



Natural Formation Evaluation  
Gamma Ray

Scale:

1:240 MD

Company: Anadarko

Well: Carter 35N-33HZ

Depth Reference:

Field: Weld County

Driller's Depth

County: Weld State: Colorado

Status:

Final Print

Surface Location:

Latitude:

Longitude:

Other Services:

API No: 05-123-41558-00

Job ID: 7446893

SEC: 33

TWN: 2N

RGE: 66W

Permanent Datum (P.D.): Ground Level

Elevation:

4975.00 ft

KB:

0.00 ft

Log Measured From: Rig Floor

Above P.D.

16.00 ft

DF:

4991.00 ft

GL: 4975.00 ft

Dates

Interval Logged

Magnetic Field Reference

Date From: 2015-09-07 Top: (ft) 6750.00

Azi Reference North: True

Dip Angle: (deg)

66.70

Date To: 2015-09-09 Bottom: (ft) 12741.00

Total Magnetic Field Strength: (nT)

52762

Spud Date: 2015-09-05

Mag to Reference North Correction: (deg)

8.34 E

Borehole Record

Casing Record

Hole Size (in) From (ft) To (ft)

Size (in)

Weight (lb/ft)

From (ft)

To (ft)

7.875 1881.00 12741.68

9.625

32.00

16.00

1881.00

Mud Record

Deviation Record

Type From (ft) To (ft)

Hole Size (in)

Interval (ft)

Inc | Az (Start)

Inc | Az (End)

Oil Based Mud 1881.00 12741.68

7.875

10859.68

23.24 | 14.54

89.94 | 181.94

Acquisition System

Software Version

Other

Baker Hughes Cadence

2.0.7102.1

Rig:

Xtreme 23

Prior Studio

2.0.7102.1

Contractor:

Xtreme Drilling

Unit:

D&E

District:

RMD

"These interpretations and analyses ("Interpretations") are opinions provided by Baker Hughes Oilfield Operations, Inc ("Baker Hughes"), based upon industry practice, empirical relationships, assumptions and measurements, (many of which may be provided by the customer). The Interpretations are not infallible and may be subject to different opinions. Vjwu. "Dcmgt"Jwijgu"fqgu"pqv"ycttcpv"vjgkt"ceewtce{. "eqttgevpguu. "qt"eqorngvgpguu. "qt"vjcv"vjg"ewuvqogtøu"cpflqt"cp{ "vjktf"rctv{øu"tgnkcpv"qp"uwej"Kpvgtrtgv cvkqpu"yknn"cee qornkuj"cp{ "rctvkewnct"tguwnvu0"Vjg"ewuvqogt"cuuwogu"hwnn" responsibility for the use of the Interpretations and for decisions based thereon and the customer agrees to release, defend and indemnify Baker Hughes, its parent, subsidiaries and affiliated or related entities, and subcontractors, together with its and their officers, directors, employees, agents and invitees against, any and all claims, losses, damages, or expenses sustained by the customer or any third party arising out of reliance upon or use of the Interpretations, without regard to the cause(s) thereof, including without limitation any form of negligence on the

part of Baker Hughes. Unless other contract terms have been agreed to by the parties, each party's liabilities and obligations shall not be limited by the following disclaimer: "The data presented herein is the property of Baker Hughes and is provided for informational purposes only. It is not to be used for legal or financial purposes. Baker Hughes disclaims any liability for errors or omissions in the data presented herein. The data is provided as is, without any warranty, express or implied. Baker Hughes reserves the right to modify or discontinue the data at any time without notice." "Dcmgt"Jwi jgu"Kpeqtrqtcv g f ø u"Yqtnfykfg"Vgtou"cpf"Egpfkvkqpu0\$""

Log Run Summary

Run No	Bit Run No.	Bit Size (in)	Bit Type	Bit Gauge Length (in)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Hours (h)
						Top	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	1	7.875	PDS	3.00	Motor	1881.00	12696.28	1881.00	12741.68	2015-09-07 20:20	2015-09-09 10:20	46.20

Crew

Name		Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite	Name		Arrive Wellsite	Depart Wellsite
Andrew Clancy		2015-09-06	2015-09-10	Matt Delmore		2015-09-06	2015-09-10				

Mud Properties Record

Date / Time	Run No.	Measured Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2015-09-07 06:00	1	1891.00	Oil Based Mud	9.3	51	N/A	0.0	69.8/30.2	Active Pit	68000	0.00
2015-09-07 18:00	1	6101.00	Oil Based Mud	9.0	48	N/A	0.0	69.8/30.2	Active Pit	63000	0.00
2015-09-08 06:00	1	7816.00	Oil Based Mud	9.6	48	N/A	0.0	68.6/31.4	Active Pit	69000	0.00
2015-09-08 18:00	1	10388.00	Oil Based Mud	9.4	47	N/A	0.0	68.8/31.2	Active Pit	67000	0.00

Equipment and Service Data

Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
1	NaviGamma	6055	Gamma (single)	14.46	45.40	6.820	2.750
1	NaviGamma	6055	Directional (mag)	17.80	48.74	6.820	2.750
1	NaviGamma	6055	VSS	17.80	48.74	6.820	2.750

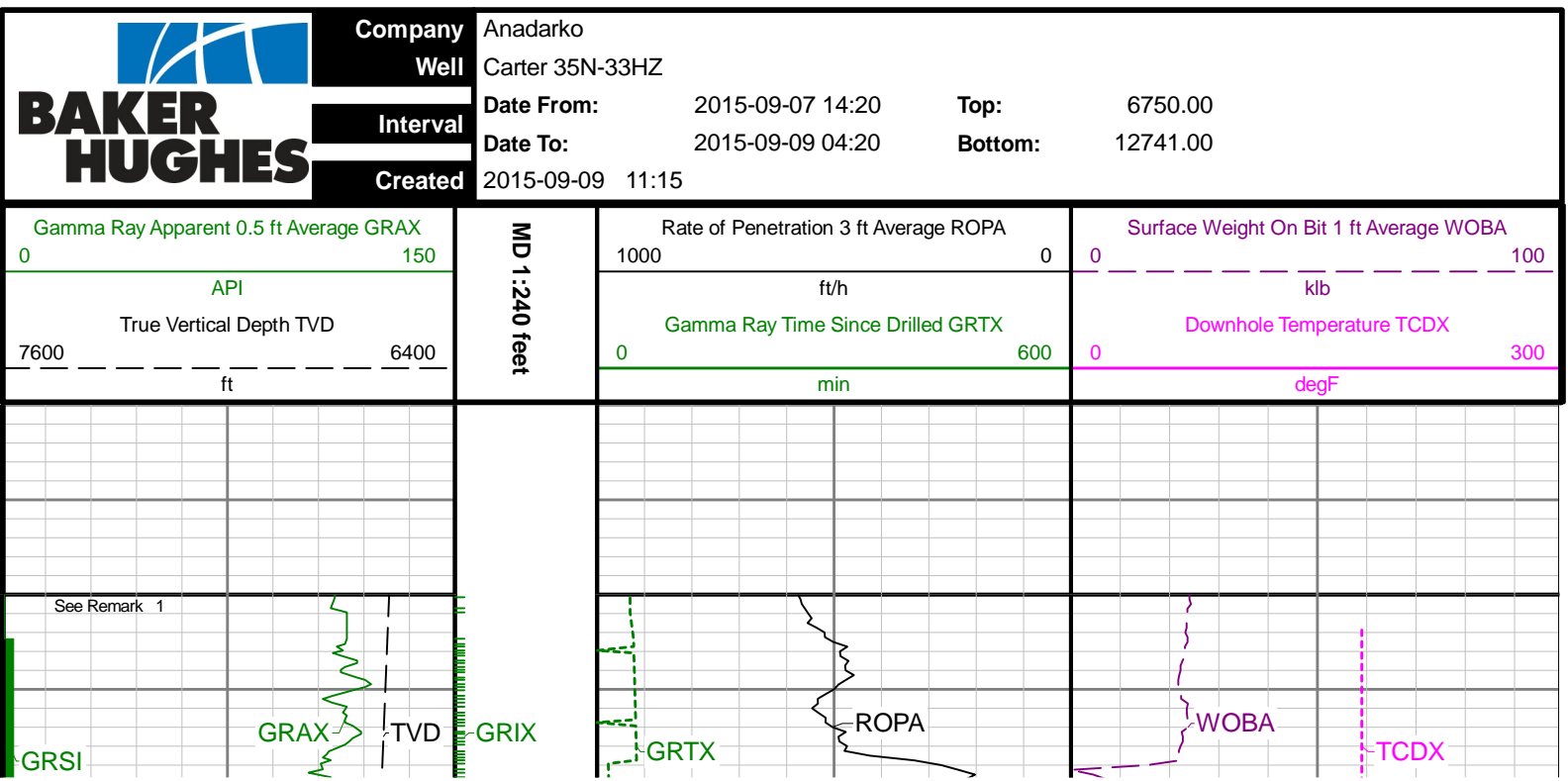
Comments

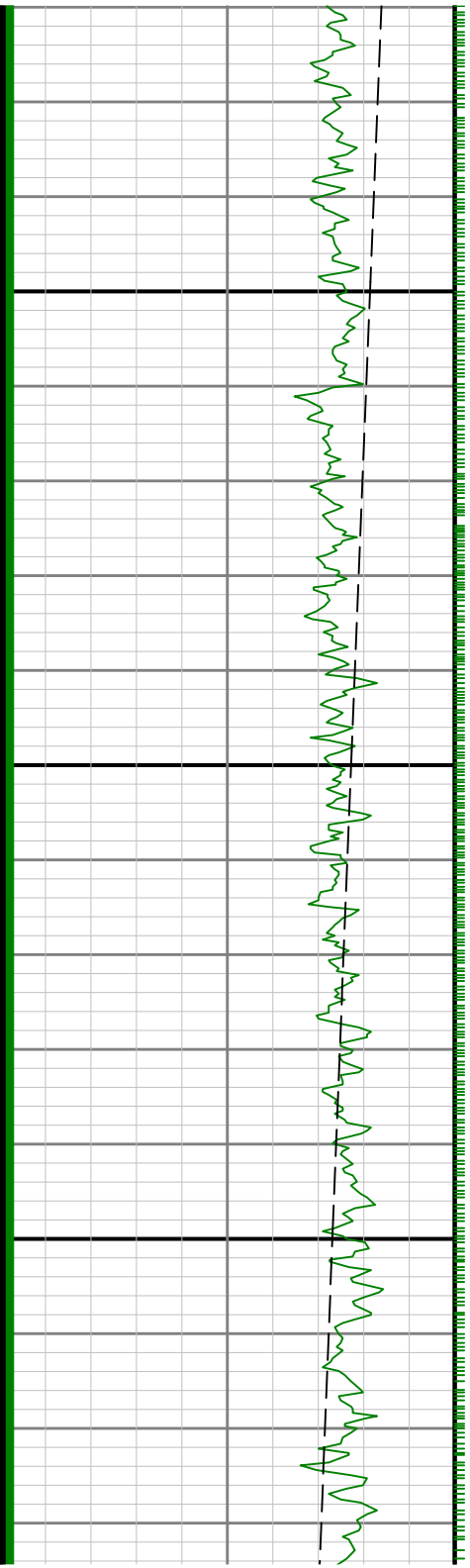
- 1
- Depth measurements were obtained from a depth control system not supplied or operated by baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified and the unverified depths as supplied to Baker Hughes are being used to represent logging data.
- 2
- Baker Hughes Run 1 utilized a 6 1/2 inch Navigamma (Directional and Gamma Ray) tool behind an 7 7/8 inch bit and steerable assembly from 1881 to 12741 feet MD (1828.59 to 7261.03 feet TVD).
- 3
- A sliding indicator is shown on the left side of the track as a heavy line. This indicator has been depth-shifted to the Gamma Ray sensor offset to correspond with Gamma Ray data acquired while sliding.

Remarks				
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	6750.00	7.875	1	Logging services began at 6750 feet. No logging data prior to 6750 feet MD ( 6573.62 feet TVD) as per client request.
2	12741.00	7.875	1	The interval between 12691 to 12741 feet (7260.98 to 7261.03 feet TVD) has no GRAX, GRIX, GRTX values due to Gamma sensor offset to bit after TD.

Curve Mnemonics

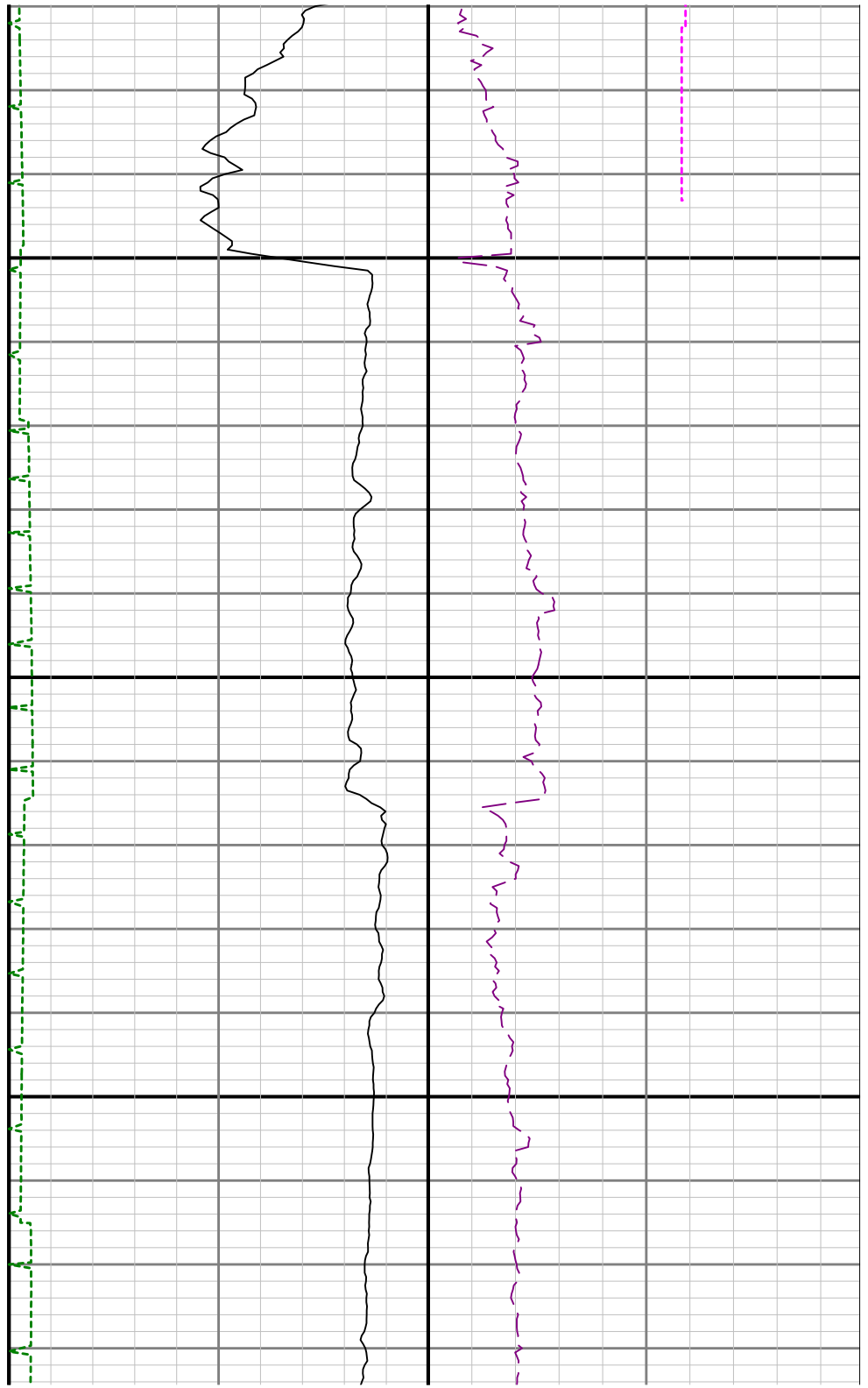
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
GRAX	Gamma Ray - Apparent 0.5 ft Average	API
GRIX	Gamma Ray - Data Point Indicator	unitless
GRTX	Gamma Time Since Drilled	min
GRSI	Sliding Indicator Flag	unitless
TCDX	Downhole Temperature	degF
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb

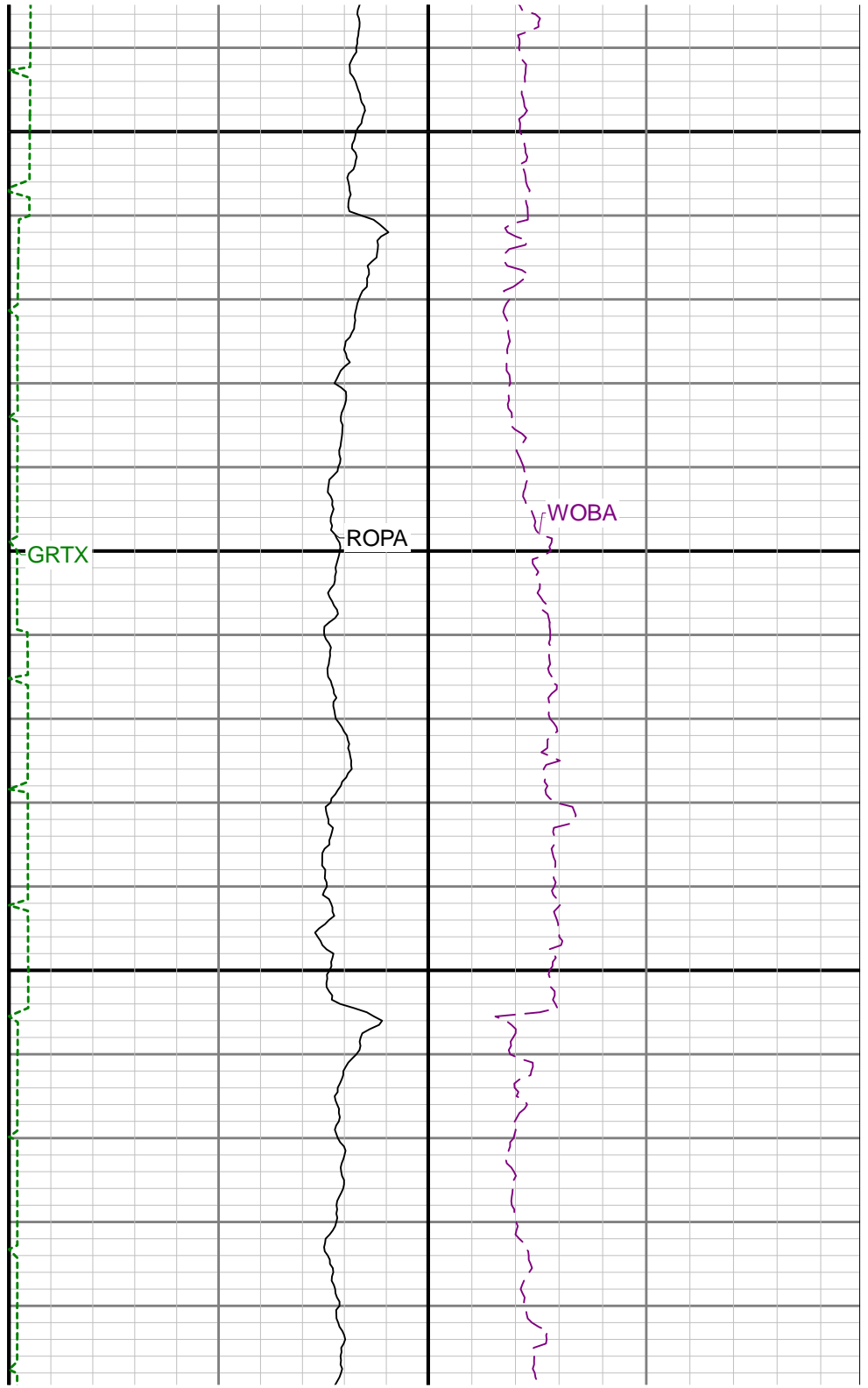
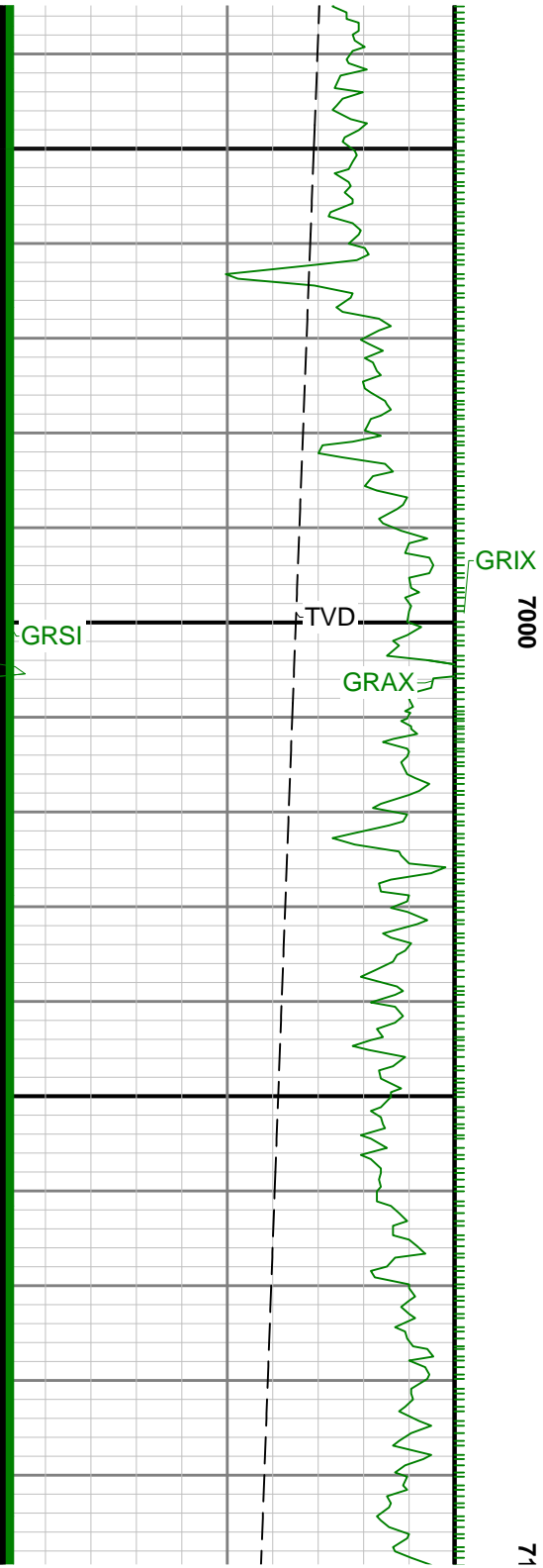


