

	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Eugene Igwe	2017-07-30	2017-08-01	Garrett Gerdson	2017-07-30	2017-08-02			

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+ (%)
2017-07-30 18:00	2	1731.00	Diesel-Oil Based Mud	9.8	94	N/A	7.5	62.5/37.5	Active Pit	43000	0.00
2017-07-31 05:45	2	4024.00	Diesel-Oil Based Mud	9.8	52	N/A	8.4	65.5/34.5	Active Pit	42000	0.00
2017-08-01 09:00	2	10349.00	Diesel-Oil Based Mud	10.0	60	N/A	7.6	64/36	Active Pit	44000	0.00
2017-08-01 17:30	2	12368.88	Diesel-Oil Based Mud	9.9	52	N/A	7.4	64.5/35.5	Active Pit	42000	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)
2	ATC_SU	14262244	Near Bit Inclination	5.93	6.71	7.000	4.330
2	ATC_SU	14262244	Near Bit VSS	5.93	6.71	7.000	4.330
2	ATC_MWD	12603327	Gamma (single)	2.76	12.88	7.000	3.250
2	ATC_MWD	12603327	Directional (mag)	12.26	22.38	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	Baker Hughes LWD Run 2 utilized 6 3/4 inch Navigamma services (Gamma Ray and Directional) behind an 8 1/2 inch bit and rotary steerable assembly from 1731 to 14799 feet MD (1729 to 7710 feet TVD).

Remarks


Number	Measured Depth (ft)	Hole Section (in)	Run No.	Remark
1	1730.00	8.500	2	Baker Hughes LWD began logging services at 1731 feet MD (1729 feet TVD) per client request.
2	14790.00	8.500	2	The interval from 14786 to 14799 feet MD (1729 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	OnTrak - Gamma Ray - Apparent - Memory 0.5 ft Average	API
GRIM	OnTrak - Gamma Ray - Data Point Indicator - Memory	unitless
GRTM	OnTrak - Gamma Ray - Time Since Drilled - Memory	min
GRADM	OnTrak - Gamma Ray - Apparent - Down Quadrant - Memory 0.5 ft Average	API
GRAUM	OnTrak - Gamma Ray - Apparent - Up Quadrant - Memory 0.5 ft Average	API
TOPM	OnTrak - Gamma Ray - Apparent - True - Memory 0.5 ft Average	API

BAKER
HUGHES

a GE company



Company

Well

Interval

Created

Verdad Oil & Gas Corporation

Homestead 20

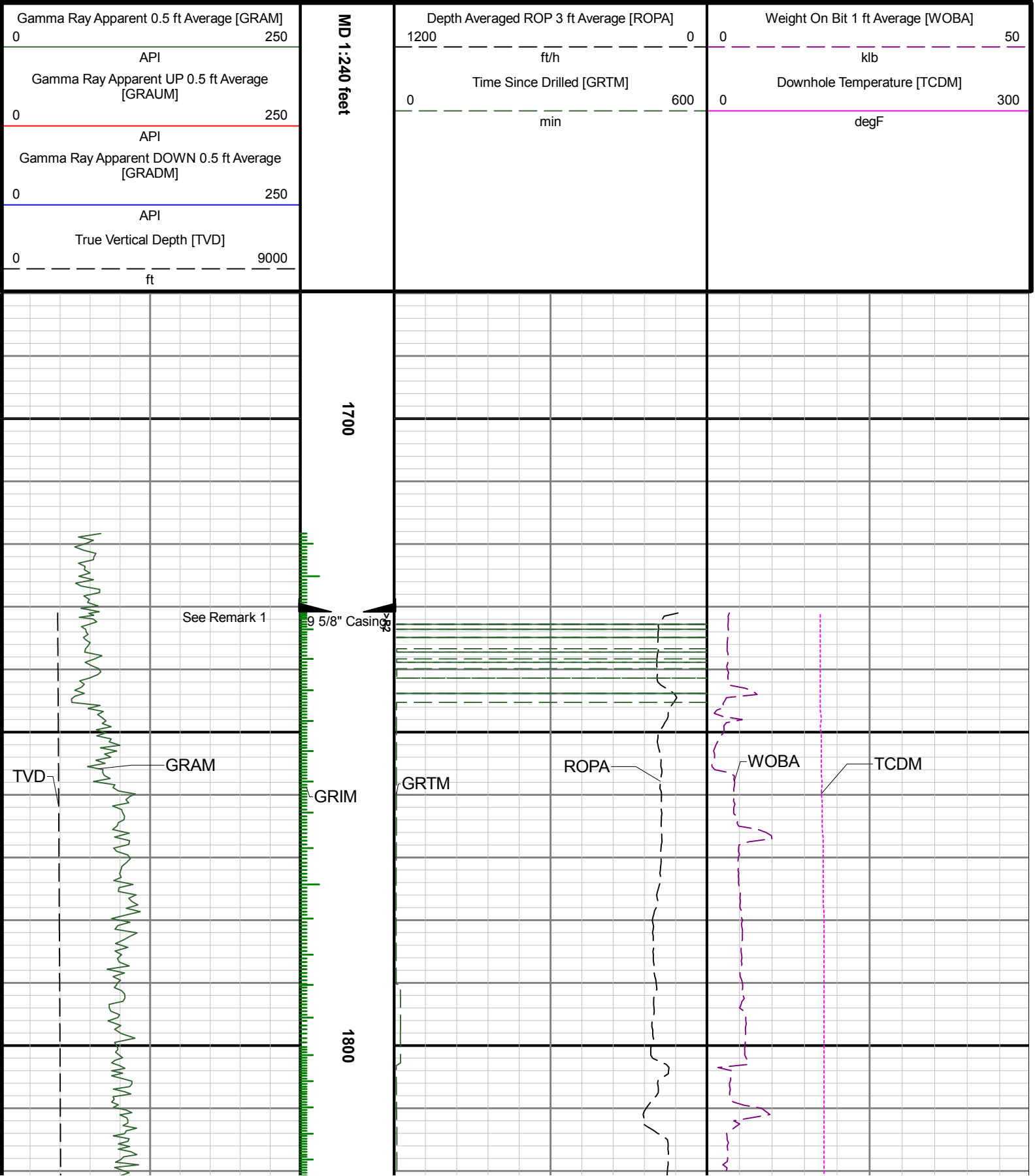
Date From: 2017-05-23 09:18:29

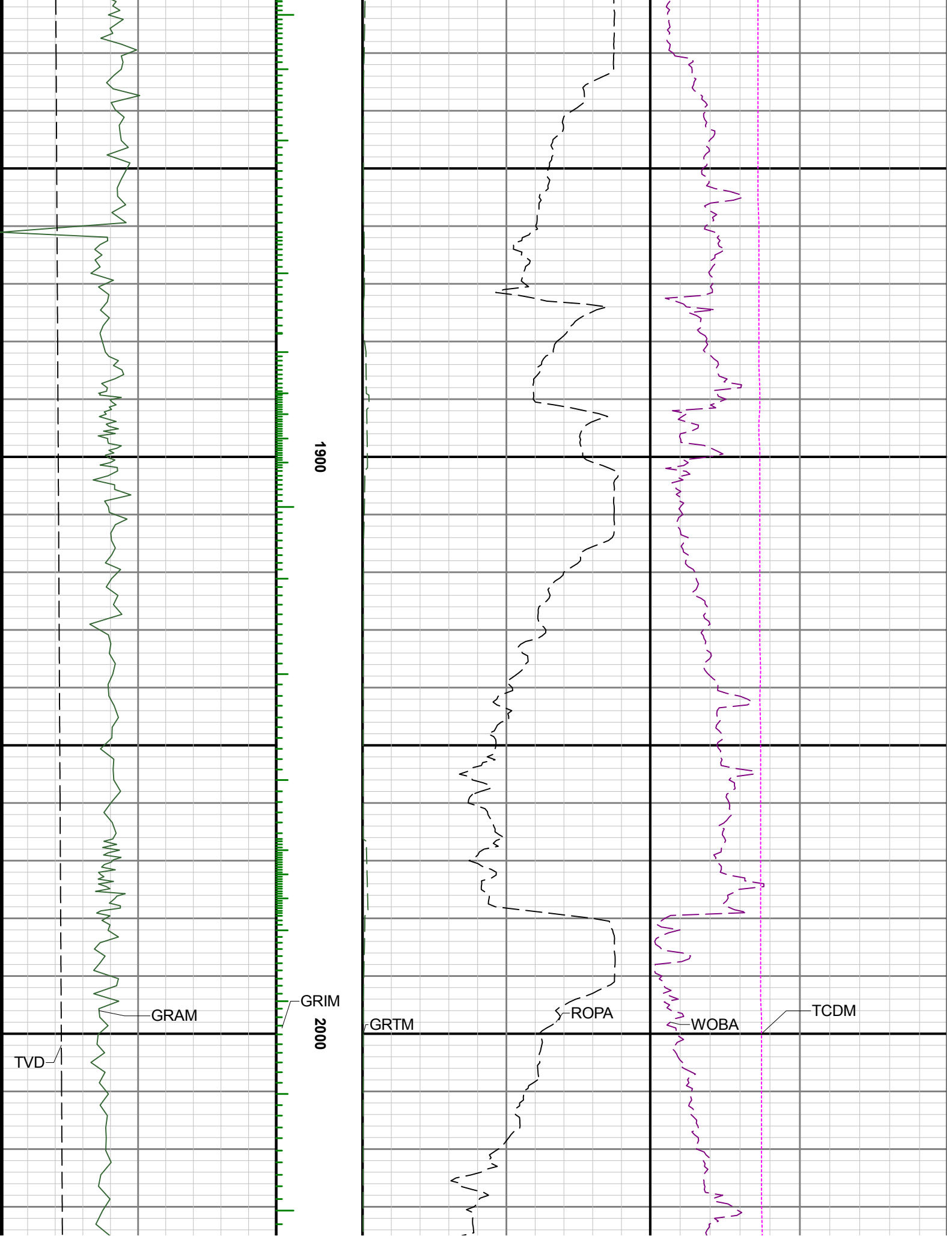
Date To: 2017-08-02 04:23:14

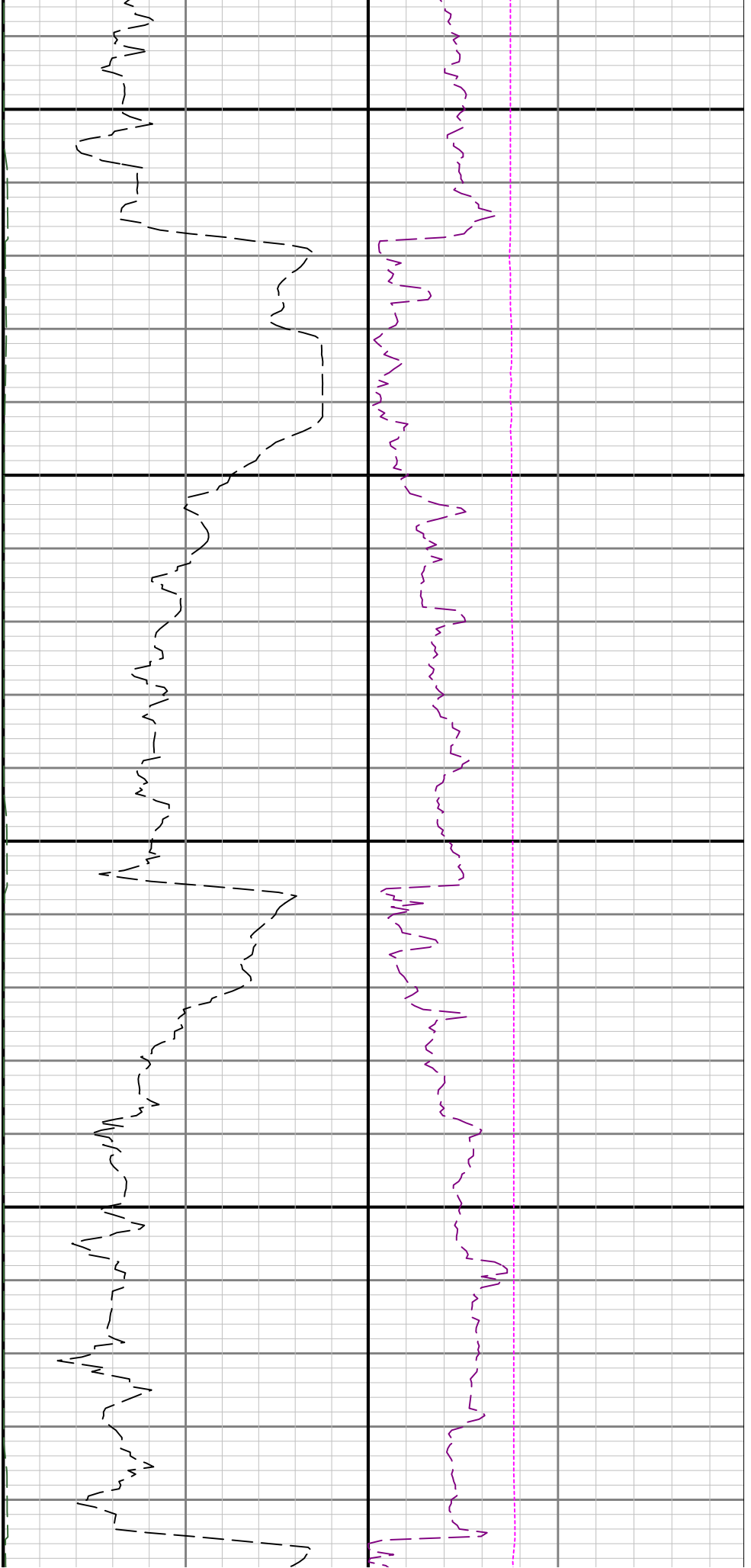
2017-08-02 18:52:56

Top: 1700.00

Bottom: 14799.00

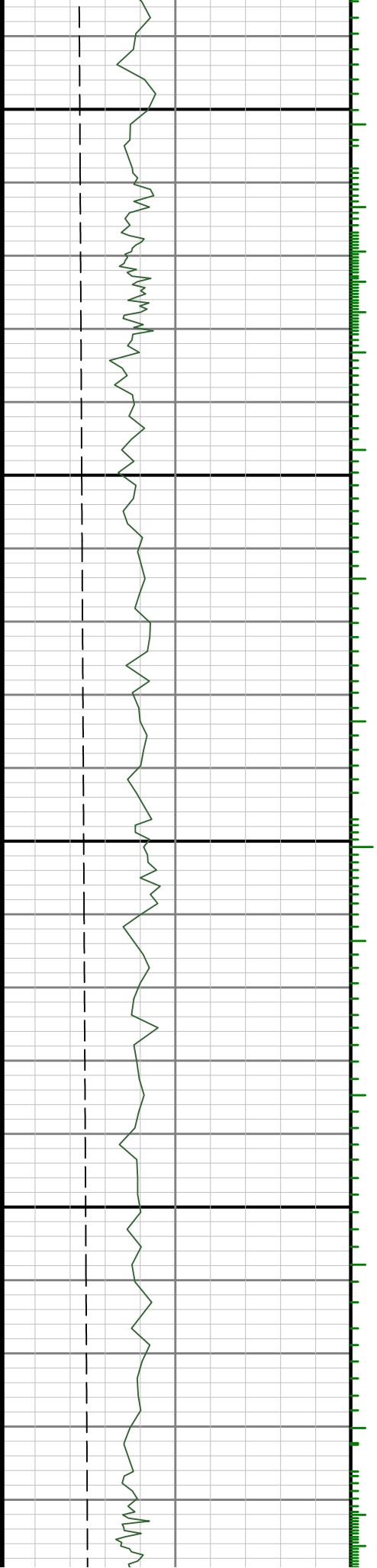


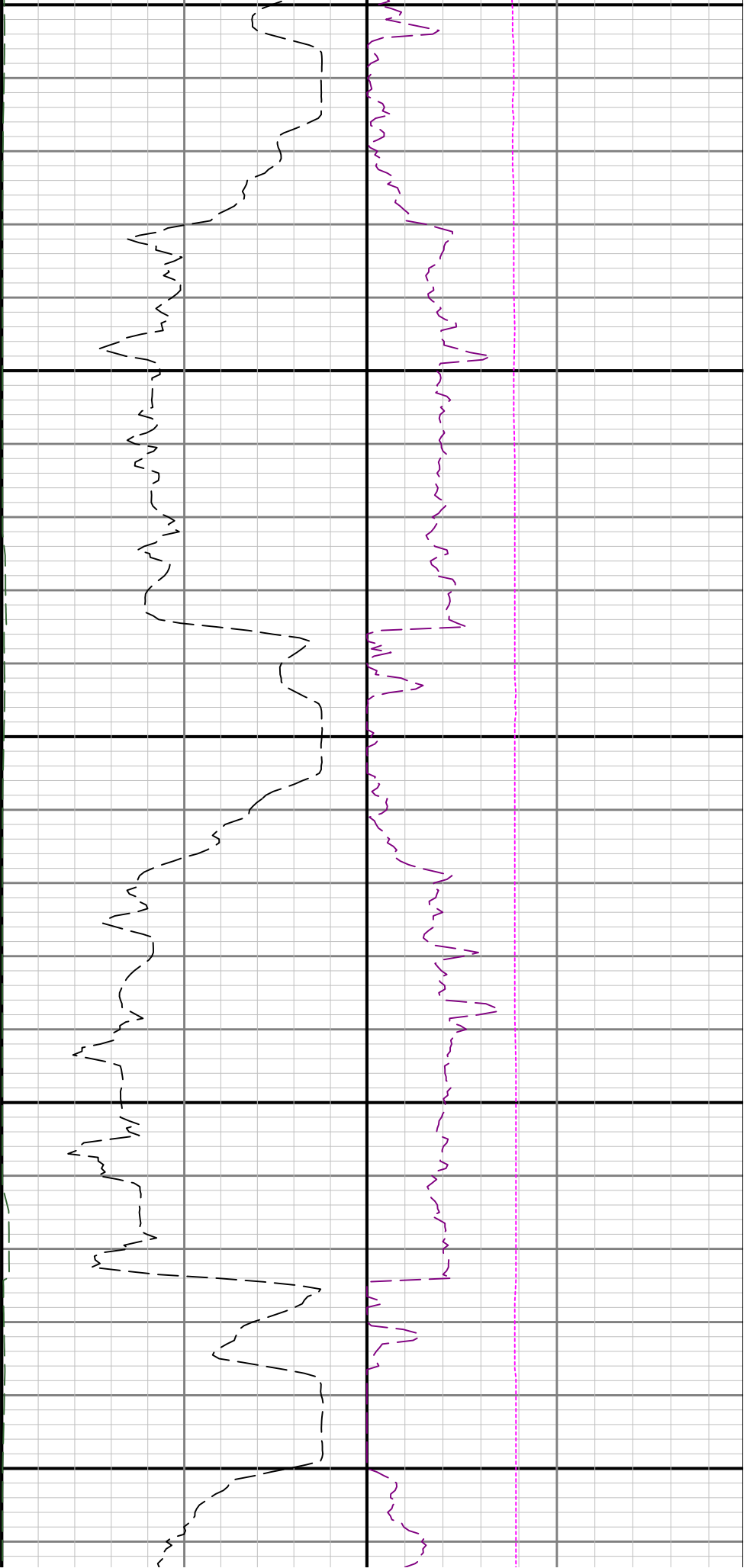




2100

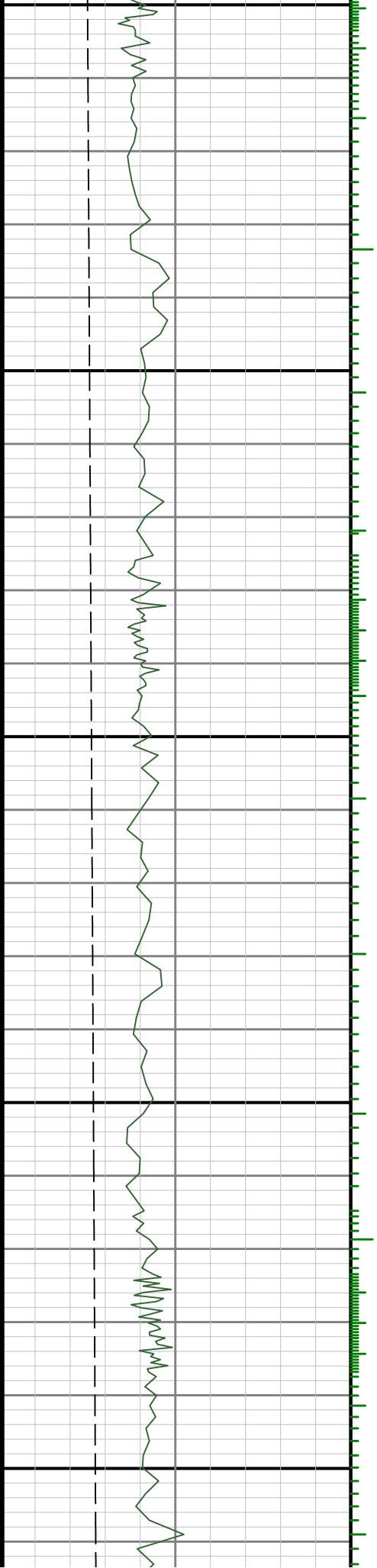
2200

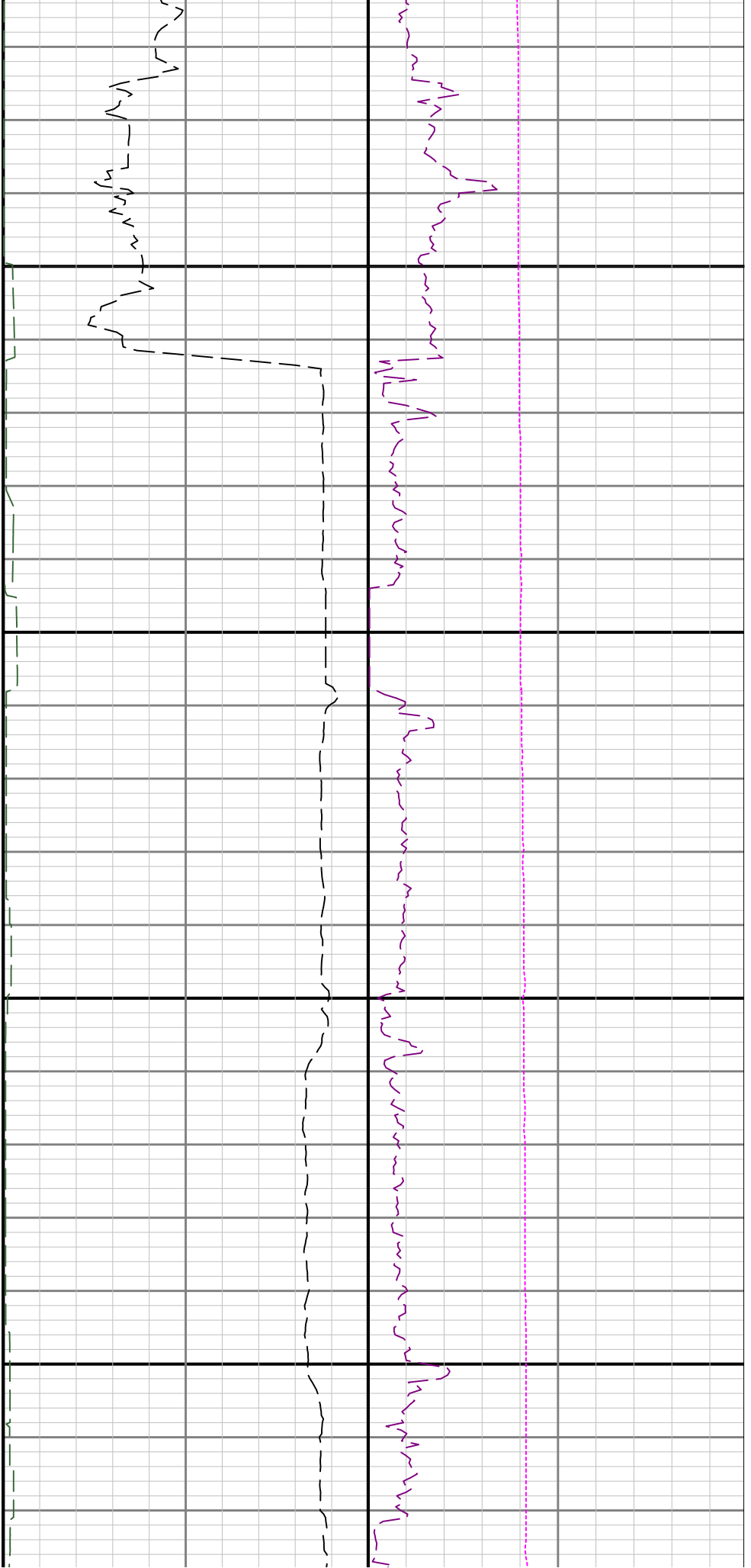




2300

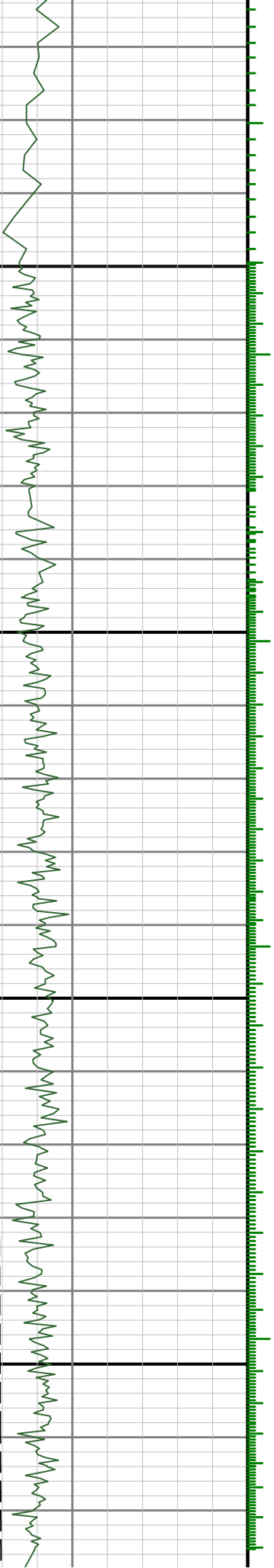
2400

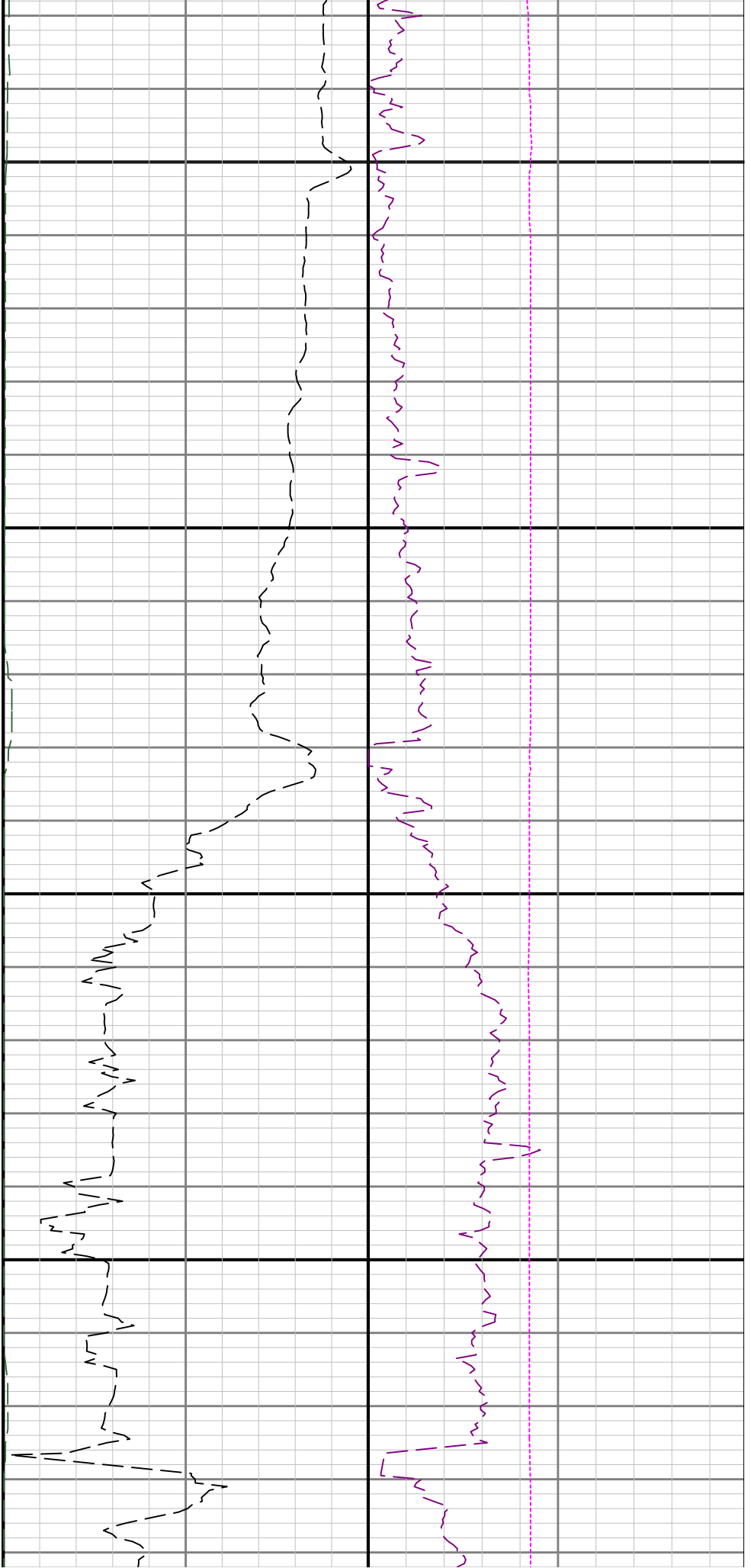




2500

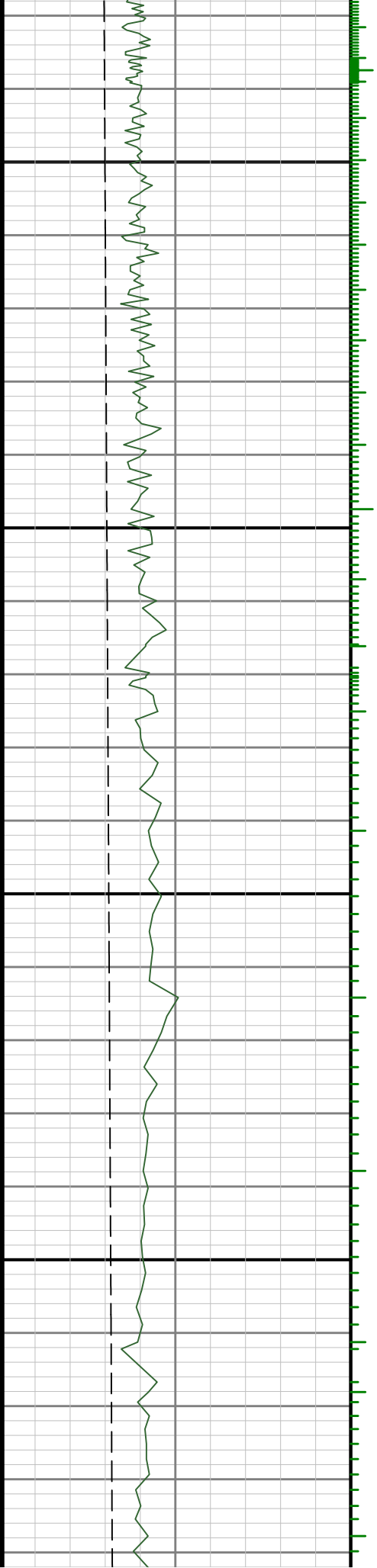
2600

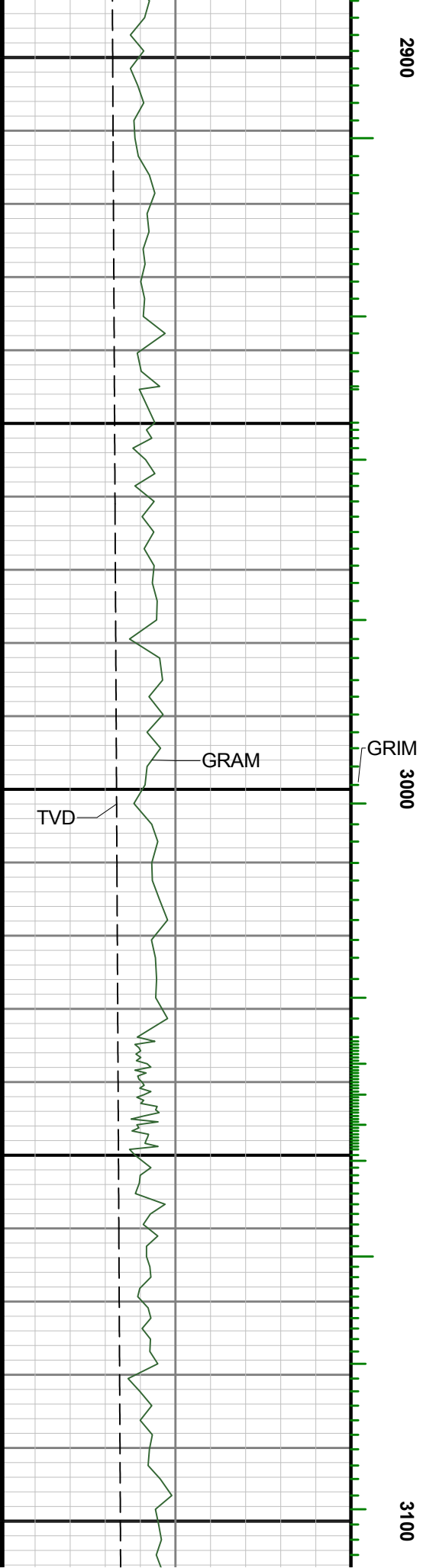
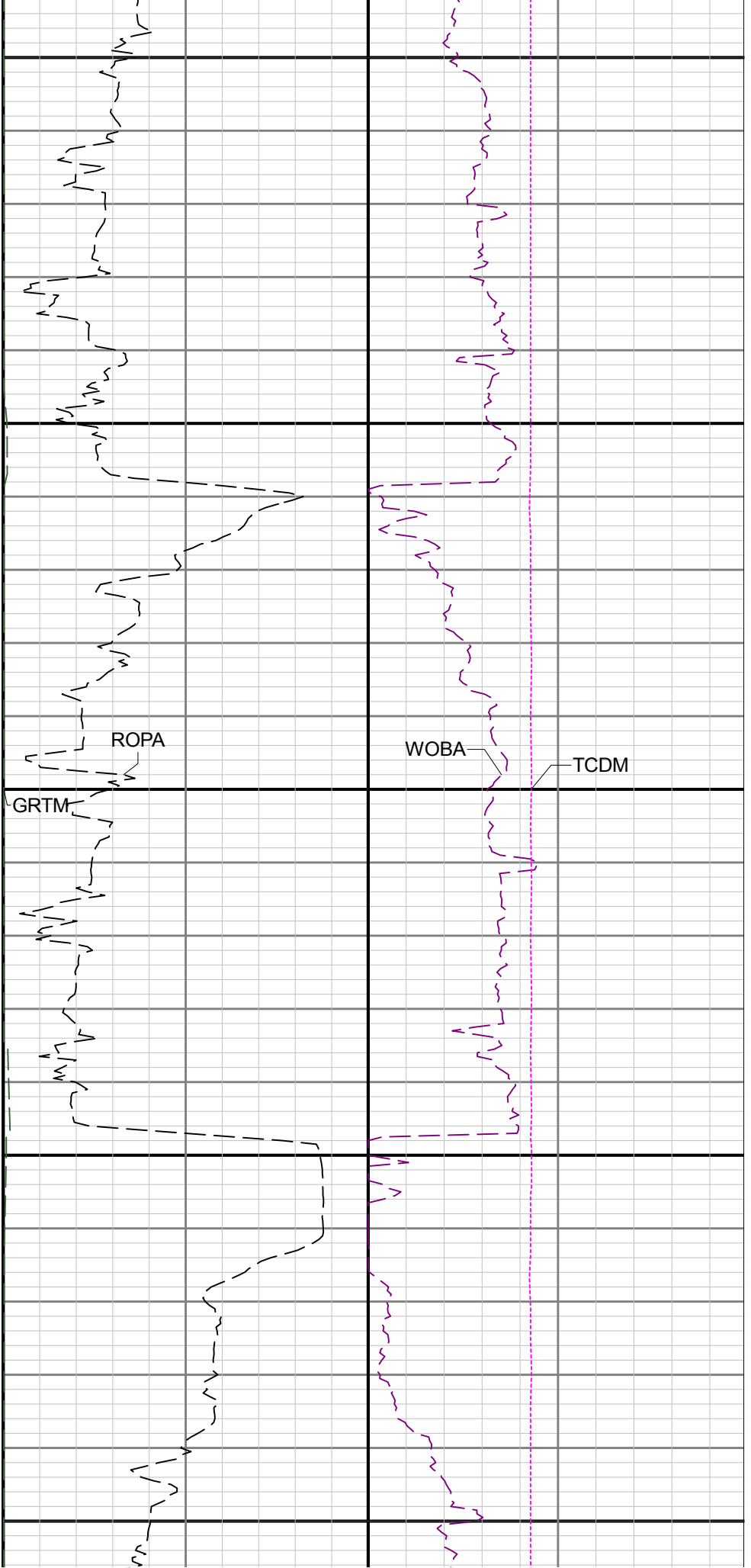


