


LWD REALTIME LOG											
<div><div><div>BAKER HUGHES</div><div>a GE company</div></div><div></div></div>				Gamma Ray							
Scale:				Company: Great Western							
1:240 MD				Well: Postle IC 09-259HN							
Depth Reference:				Field: Wattenberg							
Driller's Depth				County: Weld				Country: United States			
State: Colorado				Other Services:							
Status: Final Print				Surface Location: Latitude: Longitude:				Directional			
API No: 616646161				SEC: 11				TWN: 3N			
Job ID: 1JULFI				RGE: 68W				Elev. KB: 68W			
Permanent Datum (P.D.): Mean Sea Level				Elevation: Above P.D.				Elev. DF: 68W			
Log Measured From: Rig Floor				Azi Reference North: True				Dip Angle: (deg) 66.71			
Dates				Interval Logged				Magnetic Field Reference			
Date From: 2018-03-10				Top: (ft) 1531.00				Total Magnetic Field Strength: (nT) 52237			
Date To: 2018-03-15				Bottom: (ft) 18357.00				Mag to Reference North Correction: (deg) 8.43 E			
Spud Date: 2018-01-19											
Borehole Record				Casing Record							
Hole Size (in)				From (ft)		To (ft)		Size (in)		Weight (lb/ft)	
13.500				20.00		1531.00		9.625		36.00	
8.500				1531.00		18370.00					


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	ATC_SU	12215165	Near Bit VSS	5.93	6.73	7.000	4.330
1	ATC_SU	12215165	Near Bit Inclination	5.93	6.73	7.000	4.330
1	ATC_MWD	14281557	Gamma (single)	2.19	12.35	7.000	3.250
1	ATC_MWD	14281557	Directional (mag)	12.26	22.42	7.000	3.250
2	ATC_SU	12215165	Near Bit VSS	5.93	6.73	7.000	4.330
2	ATC_SU	12215165	Near Bit Inclination	5.93	6.73	7.000	4.330
2	ATC_MWD	14281557	Gamma (single)	2.19	12.35	7.000	3.250
2	ATC_MWD	14281557	Directional (mag)	12.26	22.42	7.000	3.250
3	ATC_SU	14236912	Near Bit Inclination	5.93	6.93	7.000	4.330
3	ATC_SU	14236912	Near Bit VSS	5.93	6.93	7.000	4.330
3	ATC_MWD	12599902	Gamma (single)	2.20	12.55	7.000	3.250
3	ATC_MWD	12599902	Directional (mag)	12.27	22.62	7.000	3.250

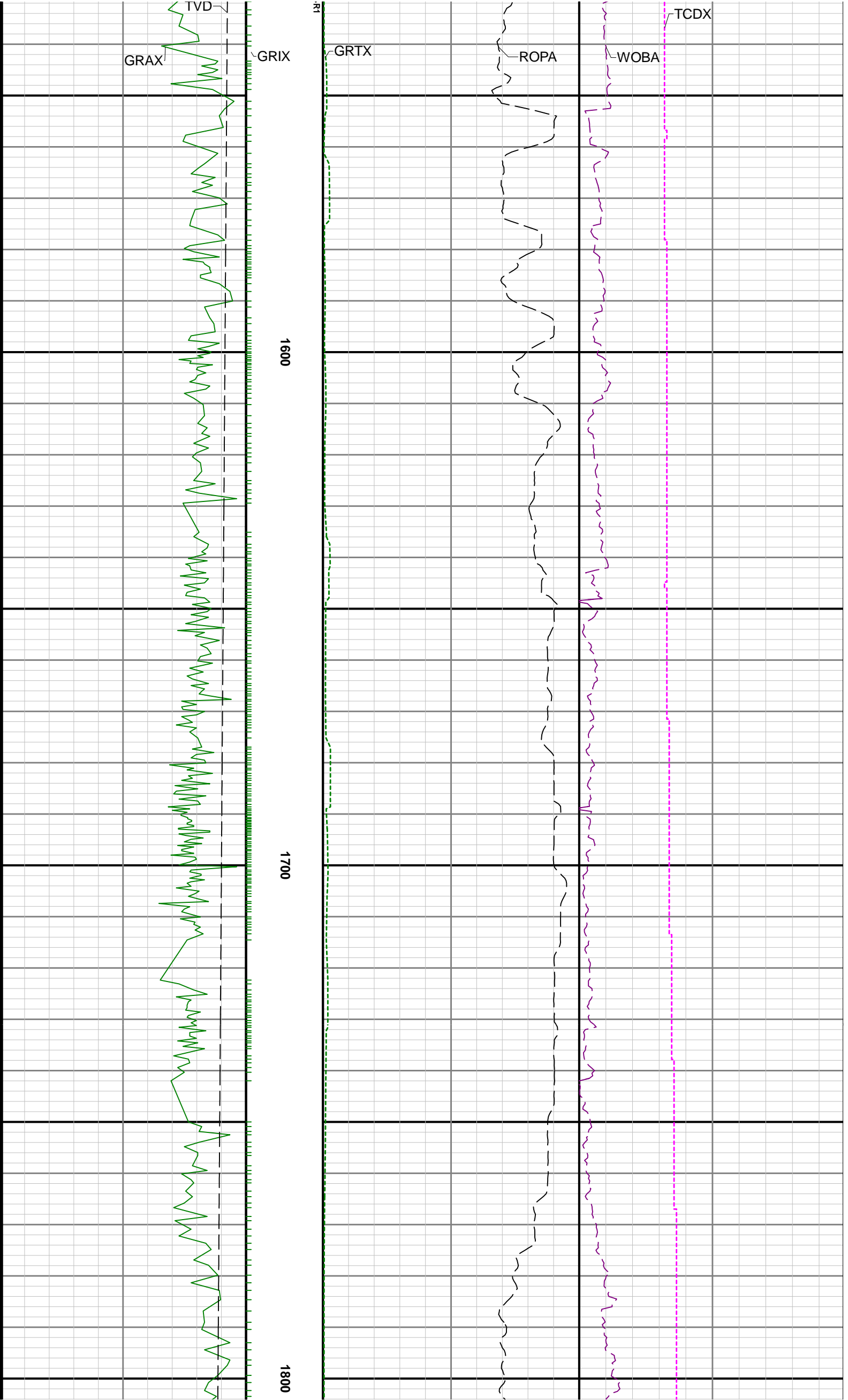
Service and Tool Mnemonics		
Mnemonic	Name	Description
ATC_SU	ATC_SU	Auto Trak Curve Steering Unit
ATC_MWD	ATC_MWD	Auto Trak Curve MWD
ATC_LCPM	ATC_LCPM	Auto Trak Curve LCPM

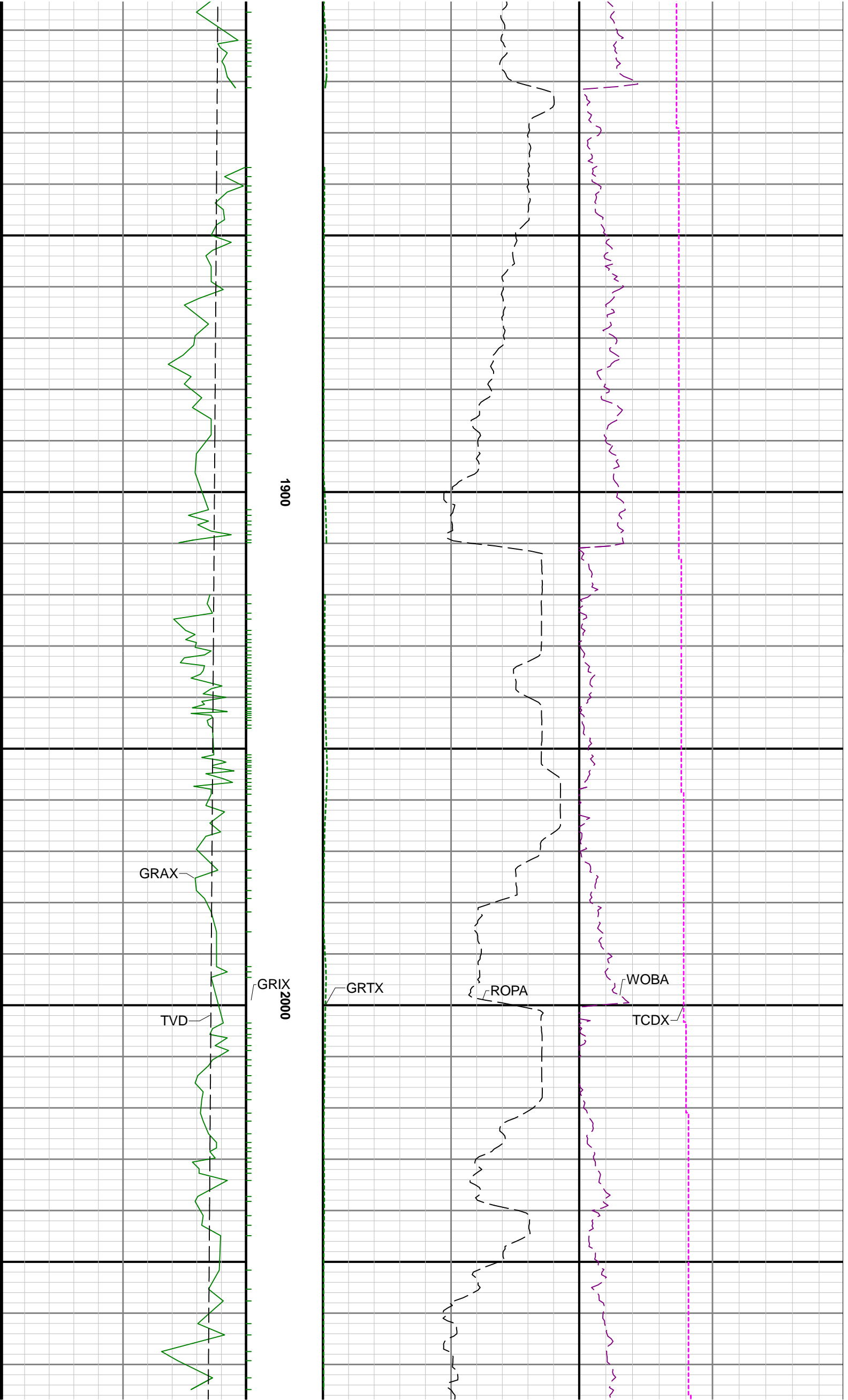
Comments	
1	Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
2	Correlation of depth measurements from 1531 to 18370 feet MD (1530 to 7009 feet TVD).
3	Gaps in Gamma Ray data are present throughout the log due to downlinking while drilling ahead.

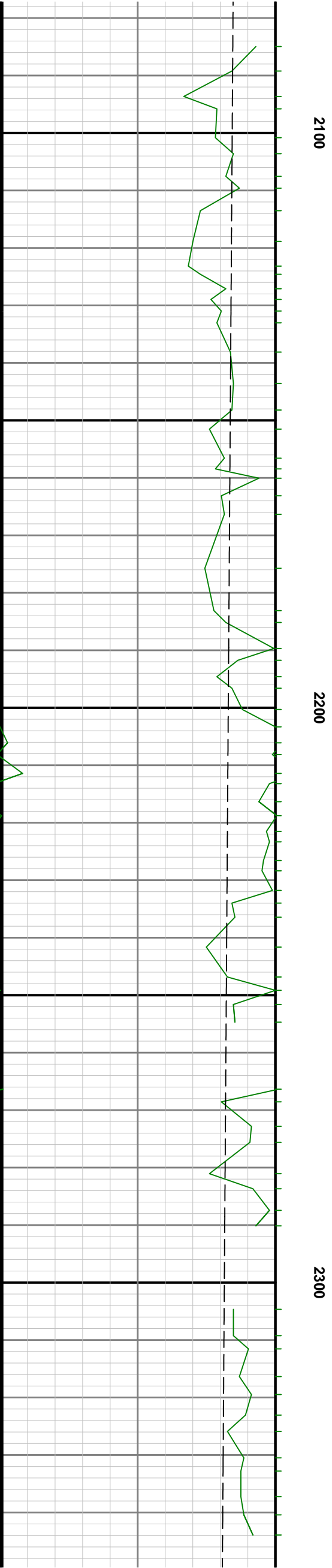
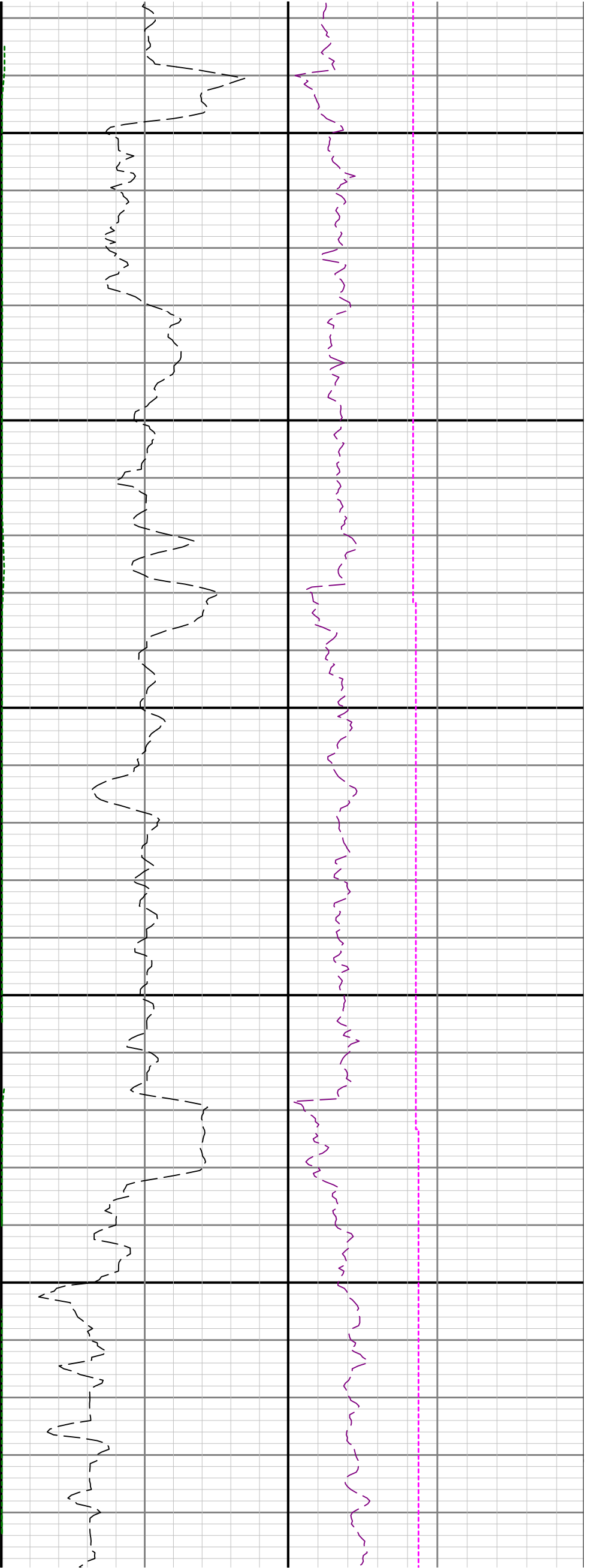
Remarks				
Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	5565.00	8.500	1	The interval from 5564 to 5580 feet MD (5375 to 5389 feet TVD) was logged up to 6 hours after being drilled due to a trip out of hole to change out Motor and Bit.
2	10925.00	8.500	2	The interval from to 10923 to 10938 feet MD (7138 feet TVD) was logged up to 12.25 hours after being drilled due to a trip out of hole to change out ATC and Bit.
3	18350.00	8.500	3	The interval from 18357 to 18370 feet MD (7009 feet TVD) was not logged due to sensor to bit offset at well TD

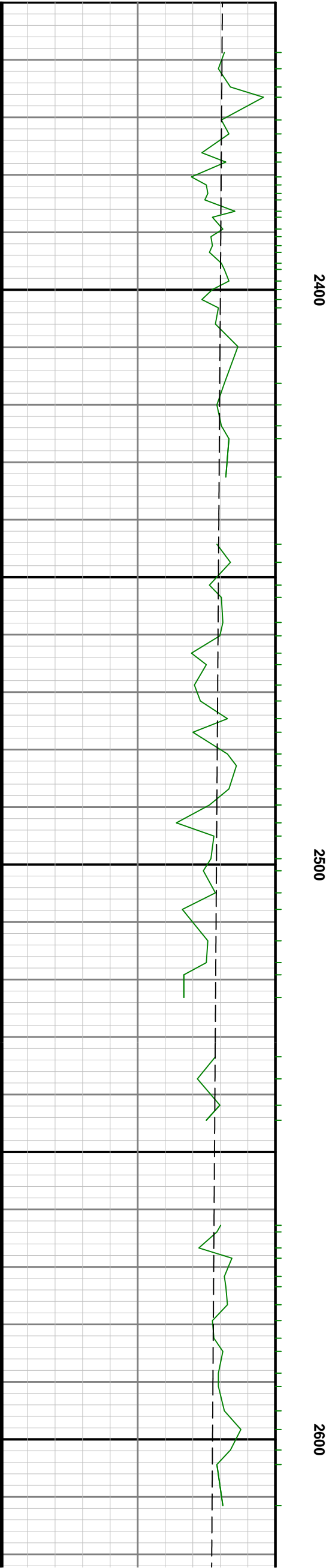
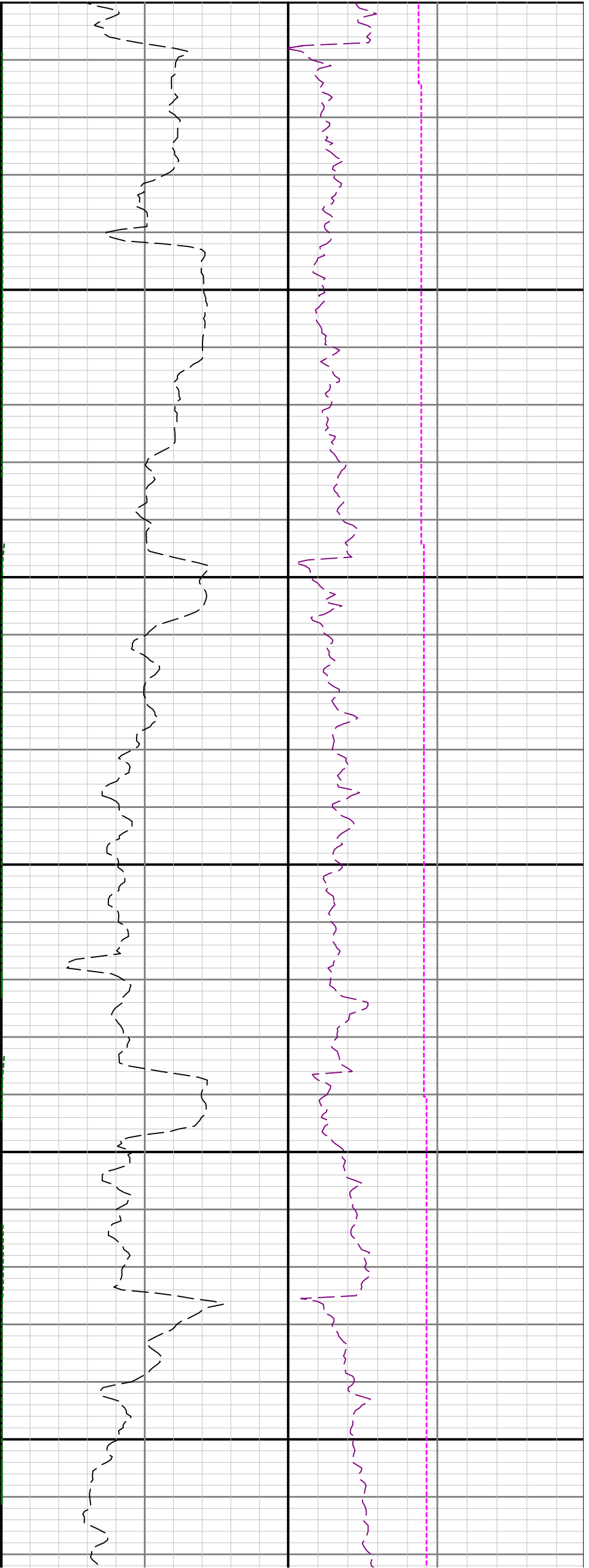
Curve Mnemonics		
Presented Curves	Description	Units
TCDX	Downhole Temperature	degF
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAX	Gamma Ray - Apparent - Real-Time 0.5 ft Average	API
GRIX	Gamma Ray - Data Point Indicator - Real-Time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

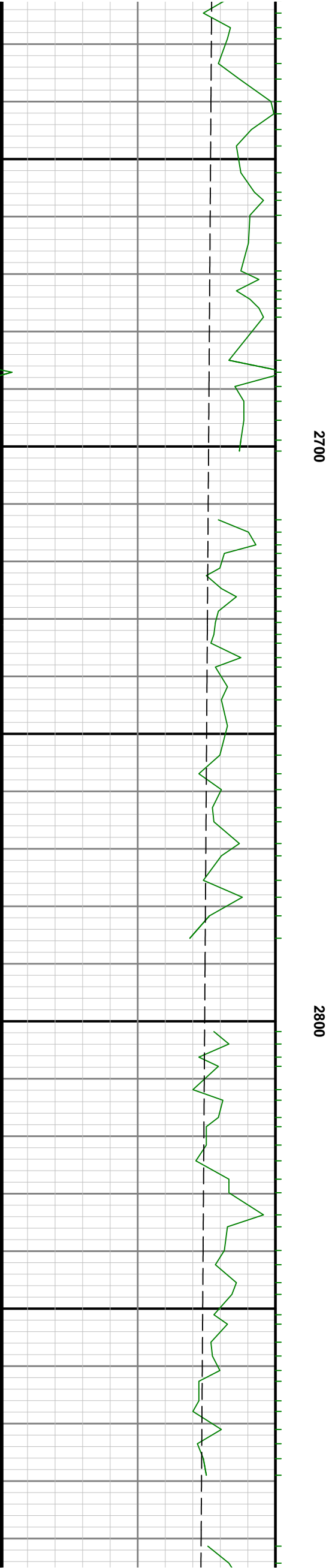
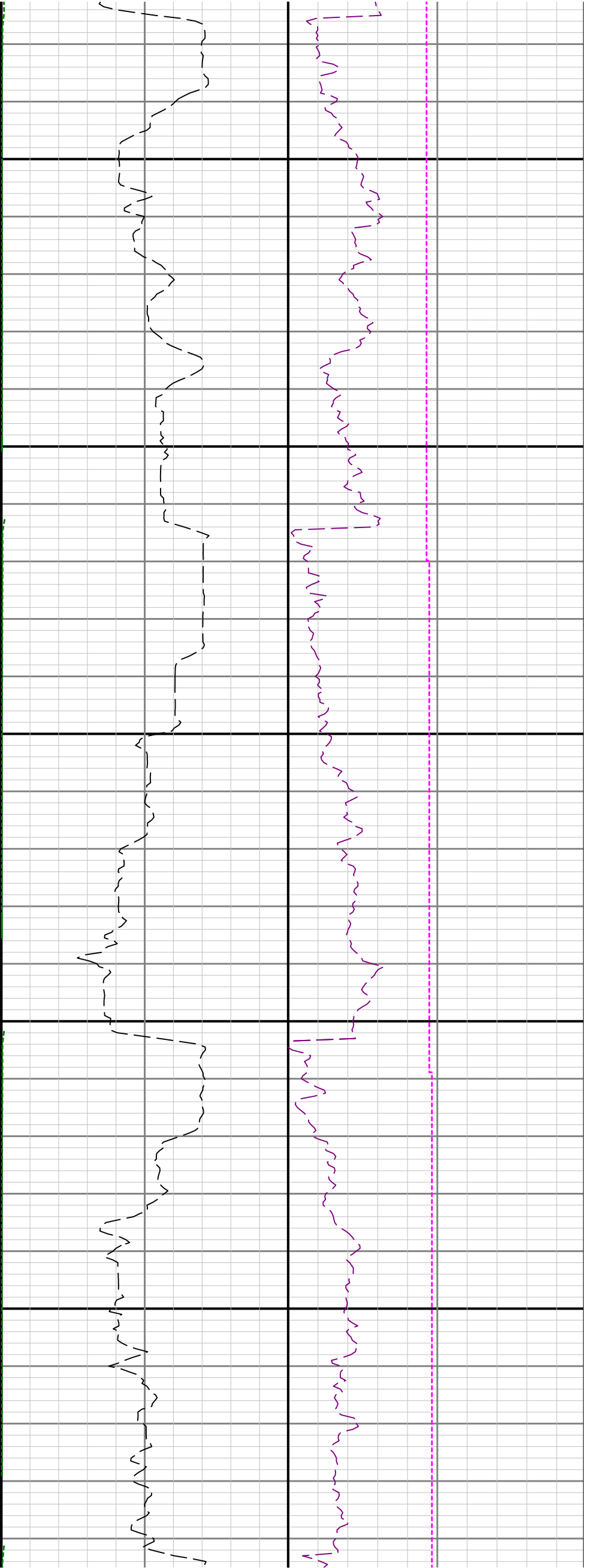
	Company	Great Western		
	Well	Postle IC 09-259HN		
	Interval	Date From: 2018-03-10 12:49:00	Top: 1531.00	
		Date To: 2018-03-15 11:37:00	Bottom: 18370.00	
	Created	2018-03-15 12:57:29		
Gamma Ray - Apparent 0.5 ft Average GRAX 0 150 API True Vertical Depth TVD 8000 1000 ft	MD 1:240 feet	Depth Averaged ROP 3 ft Average ROPA 1000 0 ft/h Gamma Time Since Drilled GRTX 0 600 min	Weight On Bit, Average 1 ft Average WOBA 0 100 klb Downhole Temperature TCDX 0 300 degF	
	9 5/8" Casing			

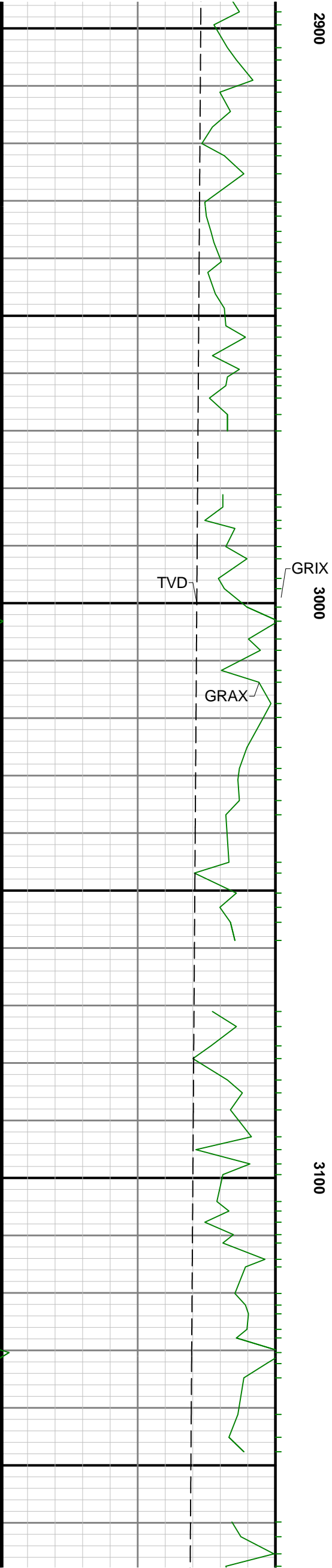
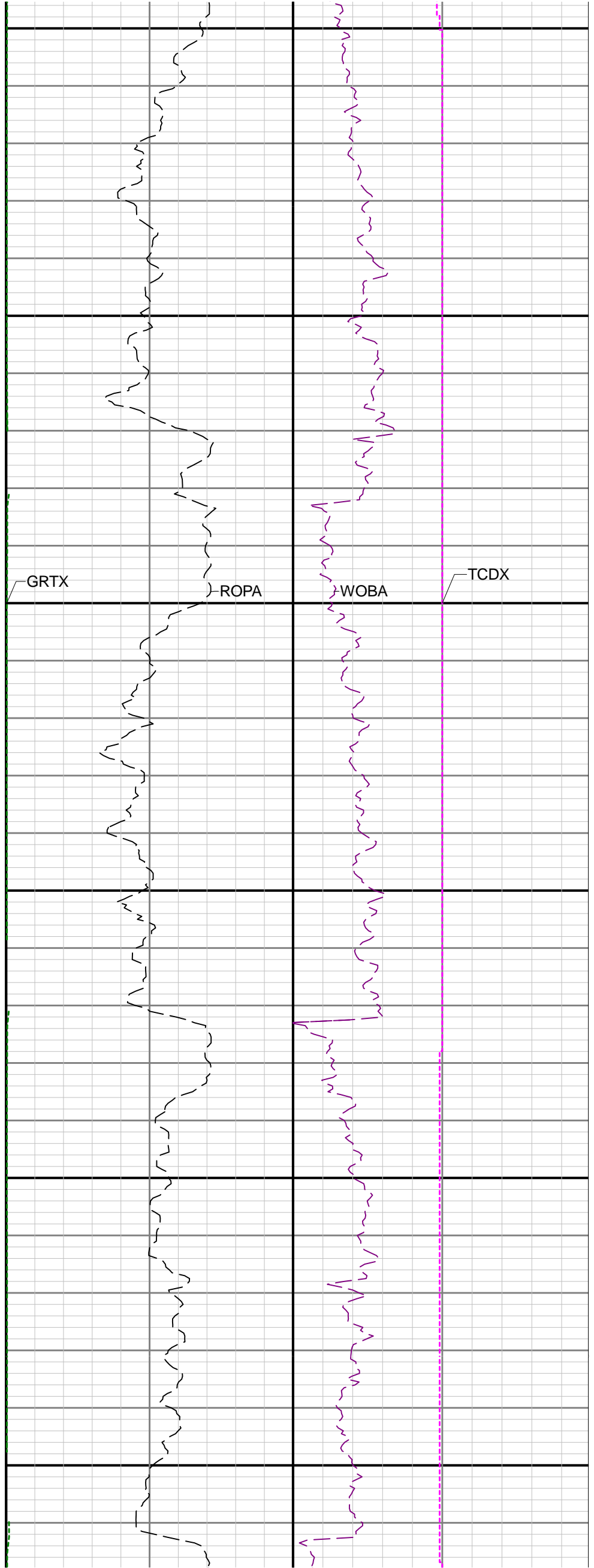


