



part of Baker Hughes. Unless other contract terms have been agreed to by the parties, each party's liabilities and obligations shall be limited to the amount of cash or other assets that the party has on hand at the time of the breach of this agreement.

### 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	13.500	PDC	4.00	Steerable	28.39	1847.03	76.00	1894.64	2015-06-05 12:40	2015-06-06 01:50	9.70
2	2	7.875	PDC	2.00	Steerable	1853.01	12967.41	1894.64	13009.04	2015-07-03 14:12	2015-07-05 23:20	51.49

### Crew

Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite	Name	Arrive Wellsite	Depart Wellsite
Andrew Overbey	2015-06-05	2015-06-06	Marchus Boucher	2015-06-05	2015-06-06	Andrew Overbey	2015-07-03	2015-07-07
Matt Leopold	2015-07-03	2015-07-07						

### 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+ (%)
2015-07-04 18:00	2	8165.14	Water Based Mud	9.2	57	-	0.0	66.9/33.1	Flow Line	63000	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	12235767	Gamma (single)	11.51	47.61	6.750	3.375
1	NaviGamma	12235767	VSS	14.88	50.98	6.750	3.375
1	NaviGamma	12235767	Directional (mag)	14.88	50.98	6.750	3.375
2	NaviGamma	13312569	Gamma (single)	10.65	41.63	6.500	3.440
2	NaviGamma	13312569	Directional (mag)	14.07	45.05	6.500	3.440
2	NaviGamma	13312569	VSS	14.07	45.05	6.500	3.440

### Comments

- Baker Hughes INTEQ run 1 utilized a 6.75 inch NaviGamma (Directional and Gamma Ray) tool ran behind an 13.5 inch bit with a steerable assembly from 0 to 1891 feet MD (0 to 1778 feet TVD).
- Baker Hughes INTEQ run 2 utilized a 6.5 inch NaviGamma (Directional and Gamma Ray) tool ran behind an 7.875 inch bit with a steerable assembly from 1891 to 13009 feet MD (1778 to 7156 feet TVD).
- A sliding indicator is shown on the left side of track 1 as a heavy line. The indicator has been shifted to the Gamma Ray sensor offset to correspond with Gamma

Logging interval is shown on the left side of track 1 as a heavy line. The indicator has been drilled 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	6600.00	7.875	2	The interval from surface to 6600 feet MD (0 to 6397 feet TVD) was not logged due to directional only services provided through the vertical.
2	12968.00	7.875	2	The interval from 12967 to 13009 feet MD (7157 to 7156 feet TVD) has no GRAX, GRTX or GRIX due to Gamma Ray sensor offset to bit.

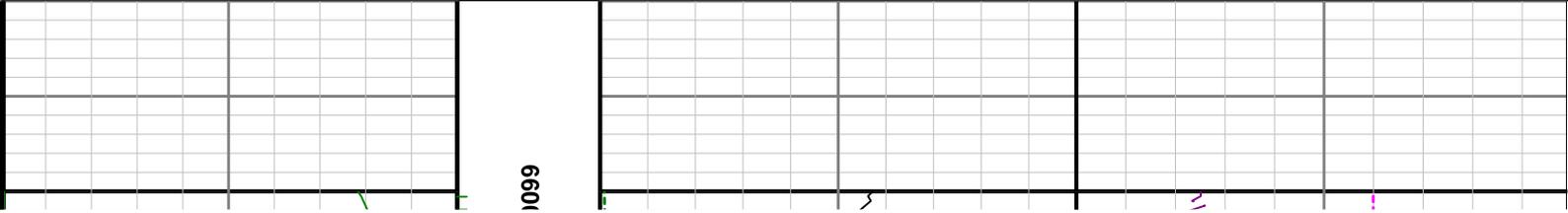
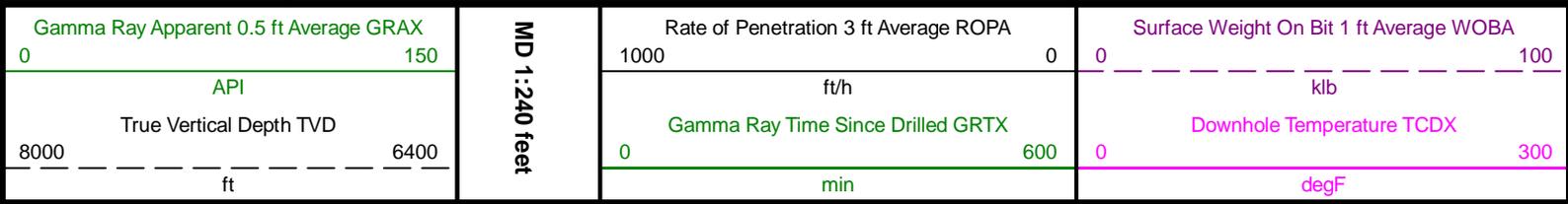
**Curve Mnemonics**

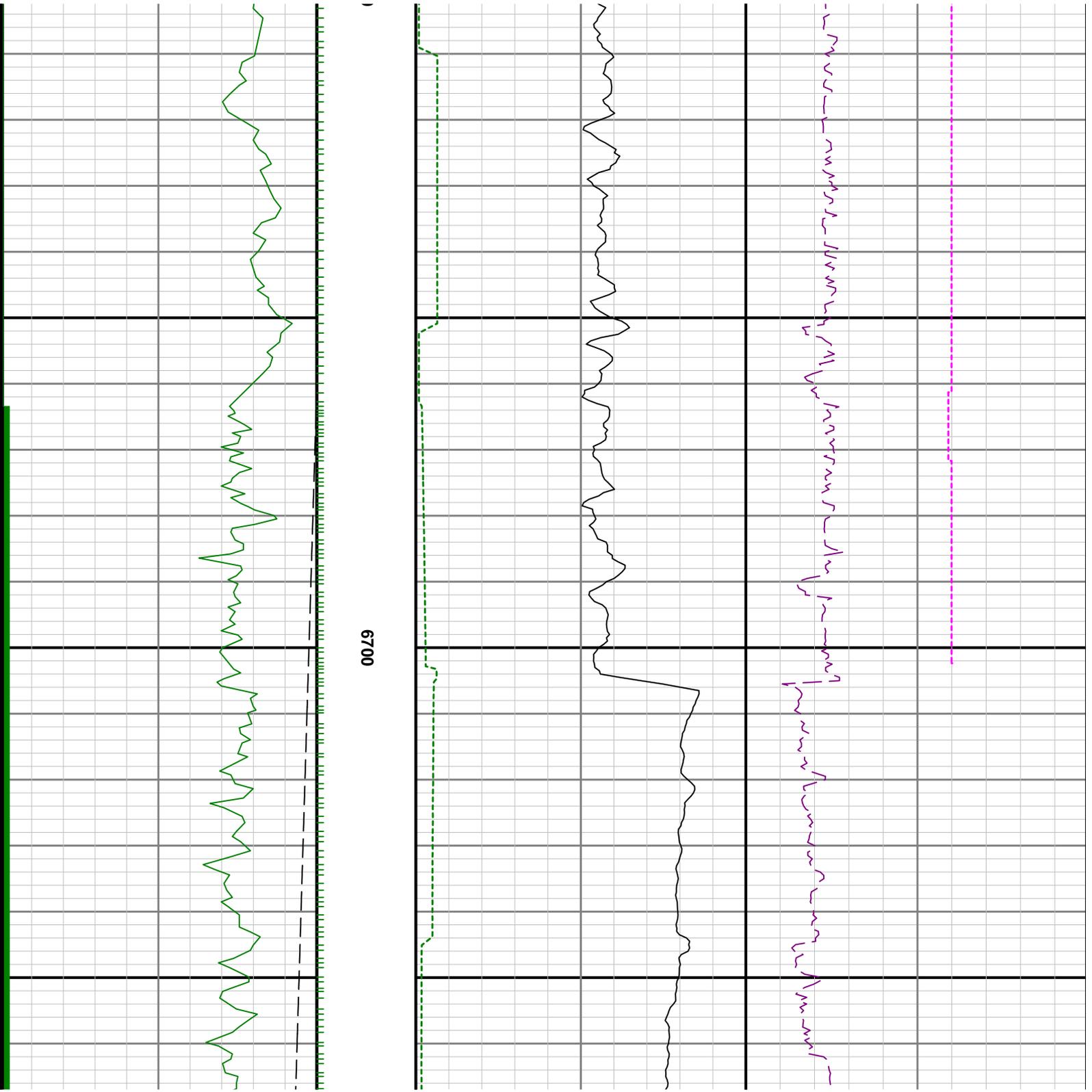
Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
GRAX	Gamma Ray - Apparent 0.5 ft Average	API
GRIX	Gamma Ray - Data Point Indicator	unitless
GRTX	Gamma Time Since Drilled	min
GRSI	Sliding Indicator Flag	unitless
TCDX	Downhole Temperature	degF
TVD	True Vertical Depth	ft
WOBA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

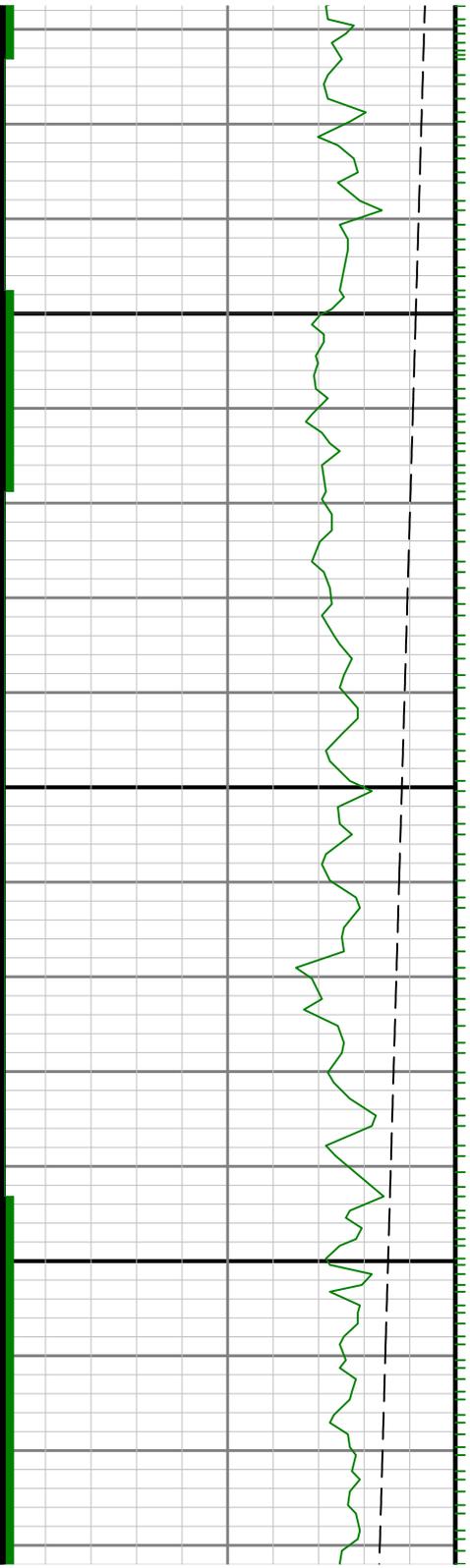
	<b>Company</b>	Anadarko		
	<b>Well</b>	English Farms 36N-8HZ		
	<b>Interval</b>	<b>Date From:</b> 2015-07-04 08:10	<b>Top:</b> 6600.00	
	<b>Created</b>	<b>Date To:</b> 2015-07-05 23:20	<b>Bottom:</b> 13009.00	
		<b>Created</b> 2015-07-06 00:56		

**Source** **Description**

**F\_ORIG.** ORIG.:R001-R002

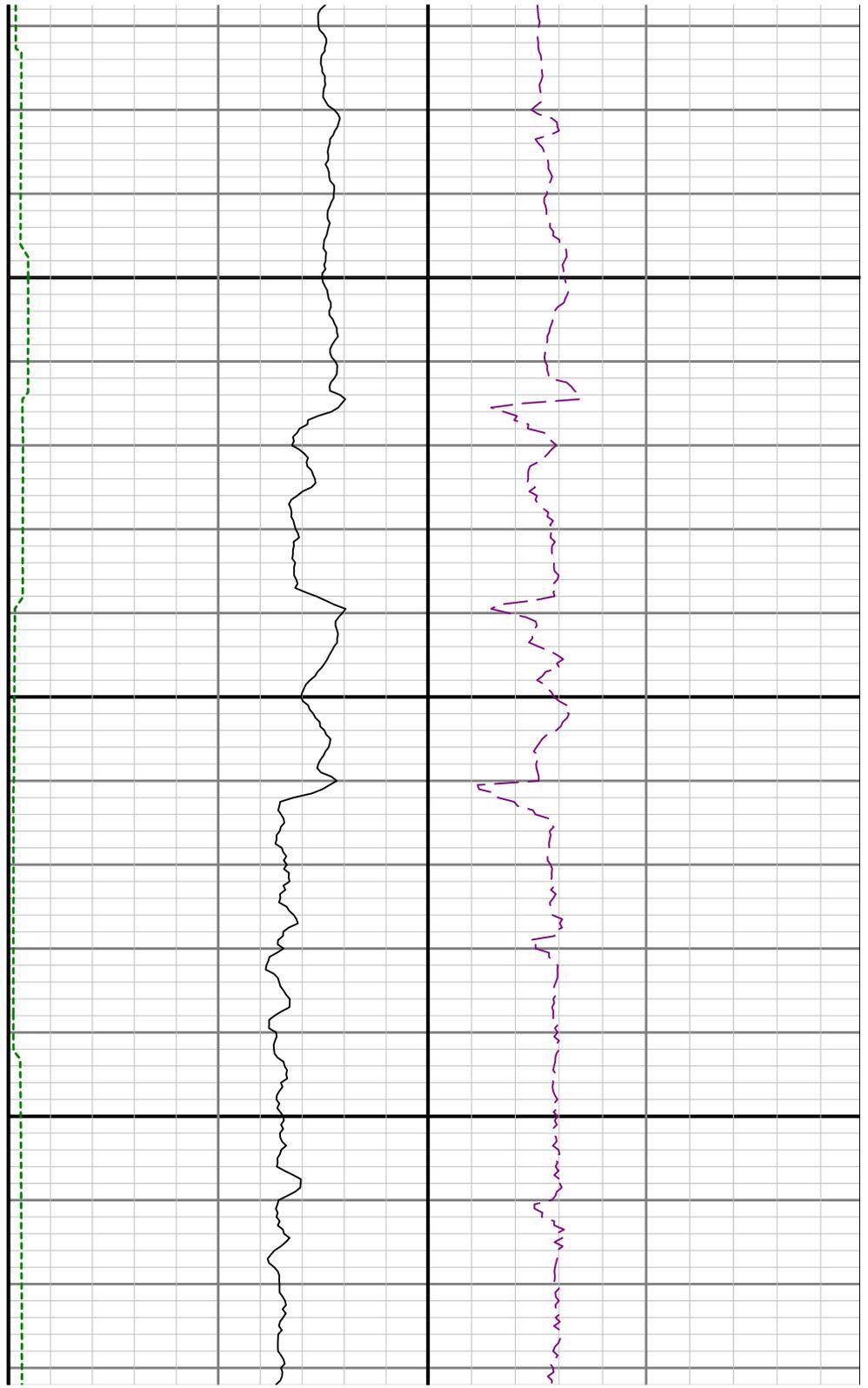


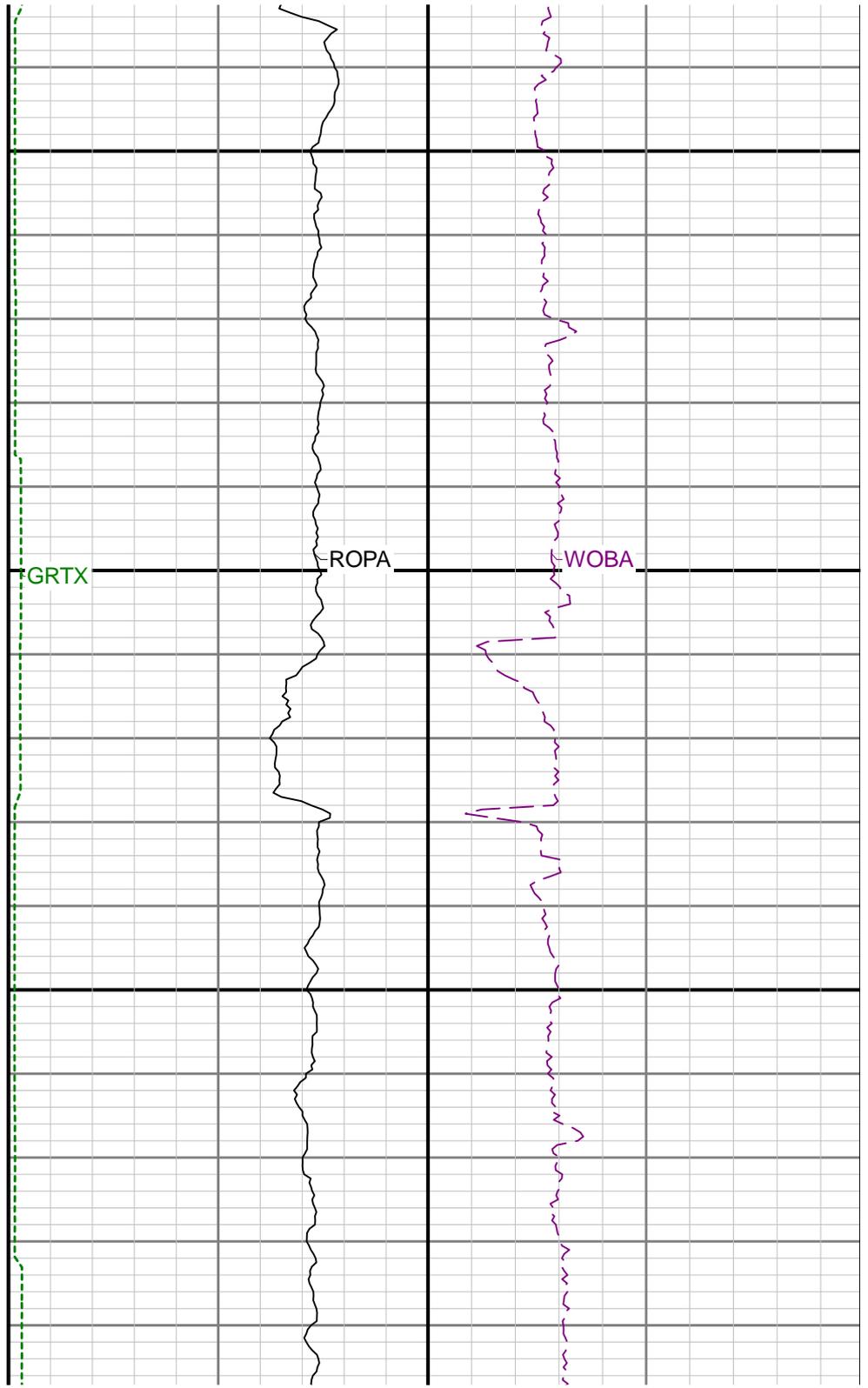
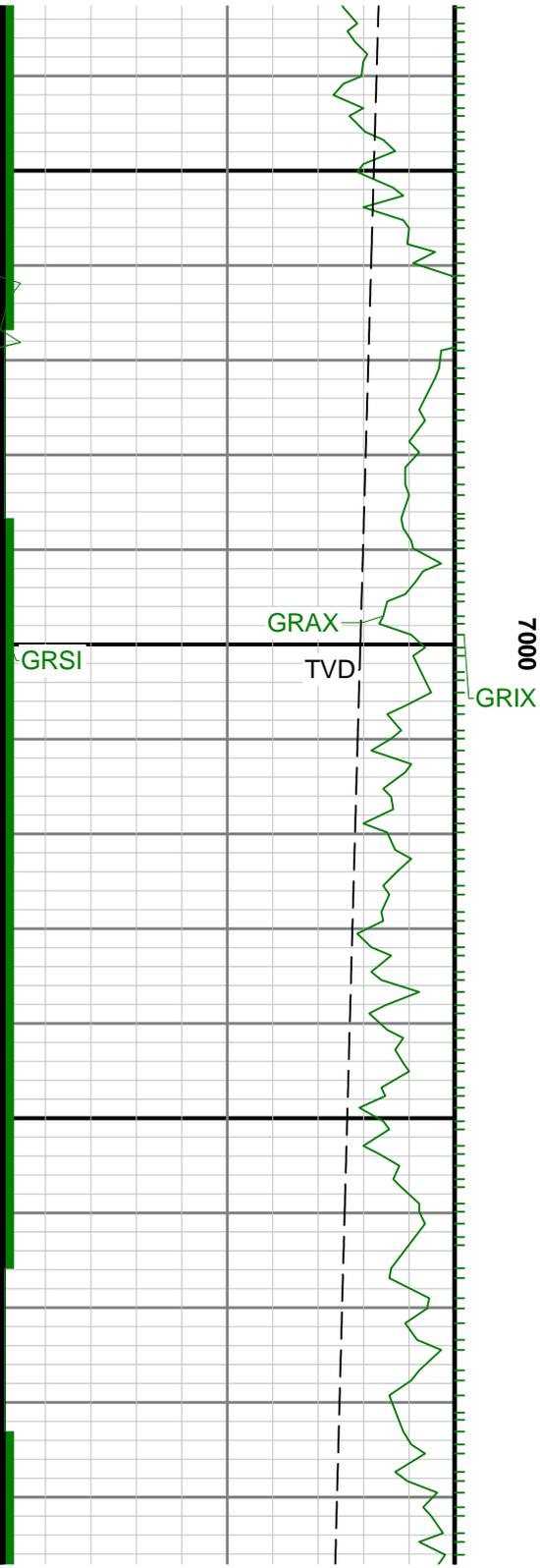


