



Natural Formation Evaluation
Gamma Ray

Realtime Log

Scale:

Company: Anadarko

Well: Sekich State 9C-17HZ

Field: Weld County (Kerr McGee)

County: Weld State: Colorado

1:240

MEASURED DEPTH

Status: FINAL PRINT

Surface Location:

Latitude: 40° 13' 28.715" N

Longitude: 104° 56' 25.400" W

Other Services:

DIR VSS

API Number: 05123391220000

Section: 18

TWN: 3N

Range: 67W

Permanent Datum (P.D.):

Mean Sea Level

Elevation: 0.00 ft.

Elevations:

N/A

Log Measured From:

Rig Floor

4880.00 ft.

Above P.D.

KB:

DF:

GL:

4880.00 ft.

Depth Reference:

Drillers Depth

GL:

-26.00 ft.

Interval Logged

Dates

Magnetic Field Reference

Top: 6500 ft. Date From: 07/Apr/14 Date To: 02/May/14 Dip Angle: 66.89° Azl Reference North: True

Bottom: 16785 ft. Date To: 06/Apr/14 Spud Date: 06/Apr/14 Field Strength: 52597.0 nT North Correction: 8.57°

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
13.500 in.	Surface	1246 ft.	9.600 in.	36.00 lb/ft	Surface	1235 ft.
8.750 in.	1246 ft.	7650 ft.	7.000 in.	26.00 lb/ft	Surface	7631 ft.
6.125 in.	7650 ft.	16785 ft.				

Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Based	Surface	7650 ft.	13.500 in.	Surface	0.0° / 0.0°	0.3° / 209.9°
Oil Based	7650 ft.	16785 ft.	8.750 in.	Vert/Curve	0.3° / 209.9°	85.7° / 91.9°
			6.125 in.	Lateral	85.7° / 91.9°	89.8° / 87.3°
					/	/
					/	/
					/	/

Acquisition System

Software Version

Other

Advantage	2.20U4	Rig: / Contractor:	H&P 307	/ Helmerich & Payne Drilling Co
PATS	6.4.1.34	Job No:	6247813	
		District / Unit:	Rocky Mountains	/ D & E

INTEQ does not guarantee the accuracy or correctness of interpretations provided in or from this log. Since all interpretations are opinions based on measurements, INTEQ shall under no circumstances be responsible for consequential damages or any other loss, costs, damages or expenses incurred or sustained in connection with the use of any such interpretations. INTEQ disclaims all expressed and implied warranties related to this service. INTEQ's liabilities and obligations shall be governed by INTEQ's Standard Terms and Conditions.

Log Run Summary

LWD Run No.	BHA Run No.	Bit Run No.	Bit Size (in.)	Bit Type	Bit Gauge Length (in.)	Assembly Type	Logged Interval		Bit Depth Interval		Date / Time		Circ. Time (hrs.)
							Top (ft.)	Bottom (ft.)	From (ft.)	To (ft.)	Start	End	
1	1	1	8.750	PDC		Mud Motor	6500	7591	1281	7650	07/Apr/2014 15:41	08/Apr/2014 09:58	41
2	2	2	6.125	PDC		Mud Motor	7591	11980	7650	12051	25/Apr/2014 06:59	26/Apr/2014 13:52	31
3	3	3	6.125	PDC		Mud Motor	11980	13159	12051	13230	27/Apr/2014 08:29	27/Apr/2014 20:13	12
4	4	4	6.125	PDC		Mud Motor	13159	14426	13230	14494	28/Apr/2014 07:55	28/Apr/2015 19:50	13
5	5	5	6.125	PDC		Mud Motor	14426	16716	14494	16785	29/Apr/2014 19:31	01/May/2014 09:42	40

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite

Andrew King	06/Apr/14	01/May/14	Nicholas Roosen	29/Apr/14	01/May/14	John Nguyen	06/Apr/14	26/Apr/14
Hans Cary	06/Apr/14	01/May/14	Bill Herbers	06/Apr/14	01/May/14	Scott Sanford	24/Apr/14	01/May/14

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent, 0.5 ft Avg.	API
GRTX	Gamma Ray Time Since Drilled	Min.
GRIX	Gamma Ray Density, Points	unitless
GRSI	Gamma Ray Slide Indicator	unitless
ROPA	Rate of Penetration, 3.0 Avg.	Ft./Hr.
TCDX	Downhole Temperature	Deg. F.
TVD	True Vertical Depth	Ft.
WOBA	Surface Weight on Bit, 1.0 ft. Avg.	K. lbs

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	11592525	Directional	62.13	6.750	3.250
1	SRIG	12722372	Gamma	58.76	6.750	3.250
2	DIR	12440860	Directional	66.40	4.750	2.750
2	SRIG	12578114	Gamma	71.40	4.750	2.750
3	DIR	12440860	Directional	66.35	4.750	2.750
3	SRIG	12578114	Gamma	71.35	4.750	2.750
4	DIR	12440860	Directional	66.35	4.750	2.750
4	SRIG	12578114	Gamma	71.35	4.750	2.750
5	DIR	12323368	Directional	72.50	4.750	2.750
5	SRIG	12578109	Gamma	69.12	4.750	2.750

Service and Tool Mnemonics

Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

Comments

<p>(1) Baker Hughes INTEQ run 1 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 3/4 bit and steerable assembly from 1246 to 7650 feet MD (1246 to 7206 feet TVD)</p> <p>(2) Baker Hughes INTEQ runs 2 through 5 utilized 4 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 6 1/8 bit and steerable assembly from 7650 to 16785 feet MD (7206 to 7176 feet TVD)</p> <p>(3) Depth measurements obtained from a depth control system not supplied or operated by Baker Hughes. Due to the of control by Baker Hughes logging engineers, depth calibrations, and measurements could not be independently verified.</p> <p>(4) A sliding indicator is shown to the right edge of track 1 as a heavy line.</p>

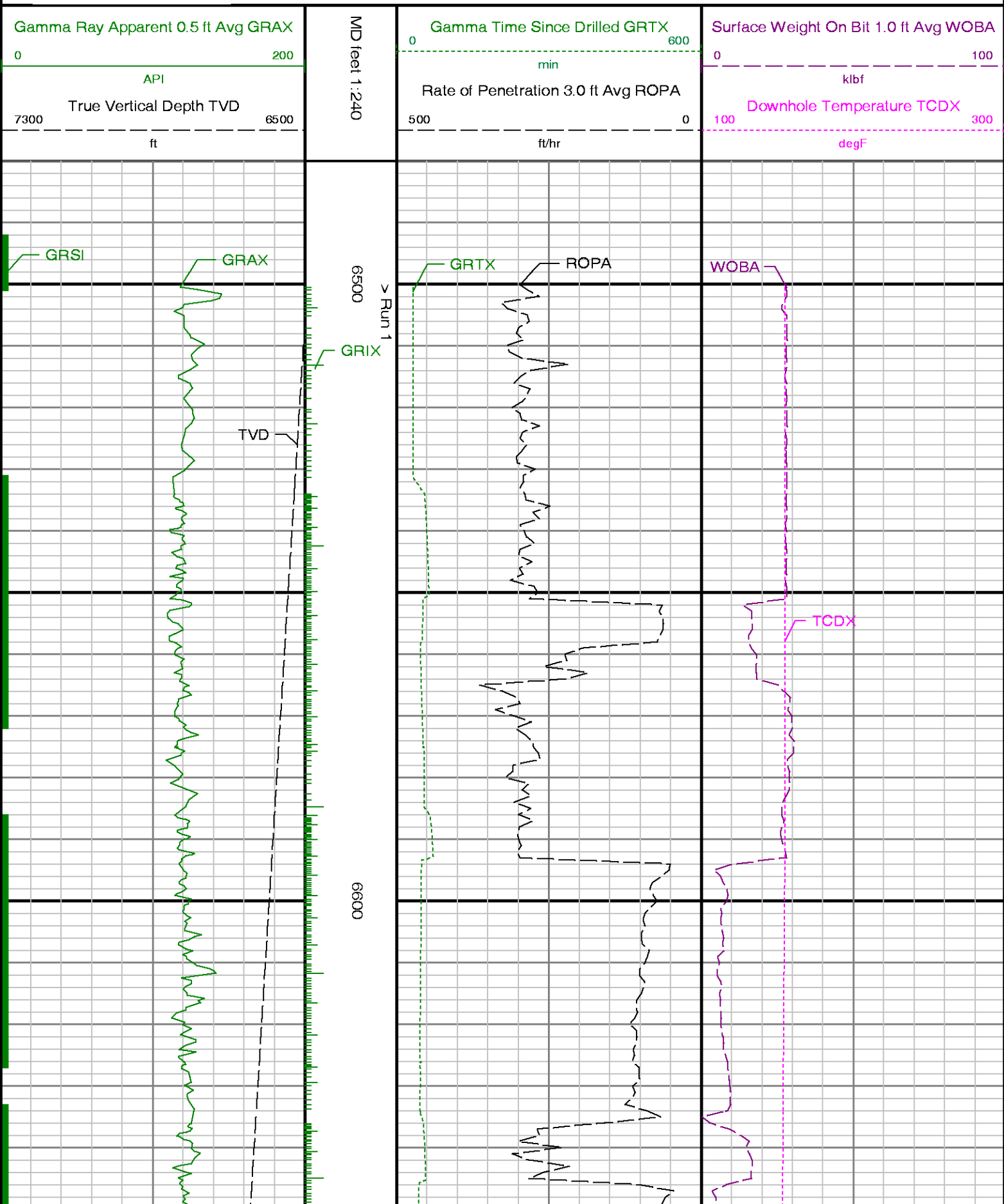


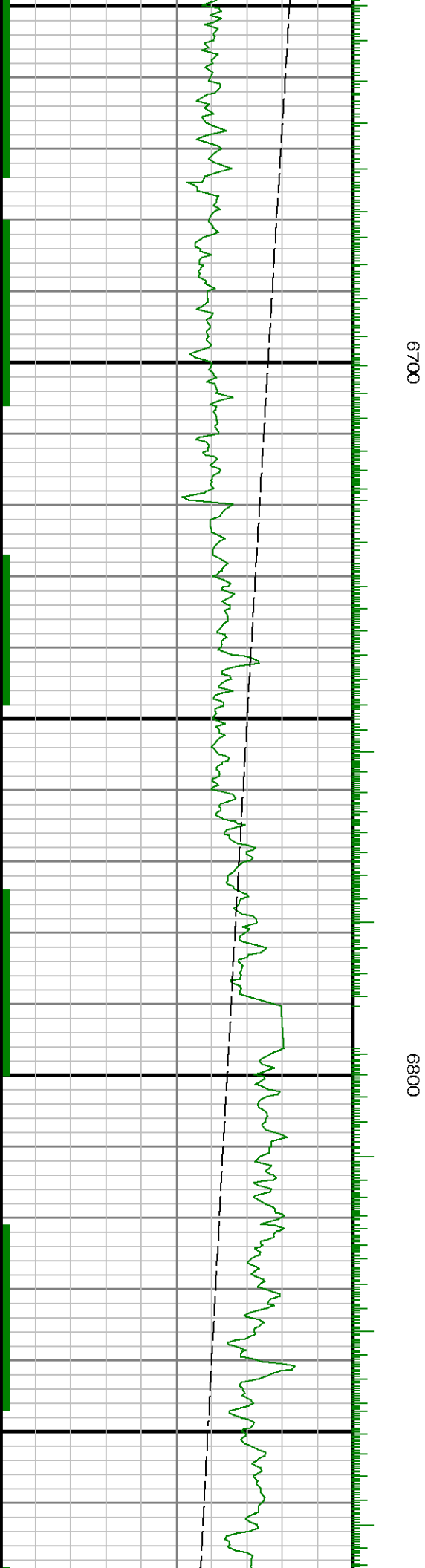
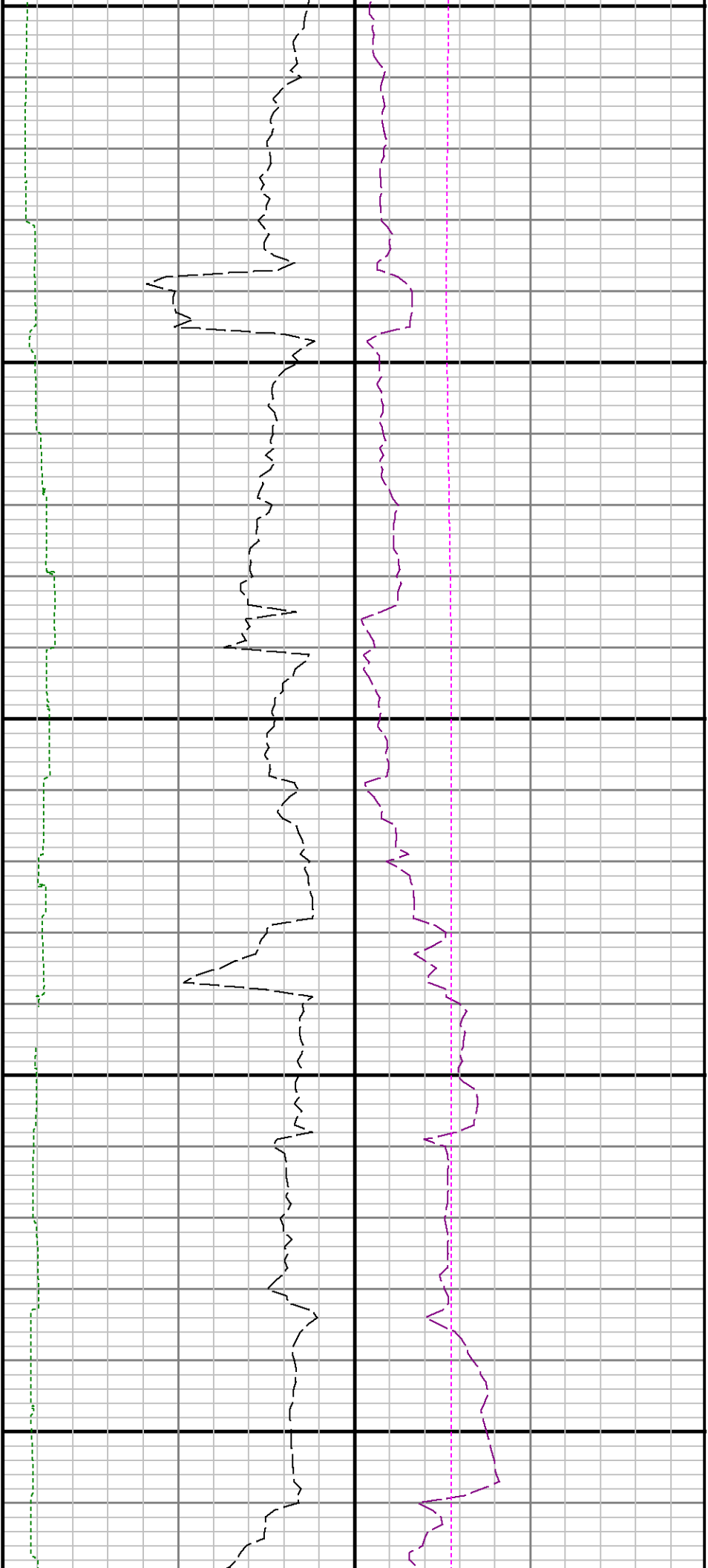
Company : Anadarko

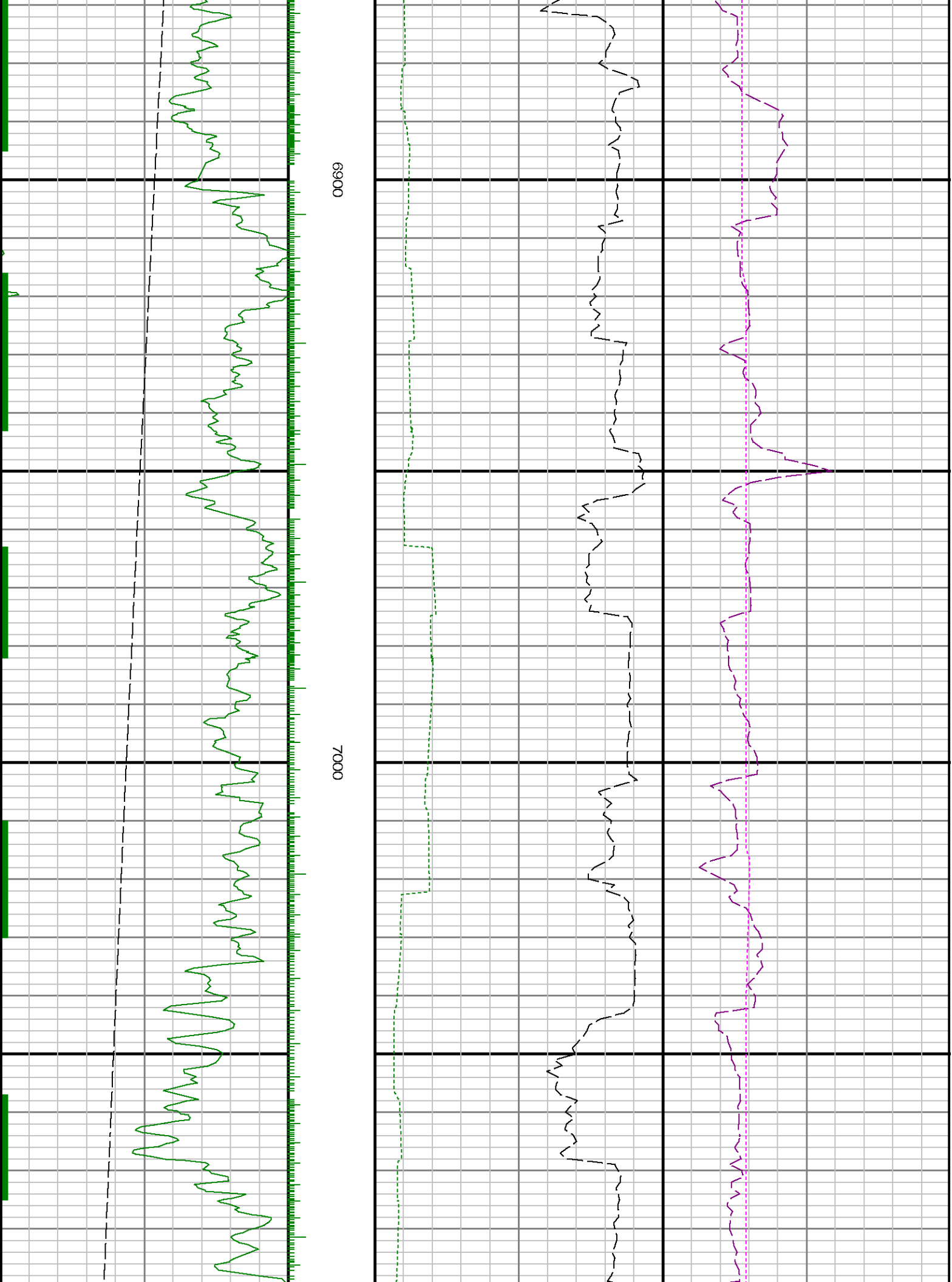
Well : Sekich State 9C-17HZ

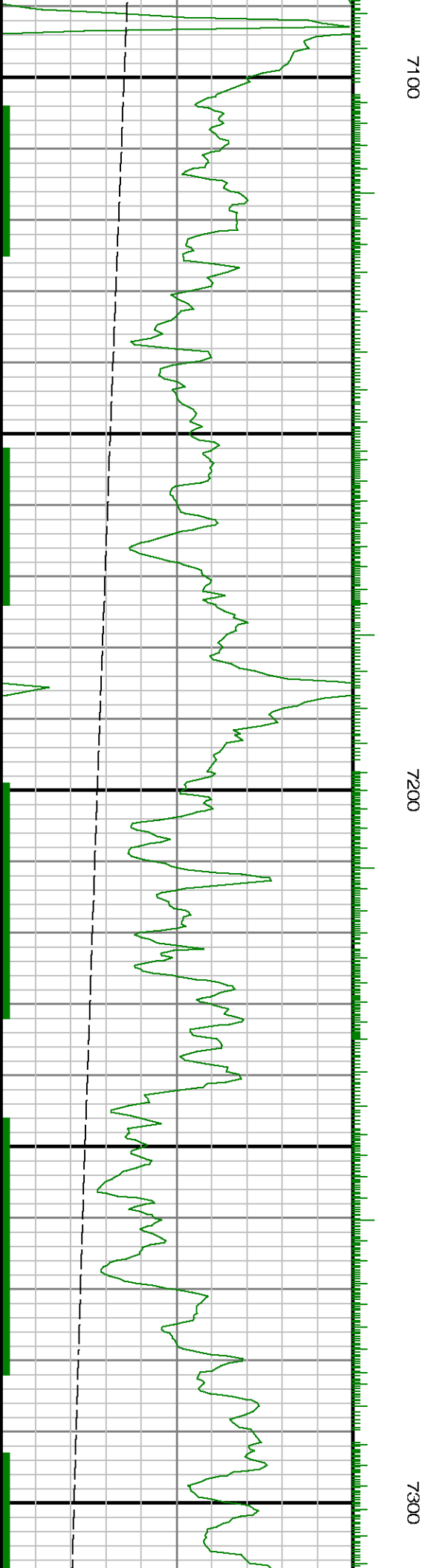
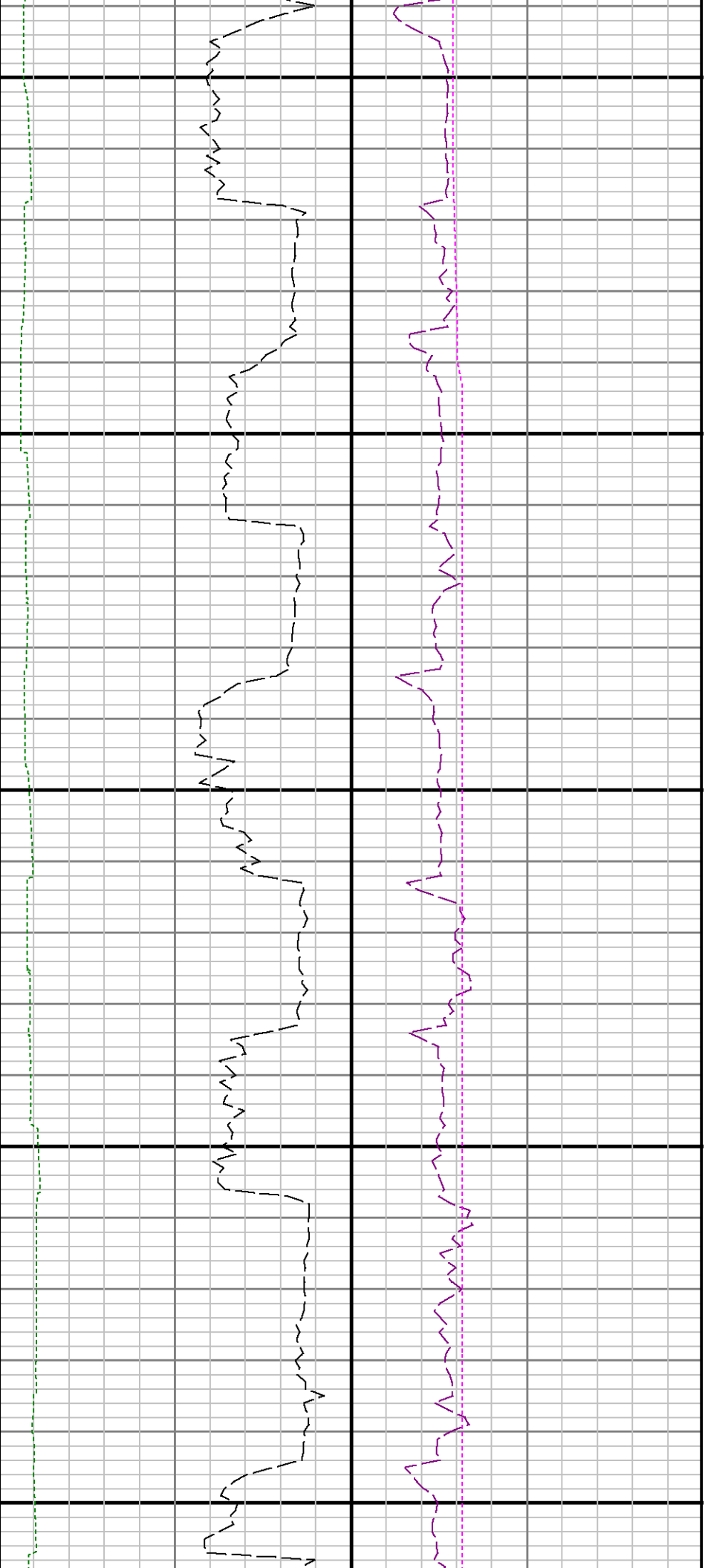
Interval : 6480.00 - 16610.00 feet DOWN

