



LWD MEMORY LOG

Gamma Ray

Scale:	Company: Clear Creek Resource Partners										
1:240 MD	Well:	True Ranch Fee 502-2326H									
Depth Reference:	Field:	DJ									
Driller's Depth	County:	Weld	Country: United States								
	State:	Colorado									
Status:	Final Print	Surface Location:				Other Services:					
API No:	05-123-47413-0000	Latitude:				040° 59' 55.356" N					
Job ID:	109446324	Longitude:				104° 37' 24.384" W					
Permanent Datum (P.D.):	Ground Level	Elevation:	5852.34 ft	Elev. KB:	N/A						
Log Measured From:	Rig Floor	Above P.D.	16.00 ft	Elev. DF:	5868.34 ft	Elev. GL:				5852.34 ft	
Dates	Interval Logged				Magnetic Field Reference						
Date From:	2018-11-01	Top: (ft)	N/A	Azi Reference North:	True	Dip Angle: (deg)	67.30				
Date To:	2018-11-08	Bottom: (ft)	N/A	Total Magnetic Field Strength: (nT)			52630				
Spud Date:	2018-11-01			Mag to Reference North Correction: (deg)			8.21 E				
Borehole Record										Casing Record	
Hole Size (in)	From (ft)	To (ft)	Size (in)	Weight (lb/ft)	From (ft)	To (ft)					
13.500	80.00	2138.00	9.625	36.00		0.00	2128.00				
8.500	2138.00	18332.00									
Mud Record										Deviation Record	
Type	From (ft)	To (ft)	Hole Size (in)	Interval (ft)	Inc Az (Start)	Inc Az (End)					
Water Based Mud	80.00	2138.00	13.500	2058.06	0.70 128.48	0.66 187.16	89.78 177.59				
Oil Based Mud	2138.00	18332.00	8.500	16184.47	0.66 187.16						
Acquisition System										Software Version	
Baker Hughes Cadence	RT 4.2	Rig:	Aktia 524	Contractor:	Aktia Drilling	Unit:	D&E				
Plot Studio	4.2.8155.1	District:	R.M.A.								

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Log Run Summary

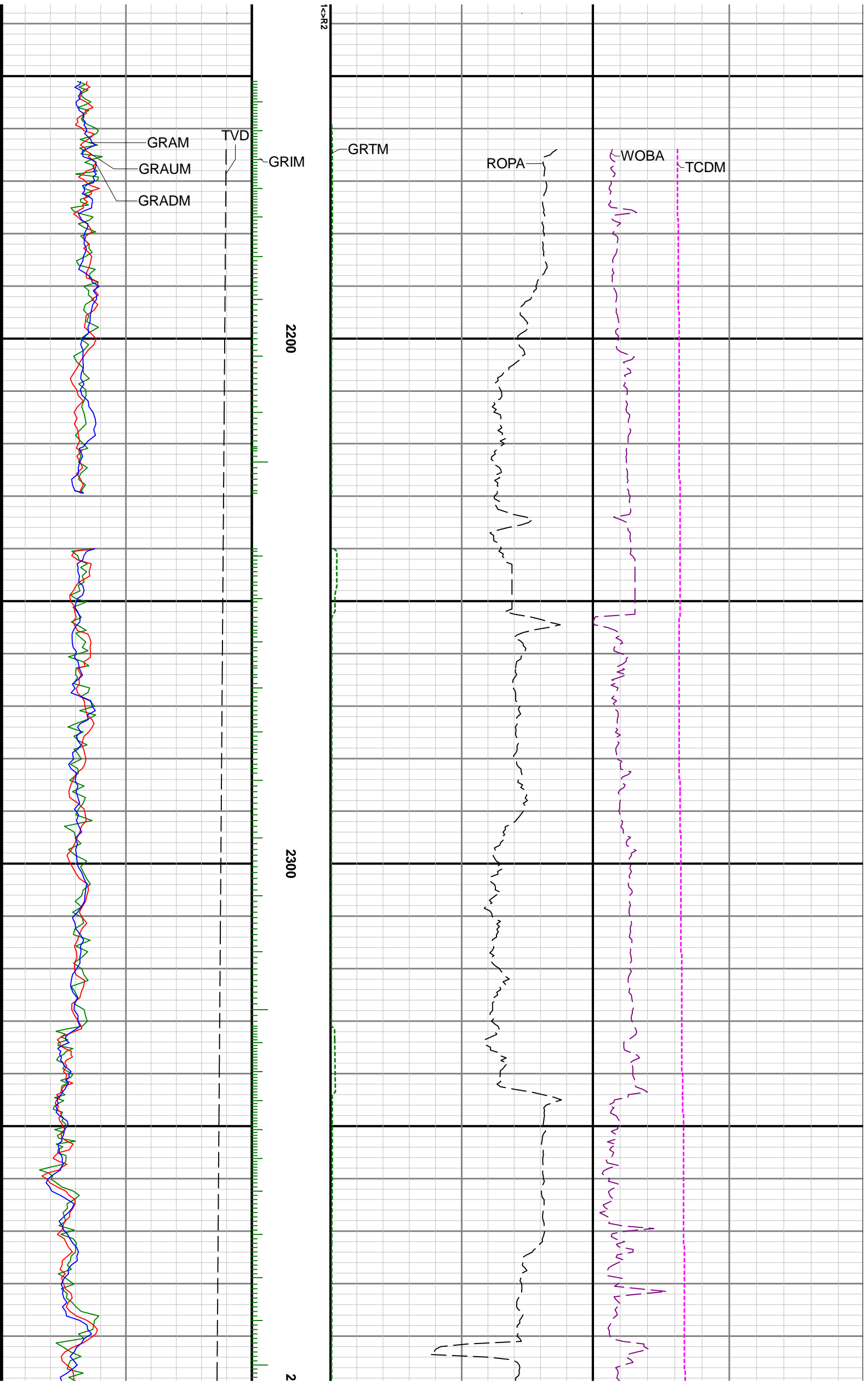
Run No	Bit Run No.	Bit Size (in)	Bit Type	Bit Gauge Length (in)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Hours (h)
						Top	Bottom	From	To	Start Logging	End Logging	
						(ft)	(ft)	(ft)	(ft)			
1	1	13.500	PDC	0.35	Steerable	0.00	0.00	80.00	2138.00	N/A	N/A	11.53
2	2	8.500	PDC	3.50	AutoTrak Curve	2138.00	18318.00	2138.00	18332.00	2018-11-03 08:50	2018-11-08 01:27	100.53

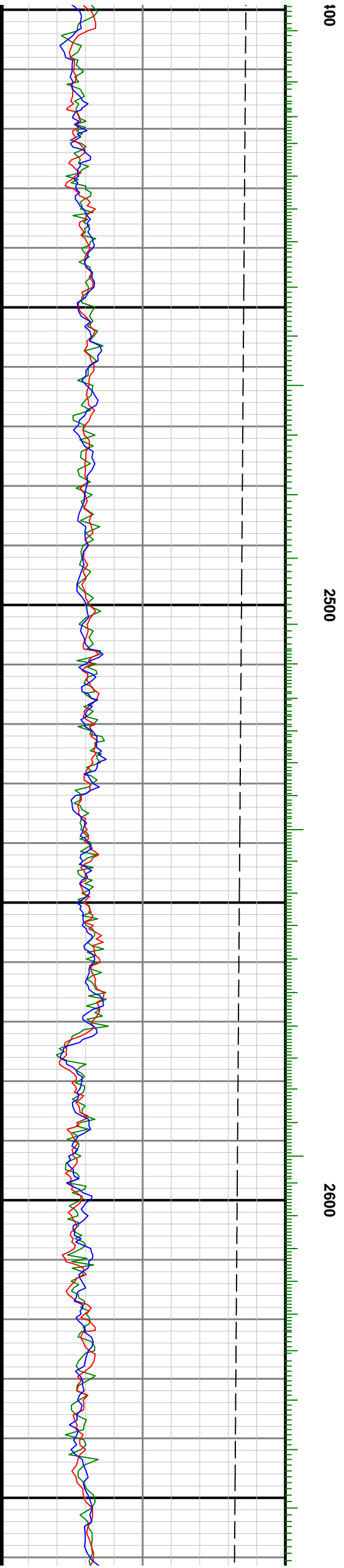
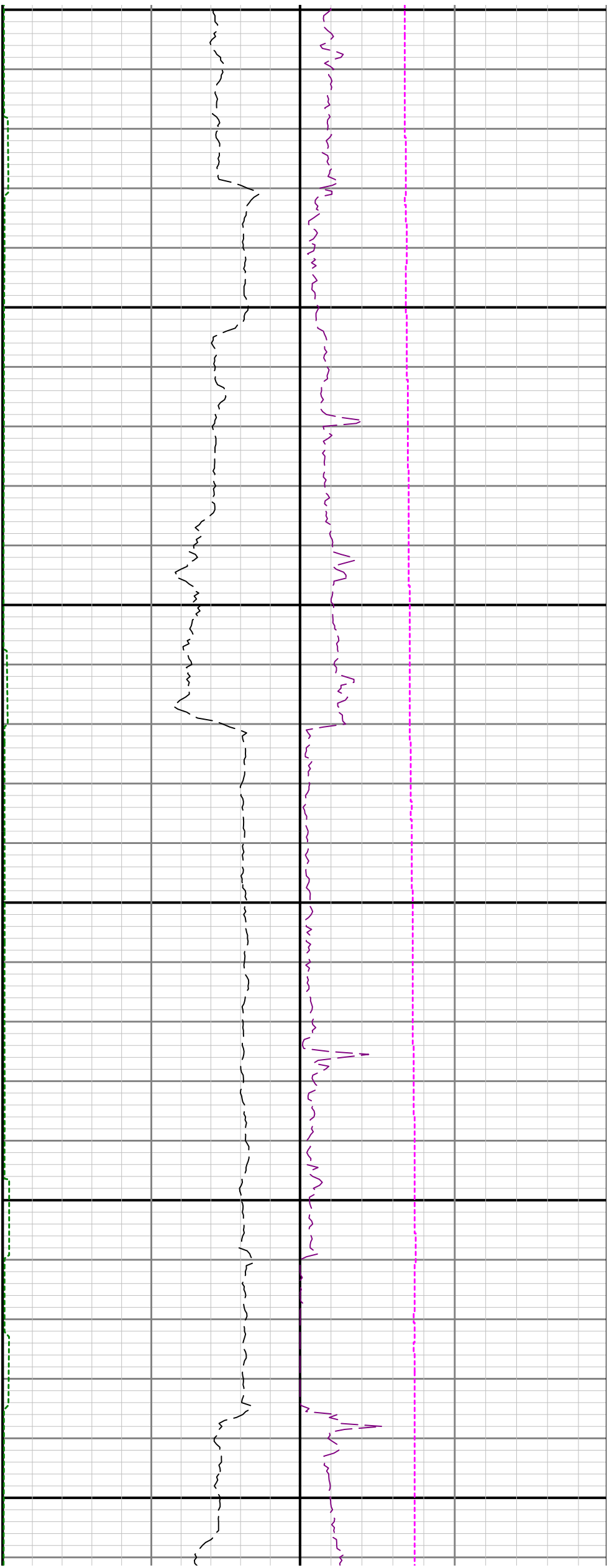
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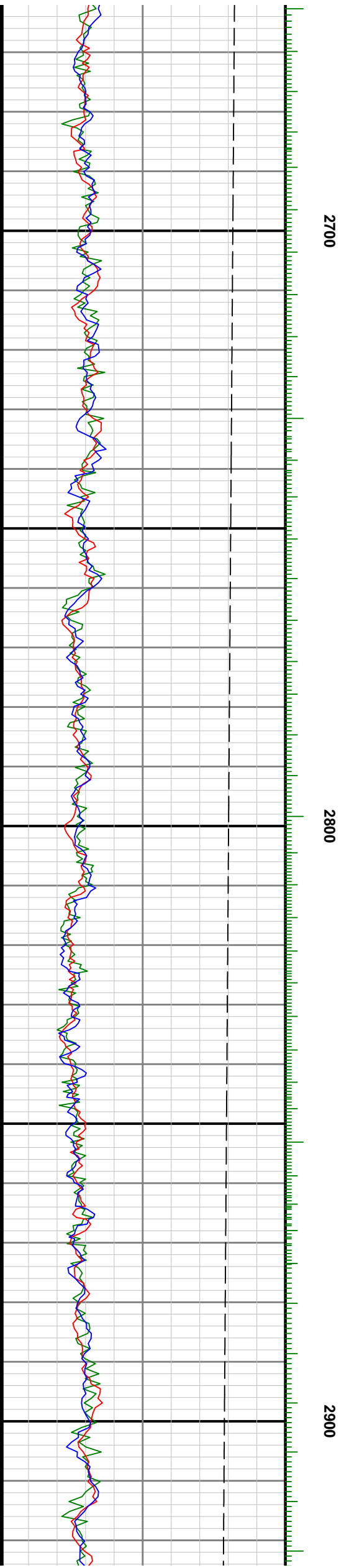
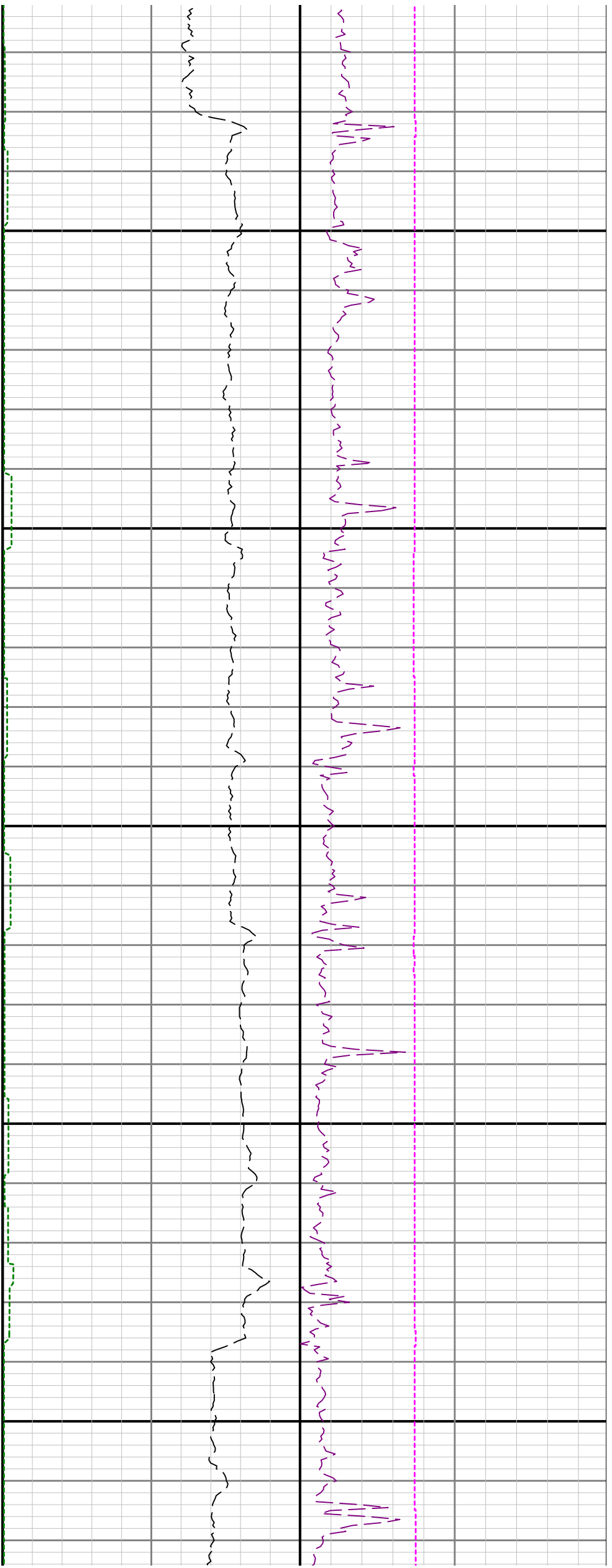
Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Kent Hopkins	2018-11-01	2018-11-04	Alain Atemoh	2018-11-04	2018-11-08			

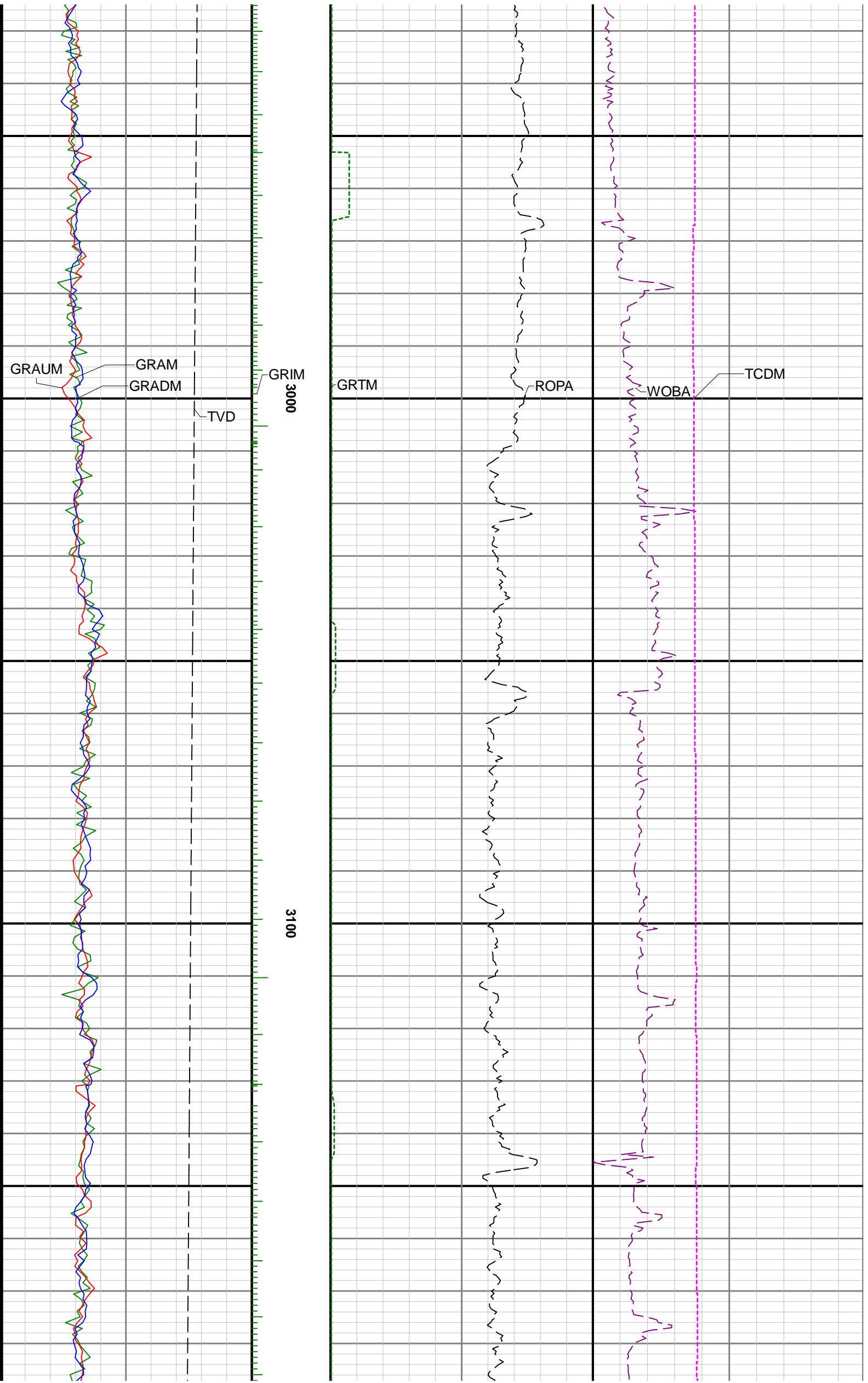
Mud Properties Record

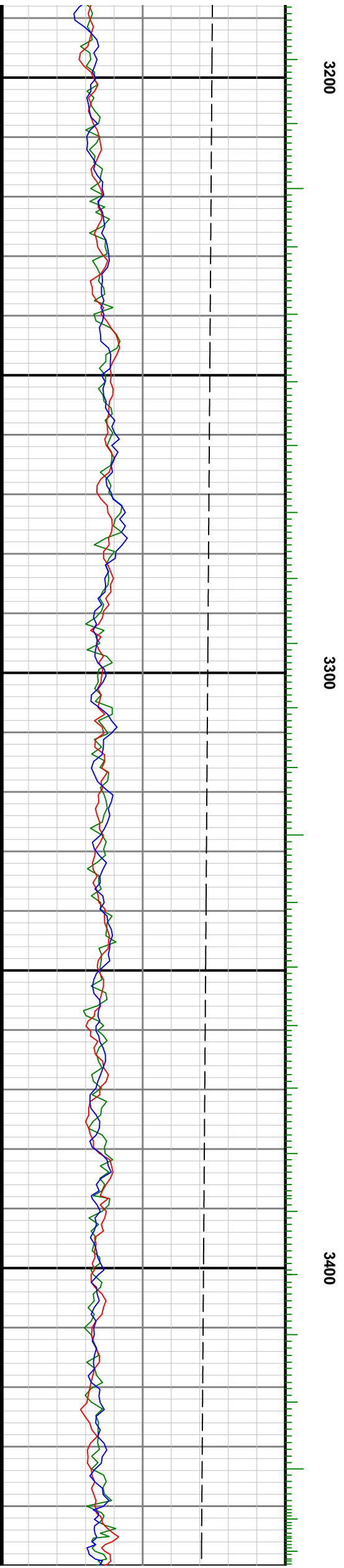
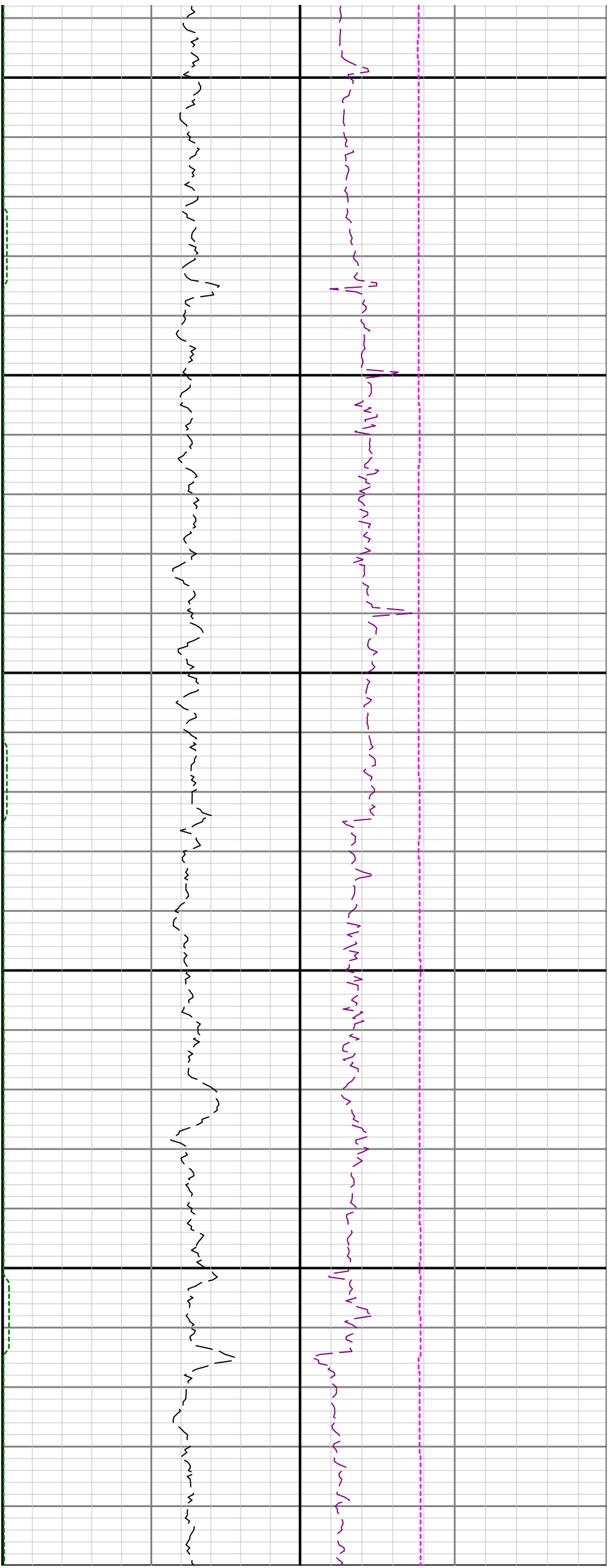
Date / Time	Run No.	Measured Depth (ft)	Mud Type	Density (ppg)	Viscosity (cP)	pH	Fluid Loss (cm3)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
2018-11-01 09:04	1	1000.00	Water Based Mud	8.3	18	8.9	3.0	1/92	Active Pit	400	0.00
2018-11-03 05:00	2	2138.00	Oil Based Mud	8.8	71	N/A	4.3	80/20	Active Pit	28958	0.00
2018-11-05 13:00	2	7450.00	Oil Based Mud	9.6	17	N/A	4.2	71.5/18	Active Pit	39000	0.00
2018-11-08 00:00	2	12000.00	Oil Based Mud	10.0	16	N/A	4.4	70/17.5	Active Pit	40000	0.00

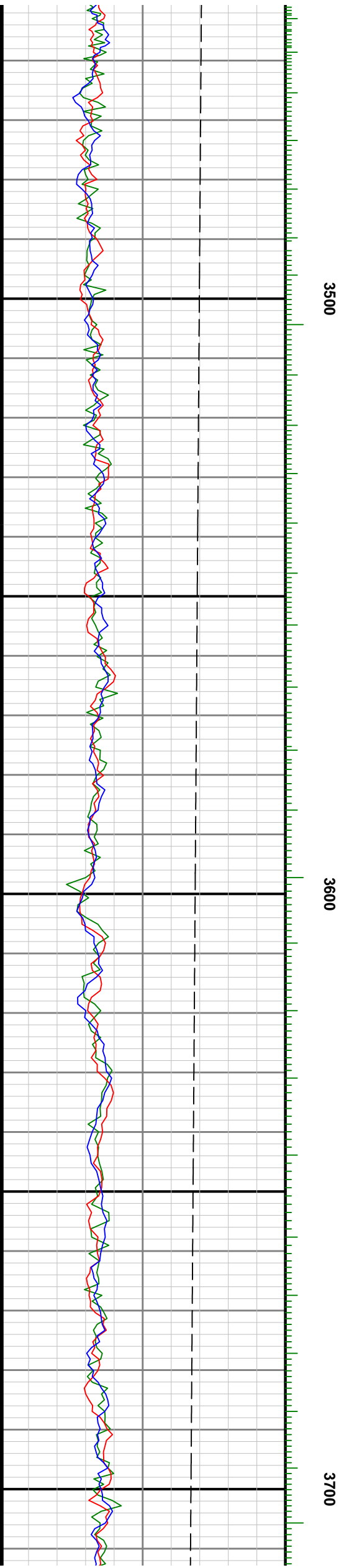
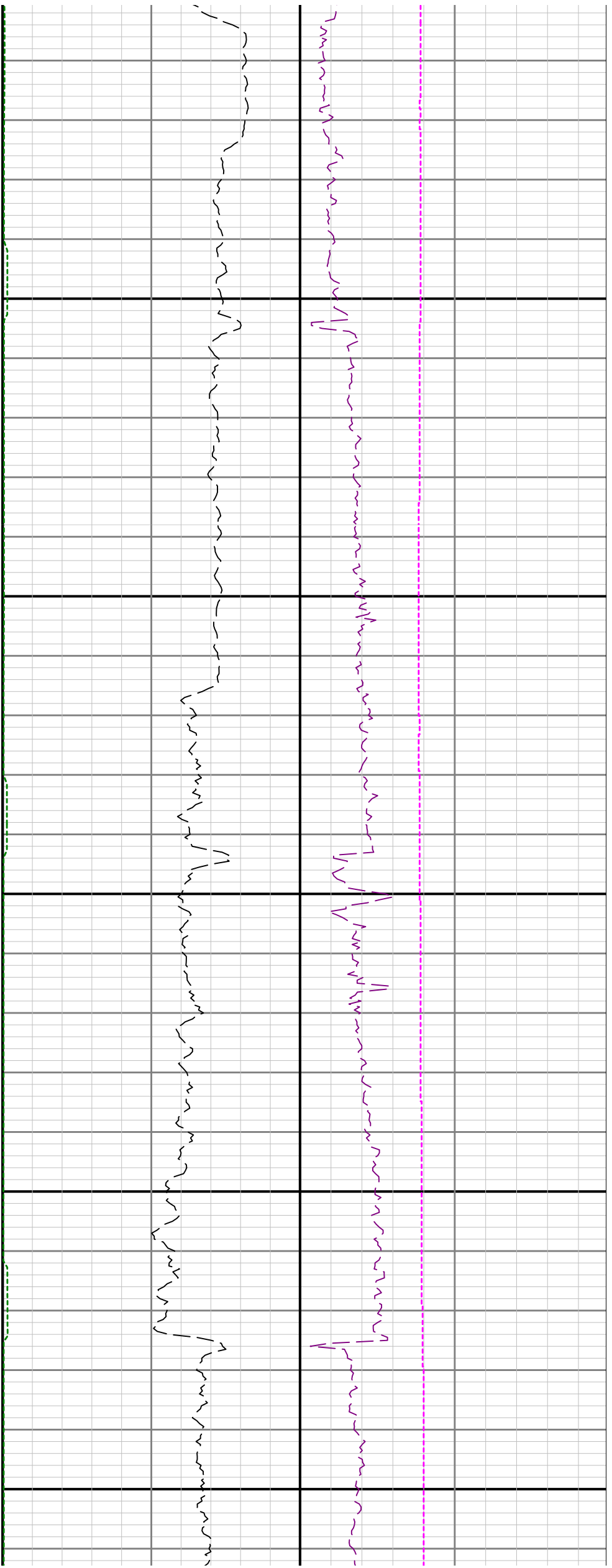


