

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	4.00	Steerable	0.00	0.00	100.00	1550.00	2017-05-18 15:46	2017-05-19 00:26	6.55
2	2	8.500	PDC	3.00	Rotary Steerable	1550.00	11973.00	1550.00	7689.00	2017-06-14 23:59	2017-06-18 15:56	78.98

Crew								
Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Enyonam Anyigba	2017-05-18	2017-06-19	Steve Bueghly	2017-05-18	2017-06-19			


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+ (%)
2017-05-18 03:30		1	100.00	Water Based Mud	8.6	1	8.7	N/A	0/100	Active Pit	800	0.00
2017-06-14 20:08		2	1550.00	Water Based Mud	8.6	1	8.7	N/A	0/100	Suction	700	0.00
2017-06-15 18:57		2	4449.00	Water Based Mud	8.7	1	8.5	N/A	0/100	Suction	900	0.00
2017-06-16 21:37		2	7152.00	Water Based Mud	9.8	12	9.5	N/A	0/100	Active Pit	1800	0.00
2017-06-17 19:50		2	9332.00	Water Based Mud	10.0	12	9.3	N/A	0/100	Active Pit	1800	0.00

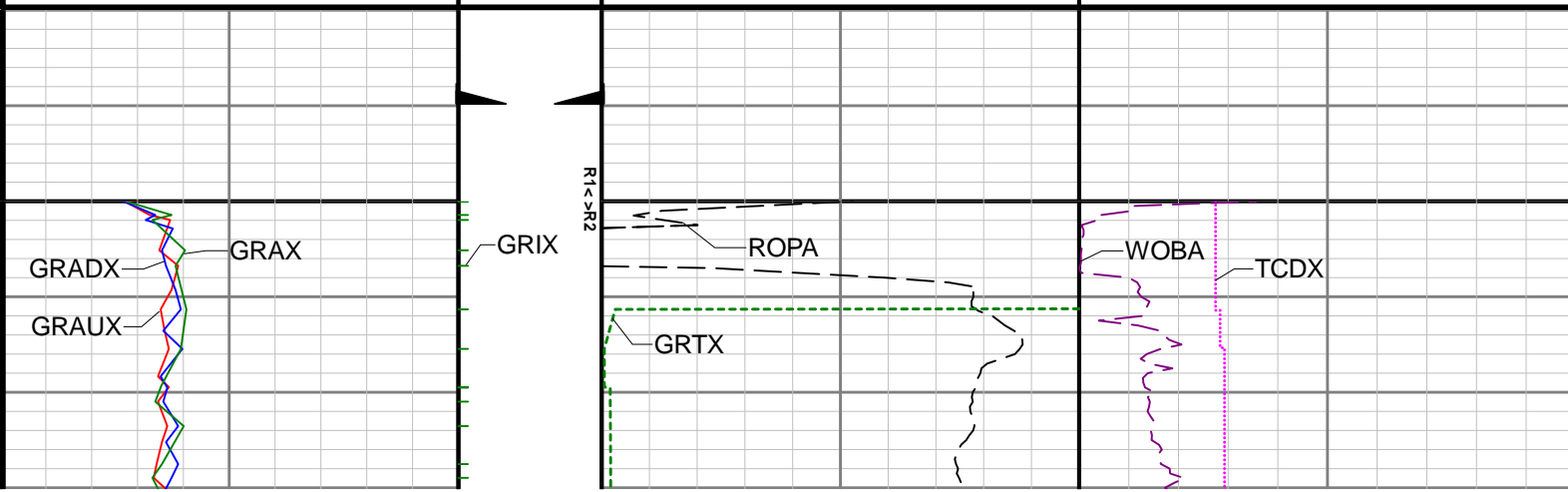
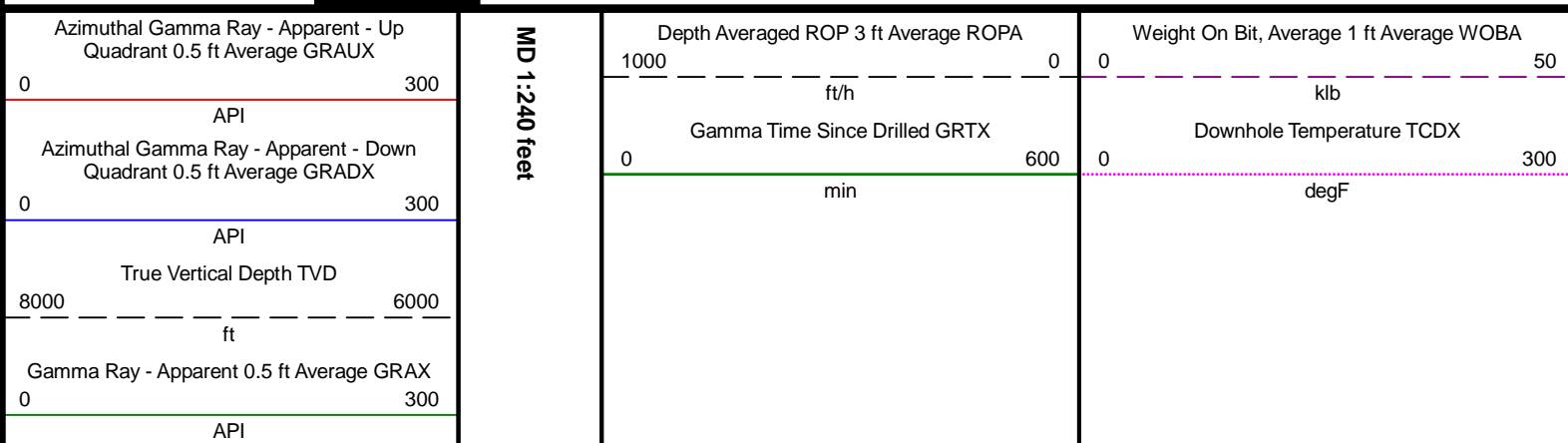
Equipment and Service Data							
Run No.	Tool	Serial Number	Measurement	Sensor Offset (ft)	Bit Offset (ft)	Max O.D. (in)	Min I.D. (in)
1	NaviTrak	12813116	Directional (mag)	14.46	50.33	8.000	3.250
1	NaviTrak	12813116	VSS	14.46	50.33	8.000	3.250
2	ATC_SU	11781619	Near Bit VSS	5.93	6.69	7.000	4.330
2	ATC_SU	11781619	Near Bit Inclination	5.93	6.69	7.000	4.330
2	ATC_MWD	12141334	Gamma (single)	2.86	12.86	7.000	3.250
2	ATC_MWD	12141334	Directional (mag)	12.27	22.27	7.000	3.250

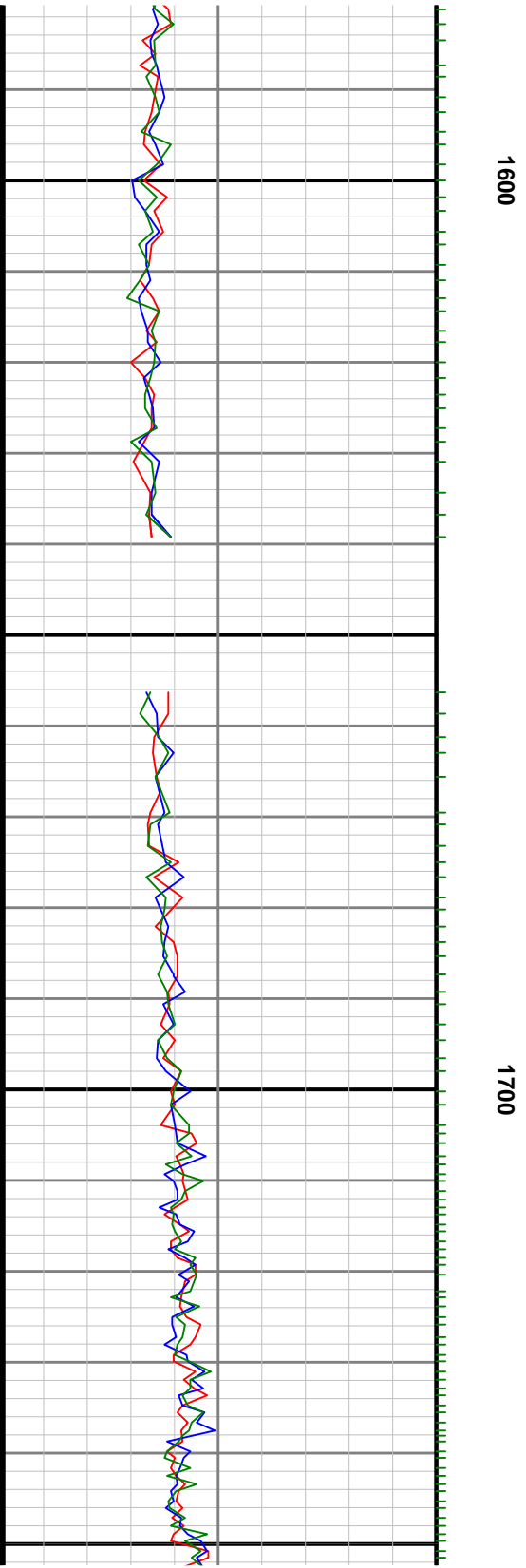
Service and Tool Mnemonics		
Mnemonic	Name	Description
NTK	NaviTrak	Probe Based Directional Module, NaviTrak Platform
ATC_SU	ATC_SU	Auto Trak Curve Steering Unit
ATC_MWD	ATC_MWD	Auto Trak Curve MWD
ATC_LCPM	ATC_LCPM	Auto Trak Curve LCPM

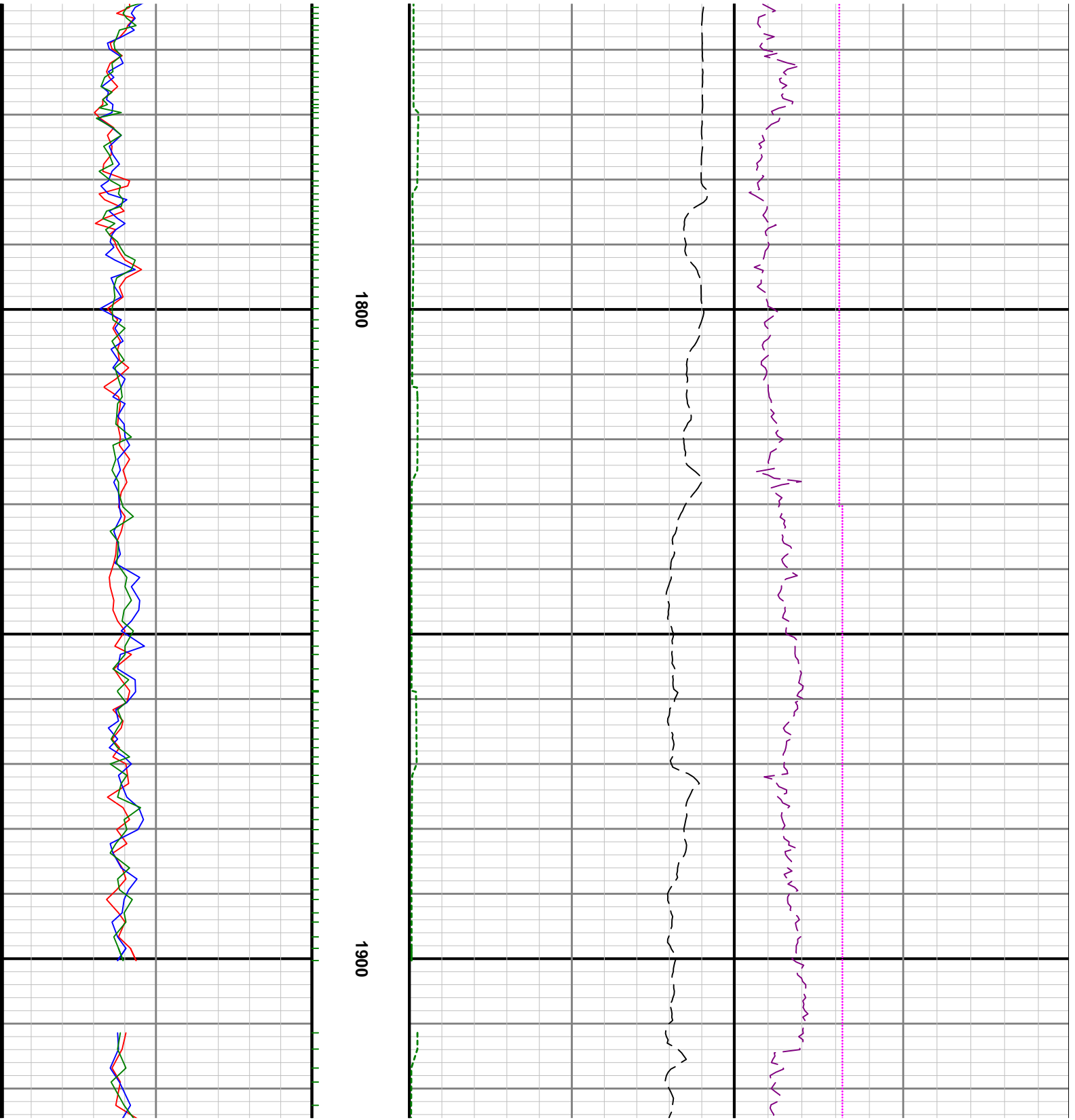
Curve Mnemonics

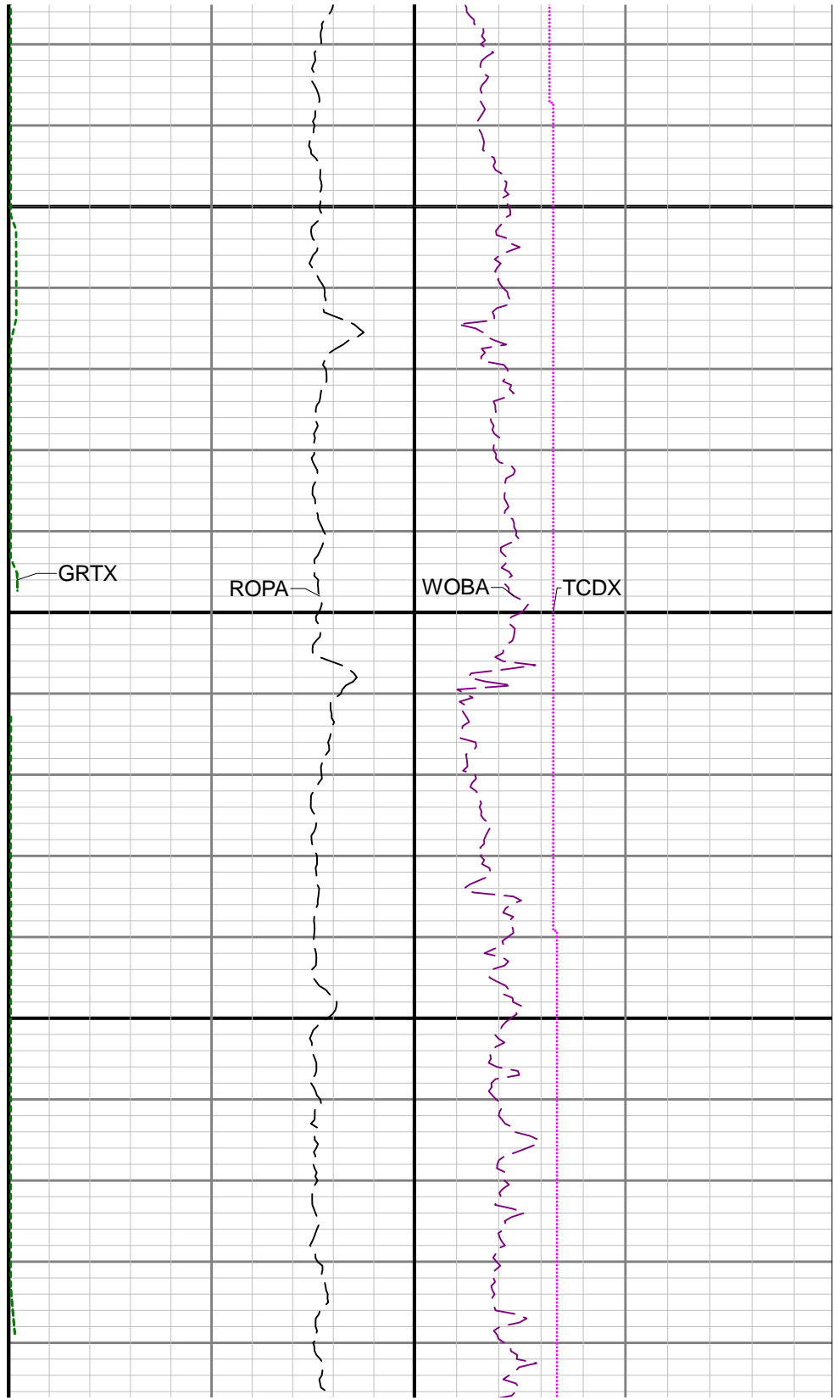
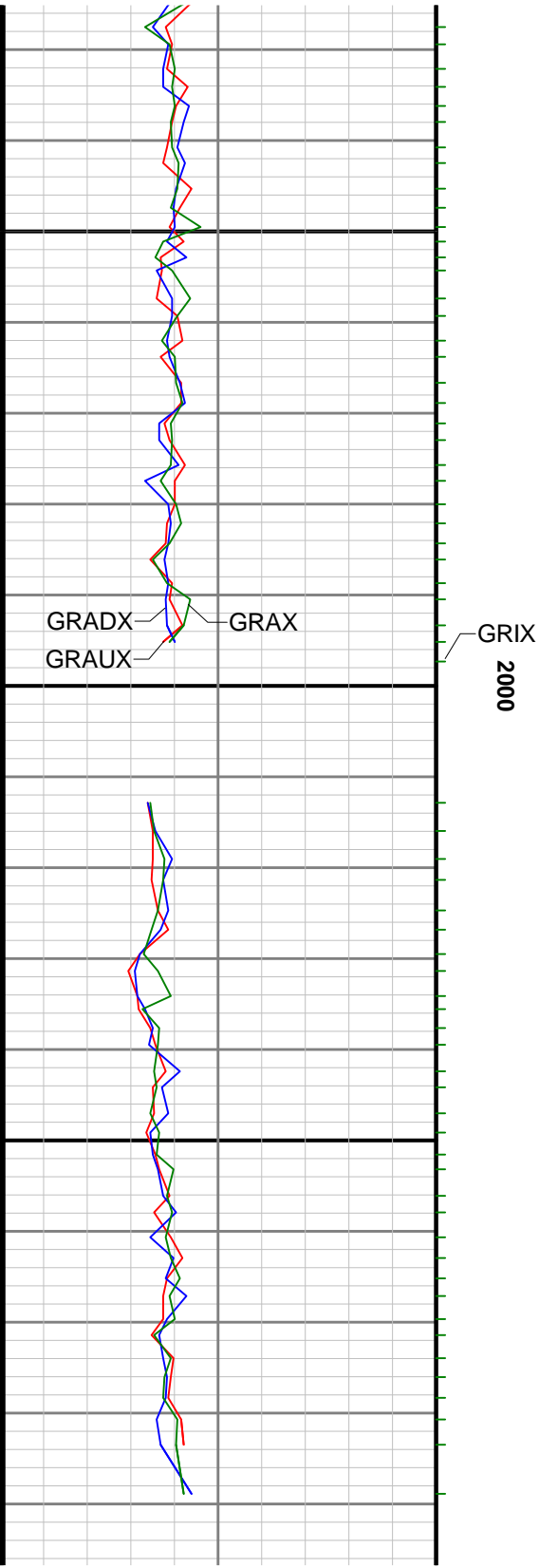
Presented Curves	Description	Units
GRADX	OnTrak - Gamma Ray - Apparent - Down Quadrant - Real-Time 0.5 ft Average	API
GRAUX	OnTrak - Gamma Ray - Apparent - Up Quadrant - Real-Time 0.5 ft Average	API
TCDX	Downhole Temperature	degF
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA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

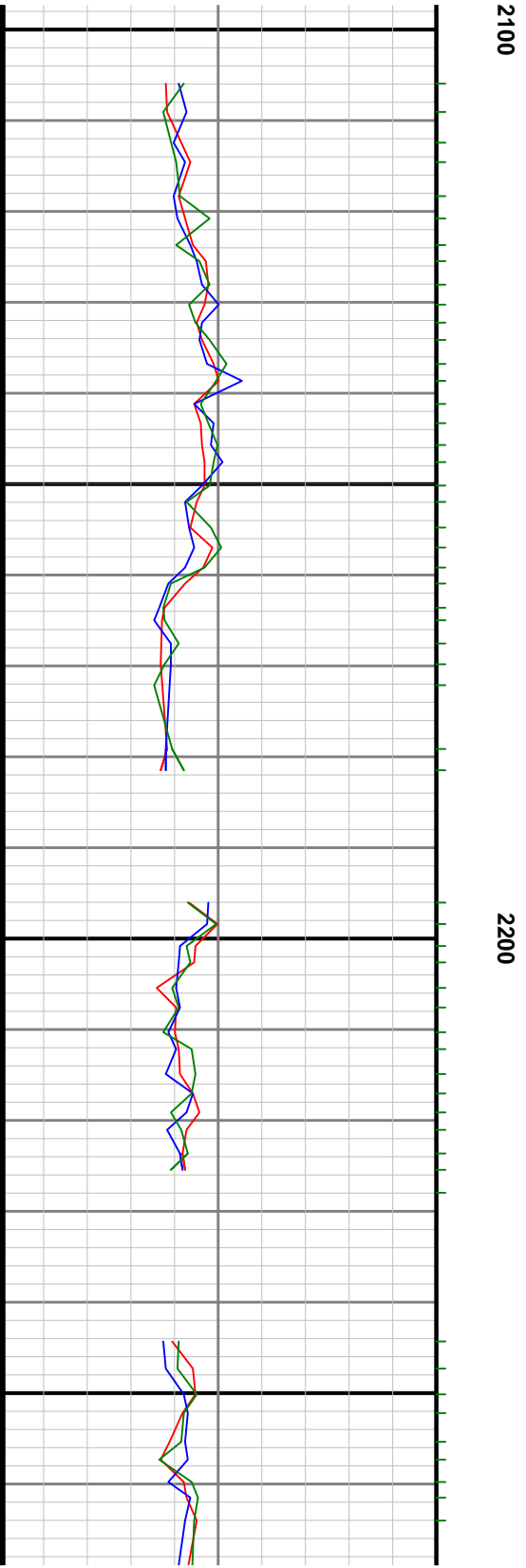
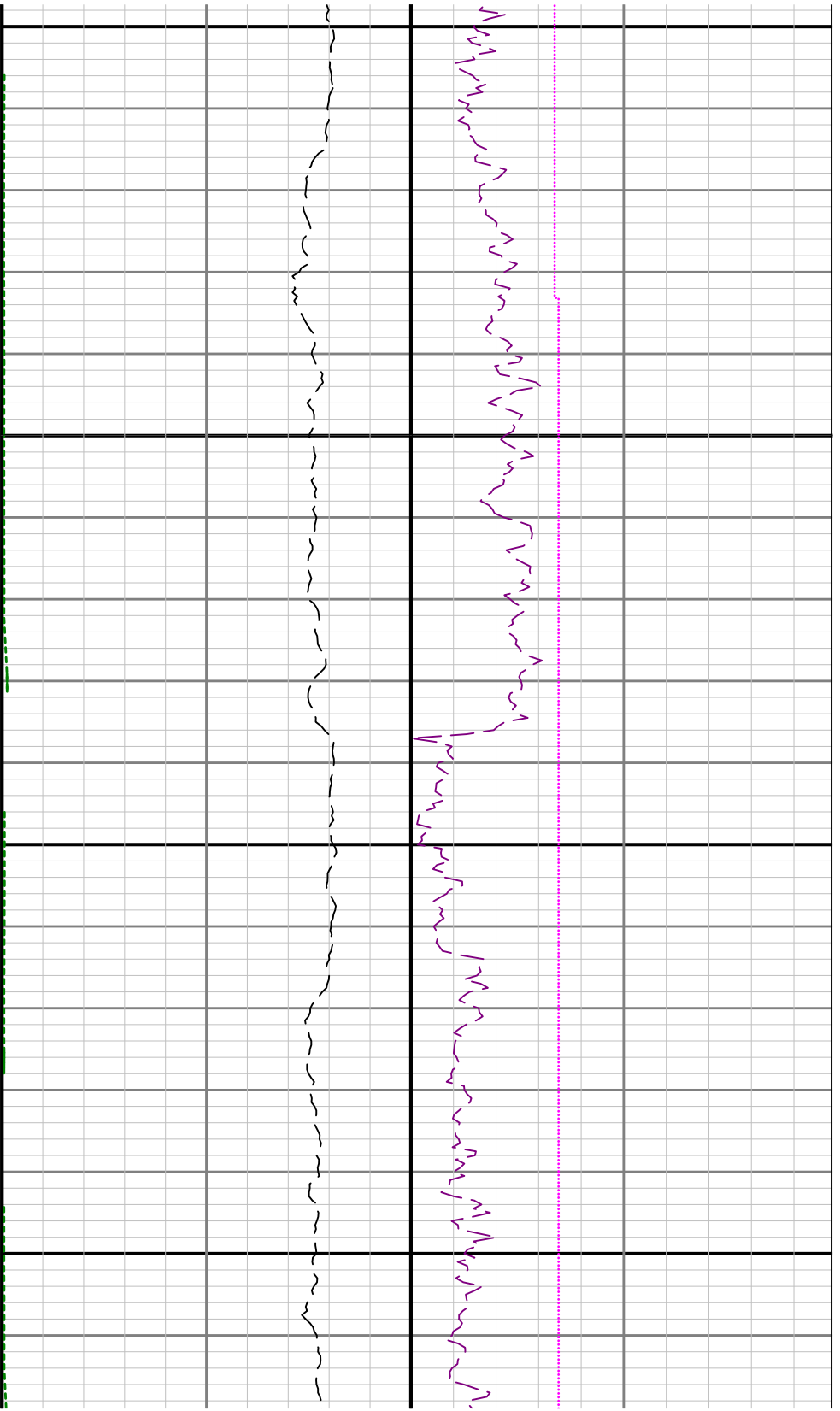
	Company	Cub Creek Energy, LLC			
	Well	Litzenberger 6			
	Interval	Date From:	2017-06-14 18:38:08	Top:	1550.00
	Created	Date To:	2017-06-18 00:06:44	Bottom:	11984.00
			2017-06-18 17:14:06		

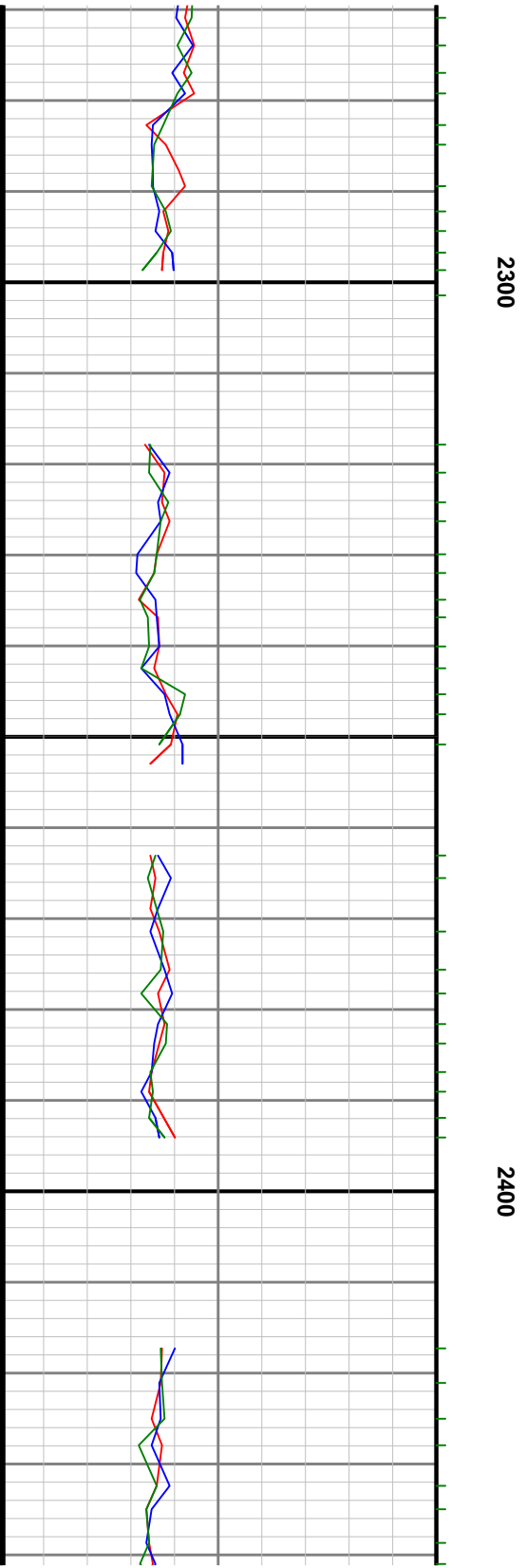
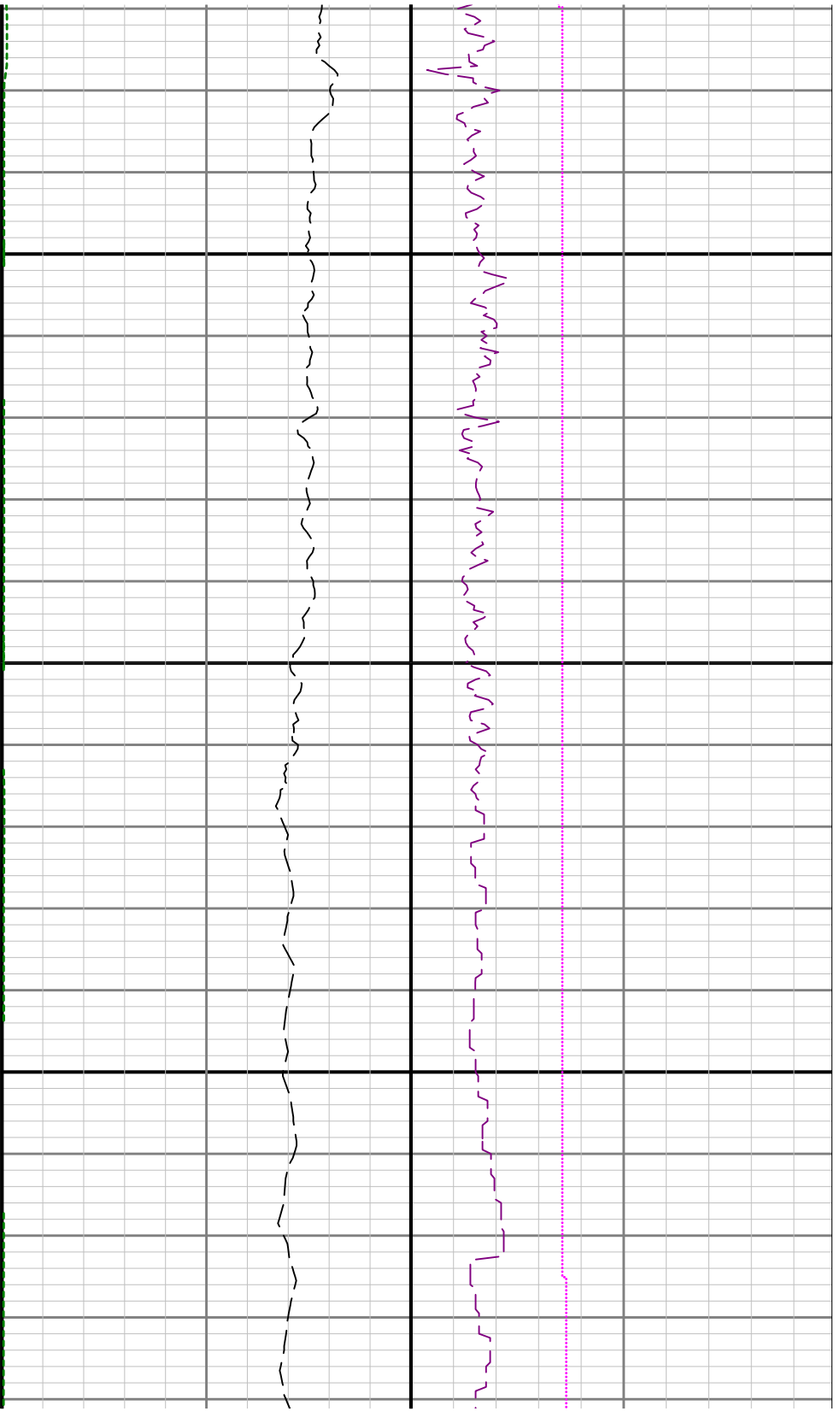


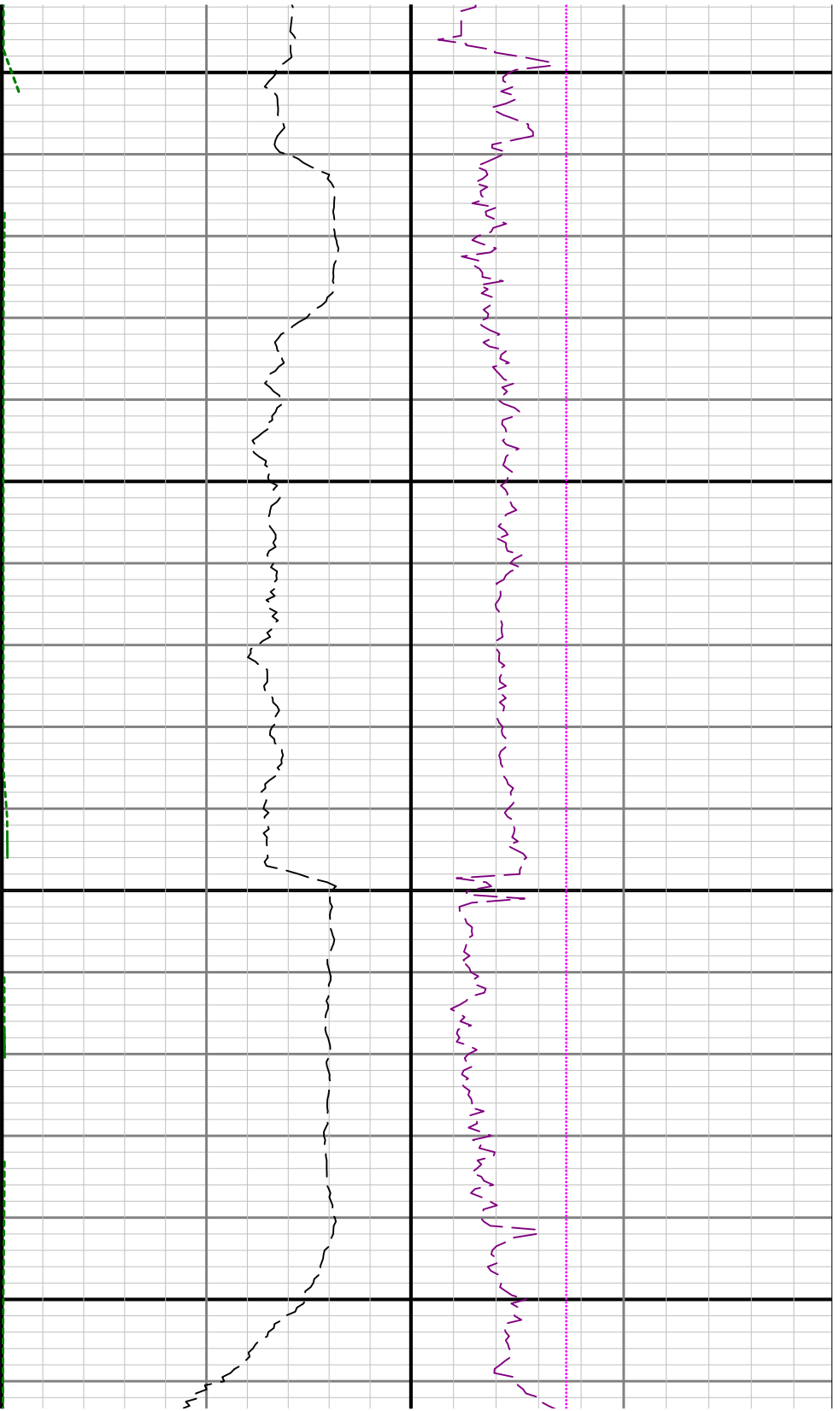


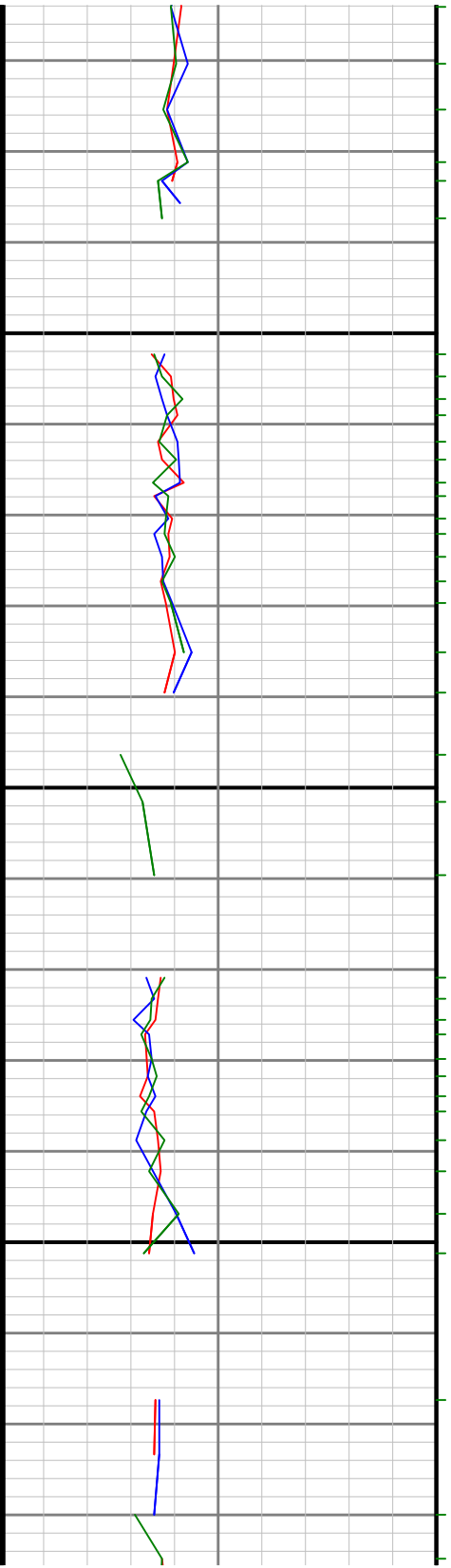
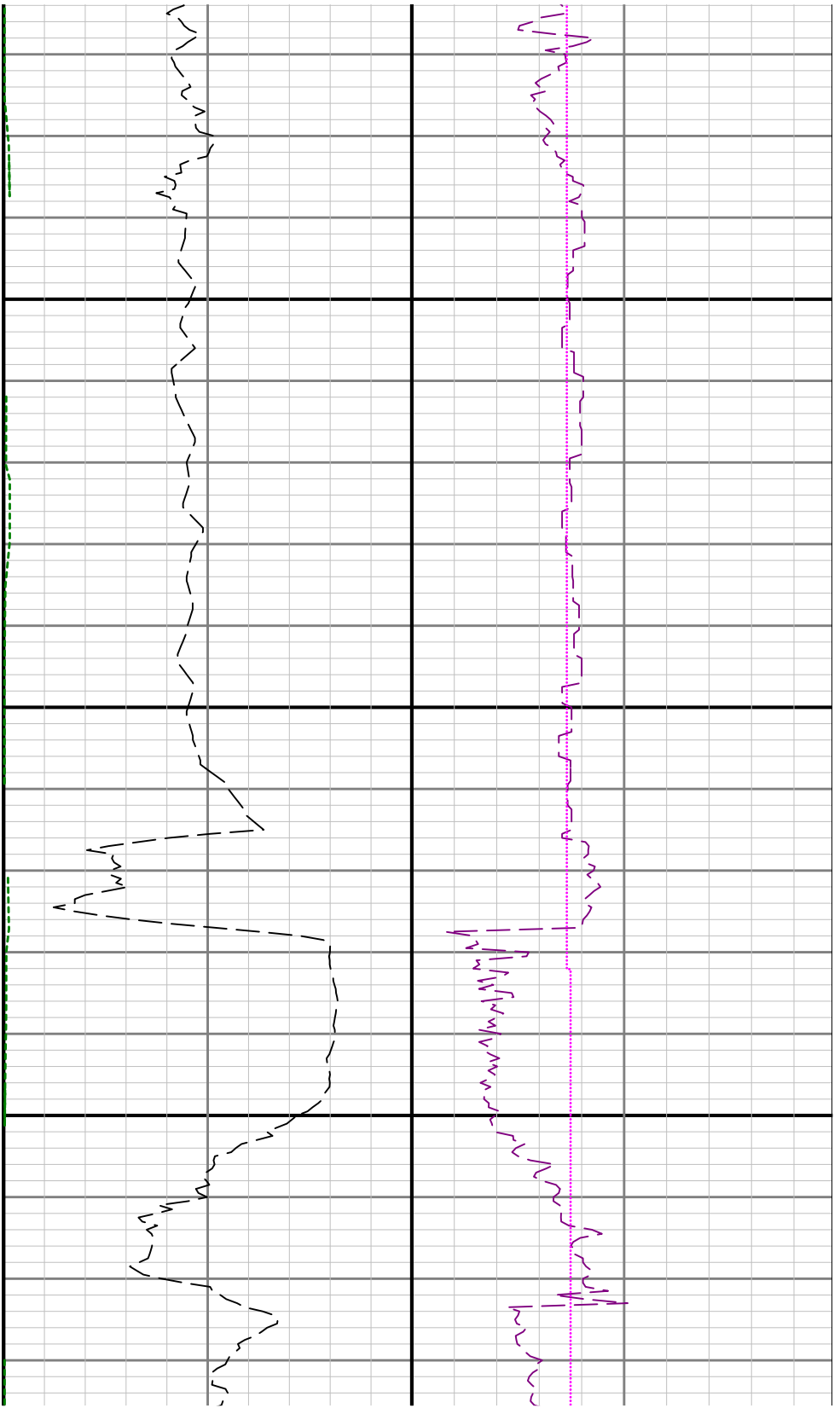