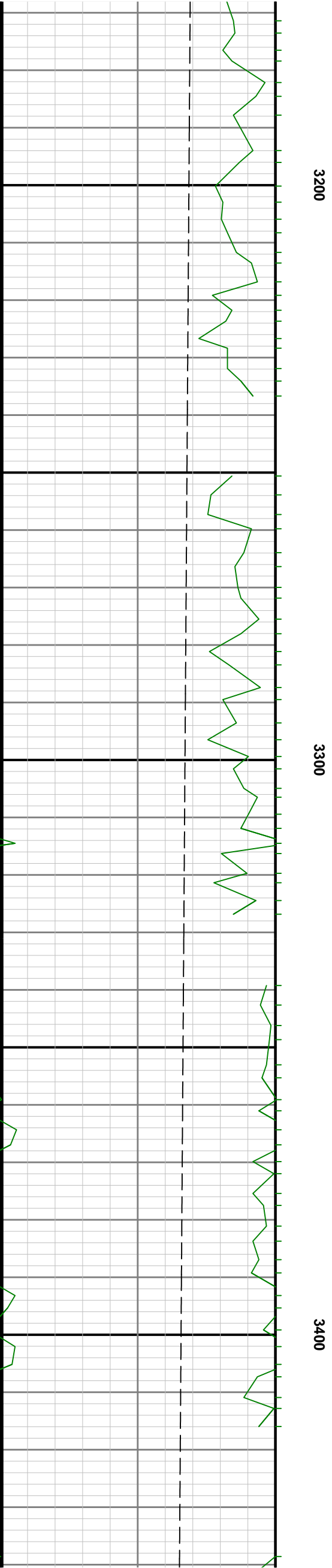
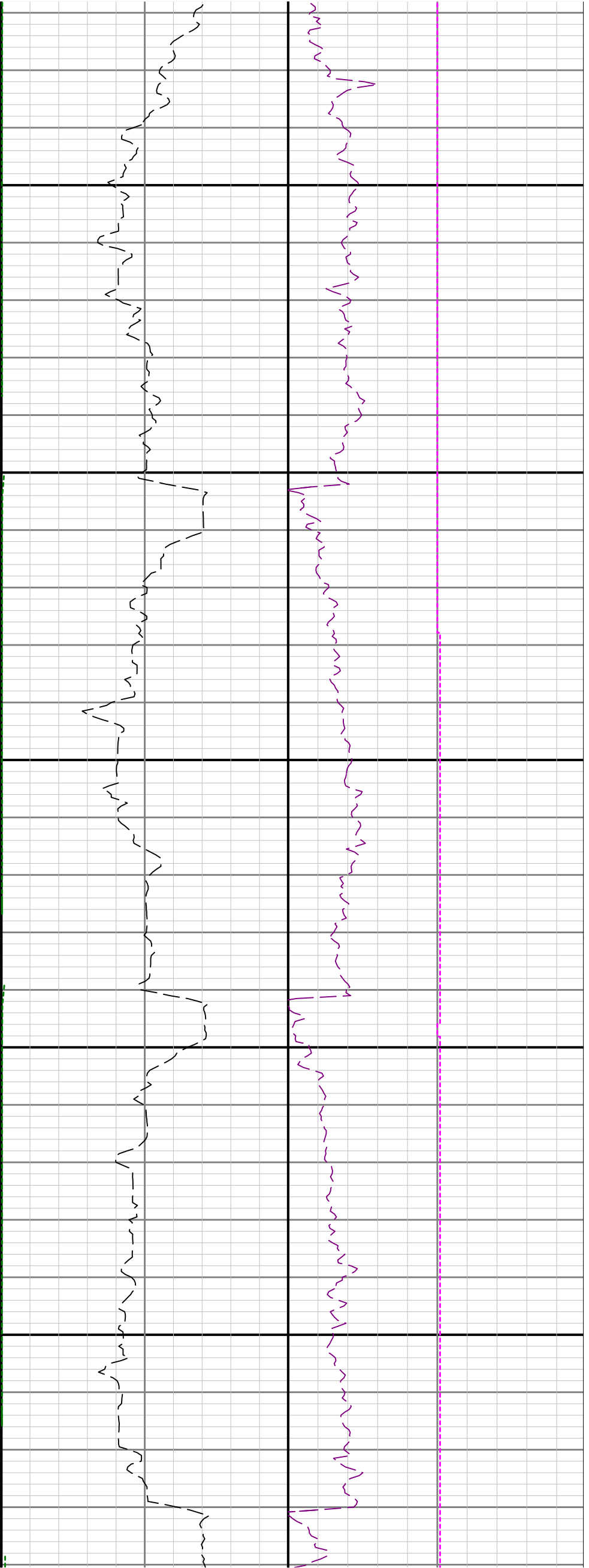


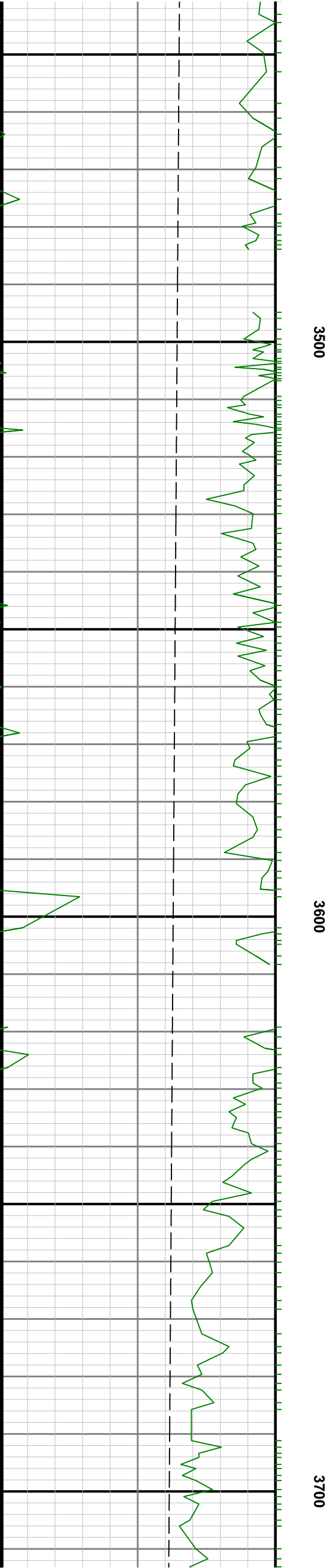
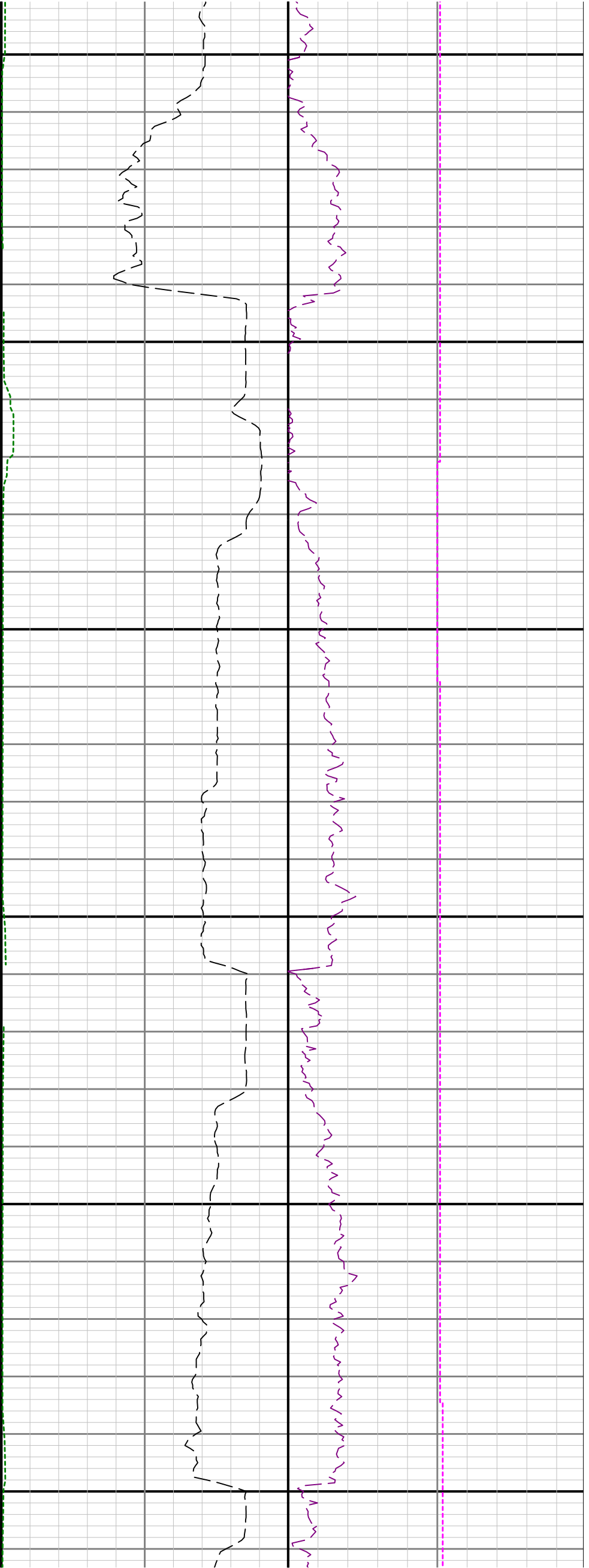


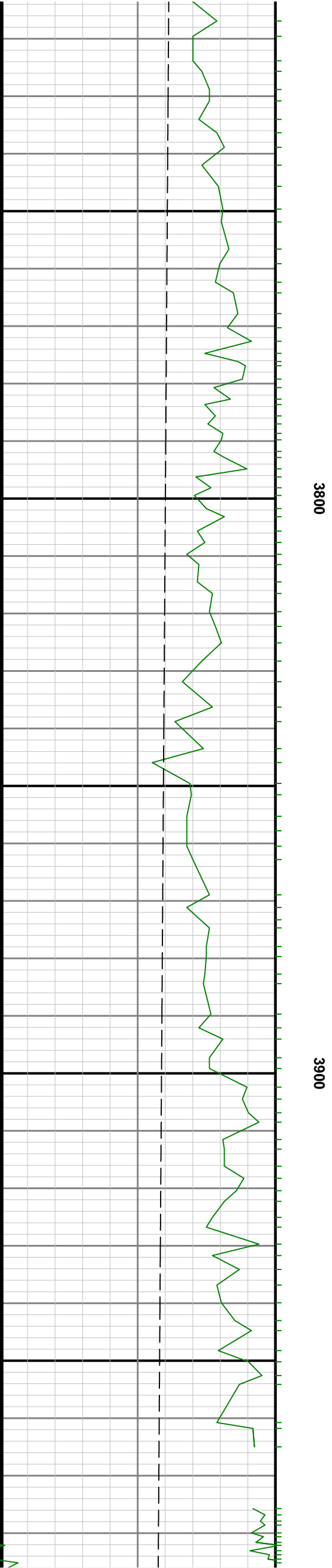
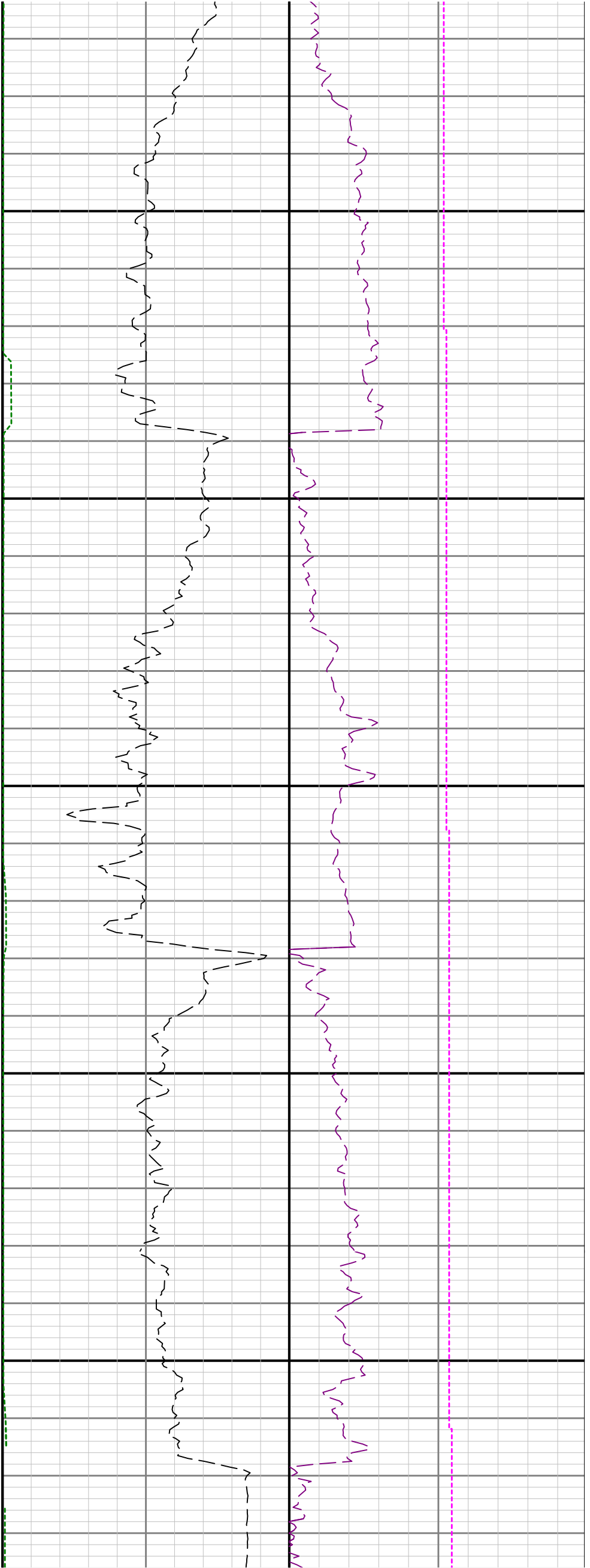


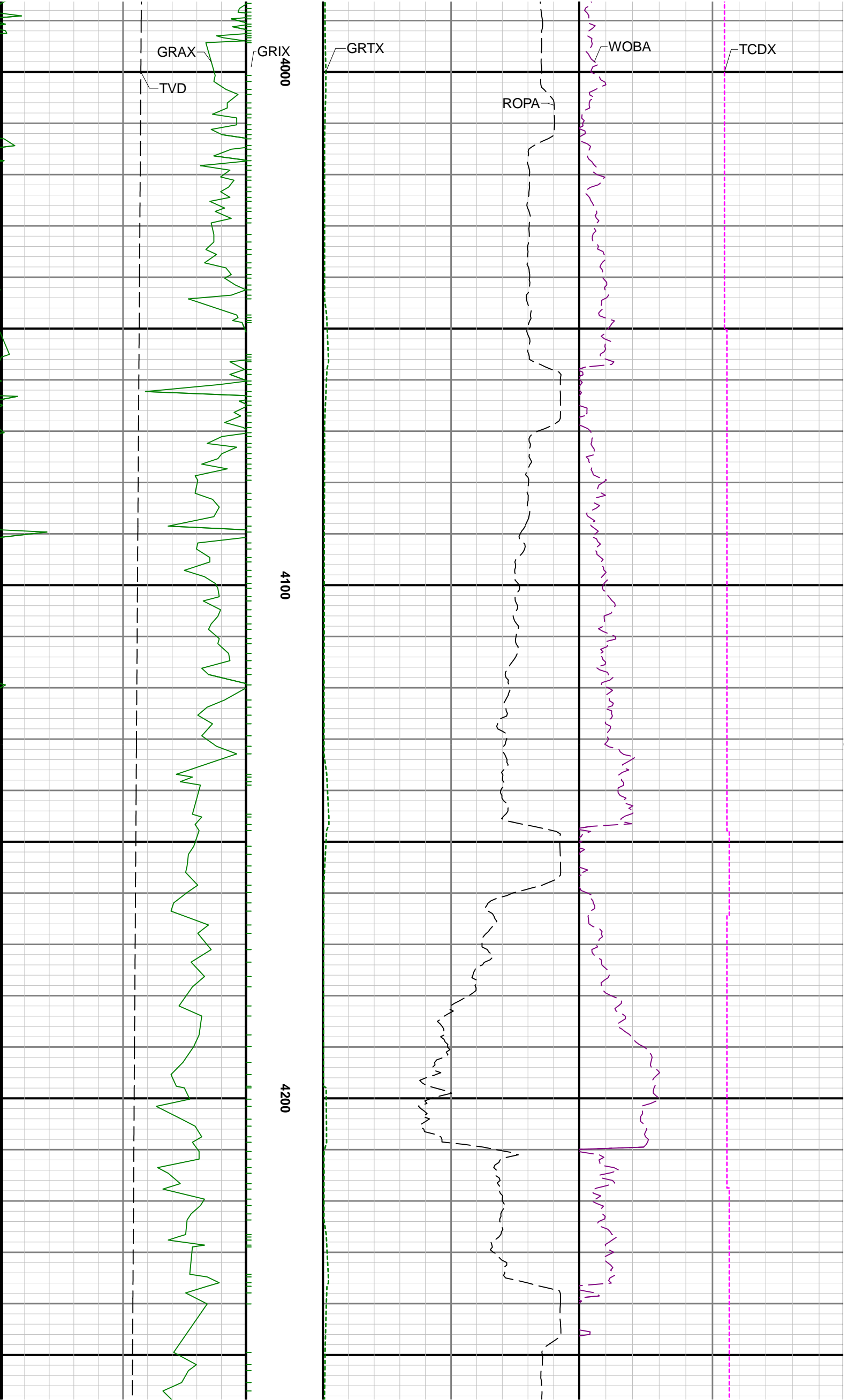


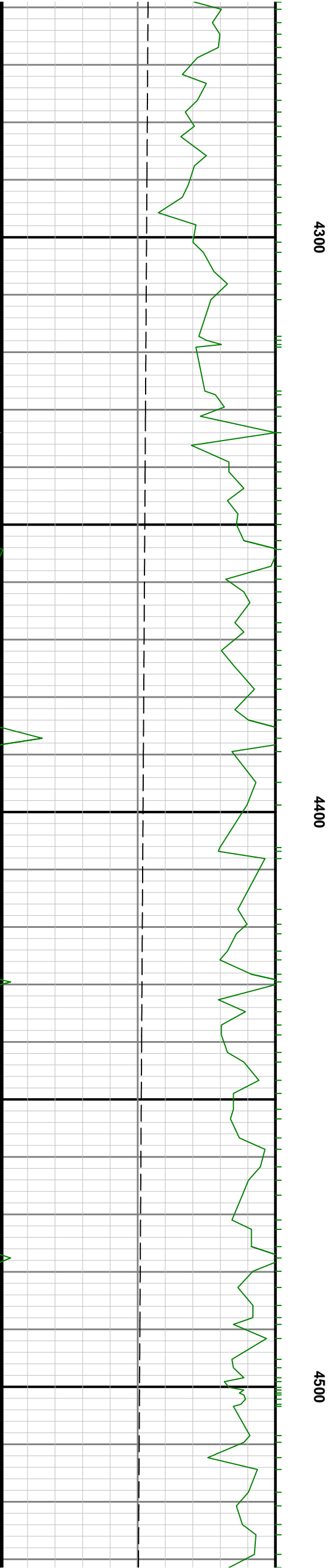
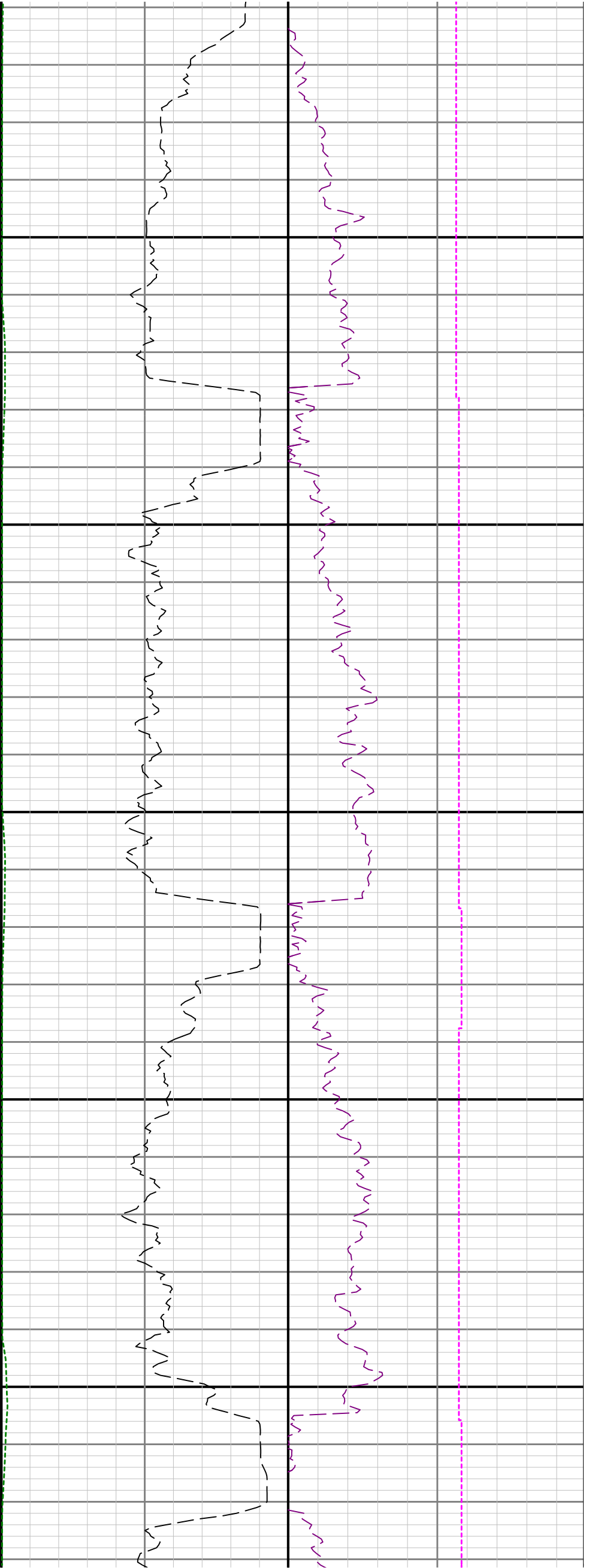


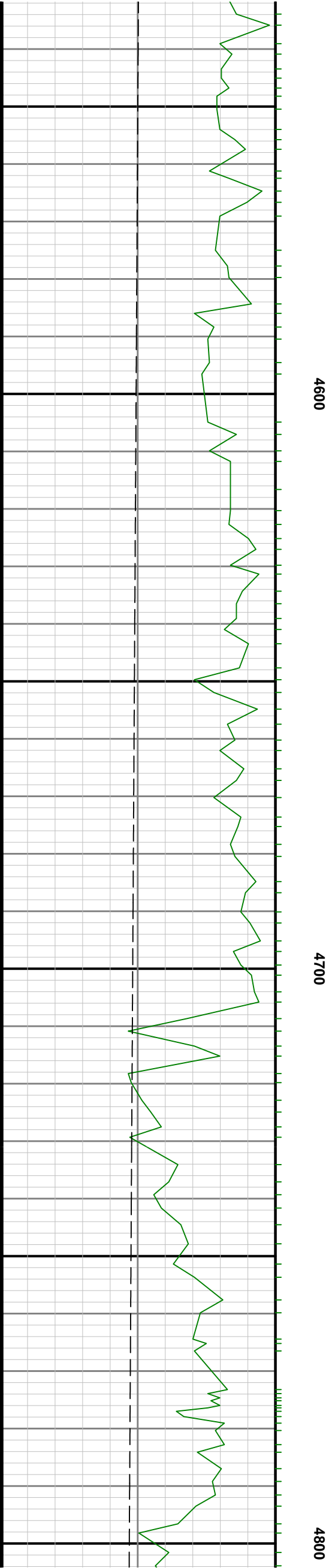
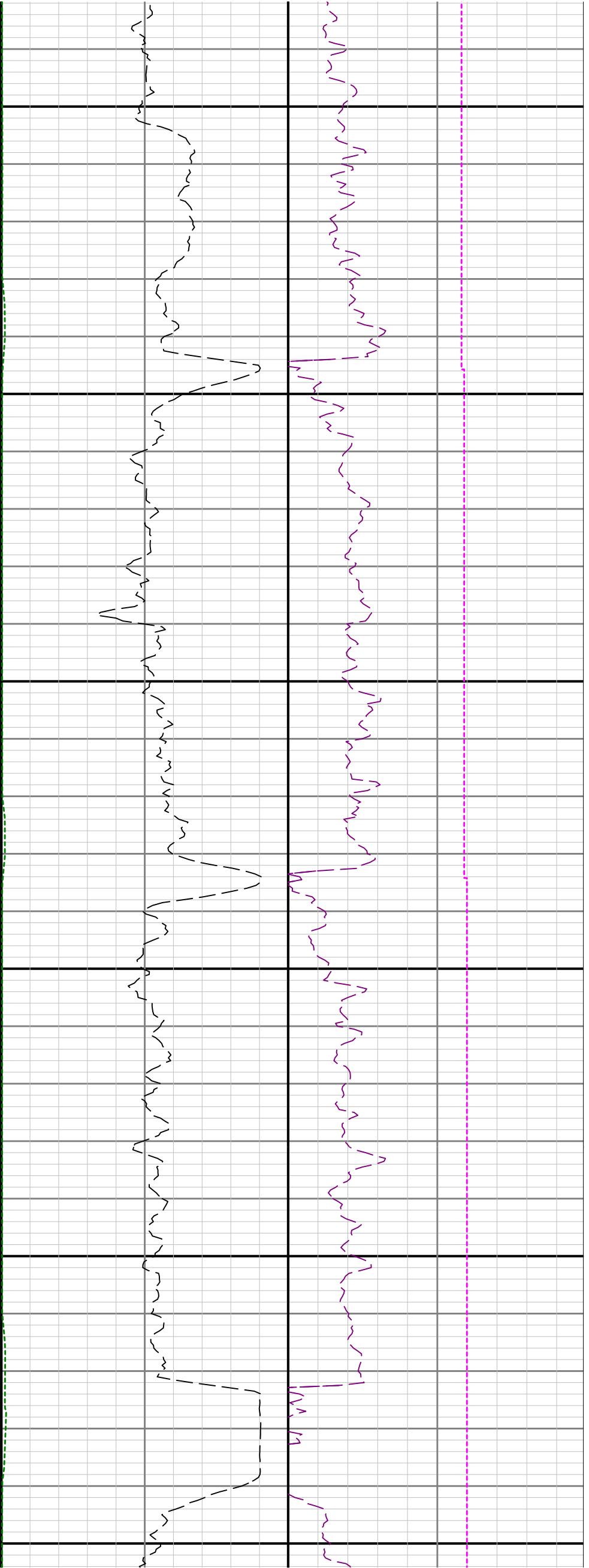