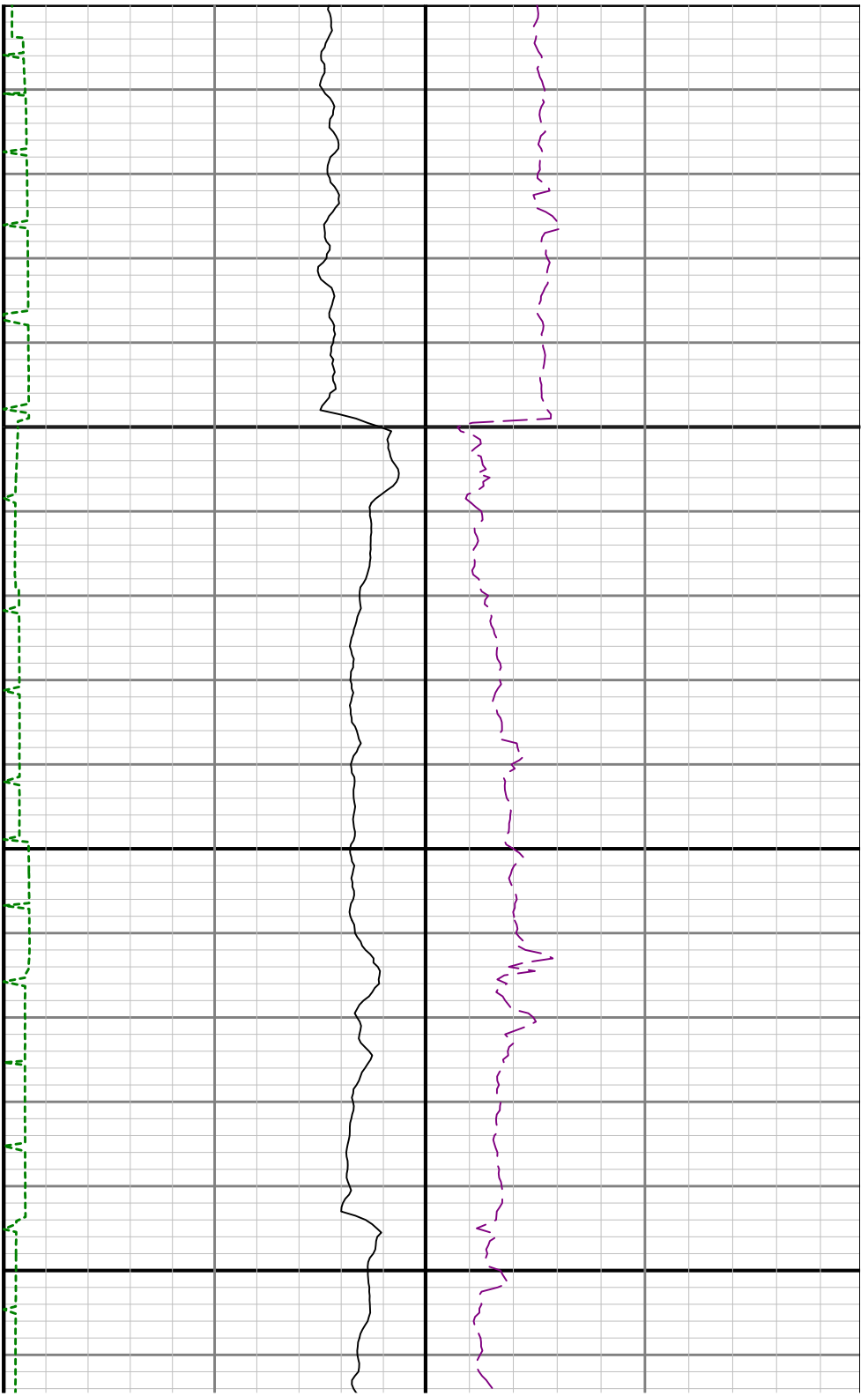


0069

0089

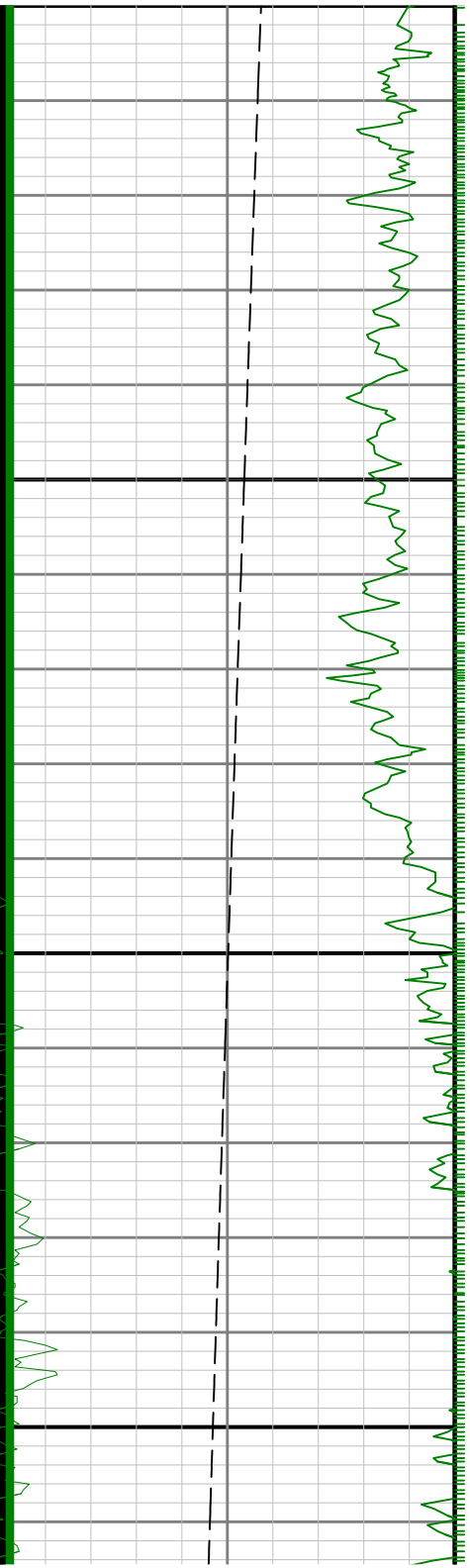


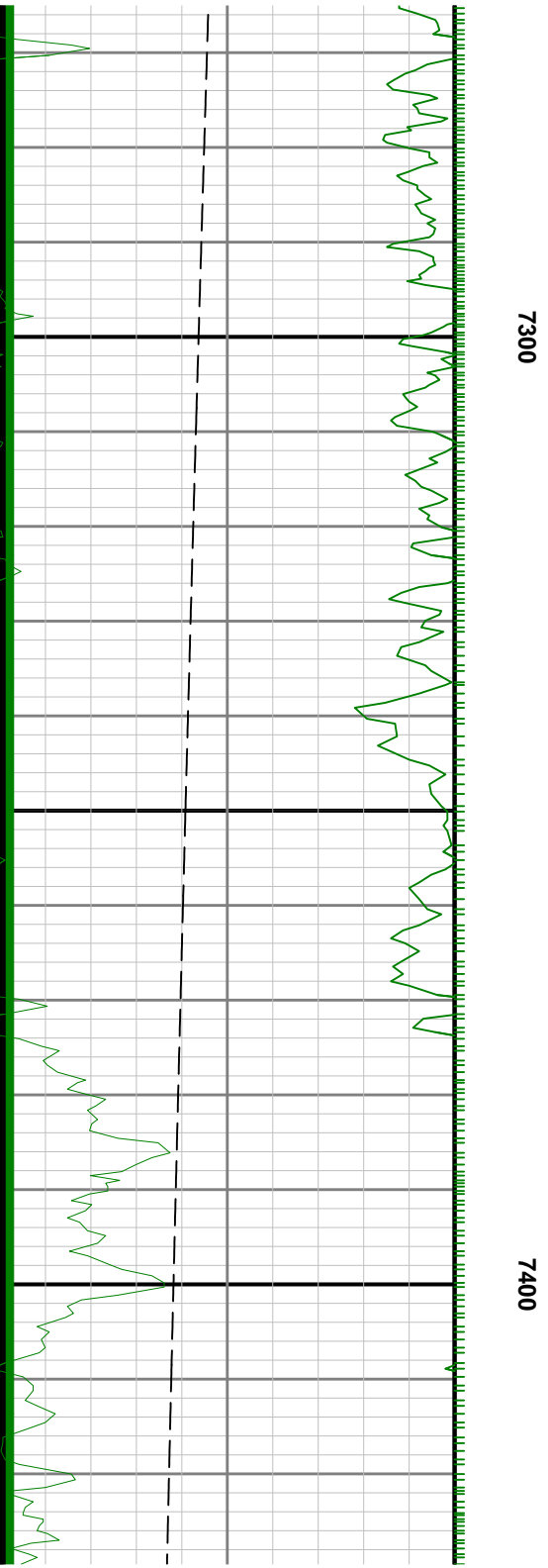
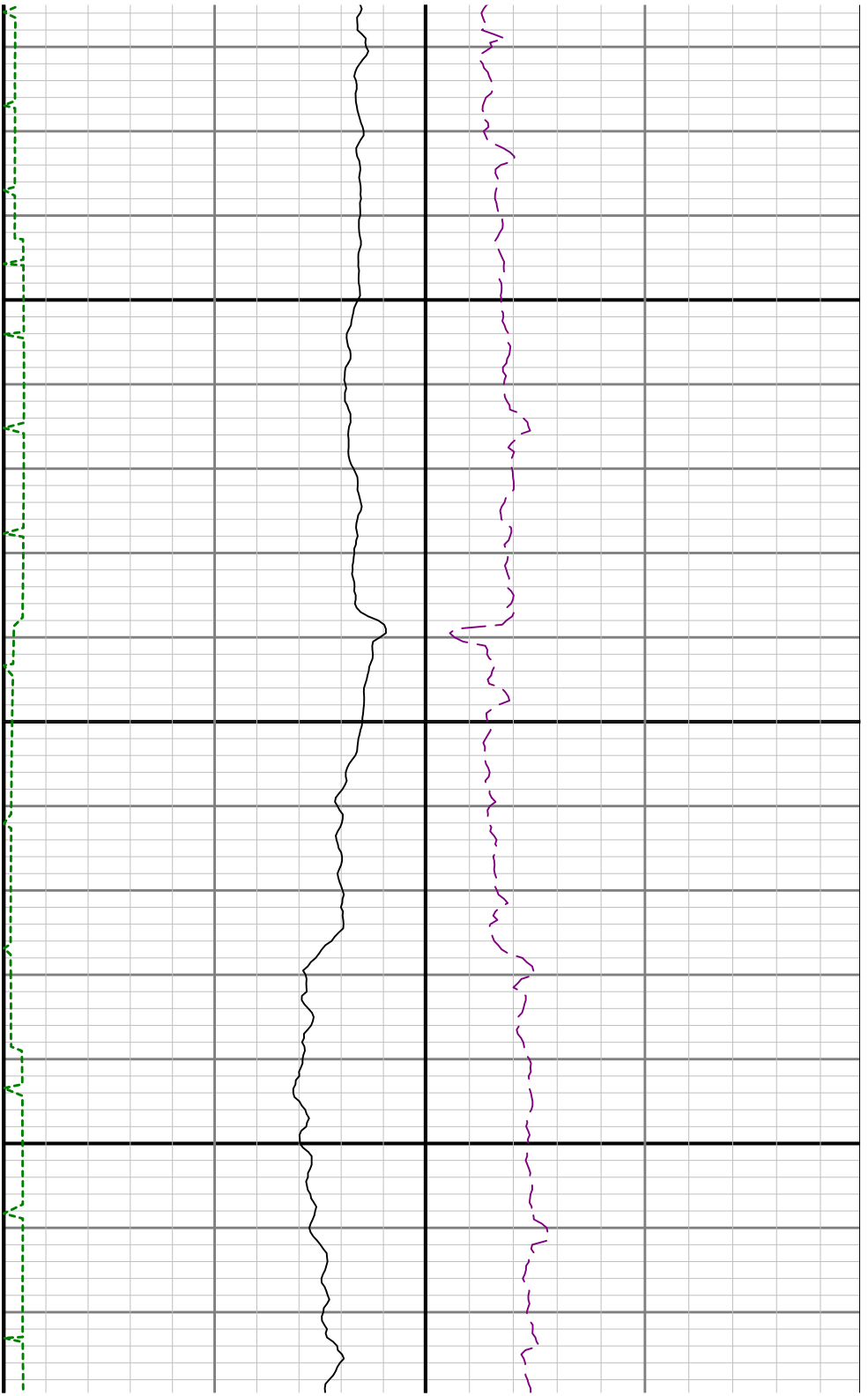