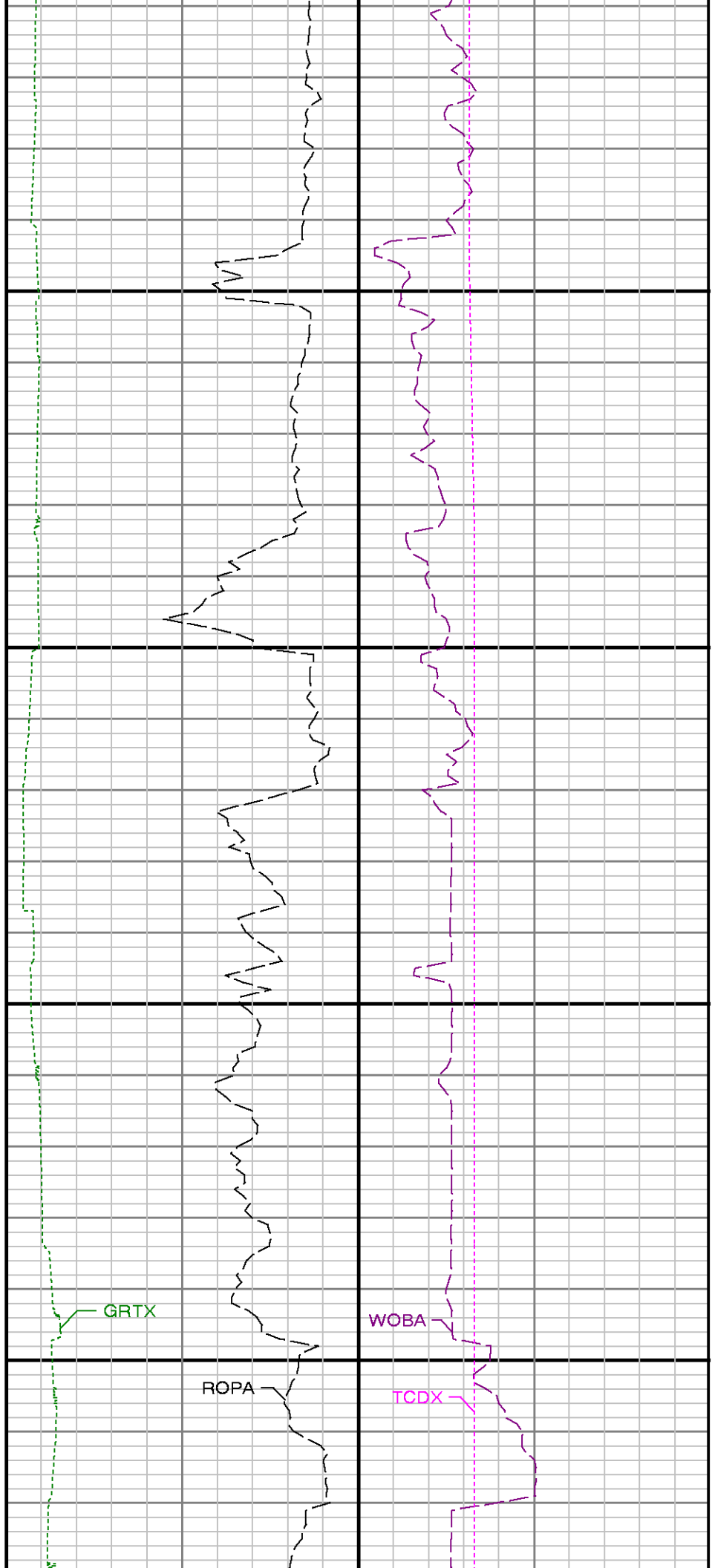
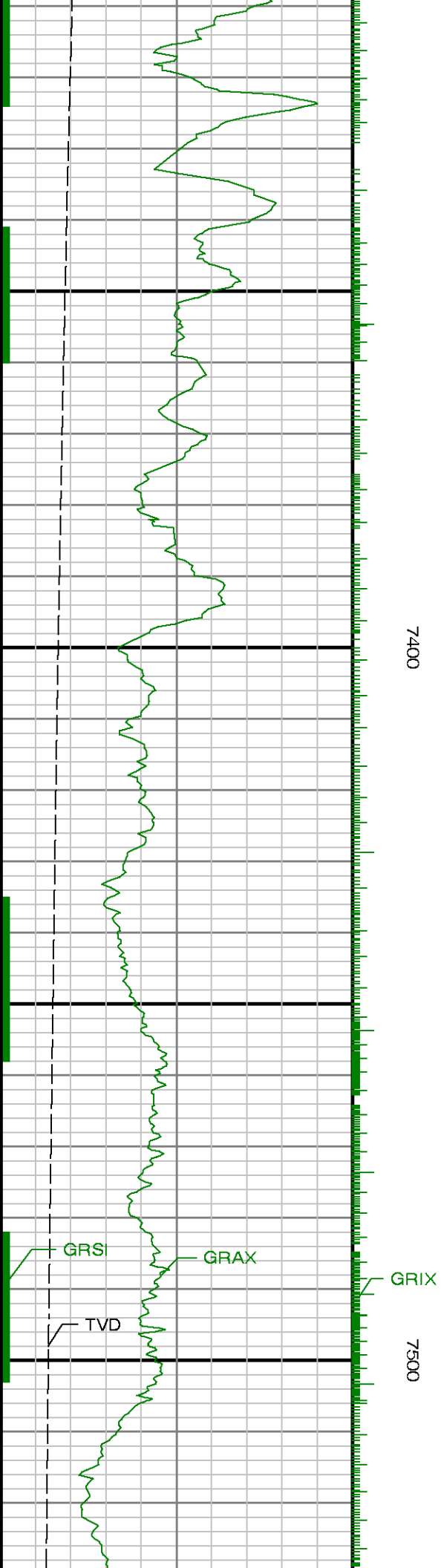
Created : 01/May/2014 11:47:28 AM

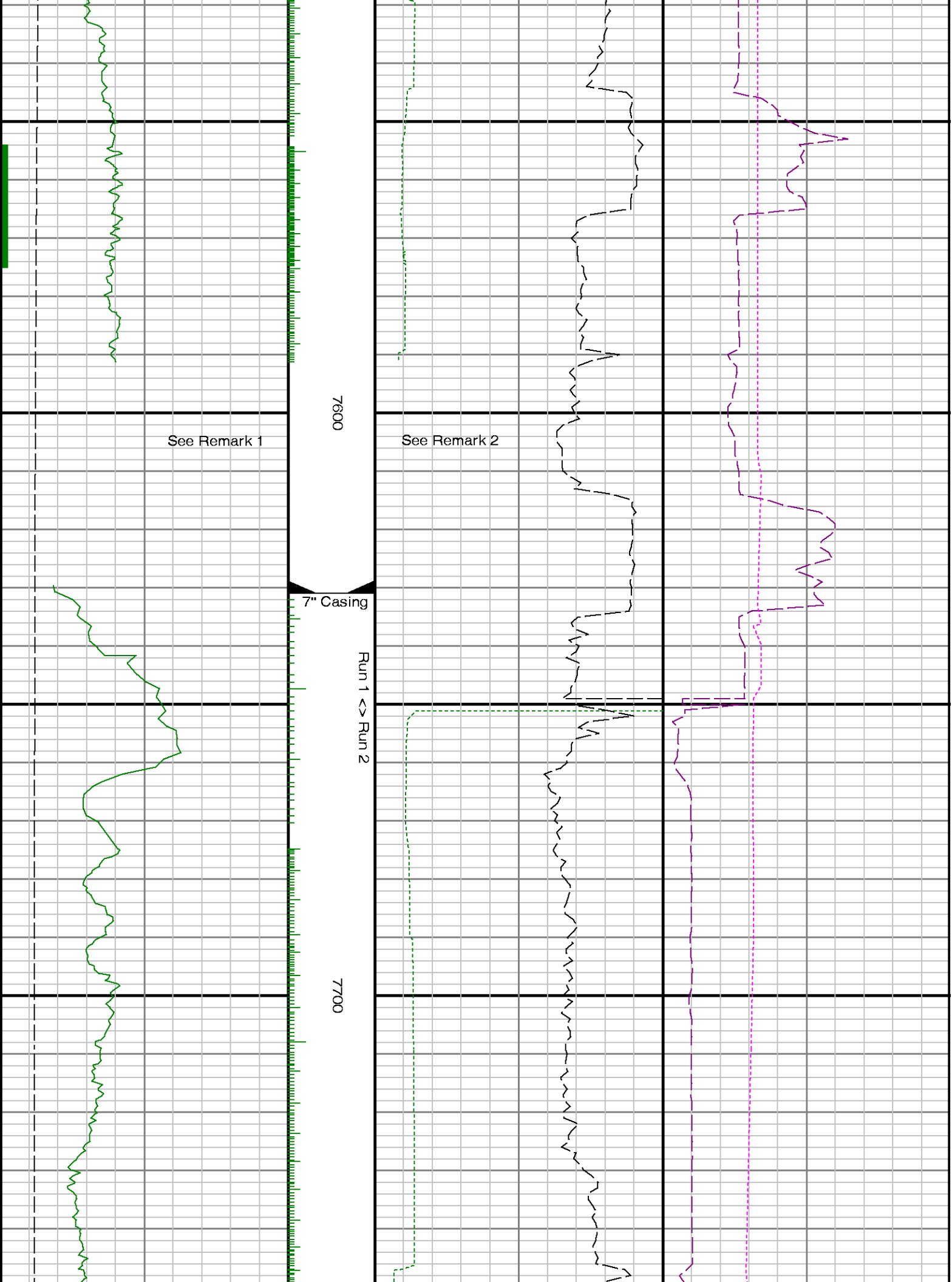


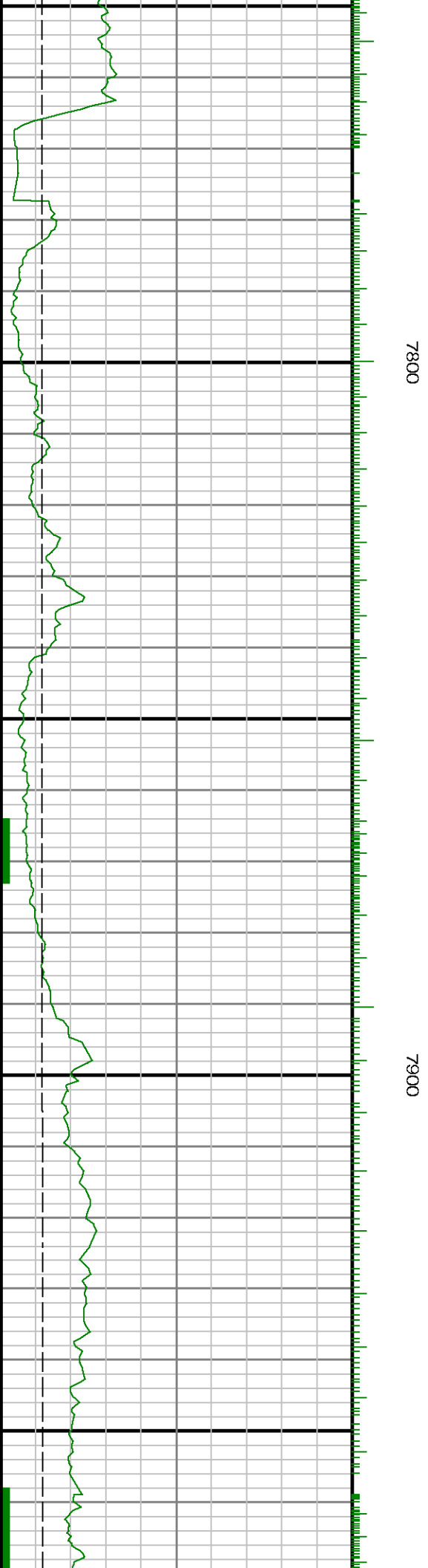
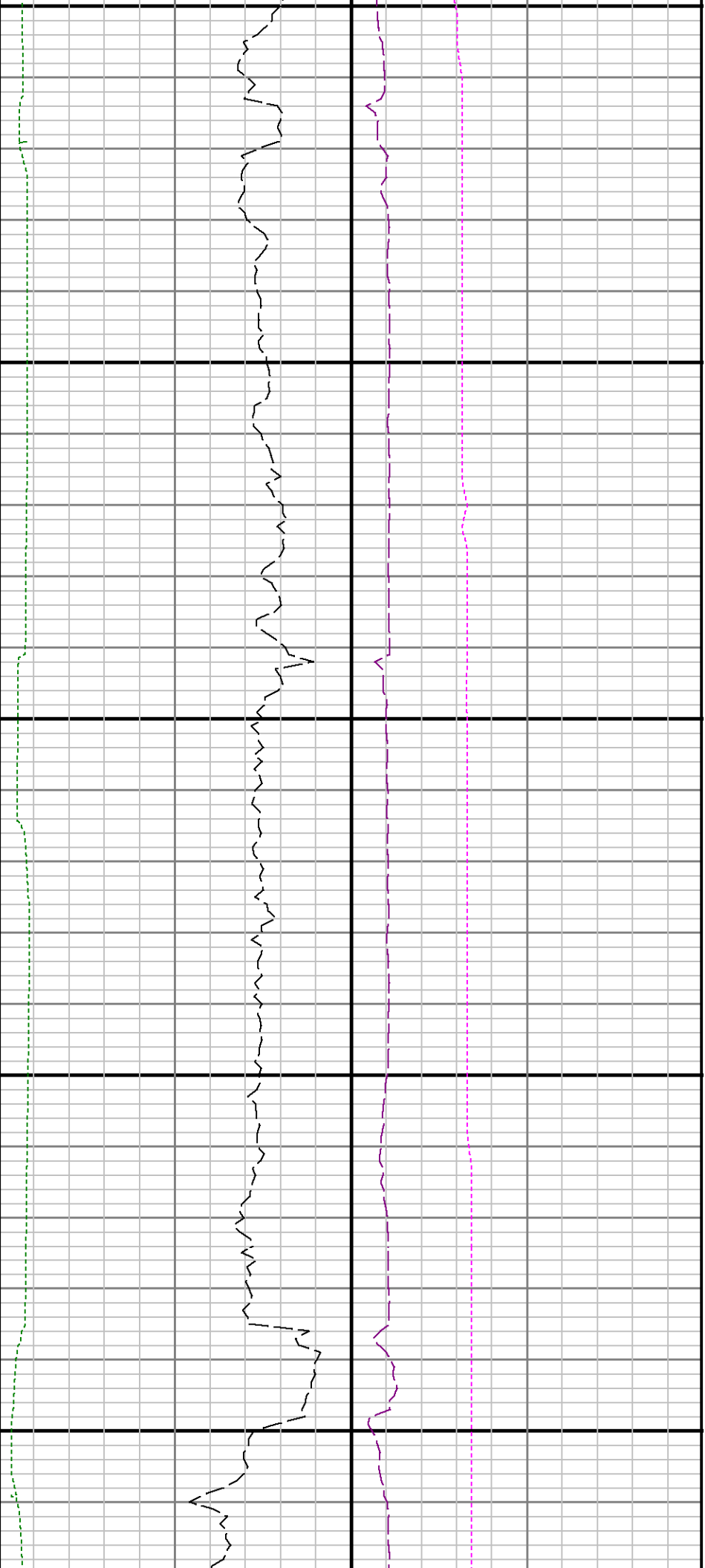


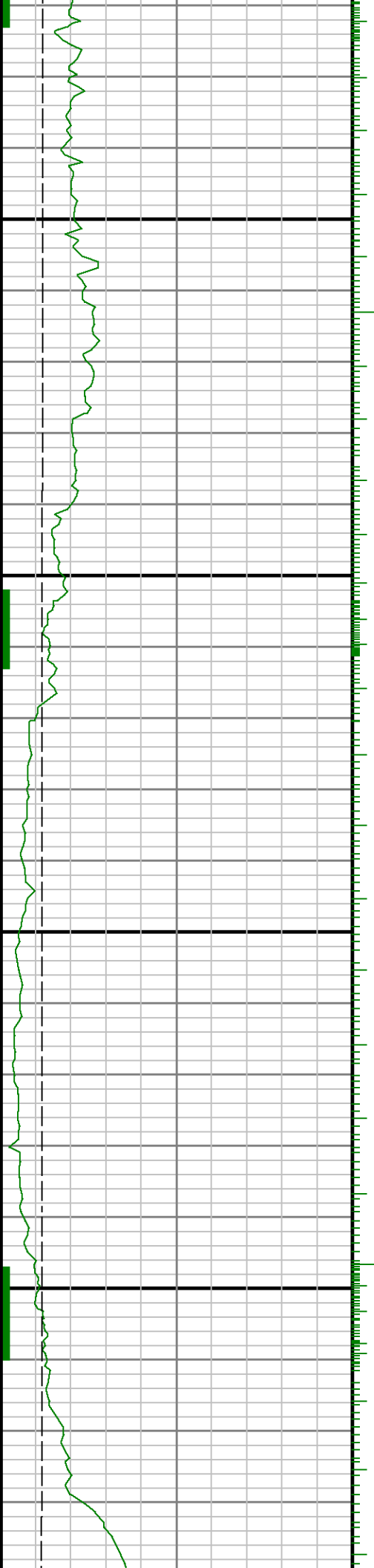






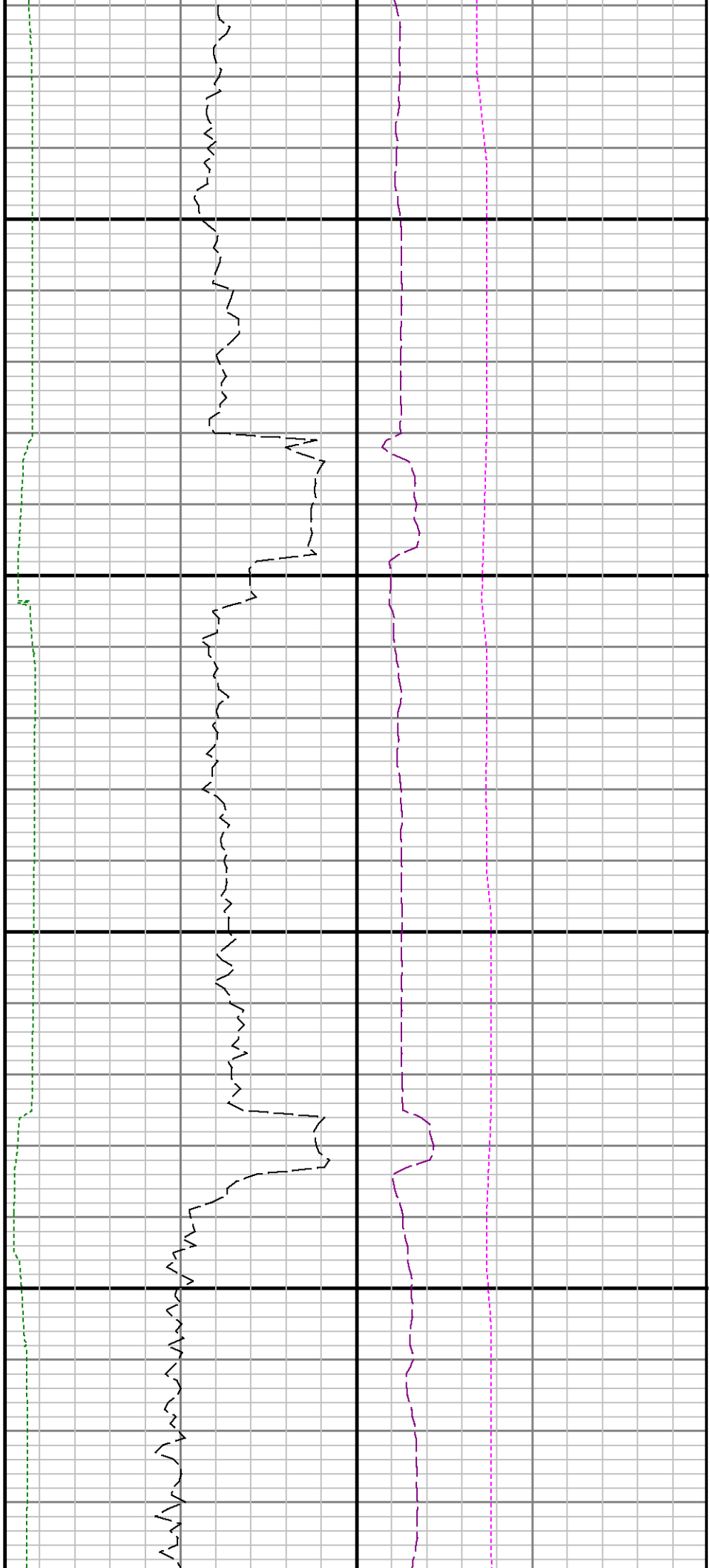






0008

8100

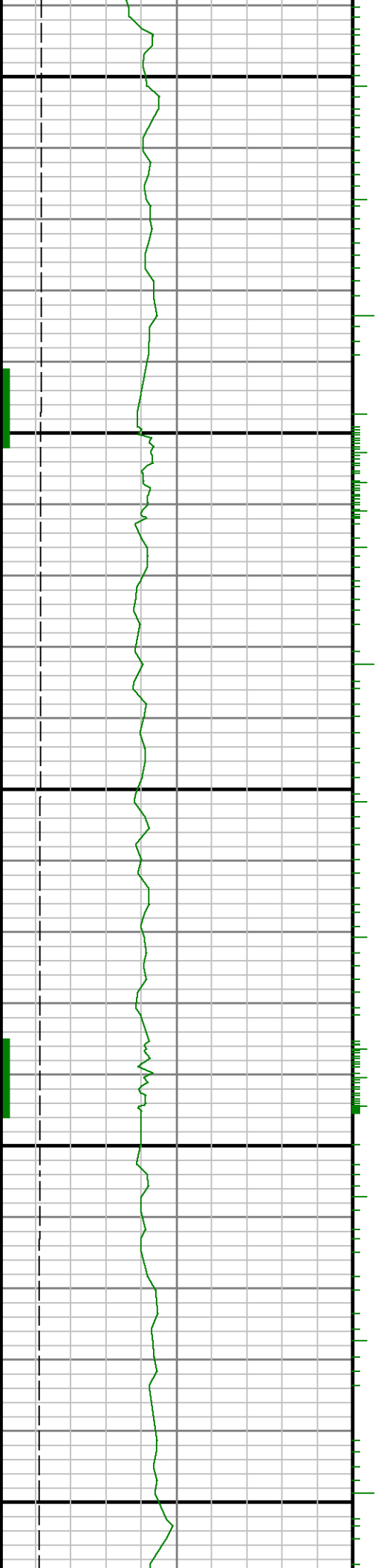


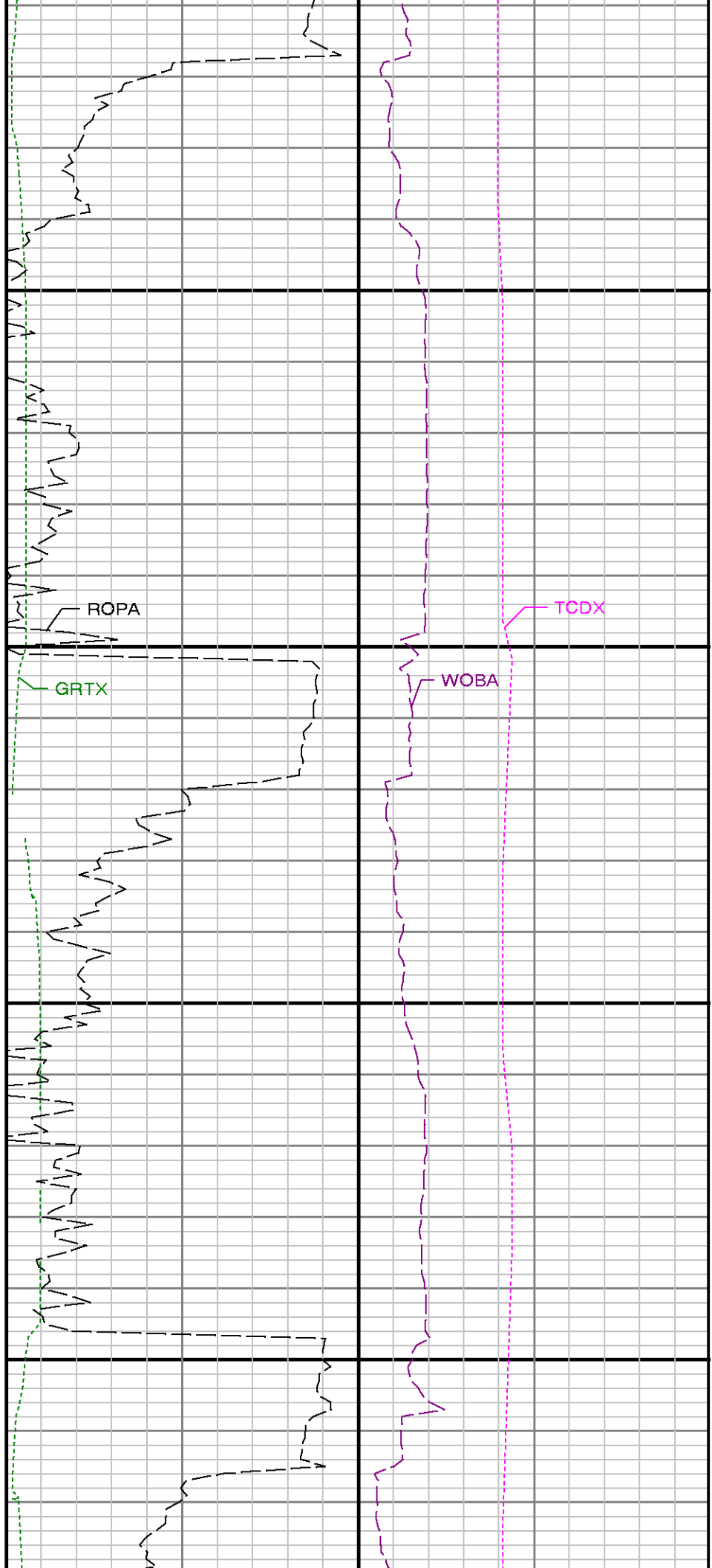
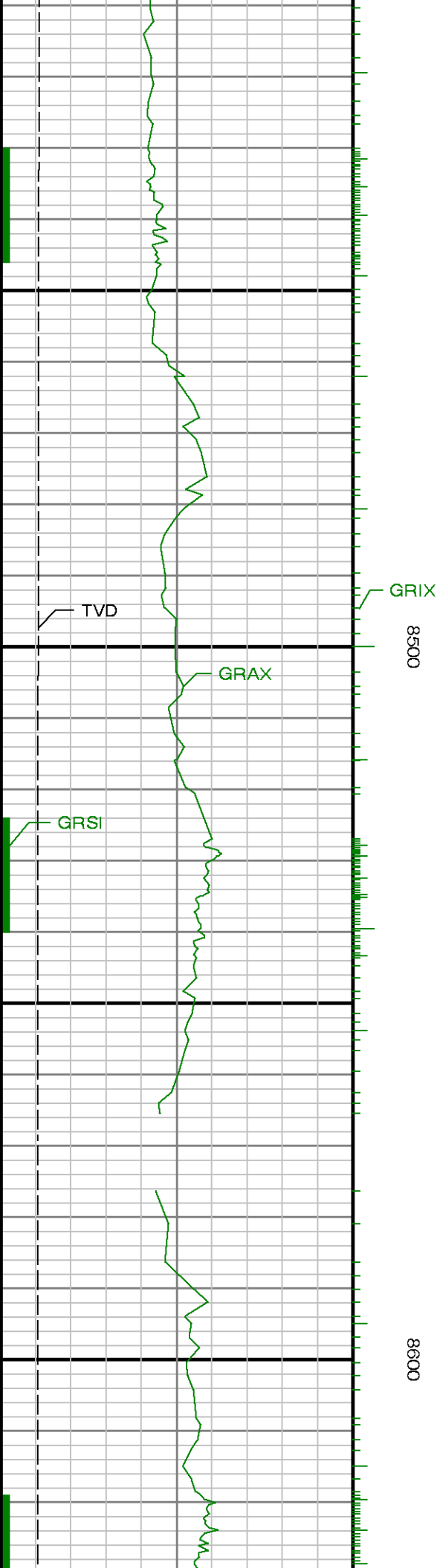


