



Realtime Log

Natural Formation Evaluation  
Gamma Ray

Scale:

Company: Anadarko

Well: Goodin 36N-A6HZ

Field: Weld County (Kerr McGee)

Region: Continental US State: United States

1:240

MEASURED DEPTH

Status: Final Print

Surface Location:

Latitude: 40° 3' 35.449" N

Longitude: 104° 42' 9.832" W

Other Services:

Directional  
VSS

API Number:  
05123407520000

Section: TWN: 1S Range: 65W

Permanent Datum (P.D.): Mean Sea Level

Elevation:

4979.00 ft.

Elevations:  
N/A

Log Measured From: Rig Floor

25.00 ft.

Above P.D.

KB:  
DF:  
GL:  
5004.00 ft.  
4979.00 ft.

Depth Reference: Driller's Depth

GL:

Interval Logged

Dates

Magnetic Field Reference

Top: 6700.0 ft. Date From: 27/Mar/15 Date To: 03/Apr/15 Dip Angle: 66.55° Azi Reference North: True

Bottom: 13407.0 ft. Date To: 03/Apr/15 Total Mag to Reference

Spud Date: 27/Mar/15 Field Strength: 52750.0 nT North Correction: 8.04°

Borehole Record

Casing Record

Hole Size	From	To	Size	Weight	From	To
8.750 in.	1604.0 ft.	7827.0 ft.	9.600 in.	36.00 lb/ft	Surface	1604.0 ft.
6.125 in.	7827.0 ft.	13407.0 ft.	7.000 in.	26.00 lb/ft	Surface	7827.0 ft.


Mud Record

Deviation Record

Type	From	To	Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
Water Based	1604.0 ft.	13407.0 ft.	8.750 in.	6223.0 ft.	0.6° / 25.9°	81.9° / 350.7°
			6.125 in.	5580.0 ft.	89.0° / 359.3°	92.1° / 358.2°
					/	/
					/	/
					/	/
					/	/

Acquisition System

Software Version

Other

Advantage	2.20U4	Rig / Contractor:	H&P 307	/	Helmerich & Payne Drilling Co
PAIS	6.4.1.34	Job No:	7036987		
		District / Unit:	RMD	/	D & E

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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 Core	3.500	Mud Motor	6700.0	7786.0	1604.0	7827.0	27/Mar/2015 14:39	27/Mar/2015 14:39	36.1
2	2	2	6.125	PDC Core	6.500	Mud Motor	7789.0	13353.0	7827.0	13407.0	01/Apr/2015 03:29	03/Apr/2015 08:00	33.6

Crew

Name	Arrive	Depart	Name	Arrive	Depart	Name	Arrive	Depart
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
Andy King	29/Mar/2015	01/Apr/2015	Jake Miller	02/Apr/2015	03/Apr/2015	Mike Gurnsey	01/Apr/2015	03/Apr/2015
Bill Herbers	29/Mar/2015	03/Apr/2015	Edward Beatty	29/Mar/2015	01/Apr/2015	Donald Delay	29/Mar/2015	03/Apr/2015

Mud Properties Record

Date / Time		LWD Run No.	Measured Depth (ft.)	Mud Type	Density (lb/gal)	Viscosity (s/qt)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
30/Mar/2015	19:00	1	7118.0	Poly-Plus	10.2	48	9.7	0.0	3/88	Active Pit	2500	0.0
01/Apr/2015	19:00	2	11595.0	Poly-Plus	9.6	44	9.7	0.0	3/91	Active Pit	2200	0.0
03/Apr/2015	19:00	2	12950.0	Poly-Plus	9.6	47	9.6	0.0	2/91	Active Pit	2600	0.0

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 ft. 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 (m.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	13108409	Directional	45.46	6.750	3.250
1	SRIG	12595022	Gamma	42.09	6.750	3.250
2	DIR	12373463	Directional	51.98	4.750	2.750
2	SRIG	ZSGM1059598	Gamma	48.56	4.750	2.750

Service and Tool Mnemonics

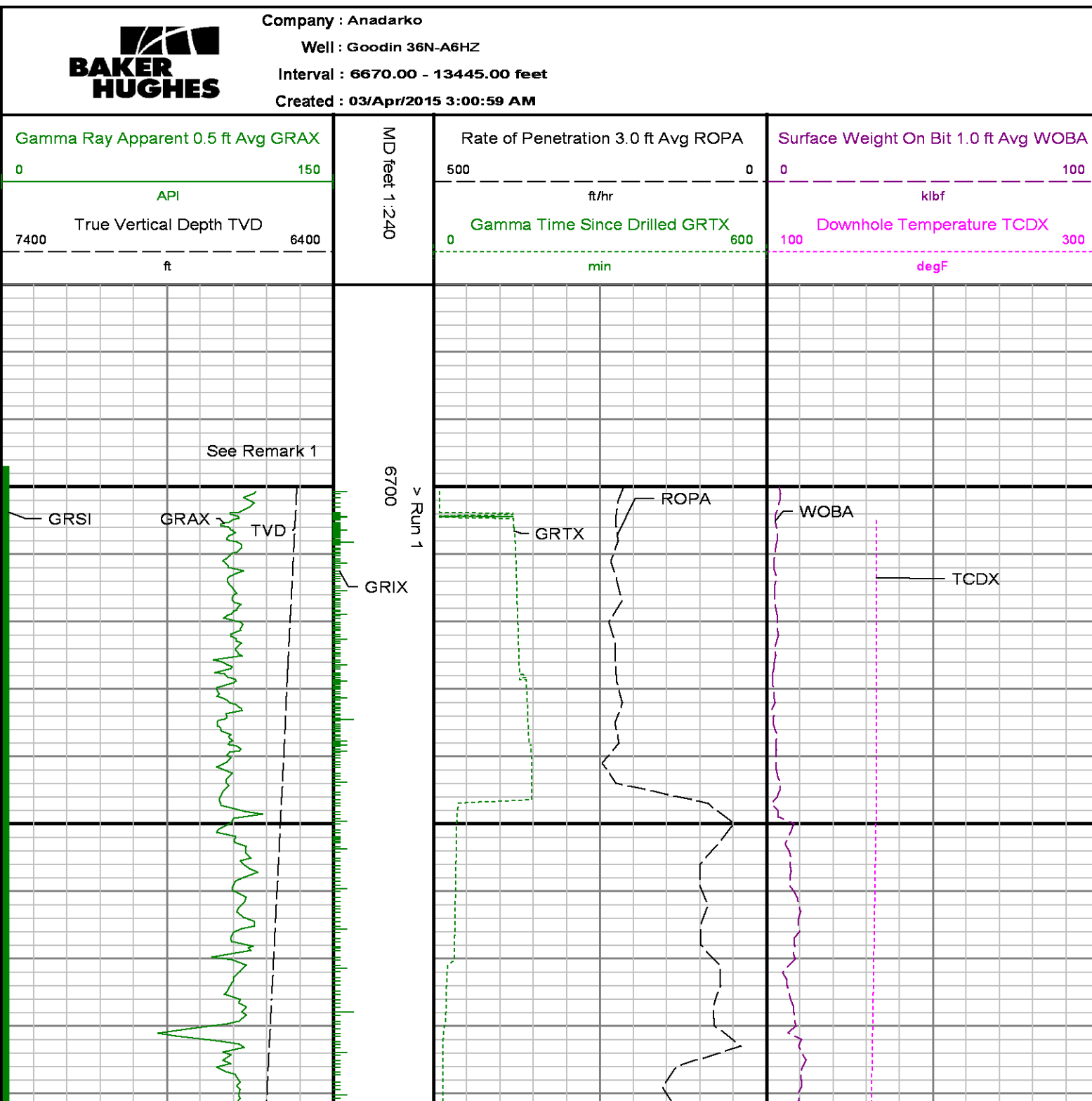
Mnemonic	Name	Description
DIR	Directional	Wellbore directional survey
SRIG	Inclination and Gamma	Probe based gamma ray and inclination module

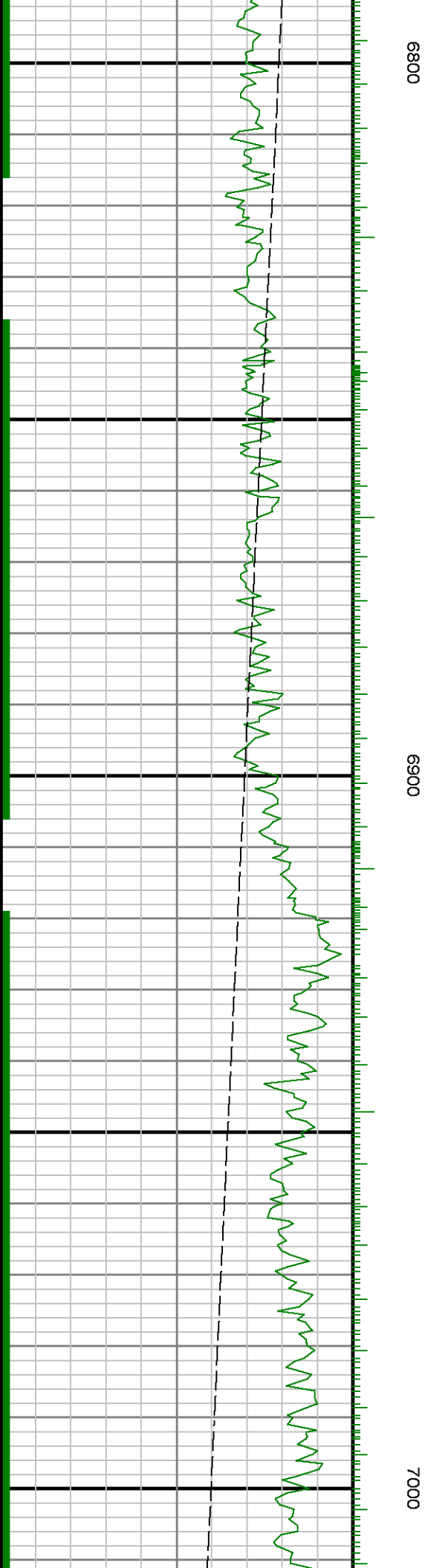
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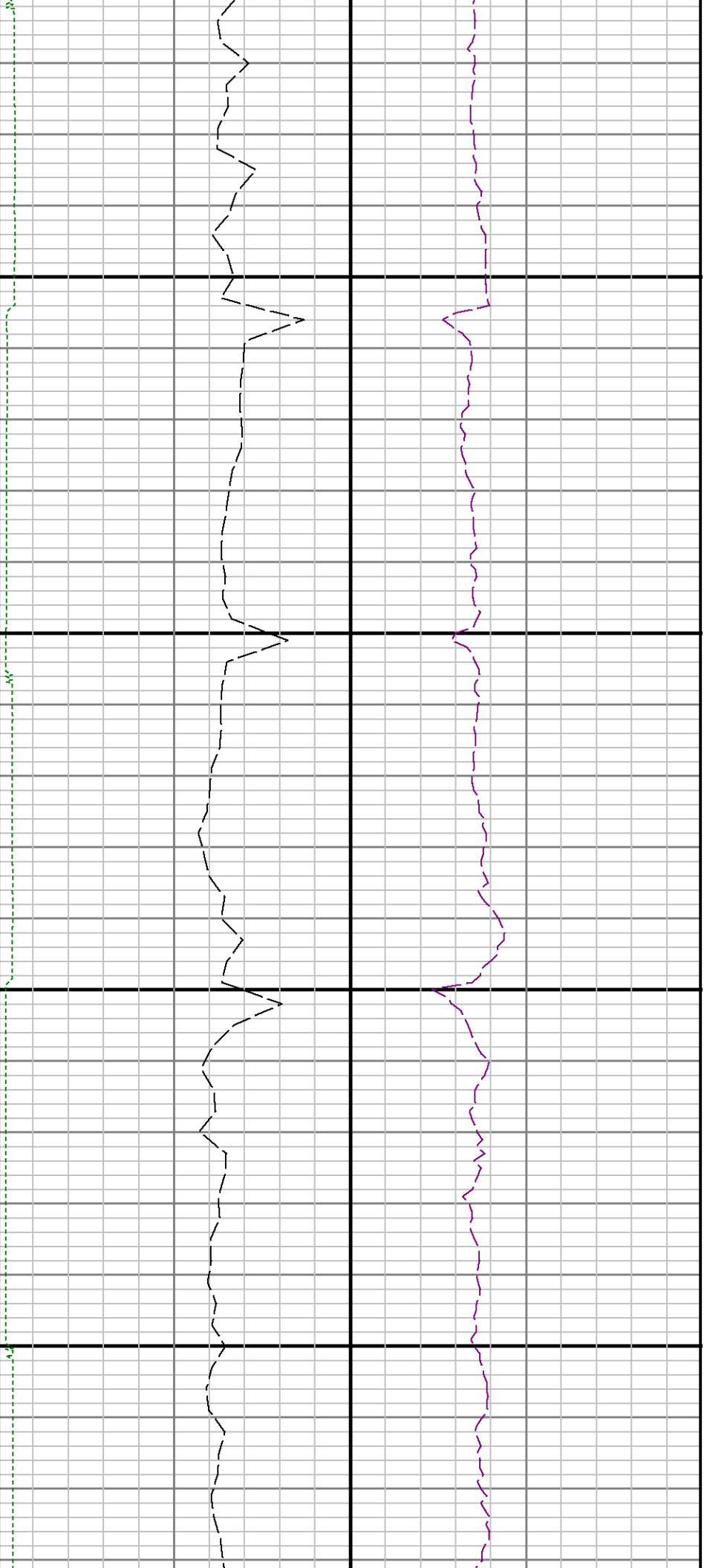
(1) Baker Hughes LWD Run 1 utilized 6 3/4 inch NaviGamma services (Gamma Ray and Directional) behind an 8 3/4 inch bit and steerable assembly from 1604 to 7827 ft MD (1603 to 7230 ft TVD).
(2) Baker Hughes LWD Run 2 utilized 4 3/4 inch NaviGamma services (Gamma Ray and Directional) behind a 6 1/8 inch bit and steerable assembly from 7827 to 13407 ft MD (7230 to 7240 ft TVD).
(3) Depth measurements were obtained from a depth control system not supplied or operated by Baker Hughes. Due to the lack of control by Baker Hughes logging engineers, depth calibrations and measurements could not be independently verified.
(4) A sliding indicator is shown on the left edge of track 1 as a heavy line. This indicator has been depth-shifted to the Gamma Ray sensor offset to correspond with Gamma Ray data acquired while sliding.

Remarks

Number	Measured Depth (m.)	Hole Section (in.)	LWD Run No.	Remark
1	6700	8.750	1	Began logging Gamma above Build Section at 6700 ft MD (6509 ft TVD).
2	7810	6.125	2	The interval from 7827 to 7869 ft MD (7230 to 7231 ft TVD) was logged up to 42 hours after being drilled due to a trip out of hole for casing and cement operations and to pick up Lateral BHA.
3	13380	6.125	2	No logging data is shown from 13360 to 13407 ft MD (7242 to 7240 ft TVD) due to sensor offset from bit at the end of run 2.

