XBOLT GAMMA RAY
5in/100ft Measured Depth
Final Print
Recorded Mode

Schlumberger

Company:	Verdad Resources LLC
Well:	KBL 1930 09H
Field Name:	Wattenberg
Country Name:	United States
State Name:	Colorado
County Name:	Weld
Latitude:	40°07'17.785"N
Longitude:	104°28'41.437"W
Spud Date:	31-Jul-2021
Log Interval:	1800.00--14638.03(ft)
Depth Source:	Driller's Depth
Log Measured From:	Drill Floor
Drill Floor Elevation:	4881.00(ft)
Ground Level Elevation:	4860.00(ft)
Permanent Datum:	Sea Level
API Number:	05-123-50882
Rig Name:	Precision Drilling 464
Rig Type:	Land
Job Number:	21CCO0193
Print Type:	Final Print
Northing:	1288791.78(ft)
Easting:	3285750.59(ft)
Coordinate System:	NAD83 Colorado State Plane, Northern Zone, US Feet

Disclaimer

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Operational Run Summary

Notes

Run 1 (Bit Size: 8.5 in)

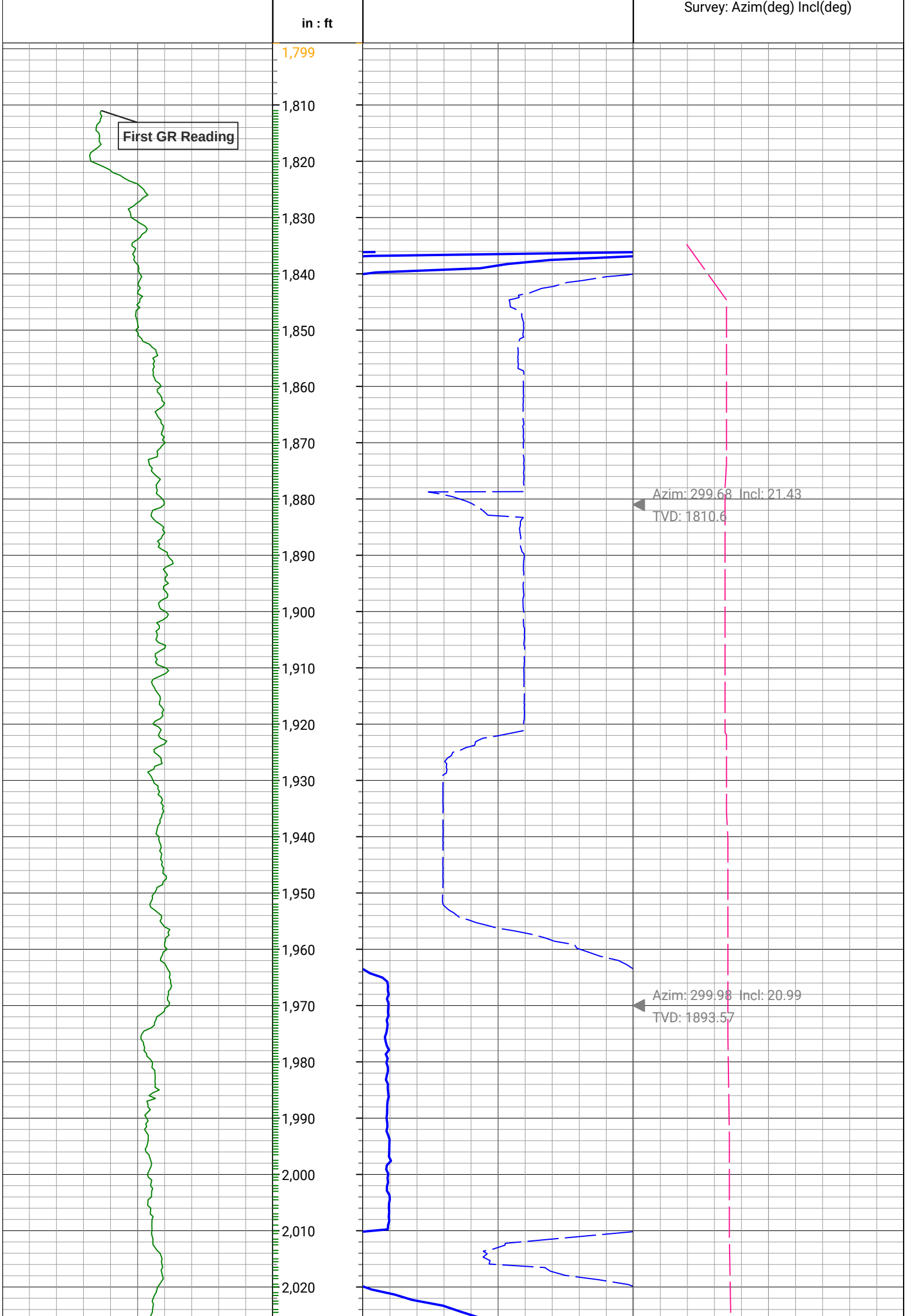
DateTime Log Started	31-Jul-2021 16:35:36	DateTime Log Finished	03-Aug-2021 15:10:42
Start Depth (ft)	1759	Stop Depth (ft)	14638
Mud Type	Oil Based Mud	Mud Density (lbm/gal)	9.3
Potassium (%)	0	Barite	Yes
GR Sensor Offset (ft)	24.73	Calibration Coefficient	0
DNI Sensor Offset (ft)	39.09		

Log

Description: XBOLT GAMMA RAY Format: XBOLT_GR_DNI_VERDAD Index Scale: 5in/100ft Index Unit: ft Index Type: Measured Depth

Creation Date: 04-Aug-2021

GR_RM,XBOLT			Depth	ROP5_RT			TEMP_RT,XBOLT		
0	gAPI, Borehole	150	1 : 20	0	ft/h, Borehole	500	0	degF, Borehole	300


in : ft
Survey: Azim(deg) Incl(deg)
First GR Reading
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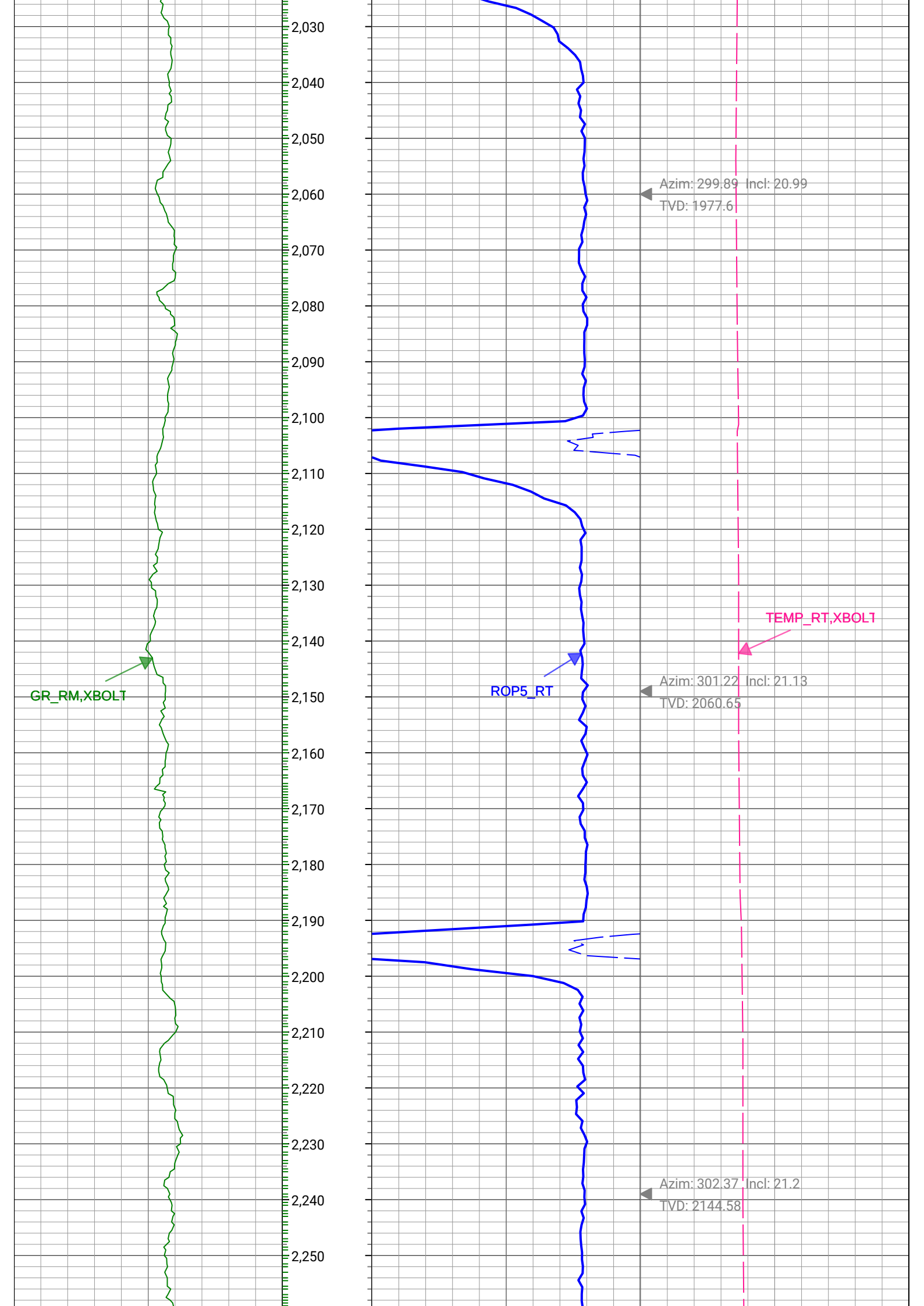
1,810
1,820
1,830
1,840
1,850
1,860
1,870
1,880
1,890
1,900
1,910
1,920
1,930
1,940
1,950
1,960
1,970
1,980
1,990
2,000
2,010
2,020
Azim: 299.68 Incl: 21.43
TVD: 1810.6
Azim: 299.98 Incl: 20.99
TVD: 1893.57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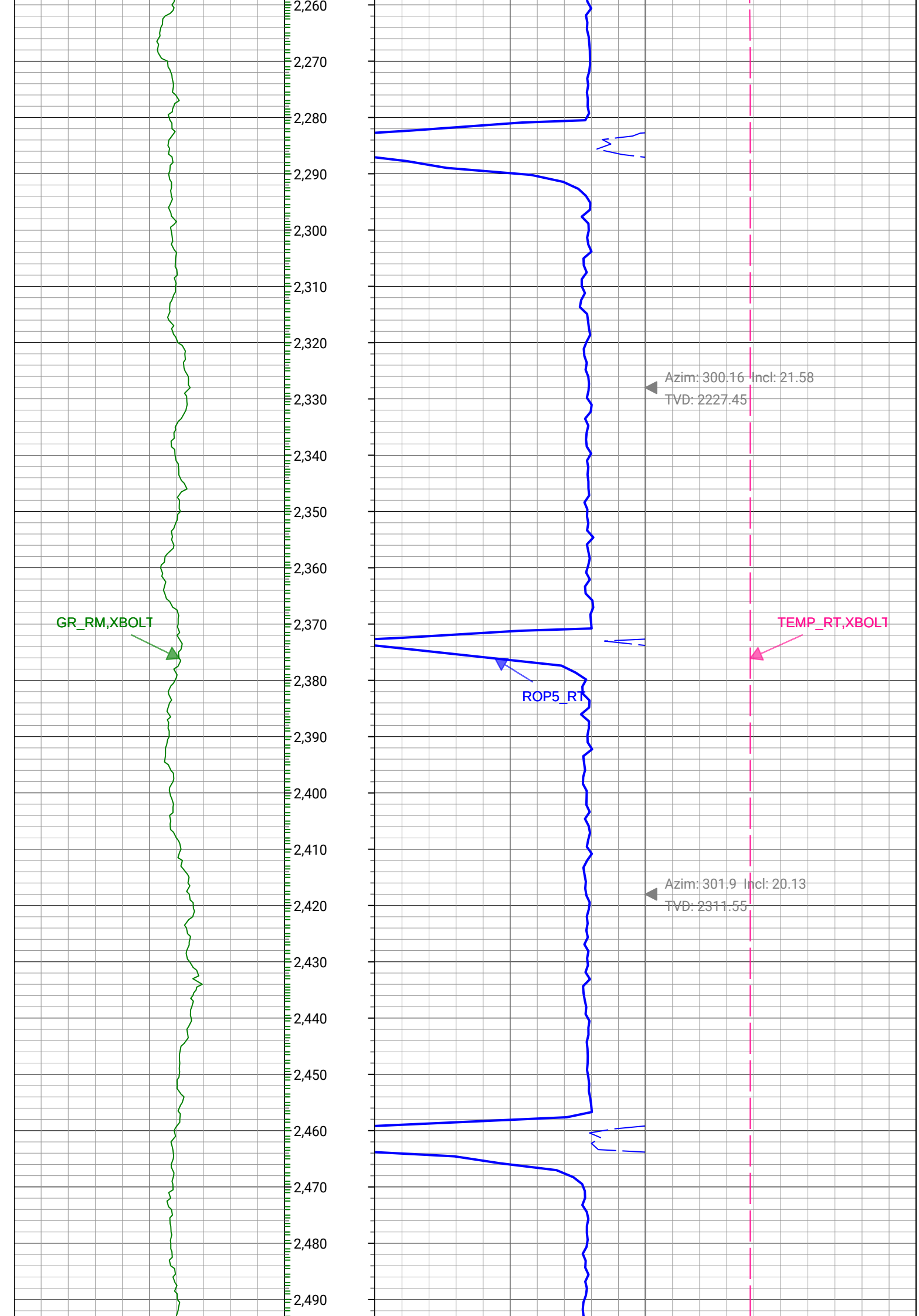
2,050
2,060
2,070
2,080
2,090
2,100
2,110
2,120
2,130
2,140
2,150
2,160
2,170
2,180
2,190
2,200
2,210
2,220
2,230
2,240
2,250
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 299.89 Incl: 20.99
TVD: 1977.6
Azim: 301.22 Incl: 21.13
TVD: 2060.65
Azim: 302.37 Incl: 21.2
TVD: 2144.58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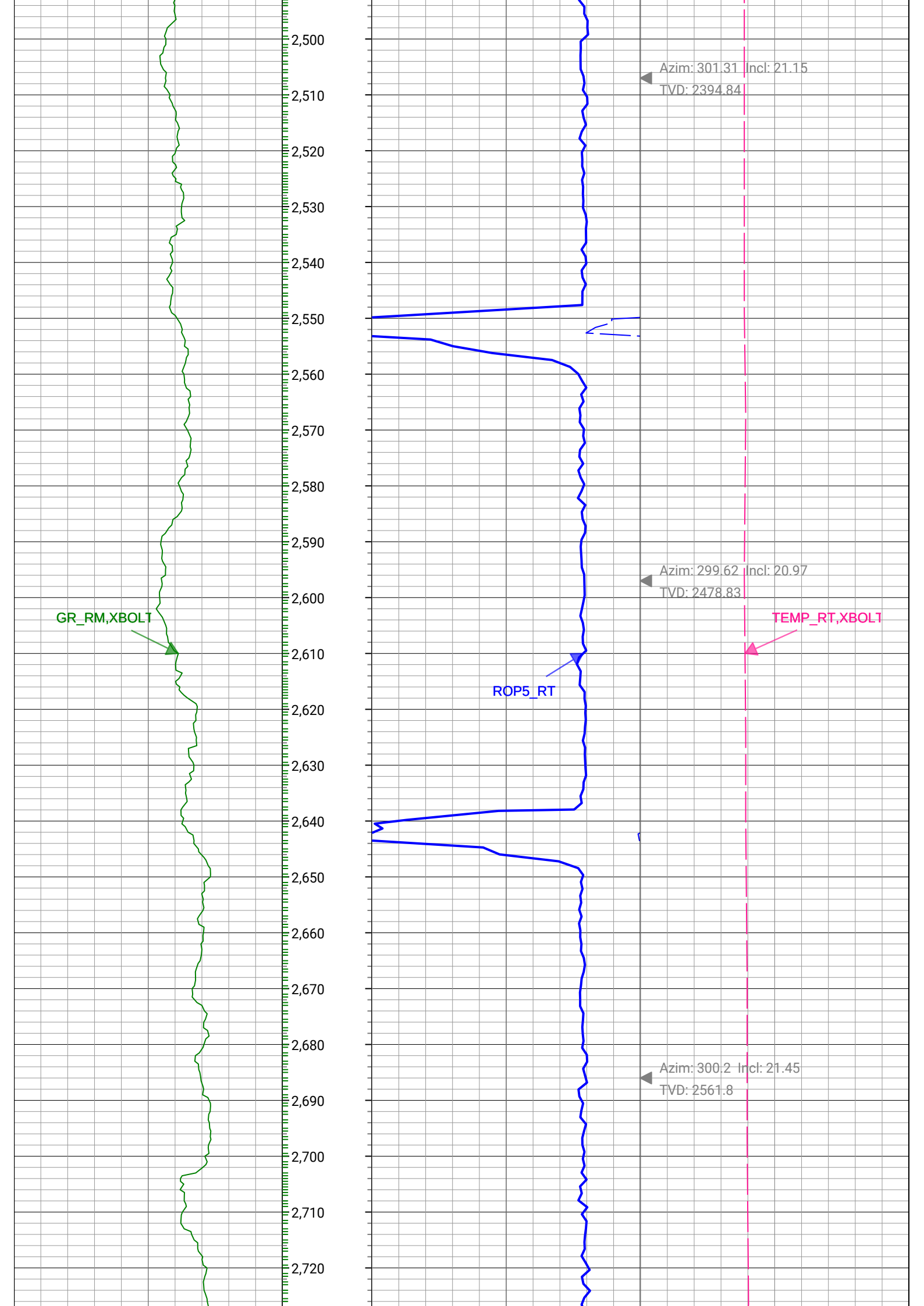
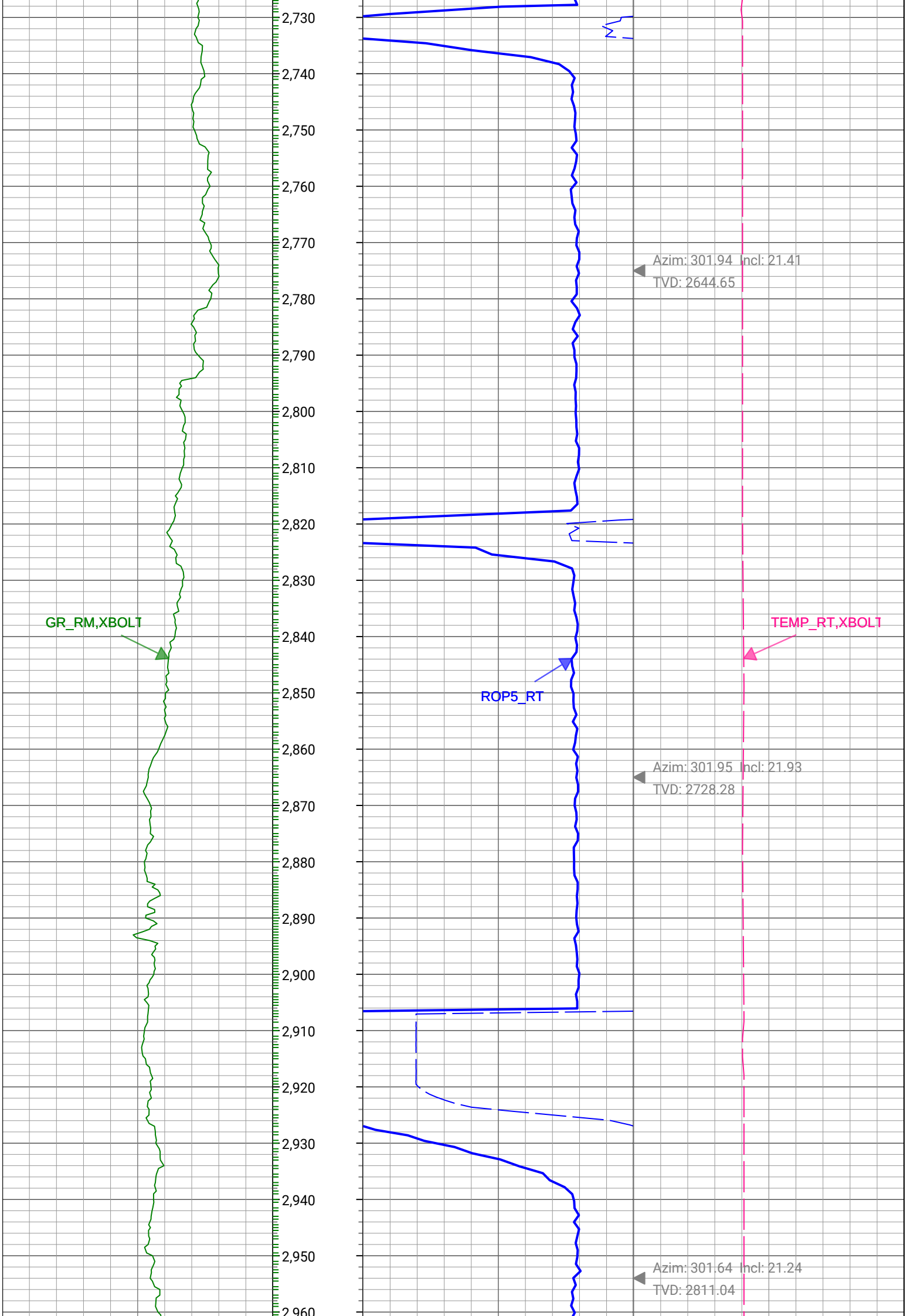
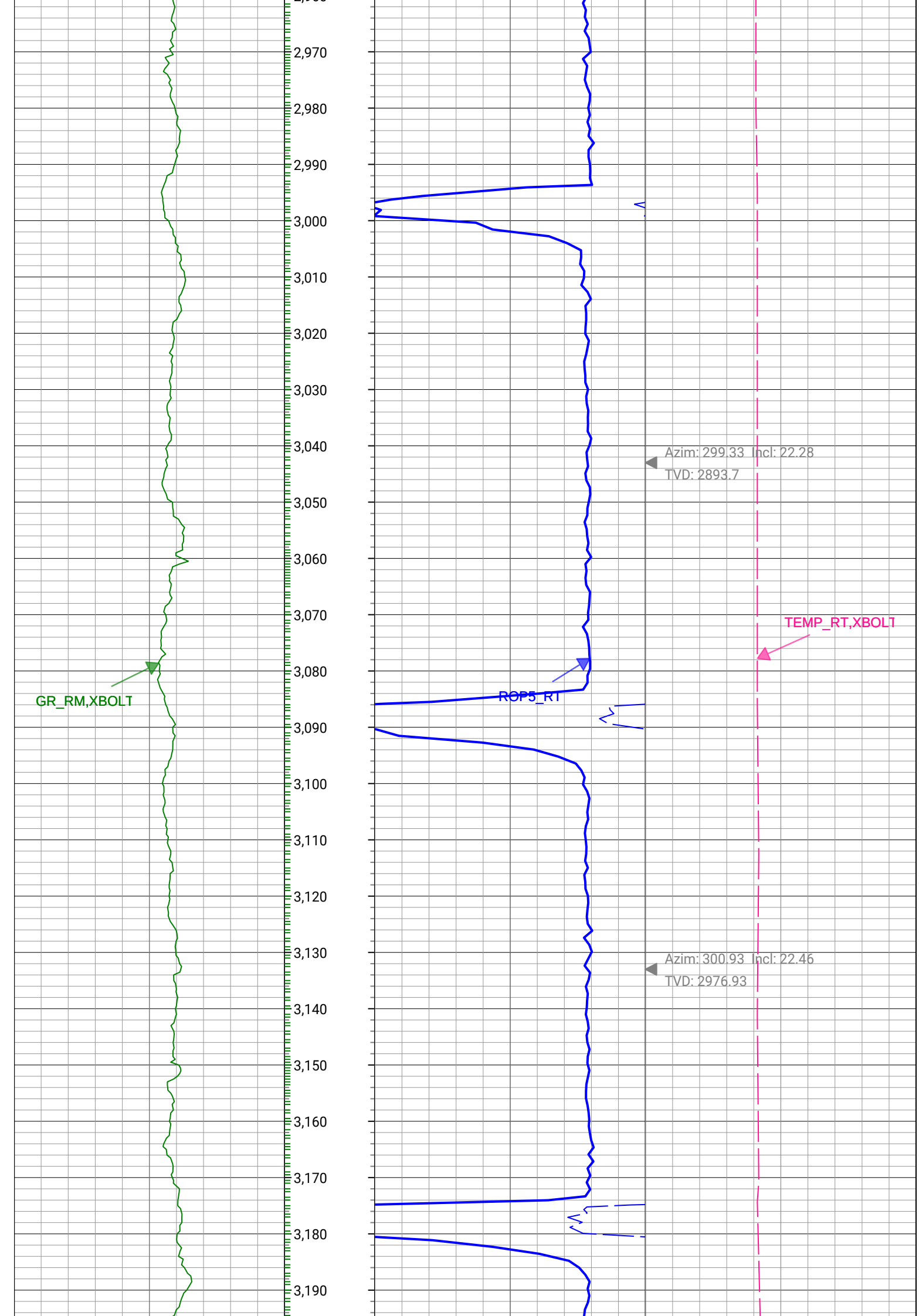
2,270
2,280
2,290
2,300
2,310
2,320
2,330
2,340
2,350
2,360
2,370
2,380
2,390
2,400
2,410
2,420
2,430
2,440
2,450
2,460
2,470
2,480
2,490
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 300.16 Incl: 21.58
TVD: 2227.45
Azim: 301.9 Incl: 20.13
TVD: 2311.55


2,500
2,510
2,520
2,530
2,540
2,550
2,560
2,570
2,580
2,590
2,600
2,610
2,620
2,630
2,640
2,650
2,660
2,670
2,680
2,690
2,700
2,710
2,720
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 301.31 Incl: 21.15
TVD: 2394.84
Azim: 299.62 Incl: 20.97
TVD: 2478.83
Azim: 300.2 Incl: 21.45
TVD: 2561.8


