

Company: SRC Energy Inc

Well: Bost Farm 33N-11A-L

Field: Wattenberg

County: Weld

State: Colorado

Country: United States of America

Section: 07 APIN: 05-123-50253

Township: 05N Rig Name: Precision 462

Range: 66W Rig Type: Land Rig, Top Drive

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

FL1: Northing: 1394423.538 ftUS

FL2: Easting: 3187076.618 ftUS

Log Measured From: - Drill Floor: 4893.00 ft

Ground Level: 4873.00 ft

Permanent Datum: - Mean Sea Level

Acquisition Dates: 07-Oct-2019 -- 11-Oct-2019

Log Interval: 1804.00(ft) MD -- 17874.00(ft) MD

Index Types: Measured Depth Directional Drilling

Index Scales: 1:240 5" / 100' Continuous D&I

Depth Source: Driller's Depth Rotary Steerable System

Depth Sensor: 3rd Party Depth

Print Type: Final

Spud Date: 07-OCT-2019

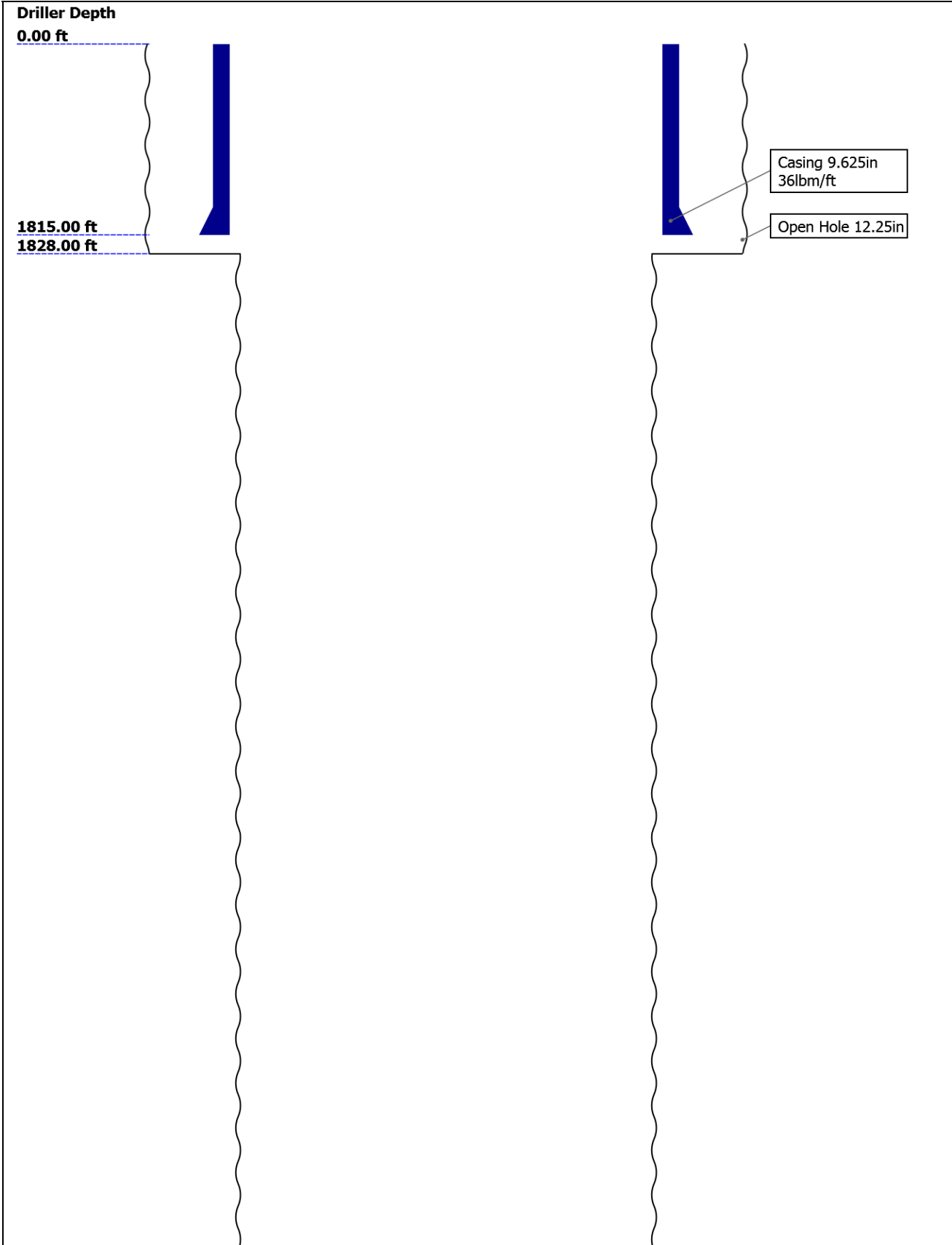
Disclaimer

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.

Contents

1. Header
2. Disclaimer
3. Contents
4. Well Sketch
5. Borehole Size/Casing/Tubing Record
6. Operational Run Summary
7. Borehole Fluids
8. Remarks and Equipment Summary
9. Well Composite
 - 9.1 Integration Summary
 - 9.2 Software Version
 - 9.3 Composite Summary
 - 9.4 Log (Extreme Gamma Ray 1 RT)
 - 9.5 Parameter Listing
10. Calibration Report
11. Tail

Well Sketch





Borehole Size/Casing Record						
Bit						
Bit Size (in)	12.25	8.5				
Top Driller (ft)	0	1828				
Bottom Driller (ft)	1828	17874				
Casing						
Size (in)	9.625					
Weight (lbm/ft)	36					
Inner Diameter (in)	8.921					
Grade	J55					
Top Driller (ft)	0					
Bottom Driller (ft)	1815					

Operational Run Summary						
Parameter (unit)	Run001	Run002				
Date Log Started	07-Oct-2019	09-Oct-2019				
Time Log Started	21:49:16	00:18:42				
Date Log Finished	09-Oct-2019	11-Oct-2019				
Time Log Finished	00:18:37	20:58:13				
Bit Size (in)	8.500	8.500				
Bit Start Depth (ft)	1828.00	6081.00				
Bit Stop Depth (ft)	6081.00	17874.00				
Top Log Interval (ft)	1804.00	6057.00				
Bottom Log Interval (ft)	6057.00	17850.00				
Max Hole Deviation (deg)	14.77	93.73				
Azimuth of Max Deviation (deg)	207.62	268.54				
Logging Unit Number	Company Provided	Company Provided				
Logging Unit Location	Zone 2	Zone 2				
Recorded By	K.Behla	K.Behla				
Witnessed By	D.Hunalp	A.Herskind				
Service Order Number	19CCO1063	19CCO1063				

Borehole Fluids						
-----------------	--	--	--	--	--	--

Parameter(unit)	Run001	Run002				
Fluid Type	Oil	Oil				
Fluid Name	Diesel	Diesel				
Max Recorded Temperatures (degF)	165	265				
Source of Sample	Active Tank	Active Tank				
Salinity (ppm)	31216	31619				
Density (lbm/gal)	9.6	10.2				
Funnel Viscosity (s)	64	67				
Fluid Loss (cm3)	7691	1464				
PH						
Source RMF	Pressed	Pressed				
RMC	Pressed	Pressed				
RM @ Meas Temp (ohm.m@degF)	N/A	N/A				
RMF @ Meas Temp (ohm.m@degF)	N/A	N/A				
RMC @ Meas Temp (ohm.m@degF)	N/A	N/A				
RM @ BHT (ohm.m@degF)	N/A	N/A				
RMF @ BHT (ohm.m@degF)	N/A	N/A				
RMC @ BHT (ohm.m@degF)	N/A	N/A				
Electricity Stability (V)	1345	1320				
Oil/Water	84/16 (5.41)	87/13 (6.81)				
Total Solid (%)	10.5	14				
High Gravity Solids (%)	6.06	7.09				

Remarks and Equipment Summary

All data presented is from realtime data and acquired while drilling.	
Depth is referenced to driller's depth.	
Gamma Ray is environmentally corrected for mud weight, bit size, and collar thickness.	
Barite was present in the mud.	
Run001: Remarks	Run002: Remarks
Run Objective: Drill curve and lateral to TD.	Run Objective: Drill curve and lateral to TD.
Reason for POOH: Well Total Depth.	Reason for POOH: Well Total Depth.
Drill Interval: 1828 ft MD to 6081 ft MD	Drill Interval: 6081 ft MD to 17874 ft MD
Logged Interval: 1804 ft MD to 6057 ft MD	Logged Interval: 6057 ft MD to 17950 ft MD
MWD Personnel: K. Behla K. Winterberger	MWD Personnel: K. Behla K. Winterberger

Run001: Toolstring				Run002: Toolstring			
Equip name	Length	MP name	Offset	Equip name	Length	MP name	Offset
Filtr Sub: 6 3/4":SD 118250	120.69	Diffuser Sub		Filtr Sub: 6 3/4":SD 118250	120.68	Diffuser Sub	
Motor: 6 3/4":7082	116.75	Hunting		Motor: 6 3/4":7082	116.75	Hunting	

Flex DC: 6 3/4":SD 77.47
56406

Archer Flex Pony

XEM650:XLE0202 42.24
GAP650:DOBA2141
XEM650DC:XLE0202
DPG:DDRP049
XHOP:XHOP1032
XTX:HVTX0992
DYN:SOCD1314
BAT:DOBA2472
XGM:XGM0807
DNI:SOCD1314

1

INT PRES
ANN PRES
TEMP

39.89
39.74
39.74

GR

24.74

D&T

20.15

Flex DC: 6 3/4":SD 77.47
56406

Archer Flex Pony

XEM650:XLE0202 42.24
GAP650:DOBA2141
XEM650DC:XLE0202
DPG:DDRP049
XHOP:XHOP1032
XTX:HVTX0992
DYN:SOCD1314
BAT:DOBA2472
XGM:XGM0807
DNI:SOCD1314

1

INT PRES
ANN PRES
TEMP

39.89
39.74
39.74

GR

24.8

D&T

20.21

PDCOPIBANA_675: 7.54

JP0976

PD675CC:JP0976

Gamma Set

PDCU

Impeller Set

PDCOPIBANA675BU:J

P0976

Azimuth

8.1

D&I

5.9

Anchor Bolt

2.7

Bit: 8 1/2":JP7461 0.67

8.5in Smith YZ519

TOOL_ZERO

Lengths are in ft

Maximum Outer Diameter = 8.500 in

Line: Sensor Location, Value: Gating Offset

All measurements are relative to TOOL_ZERO

PDCOPIBANA_675: 7.54

JP0976

PD675CC:JP0976

Gamma Set

PDCU

Impeller Set

PDCOPIBANA675BU:J

P0976

Azimuth

8.1

D&I

5.9

Anchor Bolt

2.7

Bit: 8 1/2":JP7459 0.67

8.5in Smith YZ519

TOOL_ZERO

Lengths are in ft

Maximum Outer Diameter = 8.500 in

Line: Sensor Location, Value: Gating Offset

All measurements are relative to TOOL_ZERO

Well Composite

Software Version

Acquisition System

Maxwell 2018 SP2

Version

8.2.104493.3100

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run001	Drilling	Down	1799.17 ft	6084.08 ft	07-Oct-2019 9:49:16 PM	09-Oct-2019 12:18:37 AM	No
Run002	Drilling	Down	6083.17 ft	17873.92 ft	09-Oct-2019 12:18:42 AM	11-Oct-2019 8:58:13 PM	No

All depths are referenced to toolstring zero

Log

Company:SRC Energy Inc

Well:Bost Farm 33N-11A-L

Well Composite:S163

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
11-Oct-2019 20:59:28

GRM1 - Gamma Ray Extreme[1] RT

Rate of penetration averaged over the last 5 ft
(1.5 m) (ROP5) RT

1000

ft/h

0

Gamma Ray Time after Bit (TAB_GR)
Extreme[1]

0

h

1

Cartridge Temperature (ZTMP) Extreme[1] RT

0

degF

300

Surface Weight On Bit (SWOB) RT

0

1000 lbf

50

Gamma Ray (GRM1) Extreme[1] RT

0

gAPI

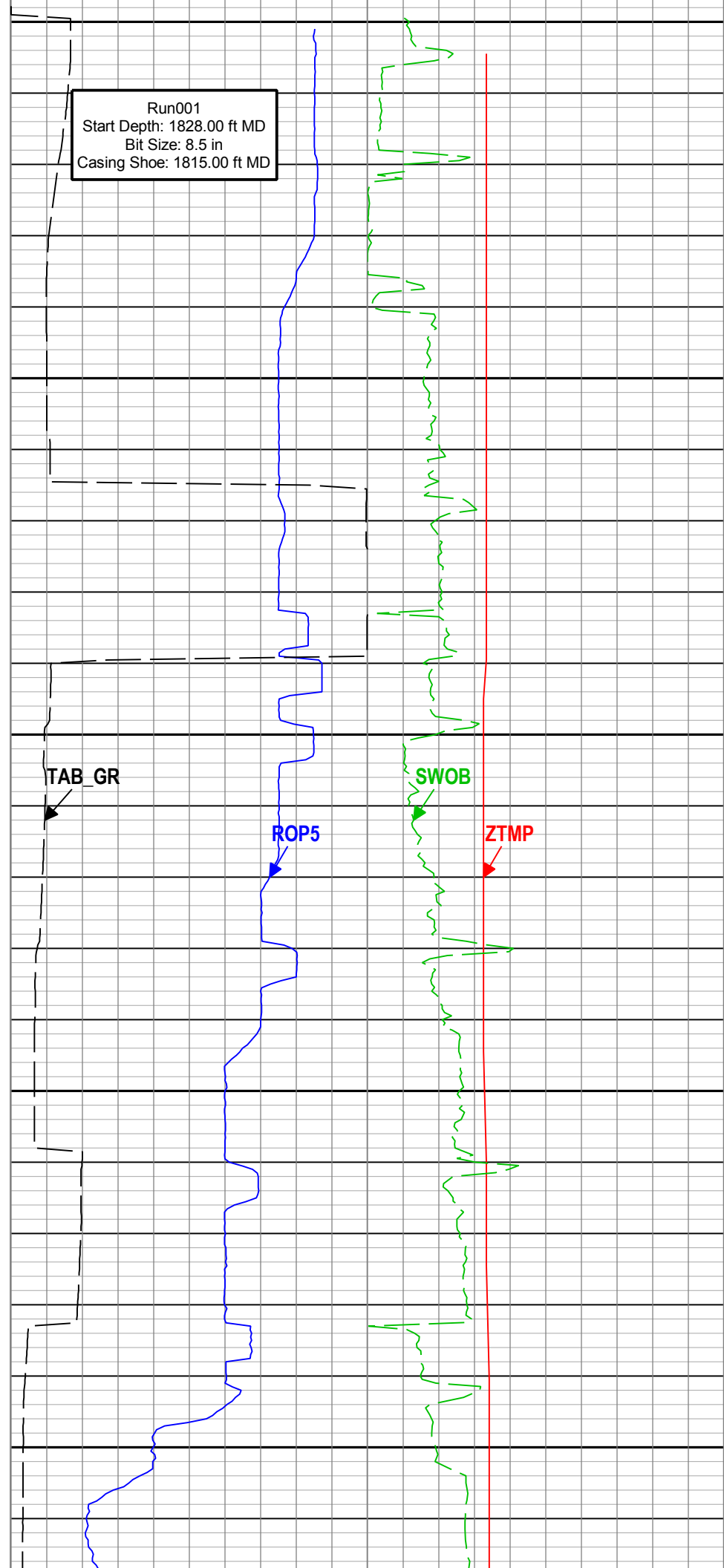
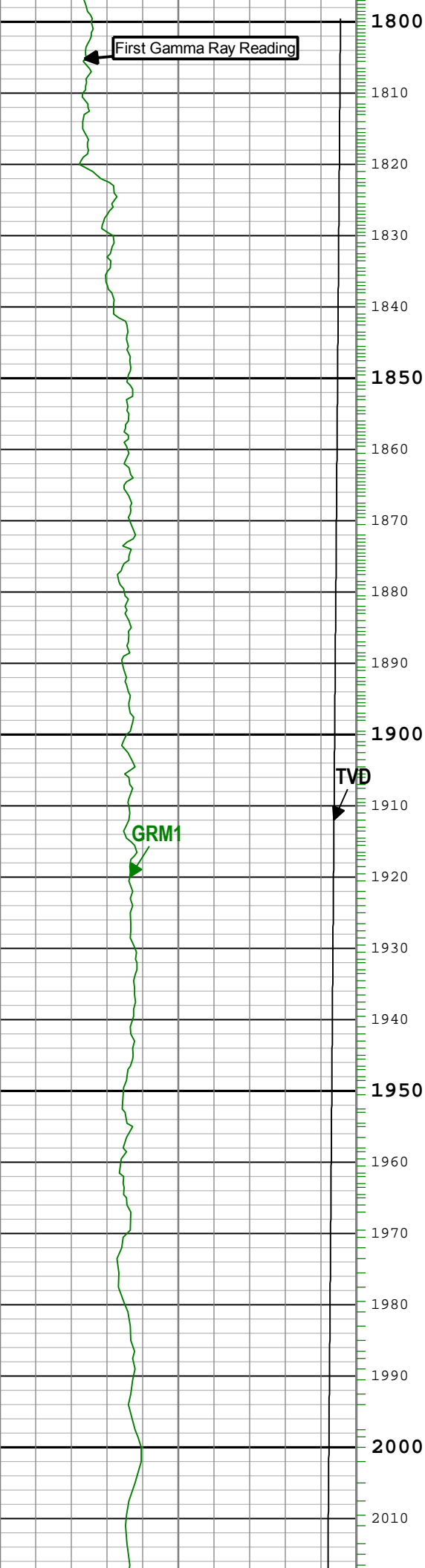
300

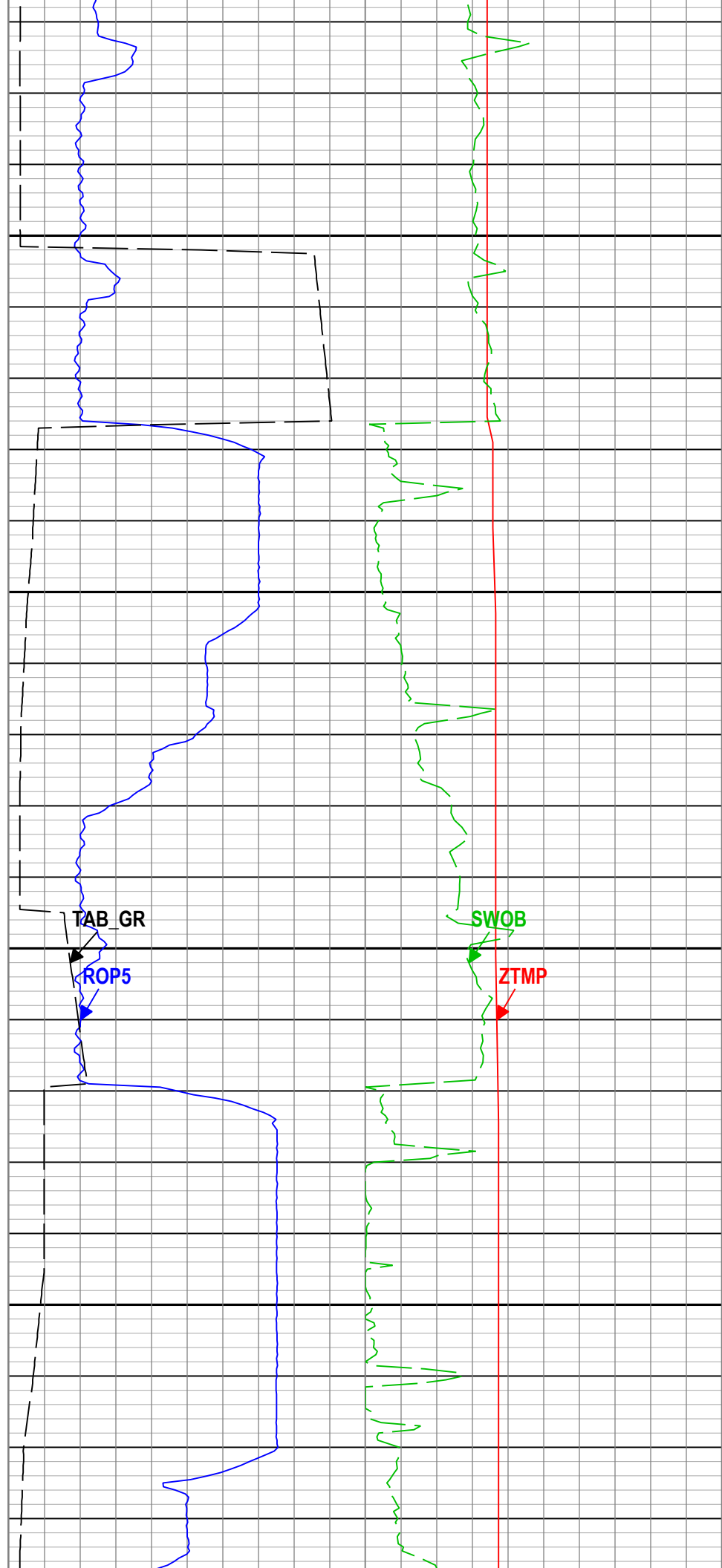
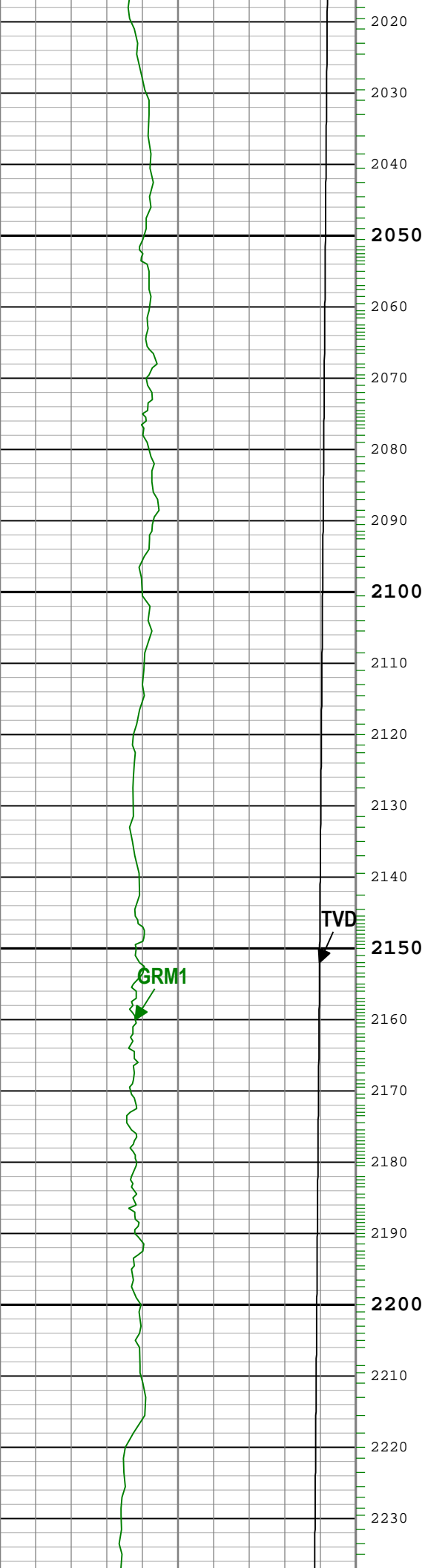
True Vertical Depth (TVD) RT

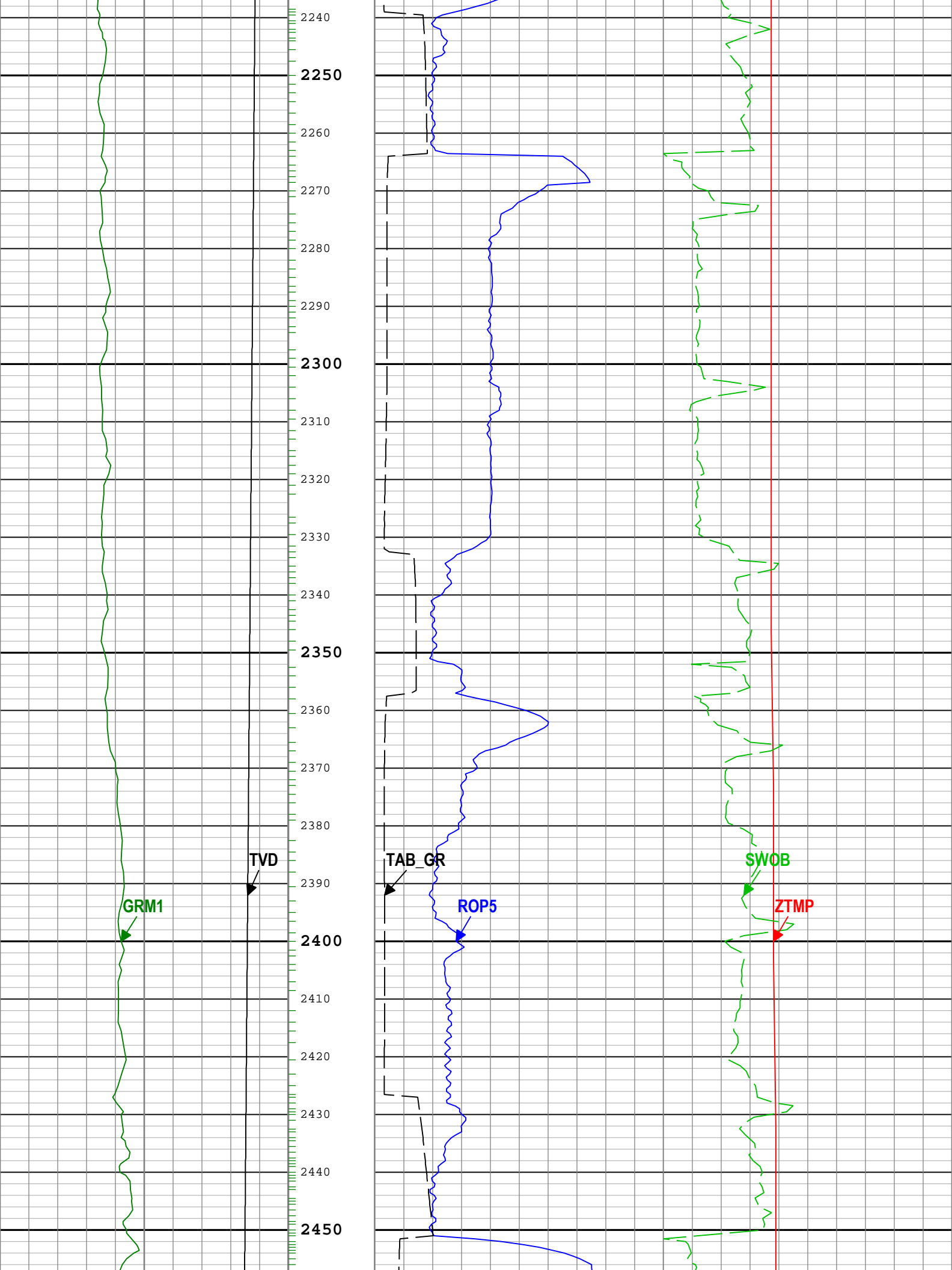
7500

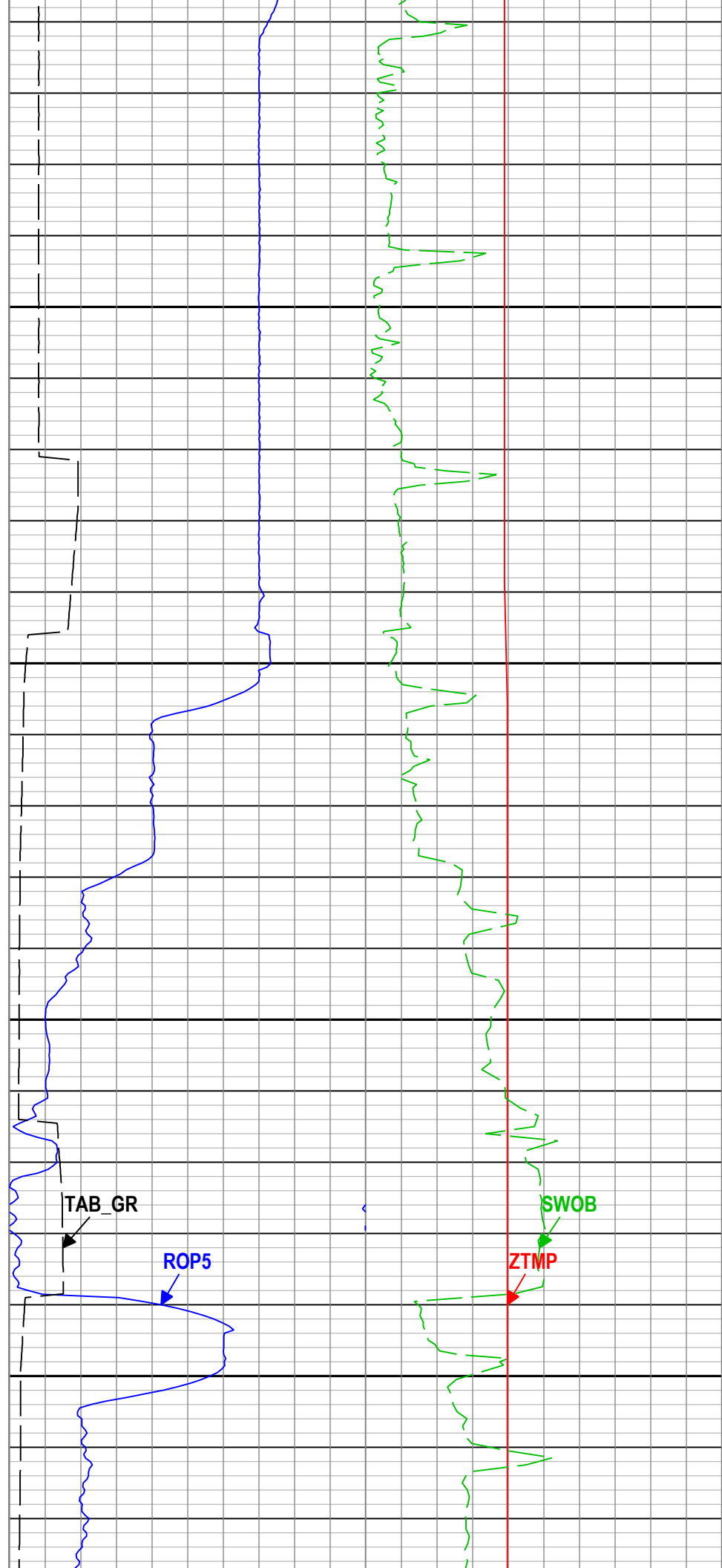
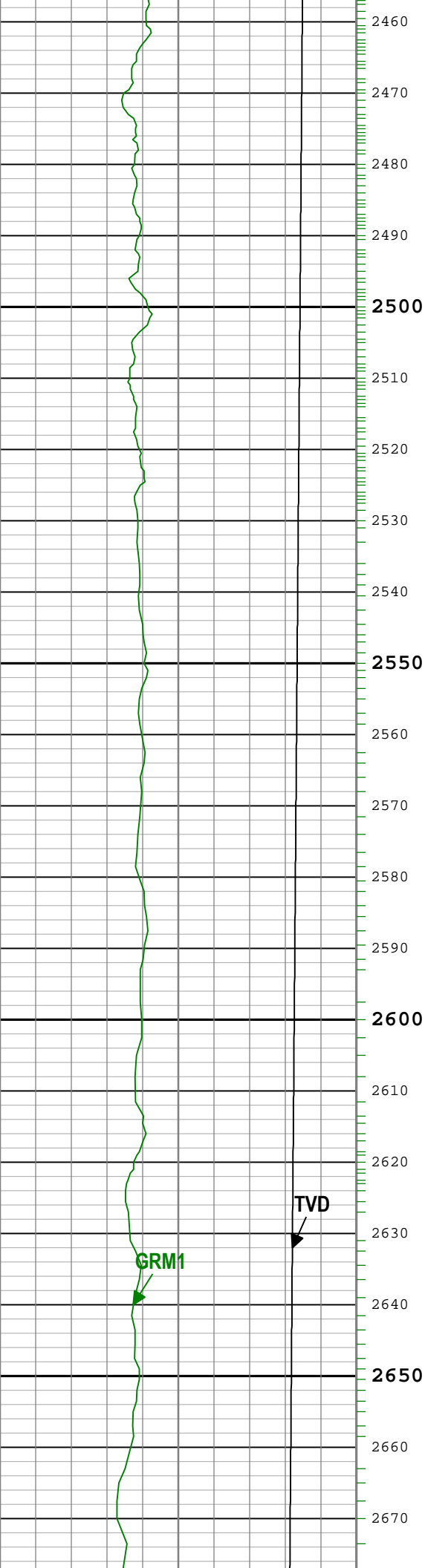
ft

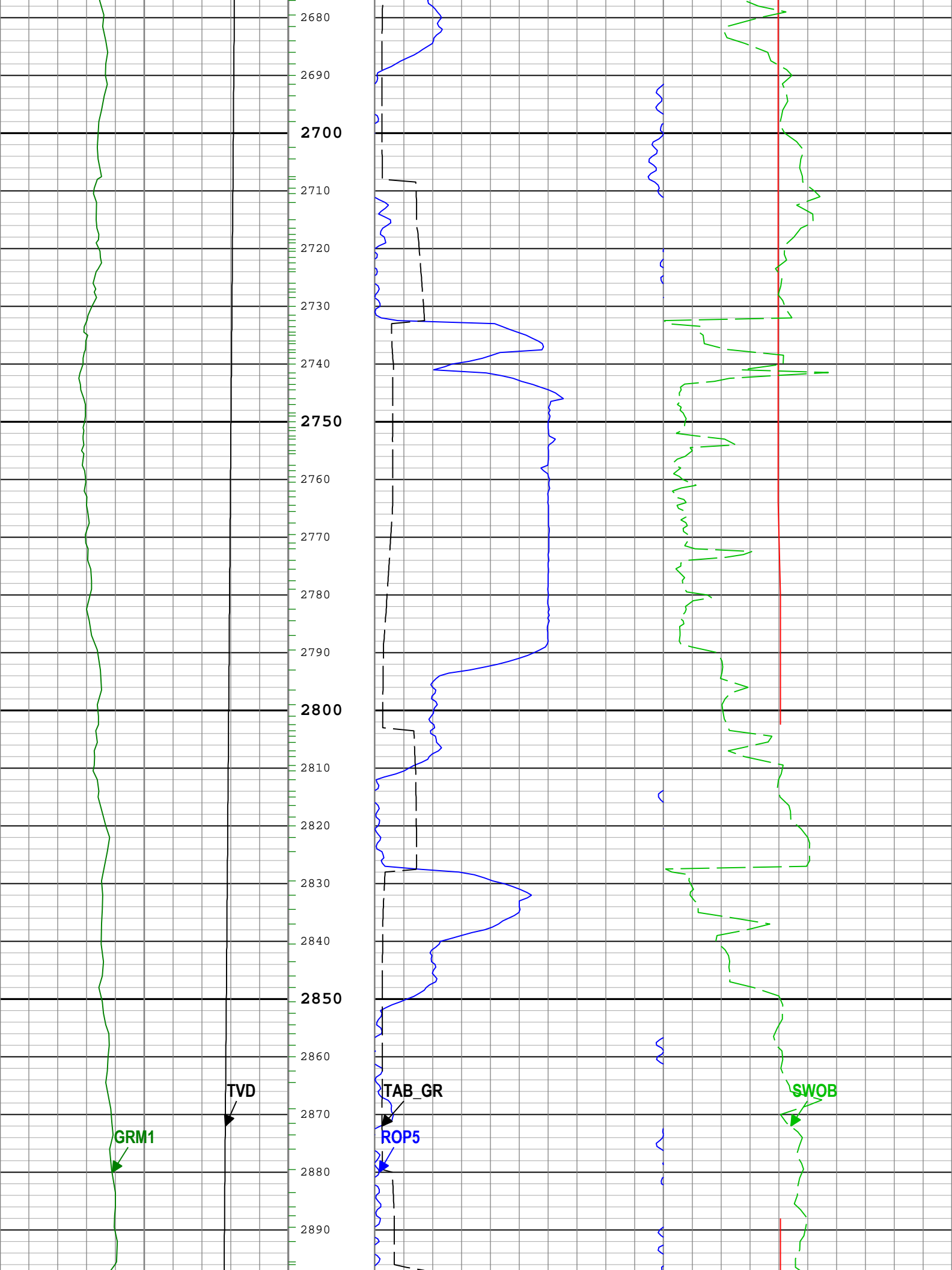
1500

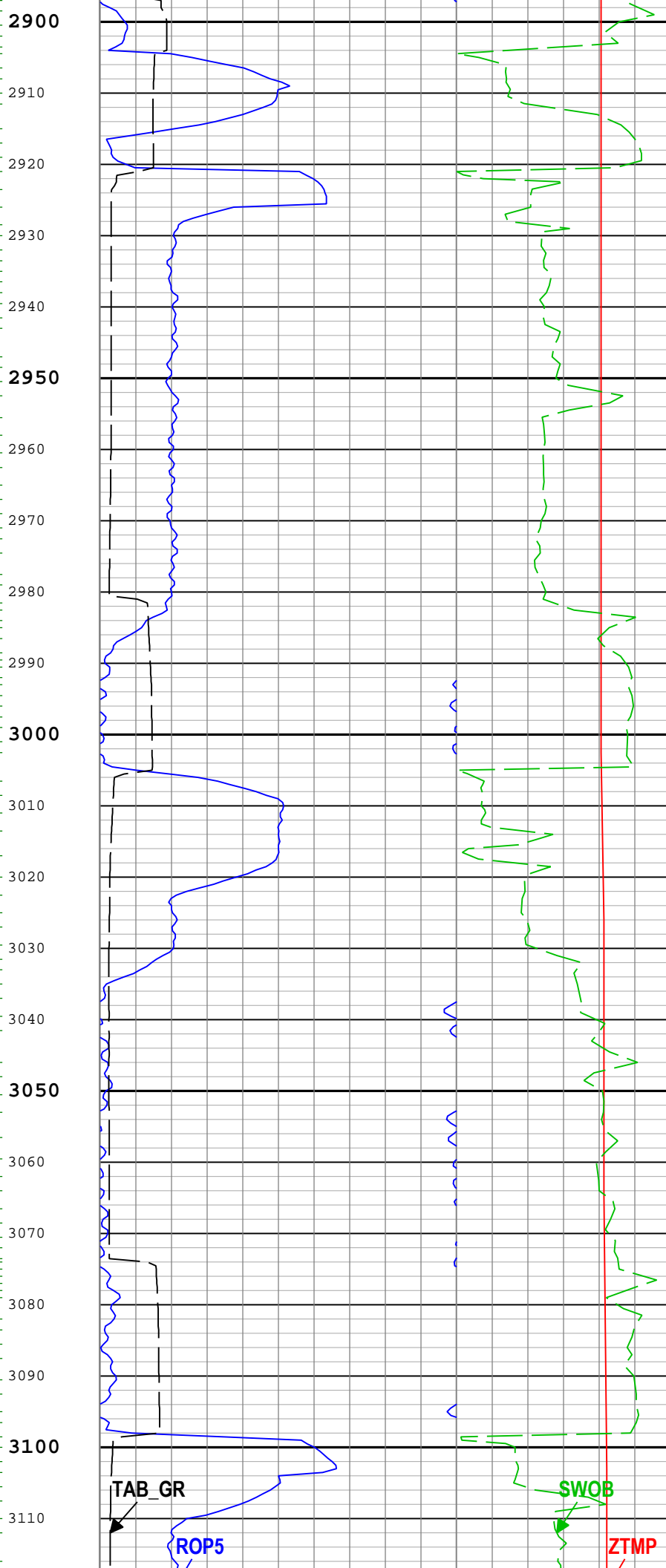
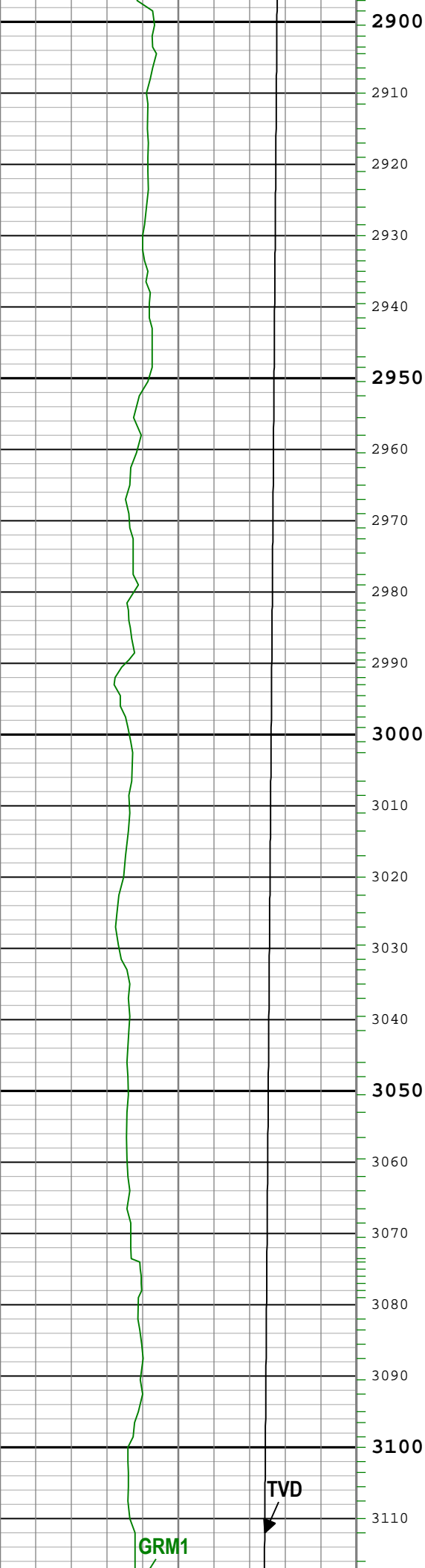


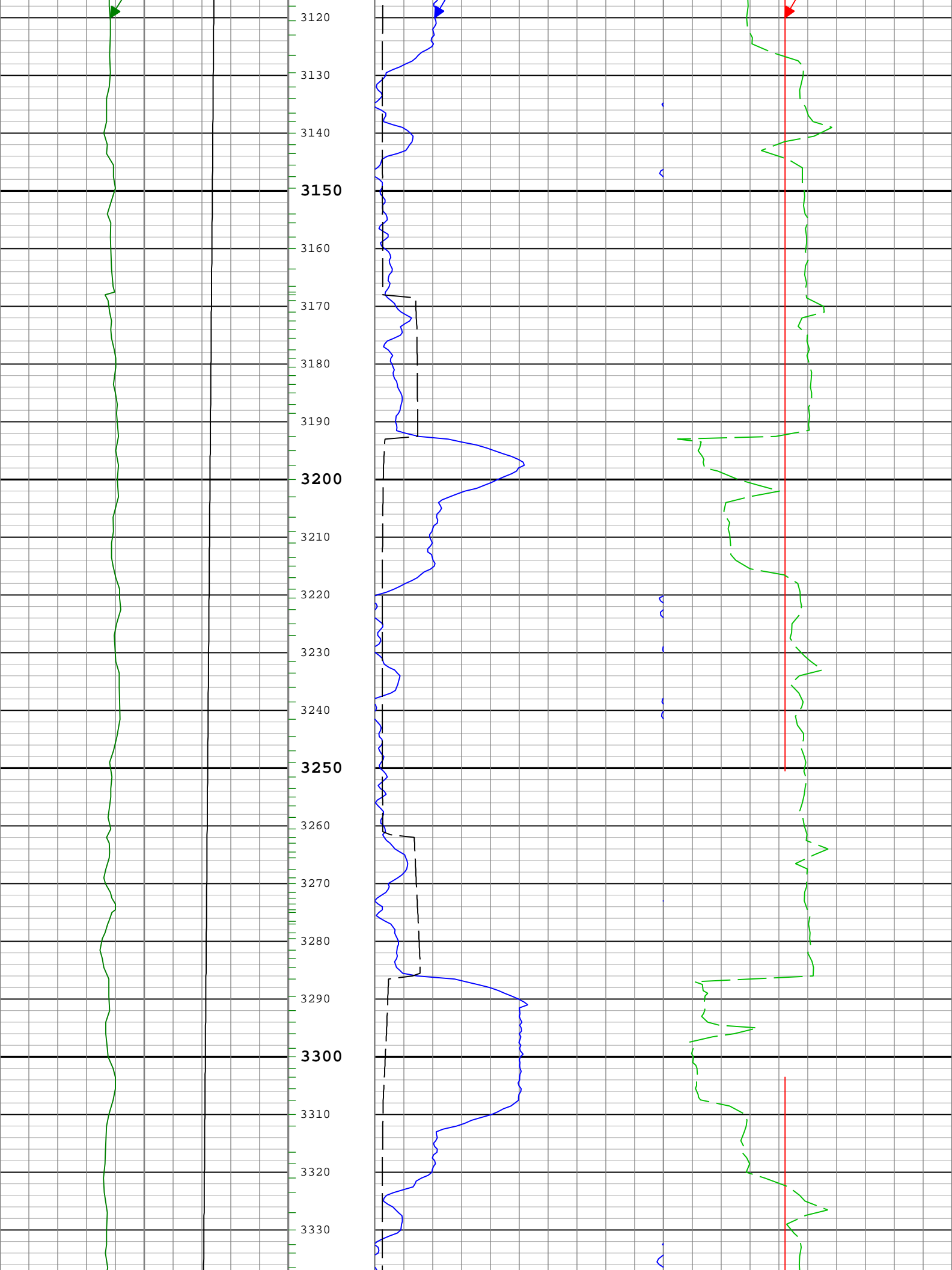


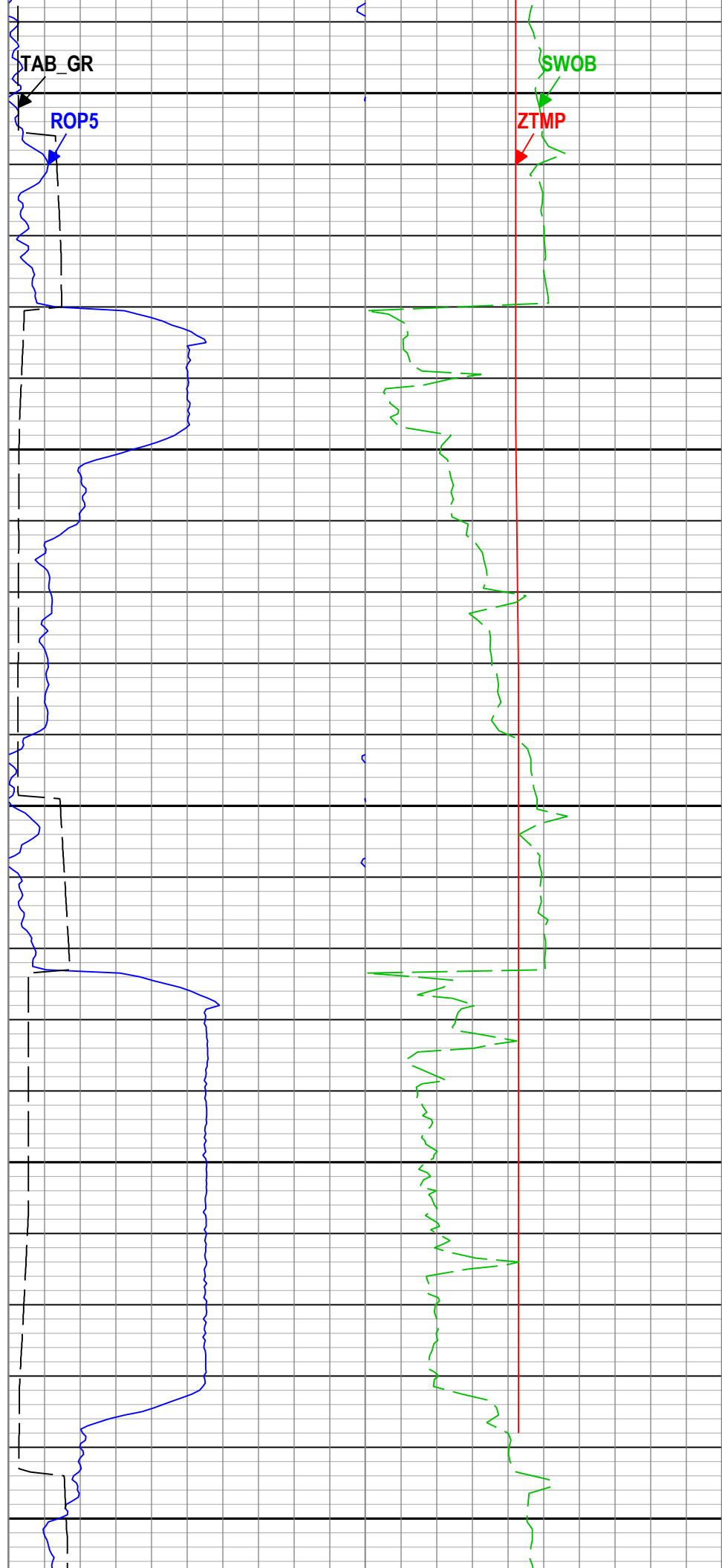
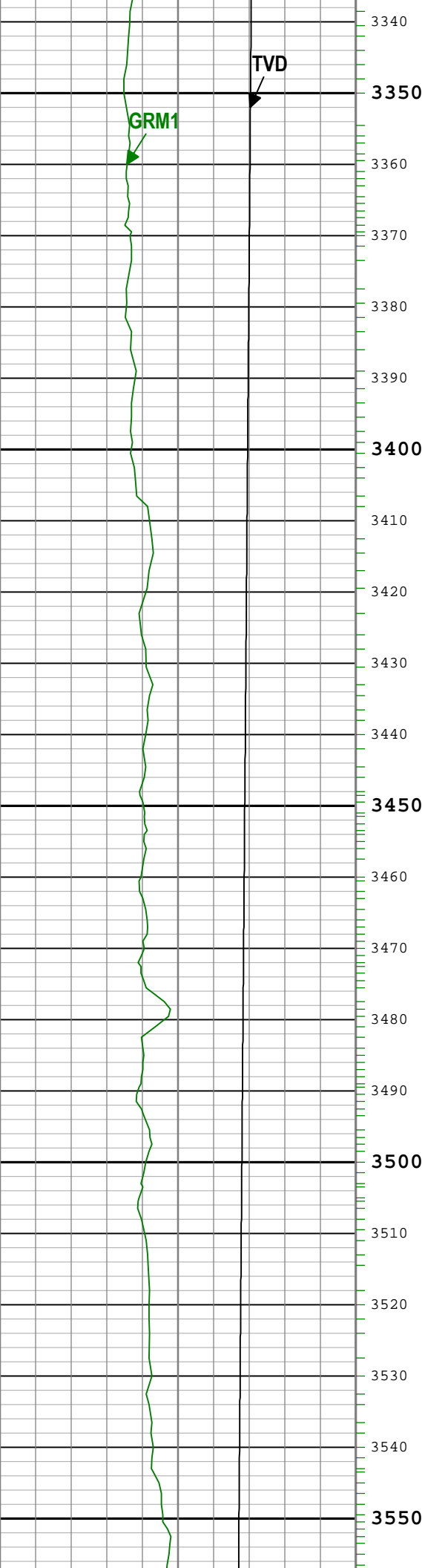