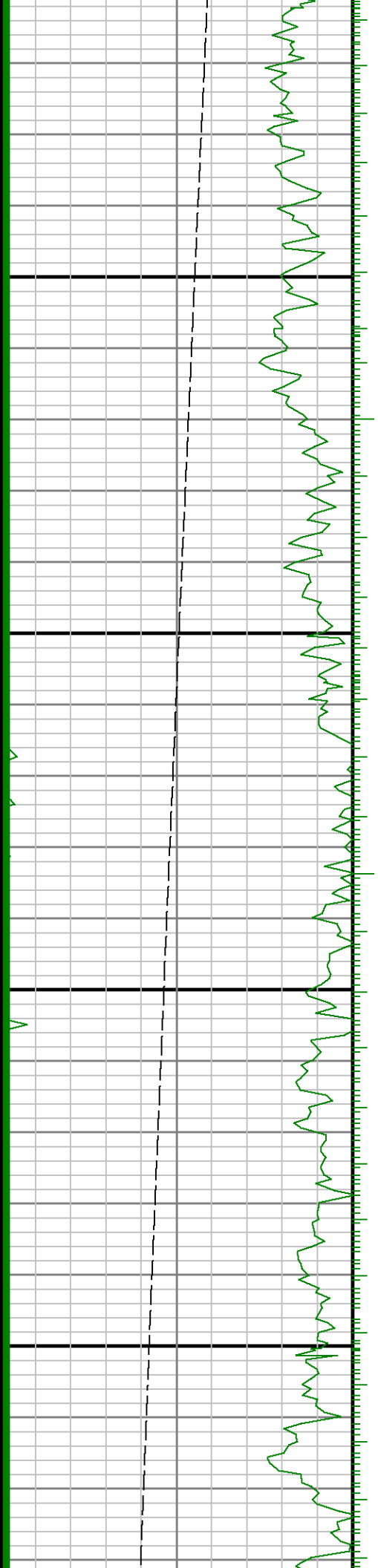






7100

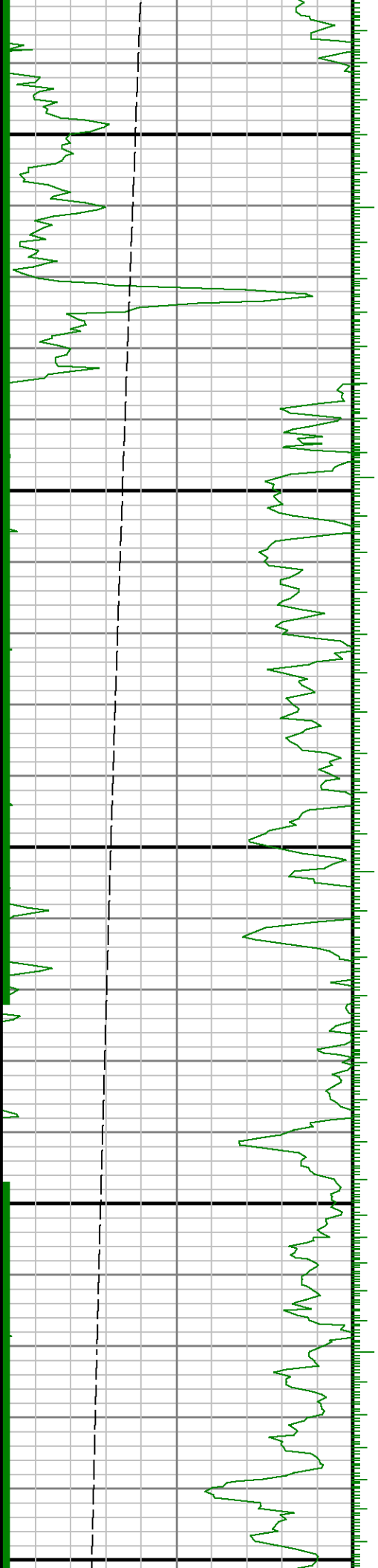
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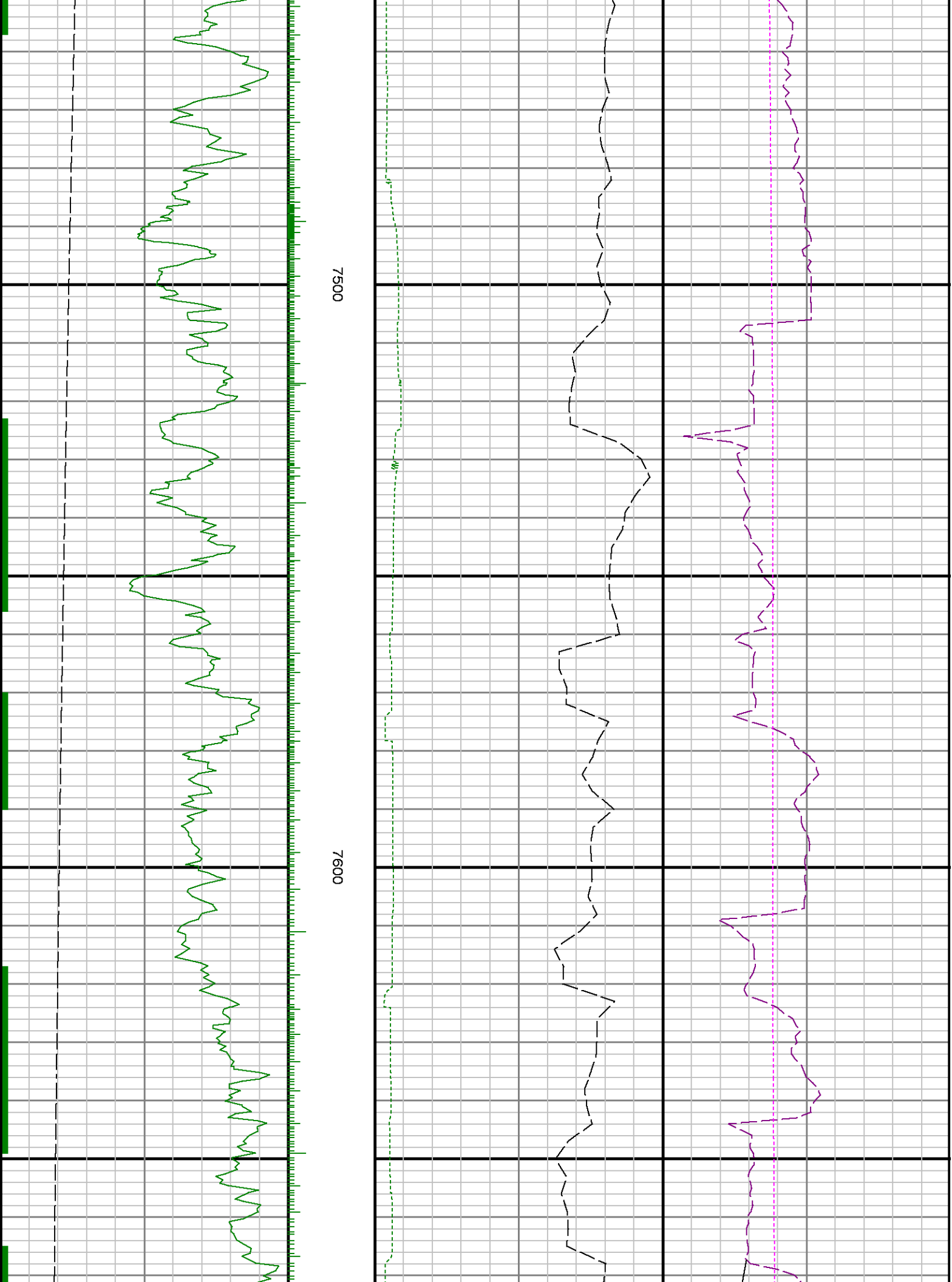


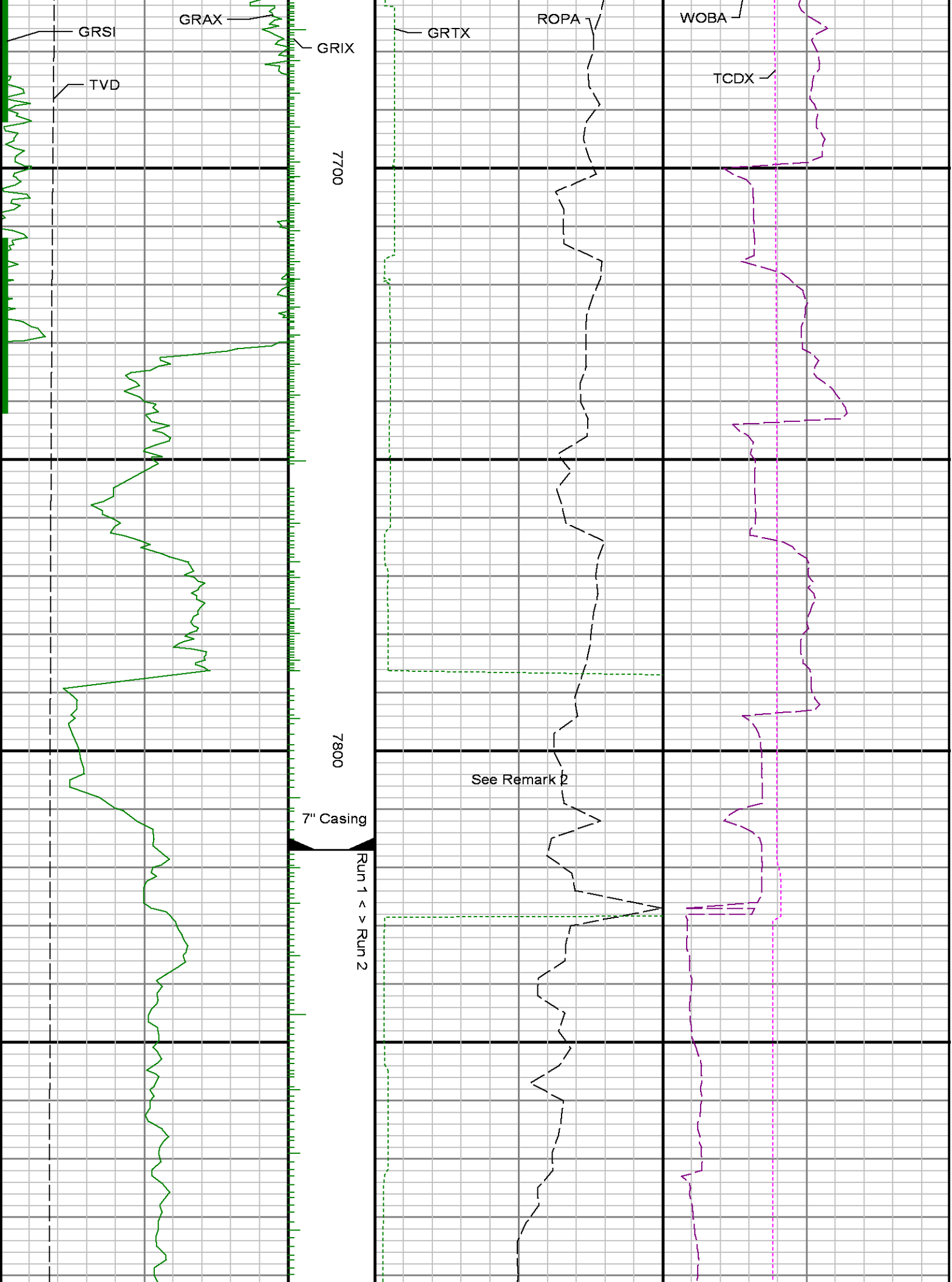


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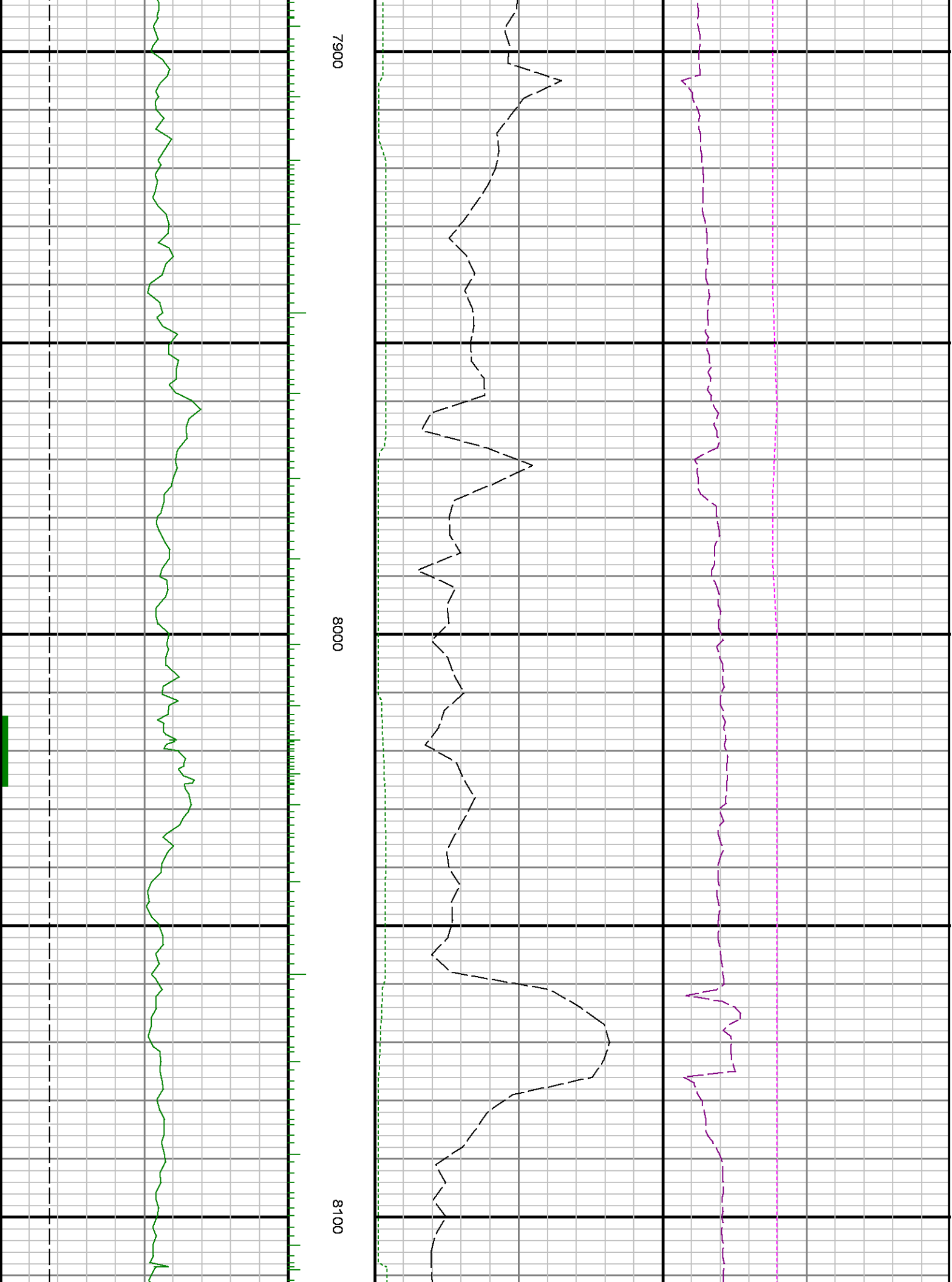
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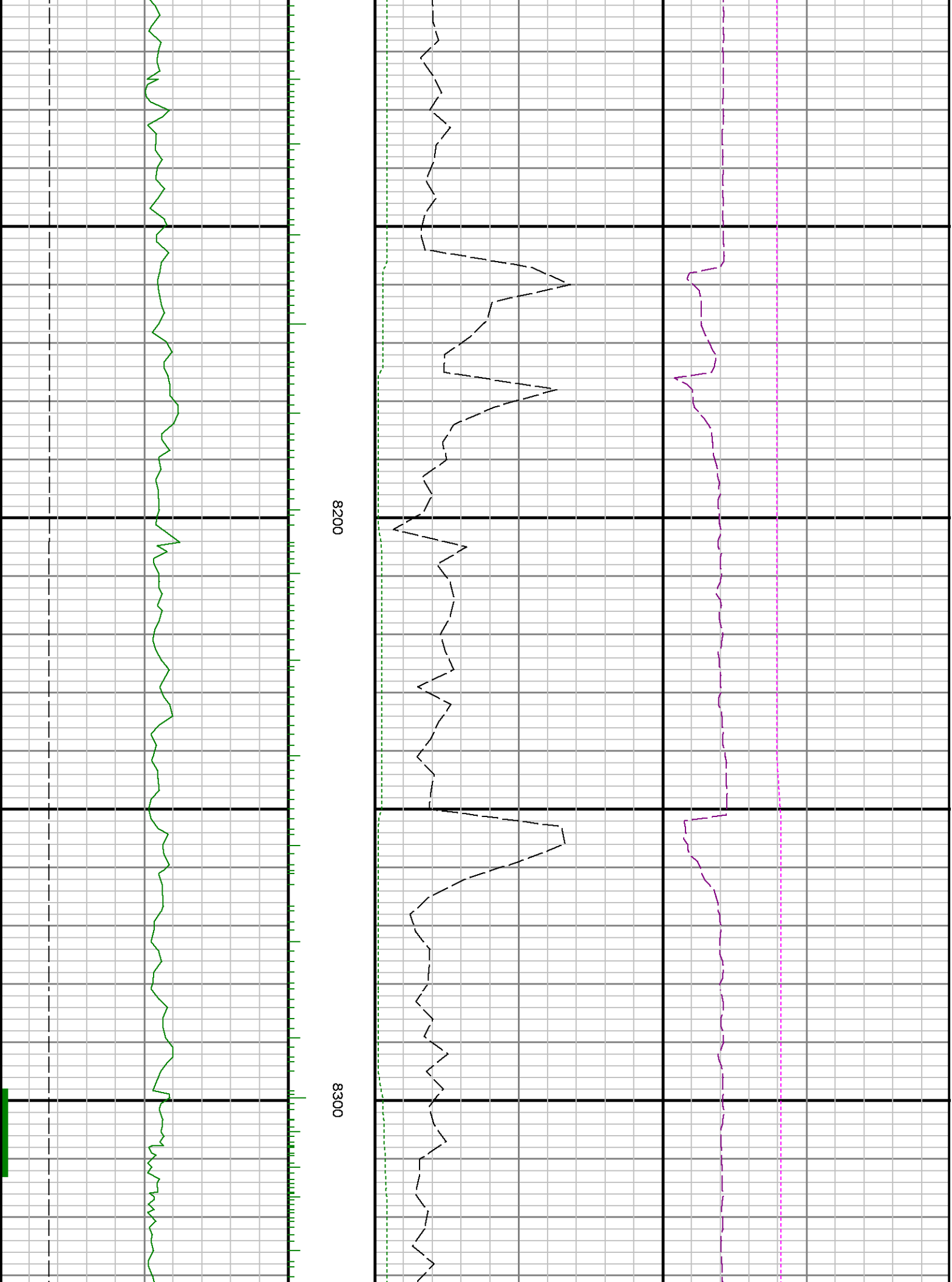


