

Realtime Log									
<div><div><div>BAKER HUGHES</div></div><div></div></div>				Natural Formation Evaluation Gamma Ray					
Scale:				Company: Anadarko					
1:240				Well: Hunziker 28N-28HZ					
Measured Depth				Field:		Weld County			
				Region: RMA		Country: United States			
Status:				Surface Location:				Other Services:	
Final Print				Latitude: 40 ° 6' 11.628" N				Directional VSS	
API Number: 05123408450000				Longitude: 104 ° 53' 32.597" W					
				Section: 28		TWN: 2N		Range: 67W	
Permanent Datum (P.D.): Mean Sea Level				Elevation: 0.00 ft.		Elevations: N/A			
Log Measured From: Rig Floor				20.00 ft.		Above P.D.			
Depth Reference: Driller's Depth						KB: 5069.00 ft.		GL: 5049.00 ft.	
Interval Logged				Dates		Magnetic Field Reference			
Top: 7020.0 ft.		Date From: 14 May 15		Dip Angle: 66.73 °		Azi Reference North: True			
Bottom: 12722.0 ft.		Date To: 20 May 15		Total		Mag to Reference			
		Spud Date: 14 May 15		Field Strength: 52702.1 nT		North Correction: 8.59 °			
Borehole Record									
Hole Size	From	To	Size	Weight	From	To			
13.500 in.	Surface	1340.0 ft.	9.600 in.	36.00 lb/ft	Surface	1330.0 ft.			
8.750 in.	1340.0 ft.	8030.0 ft.	7.000 in.	36.00 lb/ft	Surface	8020.0 ft.			
6.125 in.	8030.0 ft.	12722.0 ft.							
Casing Record									
Mud Record									
Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)			
Water Base	Surface	12722.0 ft.	13.500 in.	1340.0 ft.	0.0 ° / 0.0 °	0.4 ° / 73.6 °			
			8.750 in.	6690.0 ft.	0.1 ° / 116.6 °	89.8 ° / 359.8 °			
			6.125 in.	4692.0 ft.	92.7 ° / 359.3 °	88.1 ° / 359.9 °			
					/	/			
					/	/			
					/	/			
Acquisition System									
Software Version	2.20U4	Rig / Contractor: Precision 460				Other			
Advantage	6.4.1.34	Job No: 7056318				/ Advance Drilling			
PATS		District / Unit: RMD				/ D&E			

INTEQ does not guarantee the accuracy or correctness of interpretations provided in or from this log. Since all interpretations are opinions based on measurements, INTEQ shall under no circumstances be responsible for consequential damages or any other loss, costs, damages or expenses incurred or sustained in connection with the use of any such interpretations. INTEQ disclaims all expressed and implied warranties related to this service. INTEQ's liabilities and obligations shall be governed by INTEQ's Standard Terms and Conditions.

Log Run Summary															
LWD Run No.	BHA Run No.	Bit Run No.	Bit Size (in.)	Bit Type	Bit Gauge Length (in.)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time				Circ. Time
							Top	Bottom	From	To	Start		End		(hrs.)
							(ft.)	(ft.)	(ft.)	(ft.)					
1	1	1	8.750	PDC	2.000	Mud Motor	7028.0	7990.0	1340.0	8030.0	14 May 15 08:20	16 May 15 13:20	18 May 15 12:50	20 May 15 11:18	33.26
2	2	2	6.125	PDC	4.000	Mud Motor	7990.0	8159.0	8030.0	8207.0	17 May 15 16:35	18 May 15 12:50	19 May 15 17:45	20 May 15 11:18	11.18
3	3	3	6.125	PDC	4.000	Mud Motor	8159.0	12672.0	8207.0	12722.0	18 May 15 14:55	19 May 15 17:45	20 May 15 11:18	20 May 15 11:18	26

Crew									
Name		Arrive	Depart	Name		Arrive	Depart	Name	
		Wellsite	Wellsite			Wellsite	Wellsite		
Adewale Adedeji		14 May 15	20 May 15					Bryan Severson	

Mud Properties Record

Date / Time		LWD Run No.	Measured Depth (ft.)	Mud Type	Density (sg)	Viscosity (cp)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
14 May 15	18:00	1	2433.0	Water-Based	8.5	27	9.5	N/A	N/A	Active Pits	1900	N/A
15 May 15	19:00	1	7443.0	Water-Based	10.0	50	9.5	4.6	2/88	Active Pits	2200	N/A
16 May 15	19:00	1	8030.0	Water-Based	10.1	55	9.0	5.0	3/86	Active Pits	2300	N/A
17 May 15	19:00	2	8030.0	Water-Based	9.6	42	8.7	5.2	2/90	Active Pits	2300	N/A
18 May 15	19:00	2	8207.0	Water-Based	9.6	48	8.5	5.4	3/89	Active Pits	2400	N/A
19 May 15	19:00	3	12253.0	Water-Based	9.6	50	9.5	3.8	4/88	Active Pits	2200	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft. avg.	API
GRIX	Gamma Ray Density	Points
ROPA	Rate of Penetration, 3.0 ft. avg.	ft/hr
TCDX	Downhole Temperature	deg F
TVD	True Vertical Depth	ft.
WOBA	Surface Weight On Bit, 1.0 ft. avg.	klbf

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	10307183	Directional	44.38	6.750	3.250
1	SRIG	ZSGM5015	Gamma	41.01	6.750	3.250
2	DIR	11896567	Directional	53.14	4.750	2.750
2	SRIG	11991886	Gamma	49.72	4.750	2.750
3	DIR	12617359	Directional	53.03	4.750	2.750
3	SRIG	10392040	Gamma	49.60	4.750	2.750

Service and Tool Mnemonics

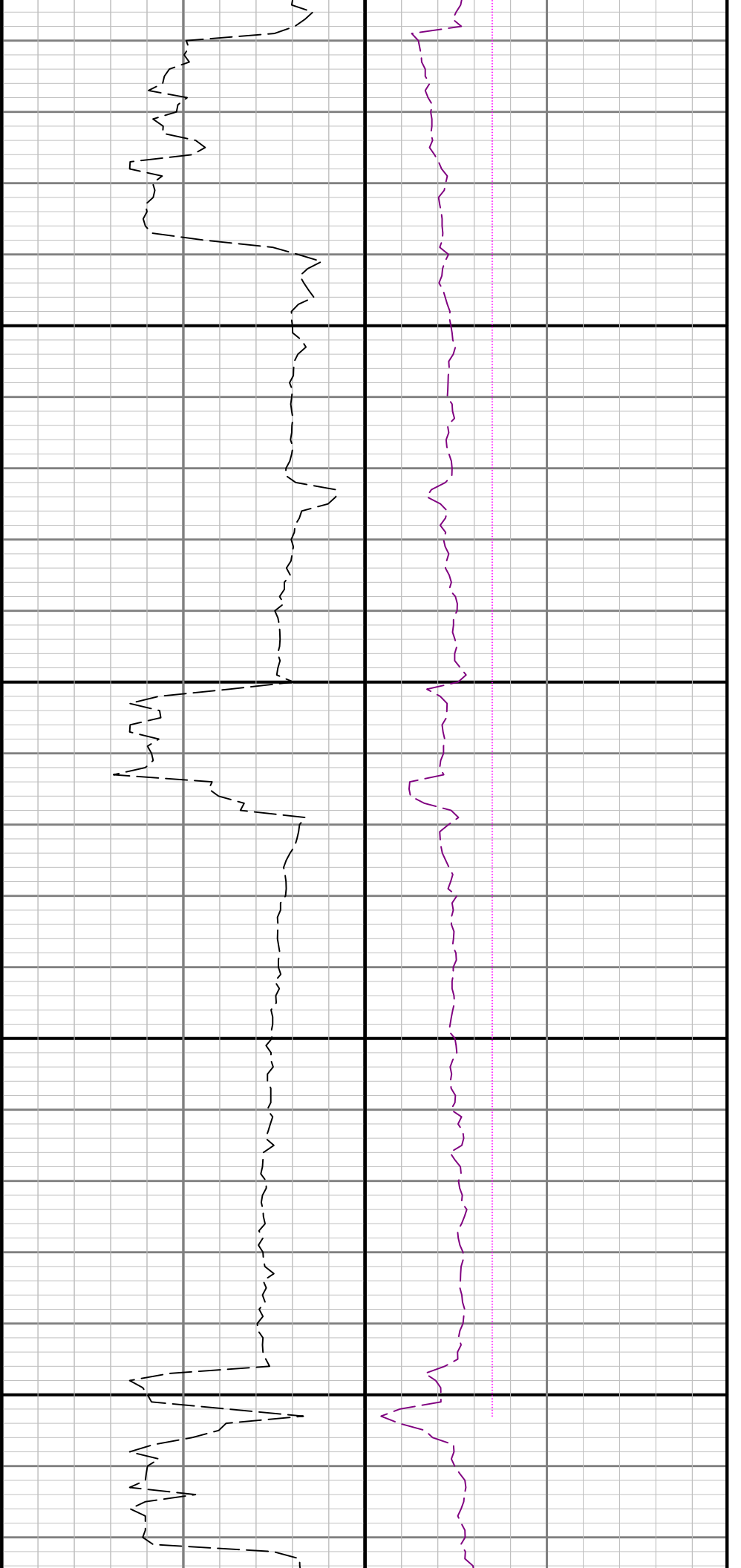
Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

Comments

1) Baker Hughes INTEQ run 1 utilized a 6.5 inch NaviGamma (Gamma Ray and Directional) tool behind a 8 3/4inch bit and steerable assembly from 1340 to 8030 ft. MD (1339 to 7478 ft. TVD).
2) Baker Hughes INTEQ run 2 & 3 utilized a 4.75 inch NaviGamma (Gamma Ray and Directional) tool behind a 6 1/8 inch bit and steerable assembly from 8030 to 12722 ft. MD (7478 to 7492 ft. TVD).

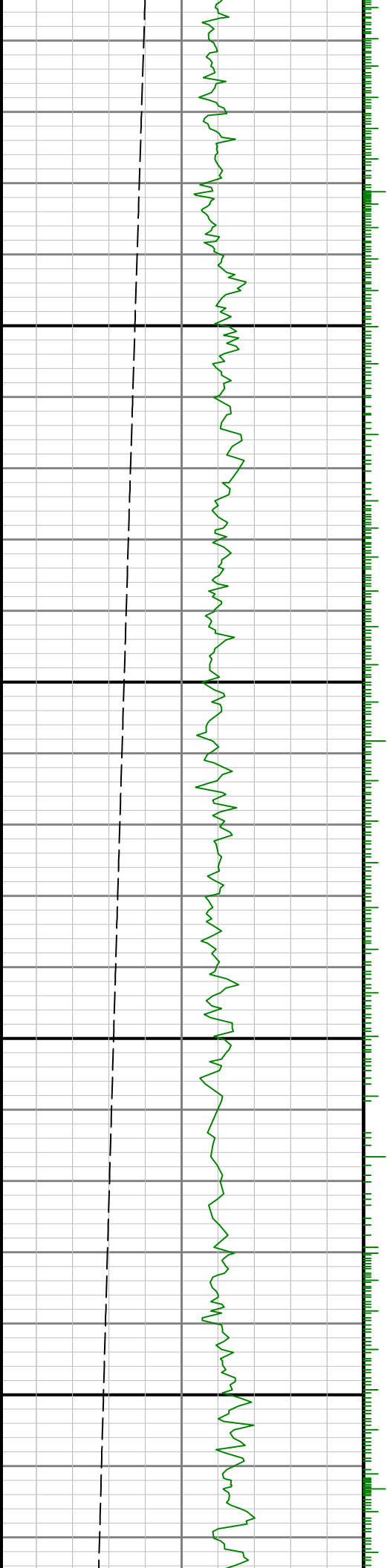
Remarks

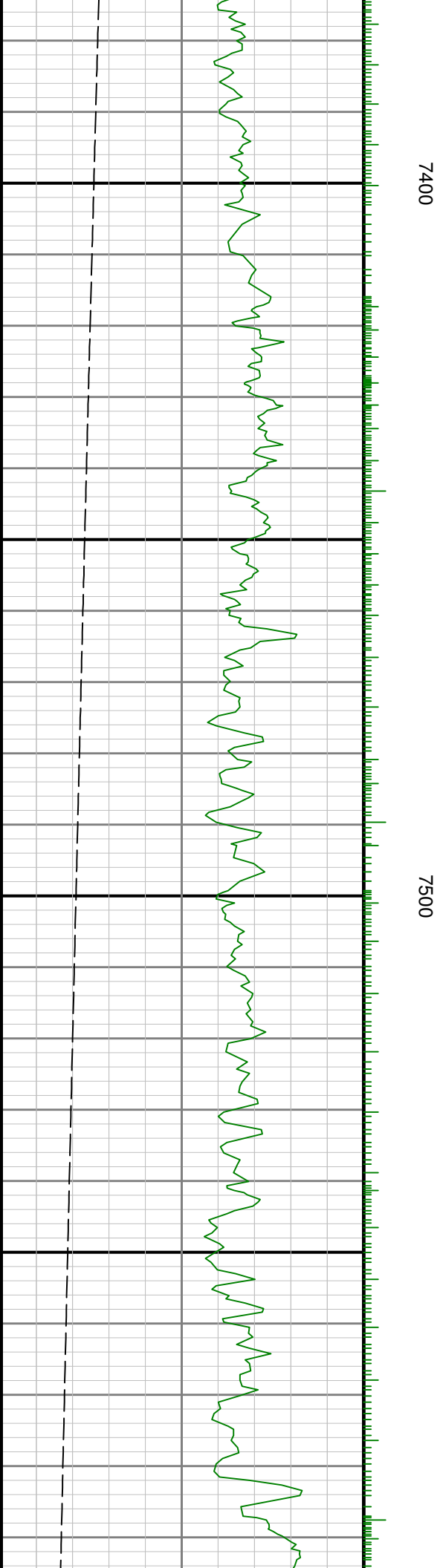
Number	Measured Depth	Hole Section	LWD Run No.	Remark
--------	-------------------	-----------------	----------------	--------

