



Noble Energy

RM-13623

5":100' - MD

8/19/2013 4:54:15 PM

Oper. Company: DDC
Country: United States
State / Province: Colorado
County / Parish: Weld
Started: 08/11/2013 02:30 PM

API/UWI: 05-123-37479
Field: Wildcat
Well: Rohn State LD04-68-1HN
Rig: H&P #326
Ended: 08/19/2013 04:30 PM

Personnel

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

Location

Latitude: 40° 47' 9.708 N
Longitude: 103° 52' 40.008 W
Elev. GL: 4747
Elev. DF: 30
Elev. KB: 4777

Rohn State LD04-68-1HN FINAL 5" MD

Hole Data

Size	From	To
13 3/4	0	646
8 3/4	646	6157
6 1/8	6157	14802

Casing Data

Size	From	To
9 5/8	0	636
7	636	6140

Bit Sizes

Size	From	To
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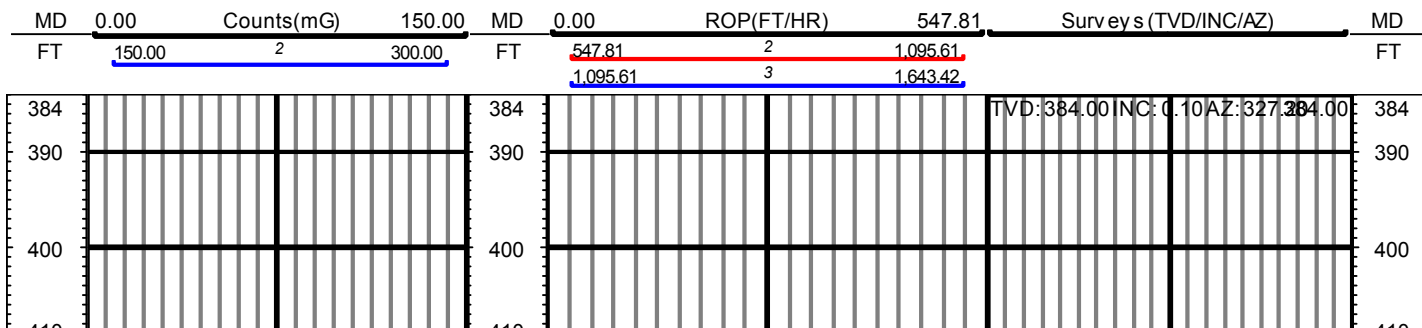
Mud Data

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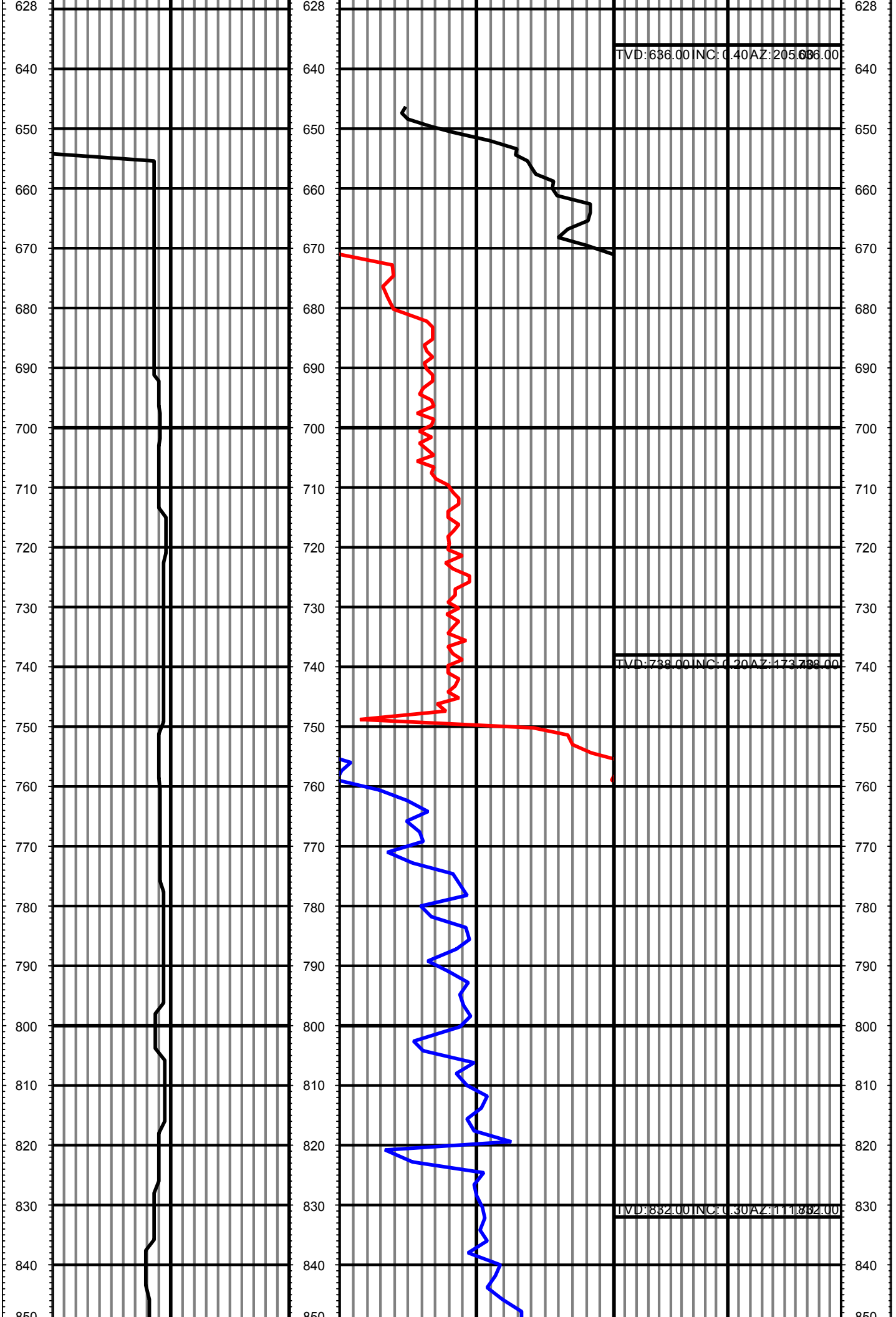
Tool Run Data