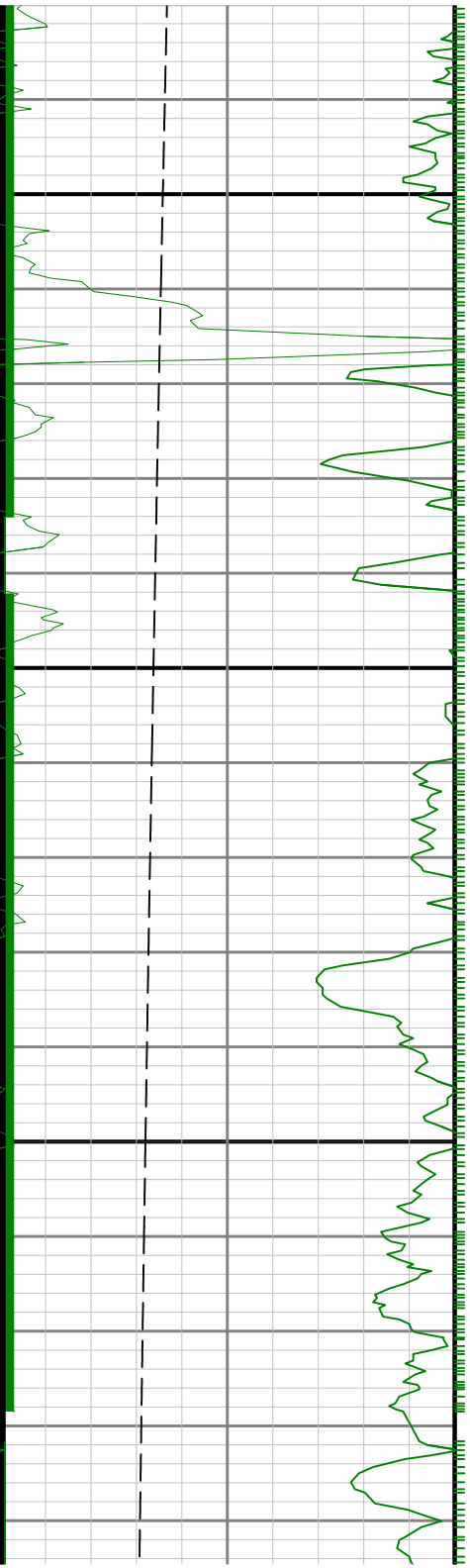


00

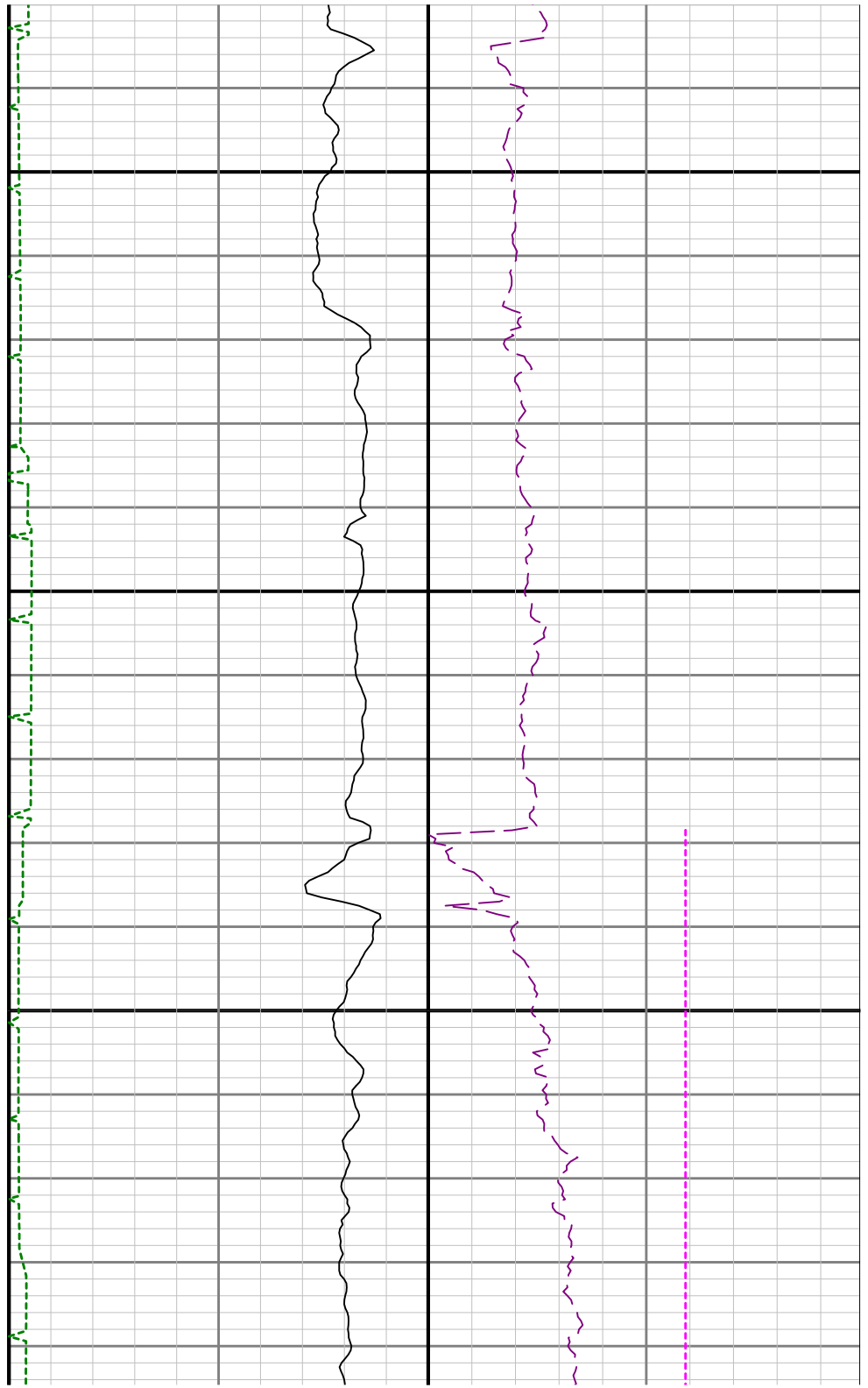
7200



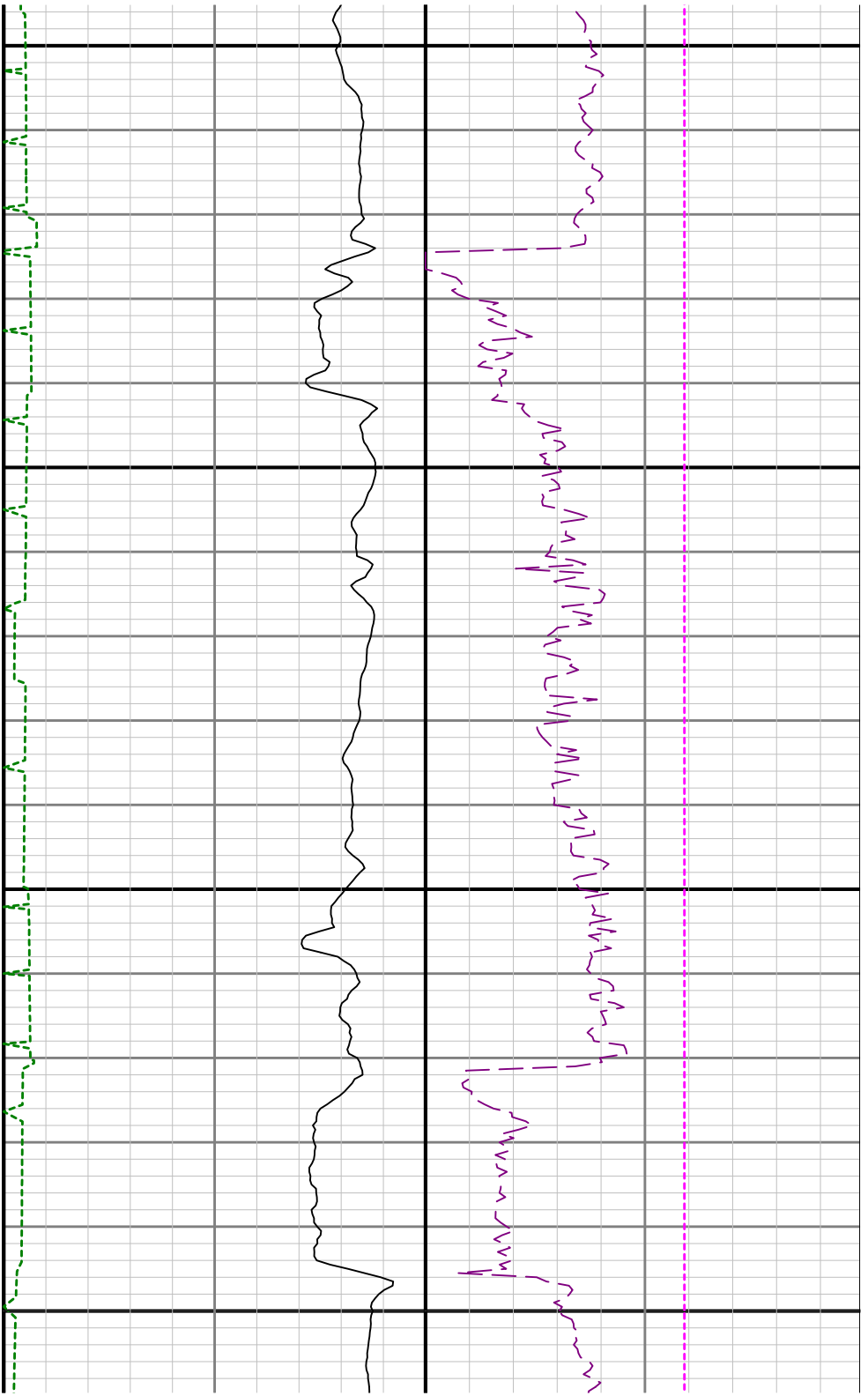




7500

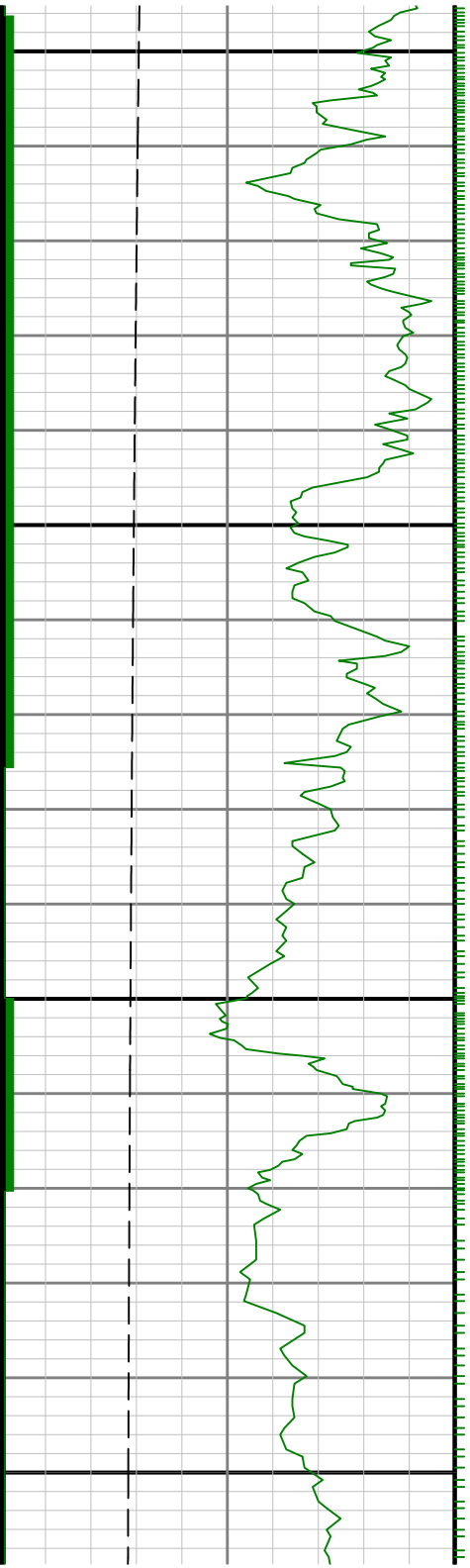


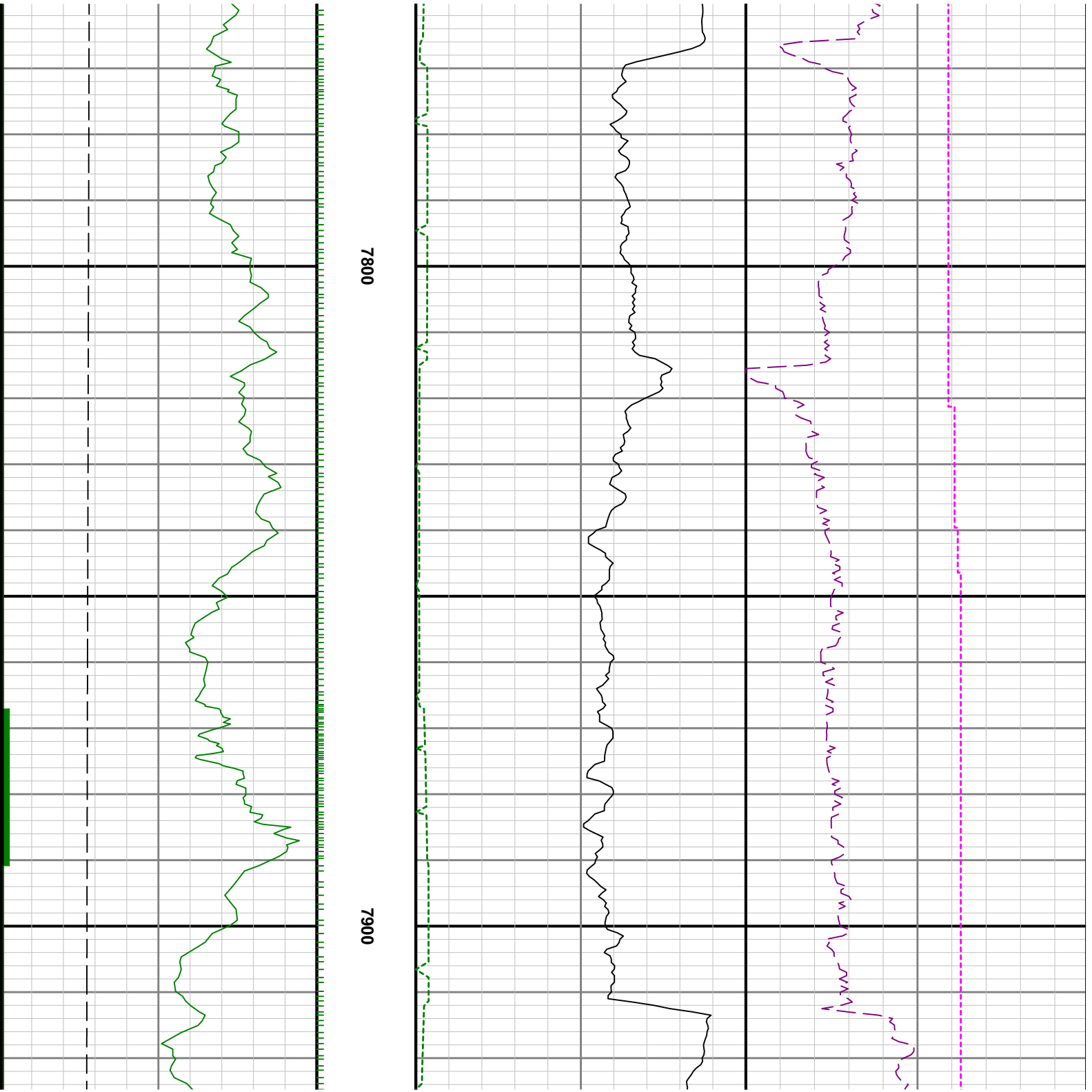


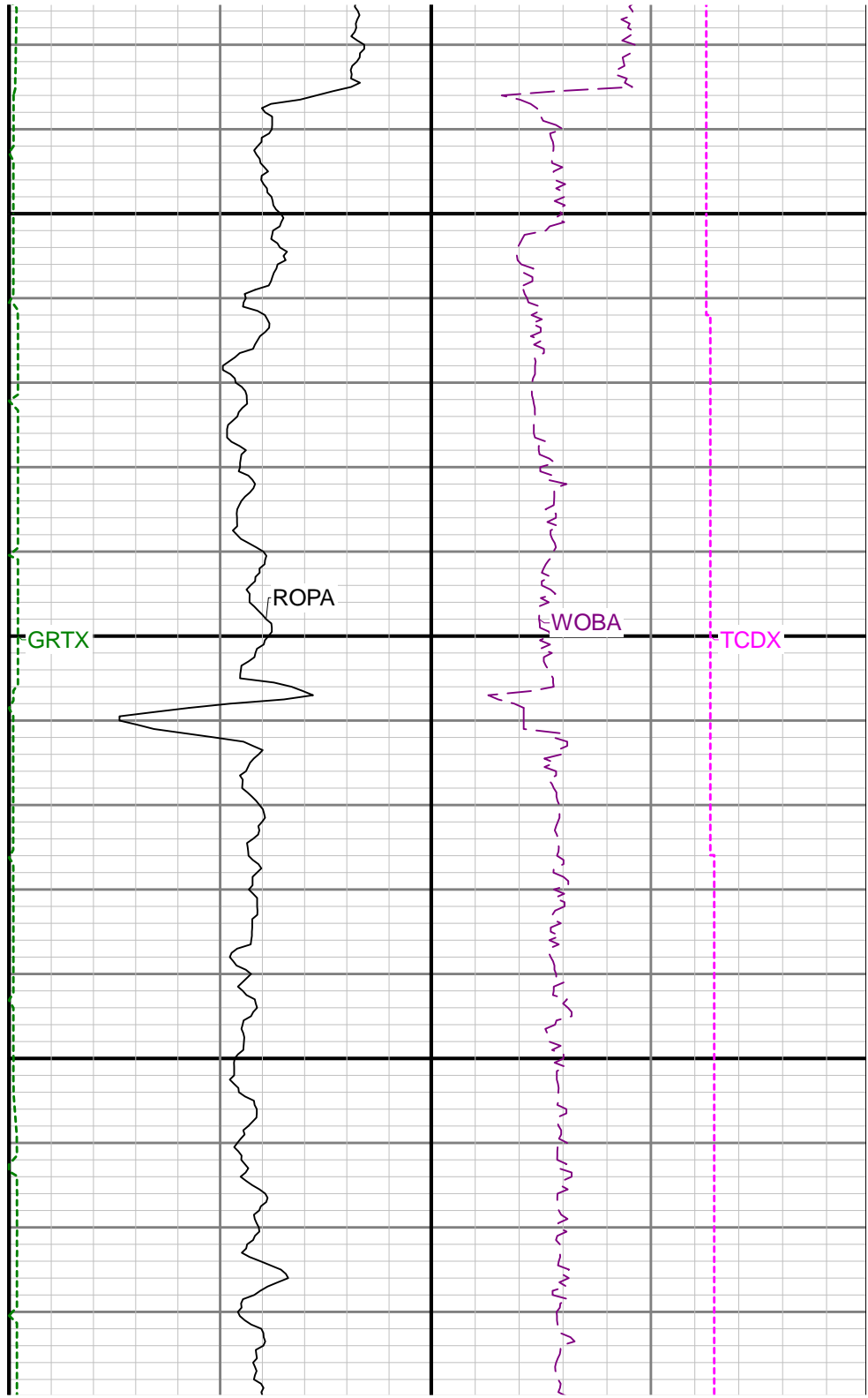
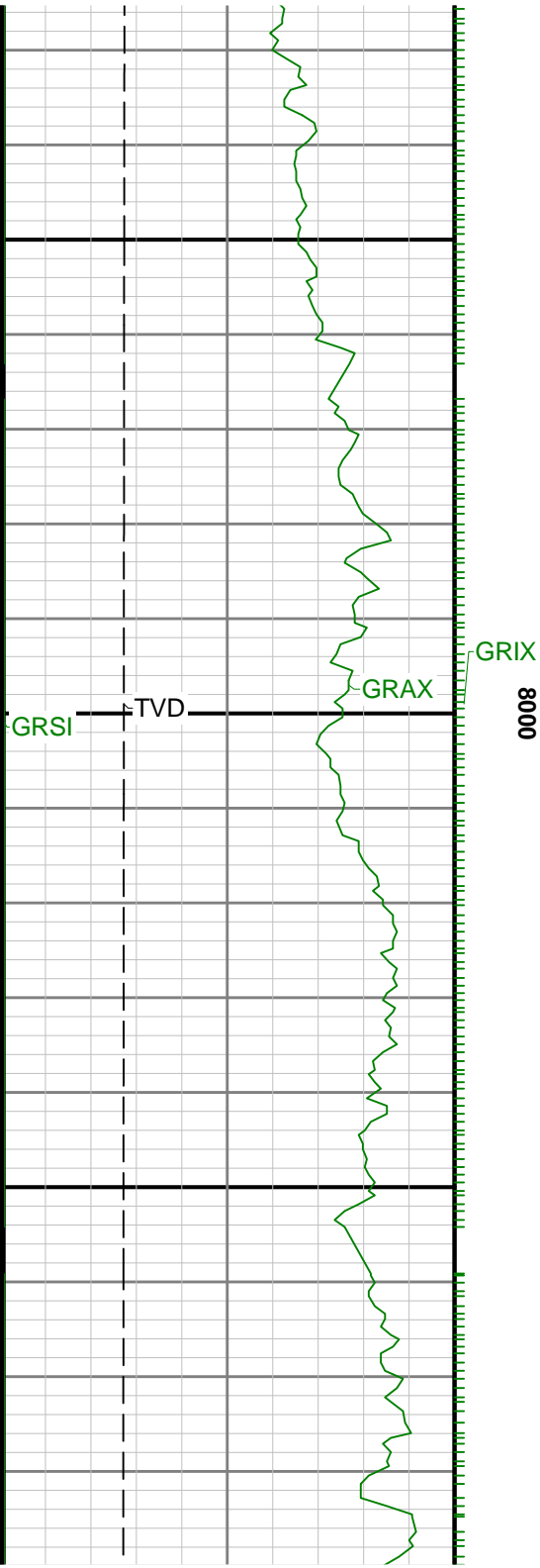


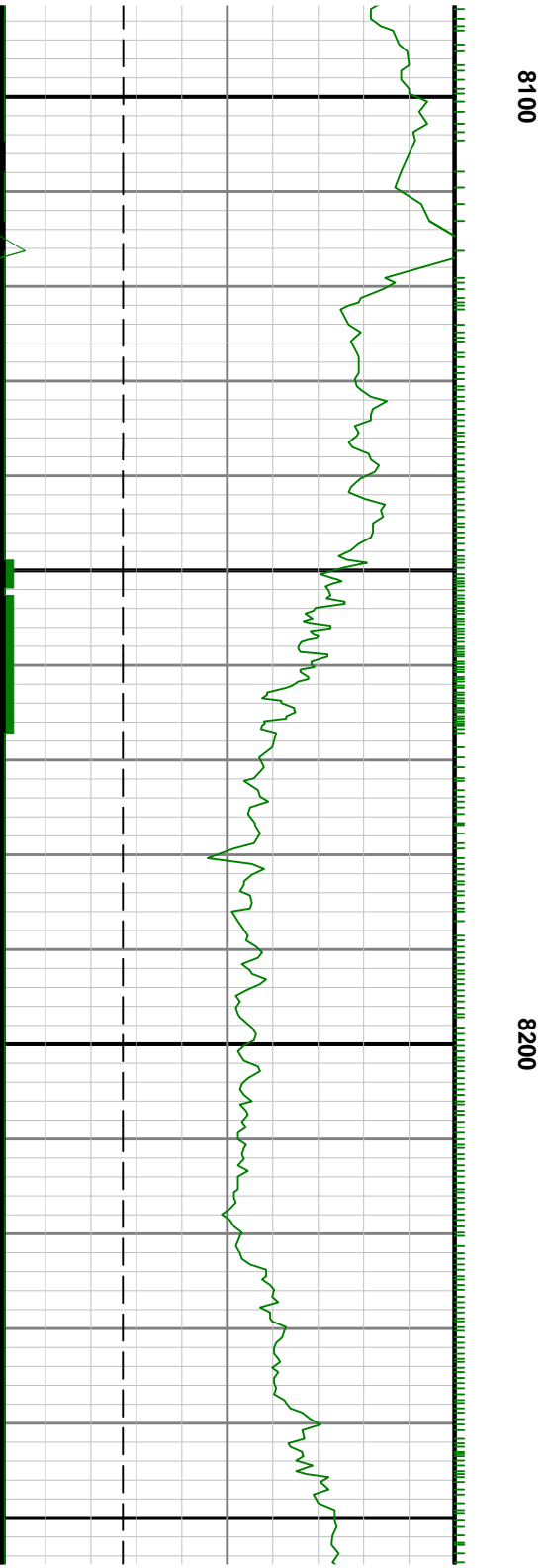
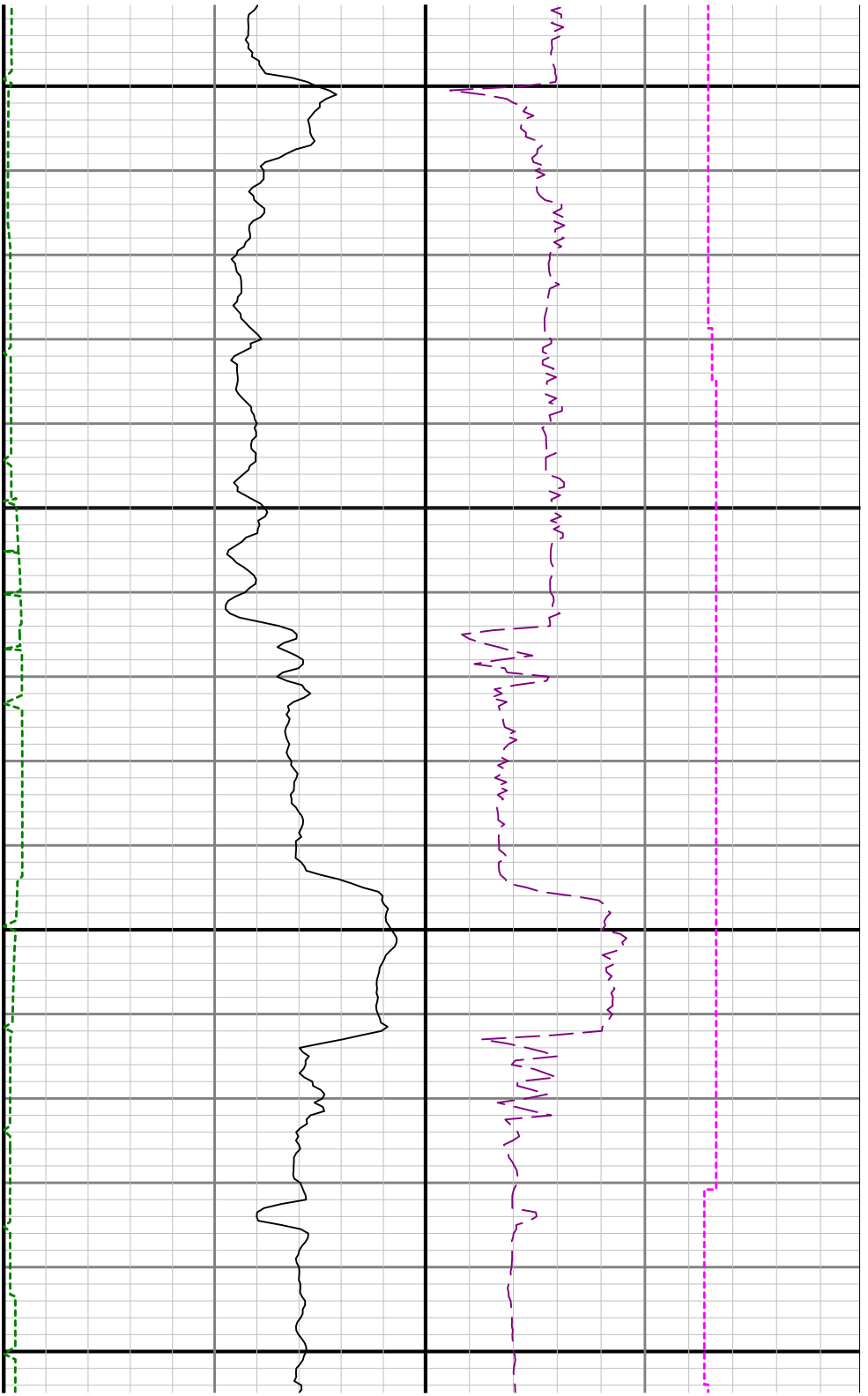
7600

