



Natural Formation Evaluation Gamma Ray

LWD REALTIME LOG COMPOSITE

Scale:	Company: Anadarko		
1:240 MD	Well:	GOOSE 9N-A8HZ	
Depth Reference:	Field:	Weld County (UTM/True North)	
Driller's Depth	Country:	Weld	State: United States
Status:	Surface Location:	Other Services:	
Final Print	Latitude:	ᠡᠭᠡᠢᠨᠠᠳᠠᠷᠠᠭ᠎ᠠ ᠤᠯᠤᠰᠤ	
API No:	051234135500	Longitude:	Fᠡᠭᠡᠢᠨᠠᠳᠠᠷᠠᠭ᠎ᠠ ᠤᠯᠤᠰᠤ
Job ID:	7290528	SEC: 15	TMN: 3N RGE: 67W
Permanent Datum (P.D.):	Mean Sea Level	Elevation:	4808.00 ft
Log Measured From:	Rig Floor	Above P.D.	4824.00 ft
Dates	Interval Logged	Magnetic Field Reference	
Date From:	2015-07-02	Top: (ft)	6580.00
Date To:	2015-07-04	Bottom: (ft)	13310.00
Spud Date:	2015-05-31	Total Magnetic Field Strength: (nT)	52466
		Mag to Reference North Correction: (deg)	8.45 E
Borehole Record			
Hole Size (in)	From (ft)	To (ft)	Size (in)
13.500	16.00	1899.00	9.625
7.875	1899.00	13310.05	
Casing Record			
Mud Record			
Type	From (ft)	To (ft)	Hole Size (in)
Water Based Mud	16.00	1899.00	13.500
Diesel-Oil Based Mud	6580.00	13310.05	7.875
Deviation Record			
</			

"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"ewuvqogtø"cpflqt"cp{"vjktf"rctv{øu"tgnkcepg"qp"uwej"Kpvgtrtgvcvkqpu"yknn"ceeQornkuj"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

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 (ft)	Bottom (ft)	From (ft)	To (ft)	Start Logging	End Logging	
1	1	4.000	PDC	3.00	Motor	0.00	0.00	16.00	1899.00	2015-06-03 07:30	2015-06-04 01:00	10.82
2	2	3.000	PDC	3.00	Motor	6580.00	13248.04	6580.11	13310.05	2015-07-02 03:20	2015-07-04 03:11	59.55

Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Andrew Clancy	2015-06-04	2015-07-05	Sumanth Belawadi	2015-06-02	2015-07-05	Enyonam Anyigba	2015-06-02	2015-06-04

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+ (%)
2015-06-04 14:28	1	1899.00	Water Based Mud	8.5	26	8.9	0.0	0.0/98.5	Active Pits	450	0.00
2015-07-02 06:27	2	6880.00	Diesel-Oil Based Mud	93.5	53	N/A	0.0	65.2/34.8	Active Pits	58000	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	12662919	Gamma (single)	11.90	50.36	6.750	3.250
1	NaviGamma	12662919	Directional (mag)	15.27	53.73	6.750	3.250
1	NaviGamma	12662919	VSS	15.27	53.73	6.750	3.250
2	NaviGamma	12366182	Gamma (single)	10.87	62.01	6.520	3.250
2	NaviGamma	12366182	VSS	14.21	65.35	6.520	3.250
2	NaviGamma	12366182	Directional (mag)	14.21	65.35	6.520	3.250

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 3/4 inch Navigamma (Directional and Gamma Ray) tool behind an 13 1/2 inch bit and steerable assembly from surface to 1899 feet MD (16 to 1837.10 feet TVD).
- 3 Baker Hughes Run 2 utilized a 6 1/2 inch Navigamma (Directional and Gamma Ray) tool behind an 7 7/8 inch bit and steerable assembly from 1899 to 13310 feet MD (1837.10 to 7022.40 feet TVD).


4 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	6580.00	7.875	2	Logging services began at 6580 feet MD (6311 feet TVD). No logging data prior to 6580 feet as per client request.
2	13310.00	7.875	2	The interval between 13248 to 13310 feet (7021.56 to 7022.33 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



Company

Well

Interval

Created

Anadarko

GOOSE 9N-A8HZ

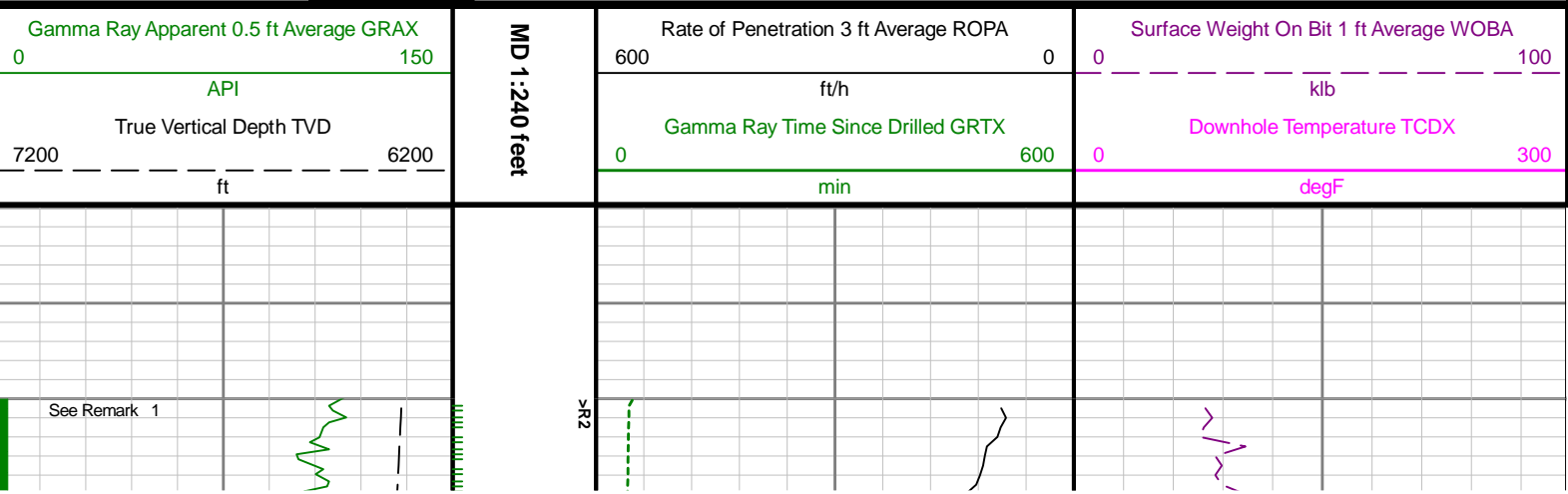
Date From: 2015-07-02 03:20

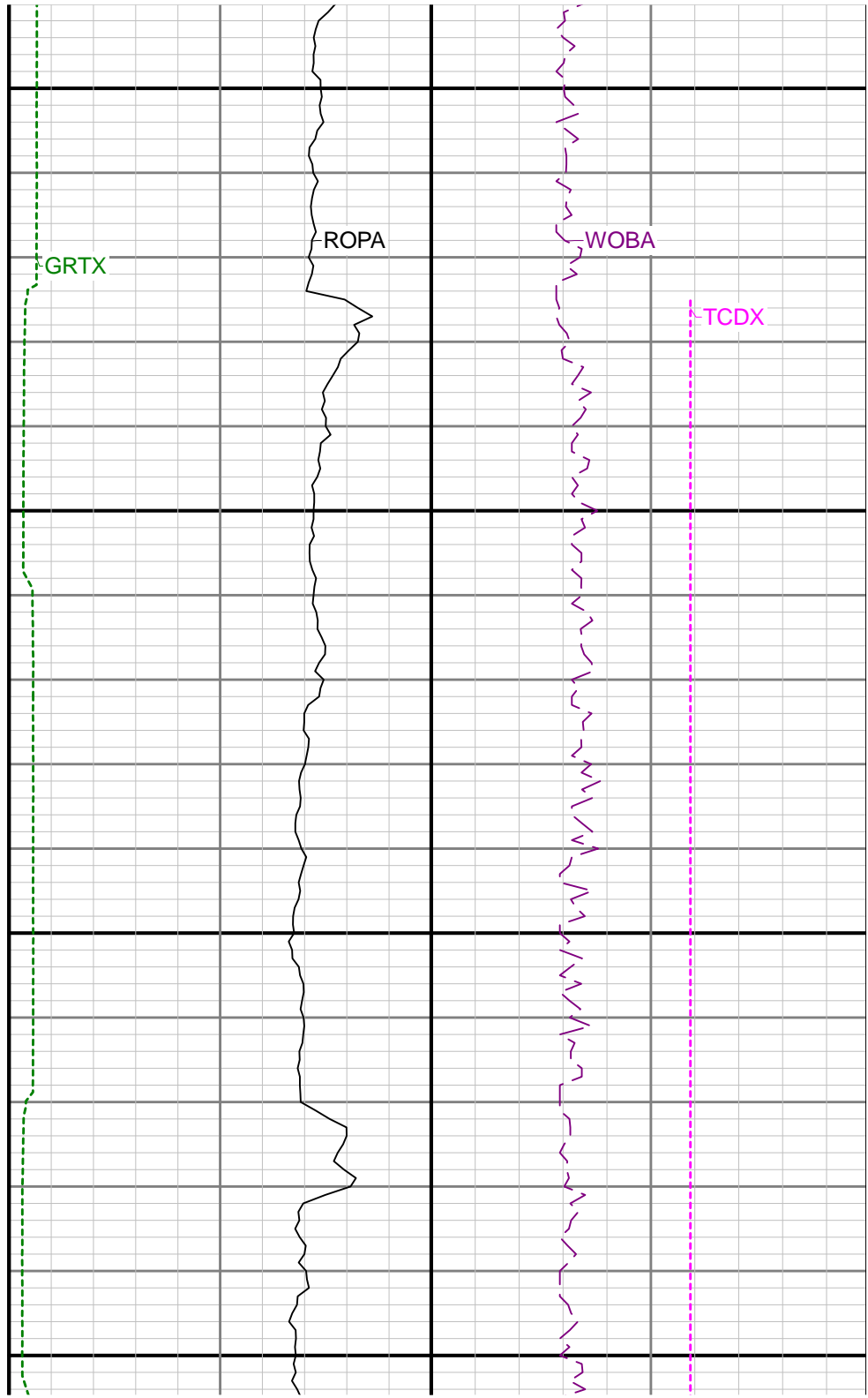
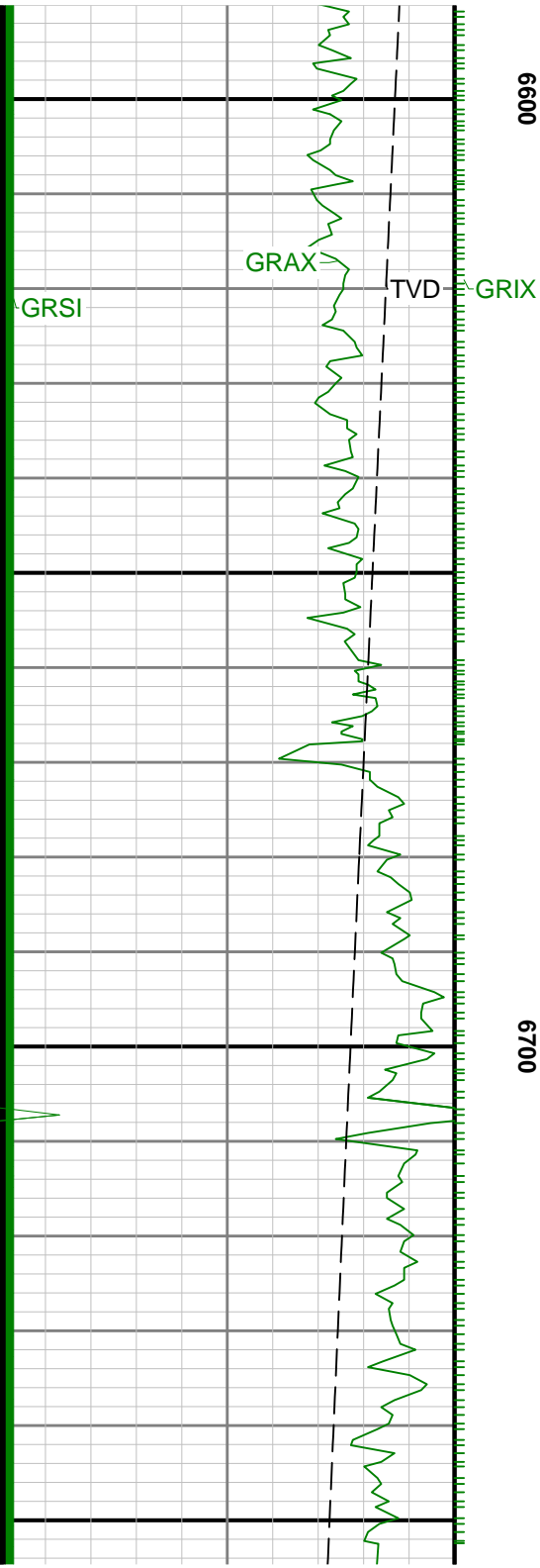
Date To: 2015-07-04 03:10

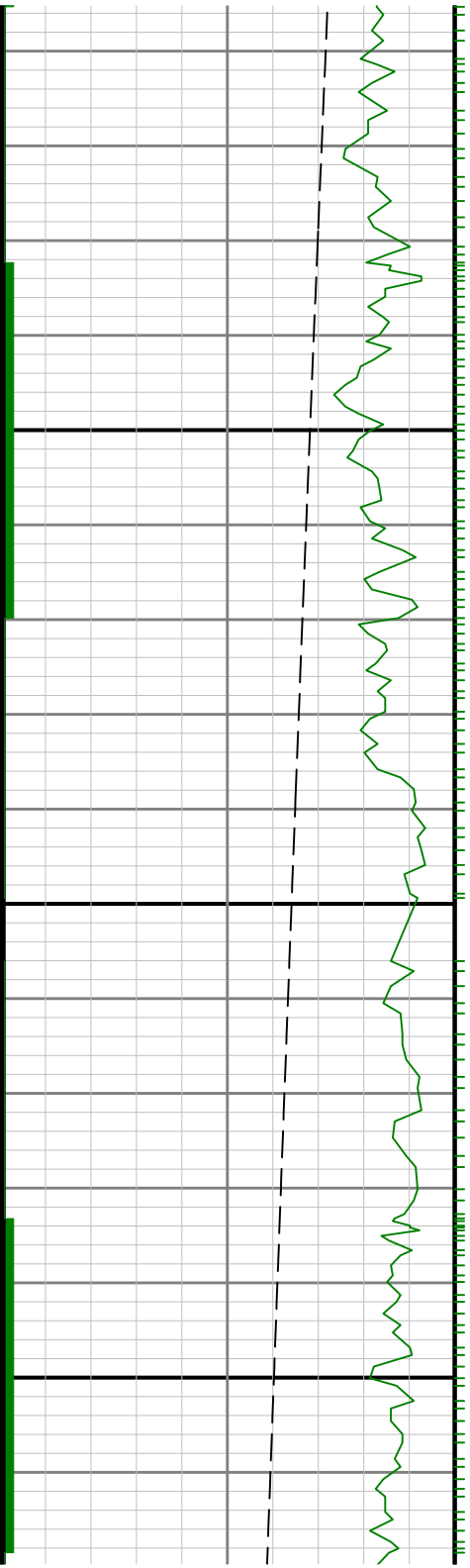
Created: 2015-07-04 04:41

Top: 6580.00

Bottom: 13310.00

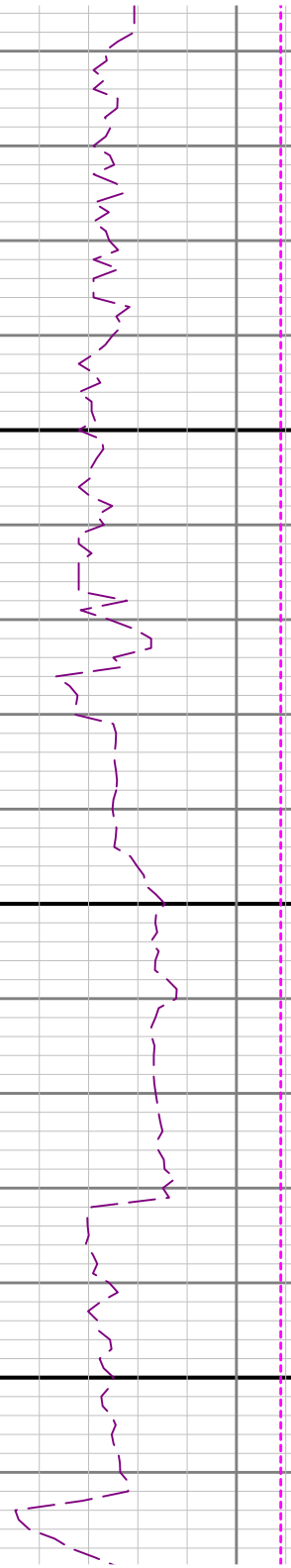
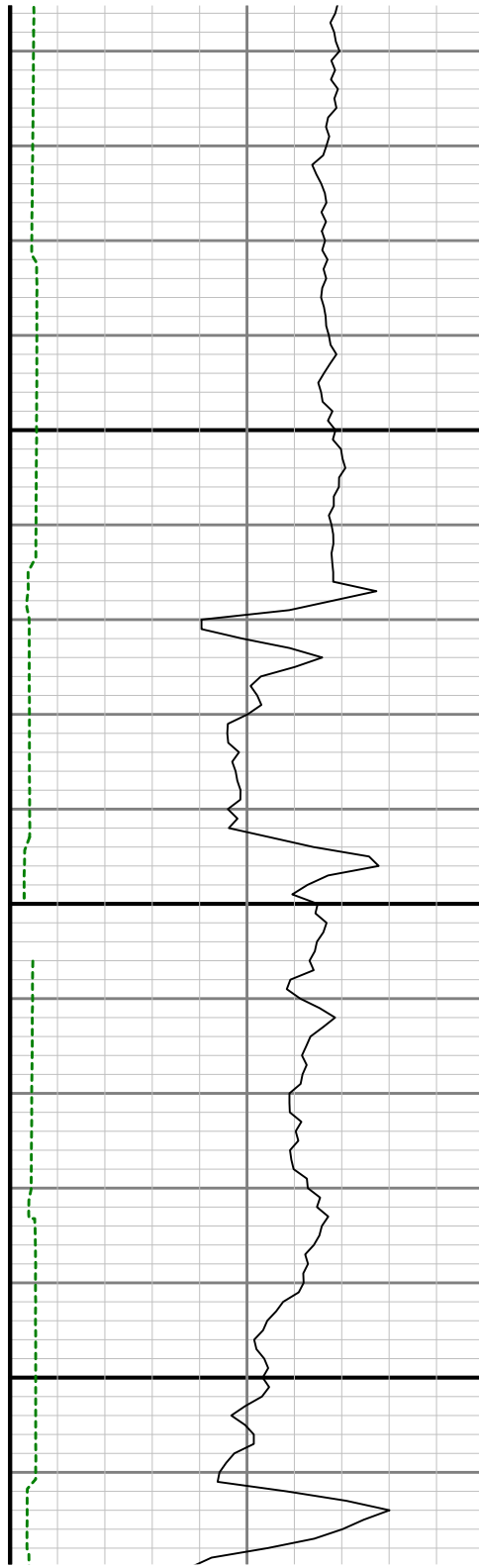


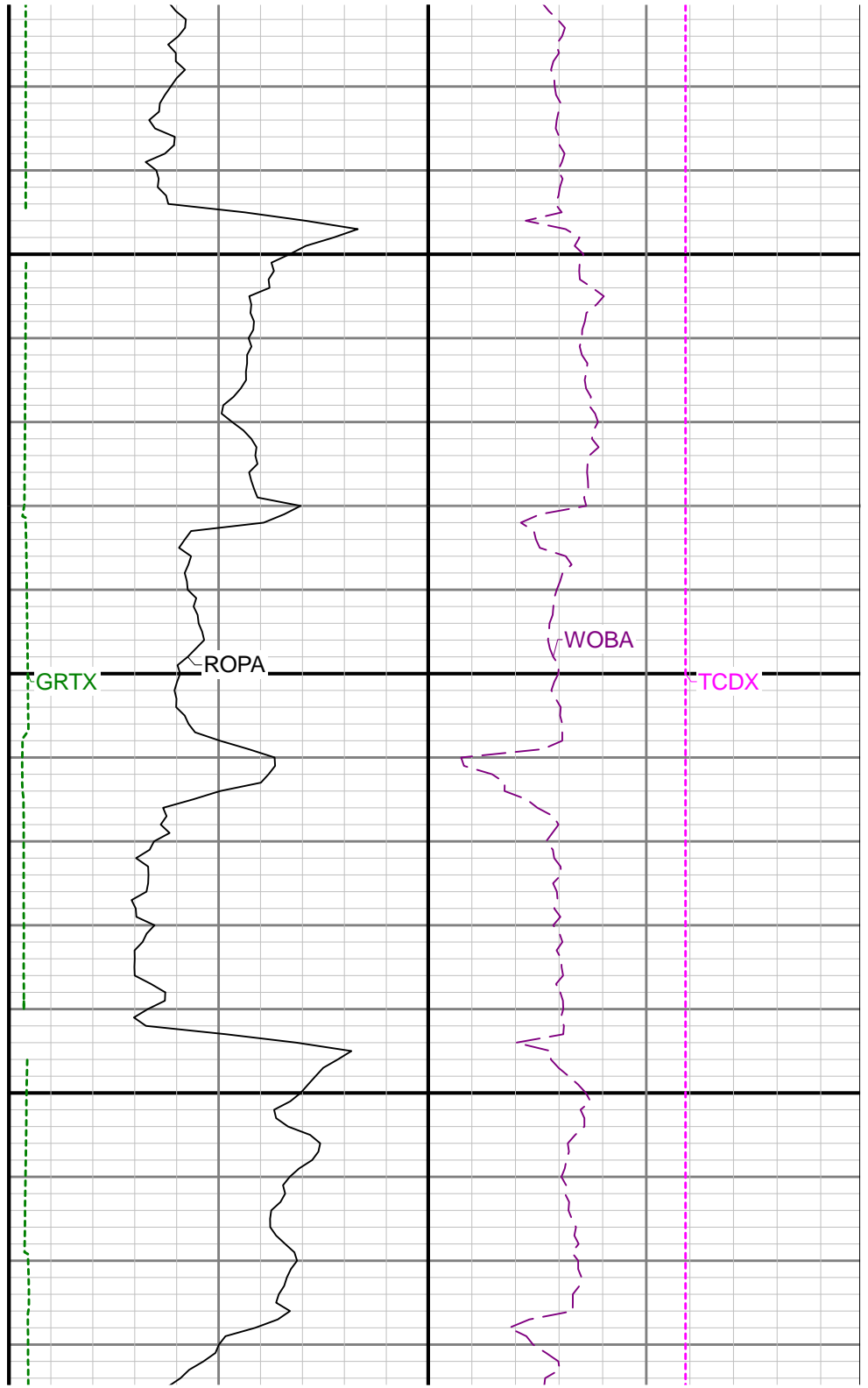
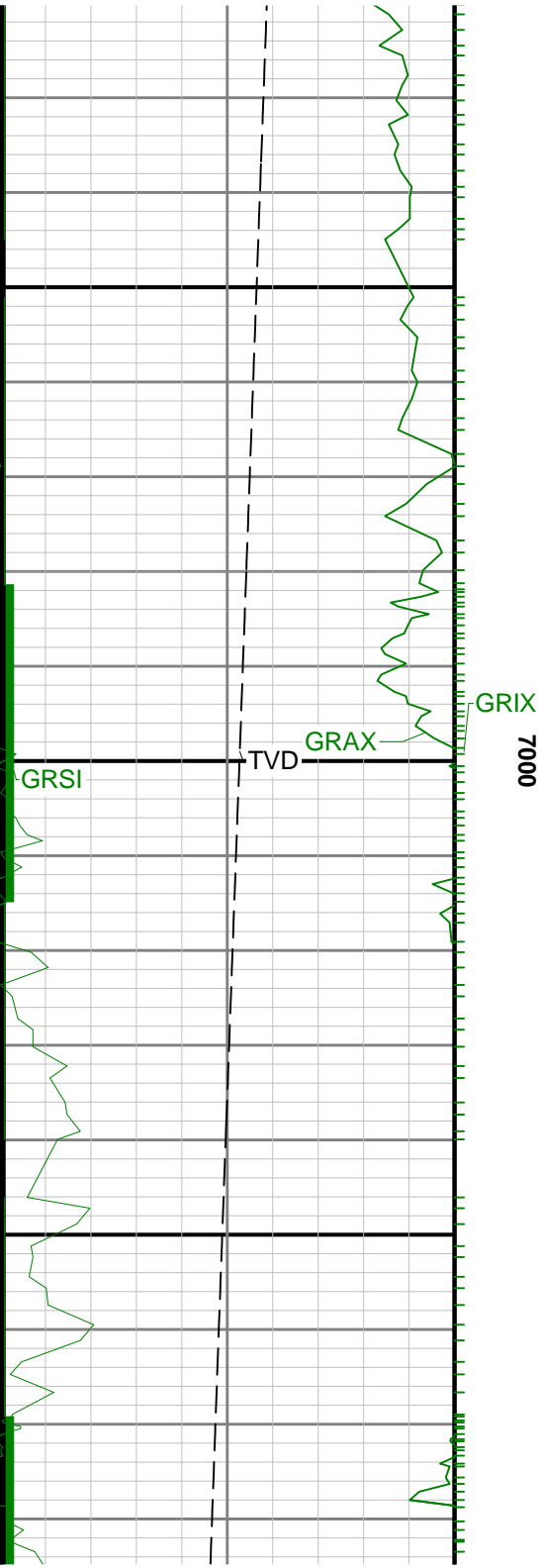




