



Noble Energy Inc

RM-13585

1":100' - MD

8/5/2013 6:36:06 PM

Oper. Company: DDC
Country: United States
State / Province: Colorado
County / Parish: Weld County
Started: 07/28/2013 11:00 PM

API/UWI: 05-123-37465
Field: Wildcat
Well: Rohn State LD04-68HN
Rig: H&P #326
Ended: 08/05/2013 05:00 PM

Personnel

Day Hand: CHRIS ABBOTT
Night Hand: SCOTT SIMS
Comp. Emp: JOHN DRAHOTA

Location

Latitude: 40.78613 N
Longitude: -103.87778 W
Elev. GL: 4747
Elev. DF: 30
Elev. KB: 4777

Rohn State LD04-68HN FINAL 1" MD

Hole Data

Size	From	To
13 3/4	0	664
8 3/4	664	6132
6 1/8	6132	14739

Casing Data

Size	From	To
9 5/8	0	654
7	654	6122

Bit Sizes

Size	From	To
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Mud Data

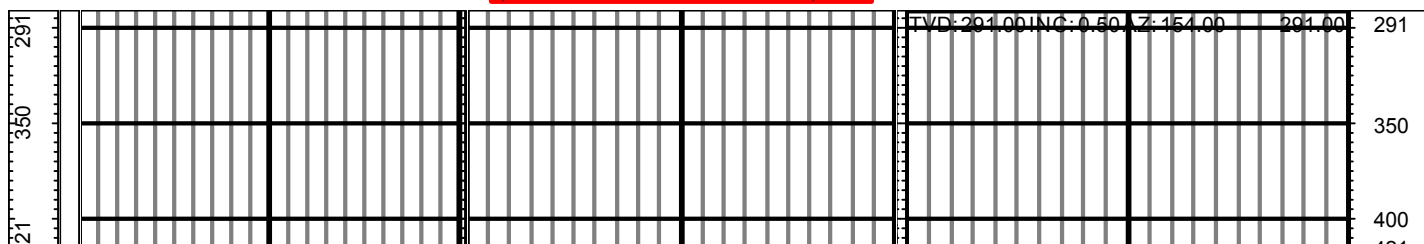
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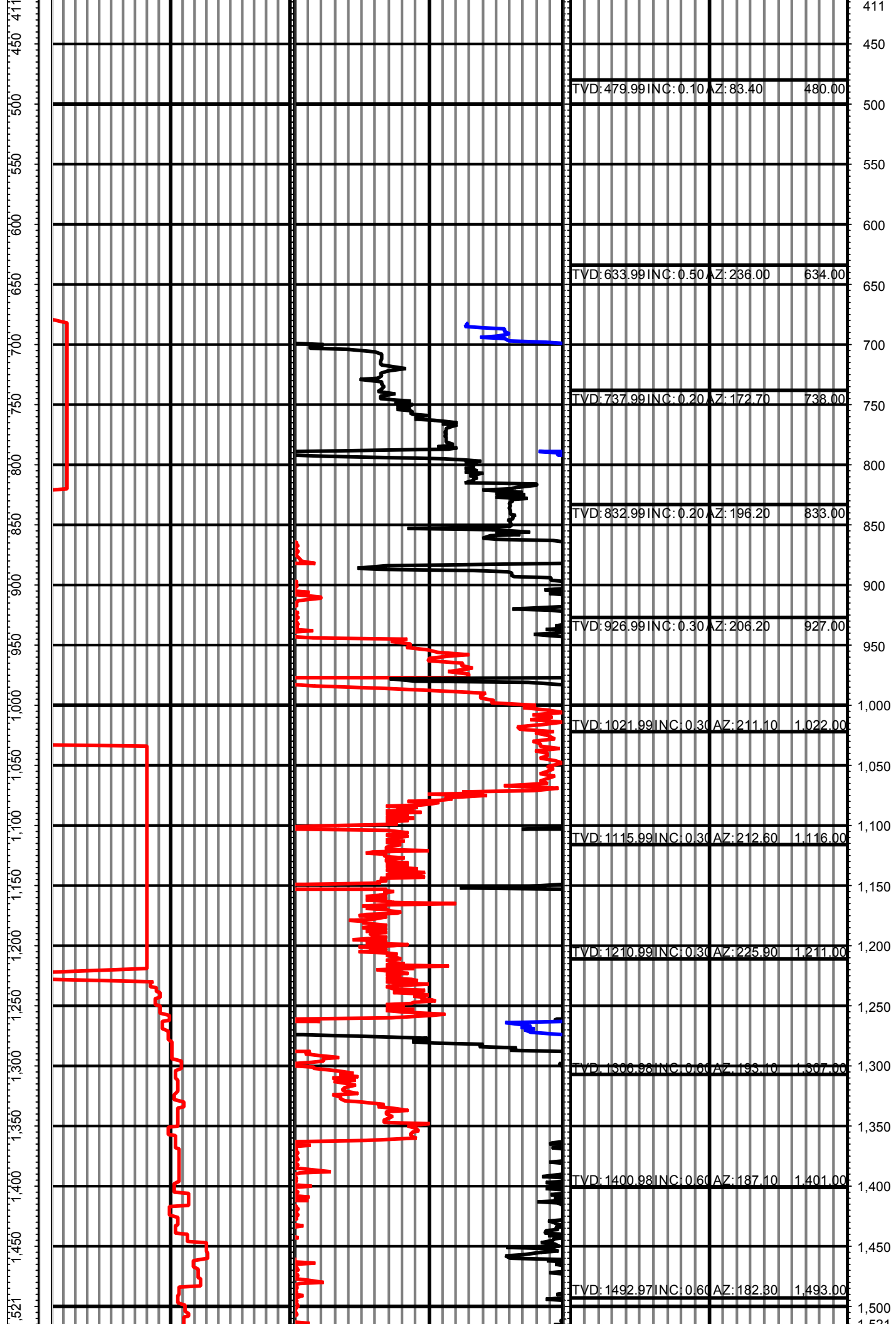
Tool Run Data

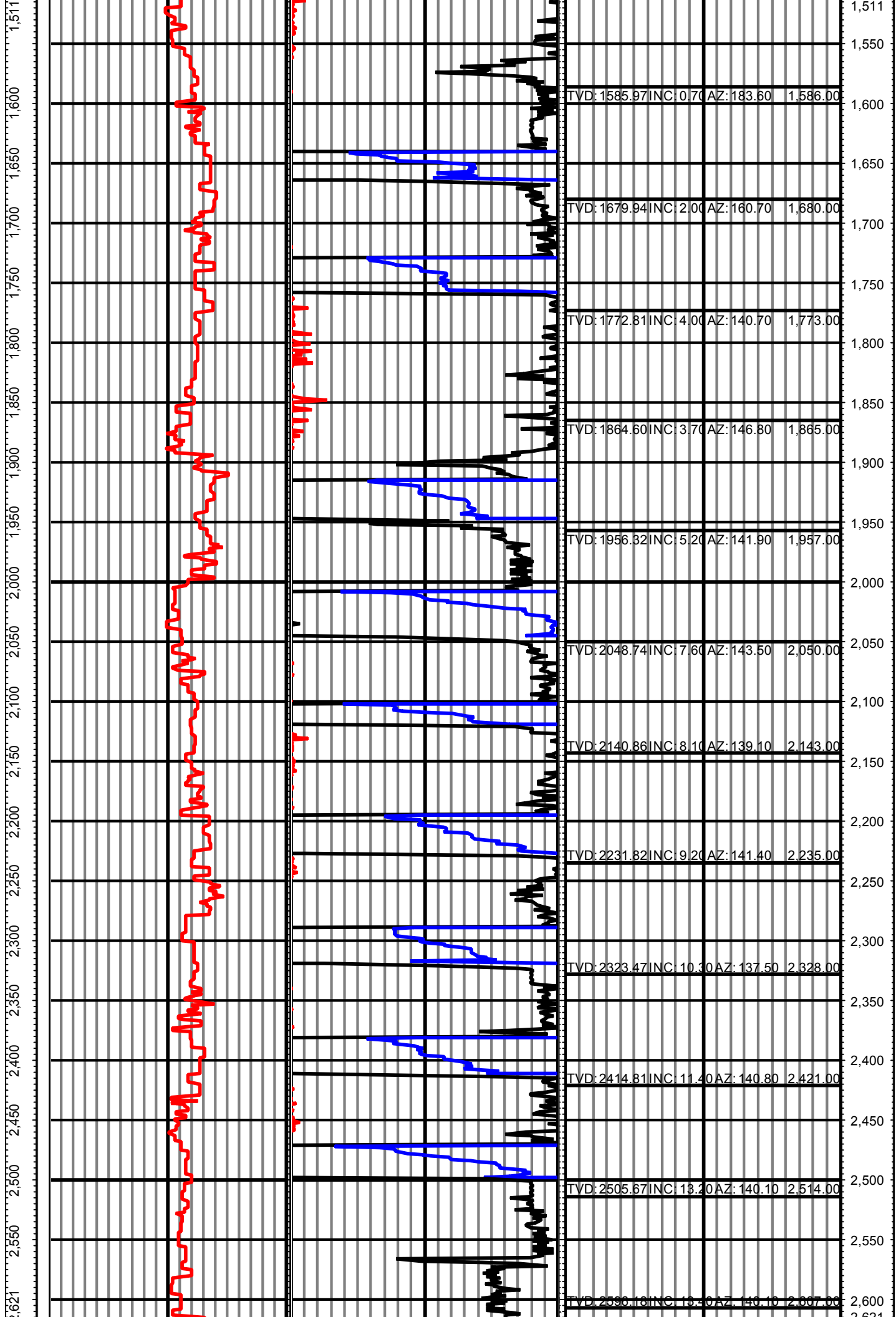
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130	38	3.768	7/29/2013 6:00:05 AM	1259	7/29/2013 11:30:05 PM	4986
130	47	3.768	7/30/2013 9:00:10 AM	4986	7/31/2013 1:00:10 AM	6132
130	51	4986	8/1/2013 3:00:56 PM	6132	8/5/2013 5:00:56 PM	14739

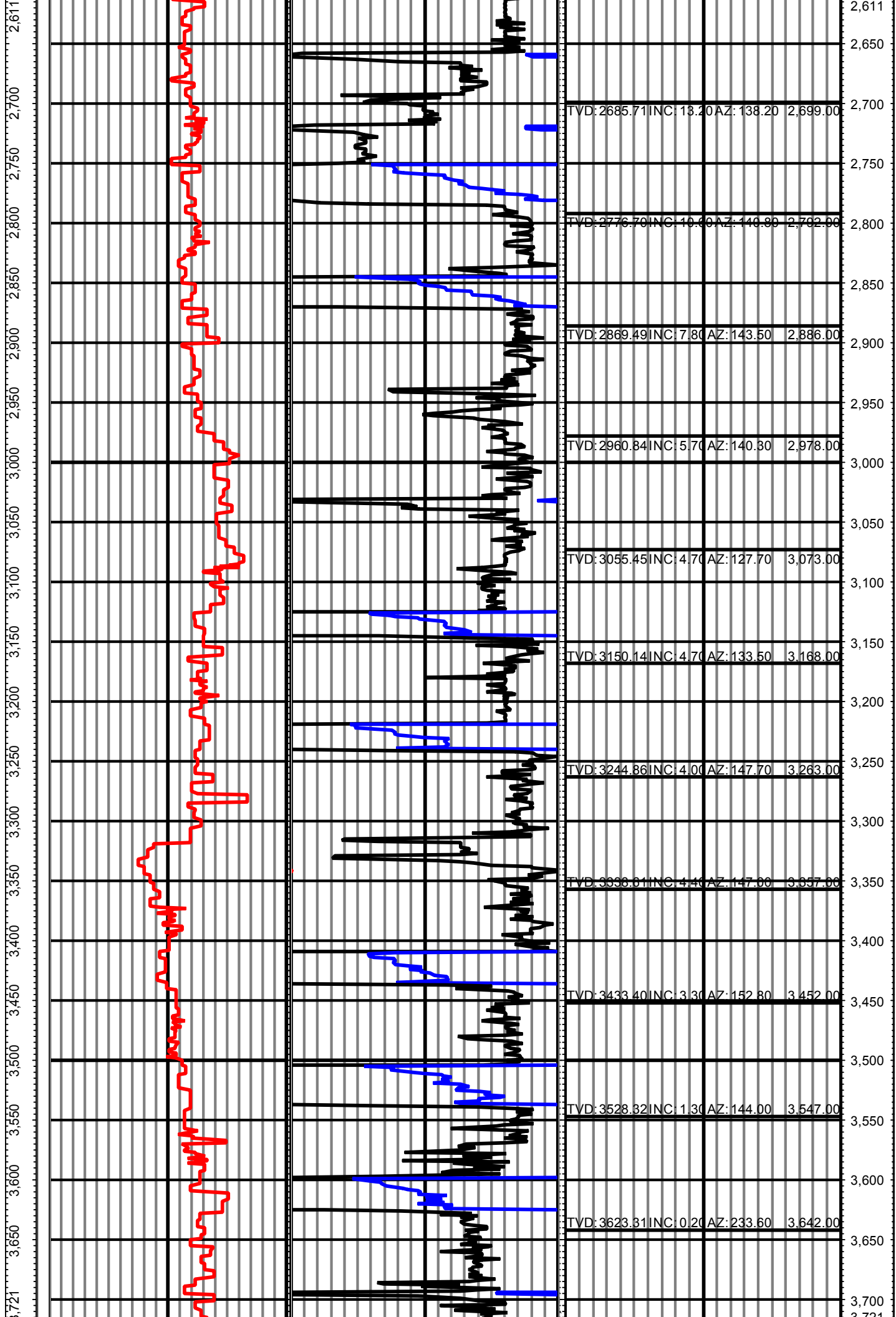
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.

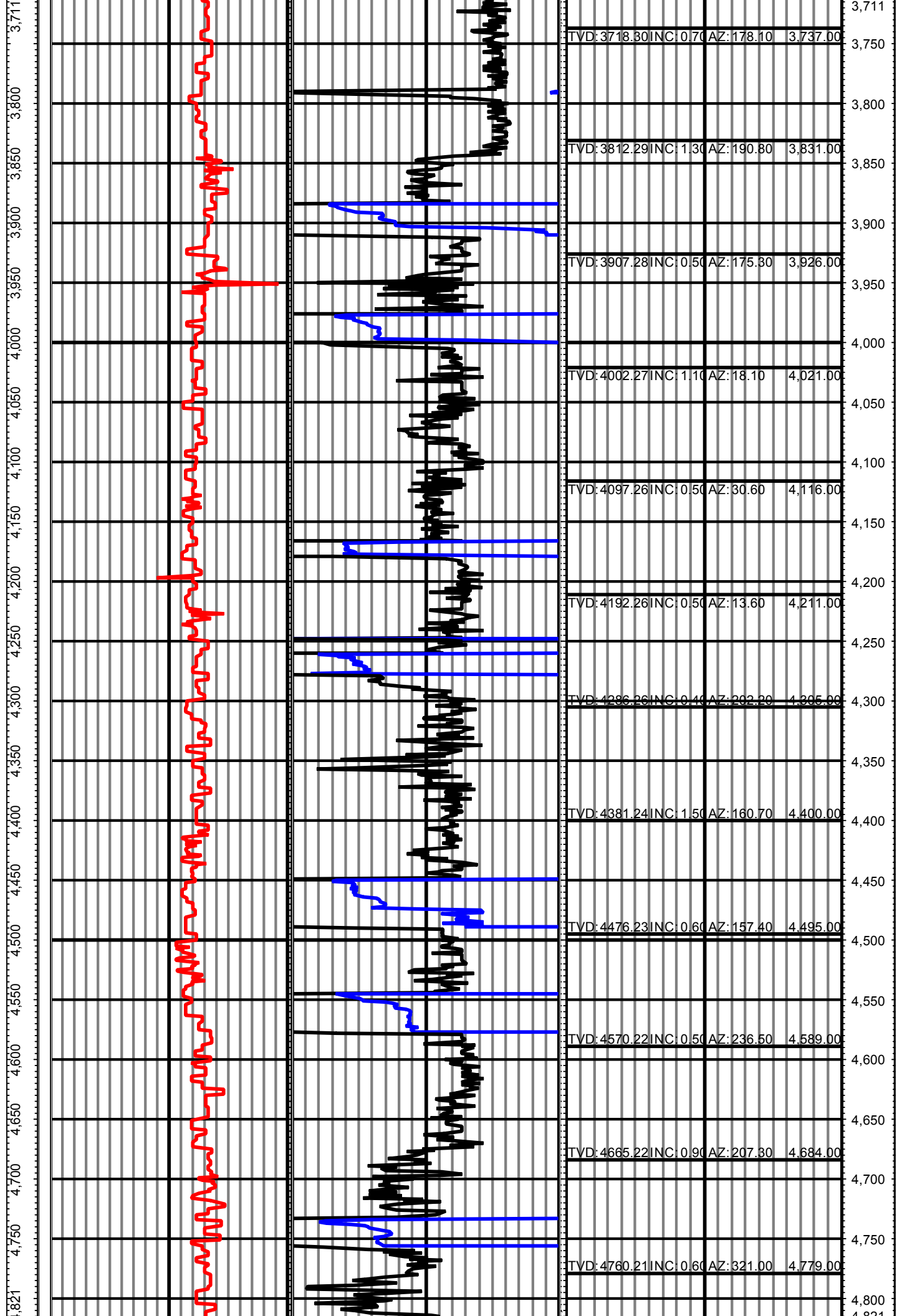
MD 0.00 Counts(mG) on MD 125.00 0.00 ROP(FT/HR) on MD 511.86 FT 125.00 2 250.00 511.86 2 1,023.71 1,023.71 3 1,535.57



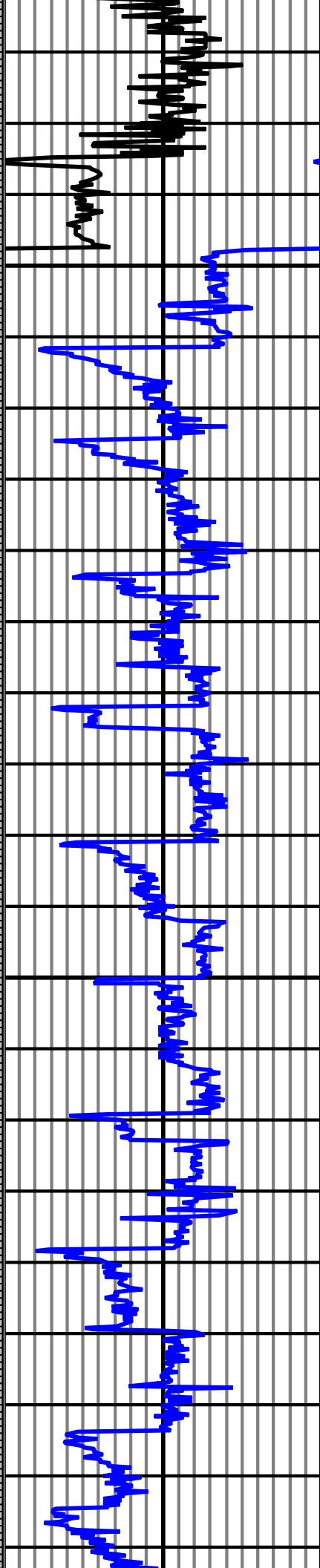
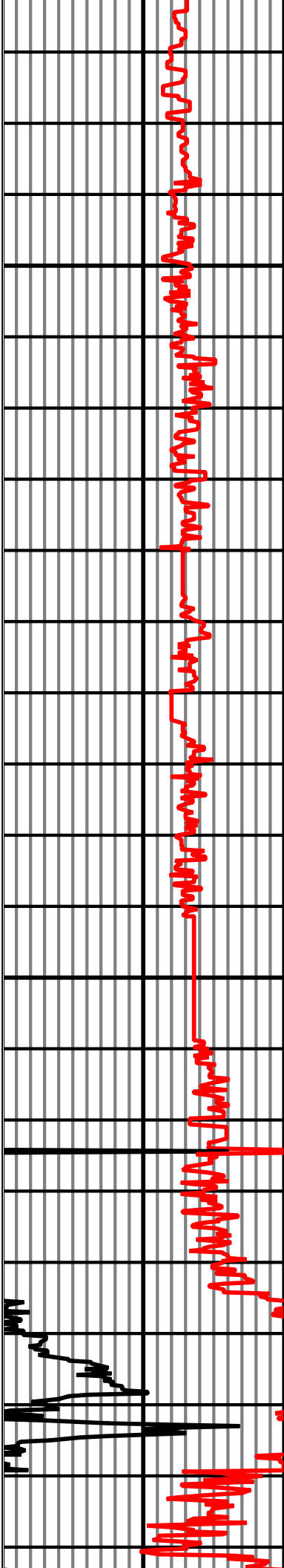






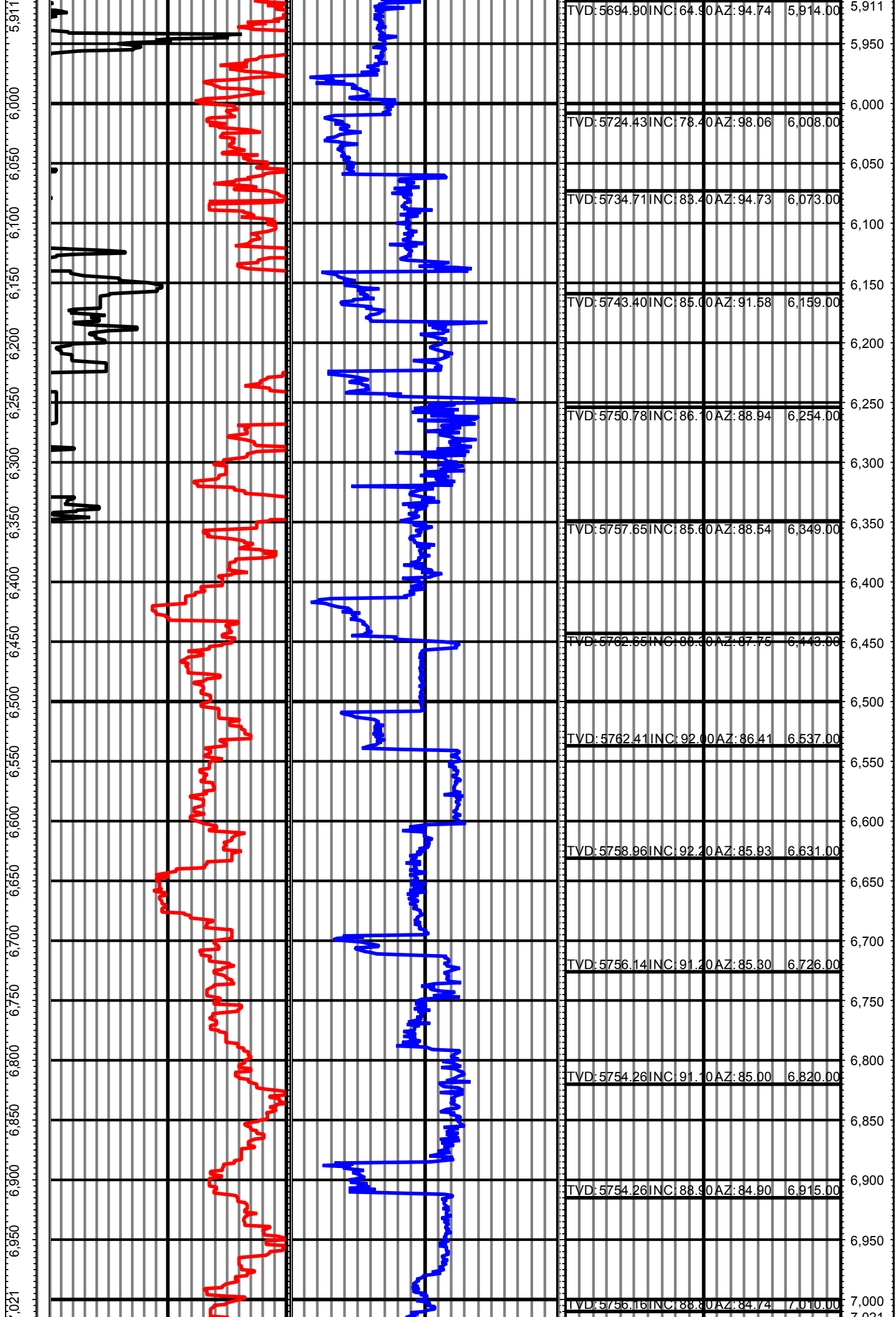


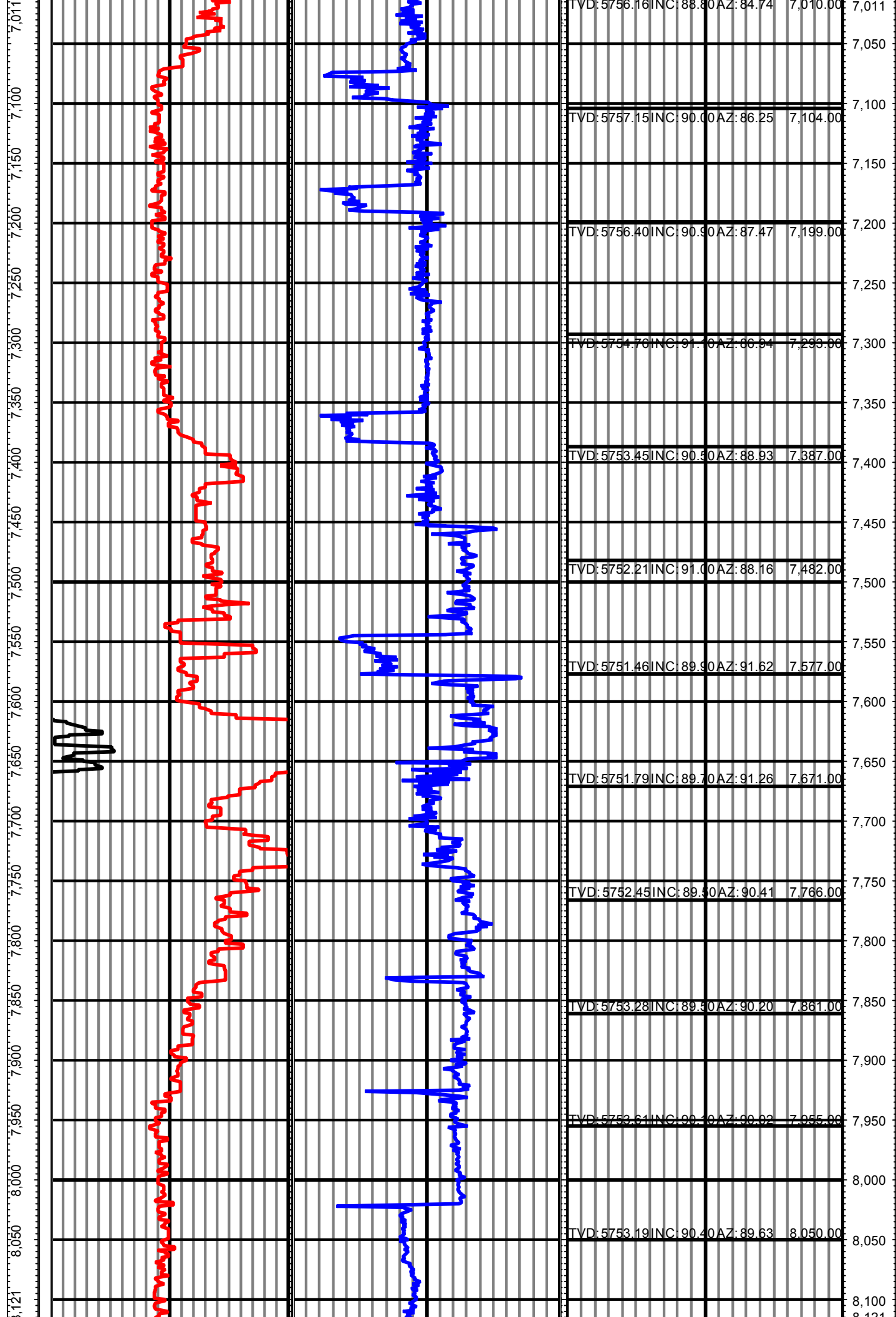
4,811
4,850
4,900
4,950
5,000
5,050
5,100
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5,200
5,250
5,300
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5,800
5,850
5,900
5,921

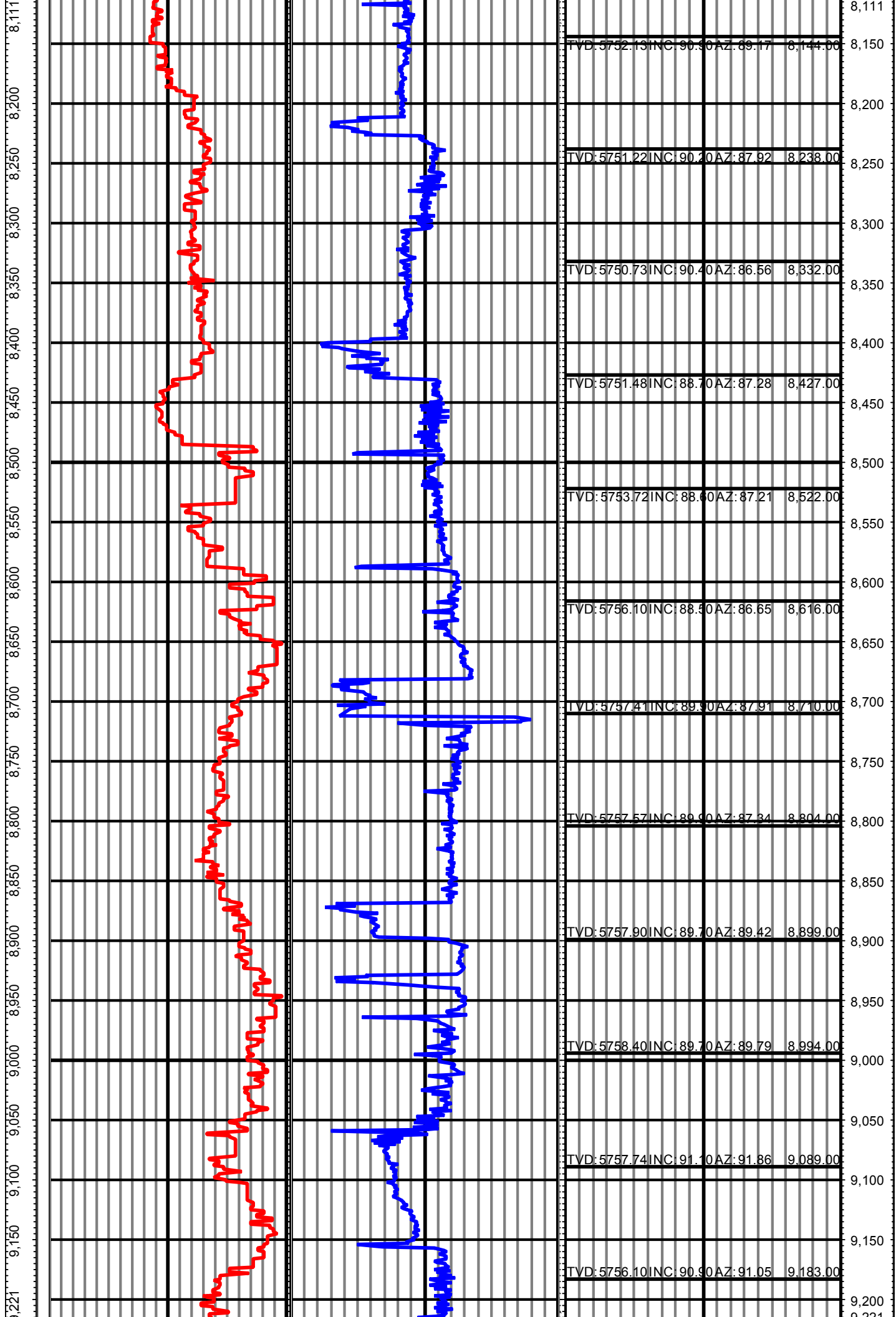


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TVD: 4917.20	INC: 0.90	AZ: 341.40	4,936.00
TVD: 4948.19	INC: 0.90	AZ: 333.45	4,967.00
TVD: 5043.18	INC: 1.50	AZ: 51.56	5,062.00
TVD: 5137.09	INC: 14.30	AZ: 79.14	5,157.00
TVD: 5224.71	INC: 27.30	AZ: 82.06	5,251.00
TVD: 5307.27	INC: 31.80	AZ: 87.06	5,346.00
TVD: 5386.25	INC: 35.70	AZ: 91.41	5,441.00
TVD: 5459.59	INC: 41.70	AZ: 88.32	5,535.00
TVD: 5527.62	INC: 46.80	AZ: 87.04	5,630.00
TVD: 5589.74	INC: 51.30	AZ: 86.46	5,725.00
TVD: 5646.63	INC: 54.00	AZ: 87.01	5,819.00
TVD: 5694.90	INC: 64.90	AZ: 94.74	5,914.00

4,850
4,900
4,950
5,000
5,050
5,100
5,150
5,200
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5,650
5,700
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5,850
5,900
5,921

