



2	ATC_SU	12292939	Near Bit VSS	5.95	6.75	7.000	4.350
2	ATC_MWD	12899370	Gamma (single)	2.75	12.92	7.000	3.250
2	ATC_MWD	12899370	Directional (mag)	12.28	22.45	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 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
- Baker Hughes Run 1 utilized a 6 3/4 inch NaviGamma service (Gamma Ray and Directional) behind a 8 1/2 inch bit and rotary steerable assembly from 1939 to 5829 feet MD (1939 to 5735 feet TVD).
- 3
- Baker Hughes Run 2 utilized a 6 3/4 inch NaviGamma service (Gamma Ray and Directional) behind a 8 1/2 inch bit and rotary steerable assembly from 5829 to 10973 feet MD (5735 to 6067 feet TVD).

Remarks

Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	5817.00	8.500	1	The interval from 5817 to 5829 ft MD (5723 to 5735 ft TVD) was logged 7 hours after being drilled, due to tripping out of the hole to change out BHA .
2	10961.00	8.500	2	The interval from 10961 to 10973 feet MD (6067 feet TVD) was not logged due to sensor to bit offset at well TD.

Curve Mnemonics

Presented Curves	Description	Units
ROPA	Depth Averaged ROP 3 ft Average	ft/h
TVD	True Vertical Depth	ft
WOBA	Weight On Bit, Average 1 ft Average	klb
GRAM	Gamma Ray - Apparent 0.5 ft Average	API
GRIM	Gamma Ray Data Point Indicator	unitless
GRTM	Gamma Time Since Drilled	min
TCDM	Downhole Temperature	degF



Company Well

Interval

Created

Noble Energy

Hazzard Federal LC22-735

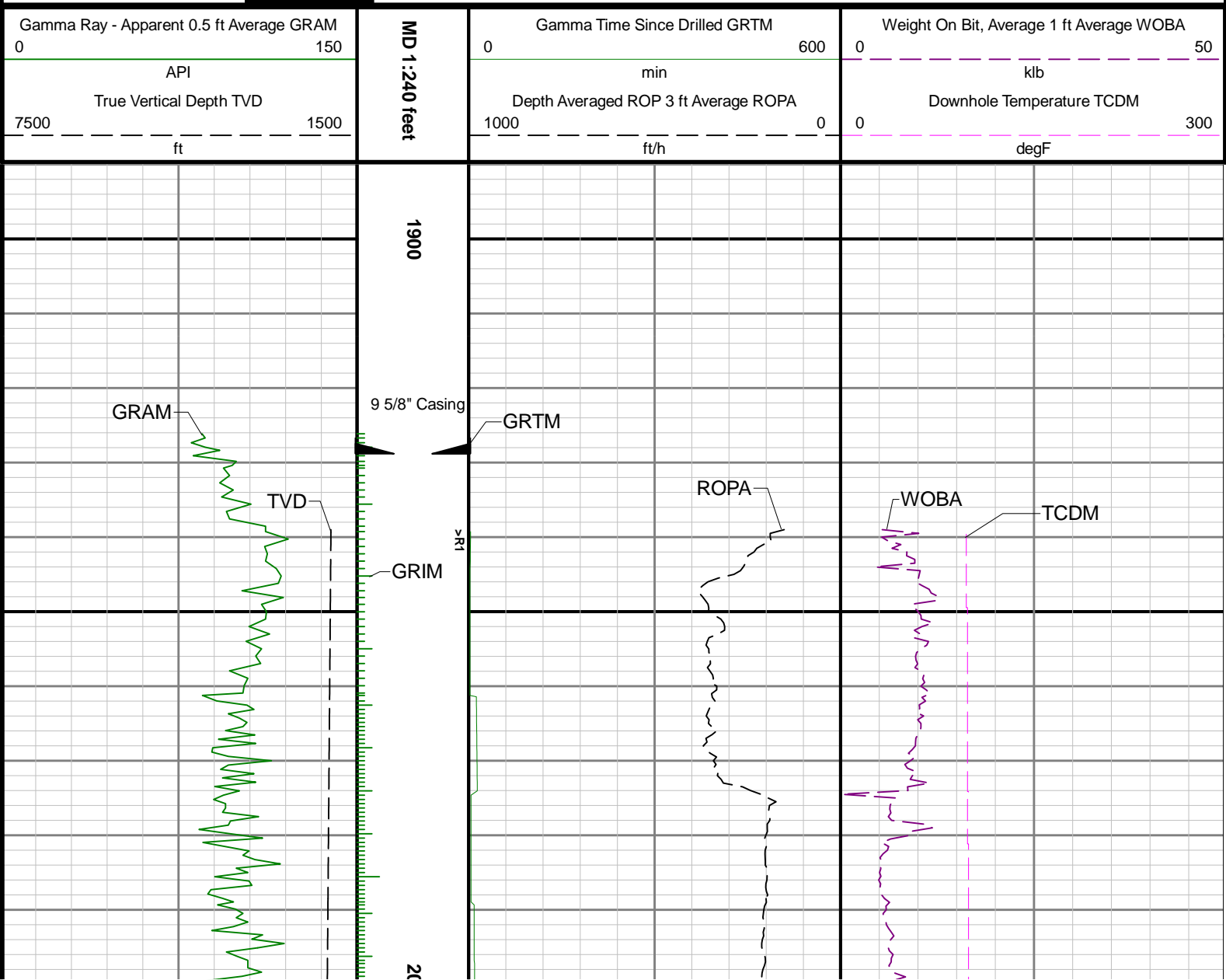
Date From: 2017-03-05 12:09:59

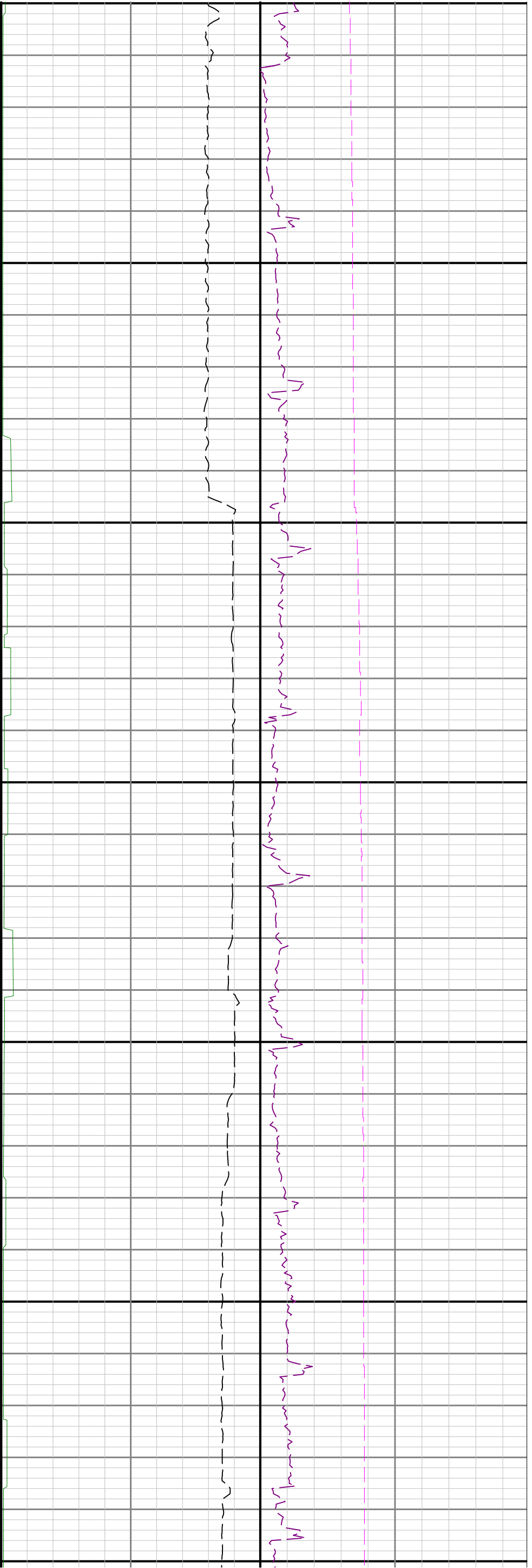
Date To: 2017-03-06 09:13:00

2017-03-28 09:26

Top: 1913.00

Bottom: 10973.00



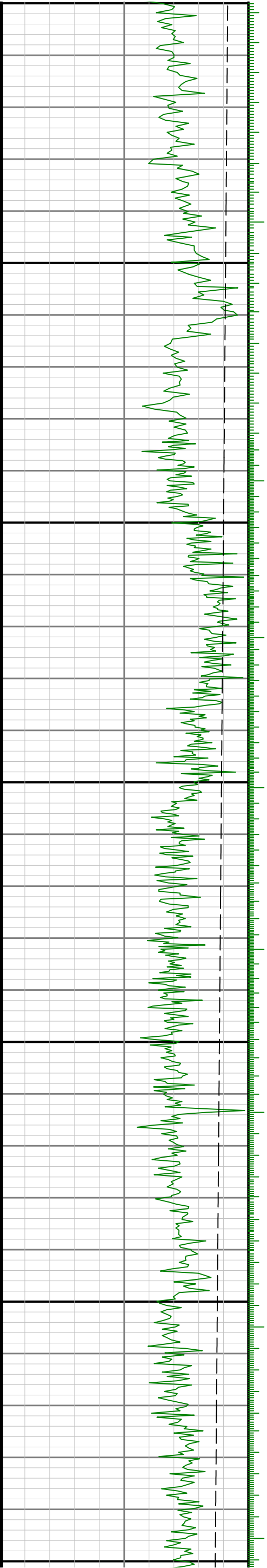


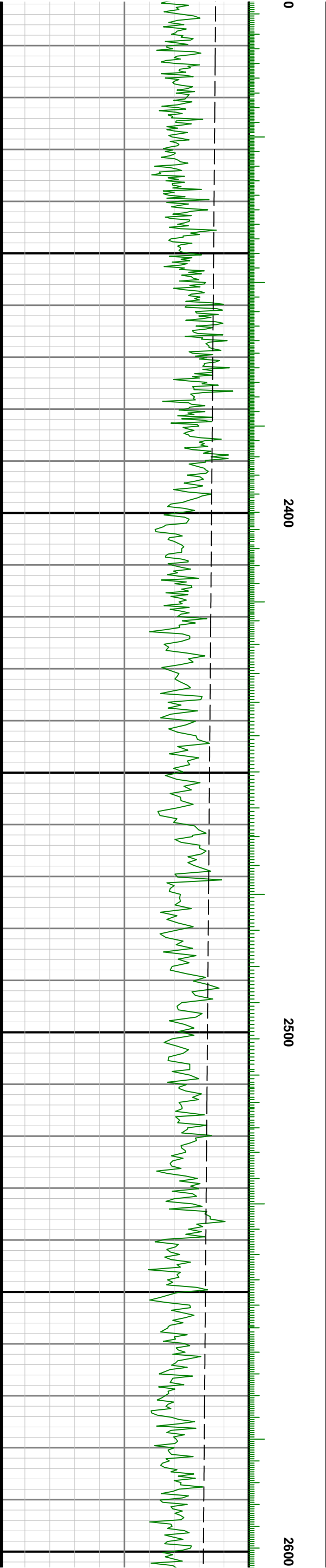
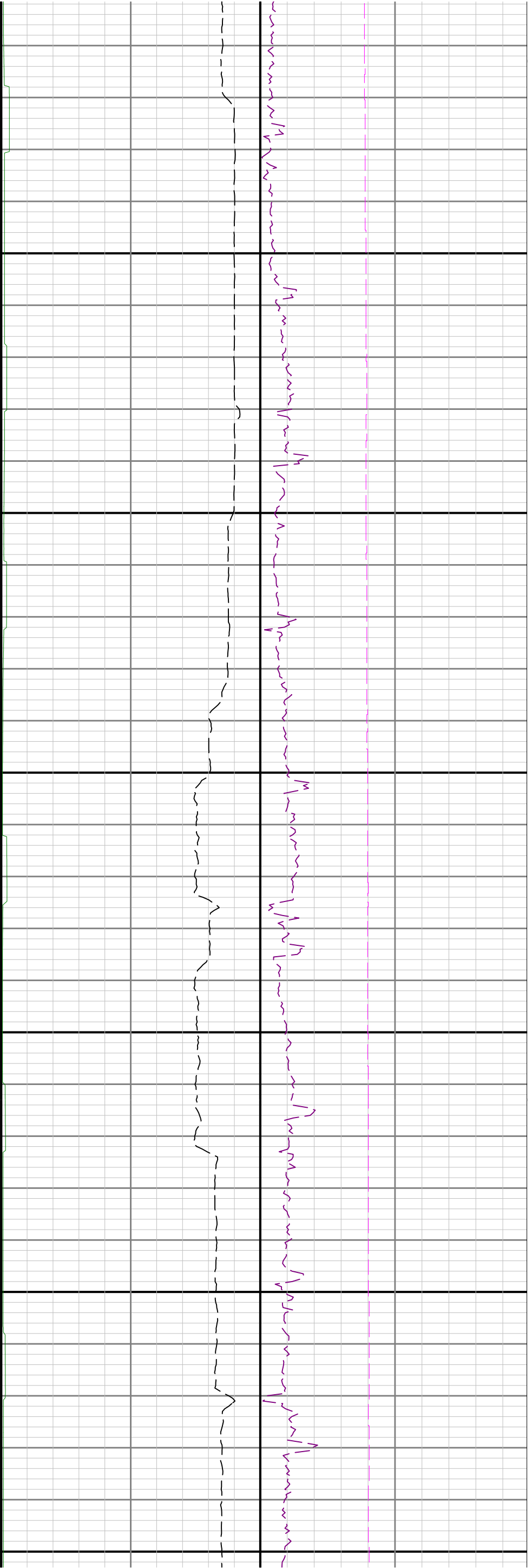
00