0069

0089

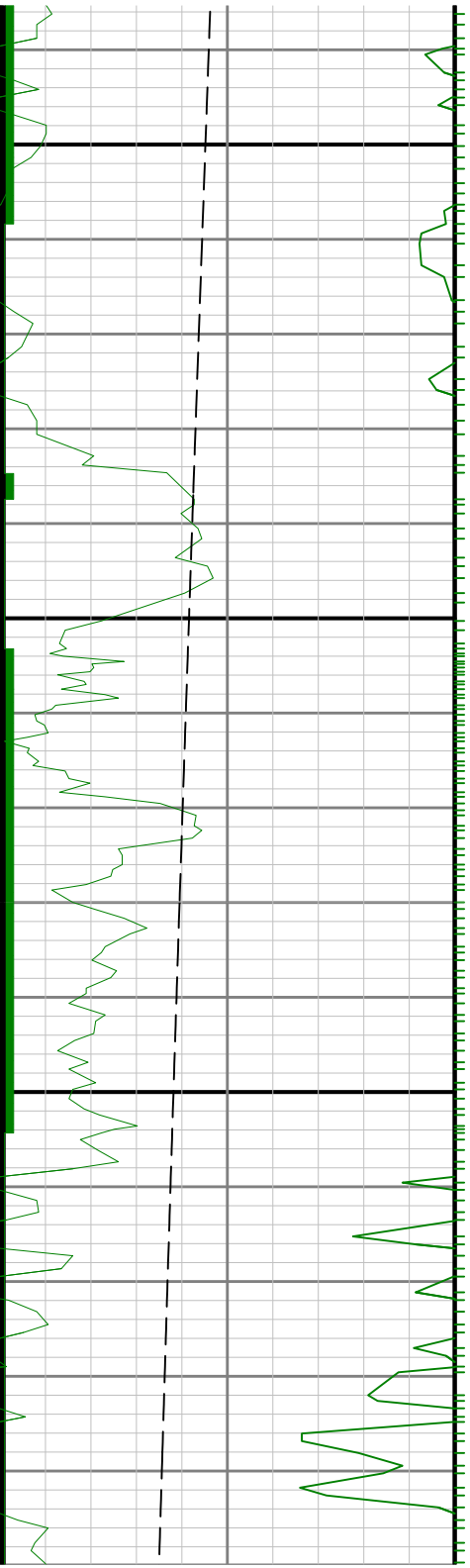


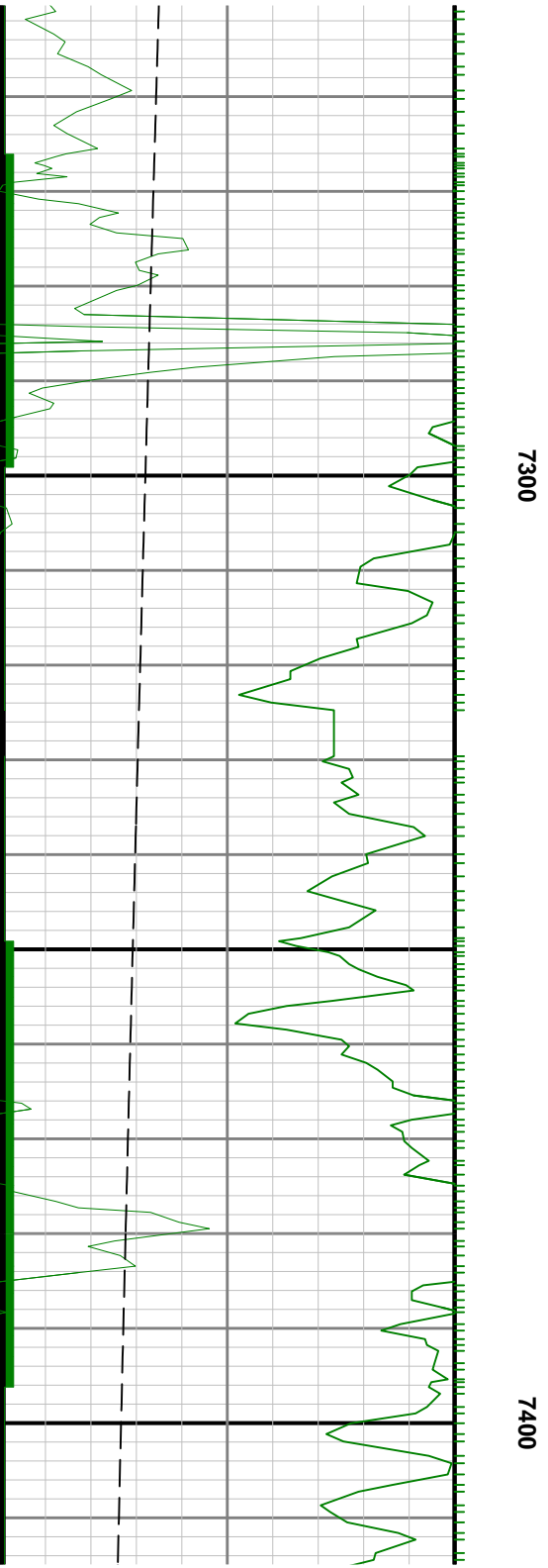


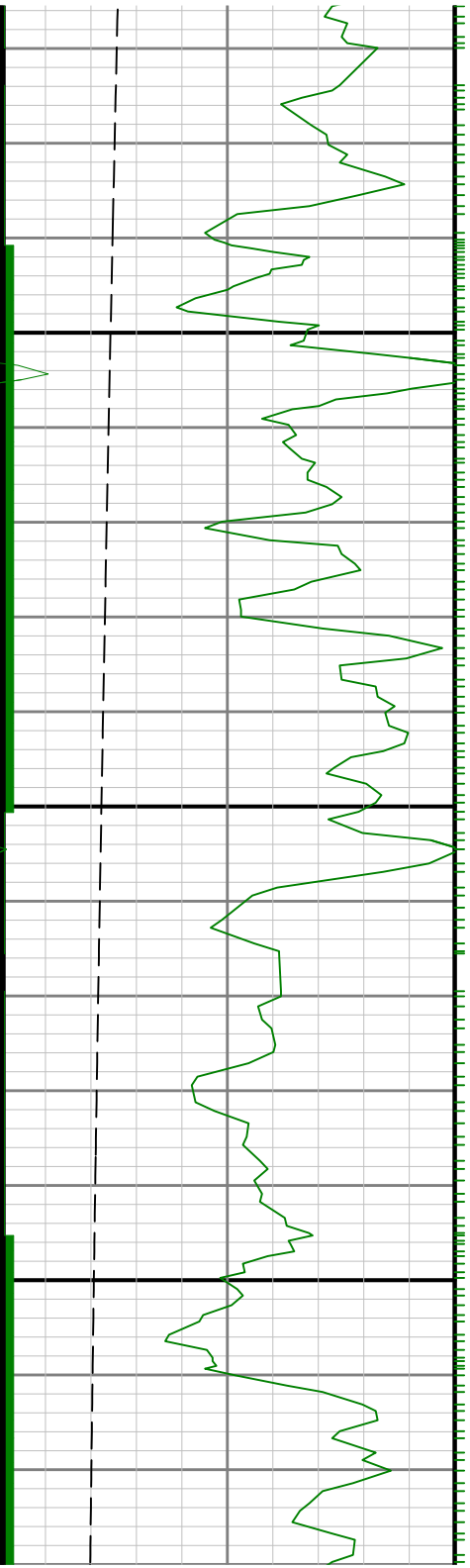


7100

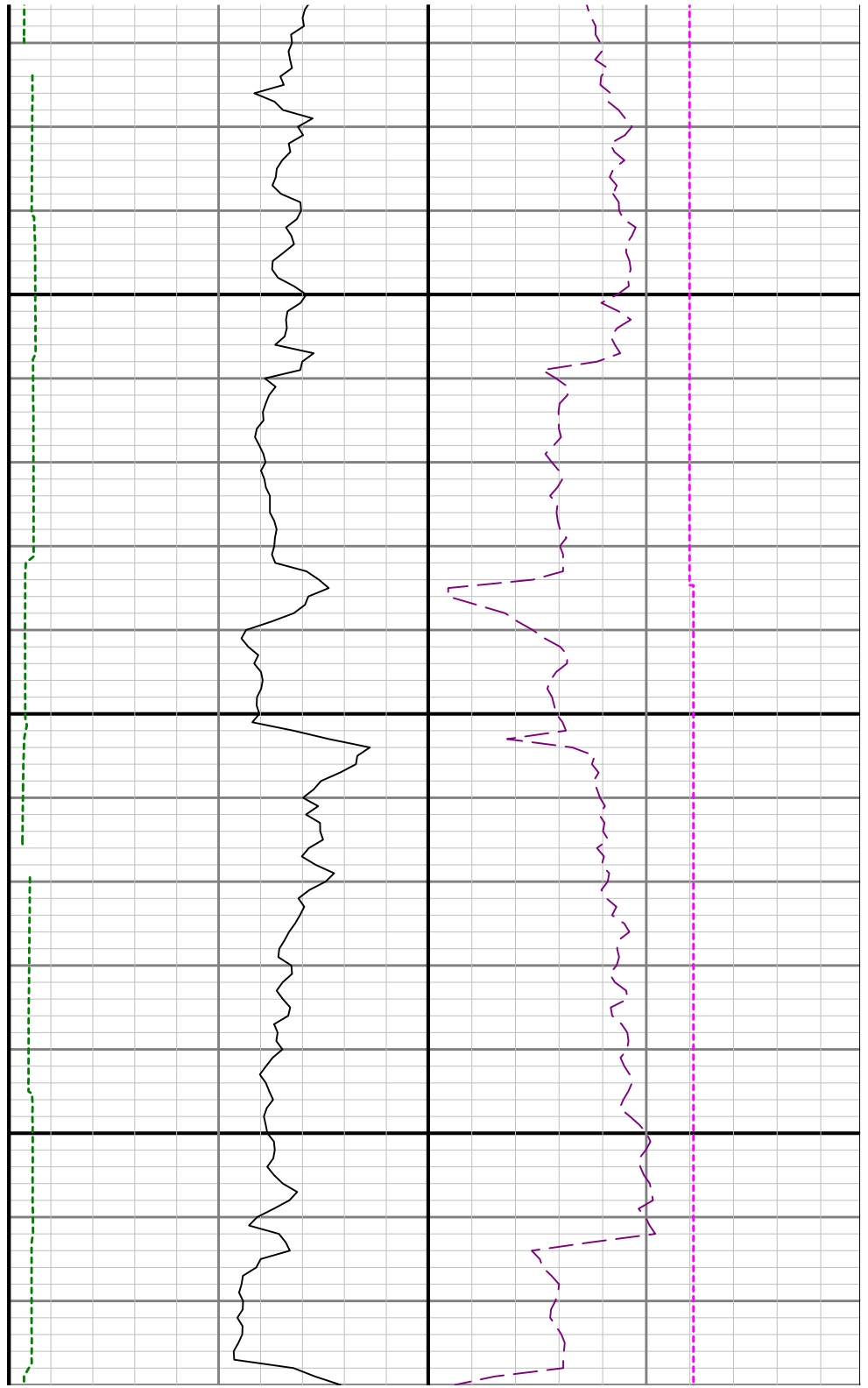
7200

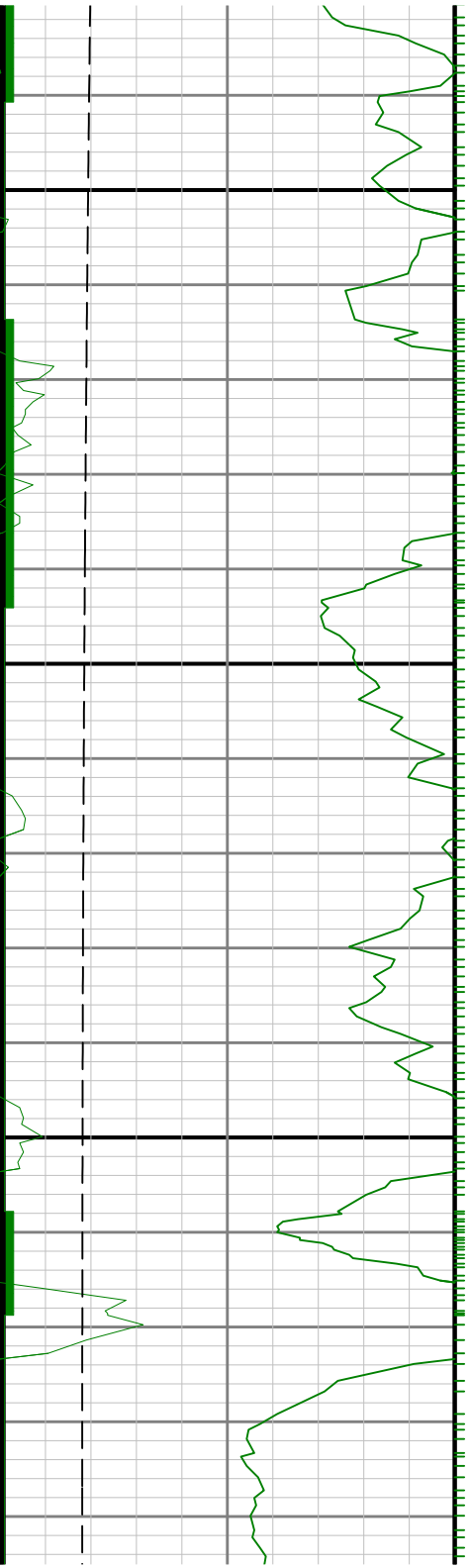






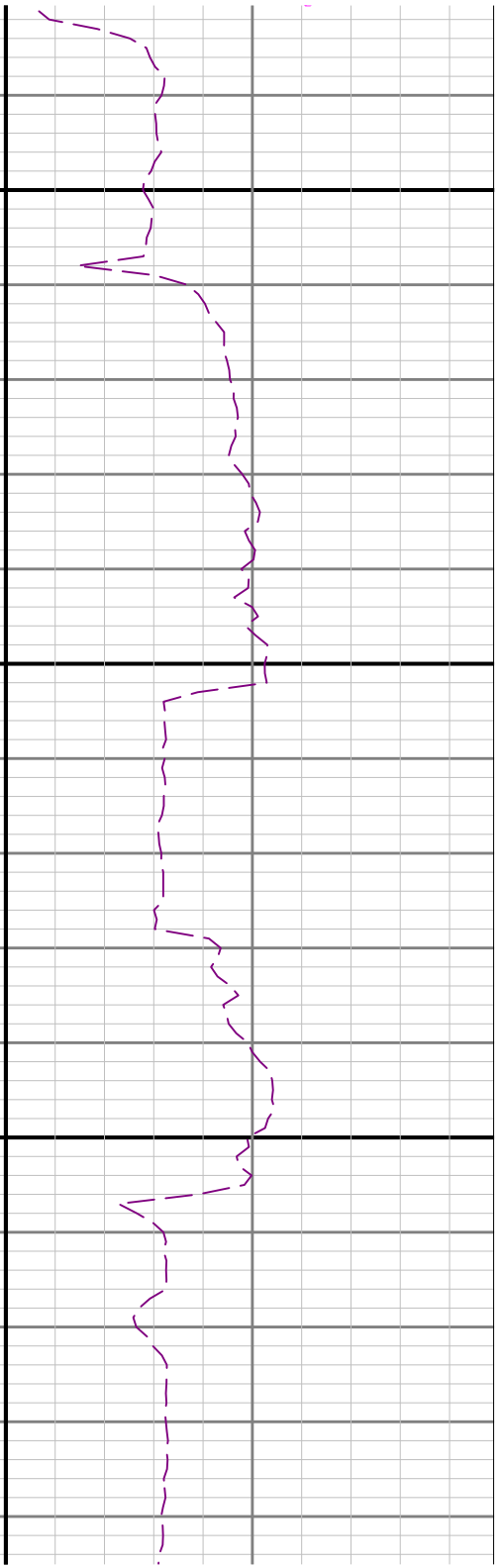
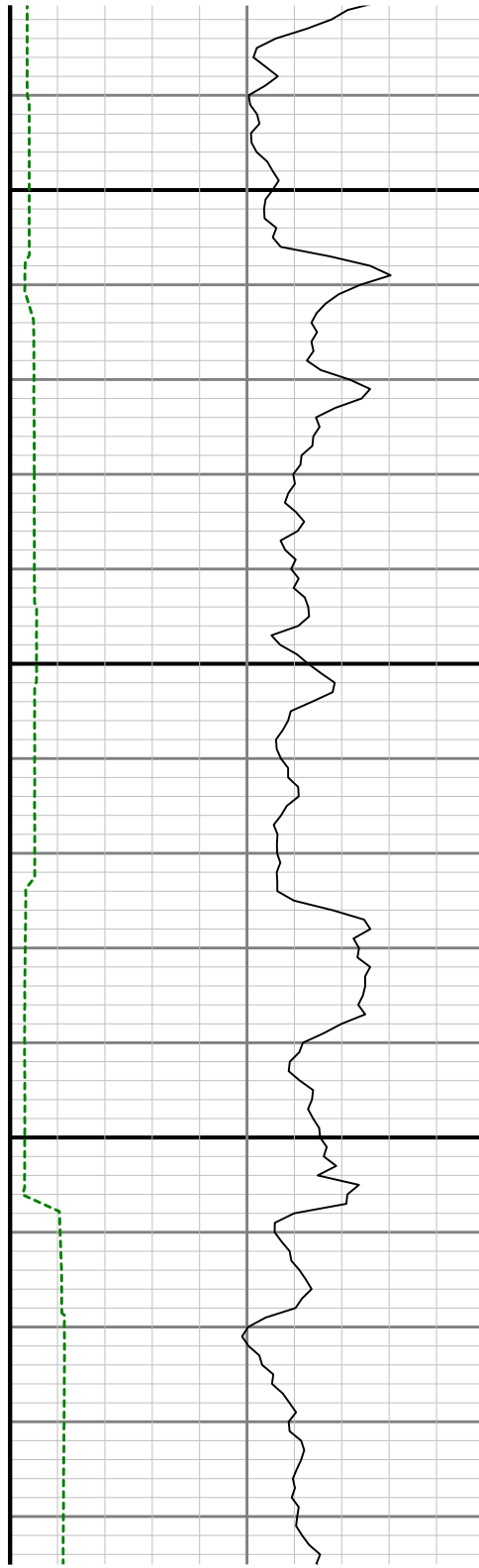
7500

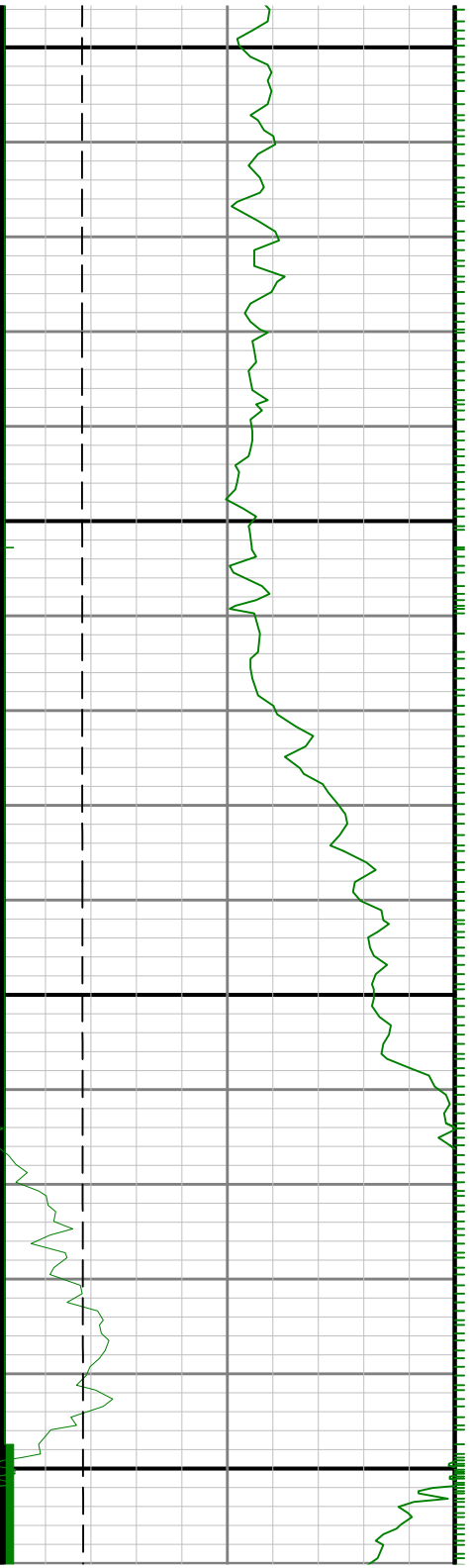




7600

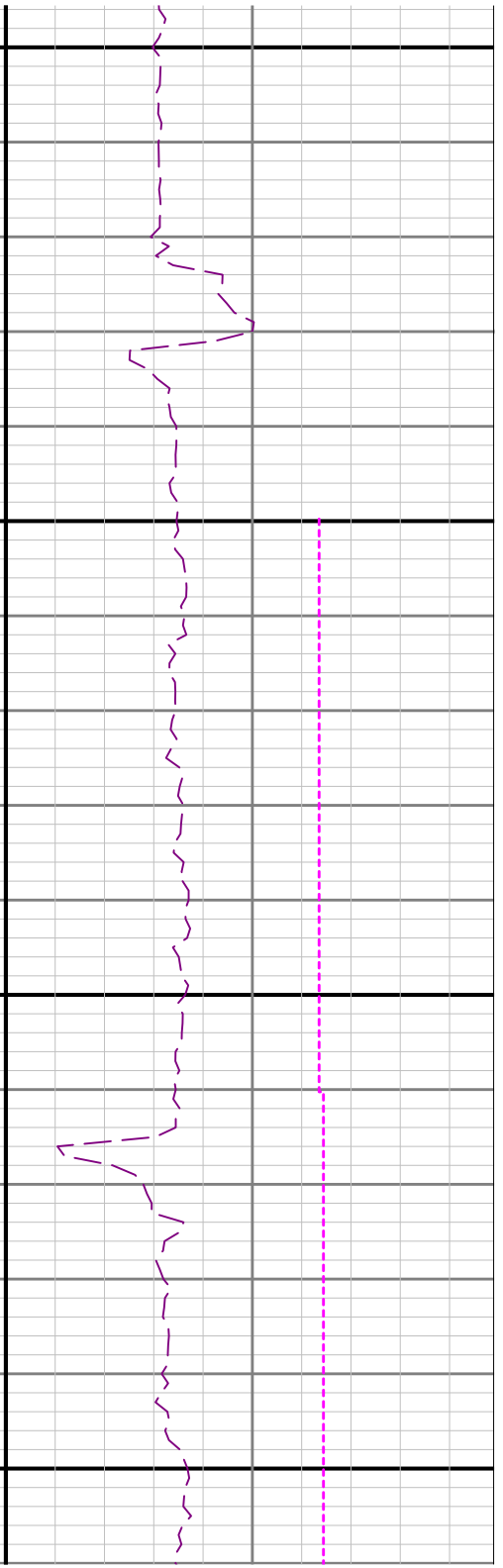
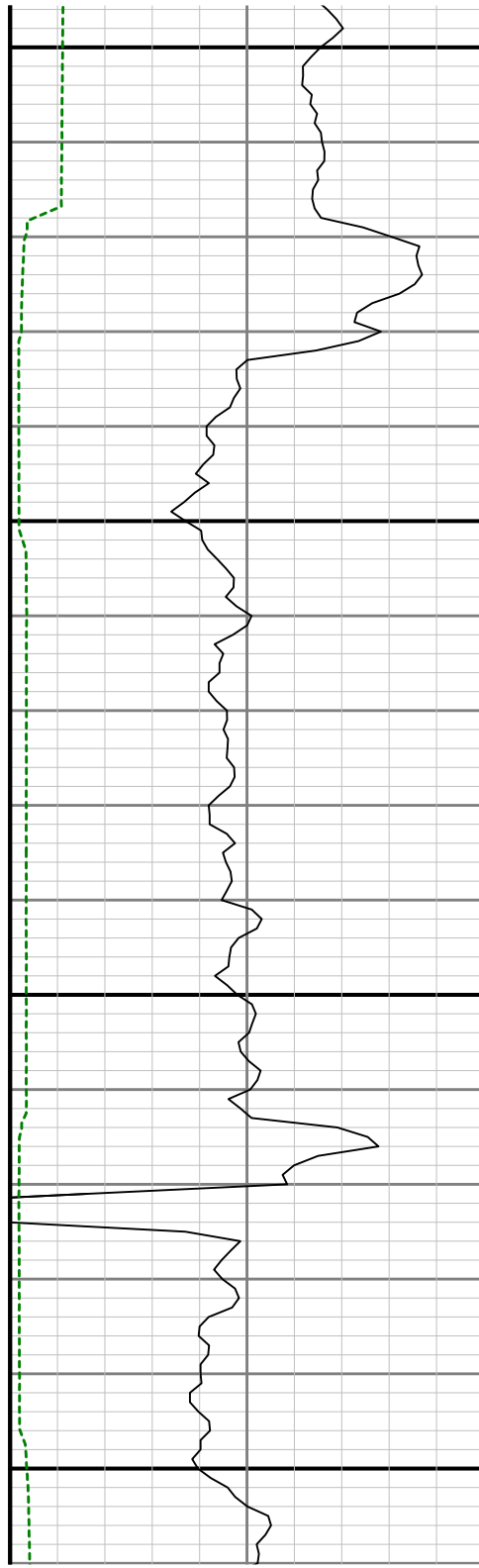
7700