2,730
2,740
2,750
2,760
2,770
2,780
2,790
2,800
2,810
2,820
2,830
2,840
2,850
2,860
2,870
2,880
2,890
2,900
2,910
2,920
2,930
2,940
2,950
2,960
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 301.94 Incl: 21.41
TVD: 2644.65
Azim: 301.95 Incl: 21.93
TVD: 2728.28
Azim: 301.64 Incl: 21.24
TVD: 2811.04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2,980
2,990
3,000
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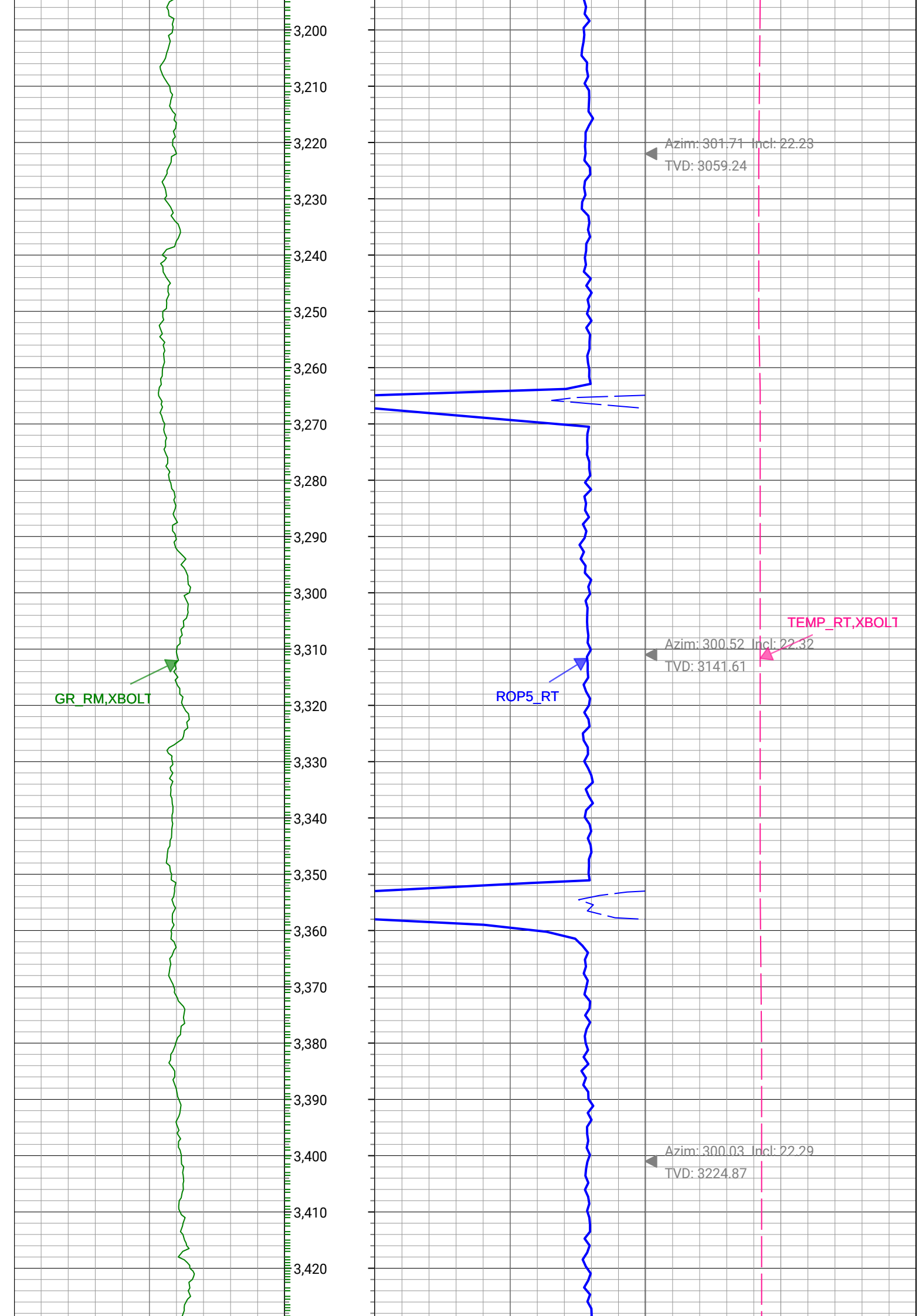
3,030
3,040
3,050
3,060
3,070
3,080
3,090
3,100
3,110
3,120
3,130
3,140
3,150
3,160
3,170
3,180
3,190
GR_RM,XBOLT
ROP5_RT
Azim: 299.33 Incl: 22.28
TVD: 2893.7
TEMP_RT,XBOLT
Azim: 300.93 Incl: 22.46
TVD: 2976.93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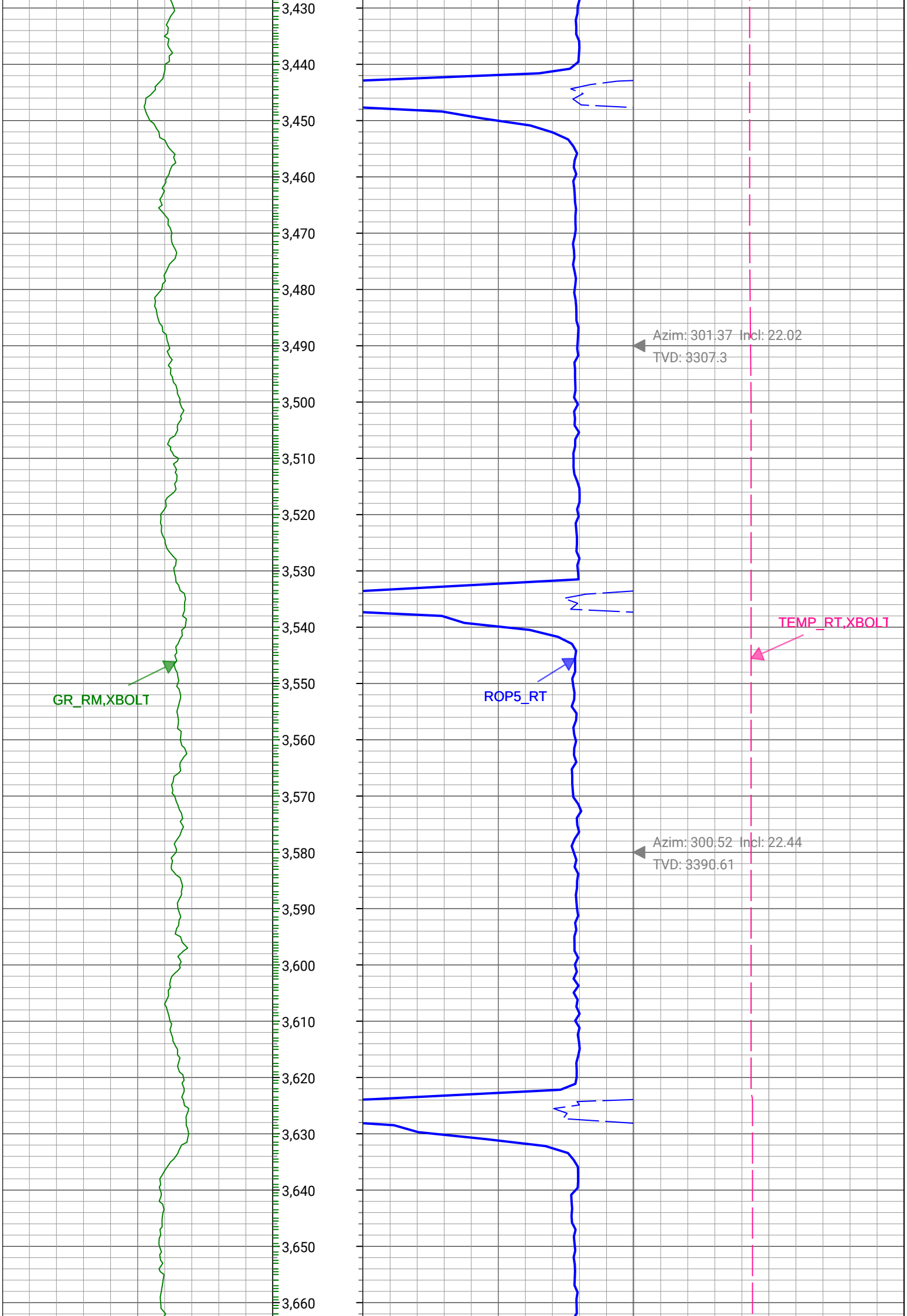
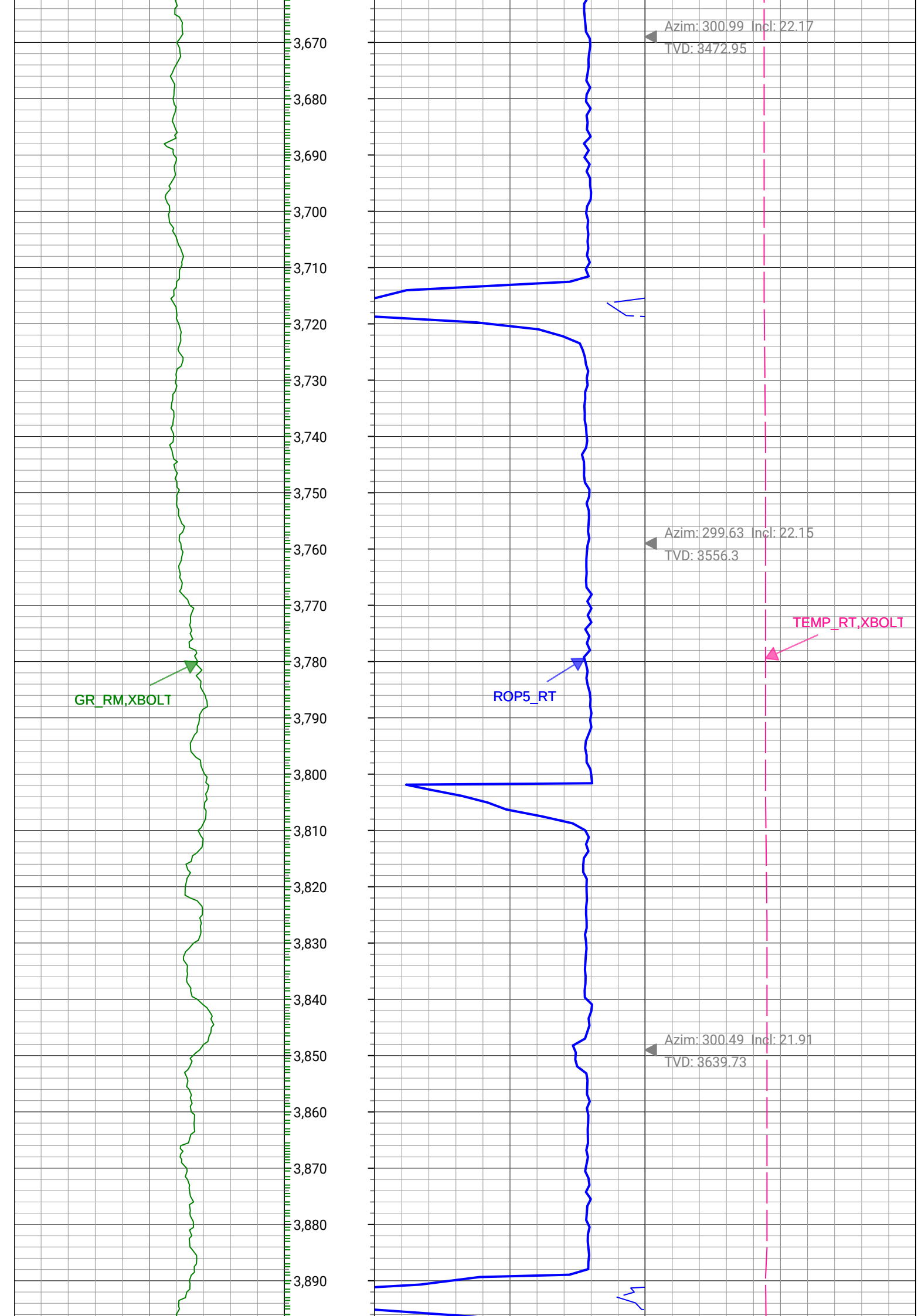
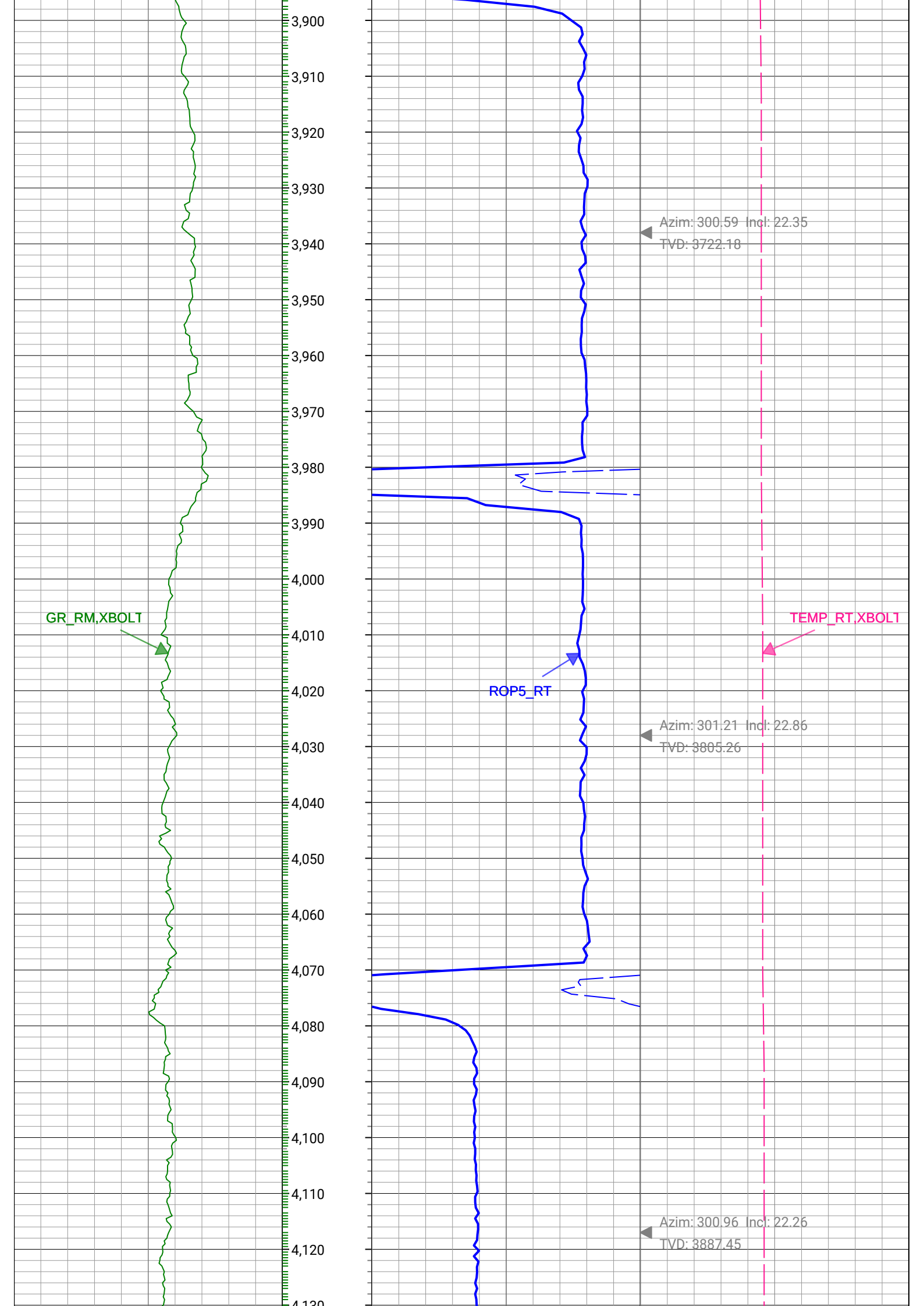
3,210
3,220
3,230
3,240
3,250
3,260
3,270
3,280
3,290
3,300
3,310
3,320
3,330
3,340
3,350
3,360
3,370
3,380
3,390
3,400
3,410
3,420
Azim: 301.71 Incl: 22.23
TVD: 3059.24
Azim: 300.52 Incl: 22.32
TVD: 3141.61
Azim: 300.03 Incl: 22.29
TVD: 3224.87
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT


3,430
3,440
3,450
3,460
3,470
3,480
3,490
3,500
3,510
3,520
3,530
3,540
3,550
3,560
3,570
3,580
3,590
3,600
3,610
3,620
3,630
3,640
3,650
3,660
Azim: 301.37 Incl: 22.02
TVD: 3307.3
Azim: 300.52 Incl: 22.44
TVD: 3390.61
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT


3,670
3,680
3,690
3,700
3,710
3,720
3,730
3,740
3,750
3,760
3,770
3,780
3,790
3,800
3,810
3,820
3,830
3,840
3,850
3,860
3,870
3,880
3,890
Azim: 300.99 Incl: 22.17
TVD: 3472.95
Azim: 299.63 Incl: 22.15
TVD: 3556.3
Azim: 300.49 Incl: 21.91
TVD: 3639.73
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT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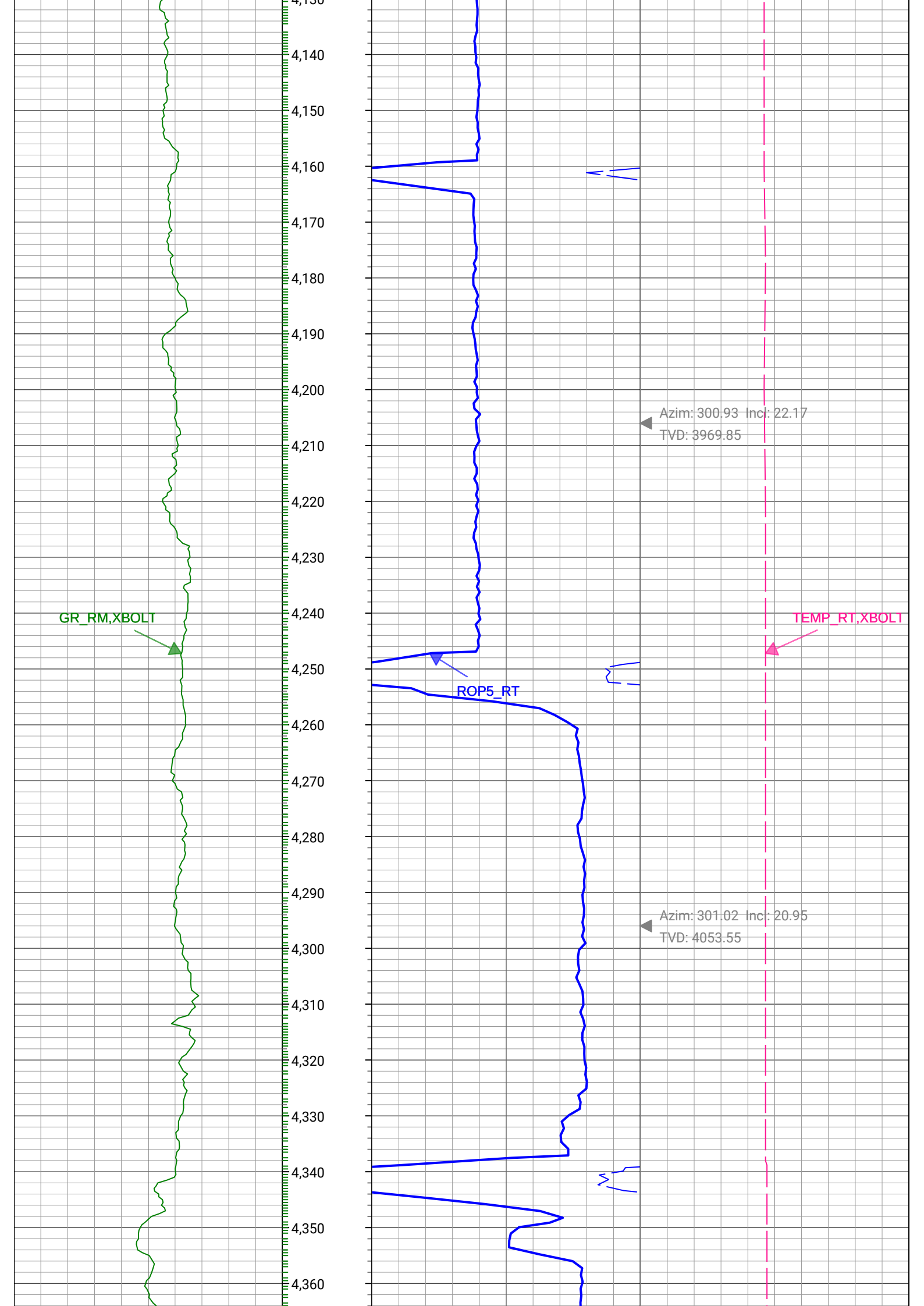
3,910
3,920
3,930
3,940
3,950
3,960
3,970
3,980
3,990
4,000
4,010
4,020
4,030
4,040
4,050
4,060
4,070
4,080
4,090
4,100
4,110
4,120
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 300.59 Incl: 22.35
TVD: 3722.18
Azim: 301.21 Incl: 22.86
TVD: 3805.26
Azim: 300.96 Incl: 22.26
TVD: 3887.45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4,160
4,170
4,180
4,190
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4,210
4,220
4,230
4,240
4,250
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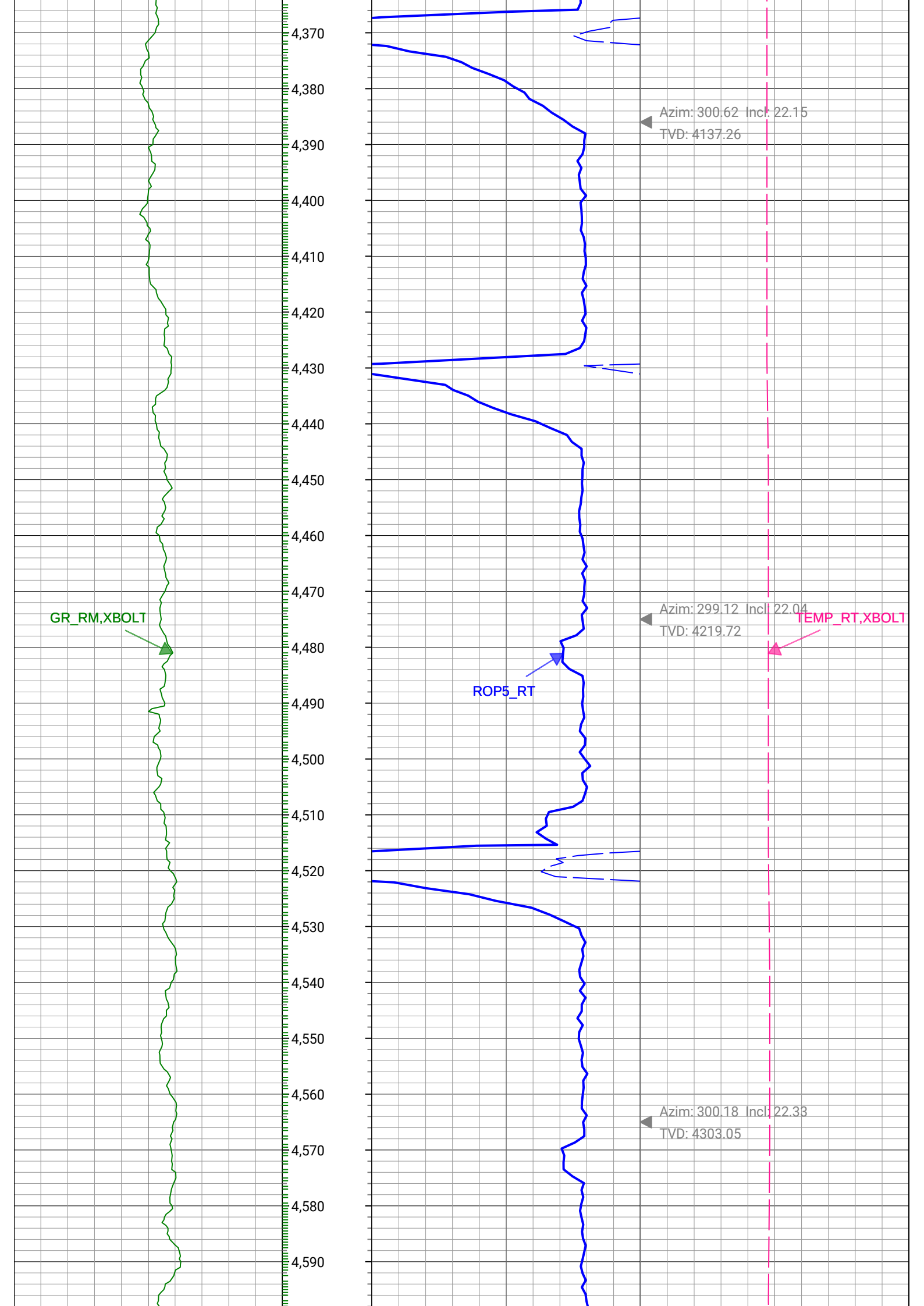
4,270
4,280
4,290
4,300
4,310
4,320
4,330
4,340
4,350
4,360
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 300.93 Incl: 22.17
TVD: 3969.85
Azim: 301.02 Incl: 20.95
TVD: 4053.55


4,370
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4,390
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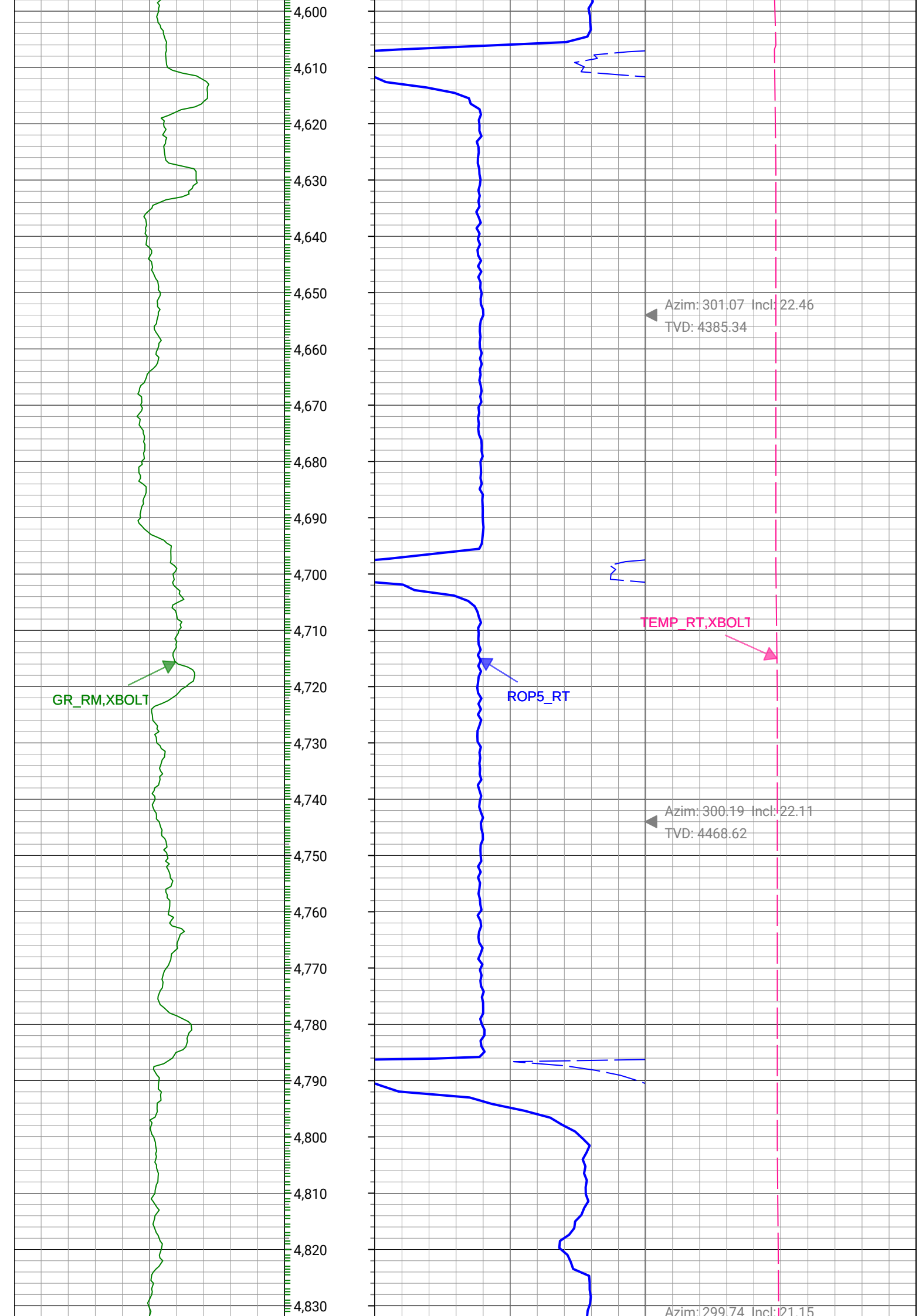
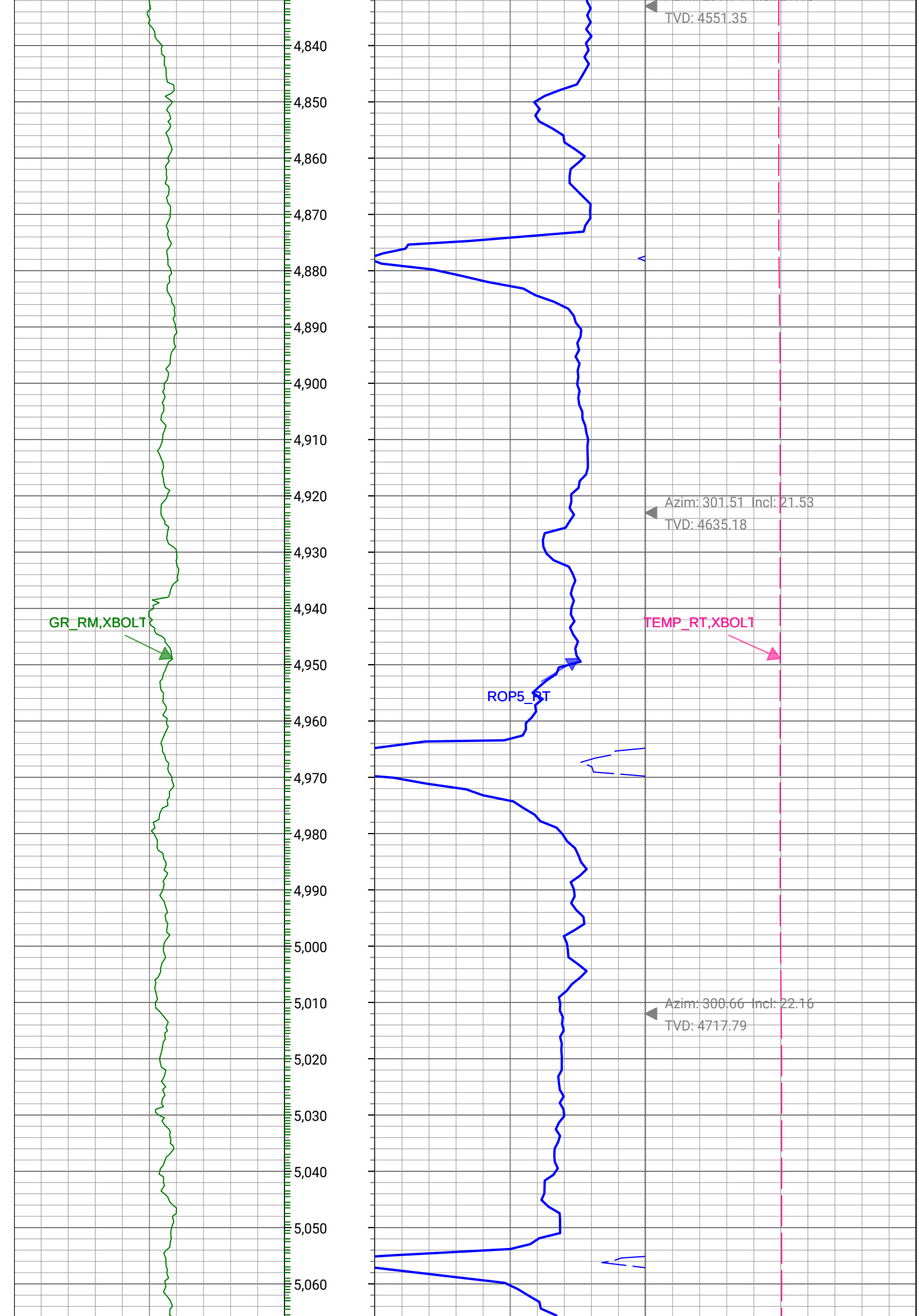
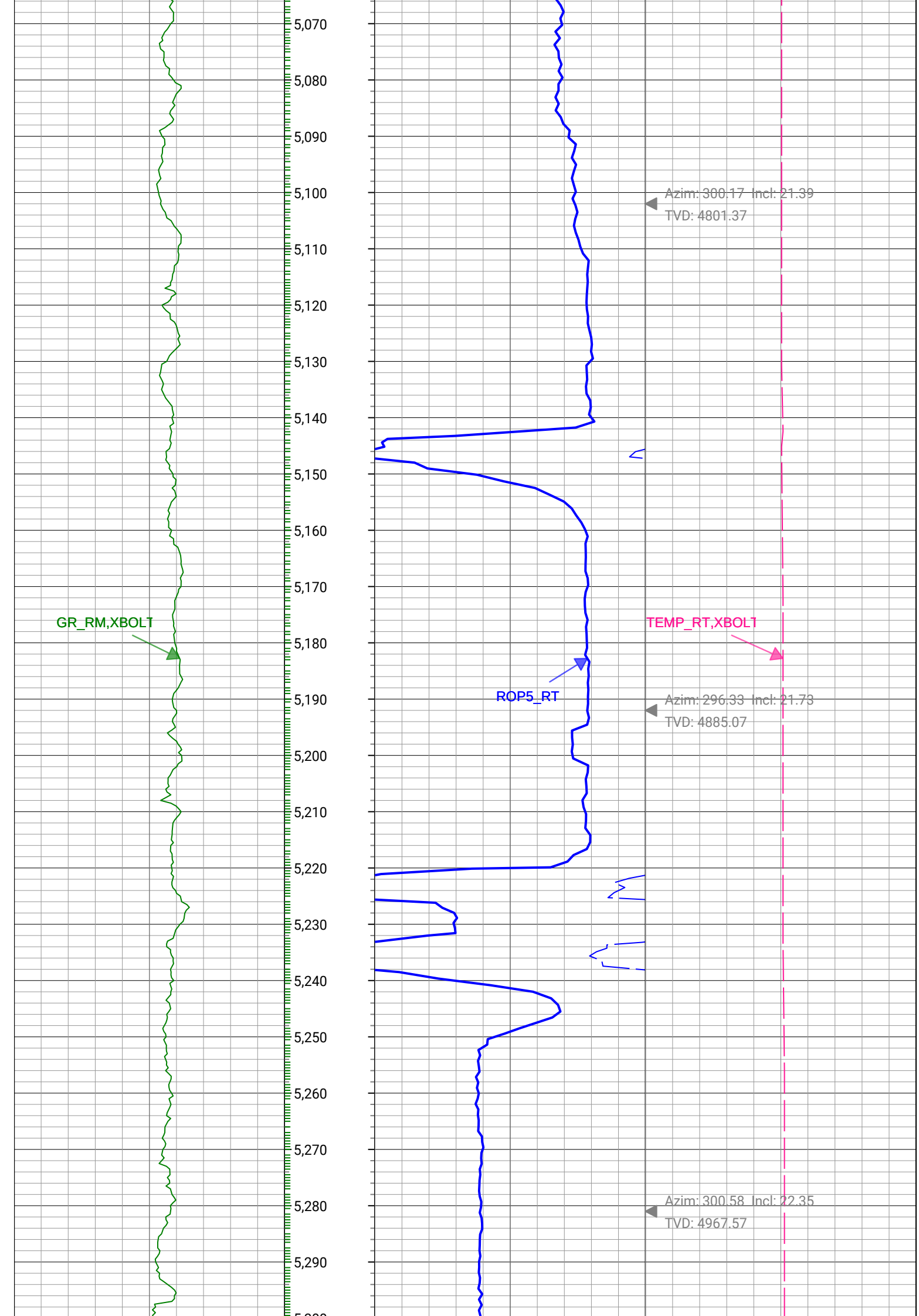
4,410
4,420
4,430
4,440
4,450
4,460
4,470
4,480
4,490
4,500
4,510
4,520
4,530
4,540
4,550
4,560
4,570
4,580
4,590
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 300.62 Incl: 22.15
TVD: 4137.26
Azim: 299.12 Incl: 22.04
TVD: 4219.72
Azim: 300.18 Incl: 22.33
TVD: 4303.05


