Realtime Log

BAKER HUGHES

Natural Formation Evaluation
Gamma Ray

Scale: 1:240 Measured Depth

Company: Kerr-McGee Oil & Gas Onshore LP

Well: Barefoot 34C-25HZ

Field: Weld County (Kerr Mcgee)

Region: Continental US **Country:** United States

Status: **Final Print**

API Number: 05123392320000

Surface Location:
Latitude: 40° 11' 34.062" N
Longitude: 104° 56' 41.366" W
Section: 25 TWN: 3N Range 68W

Other Services:
Directional
VSS

Permanent Datum (P.D.):	Ground Level	Elevation:	4864.00 ft.
Log Measured From:	Kelly Bushing	16.00 ft.	Above P.D.
Depth Reference:	Driller's Depth		

Elevations:
KB: 4880.00 ft.
DF: N/A
GL: 4864.00 ft.

Interval Logged		Dates		Magnetic Field Reference			
Top:	6727 ft.	Date From:	14/Aug/14	Dip Angle:	66.88 °	Azi Reference North:	True
Bottom:	12521 ft.	Date To:	19/Aug/14	Total		Mag to Reference	
		Spud Date:	14/Aug/14	Field Strength:	52666.3 nT	North Correction:	8.67 °

Borehole Record

Hole Size	From	To
8.750 in.	1338 ft.	7661 ft.
6.125 in.	7661 ft.	12581 ft.

Casing Record

Size	Weight	From	To
9.625 in.	36.00 lb/ft	Surface	1328 ft.
7.000 in.	26.00 lb/ft	Surface	7751 ft.

Mud Record

Type	From	To
Drill Water	Surface	7661 ft.
LSND	7661 ft.	12581 ft.

Deviation Record

Hole Size	Interval	Inc / Az (Start)	Inc / Az (End)
8.750 in.	6423 ft.	0.4° / 131.1 °	80.6 ° / 269.3 °
6.125 in.	4890 ft.	90.2 ° / 271.1 °	88.6 ° / 267.5 °
		/	/
		/	/
		/	/
		/	/

Acquisition System	Software Version	Other	
Advantage	2.20U4	Rig: / Contractor:	Xtreme 24 / Xtreme Drilling
PATS	6.4.1.34	Job No:	6563277
		District: / Unit:	RMD / D & E

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 Top (ft.)	Logged Interval Bottom (ft.)	Bit Depth Interval From (ft.)	Bit Depth Interval To (ft.)	Date / Time Start	Date / Time End	Circ. Time (hrs.)
1	1	1	8.750	PDC	2.000	Steerable	6727	7602	1338	7661	14/Aug/2014 01:30	15/Aug/2014 22:30	31.6
2	2	2	6.125	PDC	6.000	Steerable	7602	12521	7661	12581	16/Aug/2014 17:30	169/Aug/2014 04:00	37.5

Crew

Name	Depart	Arrive	Name	Depart	Arrive	Name	Depart	Arrive
Andrew Overbey	19/Aug/2014	13/Aug/2014	Greg Mouton	Wellsite	Wellsite		Wellsite	Wellsite
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite
	Wellsite	Wellsite		Wellsite	Wellsite		Wellsite	Wellsite

Mud Properties Record

Date / Time	LWD Run No.	Measured Depth (ft.)	Mud Type	Density (ppg)	Viscosity (sec/qt)	pH	Fluid Loss (cc)	Oil / Water	Source	Total Chlorides (ppm)	K+ (%)
13/Aug/2014 16:00	1	1338	Drill Water	8.4	30	8.1	N/A	0 / 99	Active Mud Pits	1800	N/A
14/Aug/2014 18:00	1	4250	Drill Water	8.5	29	8.2	N/A	1 / 98	Active Mud Pits	1600	N/A
15/Aug/2014 18:00	1	7661	LSND	10.5	43	9.5	N/A	3 / 88	Active Mud Pits	2000	N/A
17/Aug/2014 18:00	2	10352	LSND	9.7	45	9.4	N/A	3 / 88	Active Mud Pits	1600	N/A
18/Aug/2014 18:00	2	12581	LSND	9.9	45	9.6	N/A	5 / 86	Active Mud Pits	1600	N/A

Mnemonics

Curve	Description	Units
GRAX	Gamma Ray Apparent 0.5 ft AVG	API
GRIX	Gamma Ray Data Density	points
GRSI	Gamma Ray Sliding Indicator	unitless
GRTX	Gamma Ray Time Since Drilled	min.
ROPA	Rate of Penetration, 3.0 ft Avg	ft/hr
TCDX	Downhole Temperature	degF
TVD	True Vertical Depth	ft.
WOBA	Surface Weight on Bit, 1.0 ft Avg	klbs

Equipment and Service Data

LWD Run No.	Tool	Serial Number	Measurement	Bit Offset (ft.)	Max O.D. (in.)	Min I.D. (in.)
1	DIR	12600743	Directional	61.72	6.750	2.688
1	SRIG	12064844	Gamma	58.34	6.750	2.688
2	DIR	11924683	Directional	61.49	4.750	0.000
2	SRIG	11924683	Gamma	58.11	4.750	0.000

Service and Tool Mnemonics

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

Comments

1.) Baker Hughes Run 1 utilized a 6 1/2 inch NaviTrak (Directional only) tool behind an 8 3/4 inch bit and steerable assembly from 1338 feet to 6727 feet MD (1338 feet to 6576 feet TVD).

2.) Baker Hughes Run 1 utilized a 6 1/2 inch NaviGamma (Directional and Gamma Ray) tool behind an 8 3/4 inch bit and steerable assembly from 6727 feet to 7661 feet MD (6576 feet to 7200 feet TVD).

3.) Baker Hughes Run 2 utilized a 4 3/4 inch NaviGamma (Directional and Gamma Ray) tool behind a 6 1/8 inch bit and steerable assembly from 7661 feet to 12581 feet MD (7200 feet to feet 7211 TVD).

4.) A sliding indicator is shown on the left side 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 (ft.)	Hole Section (in.)	LWD Run No.	Remark
1	6727	8.750	1	The interval from surface to 6727 feet MD (6576 feet TVD) was not logged since logging services began at kick off point.
2	7602	8.750	1	The Interval from 7602 feet to 7664 feet MD (7194 feet to 7201 feet TVD) was logged more than 18 hours after drilling due to tripping for casing and picking up lateral BHA.
3	12521	6.125	2	The interval from 12521 feet to 12581 feet MD (7209 feet to 7211 feet TVD) was not logged due to gamma sensor to bit offset at TD.

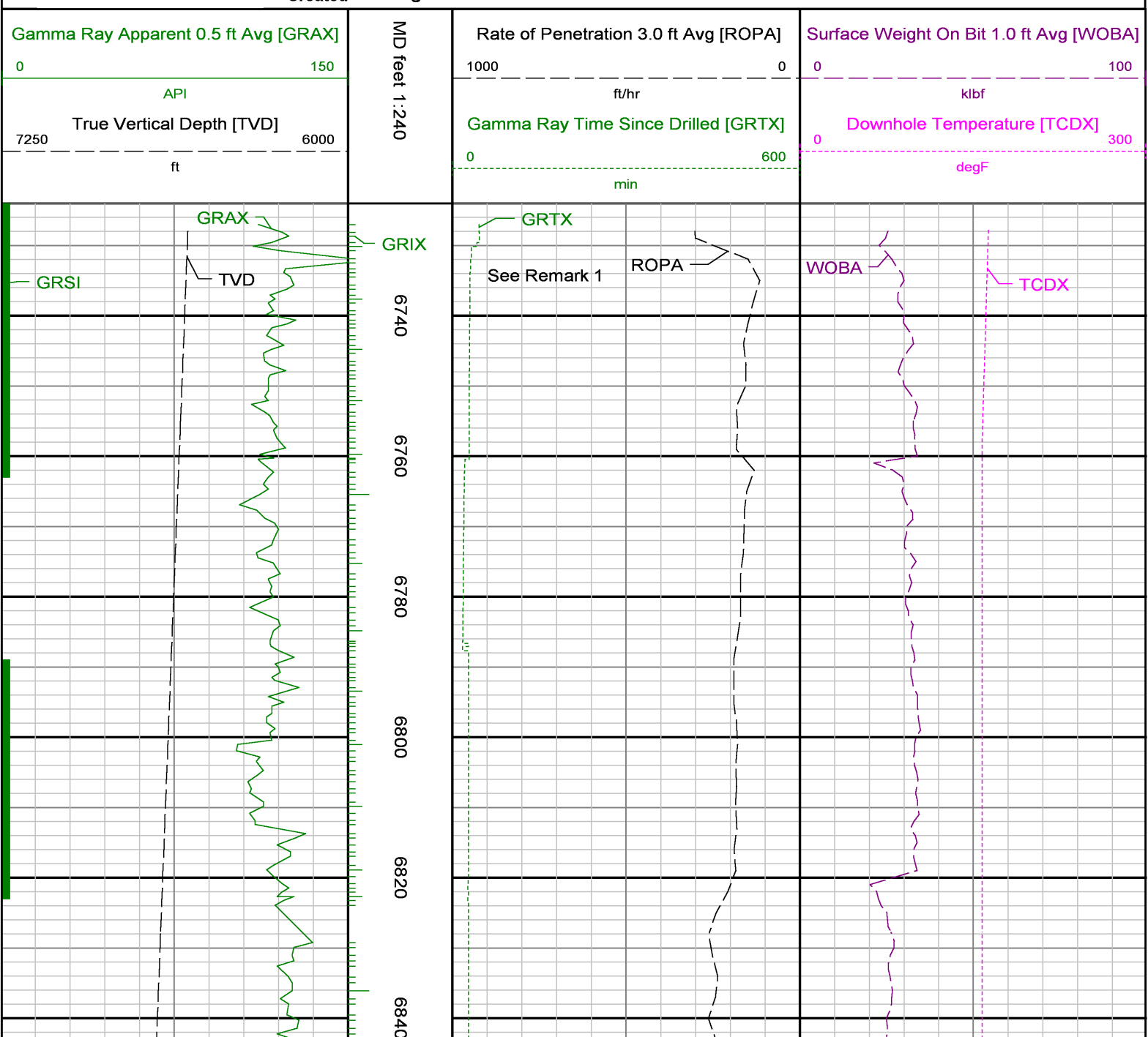
BAKER HUGHES

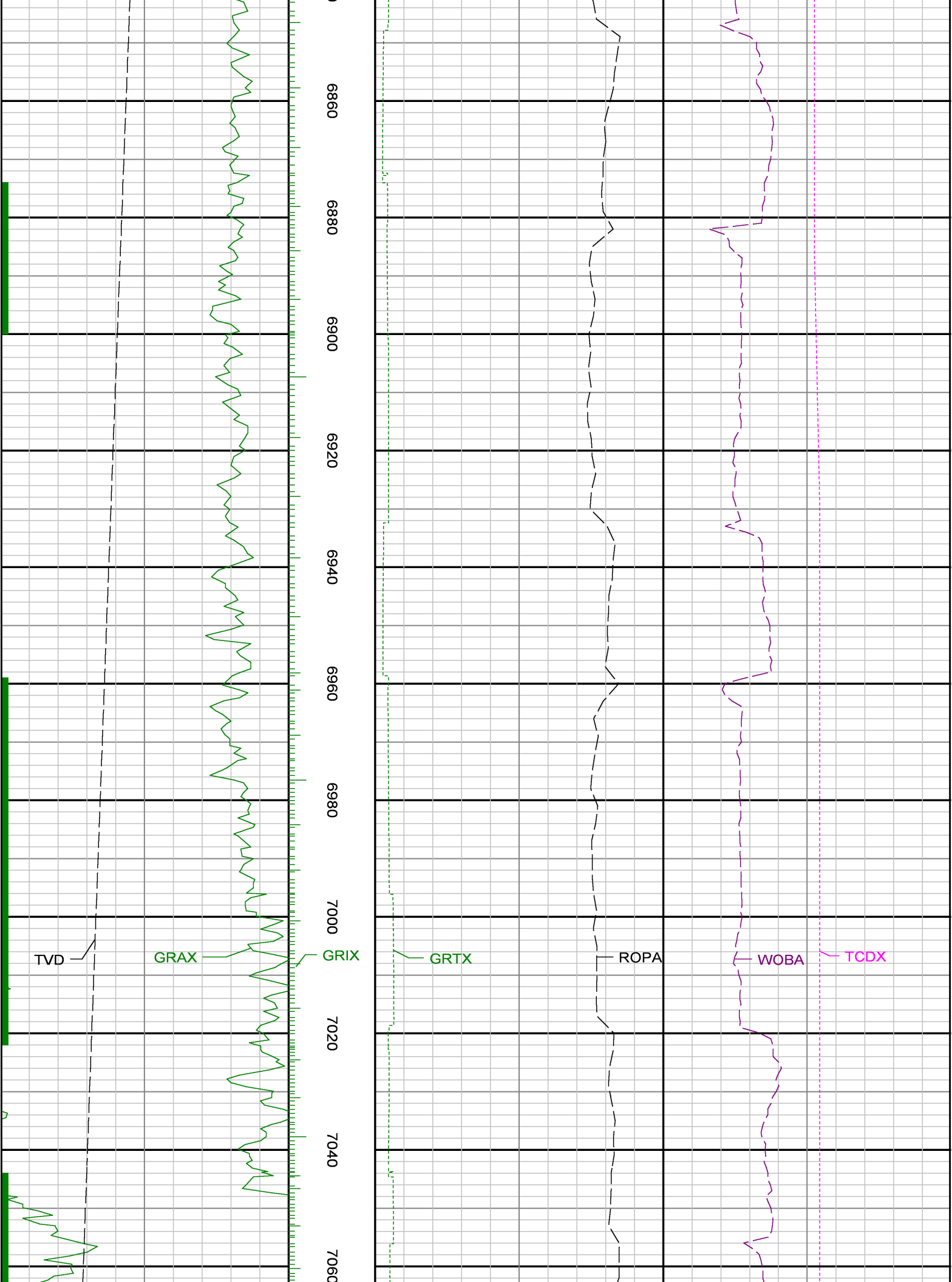
Company : Kerr McGee Oil & Gas Onshore LP