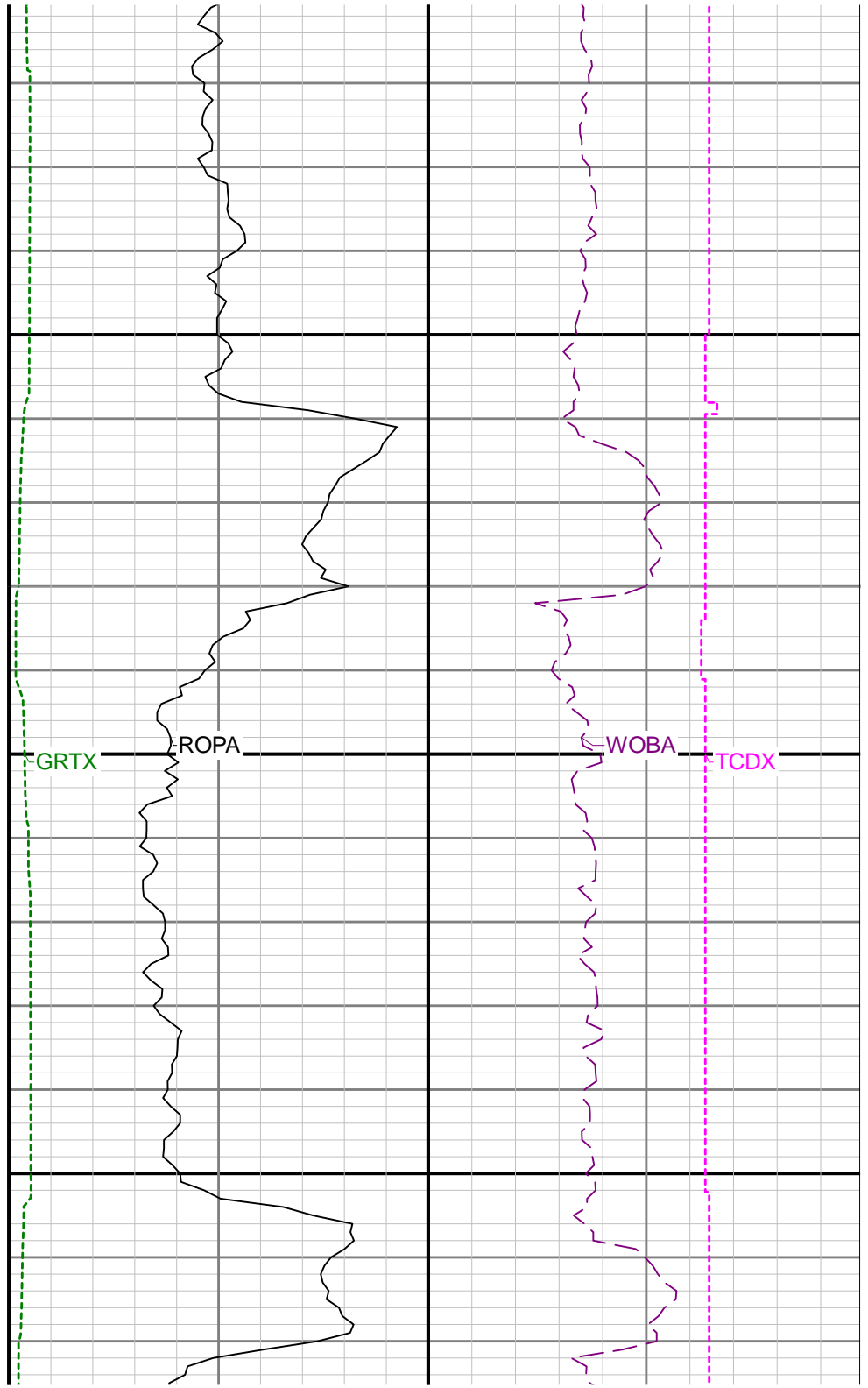
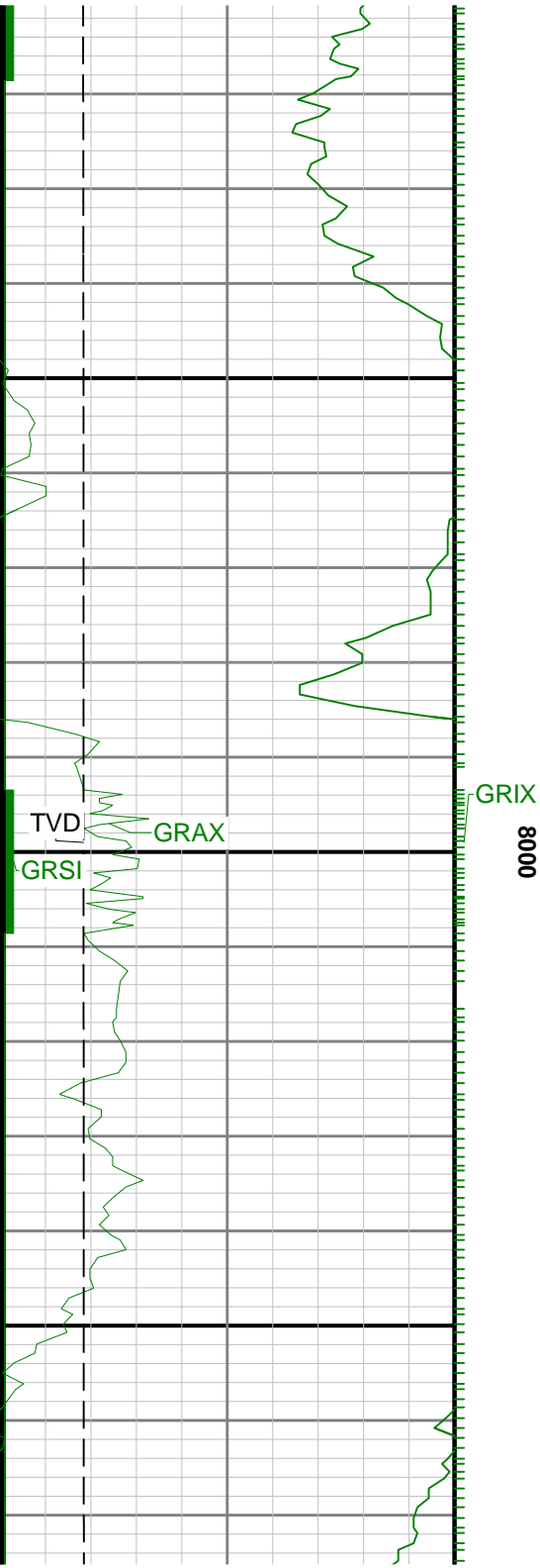


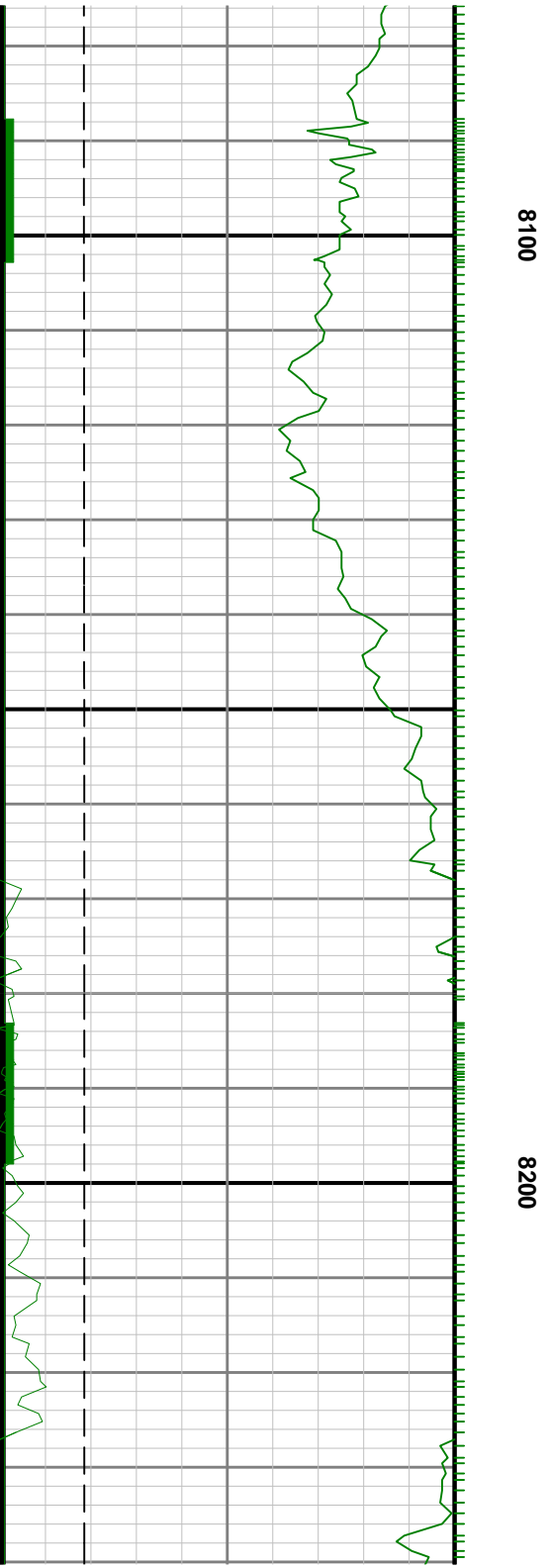
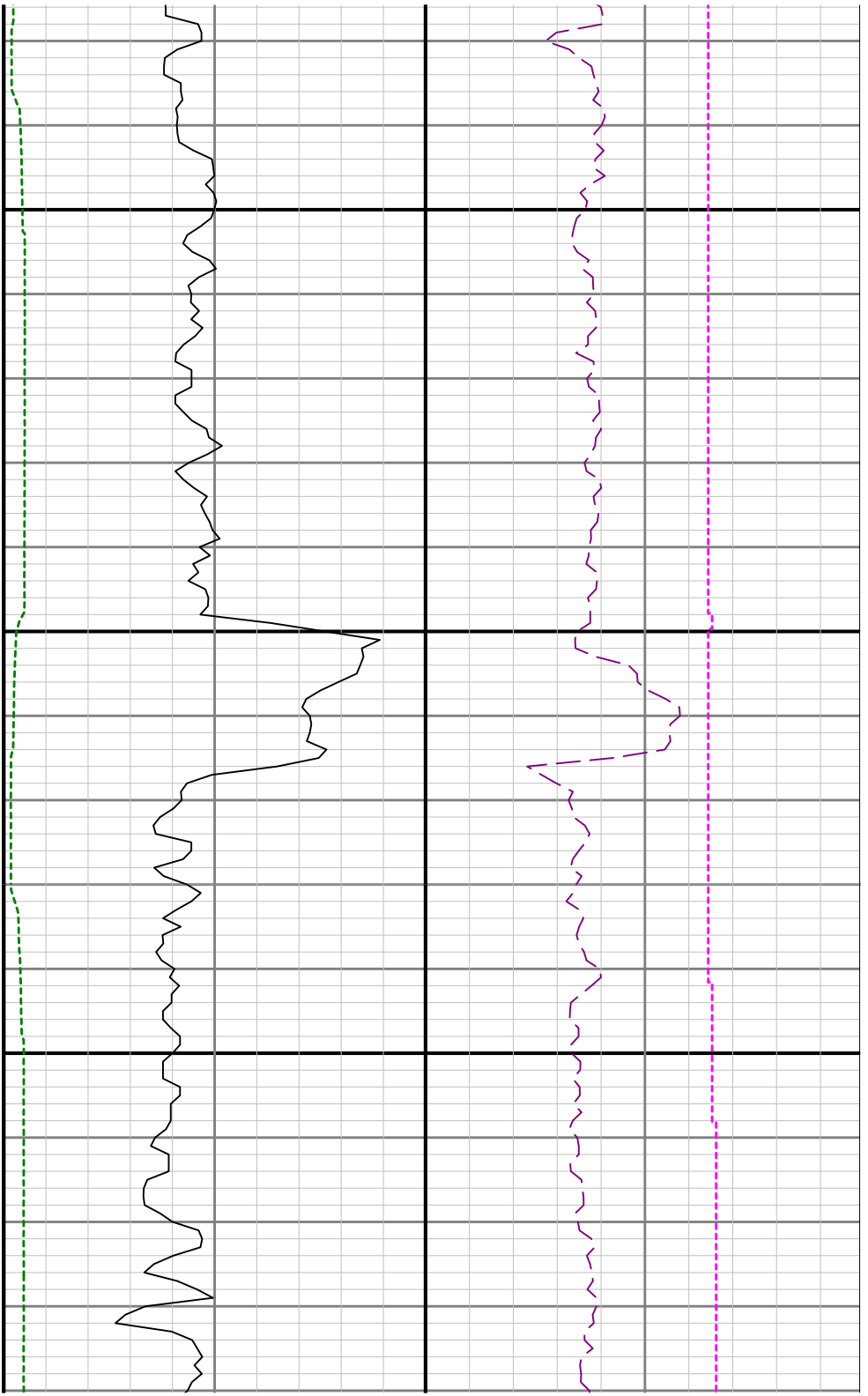


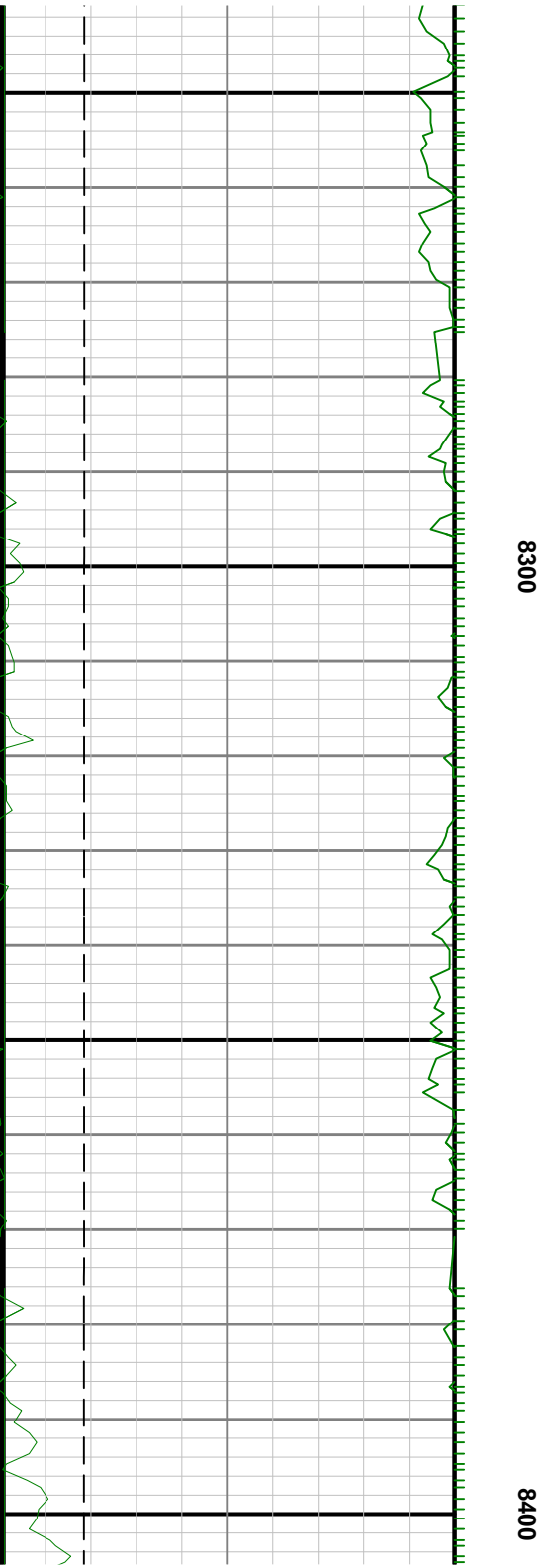
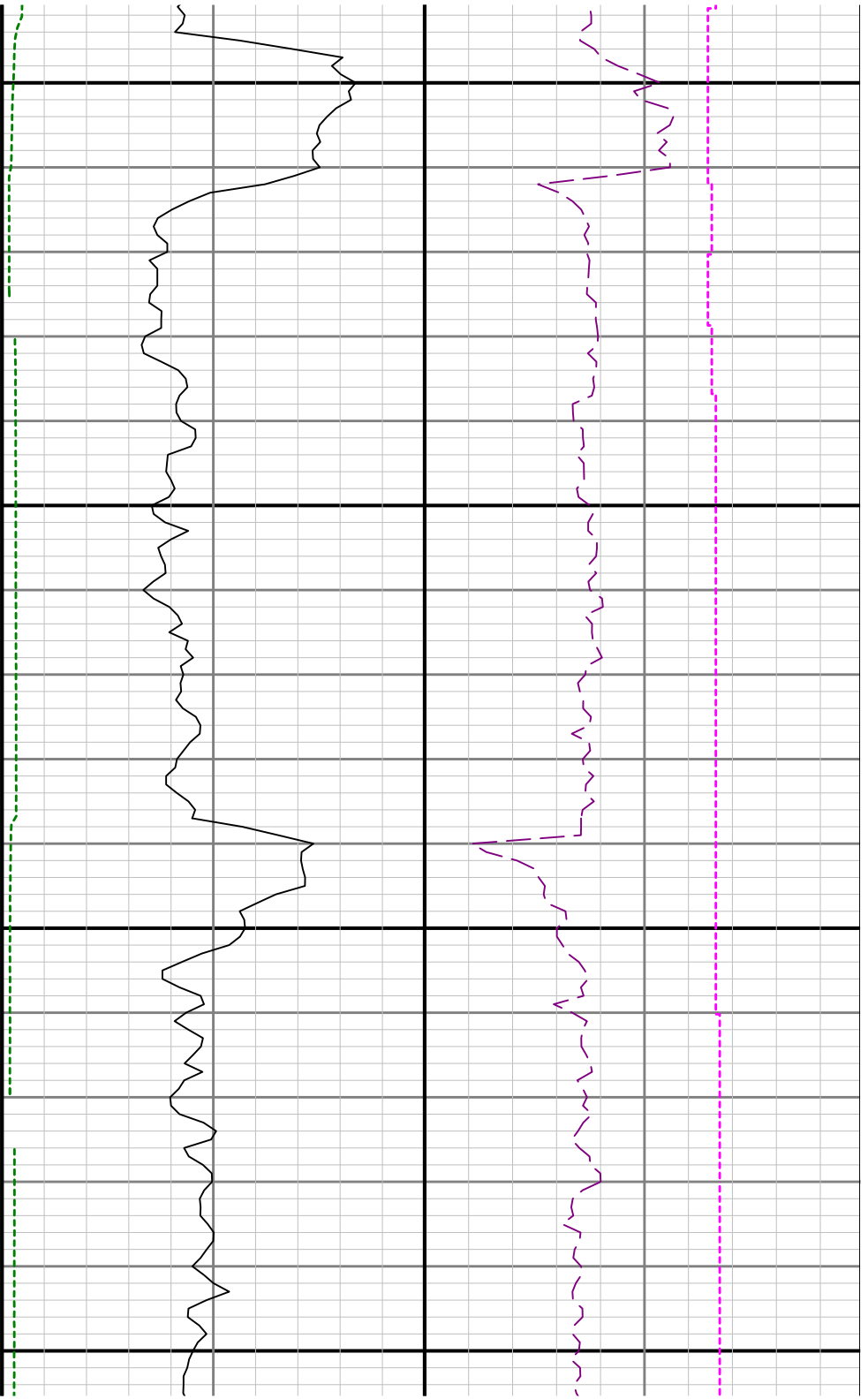
7800