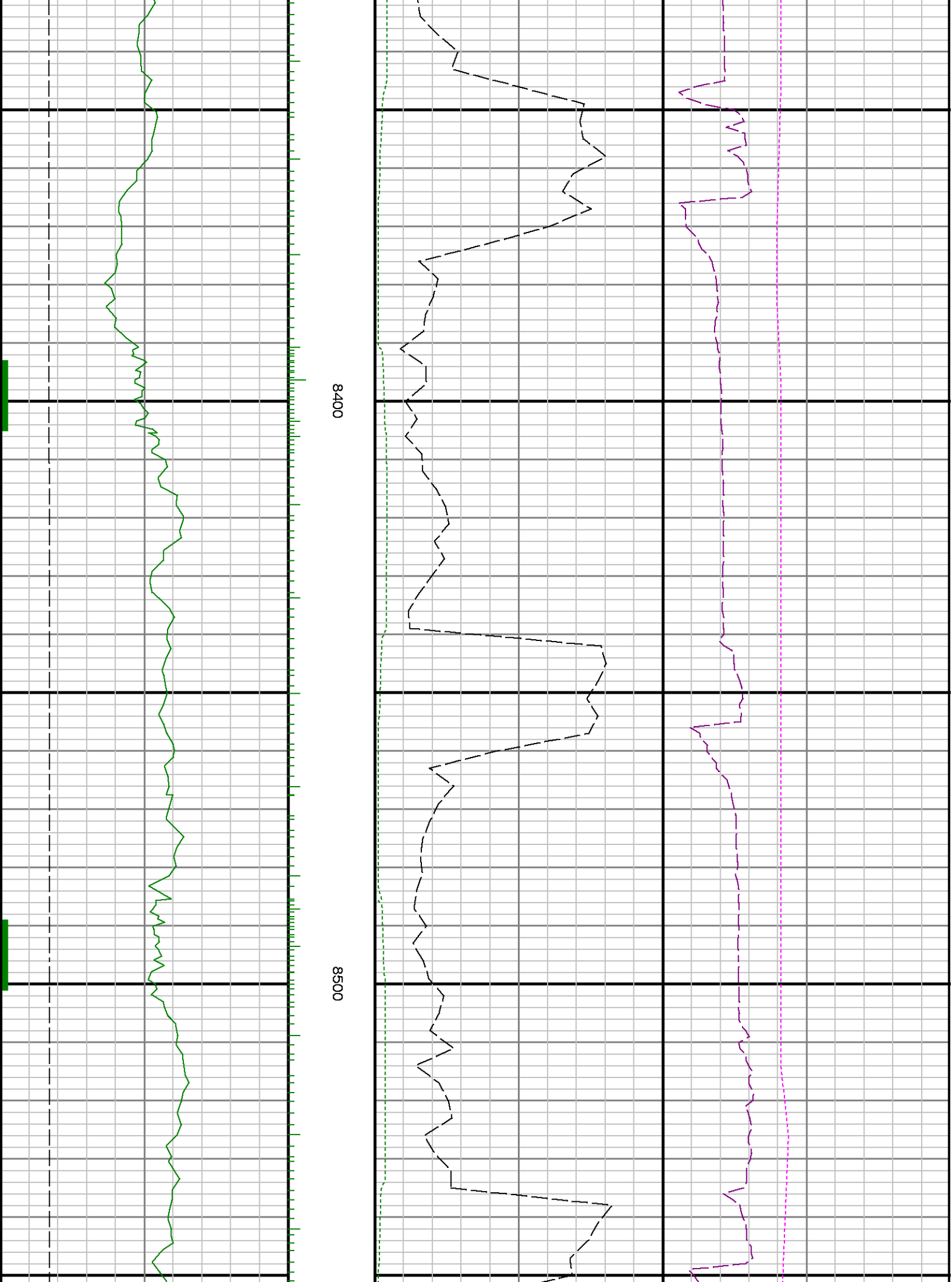


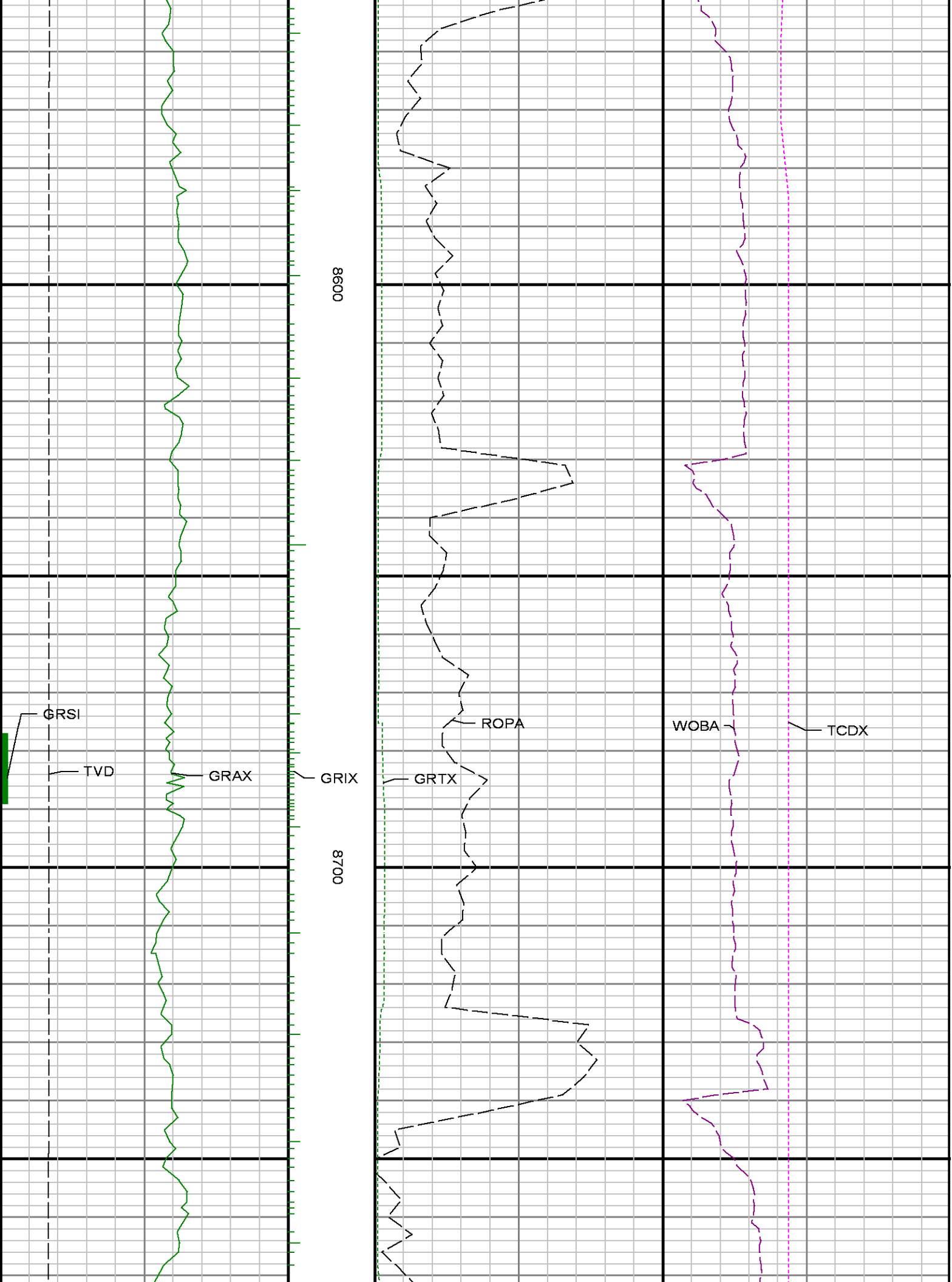


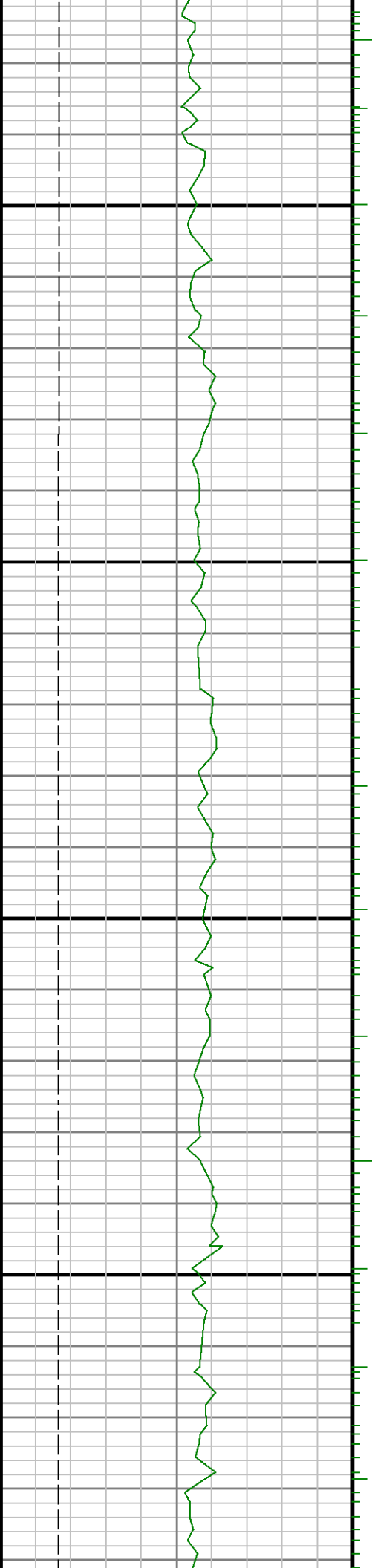






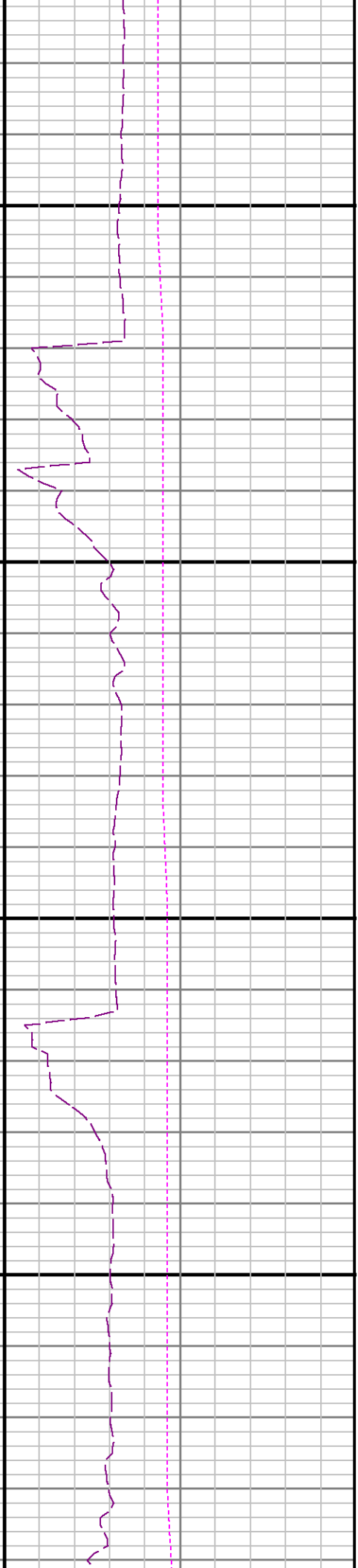
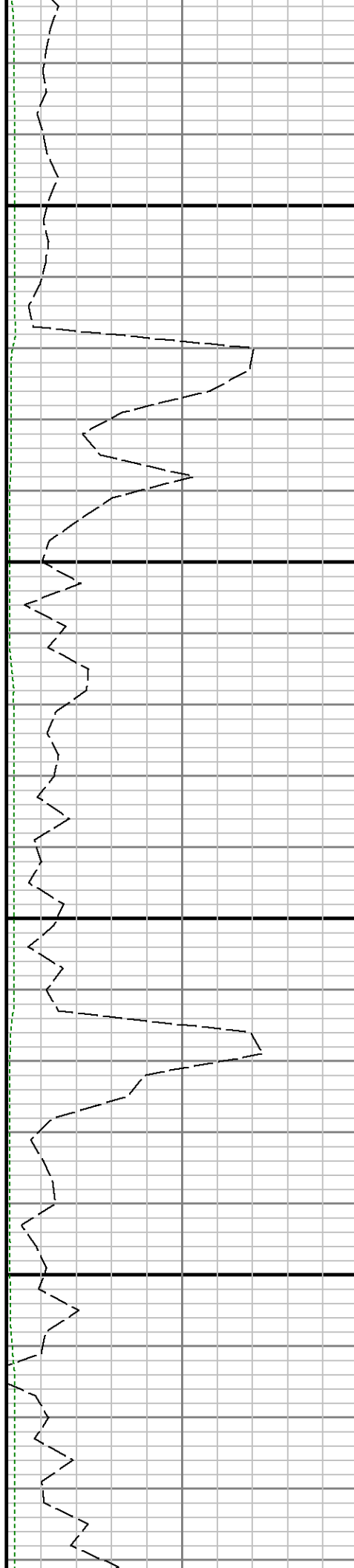