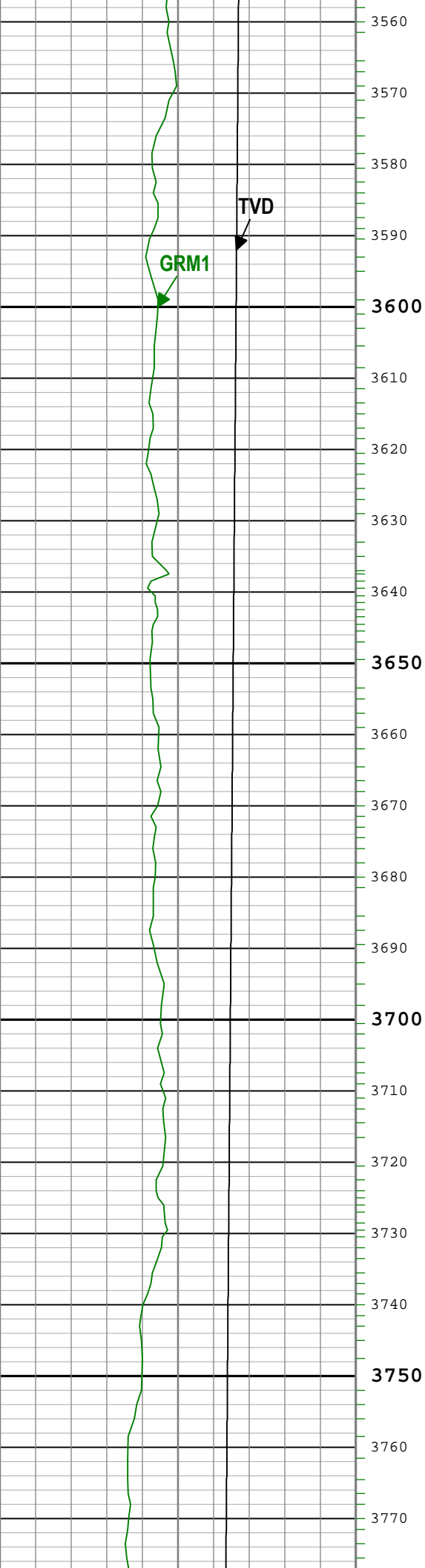


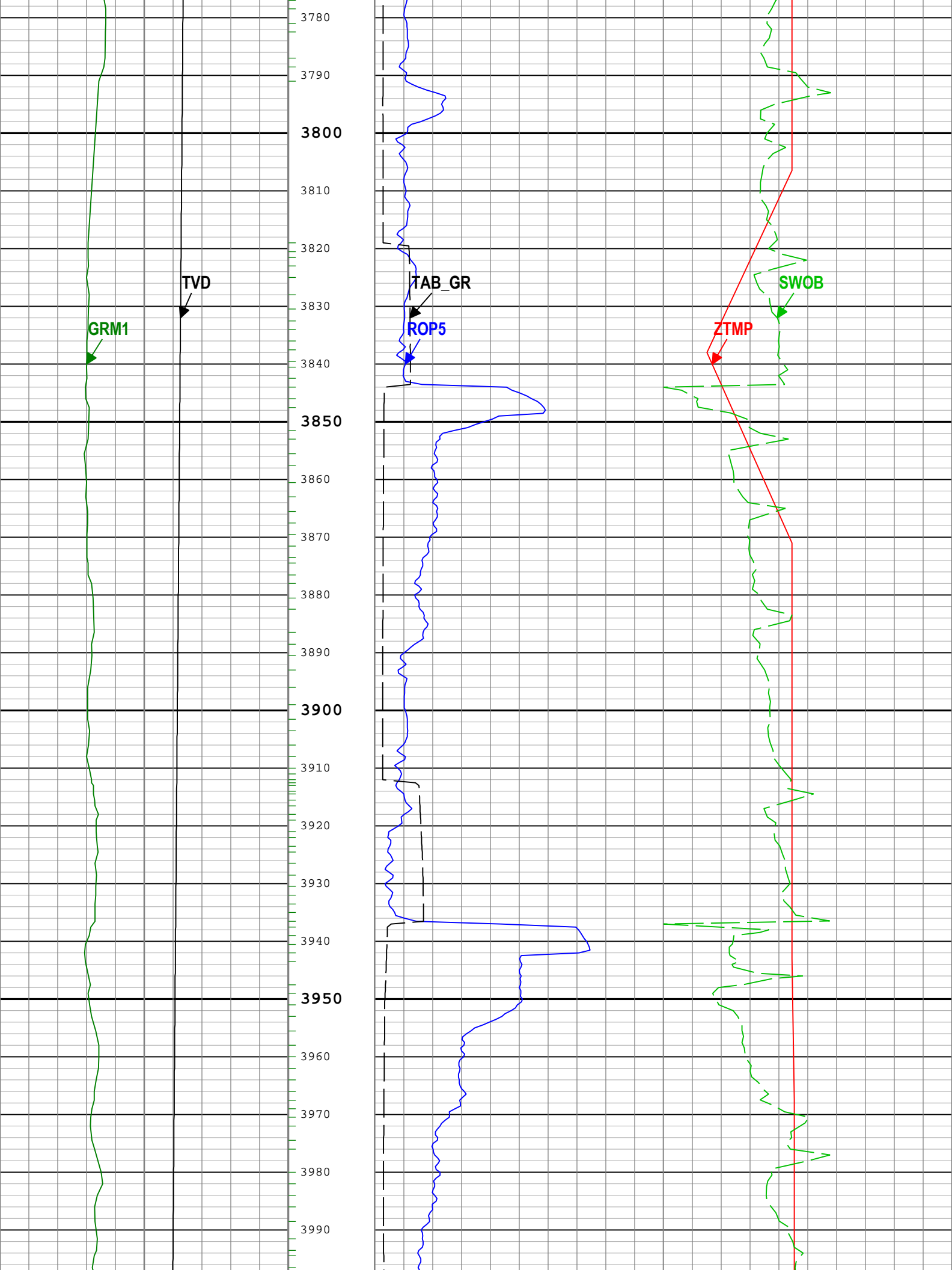


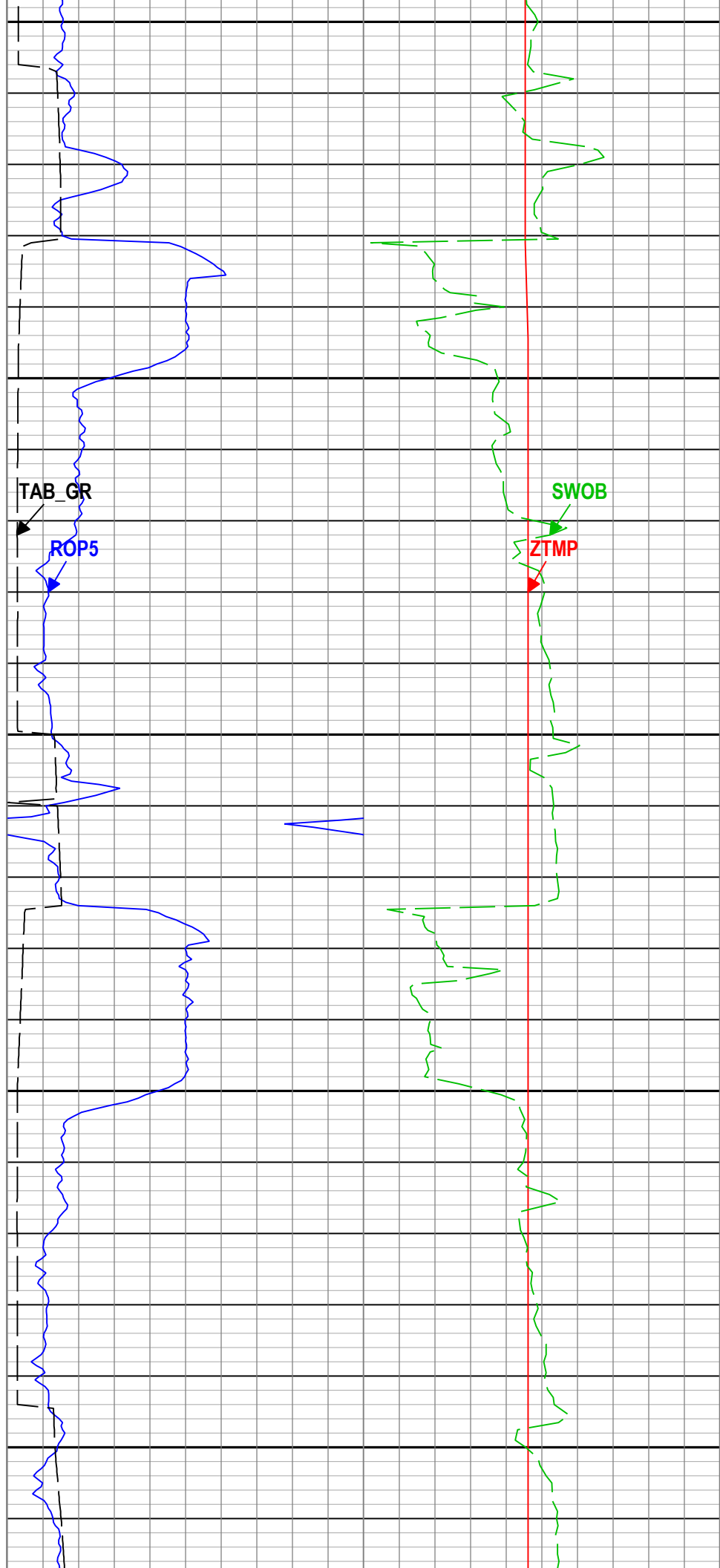
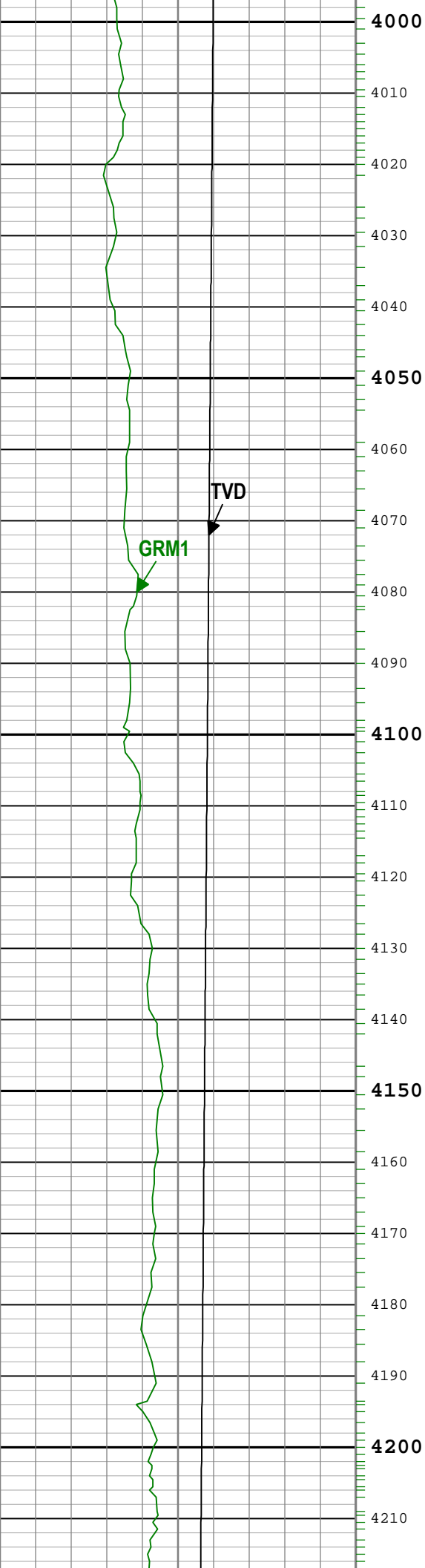


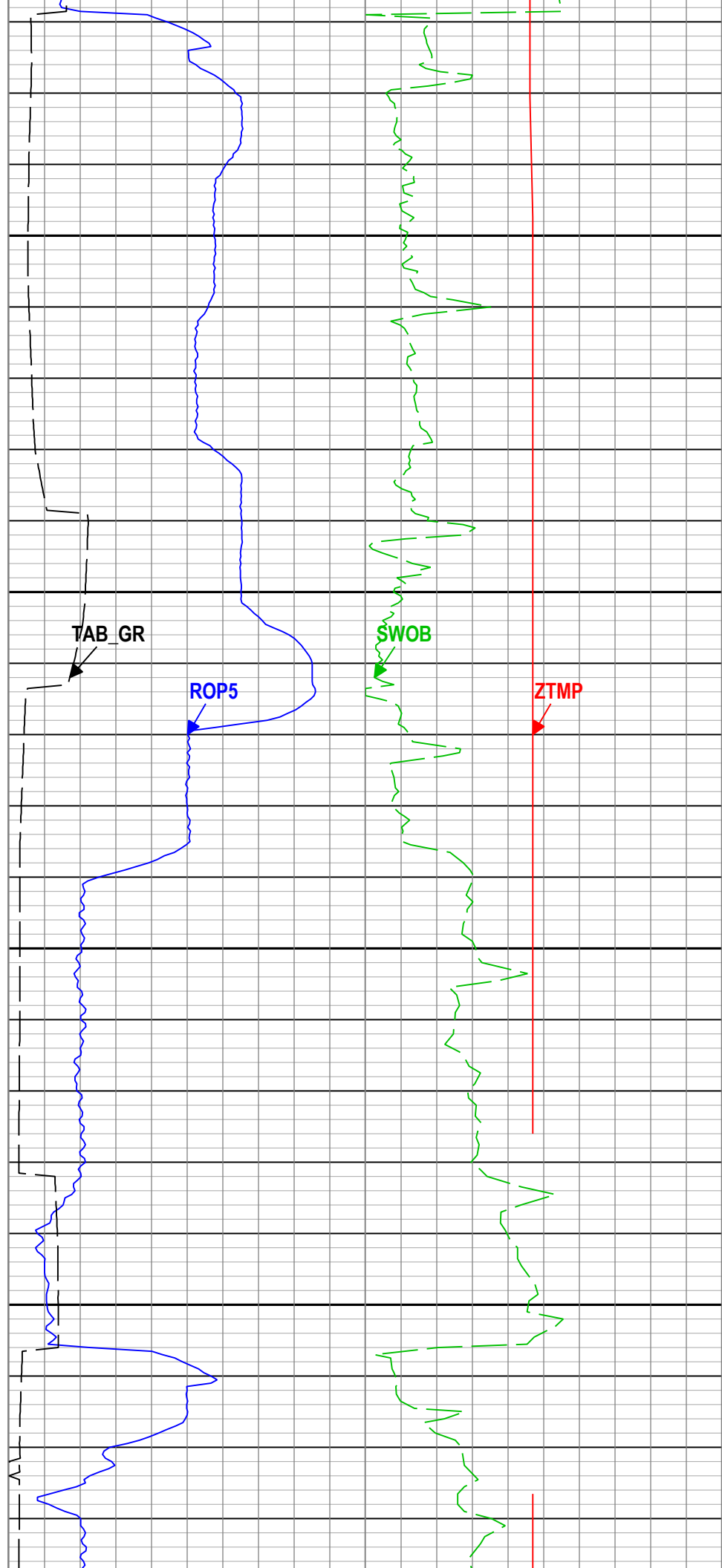
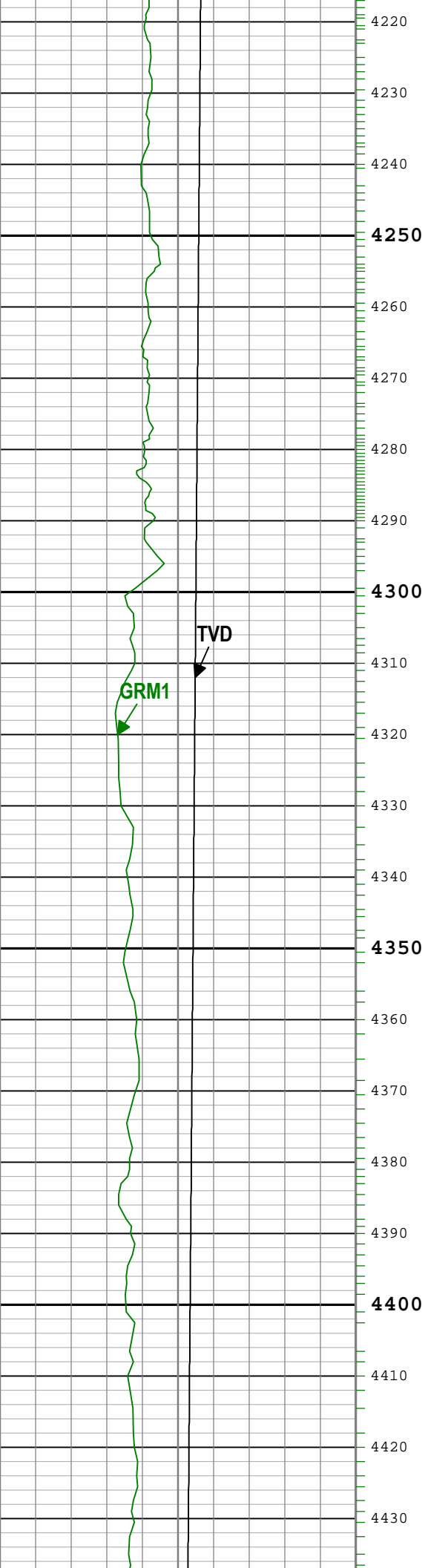


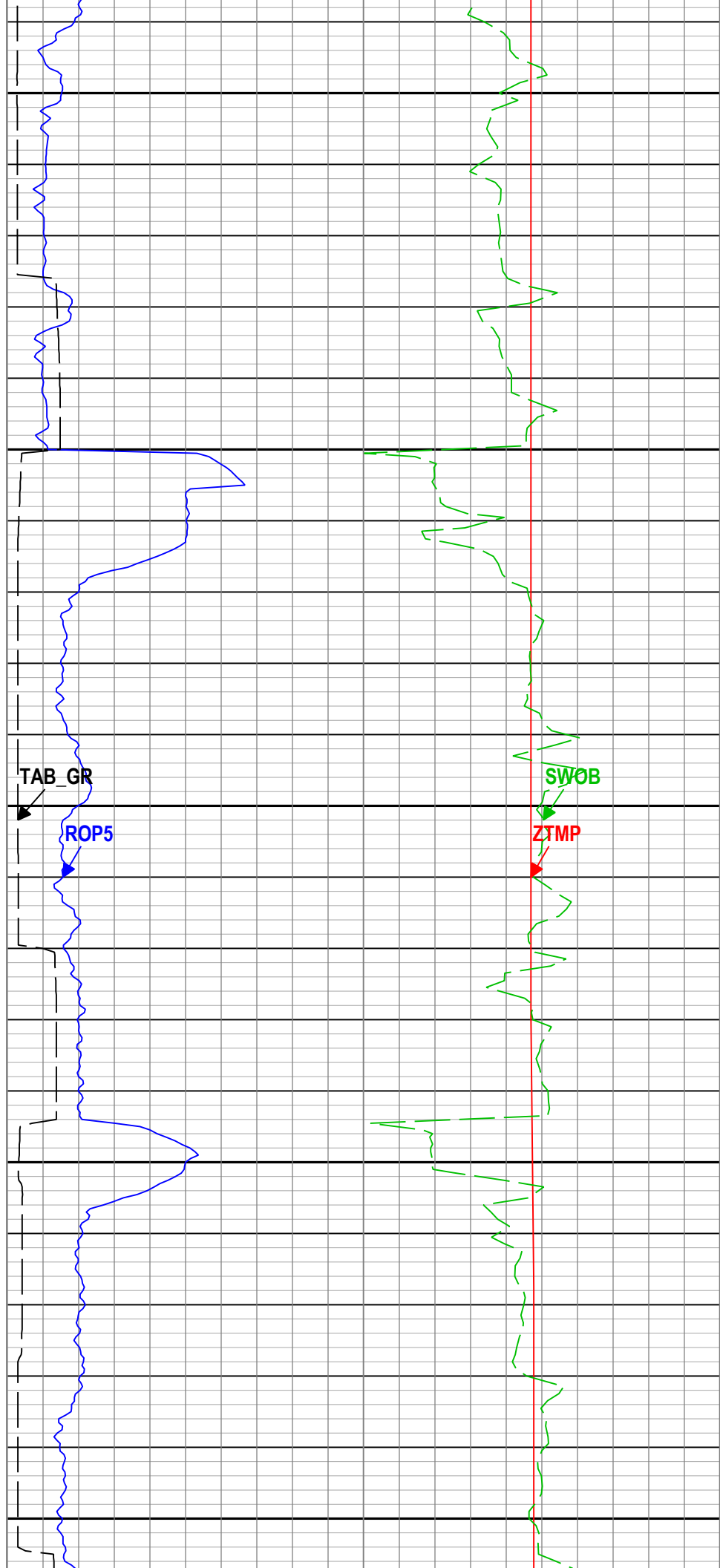
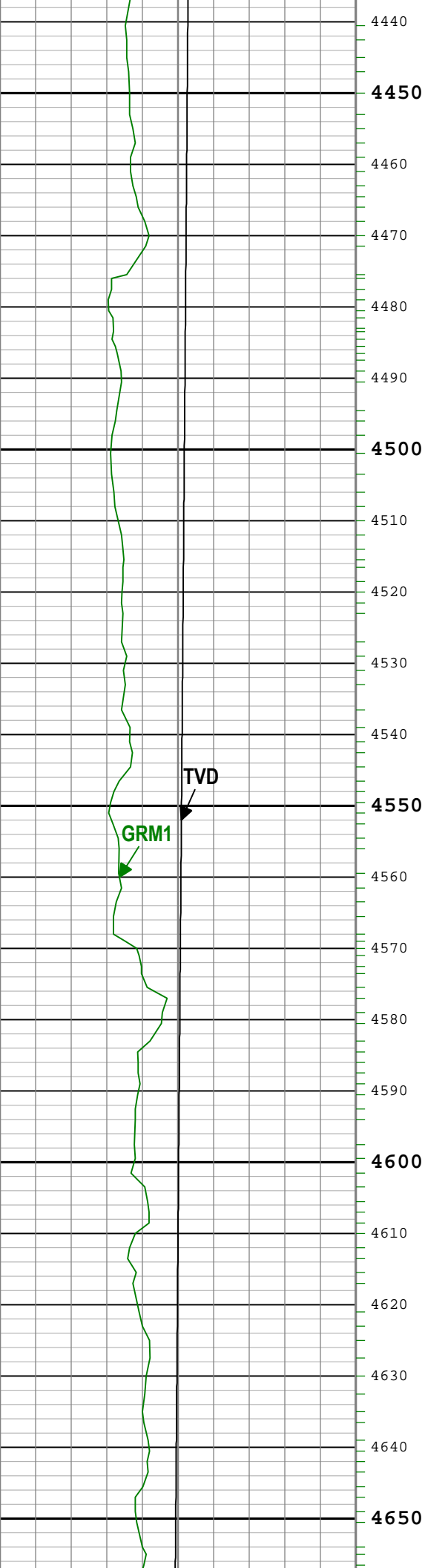


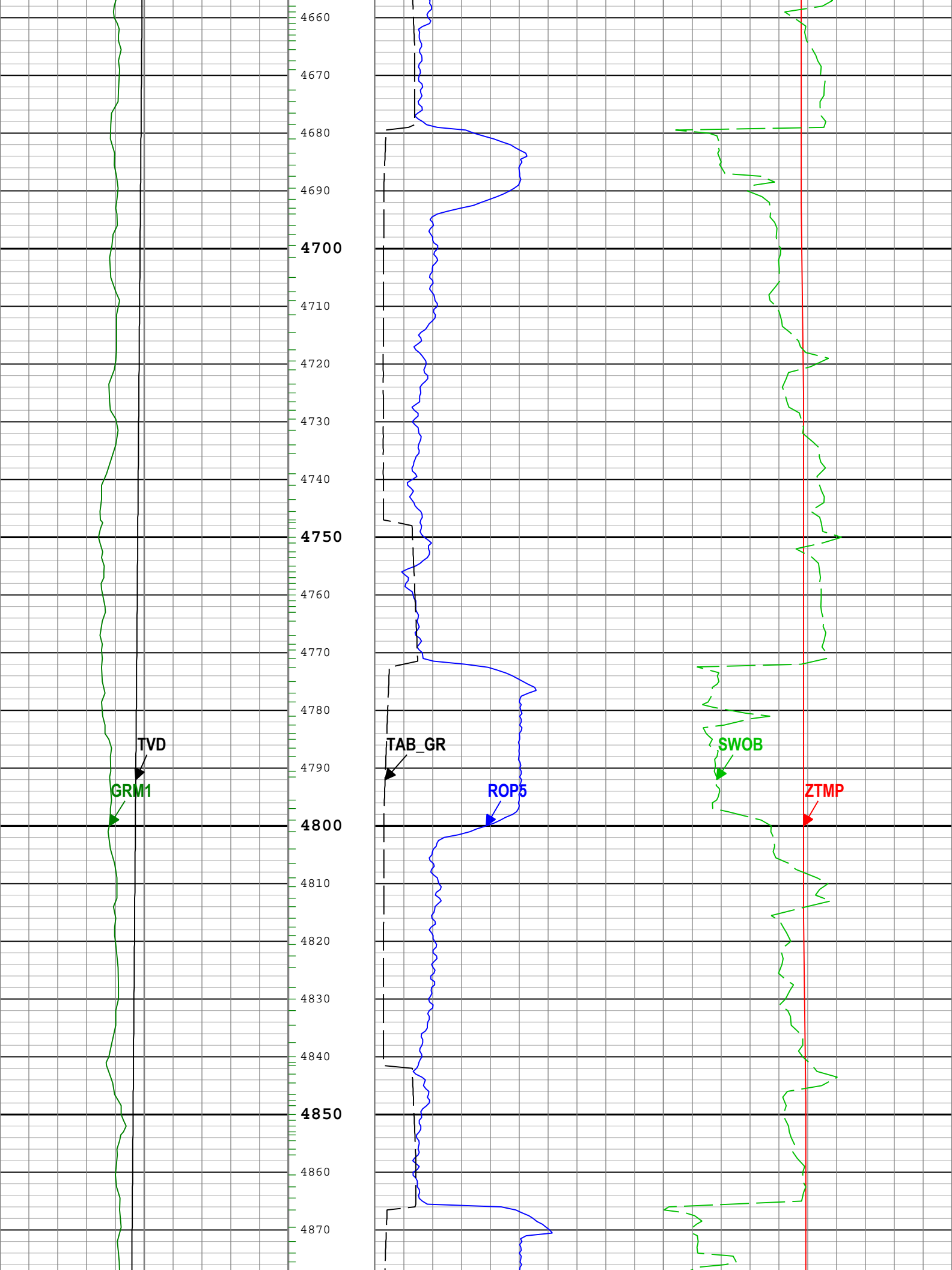


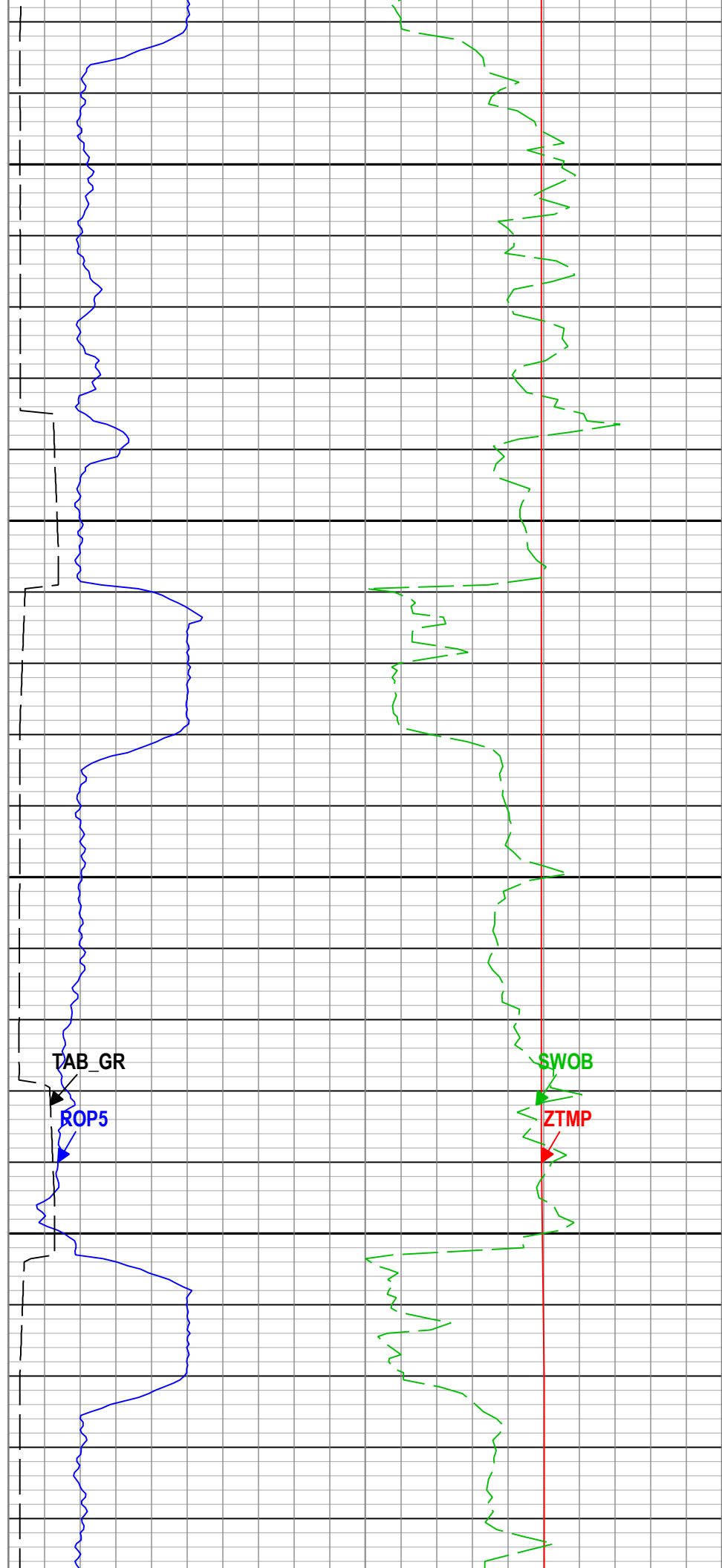
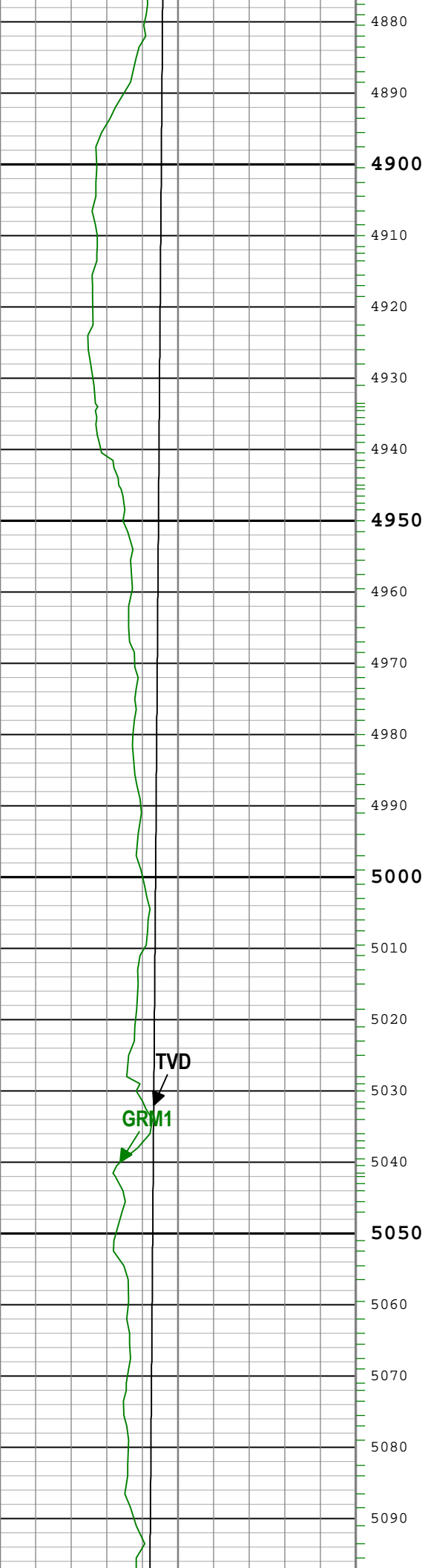


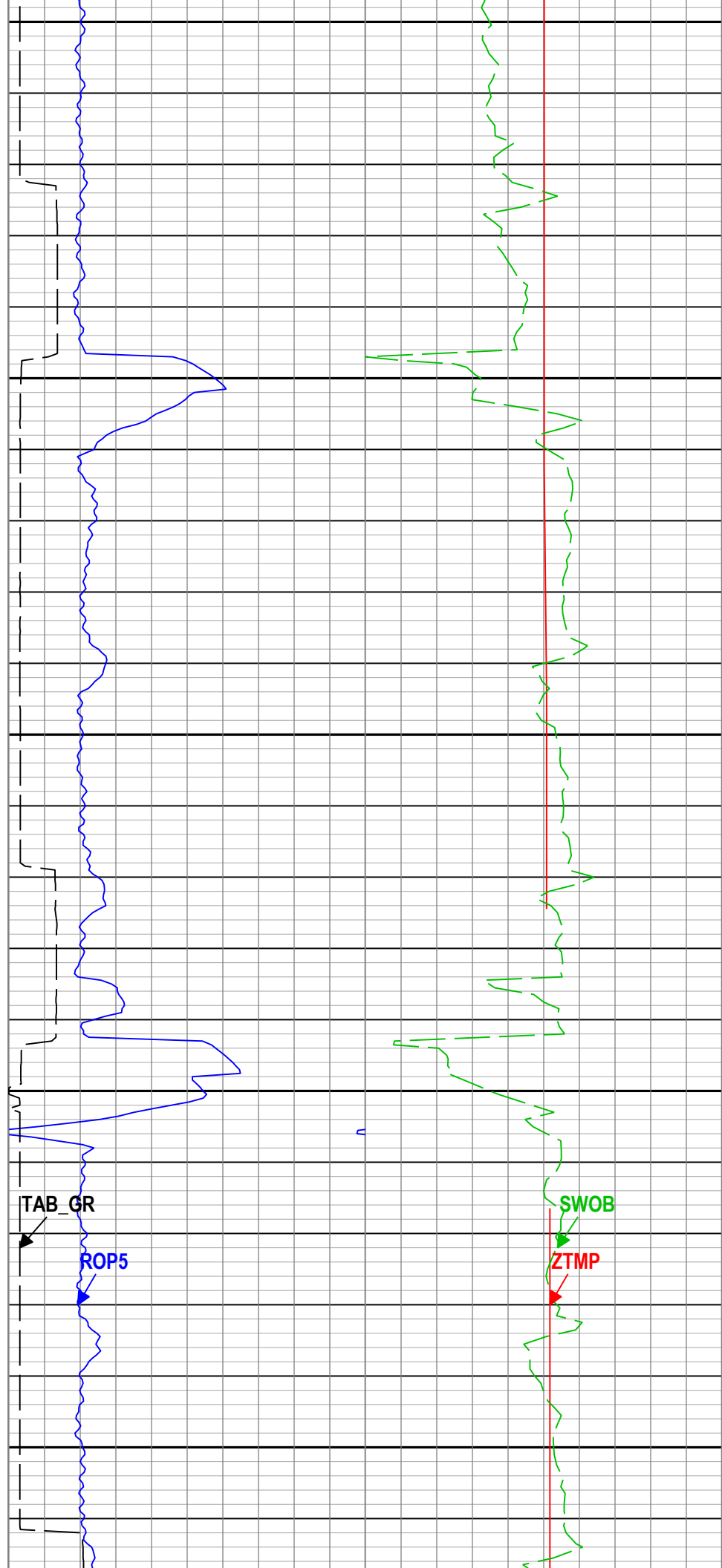
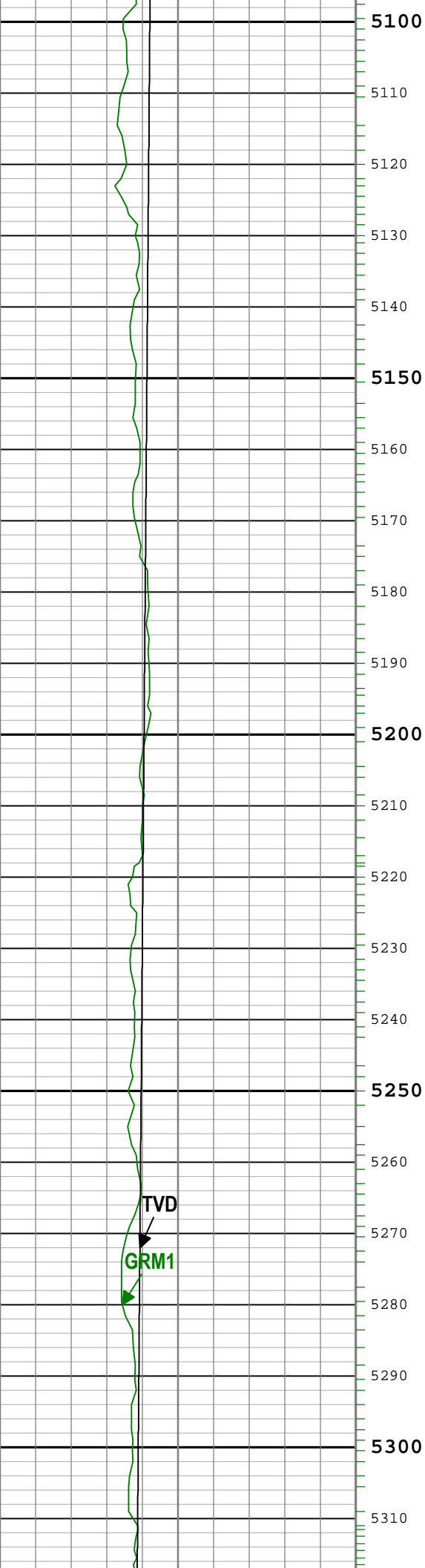


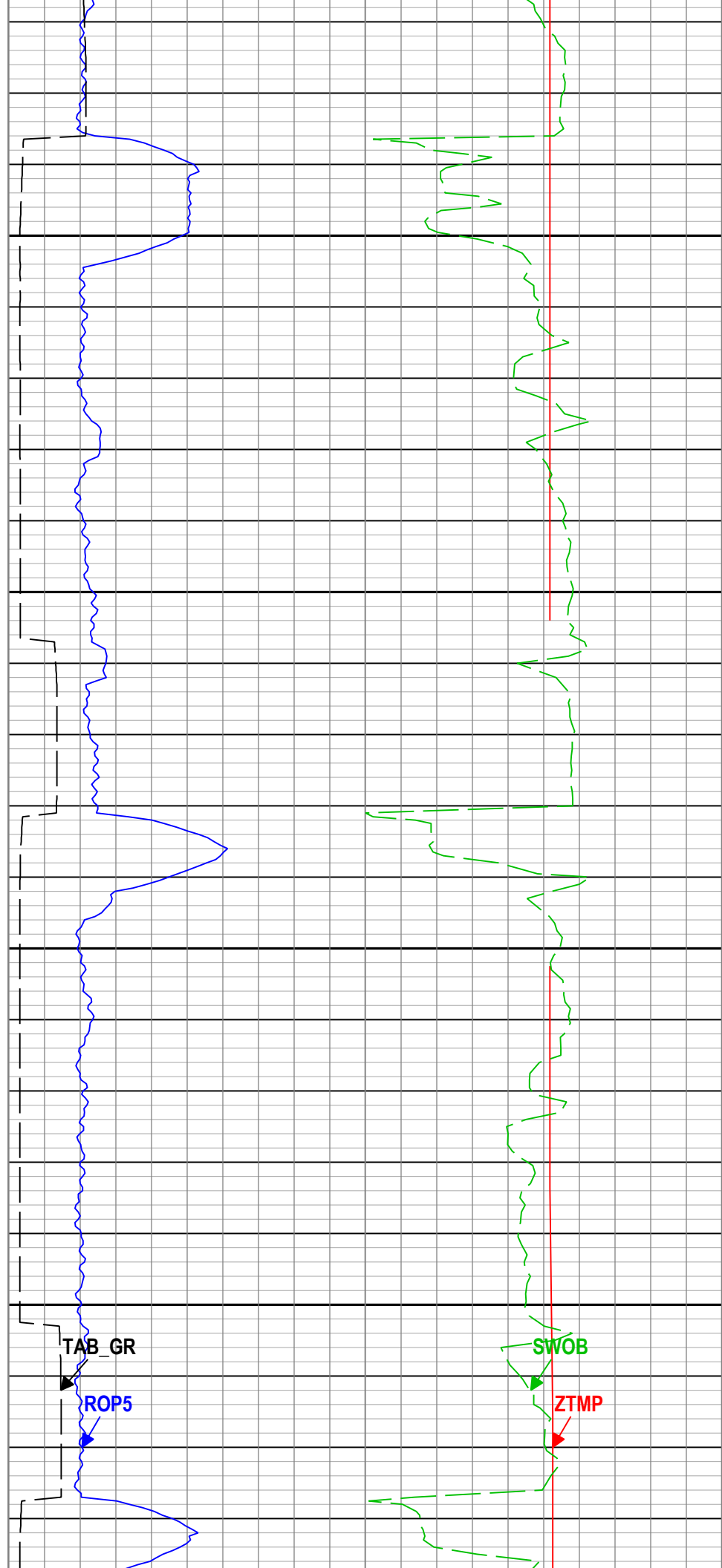
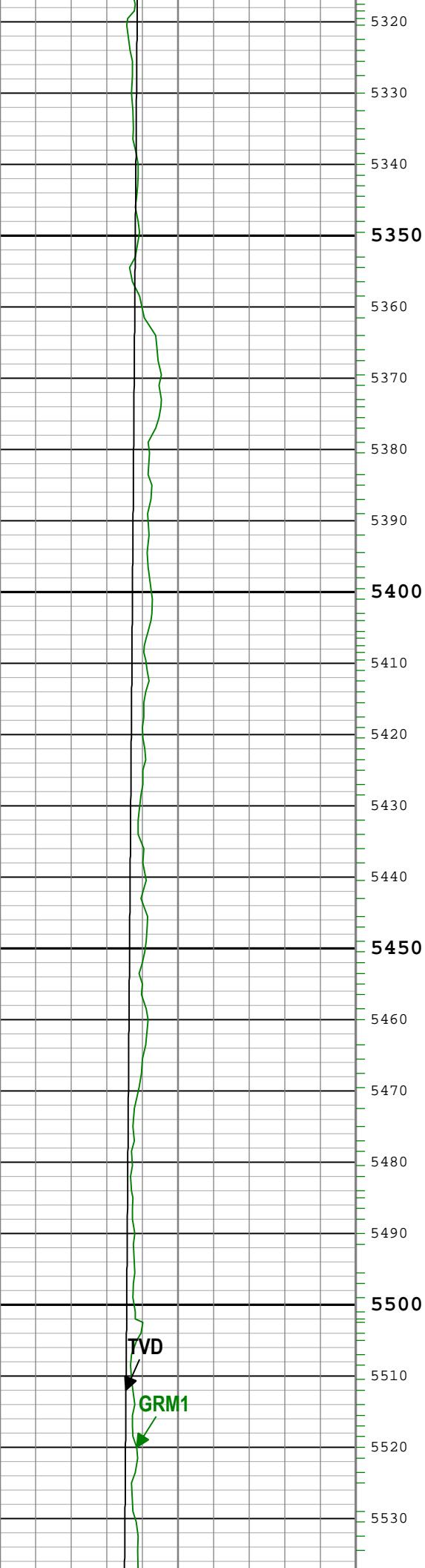


