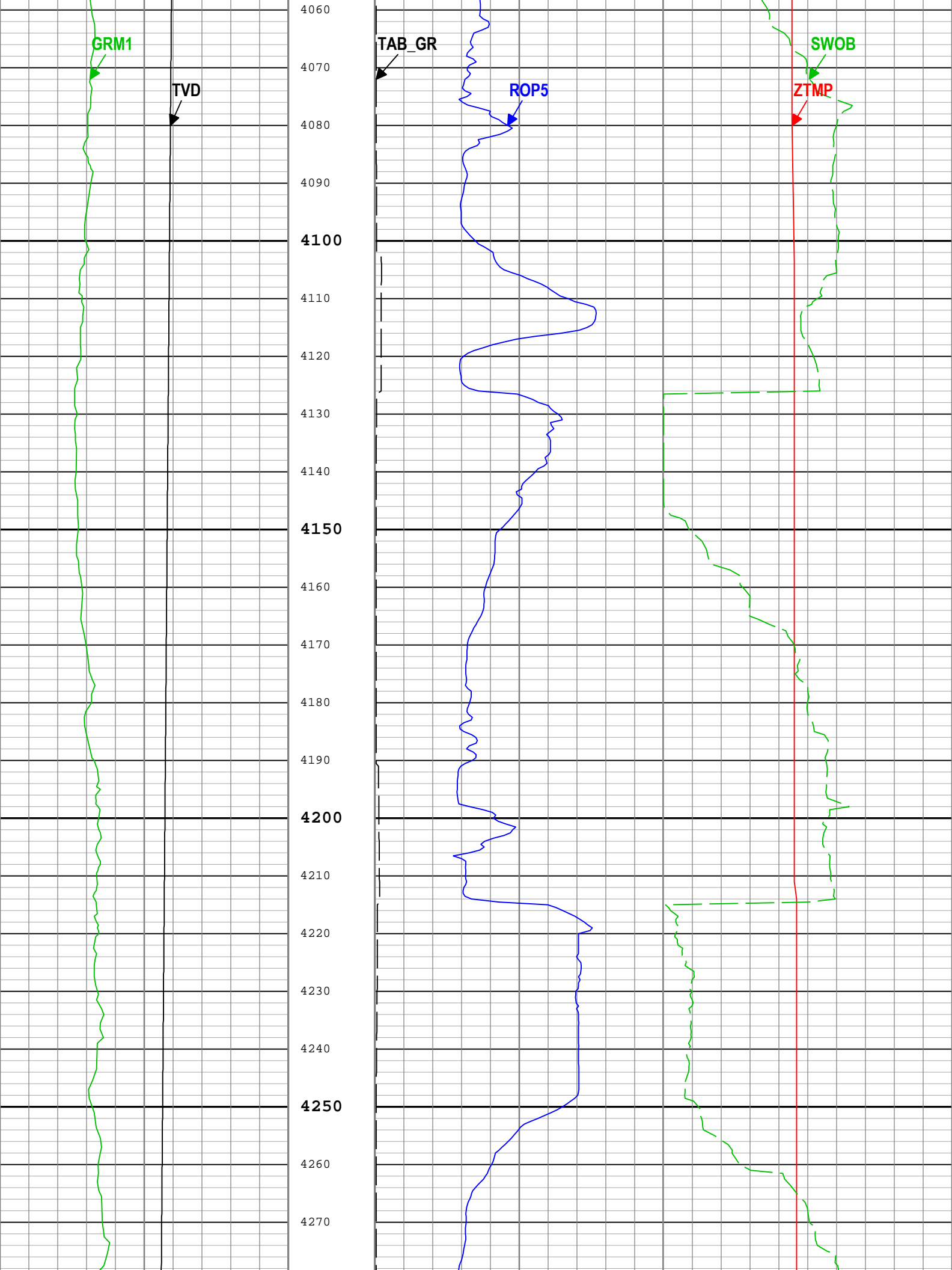


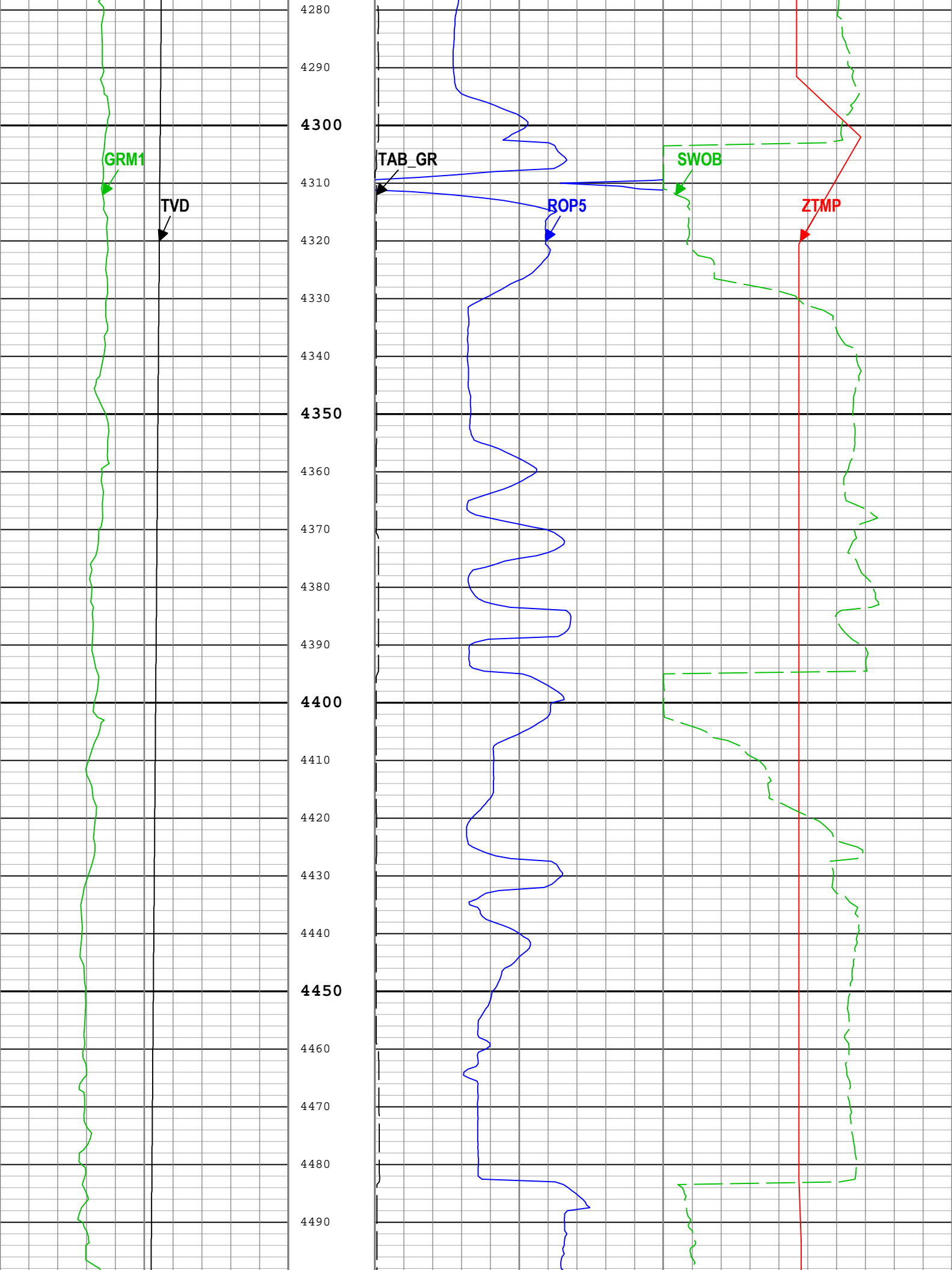




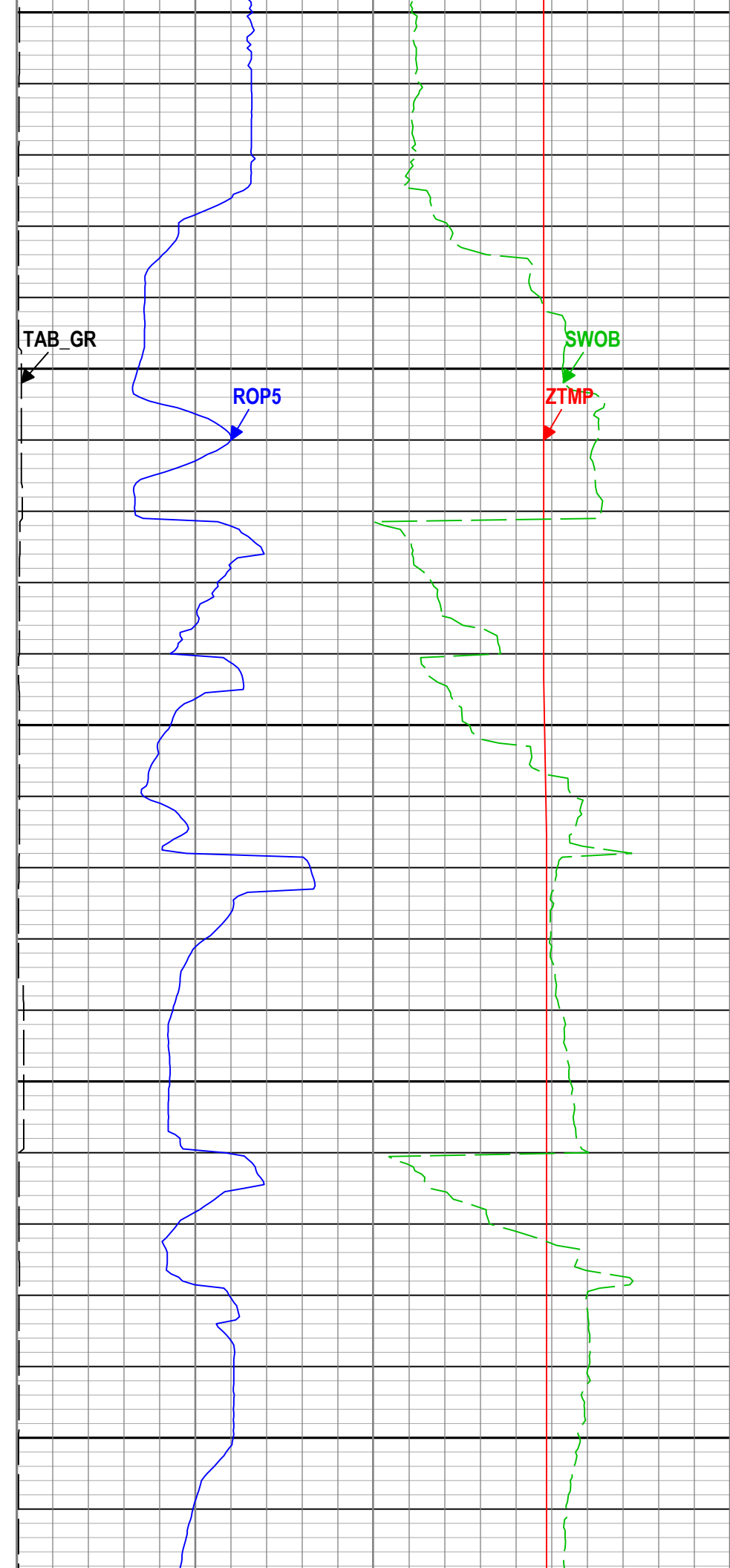
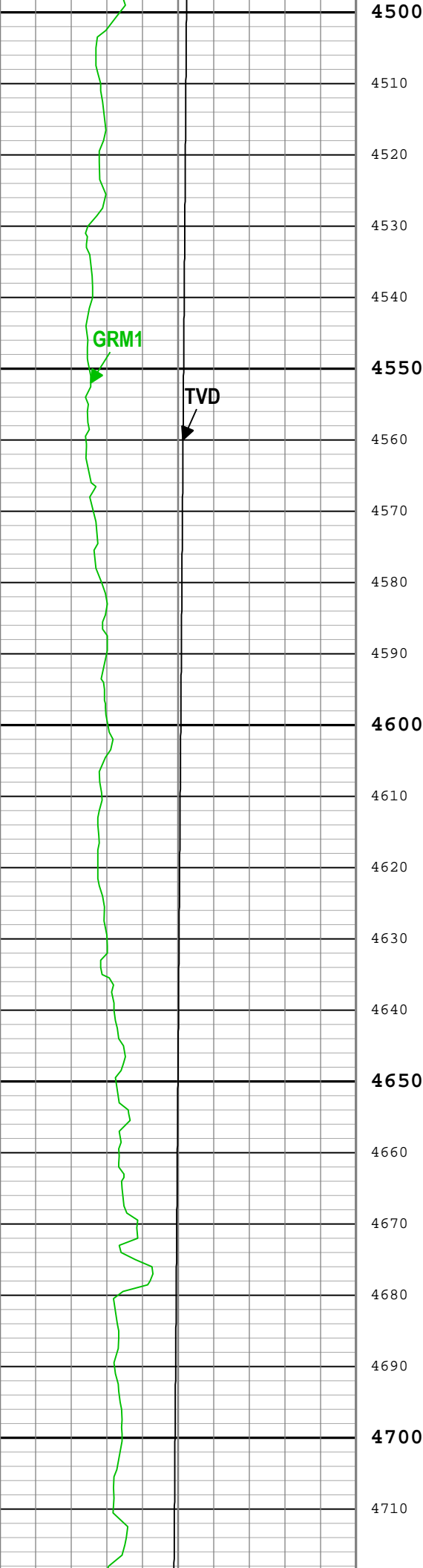


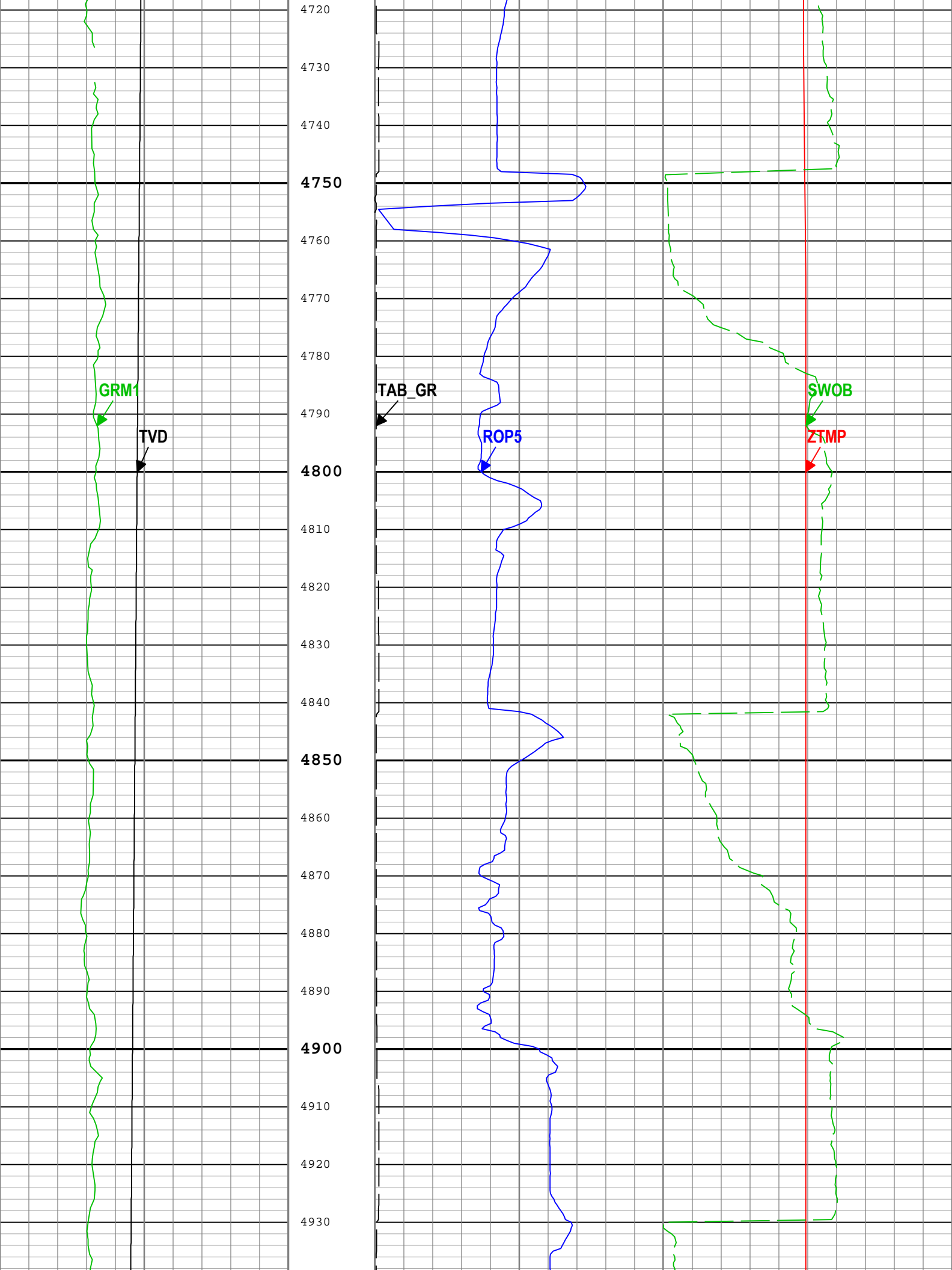


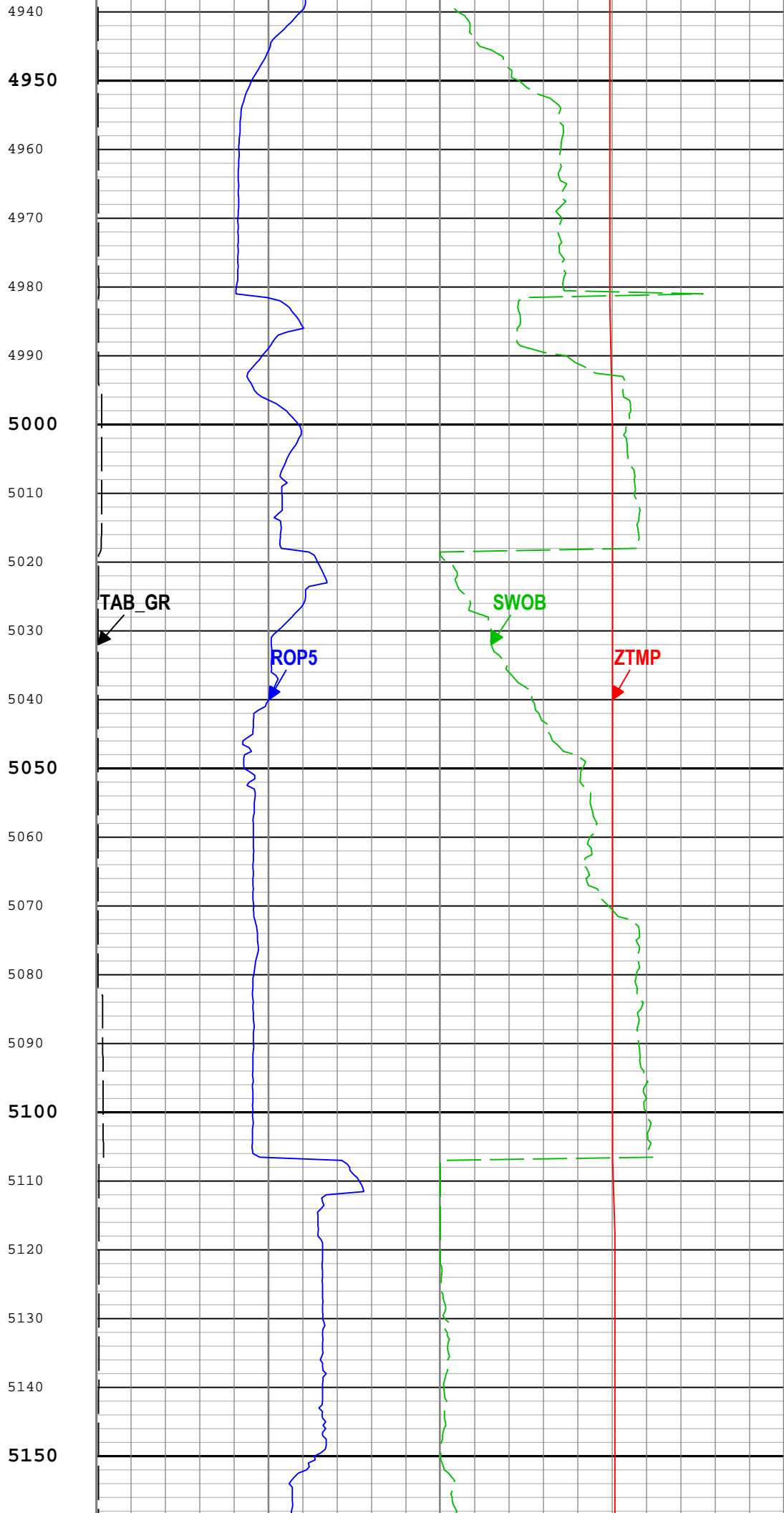
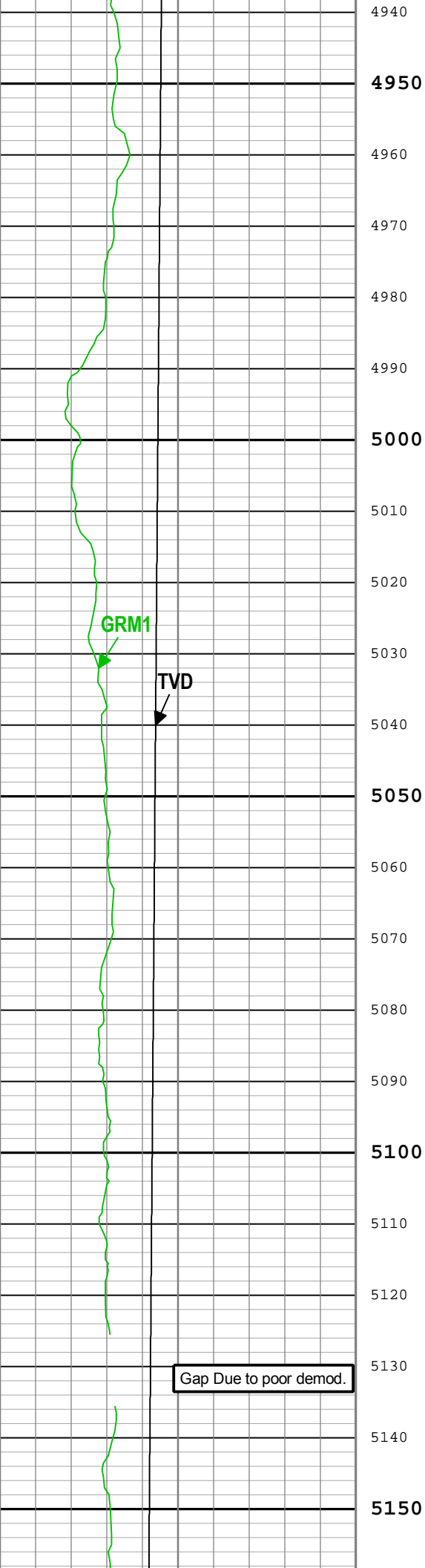


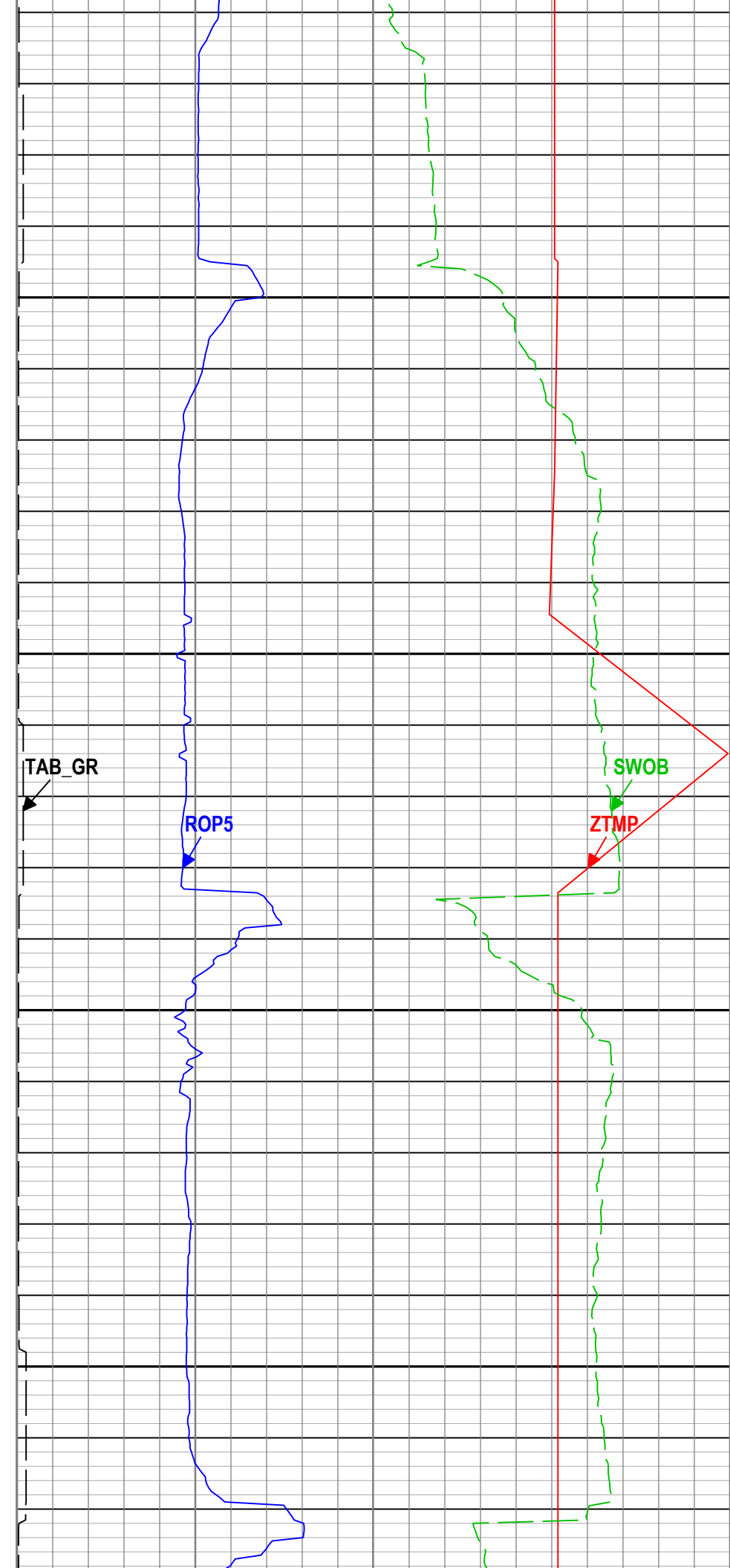
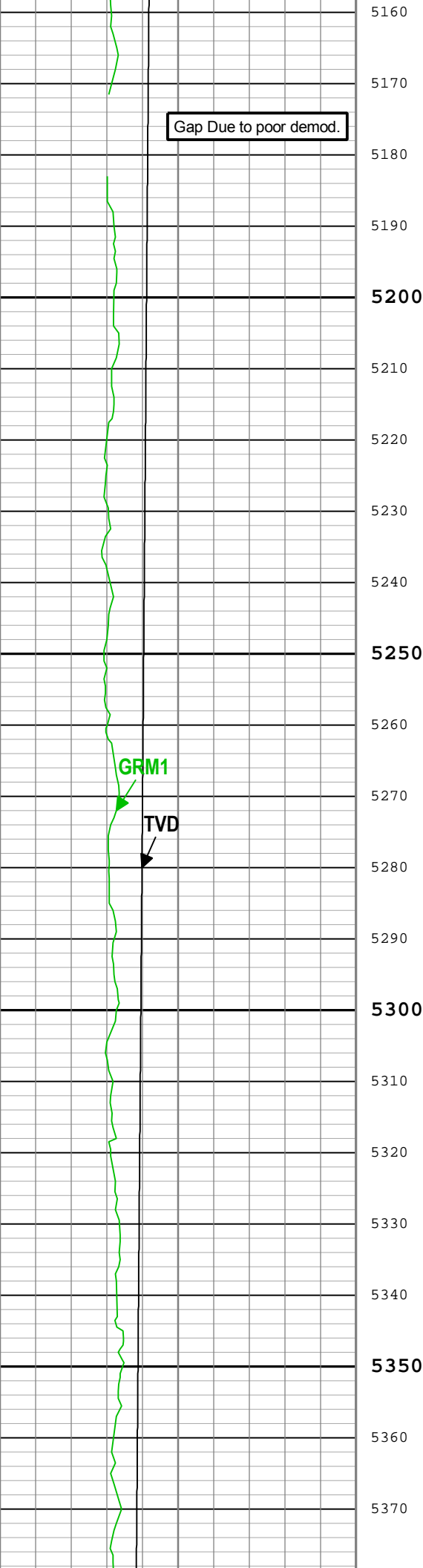


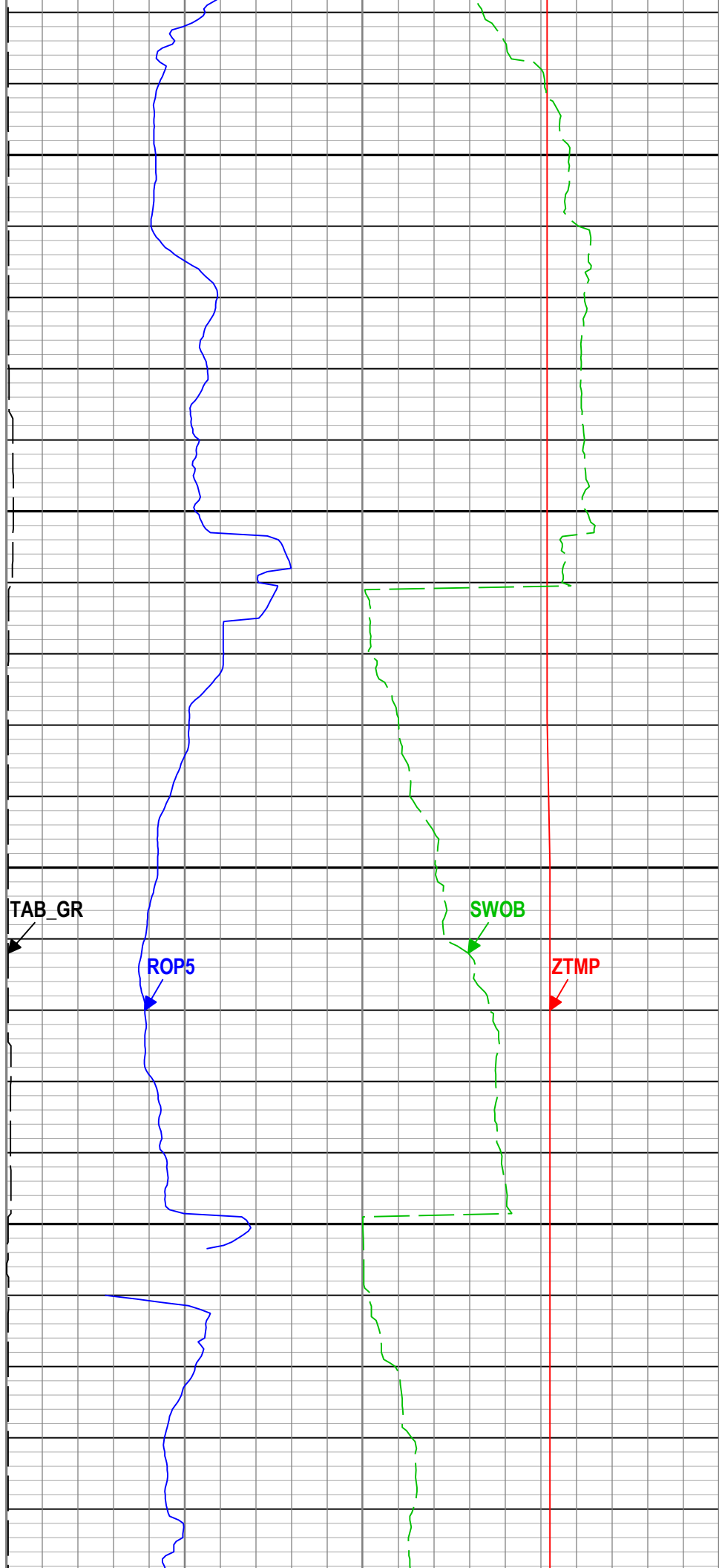
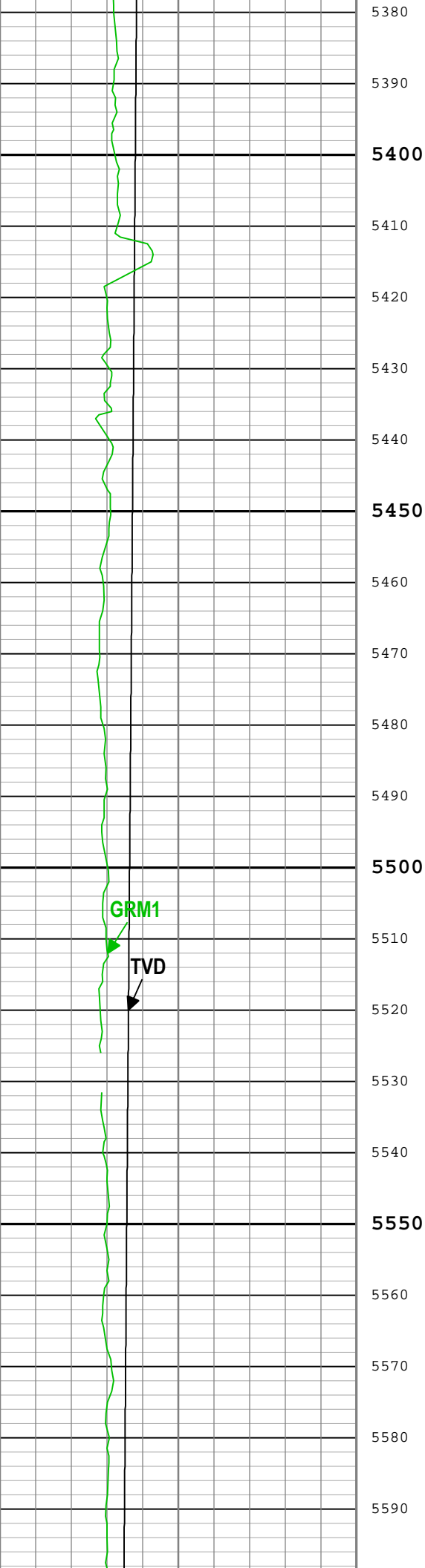