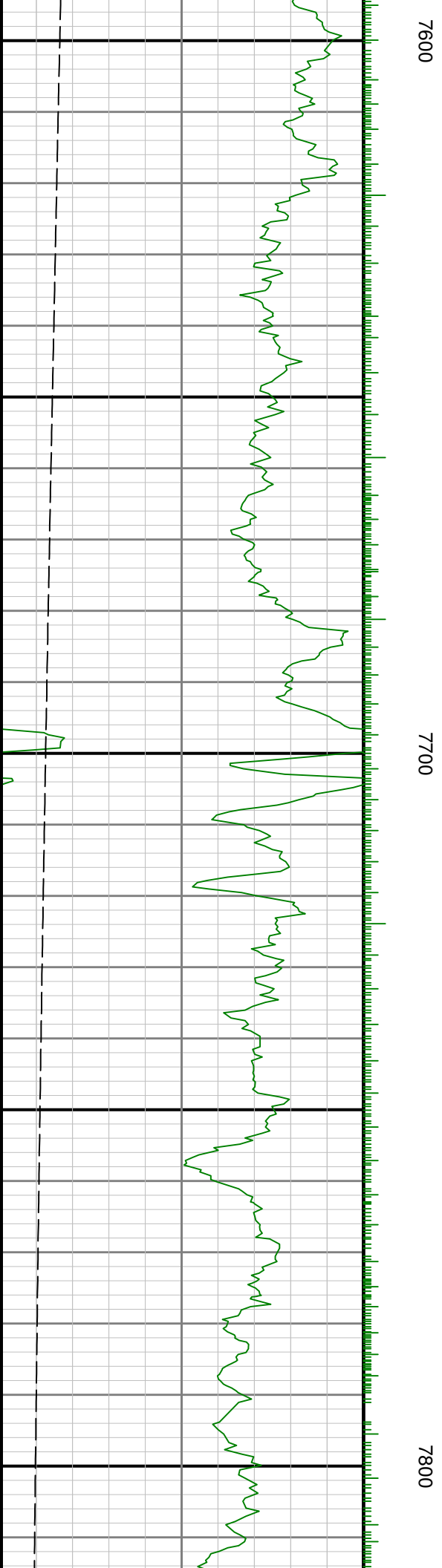
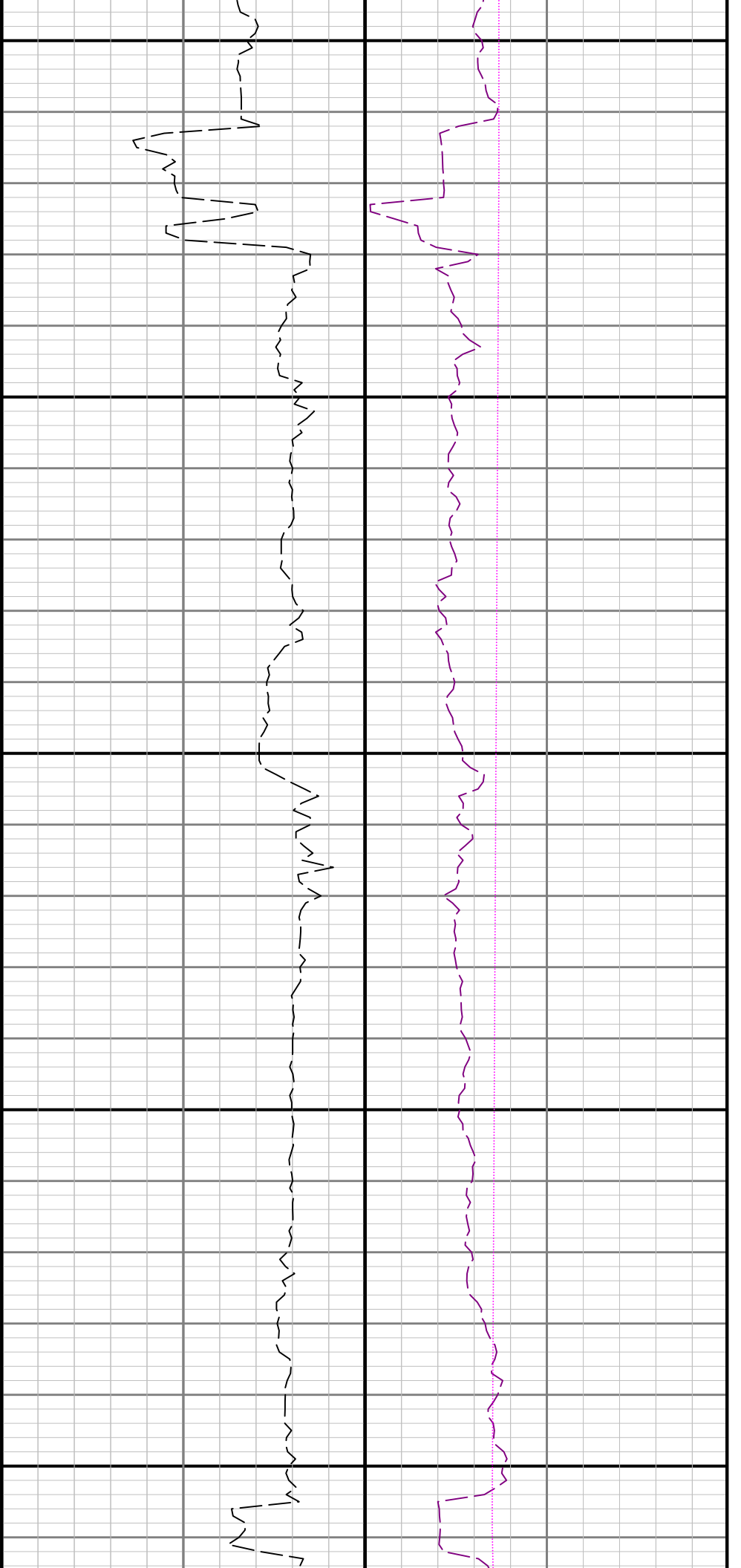


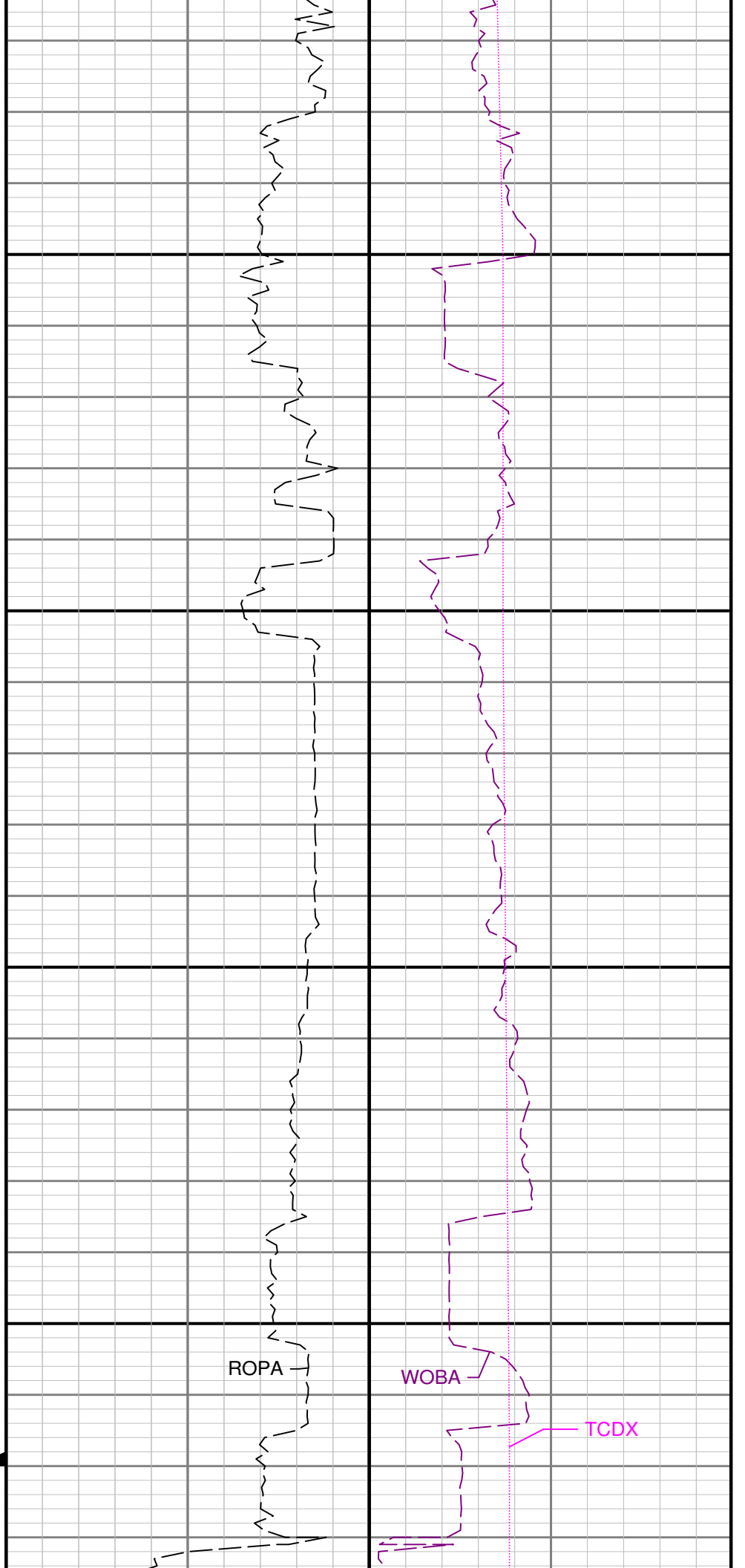
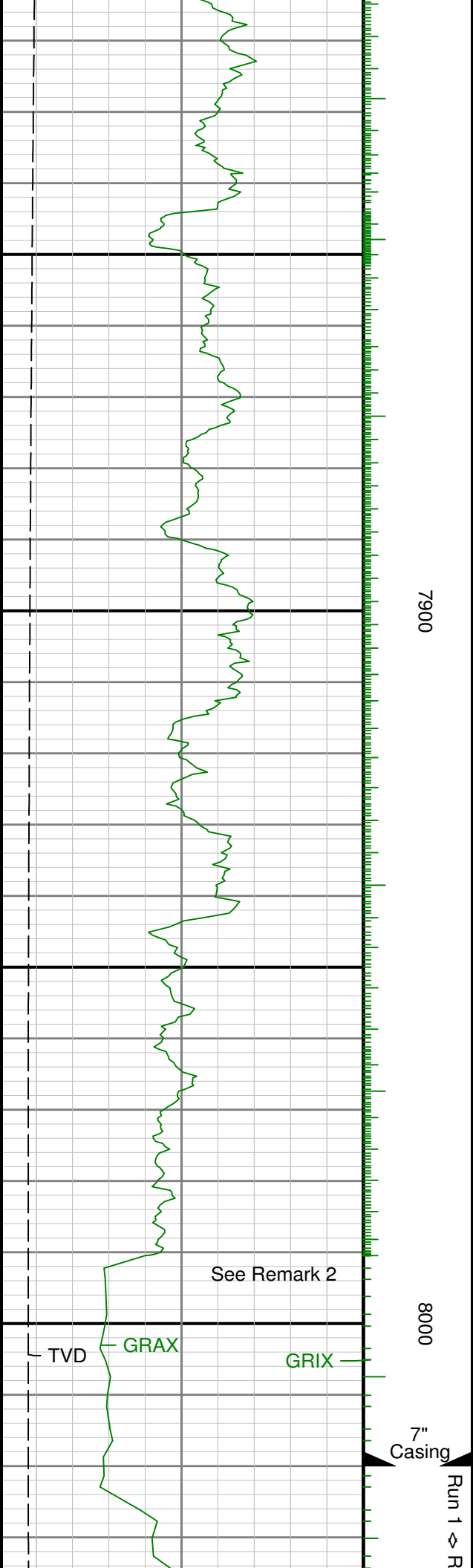
7200