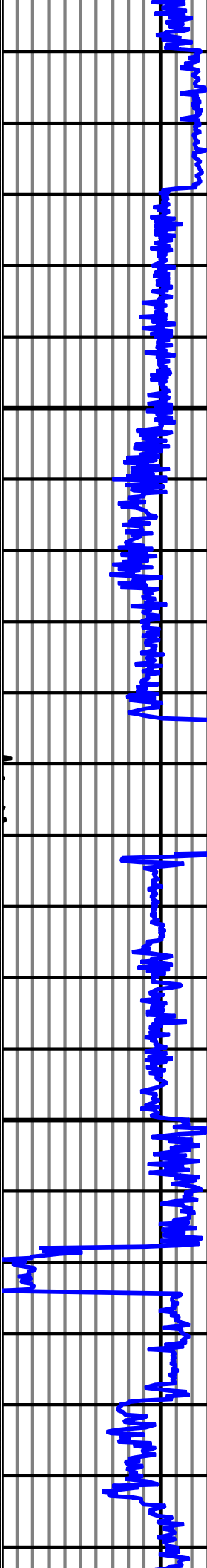
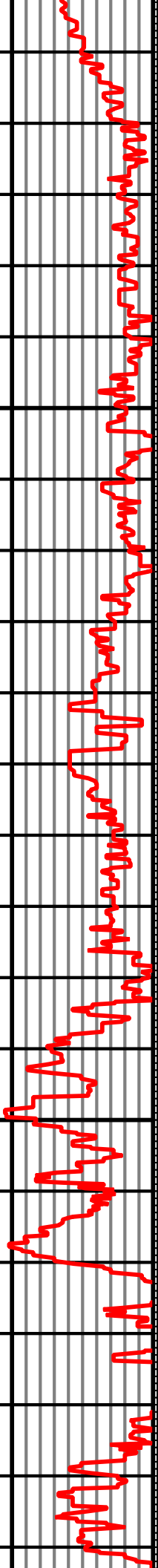






9,211 9,300 9,350 9,400 9,450 9,500 9,550 9,600 9,650 9,700 9,750 9,800 9,850 9,900 9,950 10,000 10,050 10,100 10,150 10,200 10,250 0,321

ANAL



TVD: 5754.94 INC: 90.50 AZ: 90.40 9,278.00

TVD: 5754.36 INC: 90.20 AZ: 89.91 9,372.00

TVD: 5754.45 INC: 89.70 AZ: 88.86 9,467.00

TVD: 5755.18 INC: 89.40 AZ: 88.16 9,561.00

TVD: 5756.26 INC: 89.30 AZ: 87.28 9,656.00

TVD: 5756.10 INC: 90.90 AZ: 88.17 9,748.00

TVD: 5754.62 INC: 90.90 AZ: 89.12 9,842.00

TVD: 5752.72 INC: 91.50 AZ: 89.08 9,933.00

TVD: 5749.77 INC: 92.10 AZ: 88.50 10,027.00

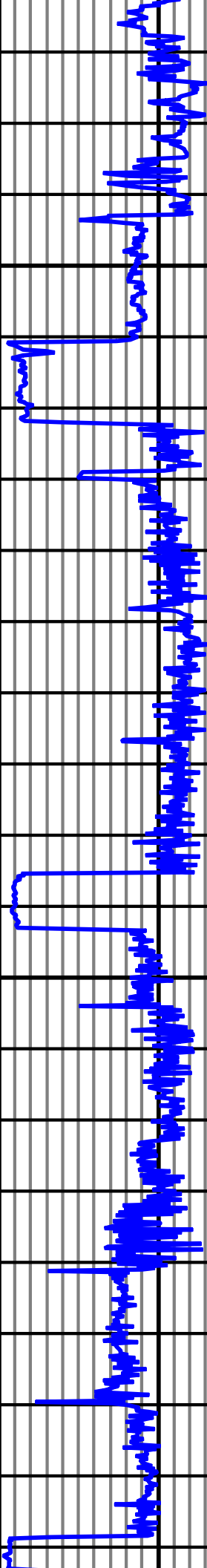
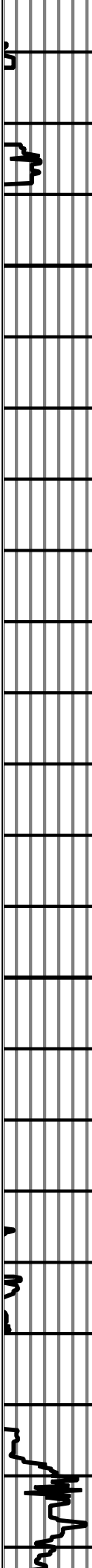
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TVD: 5749.10 INC: 89.90 AZ: 88.10 10,214.00

TVD: 5740.00 INC: 89.60 AZ: 87.57 10,305.00

9,211 9,300 9,350 9,400 9,450 9,500 9,550 9,600 9,650 9,700 9,750 9,800 9,850 9,900 9,950 10,000 10,050 10,100 10,150 10,200 10,250 0,321

11,421 11,350 11,300 11,250 11,200 11,150 11,100 11,050 11,000 10,950 10,900 10,850 10,800 10,750 10,700 10,650 10,600 10,550 10,500 10,450 10,400 10,311



TVD: 5751.34 INC: 88.70 AZ: 86.80 10,397.00

TVD: 5754.13 INC: 87.00 AZ: 86.63 10,401.00

TVD: 5755.75 INC: 90.70 AZ: 87.22 10,584.00

TVD: 5754.47 INC: 91.50 AZ: 87.96 10,676.00

TVD: 5751.95 INC: 91.60 AZ: 87.64 10,769.00

TVD: 5750.33 INC: 90.40 AZ: 86.55 10,862.00

TVD: 5749.52 INC: 90.60 AZ: 84.10 10,955.00

TVD: 5749.04 INC: 90.00 AZ: 90.93 11,047.00

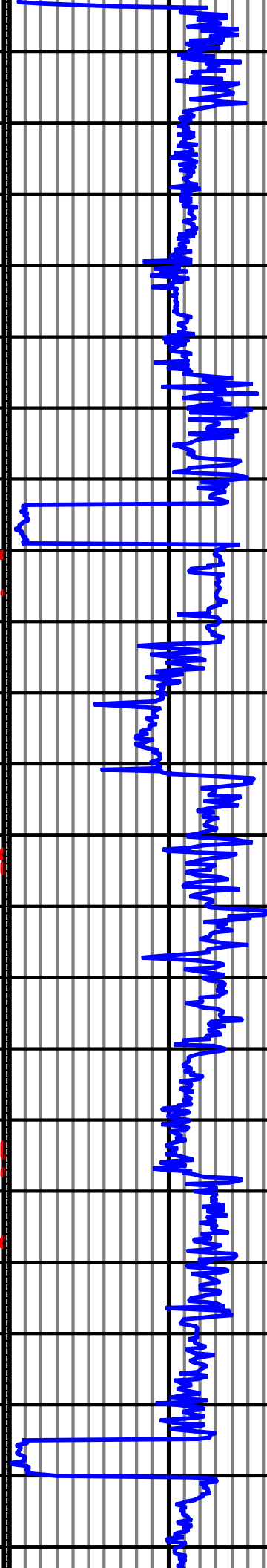
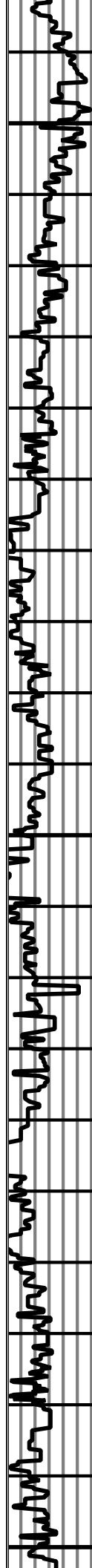
TVD: 5749.44 INC: 89.50 AZ: 90.09 11,139.00

TVD: 5750.01 INC: 89.80 AZ: 90.10 11,233.00

TVD: 5750.82 INC: 89.20 AZ: 89.12 11,326.00

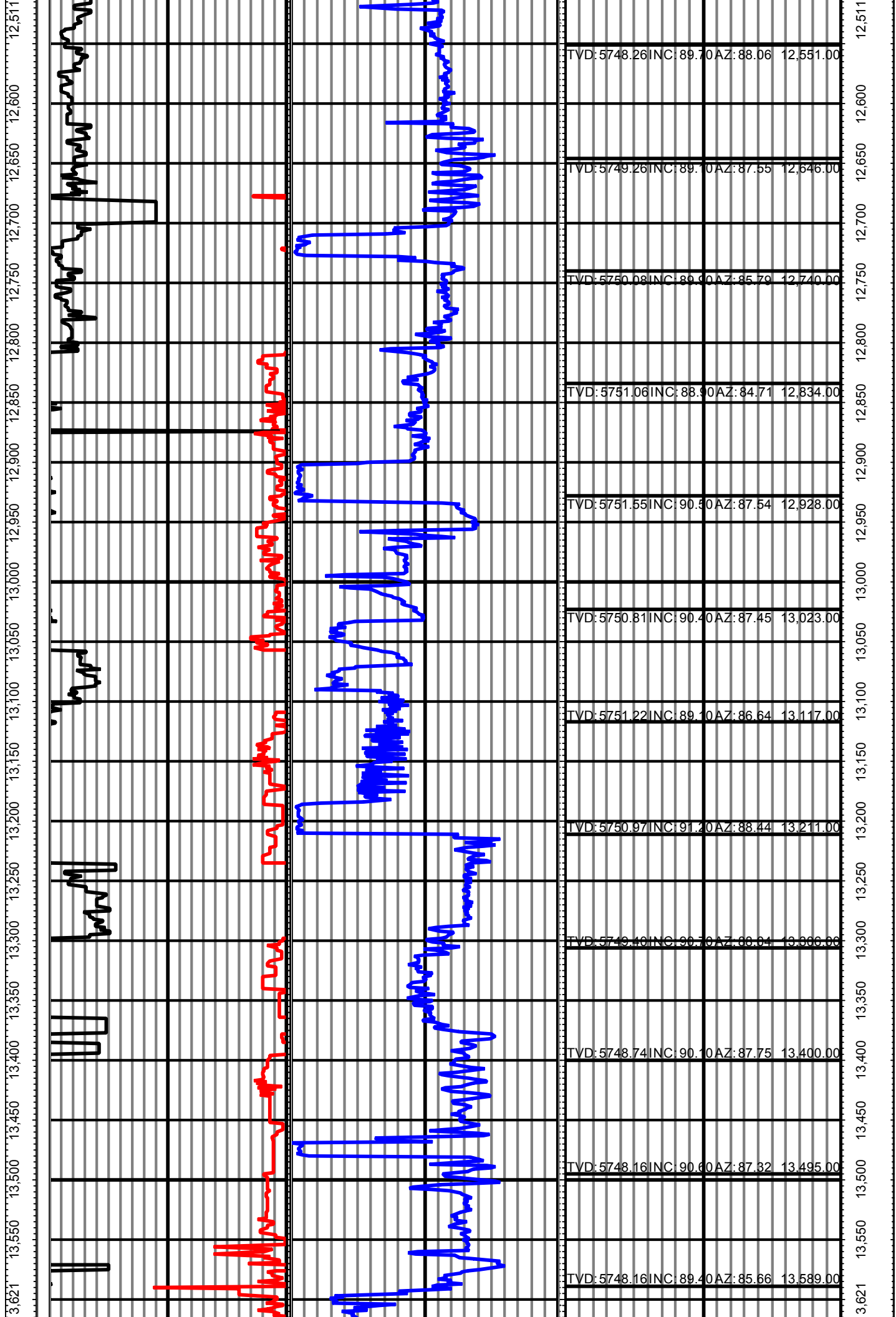
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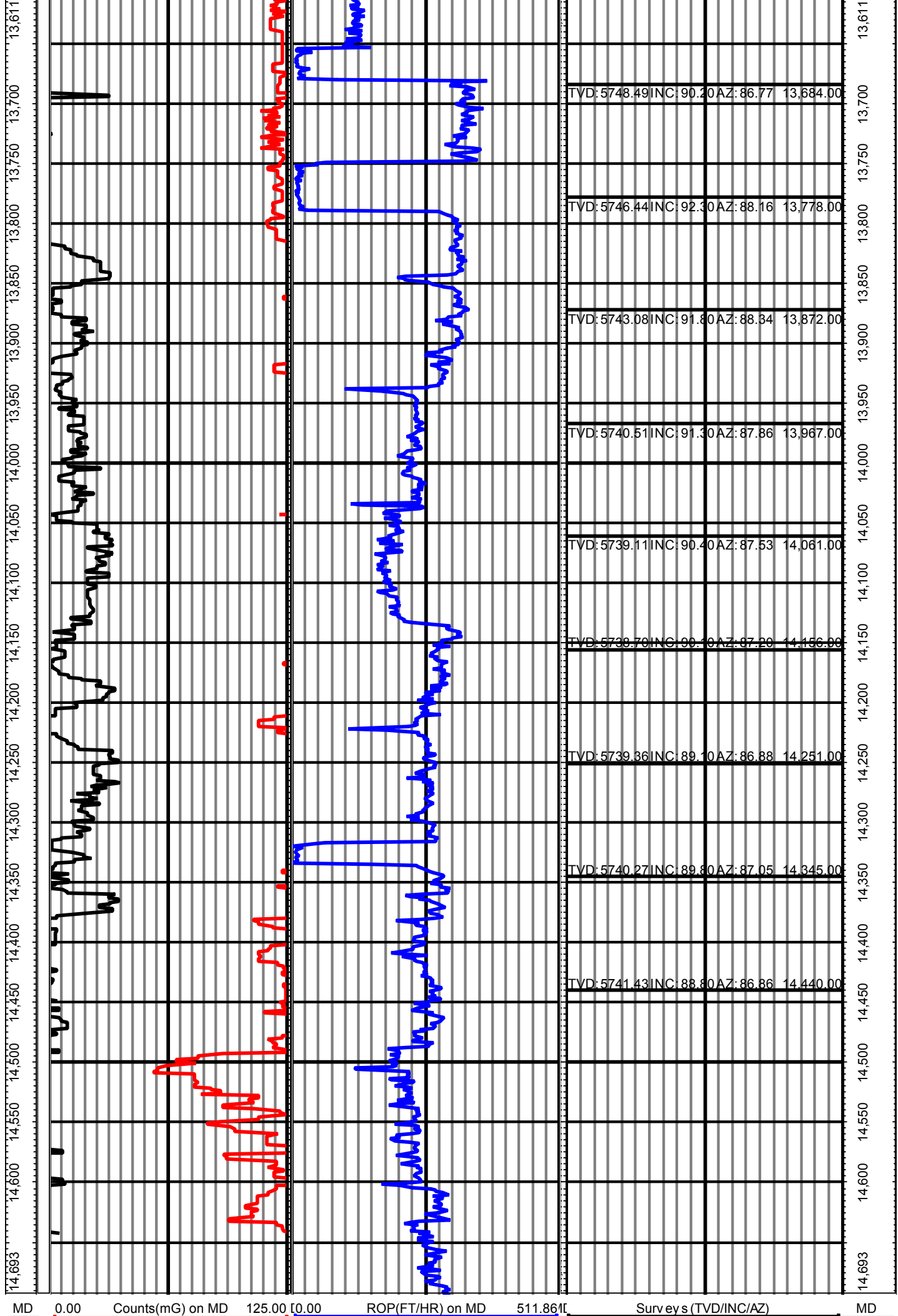
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TVD: 5751.15	INC: 90.40	AZ: 90.69	11,419.00
TVD: 5750.74	INC: 90.70	AZ: 90.67	11,512.00
TVD: 5750.91	INC: 89.70	AZ: 90.24	11,606.00
TVD: 5751.97	INC: 89.00	AZ: 89.50	11,700.00
TVD: 5751.81	INC: 91.20	AZ: 89.54	11,795.00
TVD: 5750.66	INC: 90.70	AZ: 88.41	11,889.00
TVD: 5750.57	INC: 89.90	AZ: 88.40	11,984.00
TVD: 5750.08	INC: 90.70	AZ: 89.95	12,079.00
TVD: 5749.42	INC: 90.70	AZ: 88.82	12,173.00
TVD: 5748.93	INC: 90.90	AZ: 90.28	12,267.00
TVD: 5748.27	INC: 90.90	AZ: 90.48	12,362.00
TVD: 5746.02	INC: 90.60	AZ: 67.90	12,457.00

2,521 12,450 12,400 12,350 12,300 12,250 12,200 12,150 12,100 12,050 12,000 11,950 11,900 11,850 11,800 11,750 11,700 11,650 11,600 11,550 11,500 11,411





FT

125.00 2 250.00

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511.86 2

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FT

1.023.71

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1.535.57



Noble Energy Inc

RM-13585

5":100' - MD

8/5/2013 6:33:29 PM

Oper. Company: DDC

Country: United States

State / Province: Colorado

County / Parish: Weld County

Started: 07/28/2013 11:00 PM

API/UWI: 05-123-37465

Field: Wildcat

Well: Rohn State LD04-68HN

Rig: H&P #326

Ended: 08/05/2013 05:00 PM

Personnel

Day Hand: CHRIS ABBOTT

Night Hand: SCOTT SIMS

Comp. Emp: JOHN DRAHOTA

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Latitude: 40.78613 N

Longitude: -103.87778 W

Elev. GL: 4747

Elev. DF: 30

Elev. KB: 4777

Rohn State LD04-68HN FINAL 5" MD

Hole Data

Size	From	To
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8 3/4	664	6132
6 1/8	6132	14739

Casing Data

Size	From	To
9 5/8	0	654
7	654	6122

Bit Sizes

Size	From	To
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Mud Data

Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
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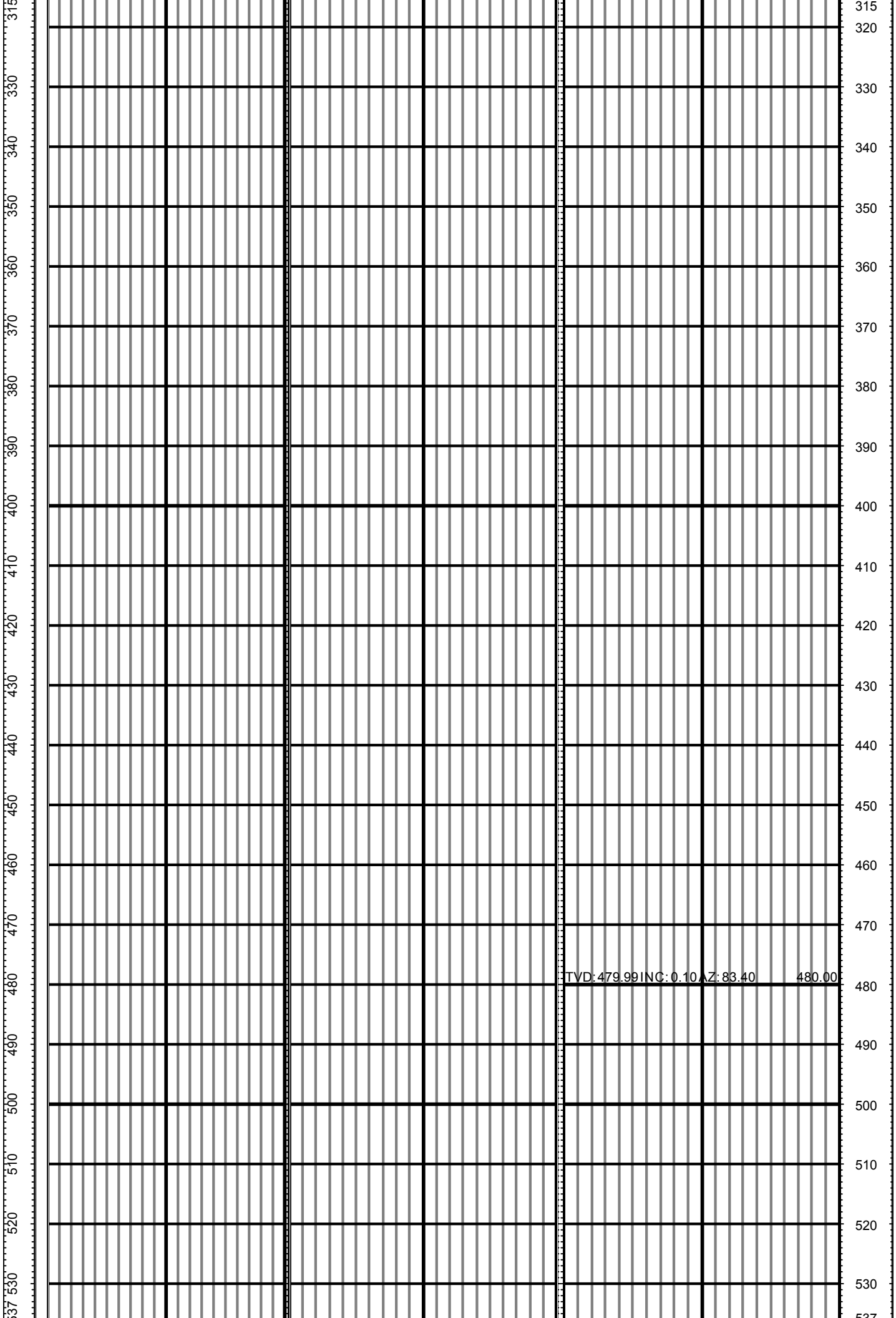
Tool Run Data

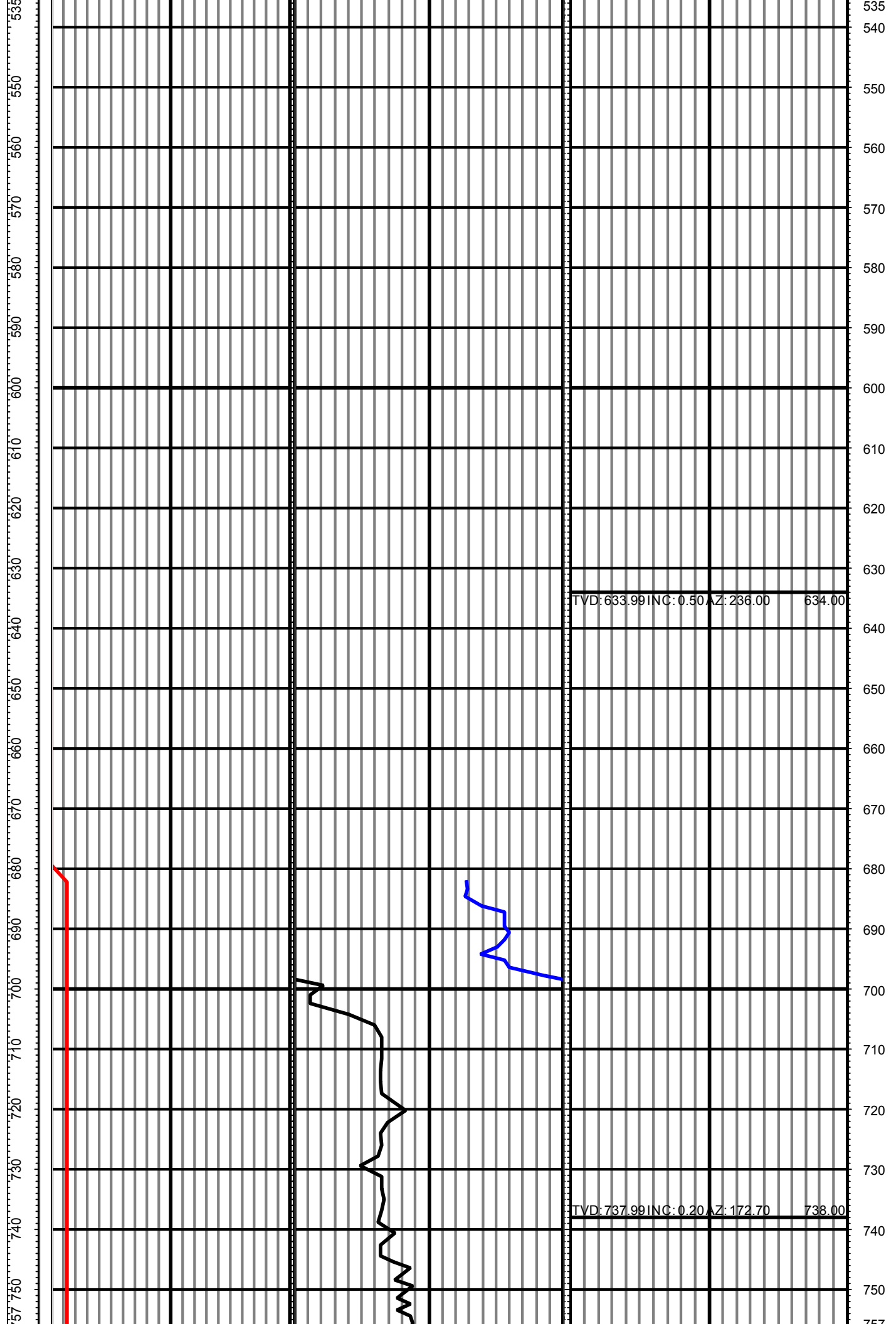
Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
1971	38	3.175	7/28/2013 11:00:41 PM	664	7/29/2013 2:00:41 AM	1259
130	38	3.768	7/29/2013 6:00:05 AM	1259	7/29/2013 11:30:05 PM	4986
130	47	3.768	7/30/2013 9:00:10 AM	4986	7/31/2013 1:00:10 AM	6132
130	51	4986	8/1/2013 3:00:56 PM	6132	8/5/2013 5:00:56 PM	14739

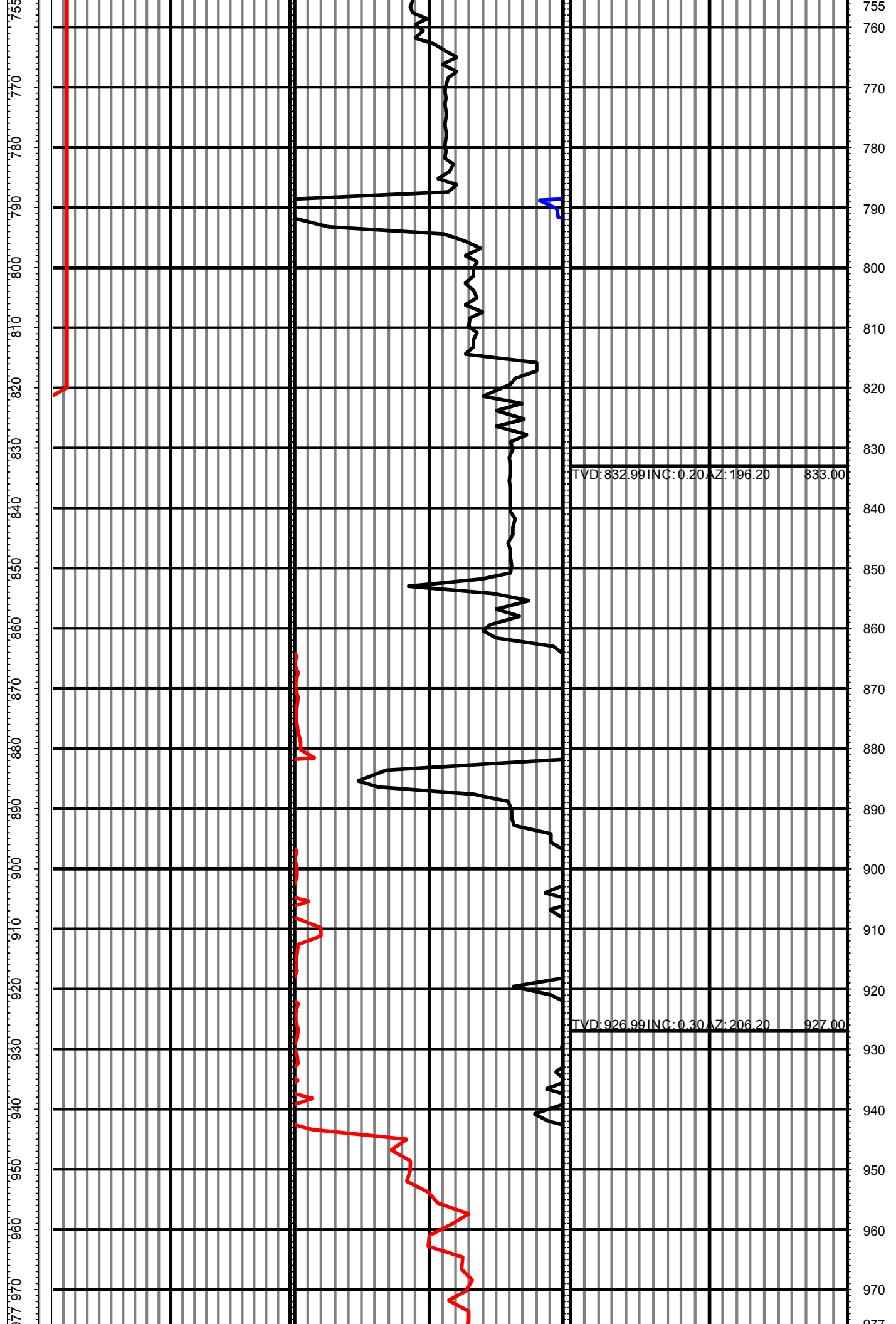
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.