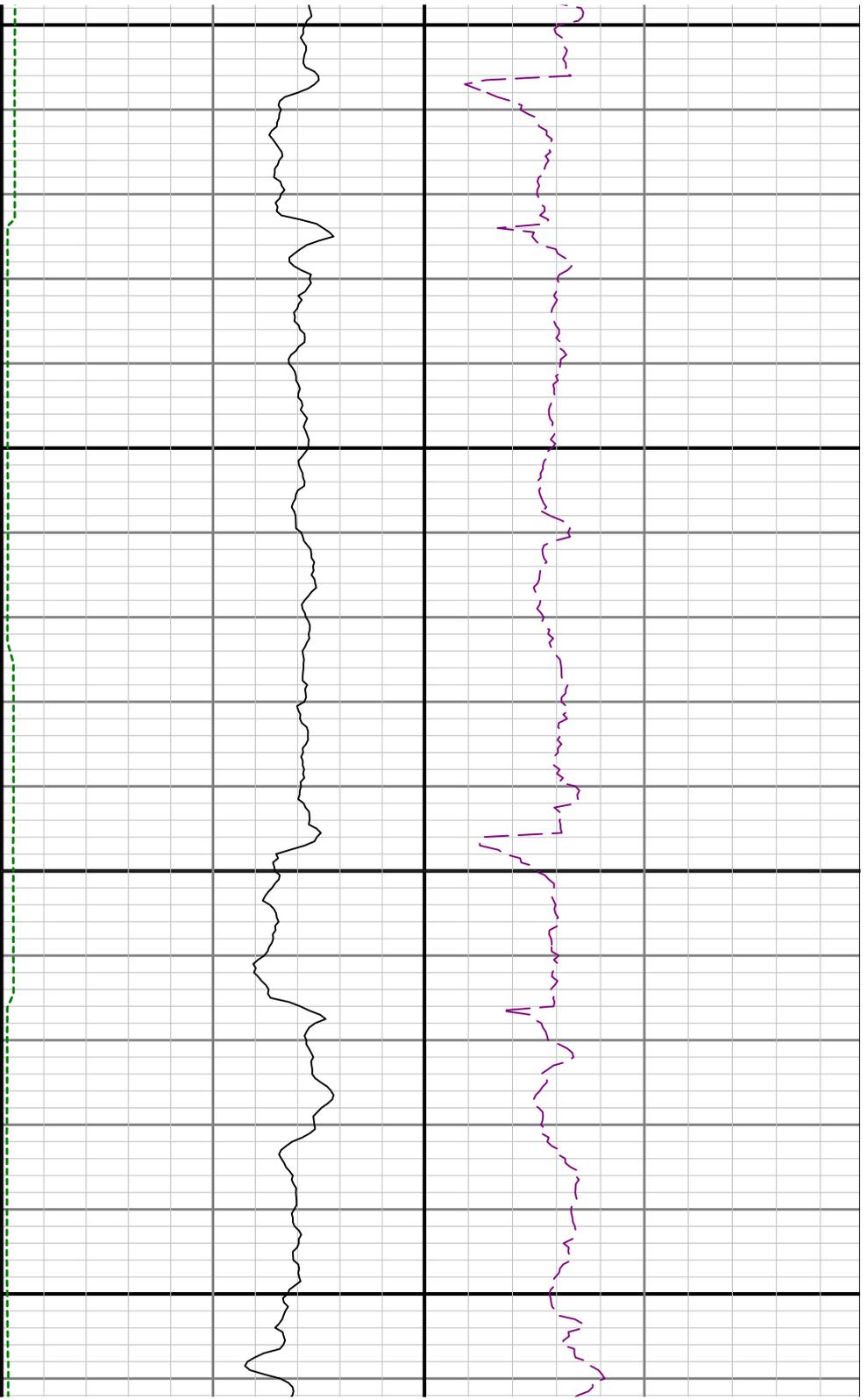


6900

0089

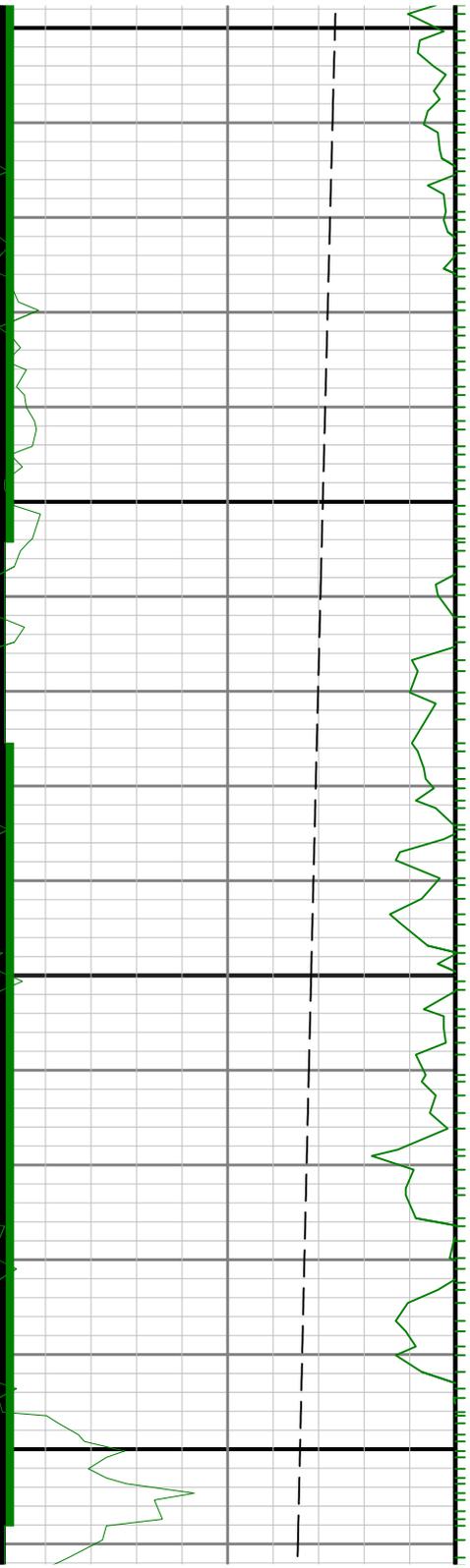


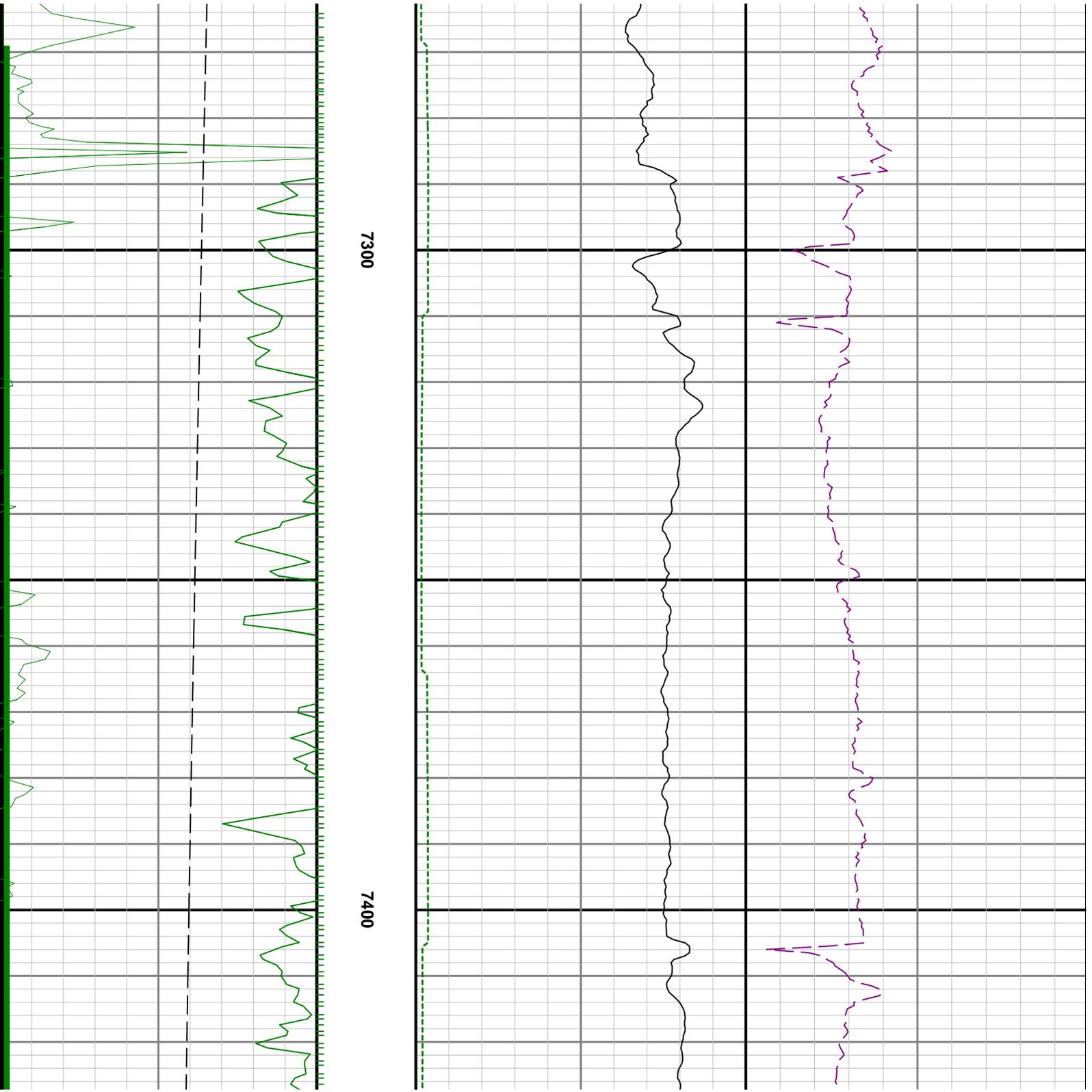


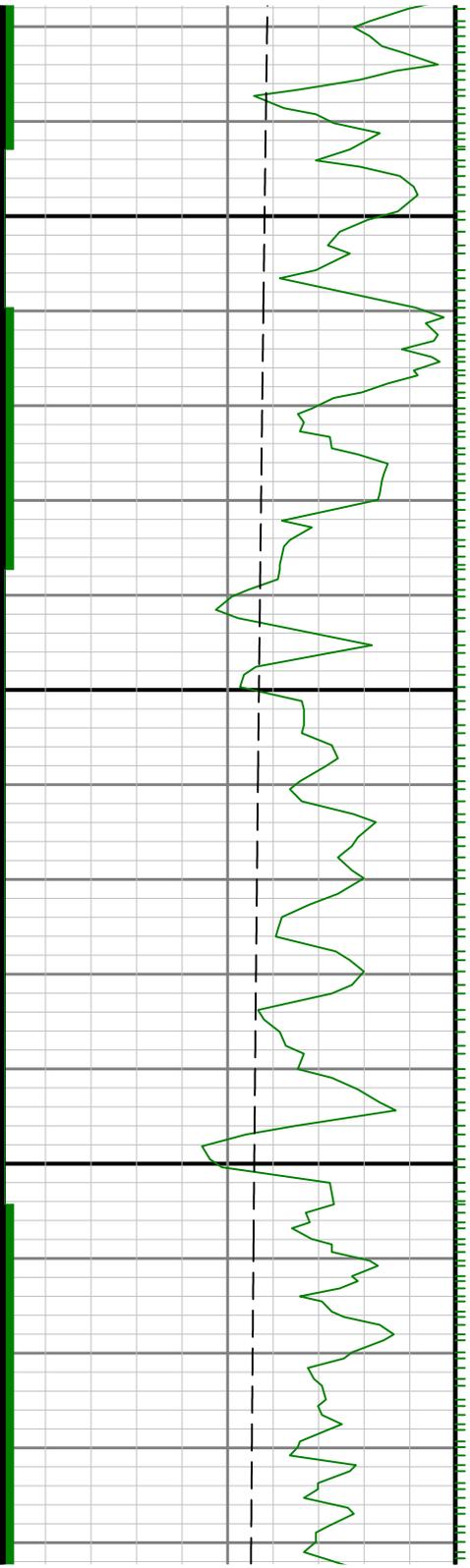


7100

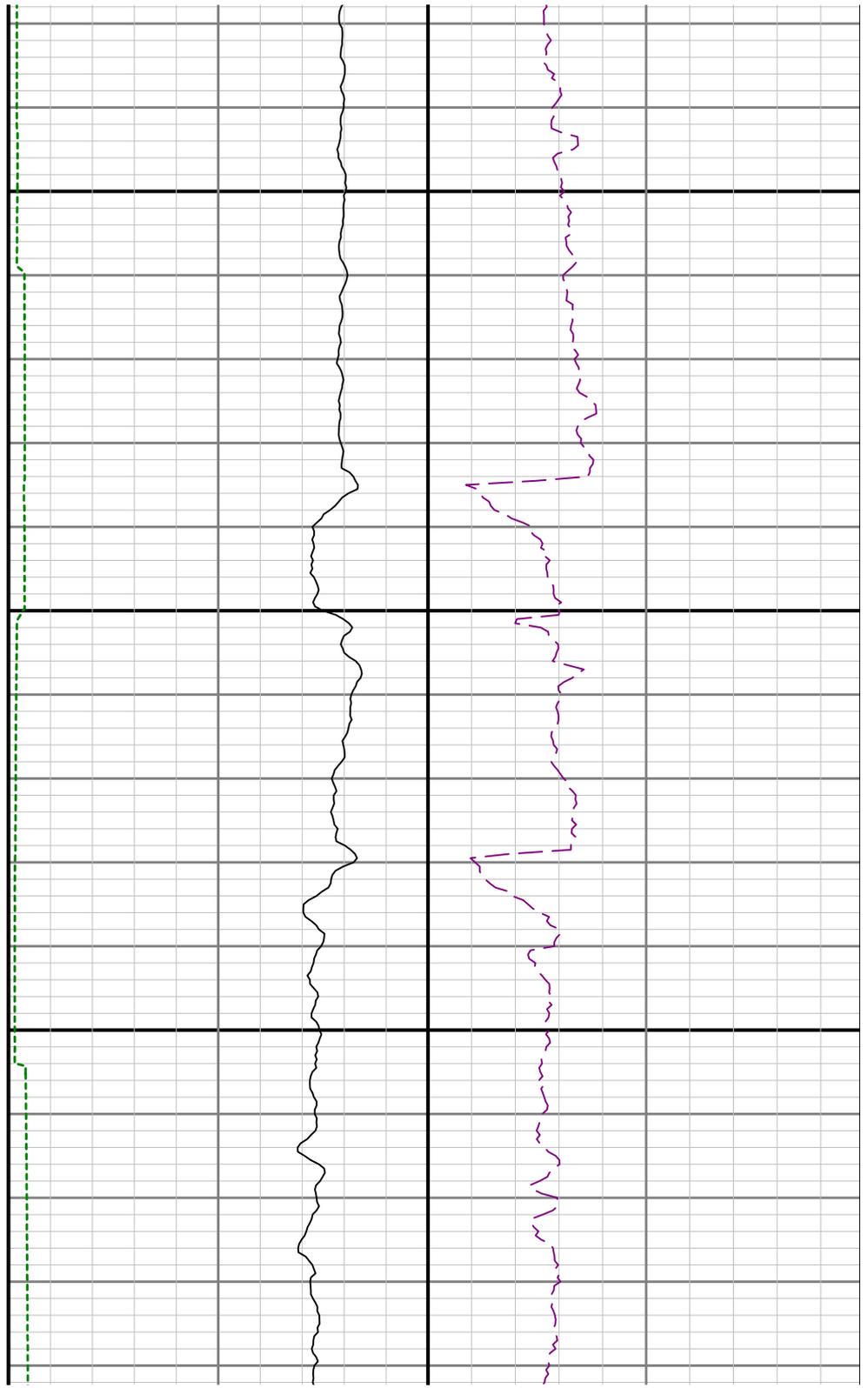
7200

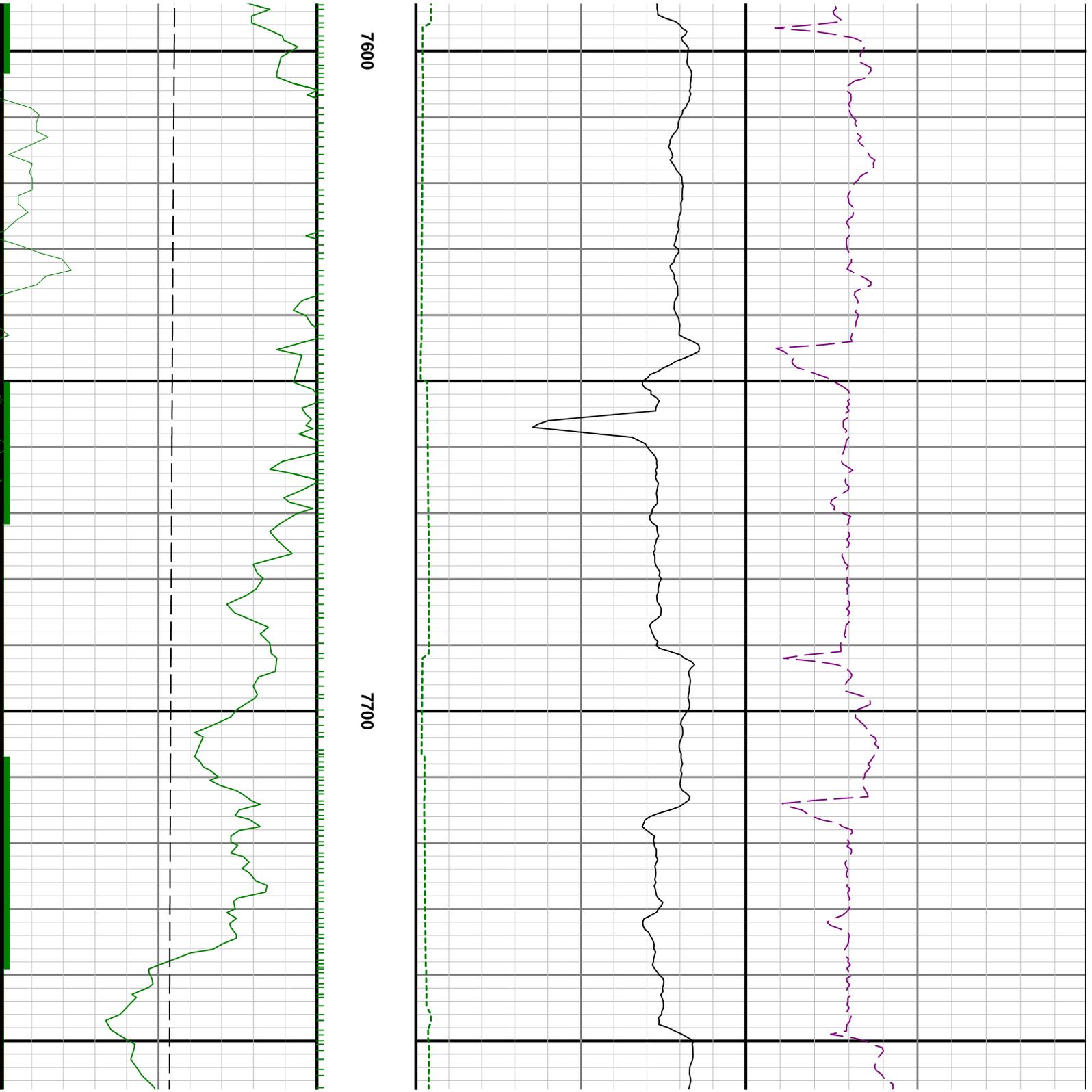


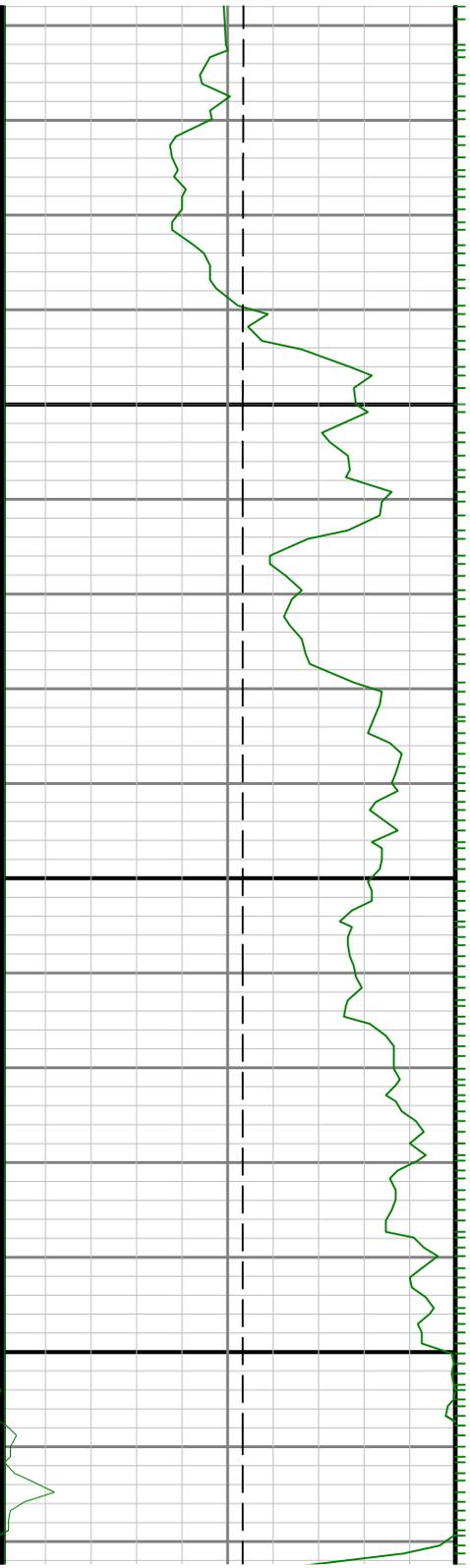




7500

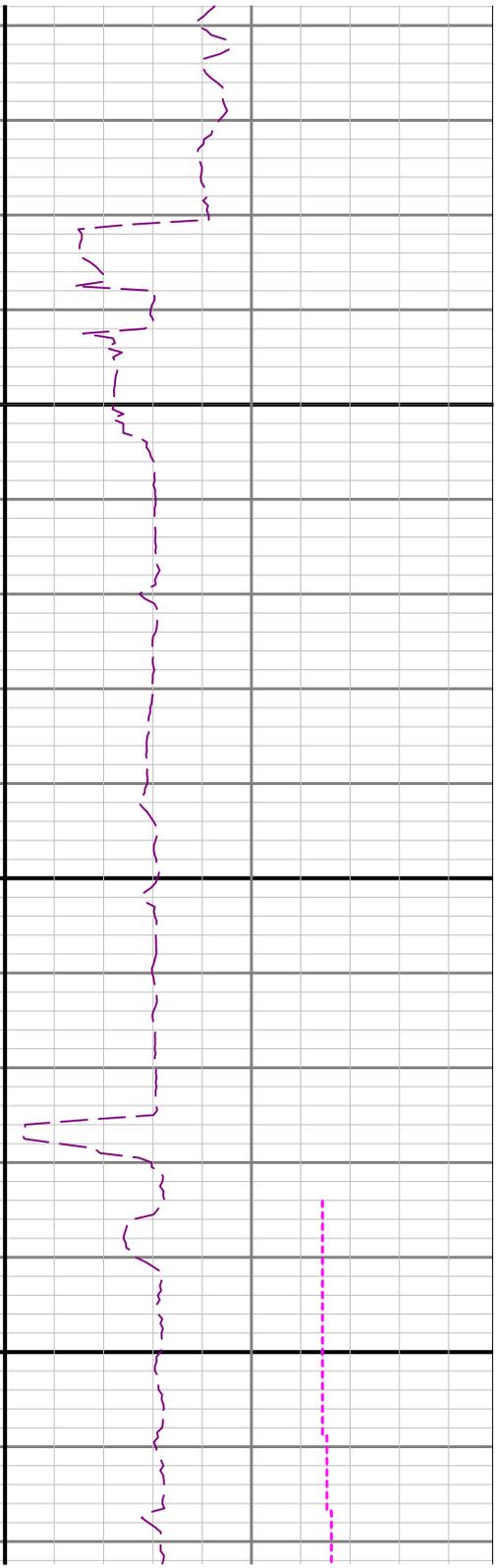


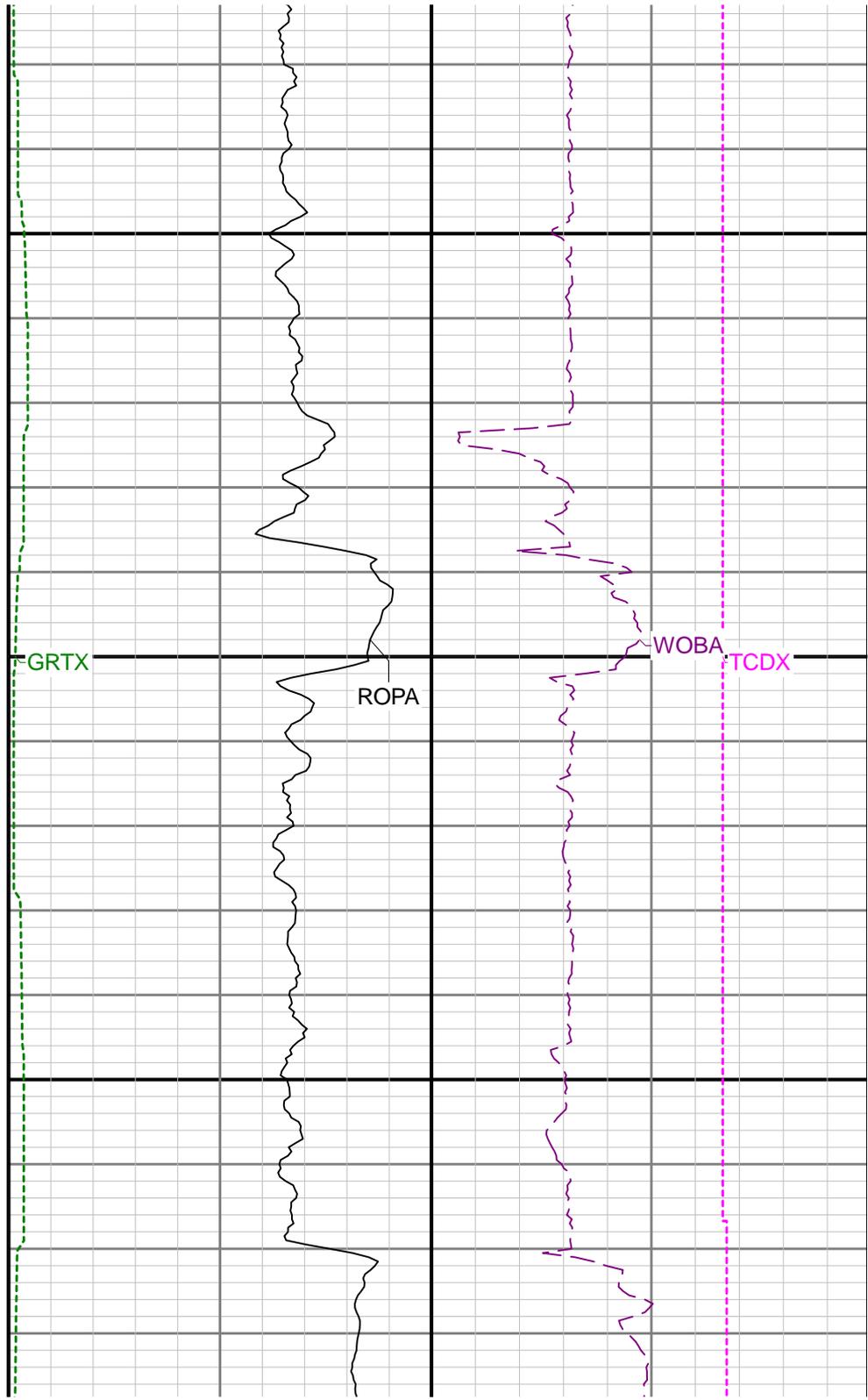
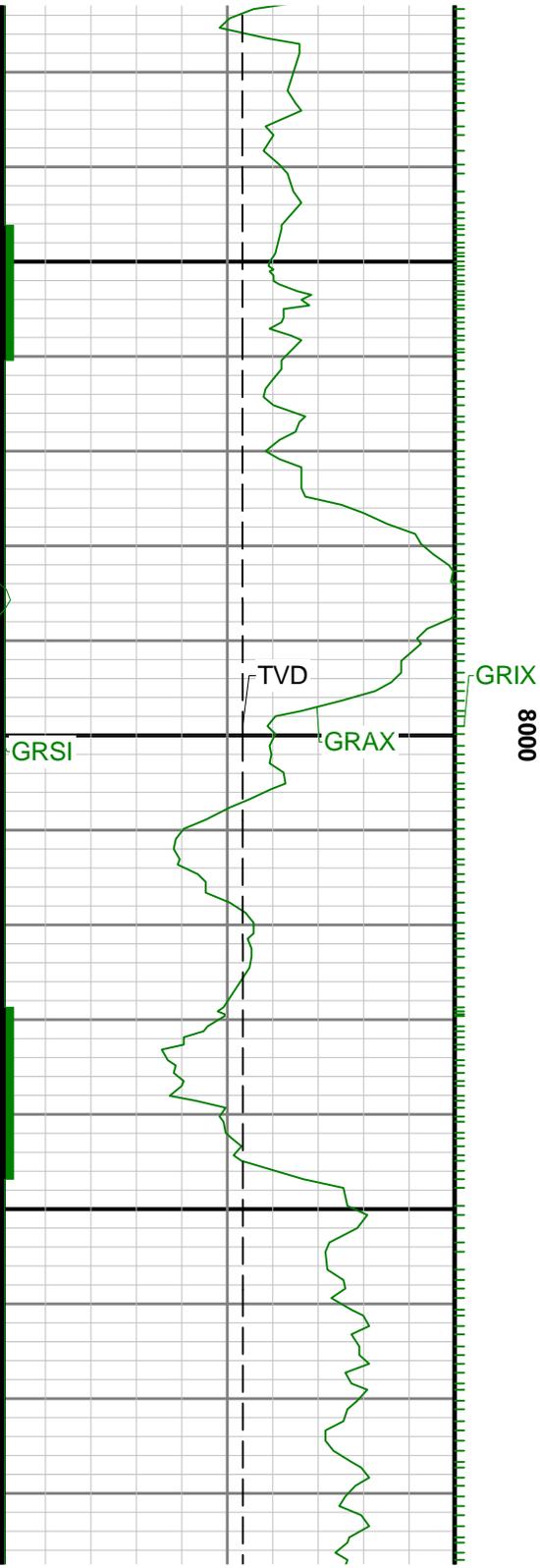