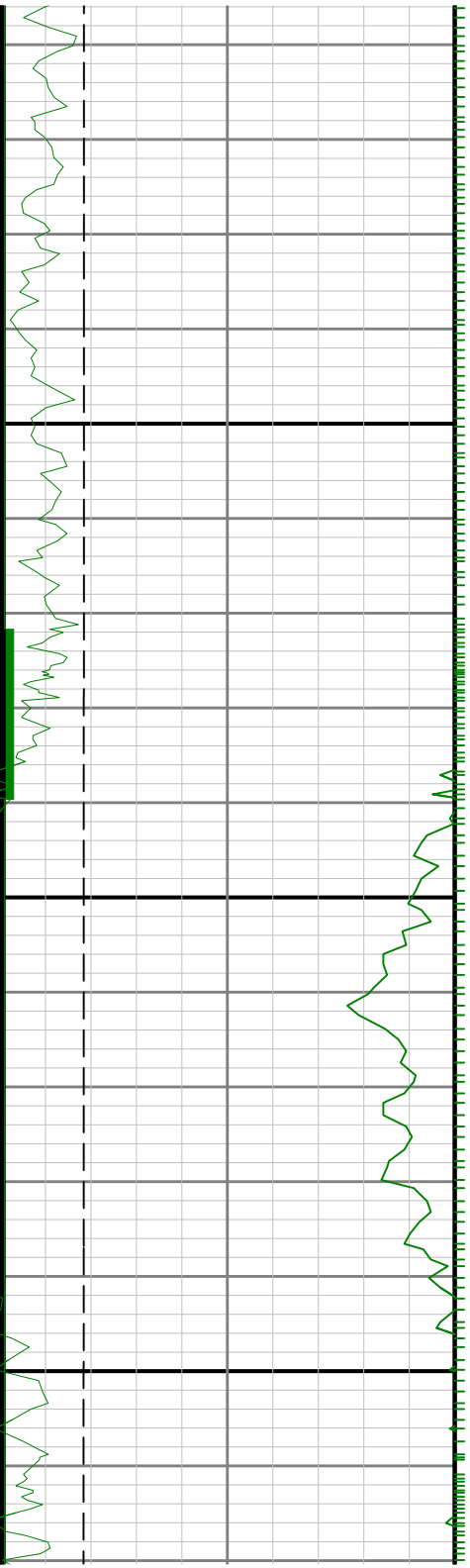
7900



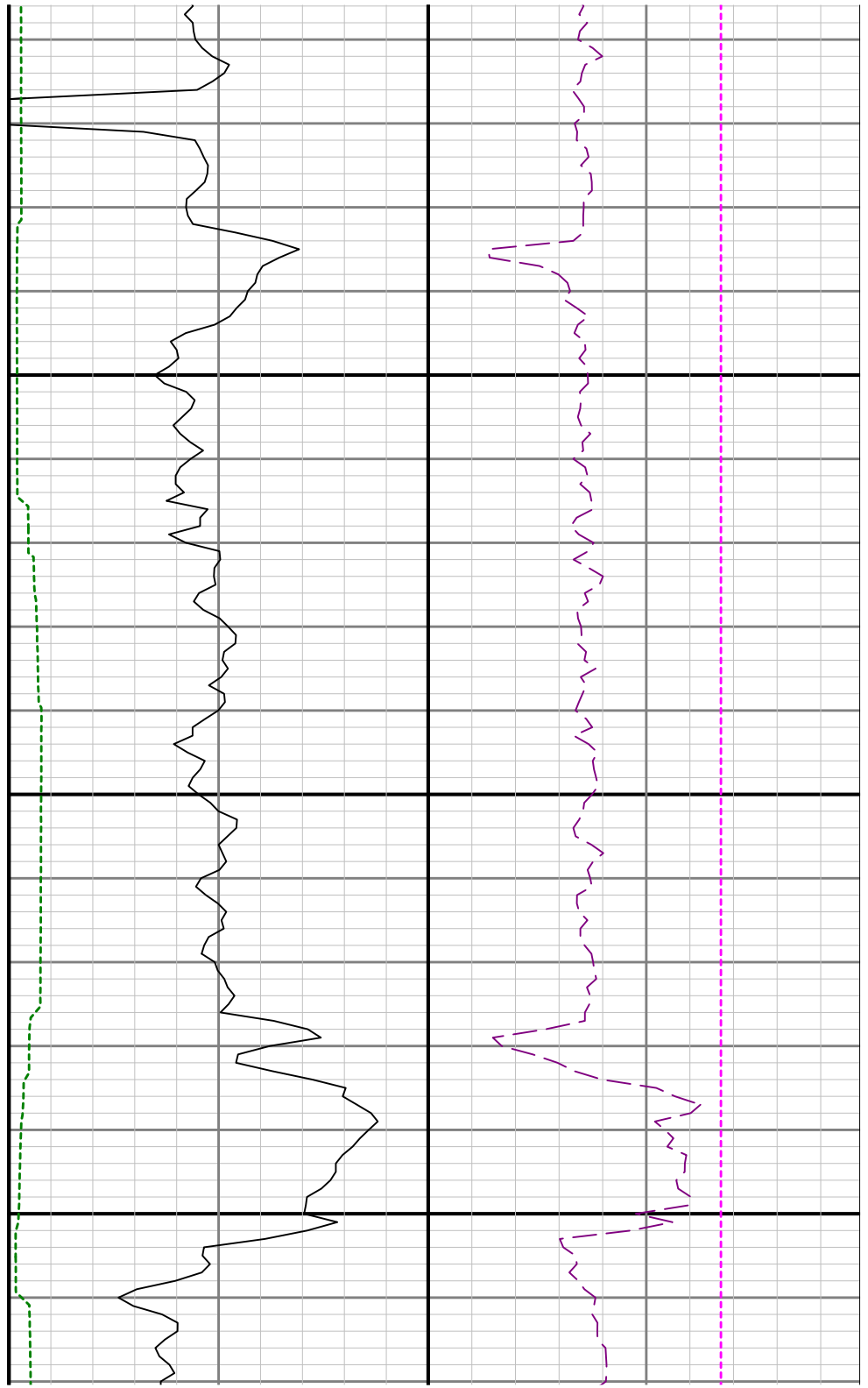


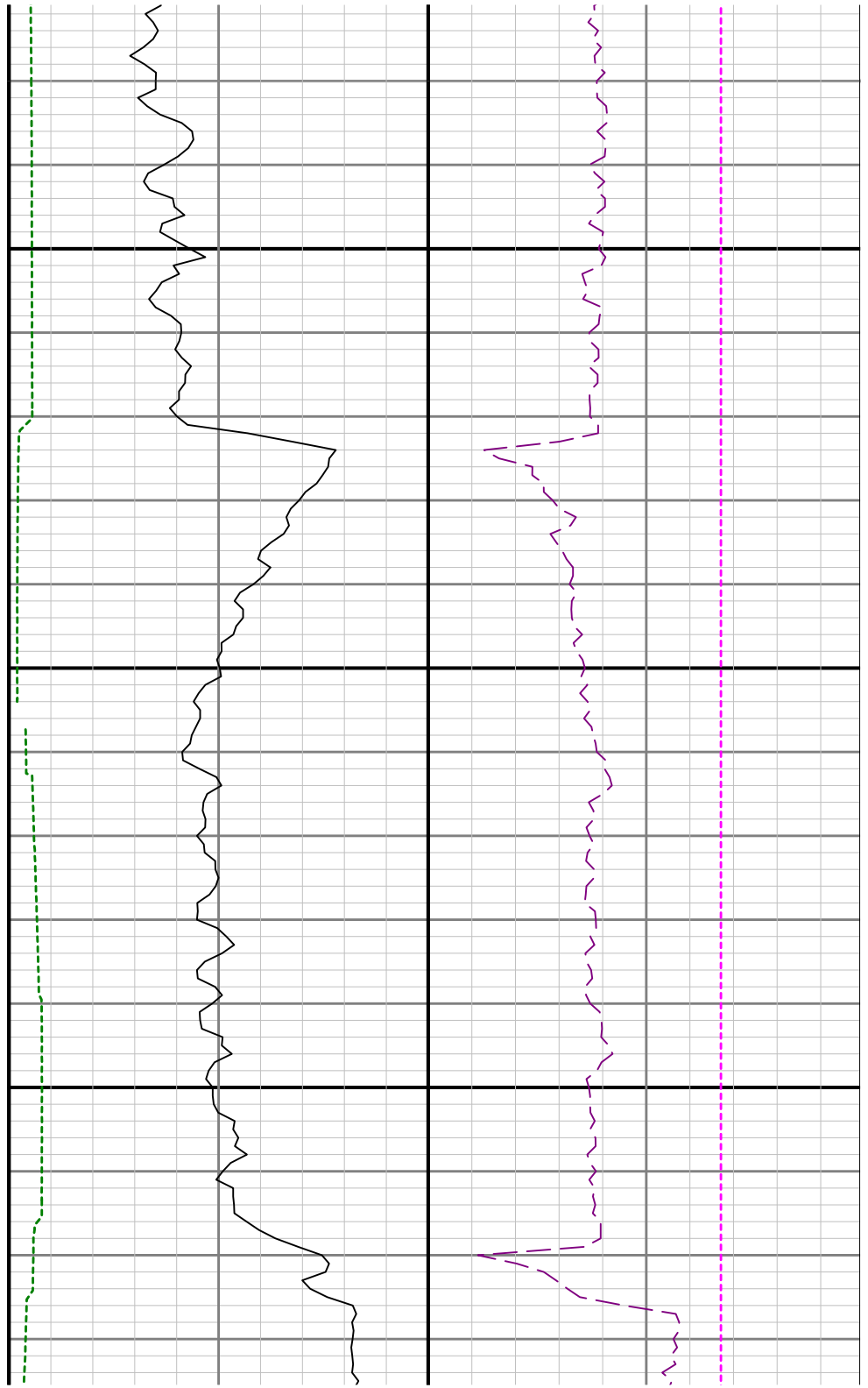
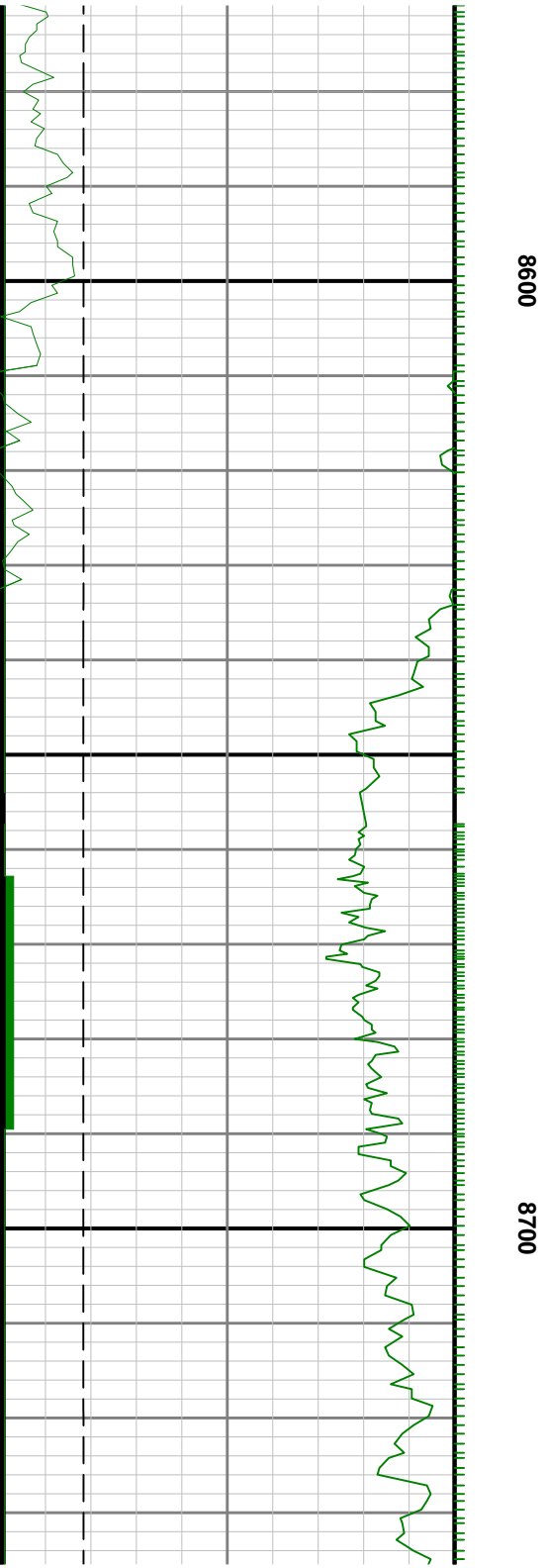


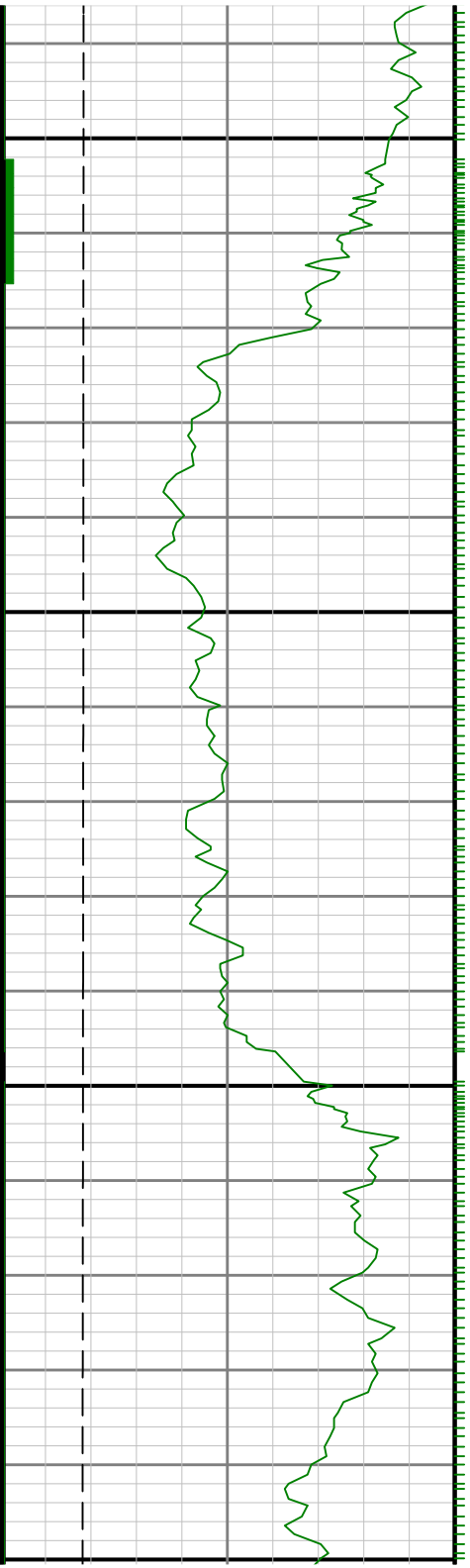




8500

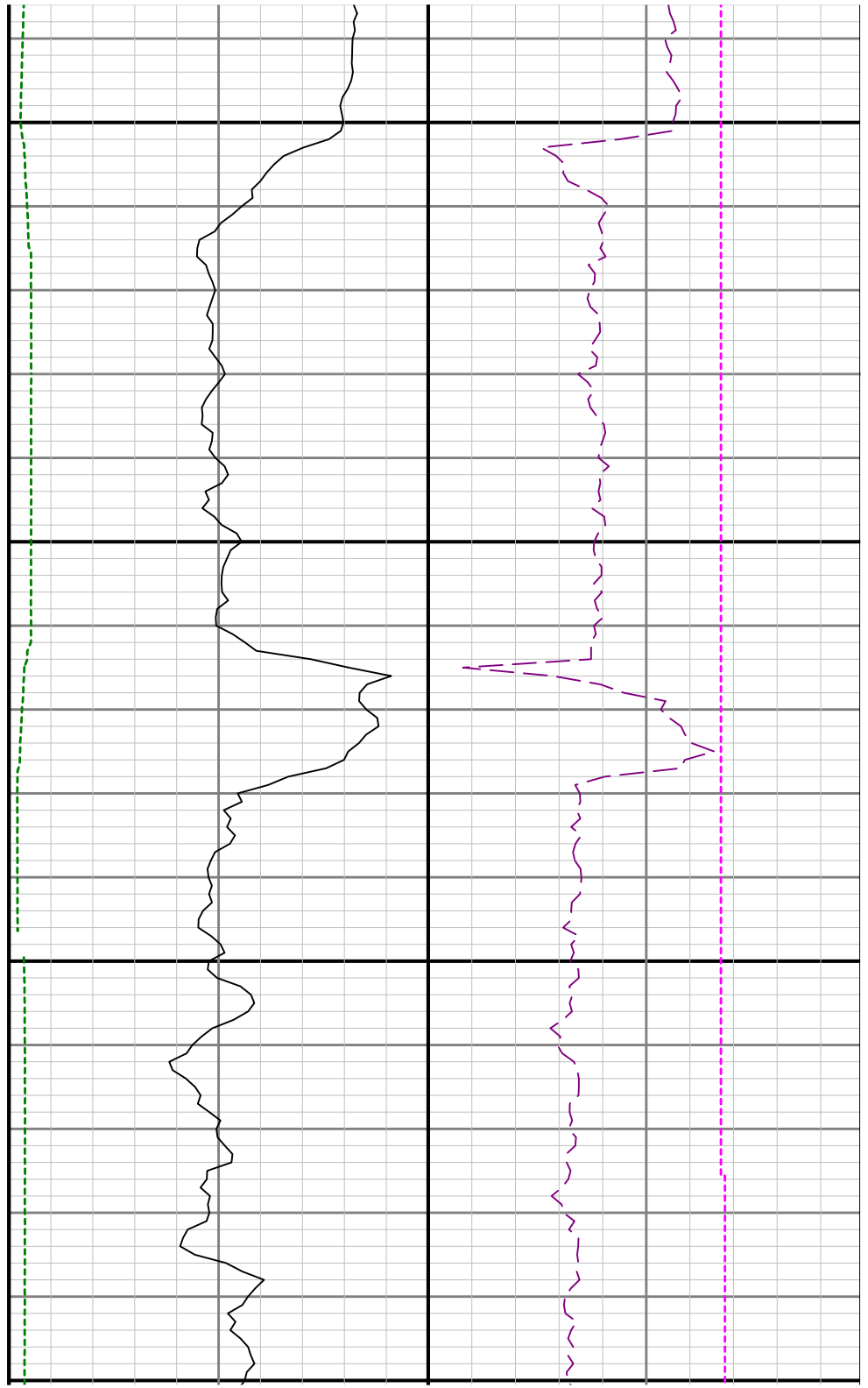


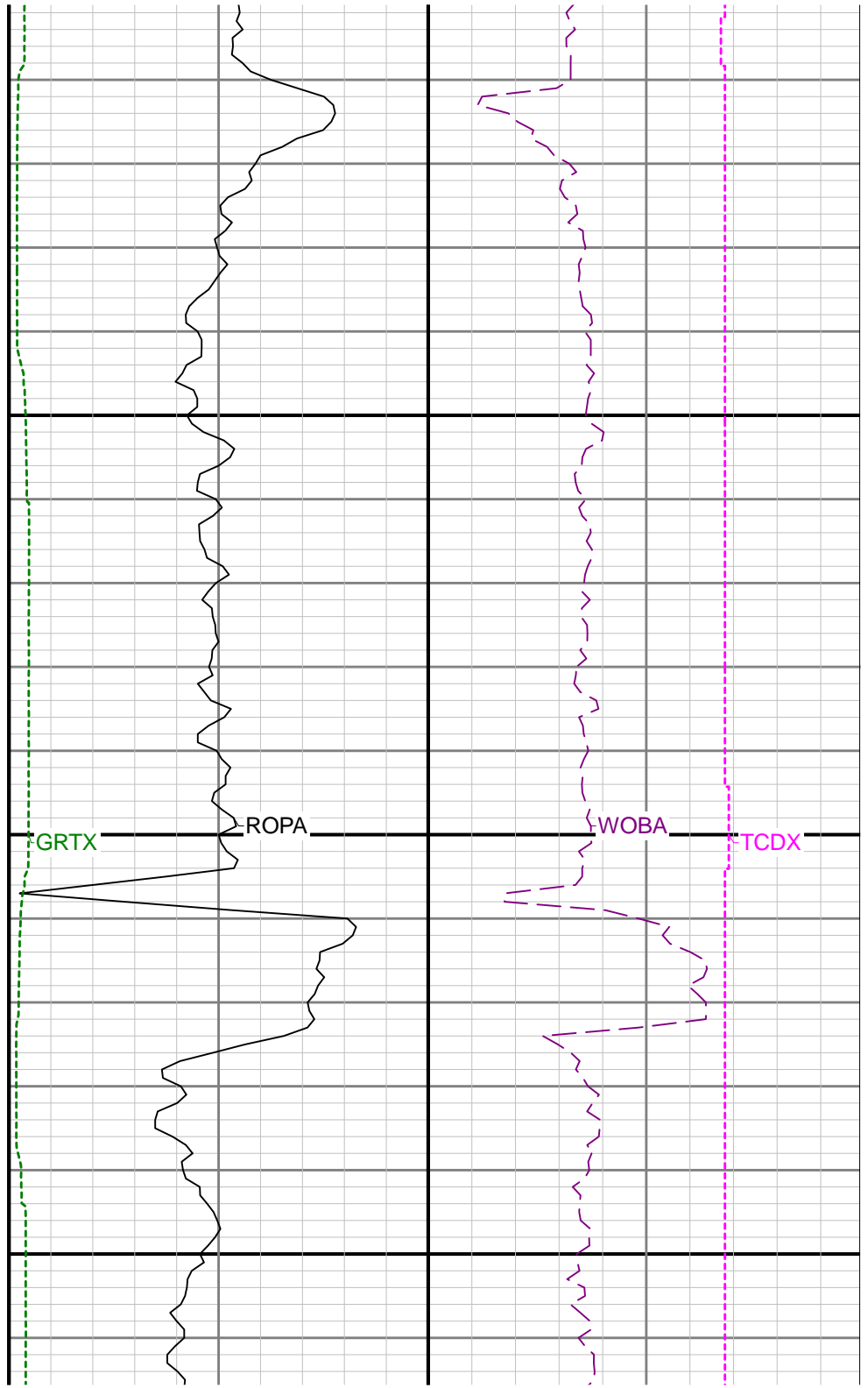
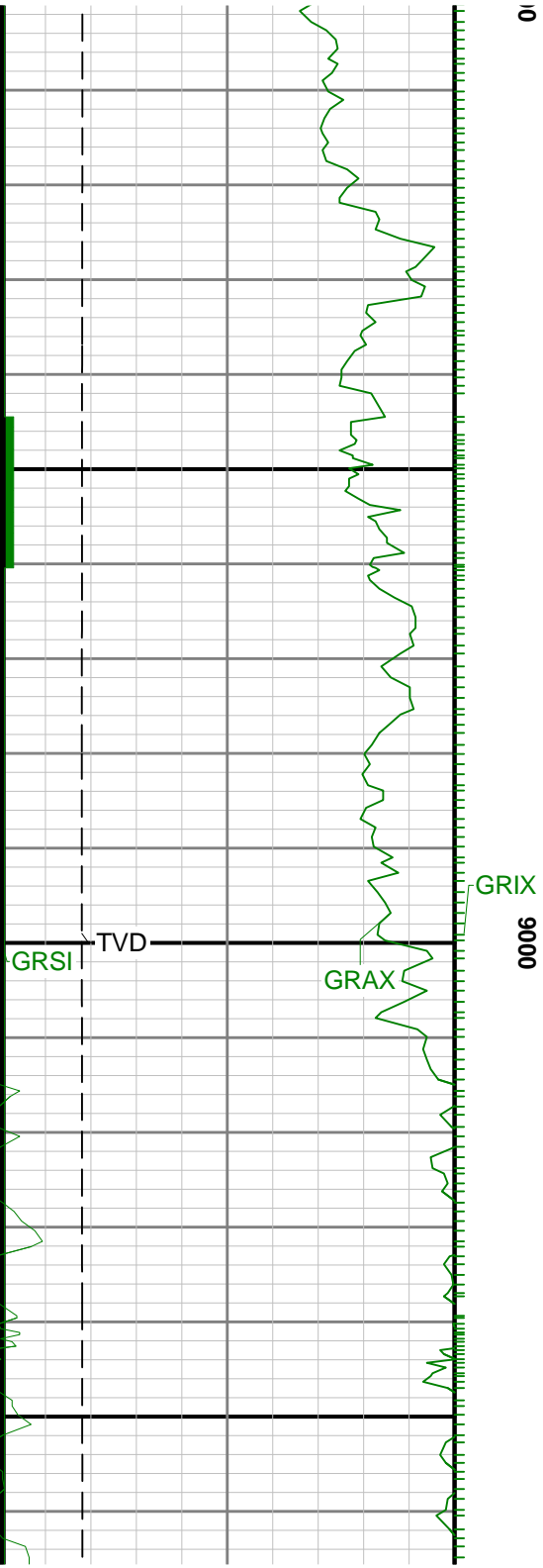


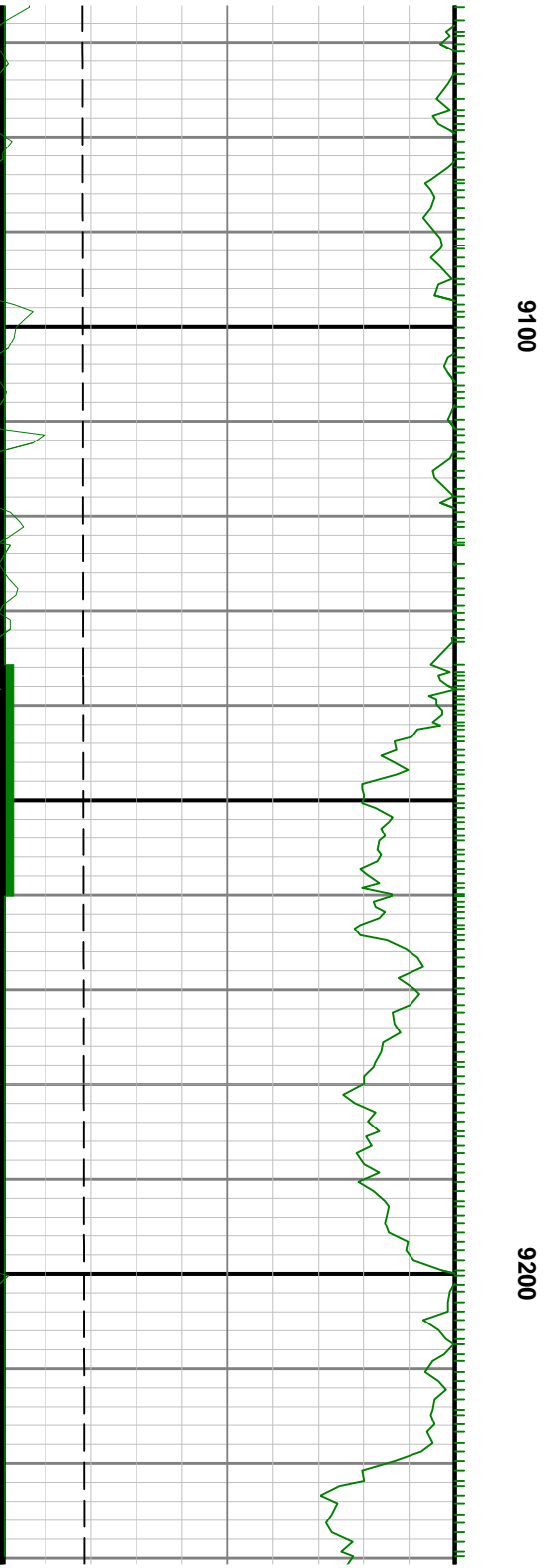
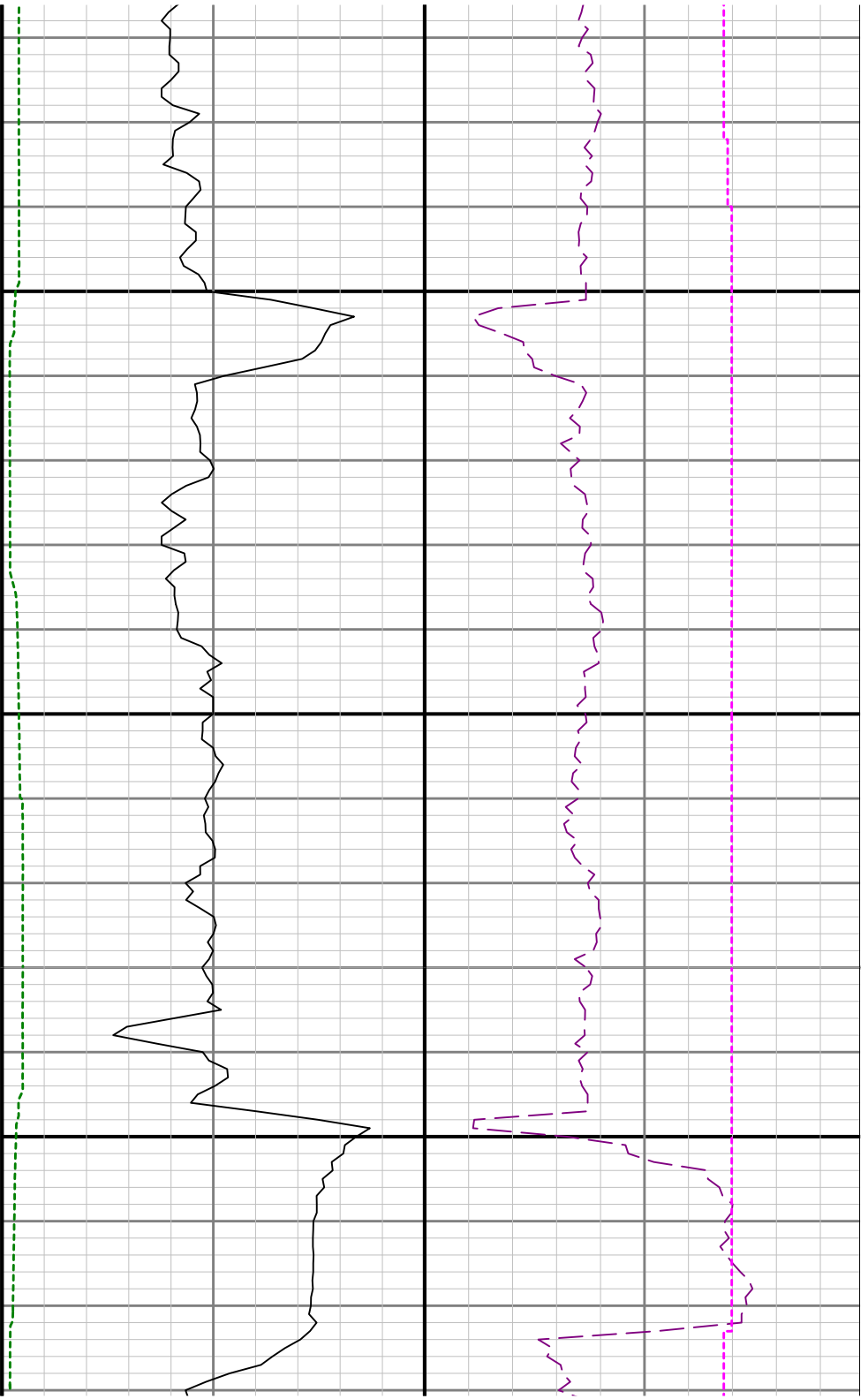