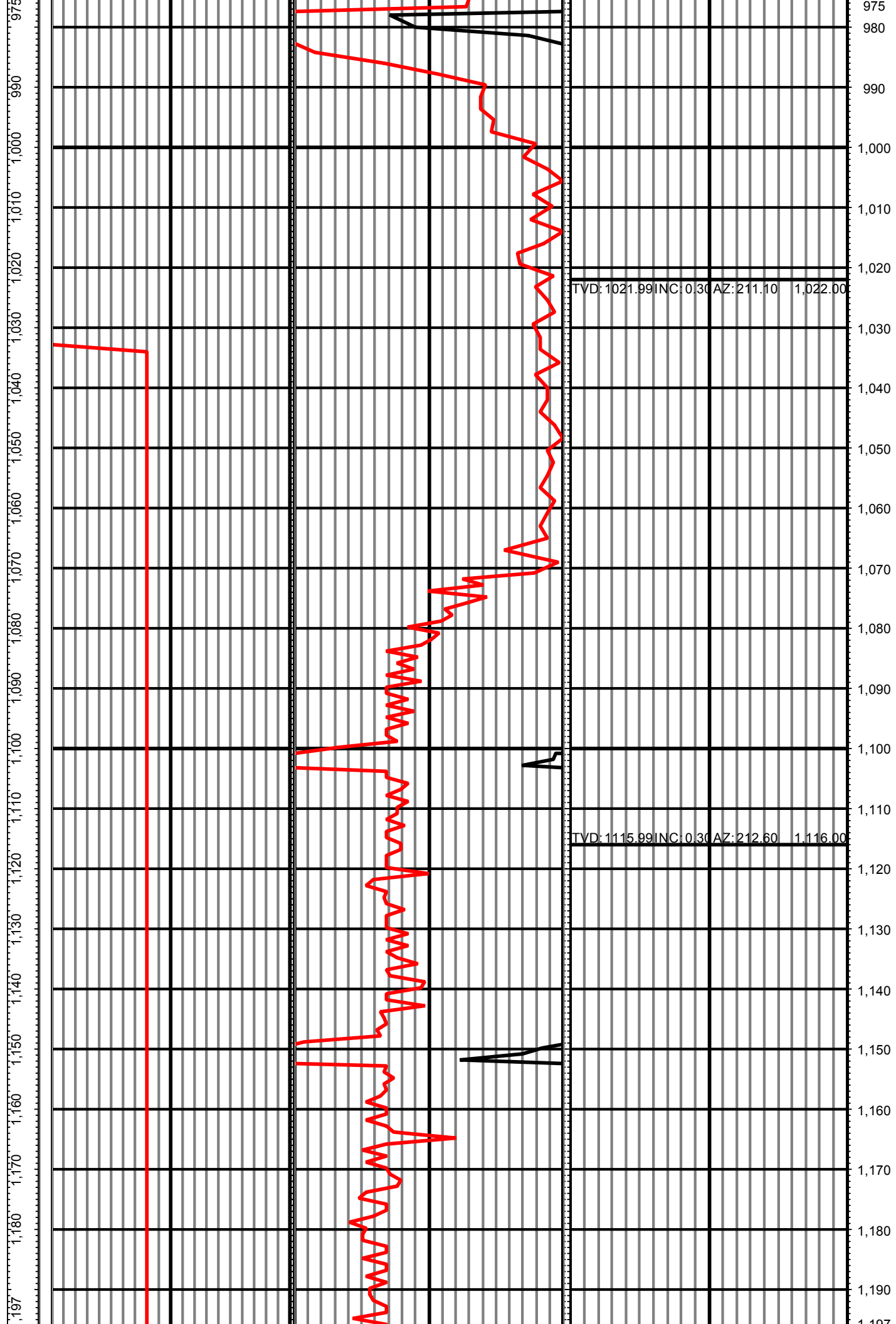
MD 0.00 Counts(mG) on MD 125.00 0.00 ROP(FT/HR) on MD 511.86 1.023.71 1.535.57 Surveys (TVD/INC/AZ) MD
FT 125.00 2 250.00 511.86 2 1,023.71 1,535.57 3

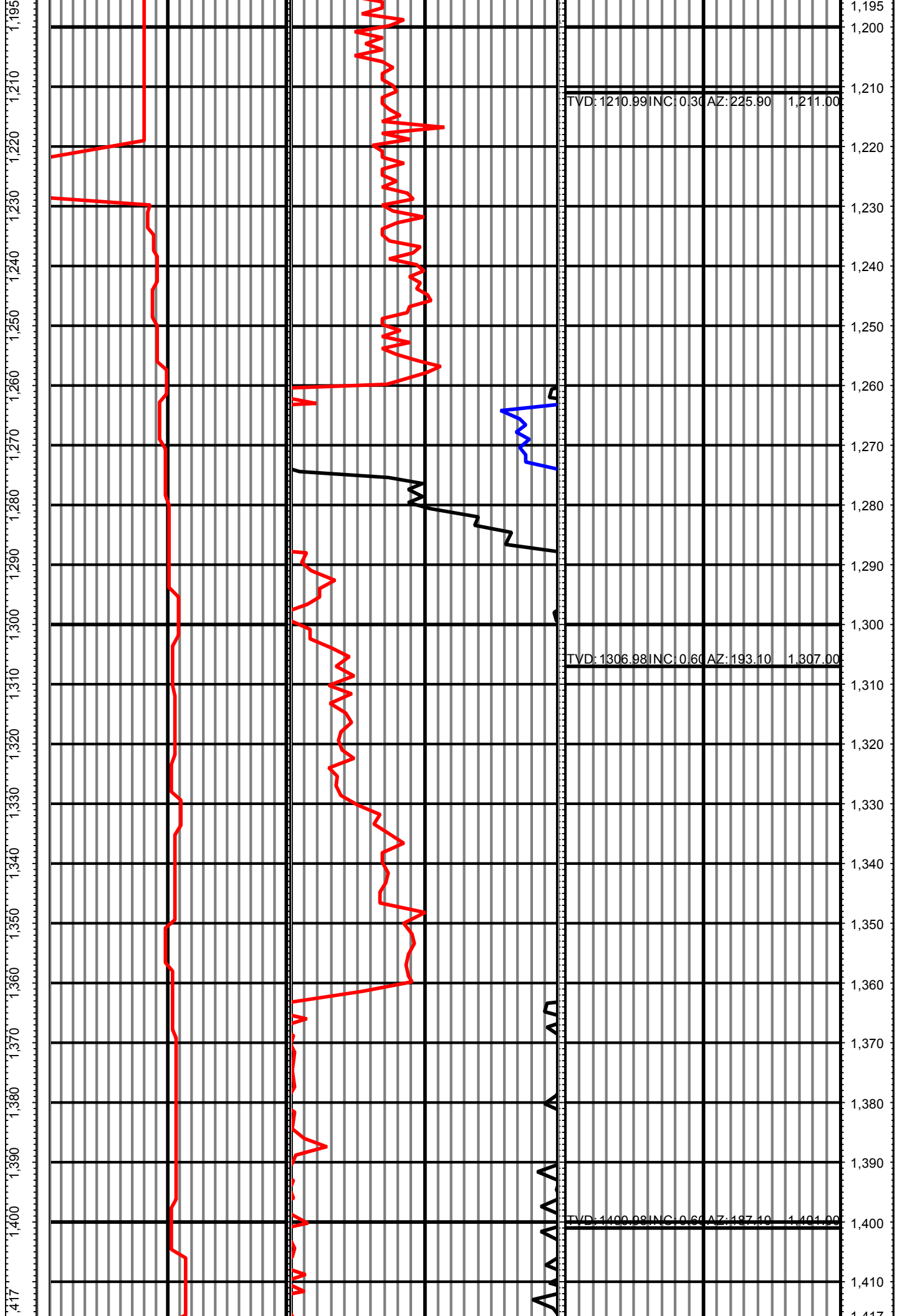
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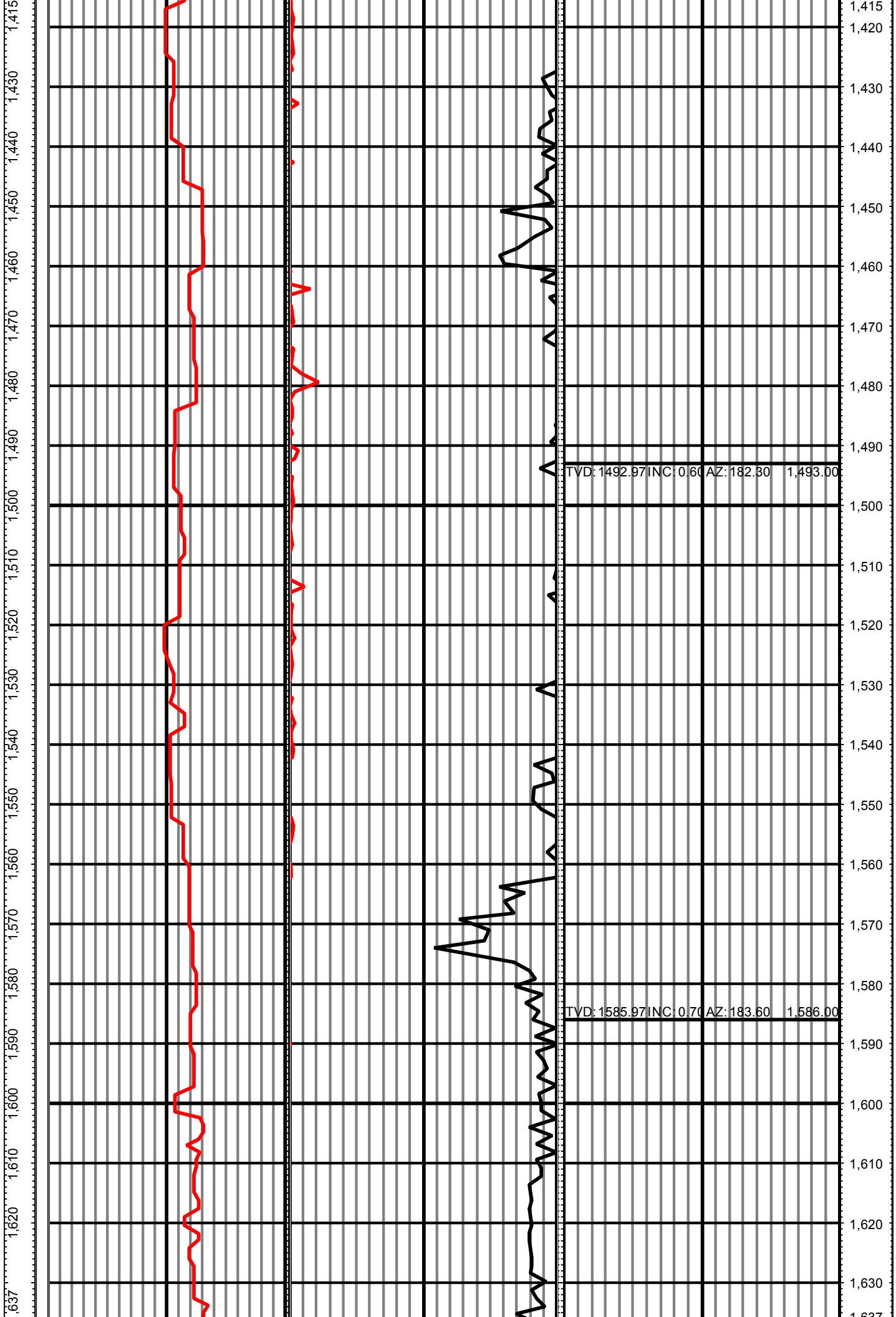