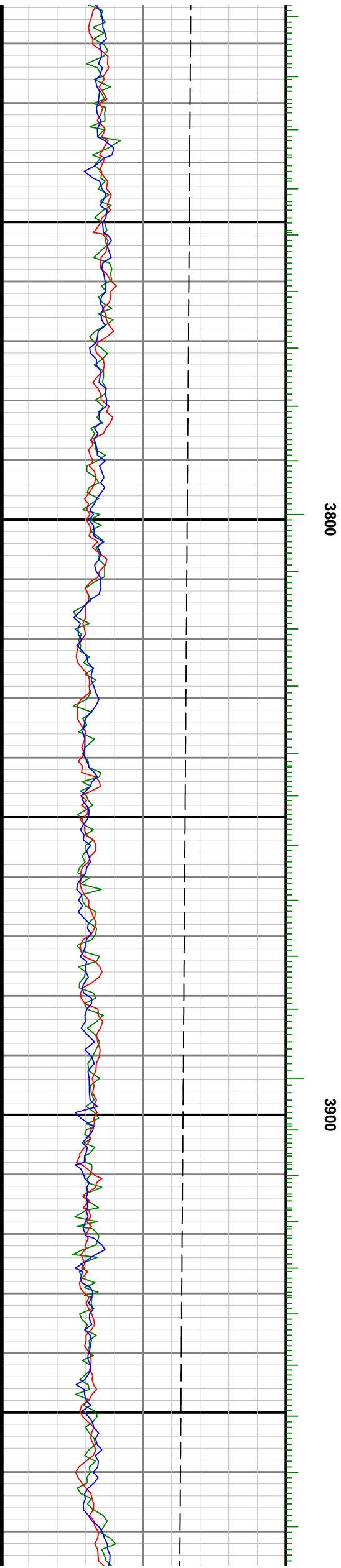
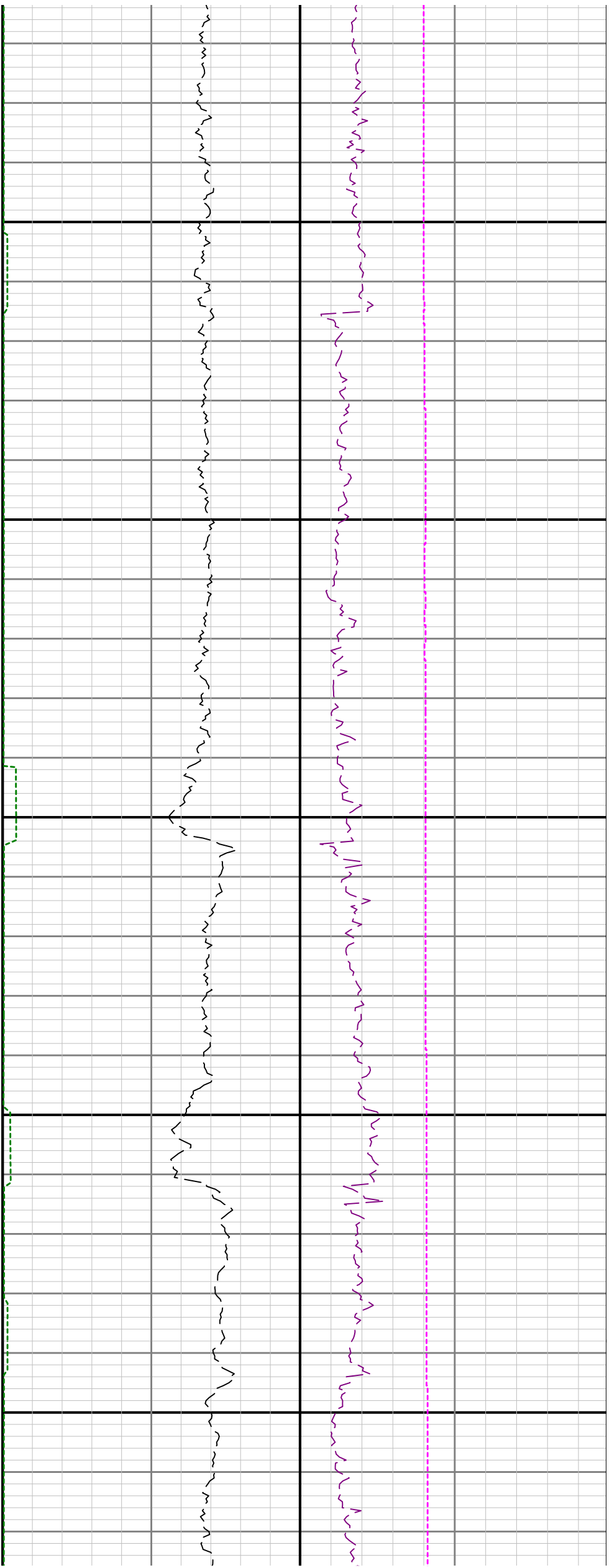


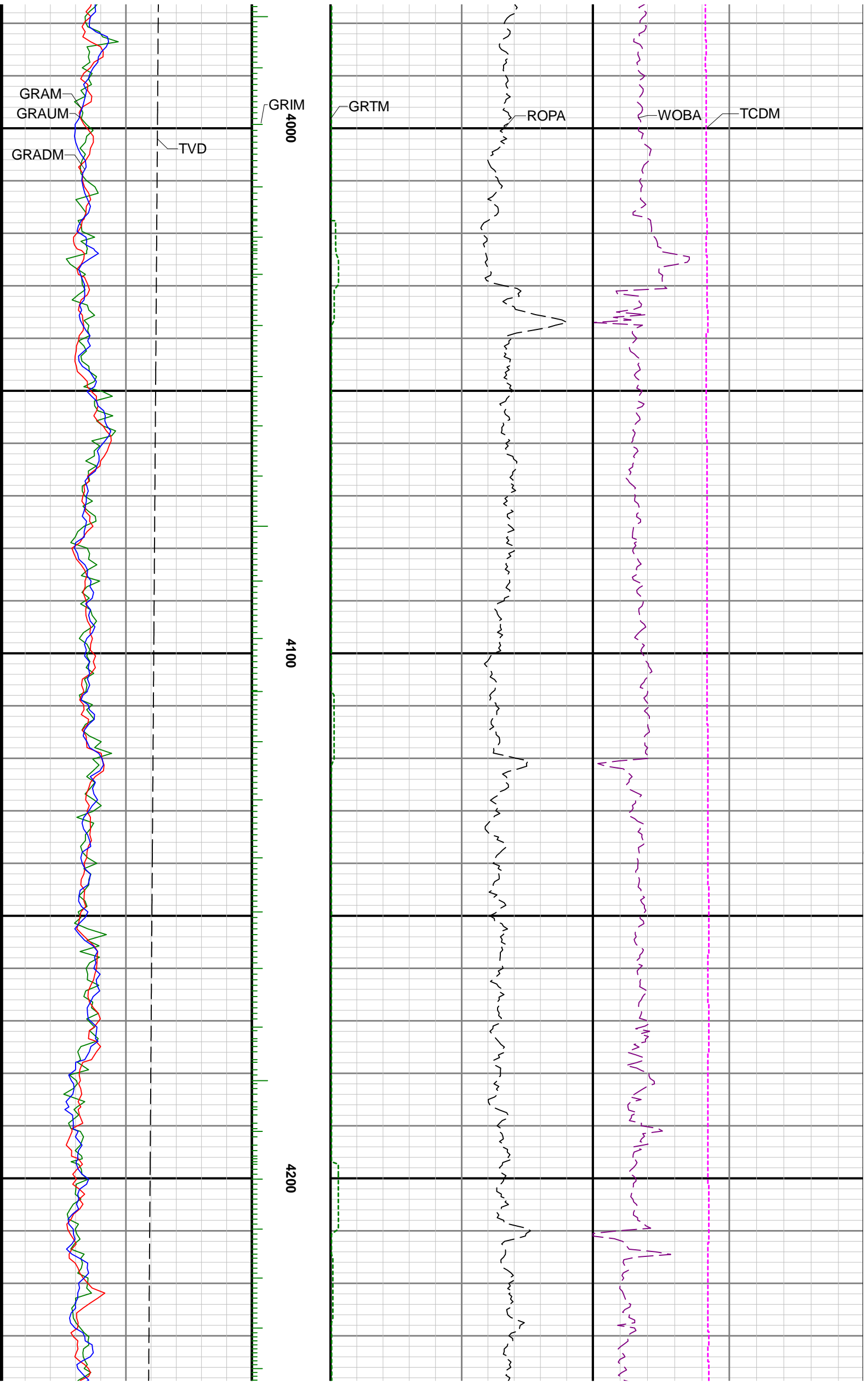


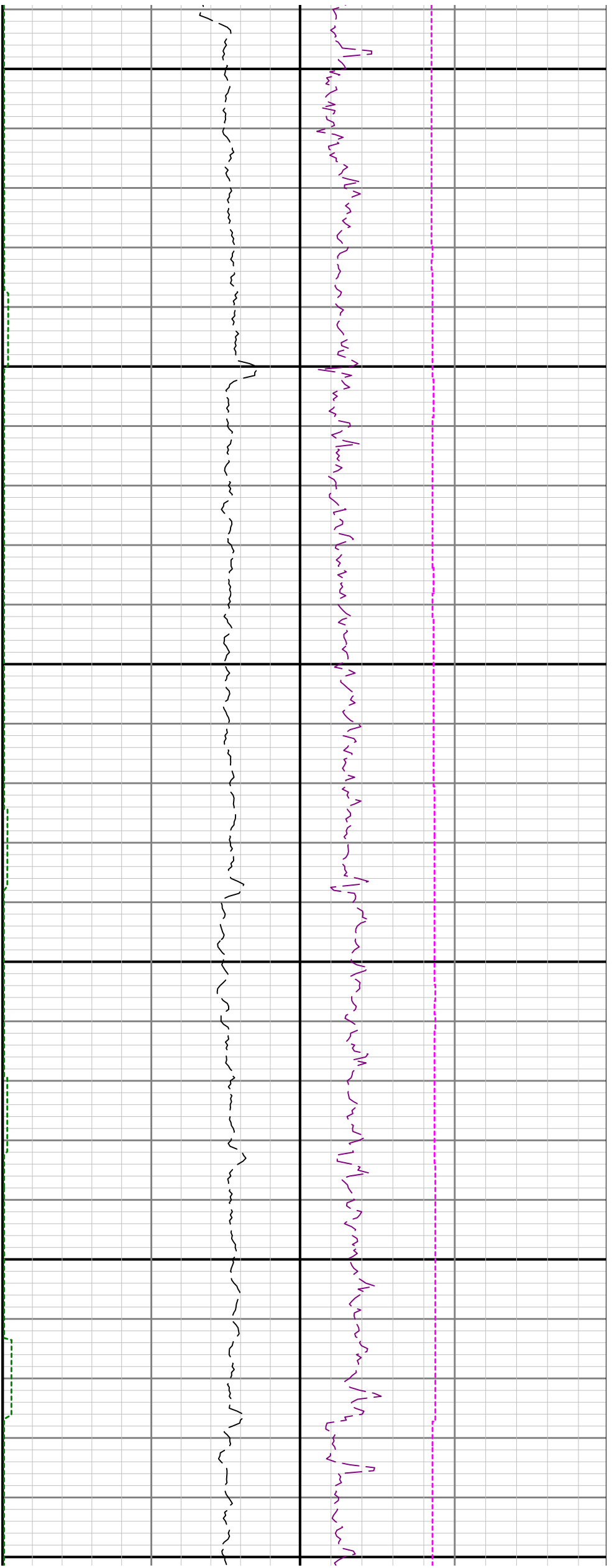








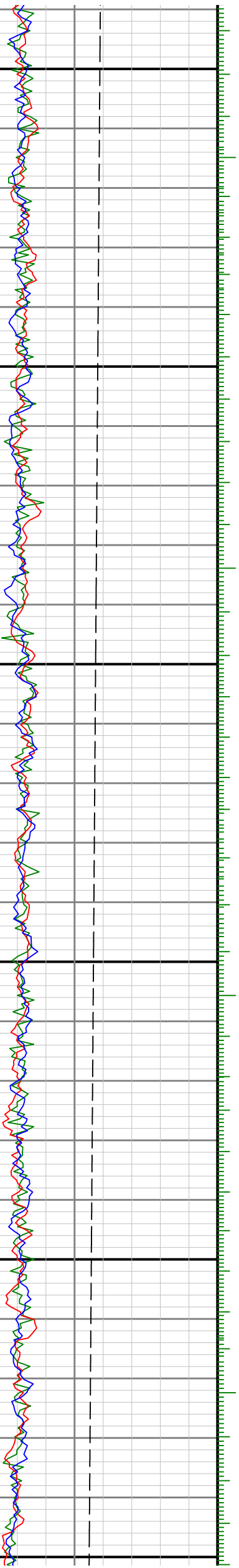


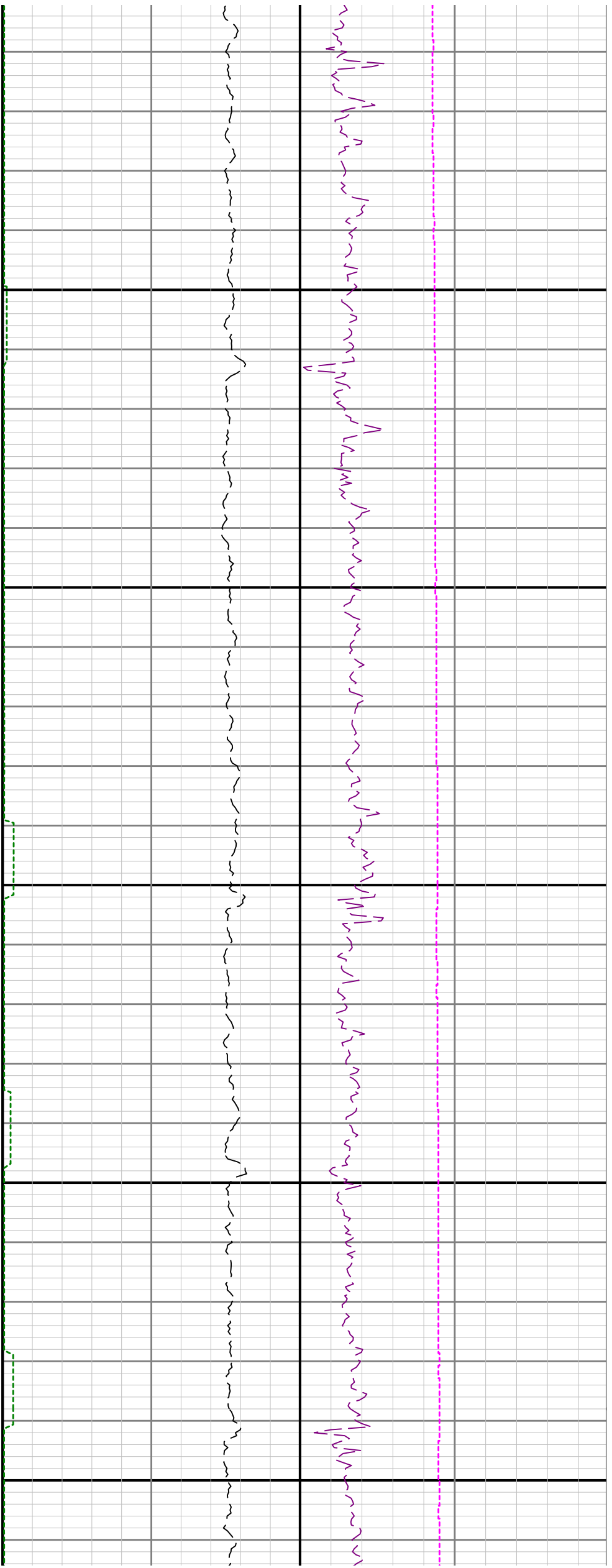


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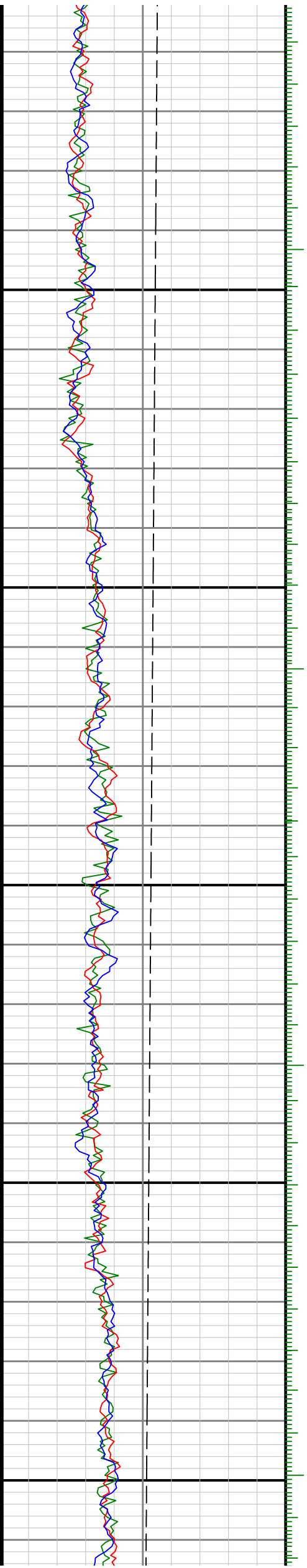
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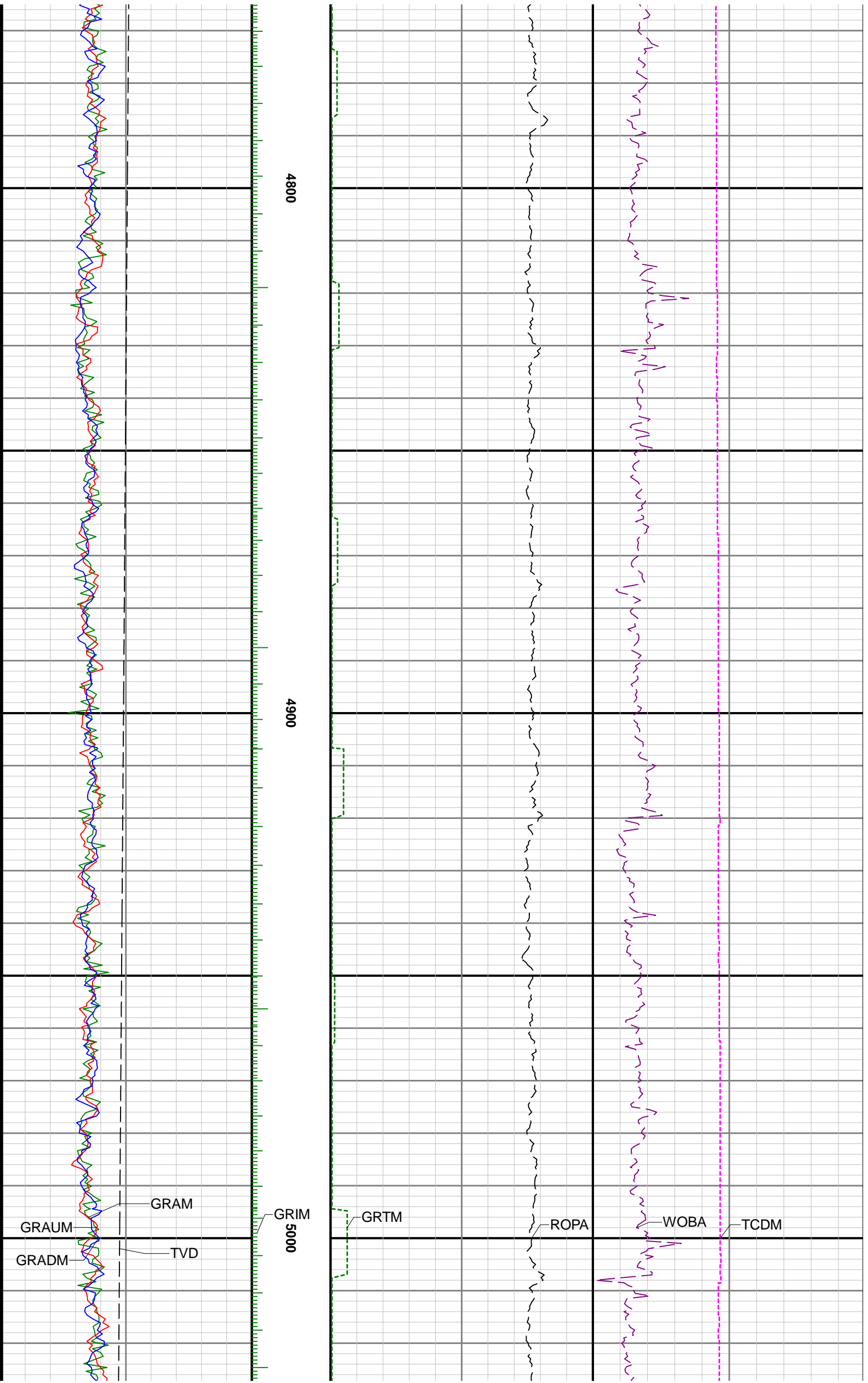


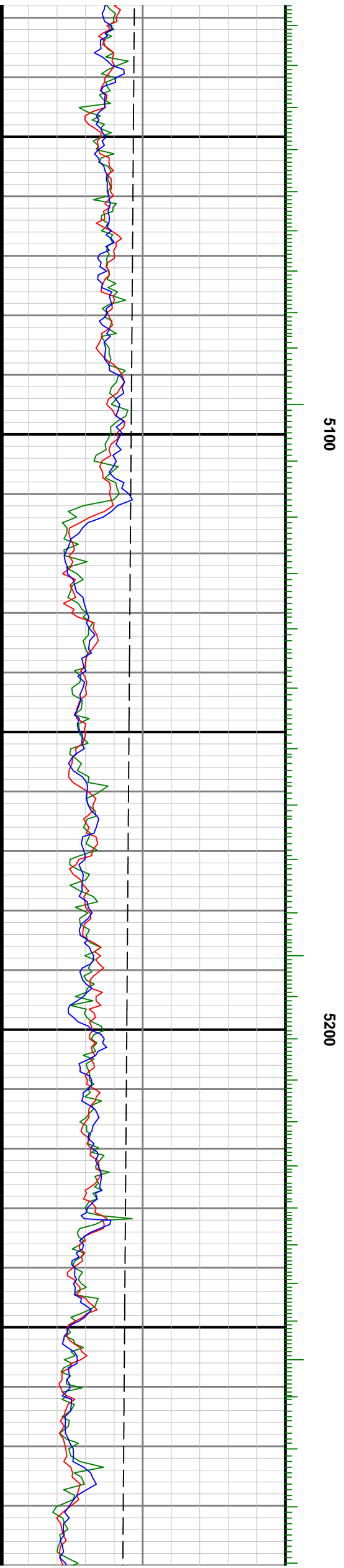
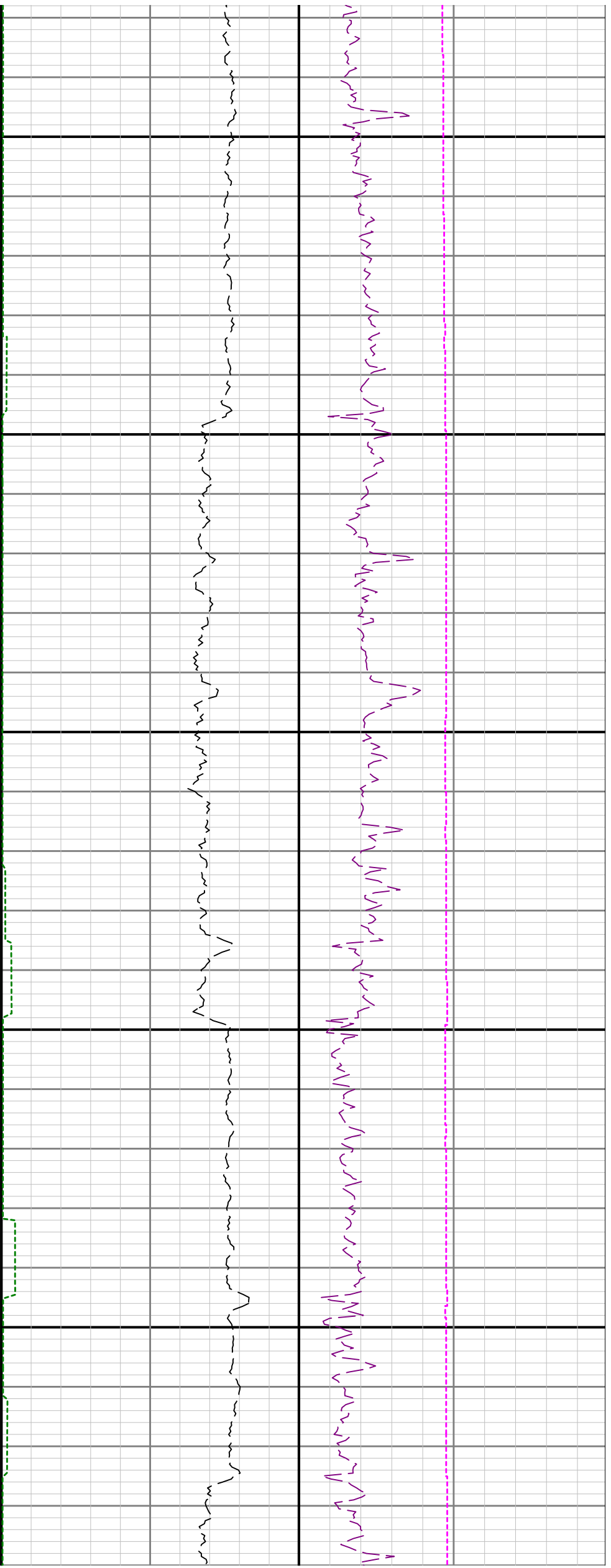


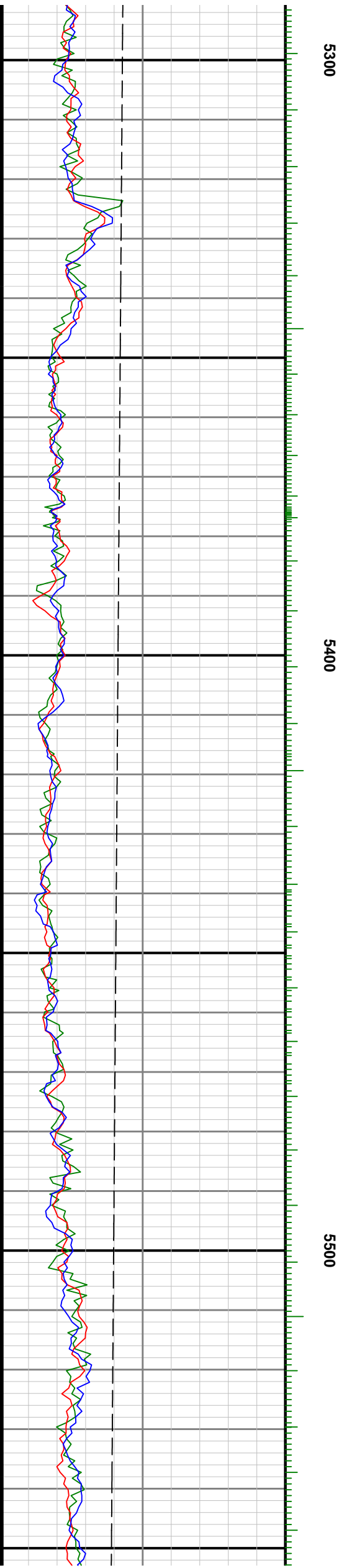
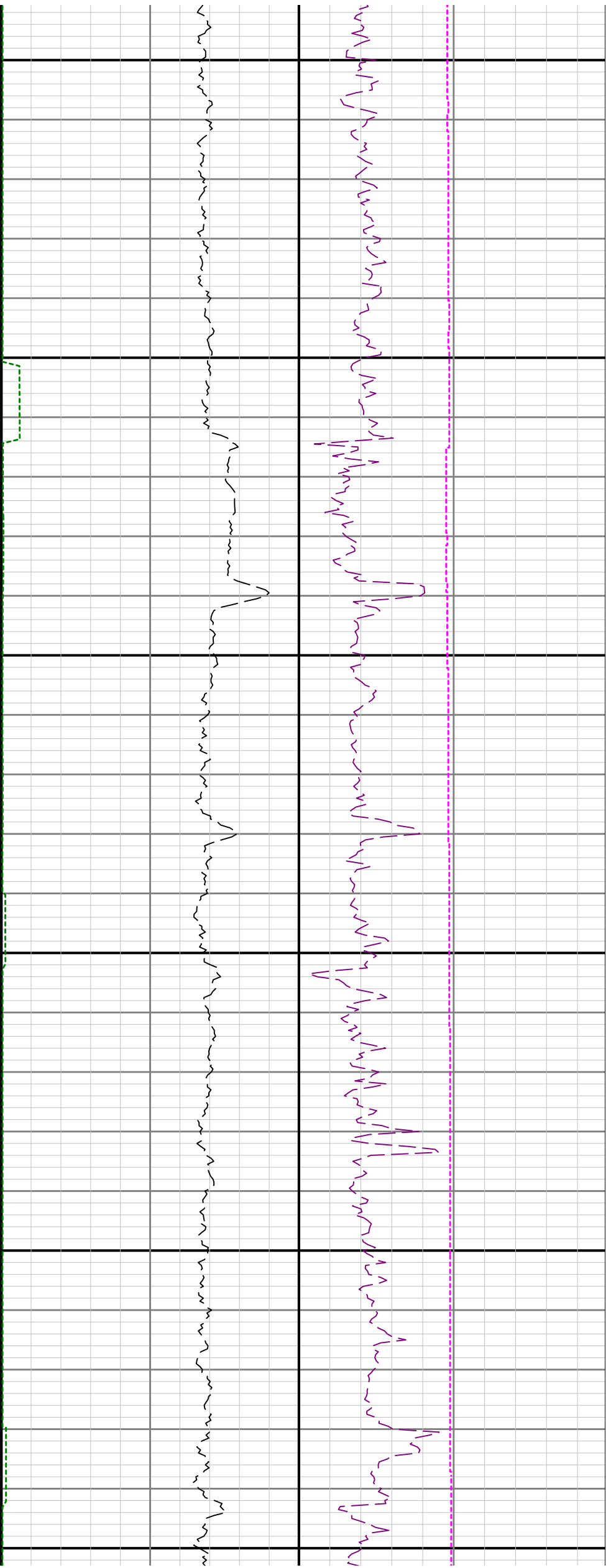
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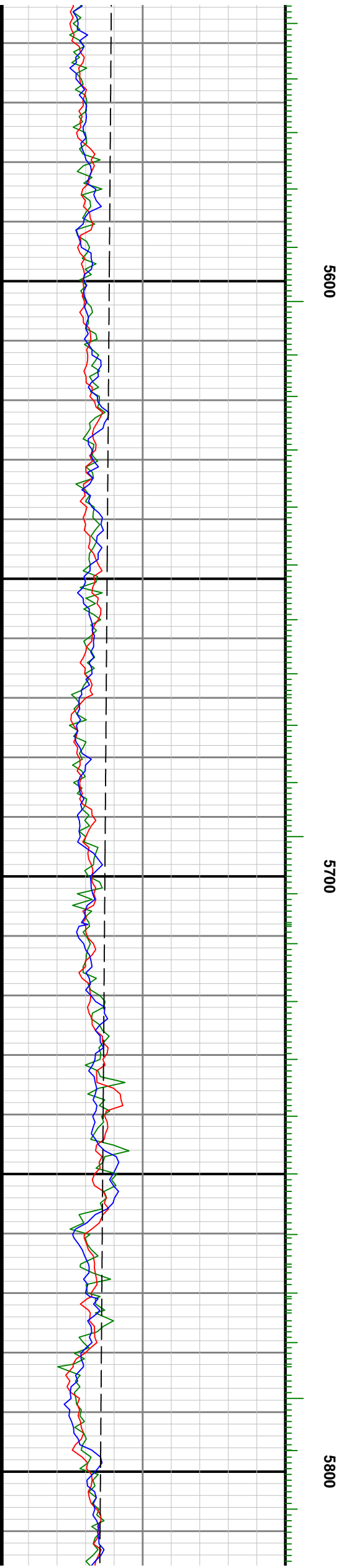
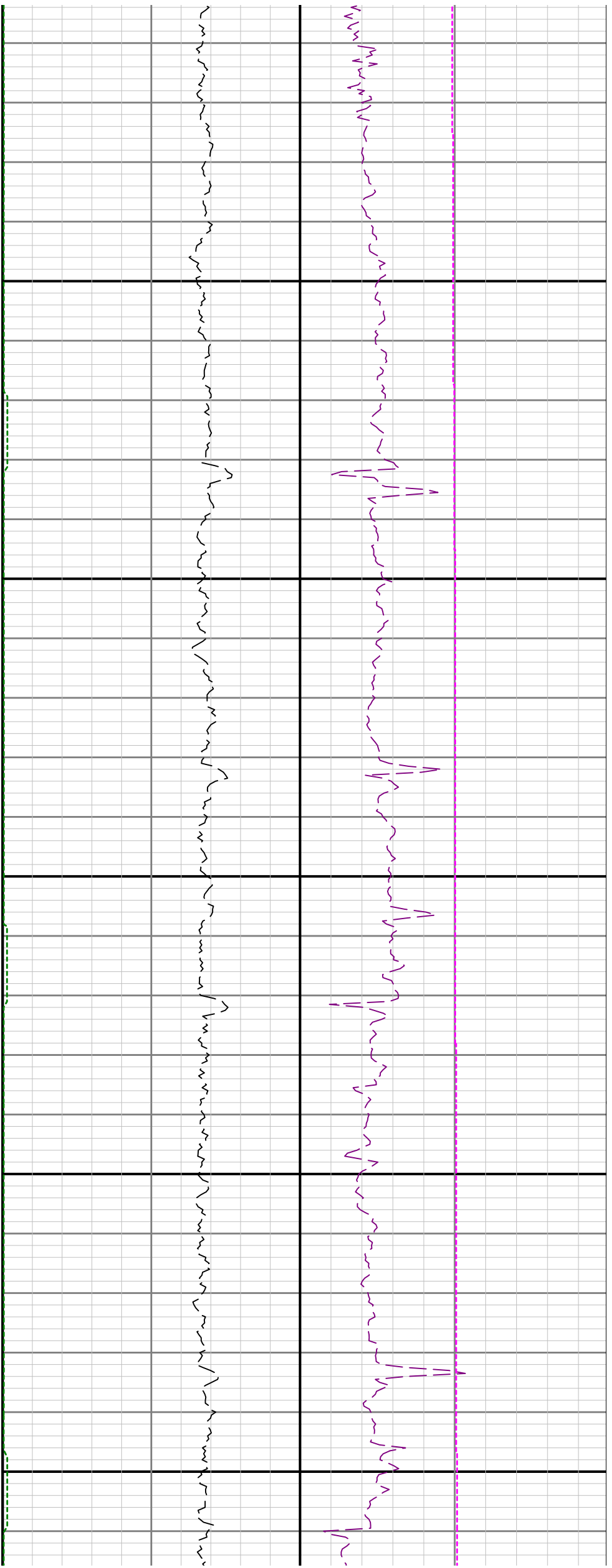
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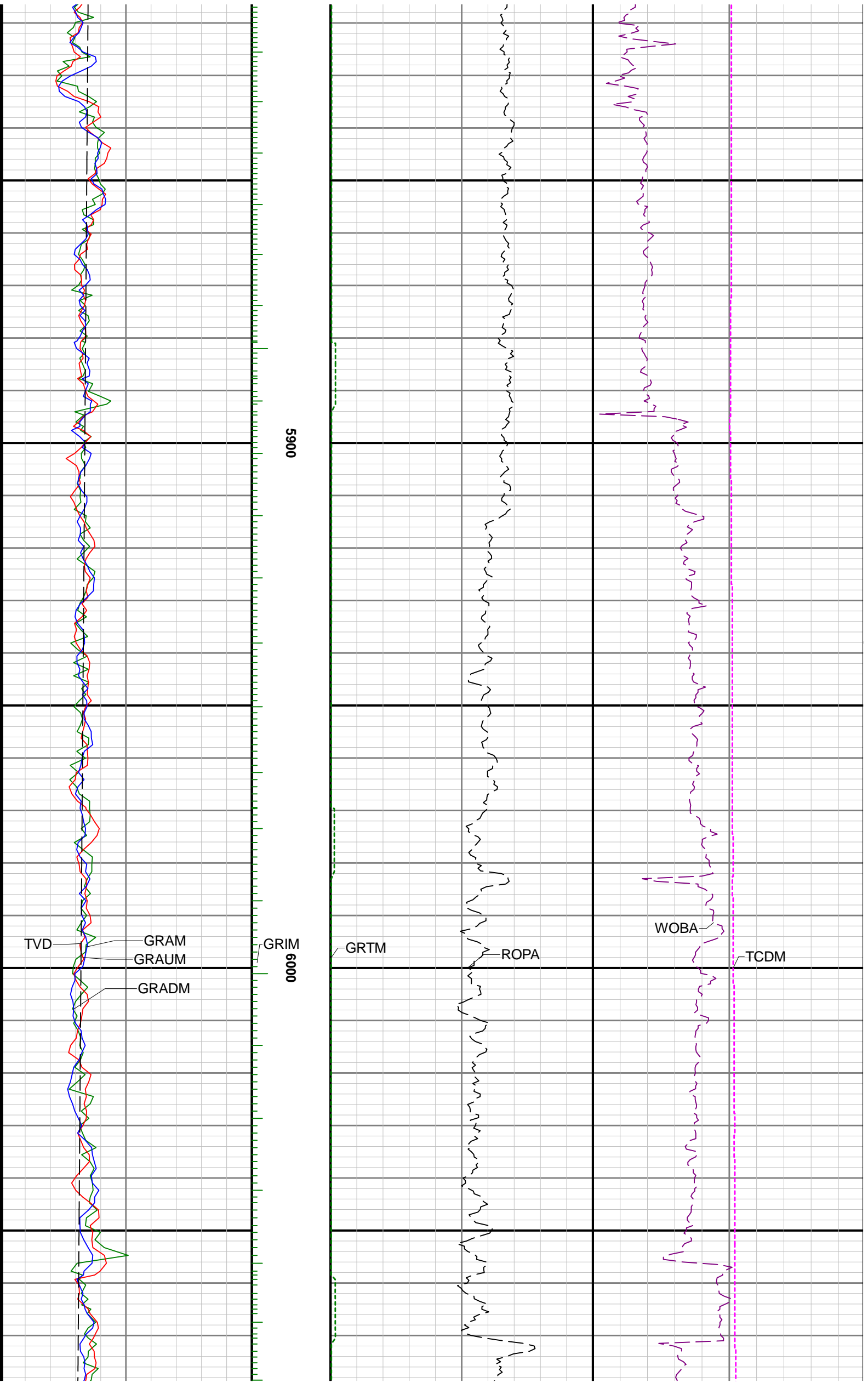