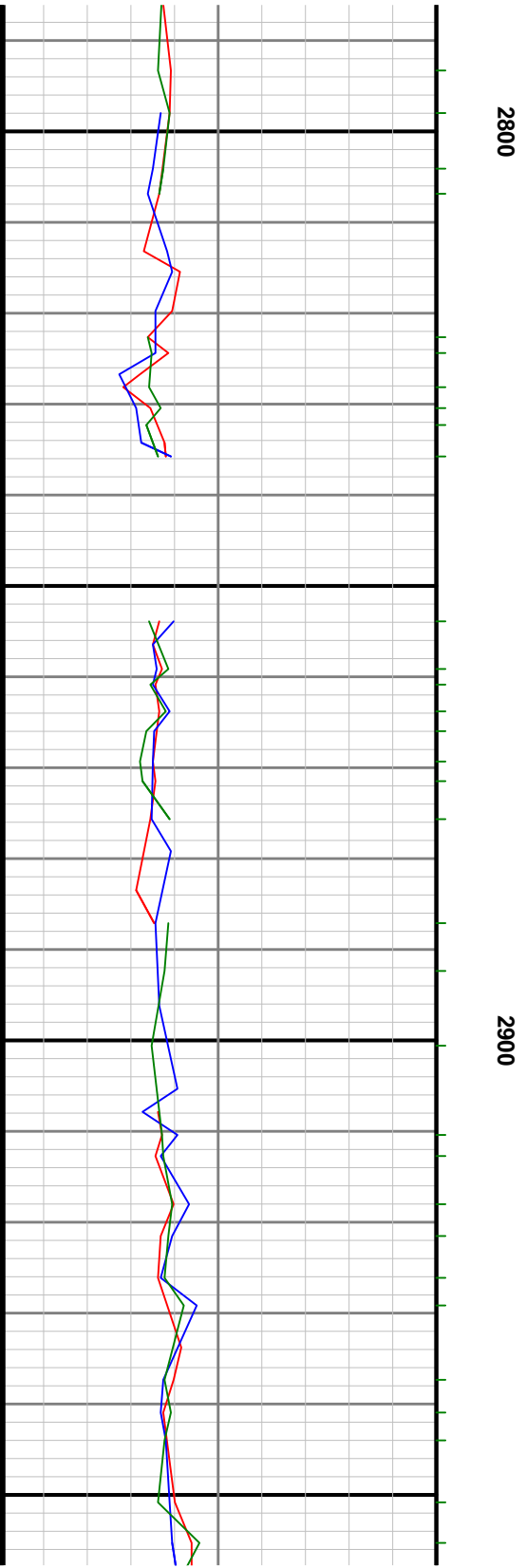
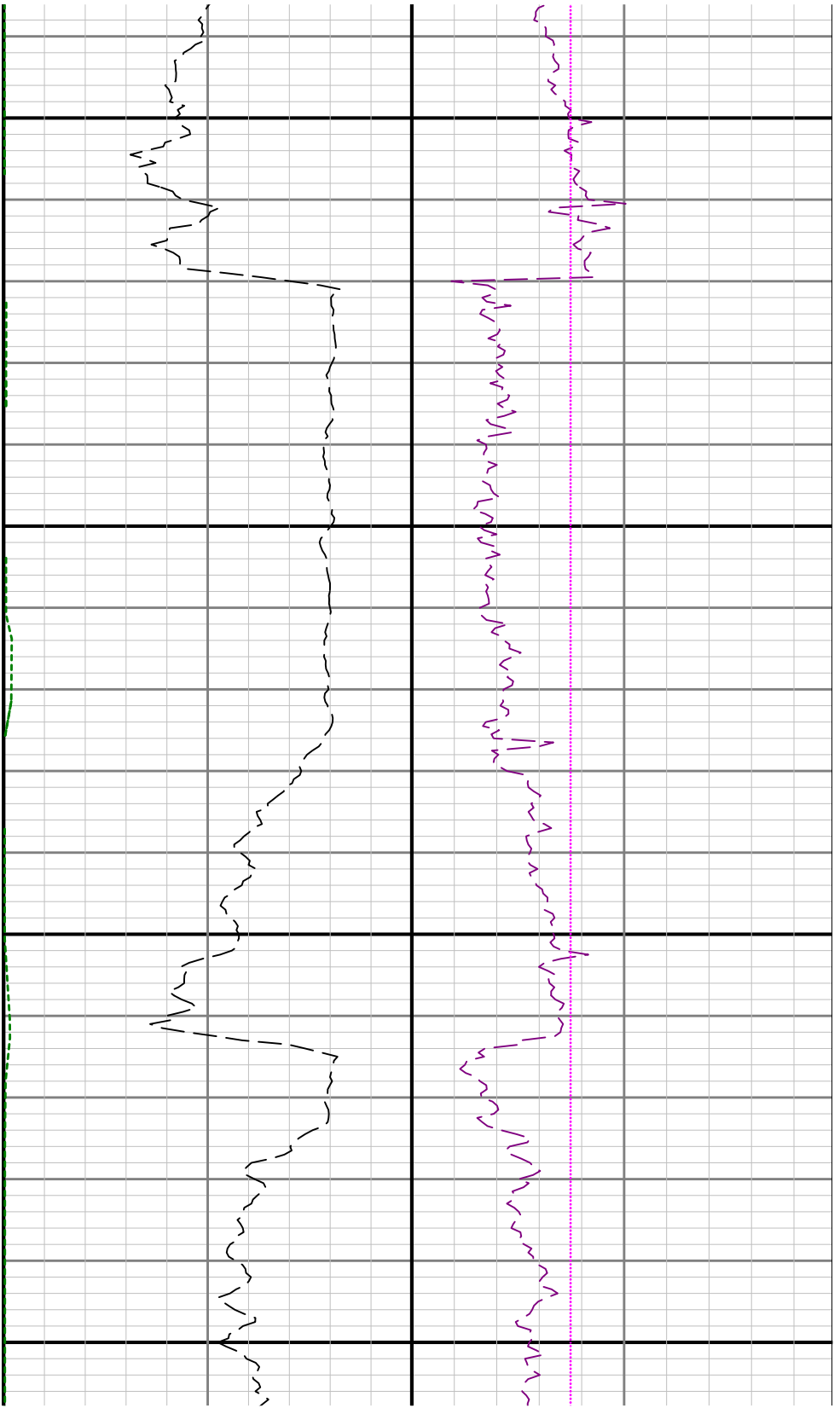


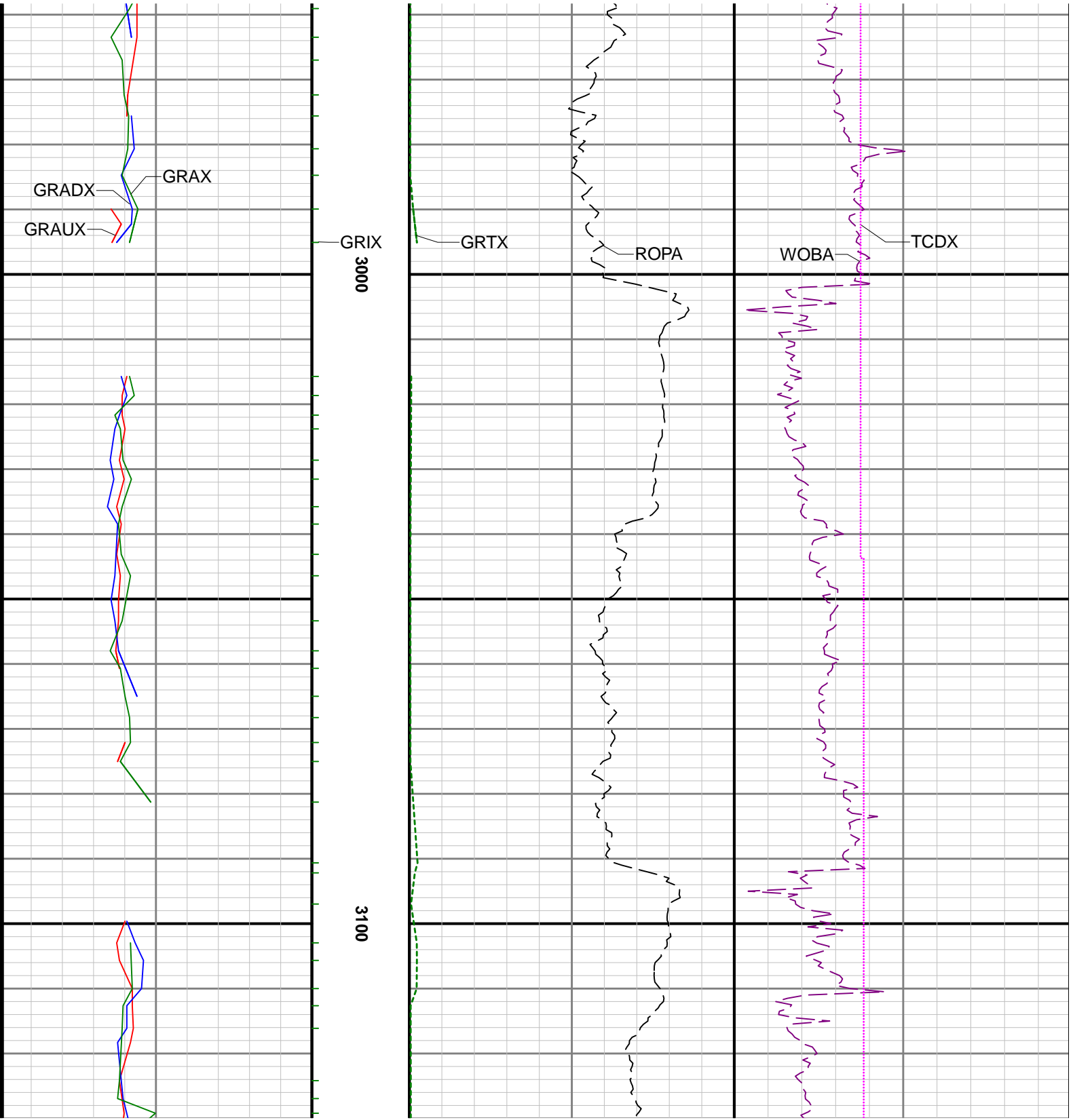


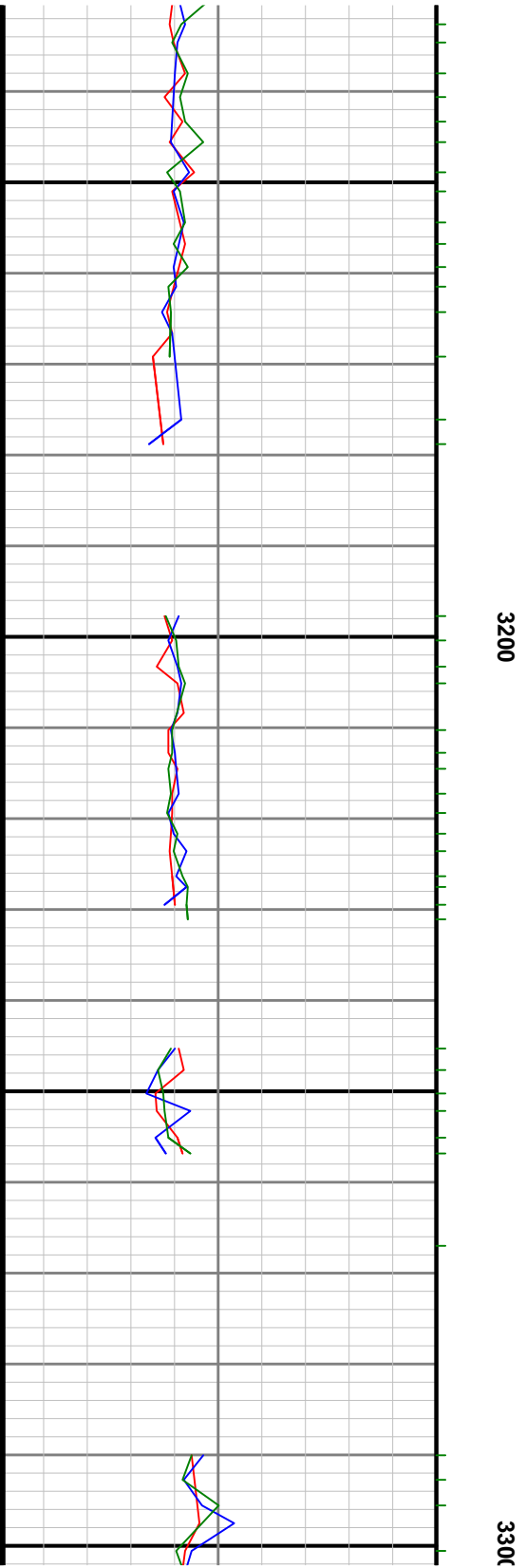
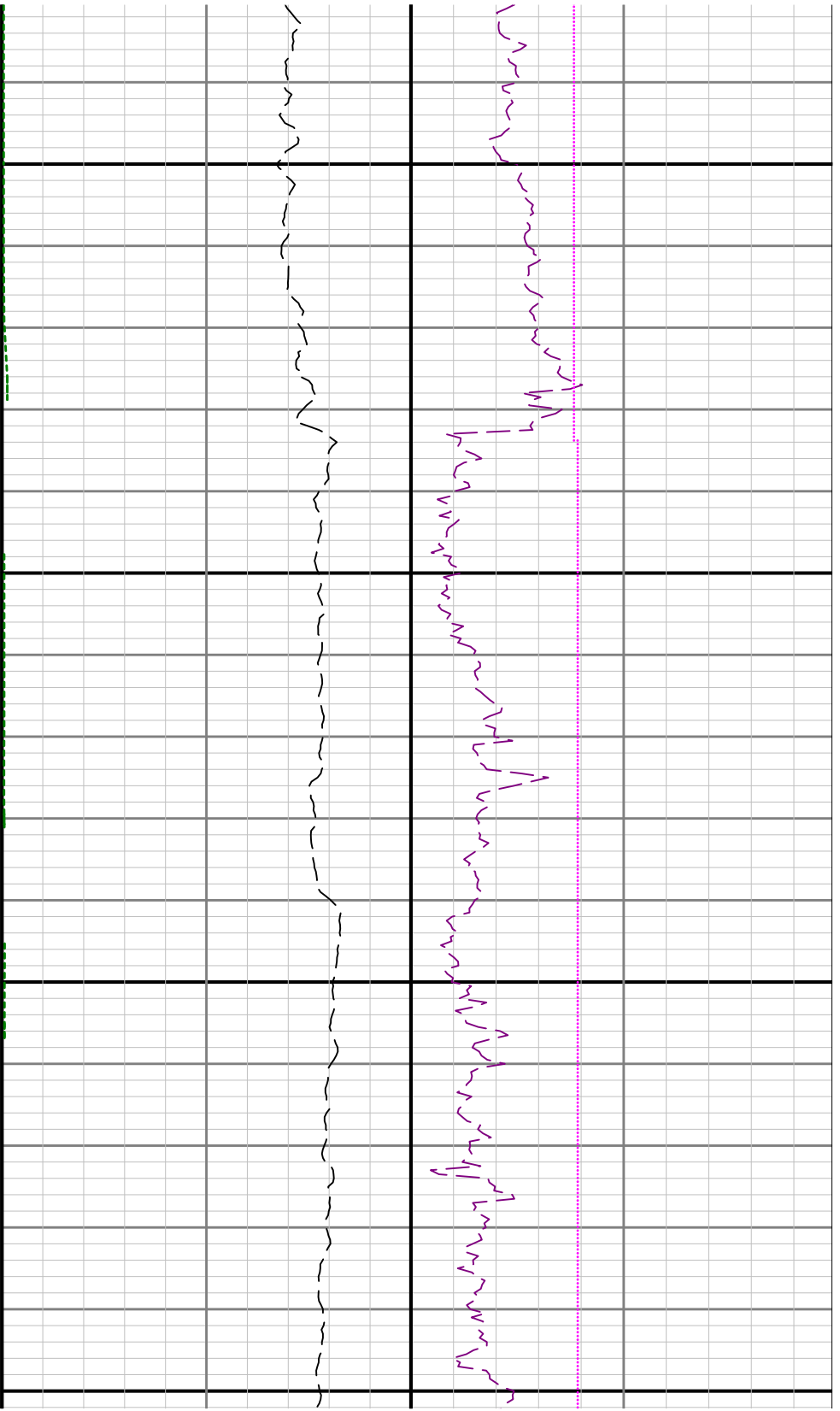


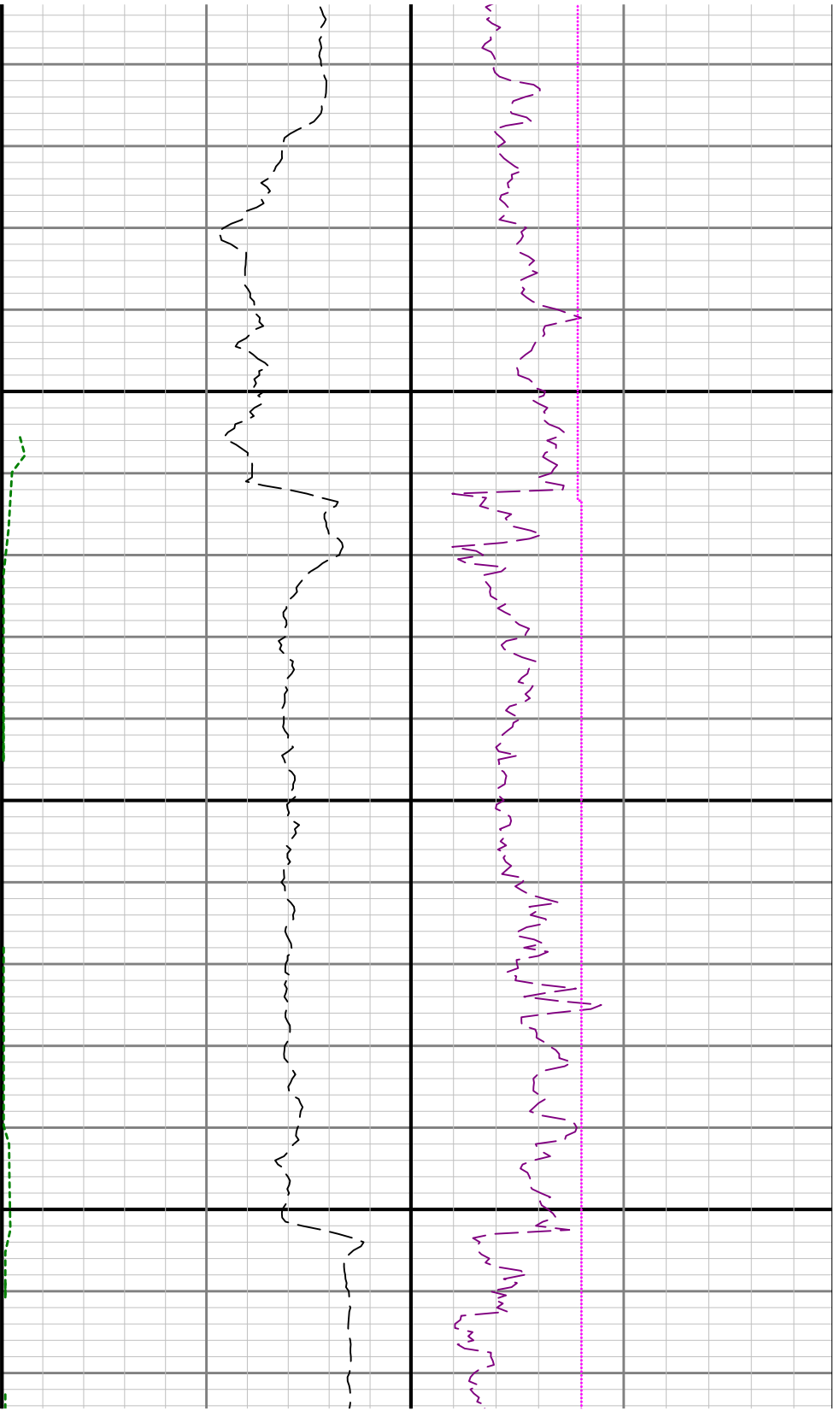




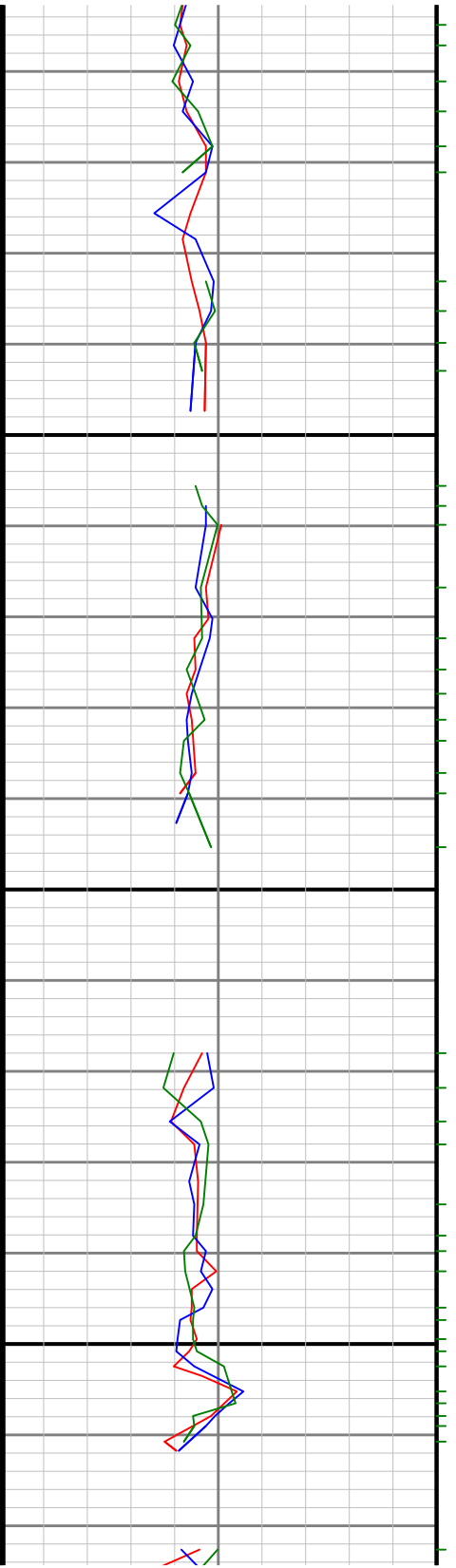


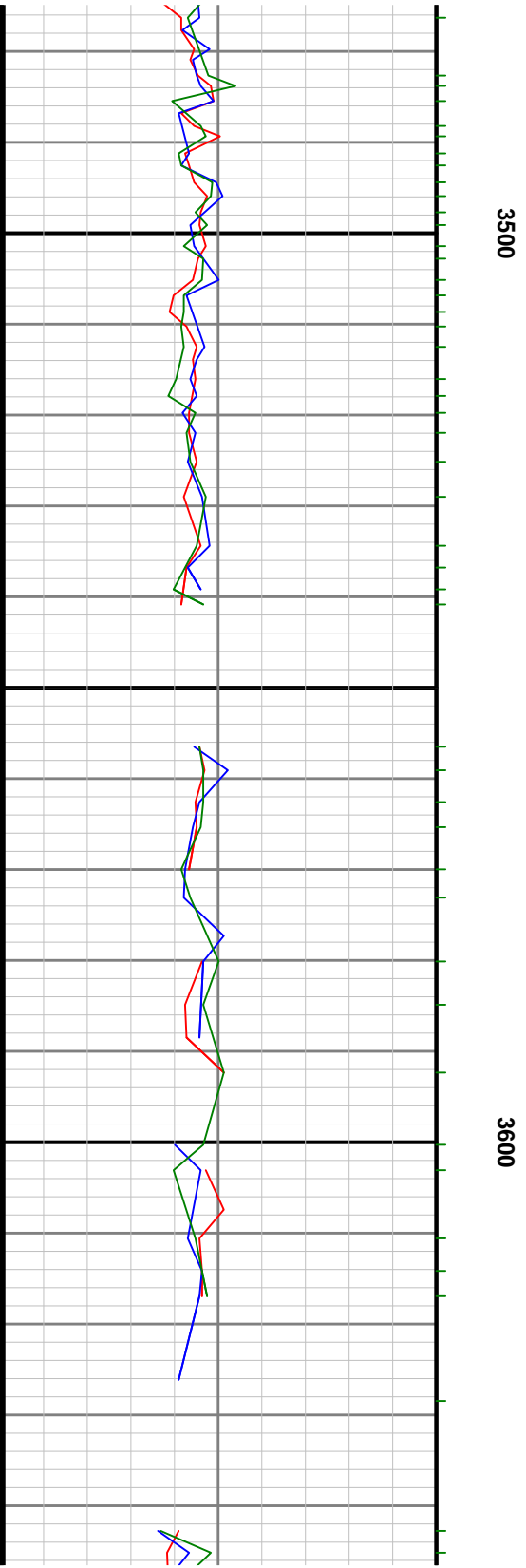
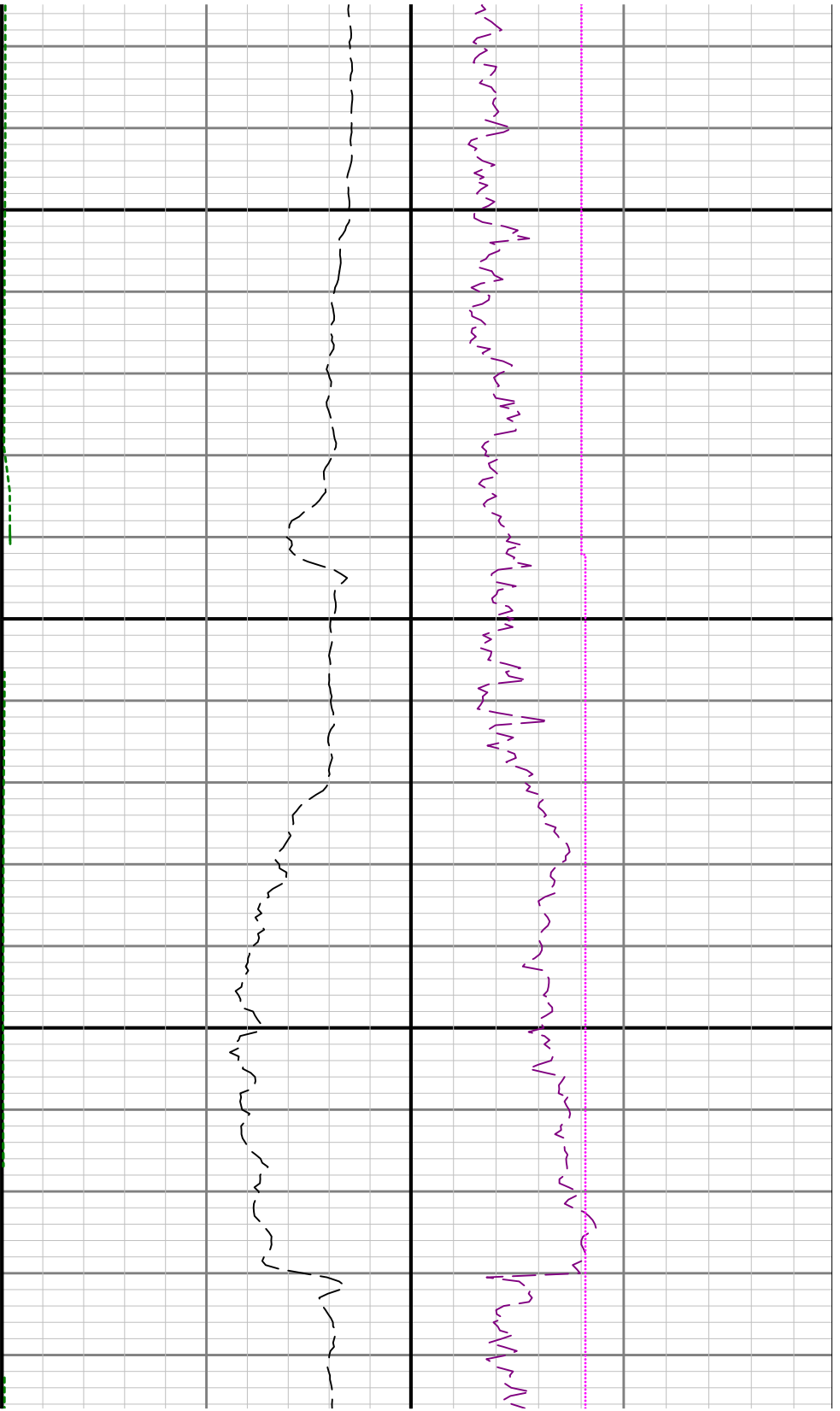


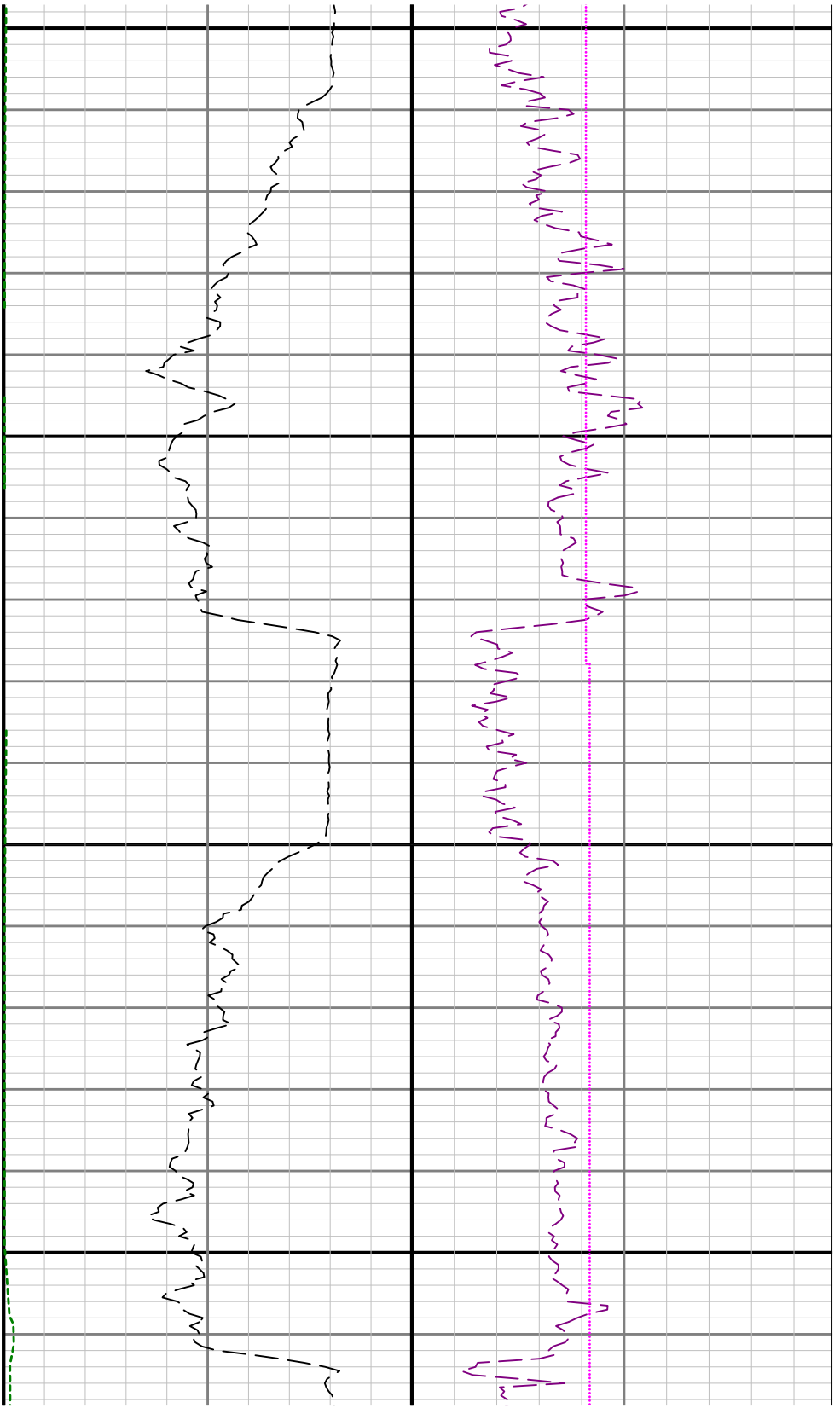




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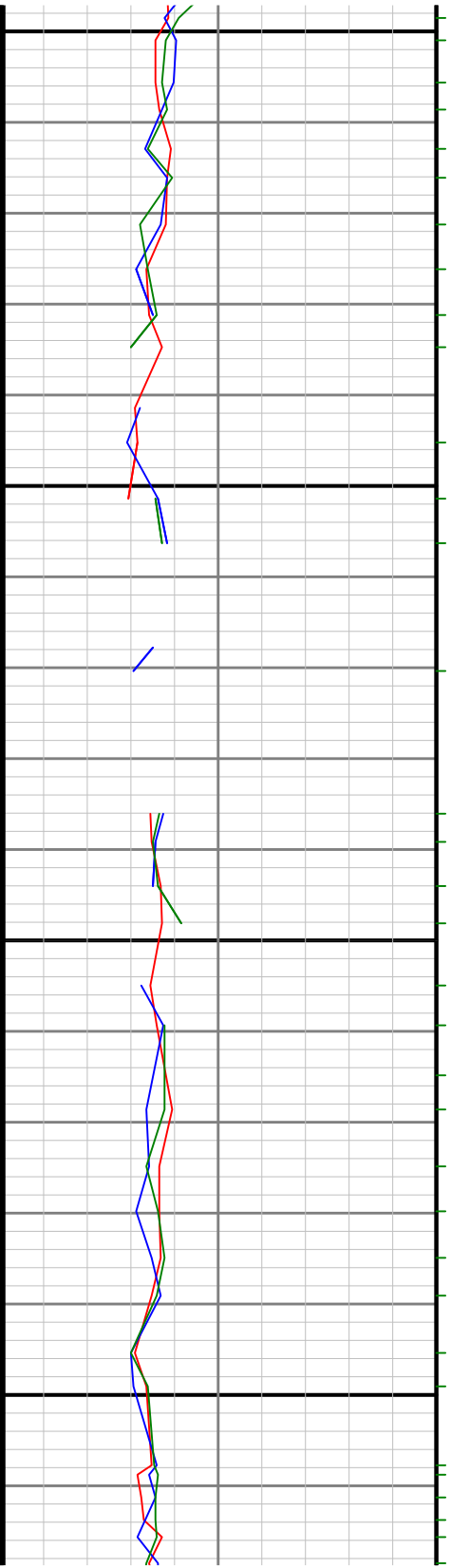