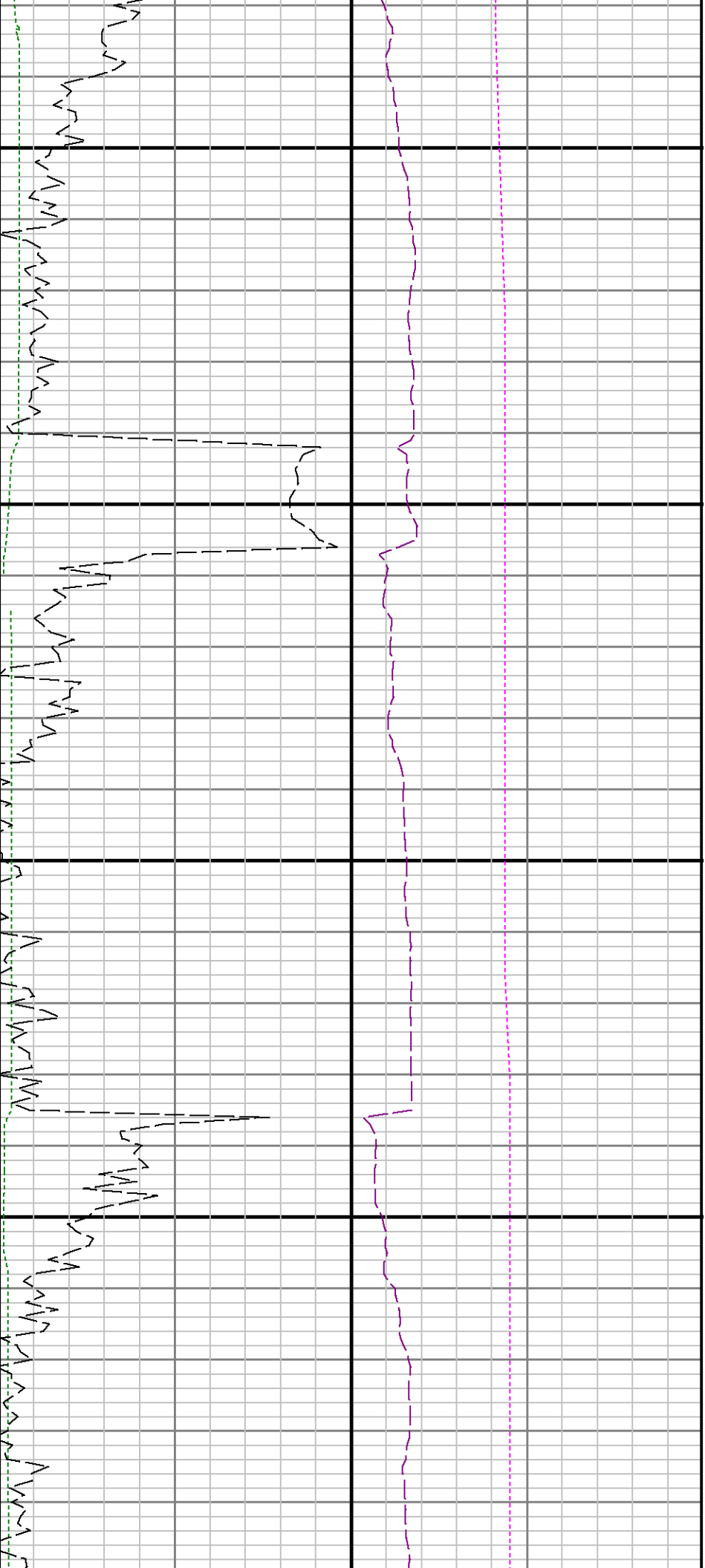
8200

8300

8400

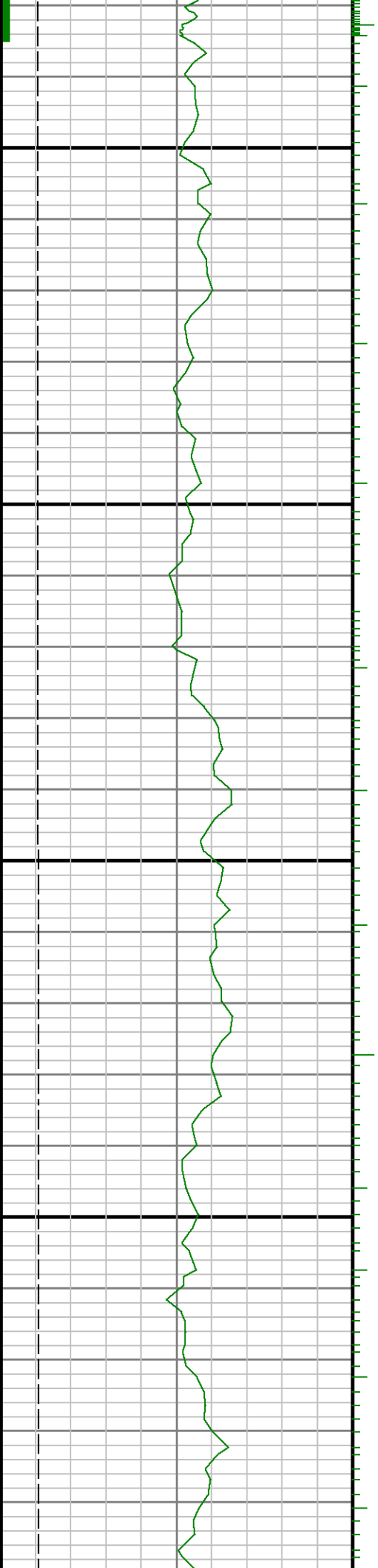


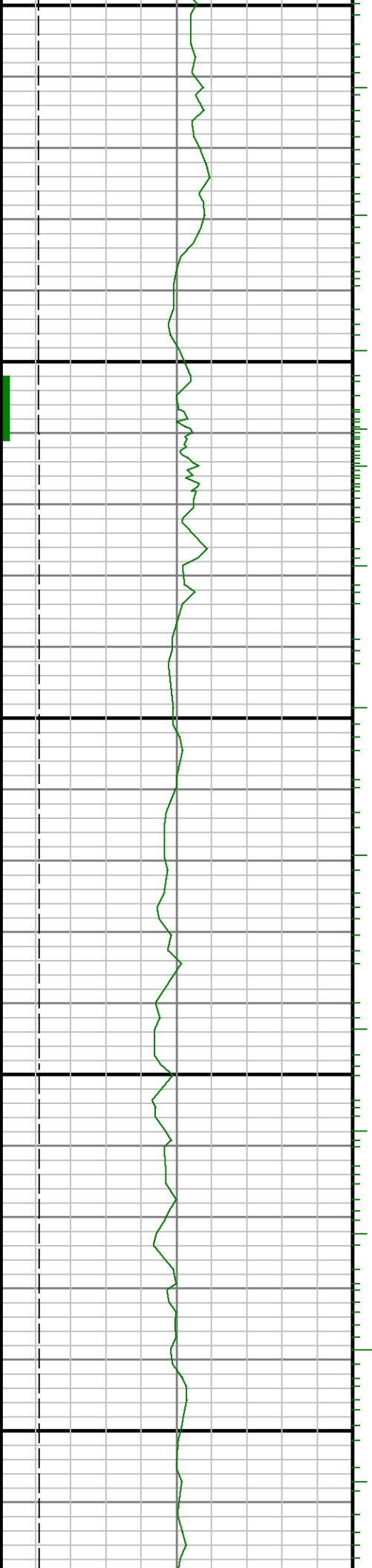




8700

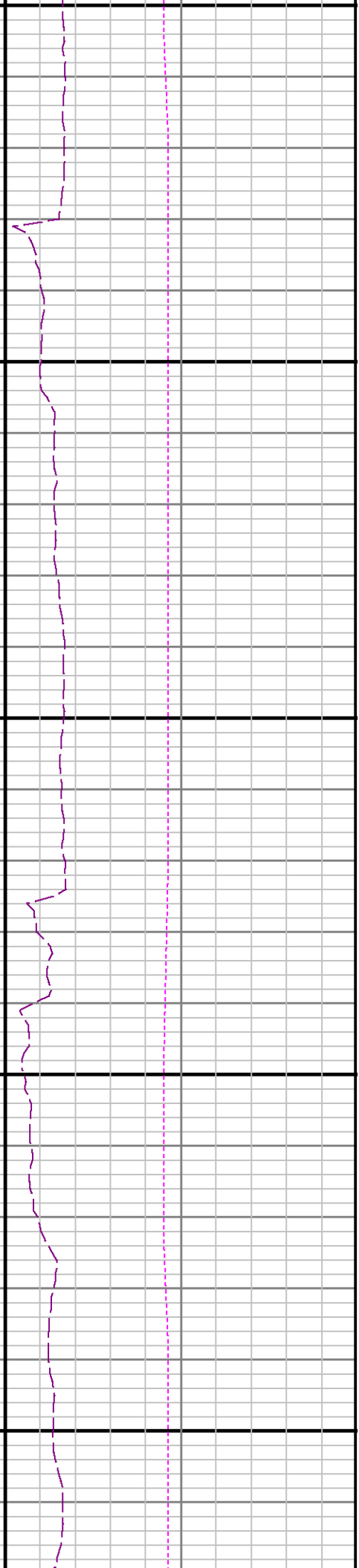
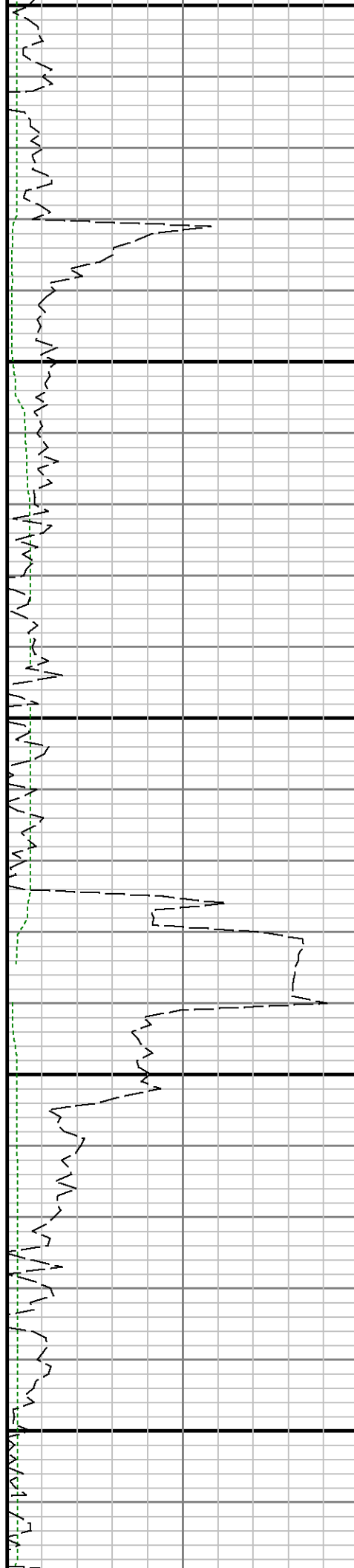
8800

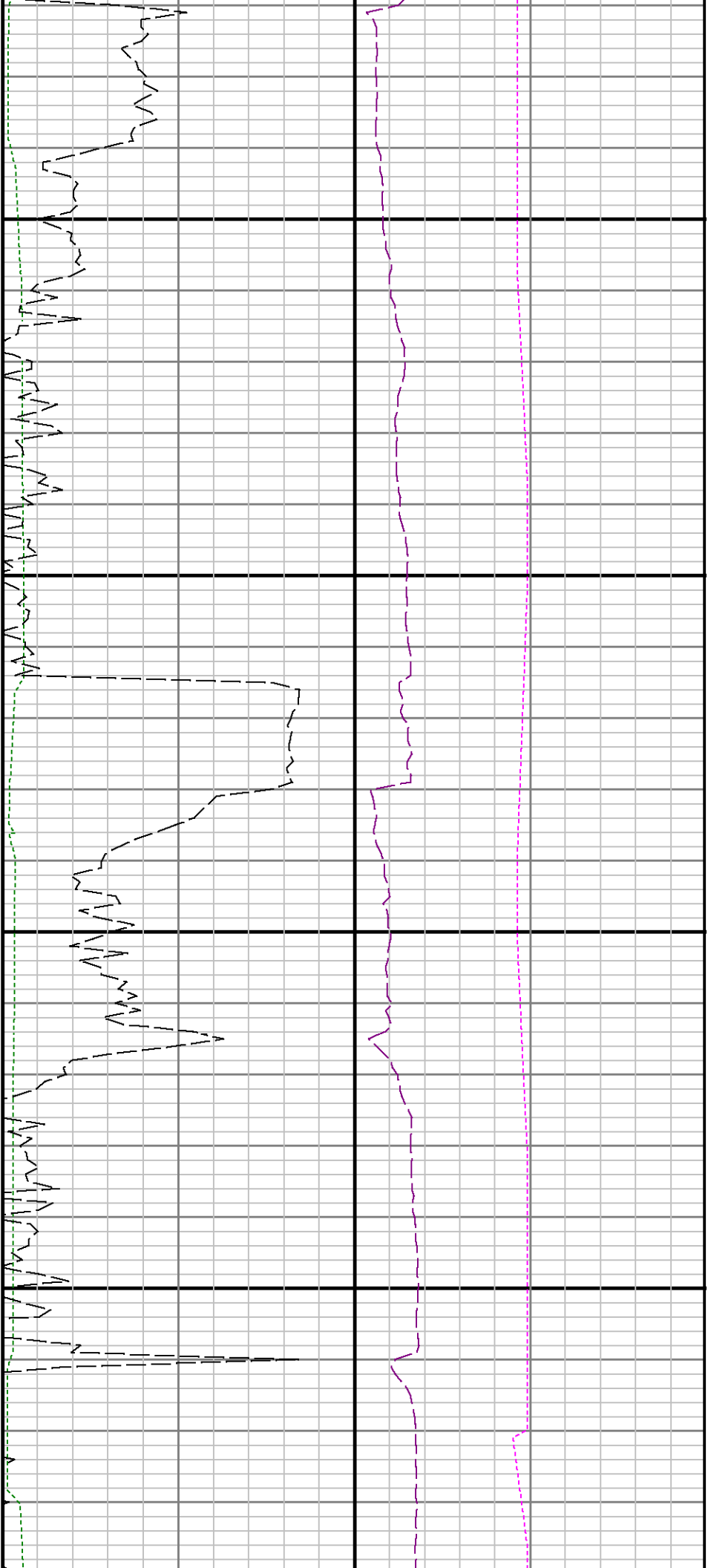




0006

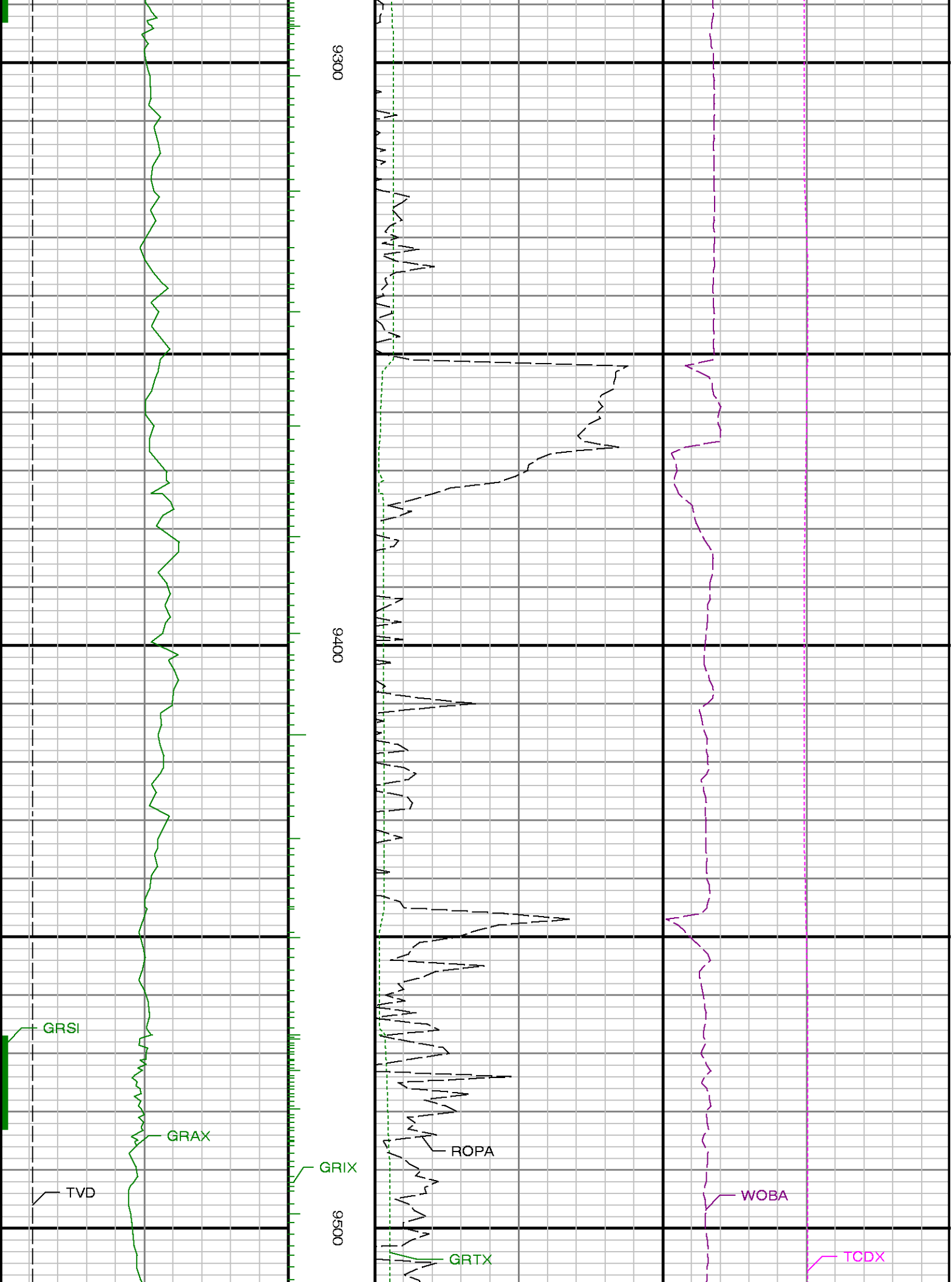
0068

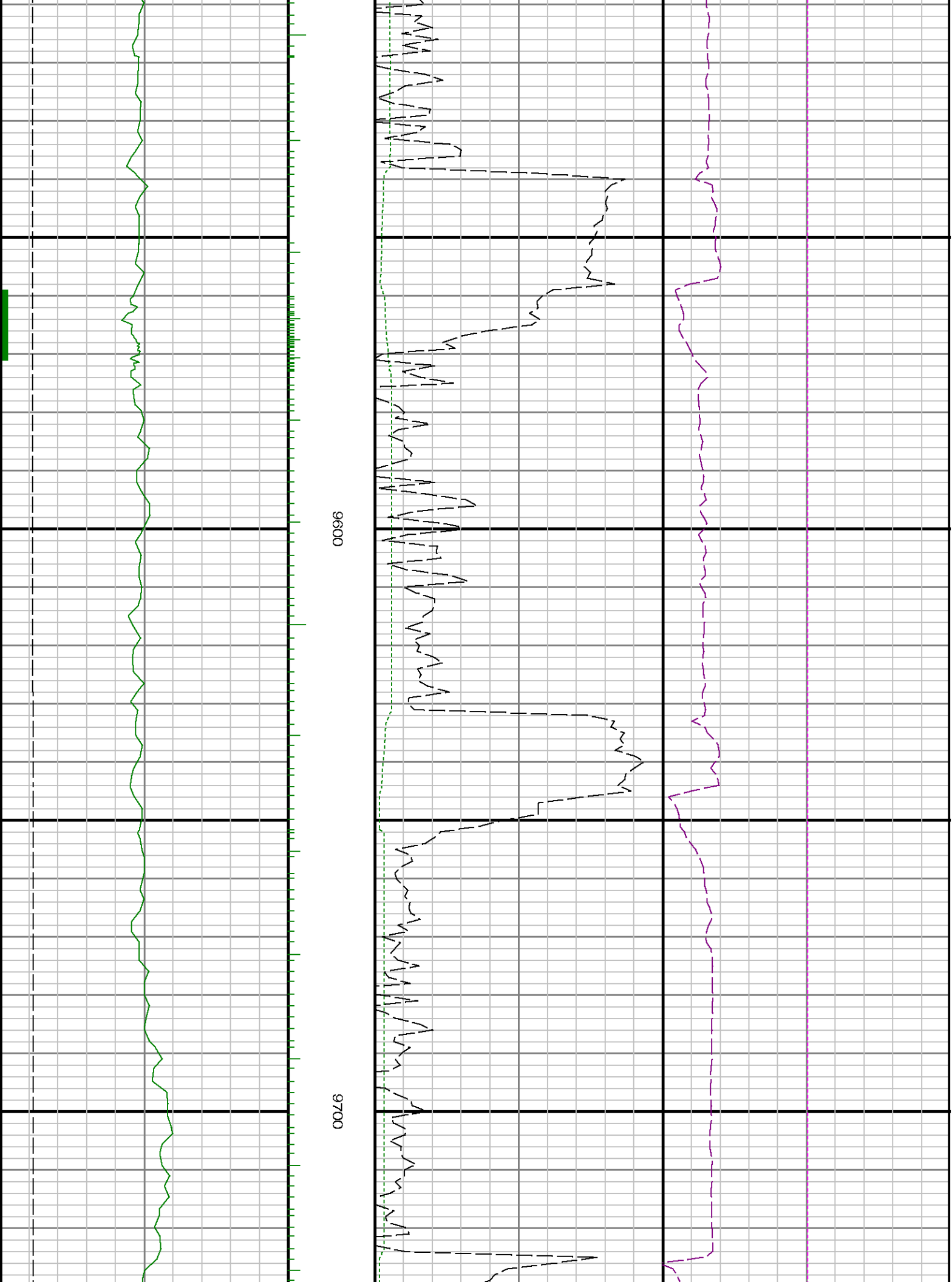


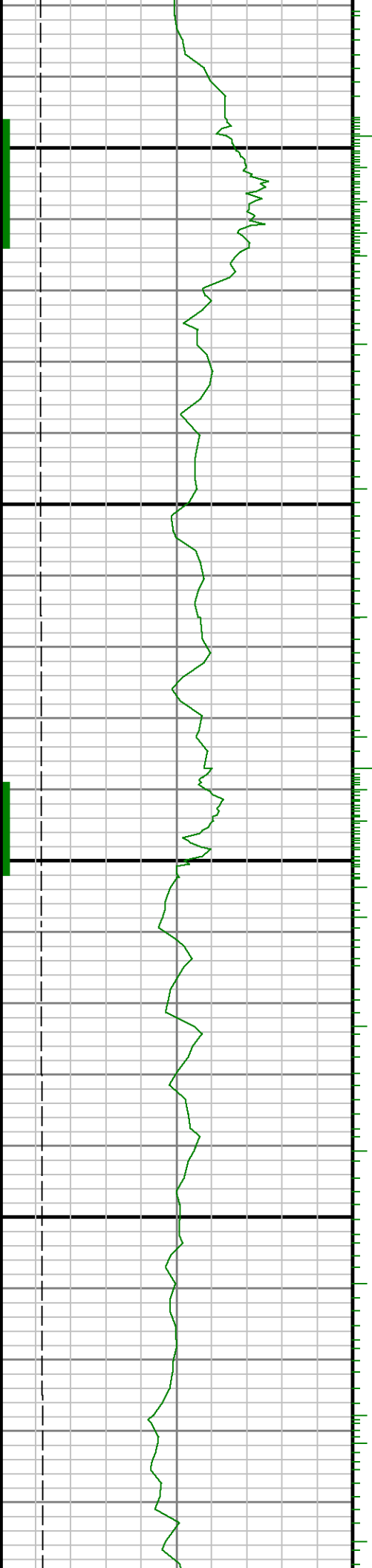


9100

9200

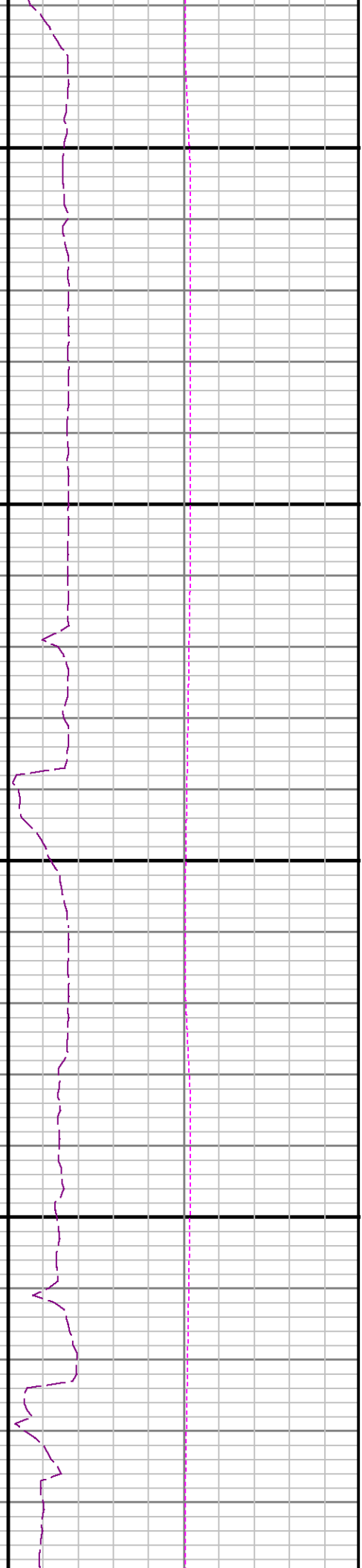
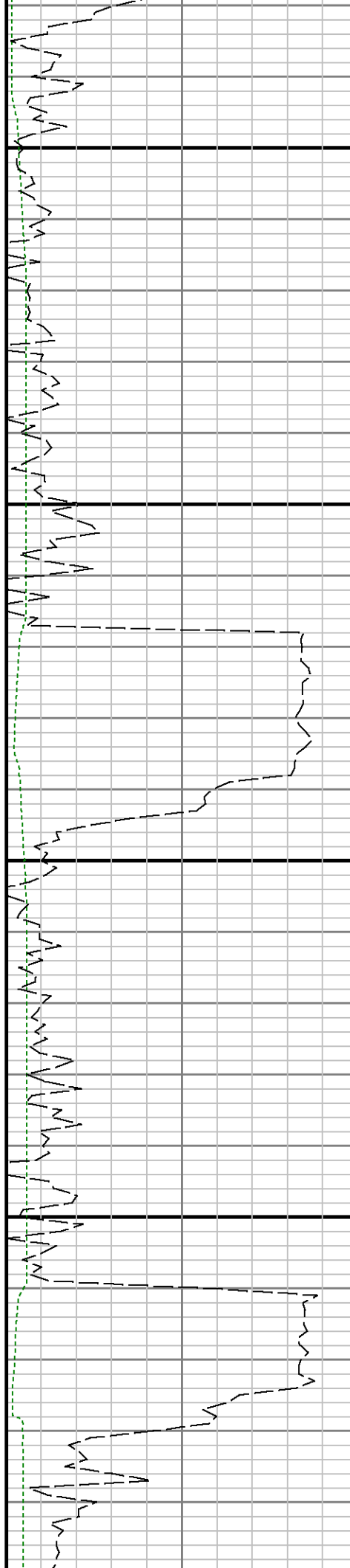