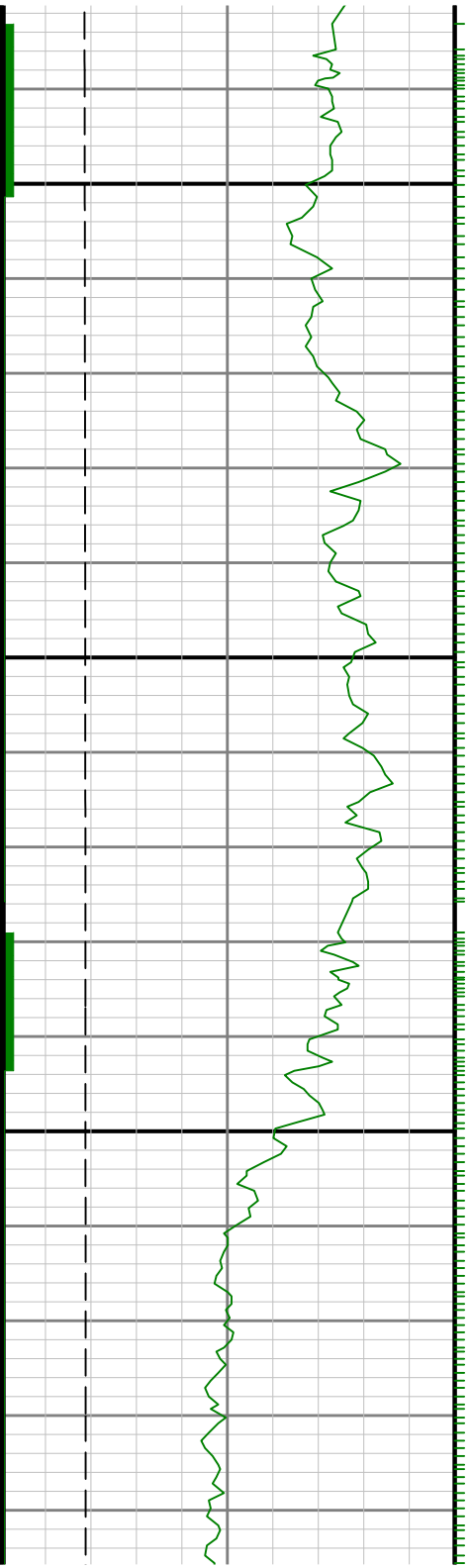
168

0088

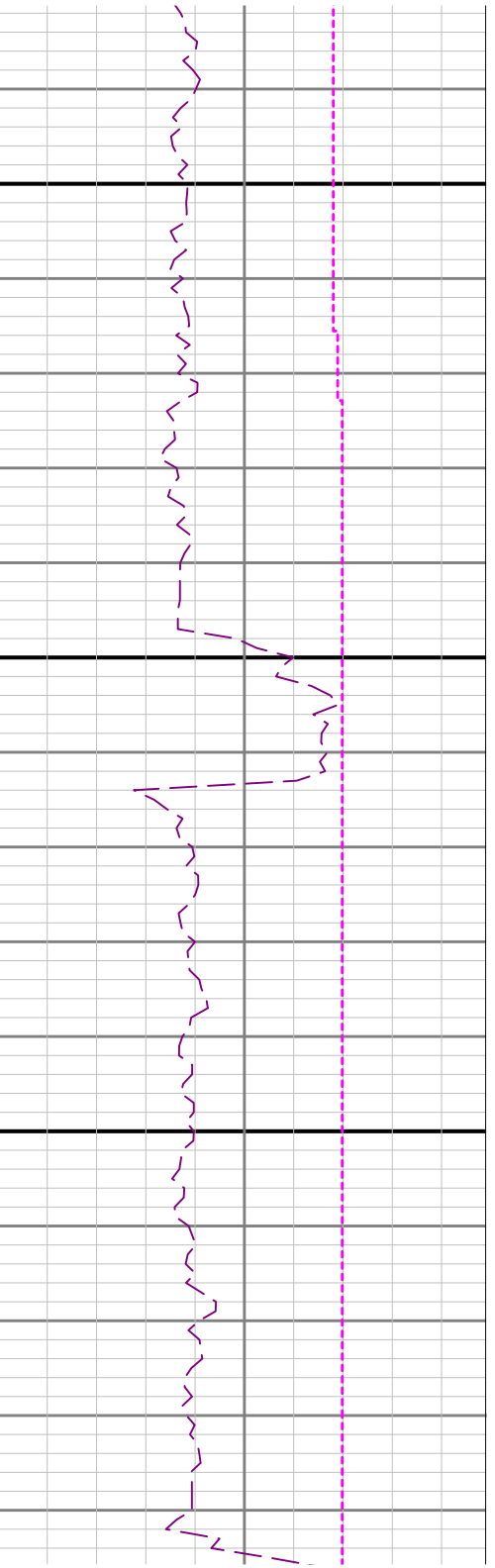


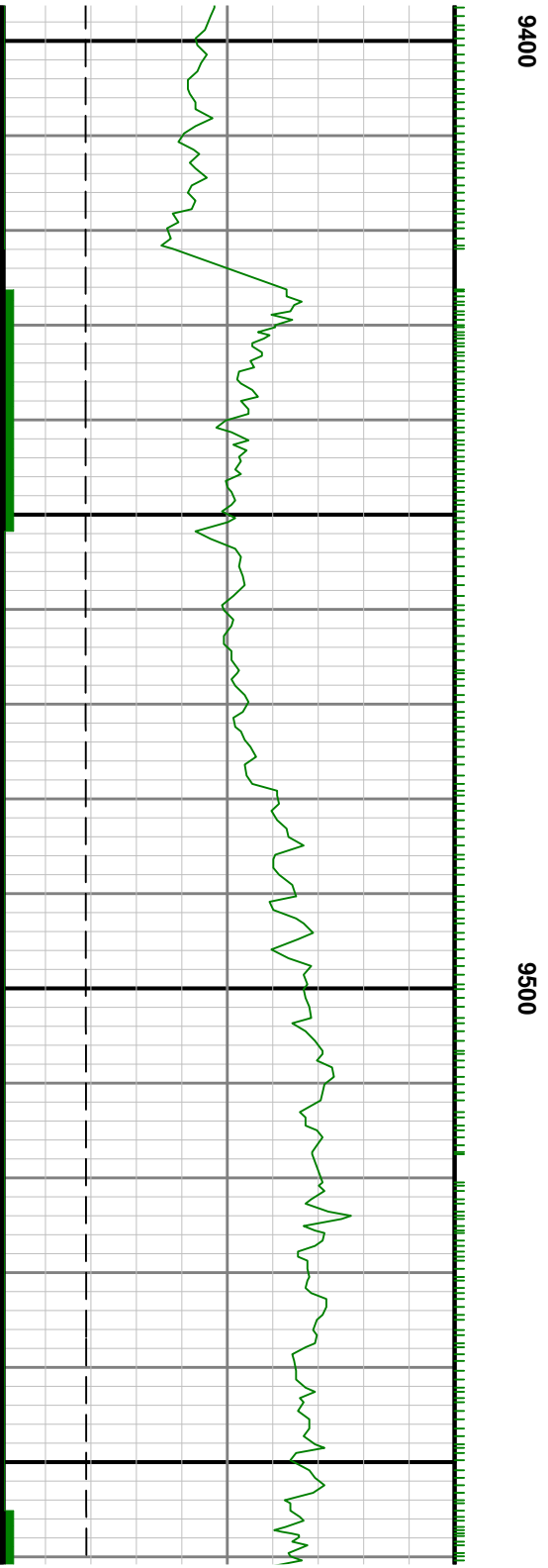
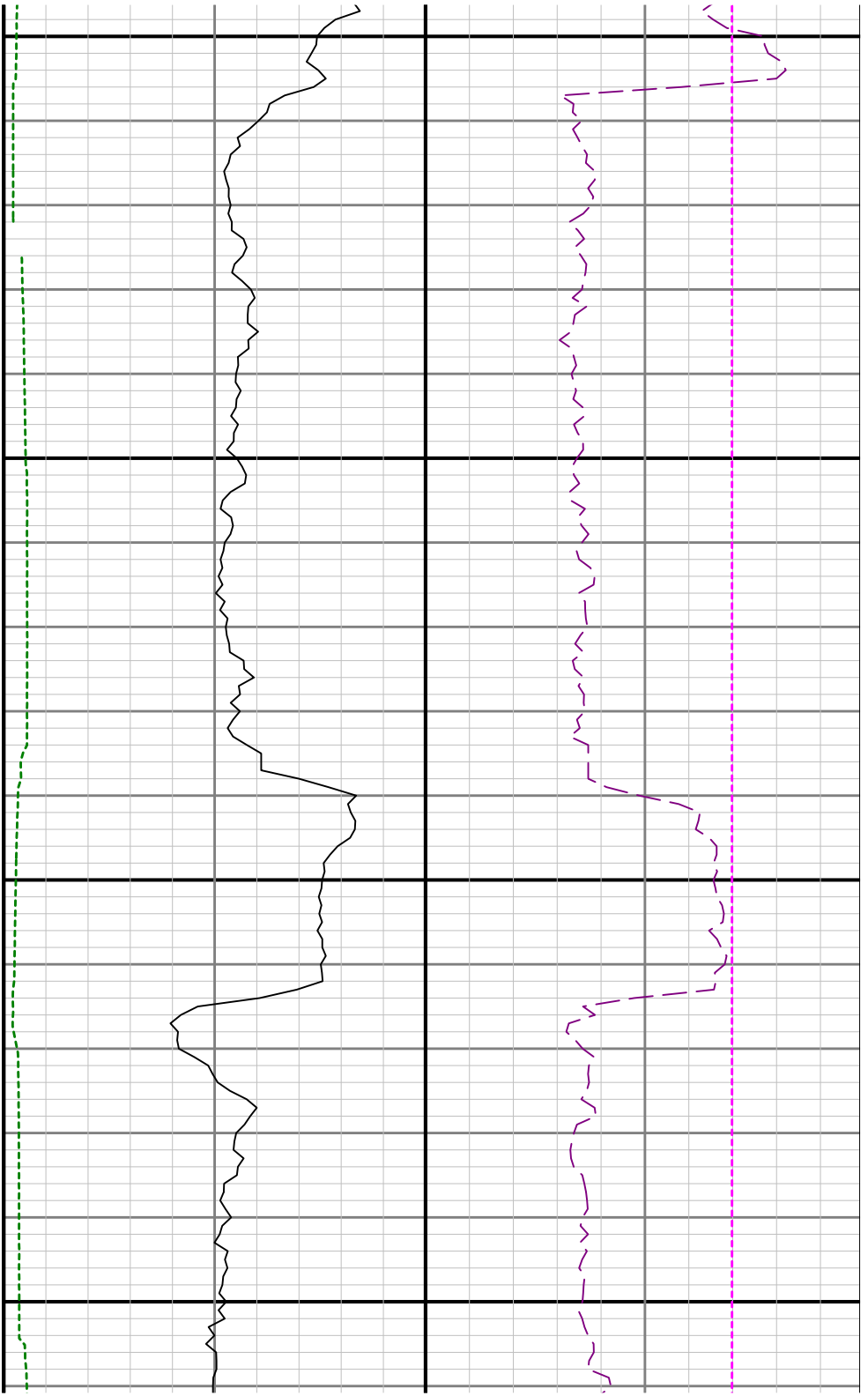