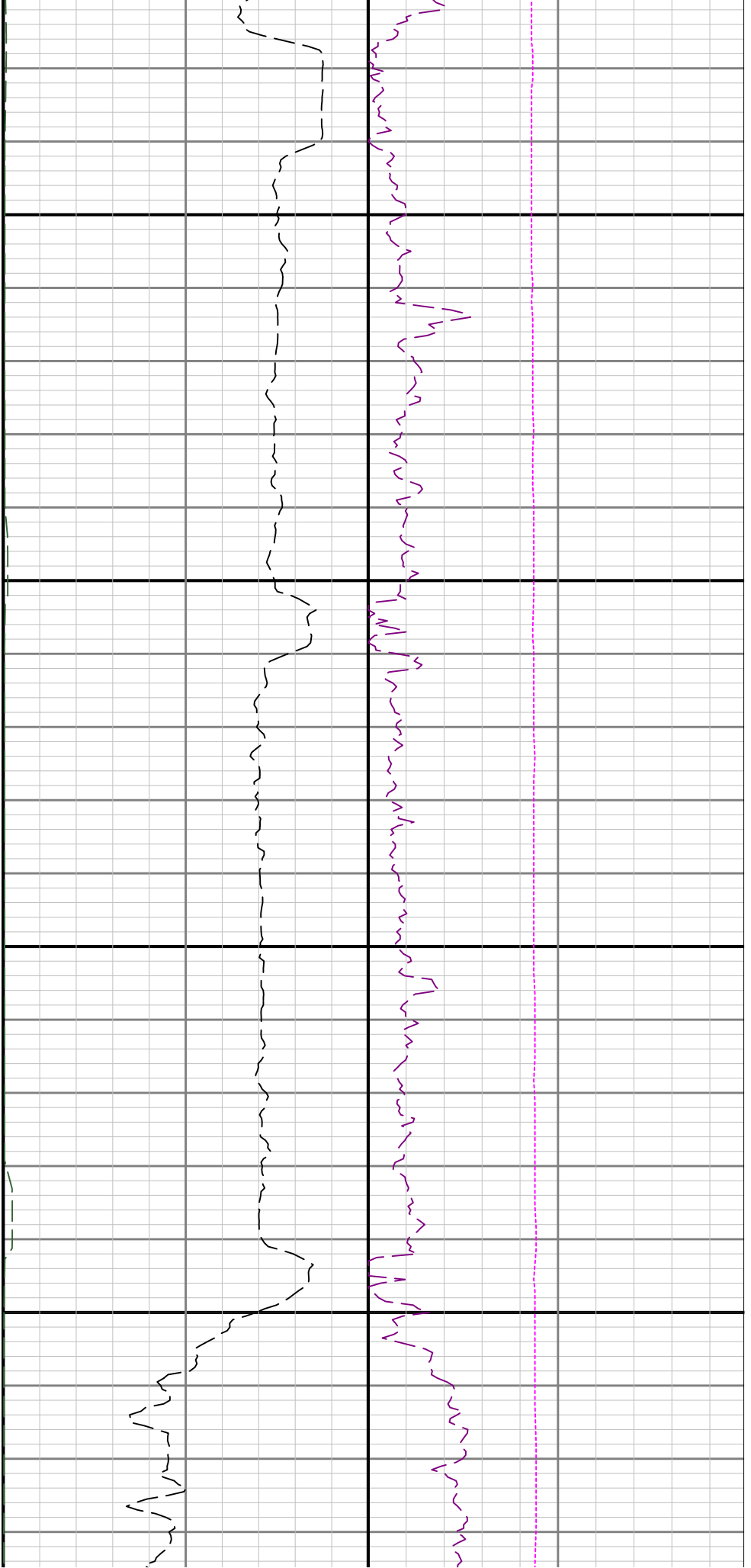


2700

2800

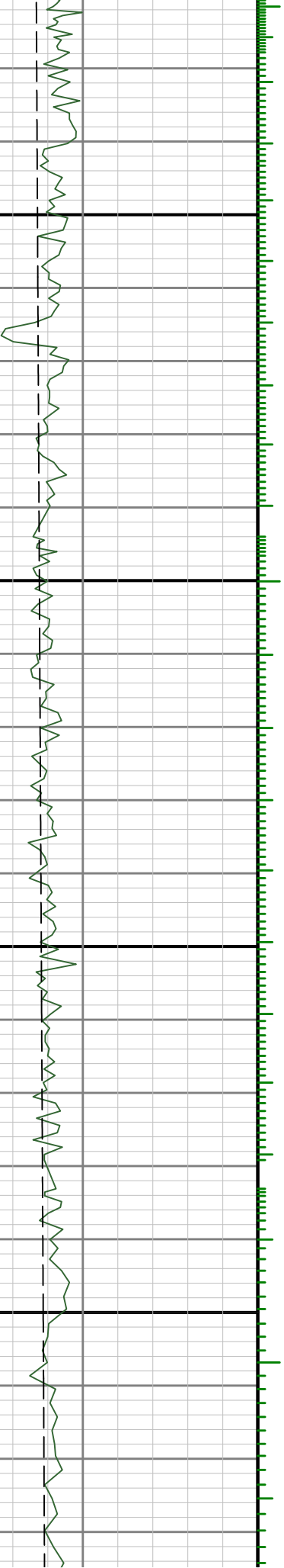






3400

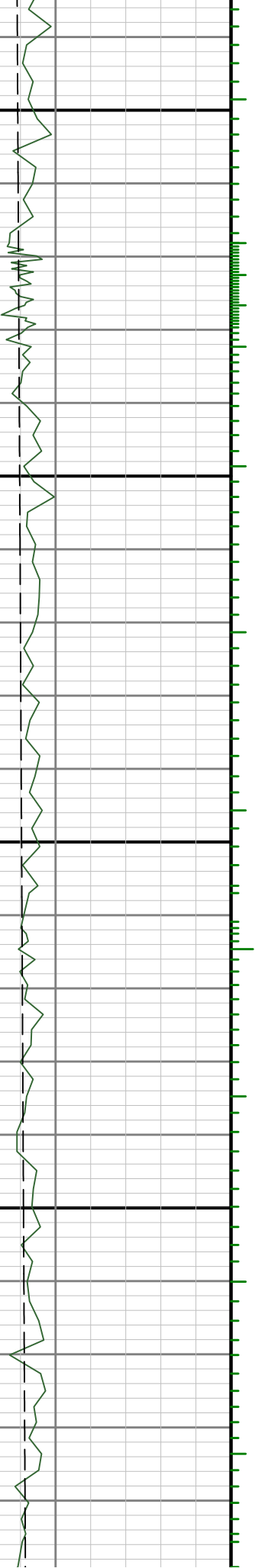
3500

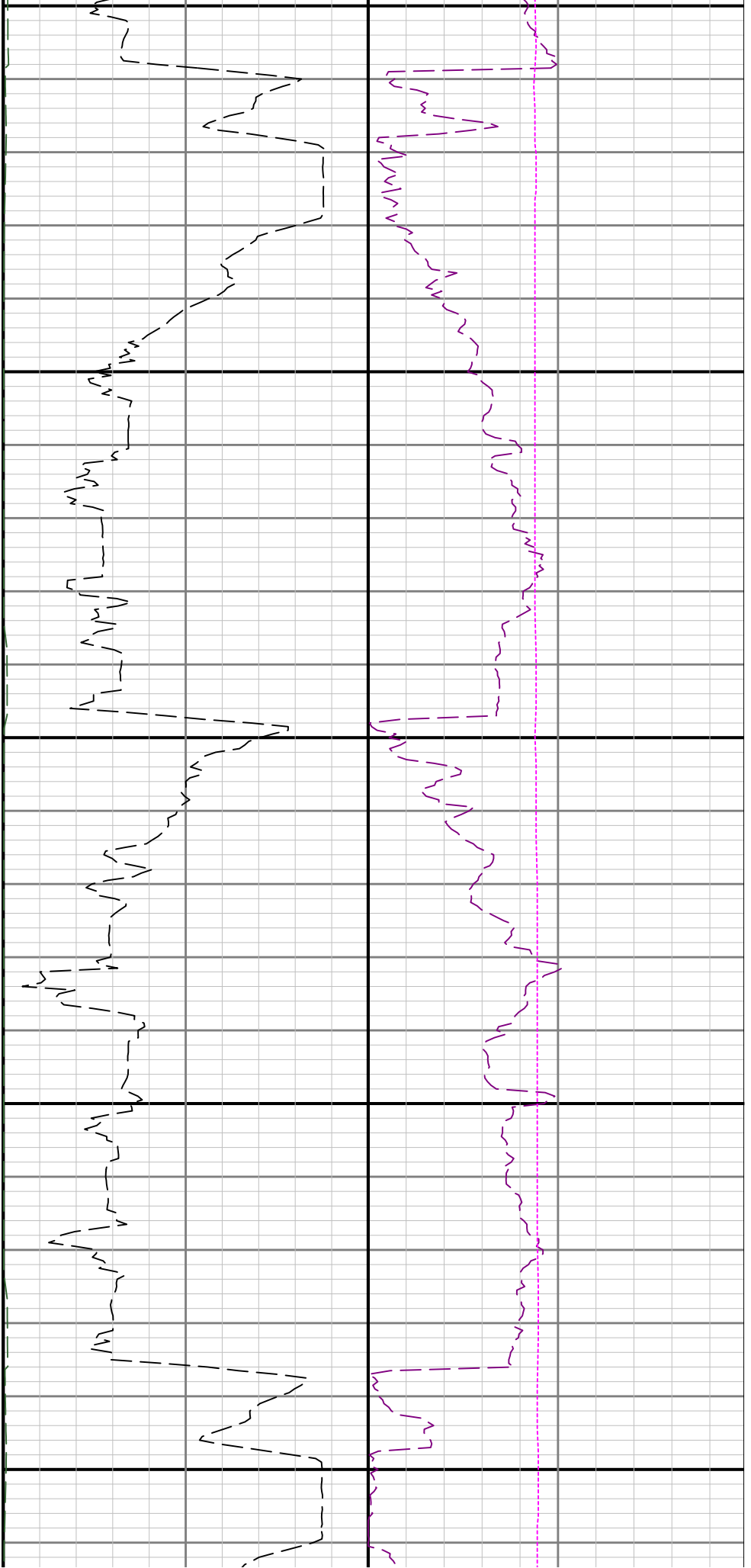




3600

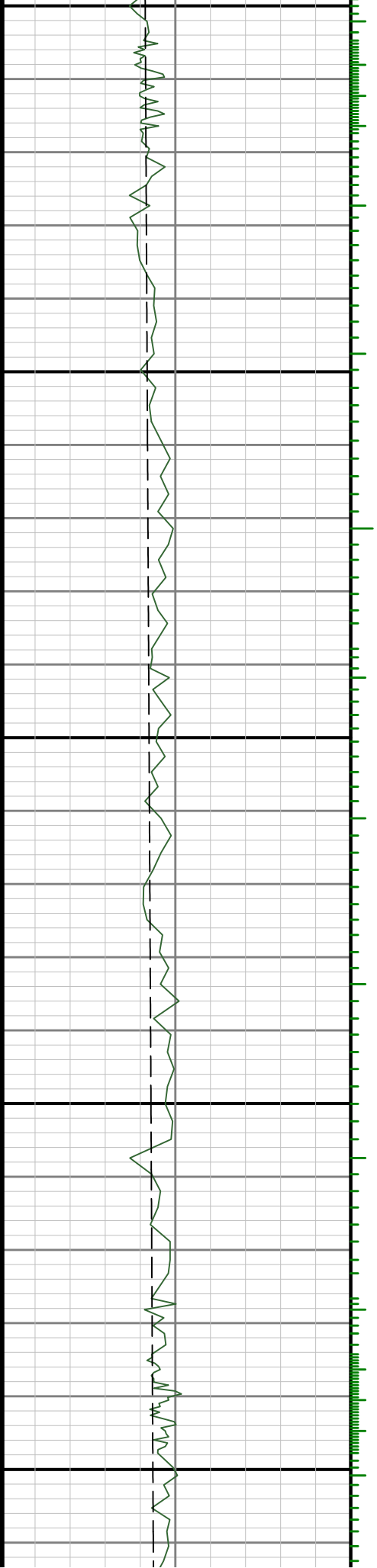
3700

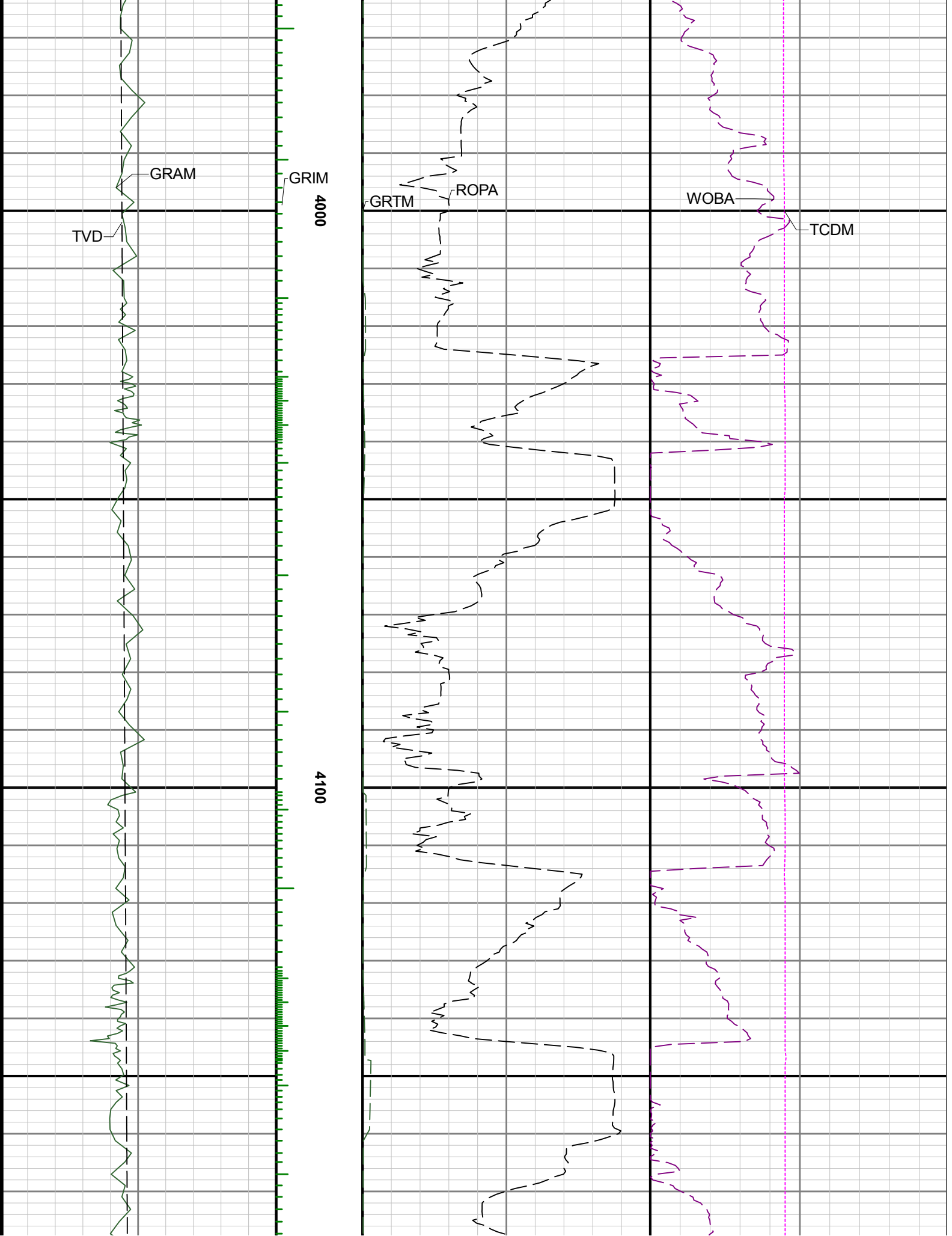


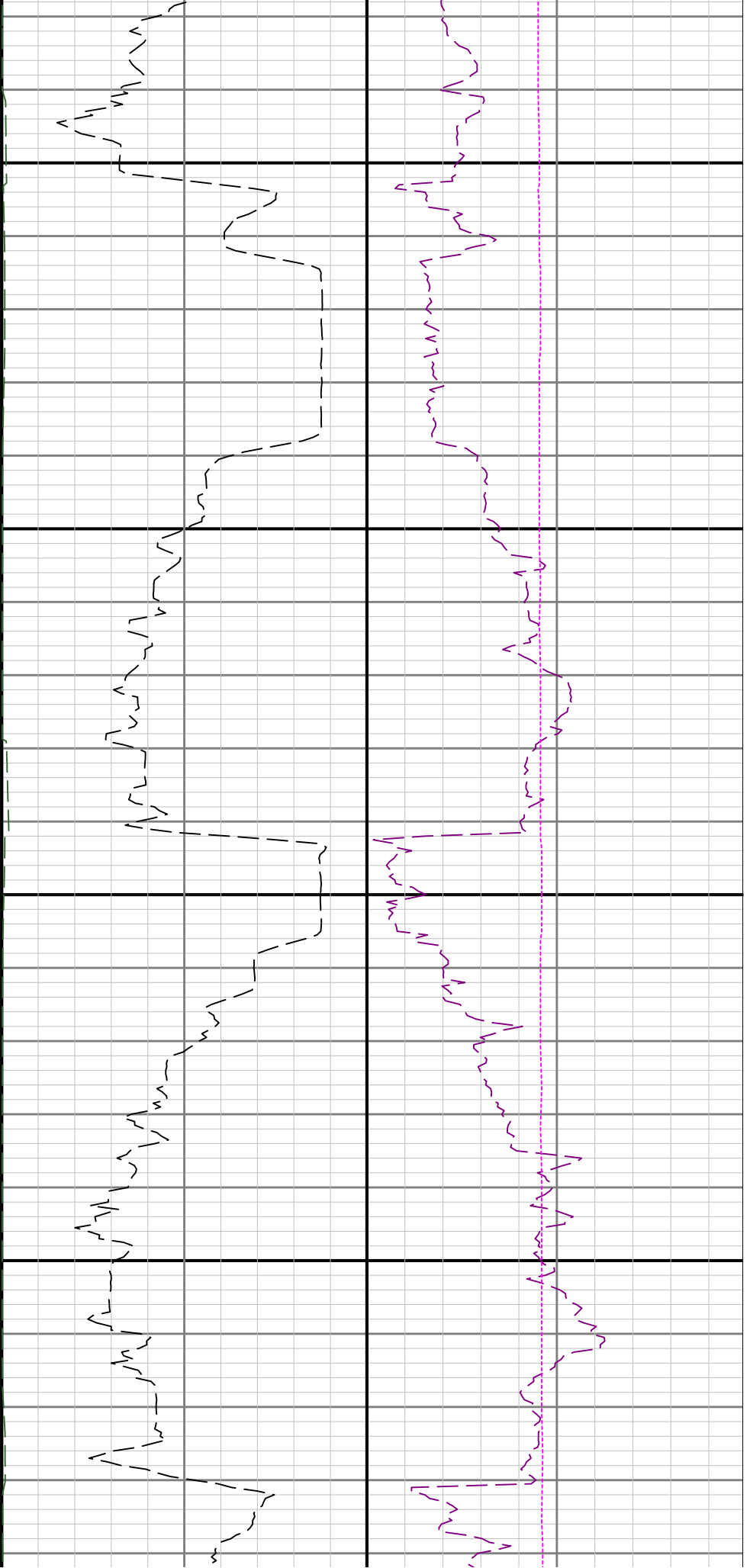


3800

3900

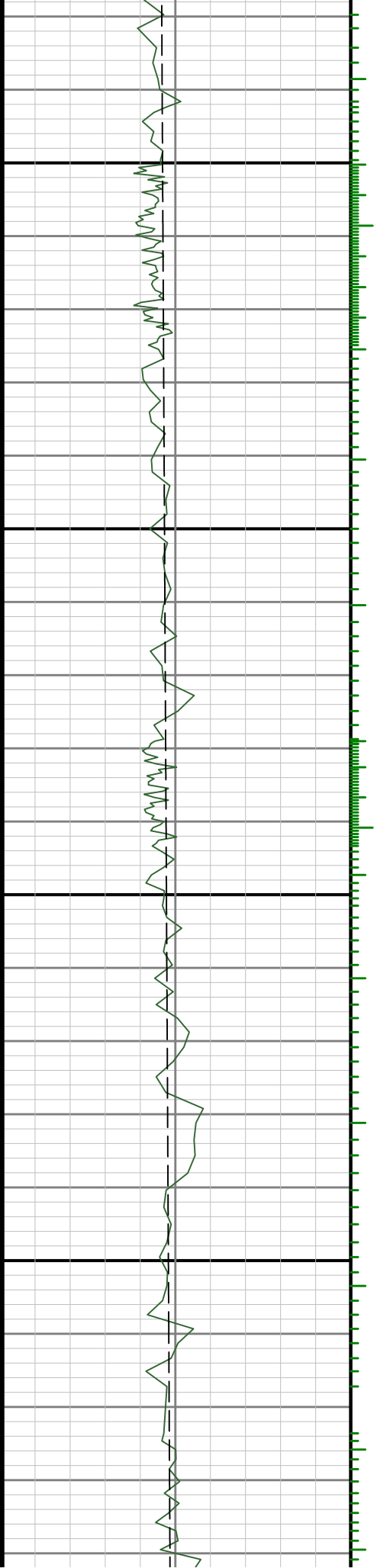


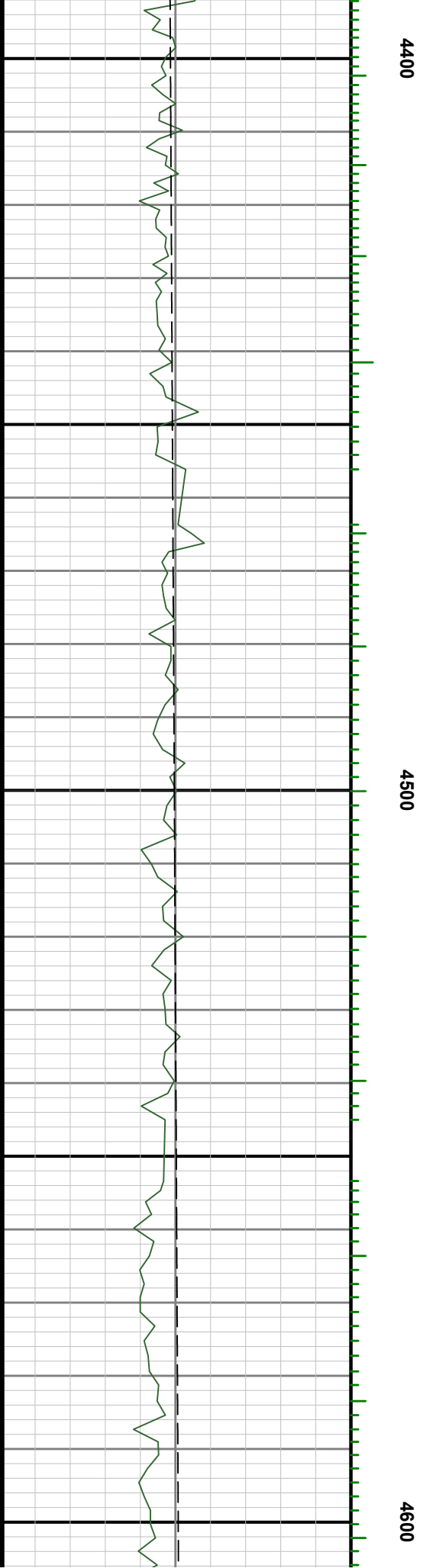
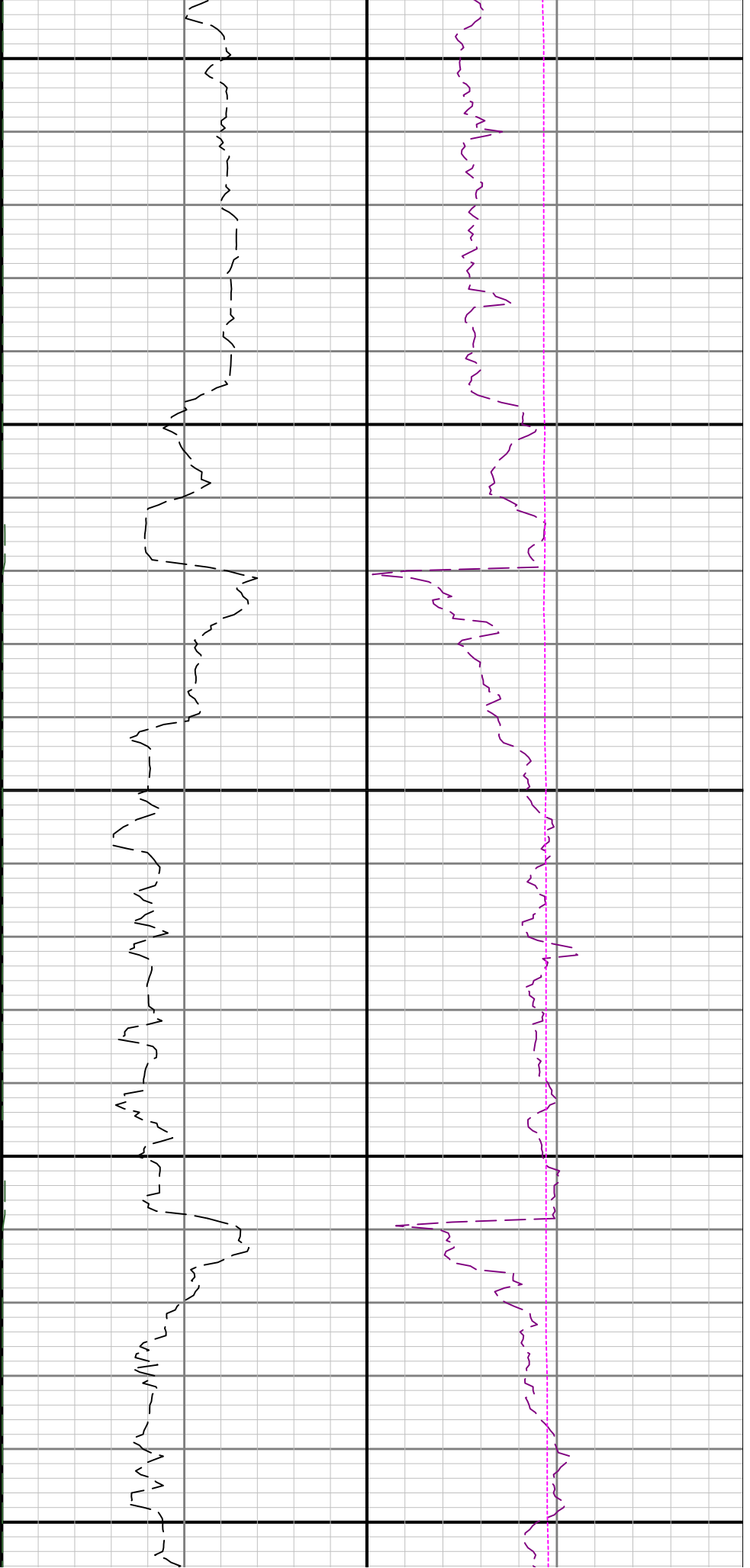