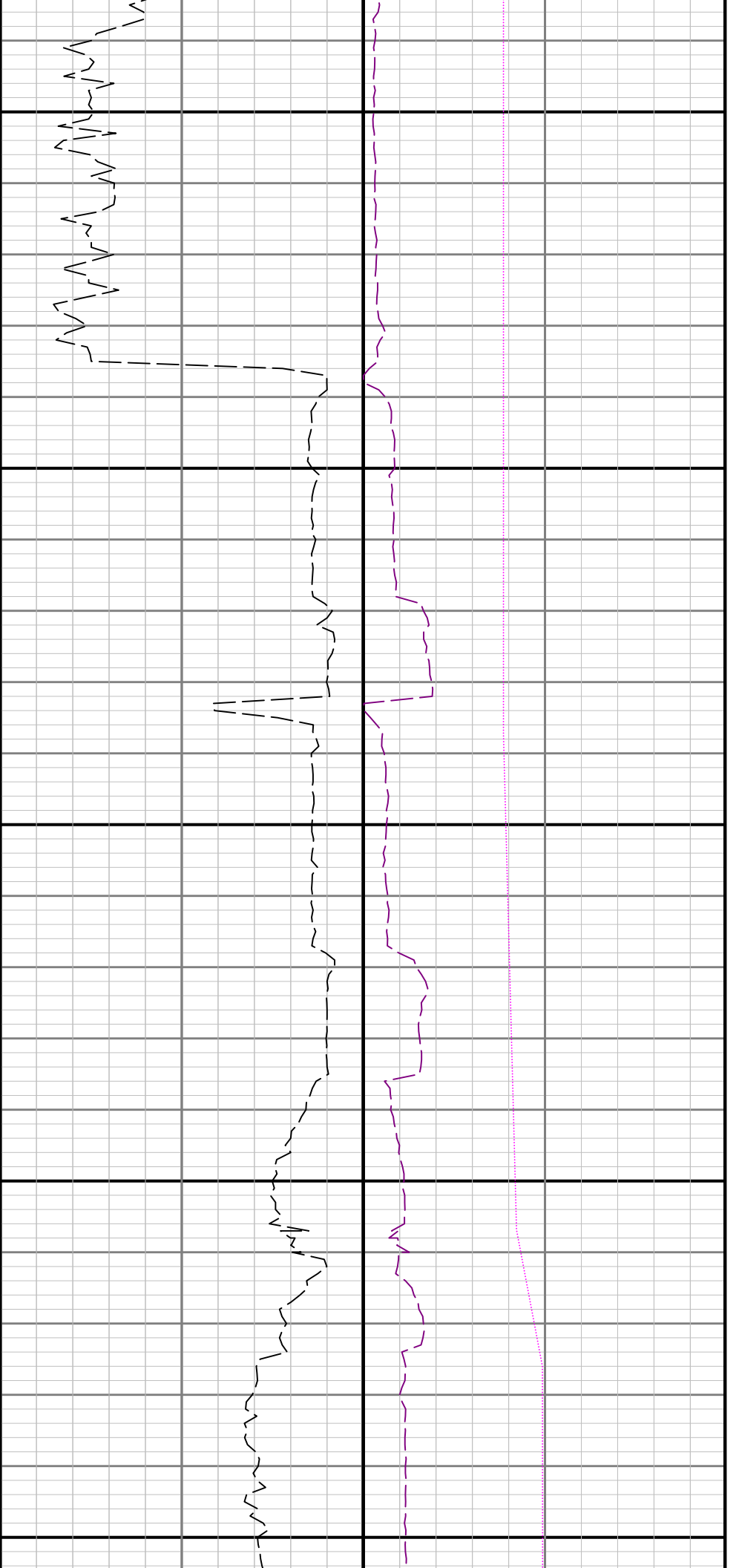
7300





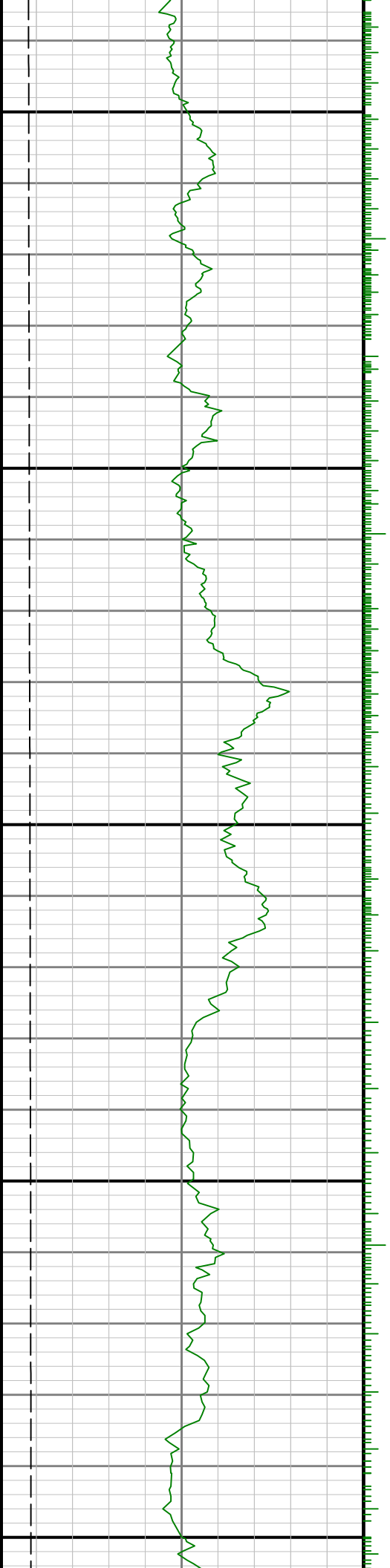


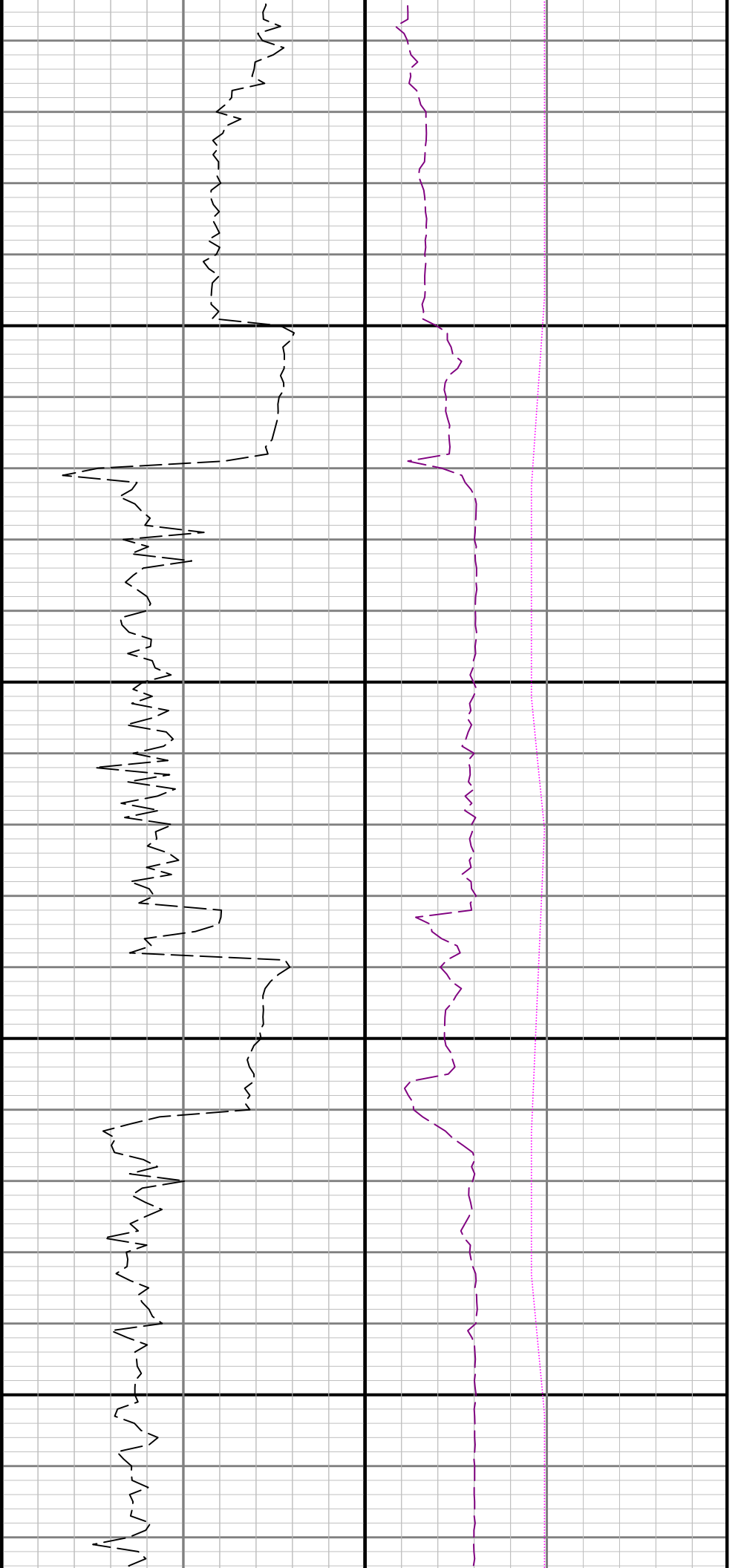




8100

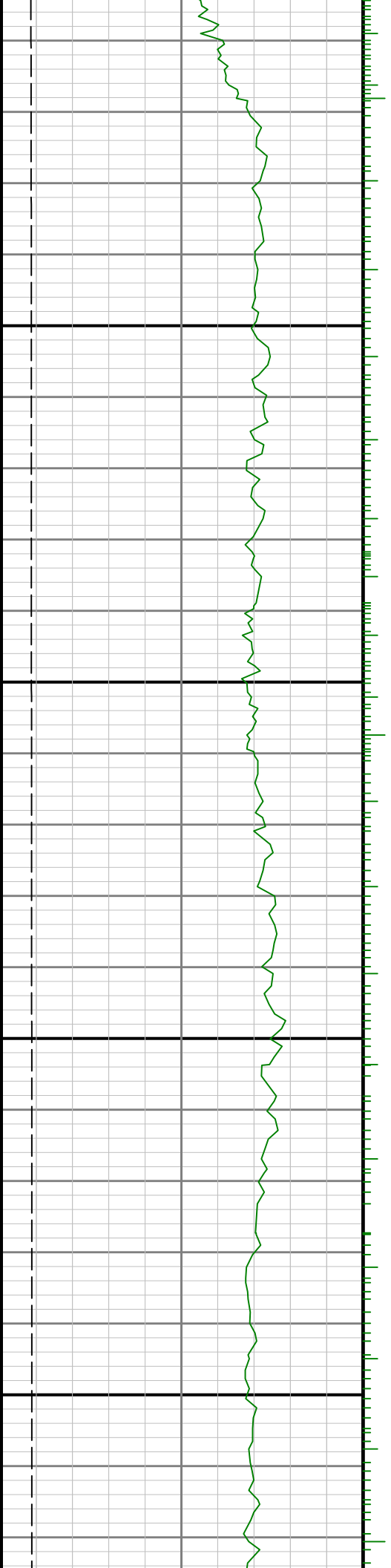
Run 2 ⇔ Run 3
8200

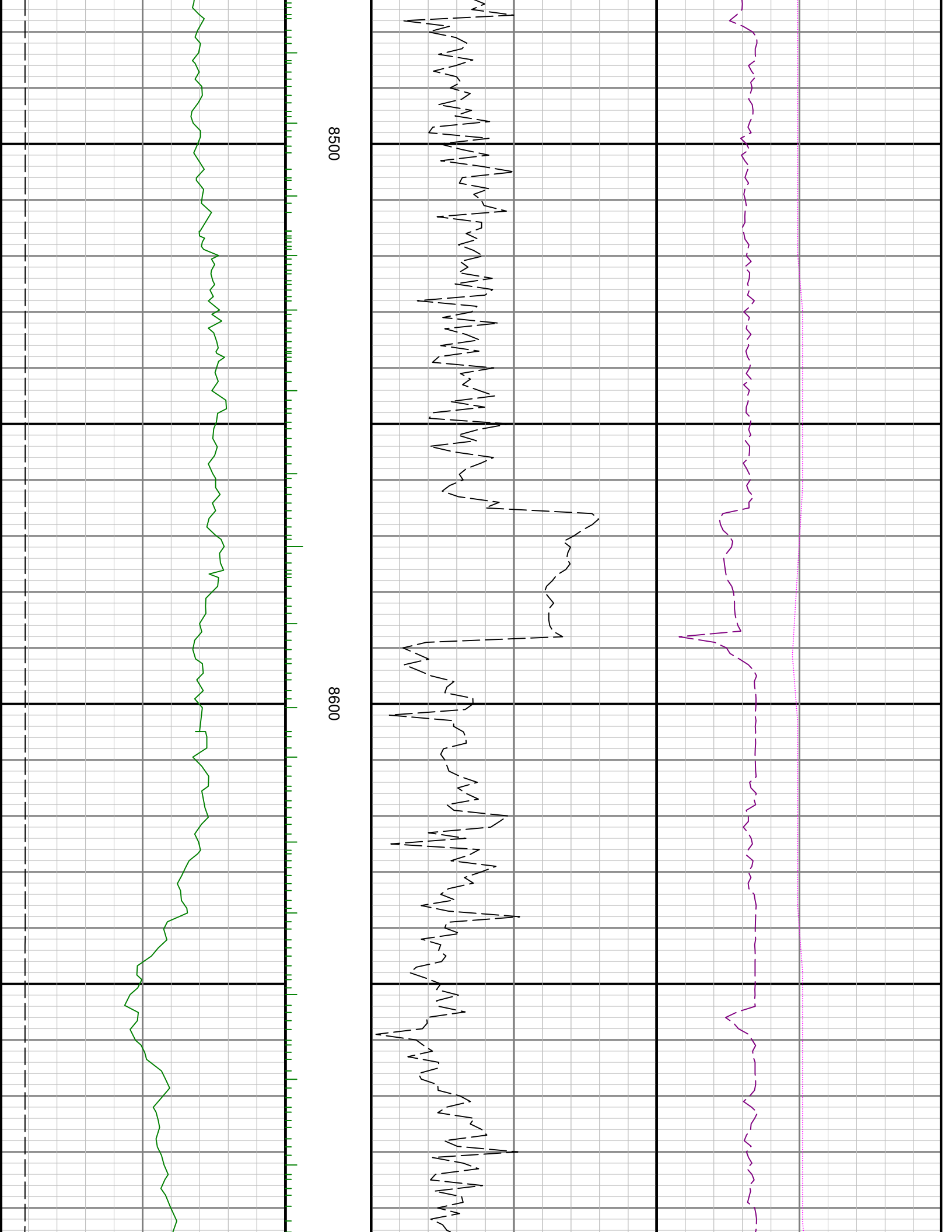