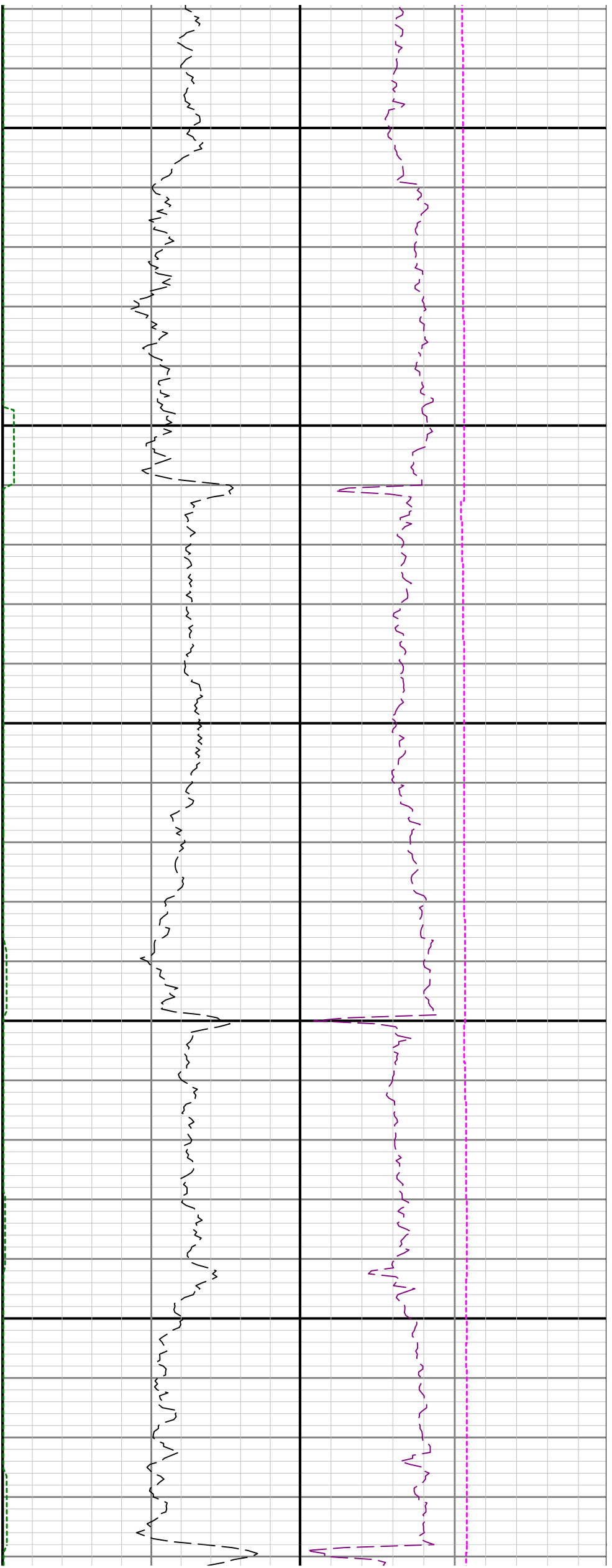








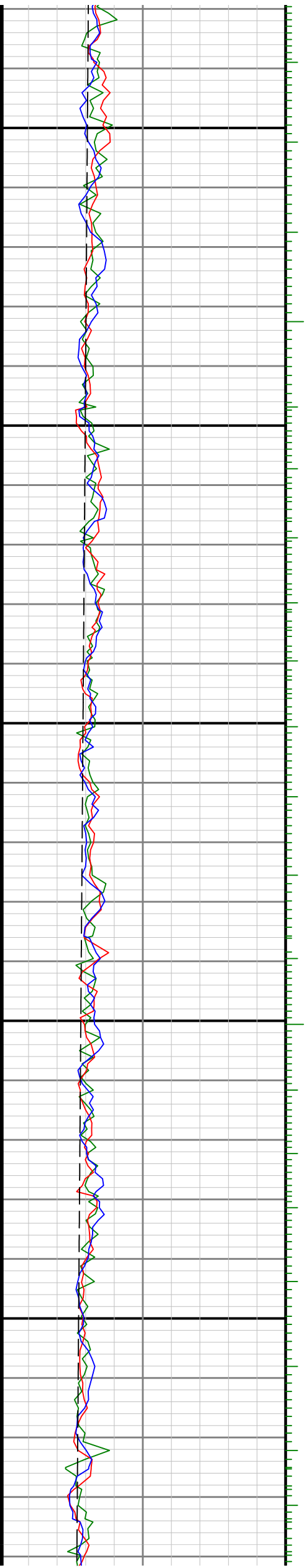


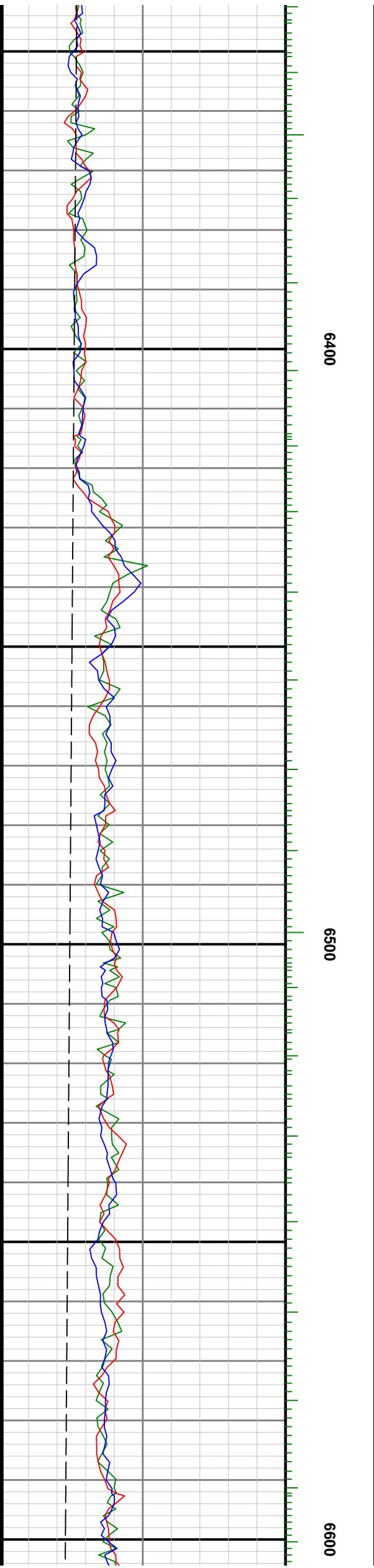
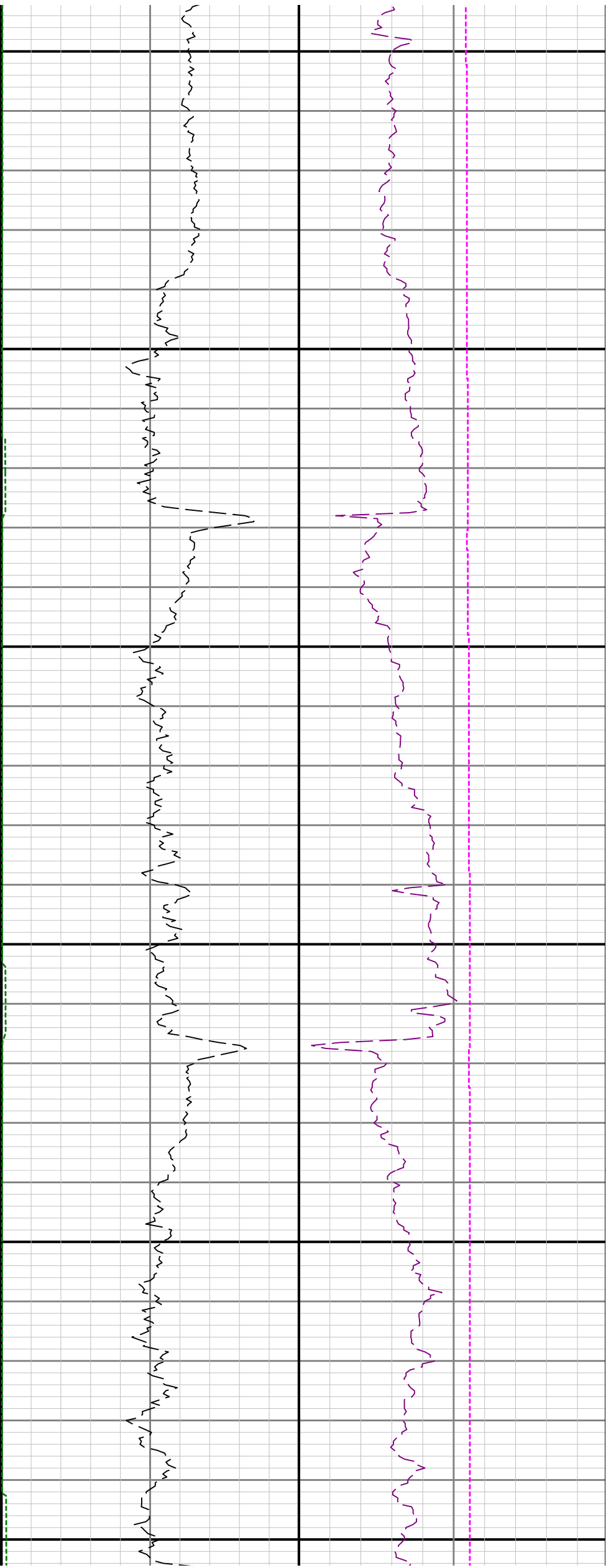


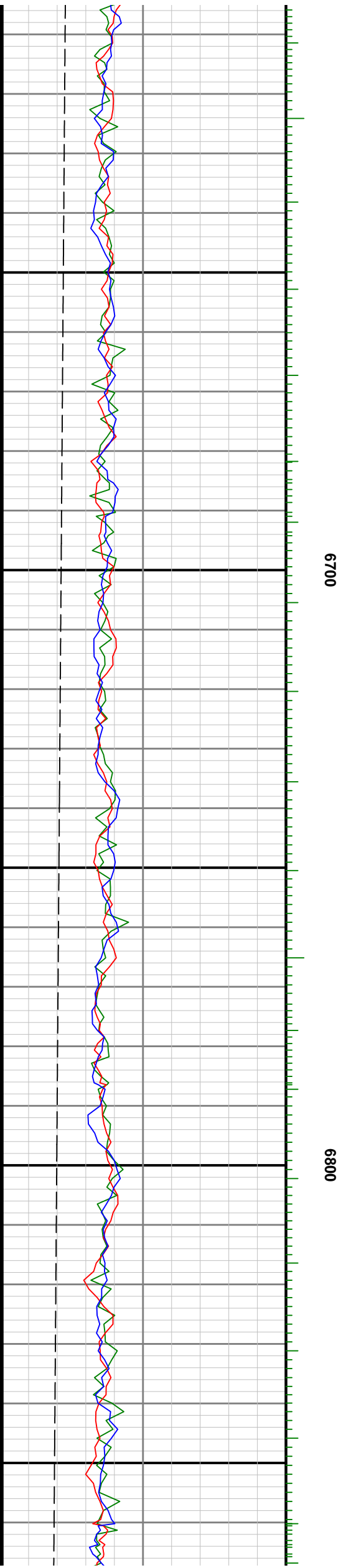
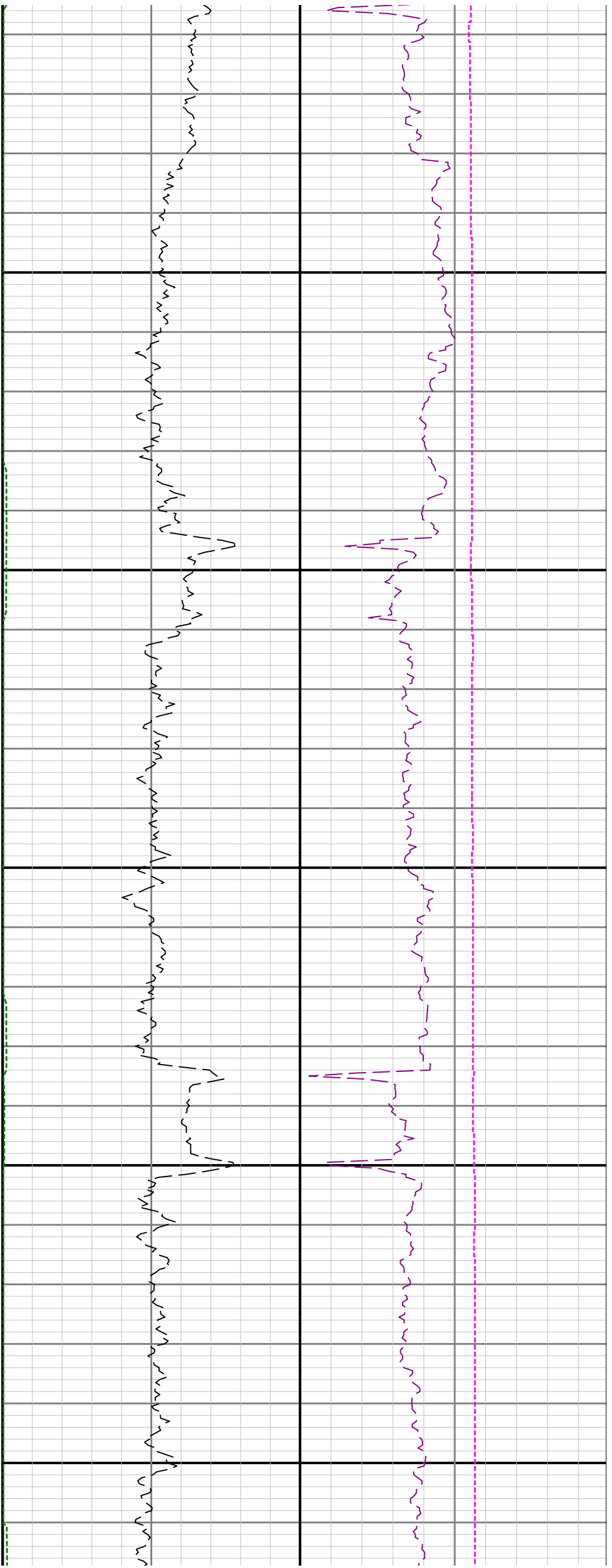
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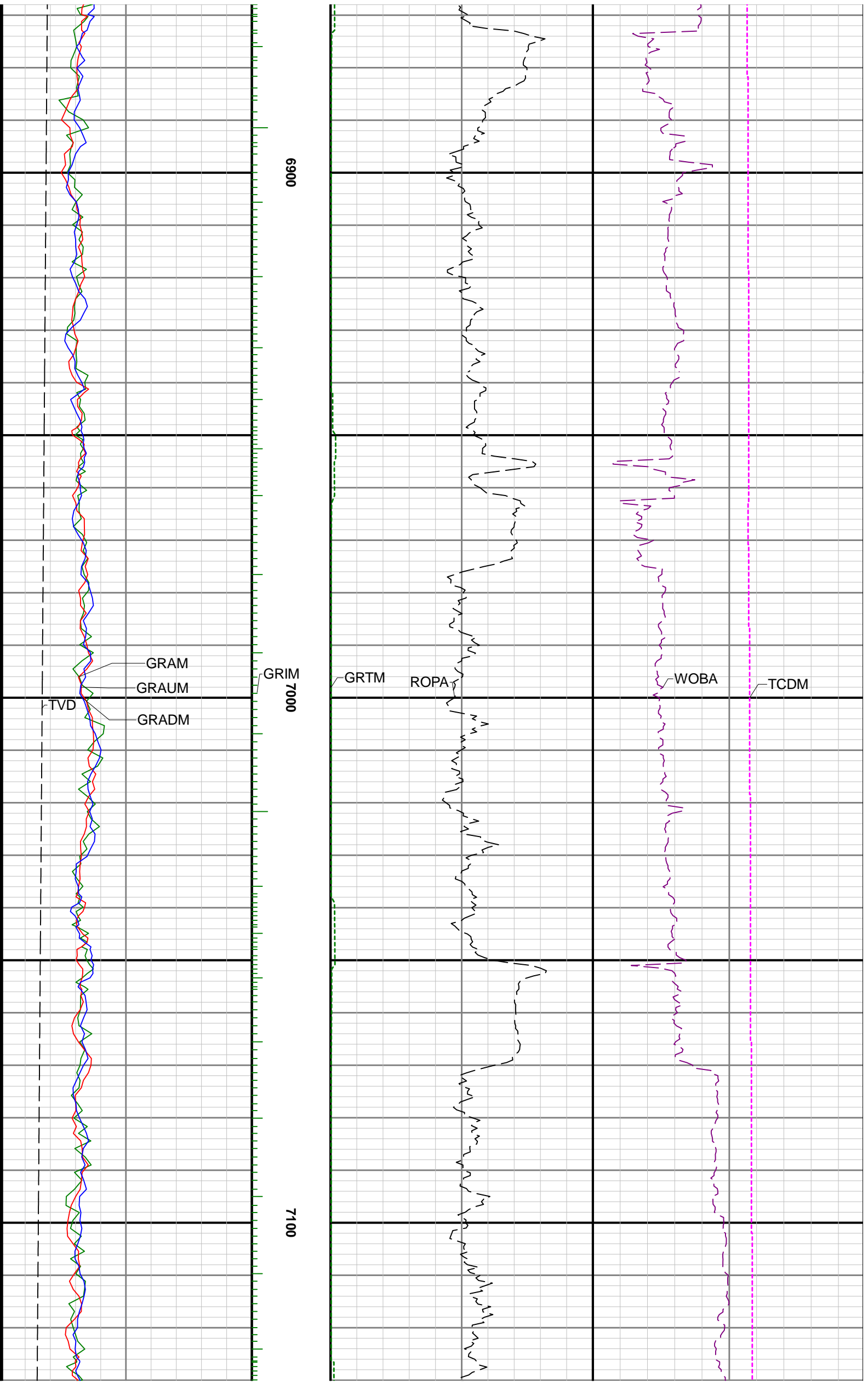
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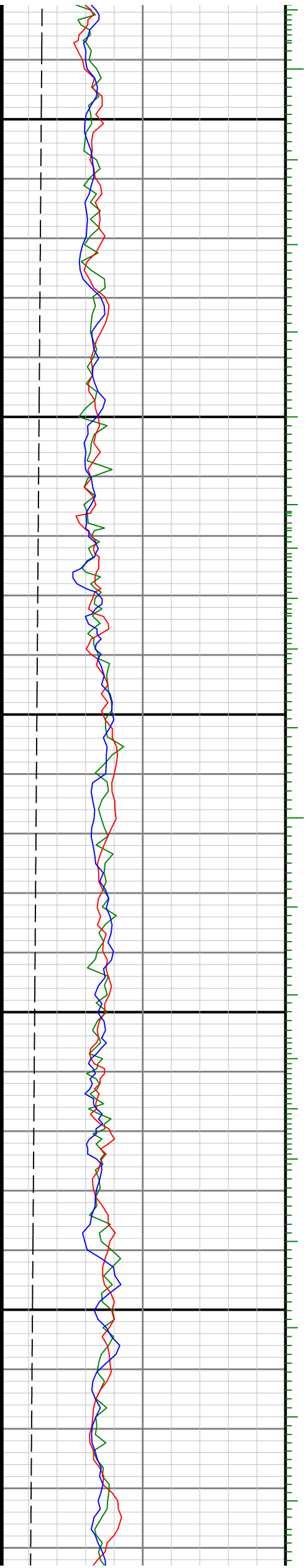
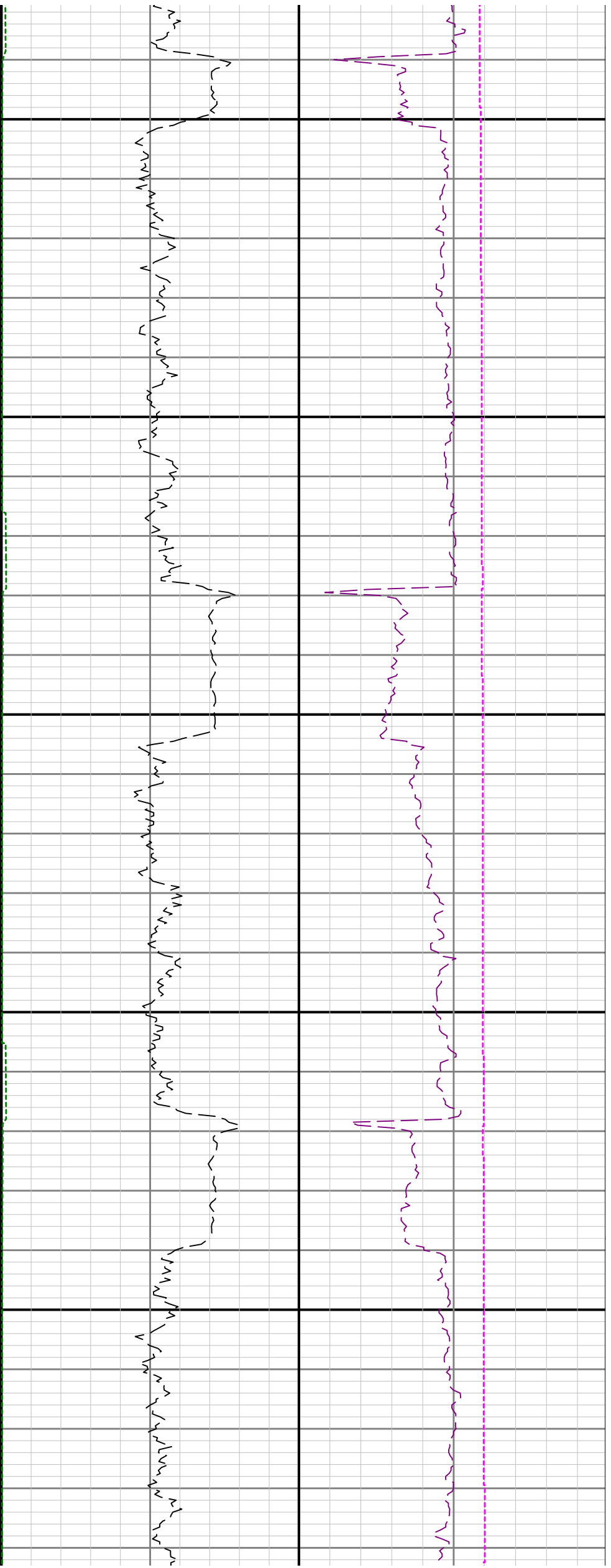
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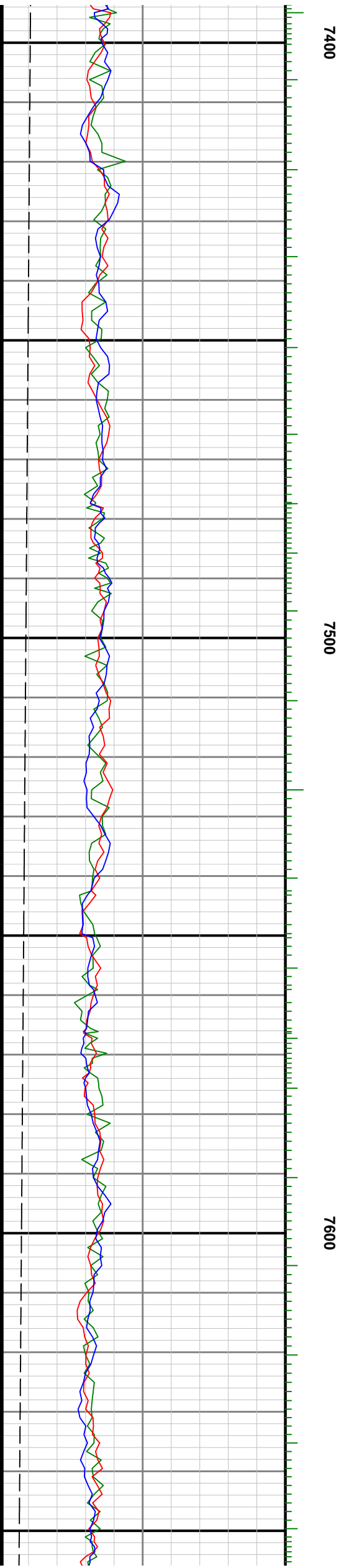