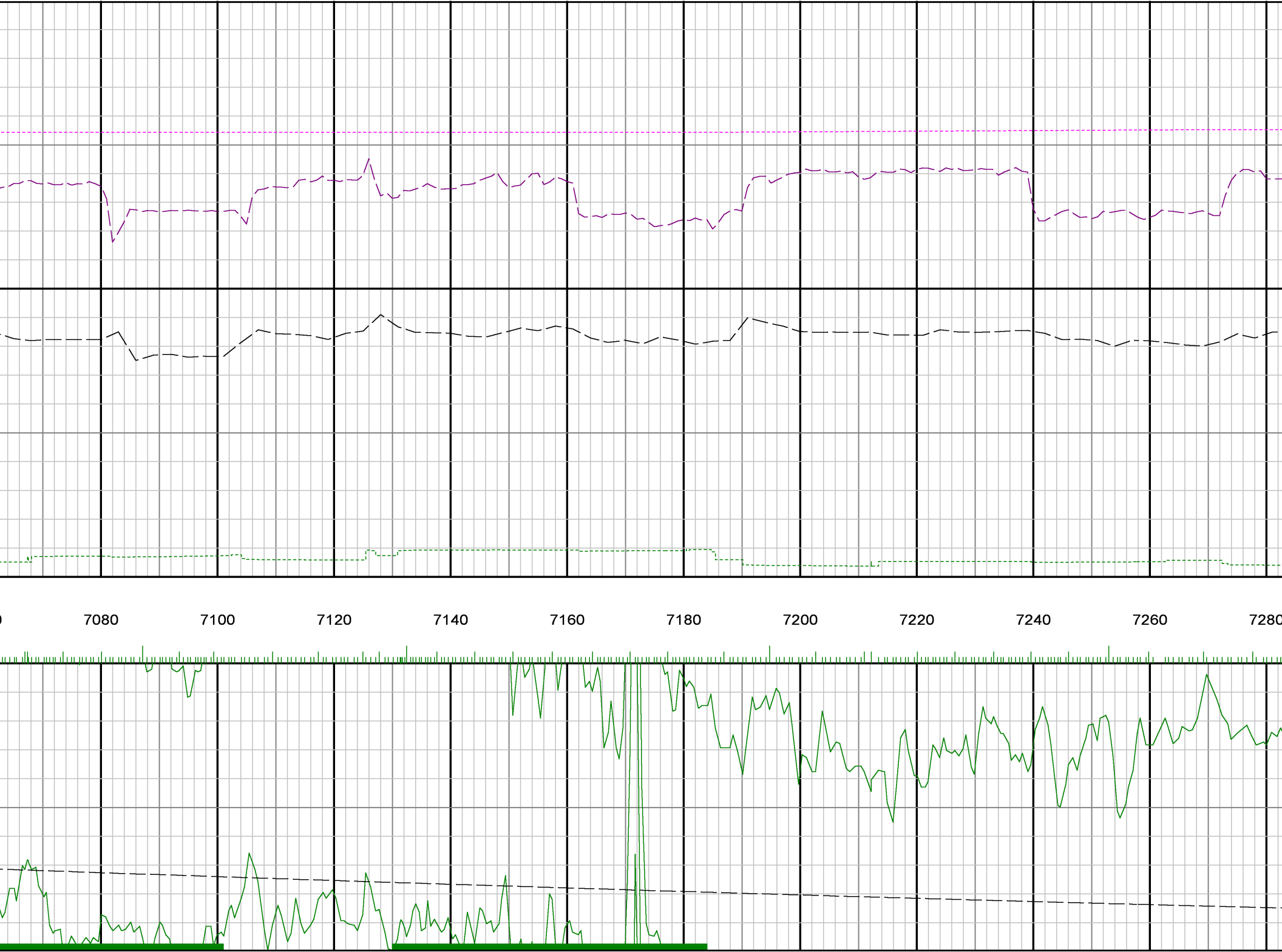
Well : Barefoot 34C-25HZ

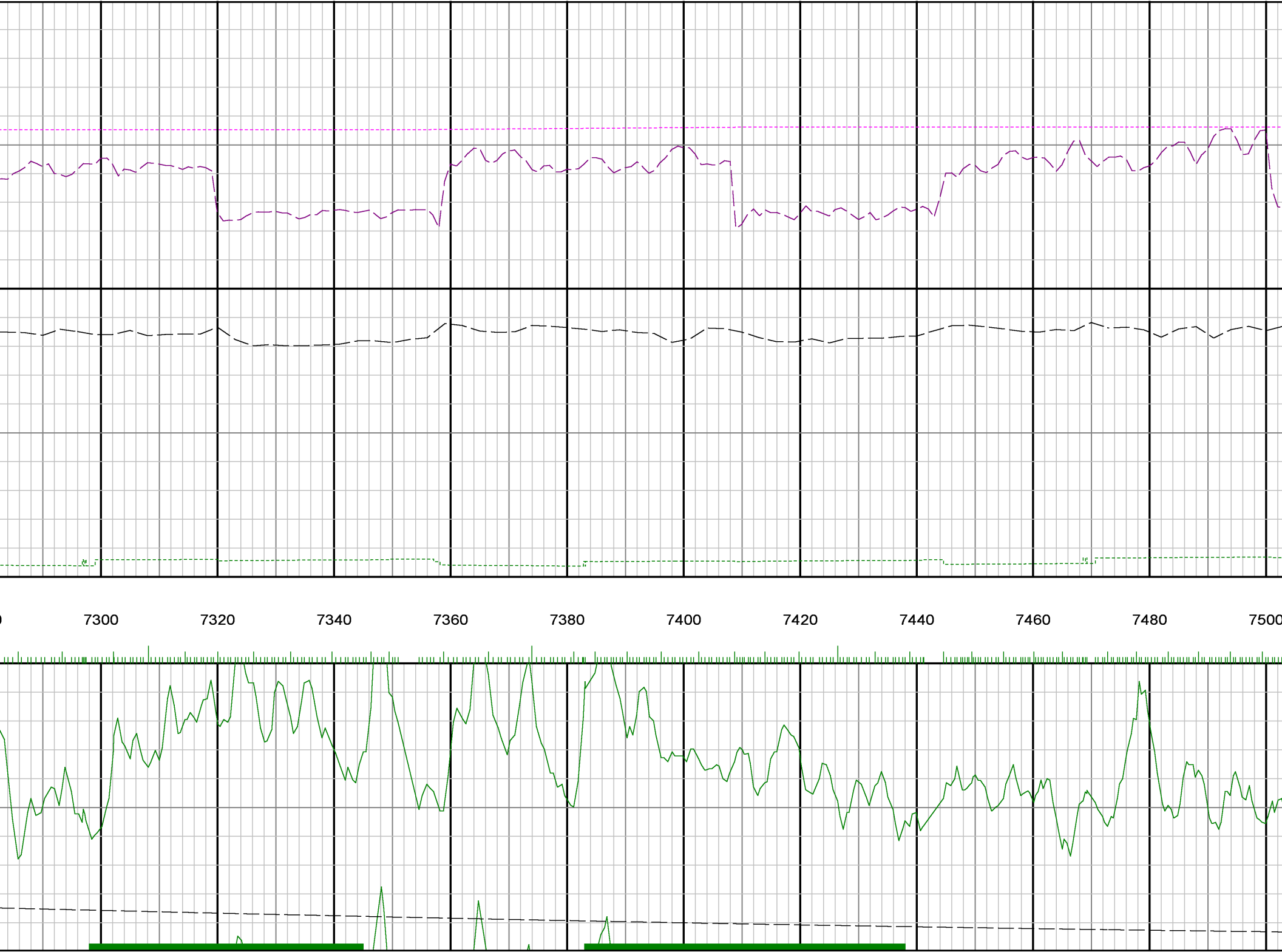
Interval : 6724.00 - 12584.00 feet

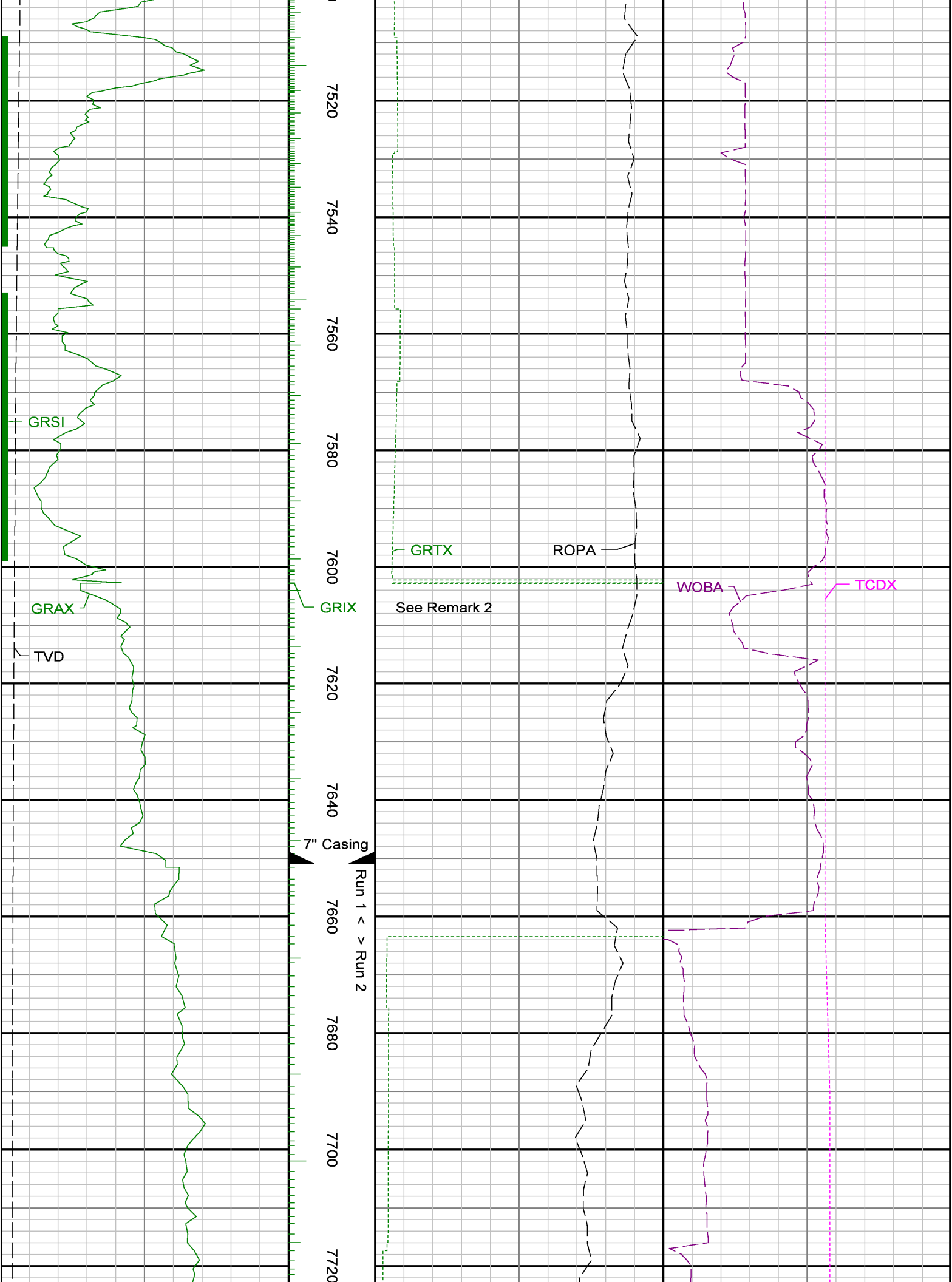
Created : 18/Aug/2014 8:47:09 PM

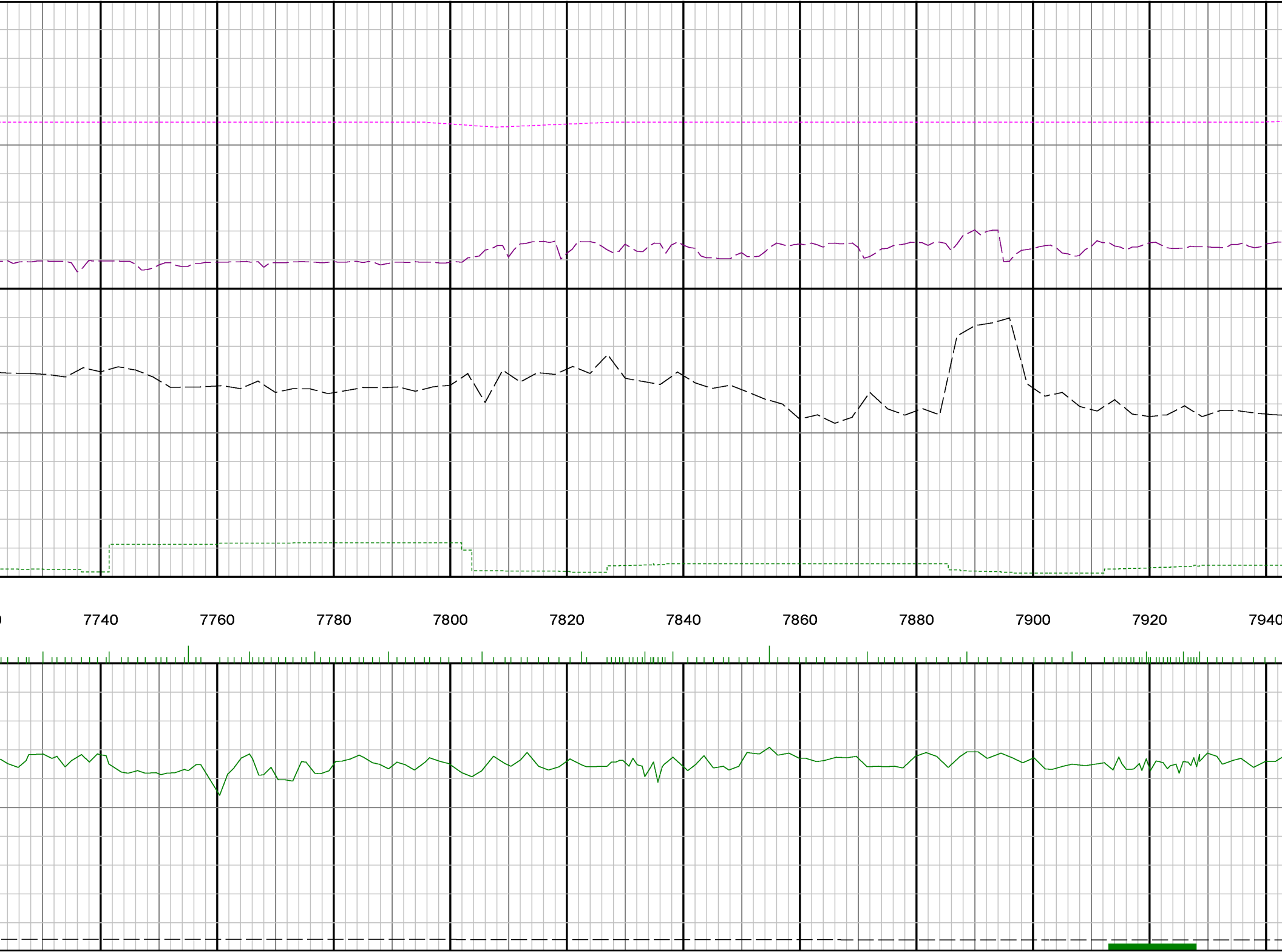


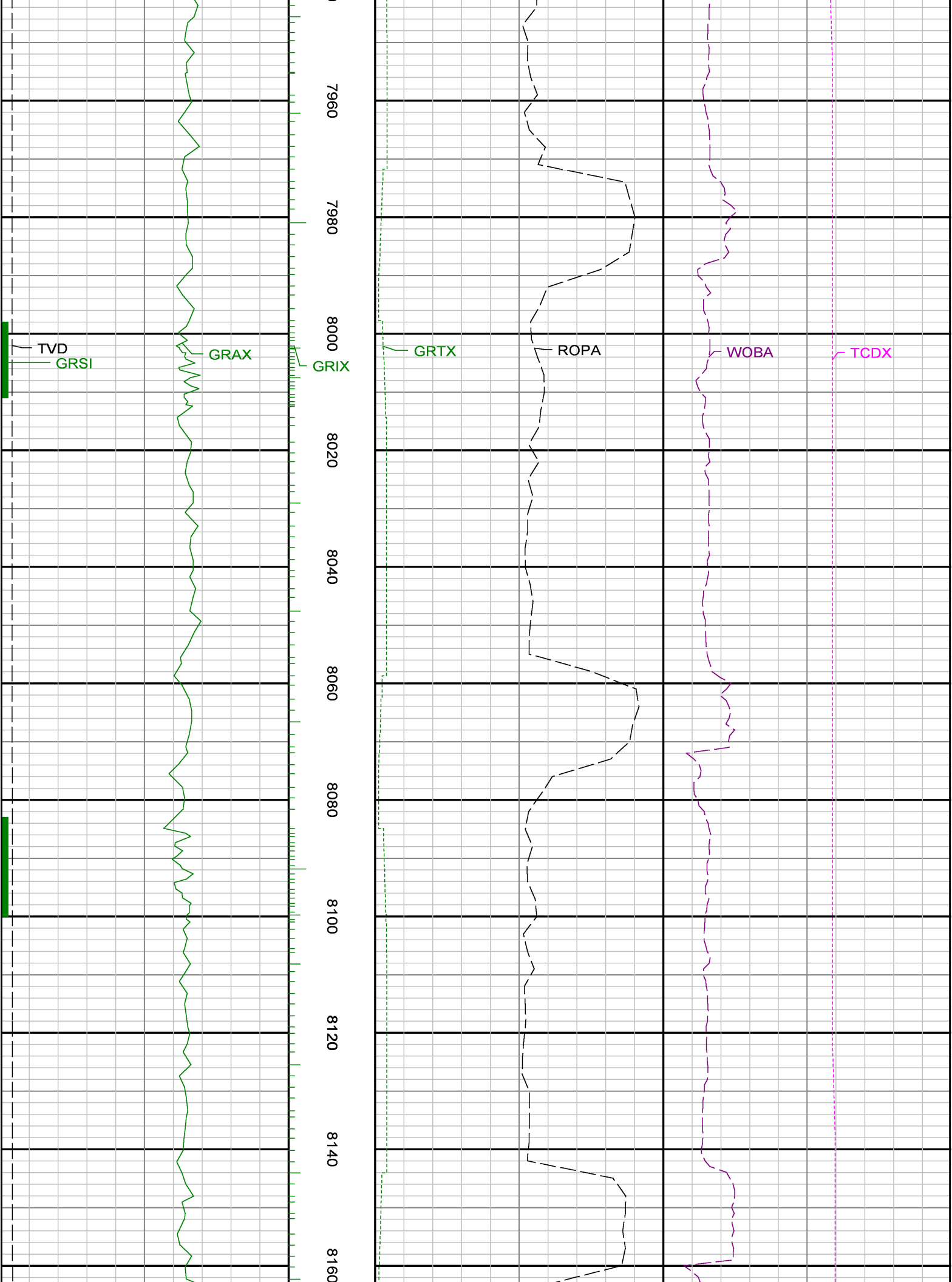

6860
6880
6900
6920
6940
6960
6980
7000
7020
7040
7060
TVD
GRAX
GRIX
GRTX
ROPA