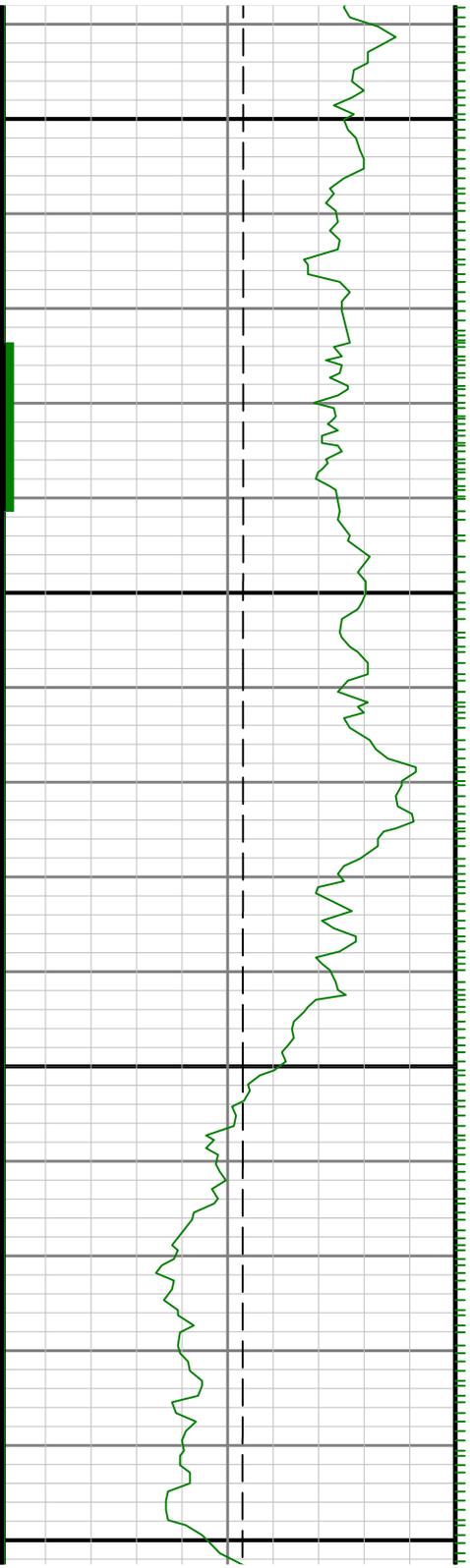


7800

7900

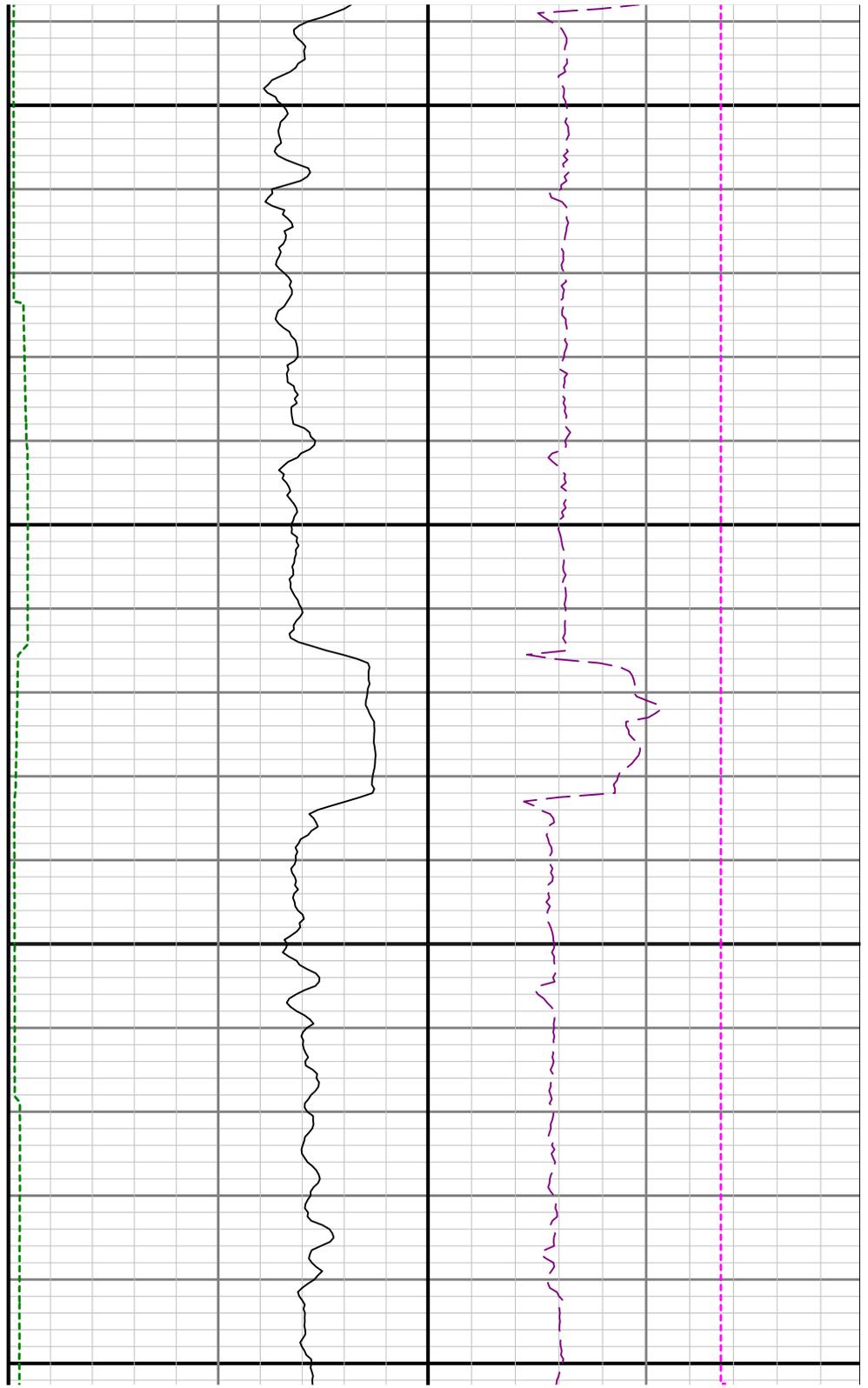


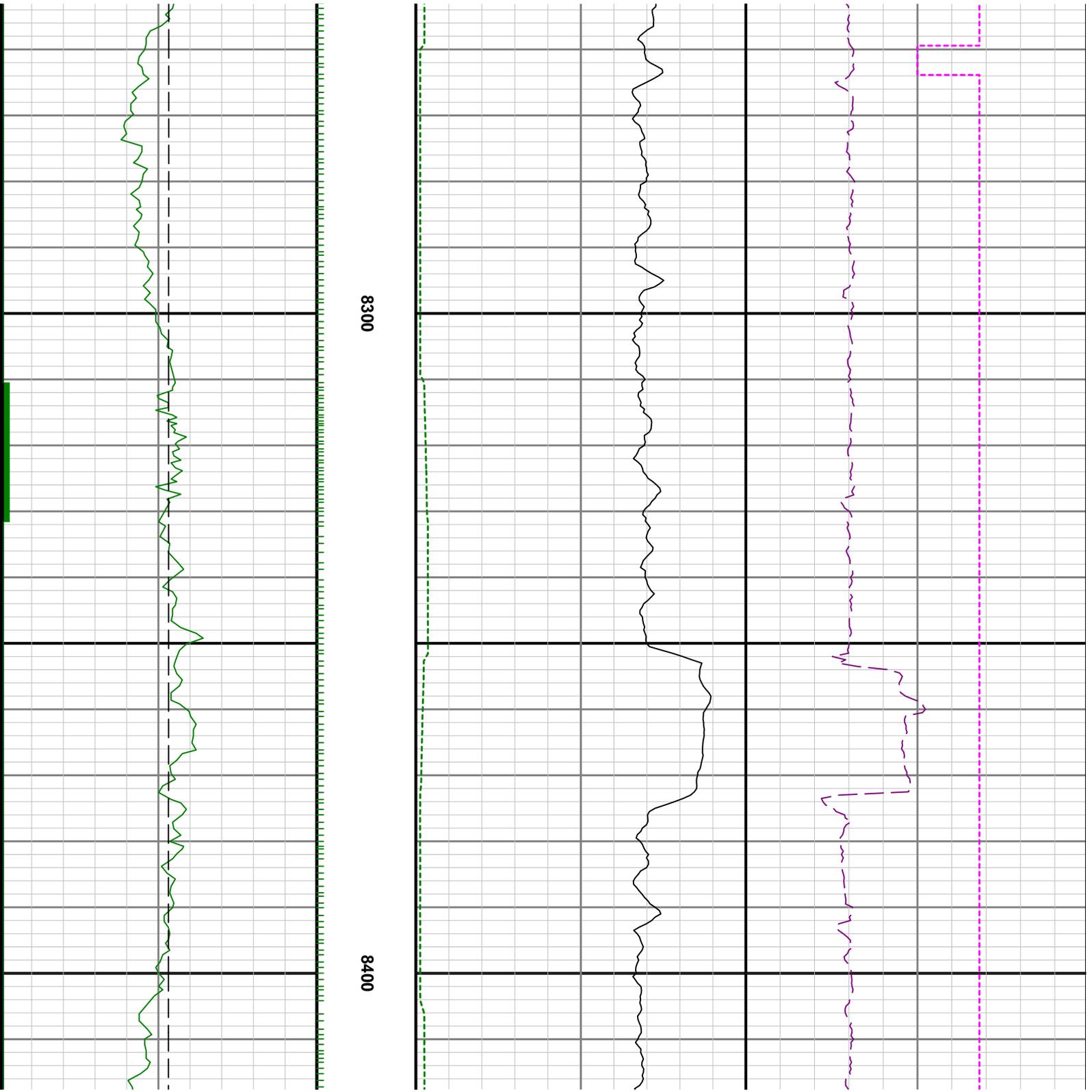


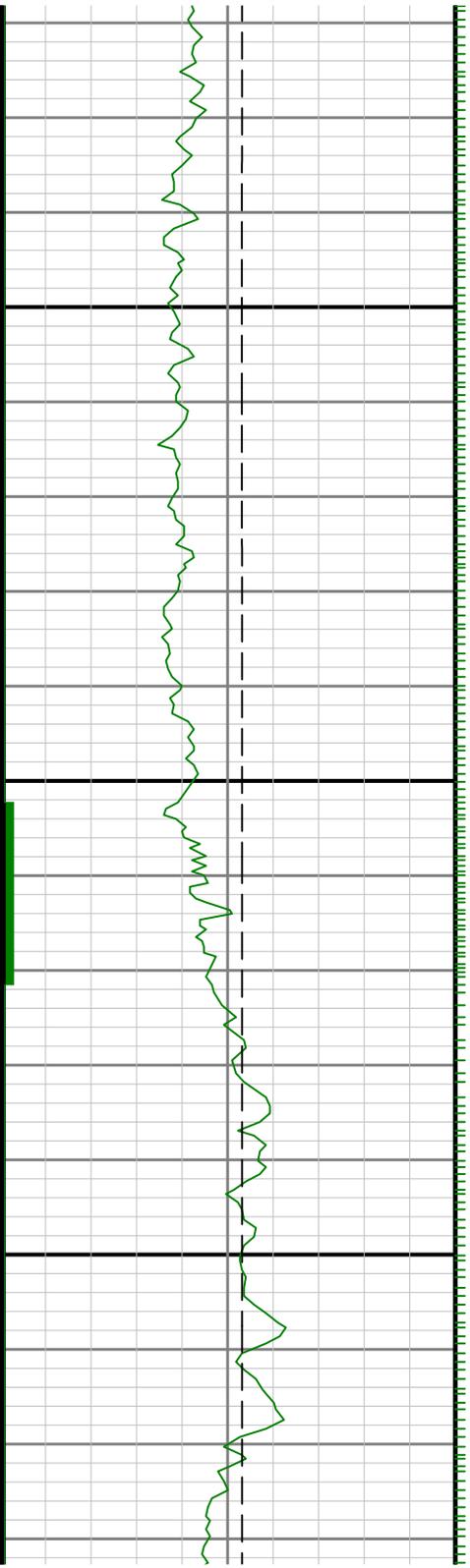


8100

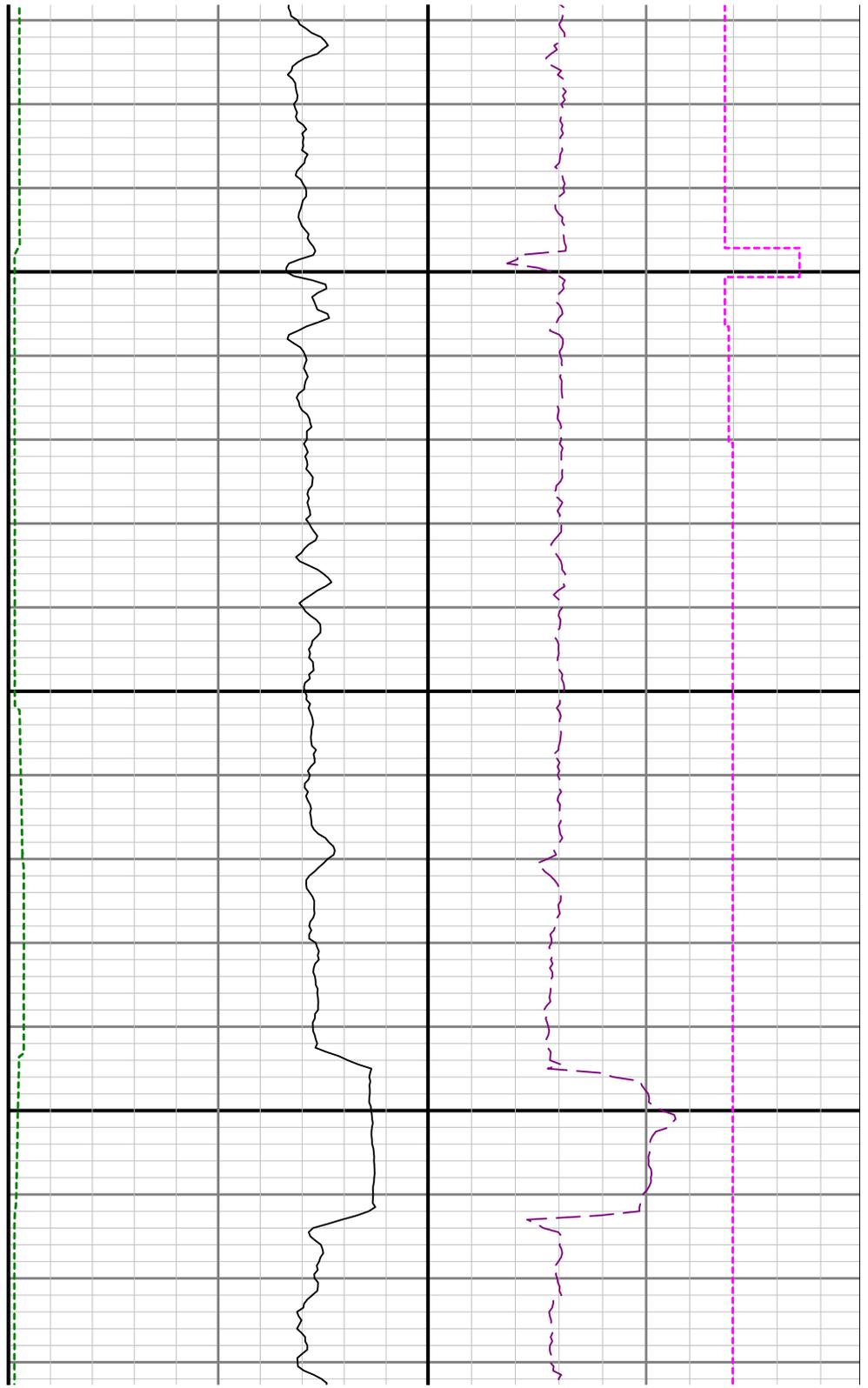
8200

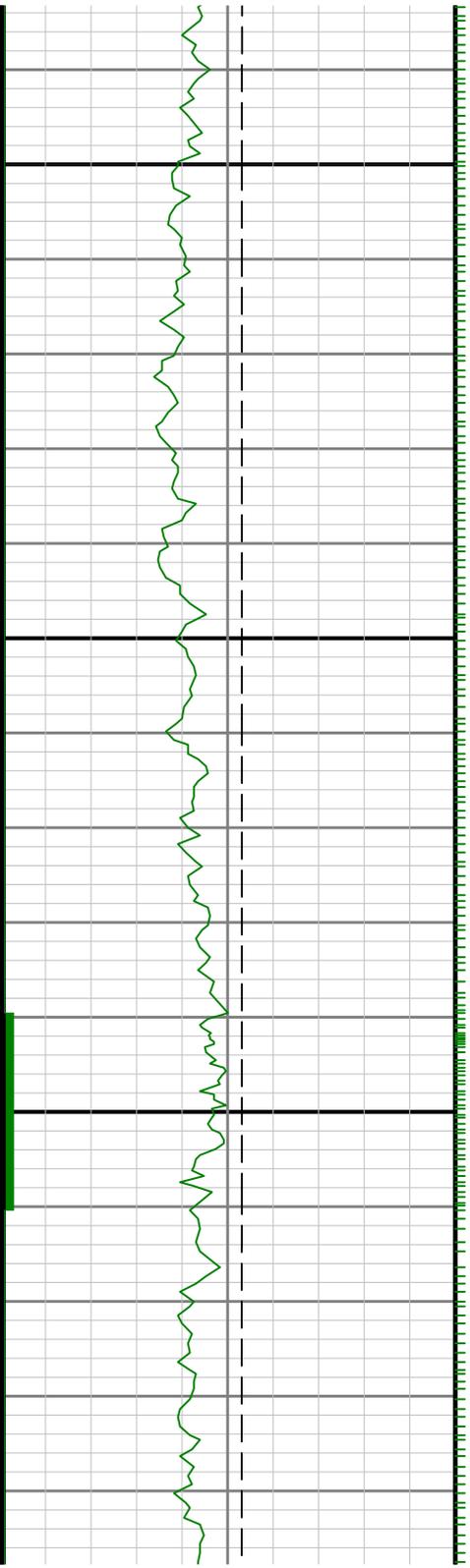