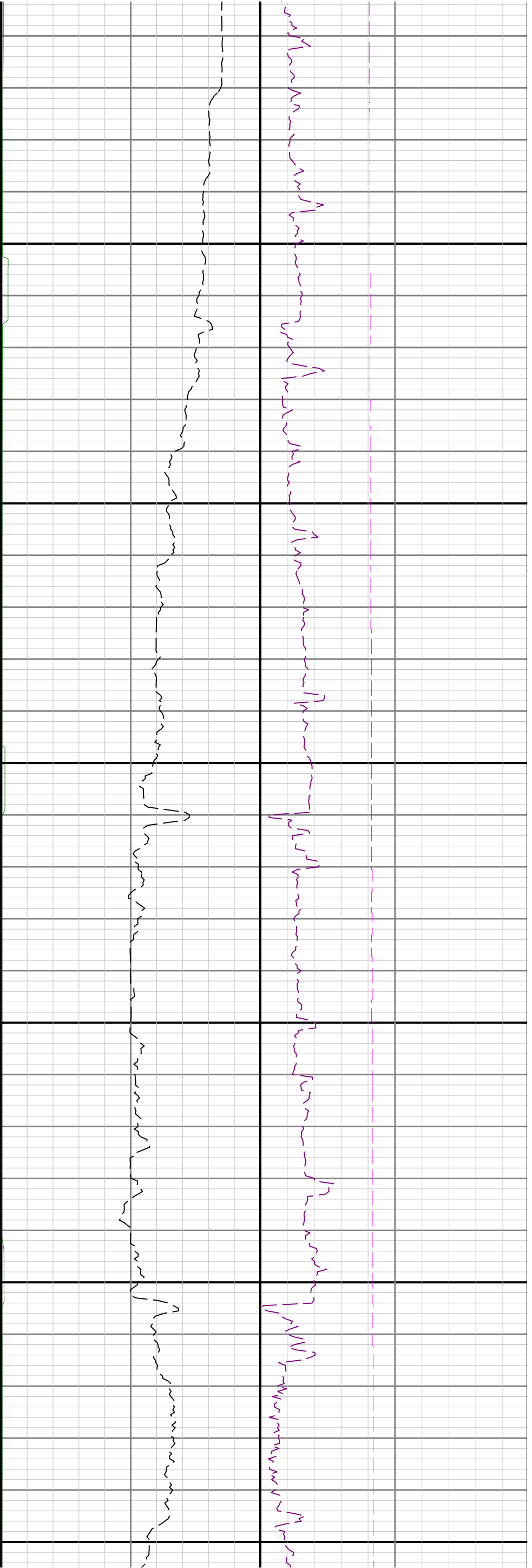
2100

2200

2300



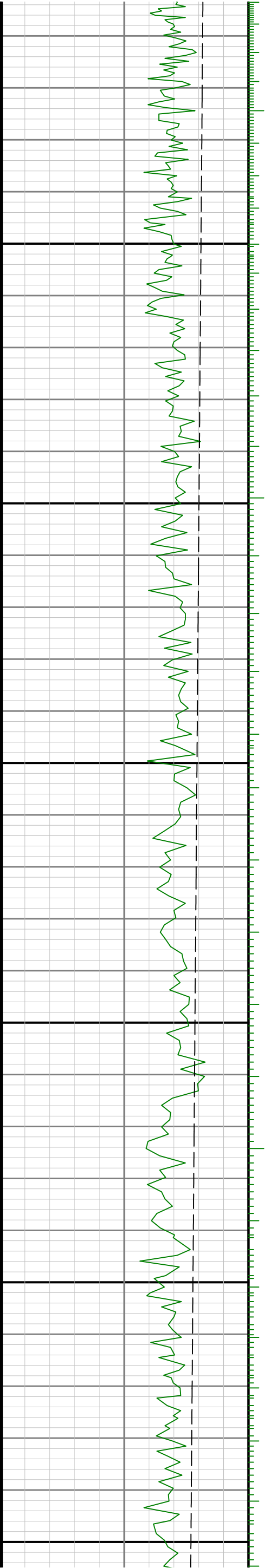


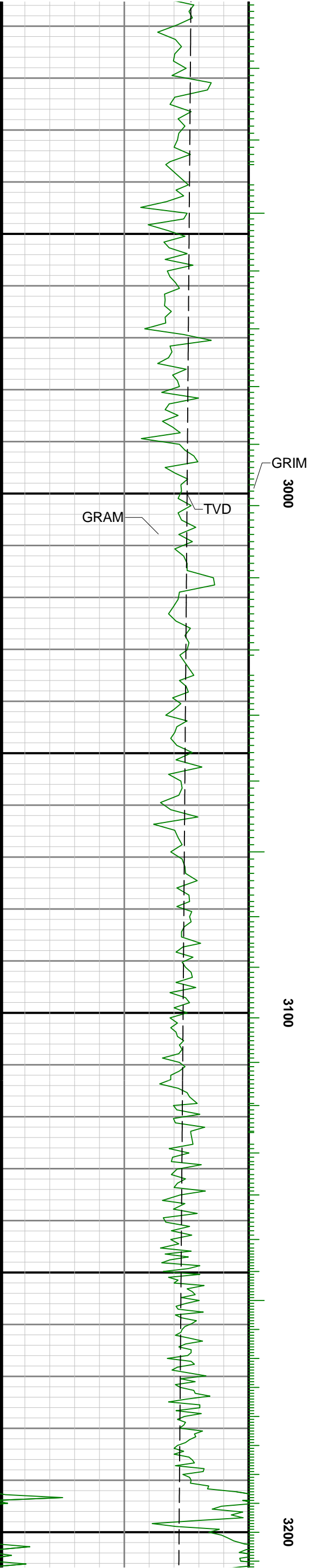
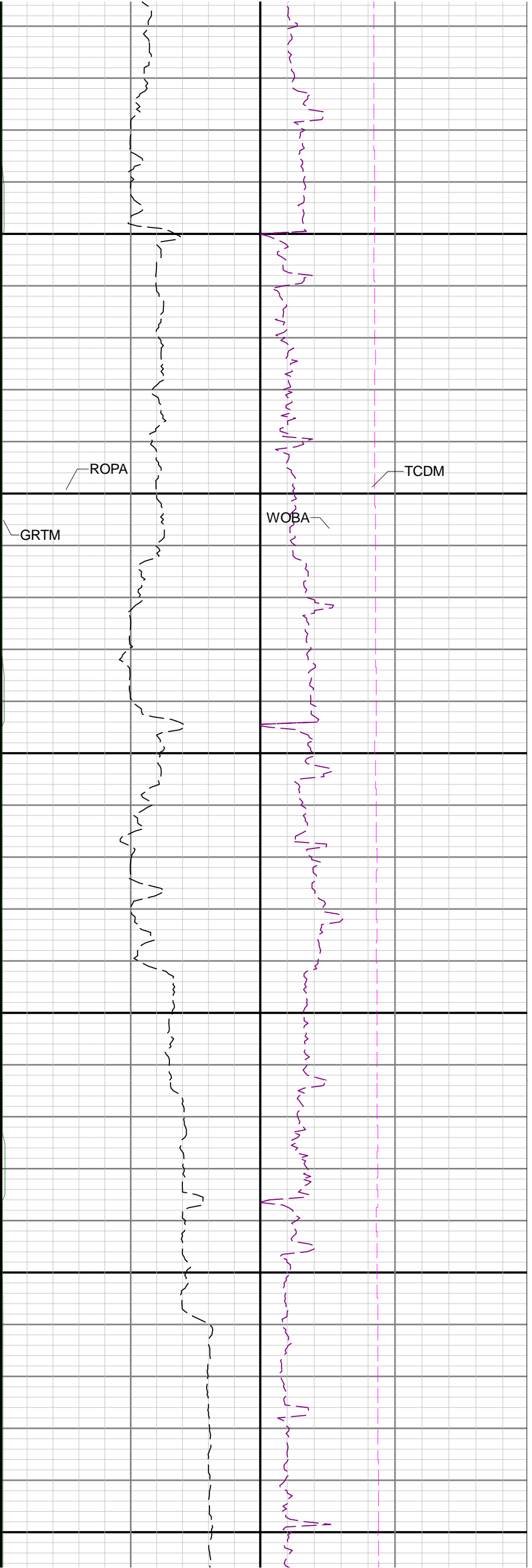