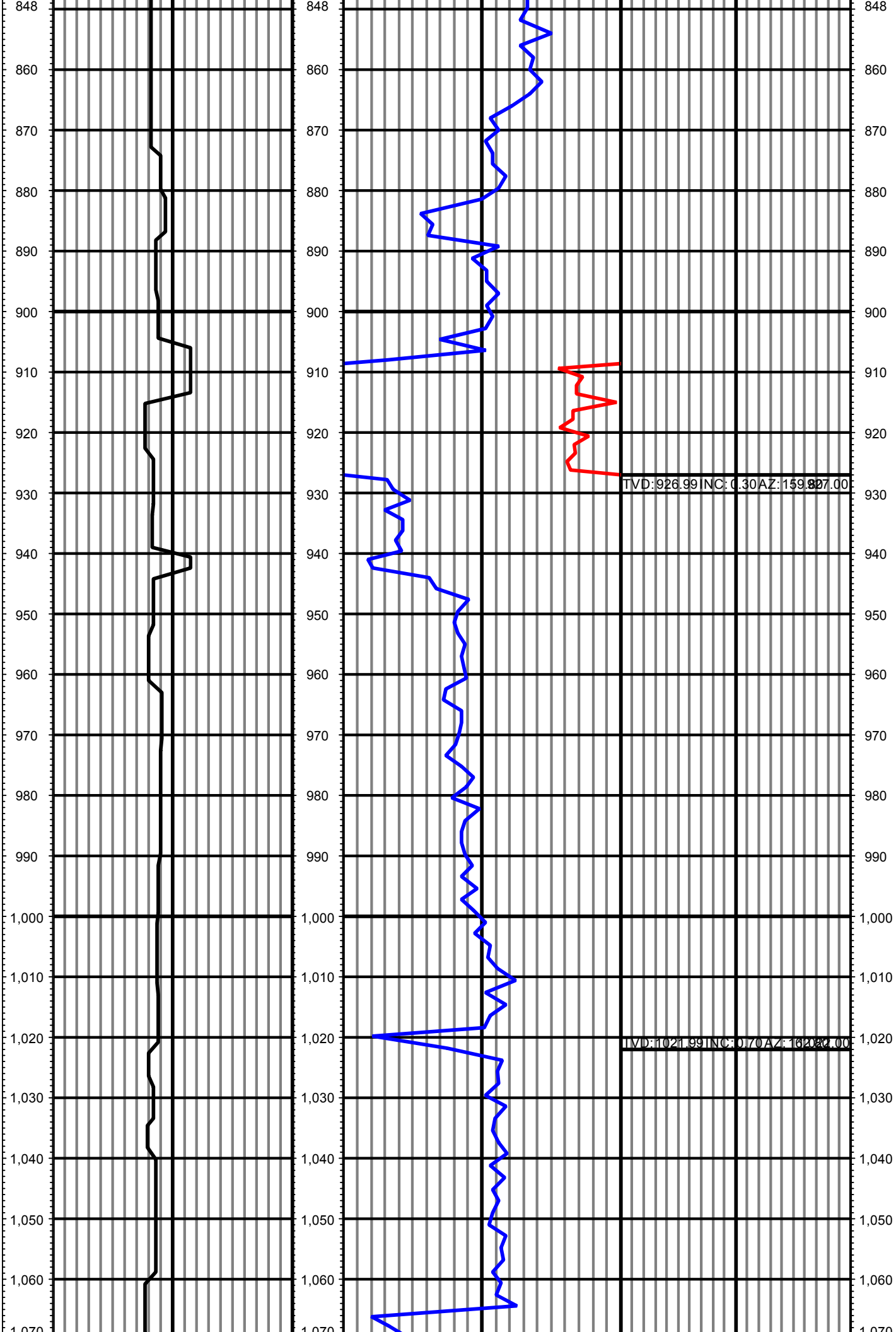
Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
1515	38	3.163	8/11/2013 2:30:41 PM	646	8/12/2013 10:00:41 AM	5015
1515	38	3.163	8/12/2013 8:00:05 PM	5015	8/13/2013 8:00:05 AM	6157
1515	51	2.209	8/14/2013 8:00:10 PM	6157	8/18/2013 7:30:10 AM	13428
3641	51	2.33	8/19/2013 1:00:56 AM	13428	8/19/2013 5:00:56 PM	14802