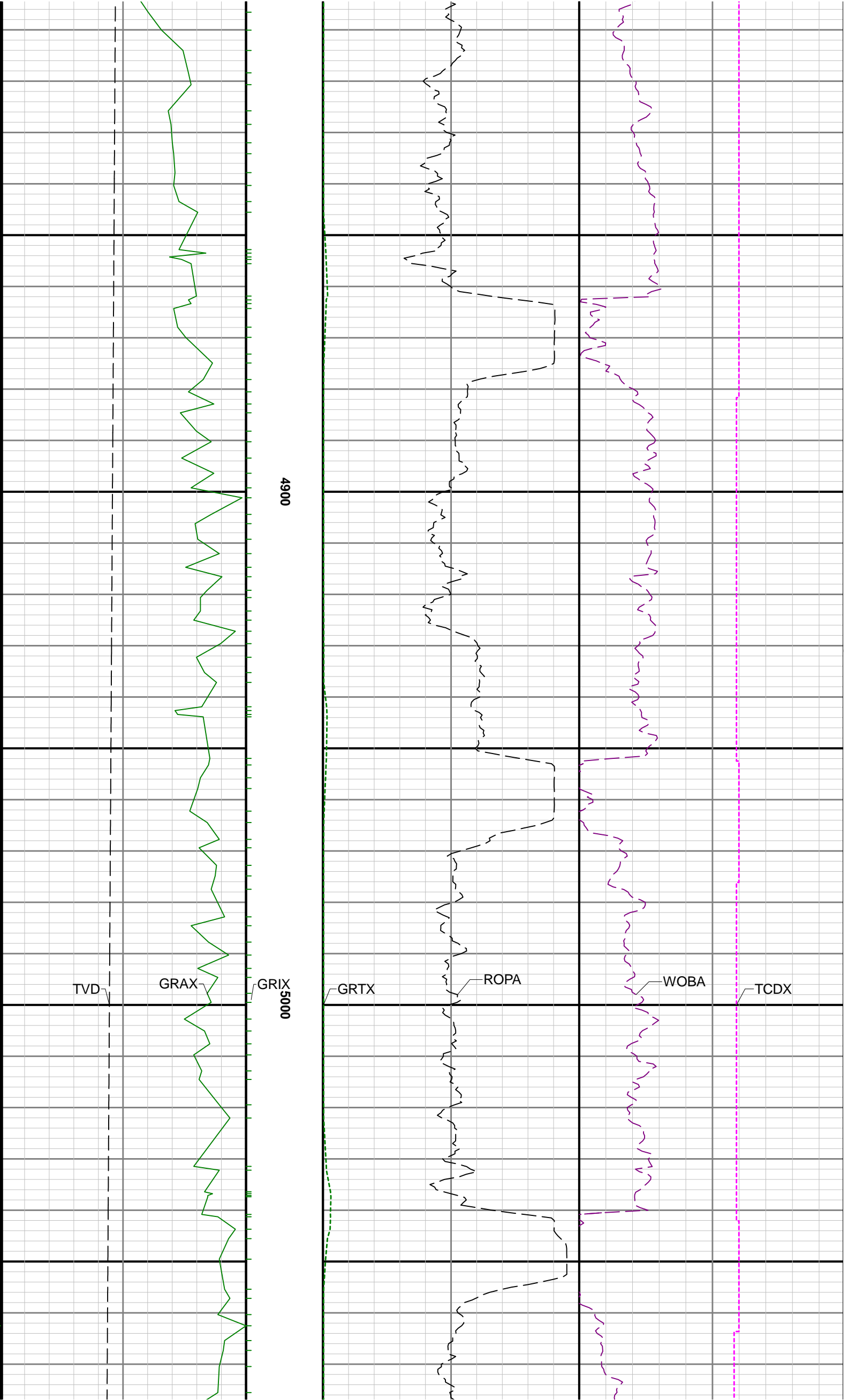


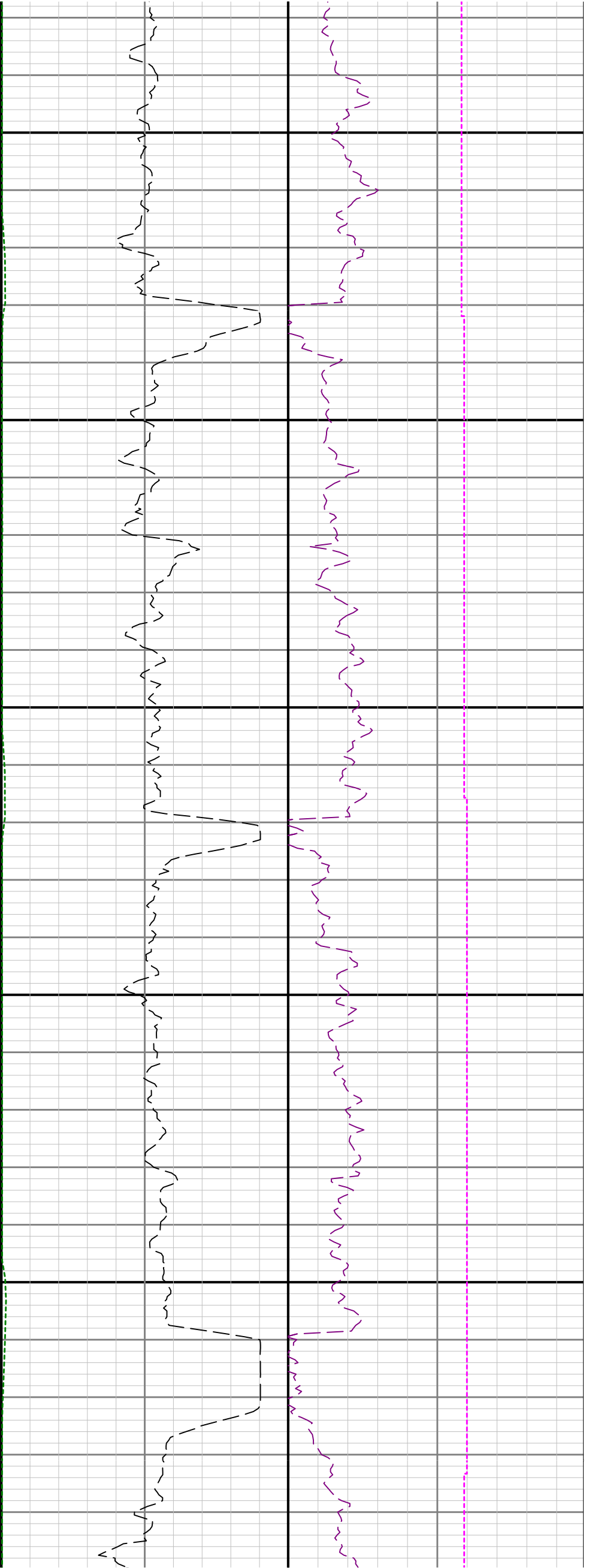








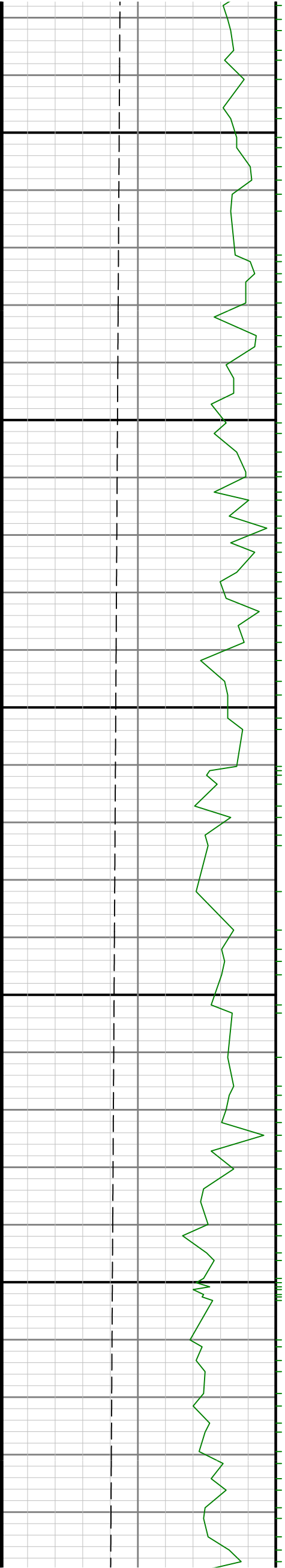


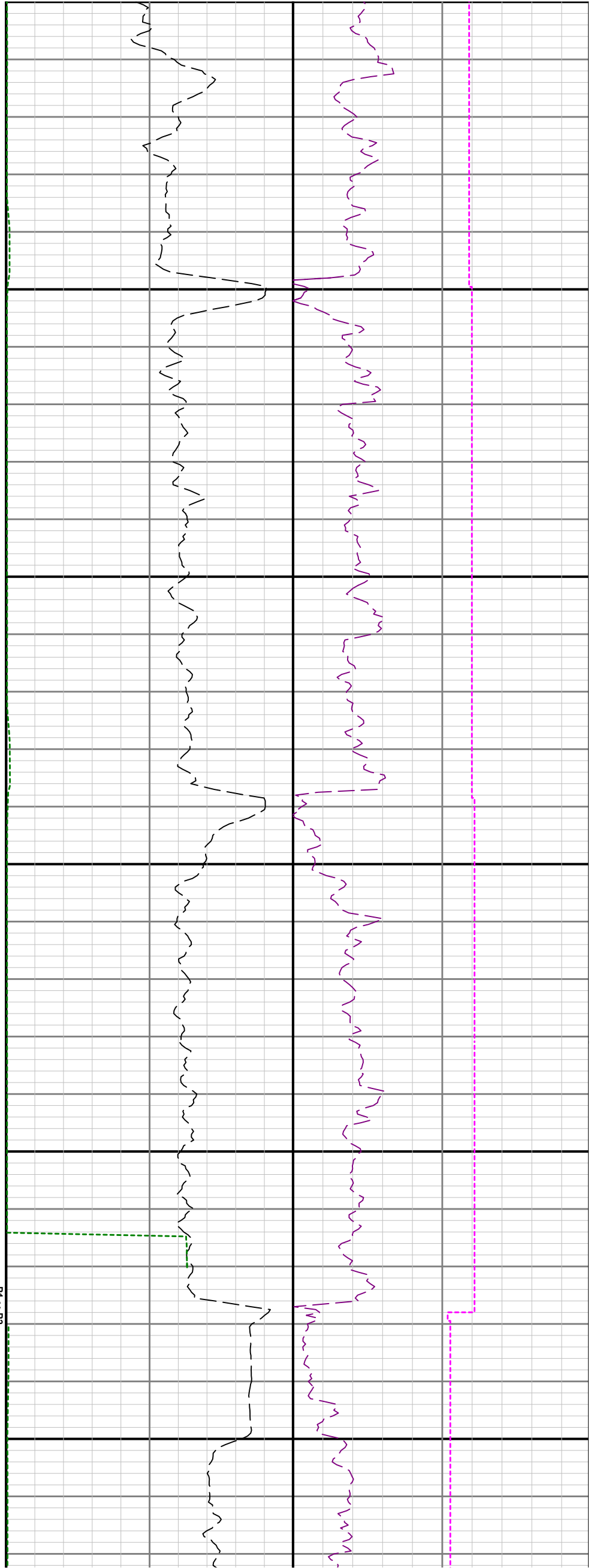


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5300





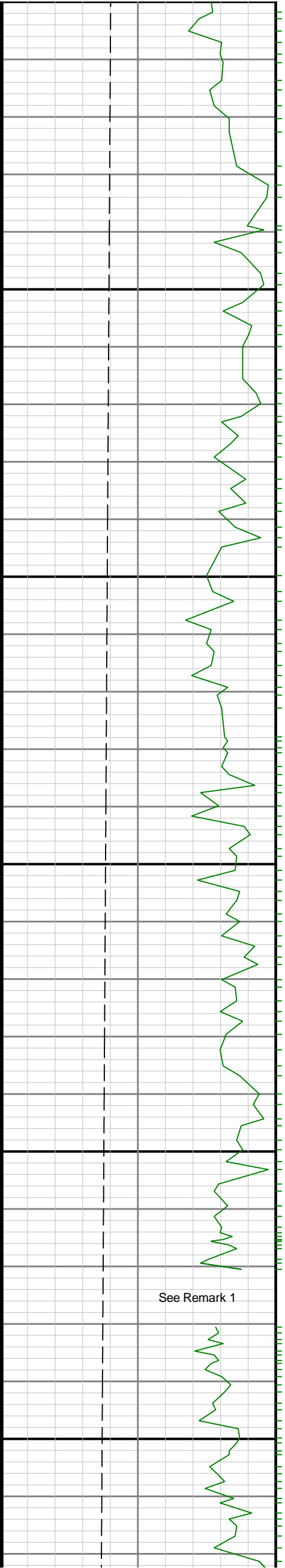
R1 < R2

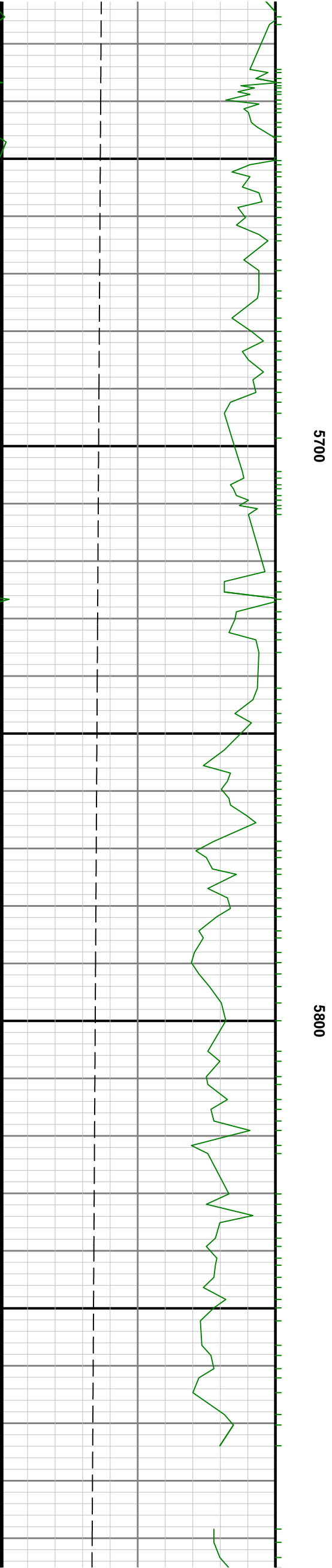
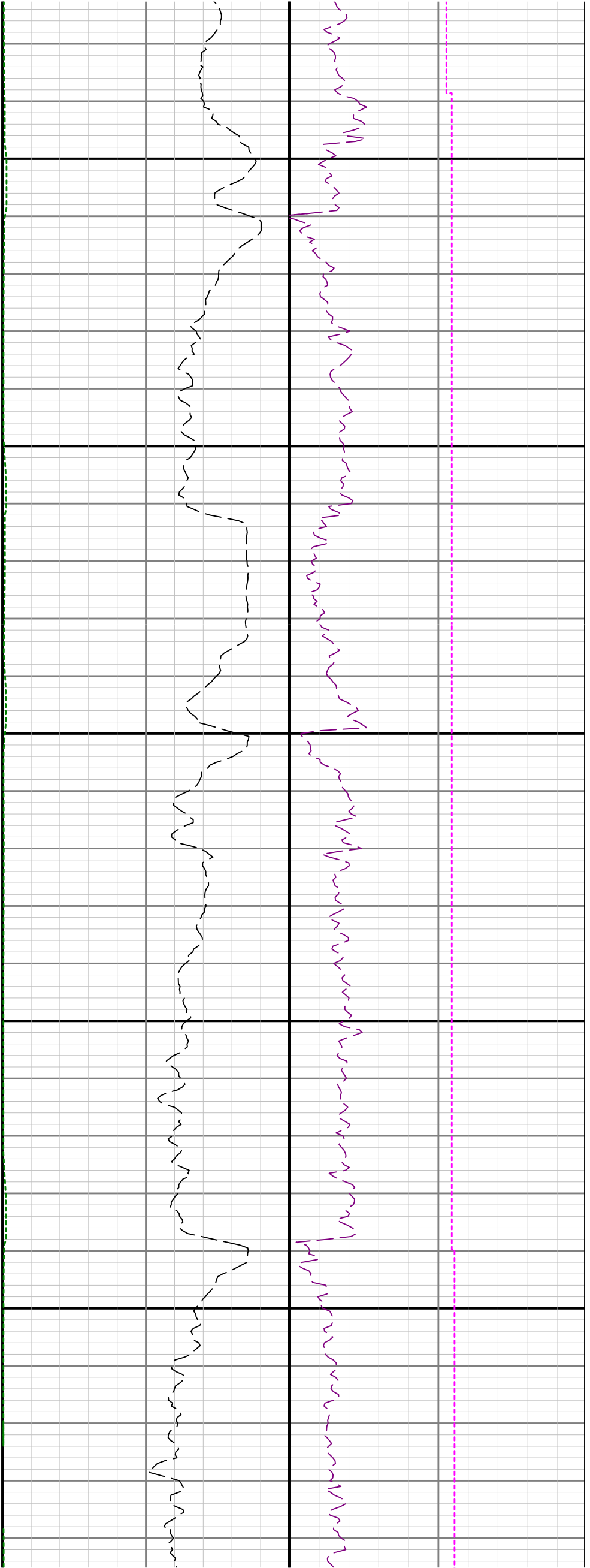
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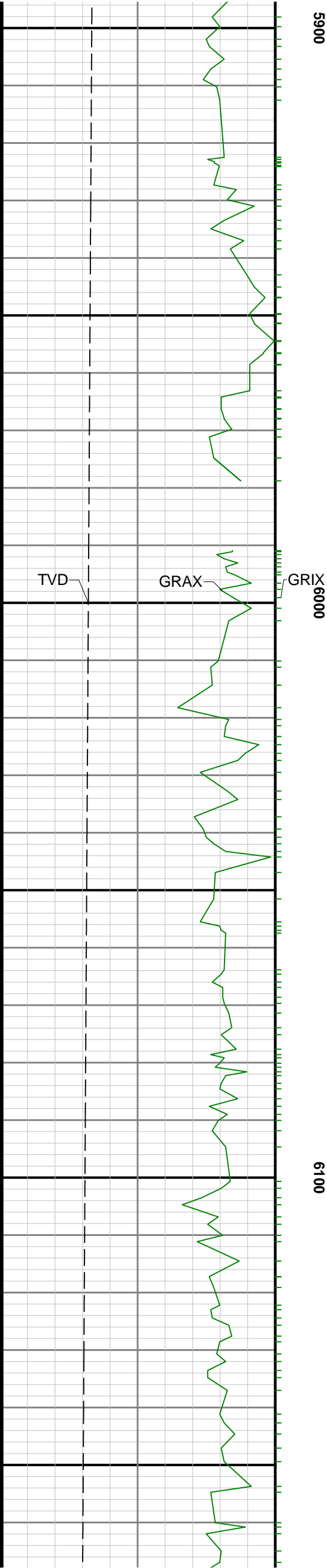
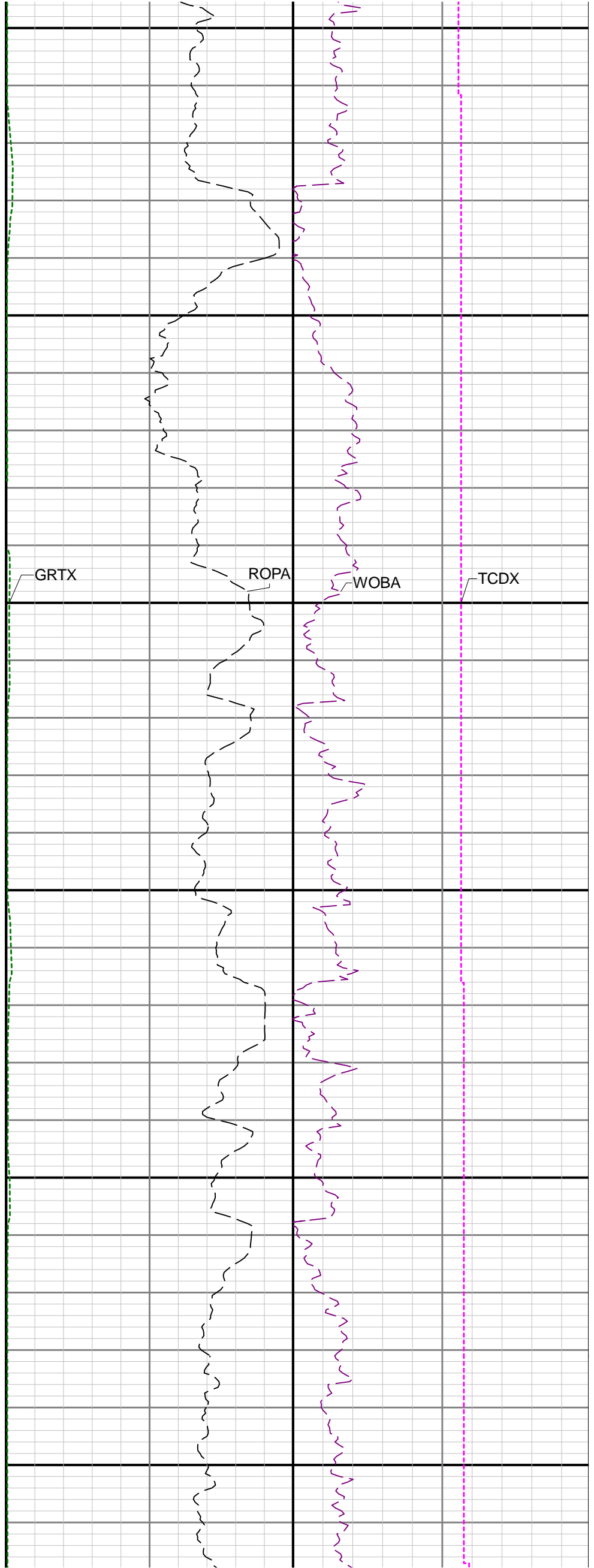
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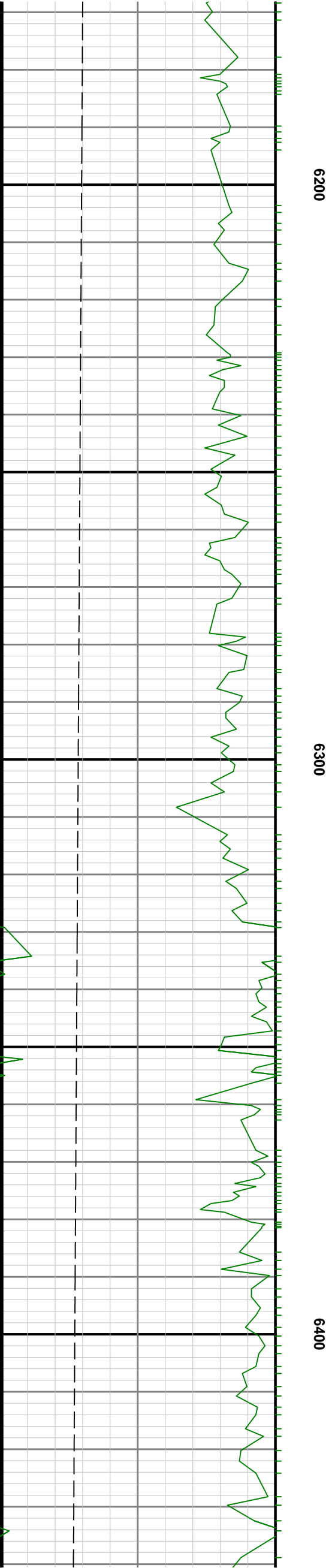
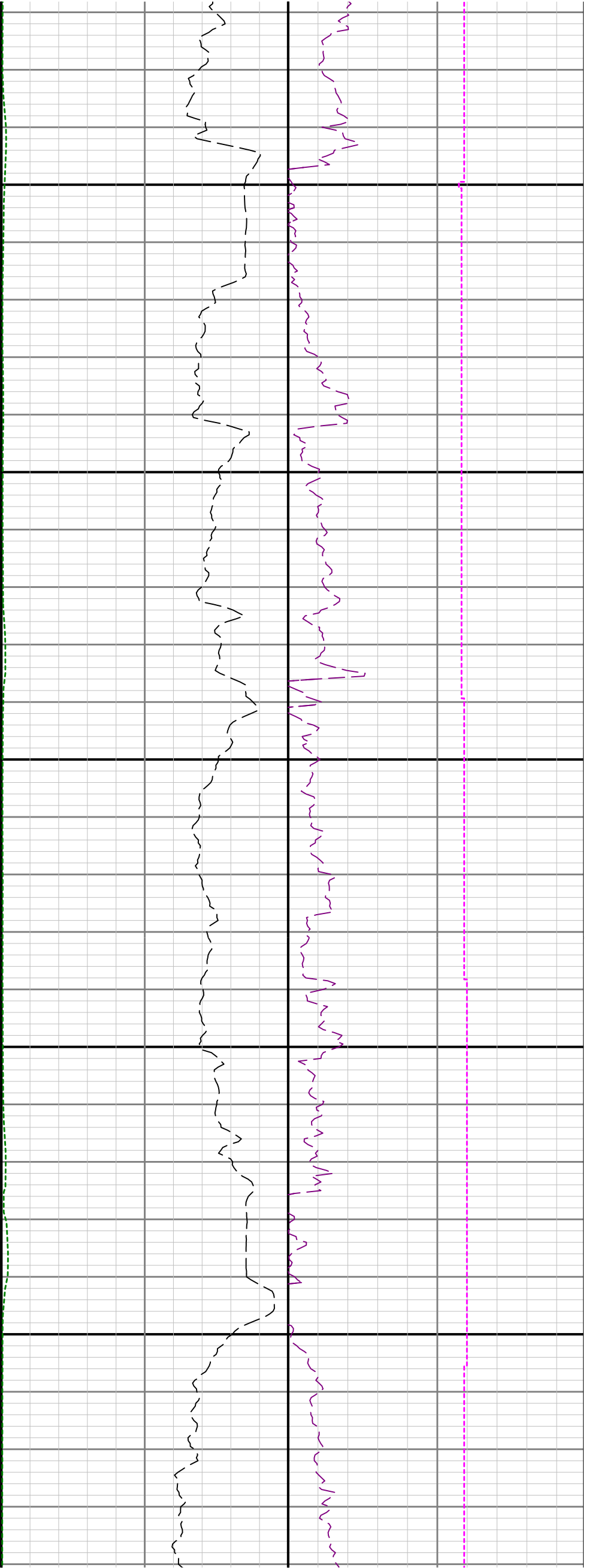
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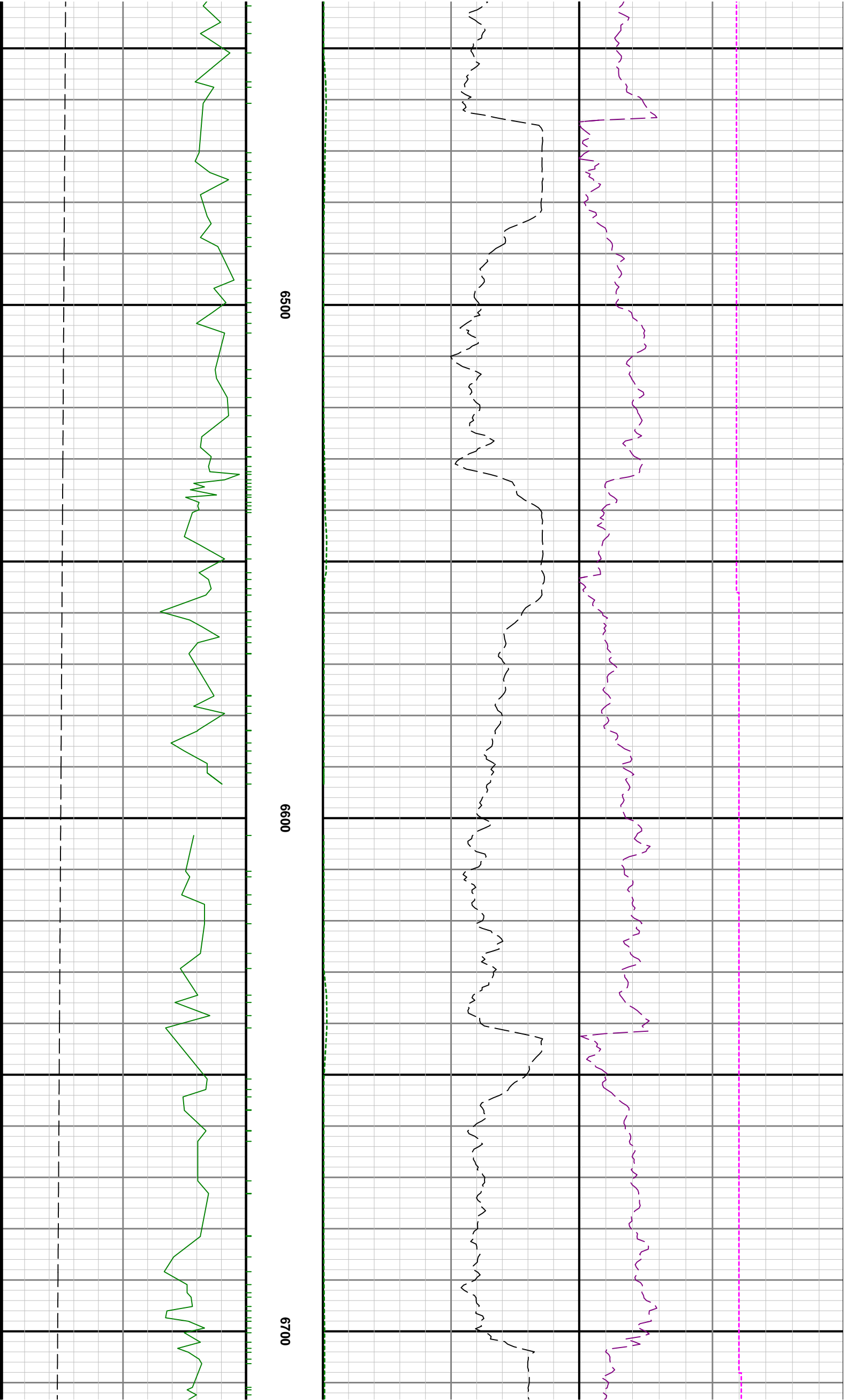
See Remark 1

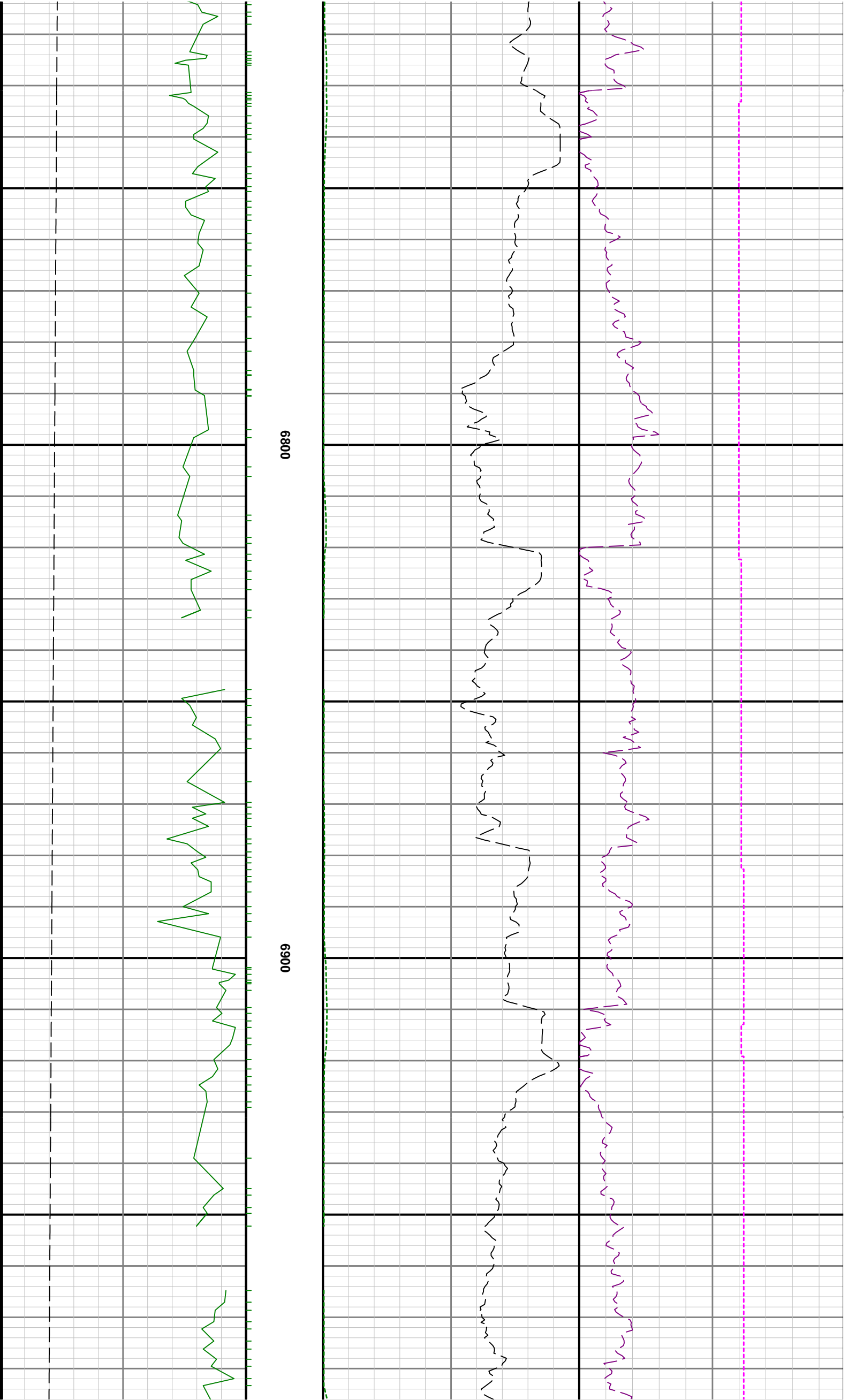


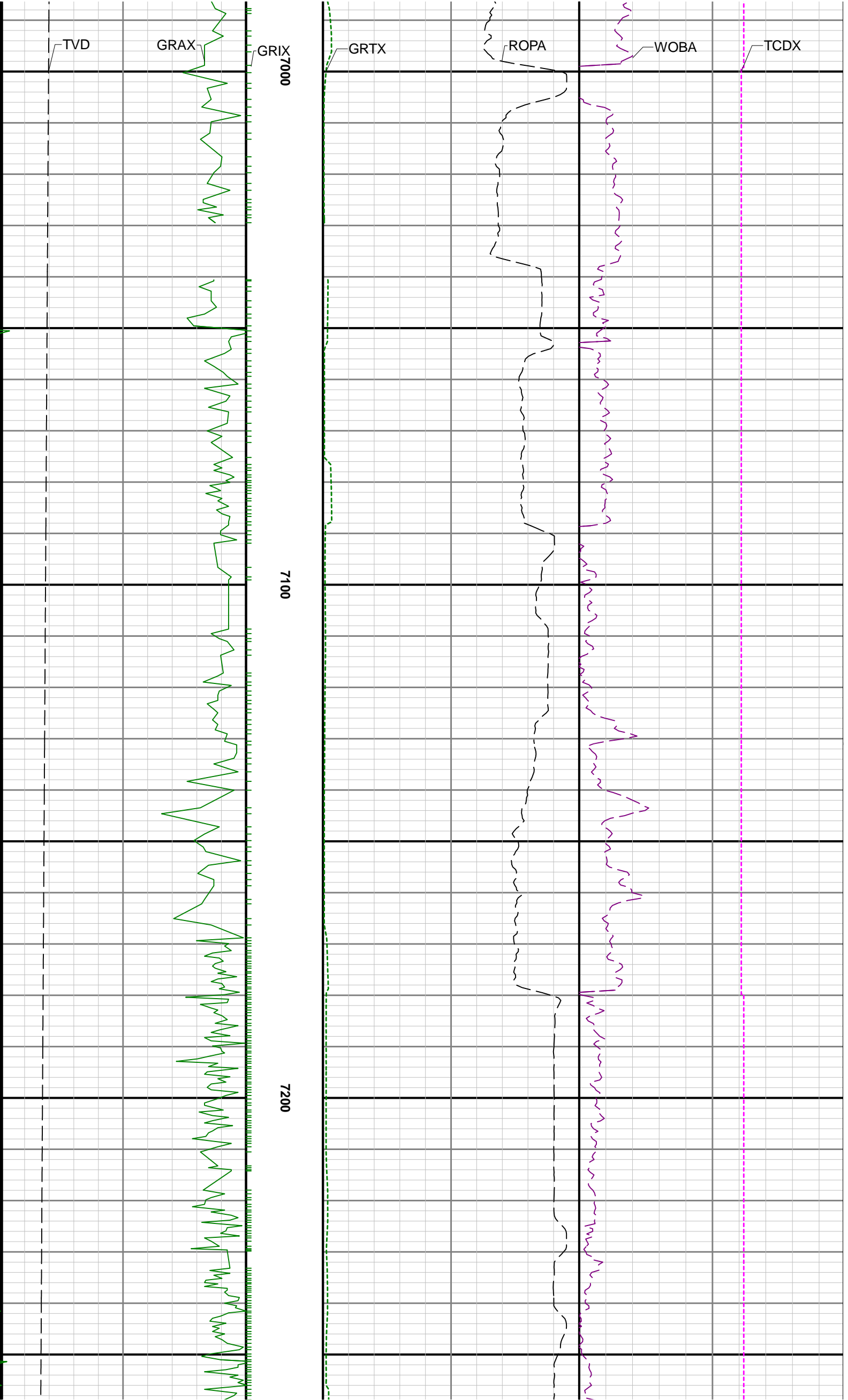


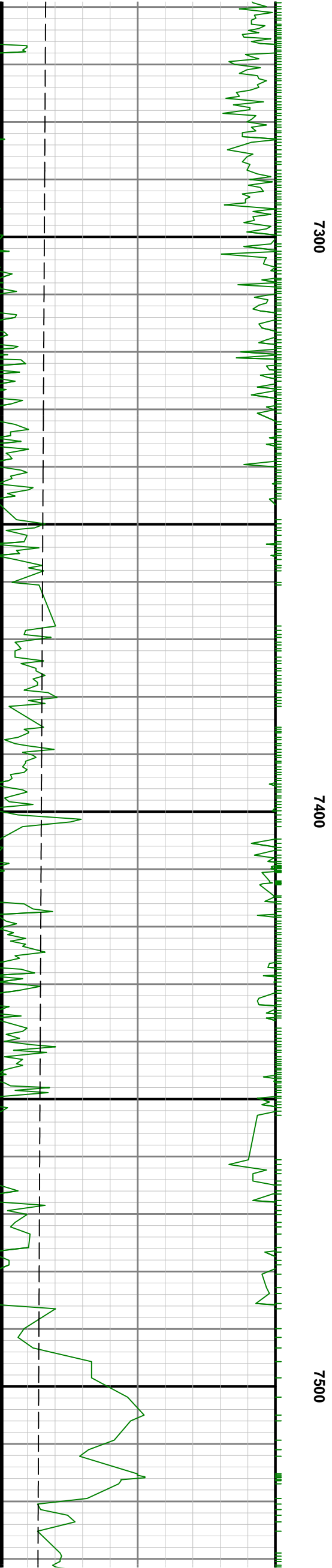


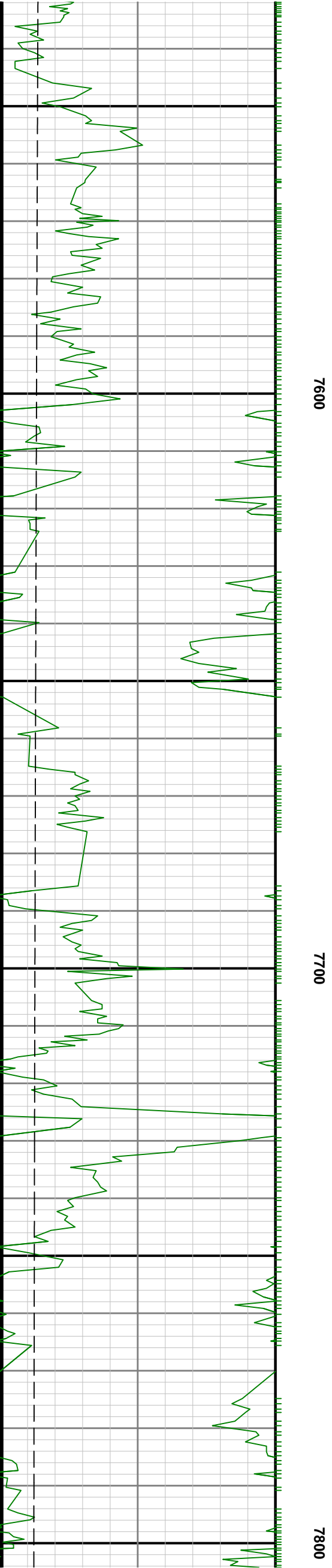
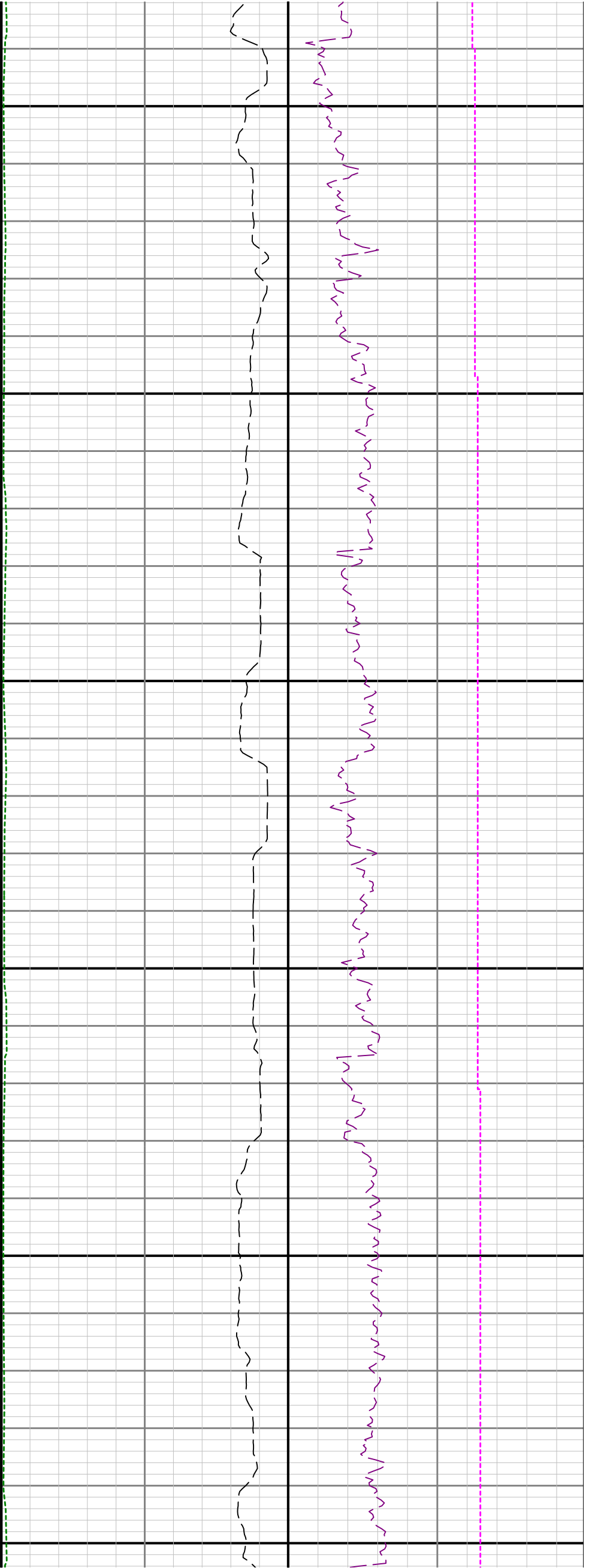