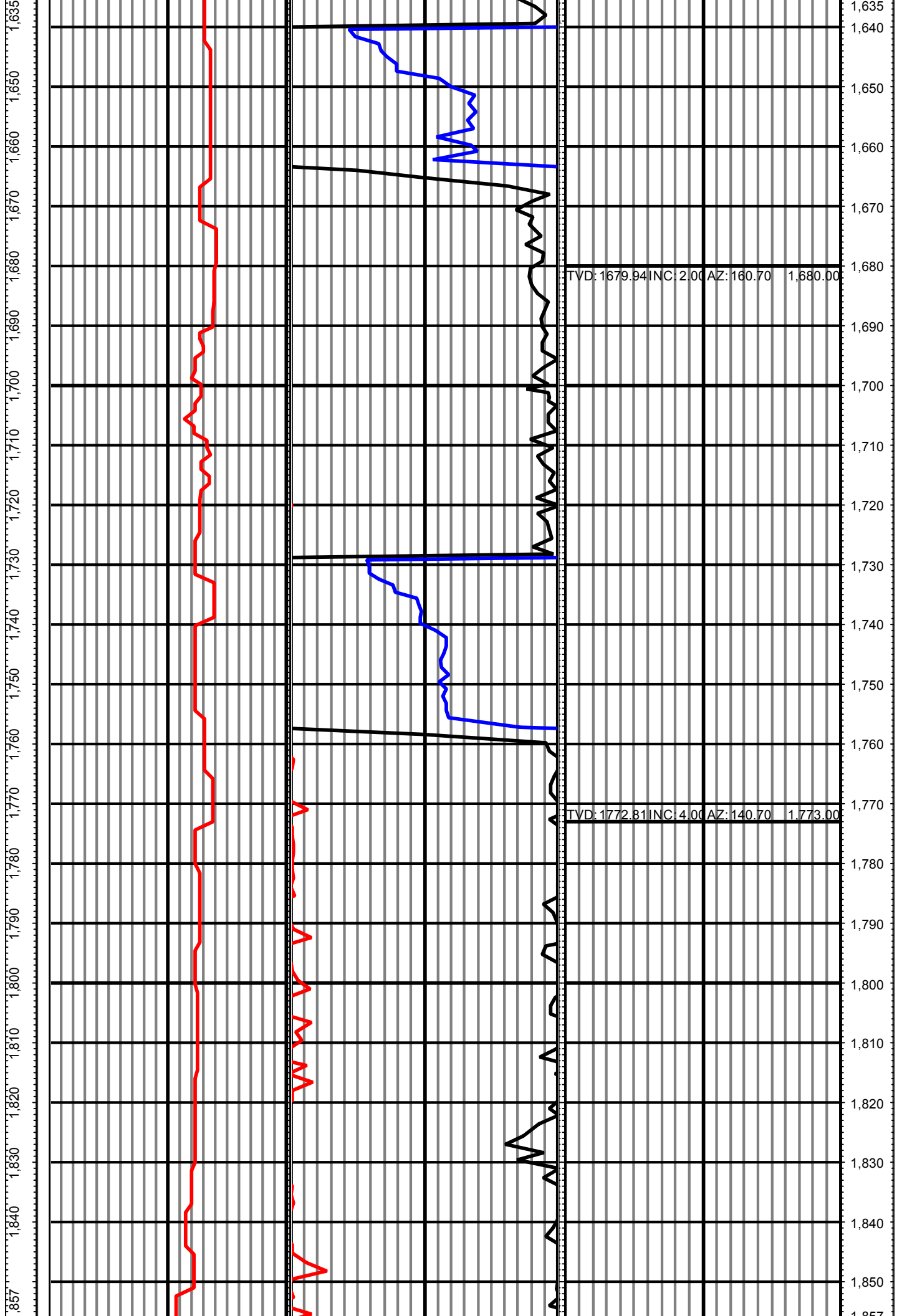


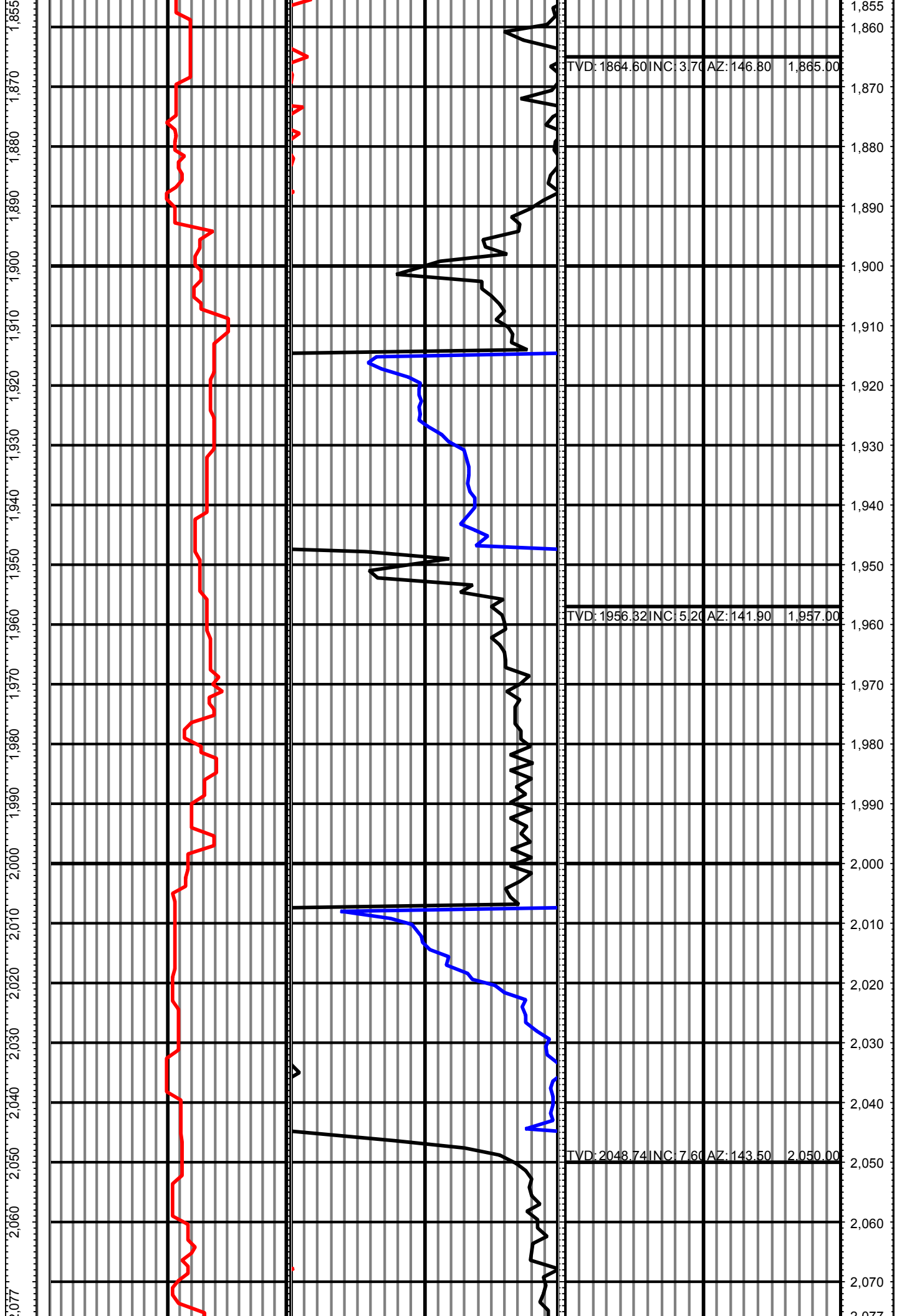


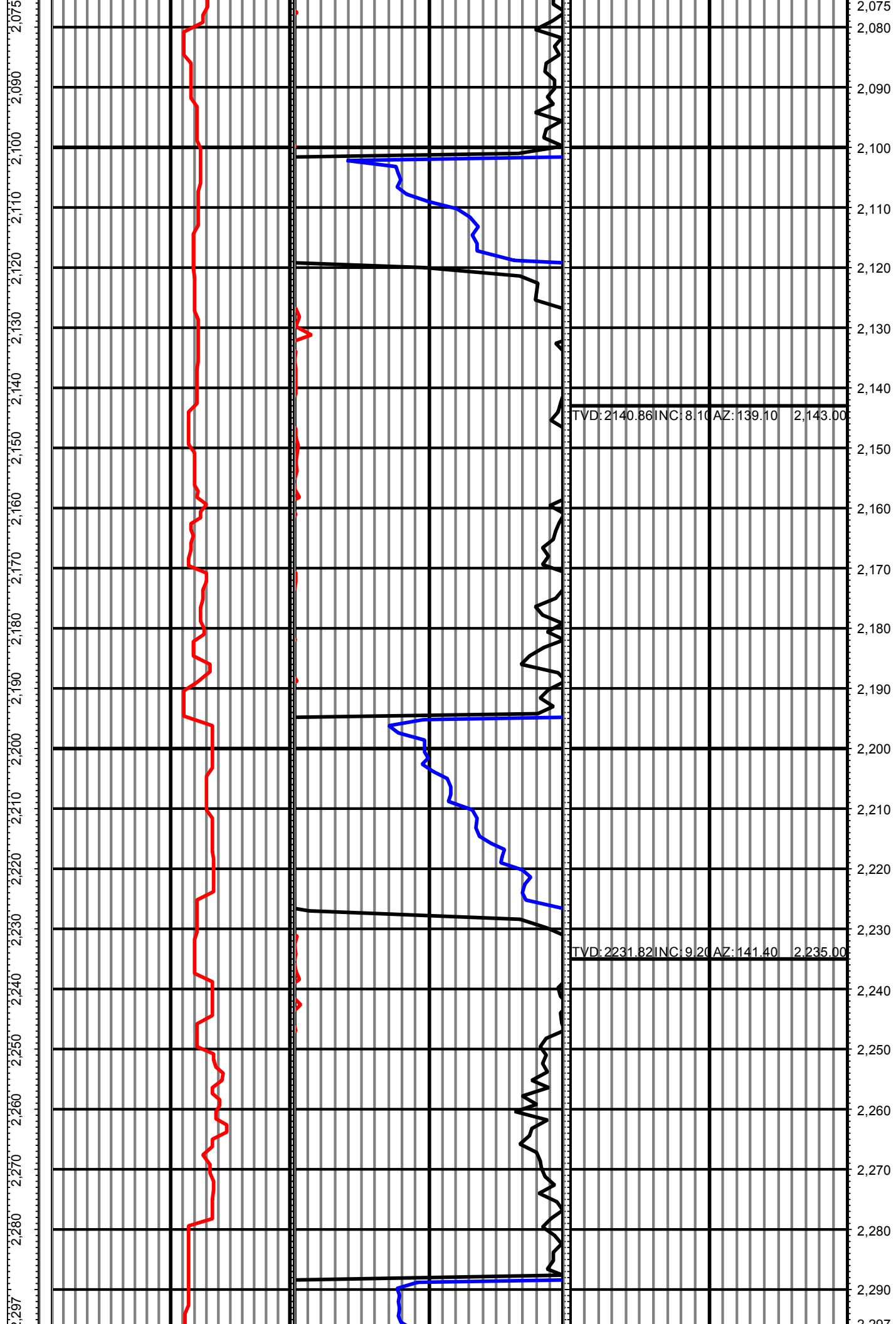


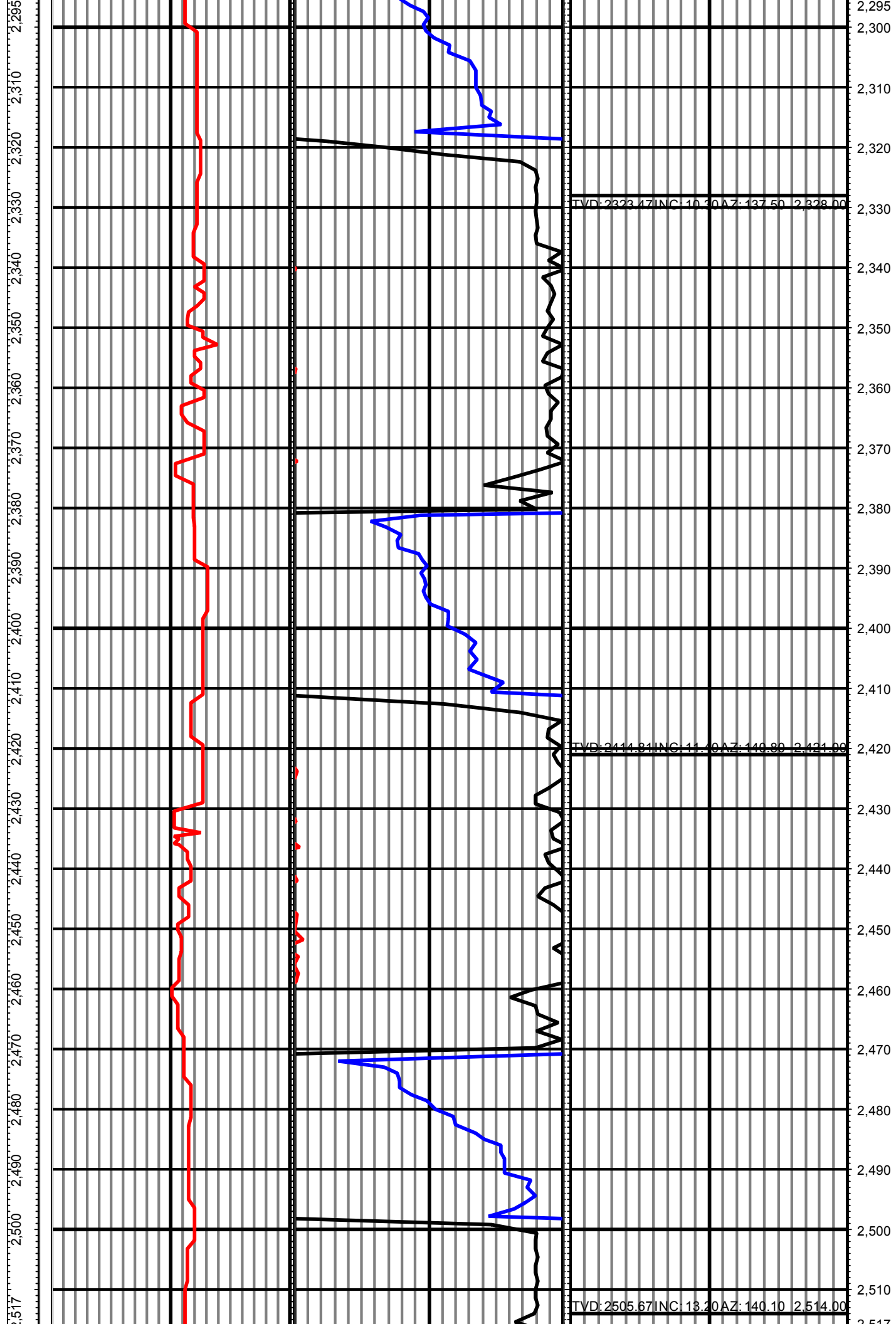


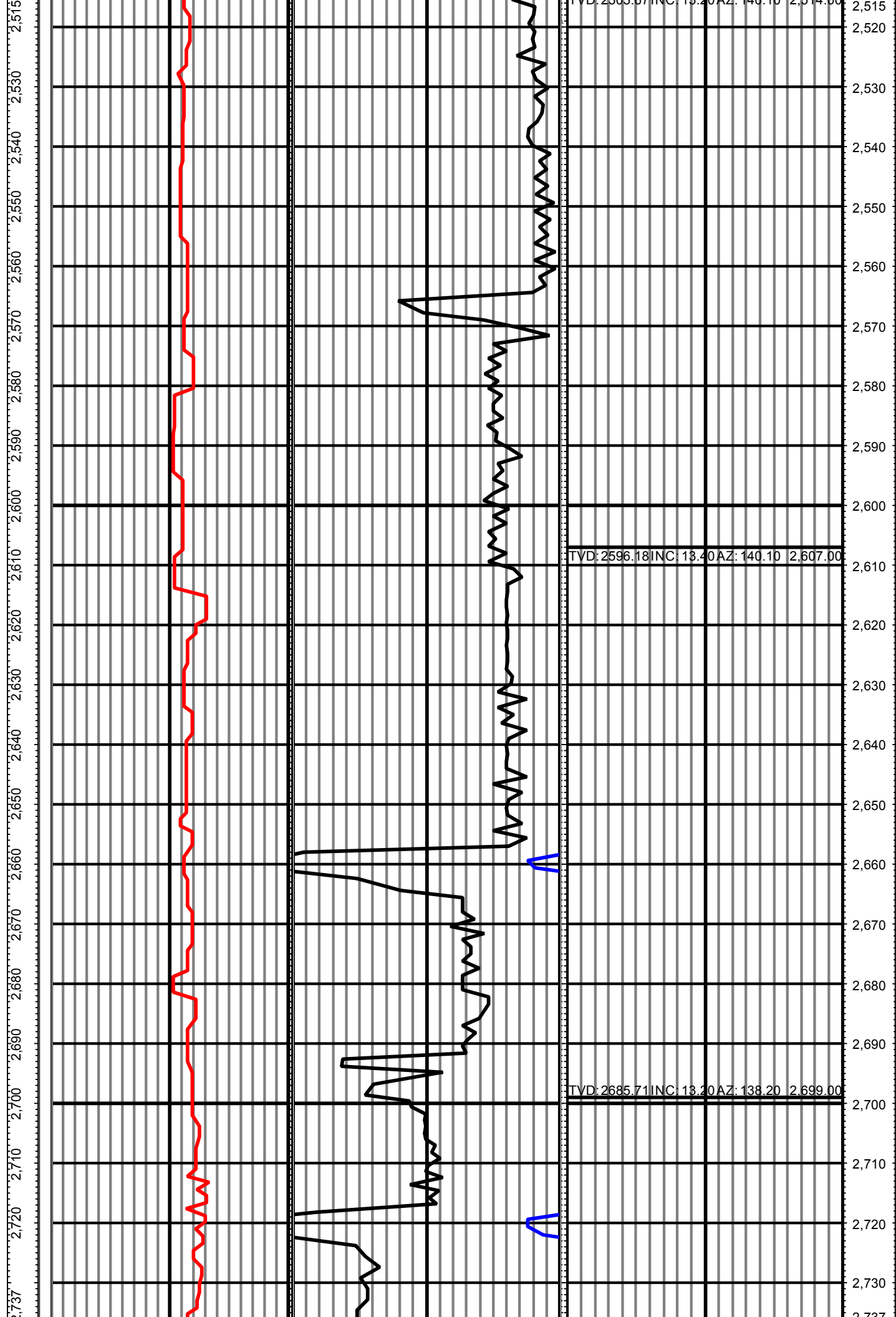


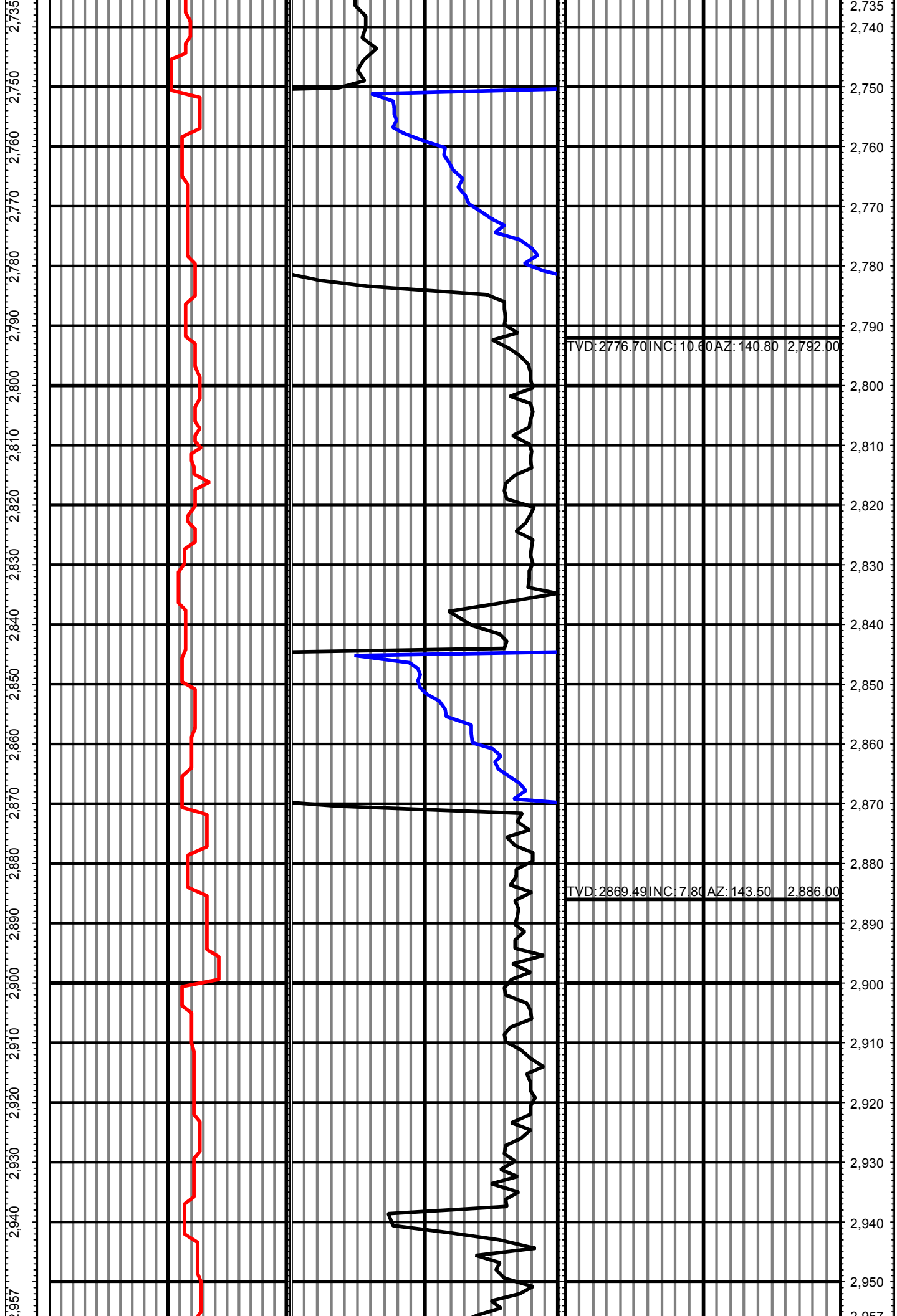


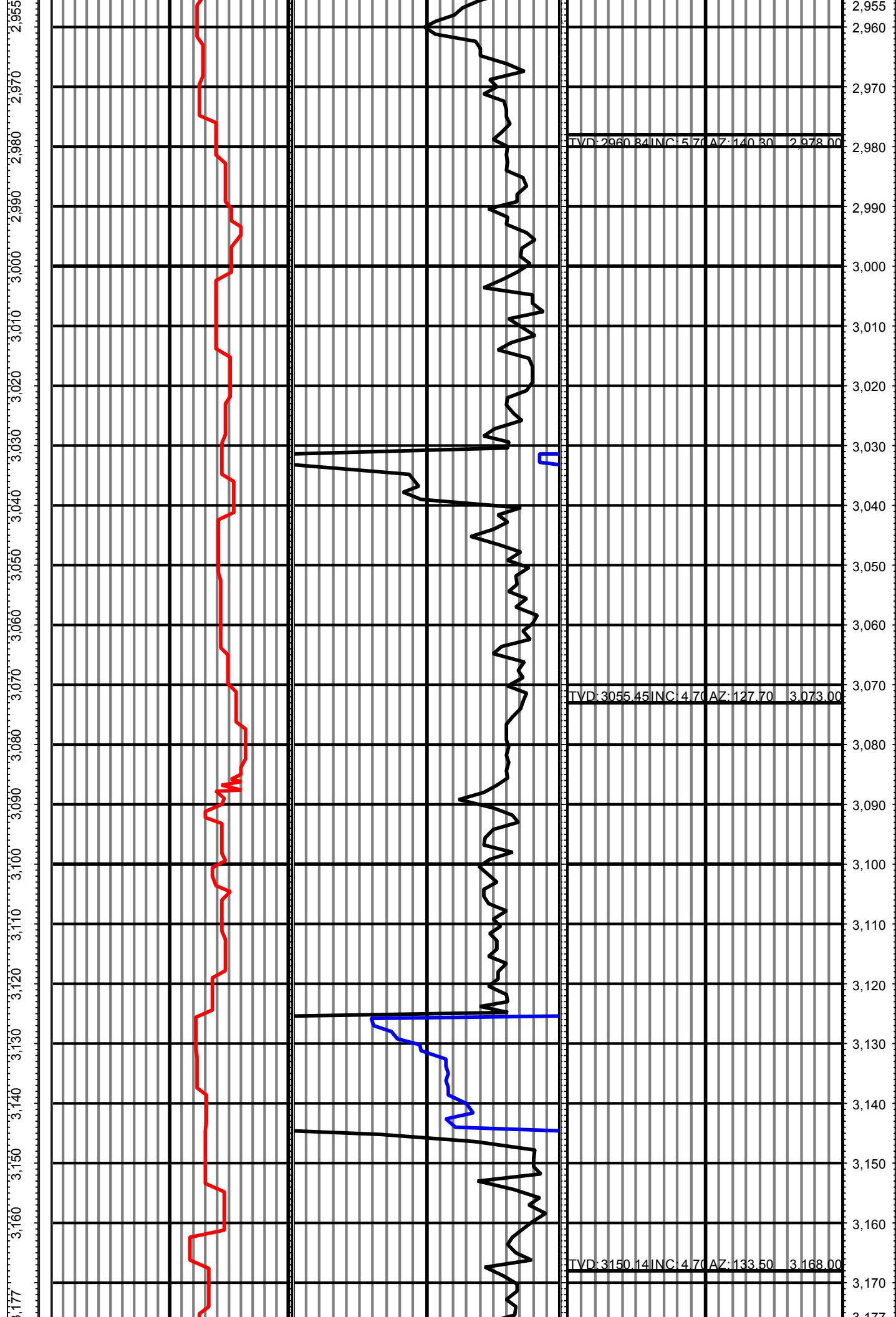


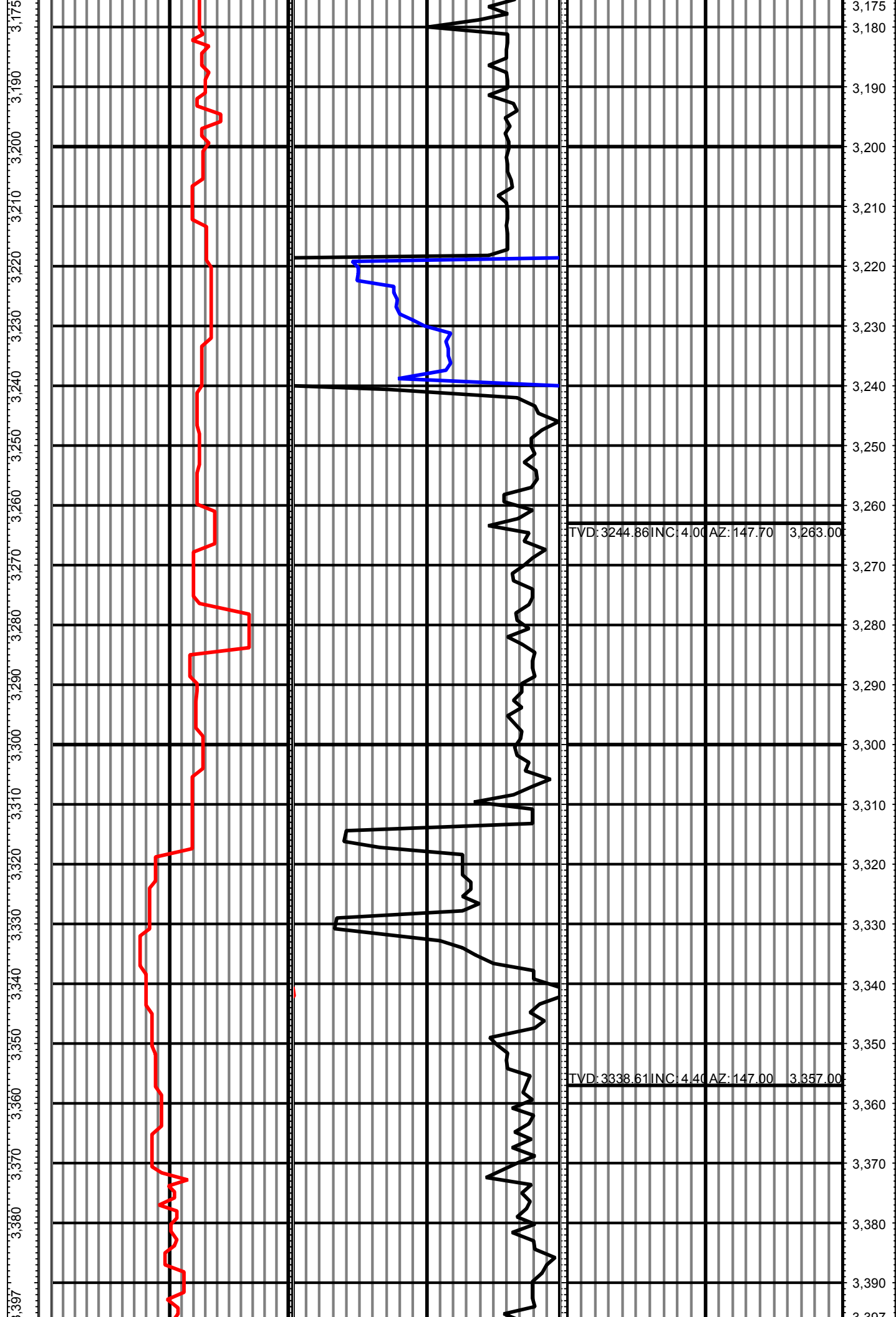


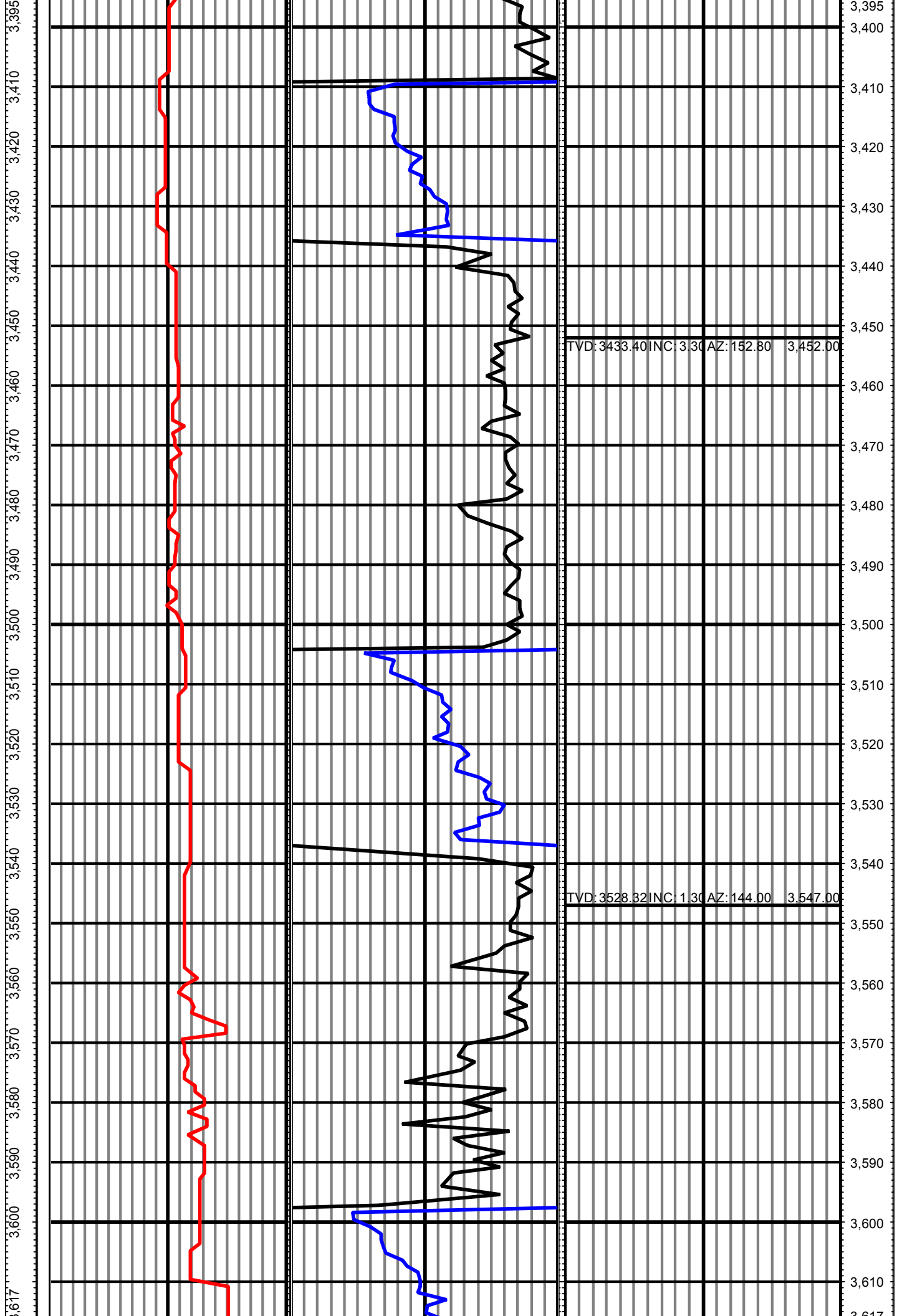


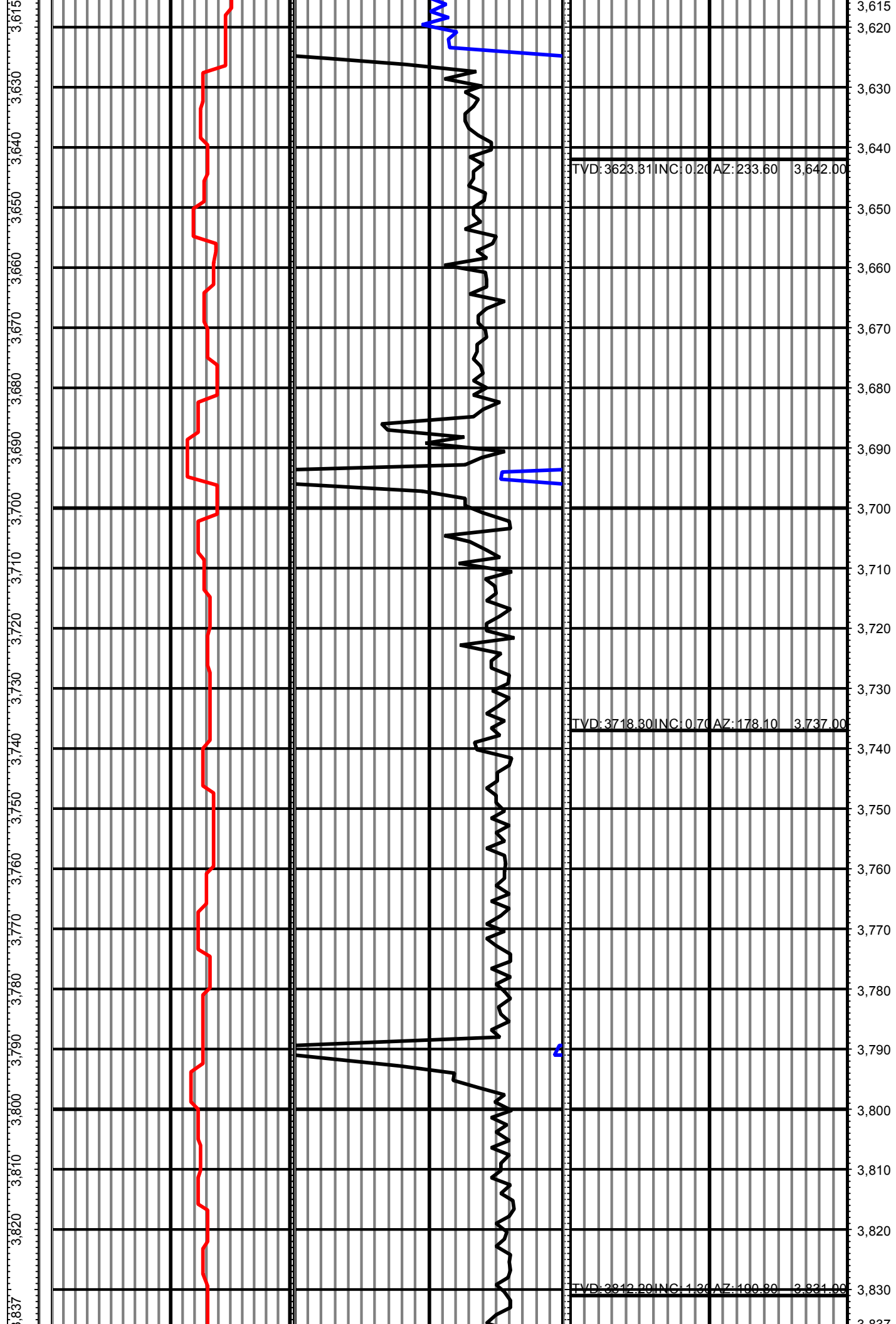


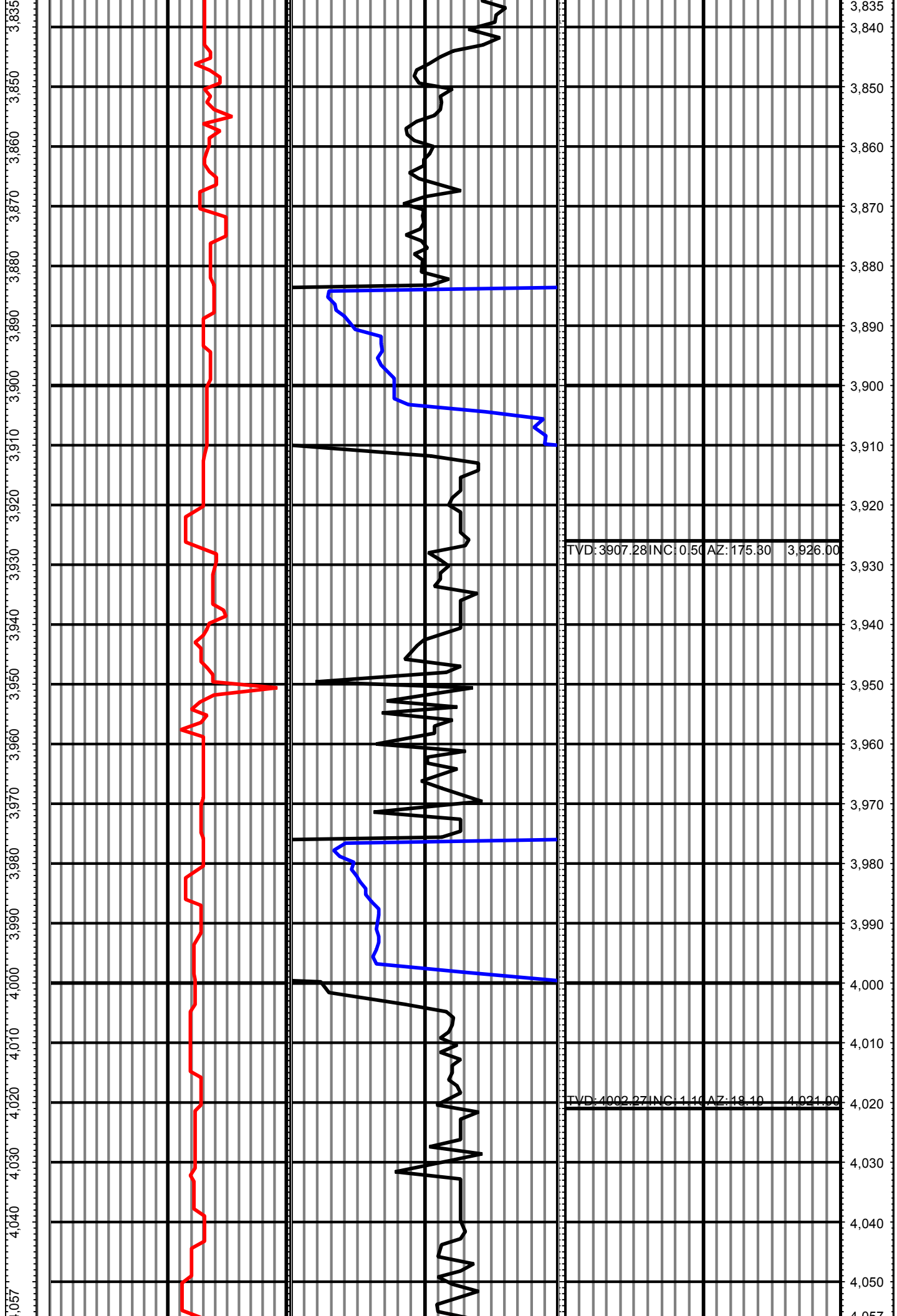


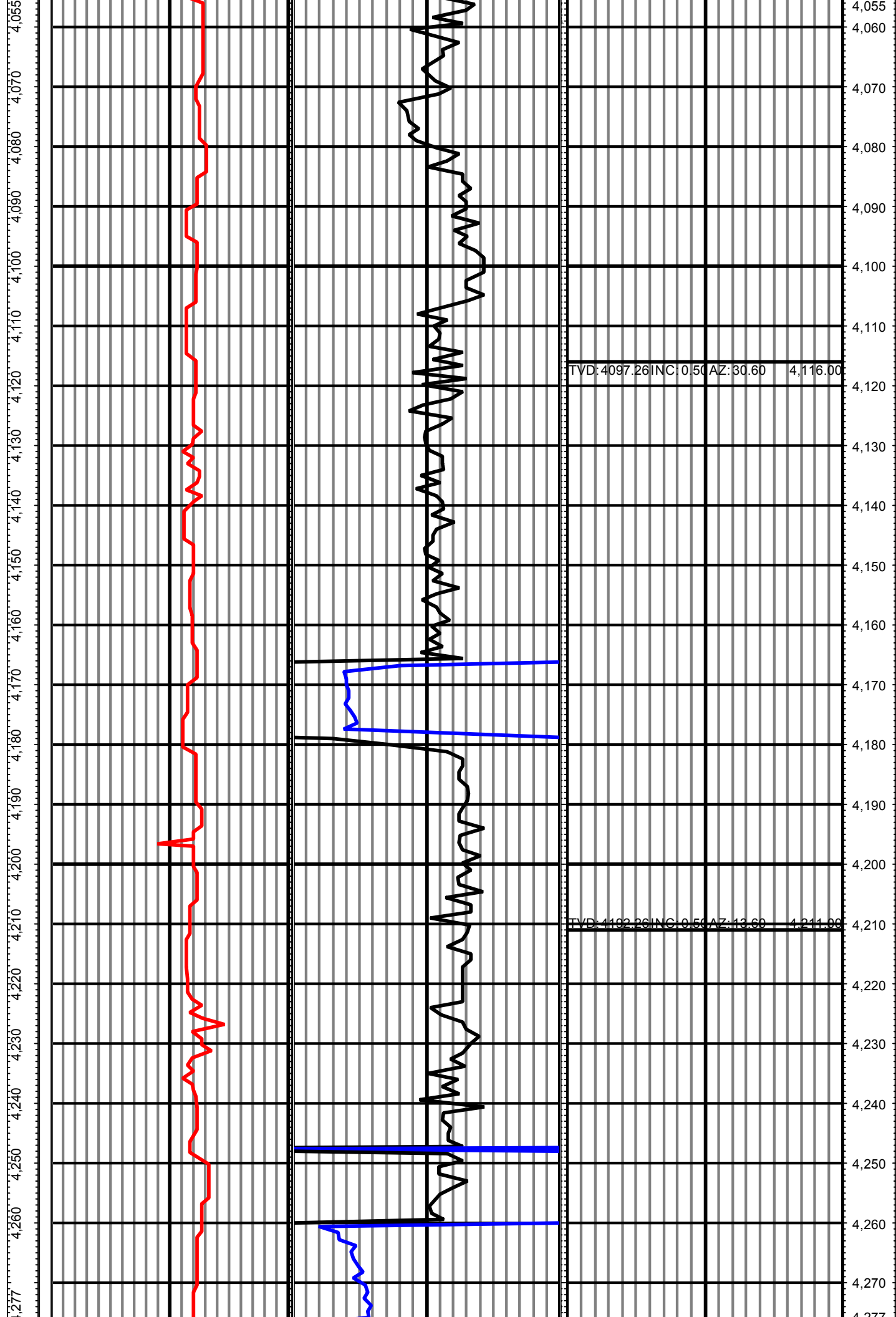