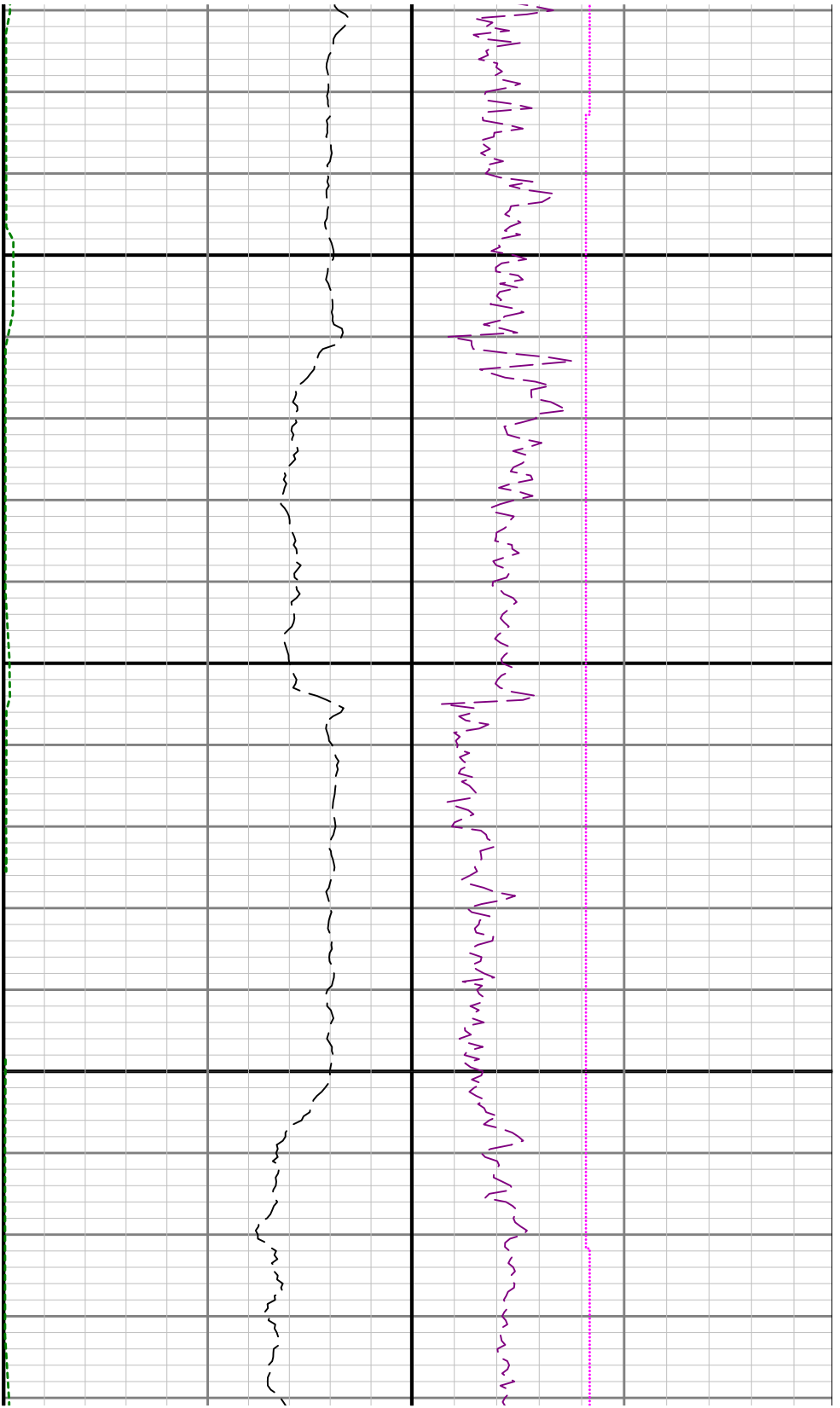




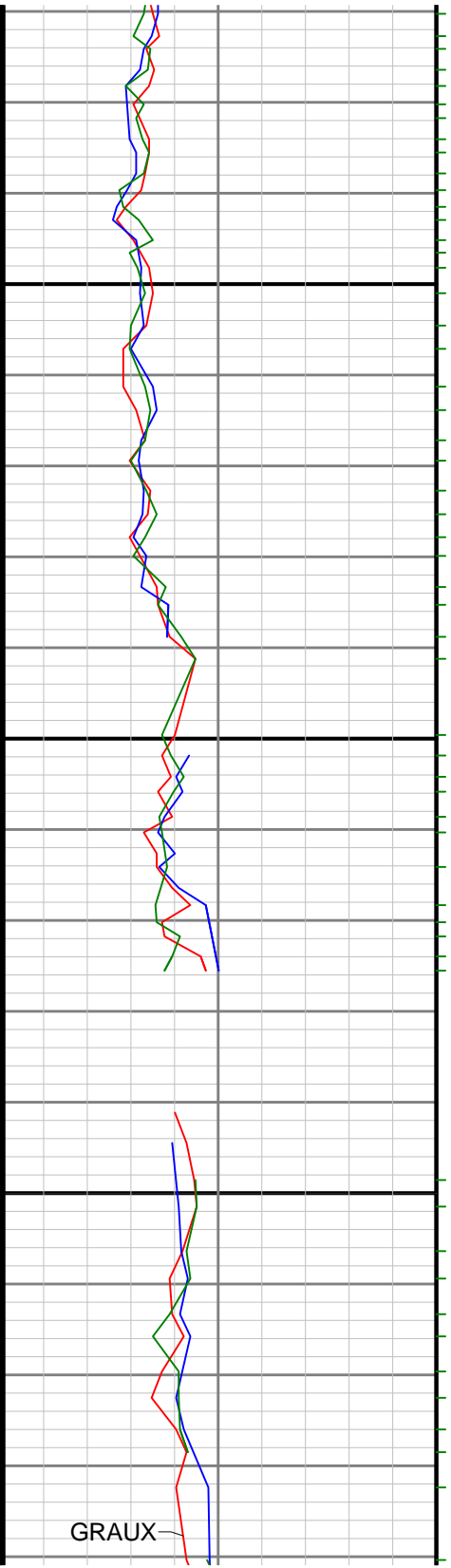
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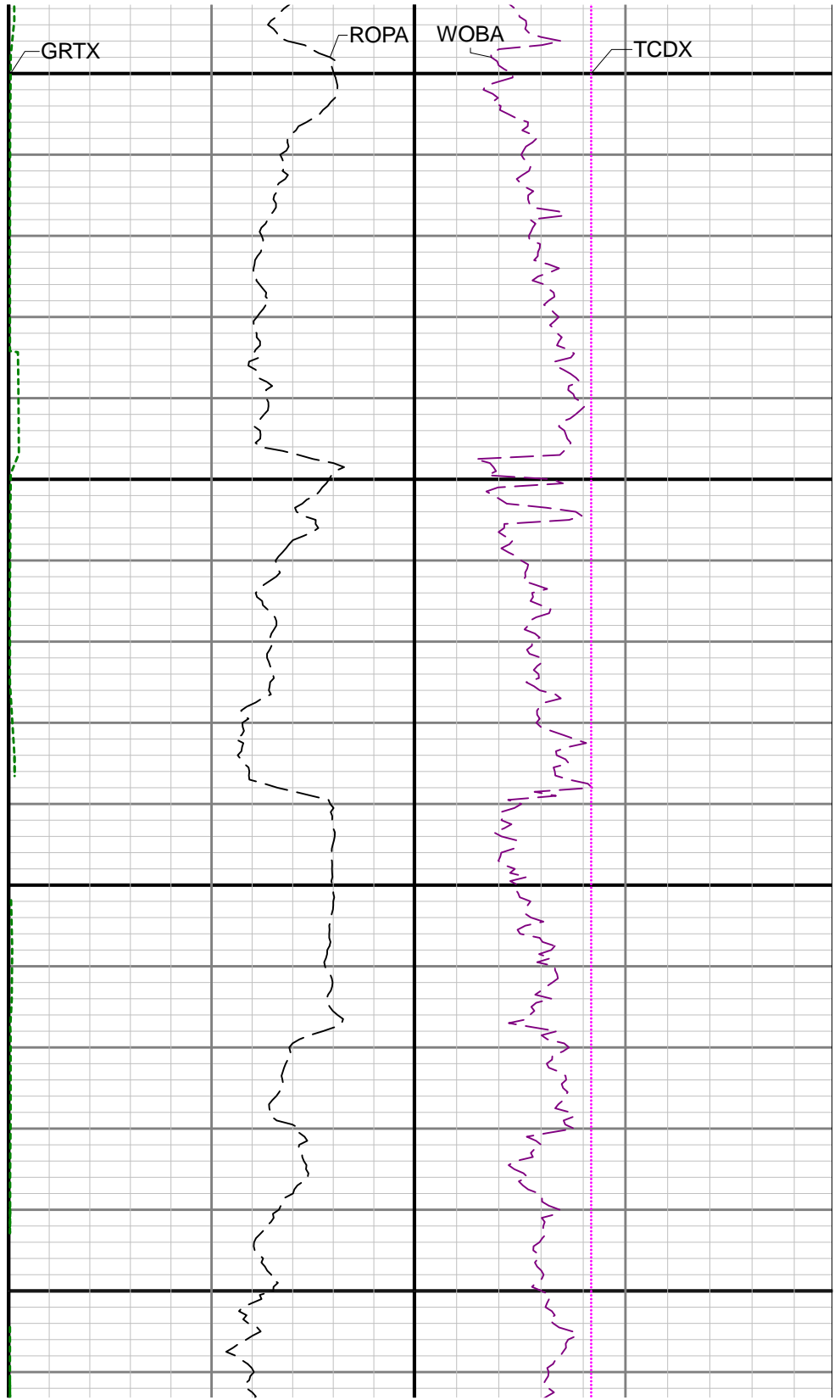
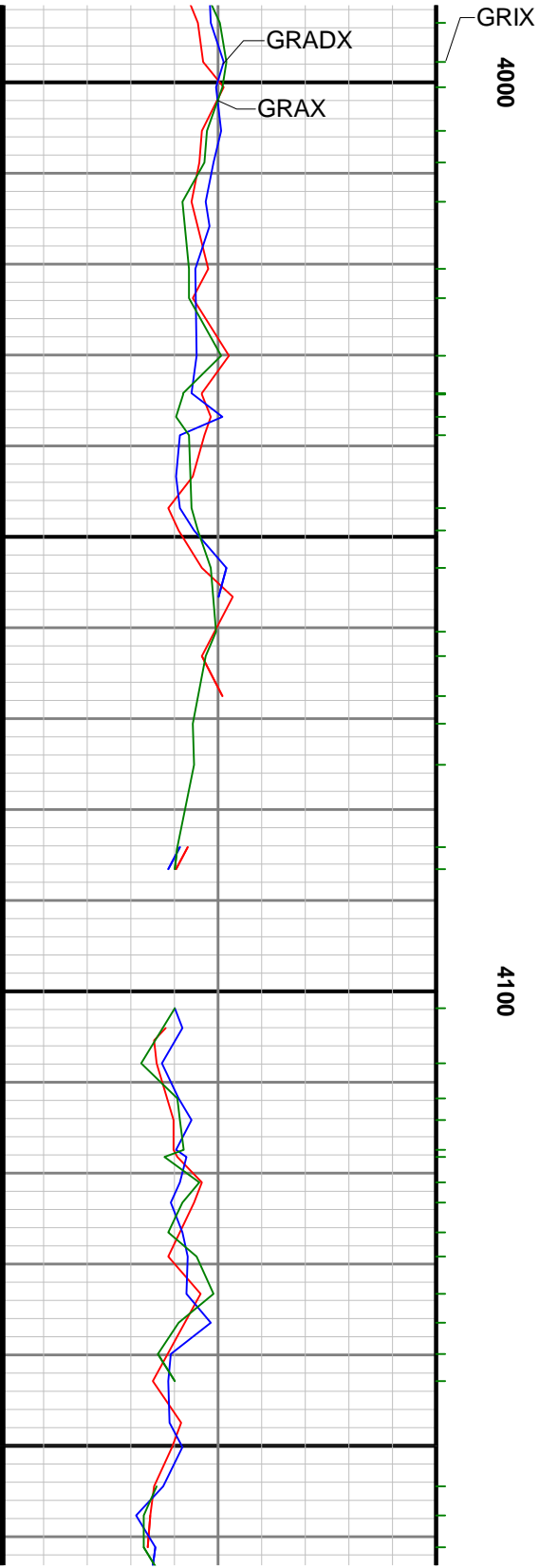
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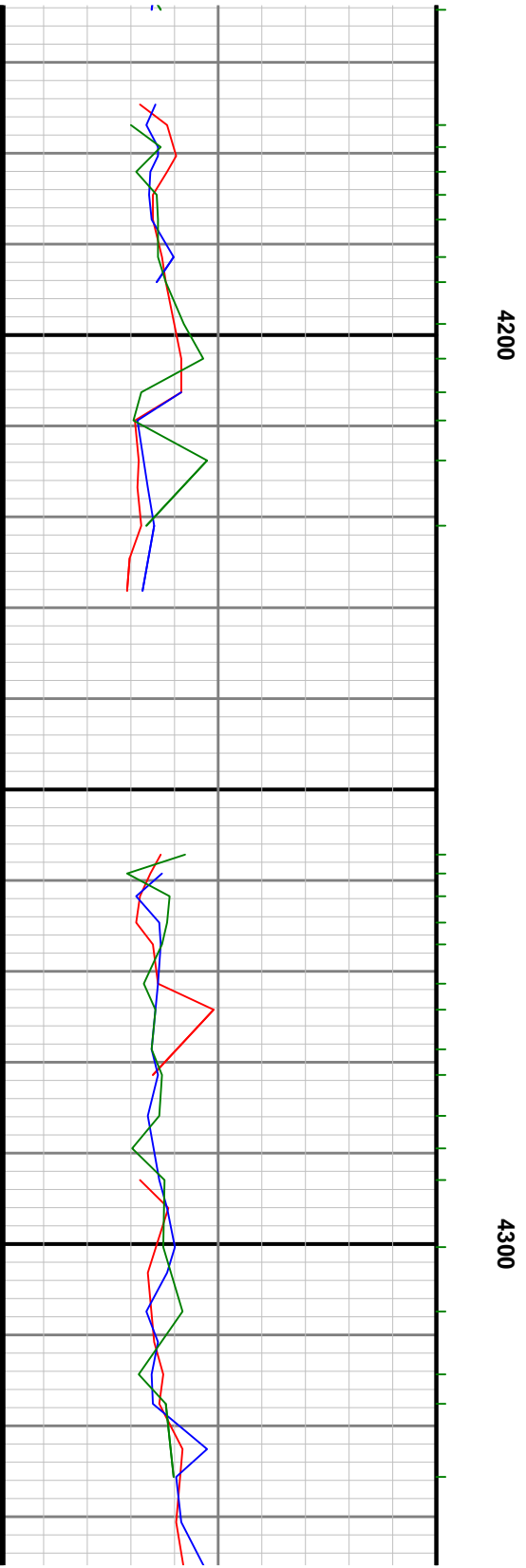
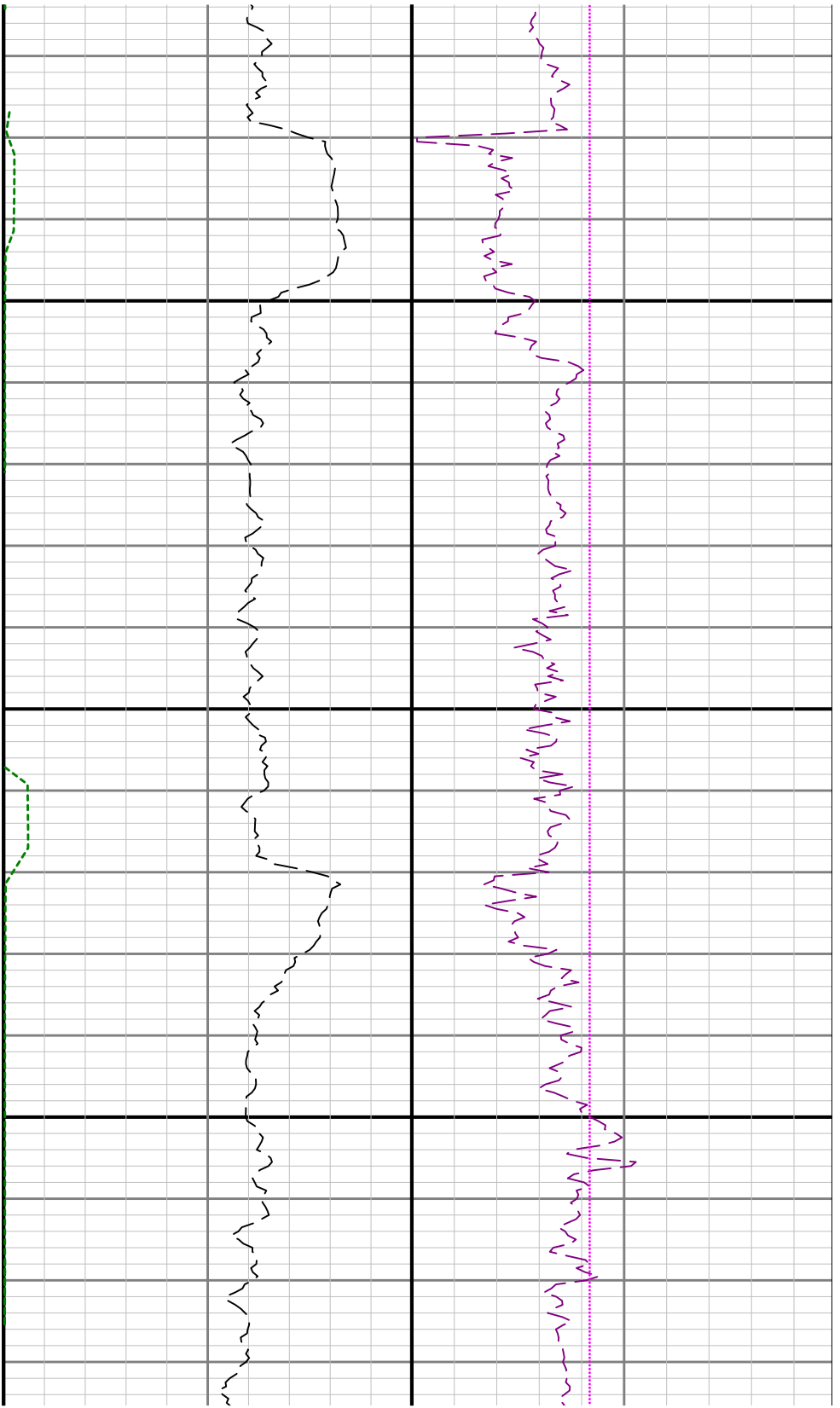


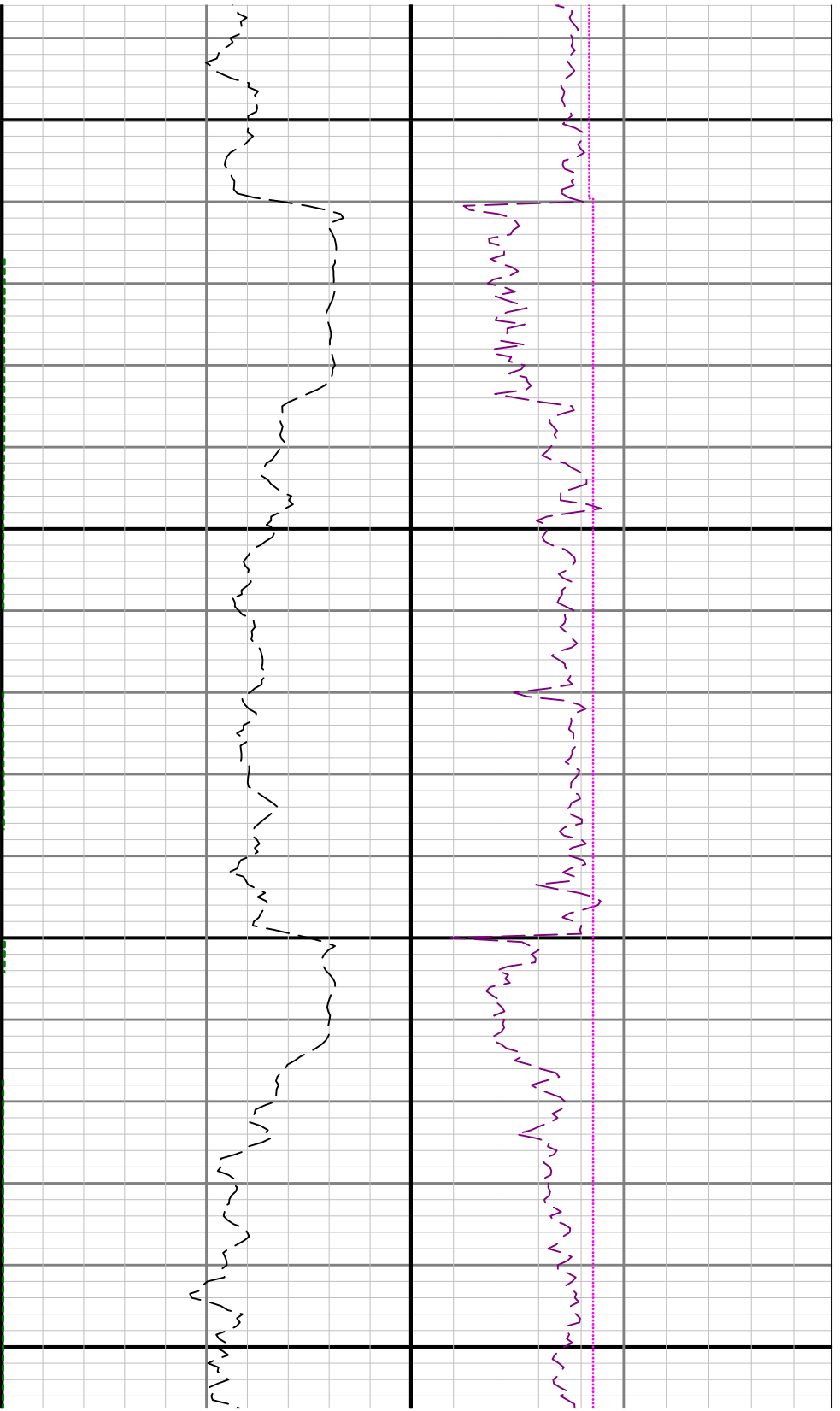


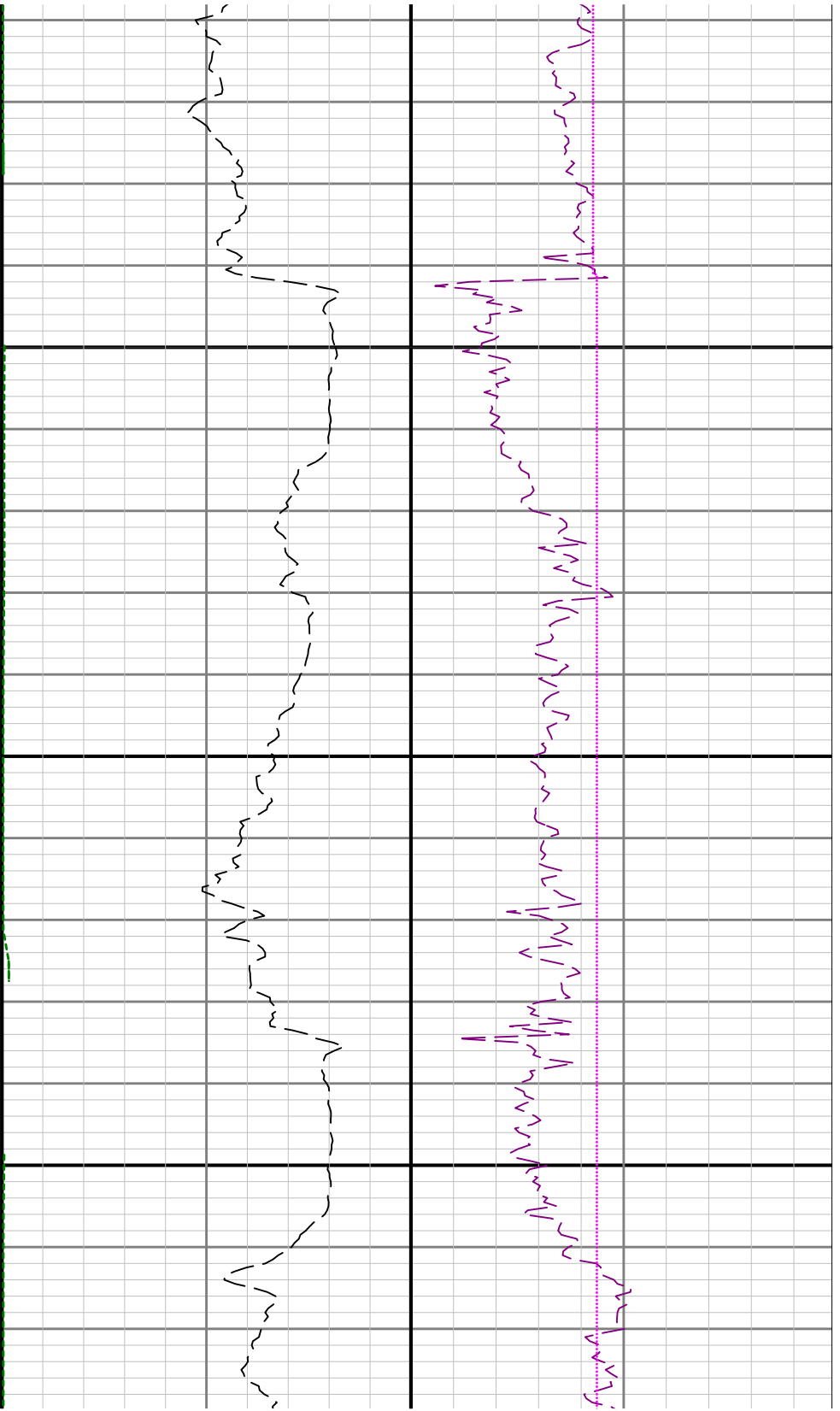
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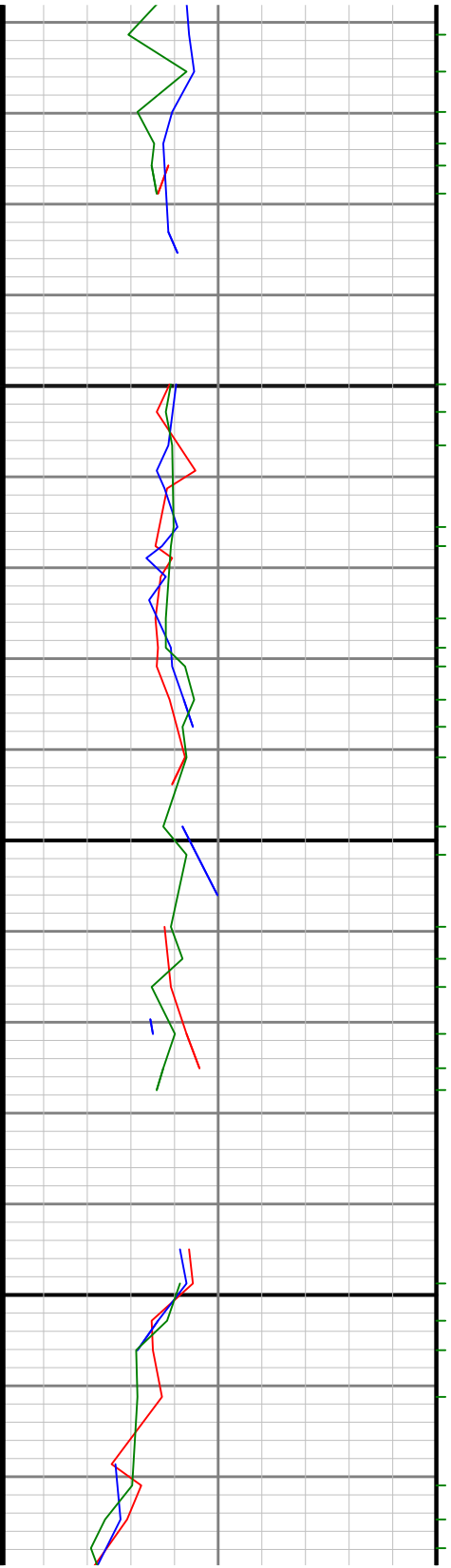


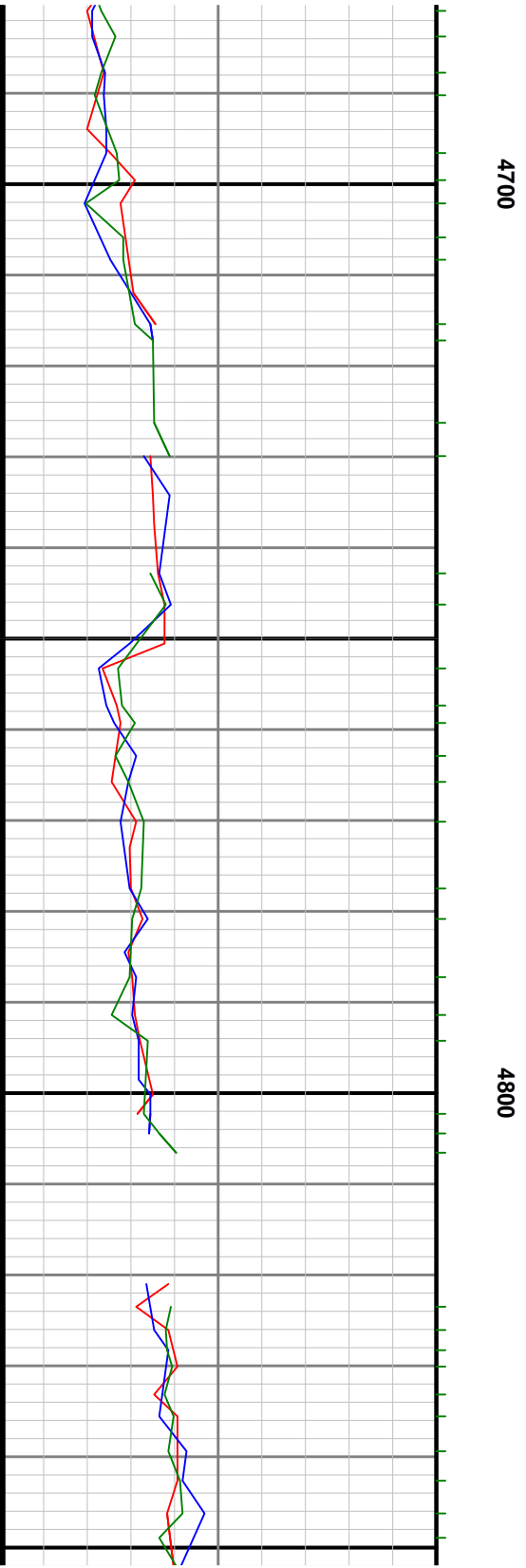
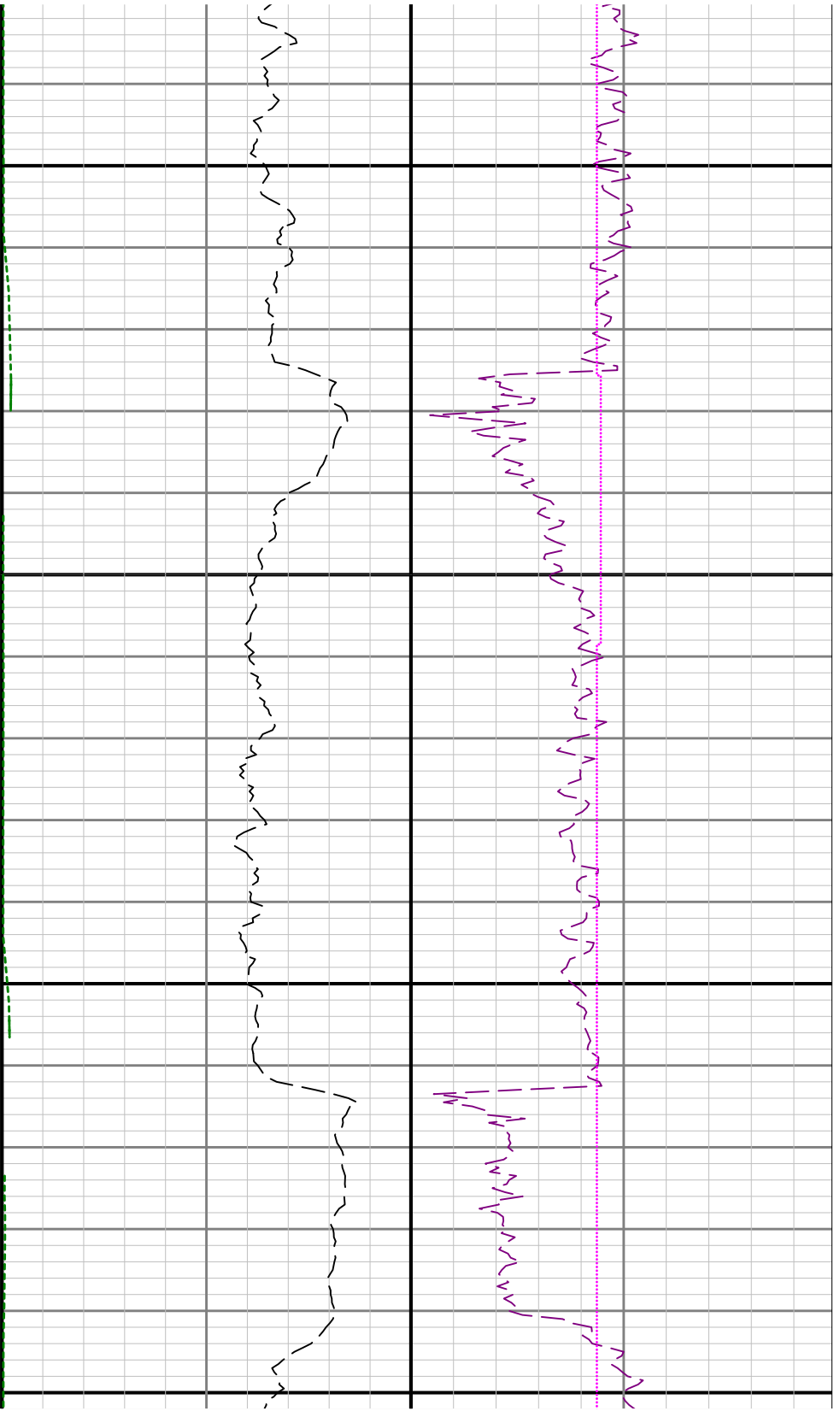


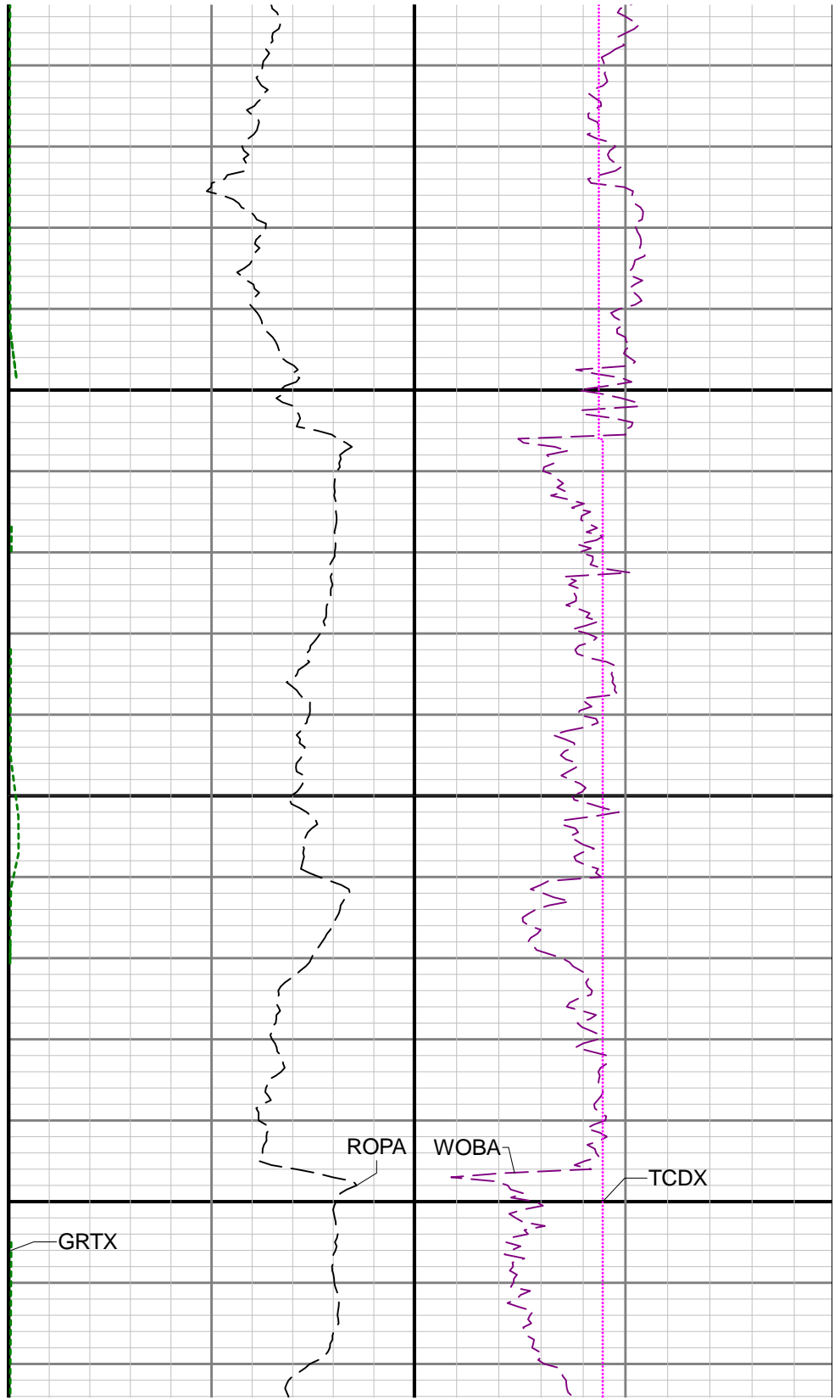
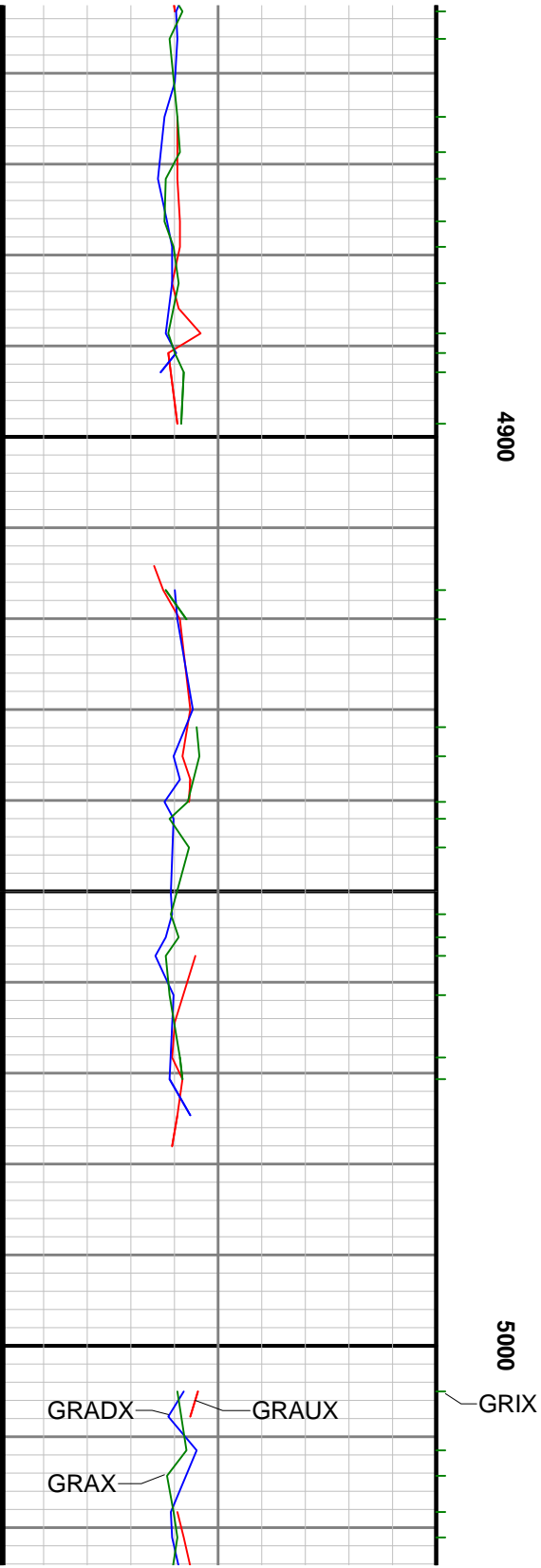