8500

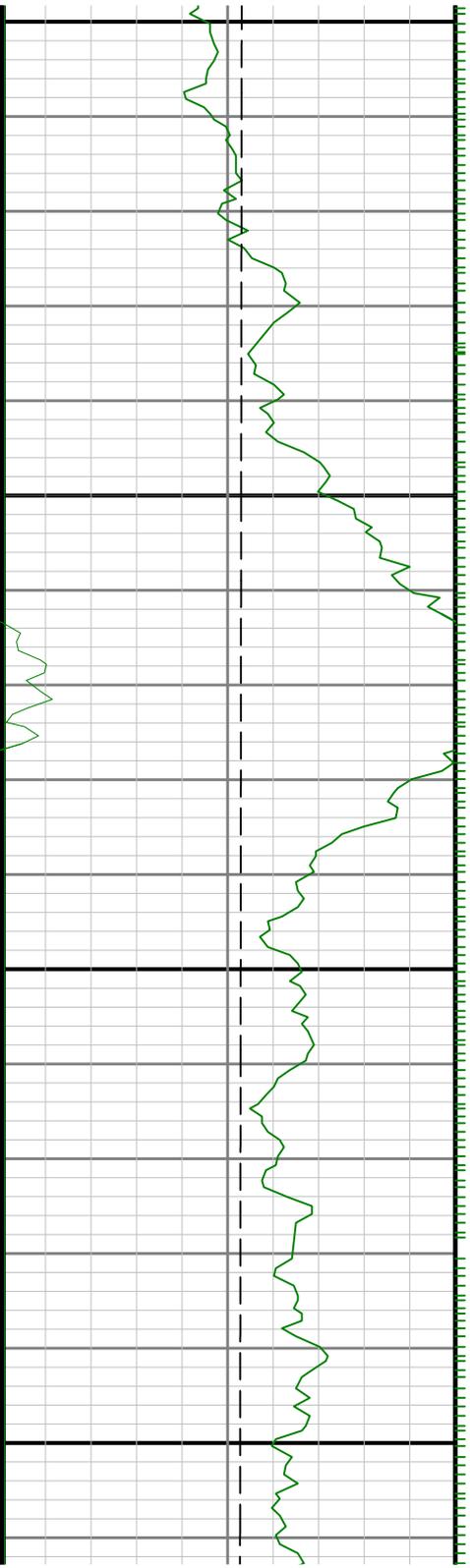




8600

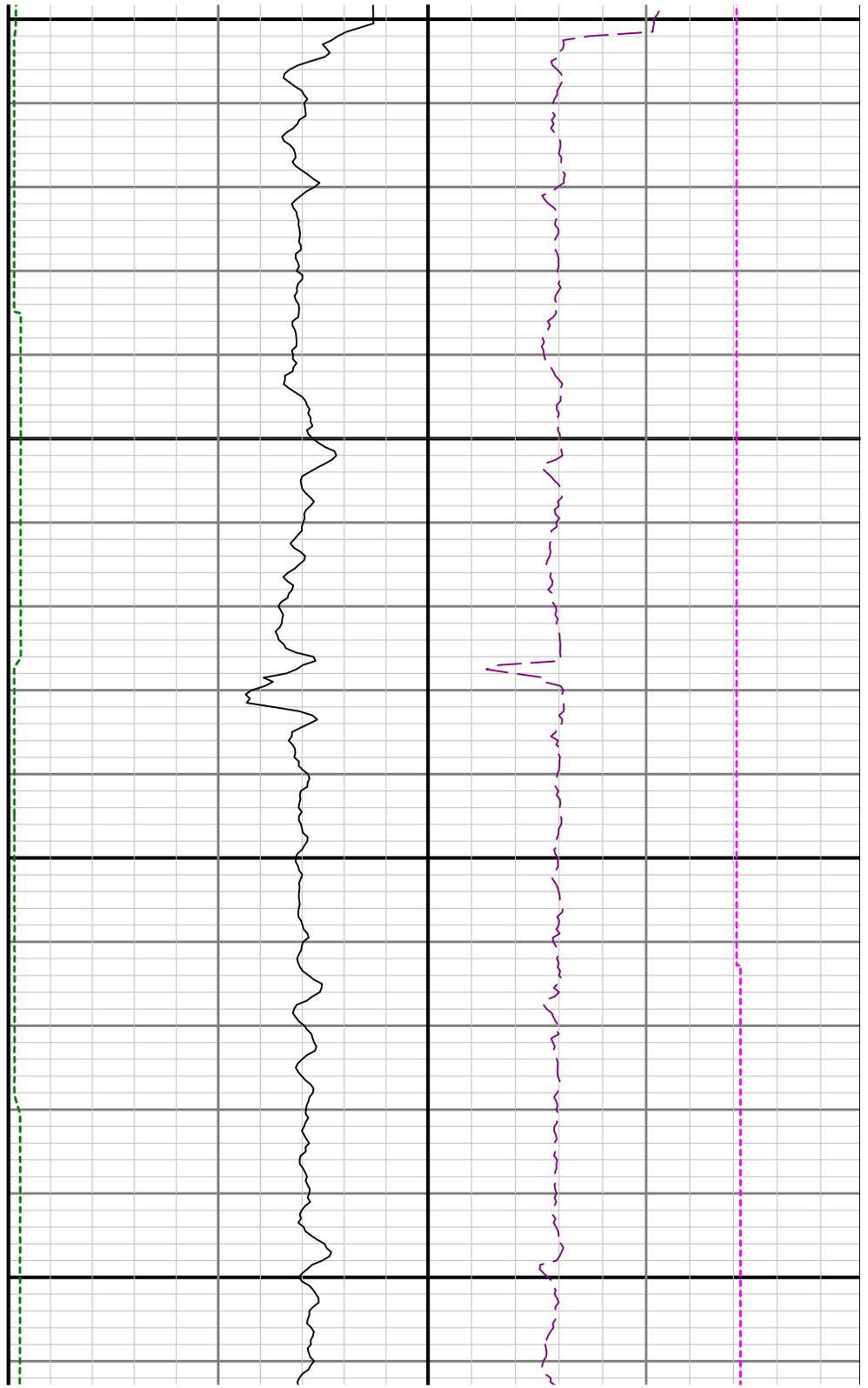
8700

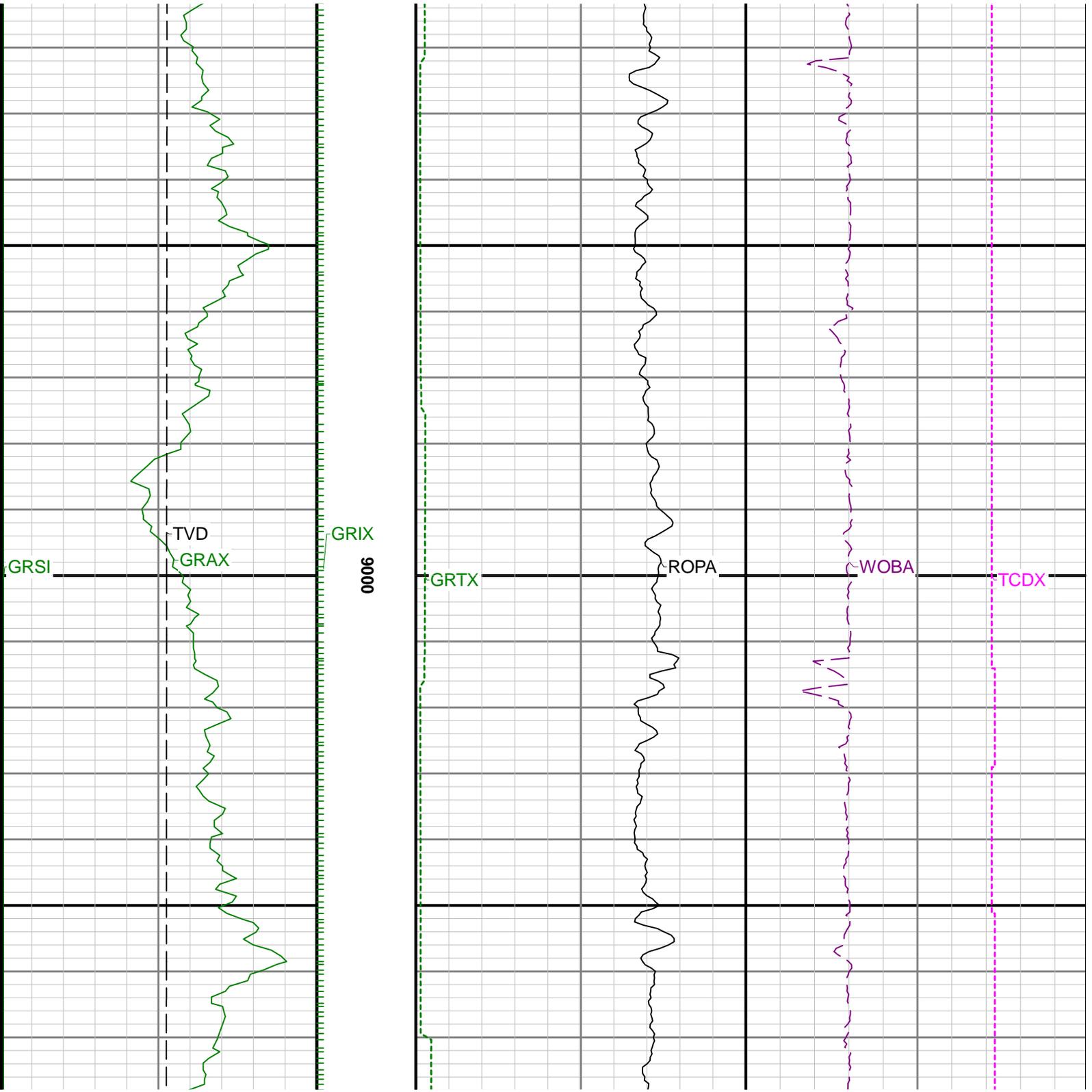


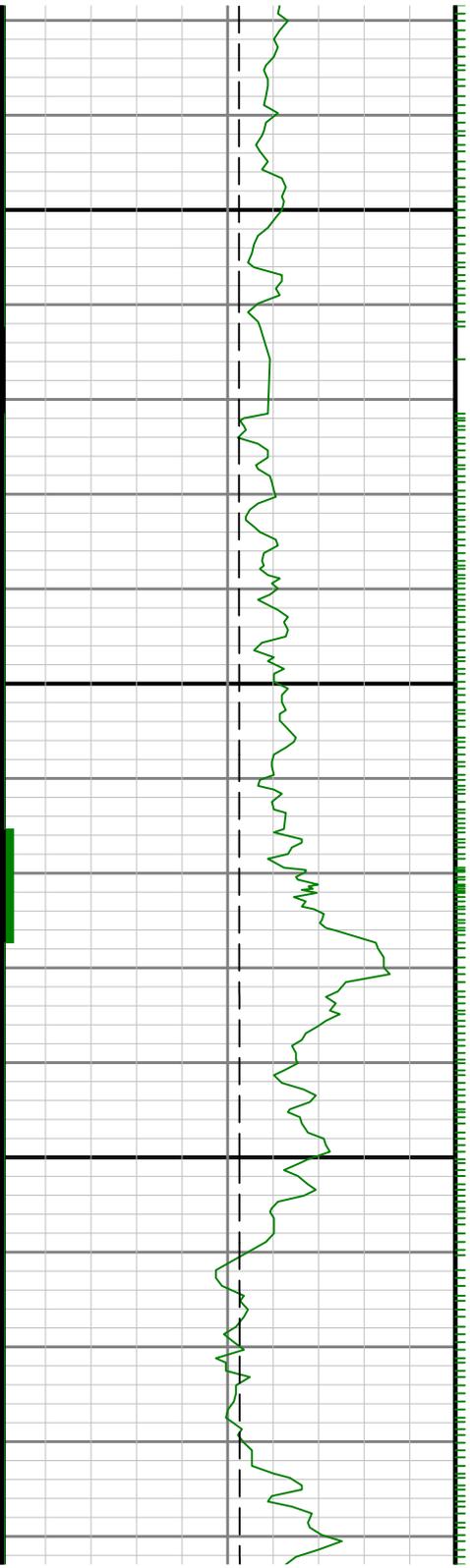


0068

8880

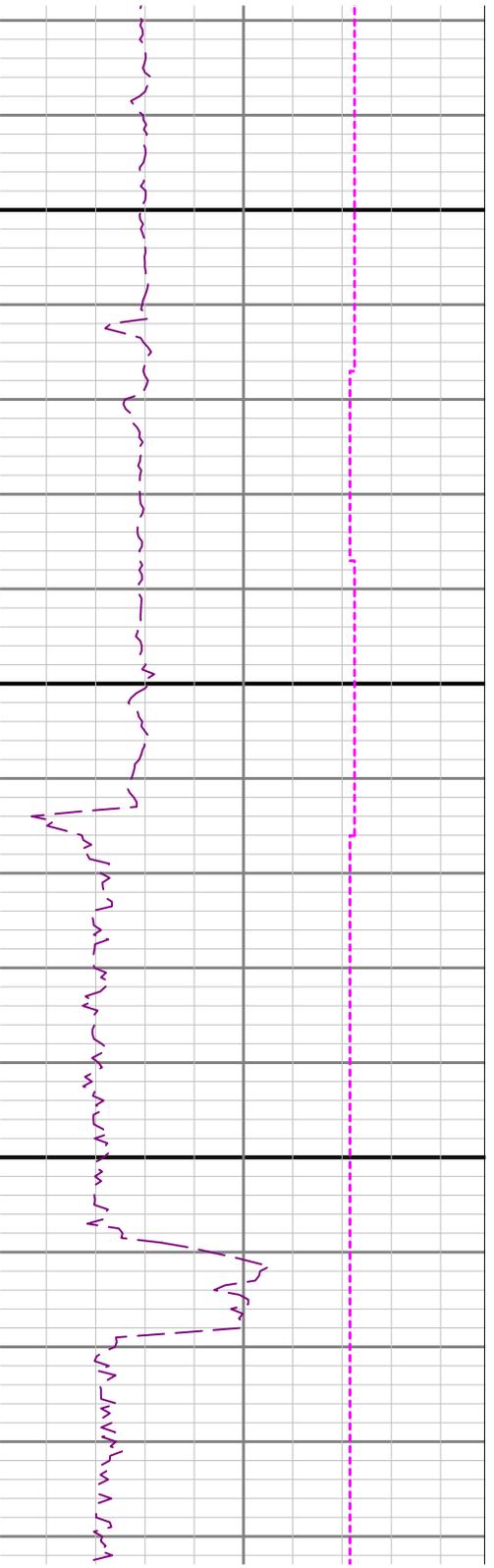
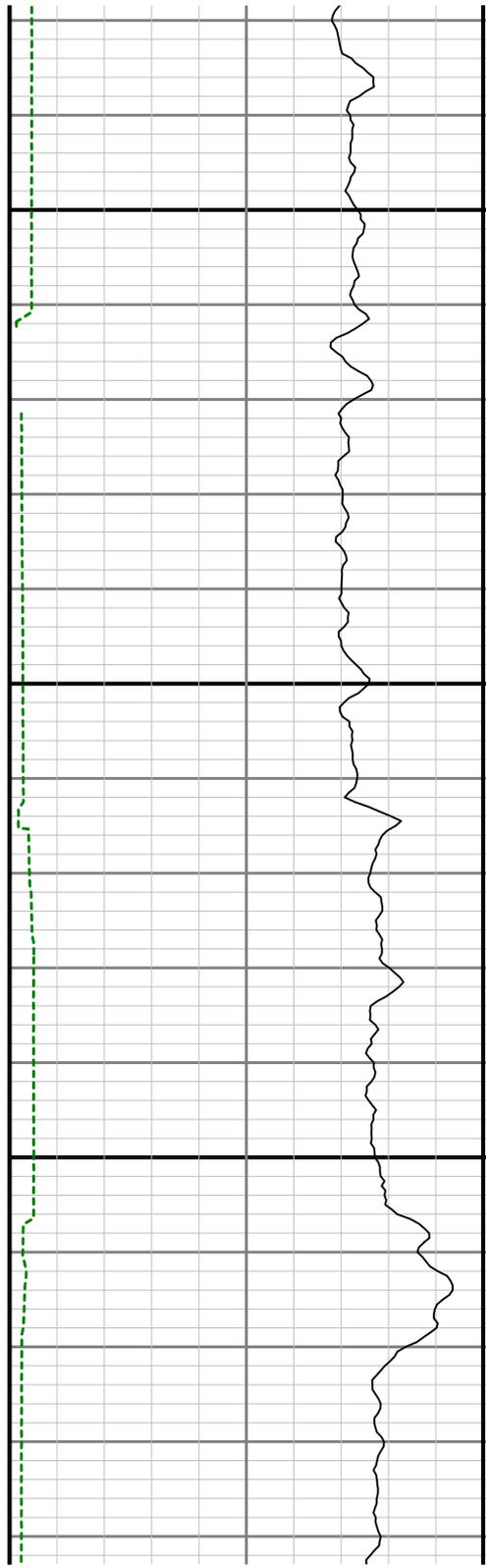