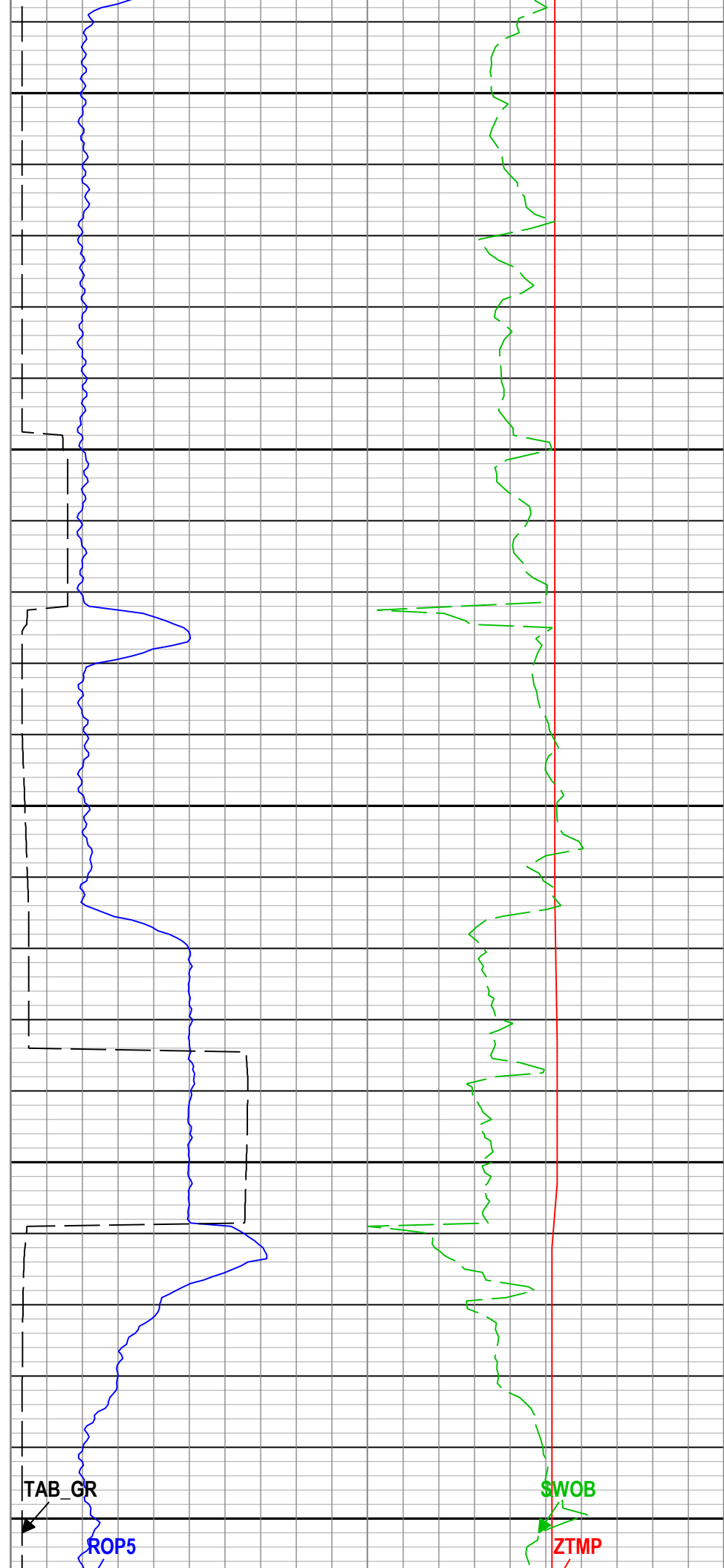
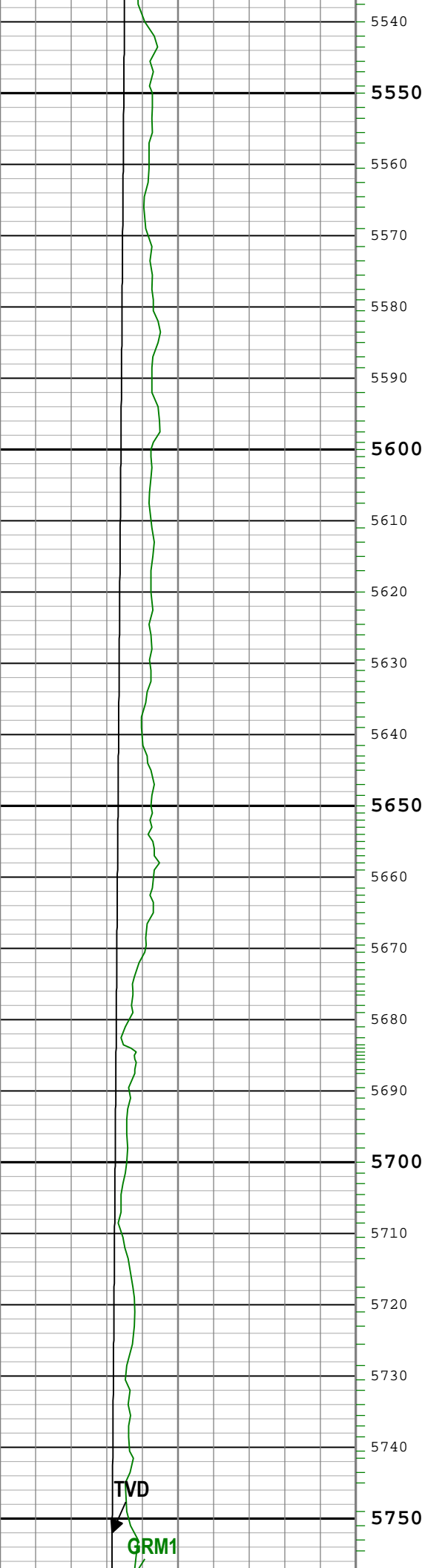


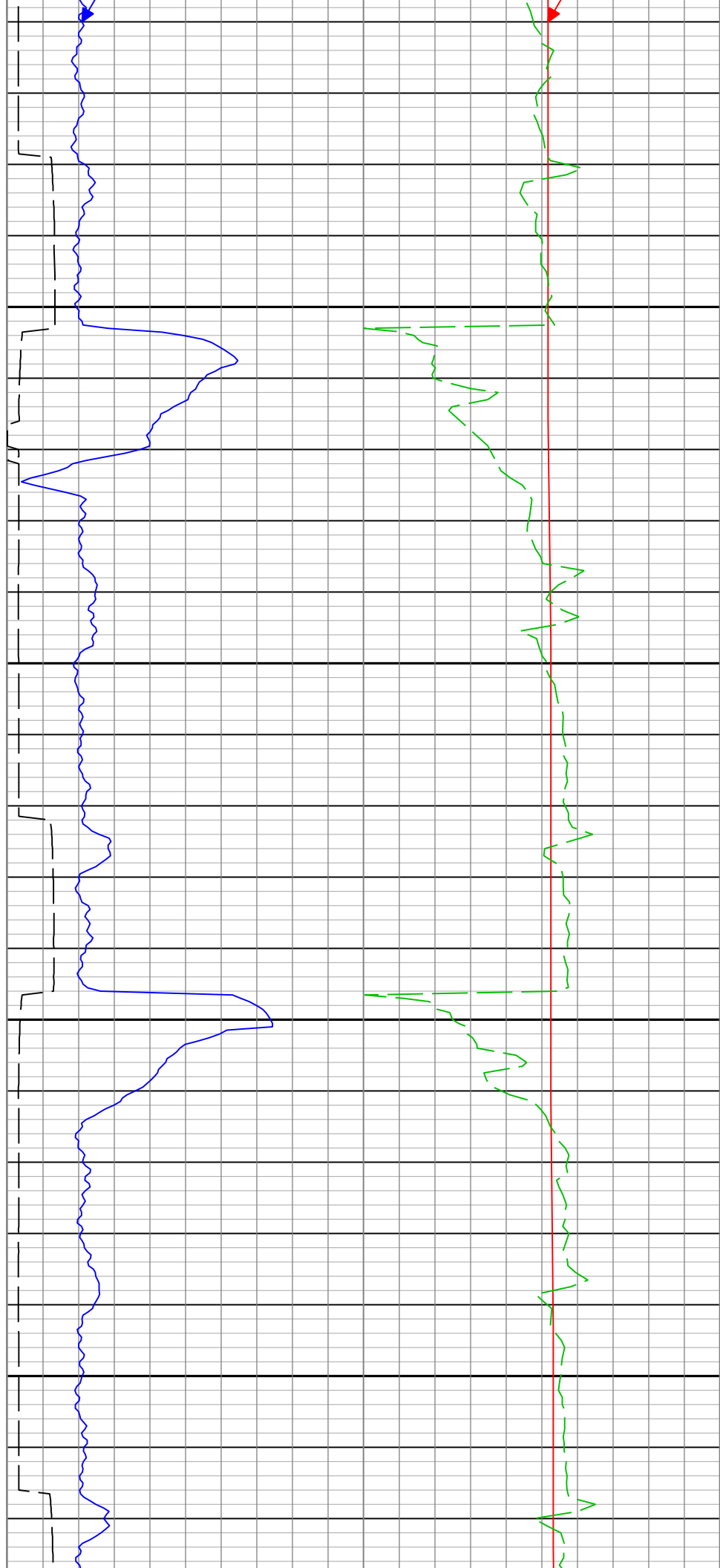
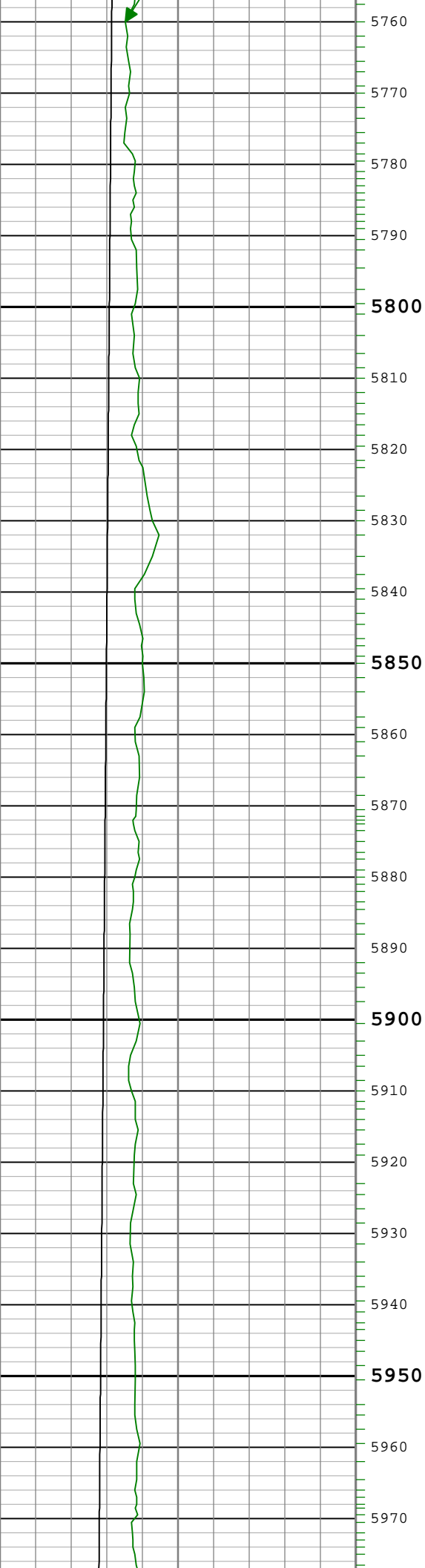


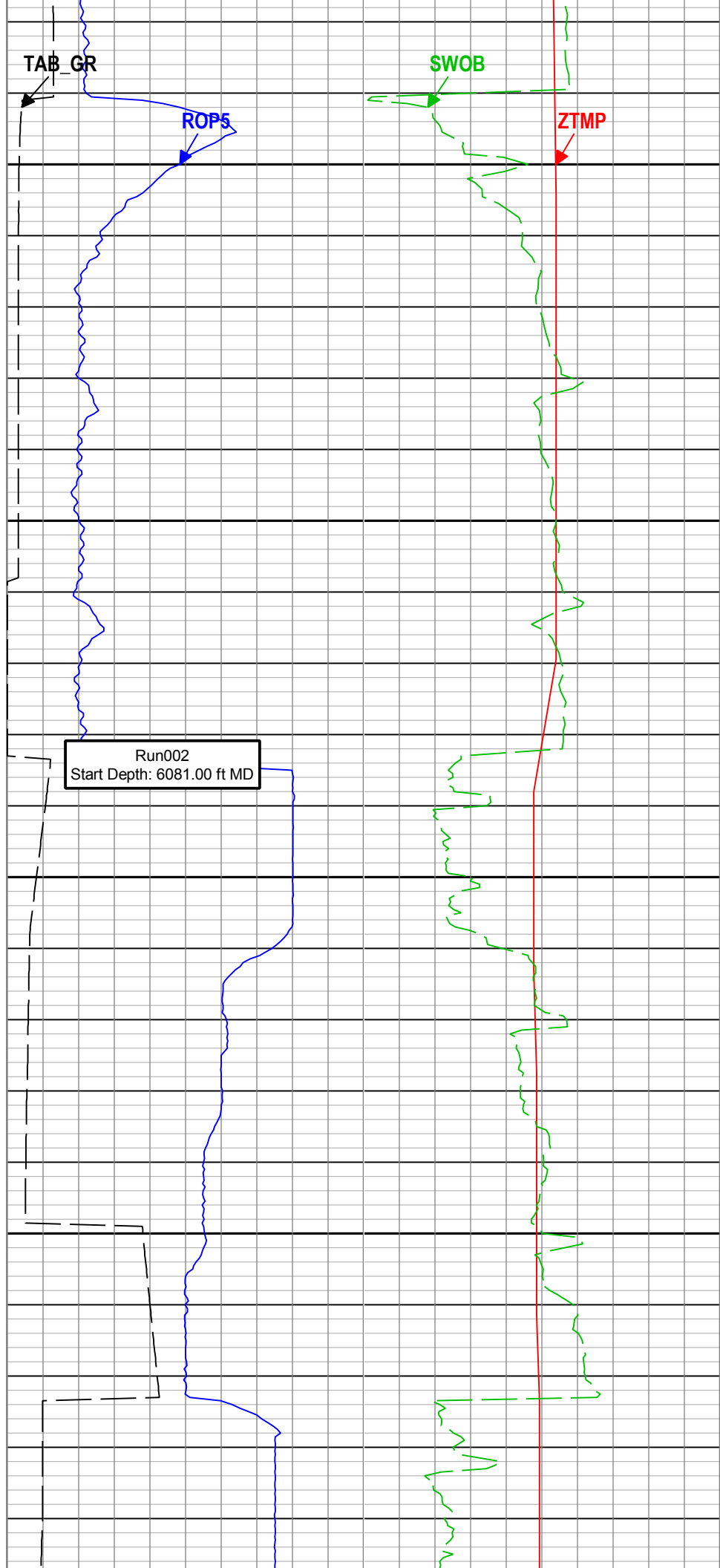
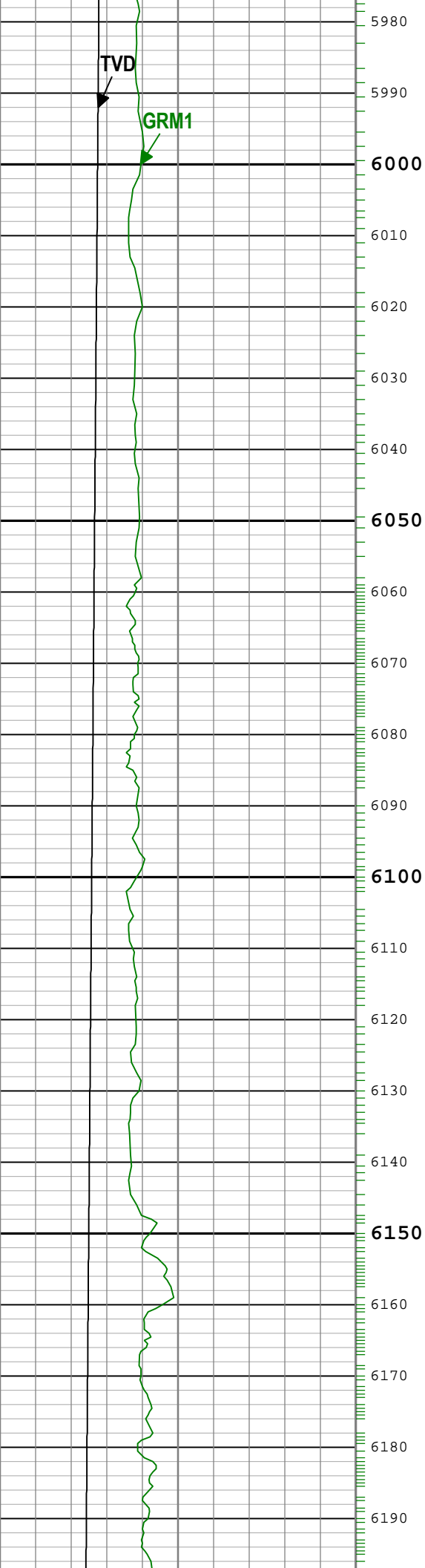


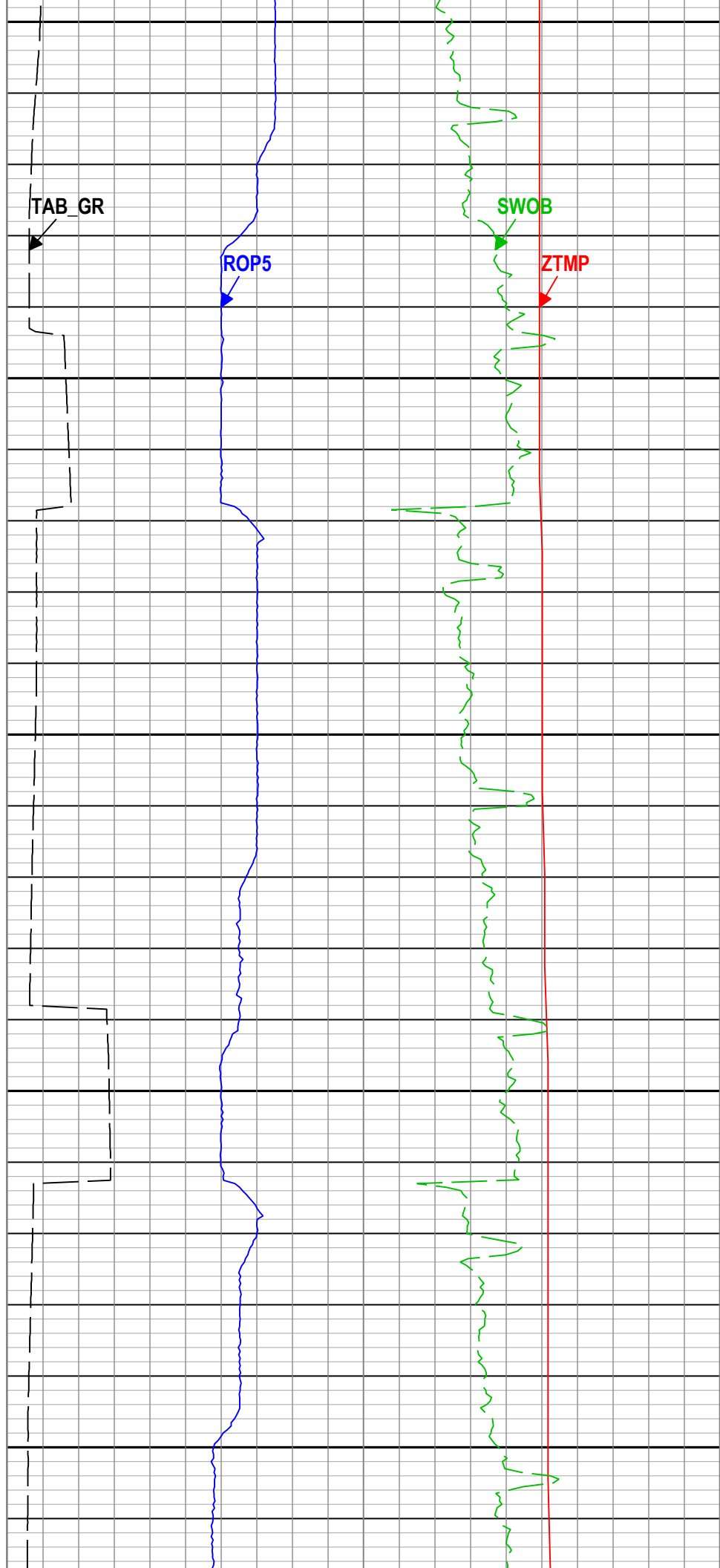
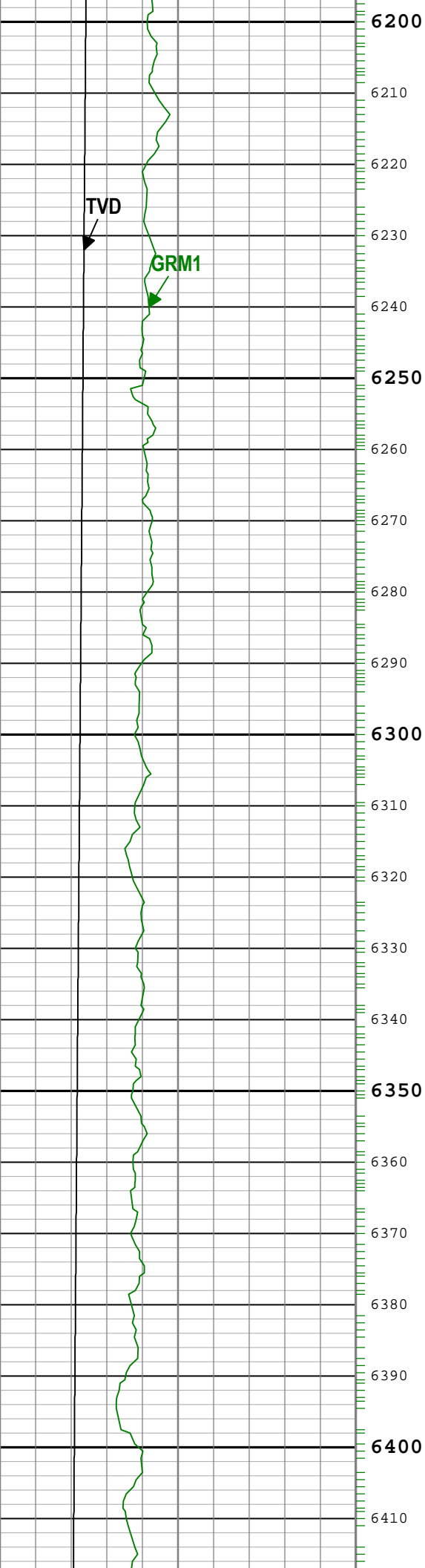


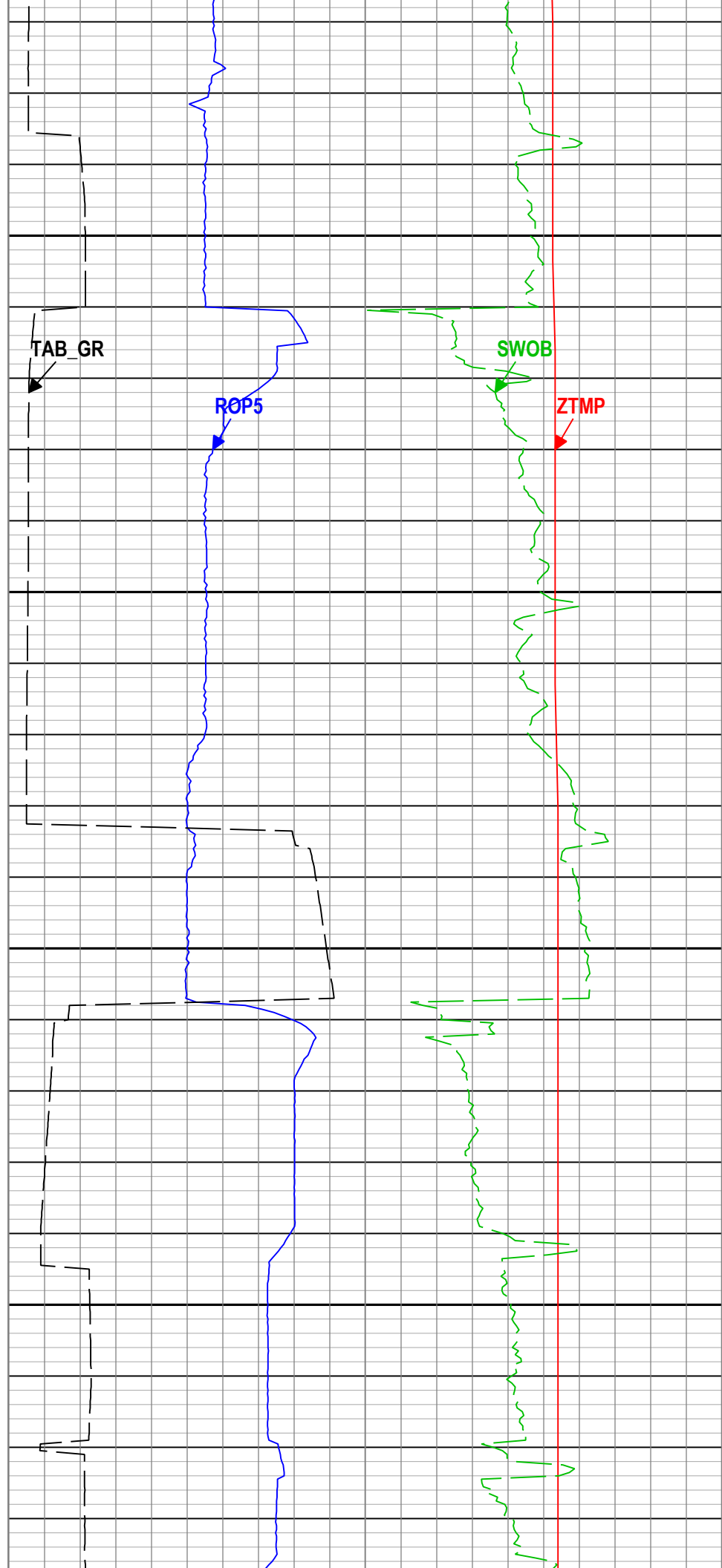
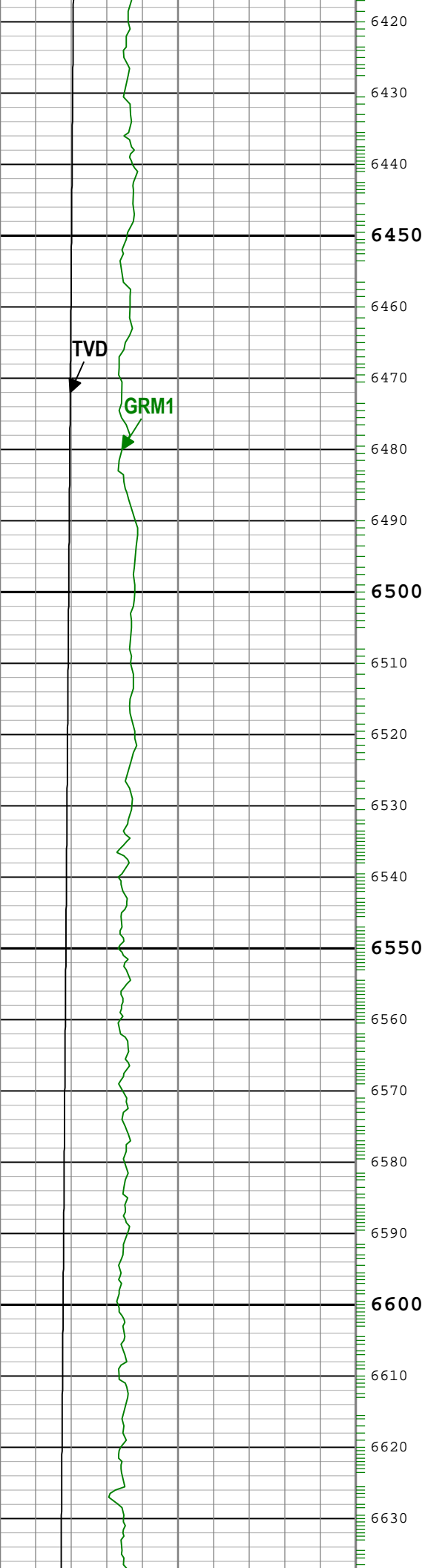


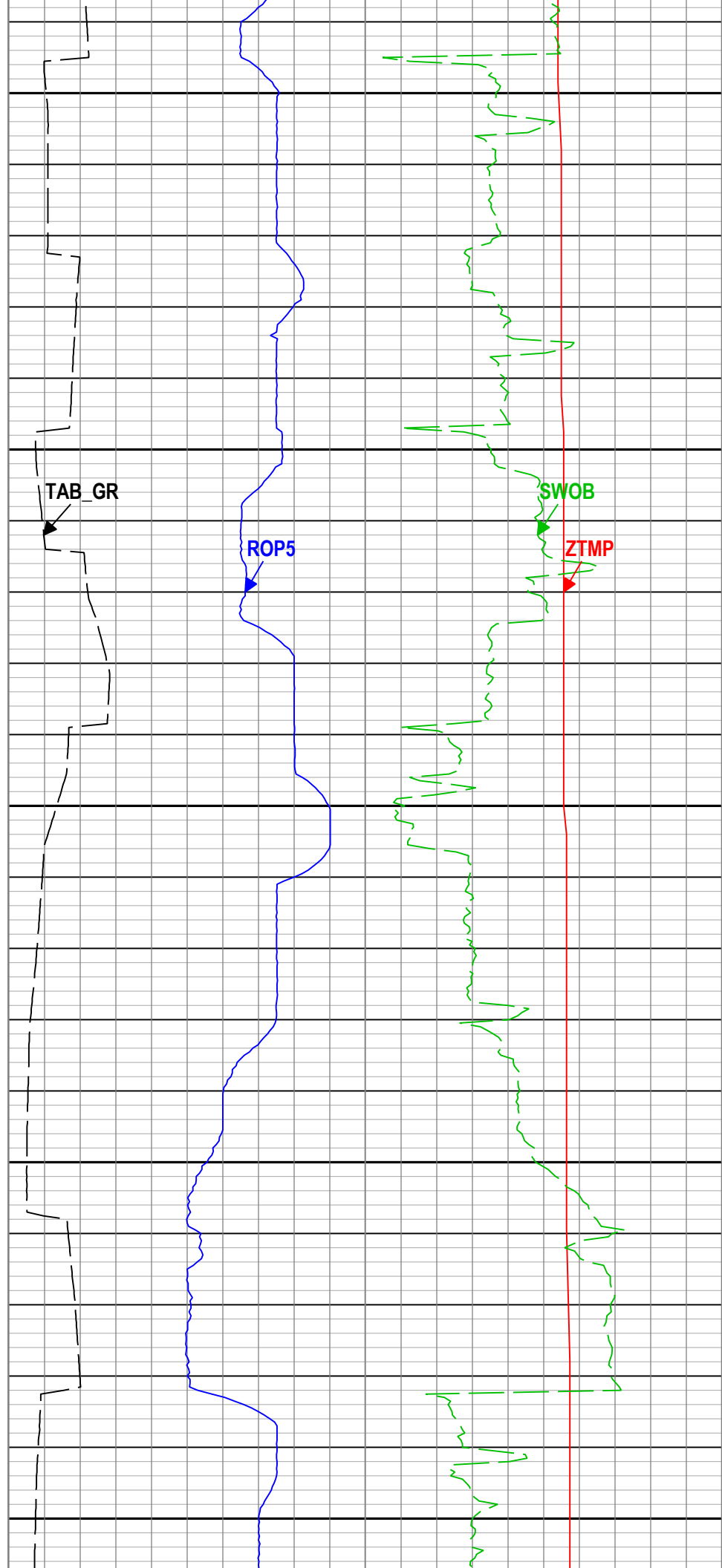
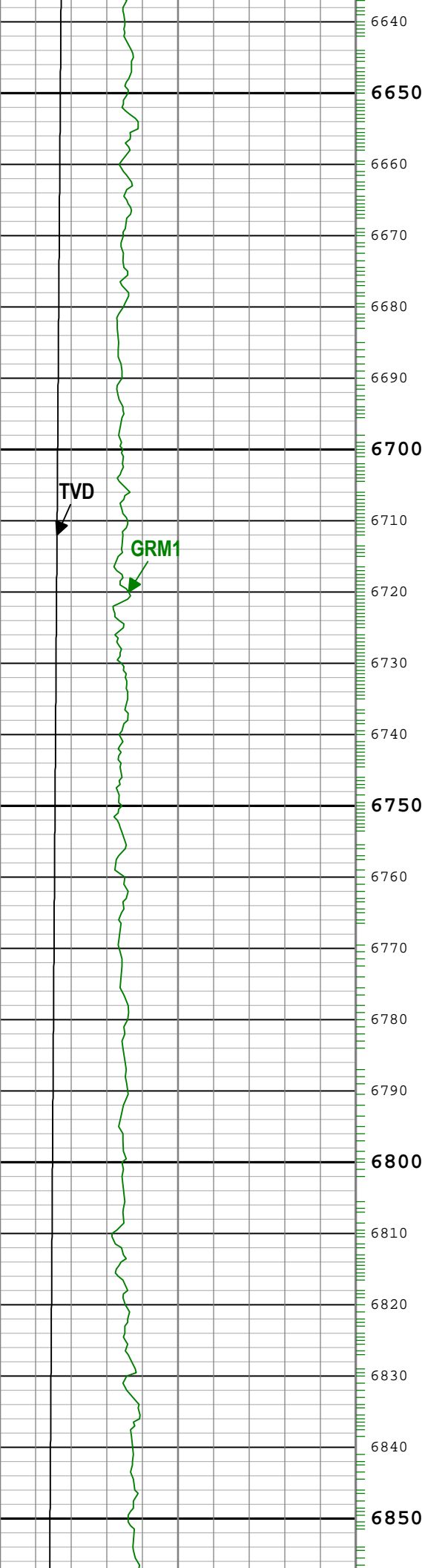


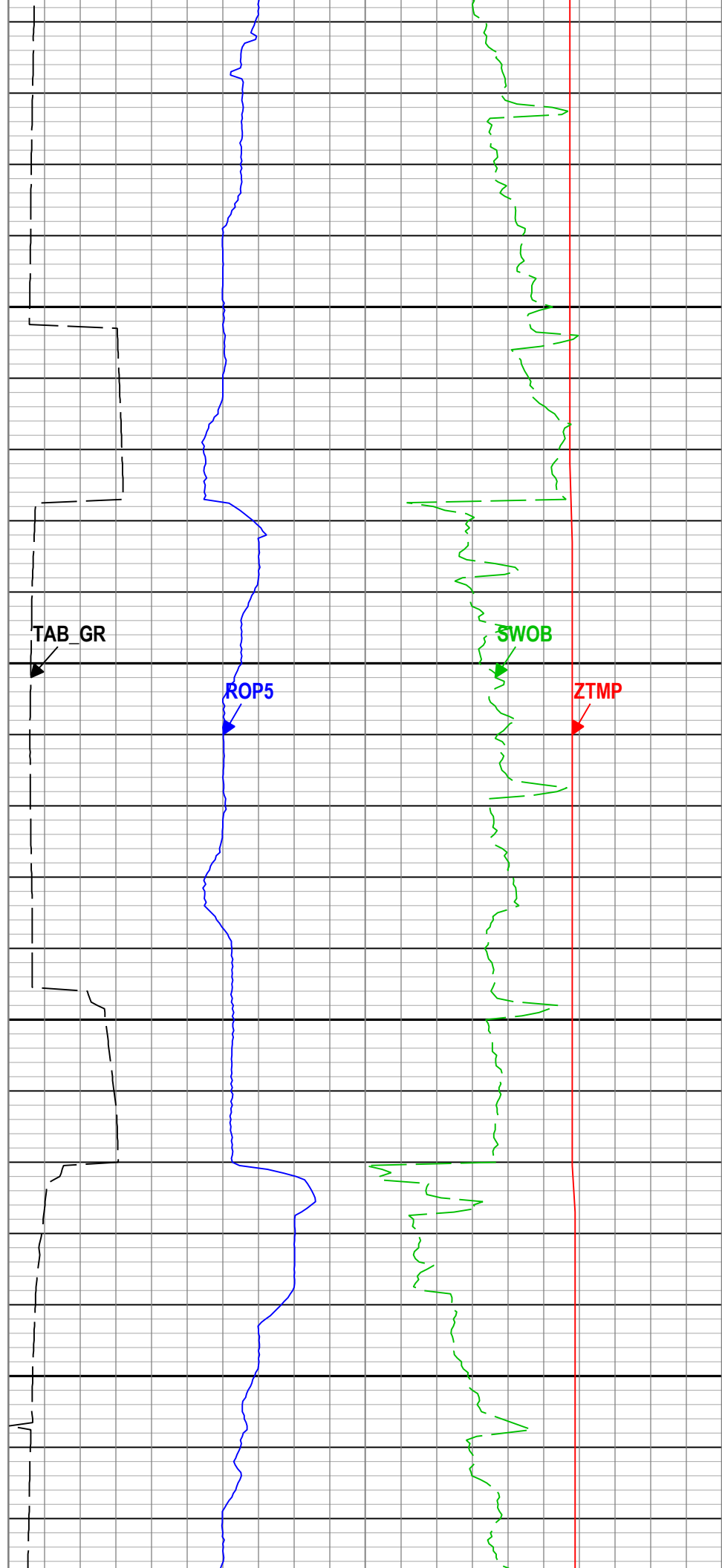
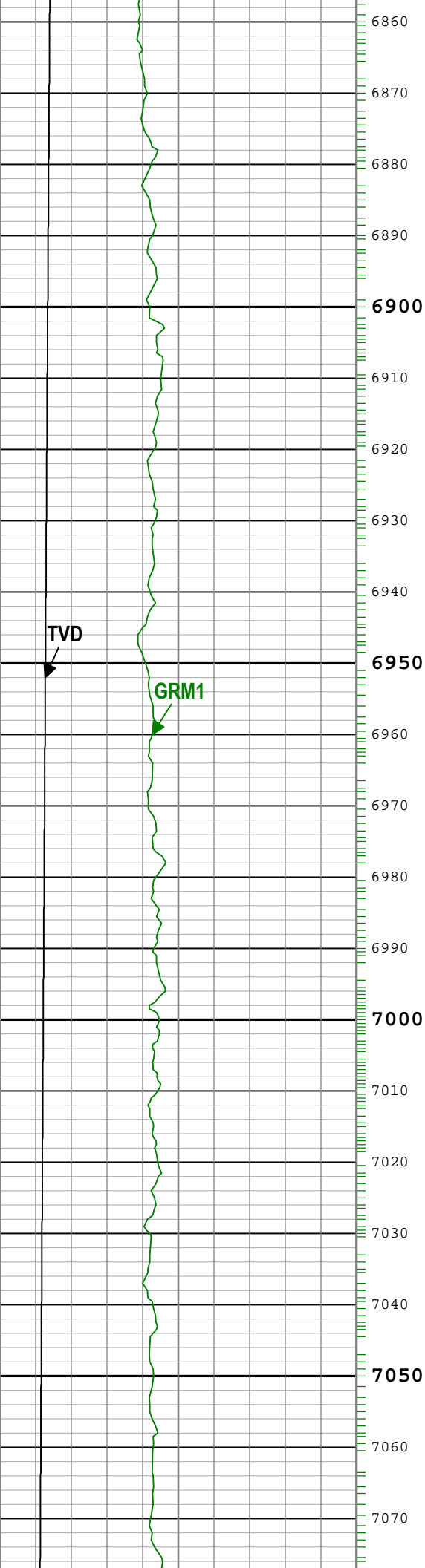


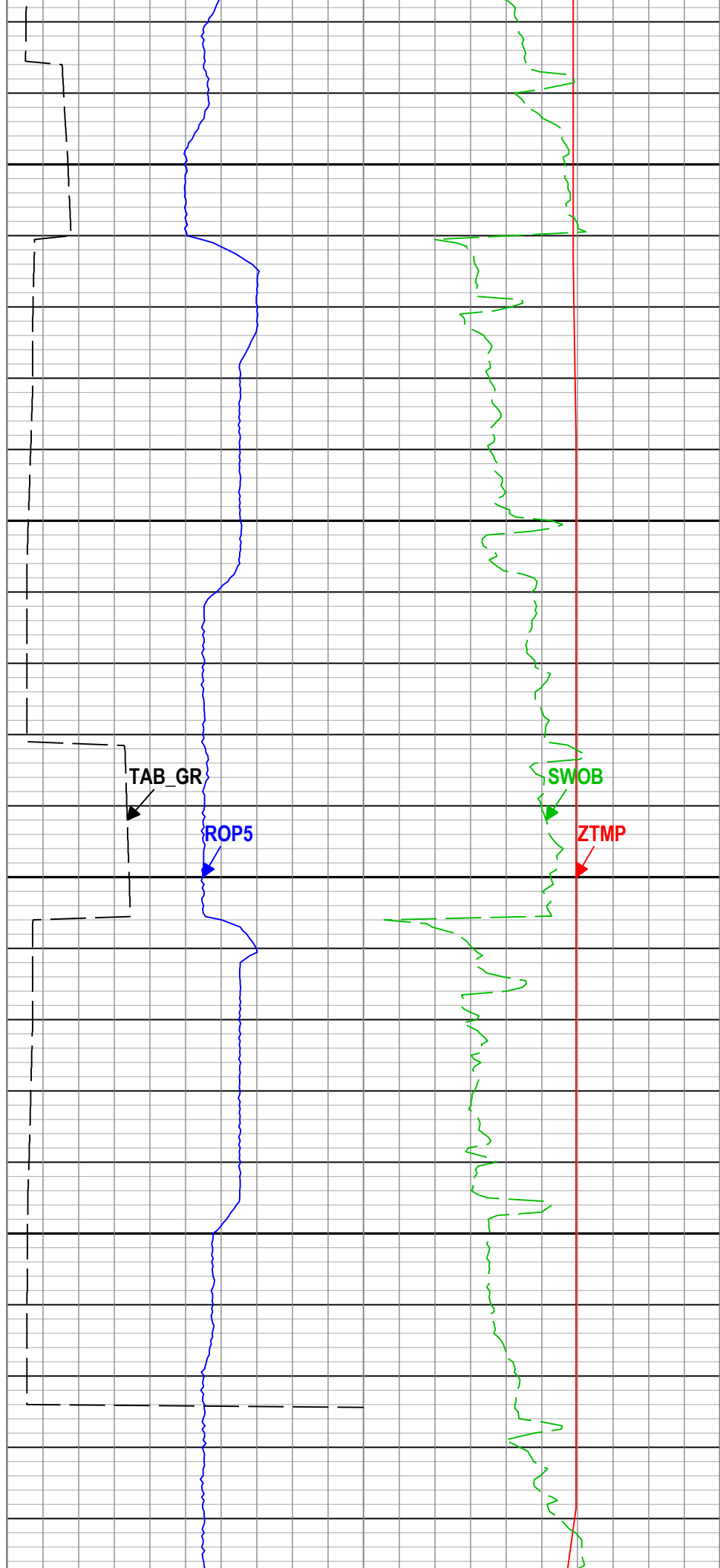
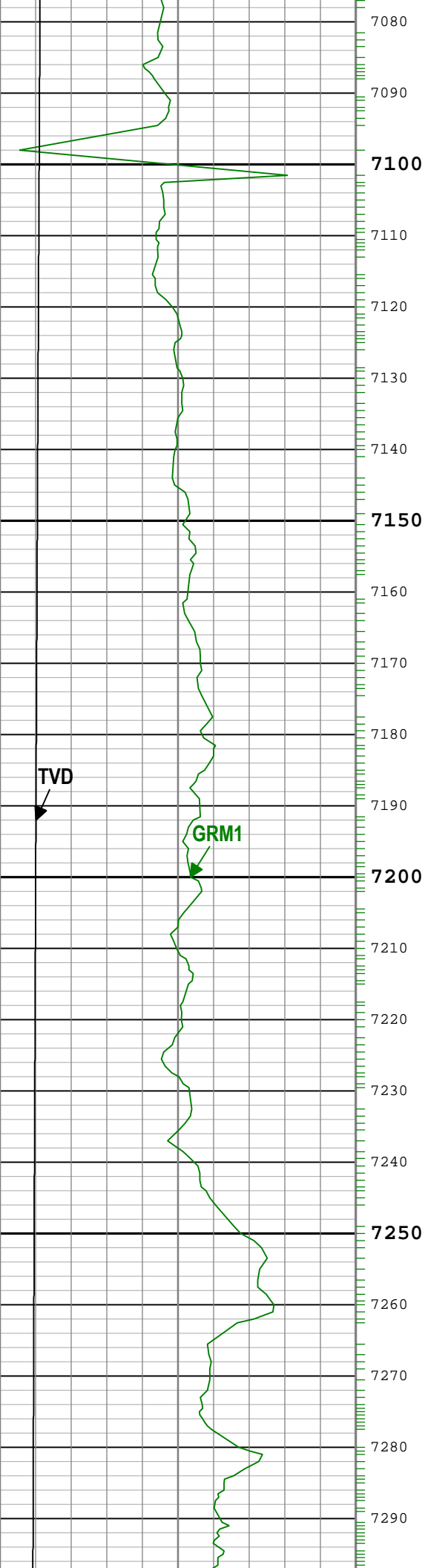