4,600
4,610
4,620
4,630
4,640
4,650
4,660
4,670
4,680
4,690
4,700
4,710
4,720
4,730
4,740
4,750
4,760
4,770
4,780
4,790
4,800
4,810
4,820
4,830
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 301.07 Incl: 22.46
TVD: 4385.34
Azim: 300.19 Incl: 22.11
TVD: 4468.62
Azim: 299.74 Incl: 21.15


TVD: 4551.35
Azim: 301.51 Incl: 21.53
TVD: 4635.18
Azim: 300.66 Incl: 22.16
TVD: 4717.79
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT
4,840
4,850
4,860
4,870
4,880
4,890
4,900
4,910
4,920
4,930
4,940
4,950
4,960
4,970
4,980
4,990
5,000
5,010
5,020
5,030
5,040
5,050
5,060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5,170
5,180
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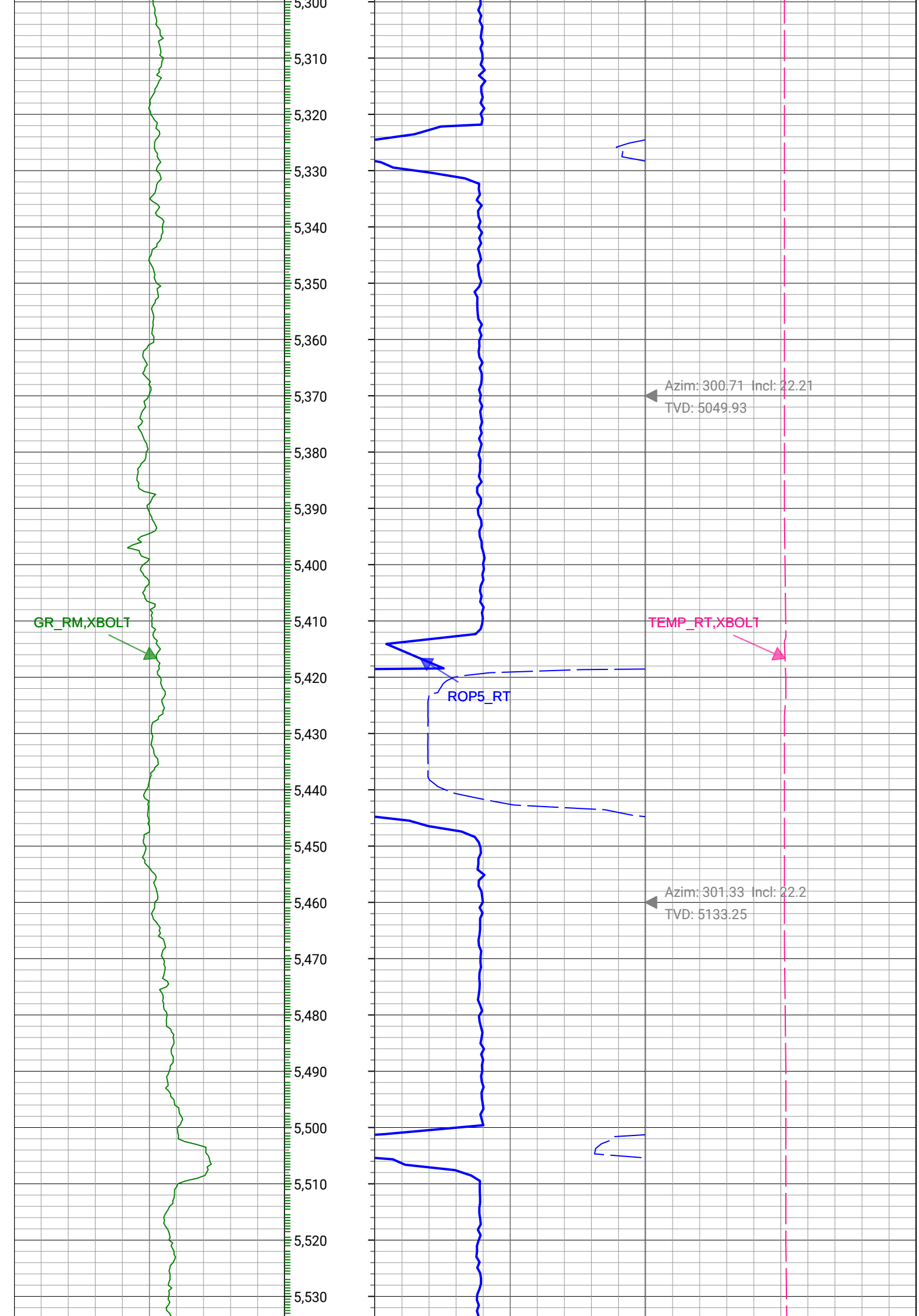
5,200
5,210
5,220
5,230
5,240
5,250
5,260
5,270
5,280
5,290
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 300.17 Incl: 21.39
TVD: 4801.37
Azim: 296.33 Incl: 21.73
TVD: 4885.07
Azim: 300.58 Incl: 22.35
TVD: 4967.57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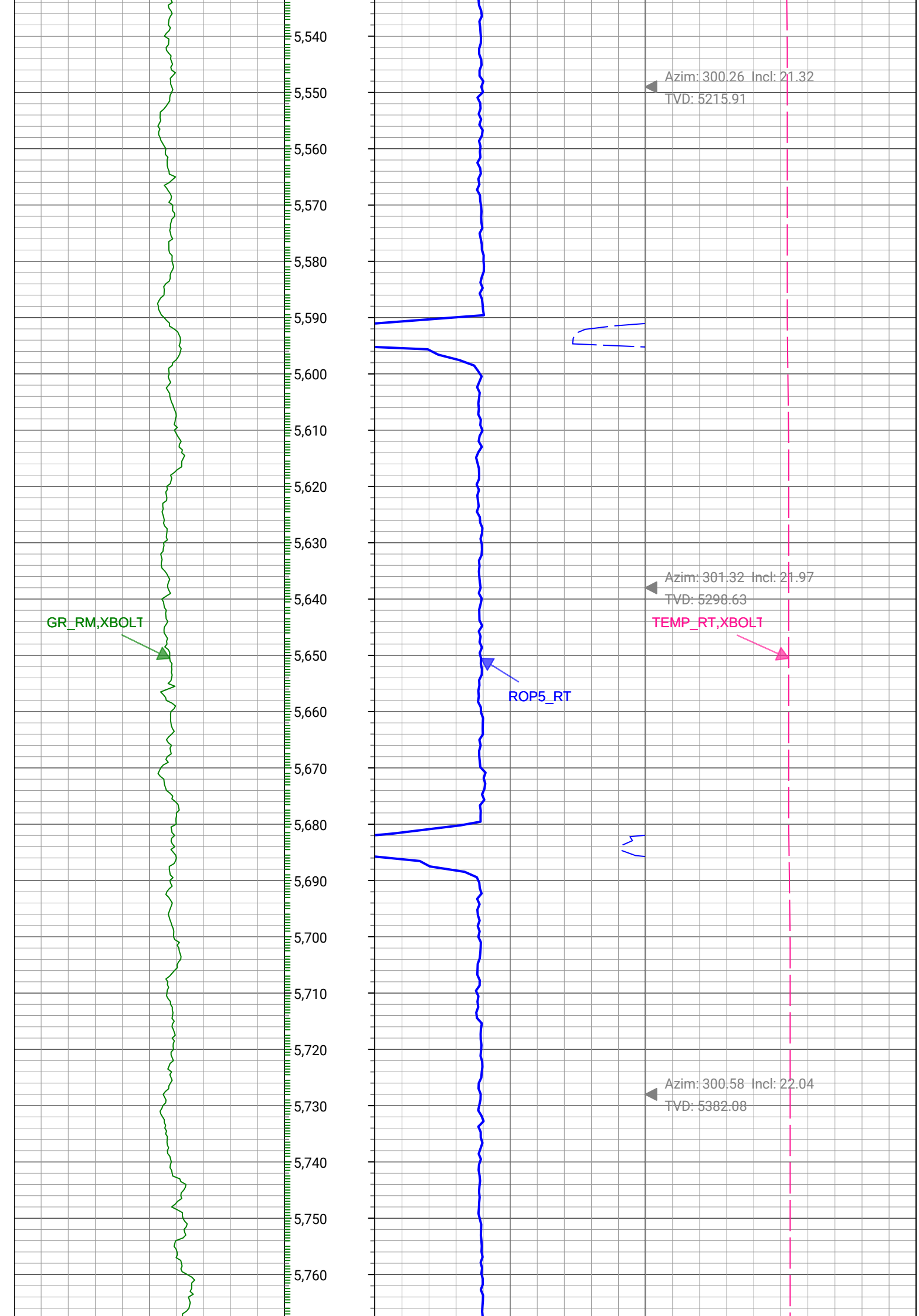
5,430
5,440
5,450
5,460
5,470
5,480
5,490
5,500
5,510
5,520
5,530
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT
Azim: 300.71 Incl: 22.21
TVD: 5049.93
Azim: 301.33 Incl: 22.2
TVD: 5133.25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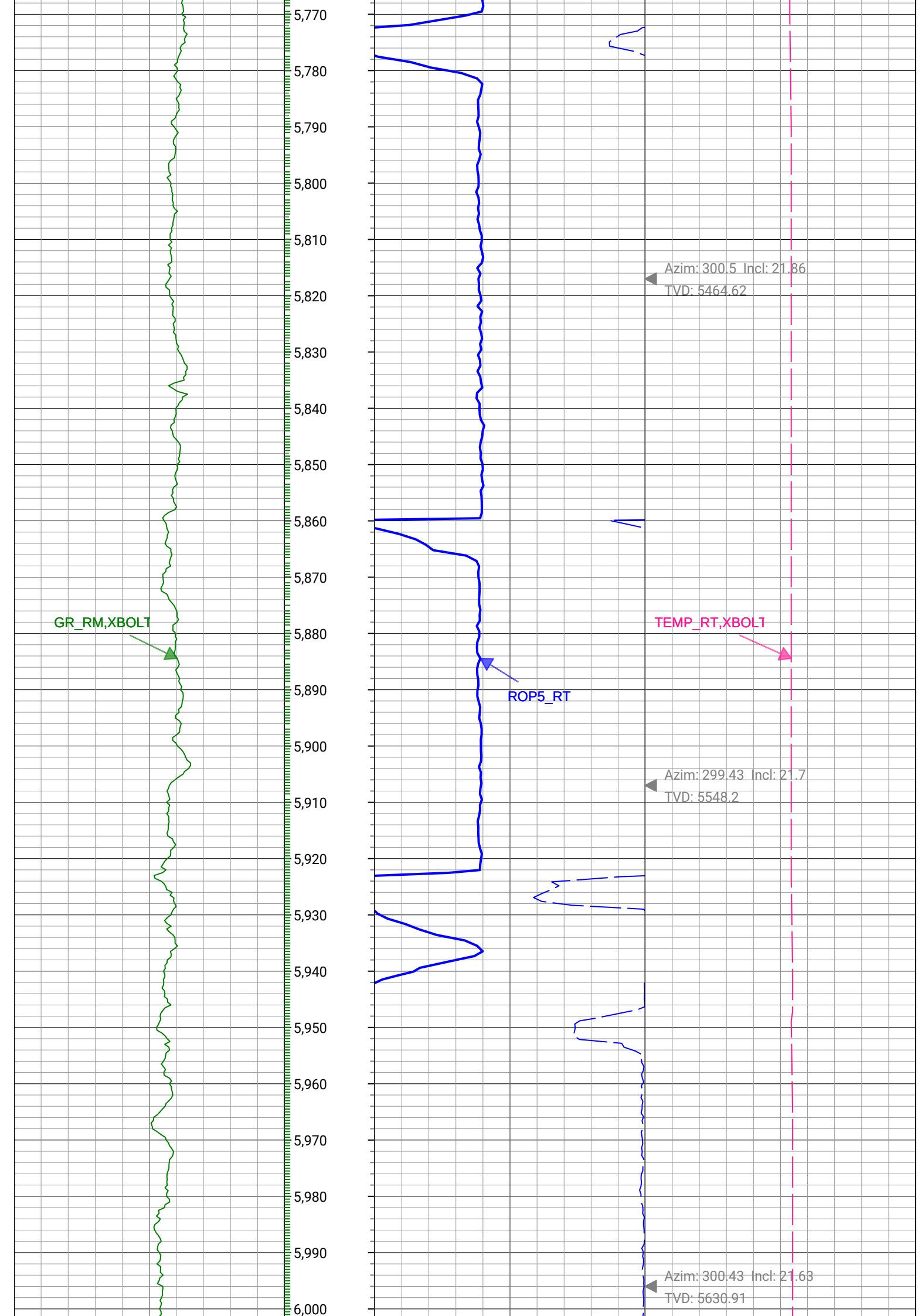
5,670
5,680
5,690
5,700
5,710
5,720
5,730
5,740
5,750
5,760
Azim: 300.26 Incl: 21.32
TVD: 5215.91
Azim: 301.32 Incl: 21.97
TVD: 5298.63
Azim: 300.58 Incl: 22.04
TVD: 5382.08
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT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5,840
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5,860
5,870
5,880
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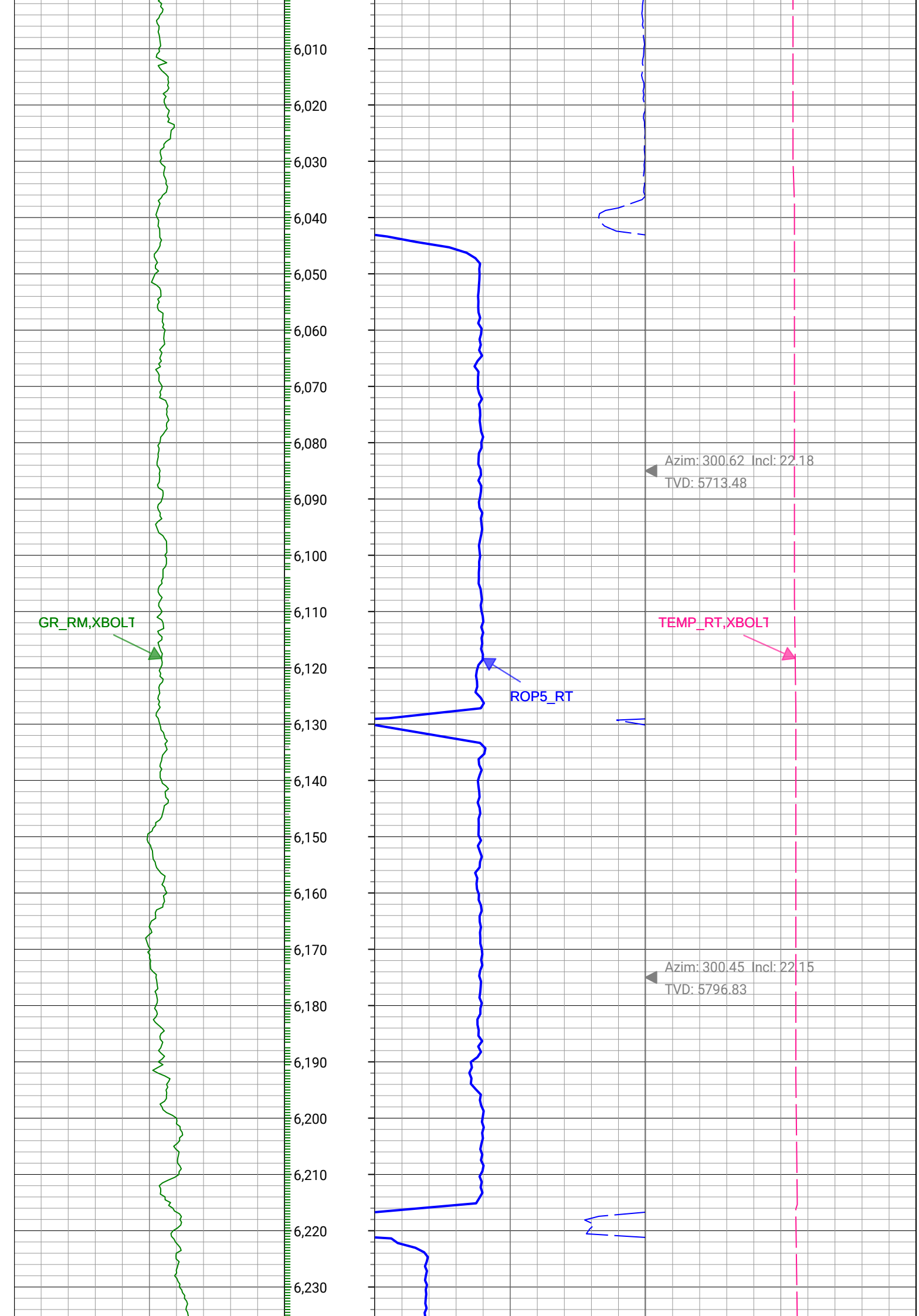
5,900
5,910
5,920
5,930
5,940
5,950
5,960
5,970
5,980
5,990
6,000
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 300.5 Incl: 21.86
TVD: 5464.62
Azim: 299.43 Incl: 21.7
TVD: 5548.2
Azim: 300.43 Incl: 21.63
TVD: 5630.91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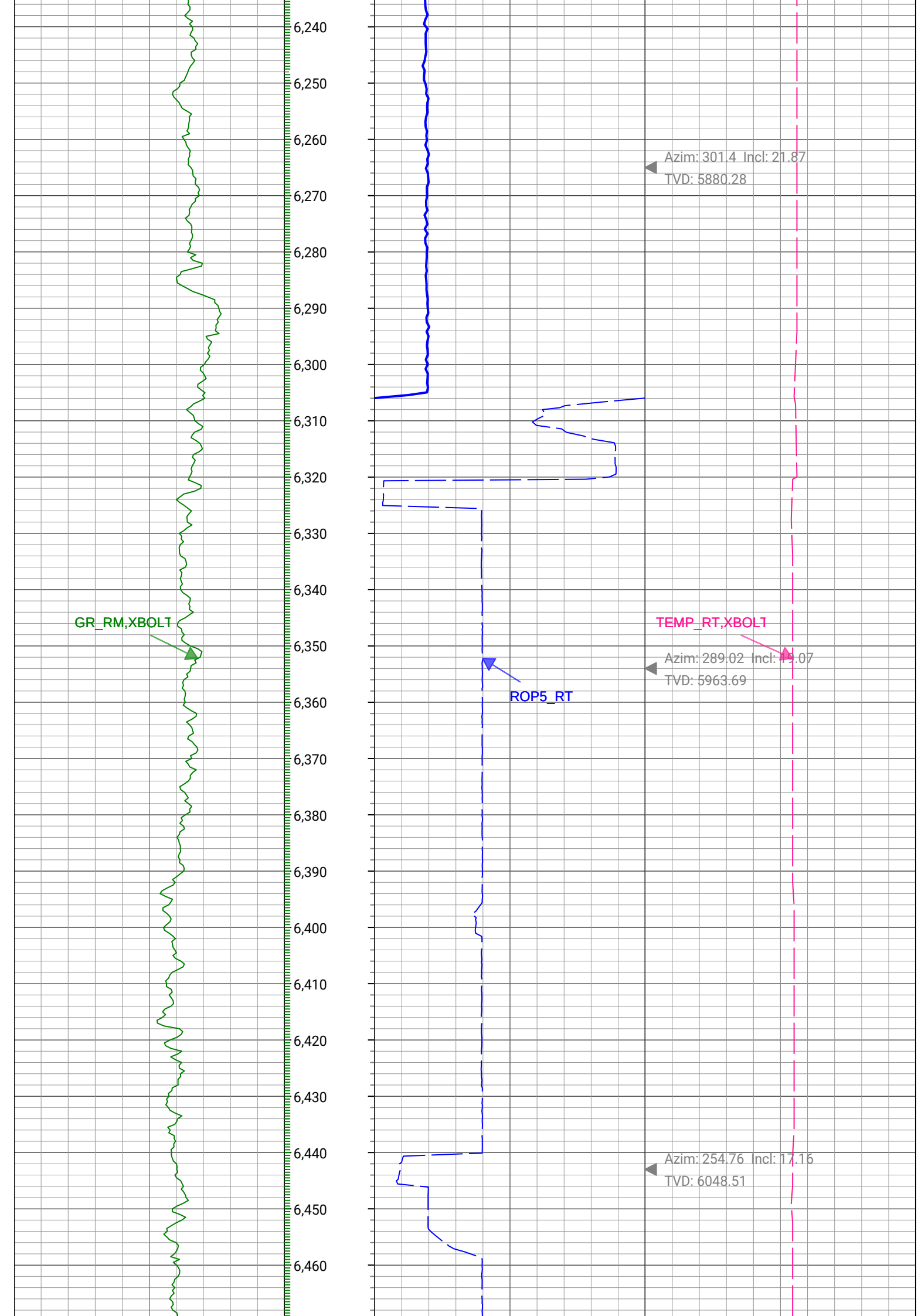
6,140
6,150
6,160
6,170
6,180
6,190
6,200
6,210
6,220
6,230
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 300.62 Incl: 22.18
TVD: 5713.48
Azim: 300.45 Incl: 22.15
TVD: 5796.83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6,360
6,370
6,380
6,390
6,400
6,410
6,420
6,430
6,440
6,450
6,460
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 301.4 Incl: 21.87
TVD: 5880.28
Azim: 289.02 Incl: 19.07
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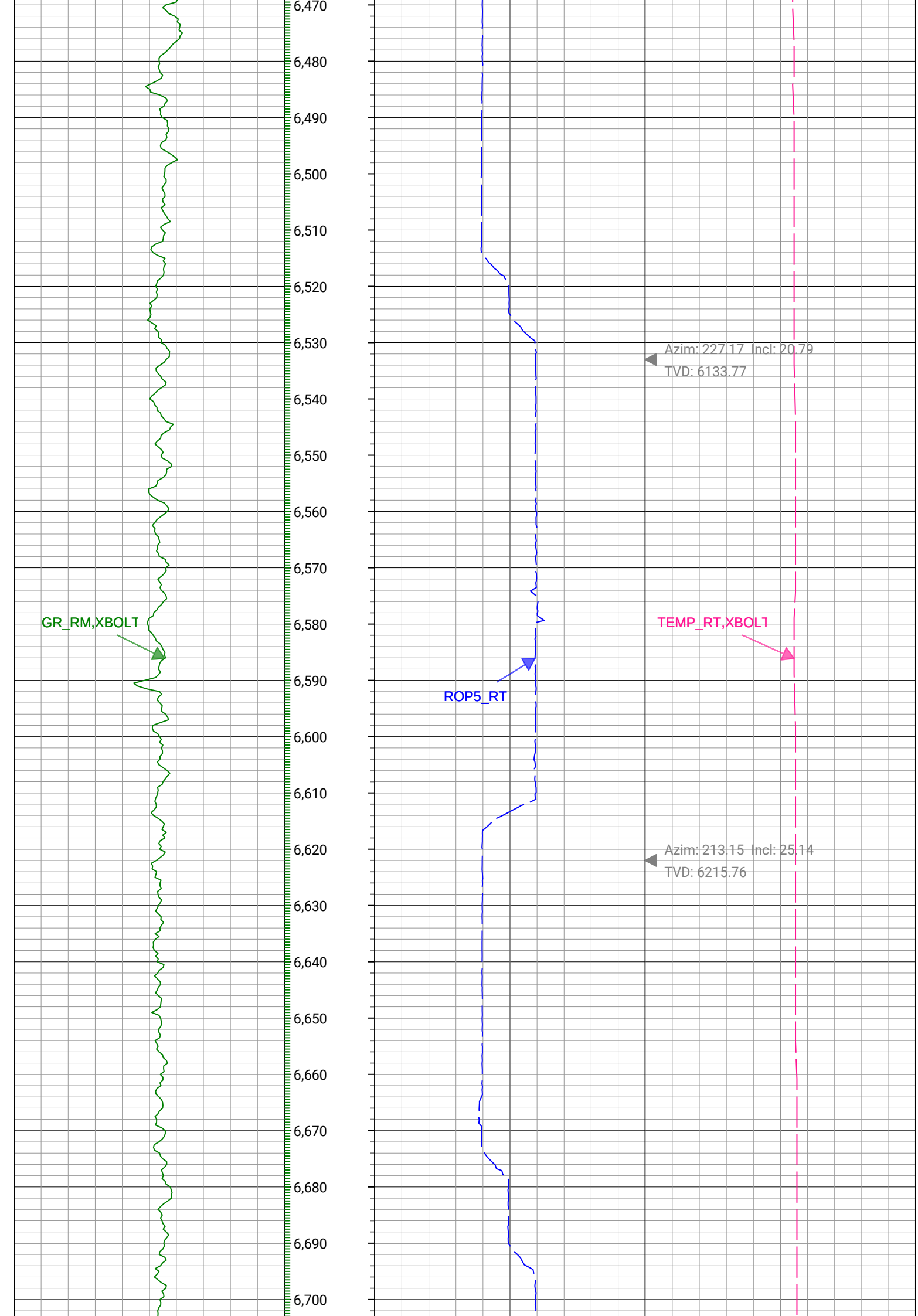
Azim: 254.76 Incl: 17.16
TVD: 6048.51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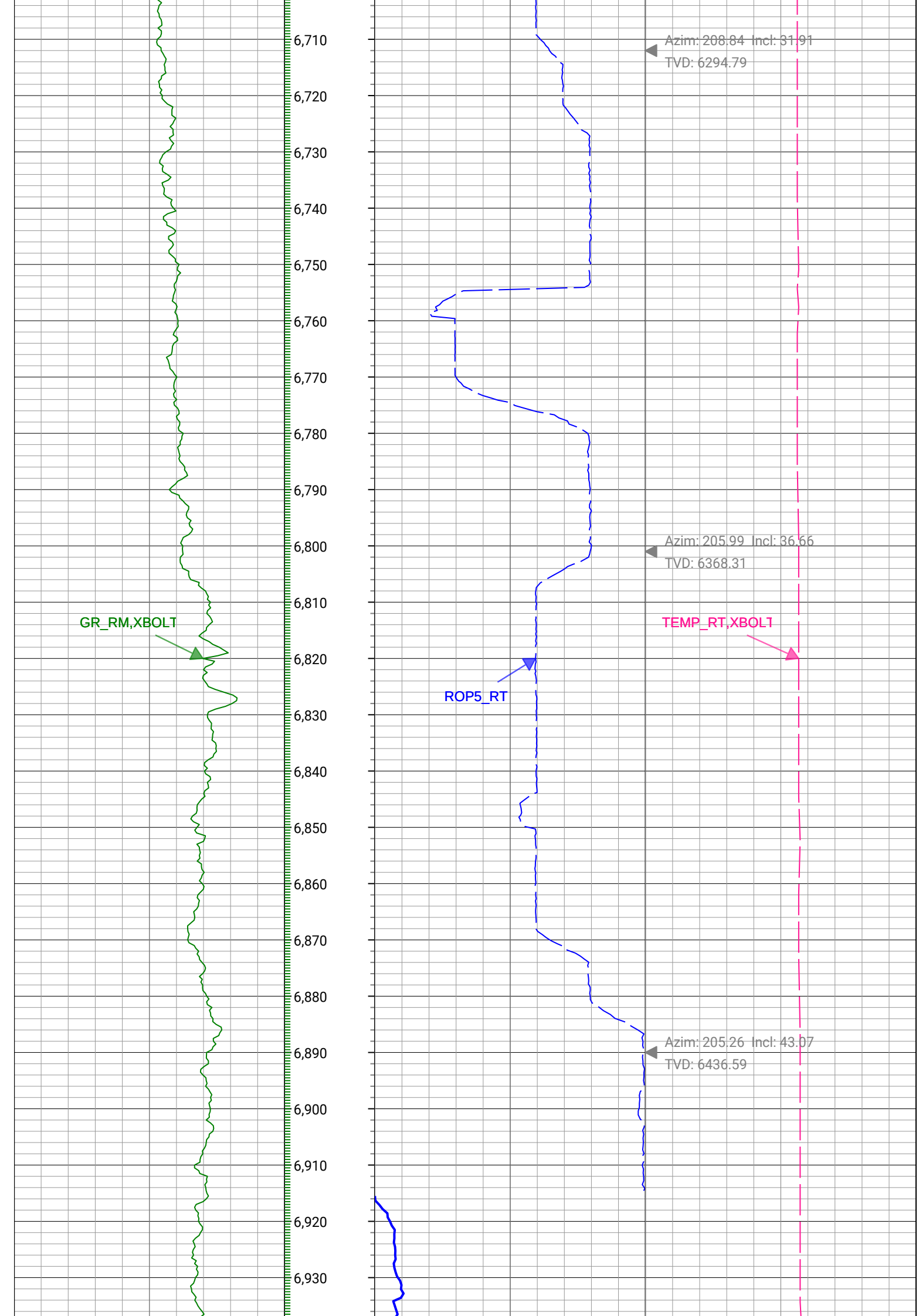
6,630
6,640
6,650
6,660
6,670
6,680
6,690
6,700