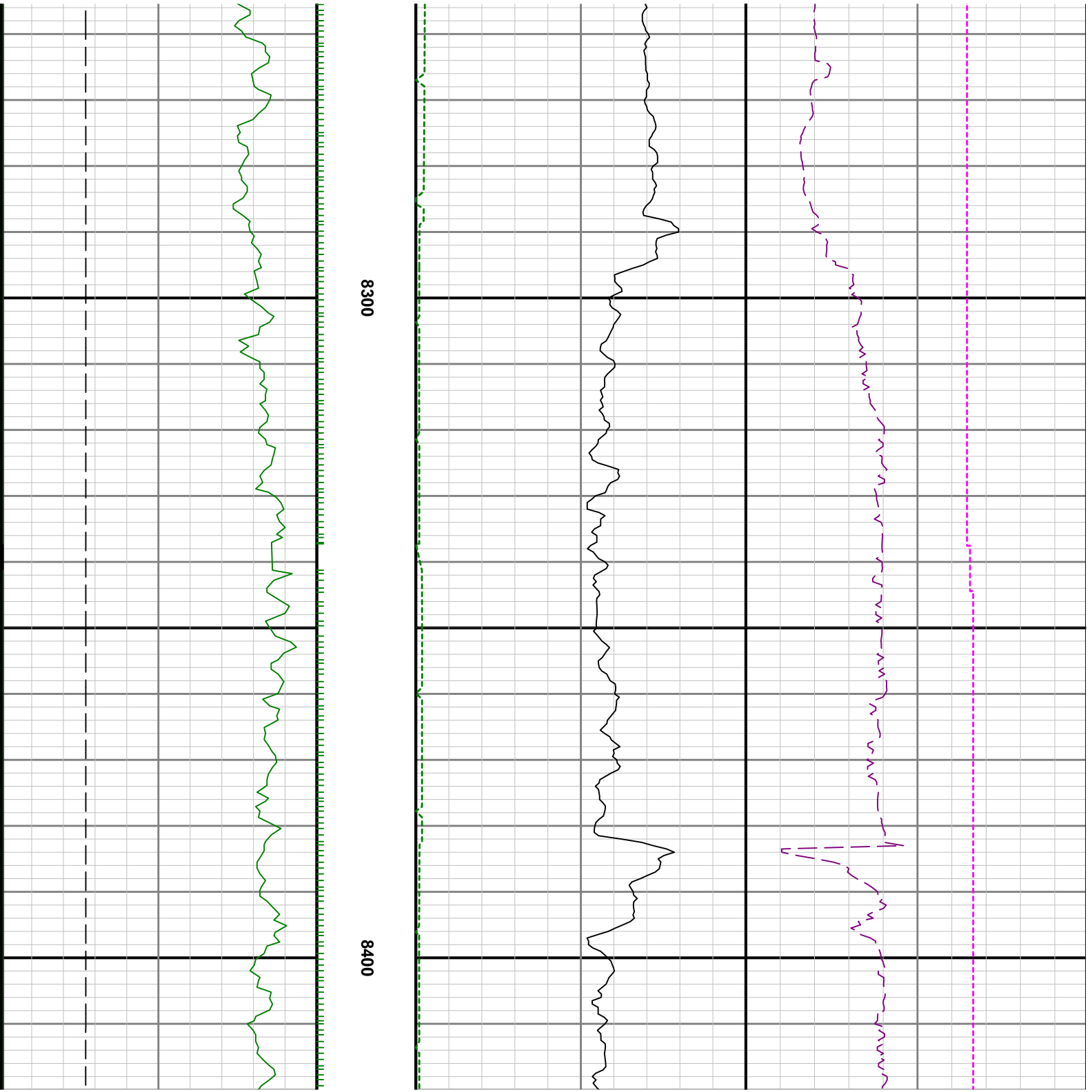
7700

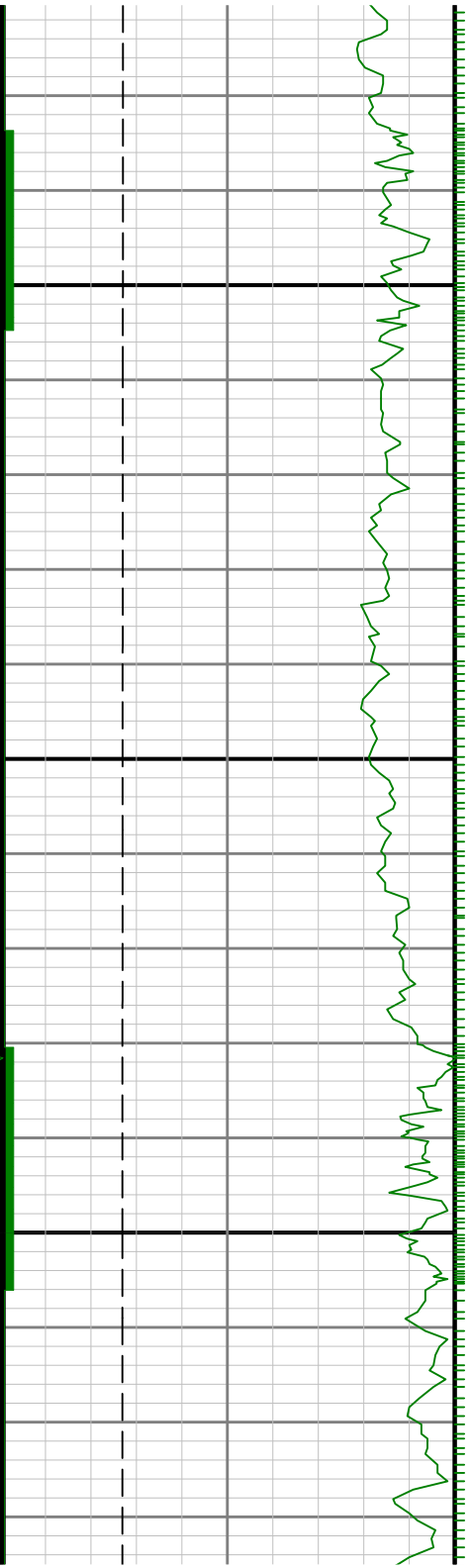




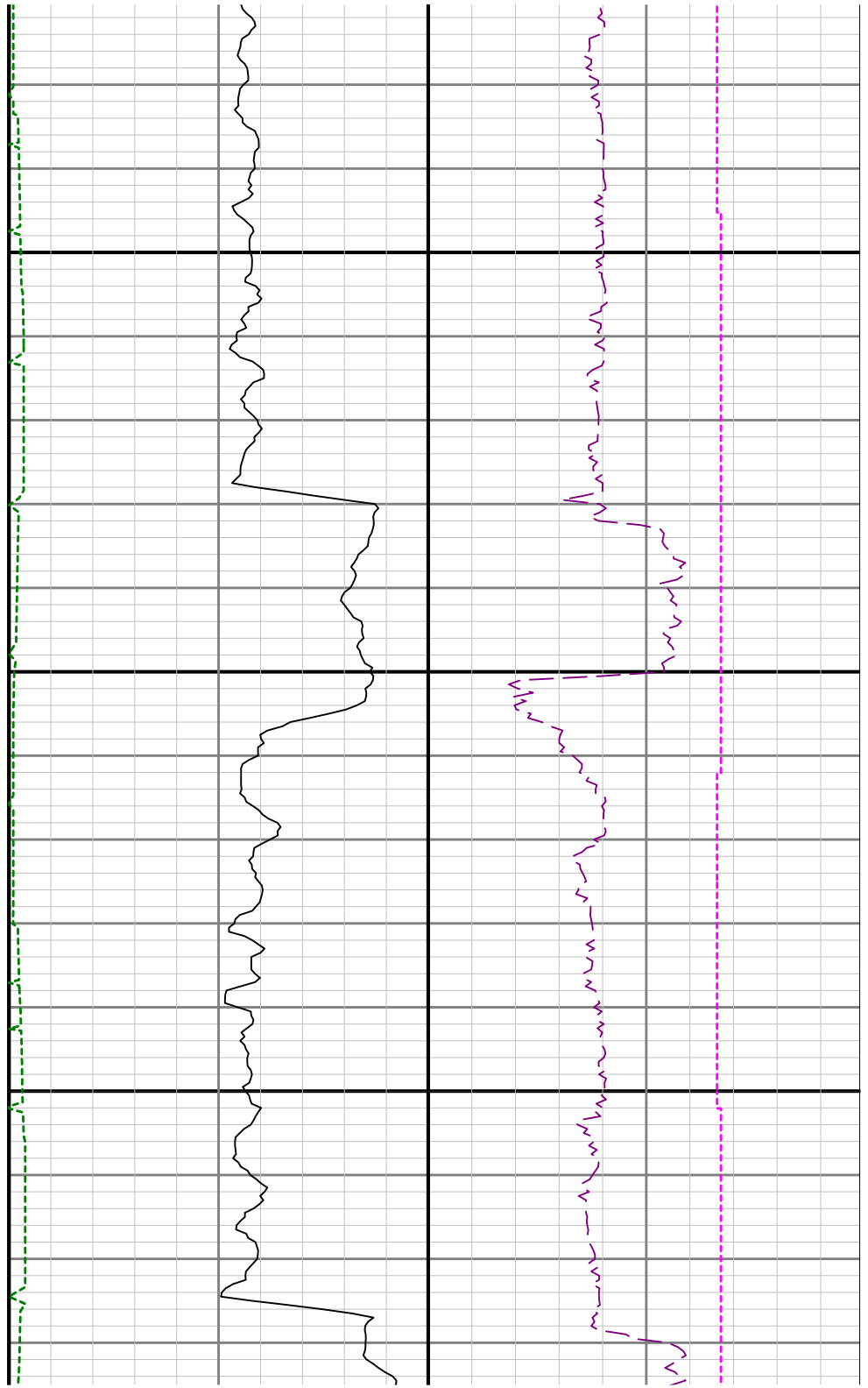


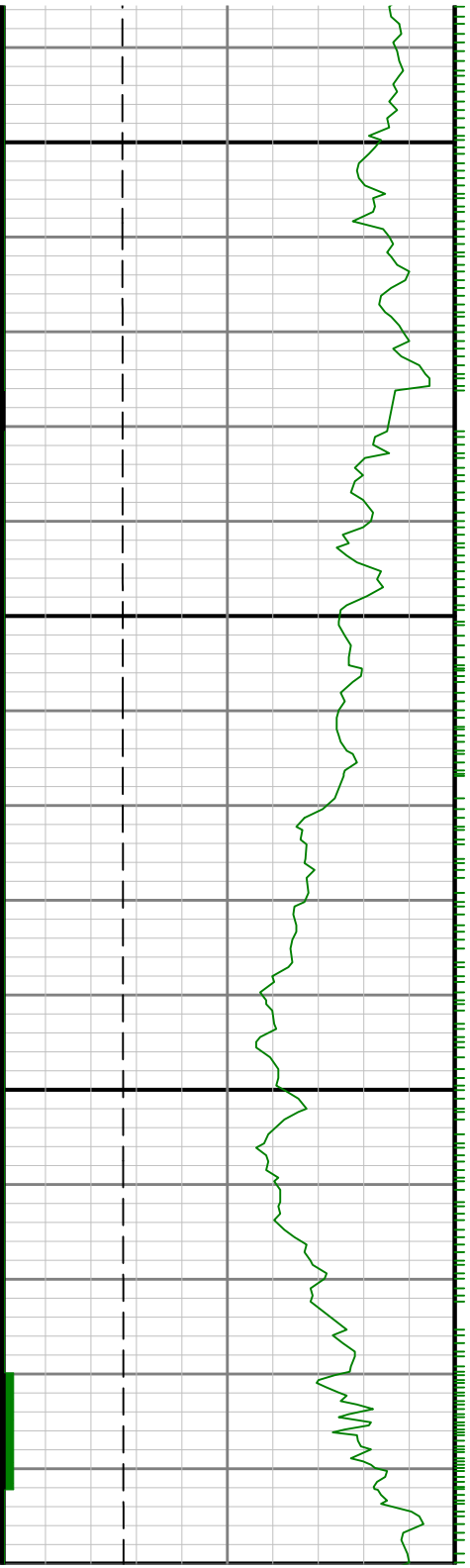






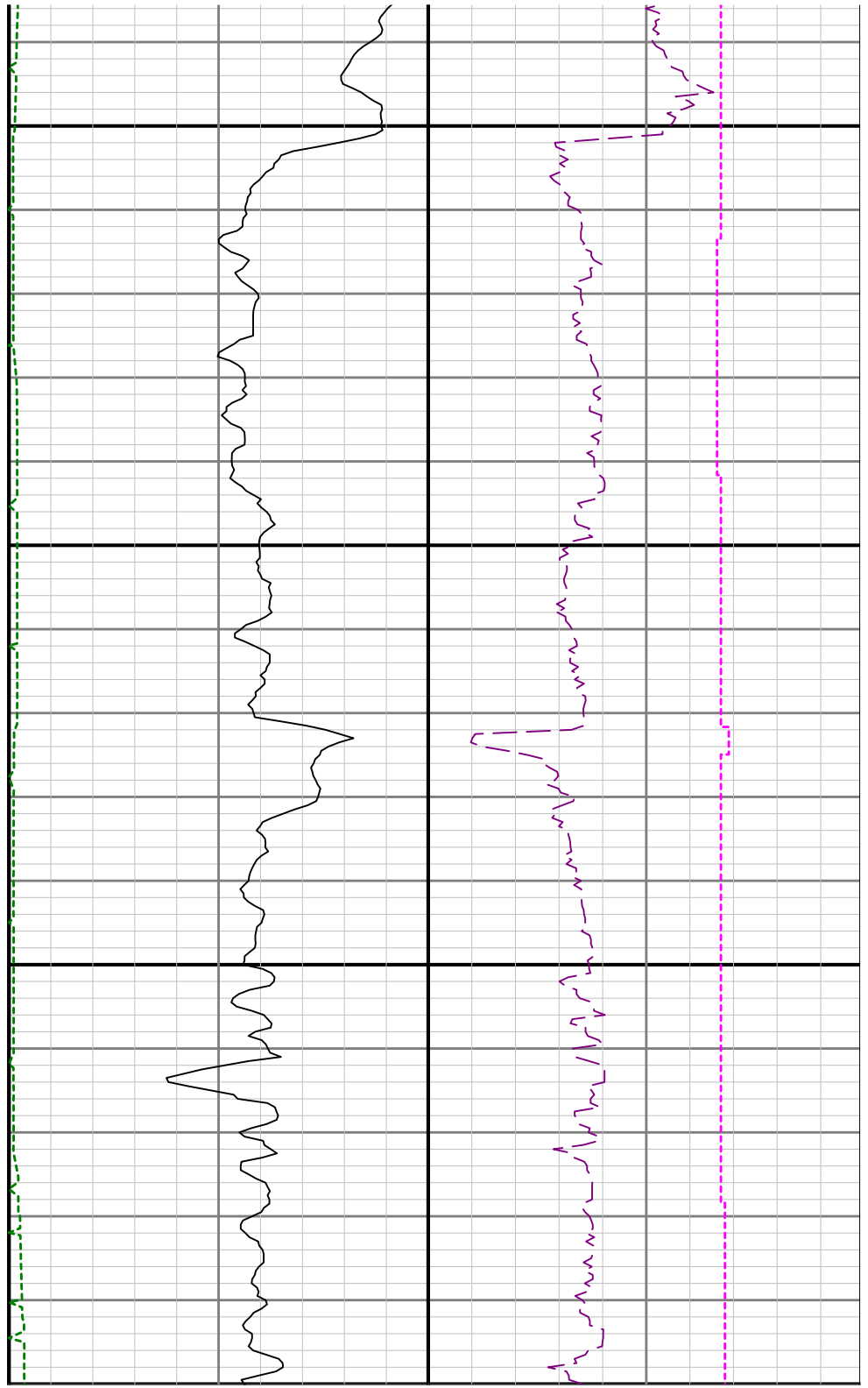
8500

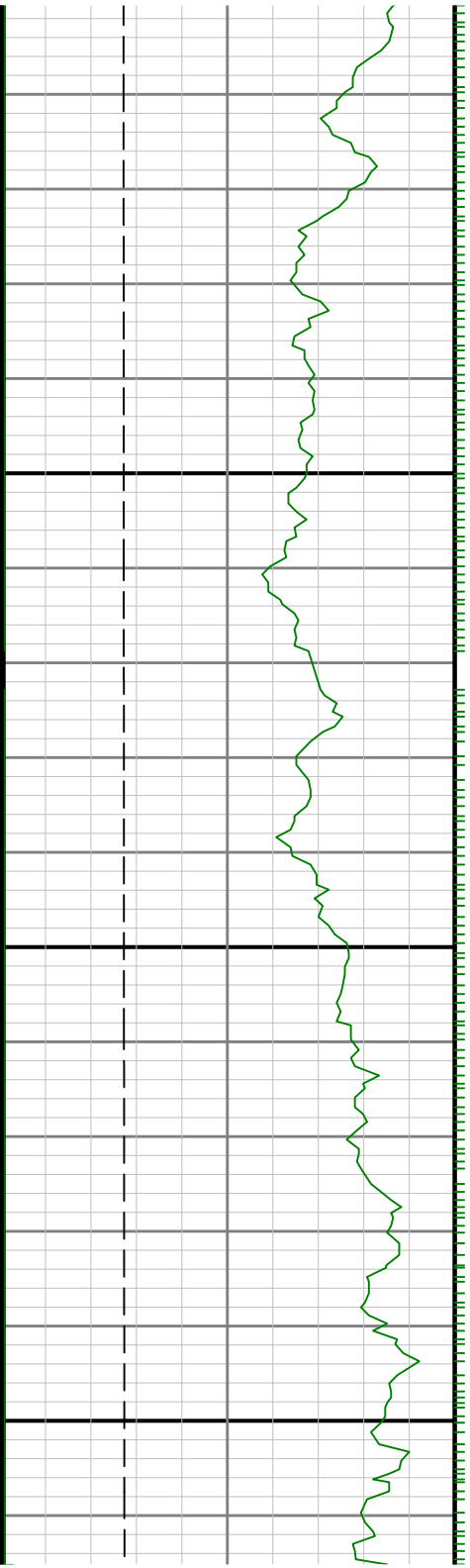




8600

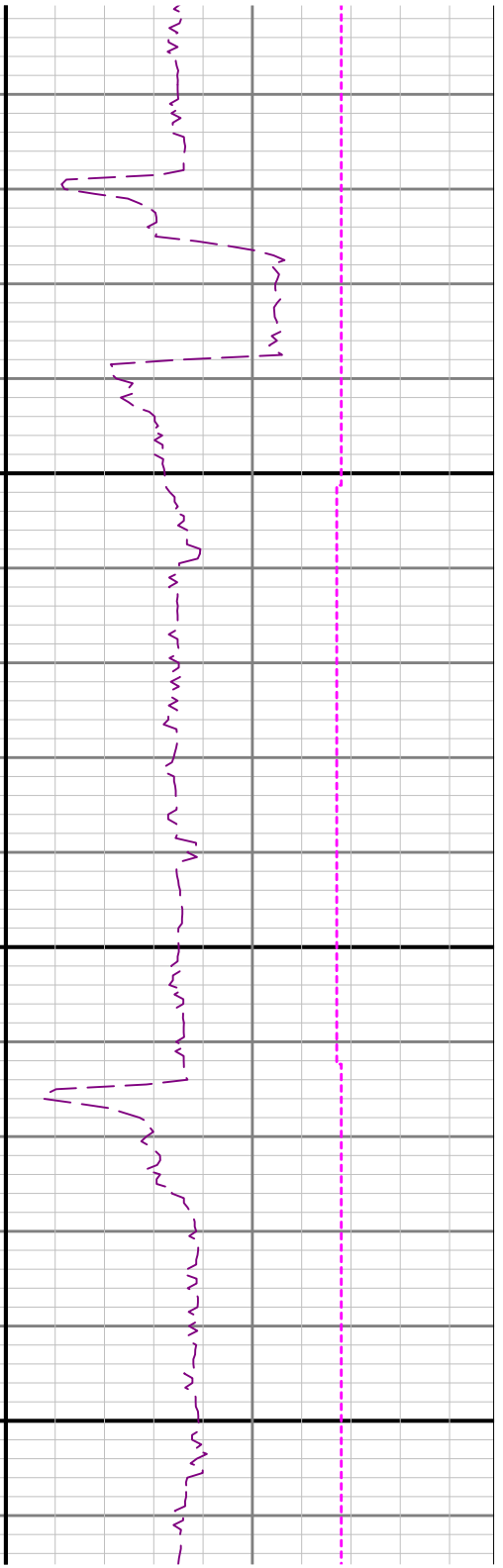
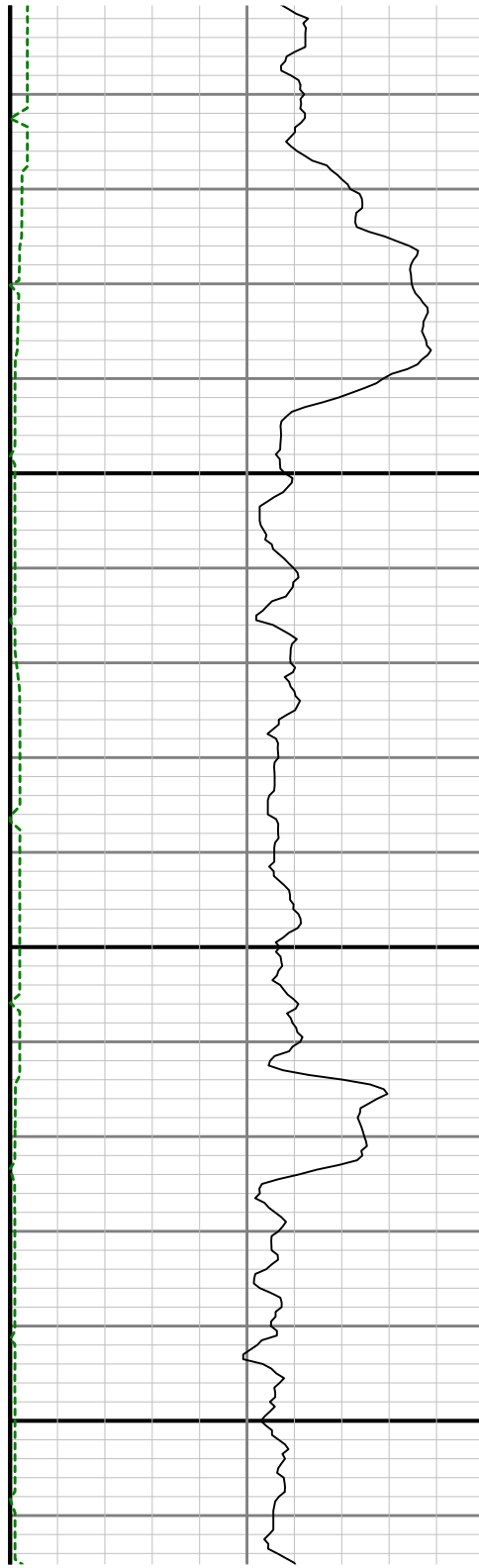
8700



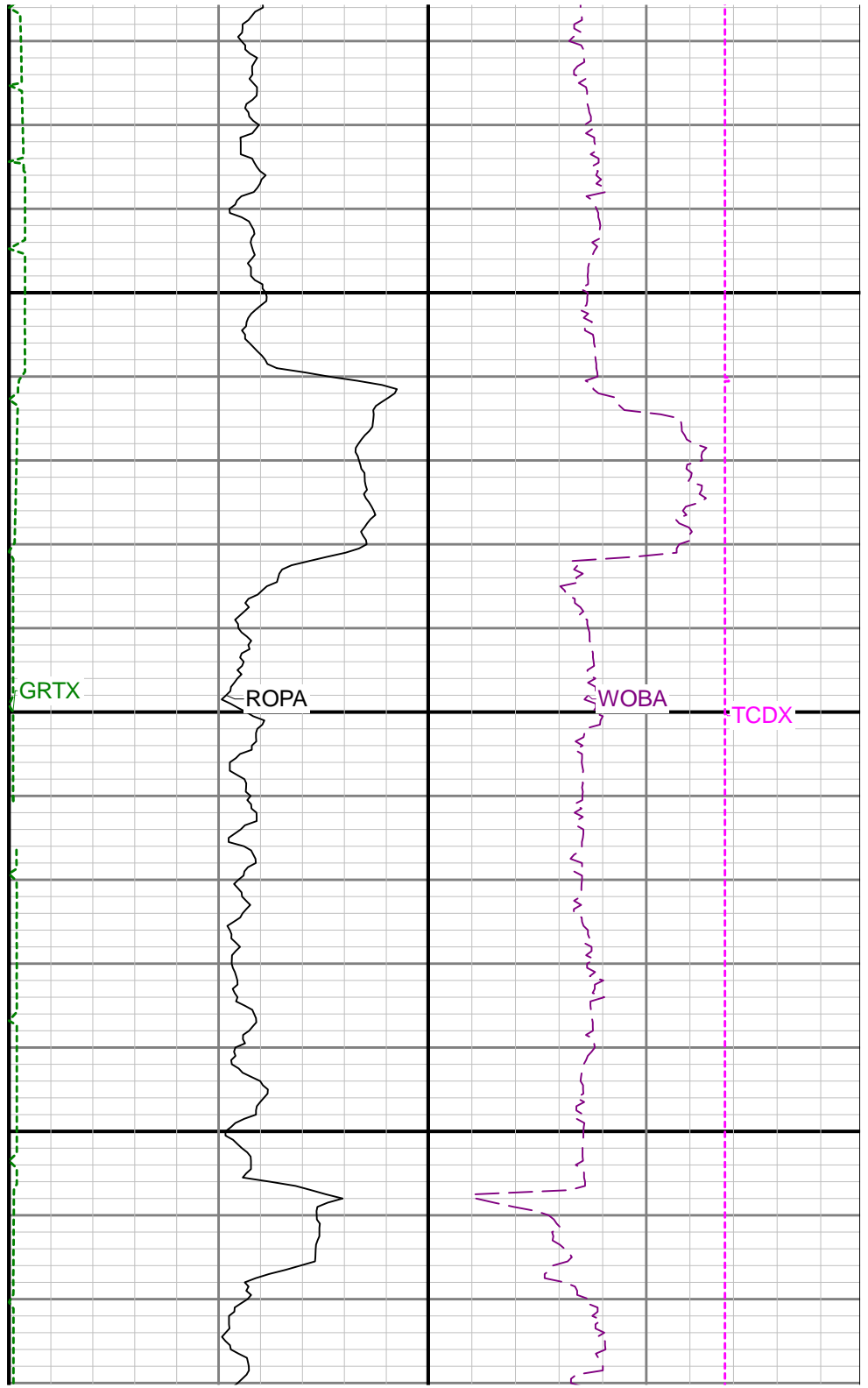
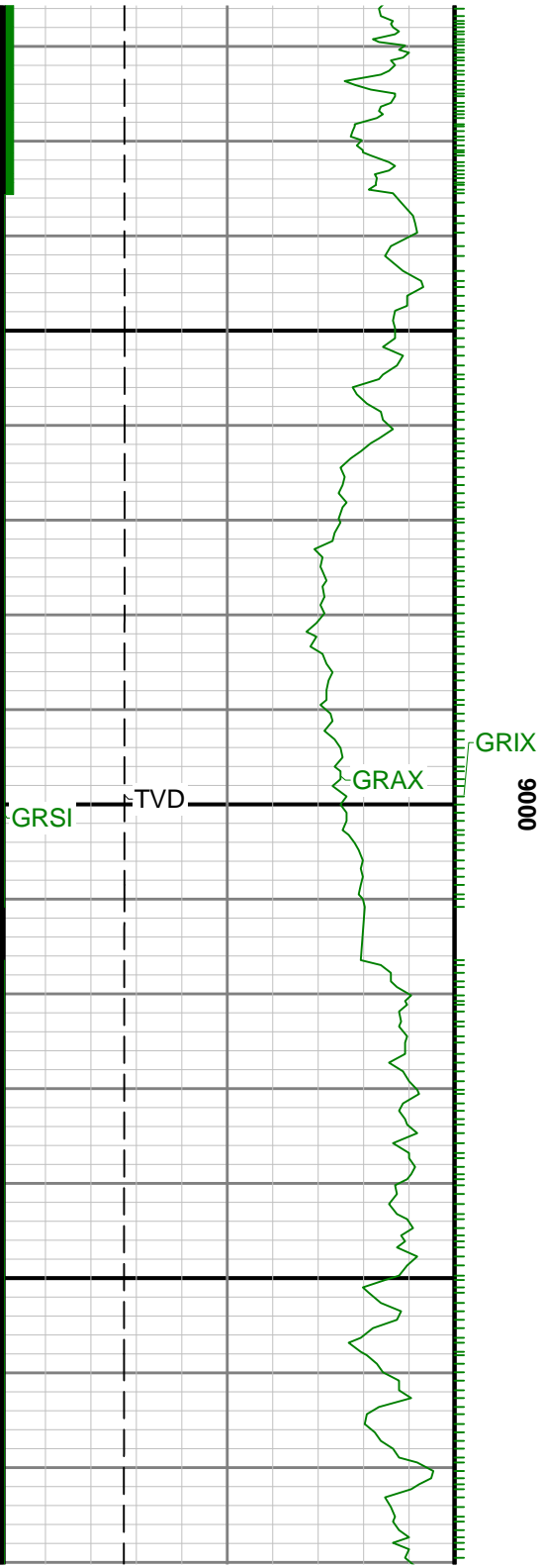


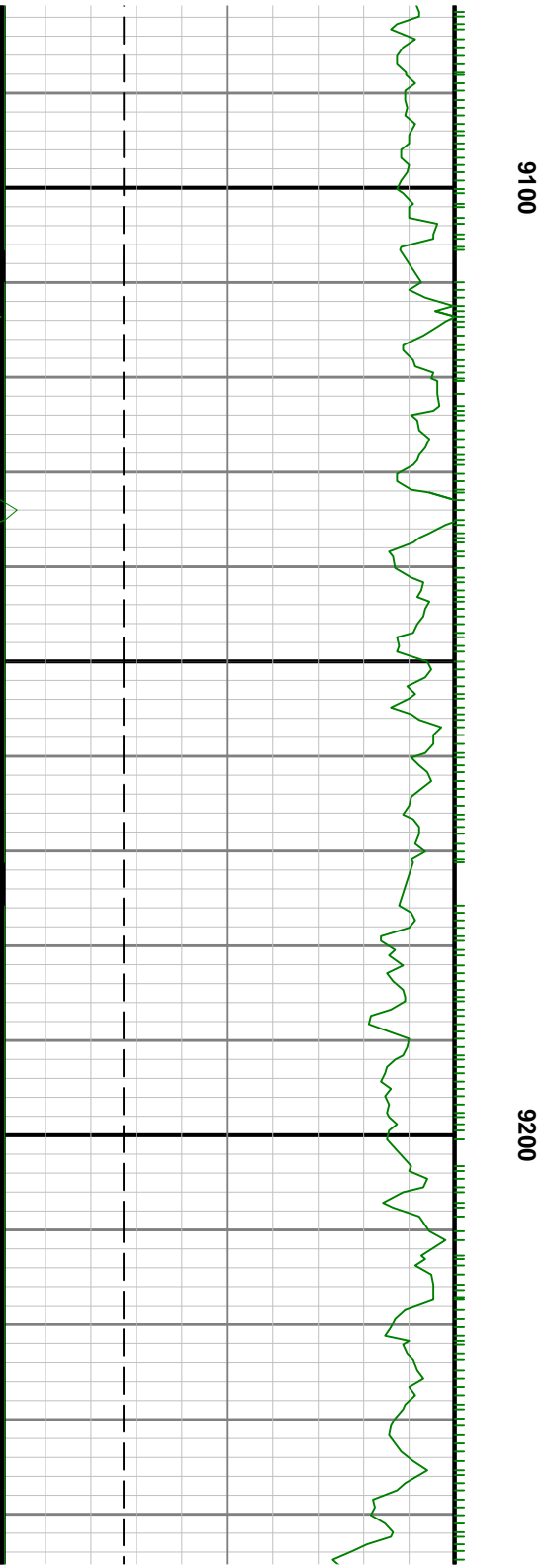
0068

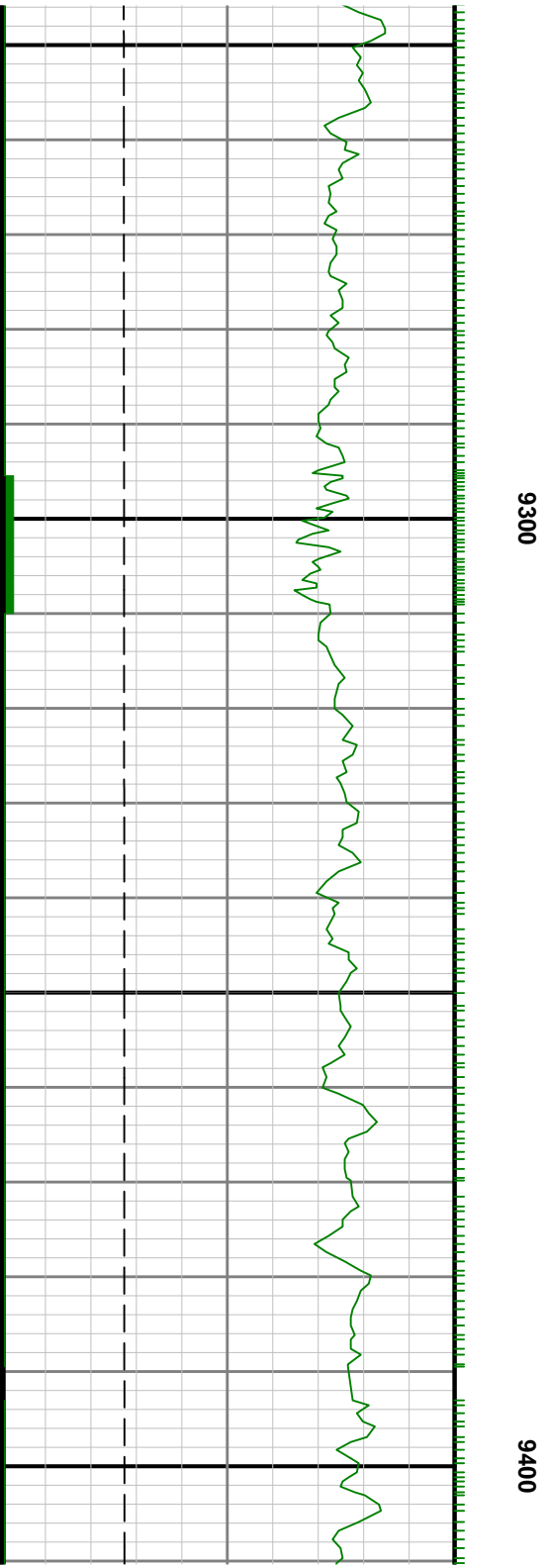
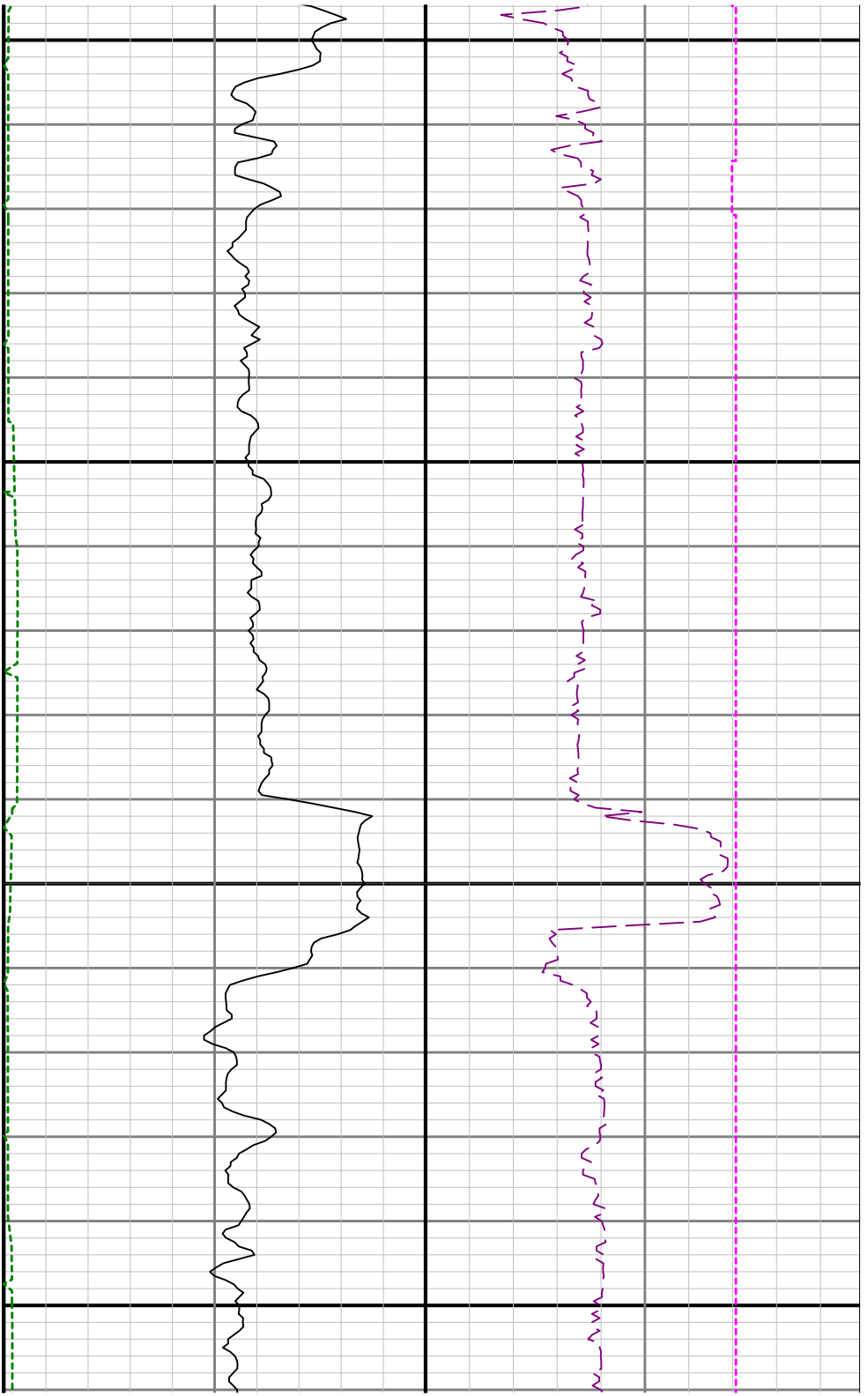
0088

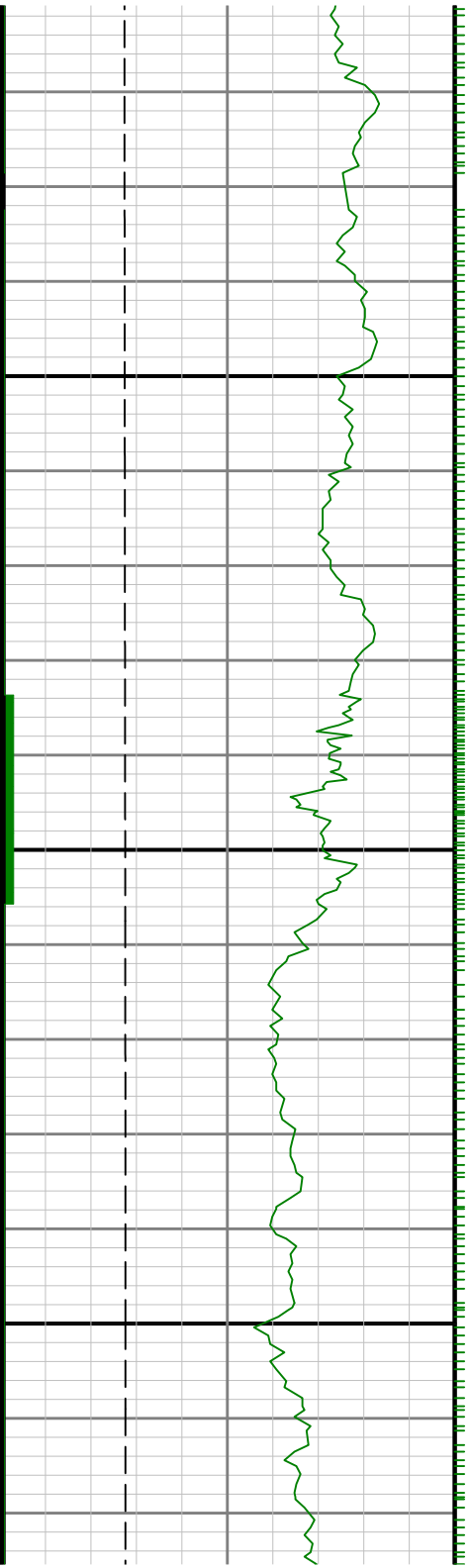




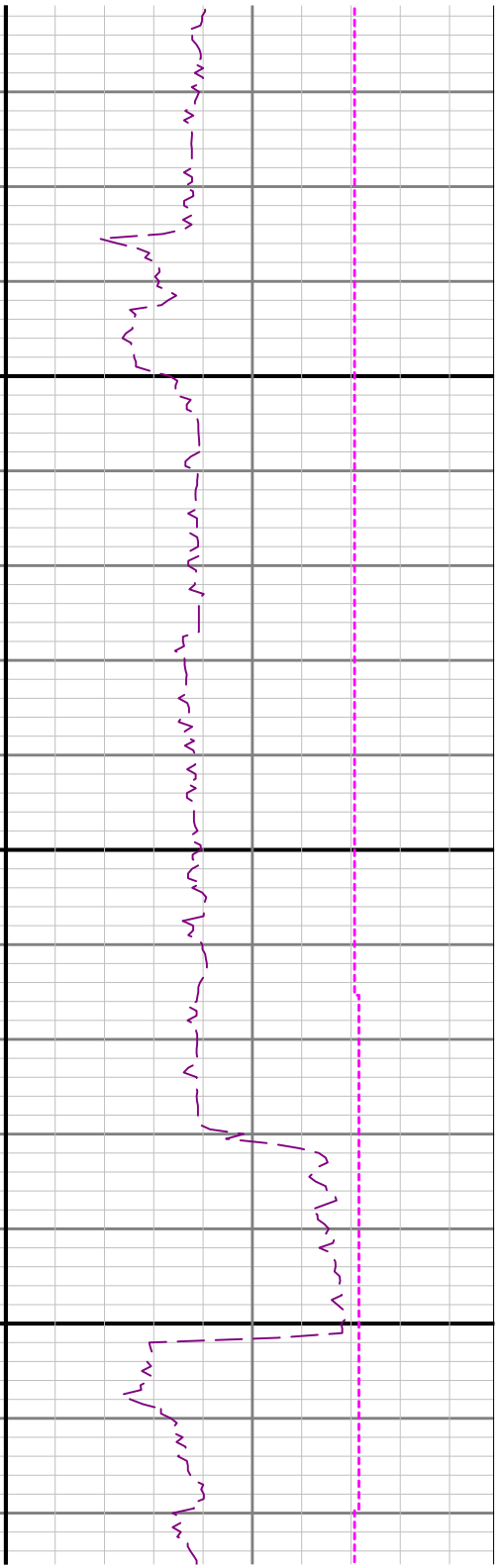
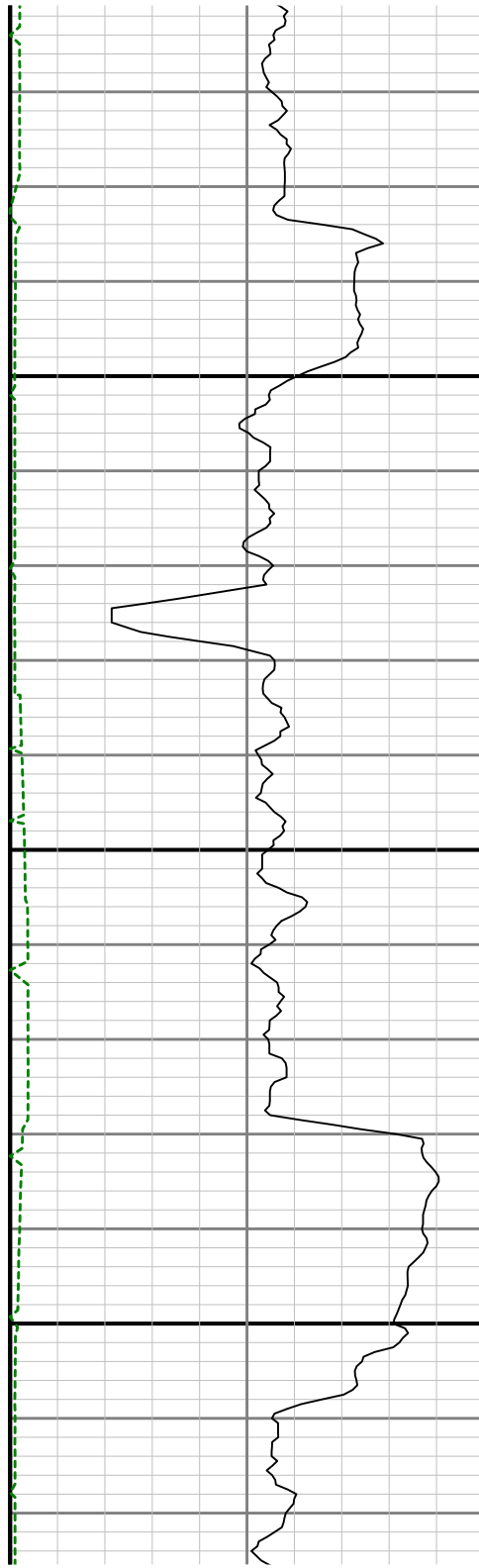