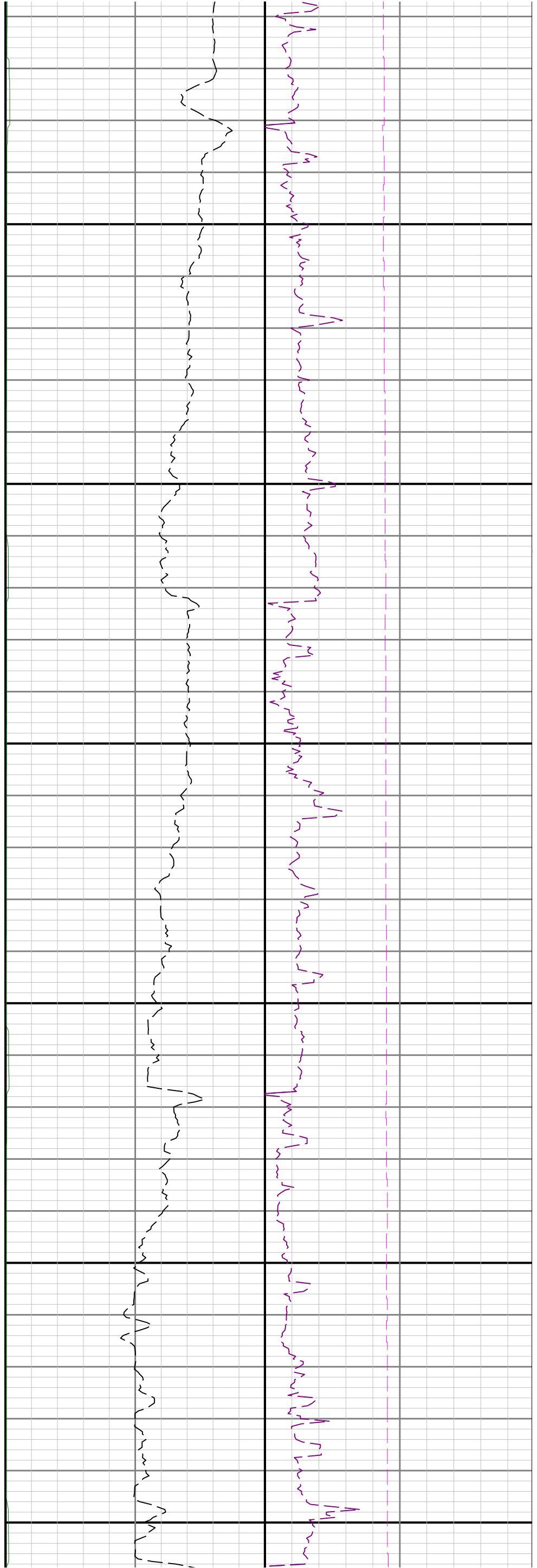
2700

2800

2900



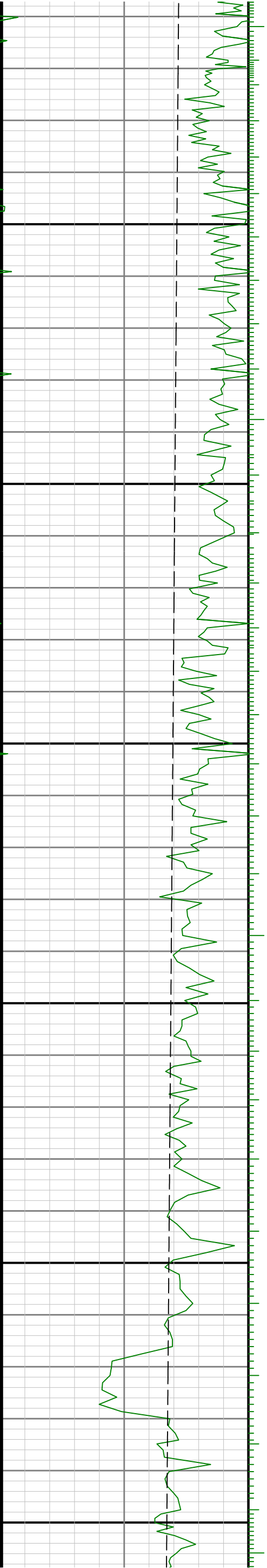


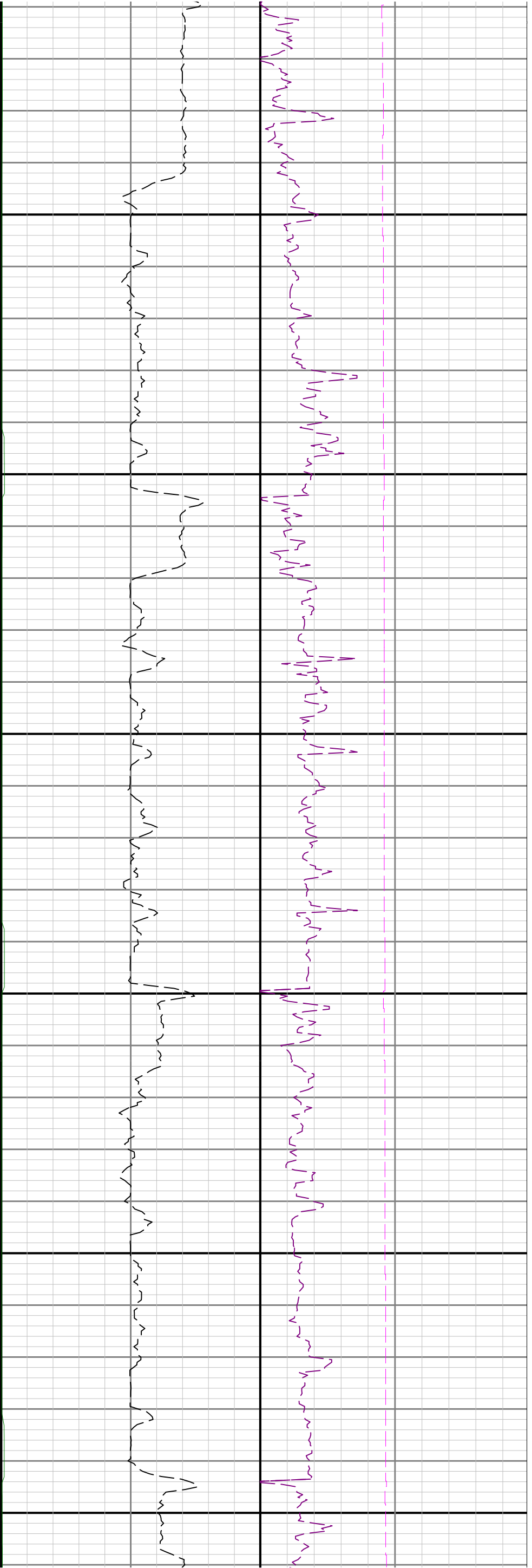


3300

3400

3500

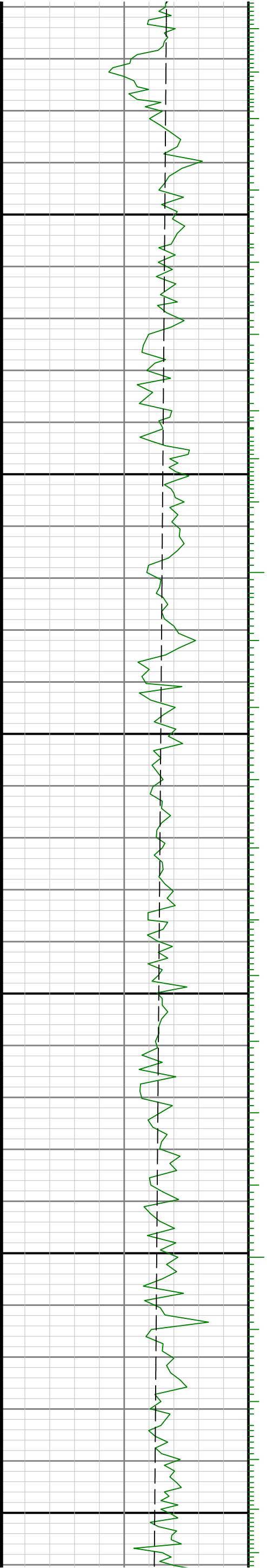




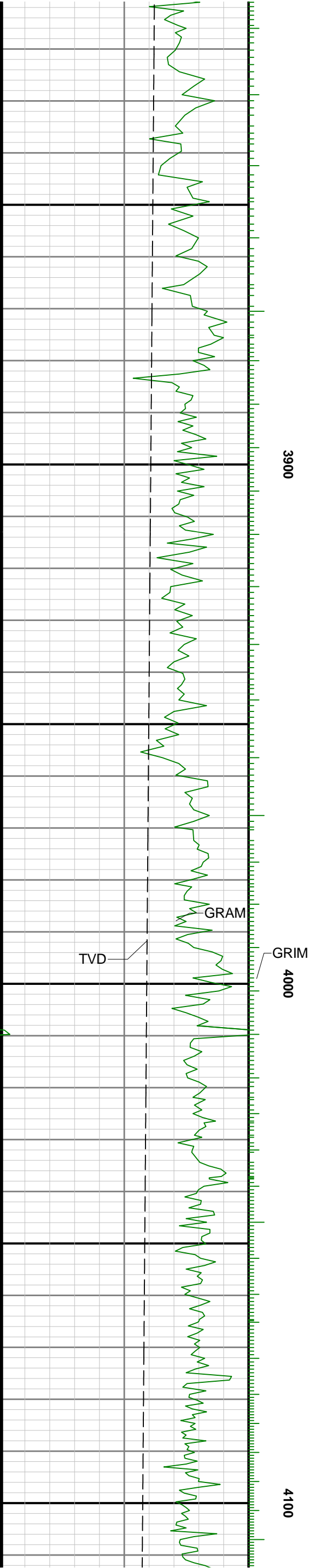
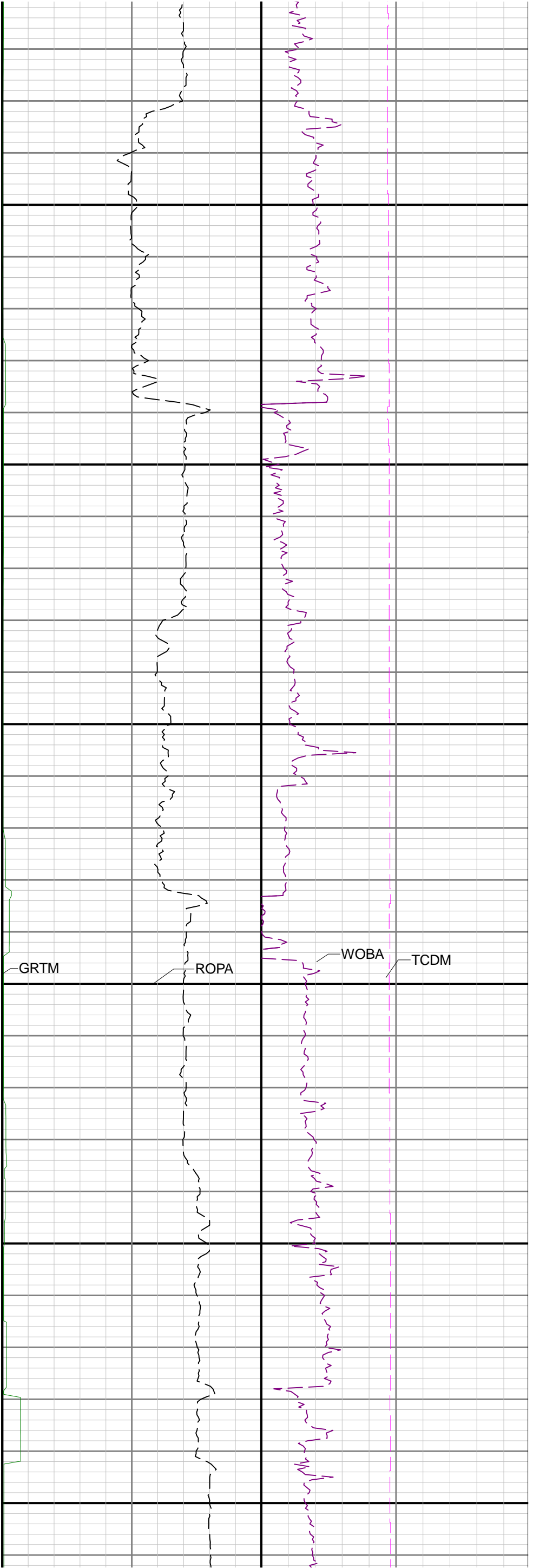
3600

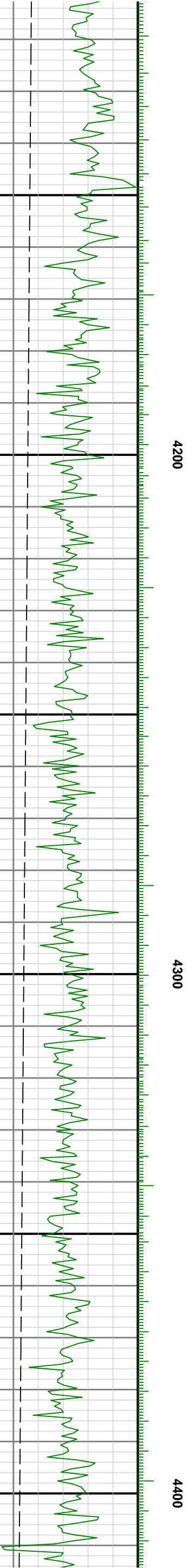
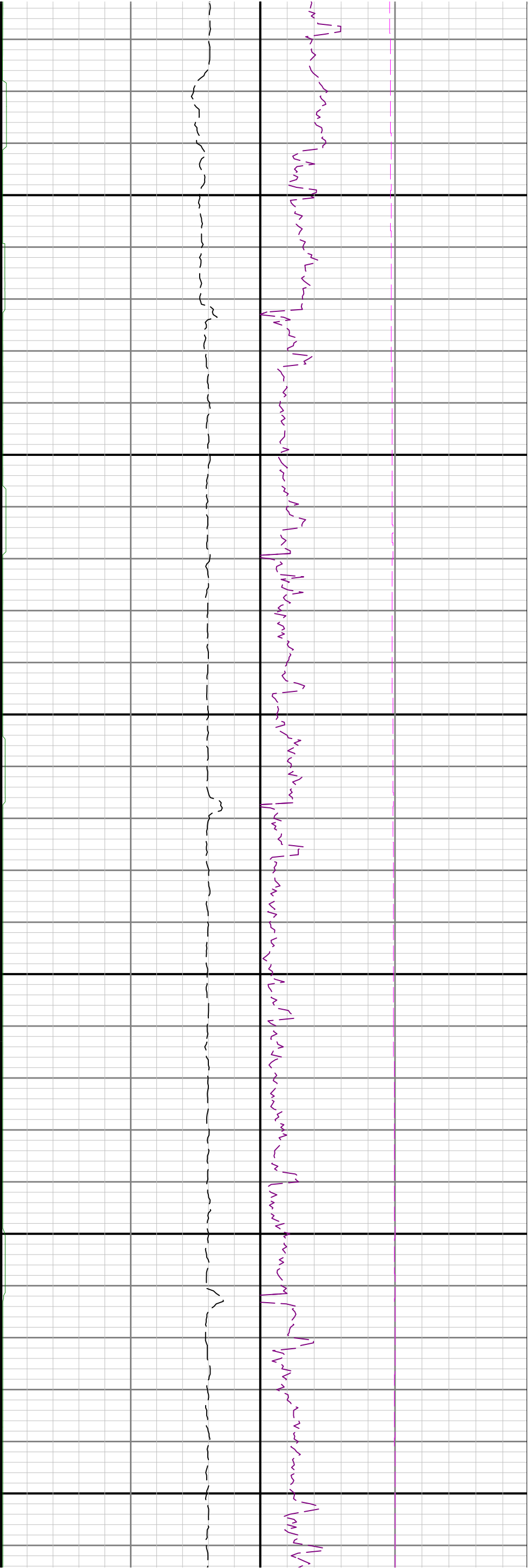
3700