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 227.17 Incl: 20.79
TVD: 6133.77
Azim: 213.15 Incl: 25.14
TVD: 6215.76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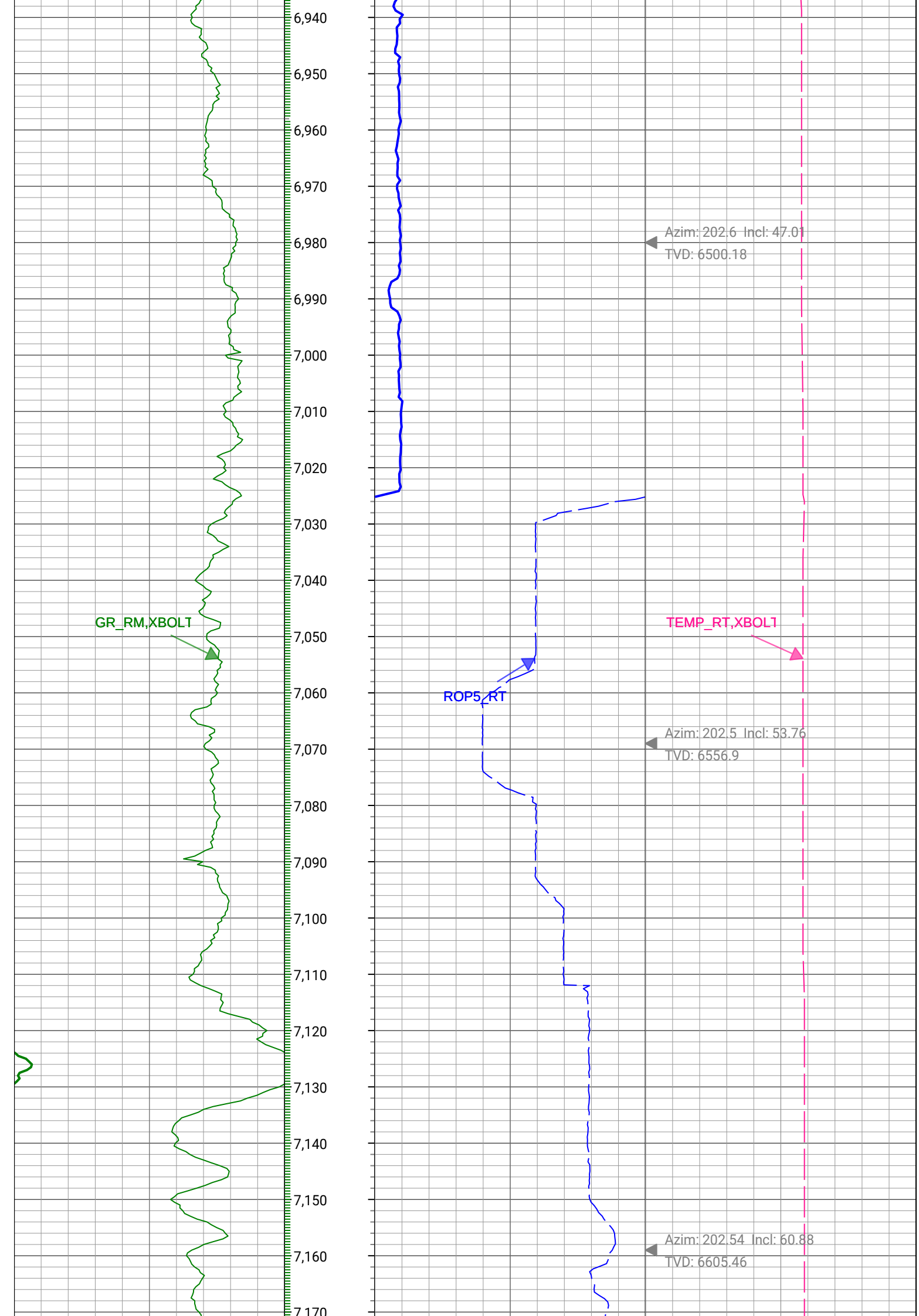
6,790
6,800
6,810
6,820
6,830
6,840
6,850
6,860
6,870
6,880
6,890
6,900
6,910
6,920
6,930
Azim: 208.84 Incl: 31.91
TVD: 6294.79
Azim: 205.99 Incl: 36.66
TVD: 6368.31
Azim: 205.26 Incl: 43.07
TVD: 6436.59
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT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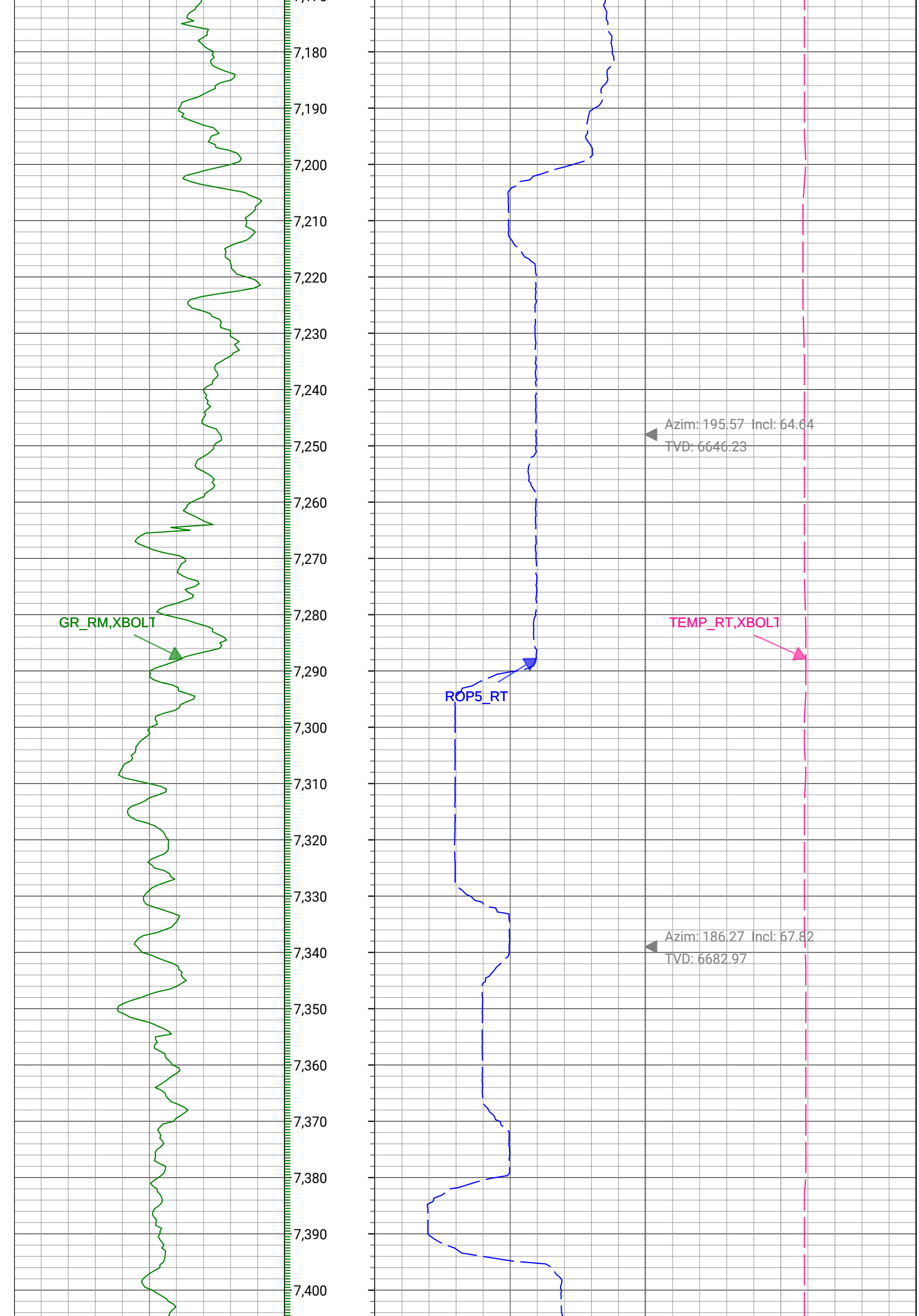
7,070
7,080
7,090
7,100
7,110
7,120
7,130
7,140
7,150
7,160
7,170
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 202.6 Incl: 47.01
TVD: 6500.18
Azim: 202.5 Incl: 53.76
TVD: 6556.9
Azim: 202.54 Incl: 60.88
TVD: 6605.46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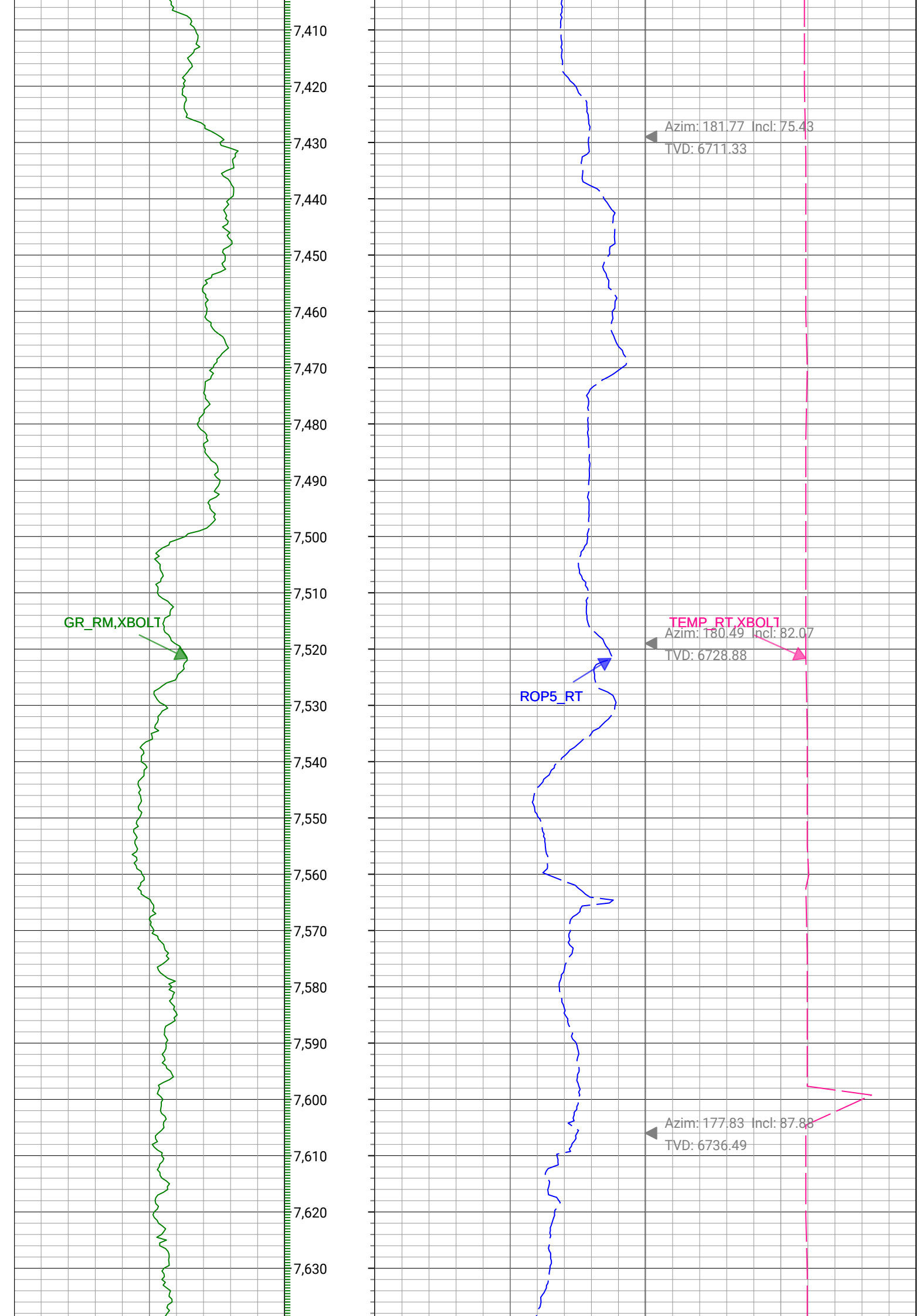
7,300
7,310
7,320
7,330
7,340
7,350
7,360
7,370
7,380
7,390
7,400
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 195.57 Incl: 64.64
TVD: 6646.23
Azim: 186.27 Incl: 67.82
TVD: 6682.97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7,480
7,490
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7,510
7,520
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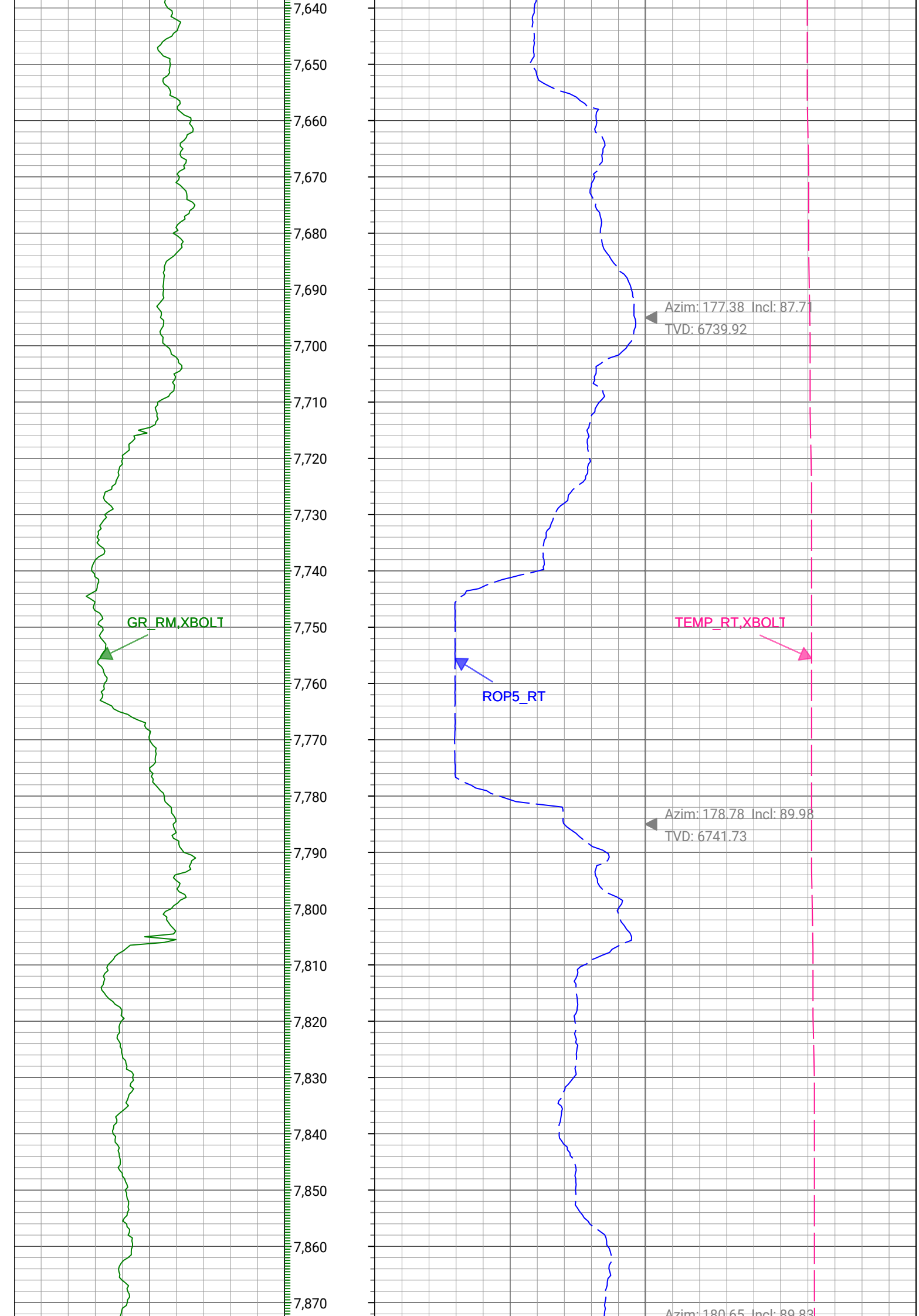
7,540
7,550
7,560
7,570
7,580
7,590
7,600
7,610
7,620
7,630
GR_RM,XBOLT
ROP5_RT
Azim: 181.77 Incl: 75.43
TVD: 6711.33
TEMP_RT,XBOLT
Azim: 180.49 Incl: 82.07
TVD: 6728.88
Azim: 177.83 Incl: 87.88
TVD: 6736.49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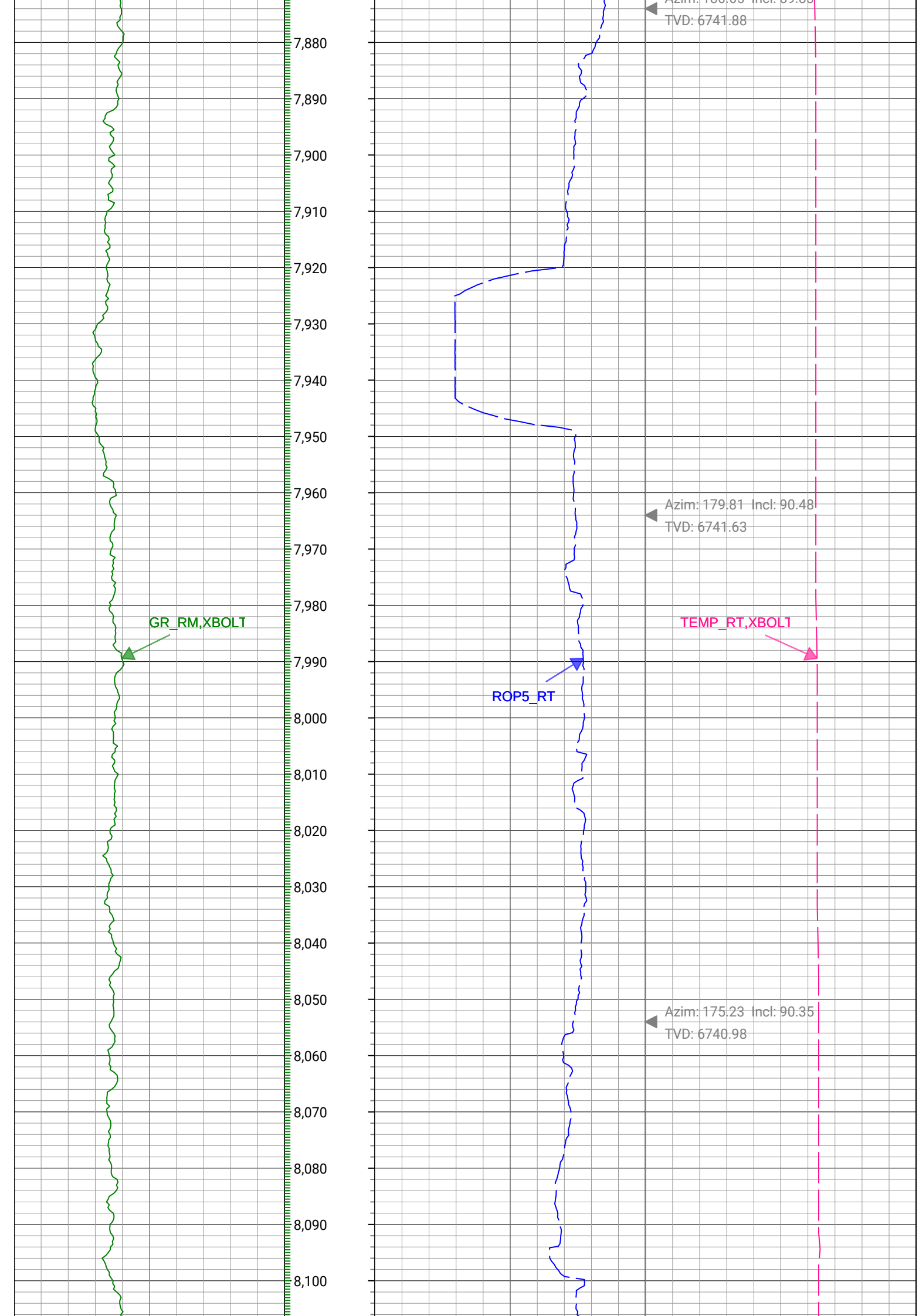
7,710
7,720
7,730
7,740
7,750
7,760
7,770
7,780
7,790
7,800
7,810
7,820
7,830
7,840
7,850
7,860
7,870
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 177.38 Incl: 87.71
TVD: 6739.92
Azim: 178.78 Incl: 89.98
TVD: 6741.73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7,930
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7,950
7,960
Azim: 179.81 Incl: 90.48
TVD: 6741.63
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7,980
GR_RM,XBOLT
TEMP_RT,XBOLT
7,990
ROP5_RT
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8,020
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Azim: 175.23 Incl: 90.35
TVD: 6740.98
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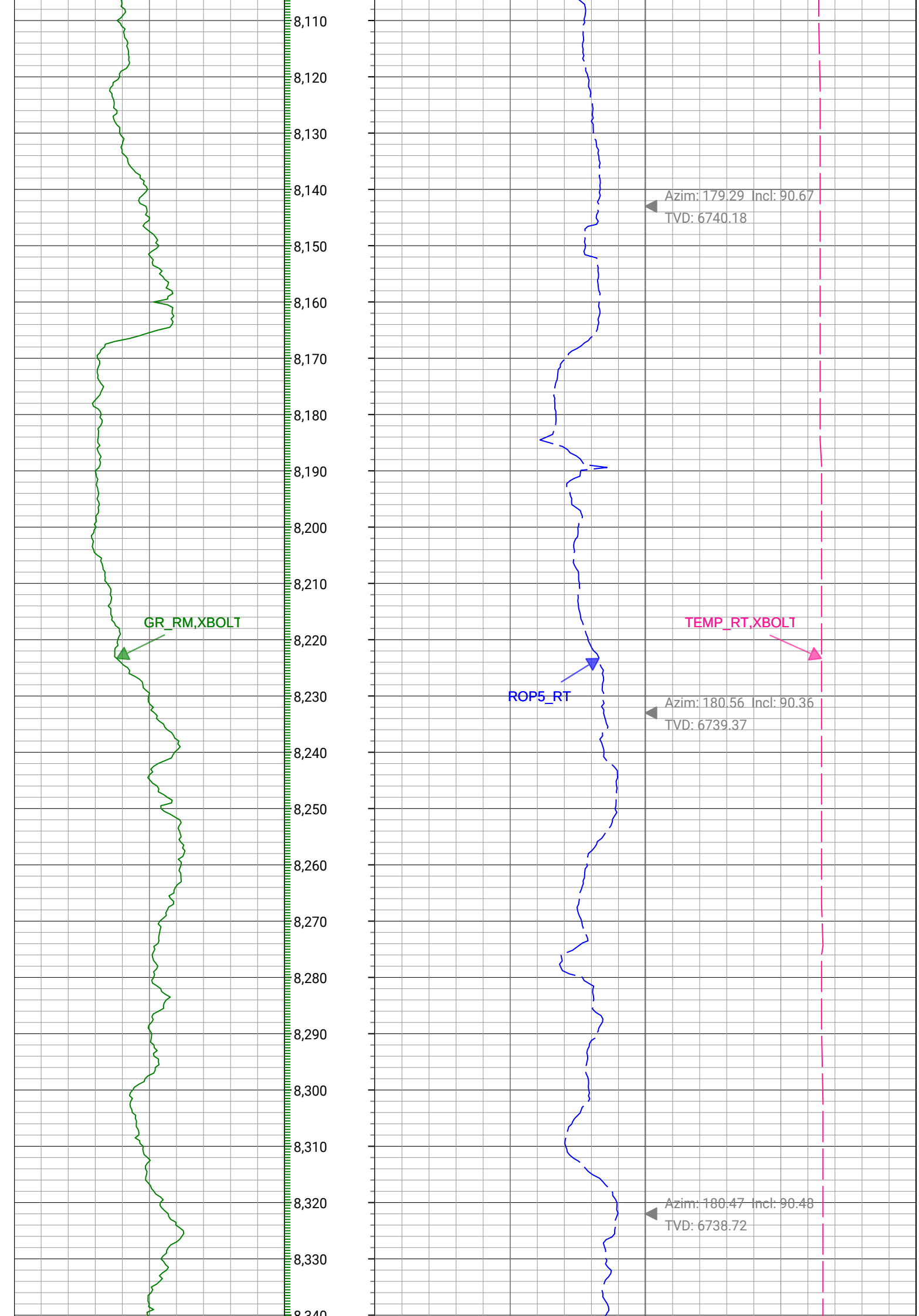
8,090
8,100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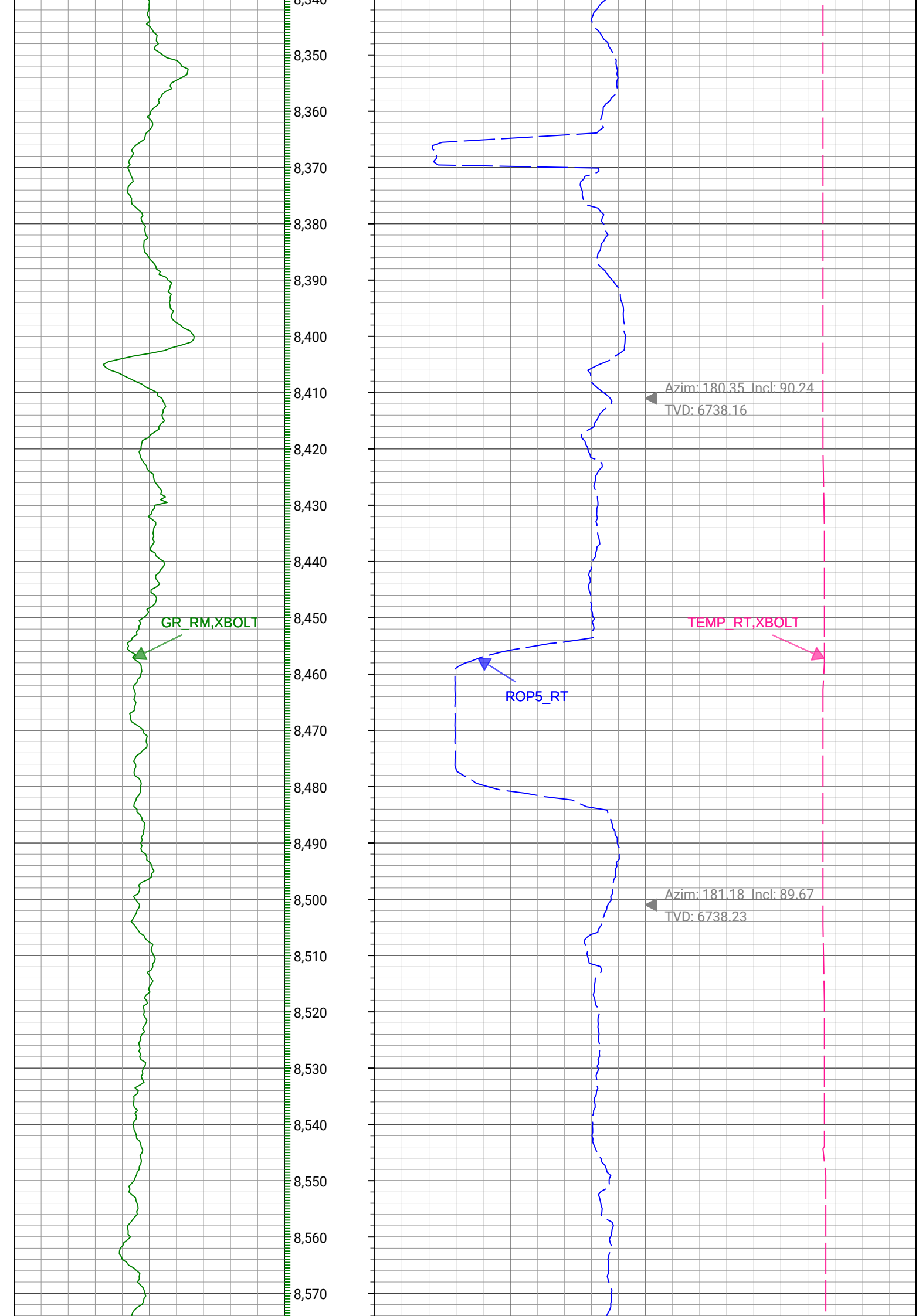
8,230
8,240
8,250
8,260
8,270
8,280
8,290
8,300
8,310
8,320
8,330
8,340
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT
Azim: 179.29 Incl: 90.67
TVD: 6740.18
Azim: 180.56 Incl: 90.36
TVD: 6739.37
Azim: 180.47 Incl: 90.48
TVD: 6738.72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8,460
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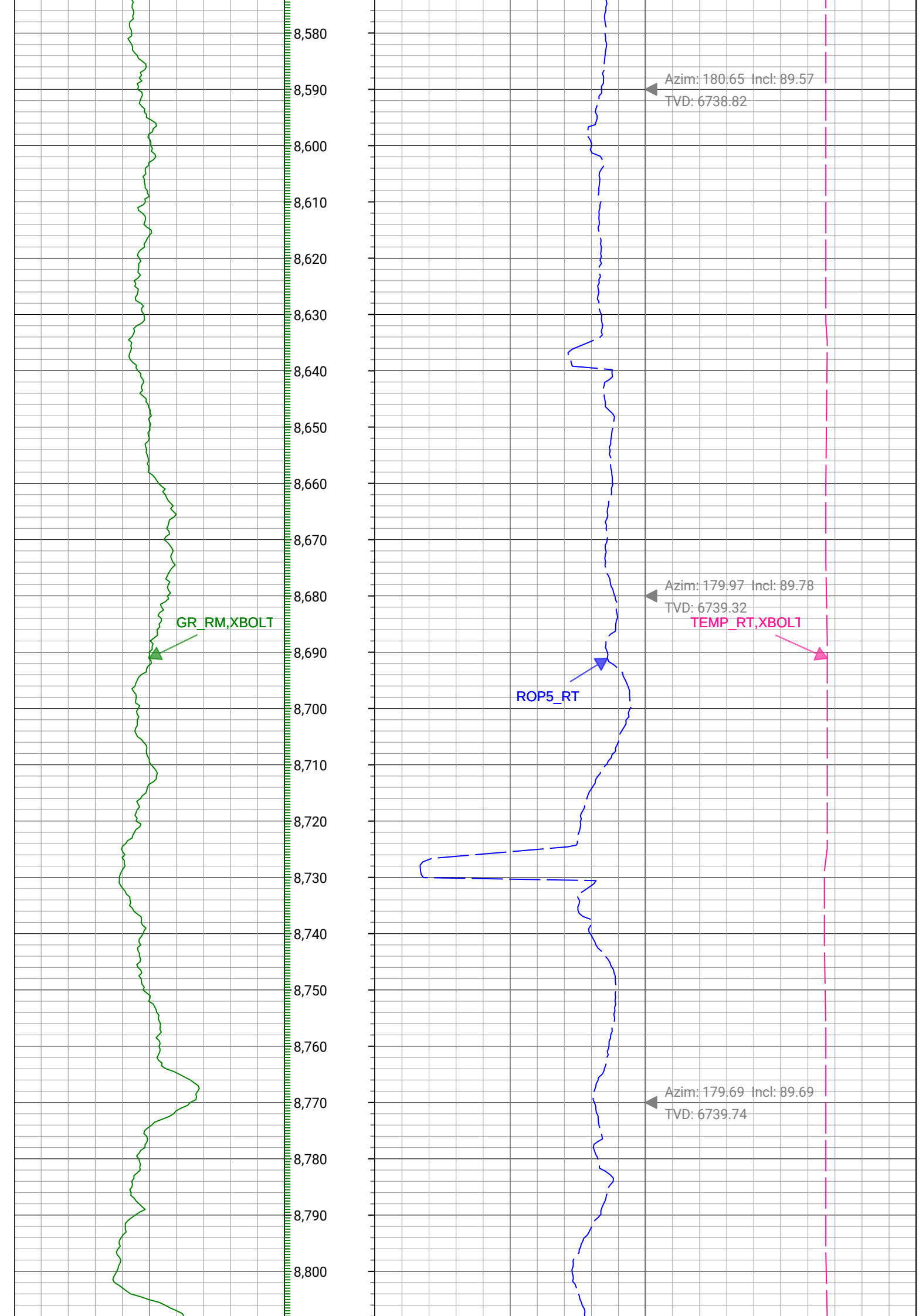