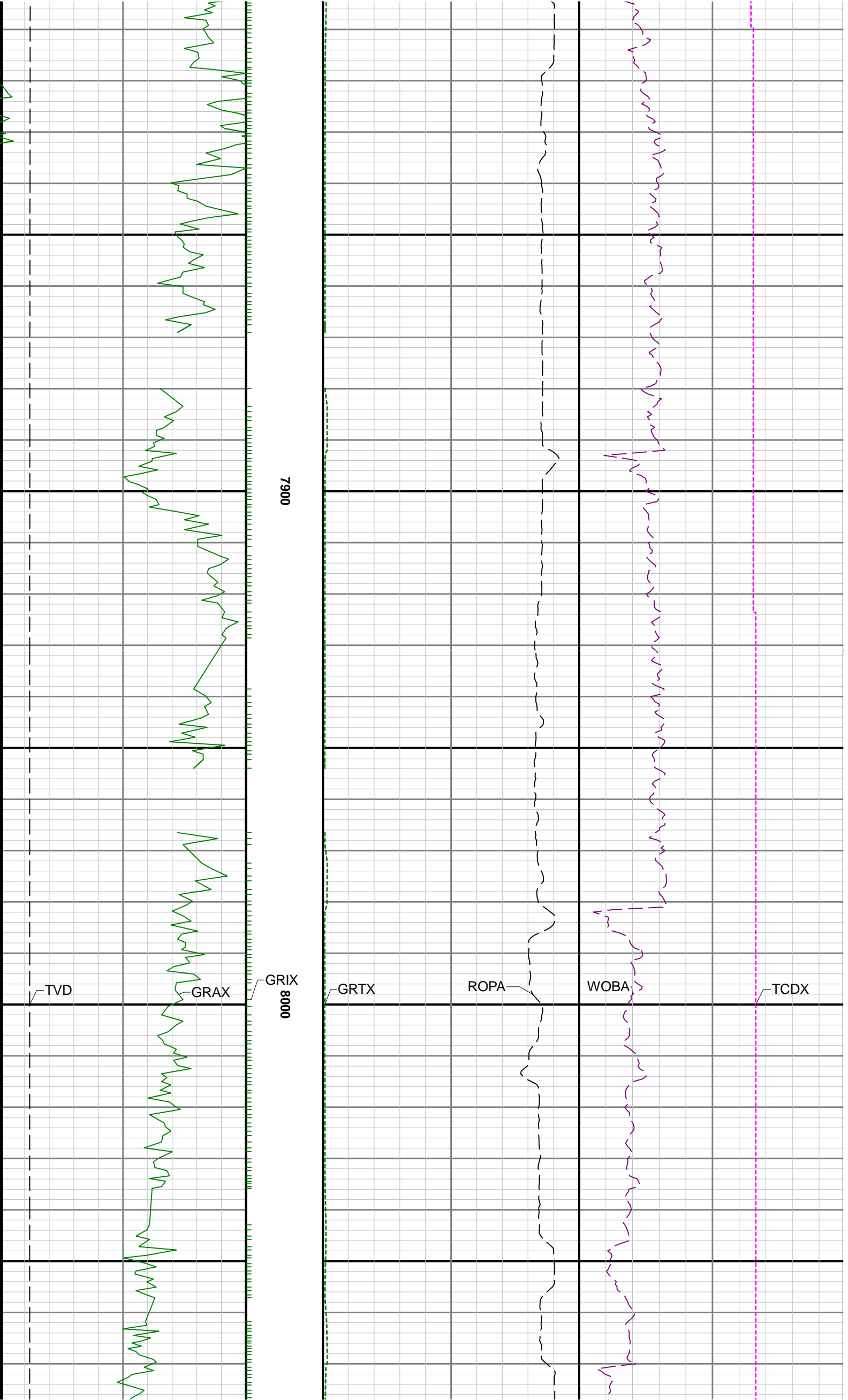


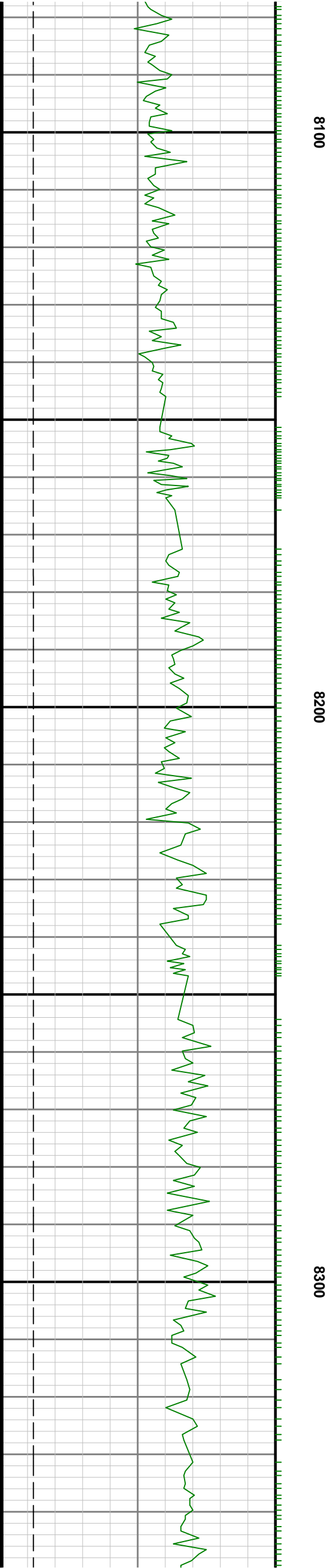


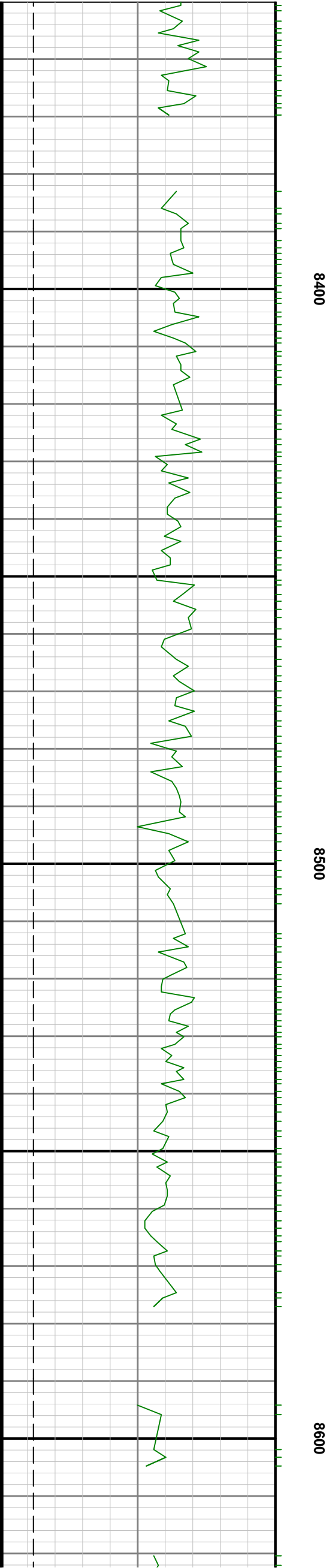
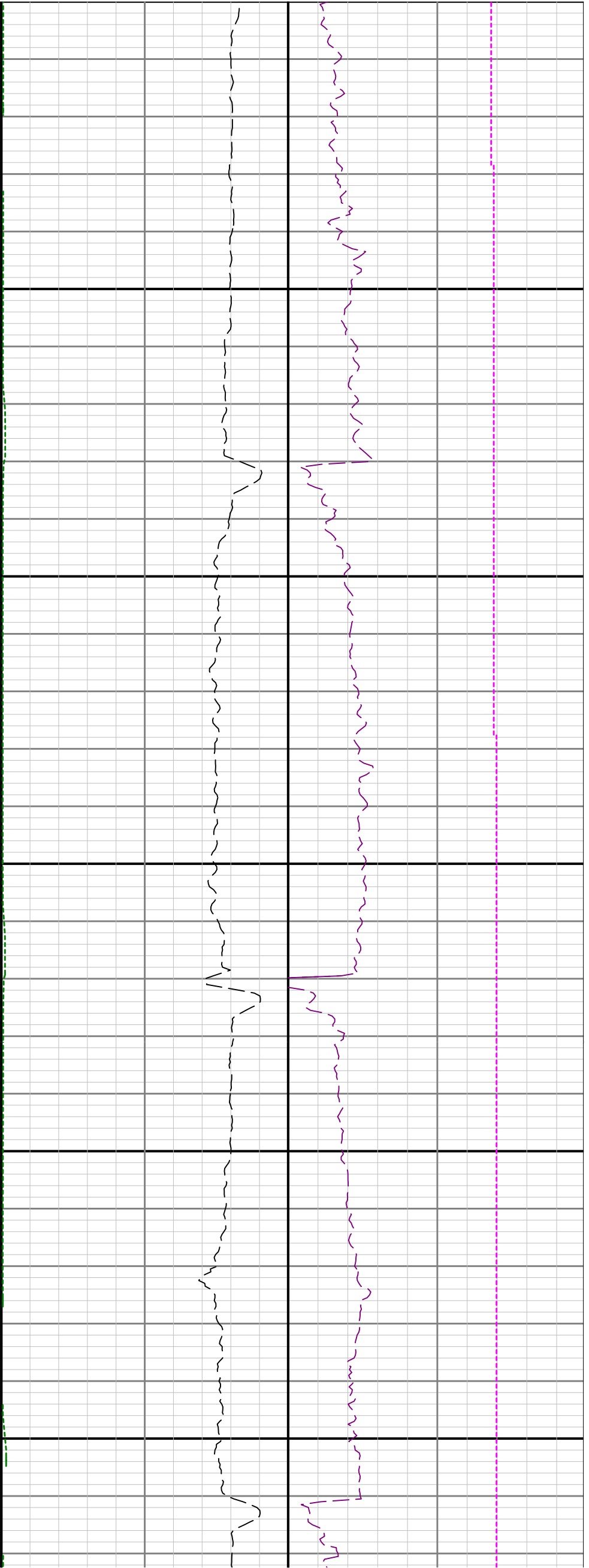


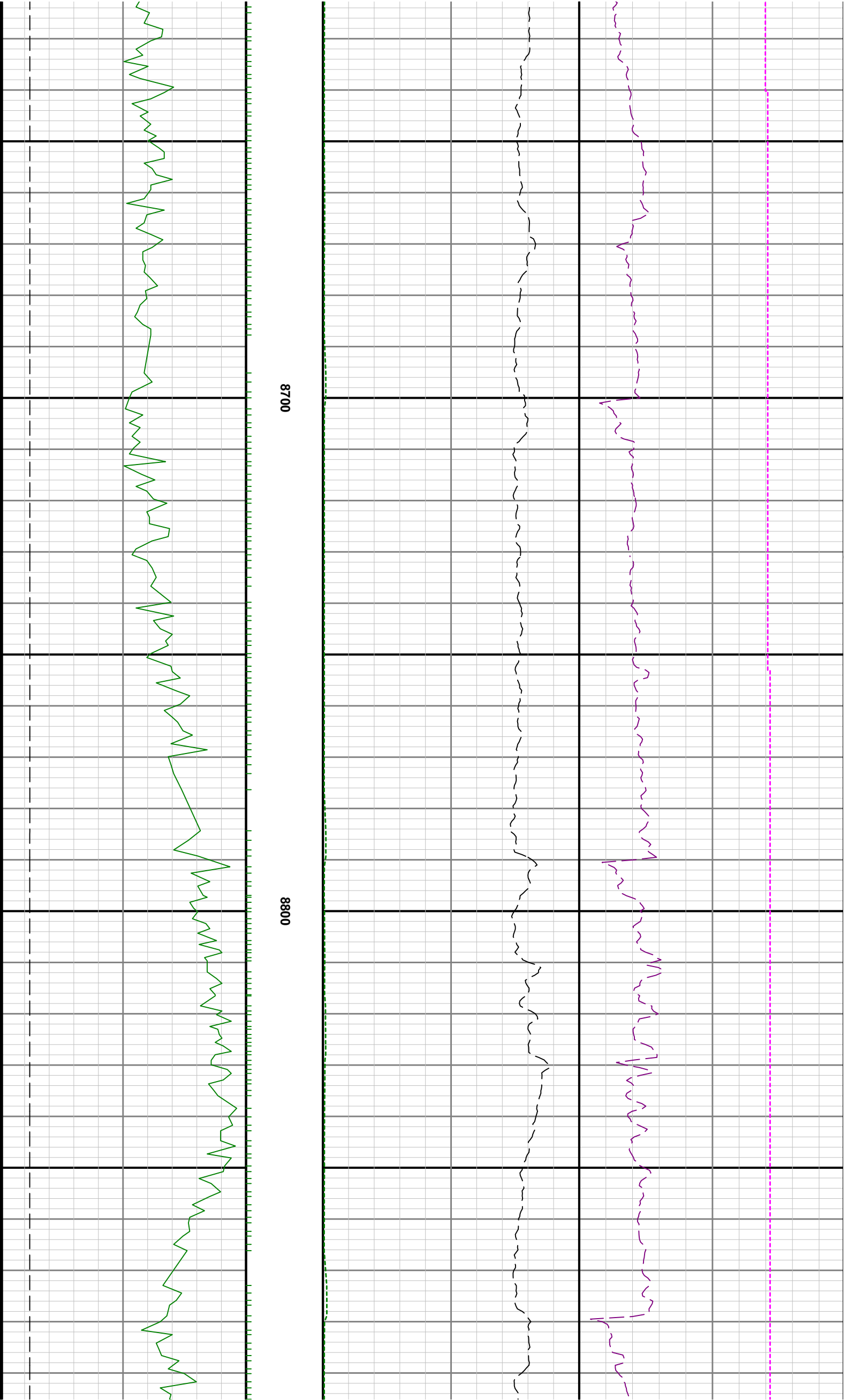


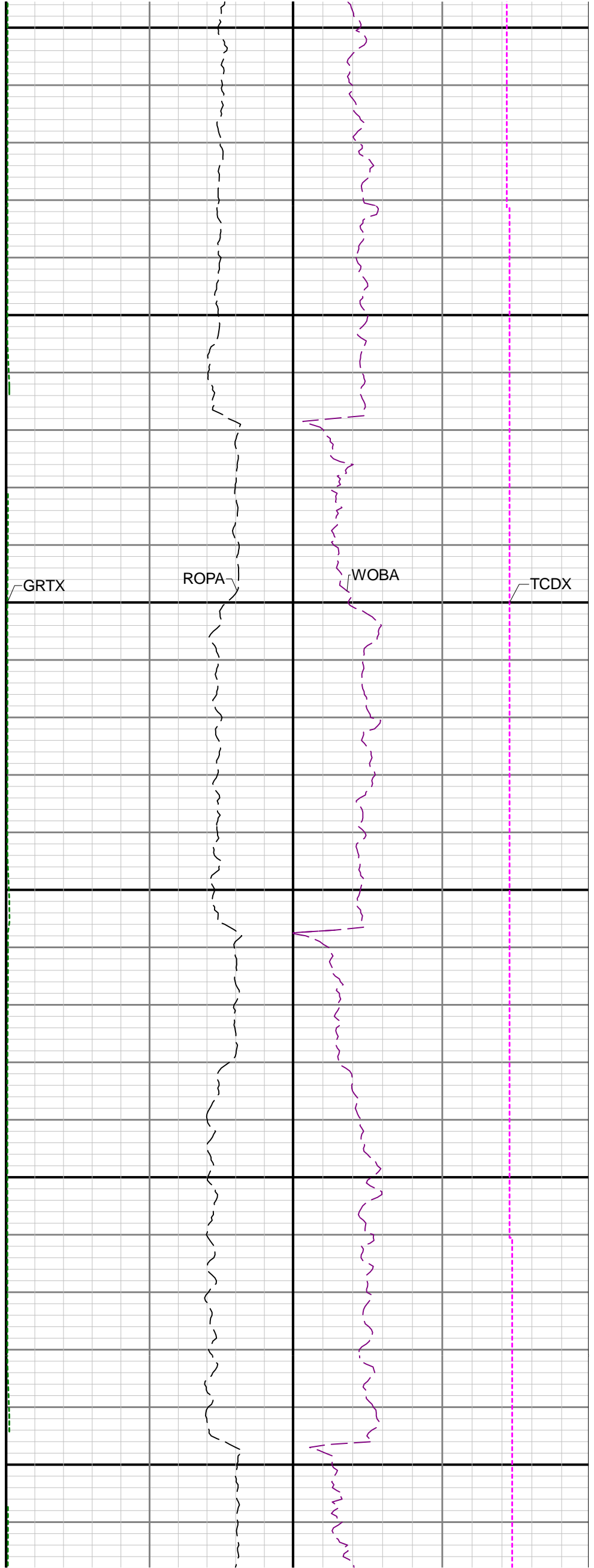
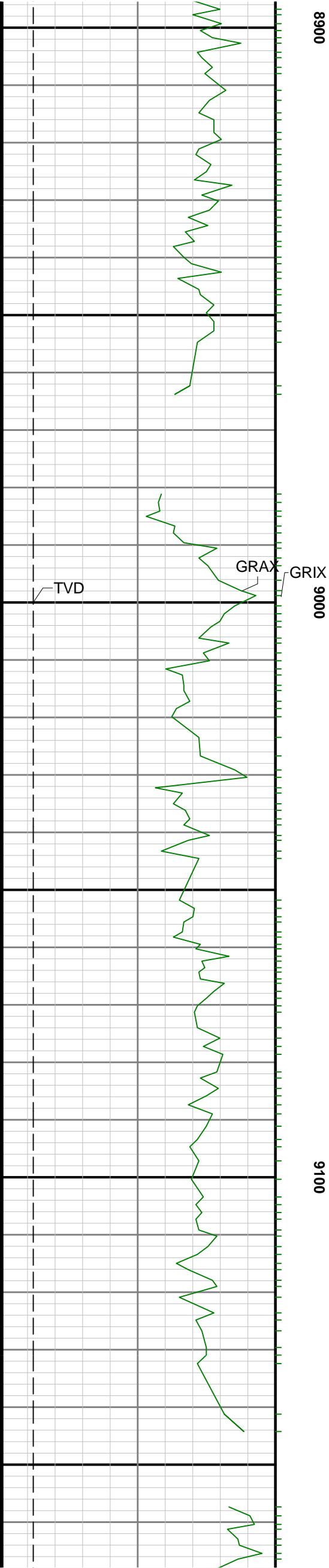


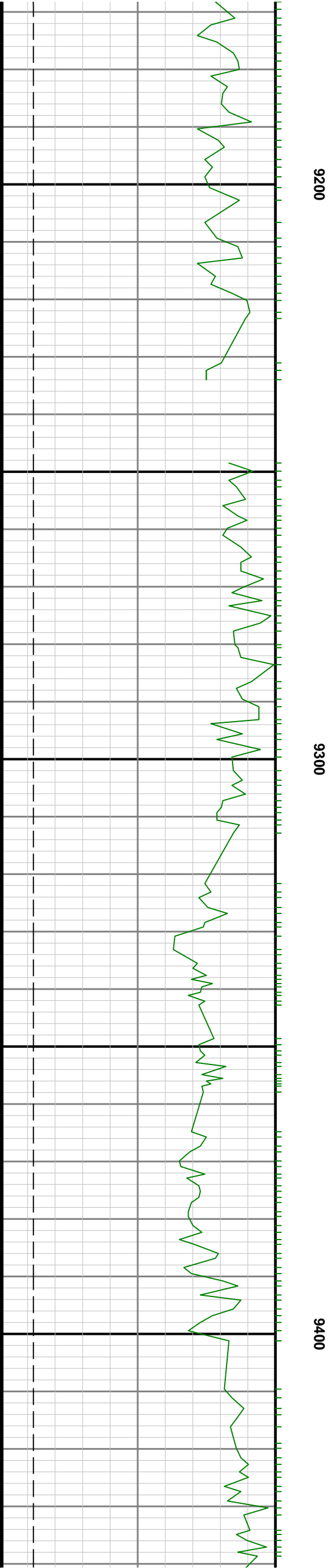
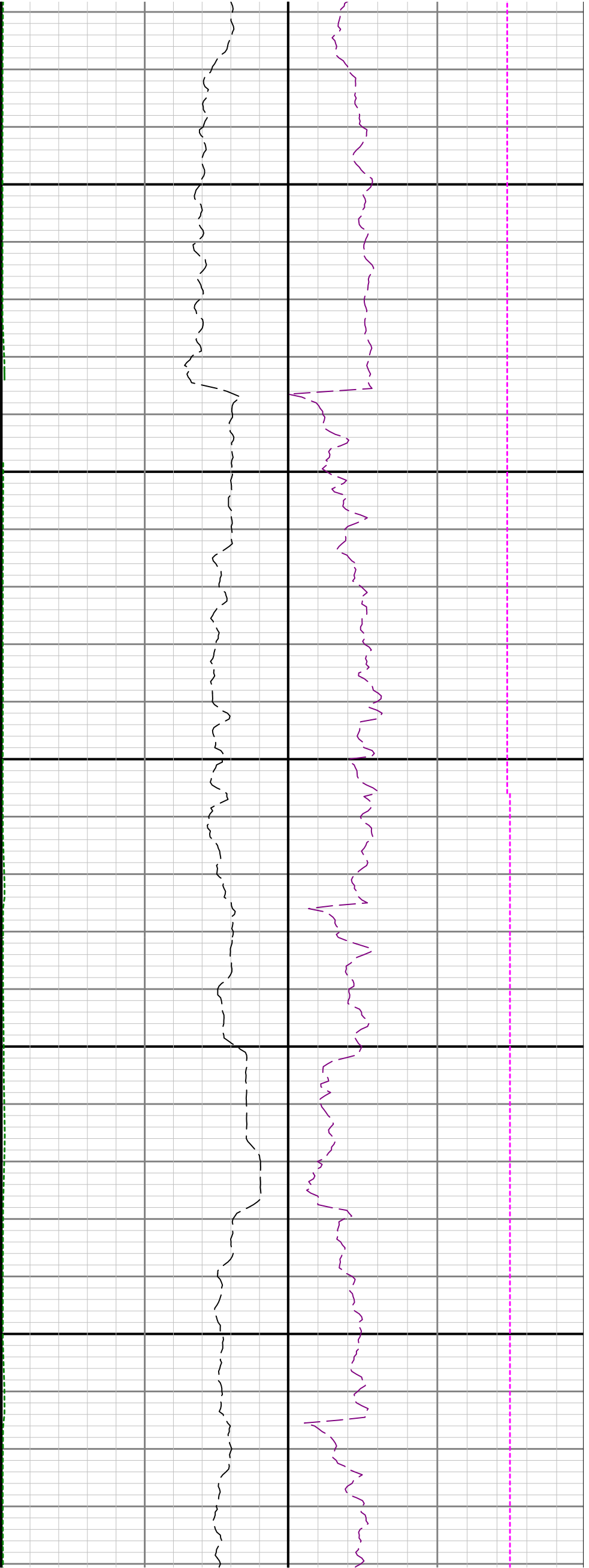


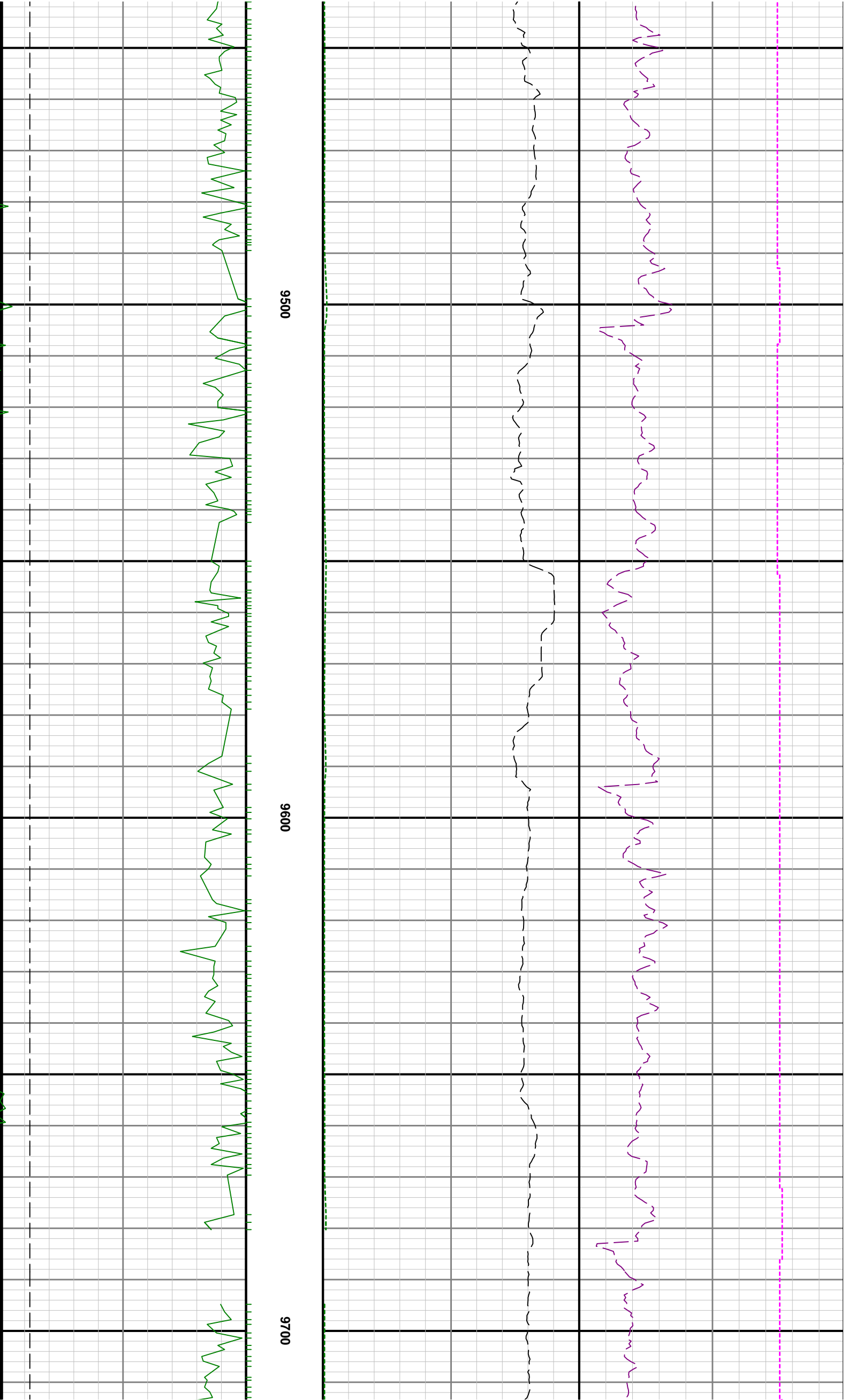


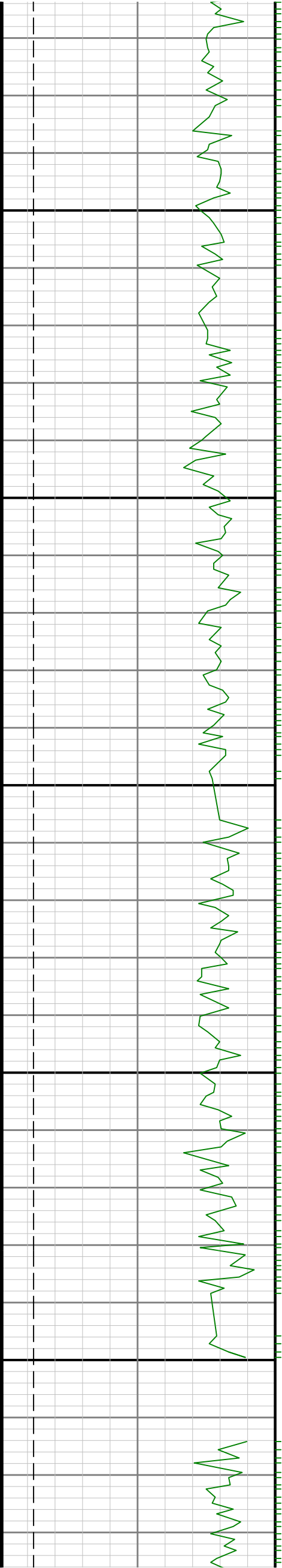






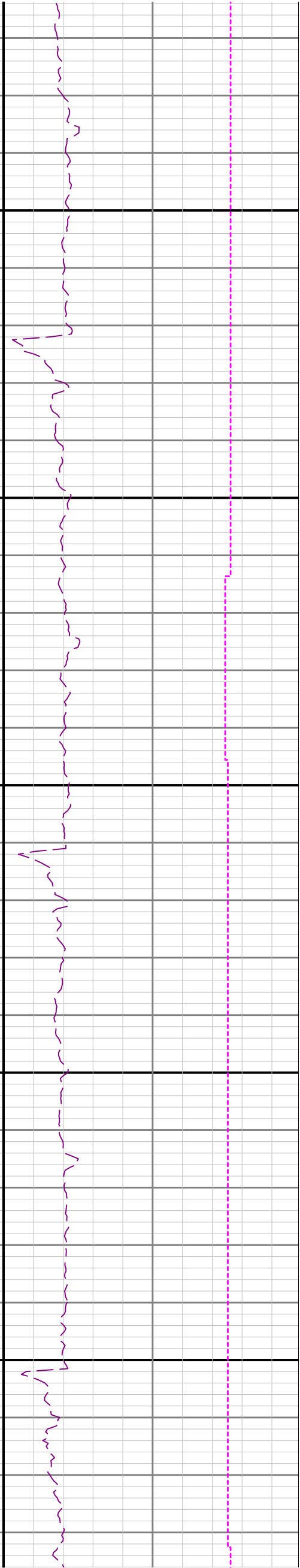
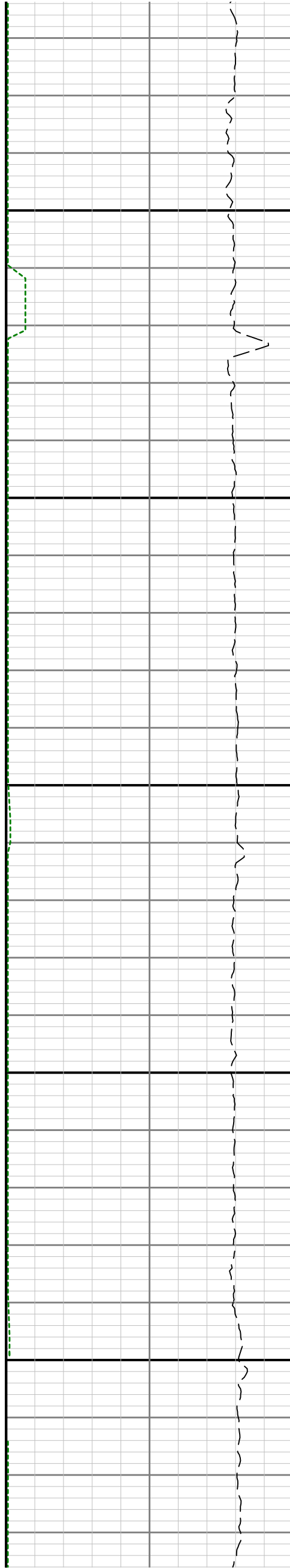