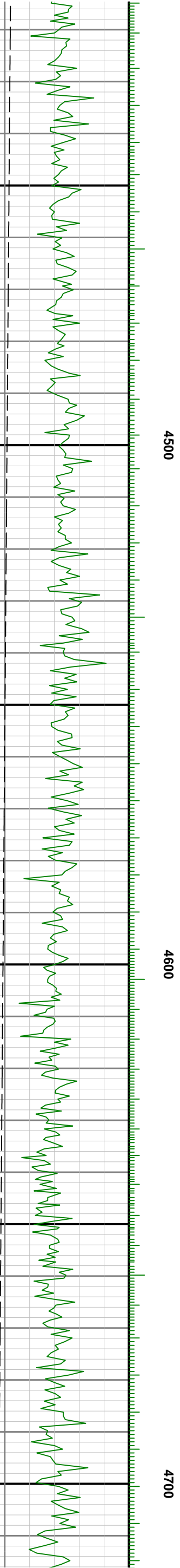
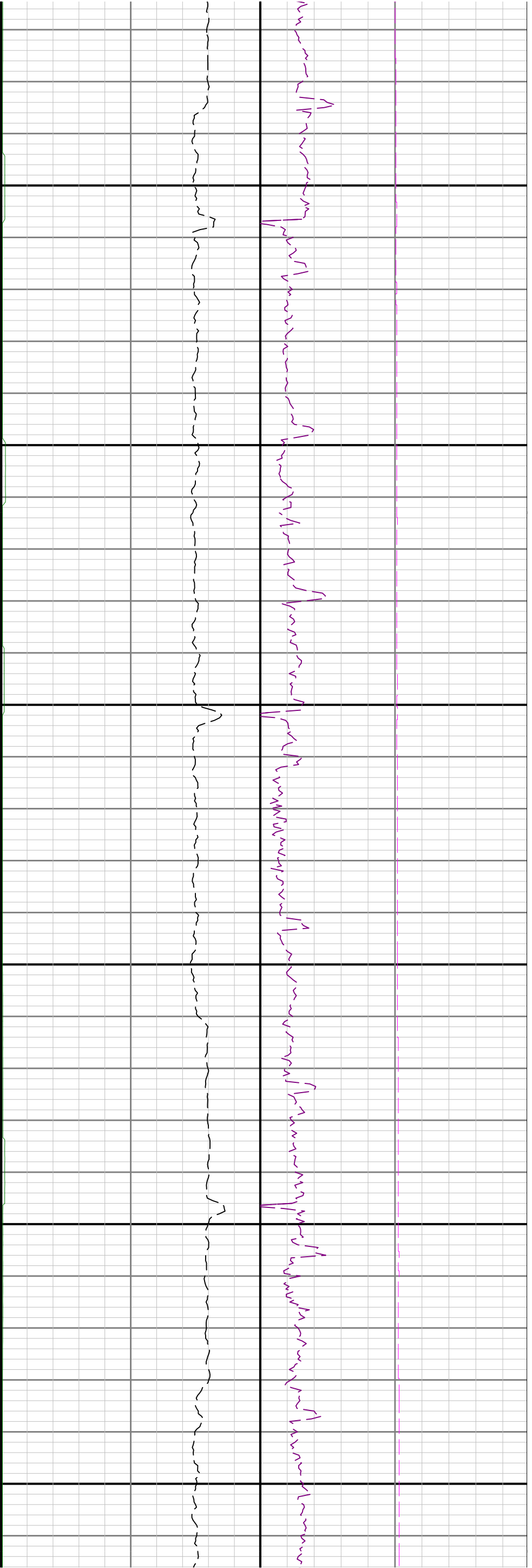
3800