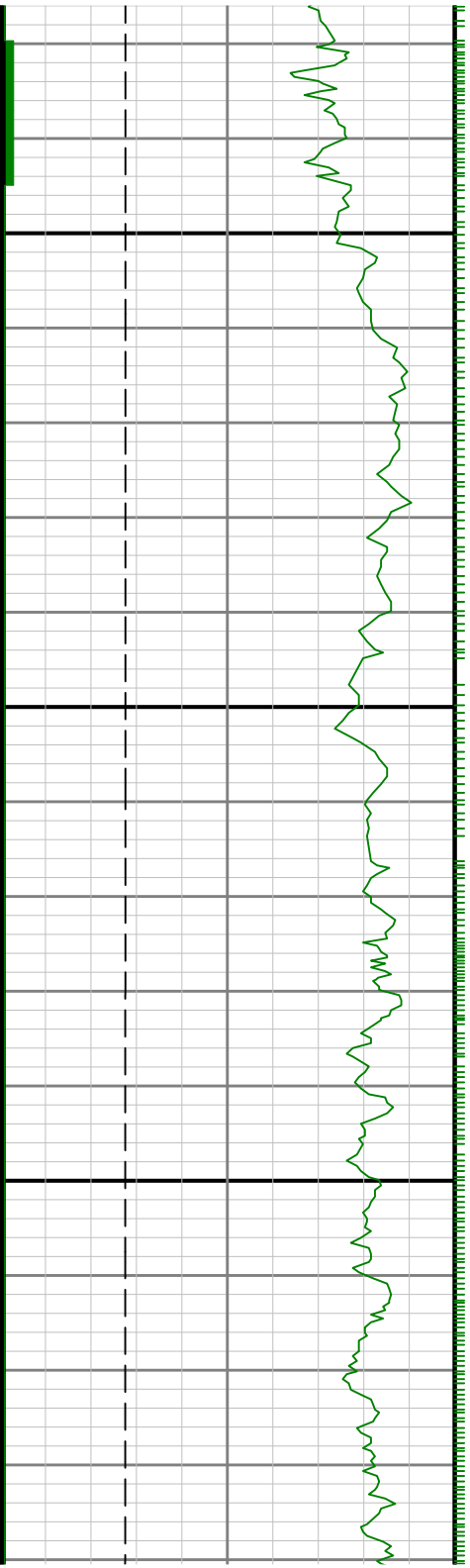






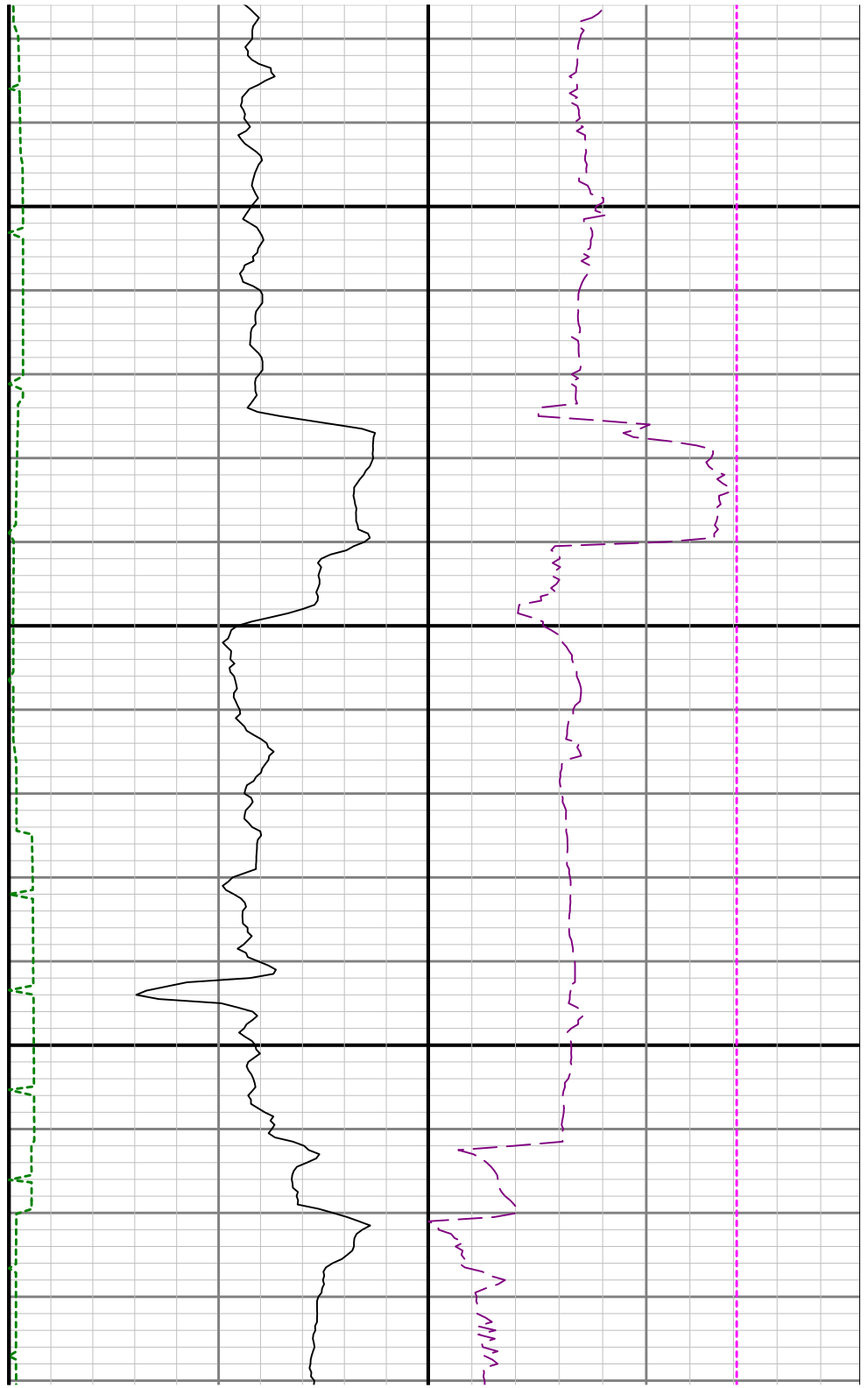
9500

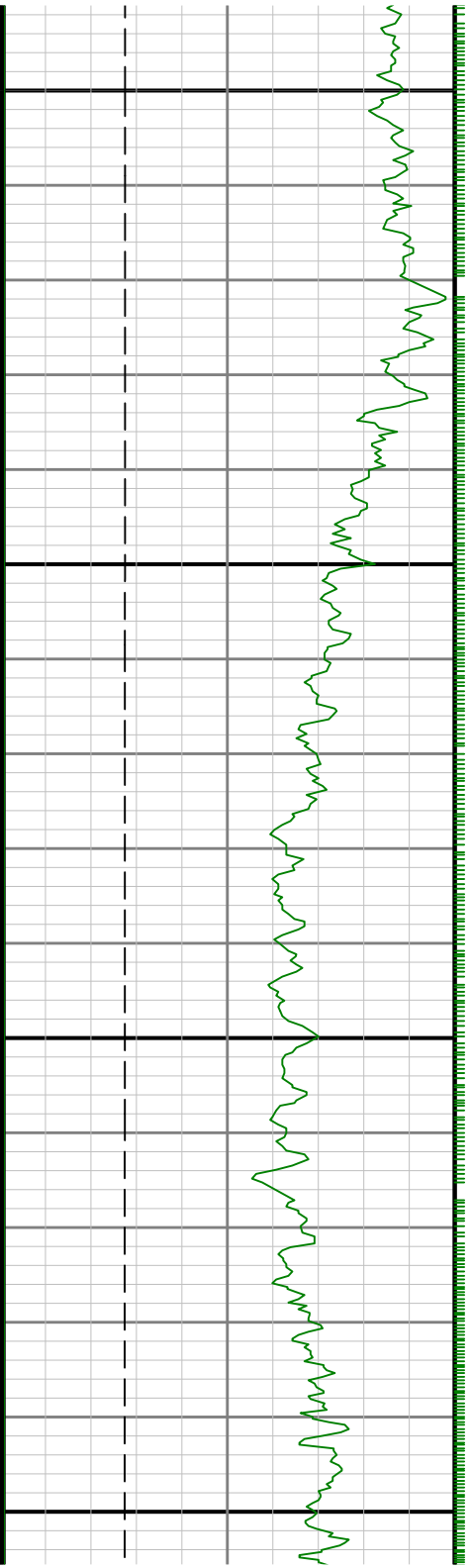




0060

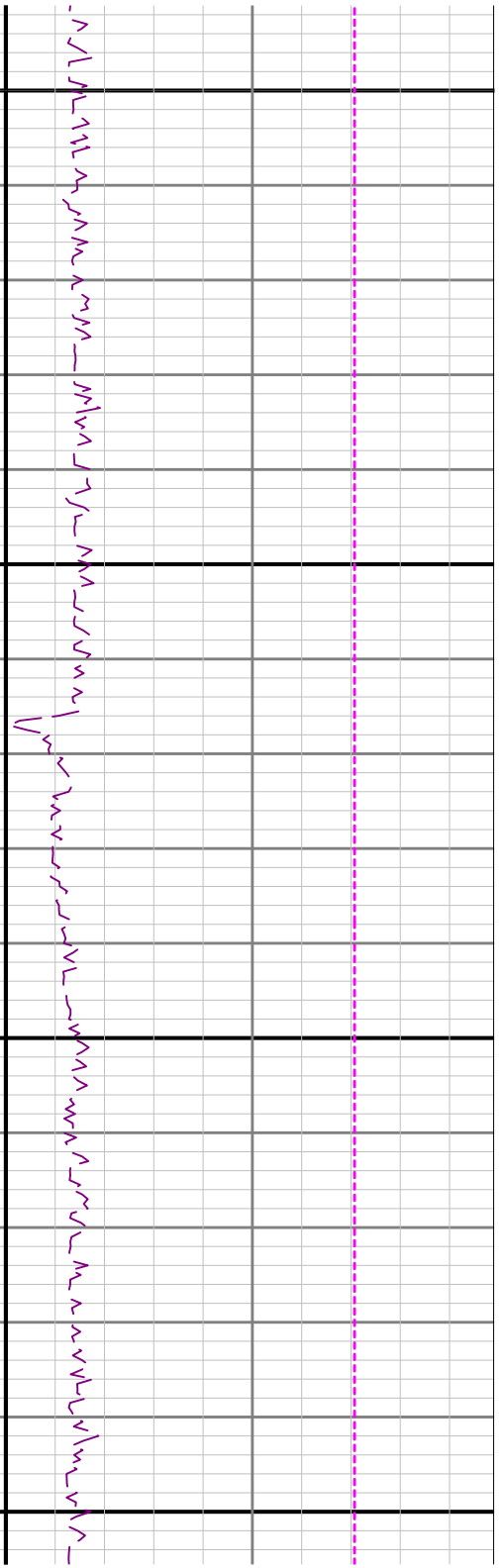
9700

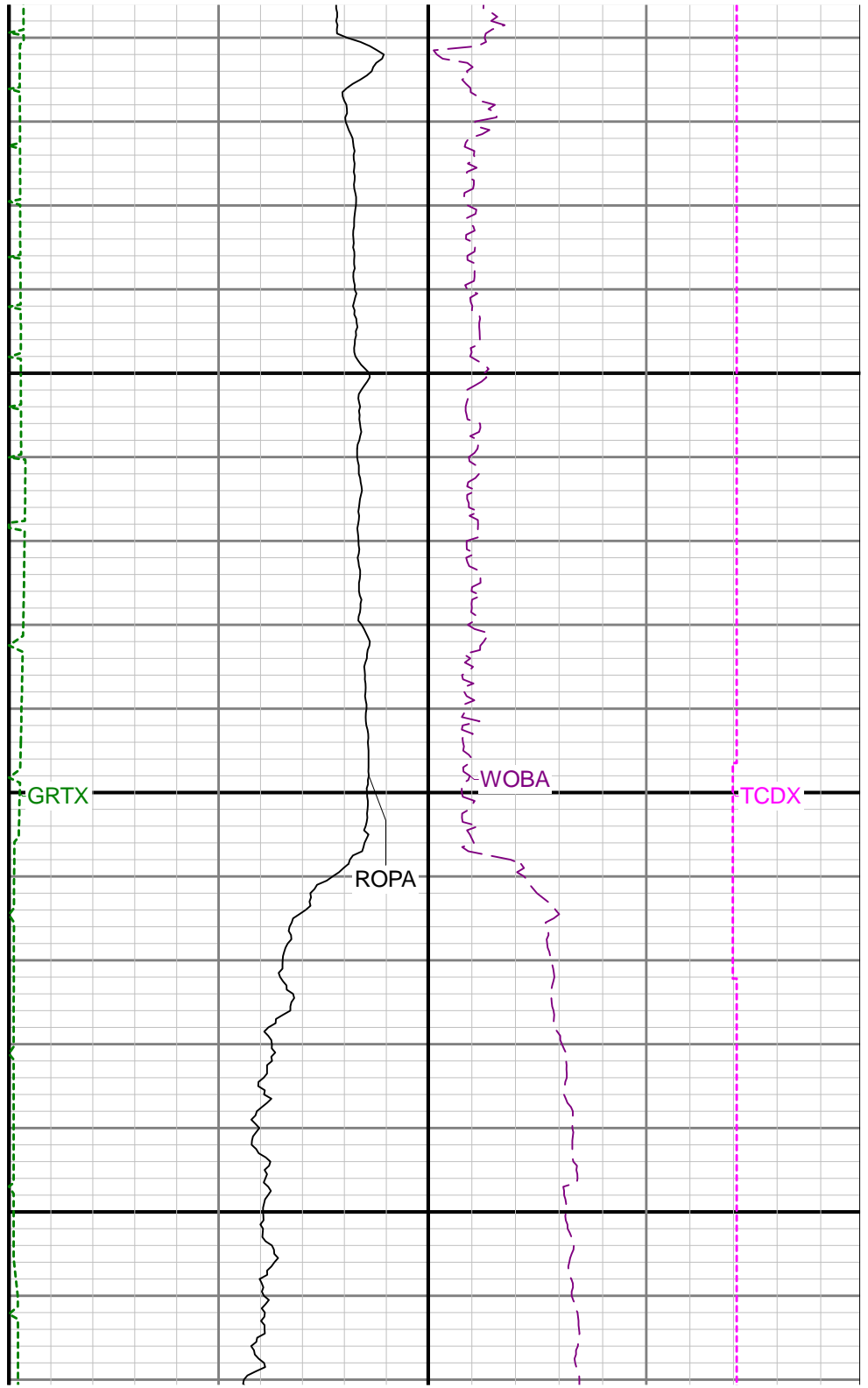
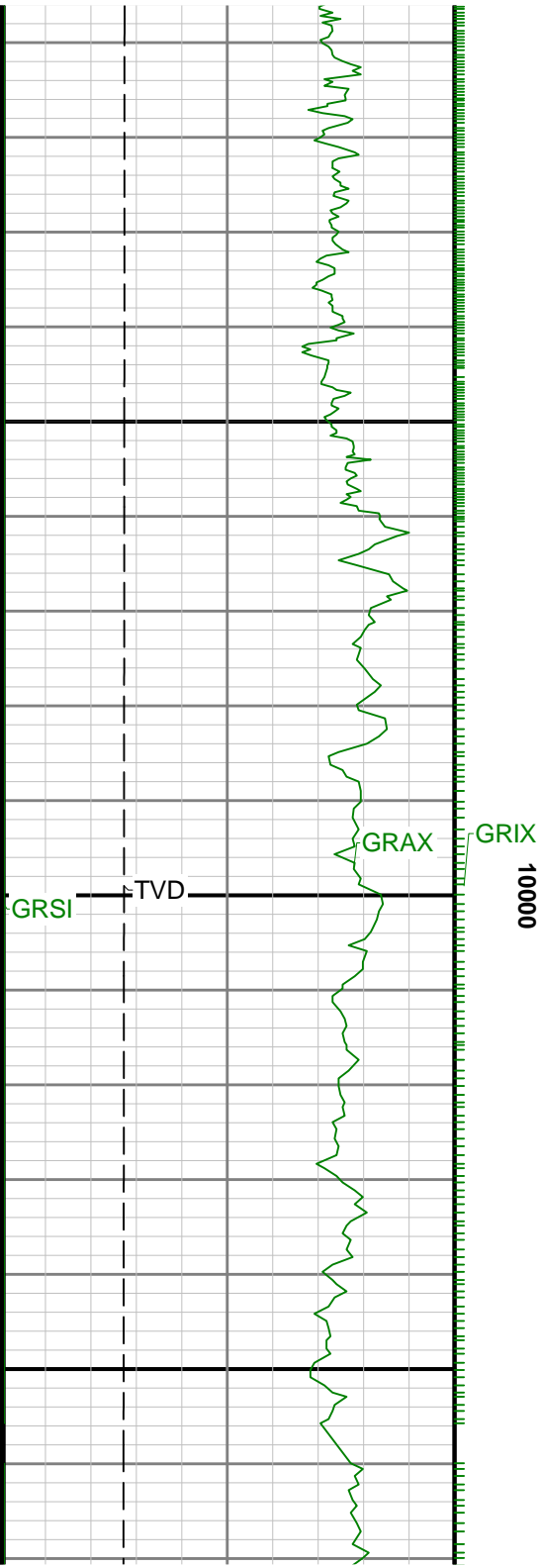