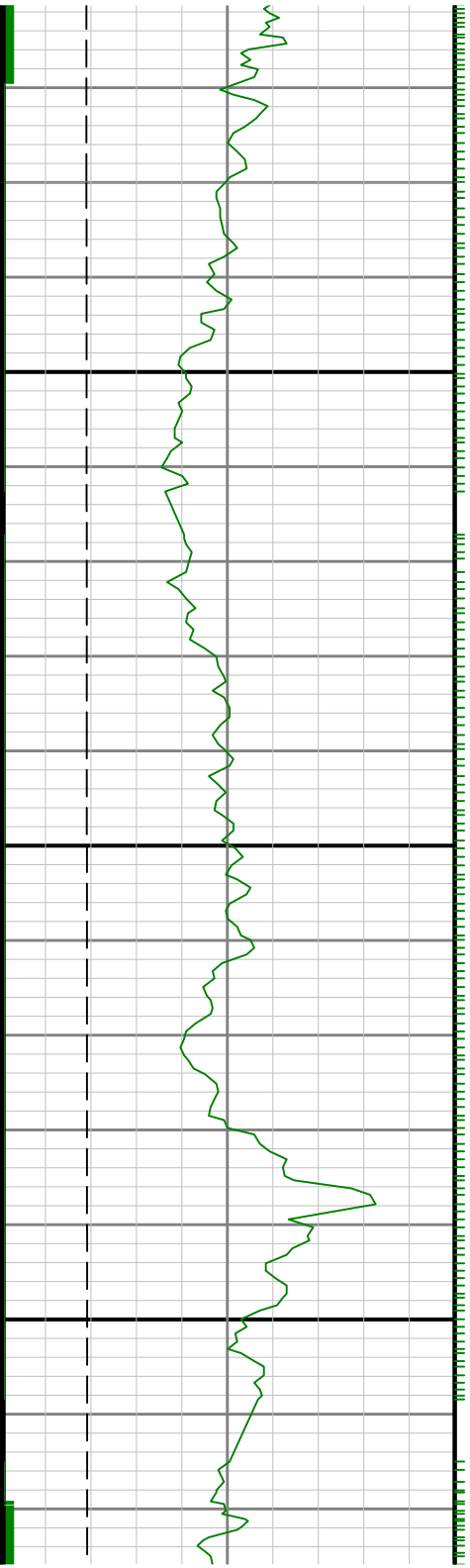




9300

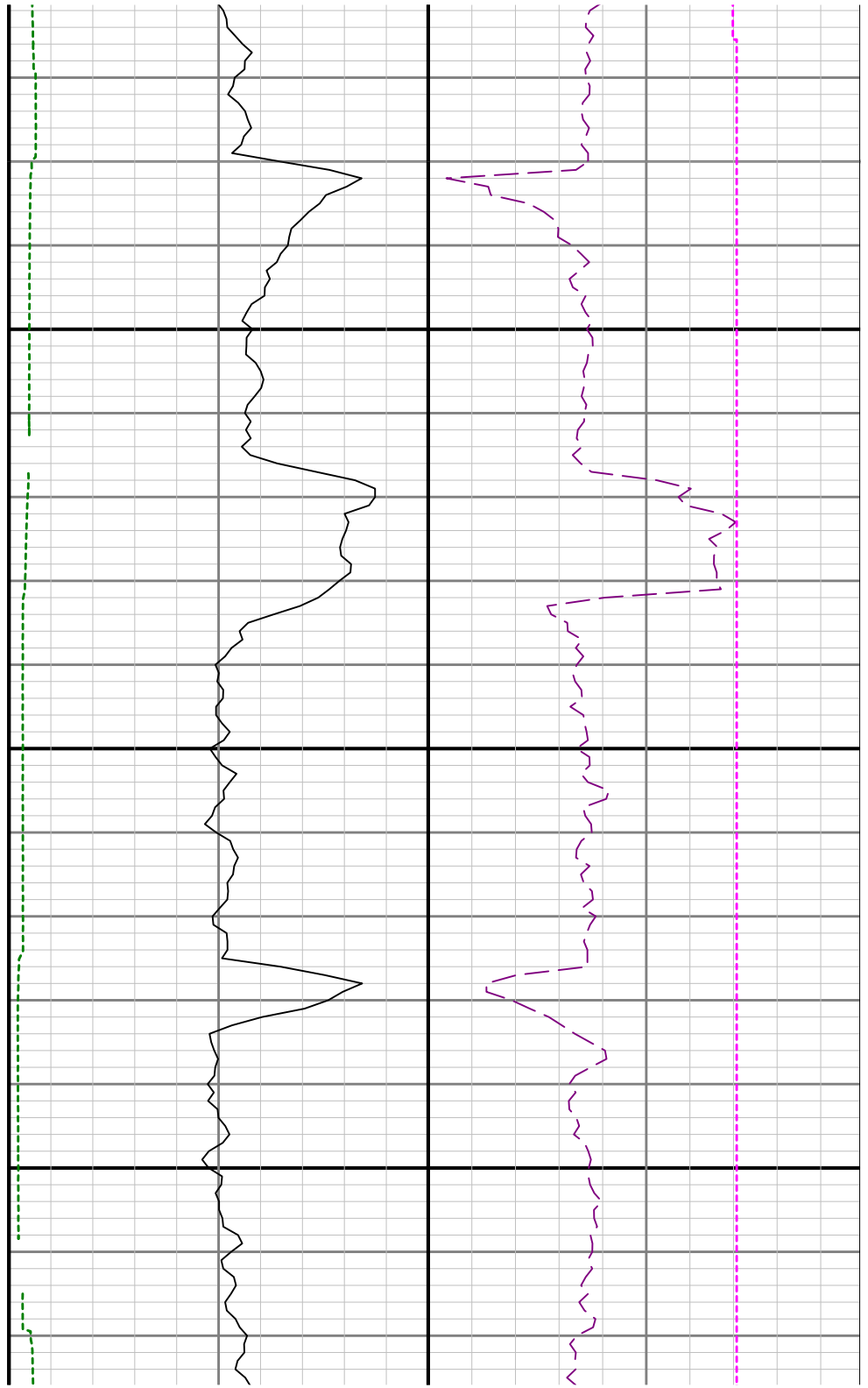


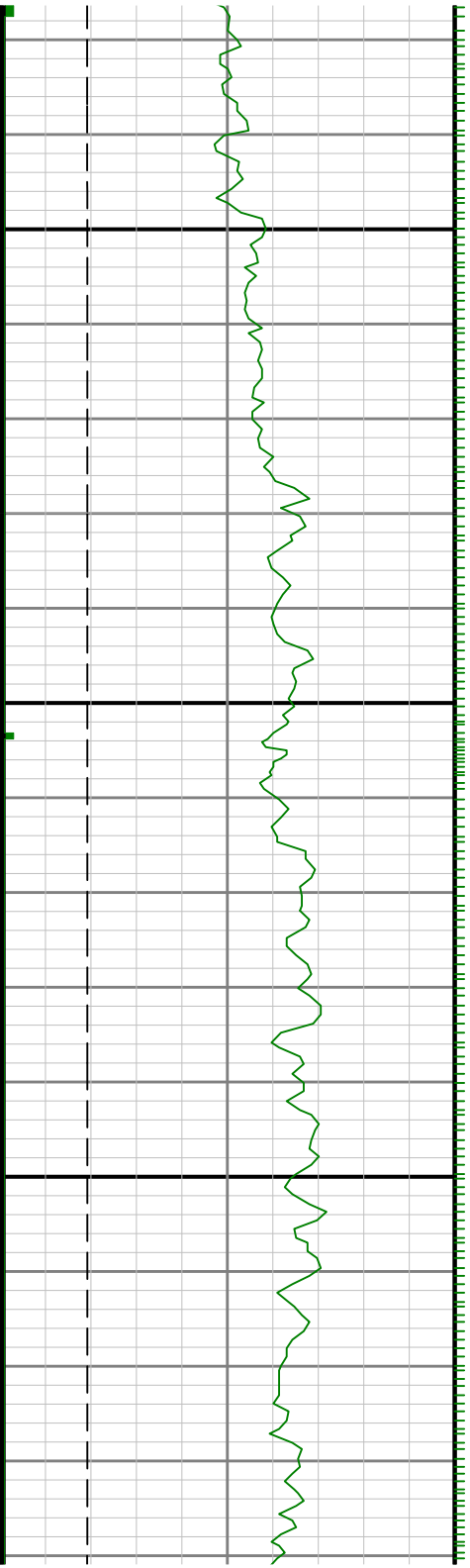




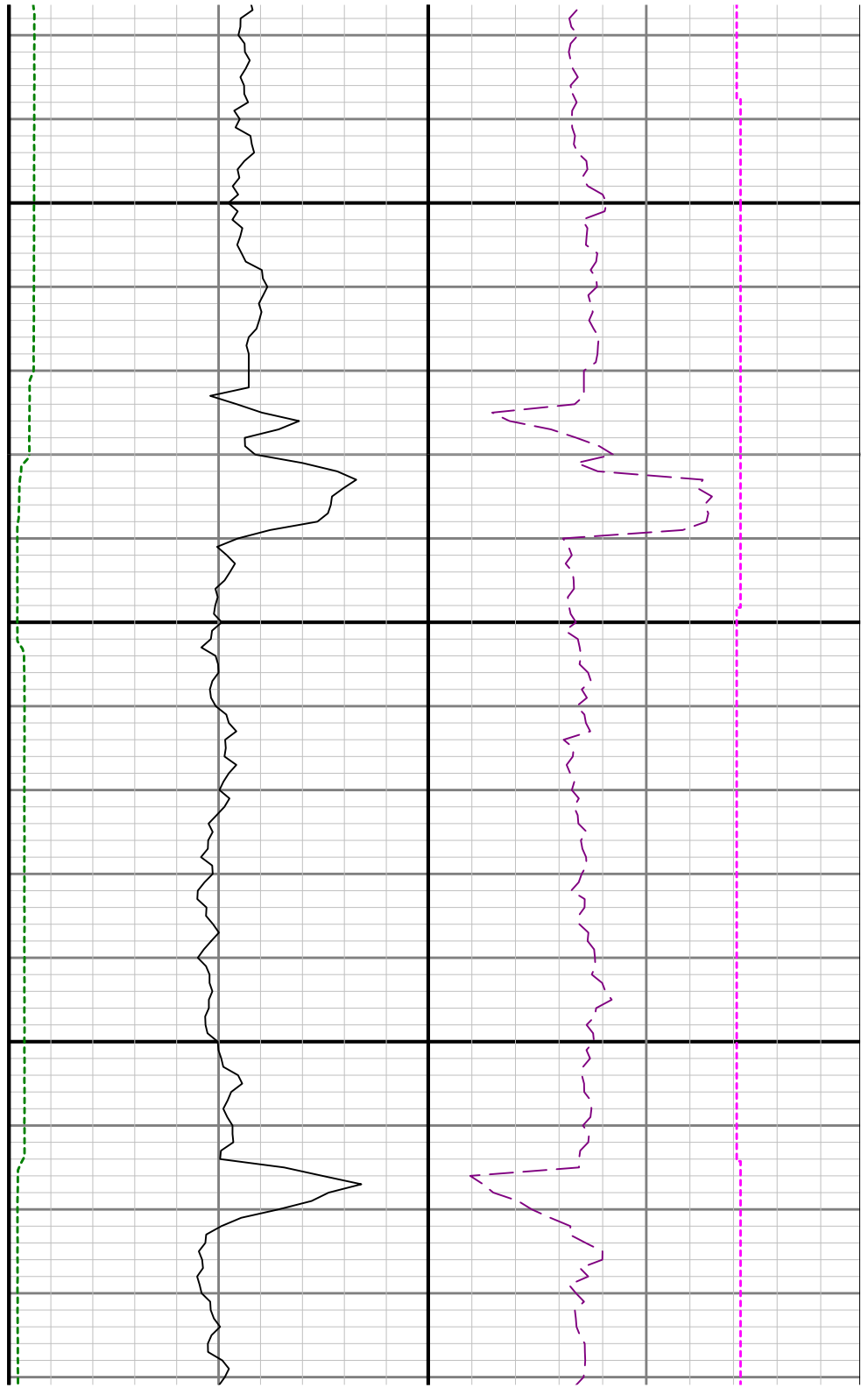
9600

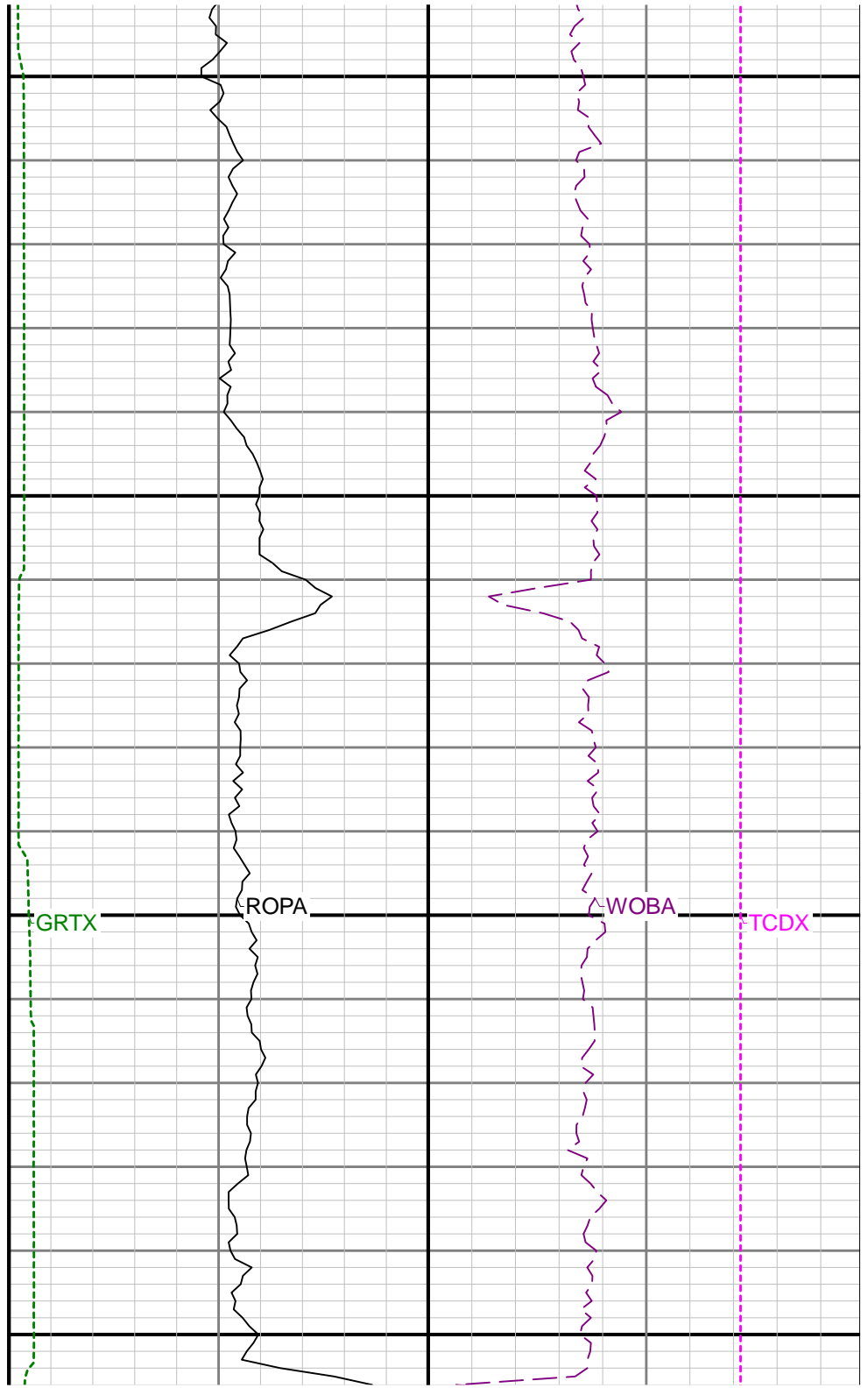
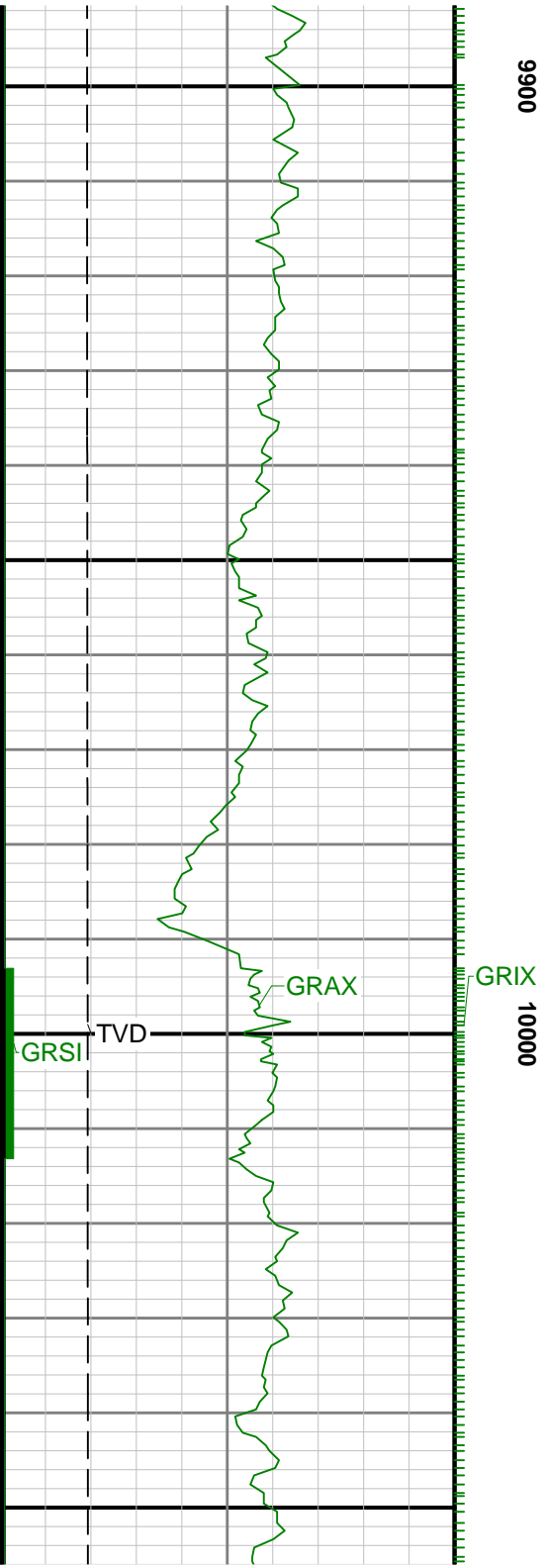
9700

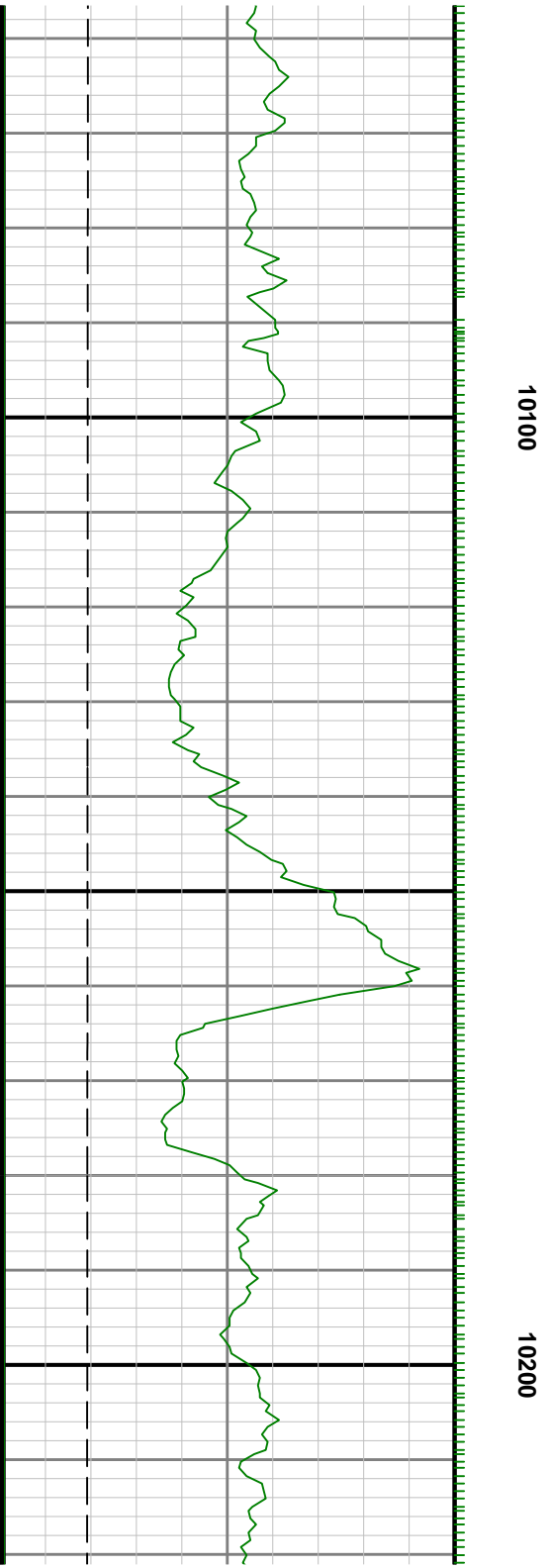


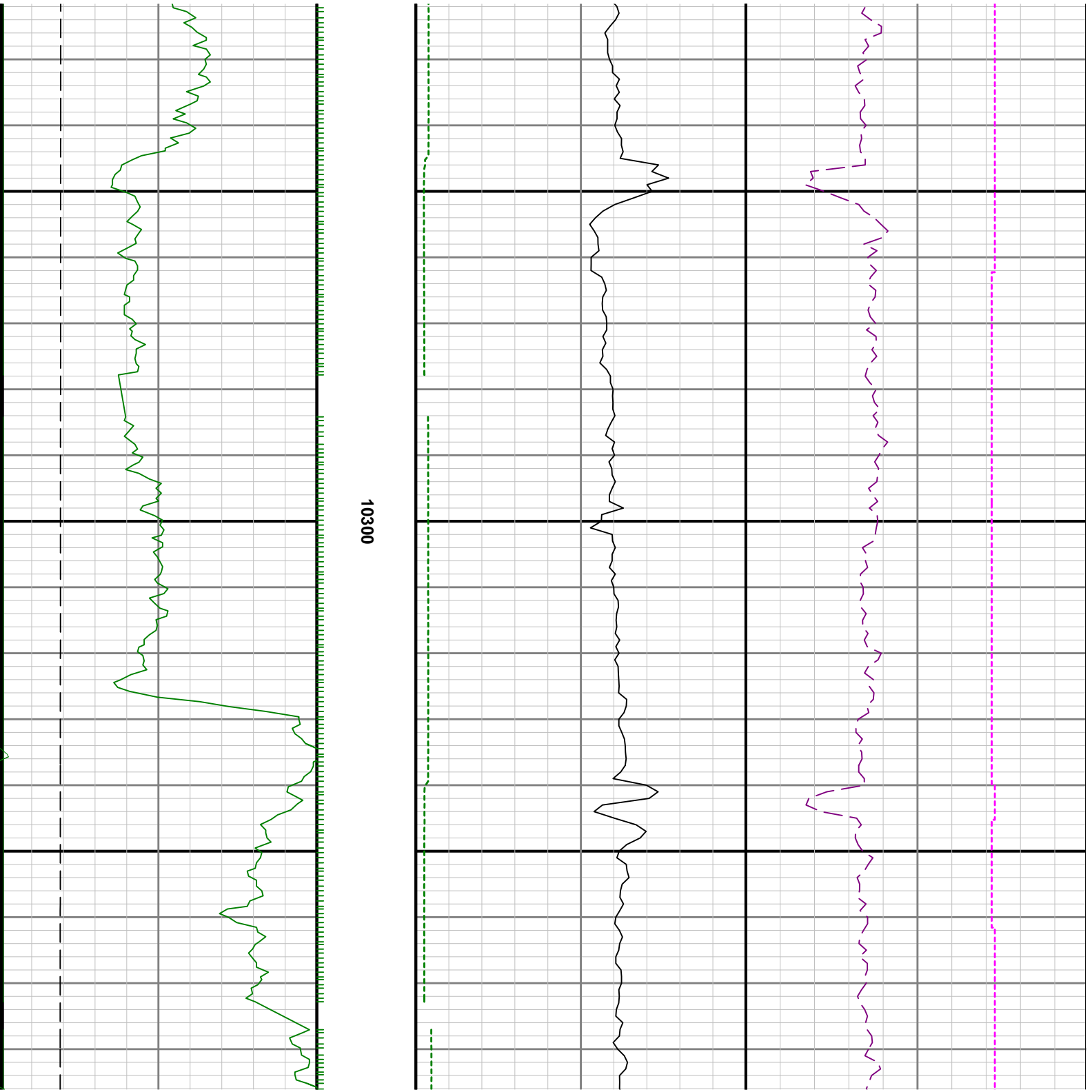


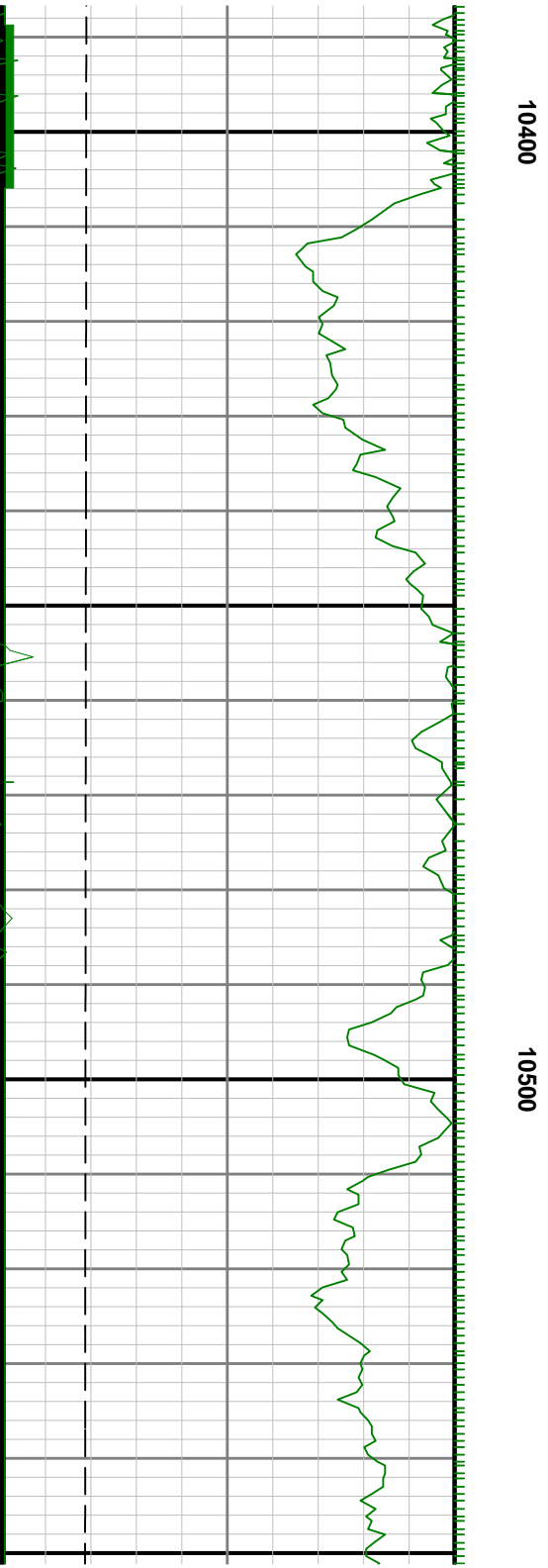
0086

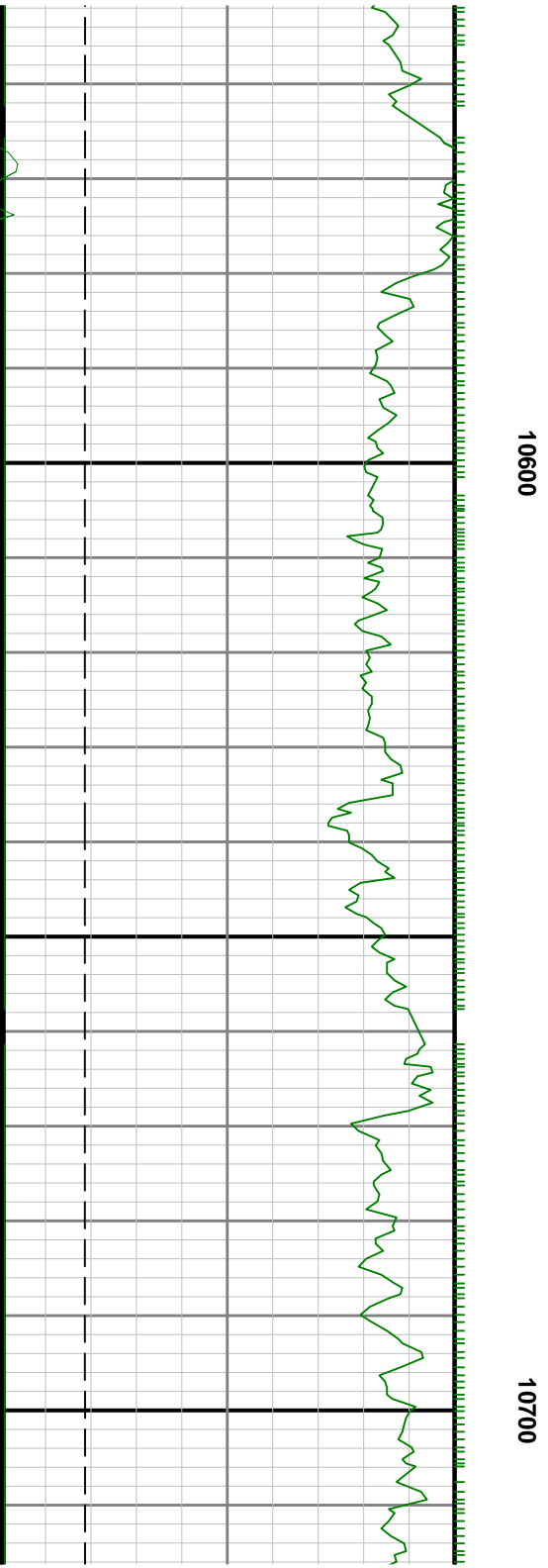
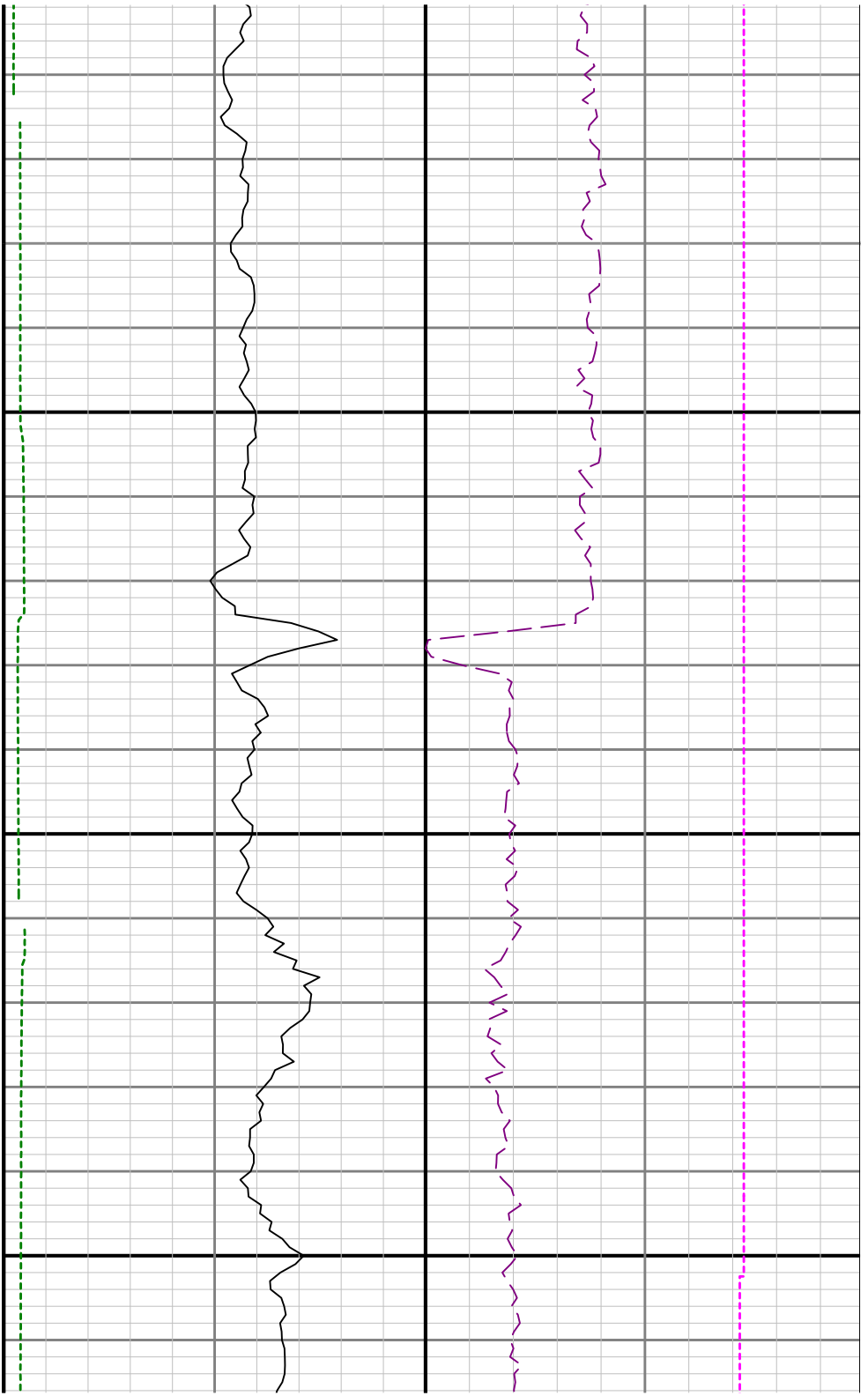