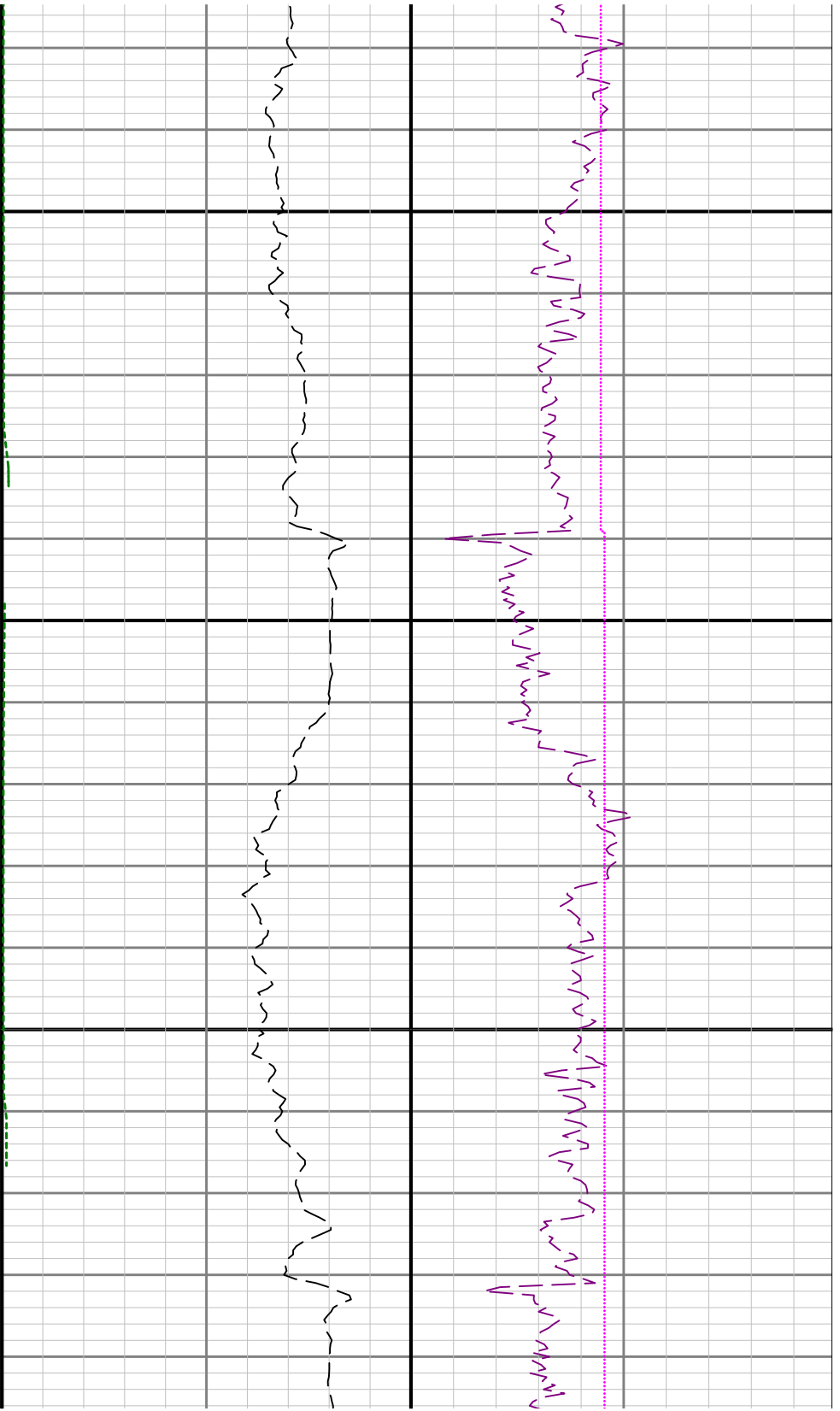


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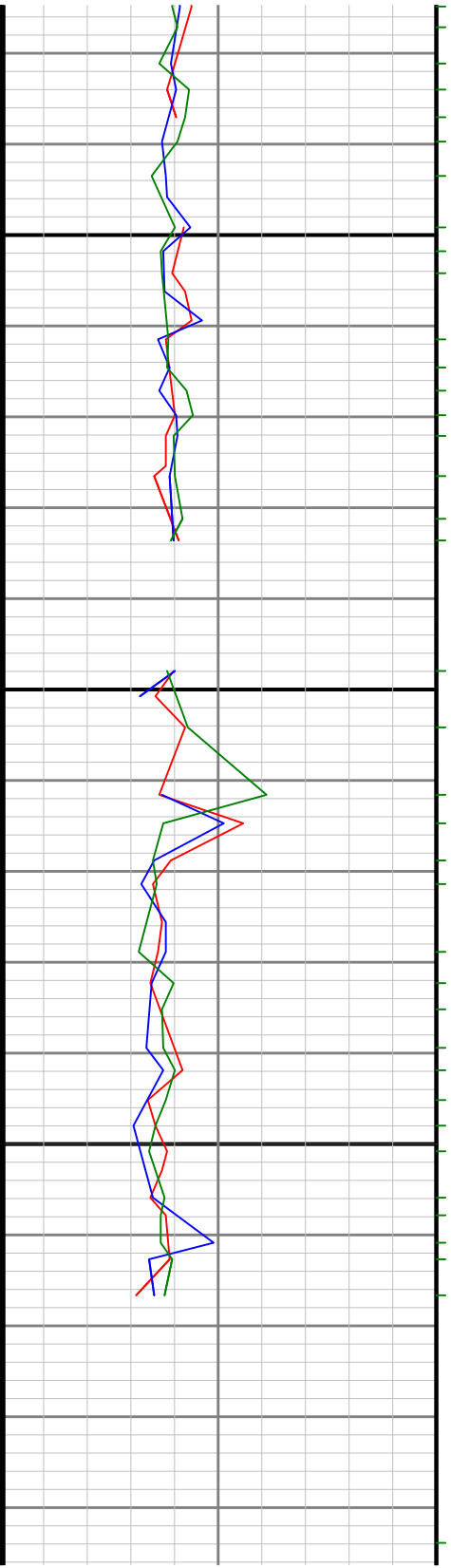


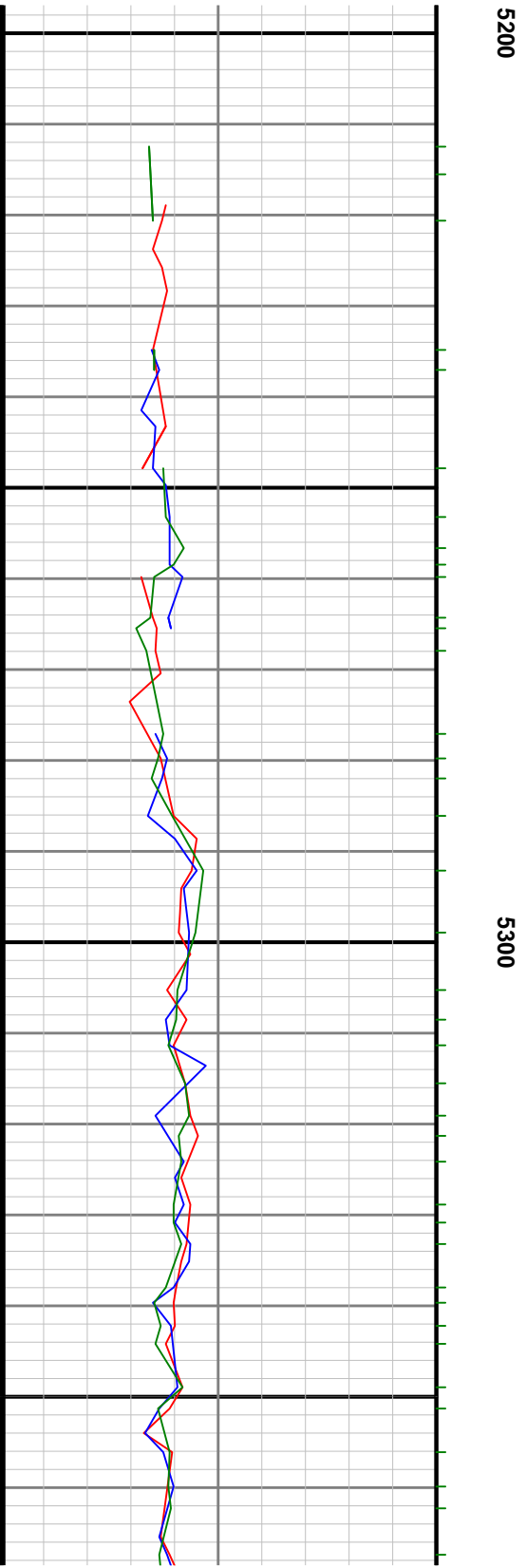
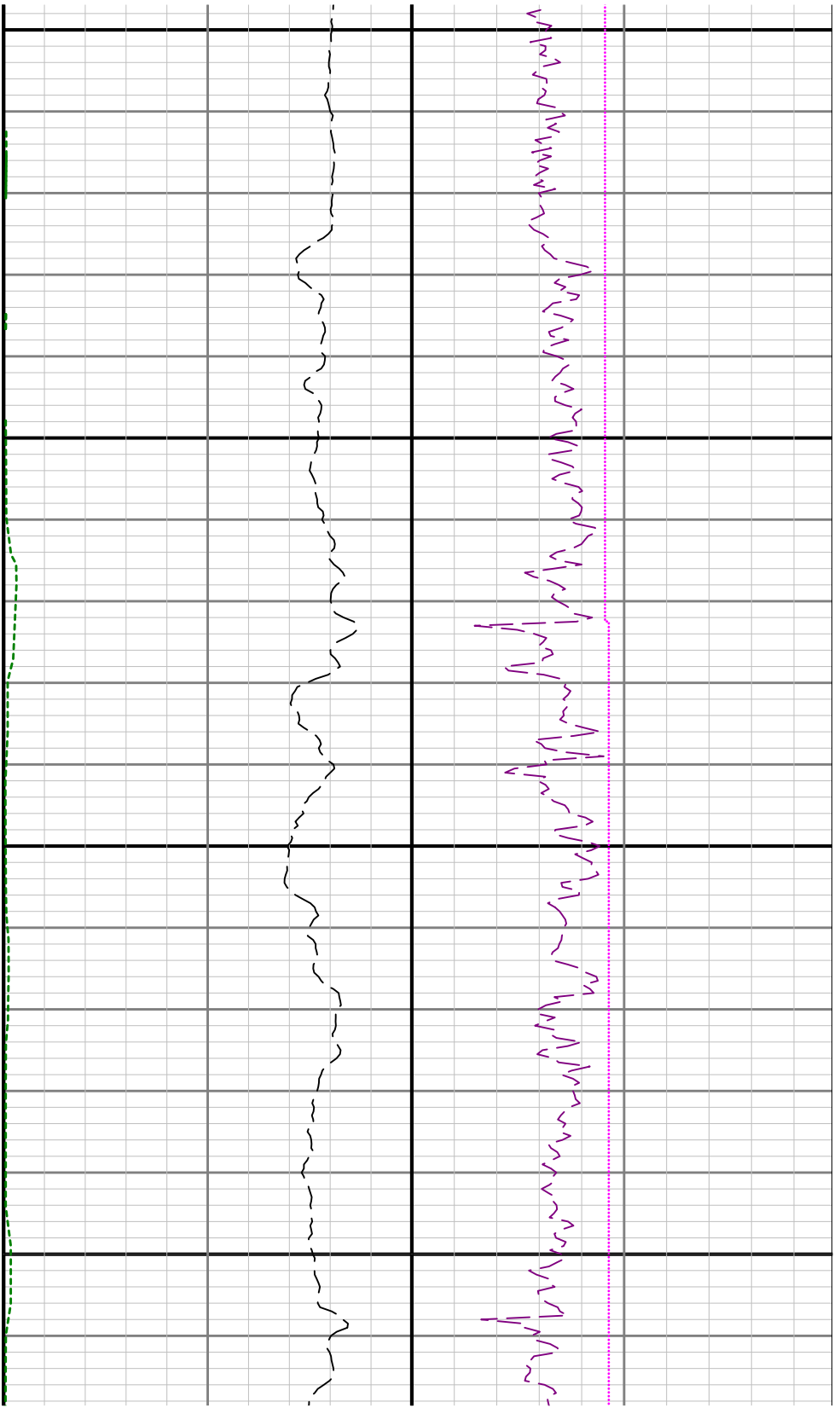


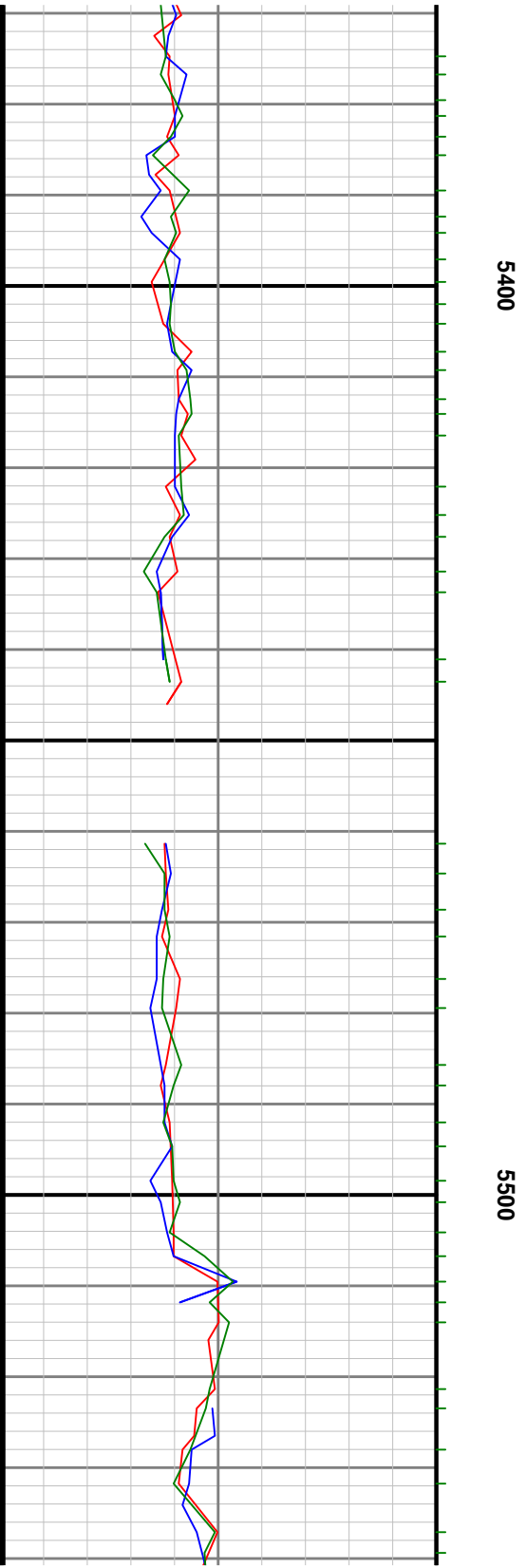
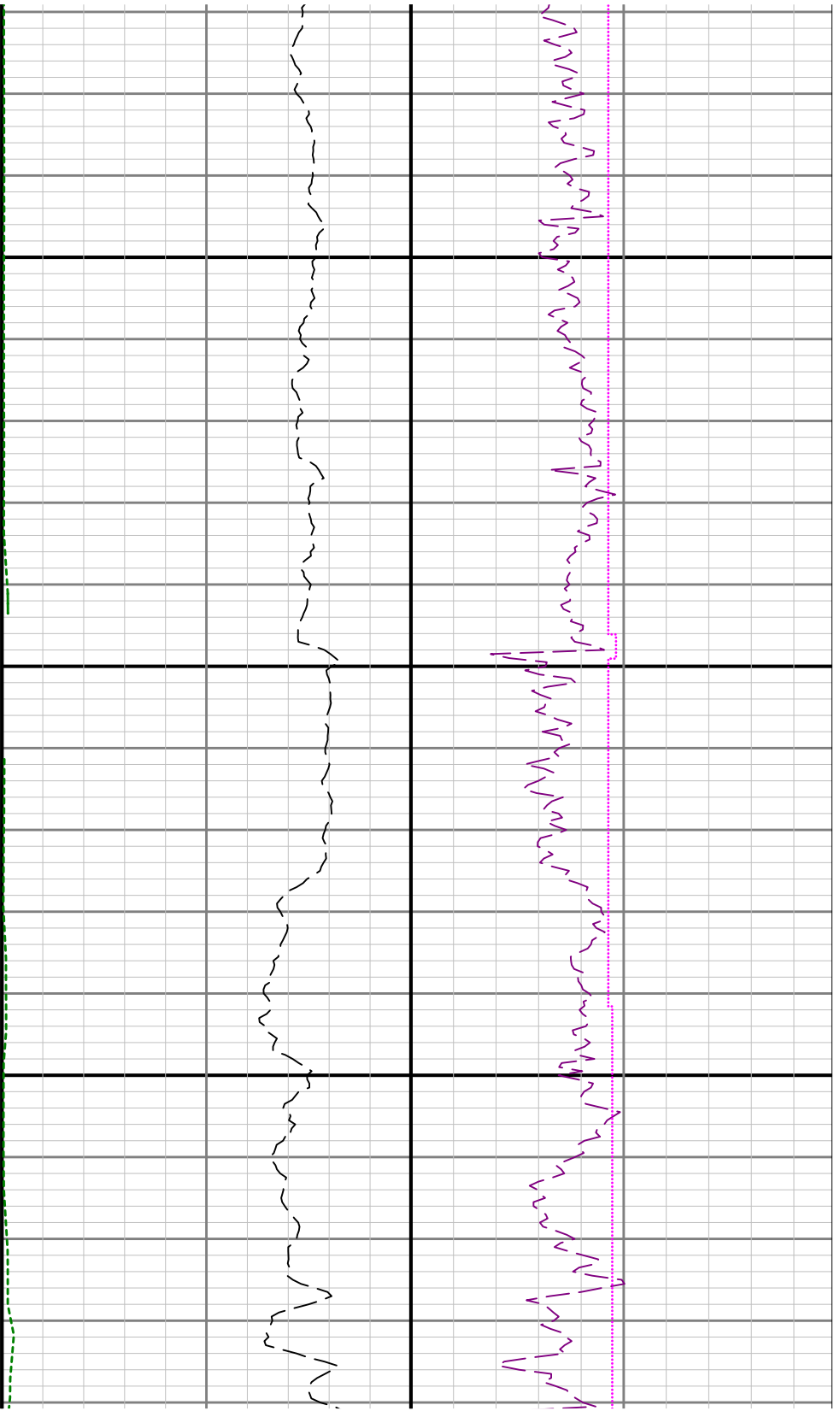


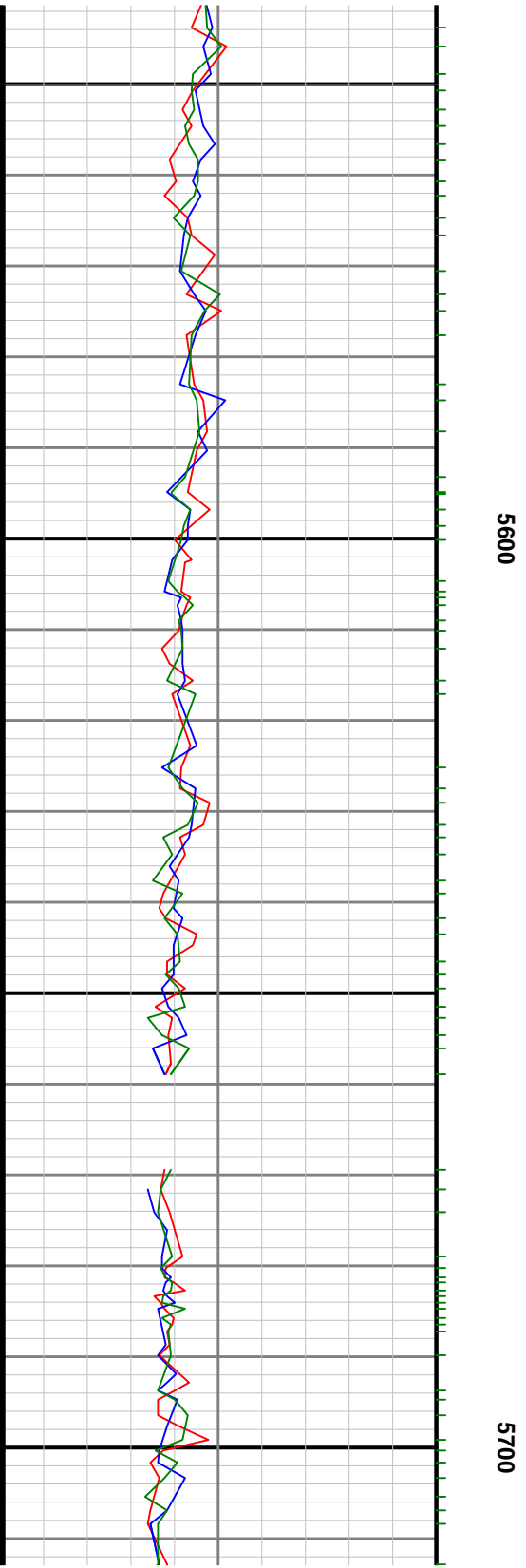
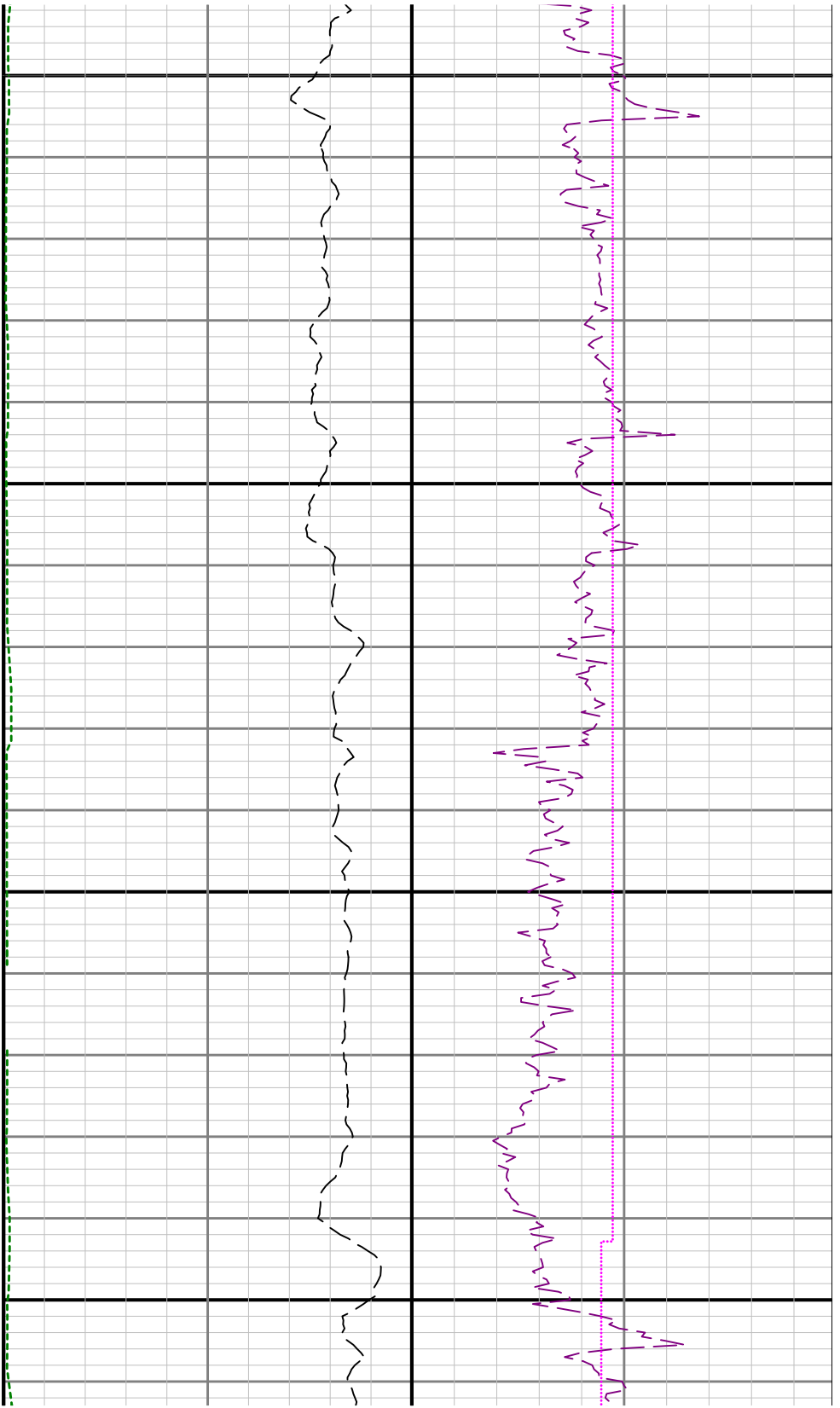


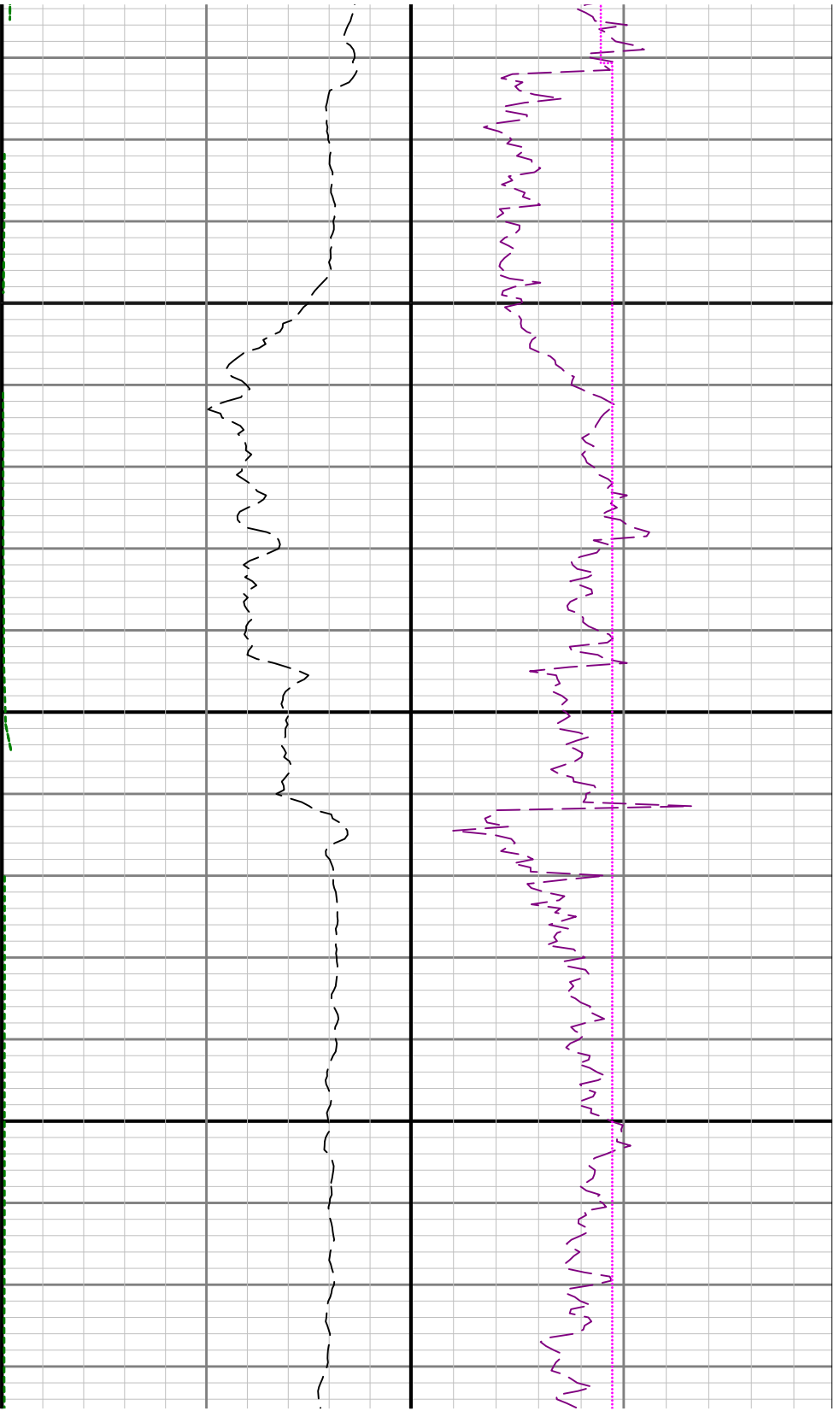
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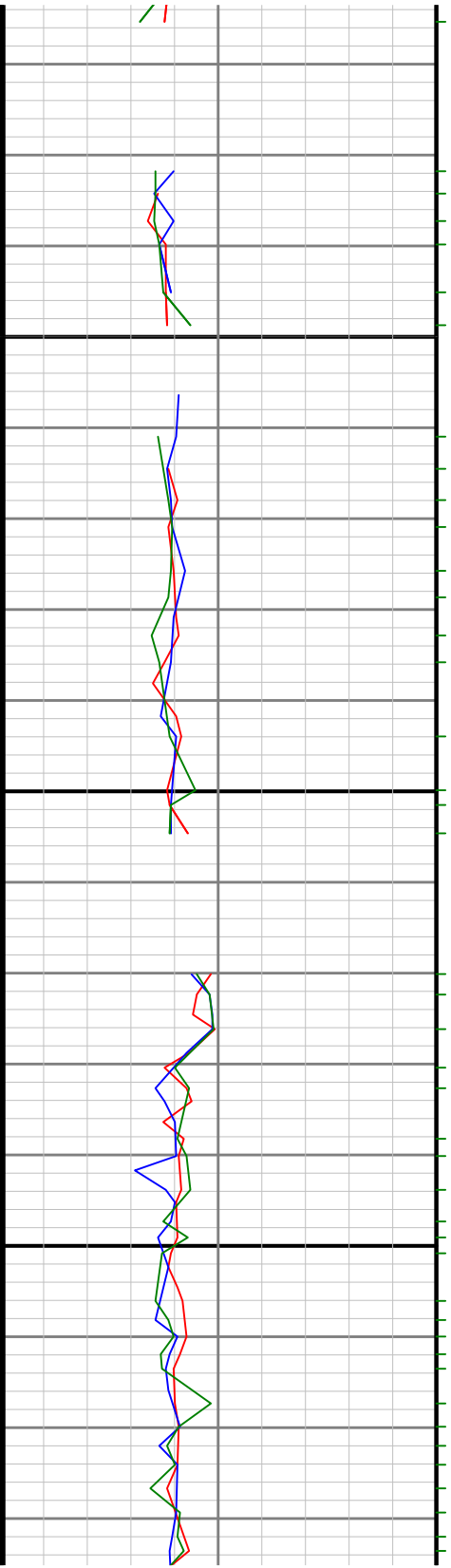


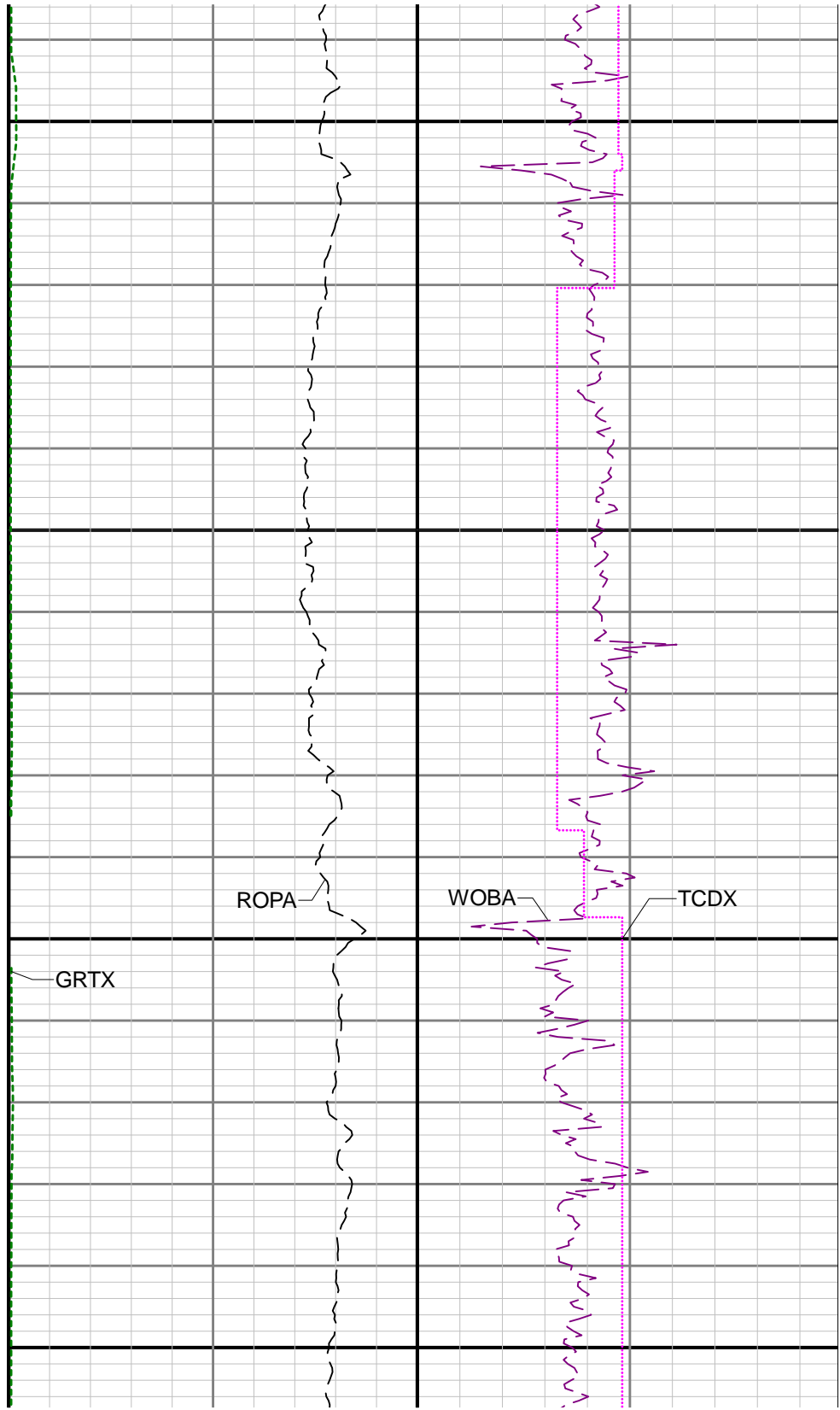
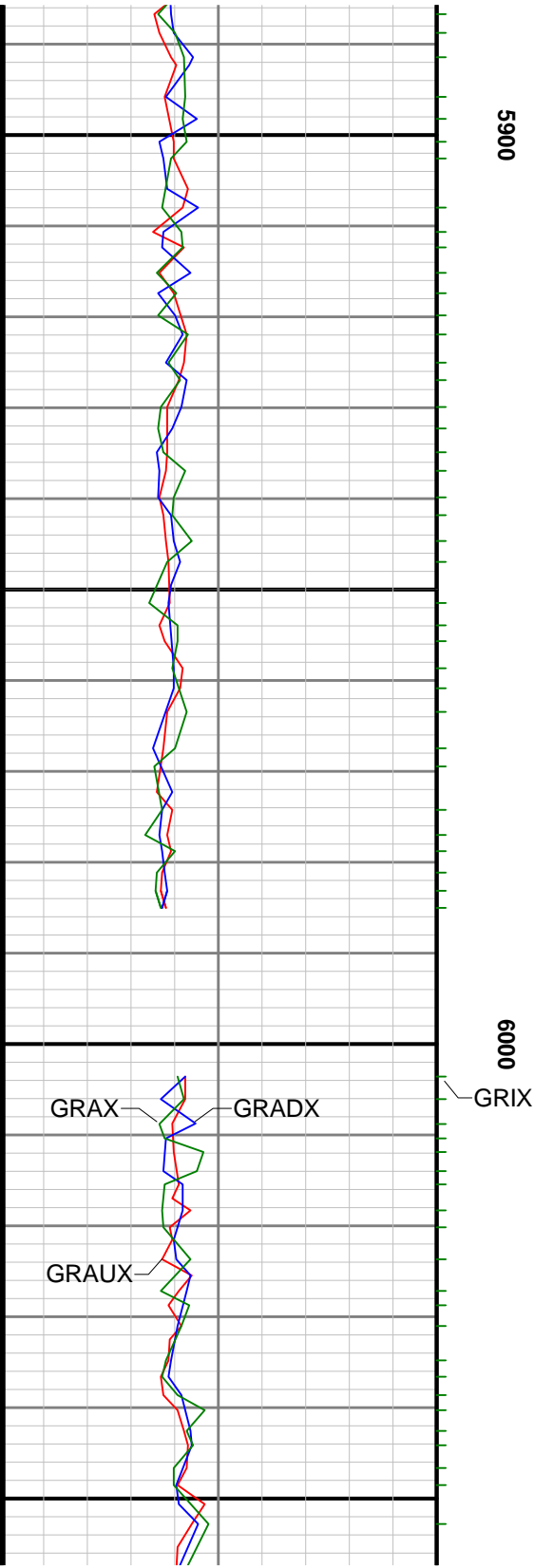


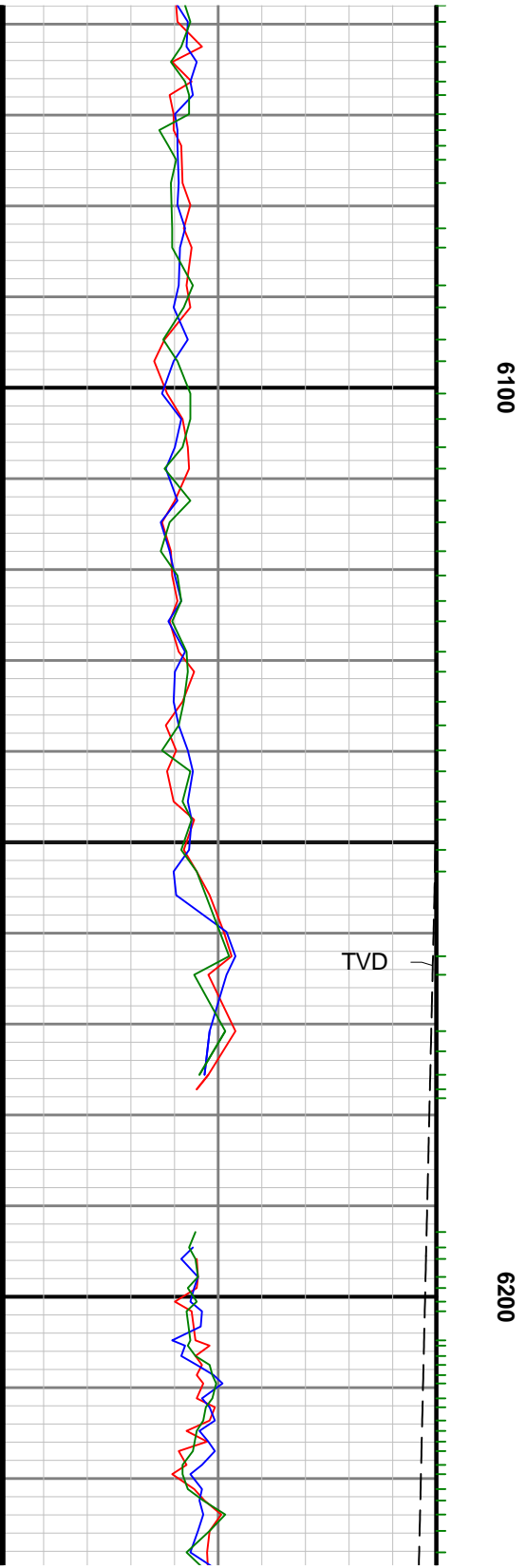
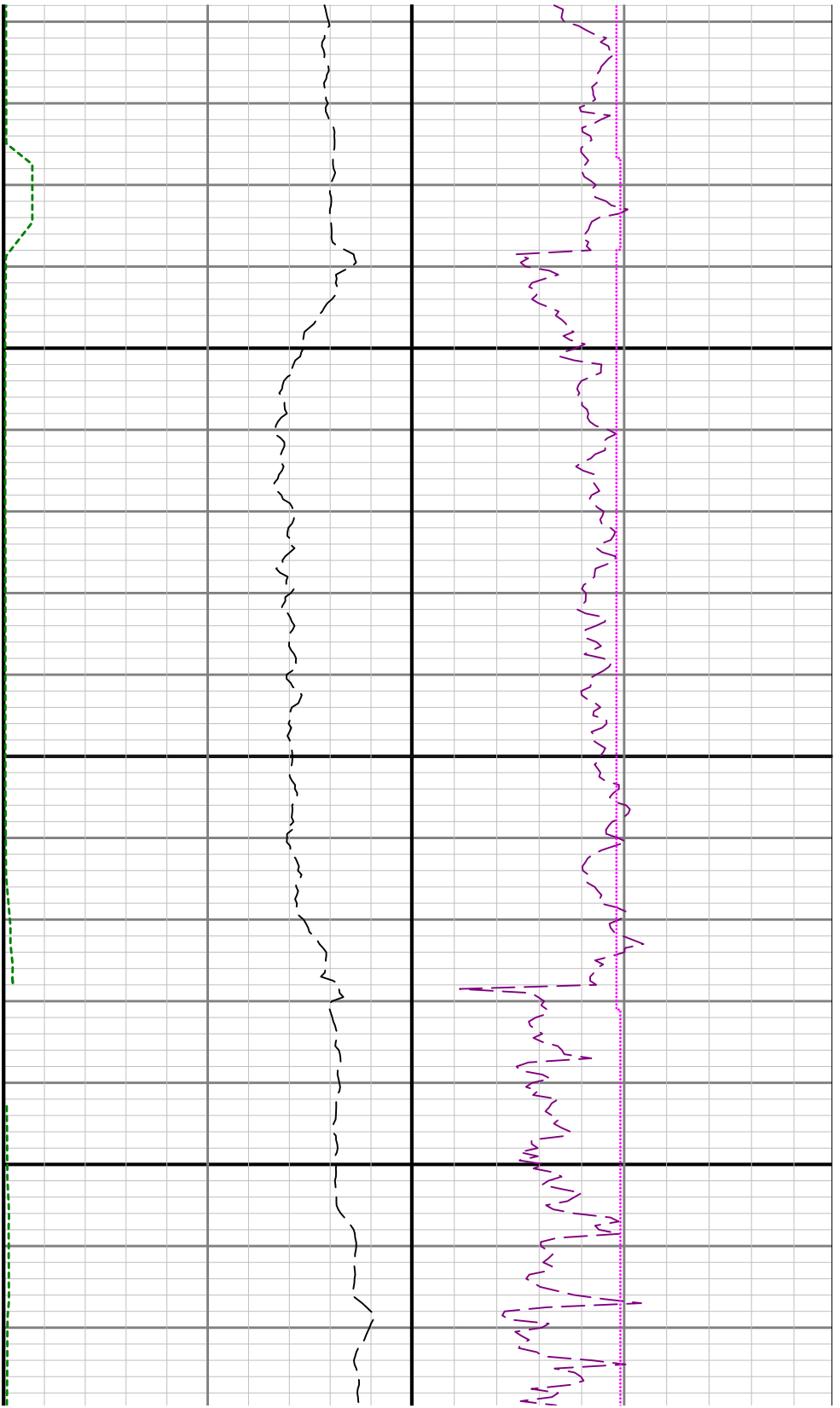