0066

0086

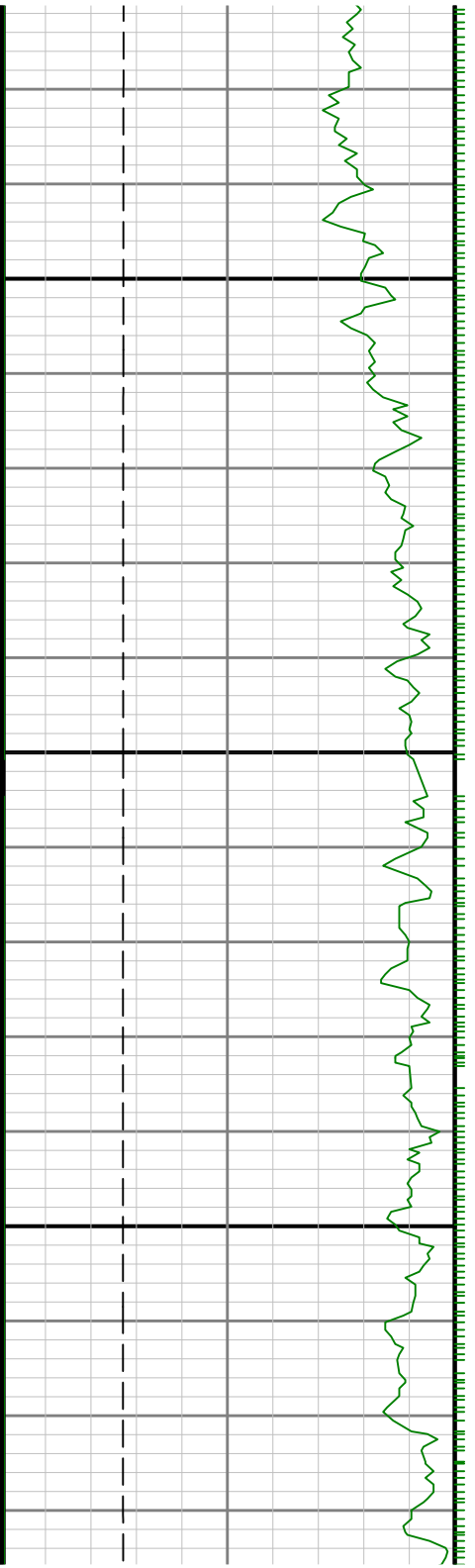






10100

10200

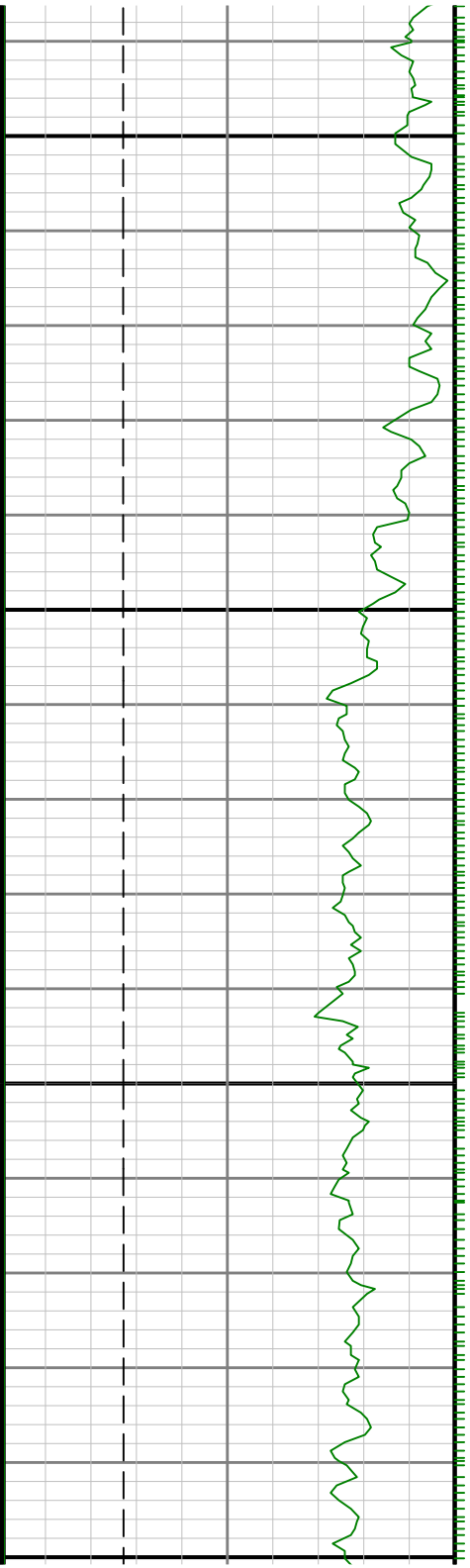


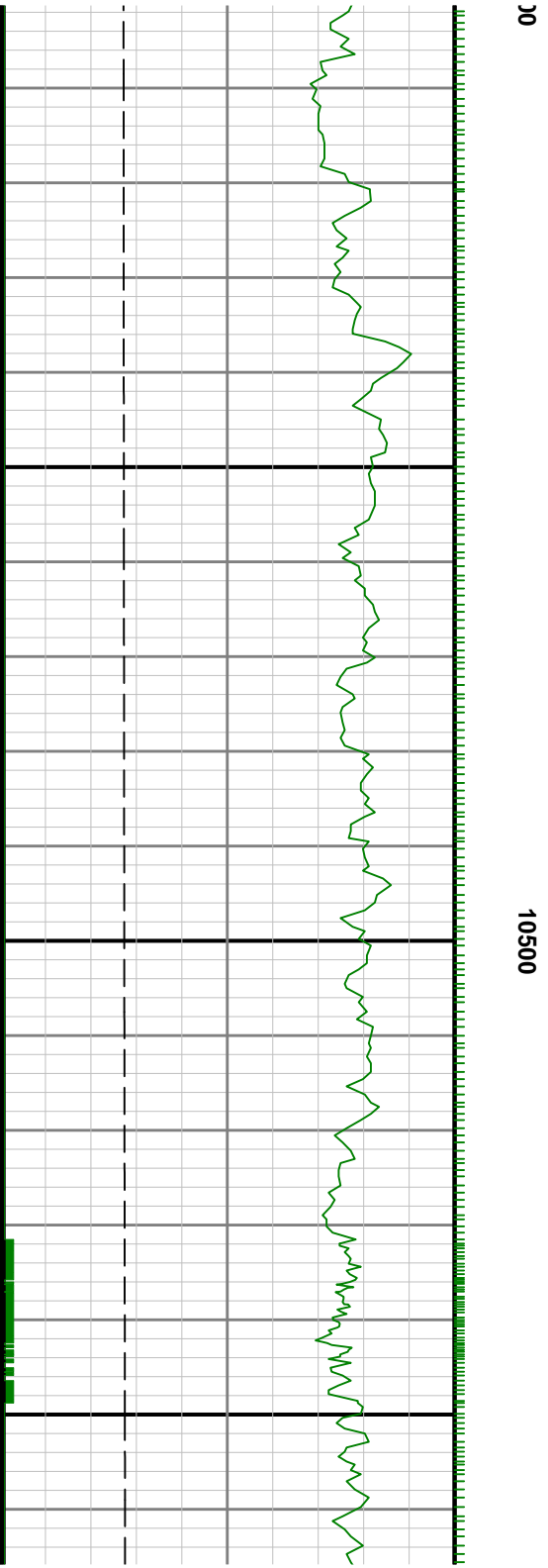
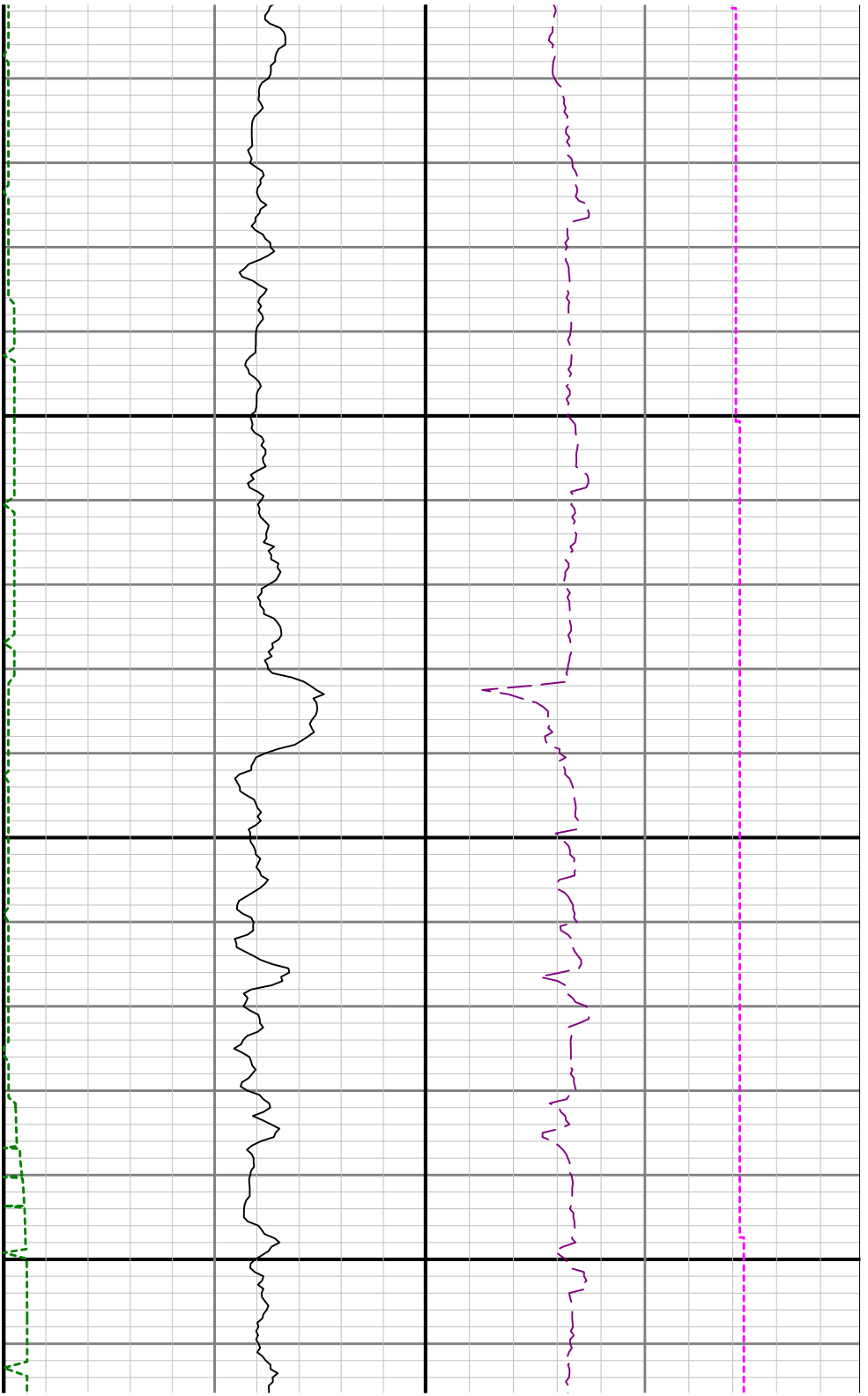


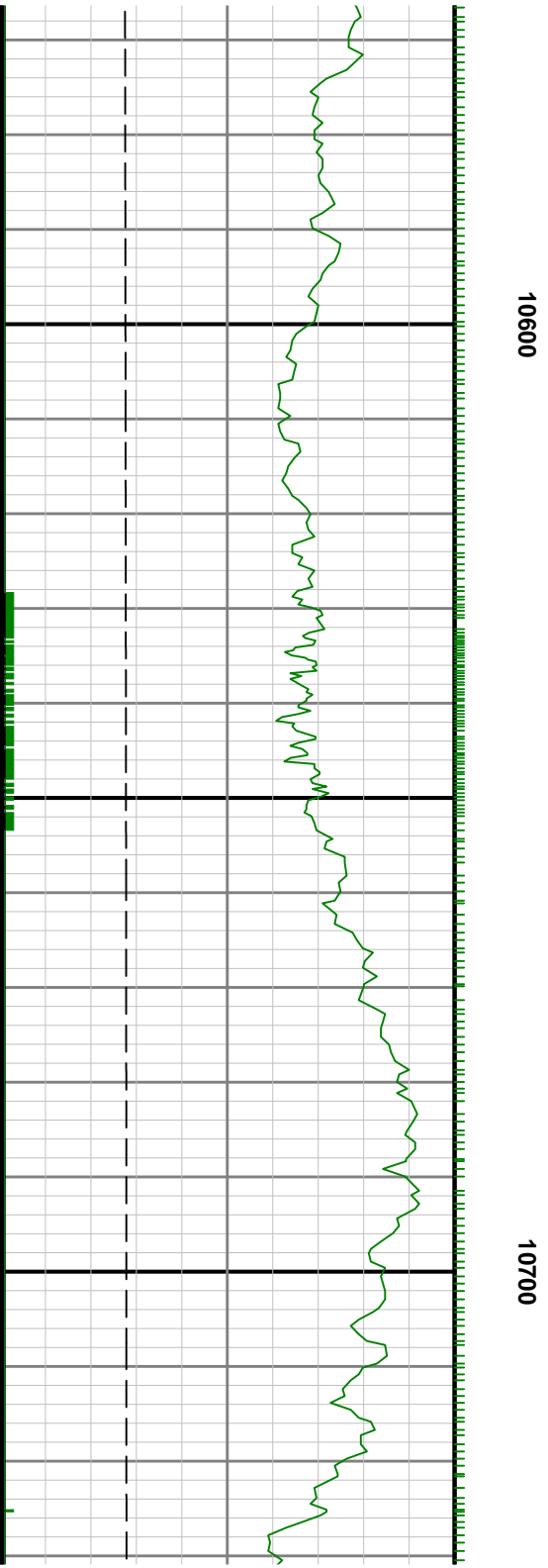
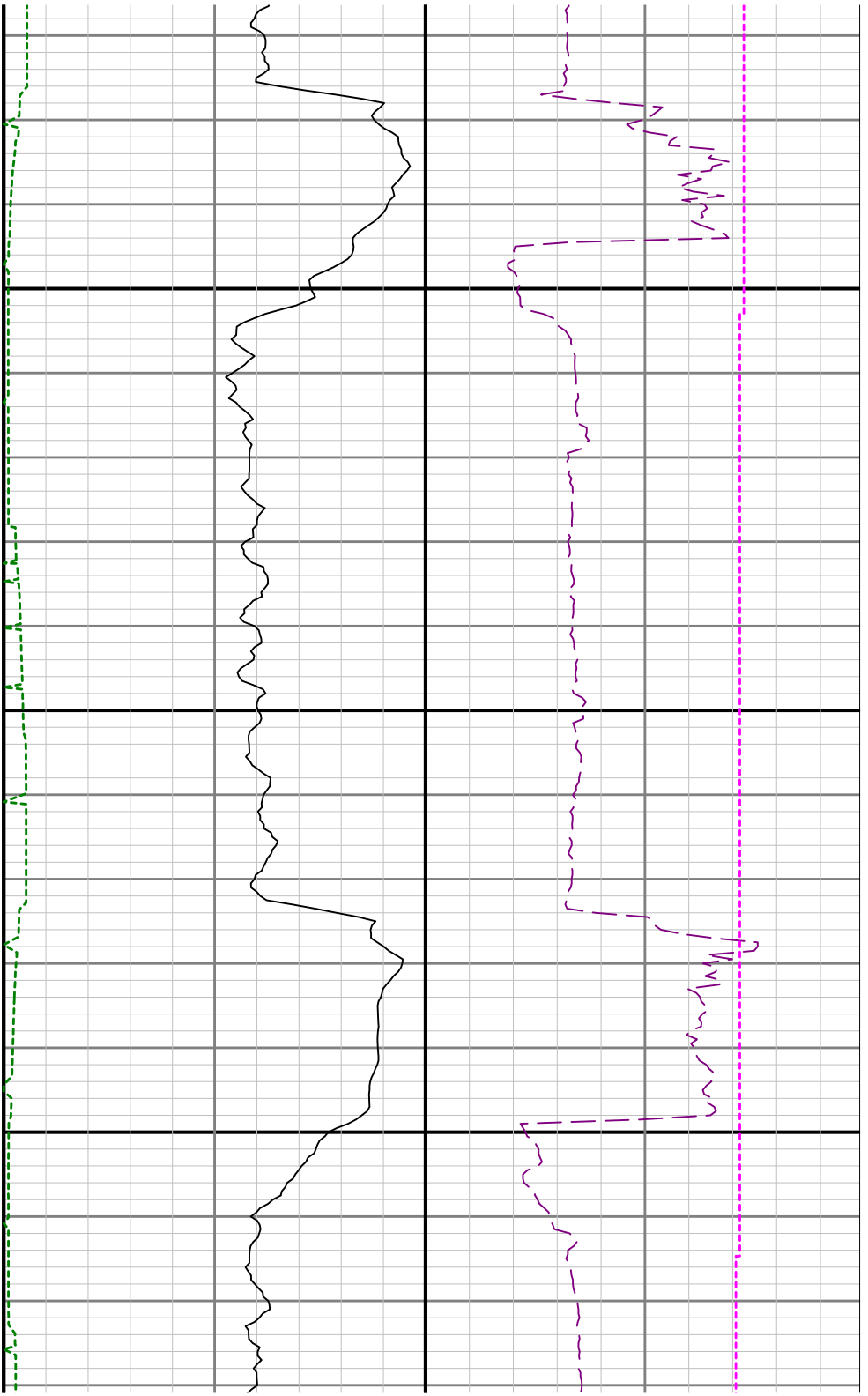


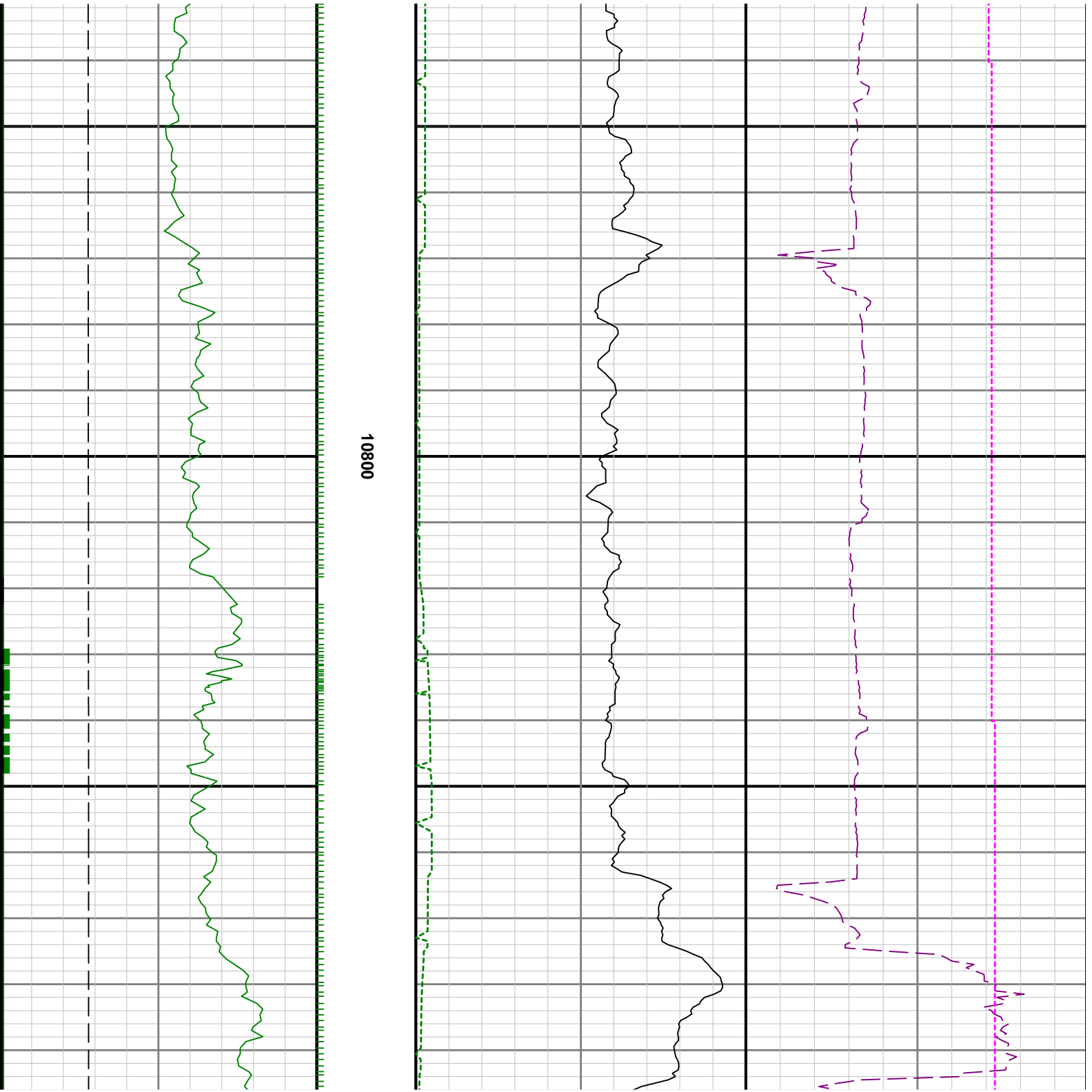
10300

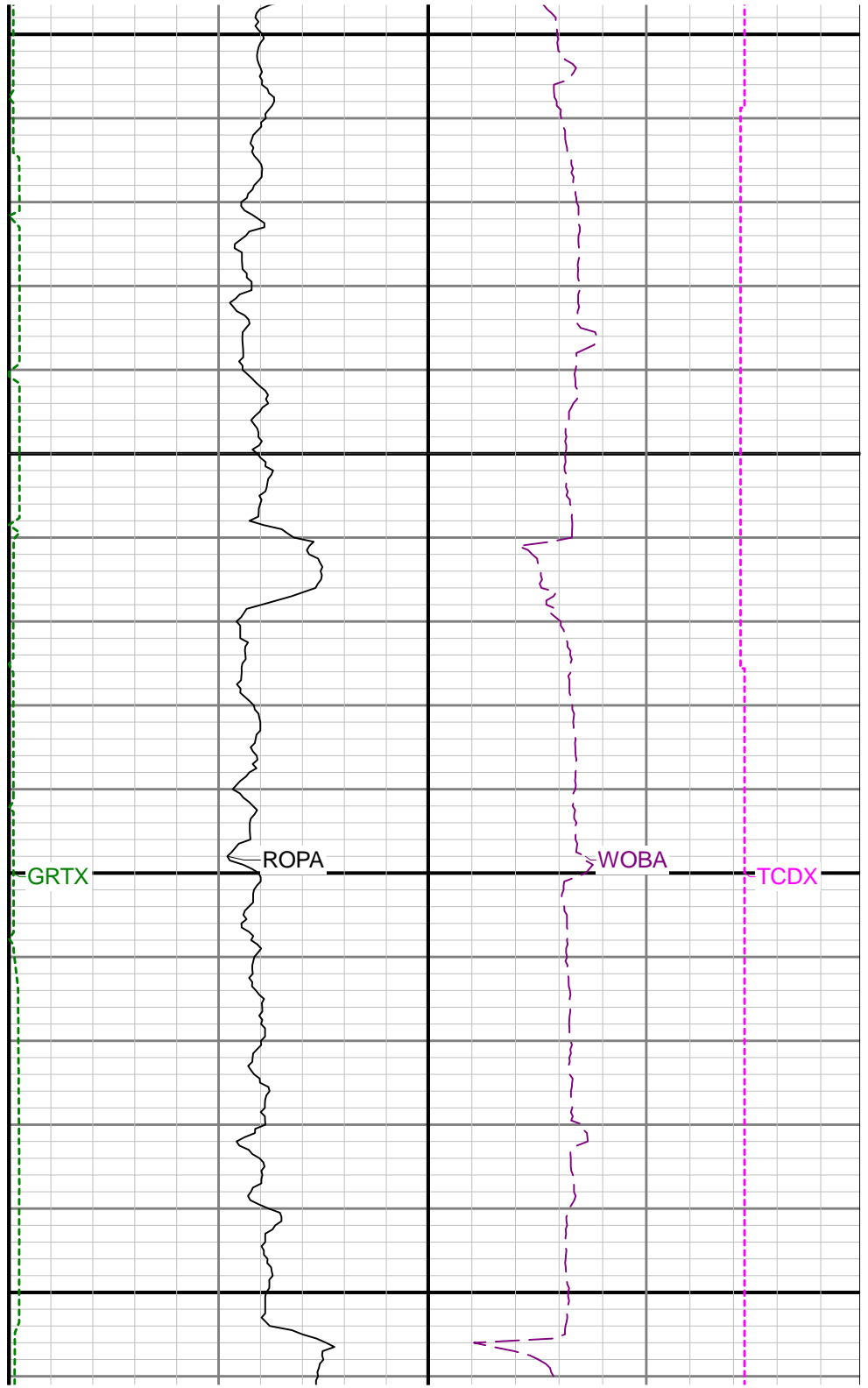
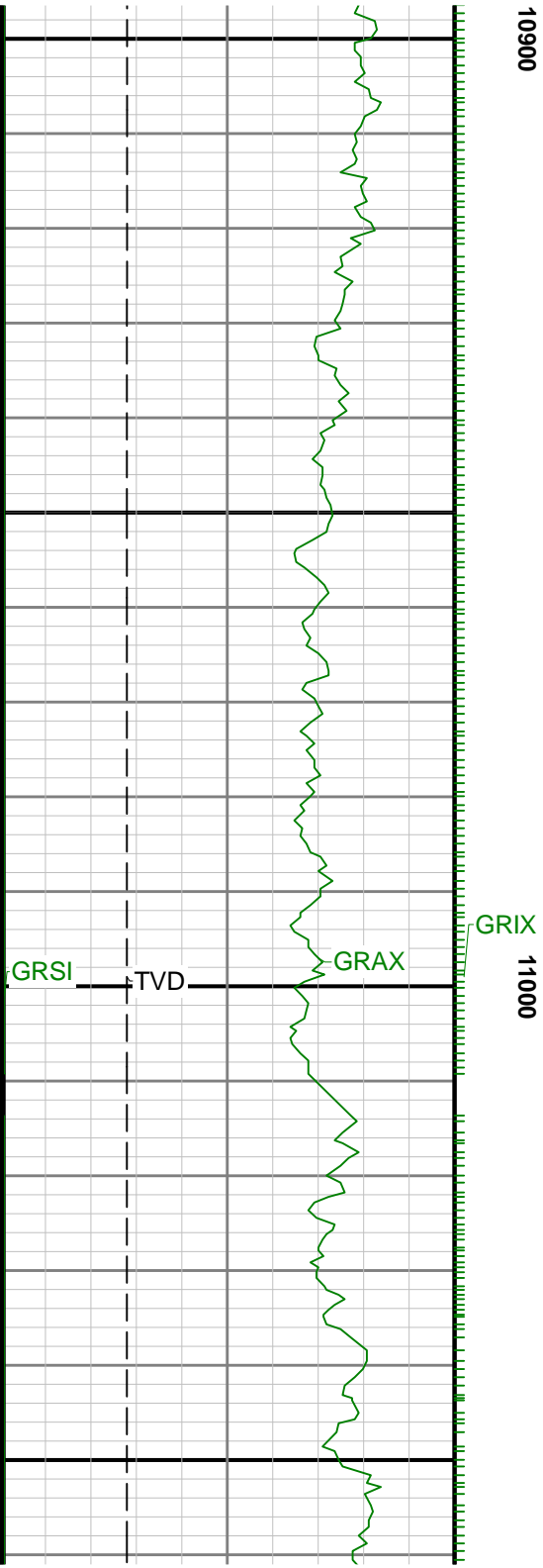
104

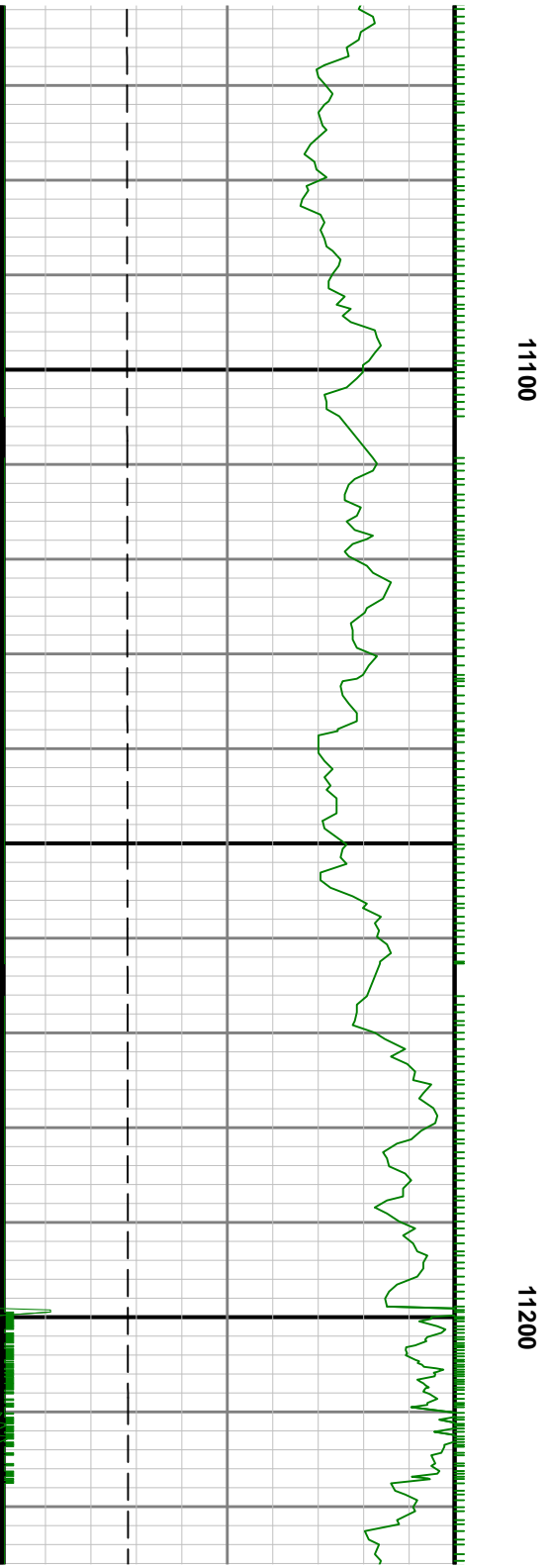
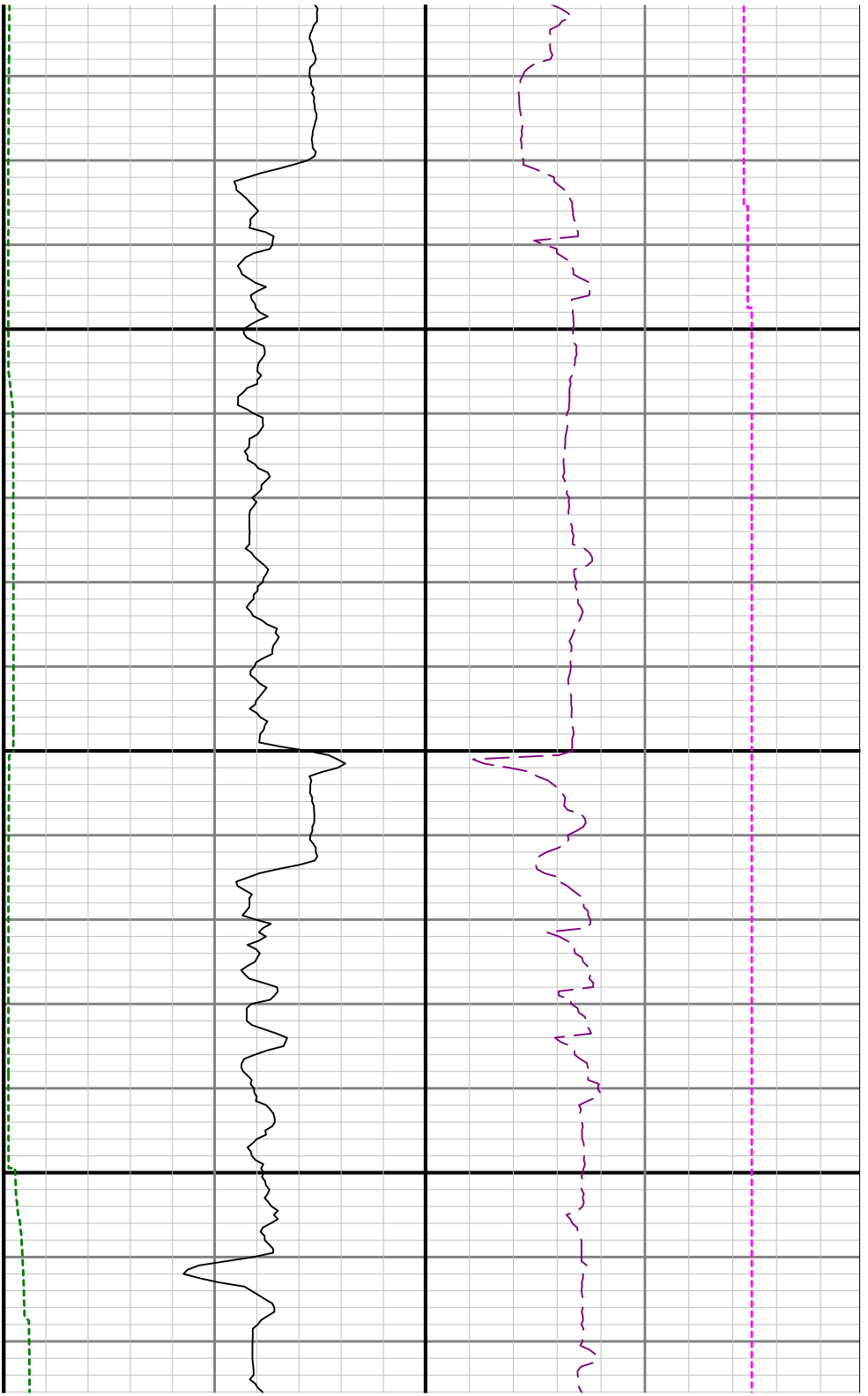