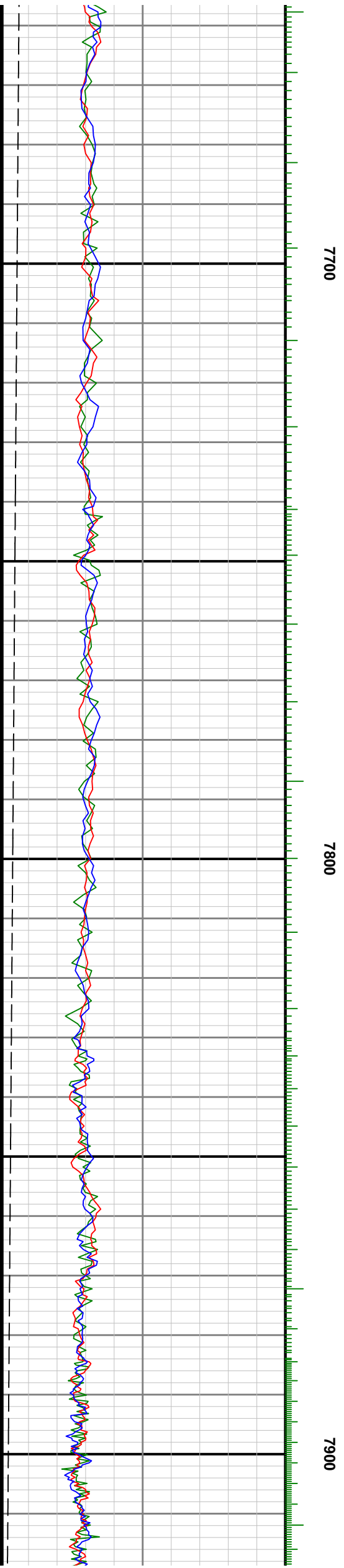
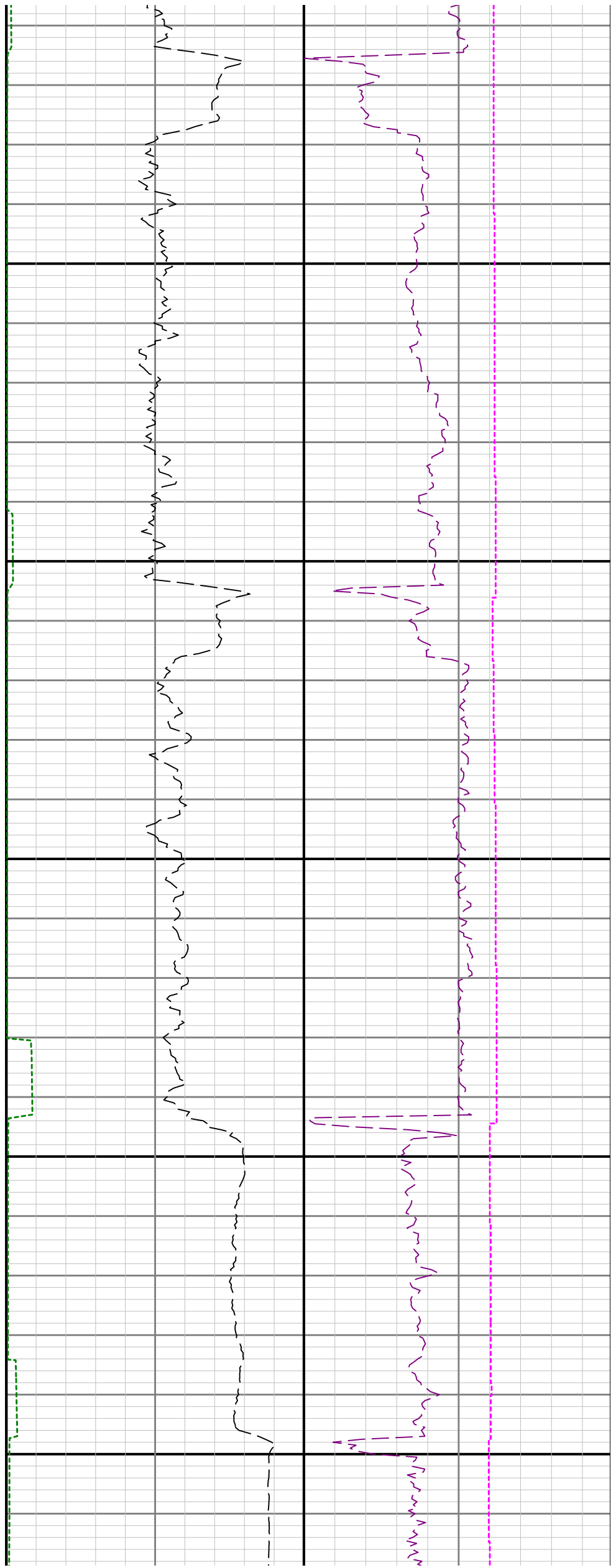


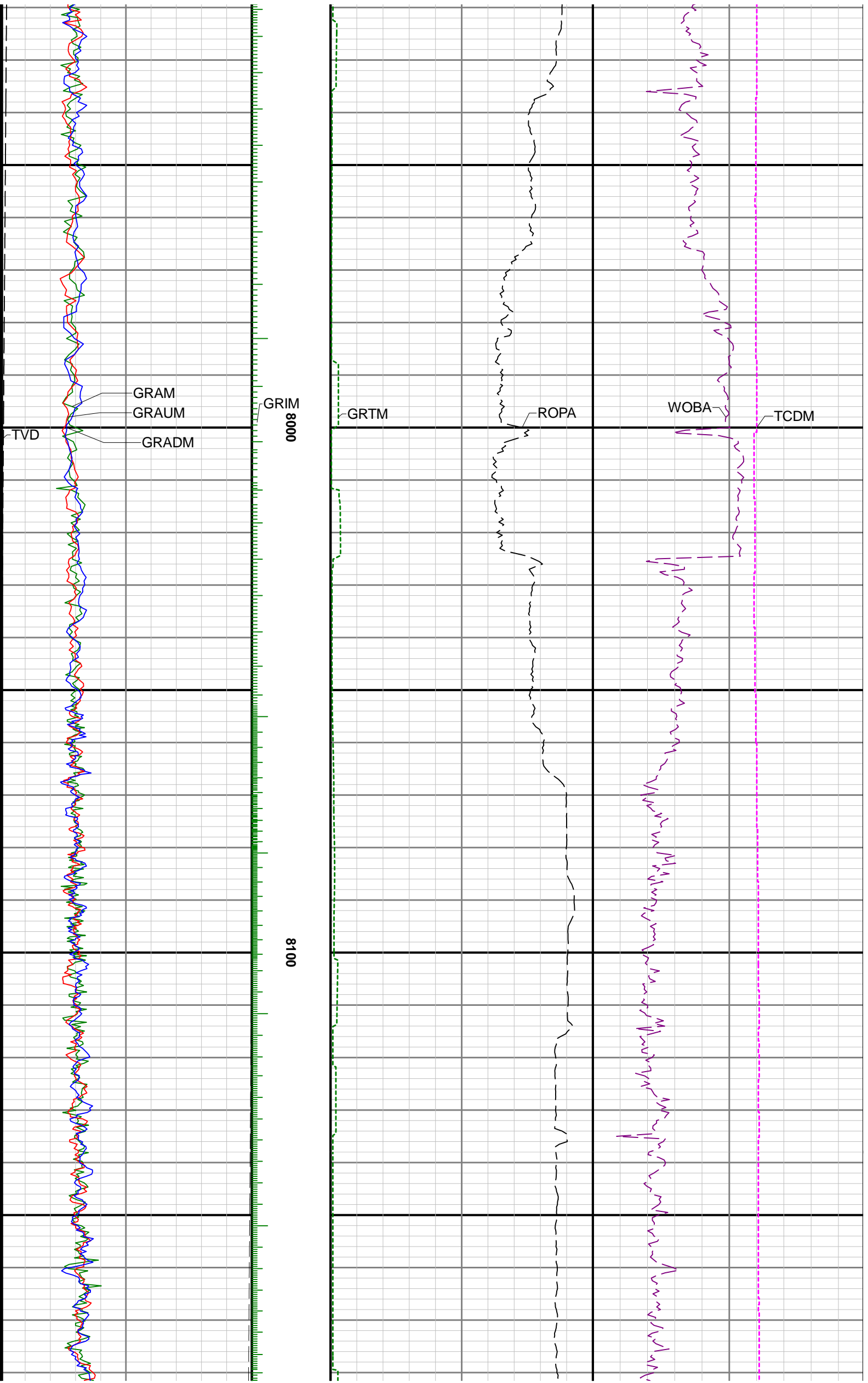


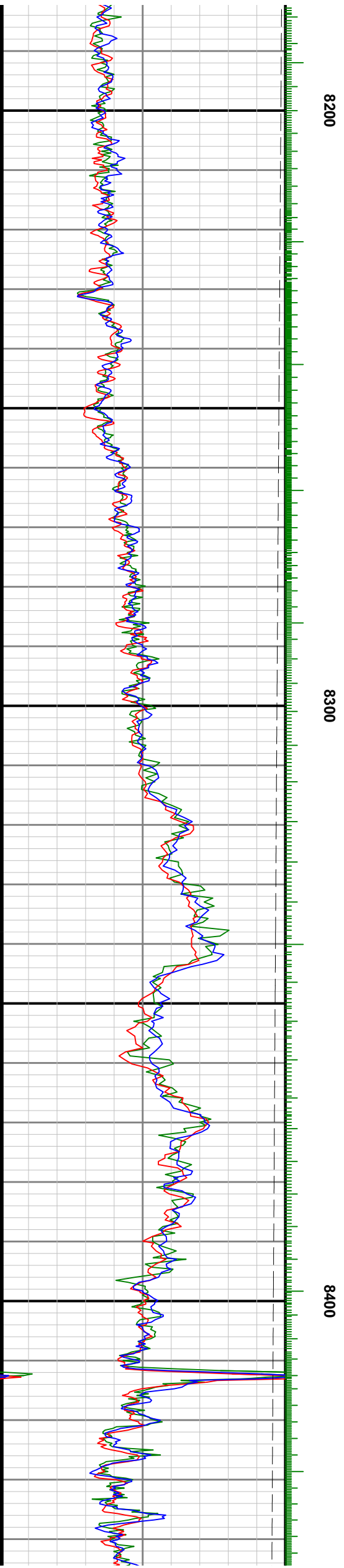
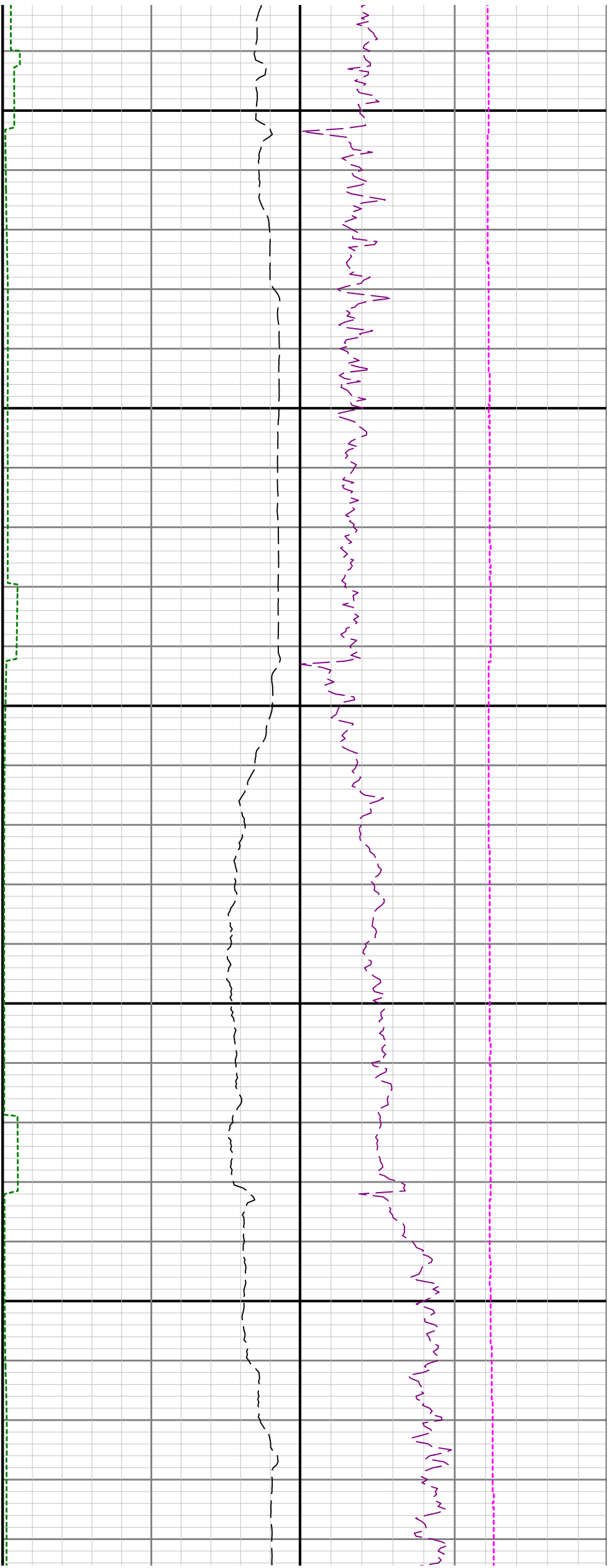


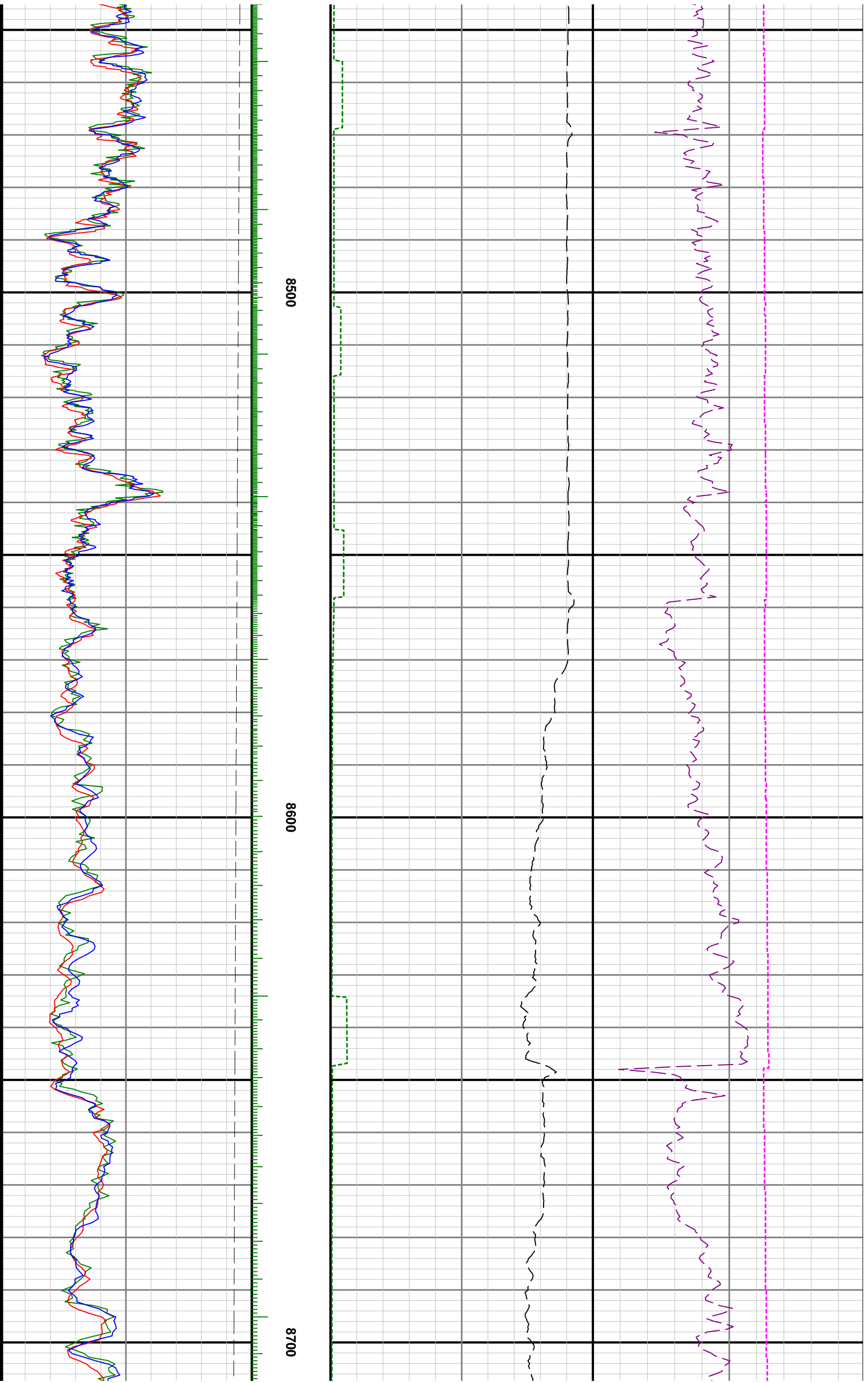


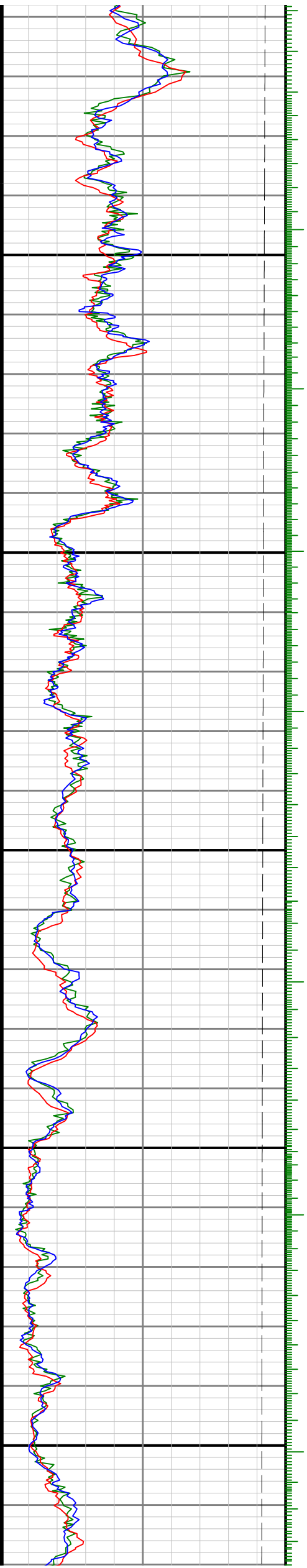






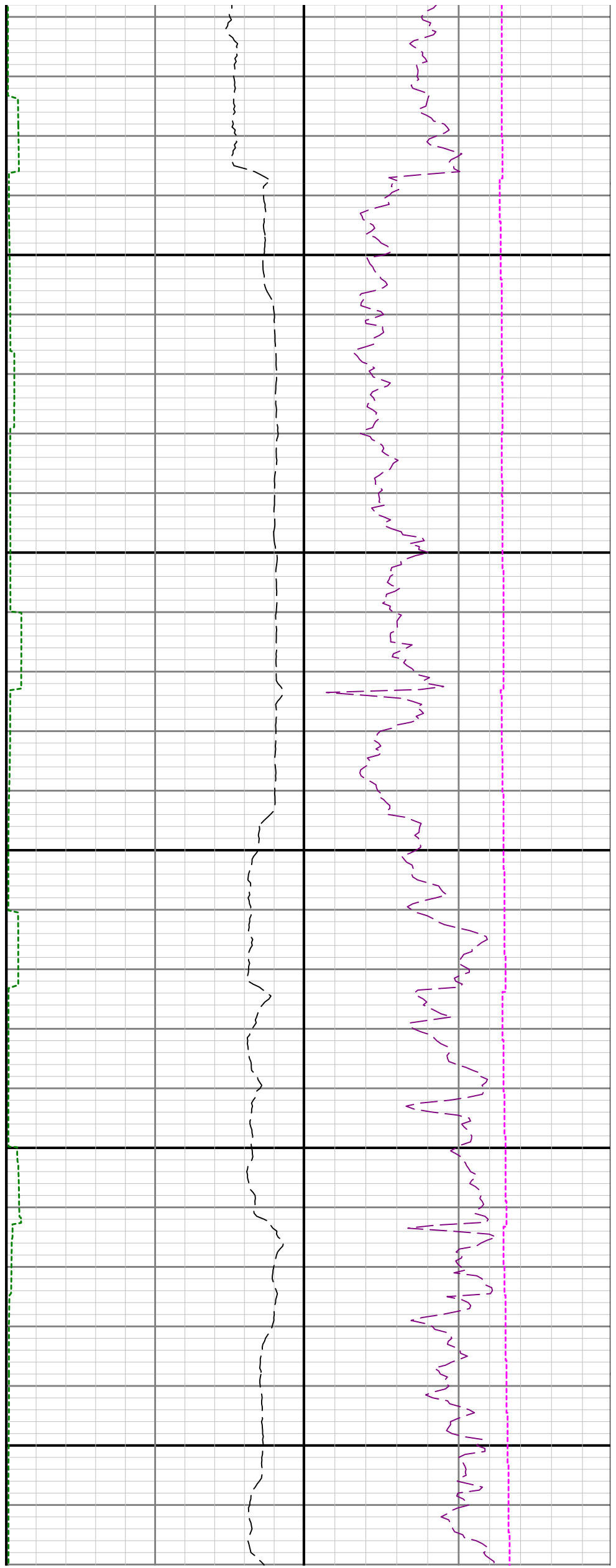


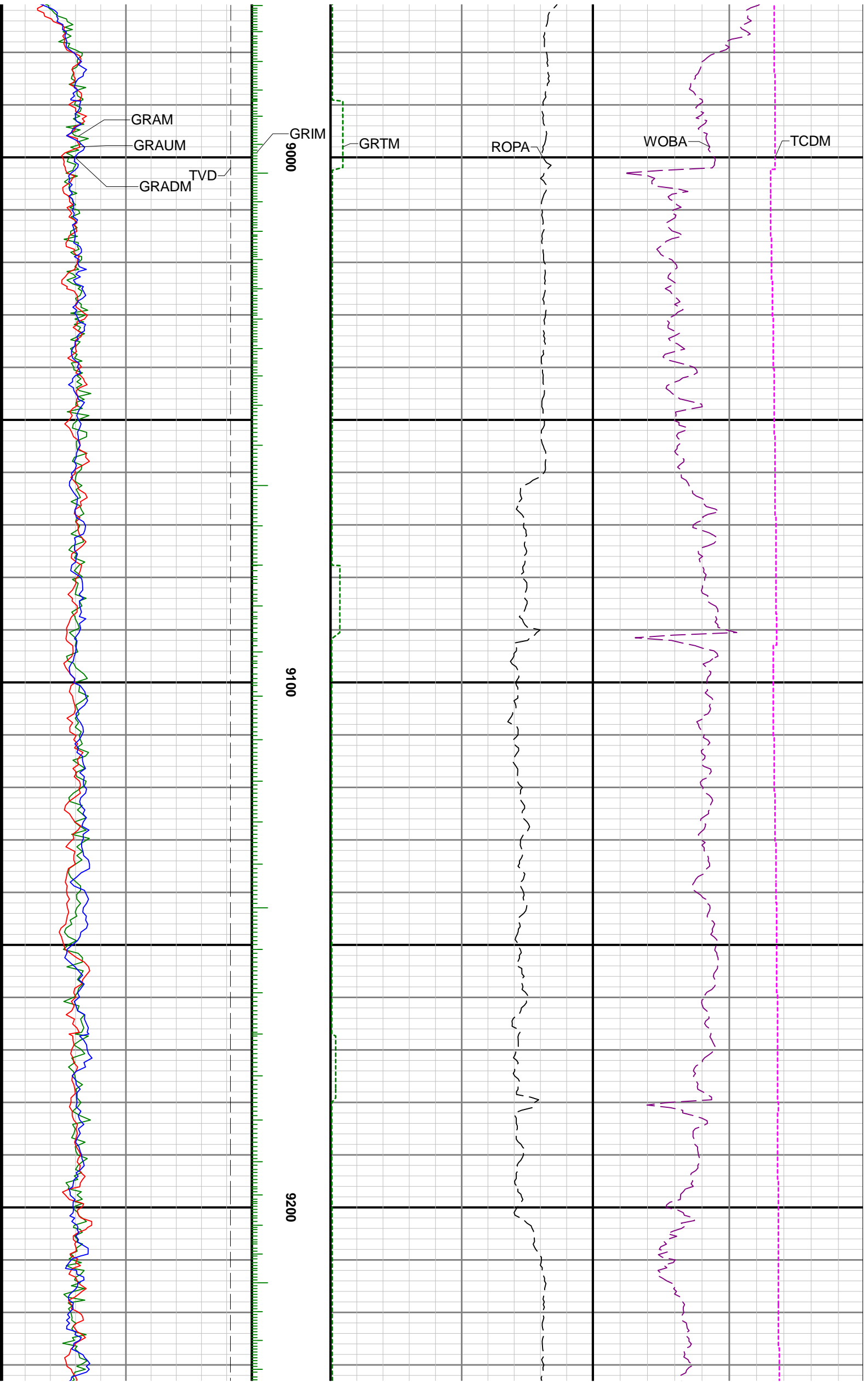


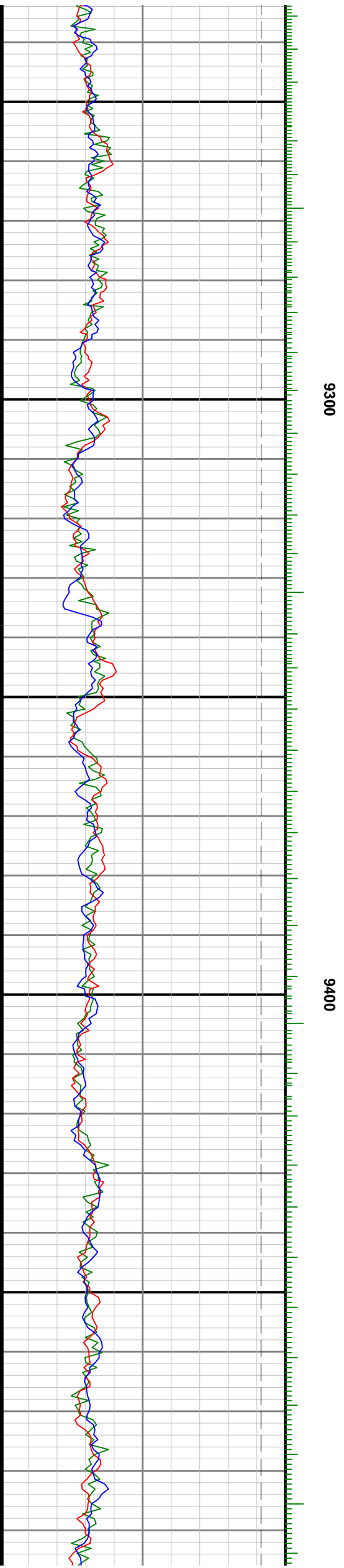
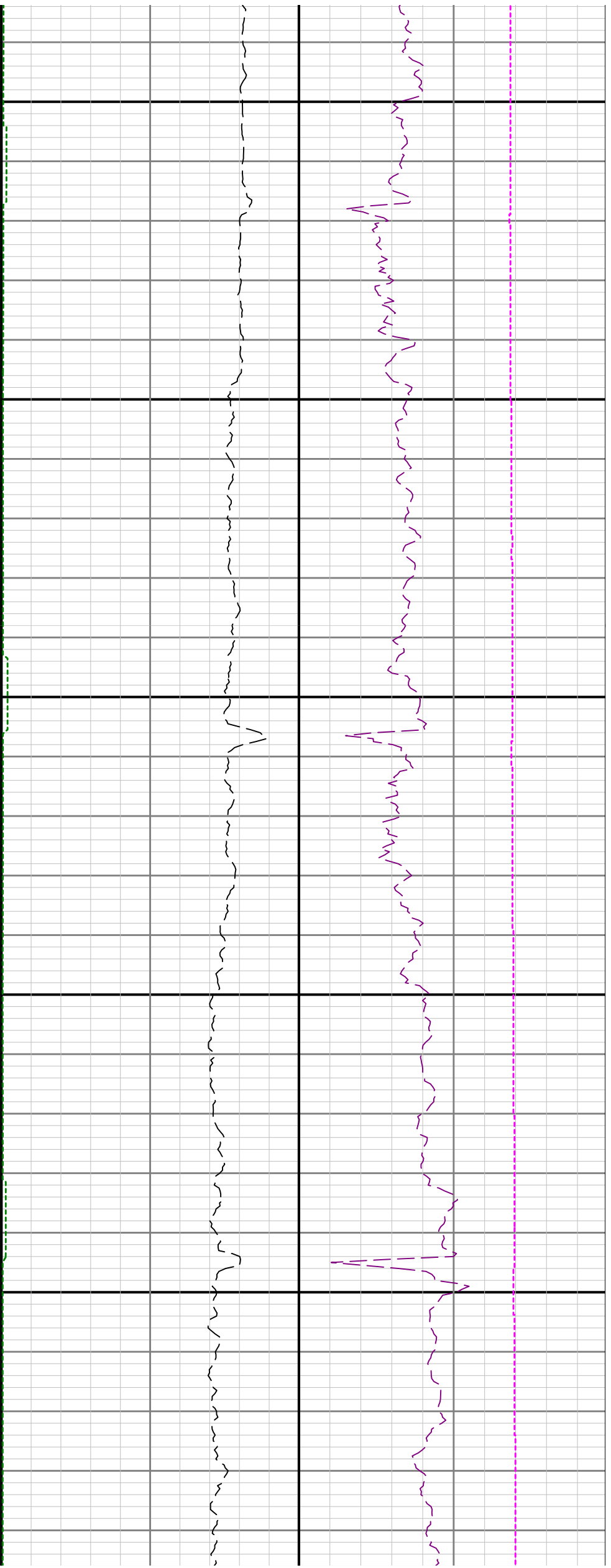