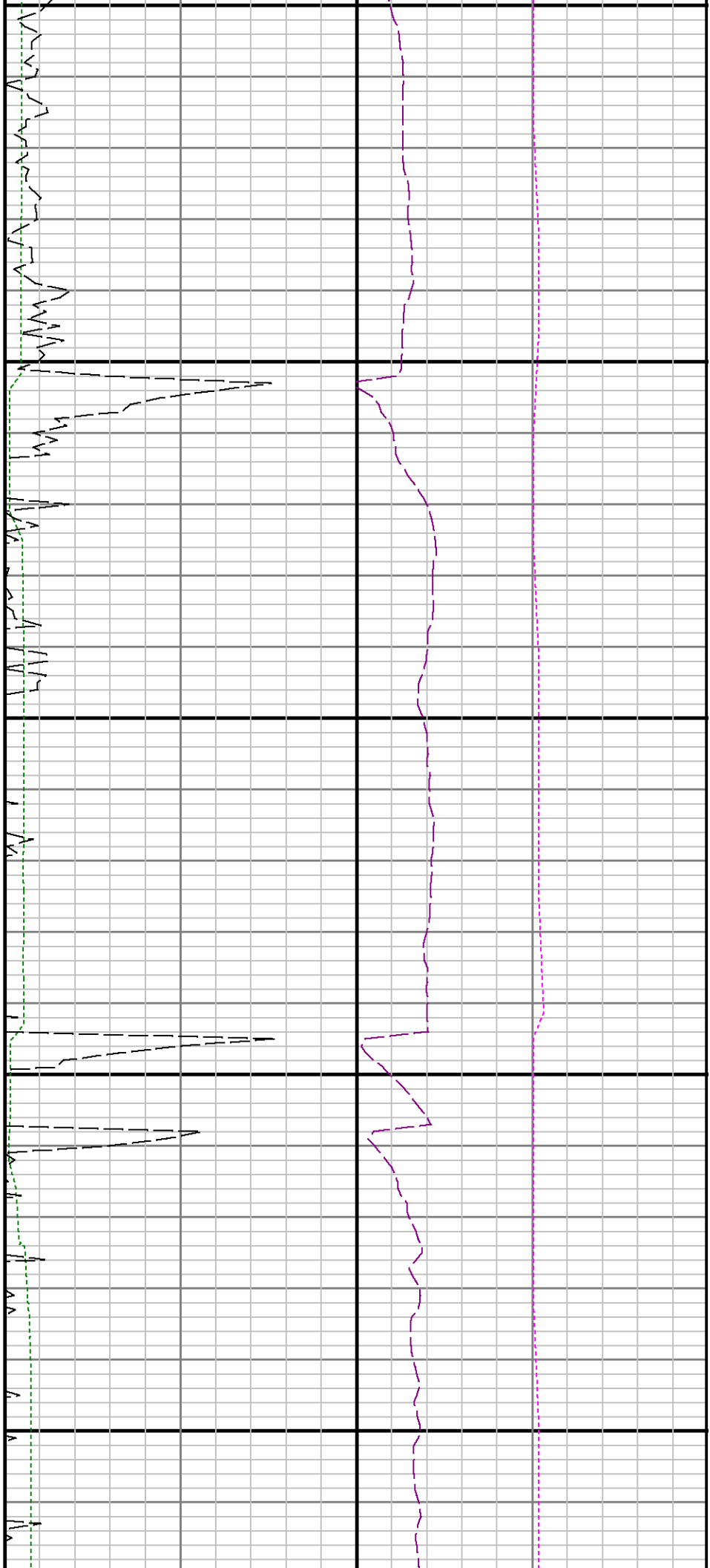




0086

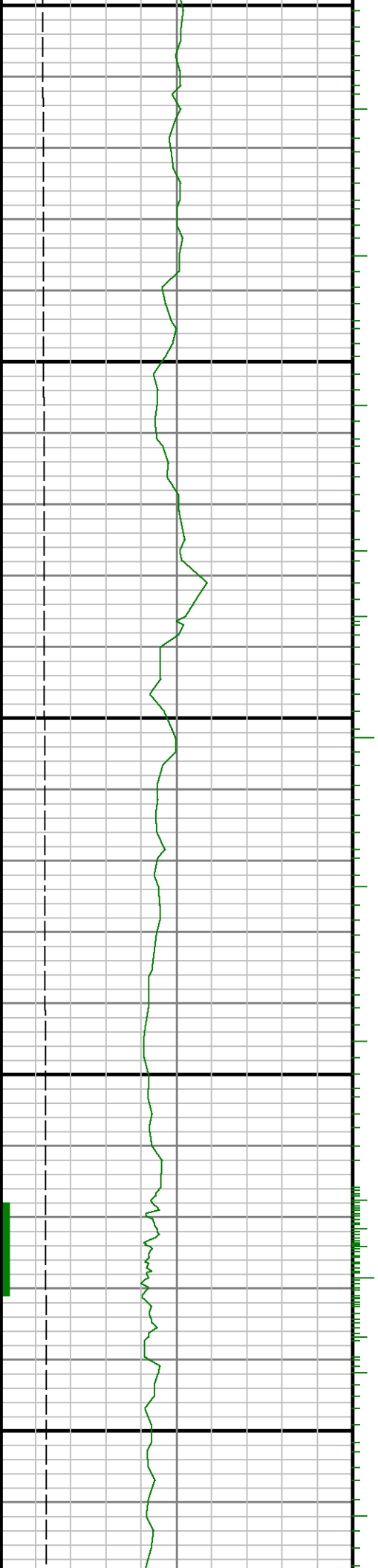
0066

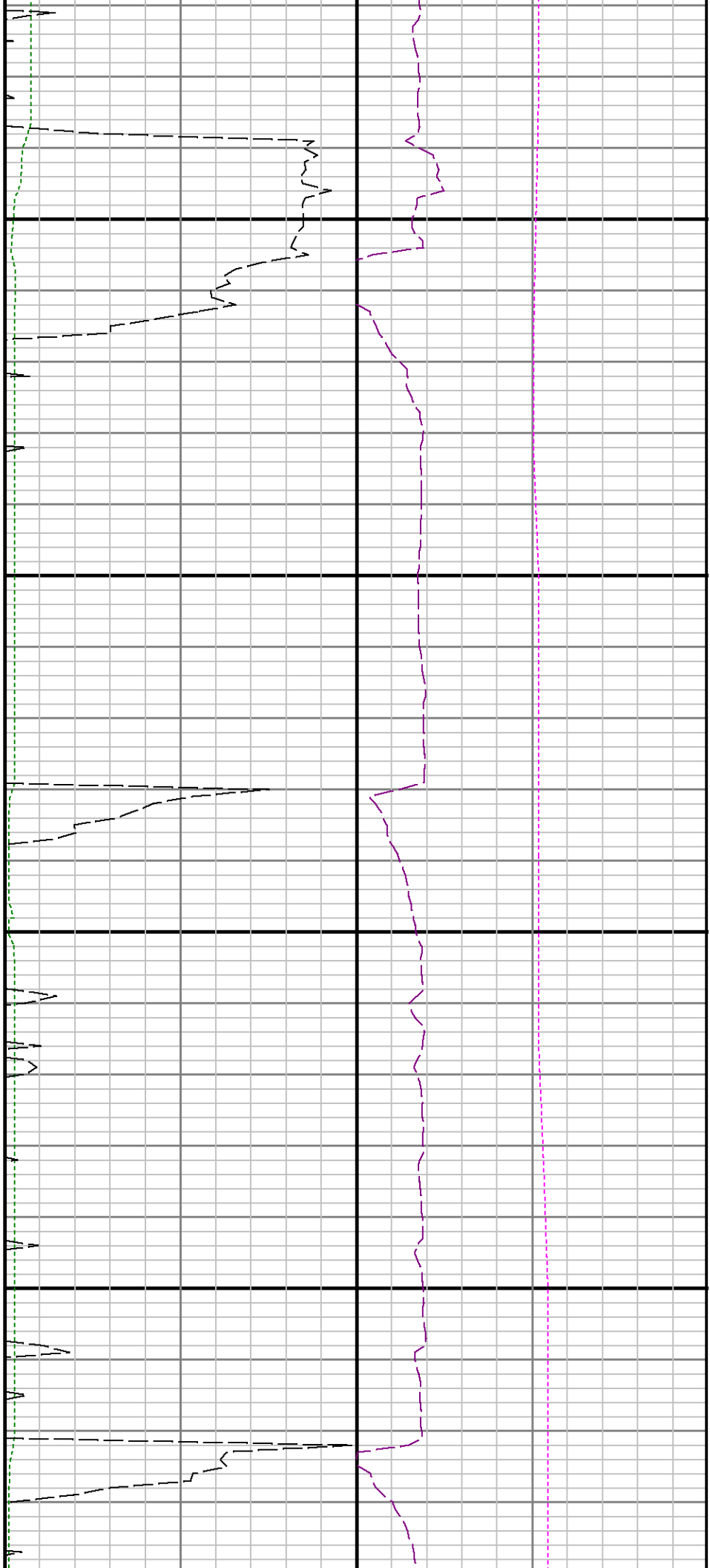




10000

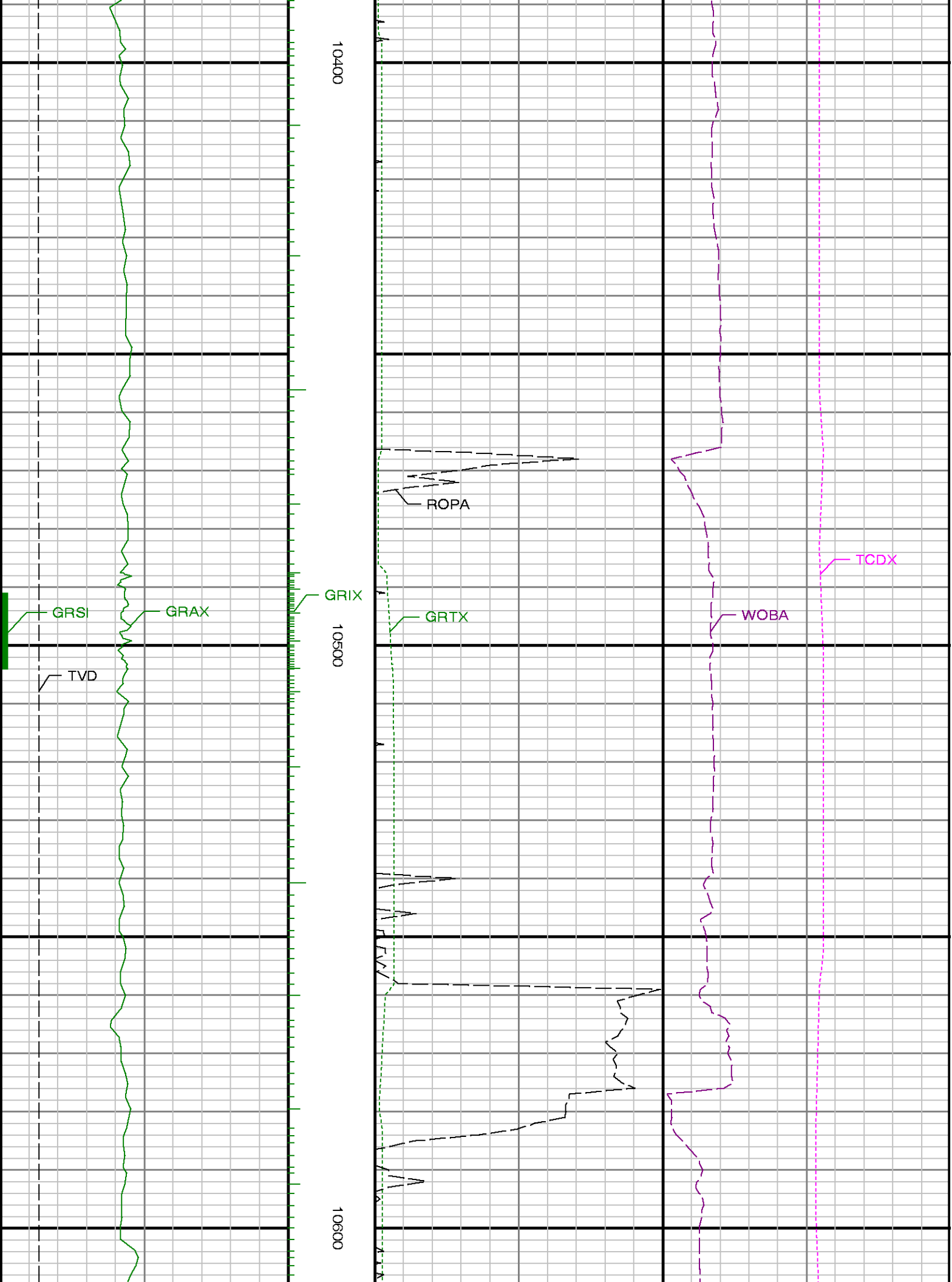
10100

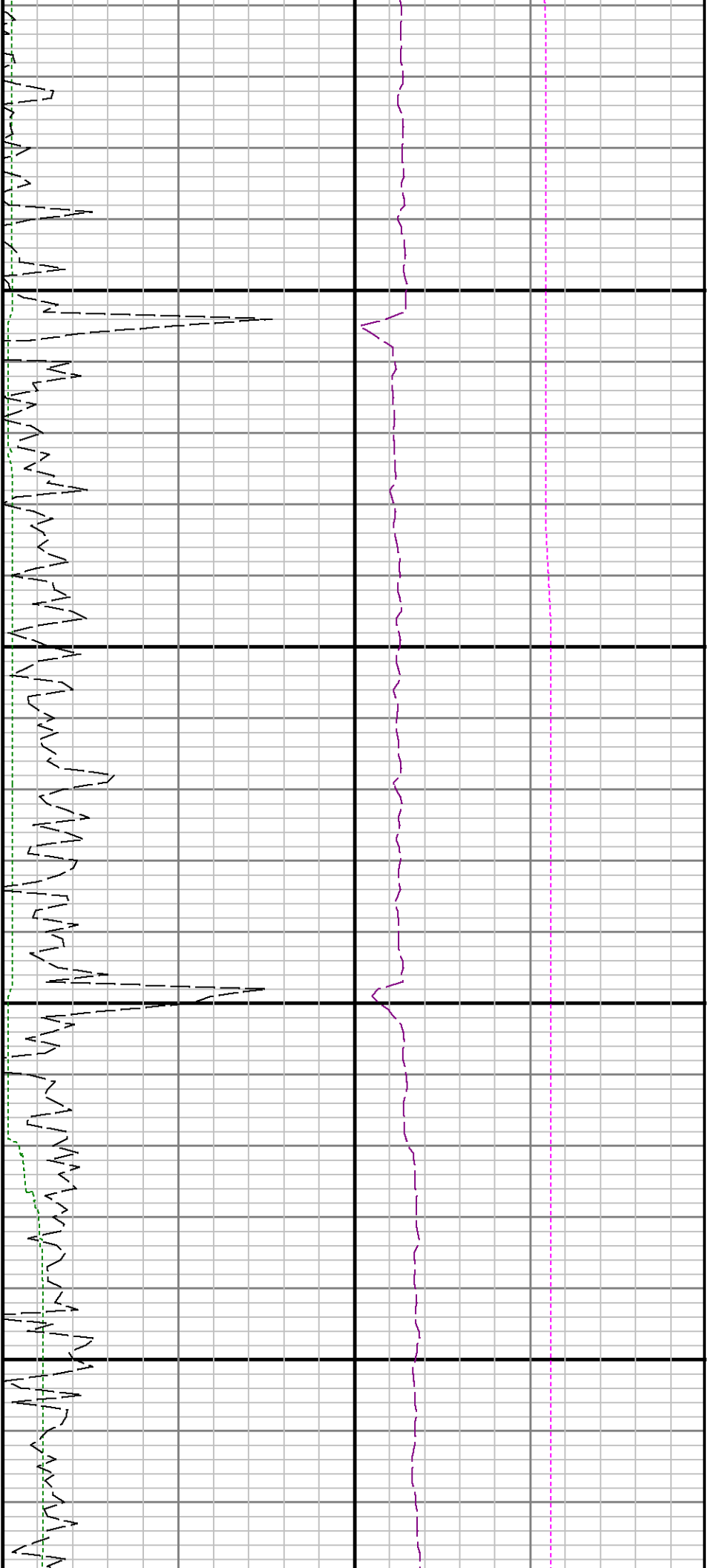




10200

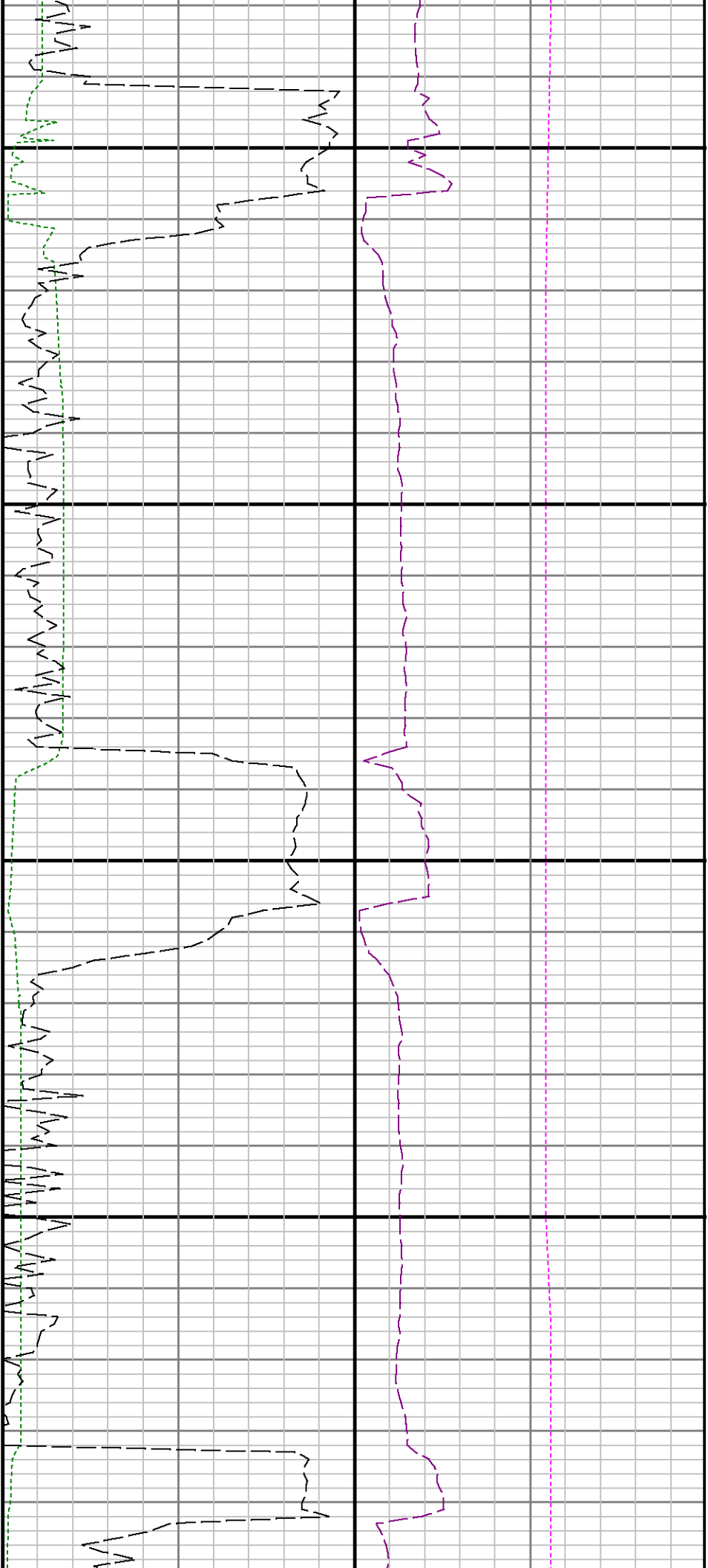
10300





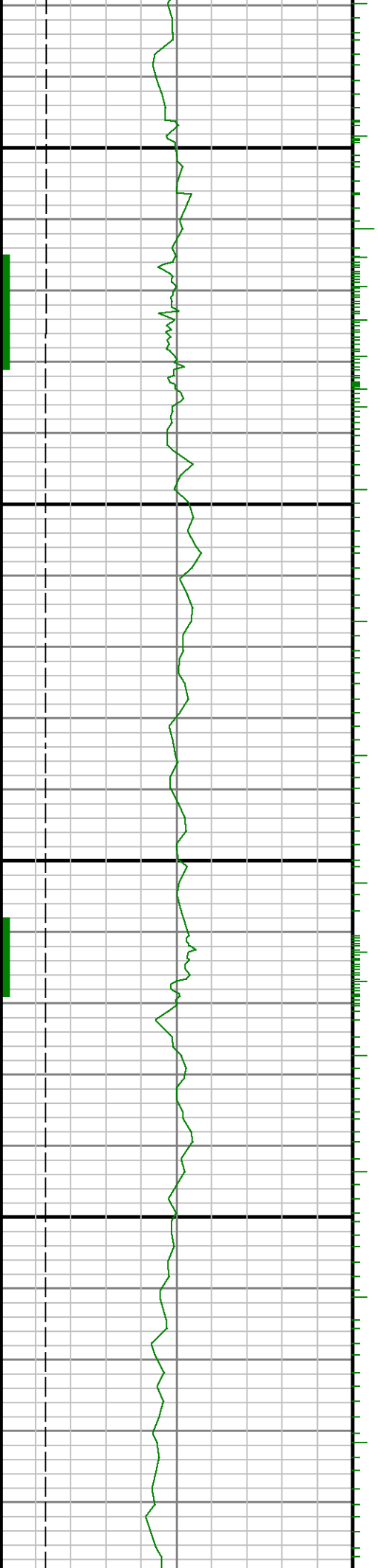
10700

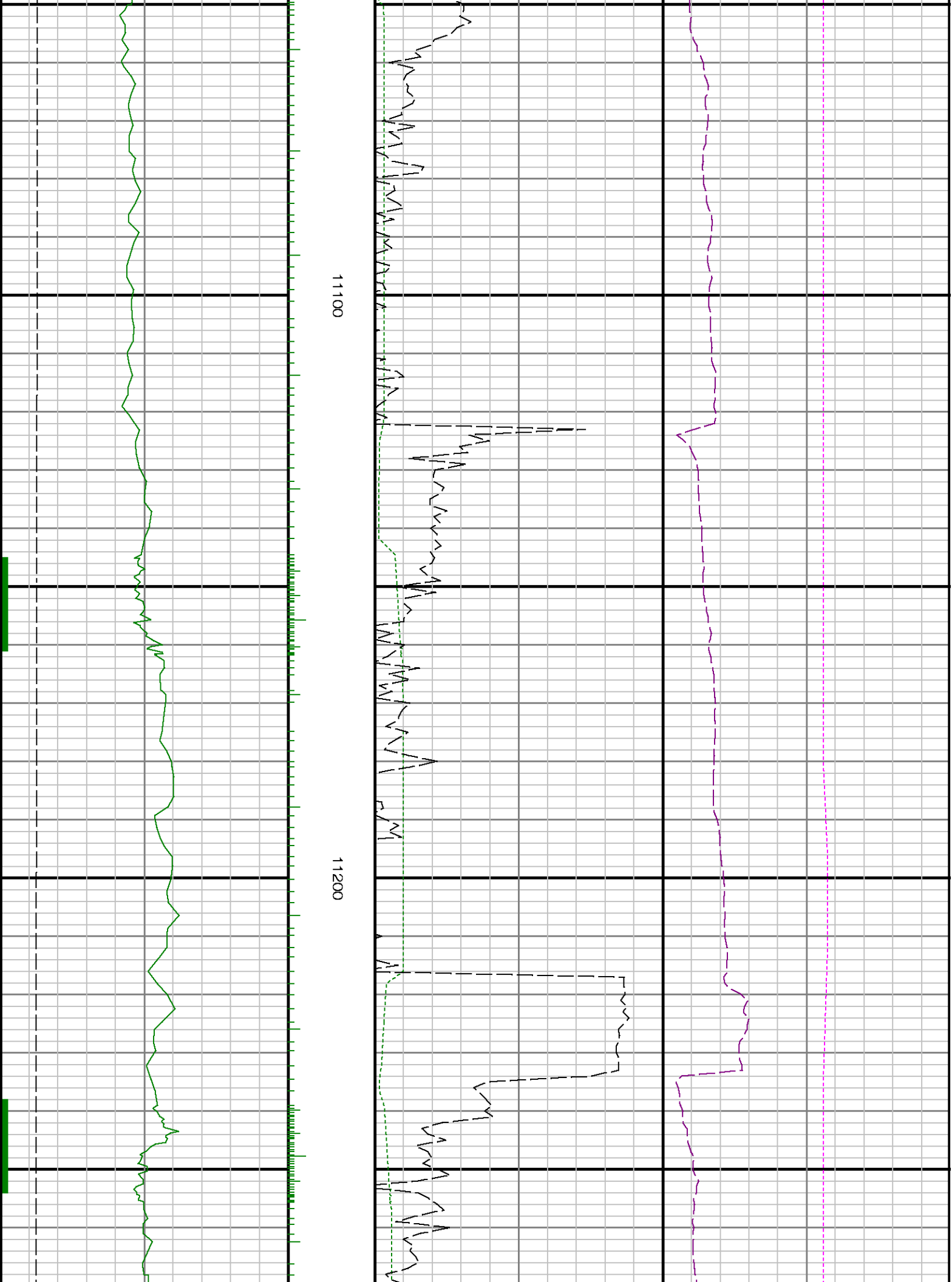
10800



10900

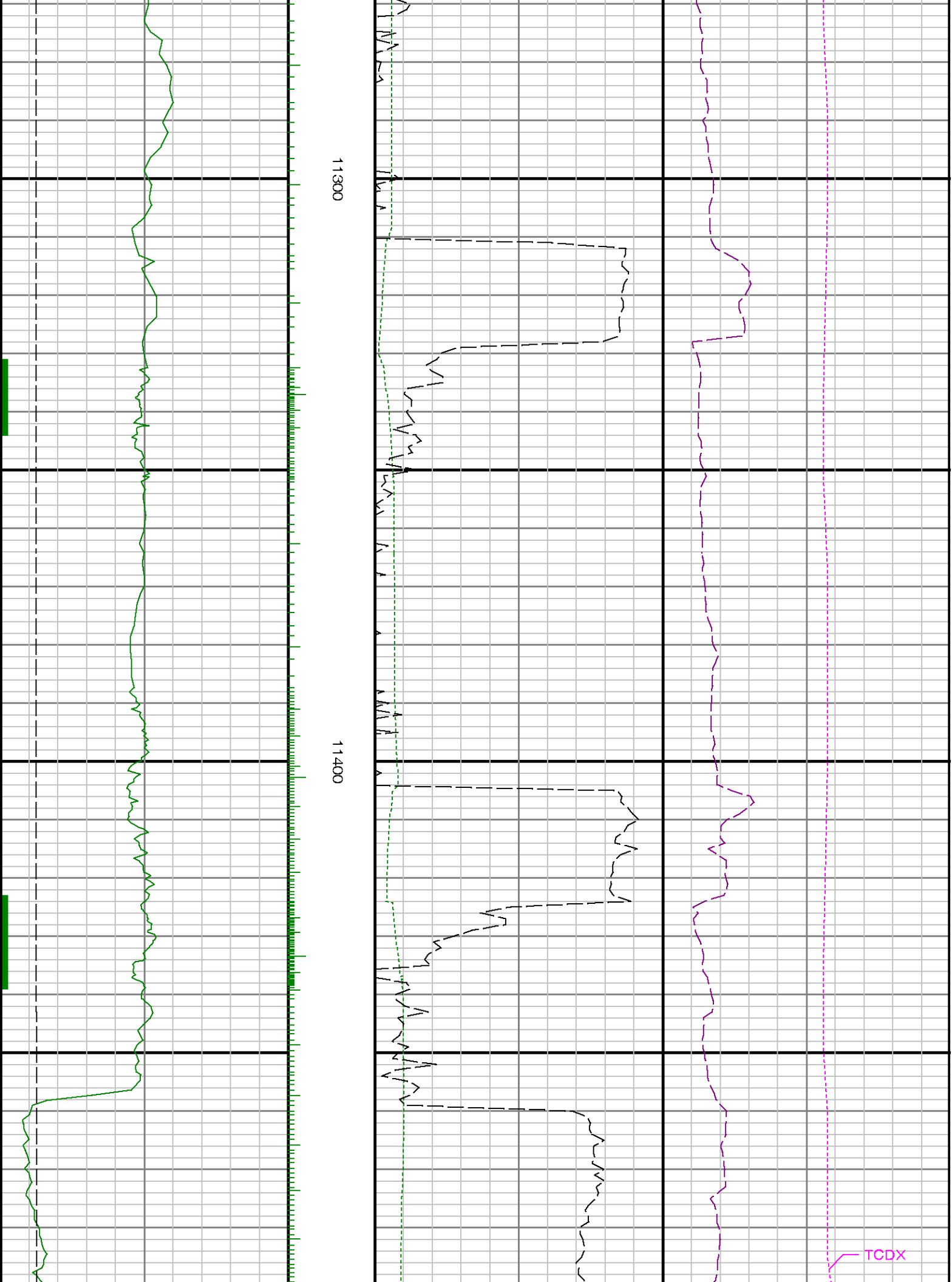
11000

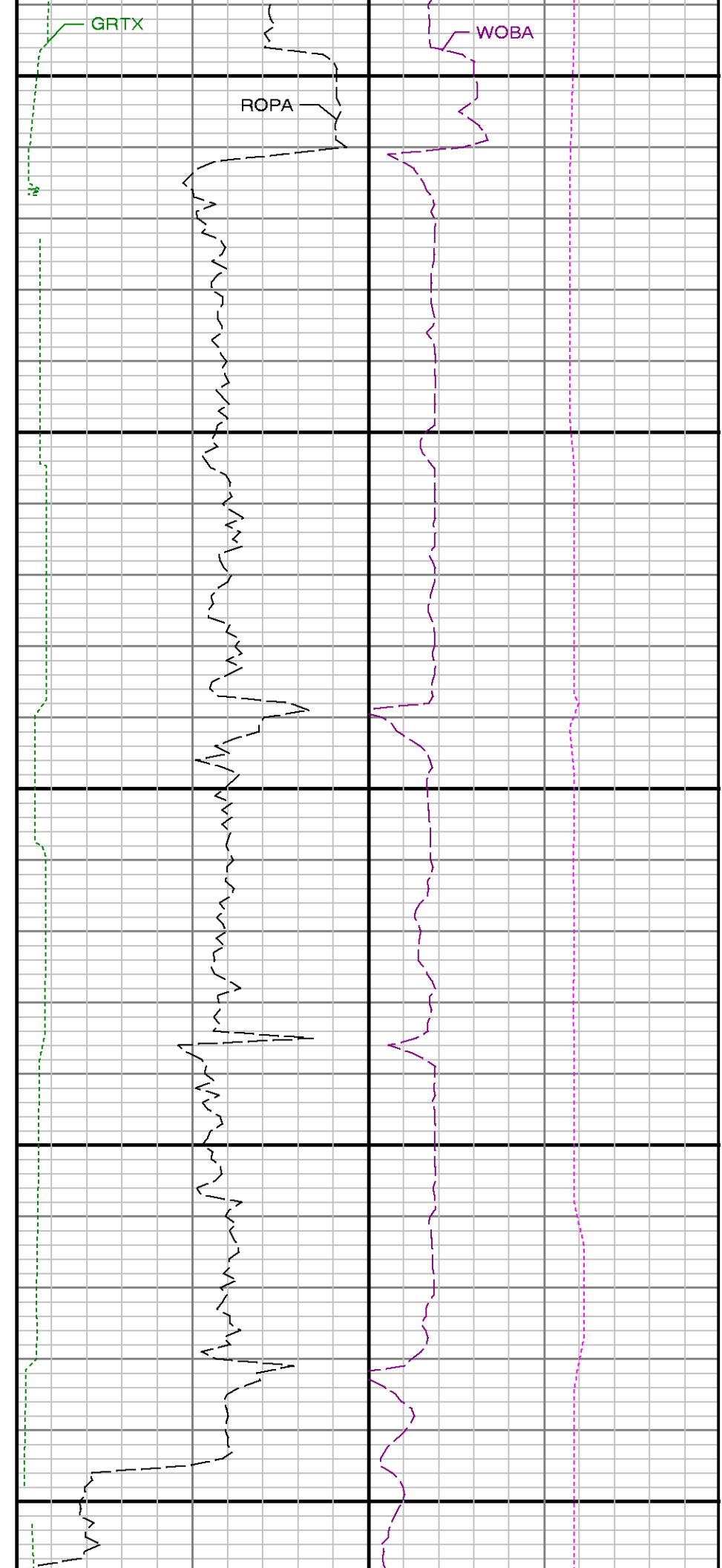
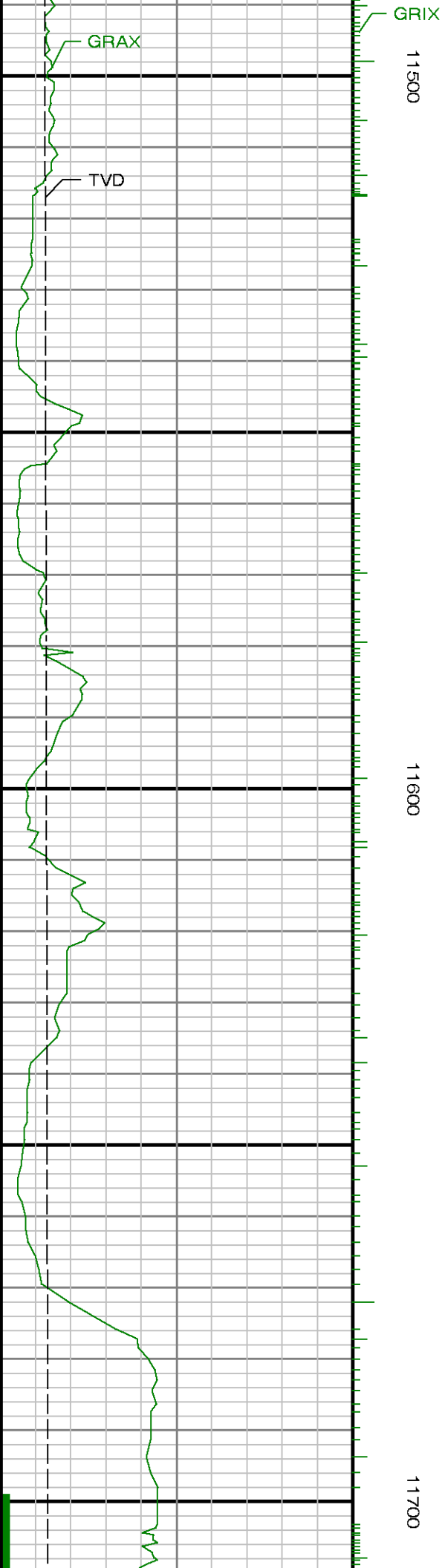