WOBA
TCDX

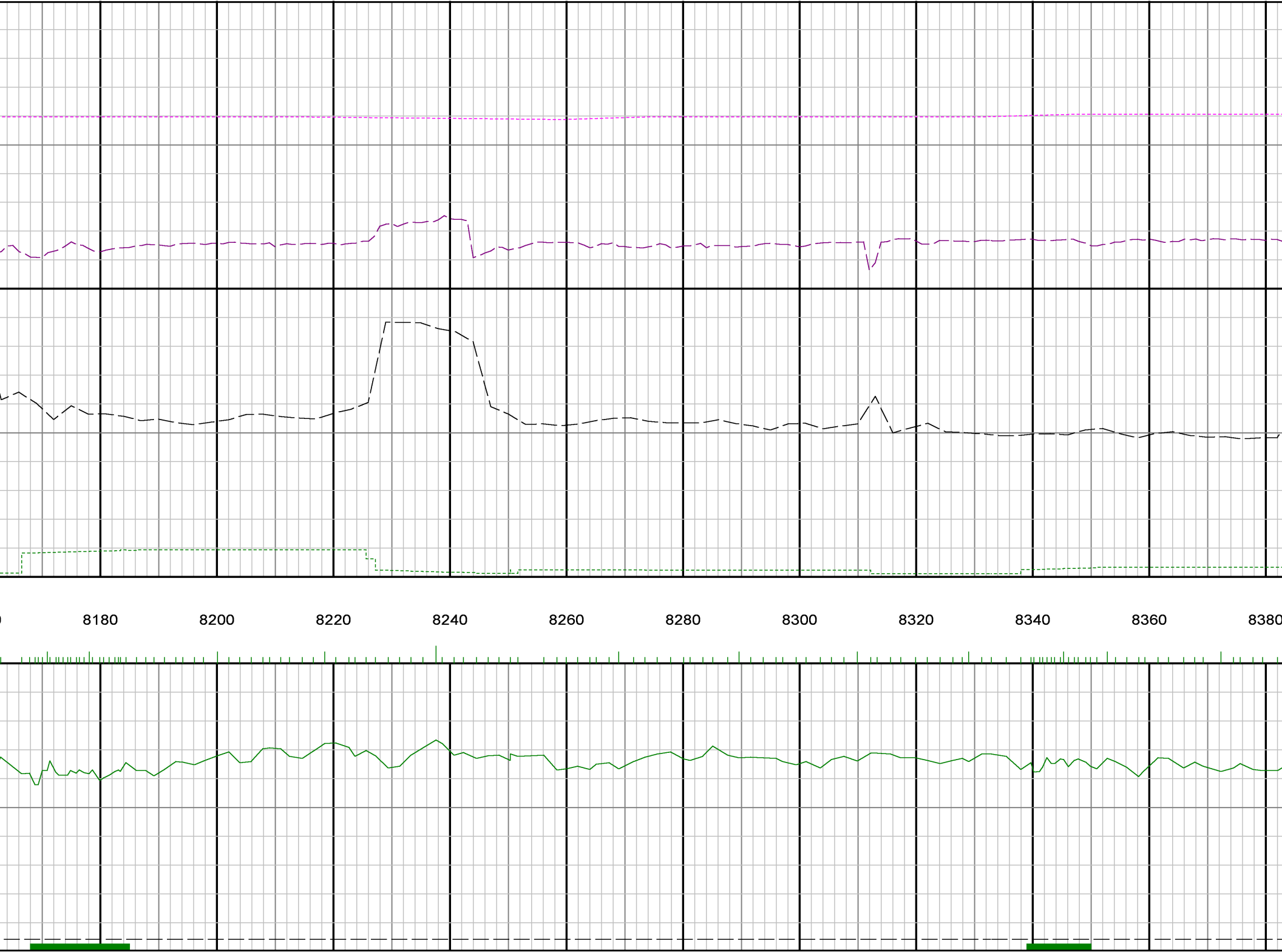

7080
7100
7120
7140
7160
7180
7200
7220
7240
7260
7280

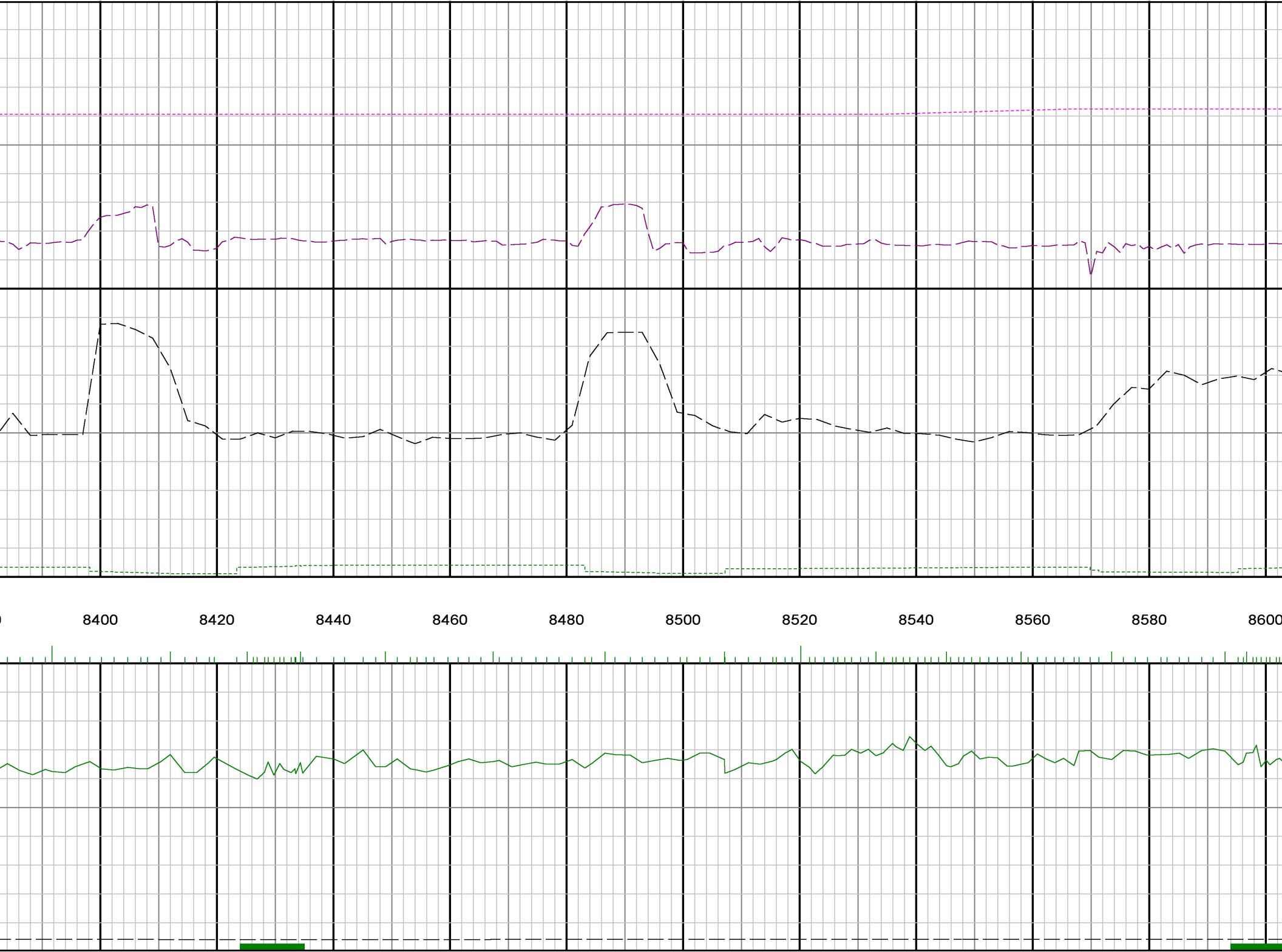

7300
7320
7340
7360
7380
7400
7420
7440
7460
7480
7500

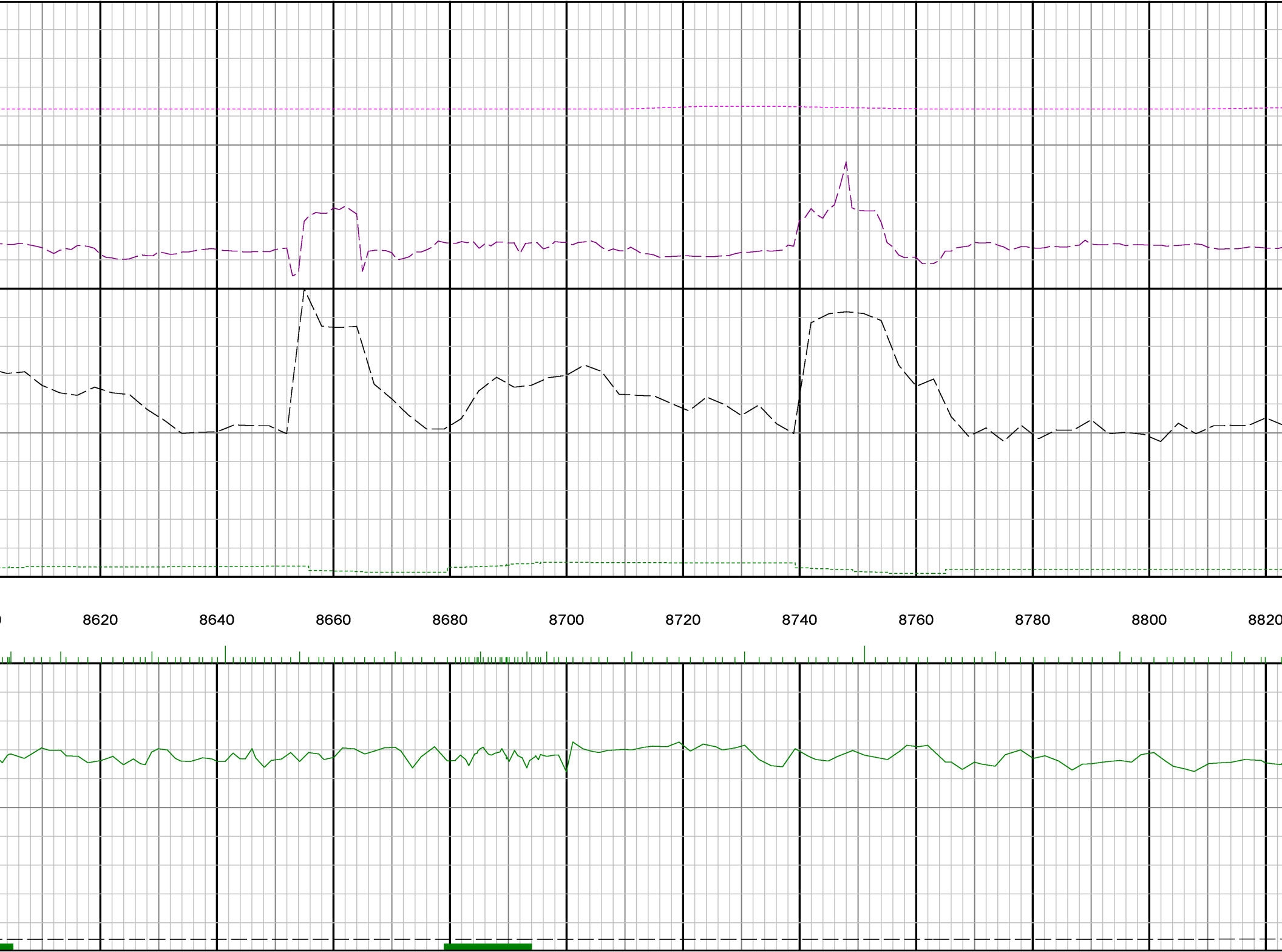

7520
7540
7560
7580
7600
7620
7640
7660
7680
7700
7720
GRSI
GRAX
TVD
GRIX
GRTX
ROPA
WOBA
TCDX
See Remark 2
7" Casing
Run 1 < > Run 2