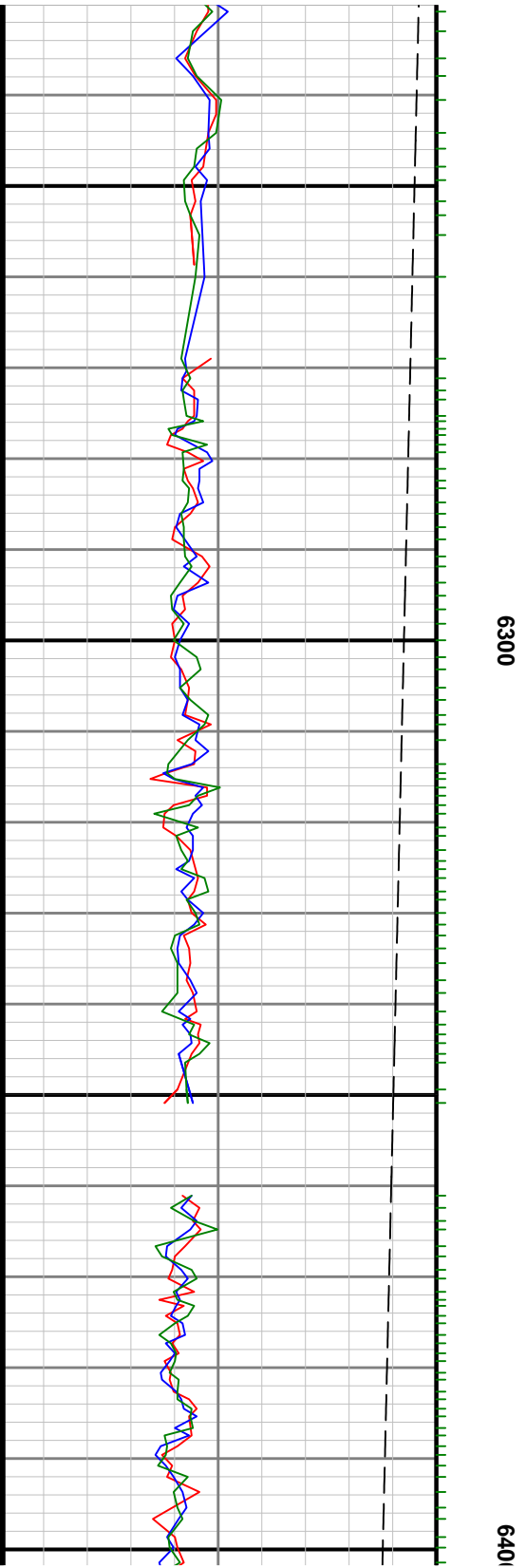
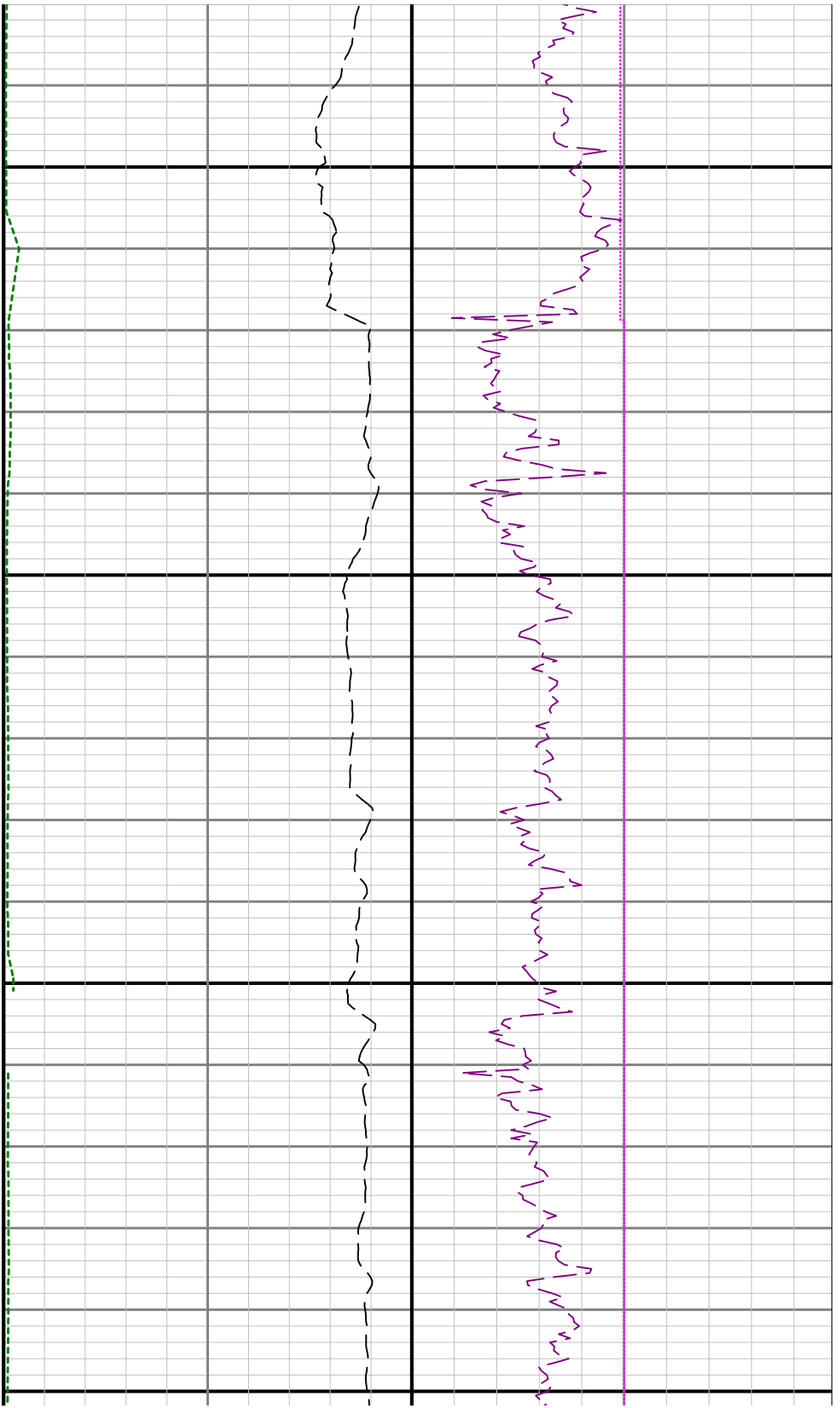


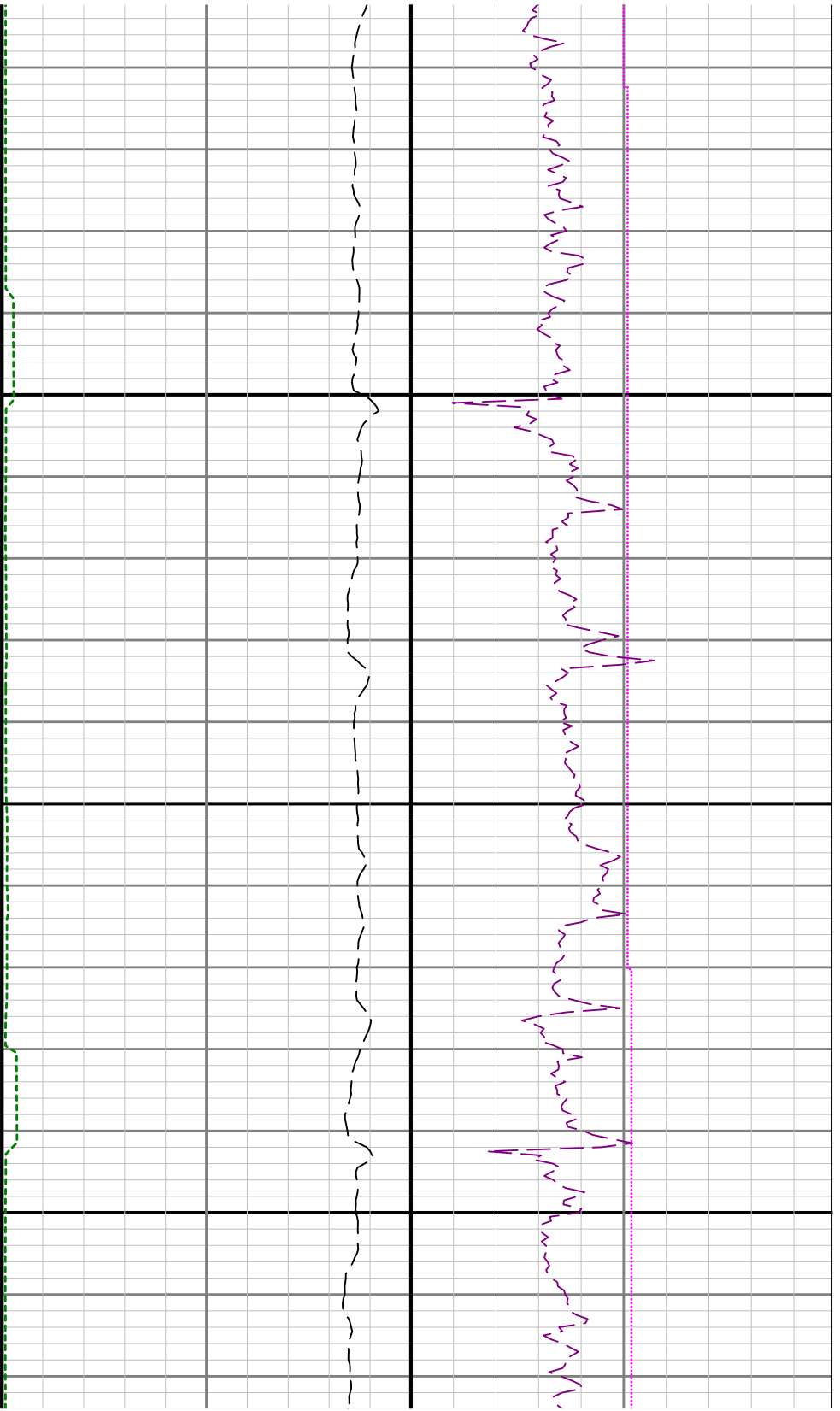
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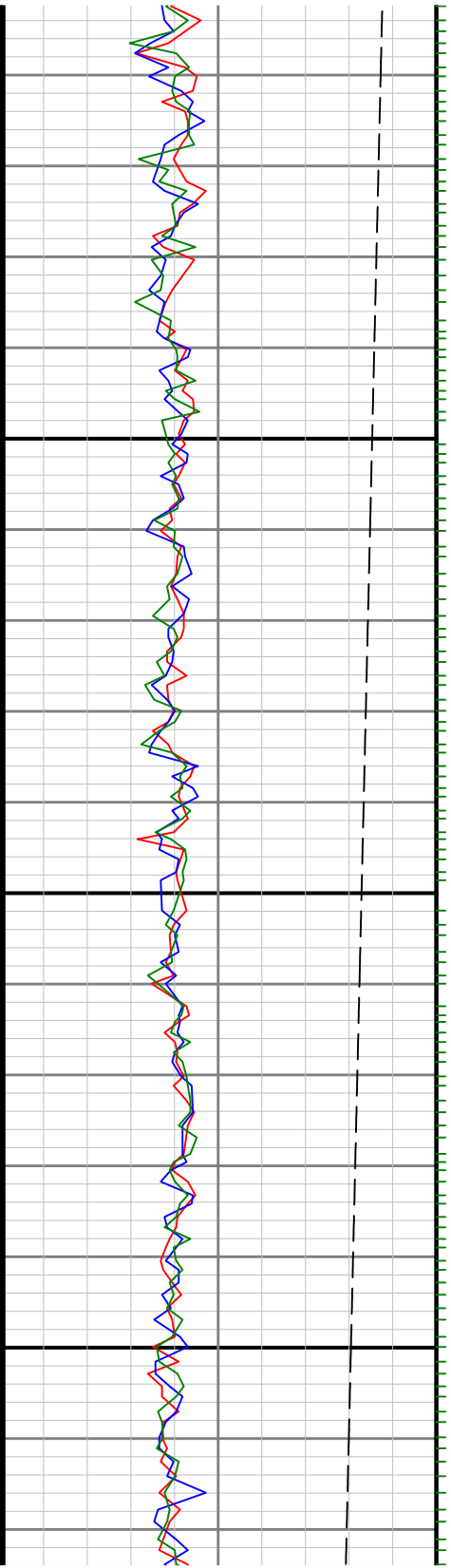


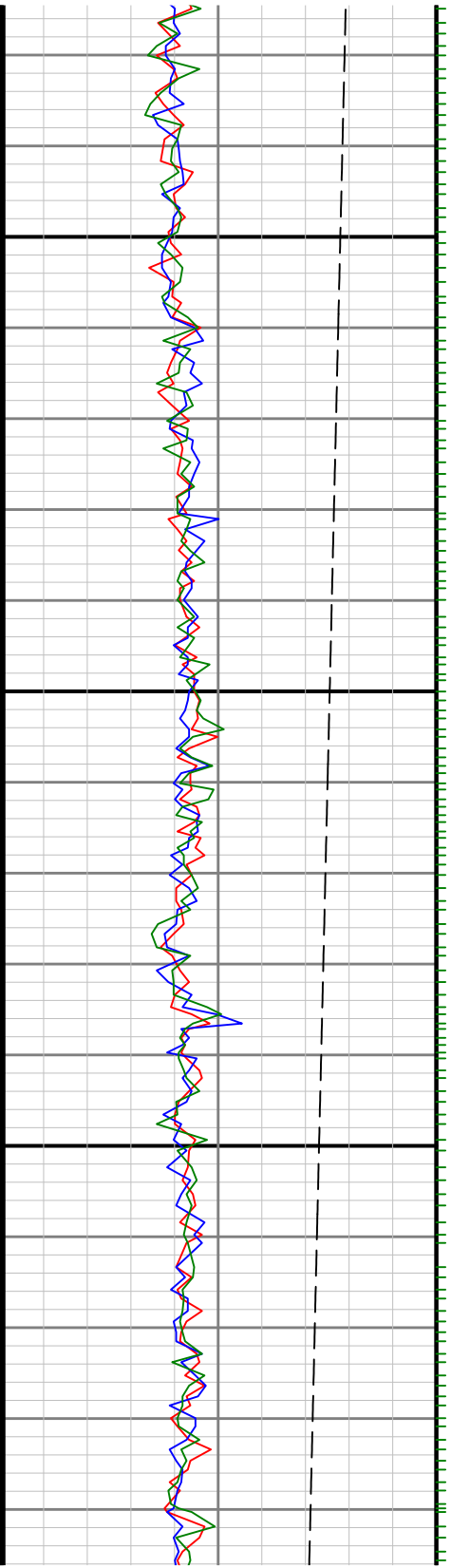






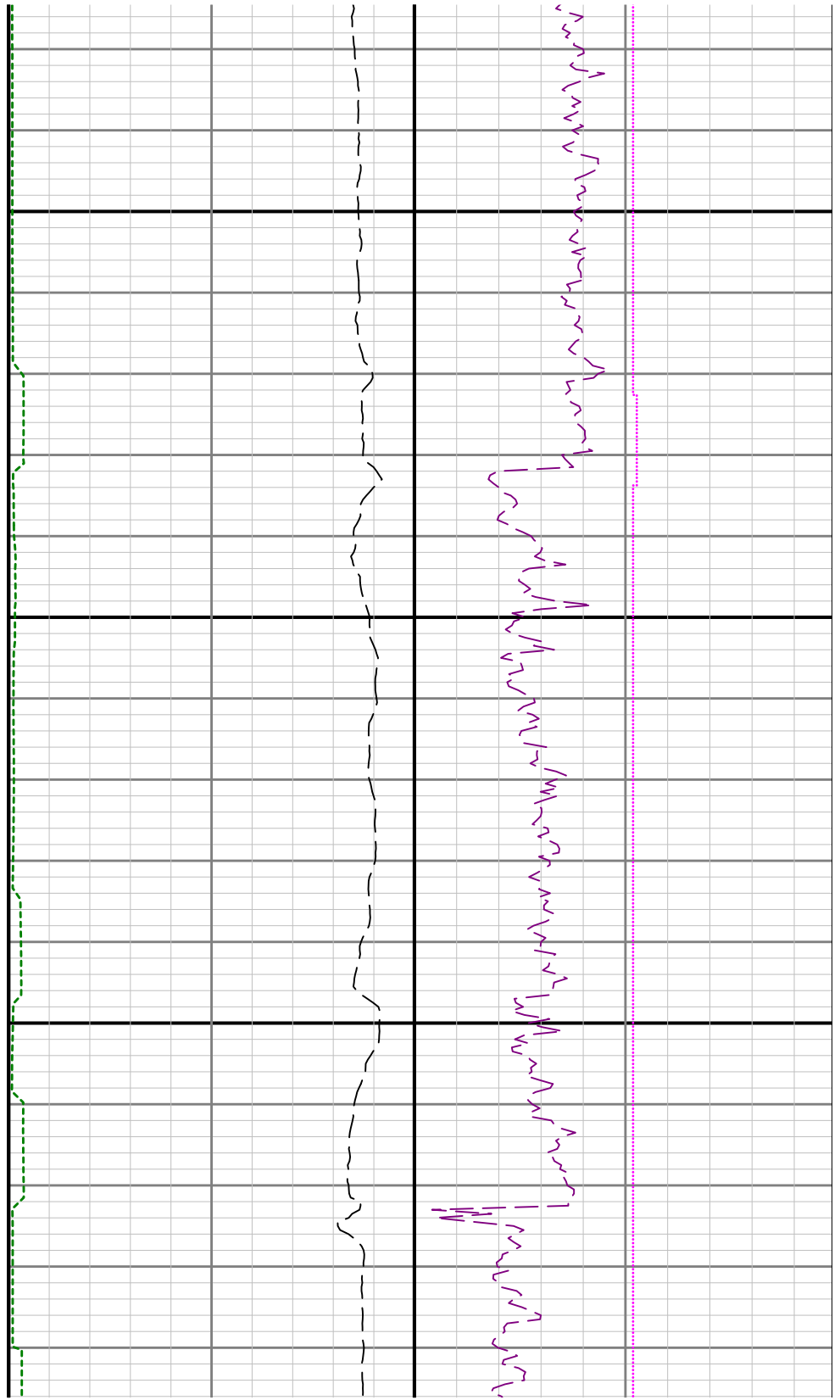
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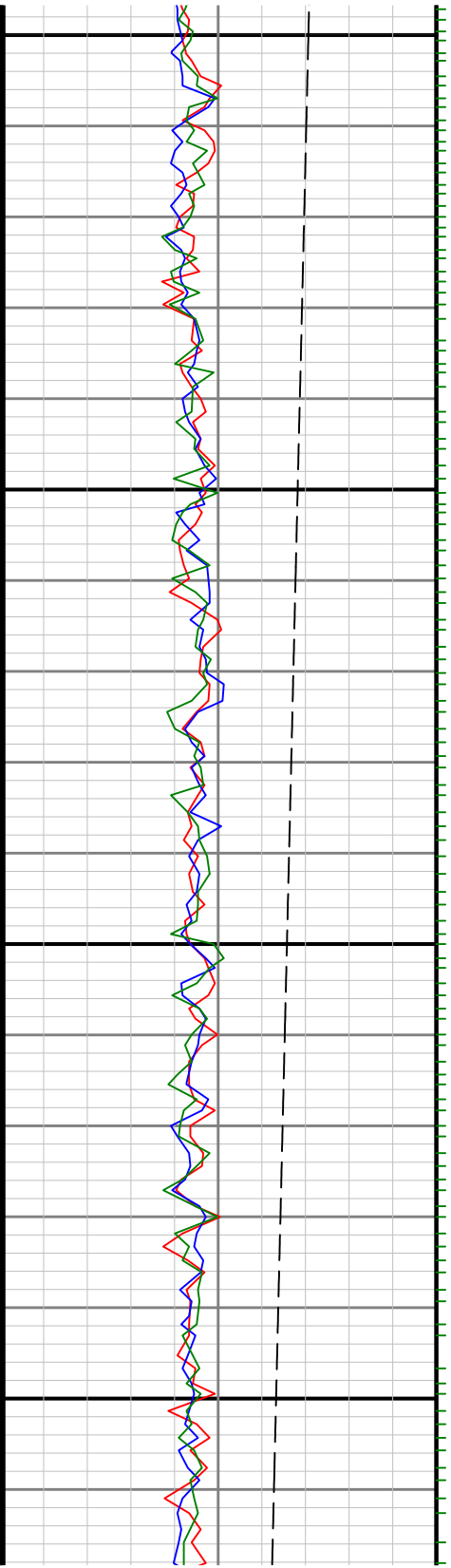




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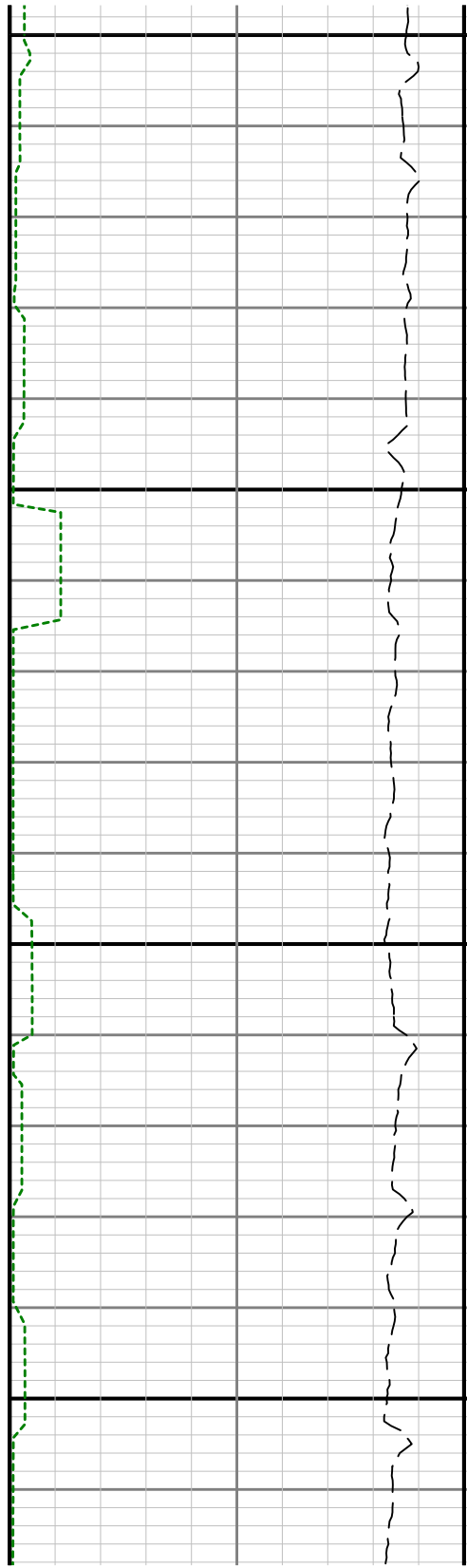
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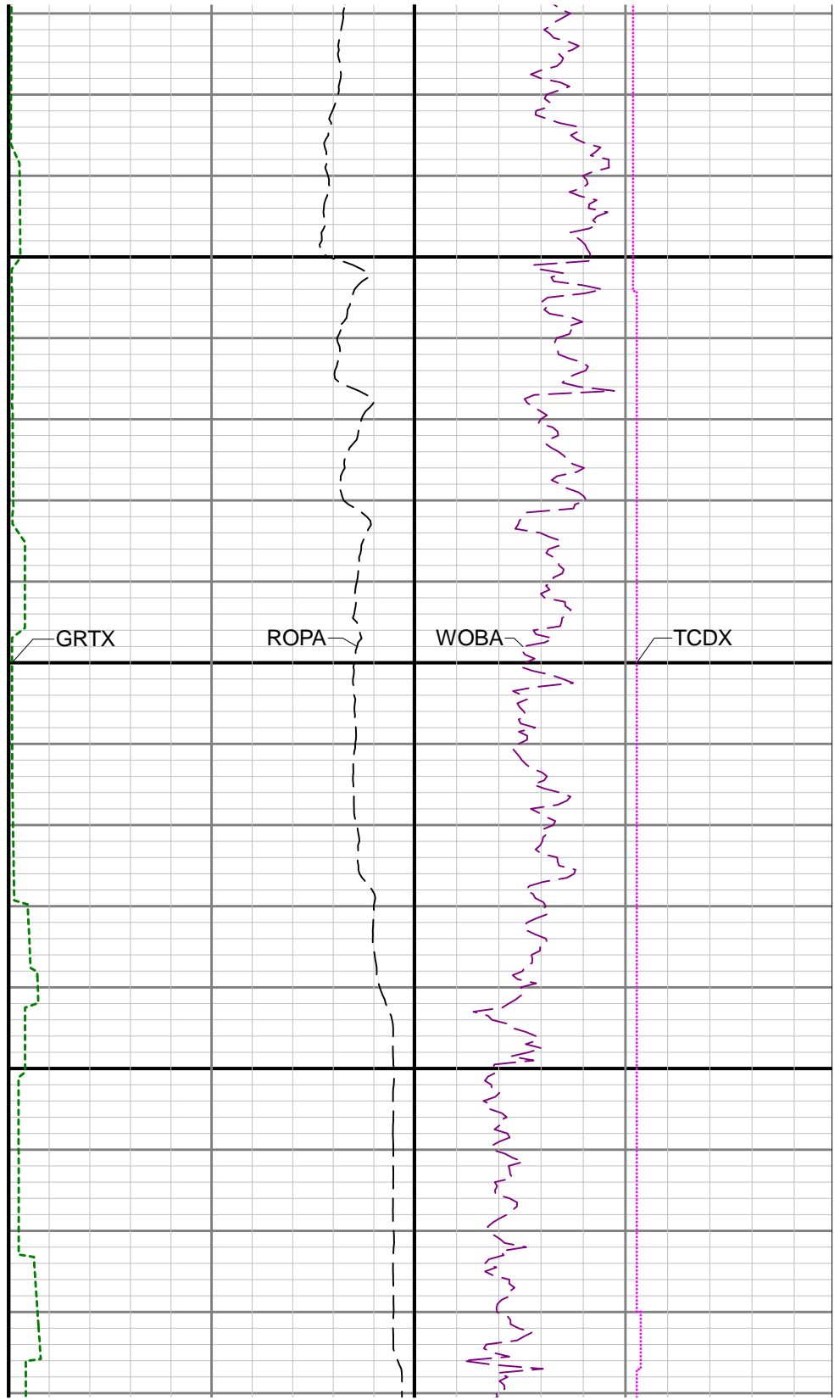
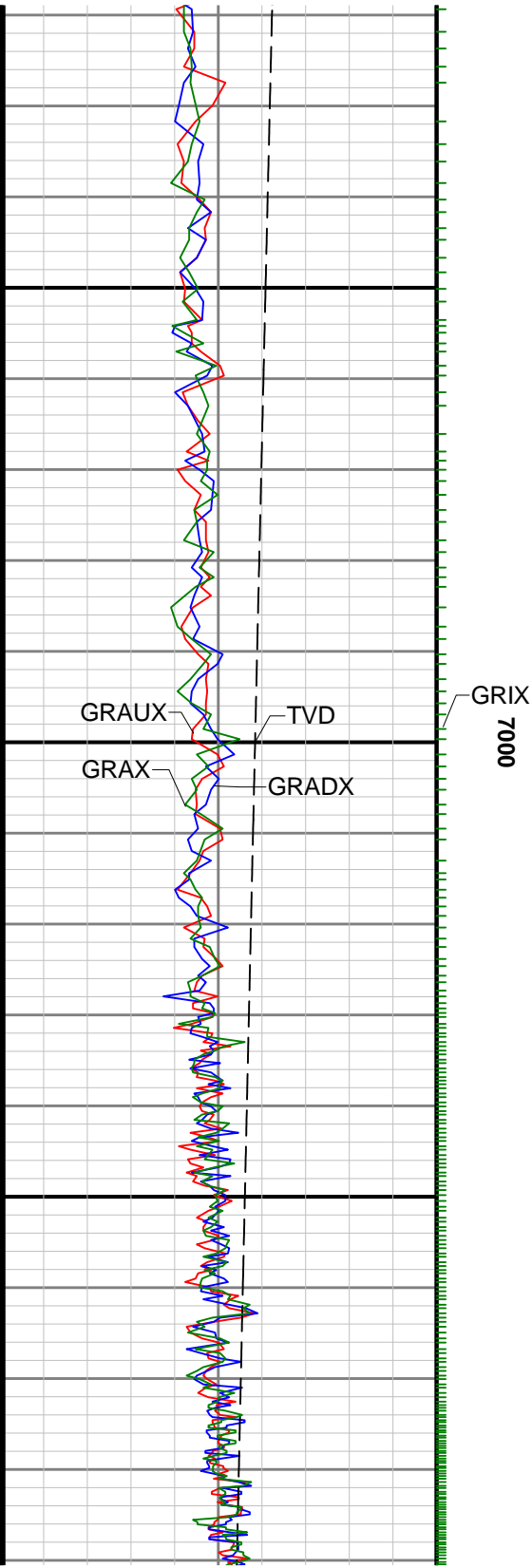


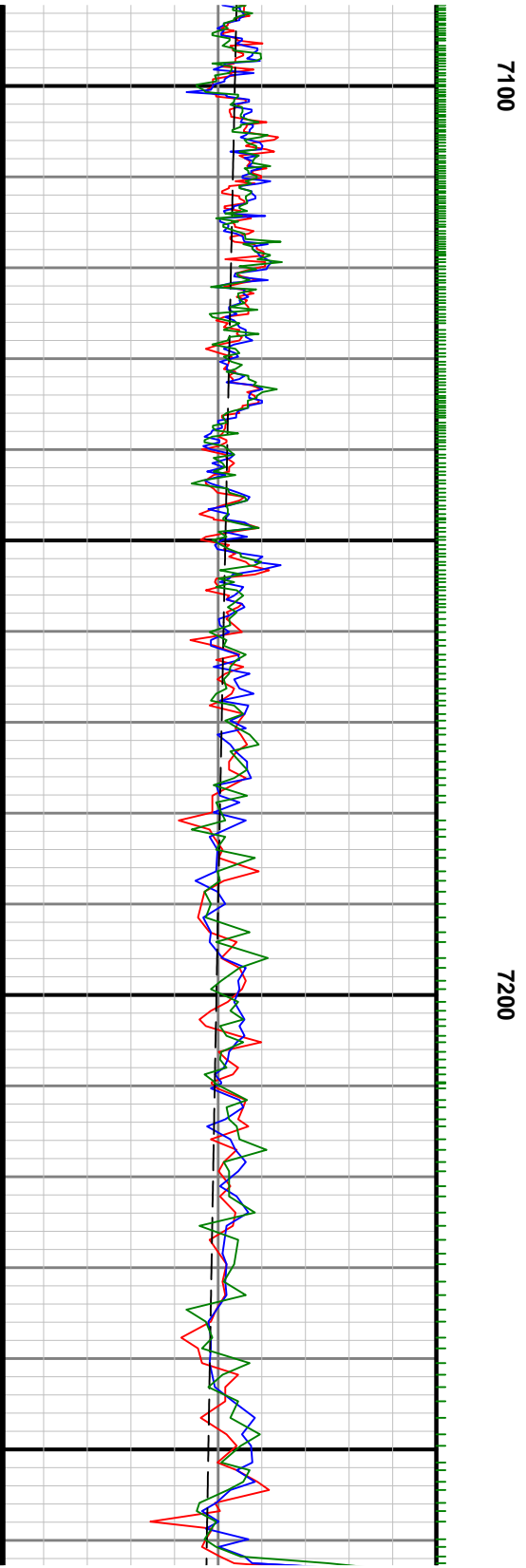
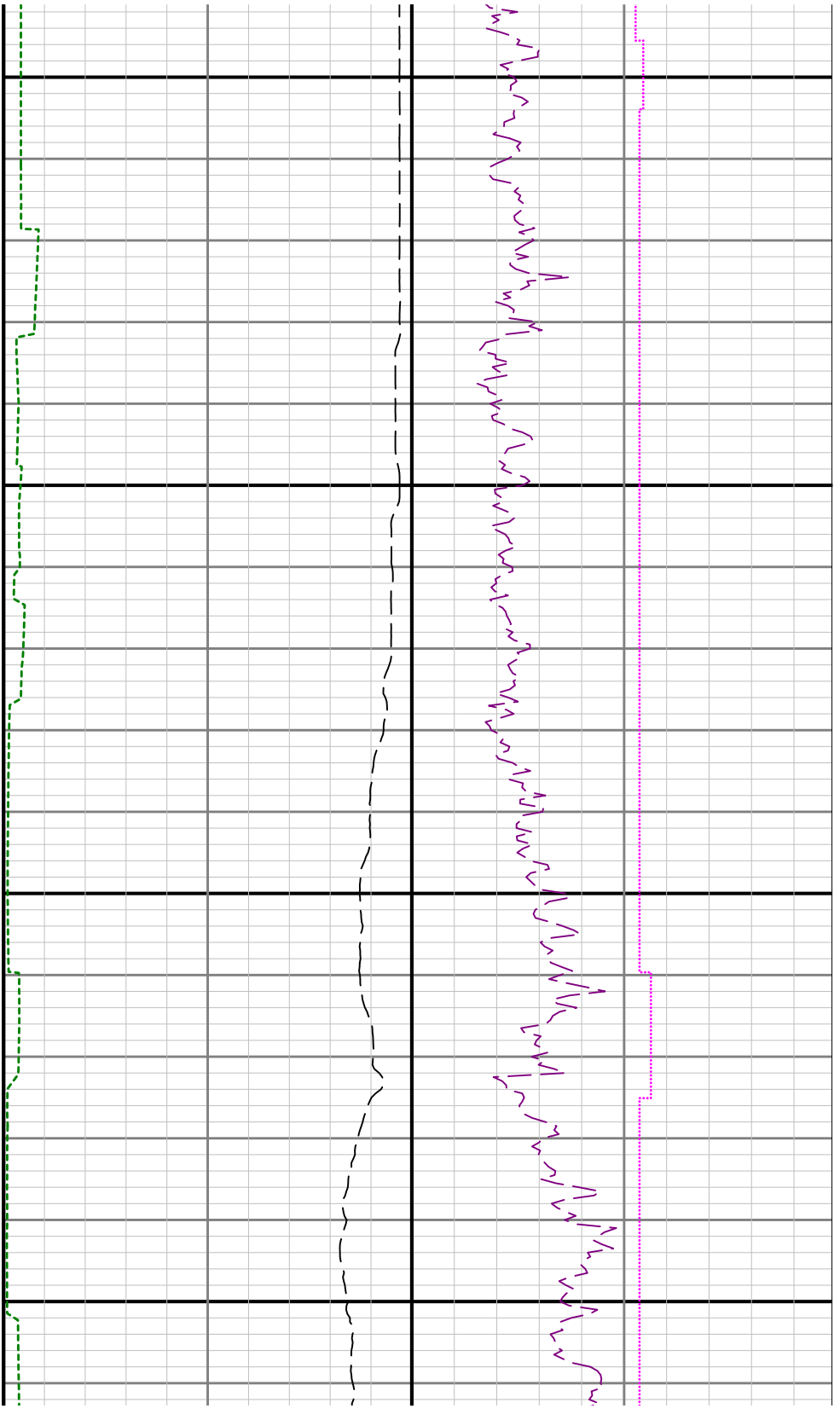