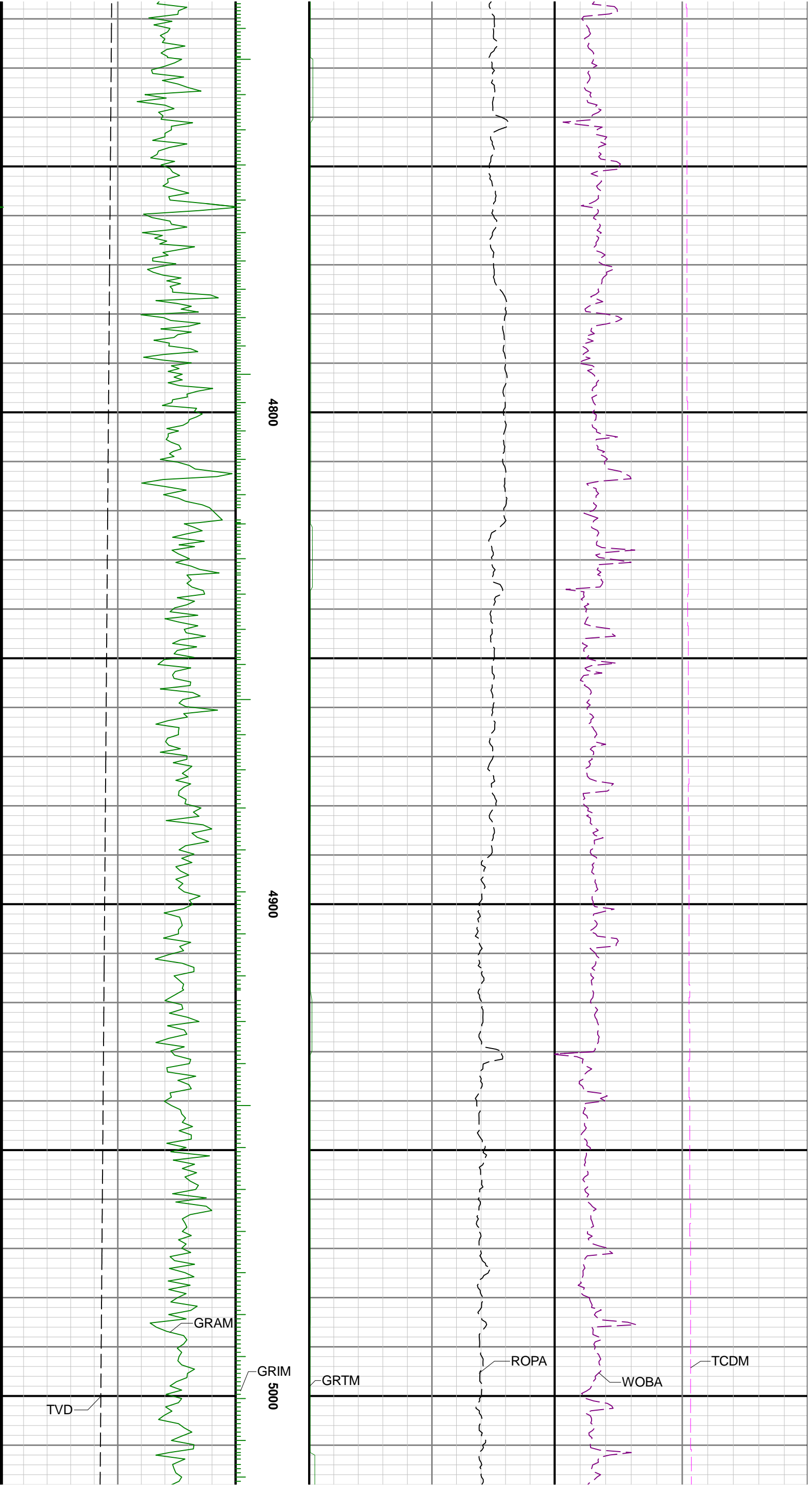


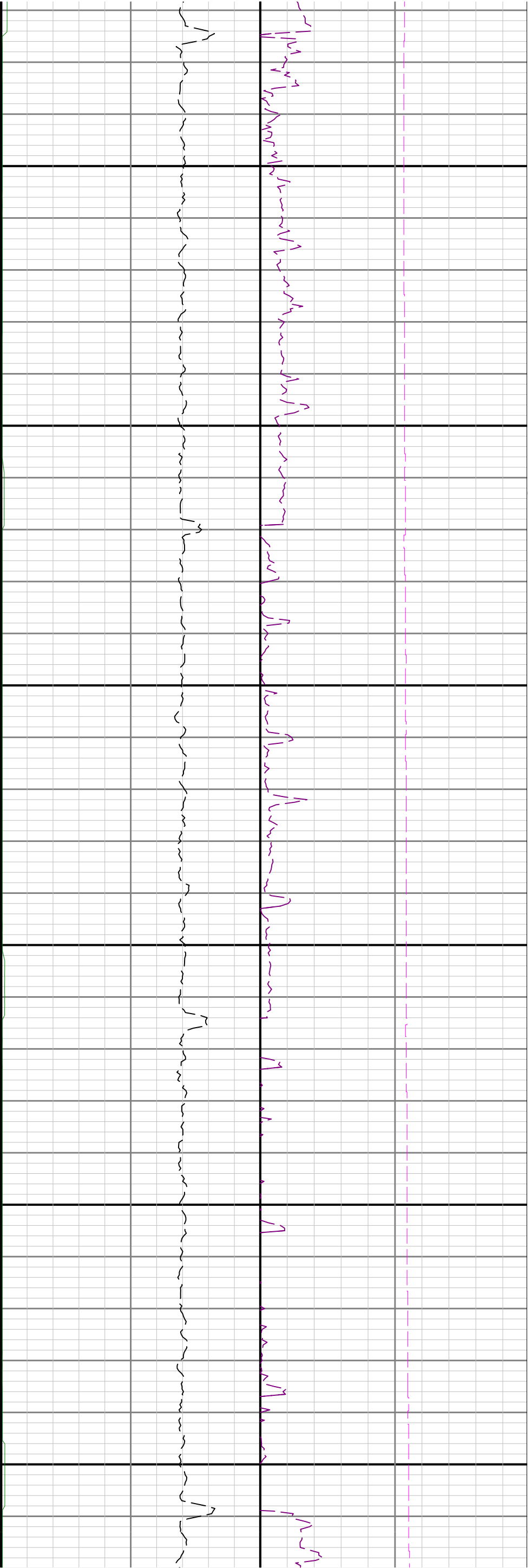








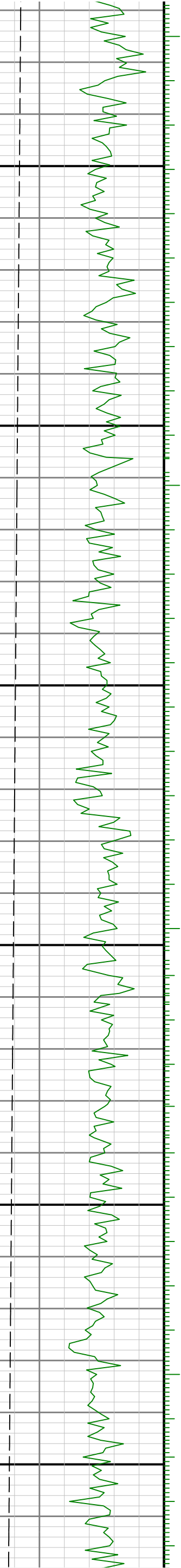


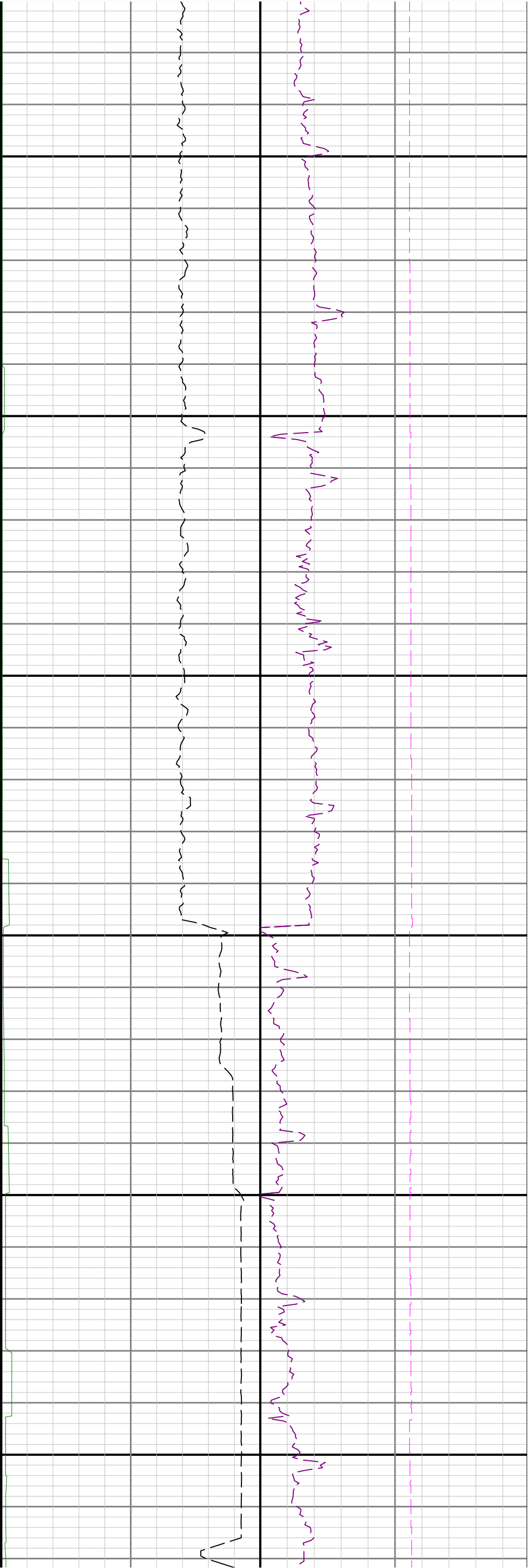


5100

5200

5300

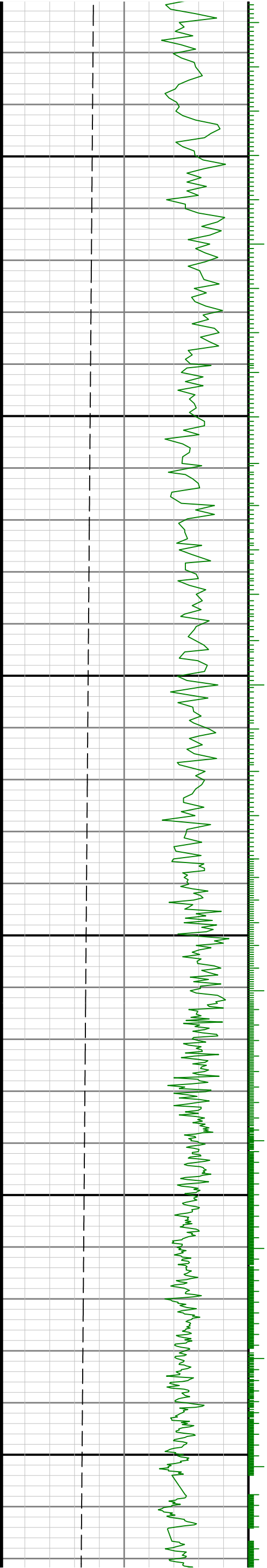


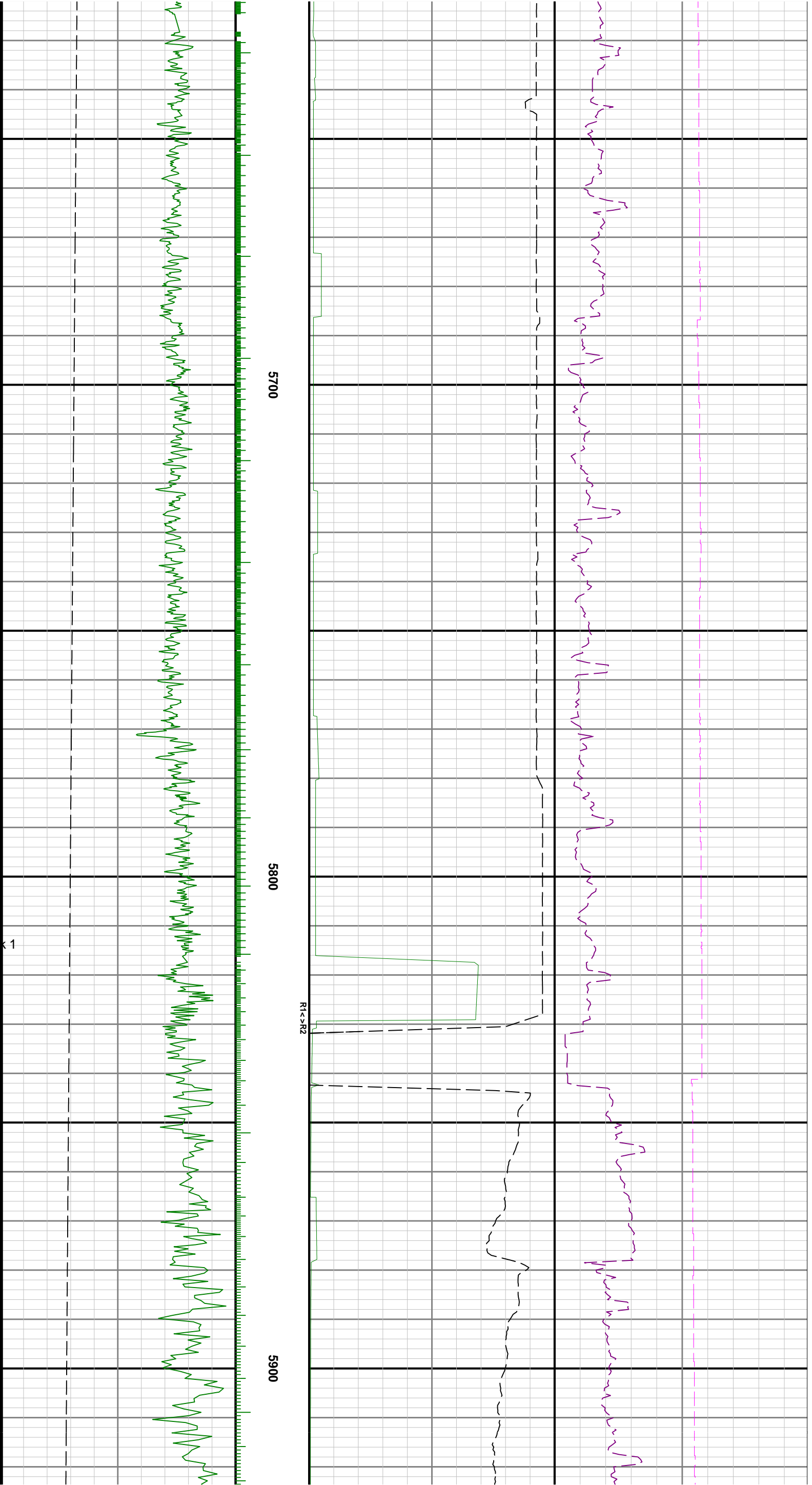


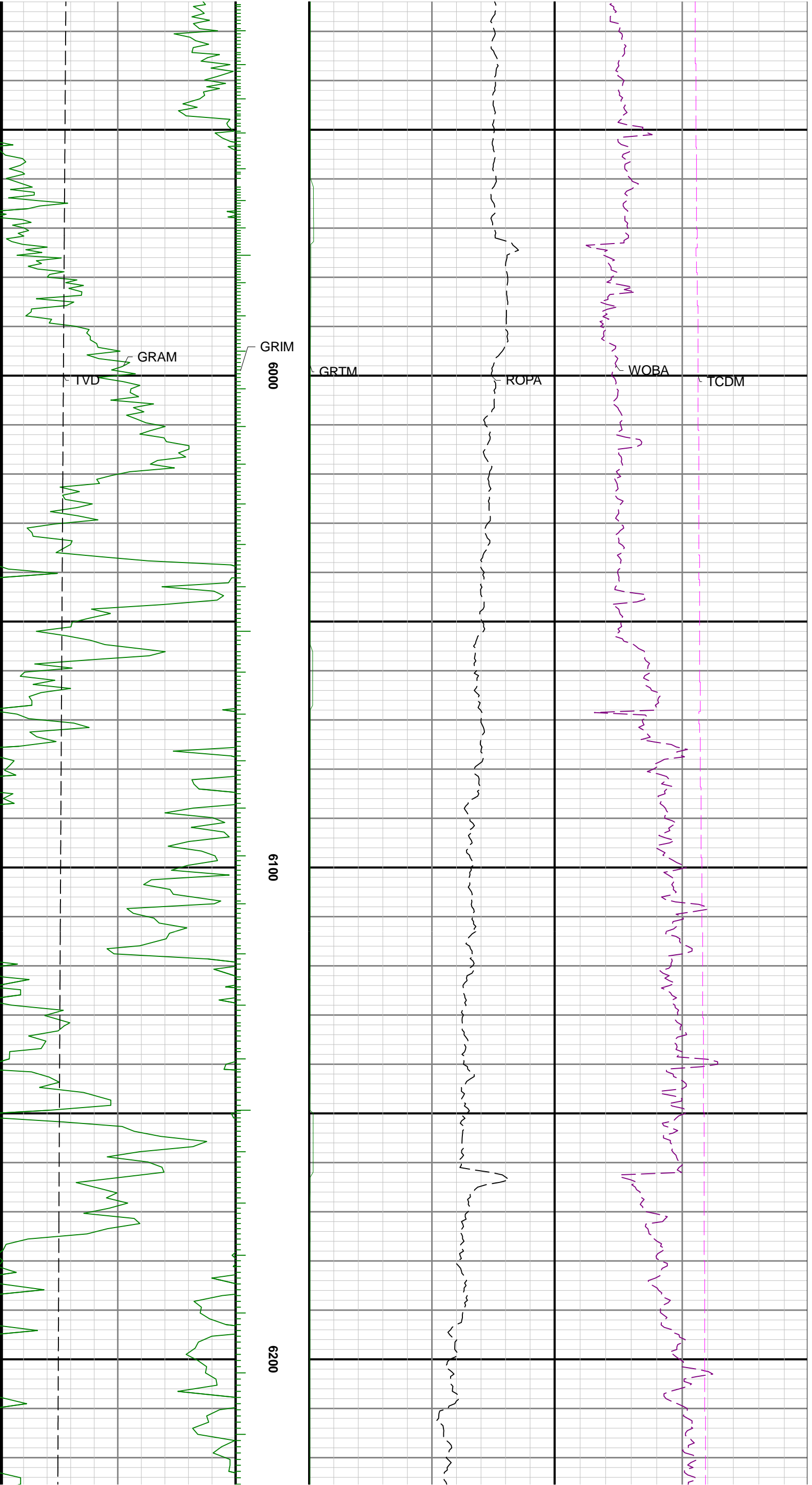
5400

5500

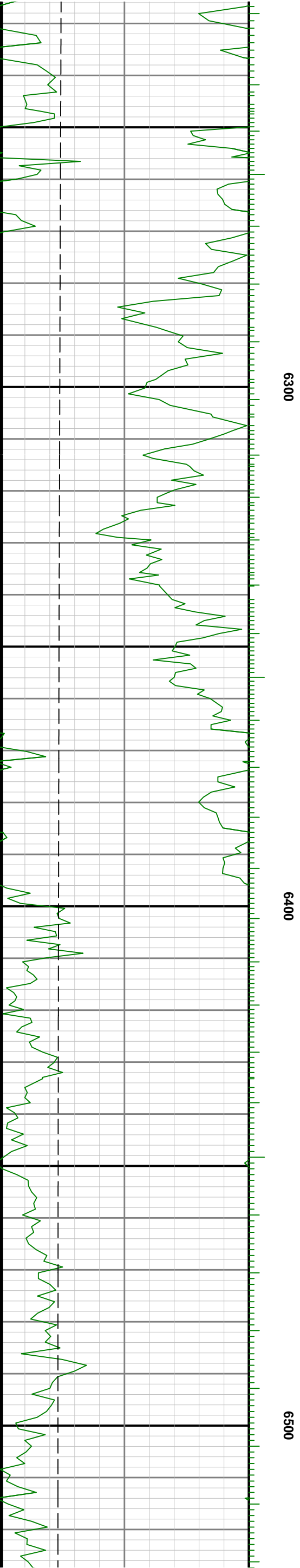
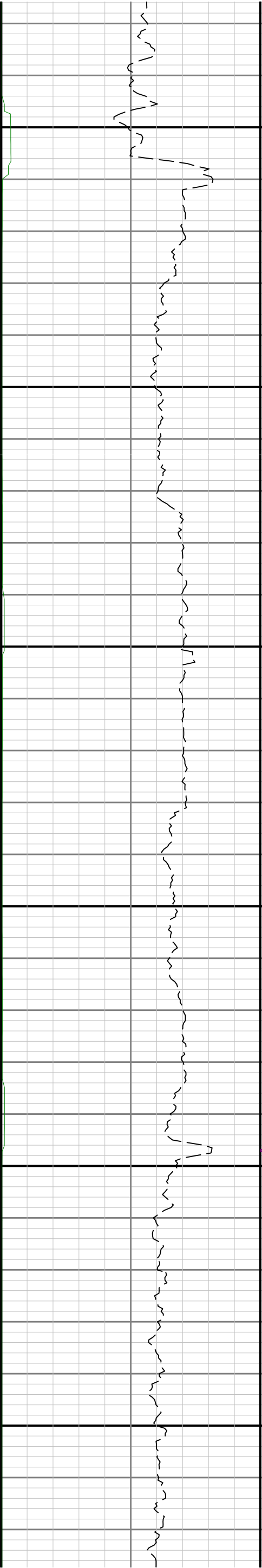
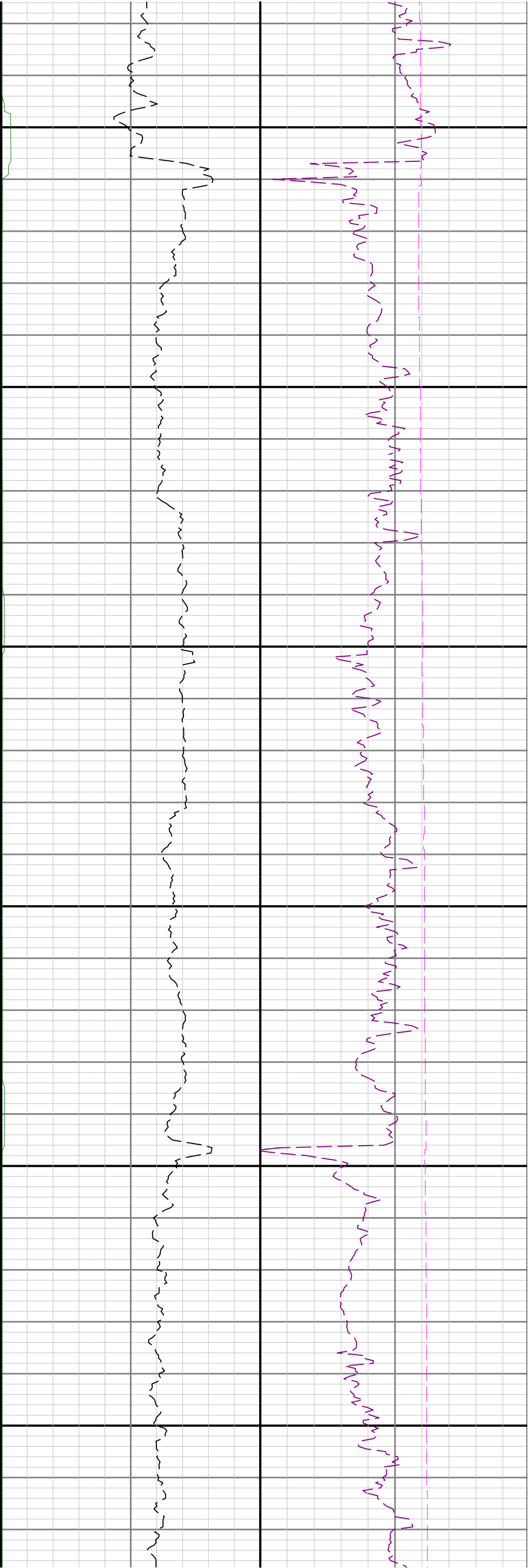
5600