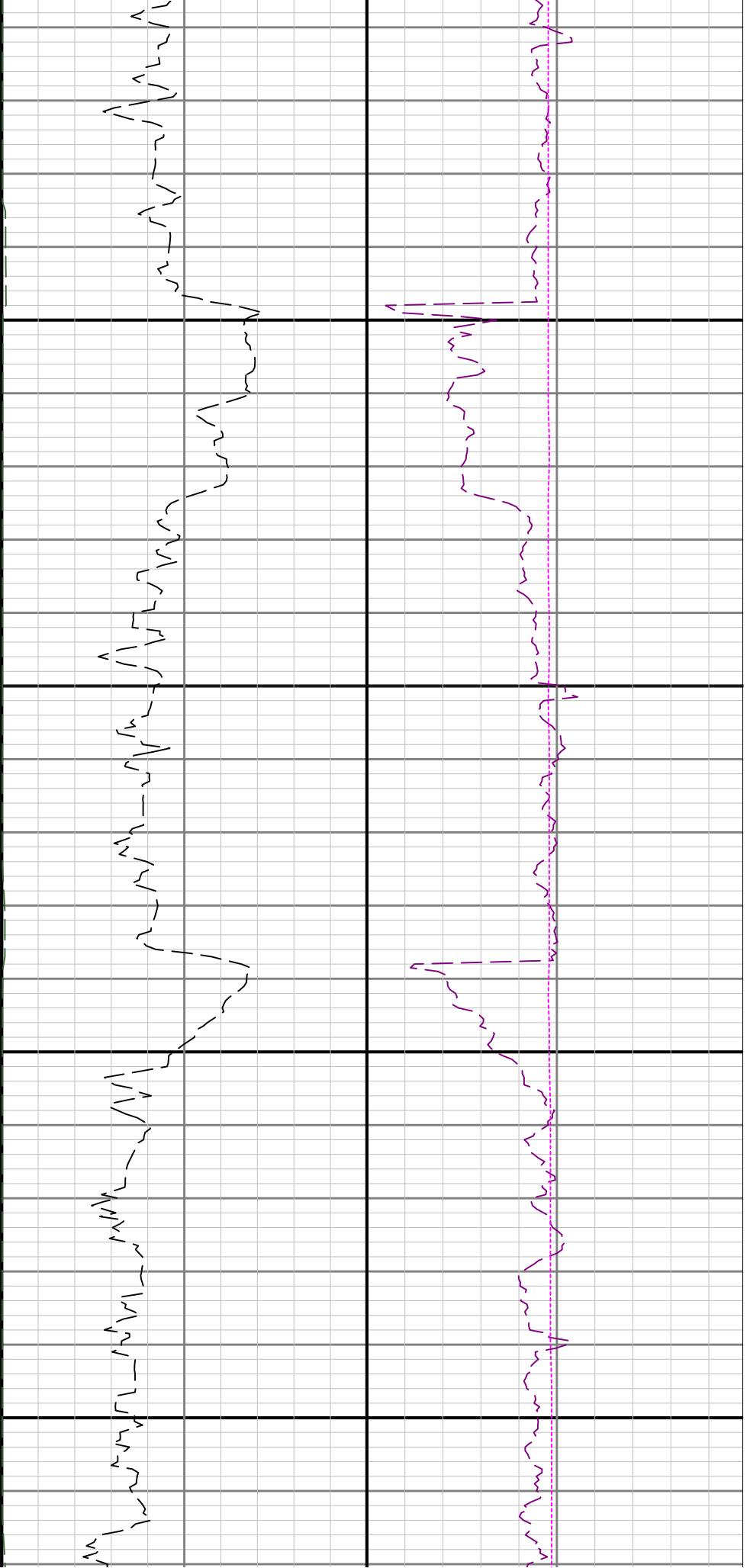


4200

4300

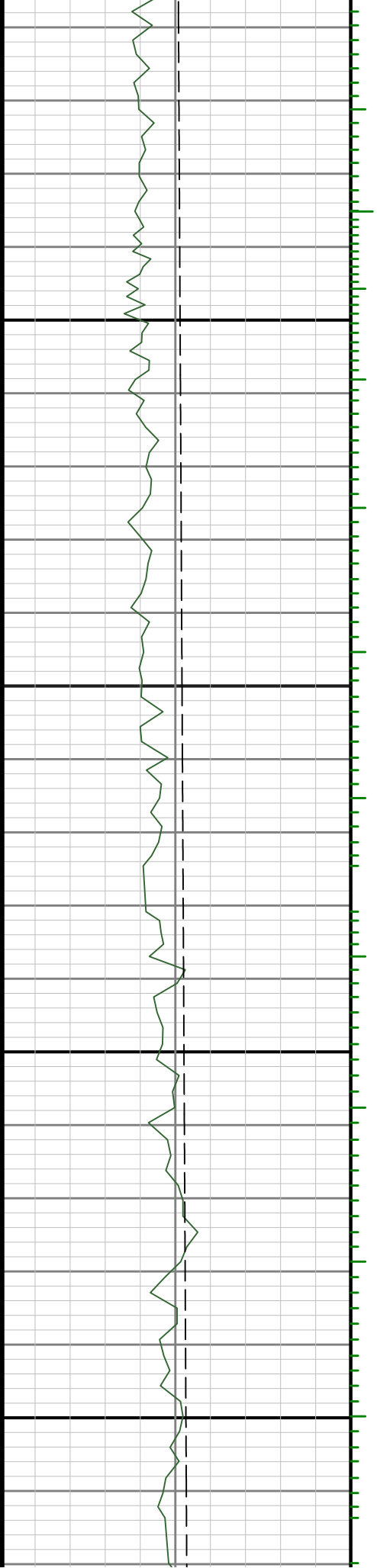


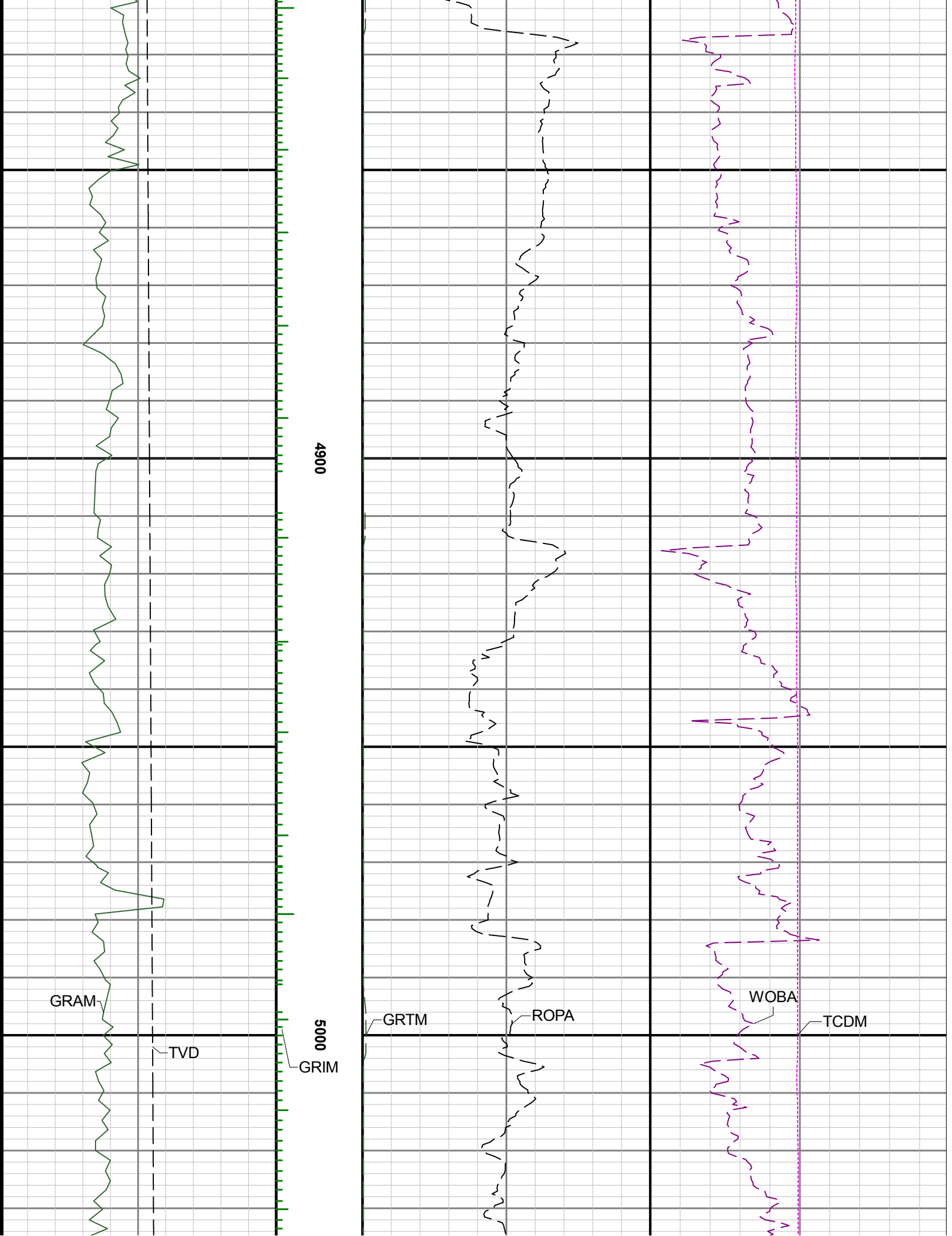


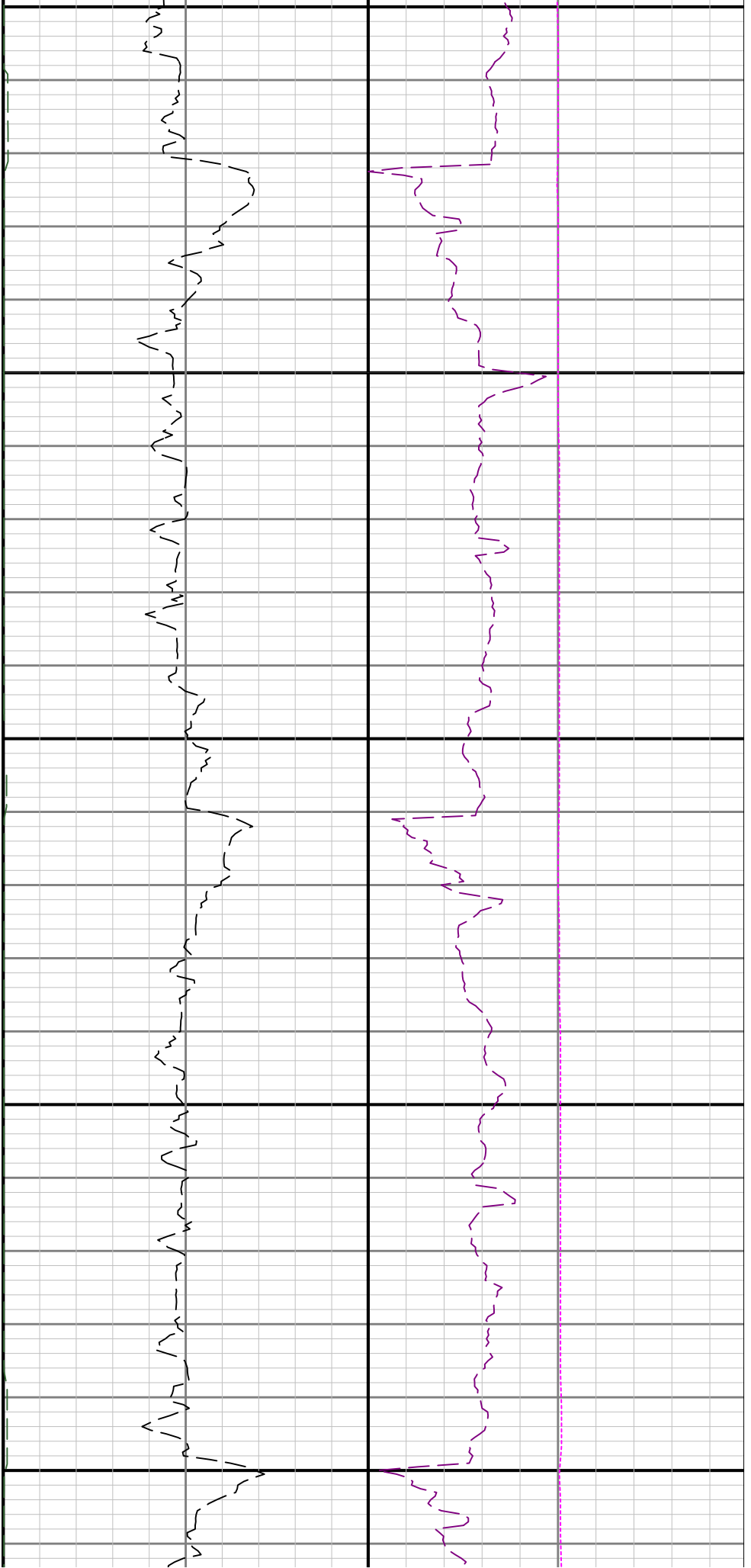


4700

4800

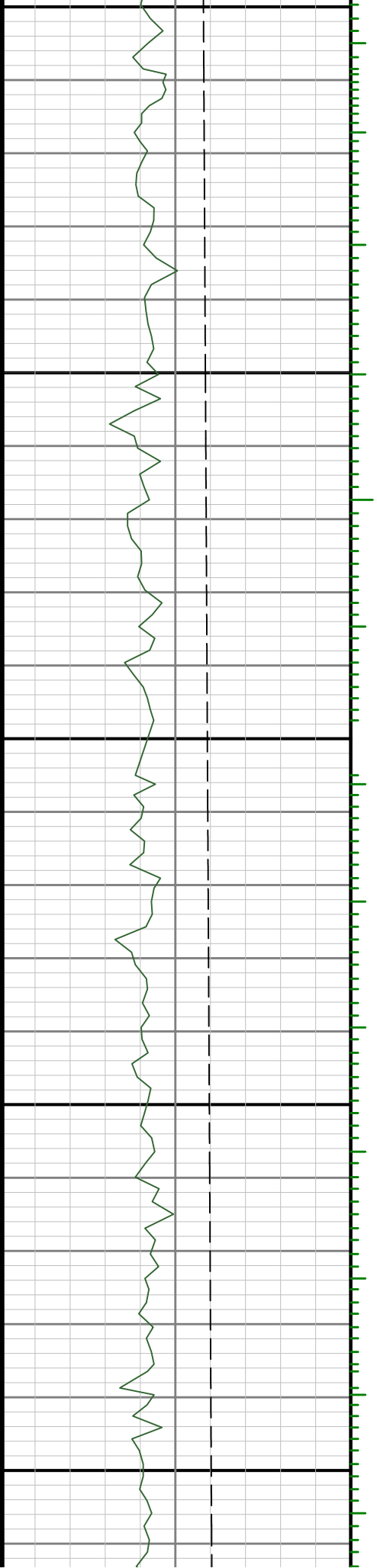


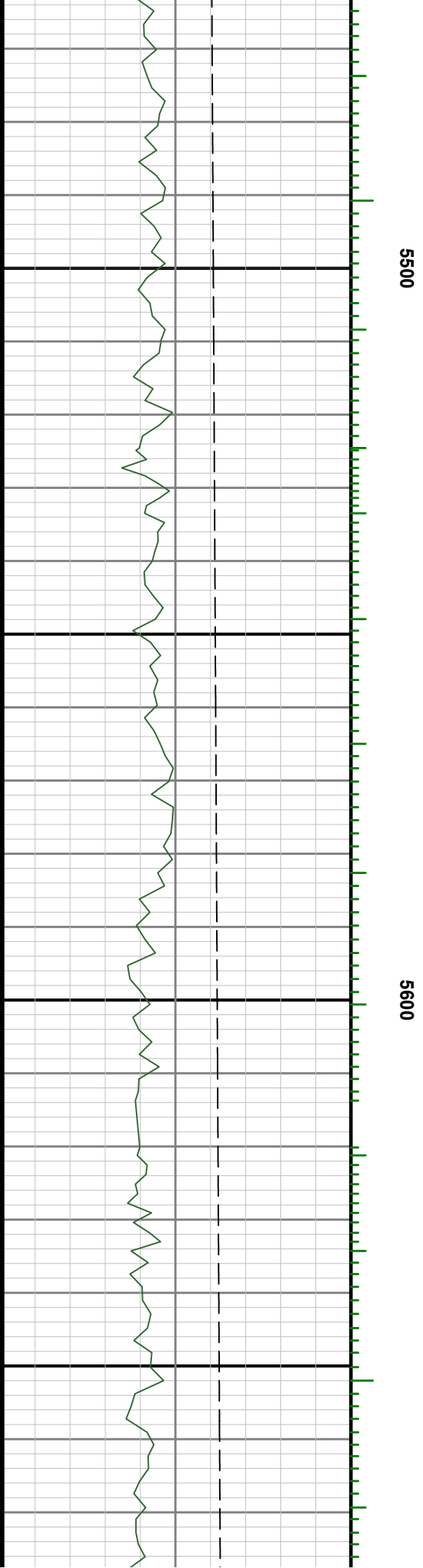
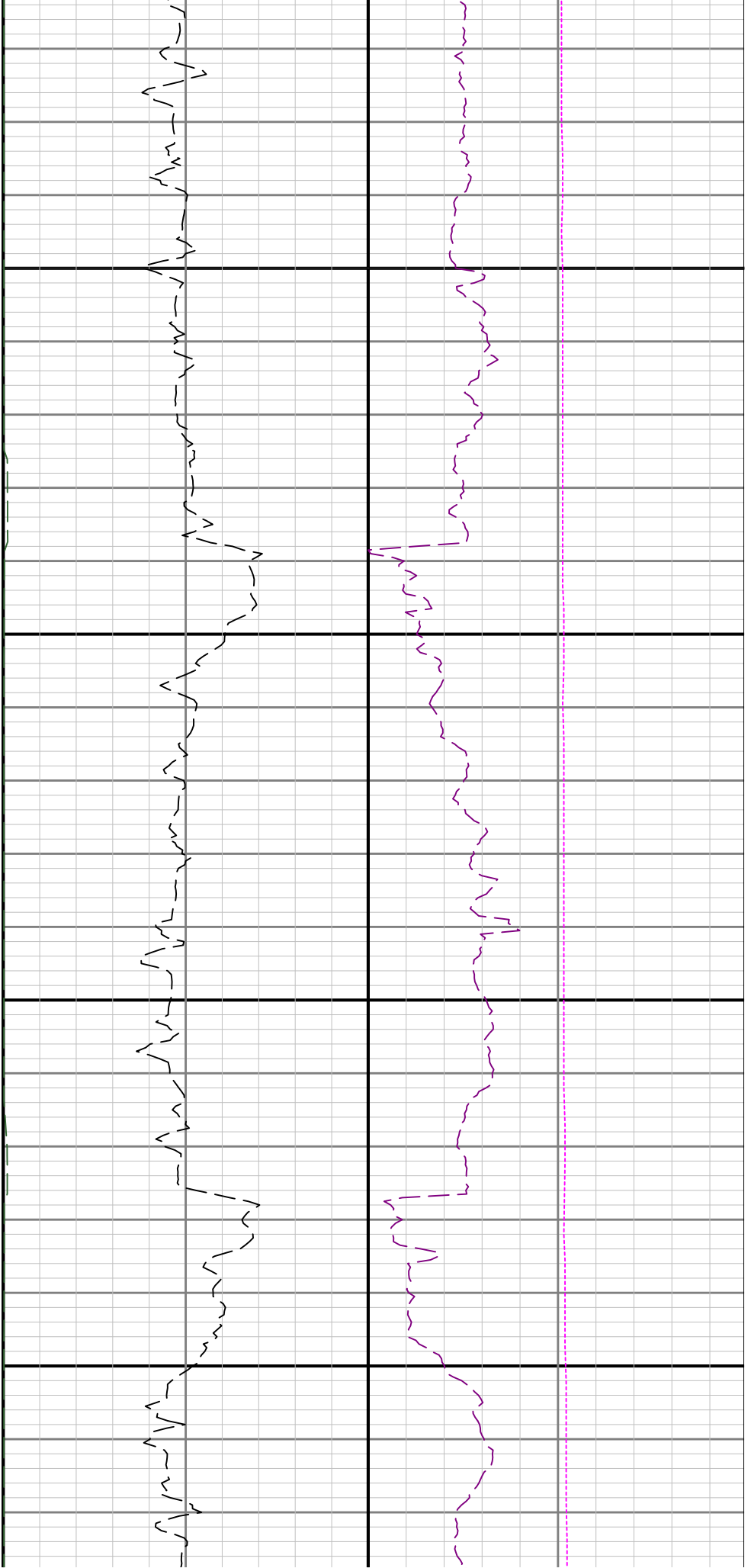


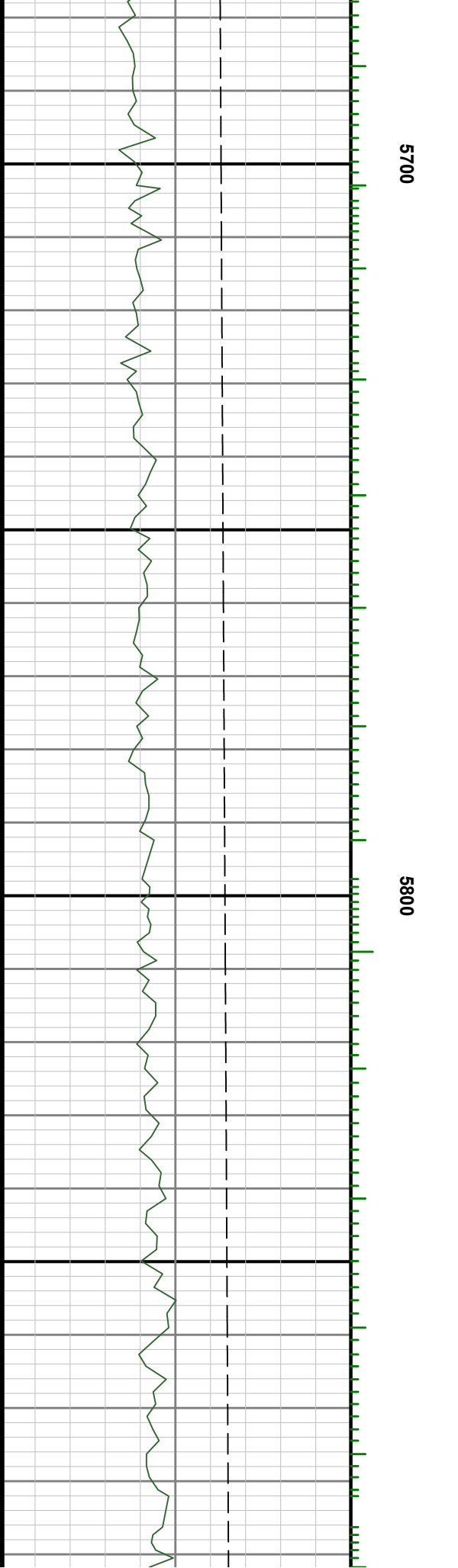
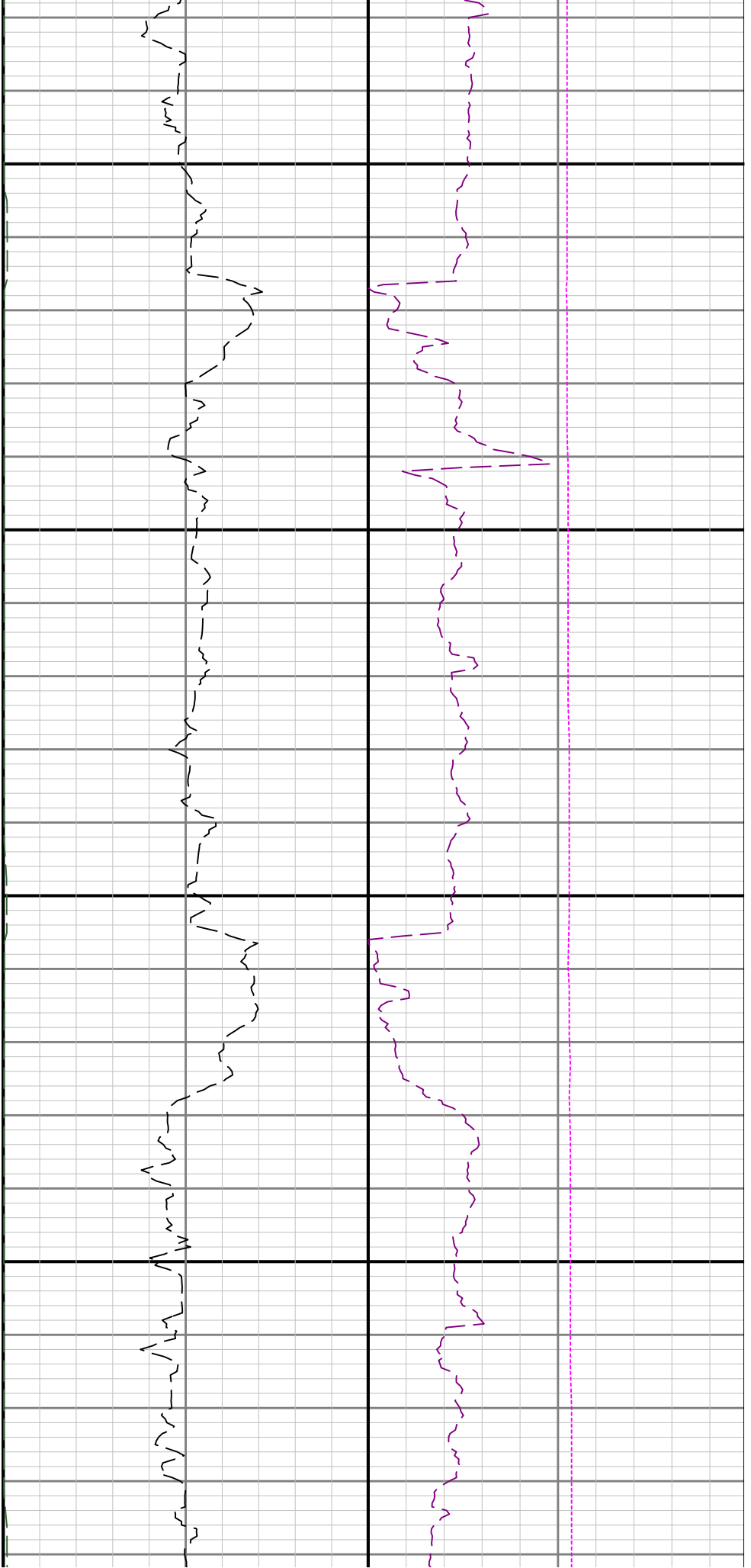