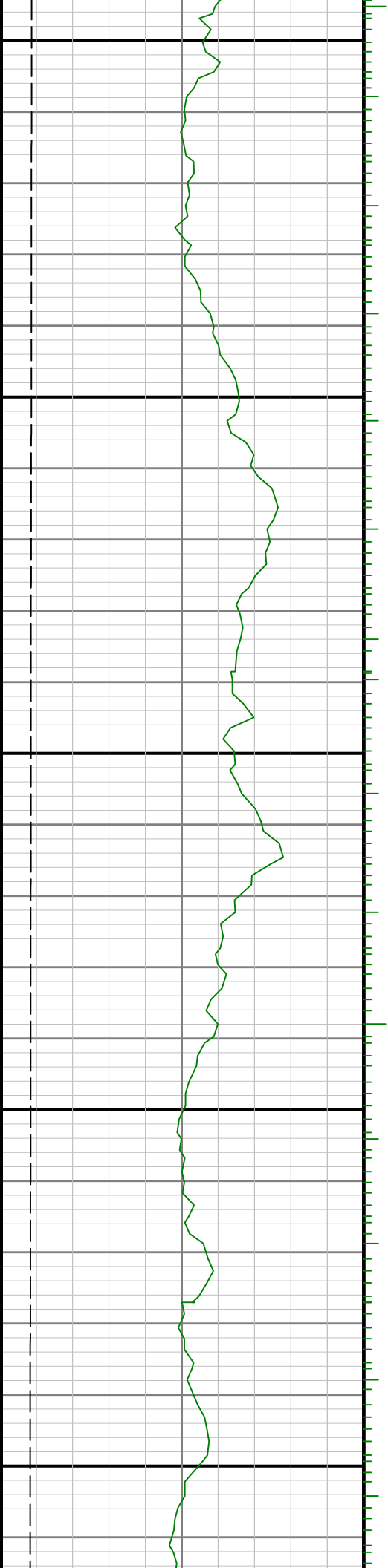


8300

8400



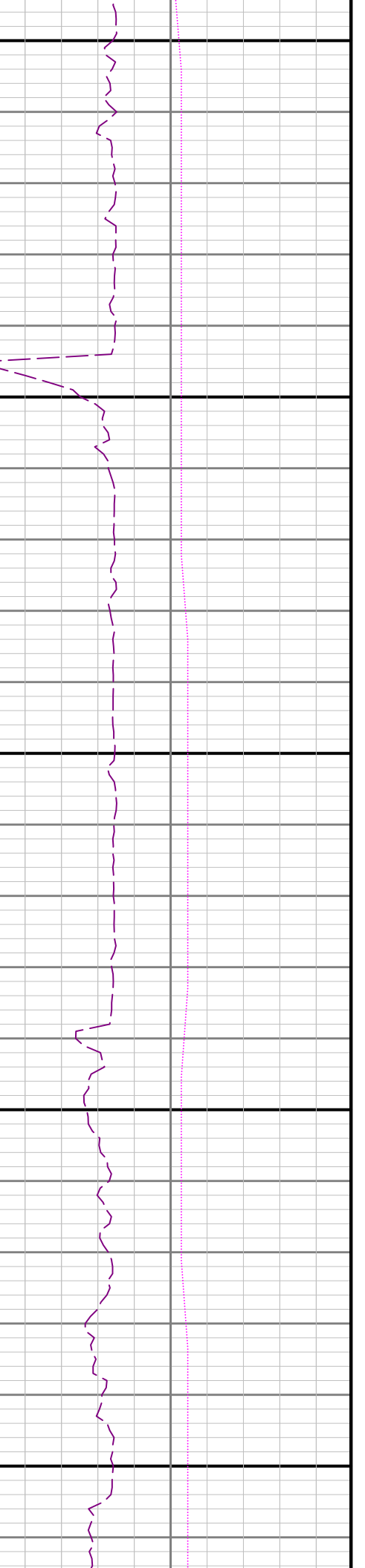
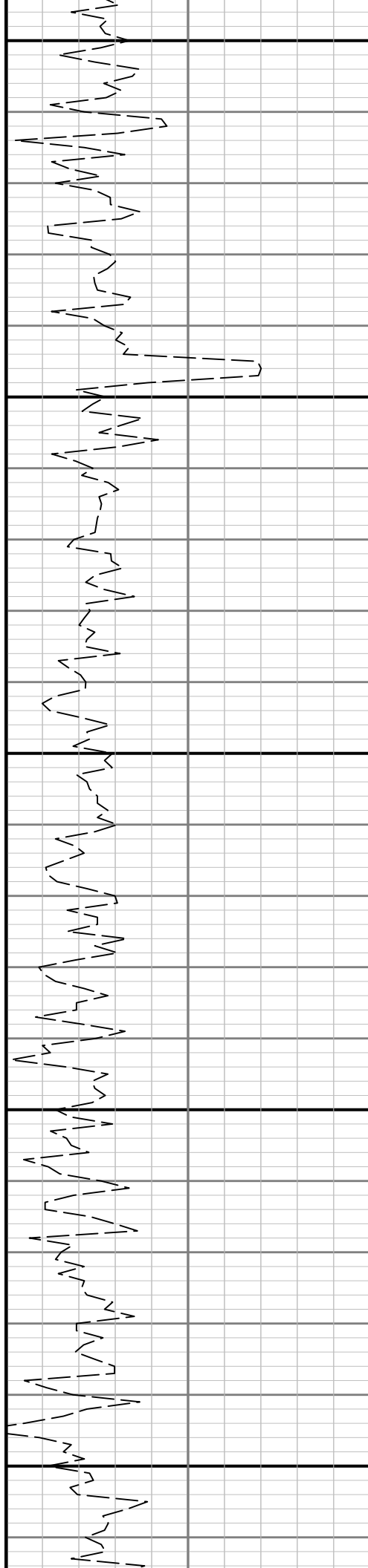


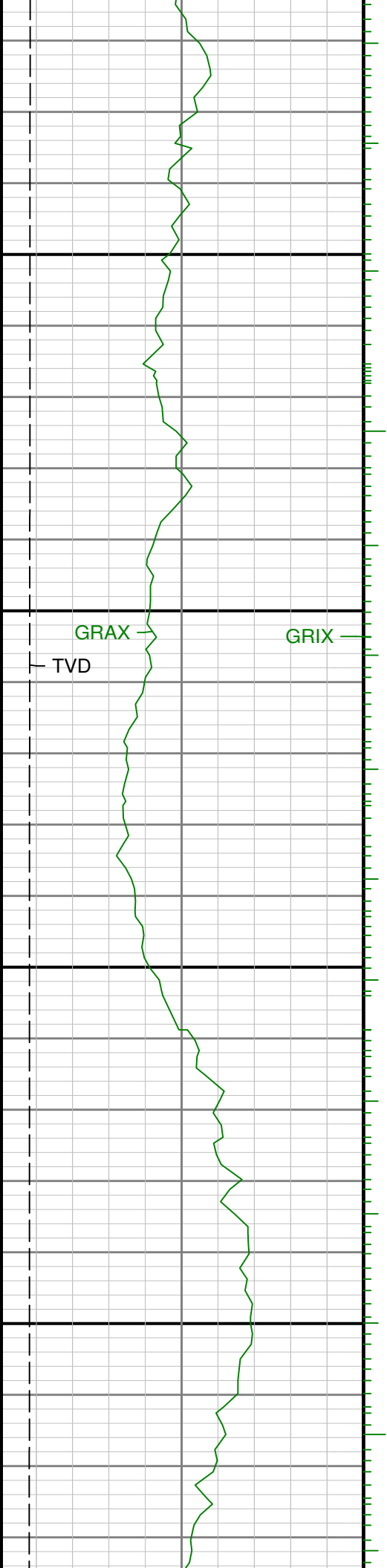


8700

8800

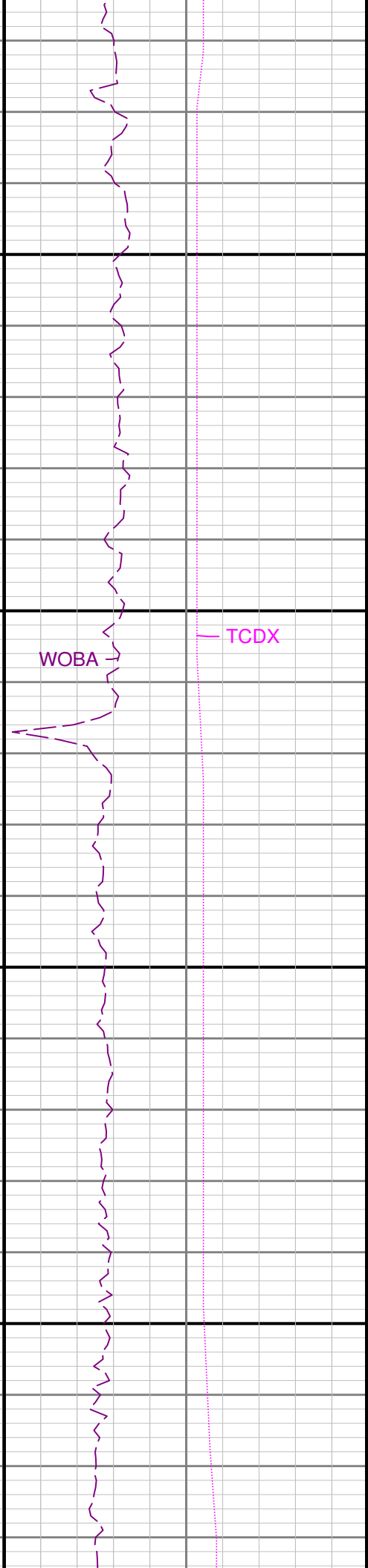
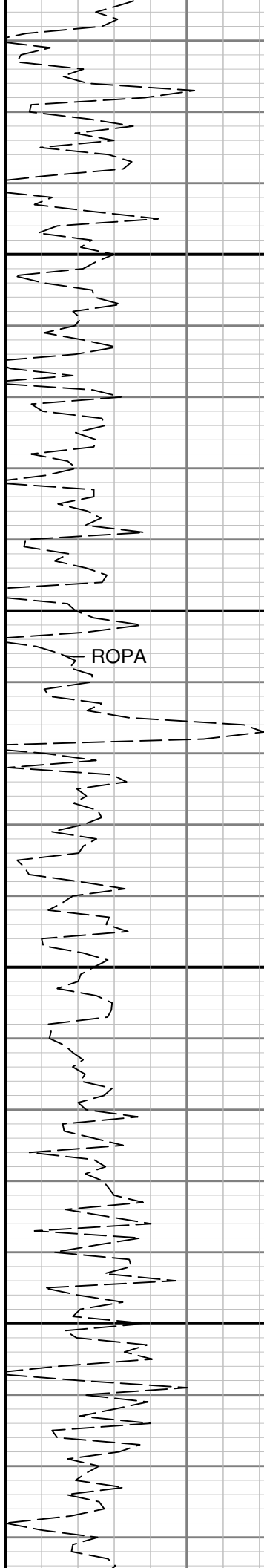
8900