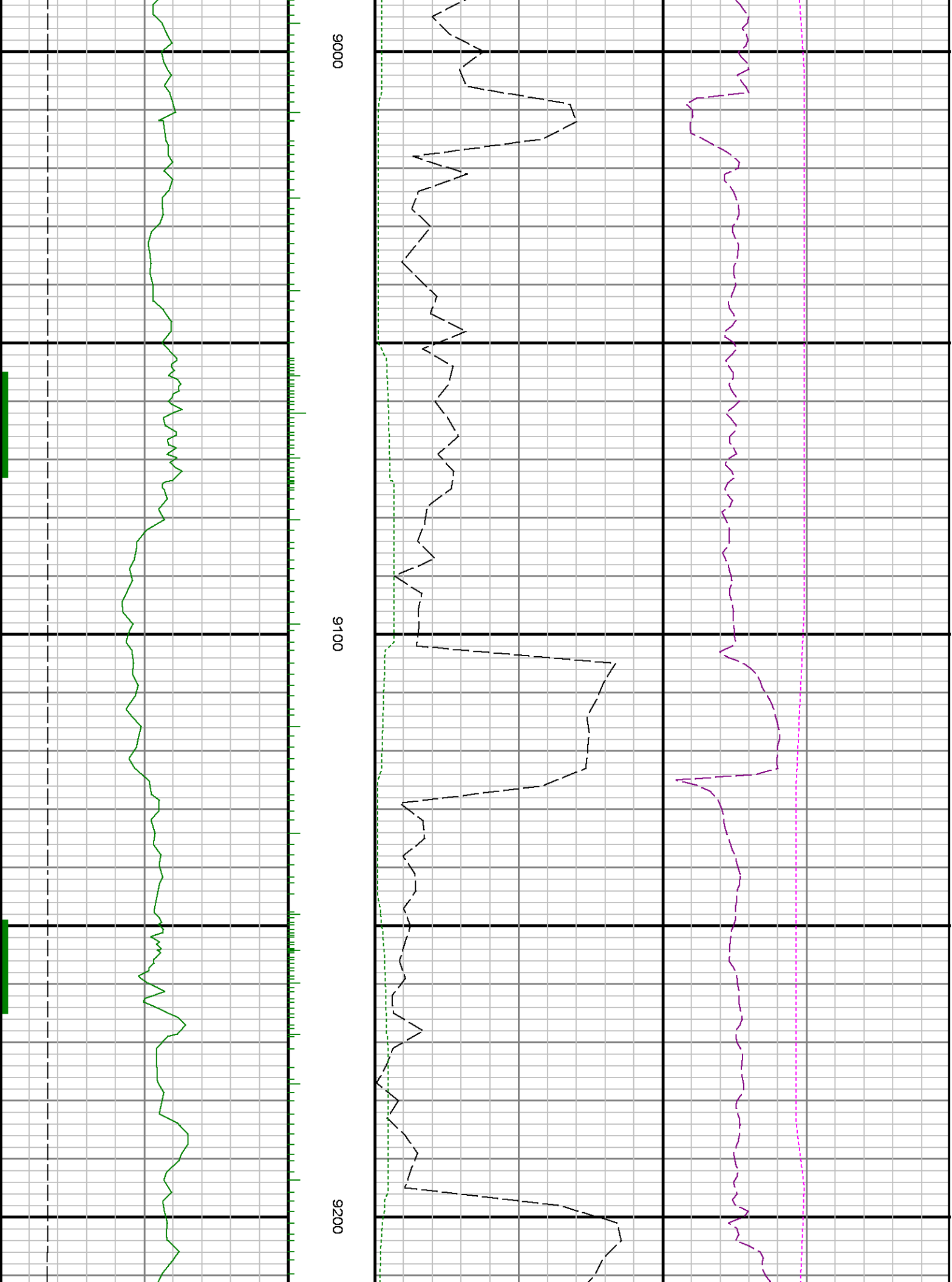


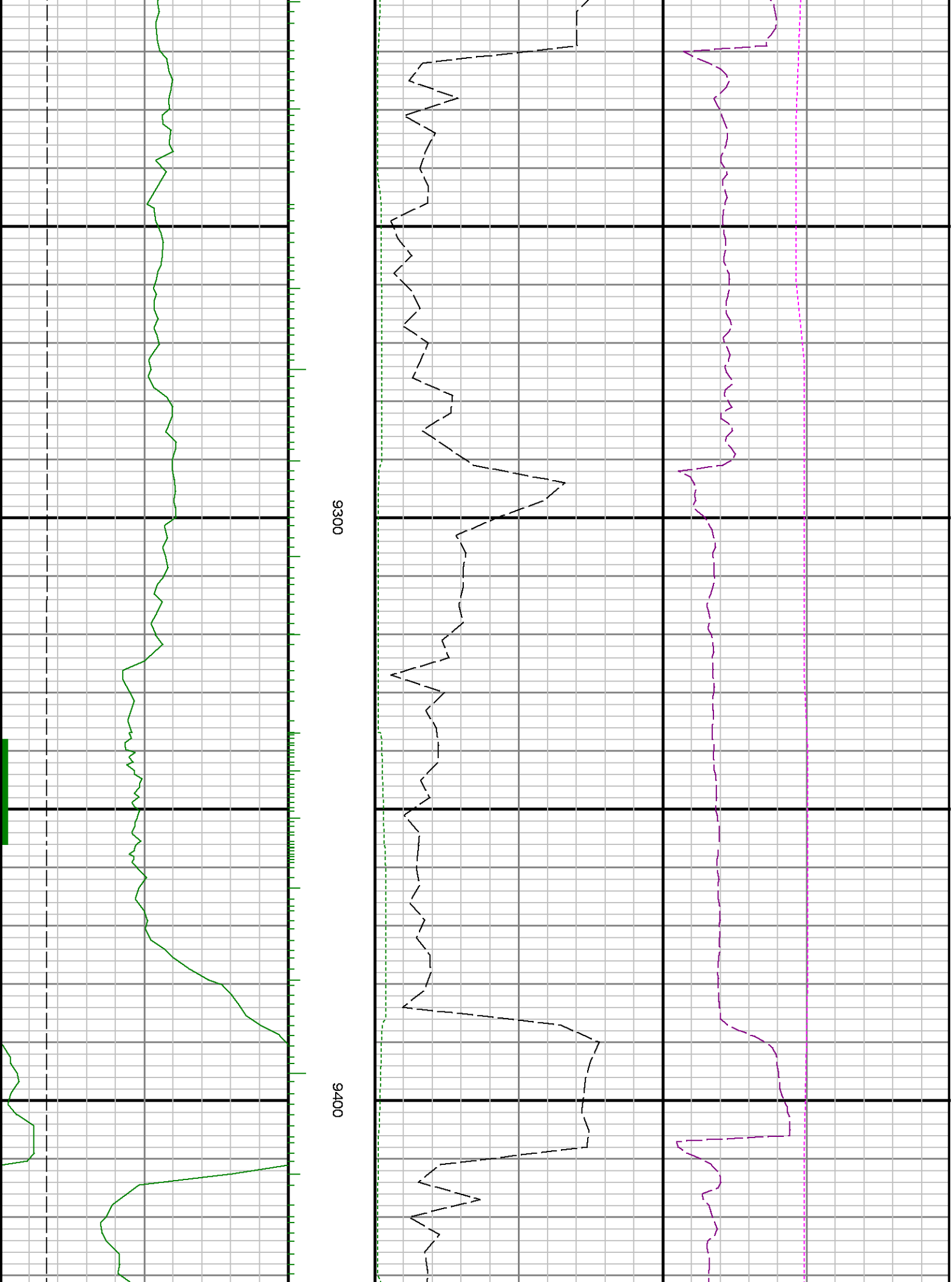


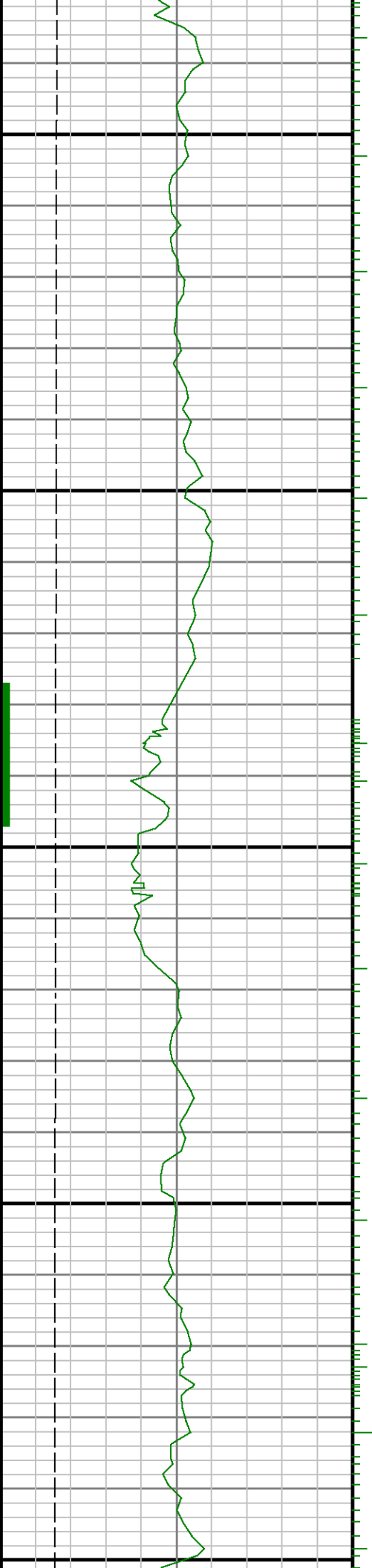
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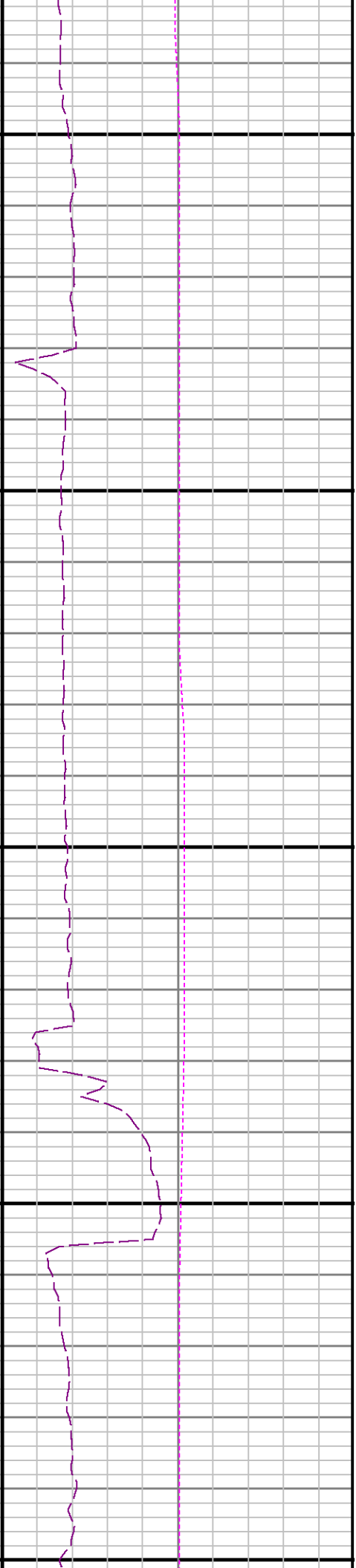
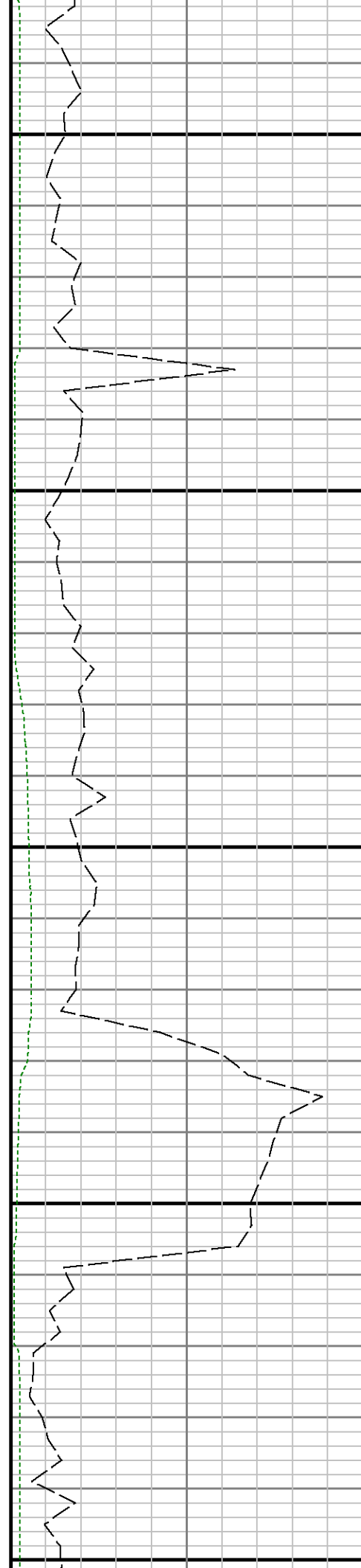




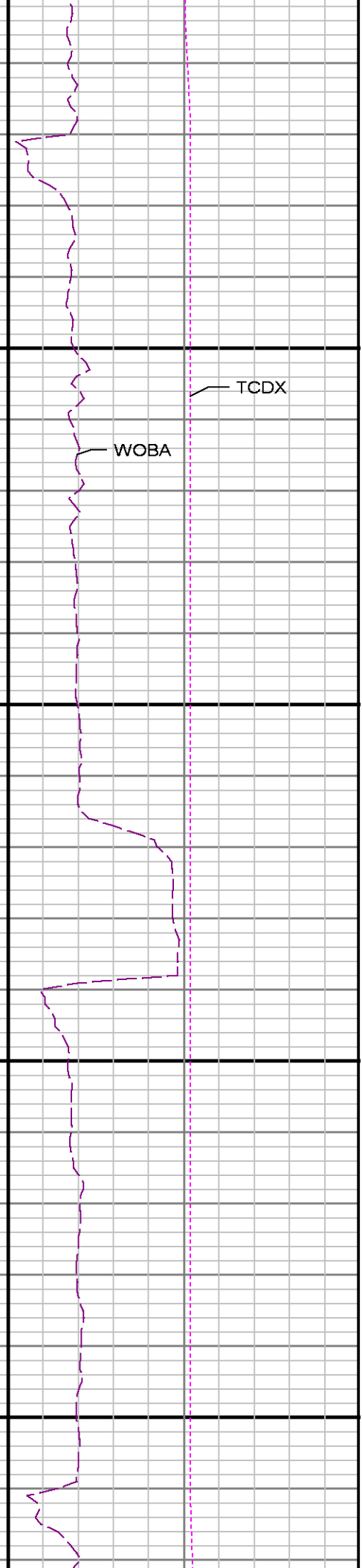
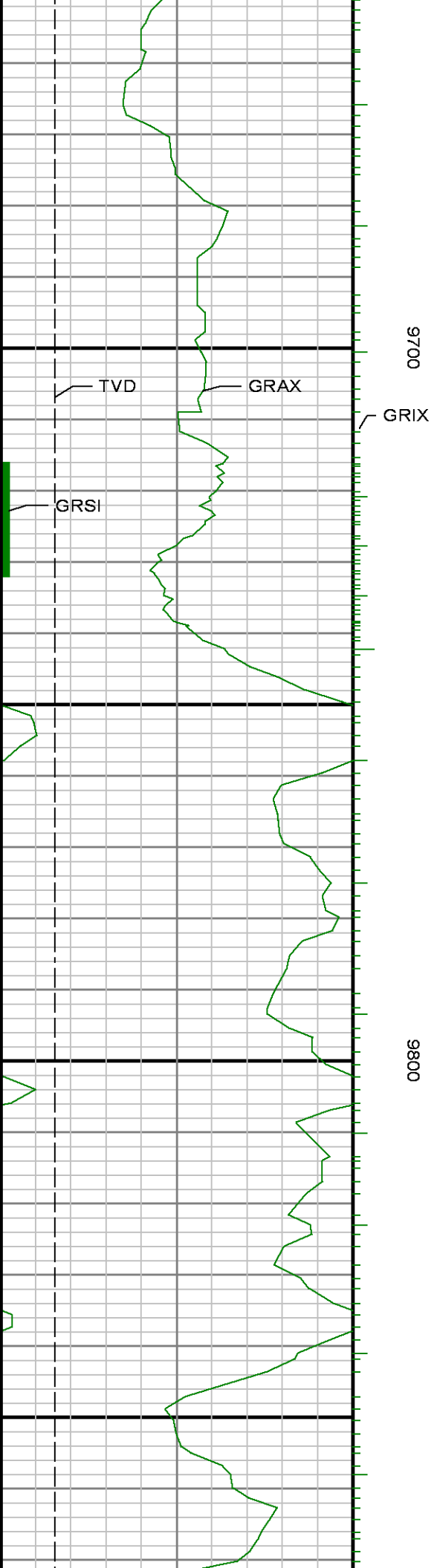