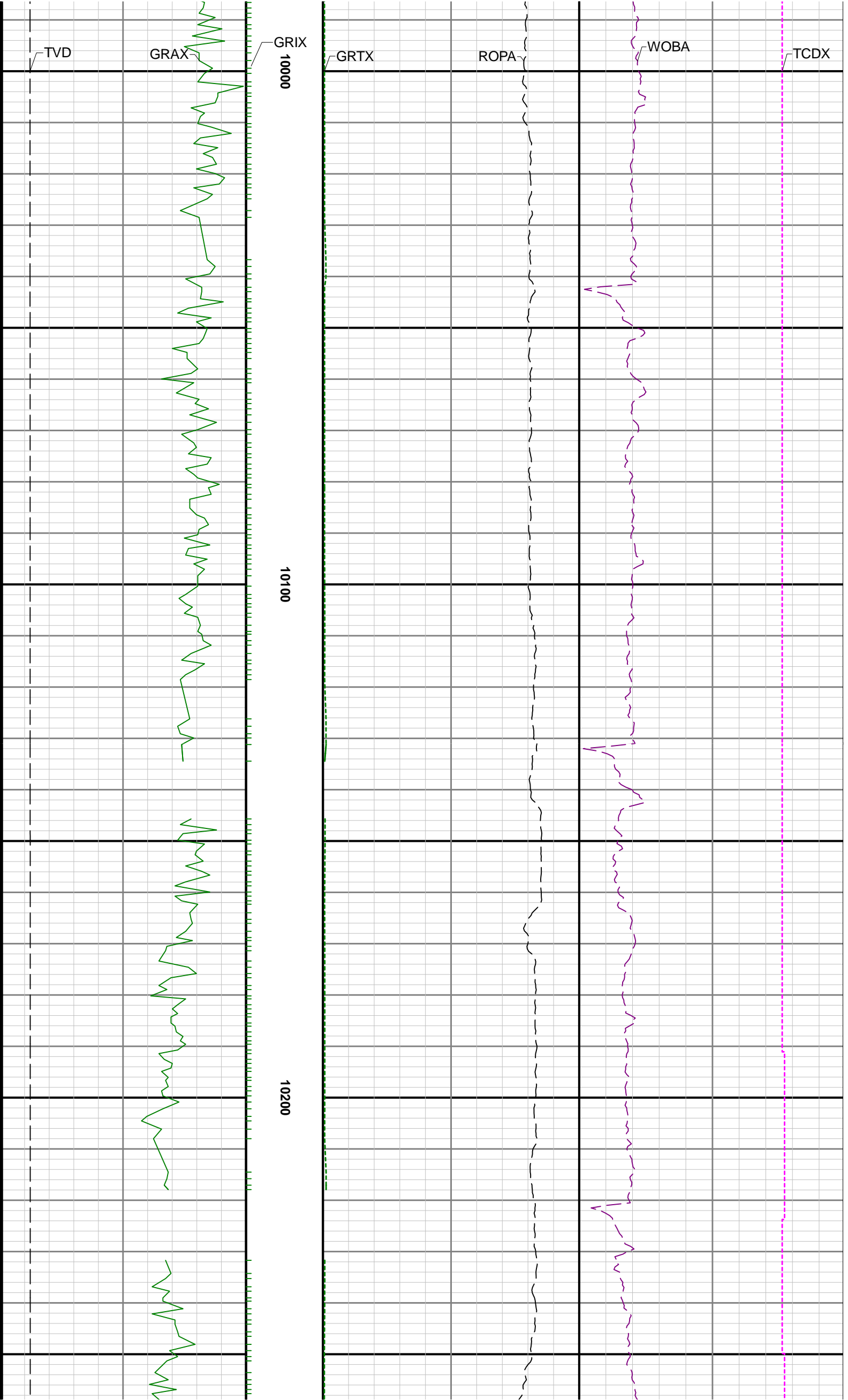


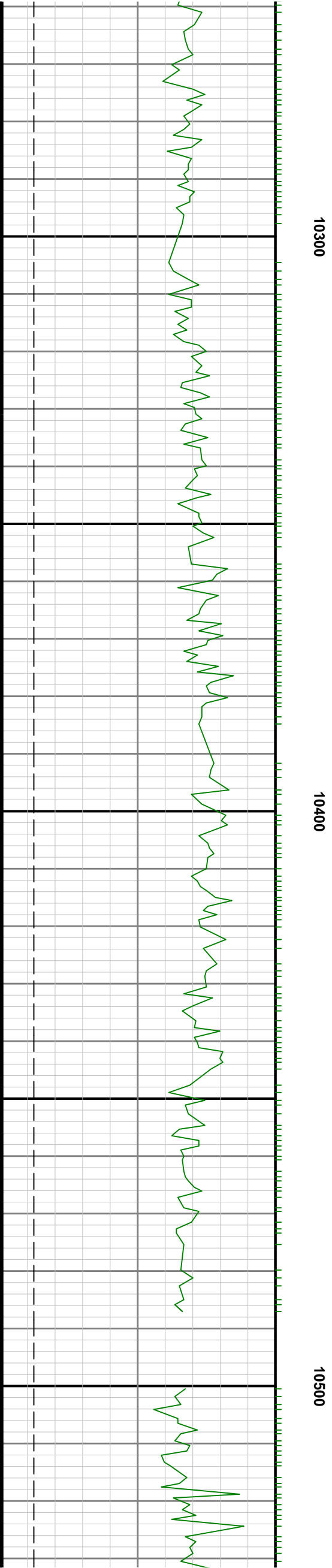
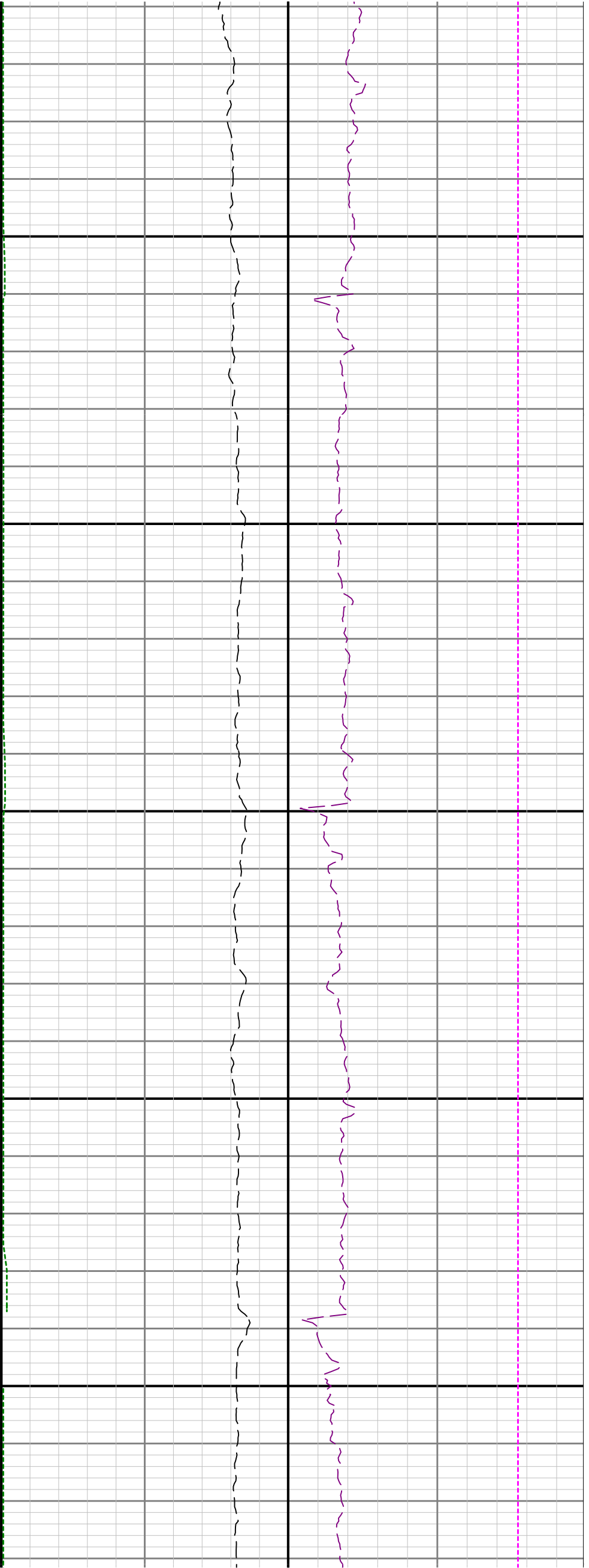


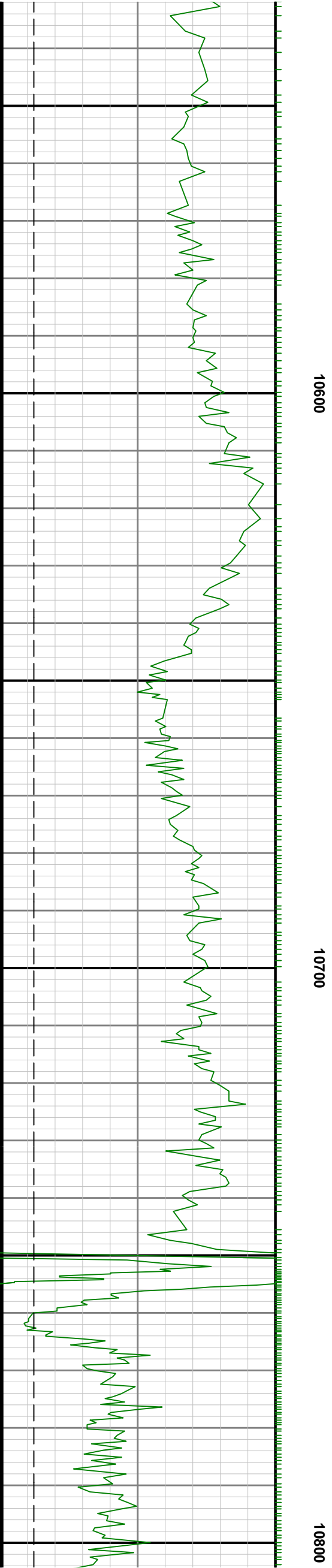
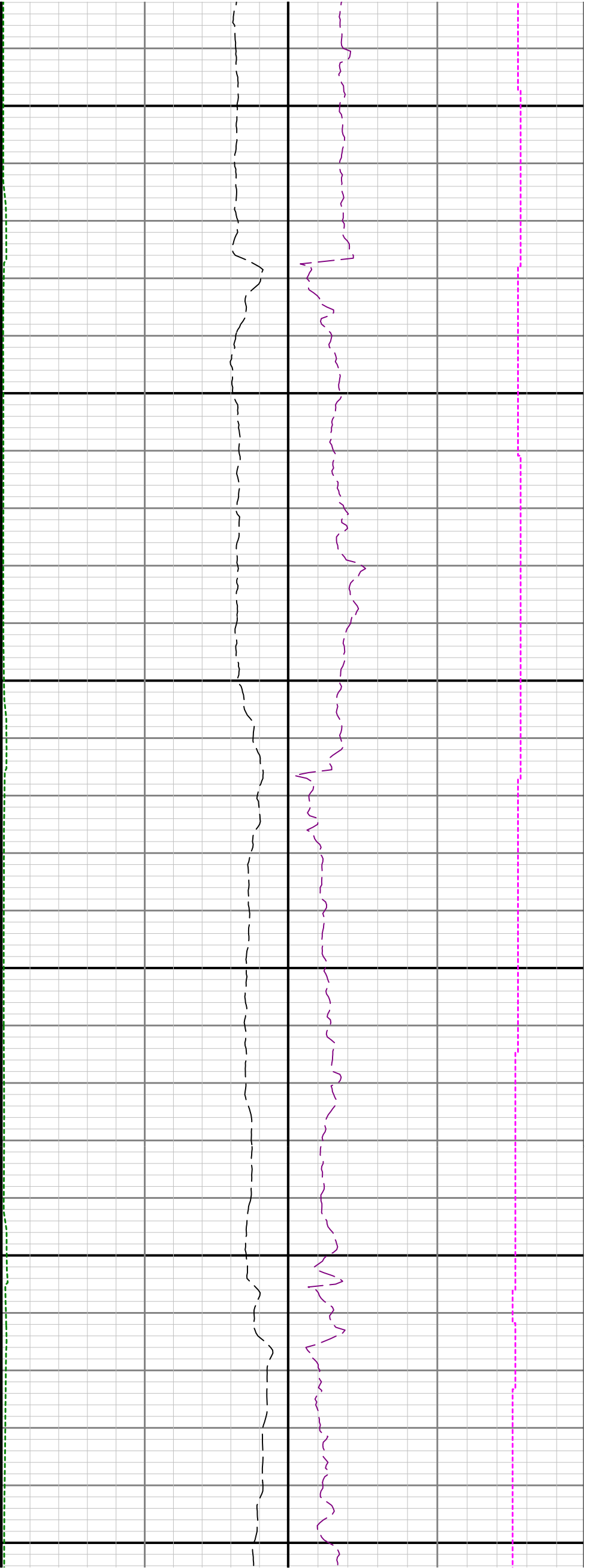
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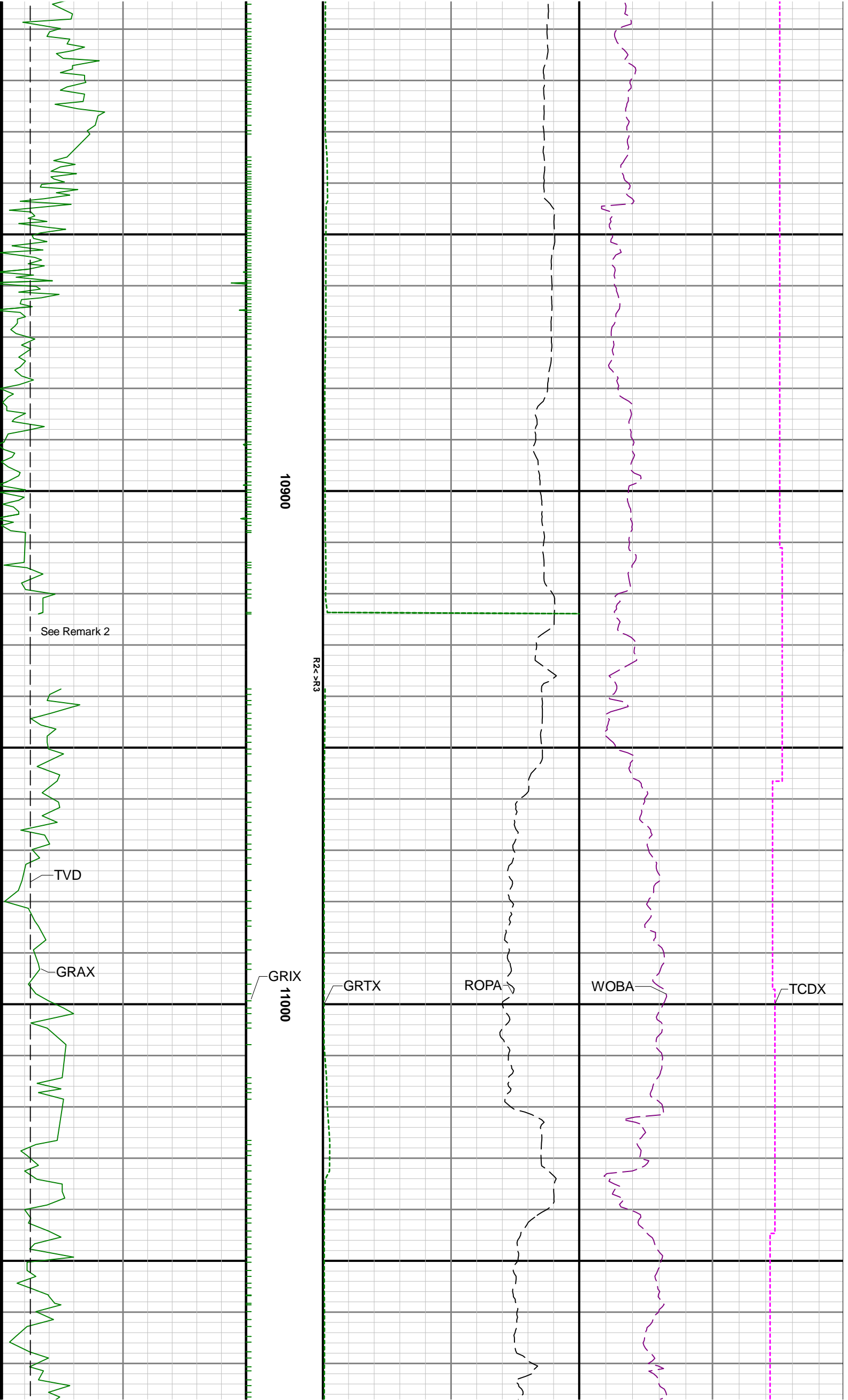
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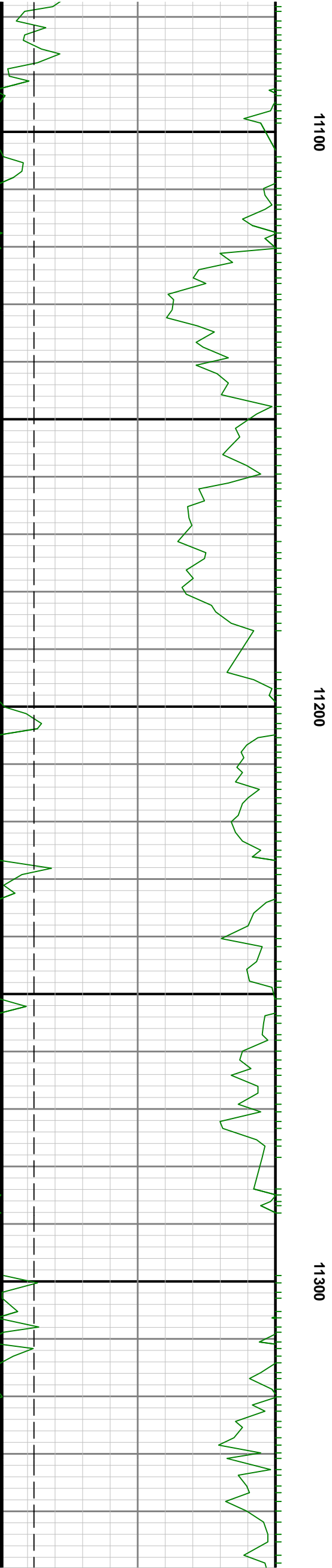
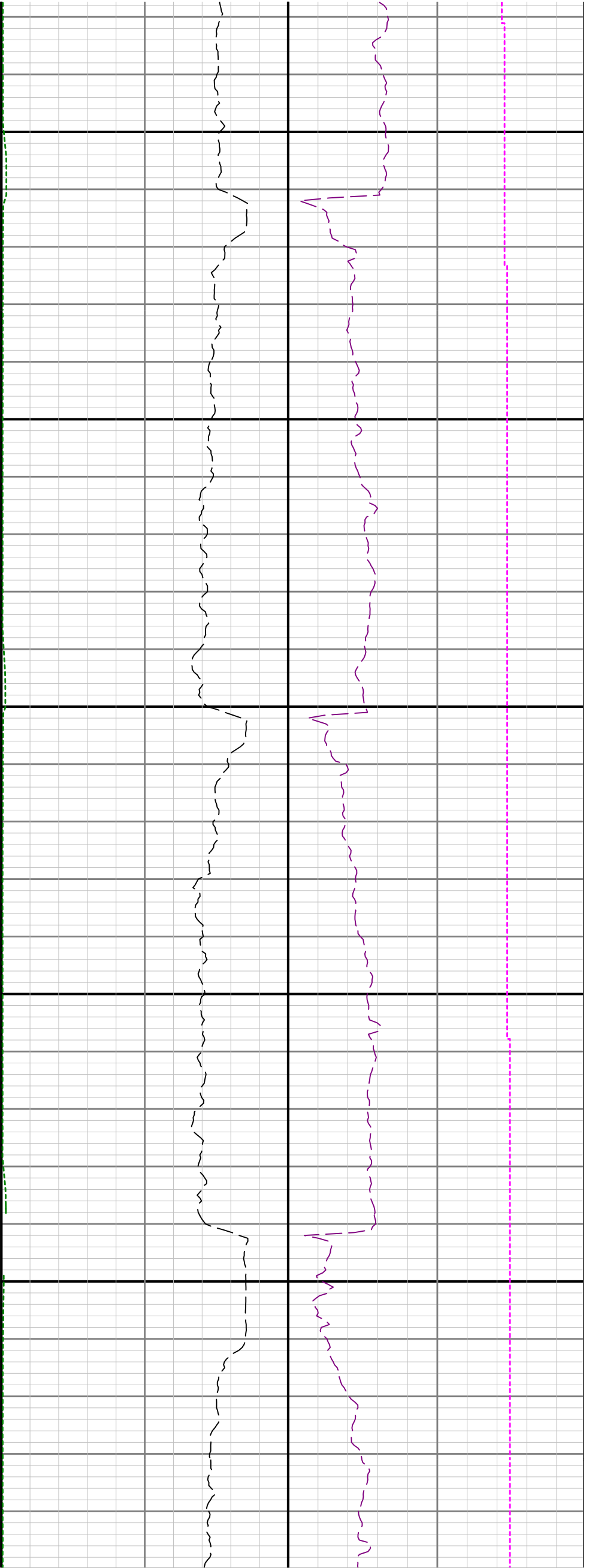


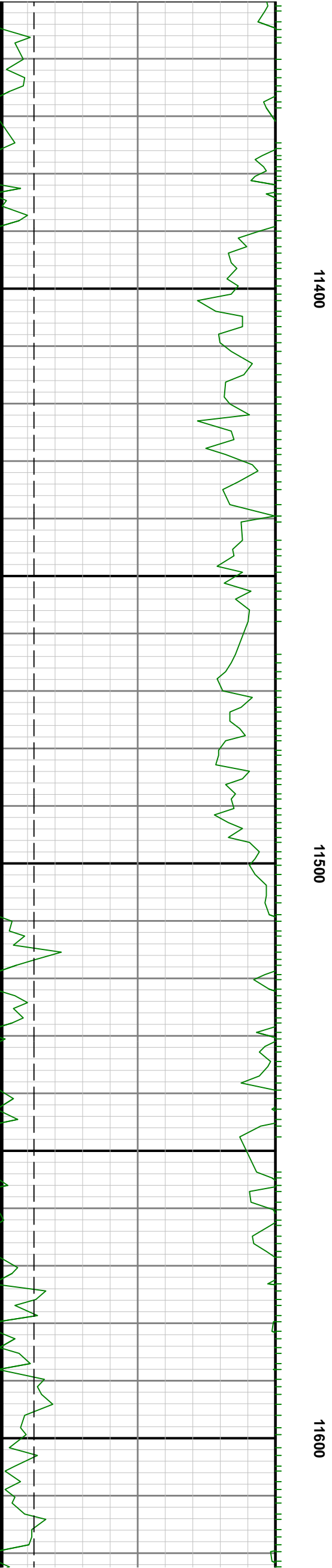
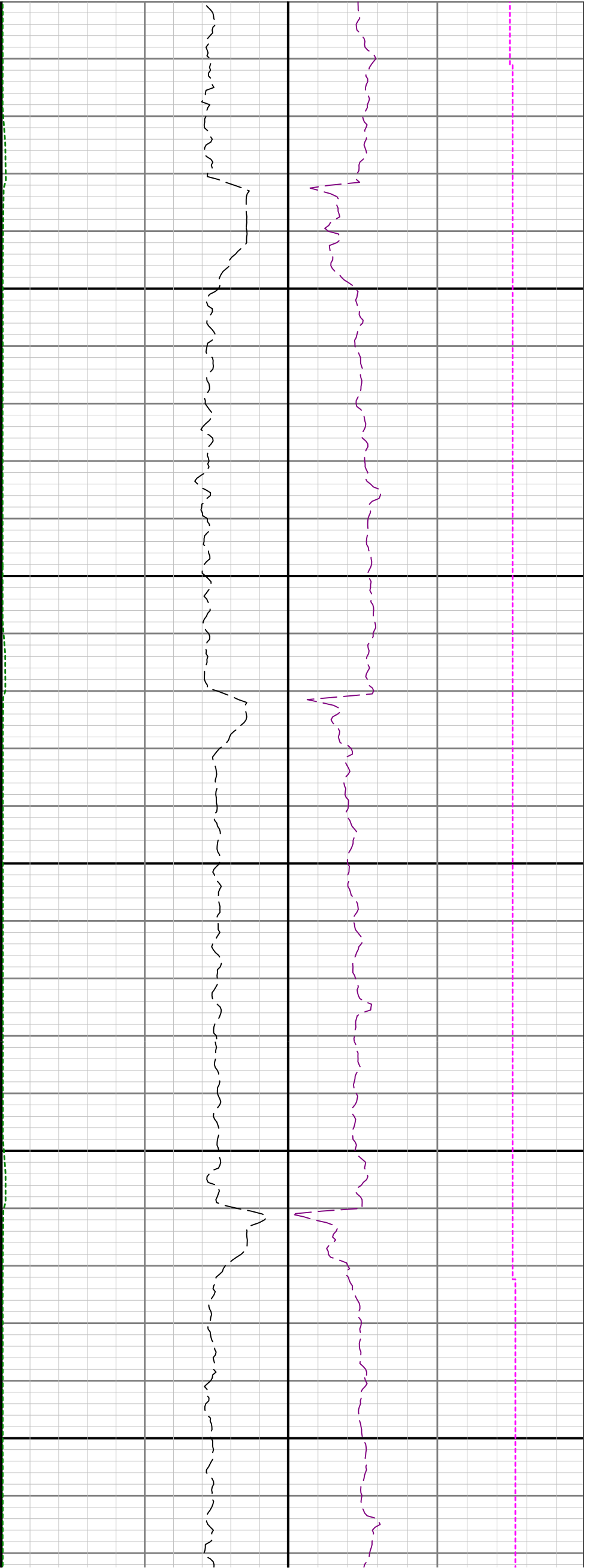