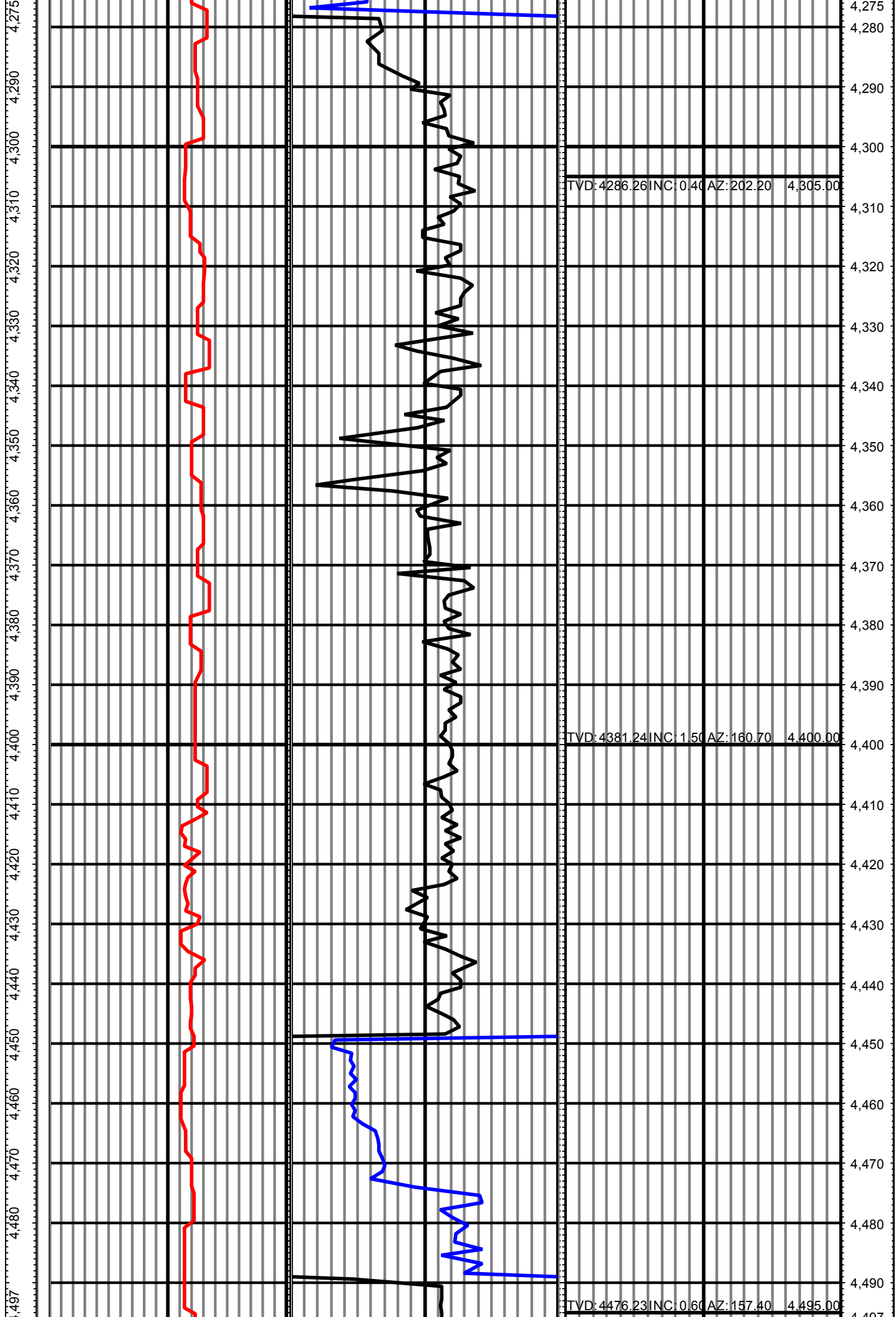


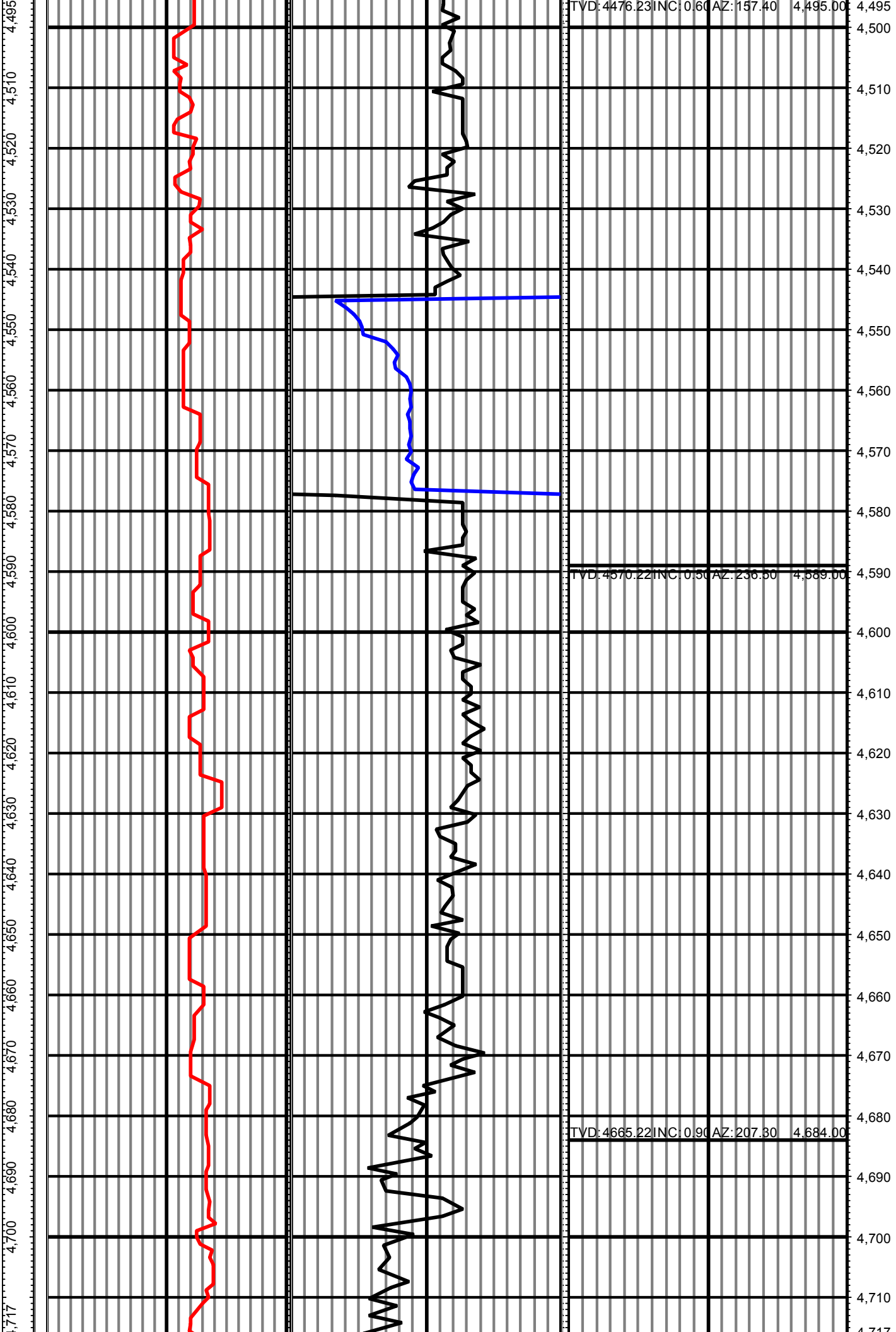


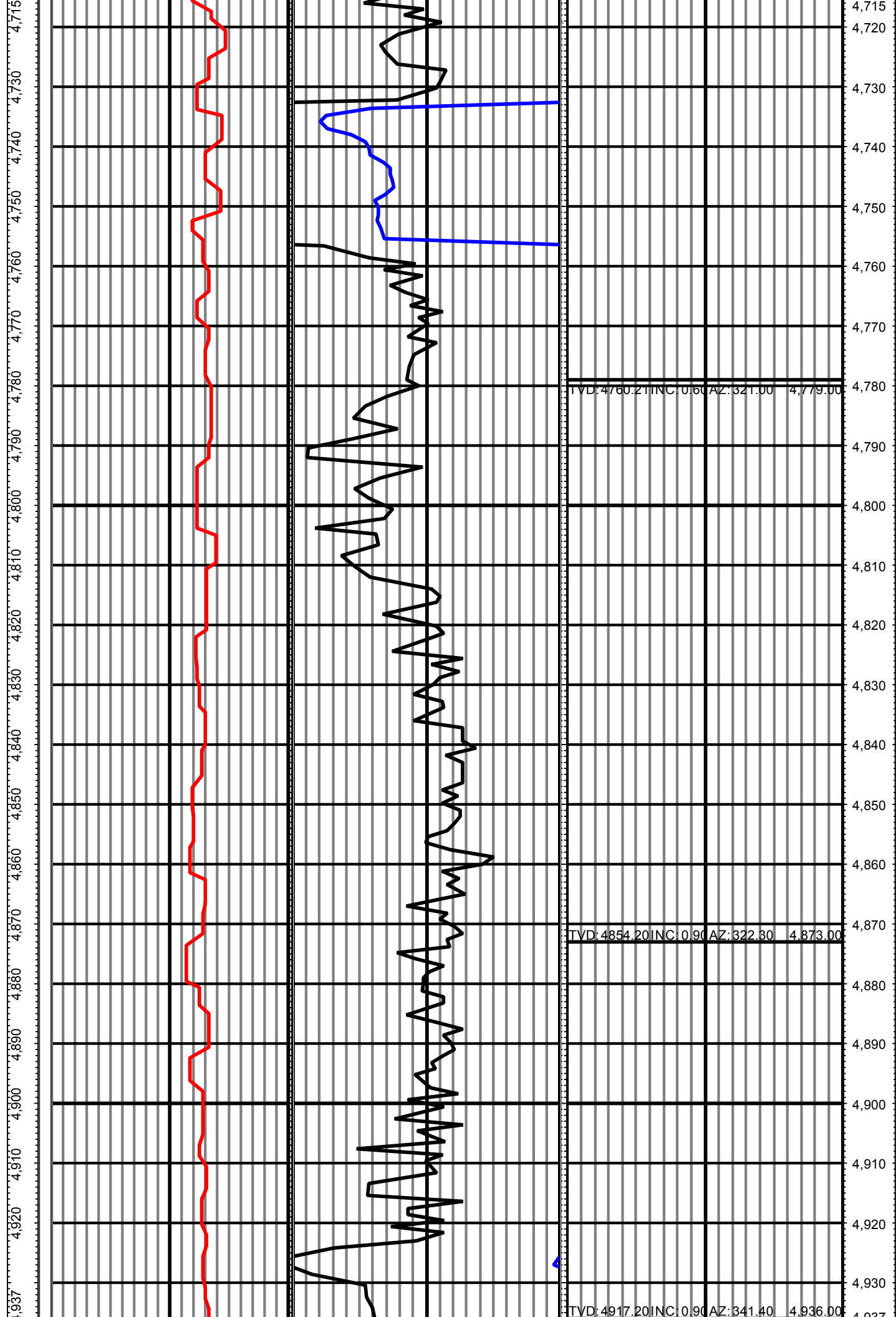


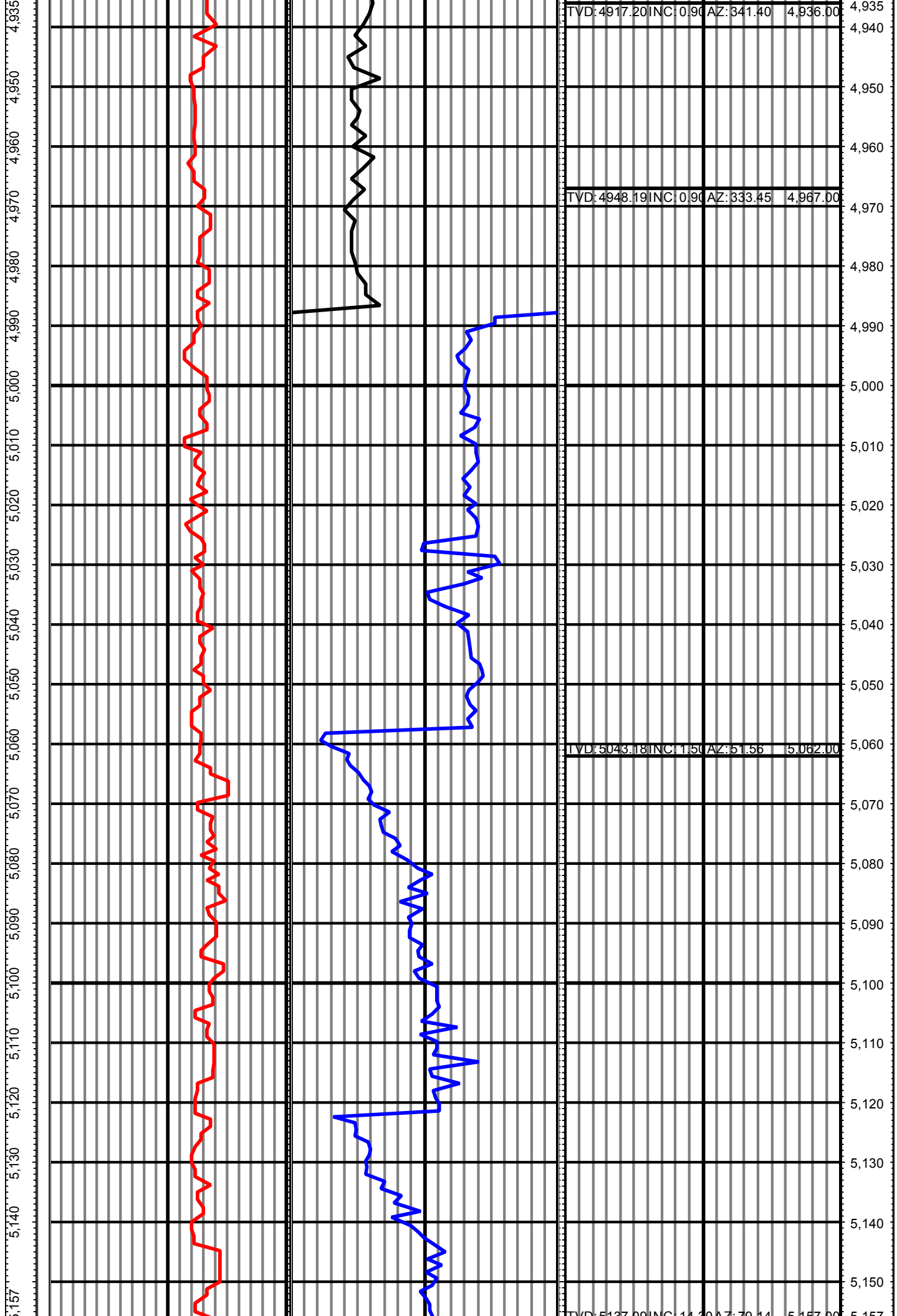


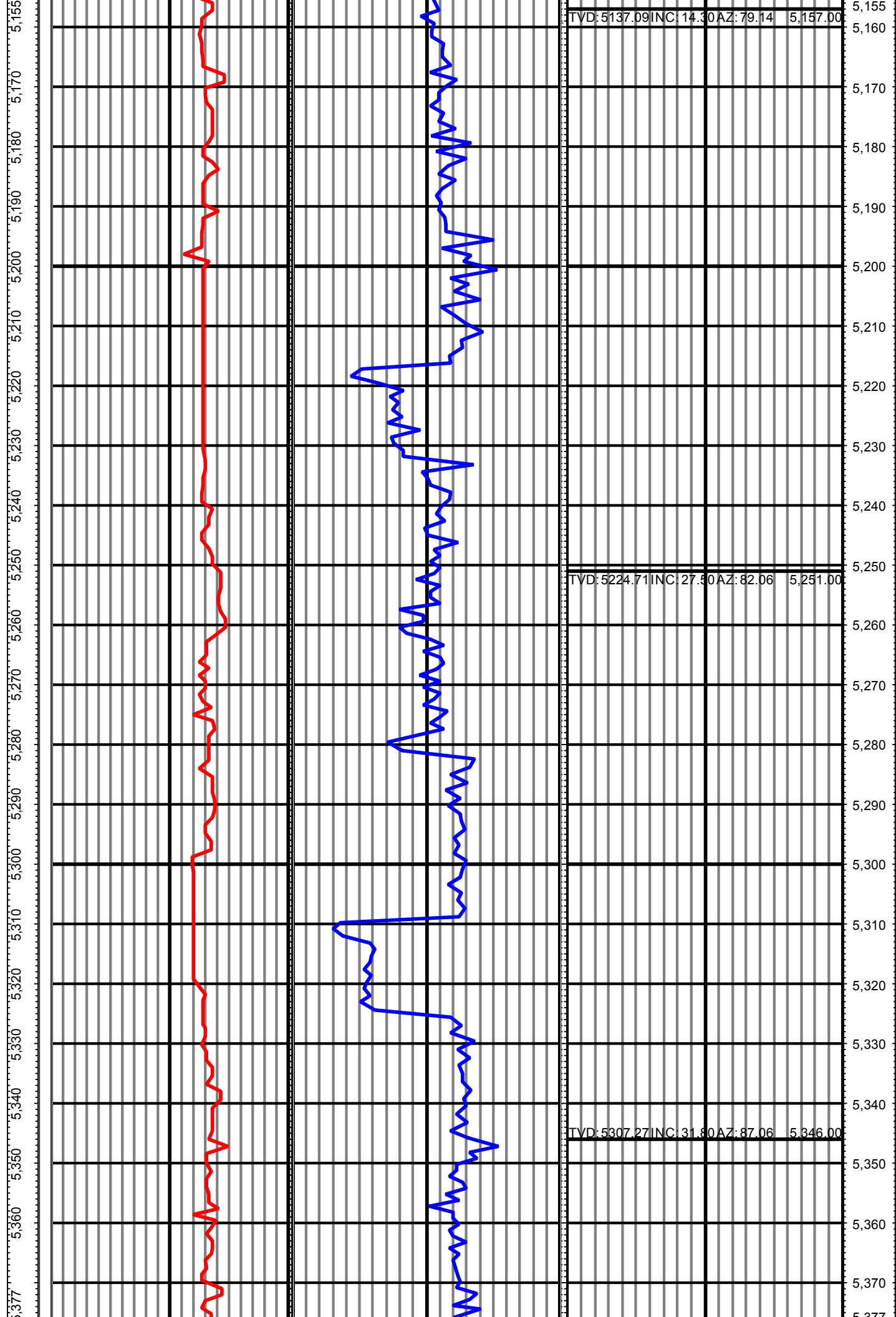


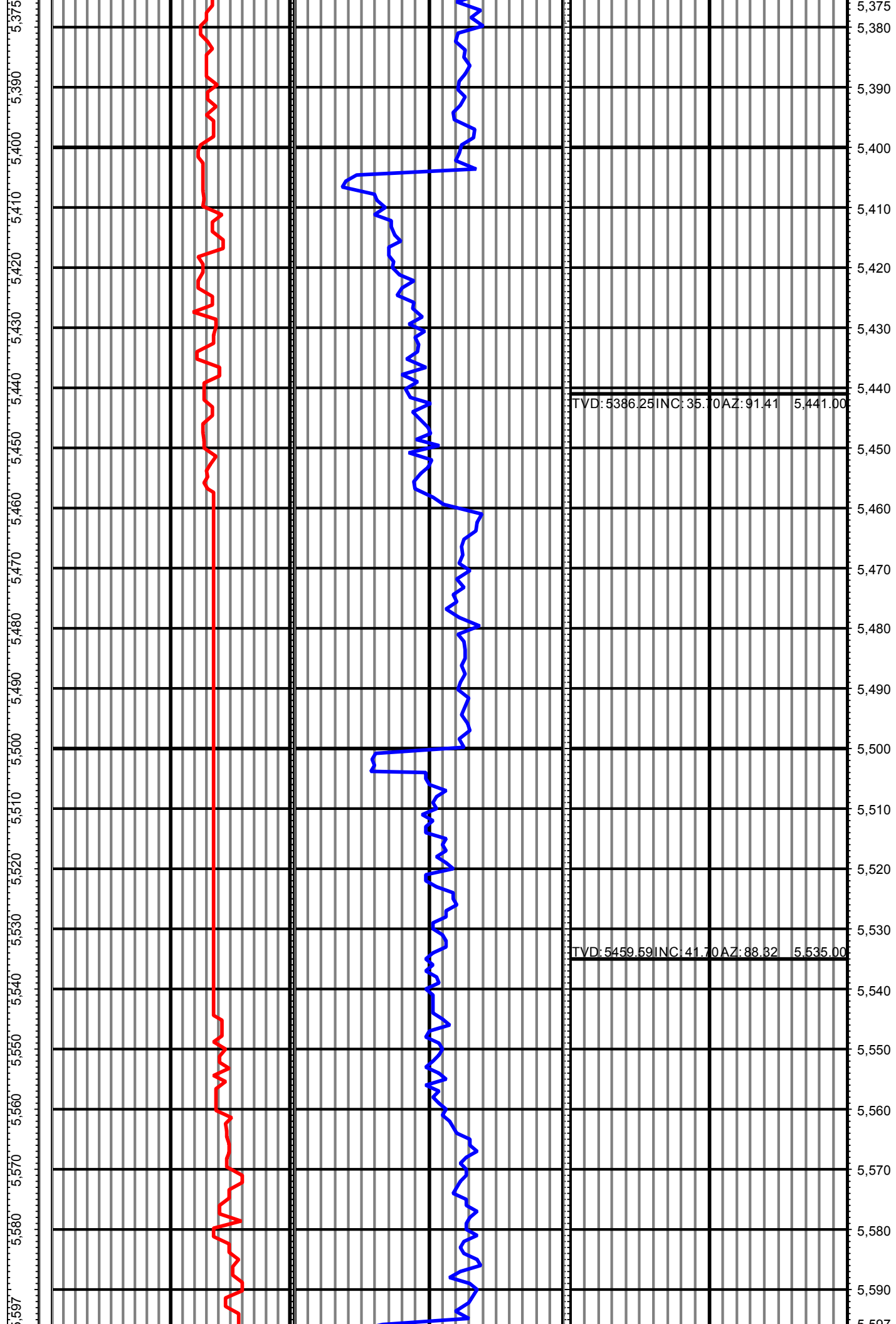


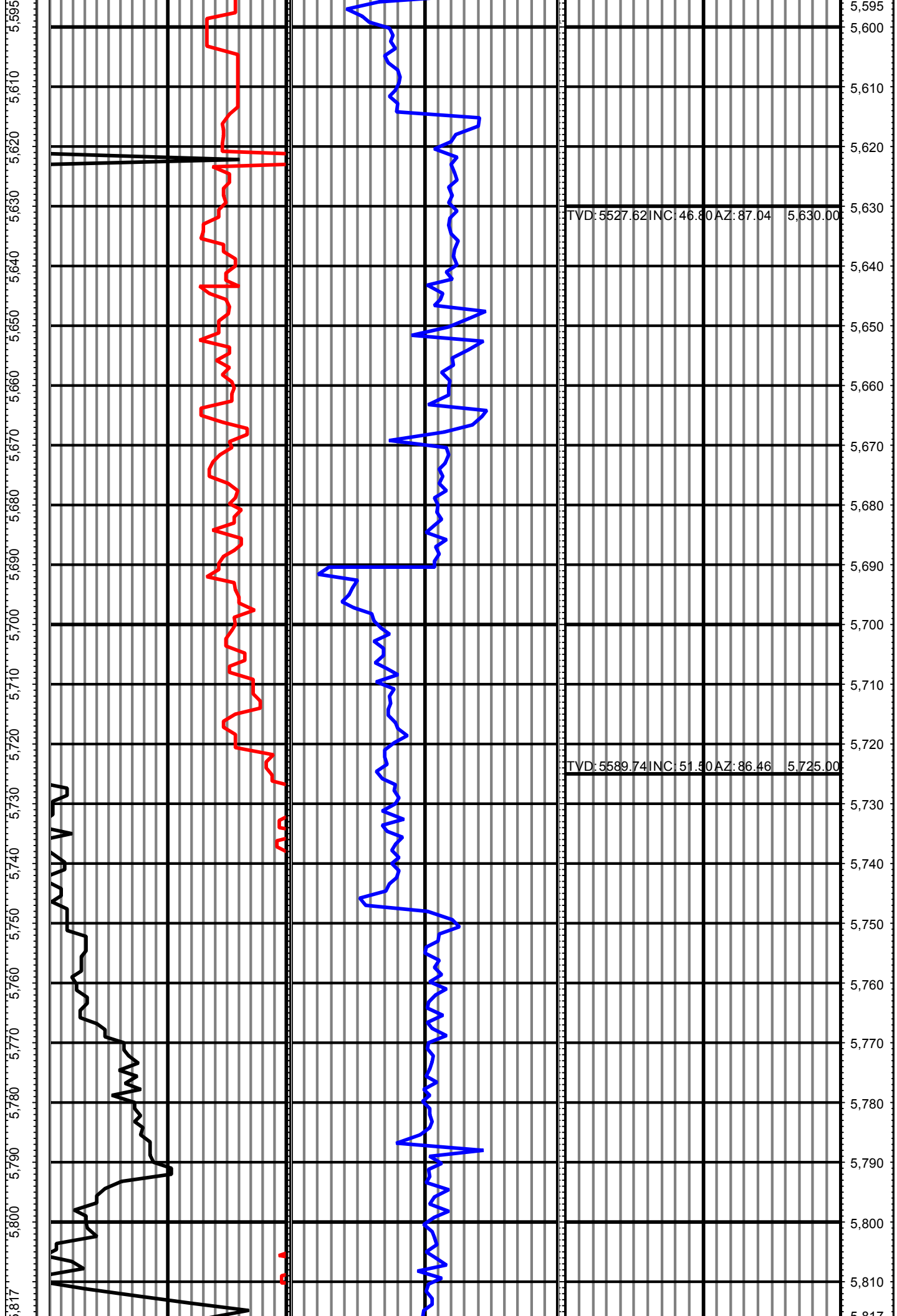


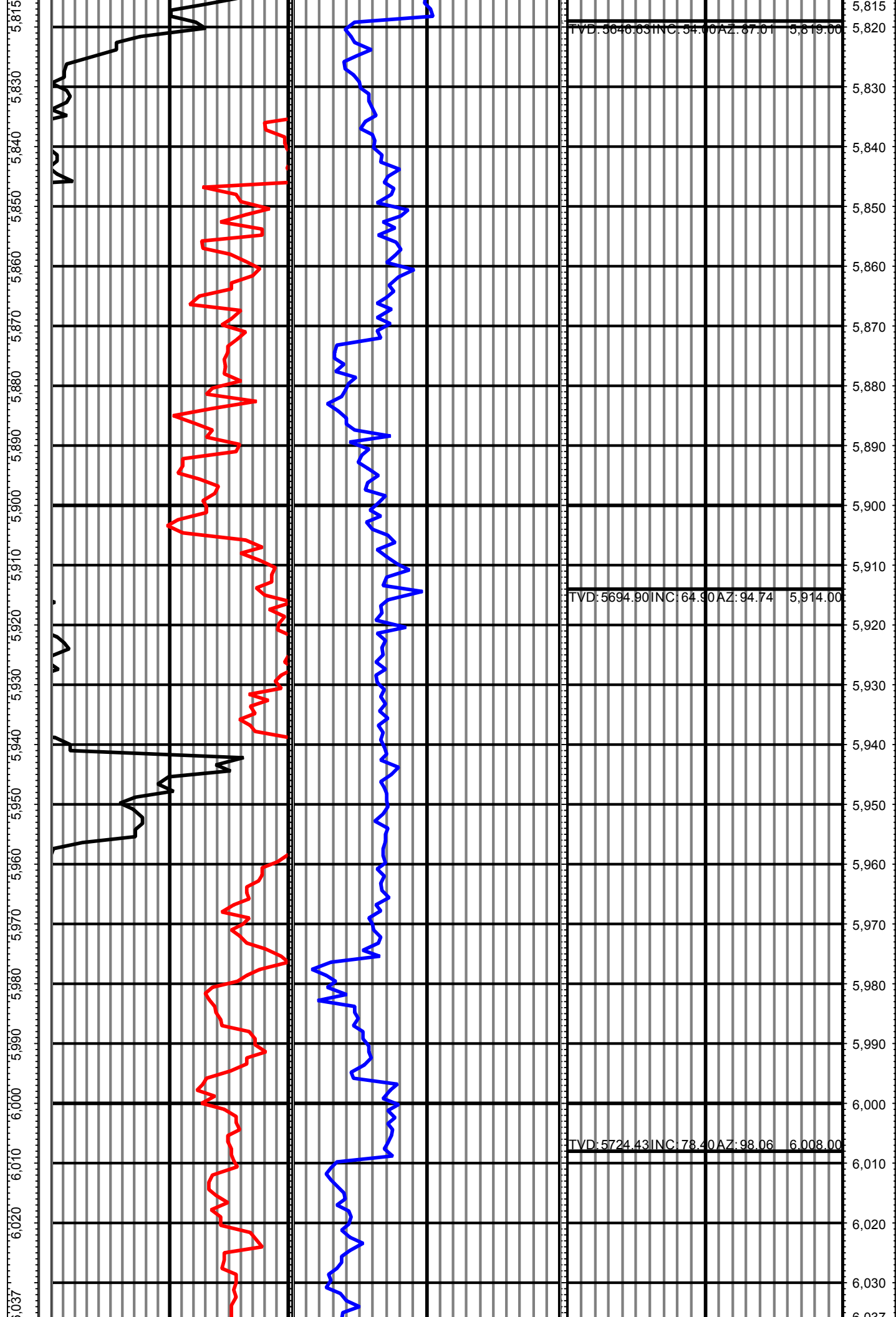


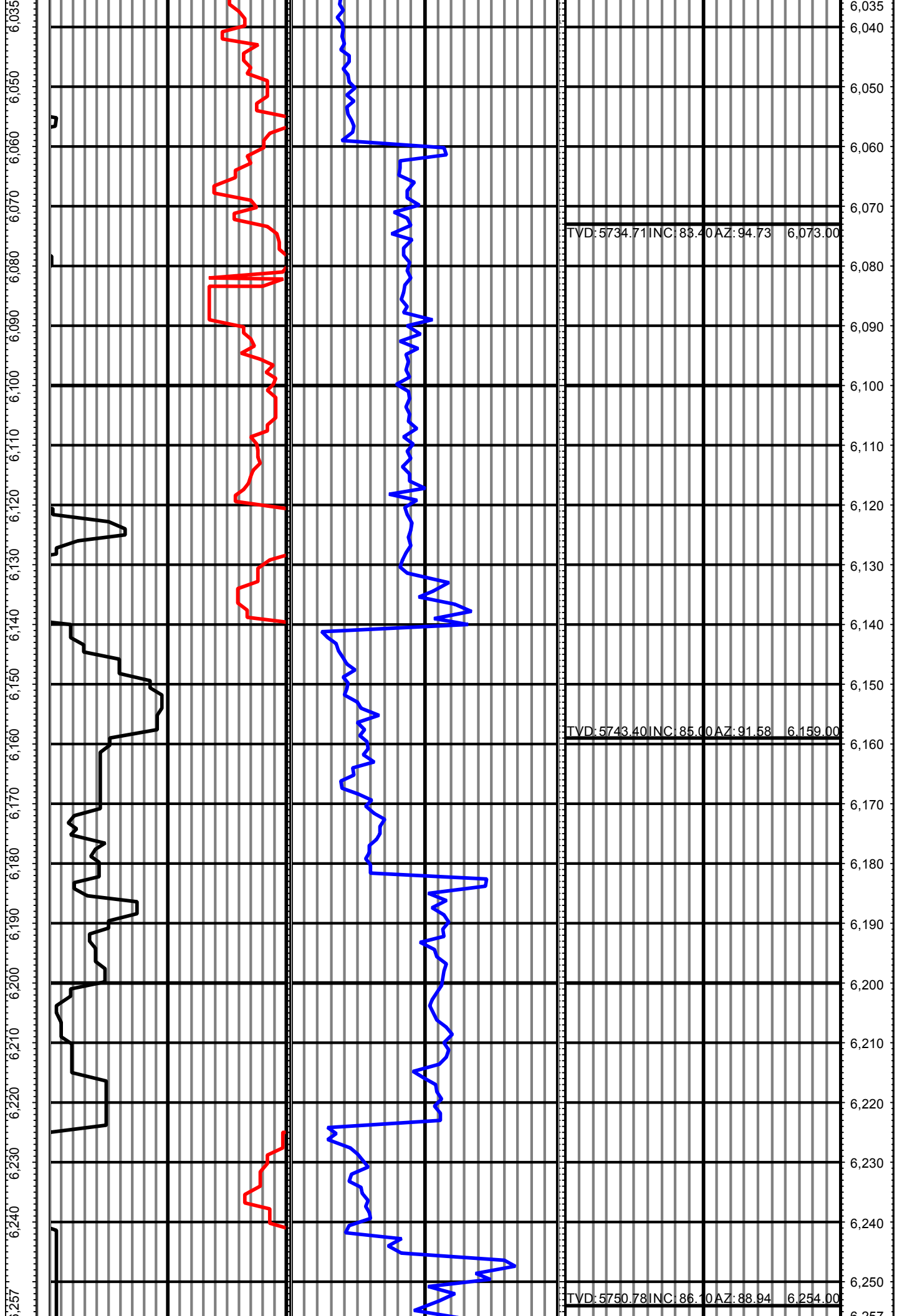


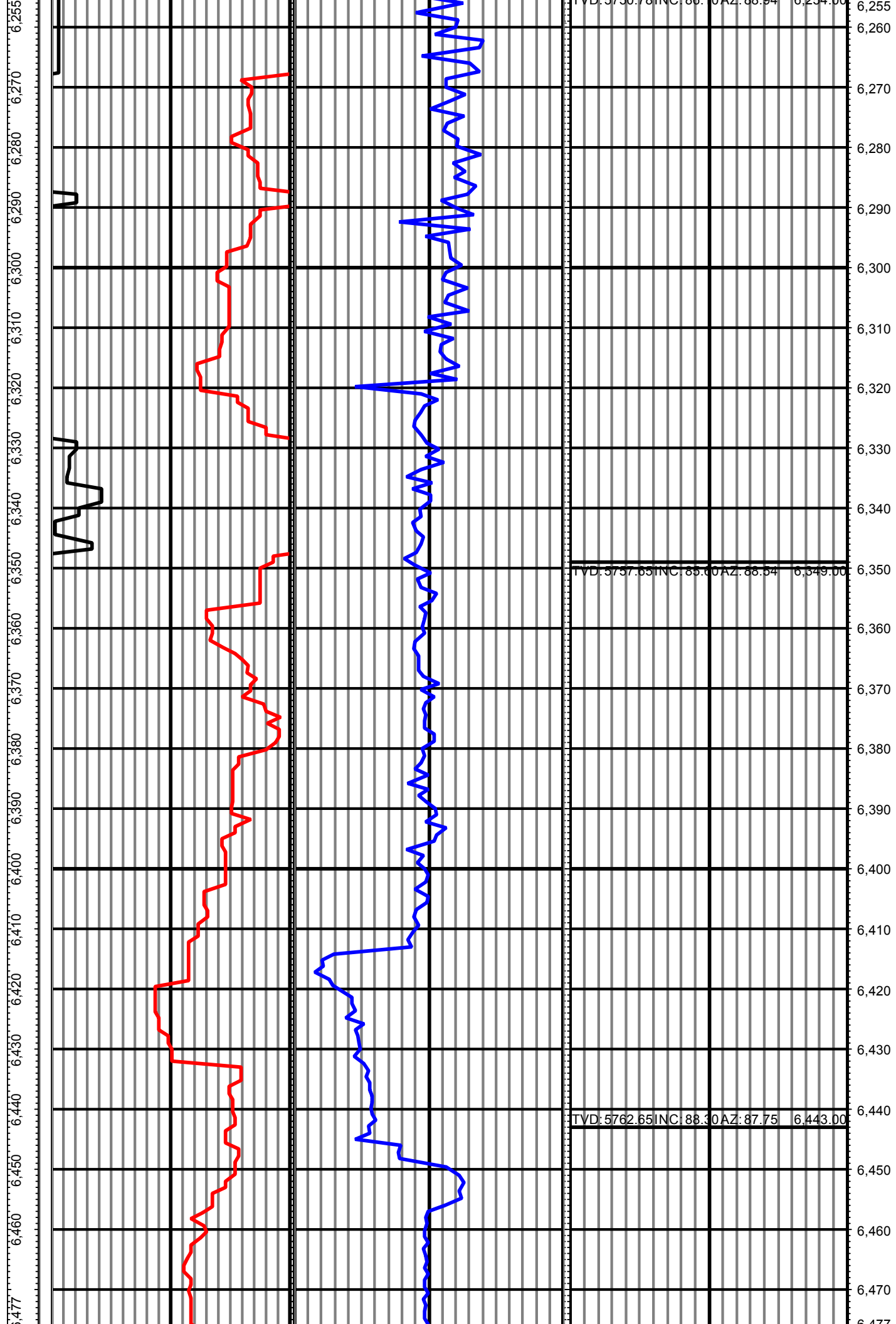


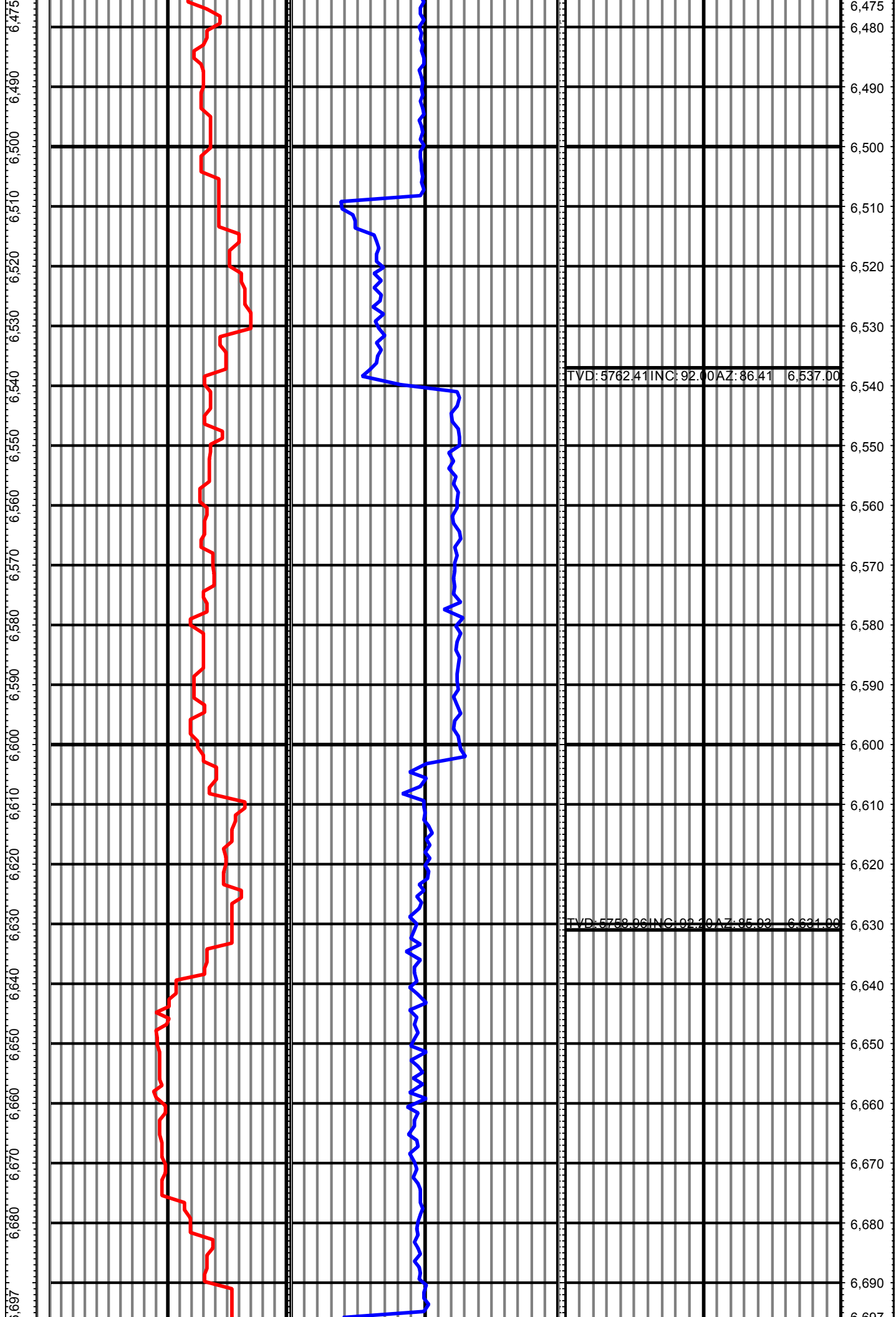


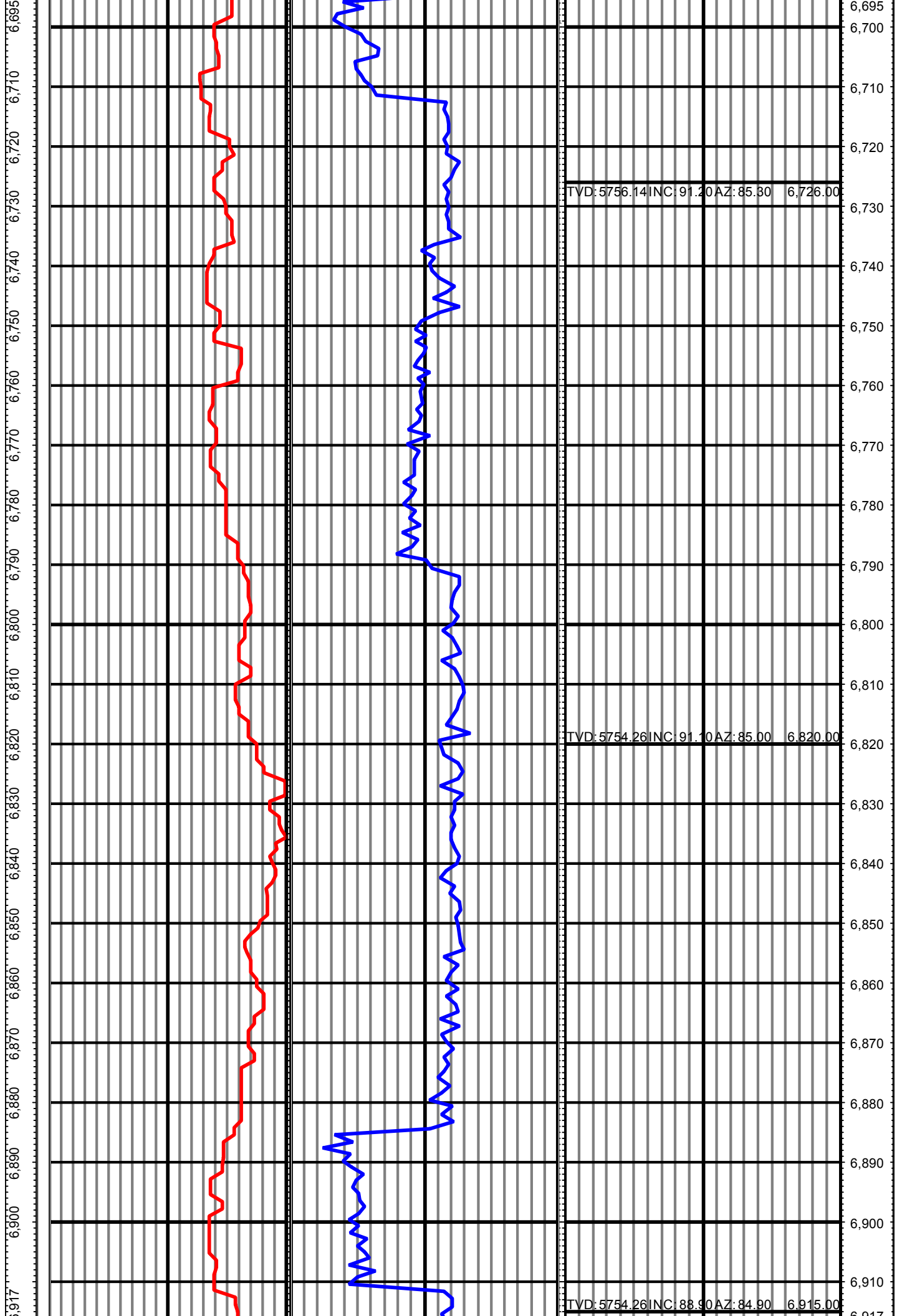


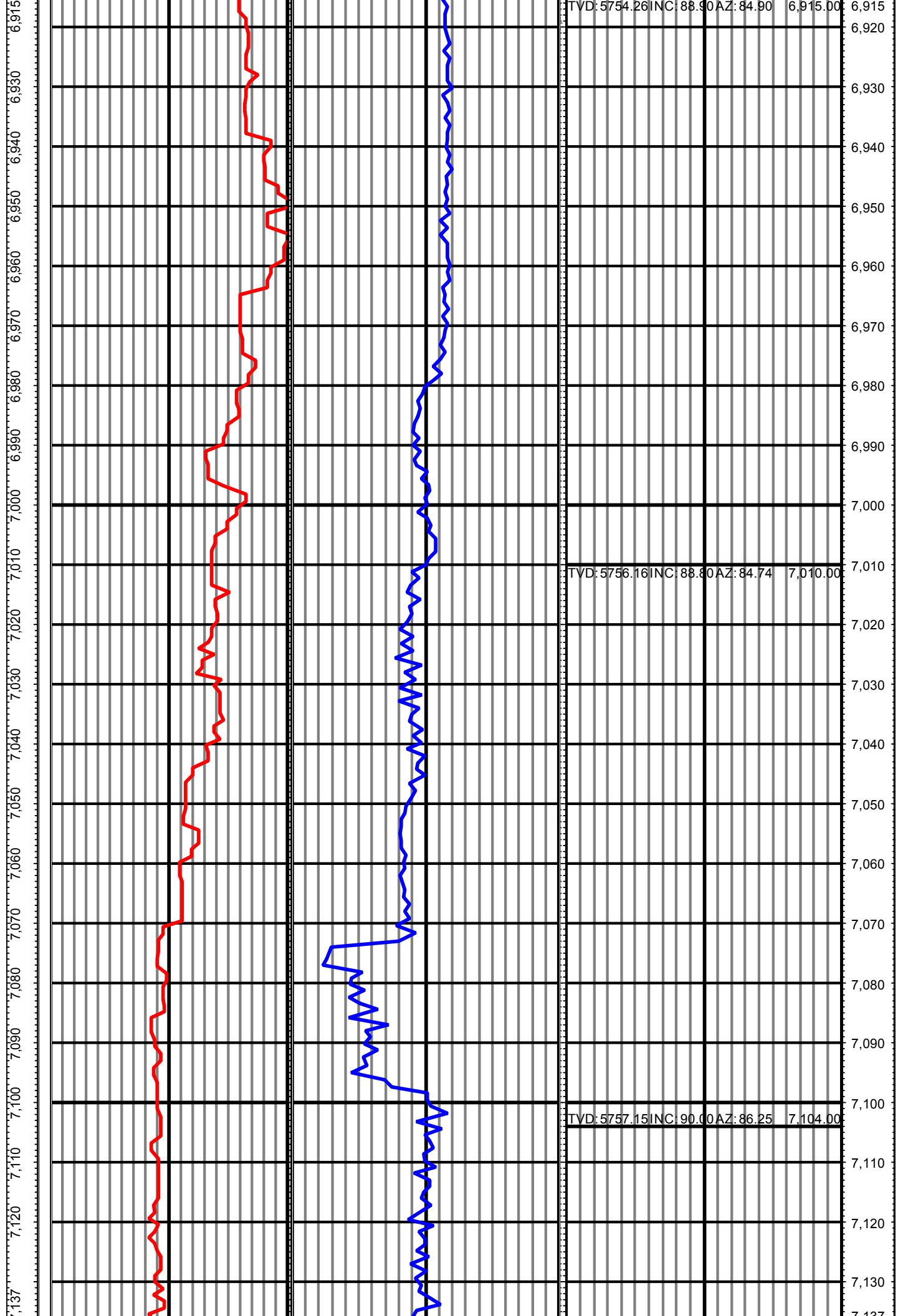