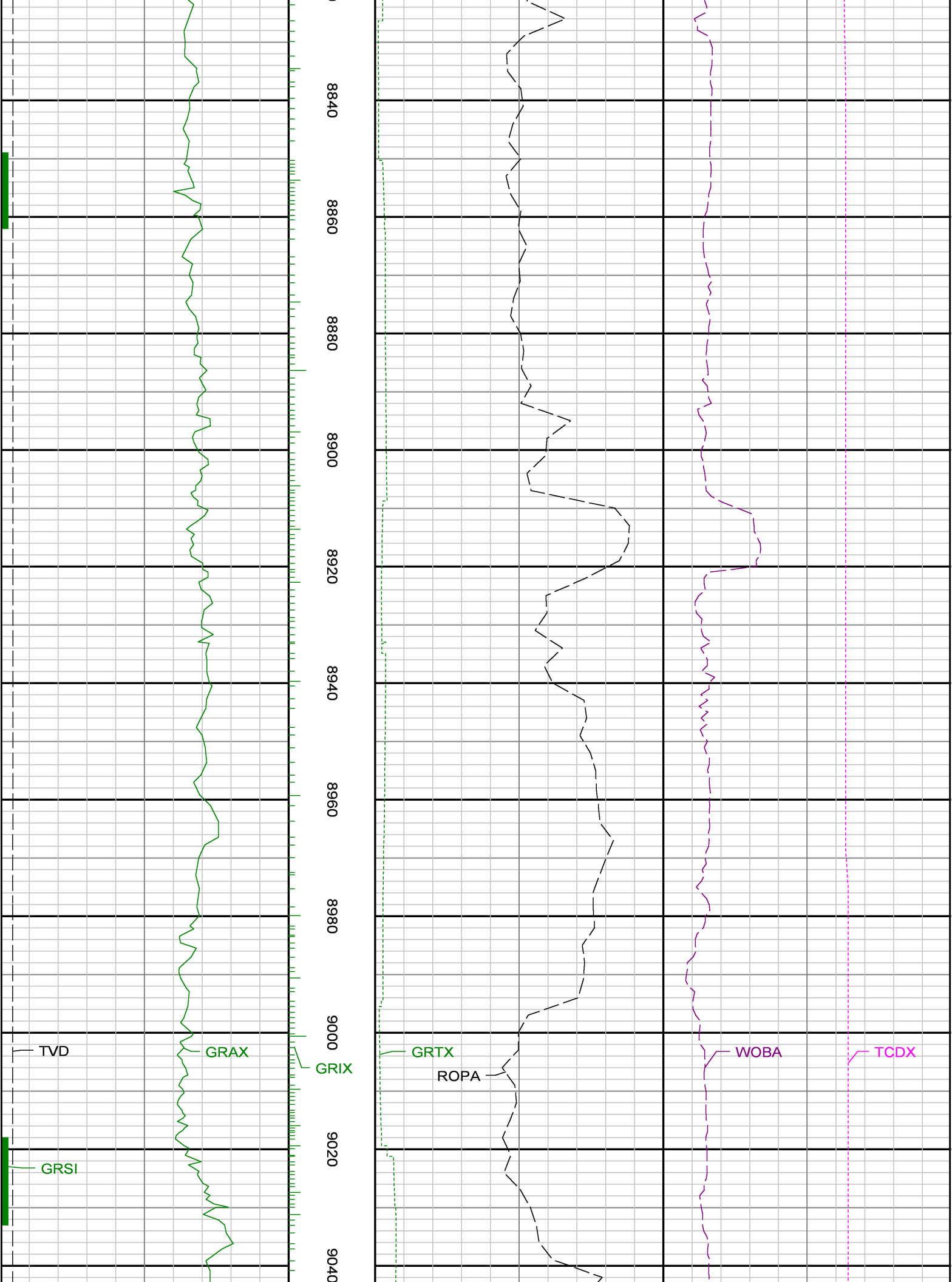

7740
7760
7780
7800
7820
7840
7860
7880
7900
7920
7940

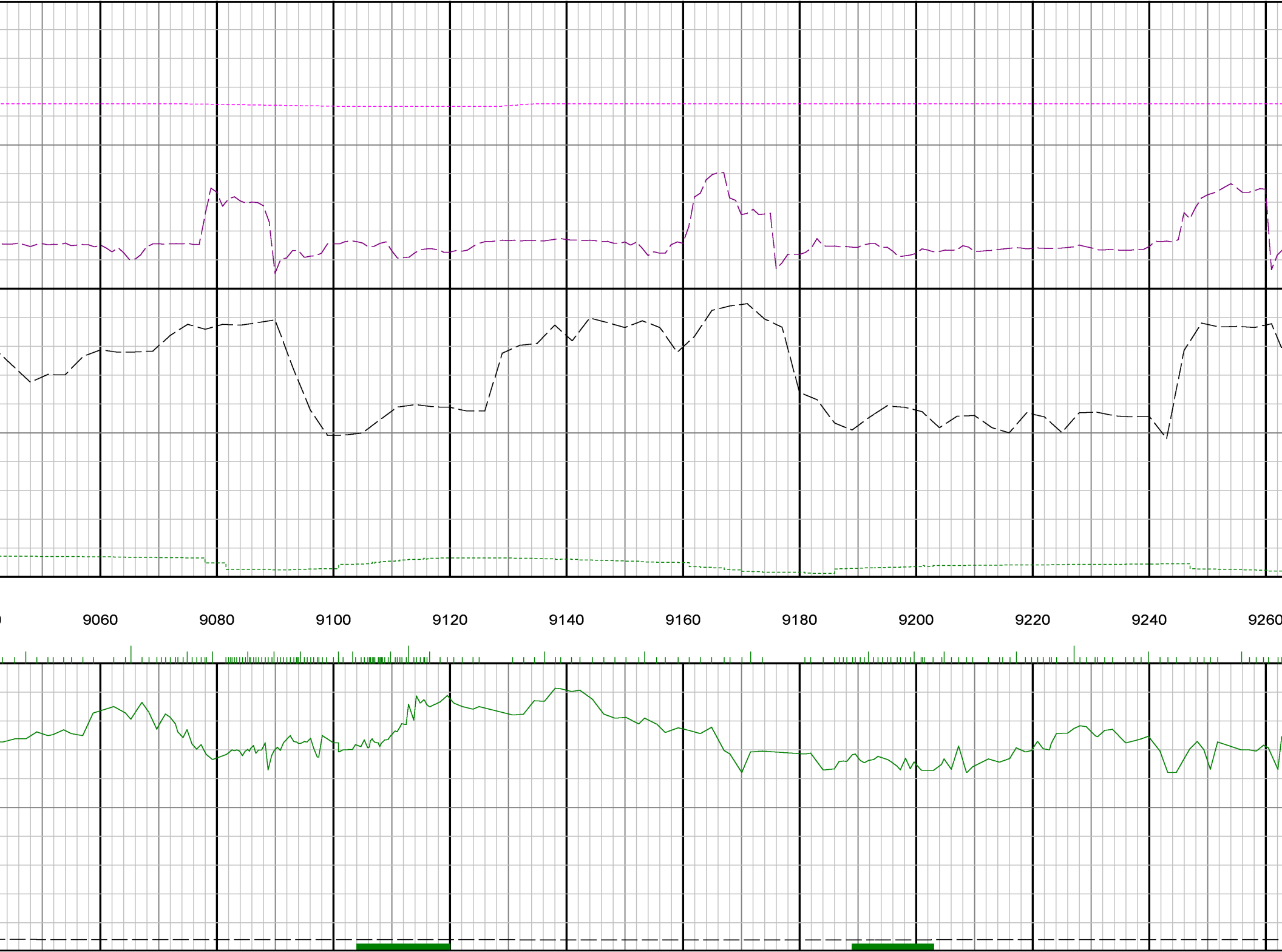

TVD
GRSI
GRAX
GRIX
GRTX
ROPA
WOBA
TCDX
7960
7980
8000
8020
8040
8060
8080
8100
8120
8140
8160

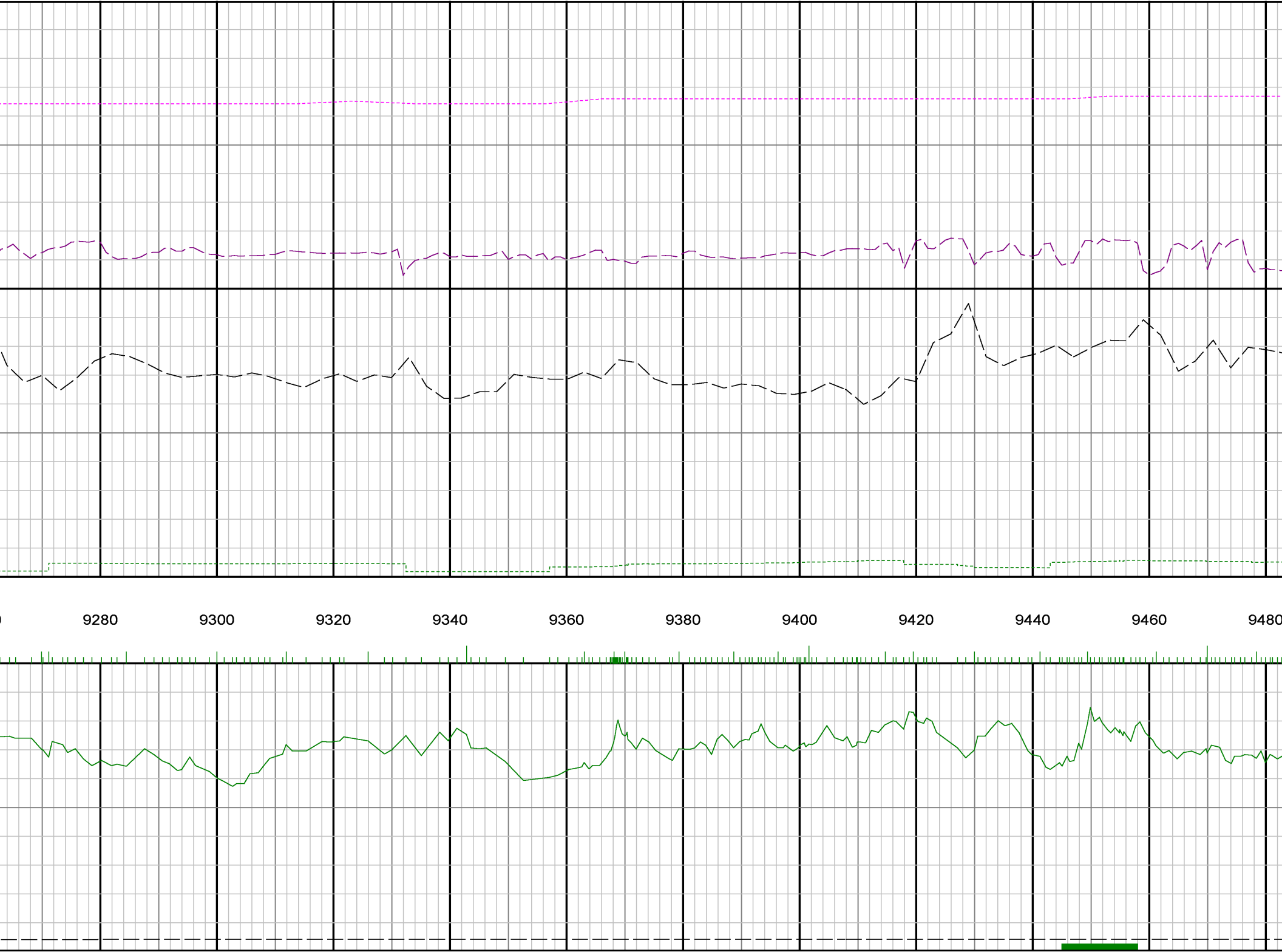

8180
8200
8220
8240
8260
8280
8300
8320
8340
8360
8380

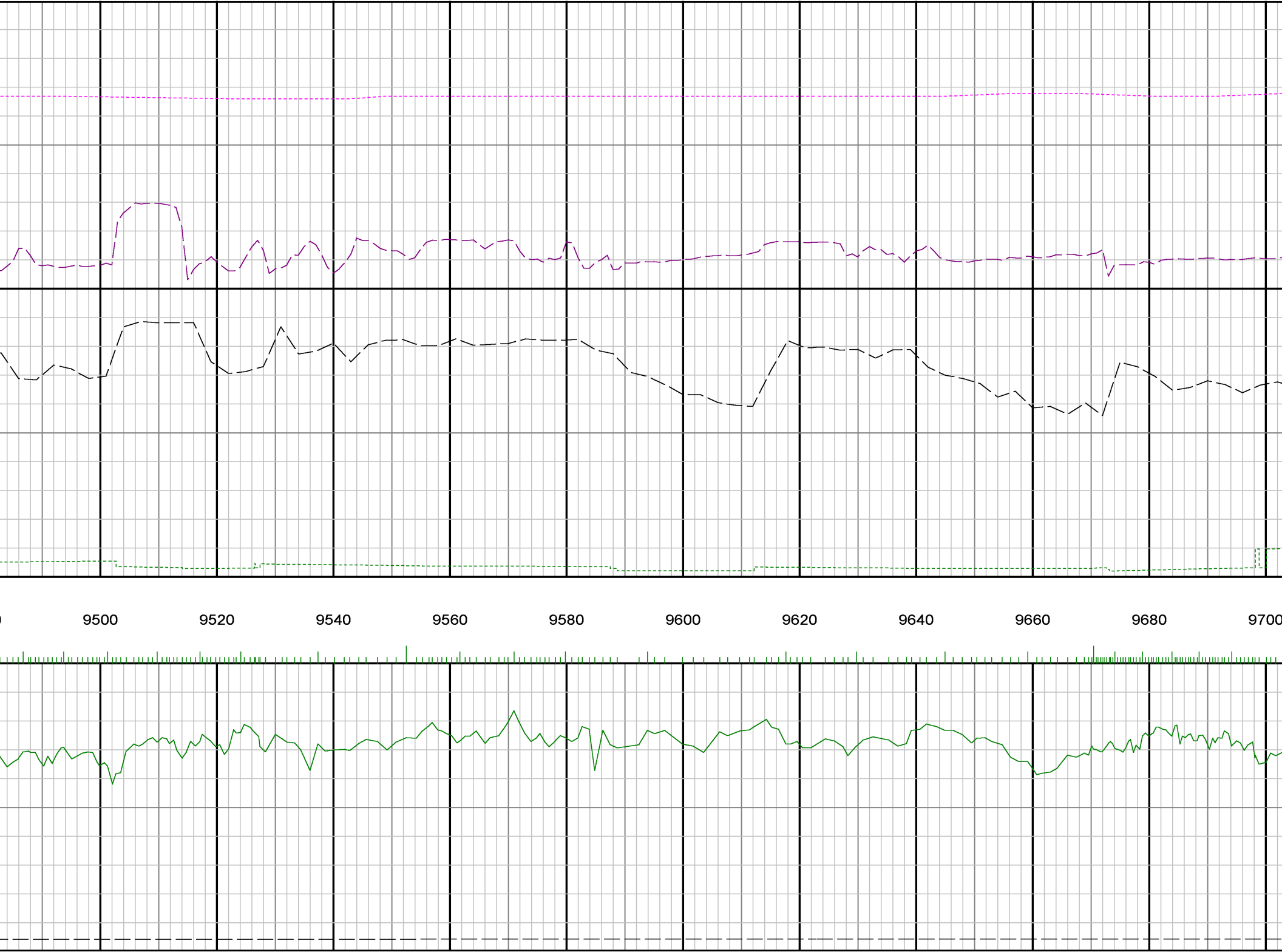

8400
8420
8440
8460
8480
8500
8520
8540
8560
8580
8600

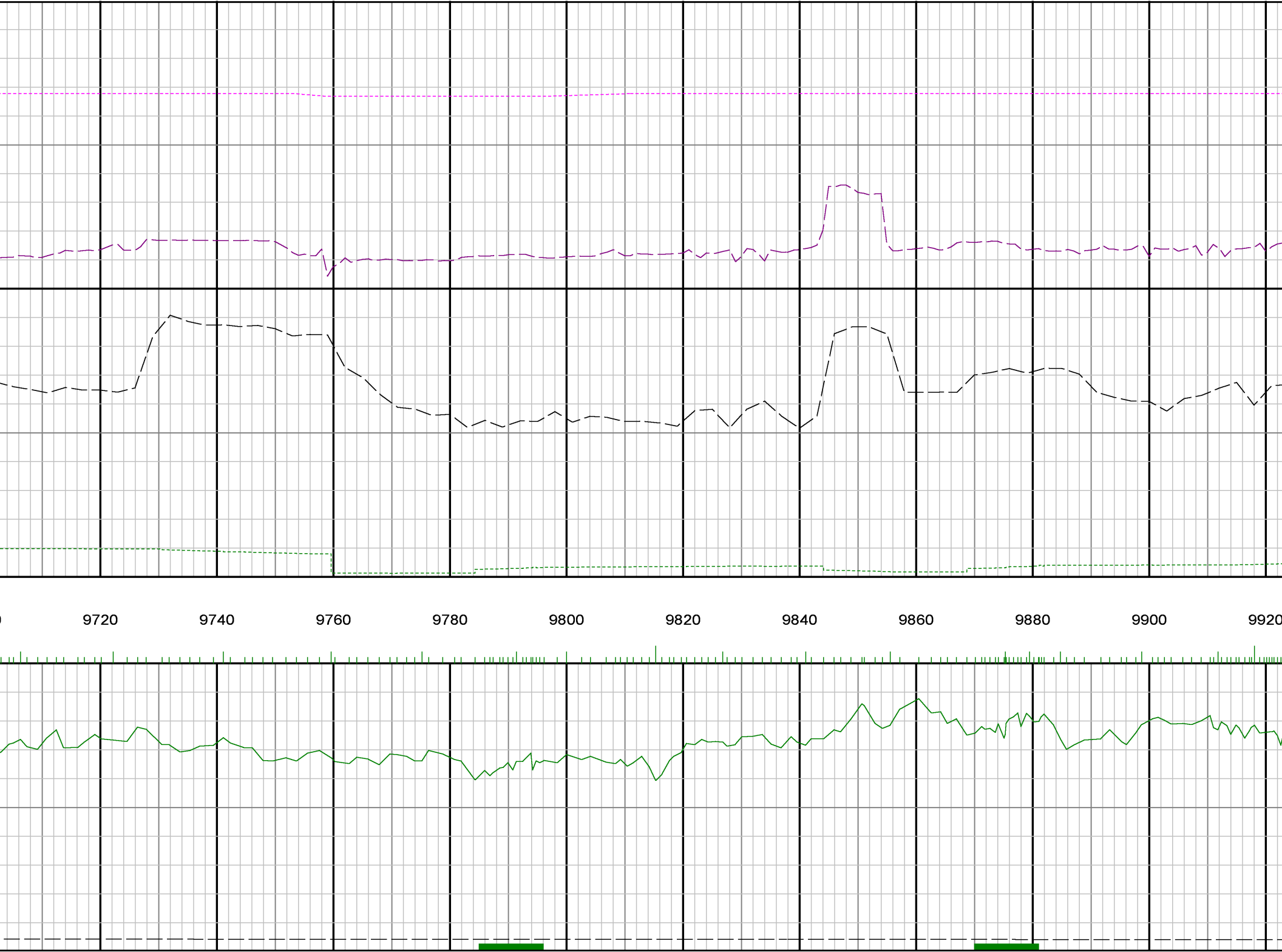

8620
8640
8660
8680
8700
8720
8740
8760
8780
8800