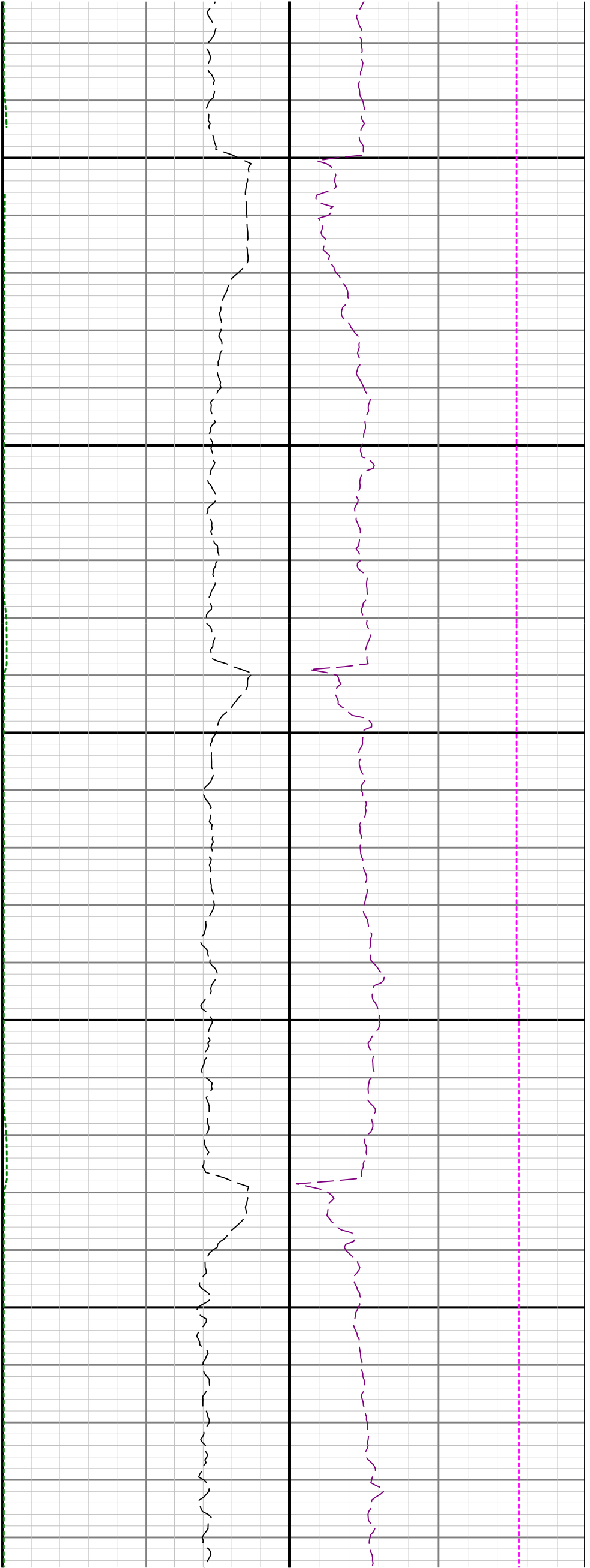






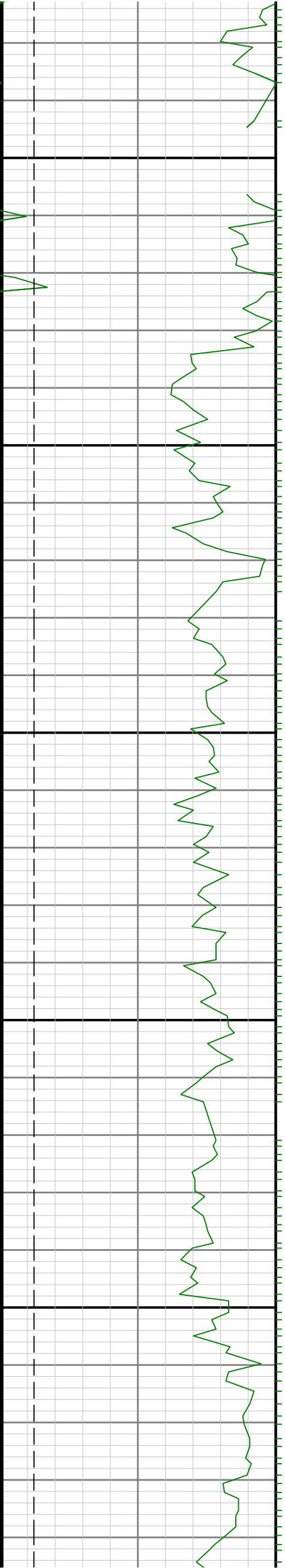


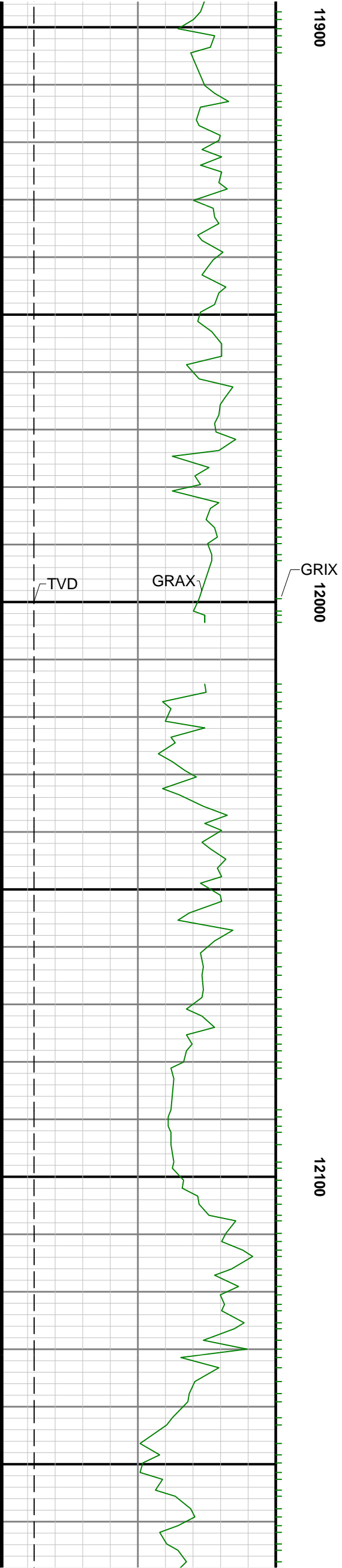
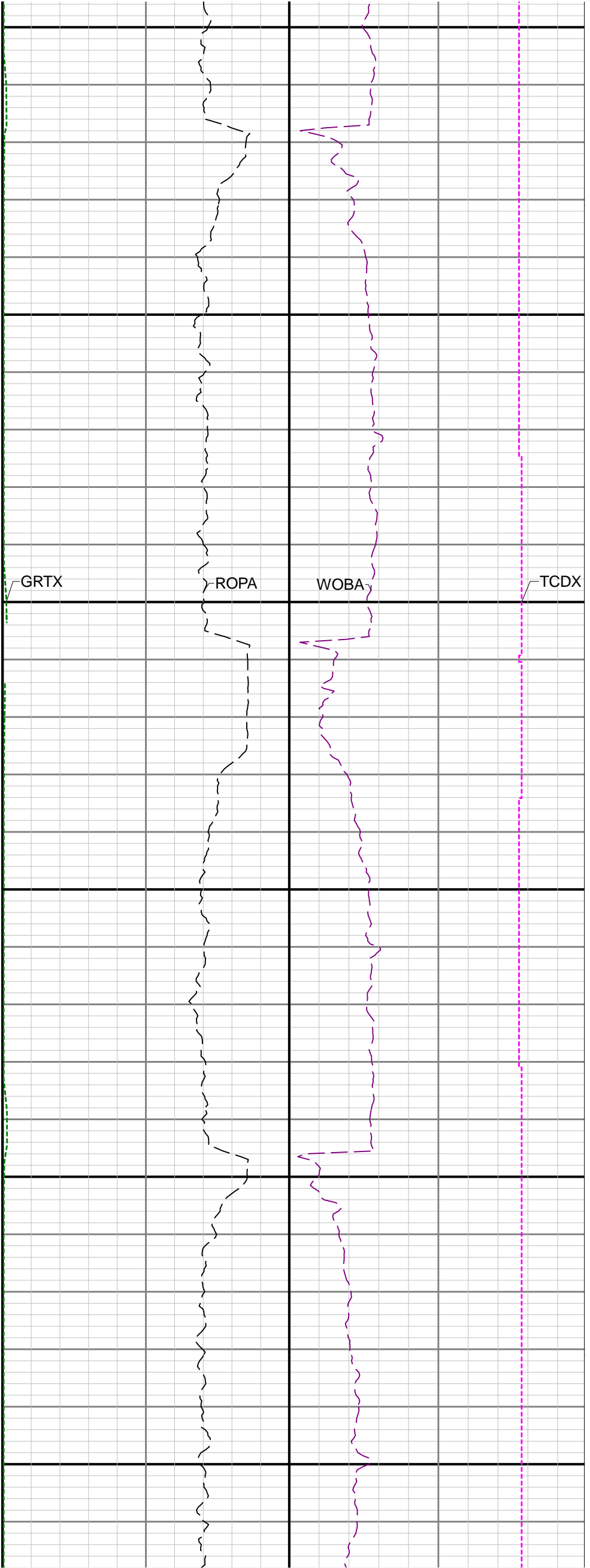


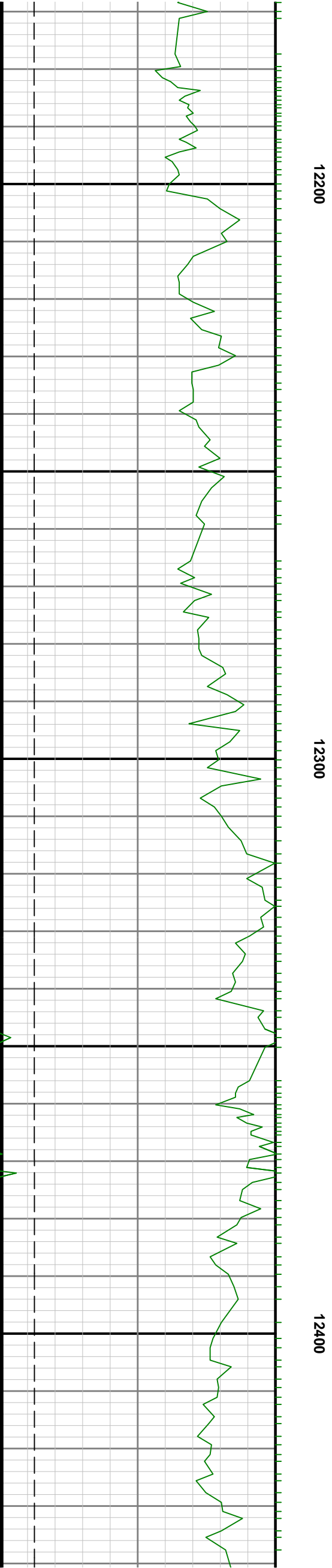
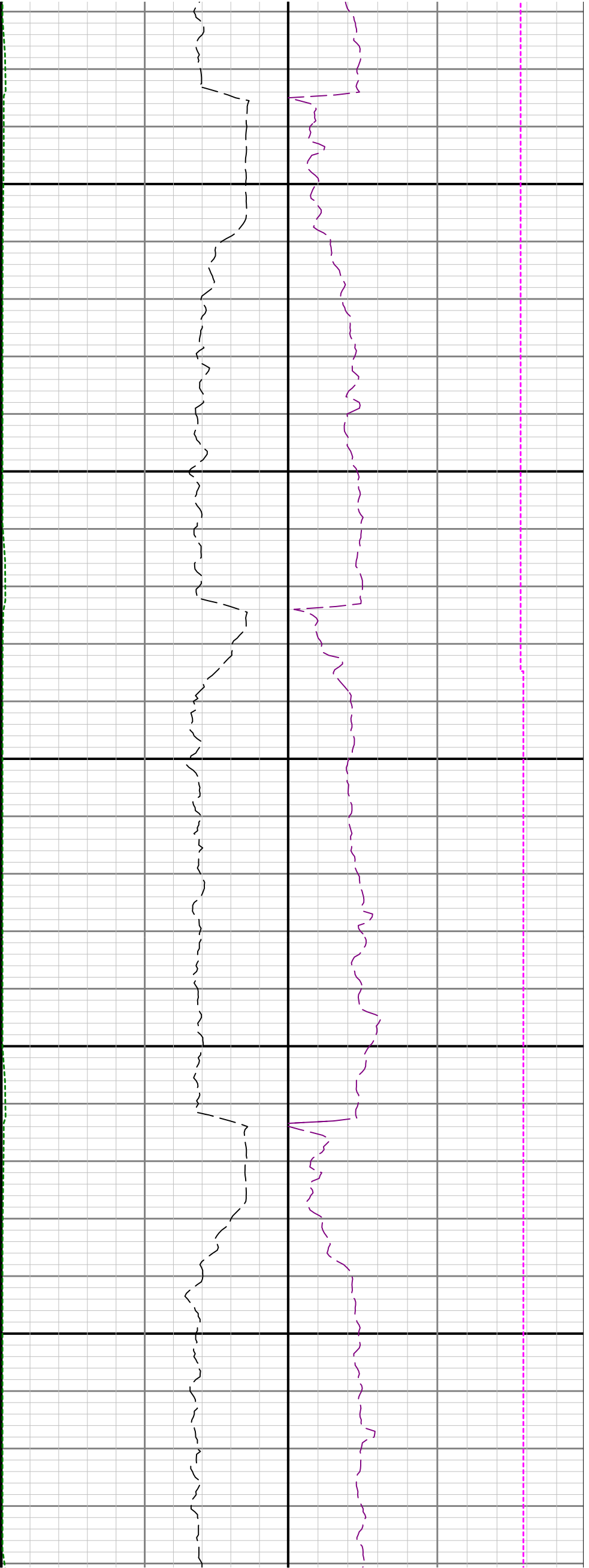


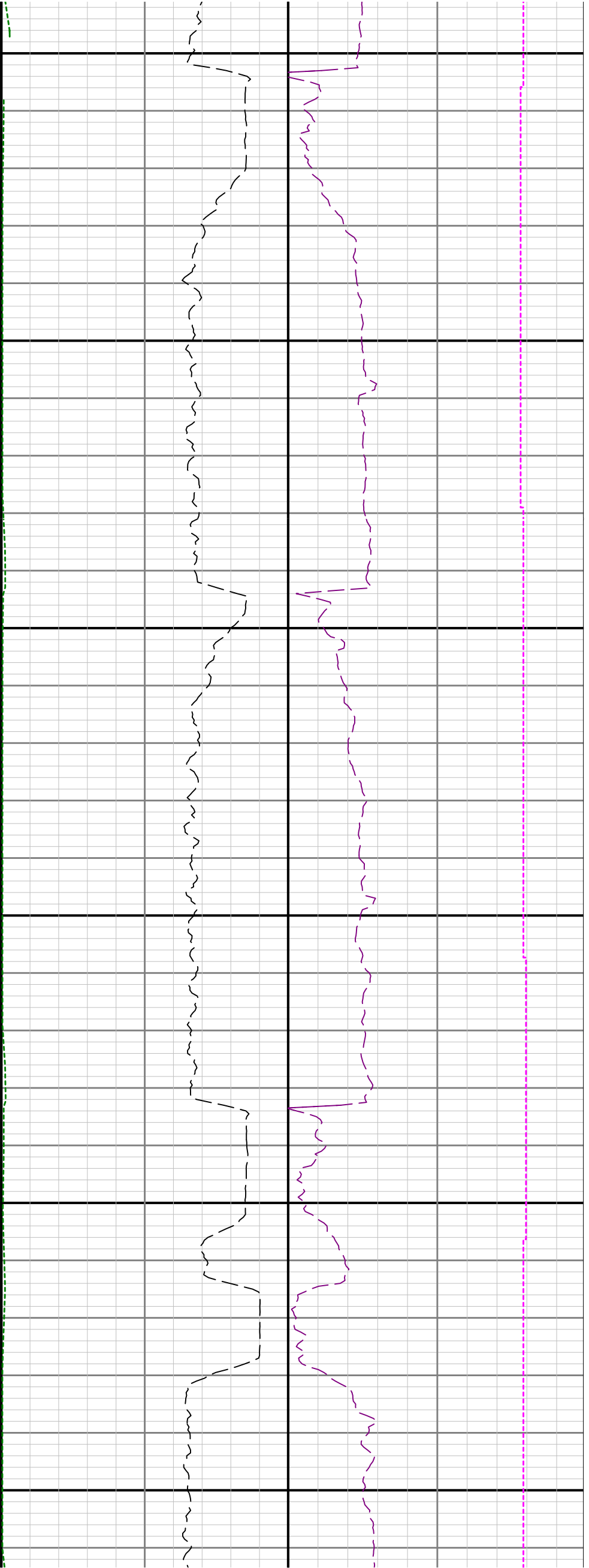
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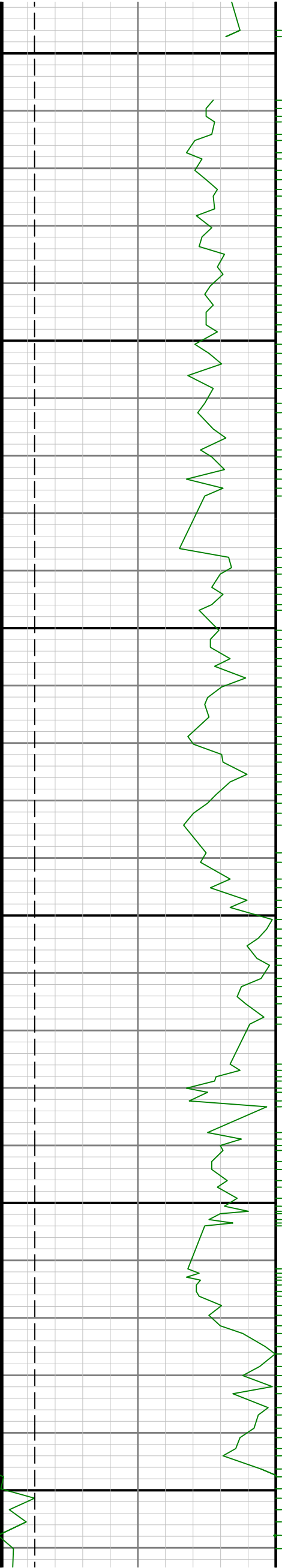


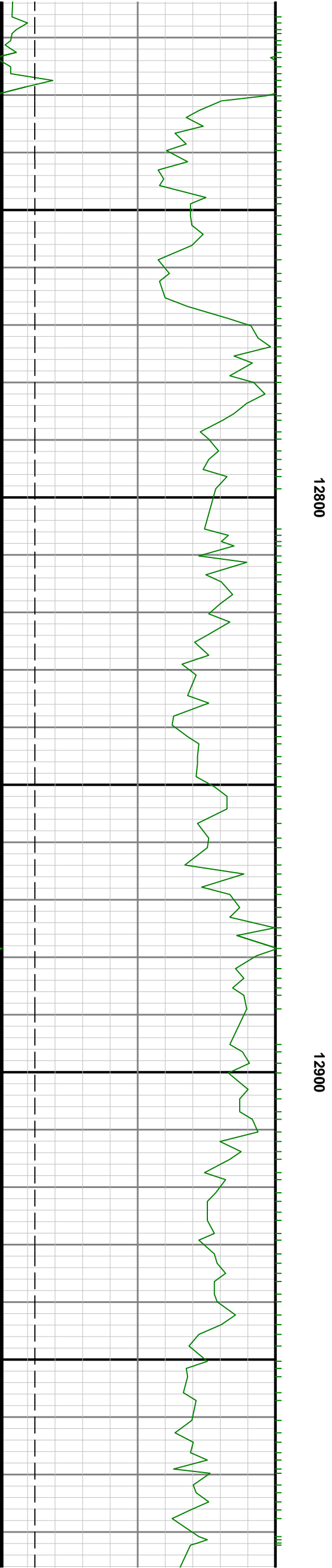
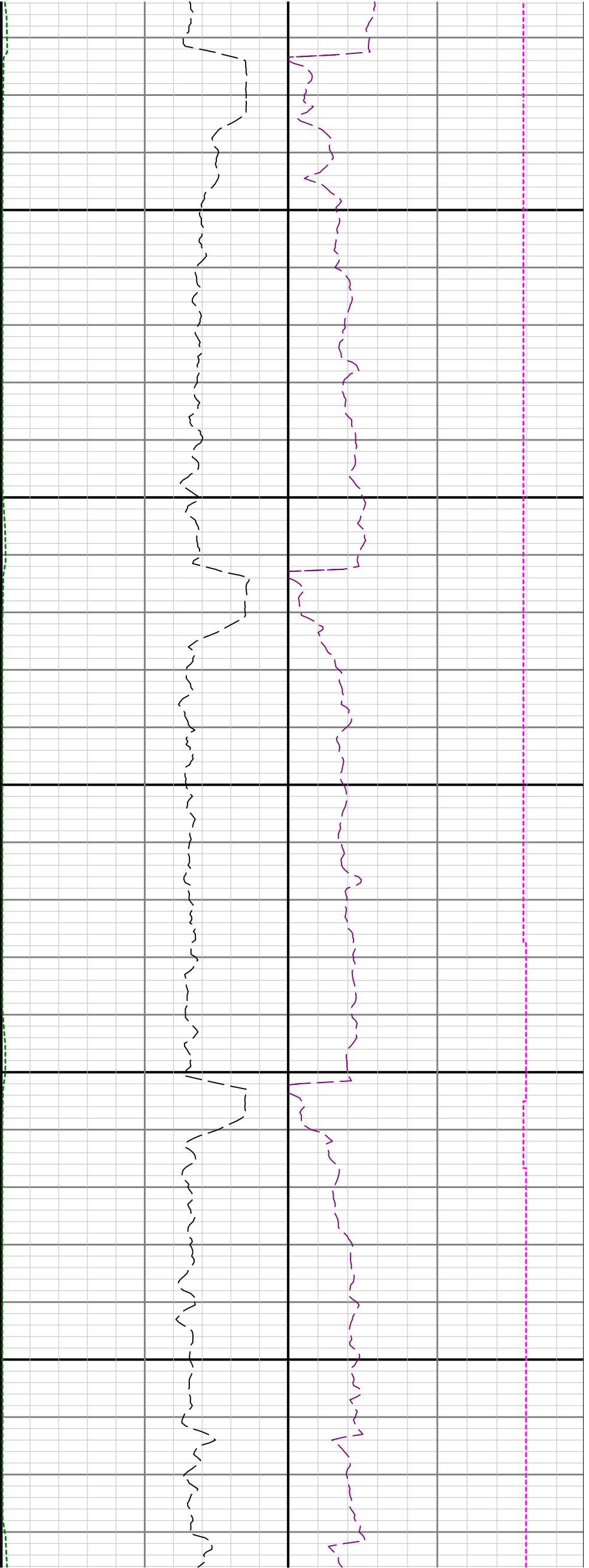


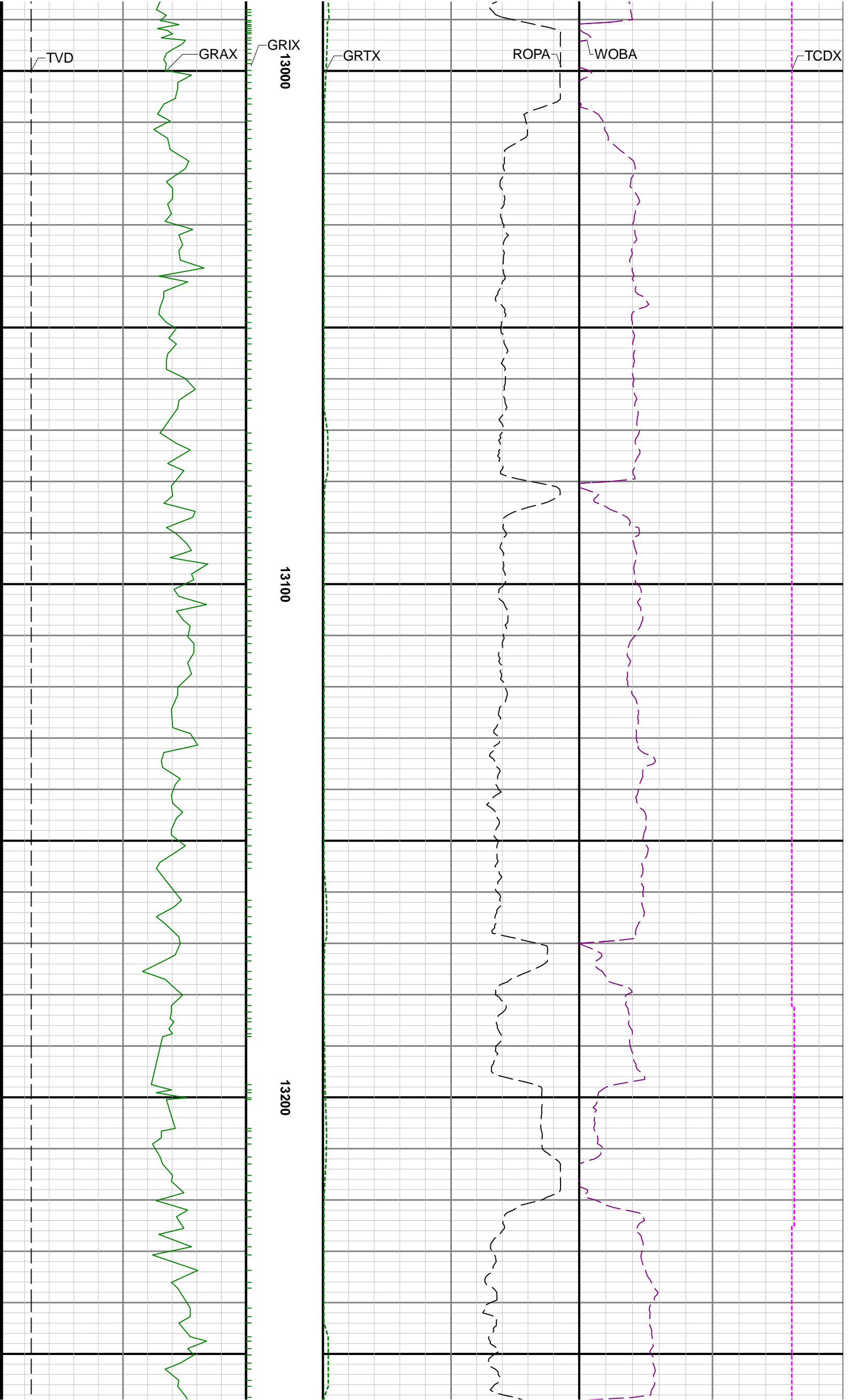
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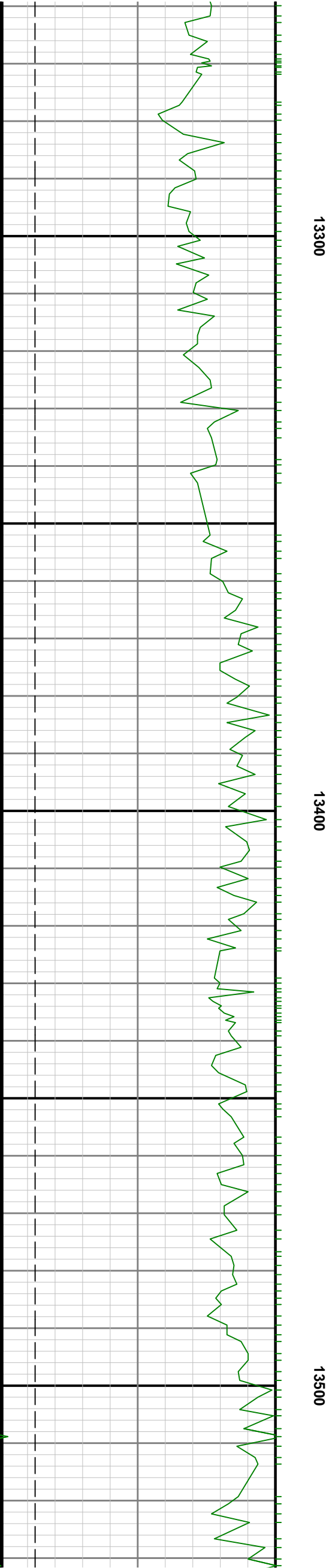
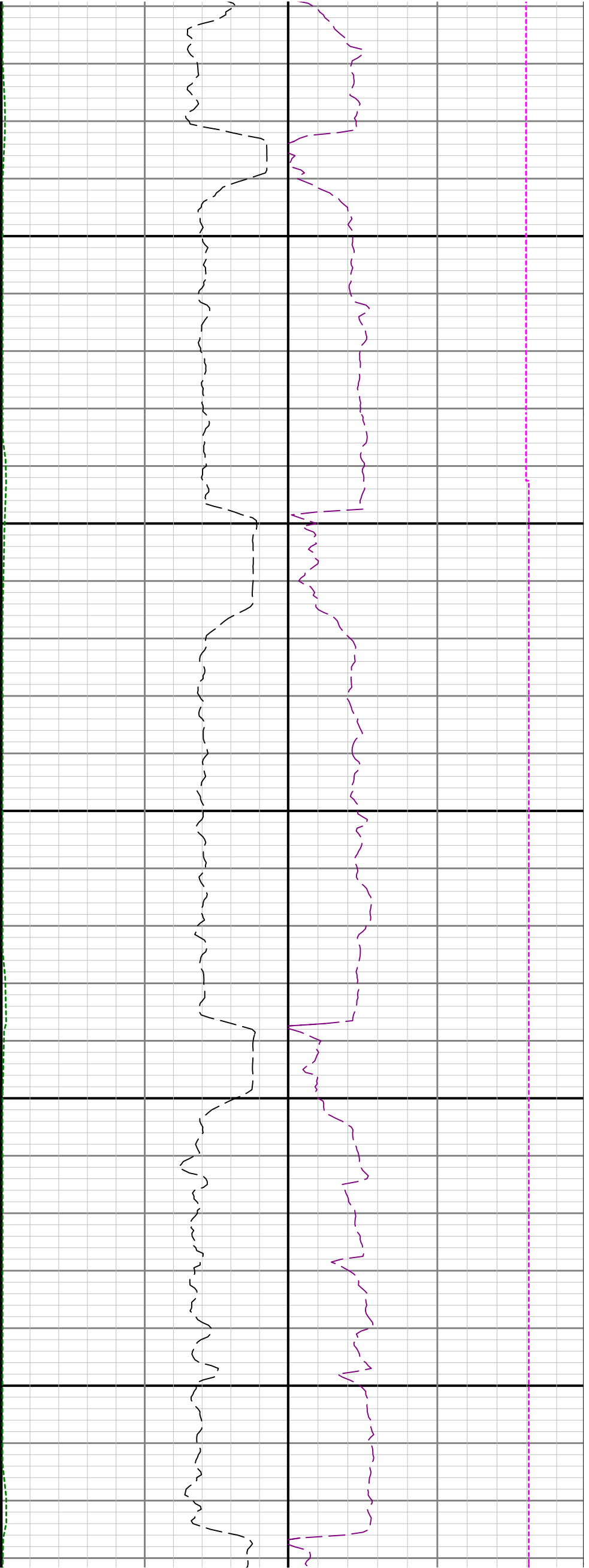
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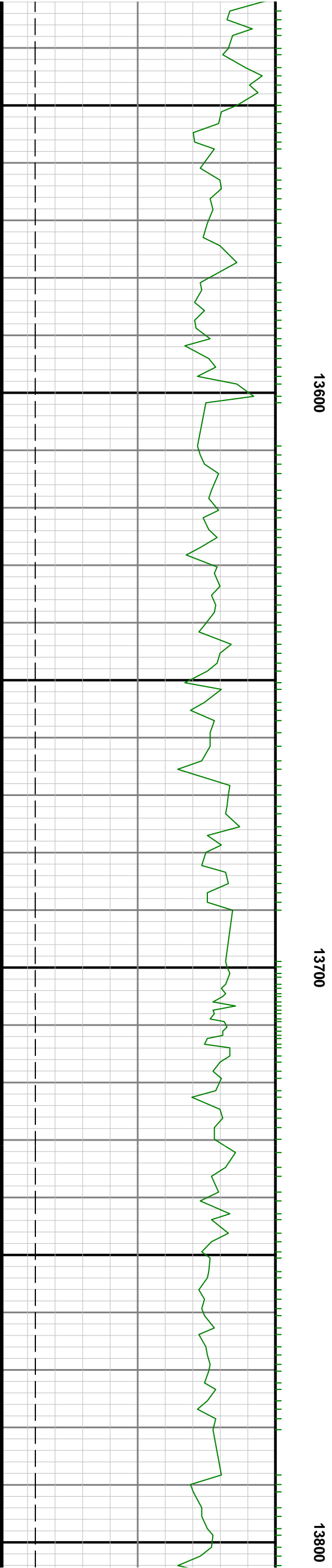
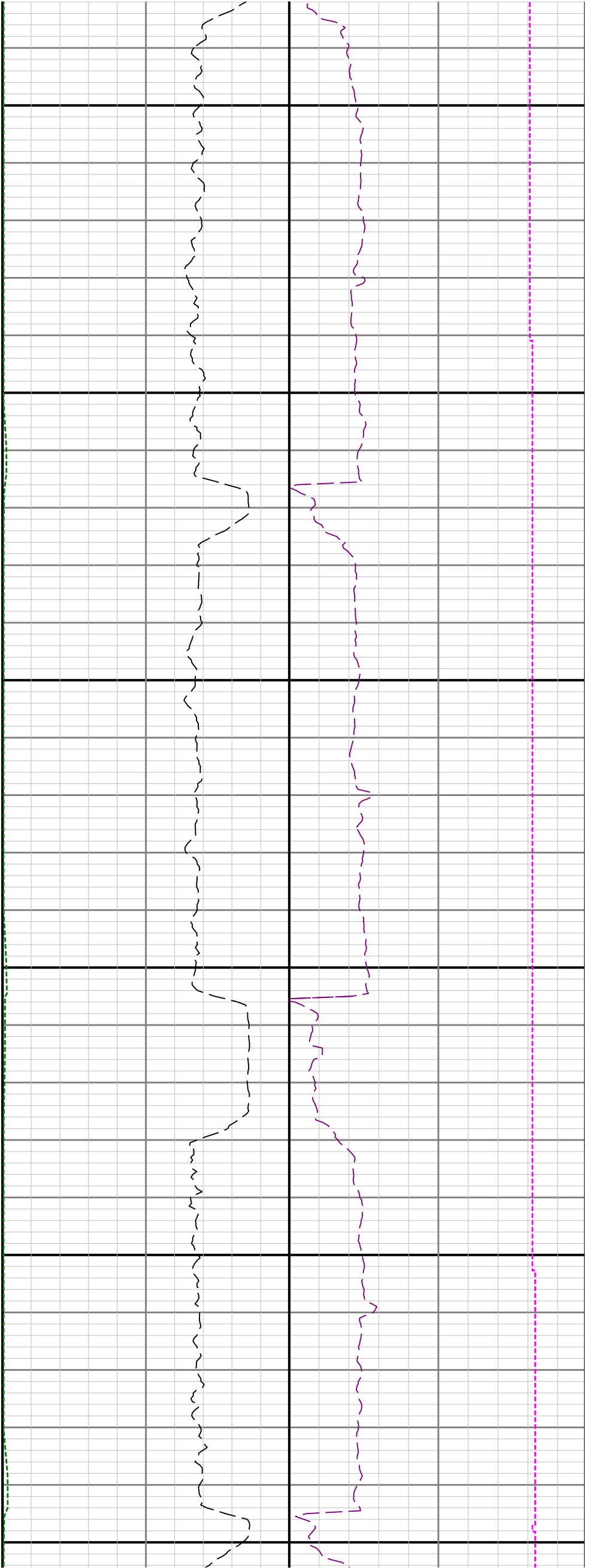
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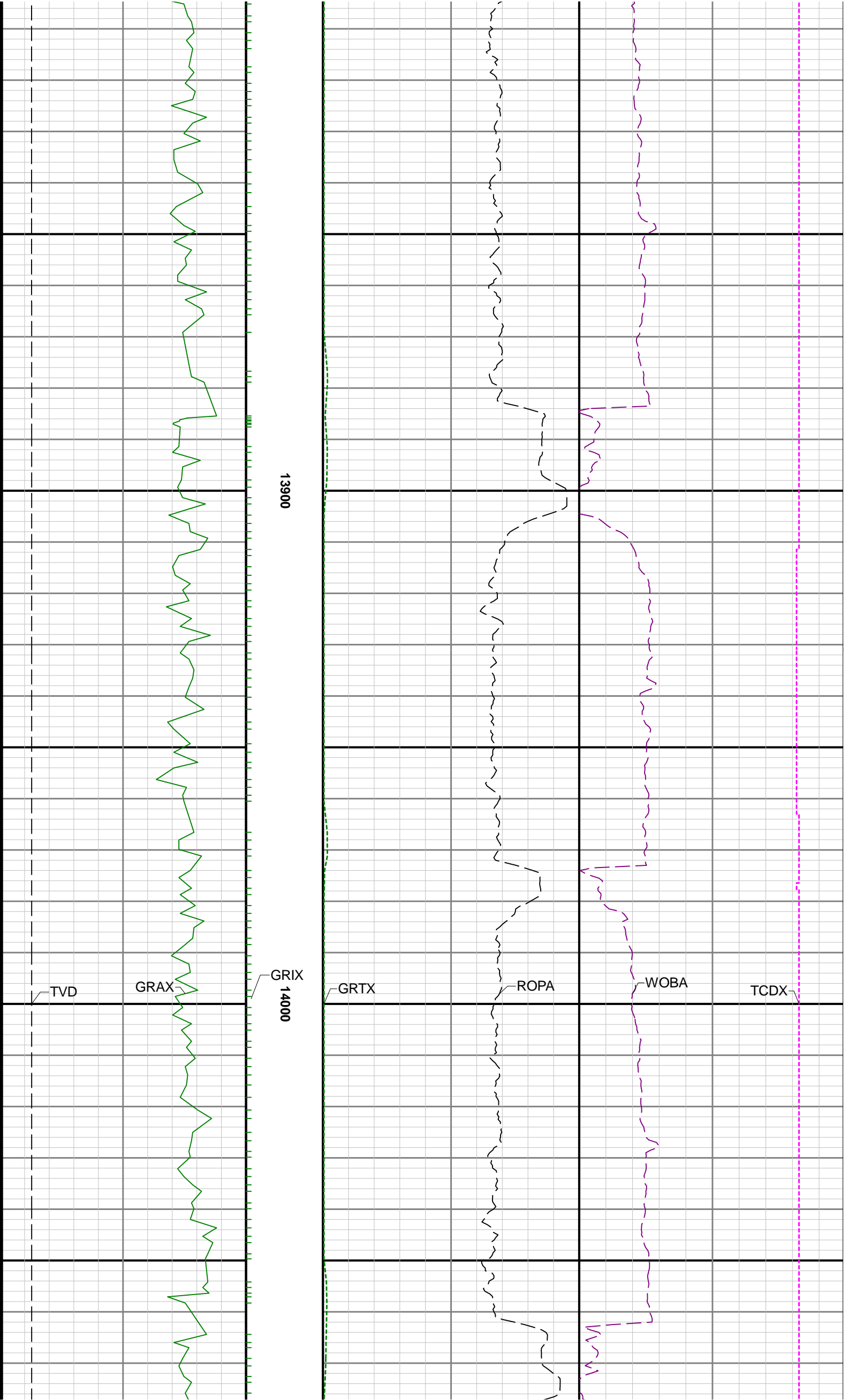