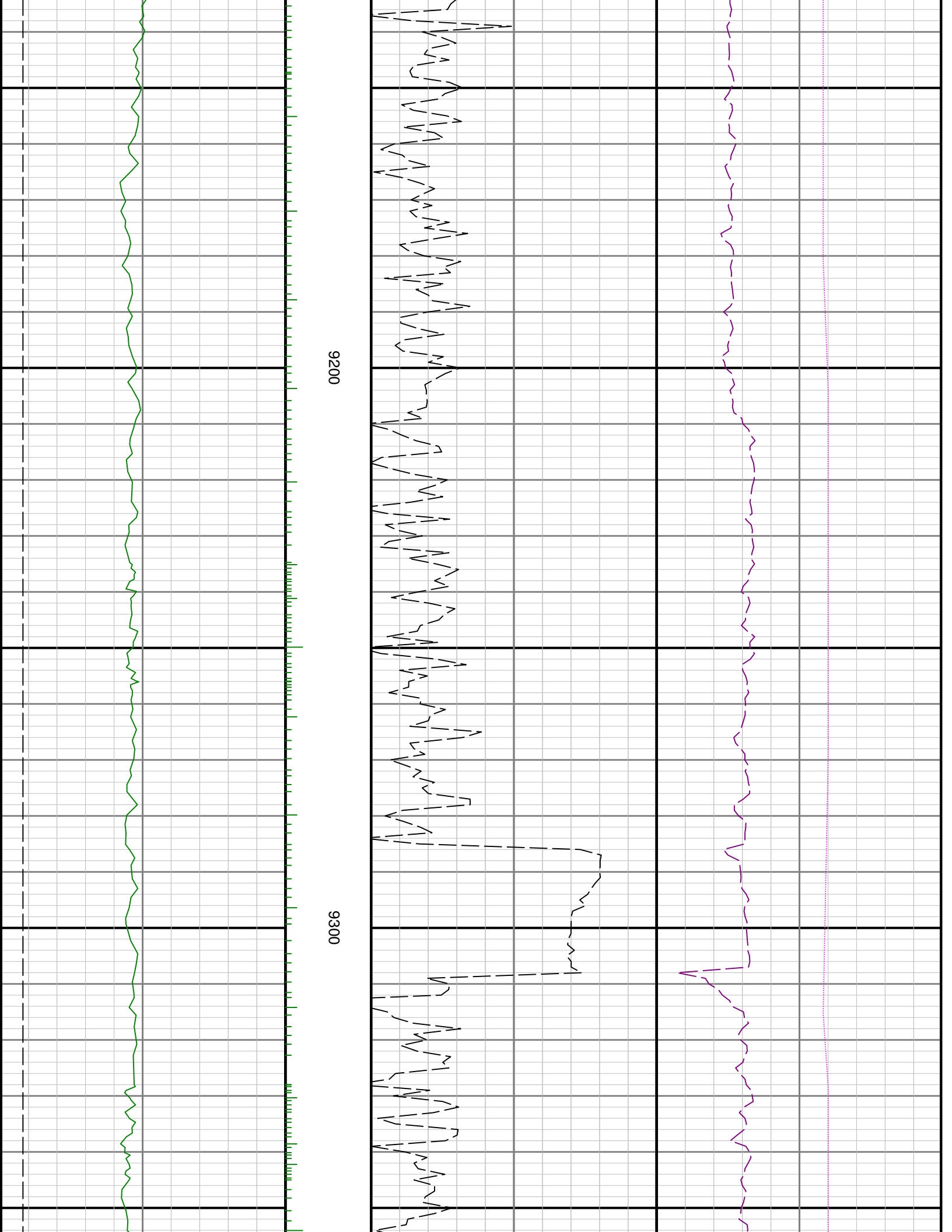


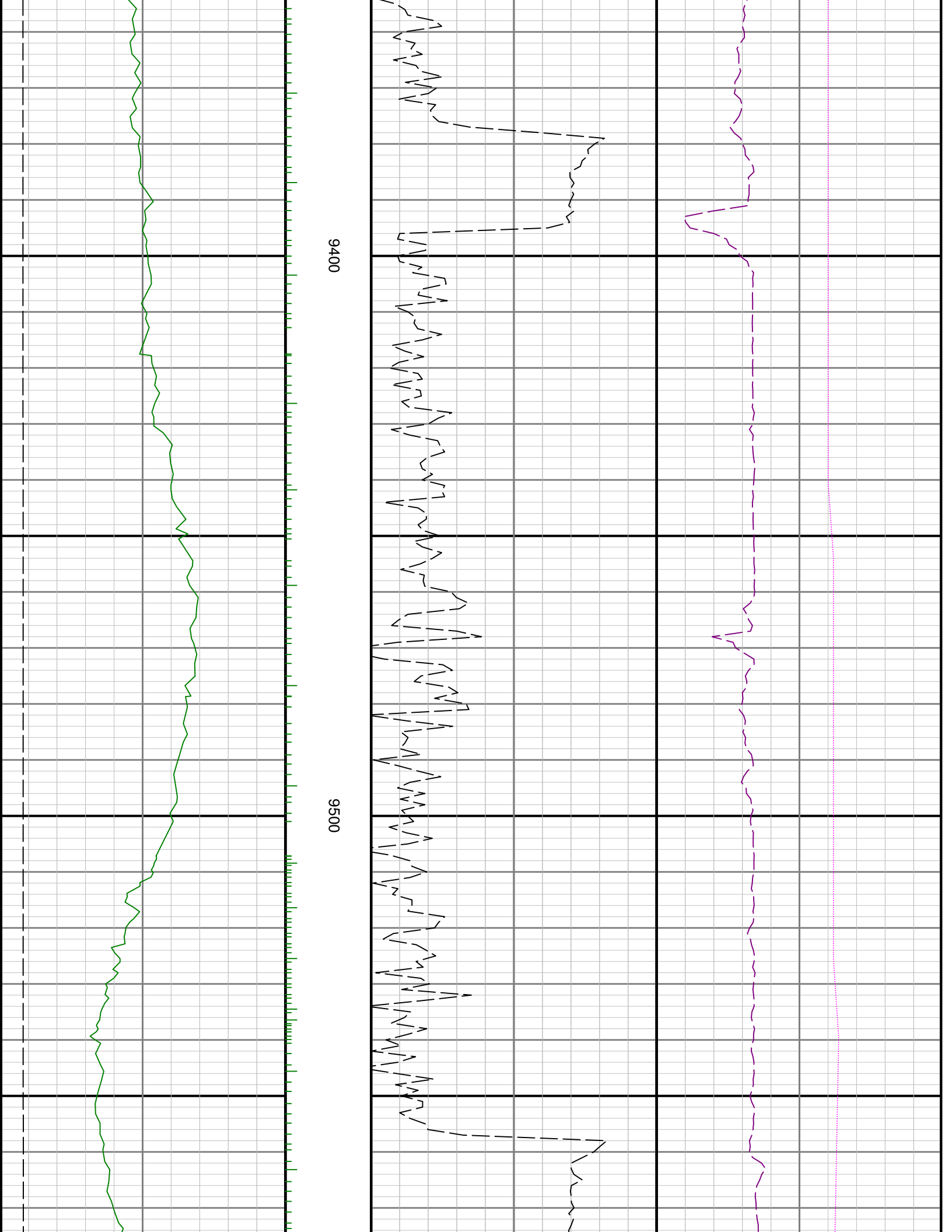


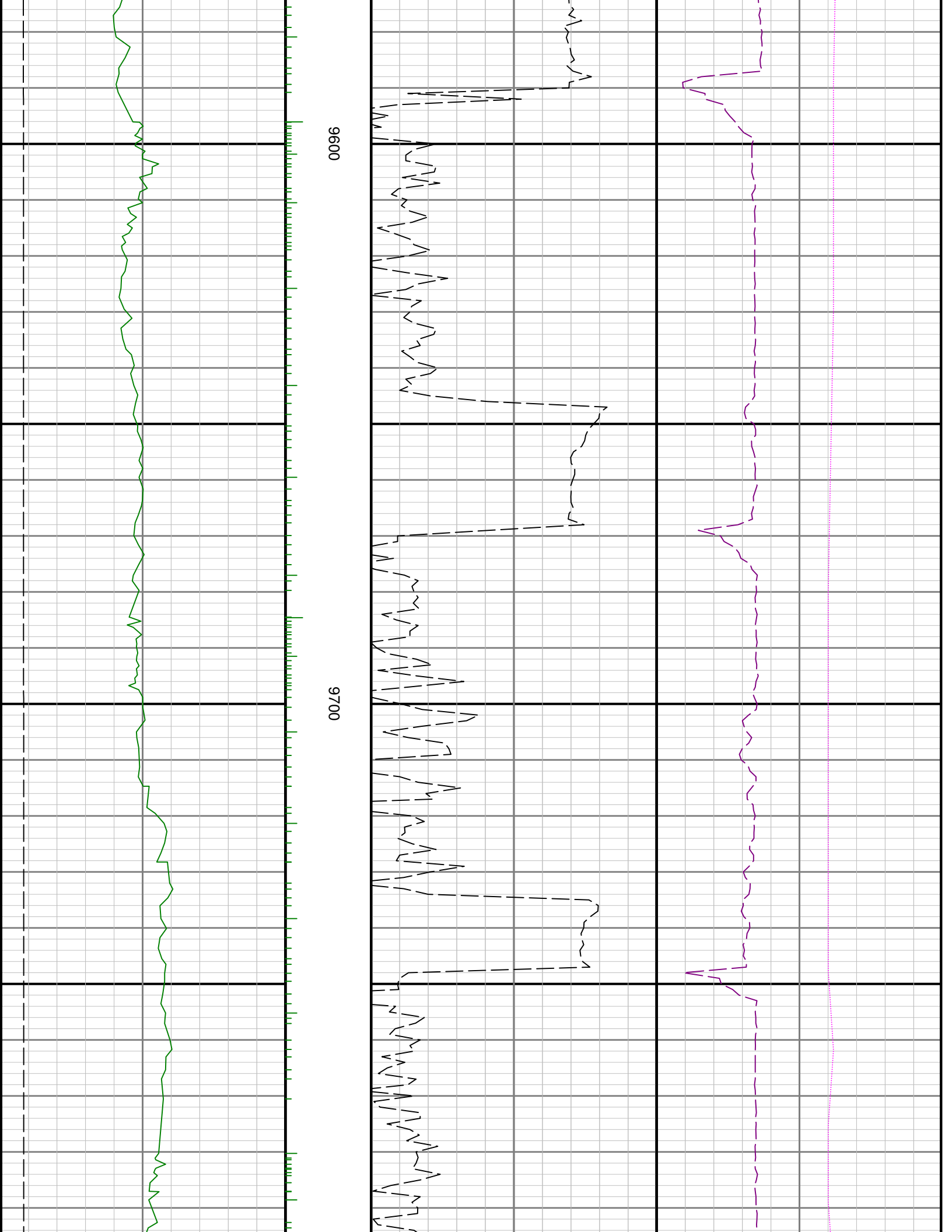
0006

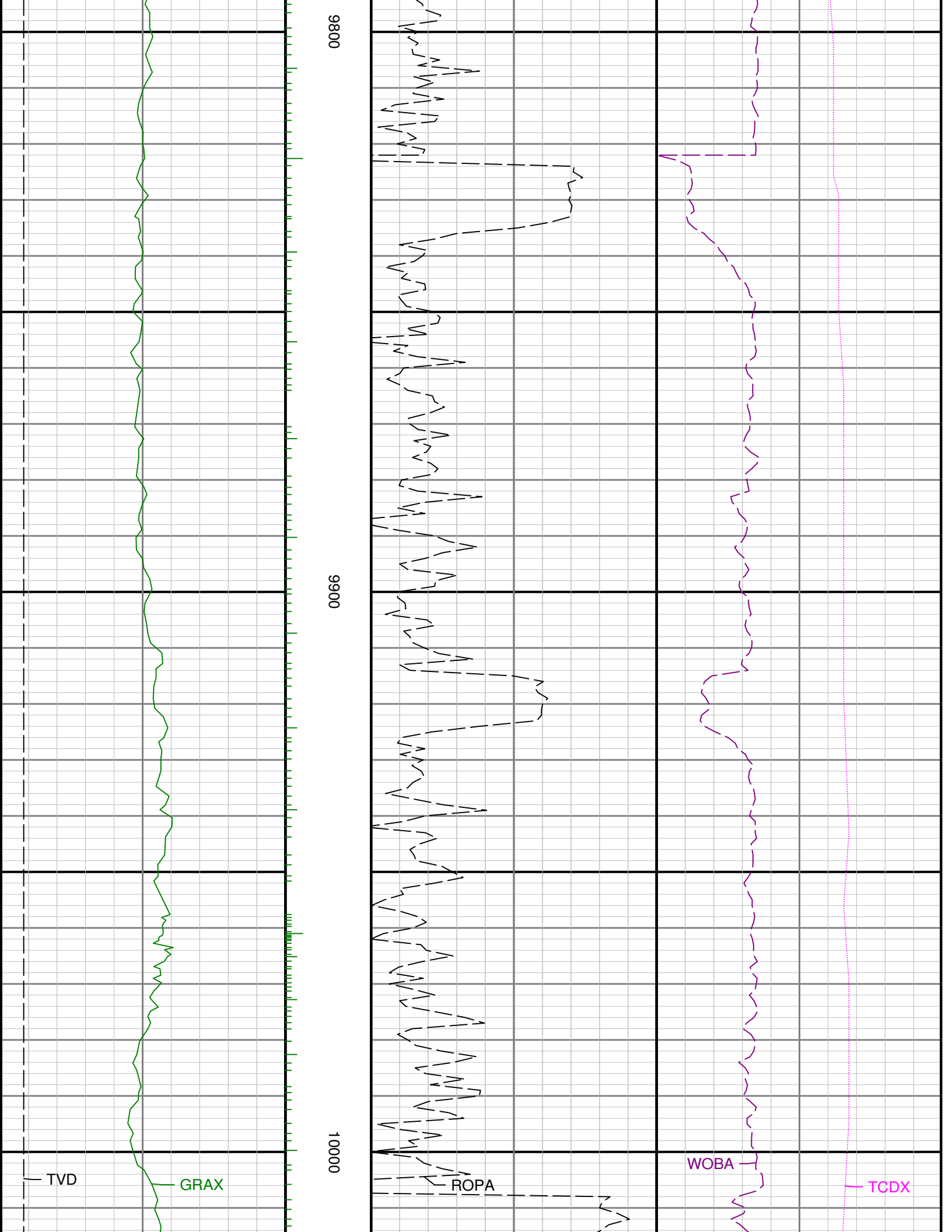
9100

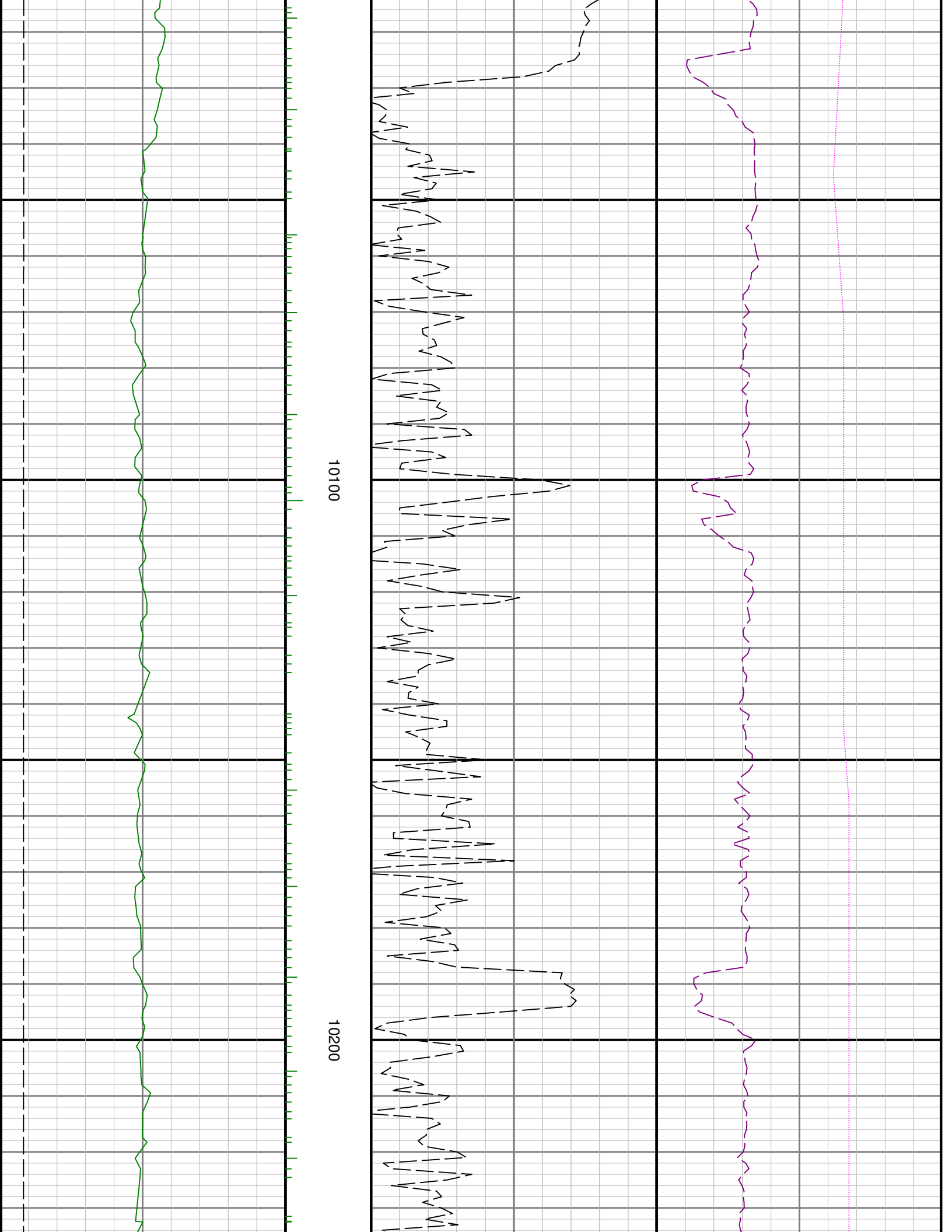