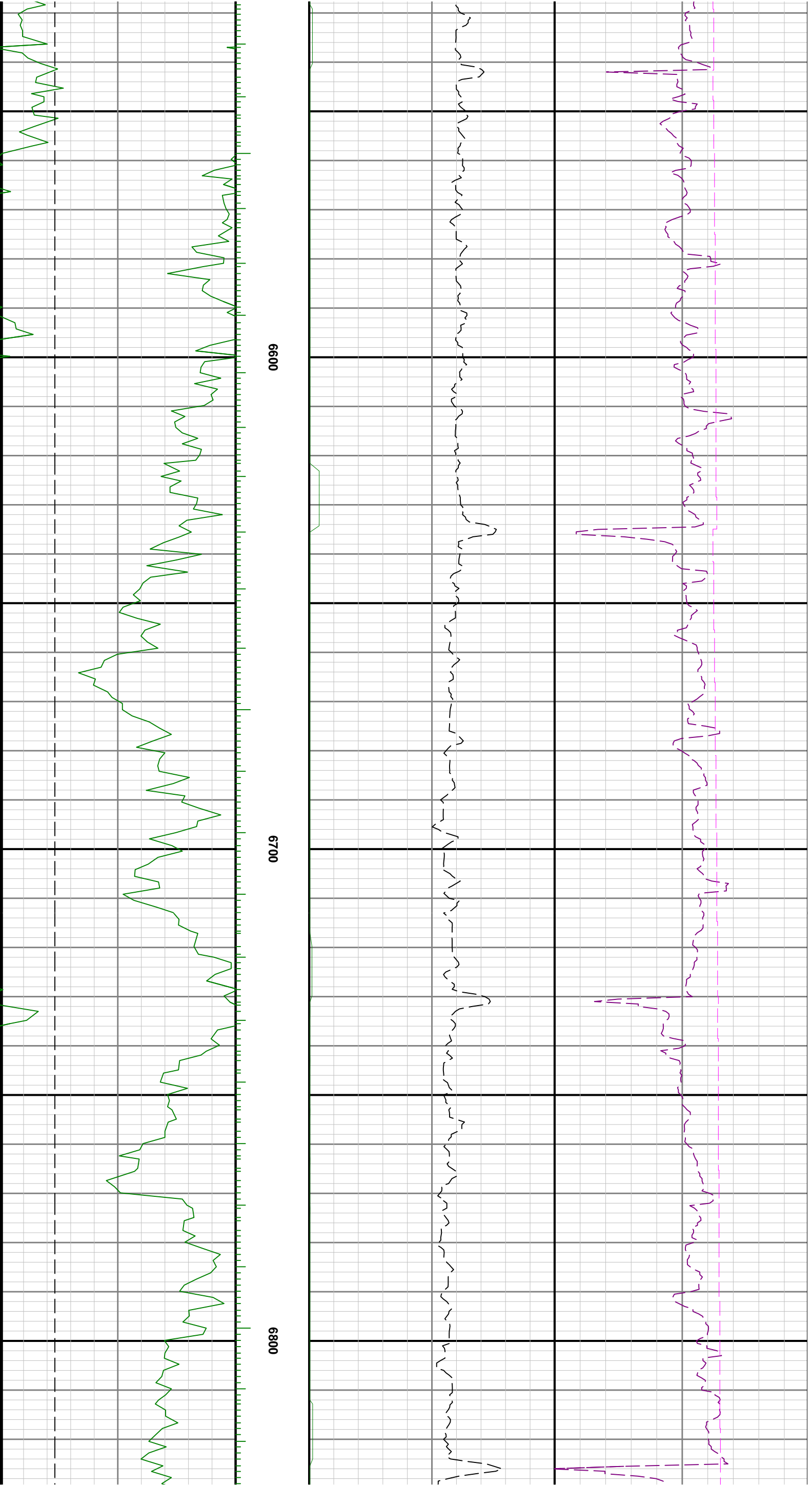


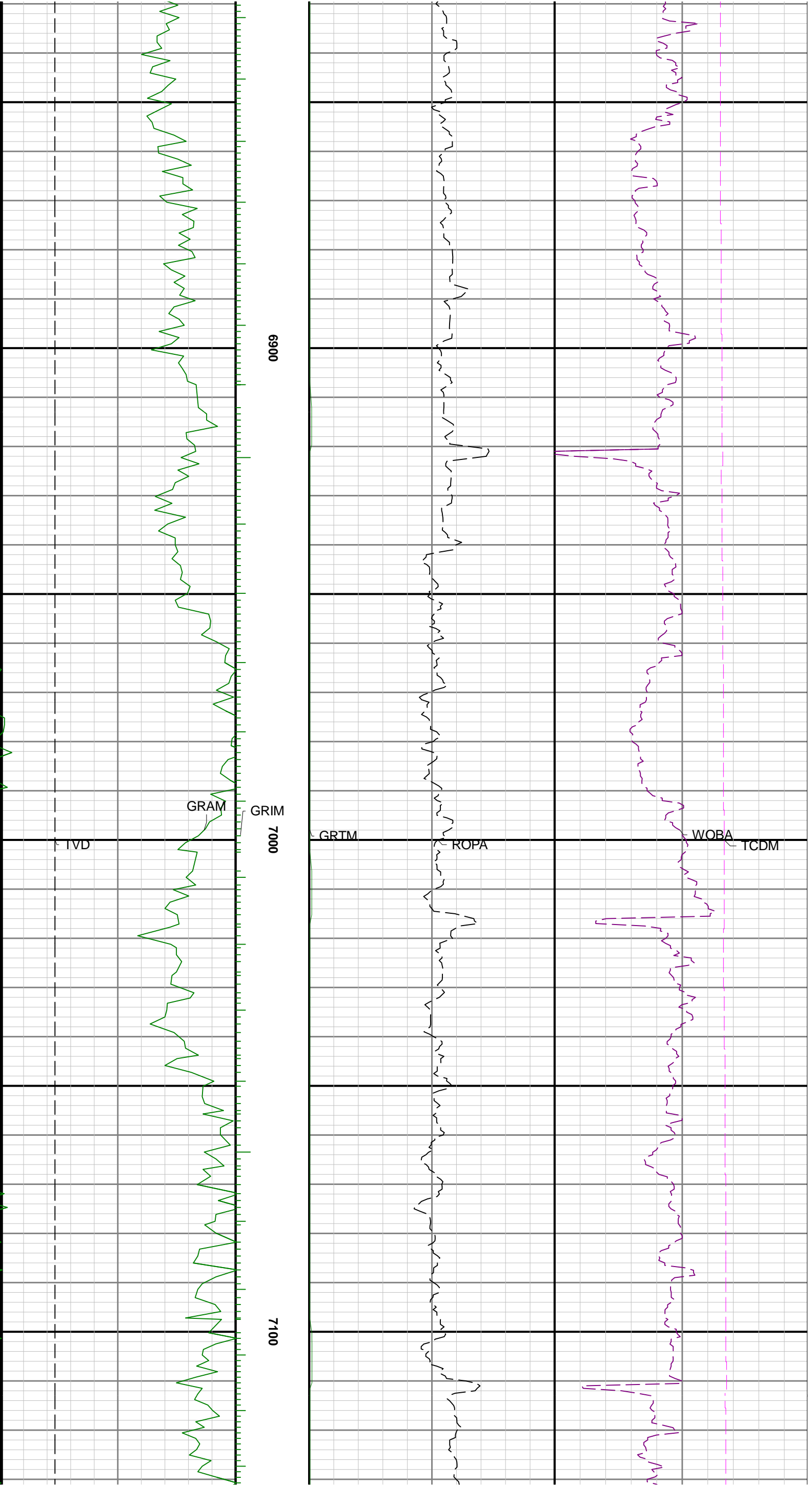


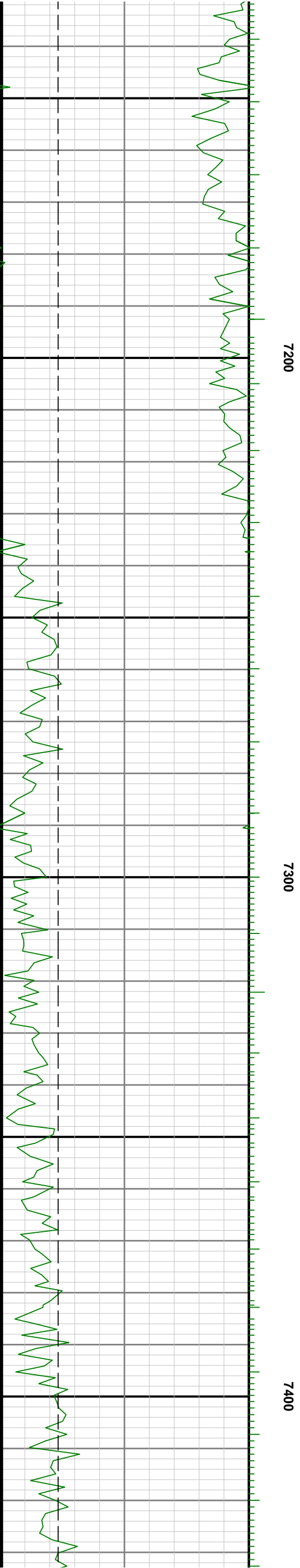
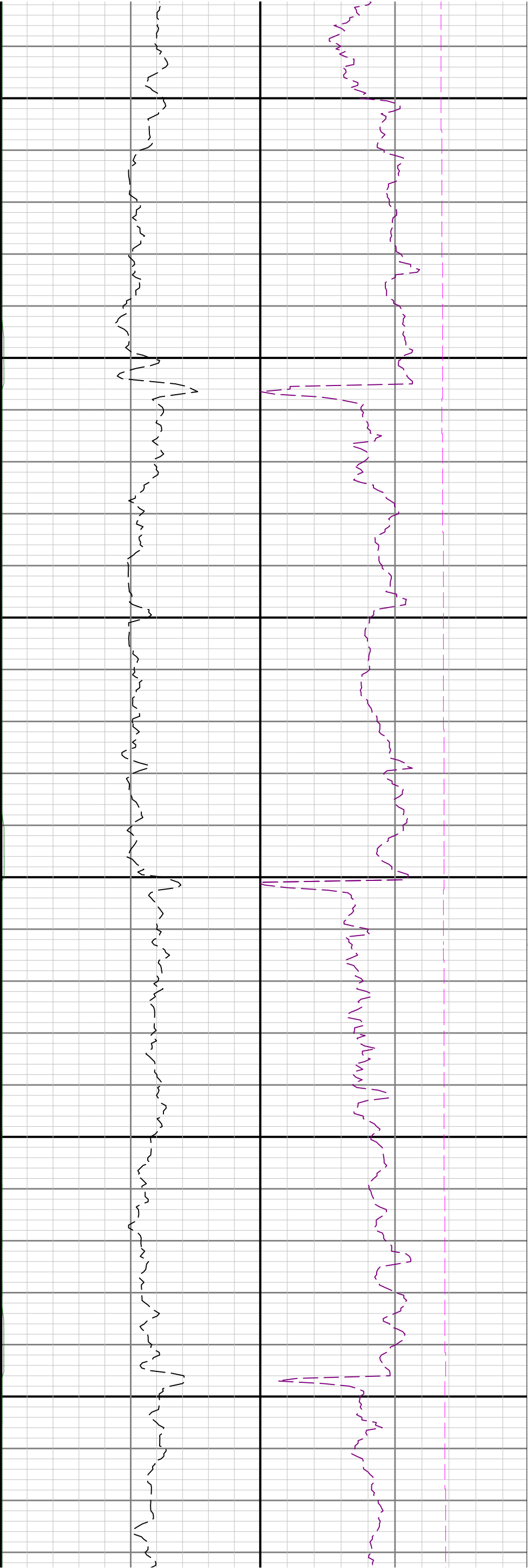