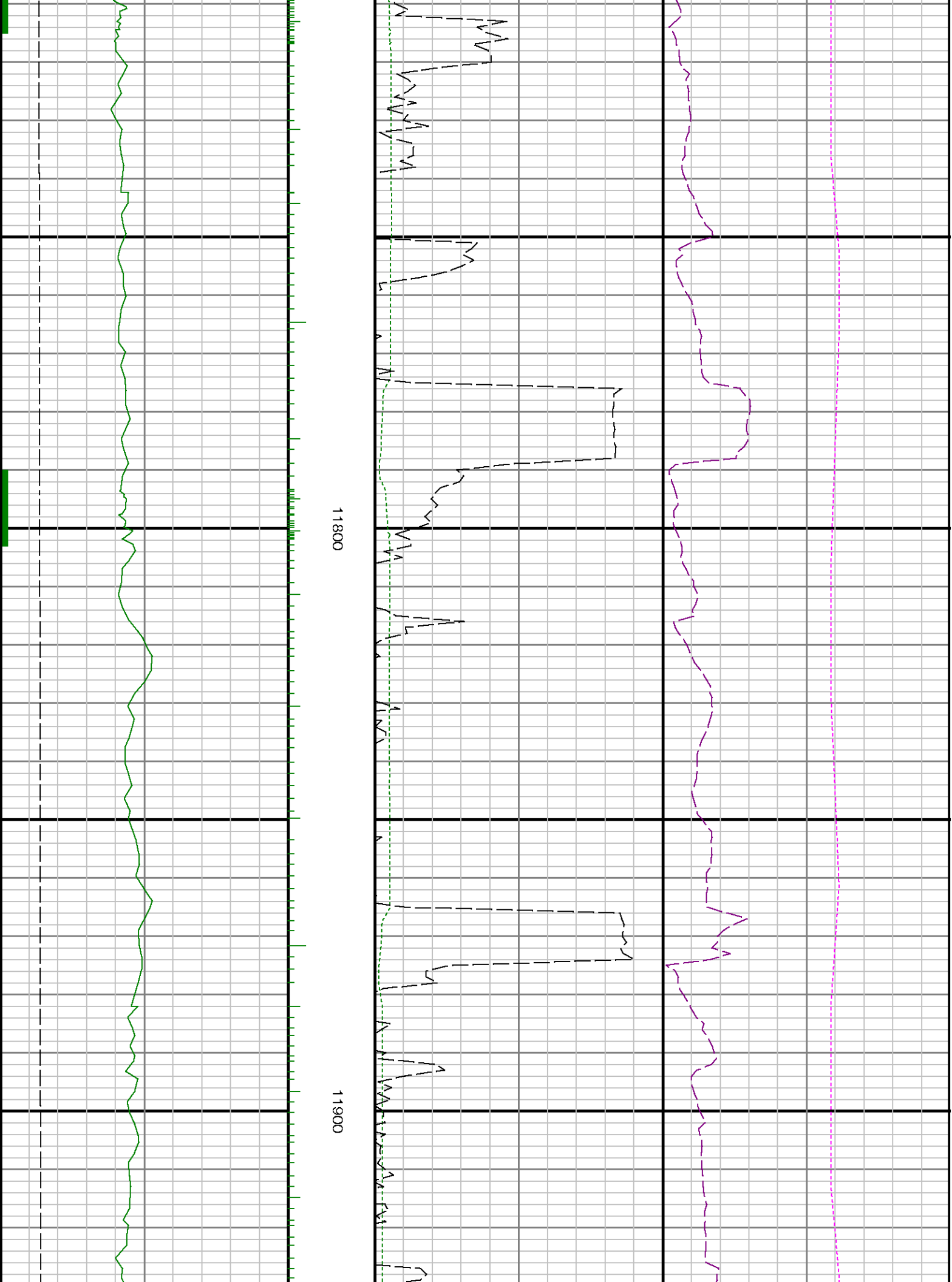


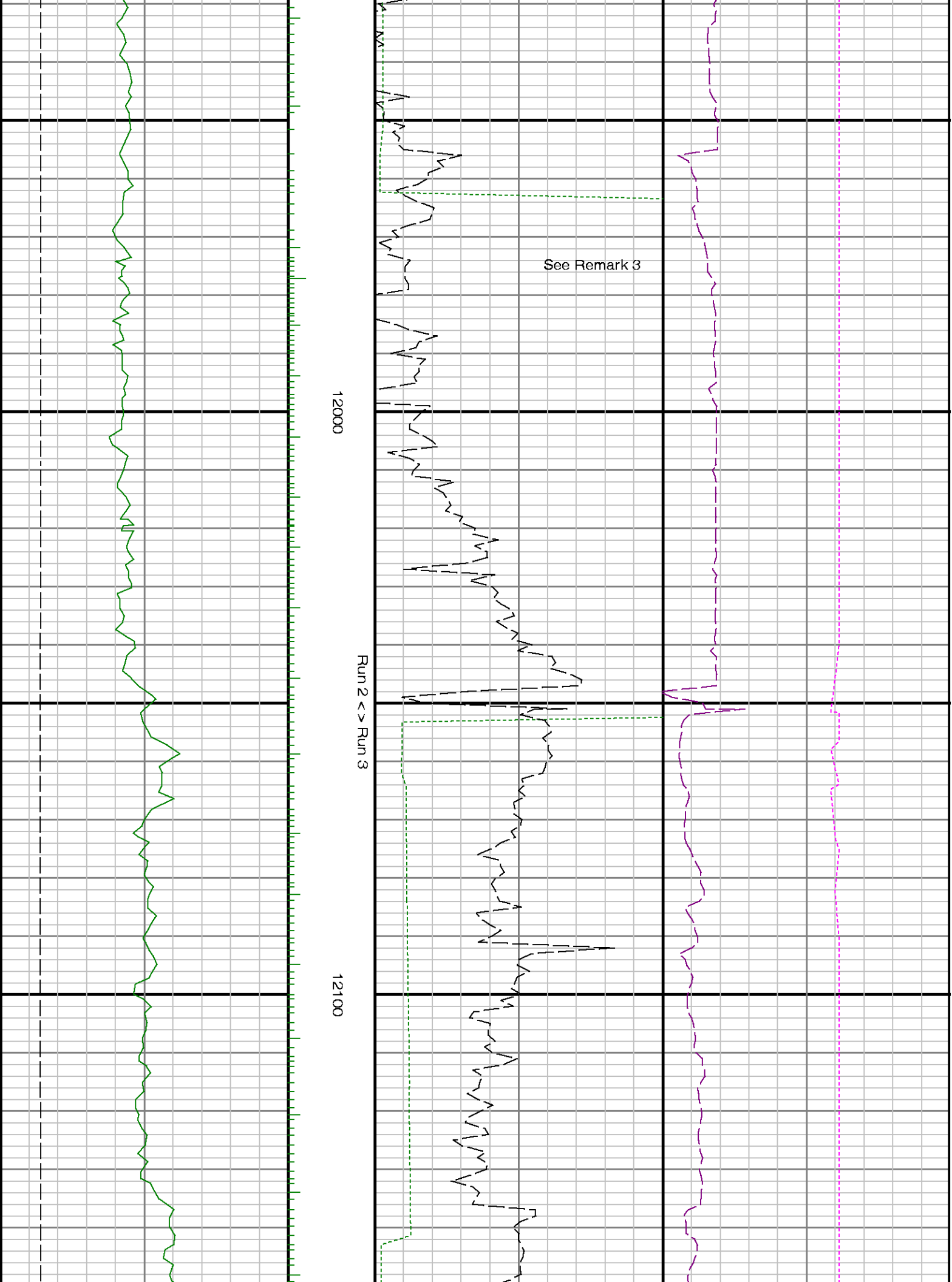
11100

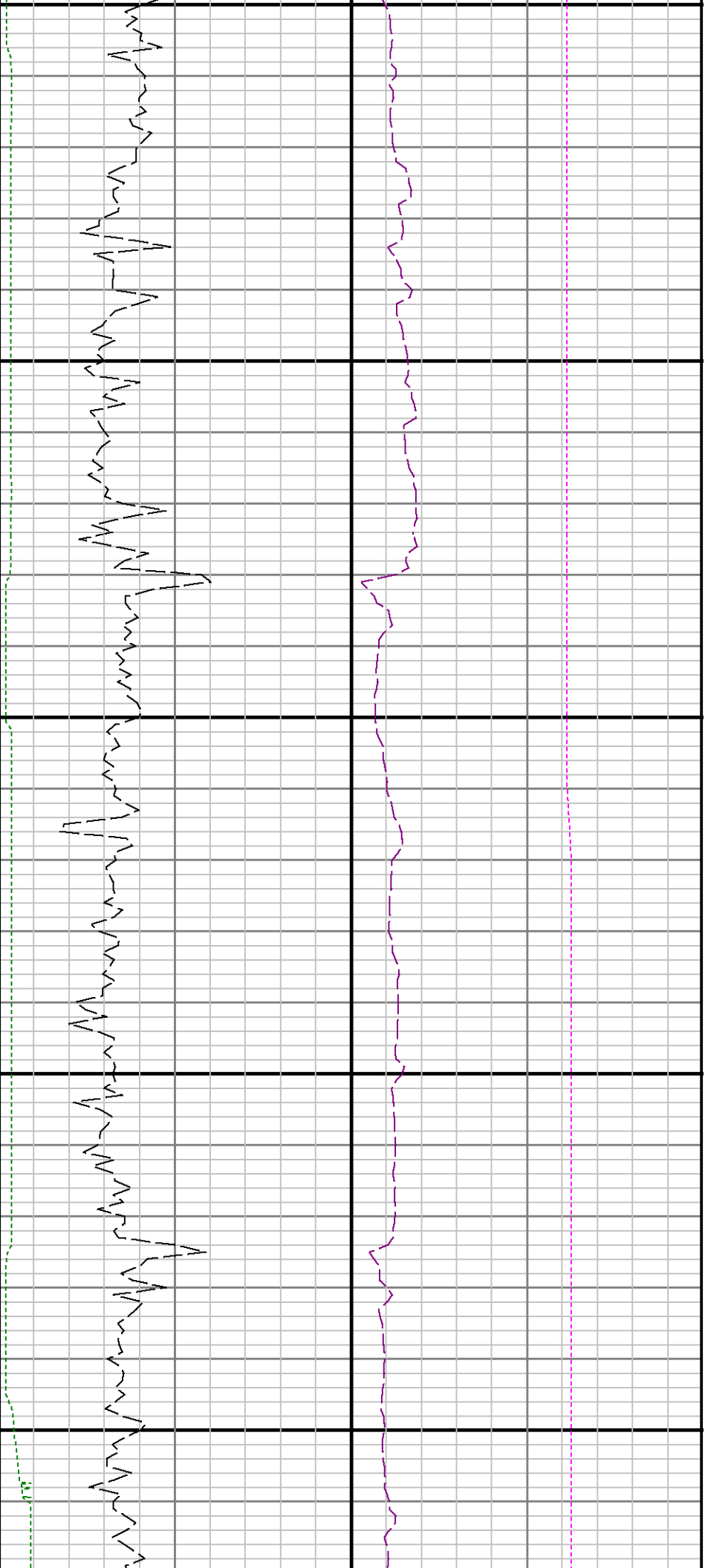
11200





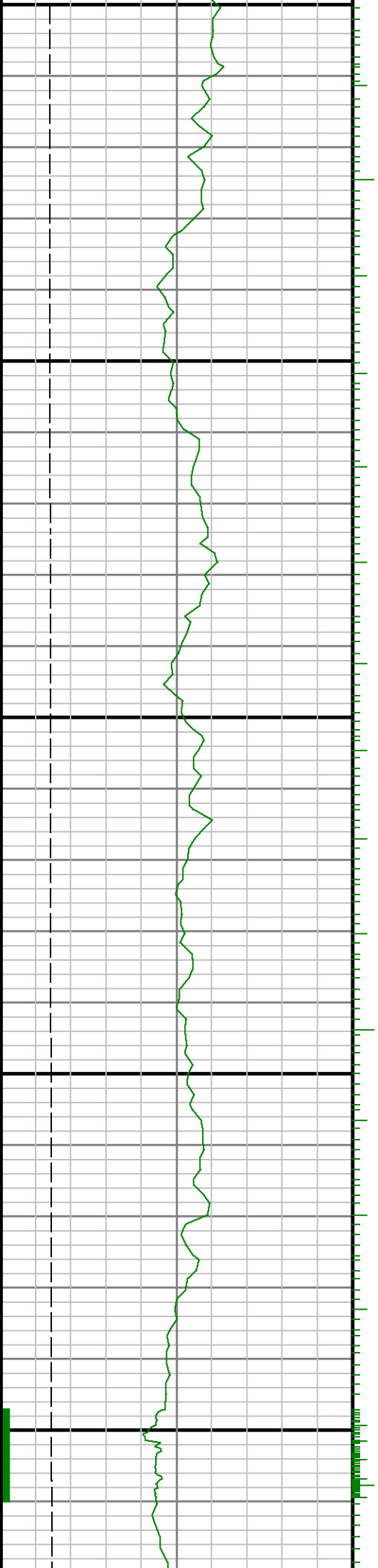


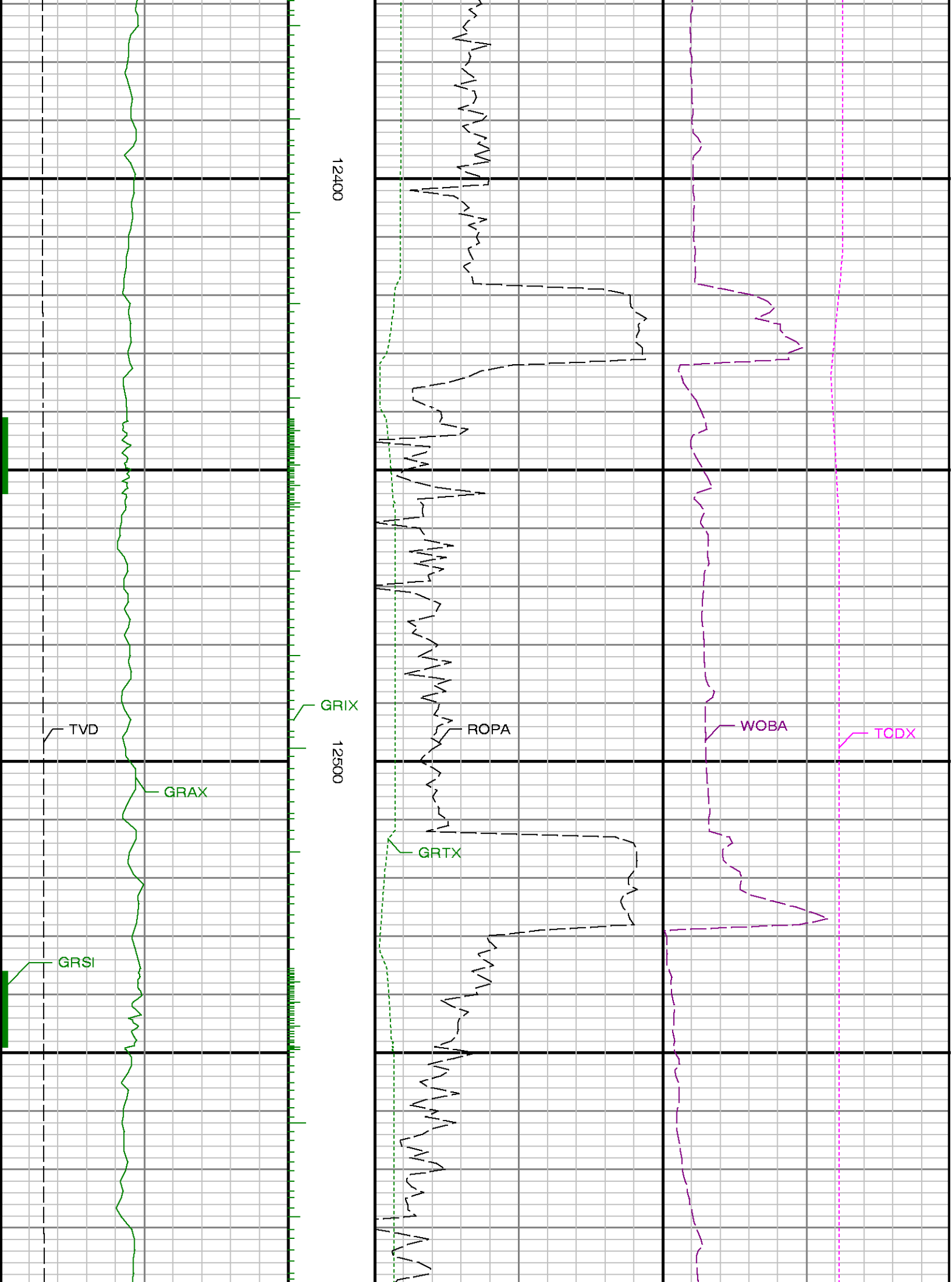


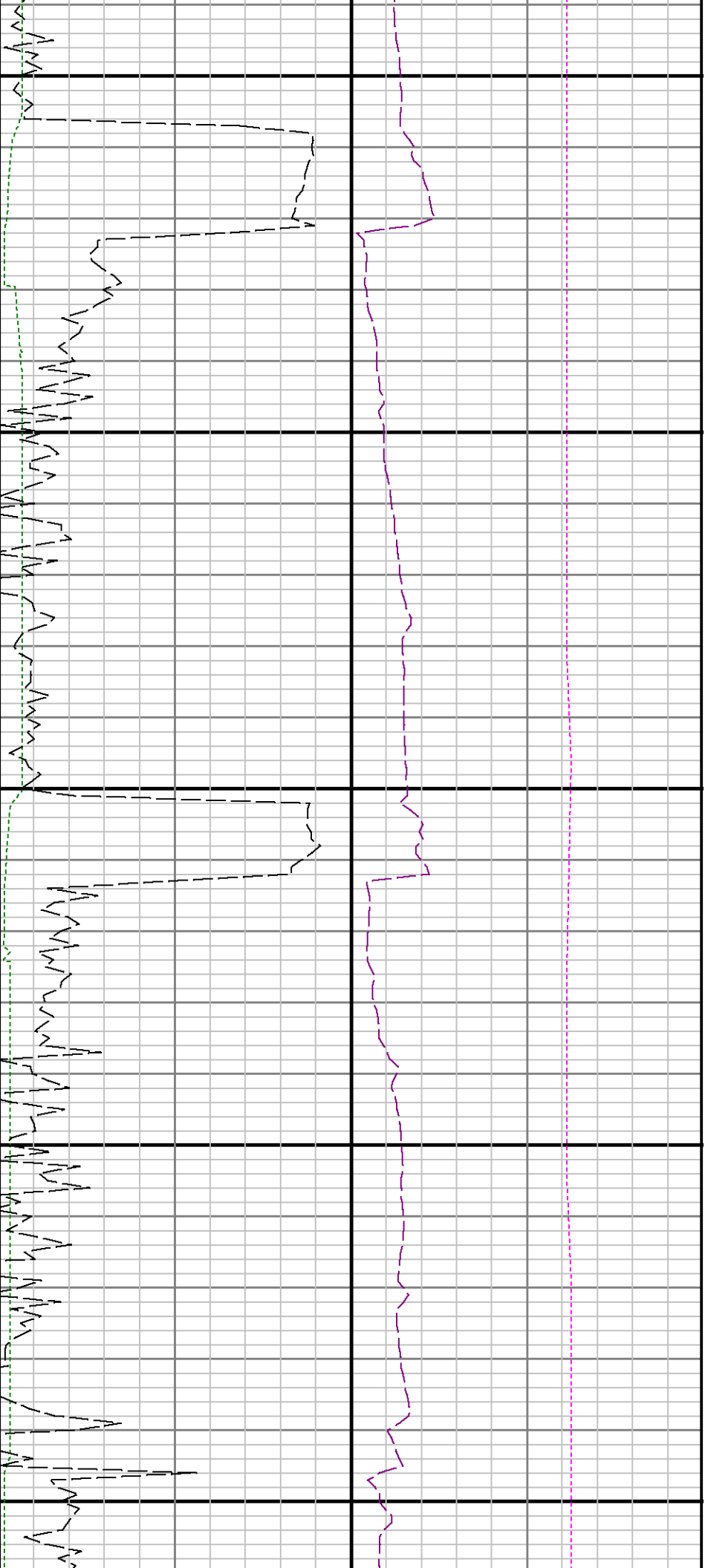


12200

12300



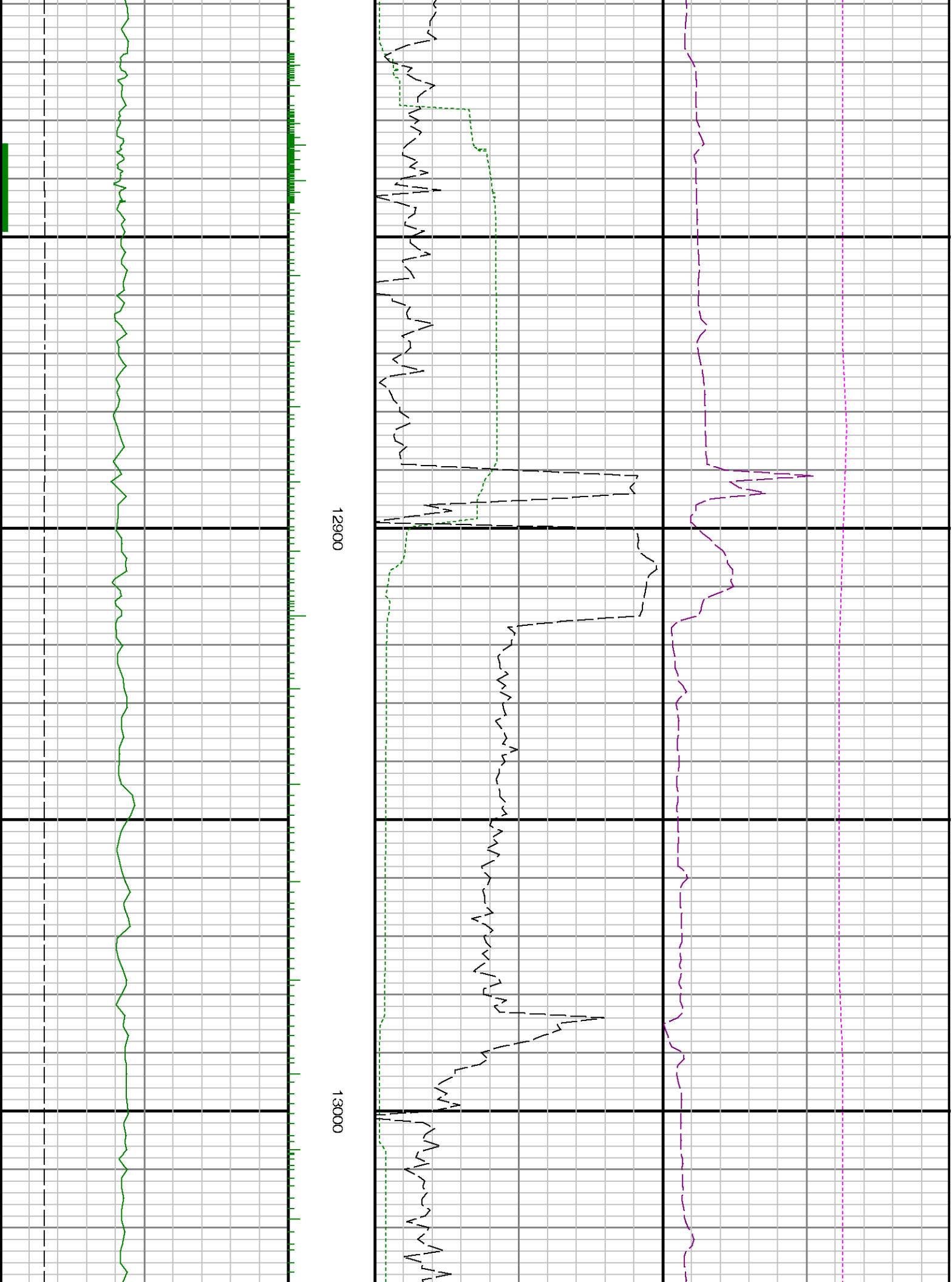


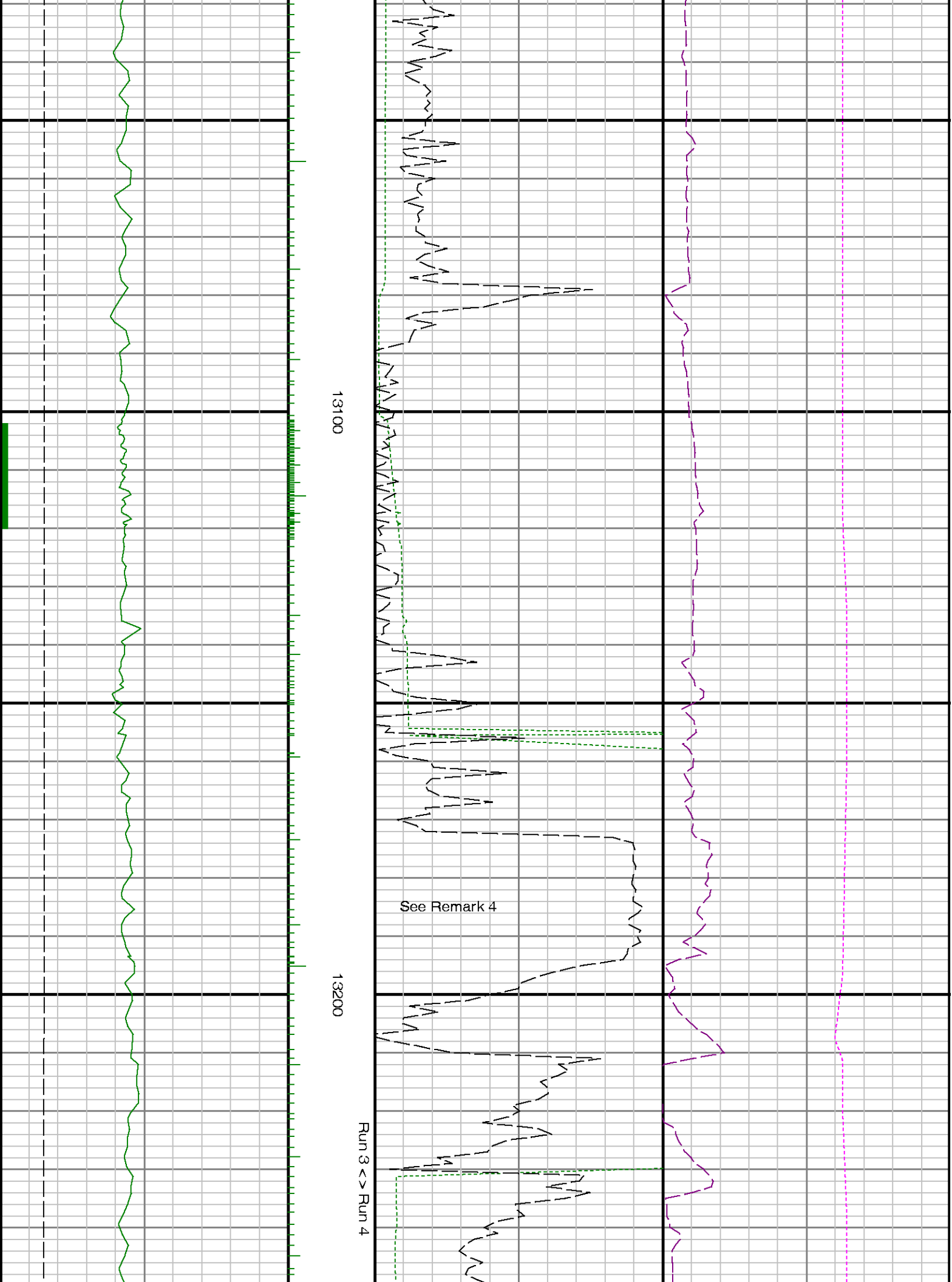


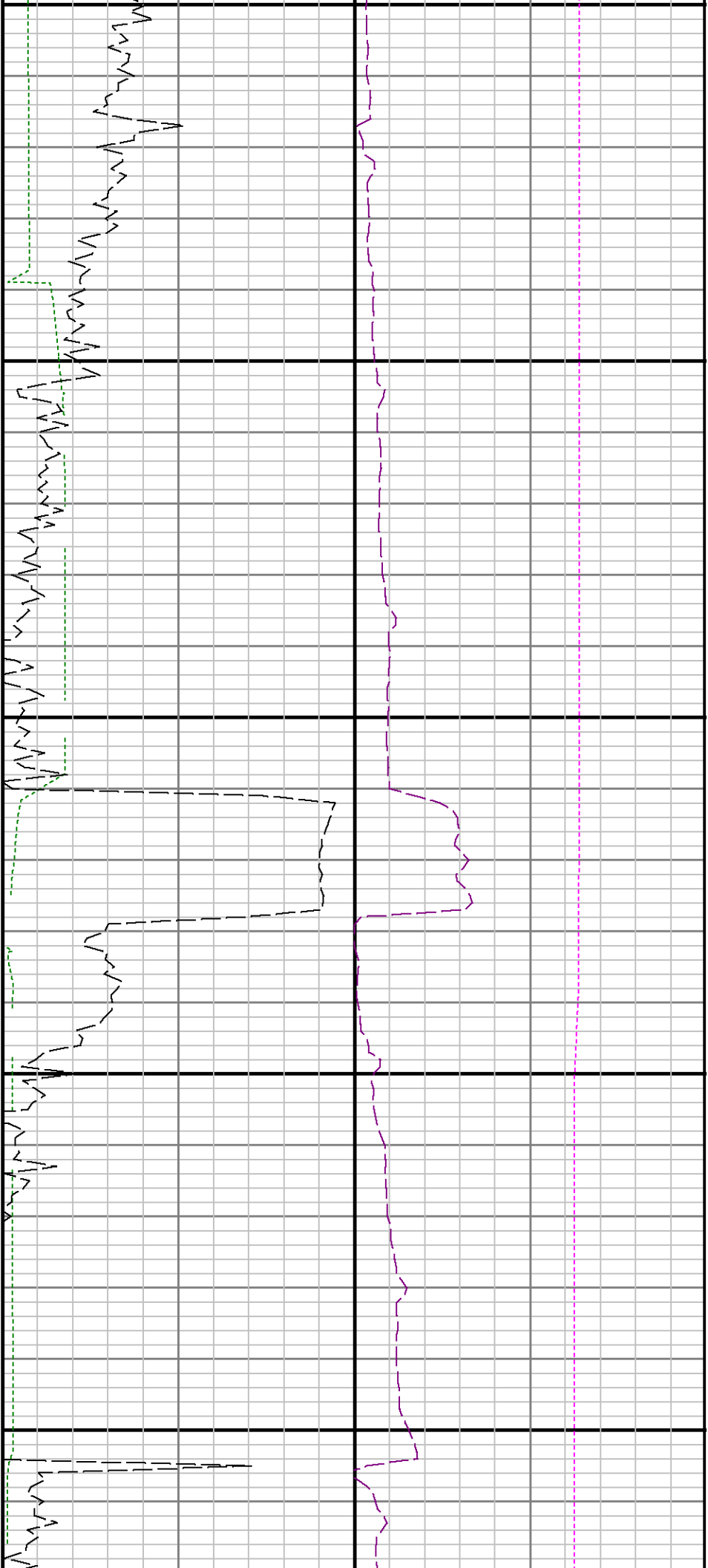