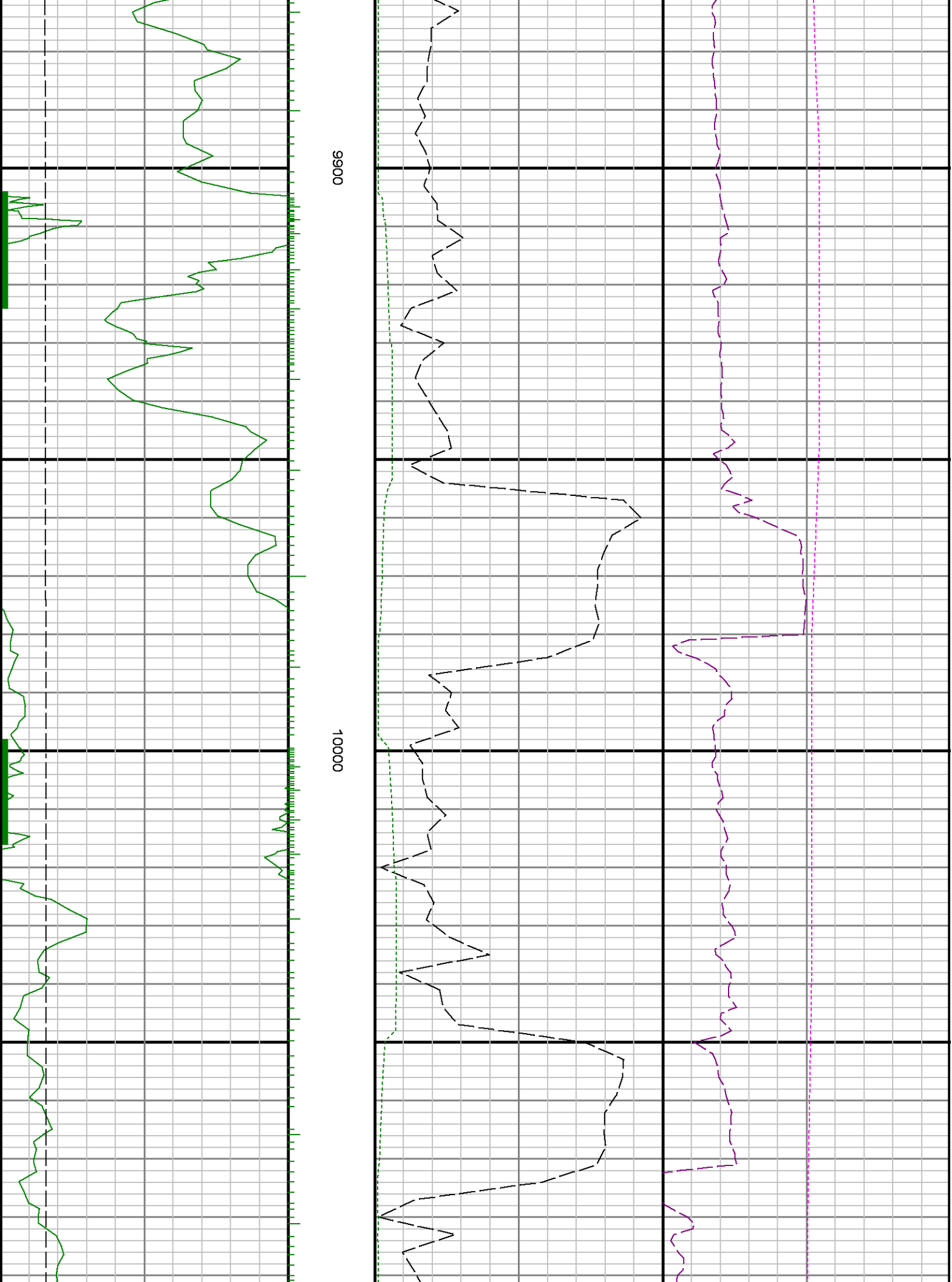
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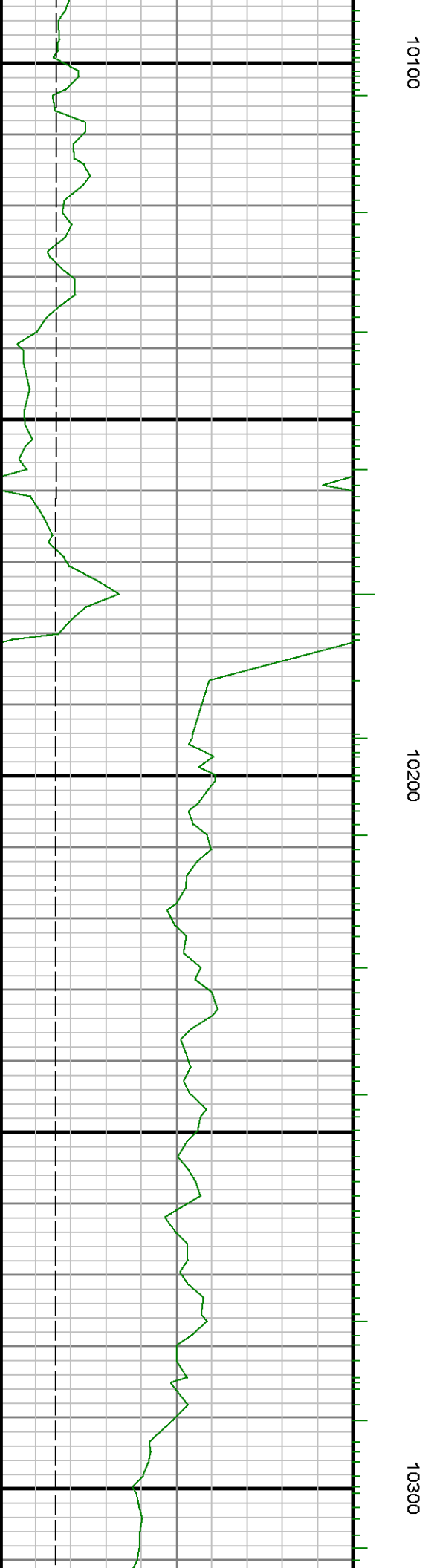
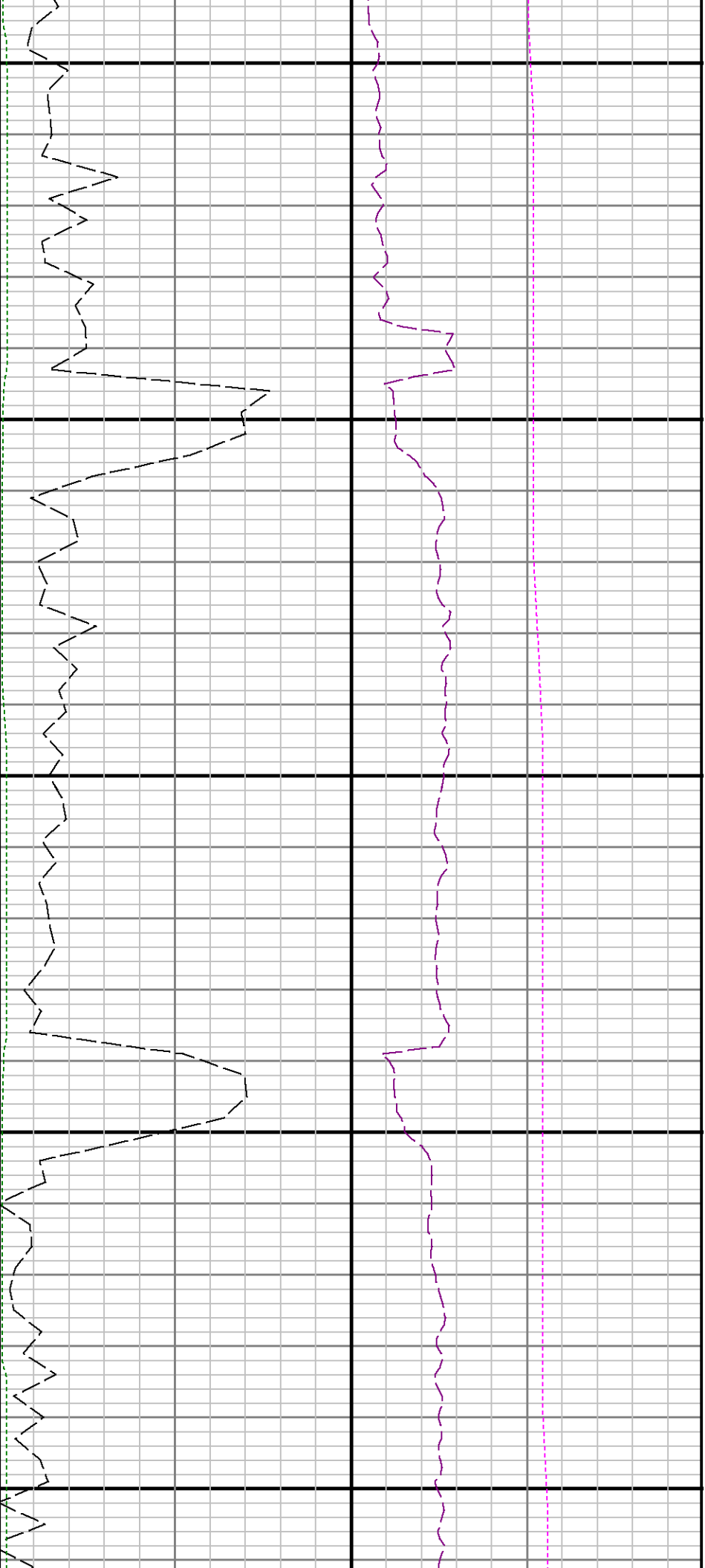
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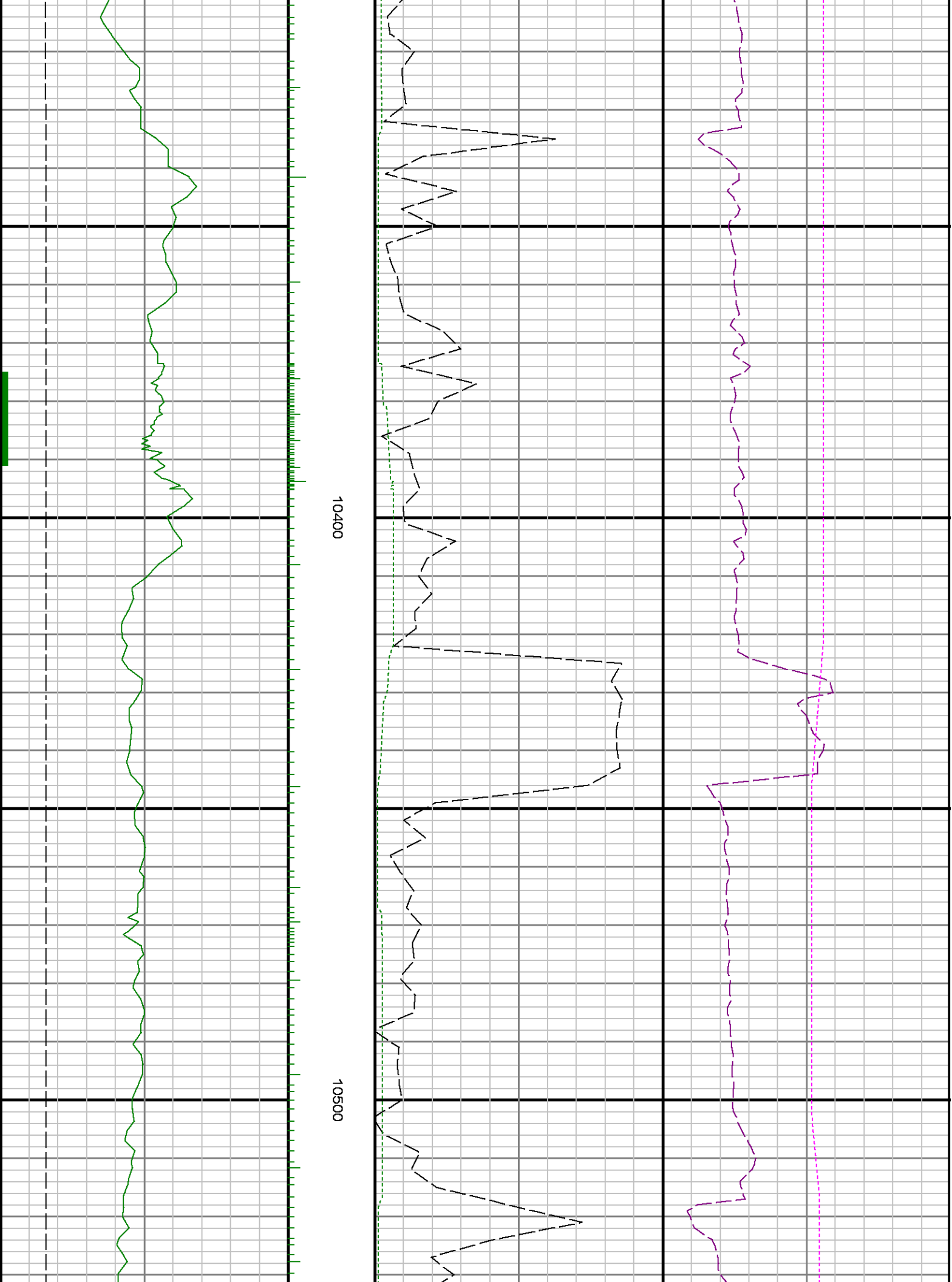


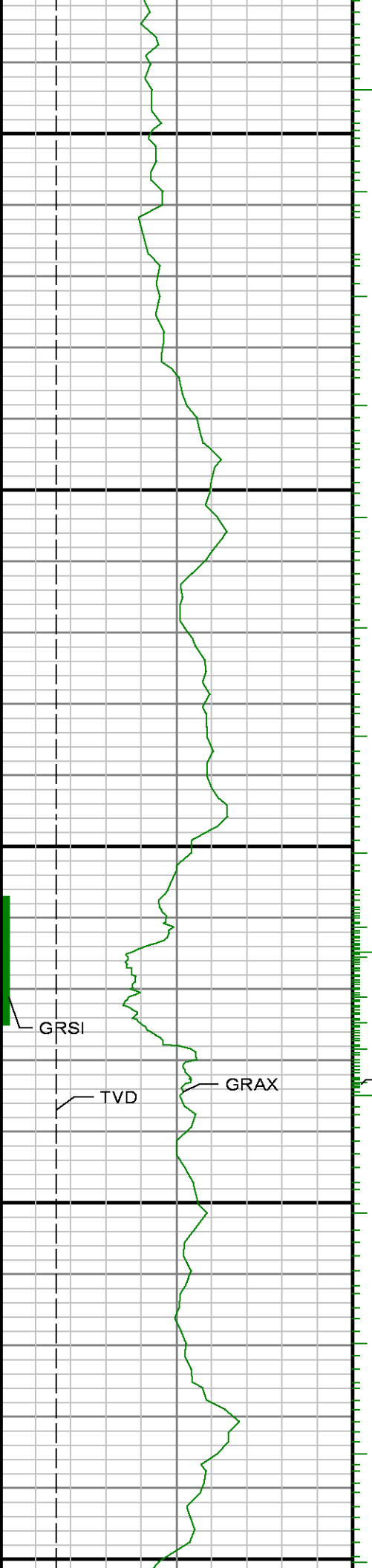






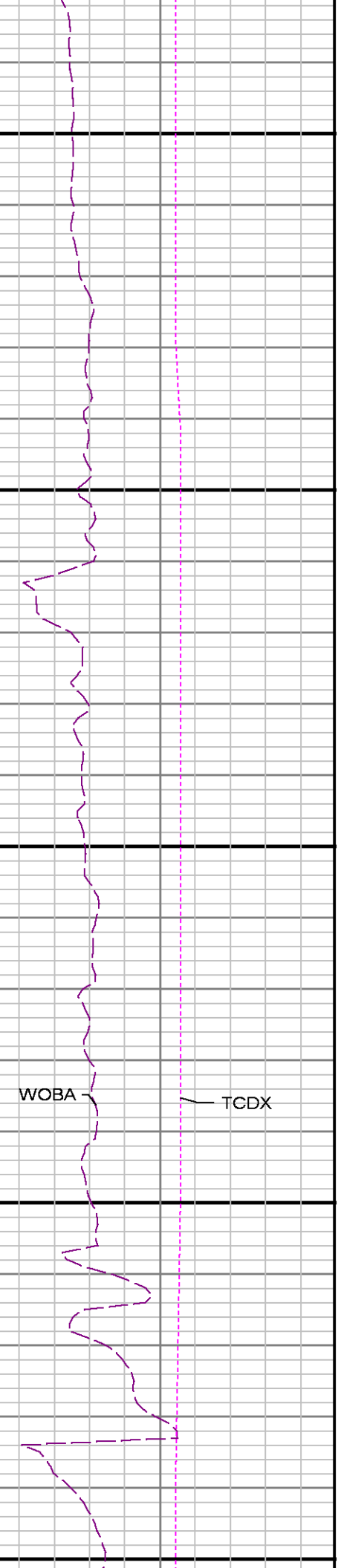
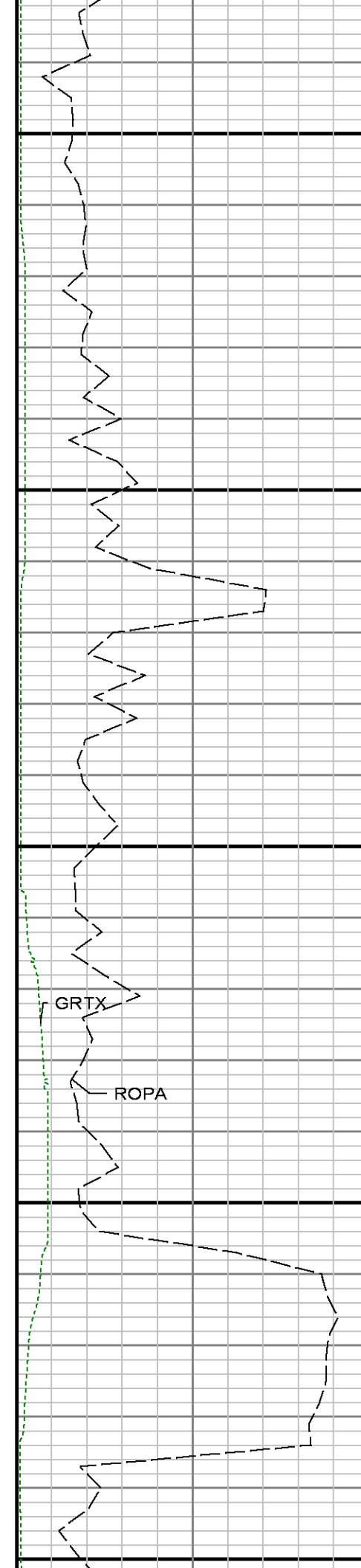