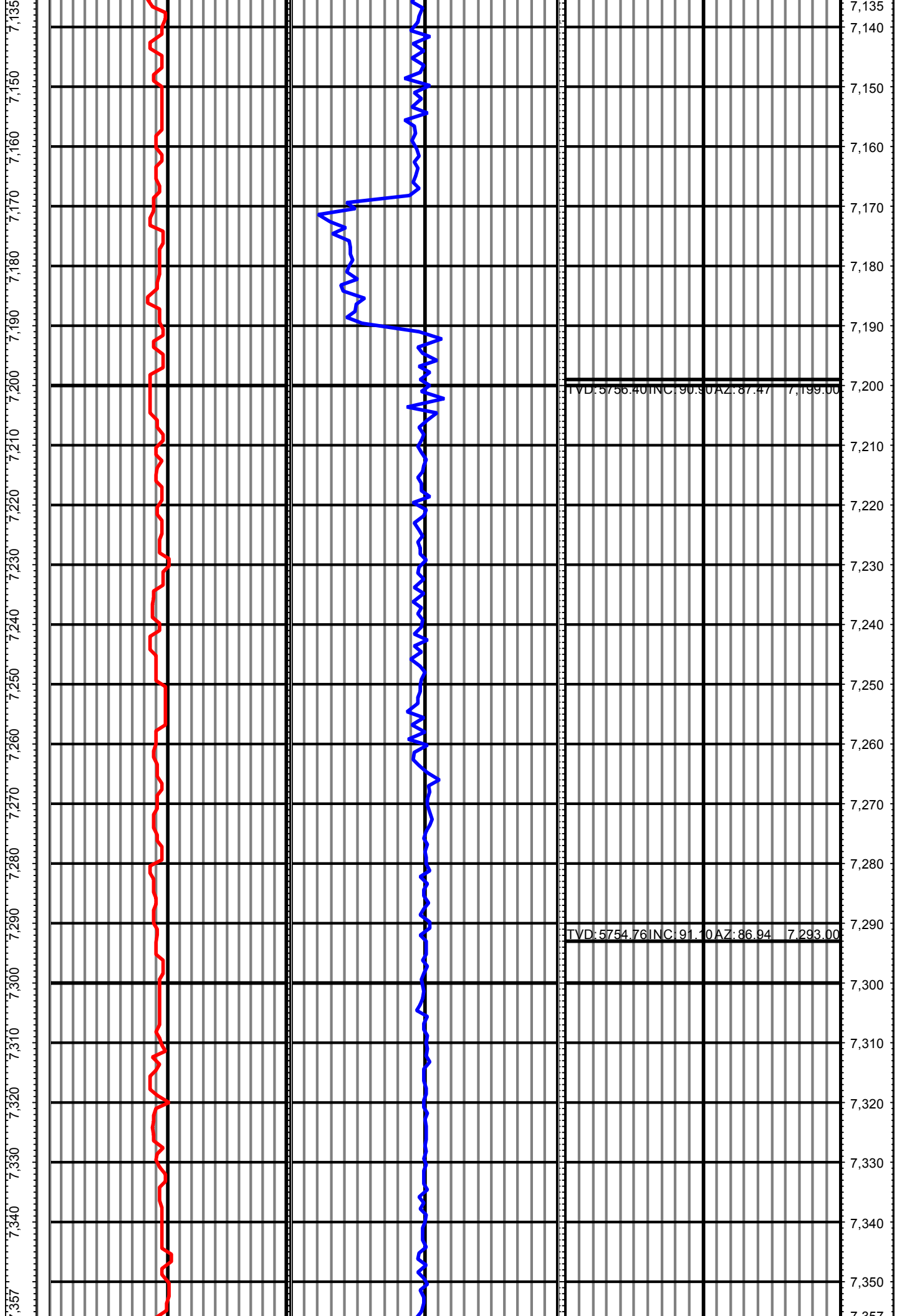


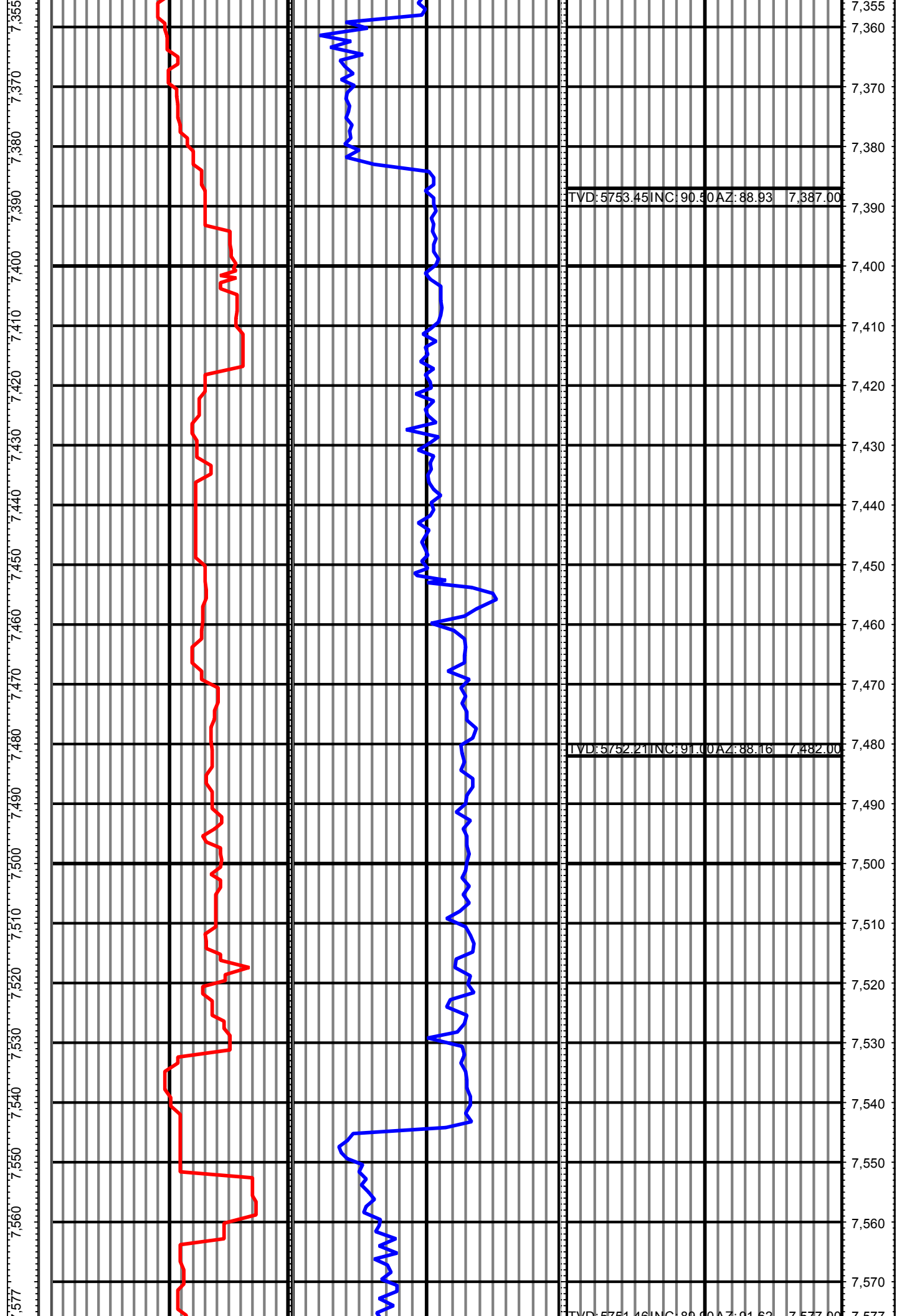


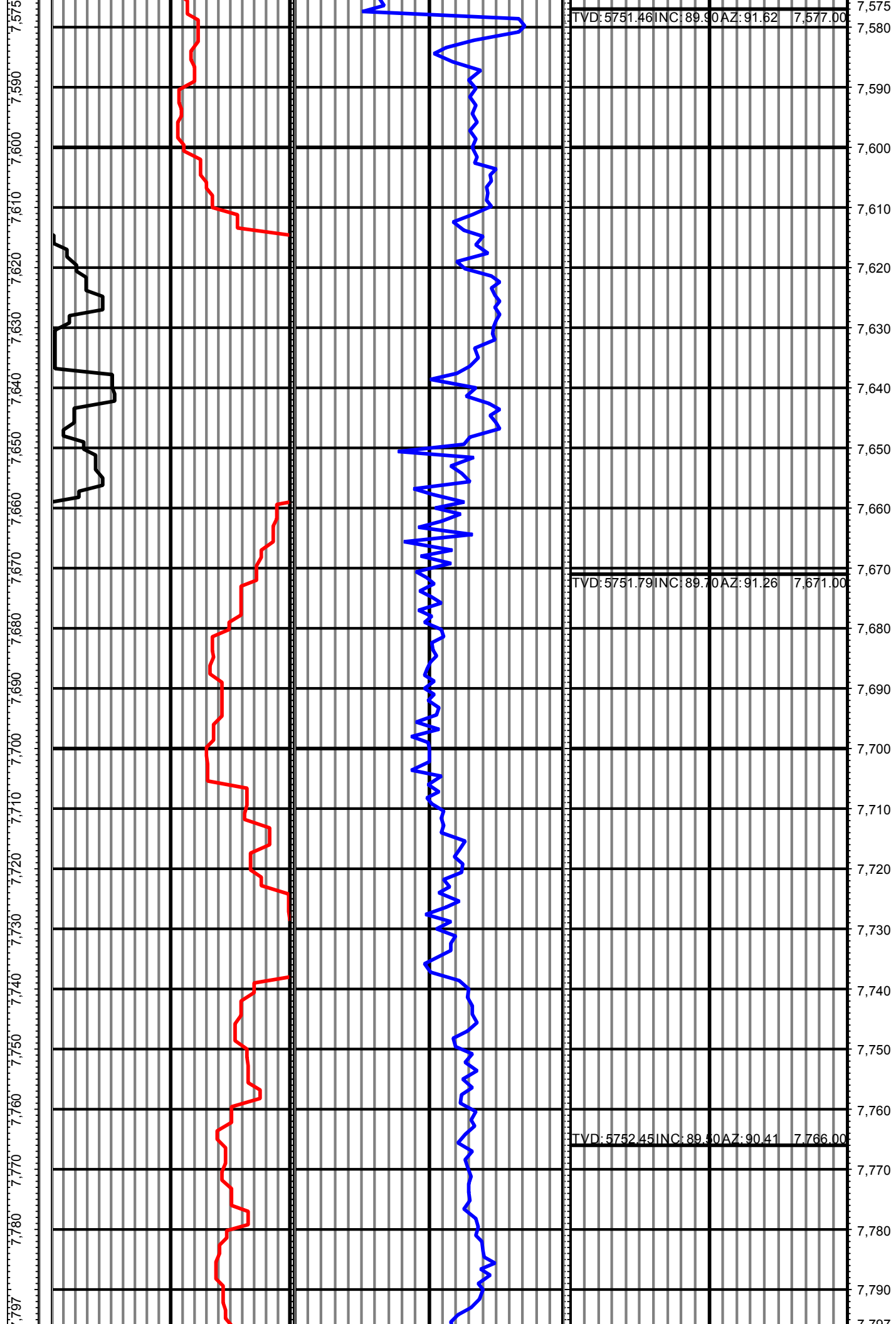


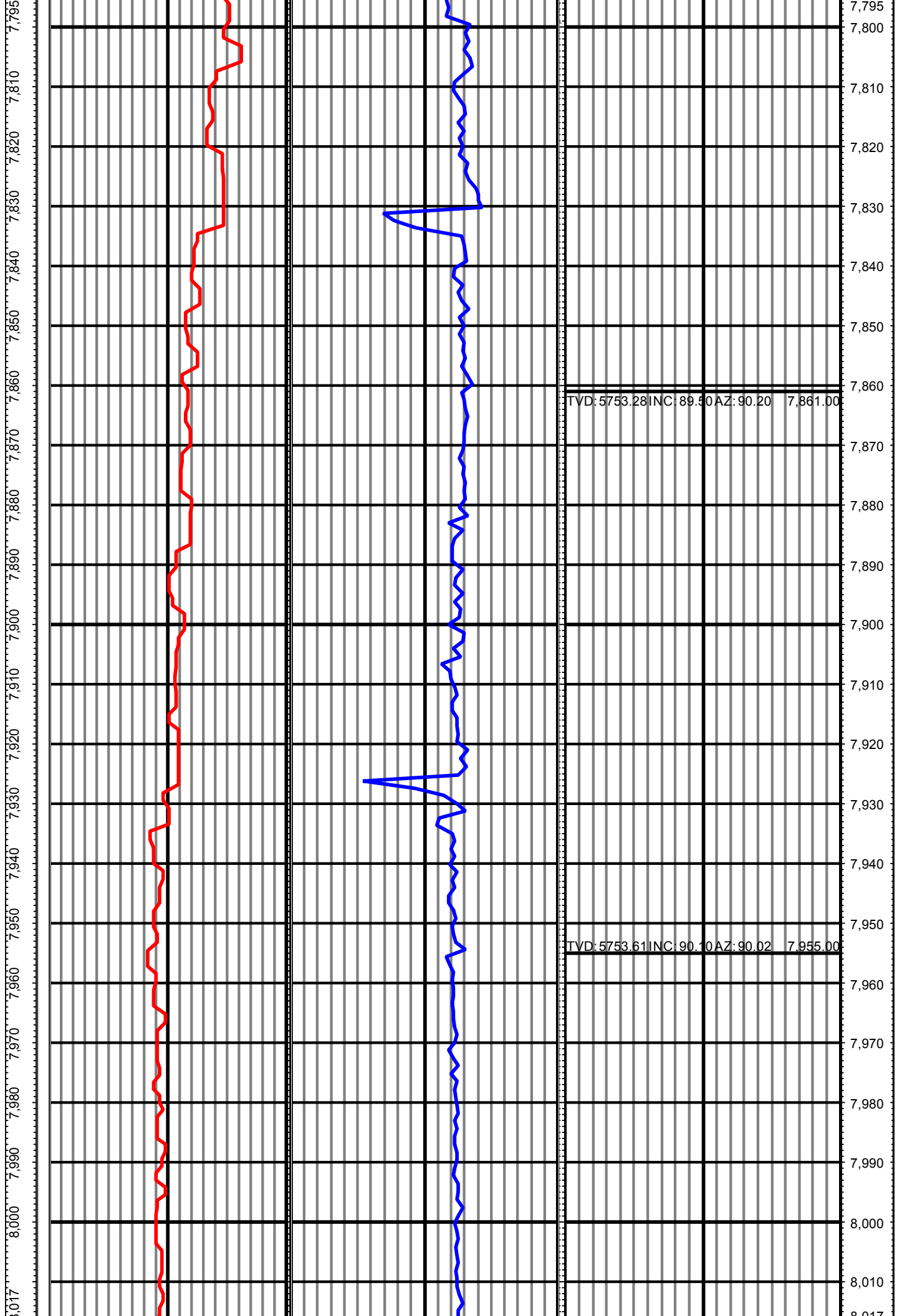


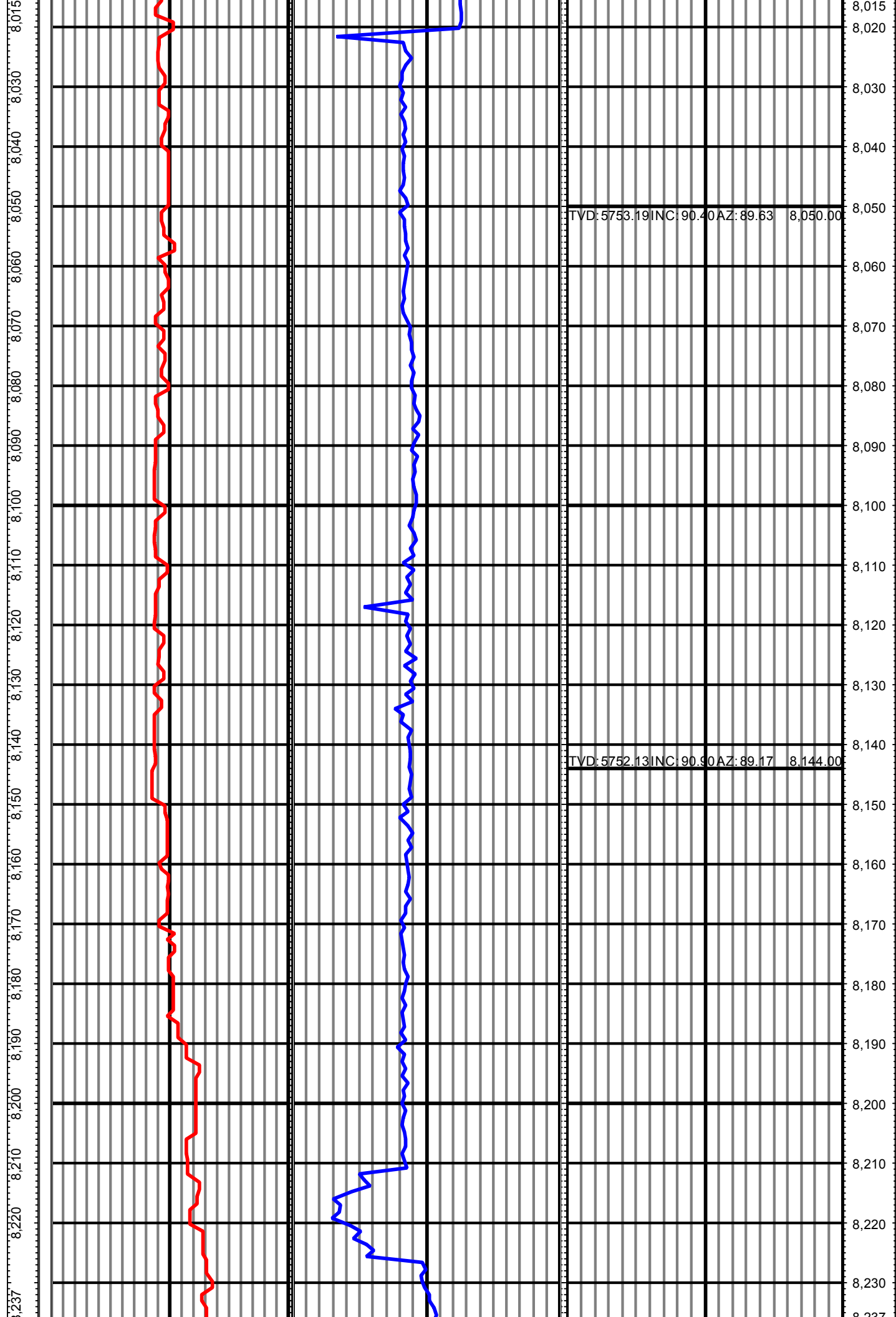


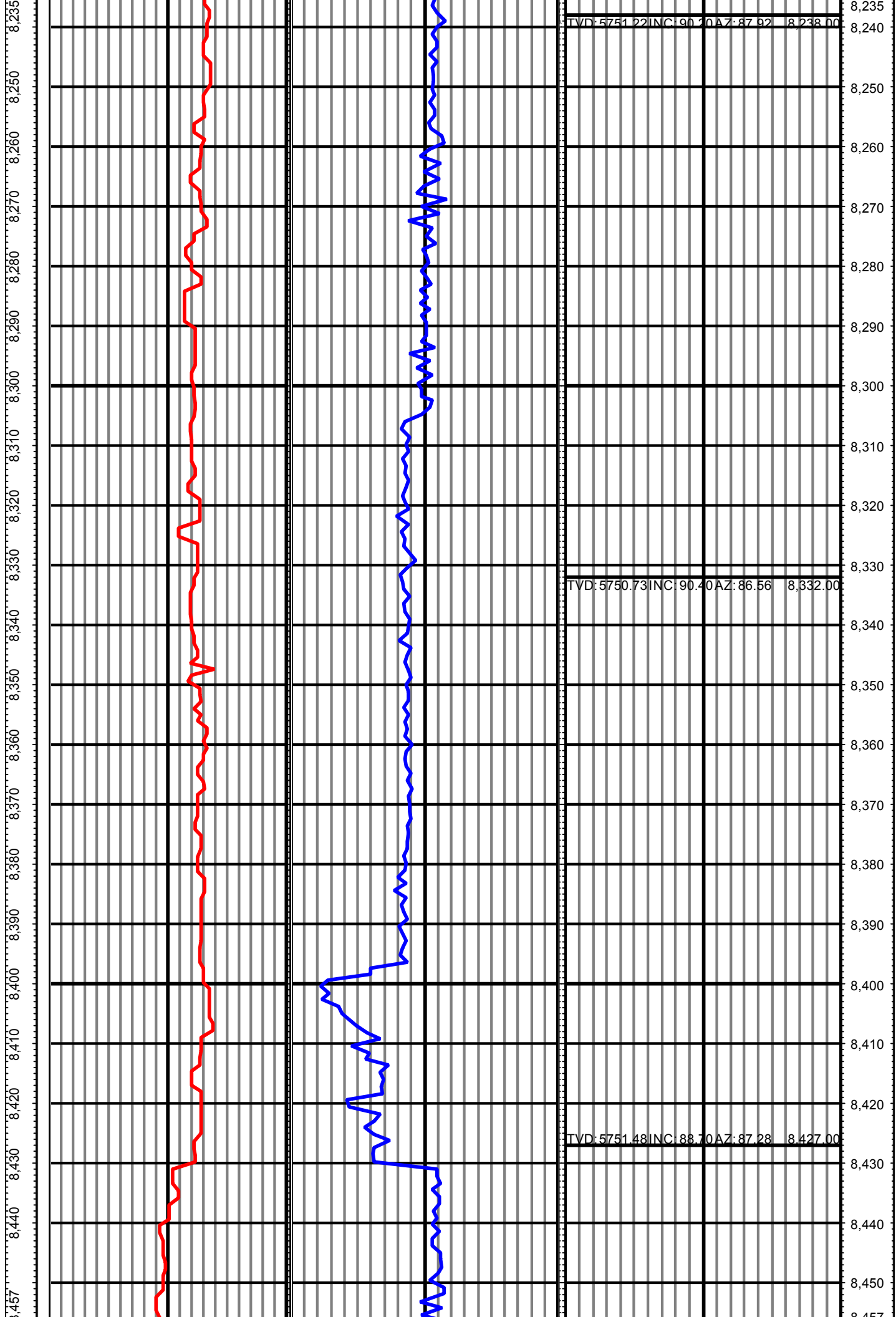


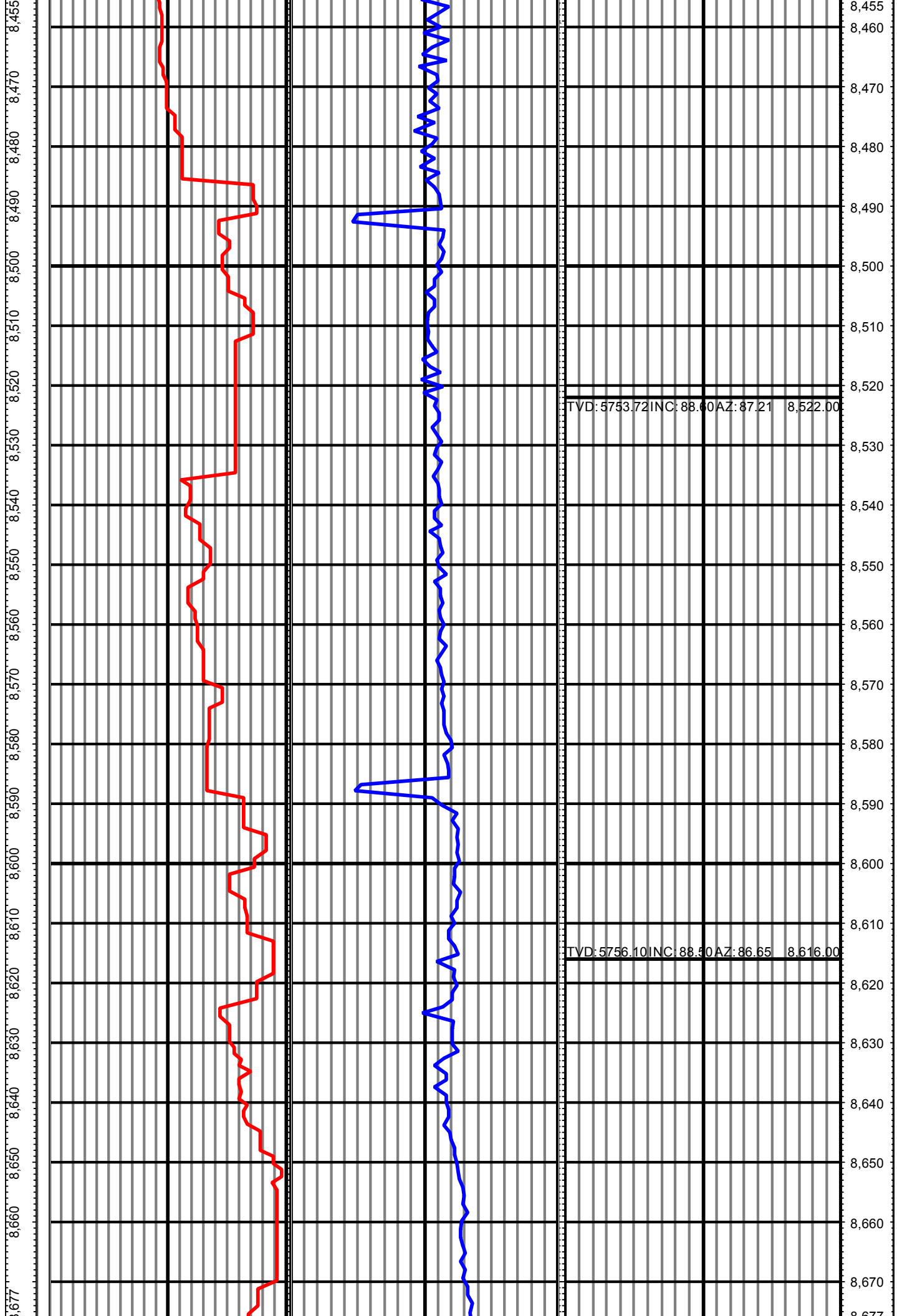


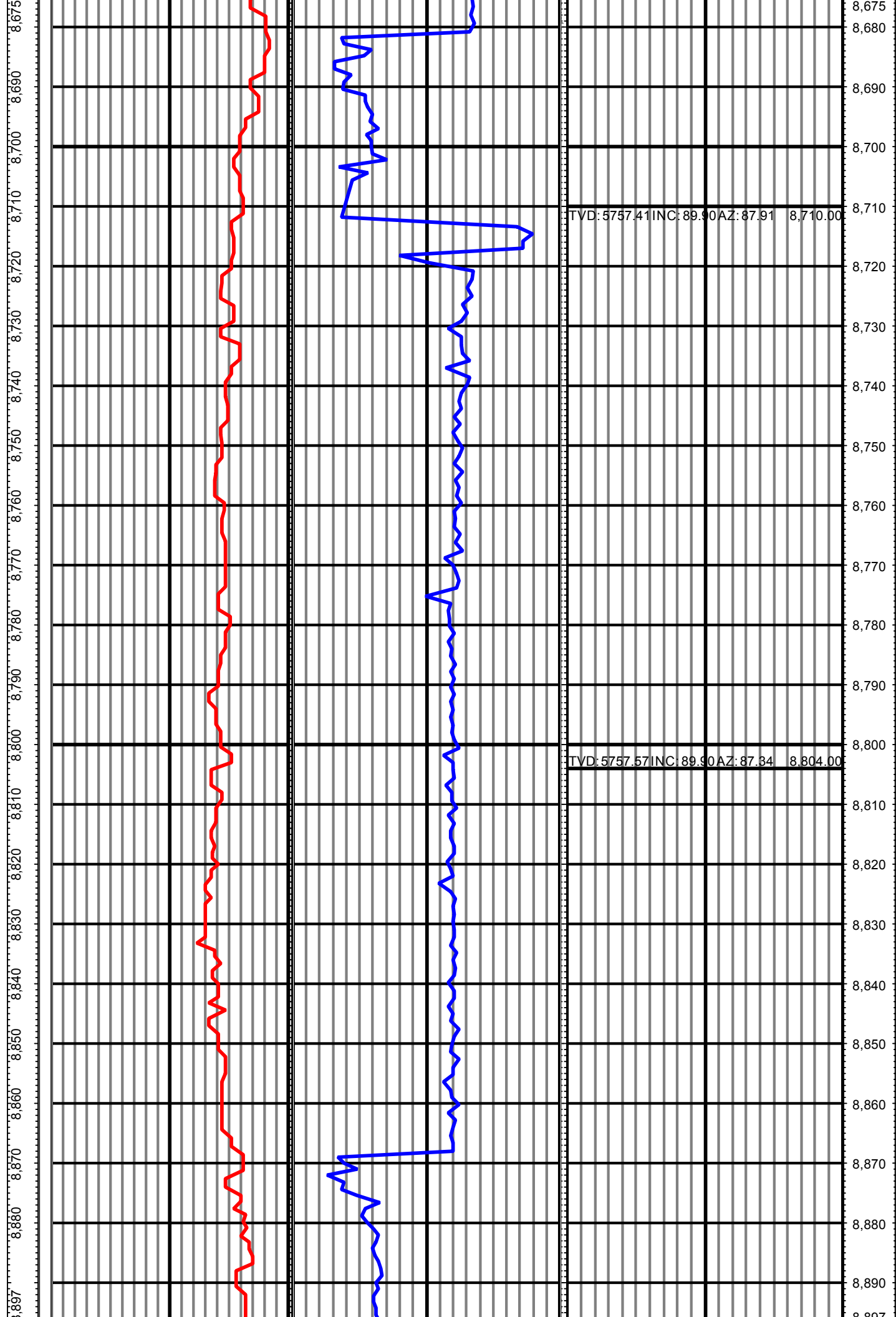


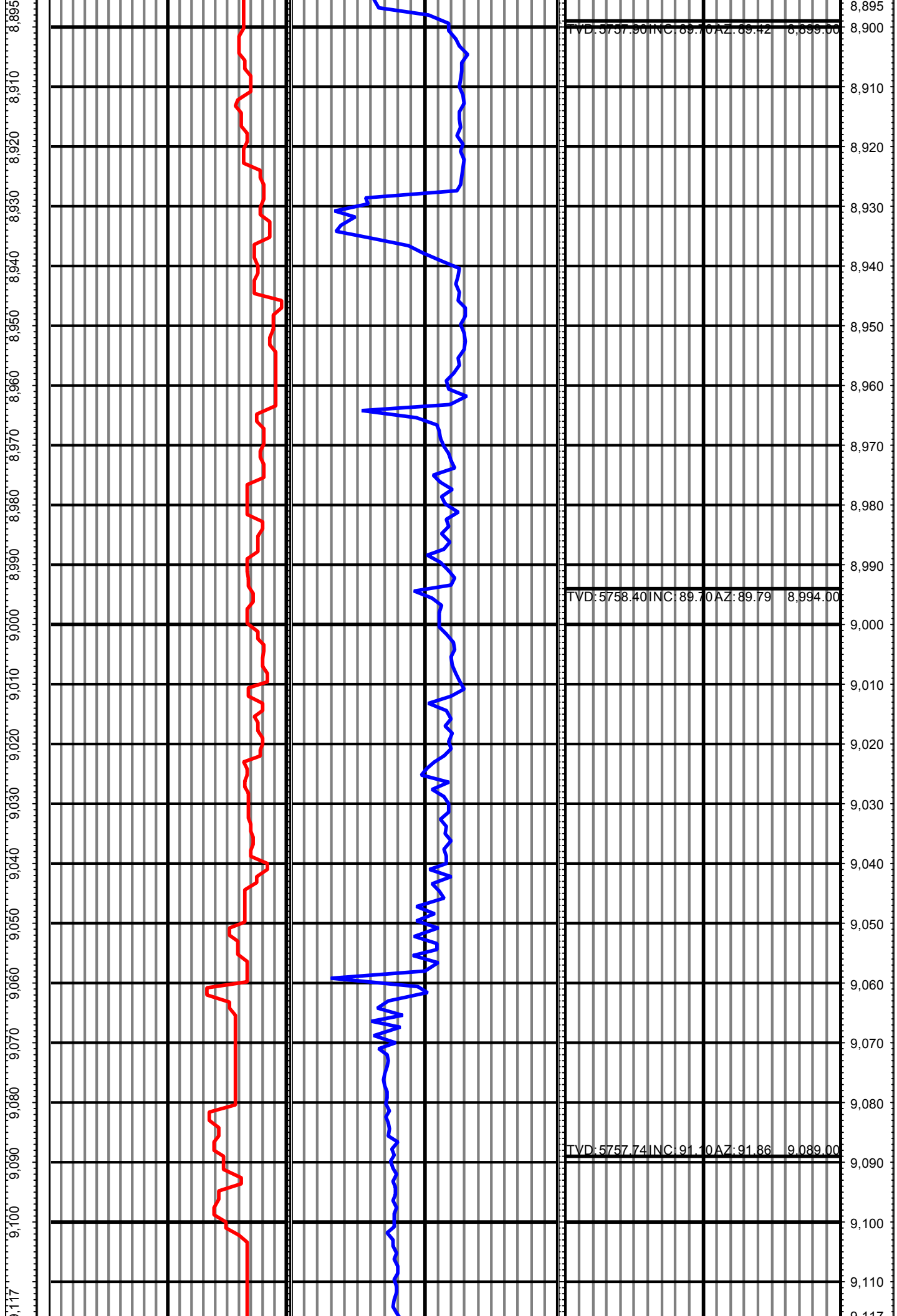


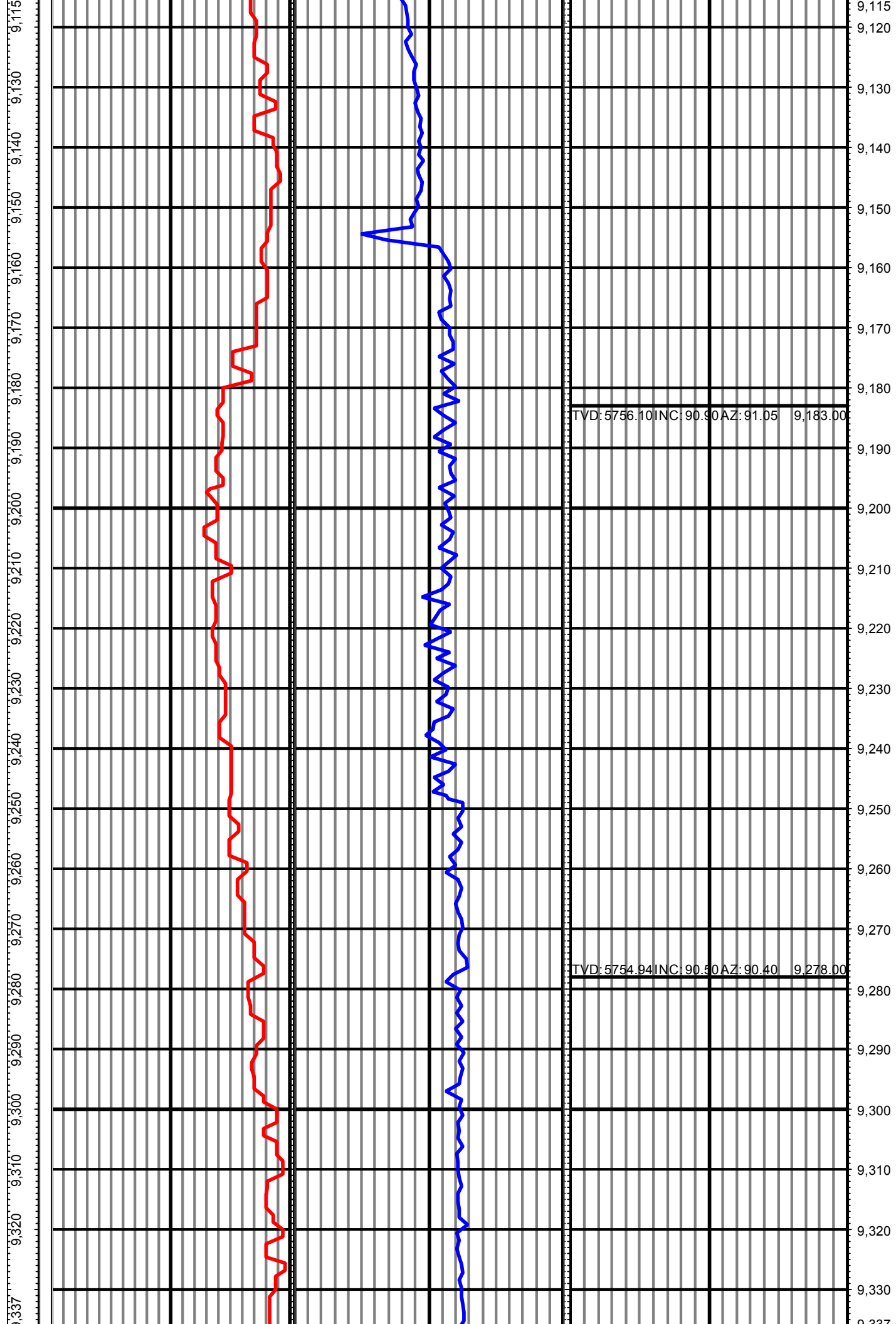


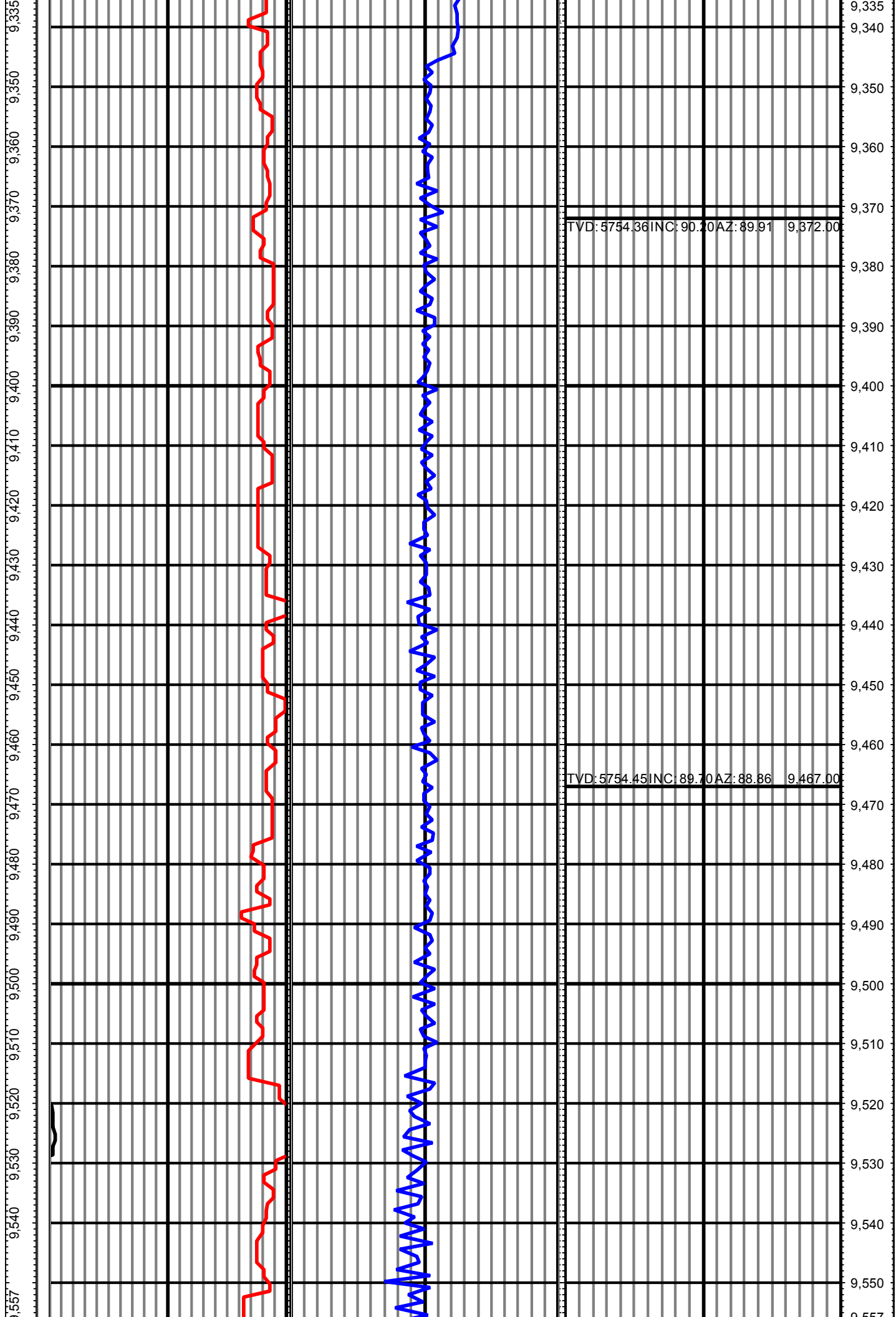


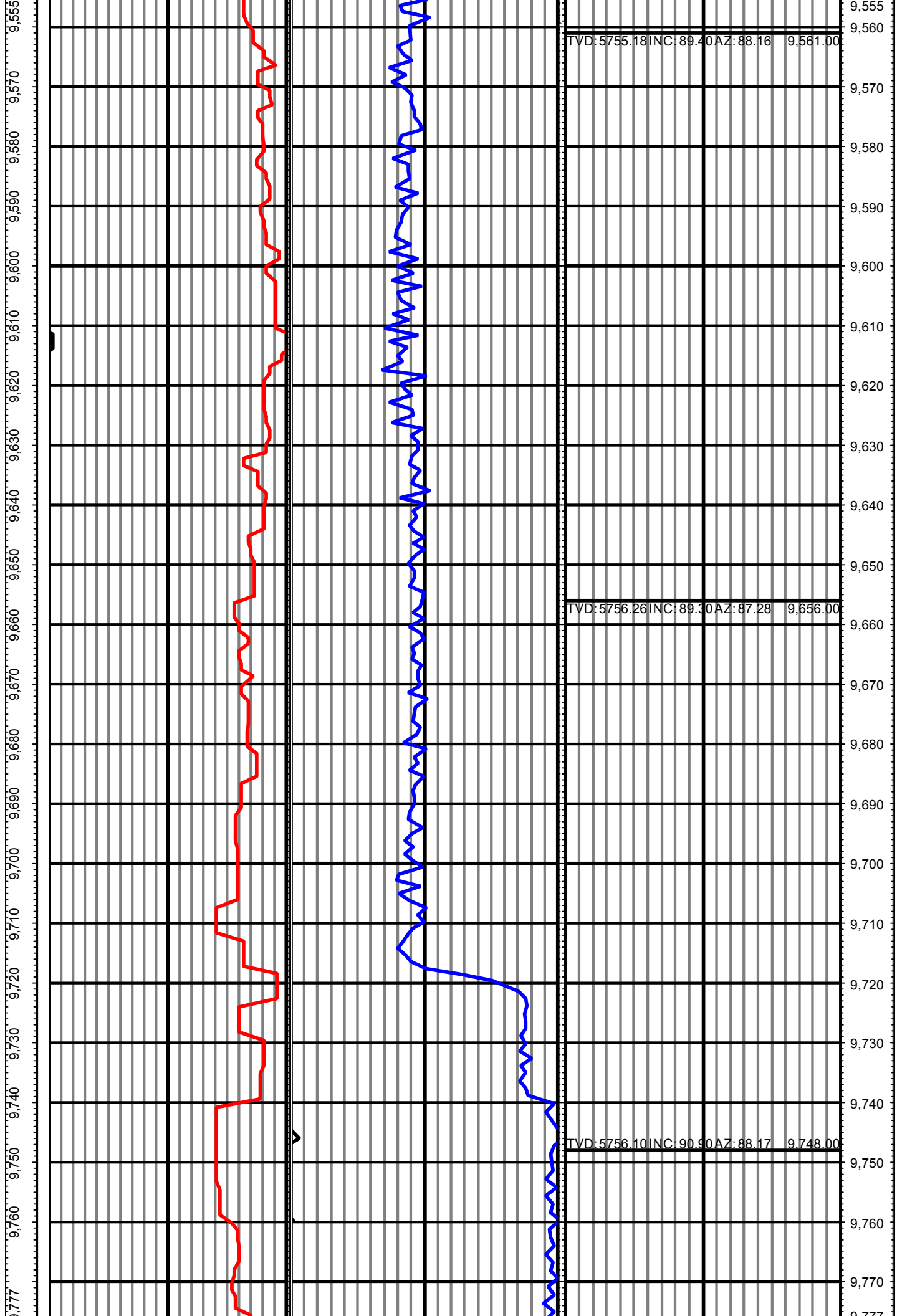