12600

12700

12800

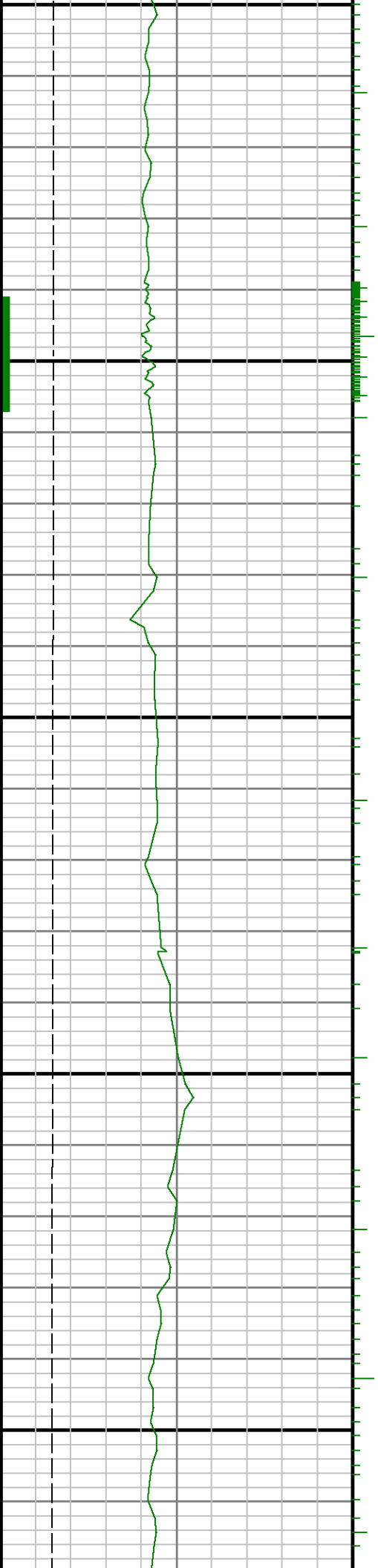


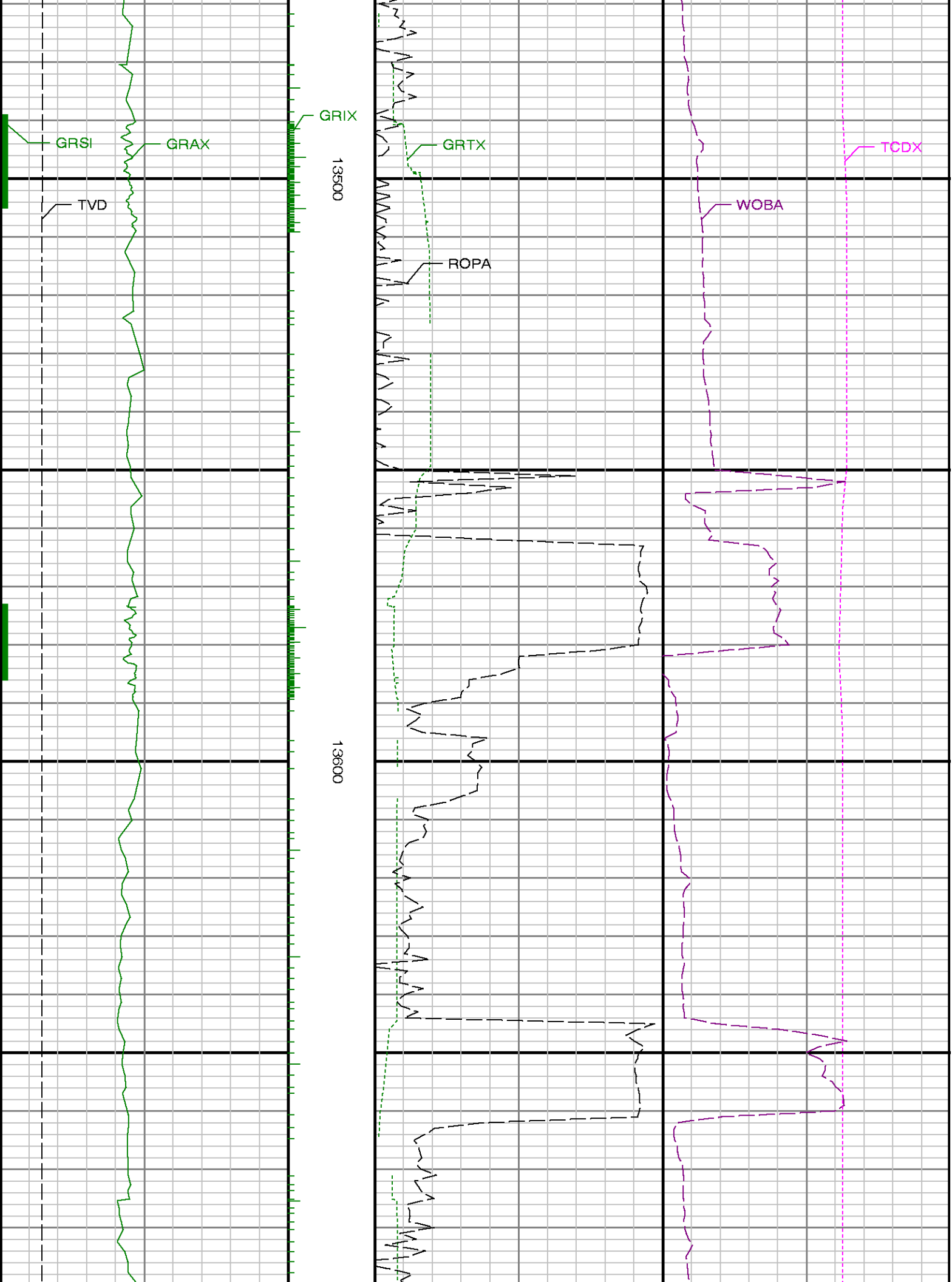


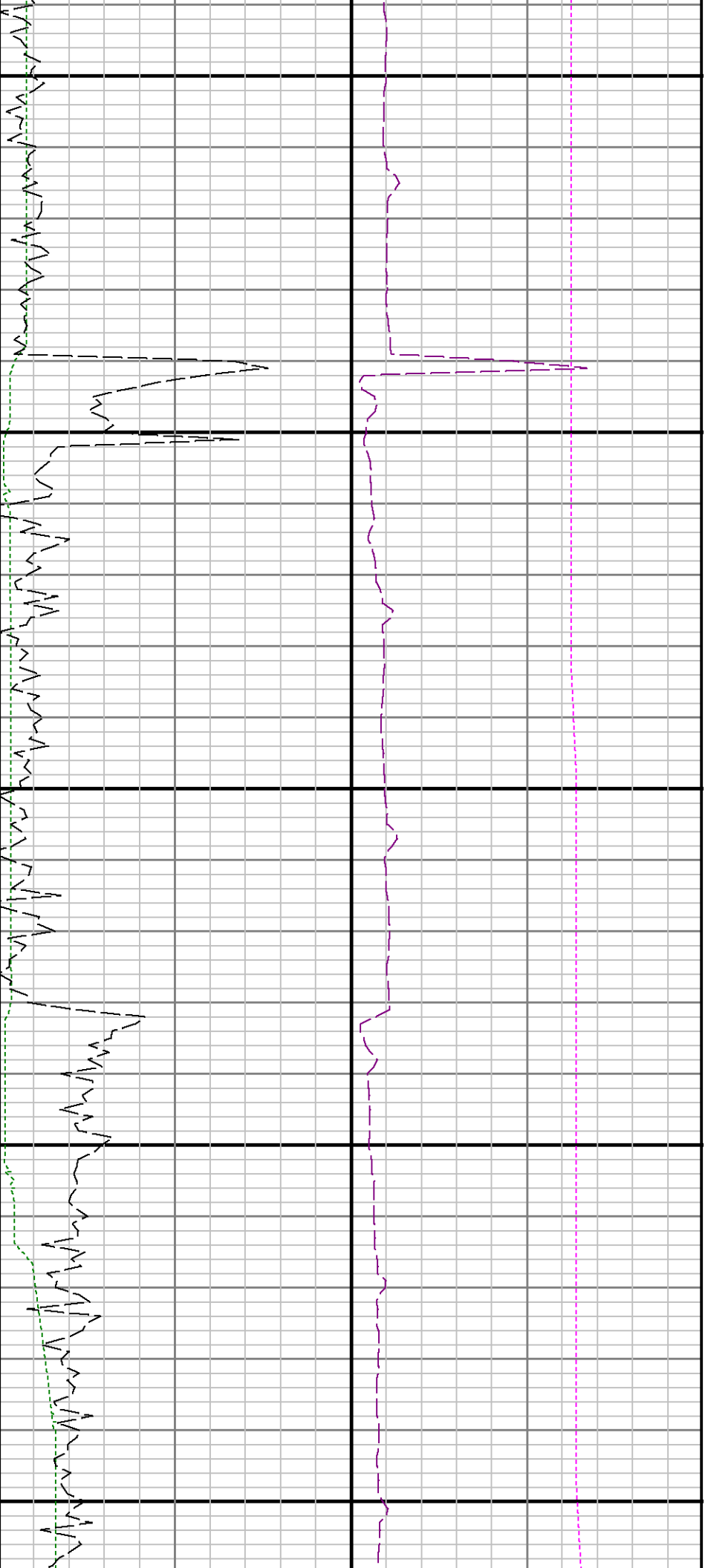


13300

13400



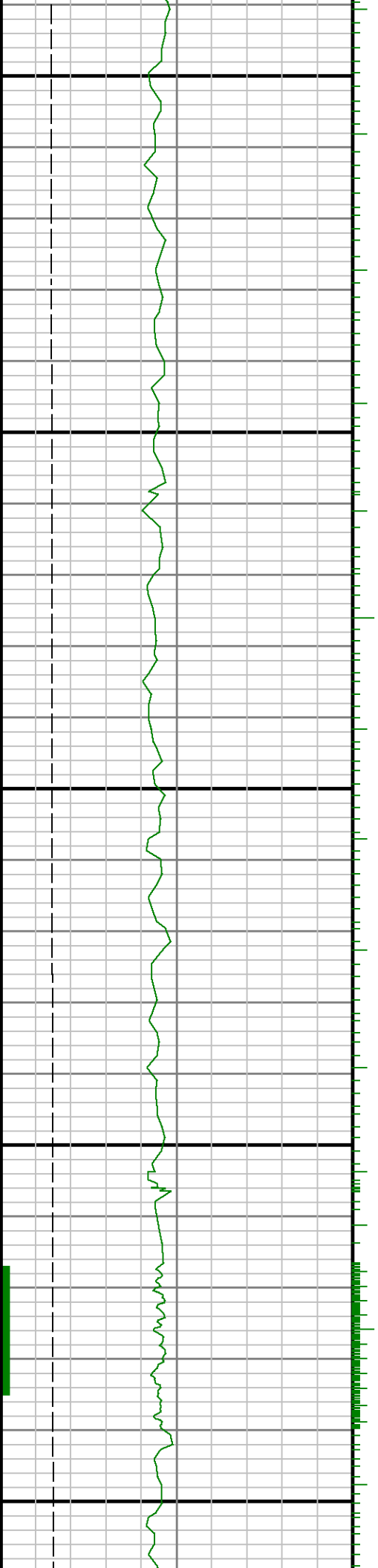


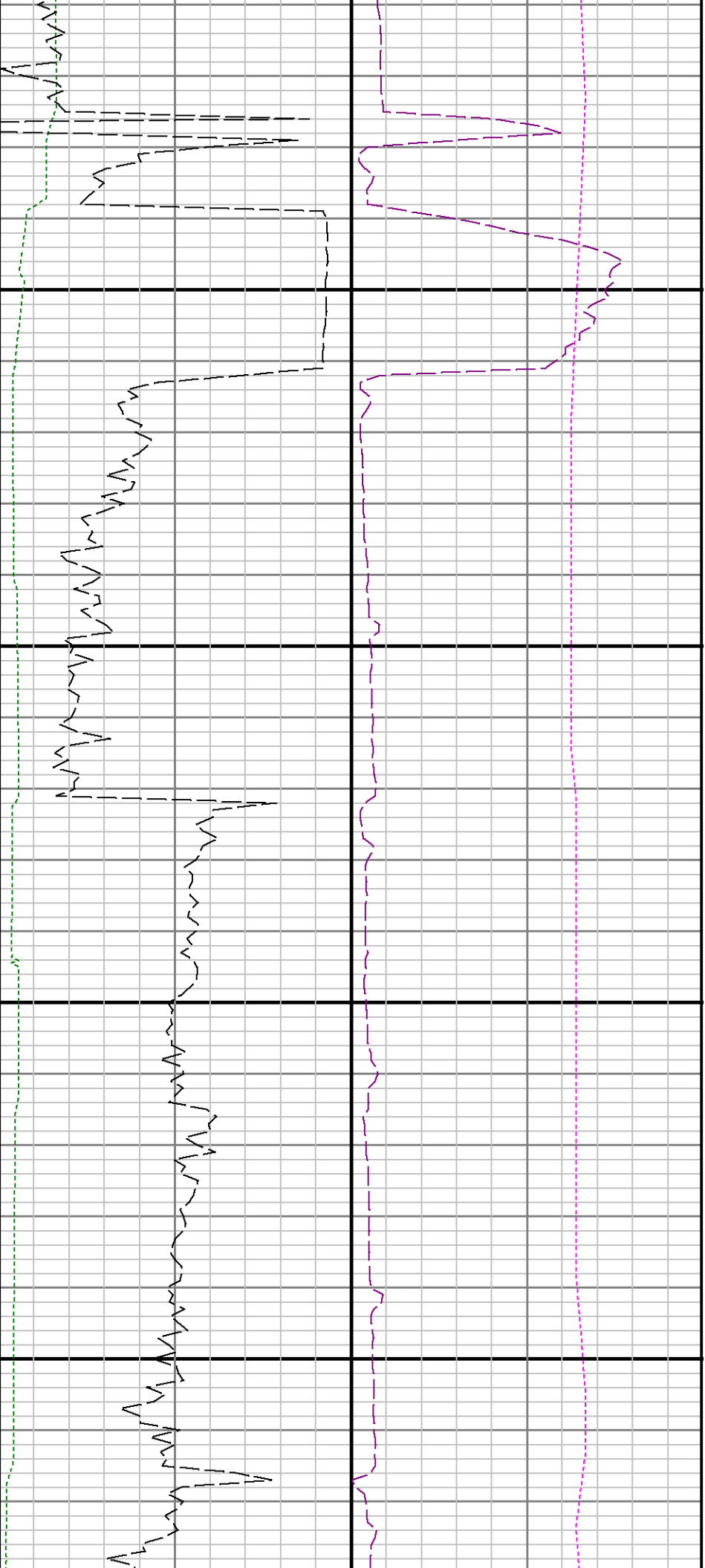


13700

13800

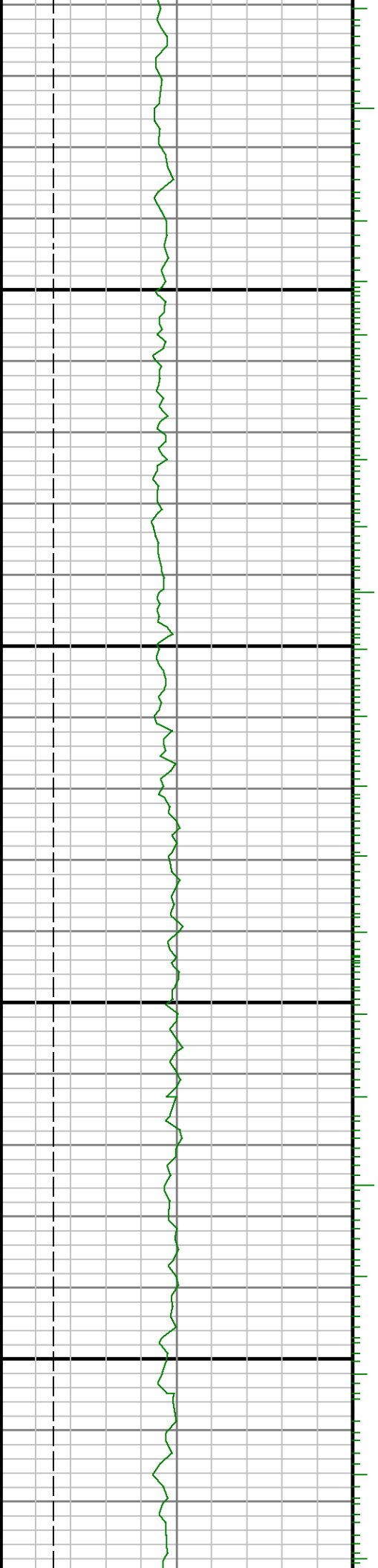
13900

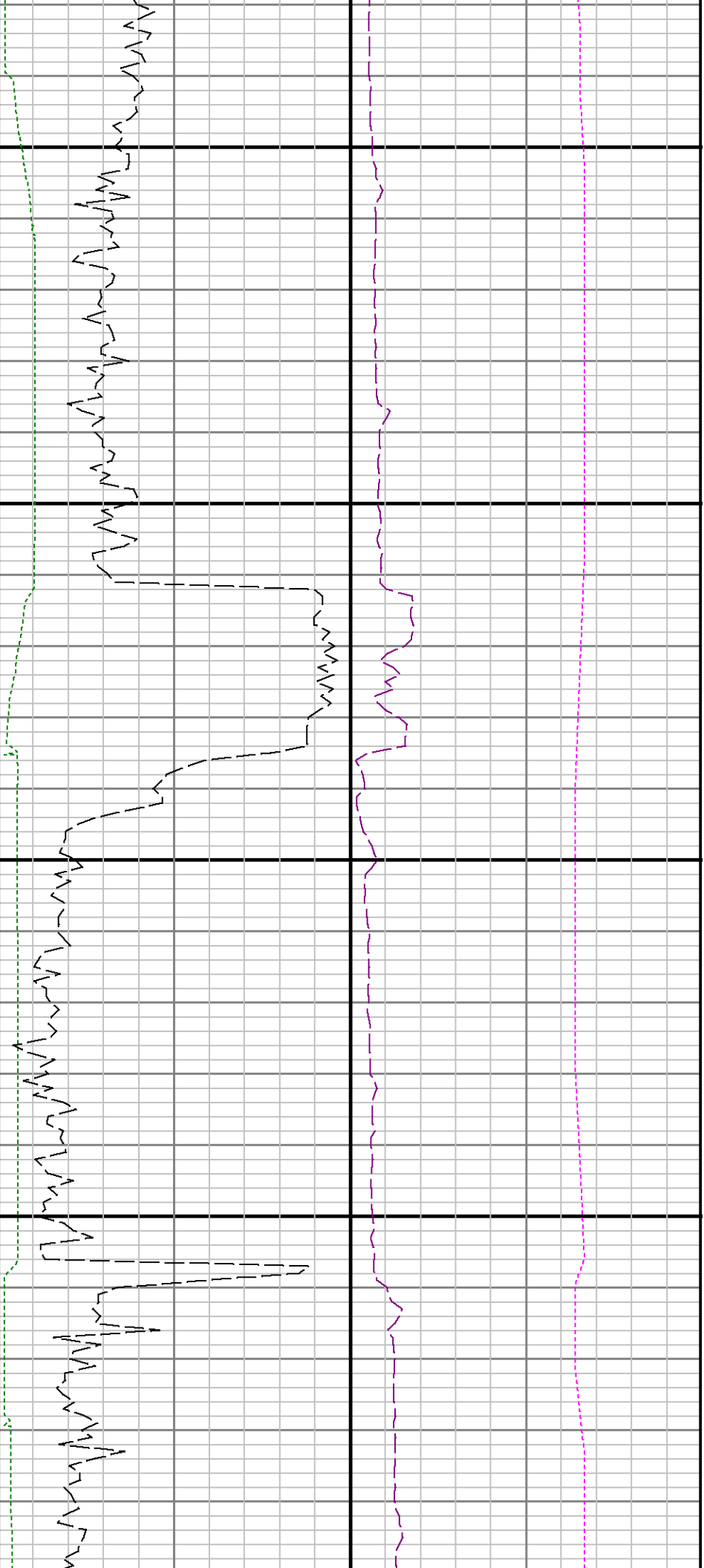




14000