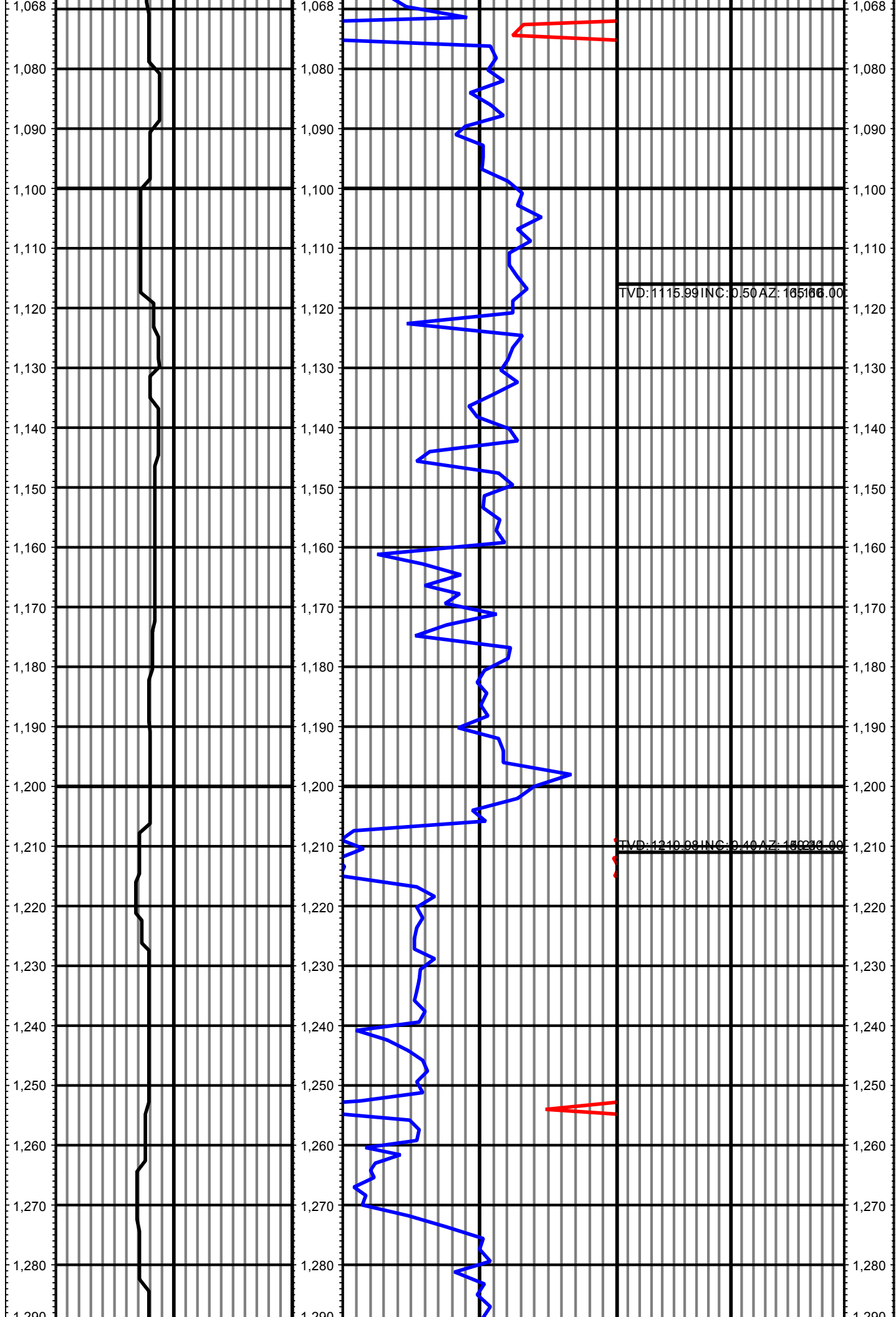
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost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