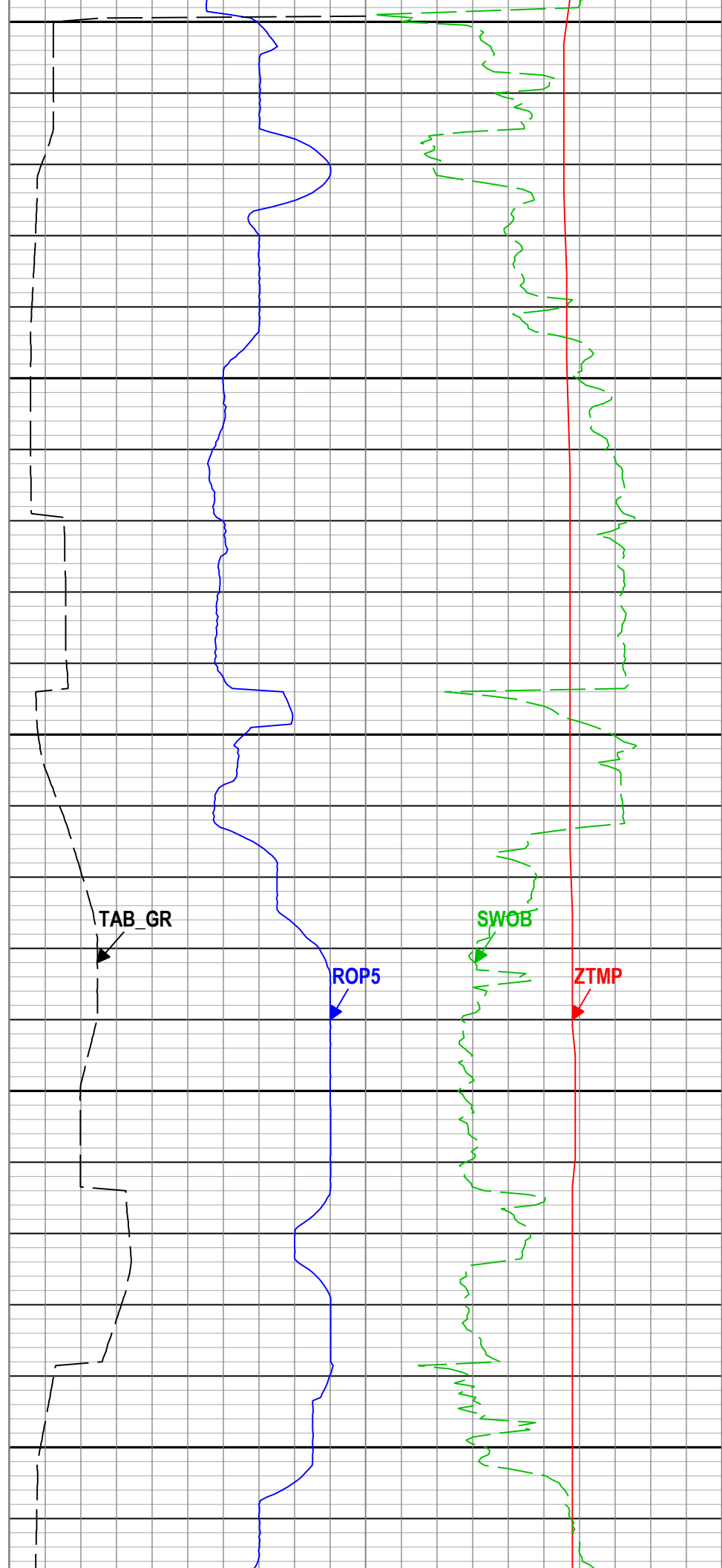
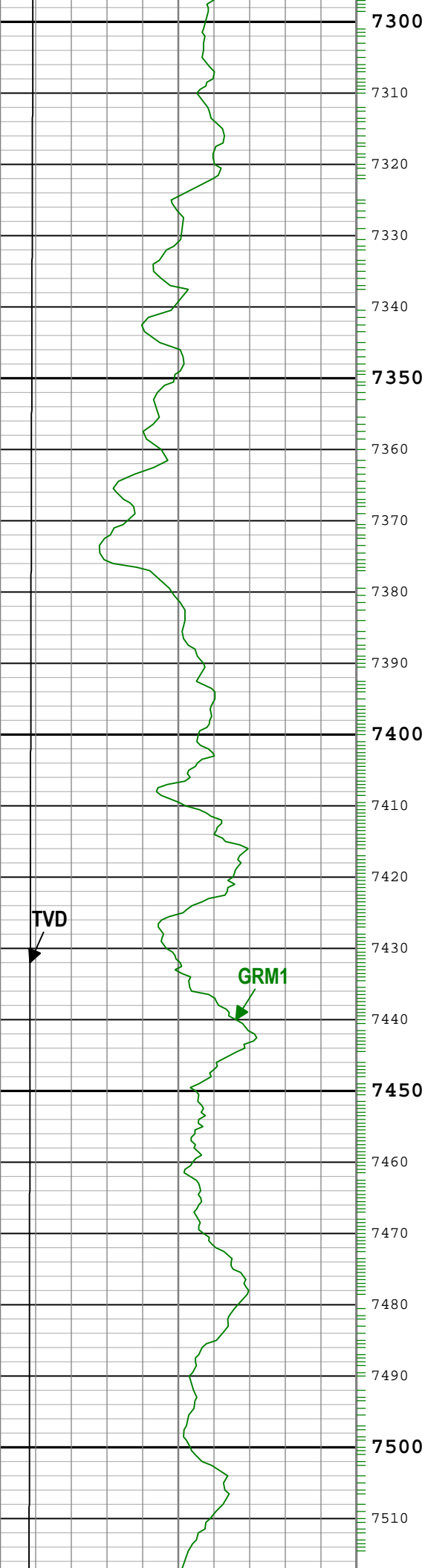


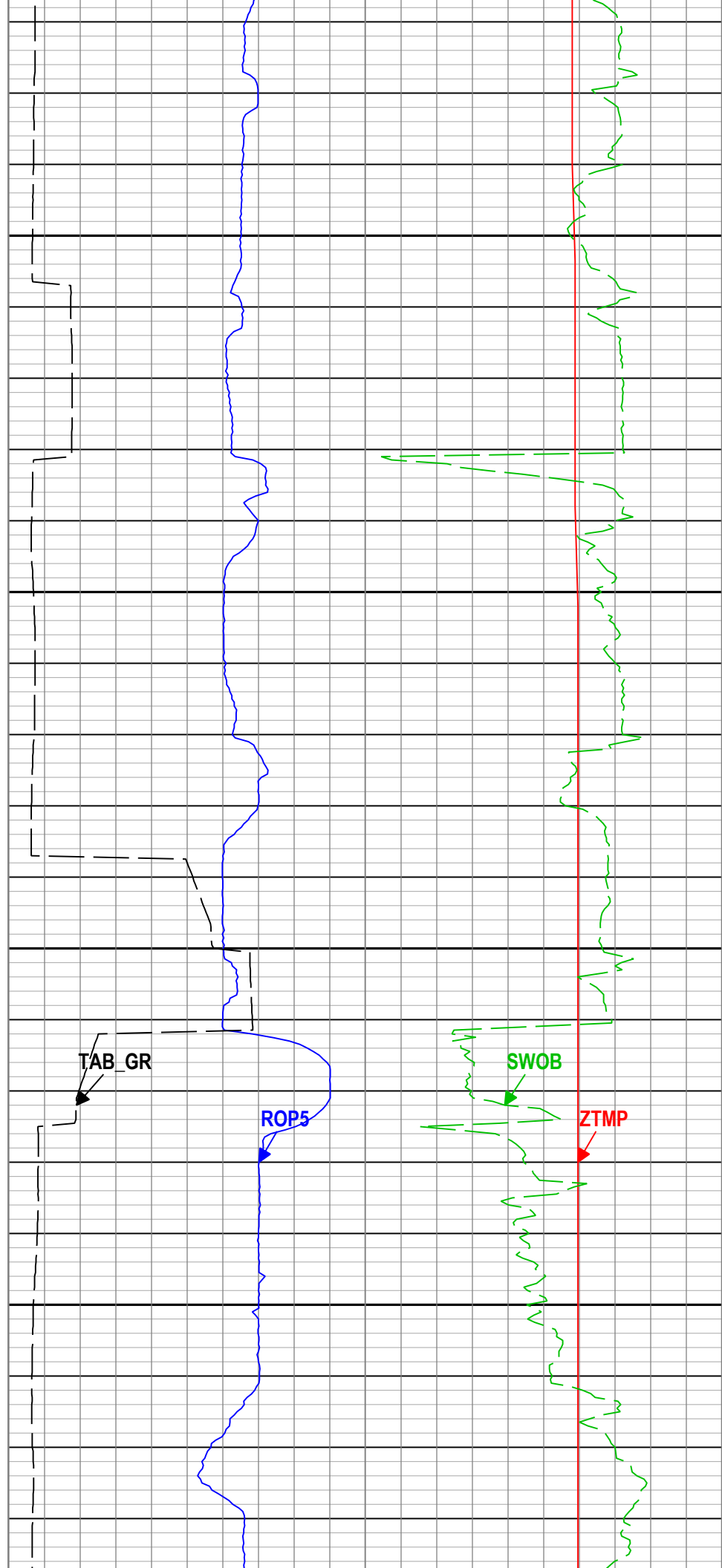
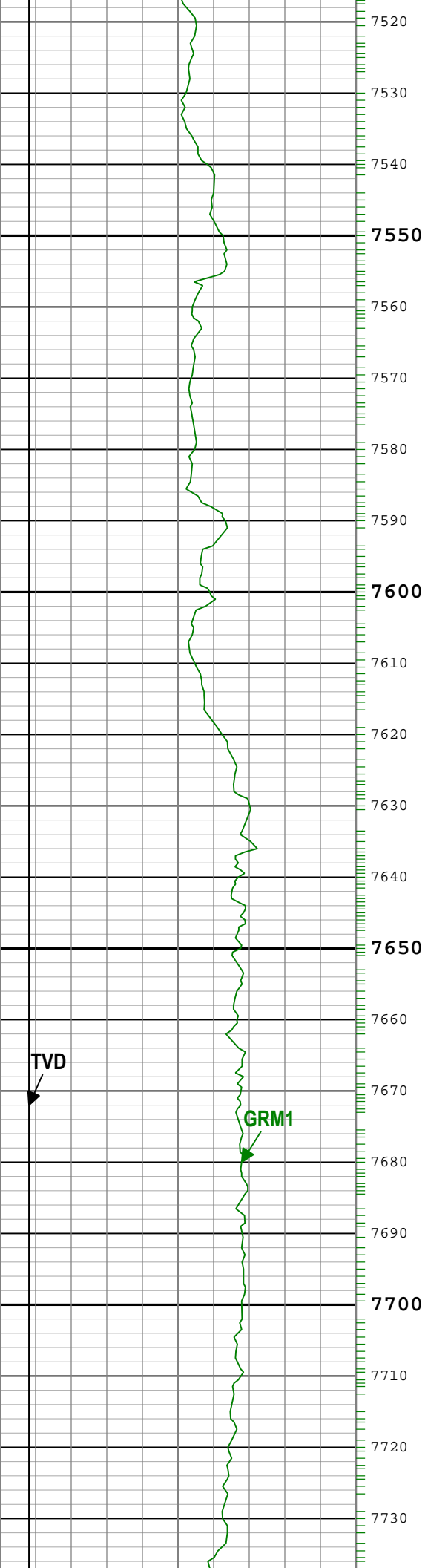


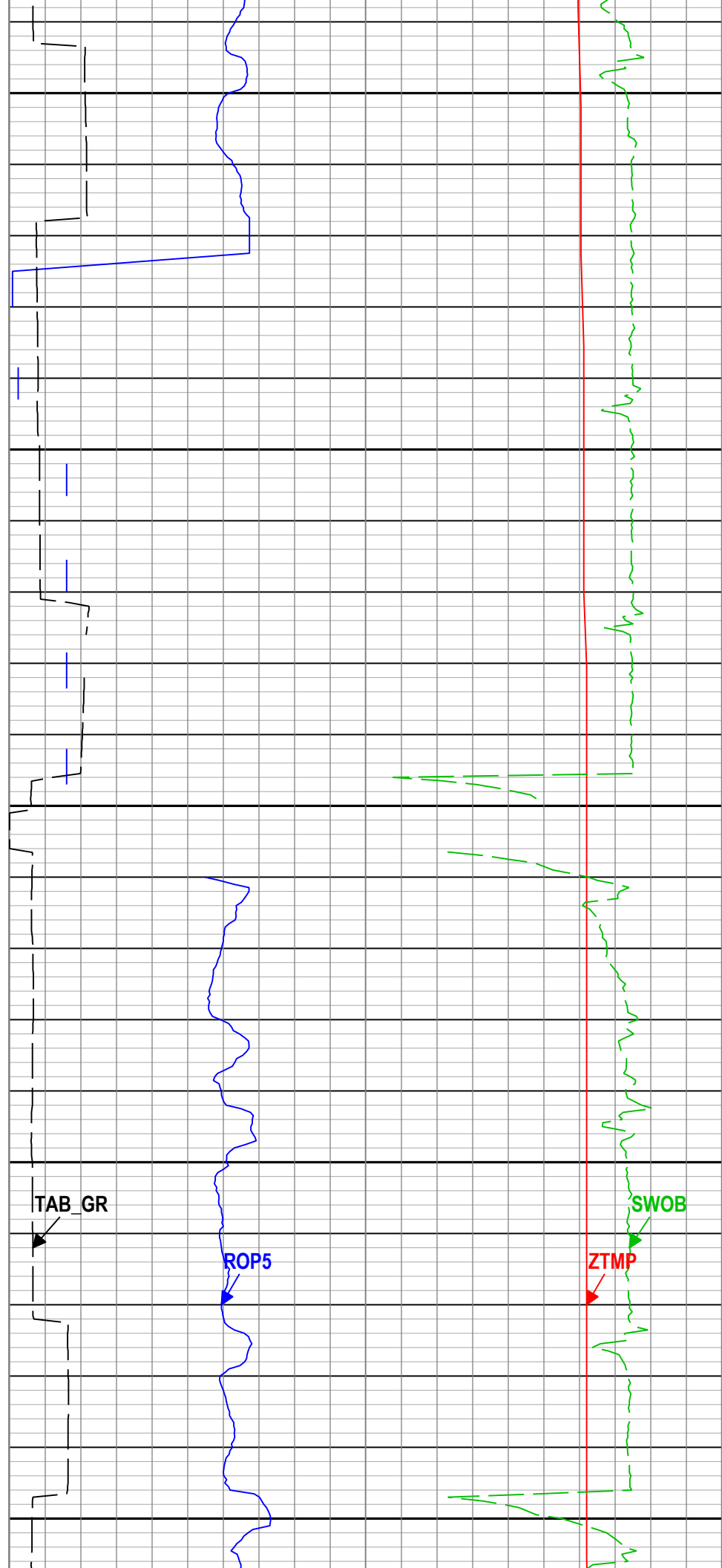
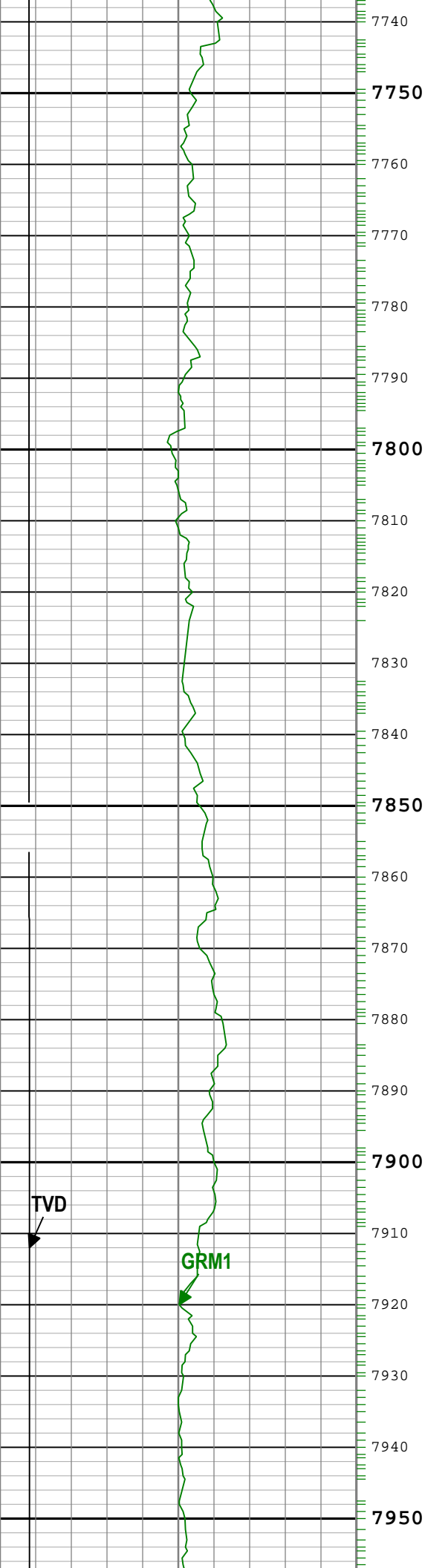


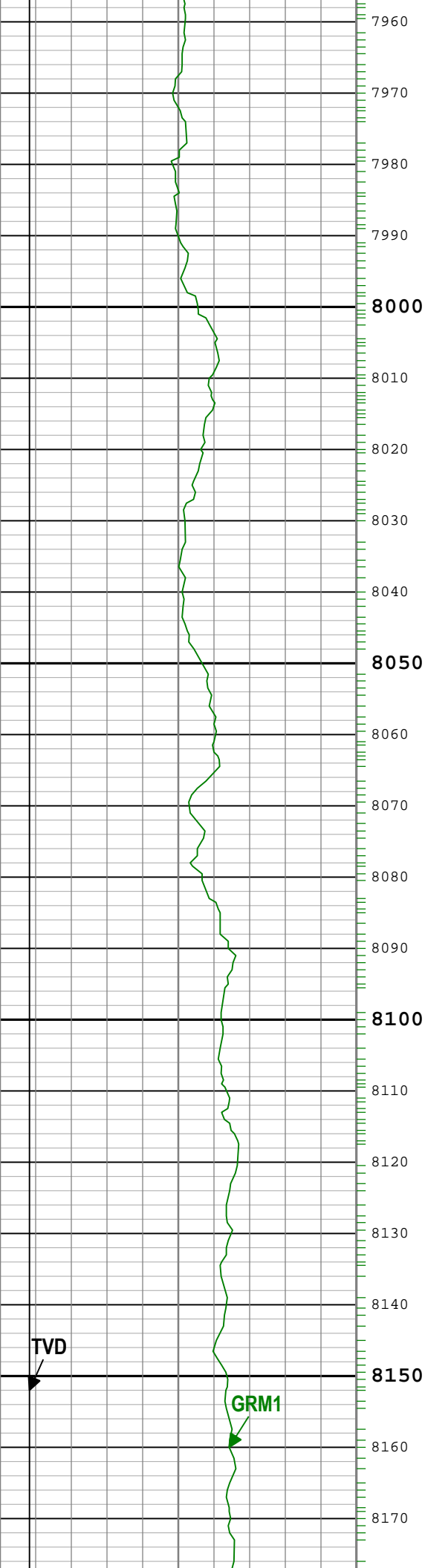


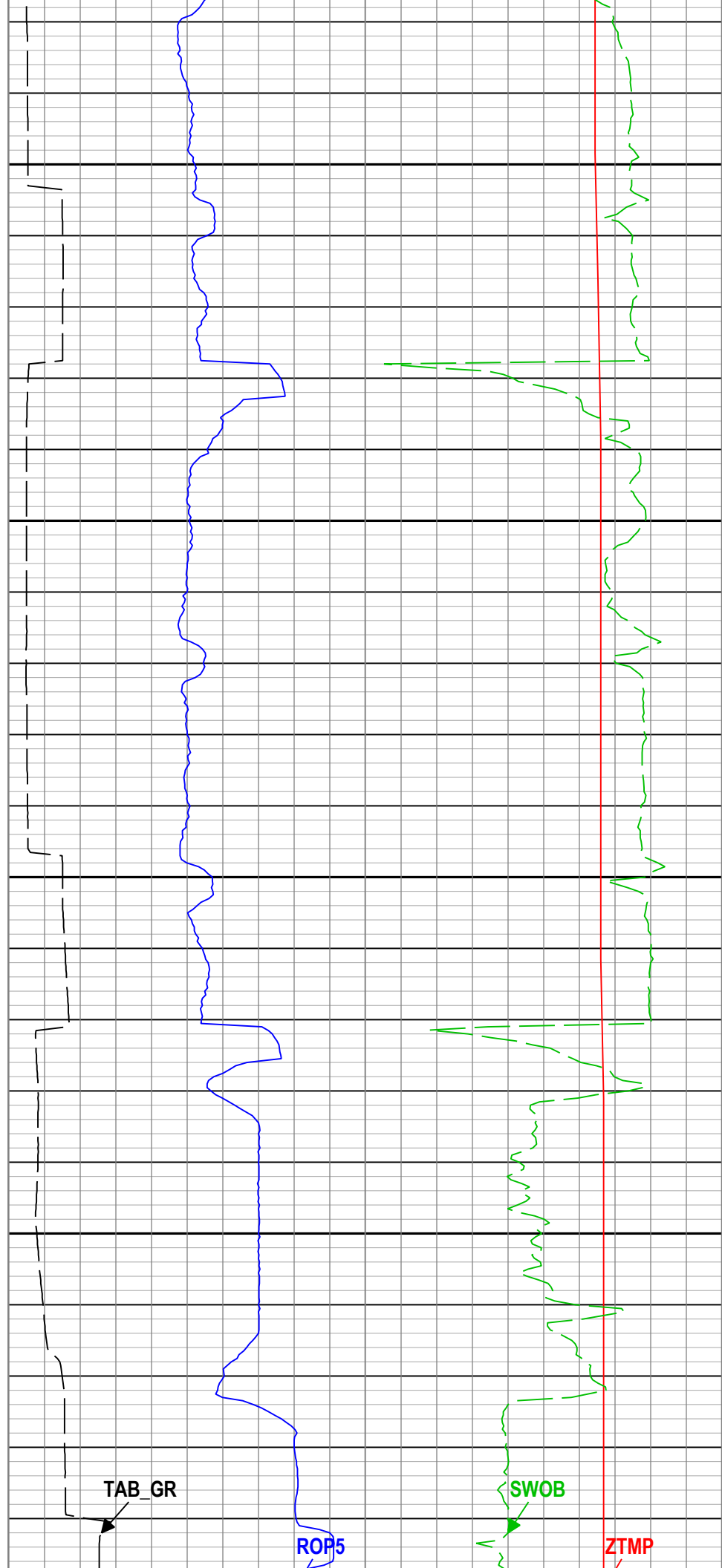
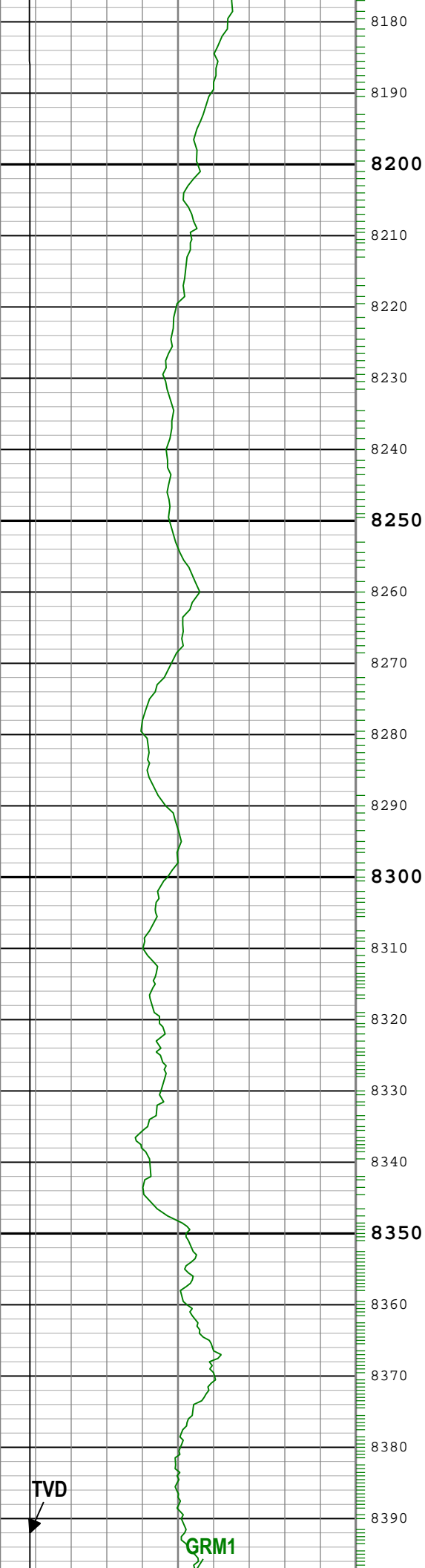


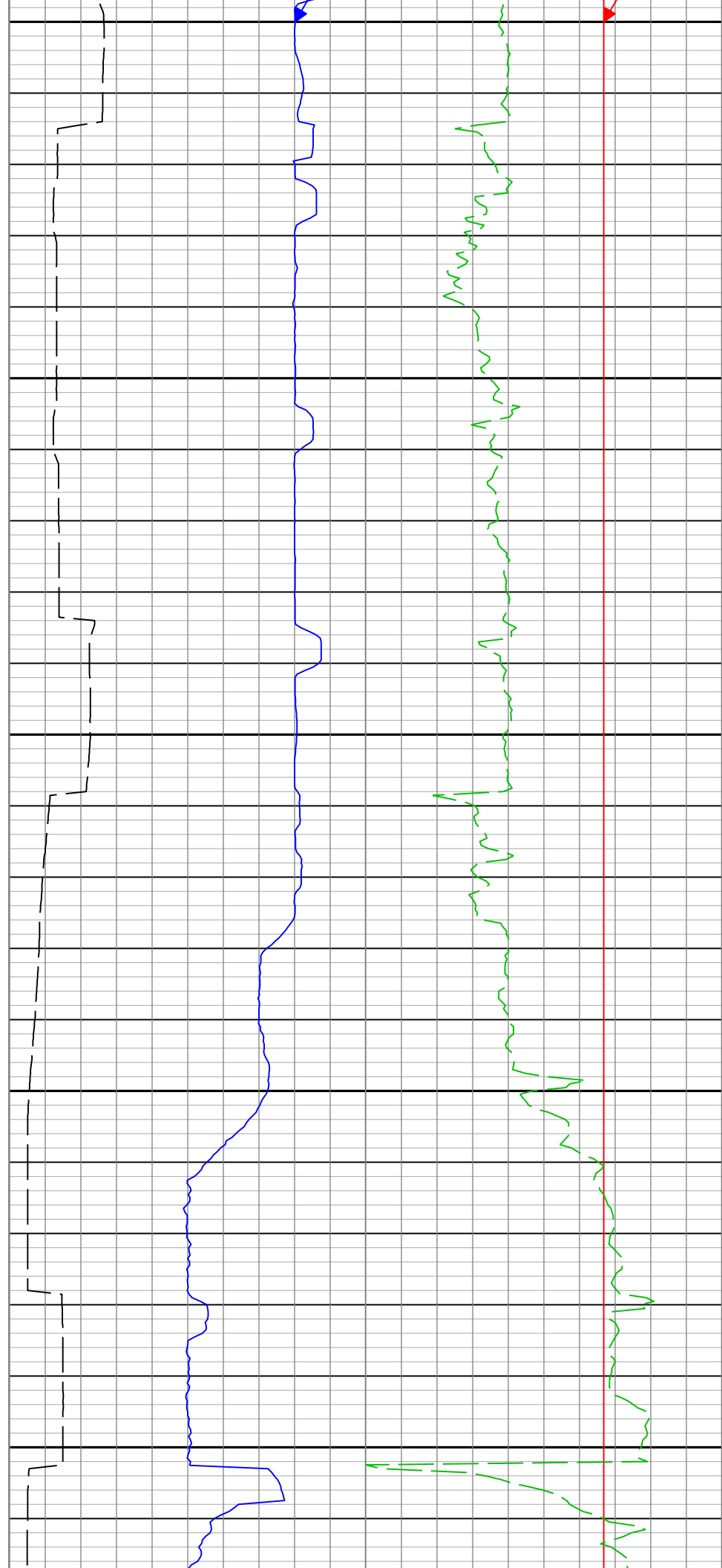
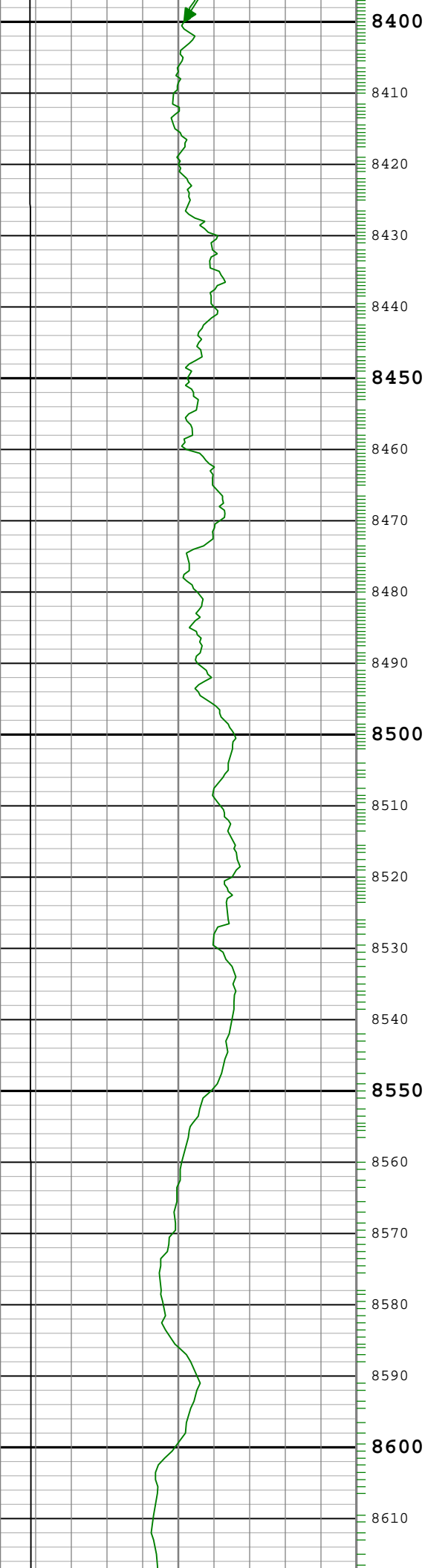


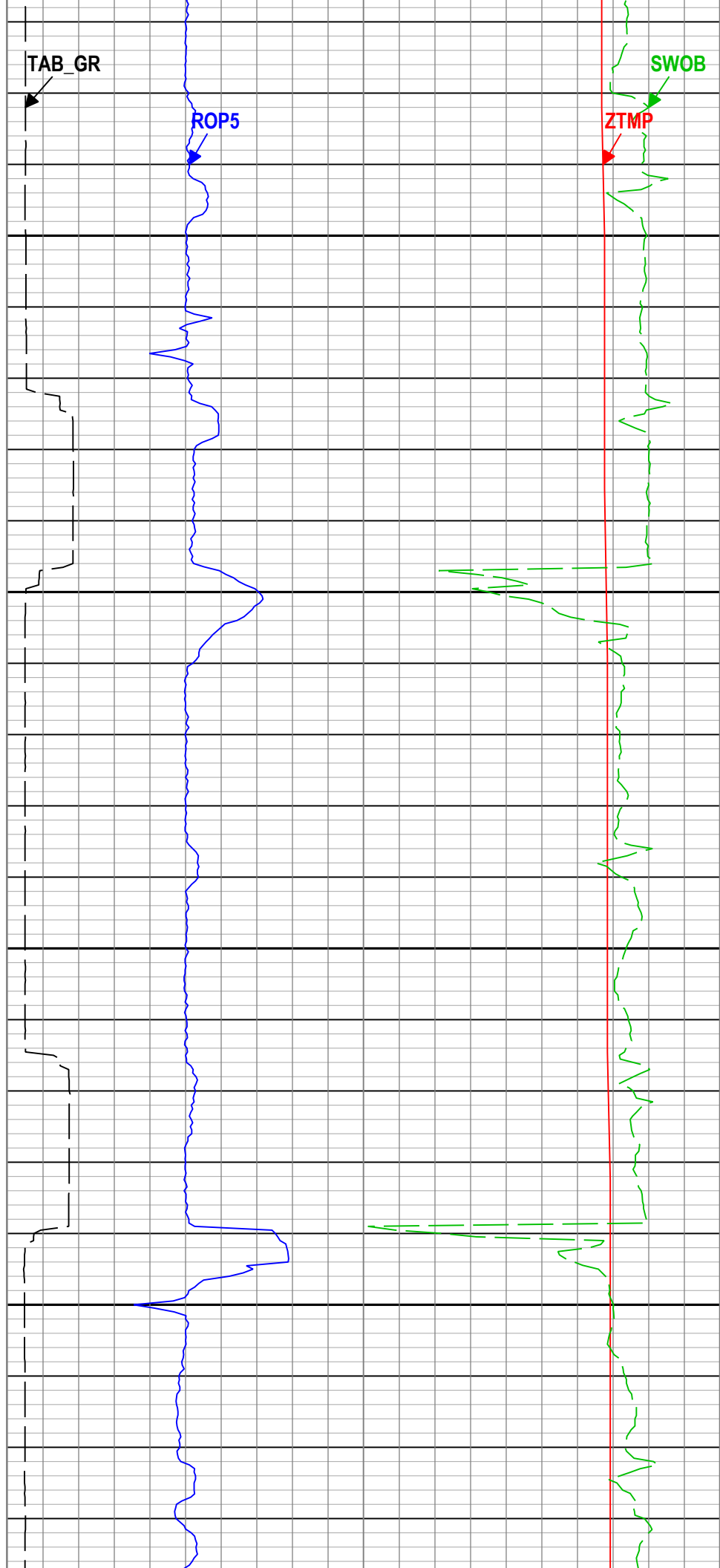
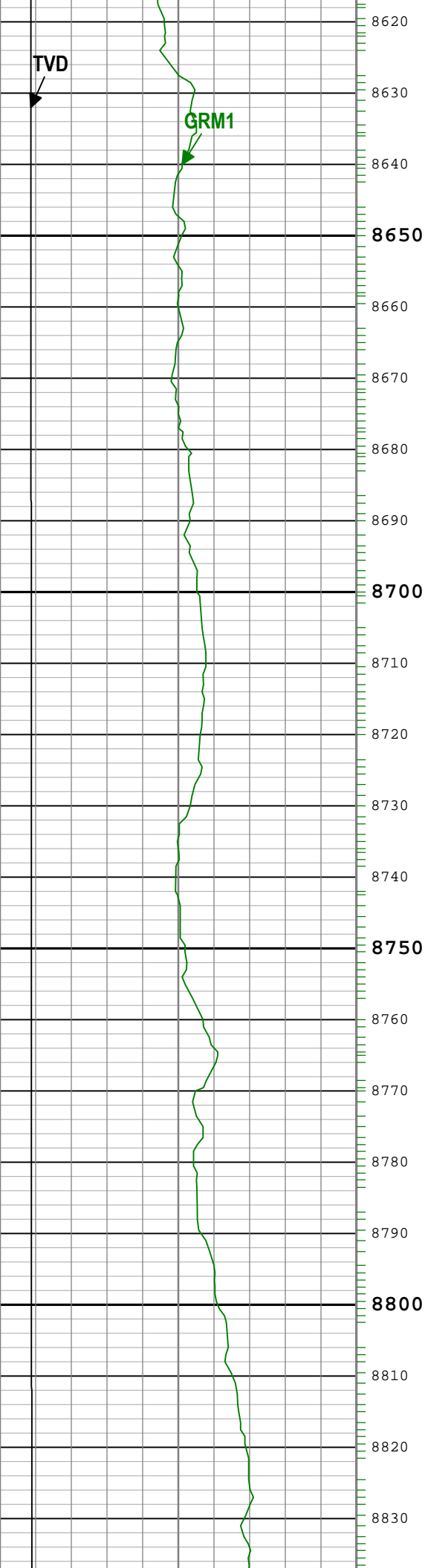


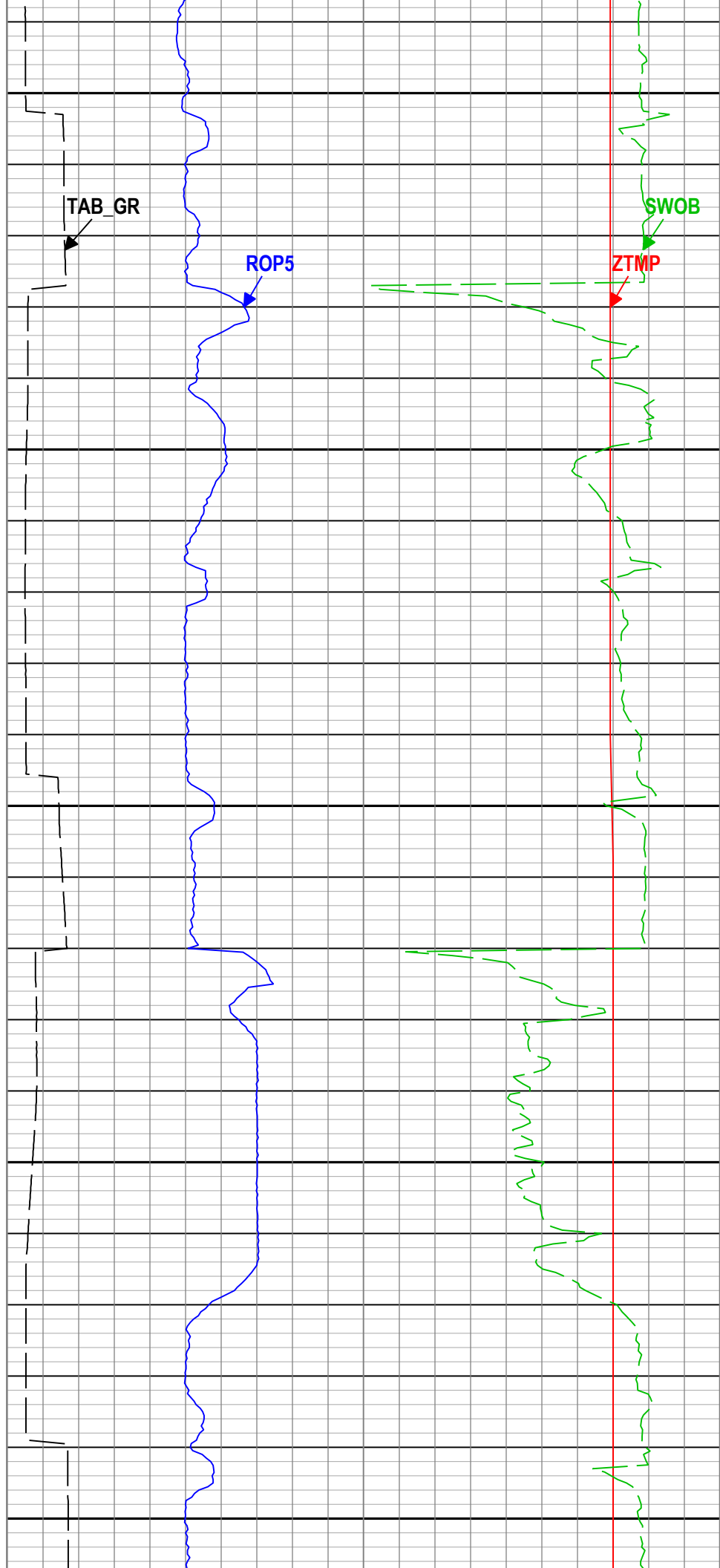
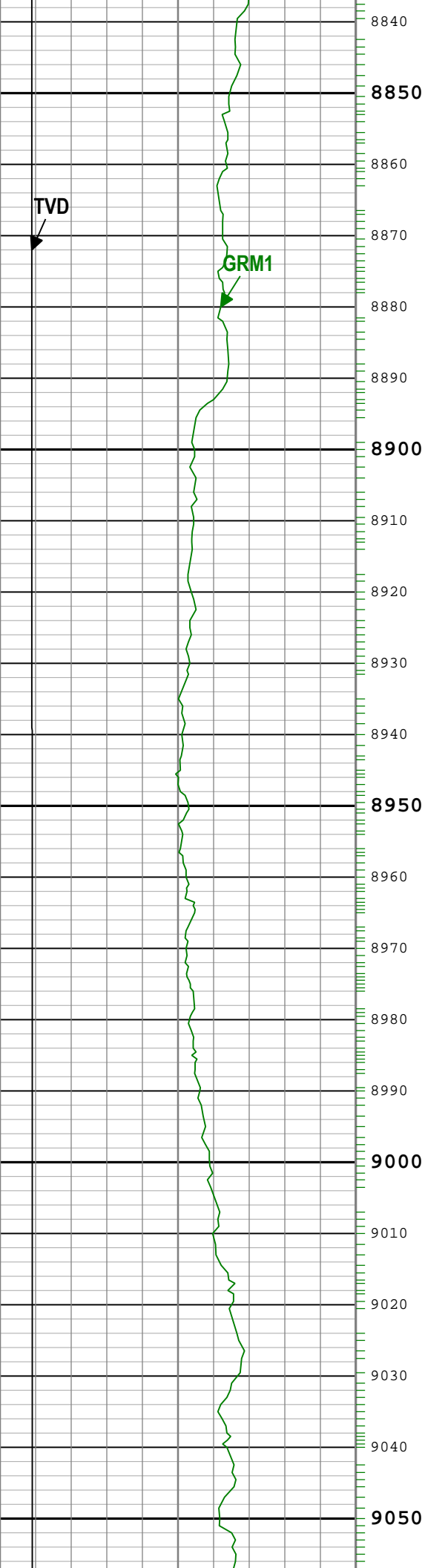


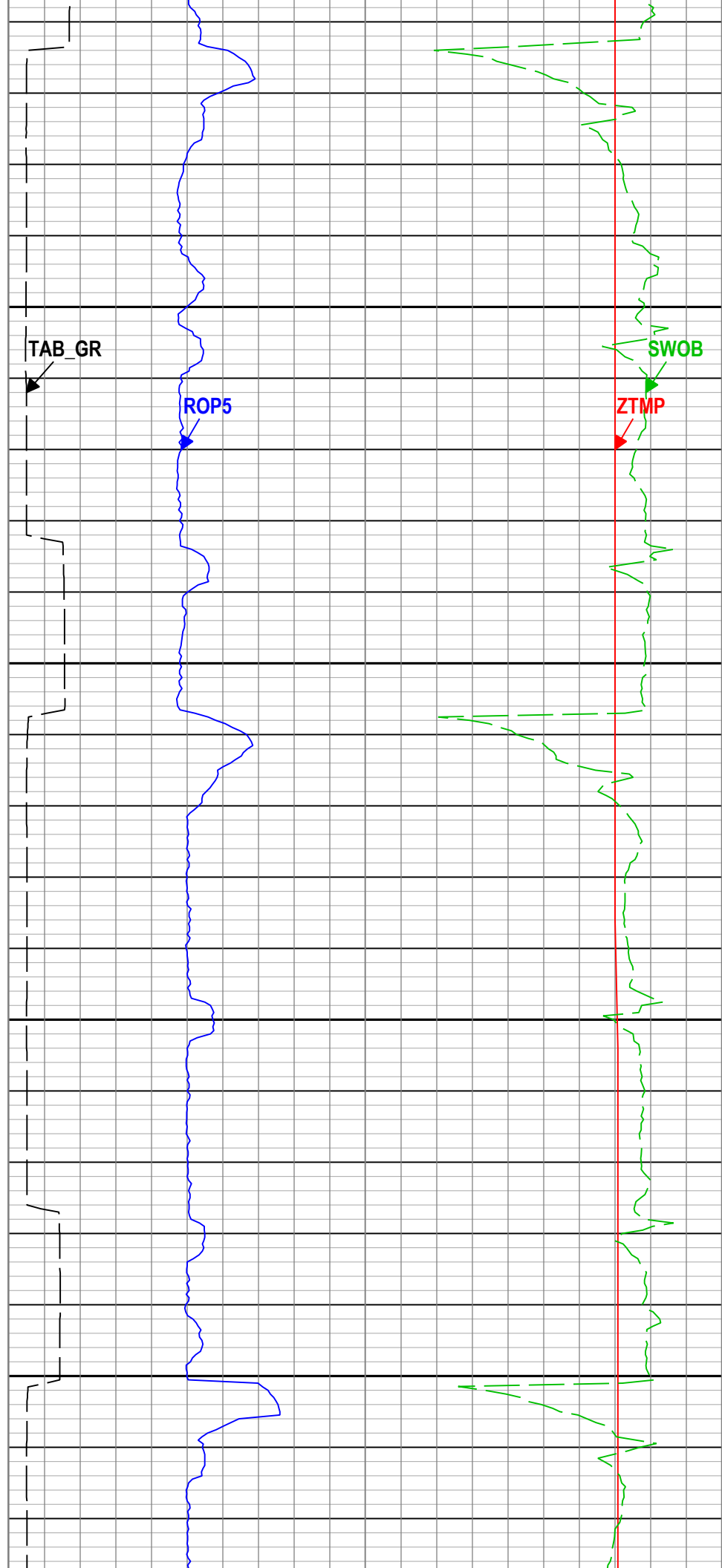
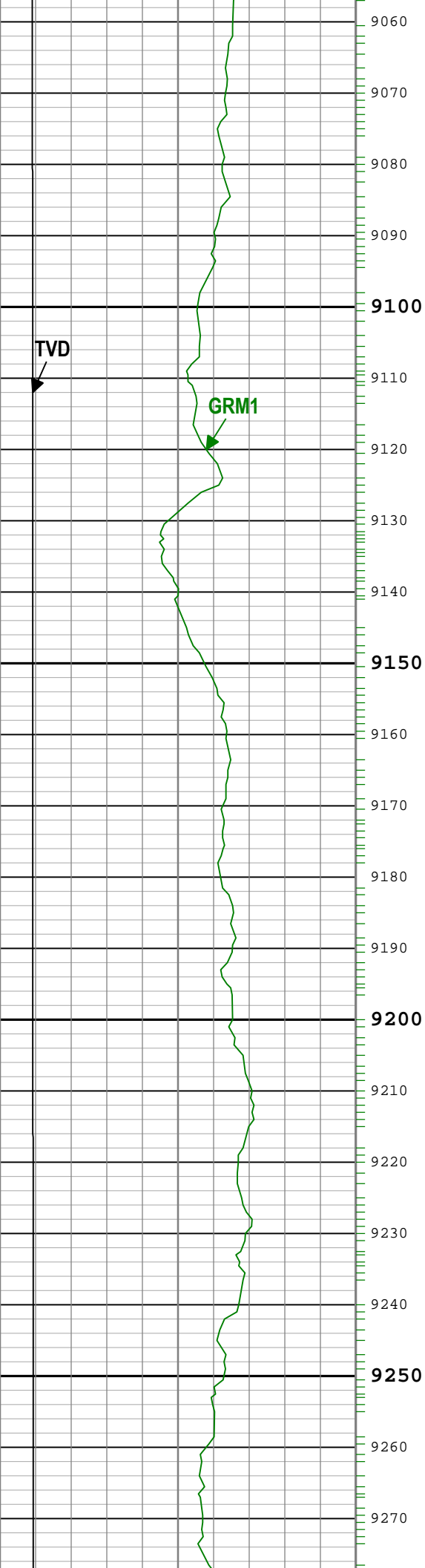