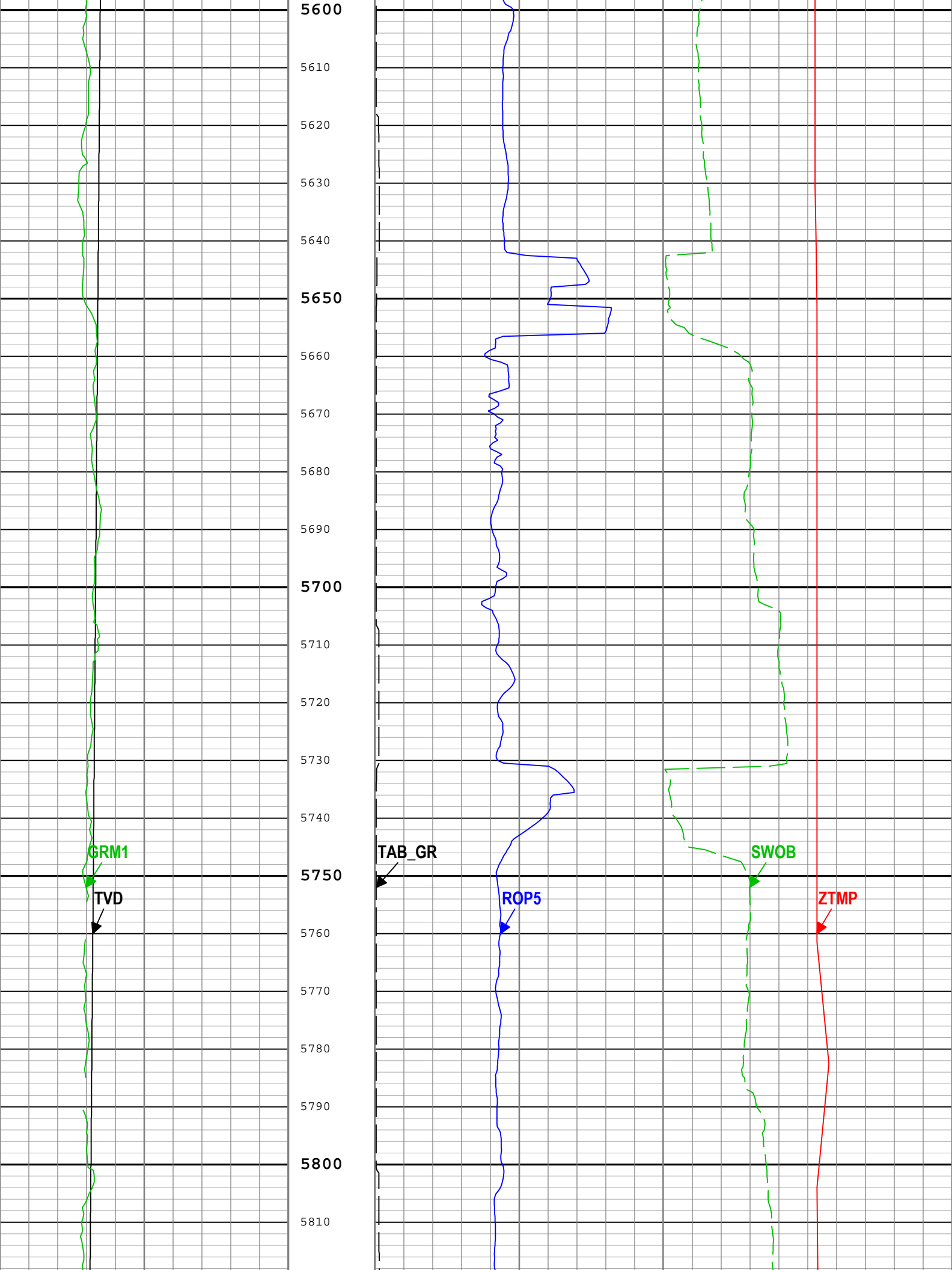


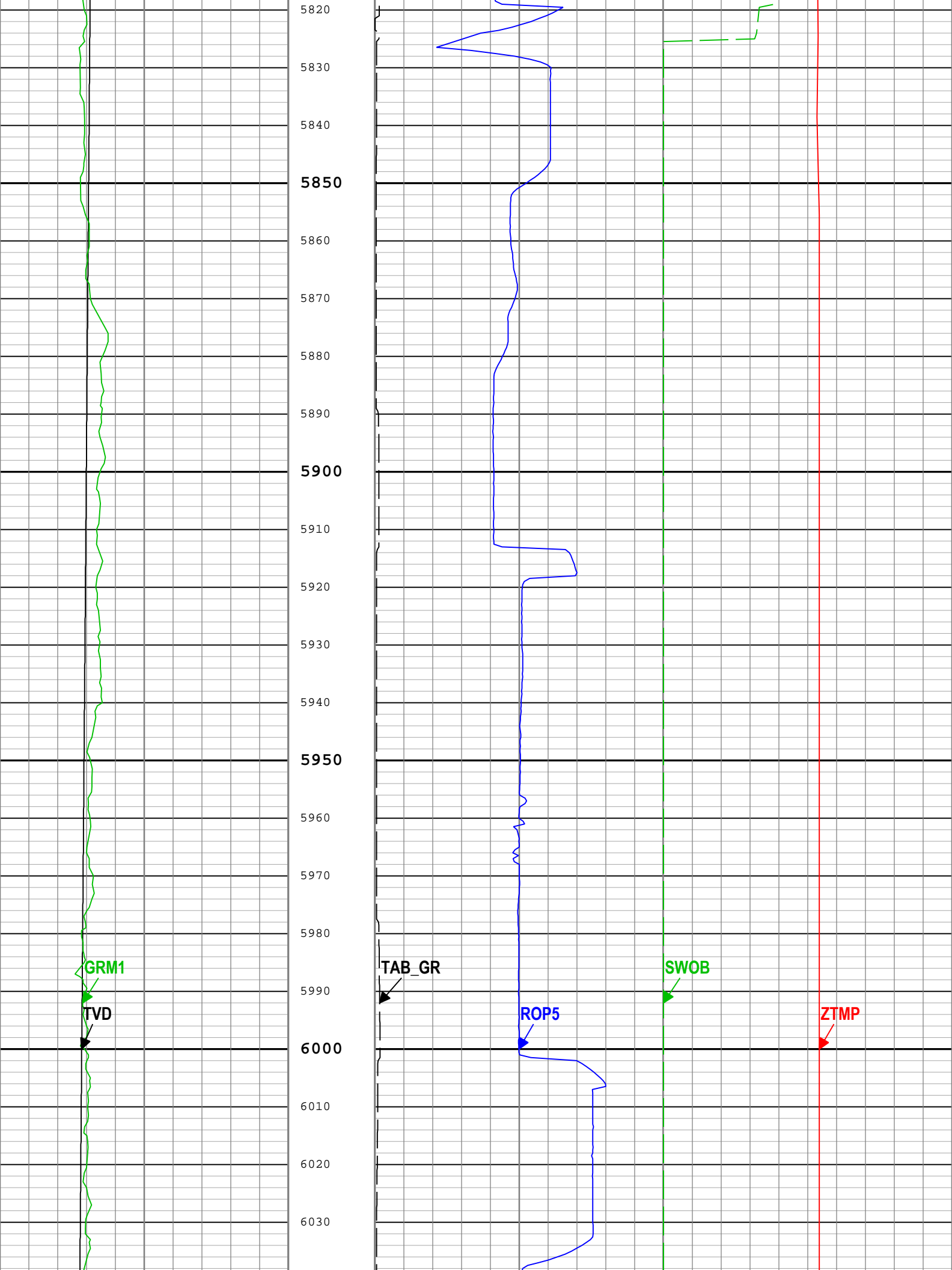


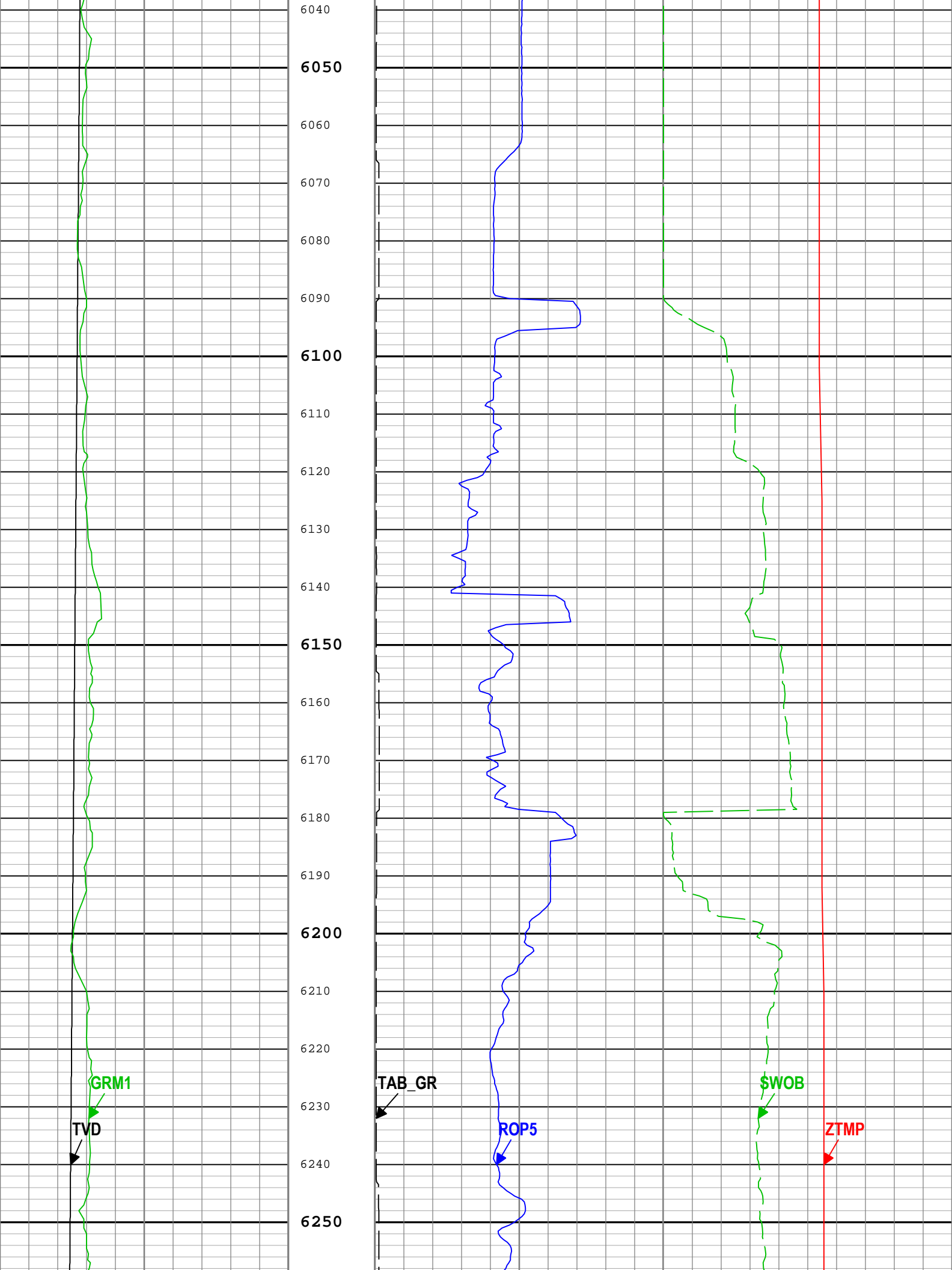




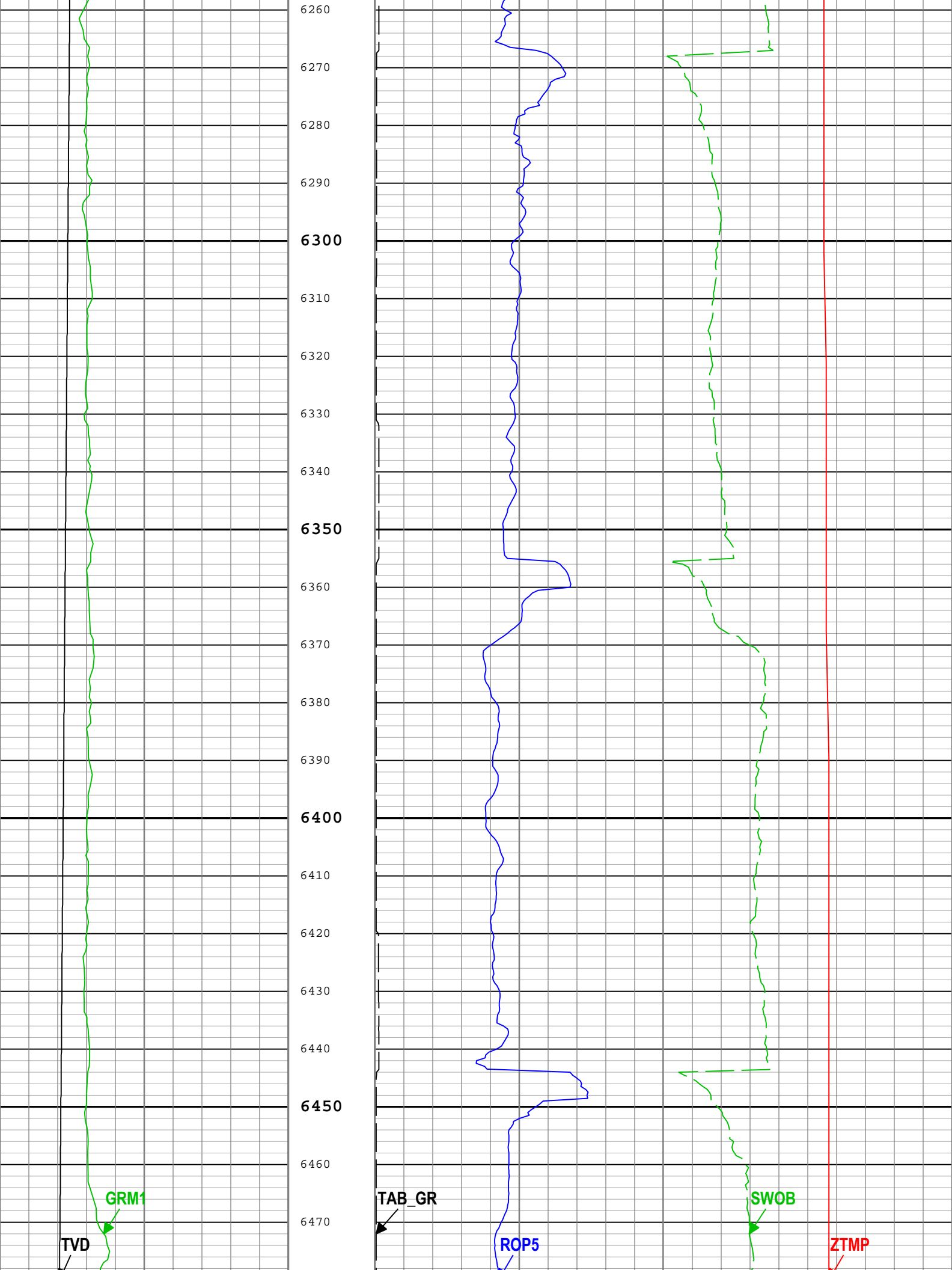


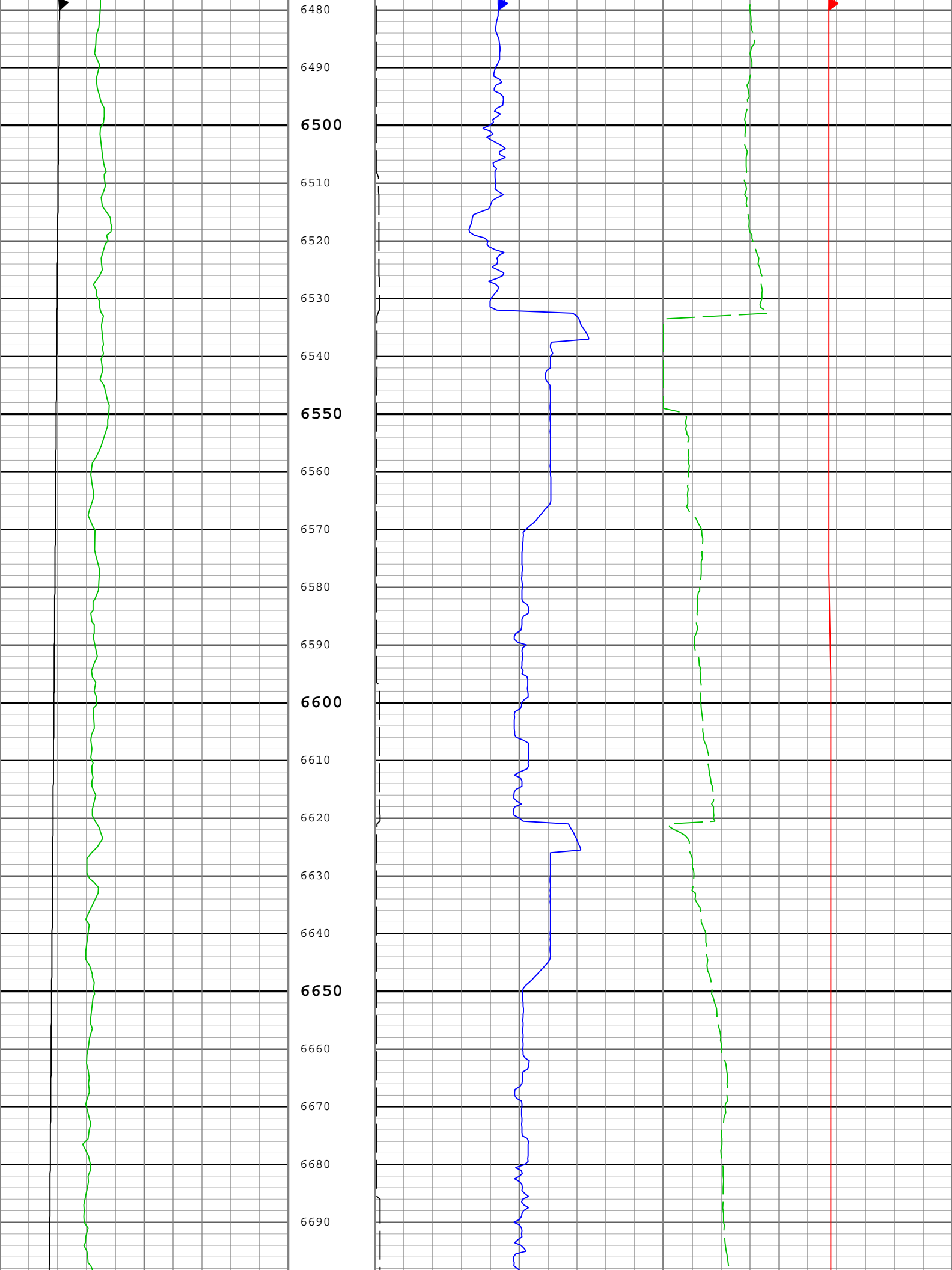


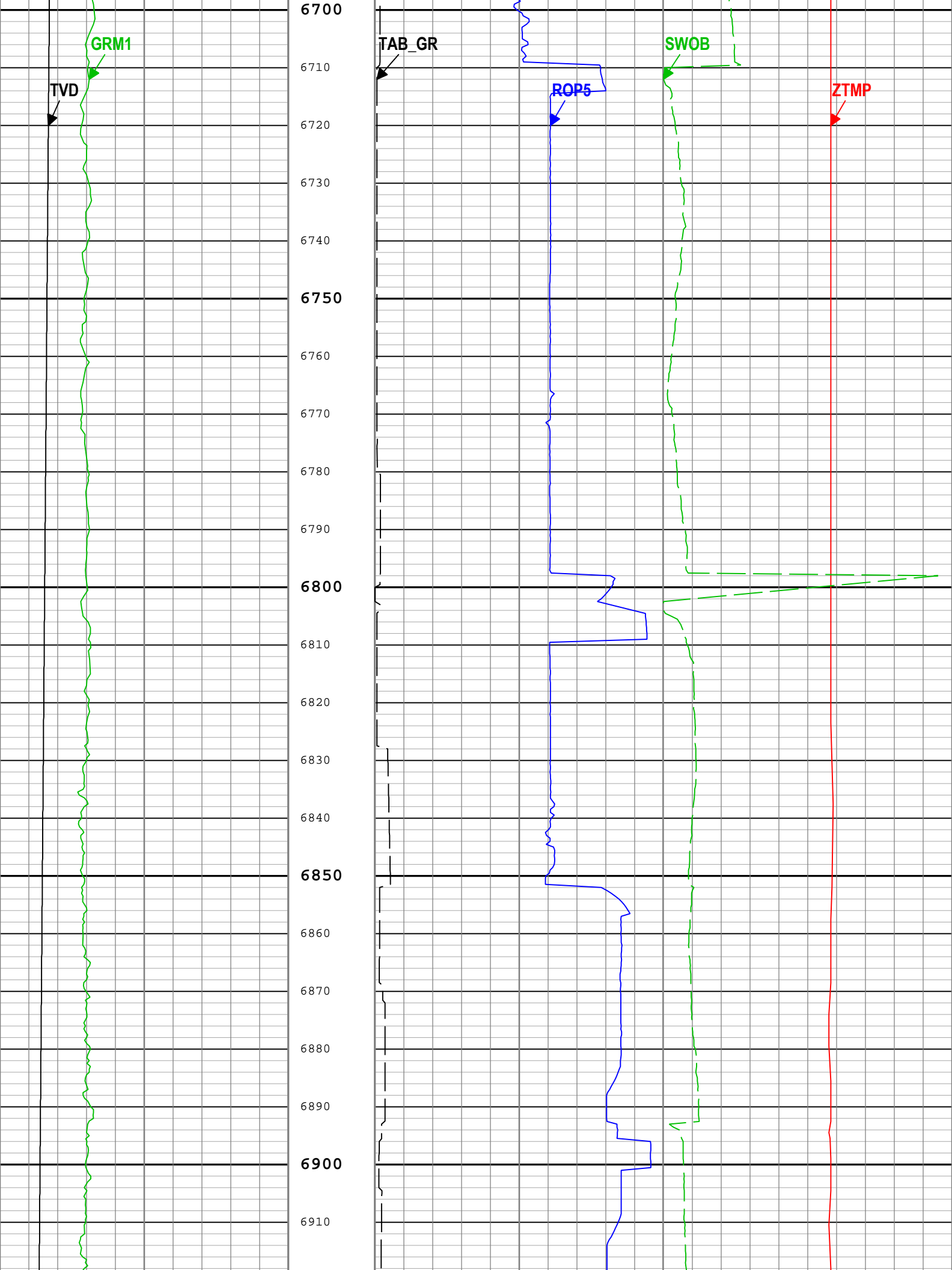


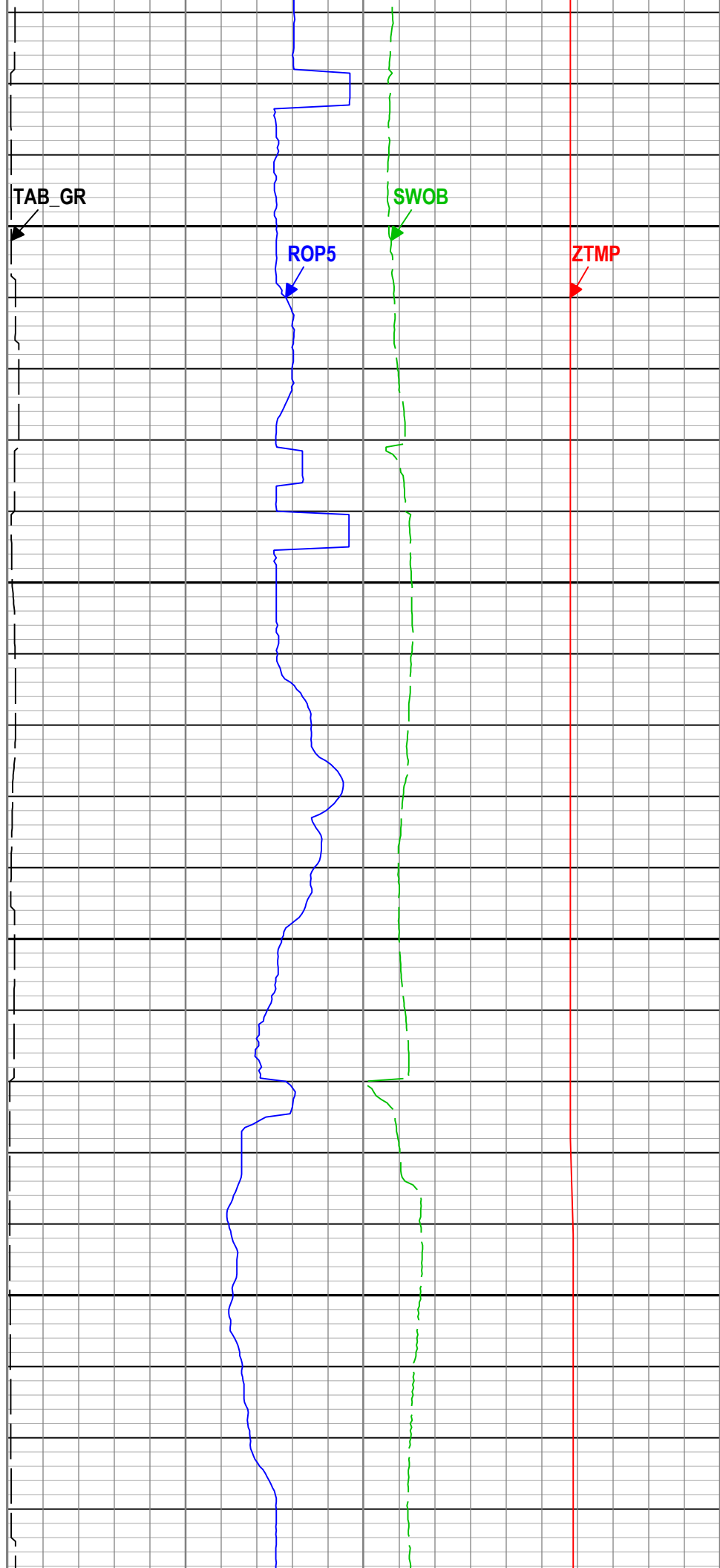
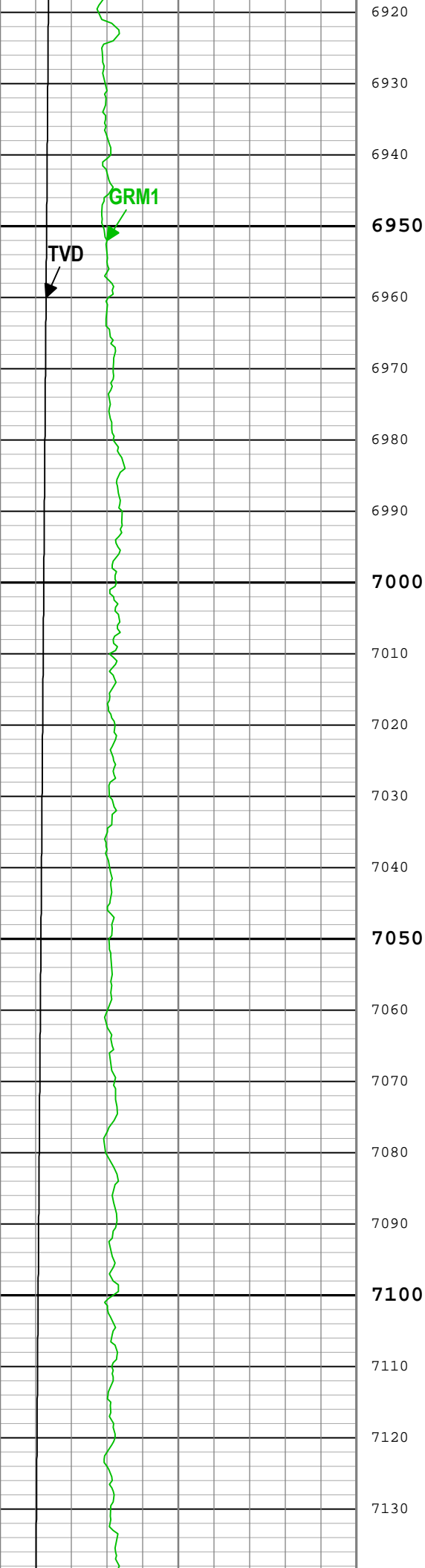


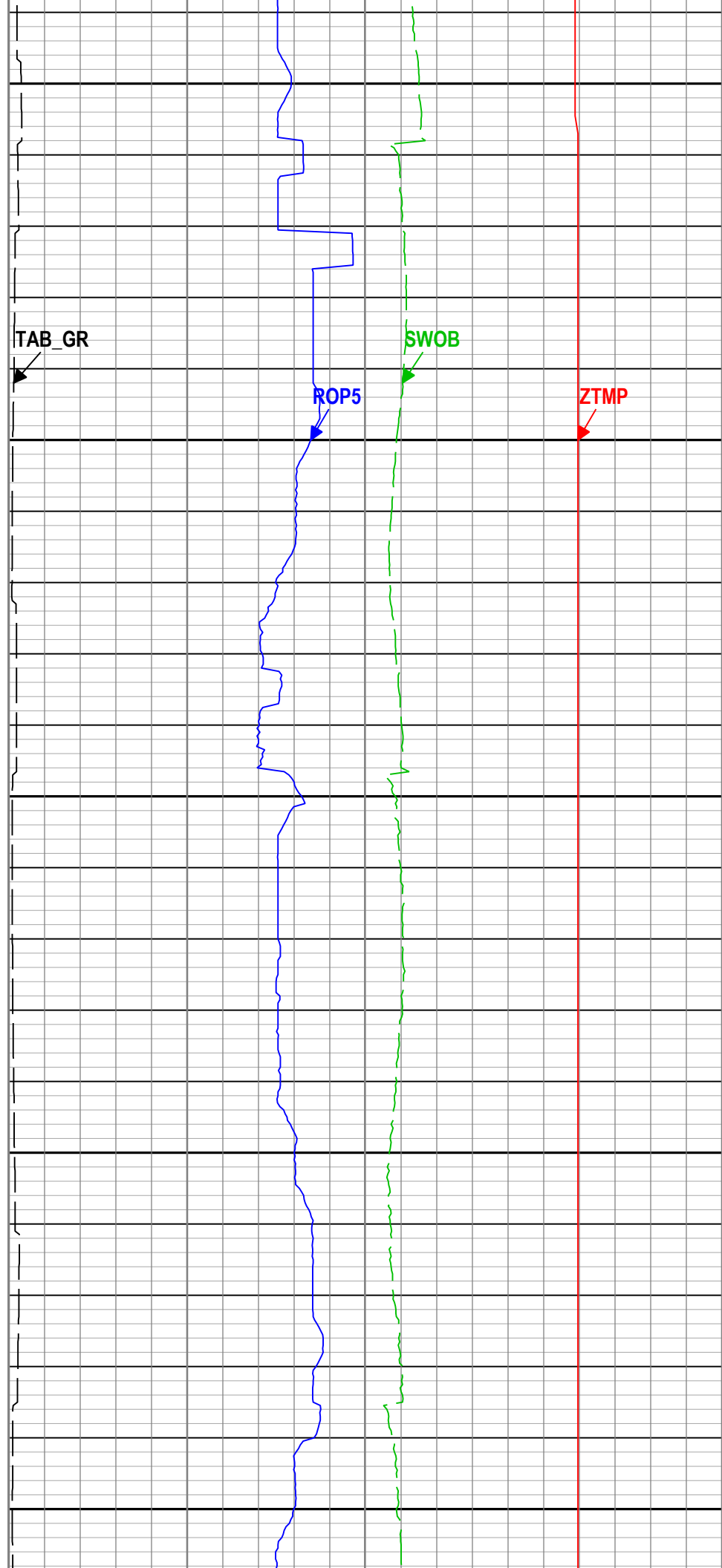
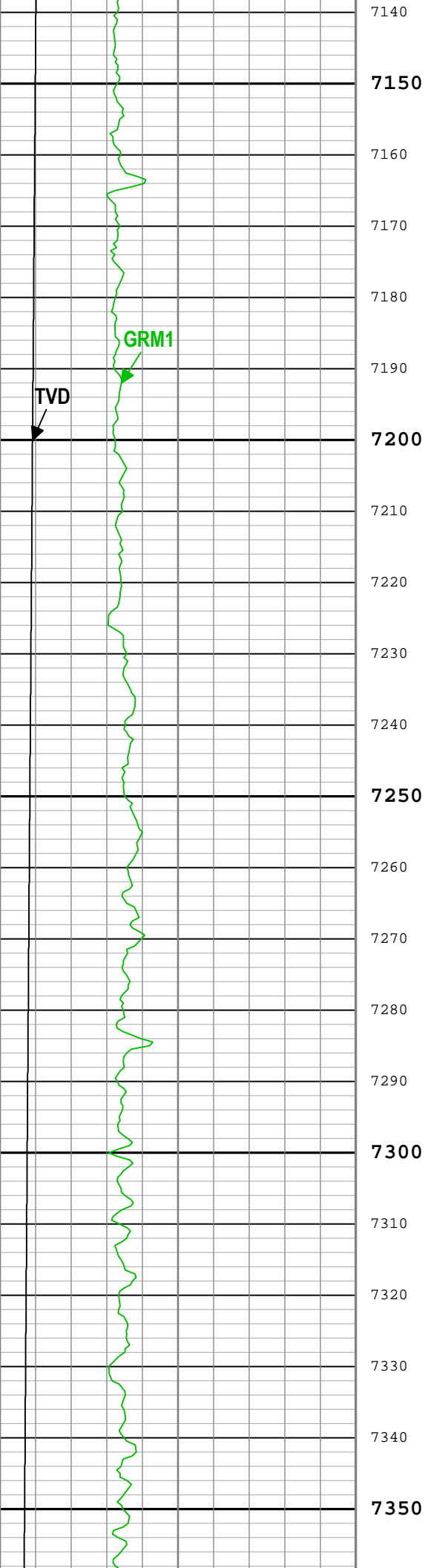


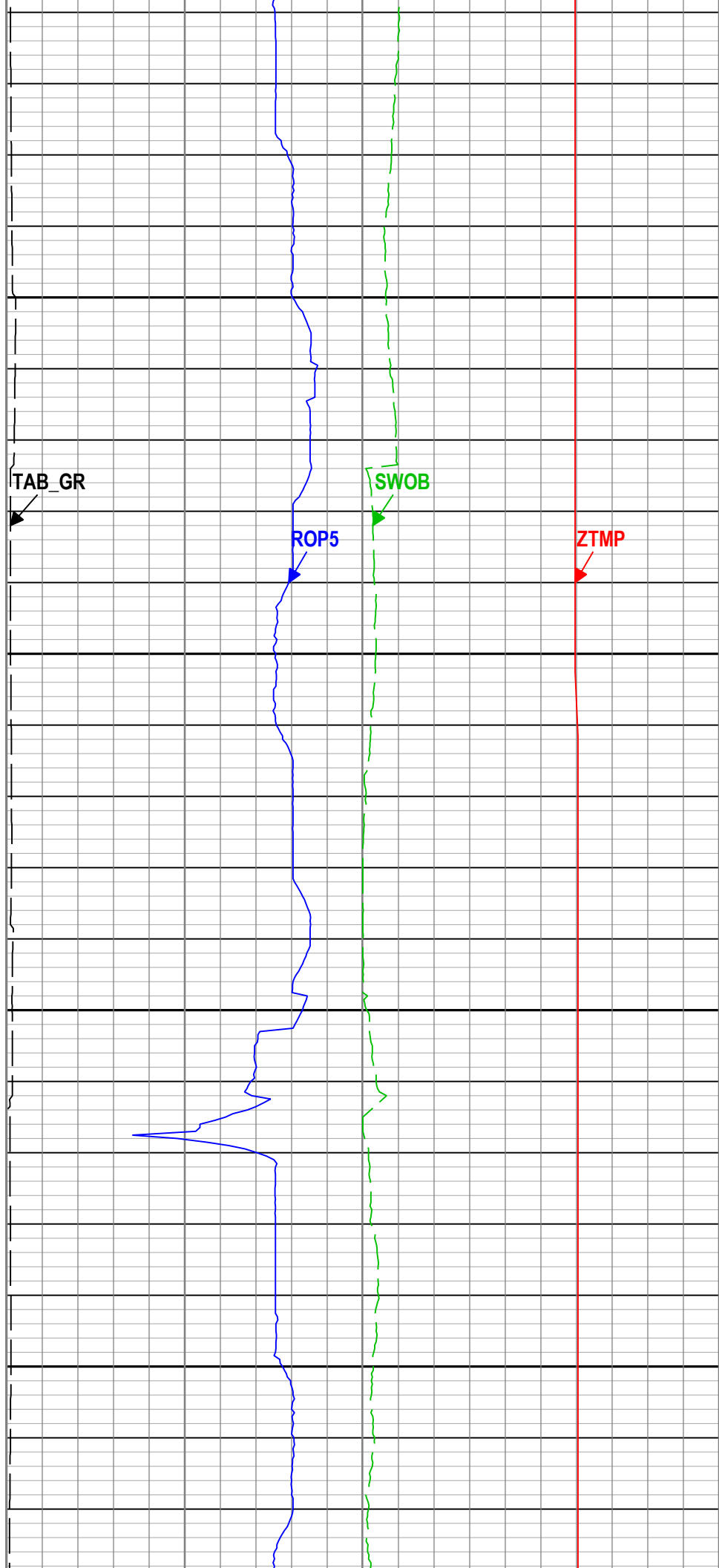
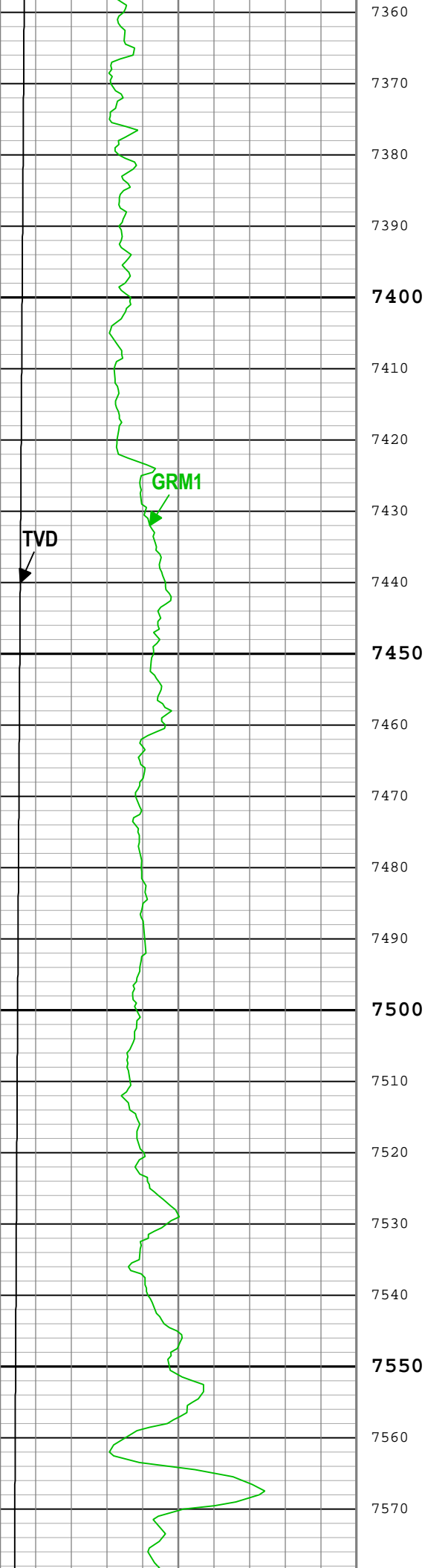