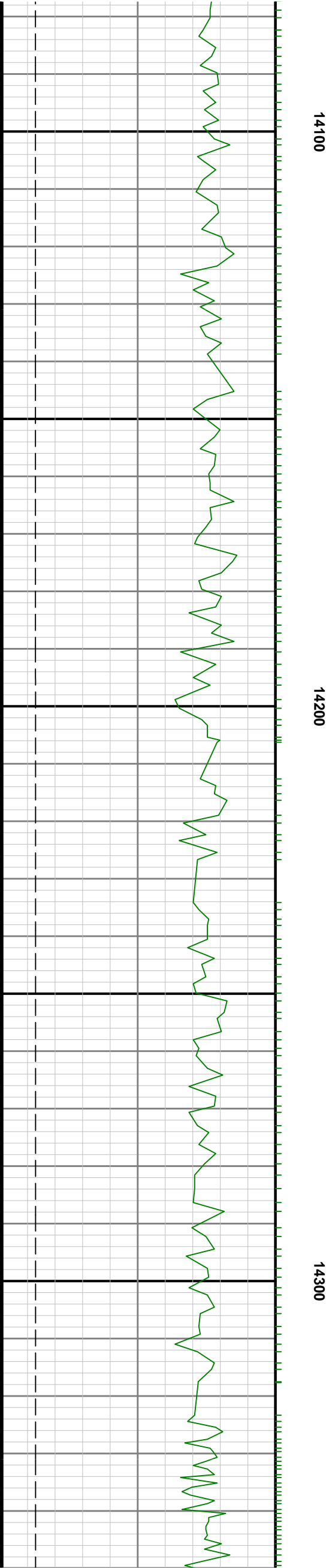
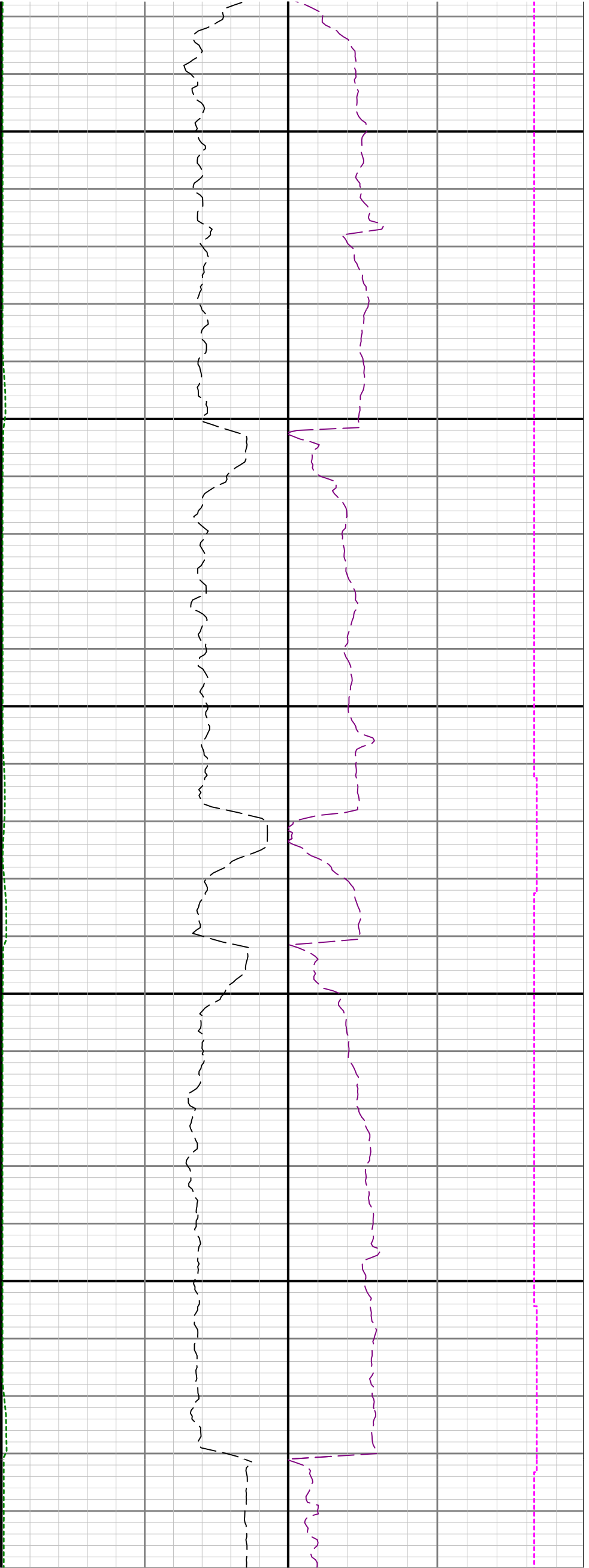


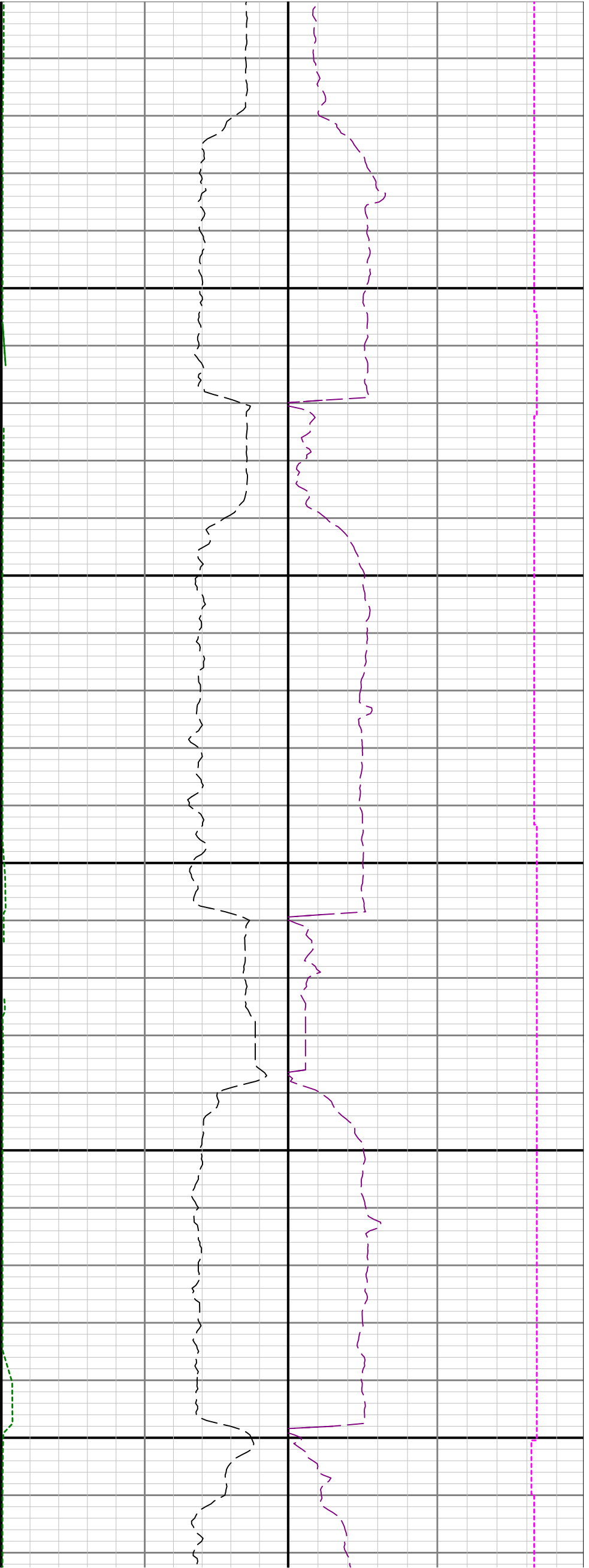








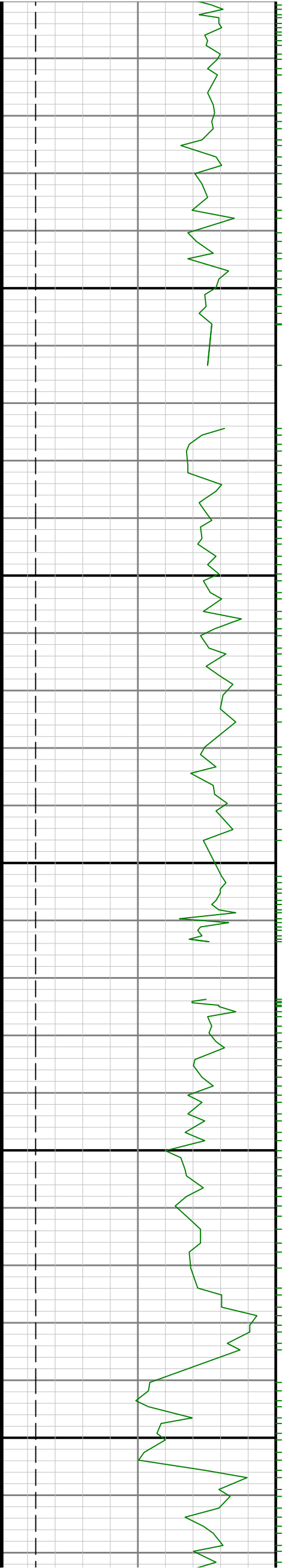


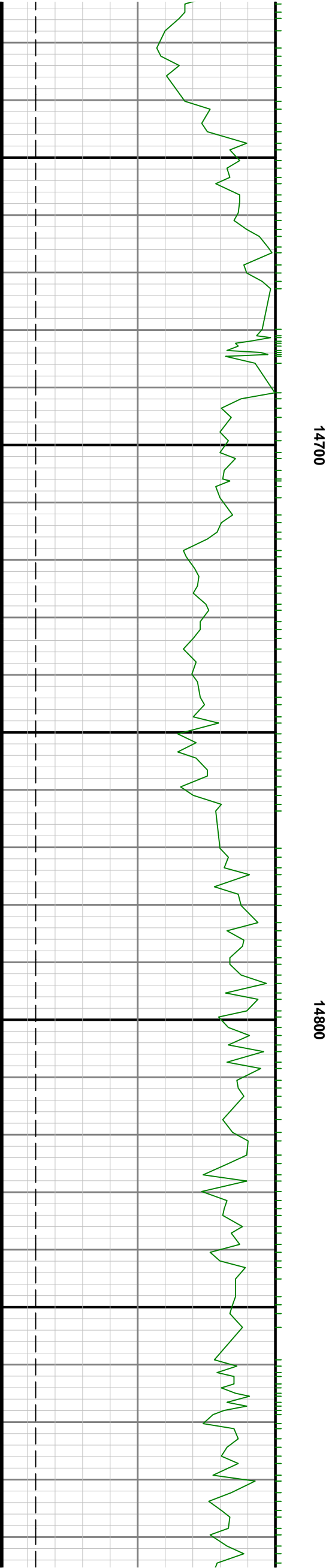
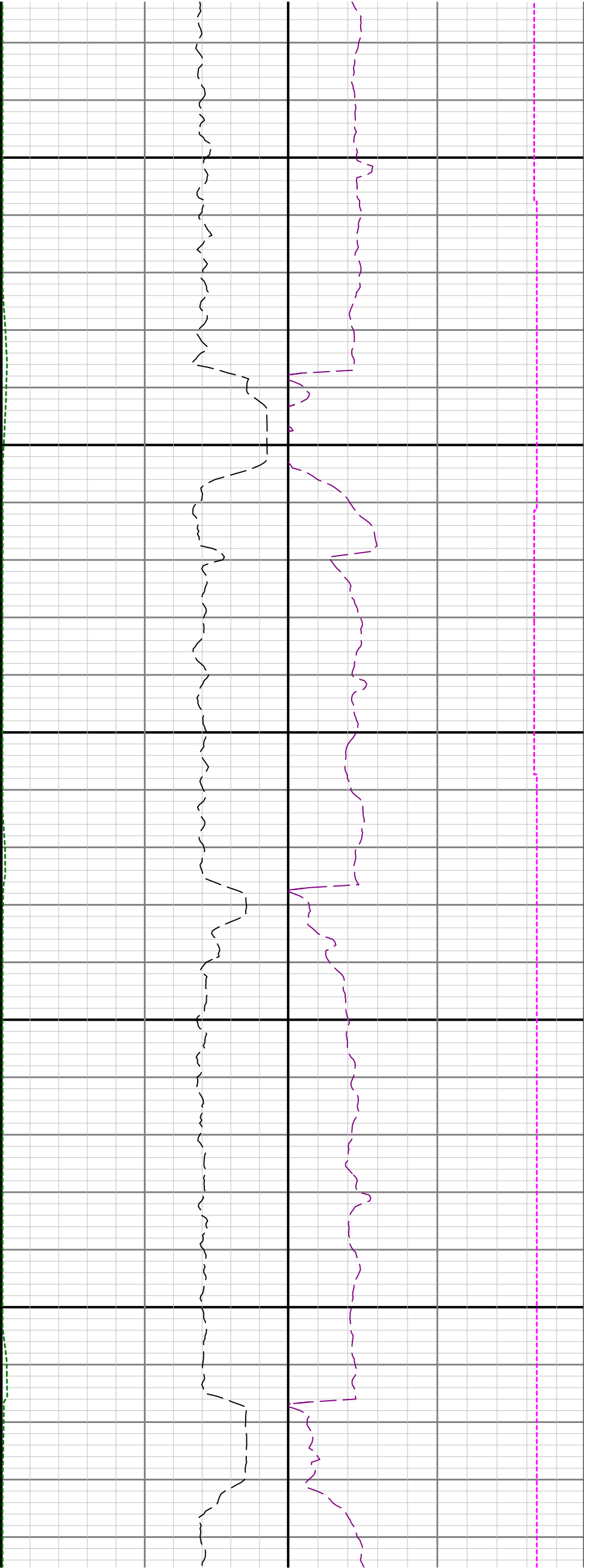


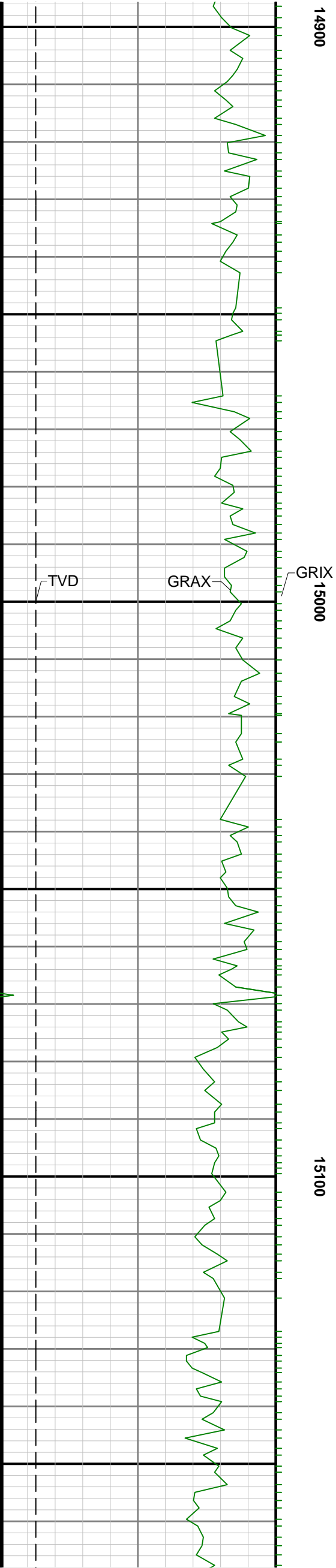
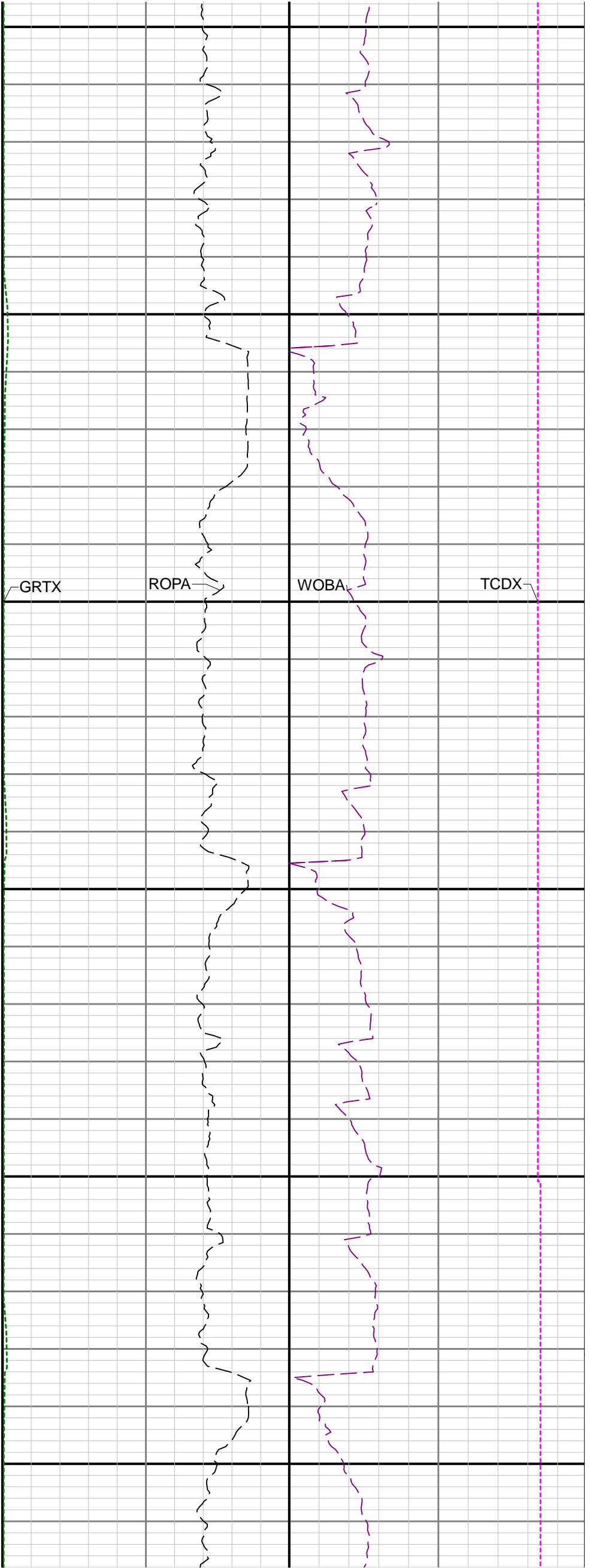
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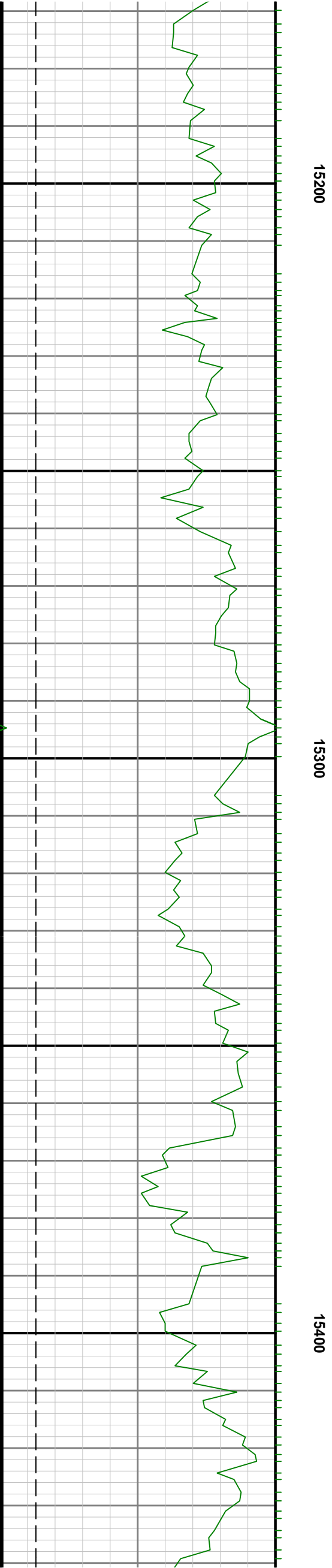
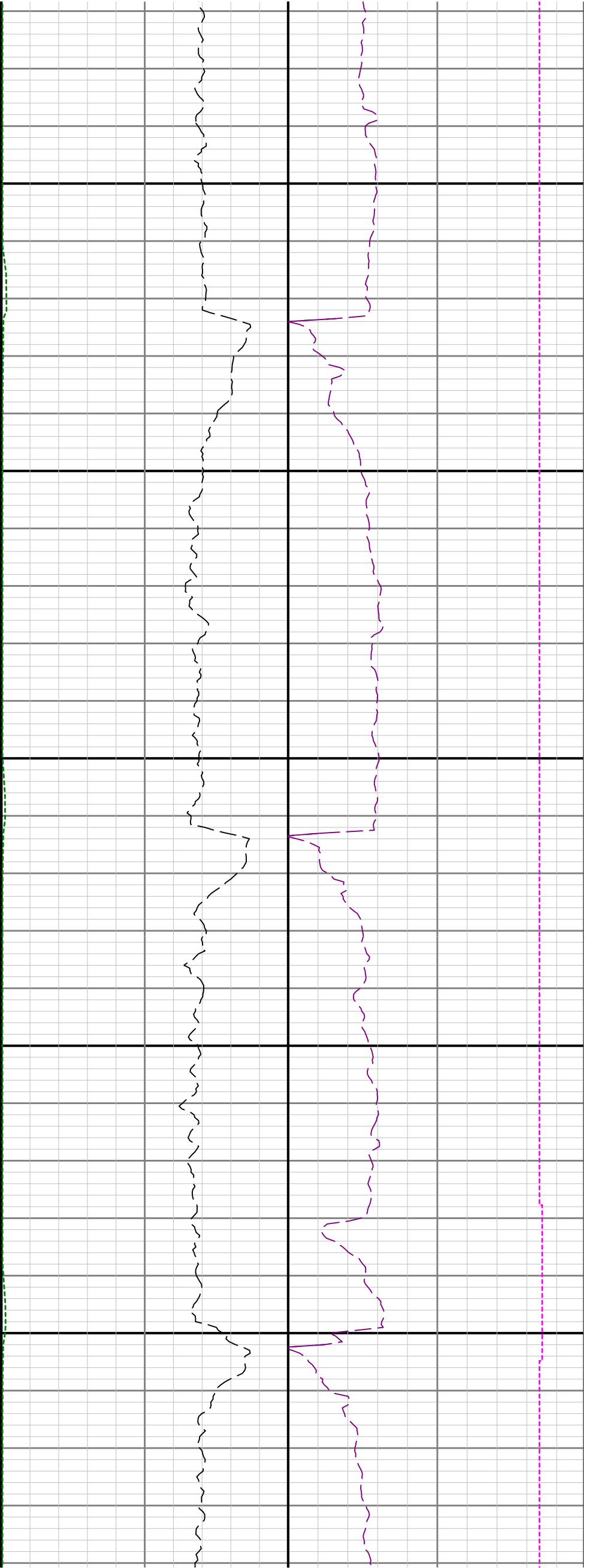
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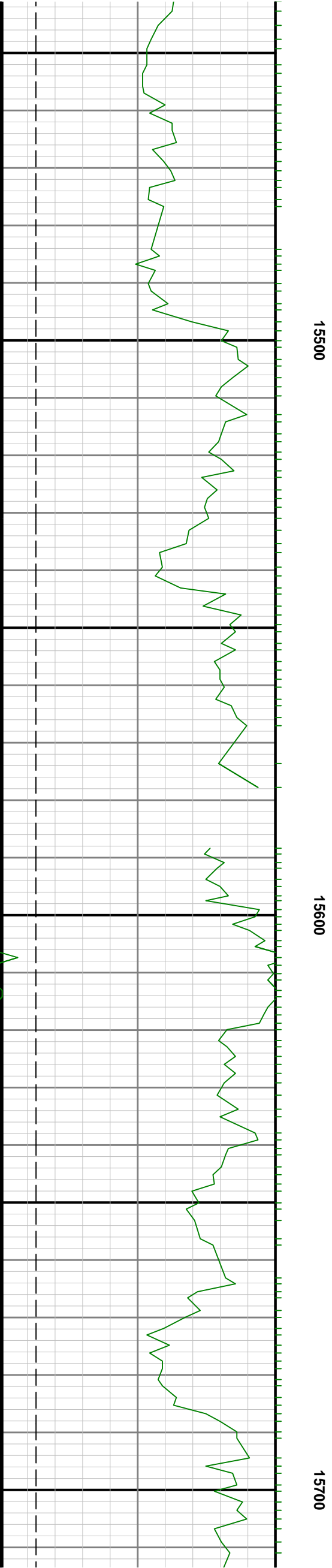
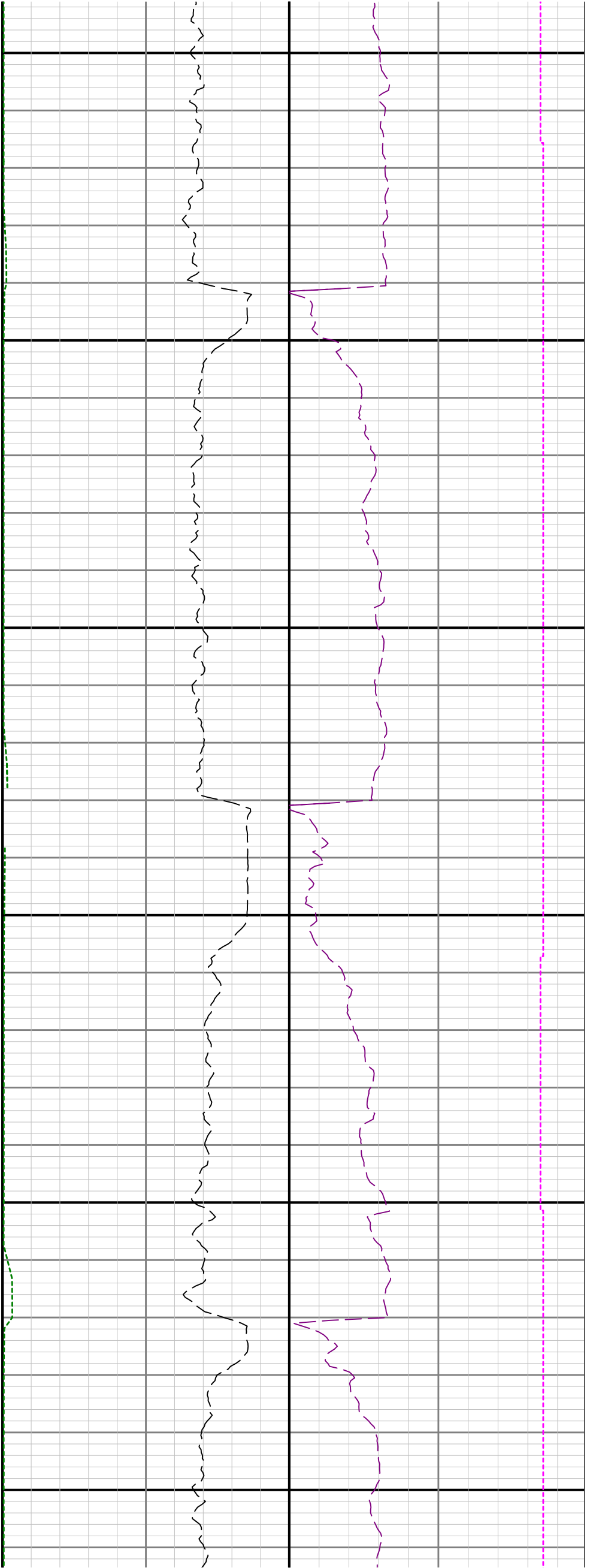
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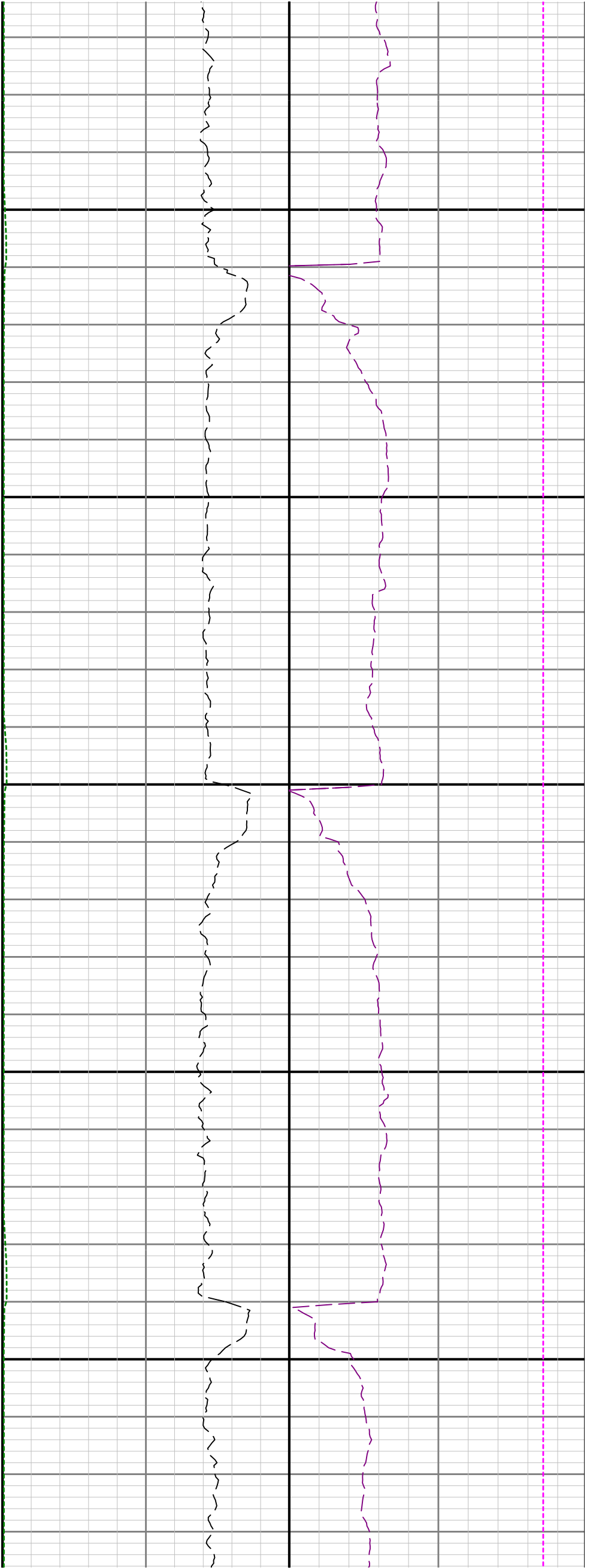