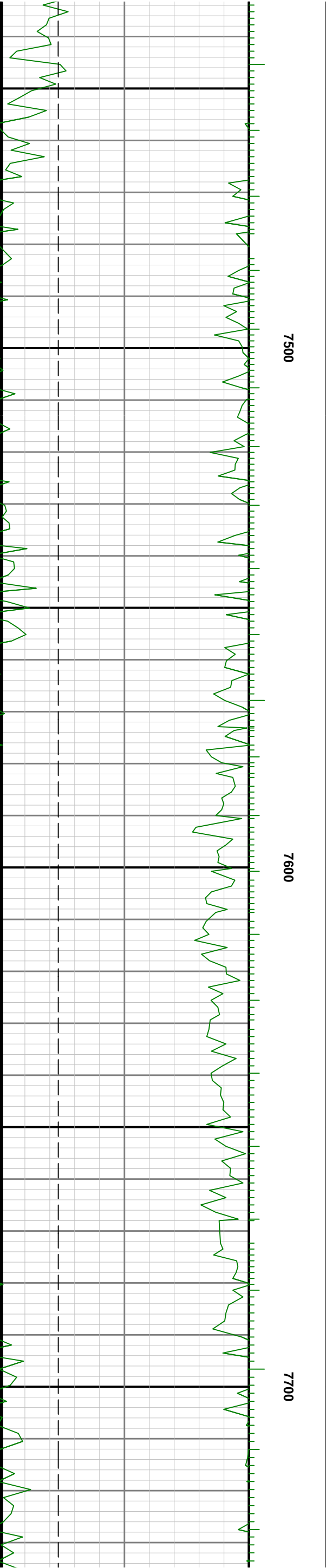


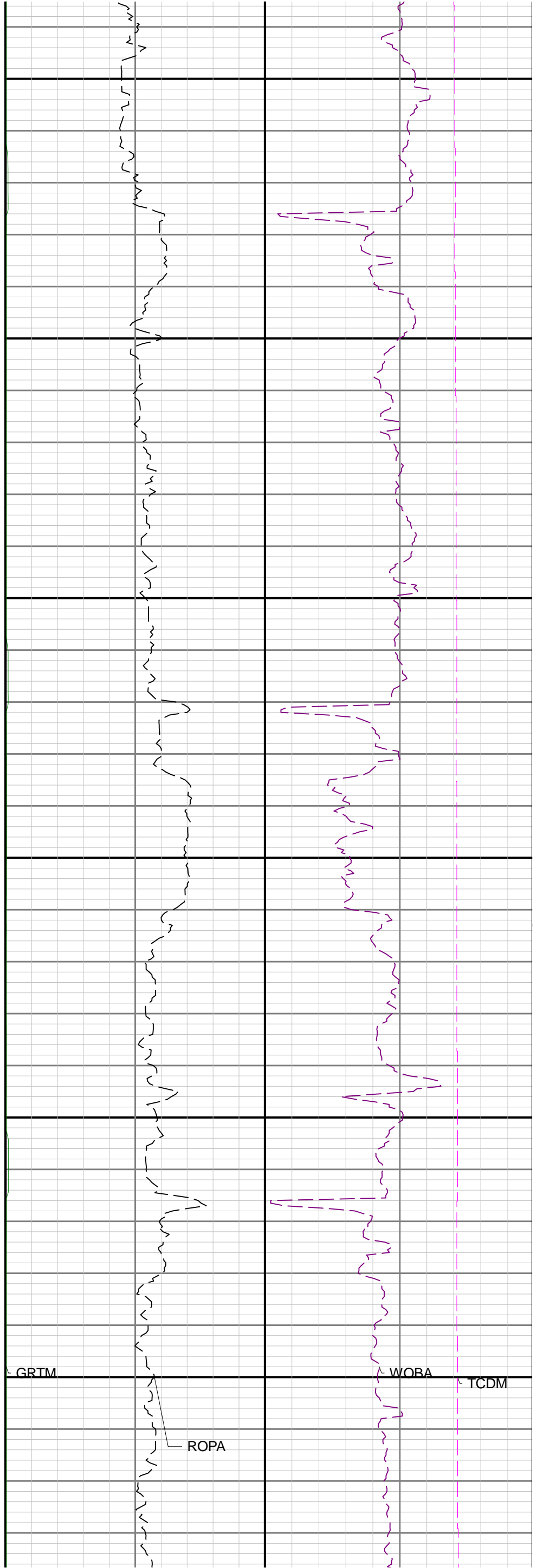
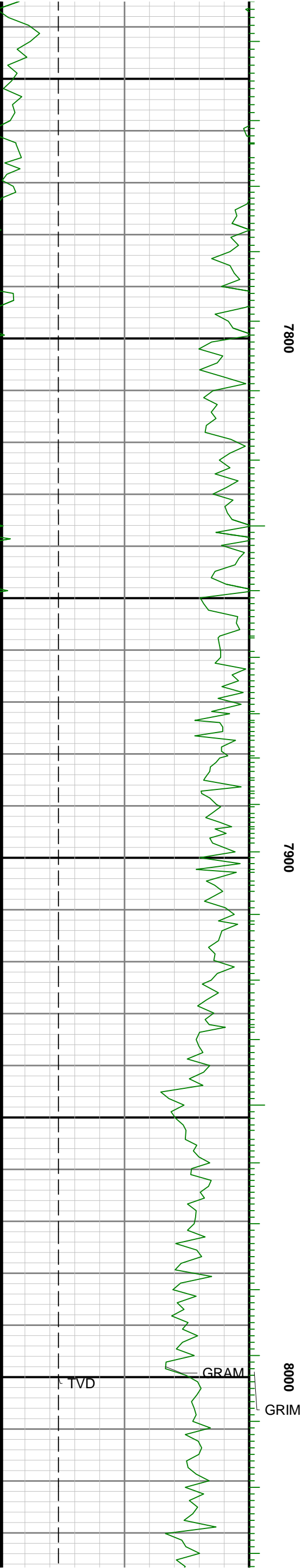


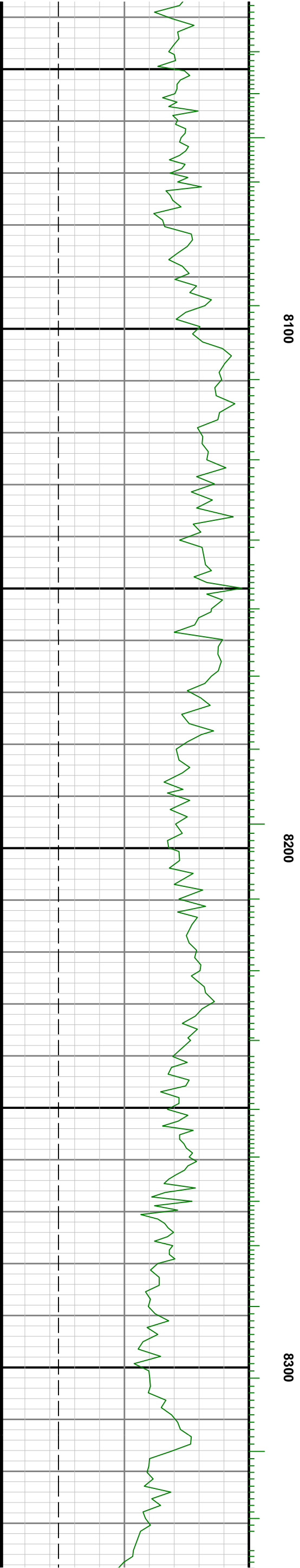
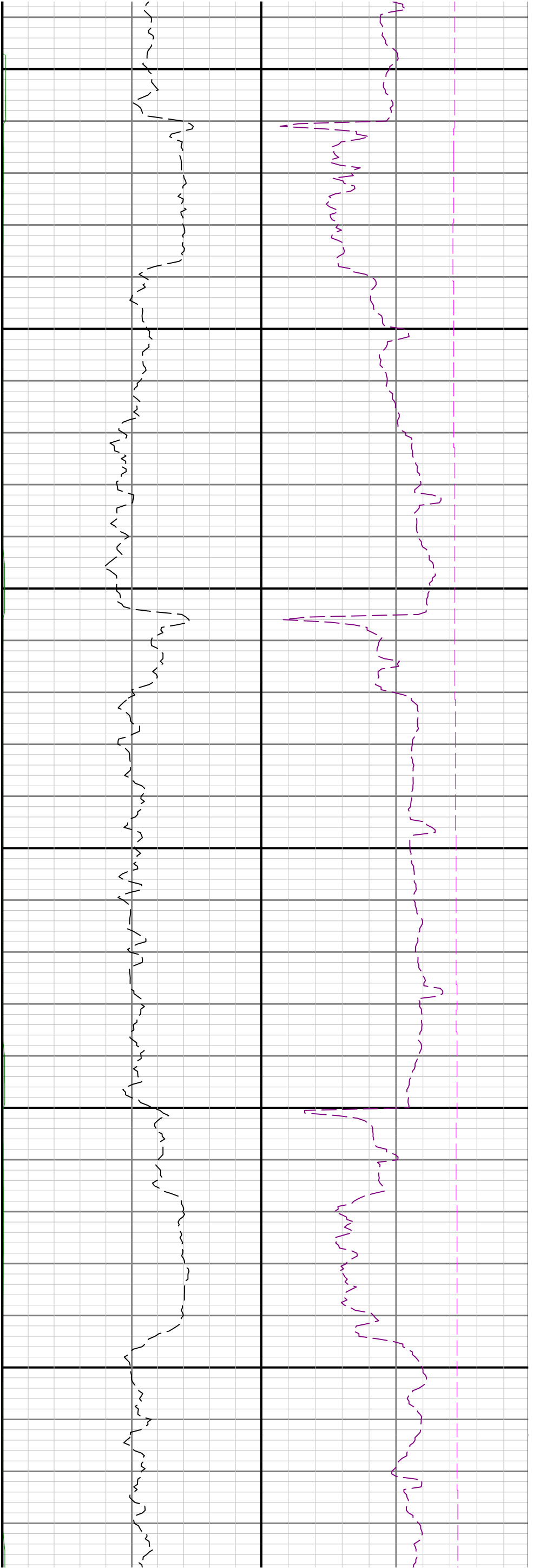


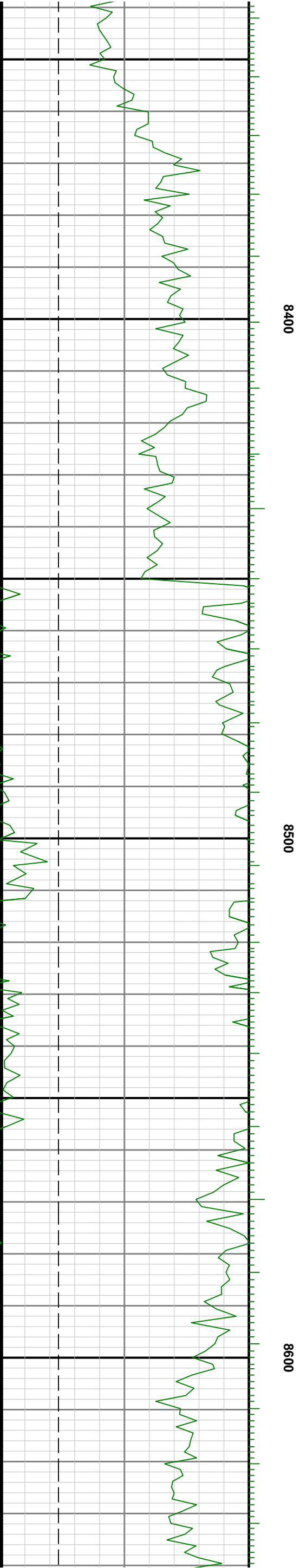
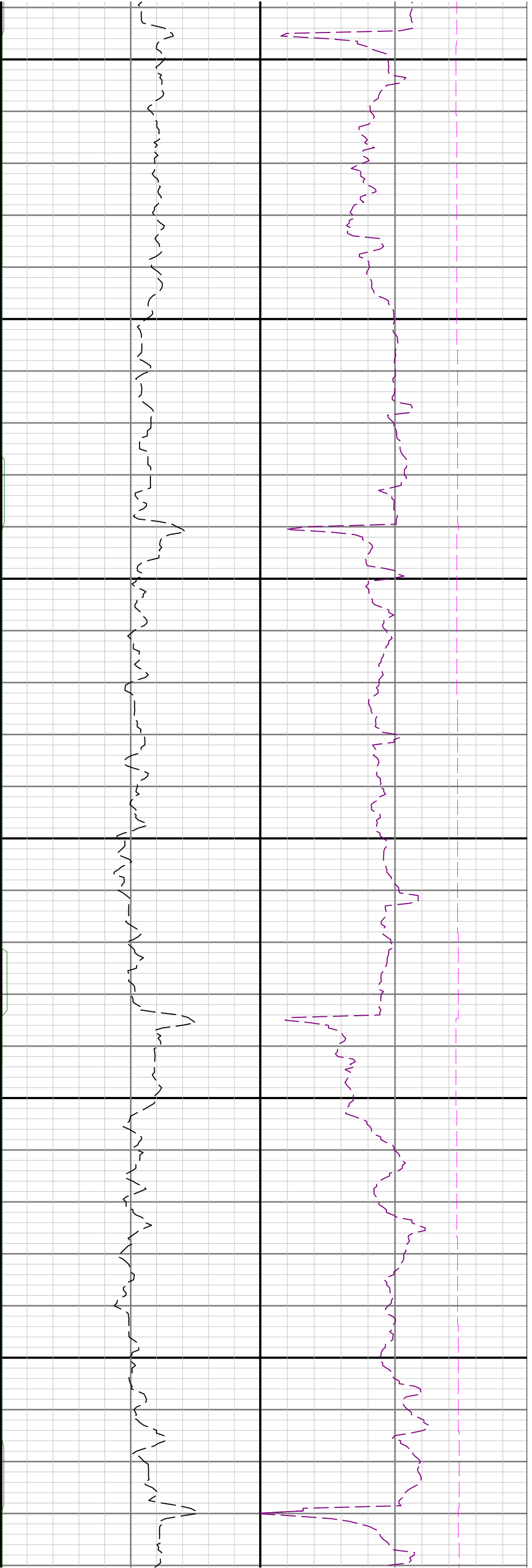