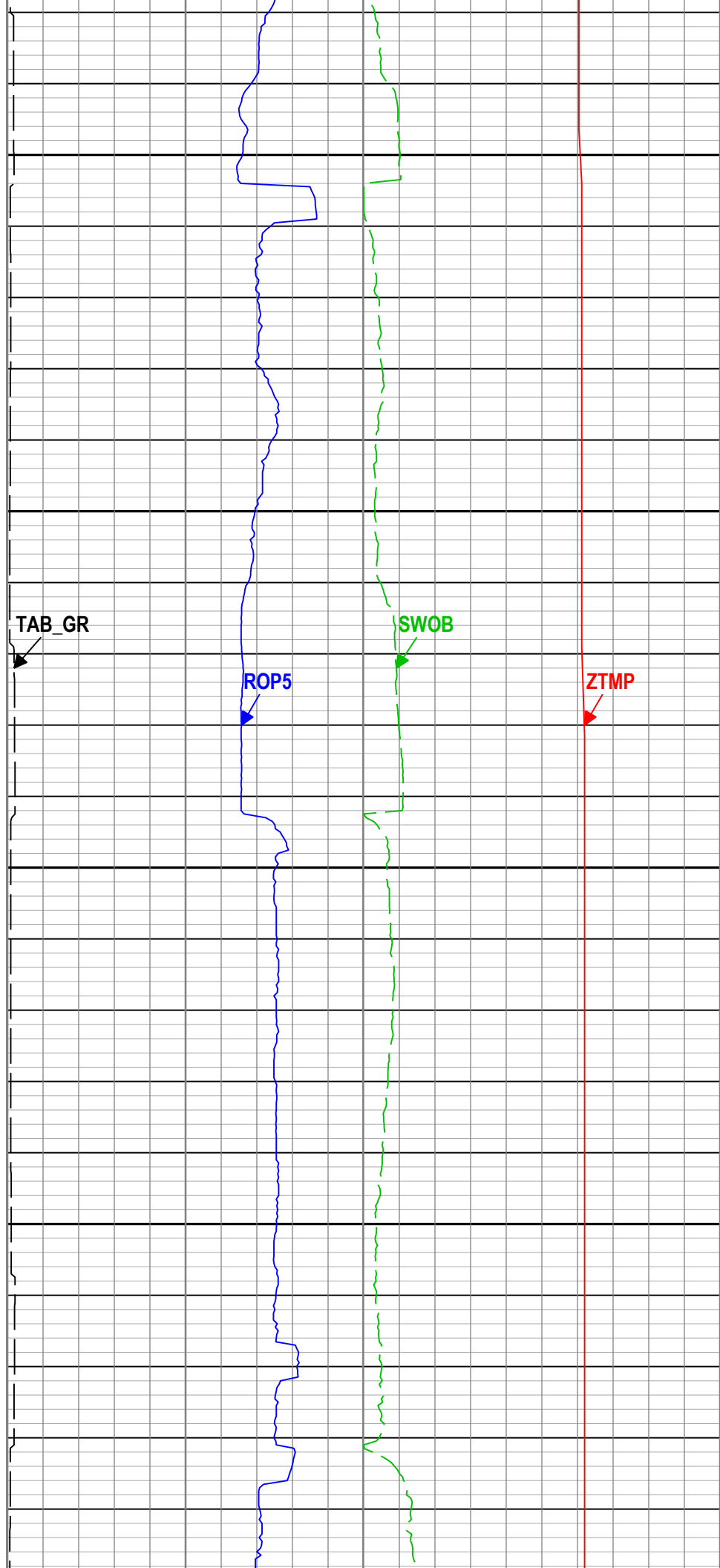
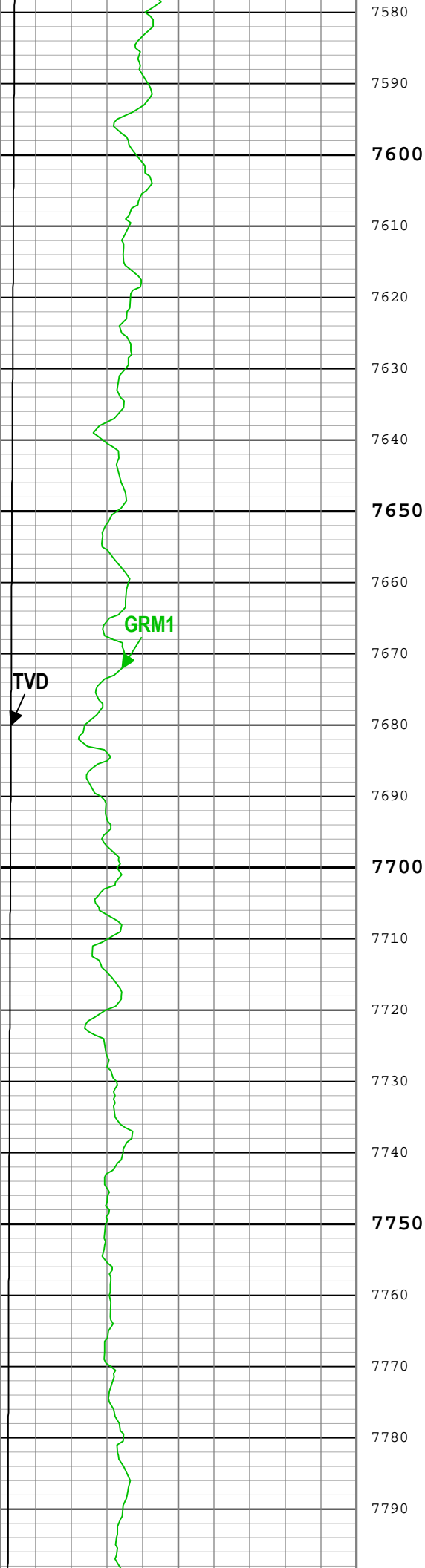


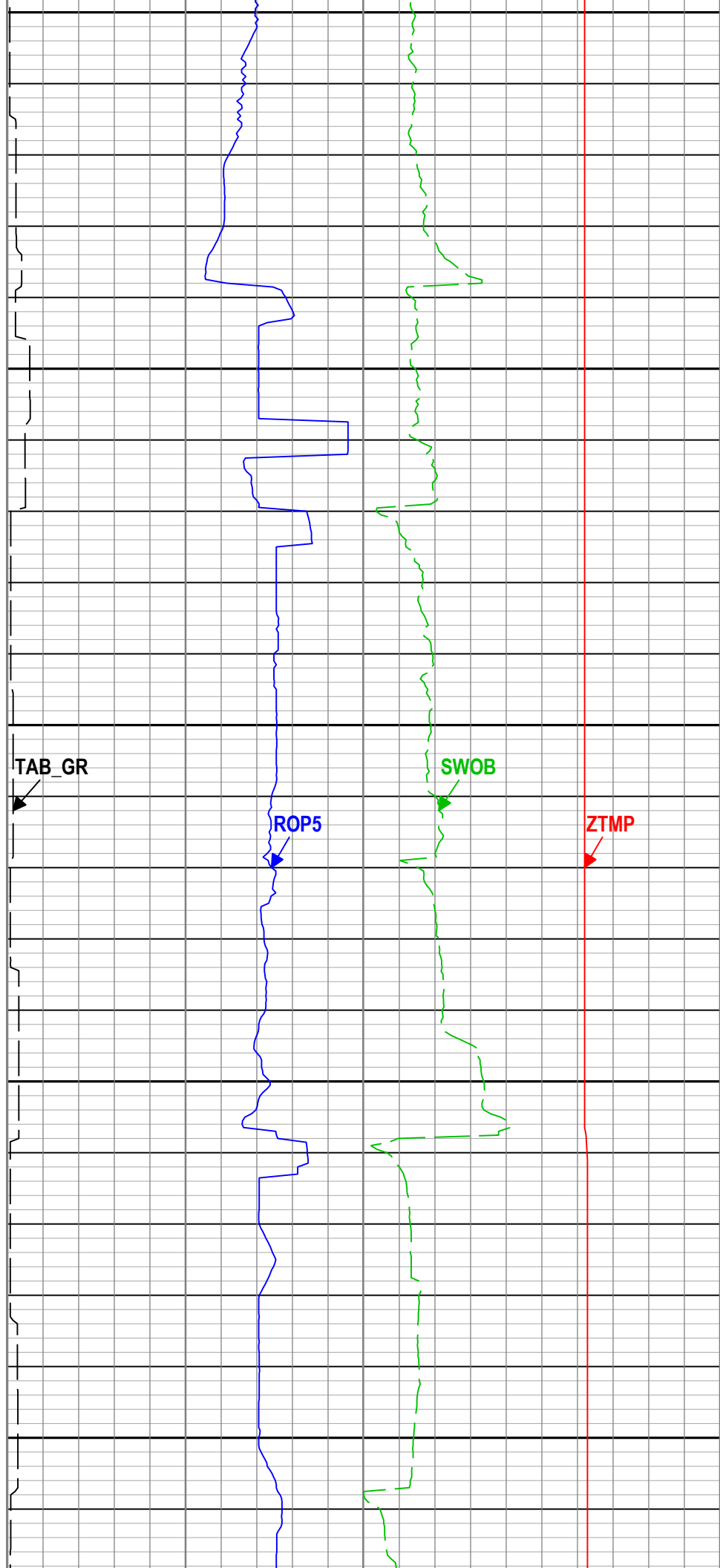
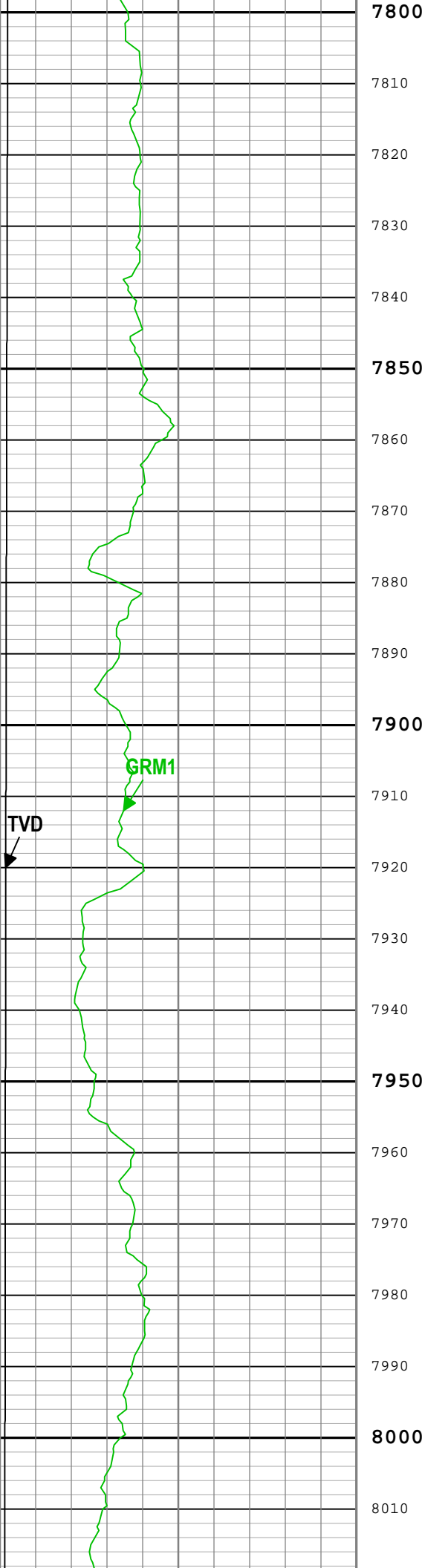




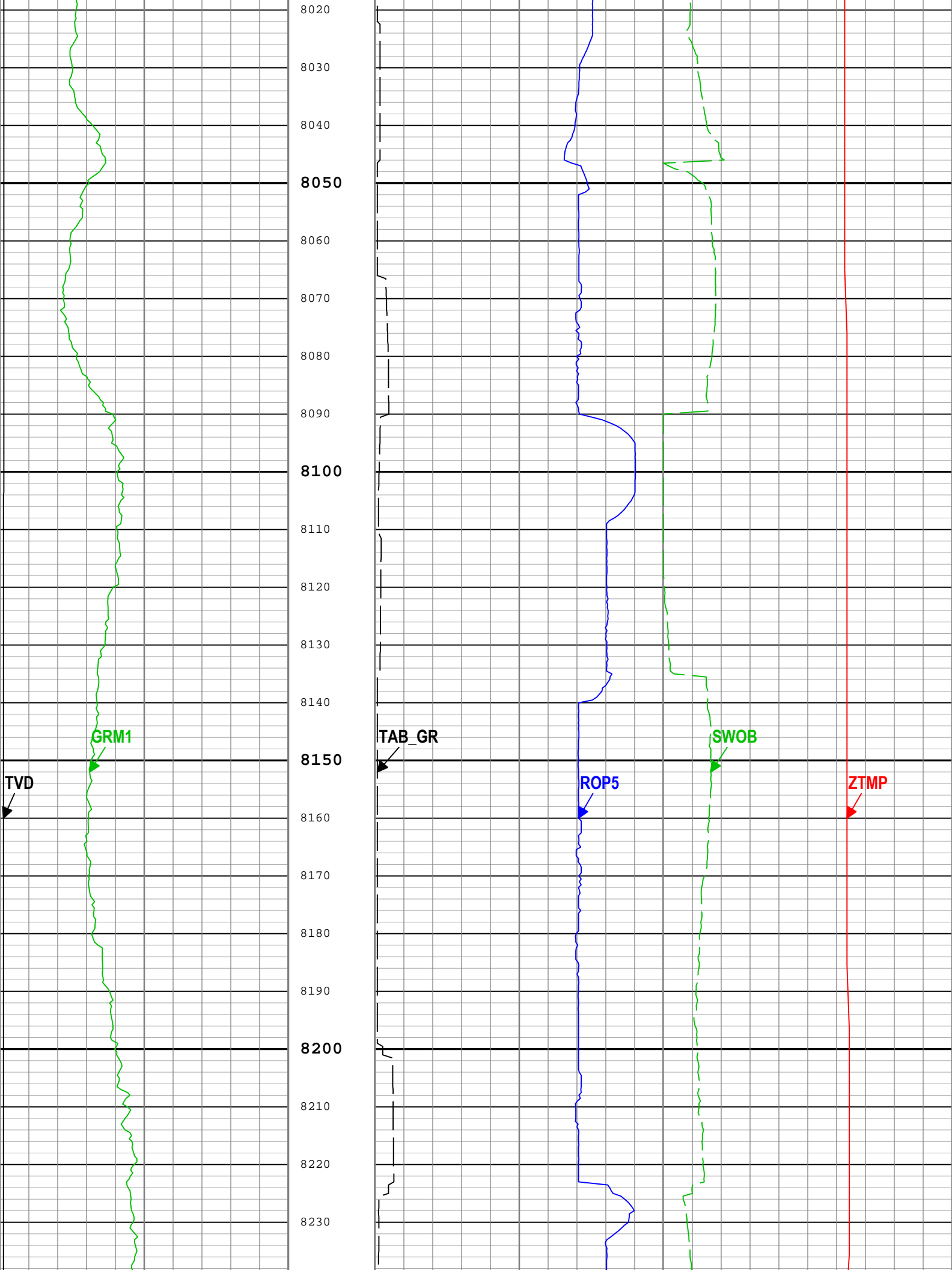


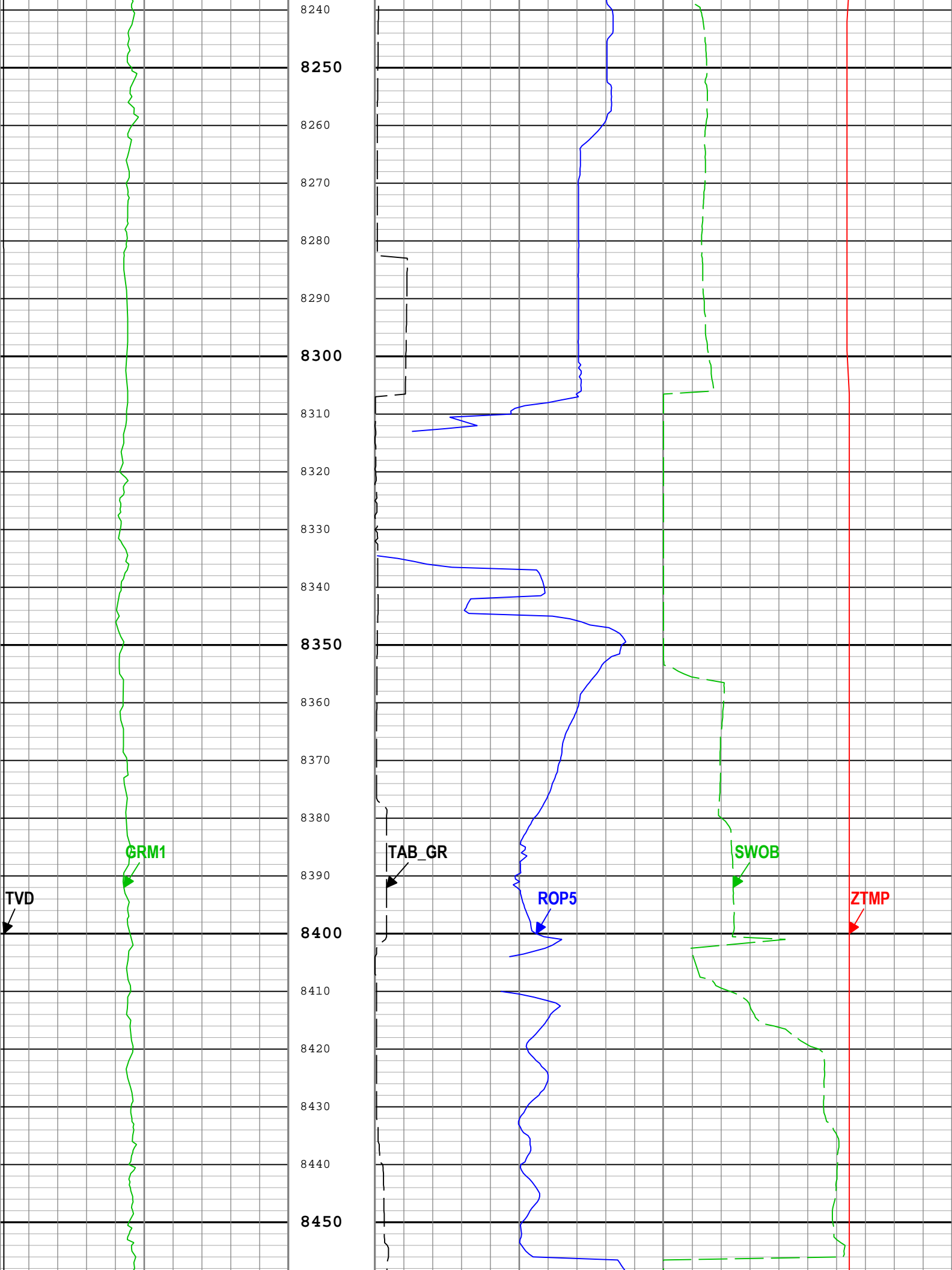


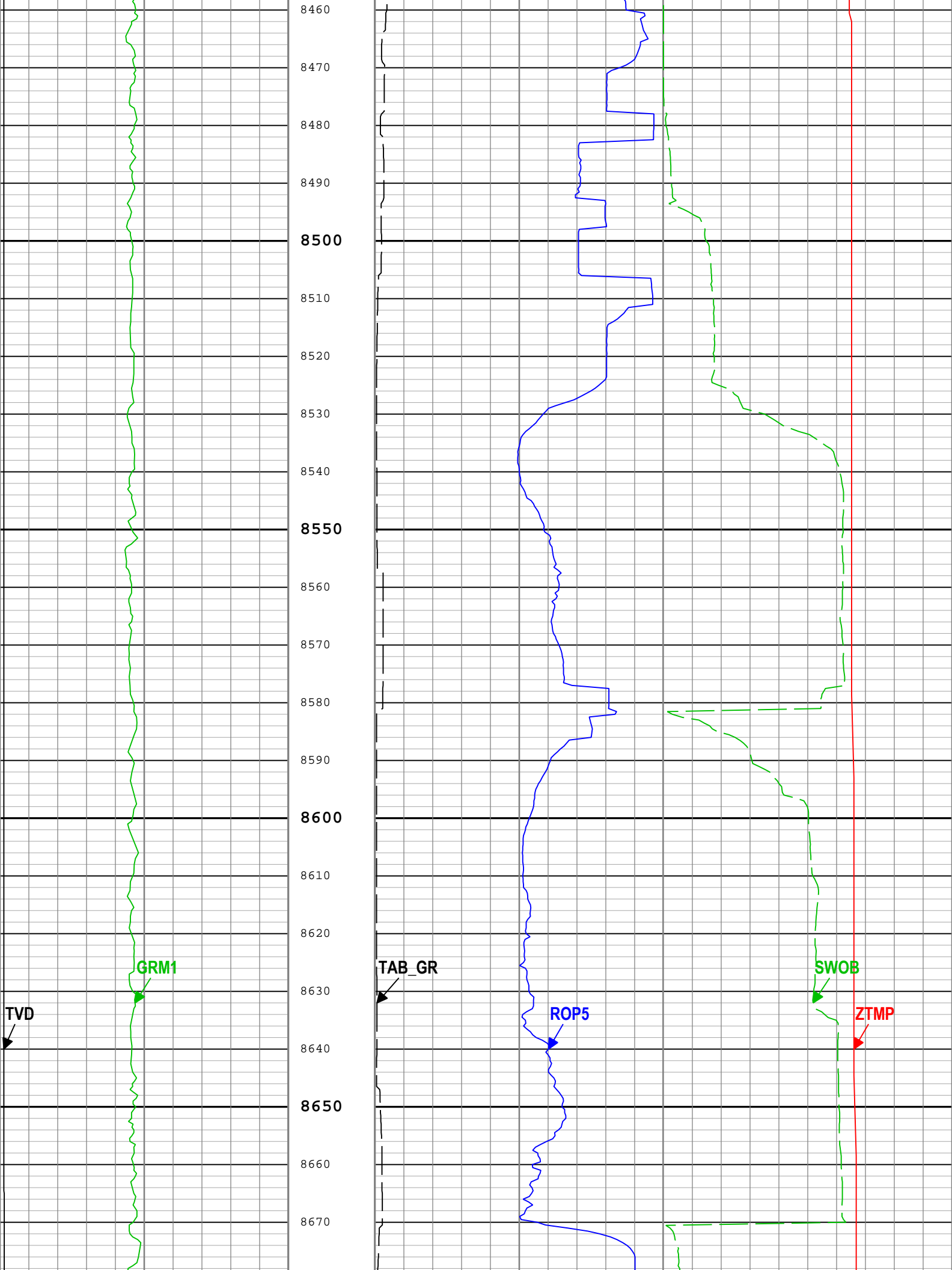


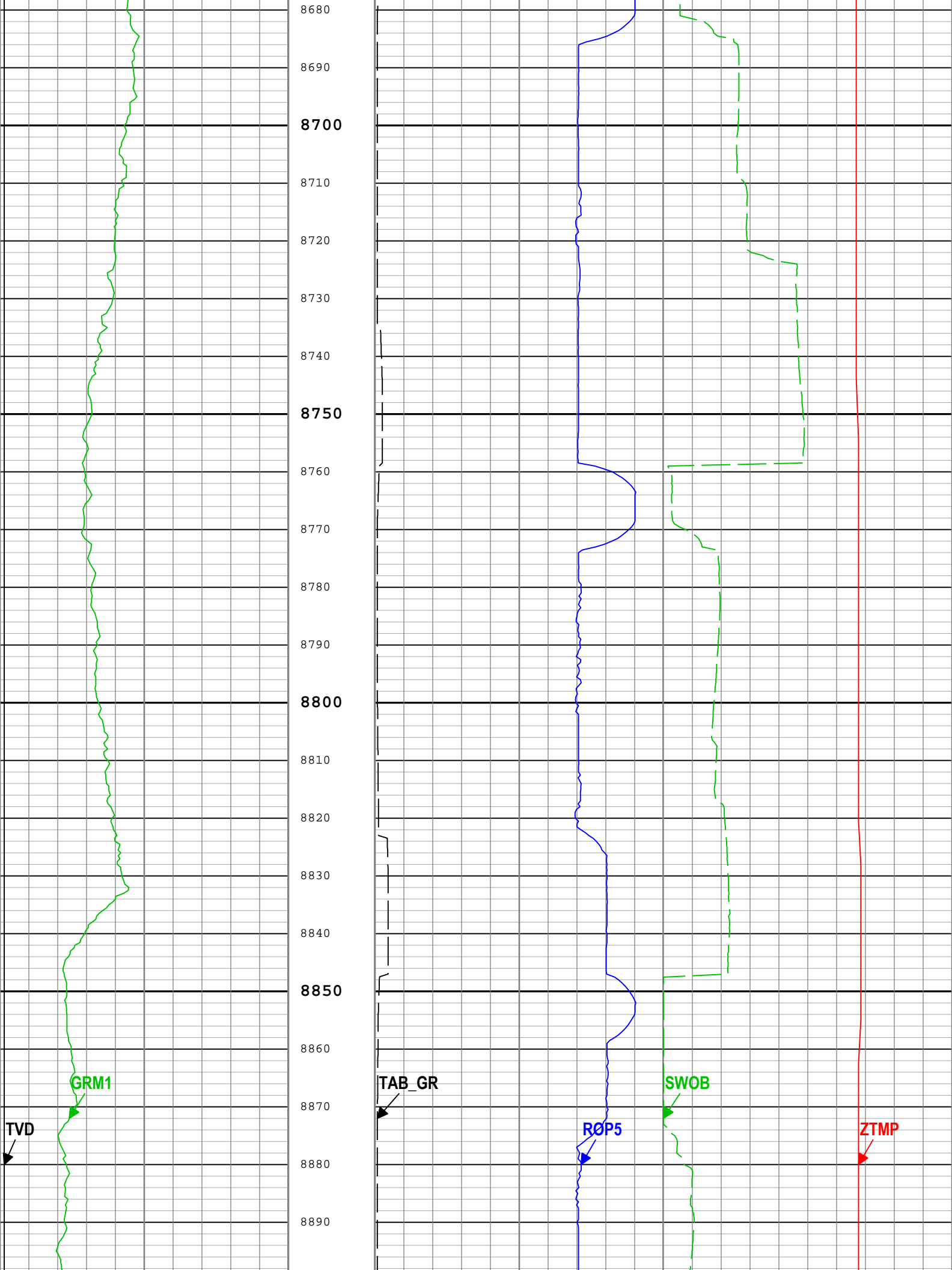


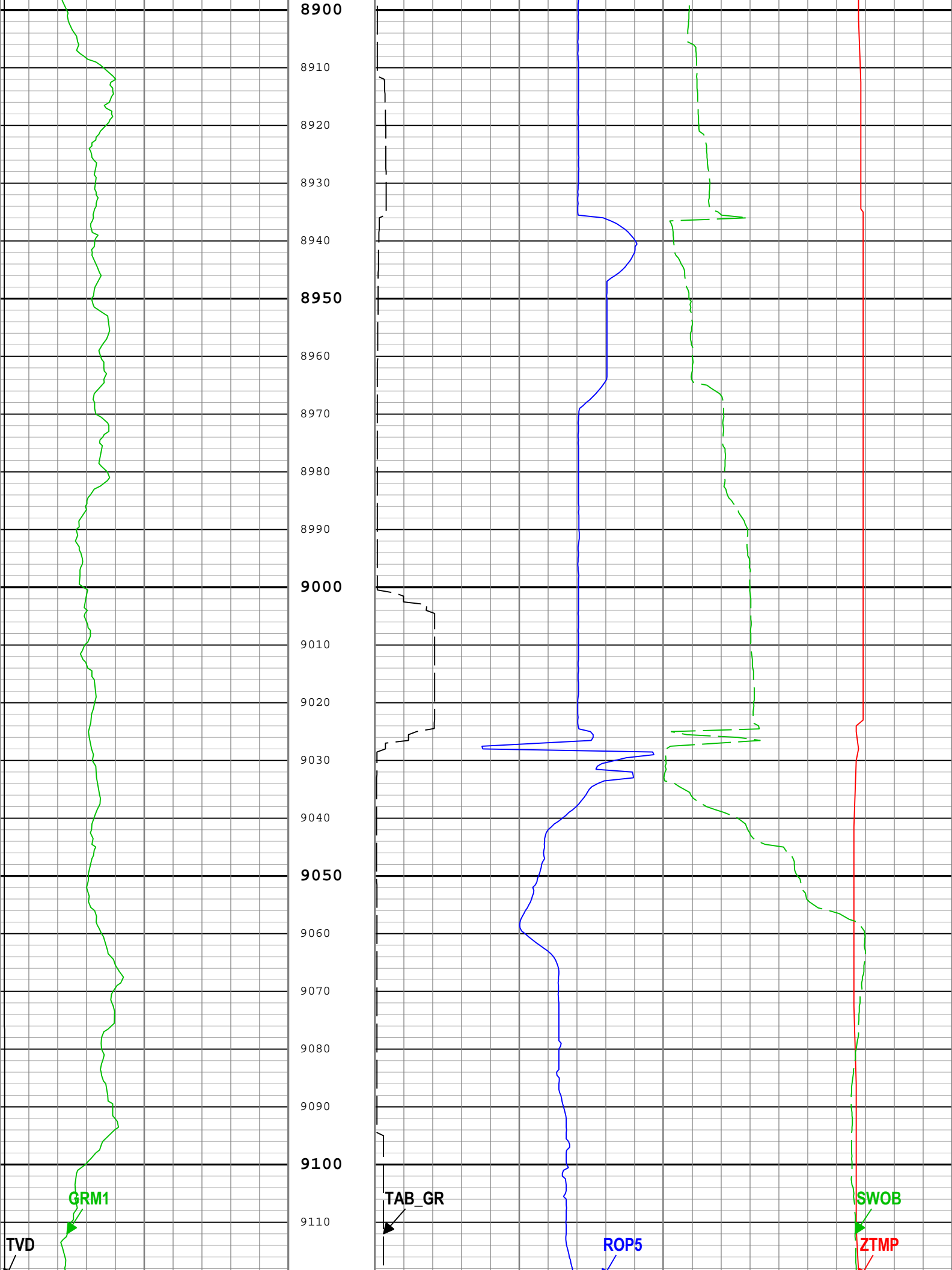


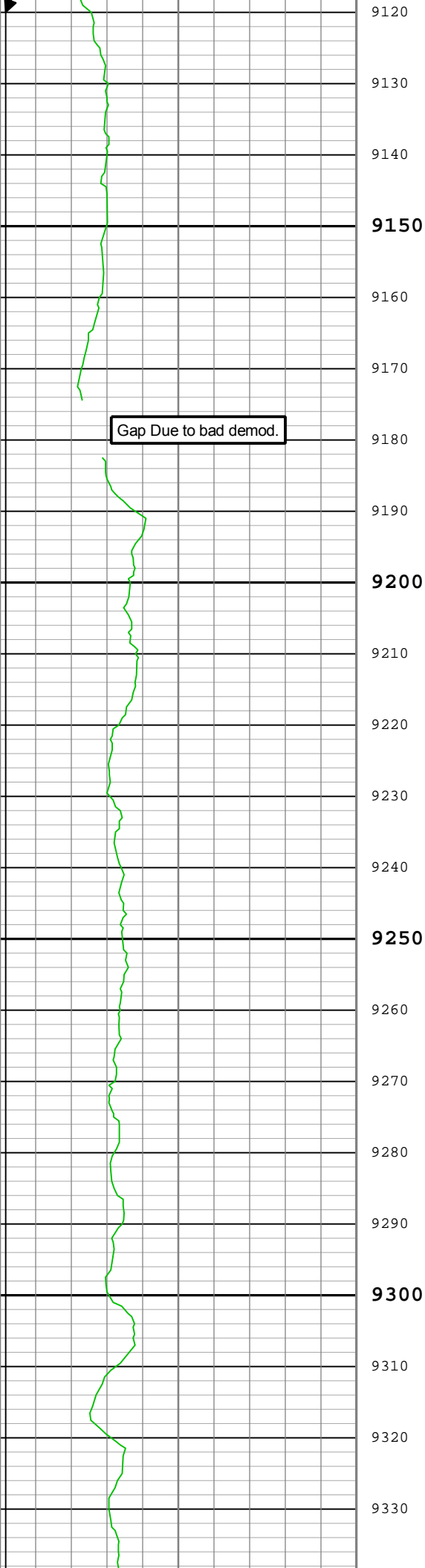


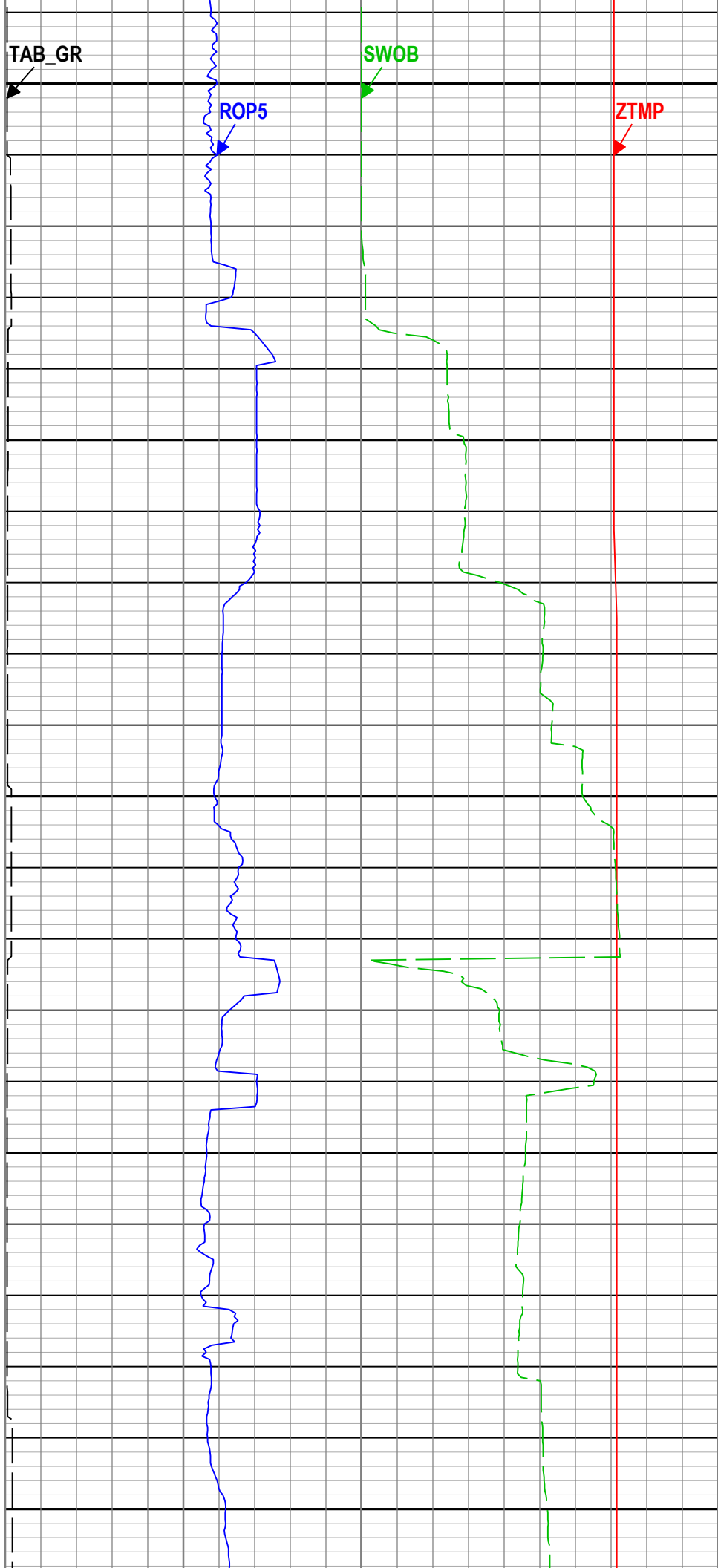
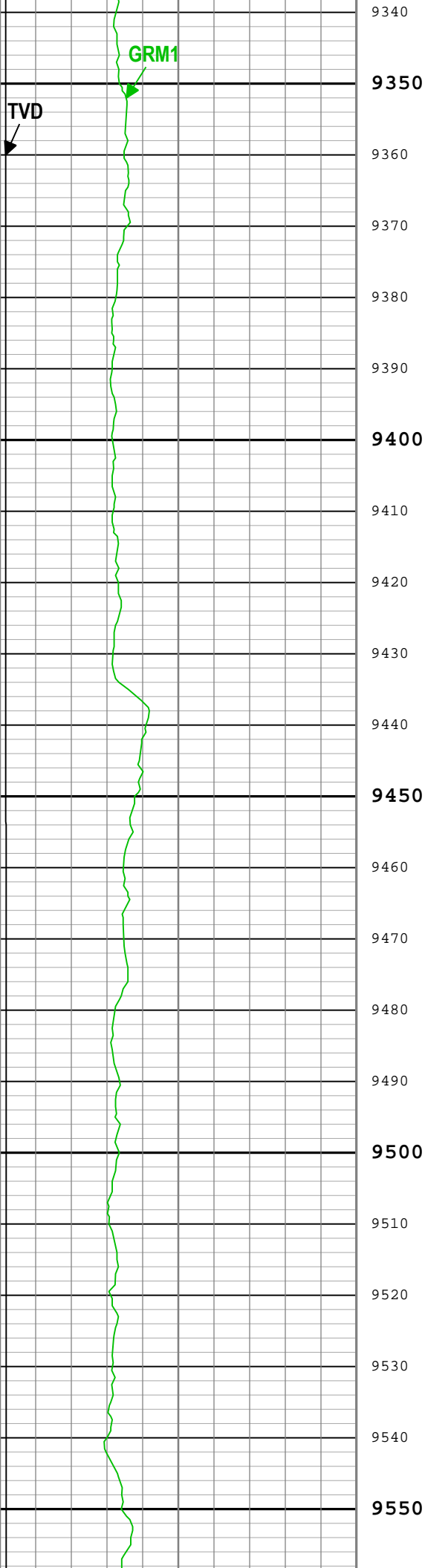