8,490
8,500
8,510
8,520
8,530
8,540
8,550
8,560
8,570
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 180.35 Incl: 90.24
TVD: 6738.16
Azim: 181.18 Incl: 89.67
TVD: 6738.23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8,680
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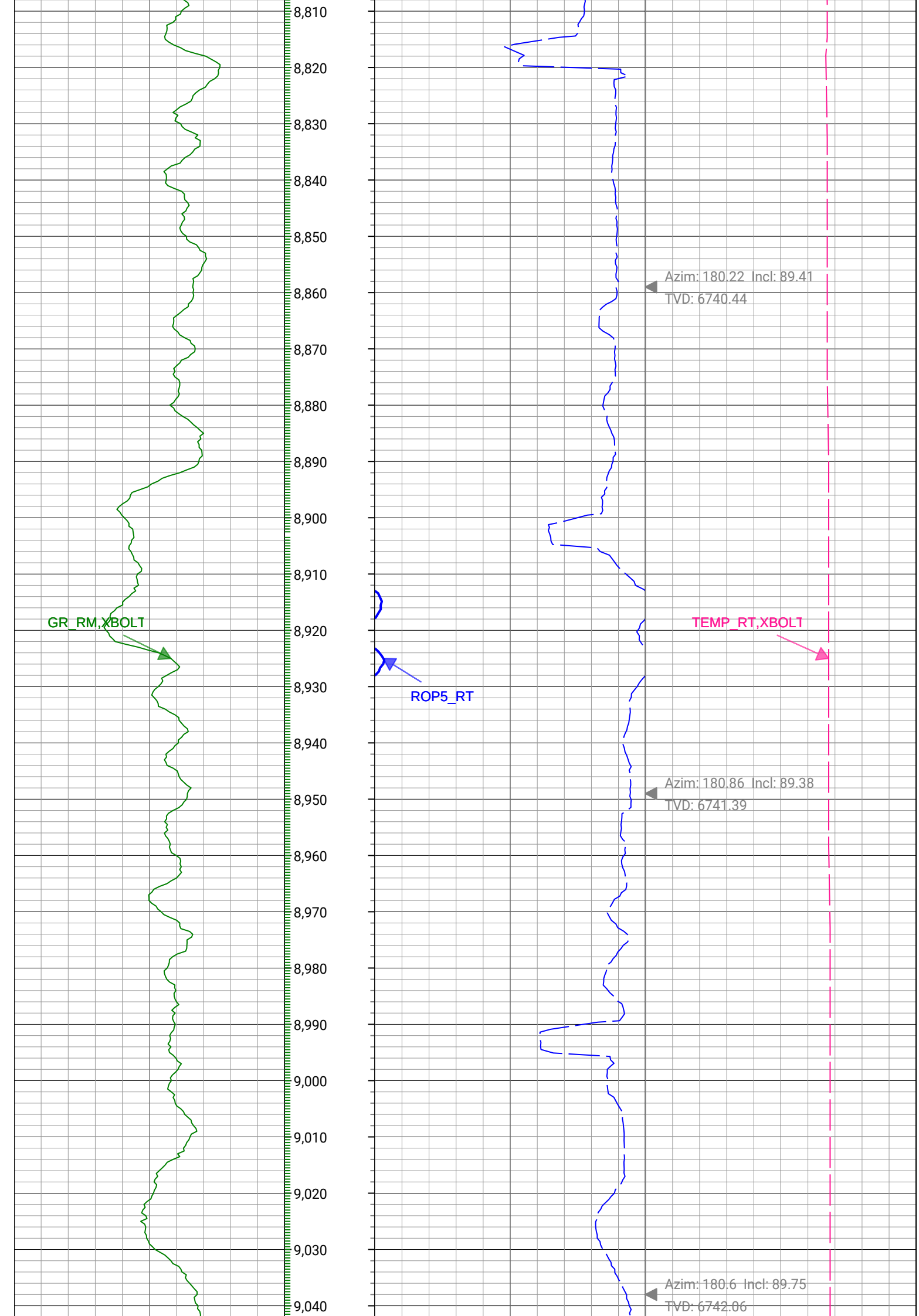
8,710
8,720
8,730
8,740
8,750
8,760
8,770
8,780
8,790
8,800
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 180.65 Incl: 89.57
TVD: 6738.82
Azim: 179.97 Incl: 89.78
TVD: 6739.32
Azim: 179.69 Incl: 89.69
TVD: 6739.74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8,860
8,870
8,880
8,890
8,900
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8,930
8,940
8,950
8,960
8,970
8,980
8,990
9,000
9,010
9,020
9,030
9,040
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 180.22 Incl: 89.41
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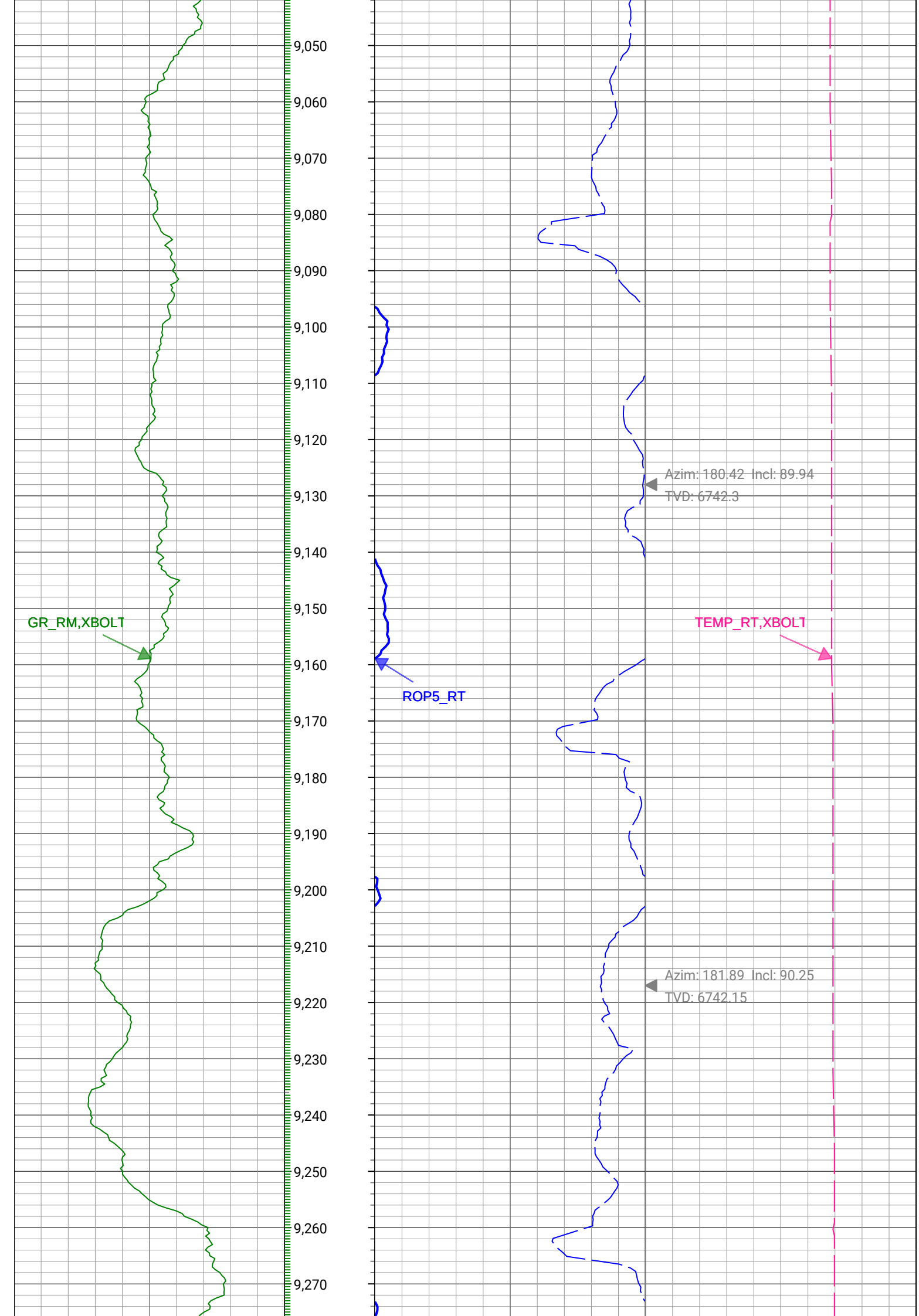
Azim: 180.86 Incl: 89.38
TVD: 6741.39
Azim: 180.6 Incl: 89.75
TVD: 6742.06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9,260
9,270
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 180.42 Incl: 89.94
TVD: 6742.3
Azim: 181.89 Incl: 90.25
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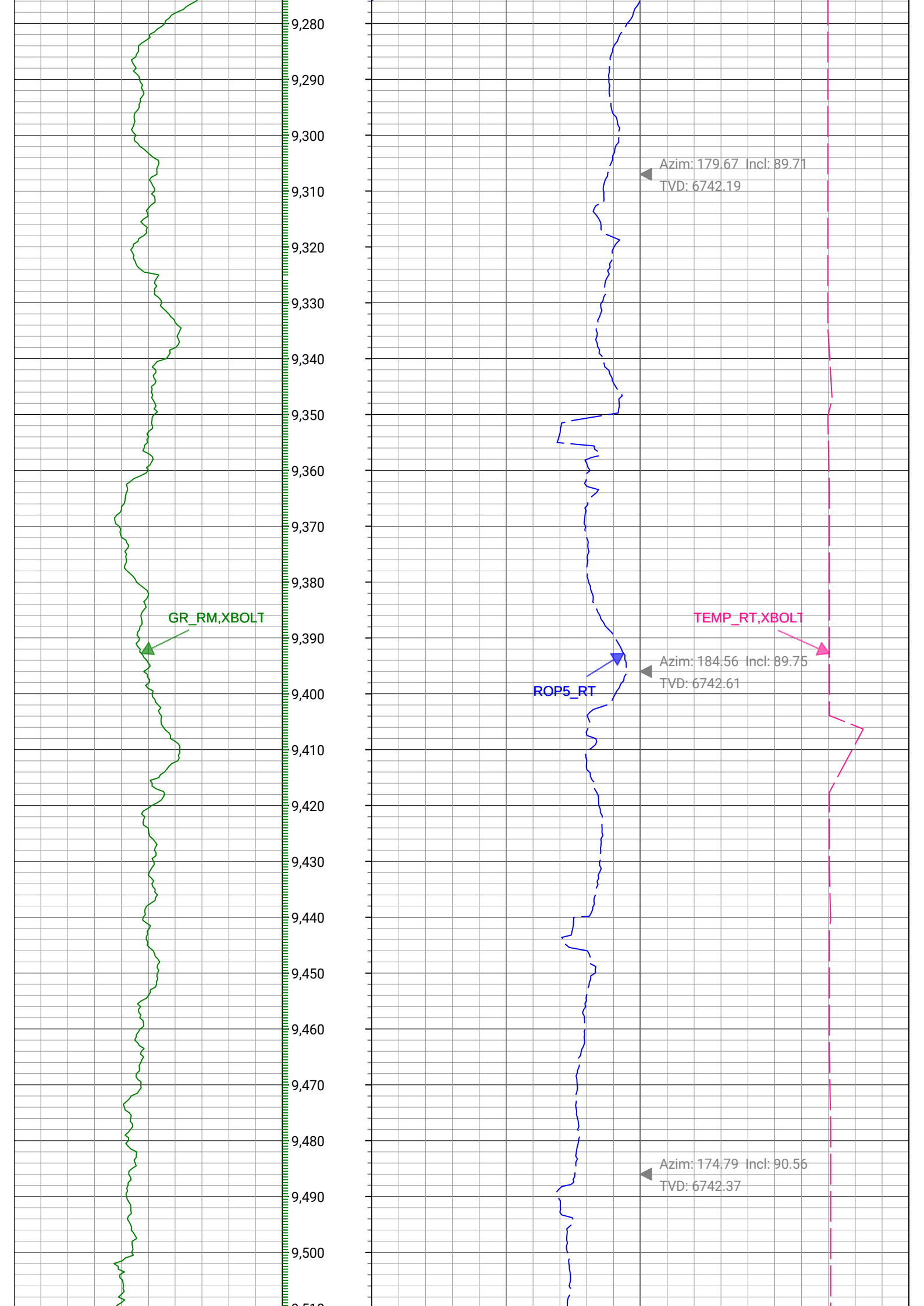
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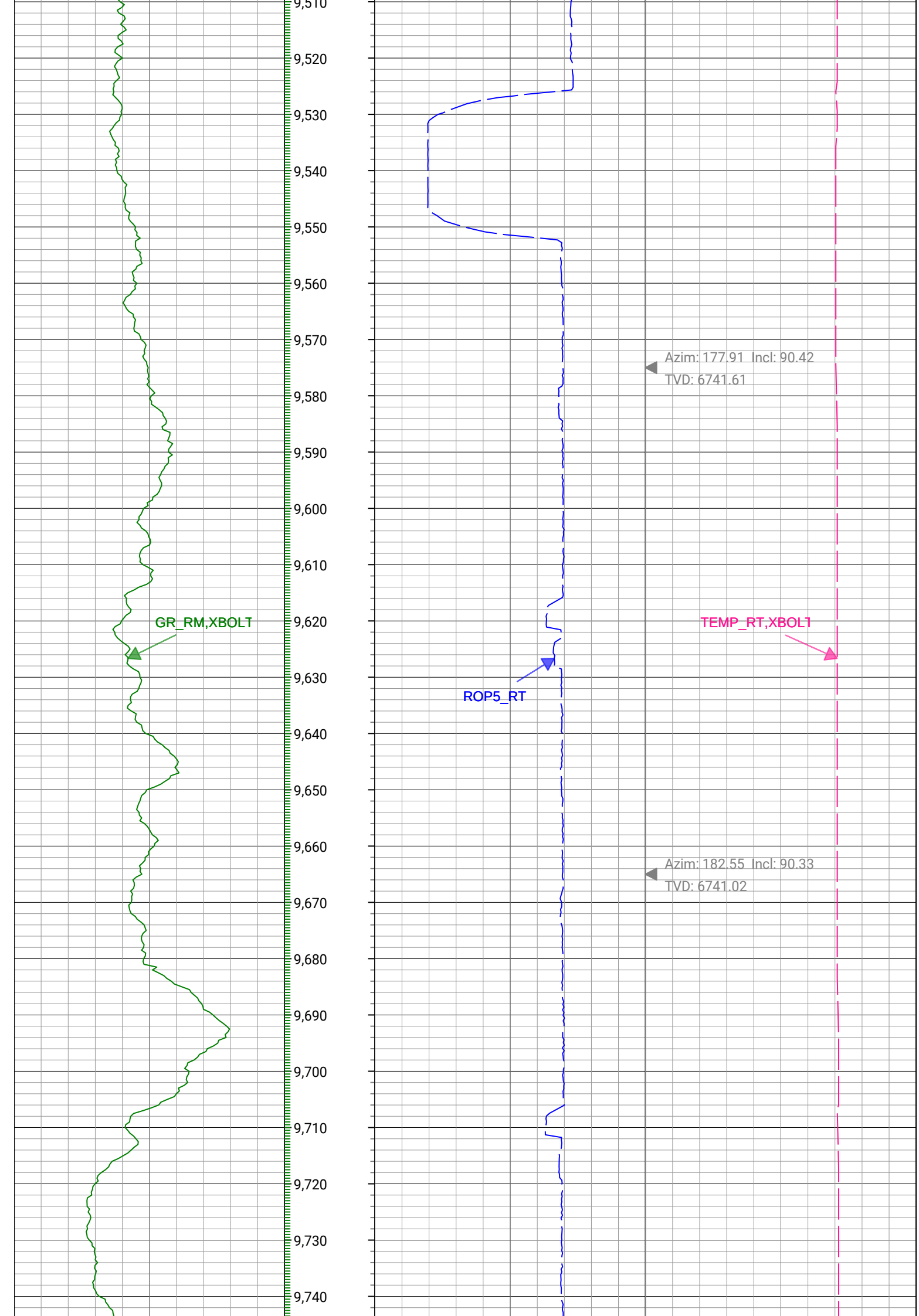
9,410
9,420
9,430
9,440
9,450
9,460
9,470
9,480
9,490
9,500
GR_RM,XBOLT
Azim: 179.67 Incl: 89.71
TVD: 6742.19
TEMP_RT,XBOLT
ROP5_RT
Azim: 184.56 Incl: 89.75
TVD: 6742.61
Azim: 174.79 Incl: 90.56
TVD: 6742.37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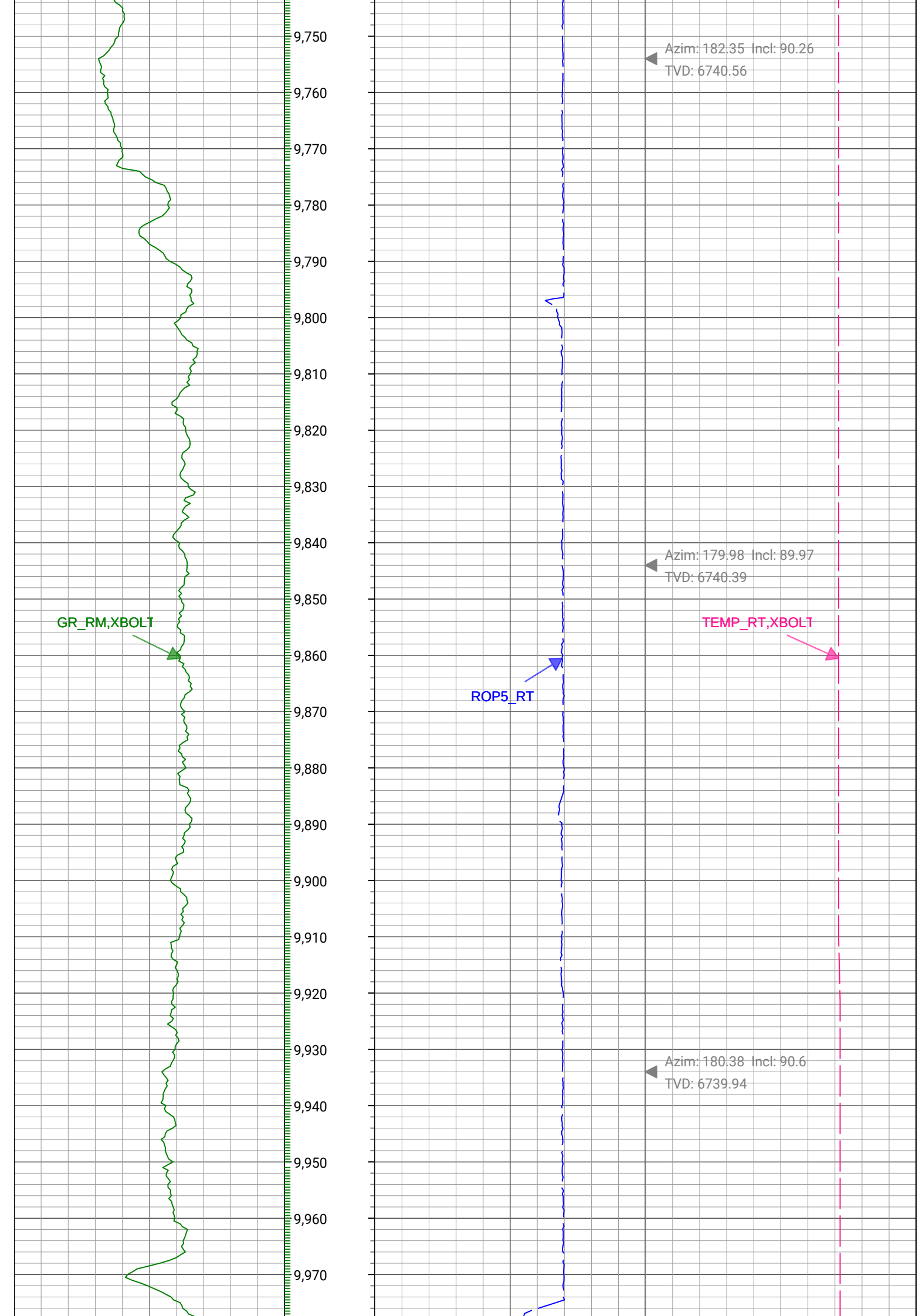
9,660
9,670
9,680
9,690
9,700
9,710
9,720
9,730
9,740
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 177.91 Incl: 90.42
TVD: 6741.61
Azim: 182.55 Incl: 90.33
TVD: 6741.02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9,830
9,840
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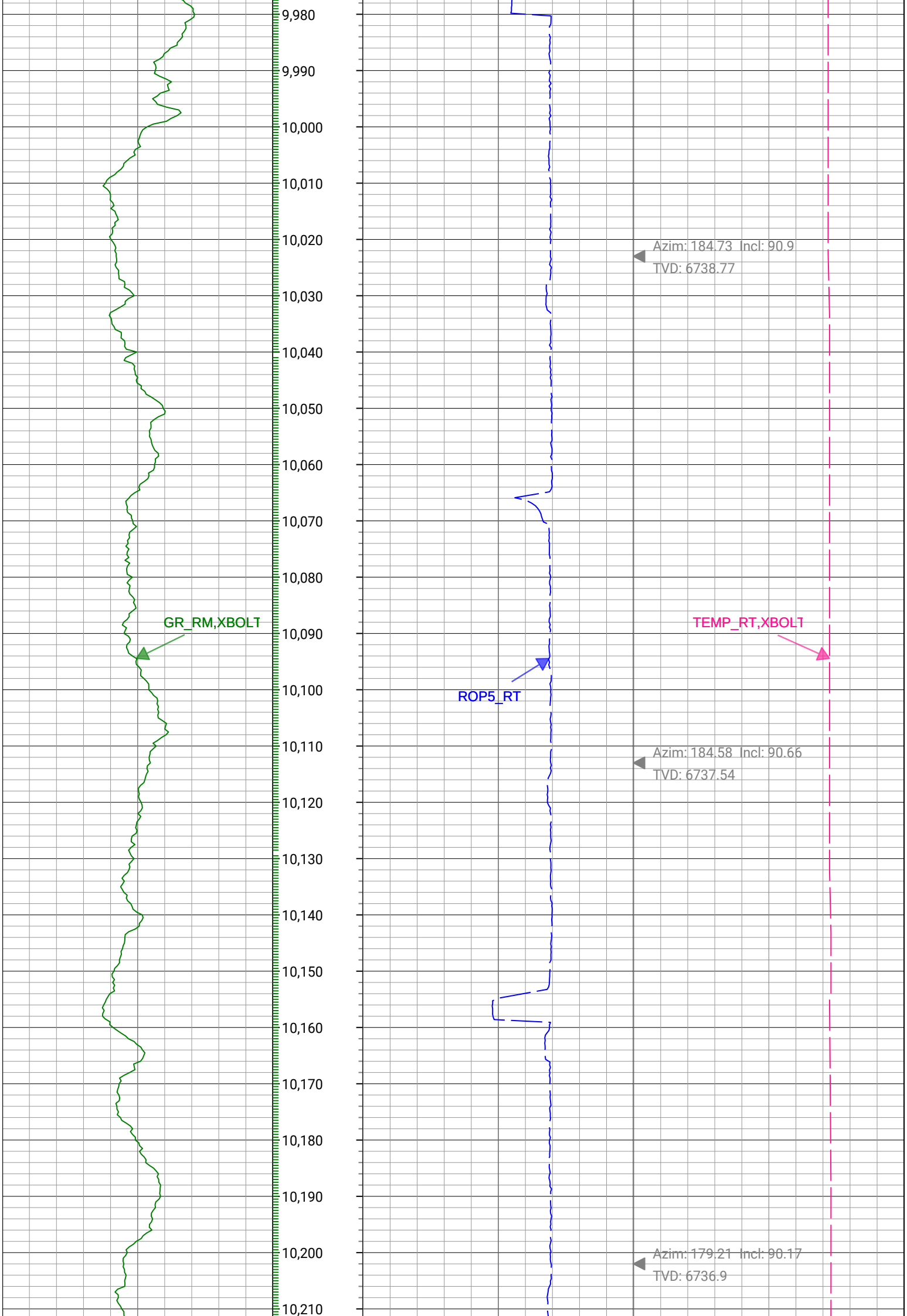
9,880
9,890
9,900
9,910
9,920
9,930
9,940
9,950
9,960
9,970
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 182.35 Incl: 90.26
TVD: 6740.56
Azim: 179.98 Incl: 89.97
TVD: 6740.39
Azim: 180.38 Incl: 90.6
TVD: 6739.94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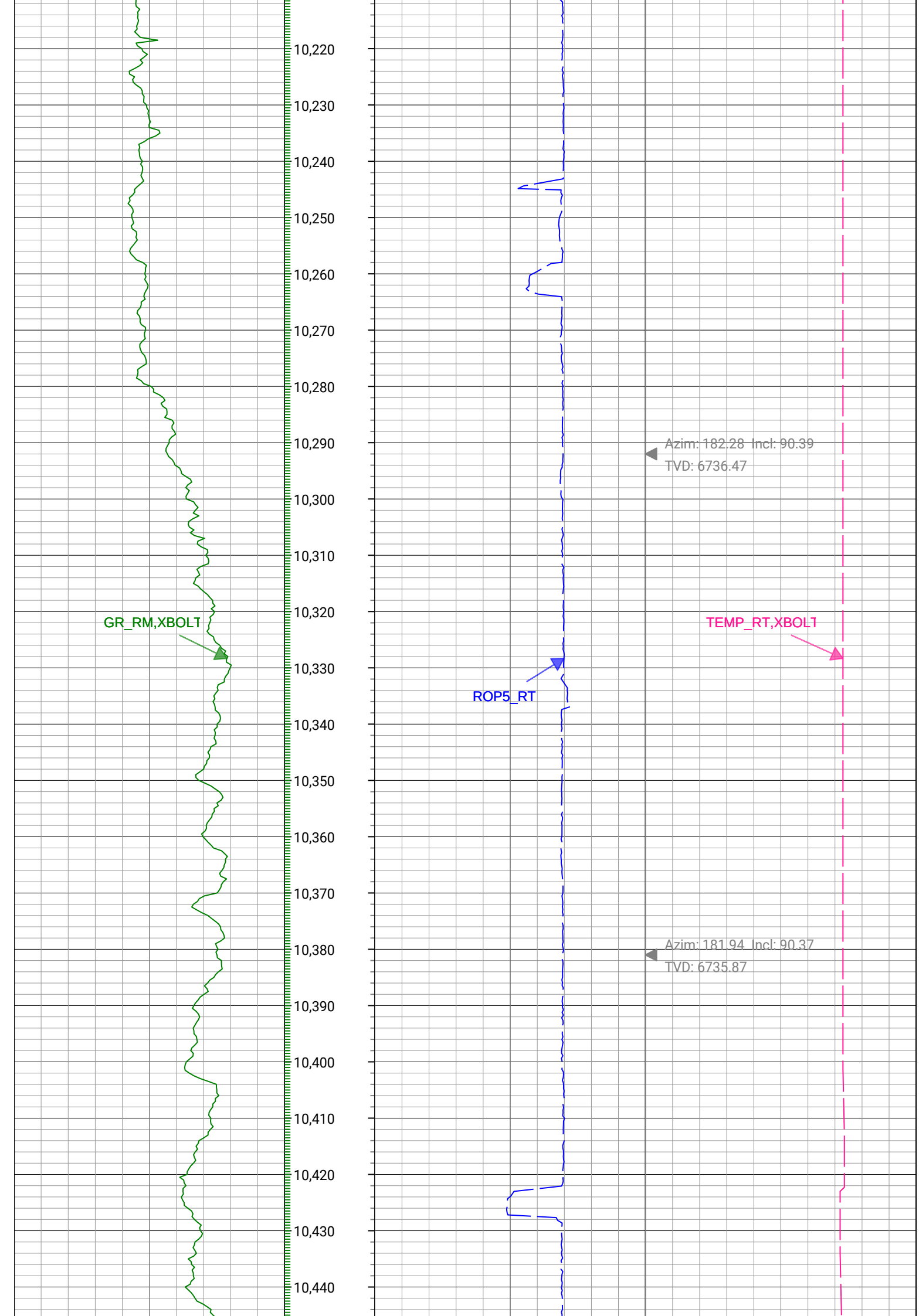
10,140
10,150
10,160
10,170
10,180
10,190
10,200
10,210
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 184.73 Incl: 90.9
TVD: 6738.77
Azim: 184.58 Incl: 90.66
TVD: 6737.54
Azim: 179.21 Incl: 90.17
TVD: 6736.9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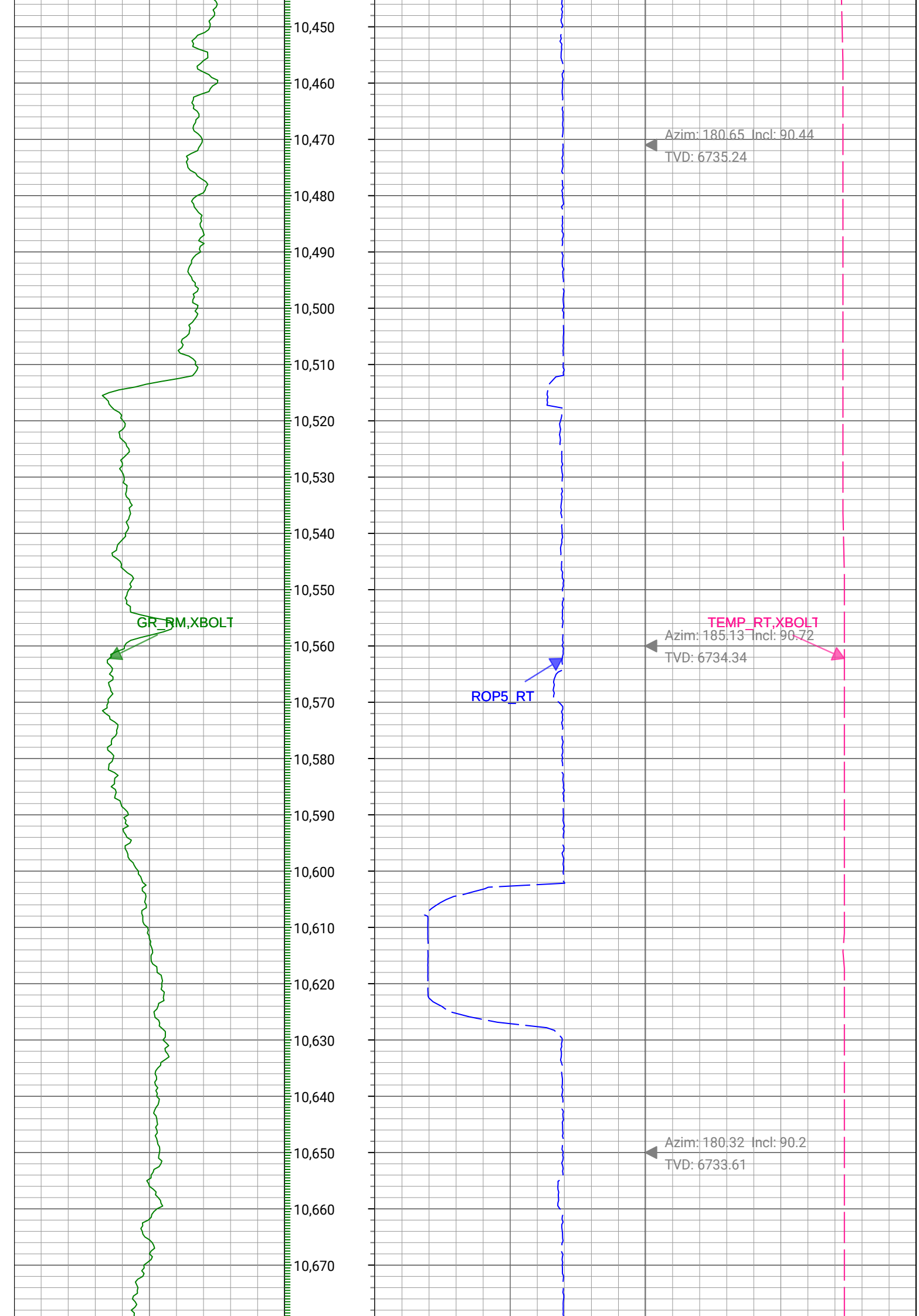
10,360
10,370
10,380
10,390
10,400
10,410
10,420
10,430
10,440
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 182.28 Incl: 90.39