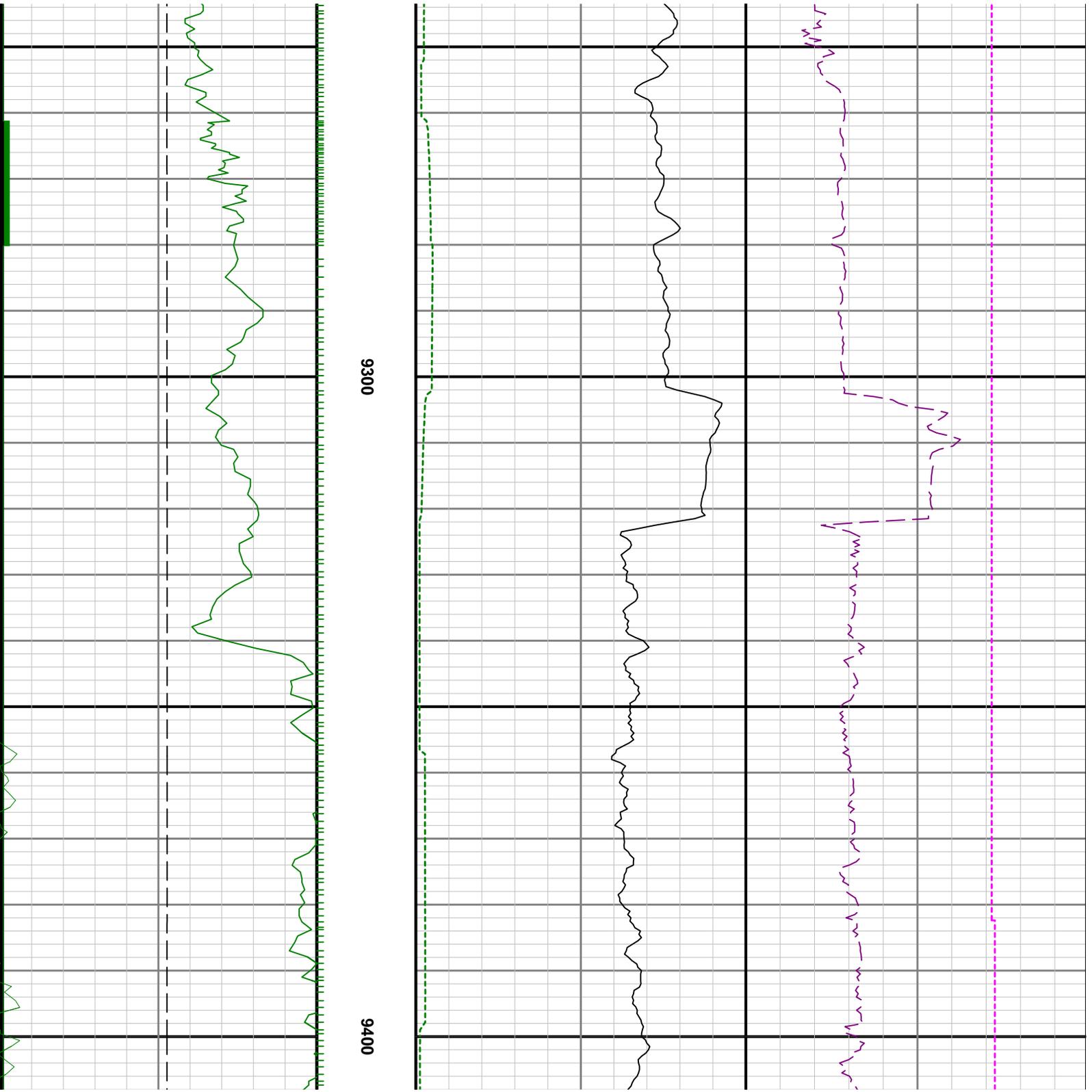


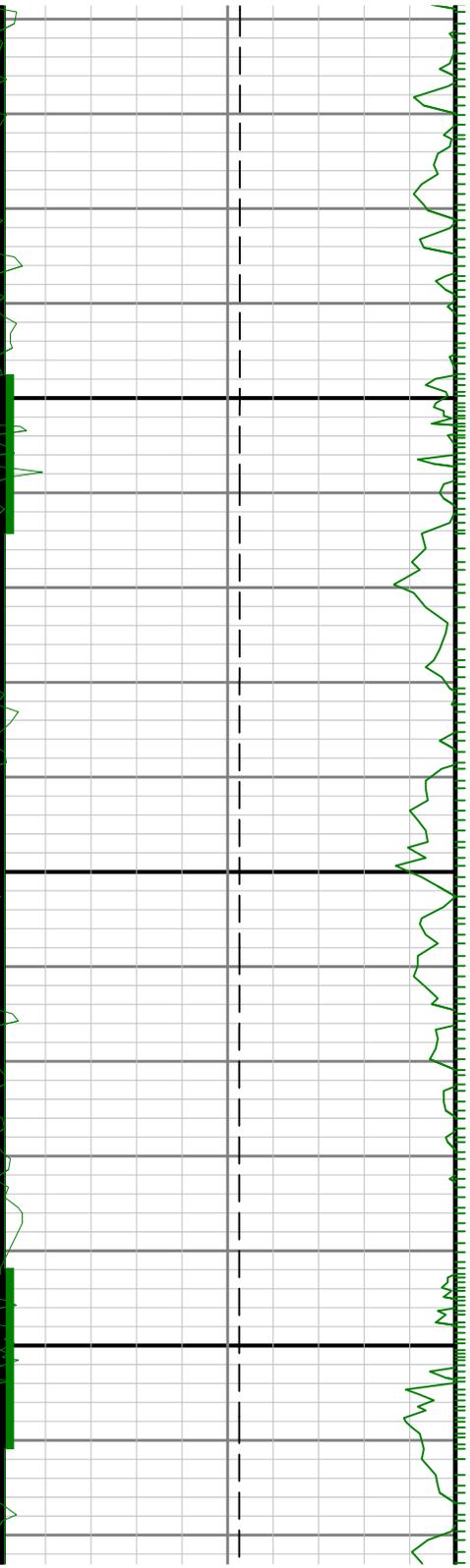


9100

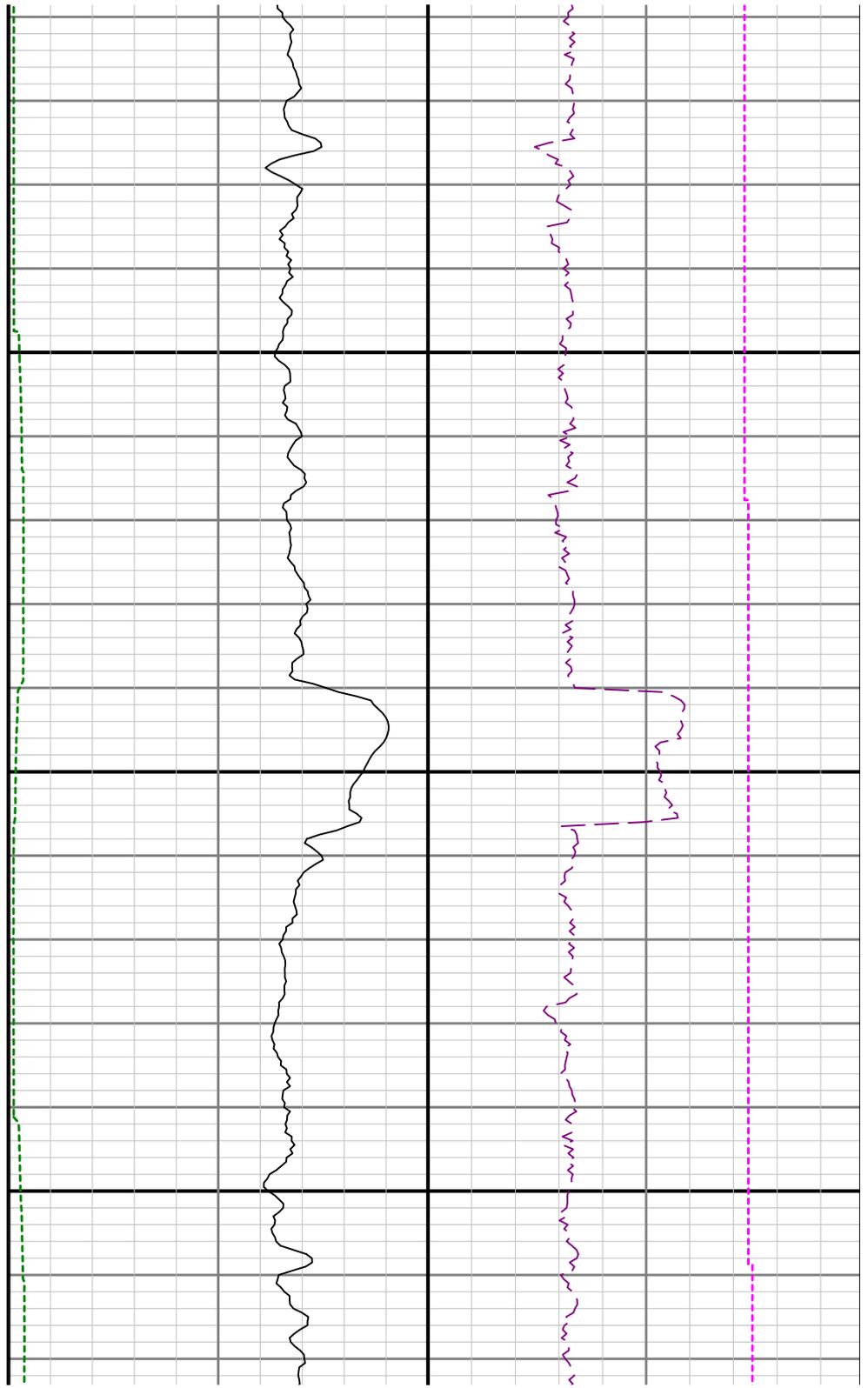
9200

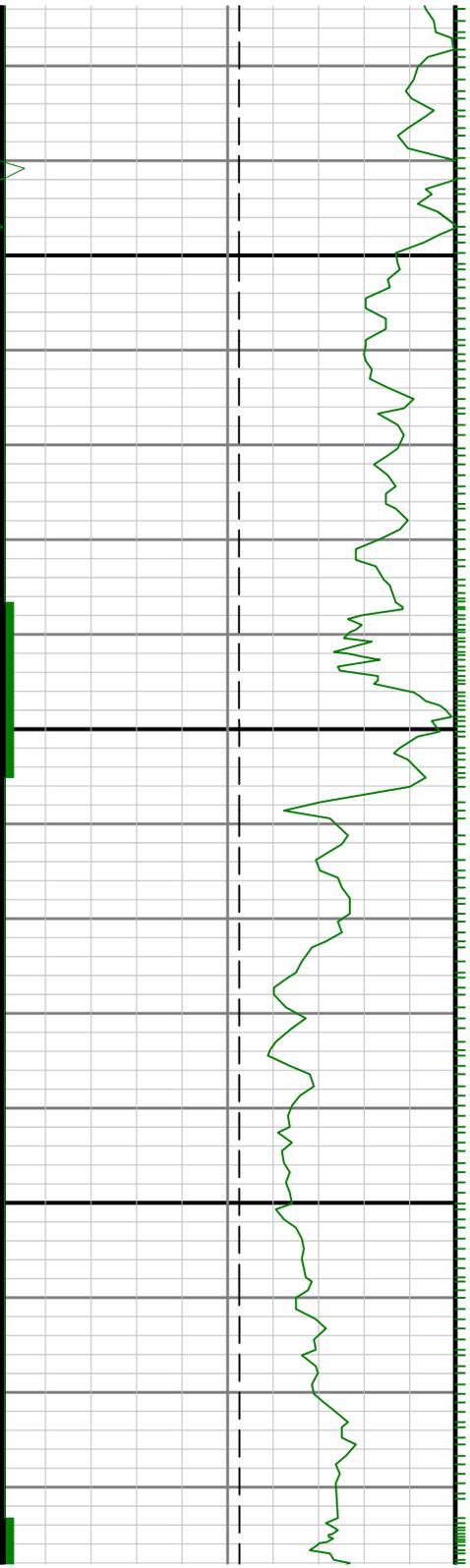






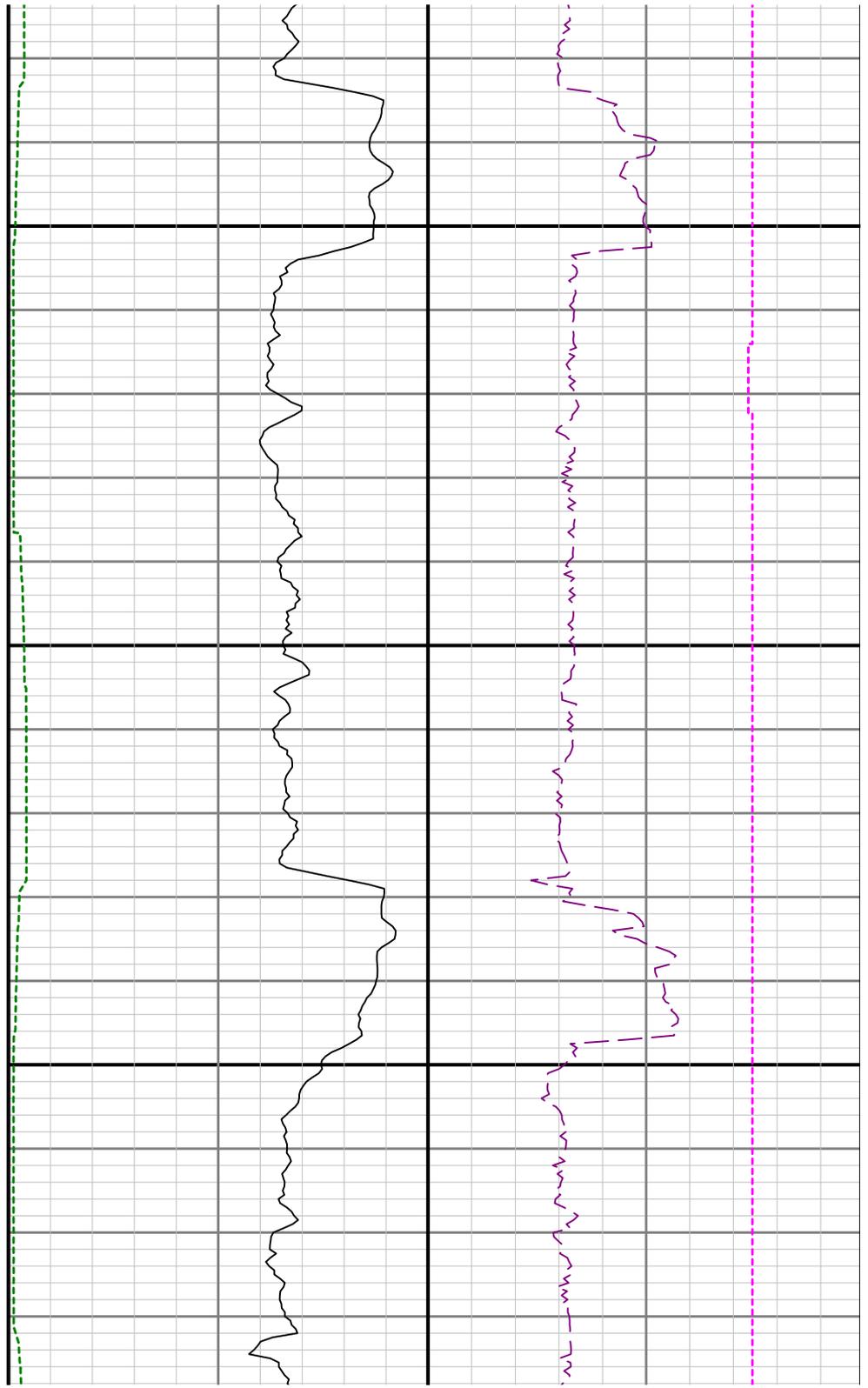
9500

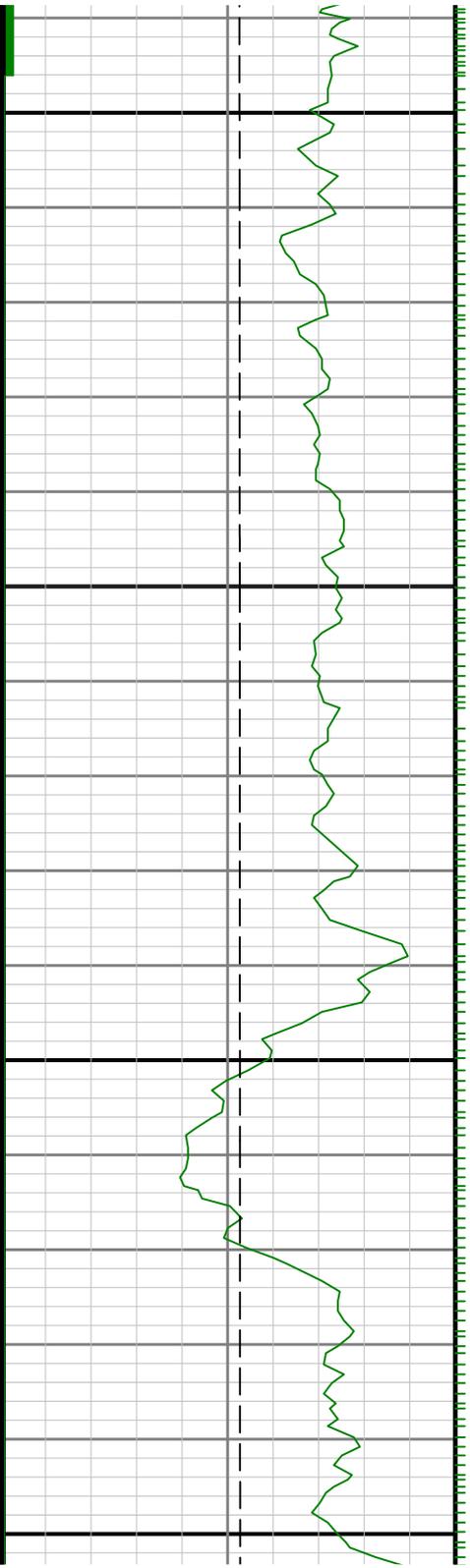




9700

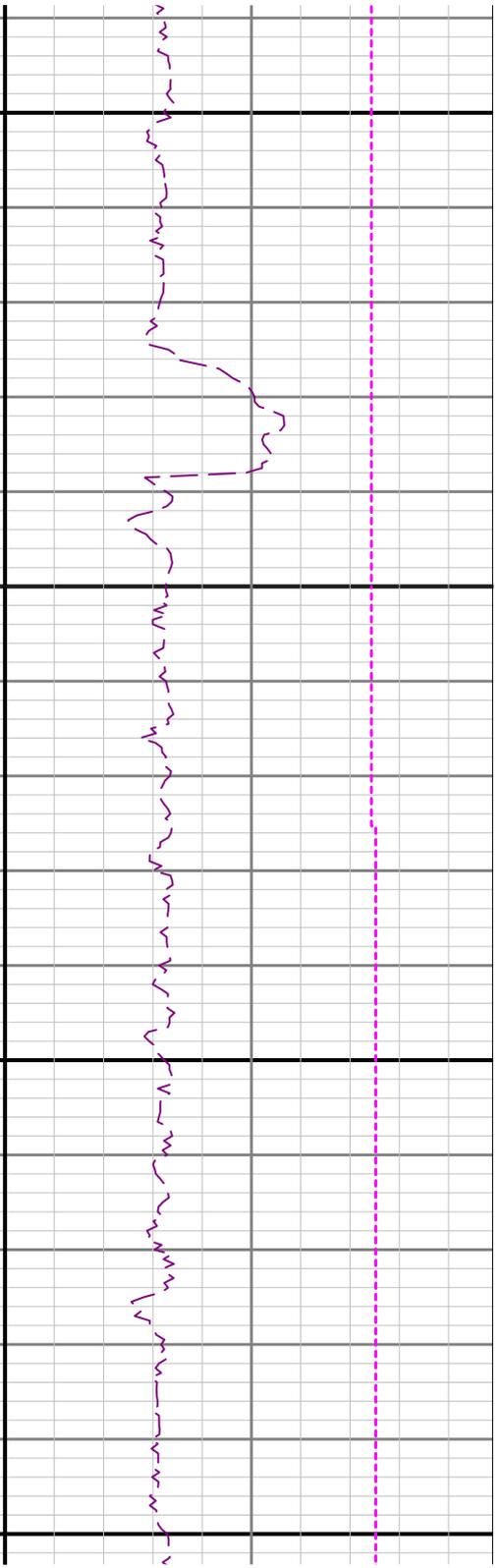