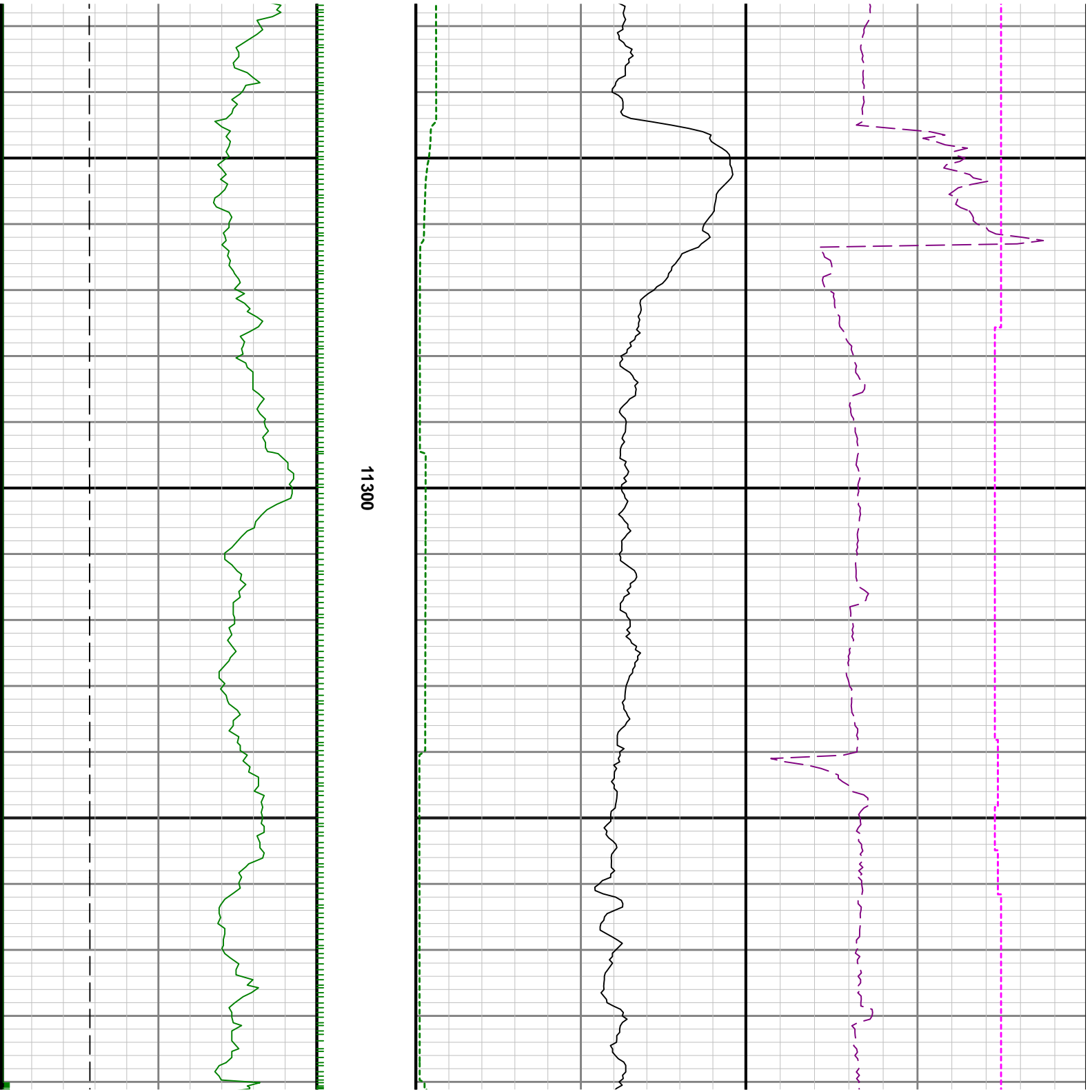


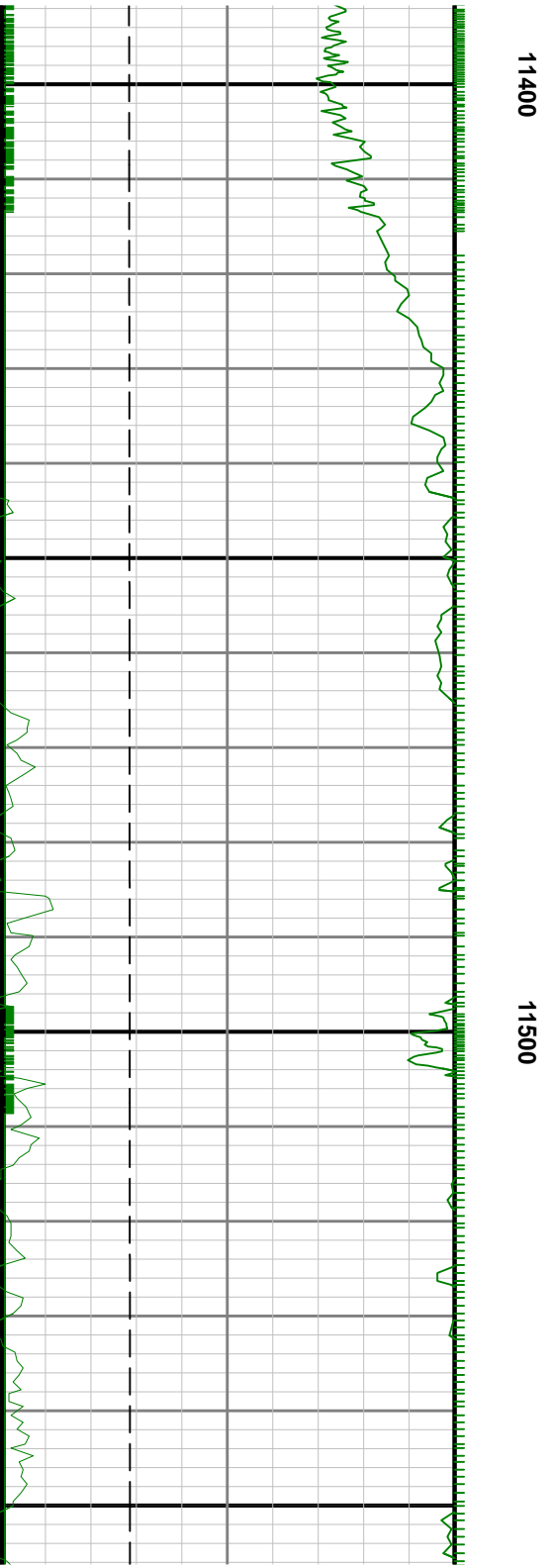
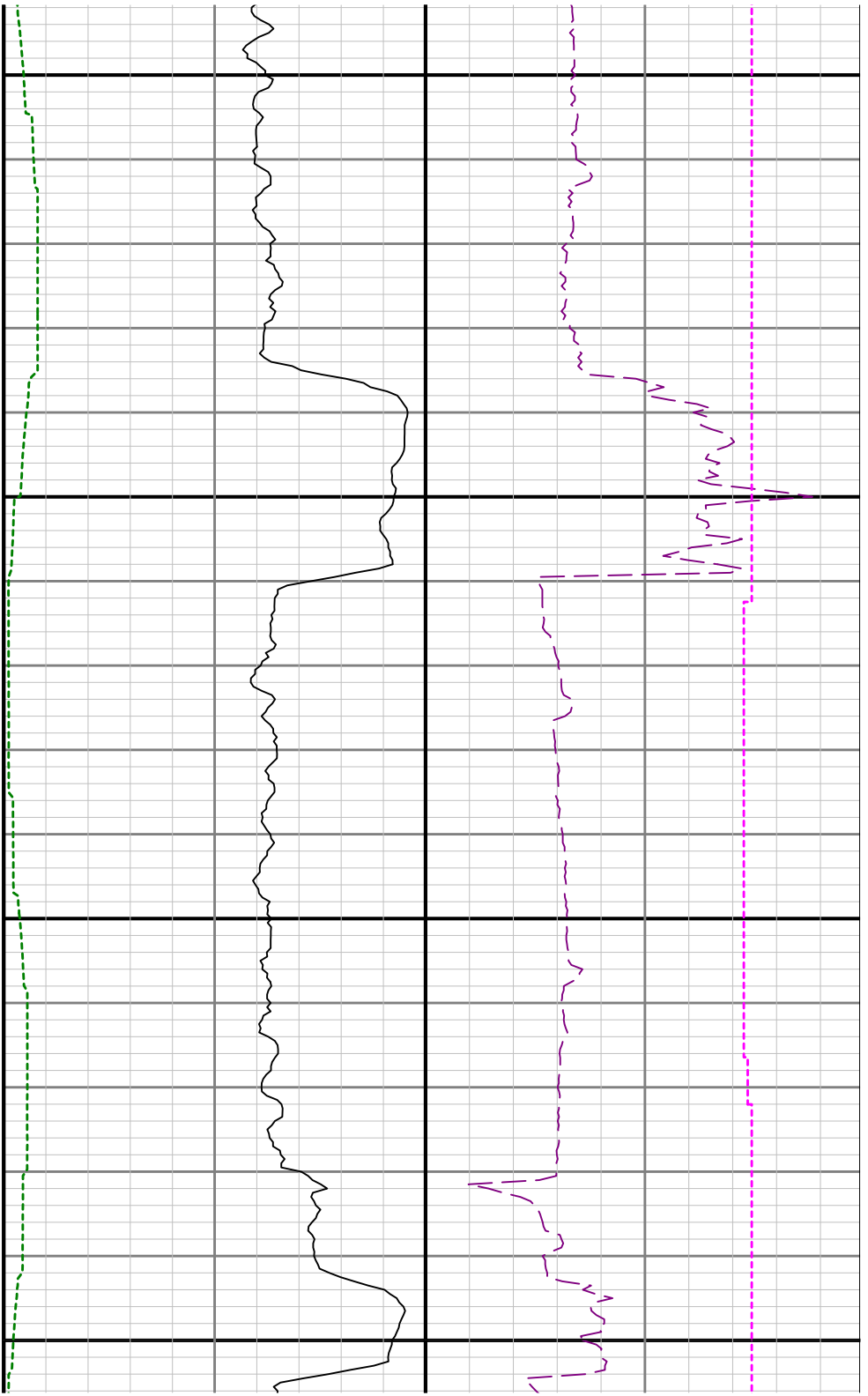




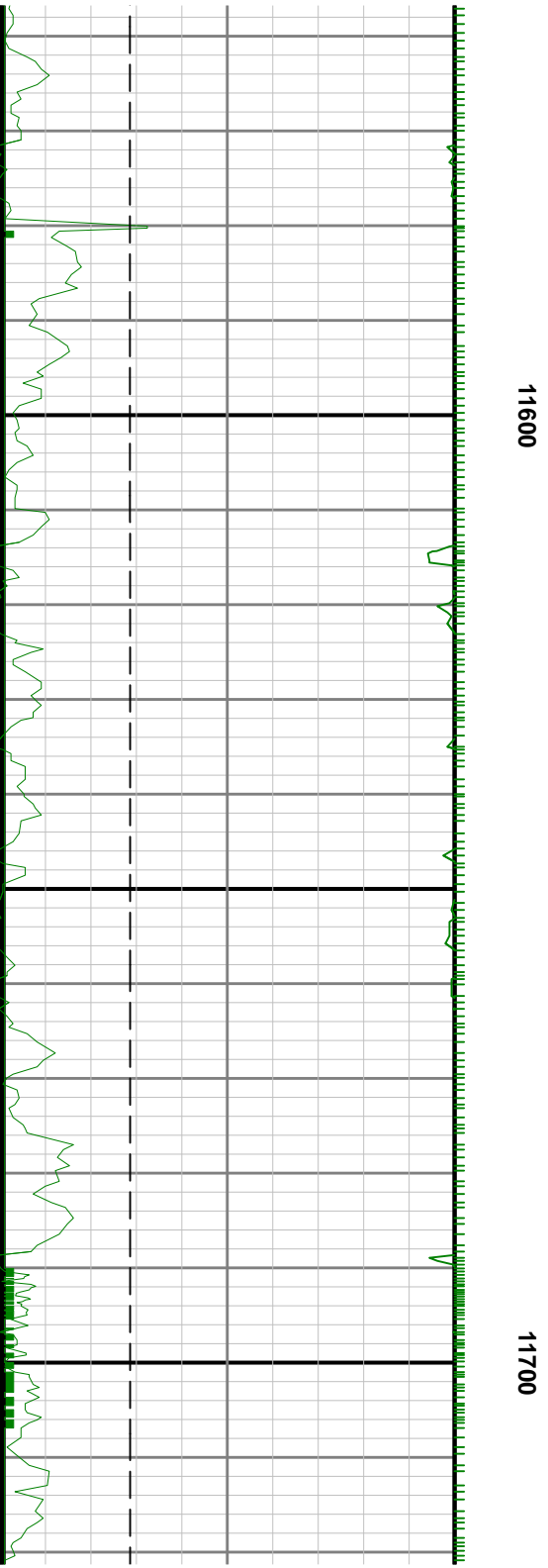
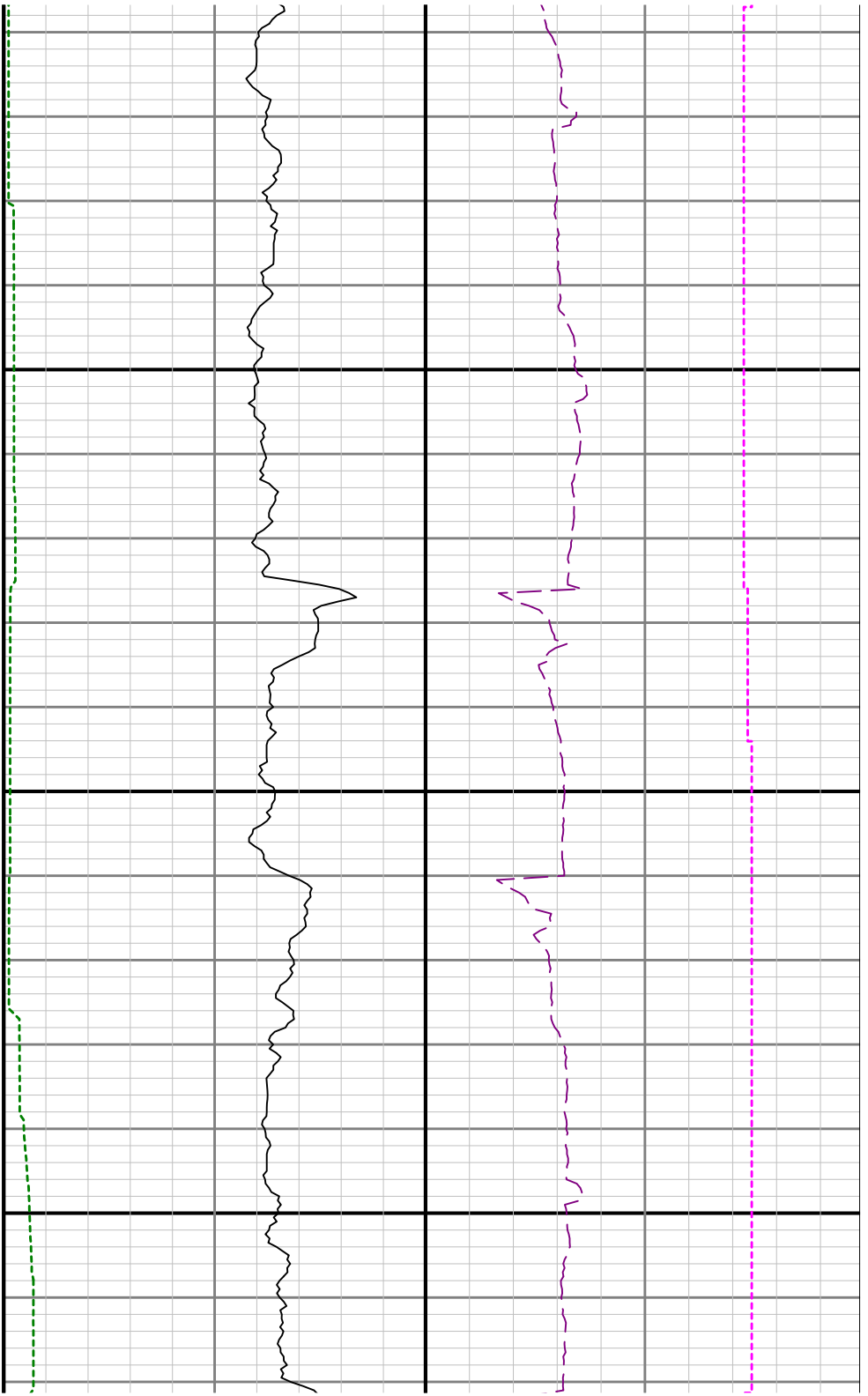


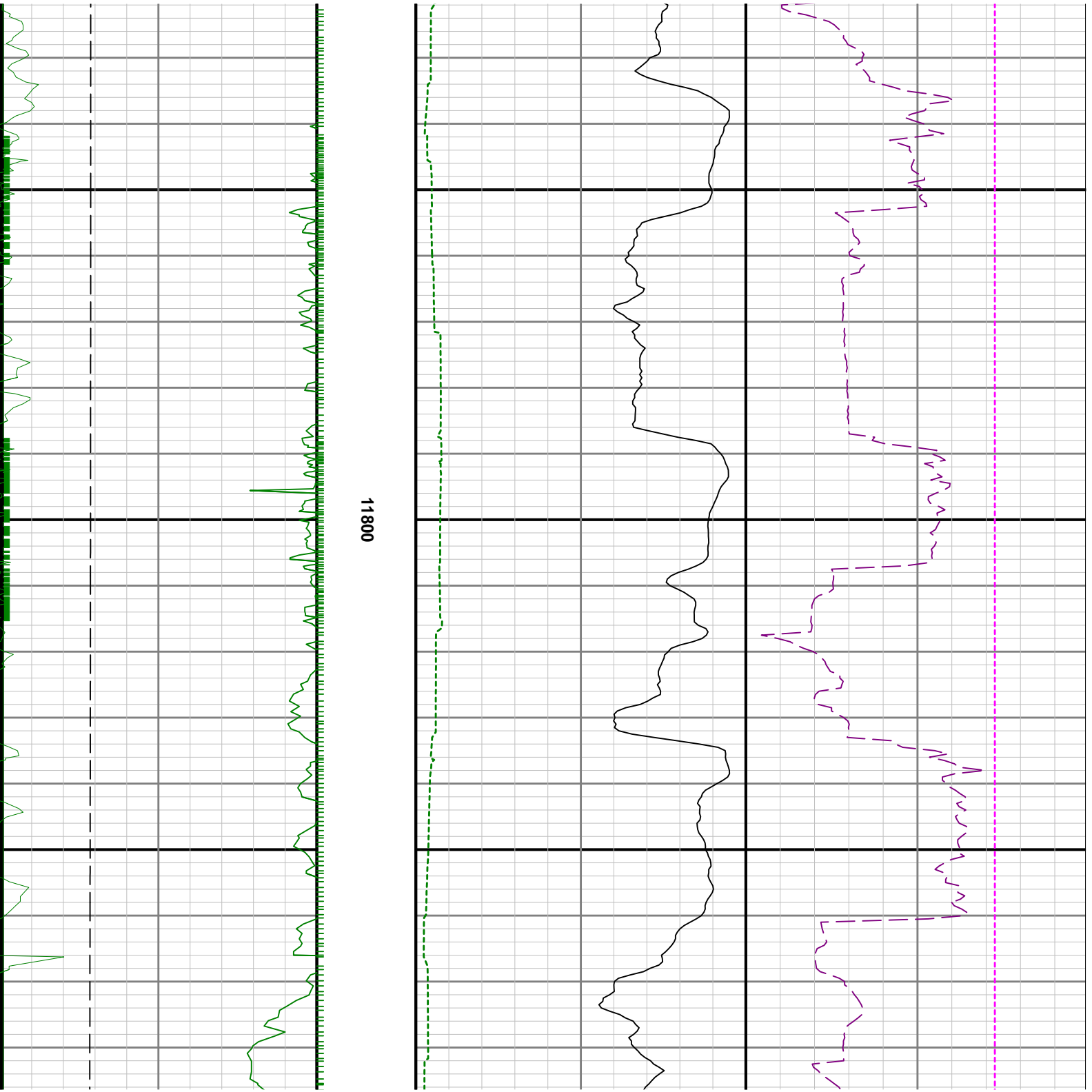


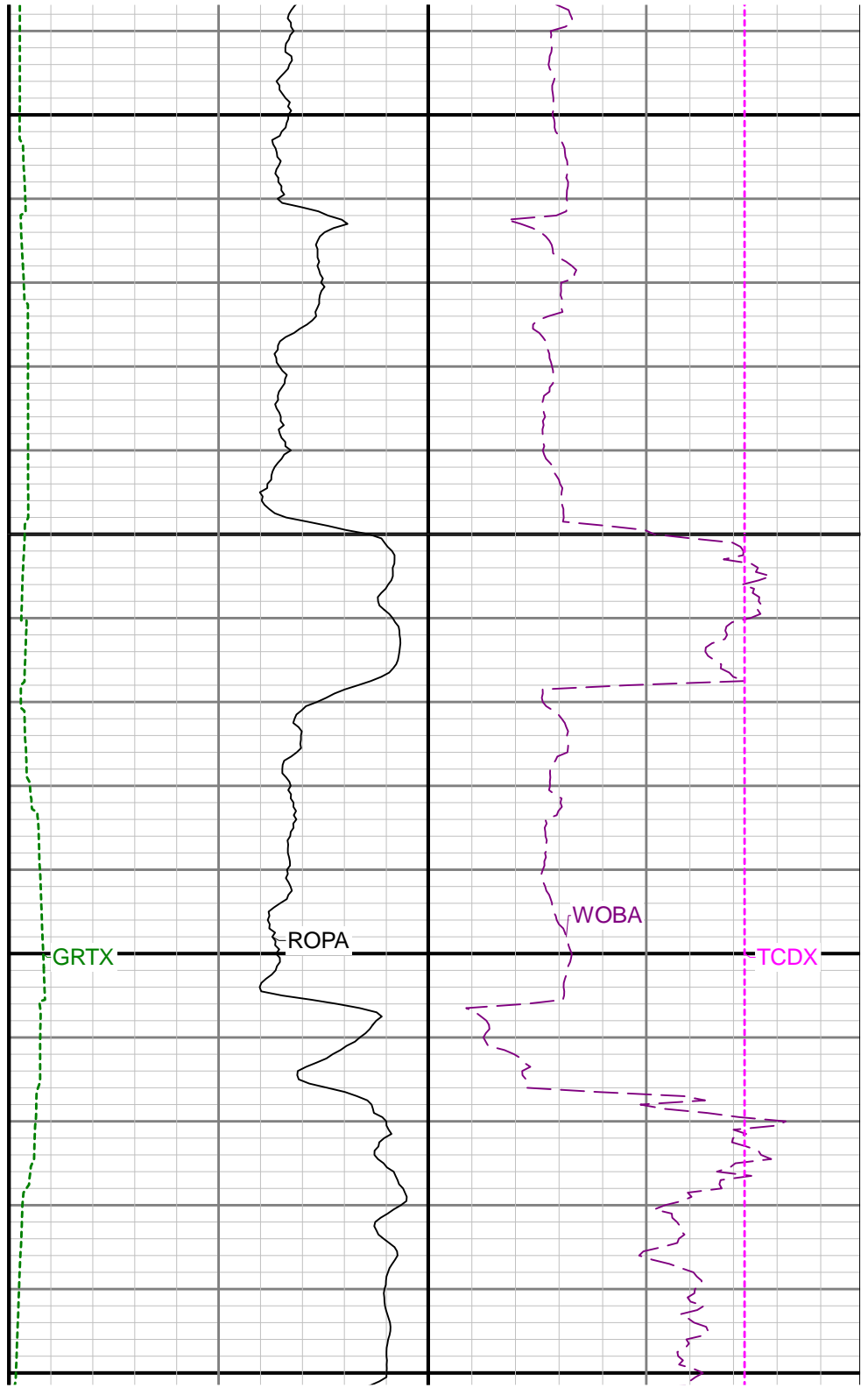
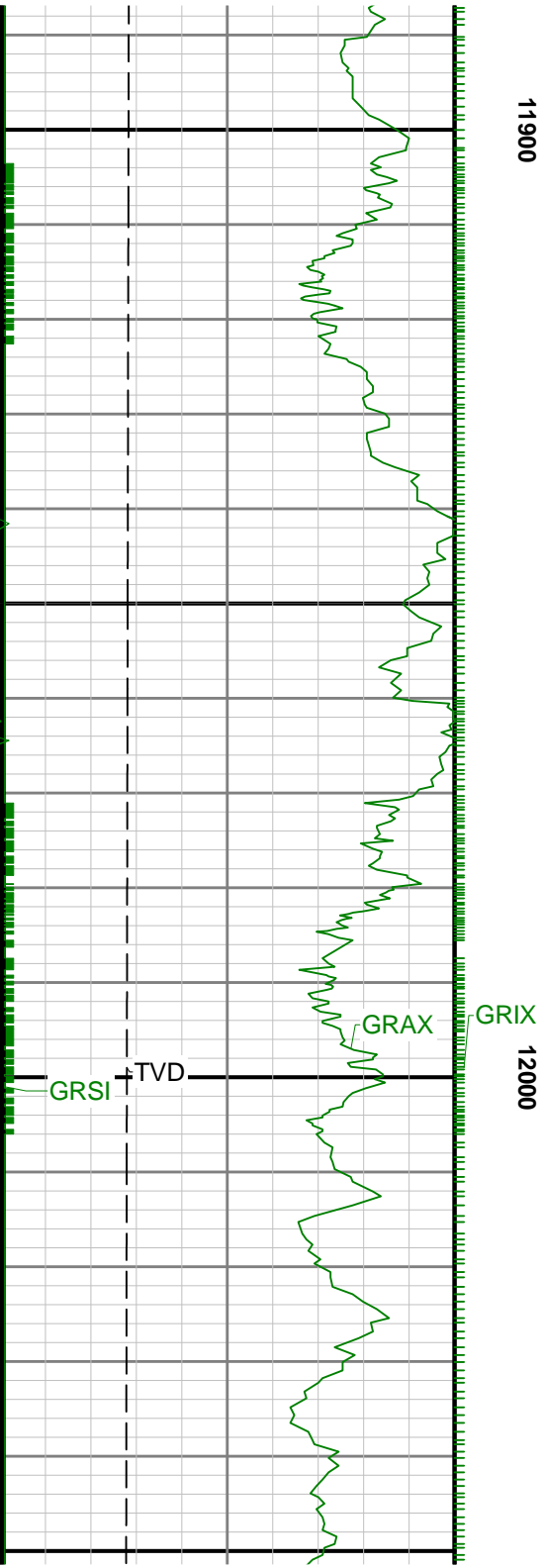