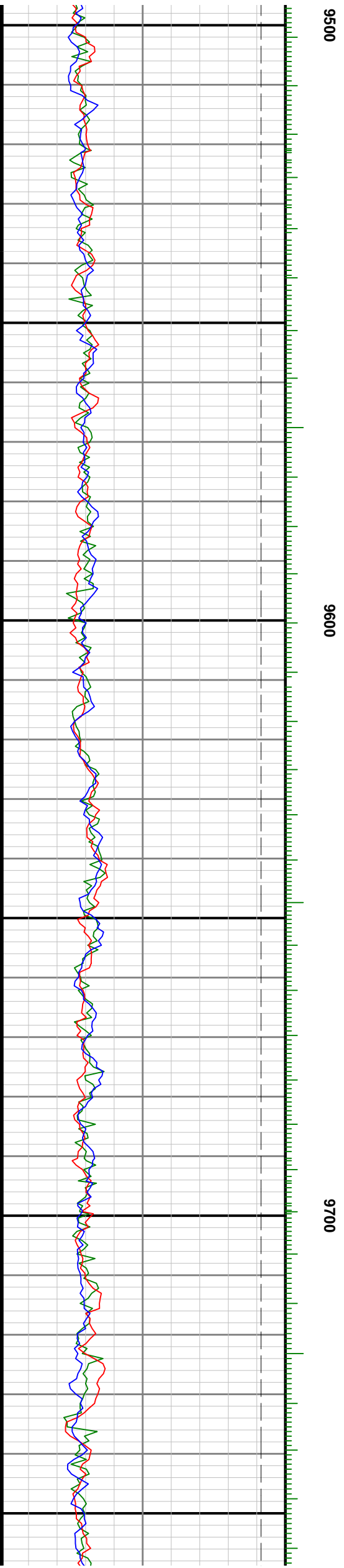
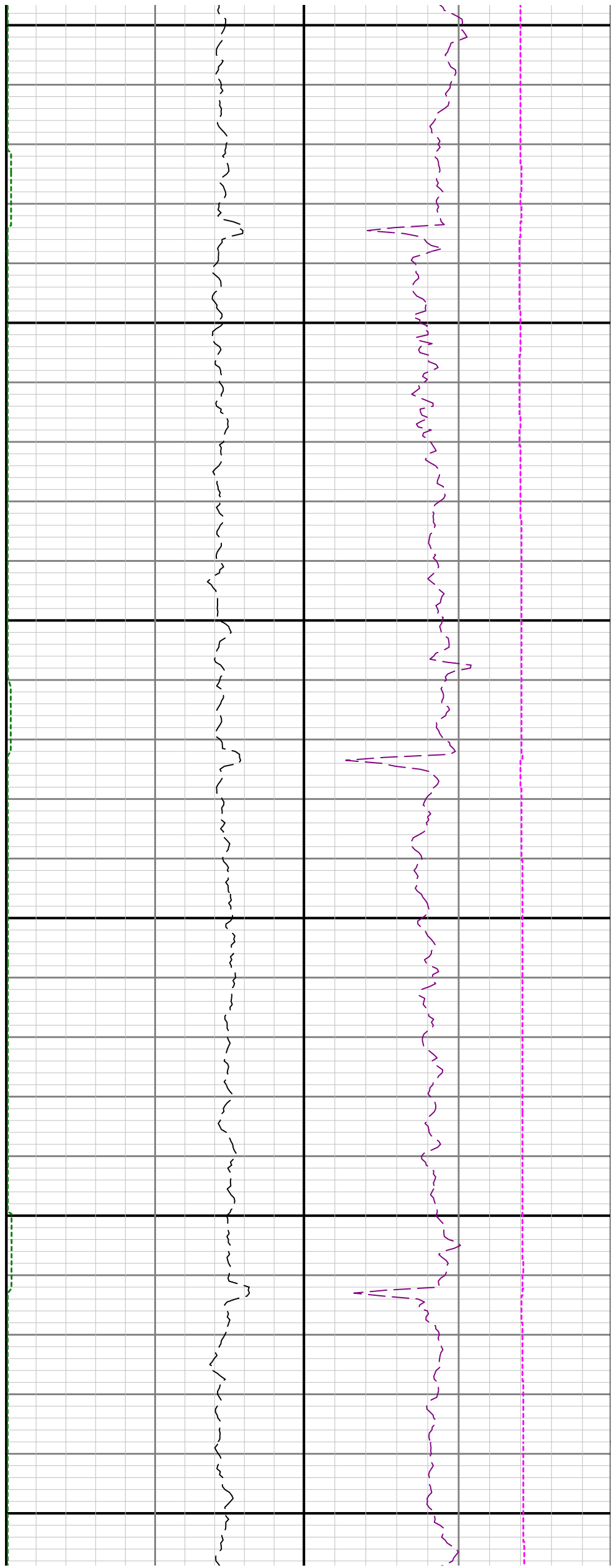
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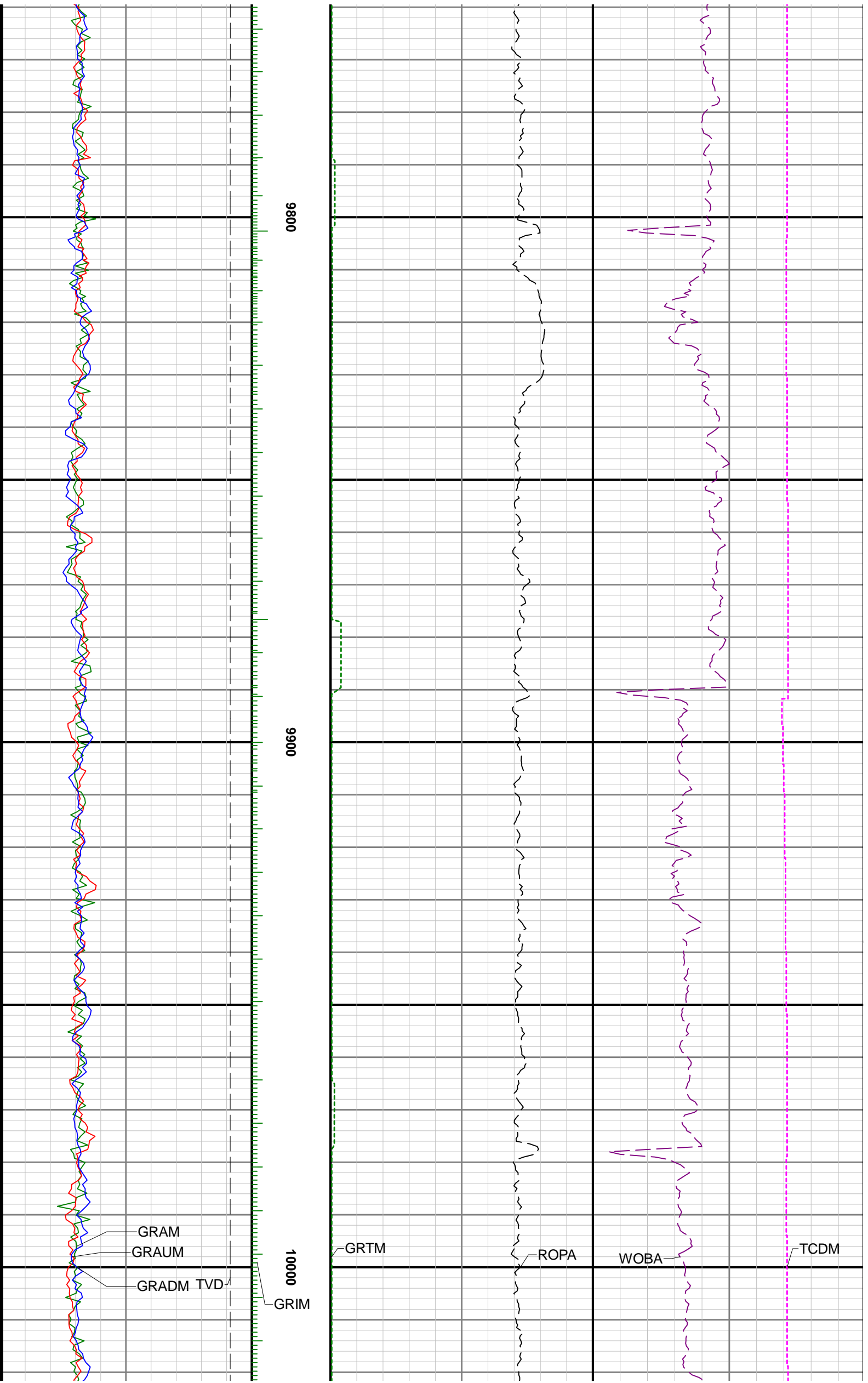
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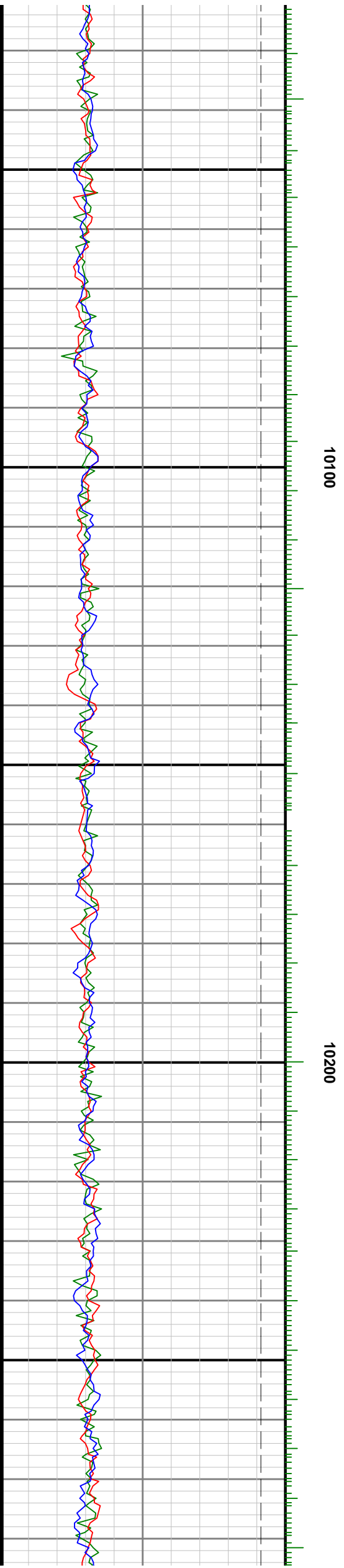
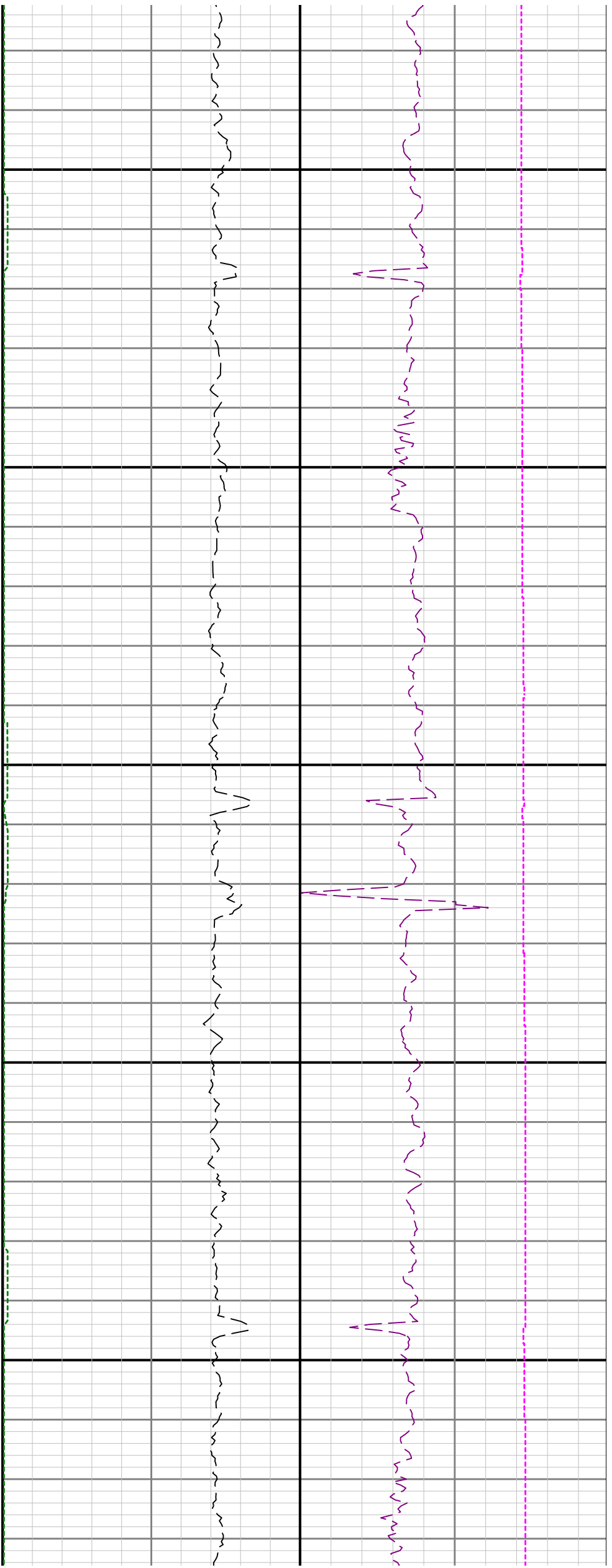


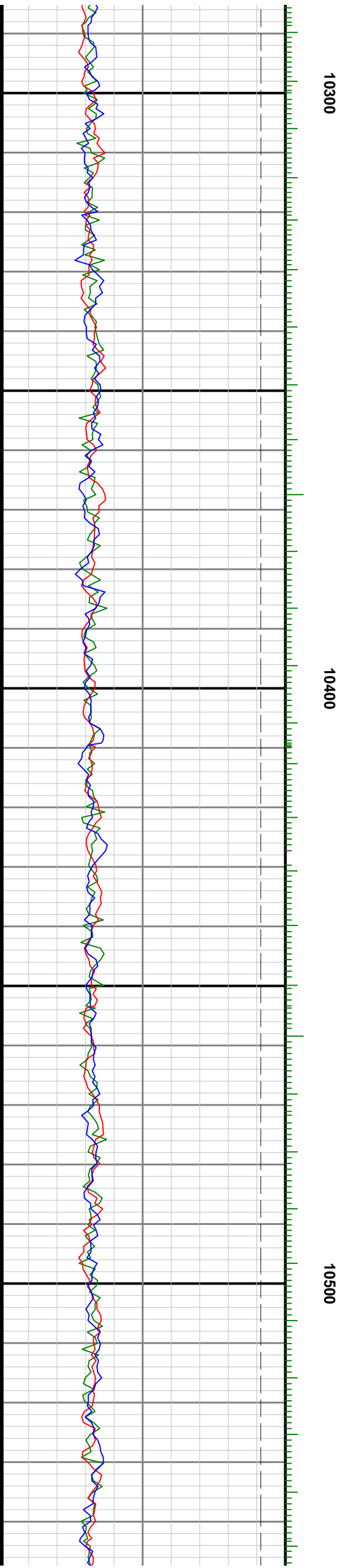
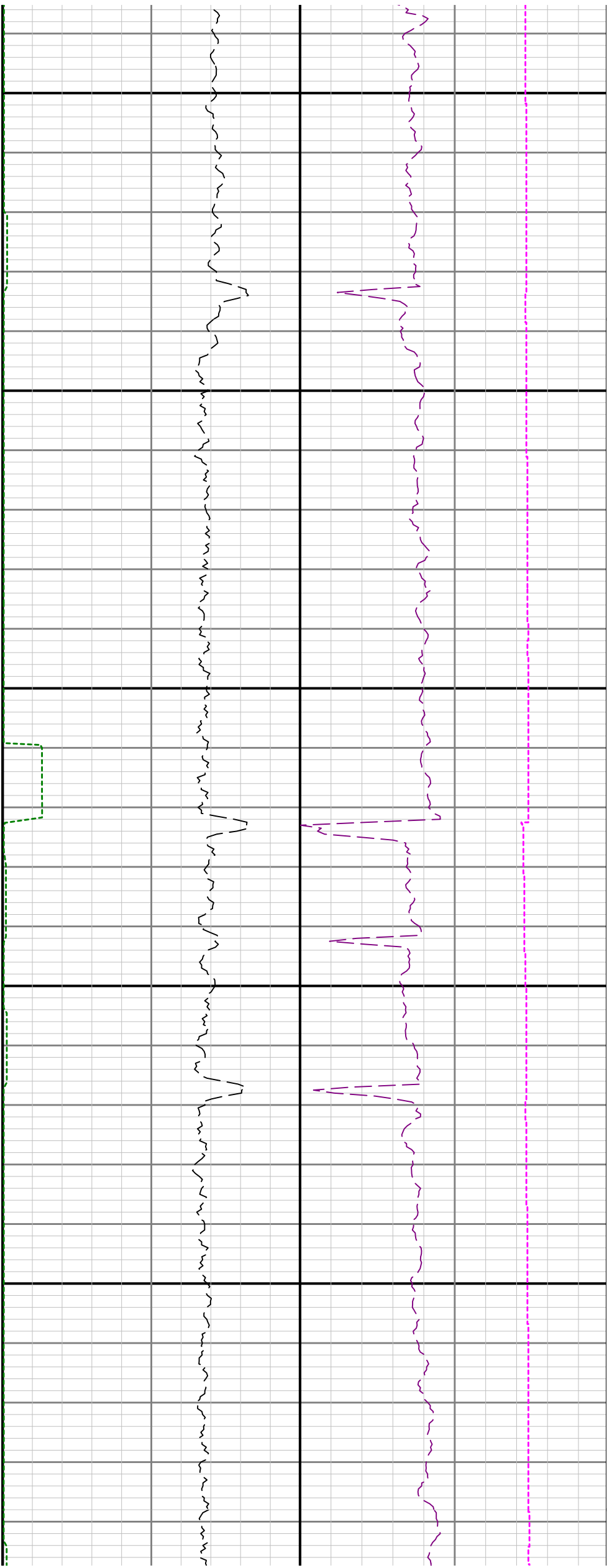


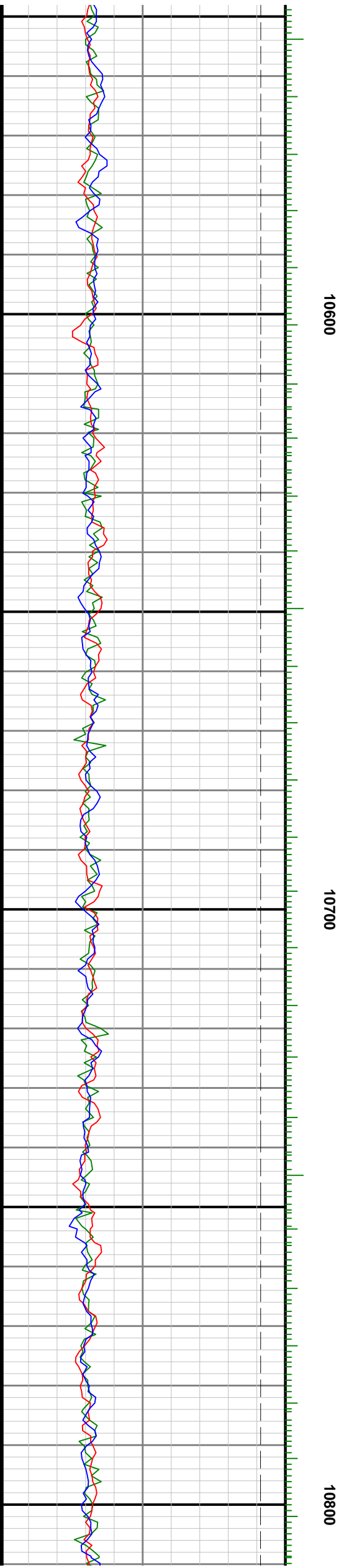
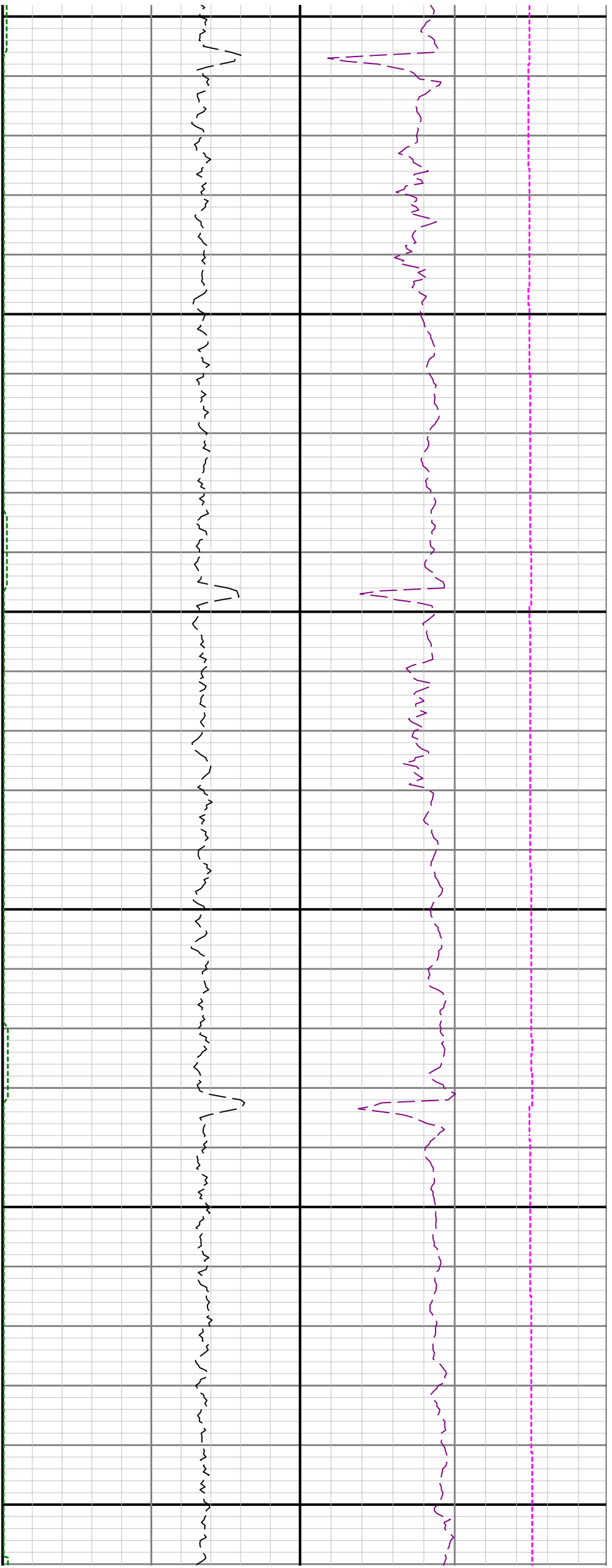


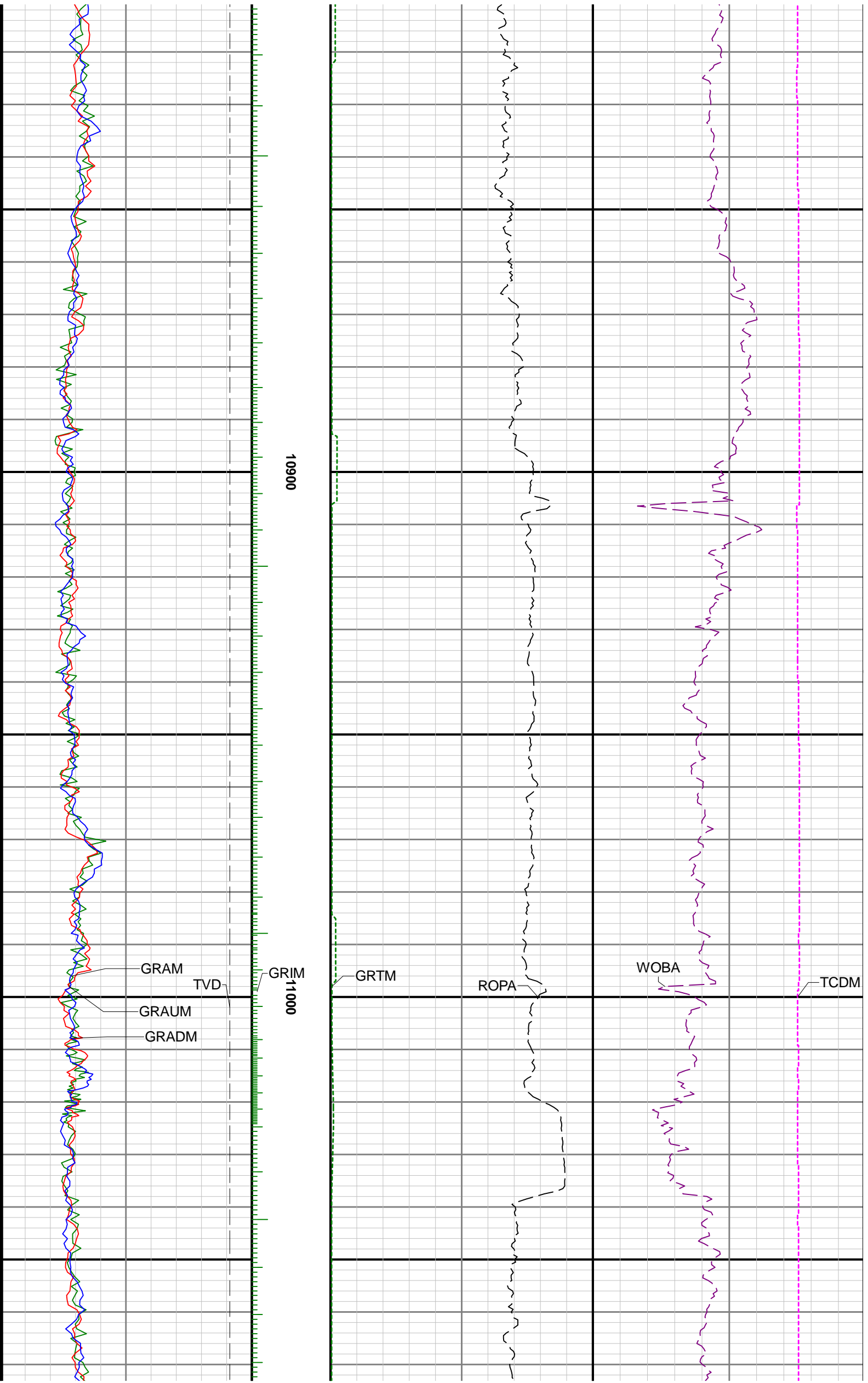


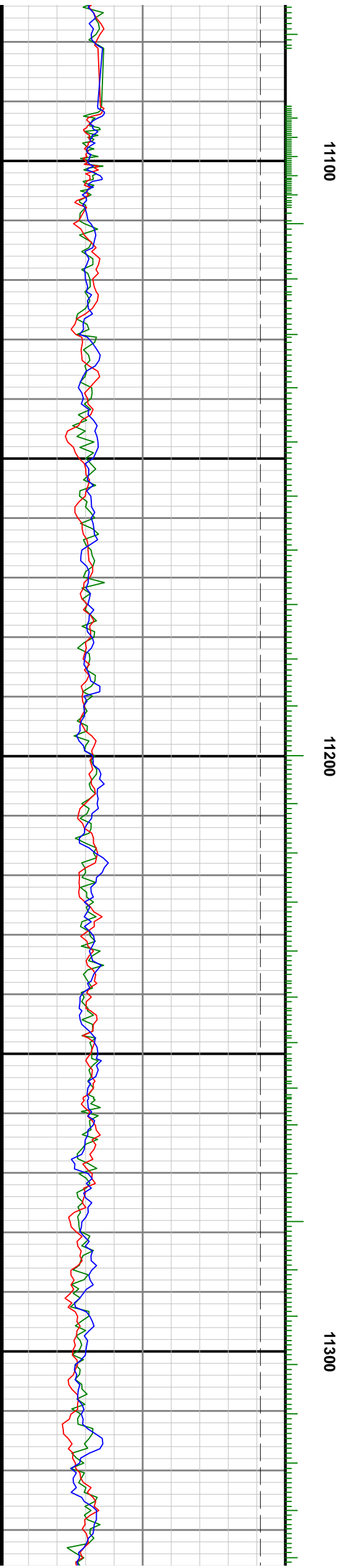
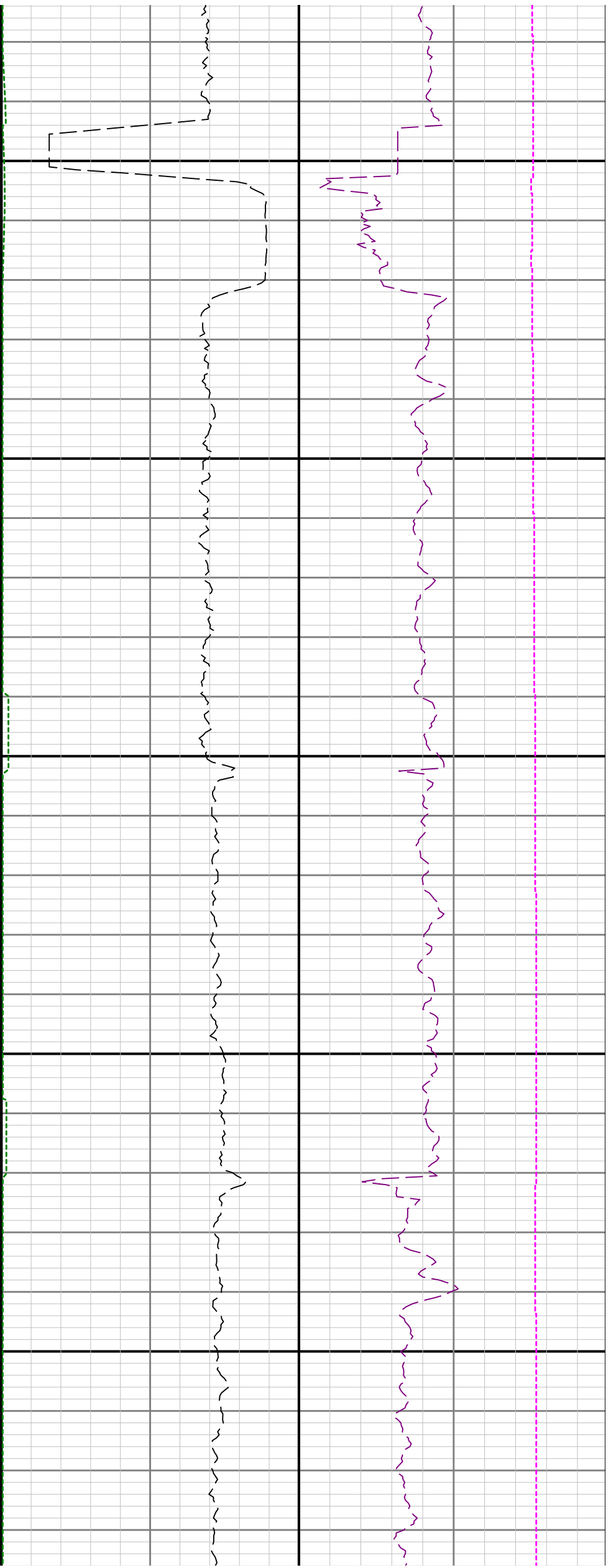


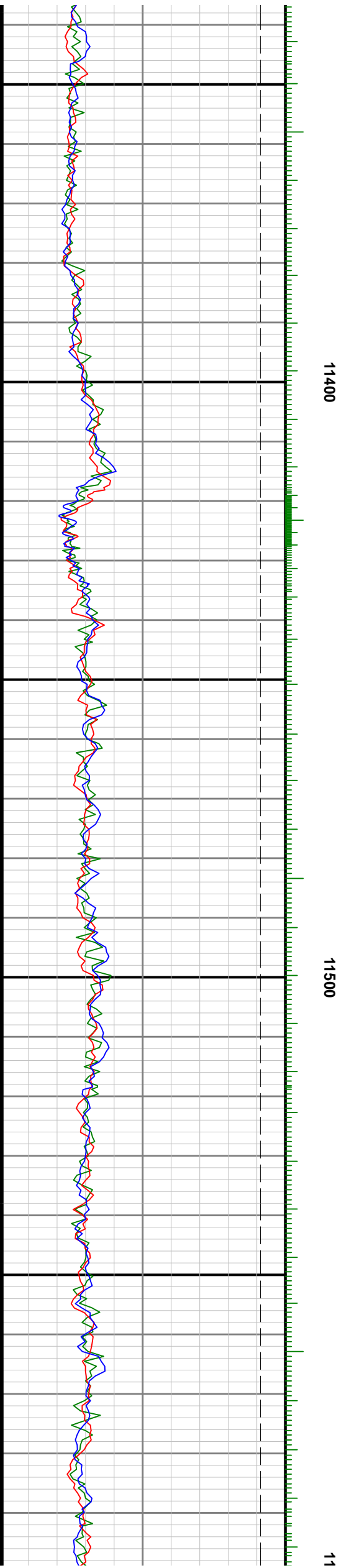
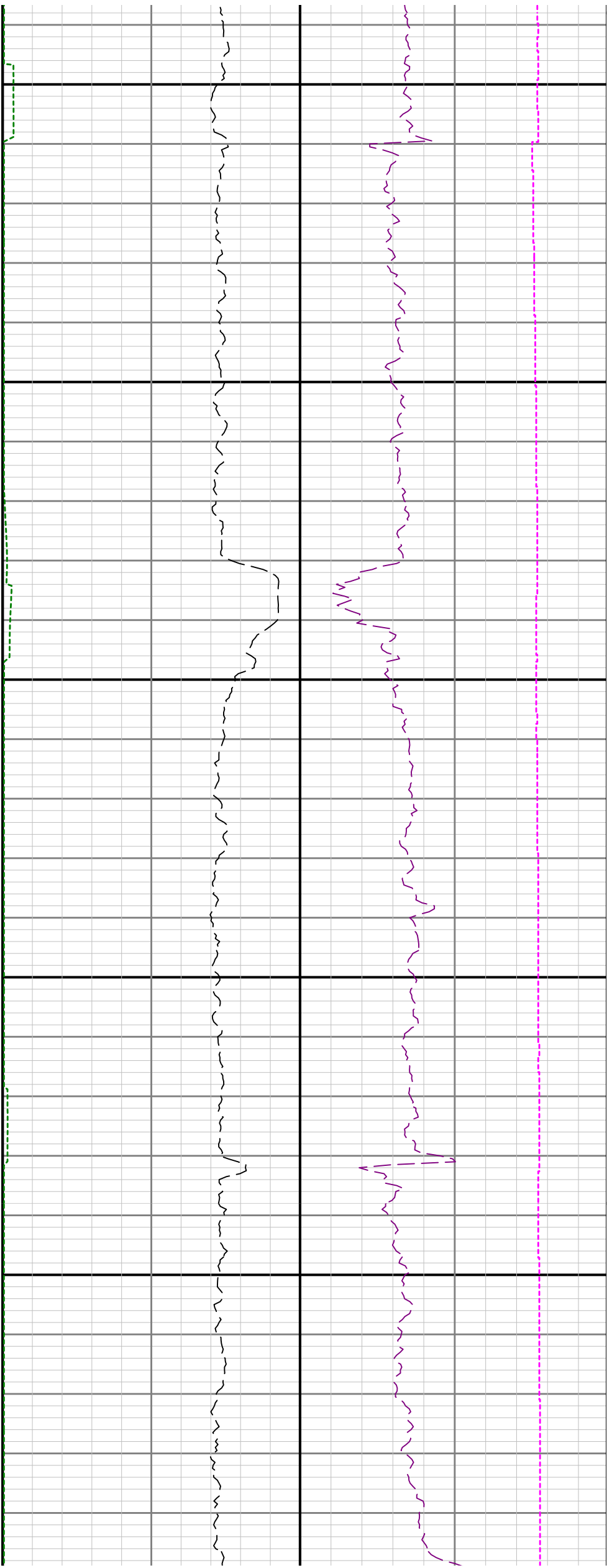