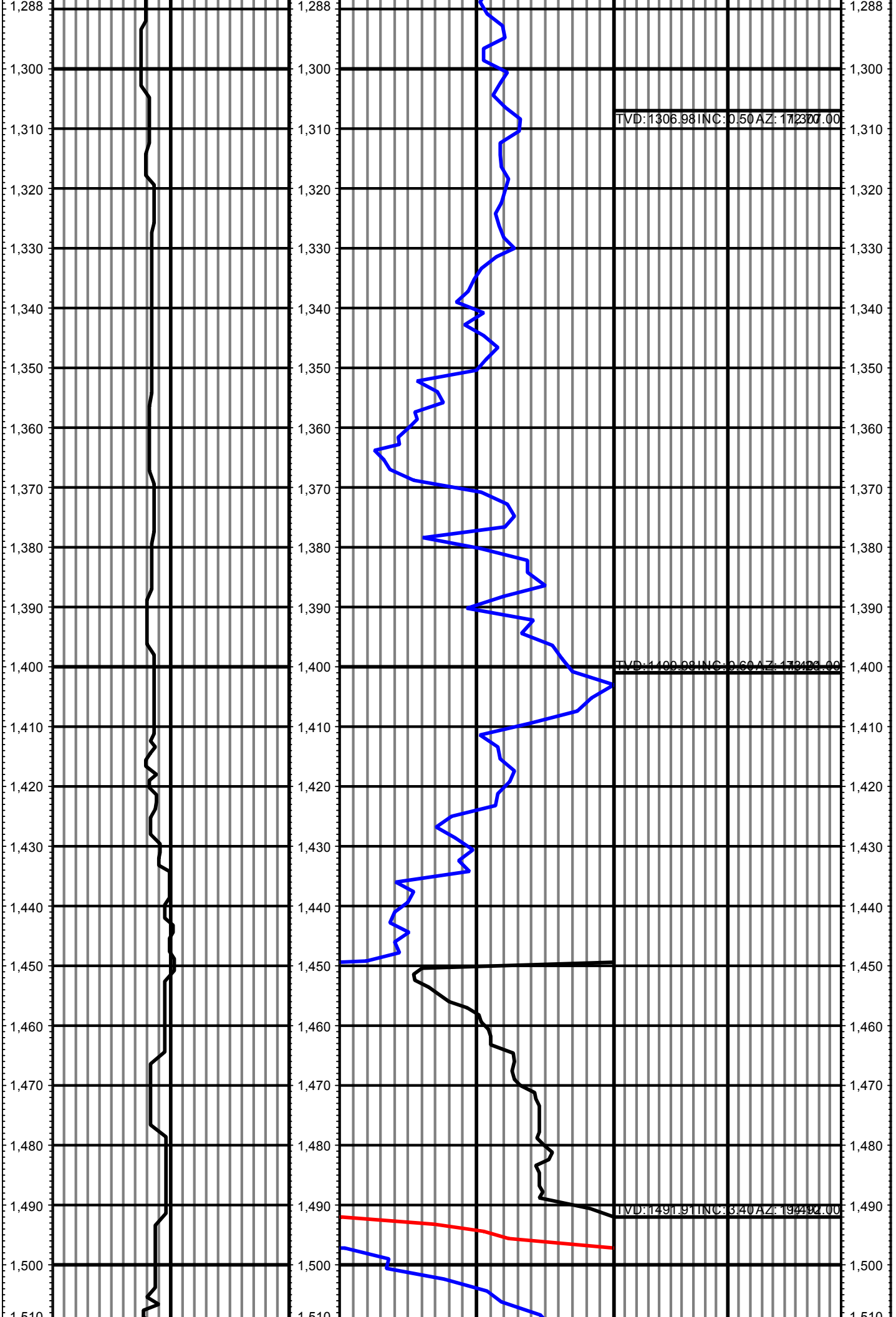


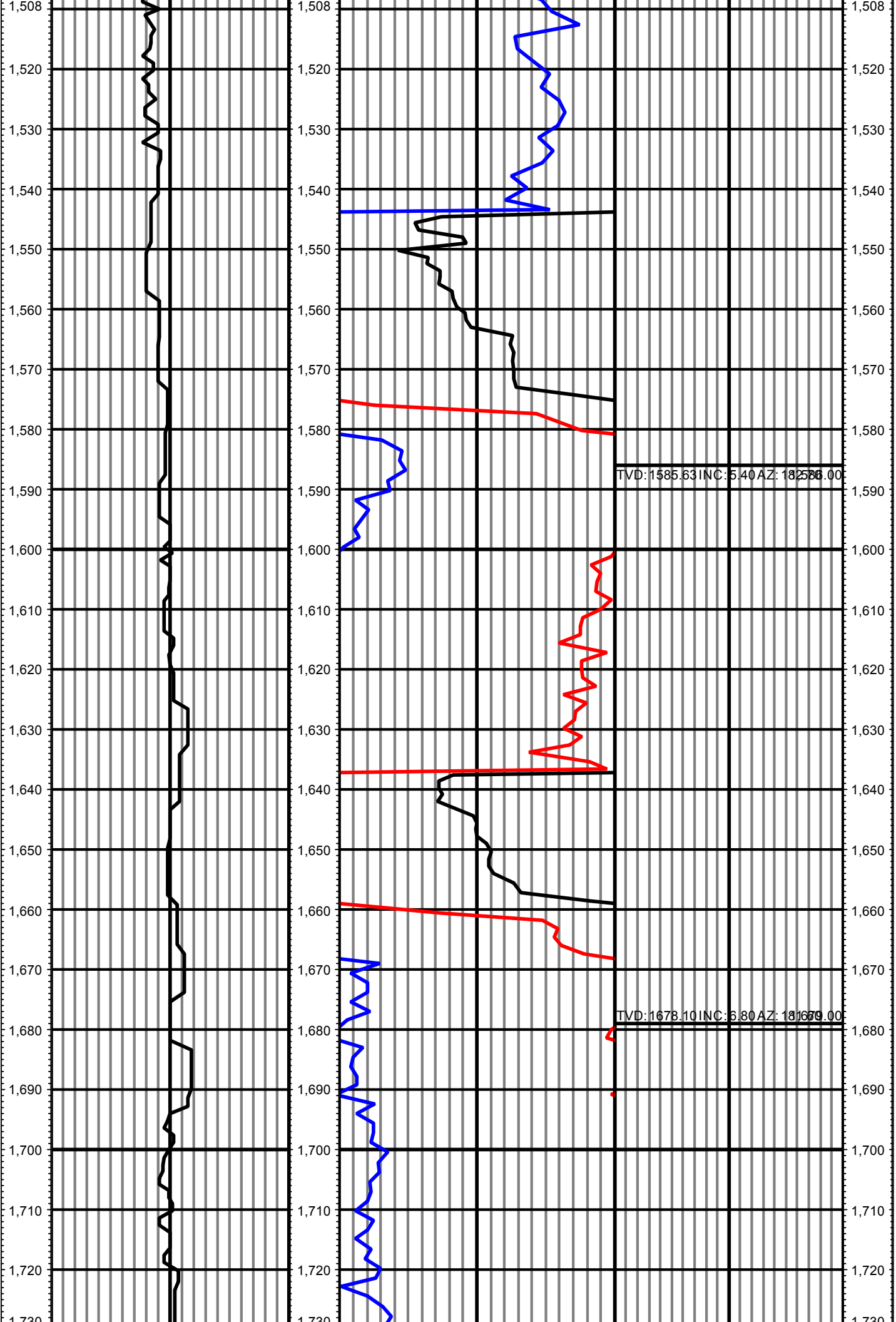