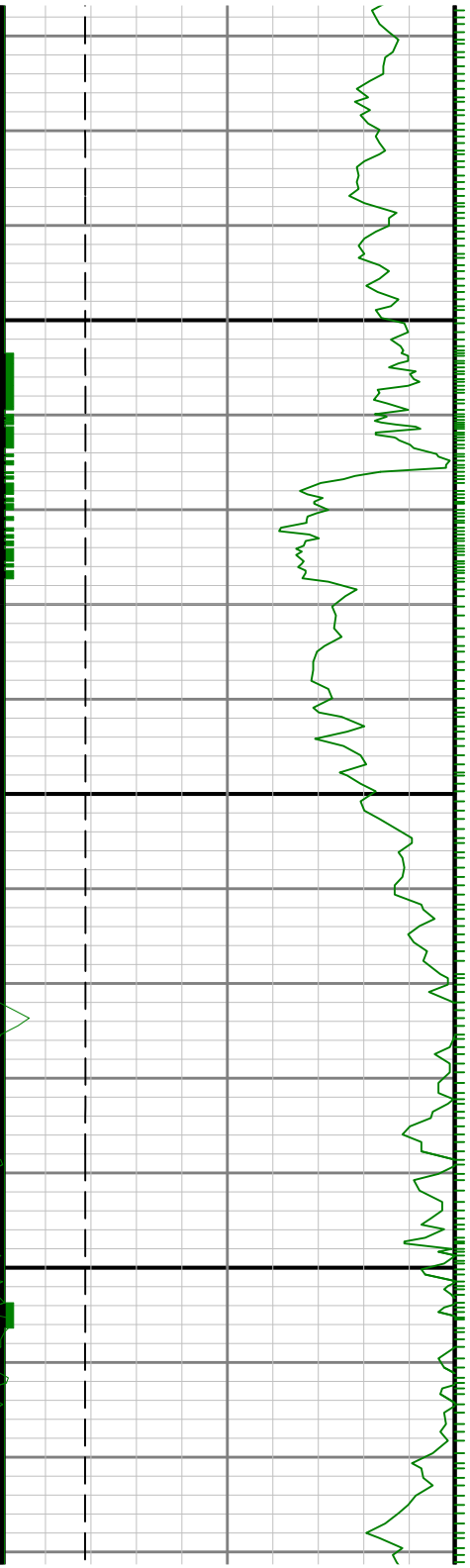






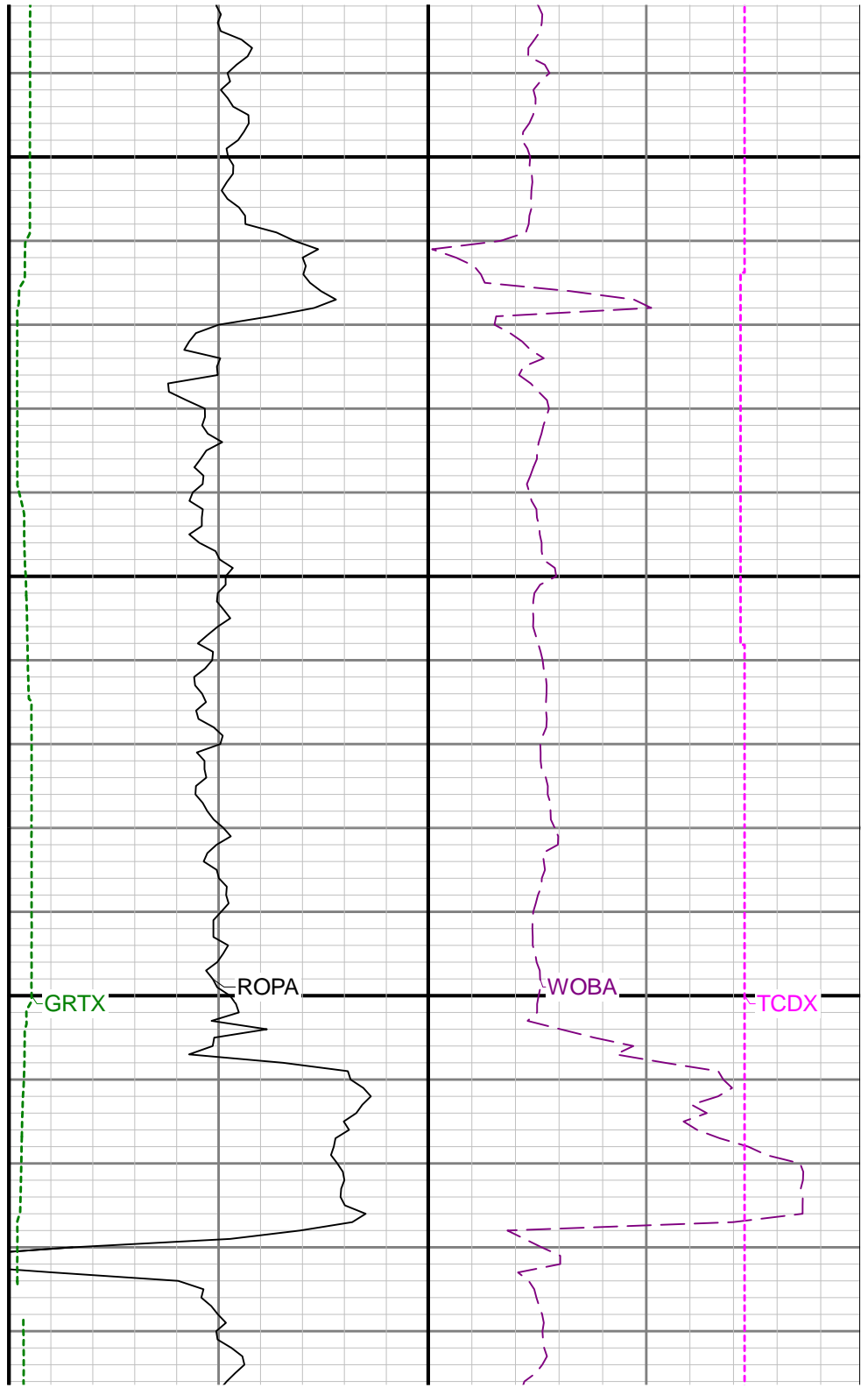
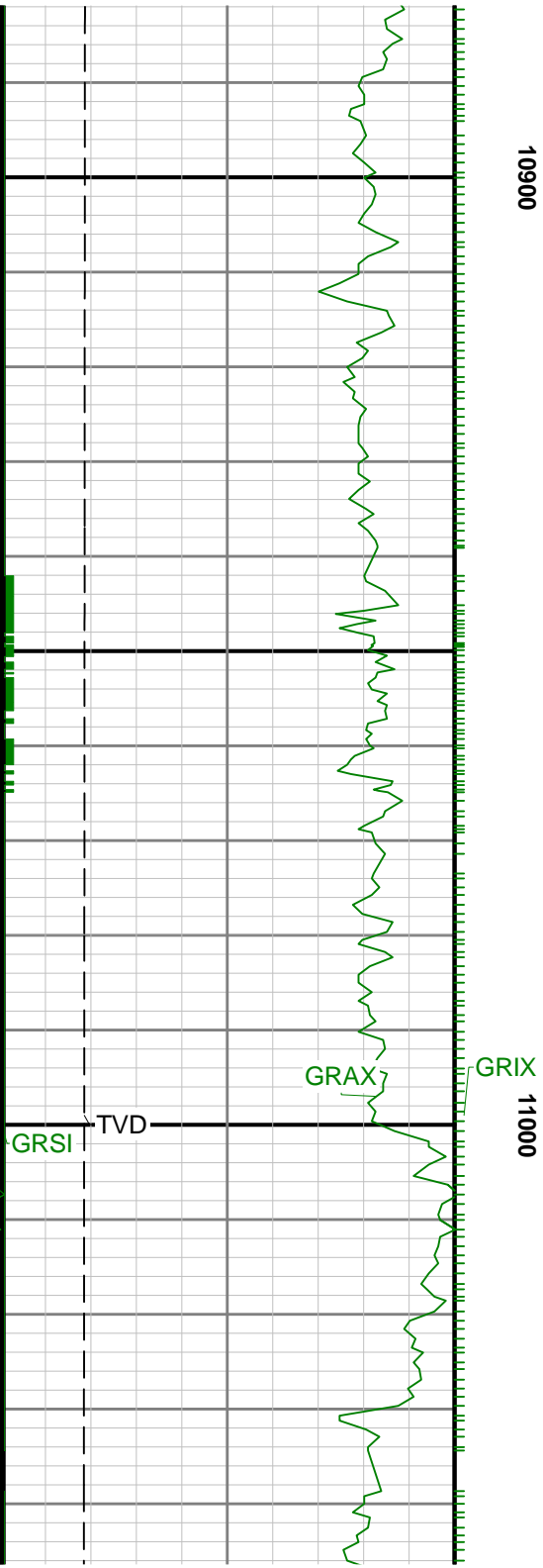


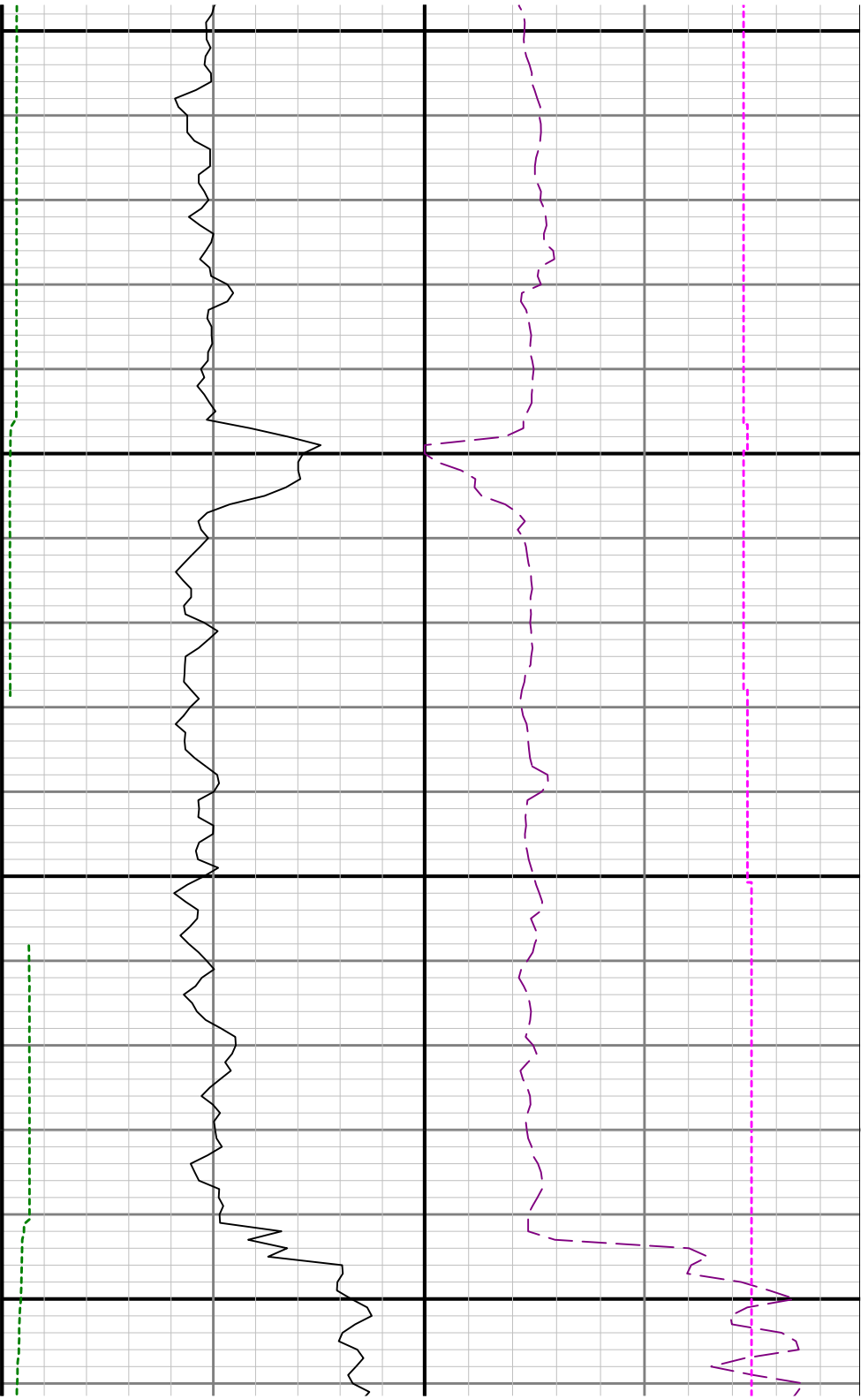




10800

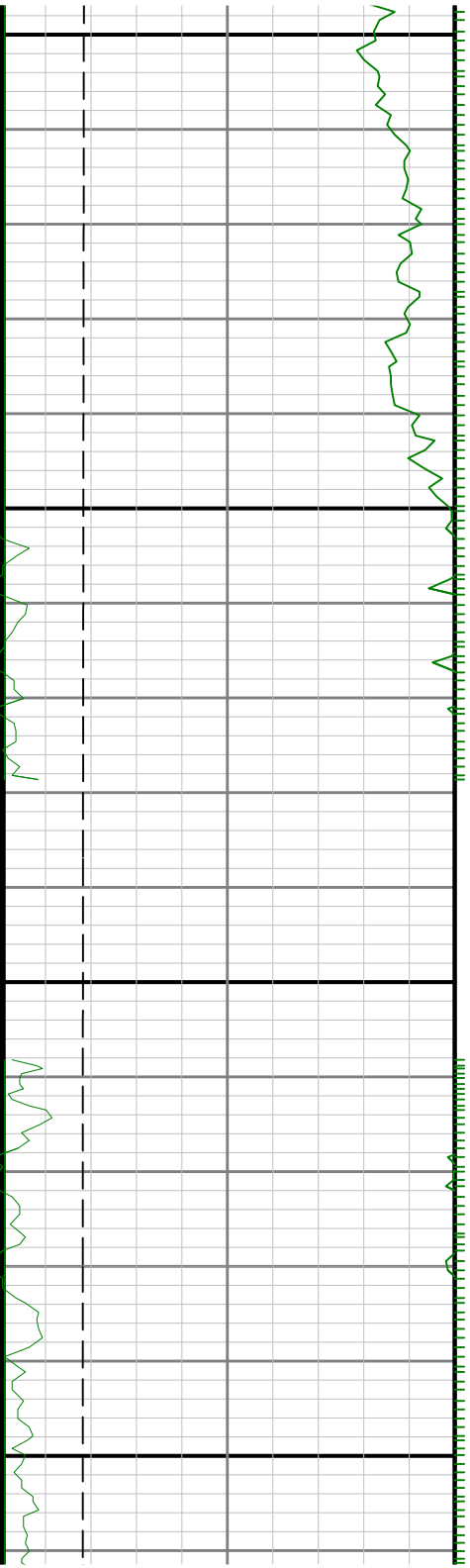


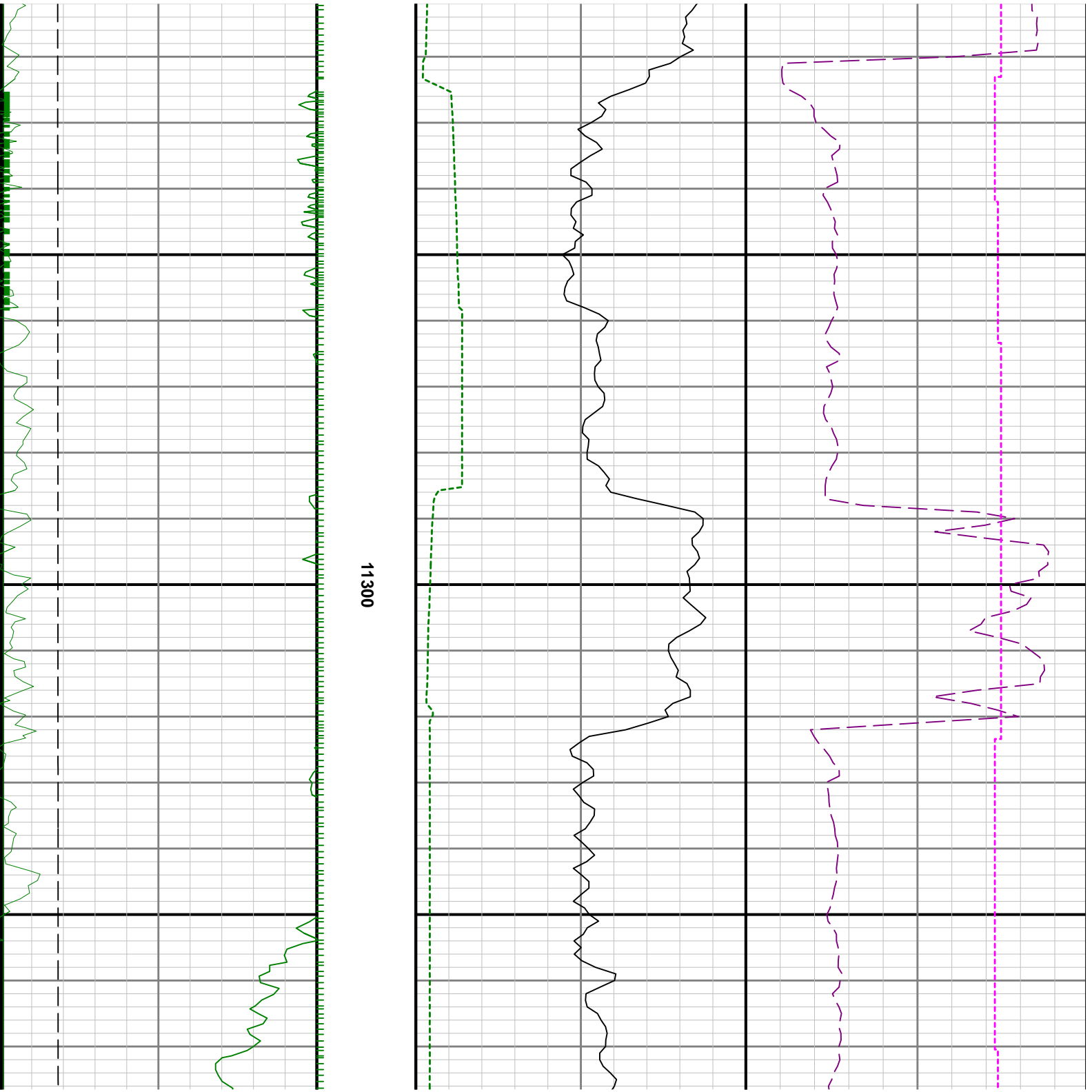


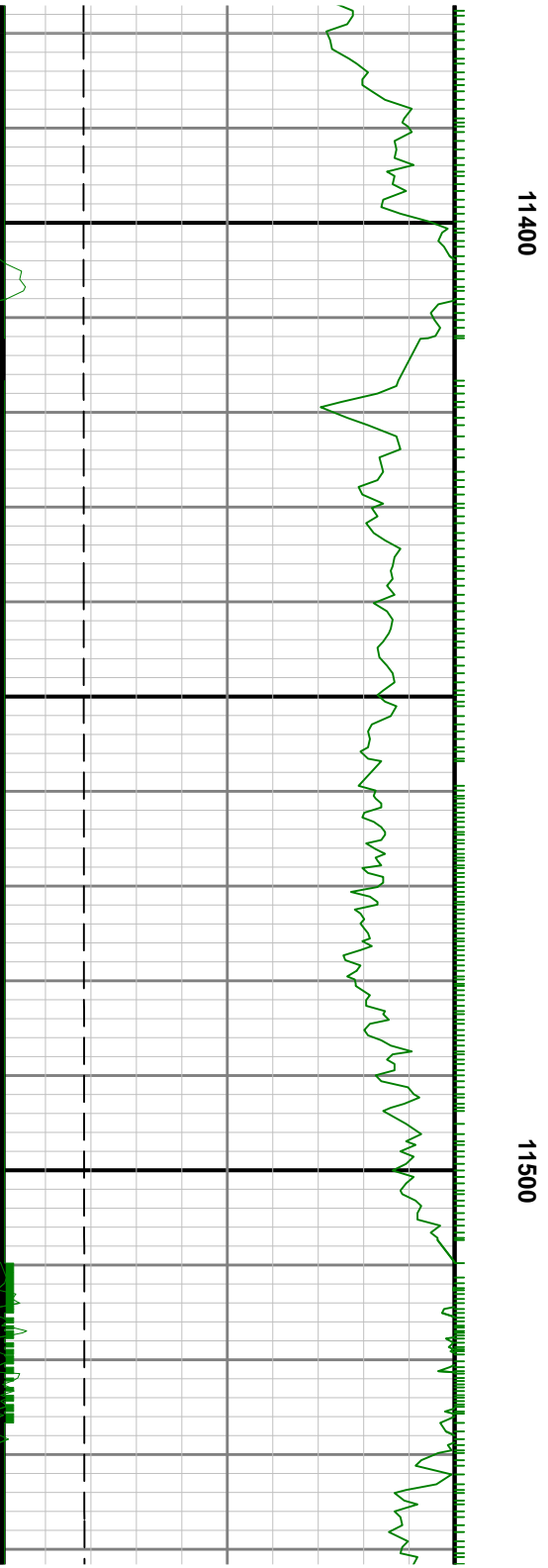


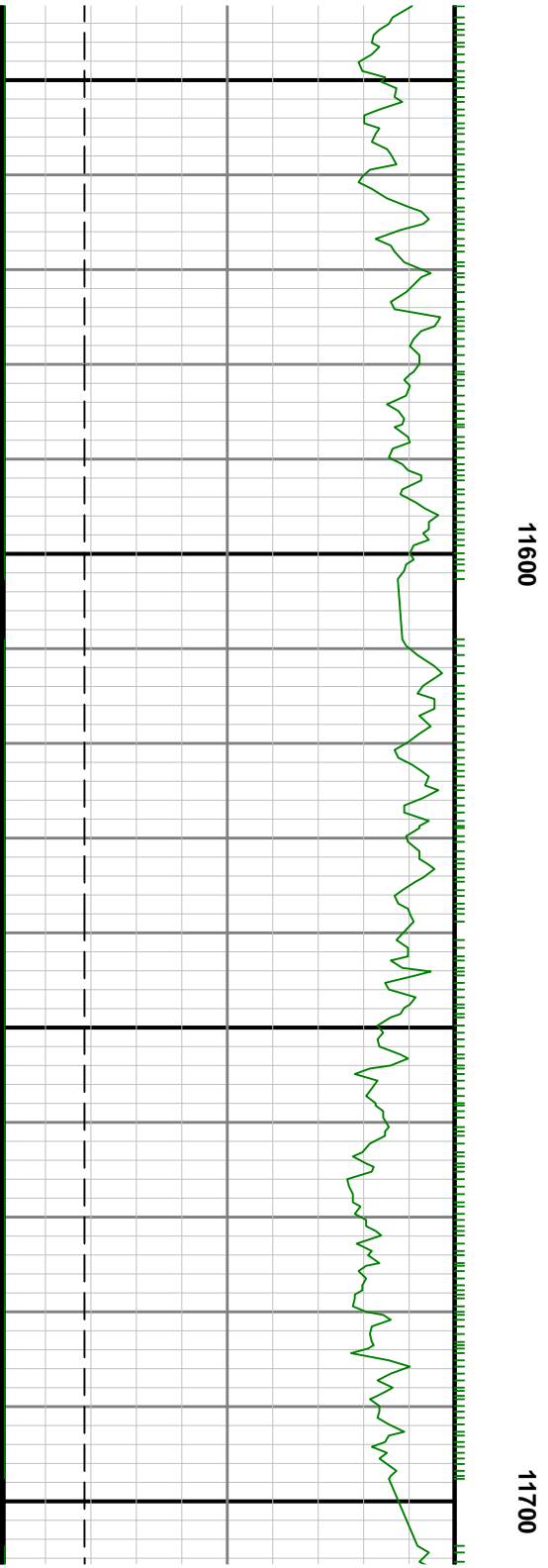
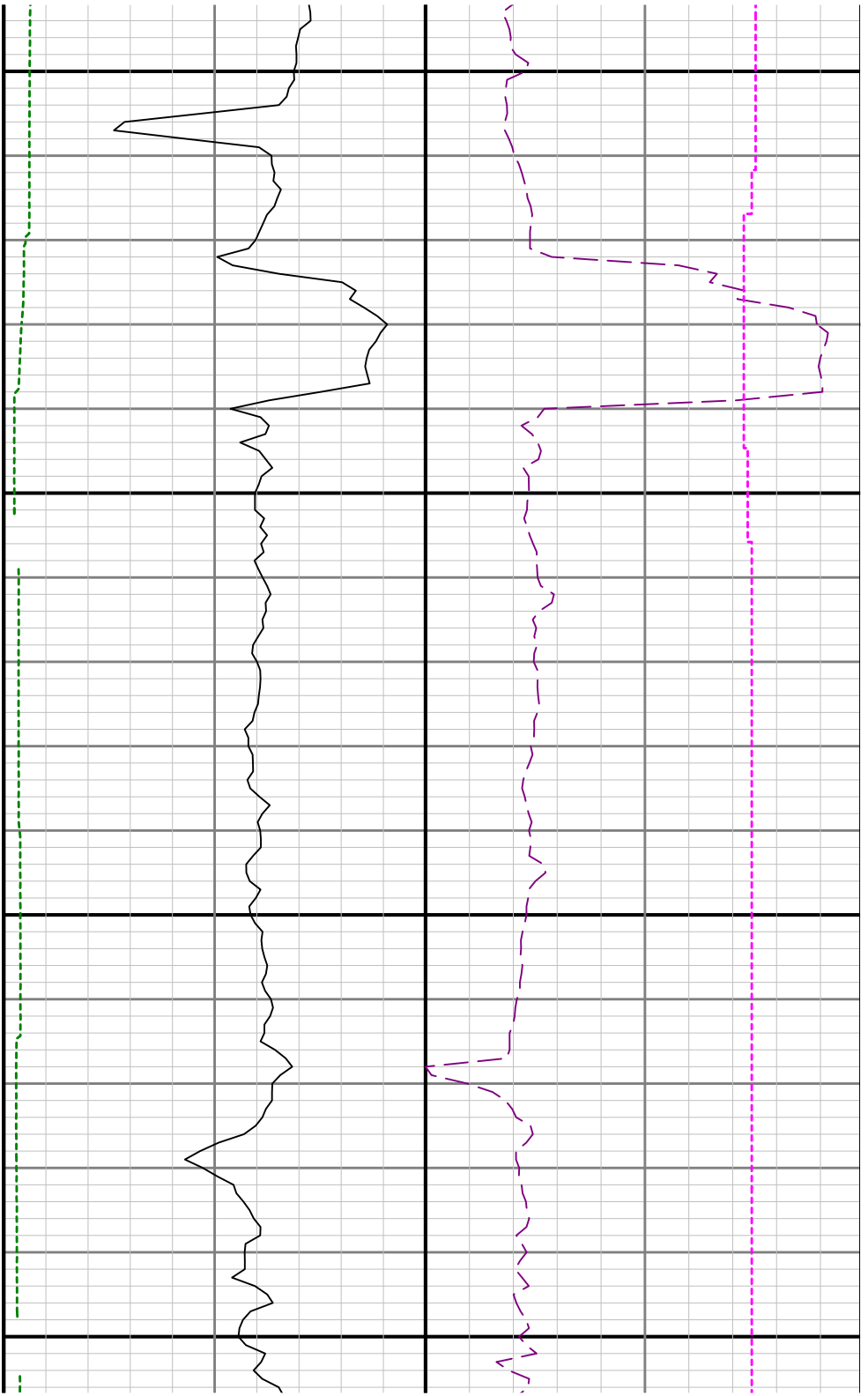
11100