8820

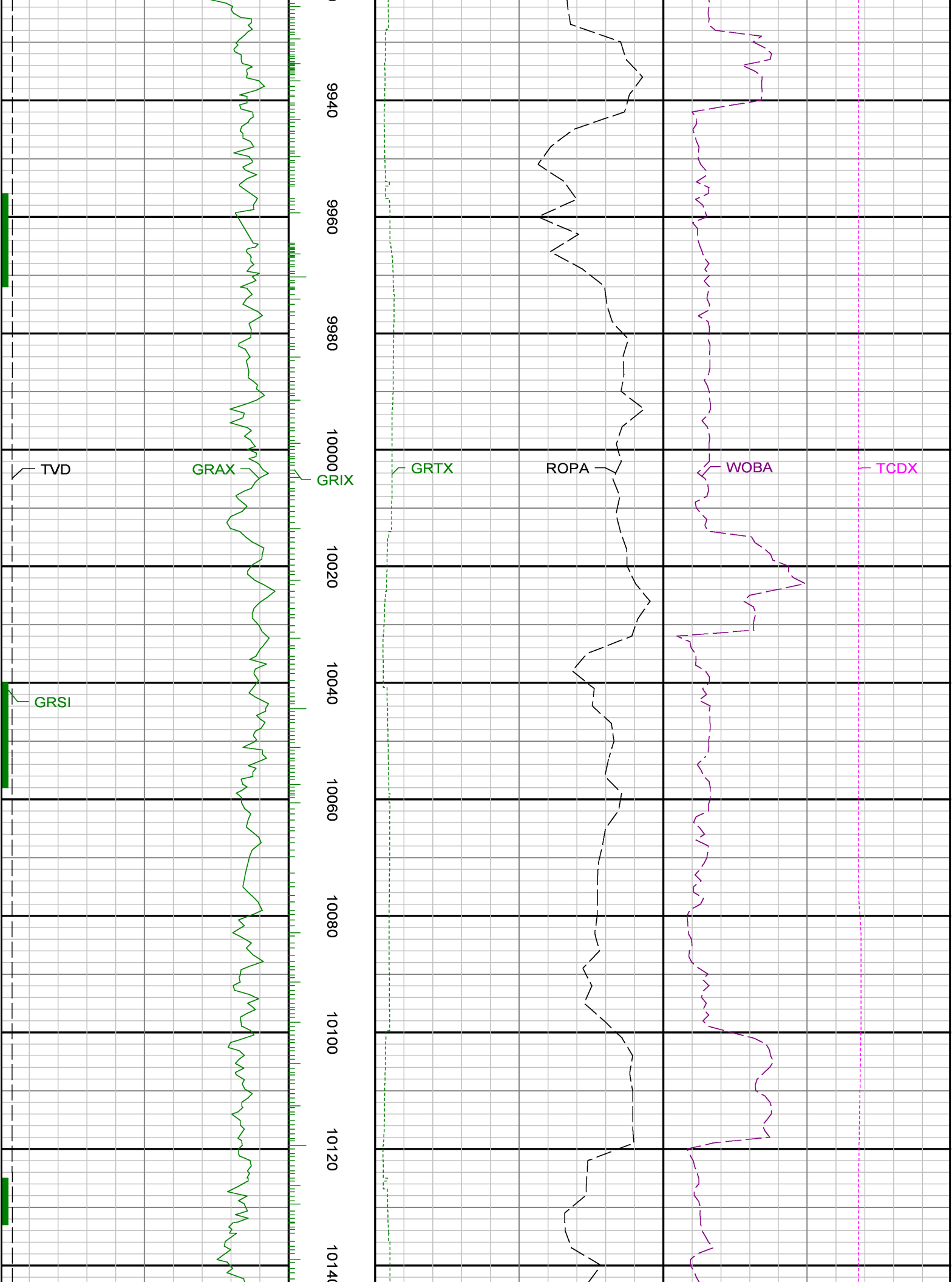

8840
8860
8880
8900
8920
8940
8960
8980
9000
9020
9040
TVD
GRAX
GRIX
GRSI
GRTX
ROPA
WOBA
TCDX

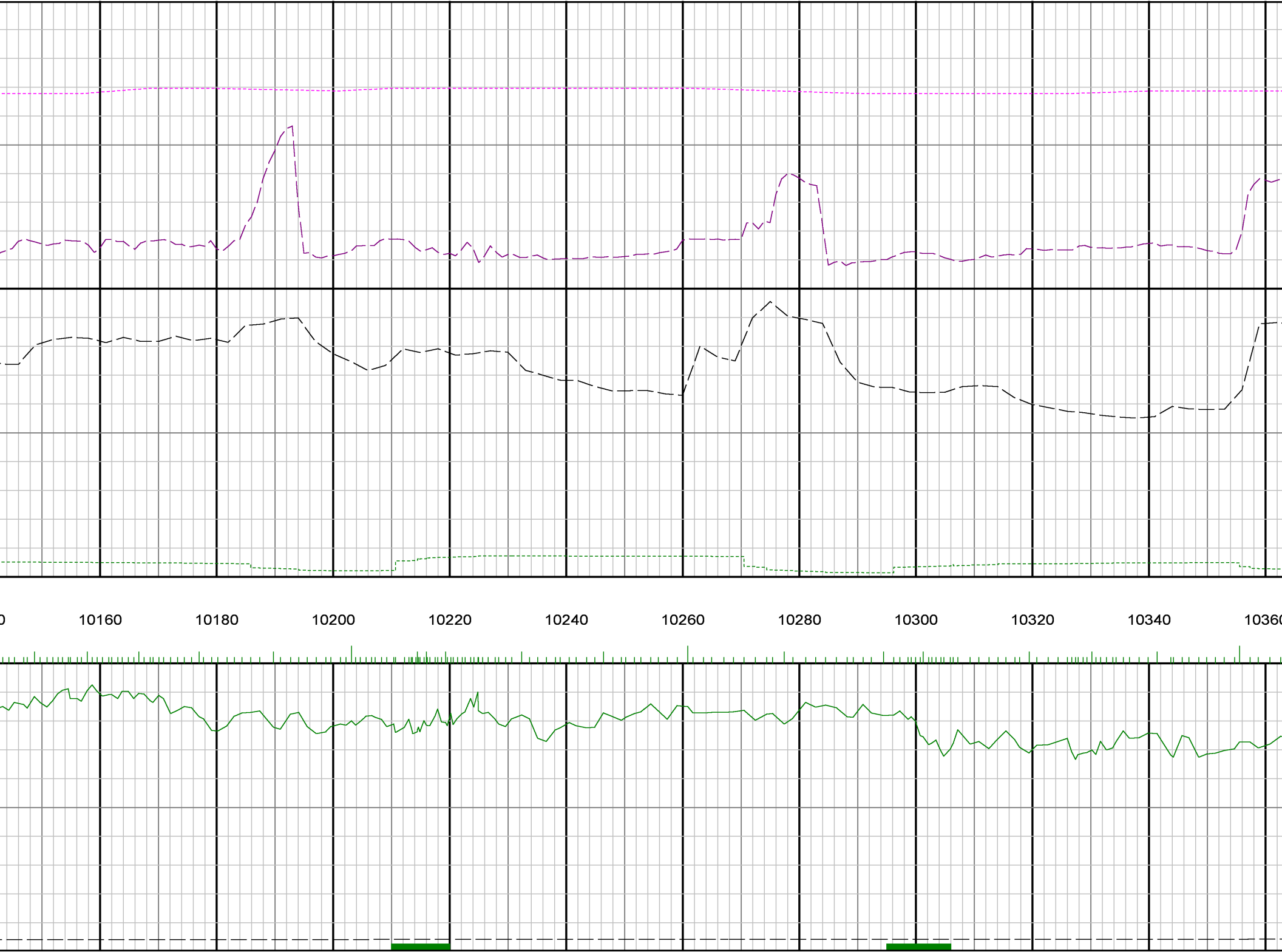

9060
9080
9100
9120
9140
9160
9180
9200
9220
9240
9260

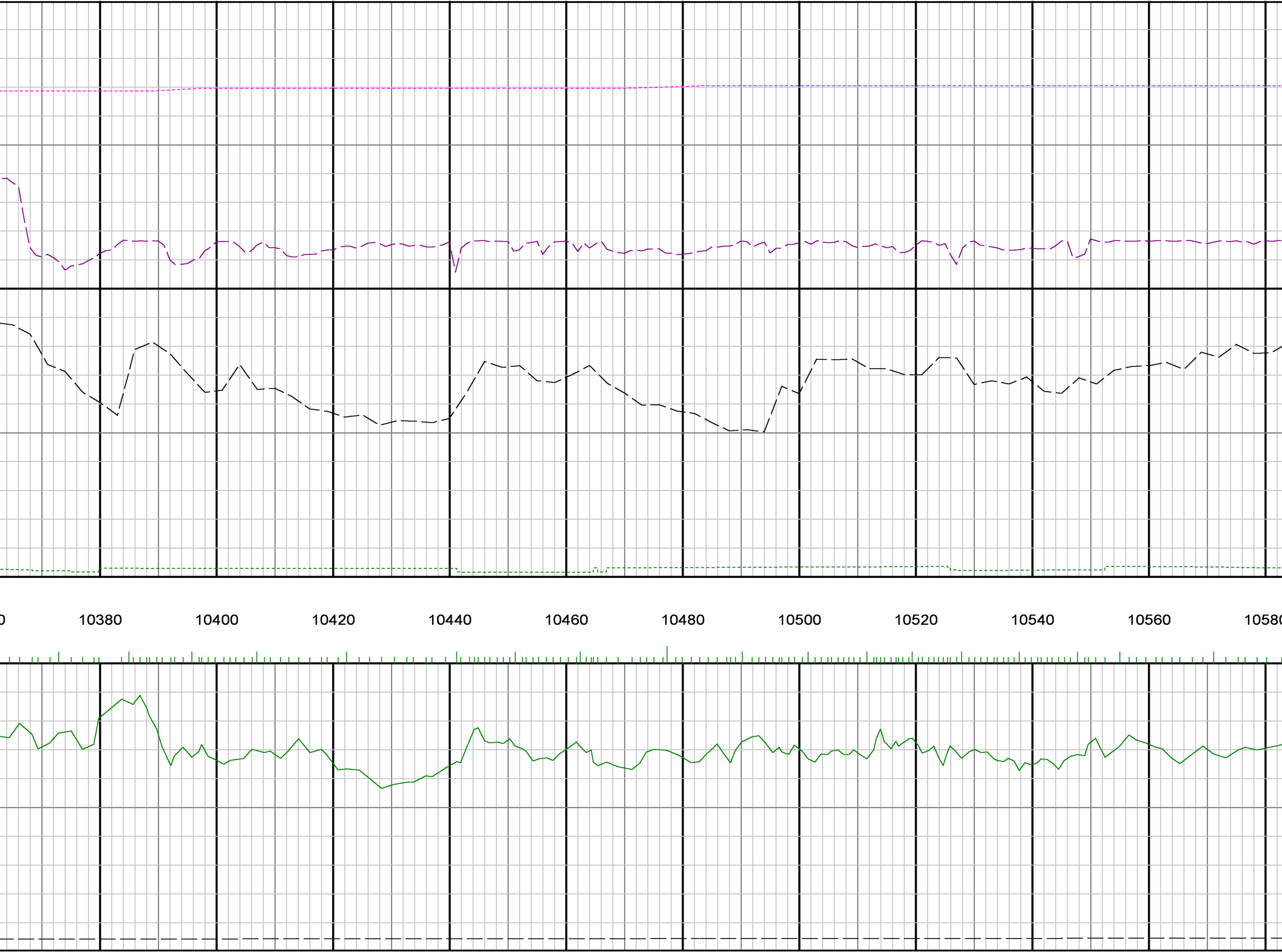

9280
9300
9320
9340
9360
9380
9400
9420
9440
9460
9480

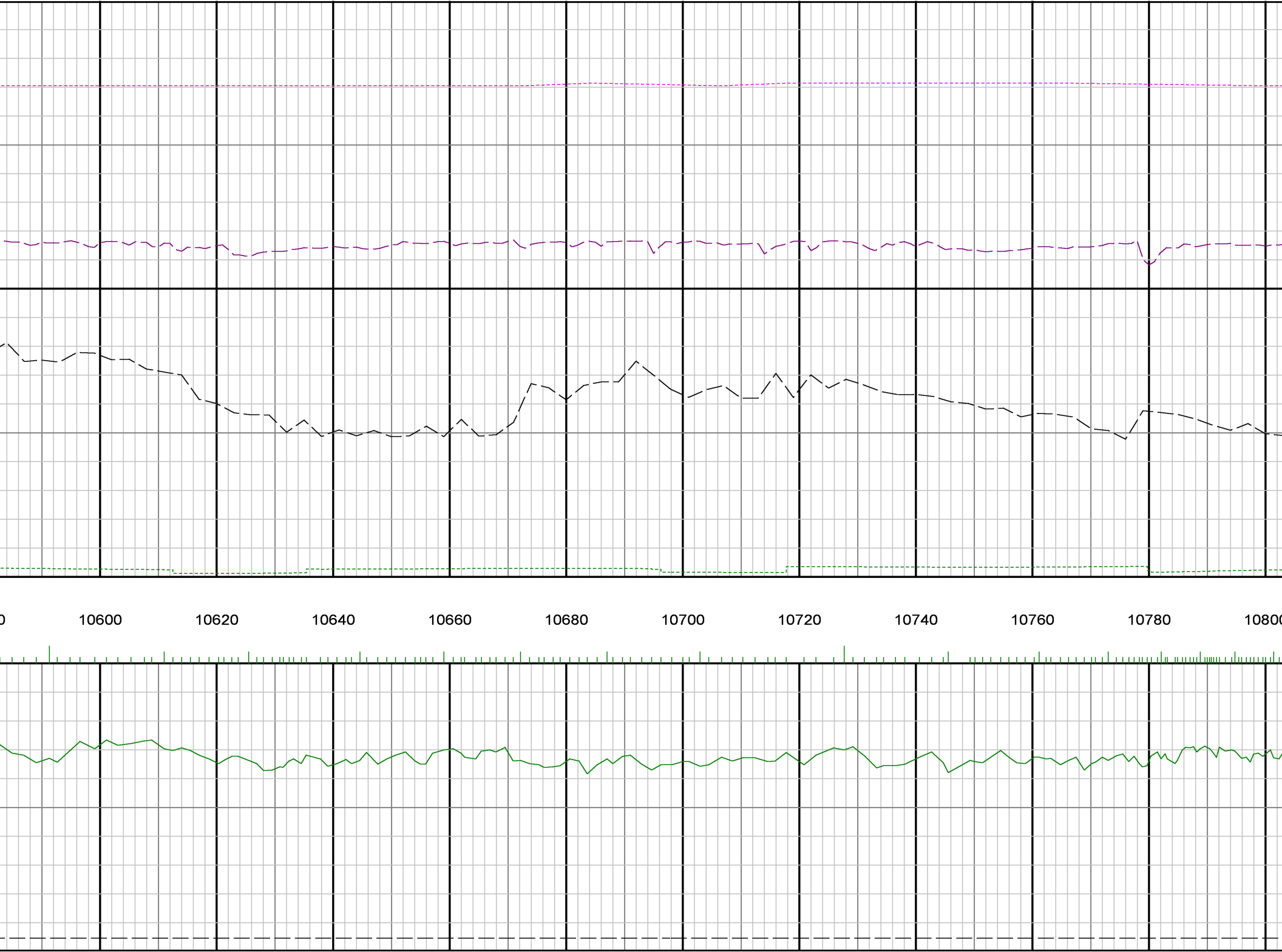

9500
9520
9540
9560
9580
9600
9620
9640
9660
9680
9700

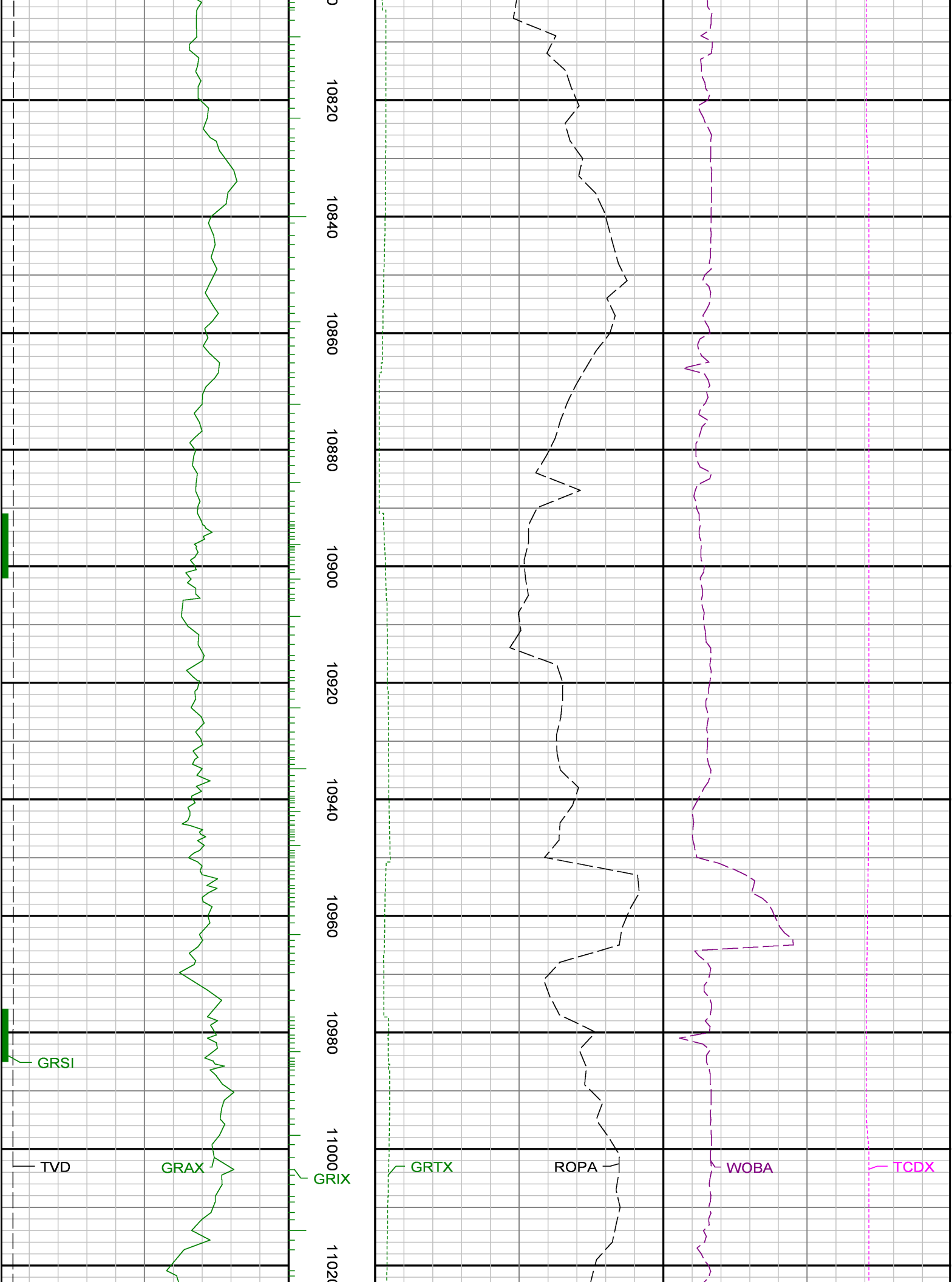

9720
9740
9760
9780
9800
9820
9840
9860
9880