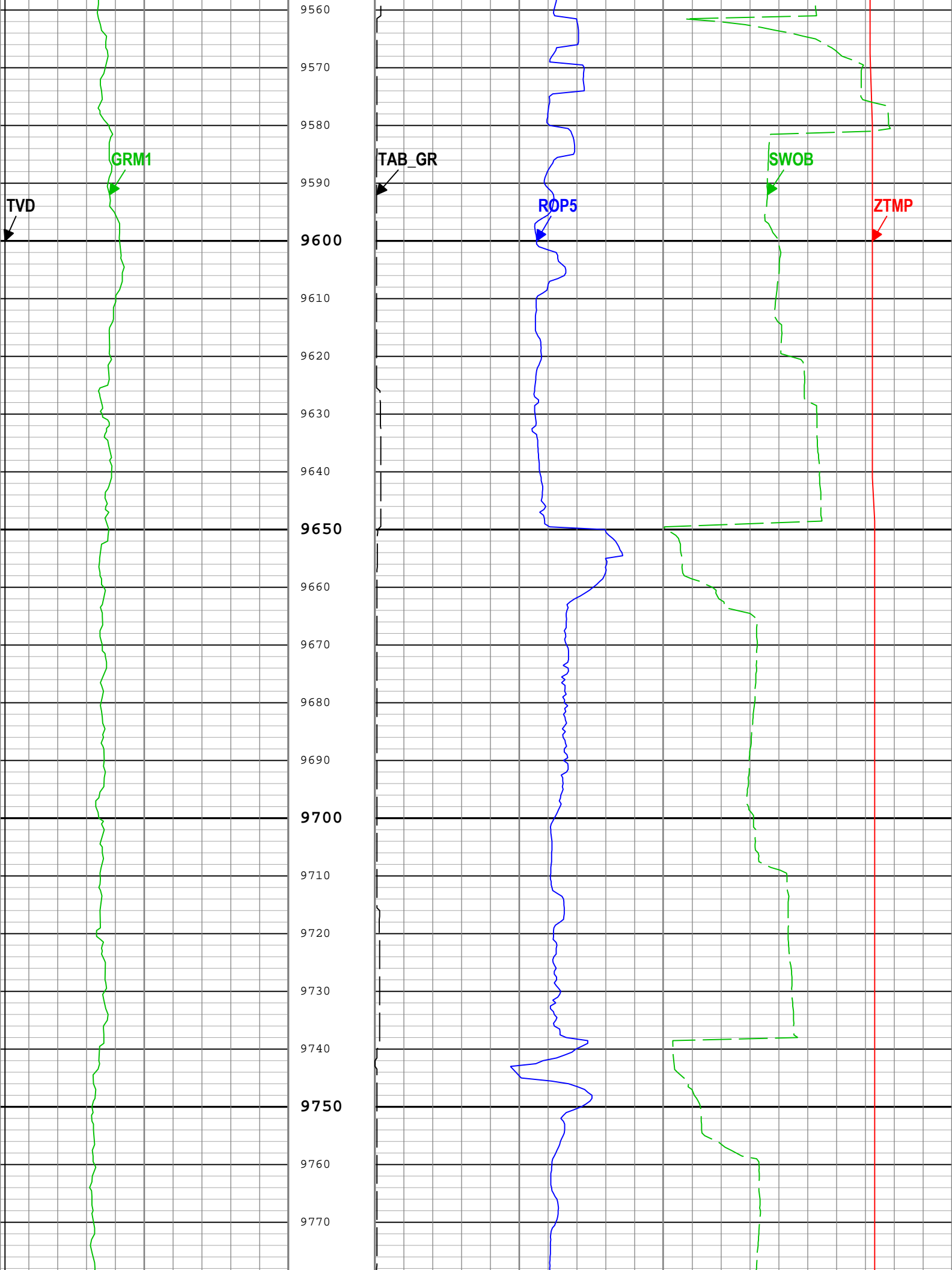




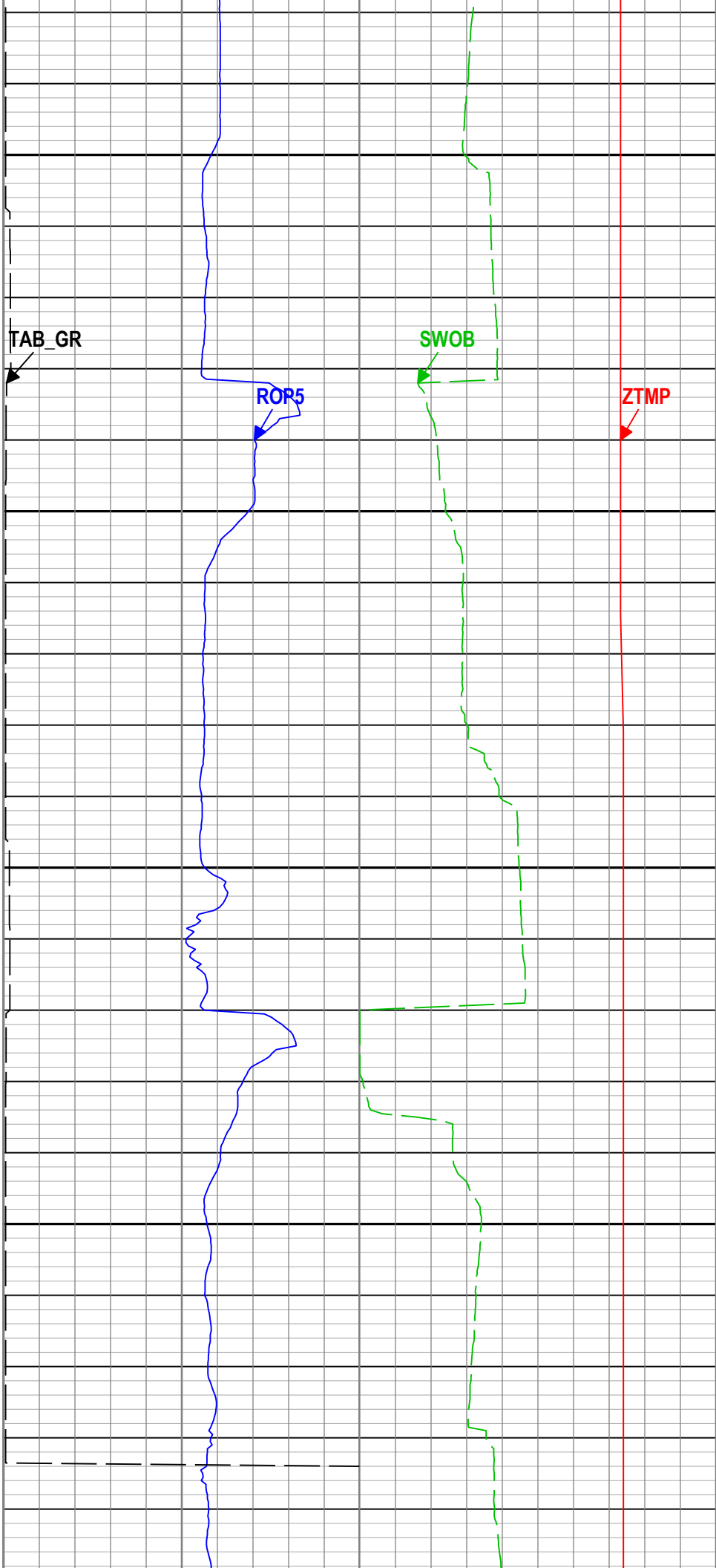
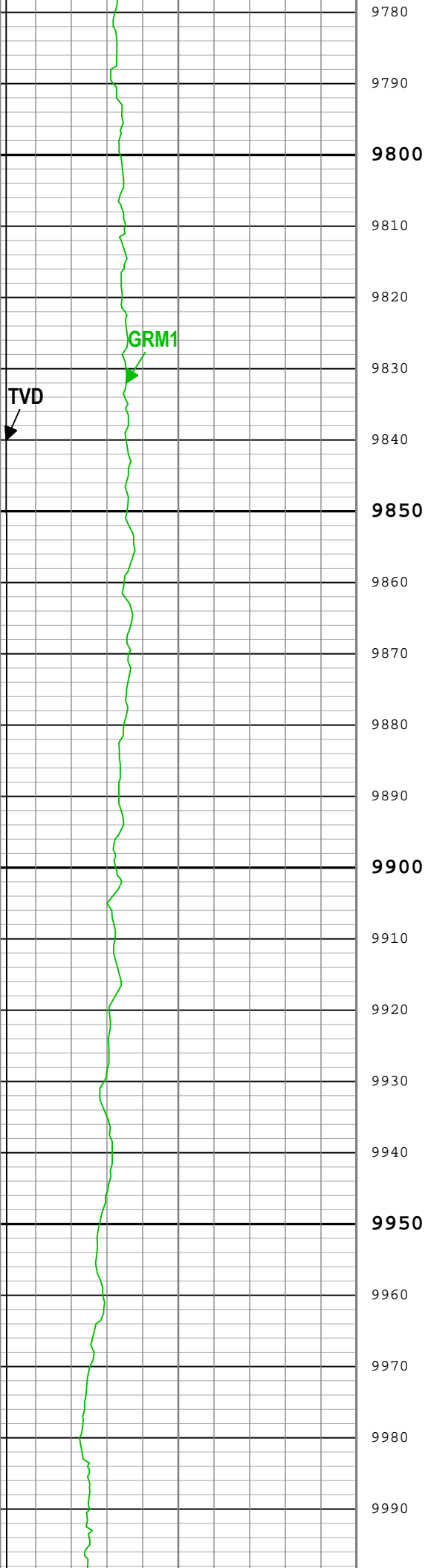