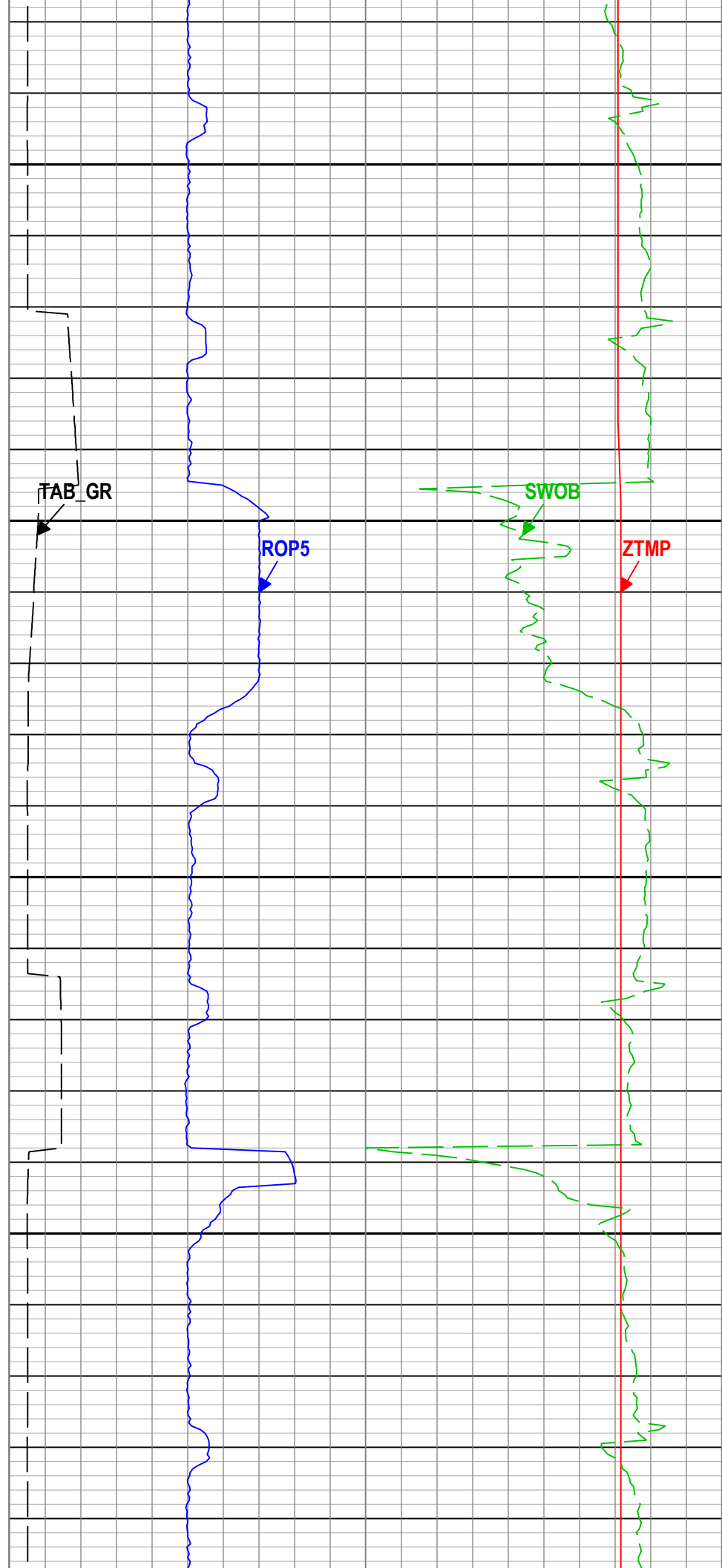
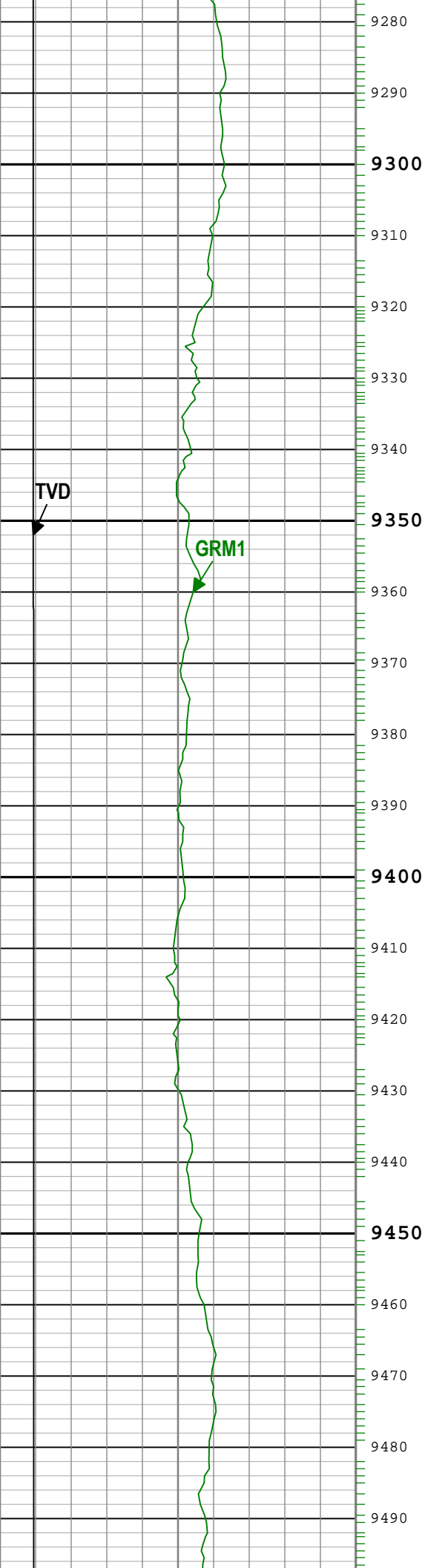


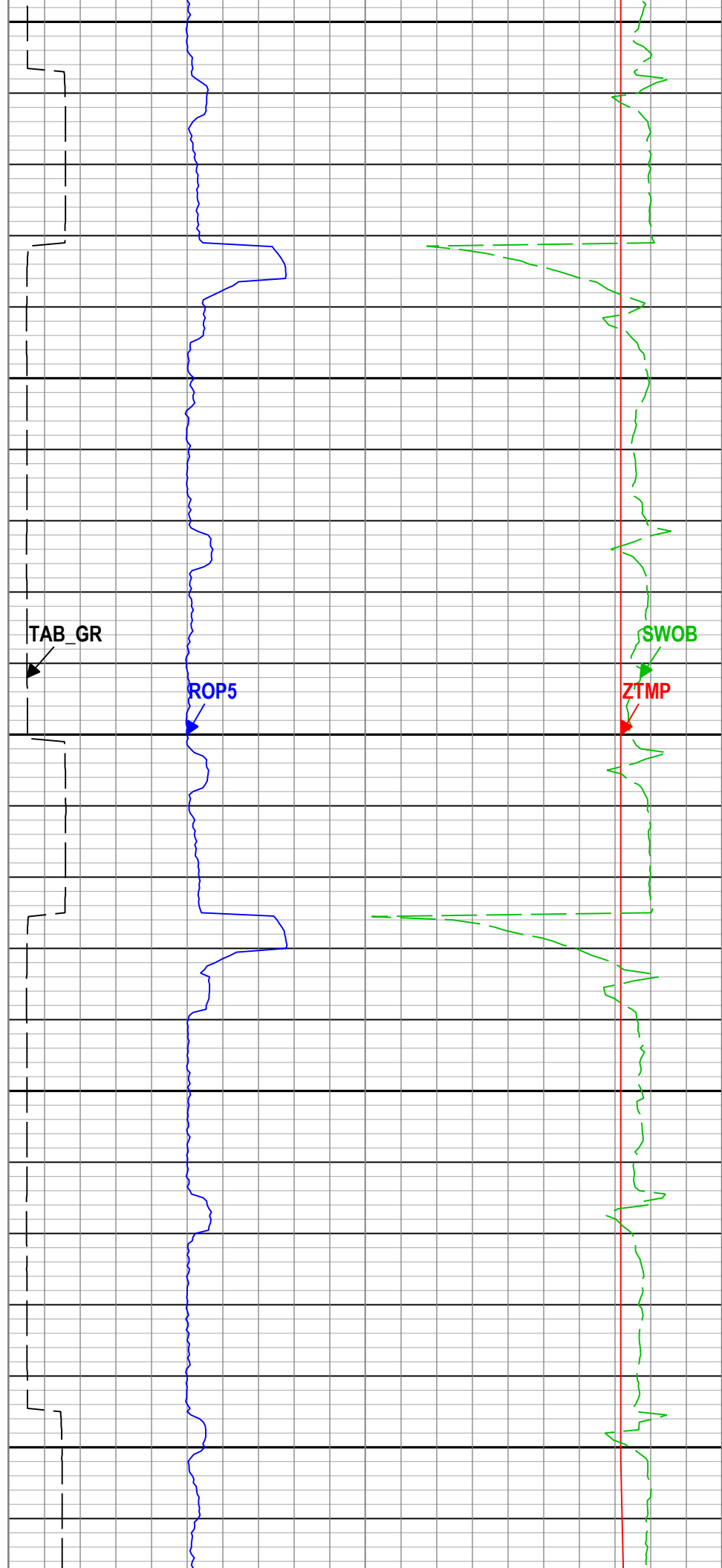
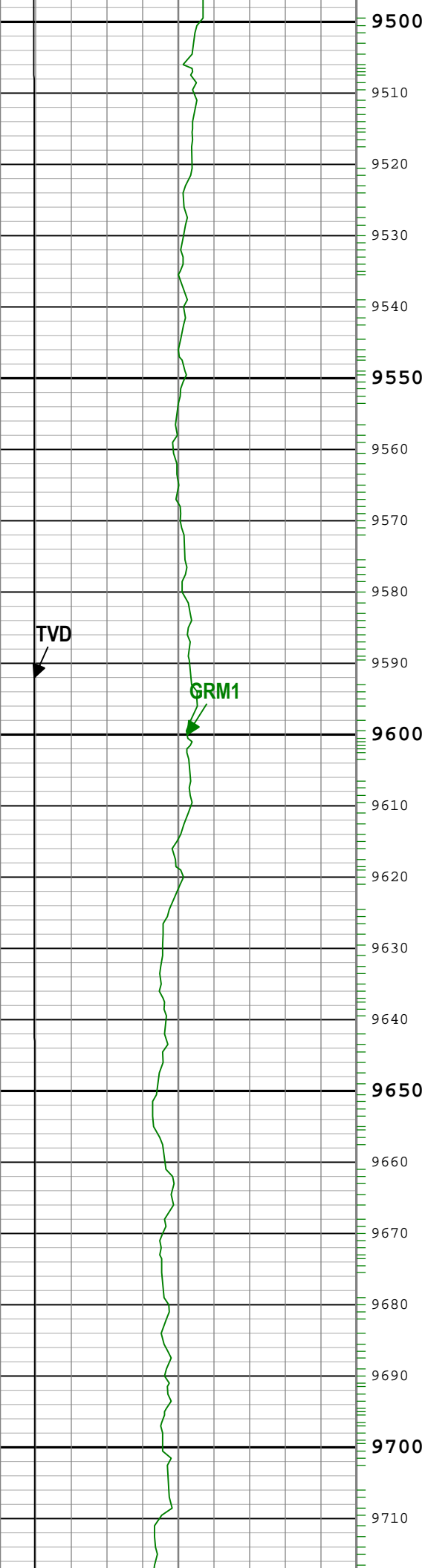


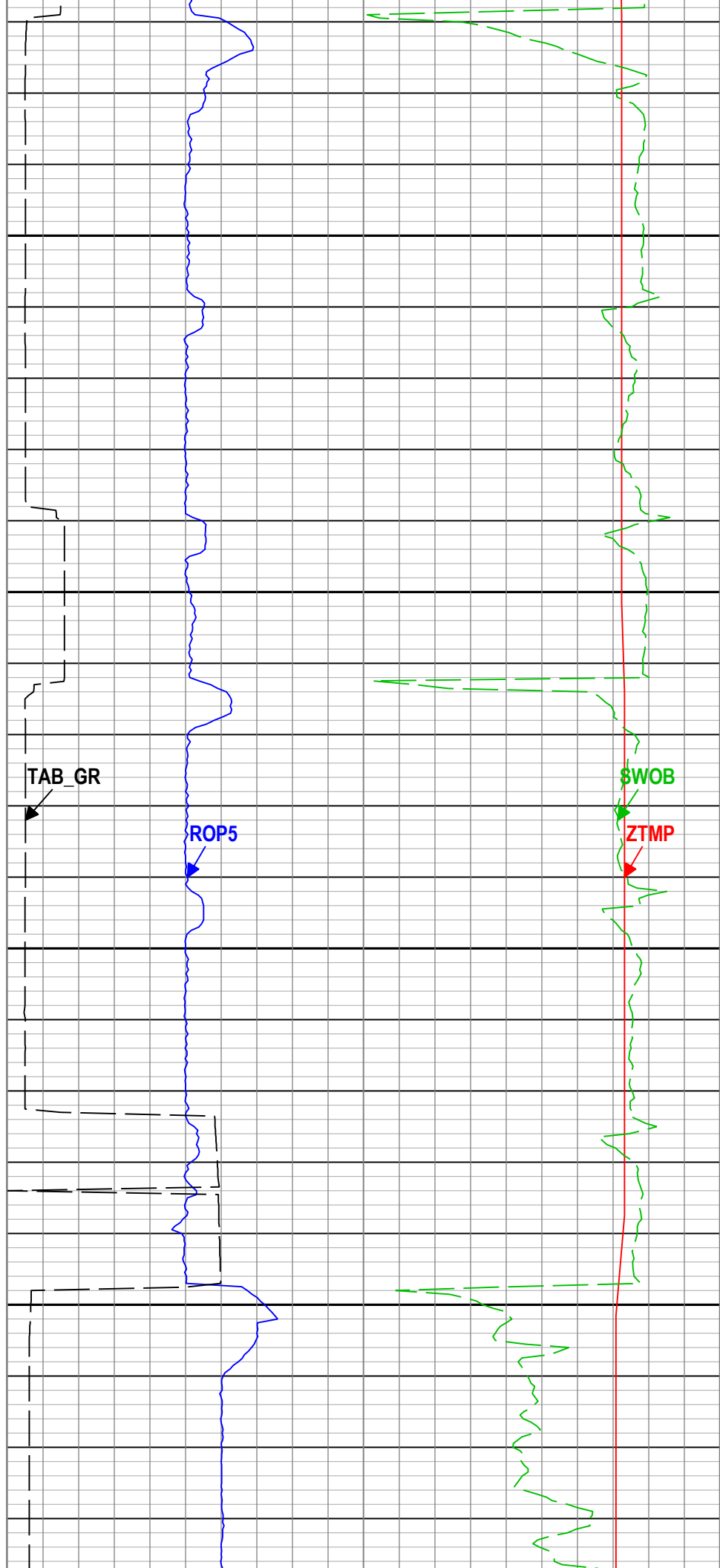
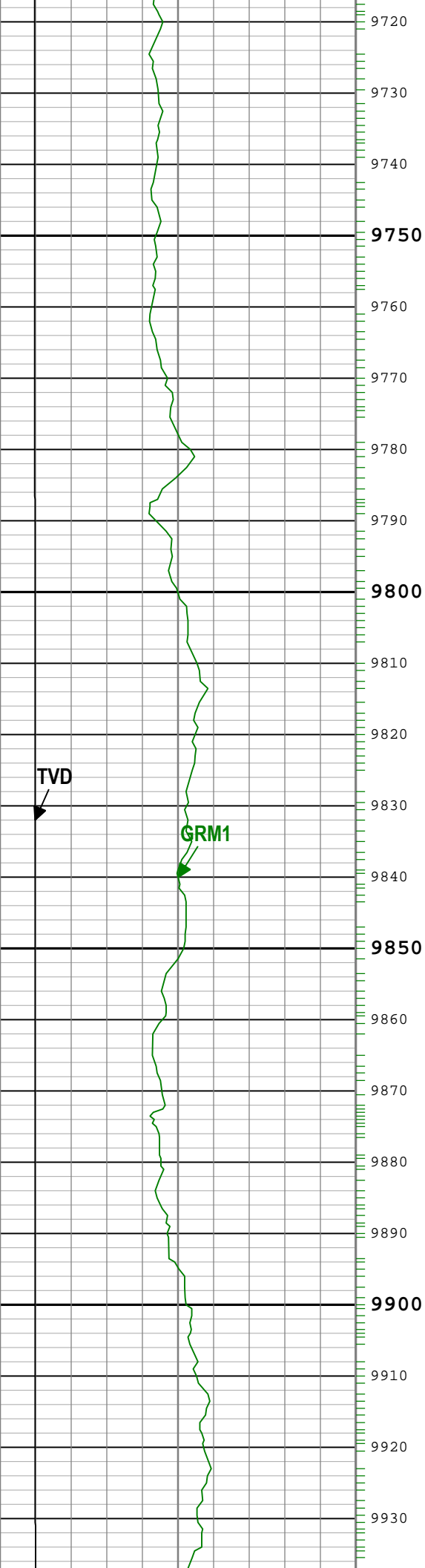


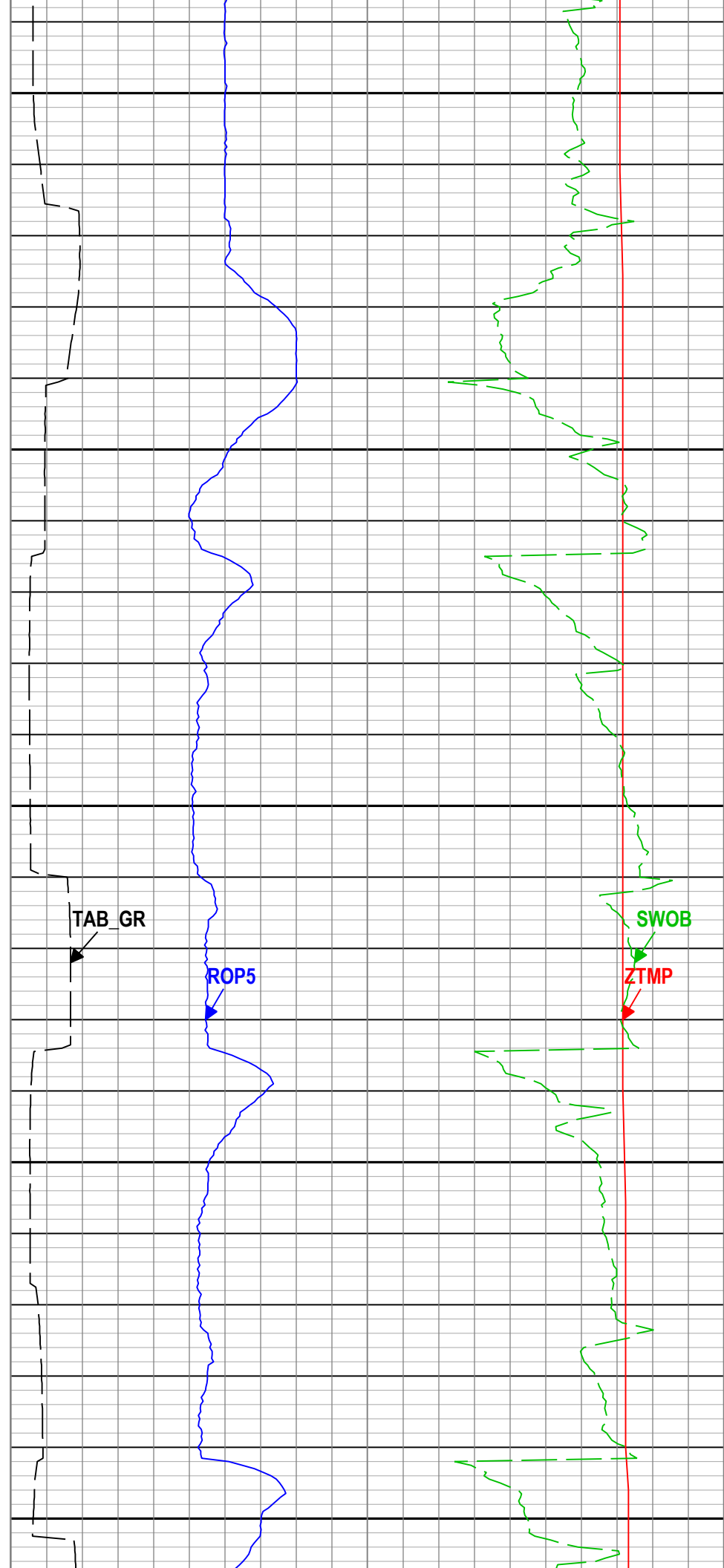
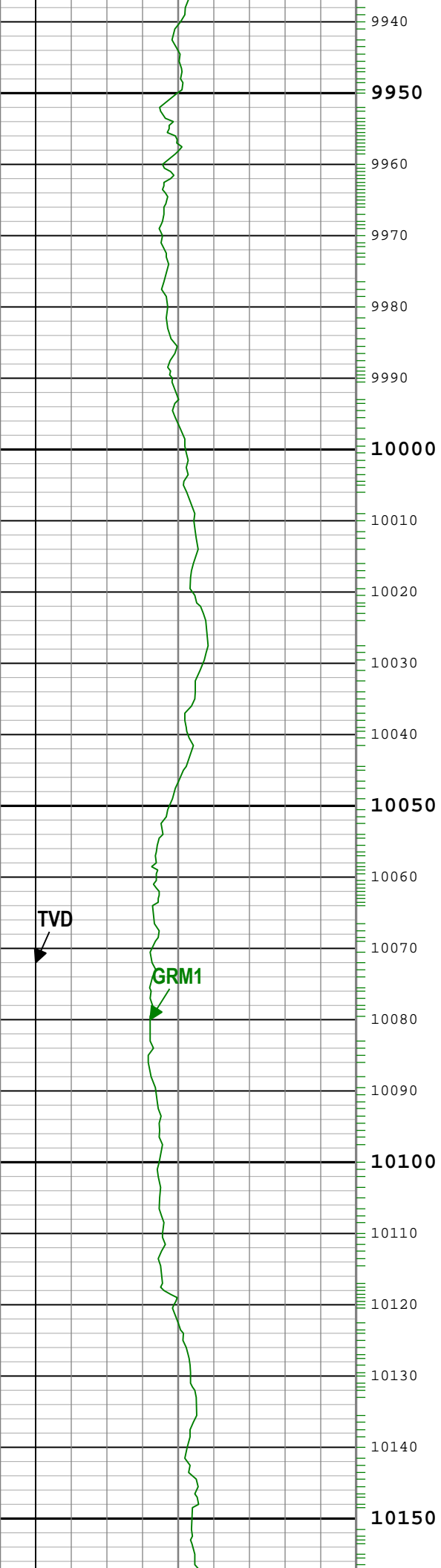


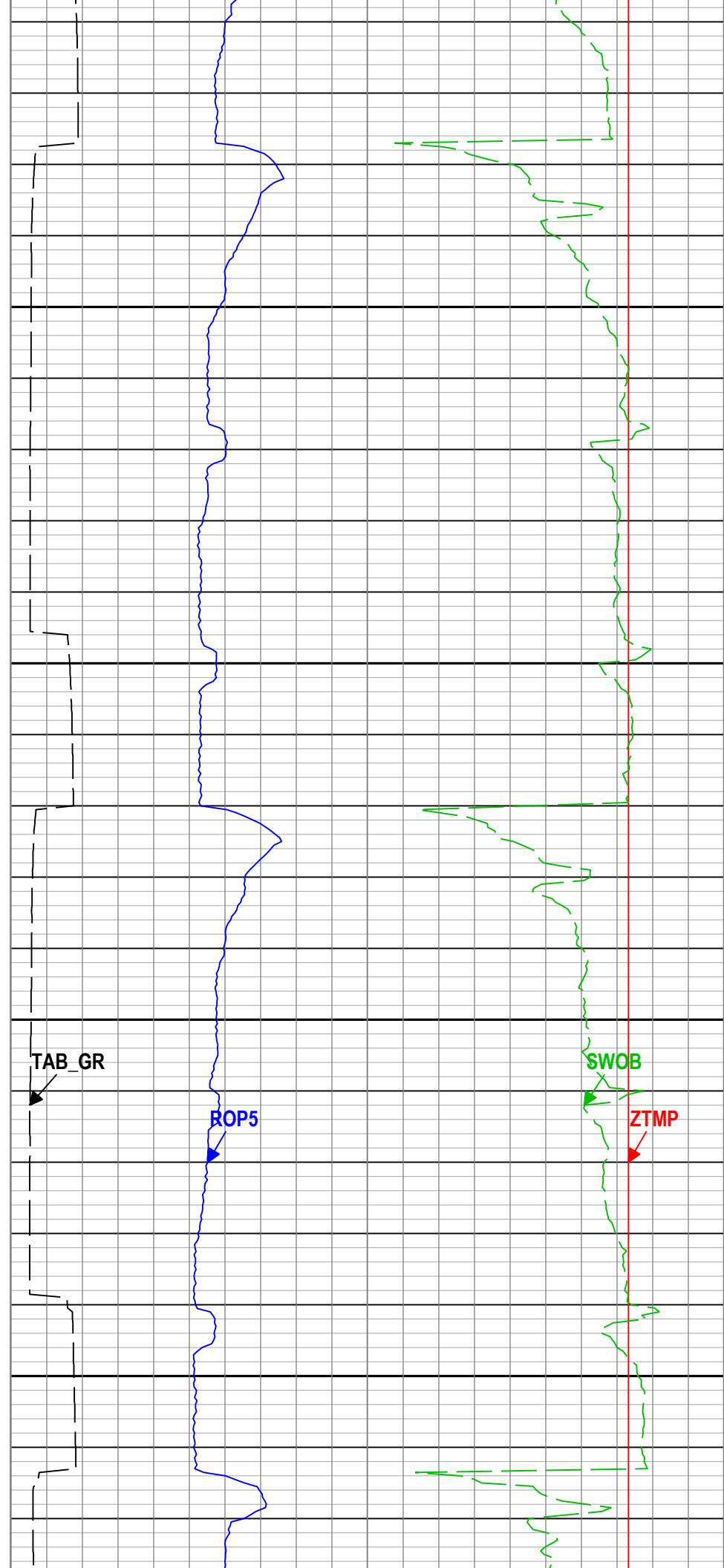
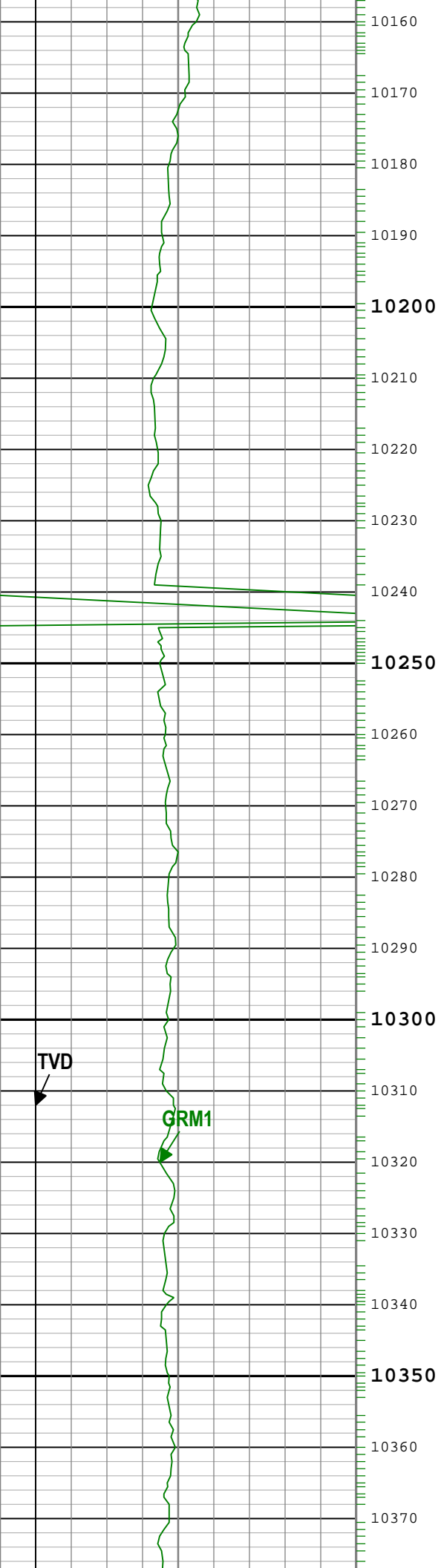


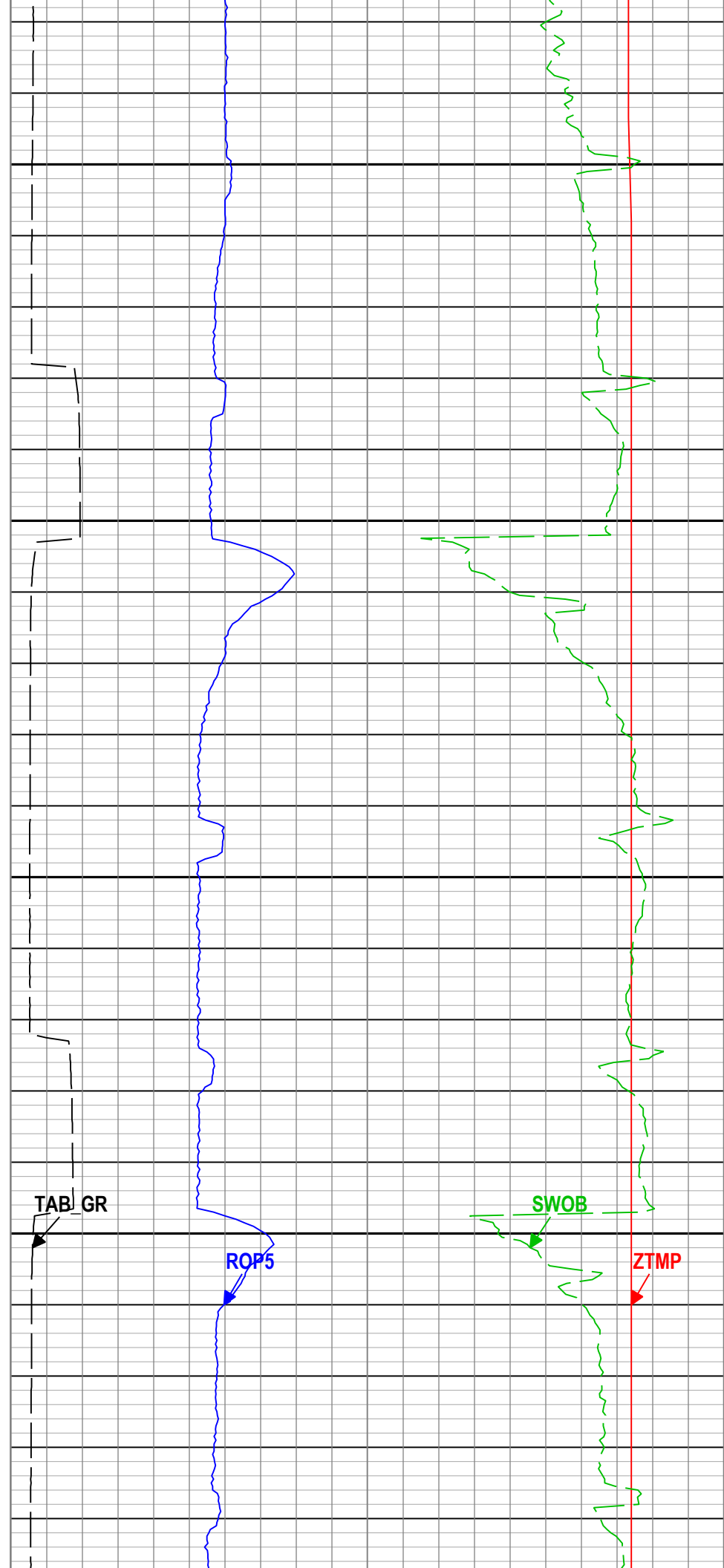
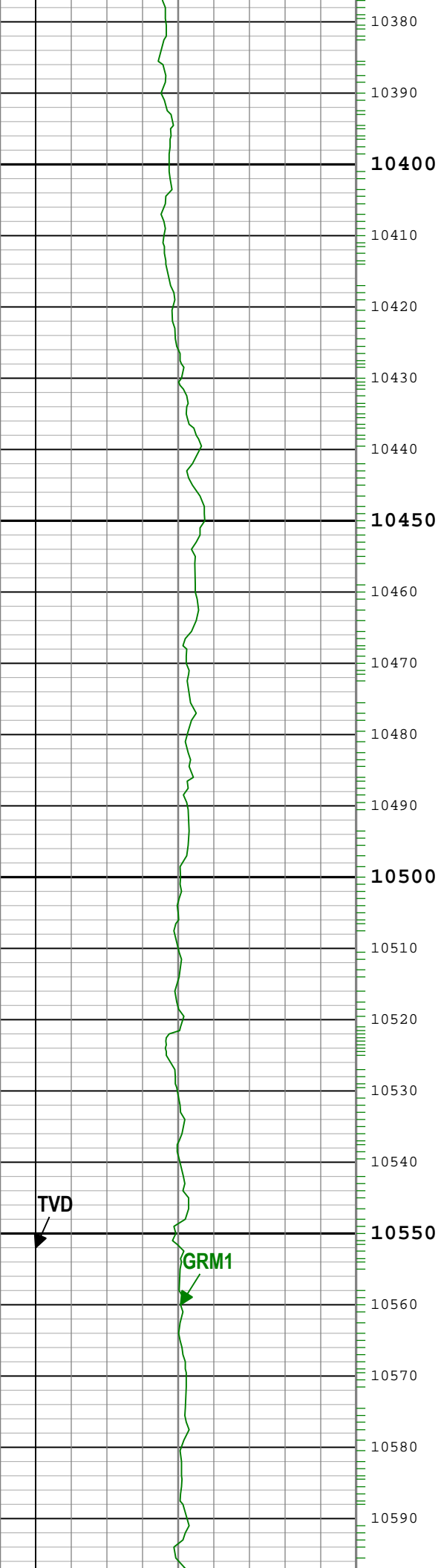


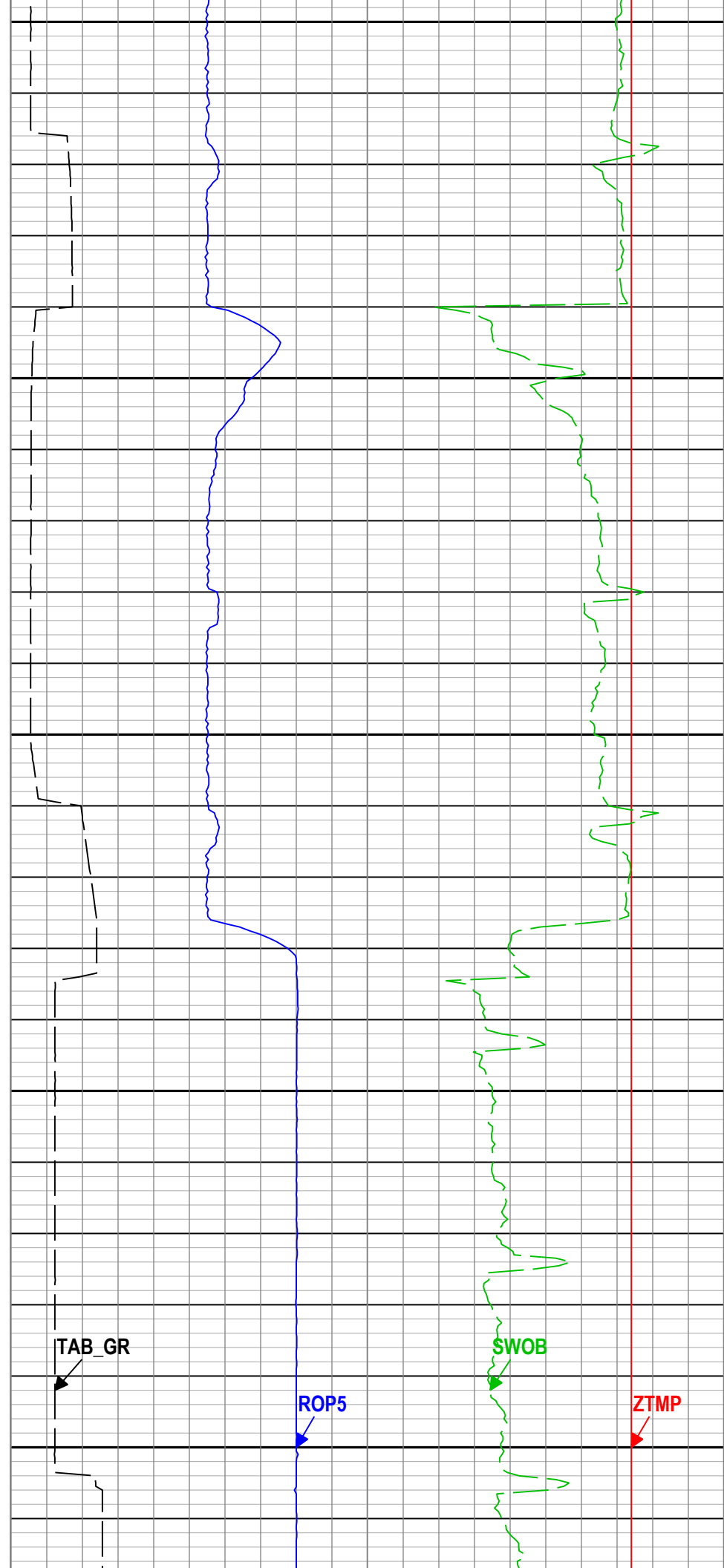
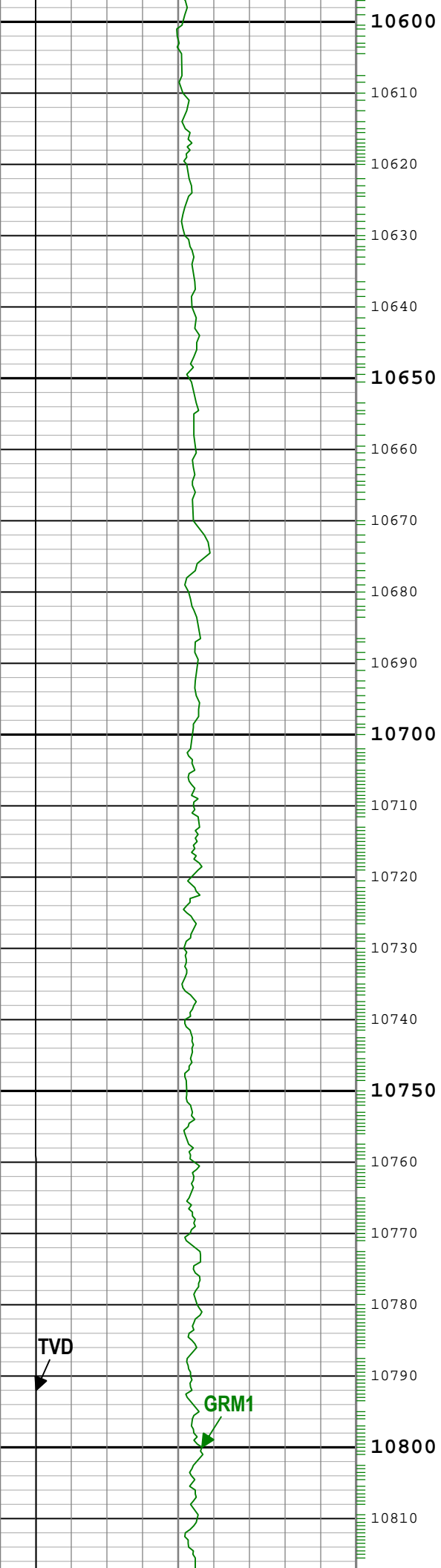


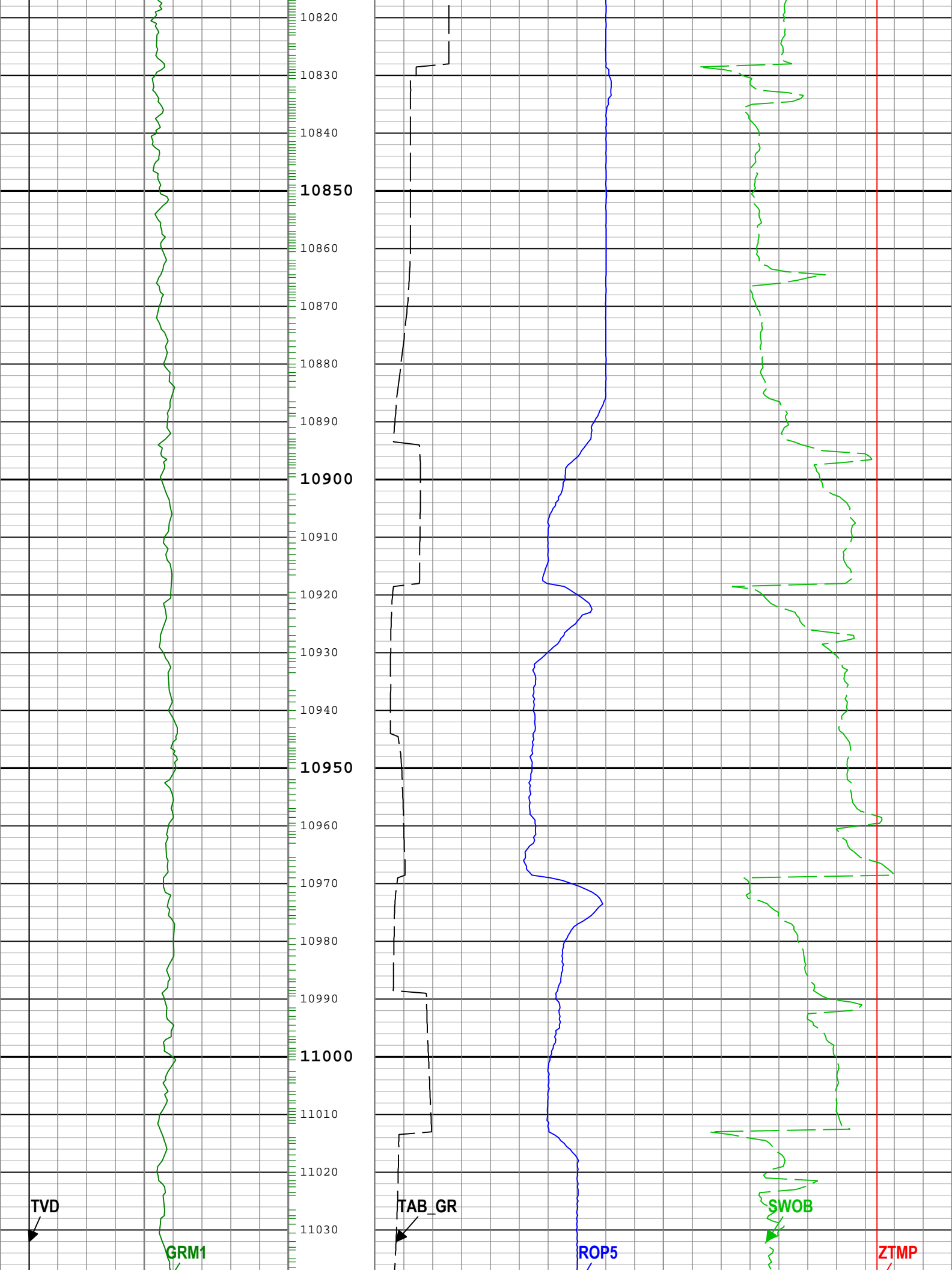


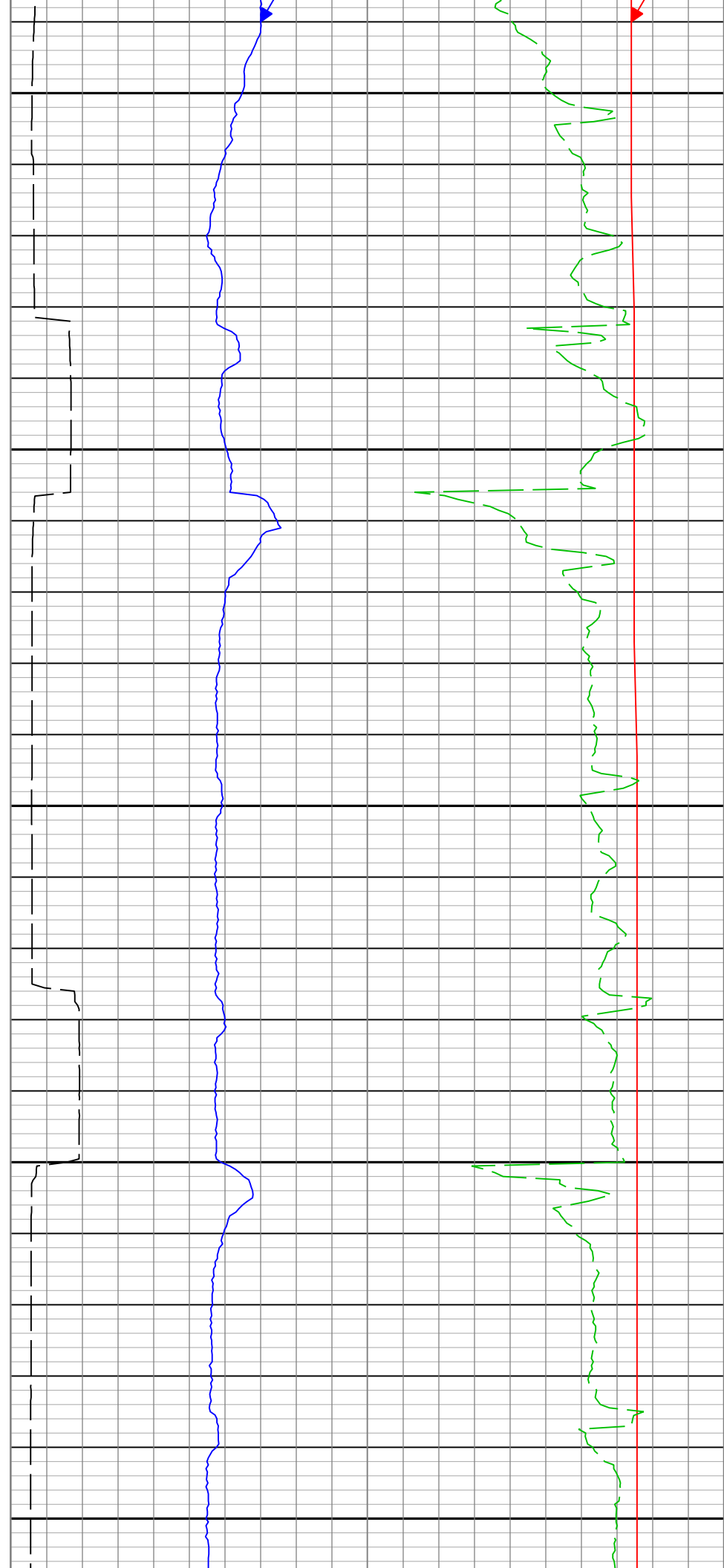
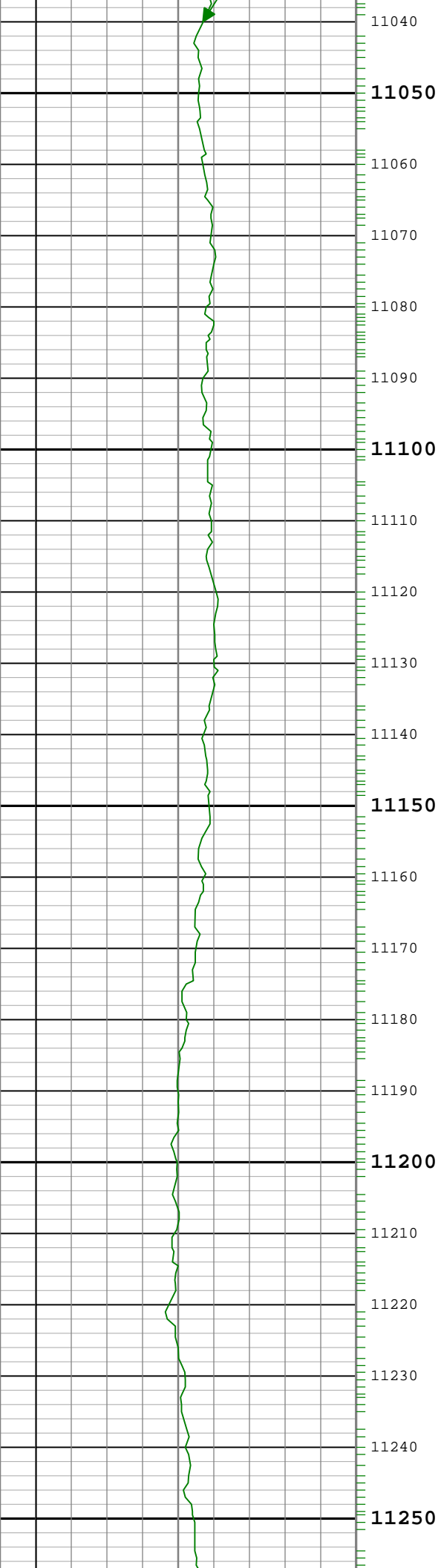