0096

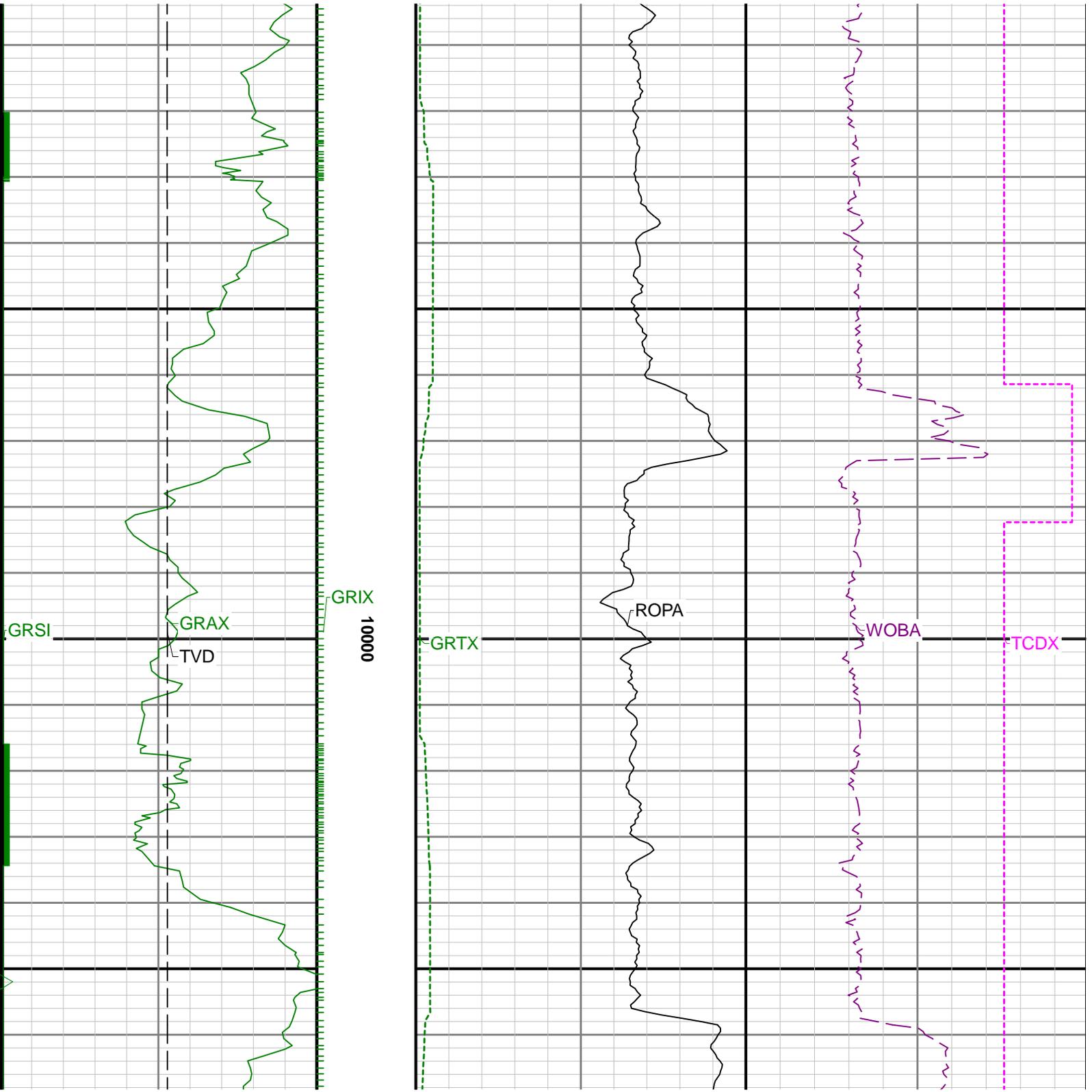


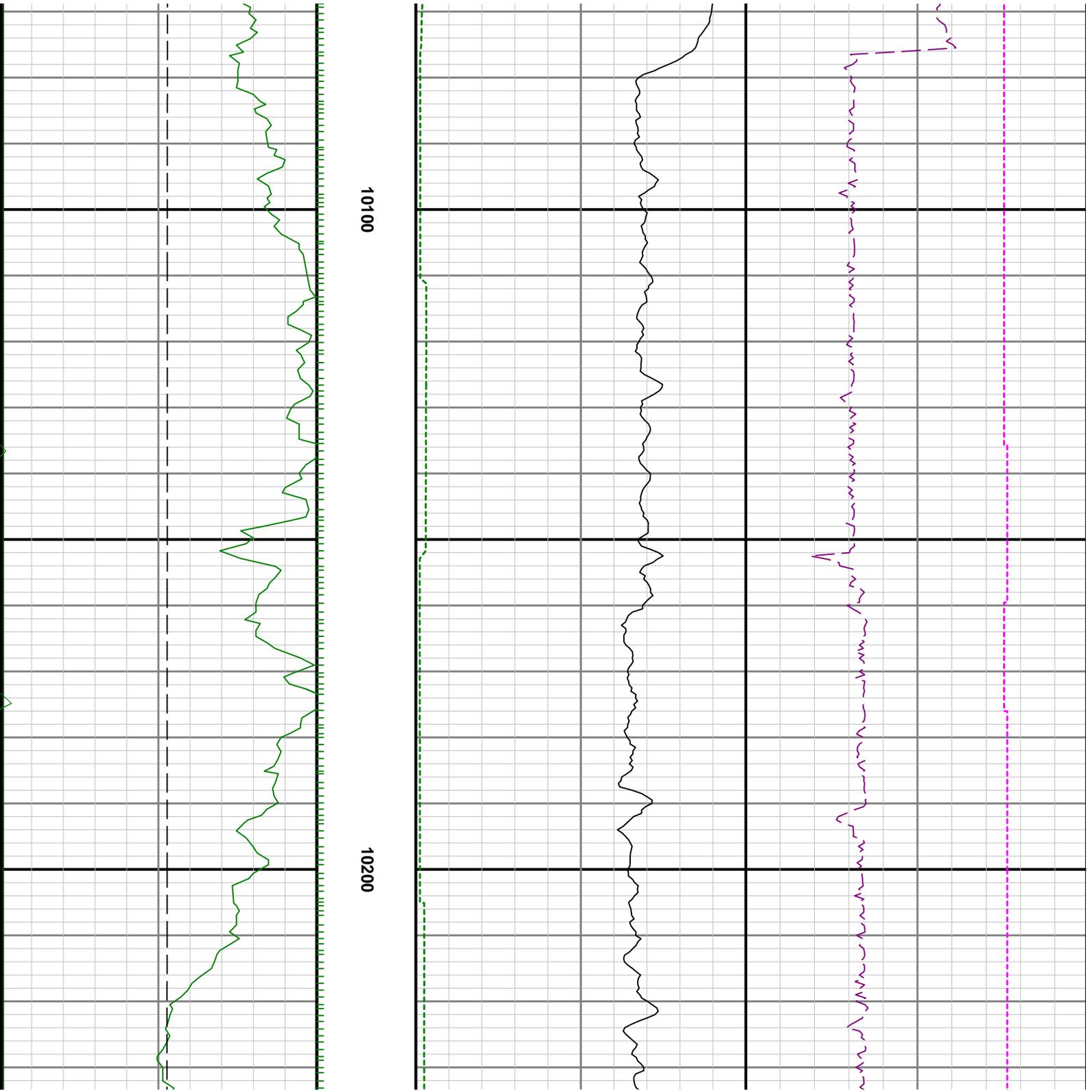


9906

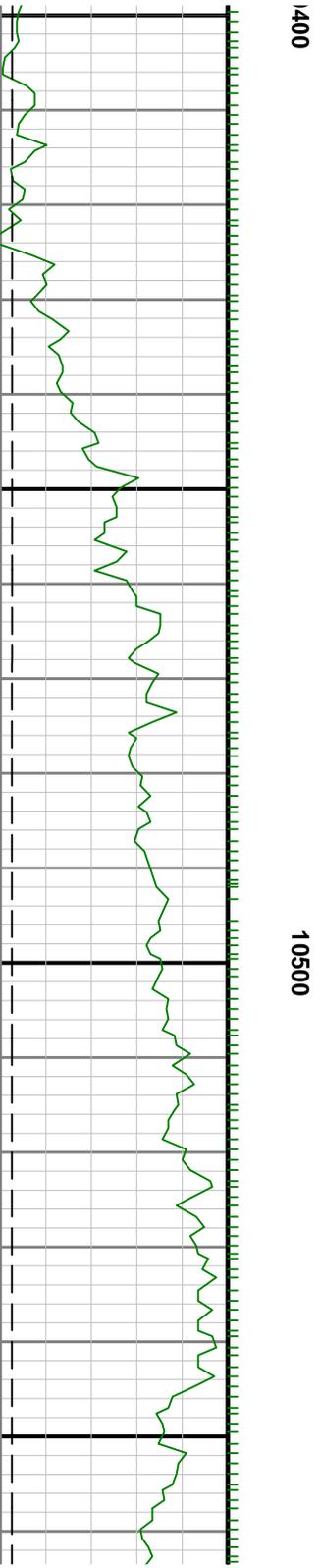
0086

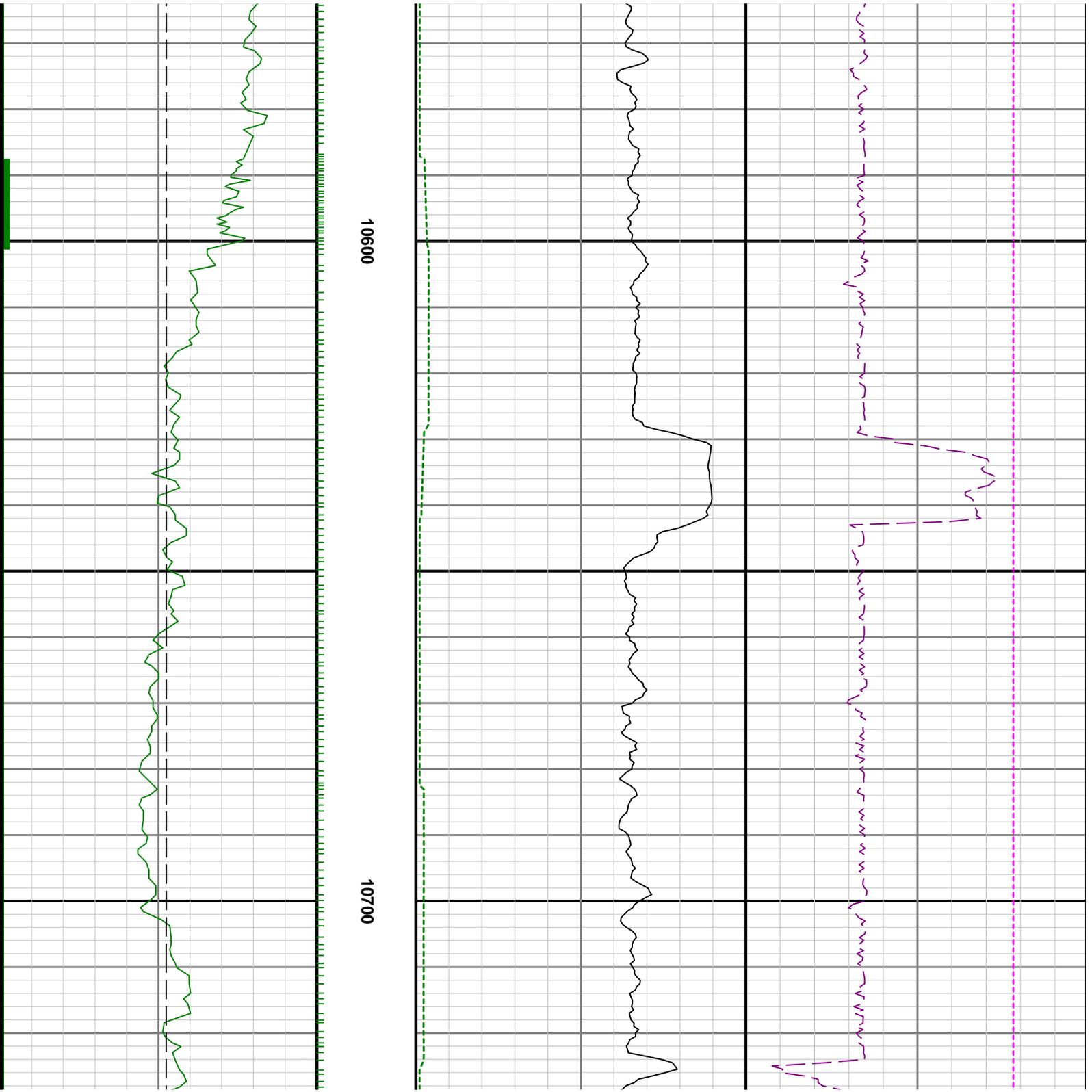


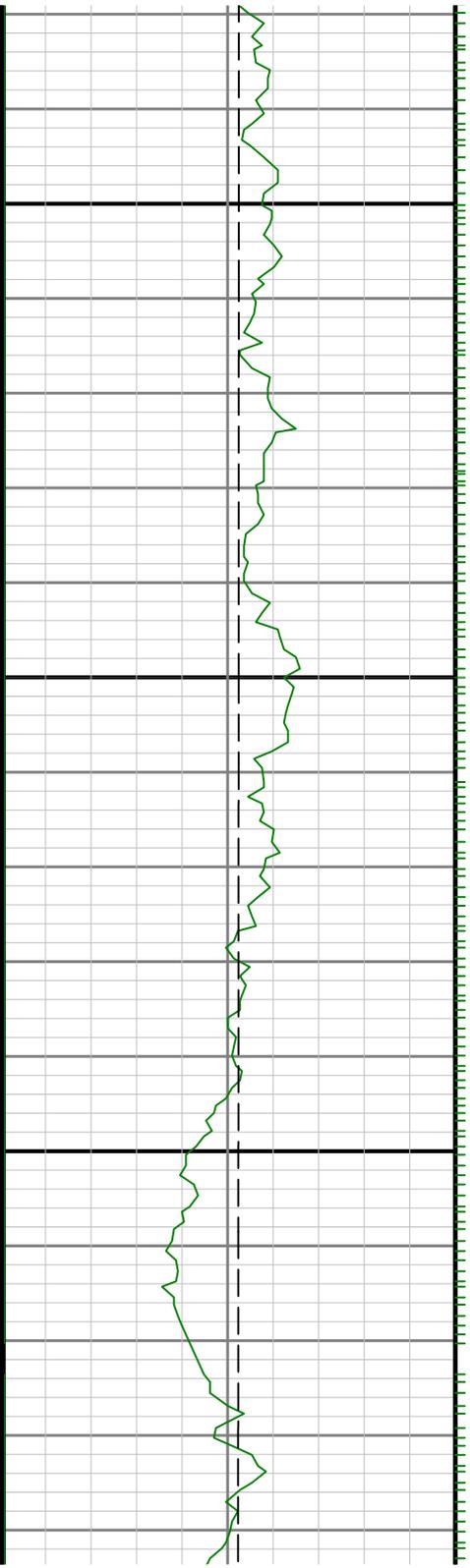




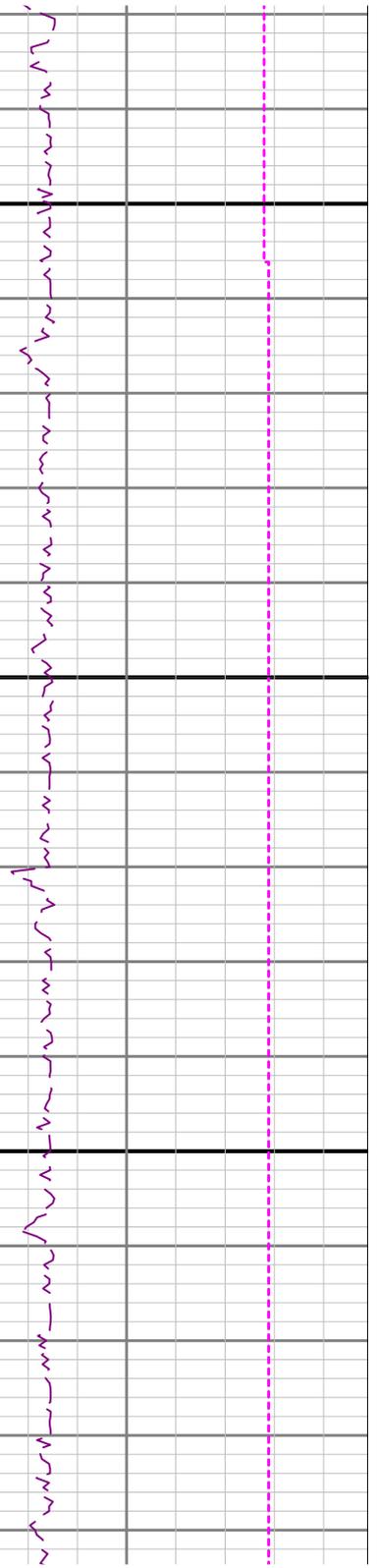
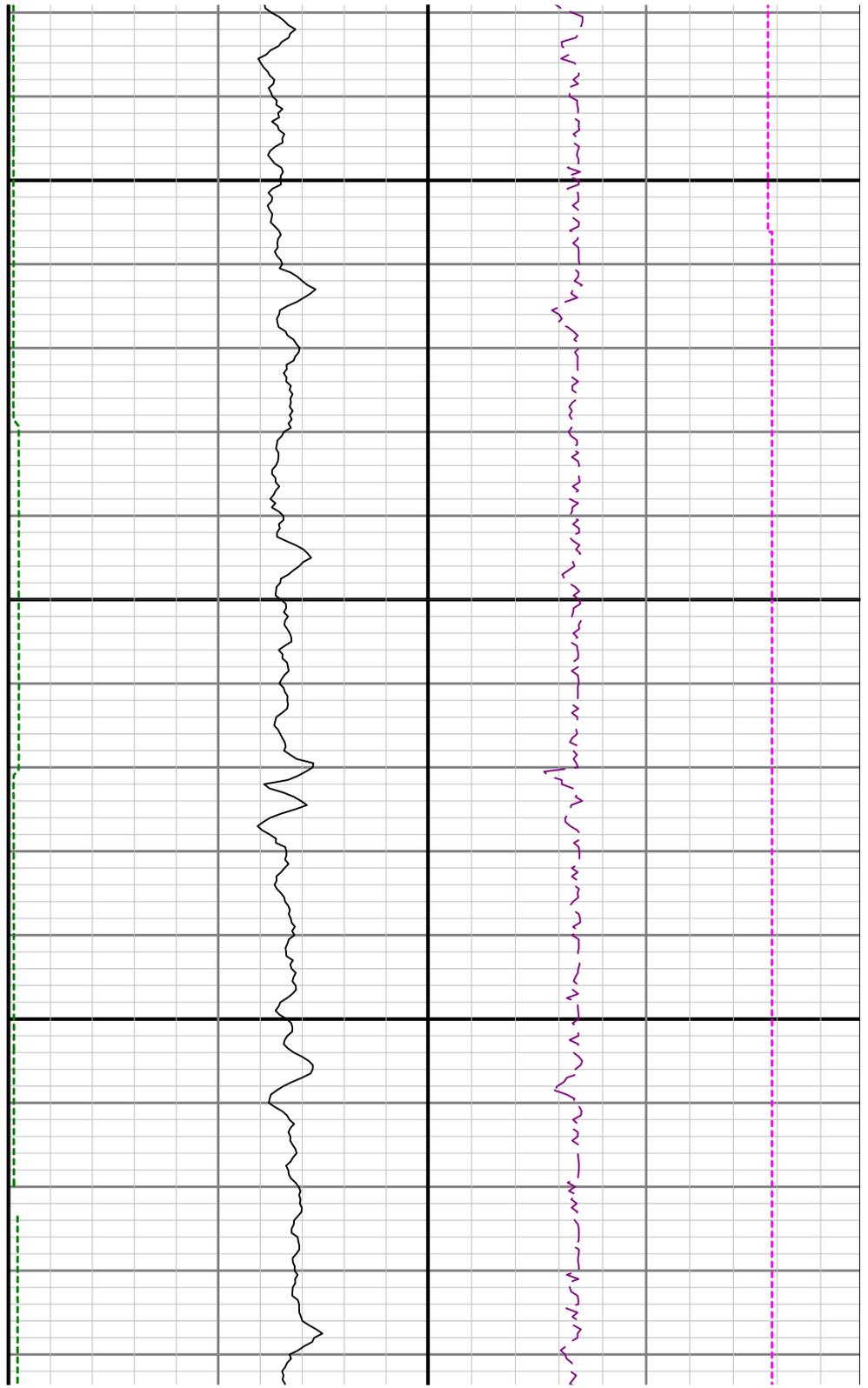