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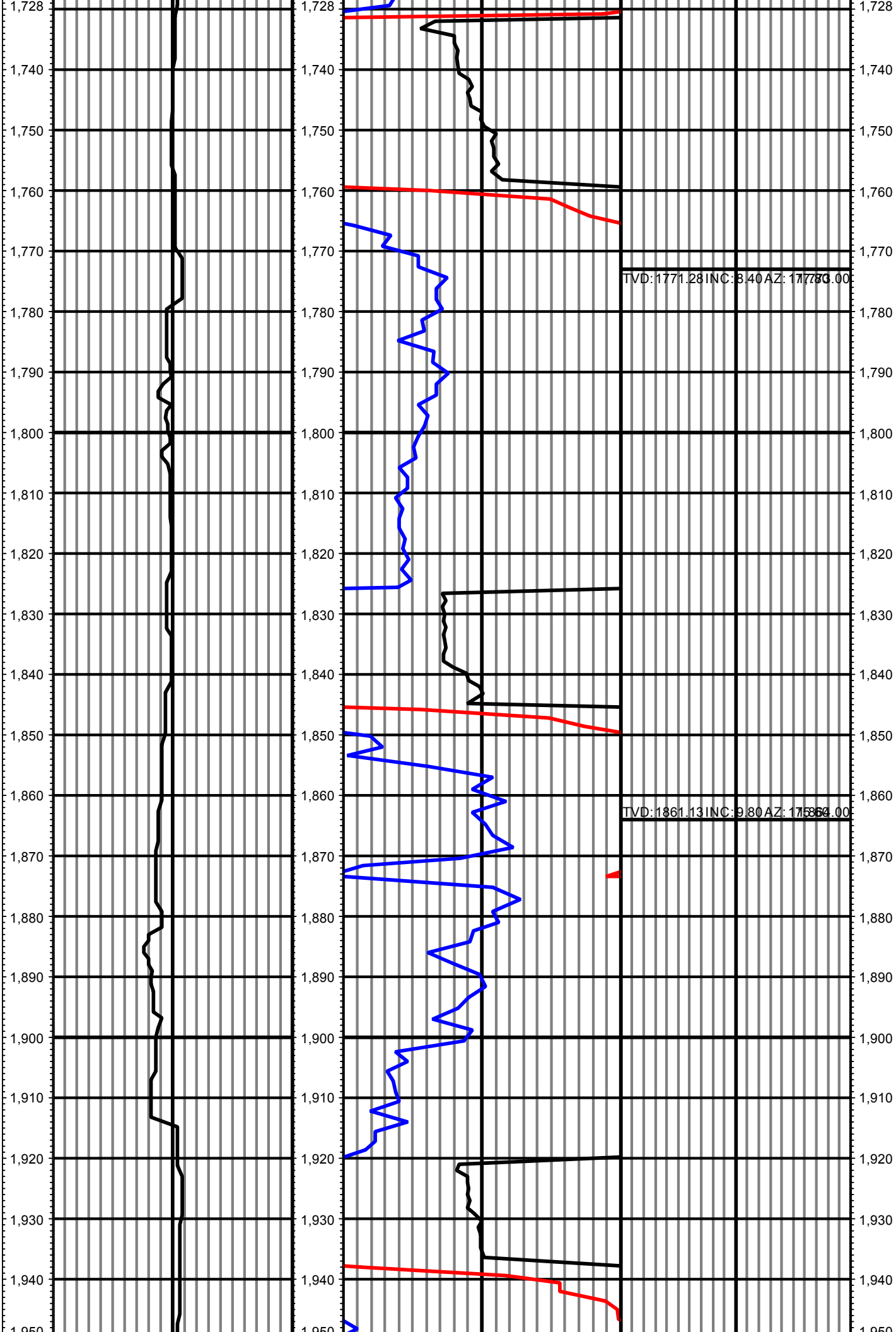