9900
9920


9940
9960
9980
10000
10020
10040
10060
10080
10100
10120
10140
TVD
GRAX
GRIX
GRTX
ROPA
WOBA
TCDX
GRSI

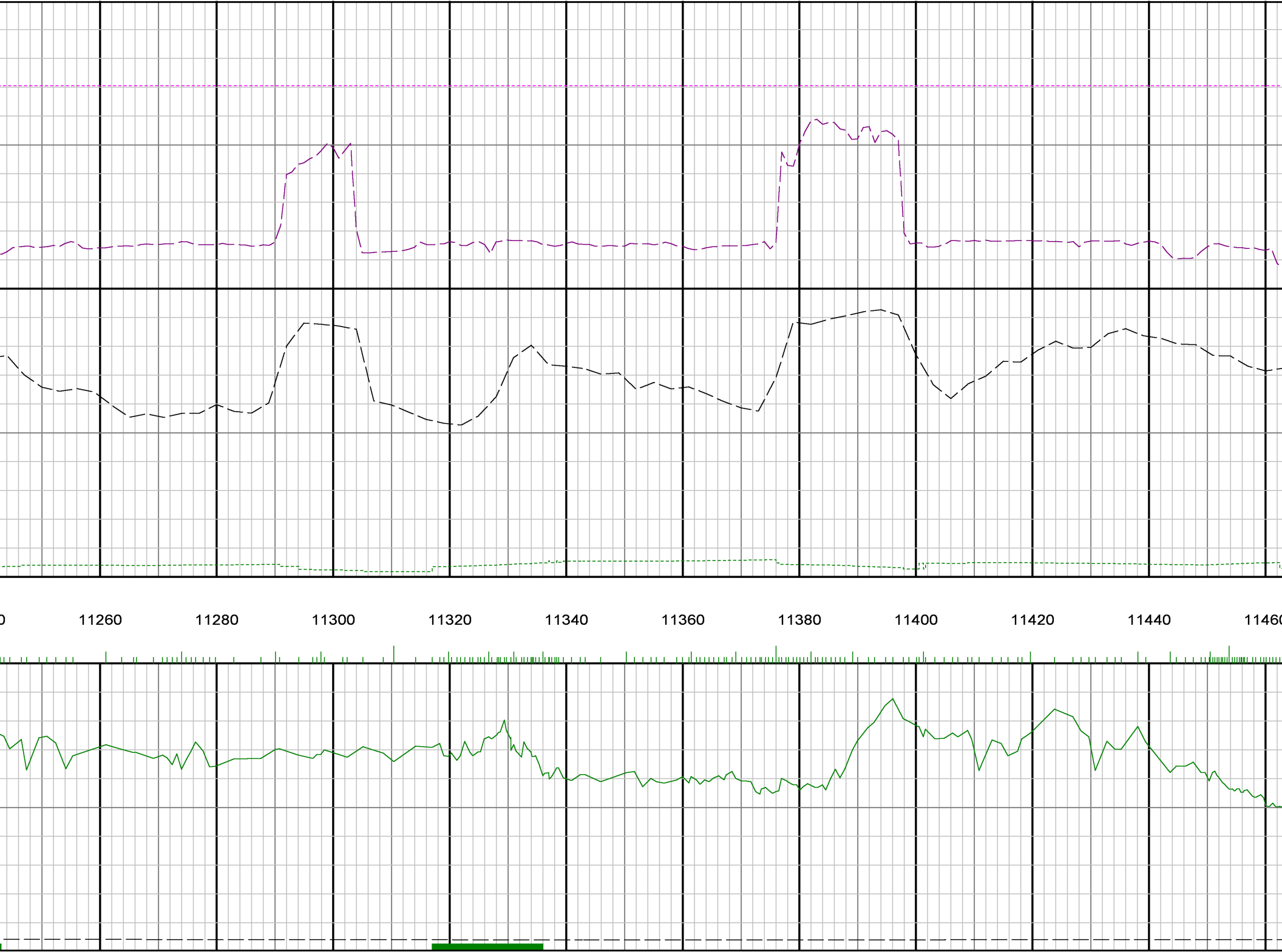

10160
10180
10200
10220
10240
10260
10280
10300
10320
10340

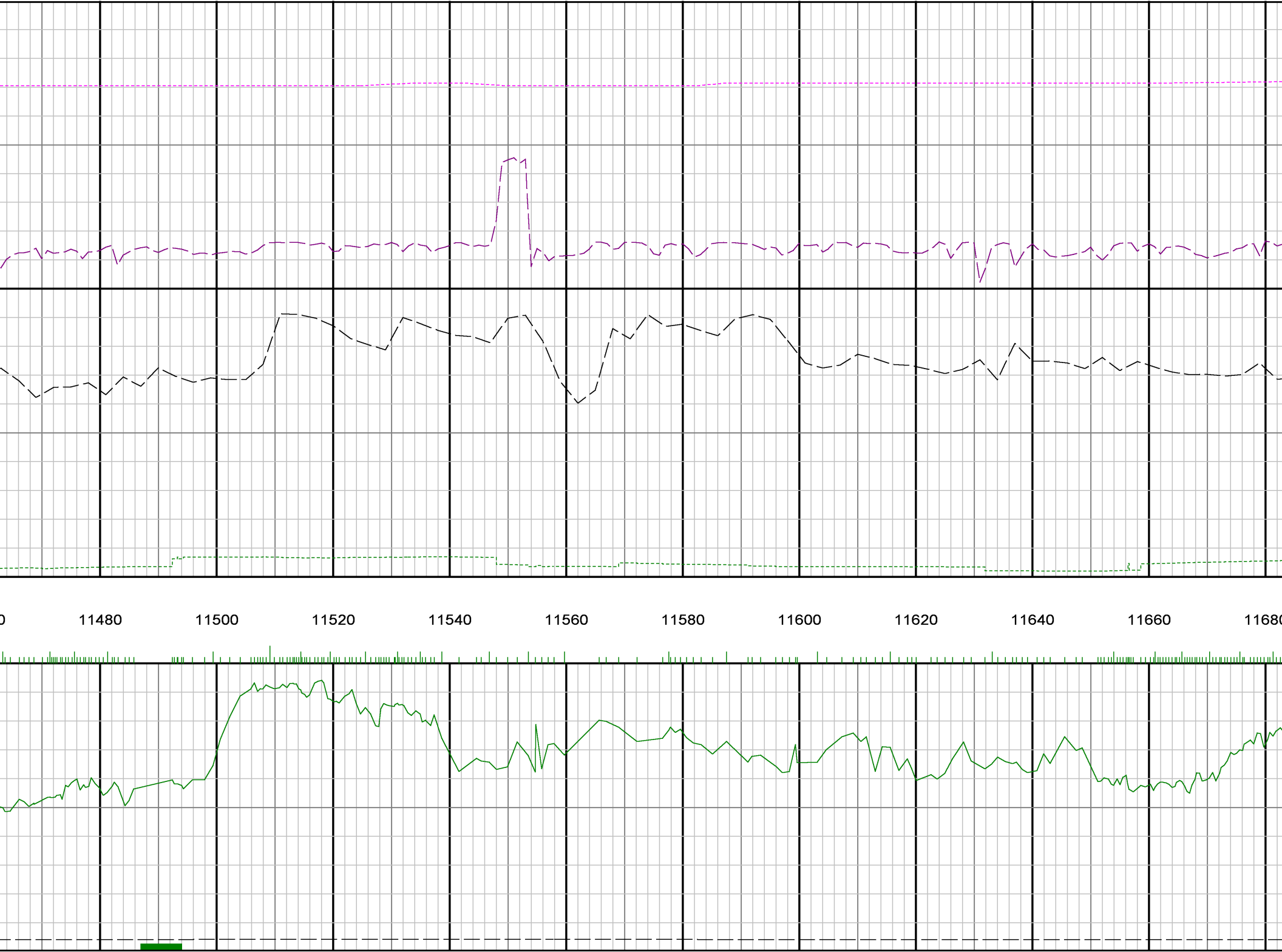

10380
10400
10420
10440
10460
10480
10500
10520
10540
10560

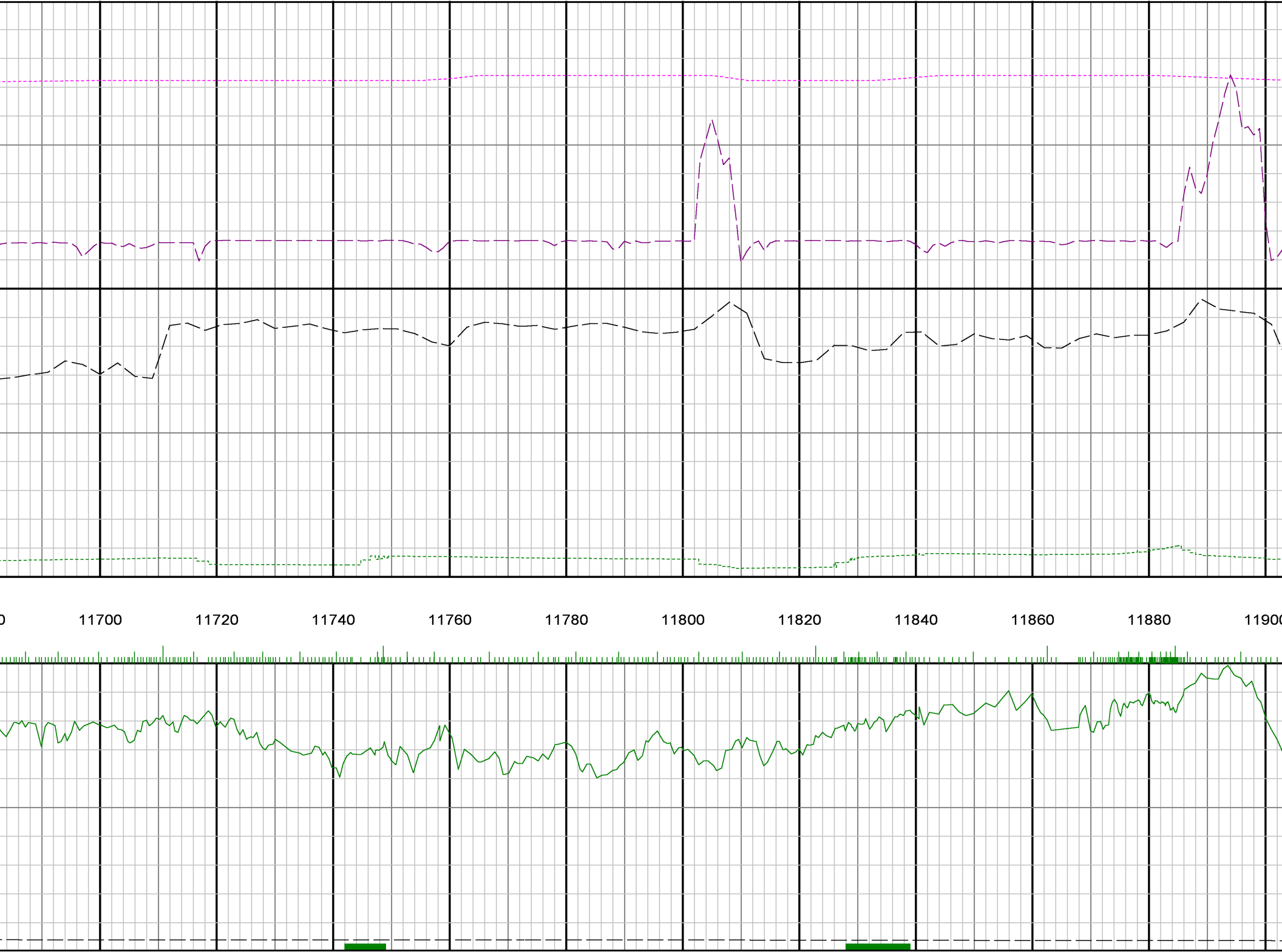

0
10600
10620
10640
10660
10680
10700
10720
10740
10760
10780
10800

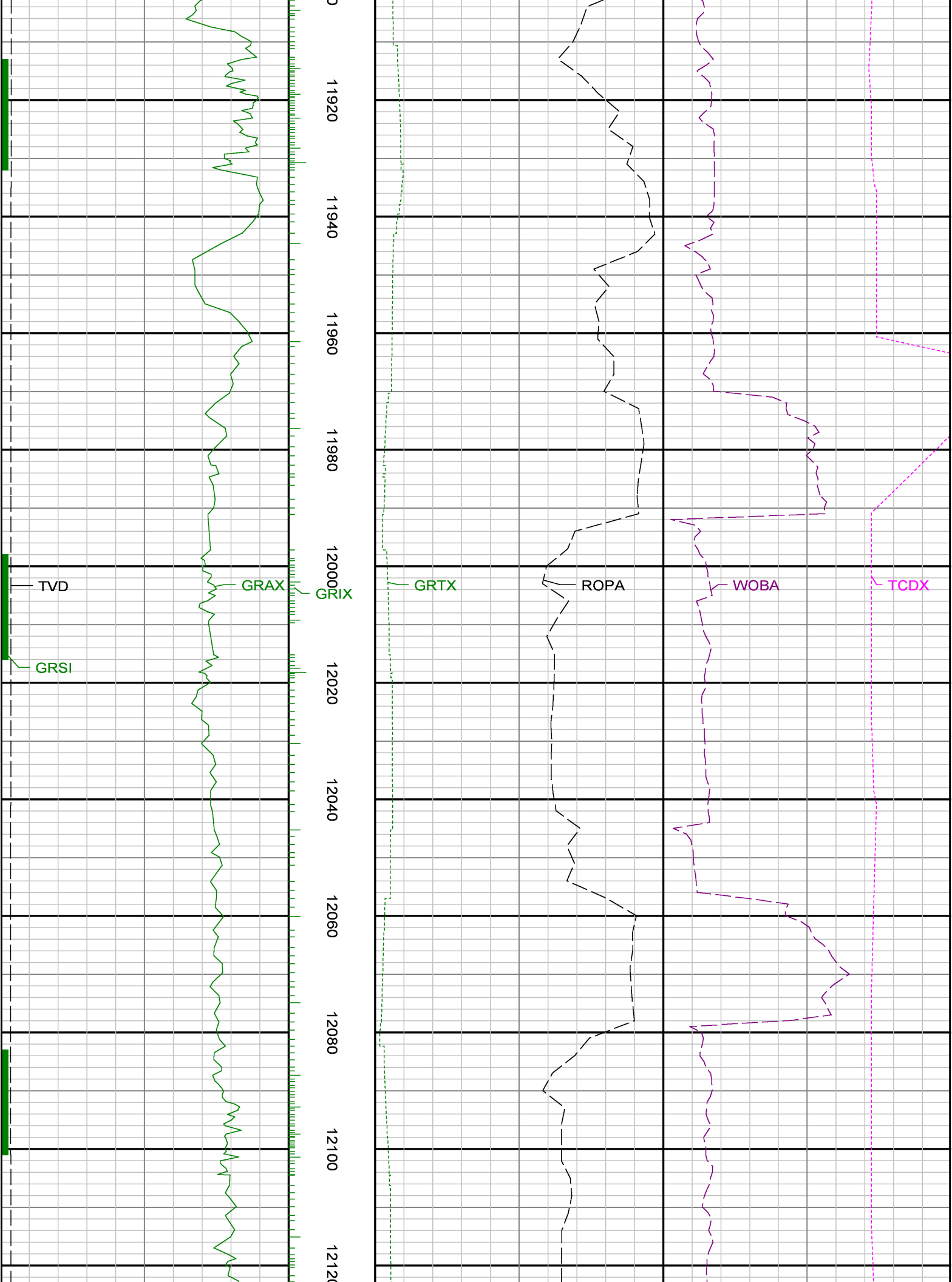

10820
10840
10860
10880
10900
10920
10940
10960
10980