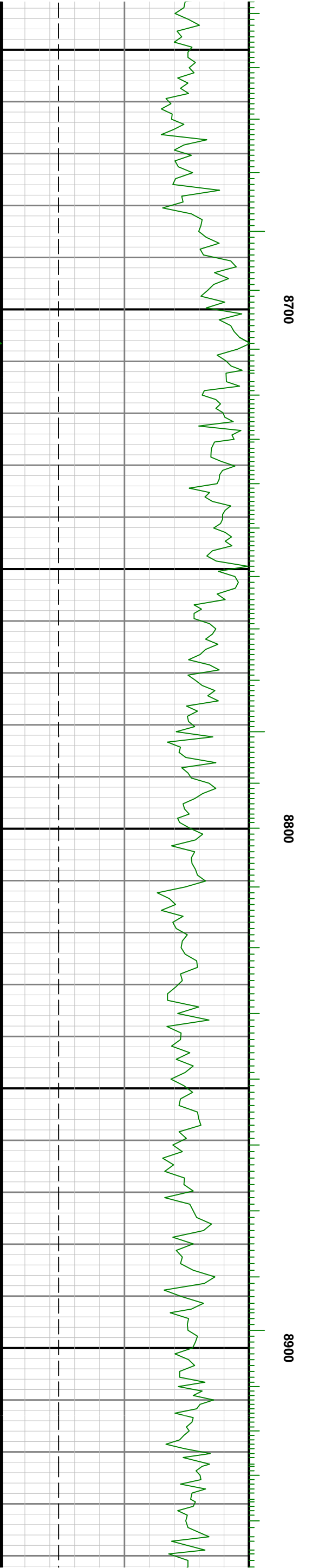
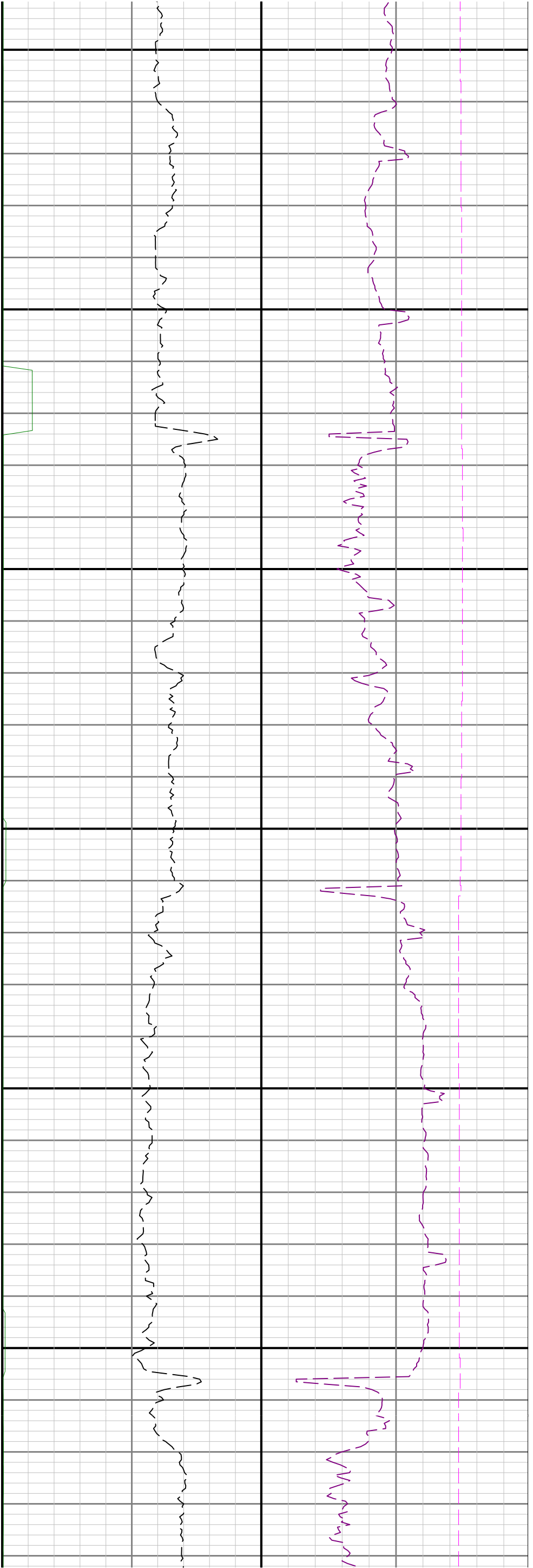


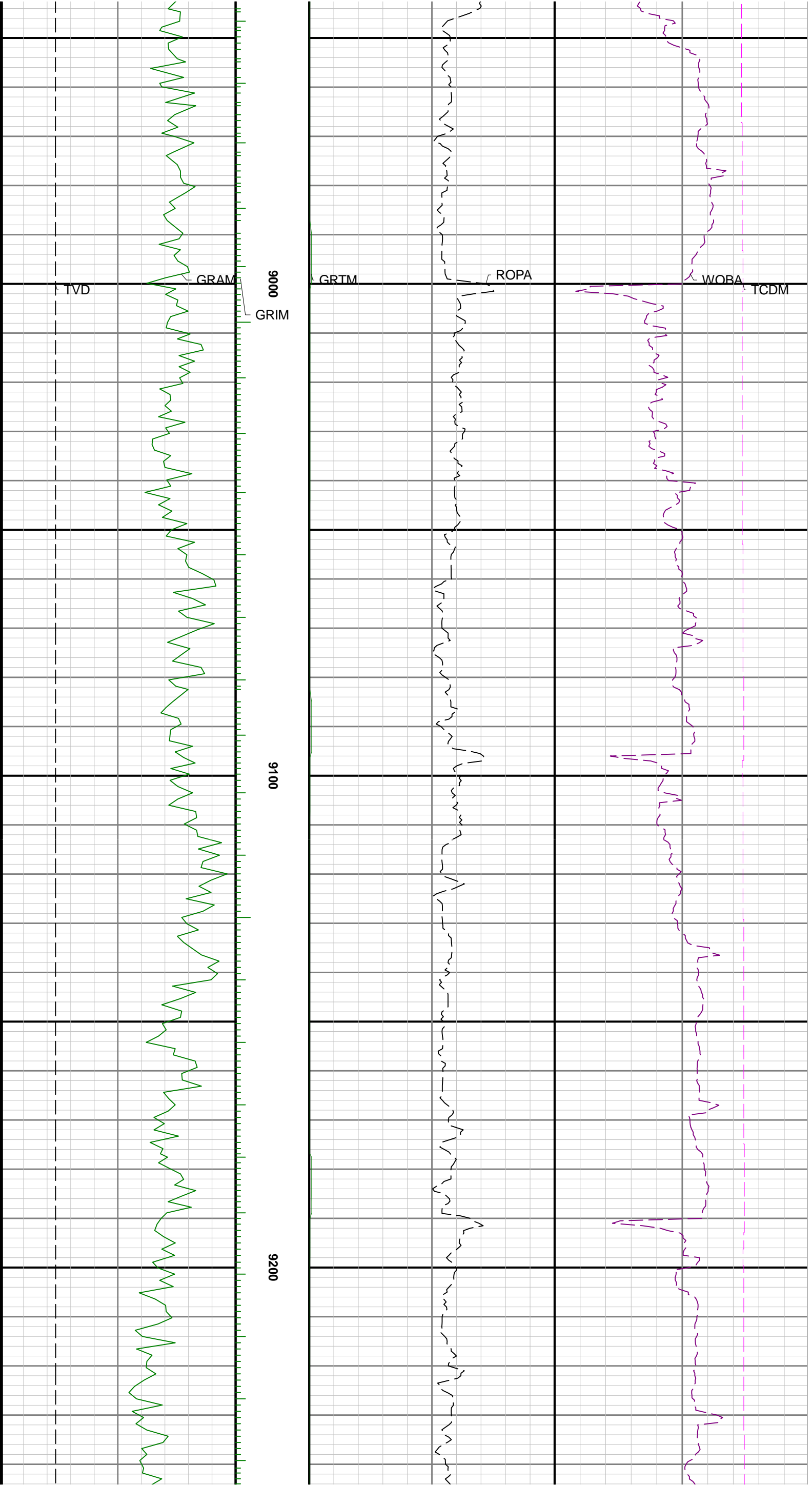


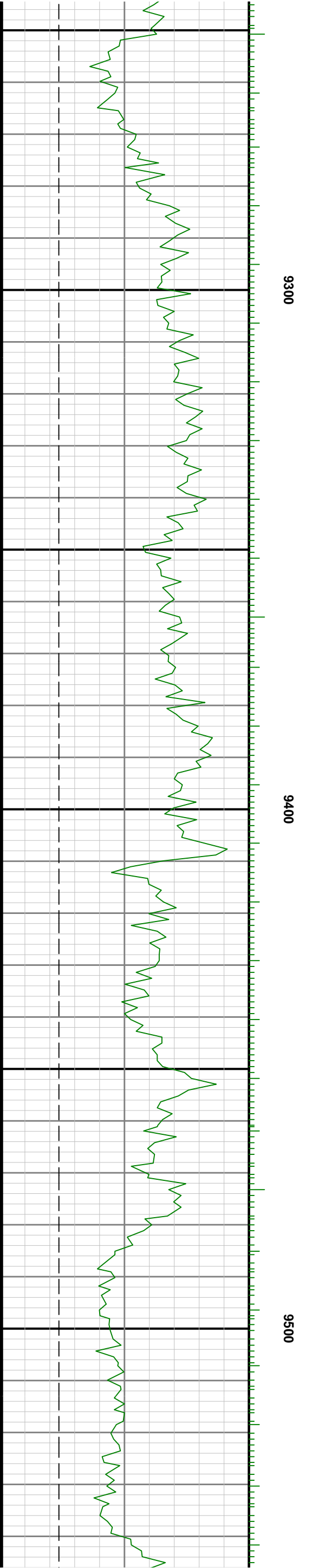


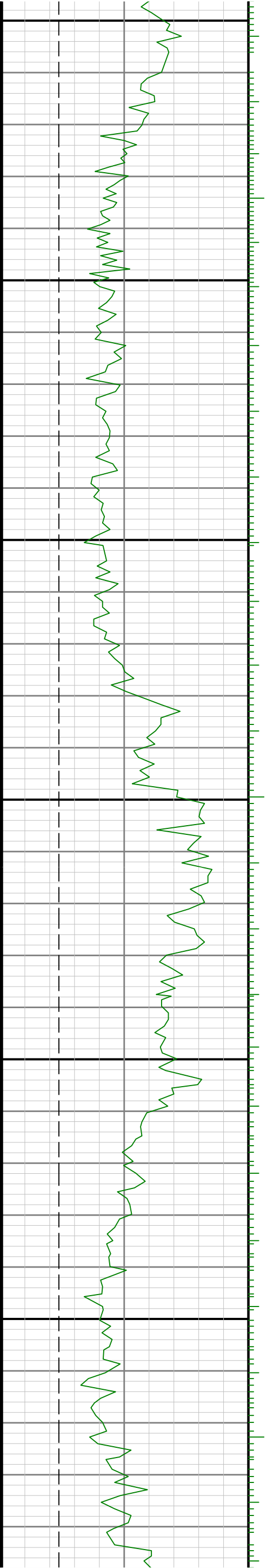












9696

9700

9680