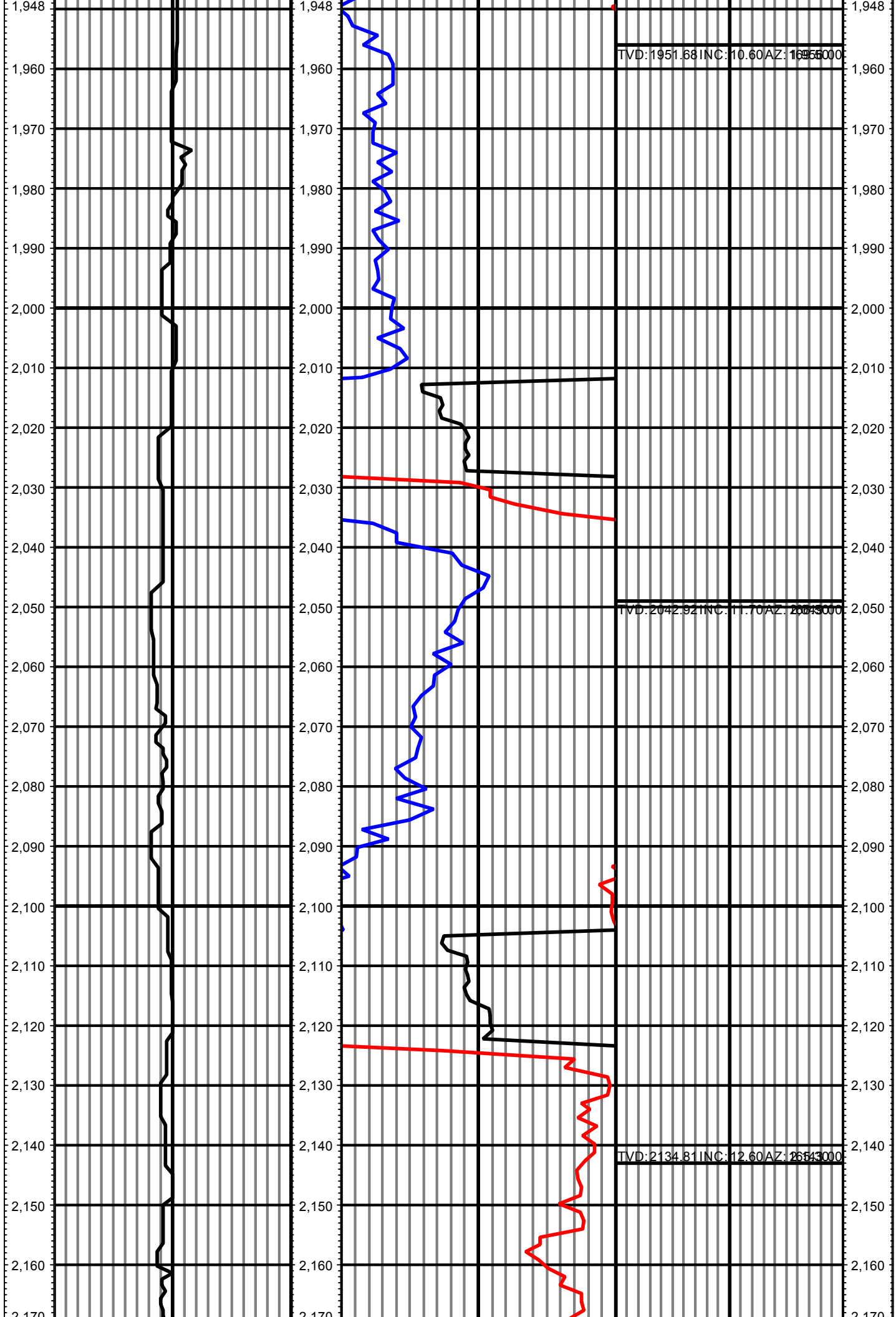