TVD: 6736.47
Azim: 181.94 Incl: 90.37
TVD: 6735.87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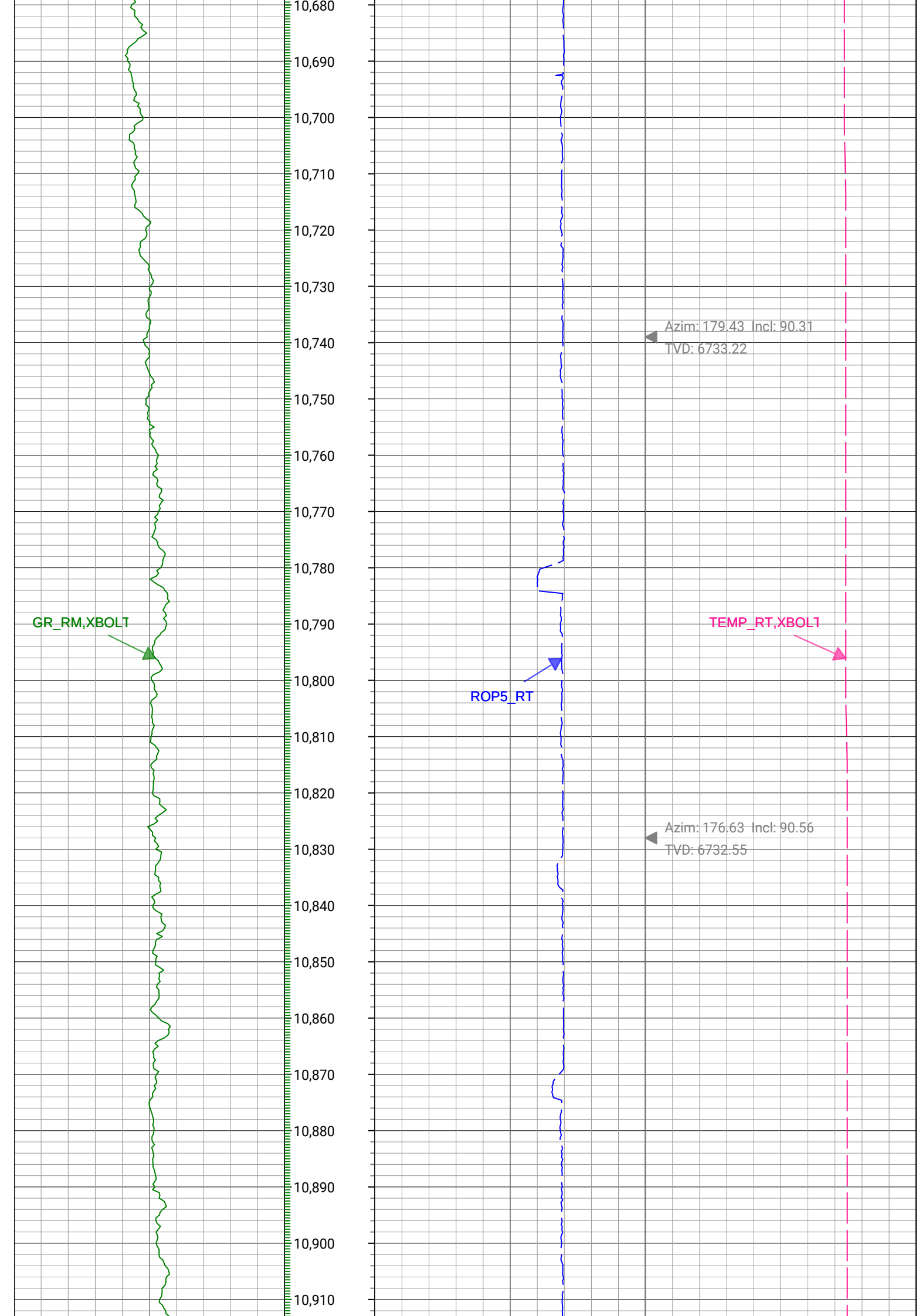
10,600
10,610
10,620
10,630
10,640
10,650
10,660
10,670
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 180.65 Incl: 90.44
TVD: 6735.24
Azim: 185.13 Incl: 90.72
TVD: 6734.34
Azim: 180.32 Incl: 90.2
TVD: 6733.61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10,820
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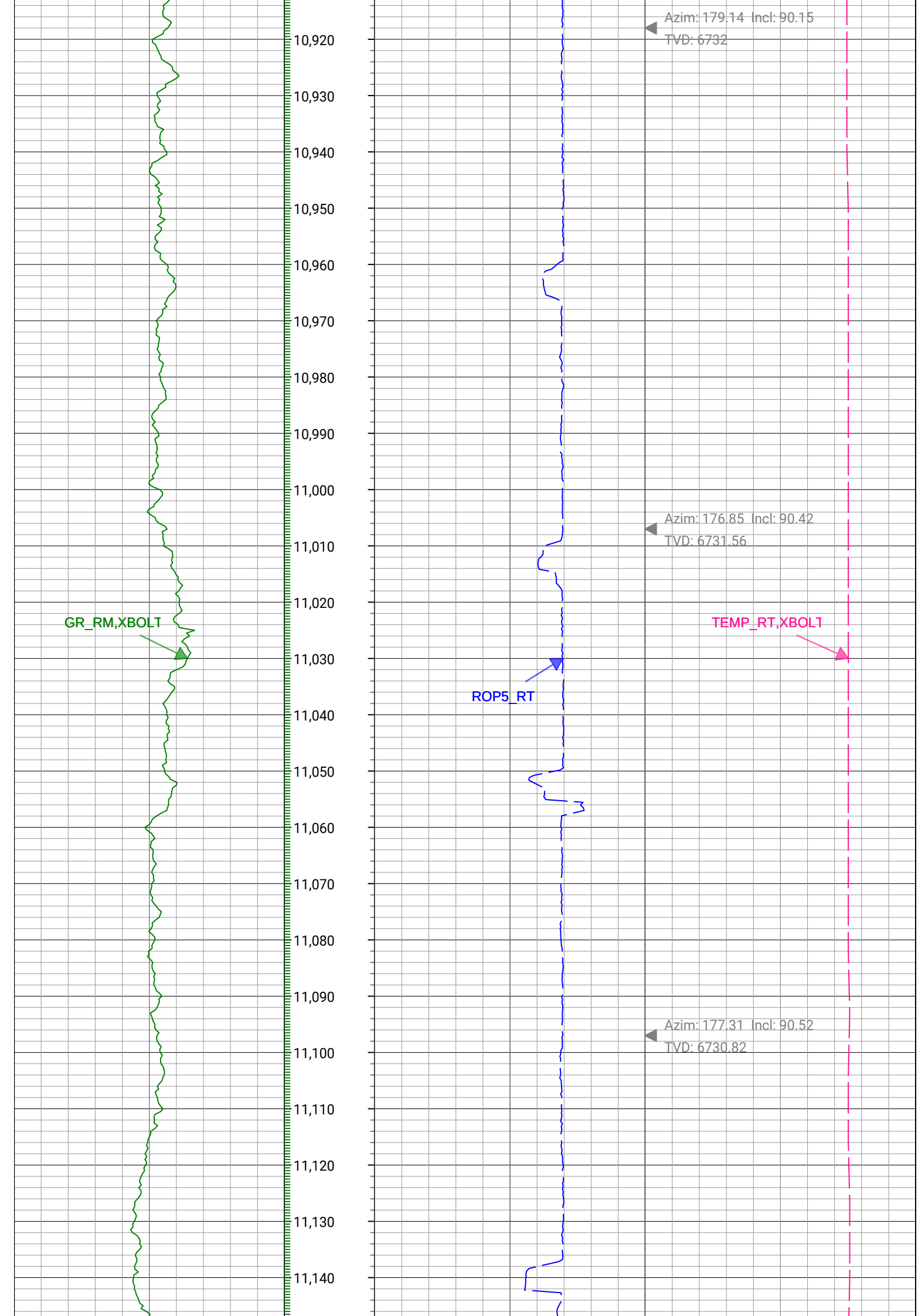
10,870
10,880
10,890
10,900
10,910
Azim: 179.43 Incl: 90.31
TVD: 6733.22
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT
Azim: 176.63 Incl: 90.56
TVD: 6732.55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Azim: 177.31 Incl: 90.52
TVD: 6730.82
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ROP5_RT
TEMP_RT,XBOLT
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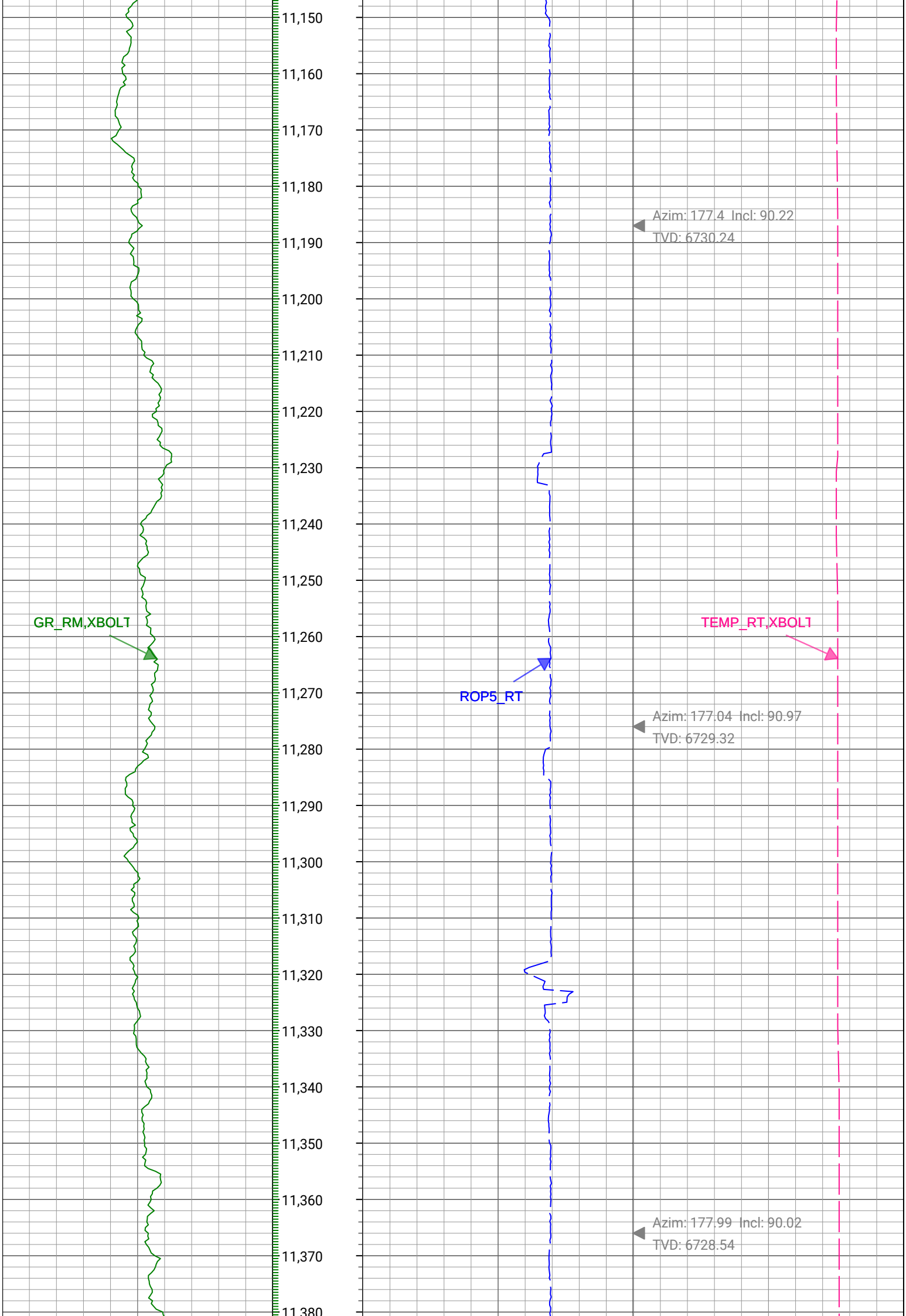
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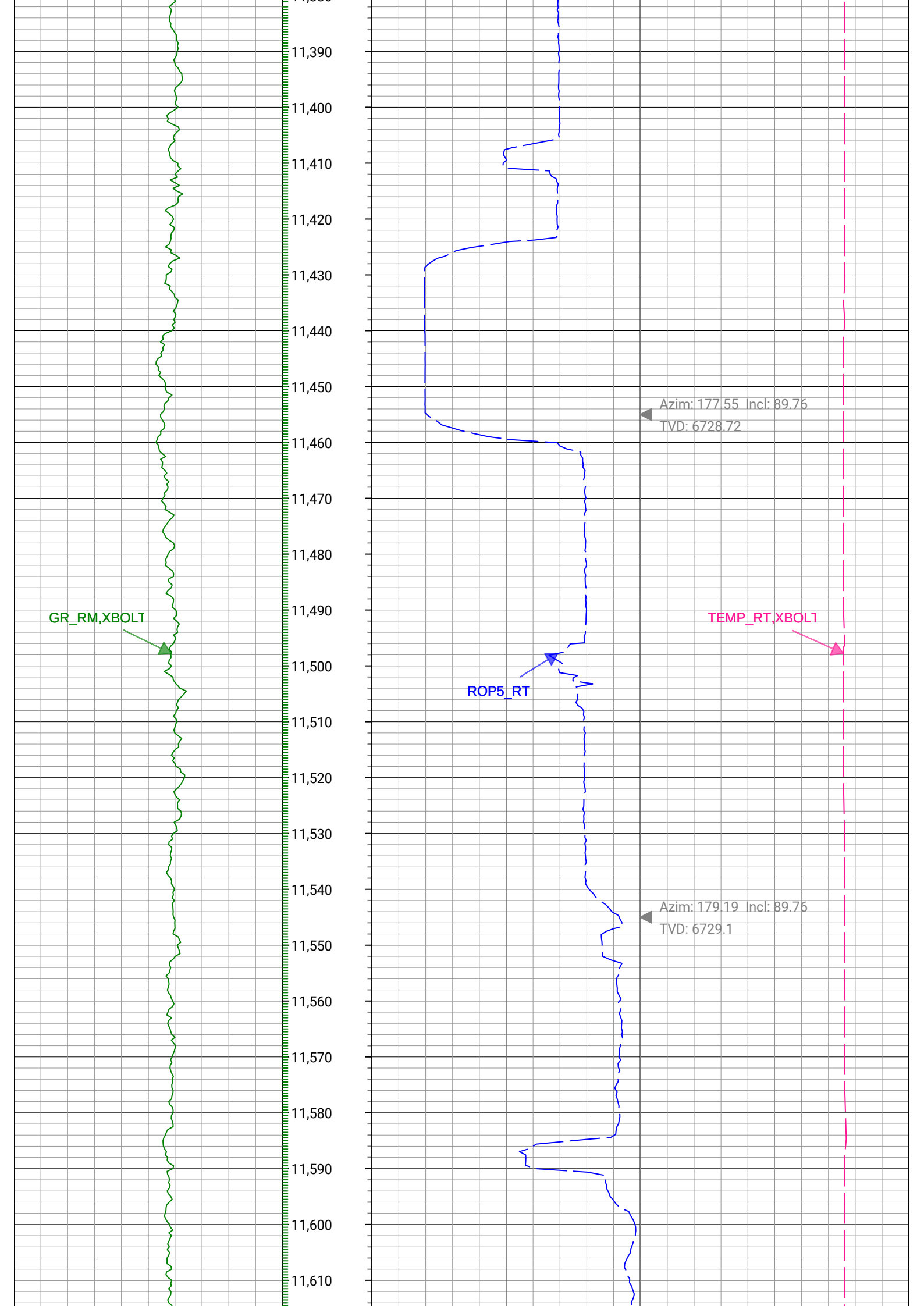
11,380
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 177.4 Incl: 90.22
TVD: 6730.24
Azim: 177.04 Incl: 90.97
TVD: 6729.32
Azim: 177.99 Incl: 90.02
TVD: 6728.54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11,540
11,550
11,560
11,570
11,580
11,590
11,600
11,610
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
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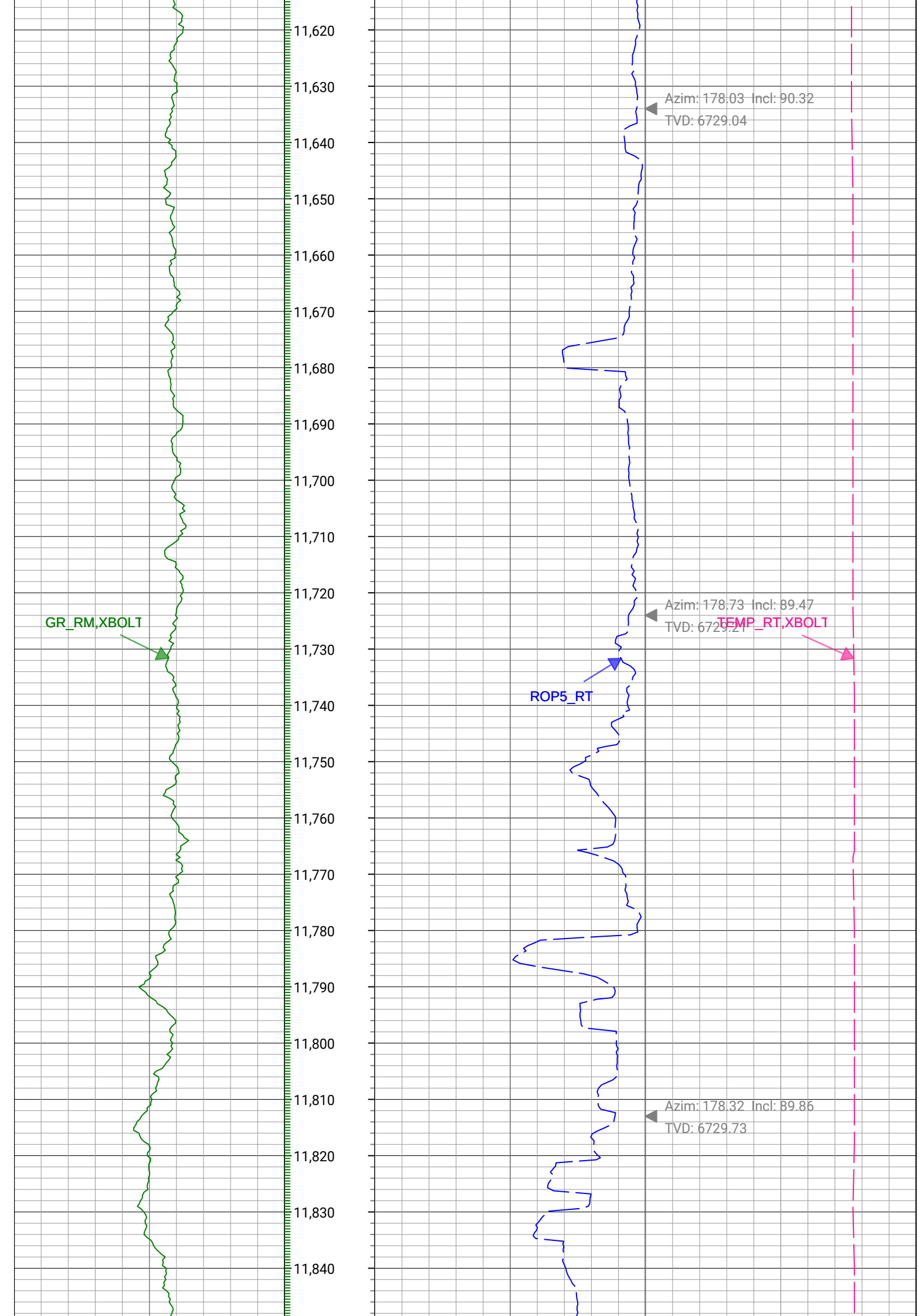
TVD: 6728.72
Azim: 179.19 Incl: 89.76
TVD: 6729.1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11,750
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11,770
11,780
11,790
11,800
11,810
11,820
11,830
11,840
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 178.03 Incl: 90.32
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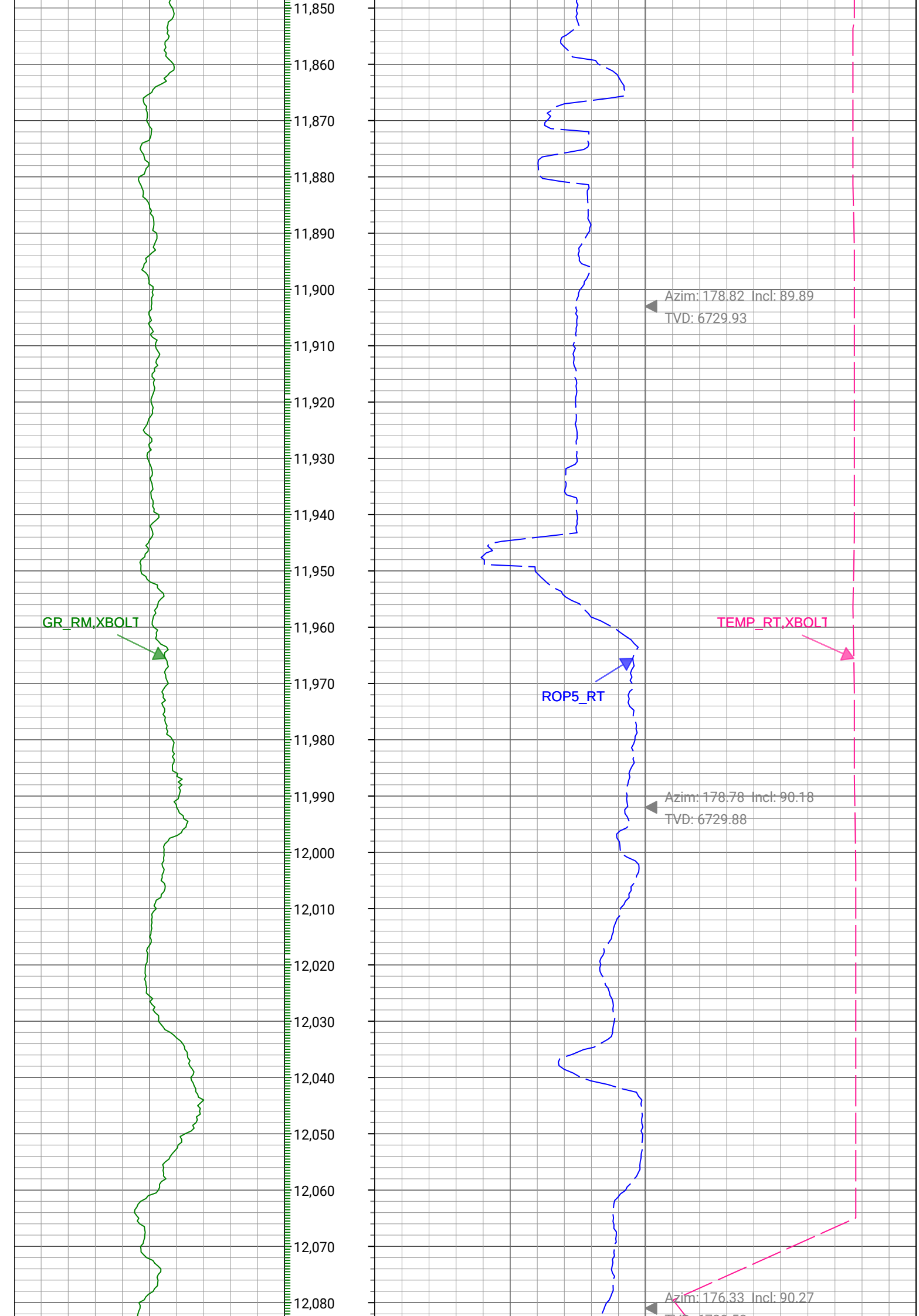
Azim: 178.73 Incl: 89.47
TVD: 6729.21
Azim: 178.32 Incl: 89.86
TVD: 6729.73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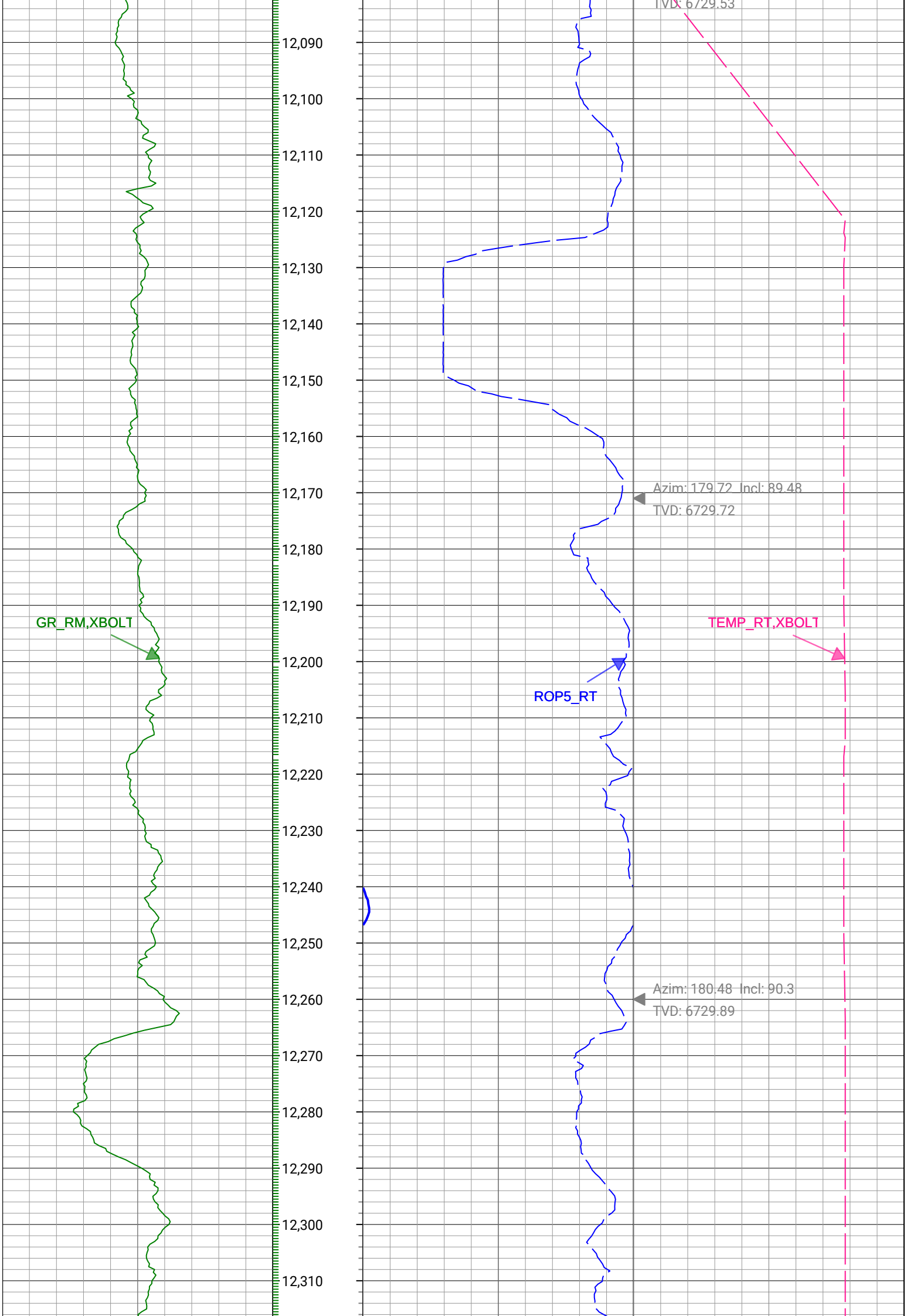
12,020
12,030
12,040
12,050
12,060
12,070
12,080
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 178.82 Incl: 89.89
TVD: 6729.93
Azim: 178.78 Incl: 90.18
TVD: 6729.88
Azim: 176.33 Incl: 90.27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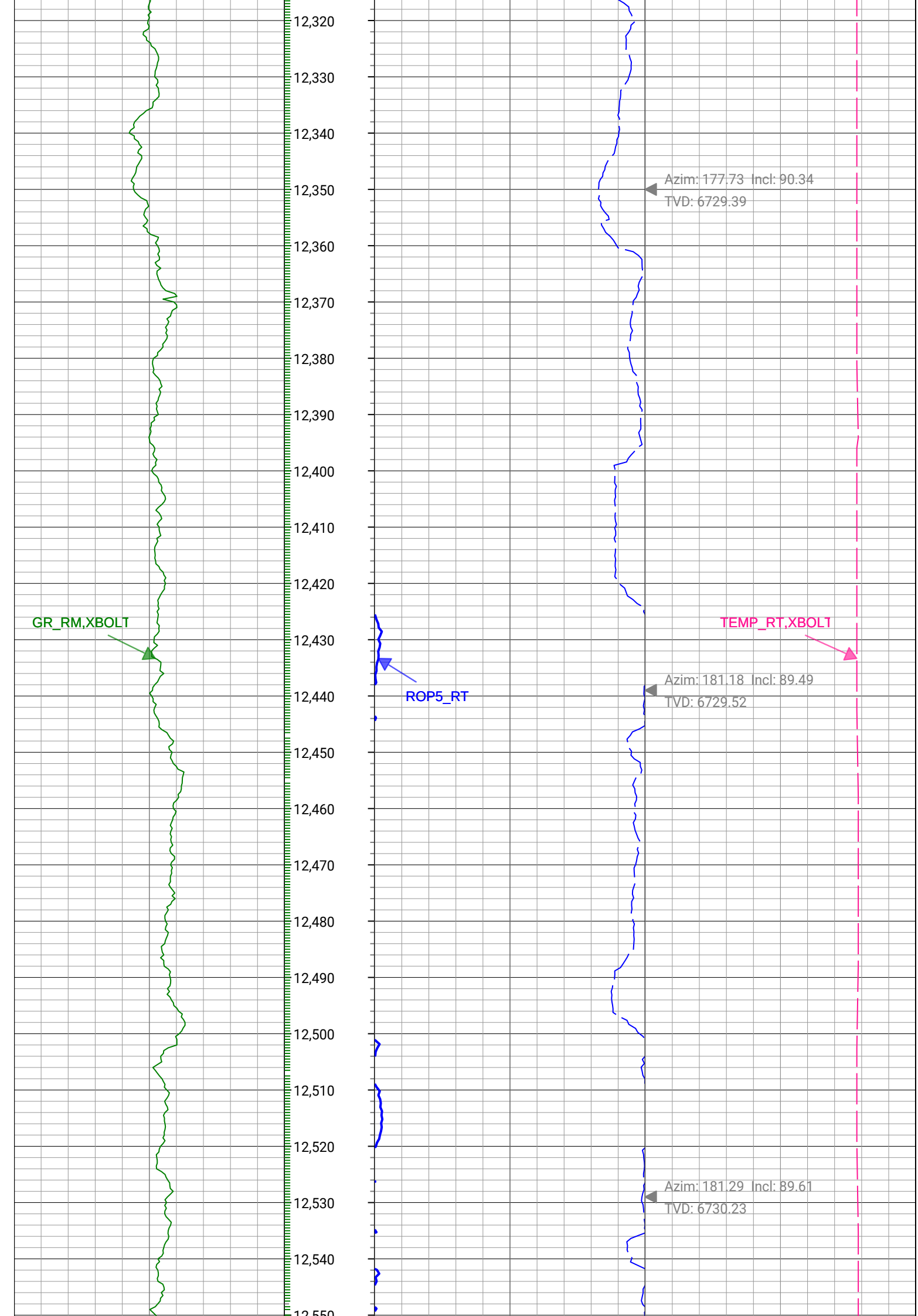
12,280
12,290
12,300
12,310
Azim: 179.72 Incl: 89.48
TVD: 6729.72
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT
Azim: 180.48 Incl: 90.3
TVD: 6729.89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12,480
12,490
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12,540
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 177.73 Incl: 90.34
TVD: 6729.39
Azim: 181.18 Incl: 89.49
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Azim: 181.29 Incl: 89.61