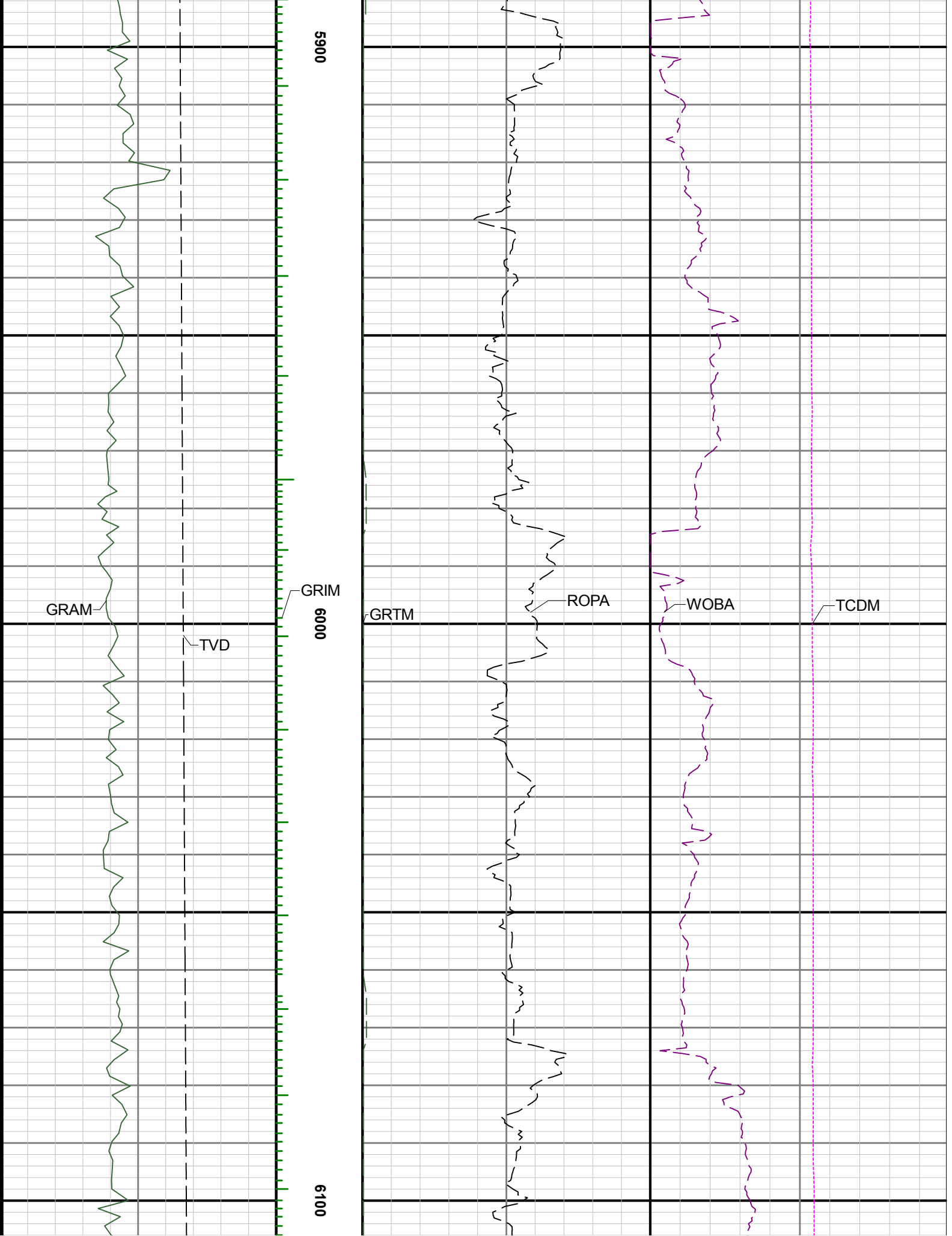
5300

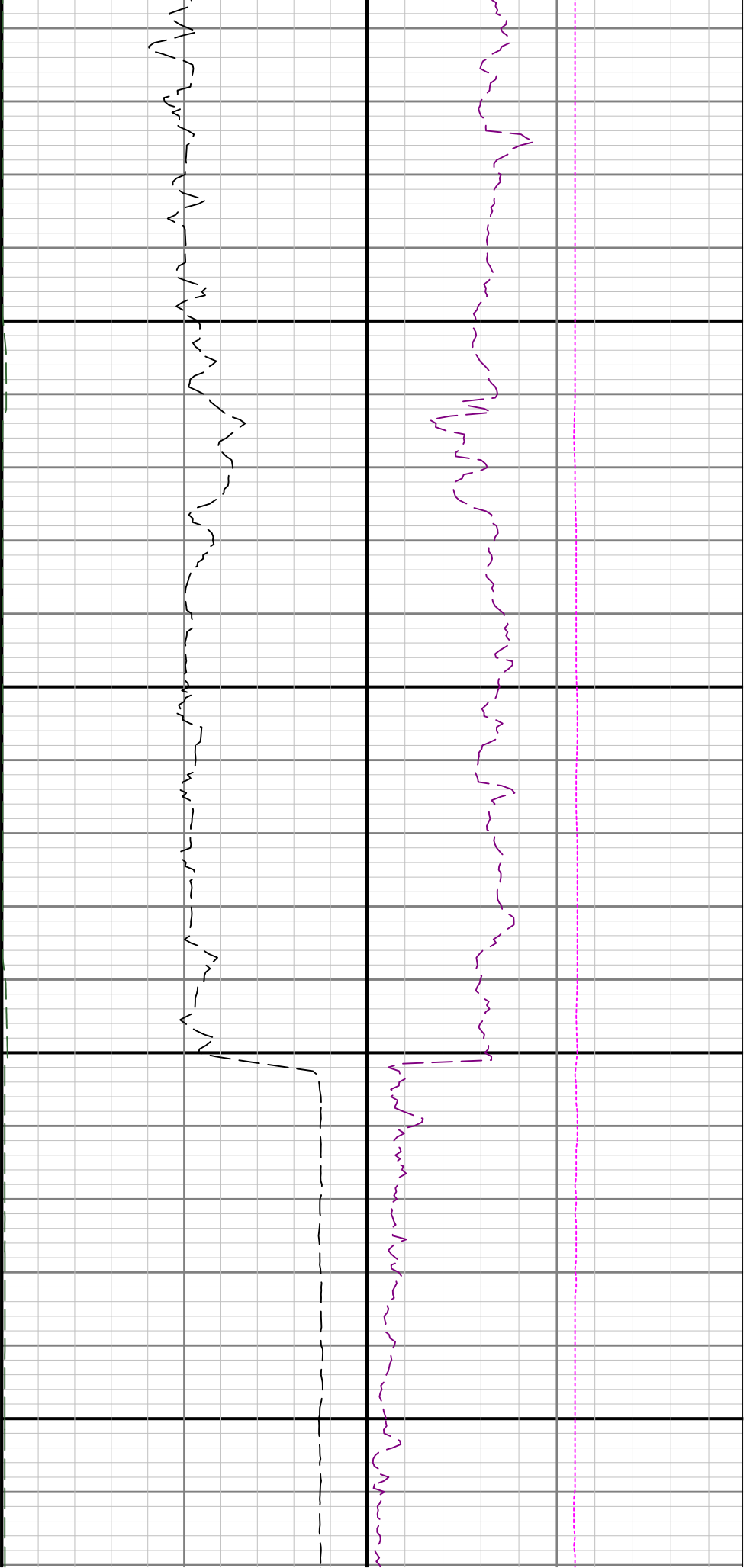
5400





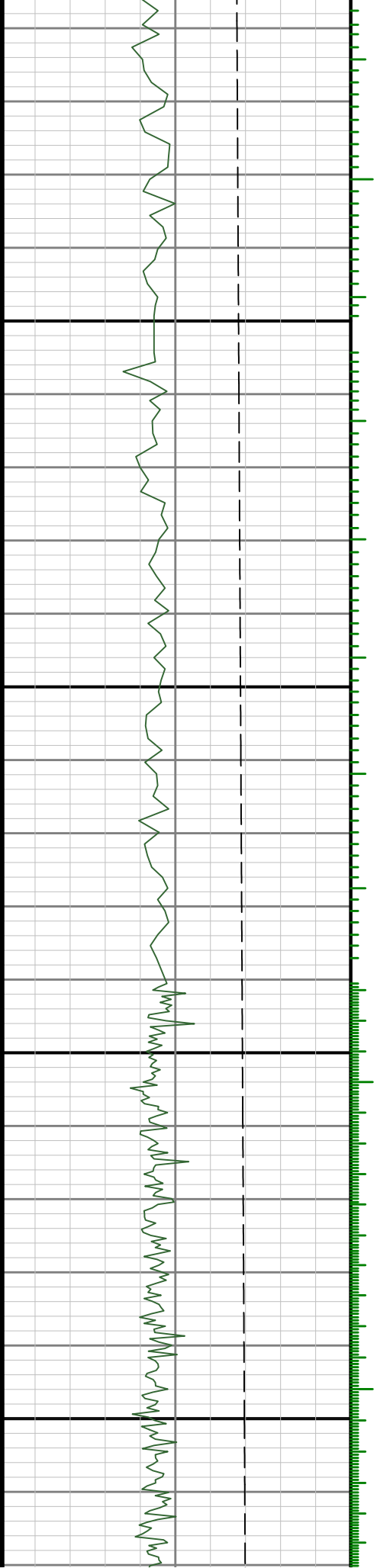


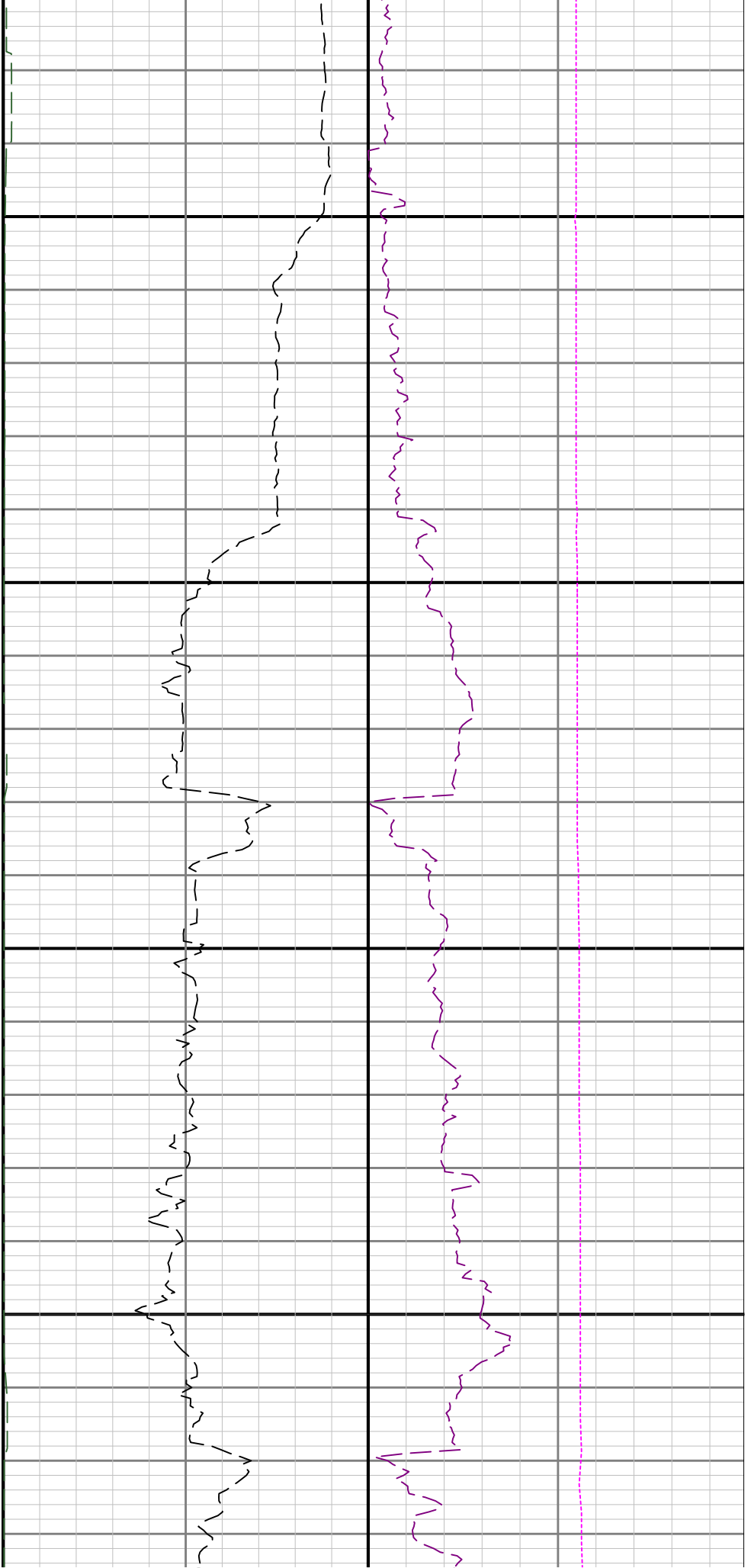




6200

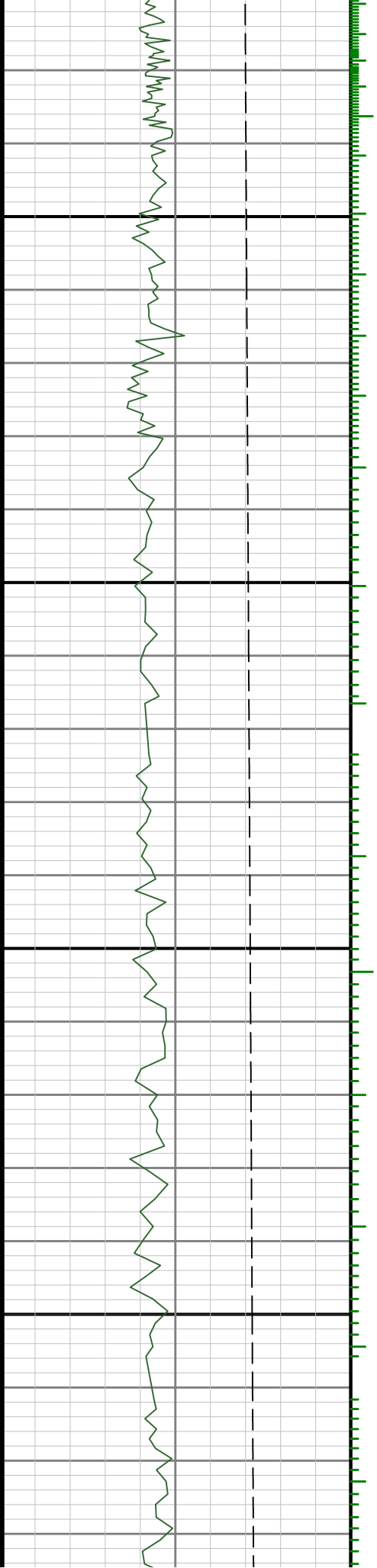
6300

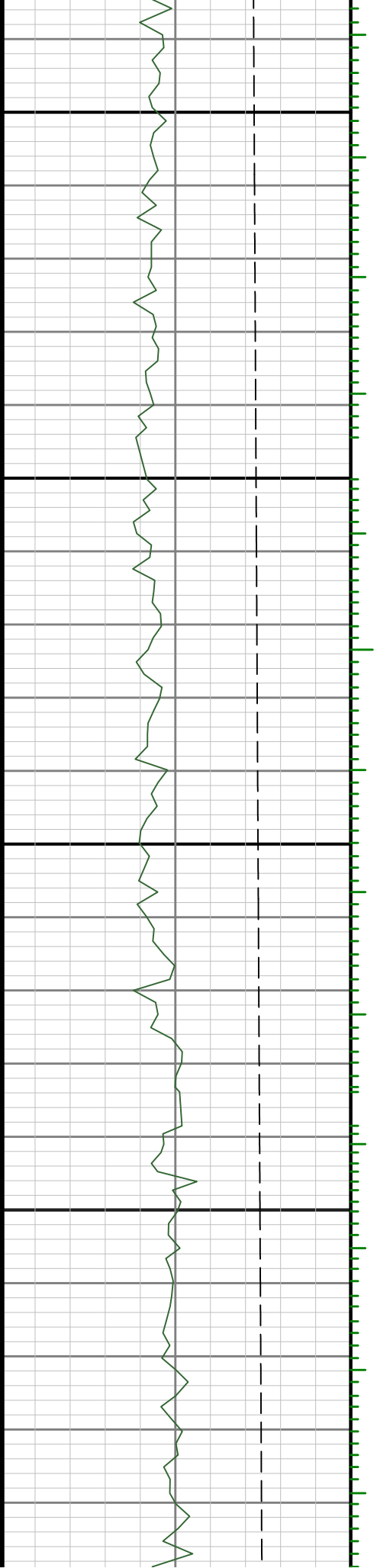




6400

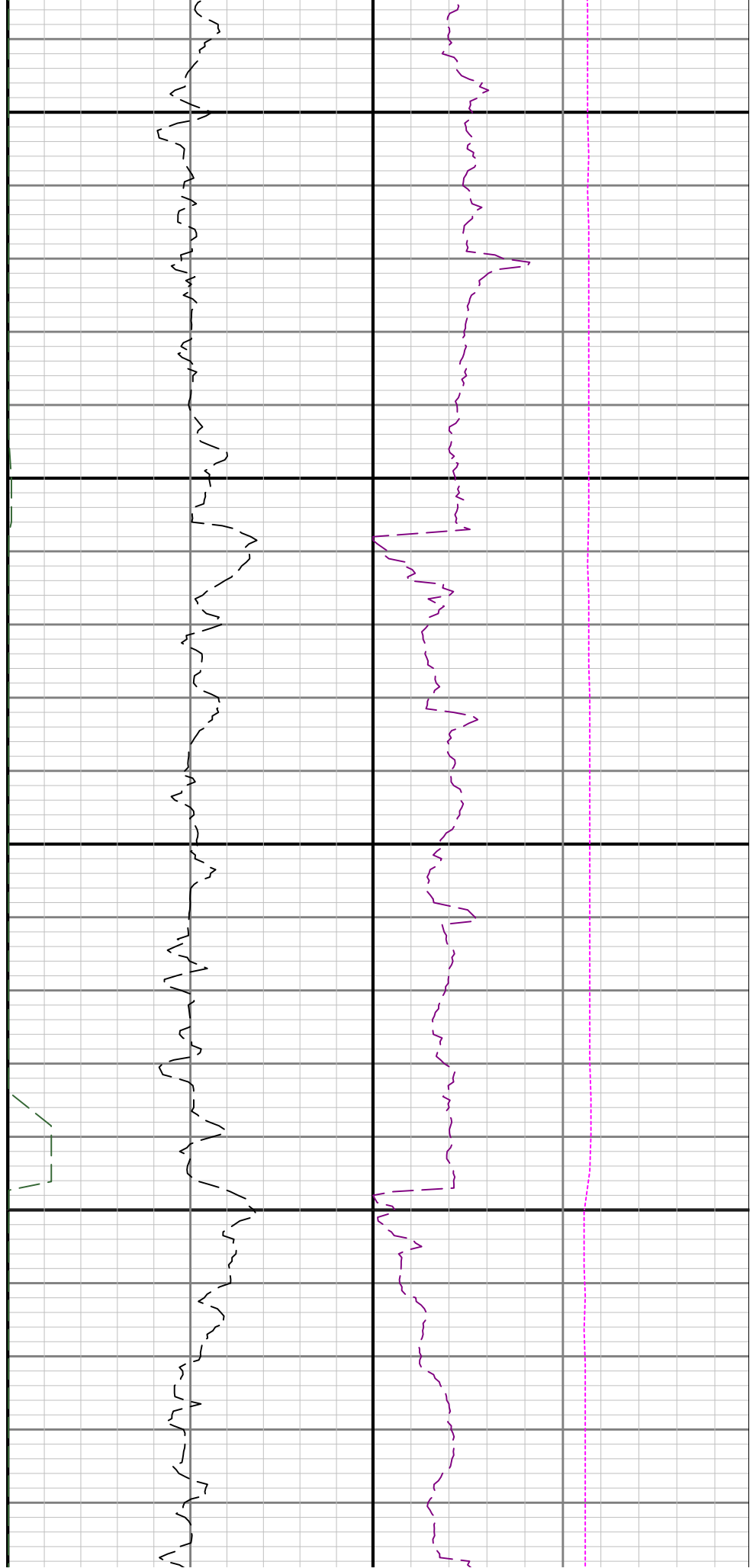
6500

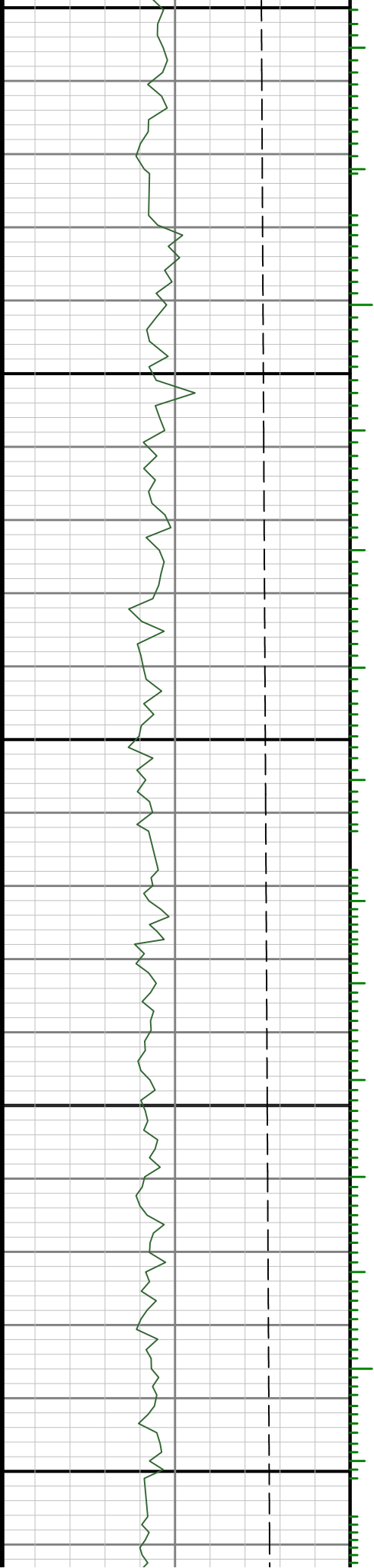




6600

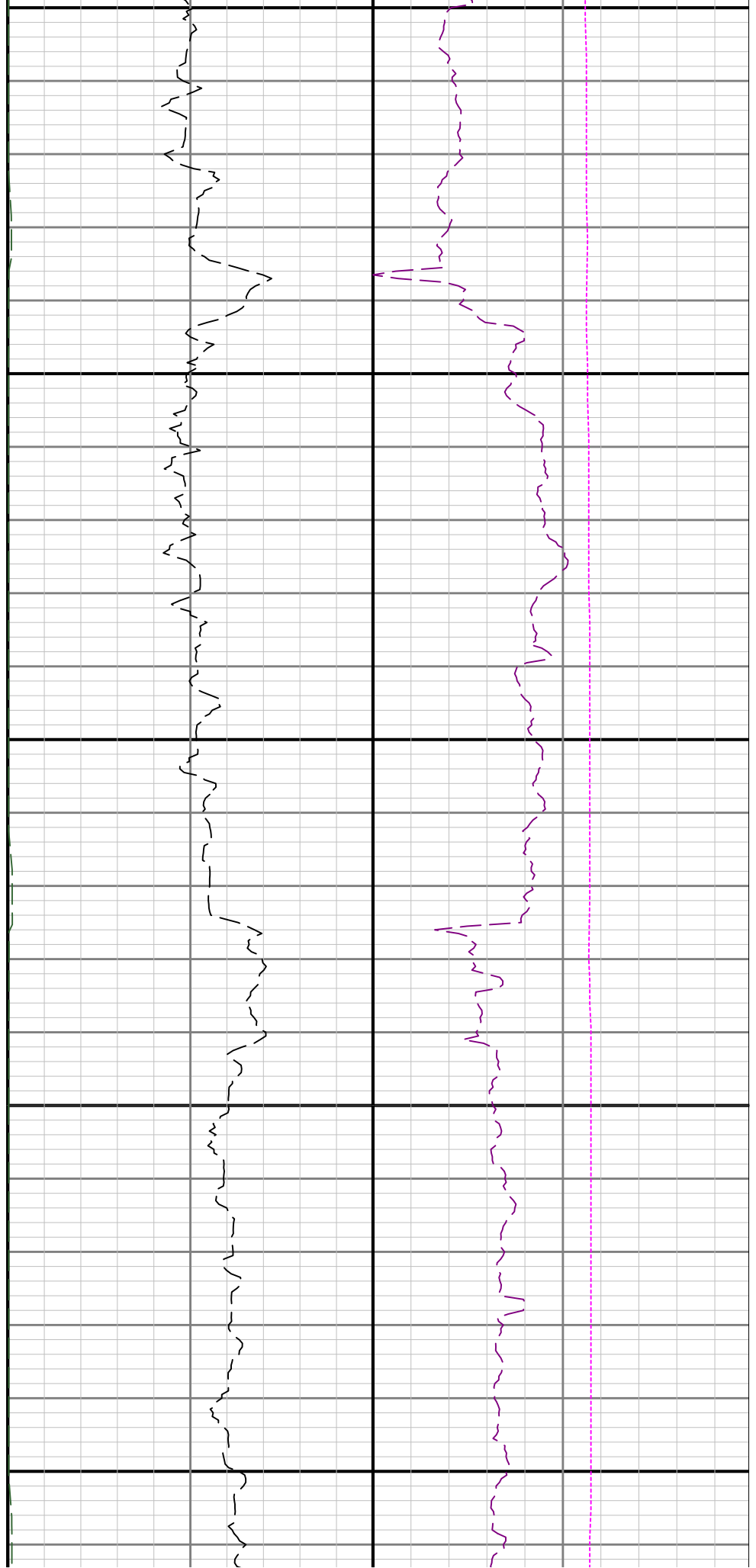
6700

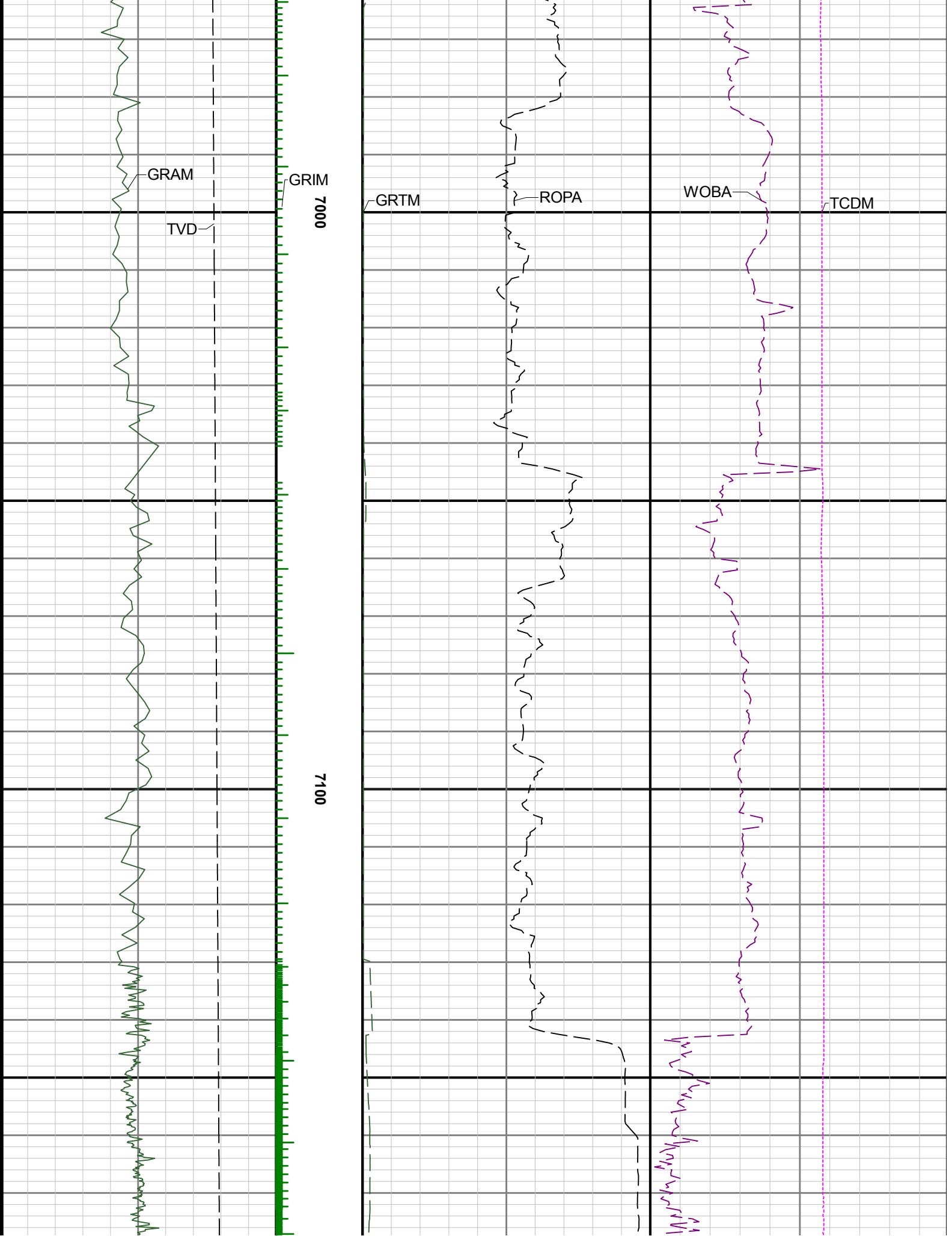


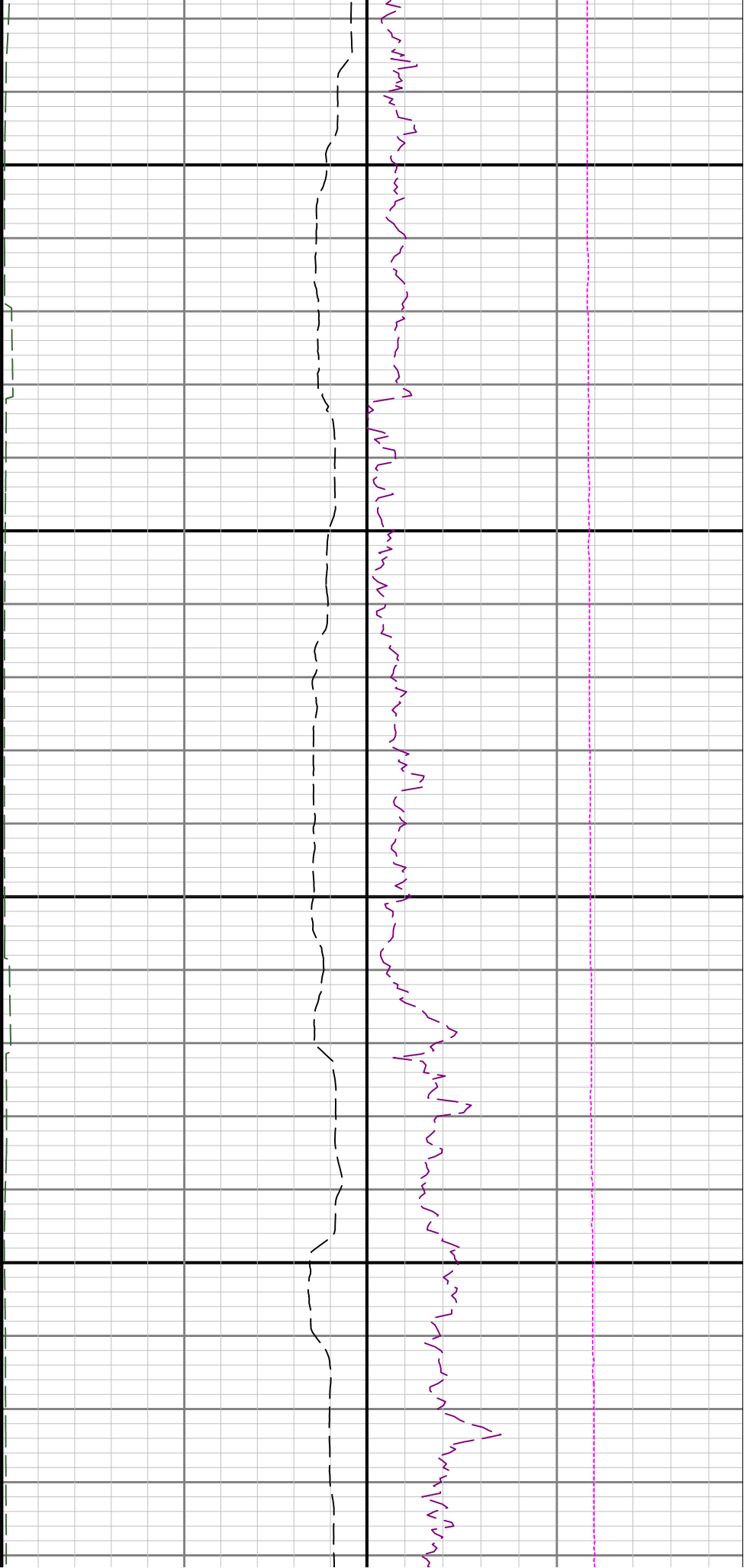


0069

0089

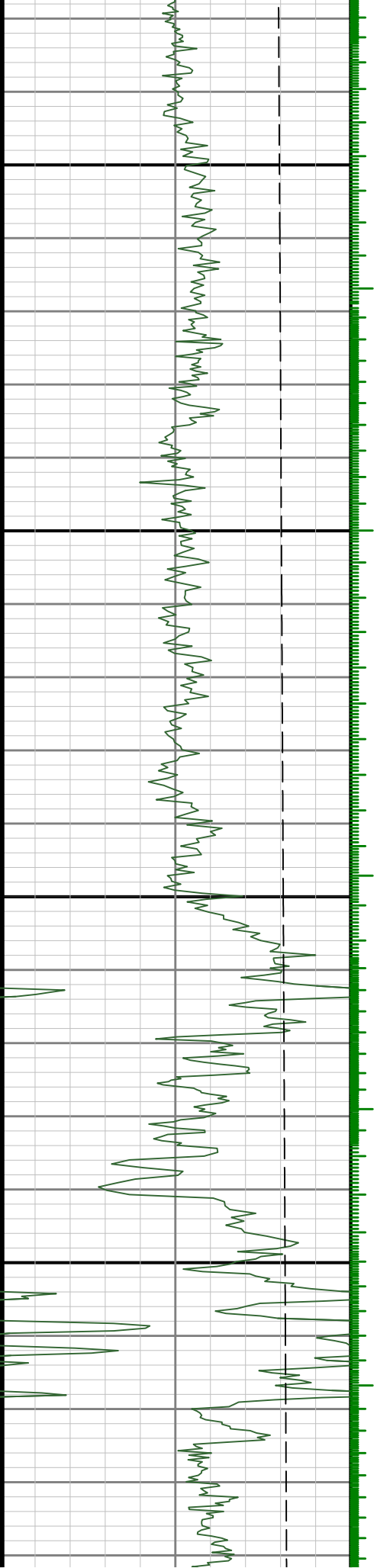


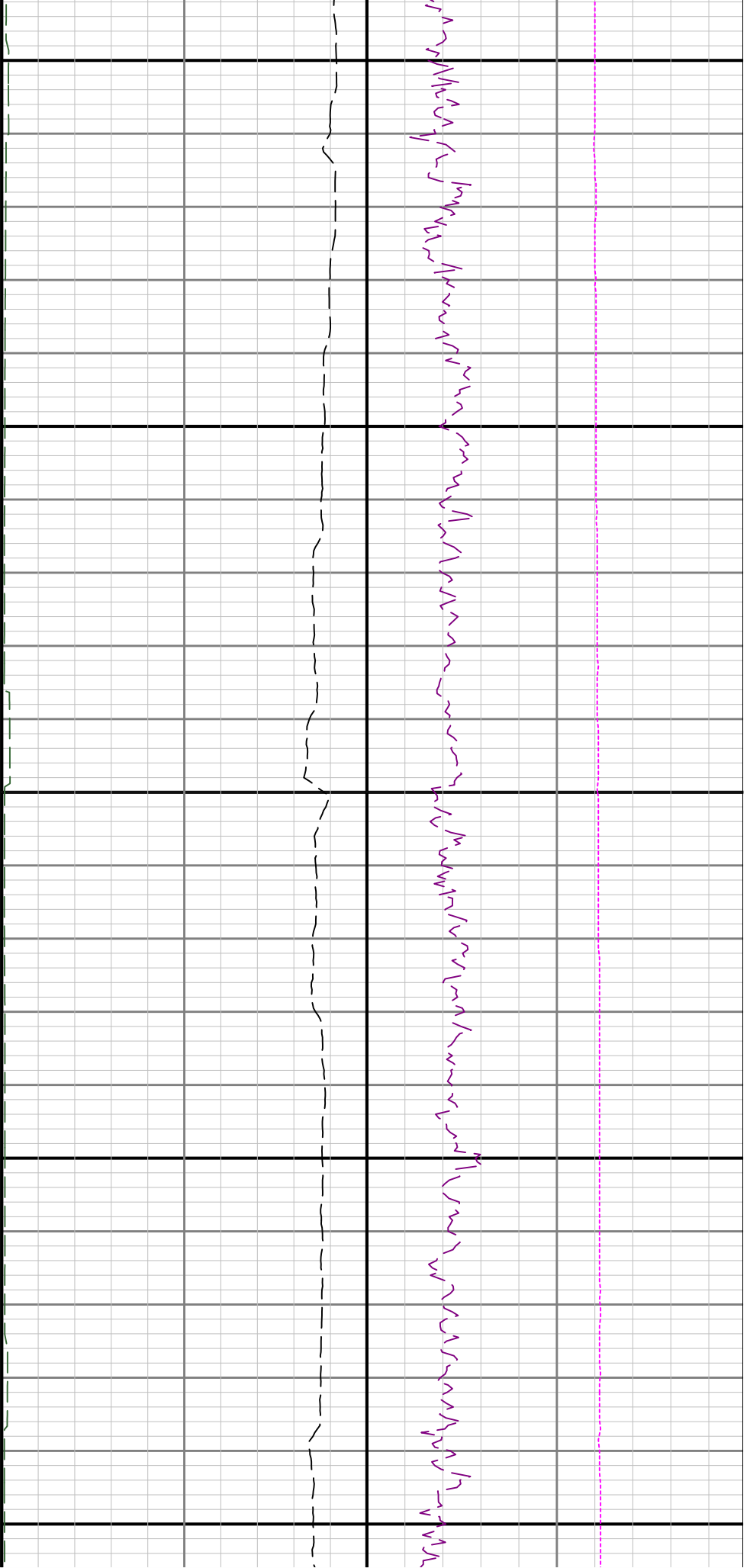




7200