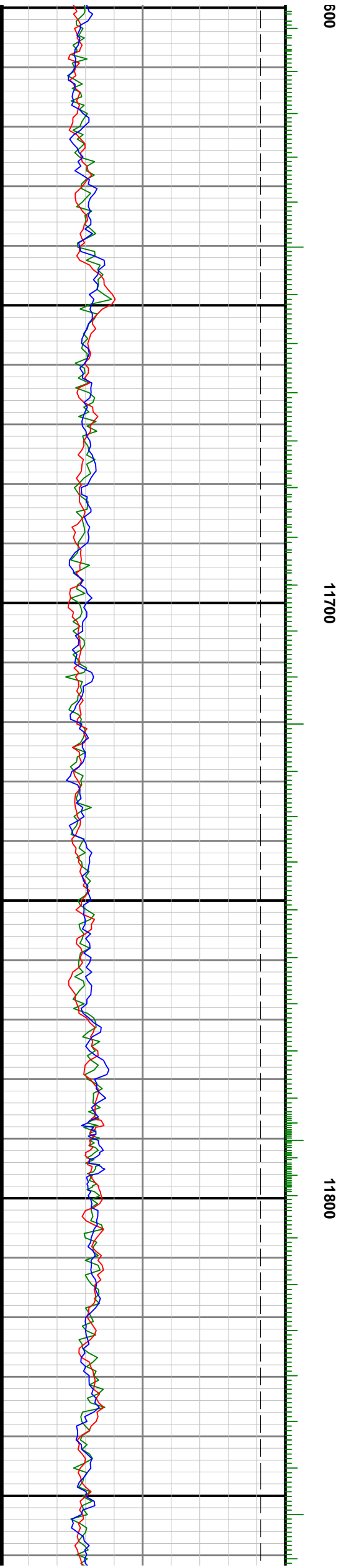
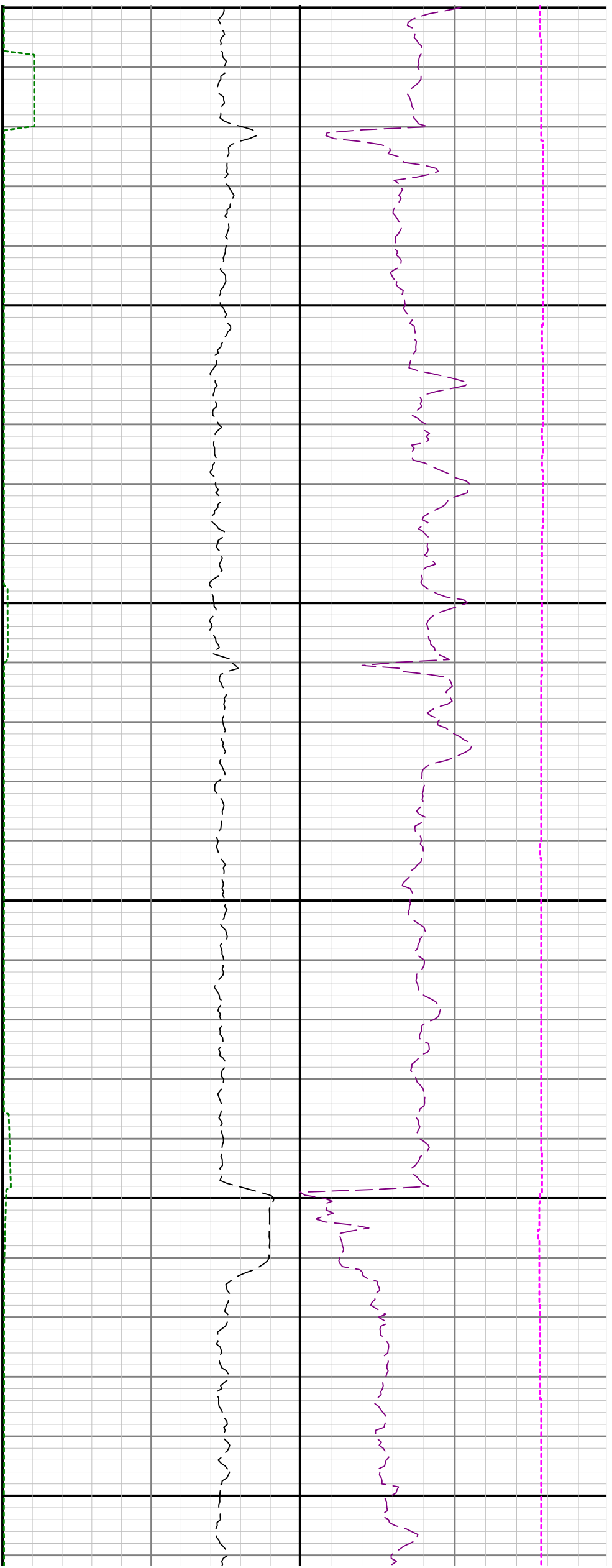


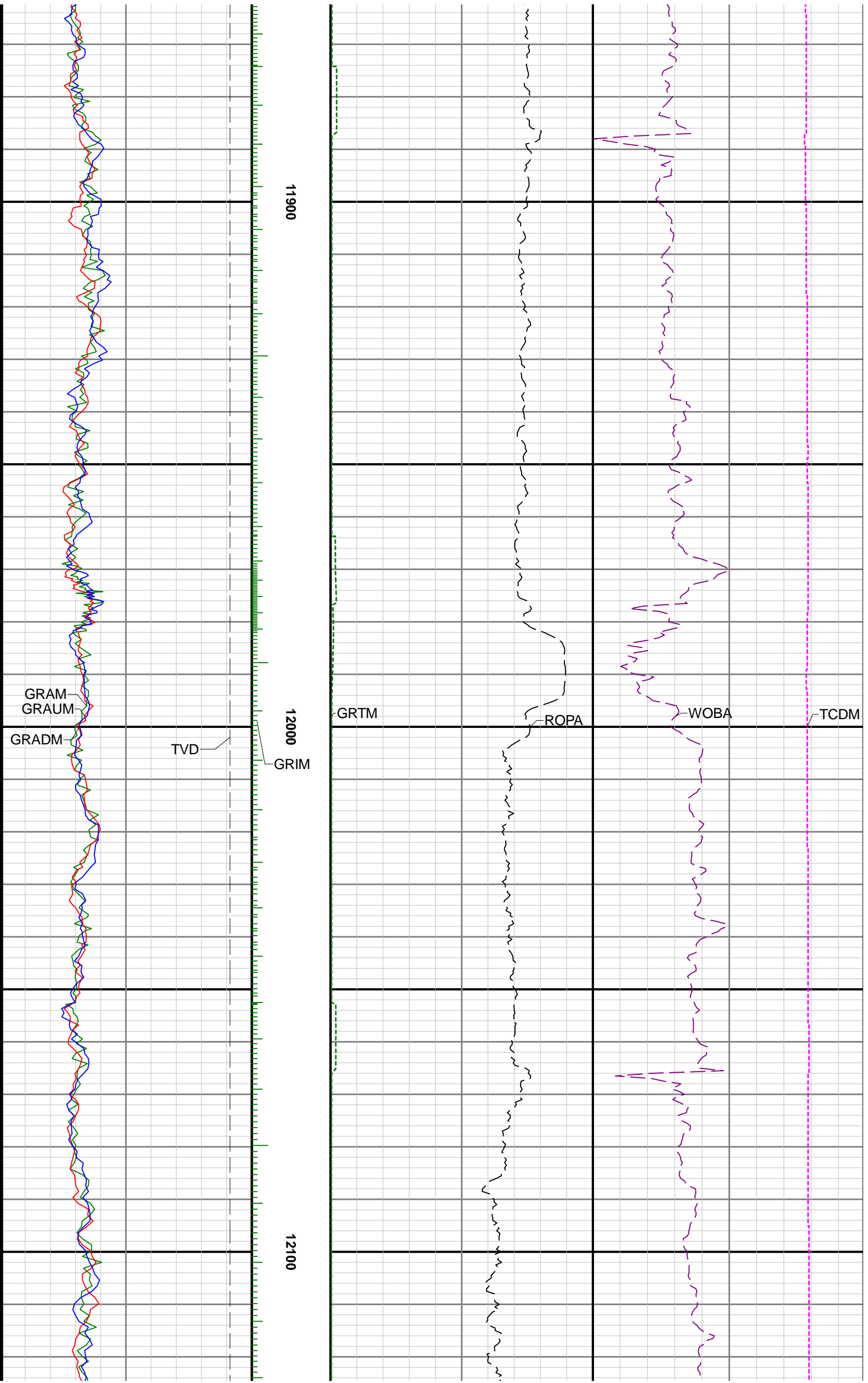


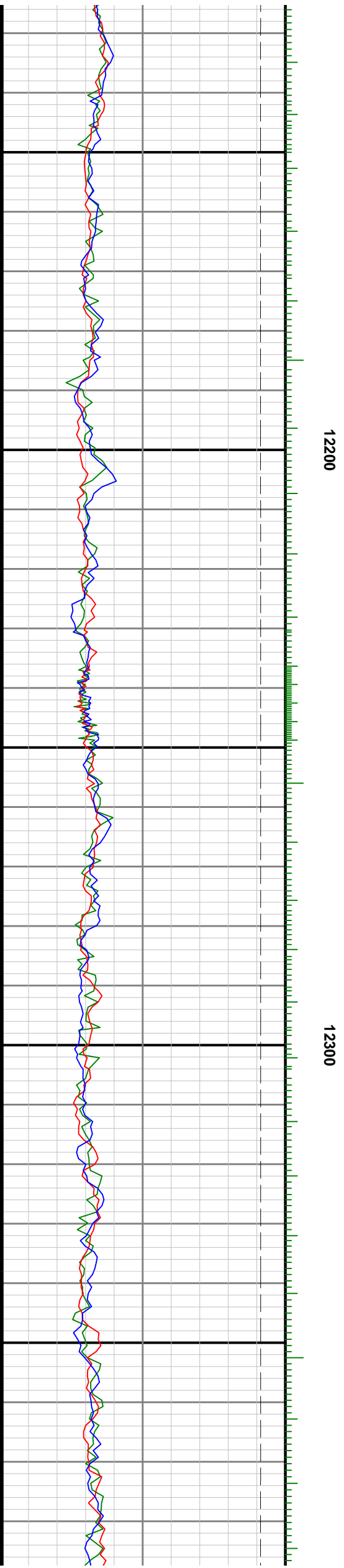
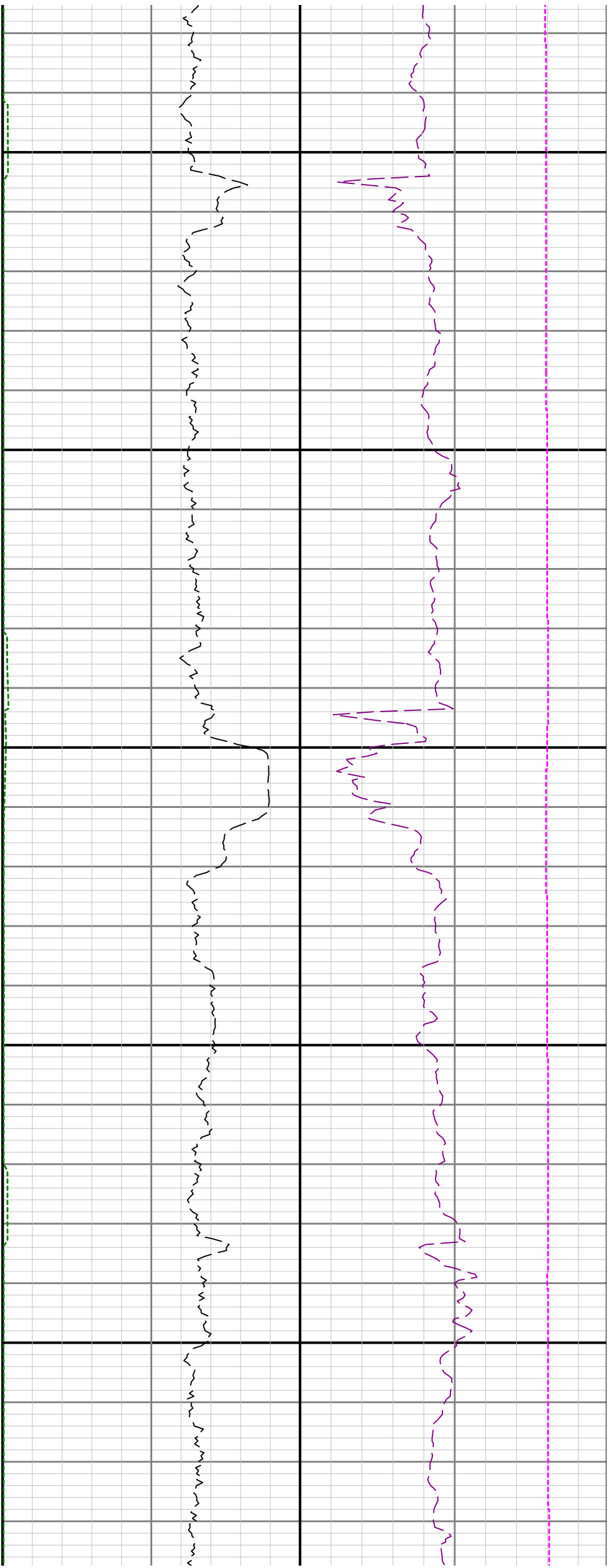


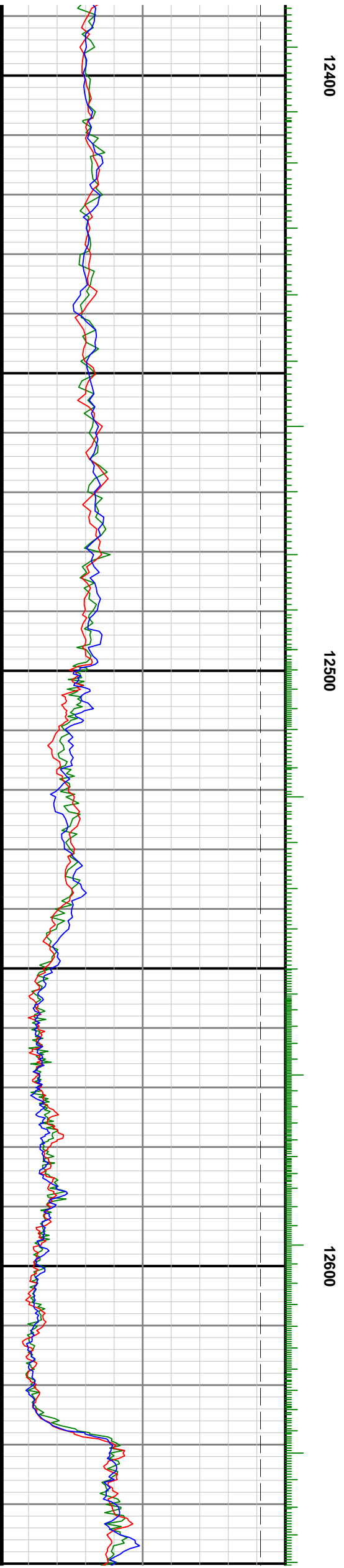
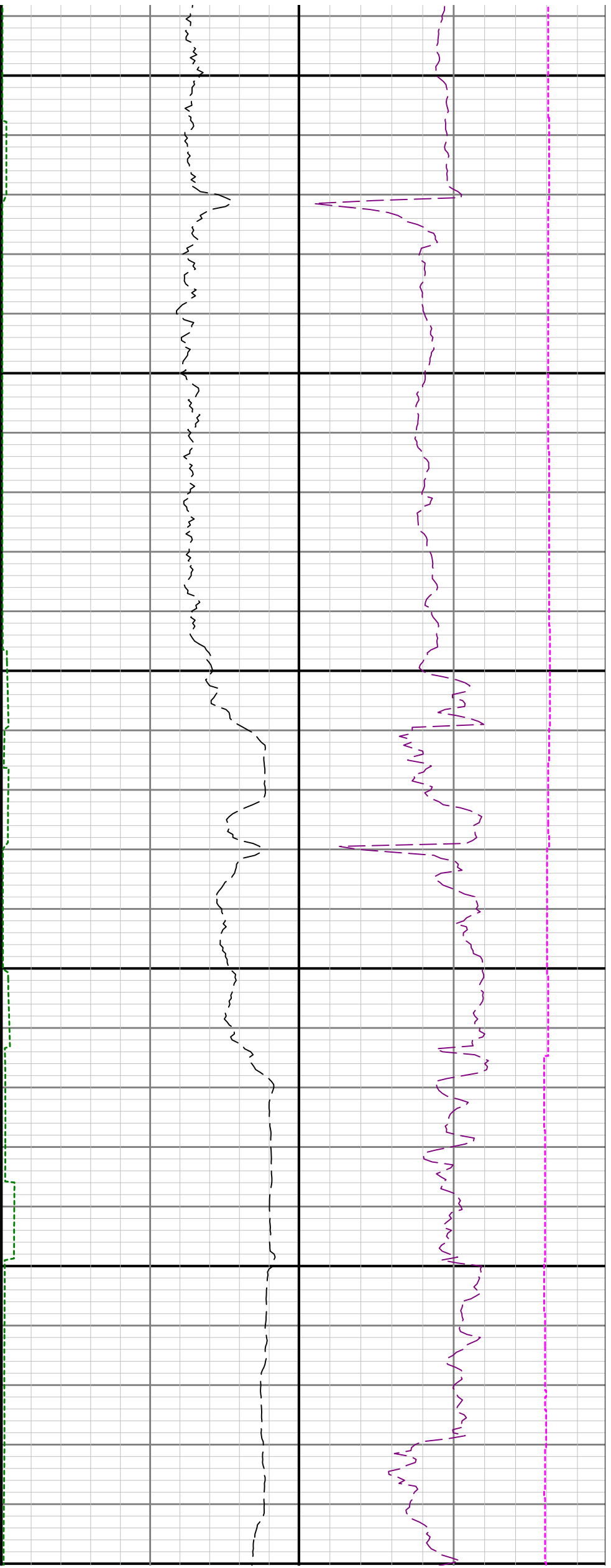


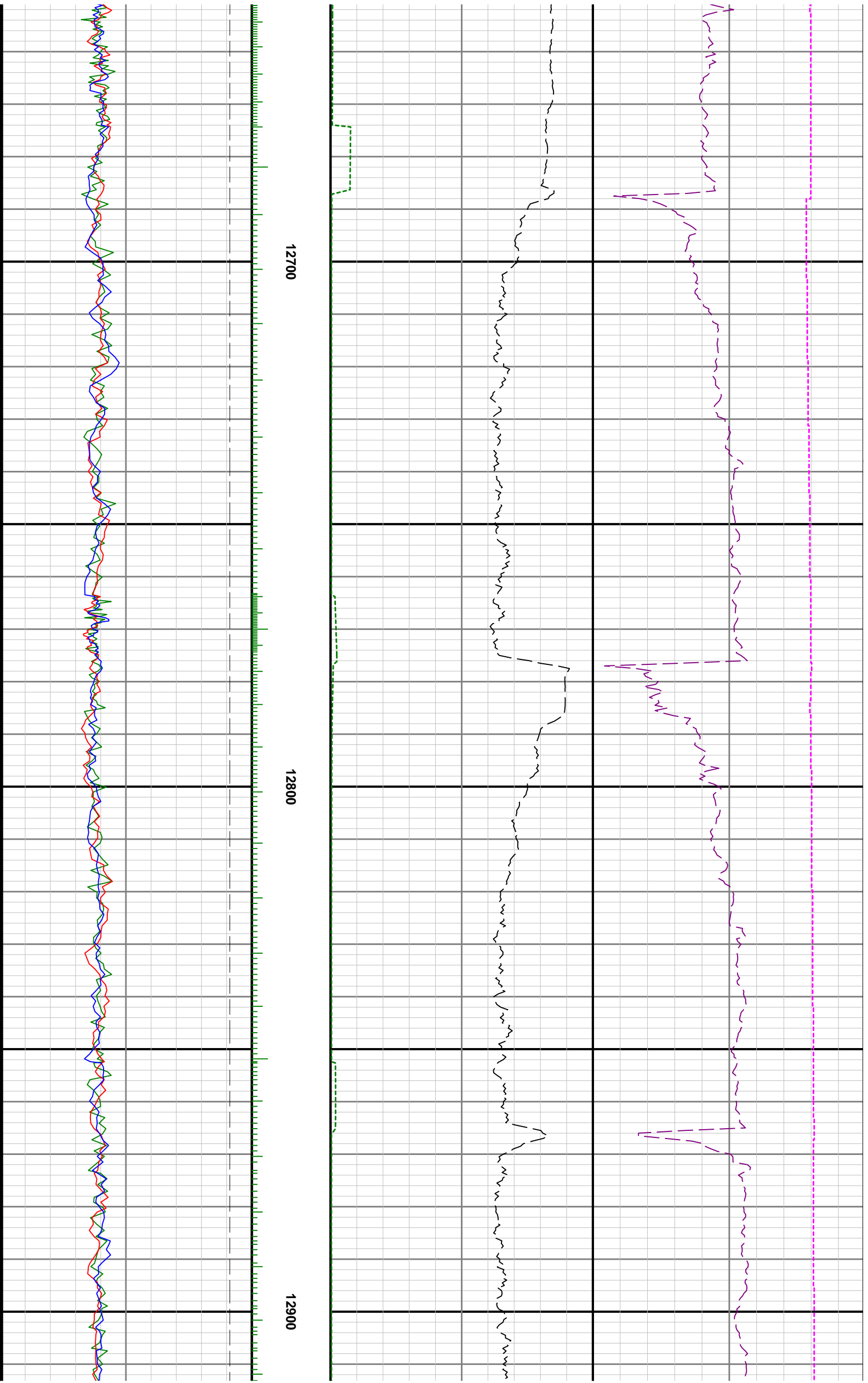


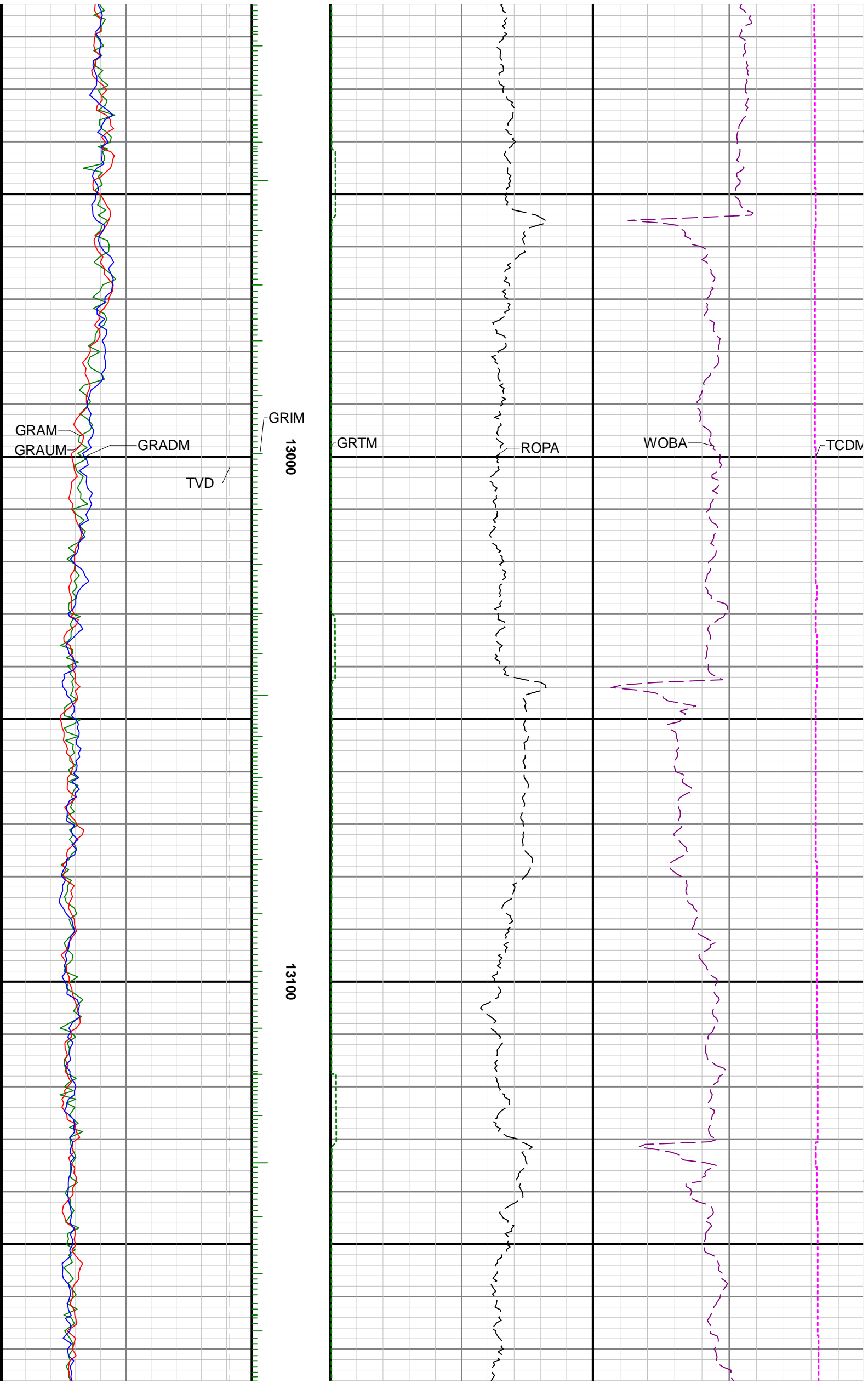


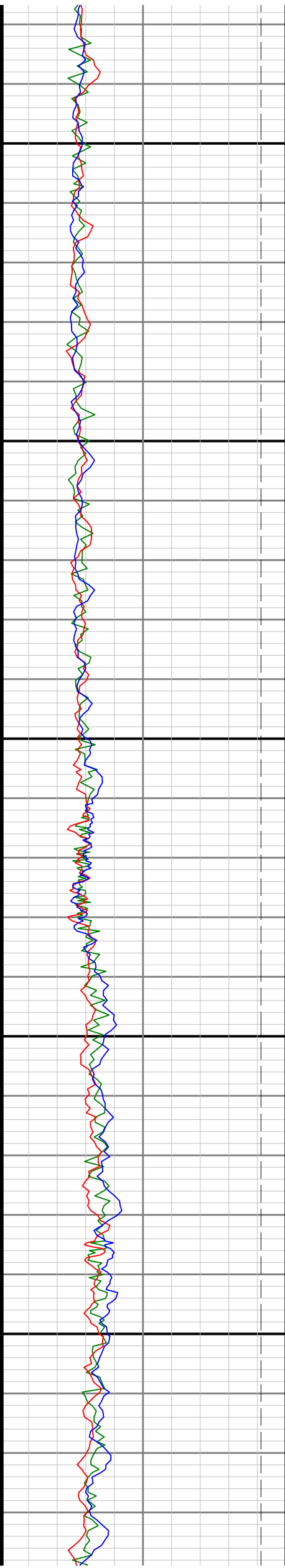
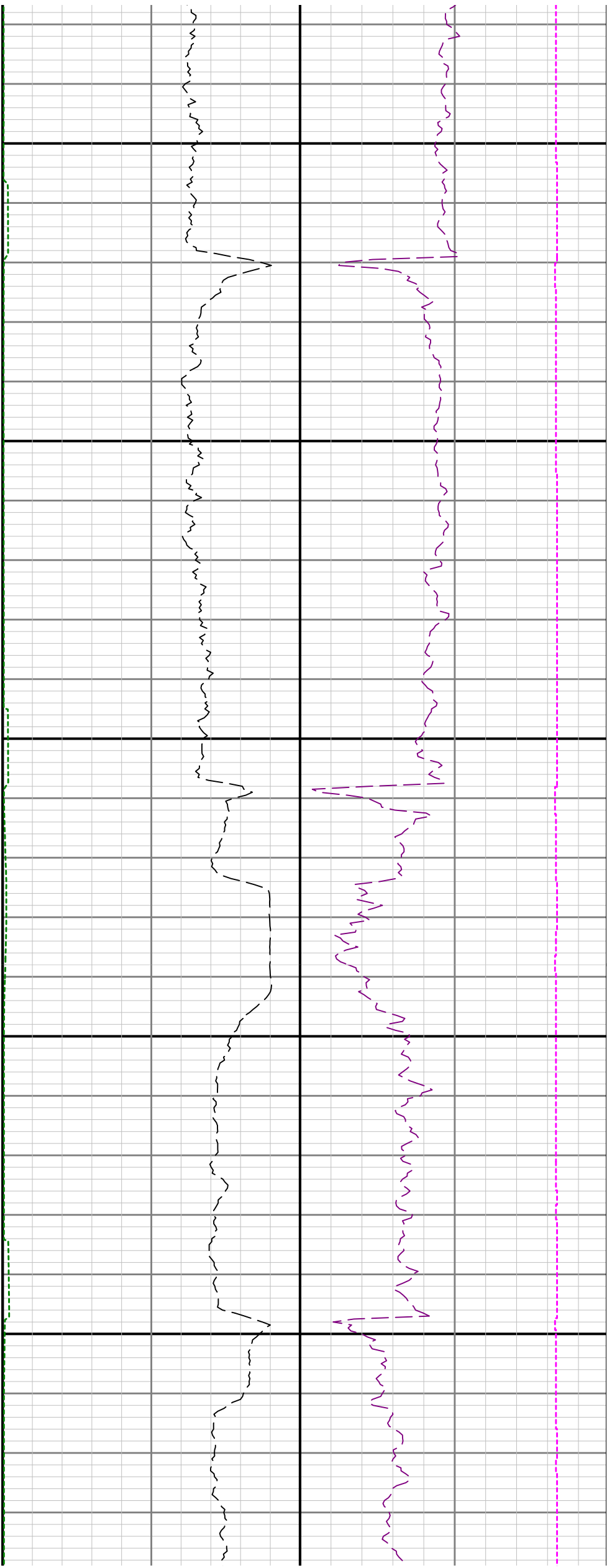