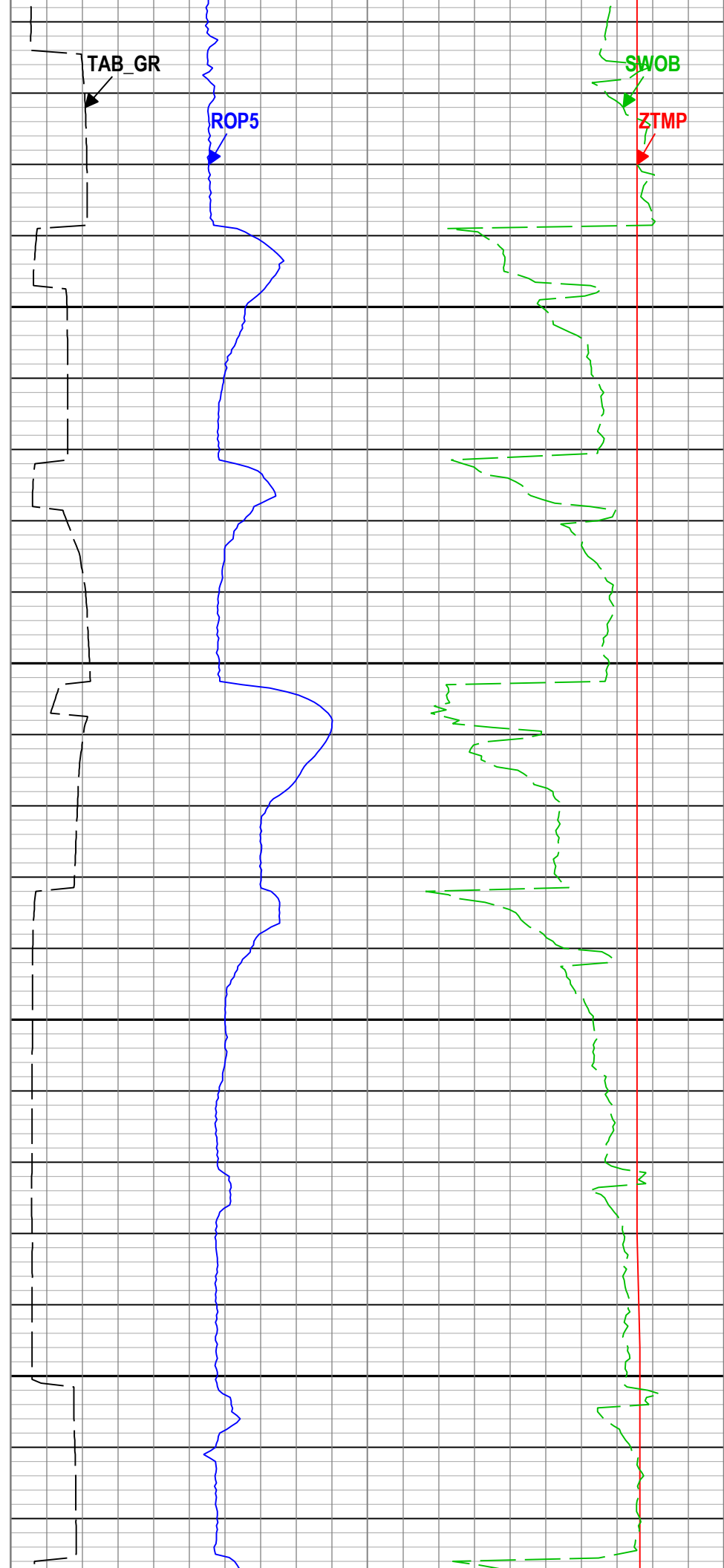
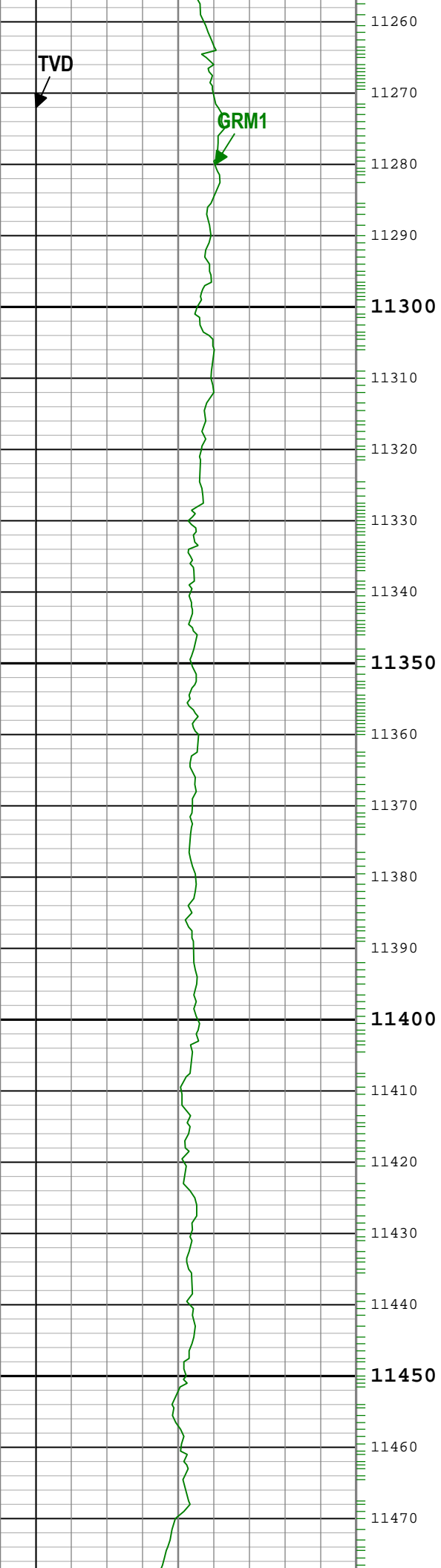


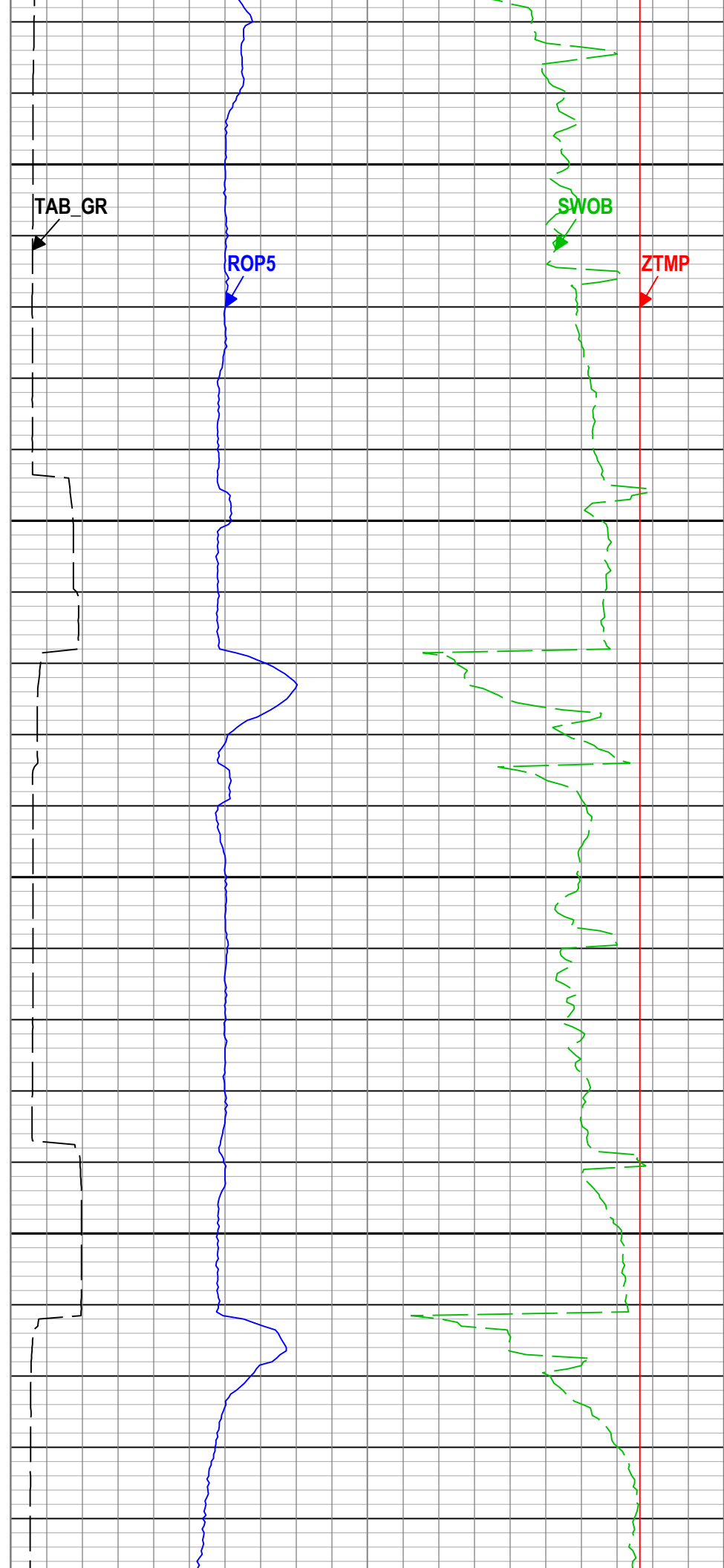
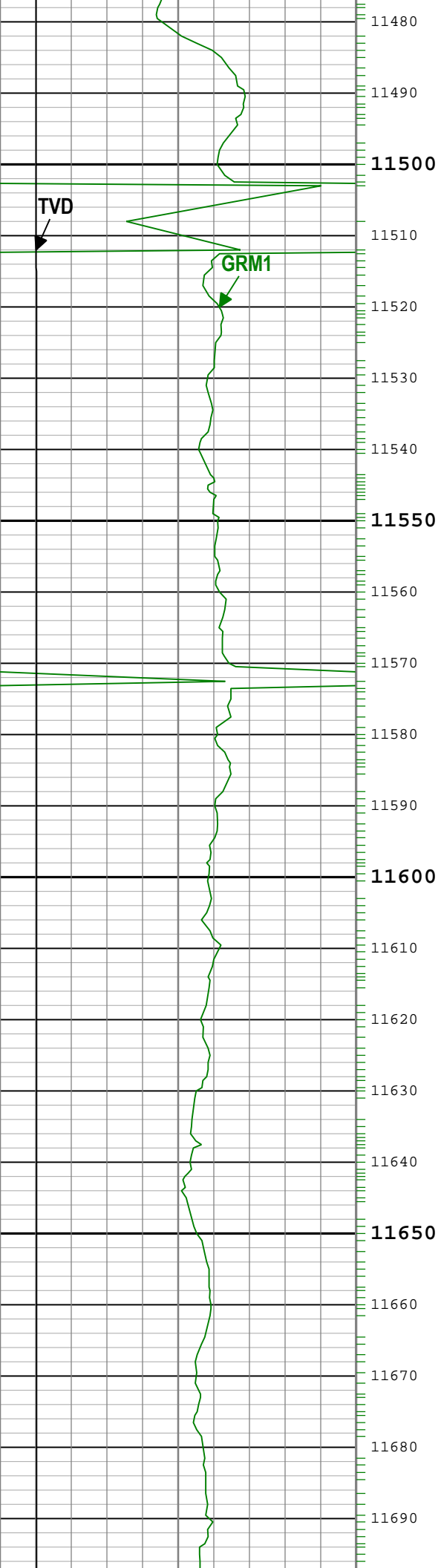


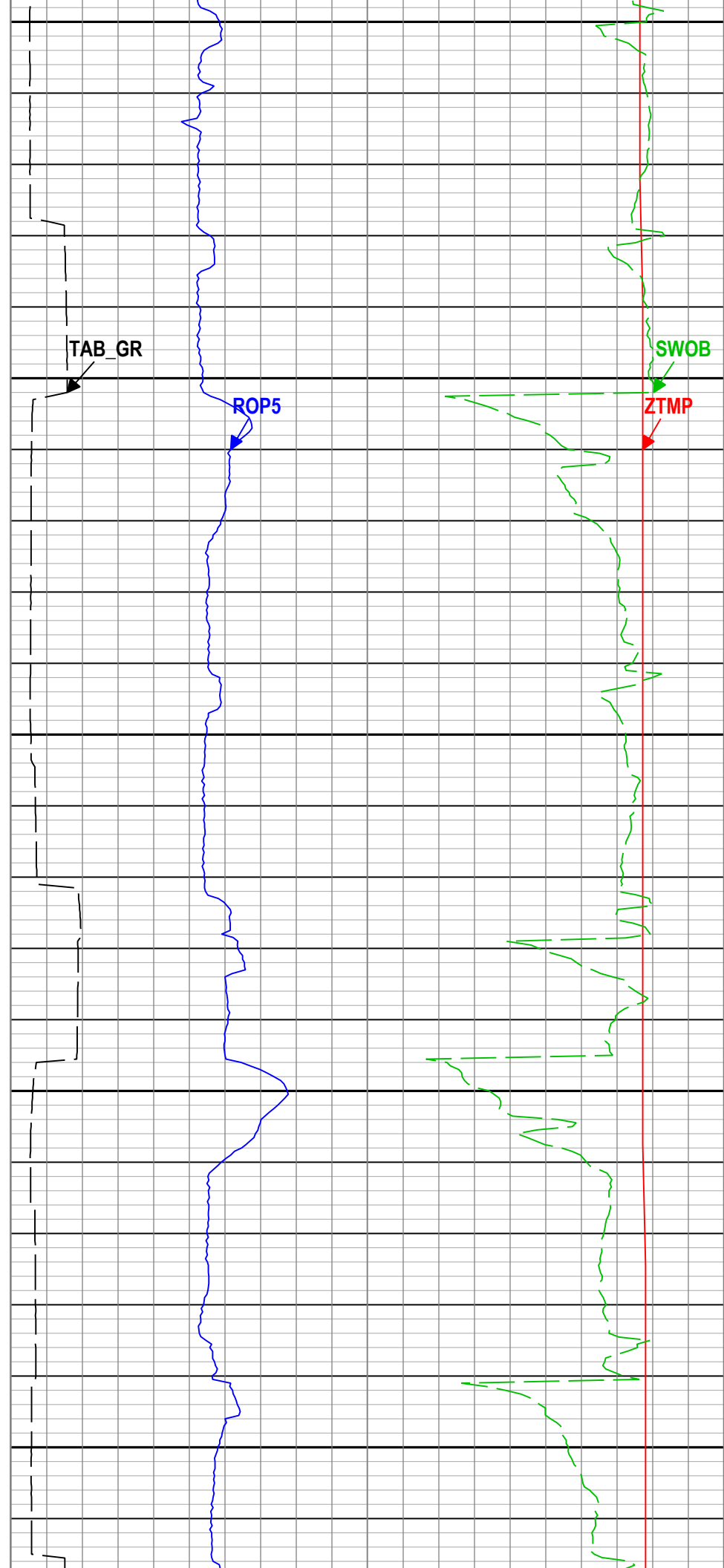
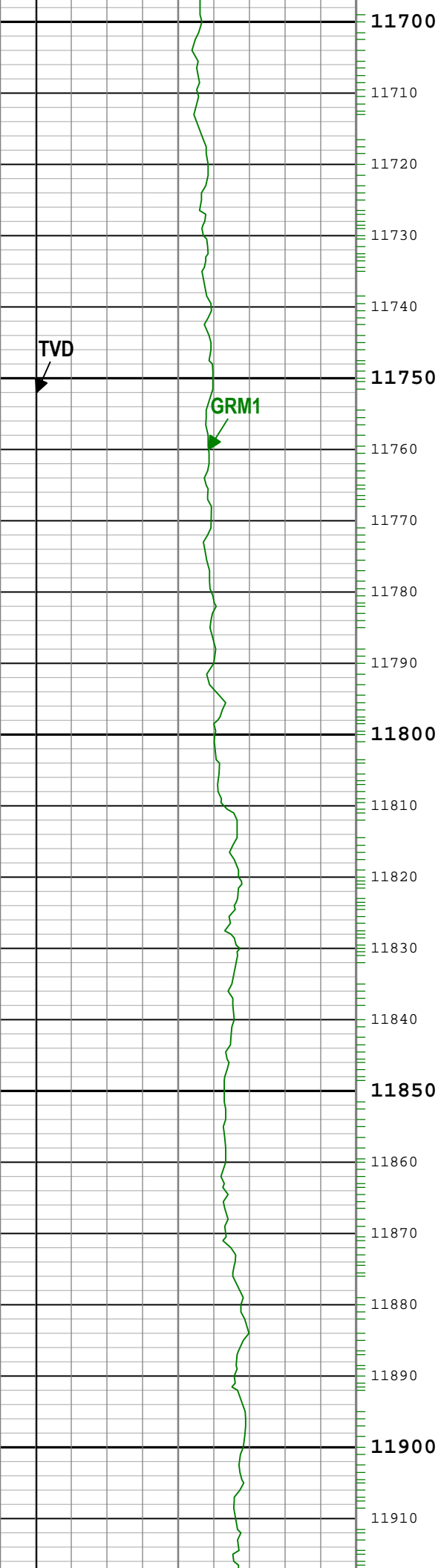


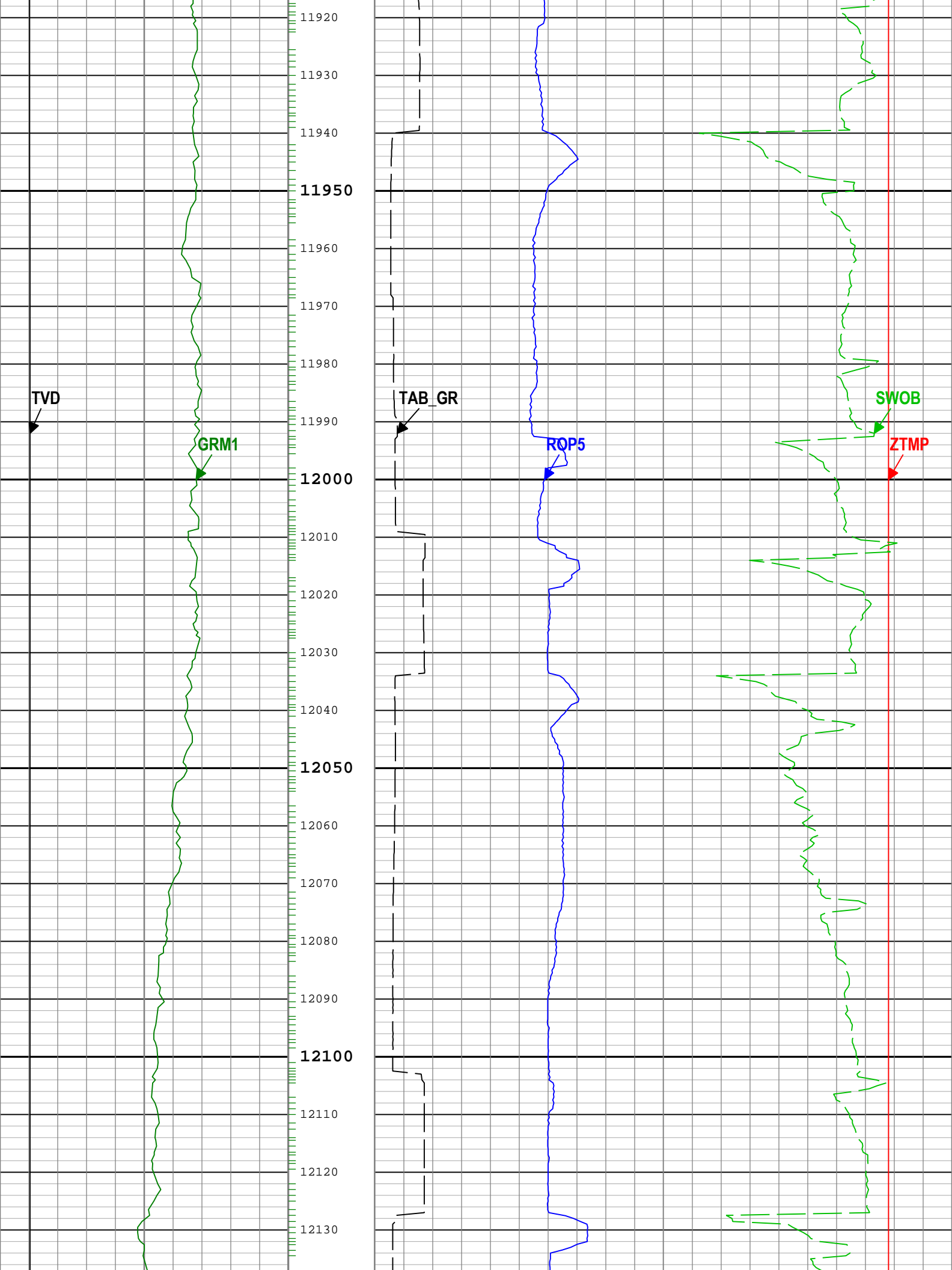


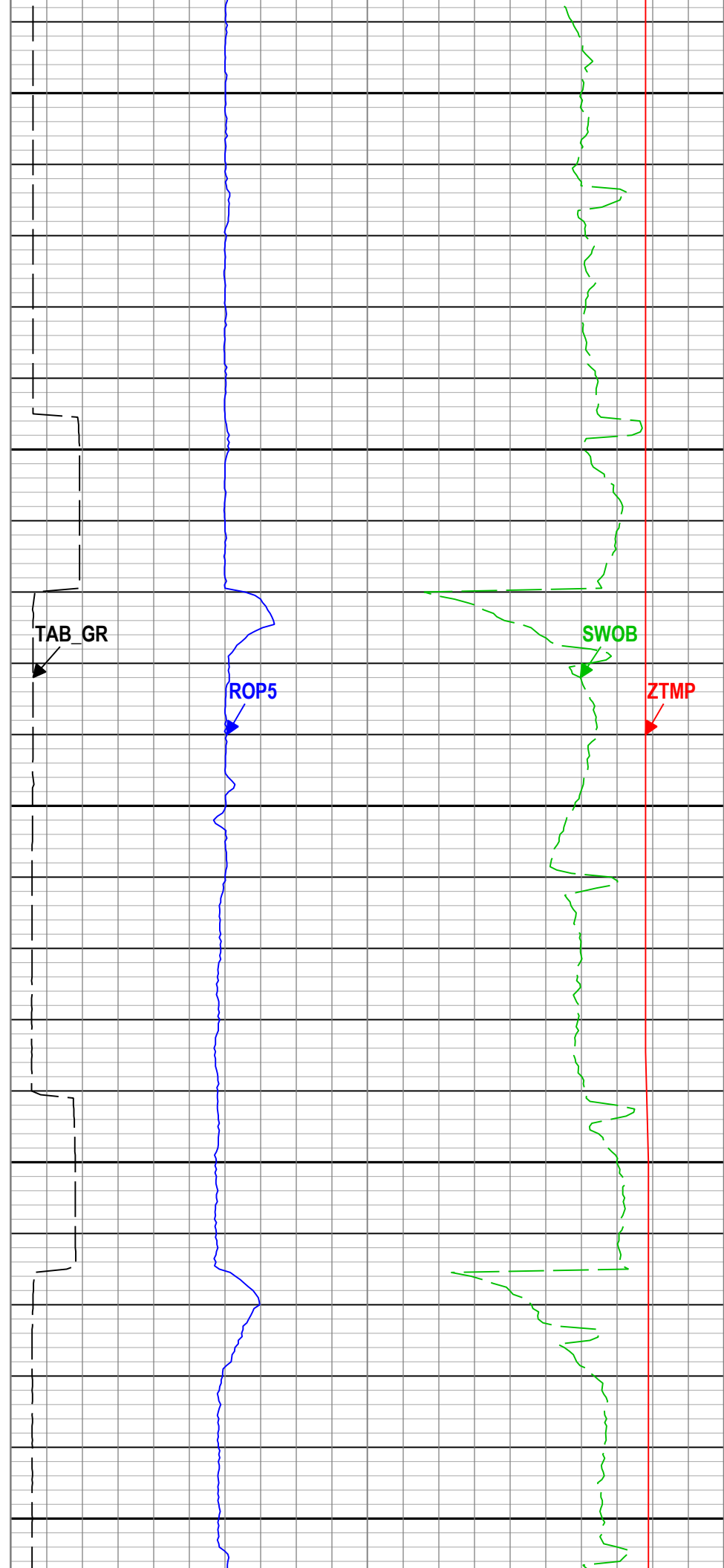
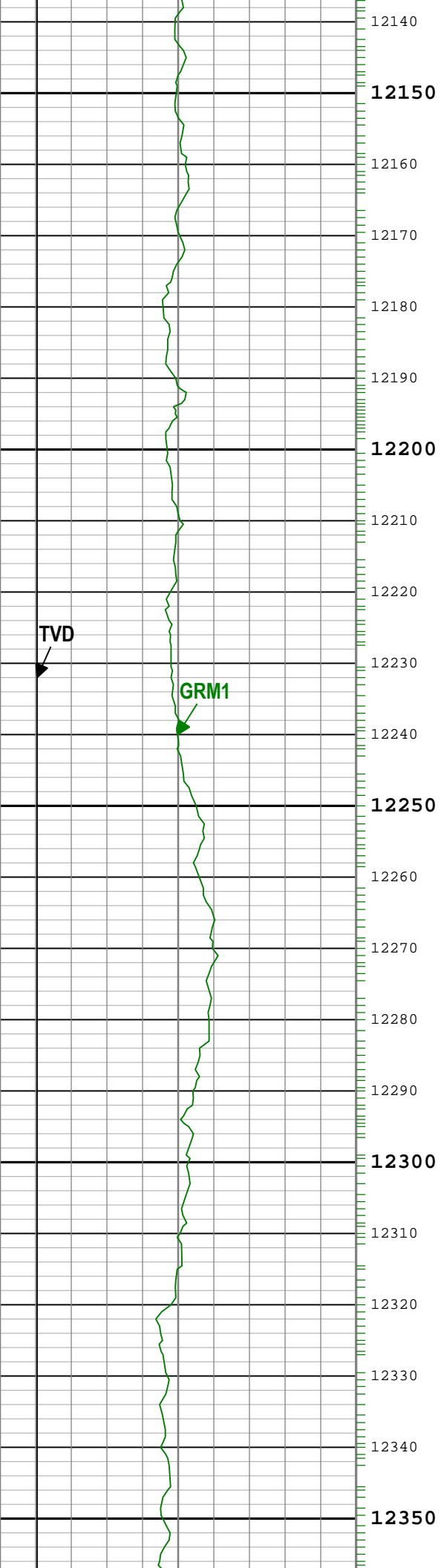


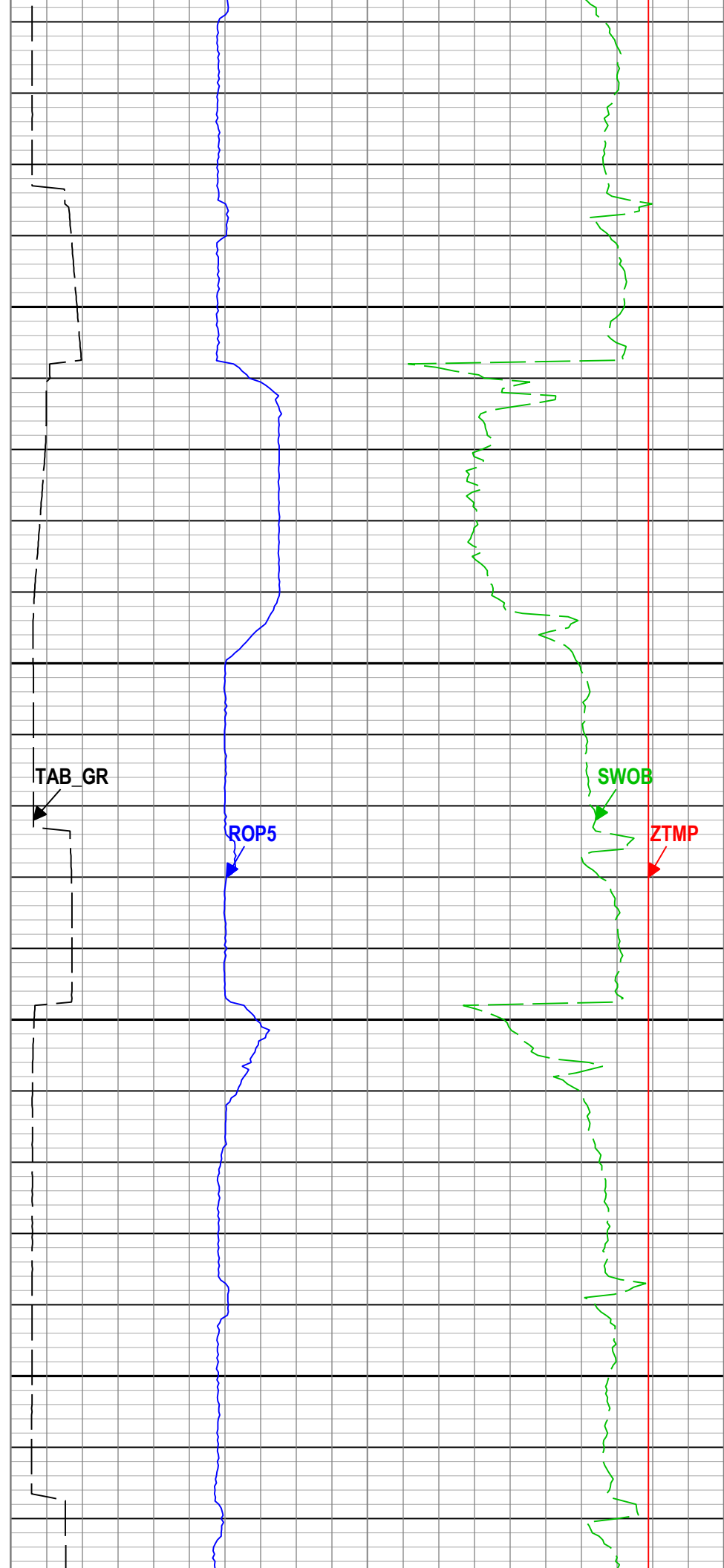
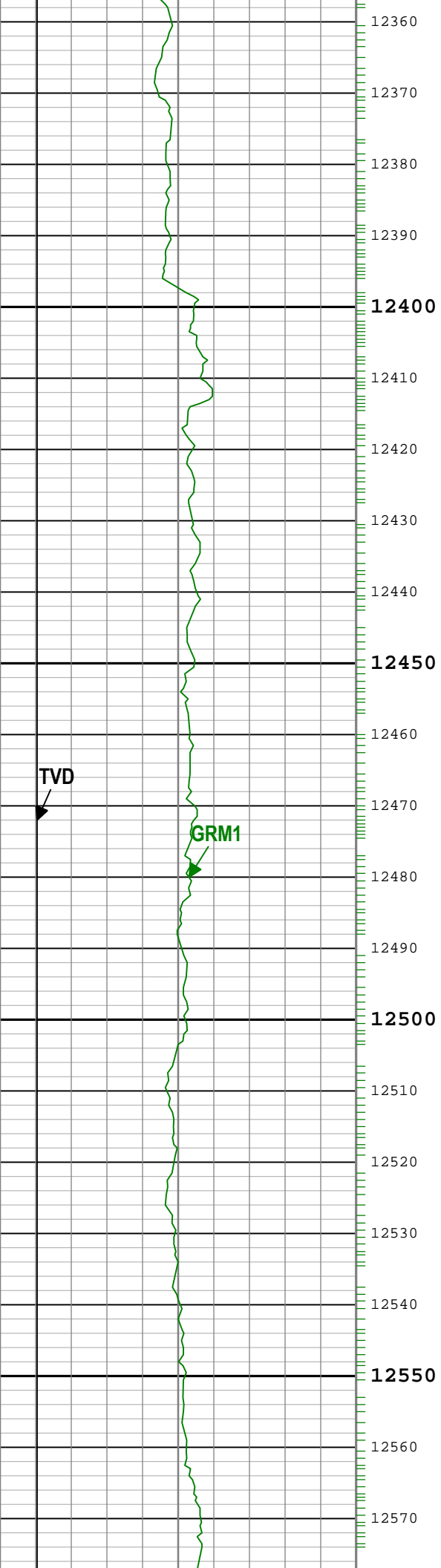


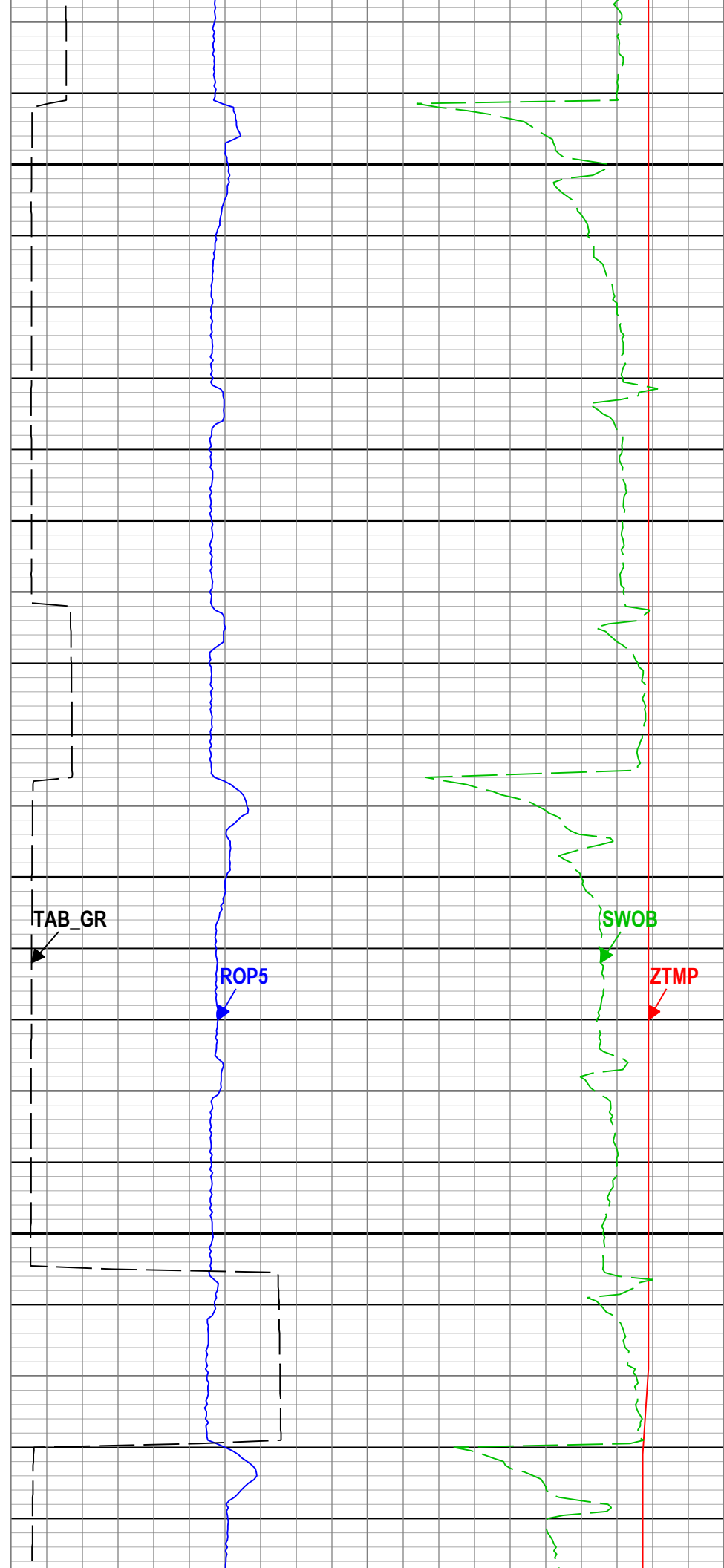
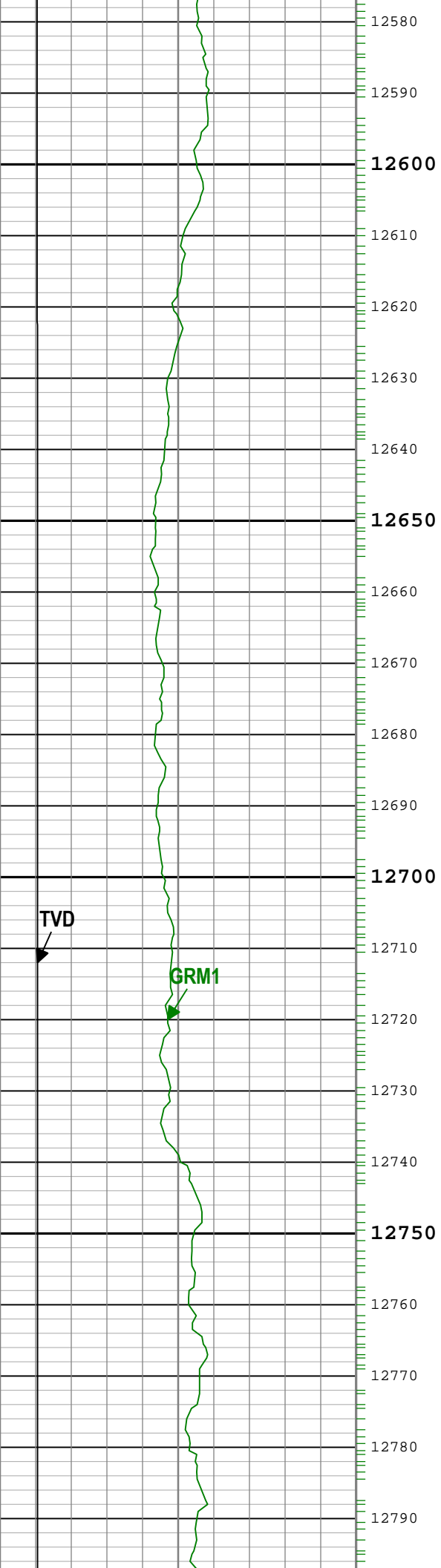


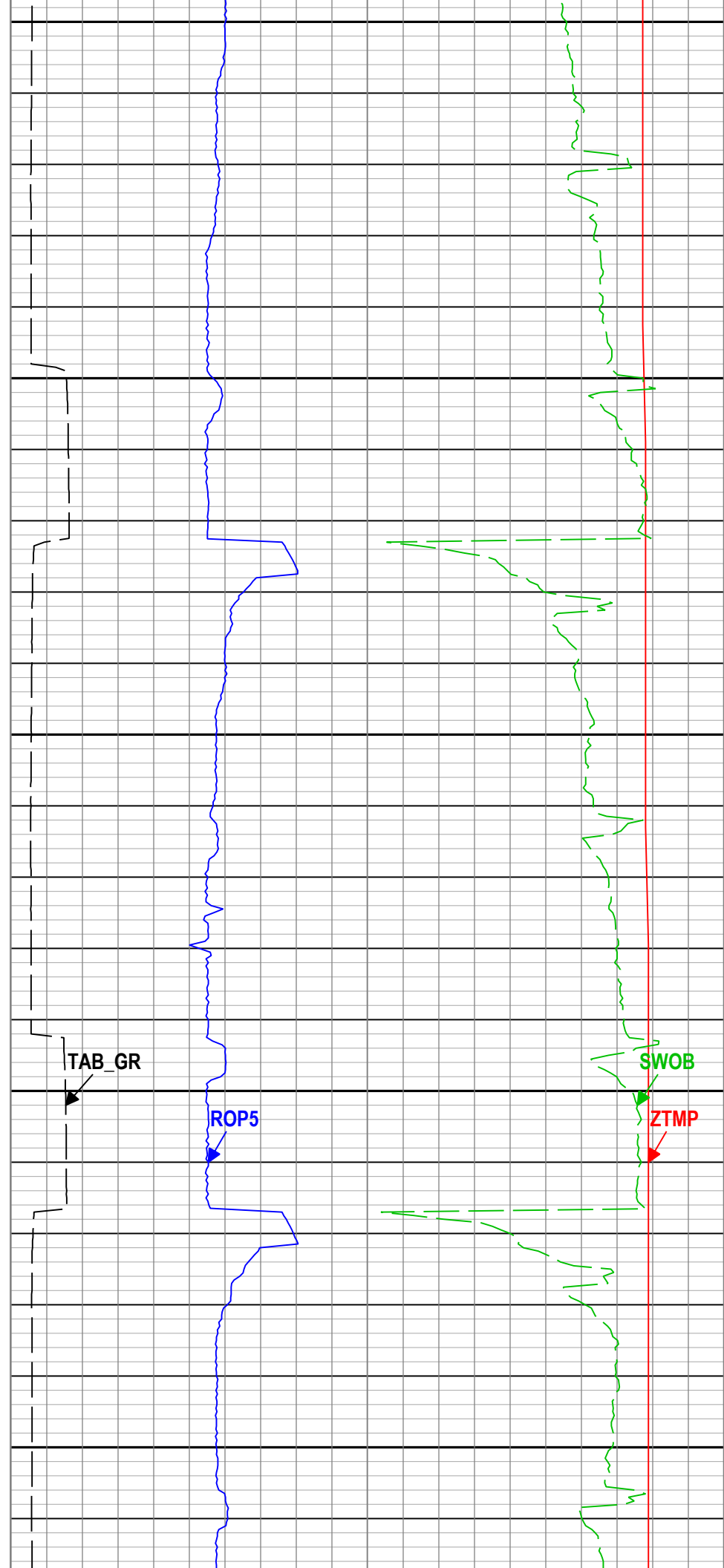
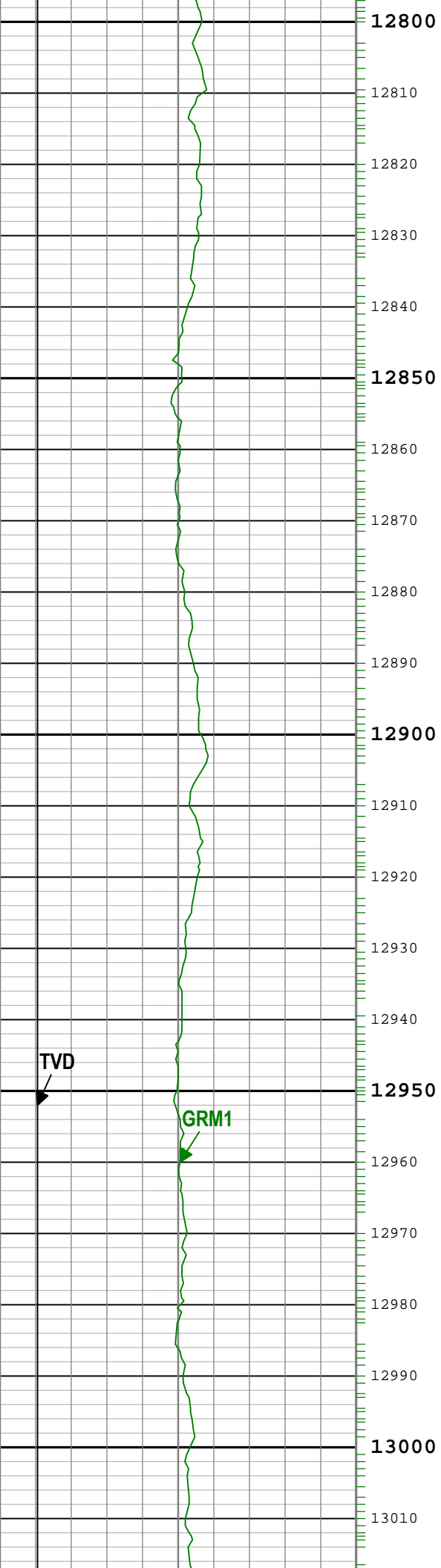