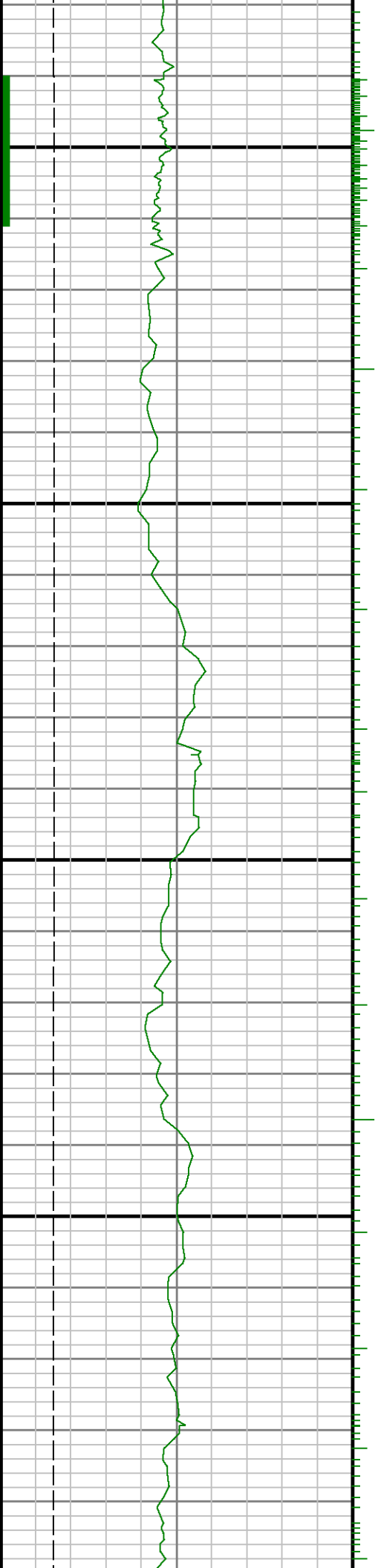
14100

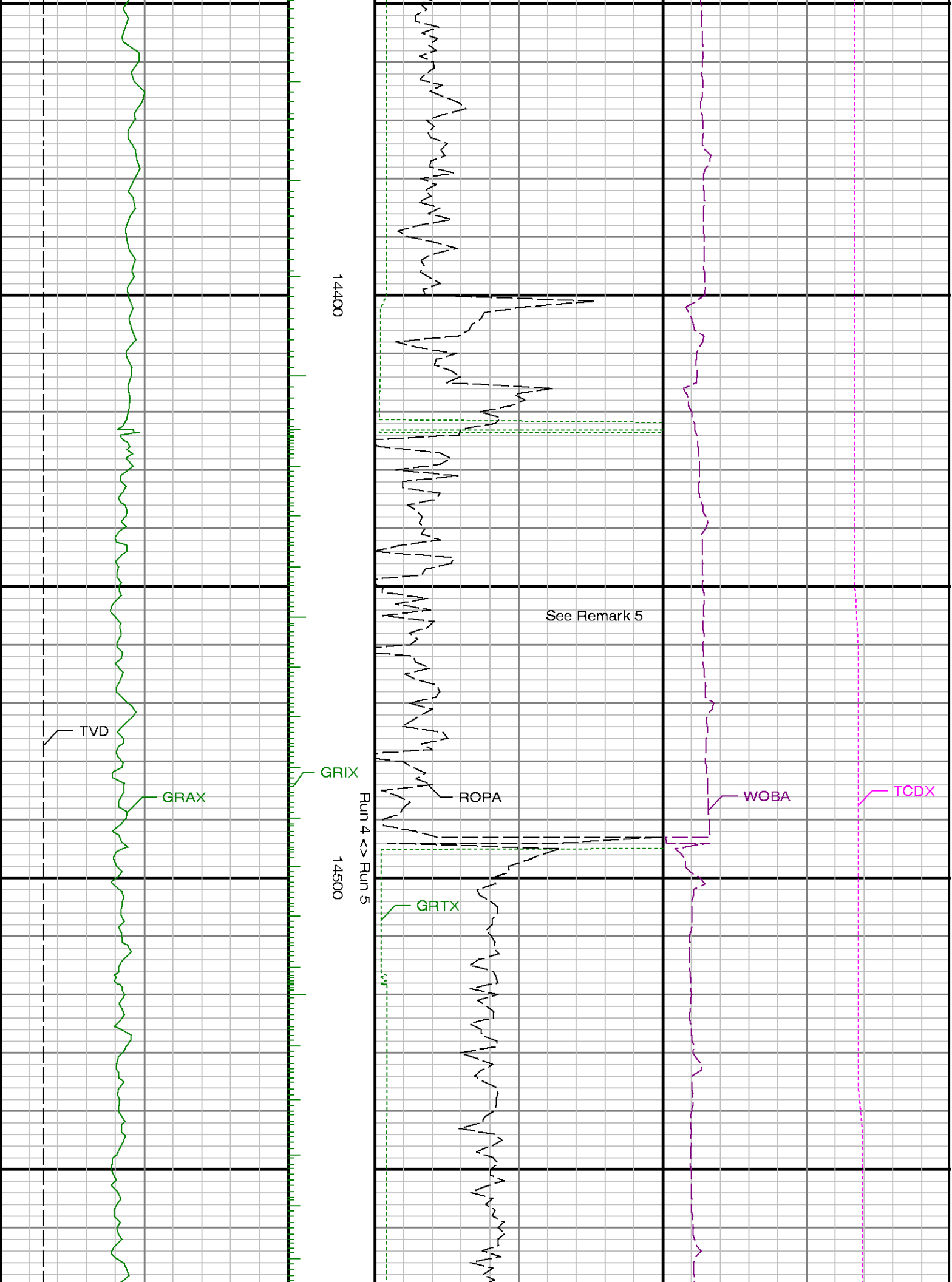


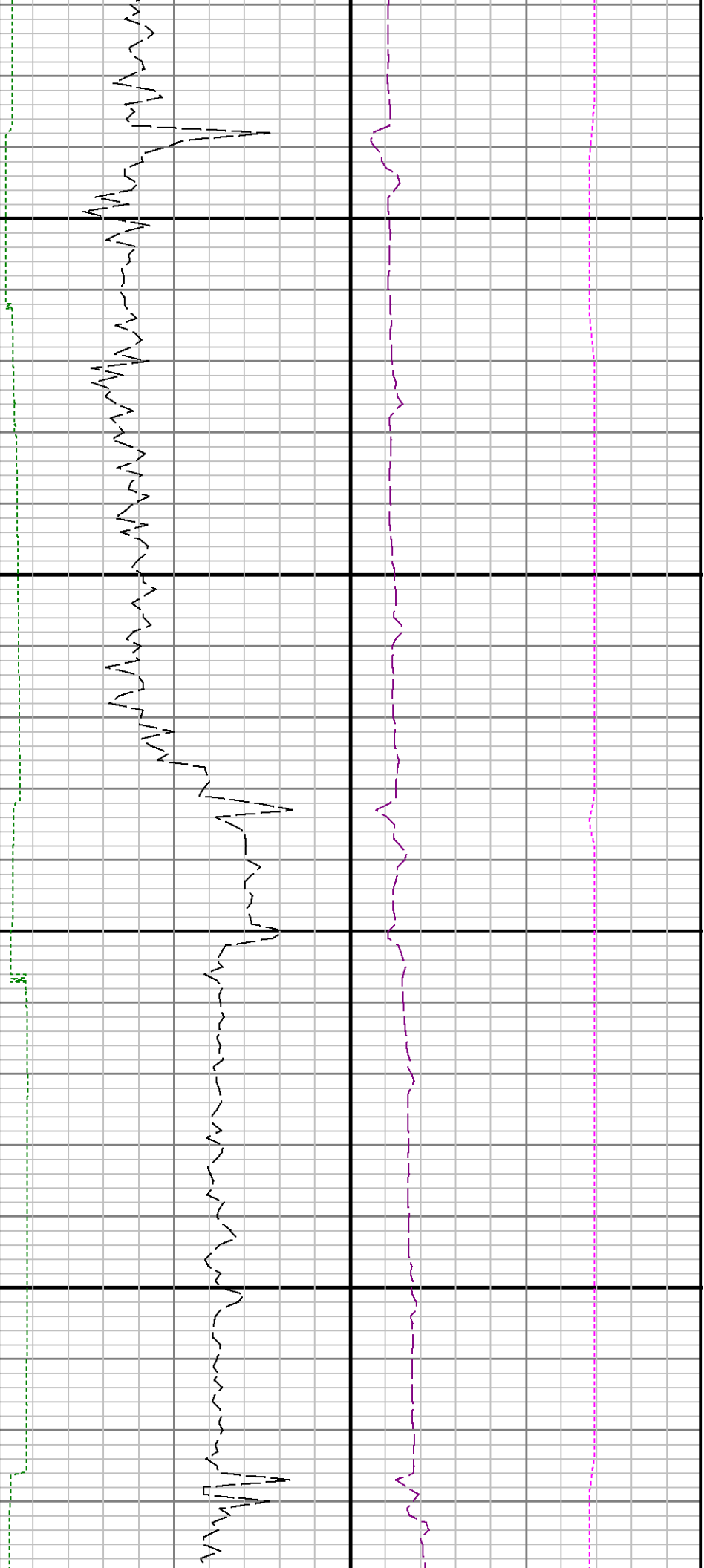


14200

14300

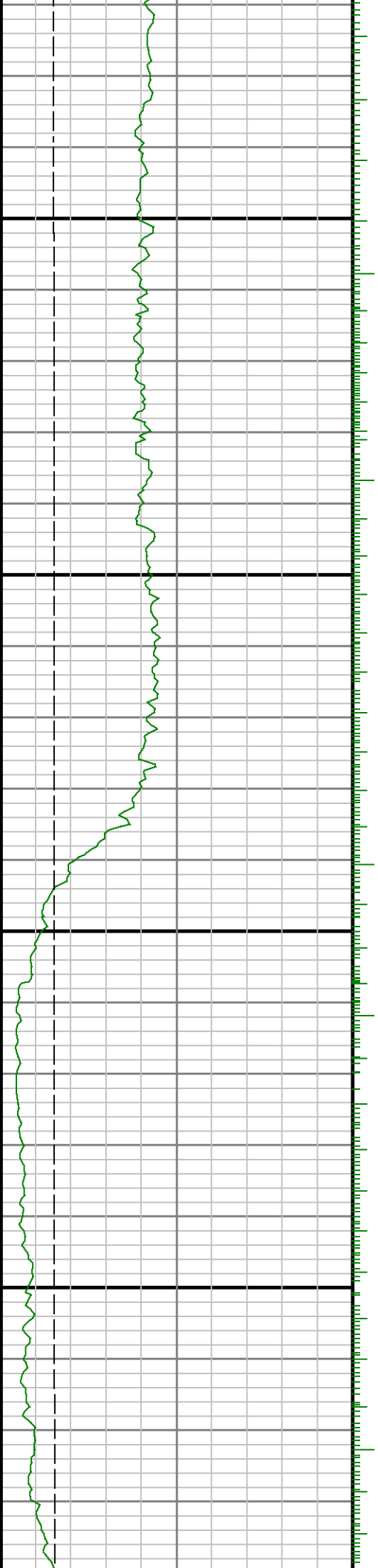


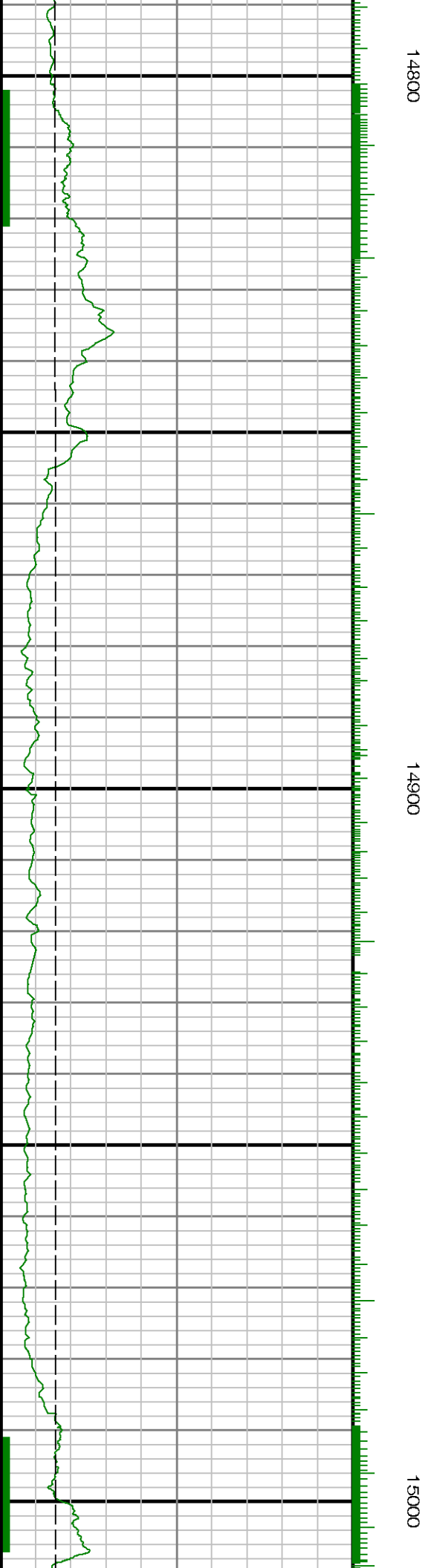


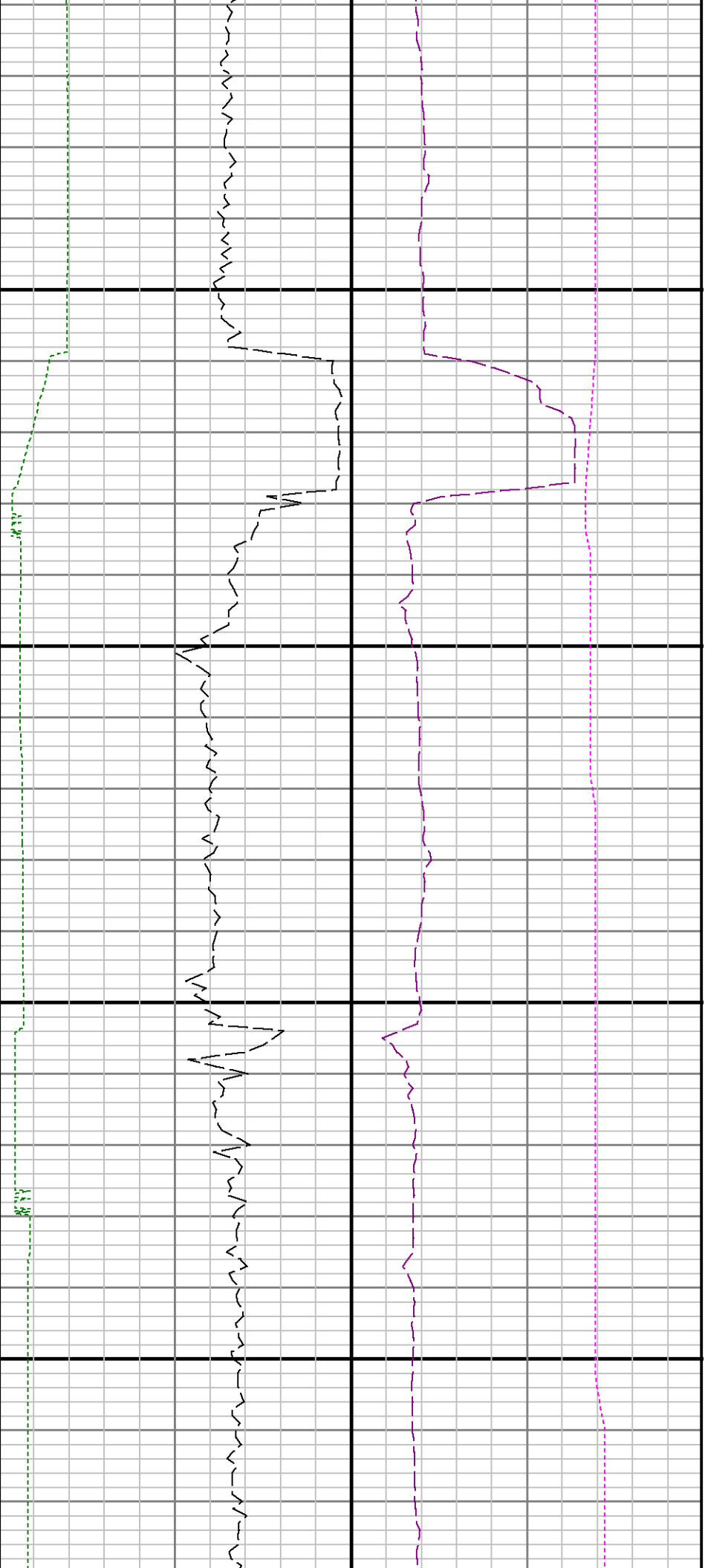


14600

14700

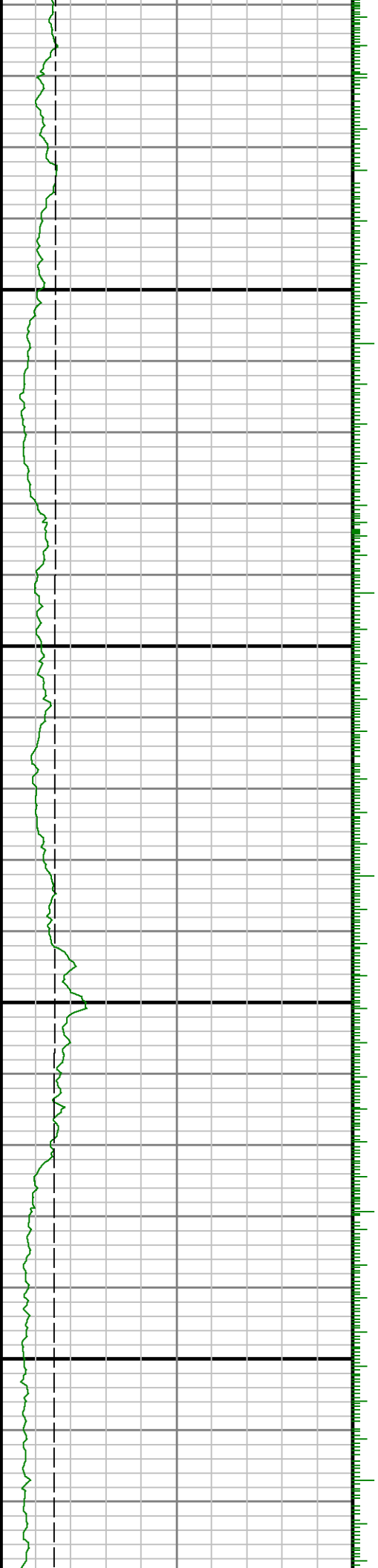


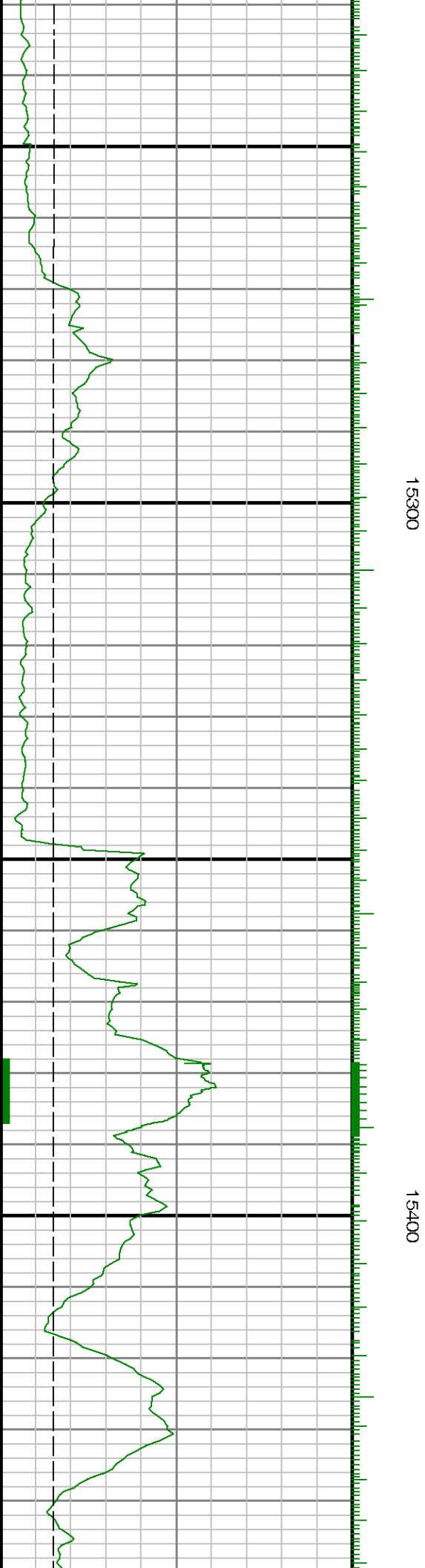
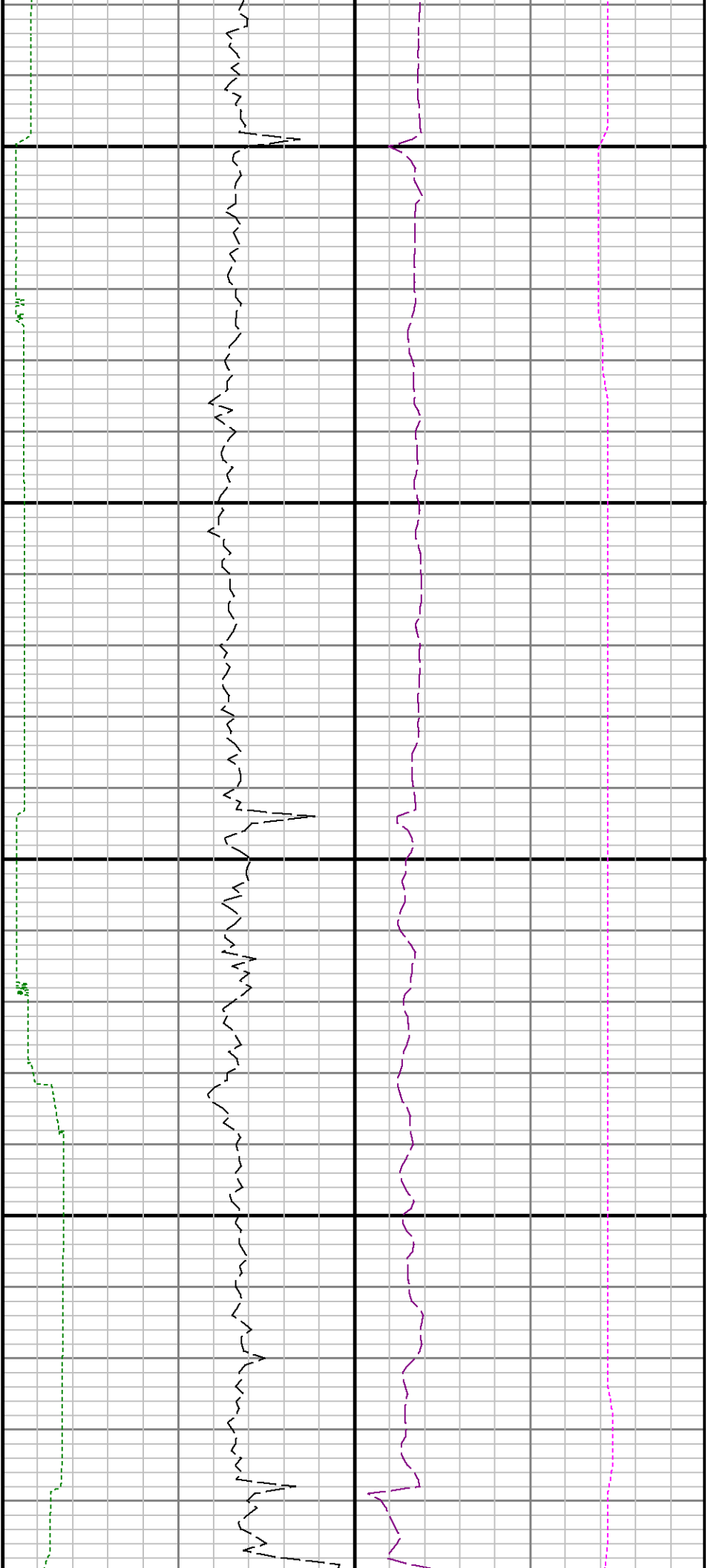