7300

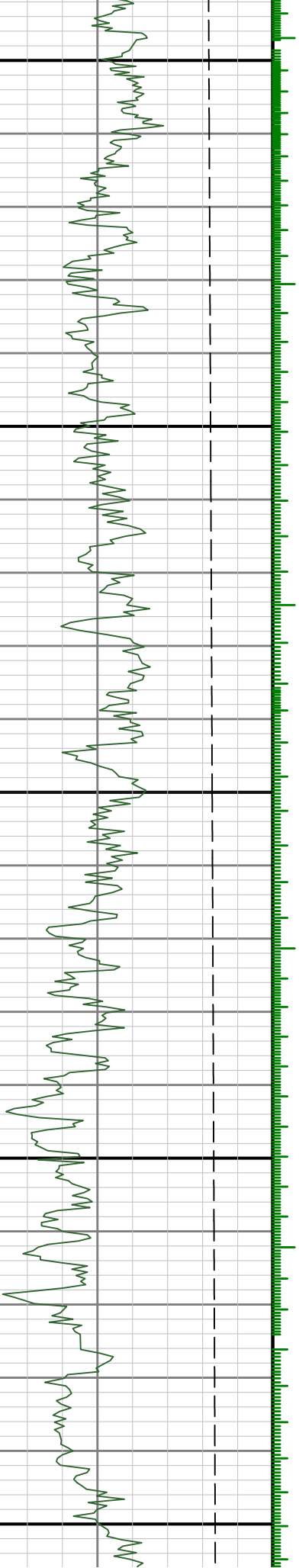


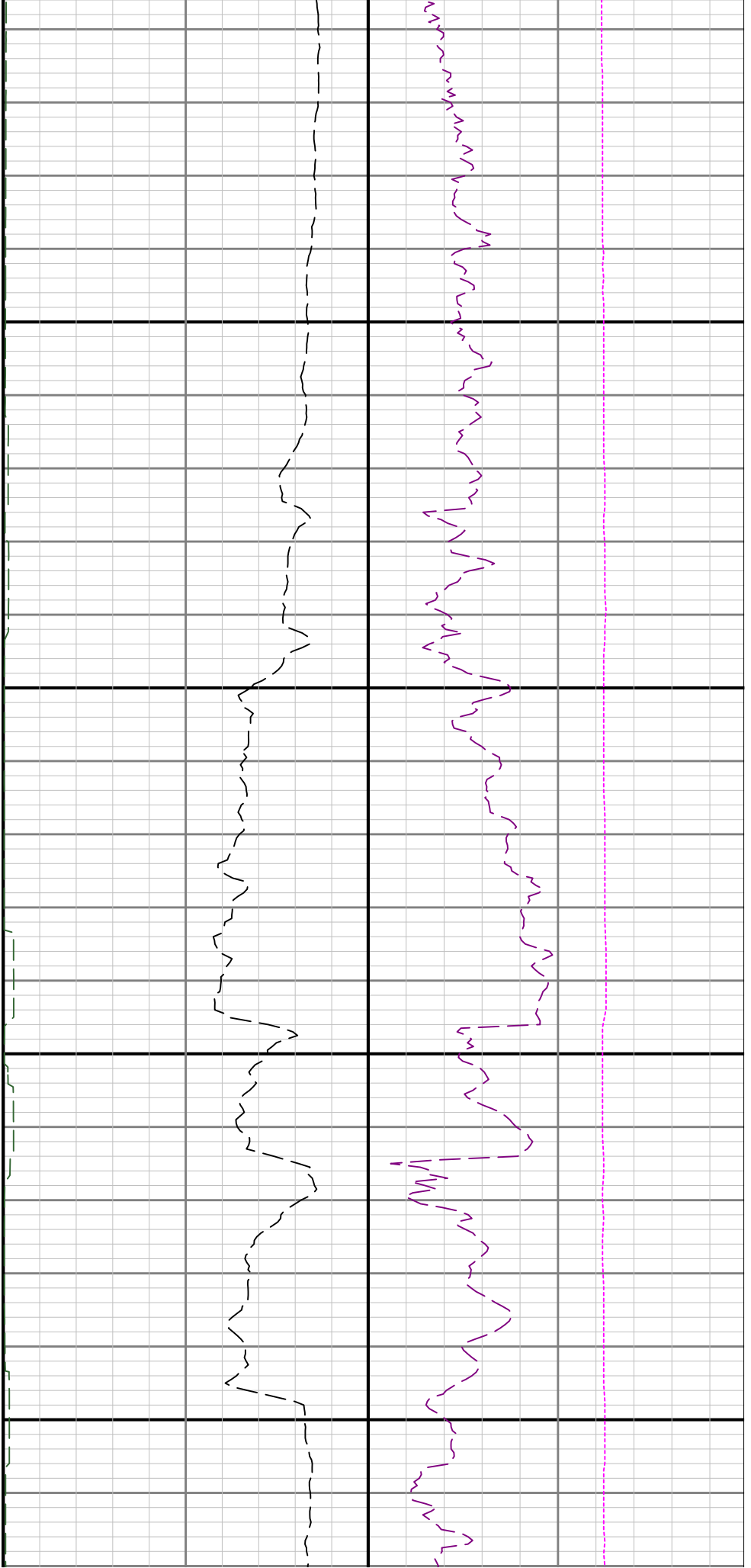


7400

7500

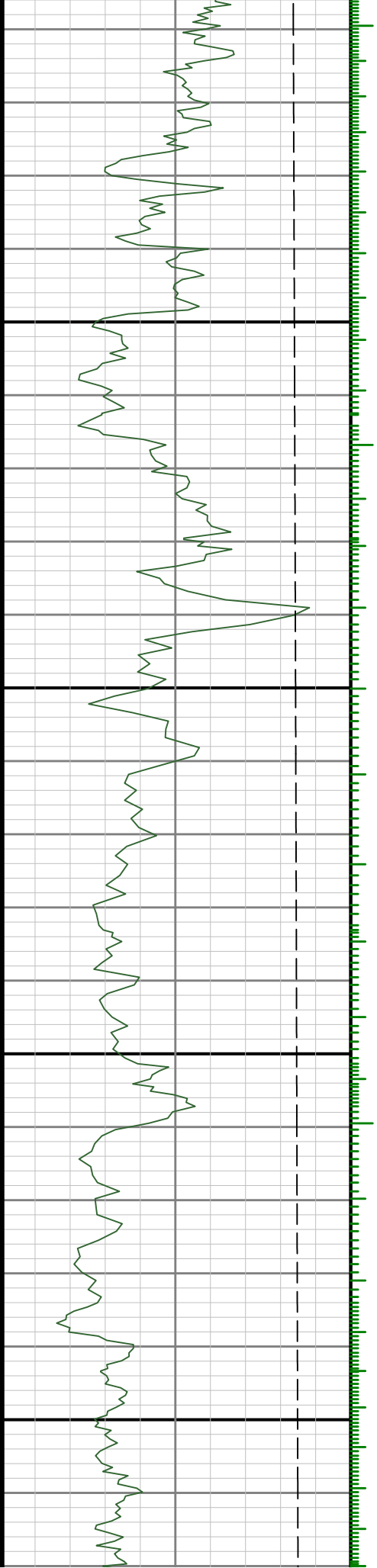
7600

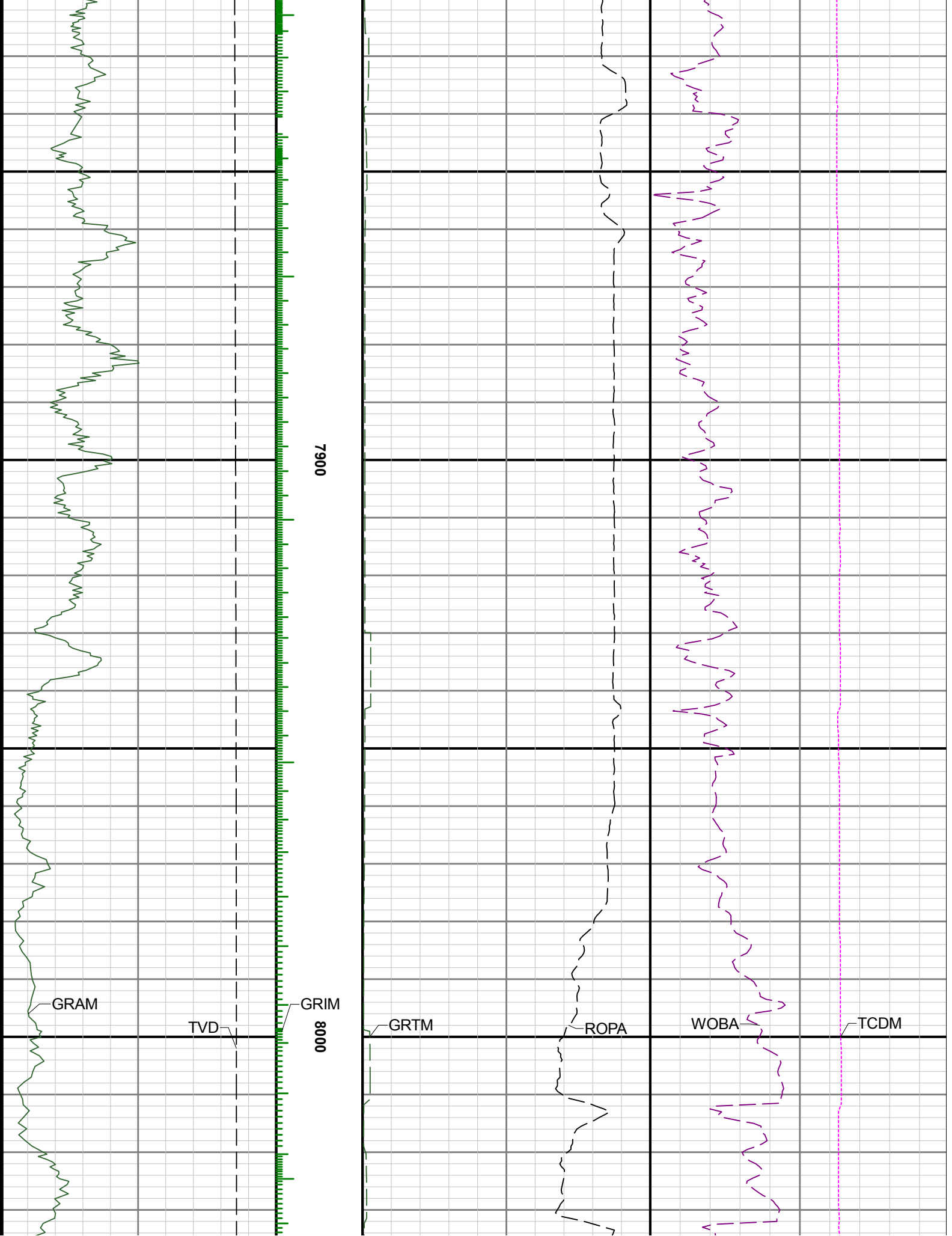


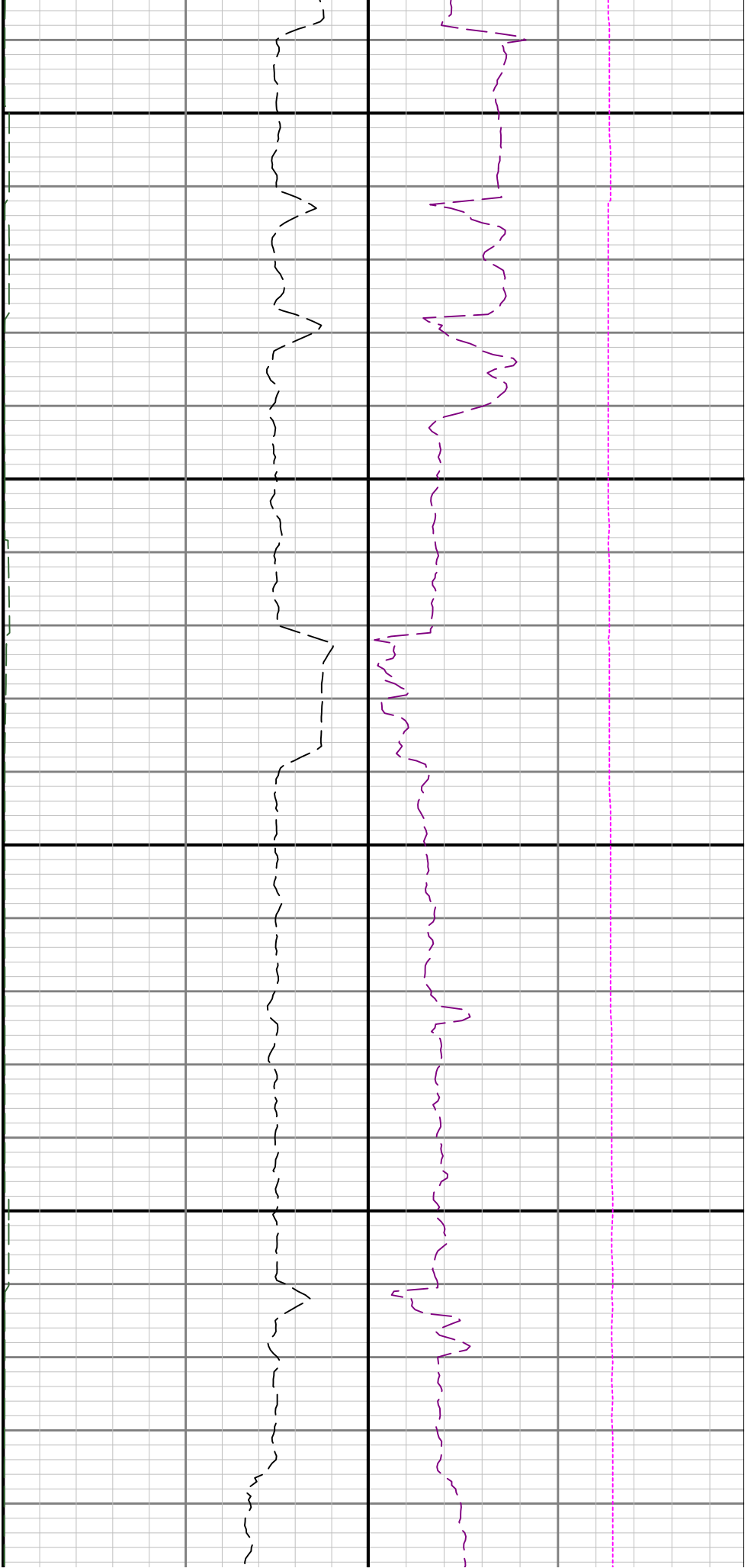


7700

7800

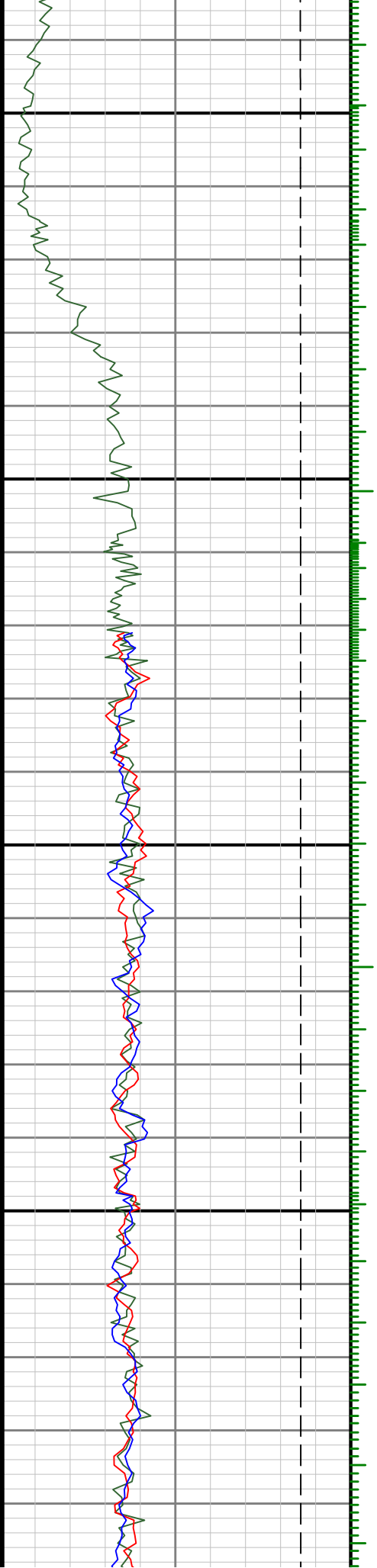


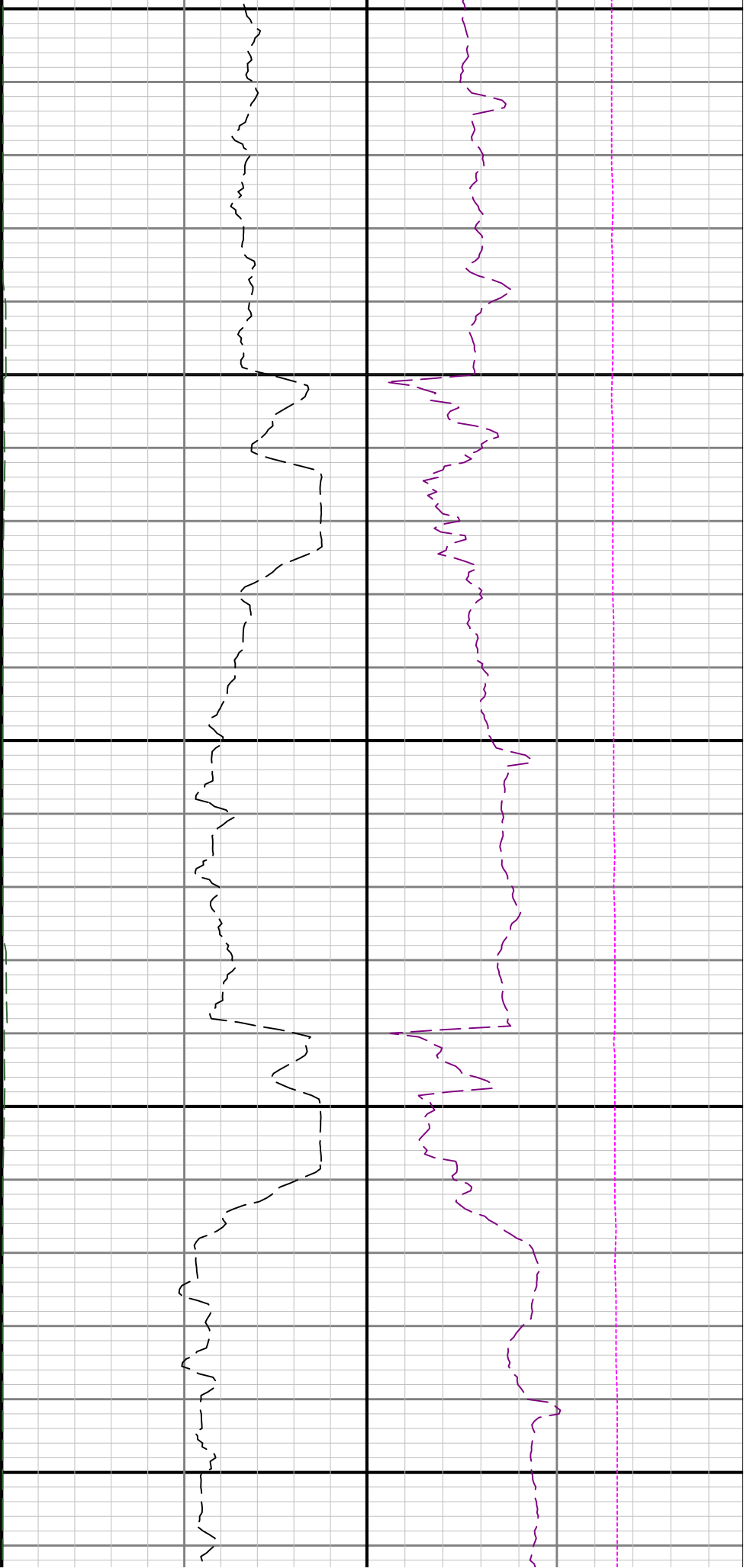




8100

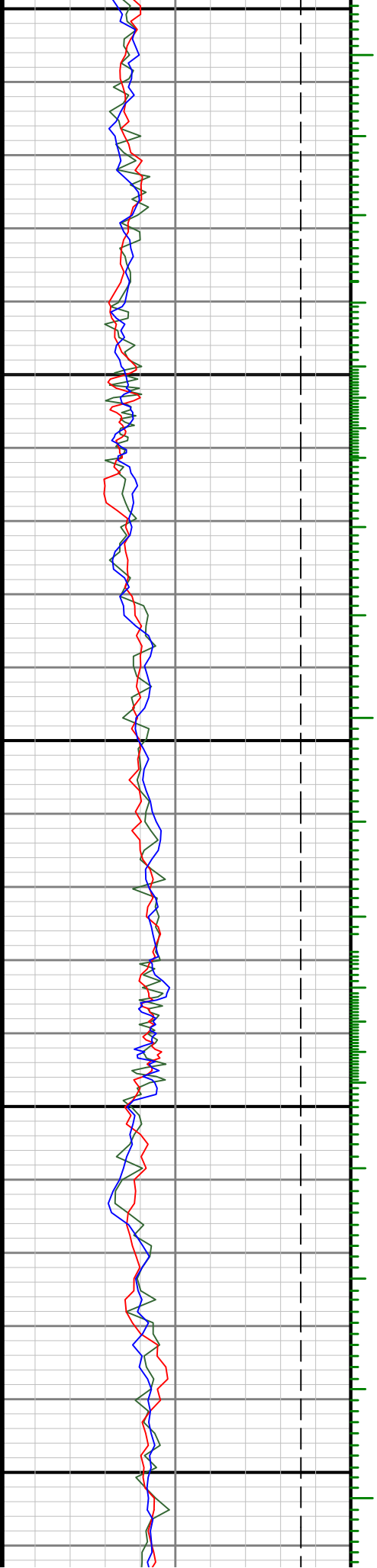
8200

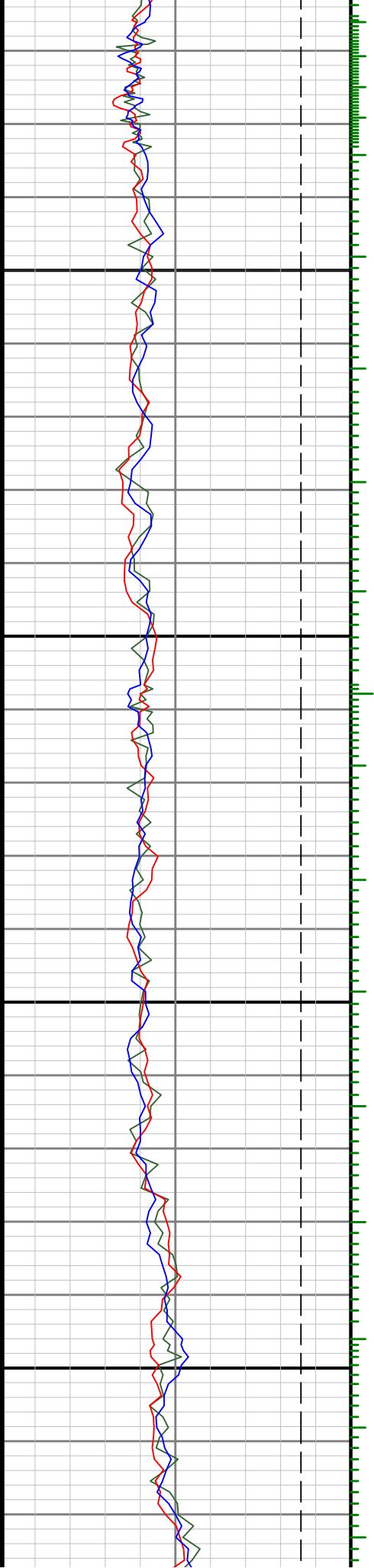




8300

8400

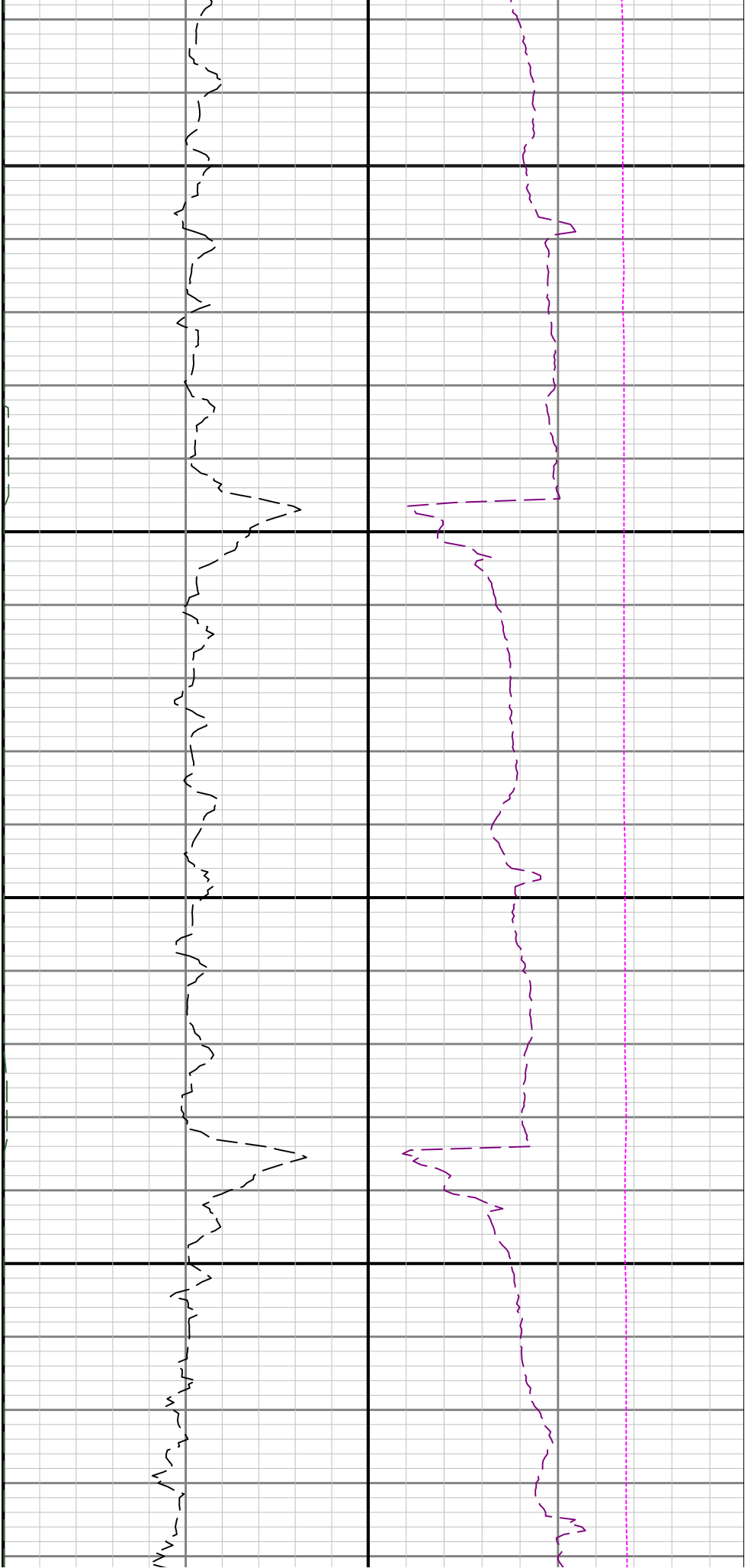




8500

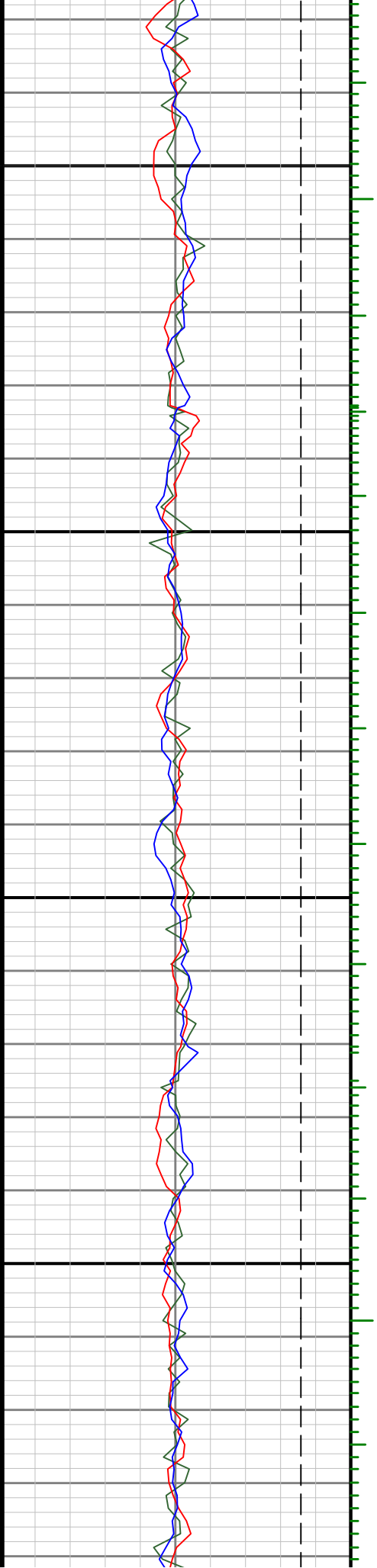
8600

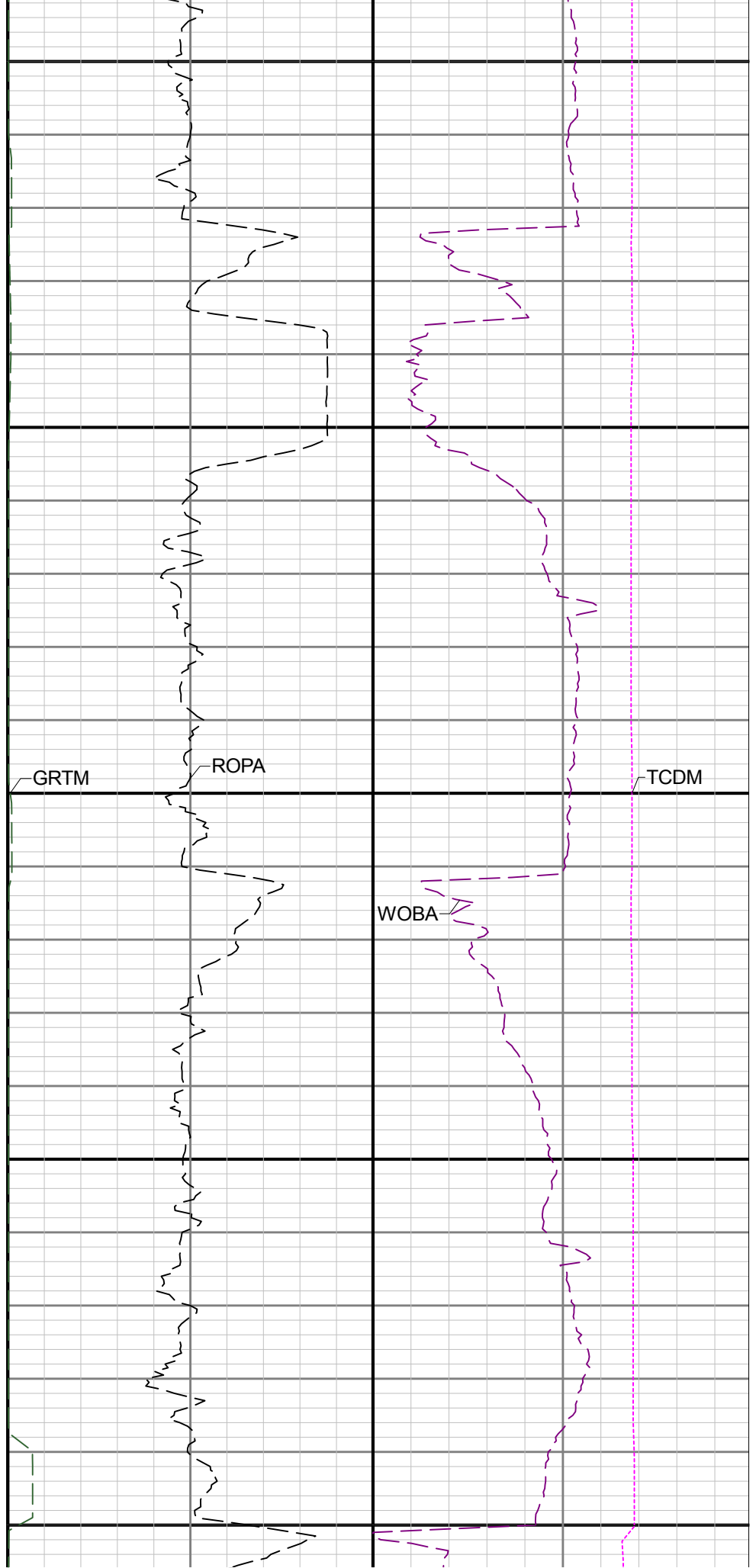
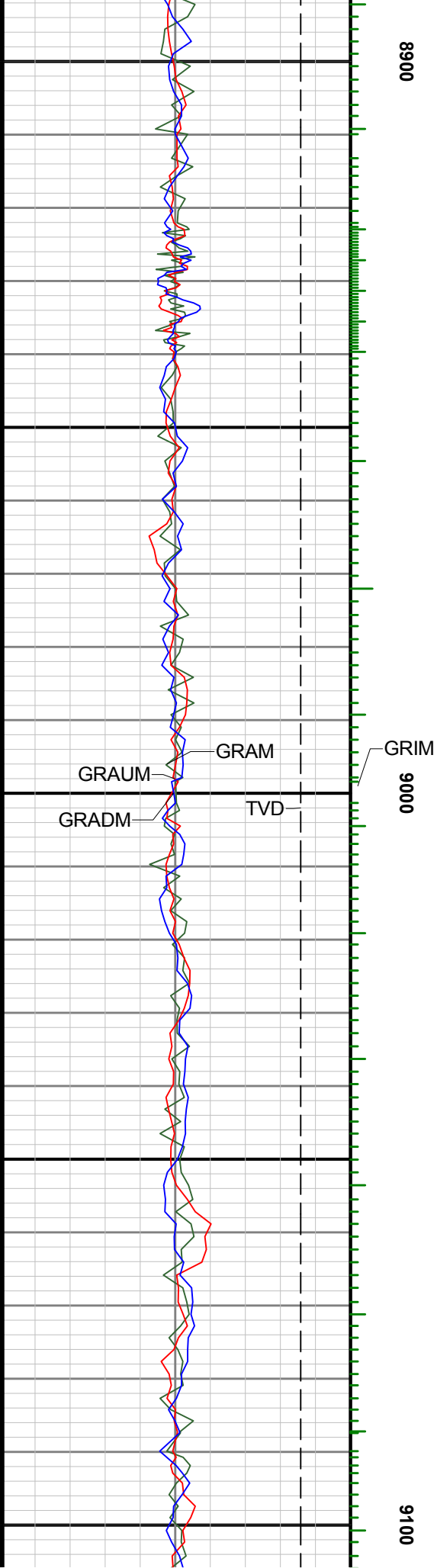