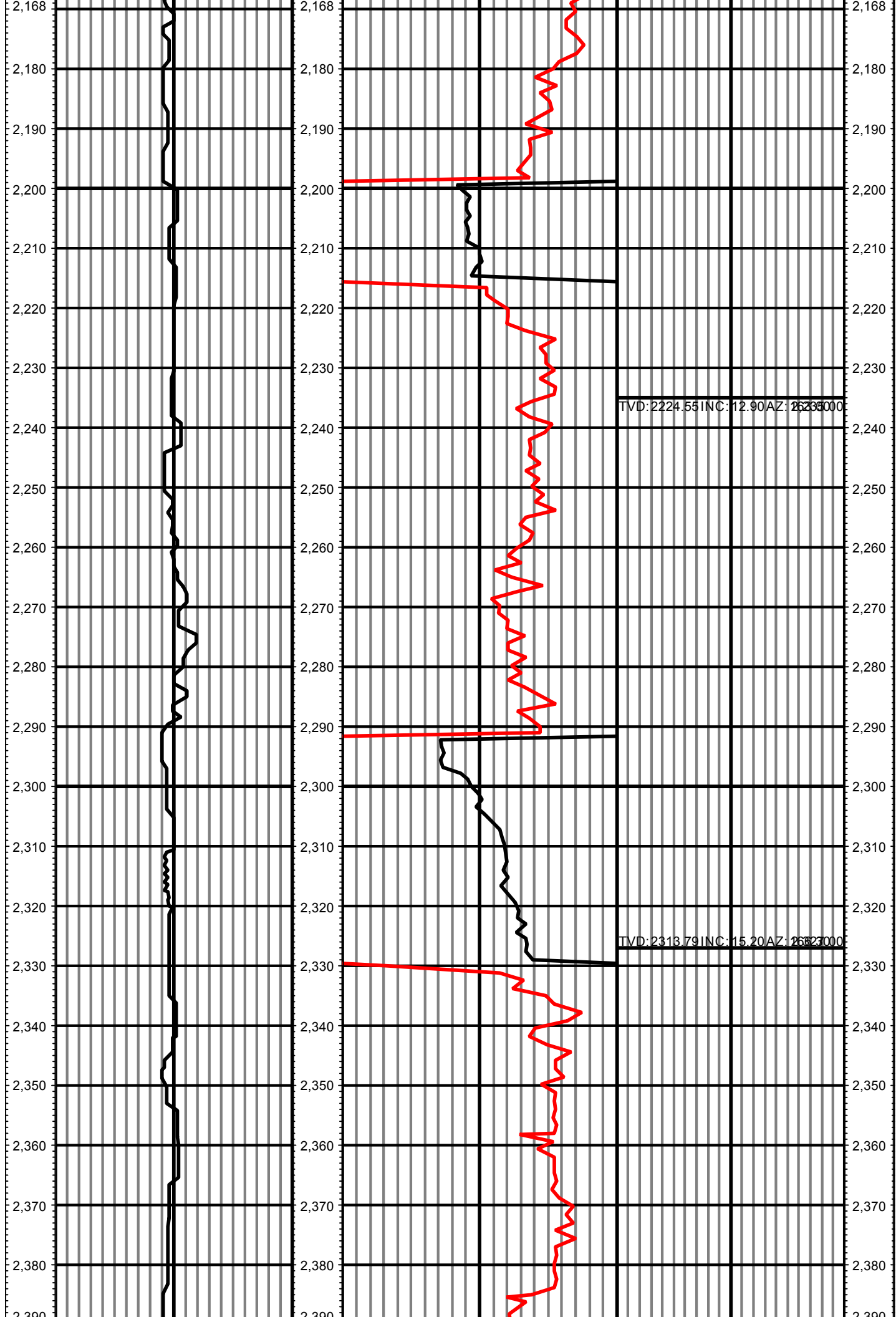


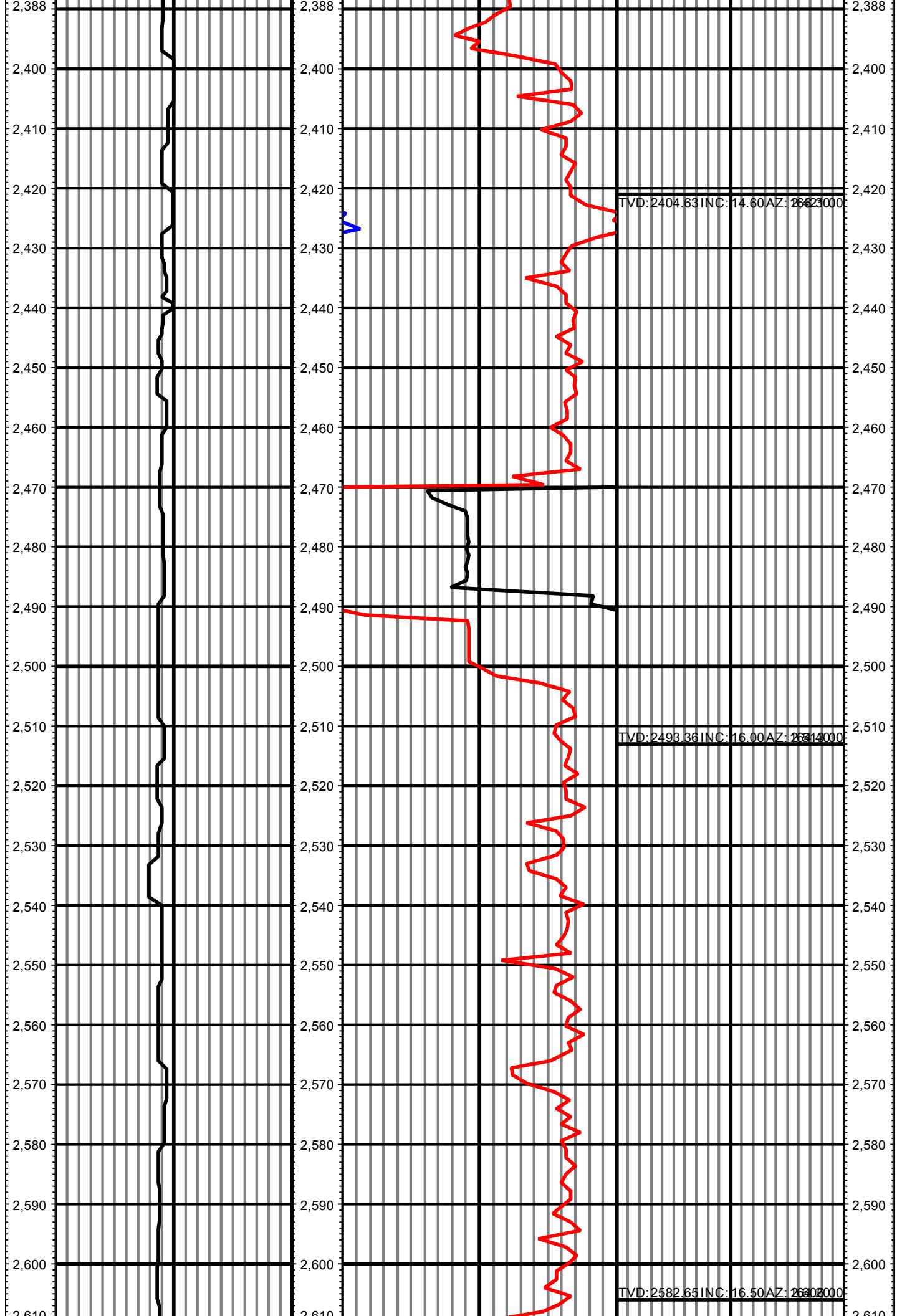