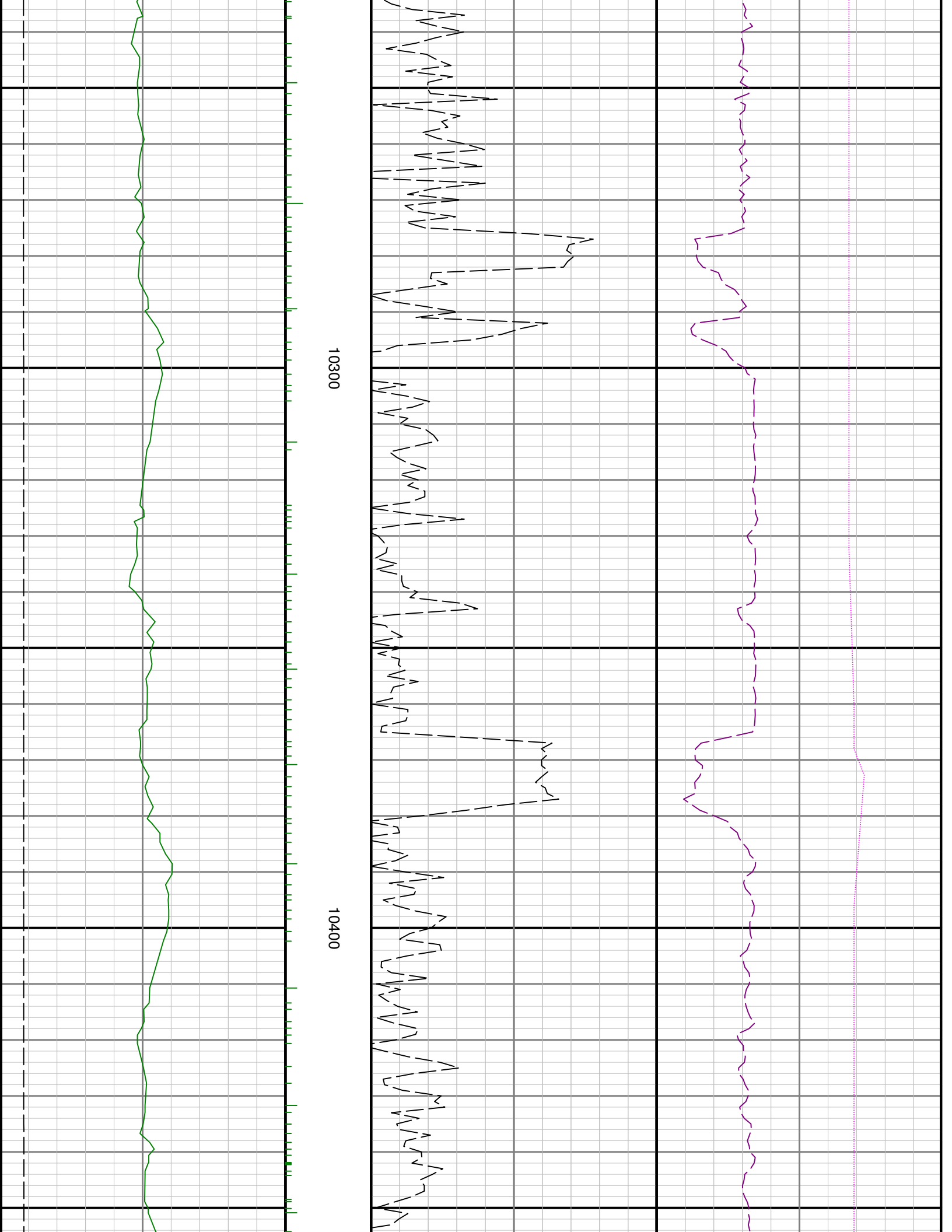


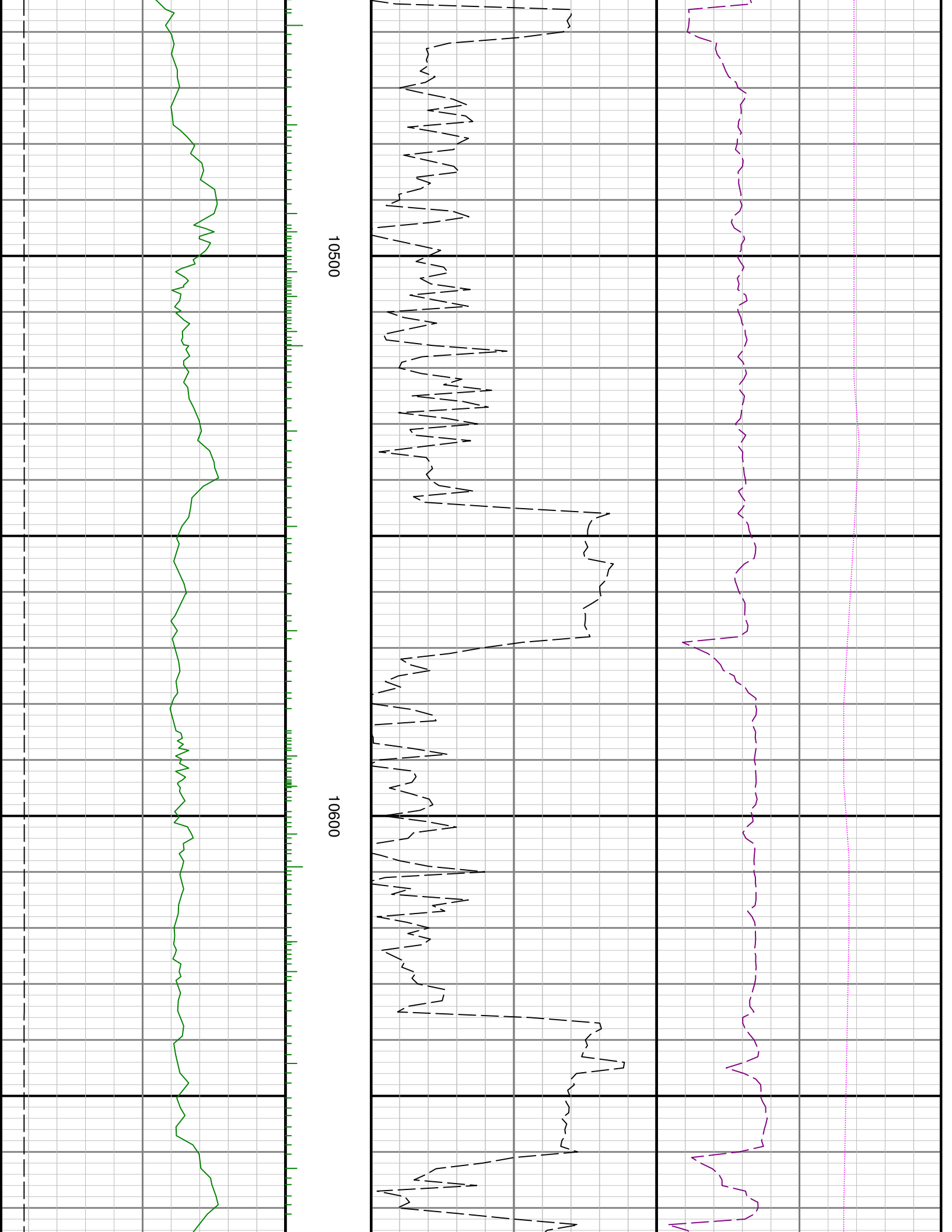


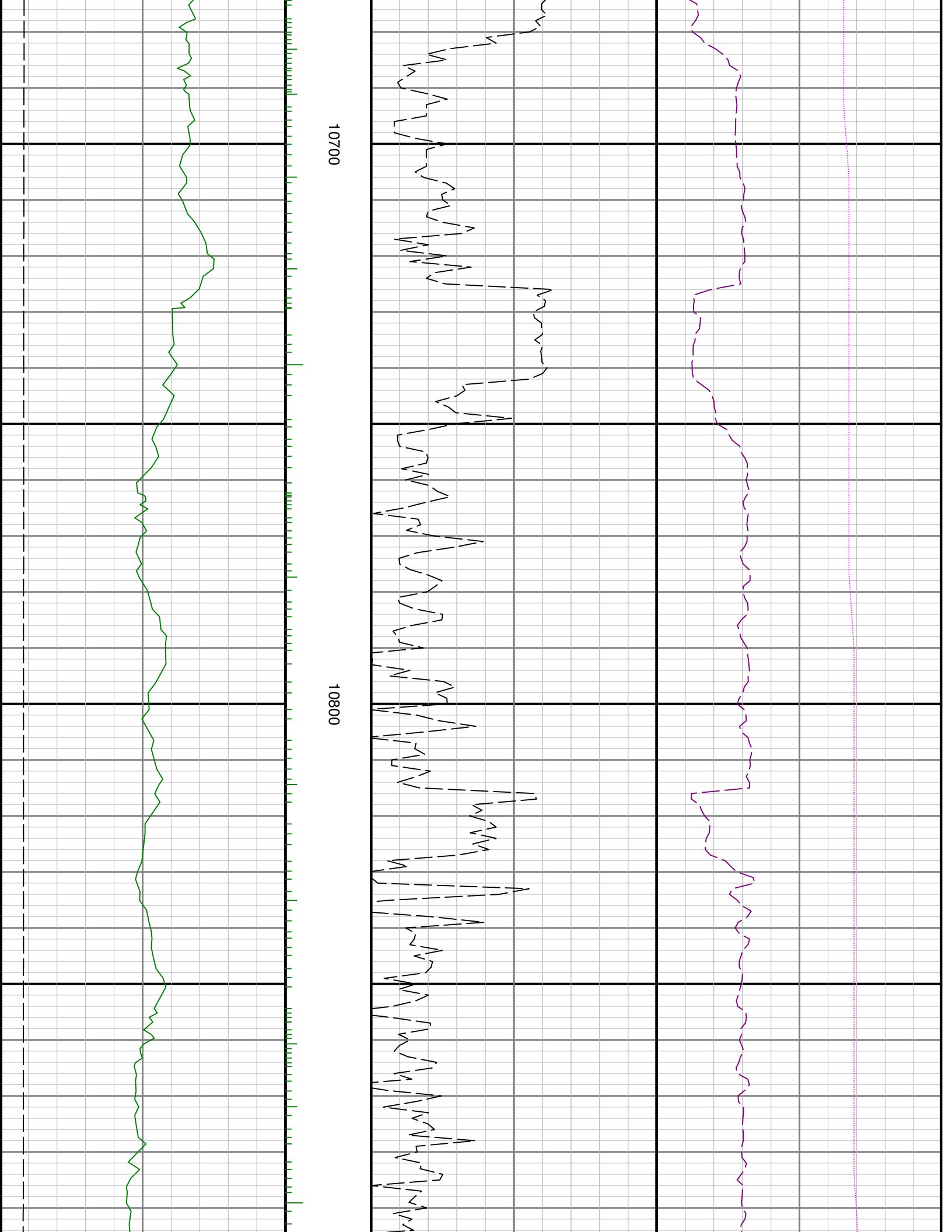


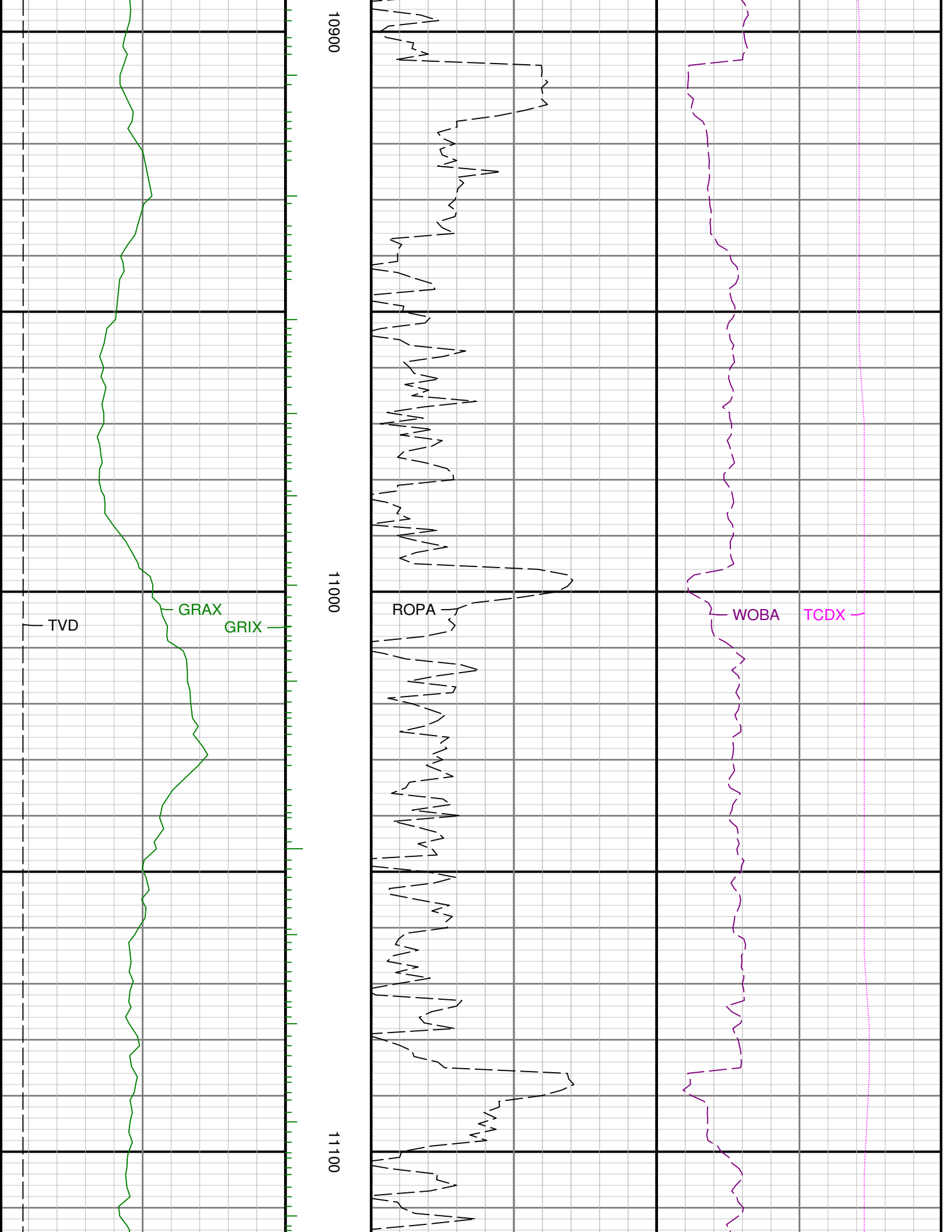


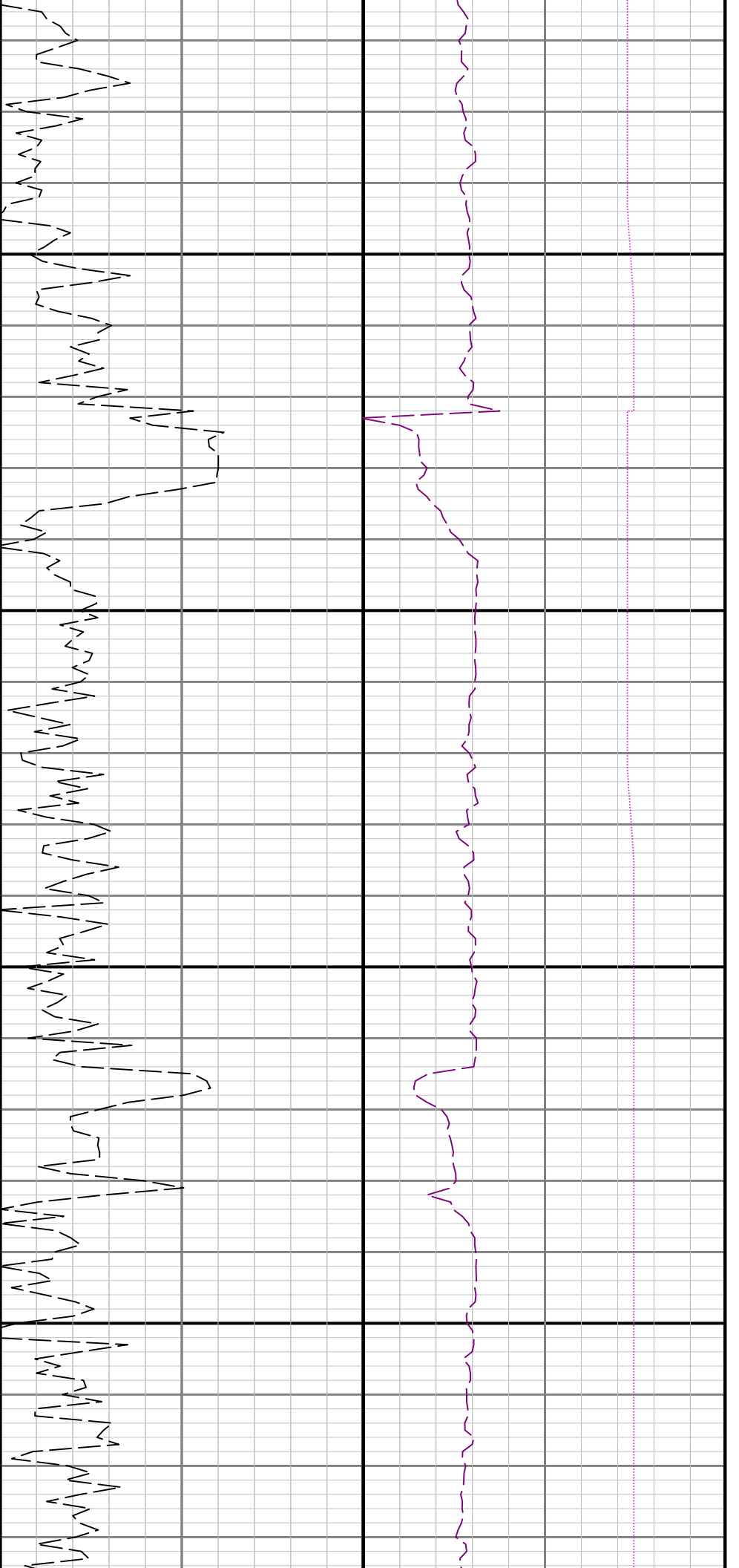