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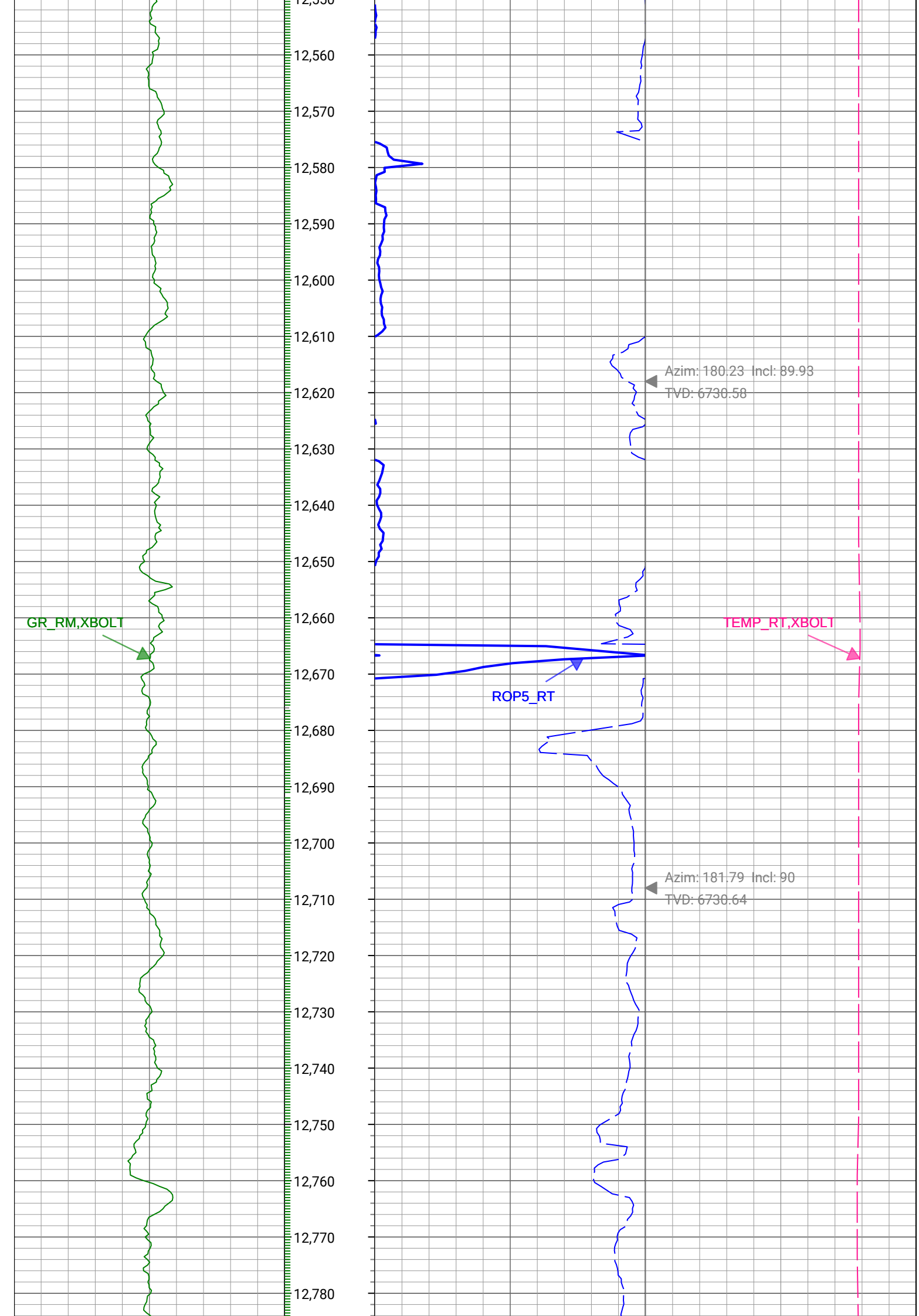
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12,680
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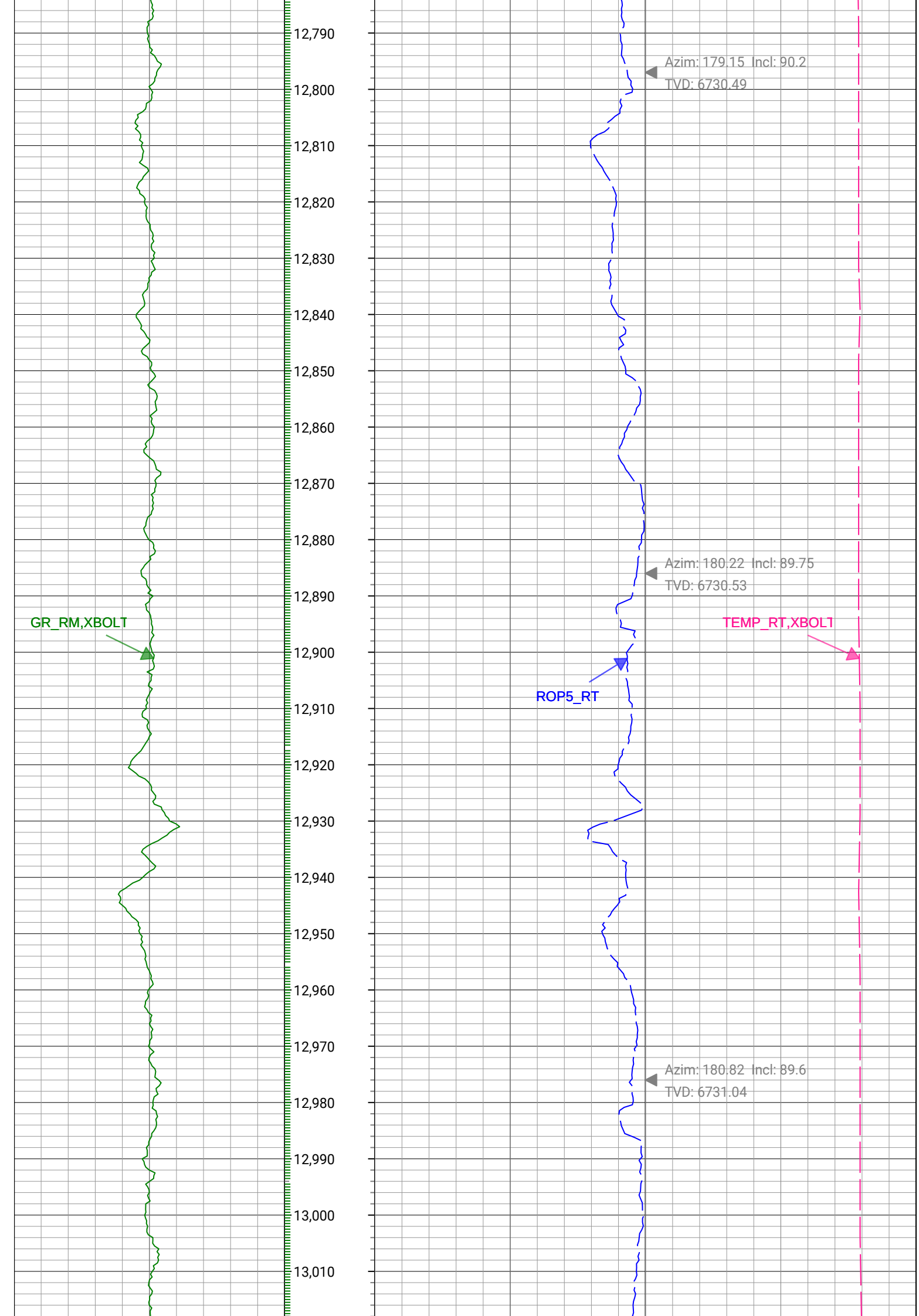
12,700
12,710
12,720
12,730
12,740
12,750
12,760
12,770
12,780
Azim: 180.23 Incl: 89.93
TVD: 6730.58
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT
Azim: 181.79 Incl: 90
TVD: 6730.64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12,950
12,960
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12,980
12,990
13,000
13,010
Azim: 179.15 Incl: 90.2
TVD: 6730.49
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TVD: 6730.53
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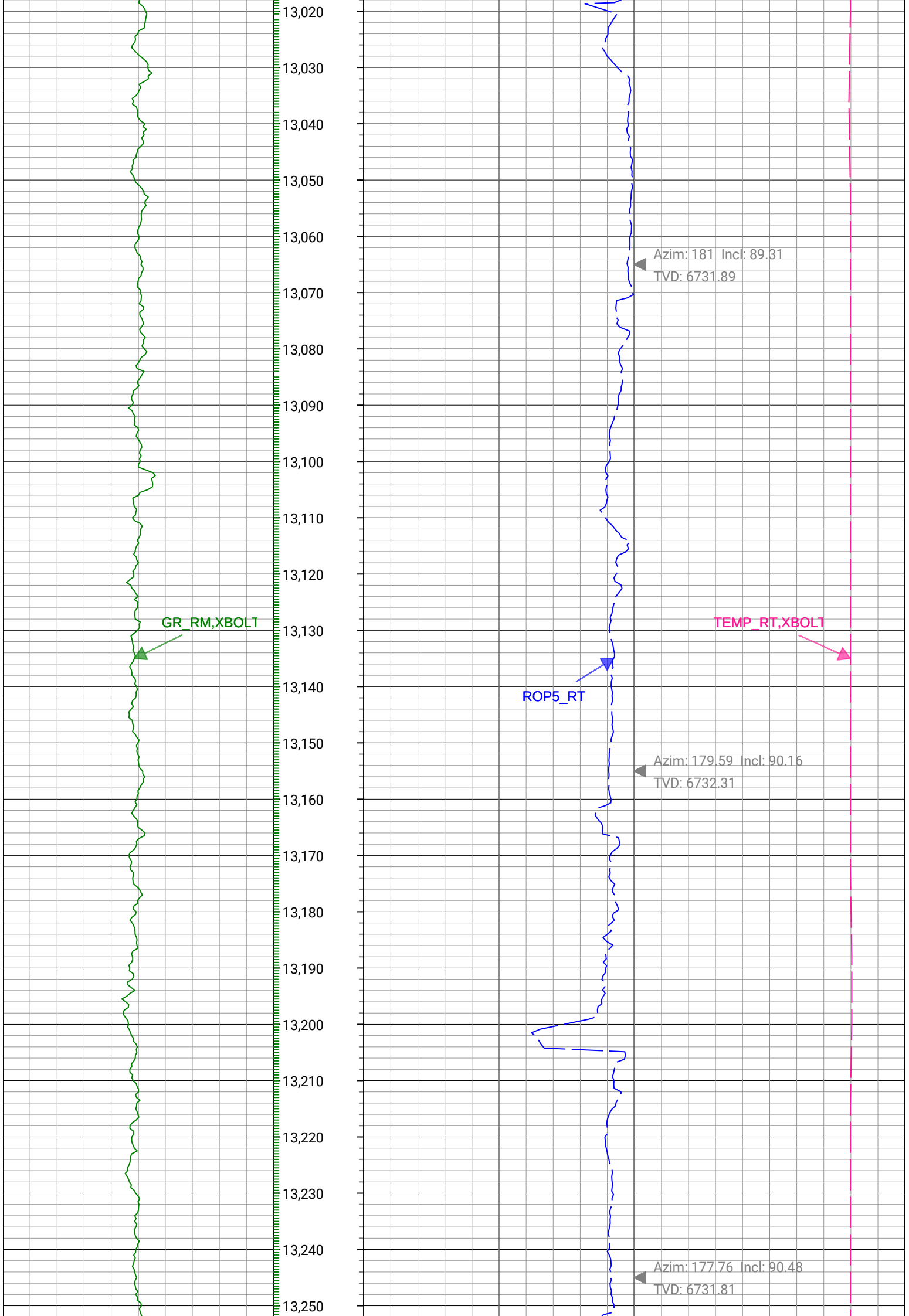
TVD: 6731.04
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT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13,240
13,250
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT
Azim: 181 Incl: 89.31
TVD: 6731.89
Azim: 179.59 Incl: 90.16
TVD: 6732.31
Azim: 177.76 Incl: 90.48
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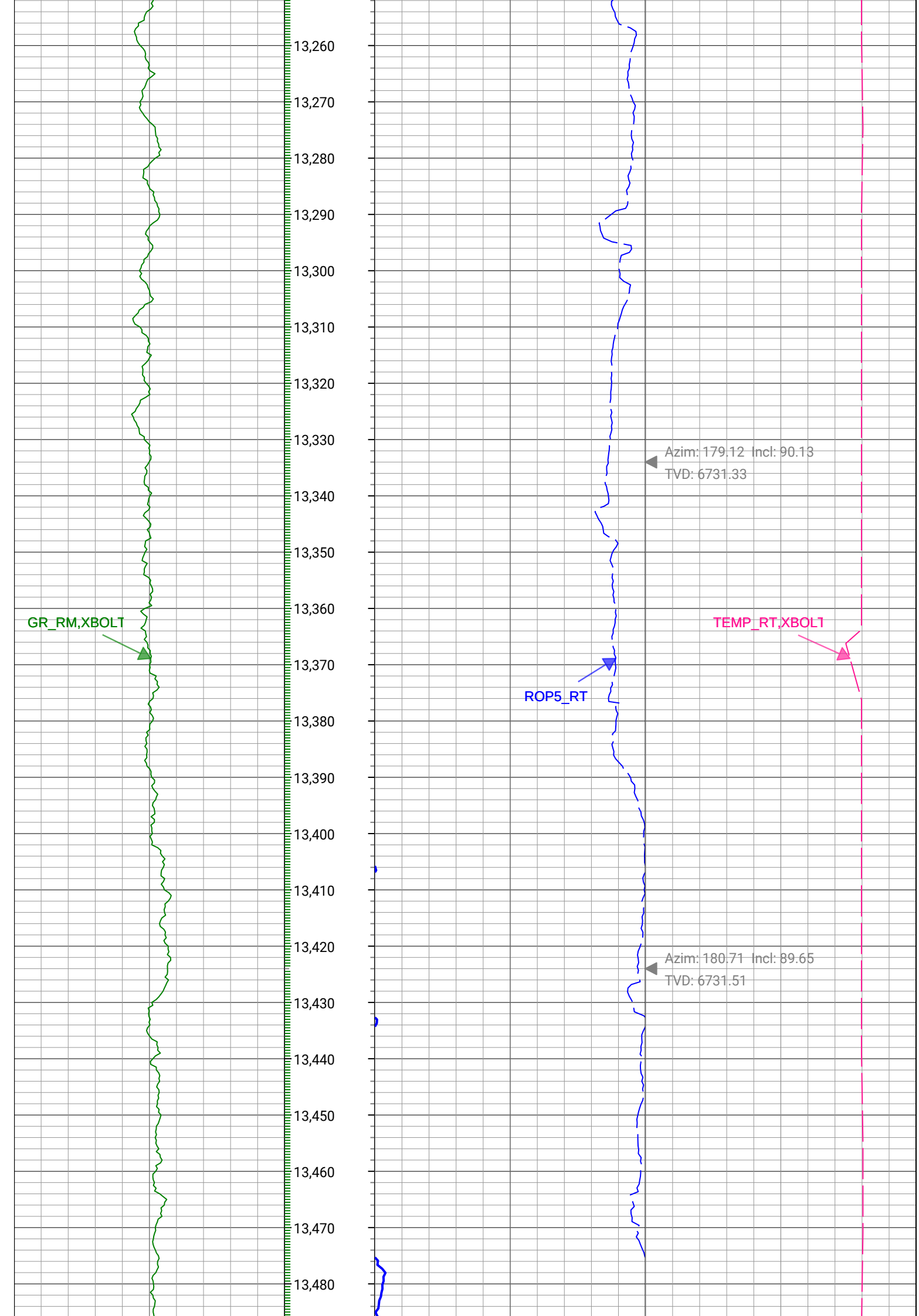
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GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 179.12 Incl: 90.13
TVD: 6731.33
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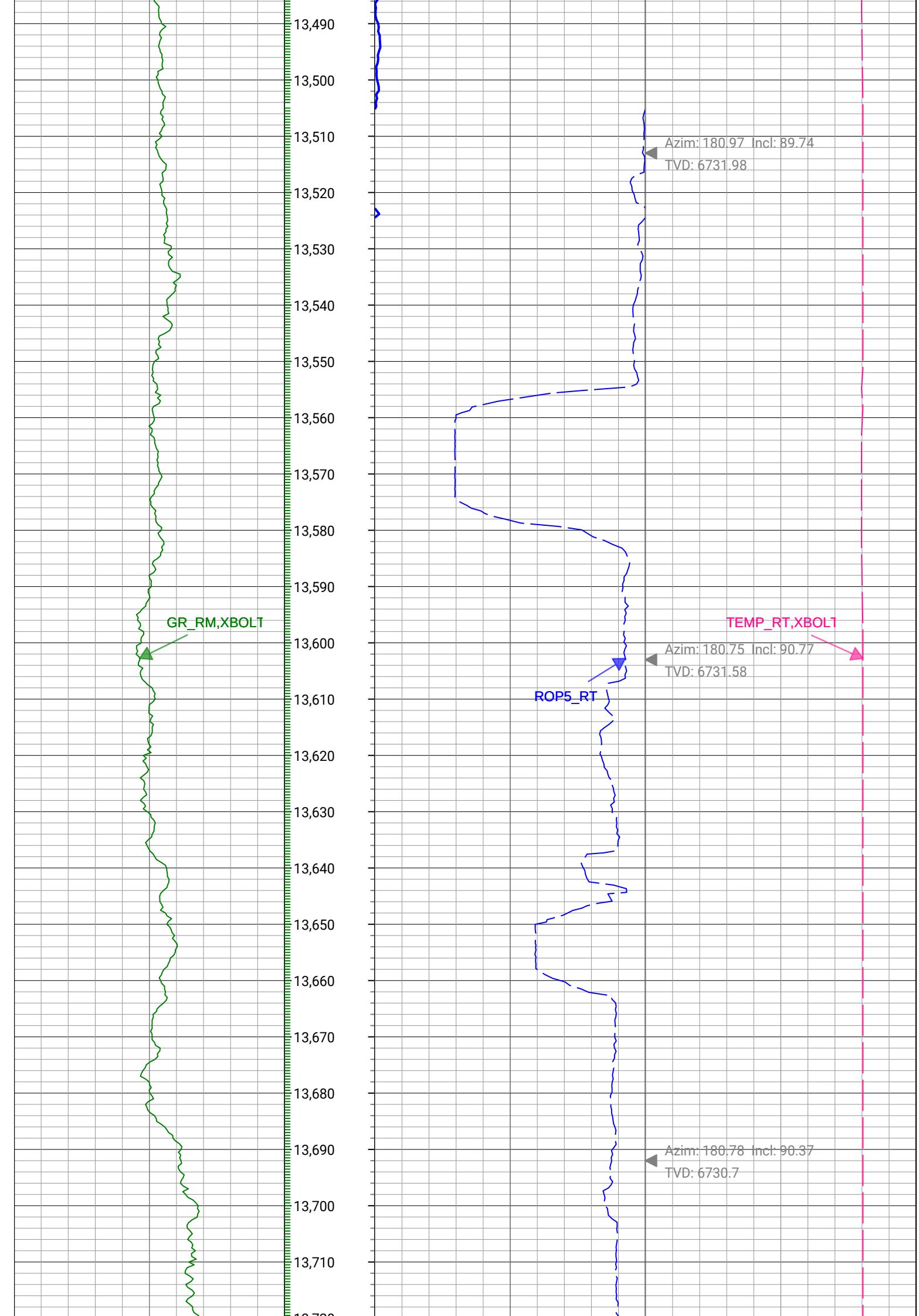
TVD: 6731.51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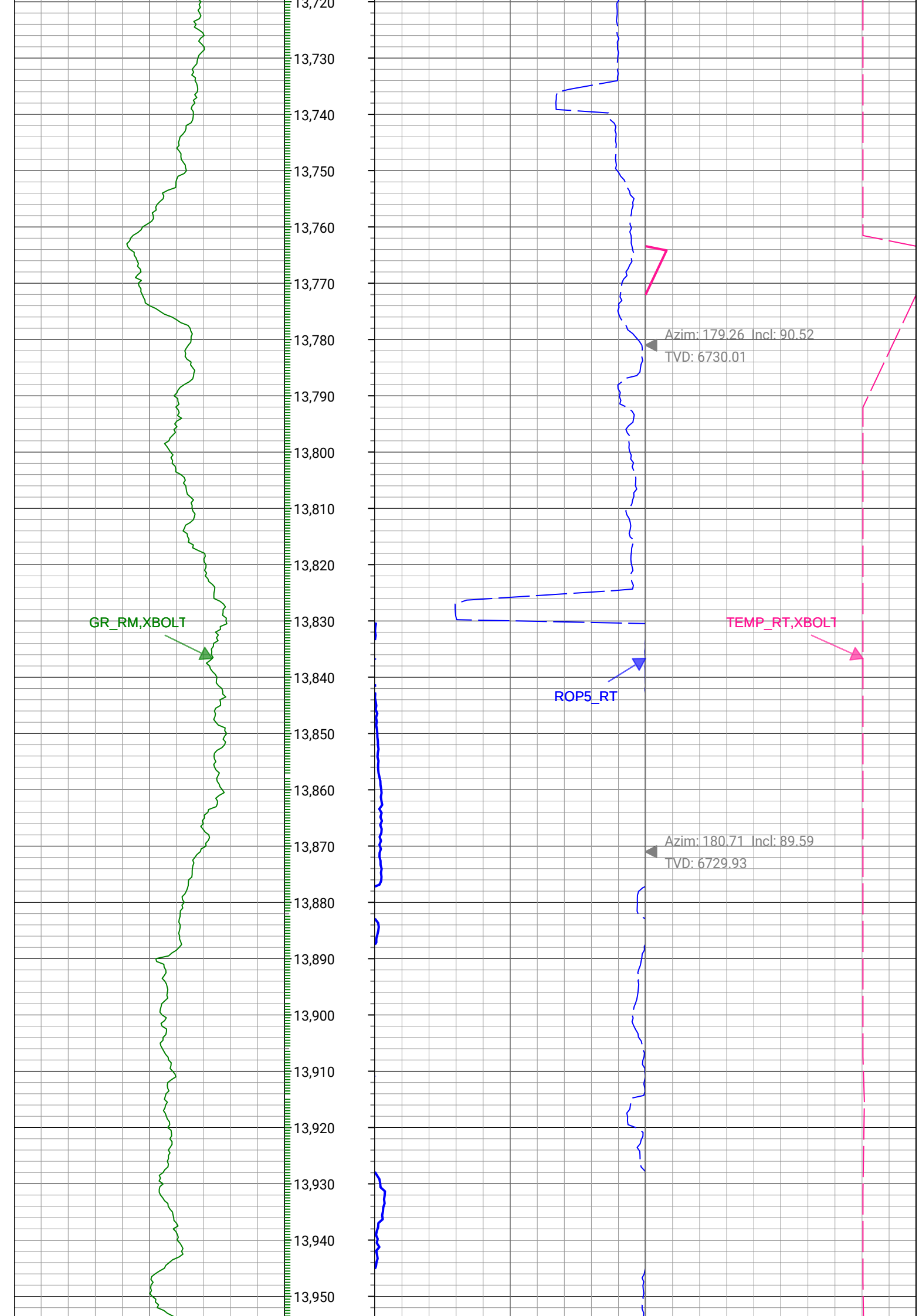
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT
Azim: 180.97 Incl: 89.74
TVD: 6731.98
Azim: 180.75 Incl: 90.77
TVD: 6731.58
Azim: 180.78 Incl: 90.37
TVD: 6730.7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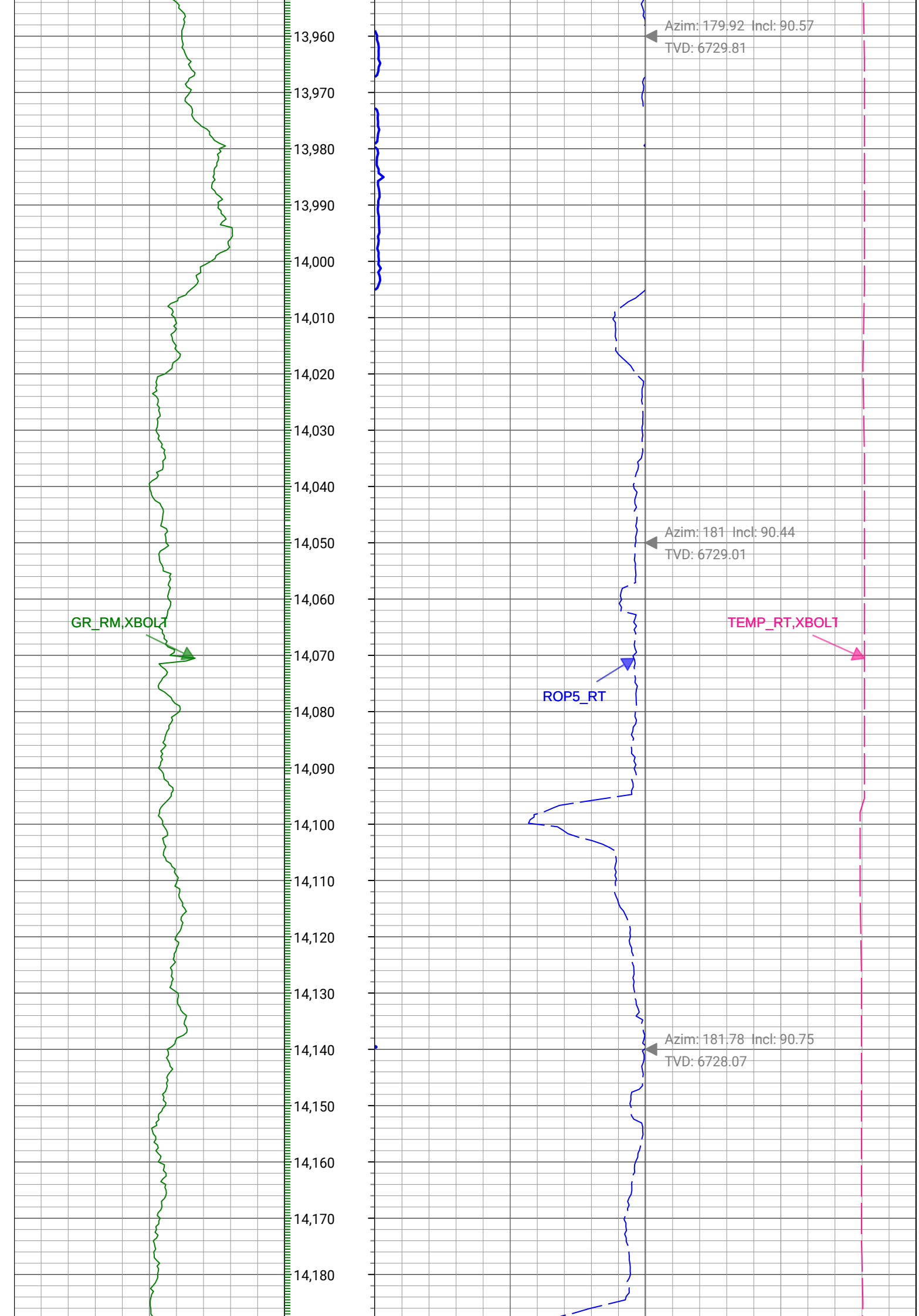
GR_RM,XBOLT
Azim: 179.26 Incl: 90.52
TVD: 6730.01
TEMP_RT,XBOLT
ROP5_RT
Azim: 180.71 Incl: 89.59
TVD: 6729.93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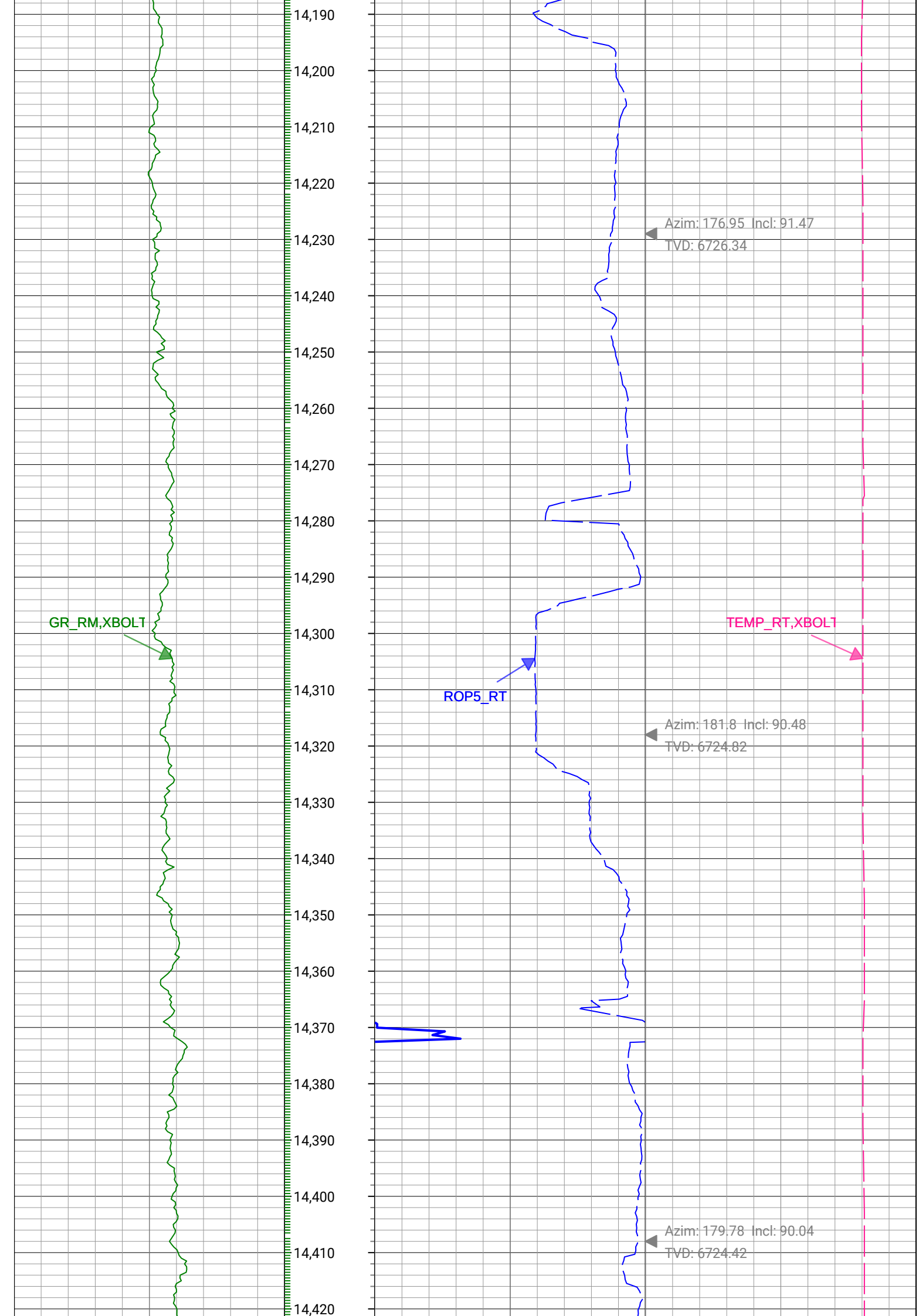
Azim: 179.92 Incl: 90.57
TVD: 6729.81
Azim: 181 Incl: 90.44
TVD: 6729.01
Azim: 181.78 Incl: 90.75
TVD: 6728.07
GR_RM,XBOLT
TEMP_RT,XBOLT
ROP5_RT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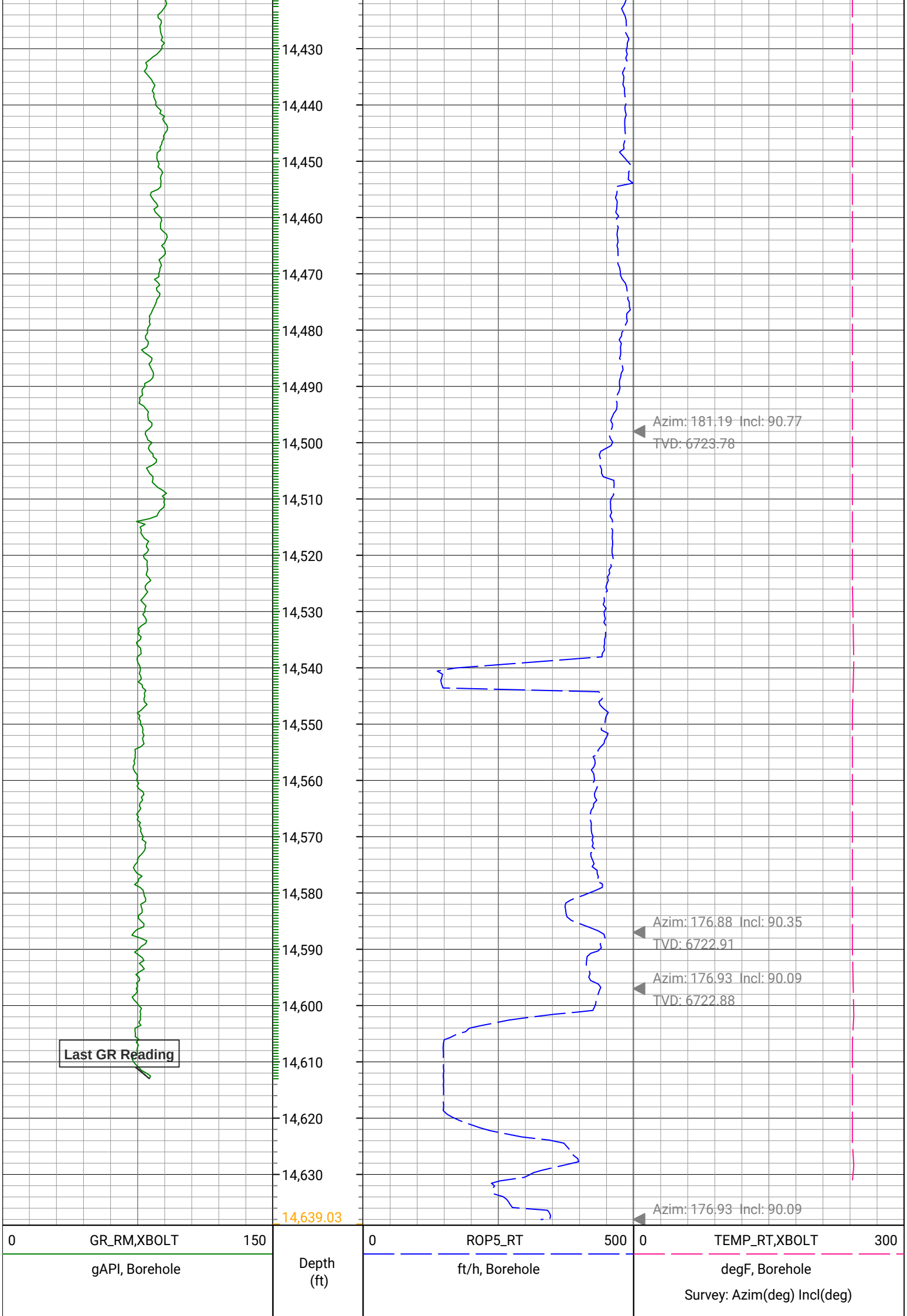
14,370
14,380
14,390
14,400
14,410
14,420
GR_RM,XBOLT
ROP5_RT
TEMP_RT,XBOLT
Azim: 176.95 Incl: 91.47
TVD: 6726.34
Azim: 181.8 Incl: 90.48
TVD: 6724.82
Azim: 179.78 Incl: 90.04
TVD: 6724.42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14,600
14,610
14,620
14,630
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Azim: 181.19 Incl: 90.77
TVD: 6723.78
Azim: 176.88 Incl: 90.35
TVD: 6722.91
Azim: 176.93 Incl: 90.09
TVD: 6722.88
Azim: 176.93 Incl: 90.09
Last GR Reading
0
GR_RM,XBOLT
150
gAPI, Borehole
Depth
(ft)
0
ROP5_RT
500
ft/h, Borehole
0
TEMP_RT,XBOLT
300
degF, Borehole
Survey: Azim(deg) Incl(deg)