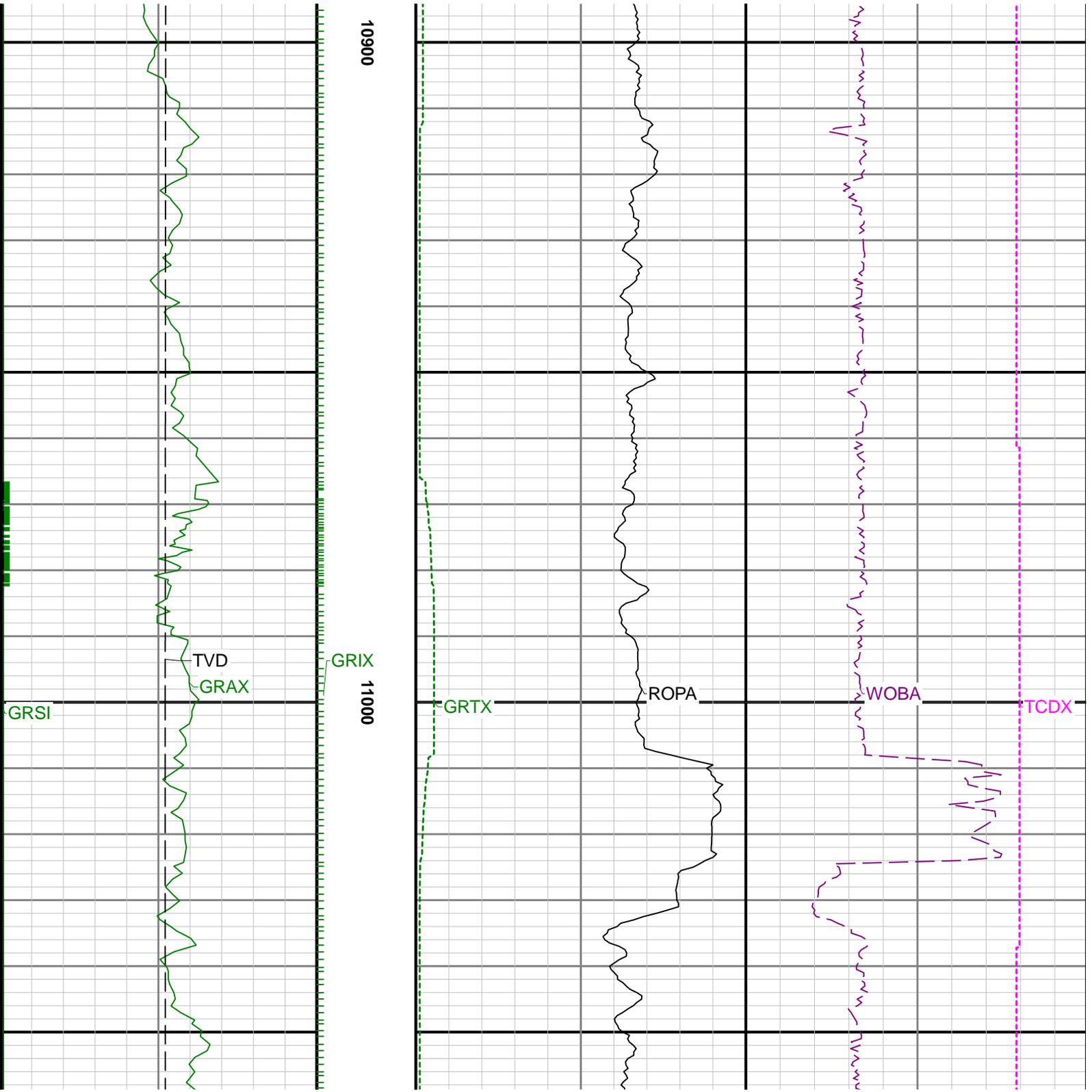


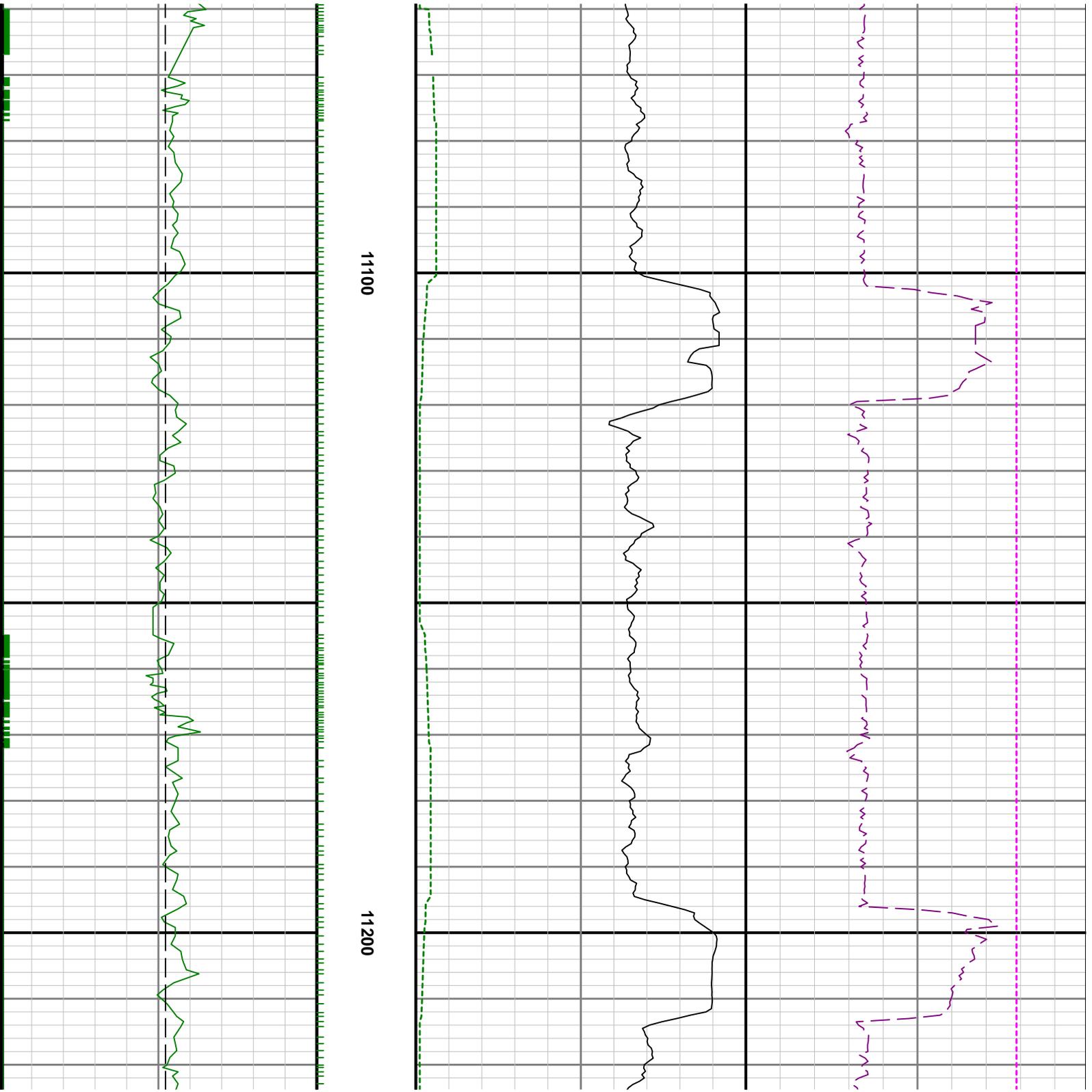


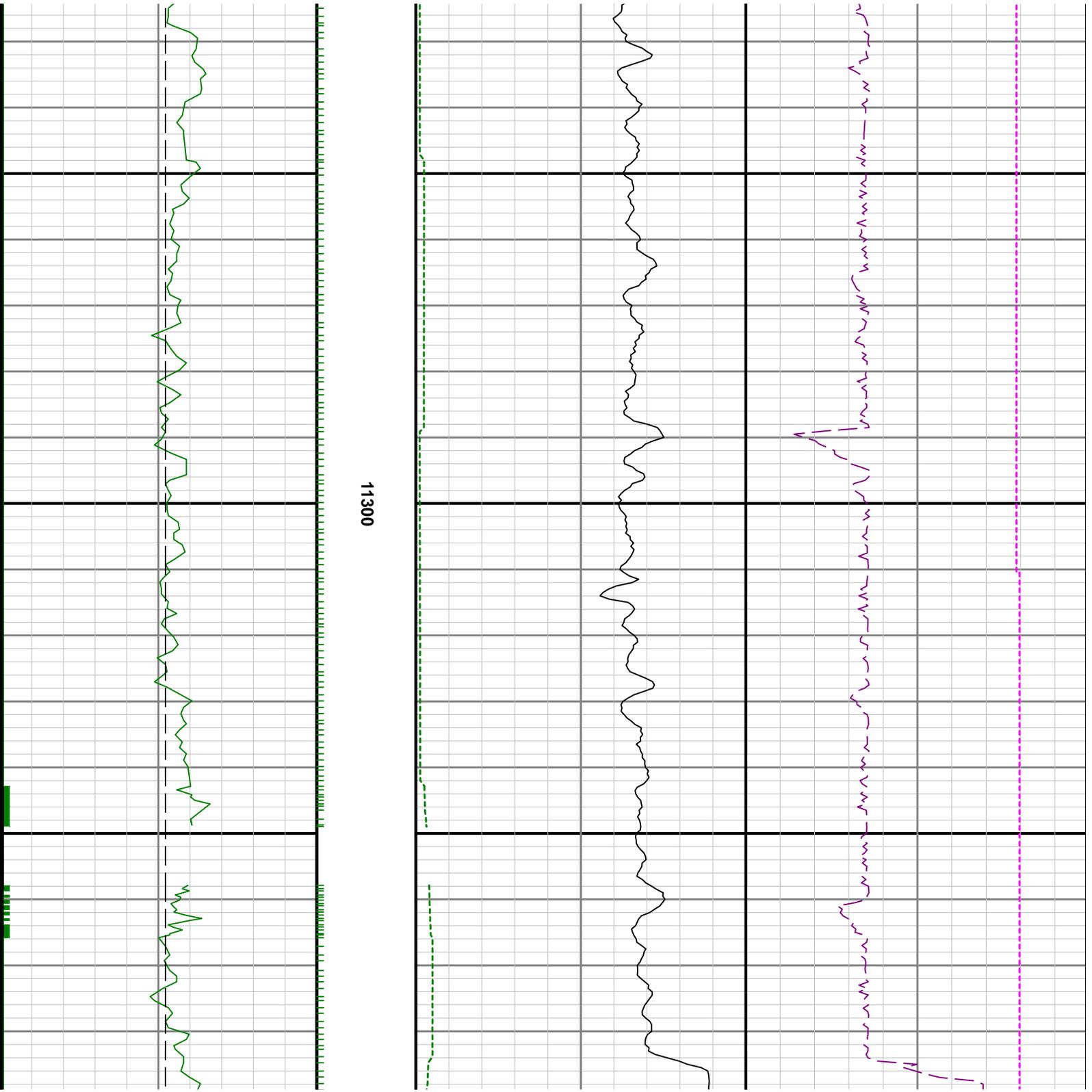


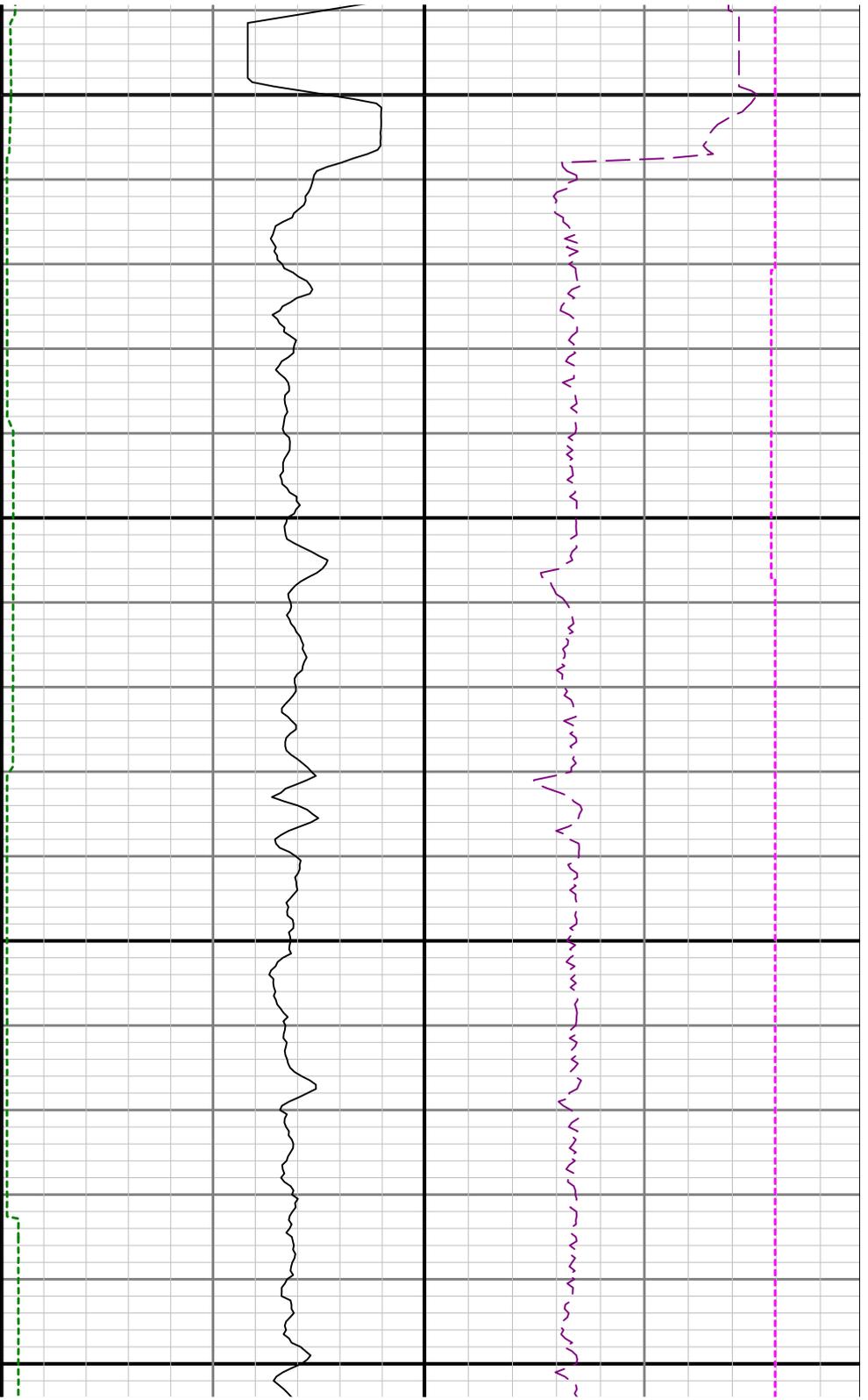
10800





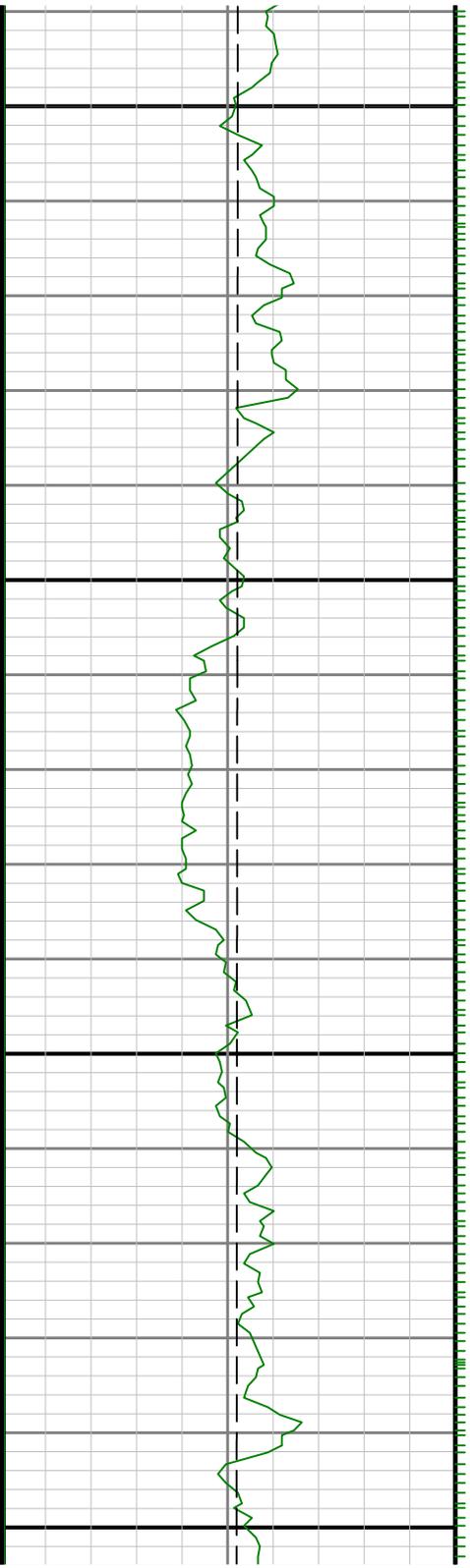


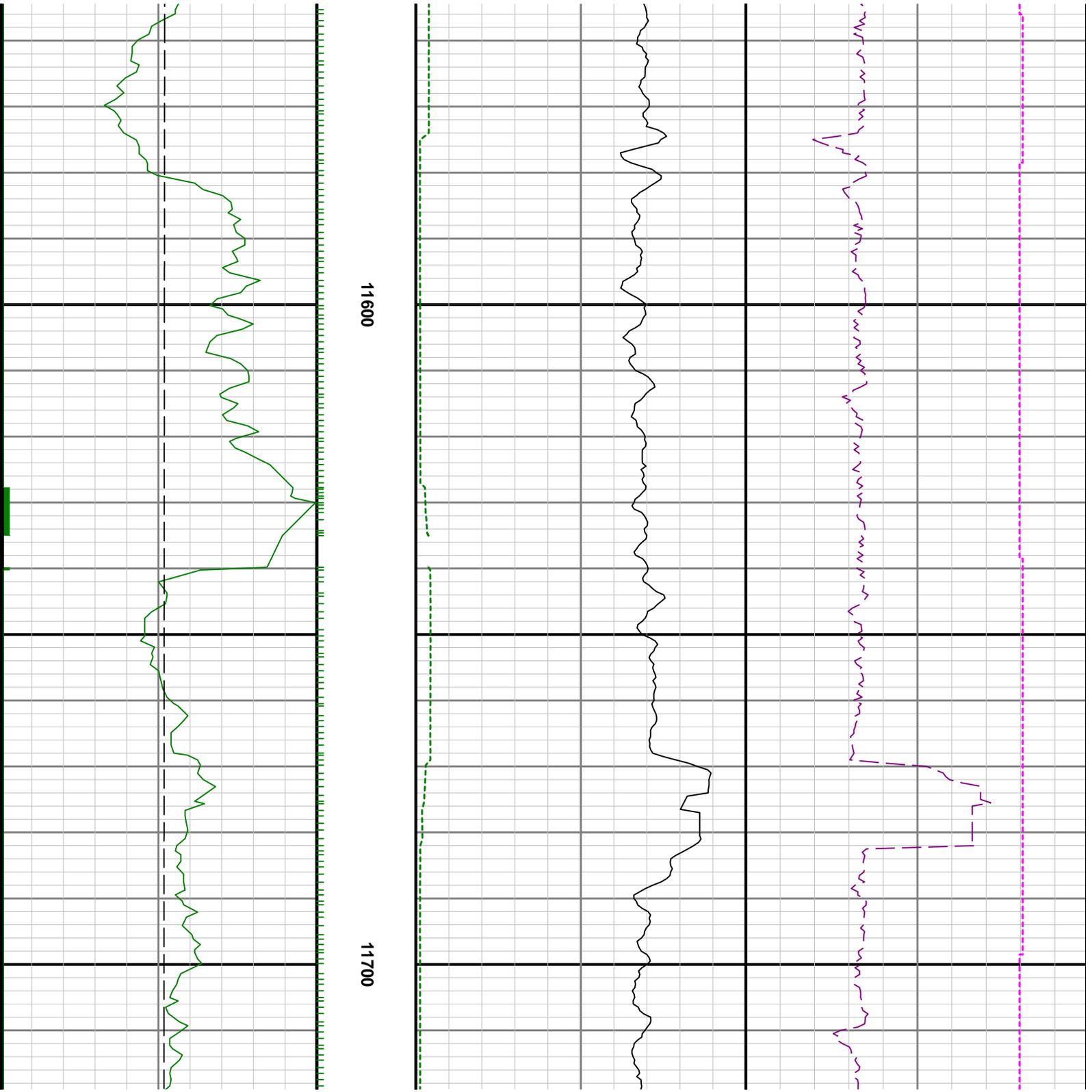


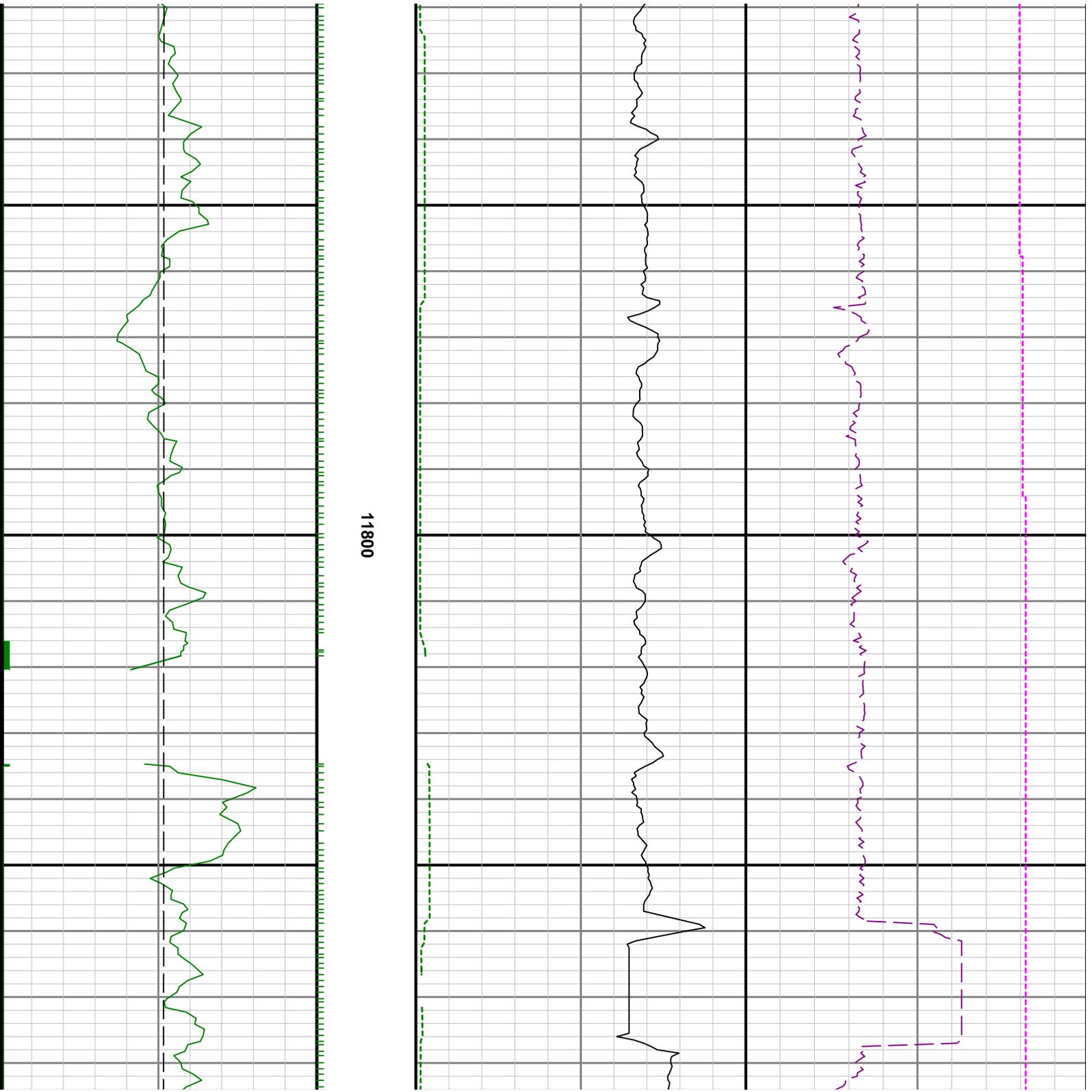


11400