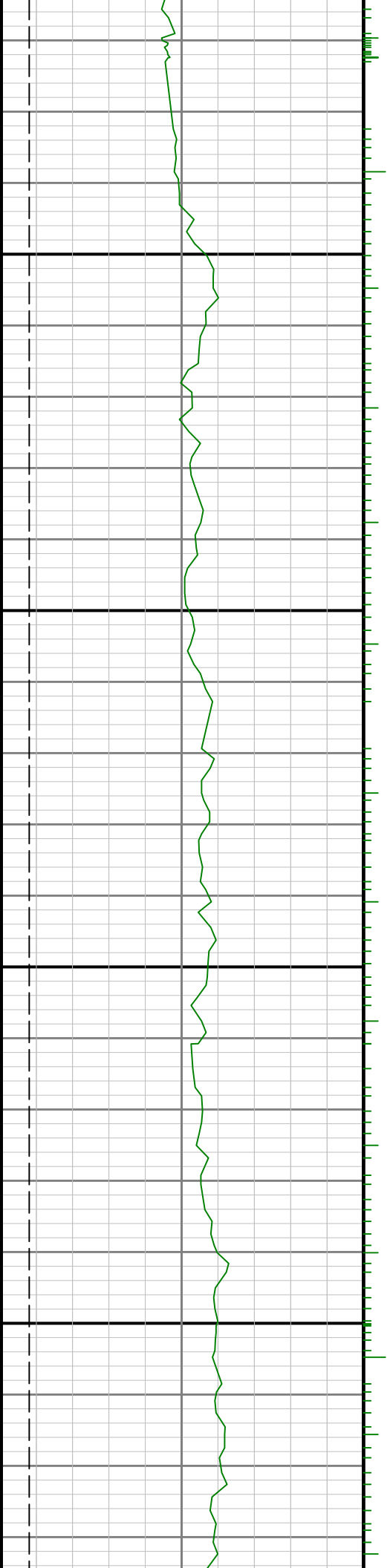


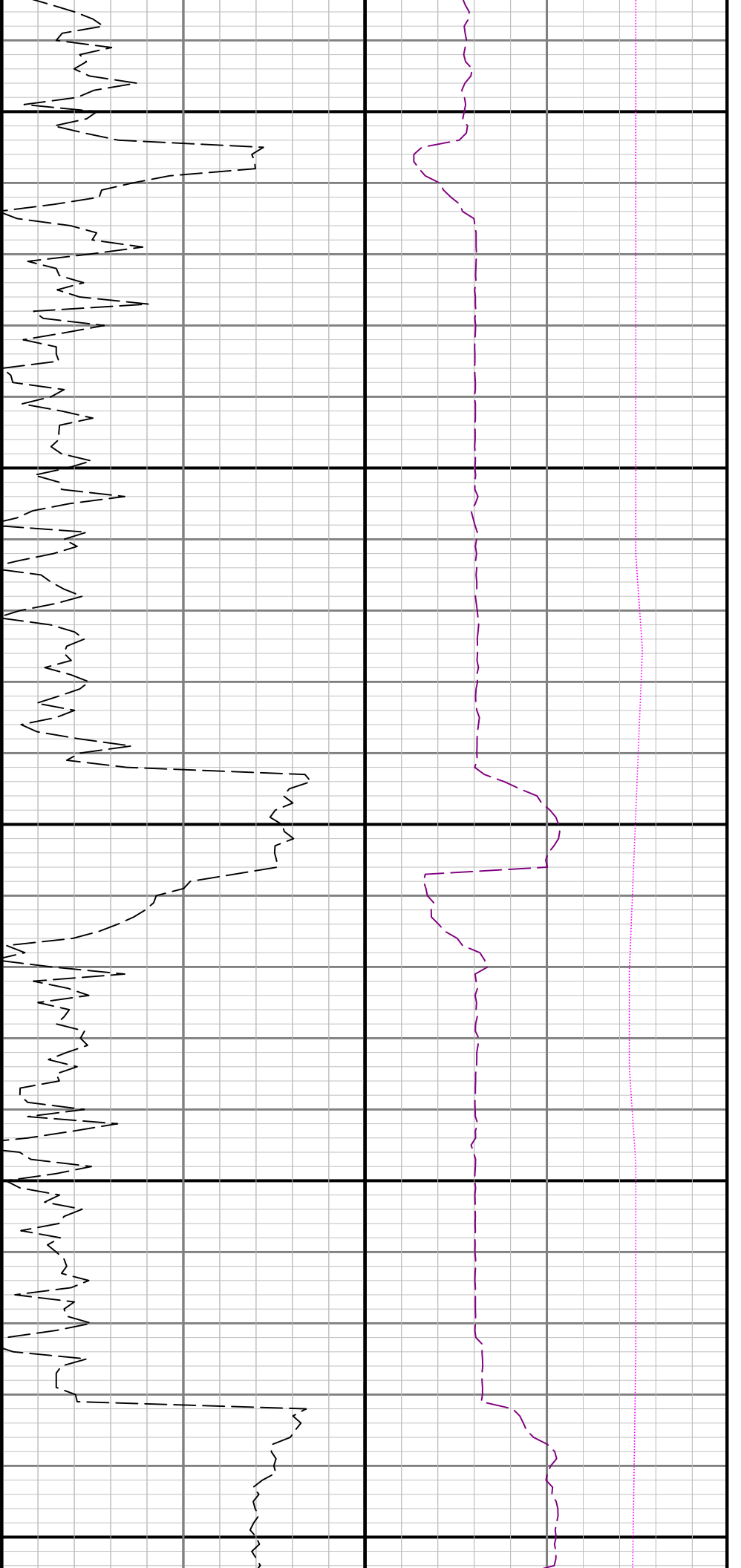




11200

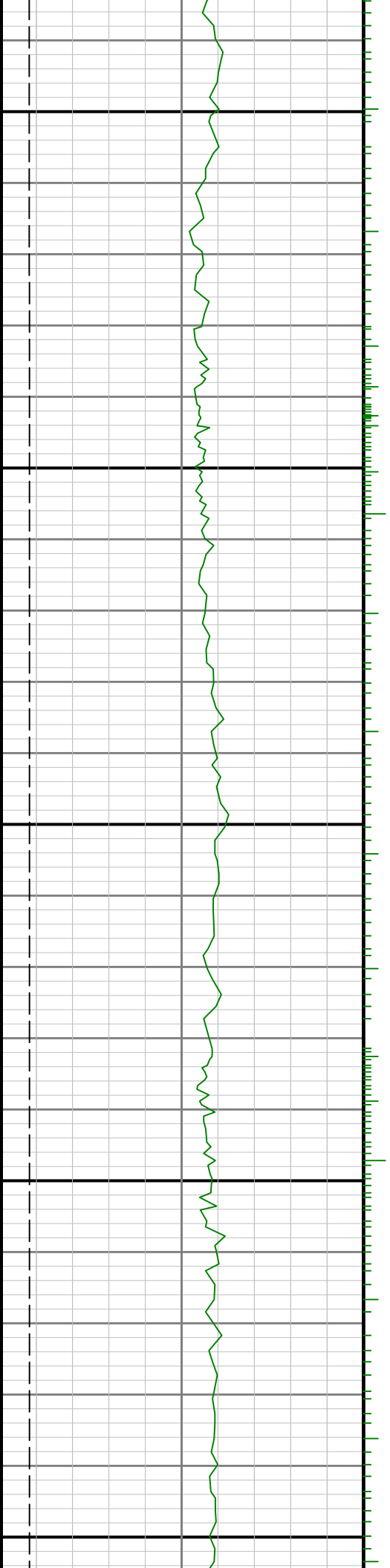
11300

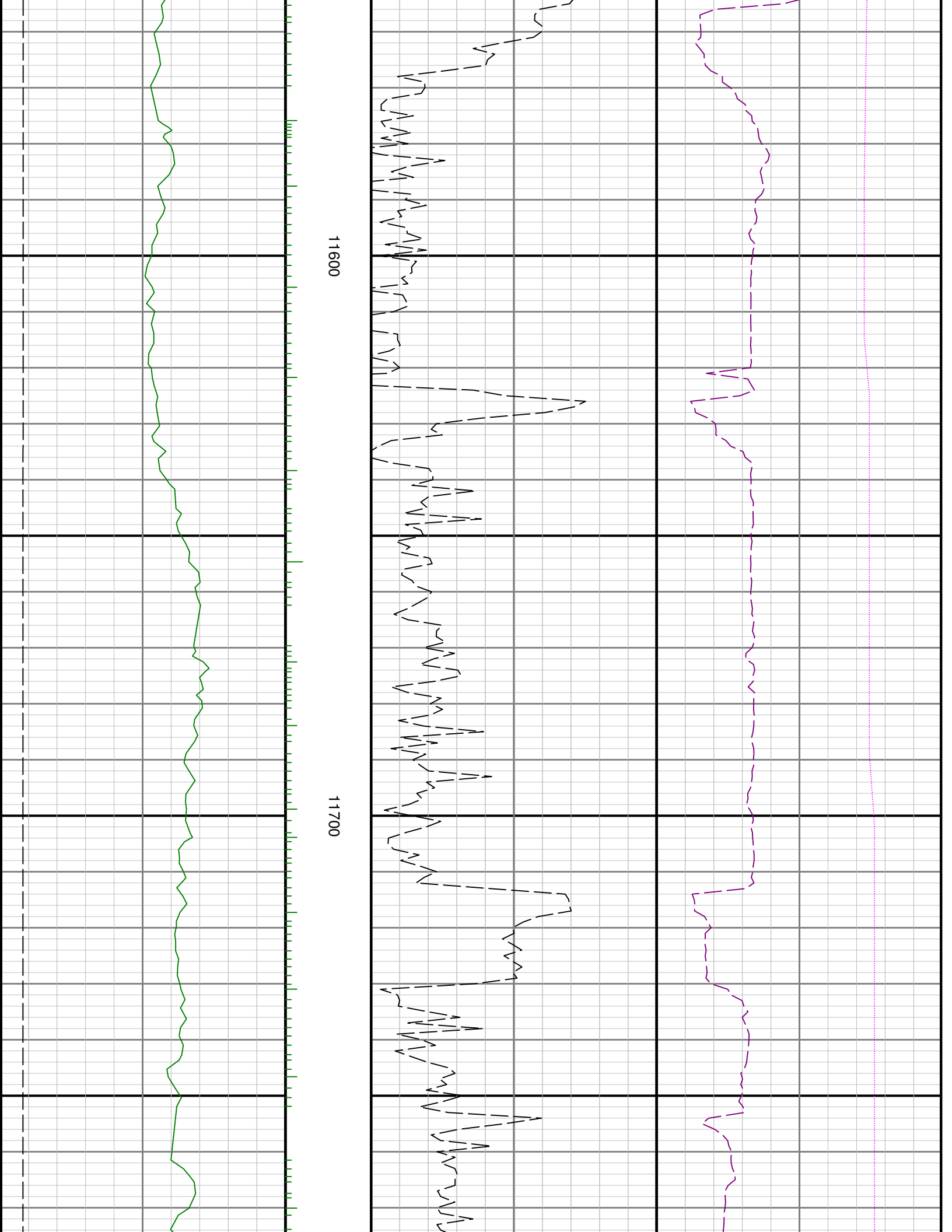


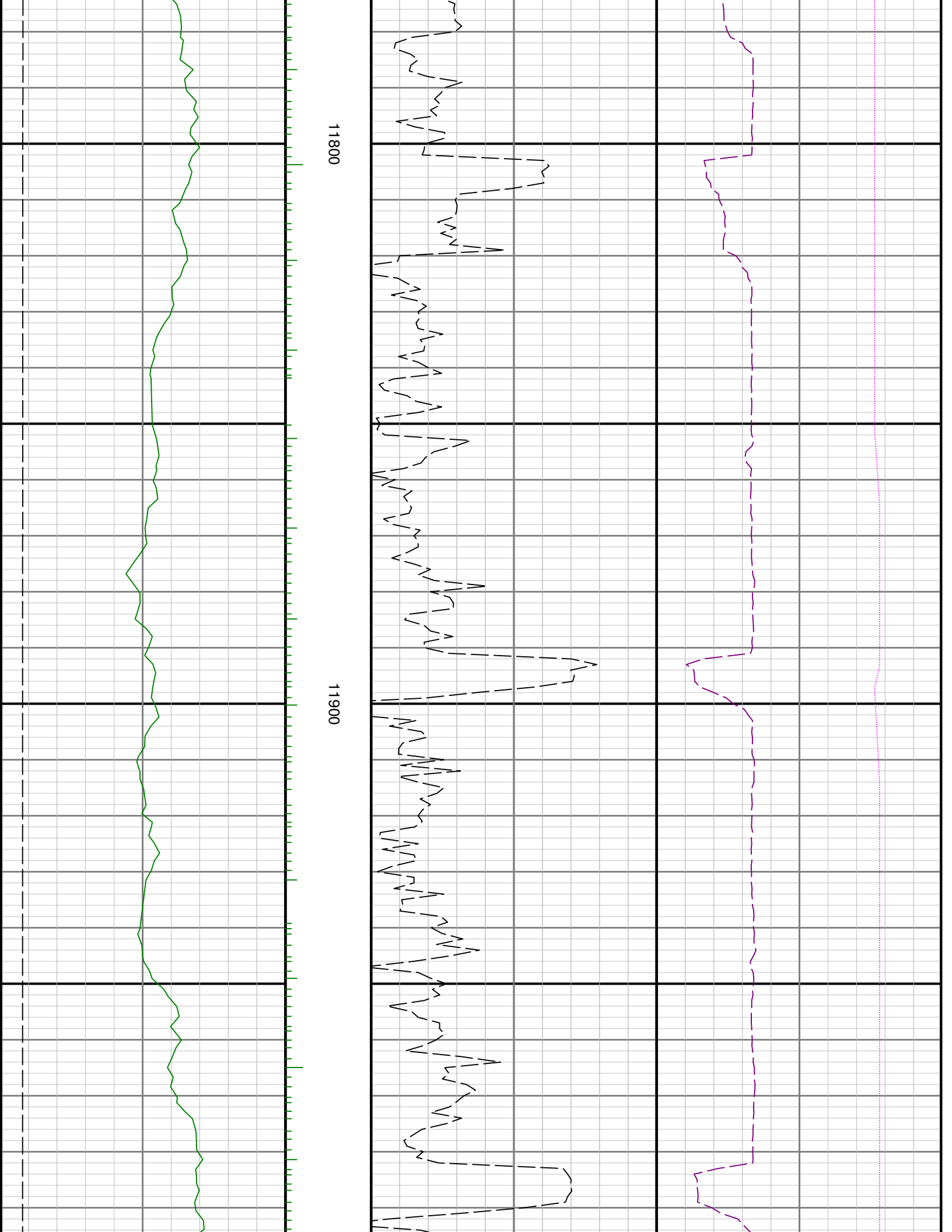