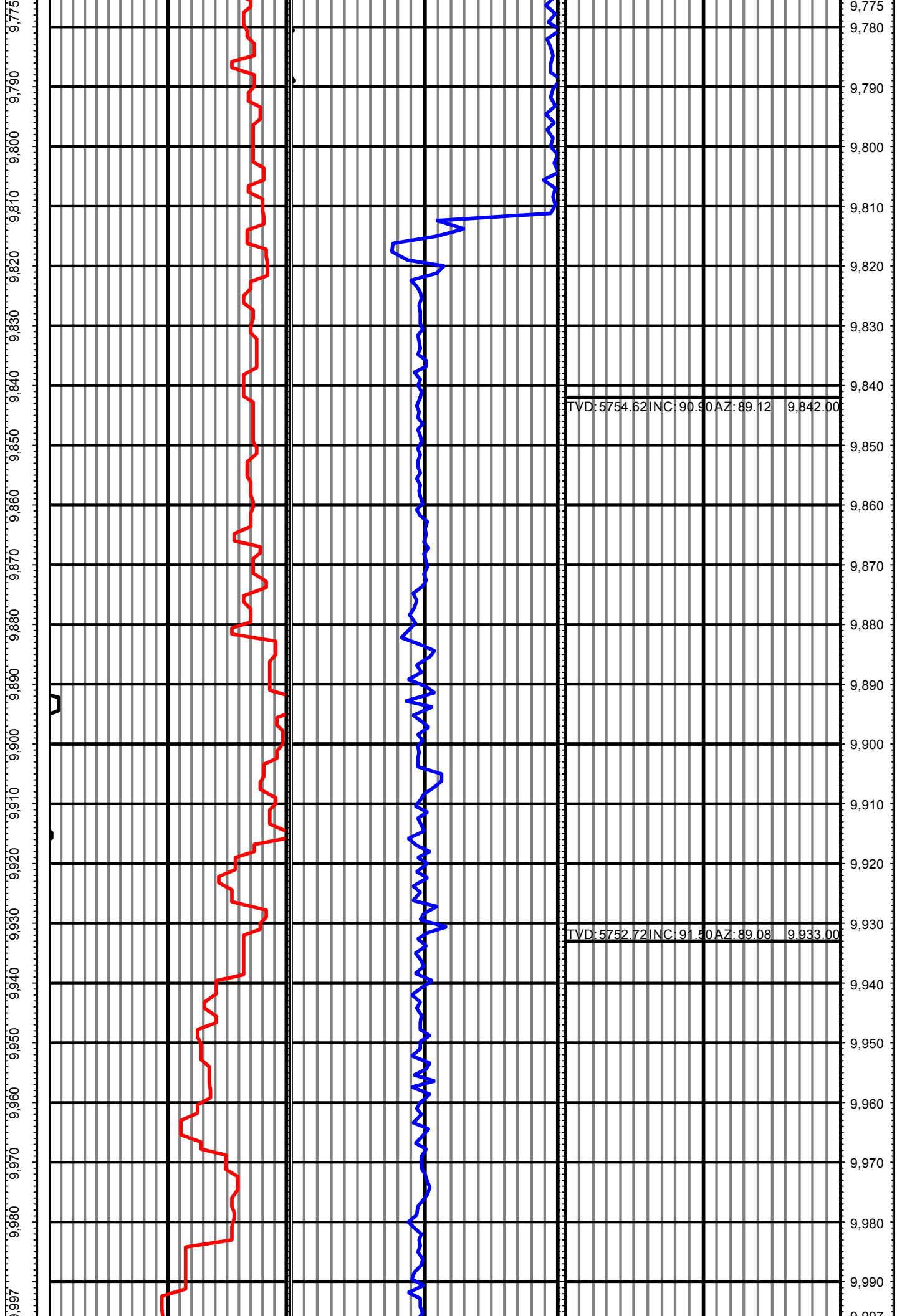


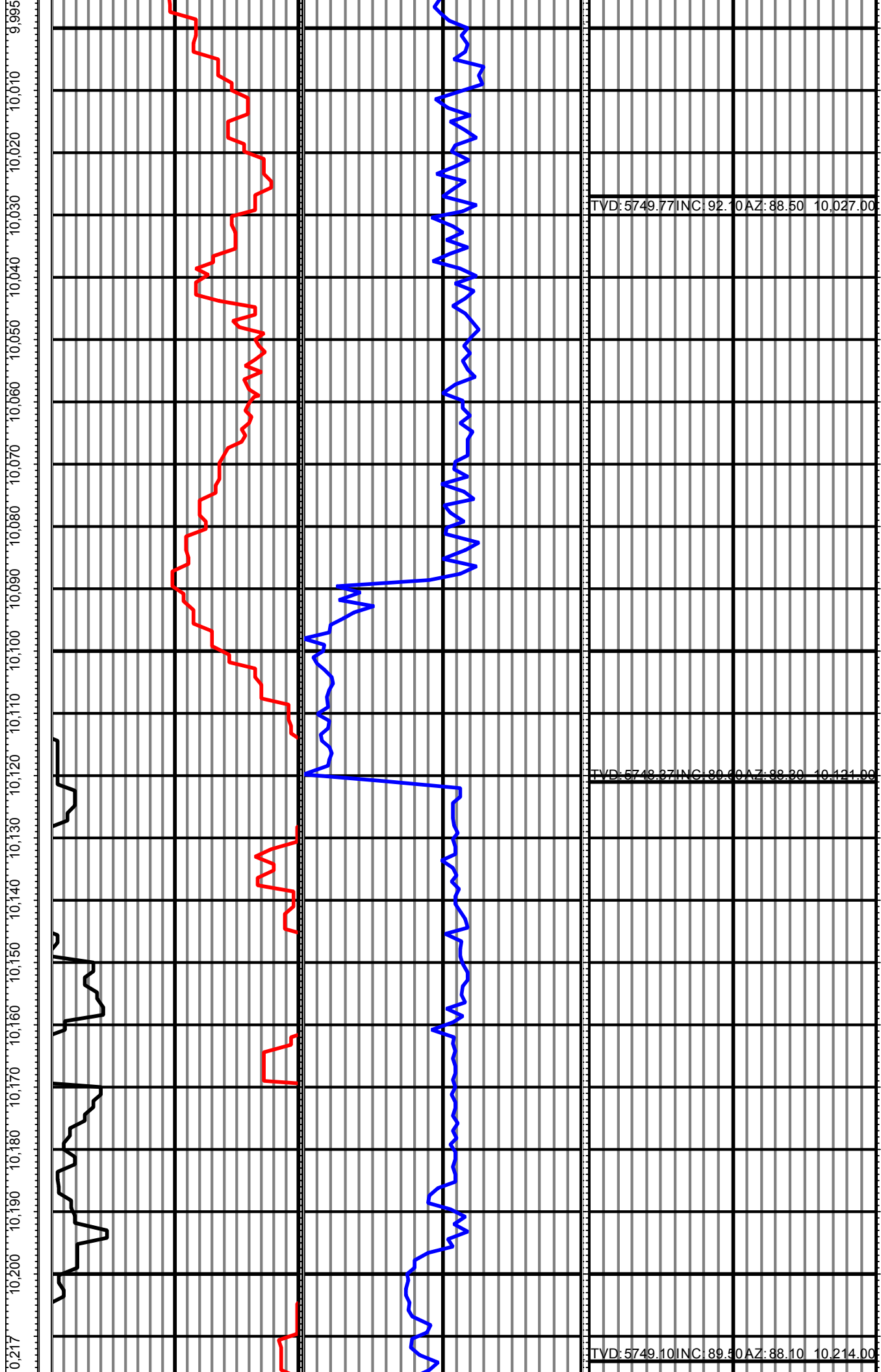




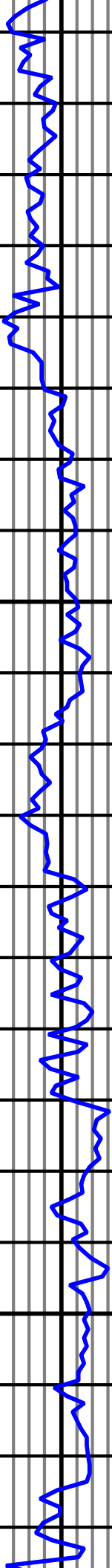
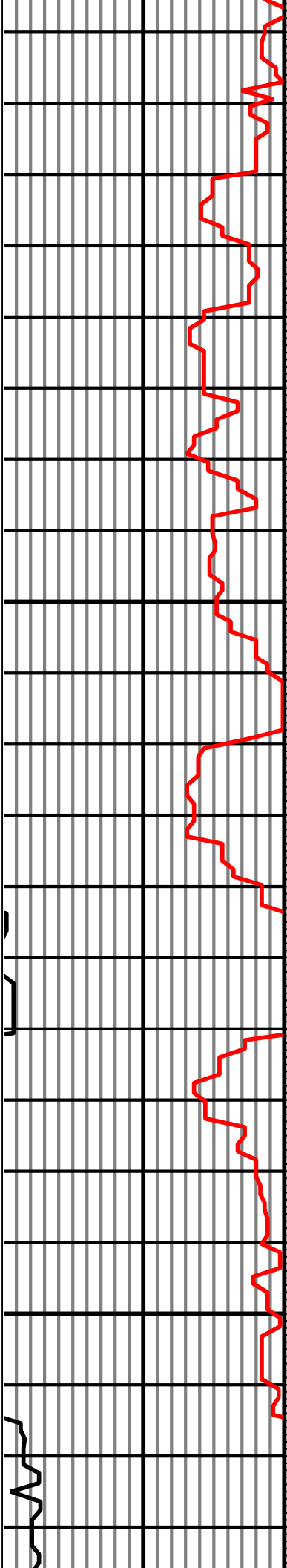








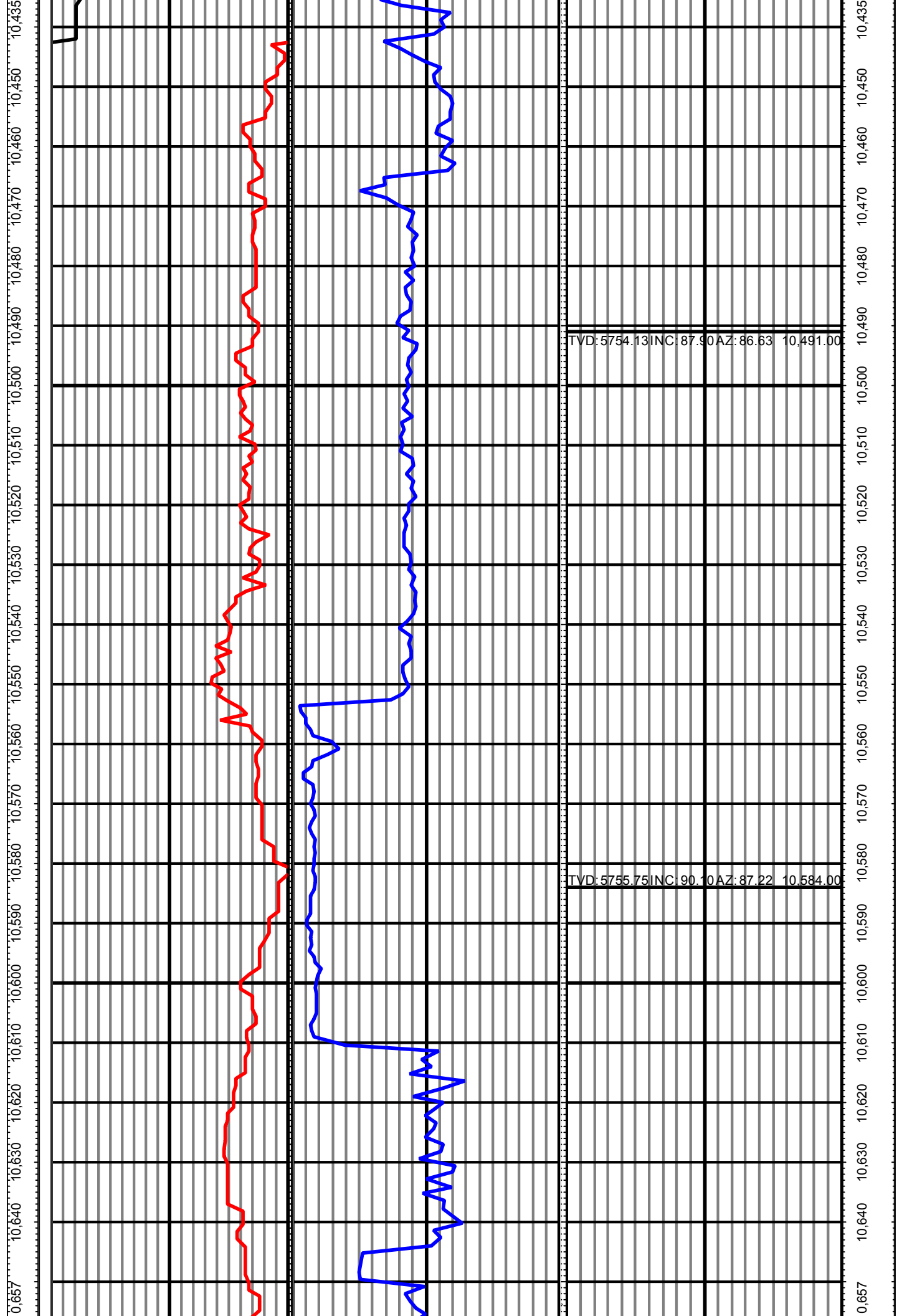
10,437 10,420 10,410 10,400 10,390 10,380 10,370 10,360 10,350 10,340 10,330 10,320 10,310 10,300 10,290 10,280 10,270 10,260 10,250 10,240 10,230 10,215

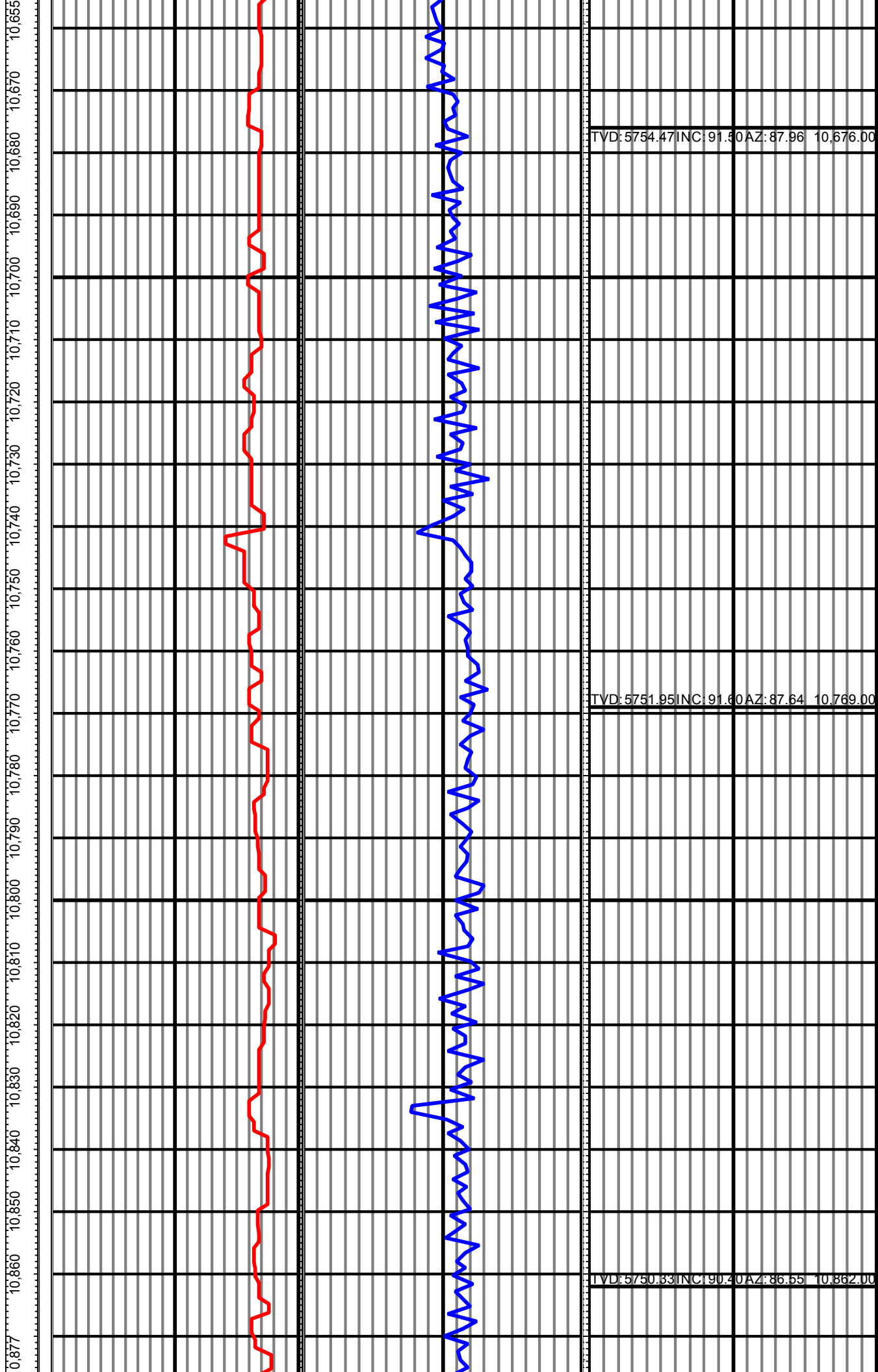


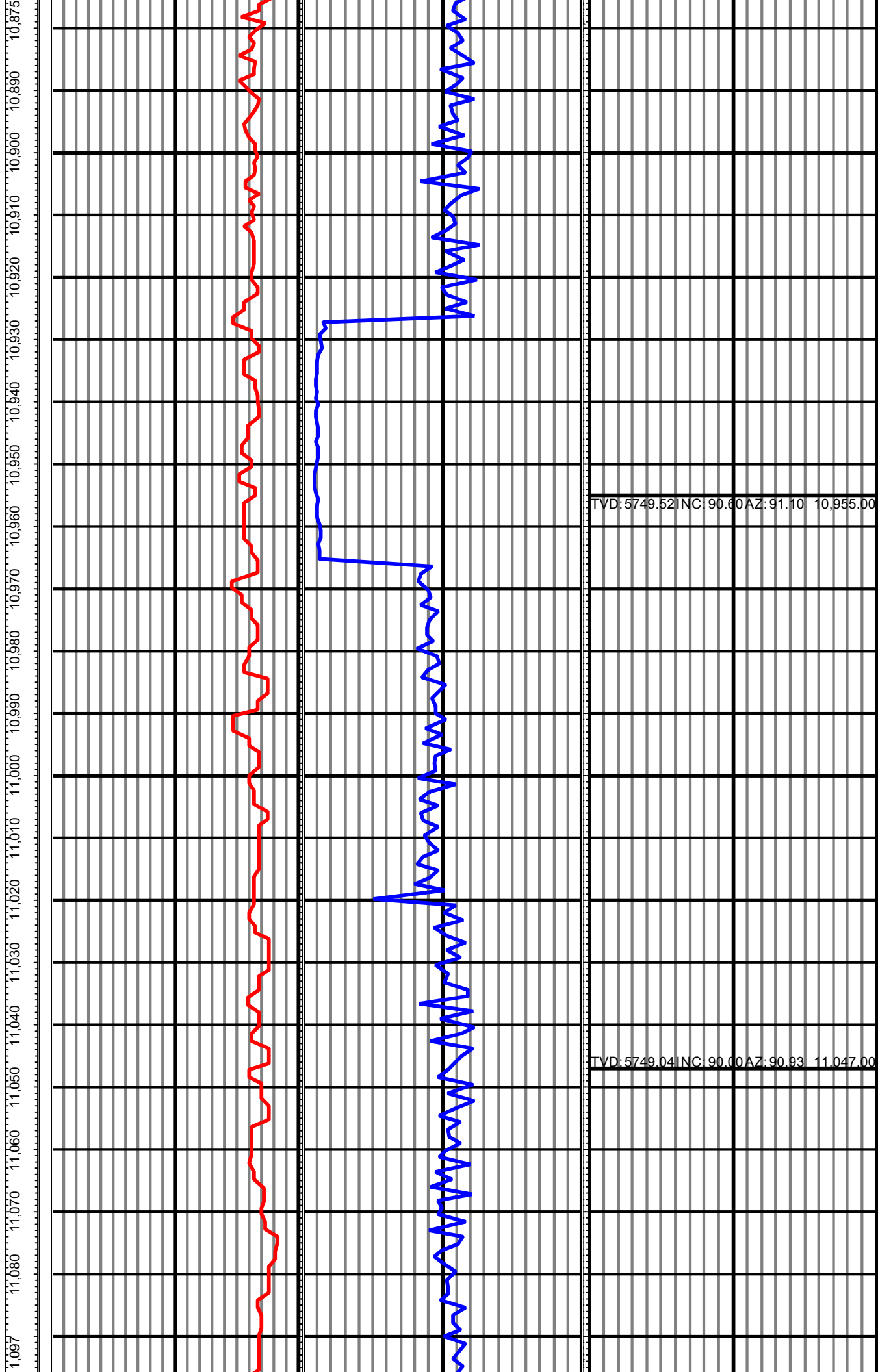
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TVD: 5751.34 INC: 88.70 AZ: 86.80 10,397.00