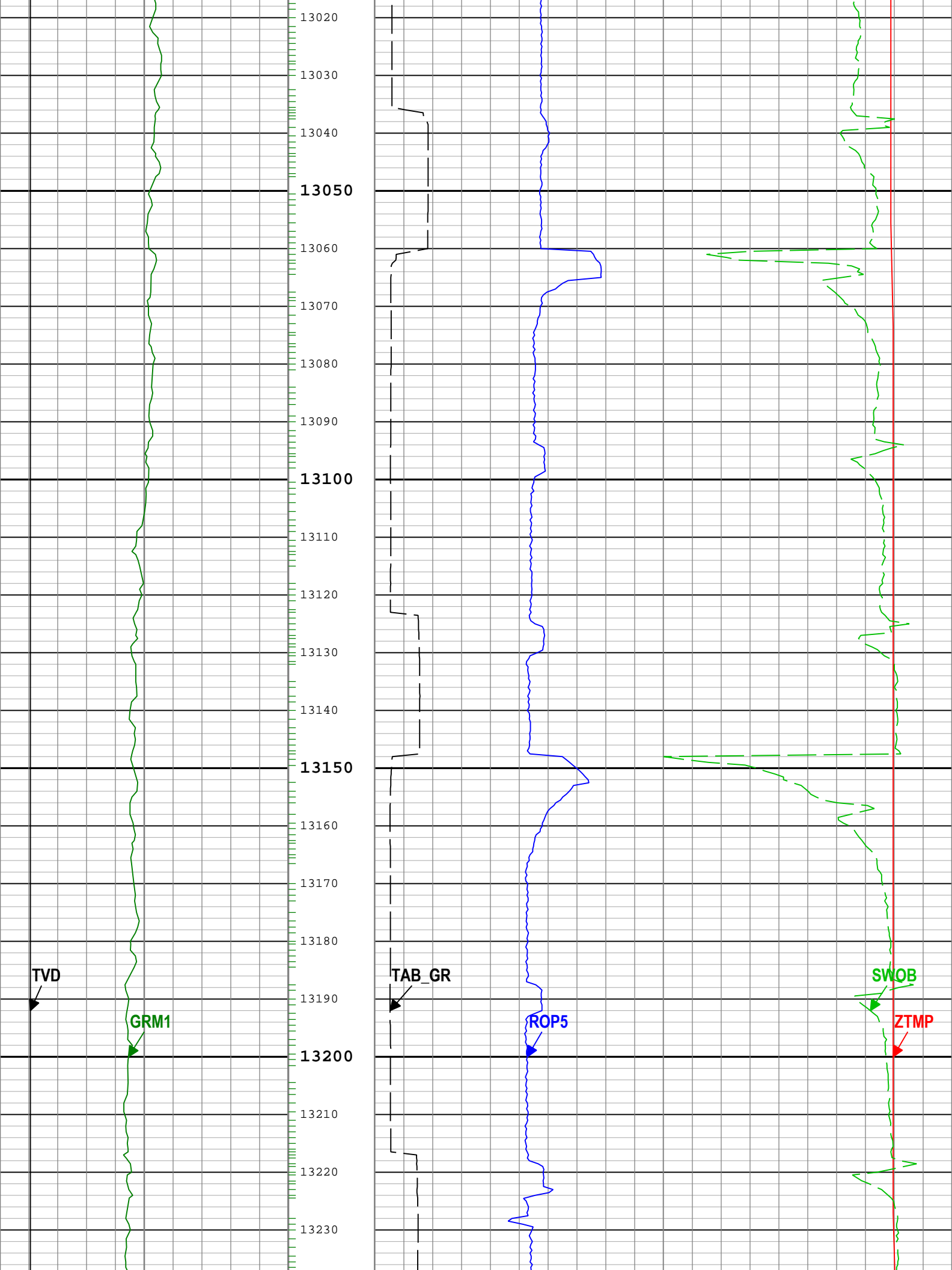


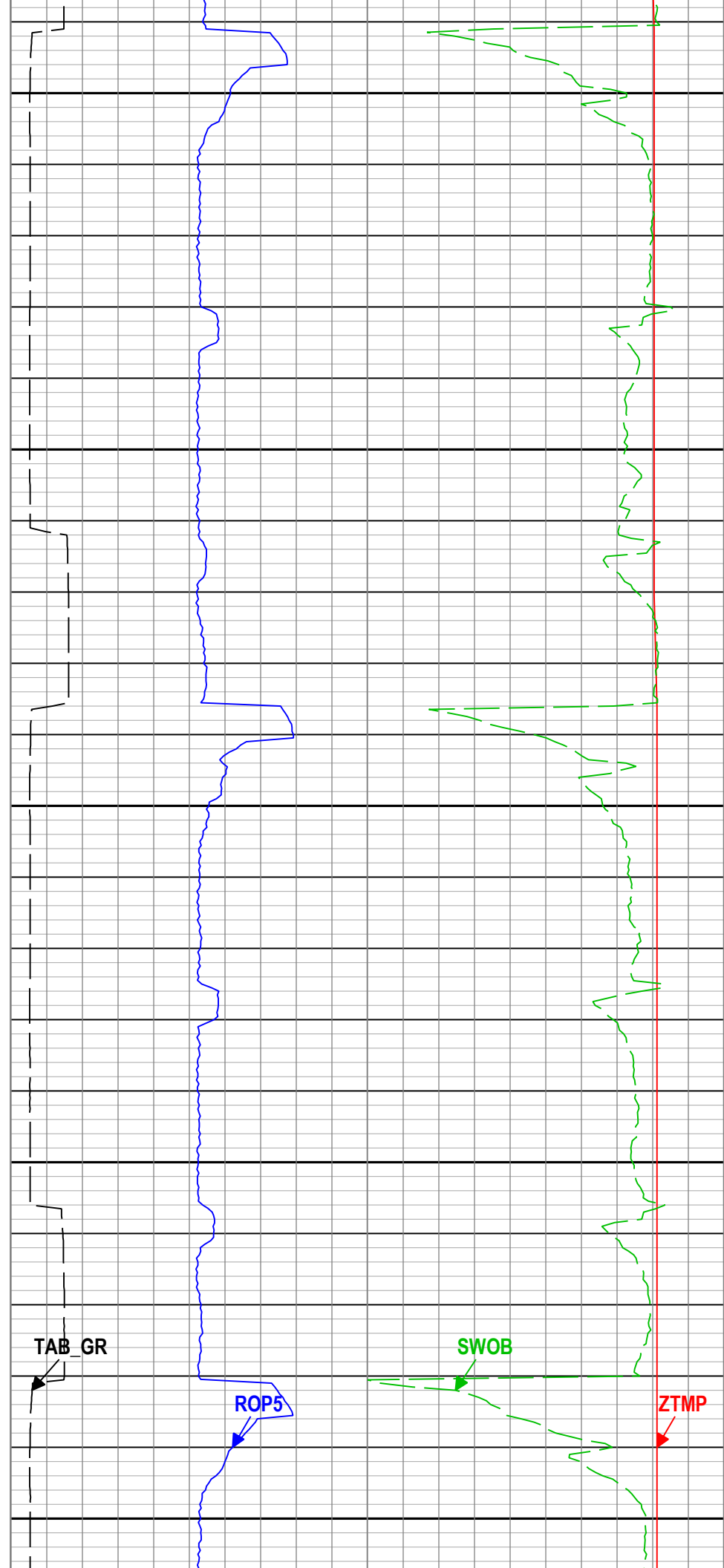
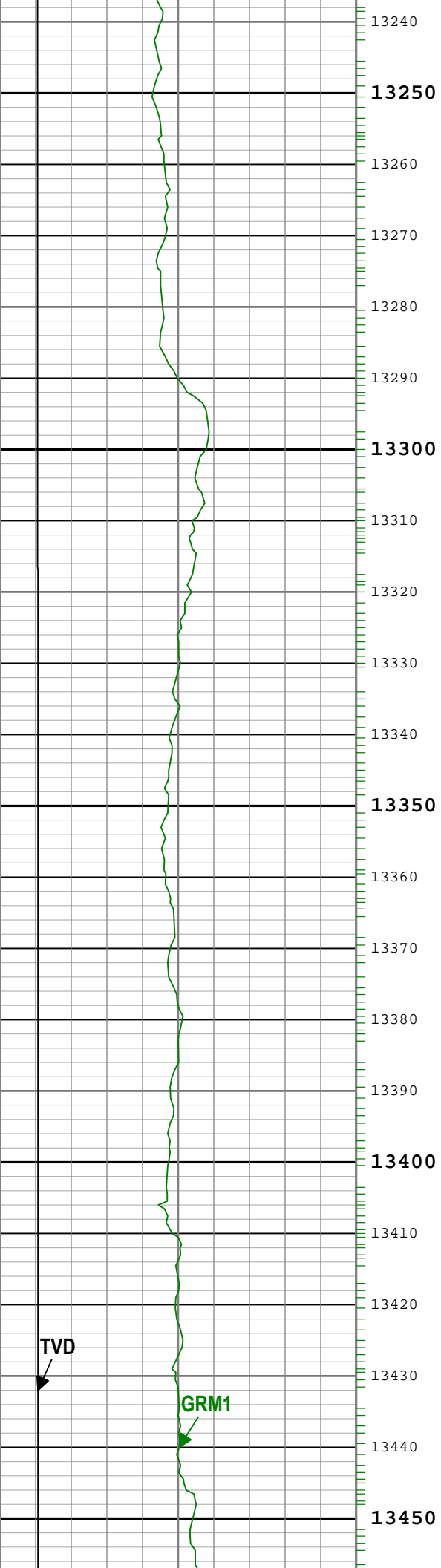


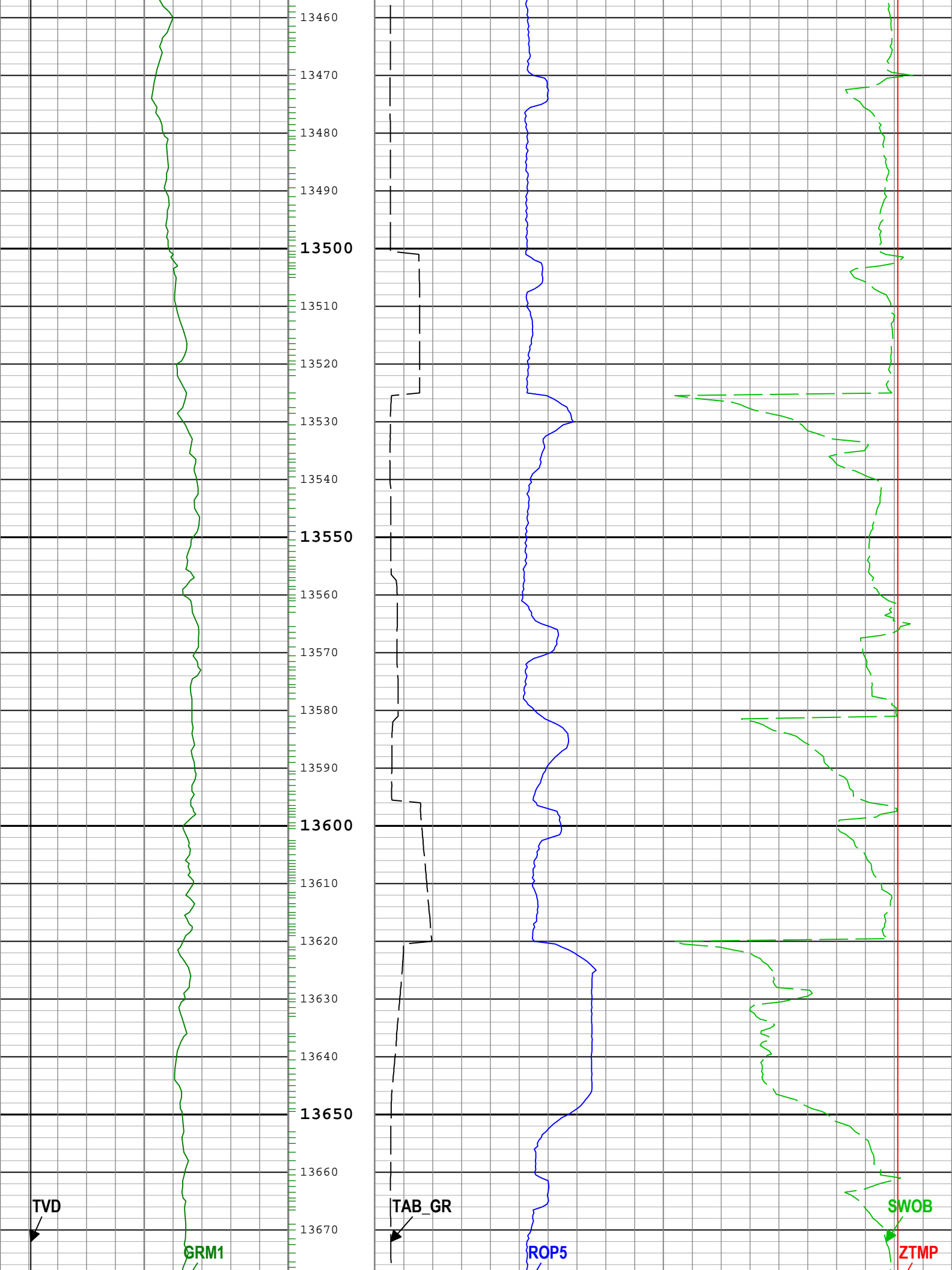


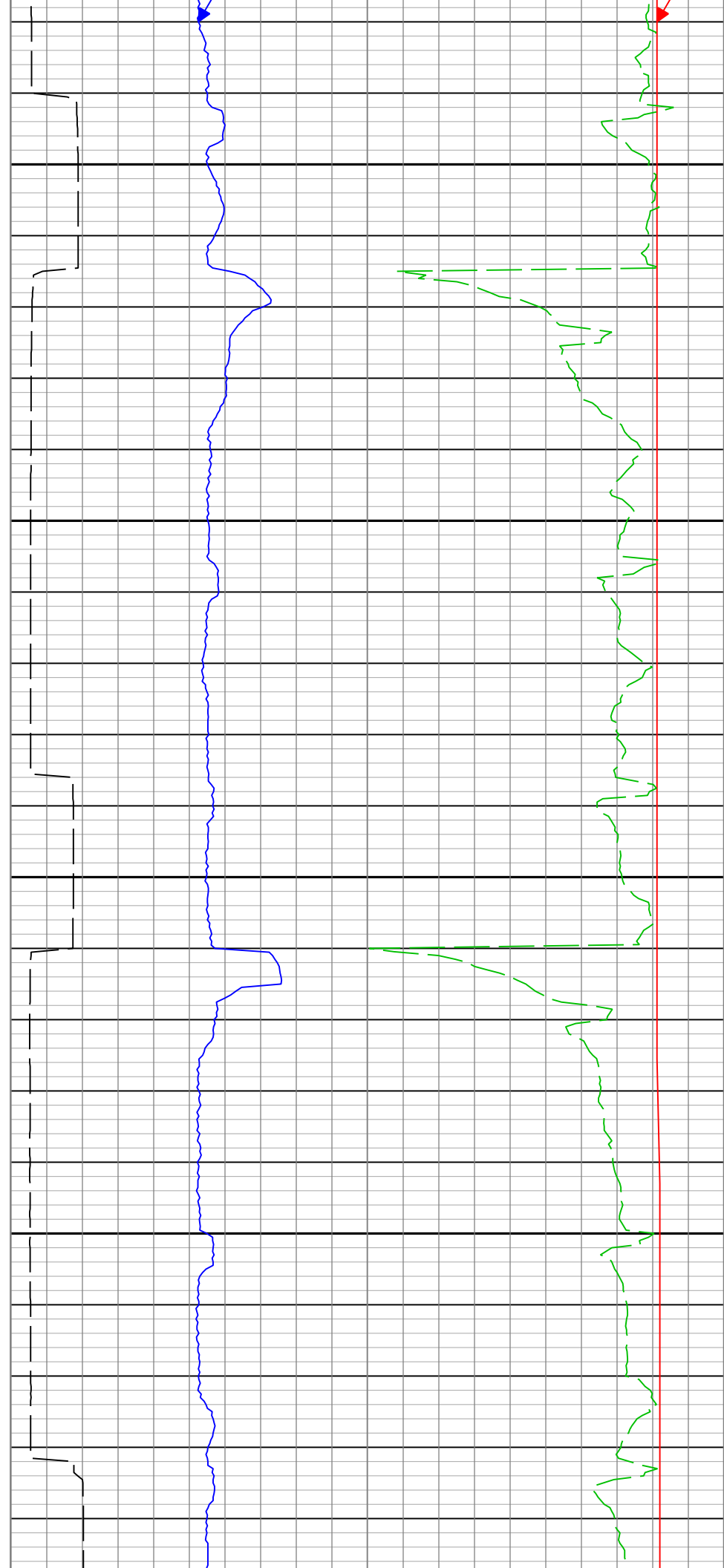
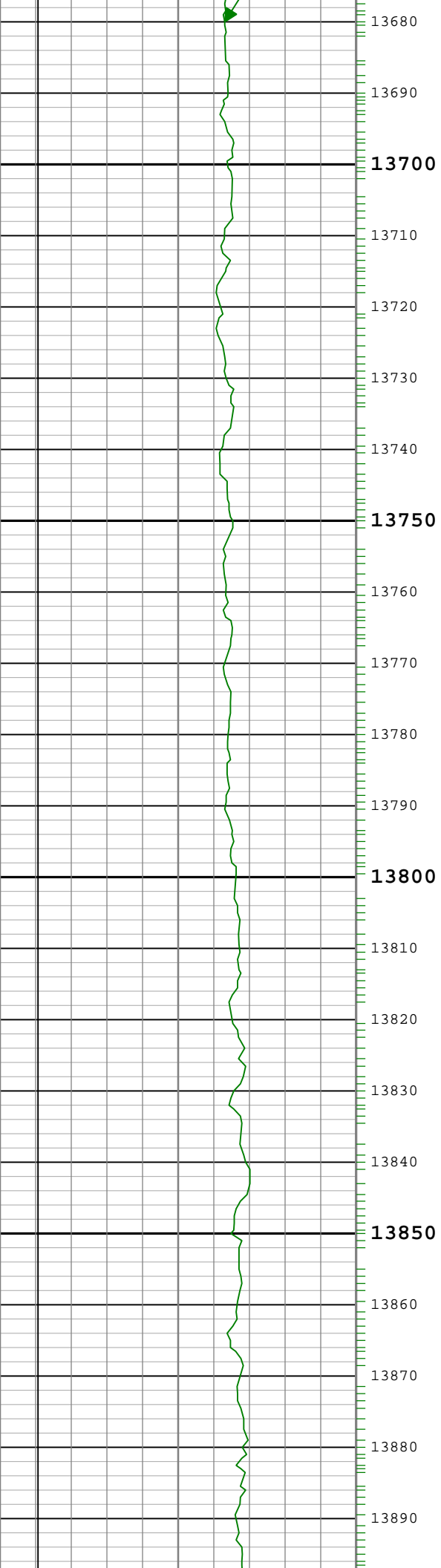


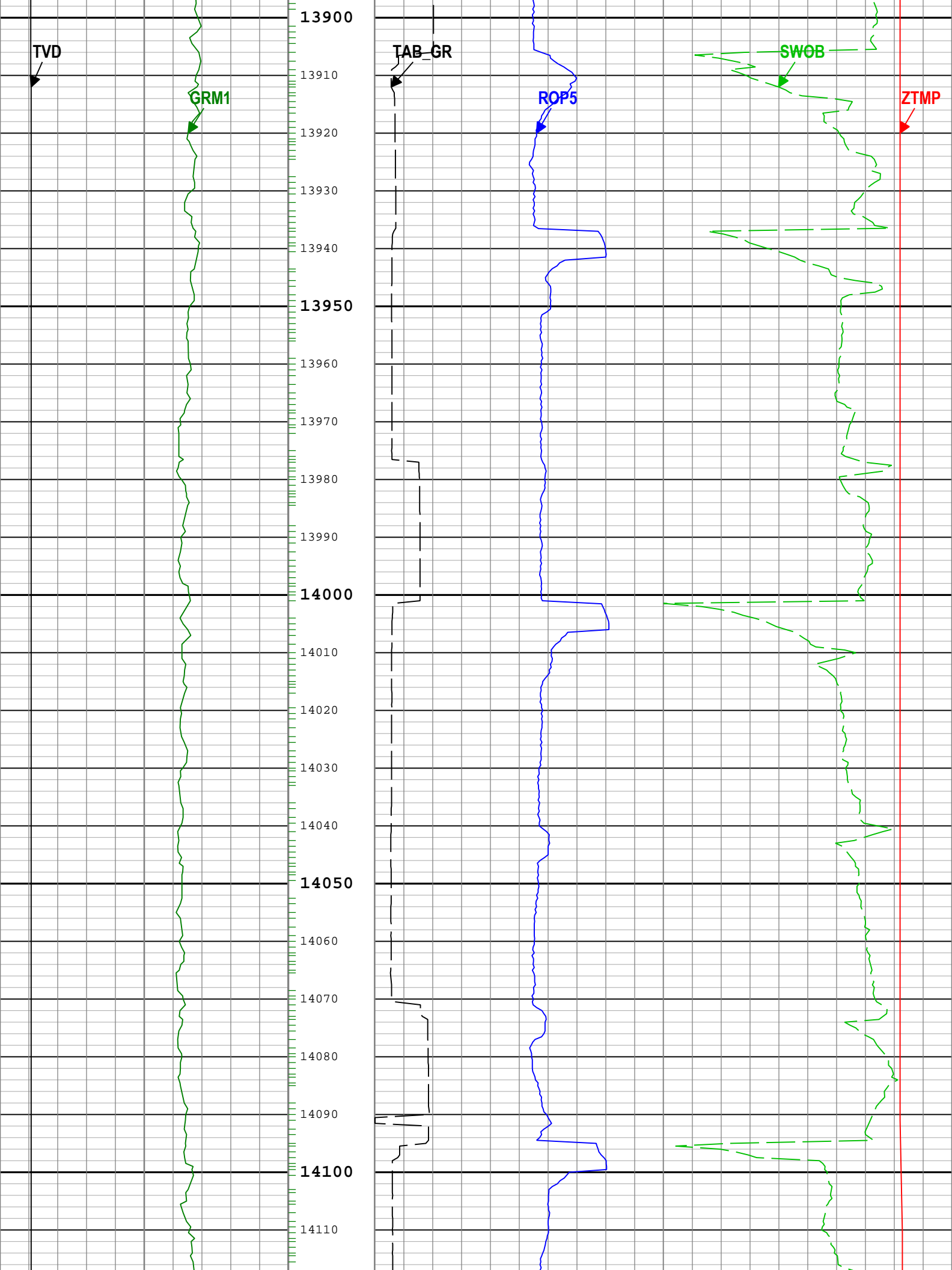


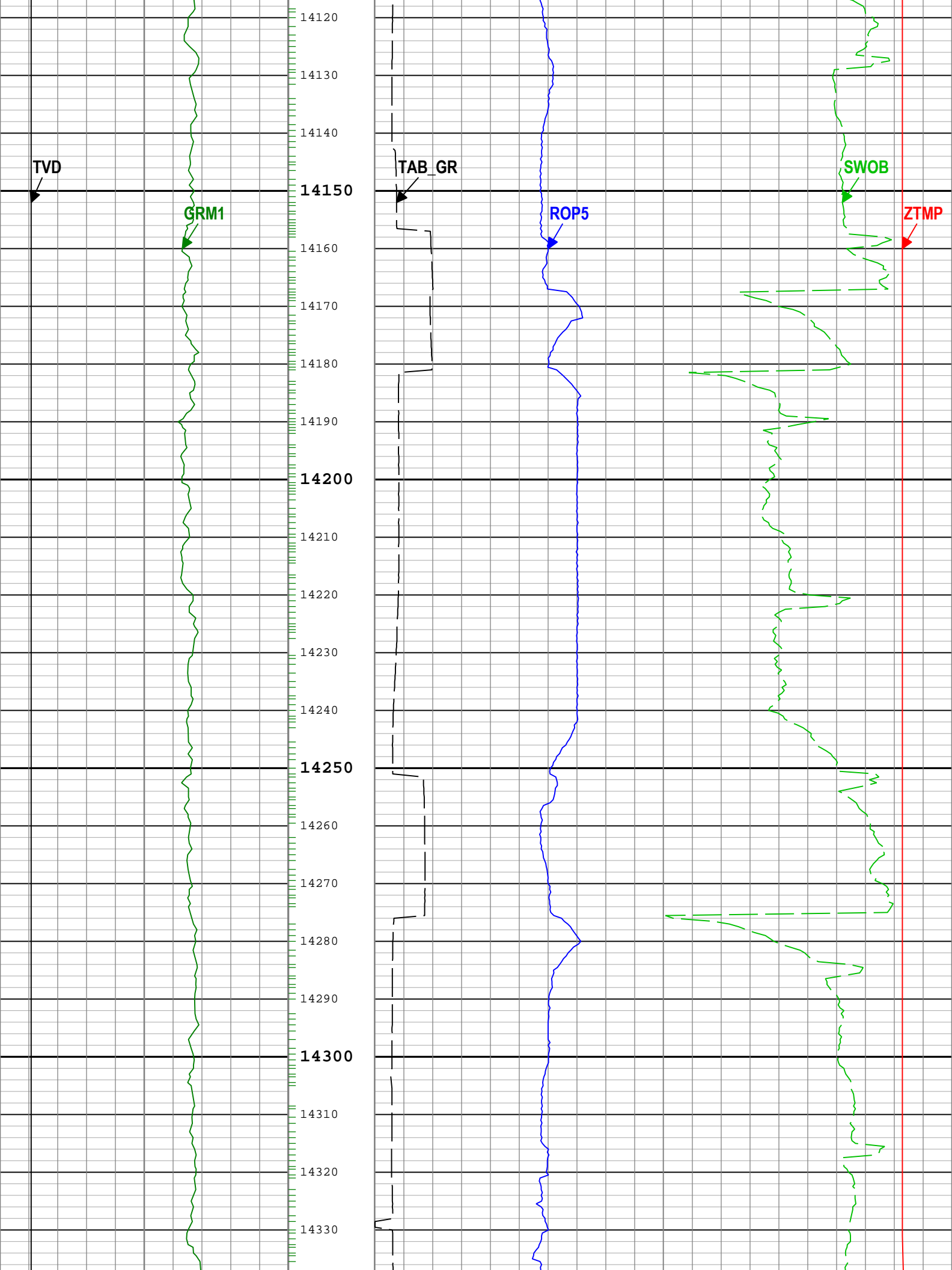


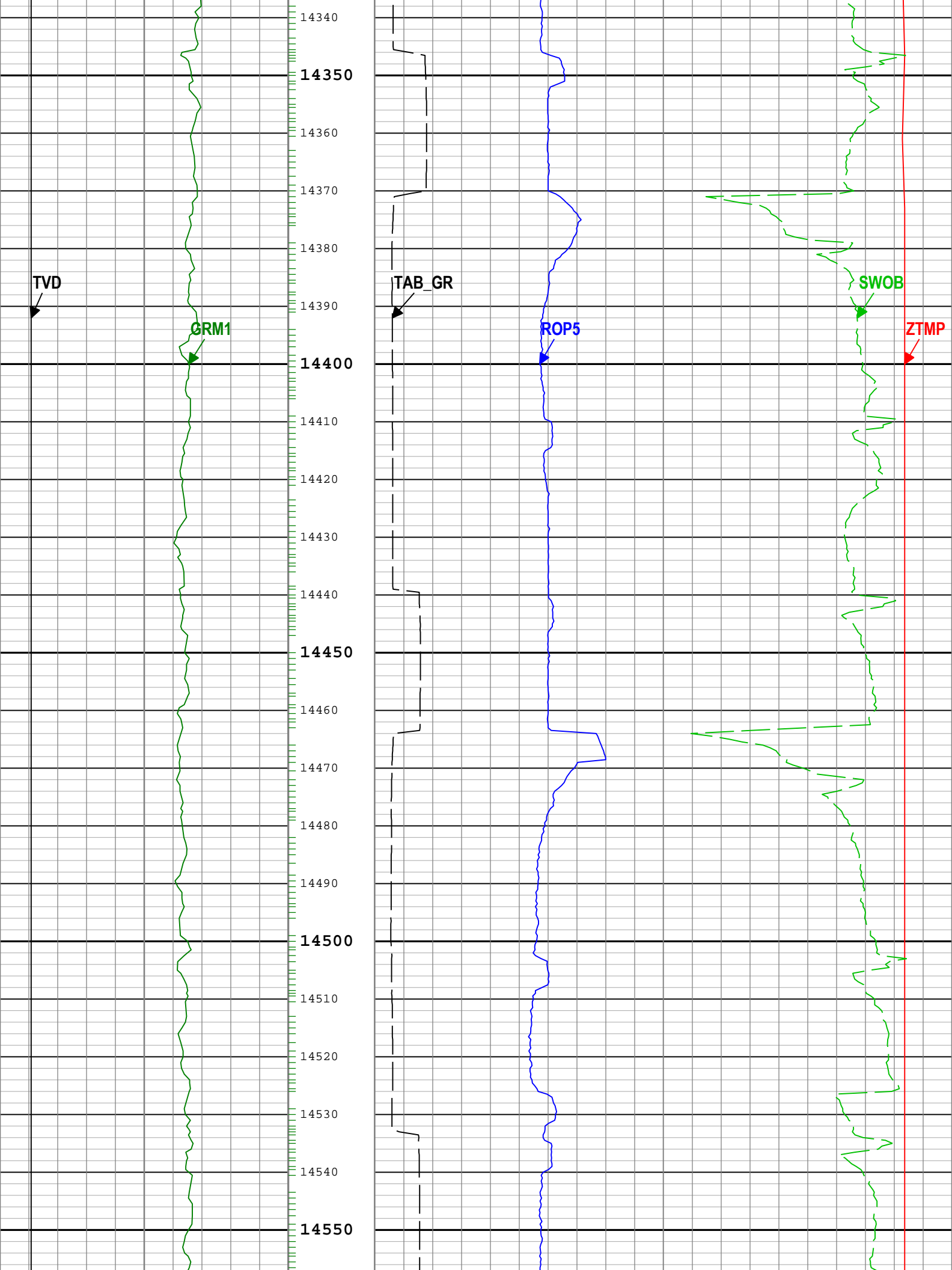


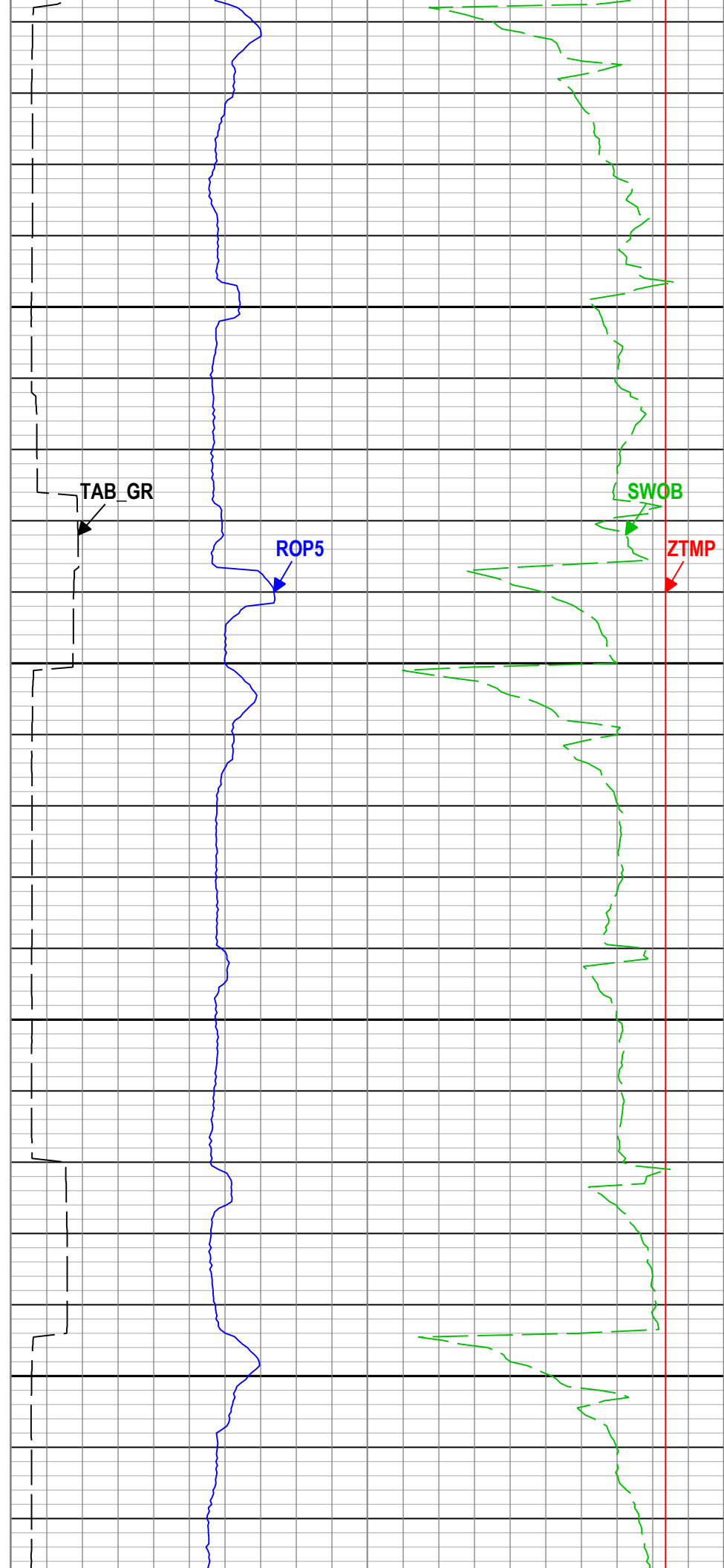
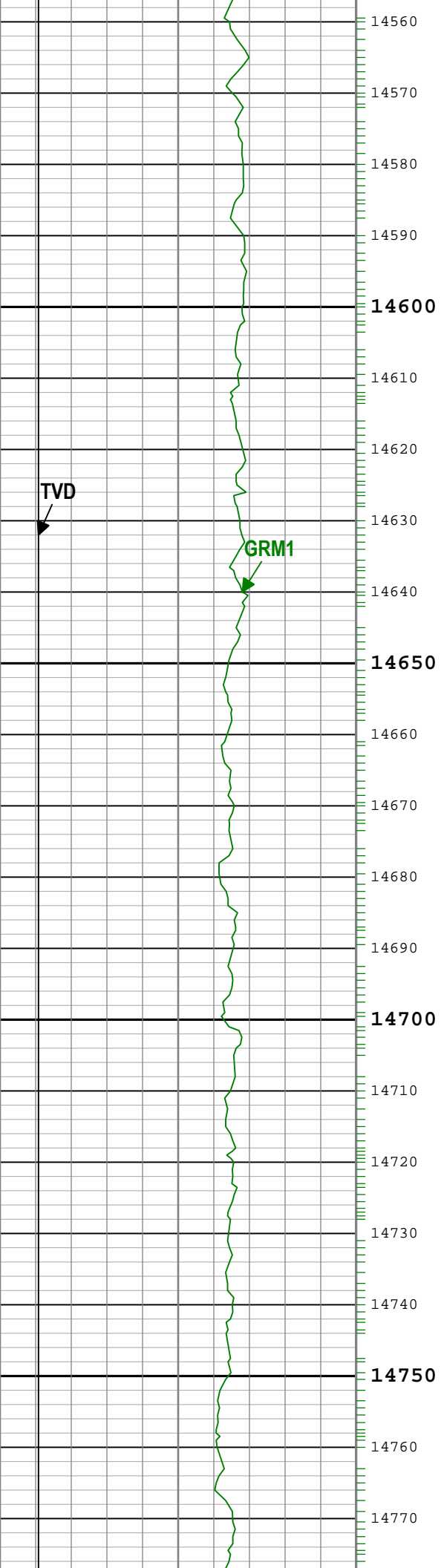