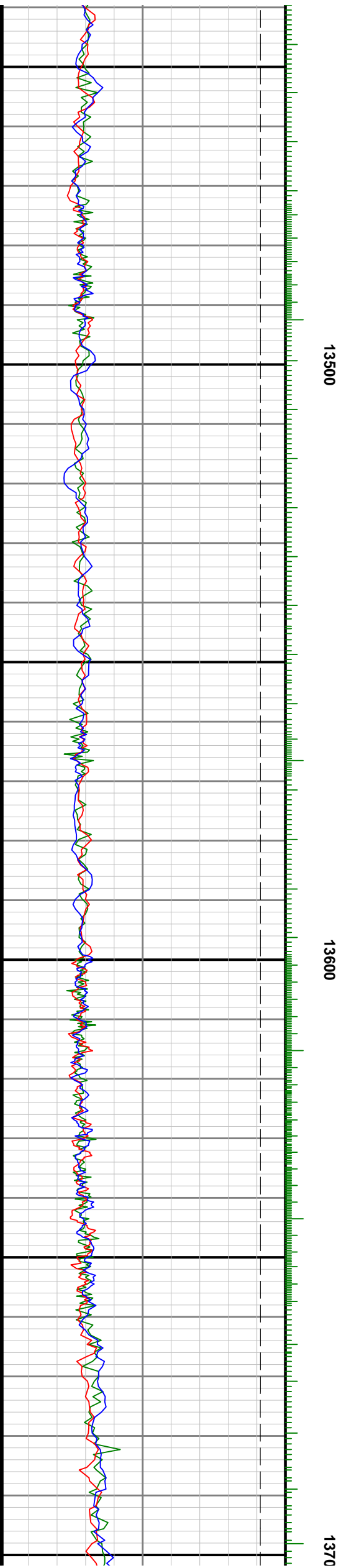
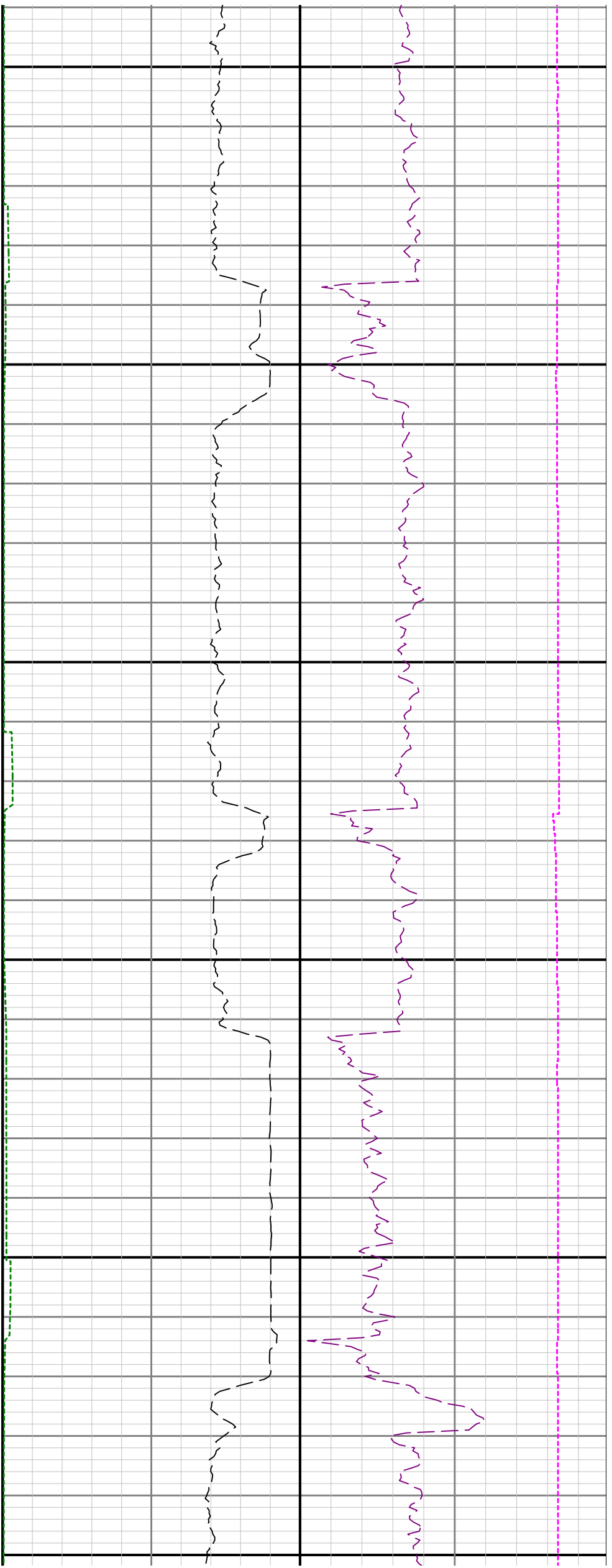


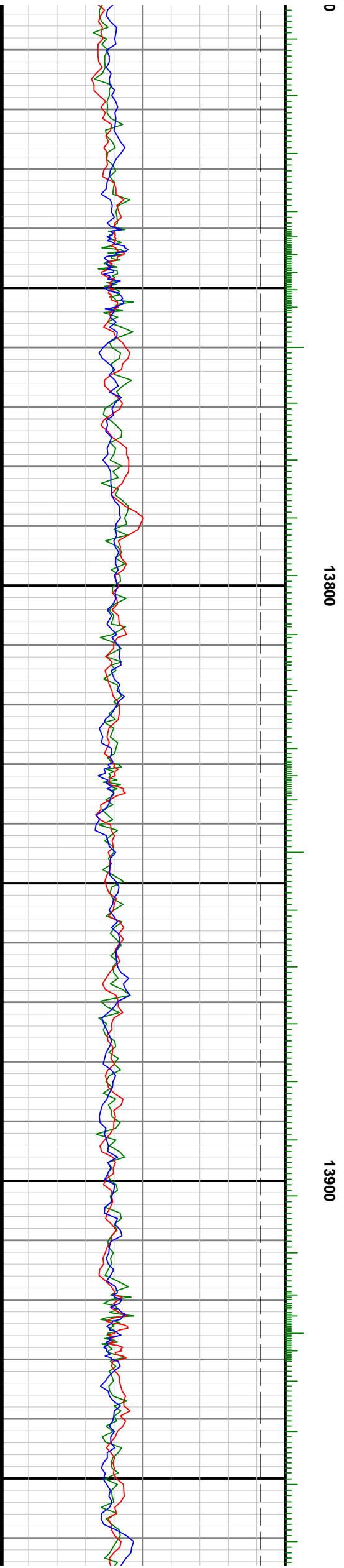
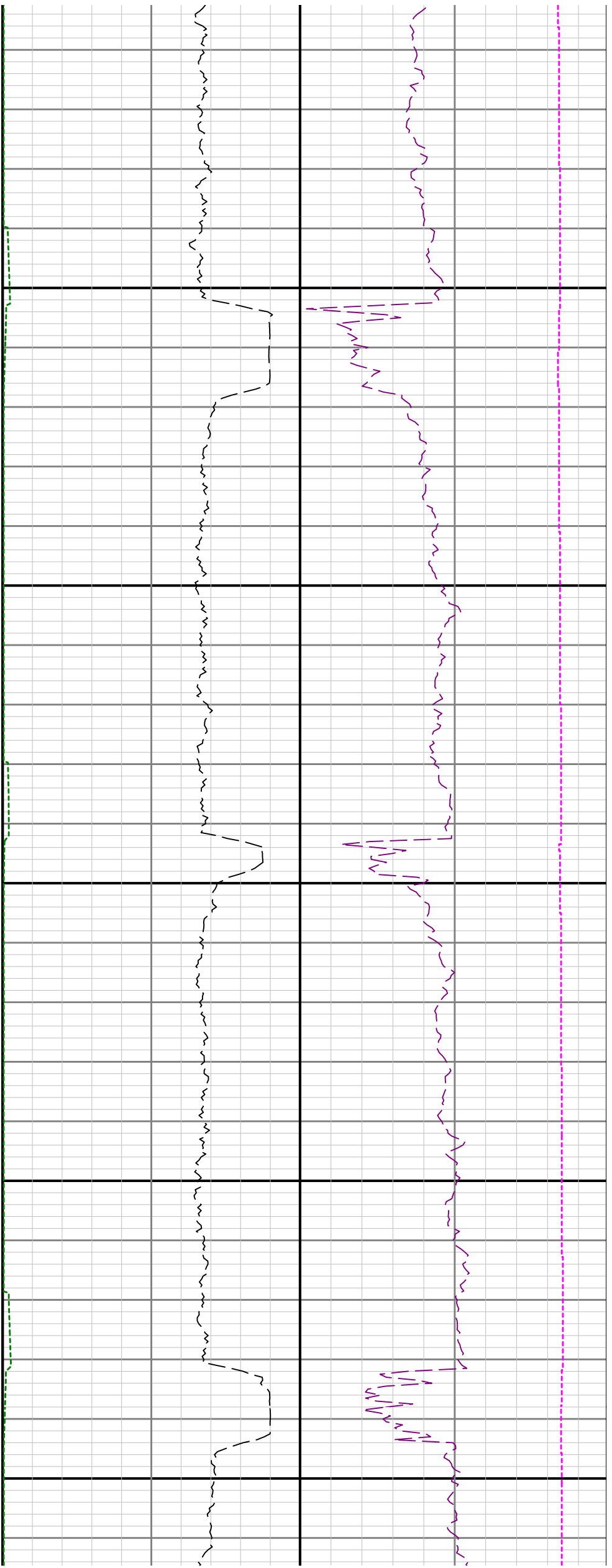


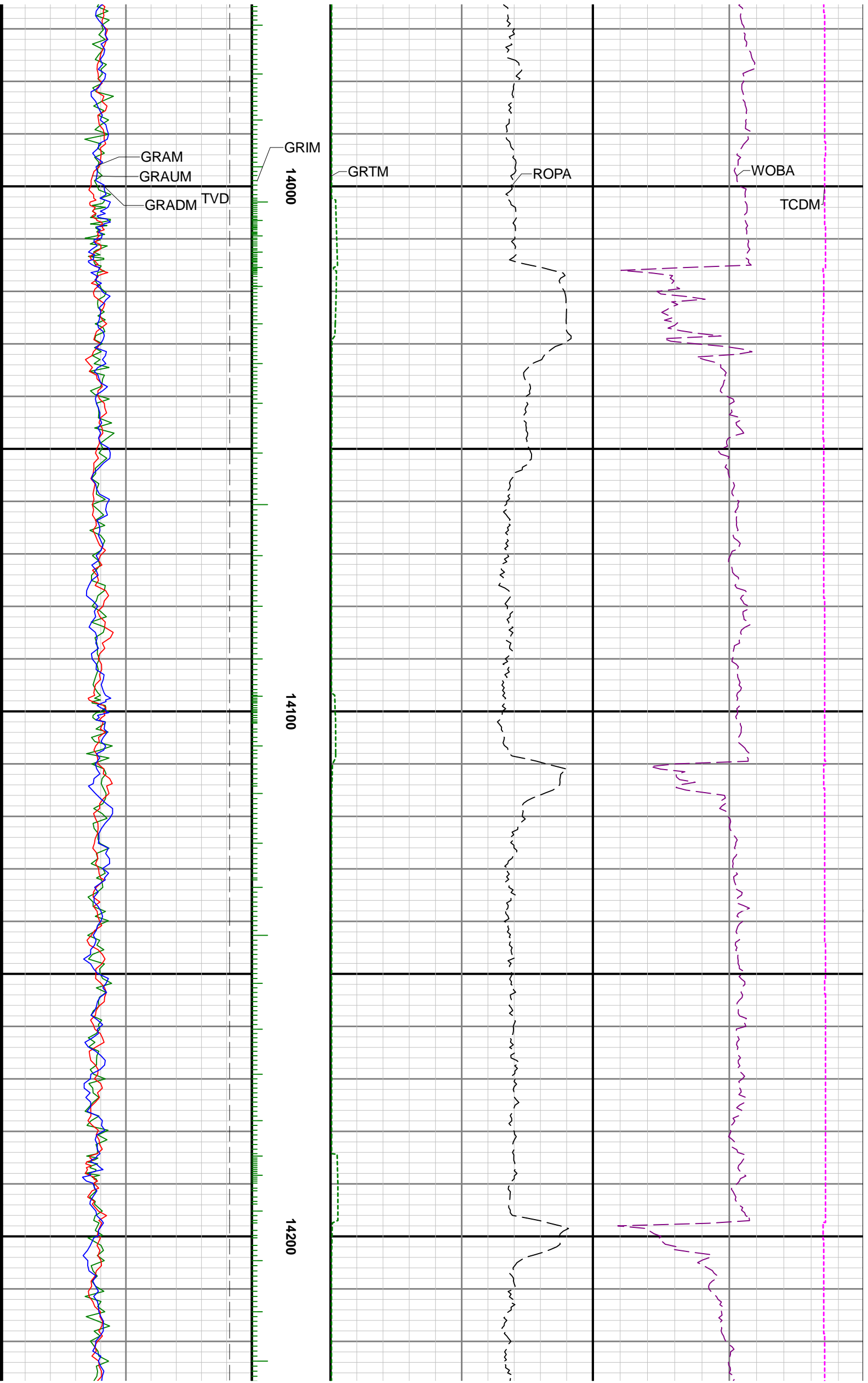


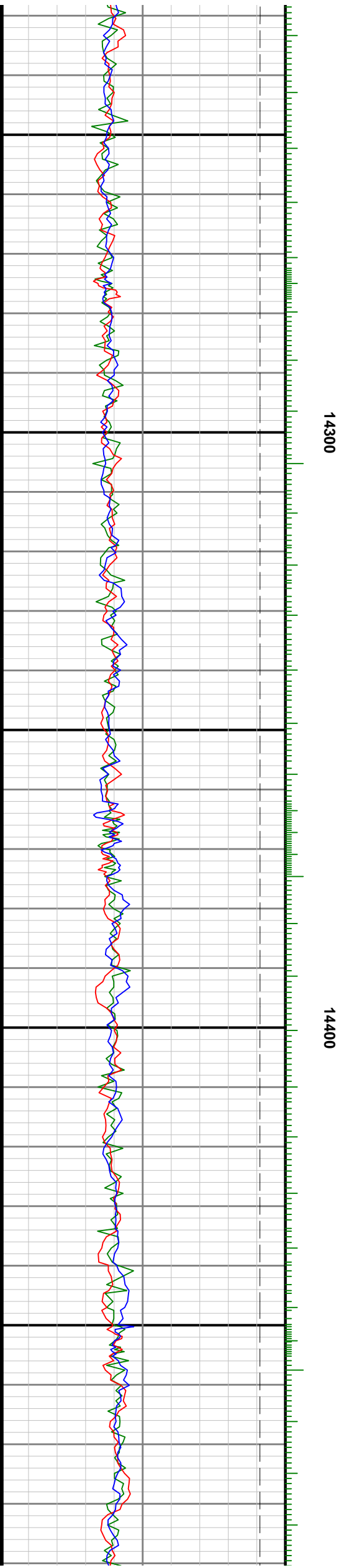
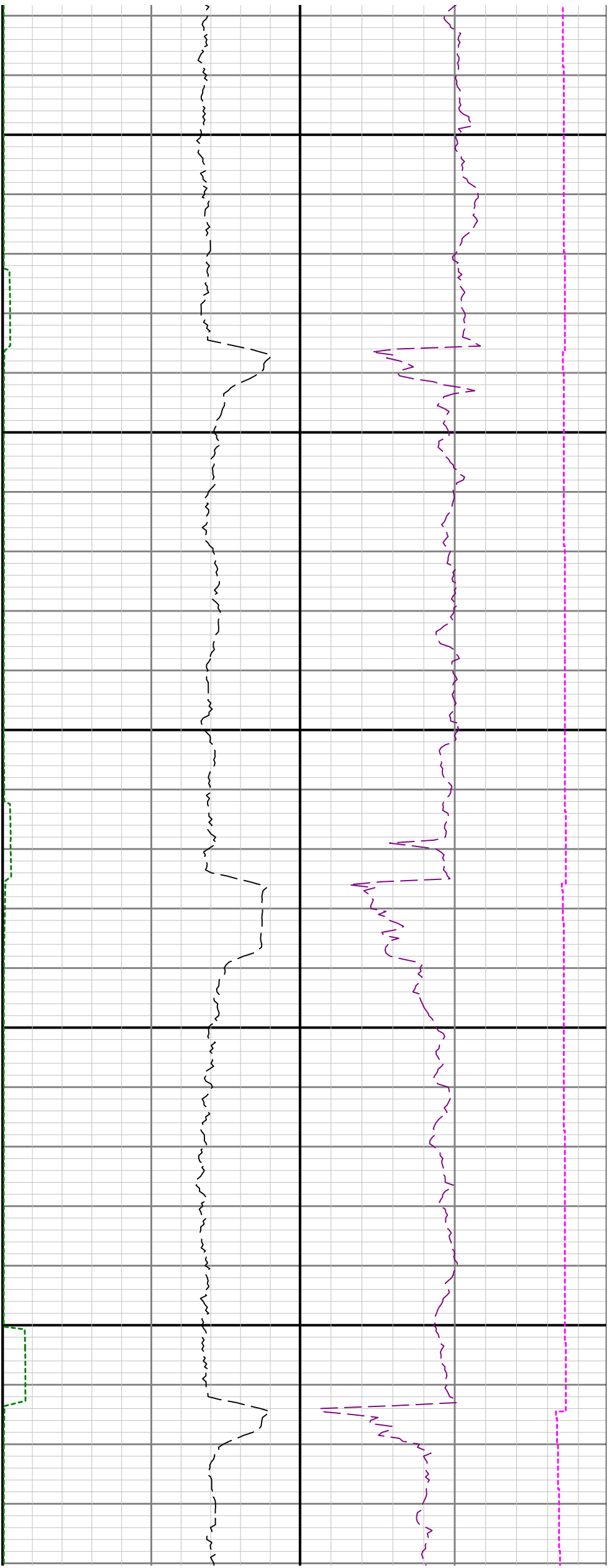


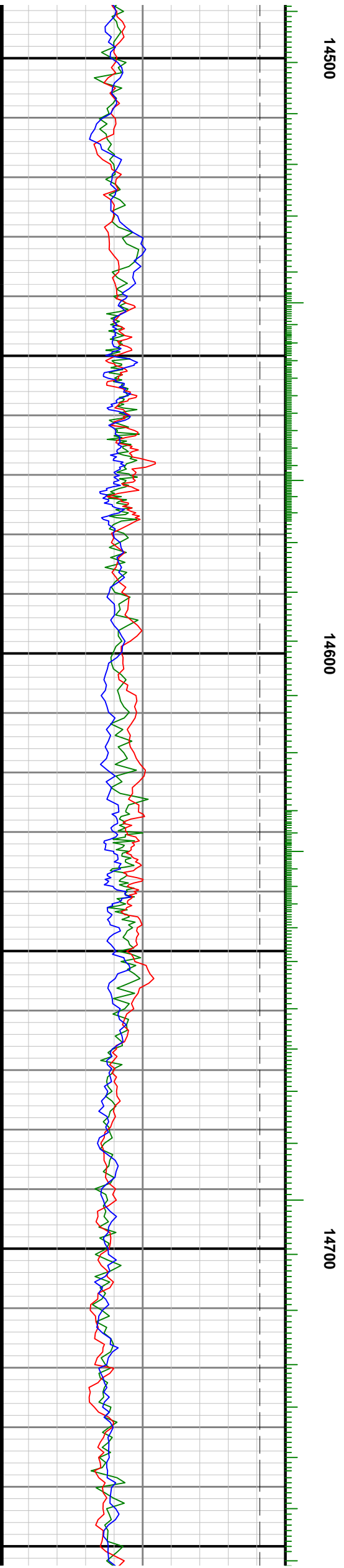
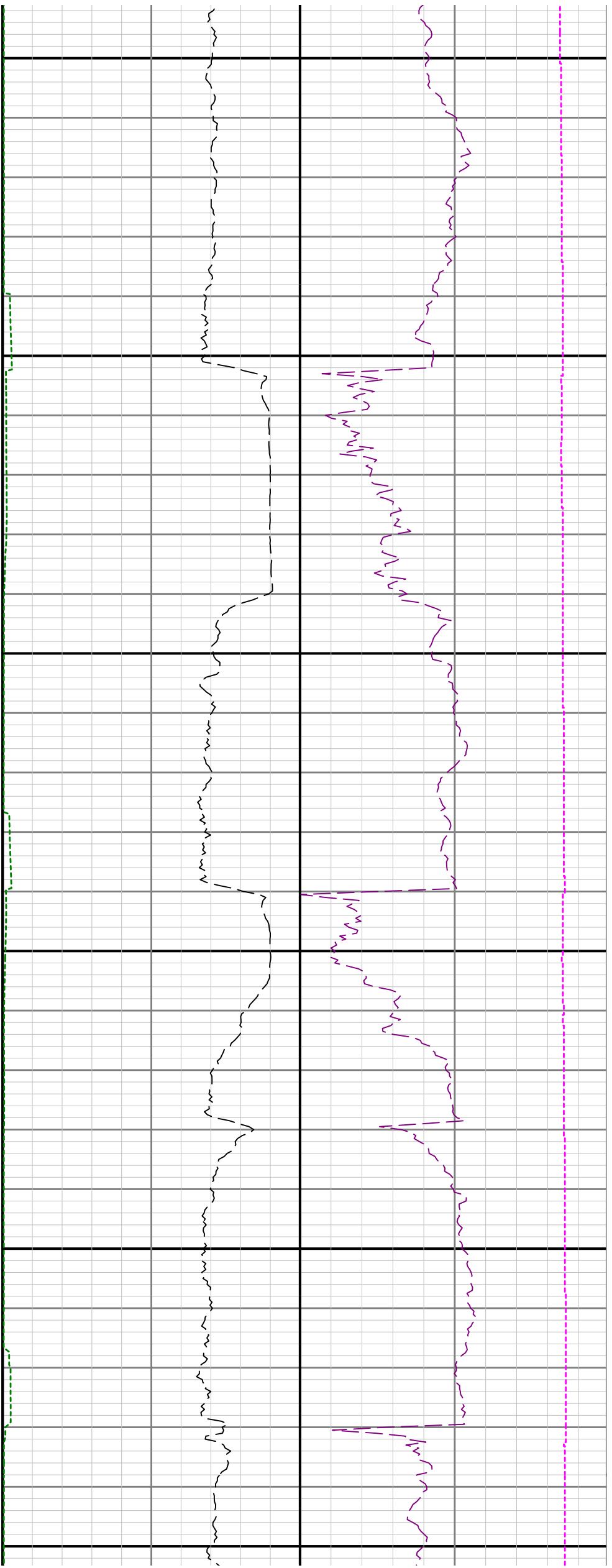


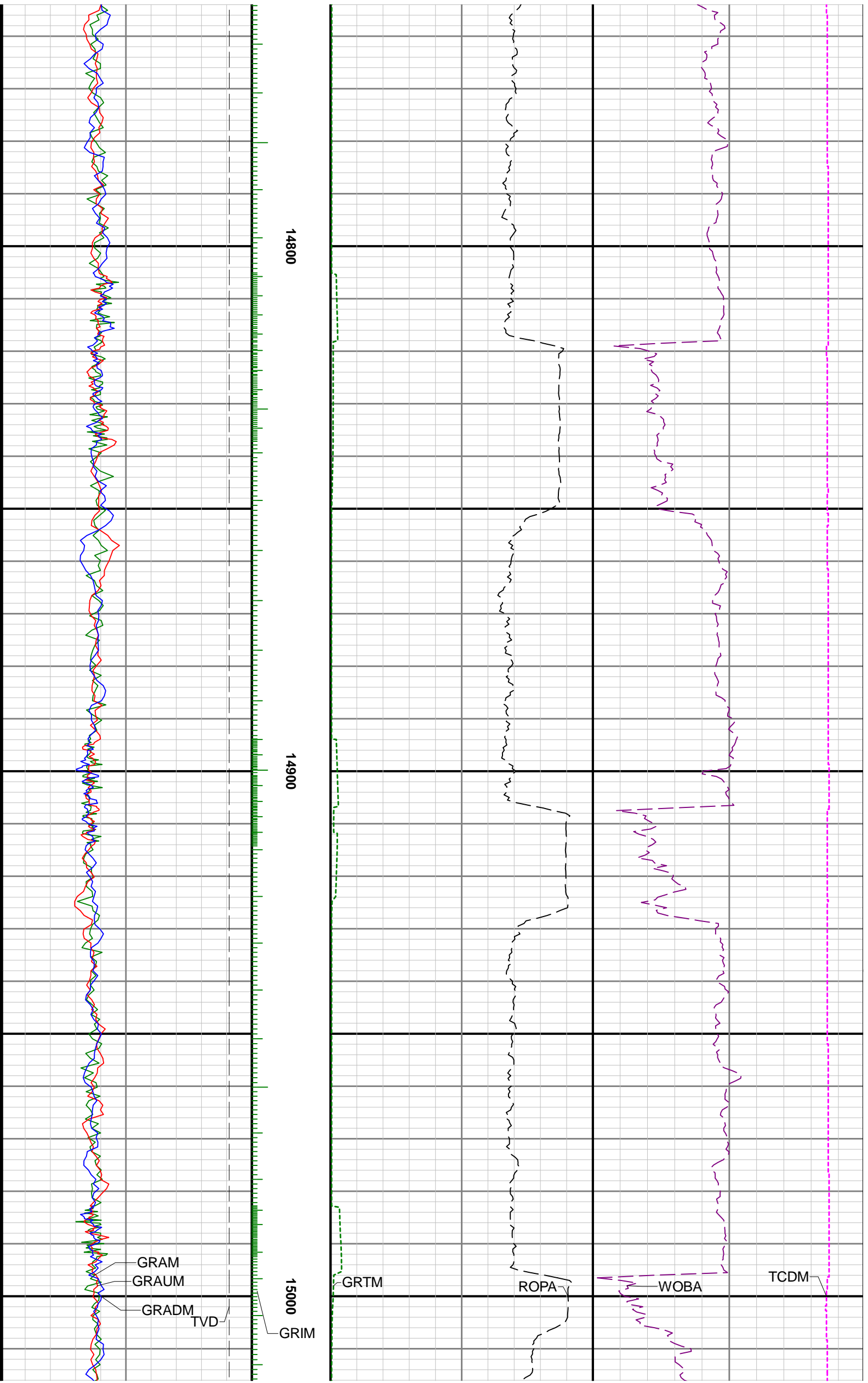


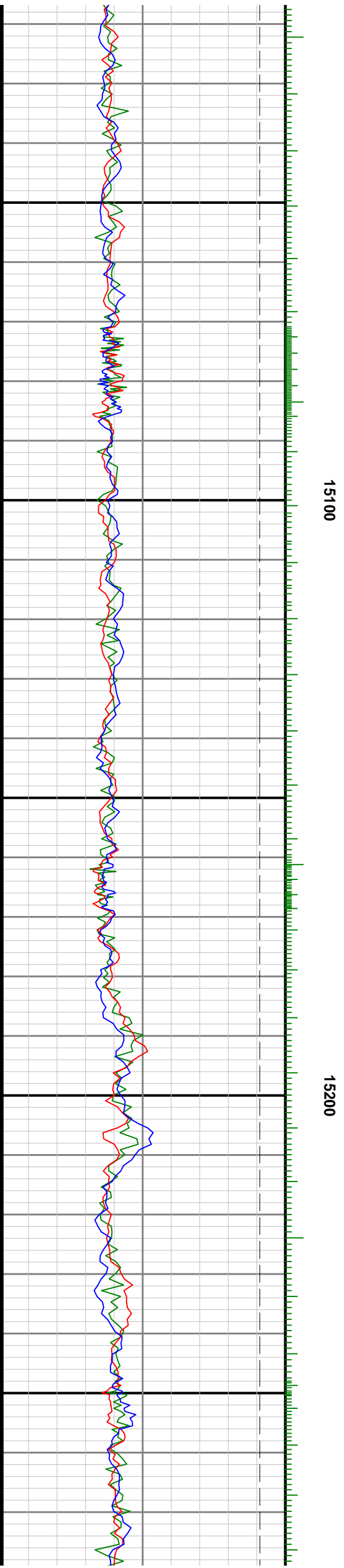
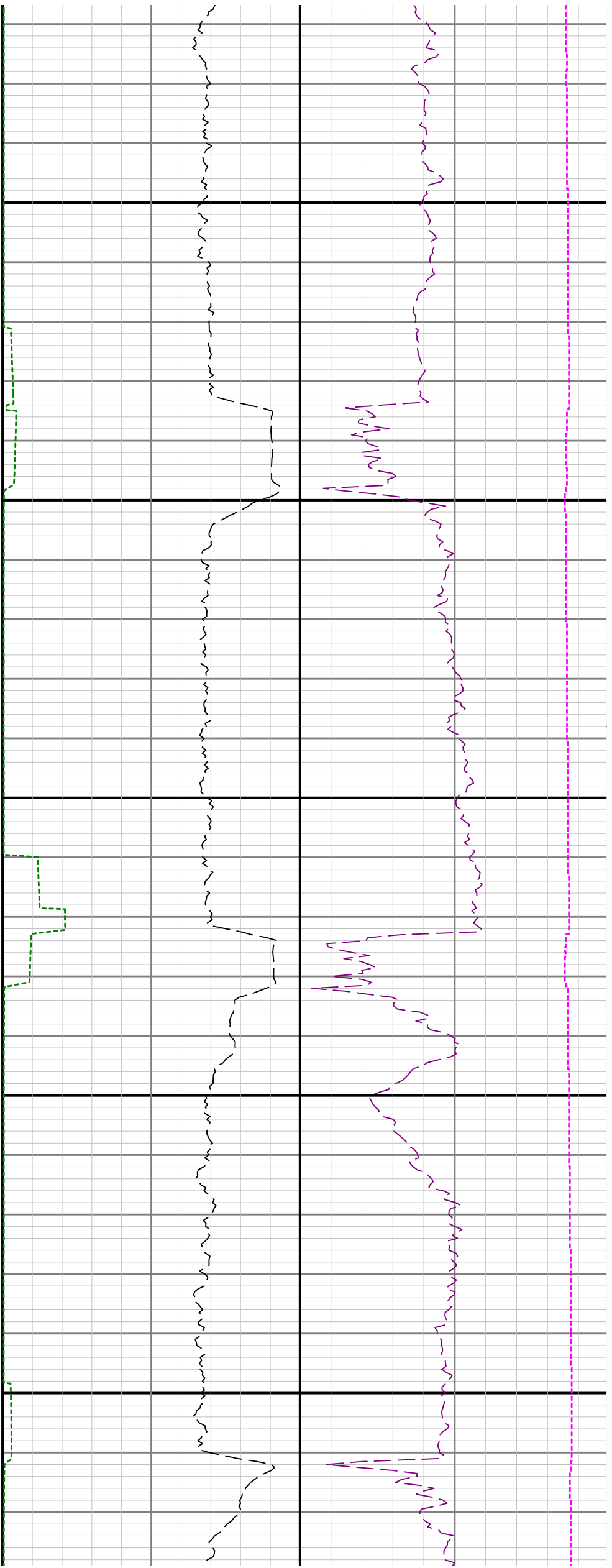