8700

8800

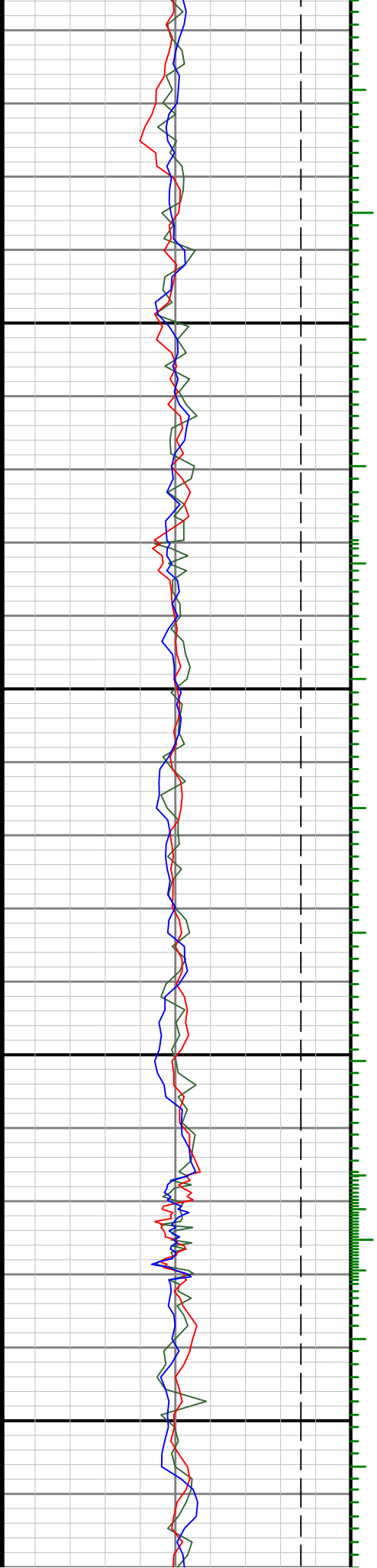


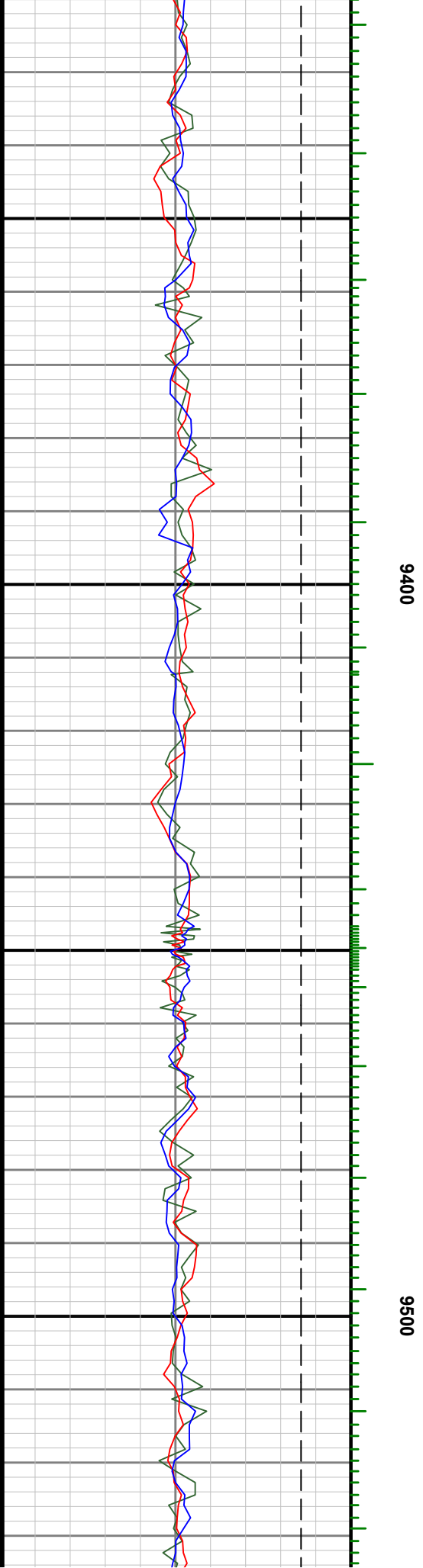


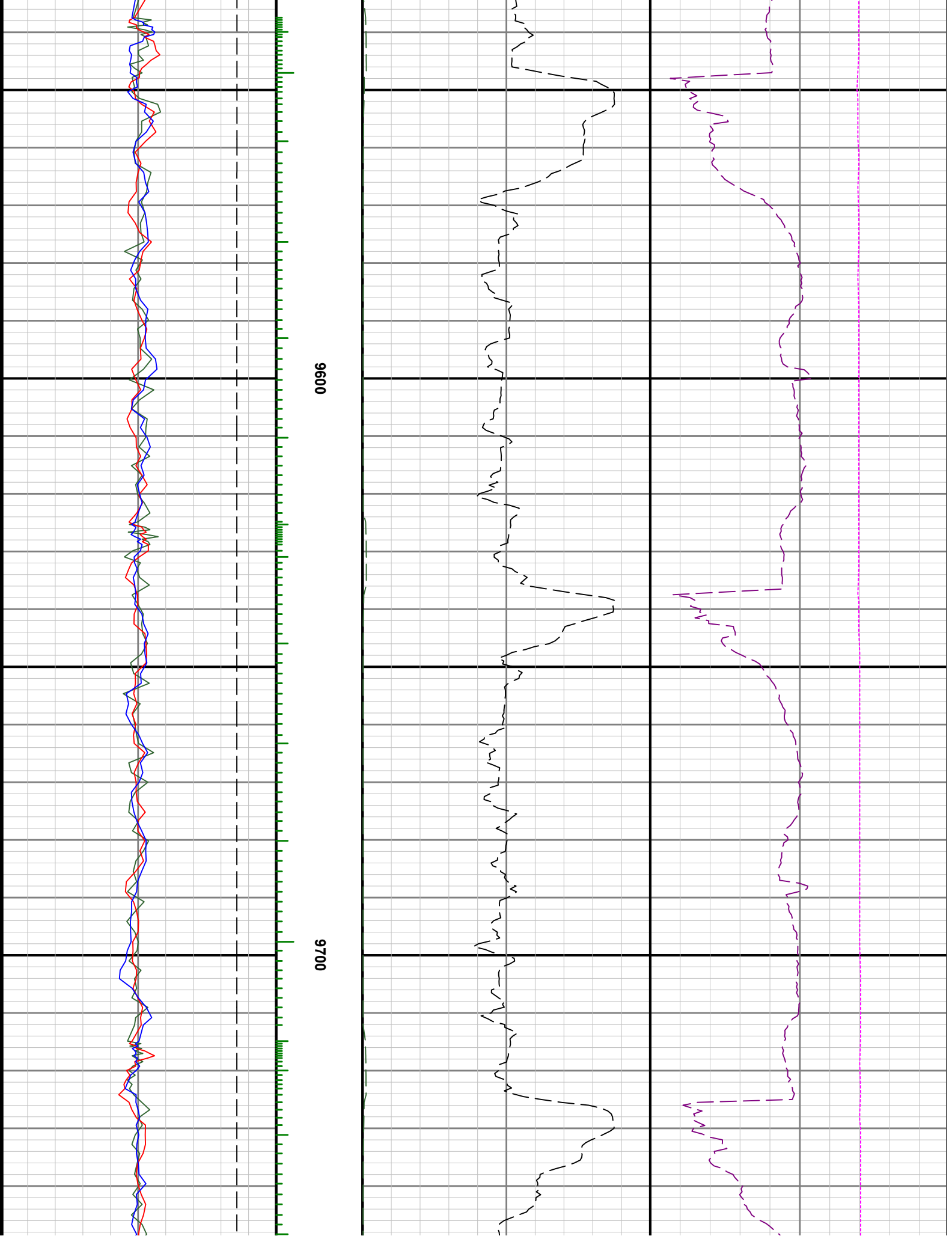


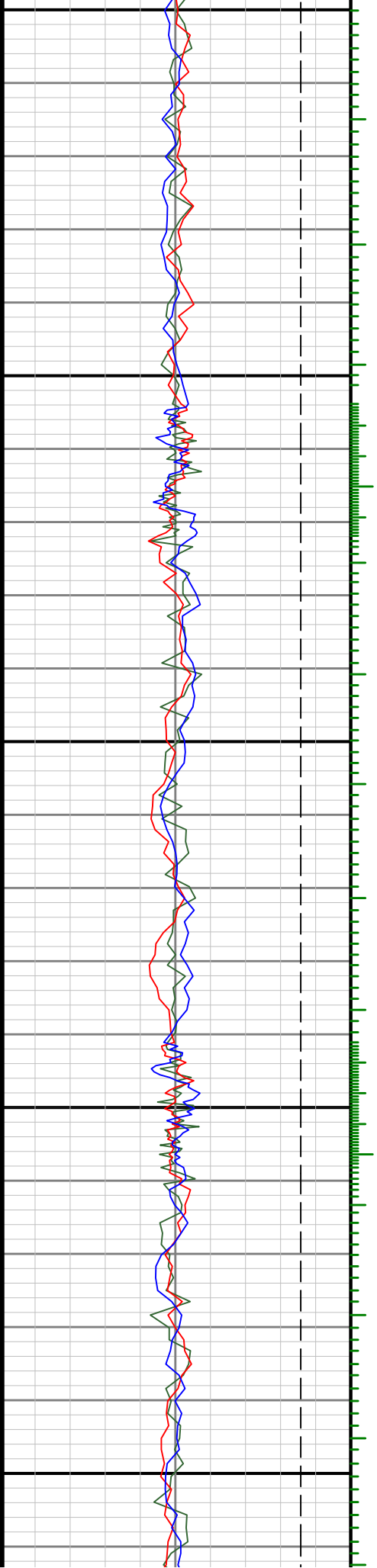
9200

9300



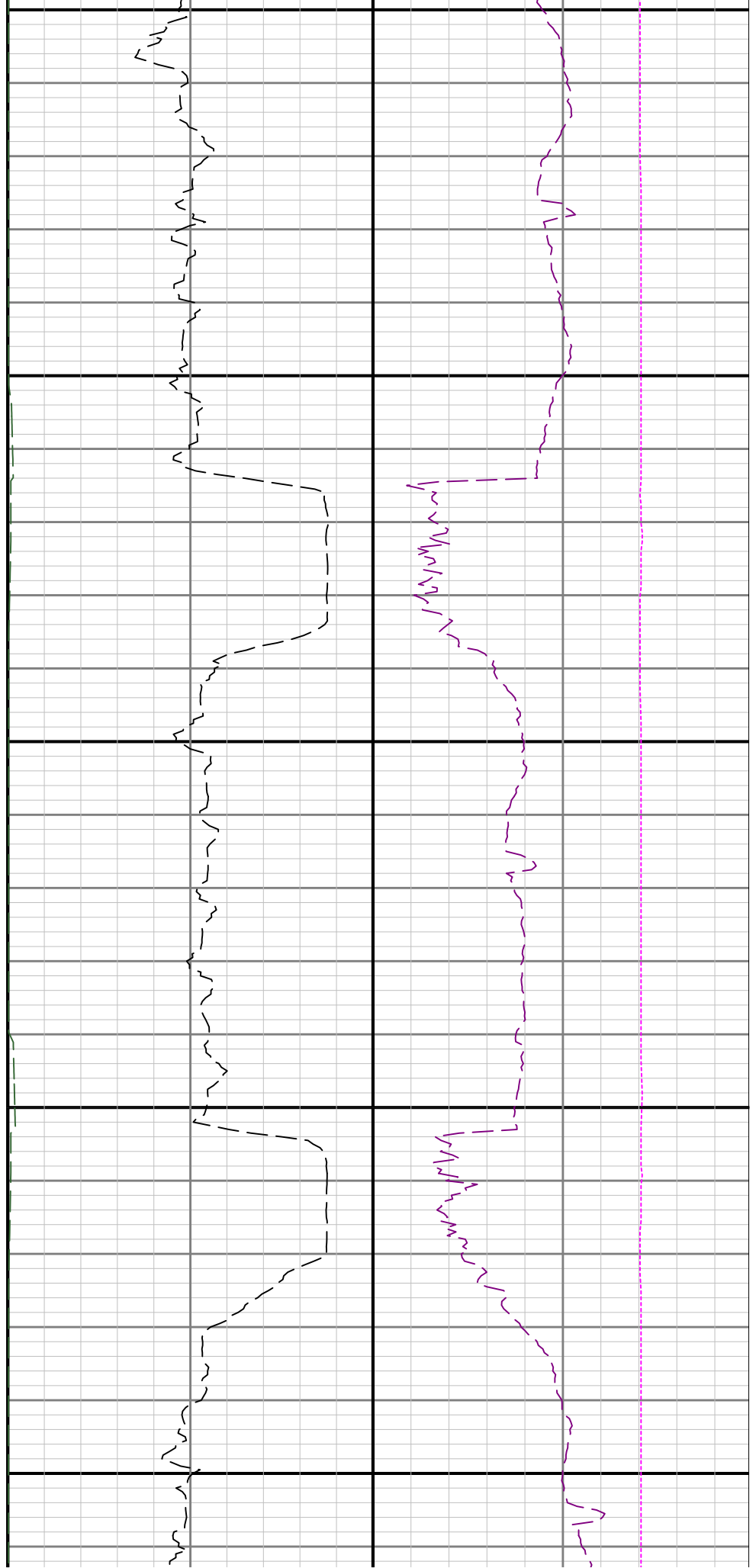


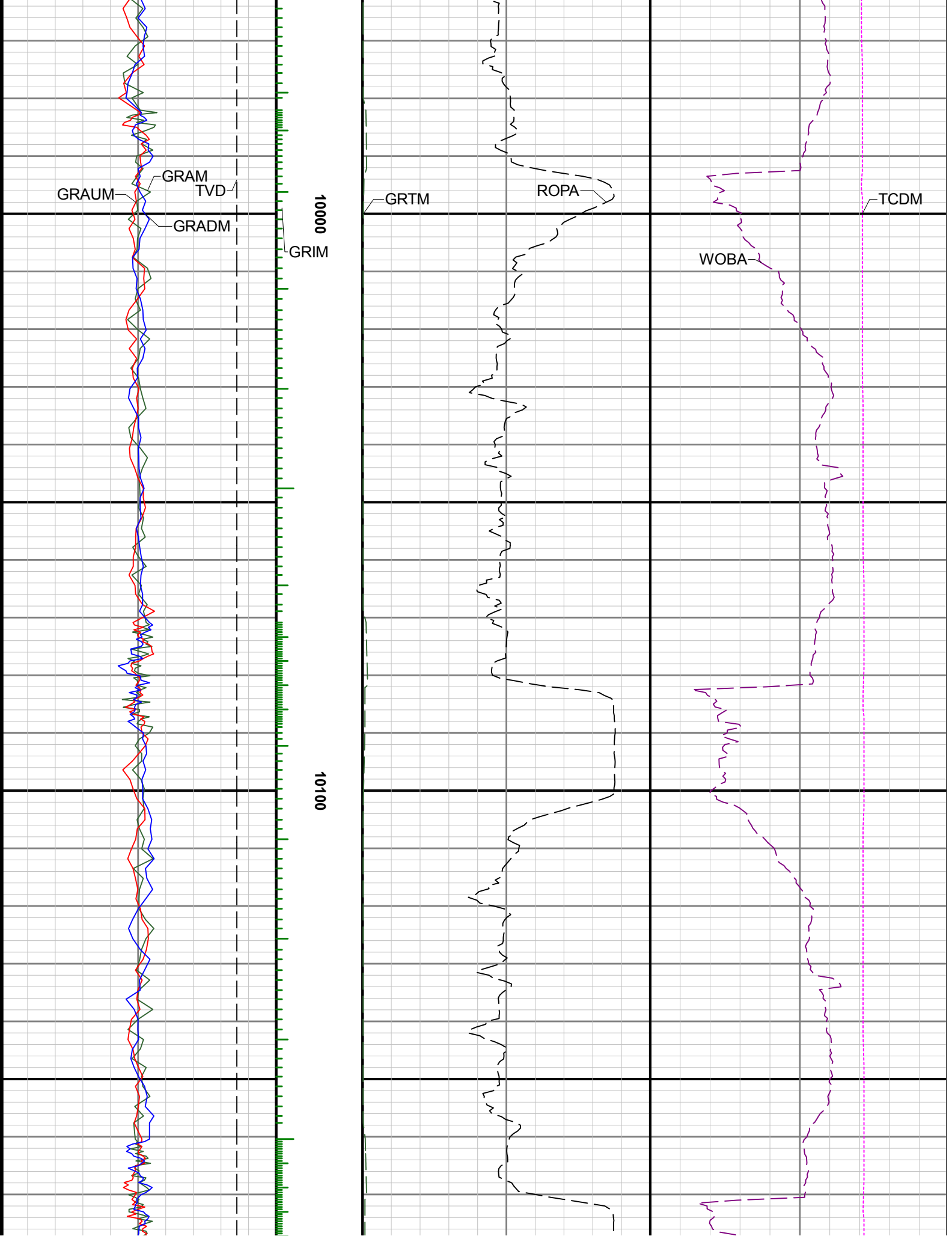


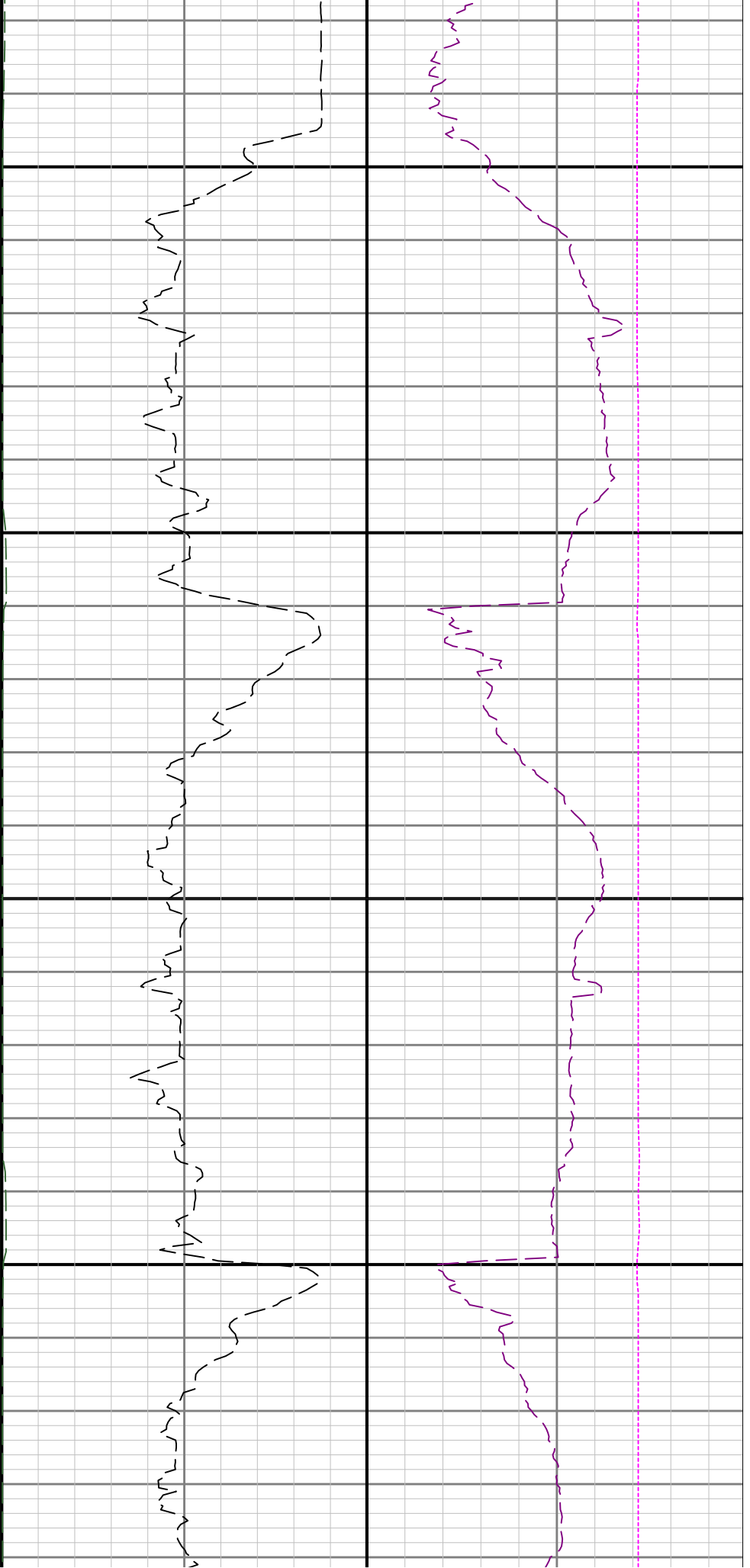


0066

0086

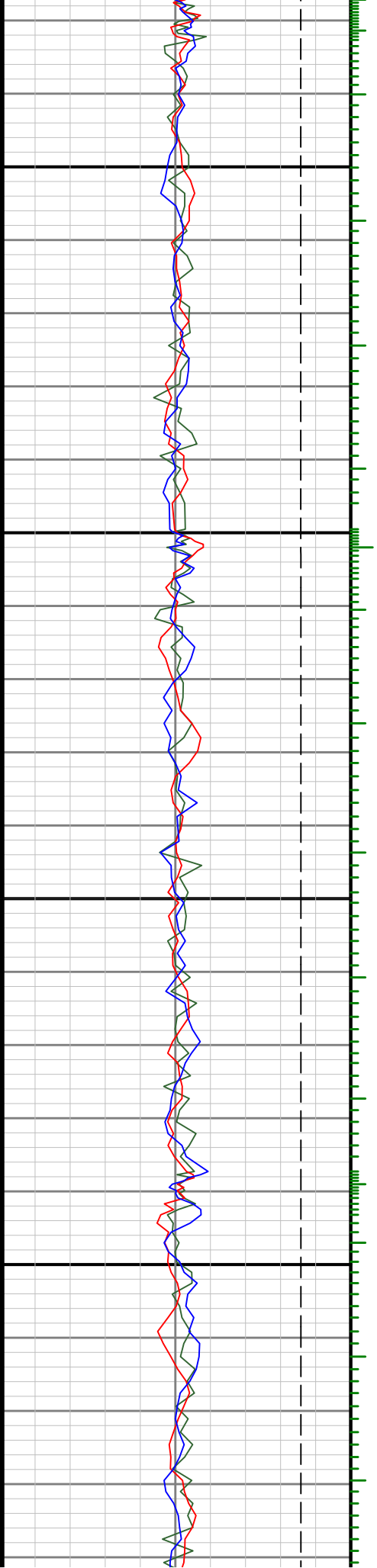


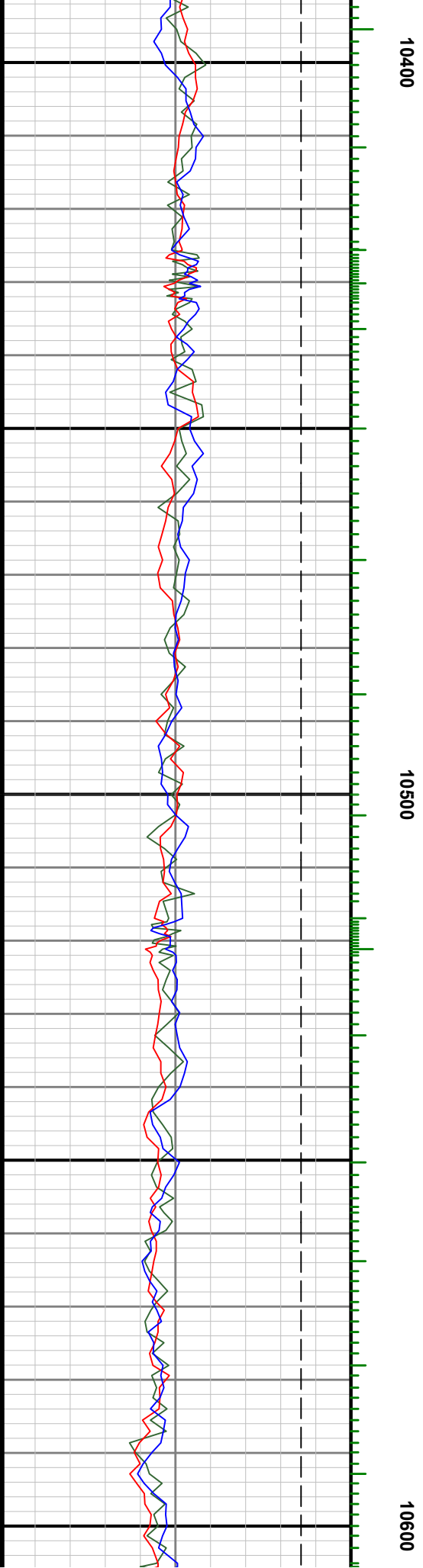
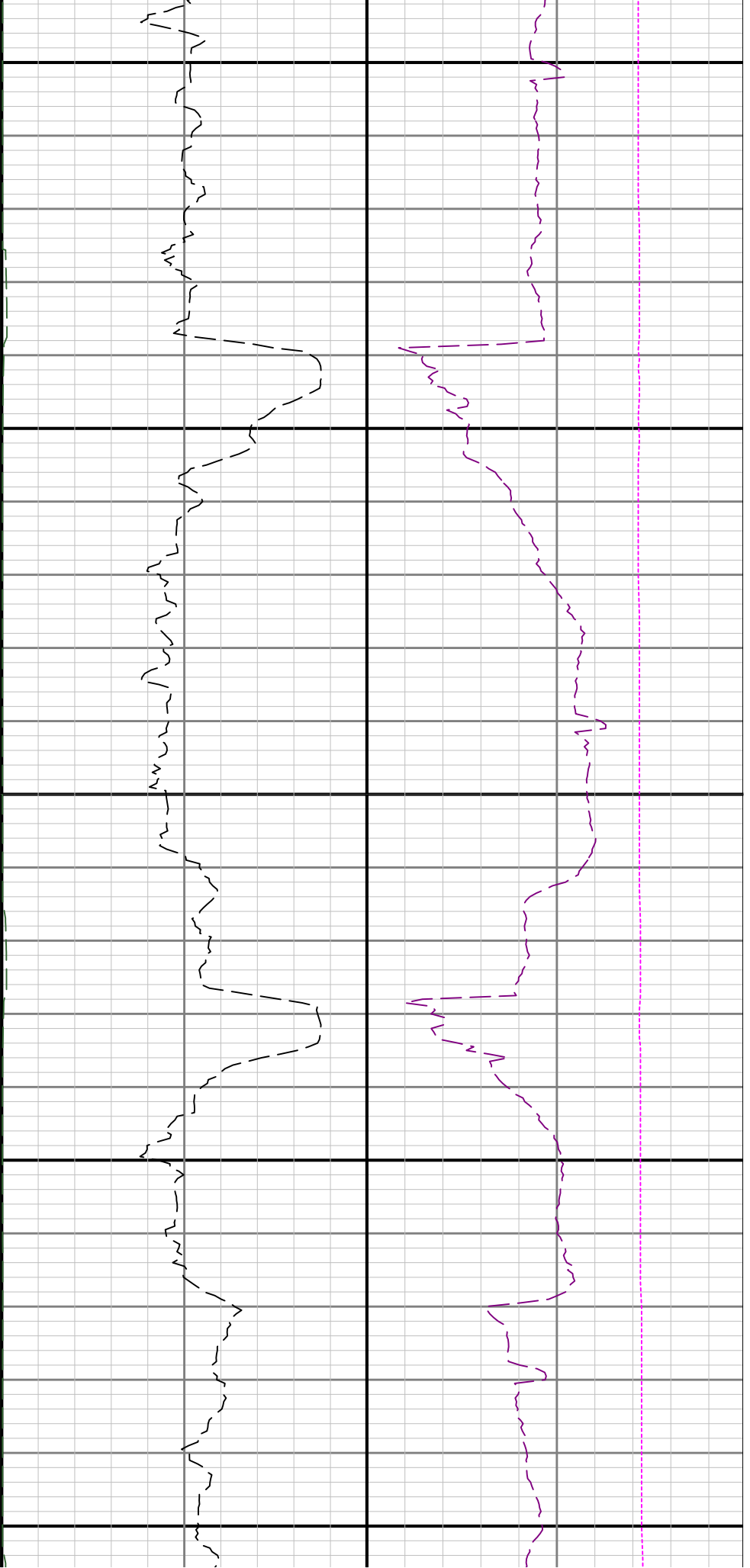