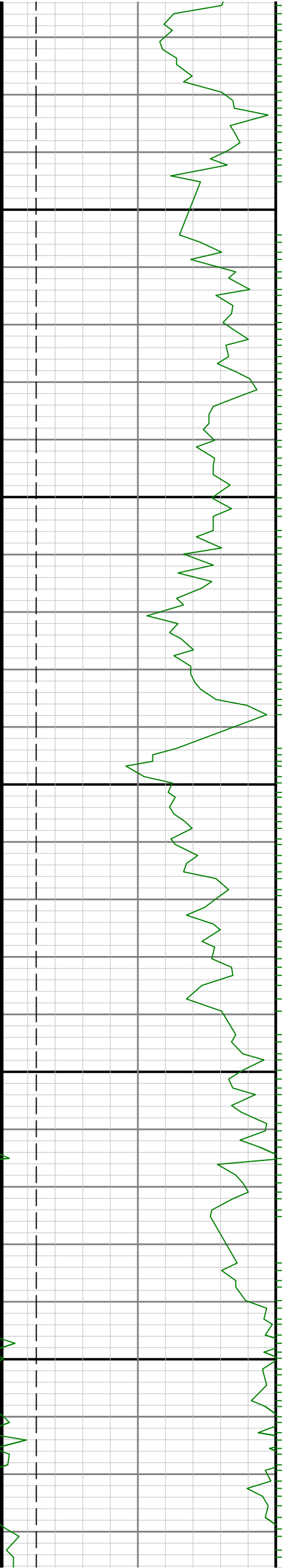


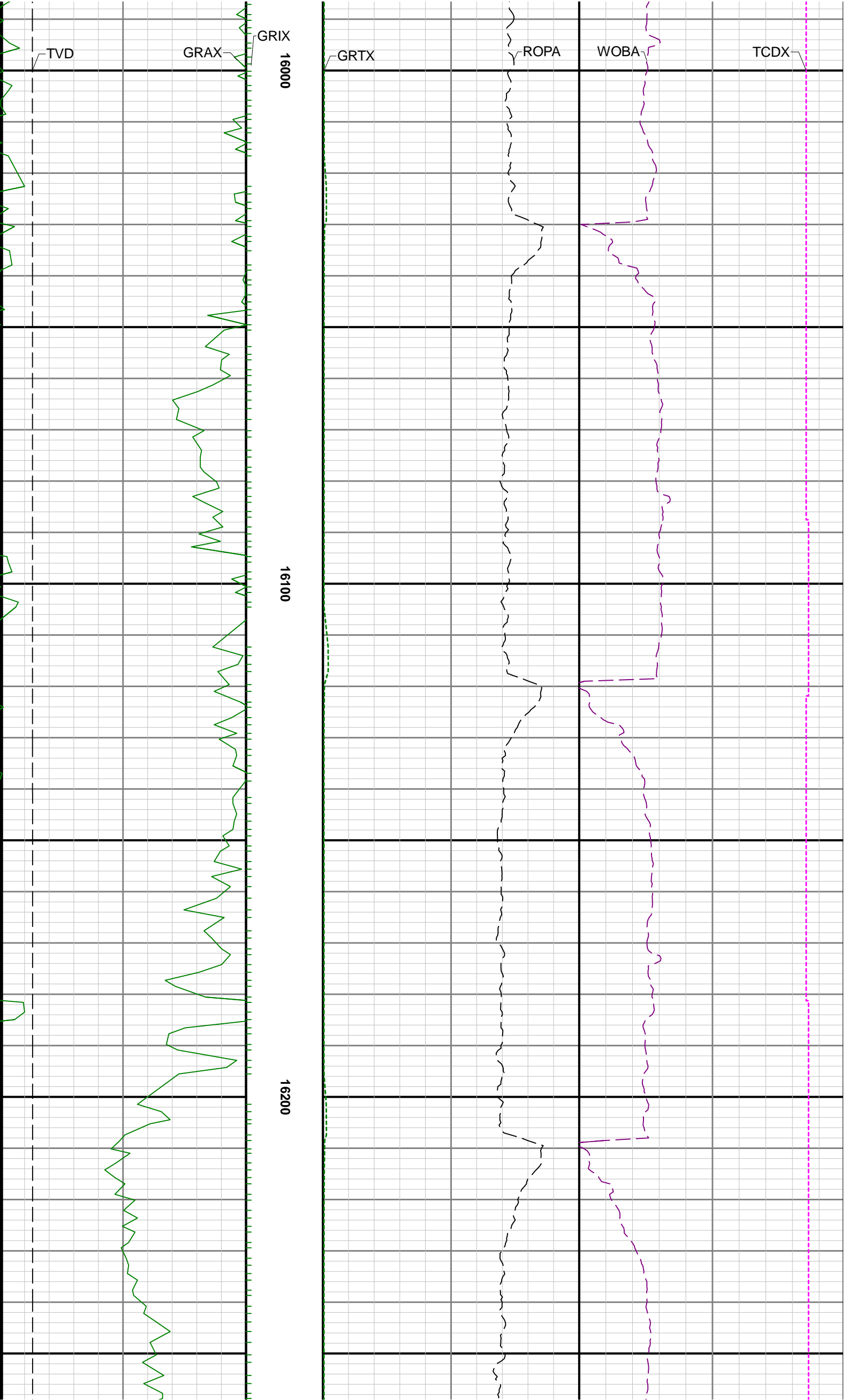


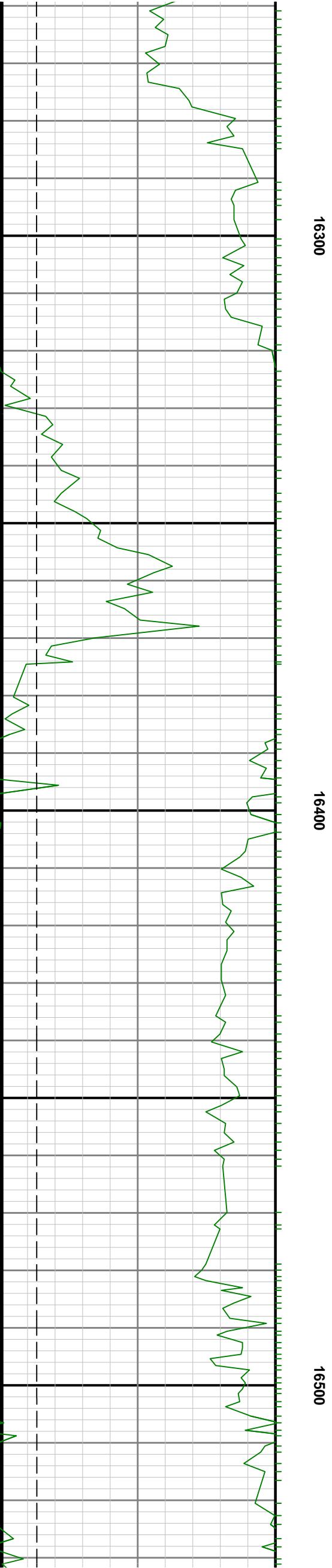
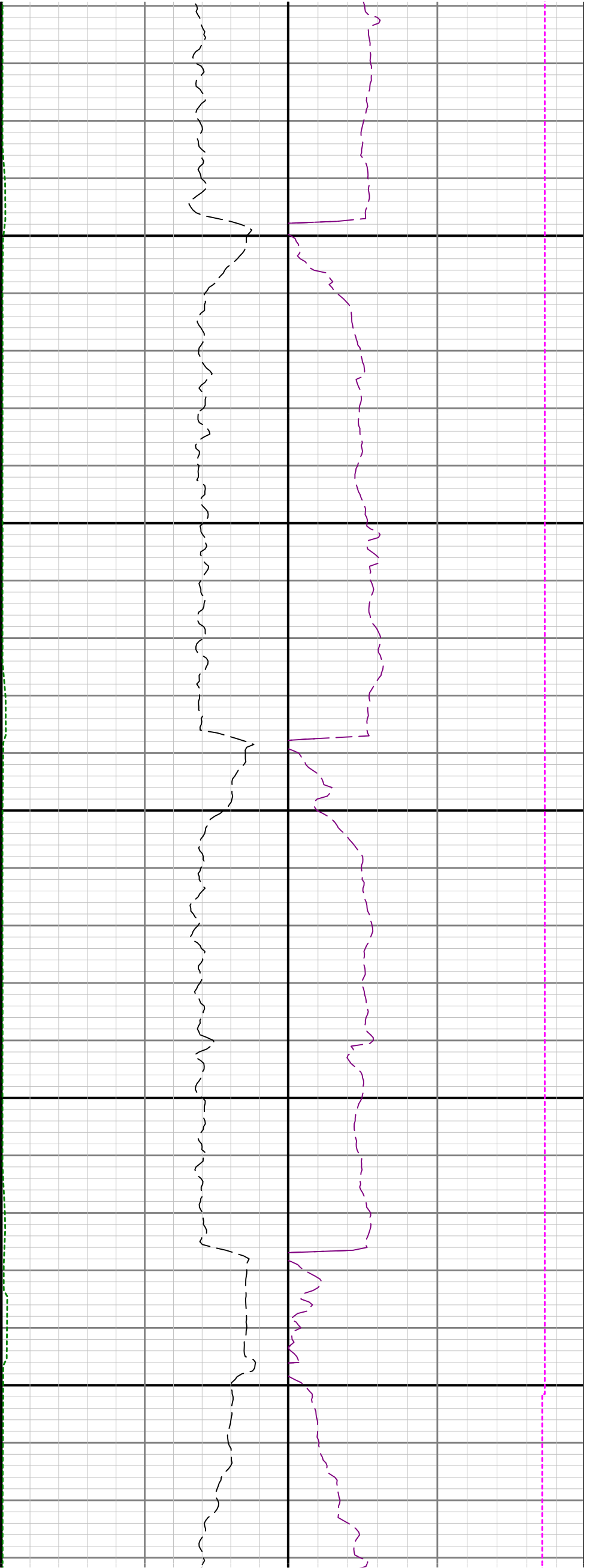


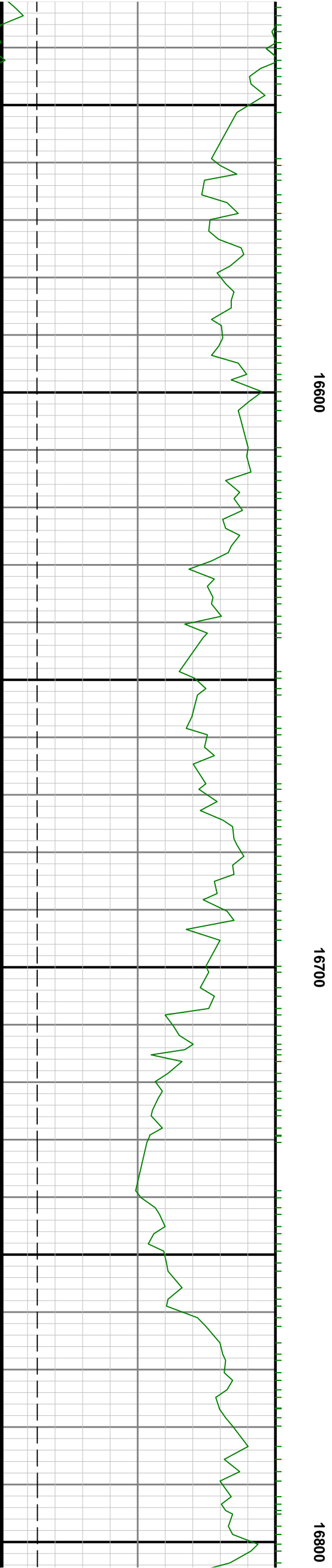
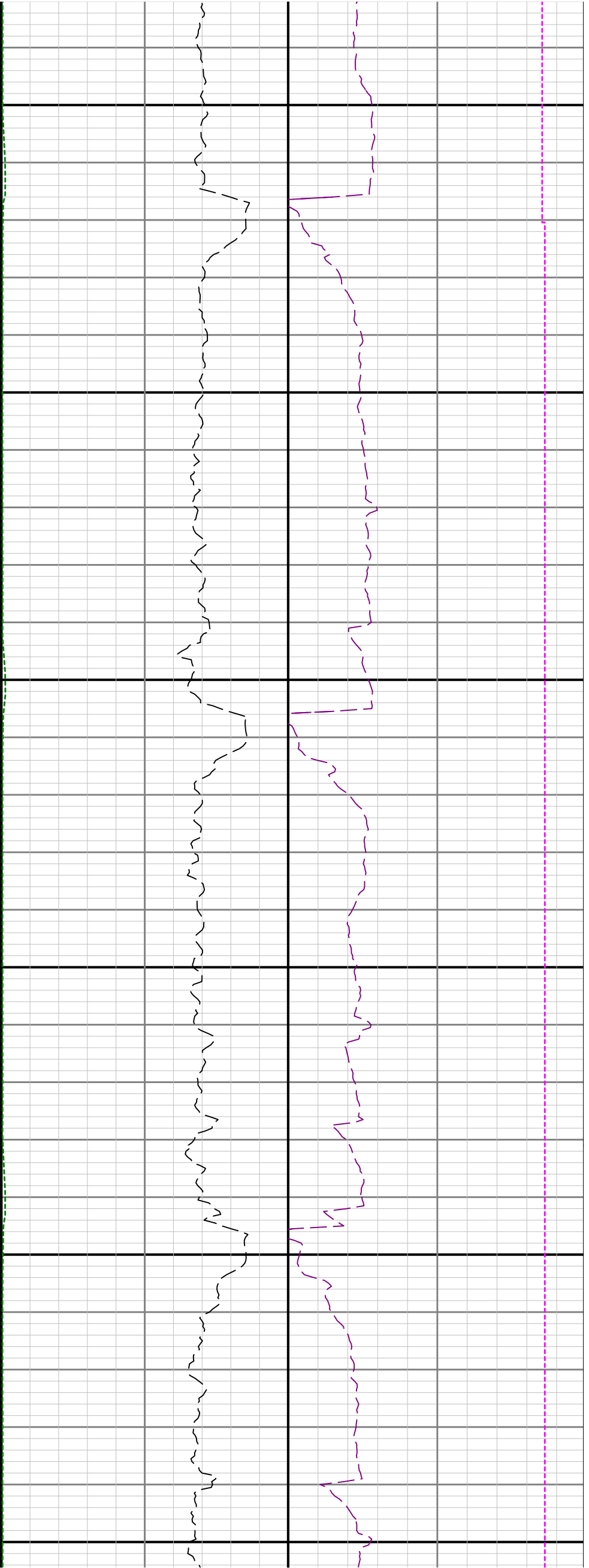
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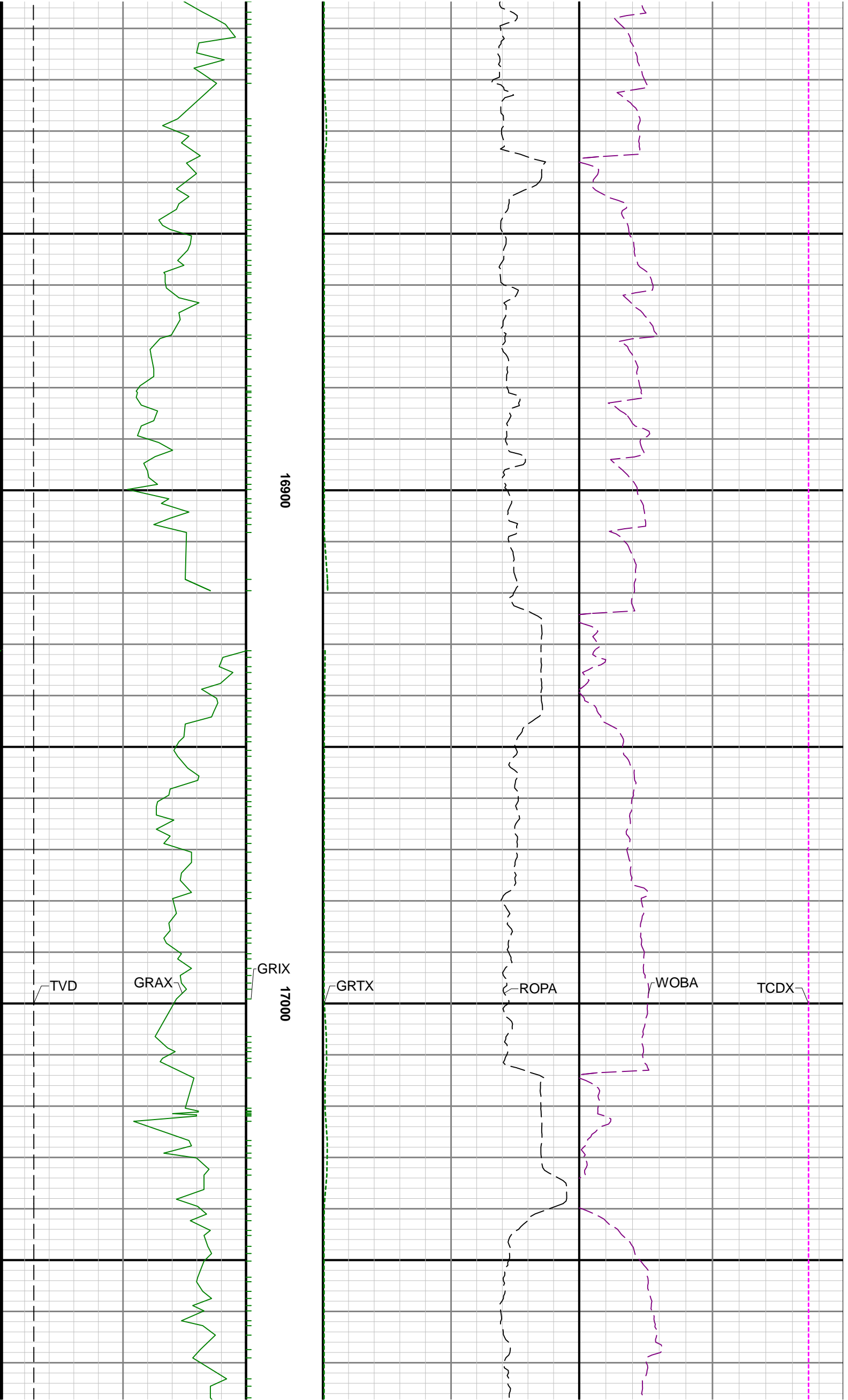
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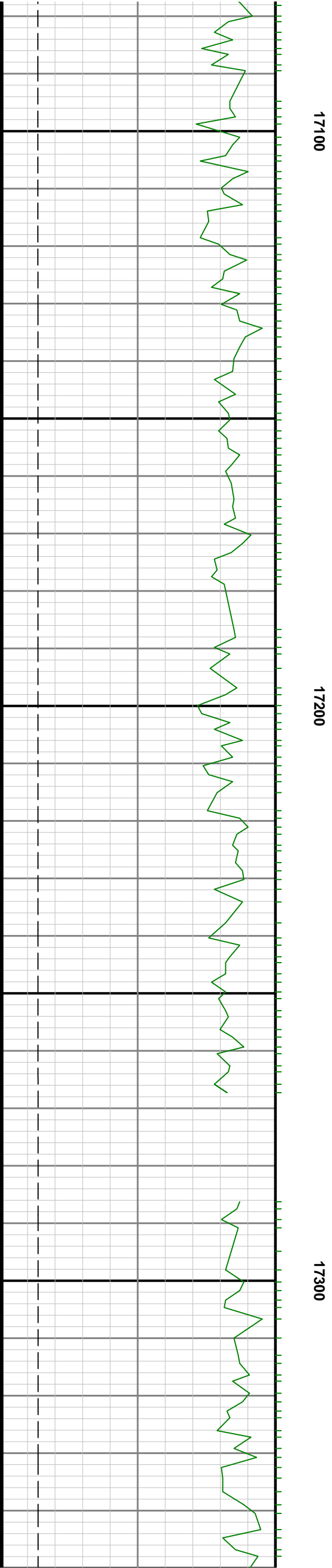
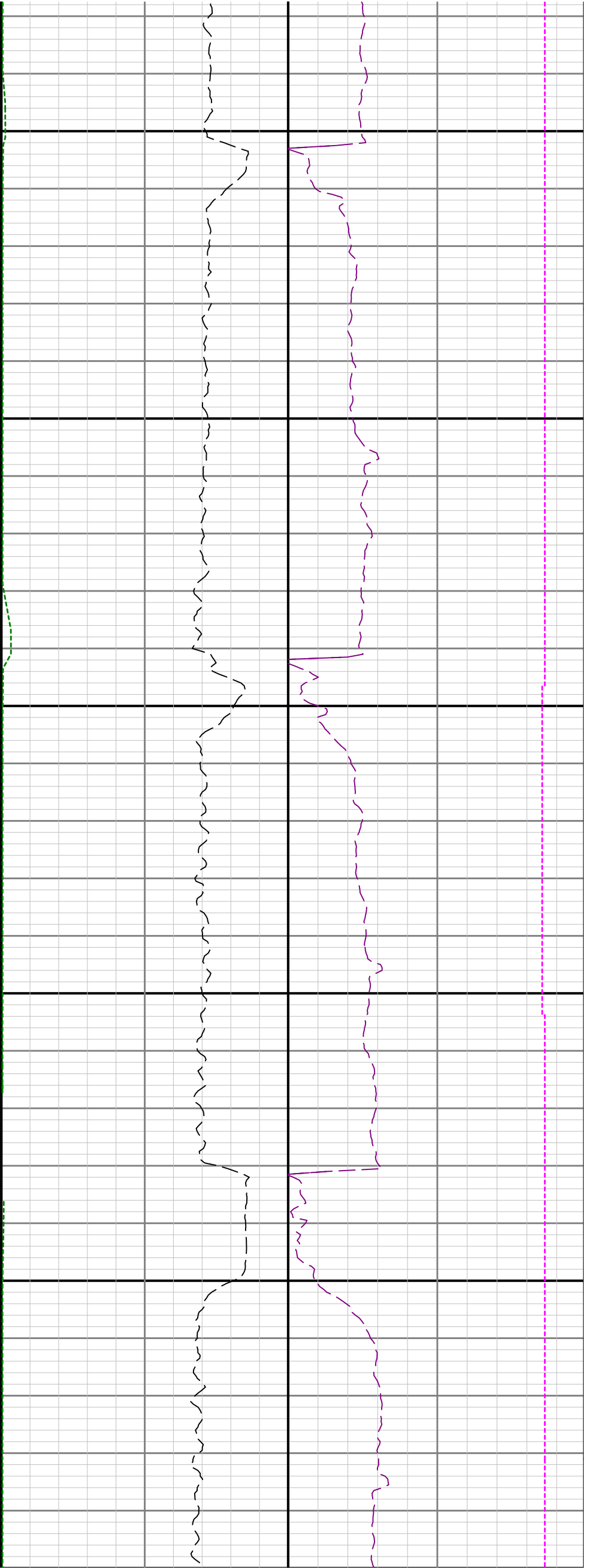


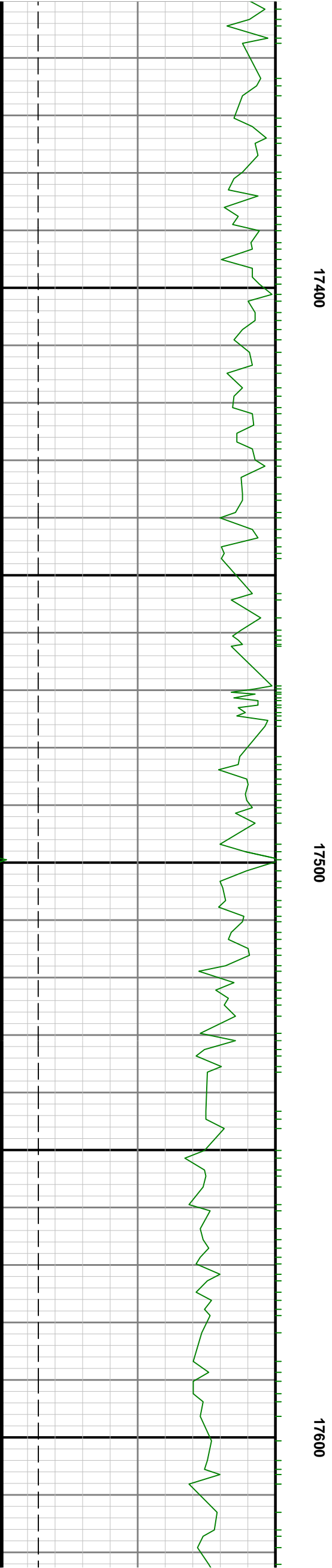
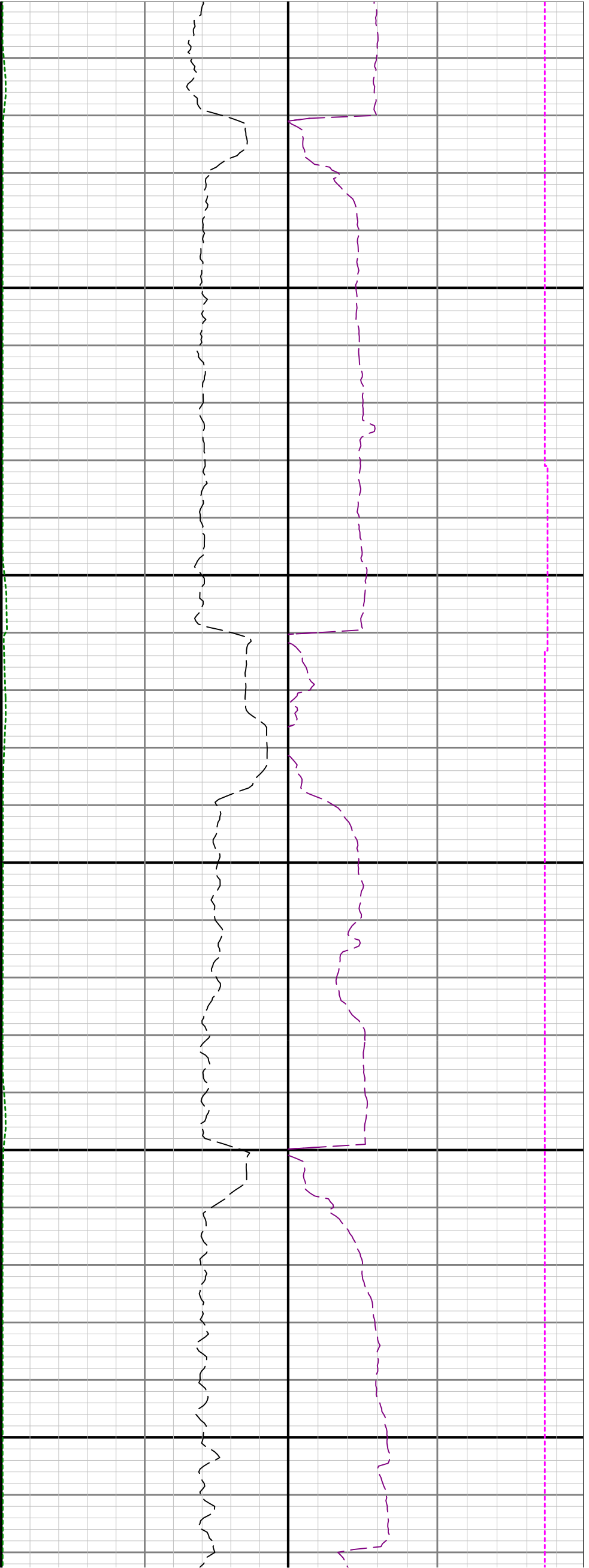


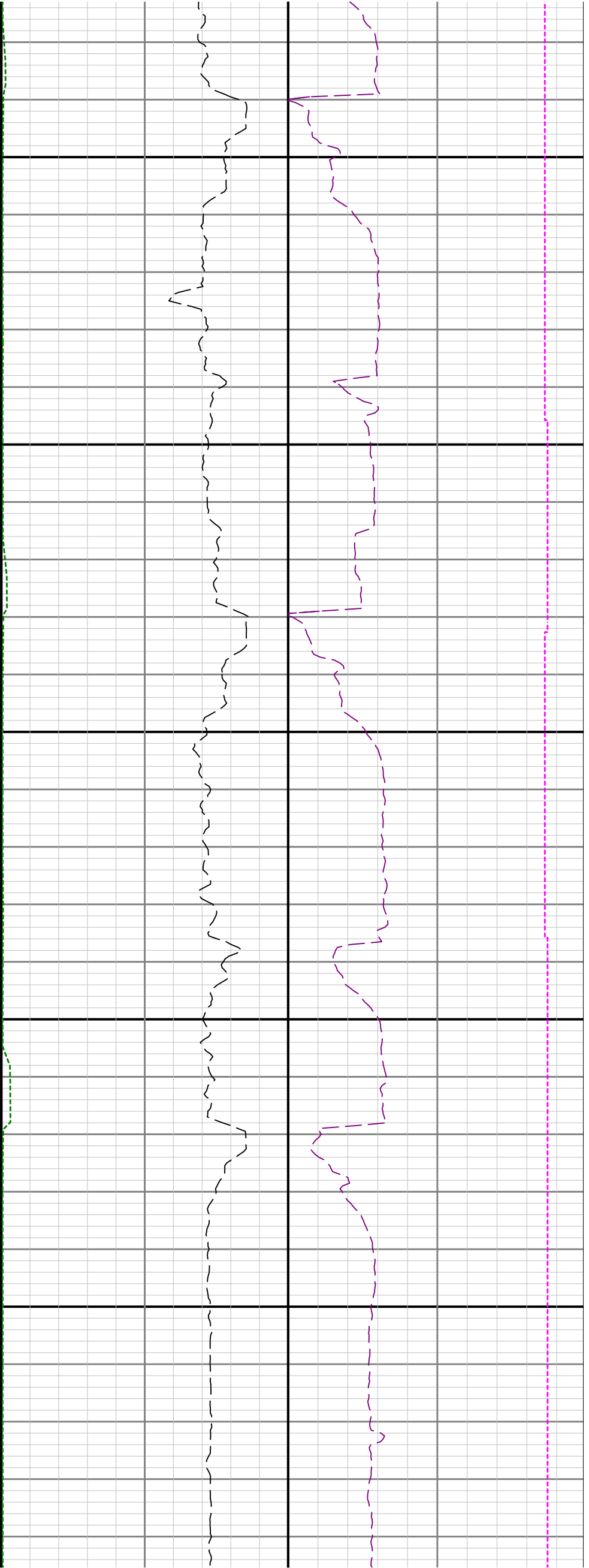












17700

17800