10600

10700



GRSI

TVD

GRAX

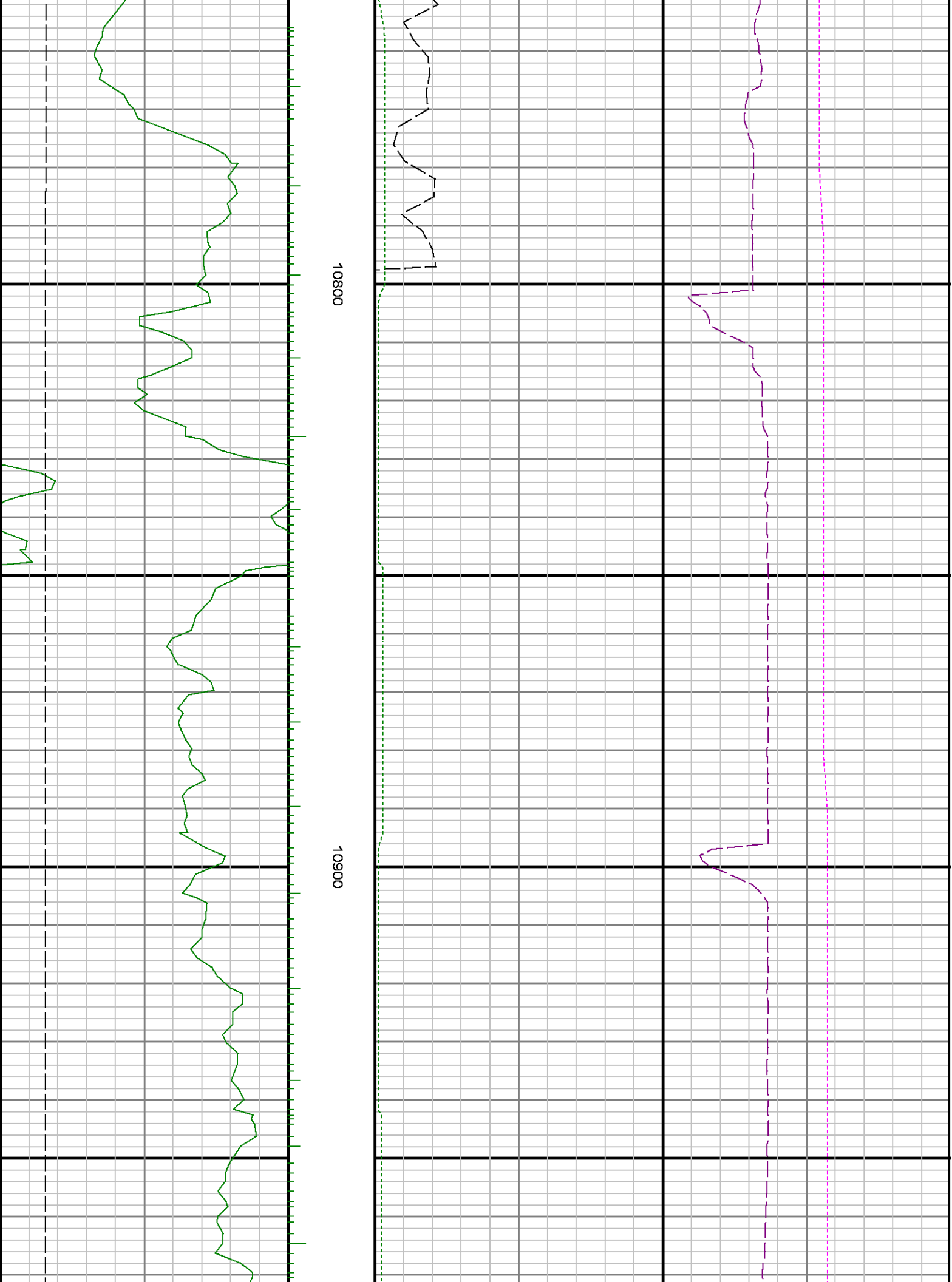
GRIX

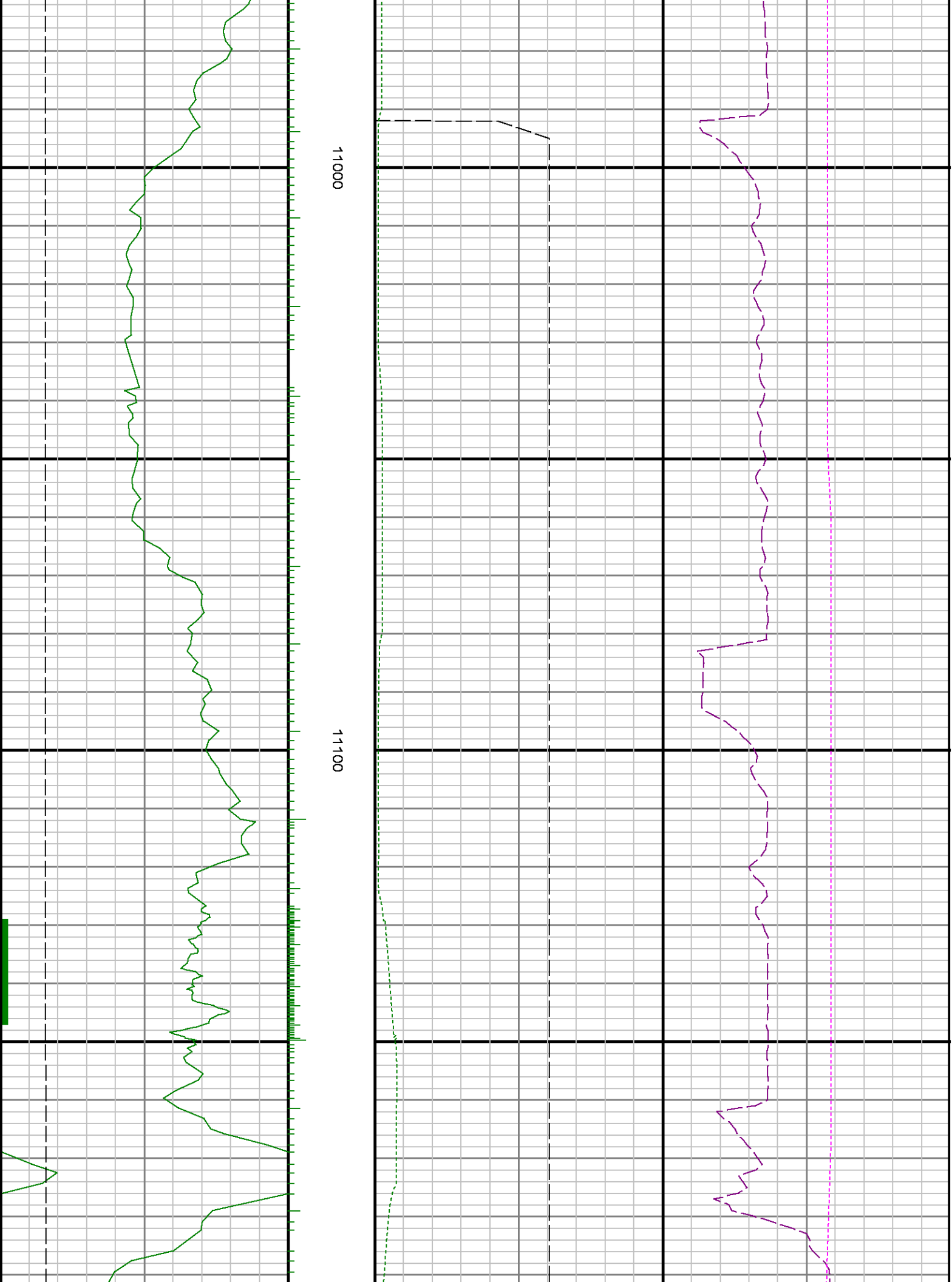
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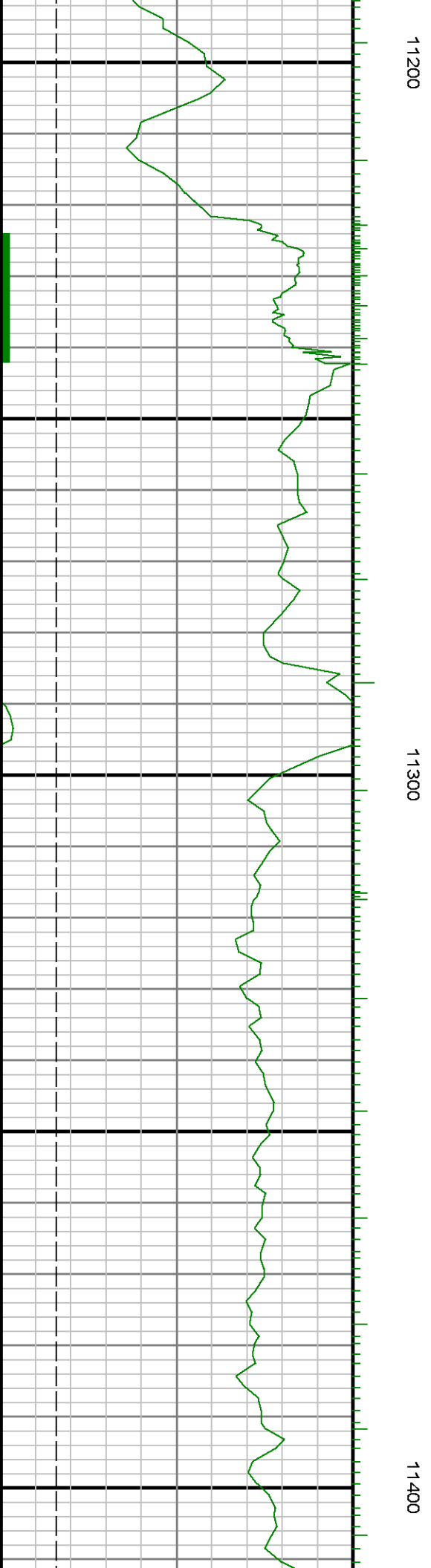
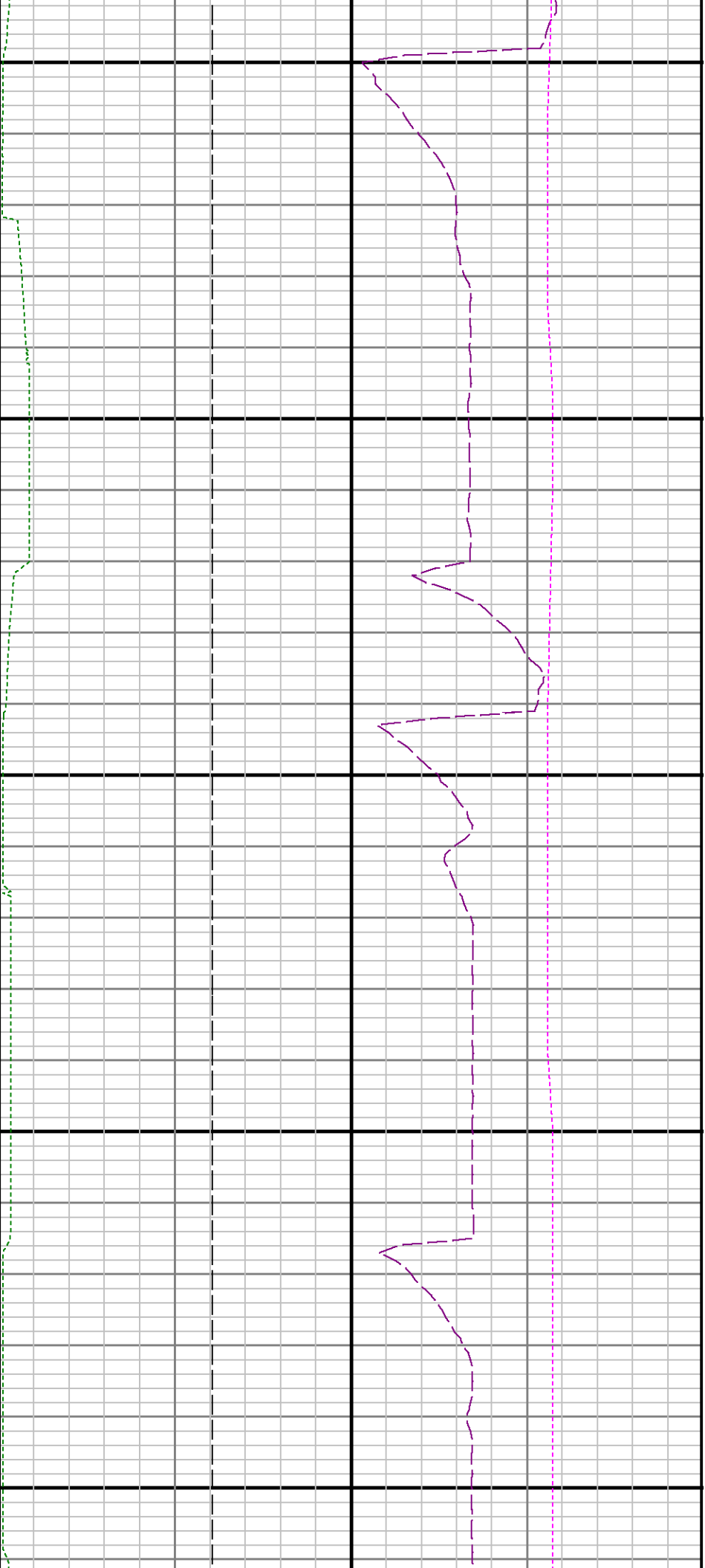
ROPA