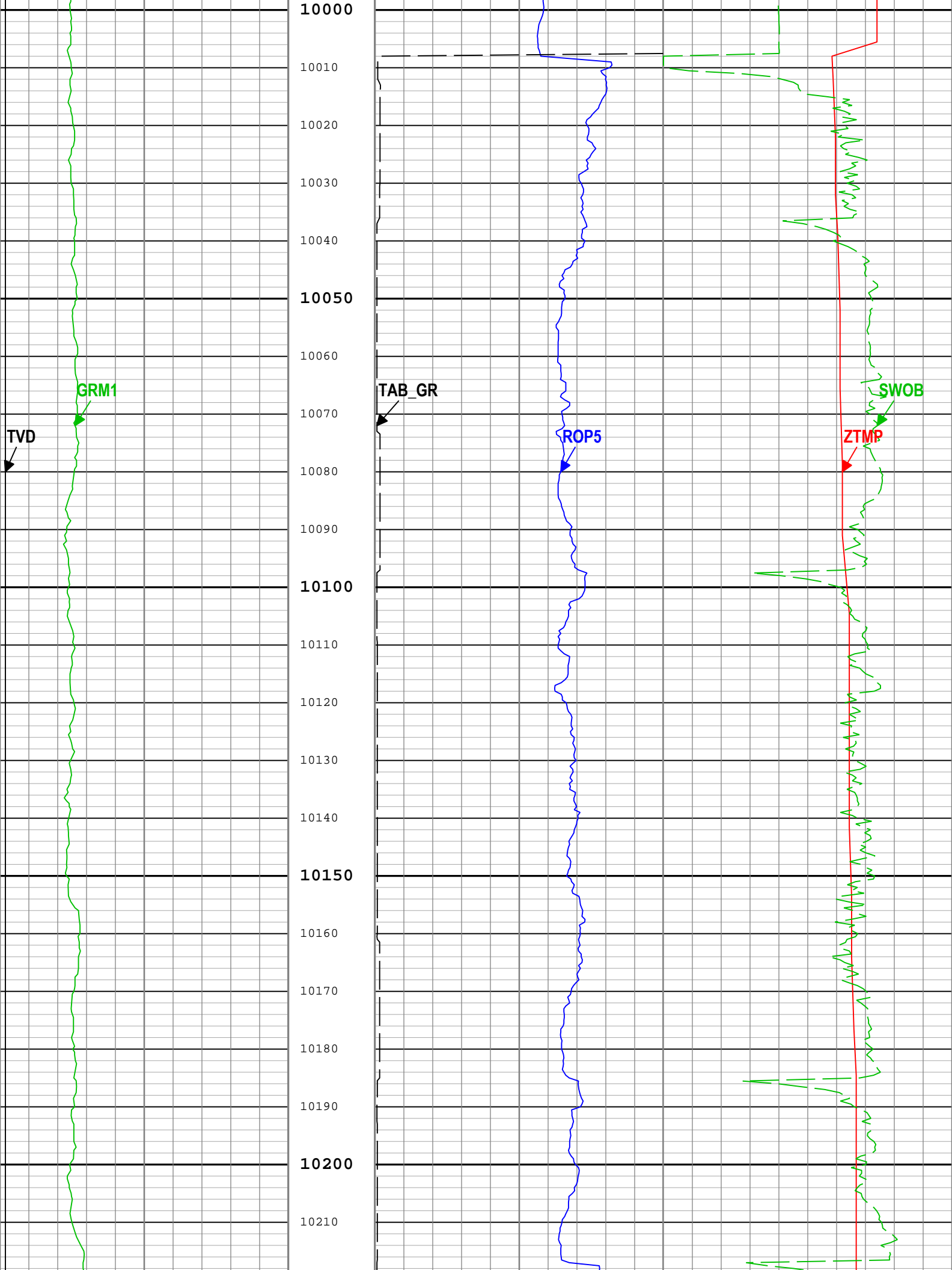


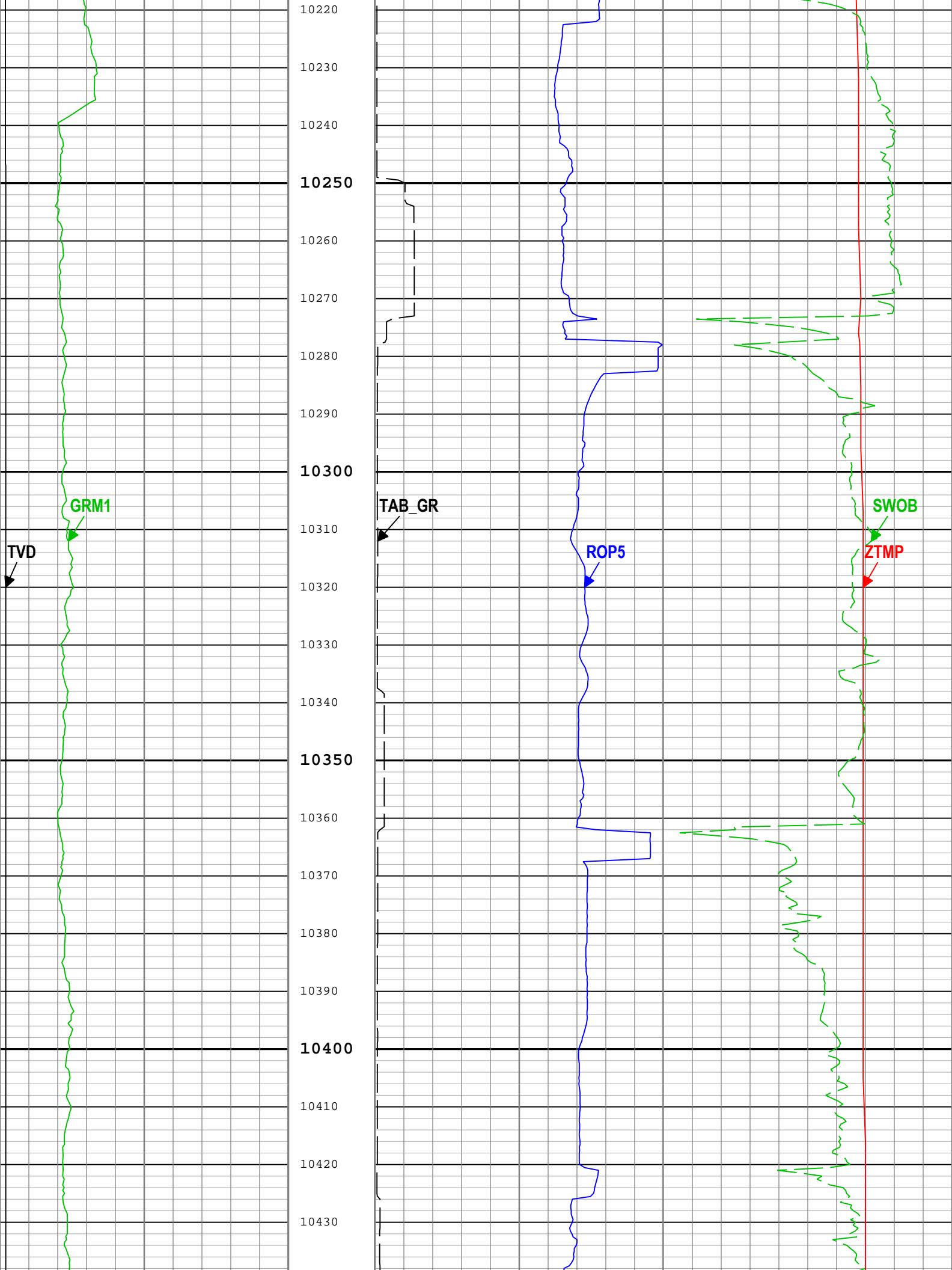


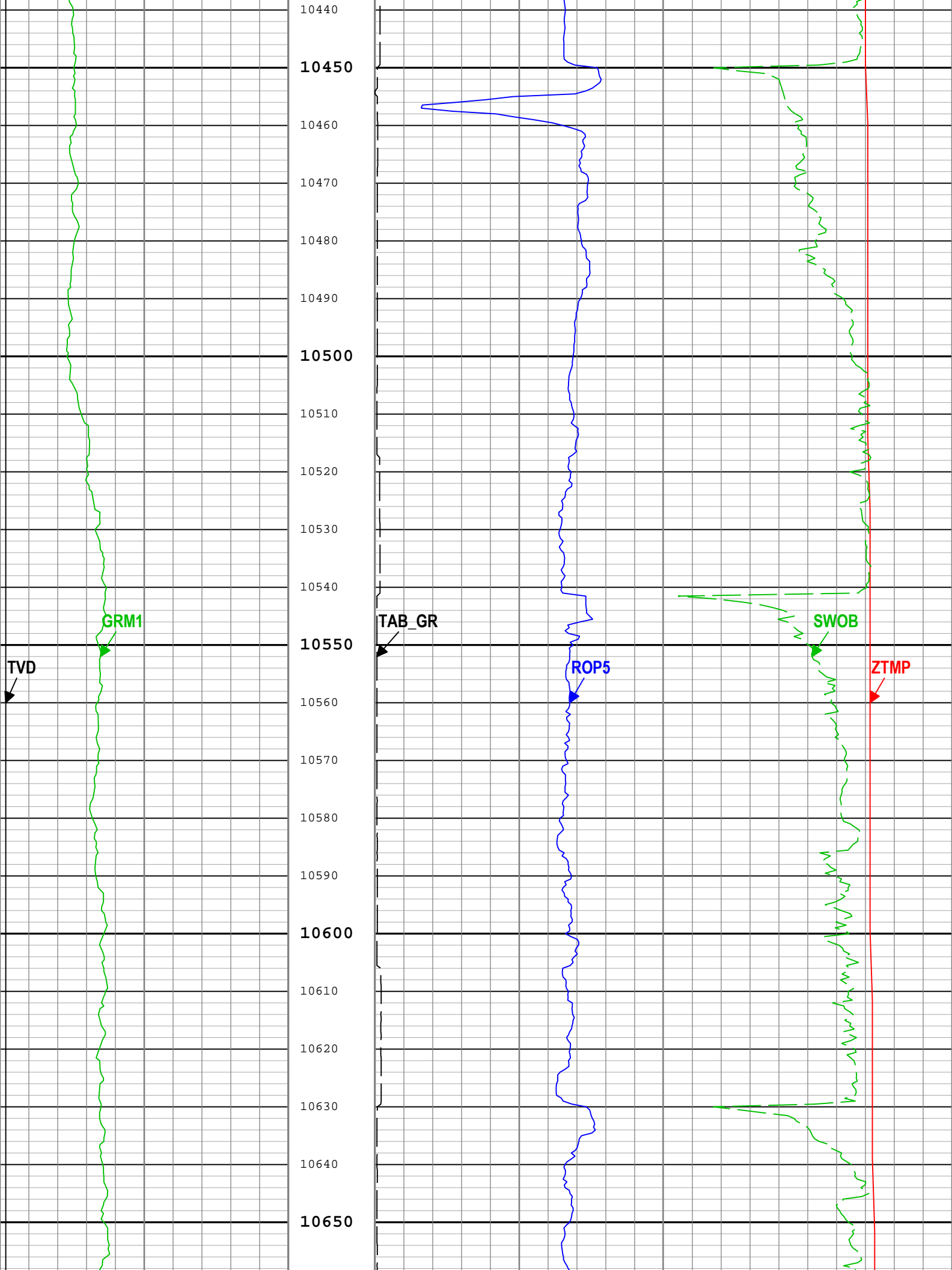


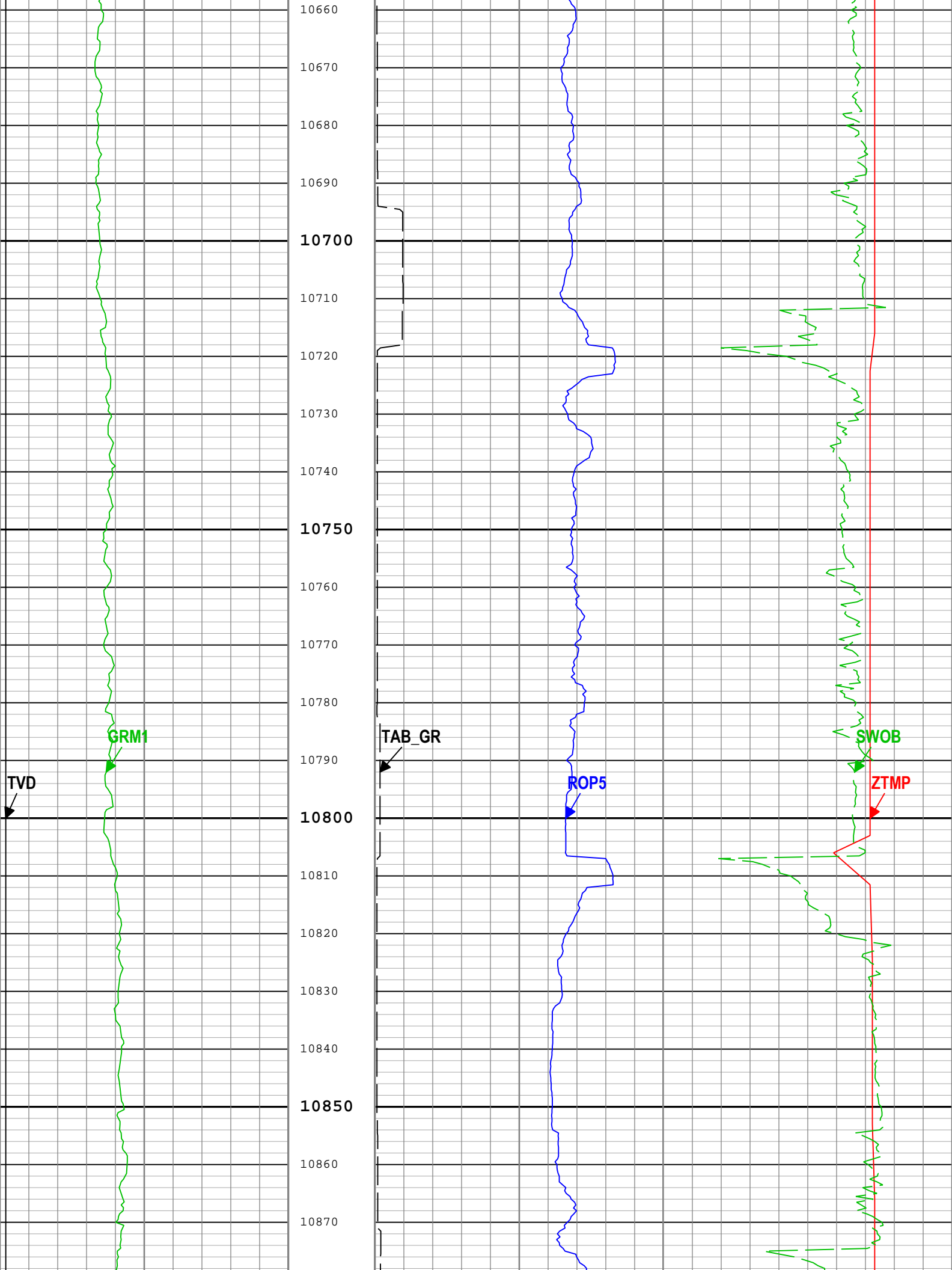


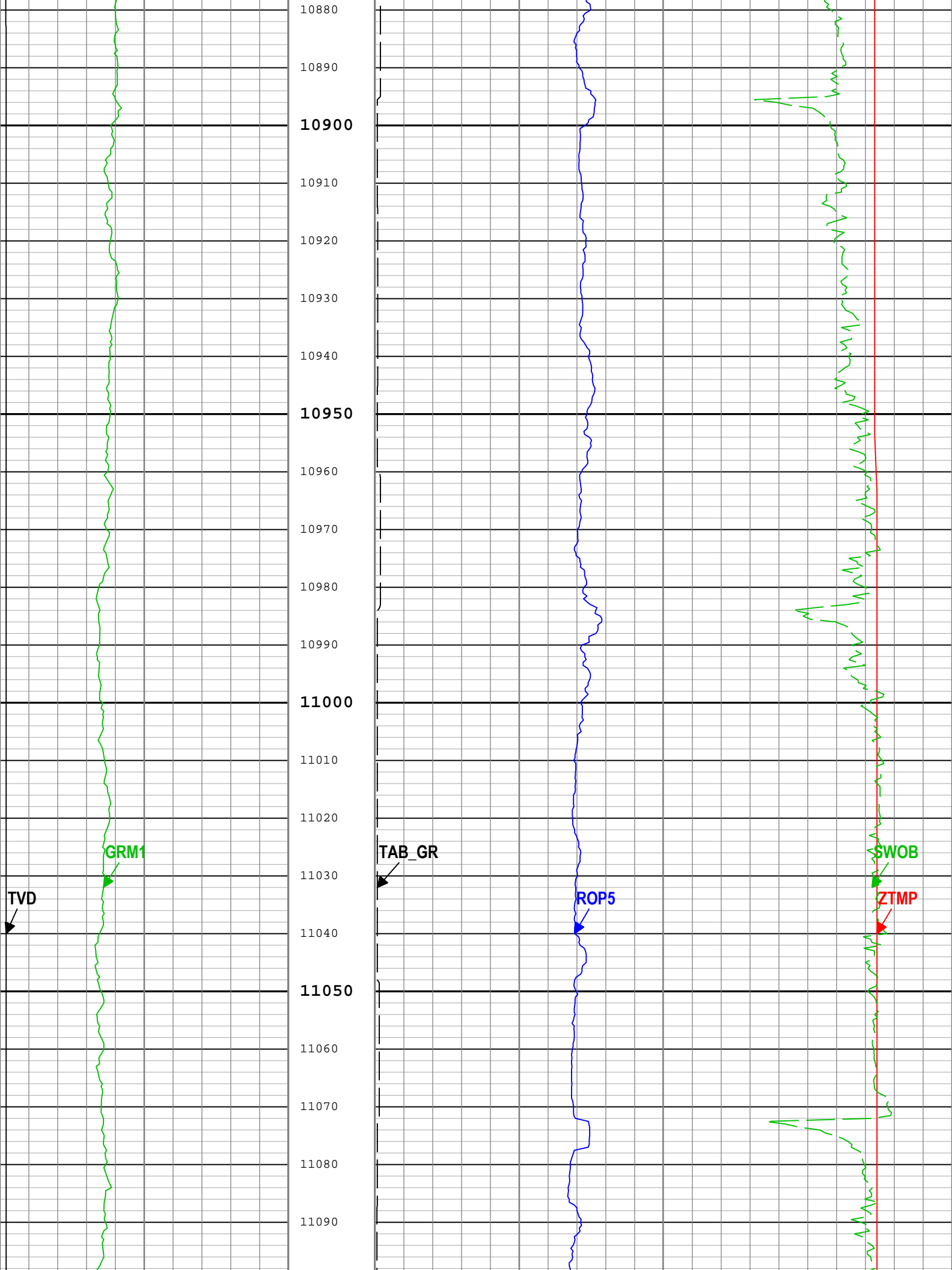


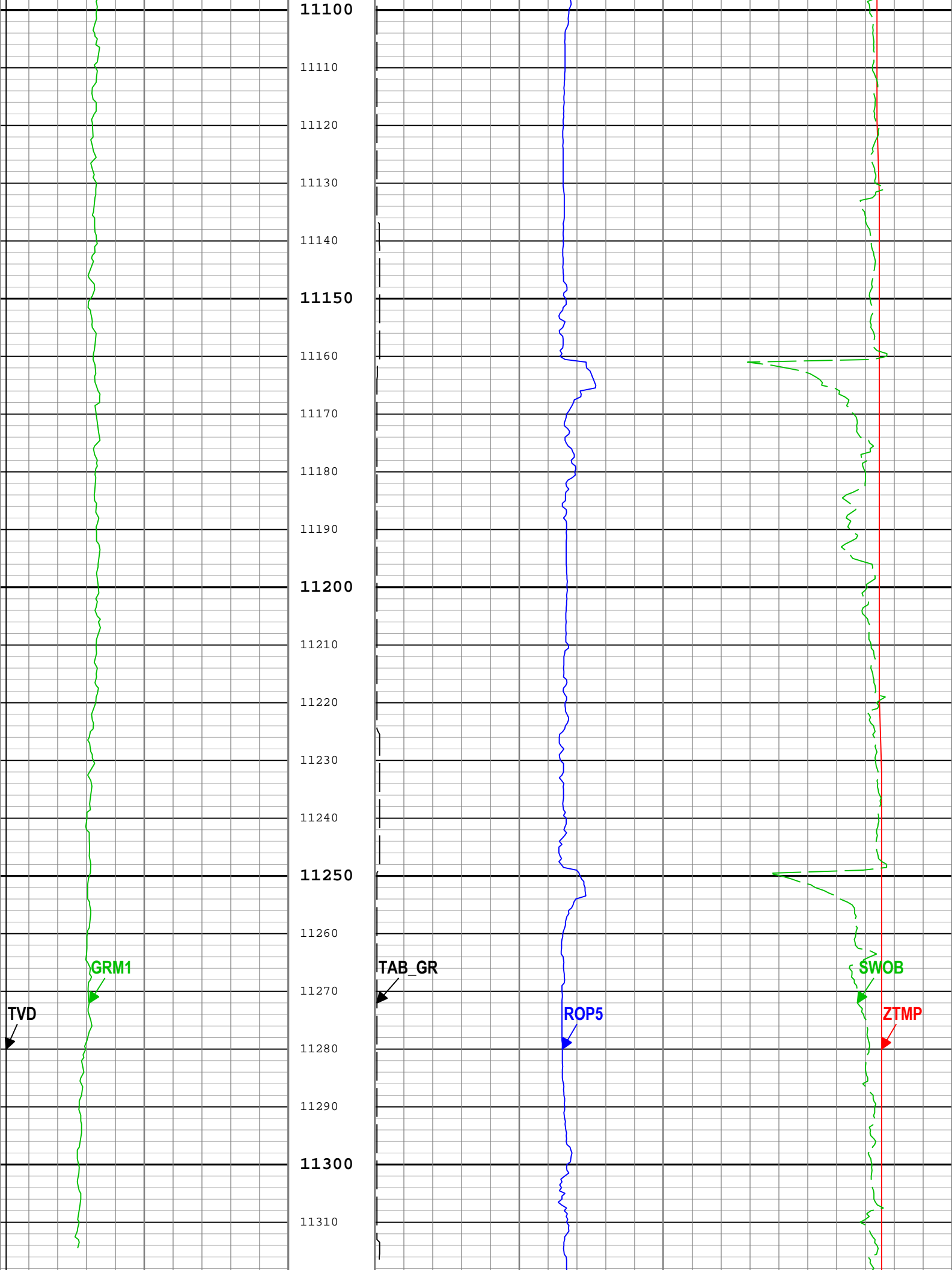


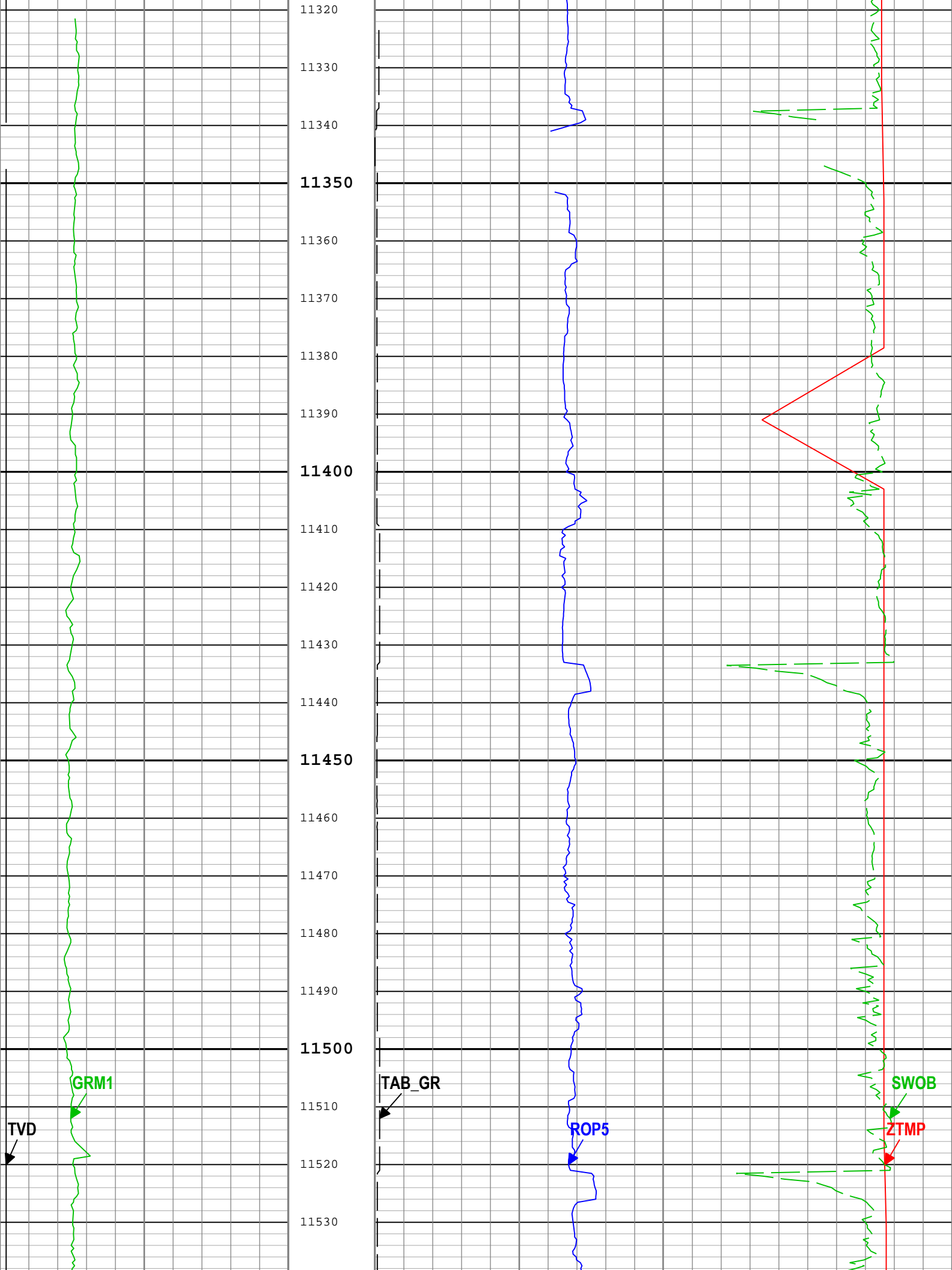




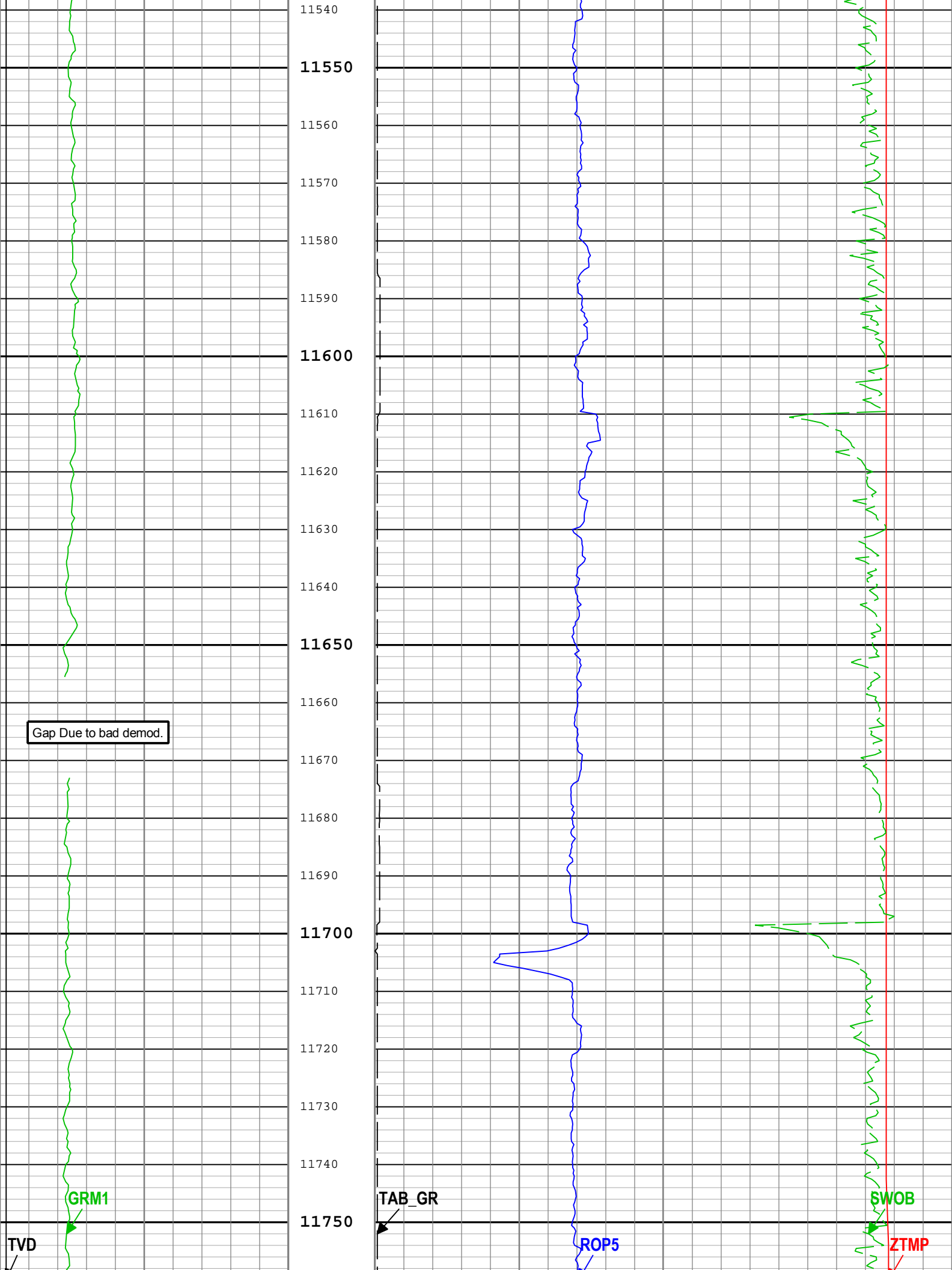


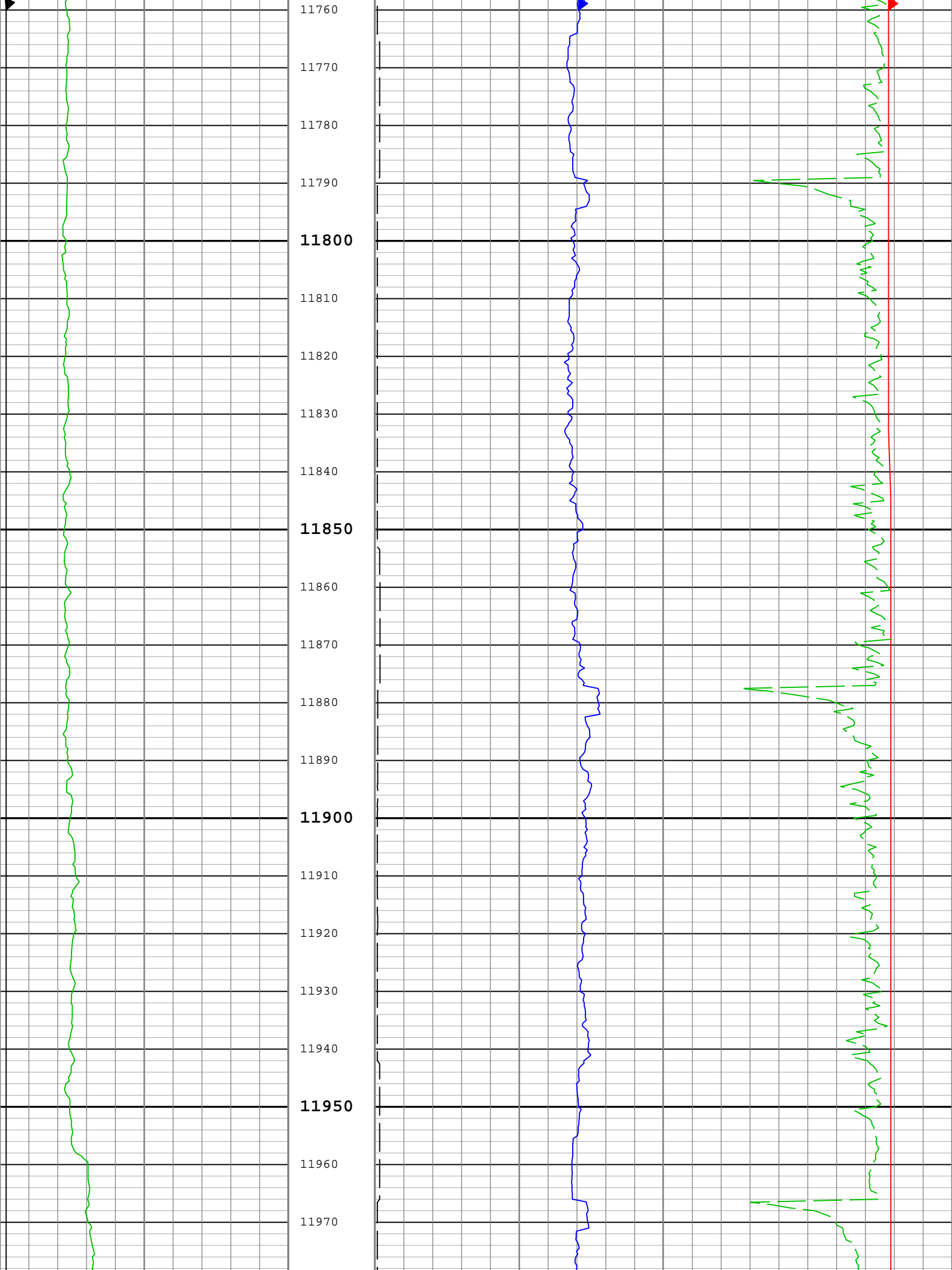


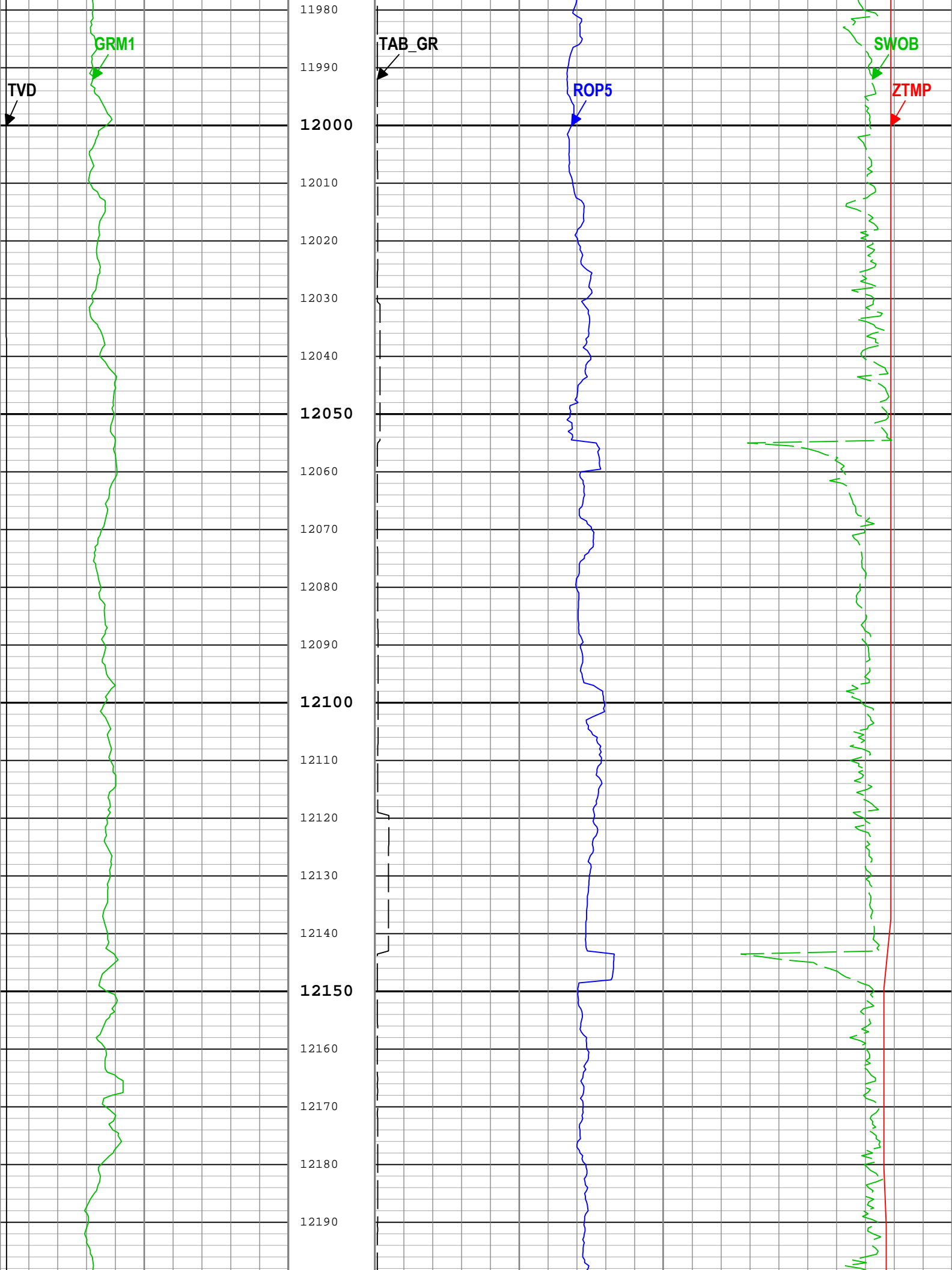


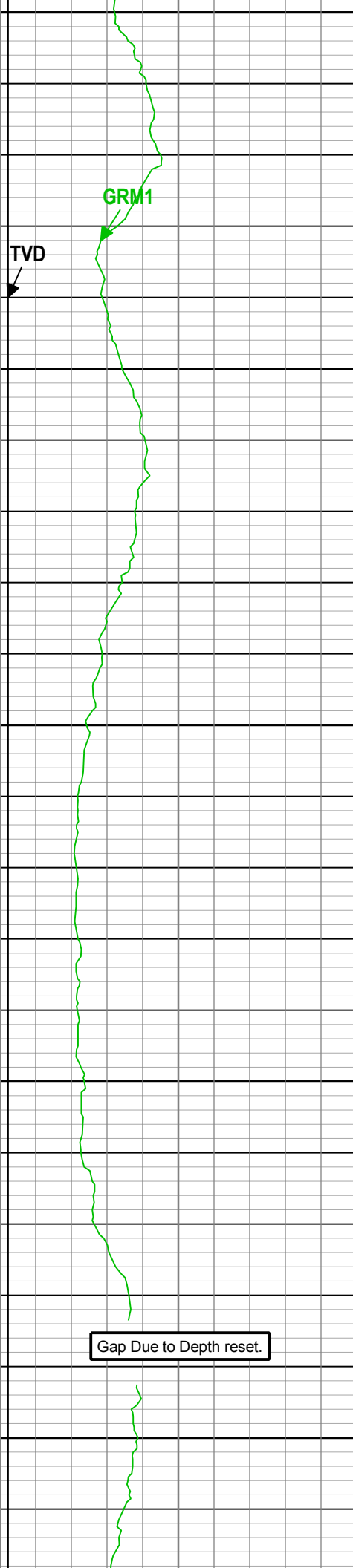




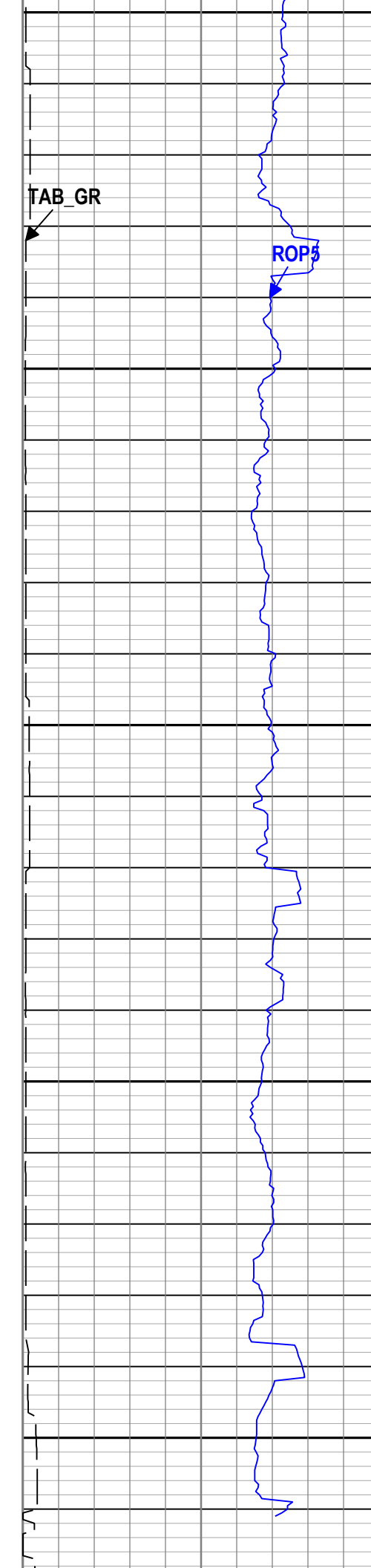


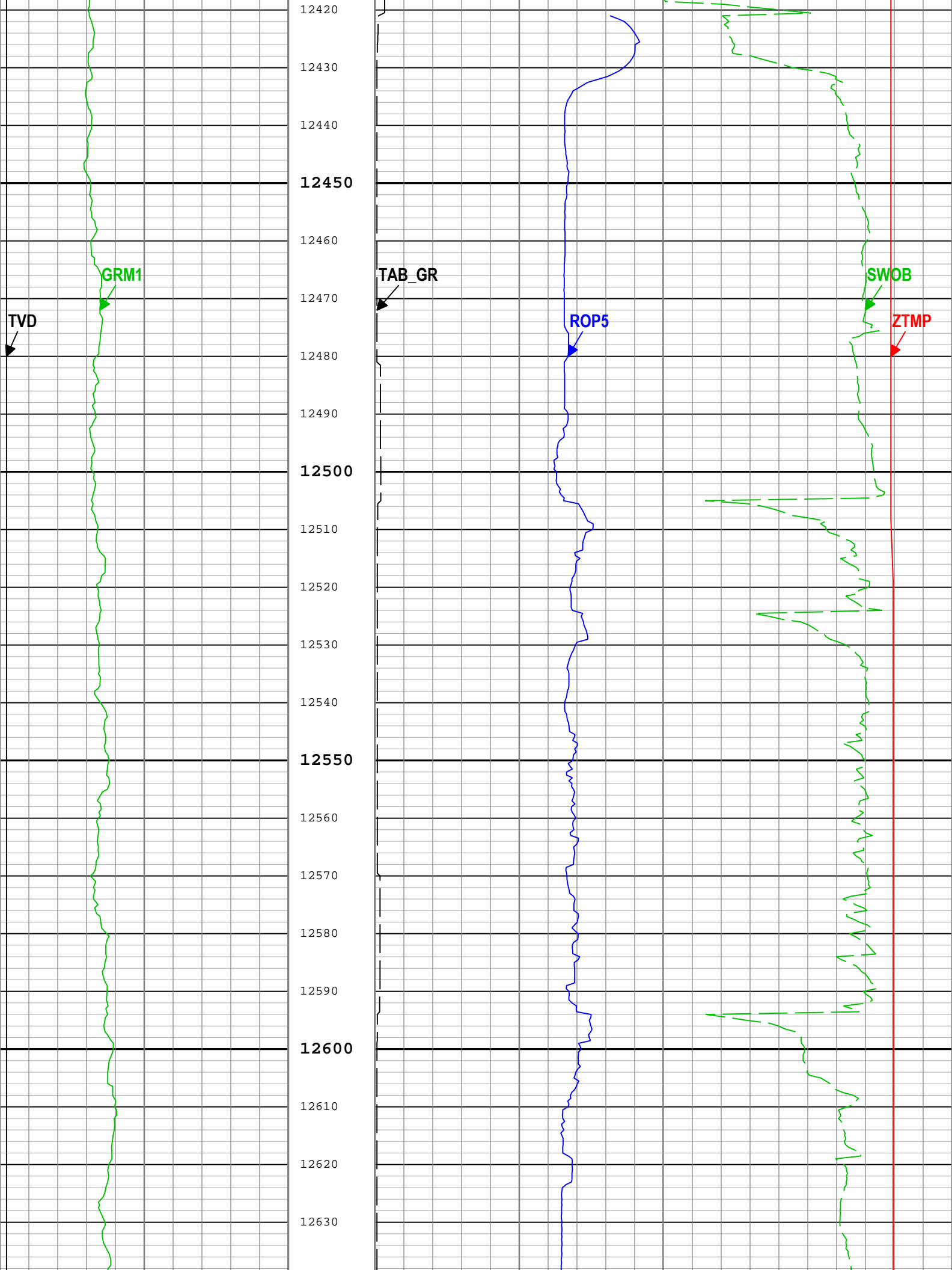


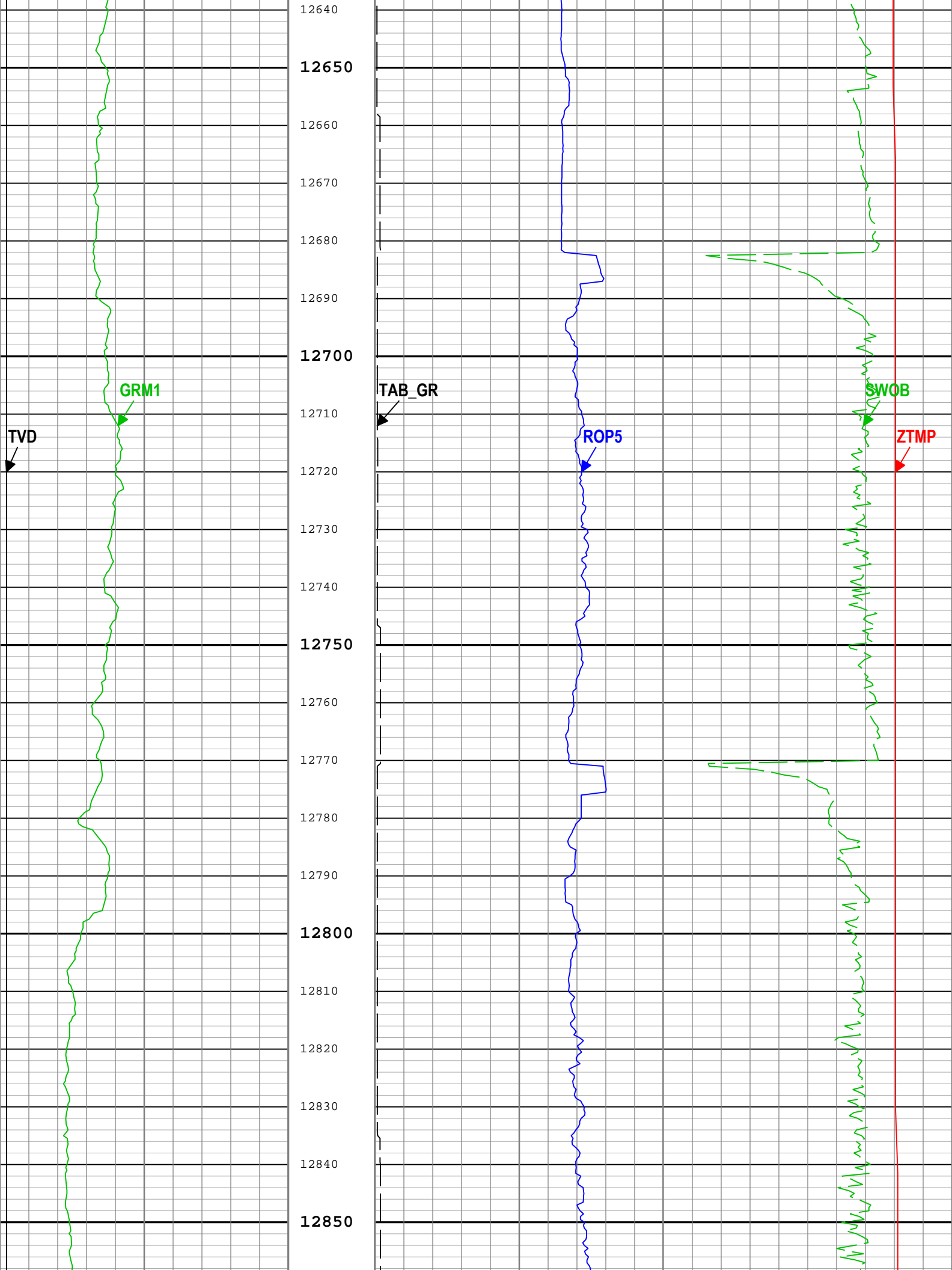


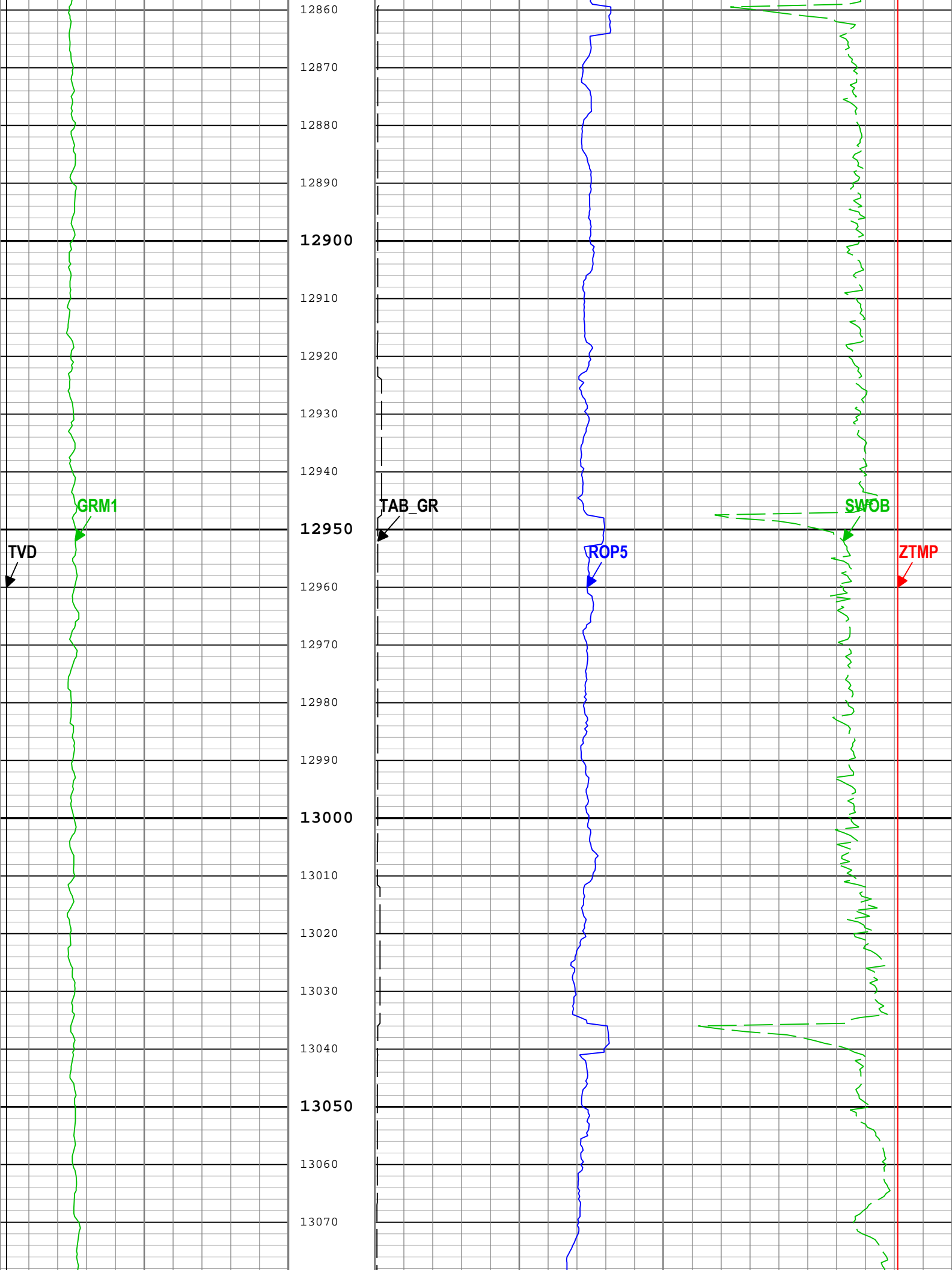


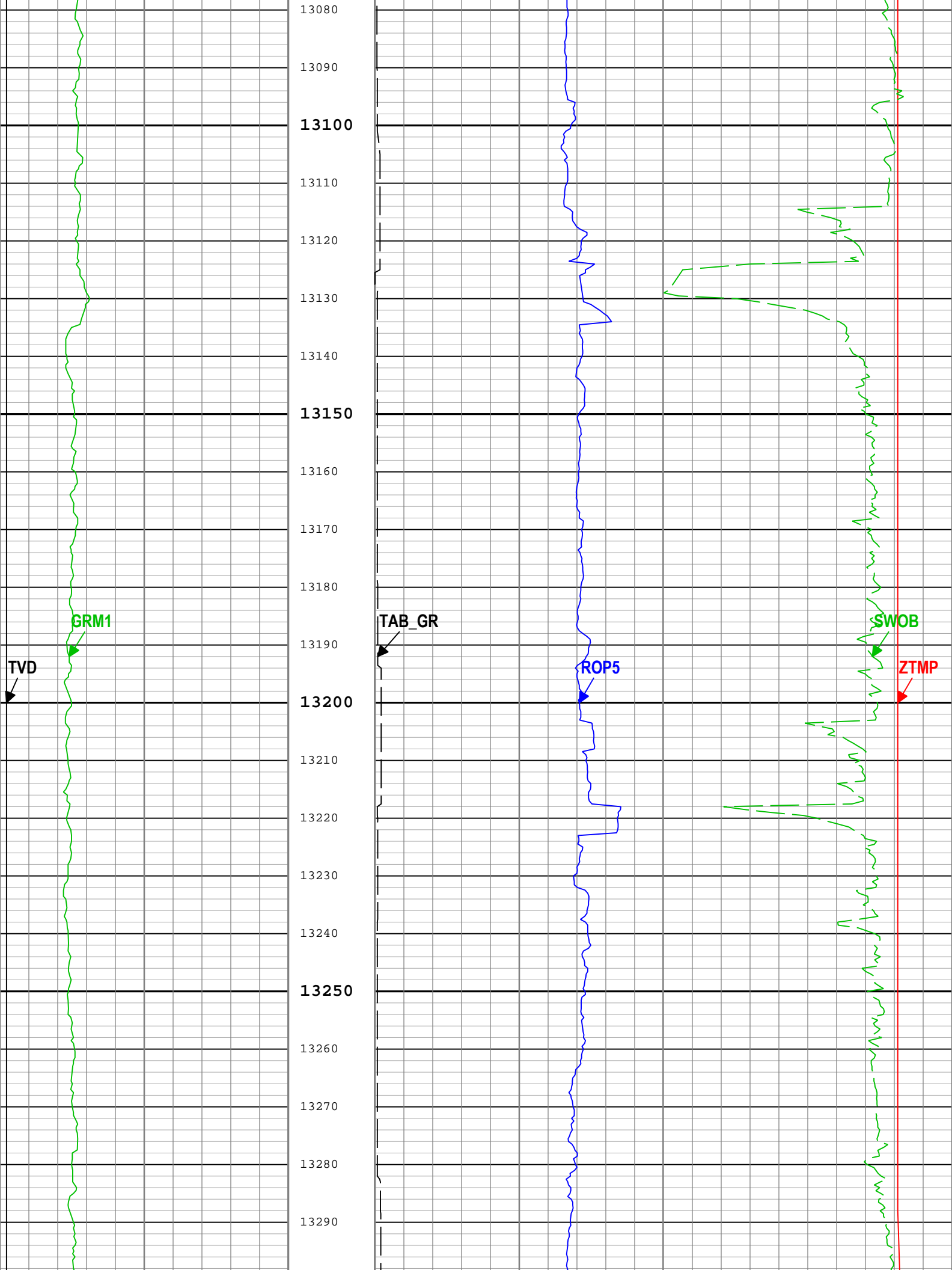
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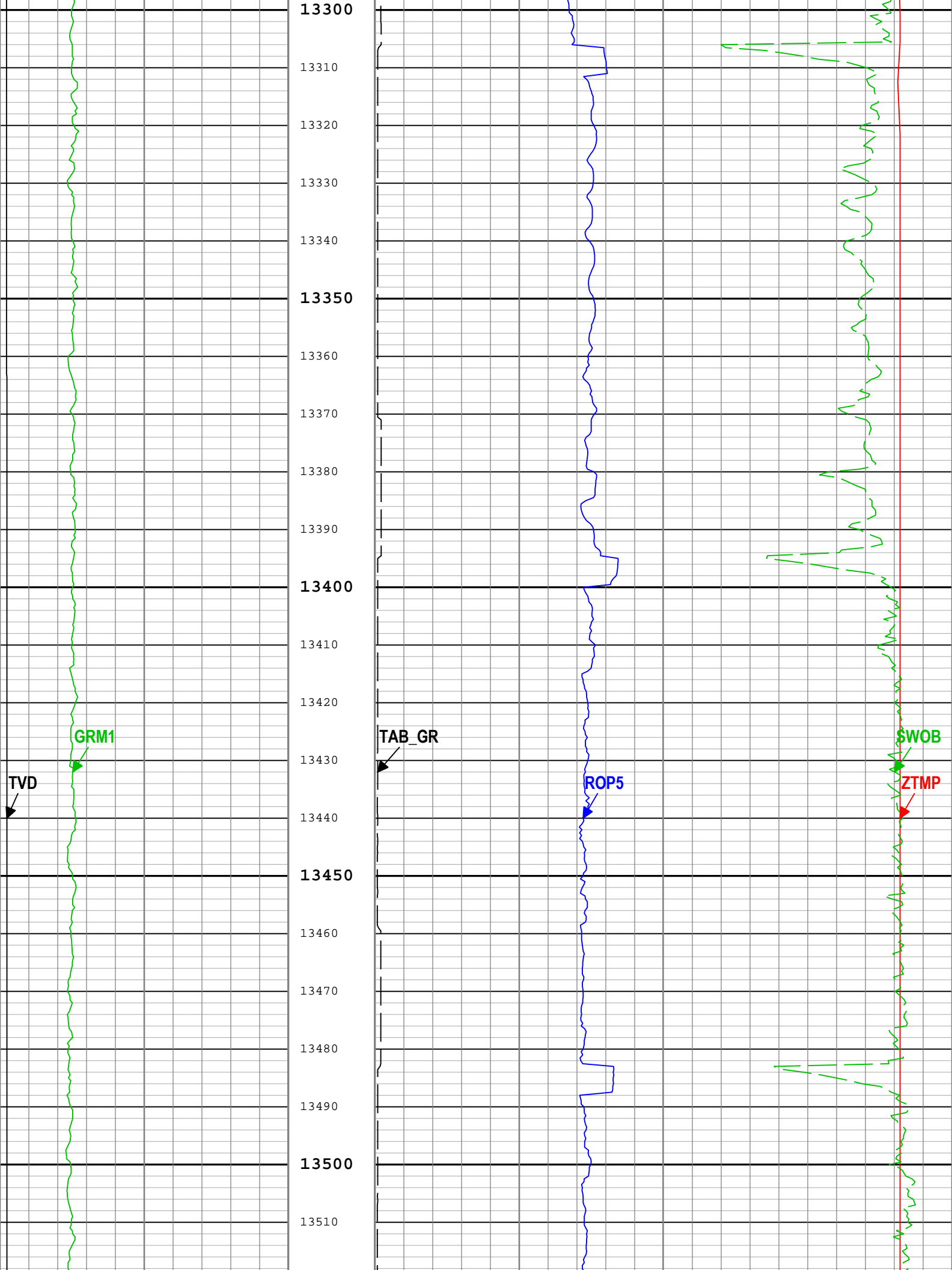