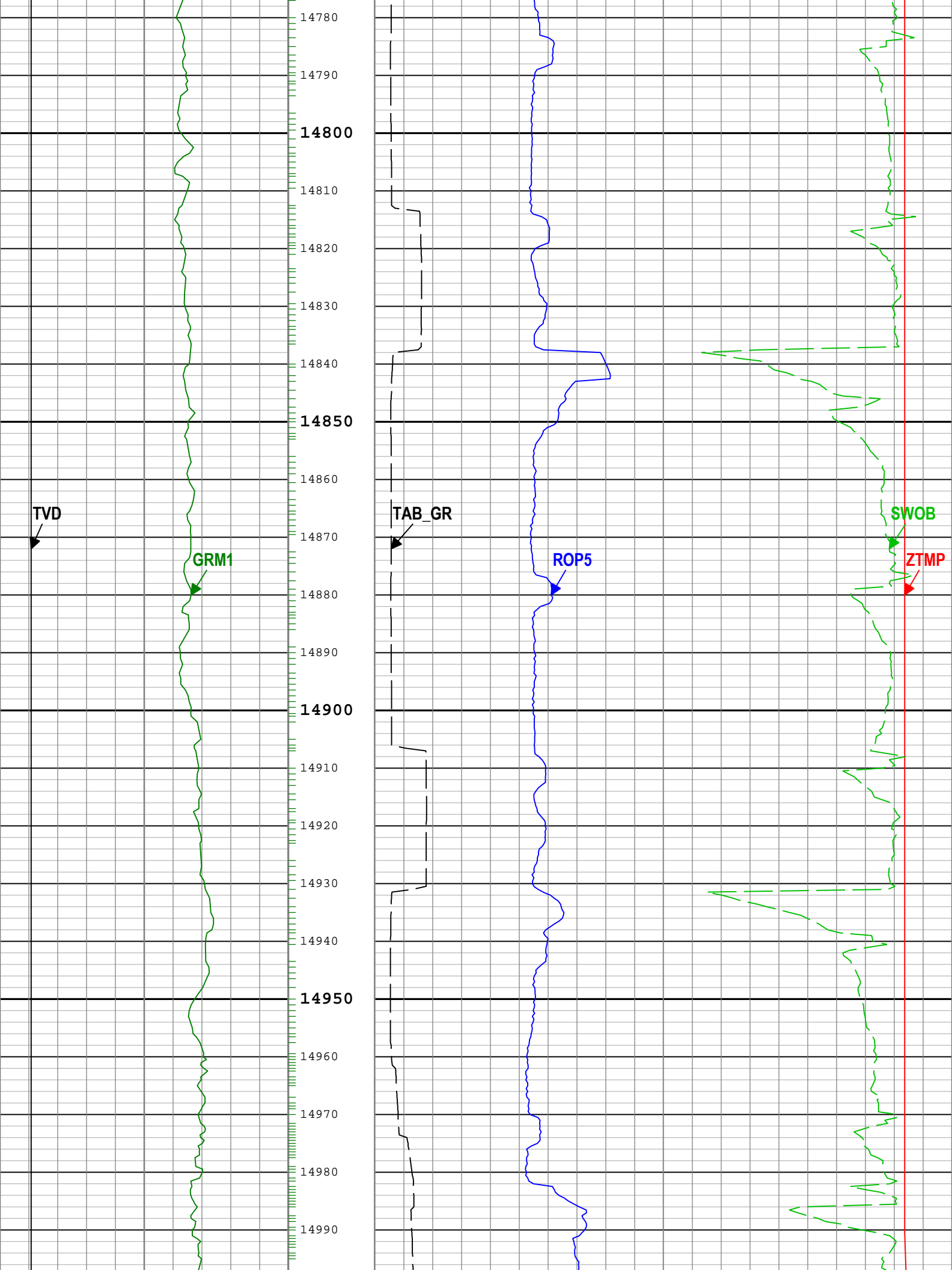


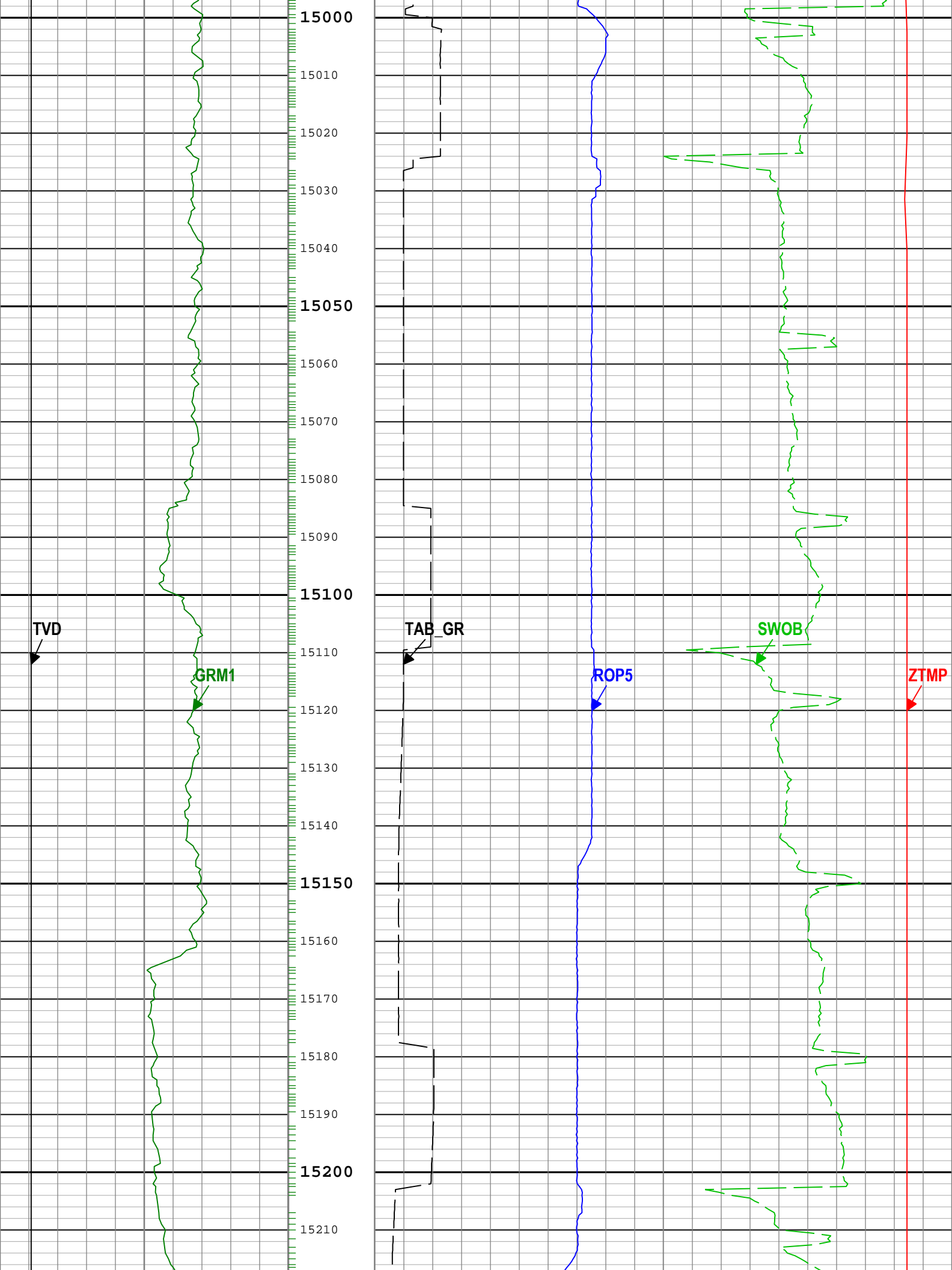


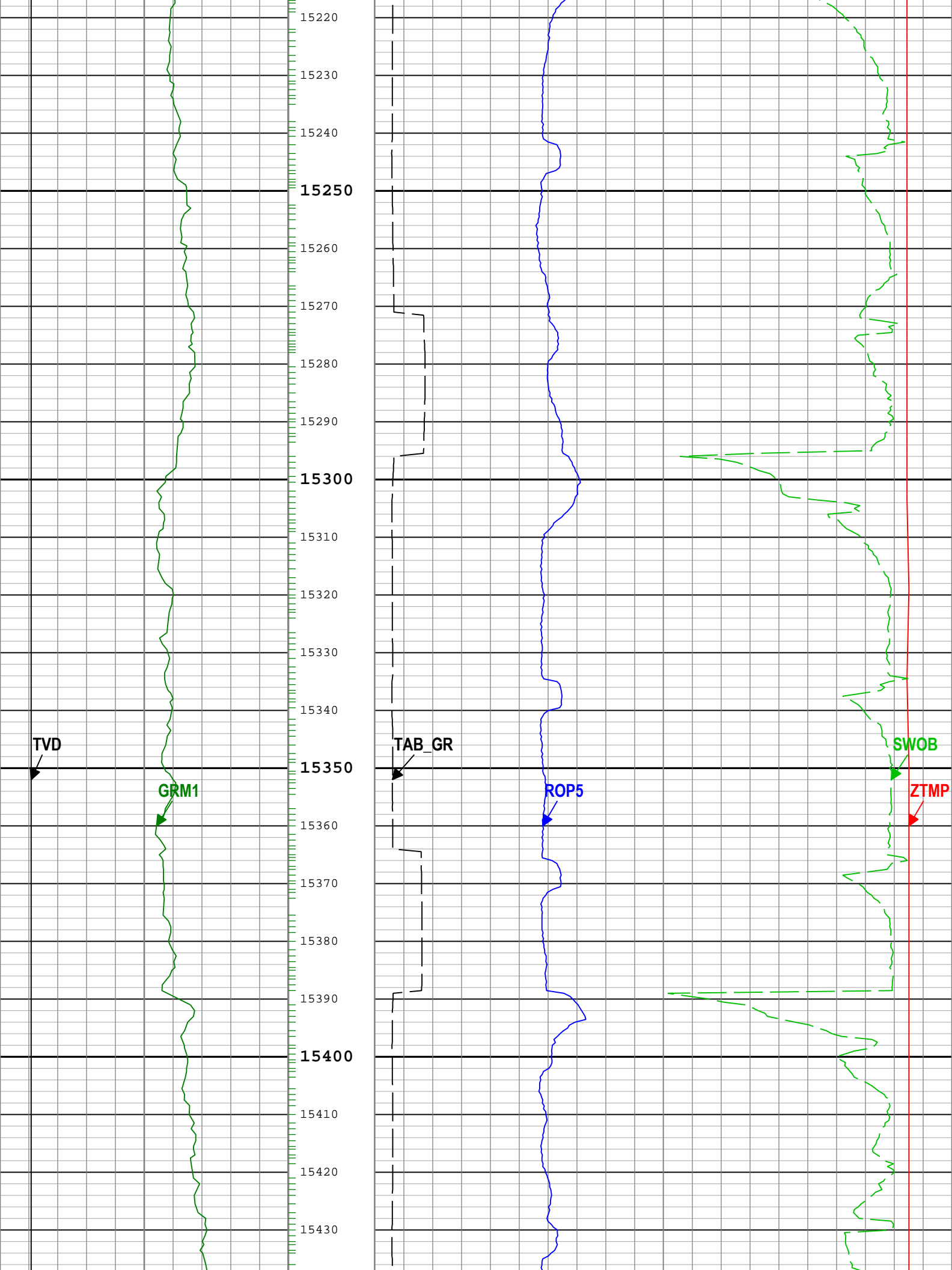


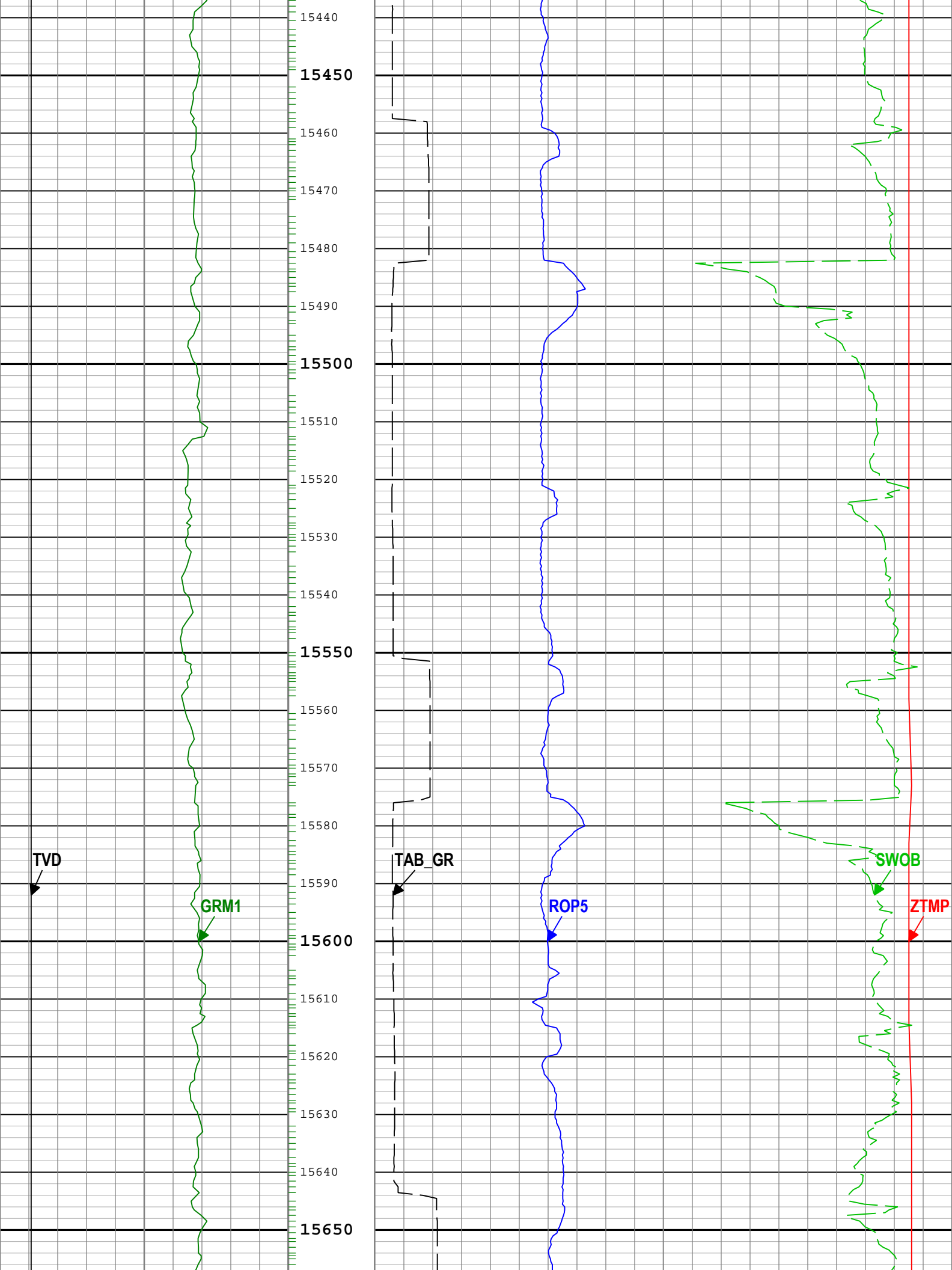


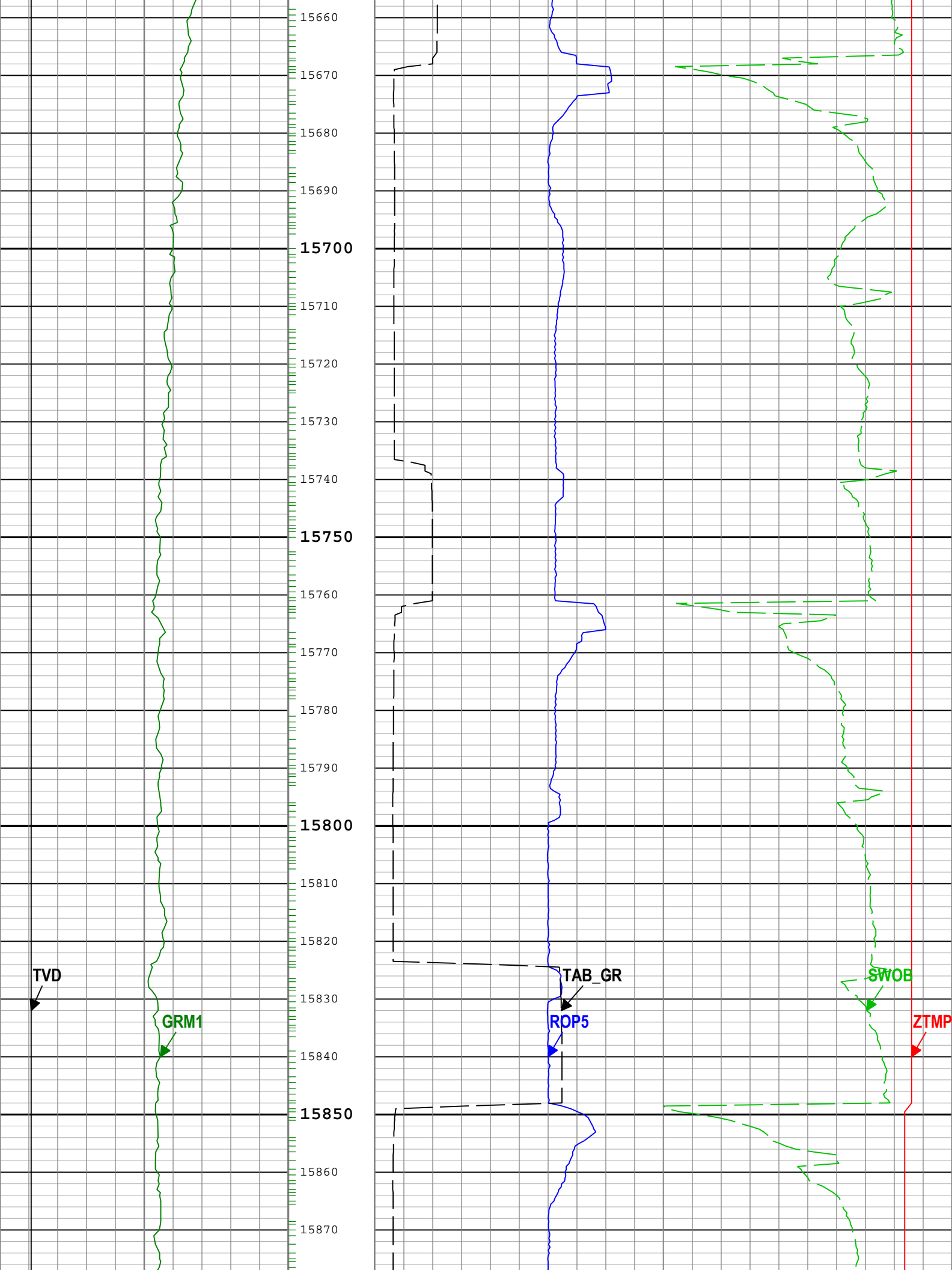


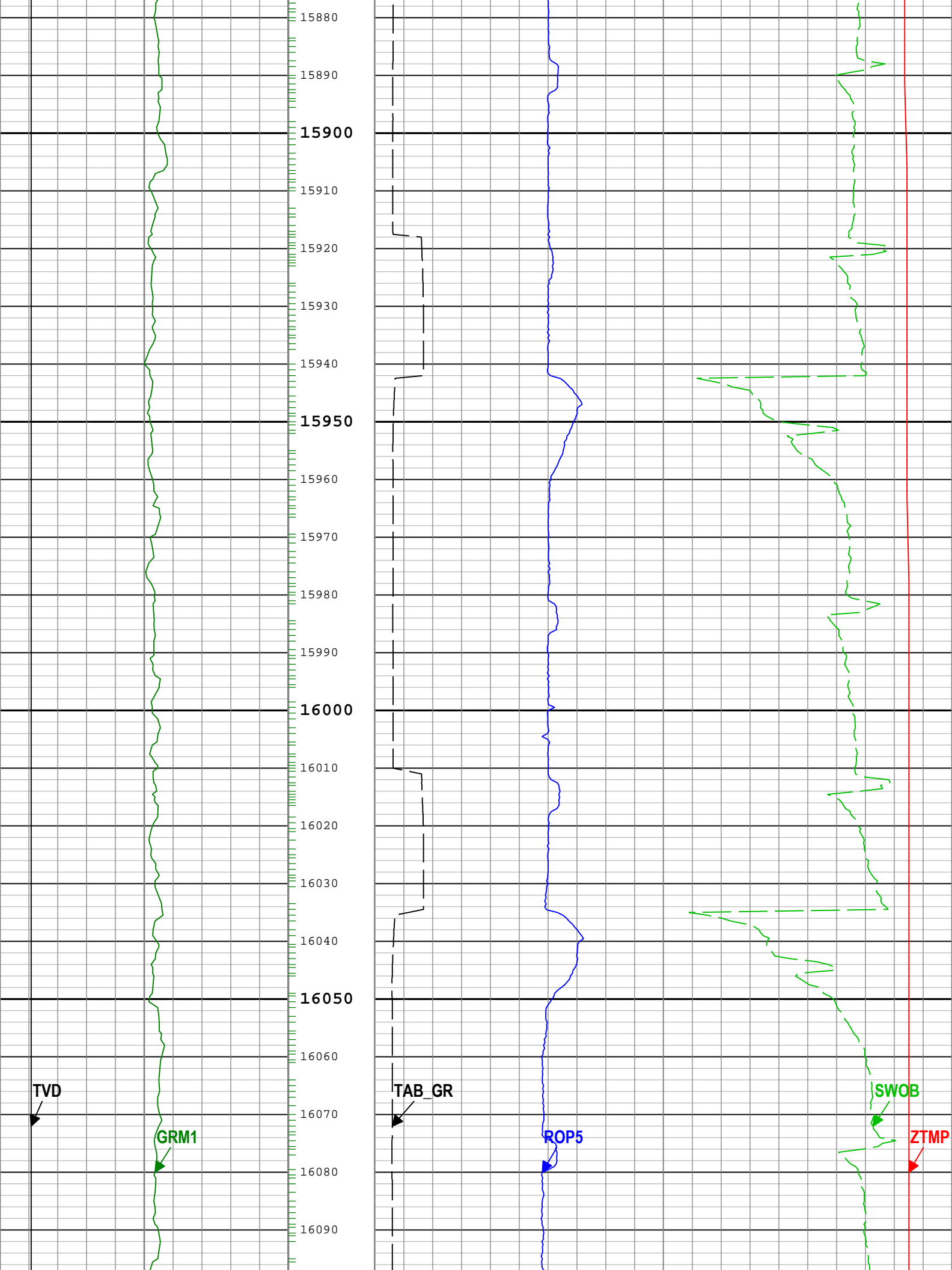


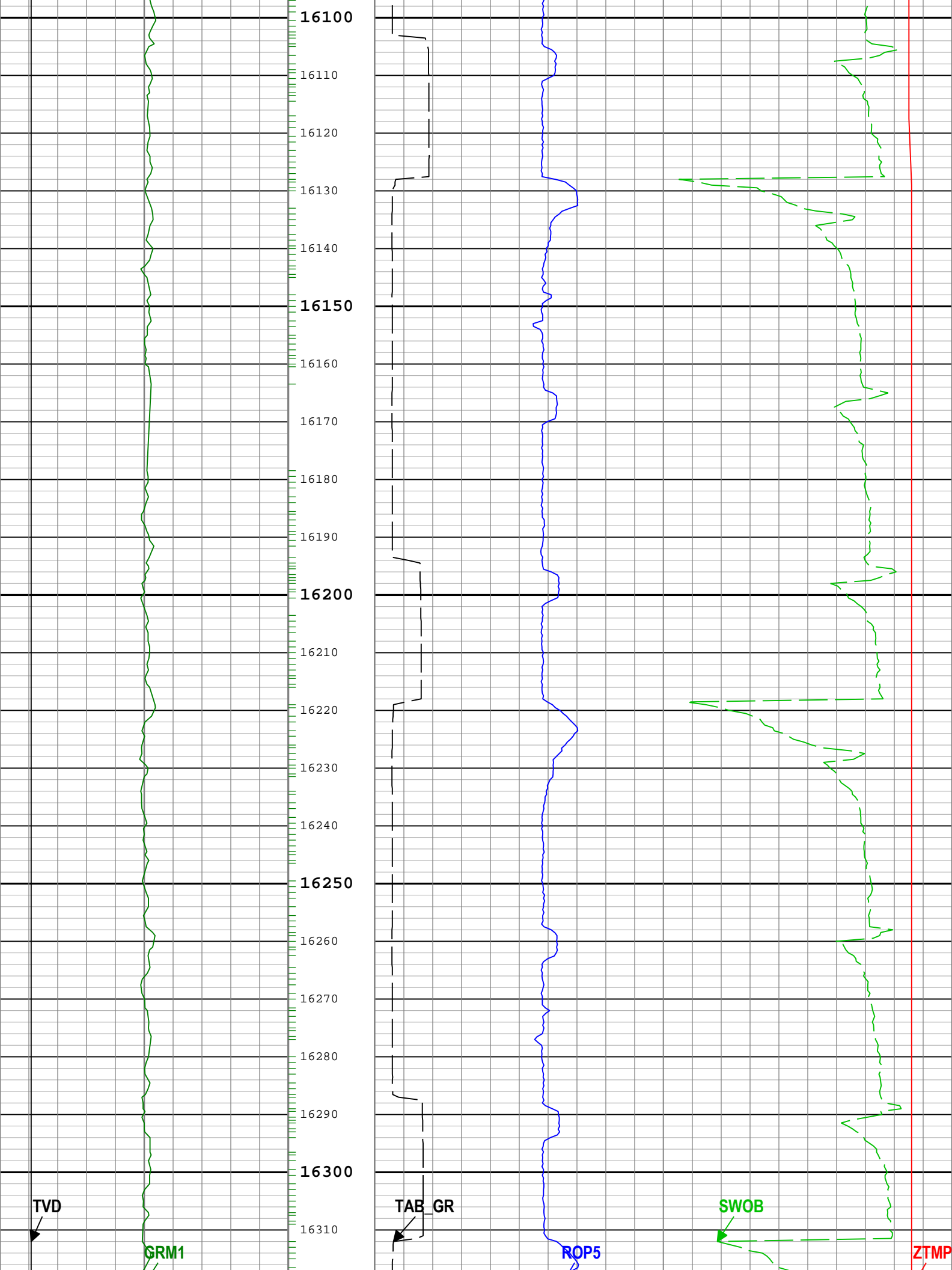


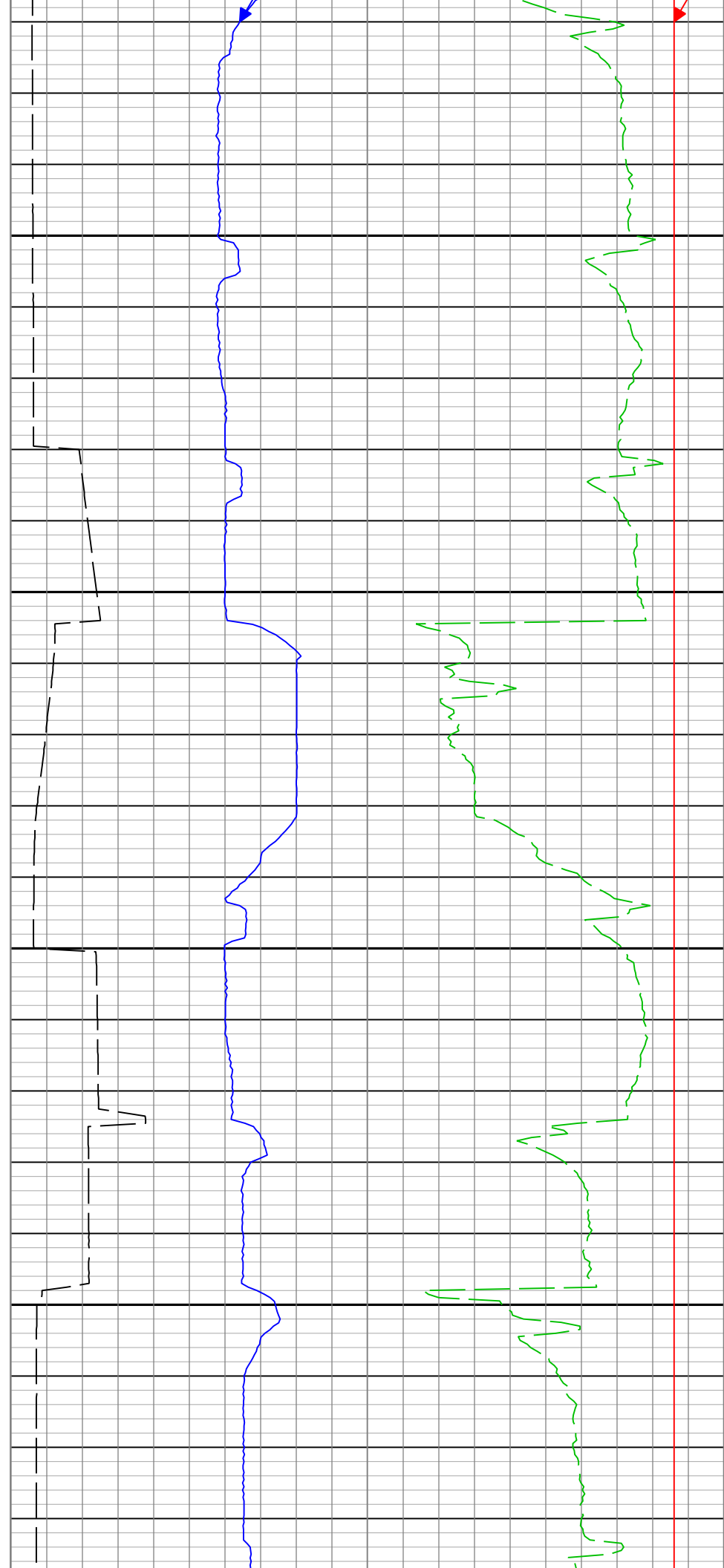
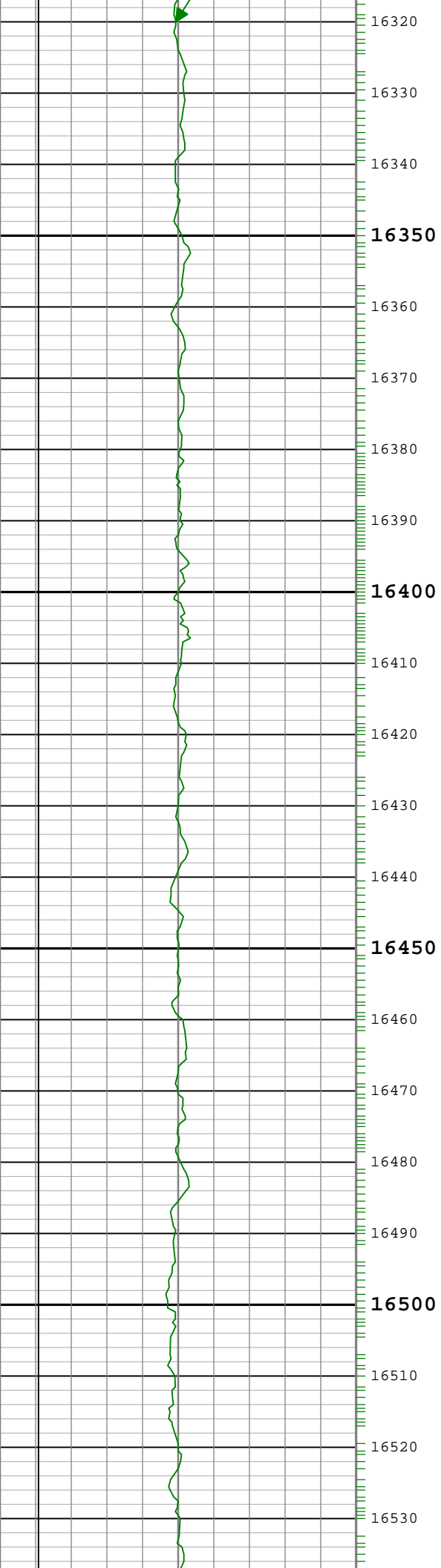


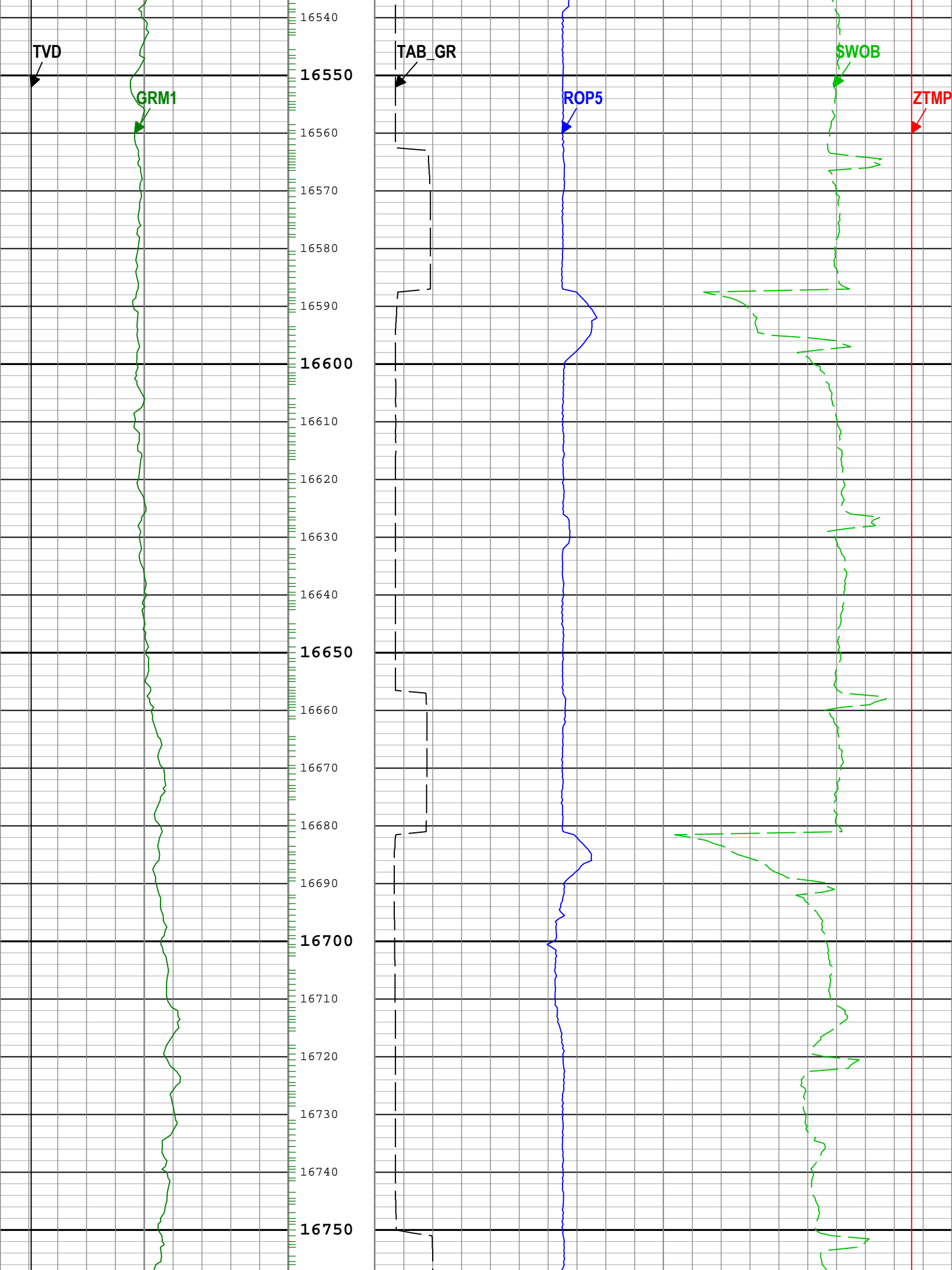


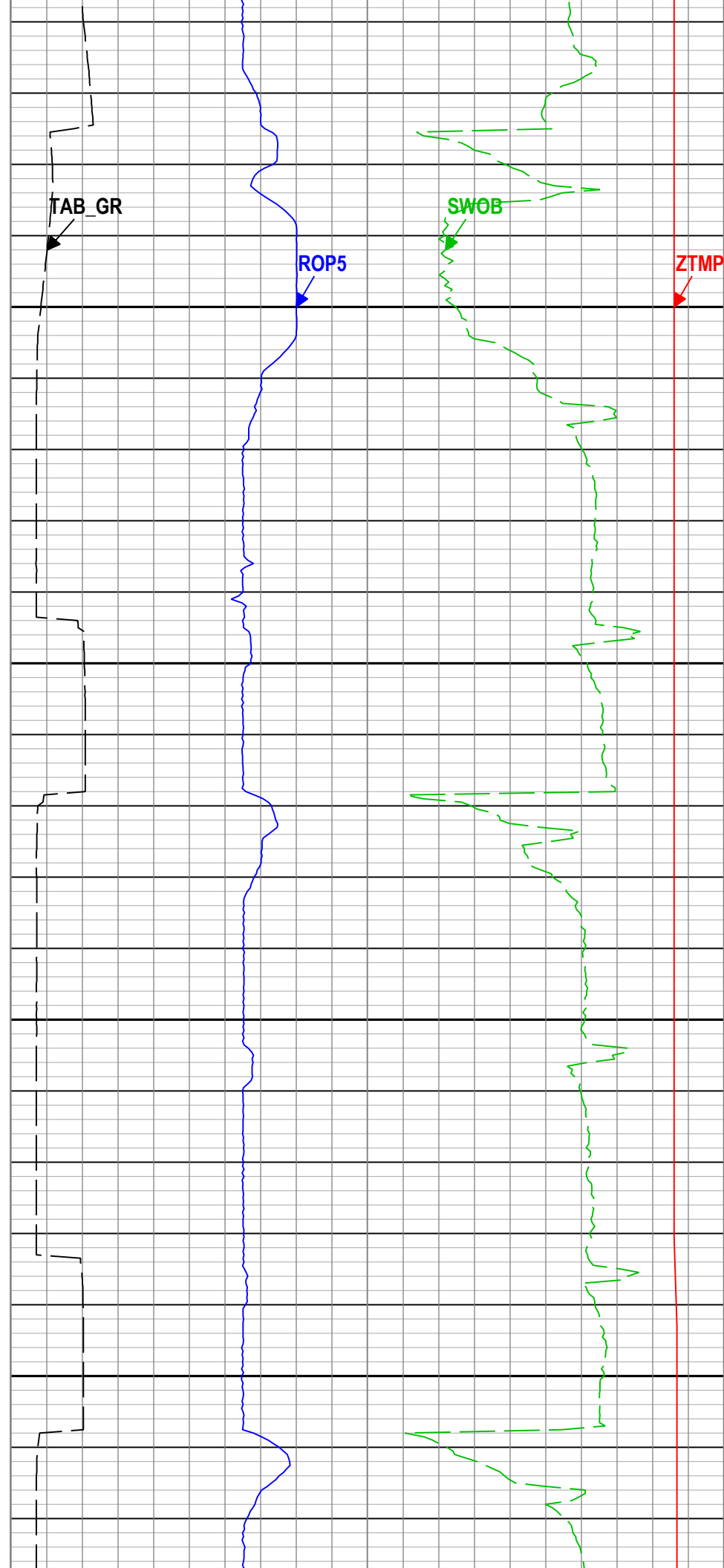
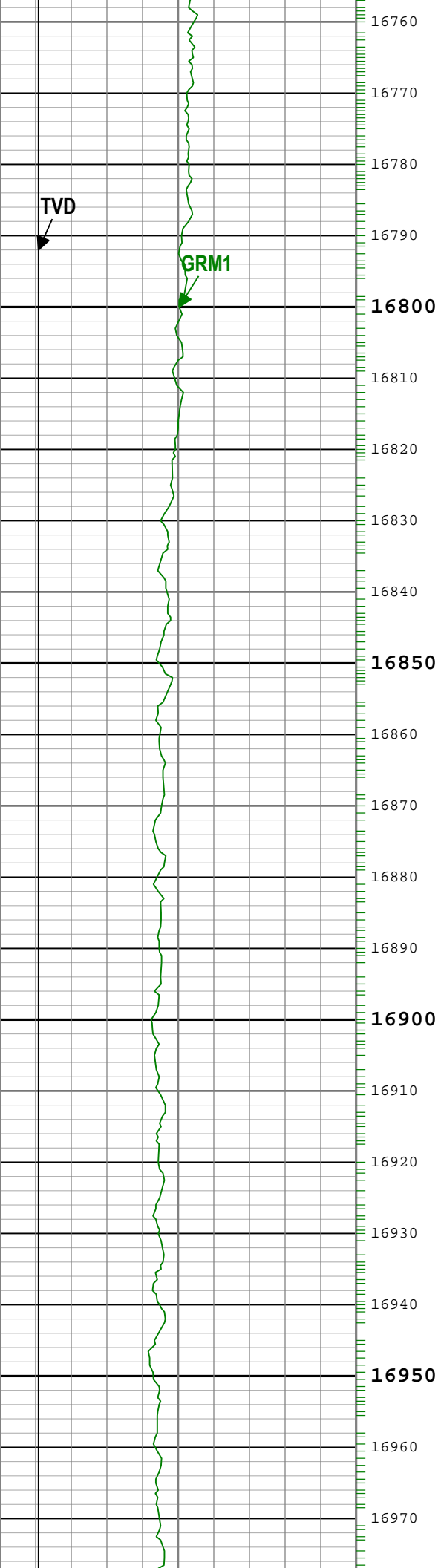


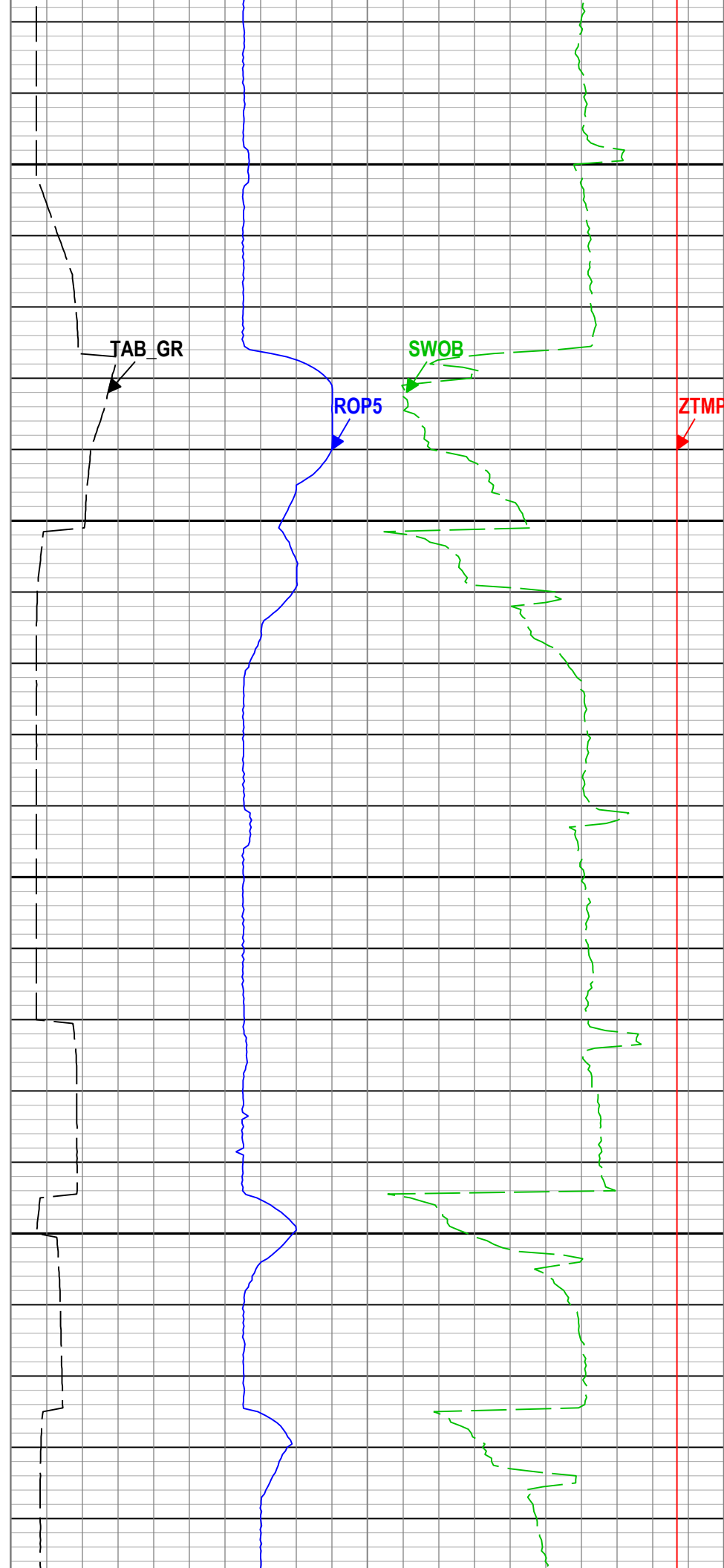
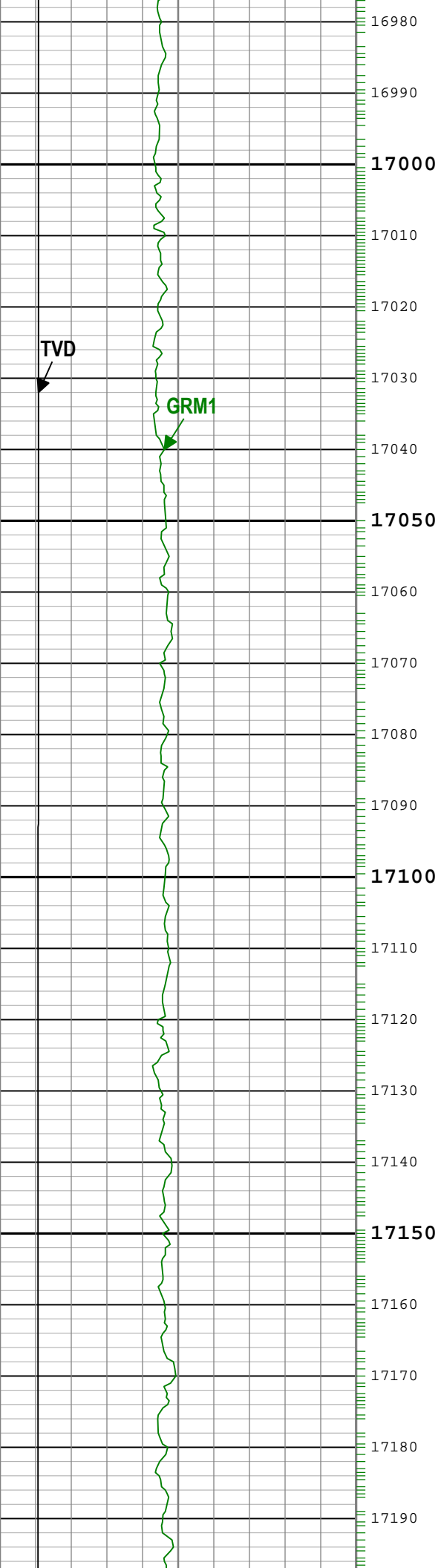


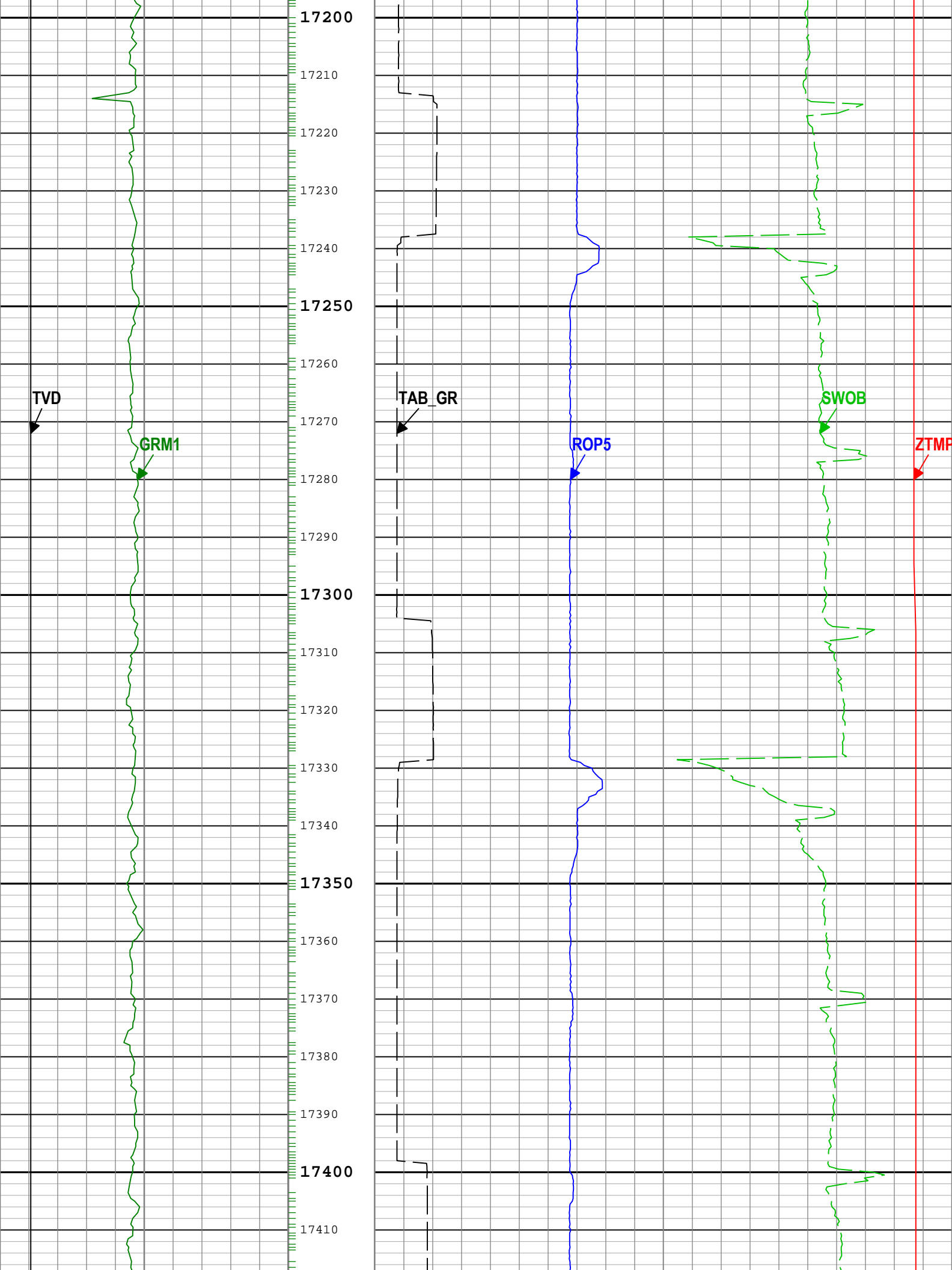


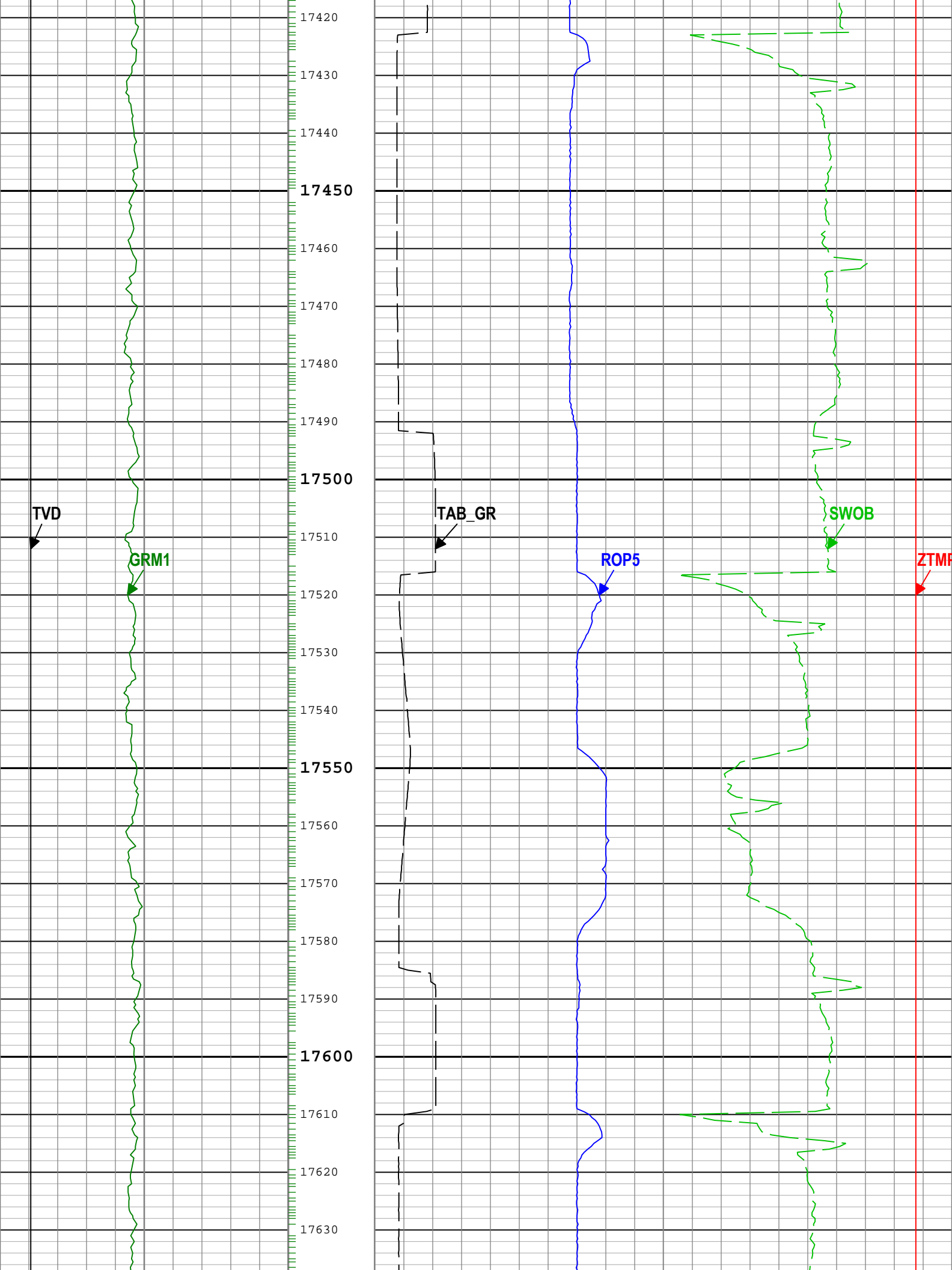


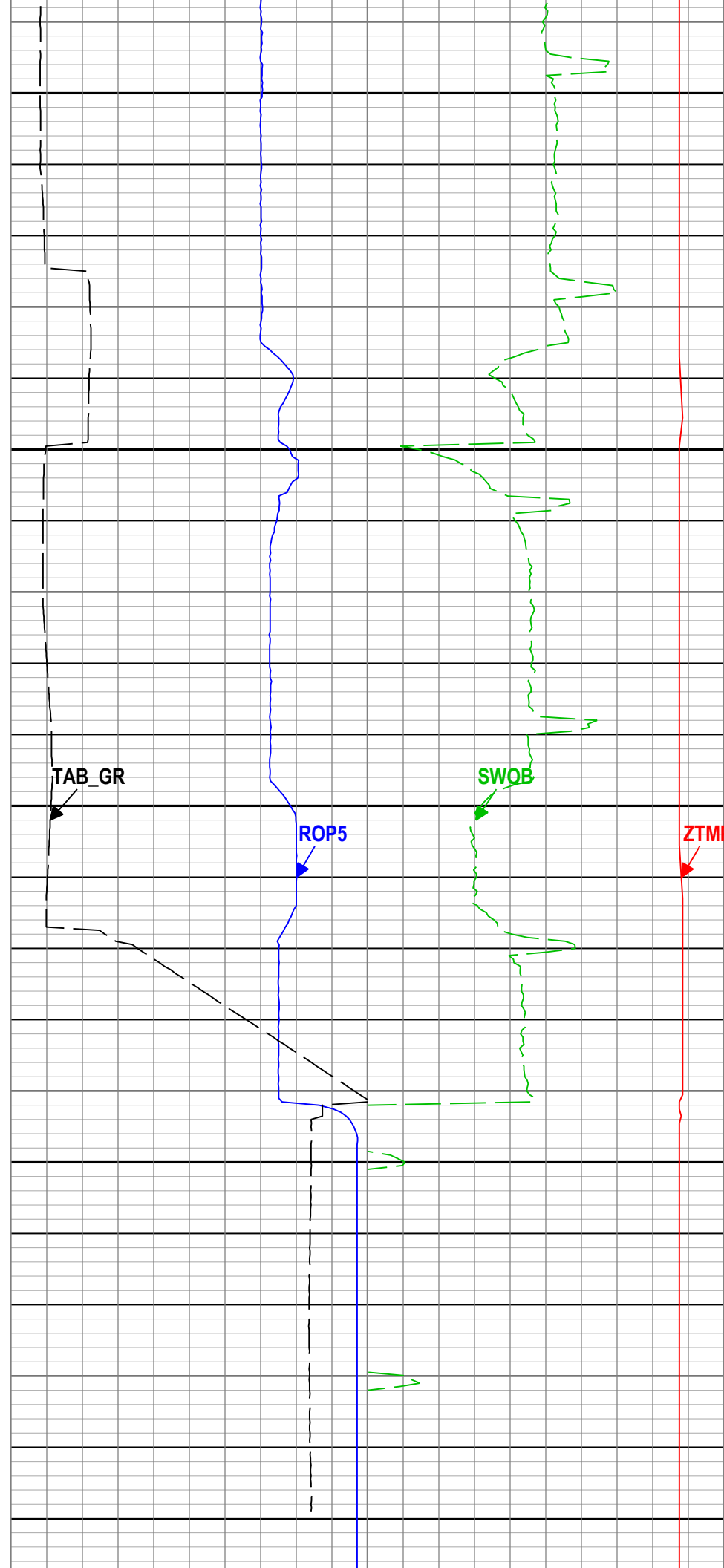
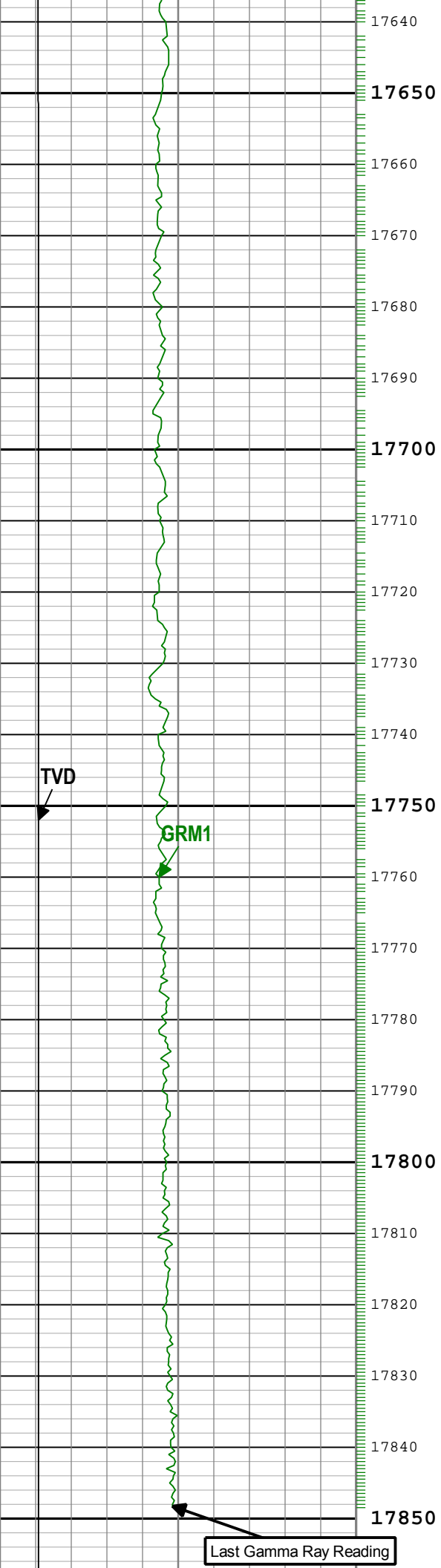












Channel Processing Parameters				
Run001: Parameters				
Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	Depth Zoned	in
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	9.6	lbm/gal
Run001Depth Zoned Parameters				
Parameter	Value	Start (ft)	Stop (ft)	
BS	12.25	1795	1828	
BS	8.5	1828	6081	
All depth are actual.				
Run002: Parameters				
Parameter	Description	Tool	Value	Unit
BS	Bit Size	DNMSESSION	8.5	in
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	10.2	lbm/gal
Tool Control Parameters				
Run001: Parameters				
Parameter	Description	Tool	Value	Unit
Run002: Parameters				
Parameter	Description	Tool	Value	Unit
Calibration Report				

Company: SRC Energy Inc

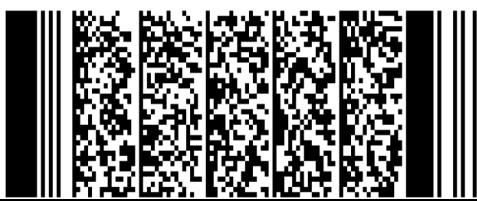
Well: Bost Farm 33N-11A-L

Field: Wattenberg

County: Weld

State: Colorado

Country: United States of America



XEM Gamma Ray

5in/100ft Measured Depth

Real Time, Composite Log