WOBA

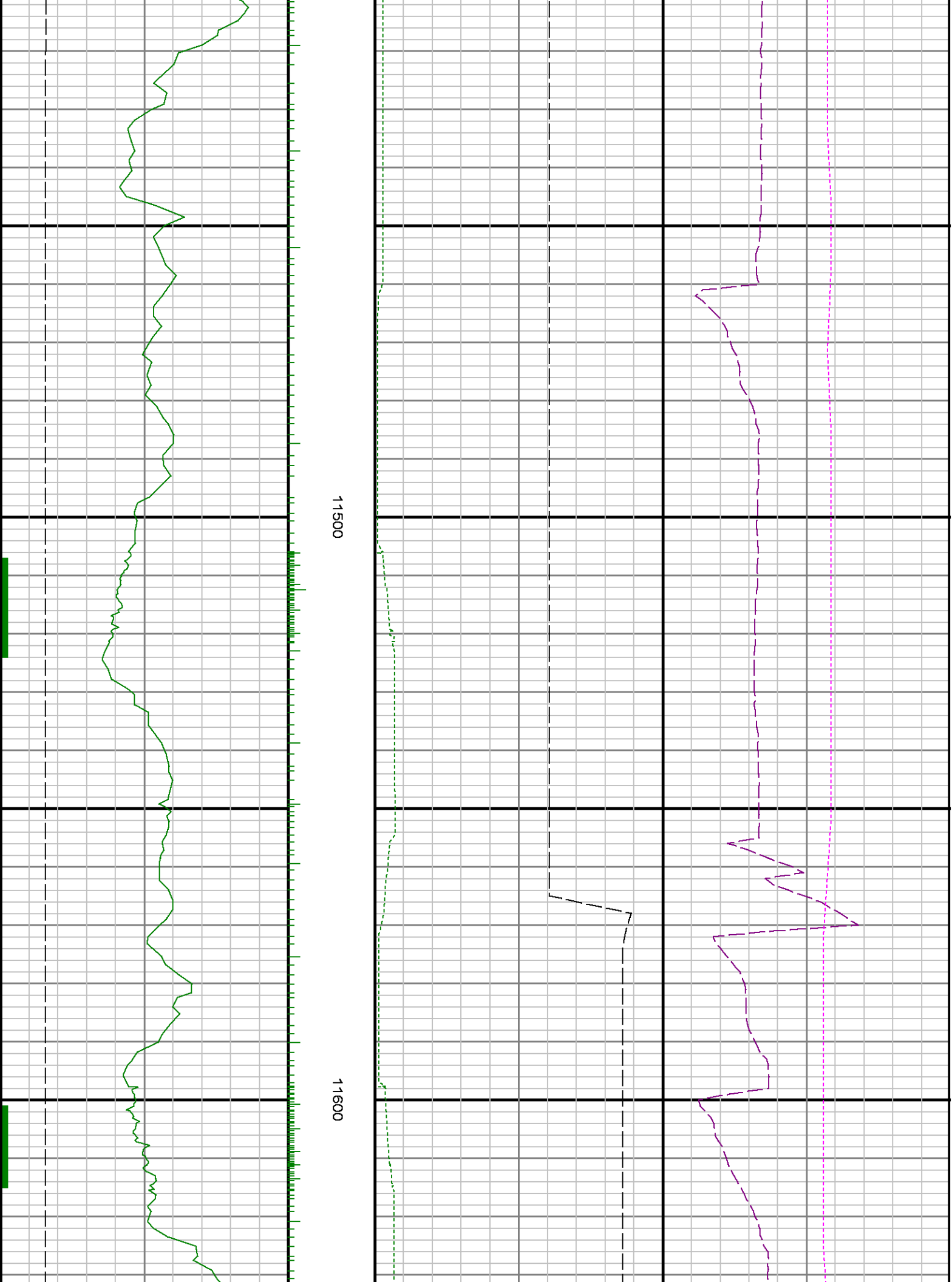
TCDX

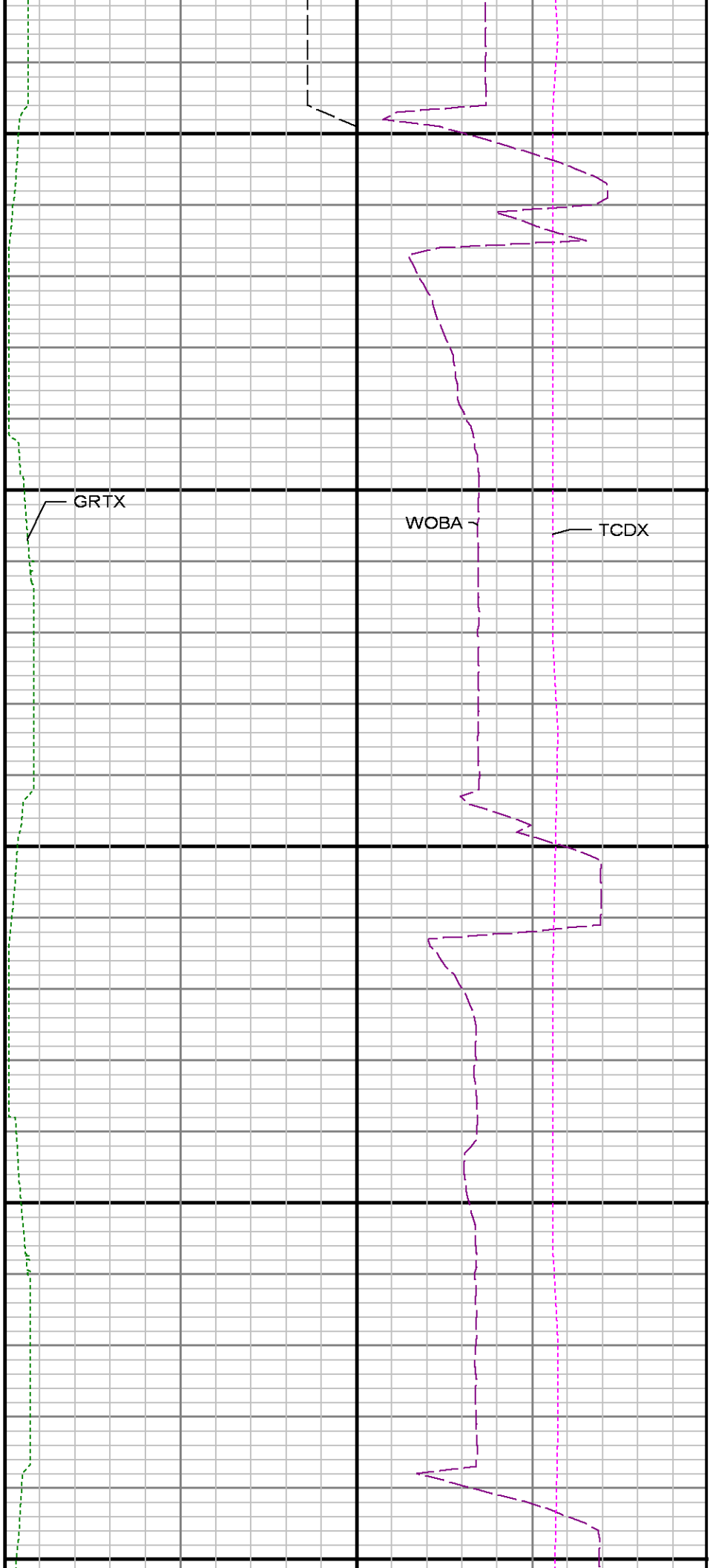
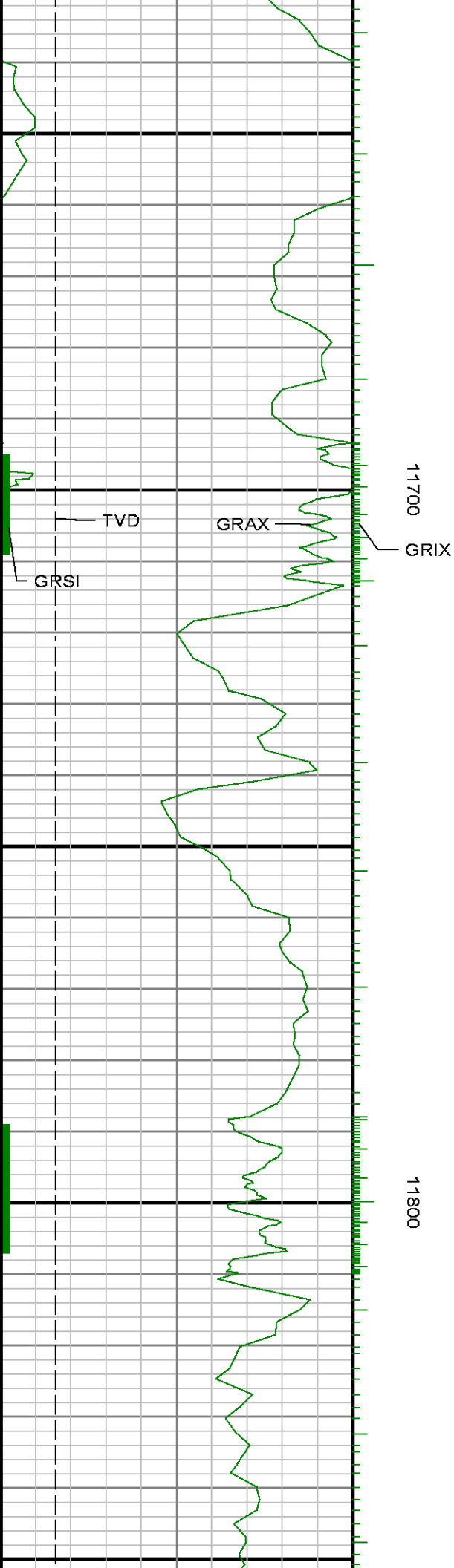