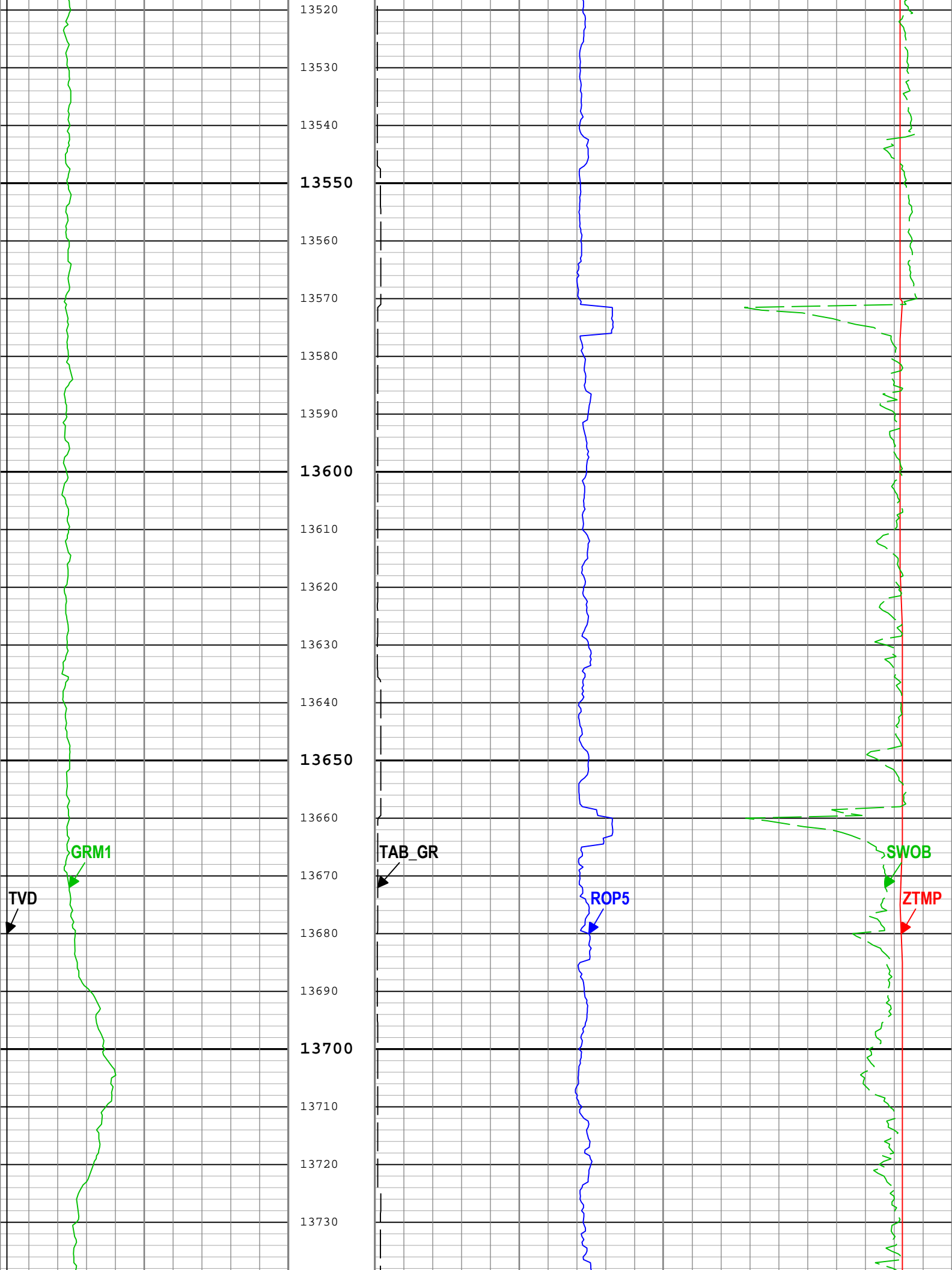


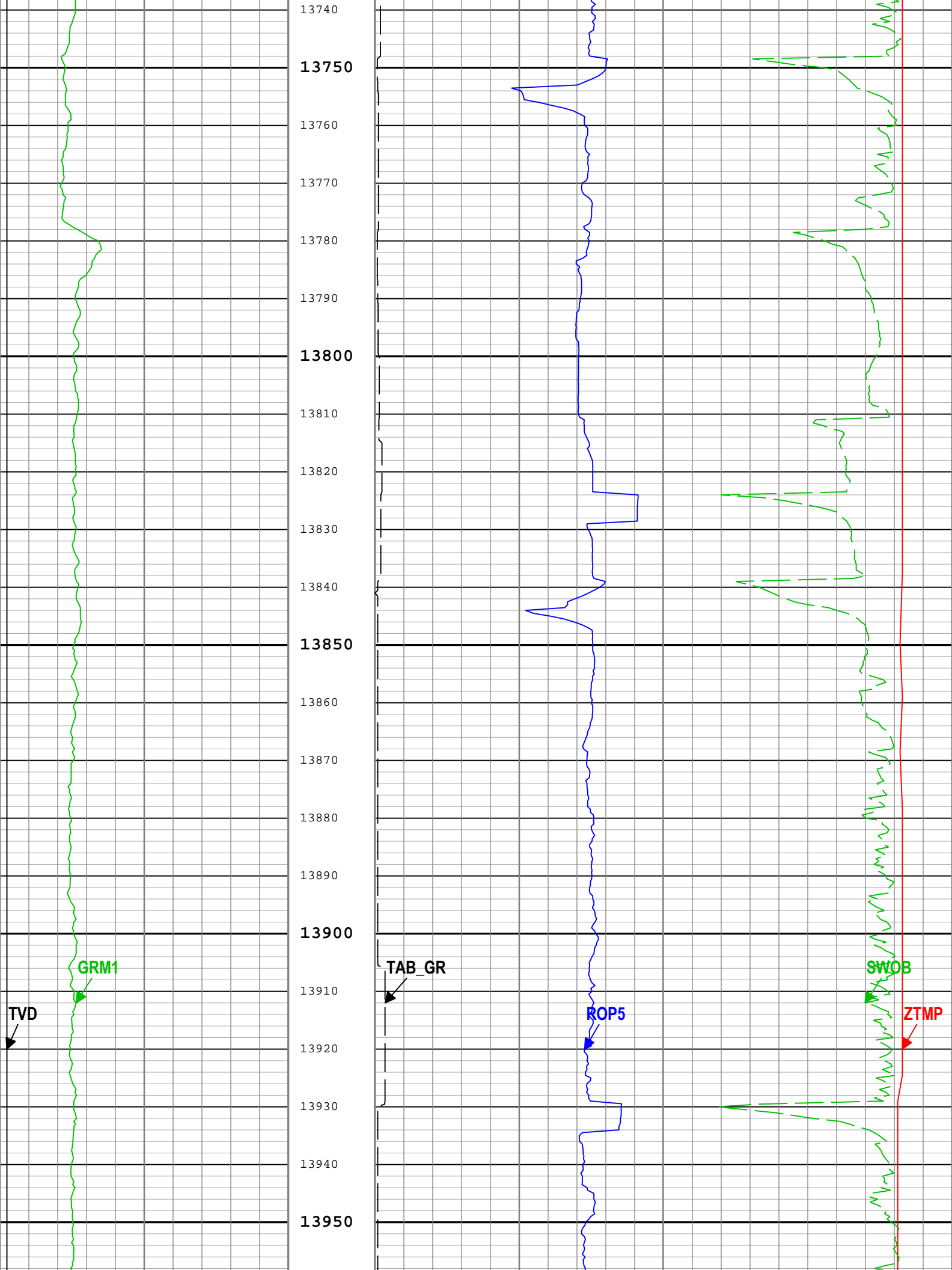


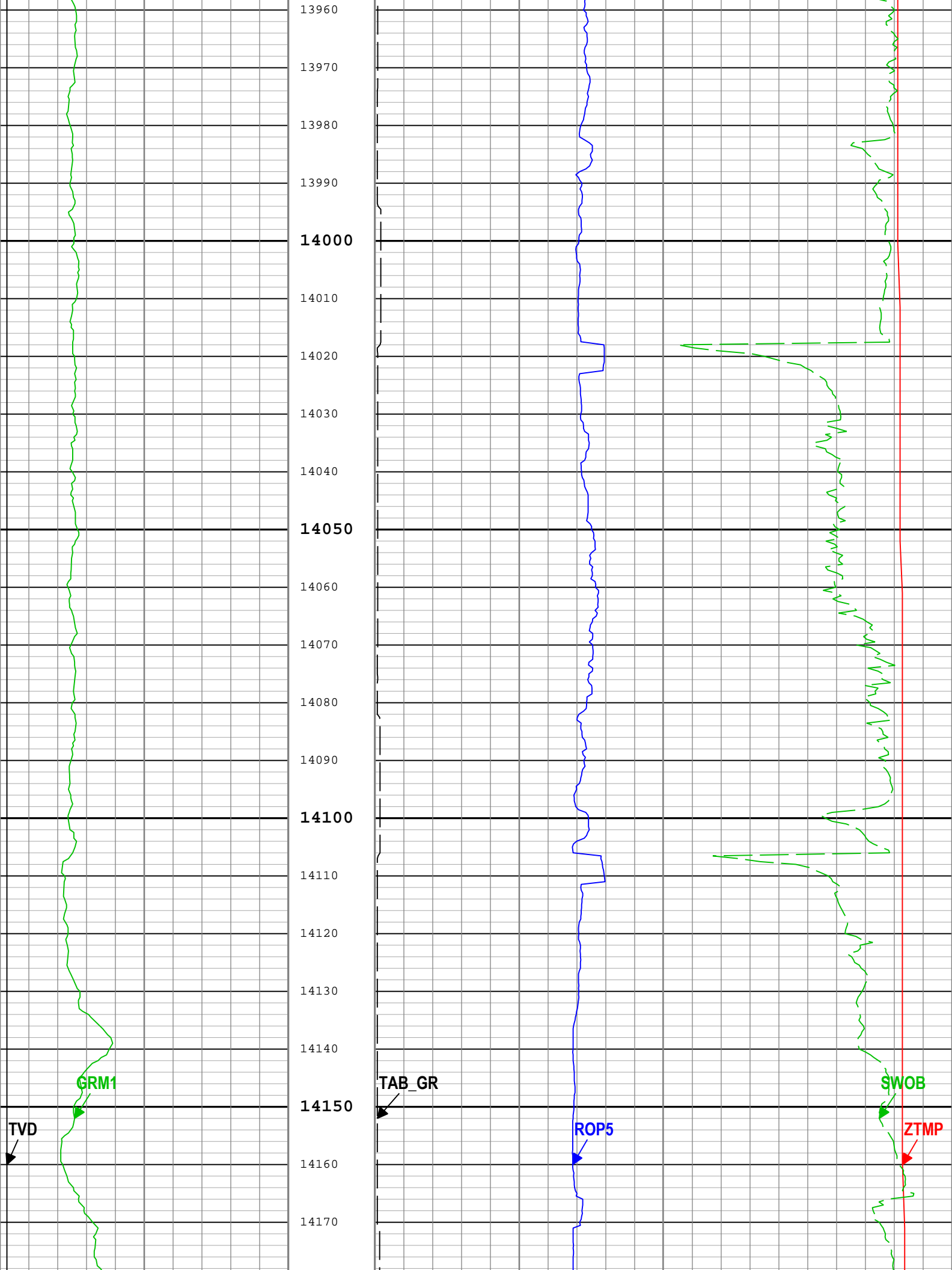


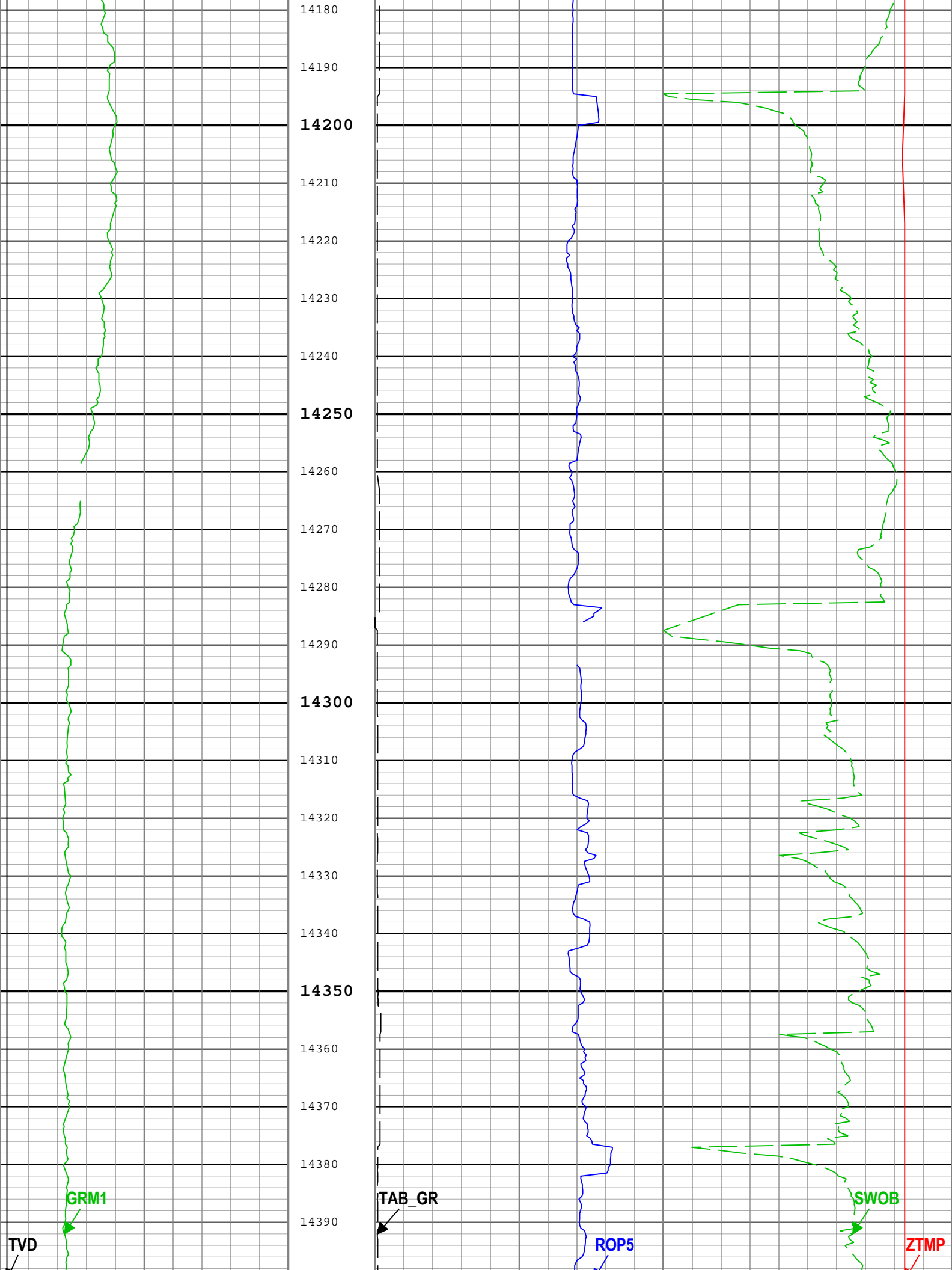


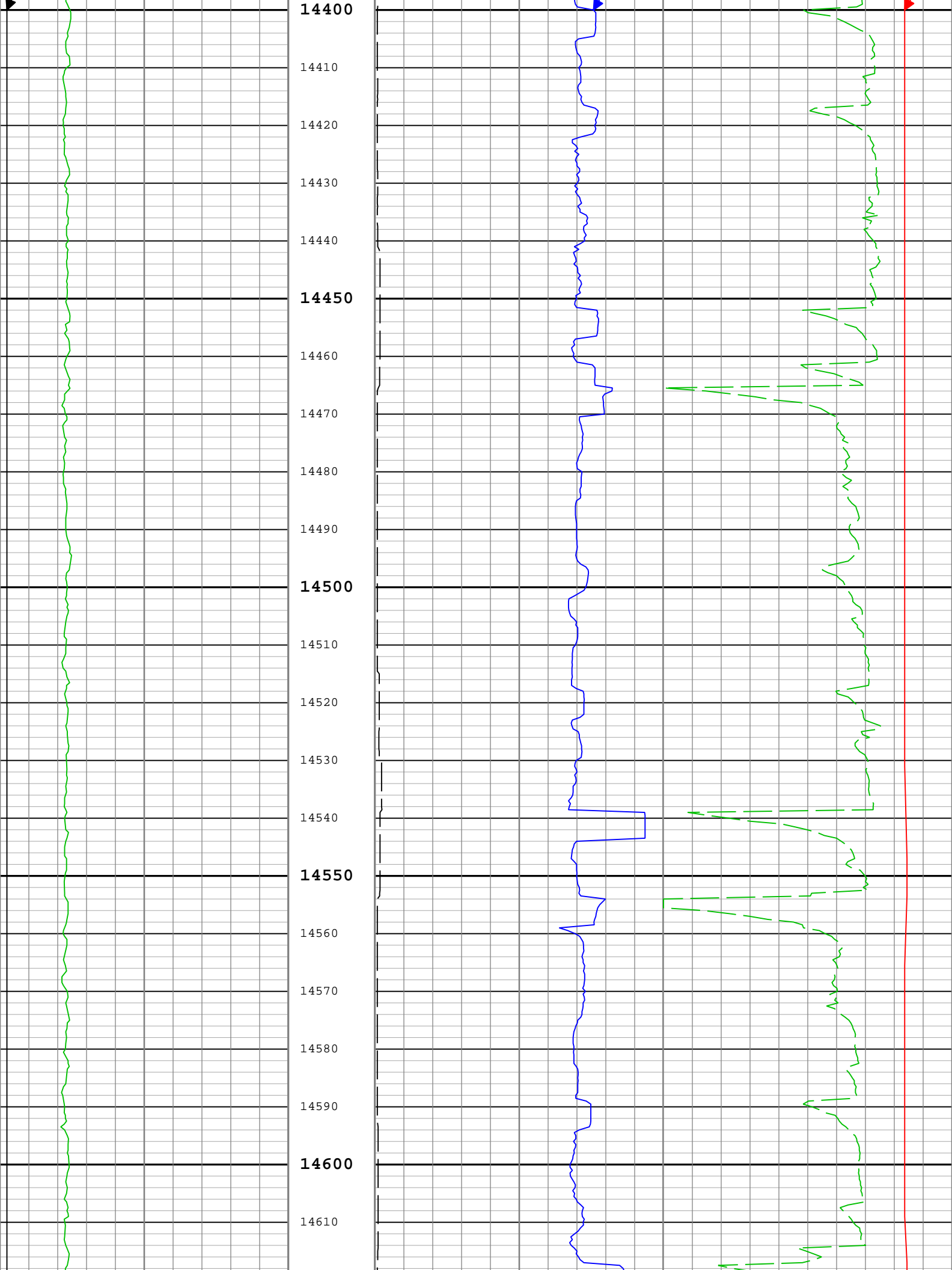


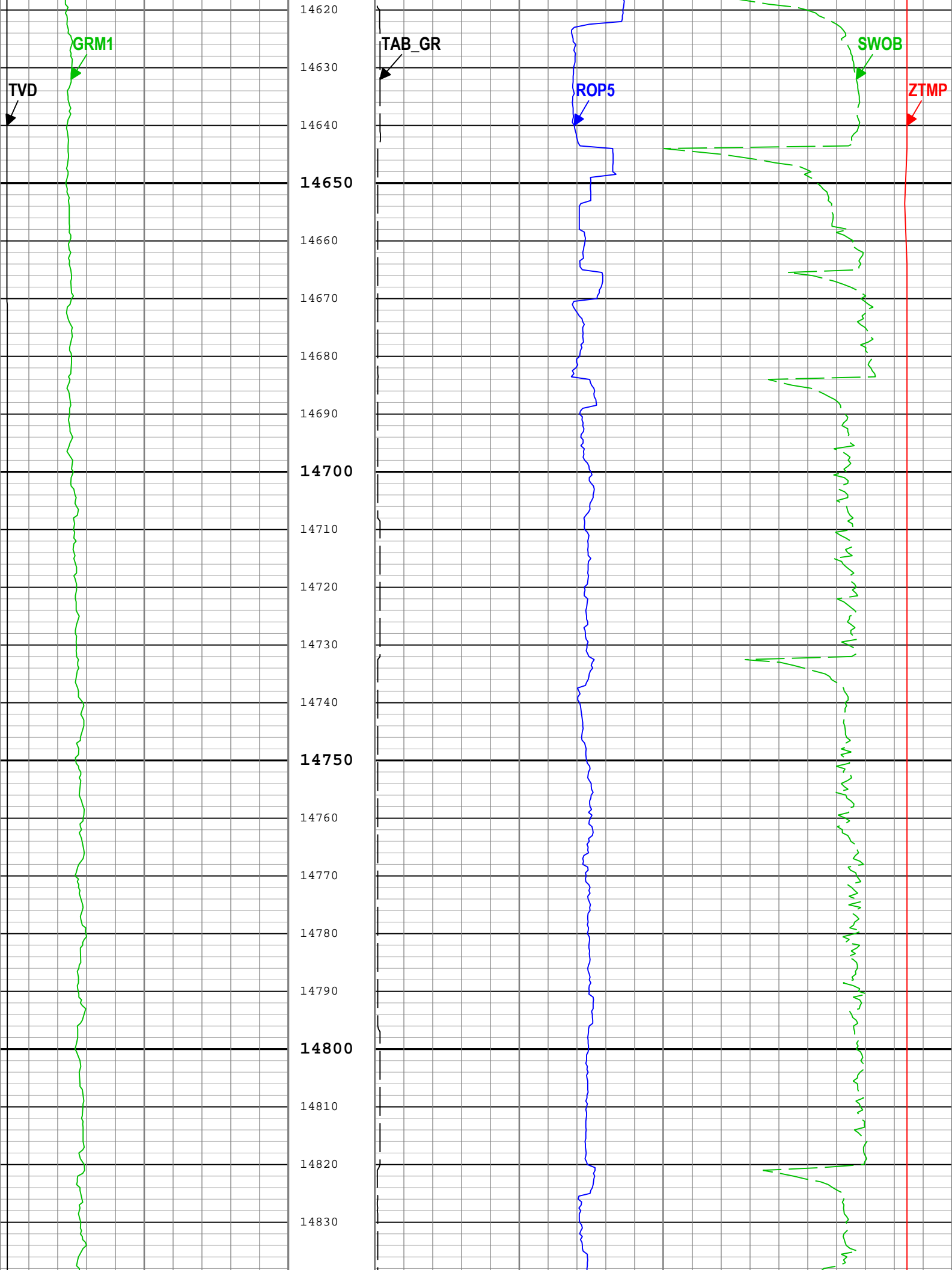


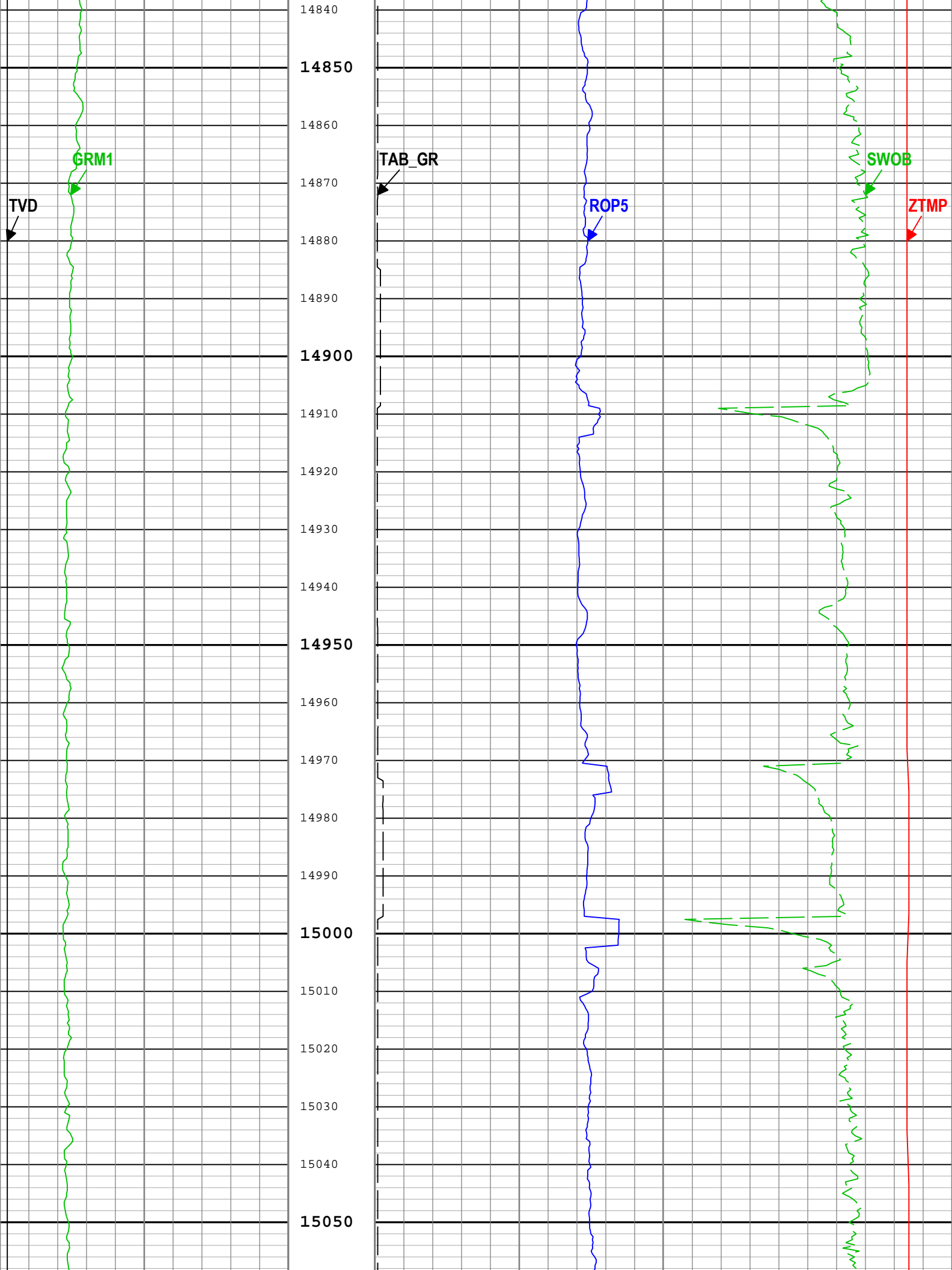




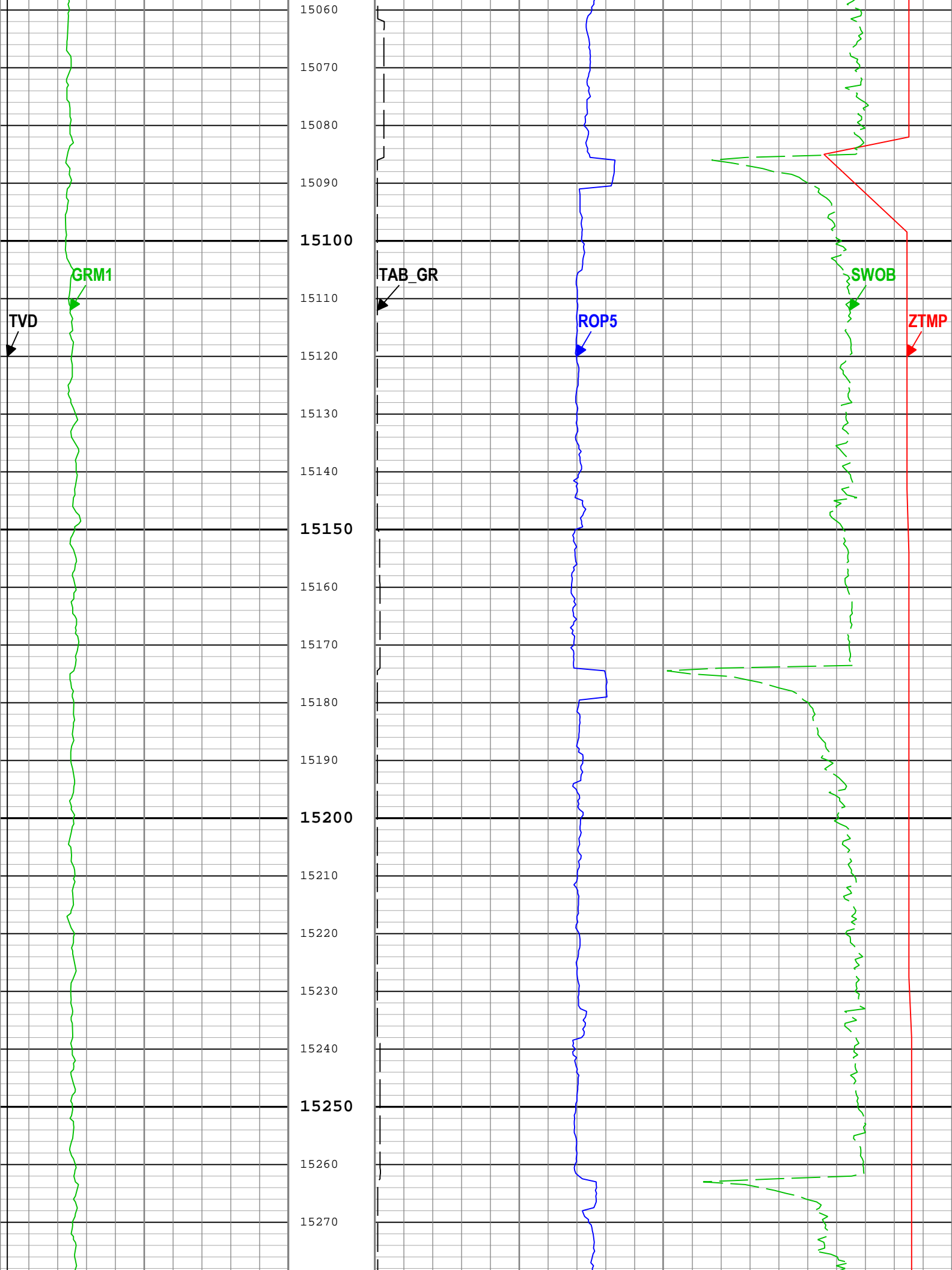


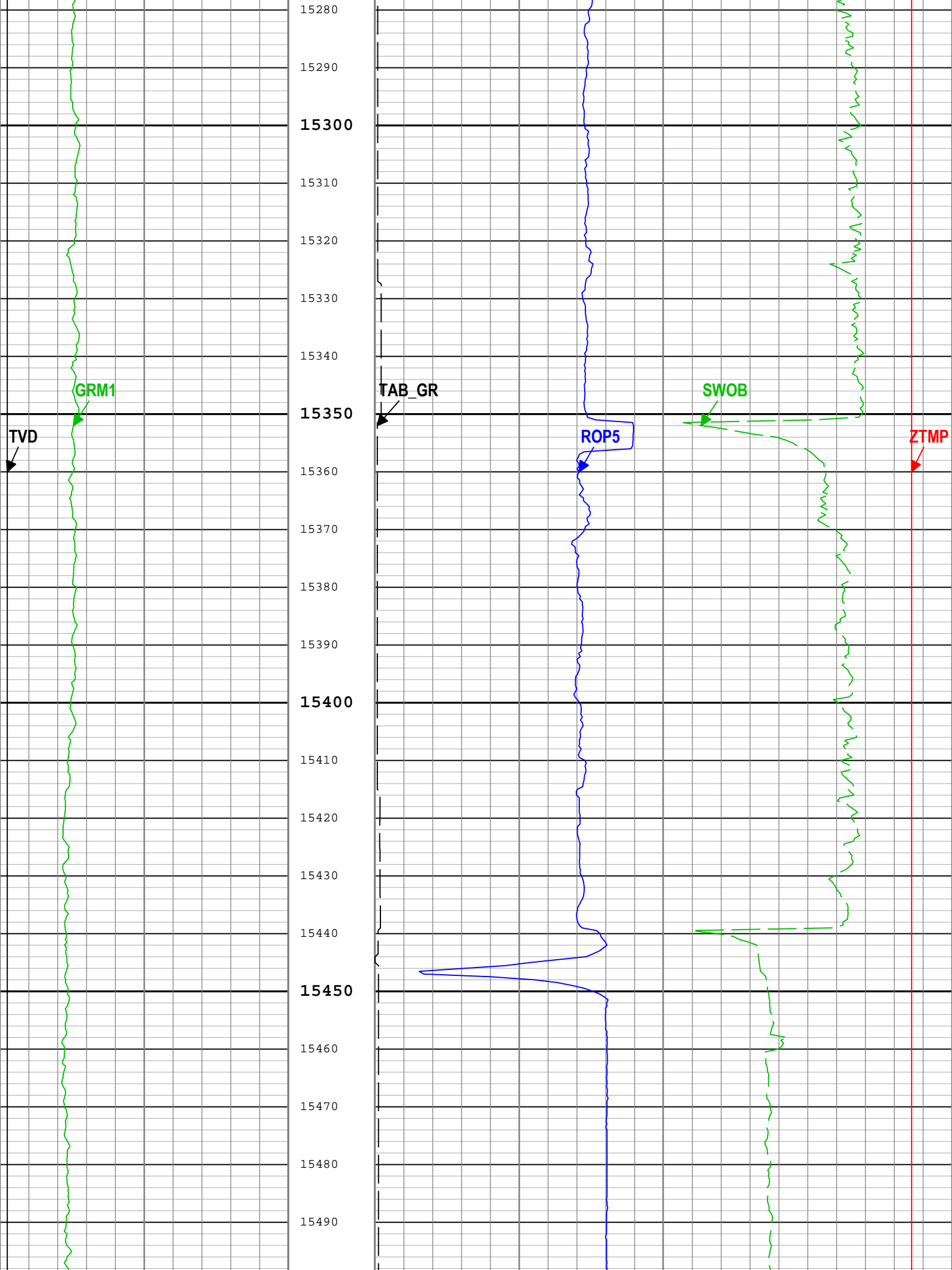


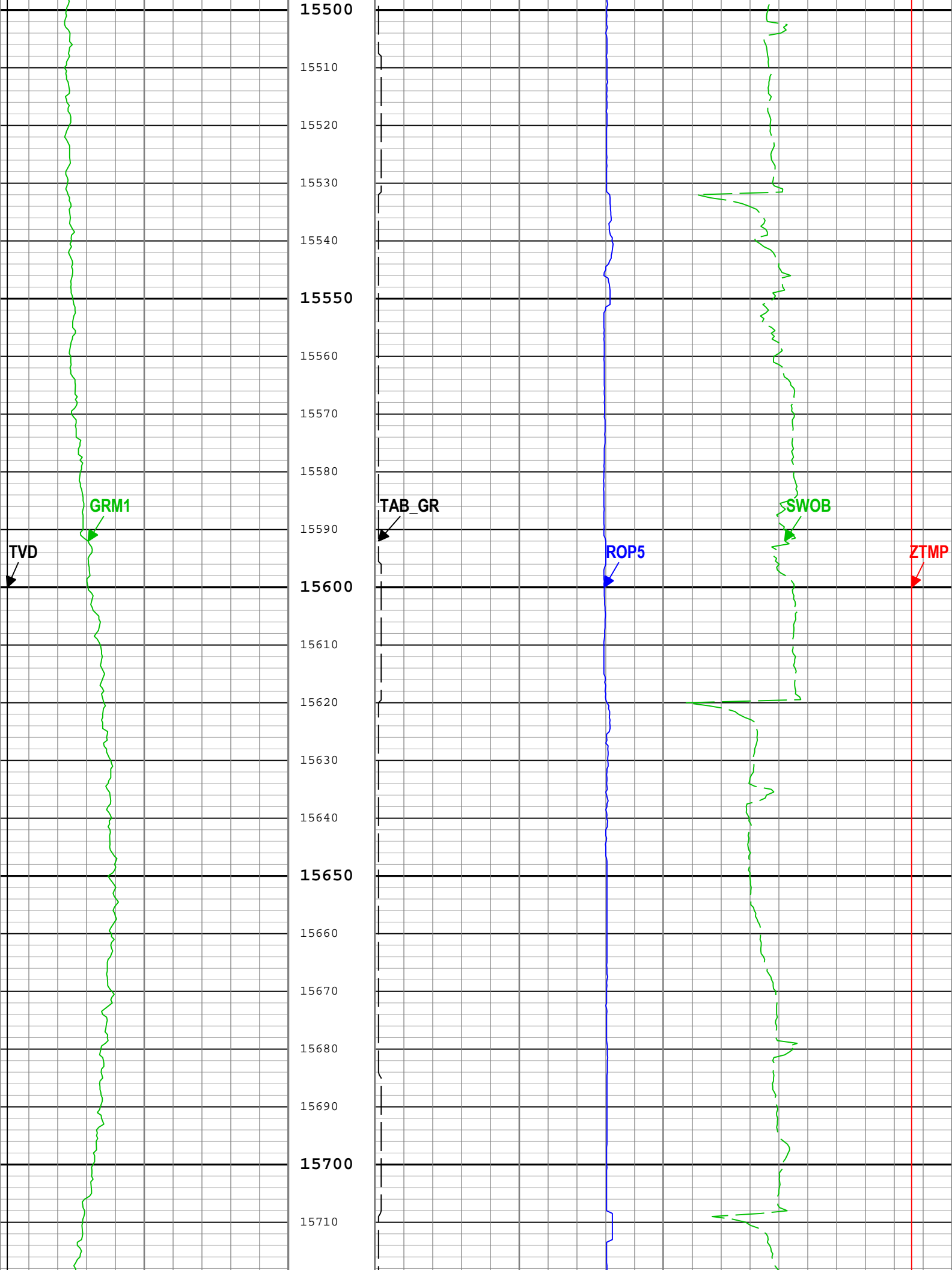


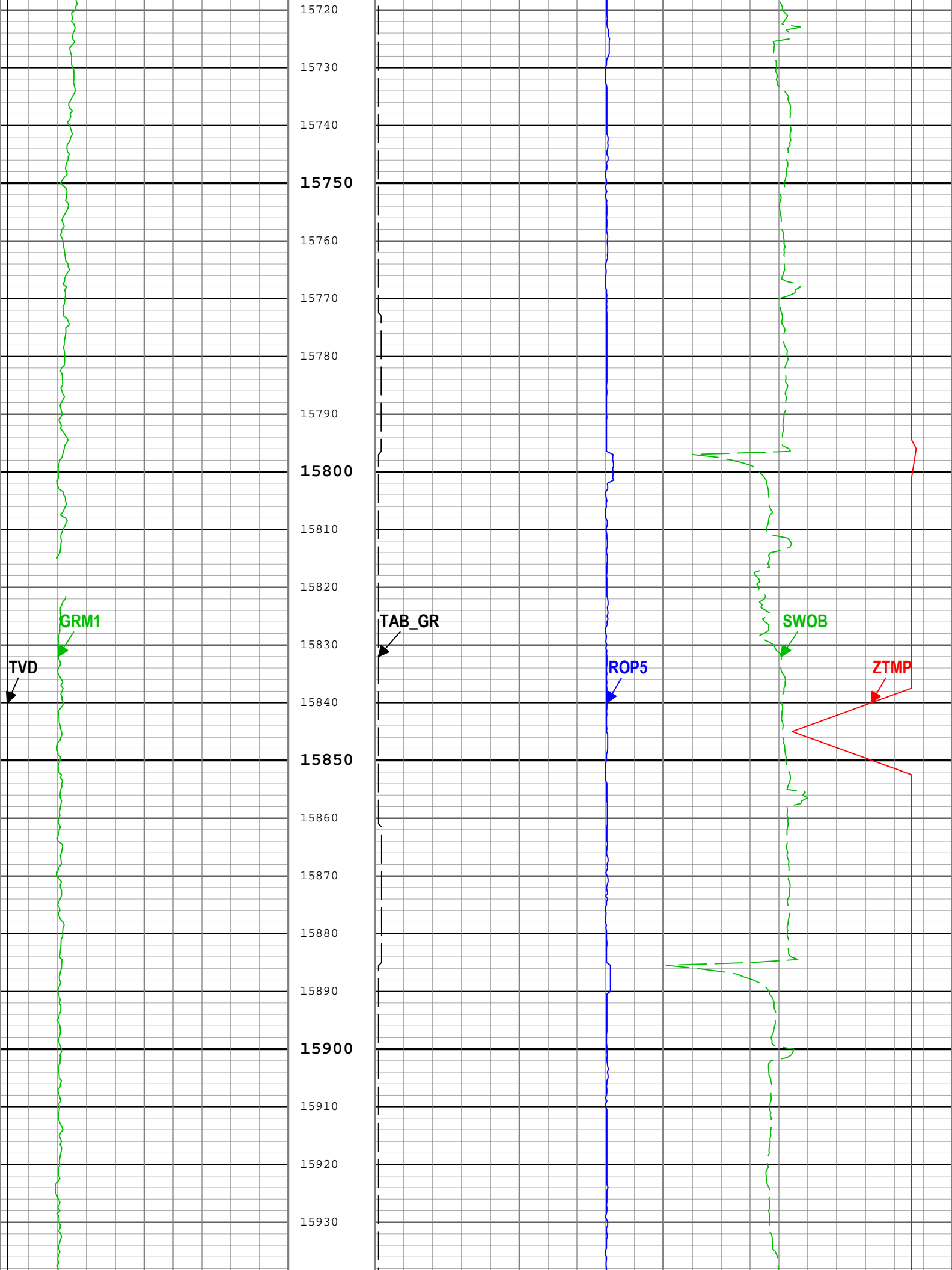


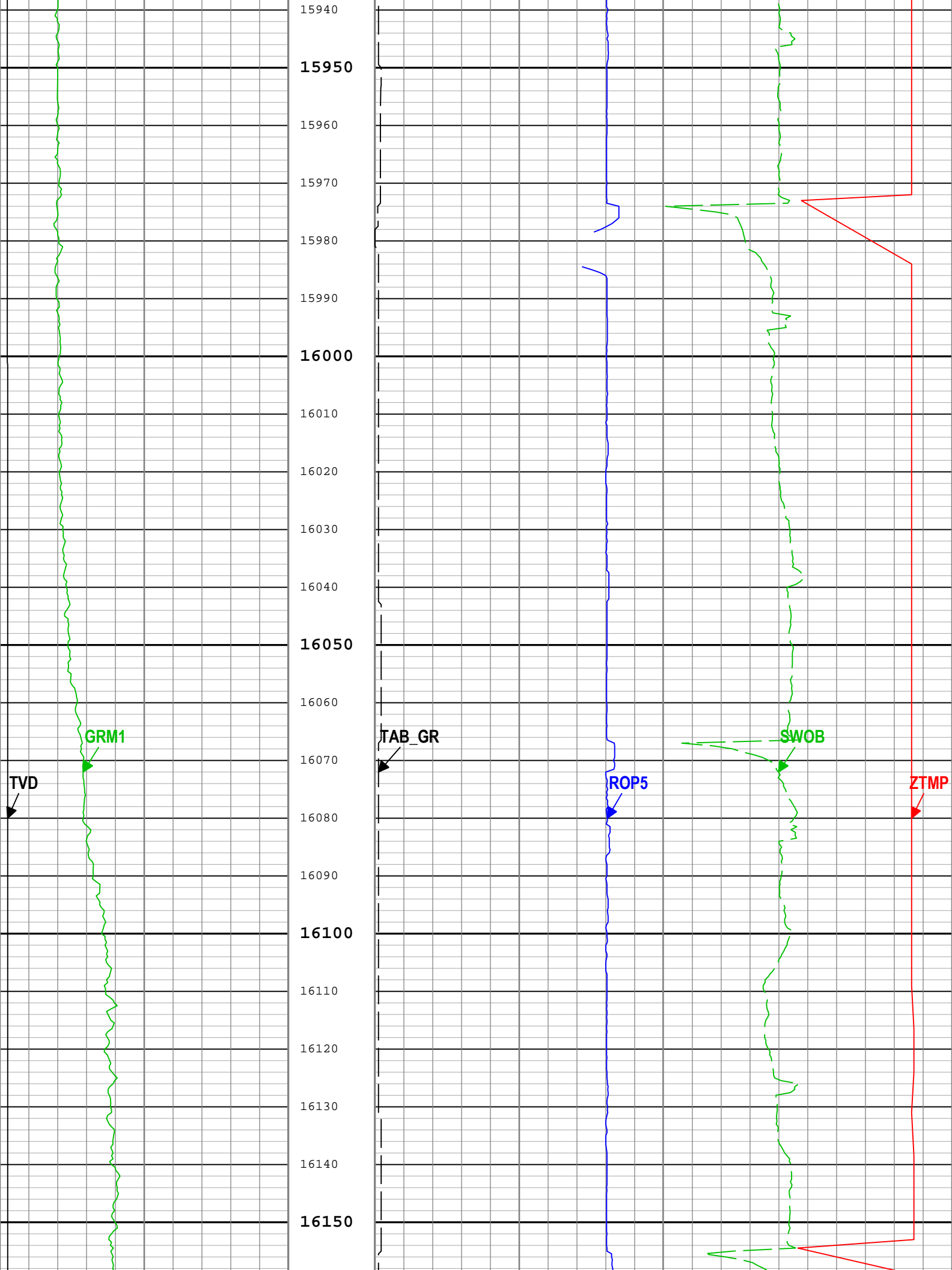


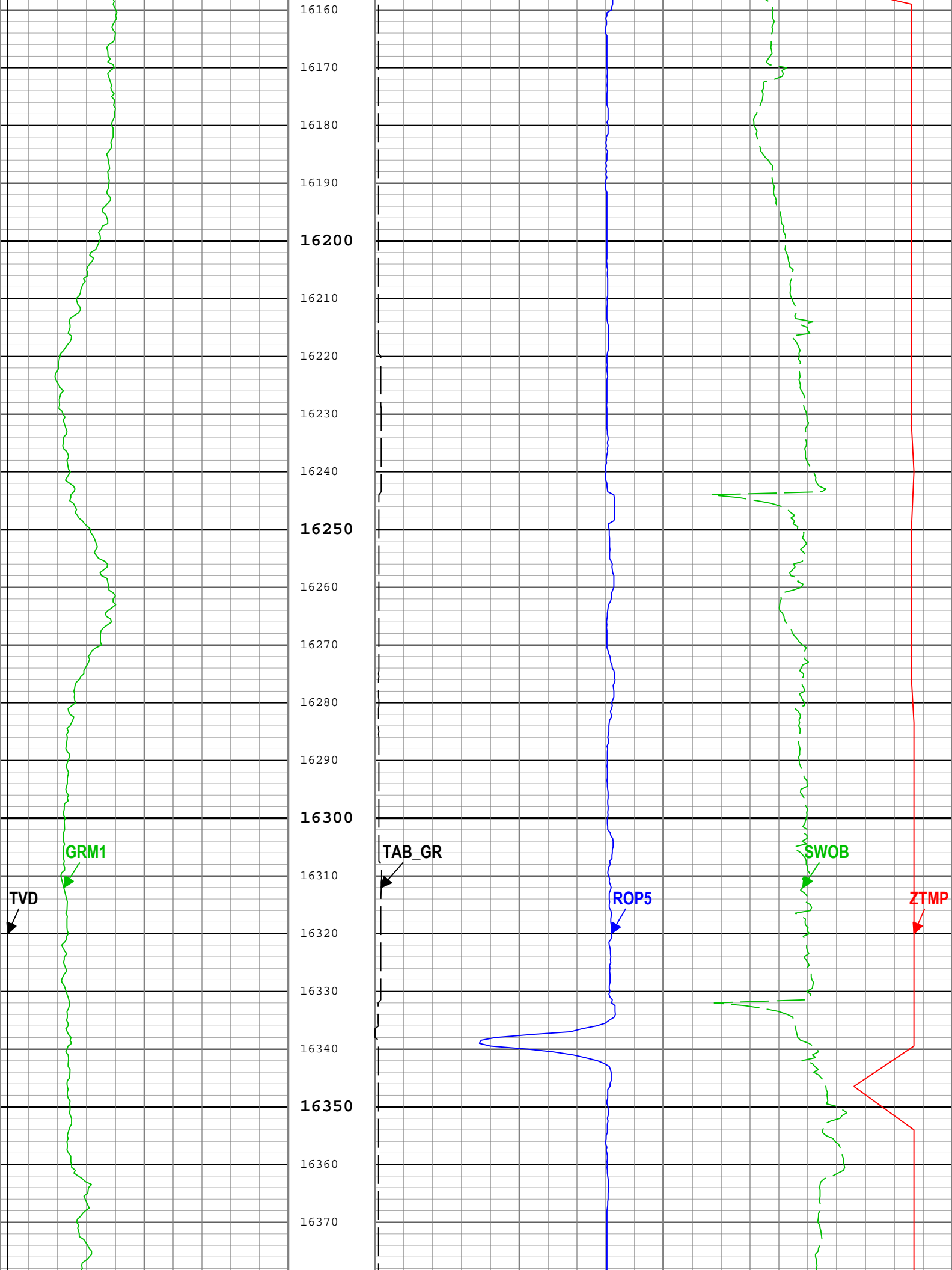


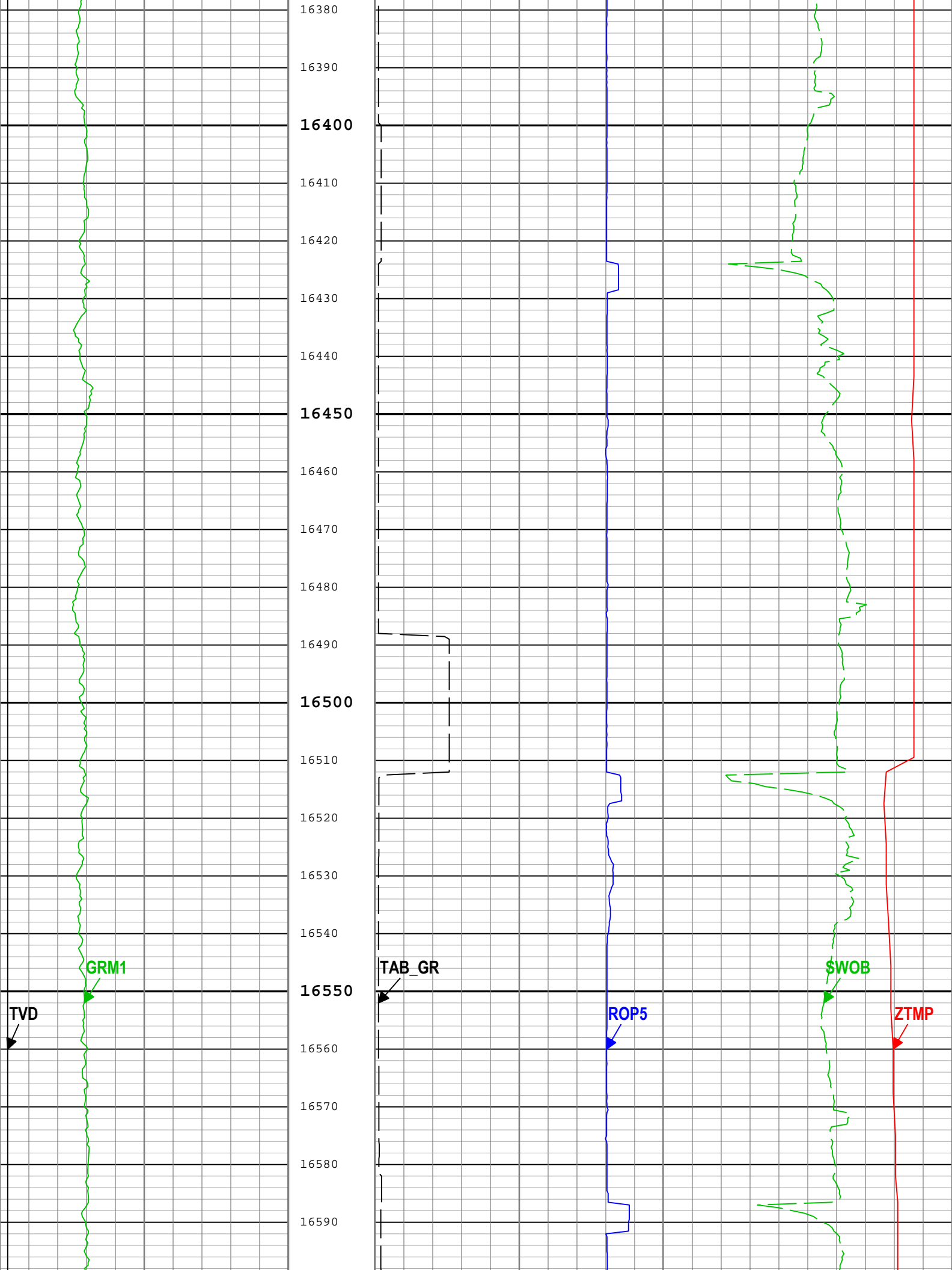


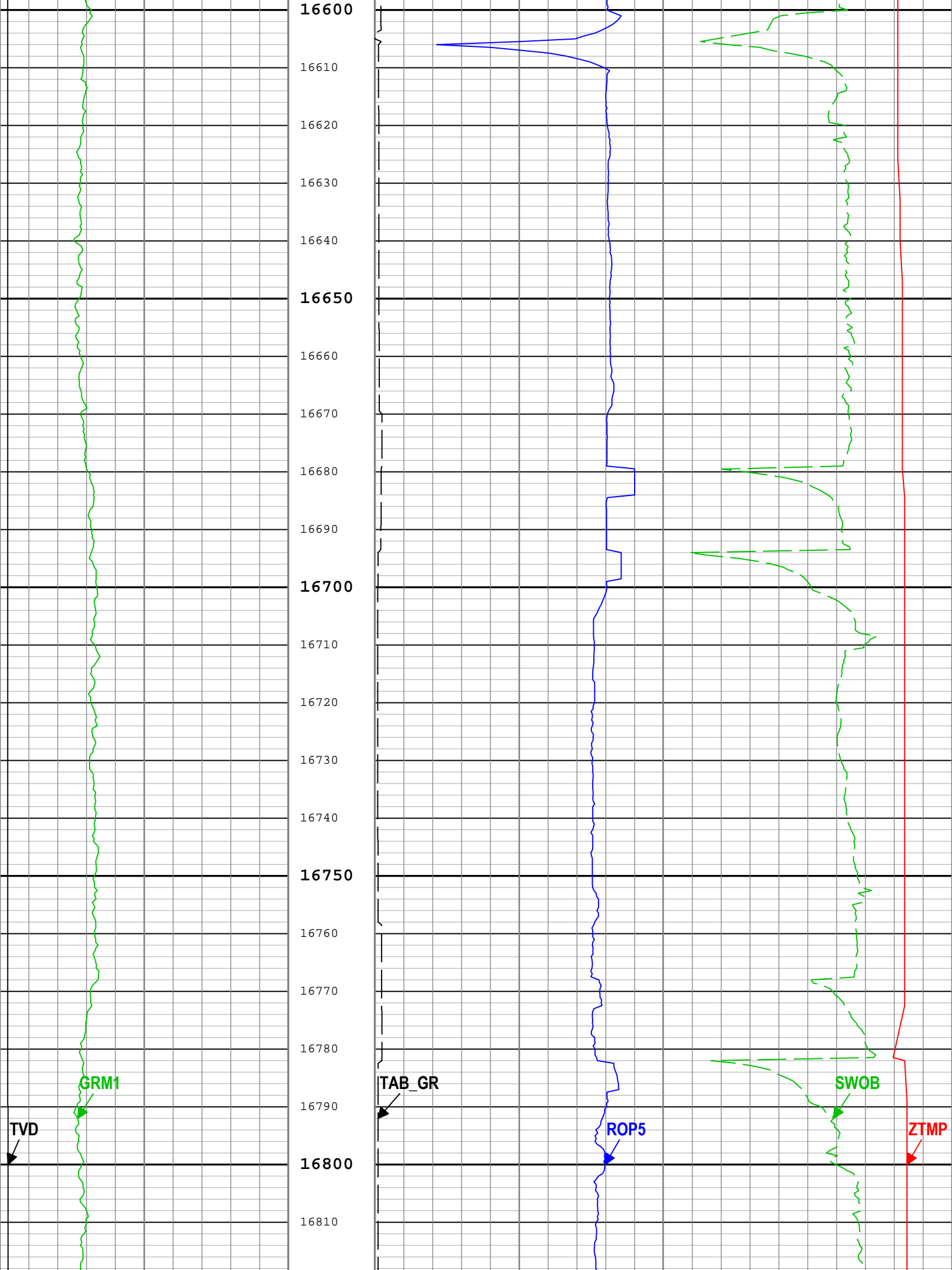




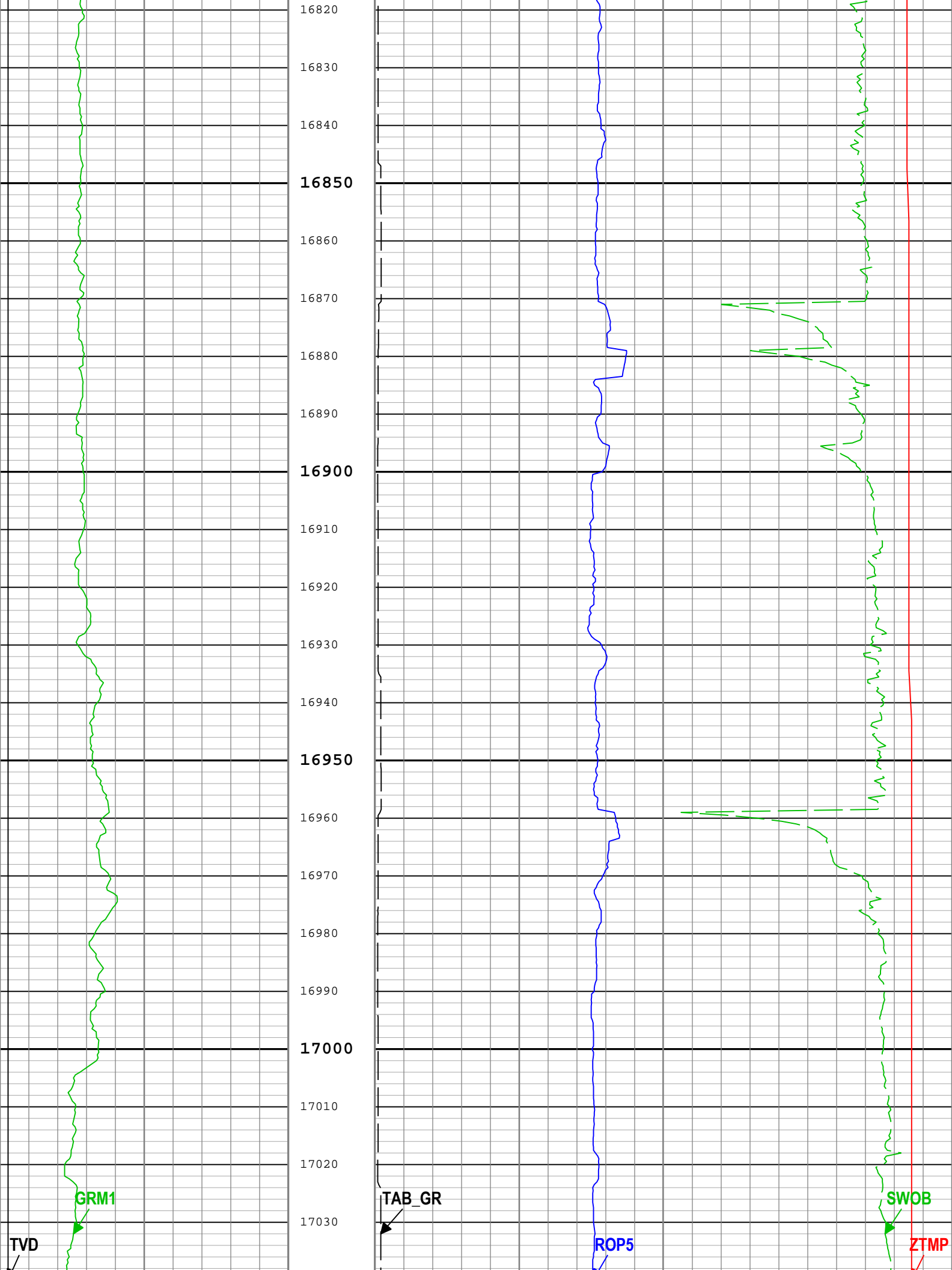


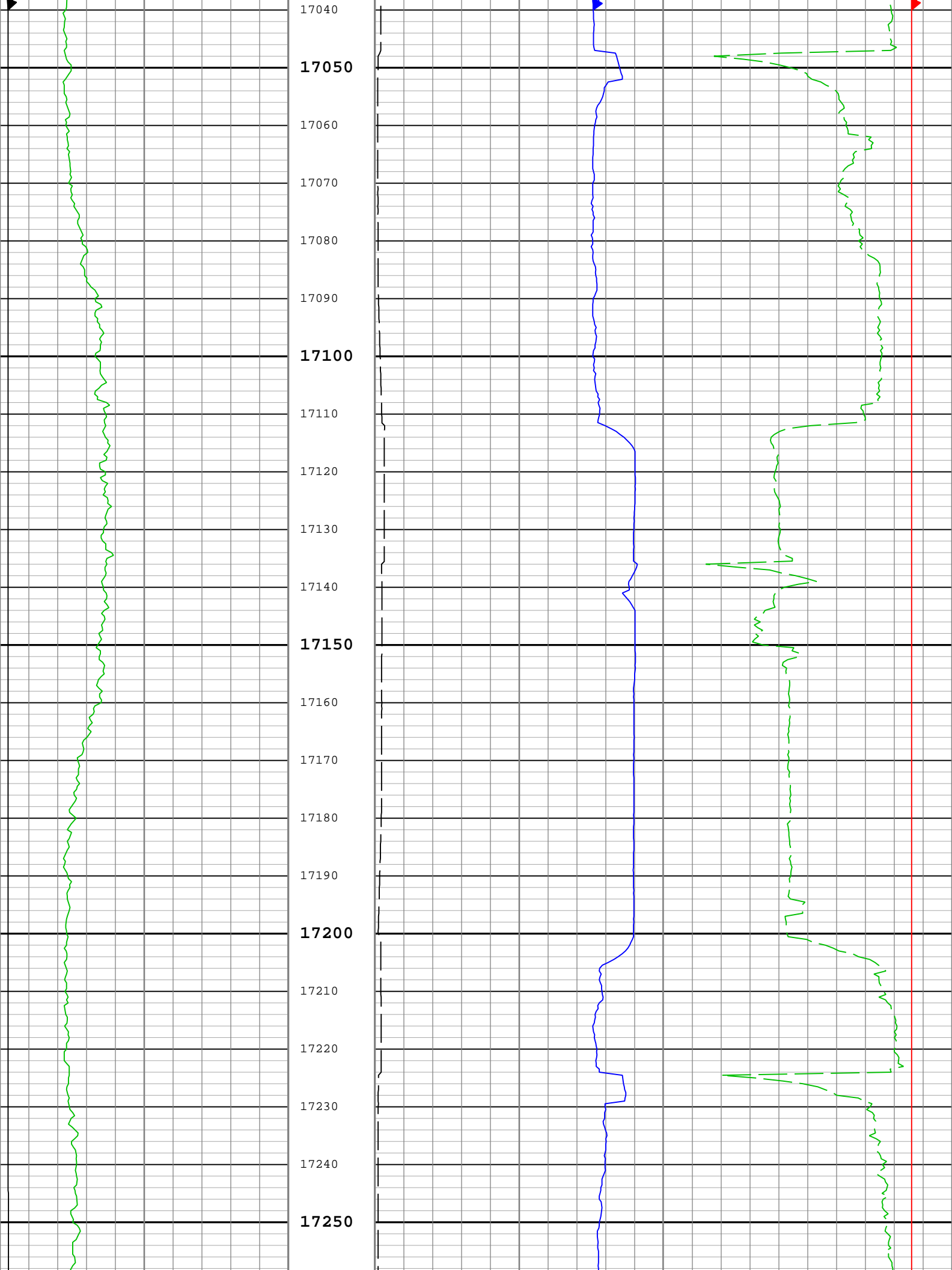


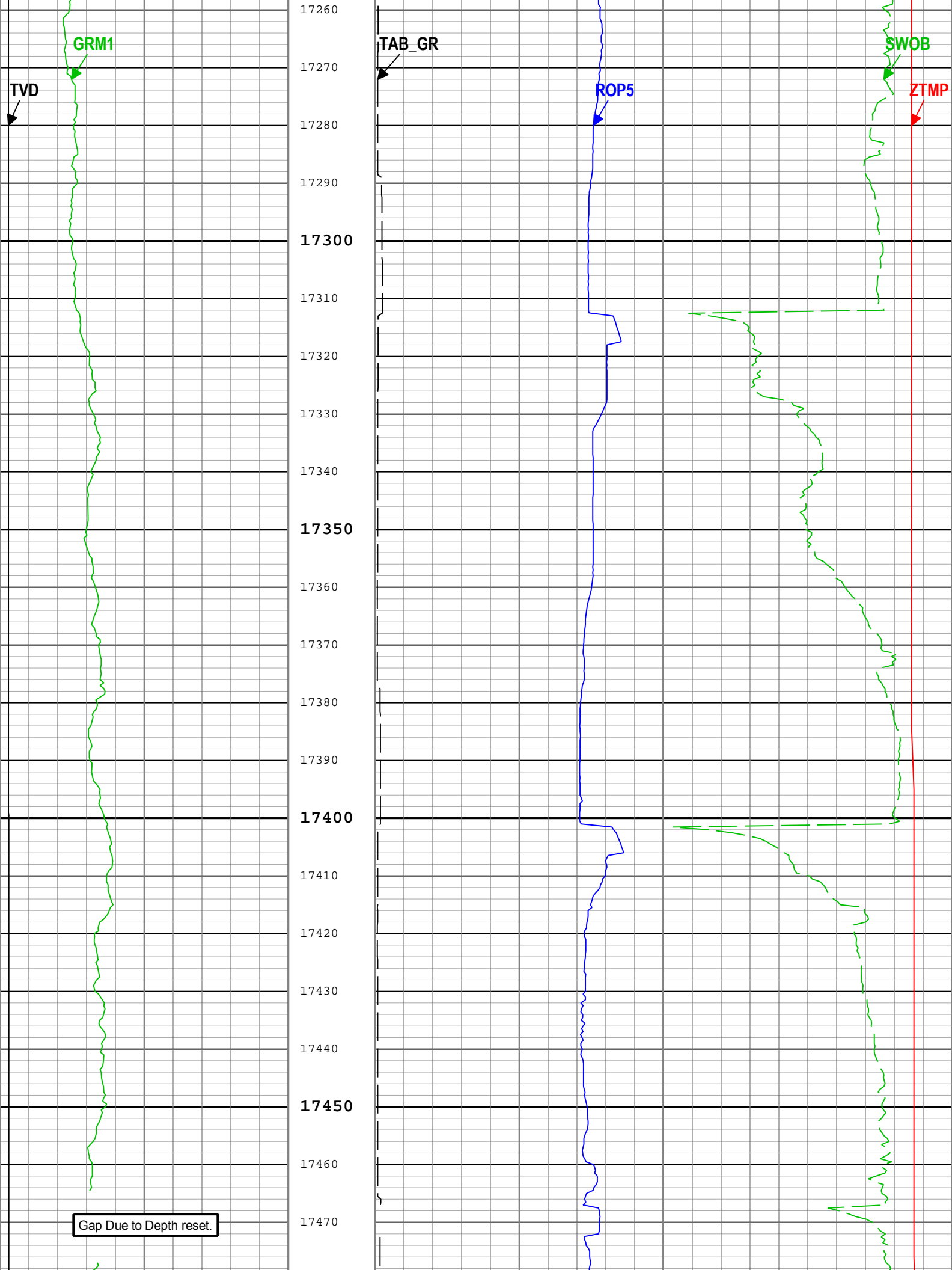


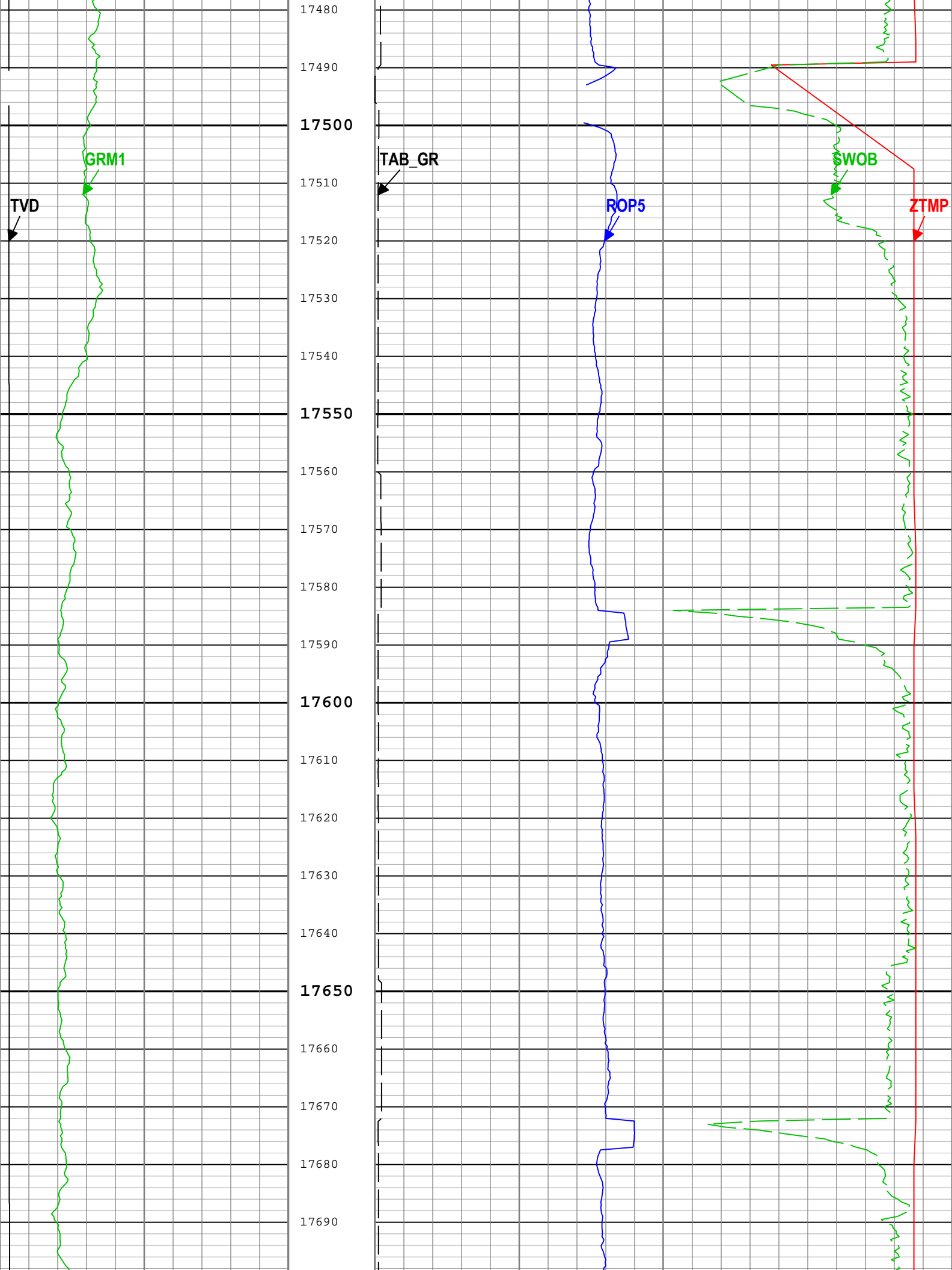