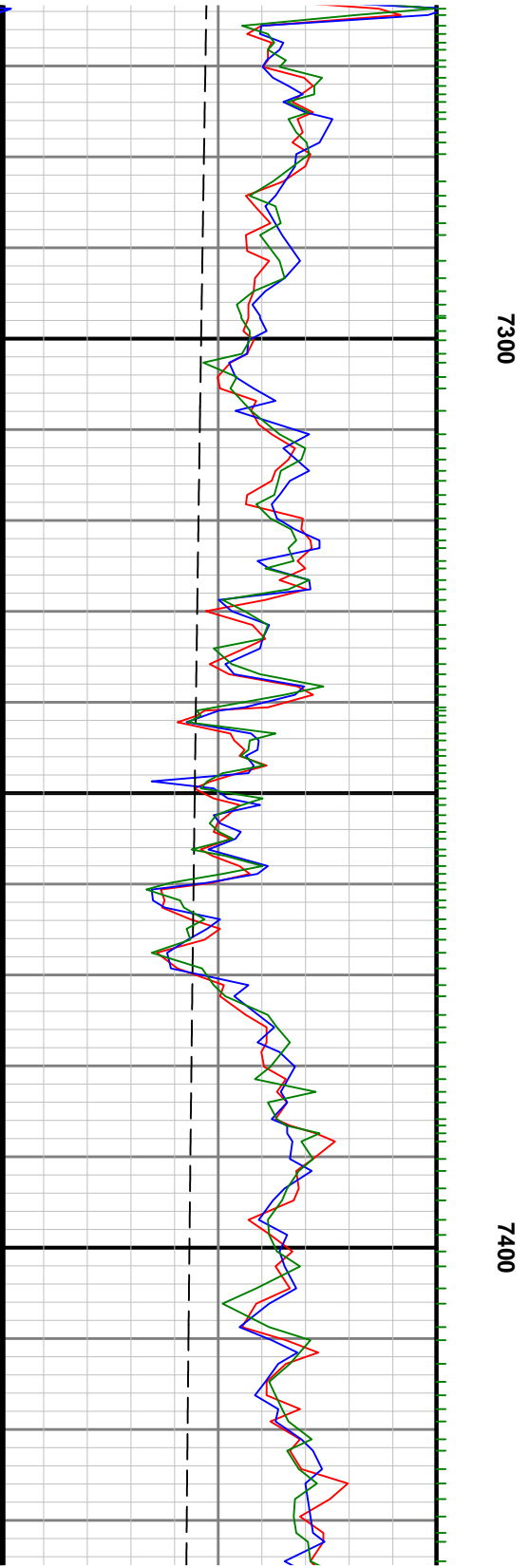
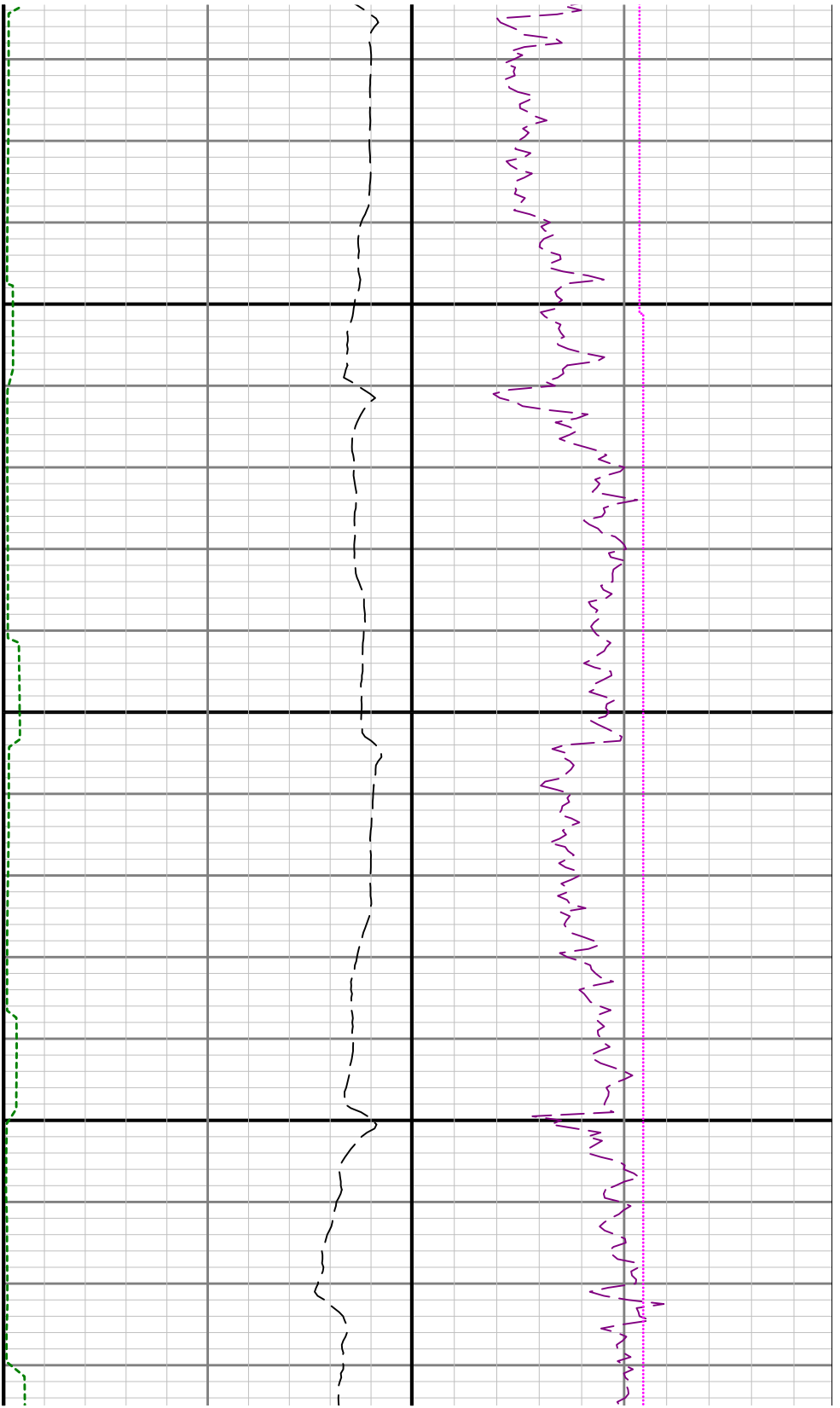
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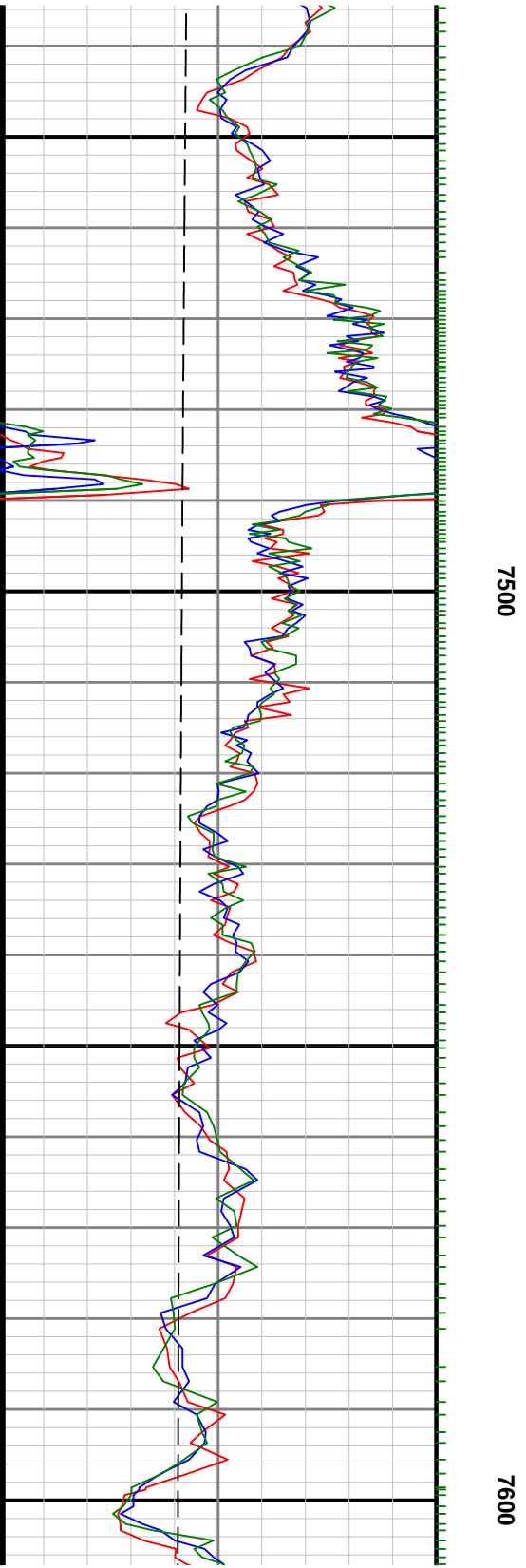
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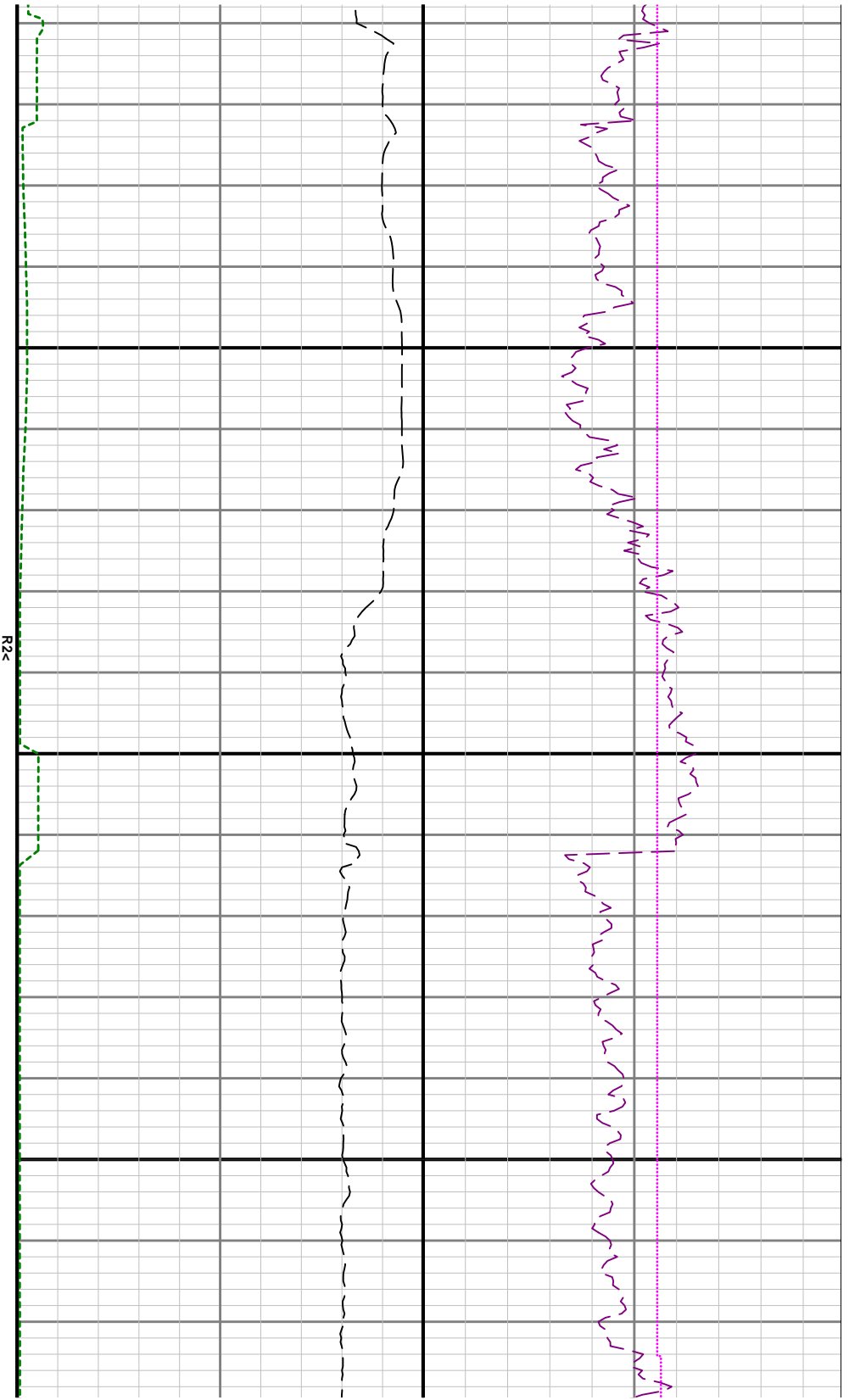






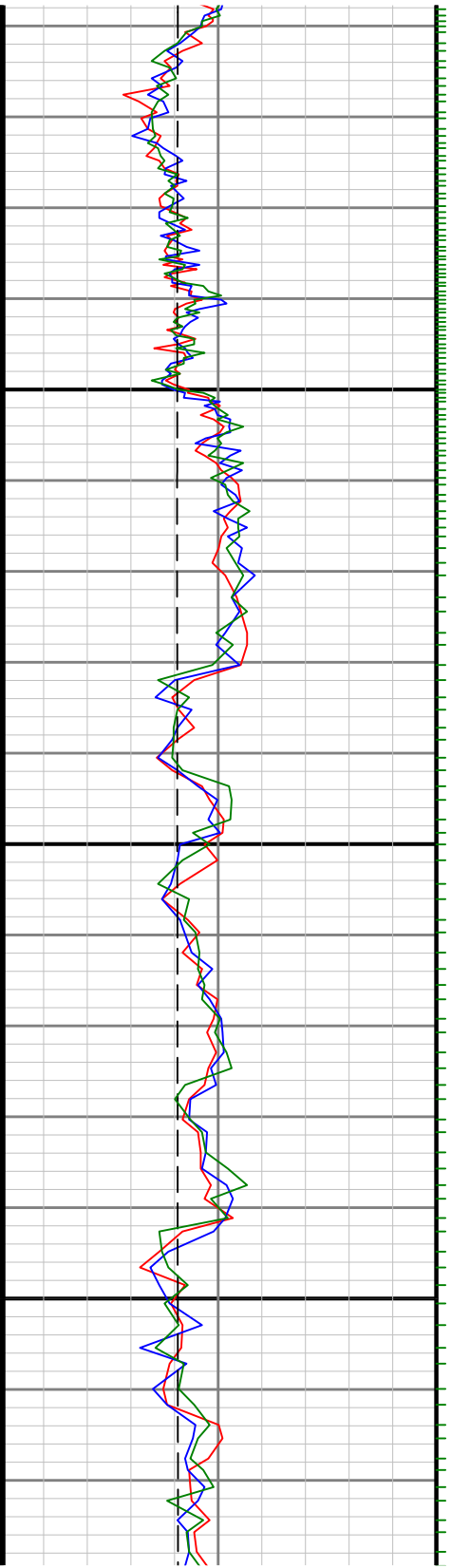


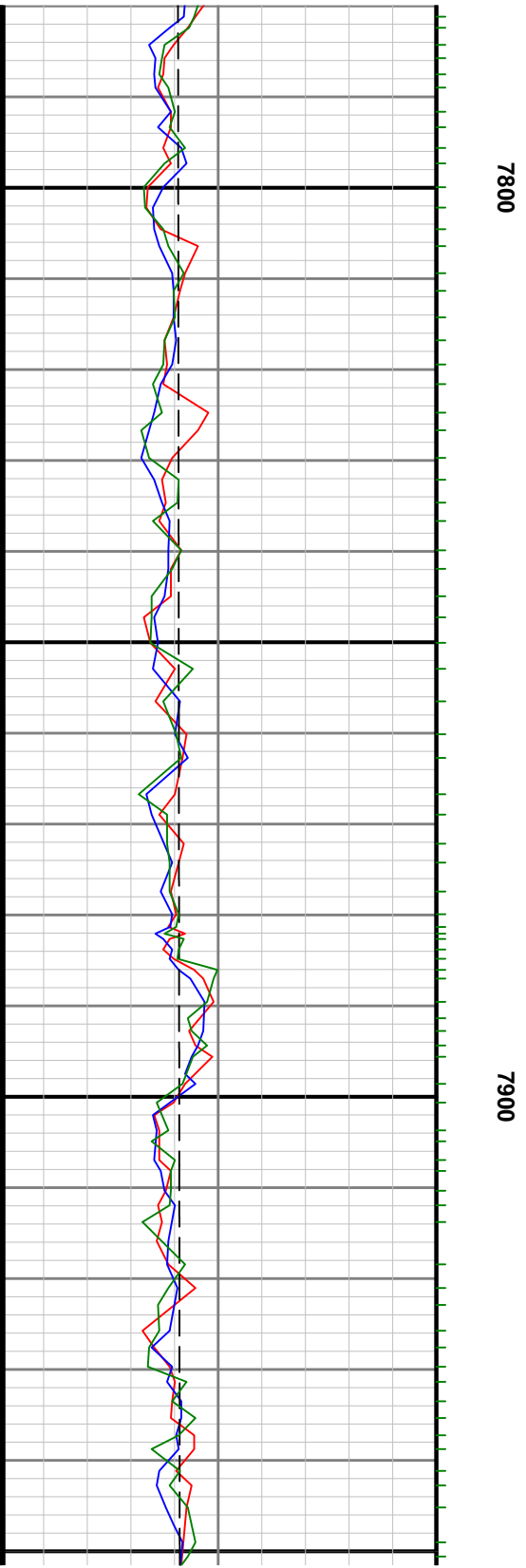


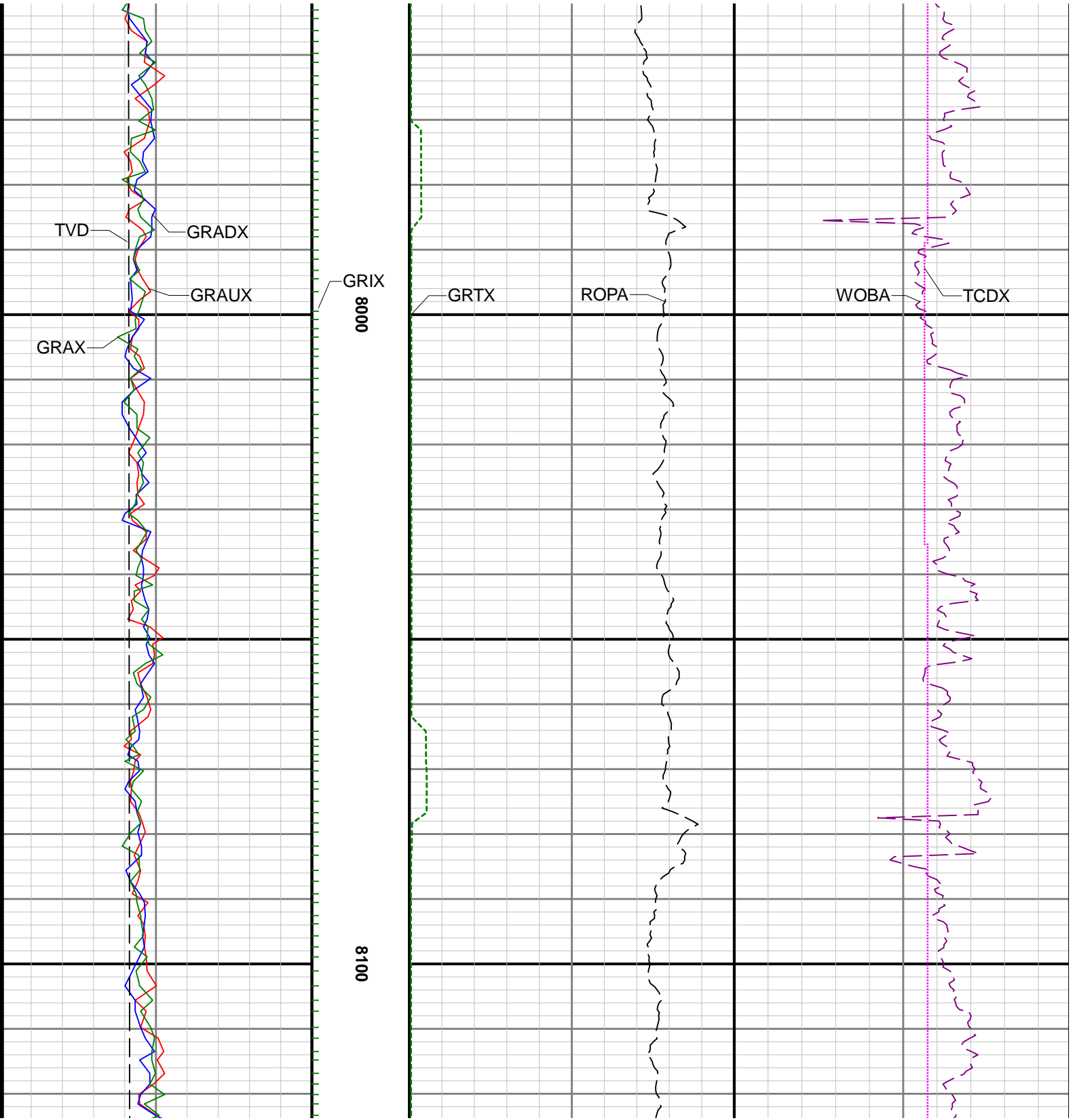


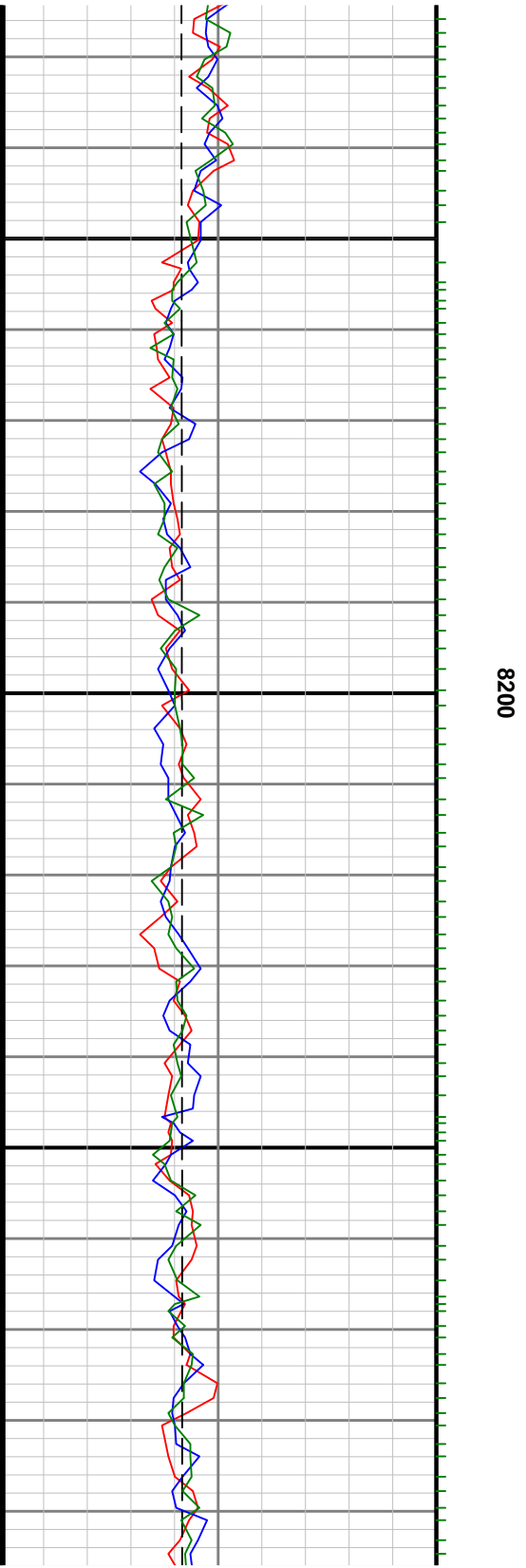
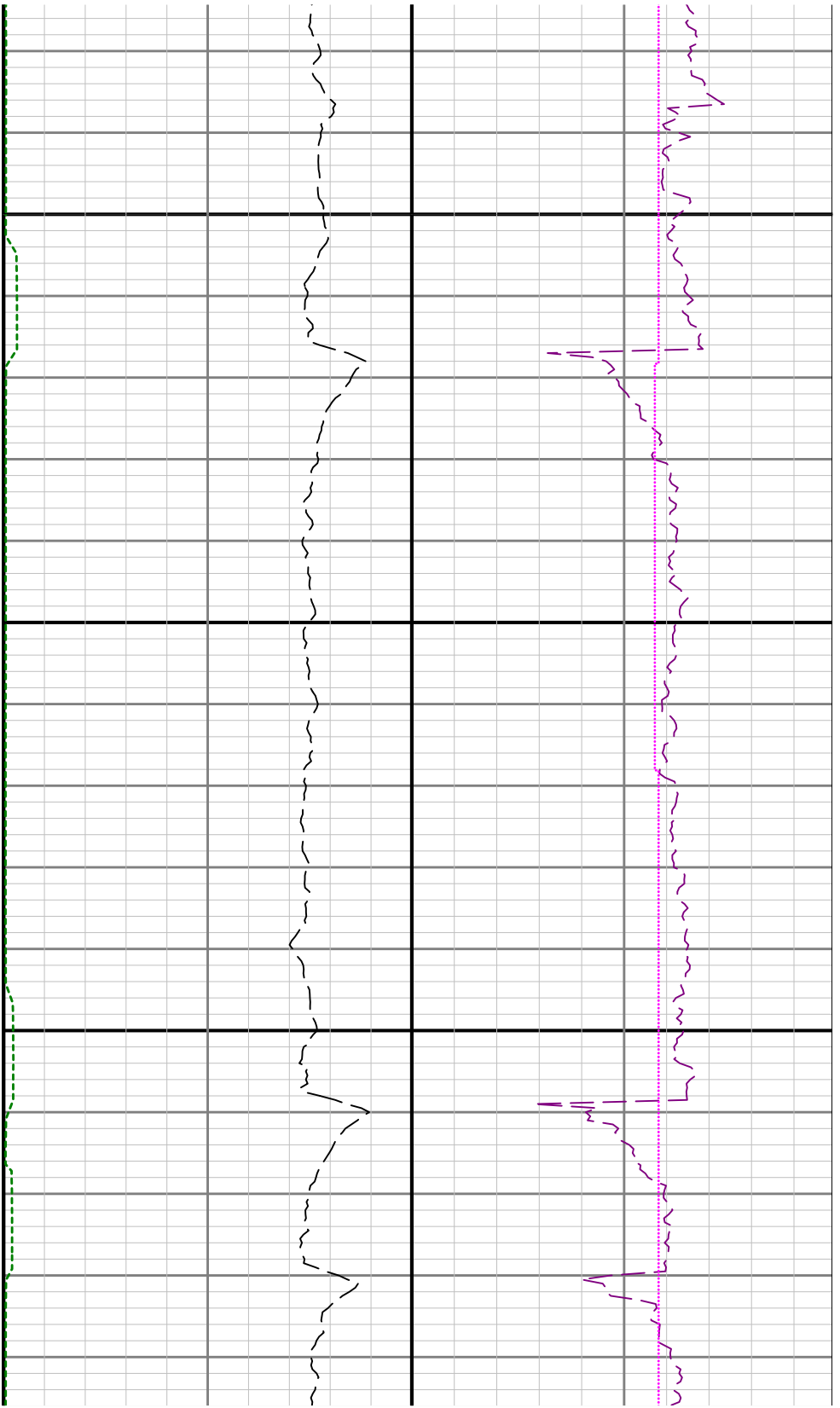
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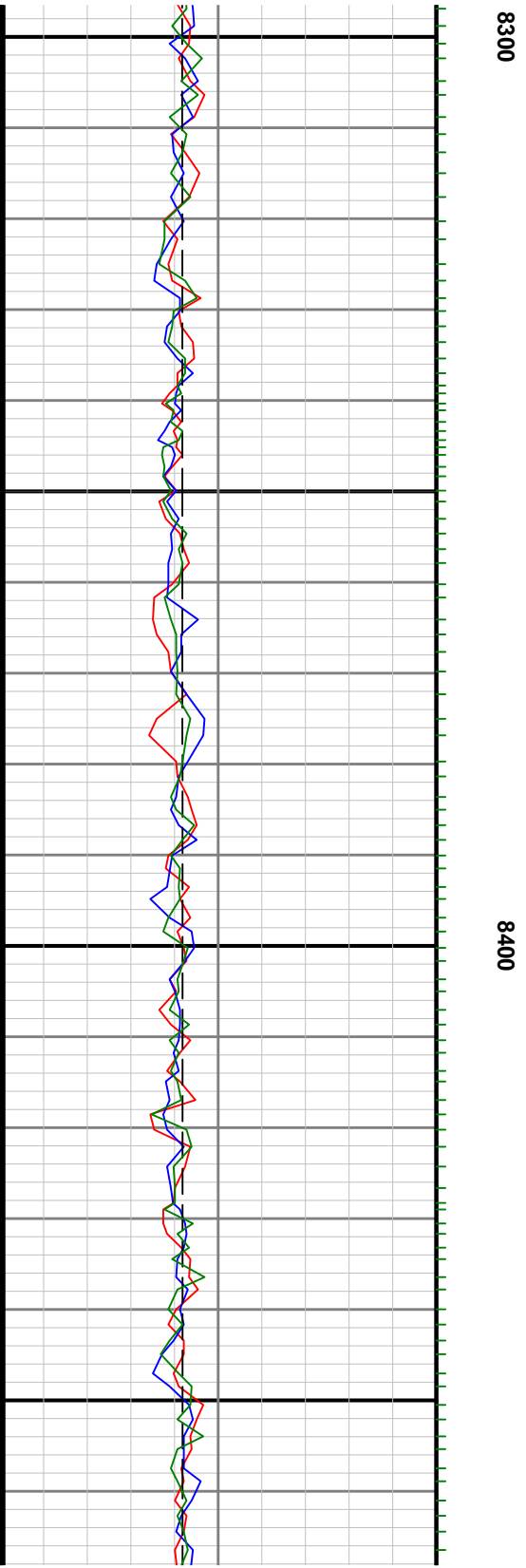
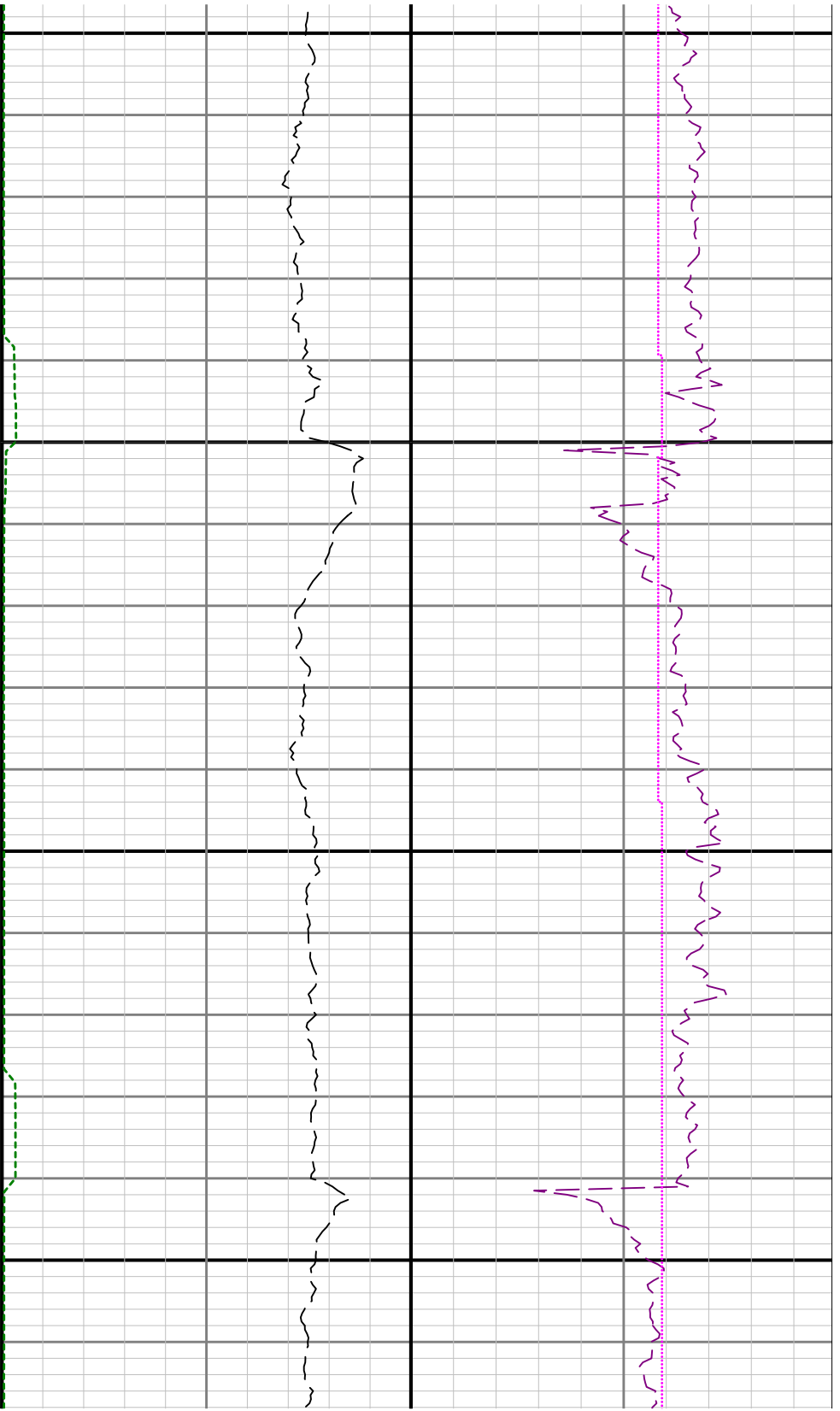
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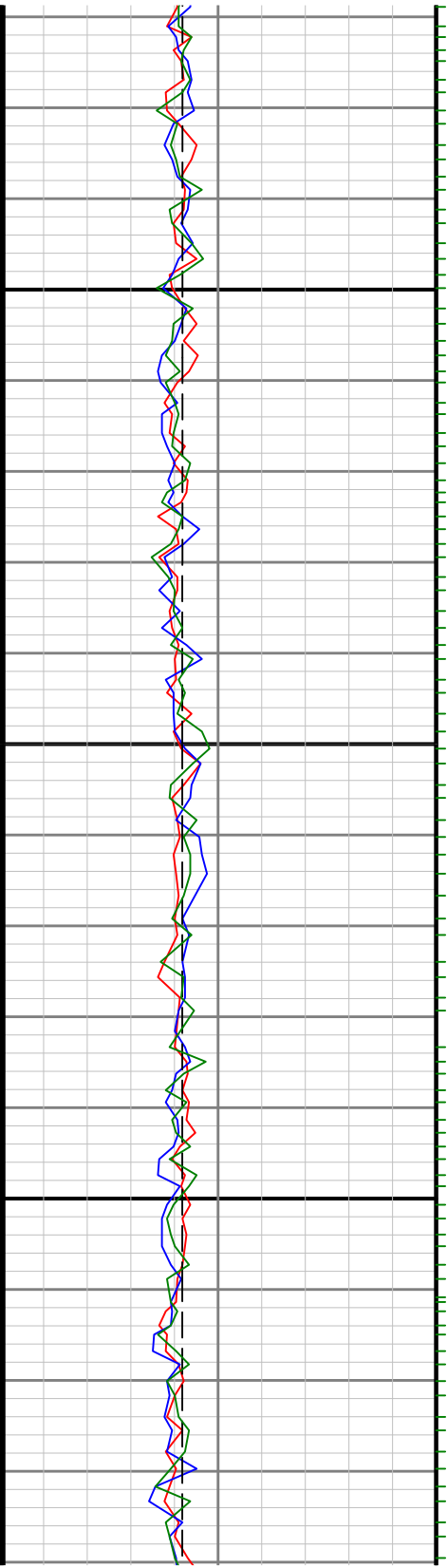