Description: XBOLT GAMMA RAY | Format: XBOLT_GR_DNI_VERDAD | Index Scale: 5in/100ft | Index Unit: ft | Index Type: Measured Depth

Creation Date: 04-Aug-2021

Survey Record

Survey Calculation

North Reference: True North

Tie In Point

Measured Depth:	0(ft)	Inclination:	0(deg)	Azimuth:	0(deg)
True Vertical Depth:	0(ft)	North Displacement:	0(ft)	East Displacement:	0(ft)

D&I Inits - Run - 1

Geomagnetic Model:	HDGM 2021	Geomagnetic Date:	29-Jul-2021 23:00:00
Location B:	51854.529(nT)	Location G:	999.019(mgn)
Magnetic Dip:	66.472(deg)	Magnetic Dec:	8.009(deg)
Total Correction:	8.009		

MD(ft)	Incl(deg)	Azim(deg)	TVD(ft)	V Sec(ft)	N/-S(ft)	E/-W(ft)	DLS (deg/100ft)	Closure Distance (ft)	Closure Azimuth (deg)	Tool Type
0	0	0	0	0.00	0	0	0.00			TIP
21	0	0	21	0	0	0	0	0	0	MWD
129	0.32	312.19	129	-0.13	0.2	-0.22	0.3	0.3	312.19	MWD
217	0.49	17.36	217	-0.61	0.73	-0.29	0.52	0.78	338.02	MWD
299	1.45	327.42	298.99	-1.63	1.94	-0.75	1.46	2.07	338.89	MWD
388	2.83	309.75	387.92	-3.19	4.29	-3.04	1.7	5.26	324.65	MWD
478	4.82	310.35	477.72	-5.53	8.16	-7.63	2.21	11.17	316.91	MWD
568	6.9	305.67	567.24	-8.72	13.76	-14.91	2.37	20.29	312.71	MWD
658	9.13	301.43	656.36	-12.17	20.64	-25.39	2.56	32.72	309.1	MWD
748	11.63	300.78	744.88	-16.04	29	-39.28	2.78	48.83	306.44	MWD
838	13.55	298.68	832.71	-20.25	38.71	-56.33	2.19	68.34	304.5	MWD
928	15.01	297.3	919.93	-24.37	49.11	-75.93	1.67	90.43	302.89	MWD
1018	17.28	299.8	1006.37	-29.31	61.1	-97.89	2.64	115.4	301.97	MWD
1108	19.57	299.47	1091.76	-35.4	75.16	-122.62	2.55	143.82	301.51	MWD
1198	21.49	299.2	1176.04	-42	90.62	-150.13	2.14	175.36	301.12	MWD
1288	22.1	299.04	1259.6	-48.86	106.88	-179.33	0.68	208.76	300.8	MWD
1378	22.08	299.91	1343	-56.02	123.54	-208.79	0.36	242.6	300.61	MWD
1468	21.96	300.53	1426.43	-63.59	140.52	-237.95	0.29	276.34	300.56	MWD
1558	21.62	300.73	1510	-71.32	157.54	-266.7	0.39	309.75	300.57	MWD
1648	21.49	300.22	1593.71	-78.87	174.31	-295.19	0.25	342.82	300.56	MWD
1738	21.57	299.96	1677.43	-86.21	190.87	-323.77	0.14	375.84	300.52	MWD
1773	21.27	299.16	1710.01	-88.93	197.18	-334.89	1.2	388.62	300.49	MWD
1881	21.43	299.68	1810.6	-97.22	216.49	-369.13	0.23	427.93	300.39	MWD
1970	20.99	299.98	1893.57	-104.22	232.5	-397.06	0.5	460.13	300.35	MWD
2060	20.99	299.89	1977.6	-111.3	248.59	-425	0.03	492.37	300.32	MWD
2149	21.13	301.22	2060.65	-118.65	264.85	-452.54	0.56	524.35	300.34	MWD
2239	21.2	302.37	2144.58	-126.81	281.97	-480.16	0.47	556.83	300.42	MWD
2328	21.58	300.16	2227.45	-134.66	298.81	-507.9	1	589.28	300.47	MWD
2418	20.13	301.9	2311.55	-142.27	315.32	-535.37	1.76	621.32	300.5	MWD
2507	21.15	301.31	2394.84	-150.04	331.75	-562.09	1.17	652.69	300.55	MWD
2597	20.97	299.62	2478.83	-157.43	348.15	-589.96	0.7	685.03	300.55	MWD
2686	21.45	300.2	2561.8	-164.48	364.21	-617.87	0.58	717.22	300.52	MWD
2775	21.41	301.94	2644.65	-172.24	380.99	-645.72	0.72	749.74	300.54	MWD

2865	21.93	301.95	2728.28	-180.67	398.58	-673.92	0.57	782.96	300.6	MWD
2954	21.24	301.64	2811.04	-188.89	415.83	-701.75	0.79	815.7	300.65	MWD
3043	22.28	299.33	2893.7	-196.42	432.55	-730.18	1.51	848.68	300.64	MWD
3133	22.46	300.93	2976.93	-204.05	449.75	-759.8	0.71	882.93	300.62	MWD
3222	22.23	301.71	3059.24	-212.27	467.33	-788.71	0.43	916.77	300.65	MWD
3311	22.32	300.52	3141.61	-220.35	484.76	-817.59	0.52	950.5	300.66	MWD
3401	22.29	300.03	3224.87	-228.04	501.98	-847.09	0.21	984.65	300.65	MWD
3490	22.02	301.37	3307.3	-235.84	519.12	-875.95	0.64	1018.22	300.65	MWD
3580	22.44	300.52	3390.61	-243.9	536.63	-905.15	0.58	1052.27	300.66	MWD
3669	22.17	300.99	3472.95	-251.78	553.9	-934.18	0.36	1086.05	300.66	MWD
3759	22.15	299.63	3556.3	-259.45	571.03	-963.48	0.57	1119.99	300.65	MWD
3849	21.91	300.49	3639.73	-266.92	587.94	-992.7	0.45	1153.74	300.64	MWD
3938	22.35	300.59	3722.18	-274.63	604.98	-1021.57	0.5	1187.27	300.63	MWD
4028	22.86	301.21	3805.26	-282.78	622.74	-1051.25	0.62	1221.86	300.64	MWD
4117	22.26	300.96	3887.45	-290.94	640.37	-1080.5	0.68	1256	300.65	MWD
4206	22.17	300.93	3969.85	-298.9	657.67	-1109.36	0.1	1289.66	300.66	MWD
4296	20.95	301.02	4053.55	-306.74	674.69	-1137.72	1.36	1322.73	300.67	MWD
4386	22.15	300.62	4137.26	-314.49	691.63	-1166.11	1.35	1355.78	300.67	MWD
4475	22.04	299.12	4219.72	-321.8	708.3	-1195.14	0.65	1389.26	300.65	MWD
4565	22.33	300.18	4303.05	-329.09	725.12	-1224.67	0.55	1423.24	300.63	MWD
4654	22.46	301.07	4385.34	-336.93	742.39	-1253.85	0.4	1457.15	300.63	MWD
4744	22.11	300.19	4468.62	-344.83	759.78	-1283.22	0.54	1491.28	300.63	MWD
4833	21.15	299.74	4551.35	-352.05	776.17	-1311.64	1.1	1524.08	300.62	MWD
4923	21.53	301.51	4635.18	-359.62	792.86	-1339.81	0.83	1556.83	300.62	MWD
5012	22.16	300.66	4717.79	-367.53	809.96	-1368.18	0.79	1589.95	300.63	MWD
5102	21.39	300.17	4801.37	-375.13	826.86	-1396.97	0.88	1623.33	300.62	MWD
5192	21.73	296.33	4885.07	-381.43	842.5	-1426.09	1.61	1656.36	300.57	MWD
5281	22.35	300.58	4967.57	-387.92	858.41	-1455.43	1.92	1689.72	300.53	MWD
5370	22.21	300.71	5049.93	-395.73	875.61	-1484.46	0.17	1723.46	300.53	MWD
5460	22.2	301.33	5133.25	-403.82	893.14	-1513.61	0.26	1757.48	300.54	MWD
5549	21.32	300.26	5215.91	-411.55	910.04	-1541.95	1.08	1790.47	300.55	MWD
5638	21.97	301.32	5298.63	-419.23	926.84	-1570.15	0.85	1823.3	300.55	MWD
5728	22.04	300.58	5382.08	-427.21	944.19	-1599.07	0.32	1857.02	300.56	MWD
5817	21.86	300.5	5464.62	-434.85	961.1	-1627.73	0.21	1890.29	300.56	MWD
5907	21.7	299.43	5548.2	-442.2	977.77	-1656.66	0.48	1923.68	300.55	MWD
5996	21.63	300.43	5630.91	-449.4	994.17	-1685.14	0.42	1956.54	300.54	MWD
6085	22.18	300.62	5713.48	-457.02	1011.03	-1713.74	0.62	1989.75	300.54	MWD
6175	22.15	300.45	5796.83	-464.82	1028.28	-1742.98	0.08	2023.7	300.54	MWD
6265	21.87	301.4	5880.28	-472.78	1045.61	-1771.91	0.5	2057.42	300.54	MWD
6354	19.07	289.02	5963.69	-477.28	1059	-1799.83	5.78	2088.27	300.47	MWD
6443	17.16	254.76	6048.51	-470.65	1060.29	-1826.32	11.99	2111.79	300.14	MWD
6533	20.79	227.17	6133.77	-449.63	1045.9	-1850.91	10.63	2125.97	299.47	MWD
6622	25.14	213.15	6215.76	-417.71	1019.3	-1872.86	7.83	2132.27	298.56	MWD
6712	31.91	208.84	6294.79	-375.96	982.41	-1894.82	7.86	2134.35	297.41	MWD
6801	36.66	205.99	6368.31	-326.63	937.89	-1917.82	5.63	2134.87	296.06	MWD
6890	43.07	205.26	6436.59	-270.22	886.48	-1942.46	7.22	2135.18	294.53	MWD
6980	47.01	202.6	6500.18	-206.98	828.27	-1968.23	4.86	2135.41	292.82	MWD
7069	53.76	202.5	6556.9	-138.75	764.99	-1994.51	7.58	2136.18	290.98	MWD
7159	60.88	202.54	6605.46	-63.36	695.06	-2023.51	7.91	2139.56	288.96	MWD
7248	64.64	195.57	6646.23	15.65	620.32	-2049.24	8.14	2141.07	286.84	MWD

7339	67.82	186.27	6682.97	98.28	538.66	-2064.91	9.99	2134.01	284.62	MWD
7429	75.43	181.77	6711.33	181.31	453.54	-2070.81	9.7	2119.9	282.35	MWD
7519	82.07	180.49	6728.88	266.05	365.34	-2072.54	7.51	2104.49	280	MWD
7606	87.88	177.83	6736.49	348.39	278.72	-2071.26	7.34	2089.93	277.66	MWD
7695	87.71	177.38	6739.92	432.14	189.87	-2067.55	0.55	2076.25	275.25	MWD
7785	89.98	178.78	6741.73	517.12	99.95	-2064.53	2.96	2066.95	272.77	MWD
7874	89.83	180.65	6741.88	601.97	10.95	-2064.09	2.11	2064.12	270.3	MWD
7964	90.48	179.81	6741.63	688.03	-79.05	-2064.45	1.19	2065.97	267.81	MWD
8054	90.35	175.23	6740.98	772.71	-168.94	-2060.56	5.09	2067.47	265.31	MWD
8143	90.67	179.29	6740.18	856.32	-257.81	-2056.3	4.58	2072.4	262.85	MWD
8233	90.36	180.56	6739.37	942.23	-347.81	-2056.18	1.46	2085.39	260.4	MWD
8322	90.48	180.47	6738.72	1027.45	-436.8	-2056.98	0.16	2102.85	258.01	MWD
8411	90.24	180.35	6738.16	1112.63	-525.8	-2057.62	0.3	2123.74	255.67	MWD
8501	89.67	181.18	6738.23	1198.93	-615.79	-2058.82	1.11	2148.94	253.35	MWD
8590	89.57	180.65	6738.82	1284.33	-704.77	-2060.24	0.6	2177.45	251.12	MWD
8680	89.78	179.97	6739.32	1370.42	-794.77	-2060.73	0.79	2208.68	248.91	MWD
8770	89.69	179.69	6739.74	1456.28	-884.77	-2060.46	0.33	2242.39	246.76	MWD
8859	89.41	180.22	6740.44	1541.25	-973.76	-2060.39	0.67	2278.91	244.7	MWD
8949	89.38	180.86	6741.39	1627.44	-1063.76	-2061.24	0.71	2319.54	242.7	MWD
9038	89.75	180.6	6742.06	1712.76	-1152.75	-2062.37	0.5	2362.67	240.8	MWD
9128	89.94	180.42	6742.3	1798.94	-1242.74	-2063.17	0.29	2408.54	238.94	MWD
9217	90.25	181.89	6742.15	1884.44	-1331.72	-2064.96	1.69	2457.14	237.18	MWD
9307	89.71	179.67	6742.19	1970.74	-1421.71	-2066.18	2.54	2508.06	235.47	MWD
9396	89.75	184.56	6742.61	2056.62	-1510.62	-2069.47	5.5	2562.16	233.87	MWD
9486	90.56	174.79	6742.37	2142.31	-1600.51	-2068.96	10.9	2615.76	232.28	MWD
9575	90.42	177.91	6741.61	2225.43	-1689.31	-2063.29	3.52	2666.63	230.69	MWD
9665	90.33	182.55	6741.02	2311.46	-1779.28	-2063.65	5.15	2724.79	229.23	MWD
9754	90.26	182.35	6740.56	2397.5	-1868.2	-2067.46	0.23	2786.5	227.9	MWD
9844	89.97	179.98	6740.39	2483.97	-1958.18	-2069.29	2.66	2848.93	226.58	MWD
9934	90.6	180.38	6739.94	2570	-2048.17	-2069.57	0.83	2911.73	225.3	MWD
10023	90.9	184.73	6738.77	2656.06	-2137.06	-2073.54	4.9	2977.68	224.14	MWD
10113	90.66	184.58	6737.54	2743.88	-2226.75	-2080.85	0.32	3047.68	223.06	MWD
10202	90.17	179.21	6736.9	2829.66	-2315.67	-2083.79	6.07	3115.2	221.98	MWD
10292	90.39	182.28	6736.47	2915.94	-2405.65	-2084.95	3.42	3183.42	220.92	MWD
10381	90.37	181.94	6735.87	3001.84	-2494.58	-2088.23	0.38	3253.25	219.93	MWD
10471	90.44	180.65	6735.24	3088.37	-2584.56	-2090.27	1.44	3324.03	218.96	MWD
10560	90.72	185.13	6734.34	3174.56	-2673.42	-2094.75	5.04	3396.34	218.08	MWD
10650	90.2	180.32	6733.61	3261.65	-2763.29	-2099.02	5.38	3470.11	217.22	MWD
10739	90.31	179.43	6733.22	3346.58	-2852.28	-2098.83	1	3541.27	216.35	MWD
10828	90.56	176.63	6732.55	3430.6	-2941.22	-2095.77	3.16	3611.51	215.47	MWD
10918	90.15	179.14	6732	3515.5	-3031.15	-2092.44	2.82	3683.23	214.62	MWD
11007	90.42	176.85	6731.56	3599.51	-3120.09	-2089.33	2.59	3755.03	213.81	MWD
11097	90.52	177.31	6730.82	3683.98	-3209.97	-2084.74	0.52	3827.54	213	MWD
11187	90.22	177.4	6730.24	3768.6	-3299.87	-2080.59	0.35	3901.02	212.23	MWD
11276	90.97	177.04	6729.32	3852.21	-3388.76	-2076.28	0.93	3974.24	211.5	MWD
11366	90.02	177.99	6728.54	3936.91	-3478.67	-2072.38	1.49	4049.18	210.78	MWD
11455	89.76	177.55	6728.72	4020.81	-3567.6	-2068.92	0.57	4124.1	210.11	MWD
11545	89.76	179.19	6729.1	4105.96	-3657.56	-2066.36	1.82	4200.9	209.46	MWD
11634	90.32	178.03	6729.04	4190.29	-3746.53	-2064.2	1.44	4277.55	208.85	MWD

11724	89.47	178.73	6729.21	4275.44	-3836.5	-2061.66	1.22	4355.36	208.25	MWD
11813	89.86	178.32	6729.73	4359.73	-3925.46	-2059.37	0.63	4432.86	207.68	MWD
11903	89.89	178.82	6729.93	4444.98	-4015.44	-2057.12	0.55	4511.71	207.13	MWD
11992	90.18	178.78	6729.88	4529.4	-4104.42	-2055.26	0.33	4590.24	206.6	MWD
12081	90.27	176.33	6729.53	4613.18	-4193.33	-2051.47	2.75	4668.25	206.07	MWD
12171	89.48	179.72	6729.72	4698.15	-4283.26	-2048.37	3.86	4747.86	205.56	MWD
12260	90.3	180.48	6729.89	4783.18	-4372.26	-2048.52	1.26	4828.36	205.1	MWD
12350	90.34	177.73	6729.39	4868.69	-4462.24	-2047.12	3.05	4909.41	204.64	MWD
12439	89.49	181.18	6729.52	4953.42	-4551.22	-2046.27	3.99	4990.07	204.21	MWD
12529	89.61	181.29	6730.23	5039.91	-4641.2	-2048.21	0.18	5073.05	203.81	MWD
12618	89.93	180.23	6730.58	5125.25	-4730.19	-2049.39	1.25	5155.06	203.43	MWD
12708	90	181.79	6730.64	5211.65	-4820.17	-2050.98	1.73	5238.37	203.05	MWD
12797	90.2	179.15	6730.49	5296.85	-4909.16	-2051.71	2.97	5320.65	202.68	MWD
12886	89.75	180.22	6730.53	5381.69	-4998.16	-2051.22	1.3	5402.69	202.31	MWD
12976	89.6	180.82	6731.04	5467.88	-5088.15	-2052.04	0.69	5486.36	201.96	MWD
13065	89.31	181	6731.89	5553.28	-5177.13	-2053.46	0.39	5569.51	201.64	MWD
13155	90.16	179.59	6732.31	5639.36	-5267.13	-2053.93	1.83	5653.43	201.3	MWD
13245	90.48	177.76	6731.81	5724.66	-5357.1	-2051.85	2.07	5736.6	200.96	MWD
13334	90.13	179.12	6731.33	5808.9	-5446.06	-2049.43	1.58	5818.91	200.62	MWD
13424	89.65	180.71	6731.51	5894.81	-5536.06	-2049.3	1.85	5903.18	200.31	MWD
13513	89.74	180.97	6731.98	5980.18	-5625.05	-2050.61	0.31	5987.17	200.03	MWD
13603	90.77	180.75	6731.58	6066.51	-5715.04	-2051.97	1.18	6072.25	199.75	MWD
13692	90.37	180.78	6730.7	6151.85	-5804.02	-2053.15	0.46	6156.47	199.48	MWD
13781	90.52	179.26	6730.01	6236.84	-5893.02	-2053.19	1.71	6240.45	199.21	MWD
13871	89.59	180.71	6729.93	6322.78	-5983.02	-2053.17	1.92	6325.5	198.94	MWD
13960	90.57	179.92	6729.81	6407.92	-6072.01	-2053.66	1.42	6409.9	198.69	MWD
14050	90.44	181	6729.01	6494.07	-6162	-2054.39	1.2	6495.45	198.44	MWD
14140	90.75	181.78	6728.07	6580.64	-6251.97	-2056.57	0.93	6581.54	198.21	MWD
14229	91.47	176.95	6726.34	6665.29	-6340.92	-2055.58	5.49	6665.79	197.96	MWD
14318	90.48	181.8	6724.82	6749.95	-6429.88	-2054.61	5.56	6750.17	197.72	MWD
14408	90.04	179.78	6724.42	6836.25	-6519.86	-2055.85	2.3	6836.31	197.5	MWD
14498	90.77	181.19	6723.78	6922.41	-6609.85	-2056.61	1.77	6922.41	197.28	MWD
14587	90.35	176.88	6722.91	7006.92	-6698.82	-2055.1	4.87	7006.97	197.06	MWD
14597	90.09	176.93	6722.88	7016.3	-6708.8	-2054.56	2.66	7016.36	197.03	MWD
14638	90.09	176.93	6722.81	7054.74	-6749.74	-2052.37	0	7054.87	196.91	Manual

Company:	Verdad Resources LLC
Well:	KBL 1930 09H
Field Name:	Wattenberg
Country Name:	United States
State Name:	Colorado
County Name:	Weld

Schlumberger

XBOLT GAMMA RAY
5in/100ft Measured Depth
Final Print
Recorded Mode