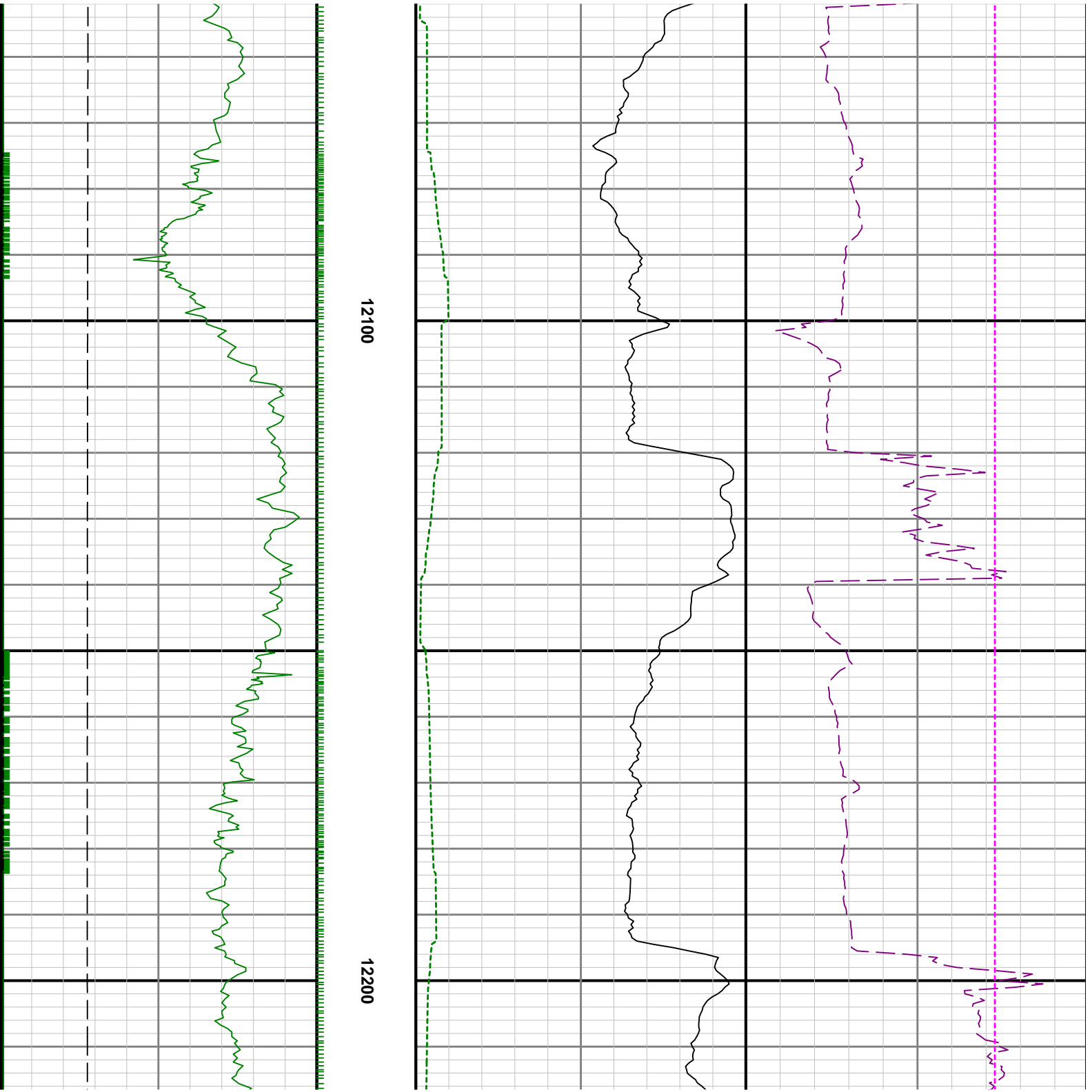


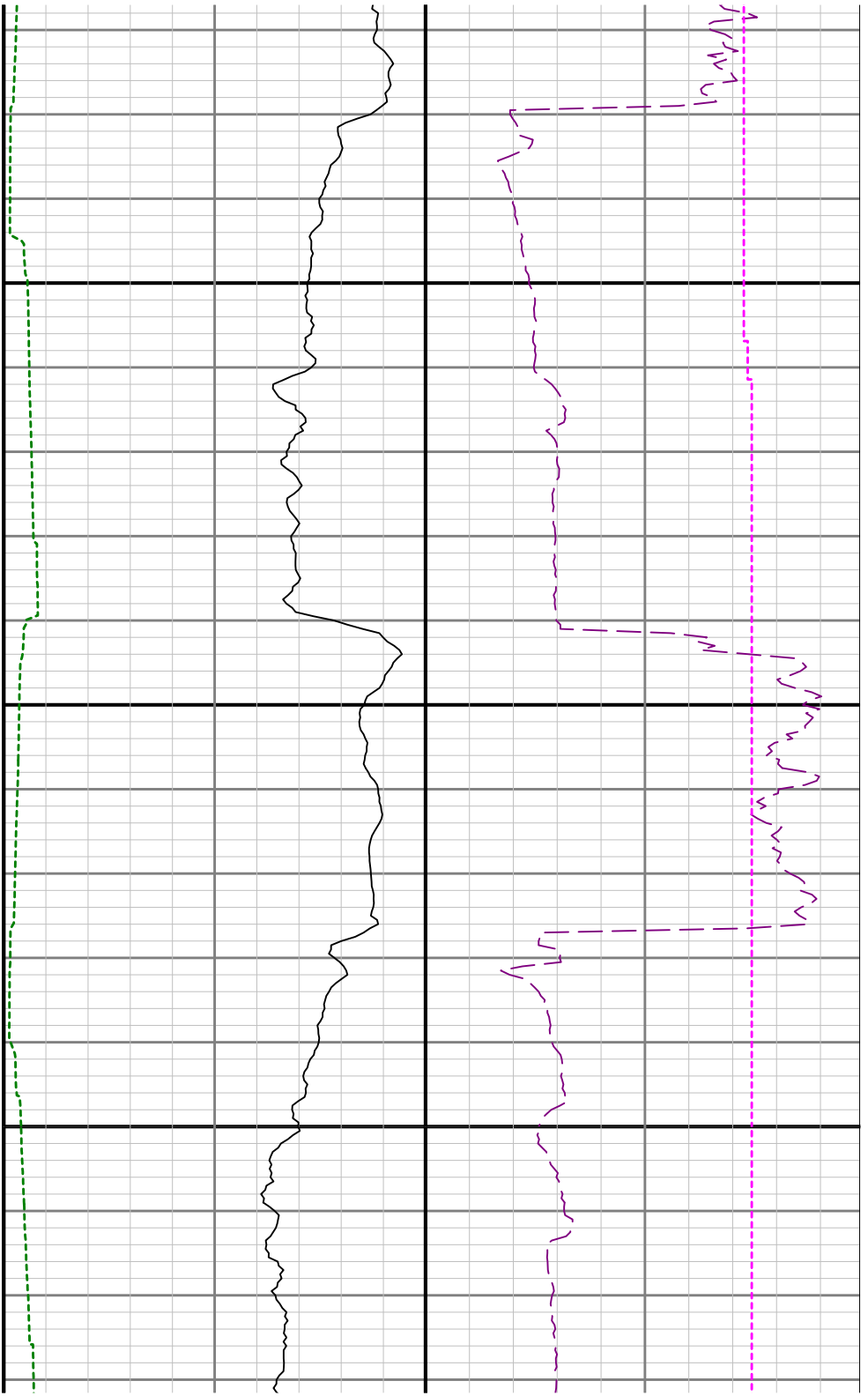




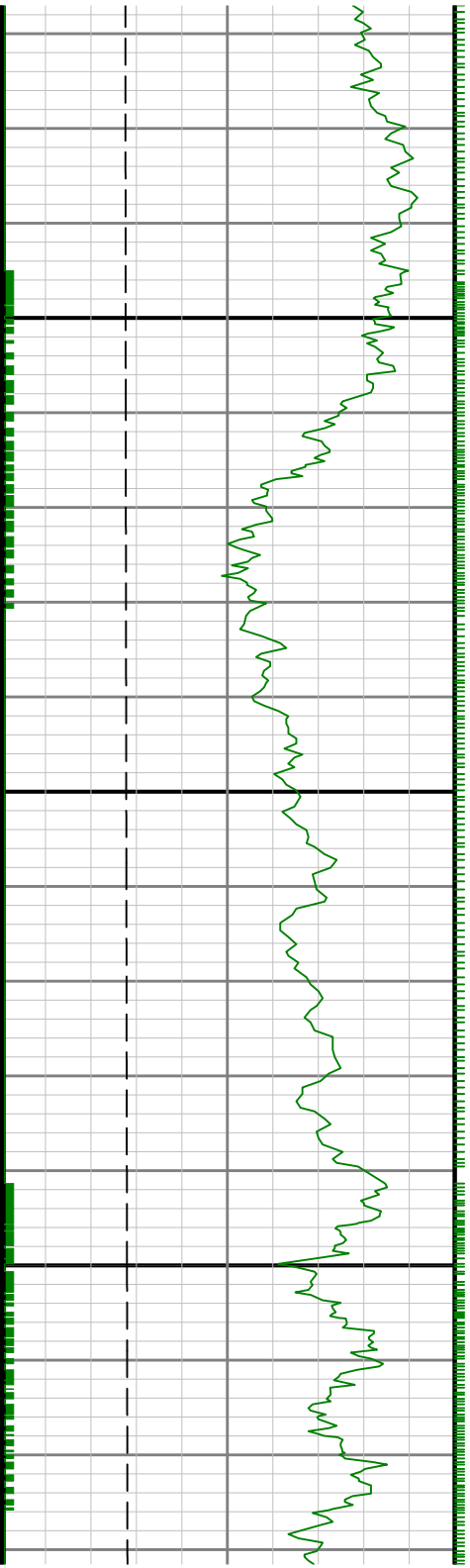


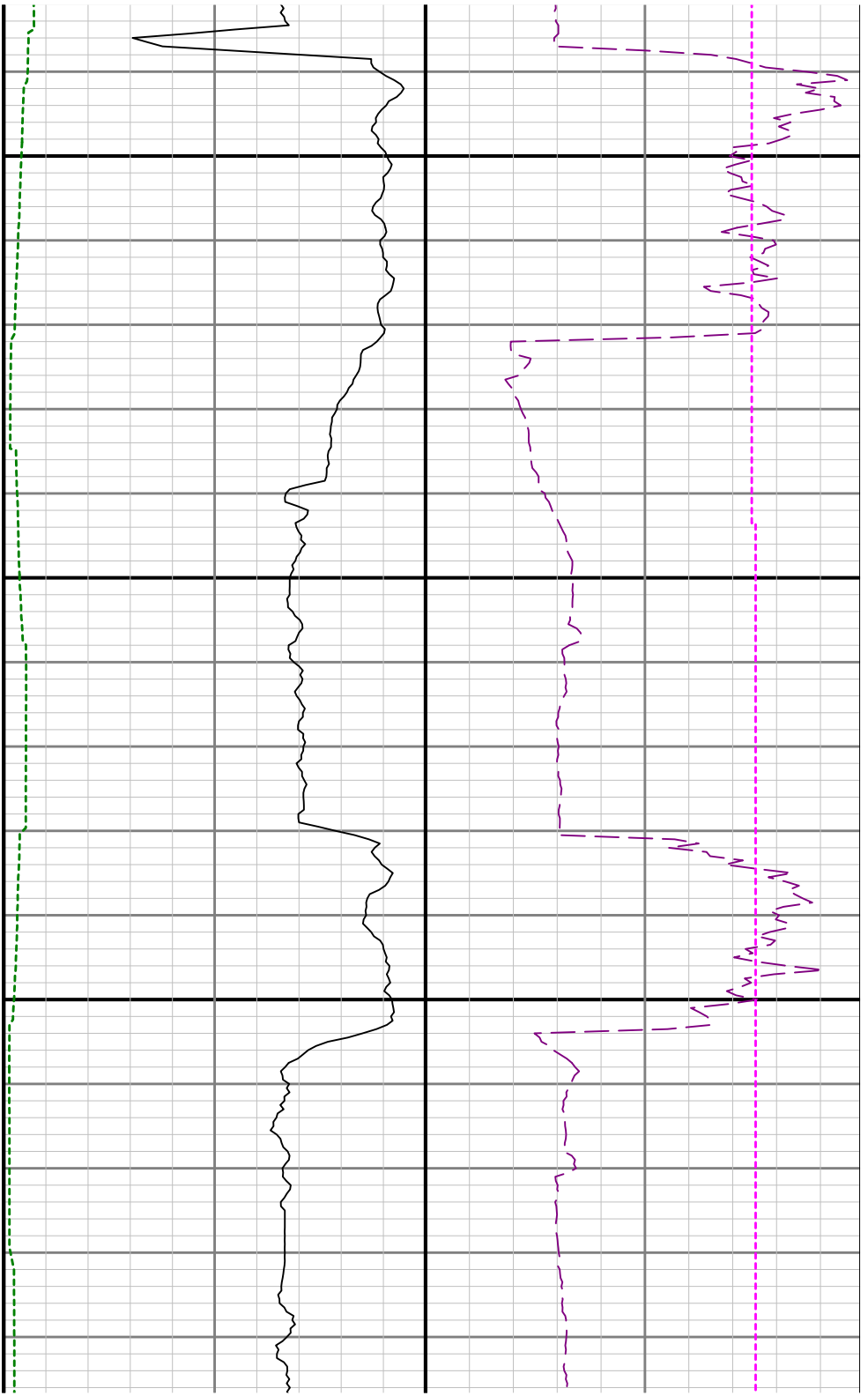






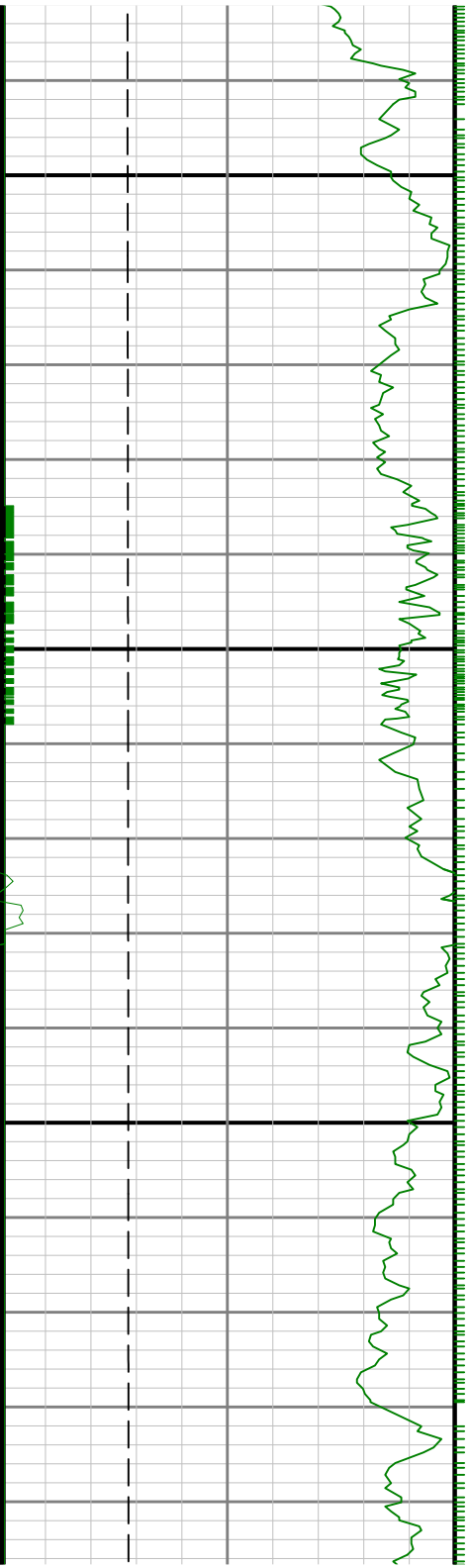
12300

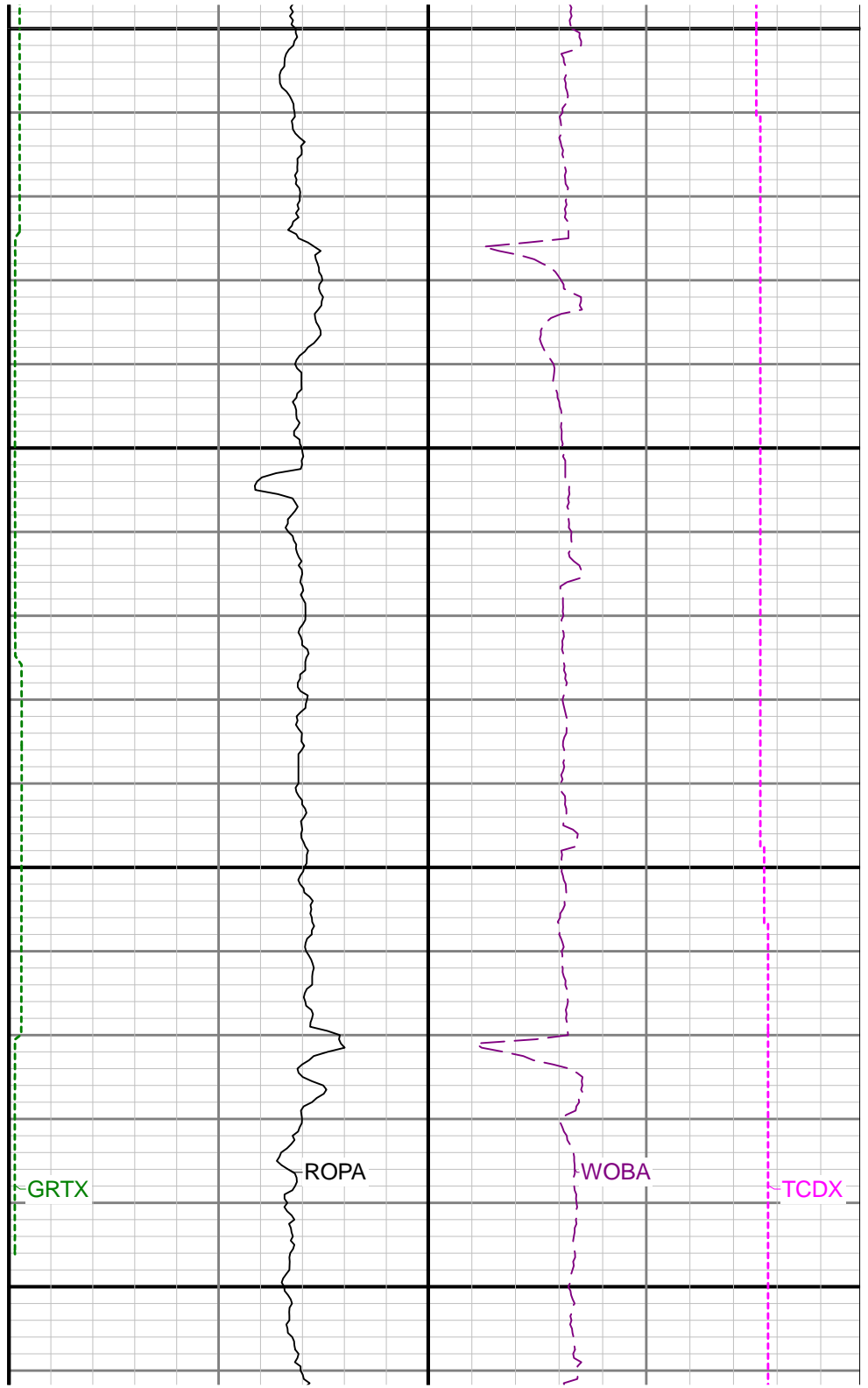
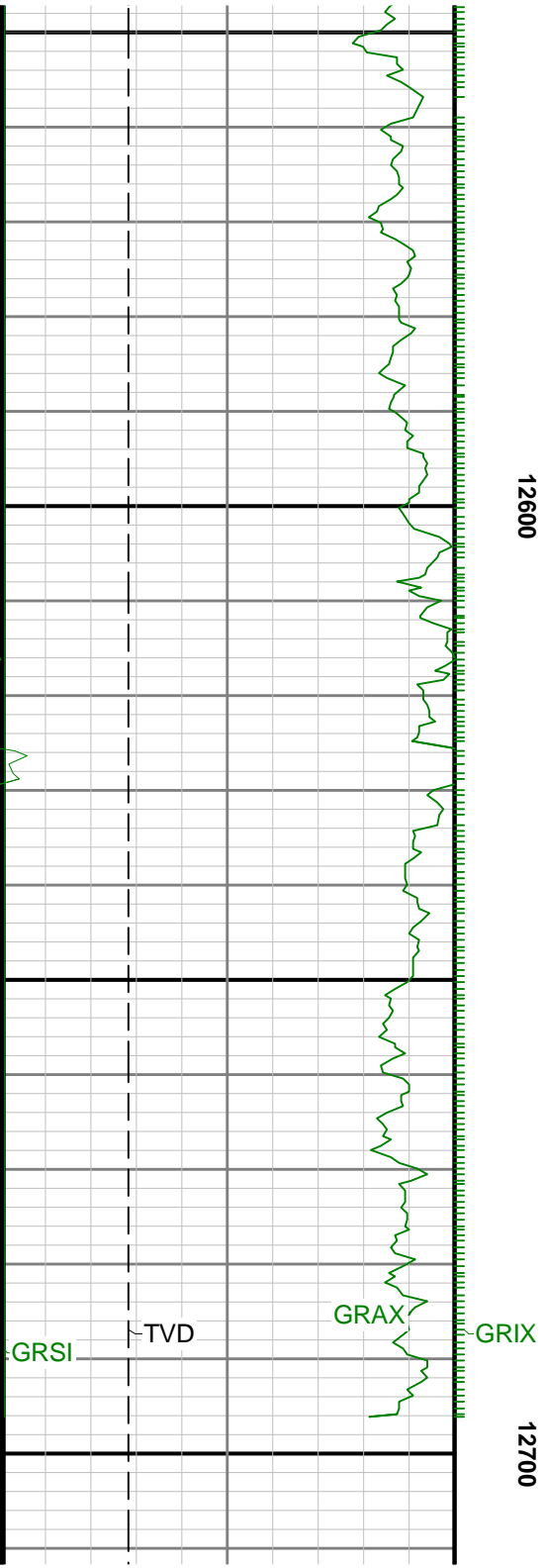


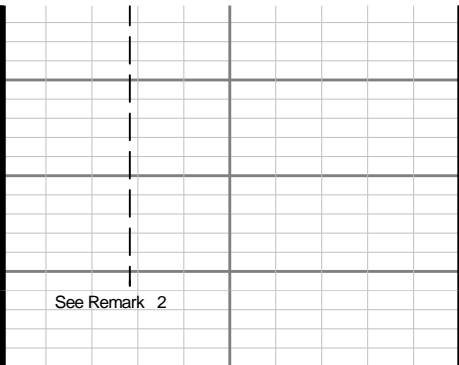
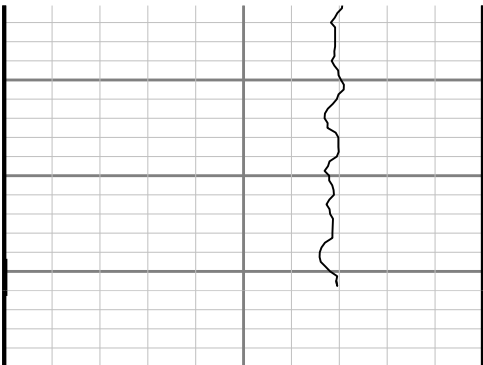
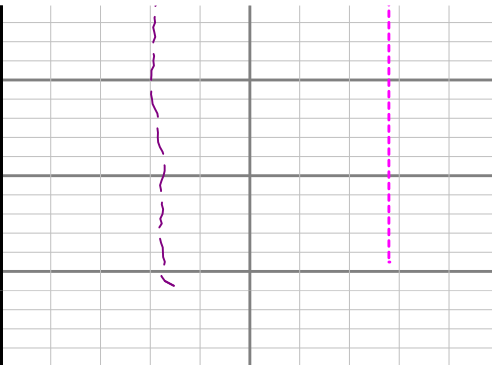


12400

12500





 <p>See Remark 2</p>	<p>TD</p>		
<p>Gamma Ray Apparent 0.5 ft Average GRAX</p> <p>0 150</p> <p>API</p> <p>True Vertical Depth TVD</p> <p>7600 6400</p> <p>ft</p>	<p>MD 1:240 feet</p>	<p>Rate of Penetration 3 ft Average ROPA</p> <p>1000 0</p> <p>ft/h</p> <p>Gamma Ray Time Since Drilled GRTX</p> <p>0 600</p> <p>min</p>	<p>Surface Weight On Bit 1 ft Average WOB</p> <p>0 100</p> <p>klb</p> <p>Downhole Temperature TCDX</p> <p>0 300</p> <p>degF</p>