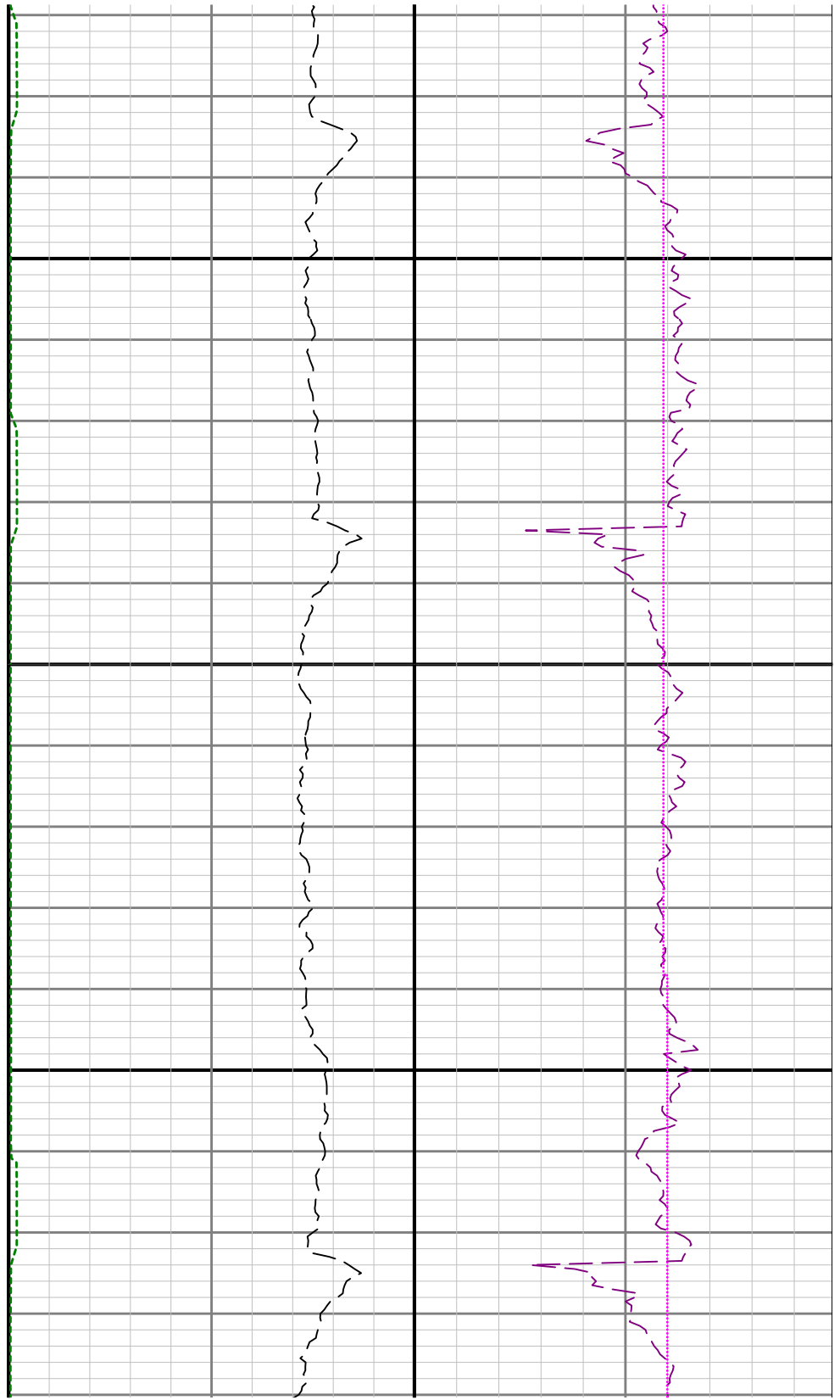


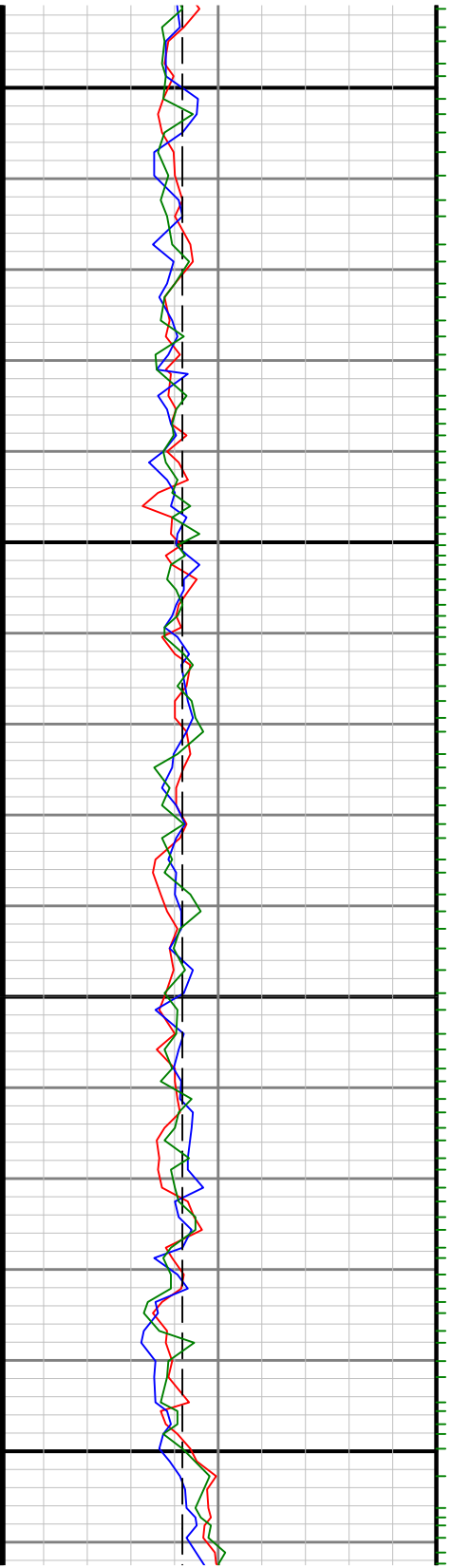




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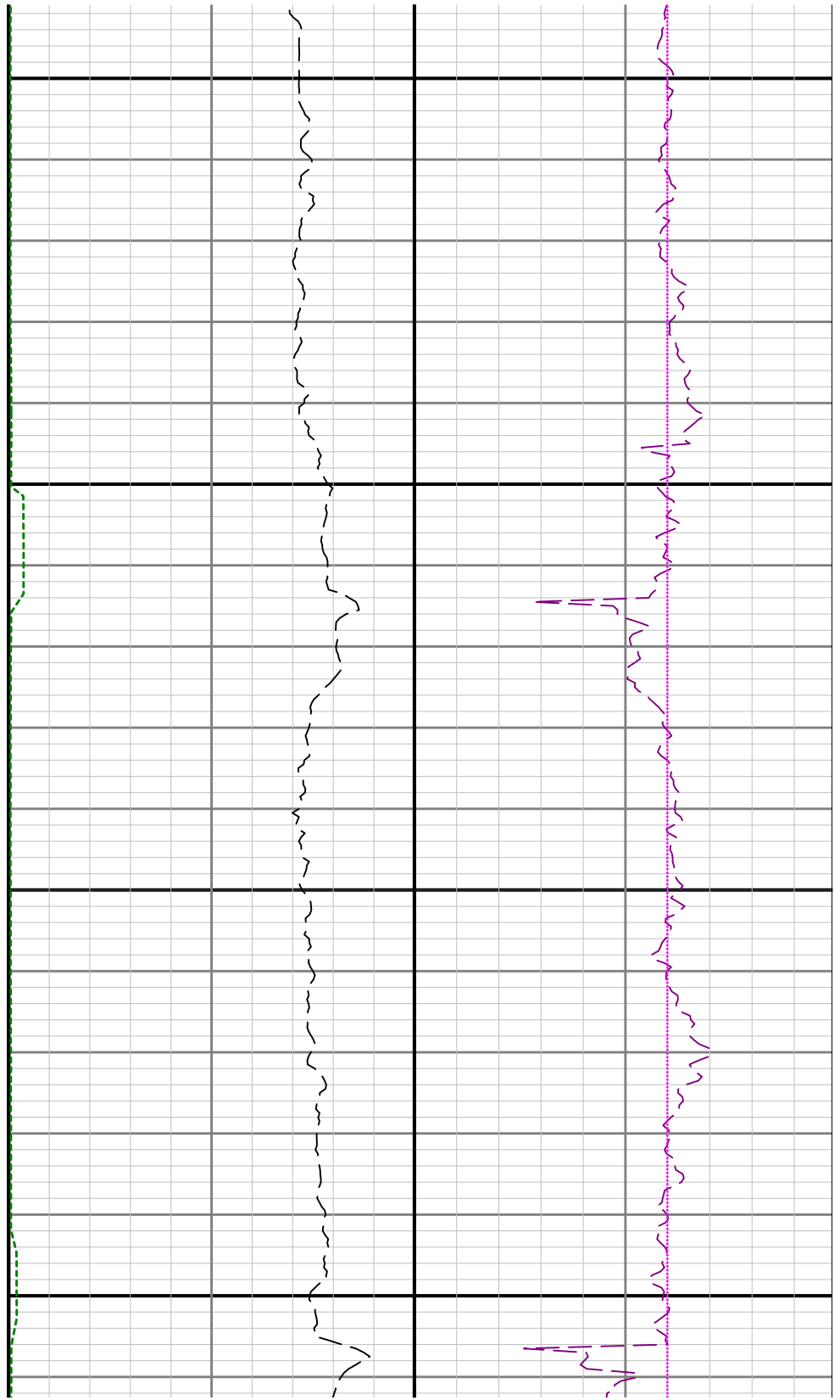
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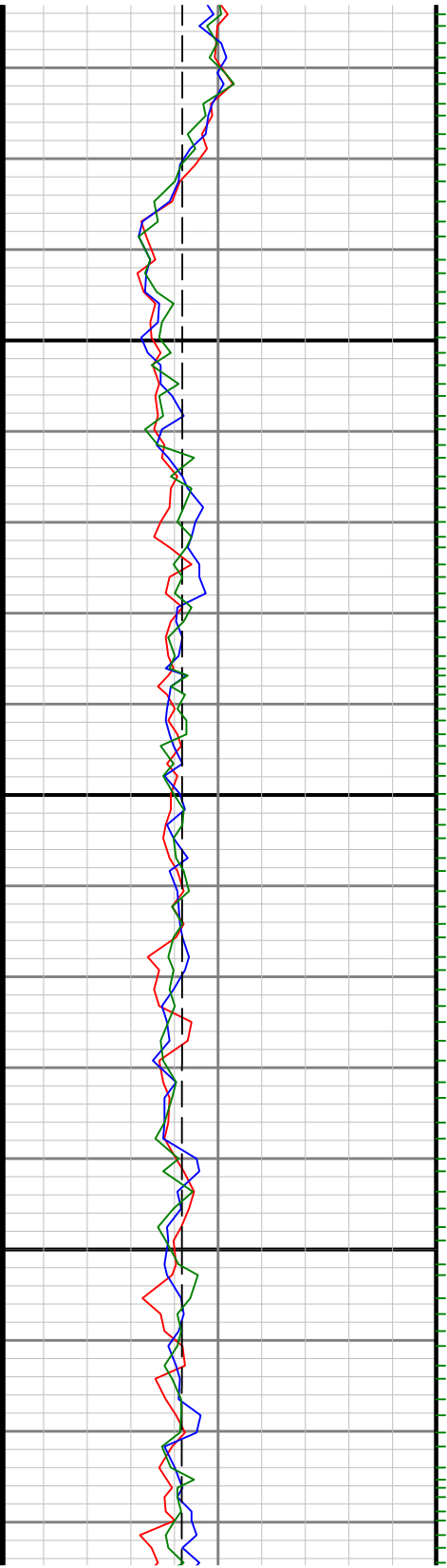




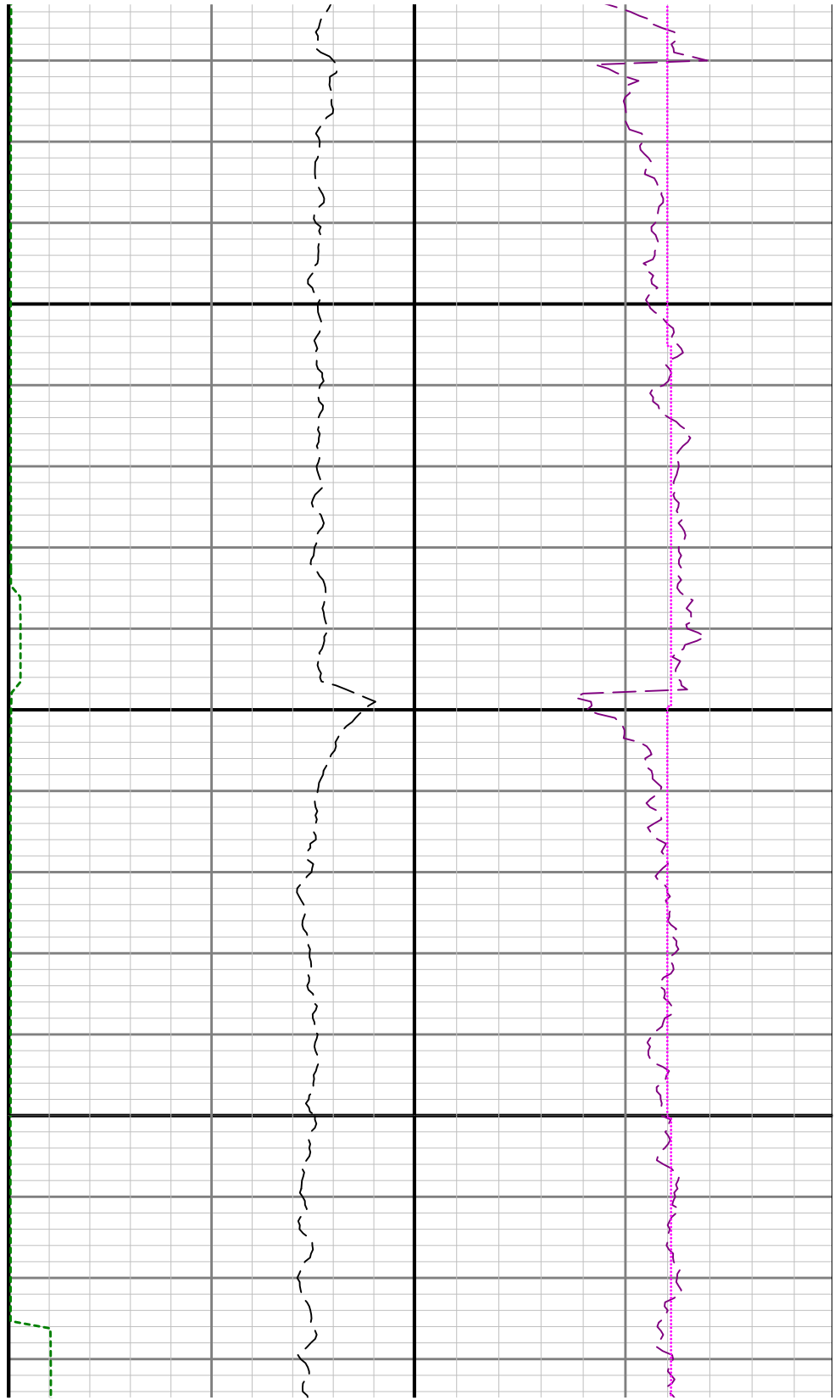
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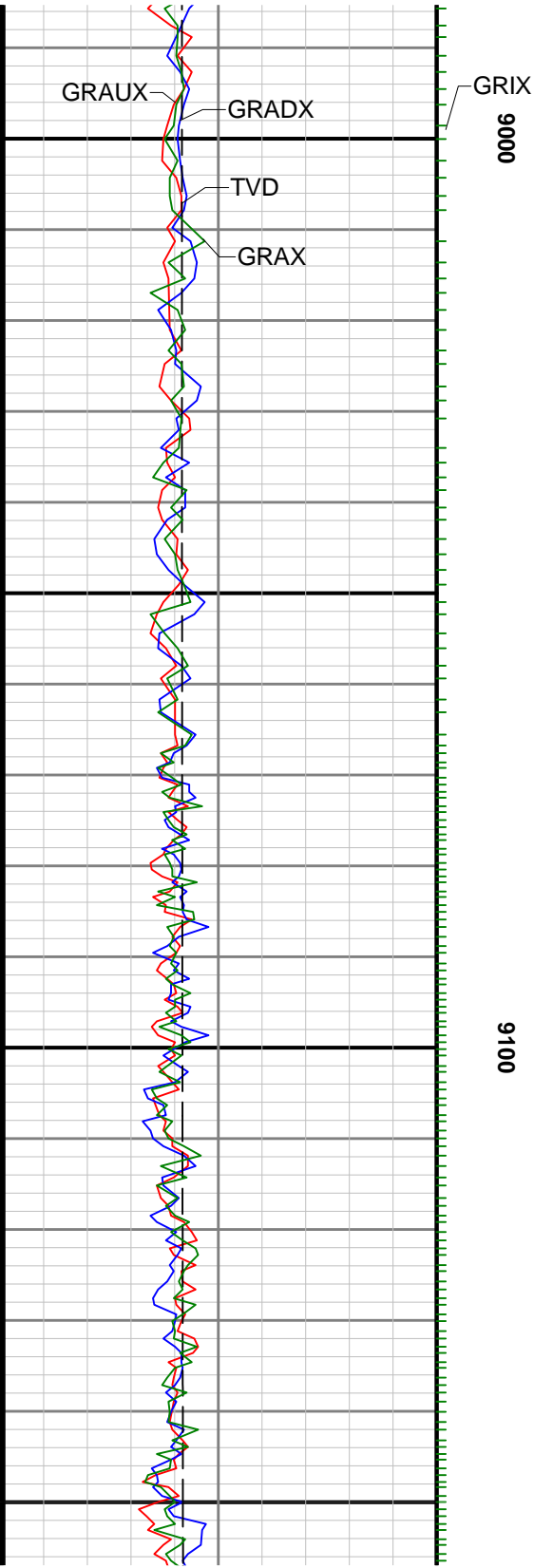
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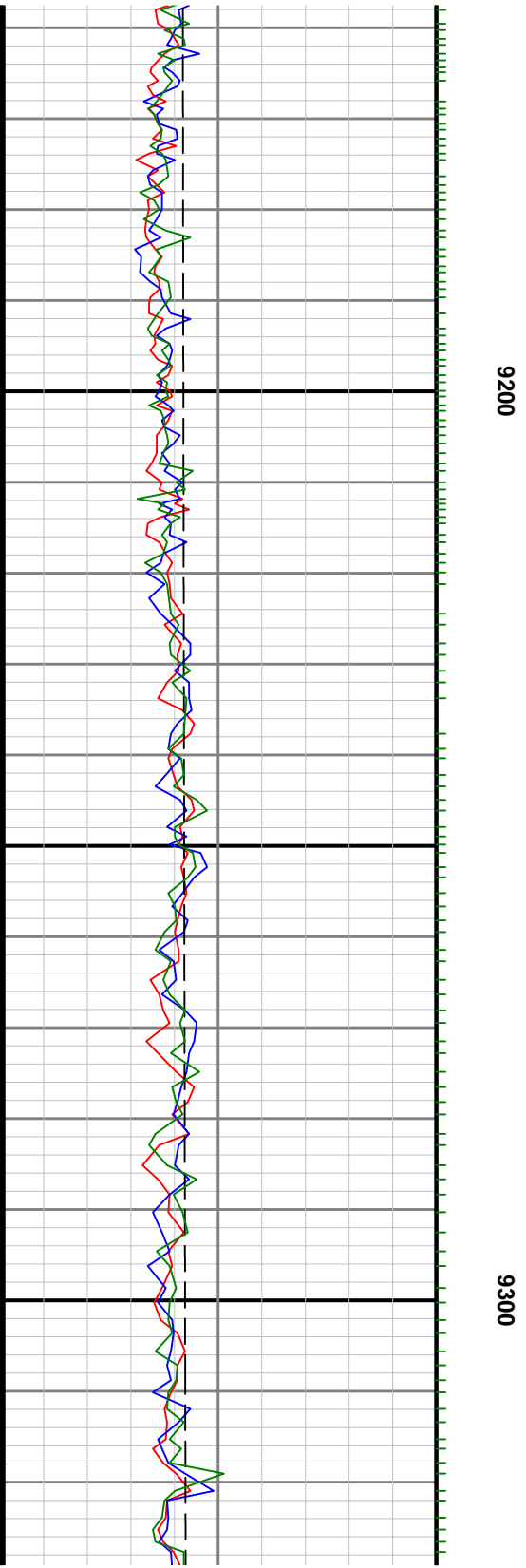
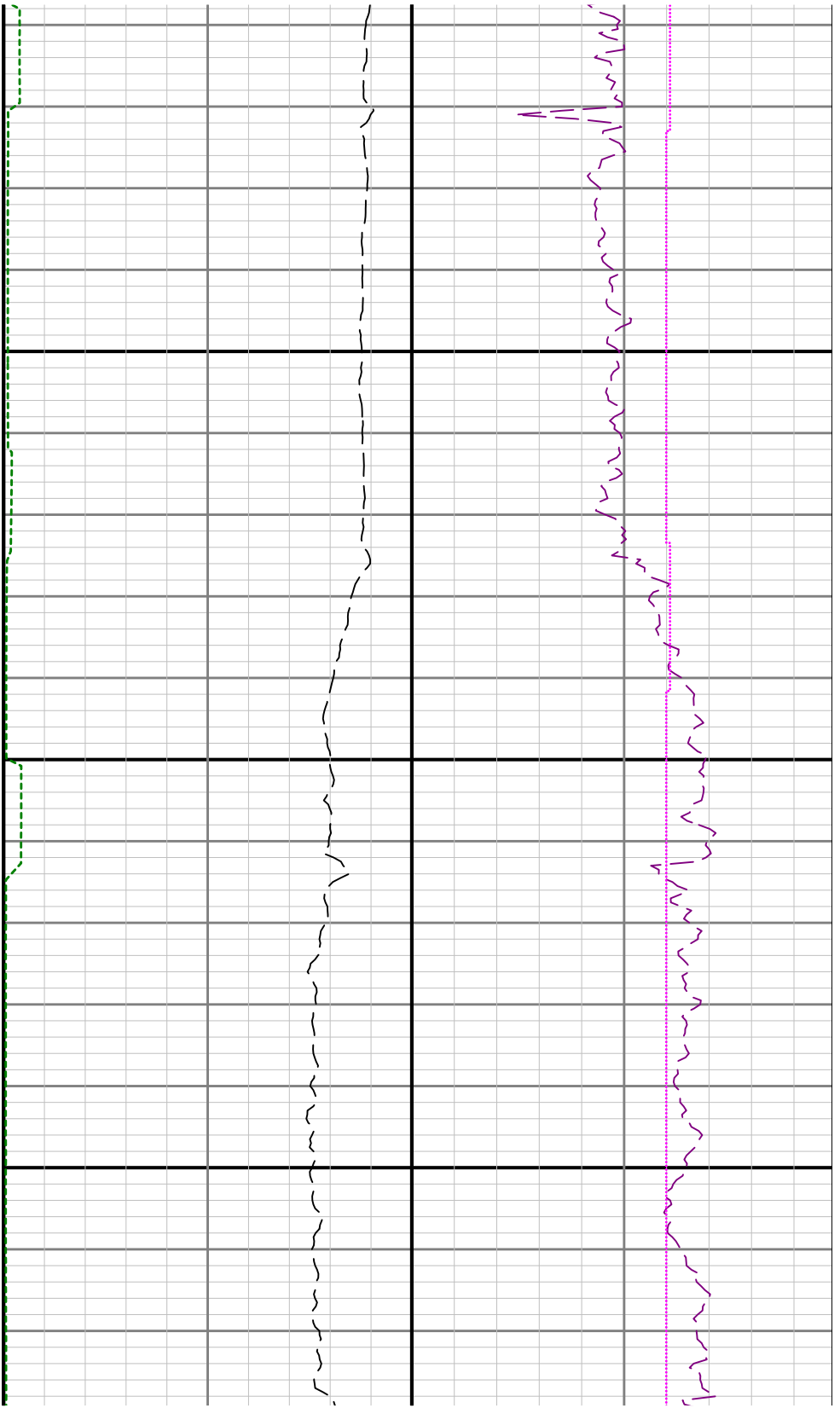


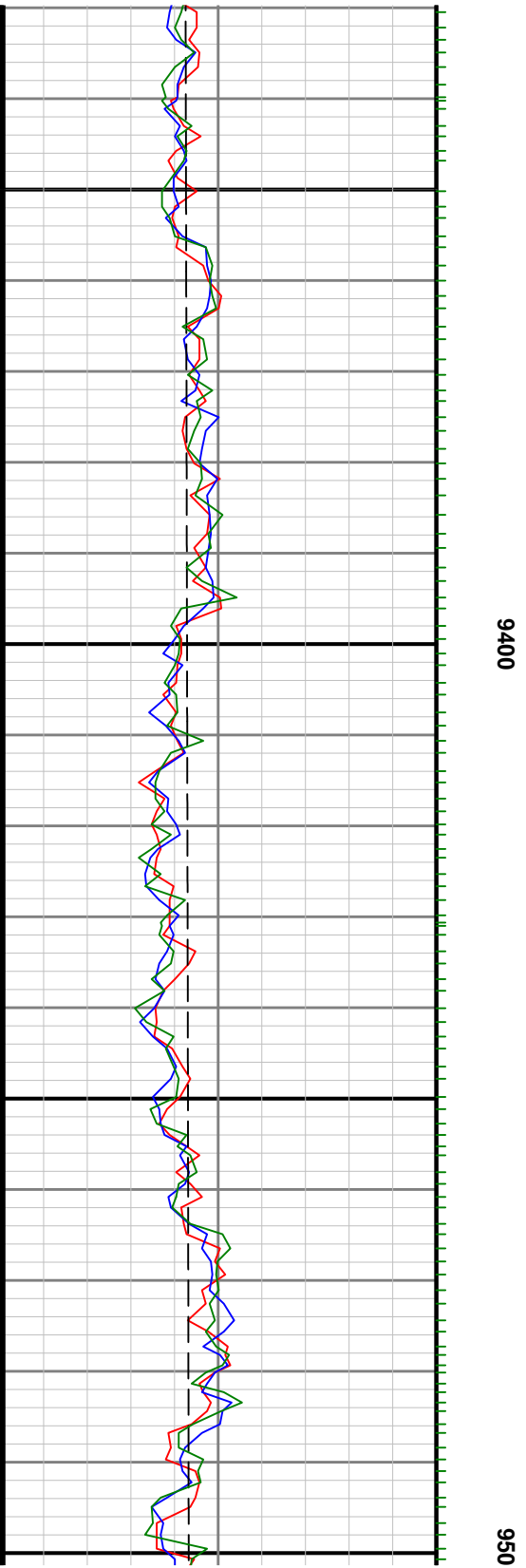


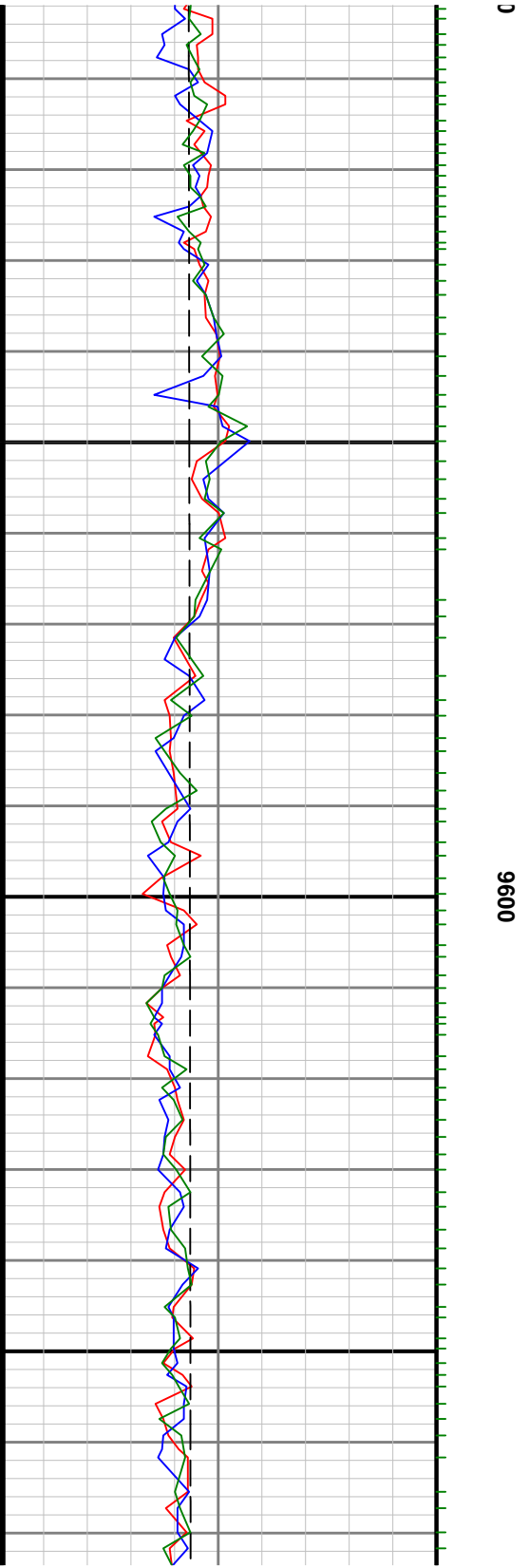
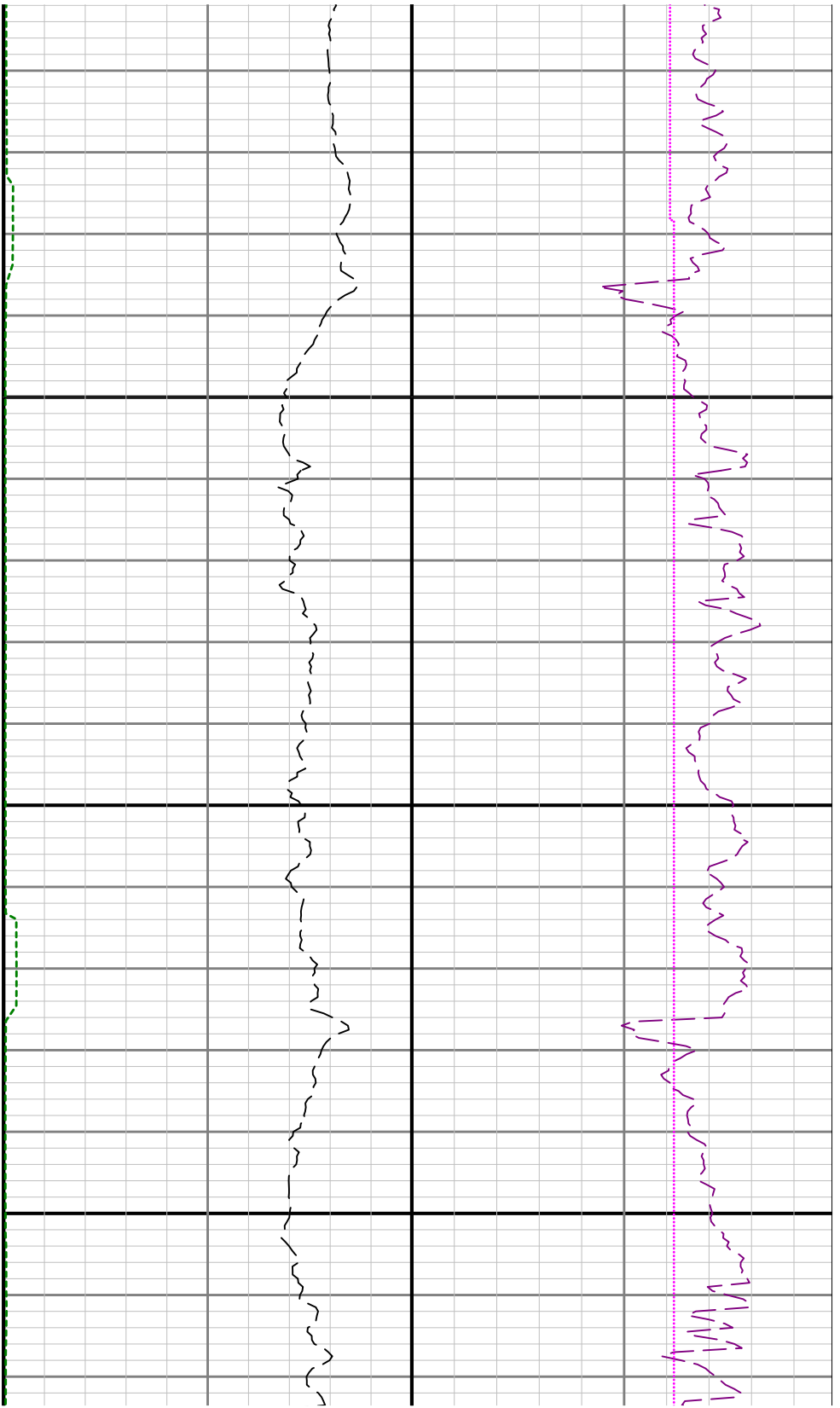
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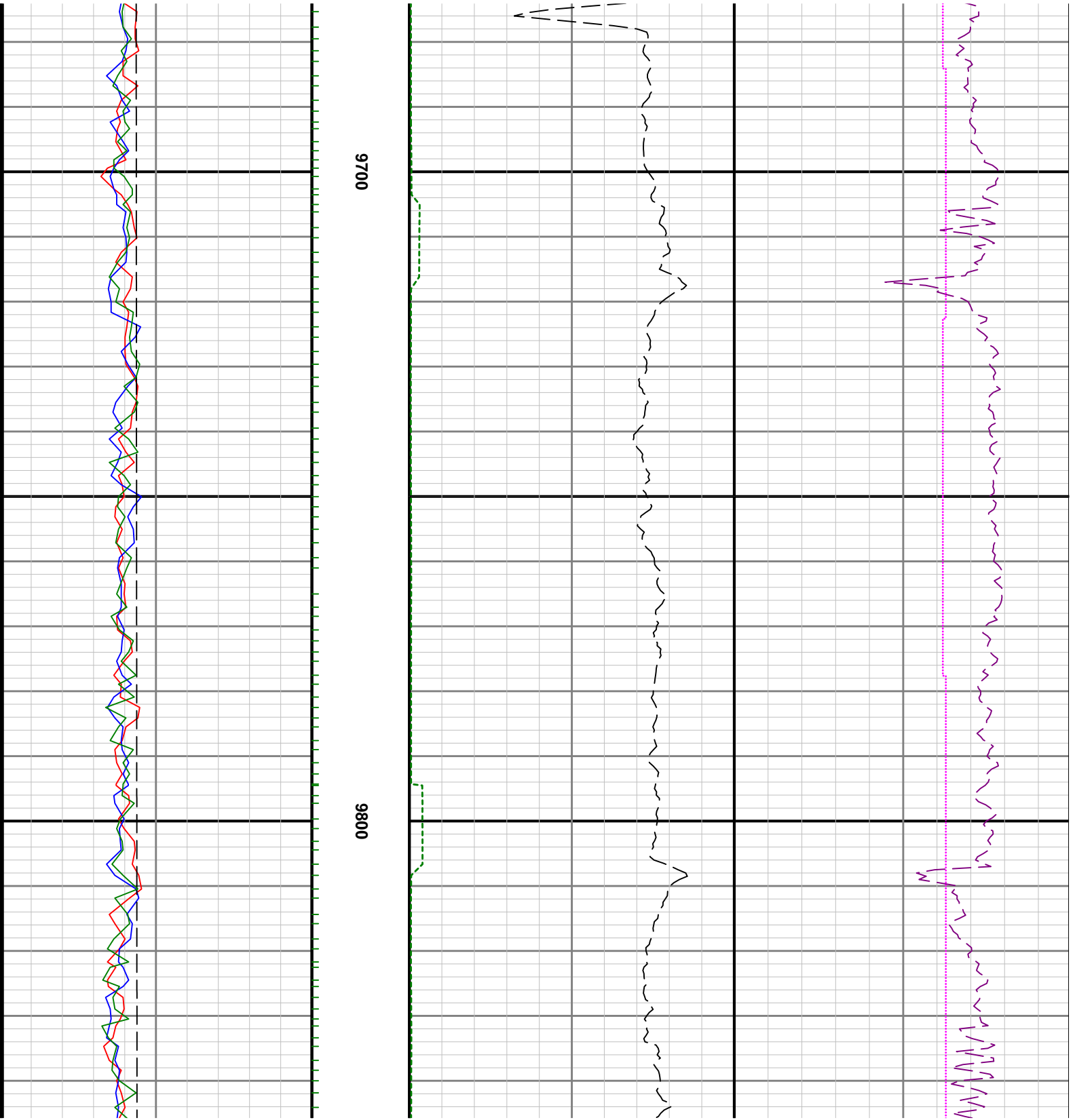


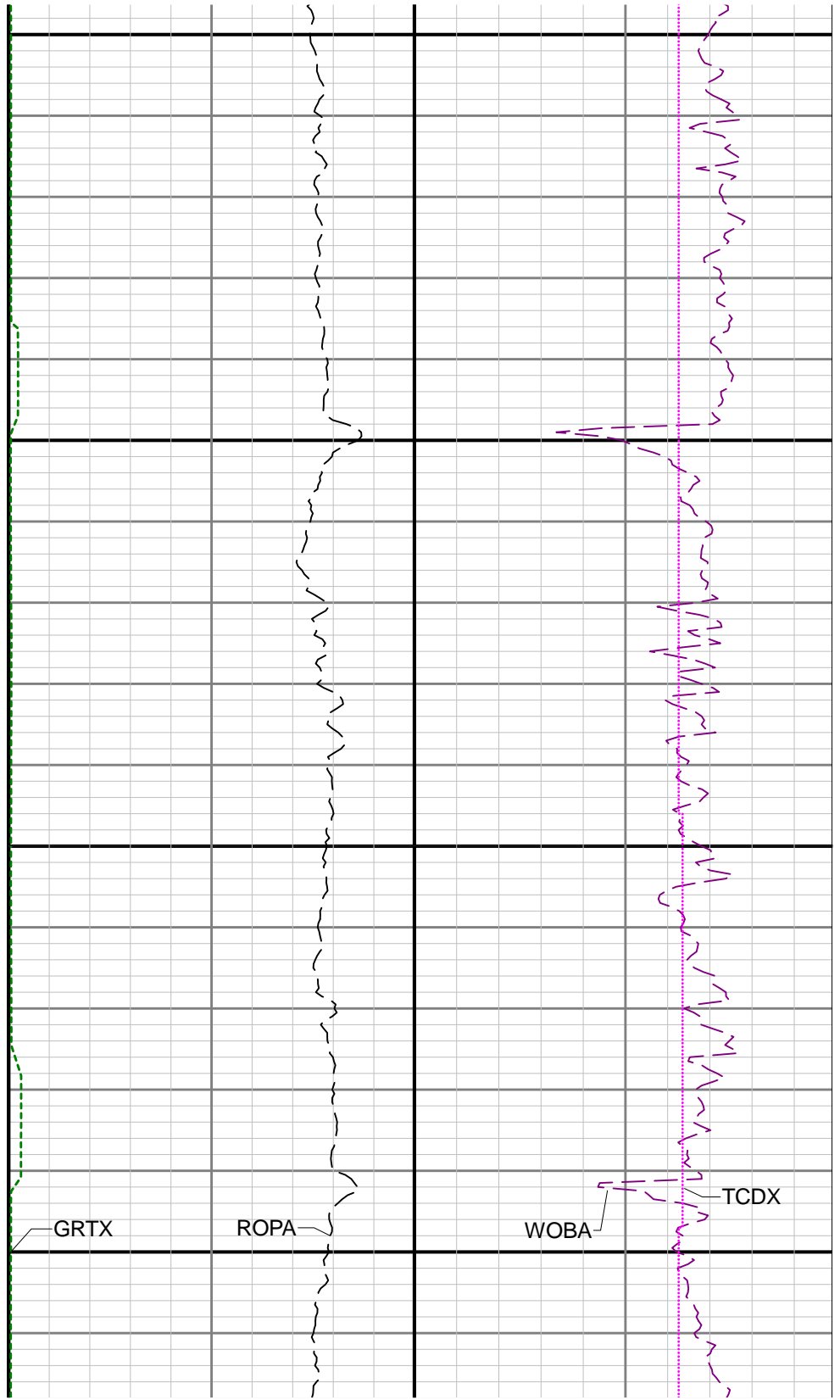
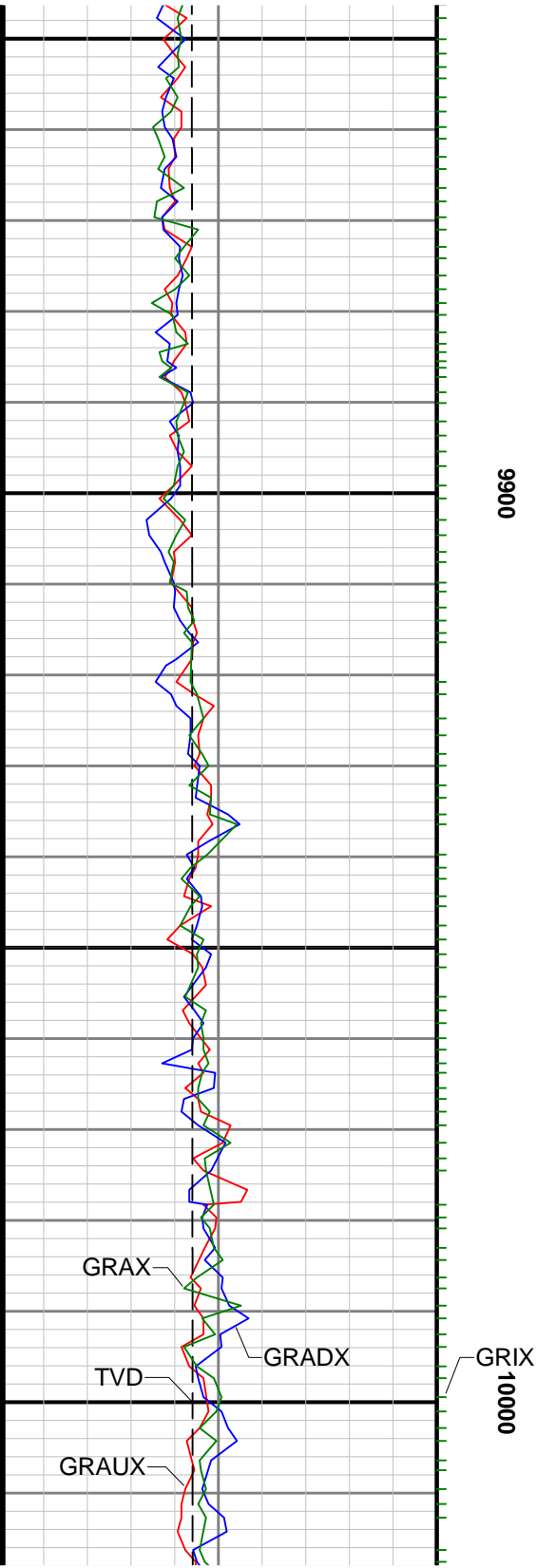