11000
11020
GRSI
TVD
GRAX
GRIX
GRTX
ROPA
WOBA
TCDX

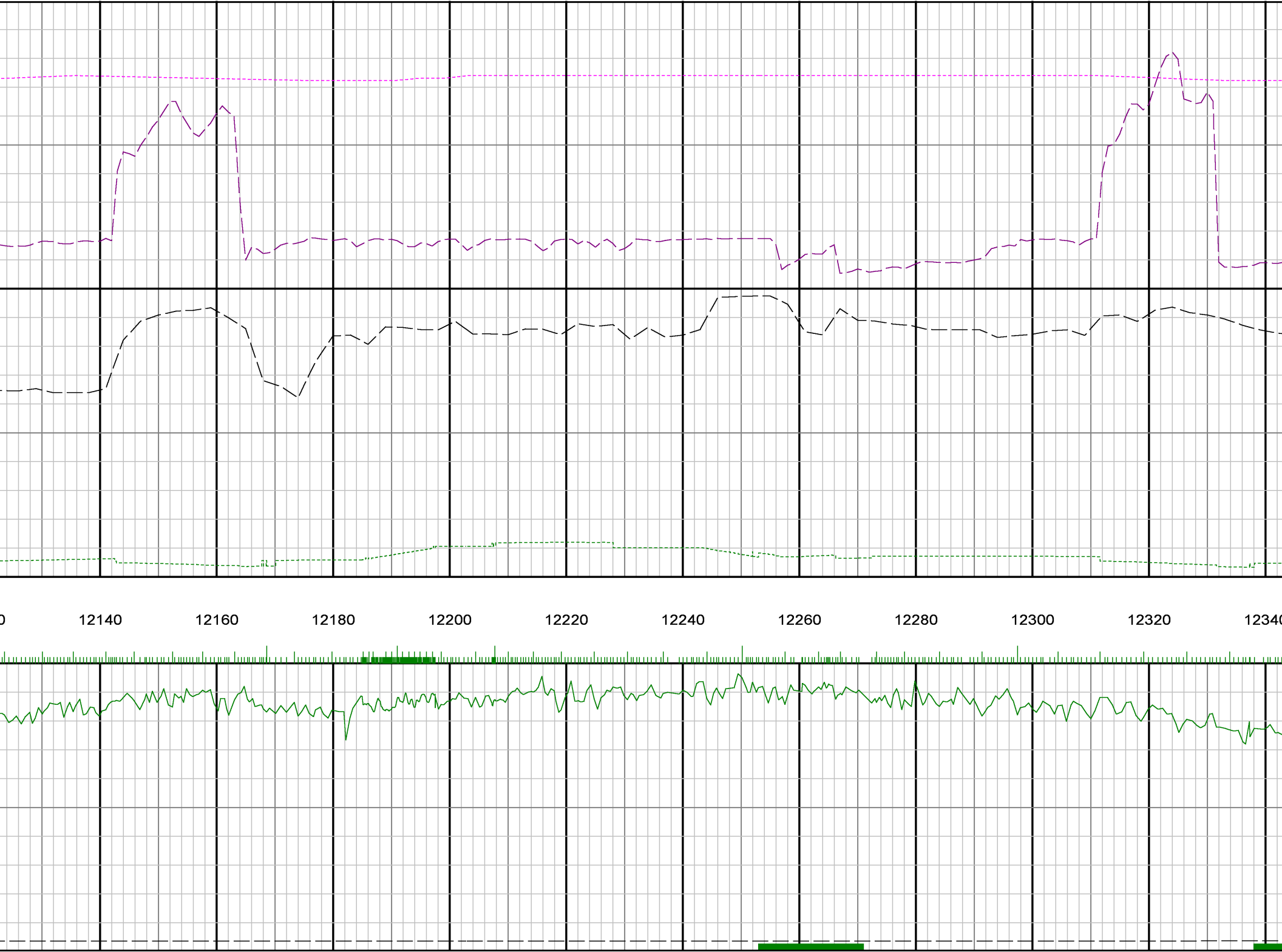

0
11040
11060
11080
11100
11120
11140
11160
11180
11200
11220
1124(

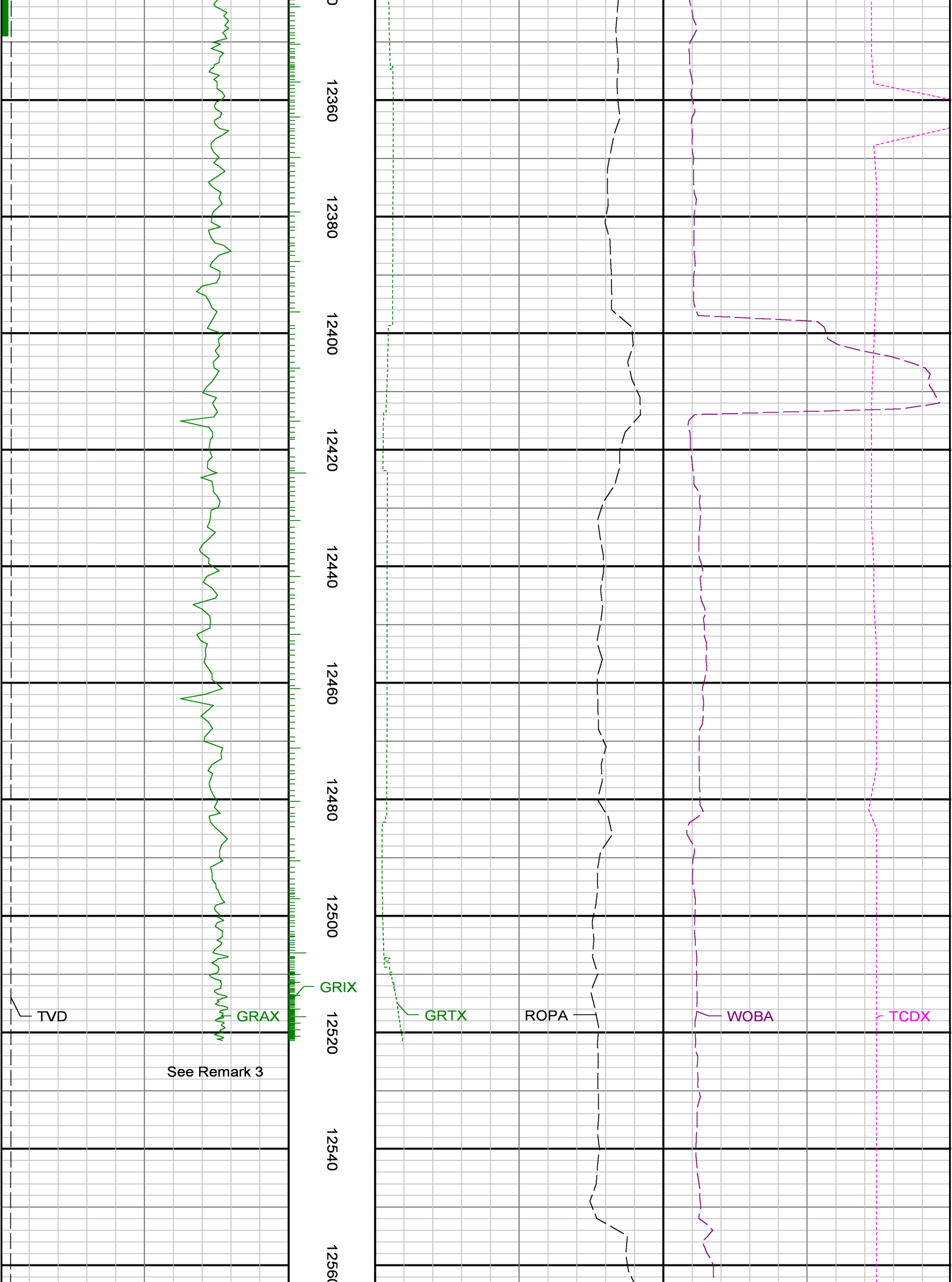

0
11260
11280
11300
11320
11340
11360
11380
11400
11420
11440
1146

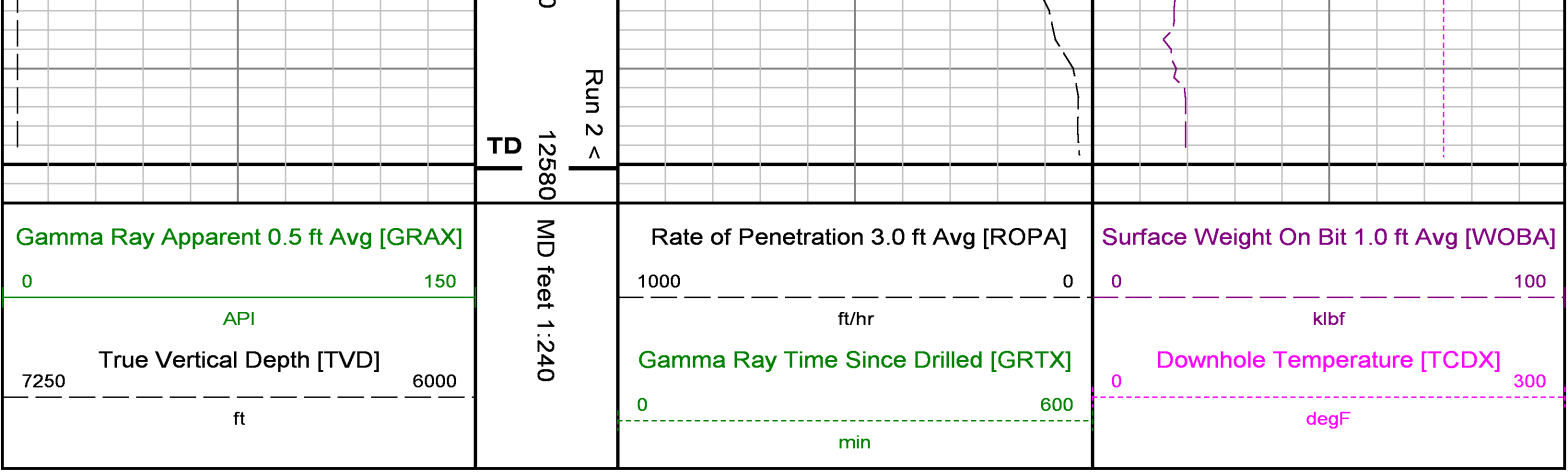

0
11480
11500
11520
11540
11560
11580
11600
11620
11640
11660
1168


0
11700
11720
11740
11760
11780
11800
11820
11840
11860
11880
11900


11920
11940
11960
11980
12000
12020
12040
12060
12080
12100
12120
TVD
GRSI
GRAX
GRIX
GRTX
ROPA
WOBA
TCDX


0
12140
12160
12180
12200
12220
12240
12260
12280
12300
12320
1234


12360
12380
12400
12420
12440
12460
12480
12500
12520
12540
12560
TVD
GRAX
GRIX
GRTX
ROPA
WOBA
TCDX
See Remark 3


Run 2 <
TD
12580
Gamma Ray Apparent 0.5 ft Avg [GRAX]
0
150
API
True Vertical Depth [TVD]
7250
6000
ft
MD feet 1:240
Rate of Penetration 3.0 ft Avg [ROPA]
1000
0
ft/hr
Gamma Ray Time Since Drilled [GRTX]
0
600
min
Surface Weight On Bit 1.0 ft Avg [WOBA]
0
100
klbf
Downhole Temperature [TCDX]
0
300
degF