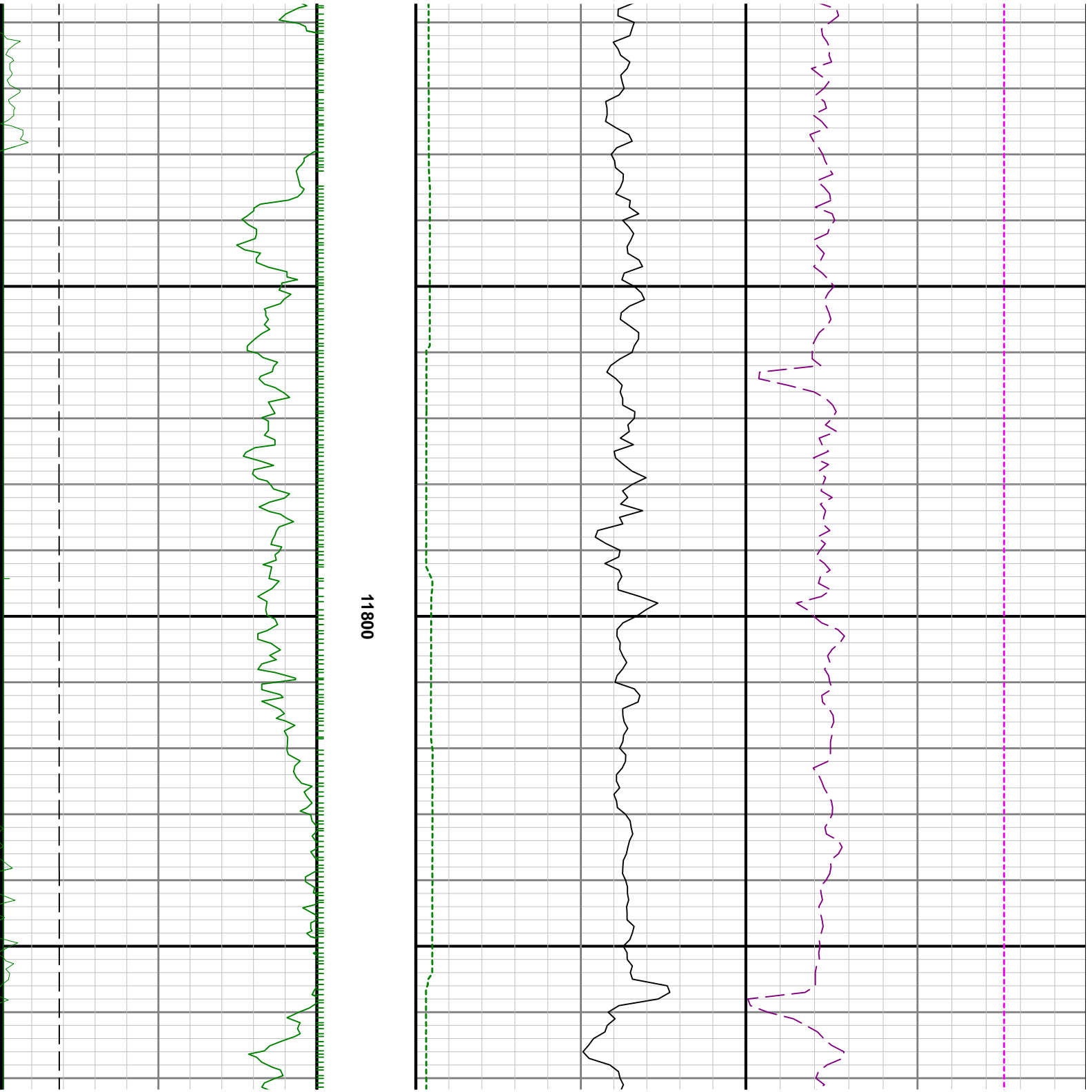
11200

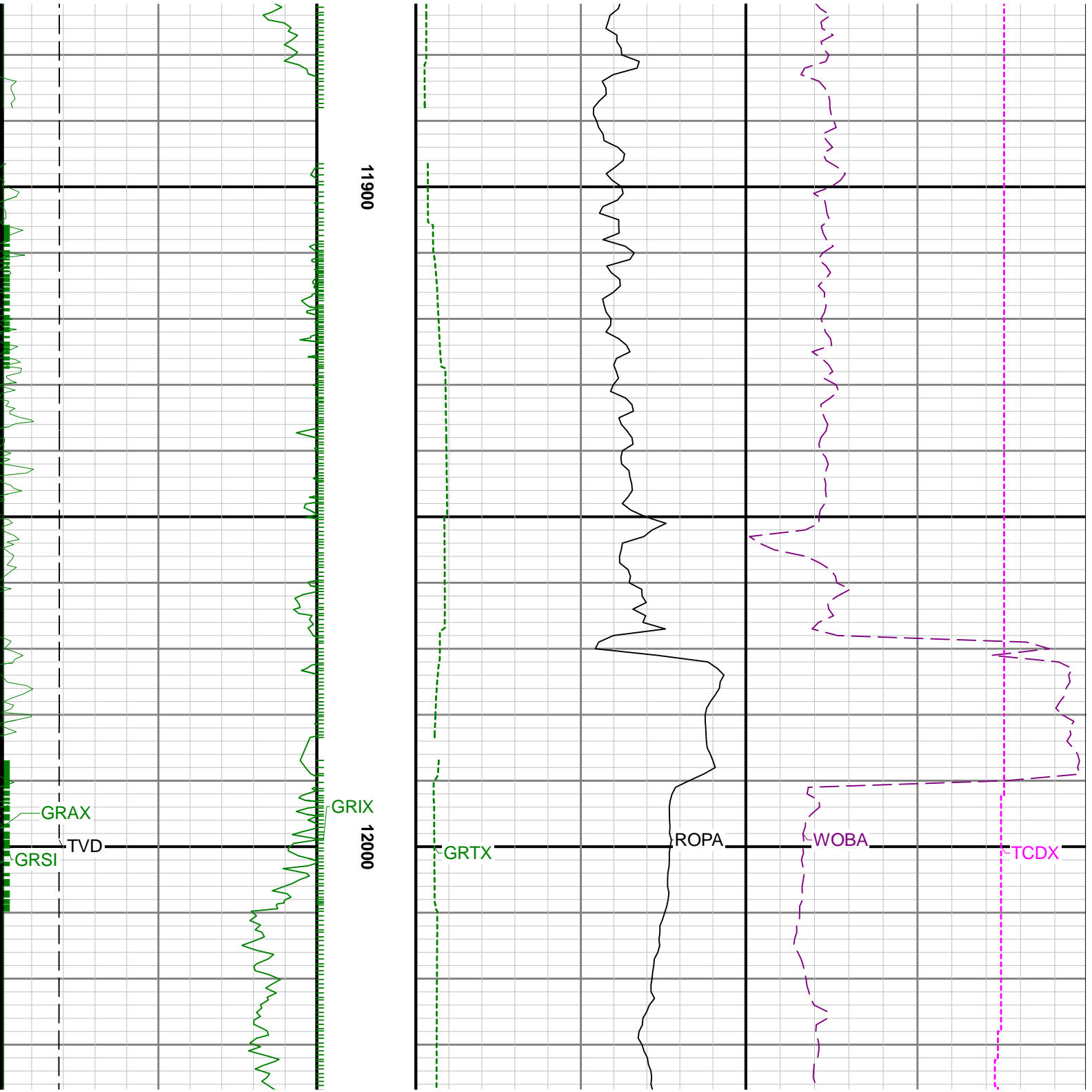


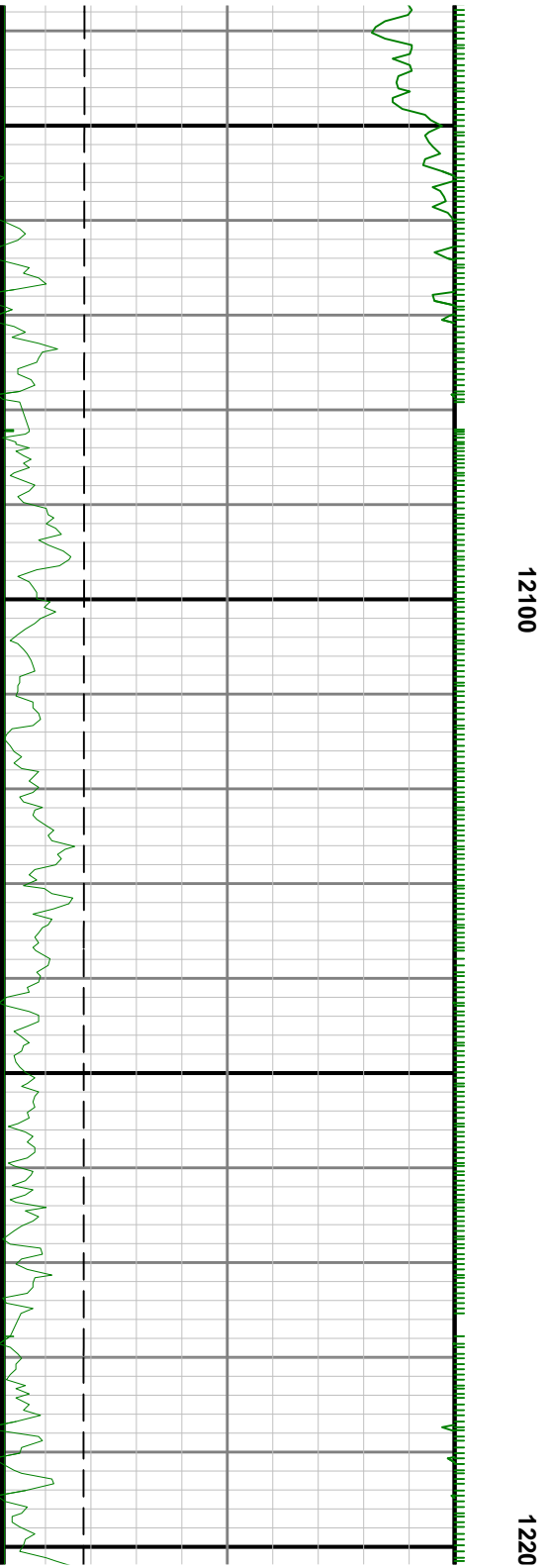
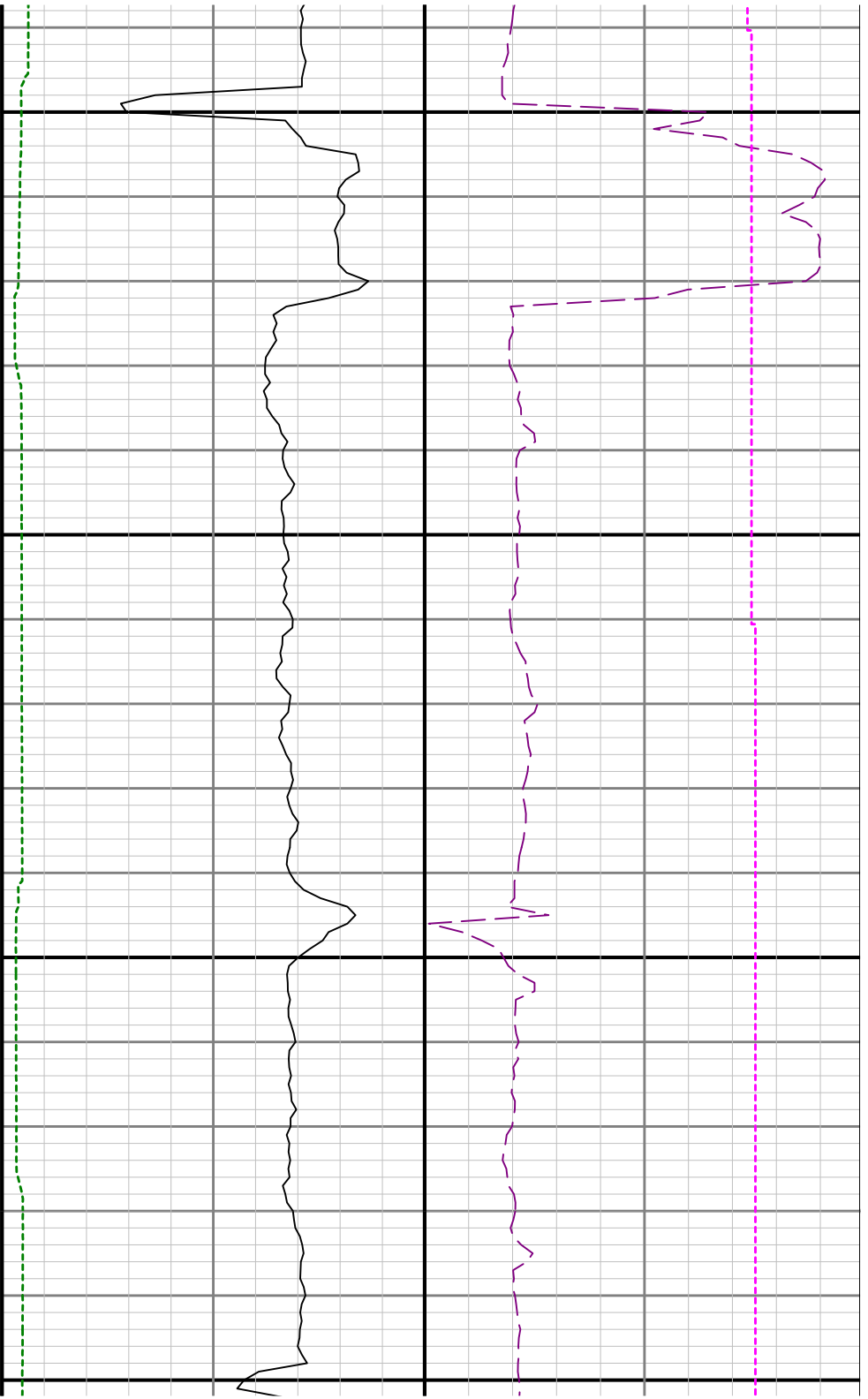


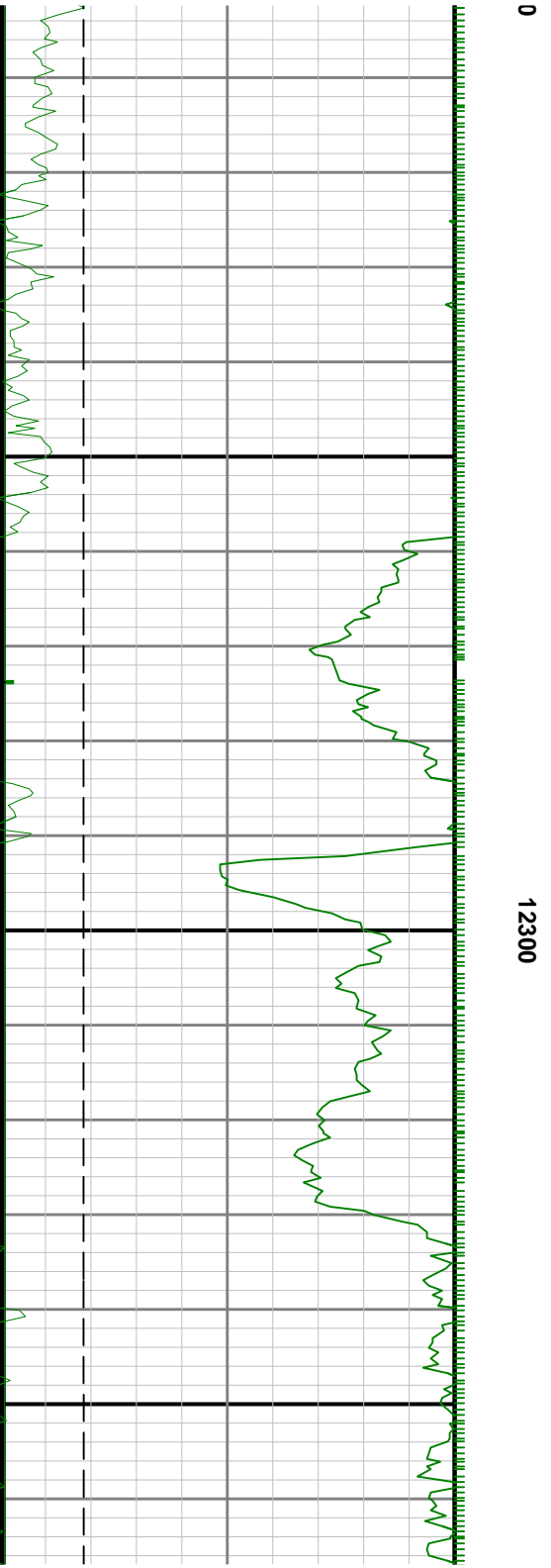


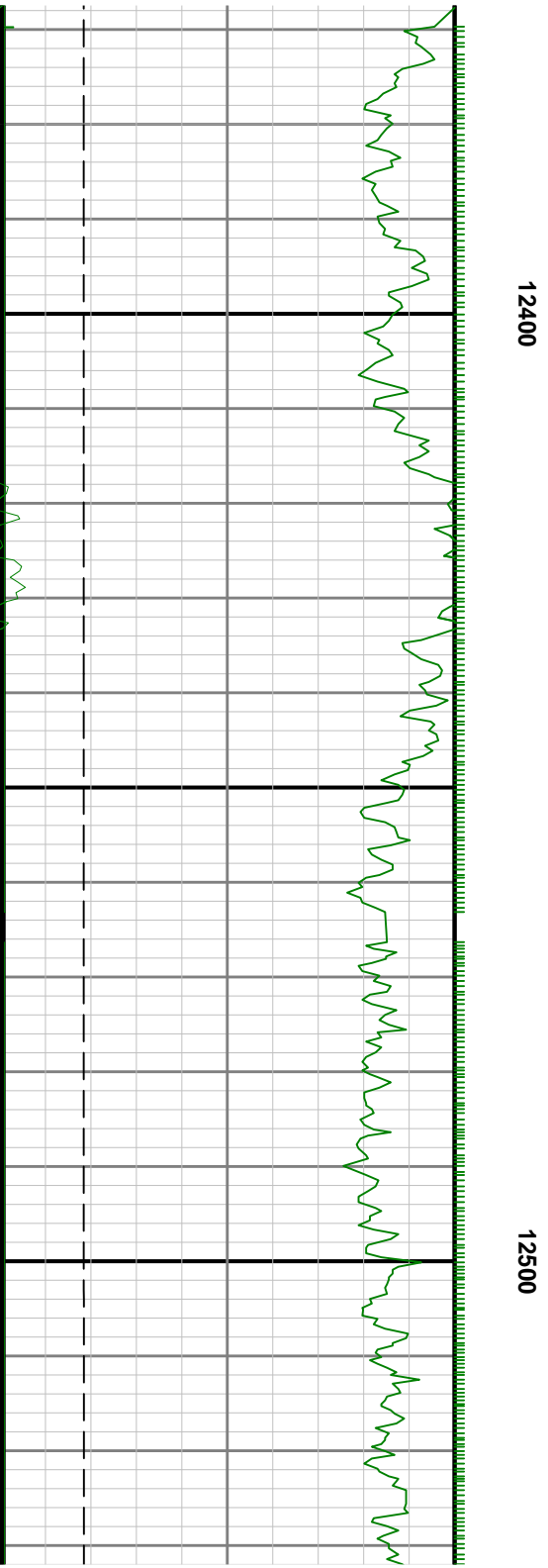
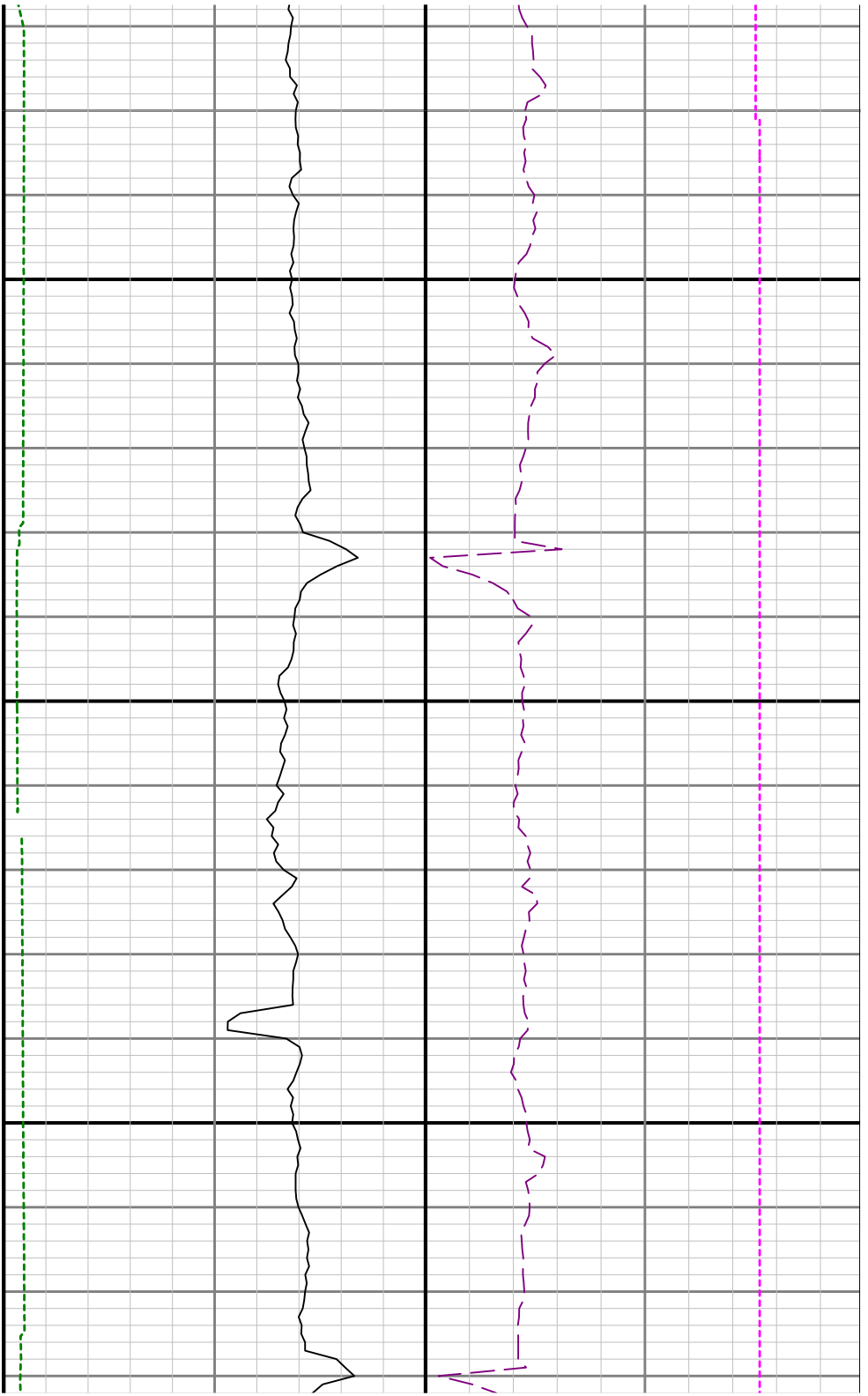














12600