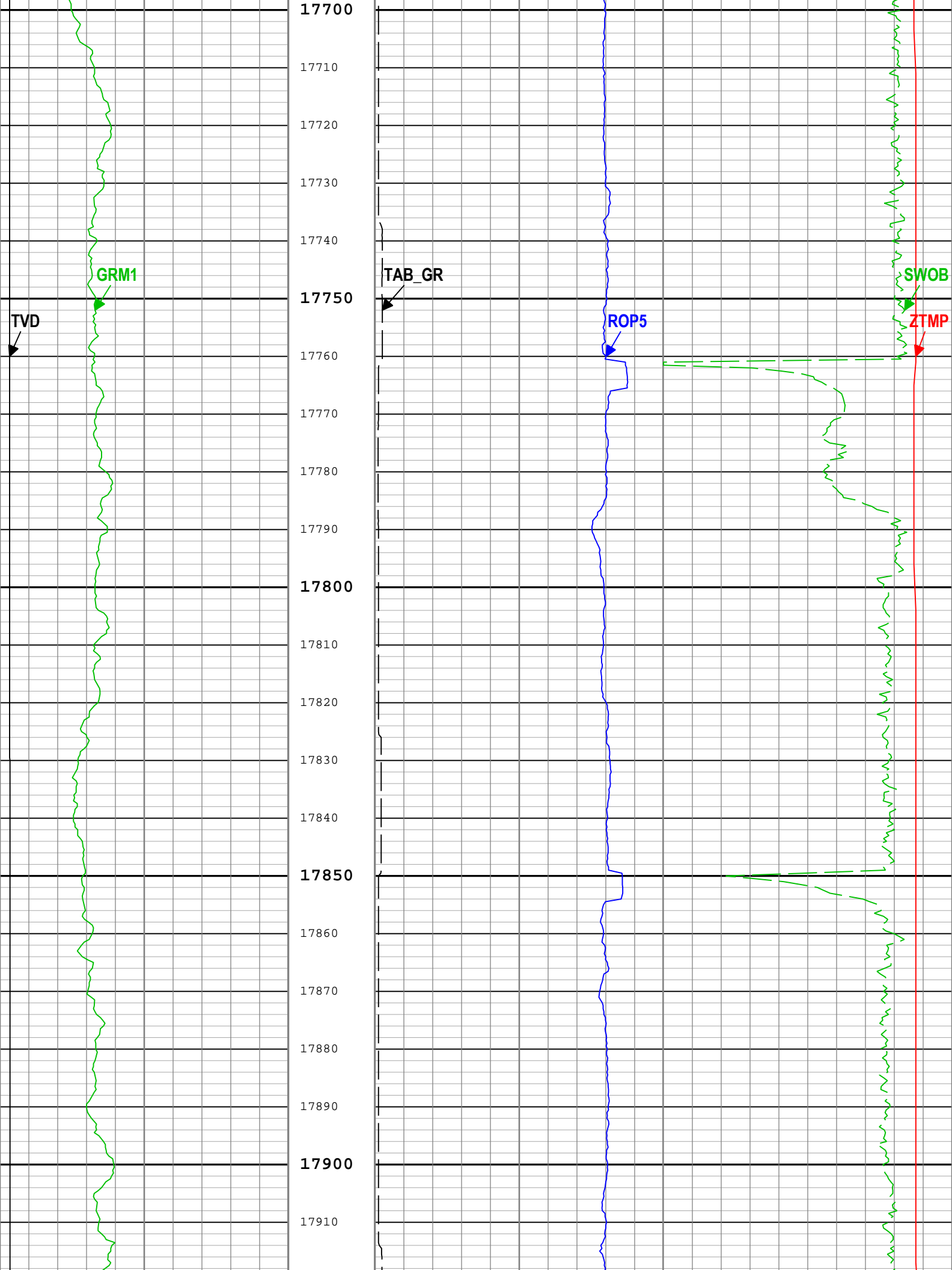


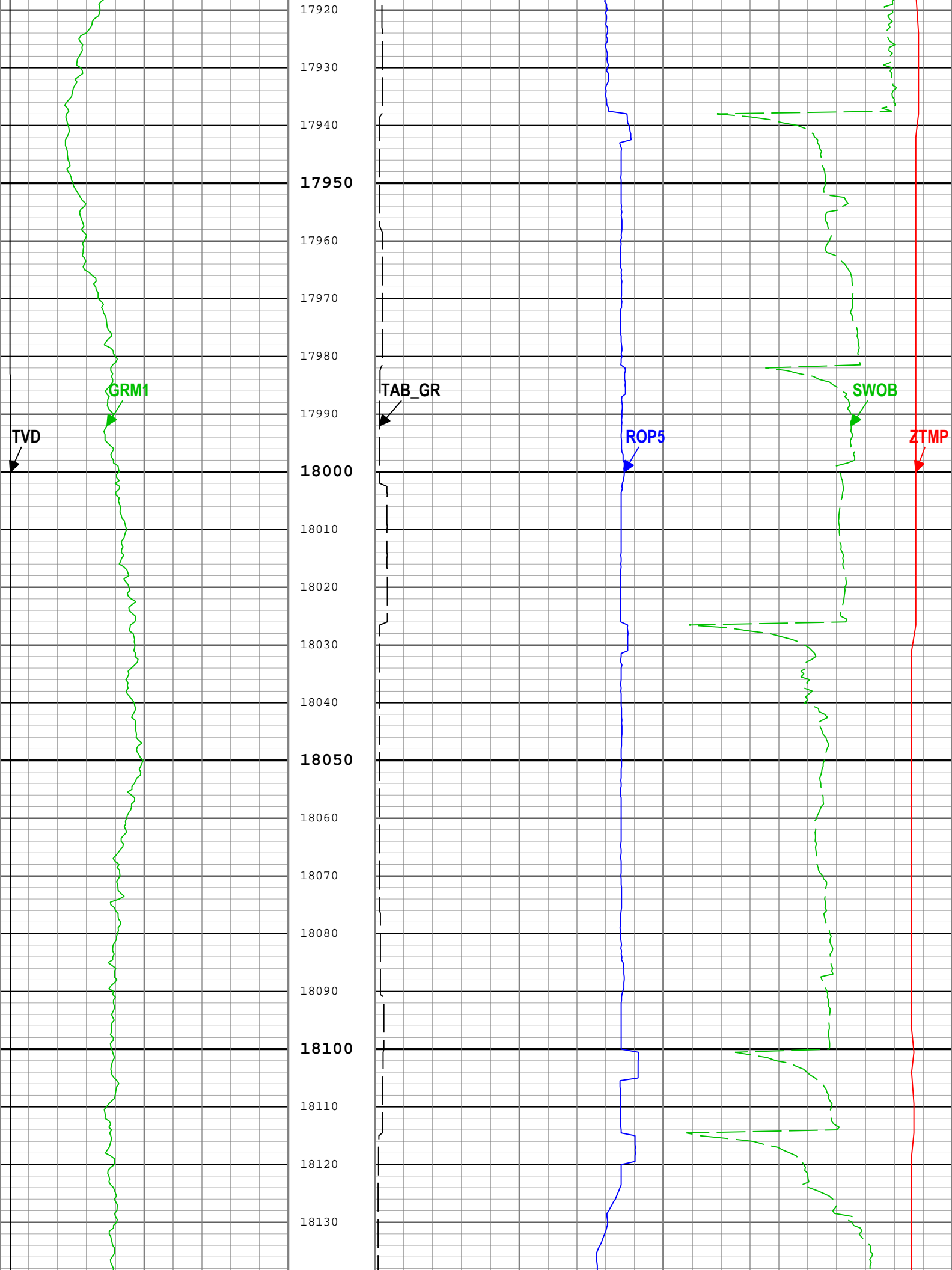


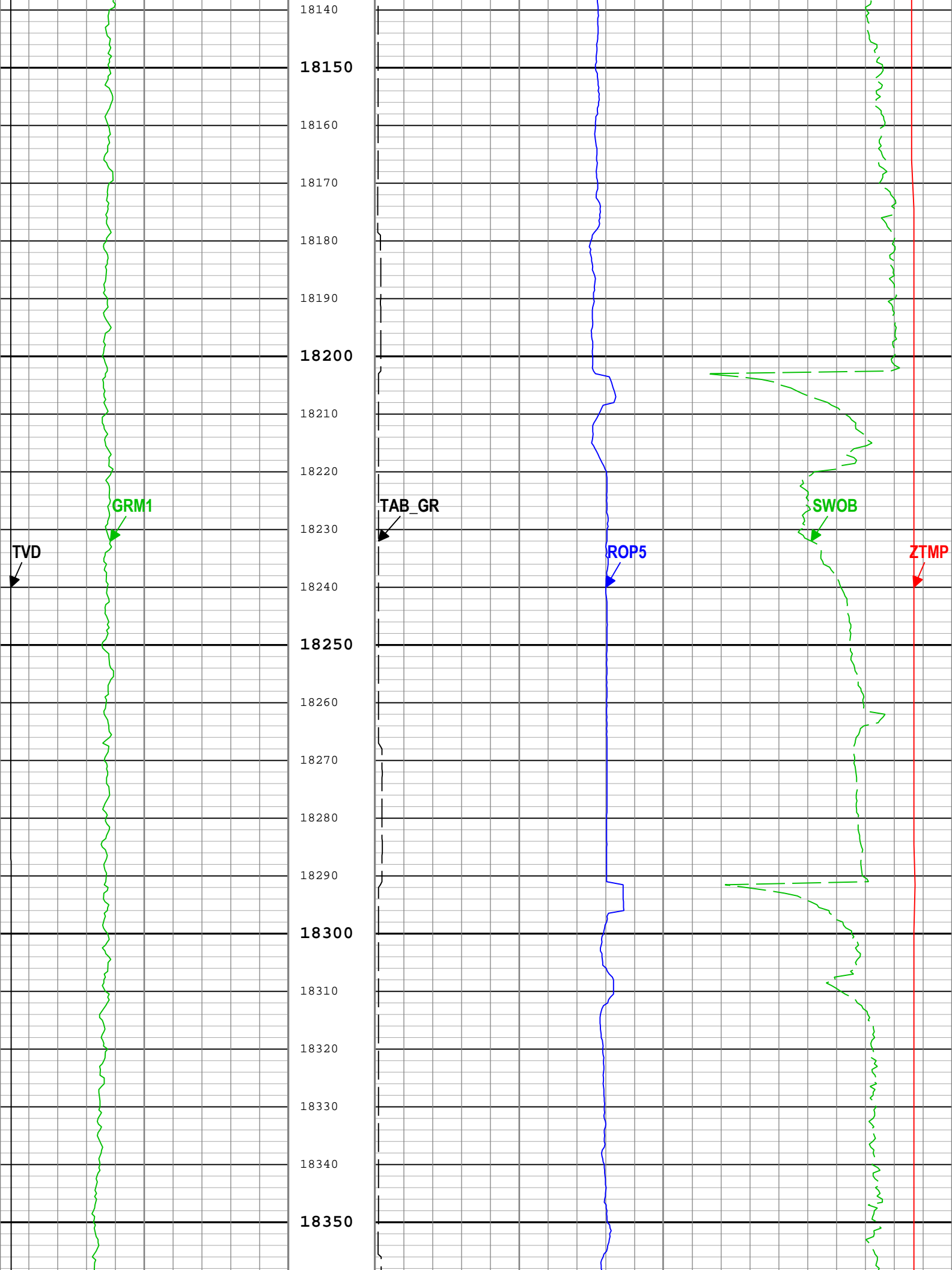


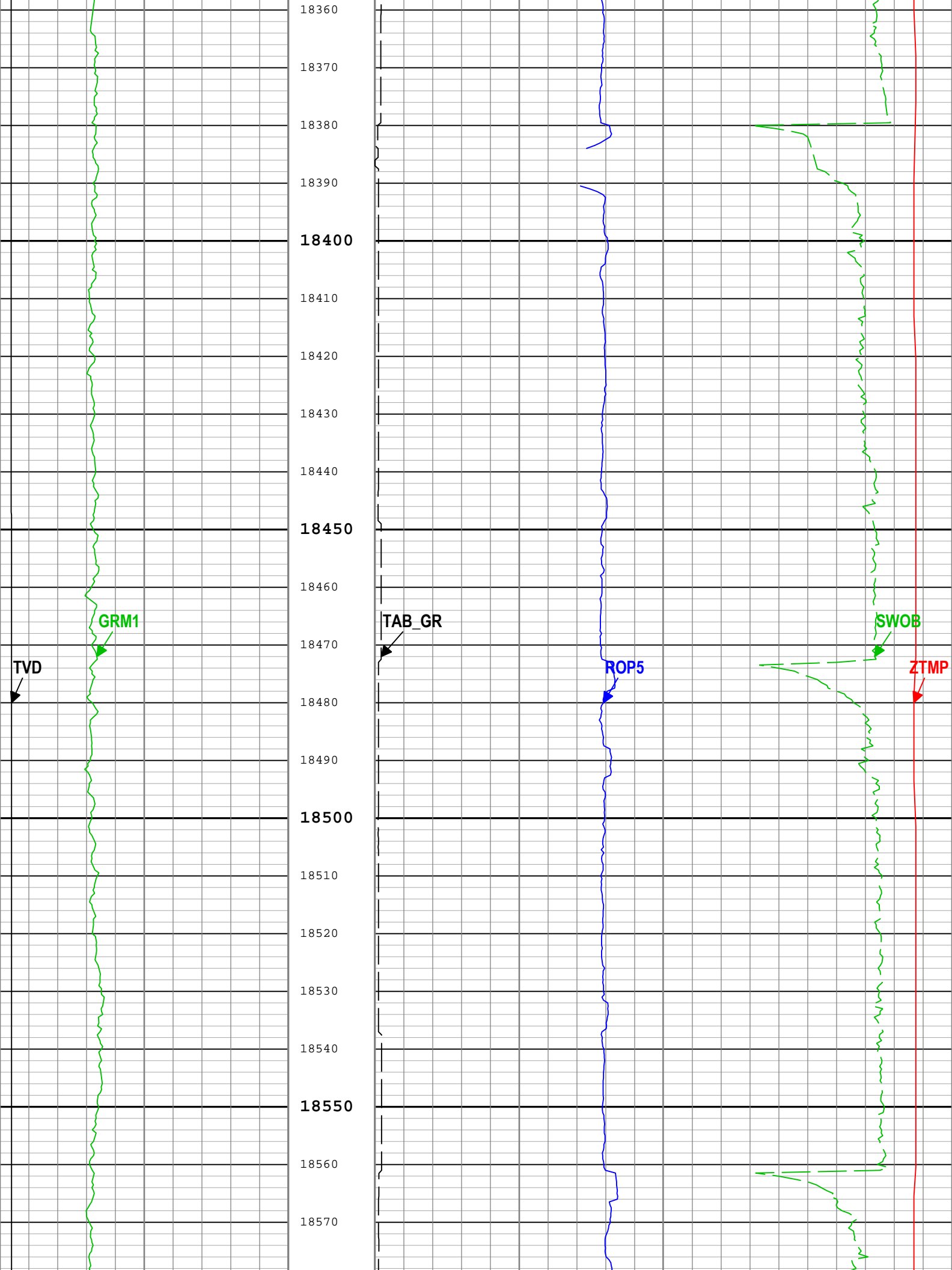




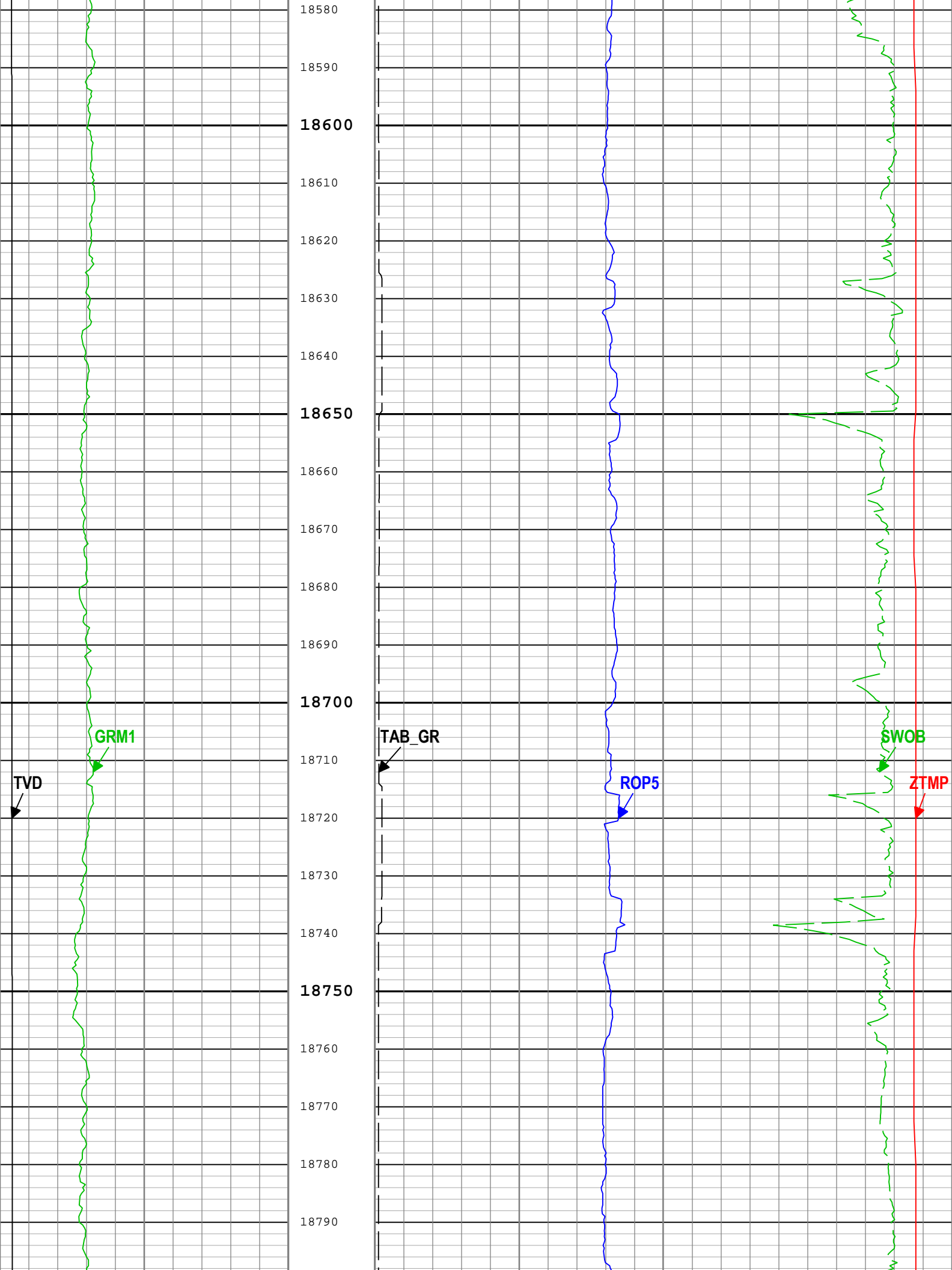


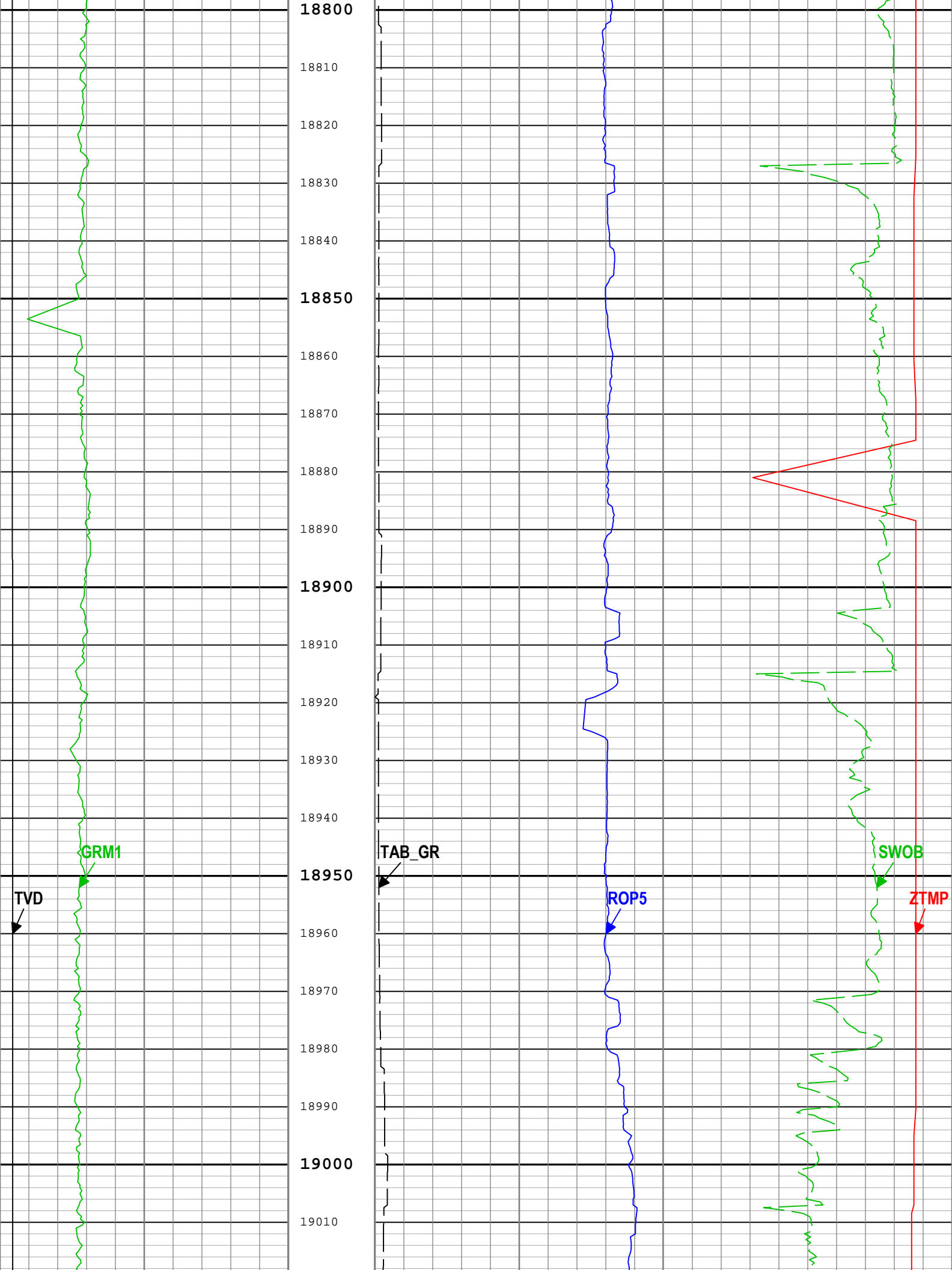


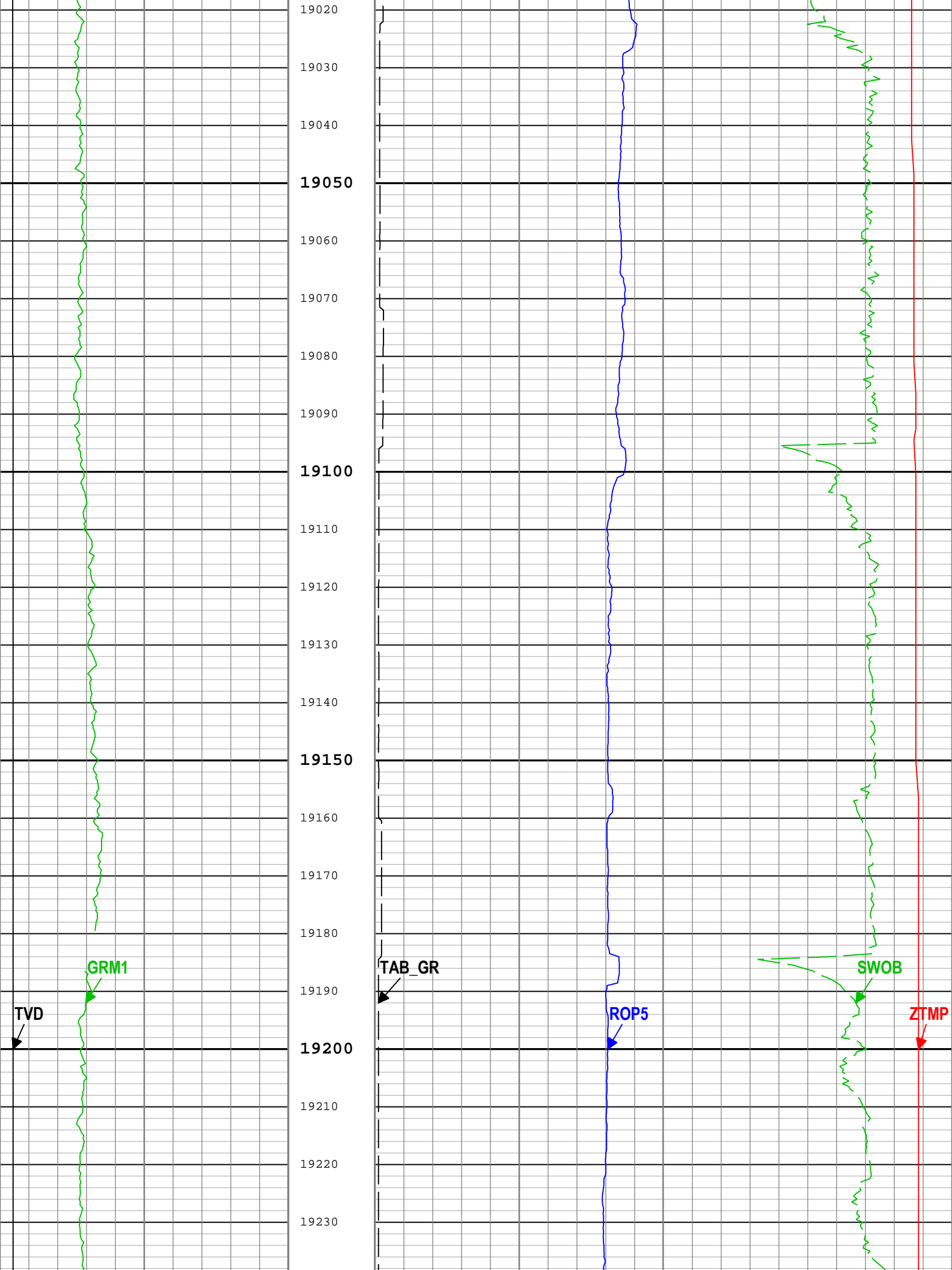


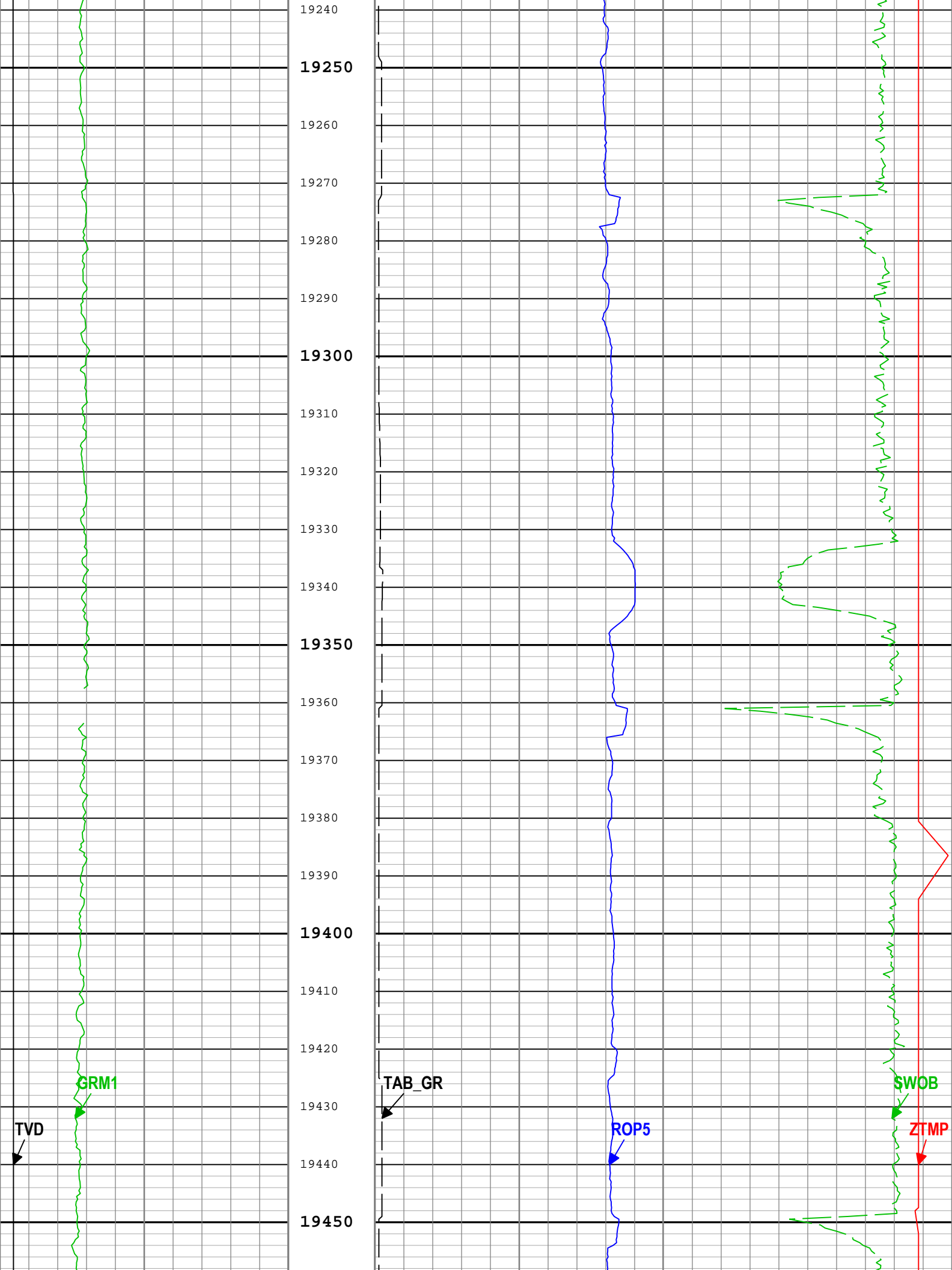


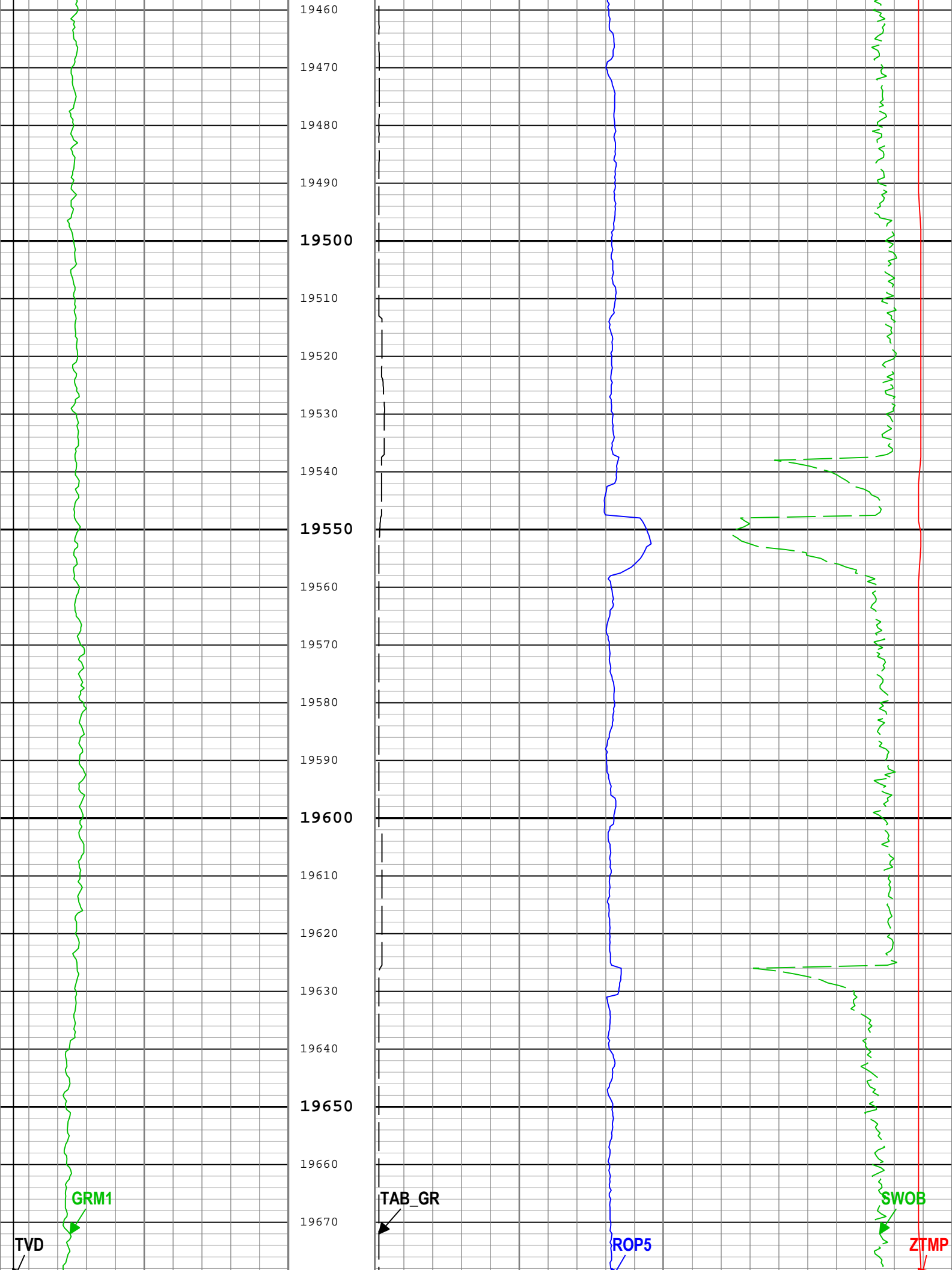


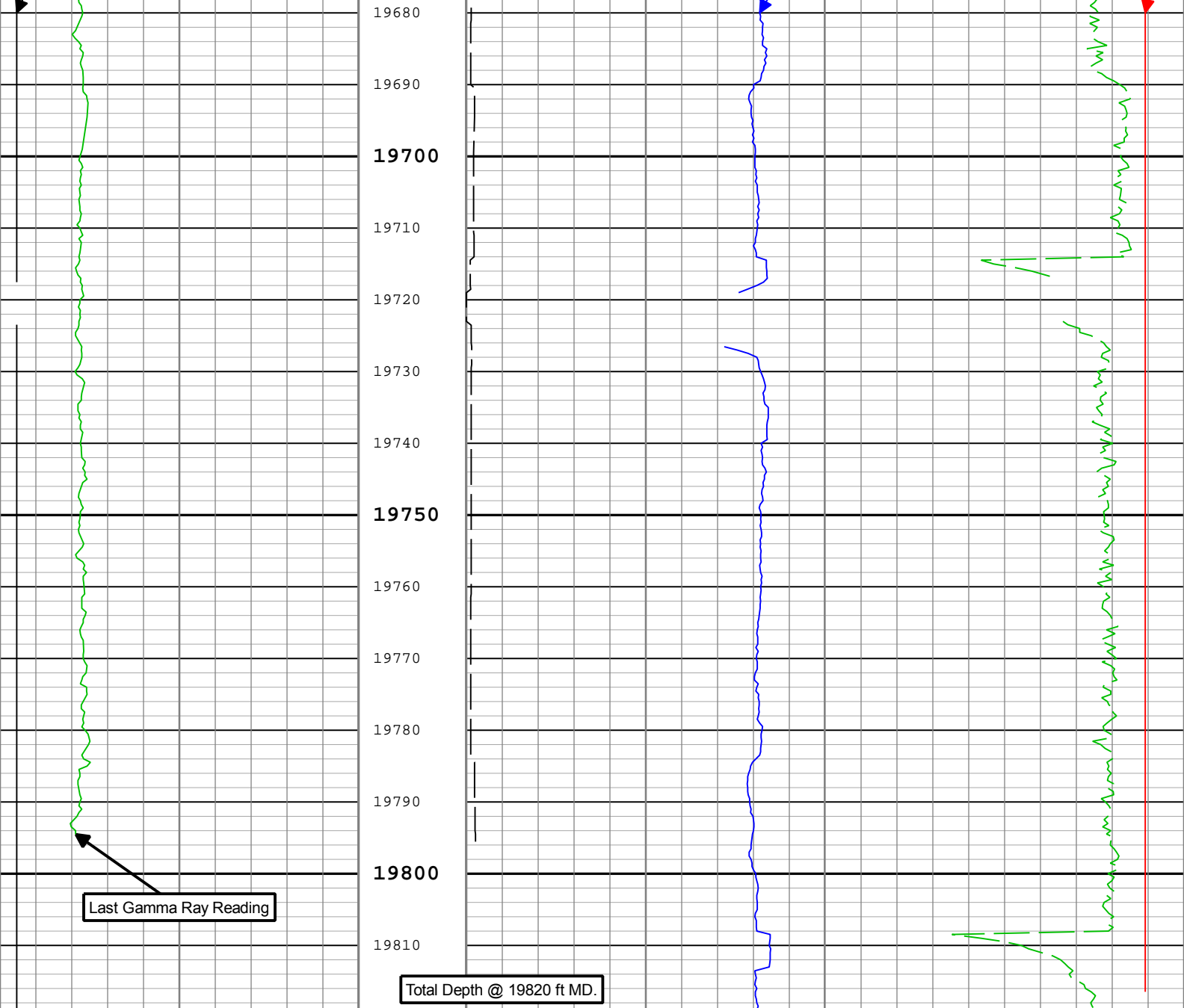












True Vertical Depth (TVD) RT		Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5) RT		Cartridge Temperature (ZTMP) Extreme[1] RT	
7500	ft	1500		0	degF 300
Gamma Ray (GRM1) Extreme[1] RT		Gamma Ray Time after Bit (TAB_GR) Extreme[1]		Surface Weight On Bit (SWOB) RT	
0	gAPI	300		0	1000 lbf 50
		0 h 10			

Description: Extreme Gamma Ray 1 RT    Format: Log ( Extreme Gamma Ray 1 RT )    Index Scale: 5 in per 100 ft    Index Unit: ft    Index Type: Measured  
Depth    Creation Date: 16-Oct-2019 12:21:22

Channel Processing Parameters				
Run001: Parameters				
Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	Depth Zoned	in
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	10.6	lbm/gal
Run001Depth Zoned Parameters				
Parameter	Value	Start ( ft )	Stop ( ft )	

BS	12.25	2237.5	2285	
BS	8.5	2285	19819.5	
All depth are actual.				
Tool Control Parameters				
Run001: Parameters				
Parameter	Description	Tool	Value	Unit

**Company:** Crestone Peak Resources Operating LLC

**Well:** Dream Weaver North 3A-21H-N268

**Field:** Wattenberg

**County:** Weld

**State:** Colorado

**Country:** United States of America



**Schlumberger**

XEM Gamma Ray  
5in/100ft Measured Depth  
Real Time, Composite Log