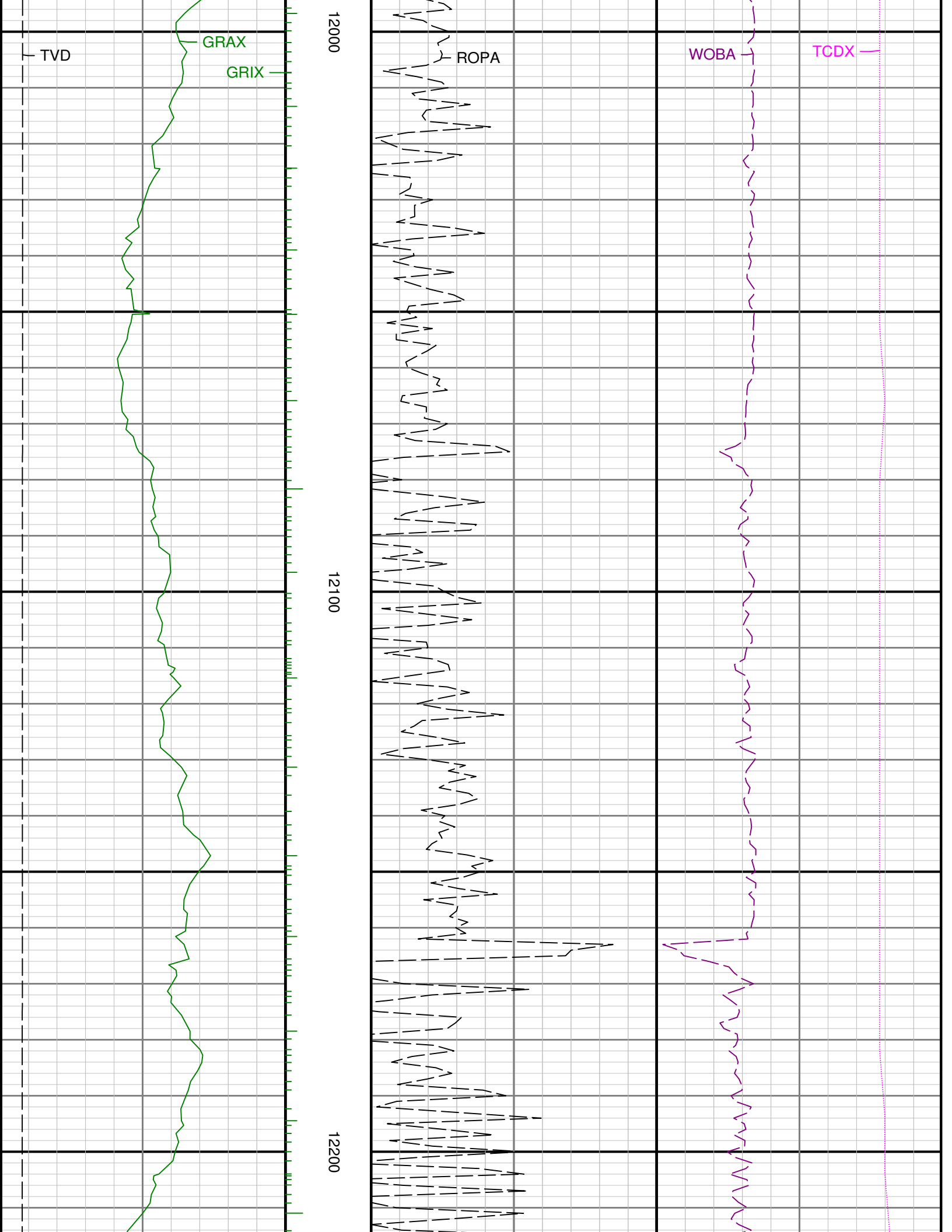
11400

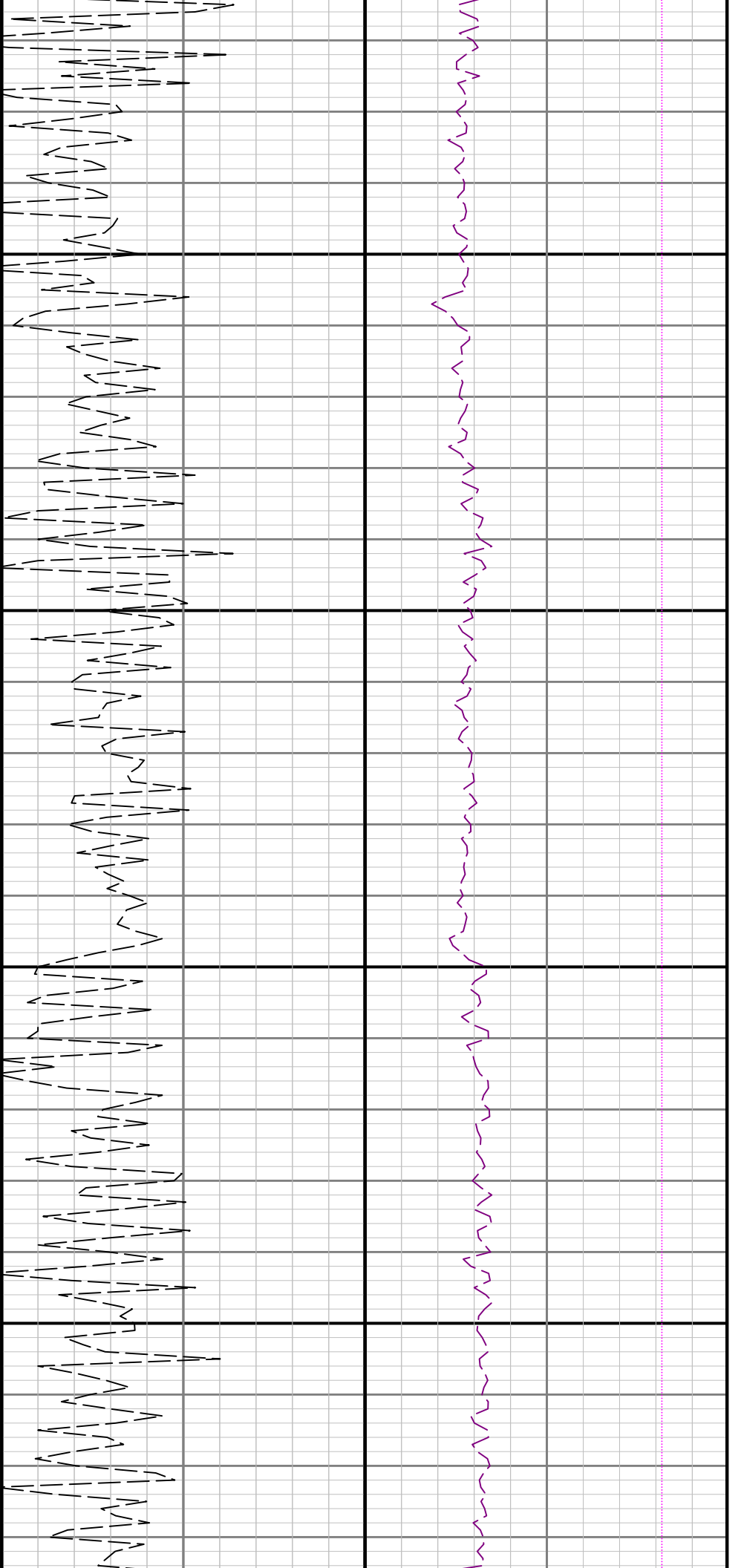
11500





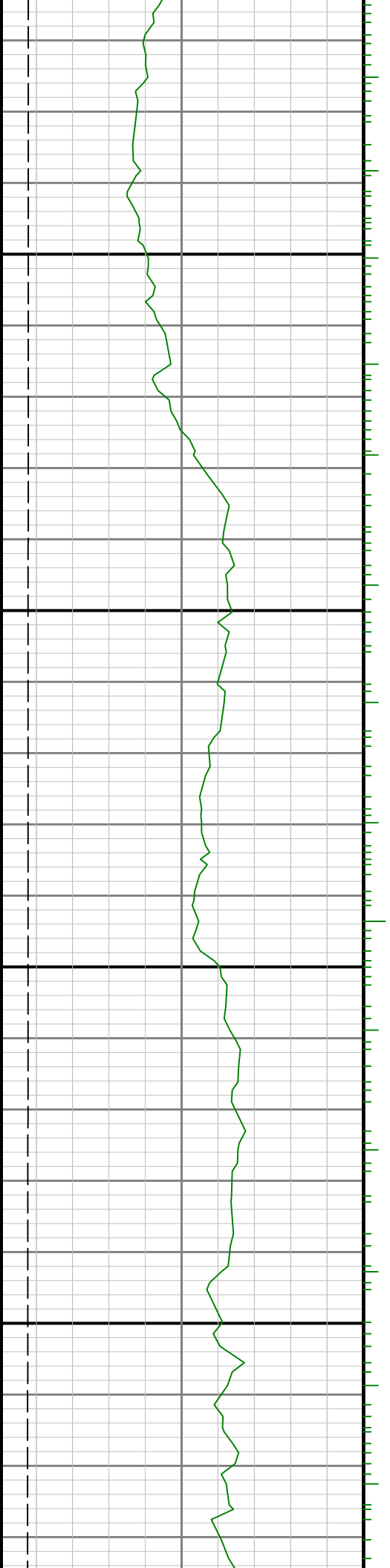


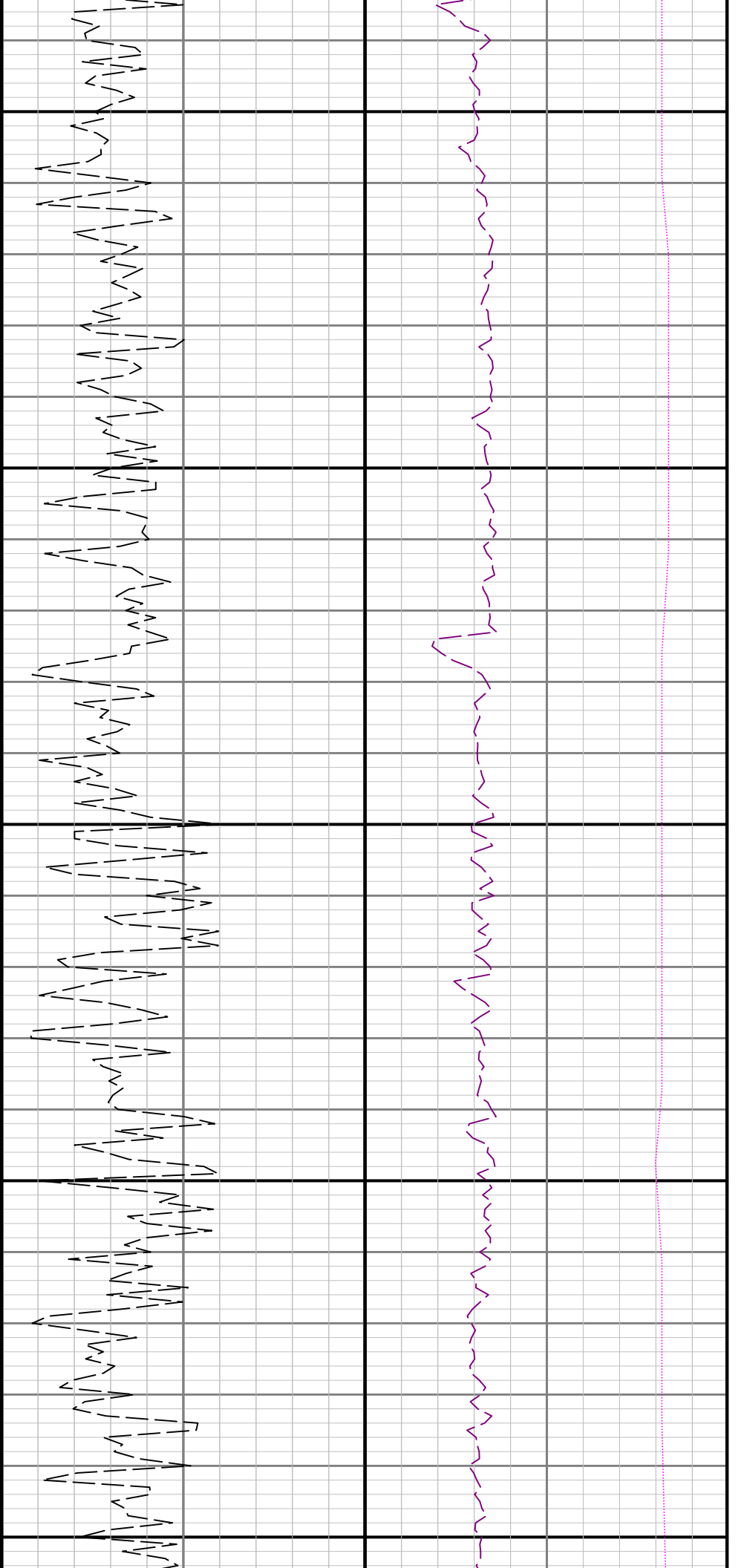




12300

12400





12500

12600