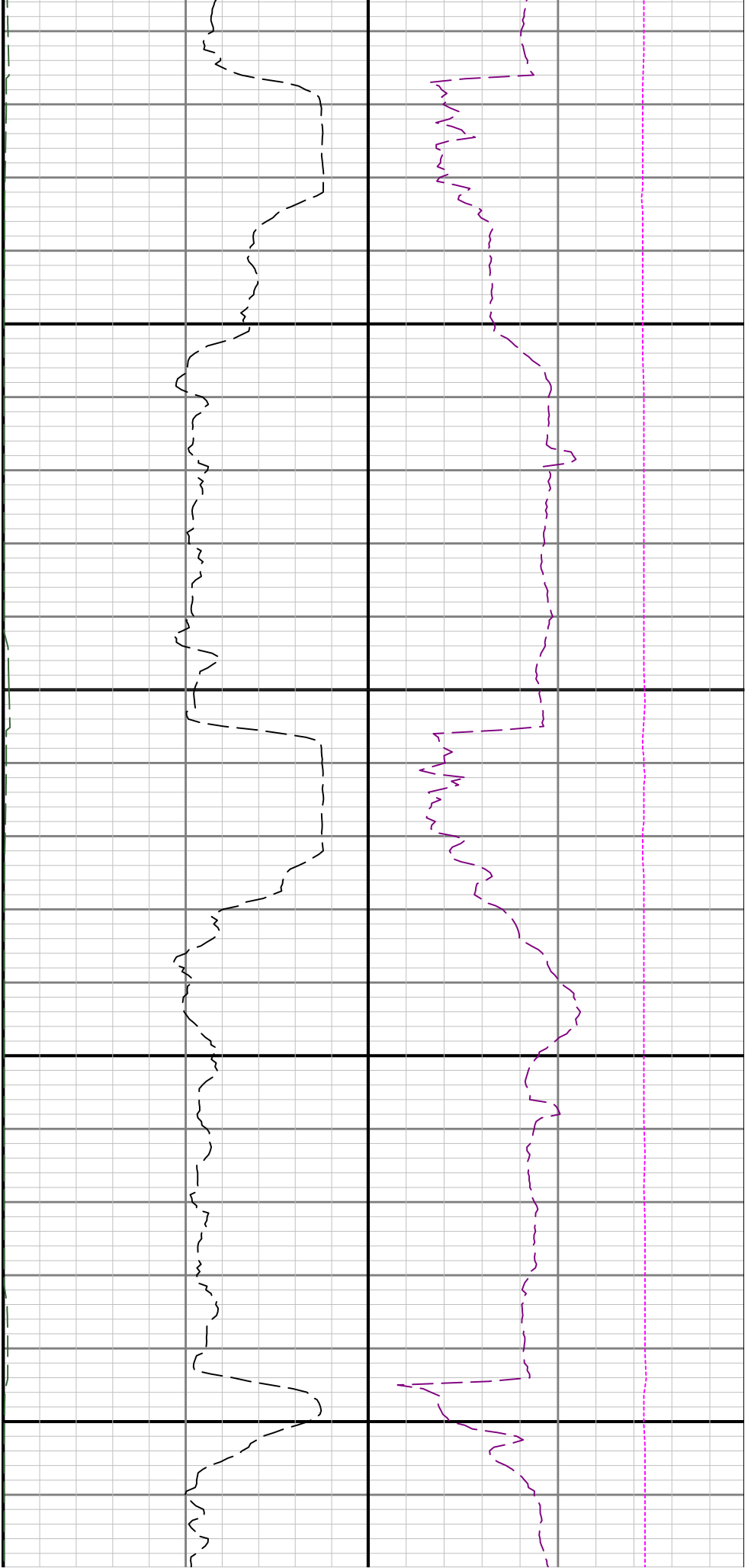


10200

10300

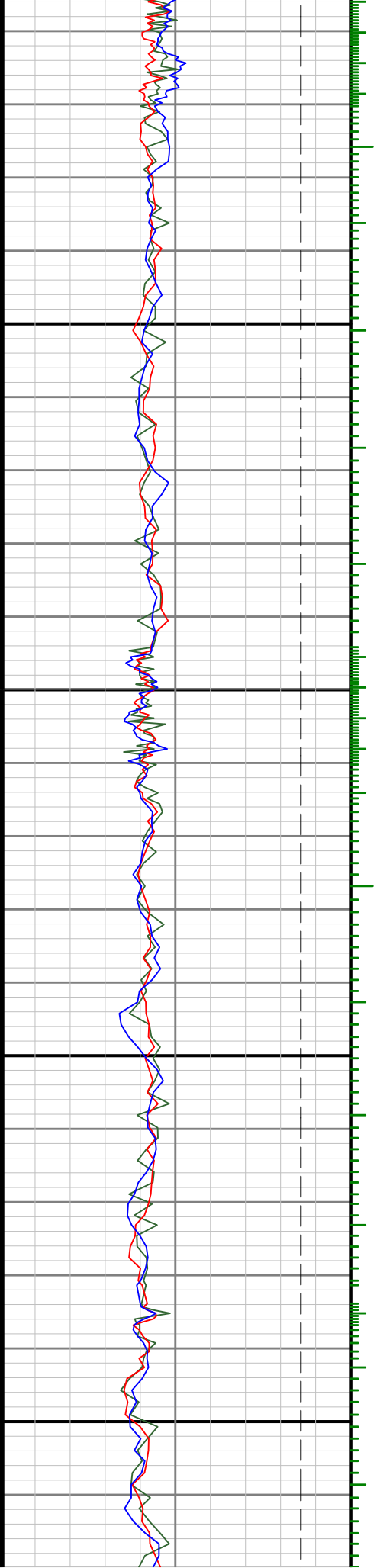


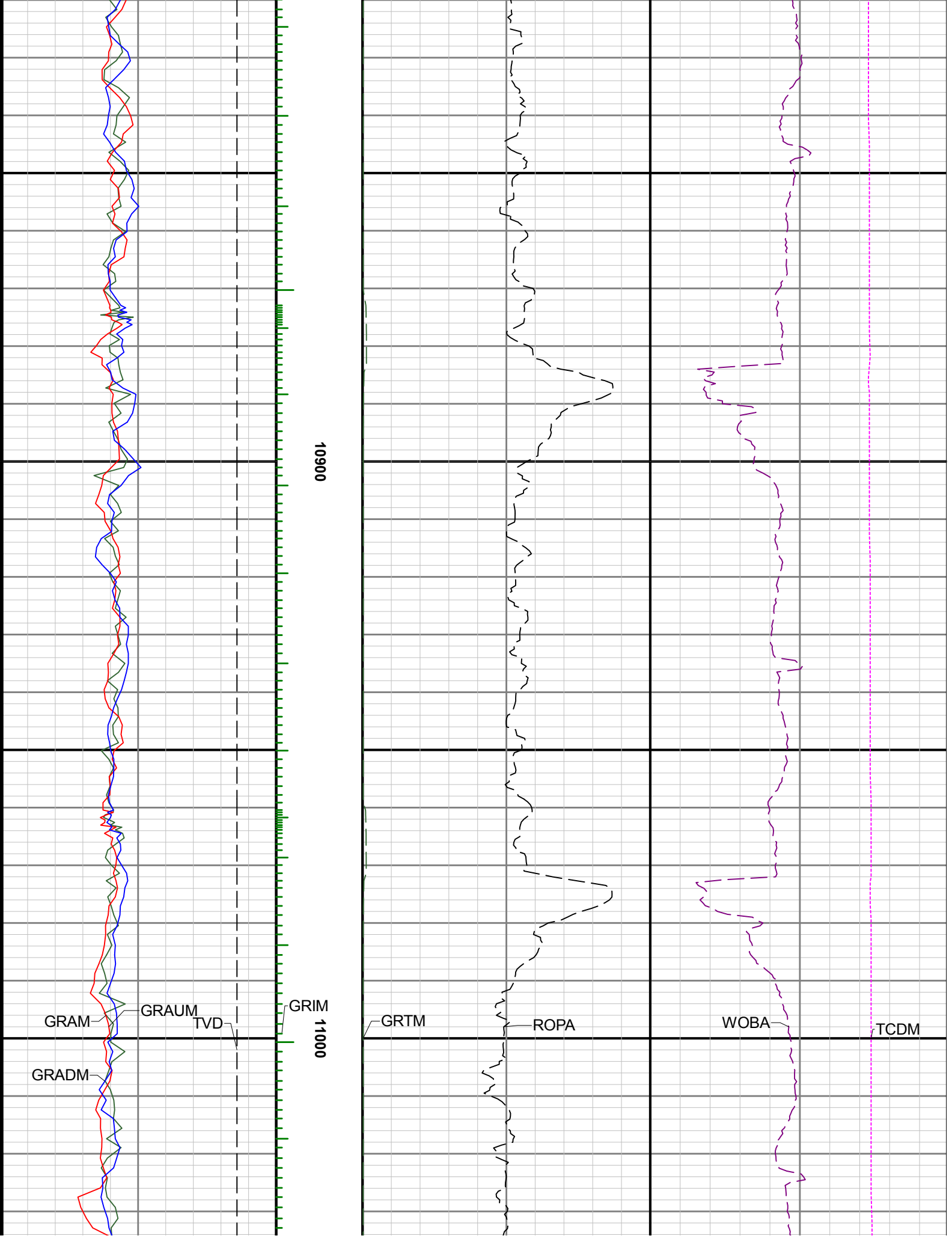


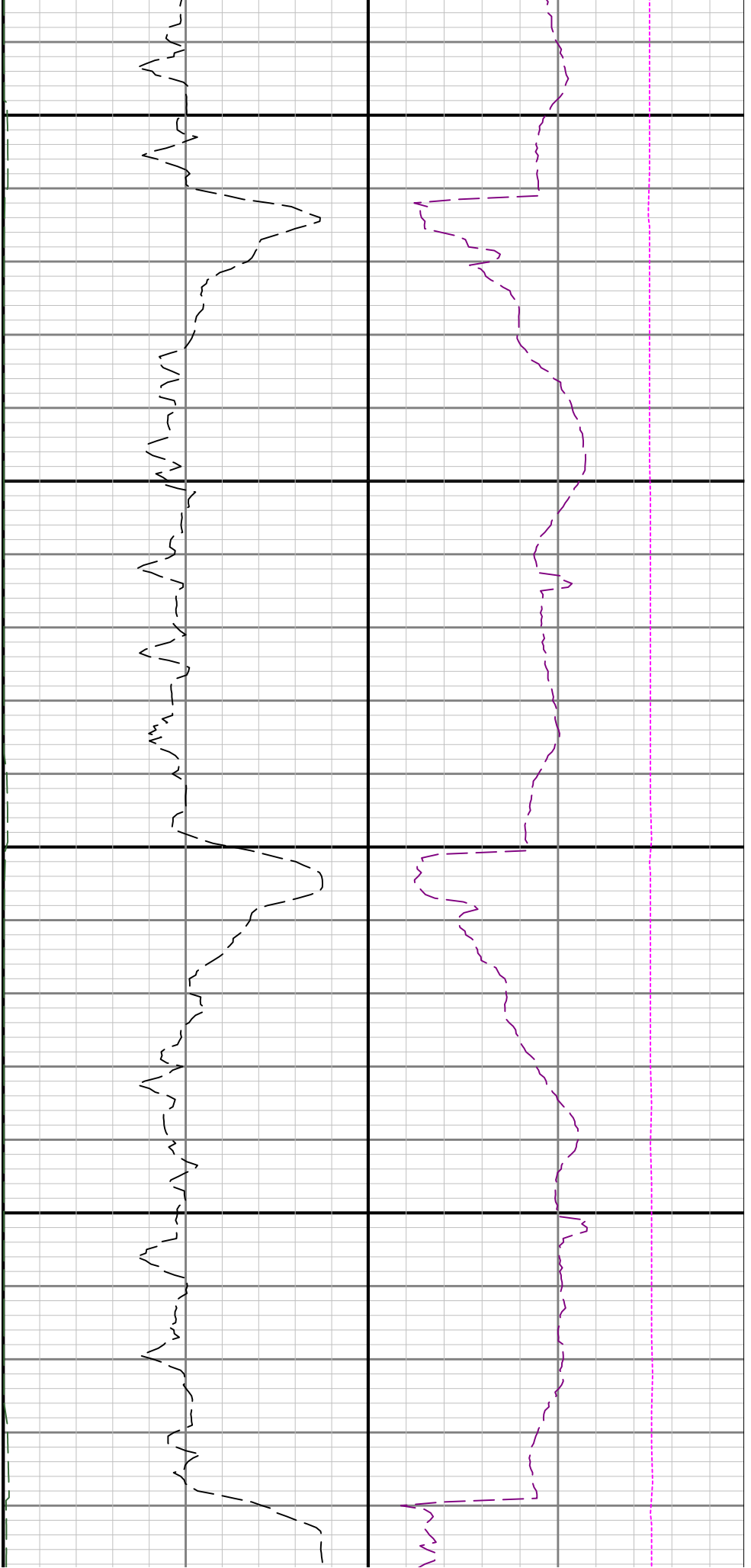


10700

10800

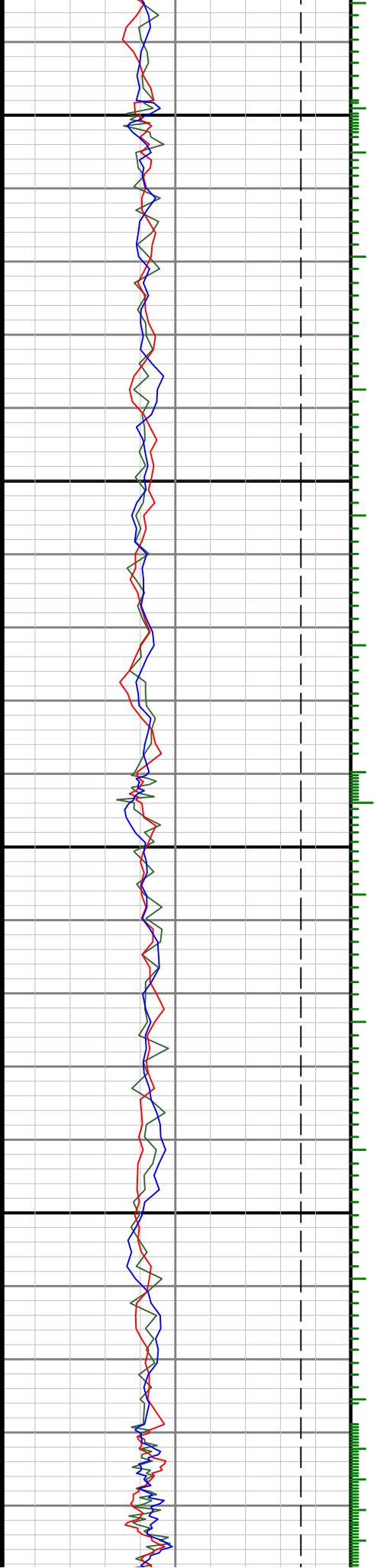


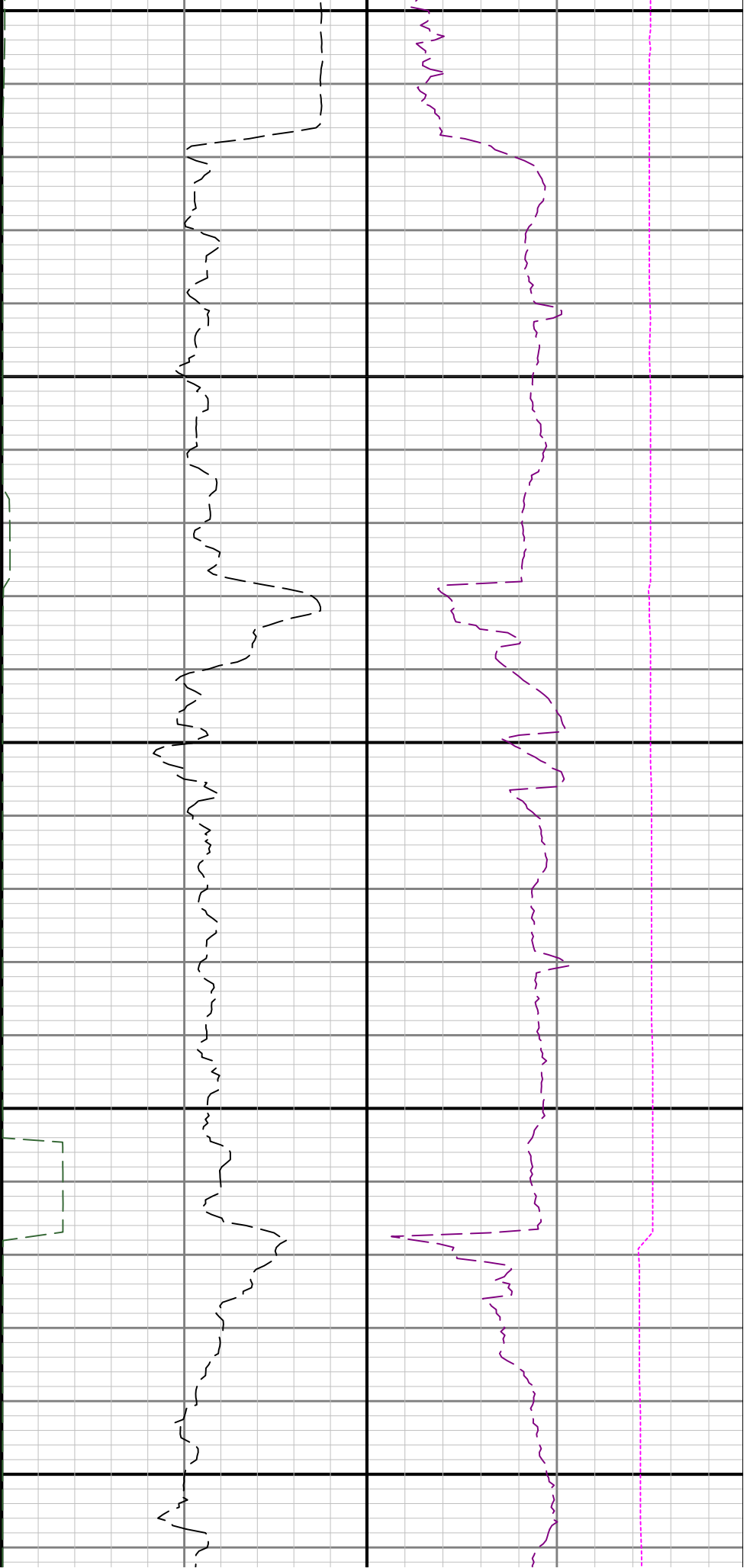




11100

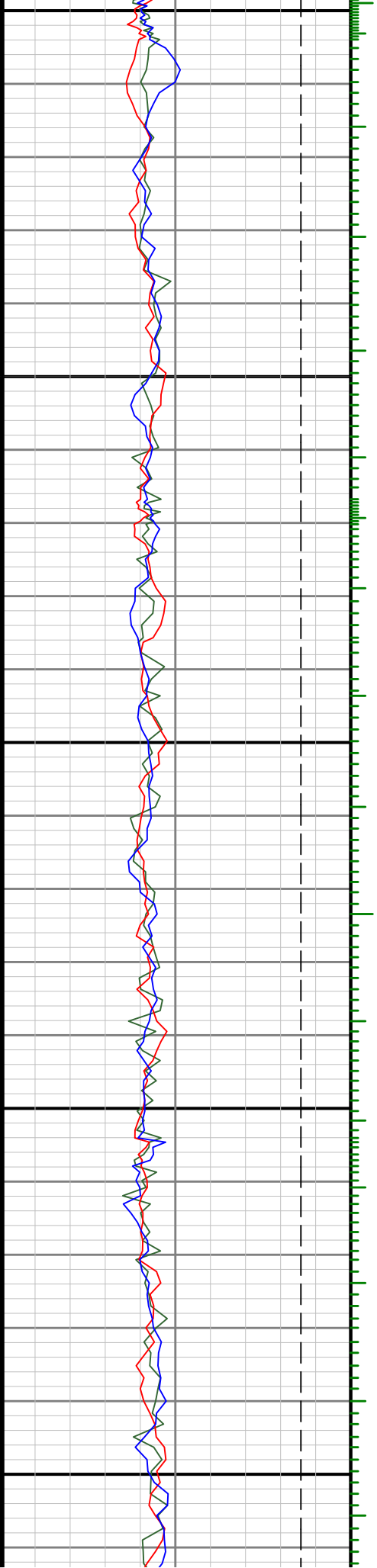
11200

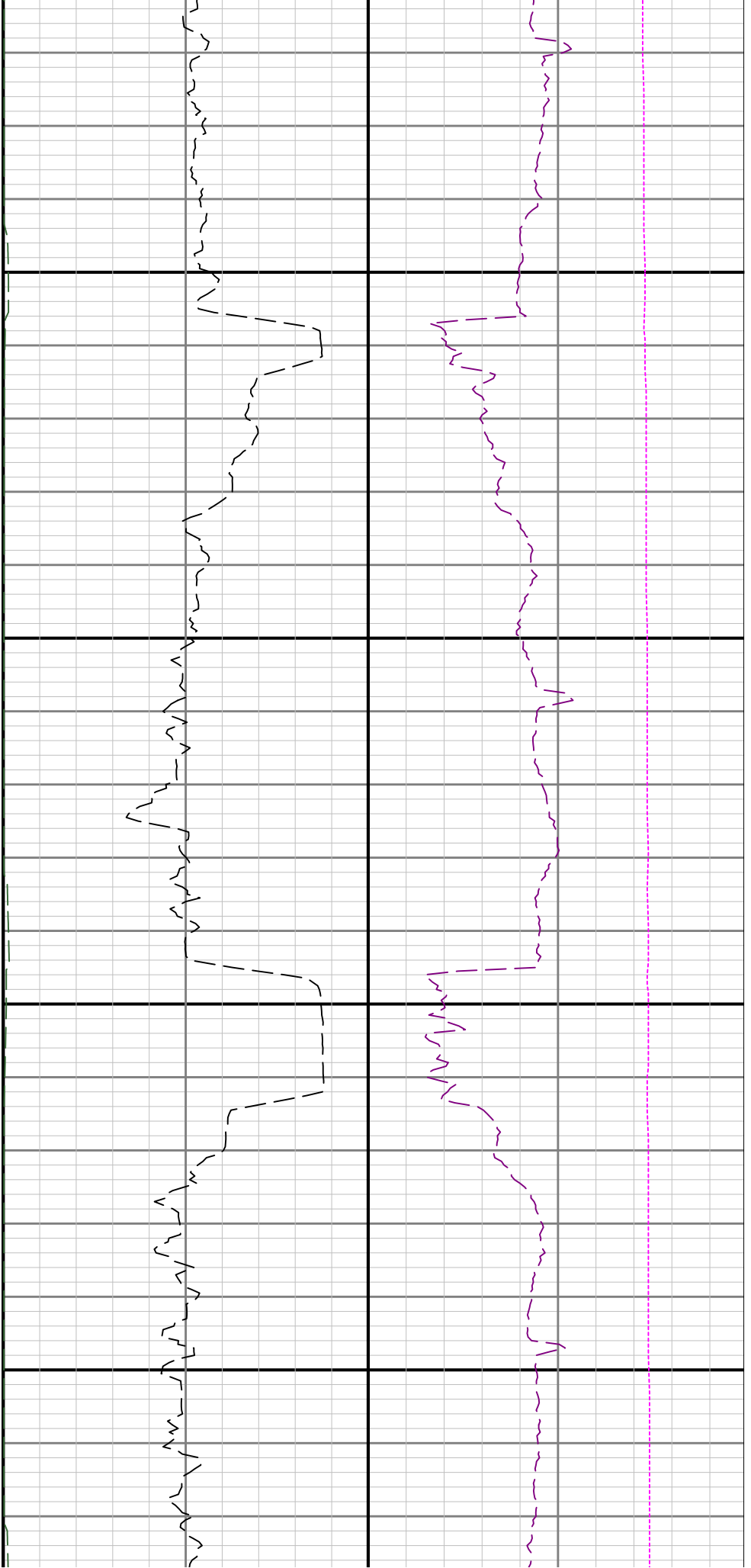




11300

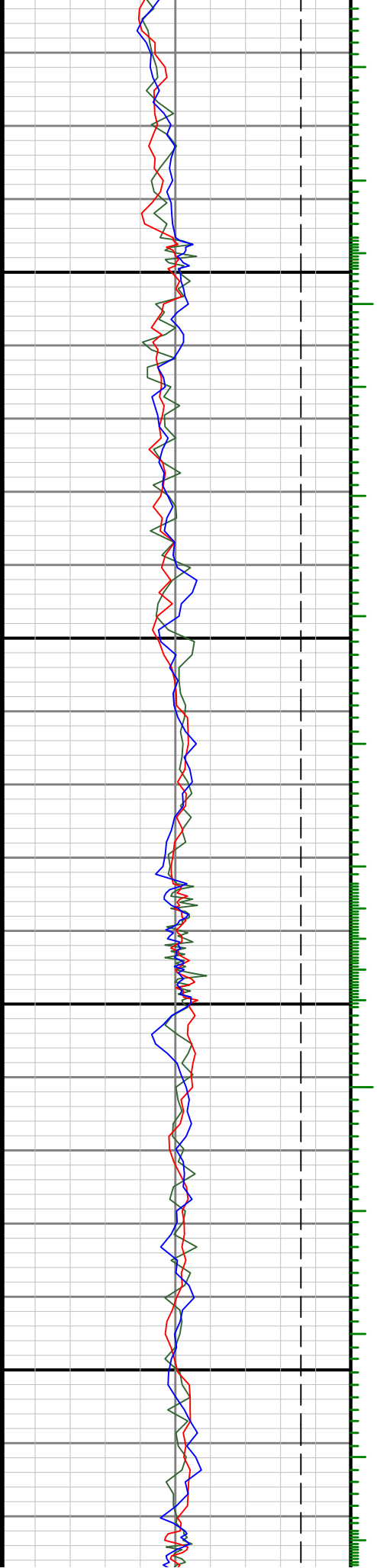
11400

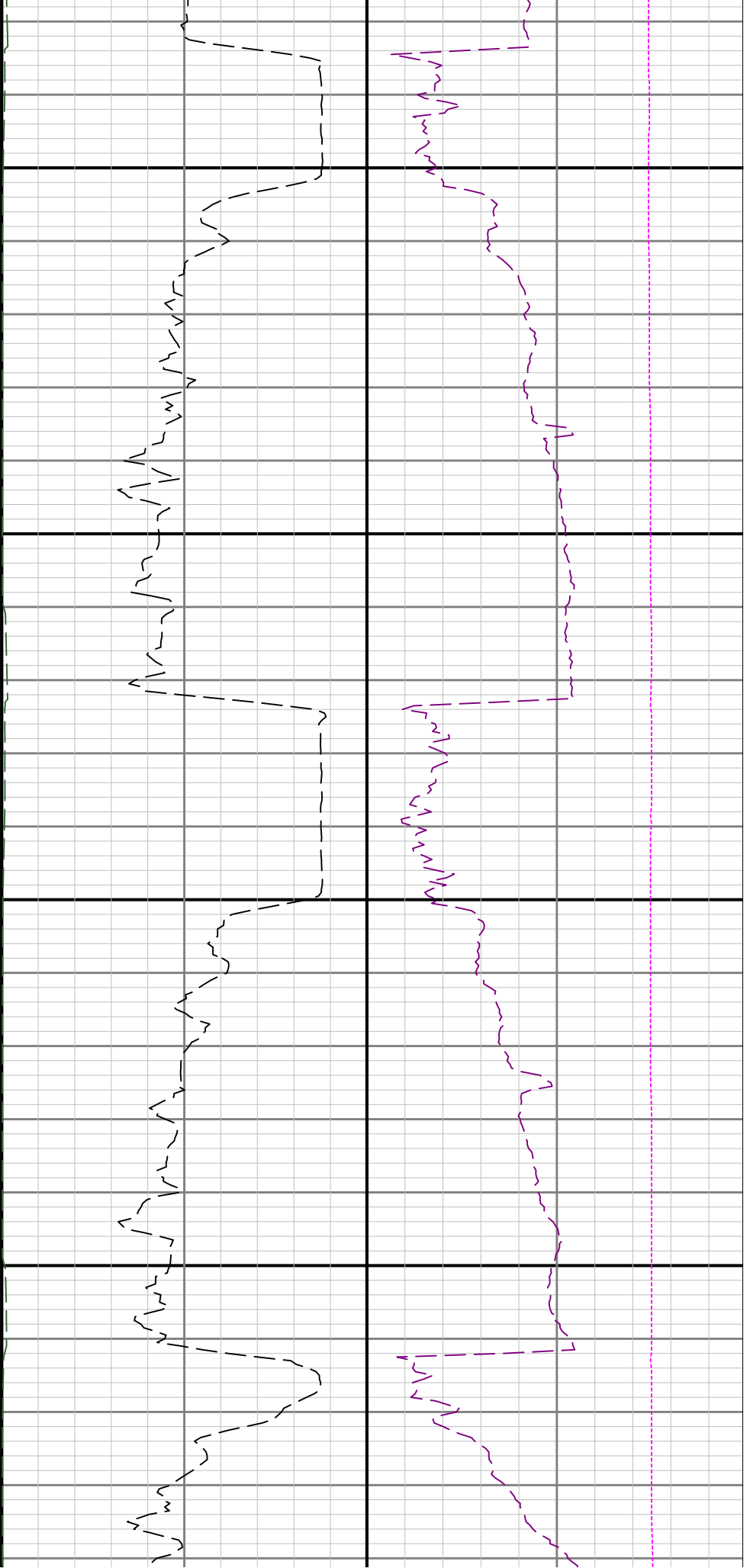




11500

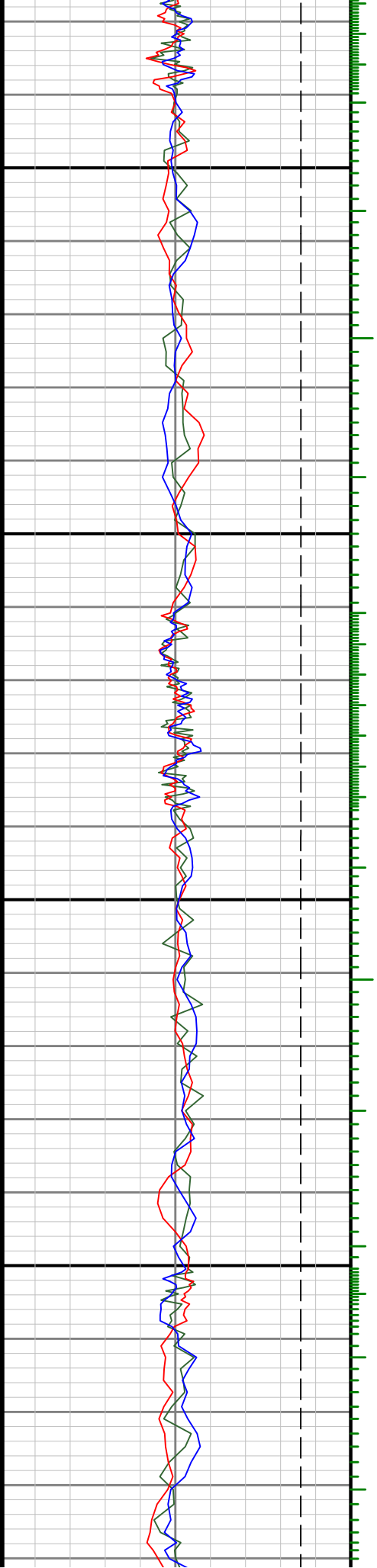
11600

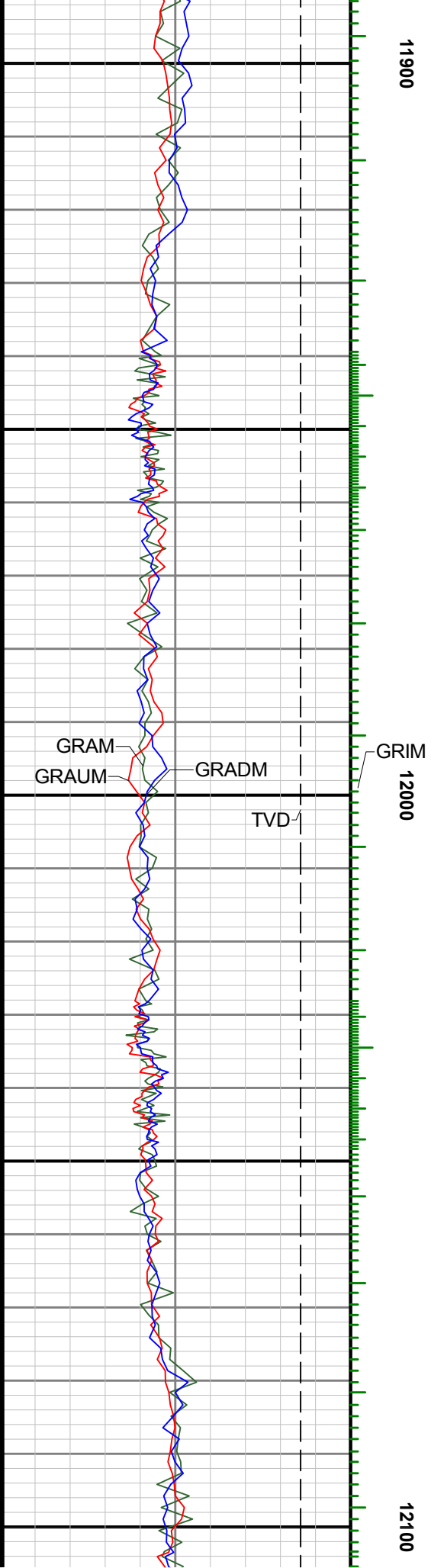
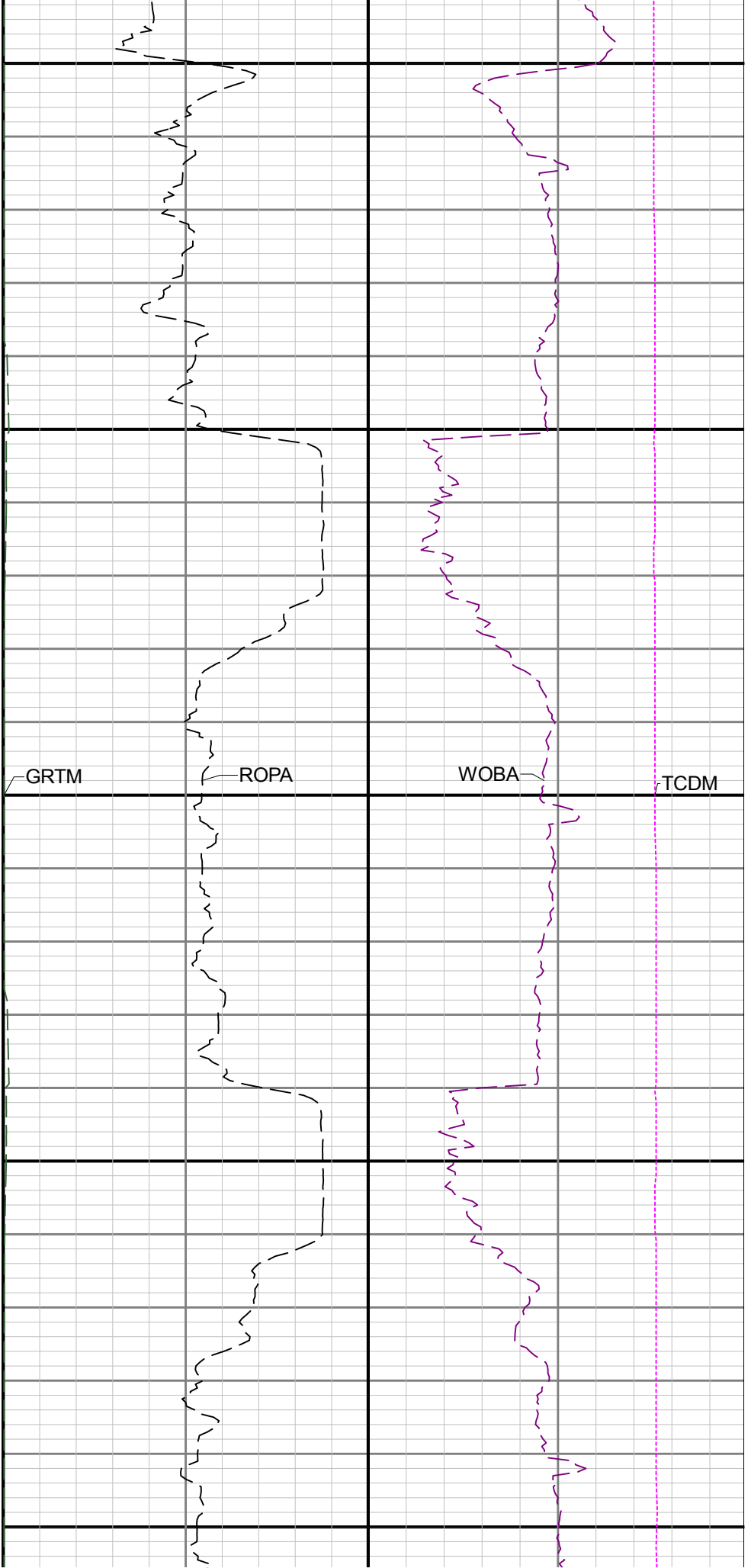


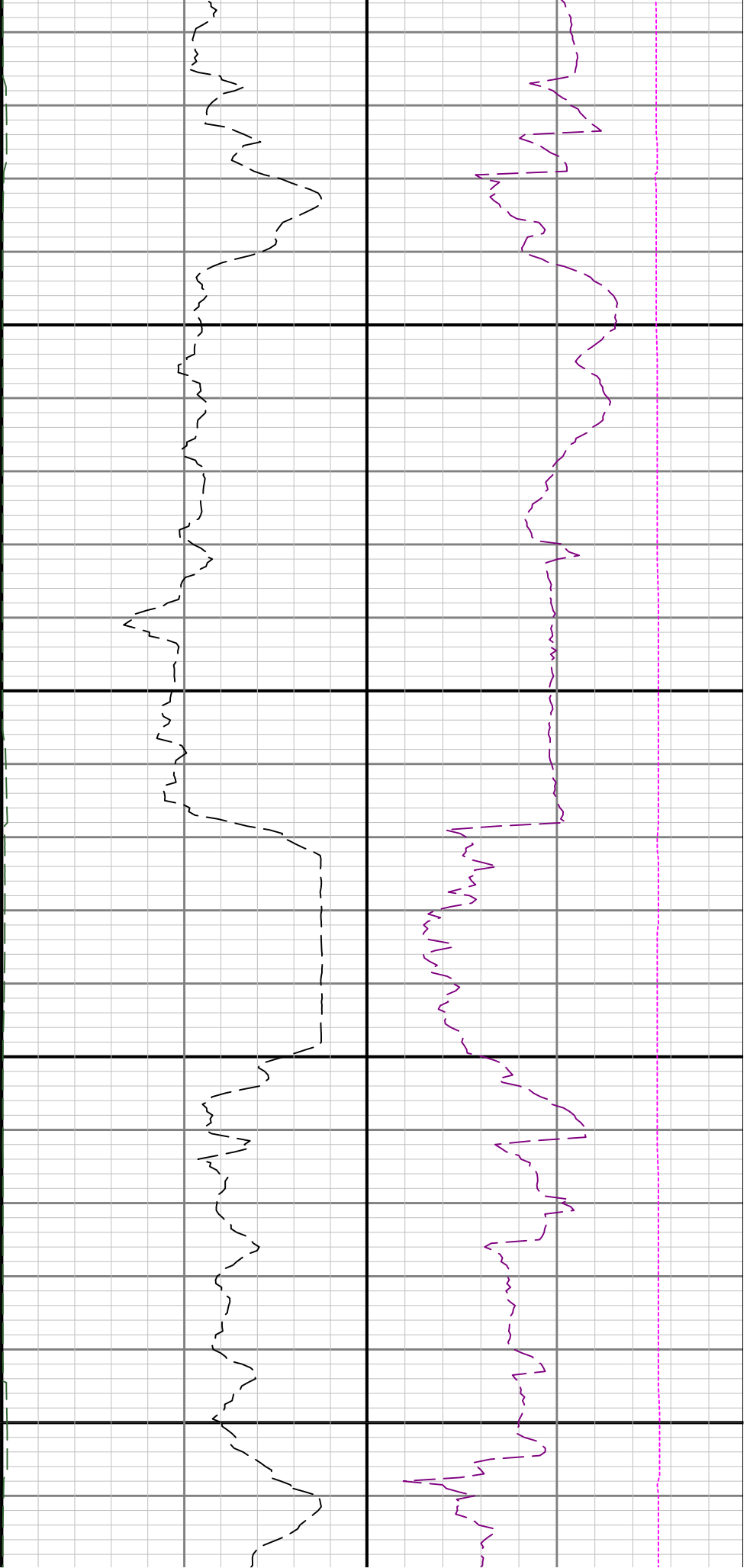


11700

11800

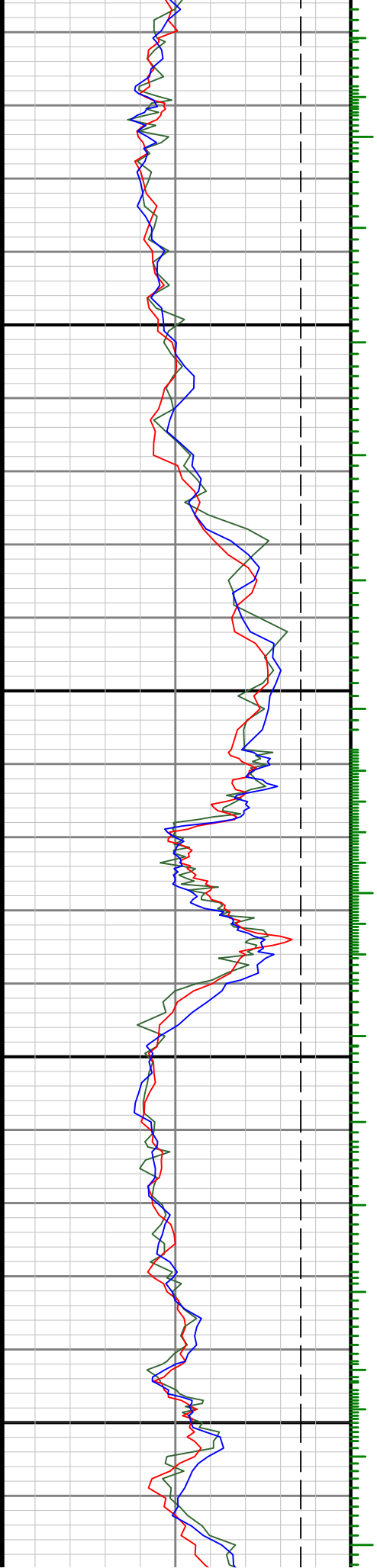


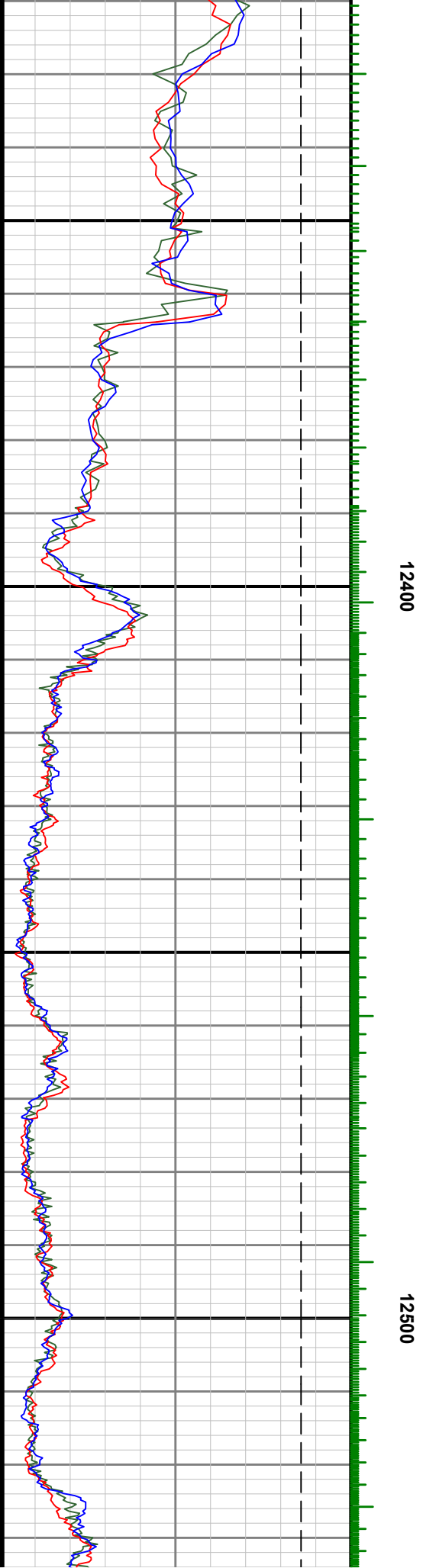
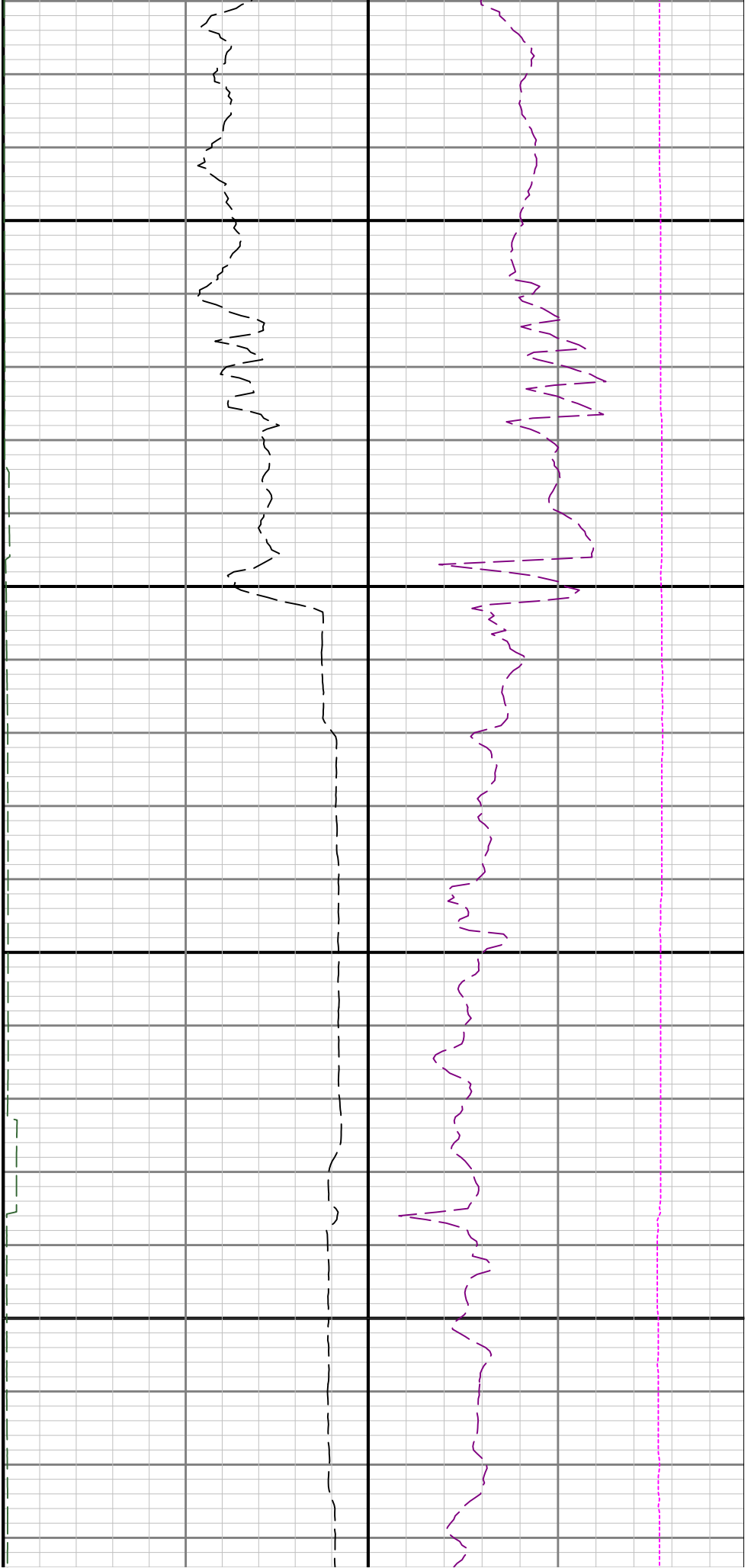