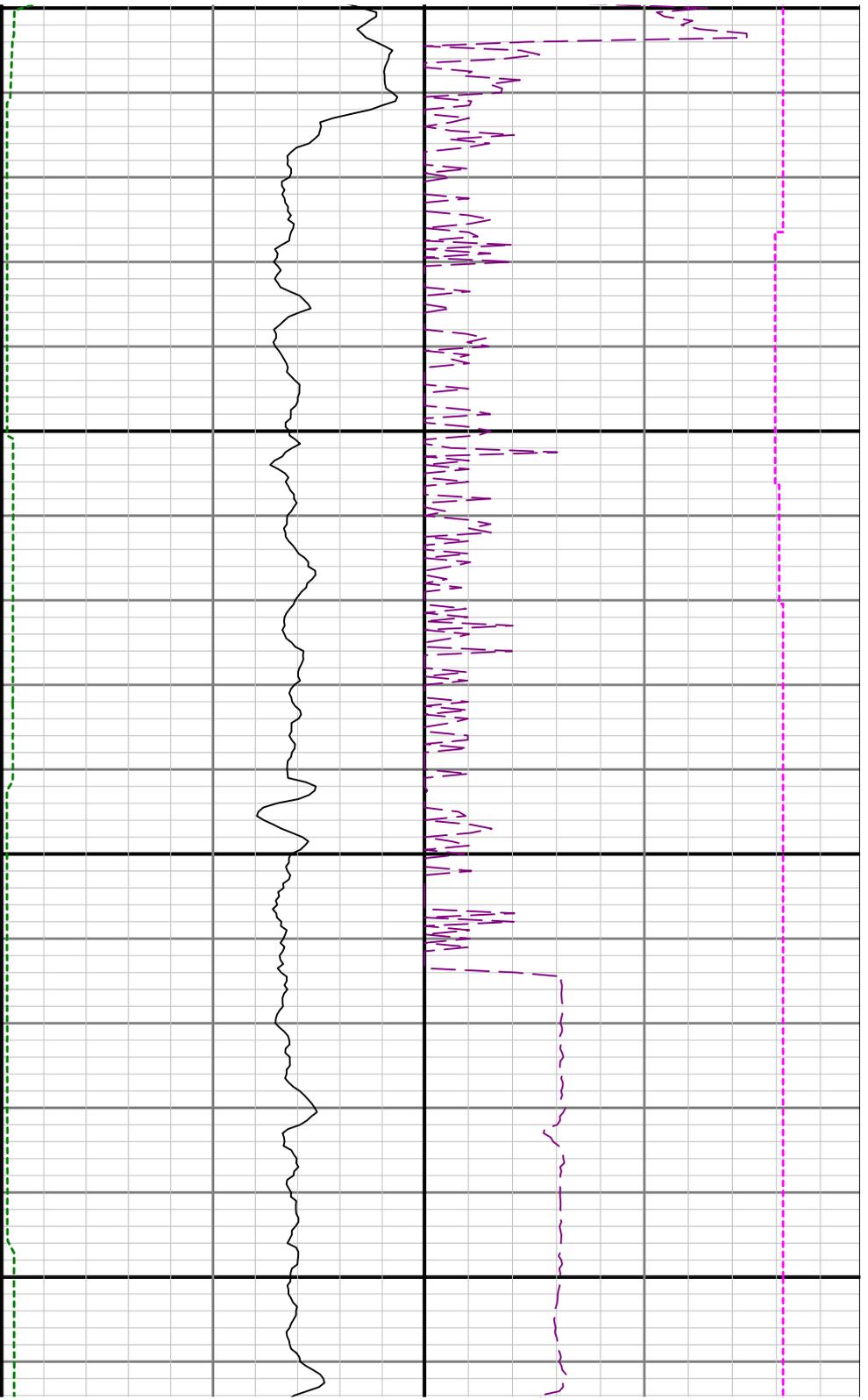
11500







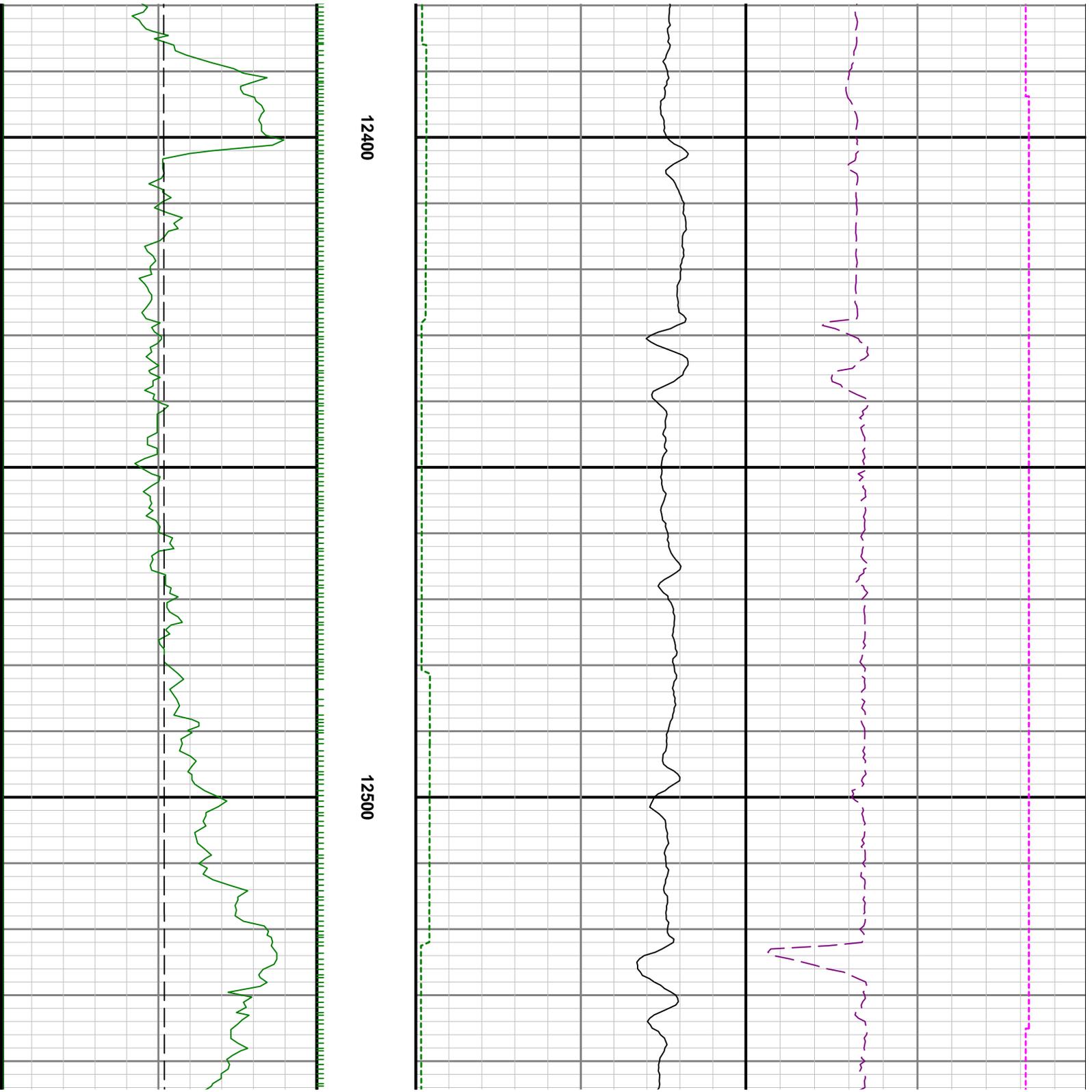


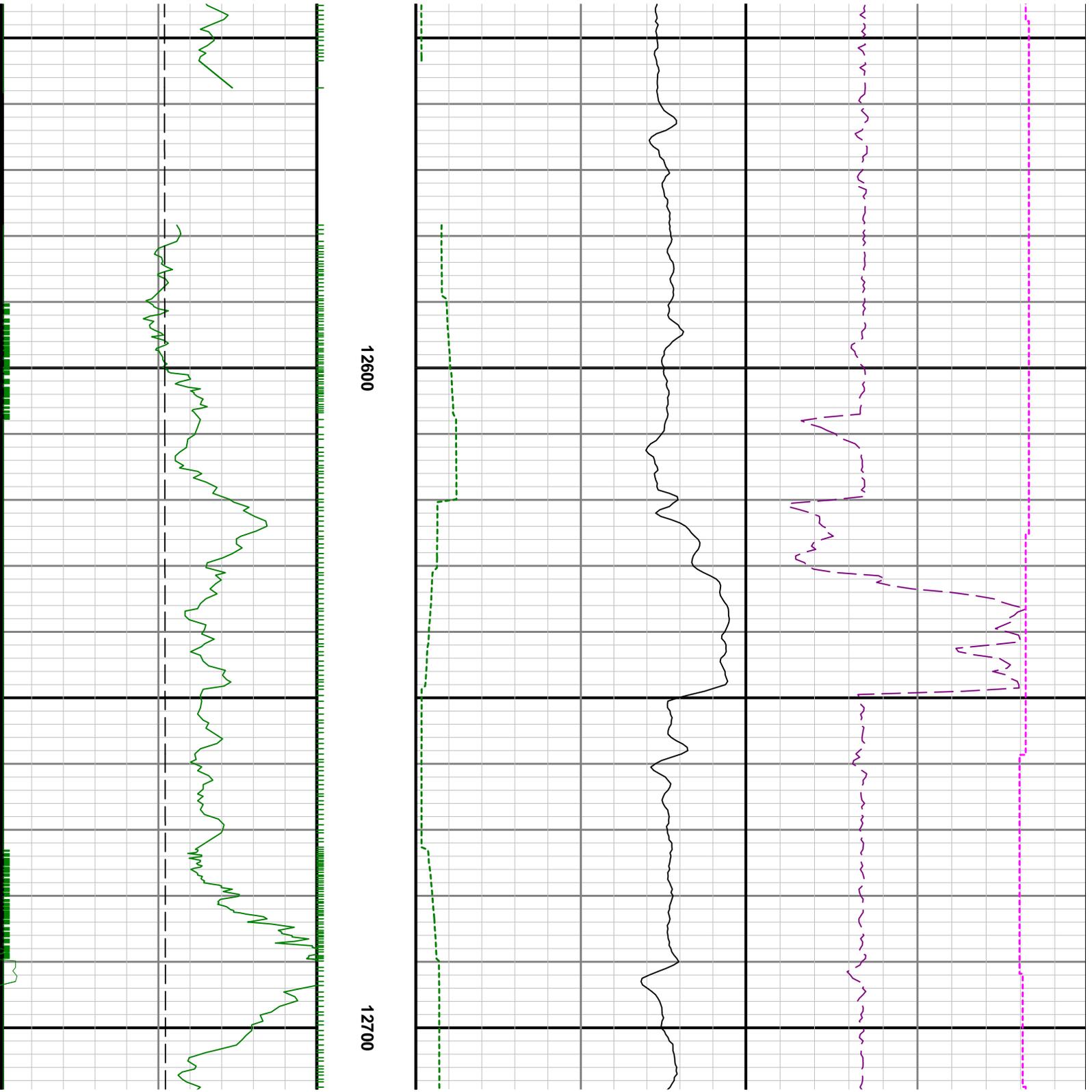


12100

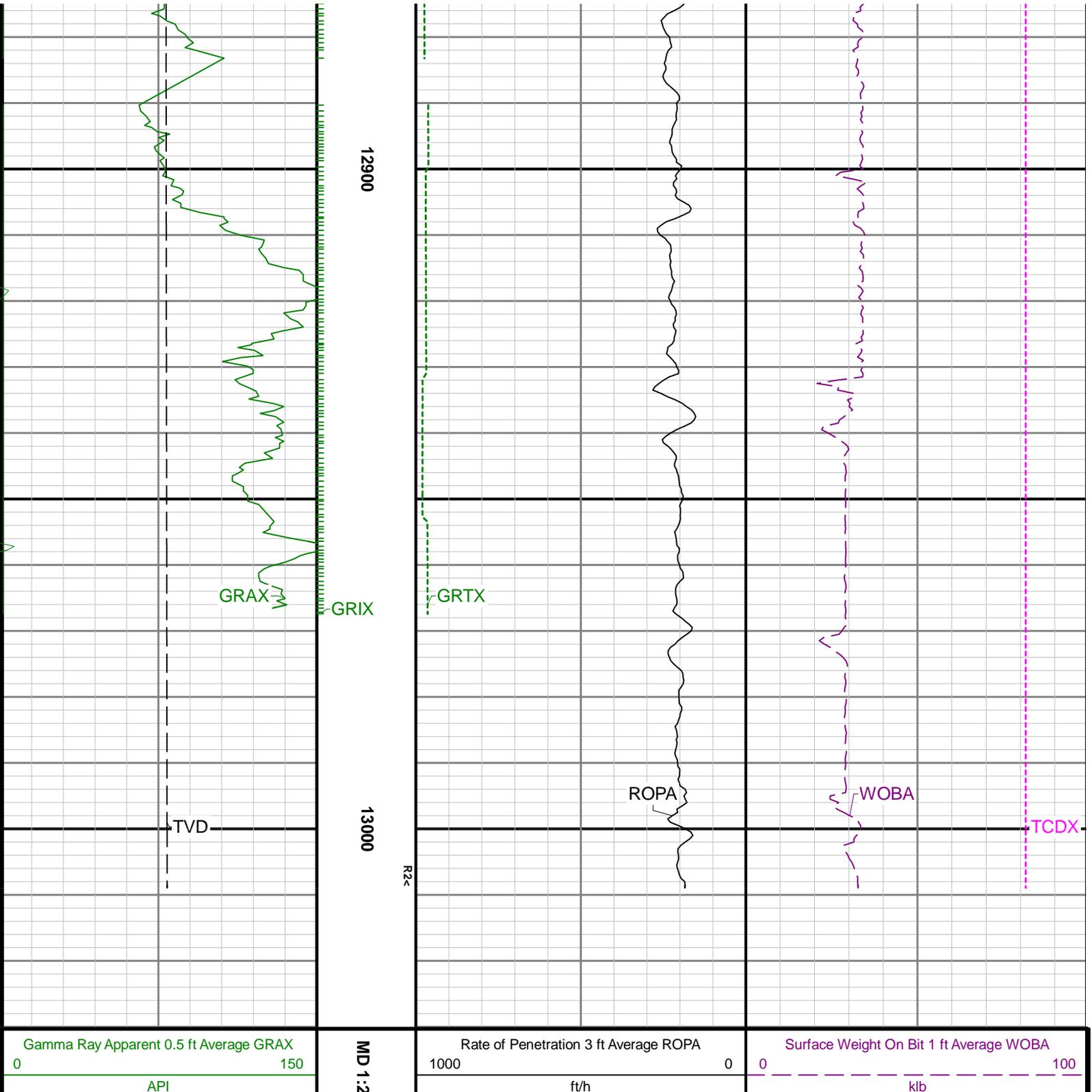
12200











True Vertical Depth TVD  
8000 ft 6400

240 feet

Gamma Ray Time Since Drilled GRTX  
0 min 600

Downhole Temperature TCDX  
0 degF 300