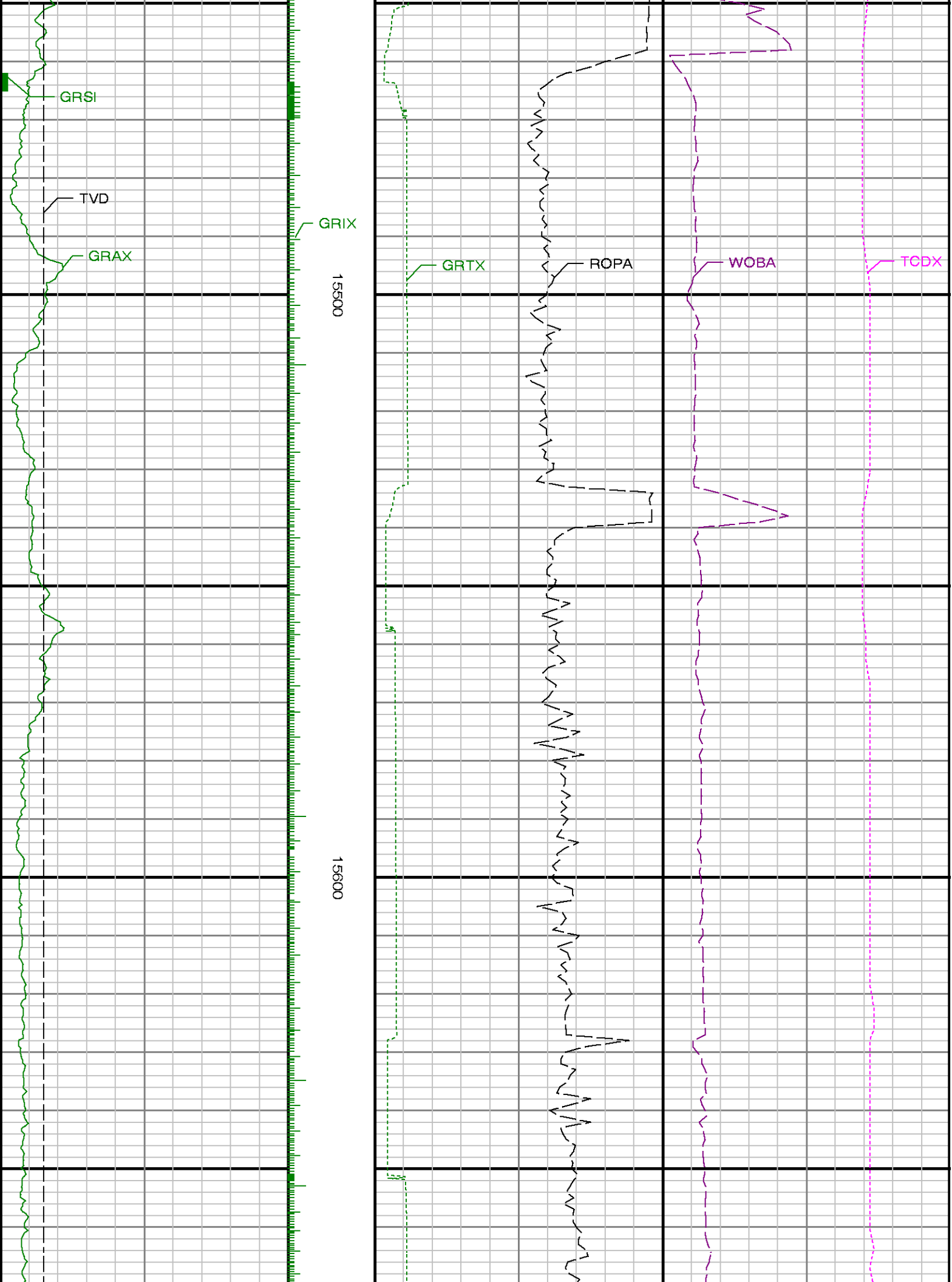


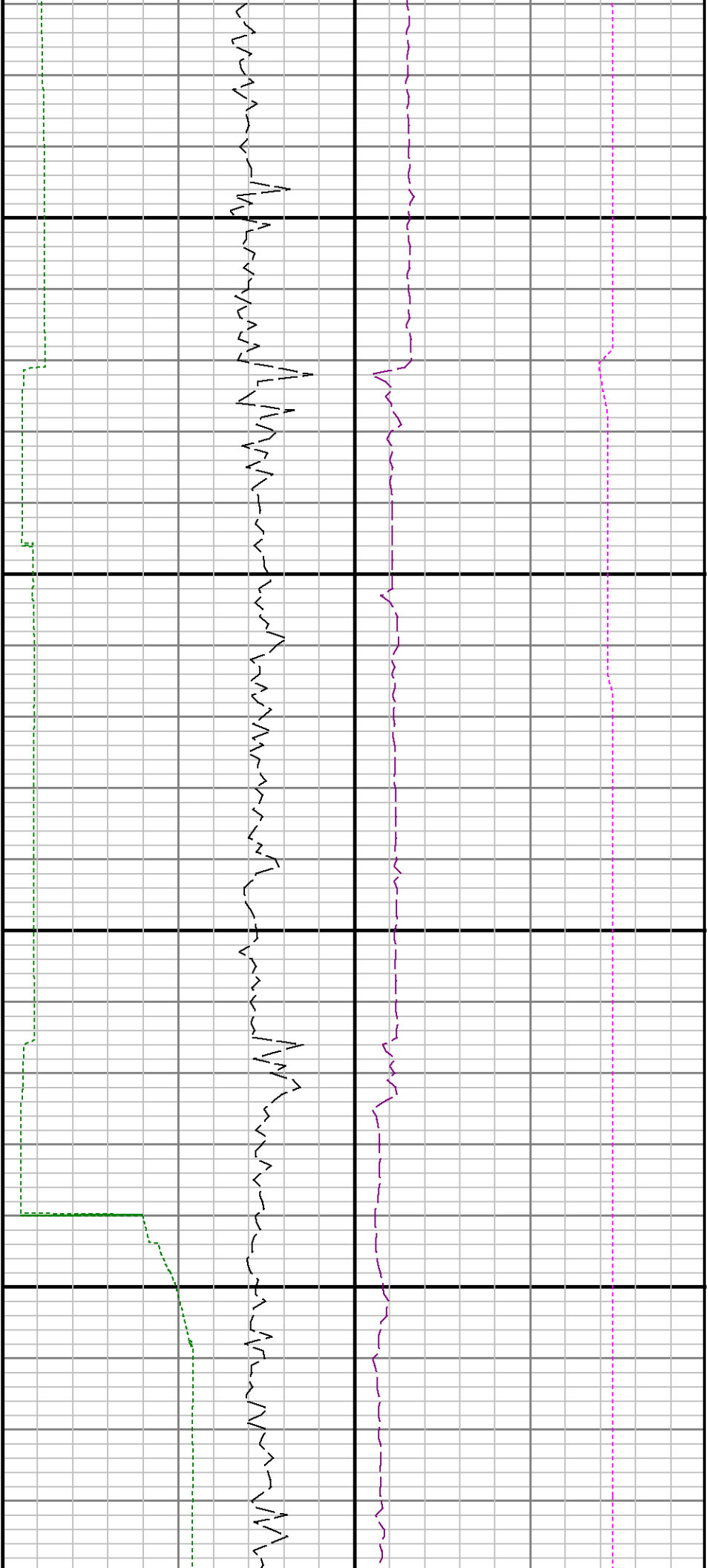
15100

15200



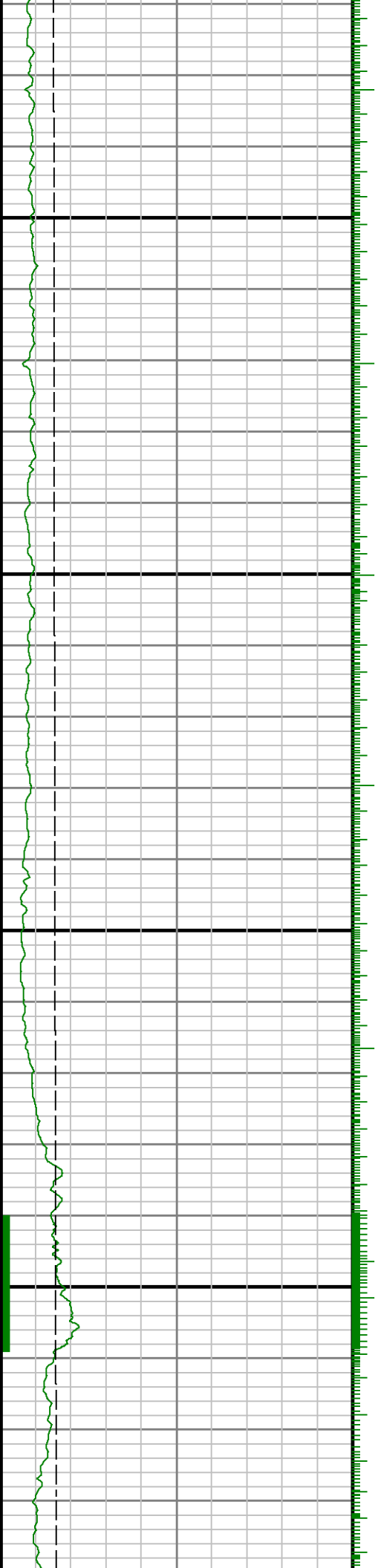






15700

15800

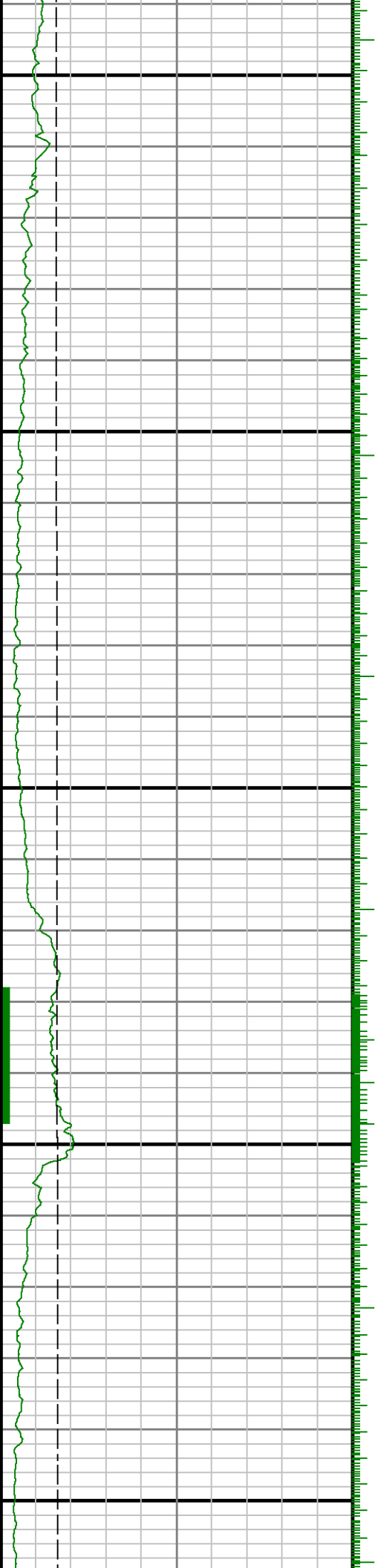


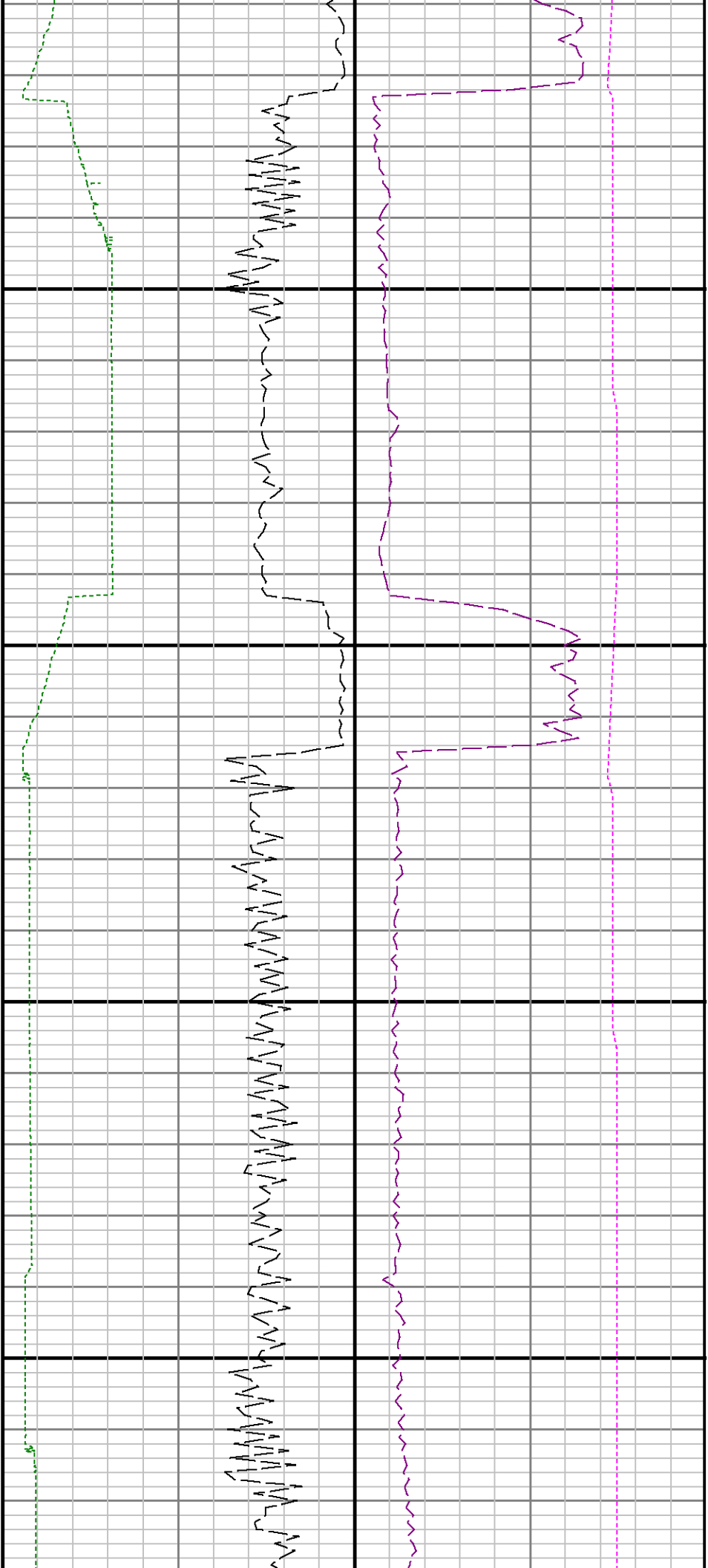


15900

16000

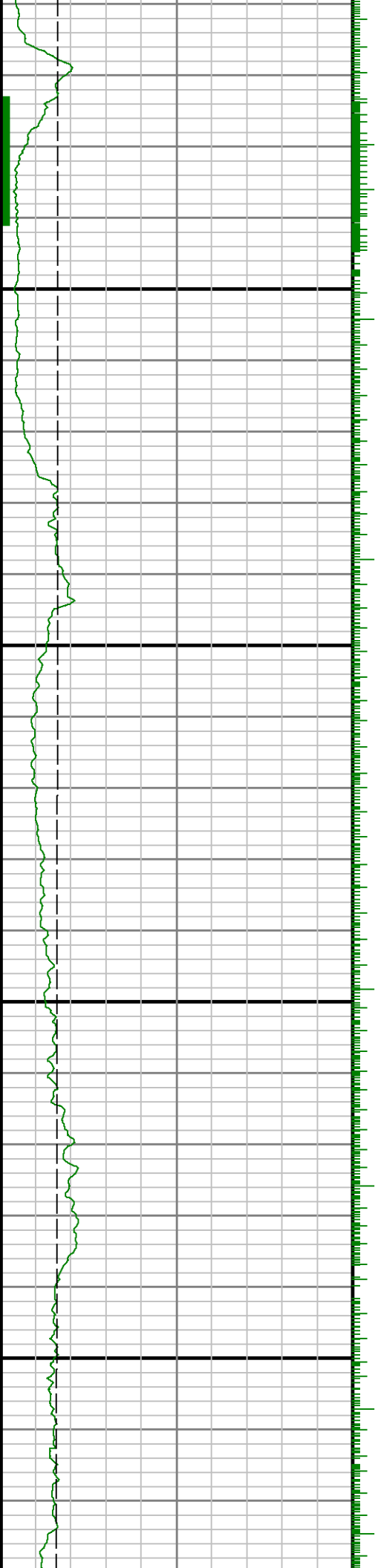
16100

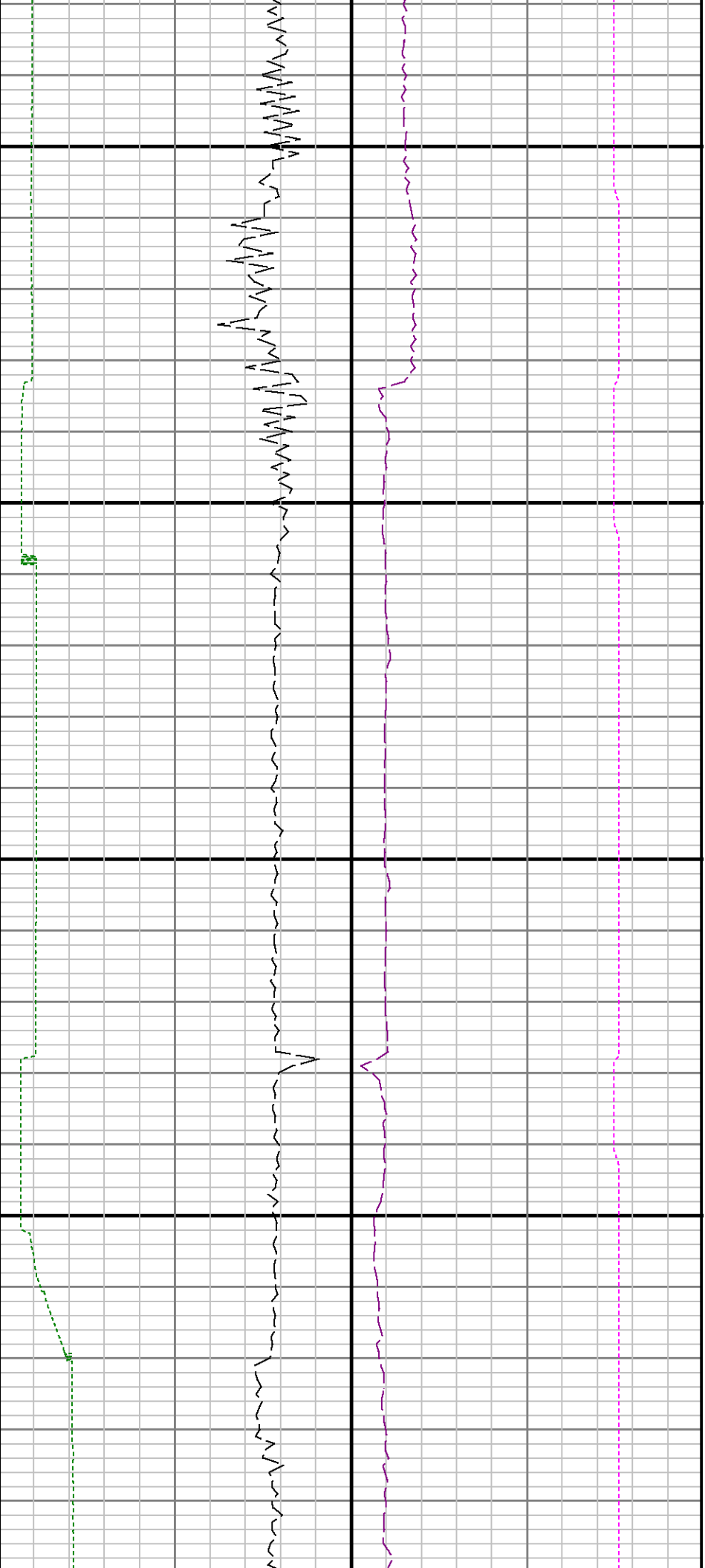




16200

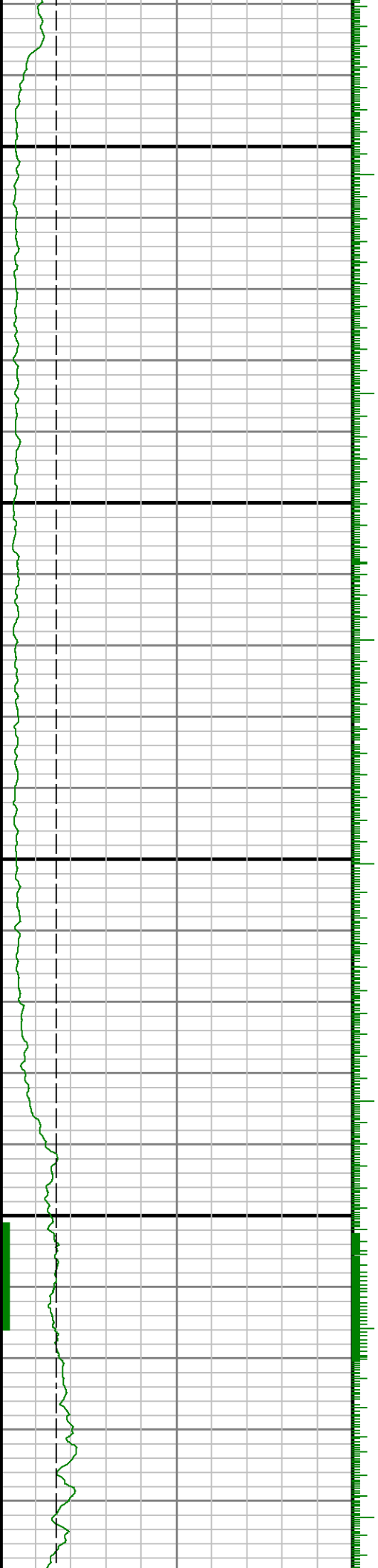
16300

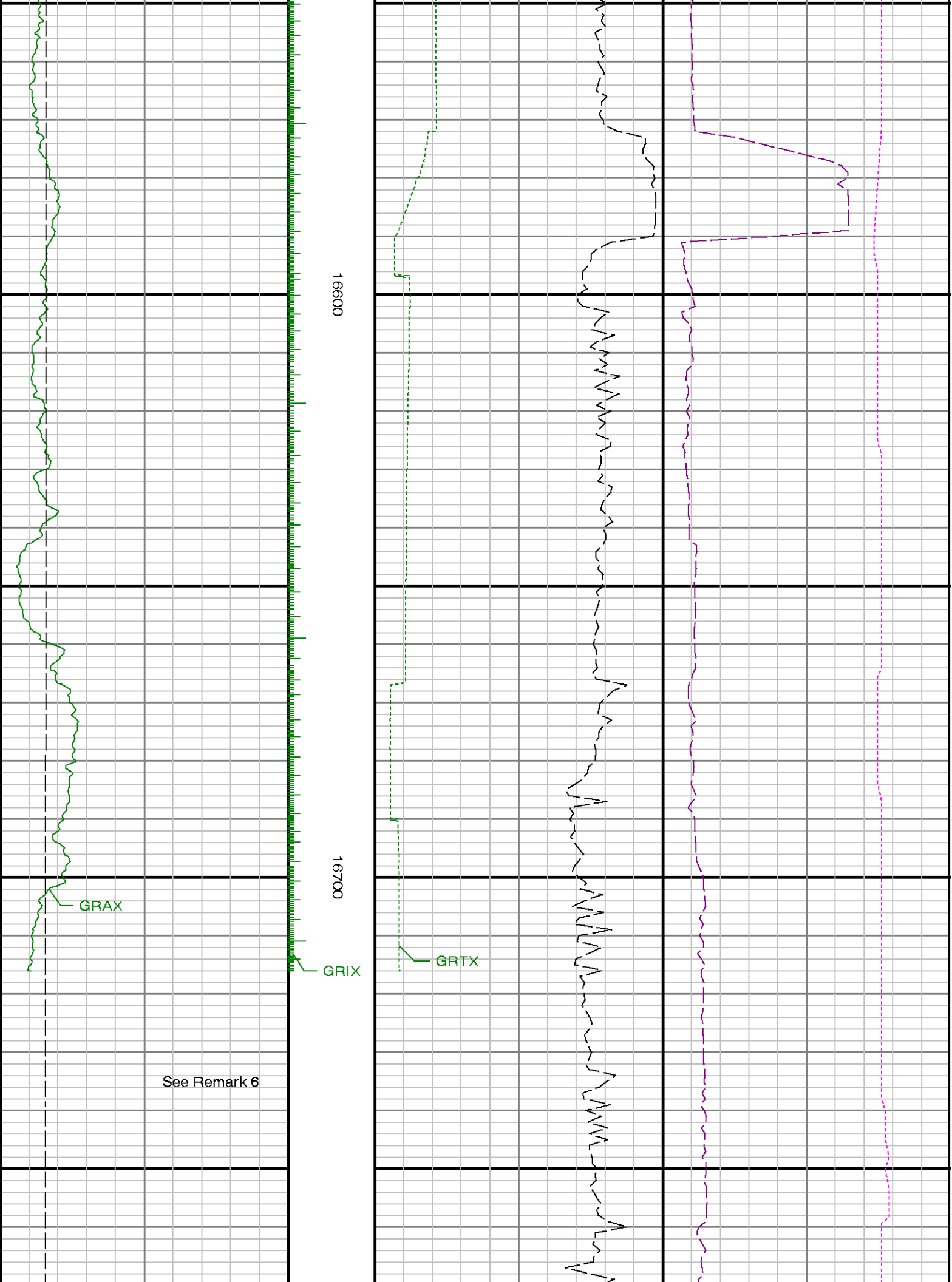




16400

16500





16600

16700

GRAX

GRIX

GRTX

See Remark 6

<div>TVD</div>	<div>Run 5 <</div>	<div>ROPA</div>	<div>WOBA</div>	<div>TCDX</div>
	16800			
<div>Gamma Ray Apparent 0.5 ft Avg GRAX</div> <div>0200</div> <div>API</div> <div>True Vertical Depth TVD</div> <div>73006500</div> <div>ft</div>	<div>MD feet 1:240</div>	<div>Gamma Time Since Drilled GRTX</div> <div>0600</div> <div>min</div> <div>Rate of Penetration 3.0 ft Avg ROPA</div> <div>5000</div> <div>ft/hr</div>	<div>Surface Weight On Bit 1.0 ft Avg WOBA</div> <div>0100</div> <div>klbf</div> <div>Downhole Temperature TCDX</div> <div>100300</div> <div>degF</div>	