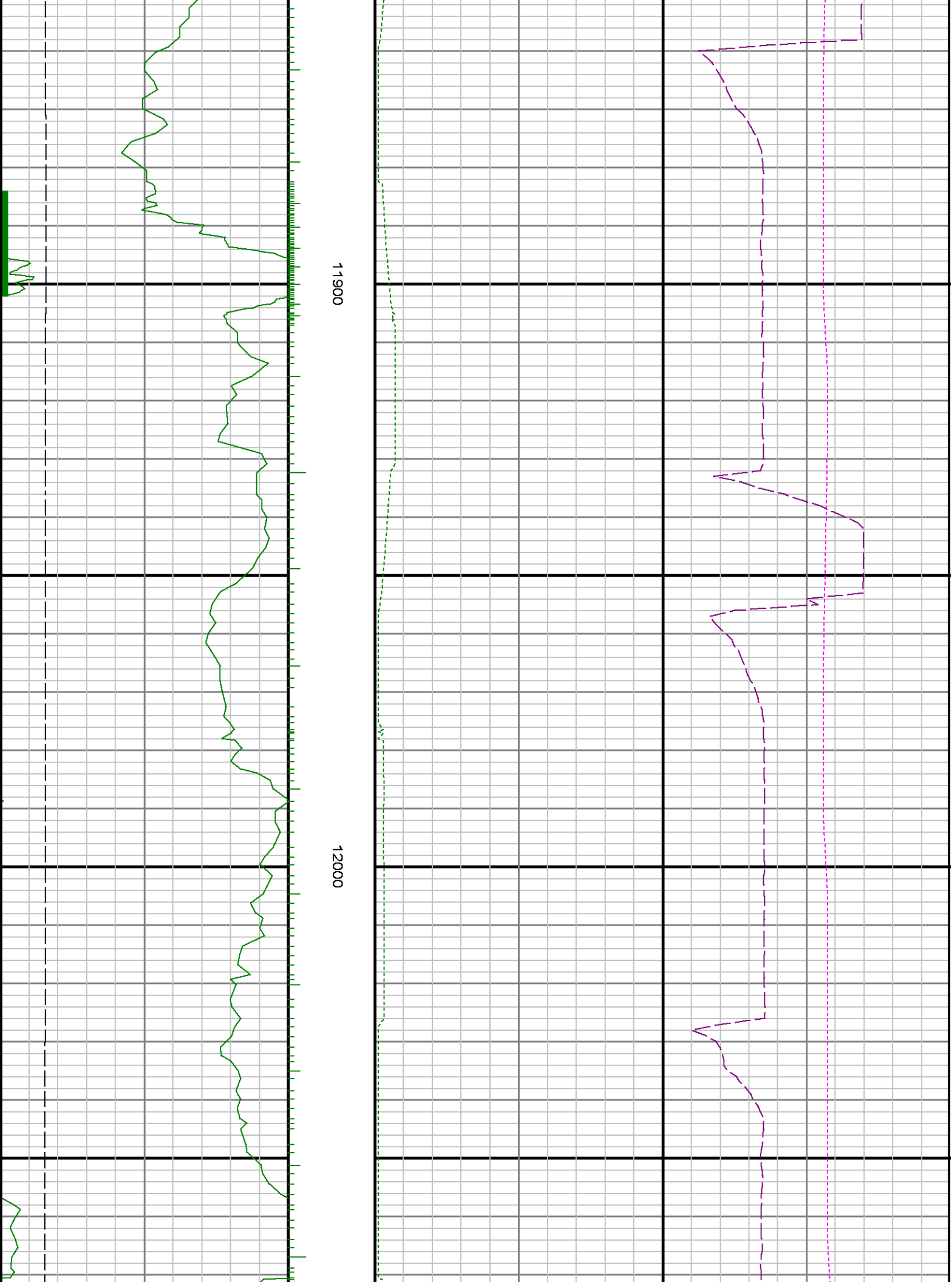


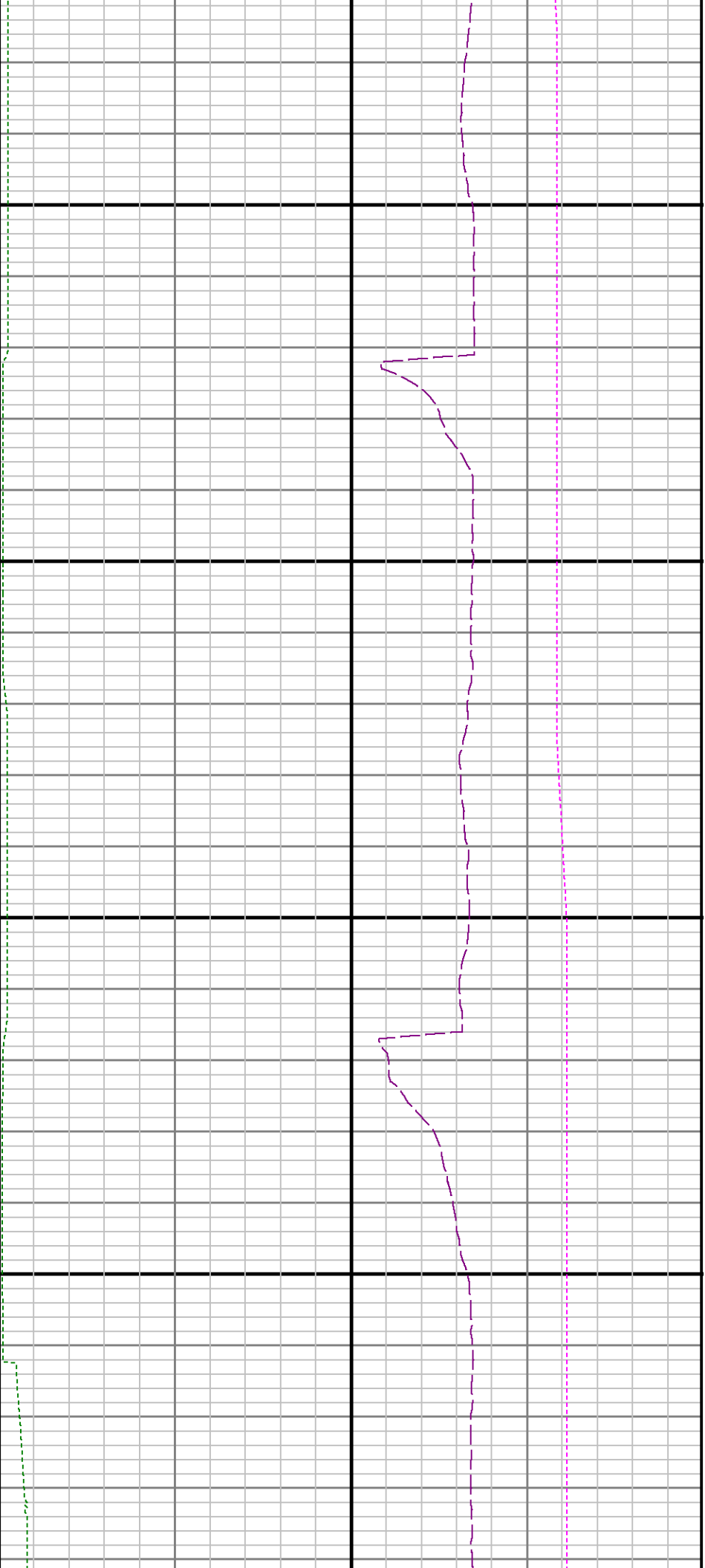






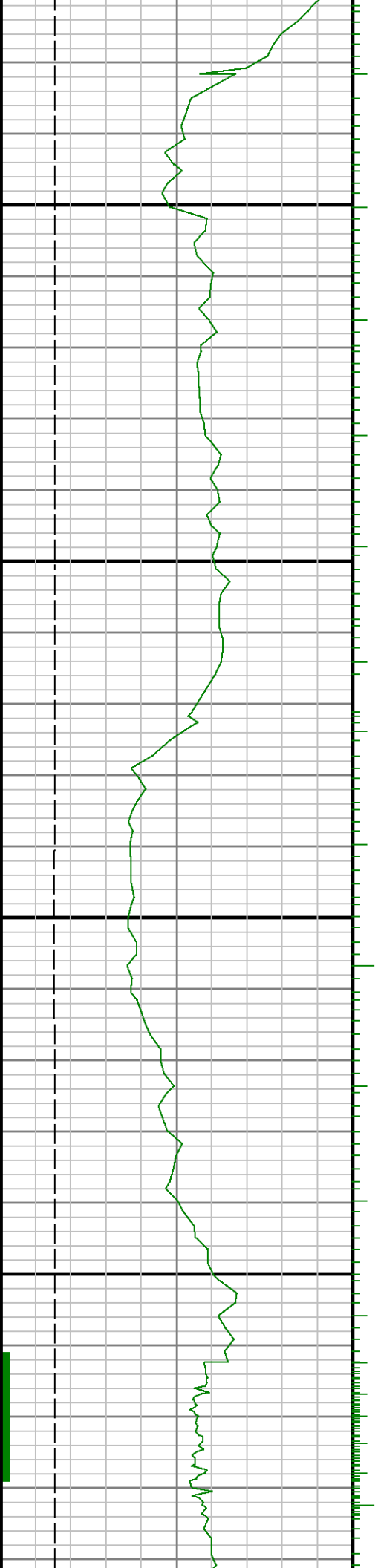


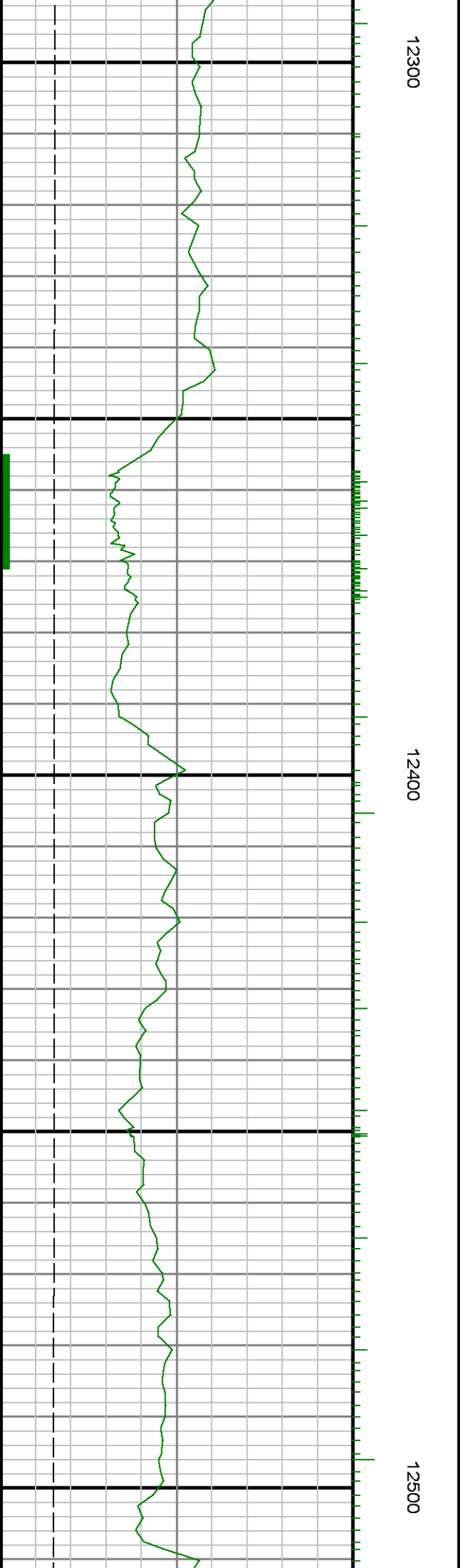


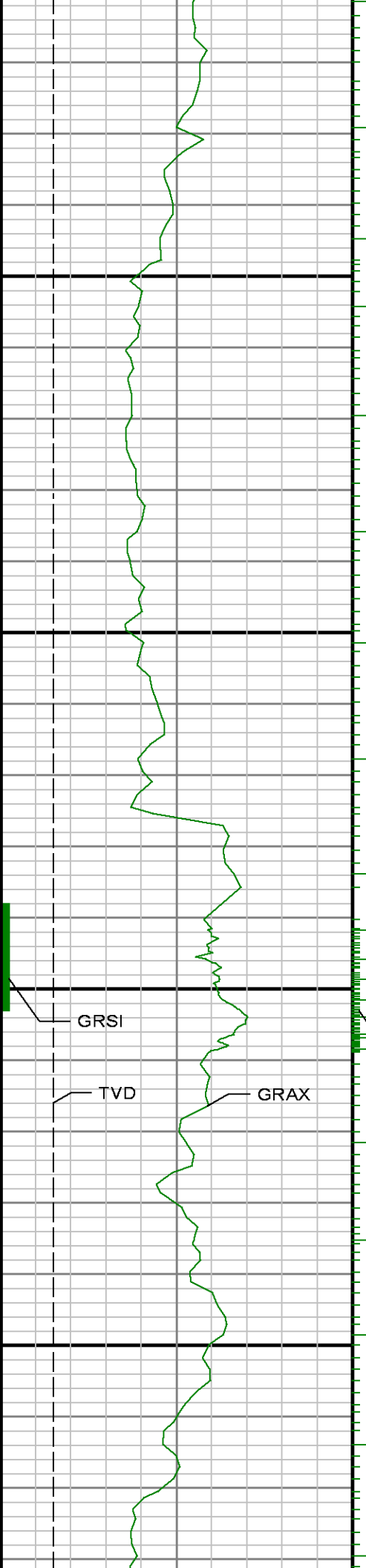


12100

12200

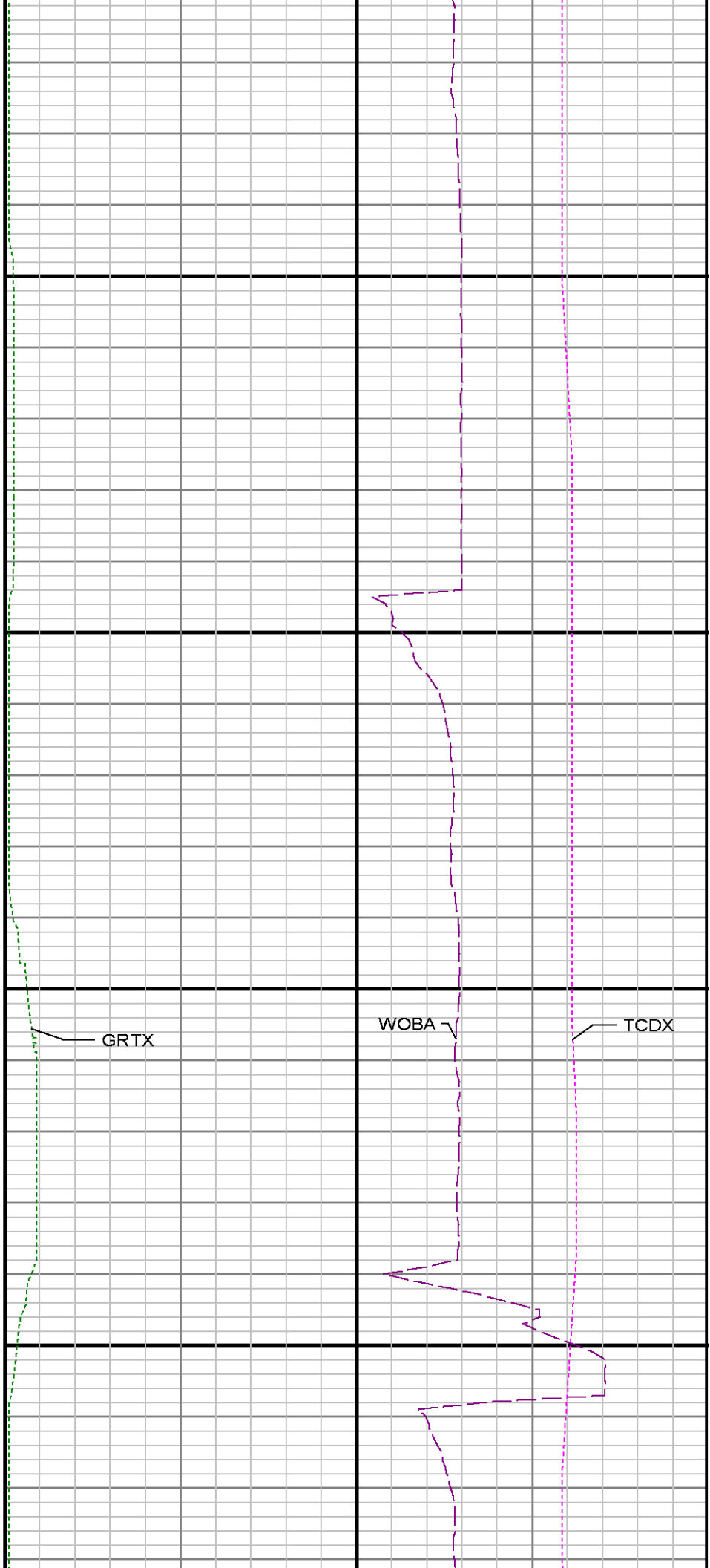






12600

12700



GRSI

TVD

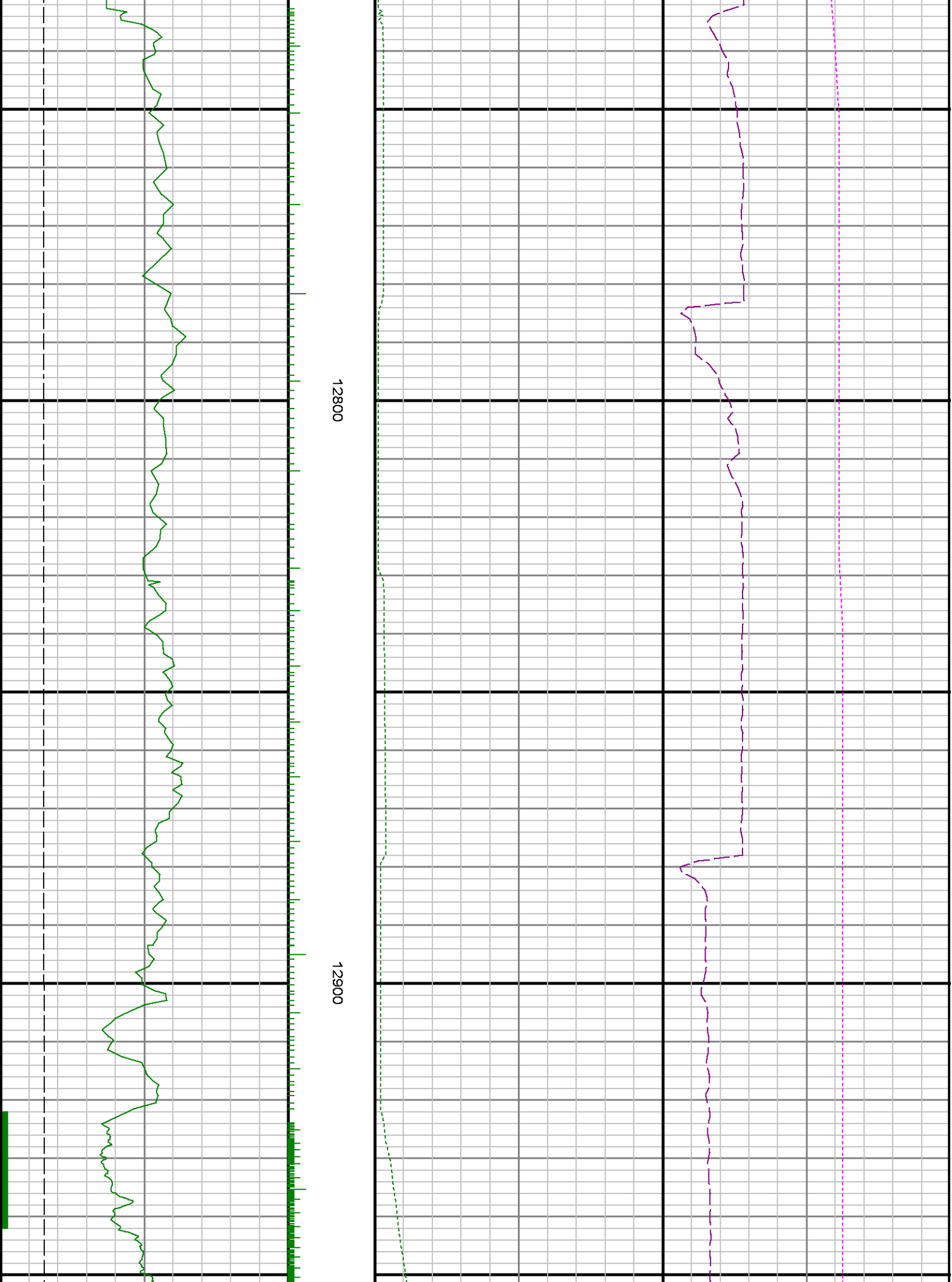
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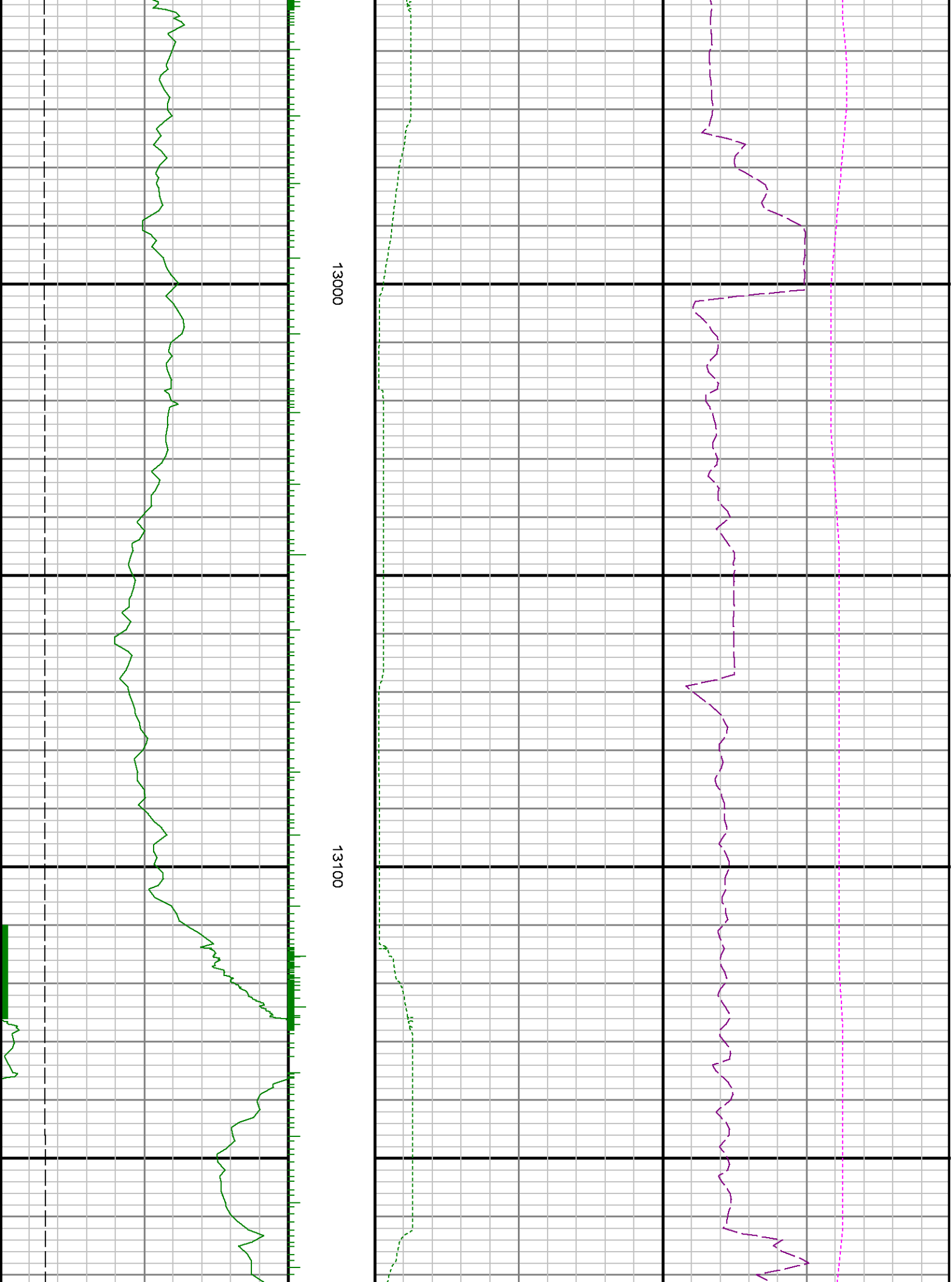
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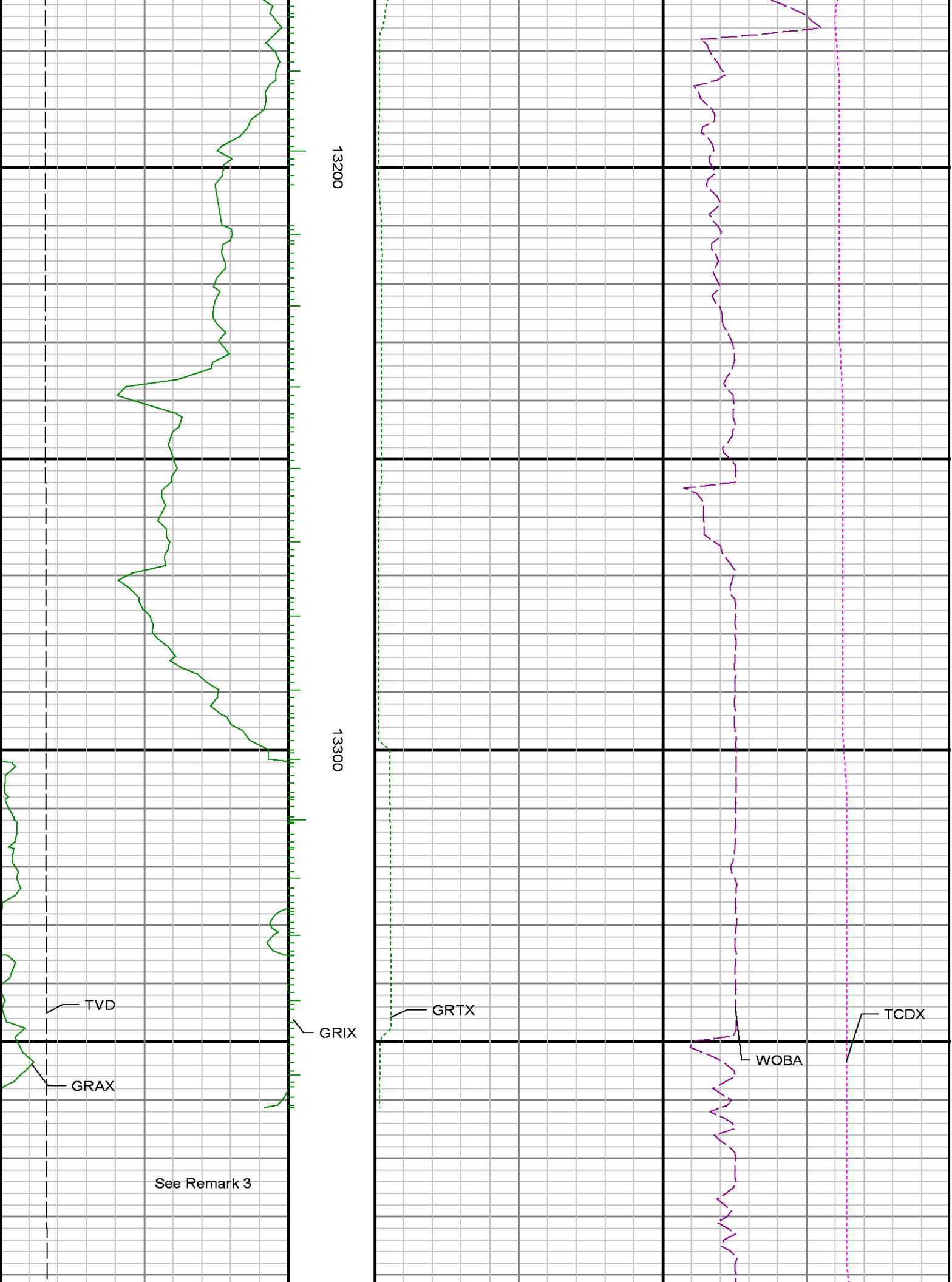
WOBA

TCDX









										Run 2 < 13400																													