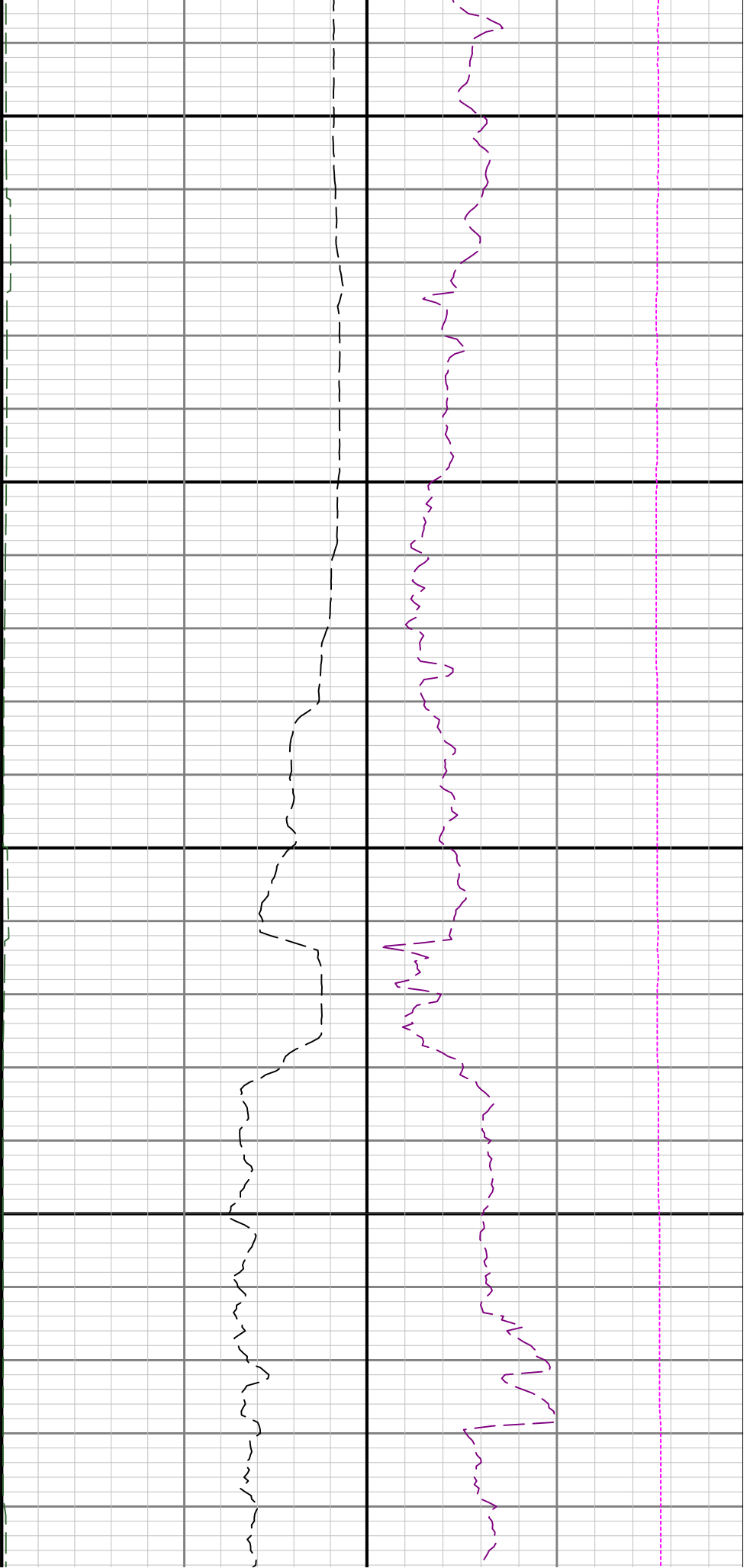


12200

12300

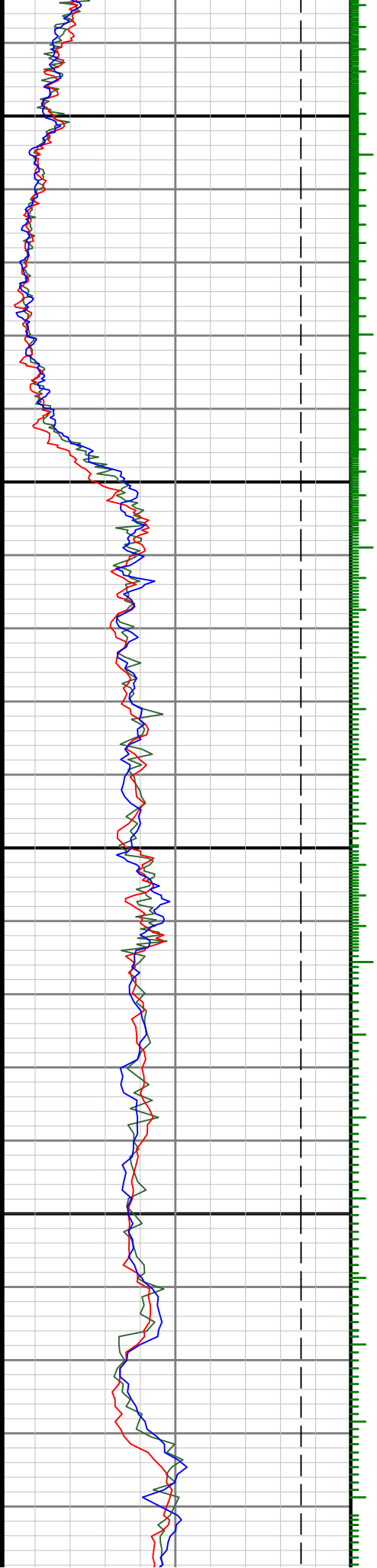


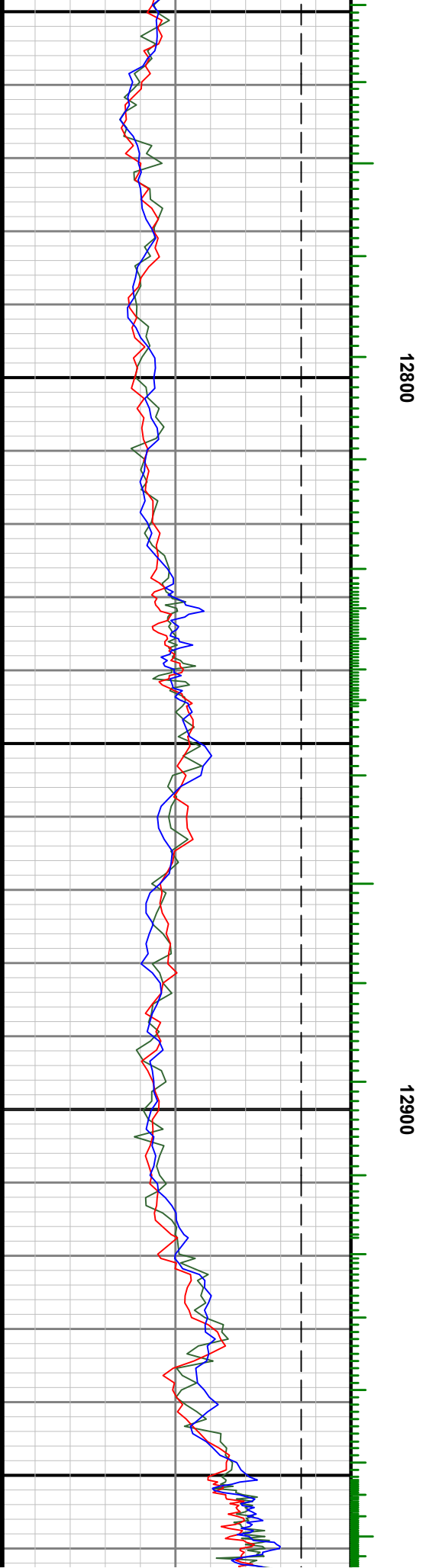


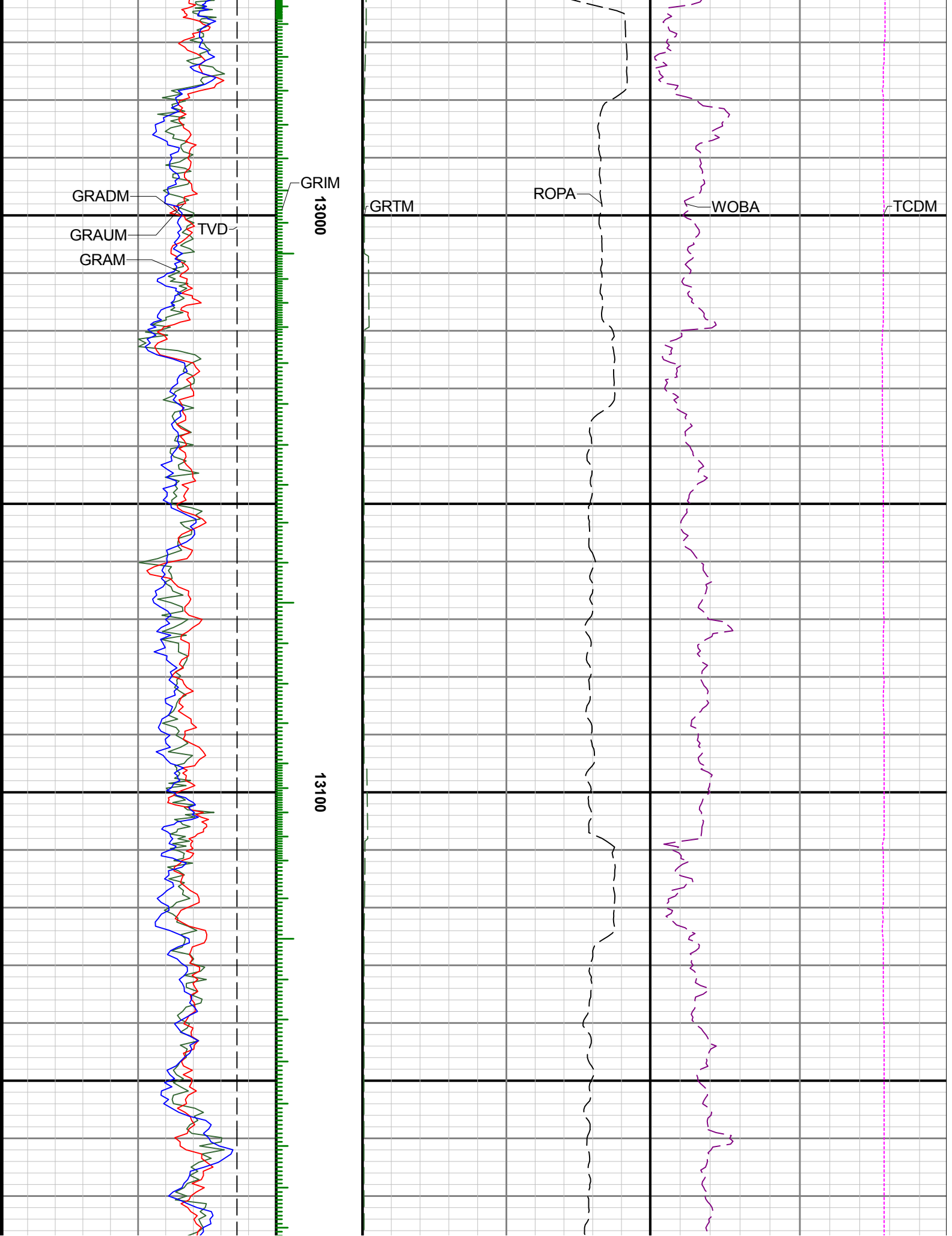


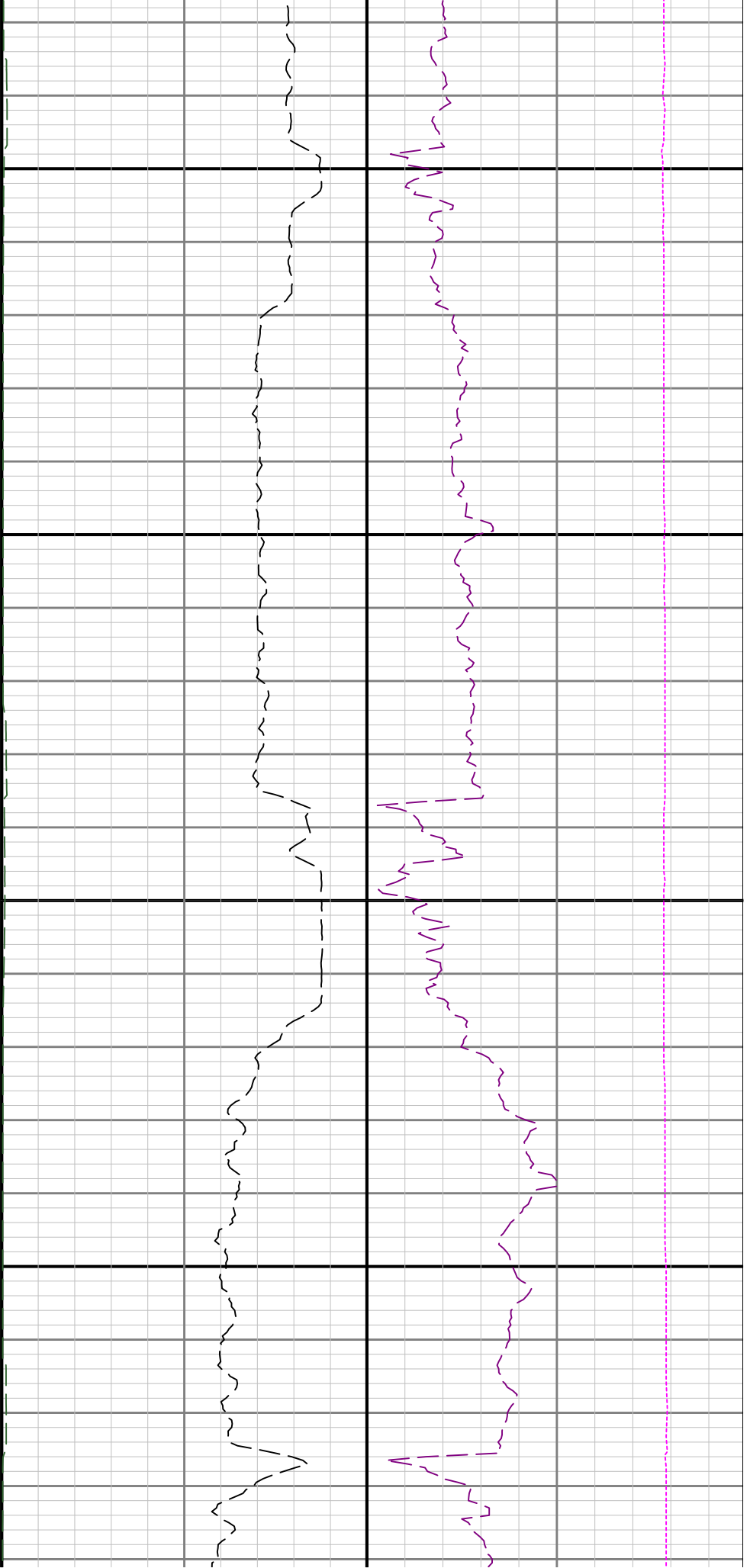
12600

12700



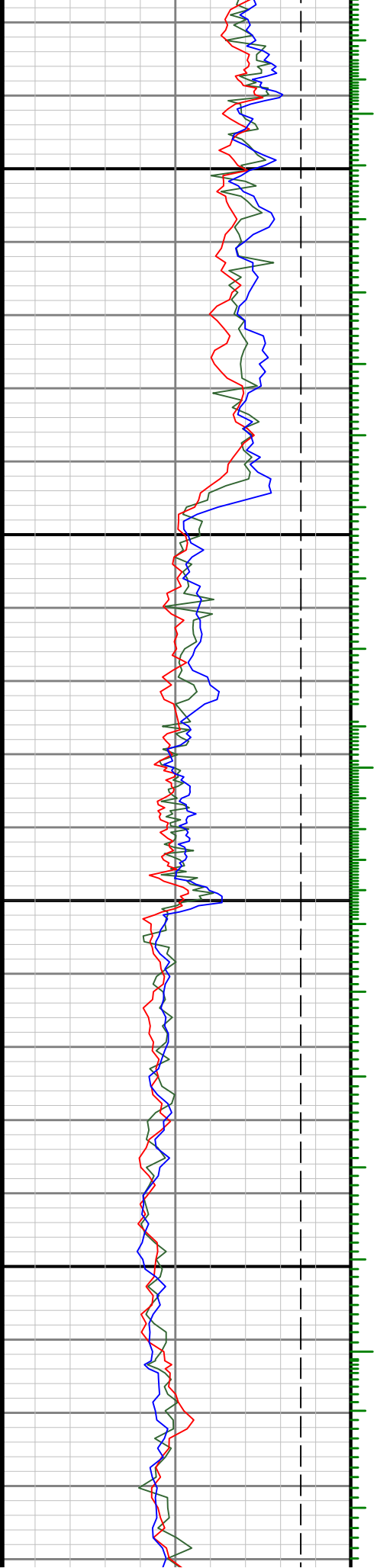


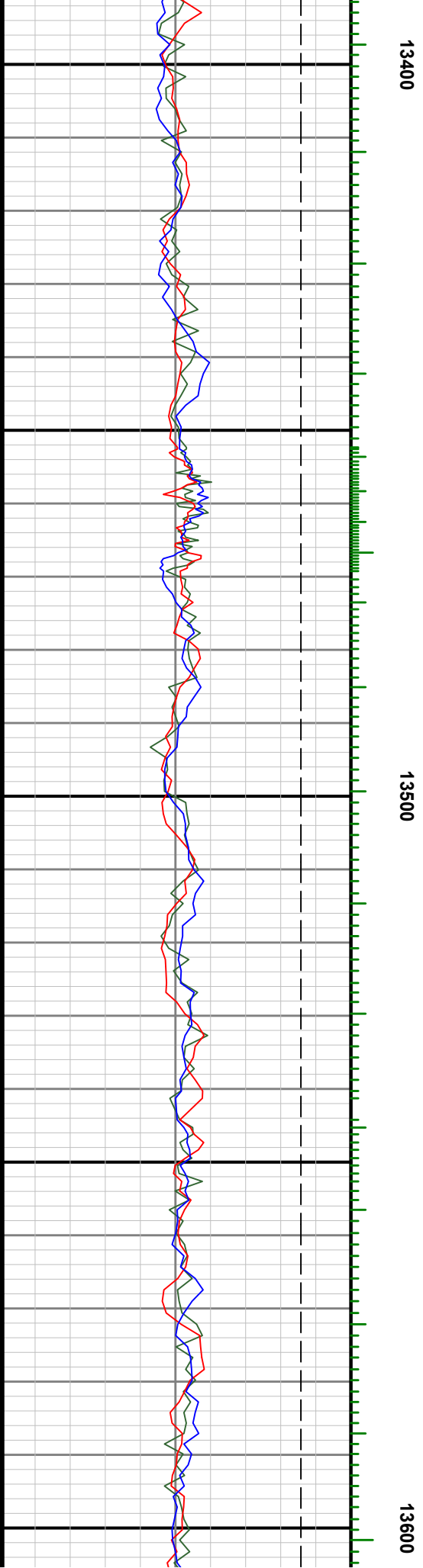
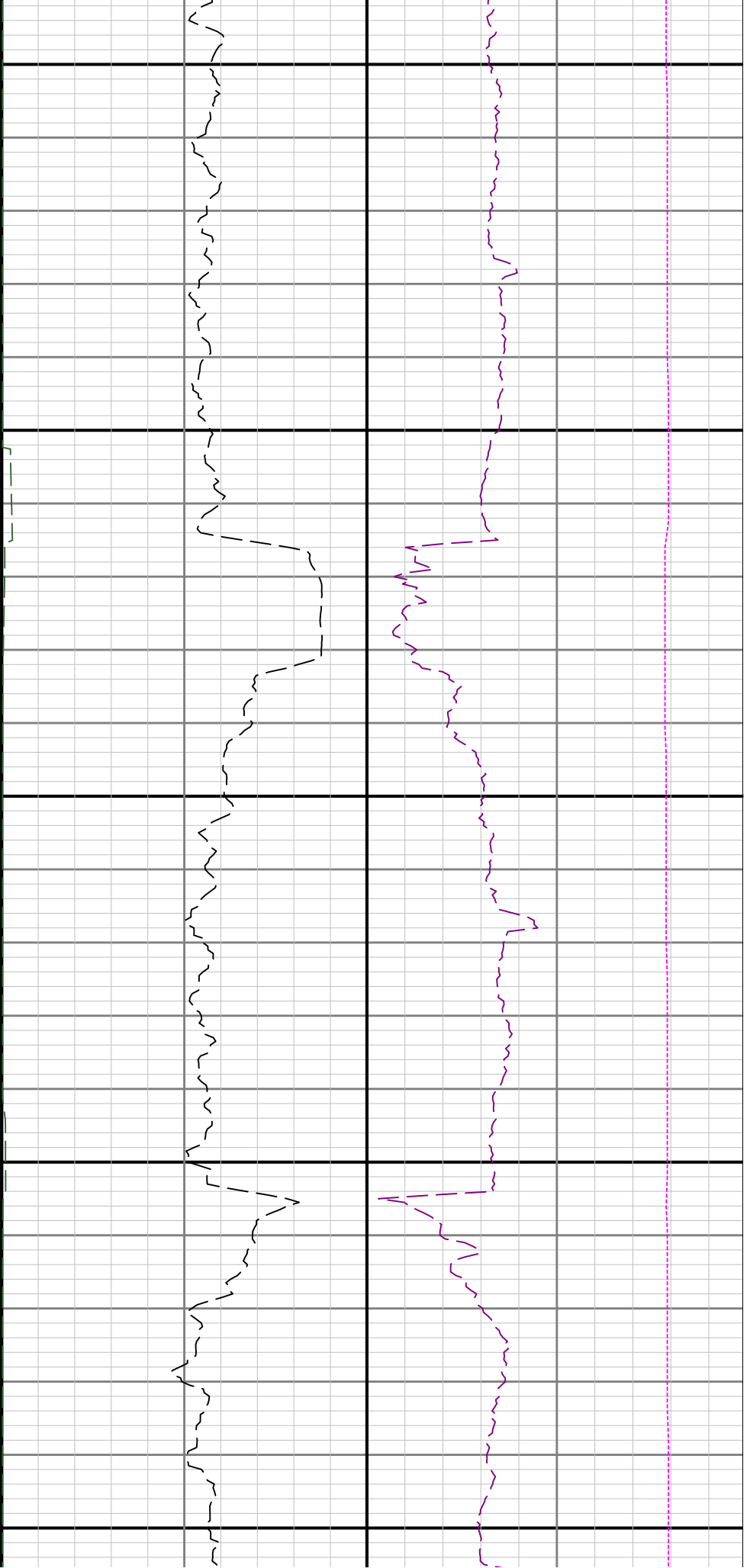


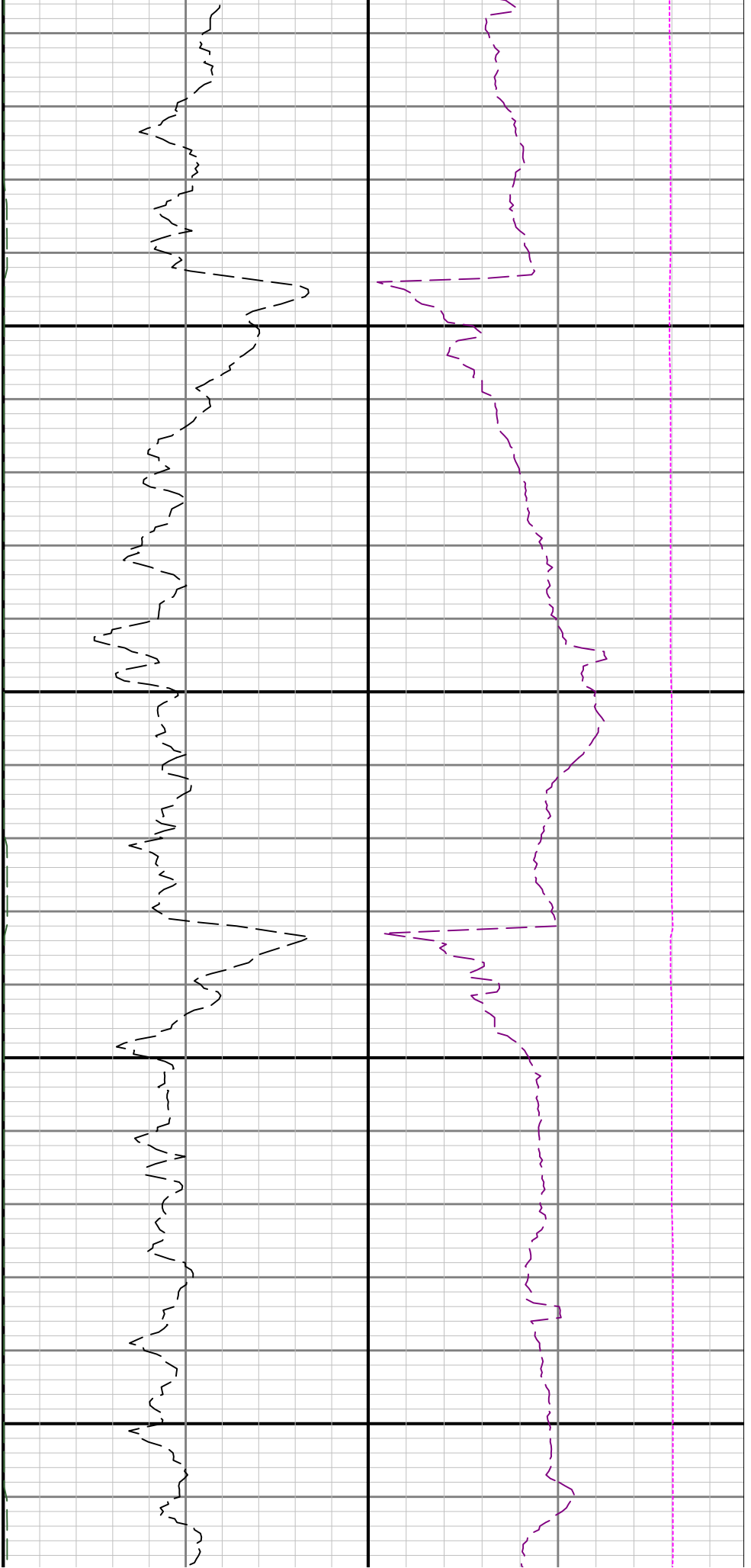


13200

13300

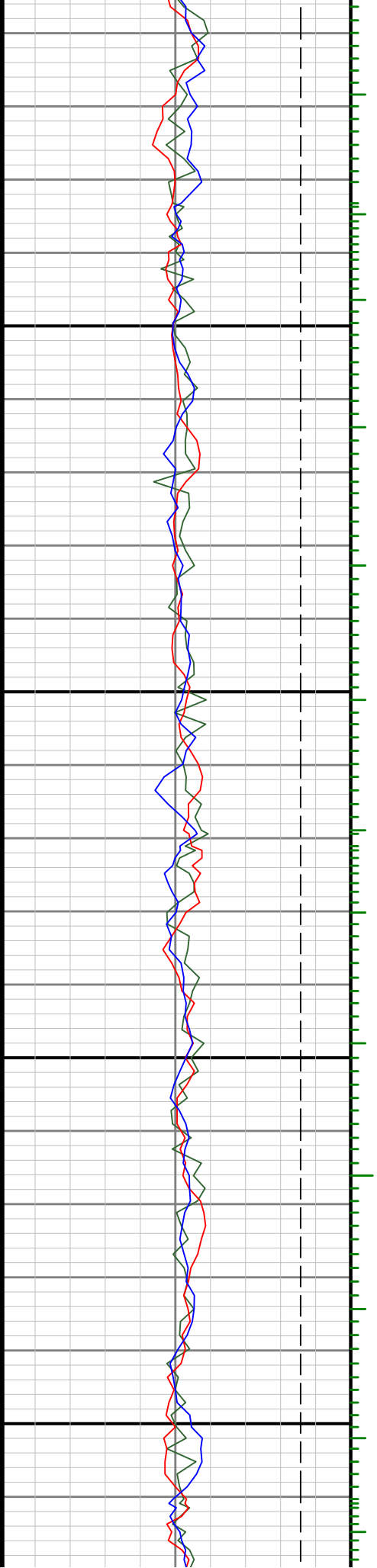


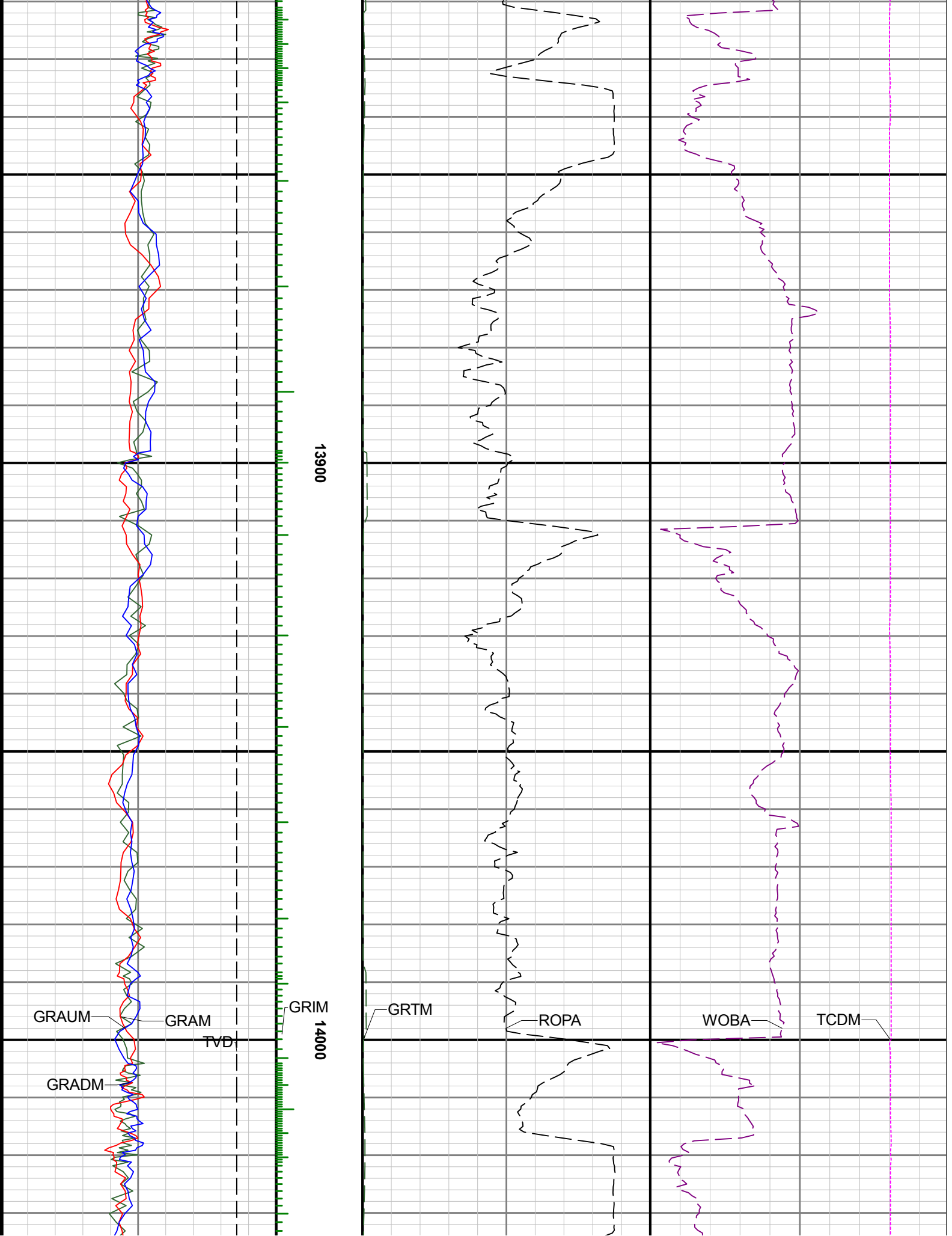




13700

13800

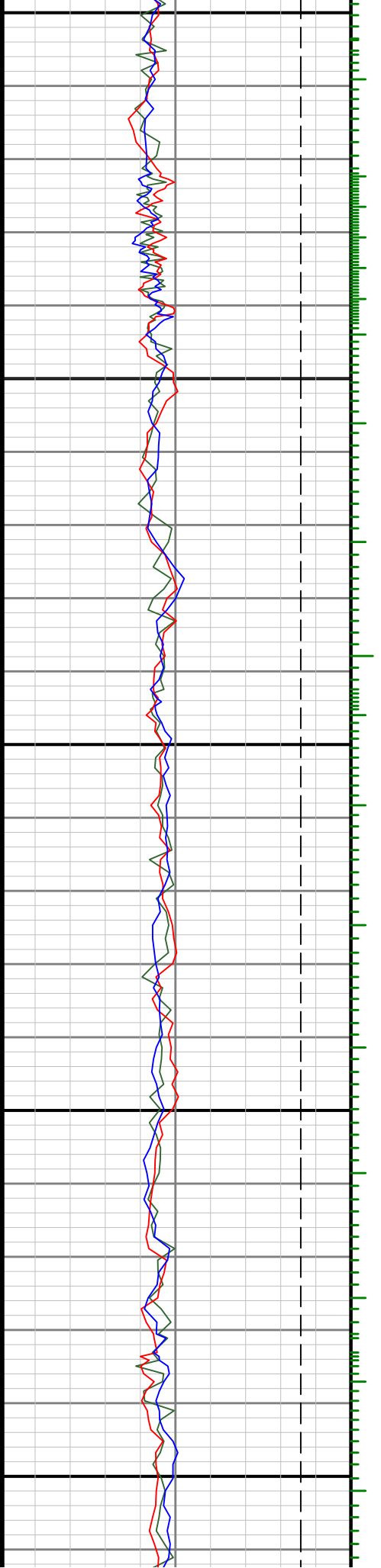


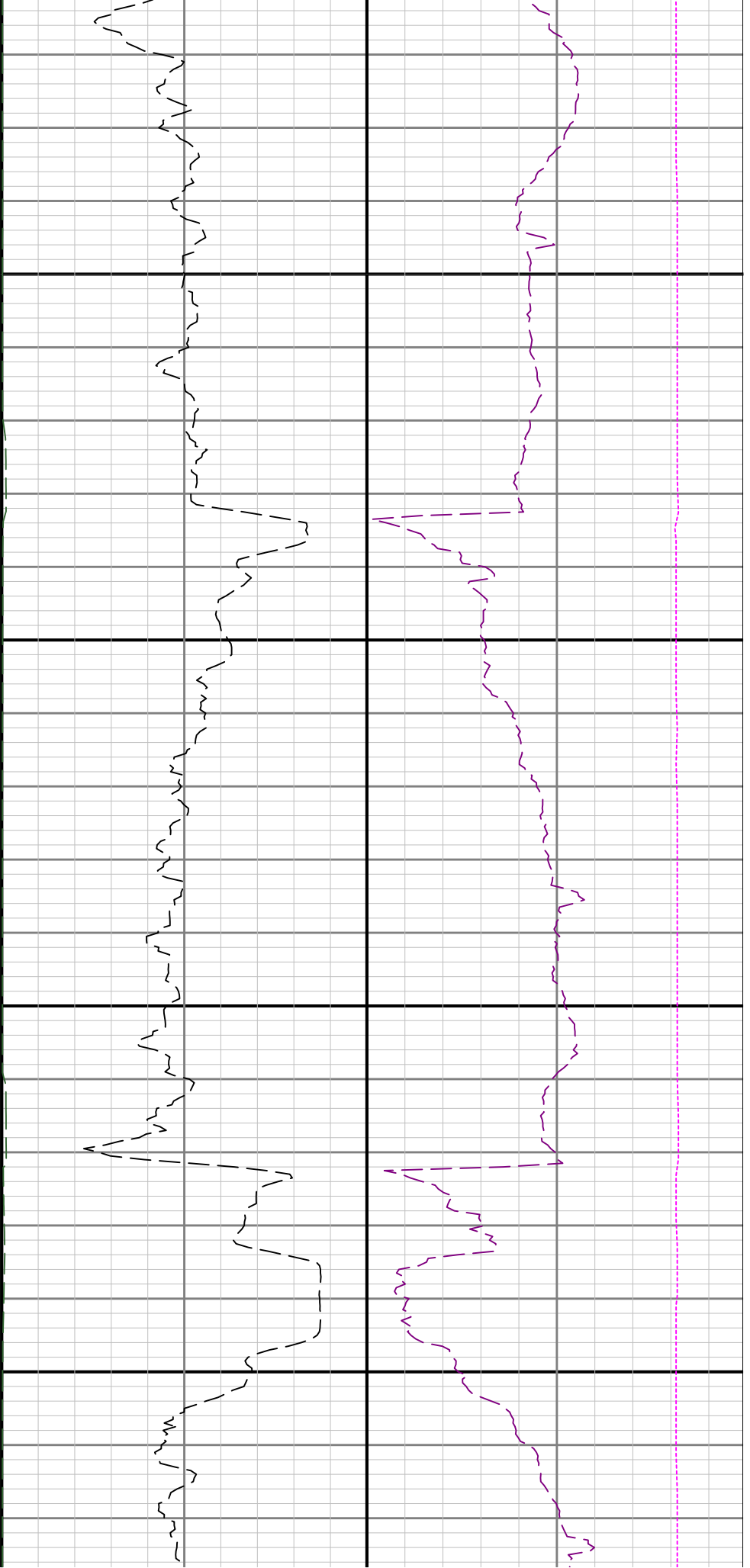




14300

14400





14500

14600