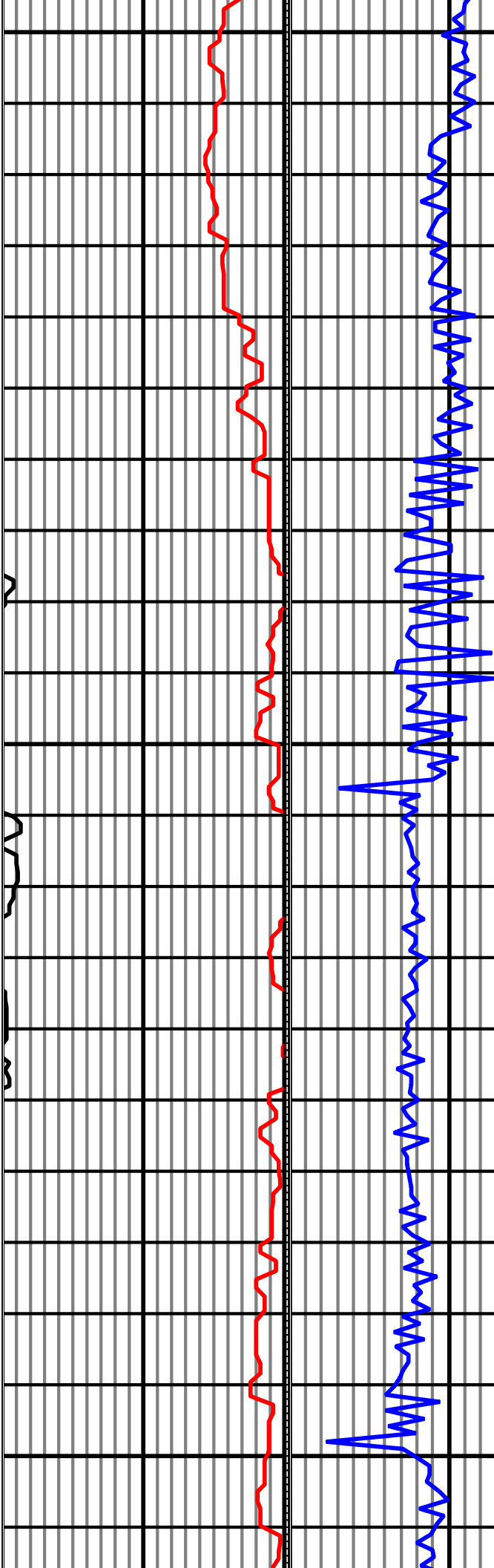
10,437 10,420 10,410 10,400 10,390 10,380 10,370 10,360 10,350 10,340 10,330 10,320 10,310 10,300 10,290 10,280 10,270 10,260 10,250 10,240 10,230 10,215







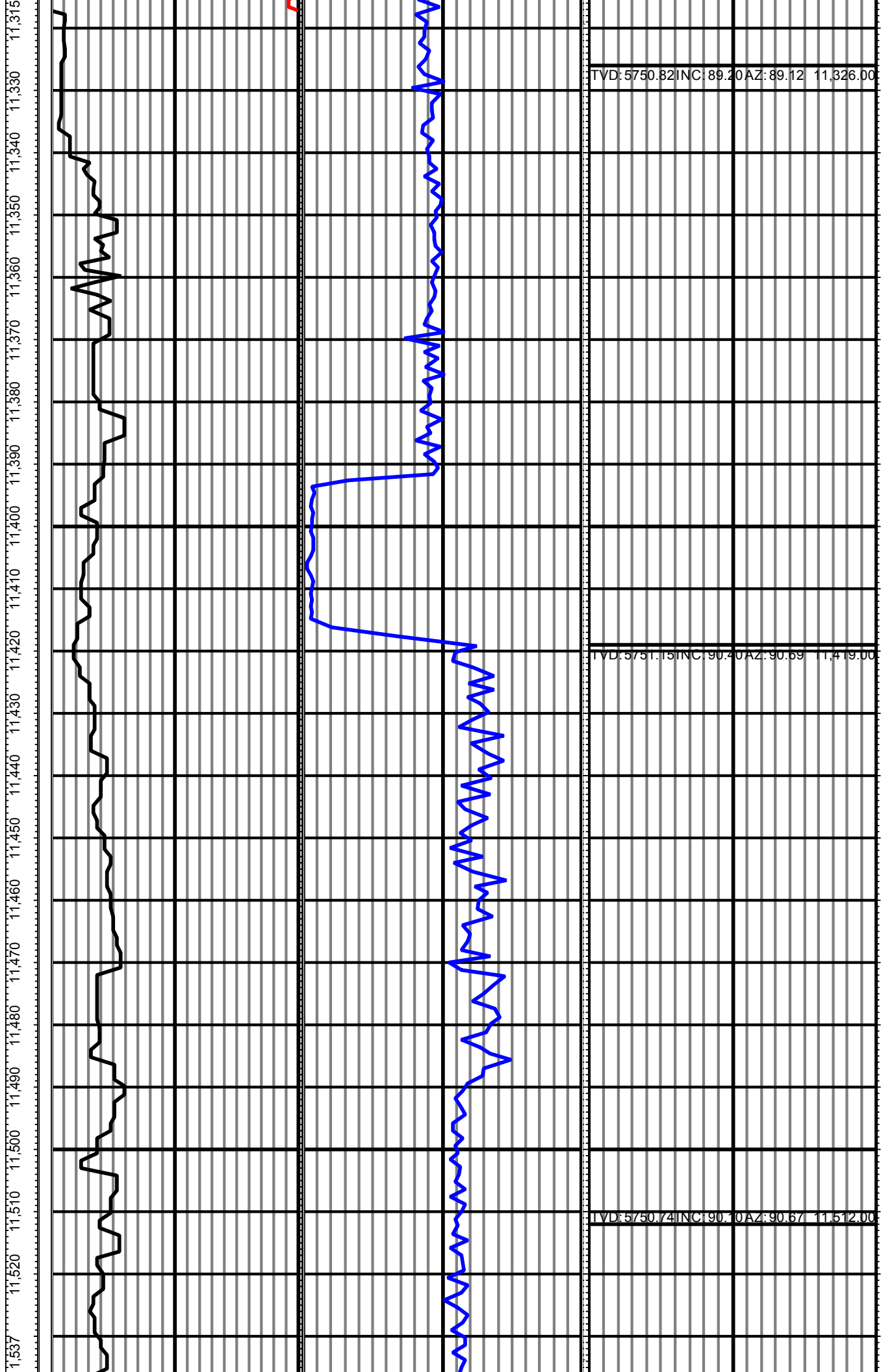
11,317 11,300 11,290 11,280 11,270 11,260 11,250 11,240 11,230 11,220 11,210 11,200 11,190 11,180 11,170 11,160 11,150 11,140 11,130 11,120 11,110 11,095



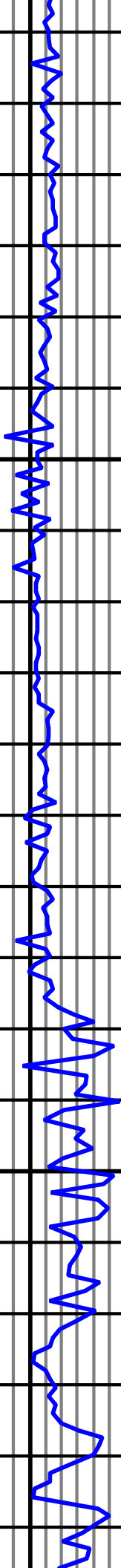
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TVD: 5750.01 INC: 89.40 AZ: 90.10 11,233.00

11,317 11,300 11,290 11,280 11,270 11,260 11,250 11,240 11,230 11,220 11,210 11,200 11,190 11,180 11,170 11,160 11,150 11,140 11,130 11,120 11,110 11,095



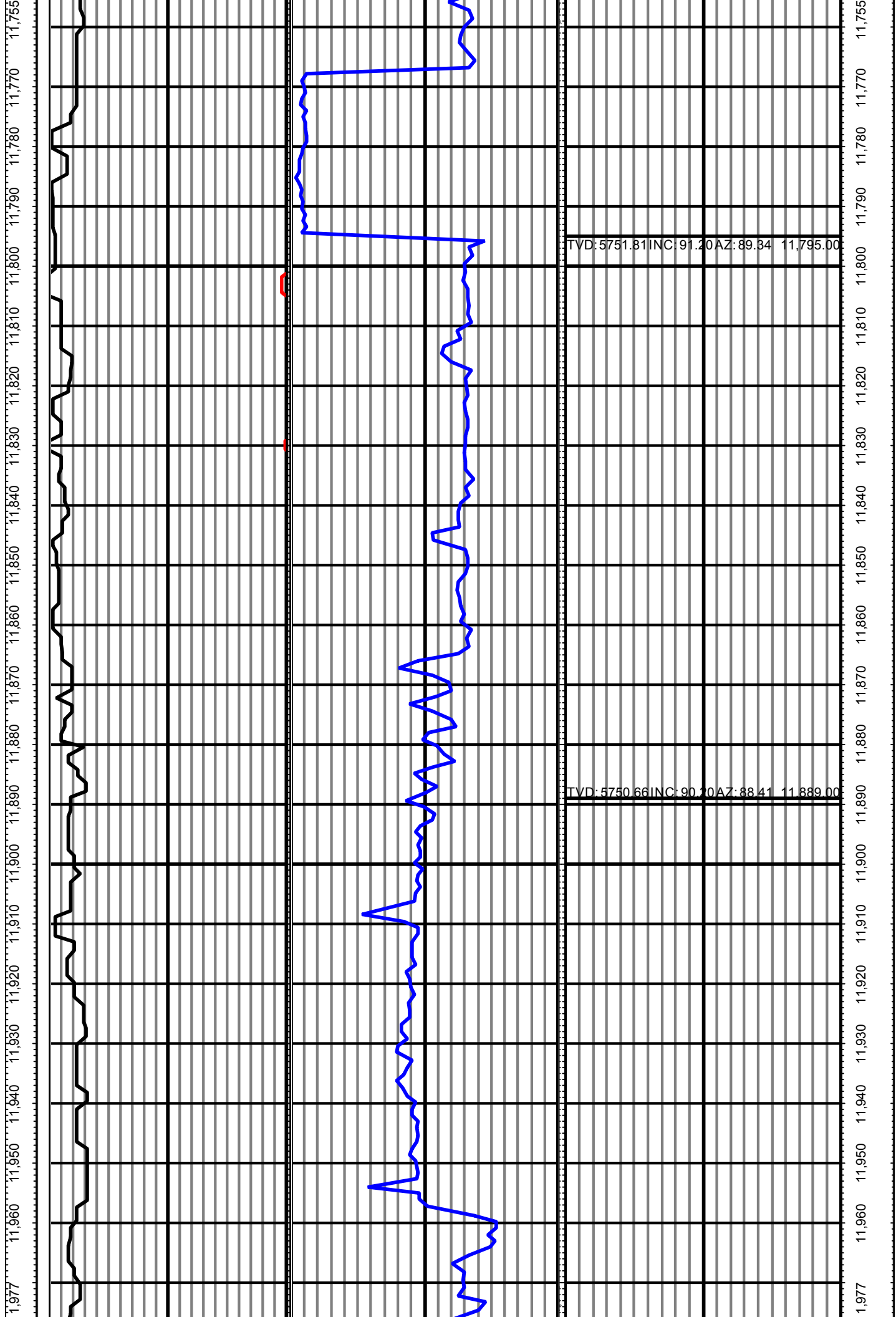
11,757 11,740 11,730 11,720 11,710 11,700 11,690 11,680 11,670 11,660 11,650 11,640 11,630 11,620 11,610 11,600 11,590 11,580 11,570 11,560 11,550 11,535

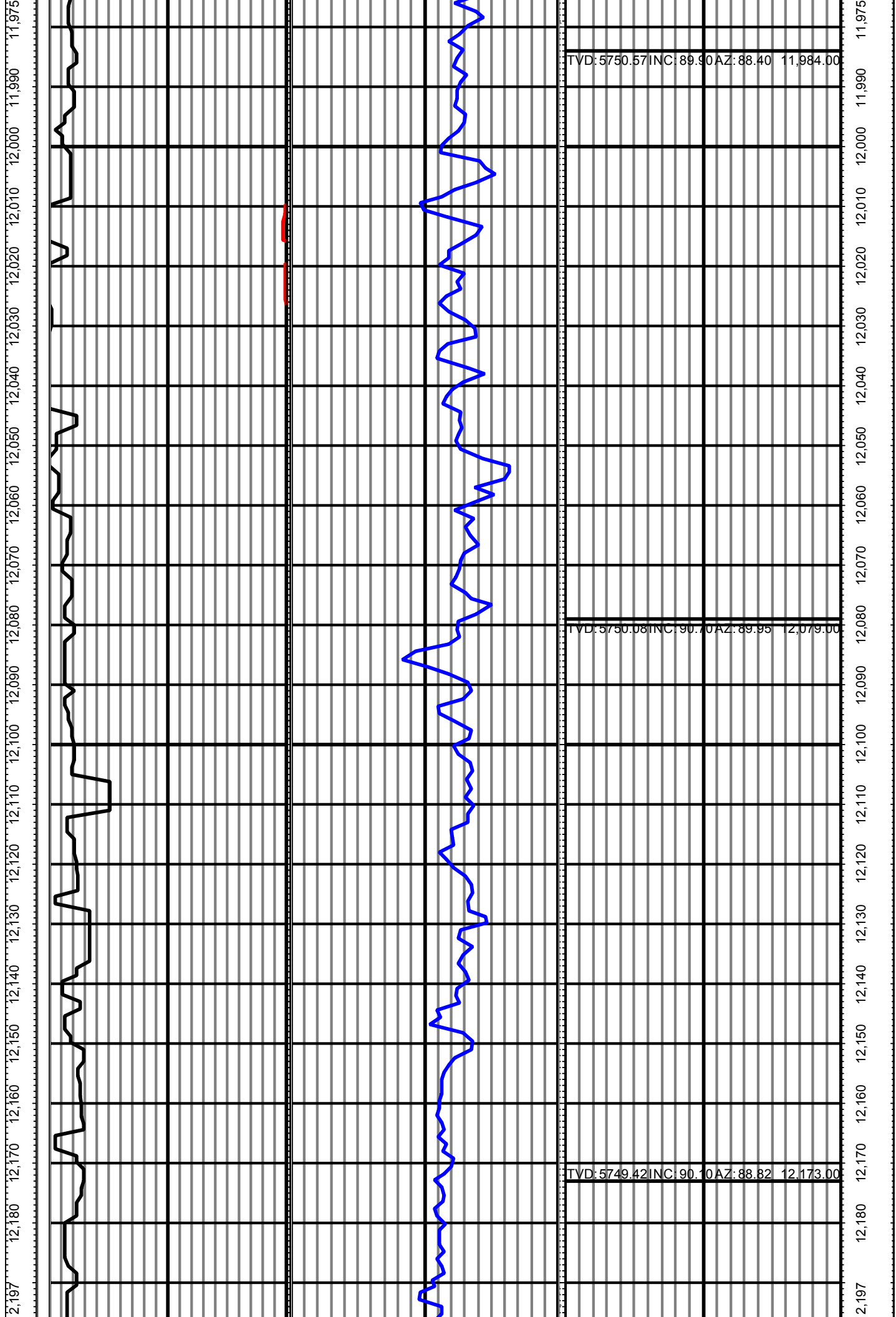


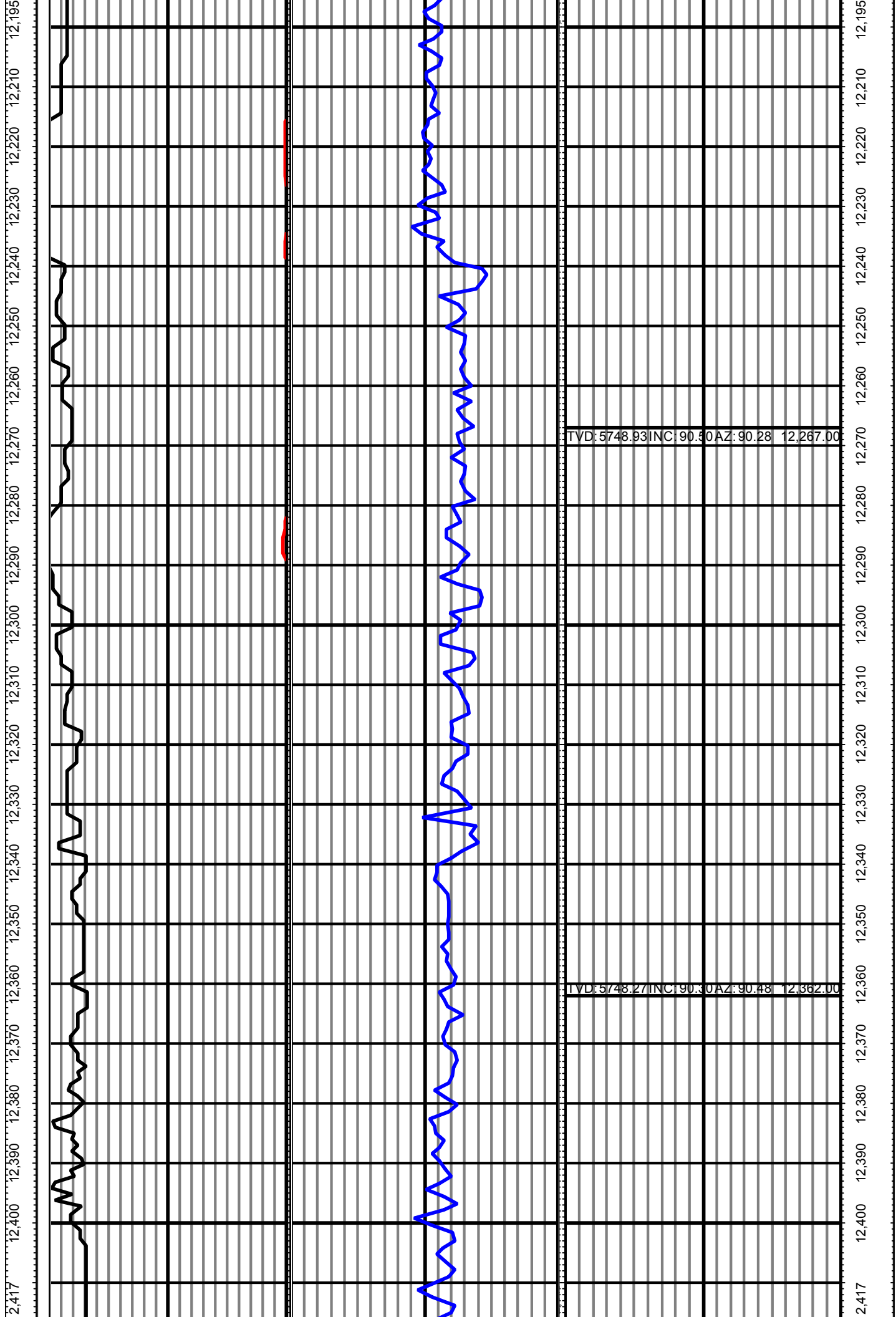
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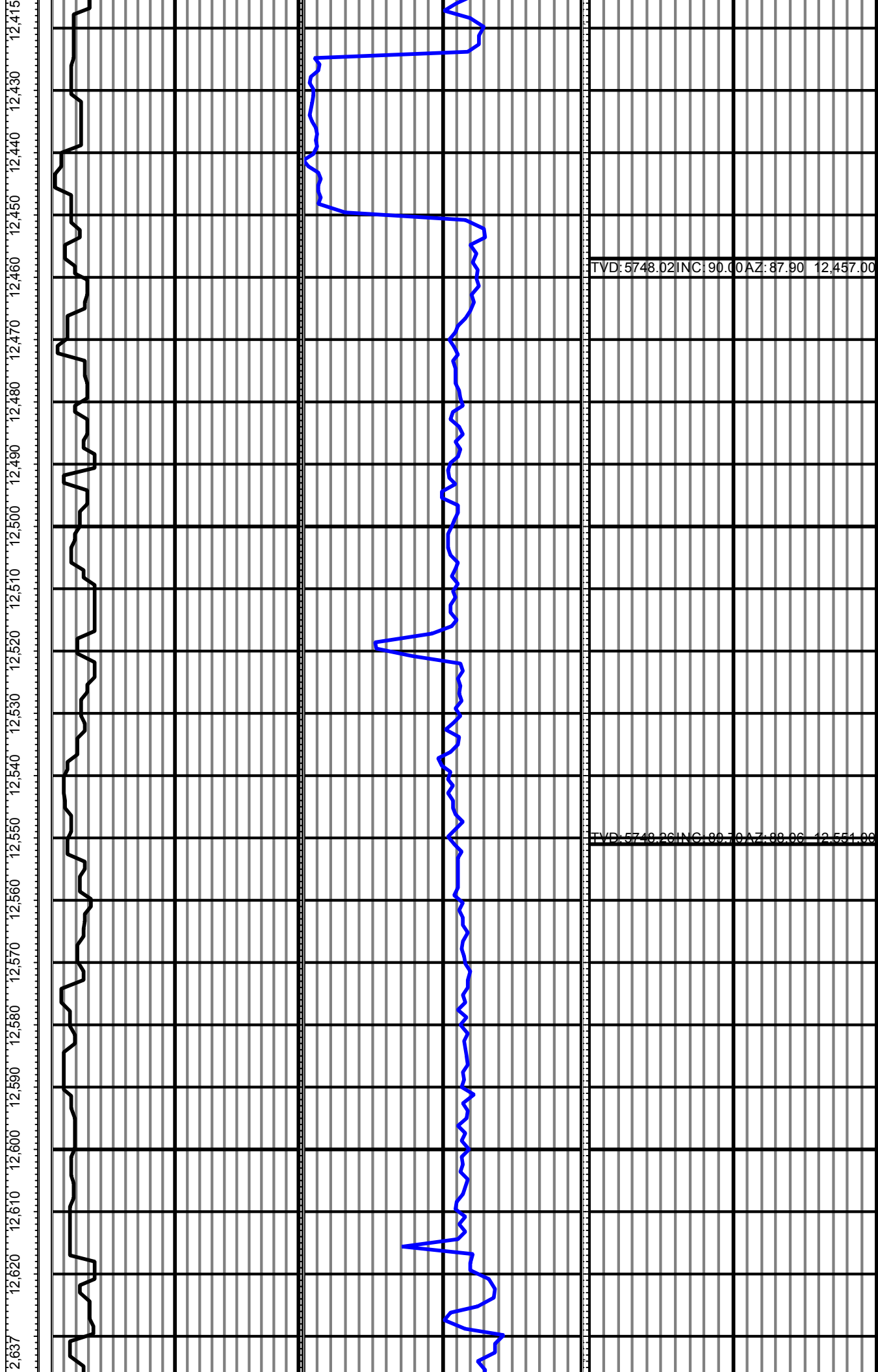
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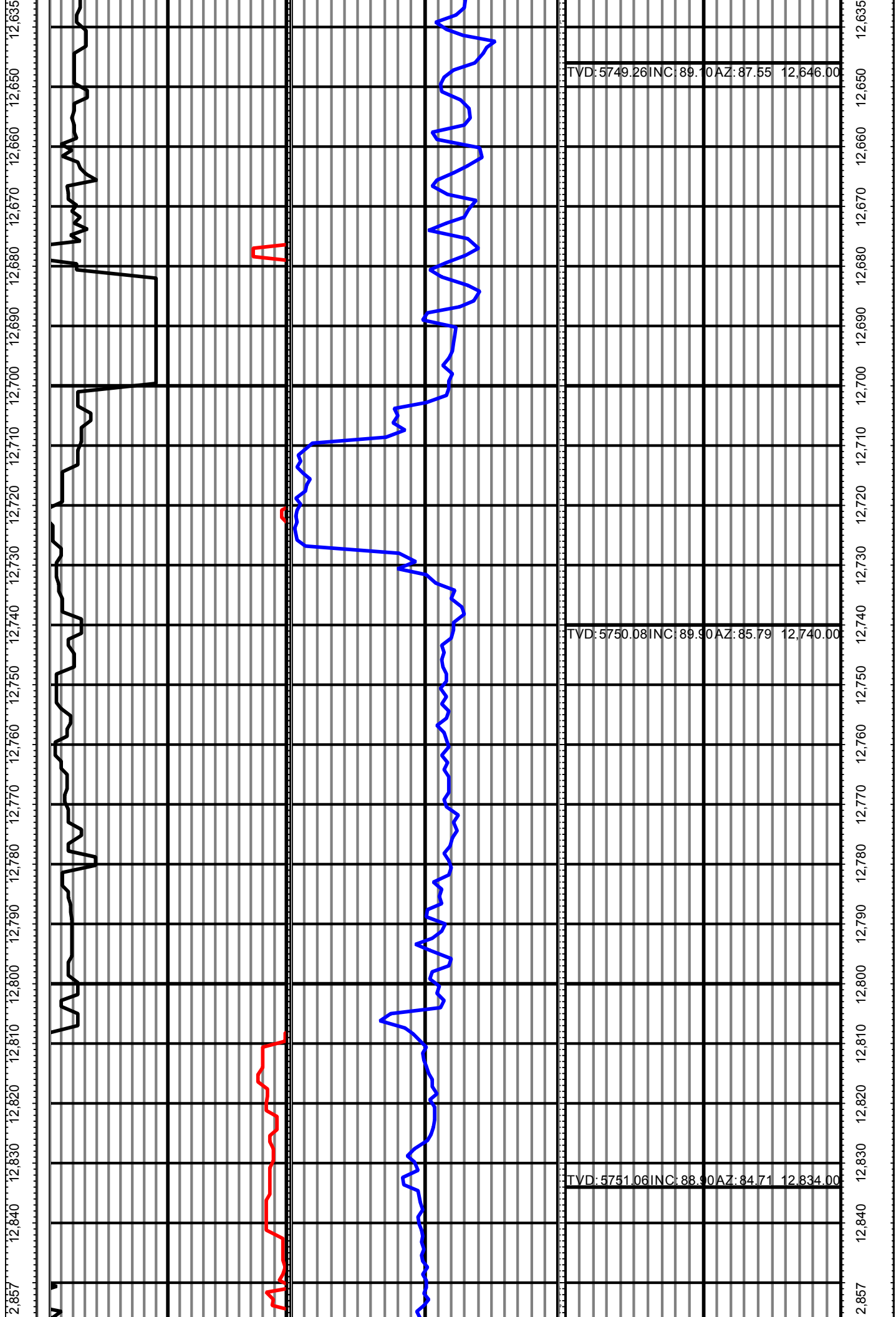
11,757 11,740 11,730 11,720 11,710 11,700 11,690 11,680 11,670 11,660 11,650 11,640 11,630 11,620 11,610 11,600 11,590 11,580 11,570 11,560 11,550 11,535

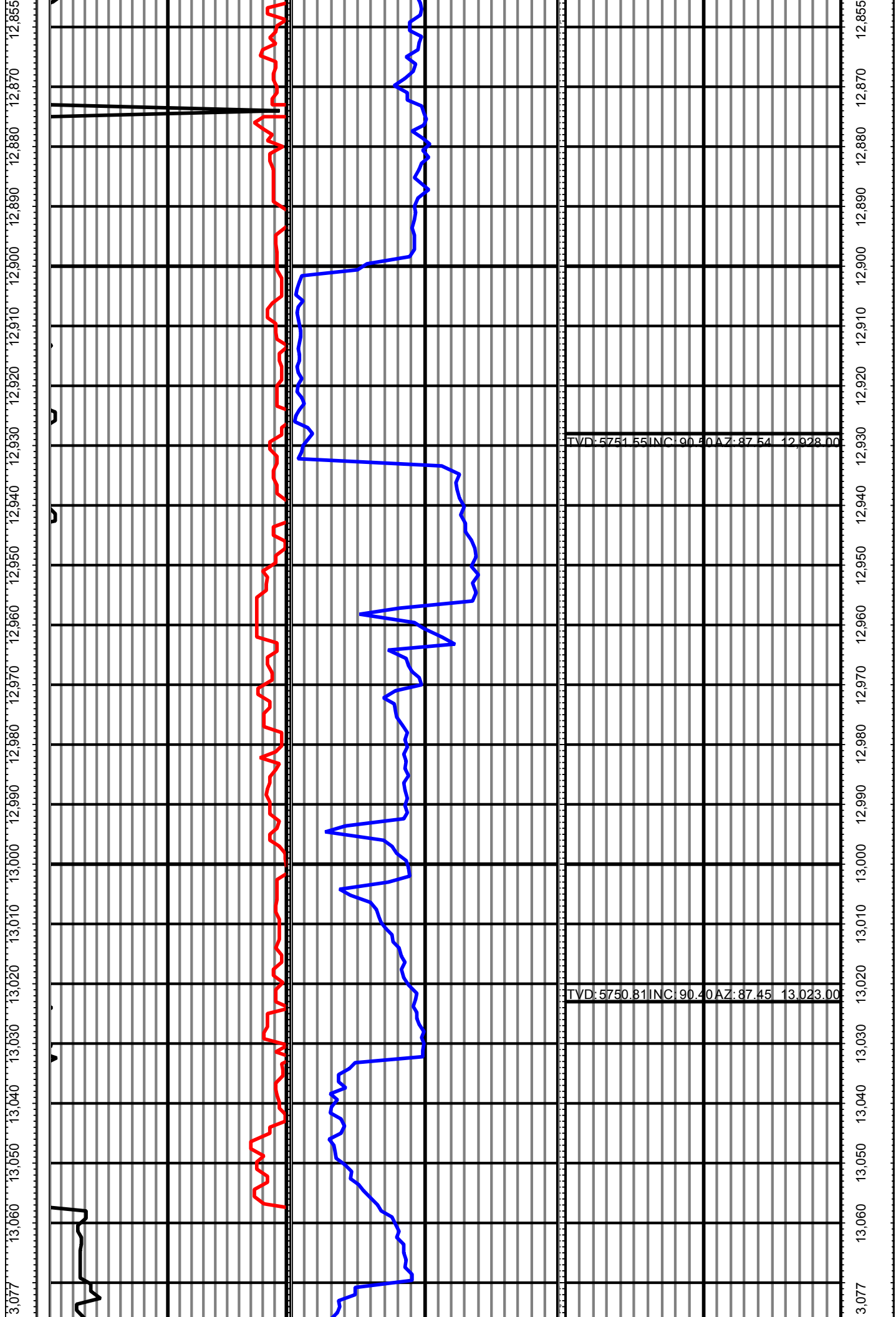




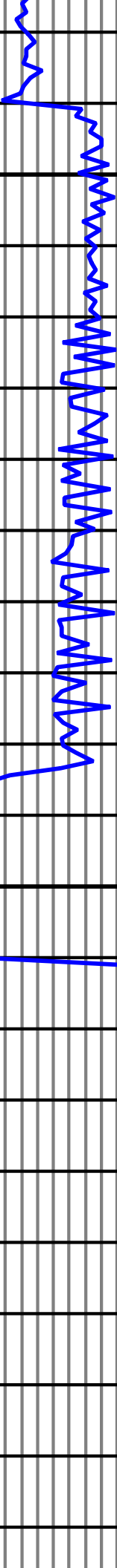








13,297 13,280 13,270 13,260 13,250 13,240 13,230 13,220 13,210 13,200 13,190 13,180 13,170 13,160 13,150 13,140 13,130 13,120 13,110 13,100 13,090 13,075



TVD: 5751.22 INC: 89.70 AZ: 86.64 13,117.00

TVD: 5750.07 INC: 91.46 AZ: 89.44 13,211.00

13,297 13,280 13,270 13,260 13,250 13,240 13,230 13,220 13,210 13,200 13,190 13,180 13,170 13,160 13,150 13,140 13,130 13,120 13,110 13,100 13,090 13,075