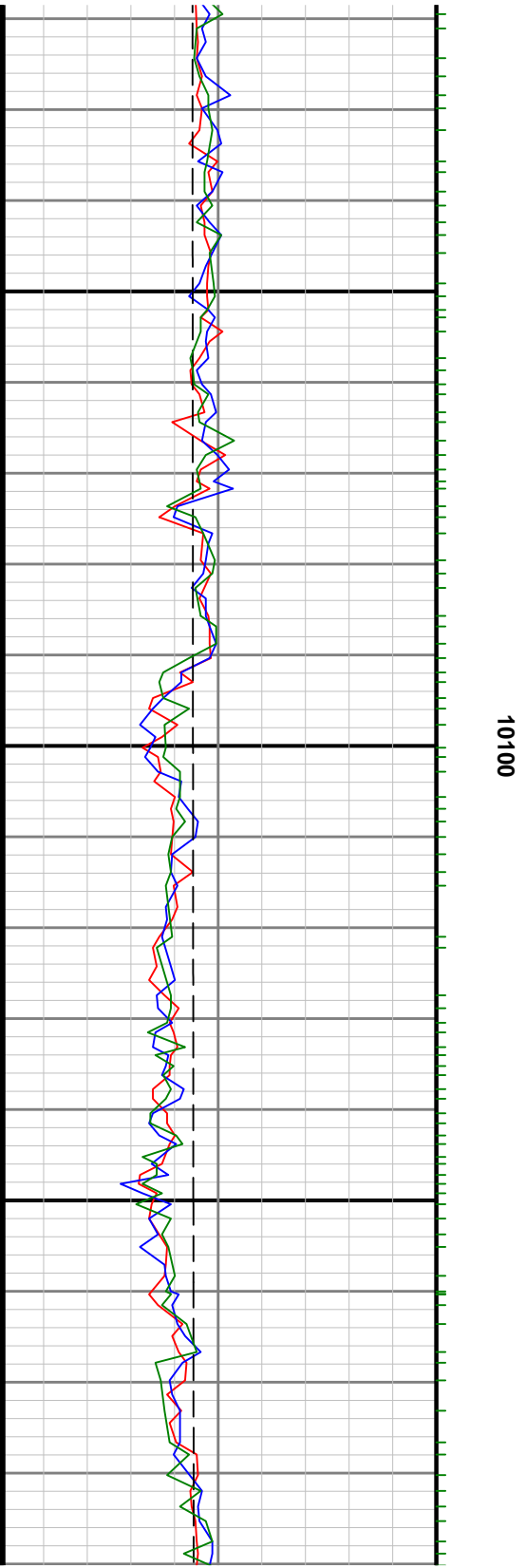
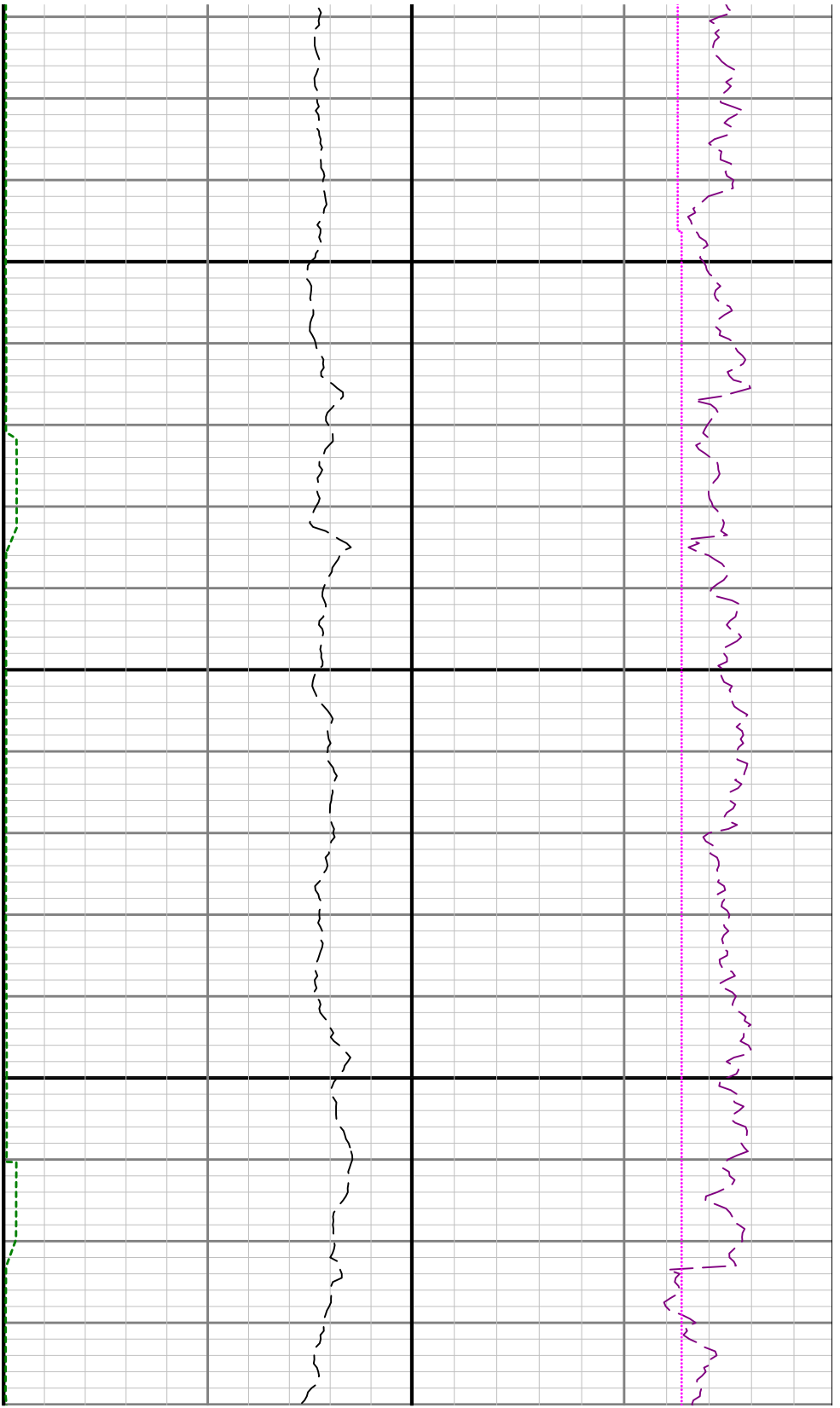


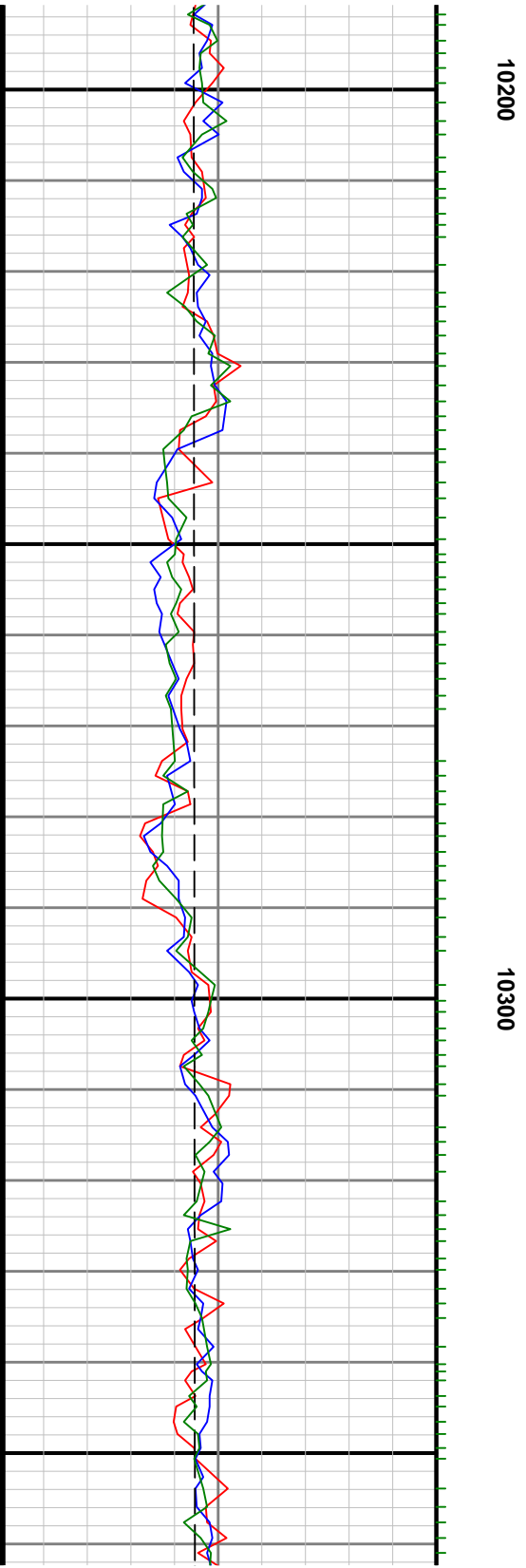
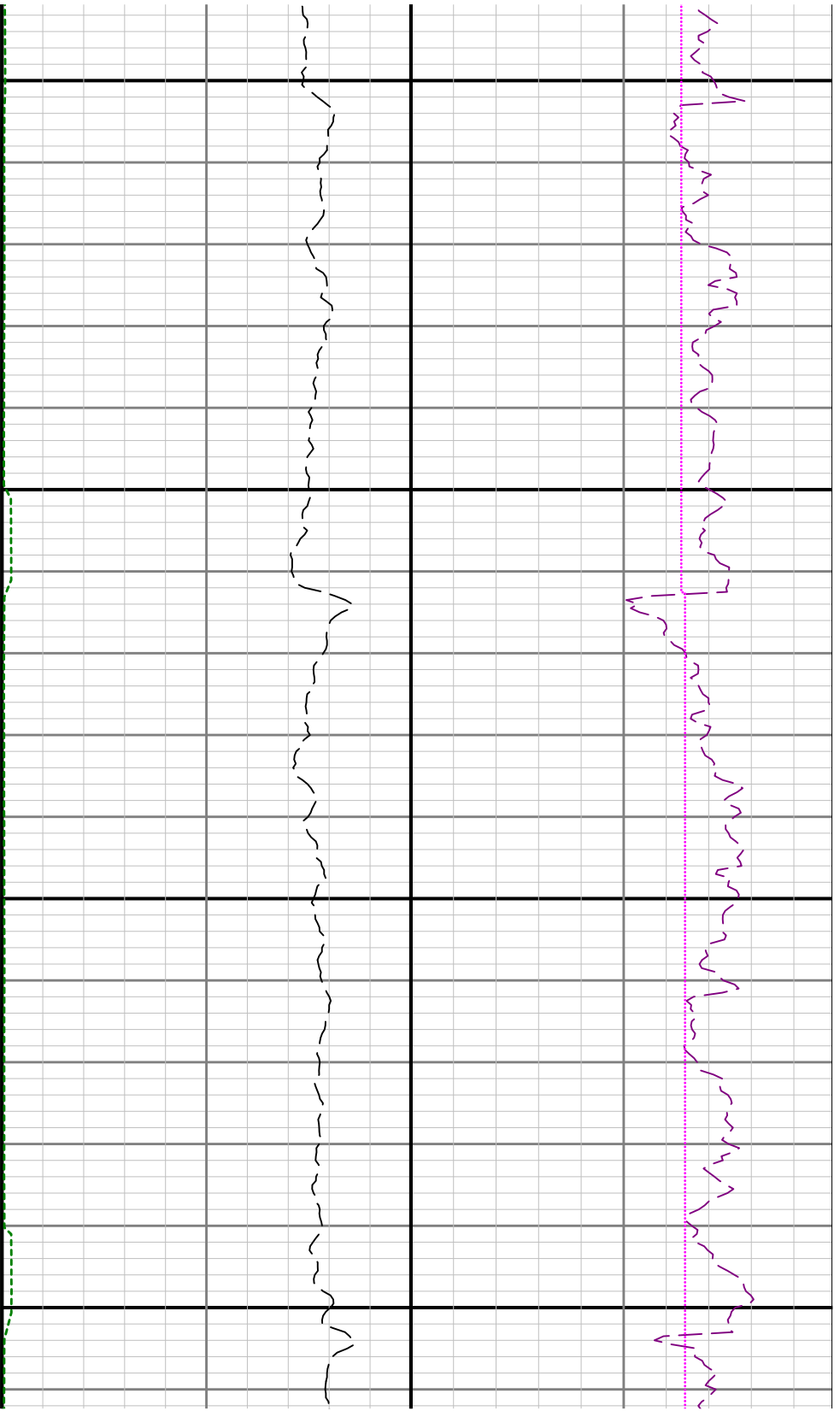


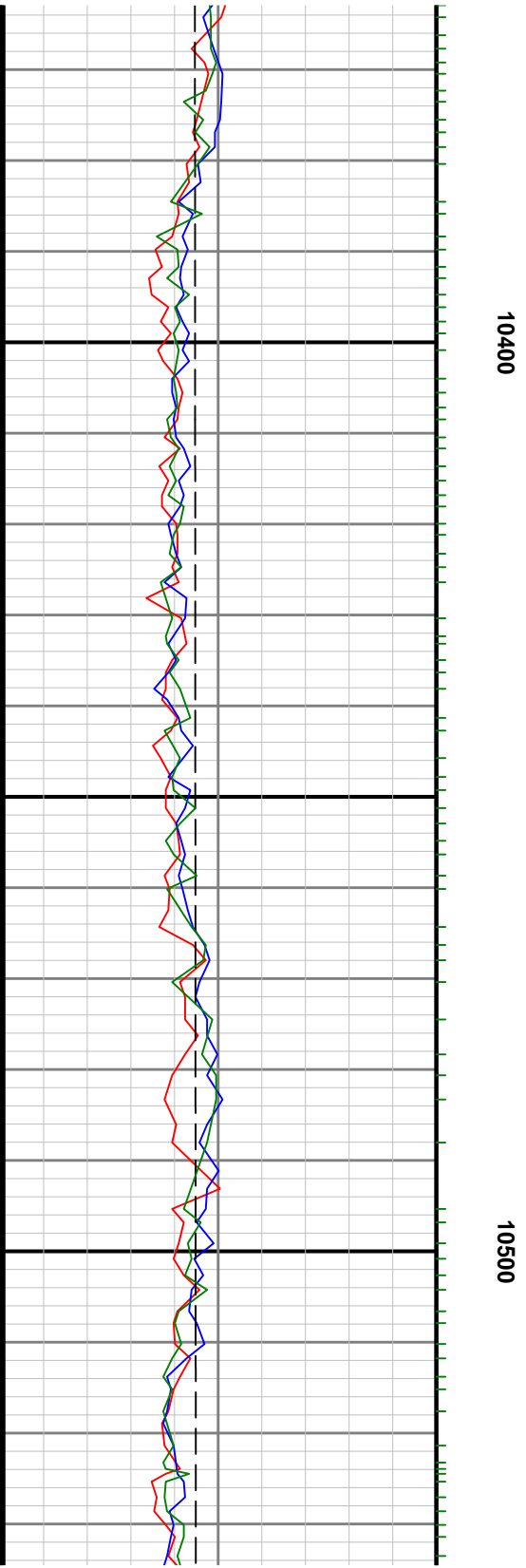
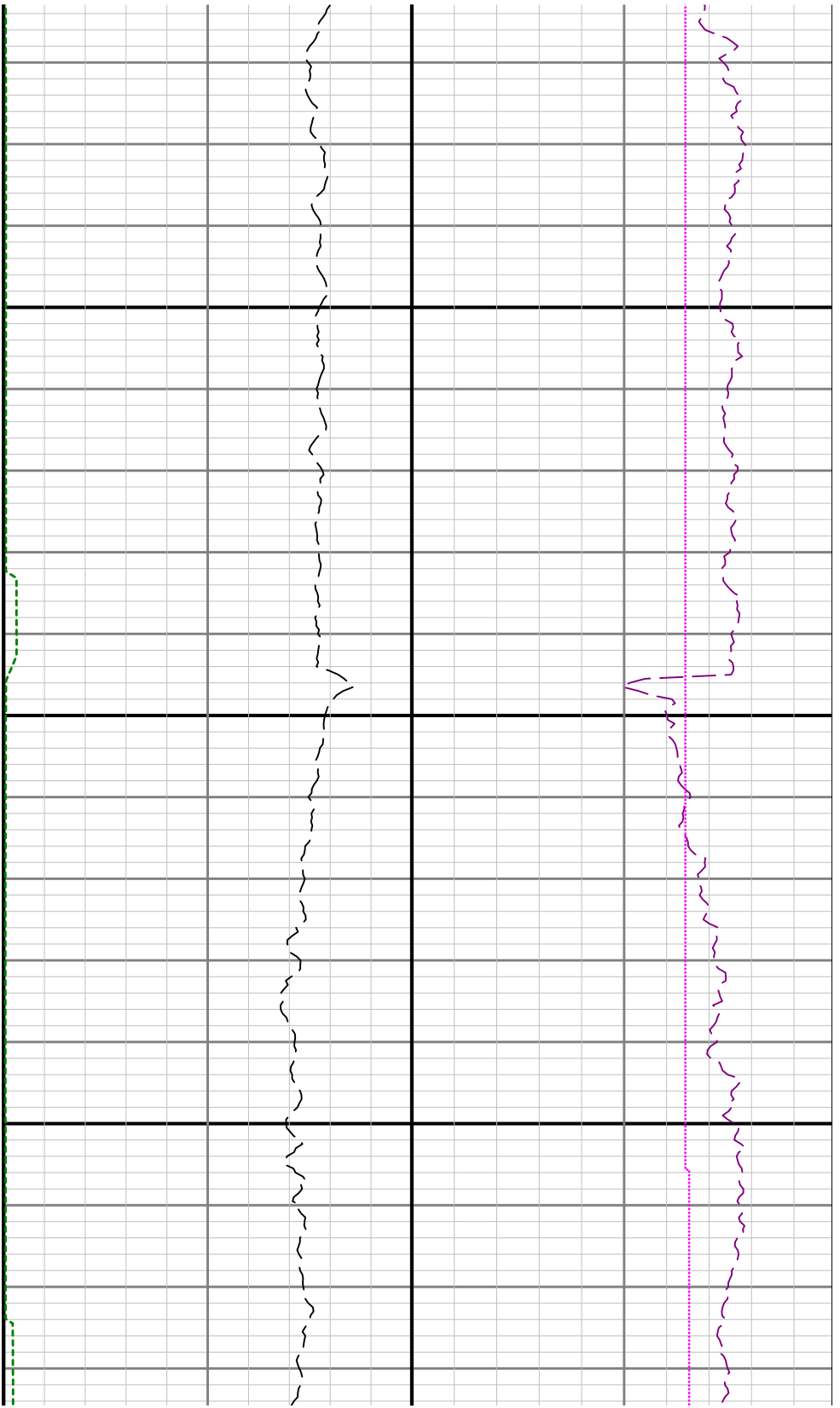


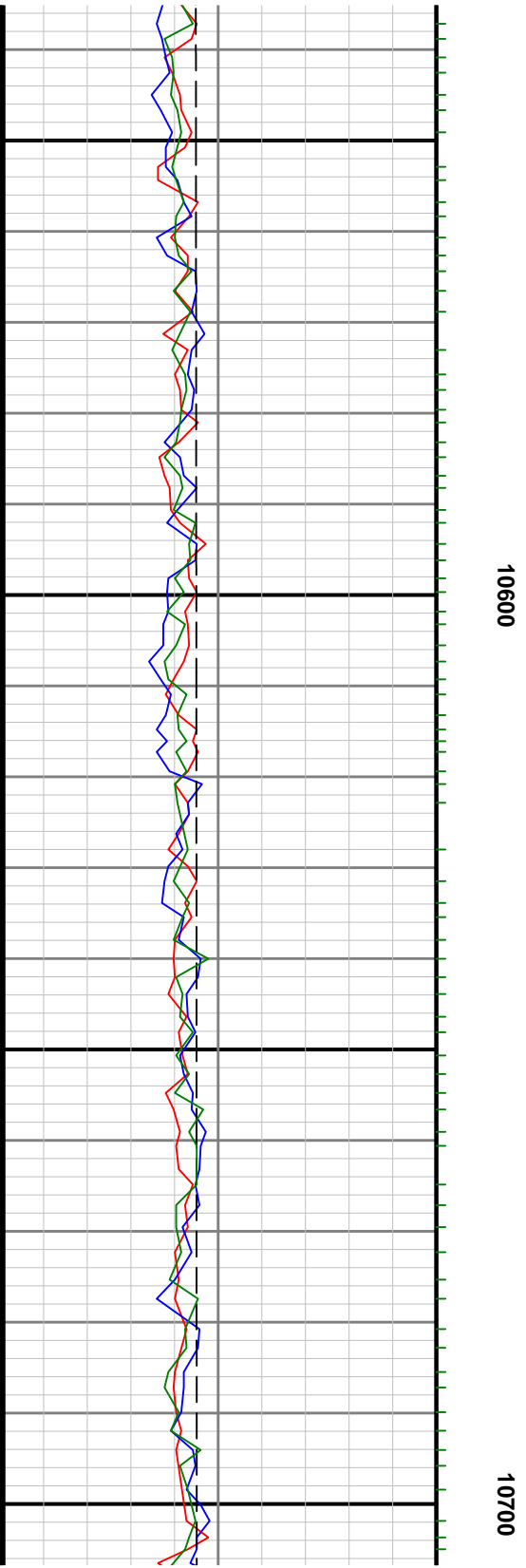


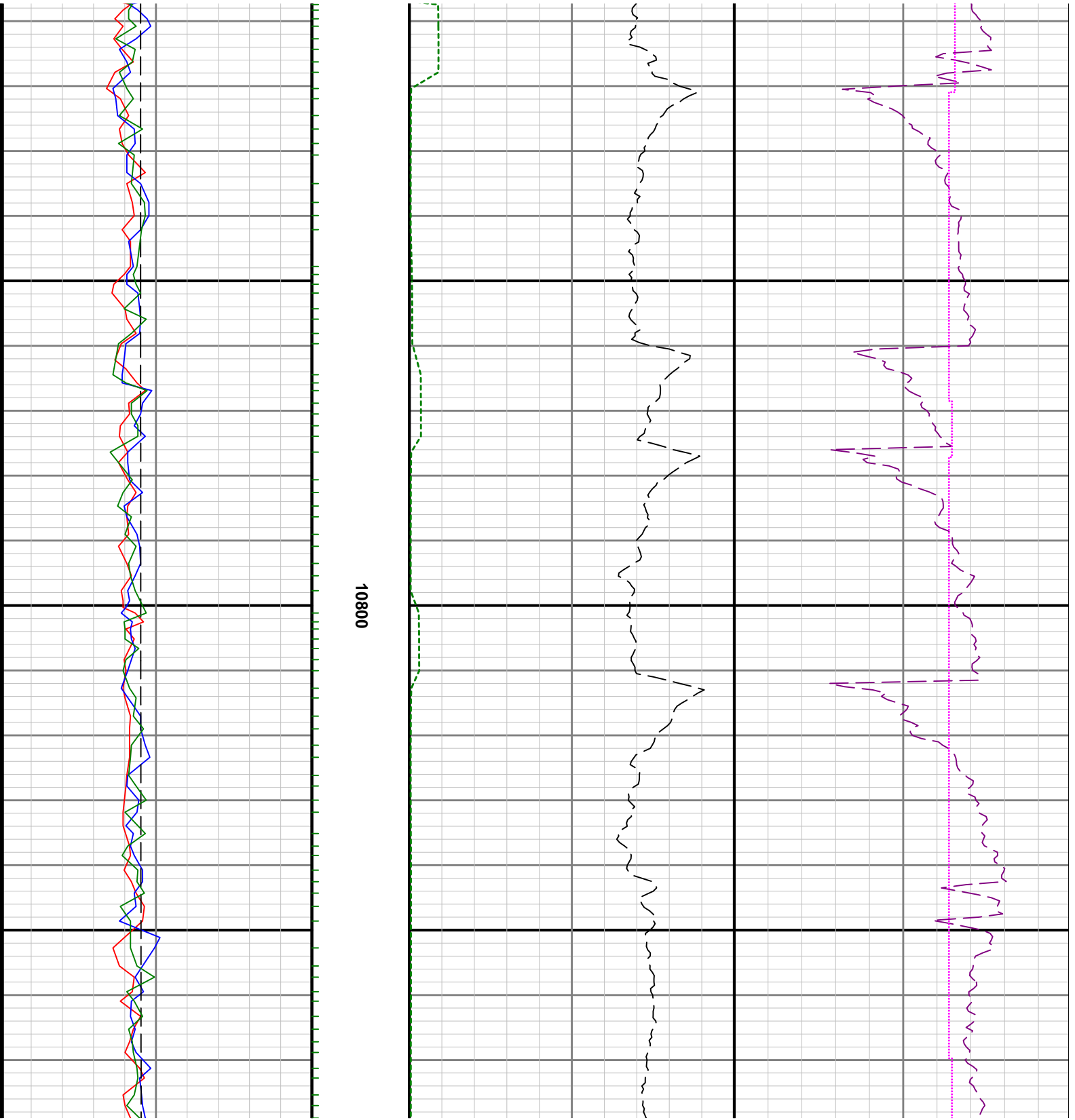


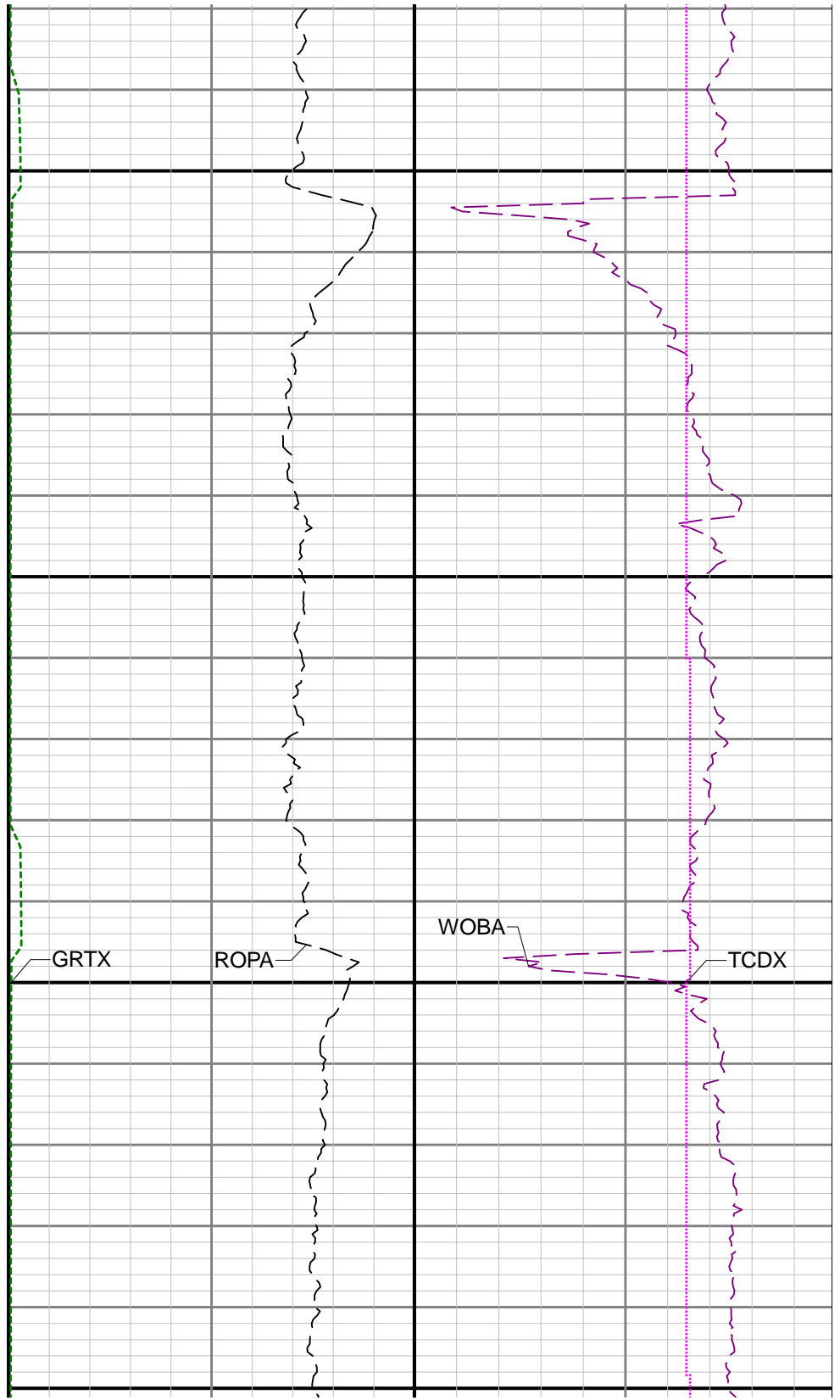
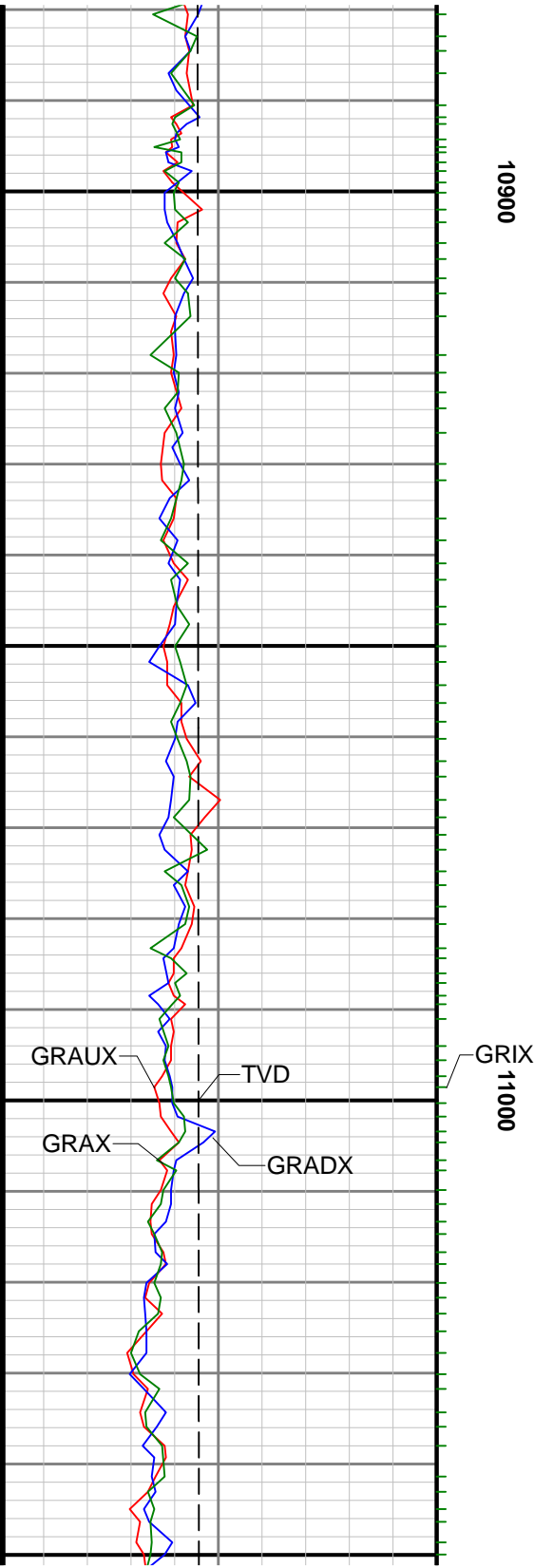


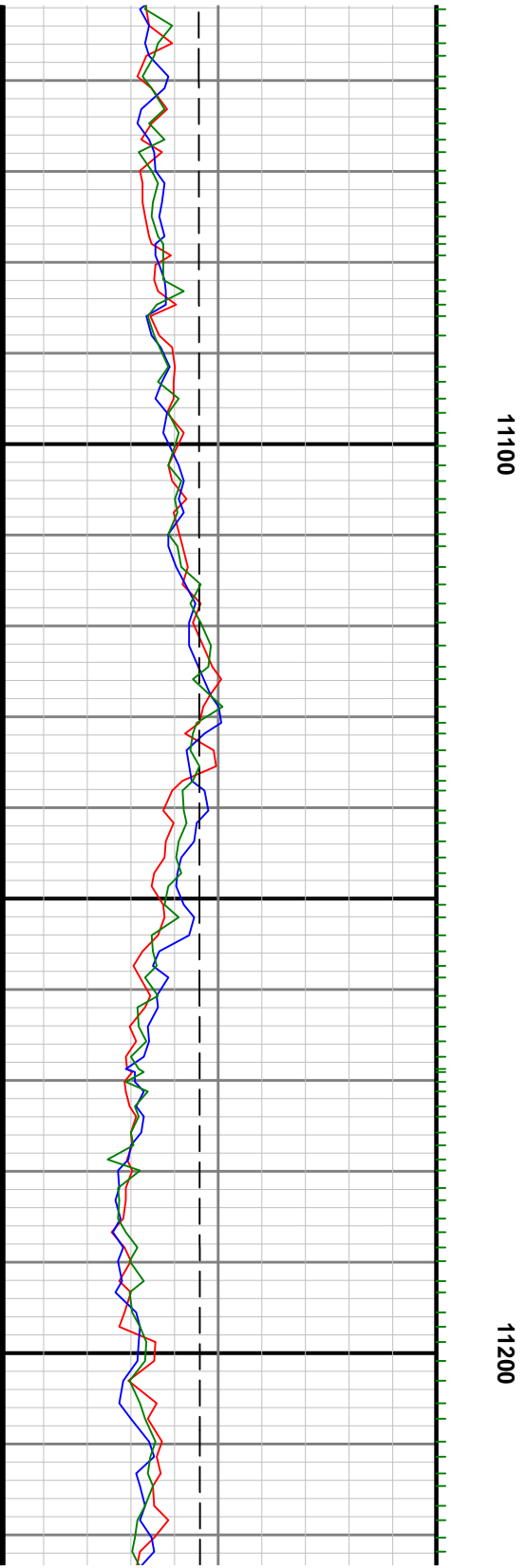
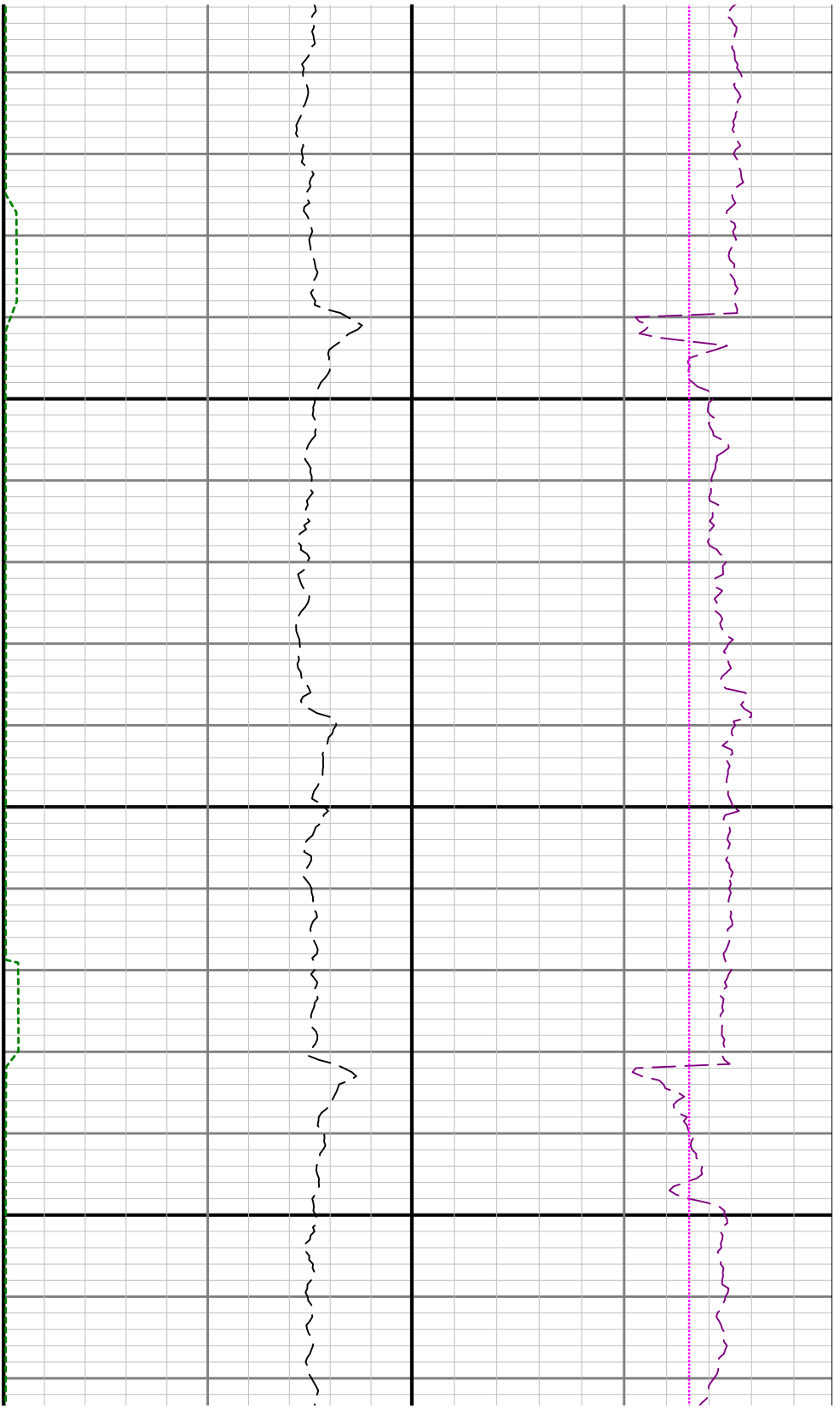


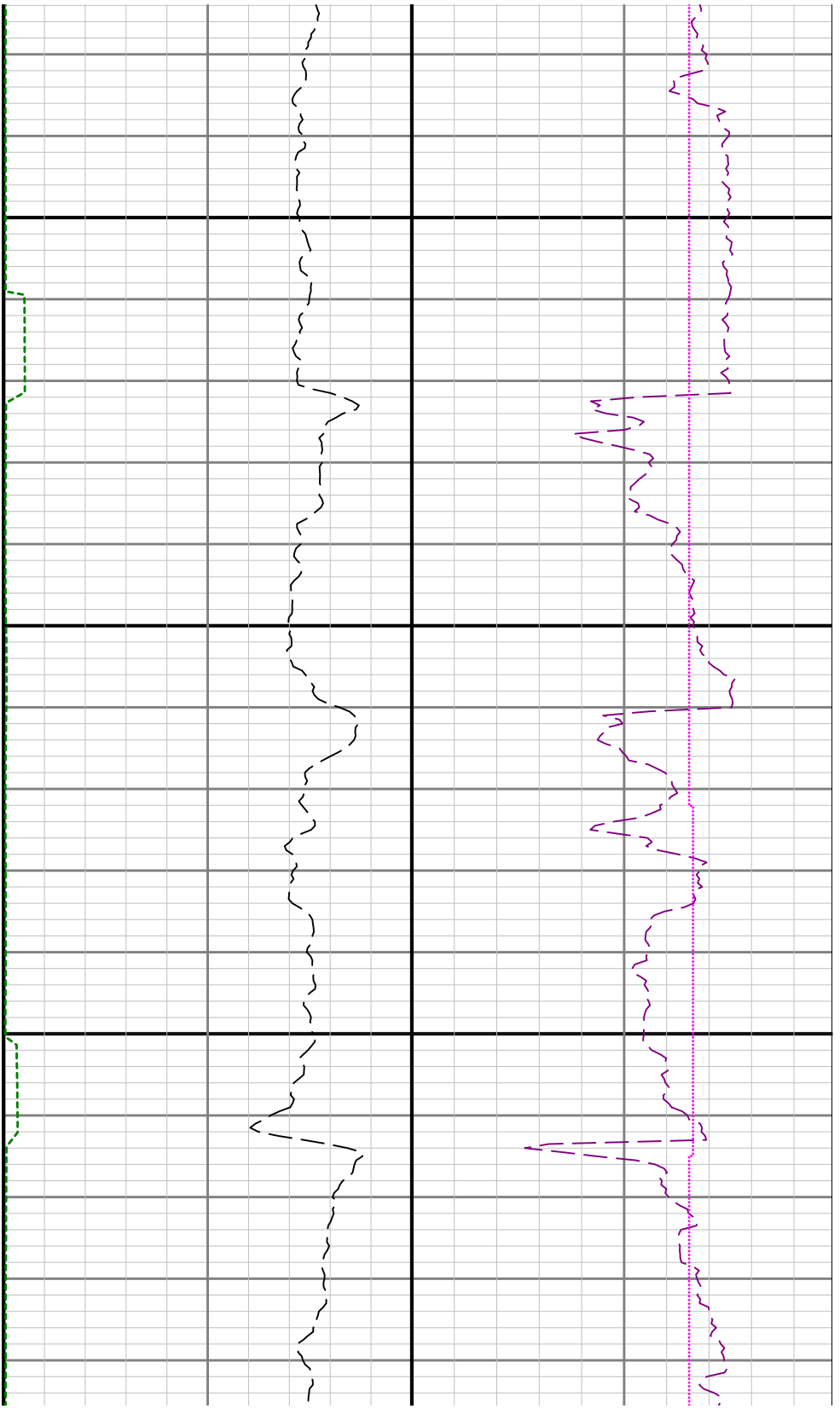












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