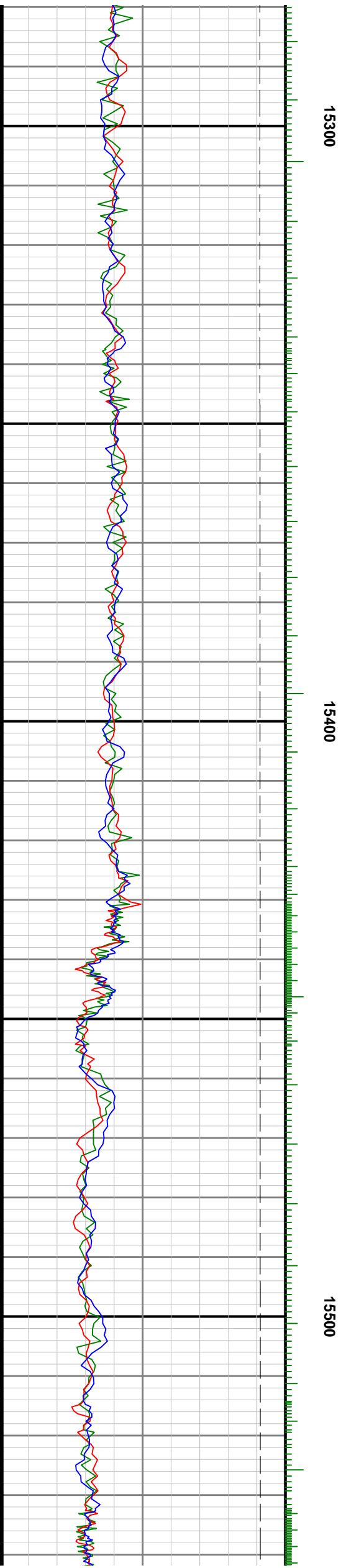
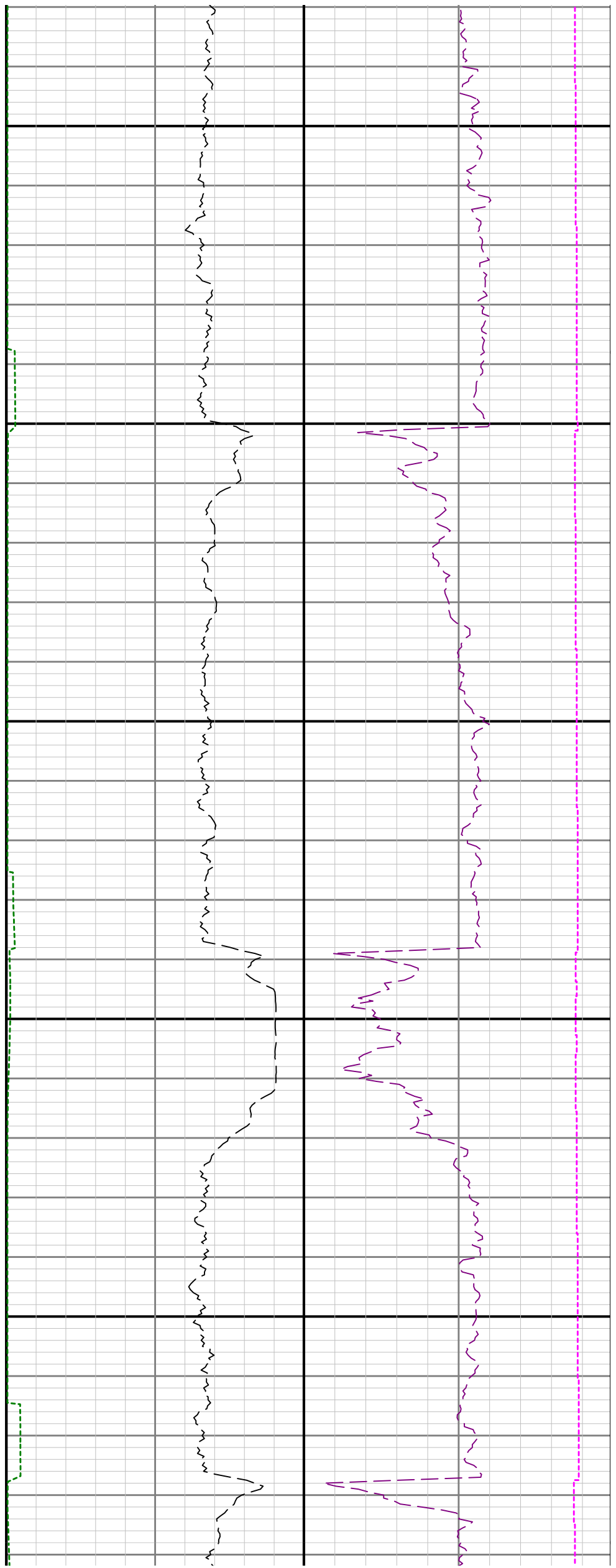


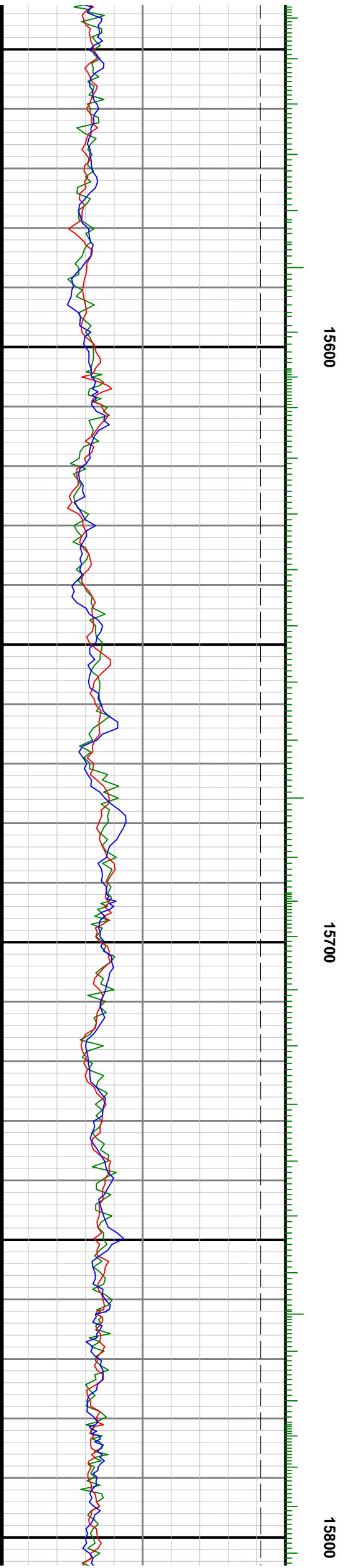
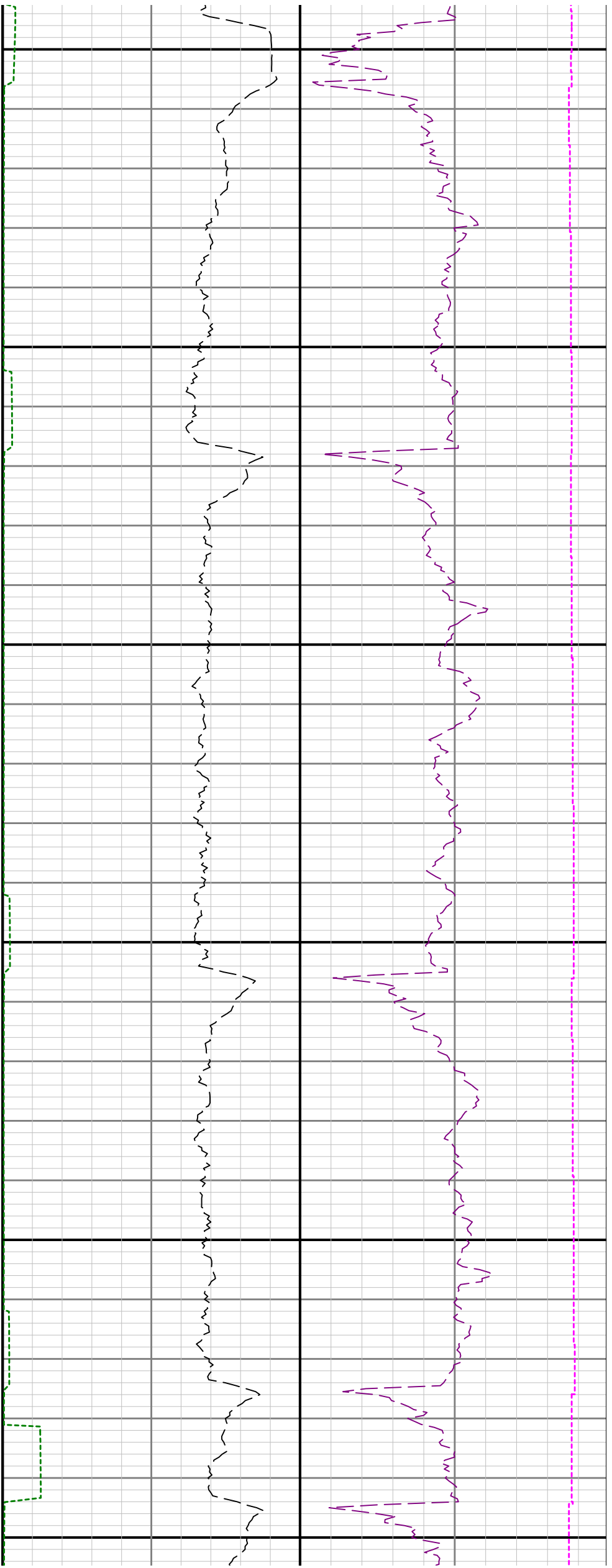


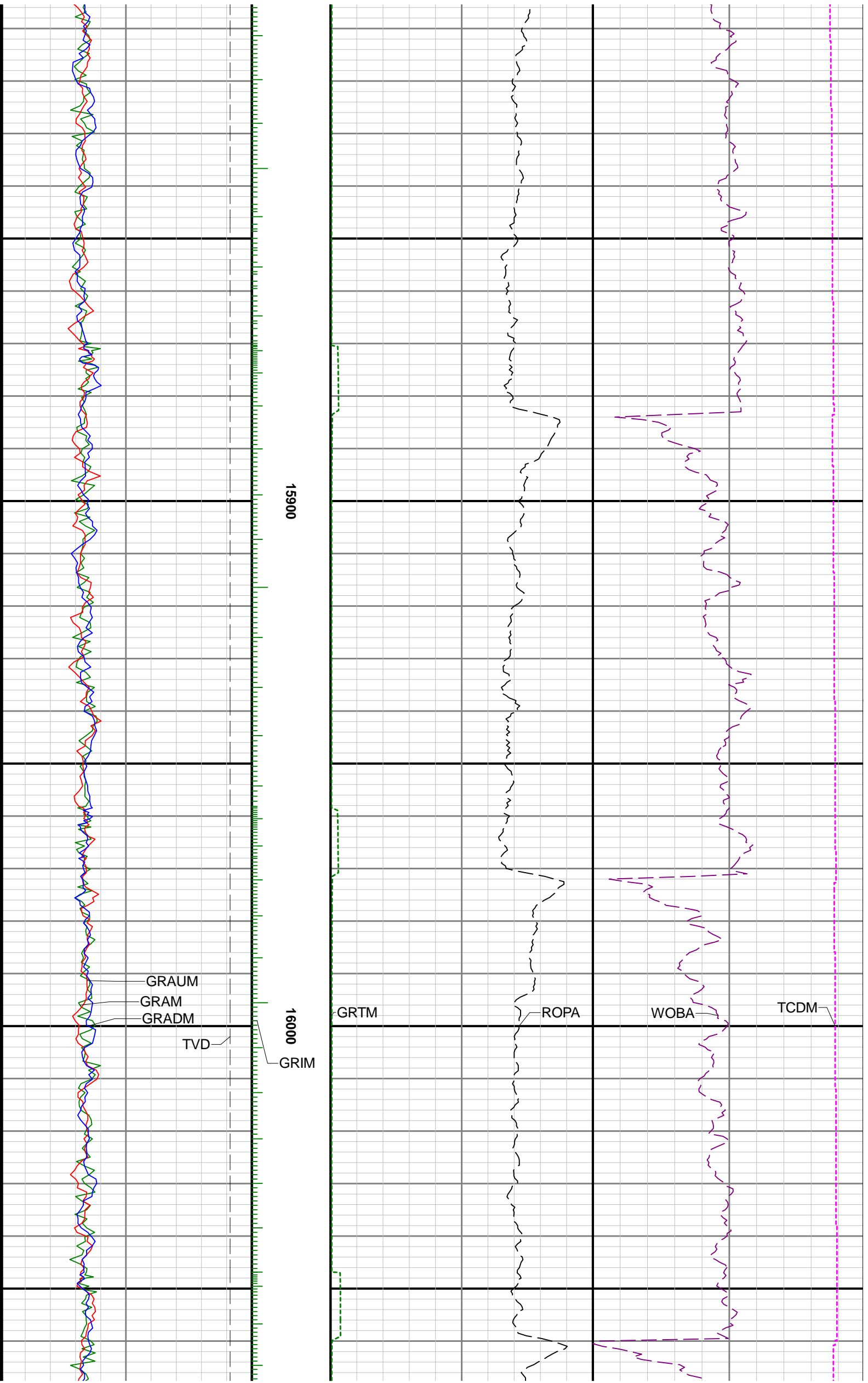


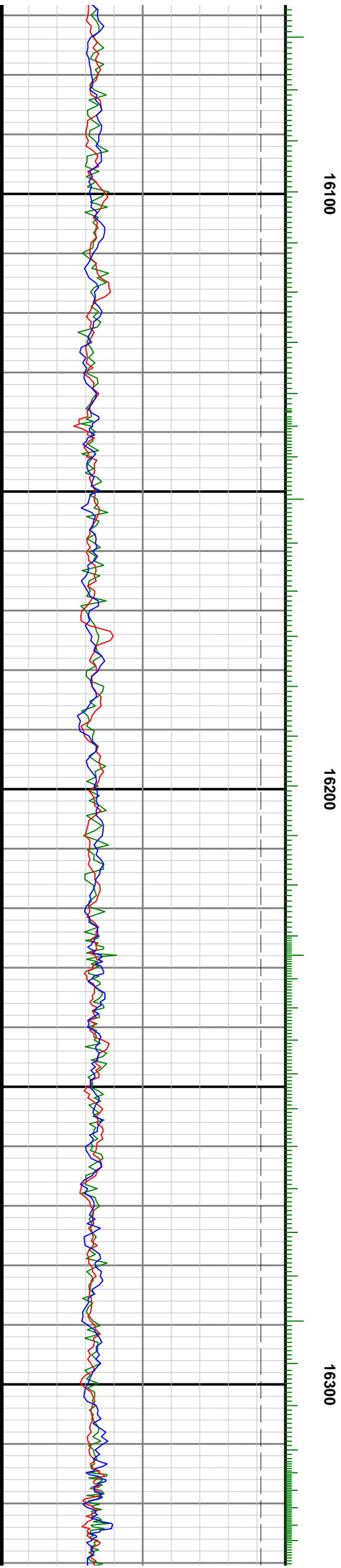
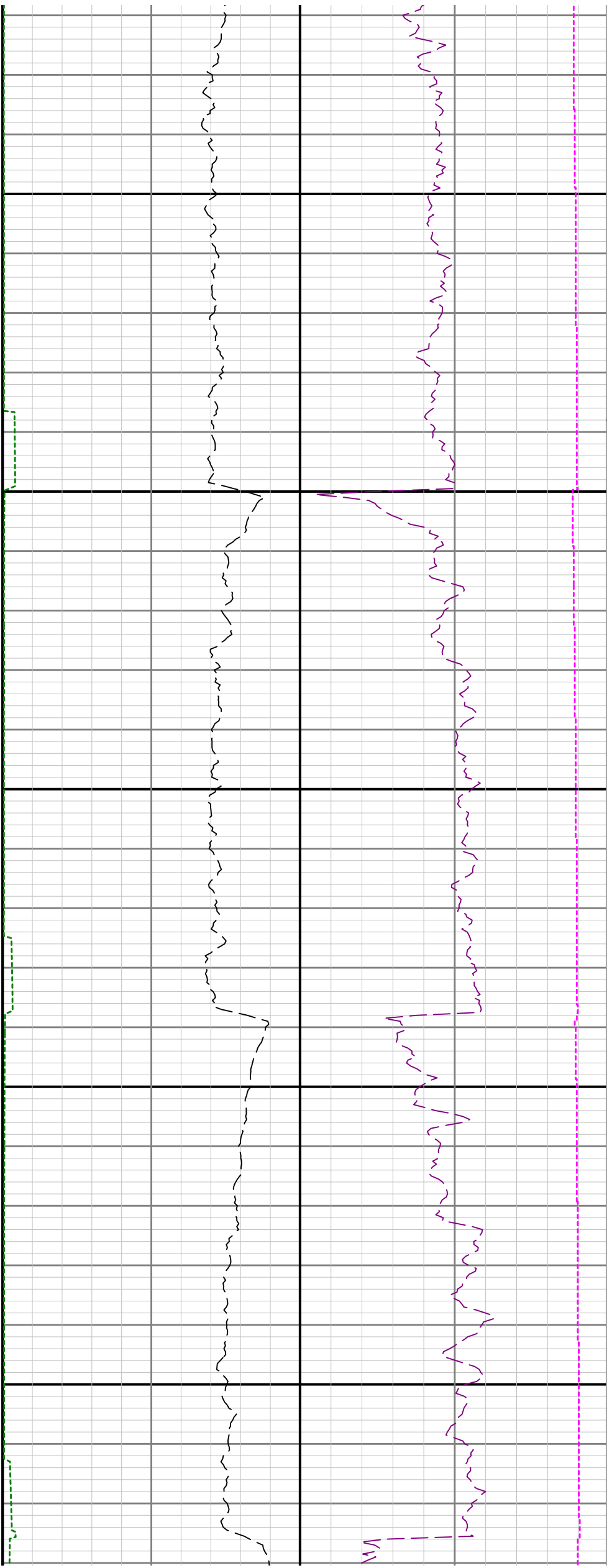


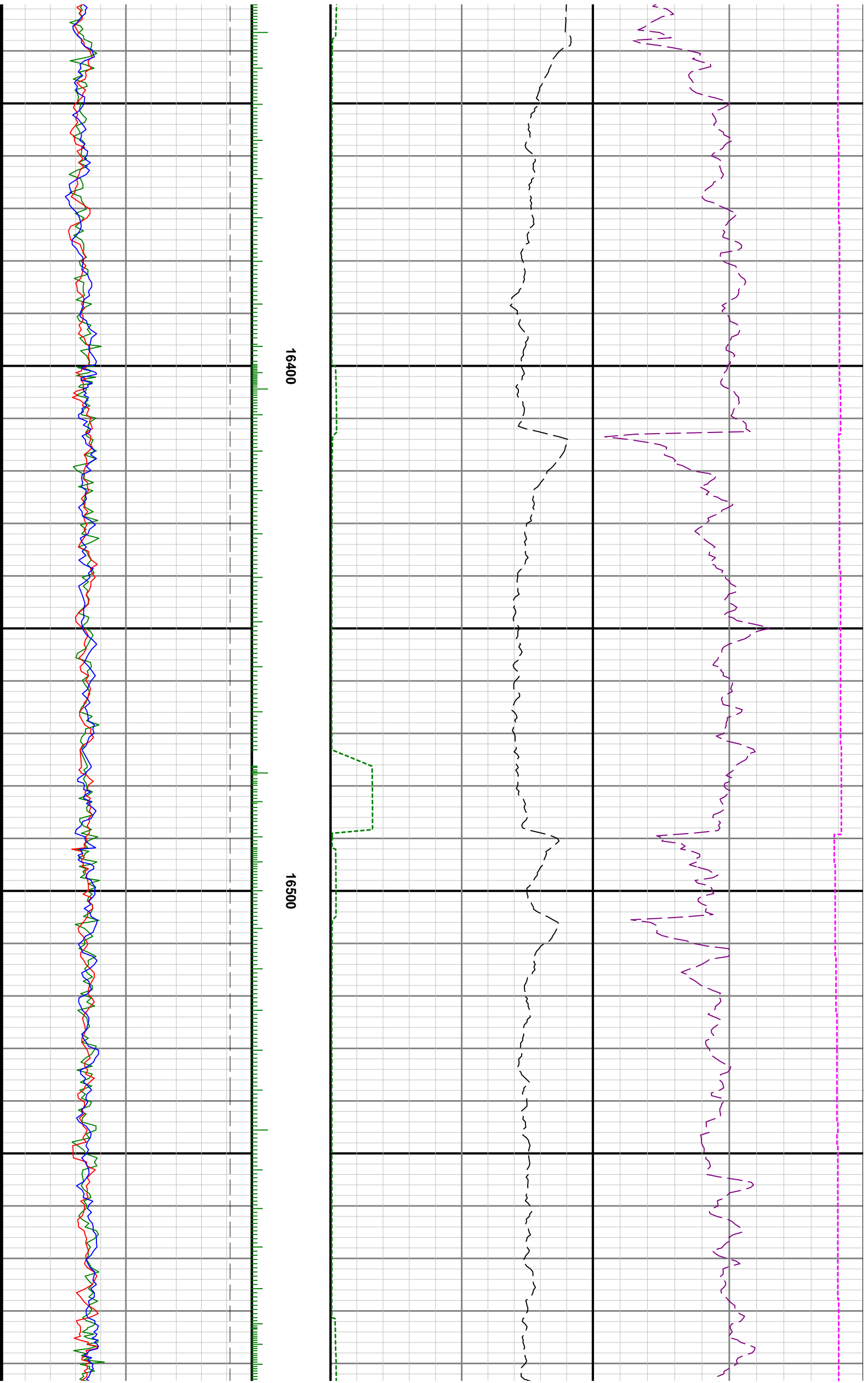


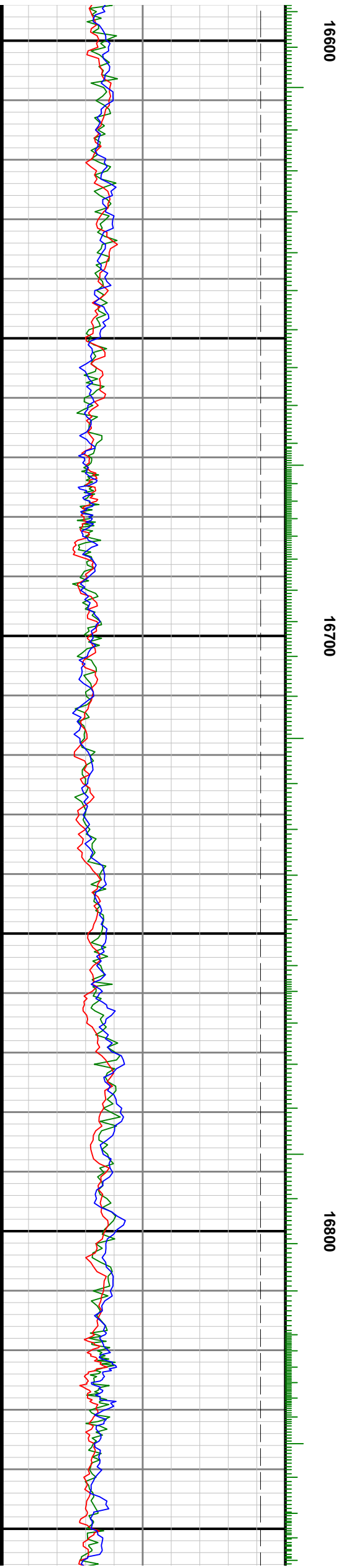
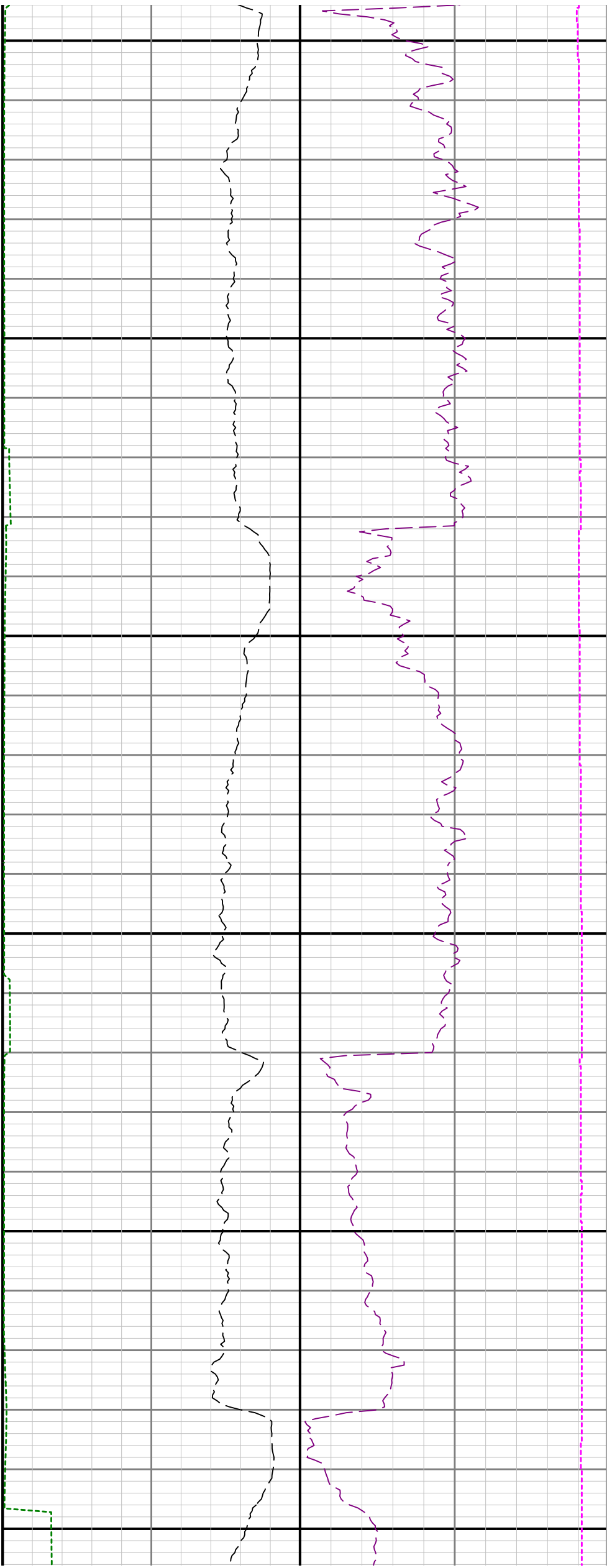


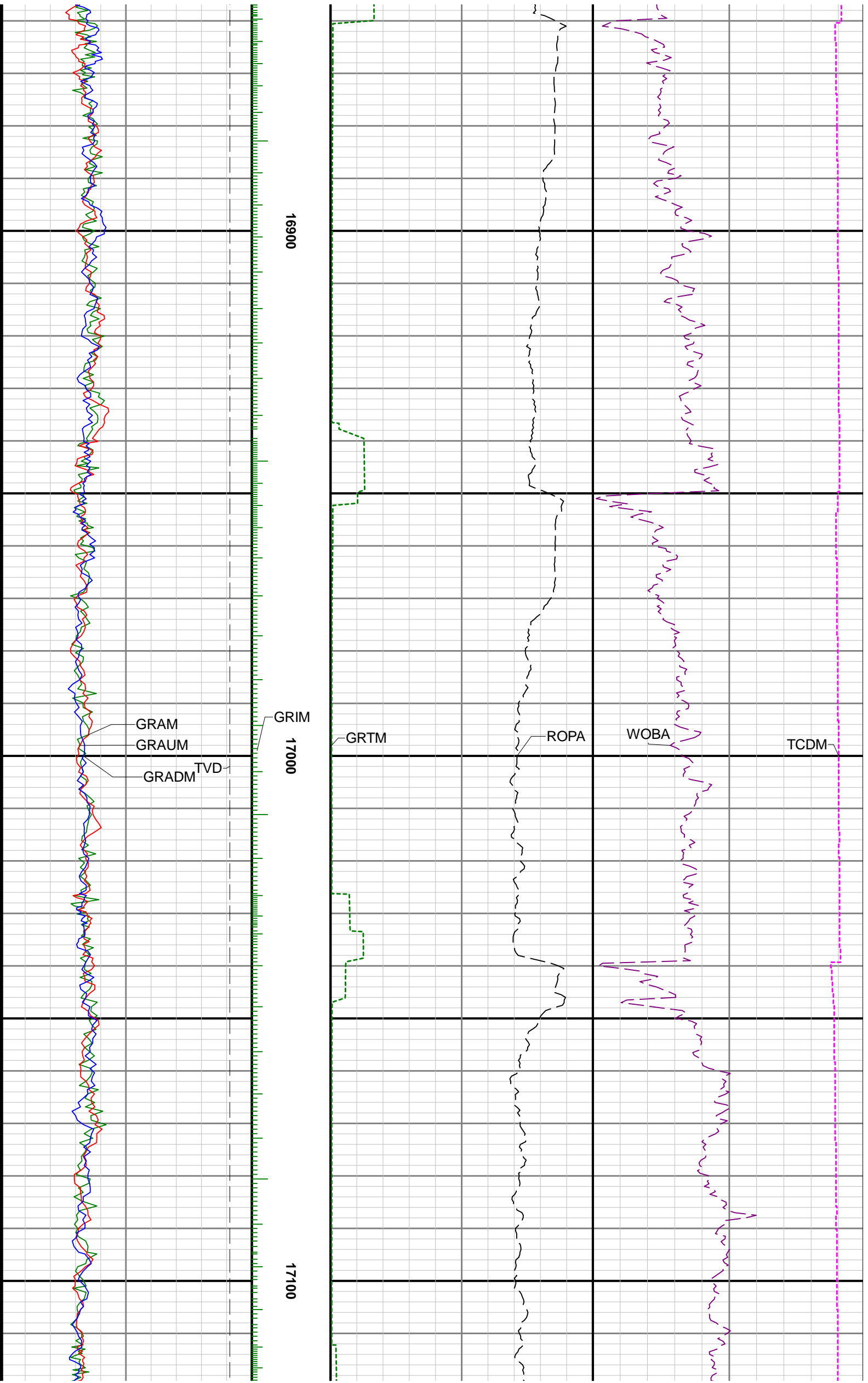


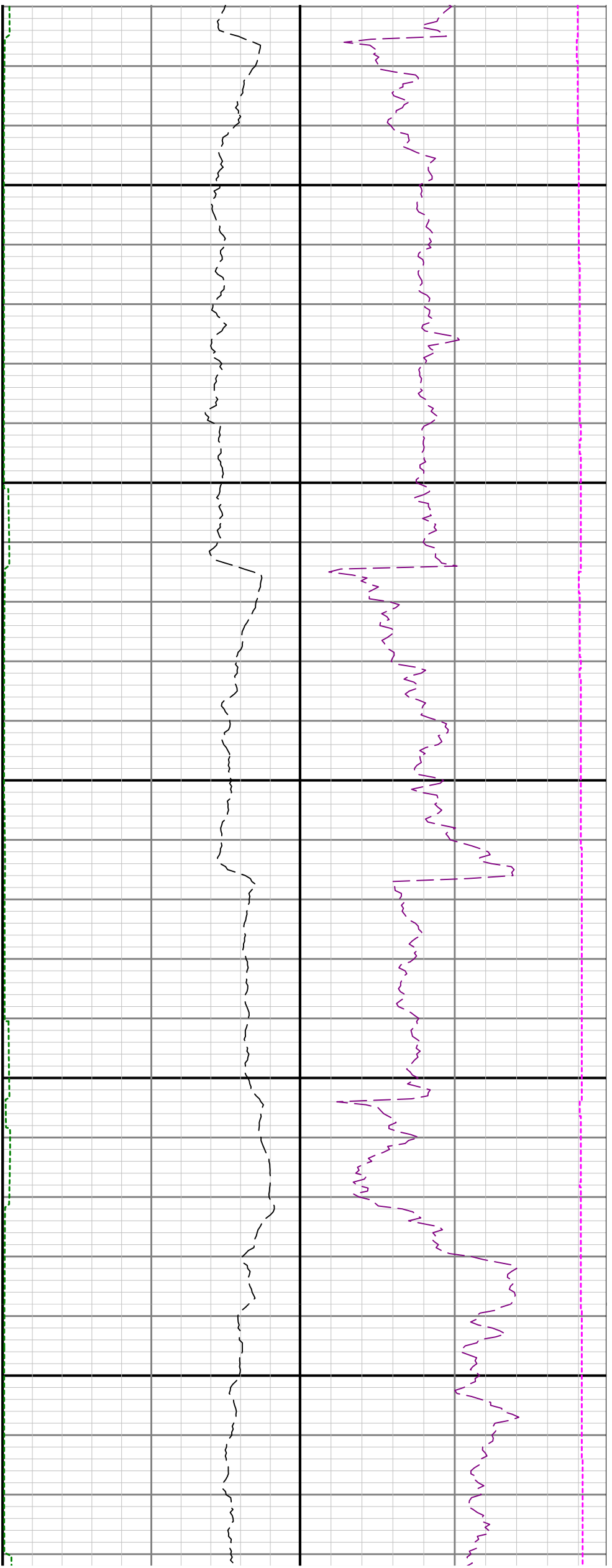












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