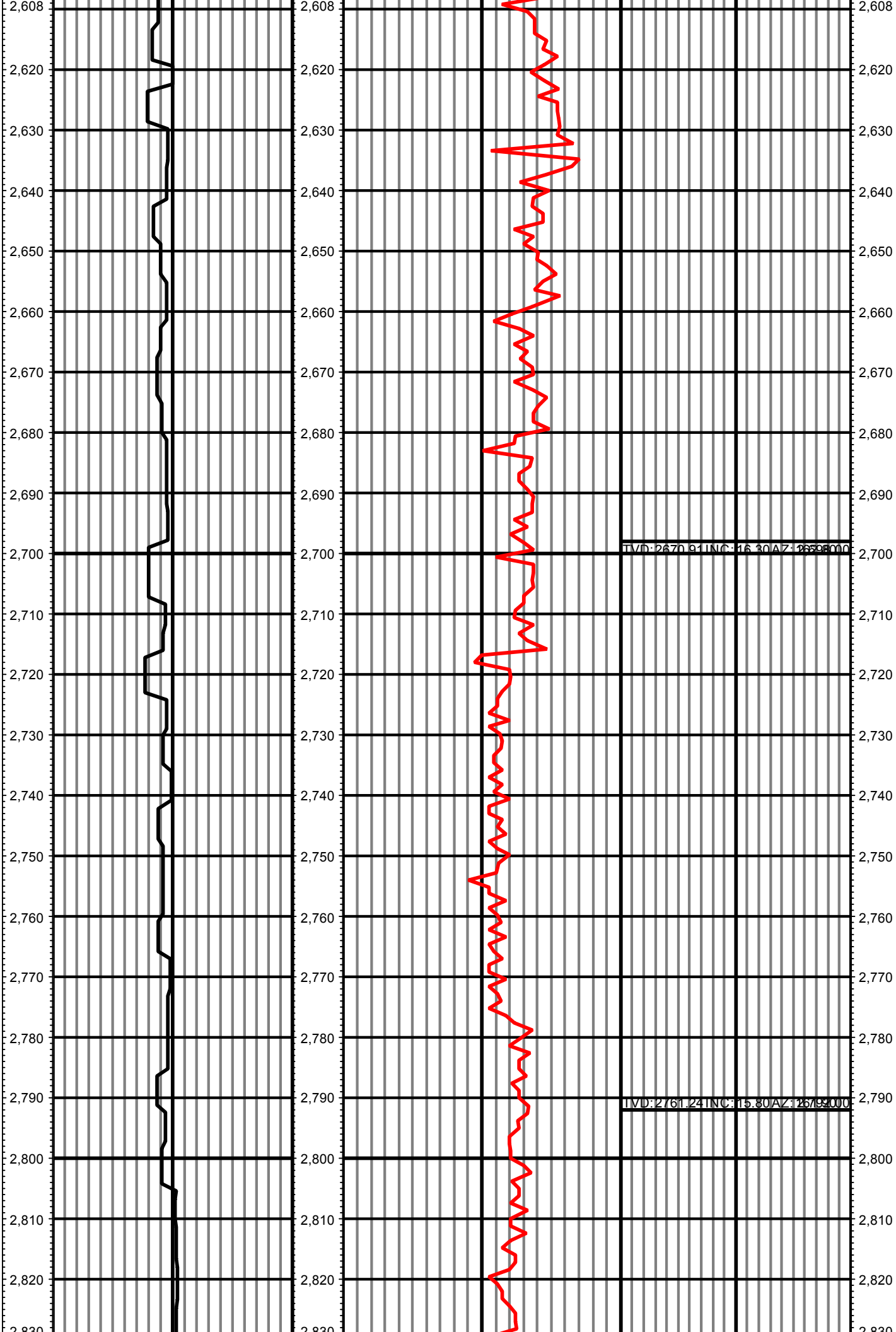


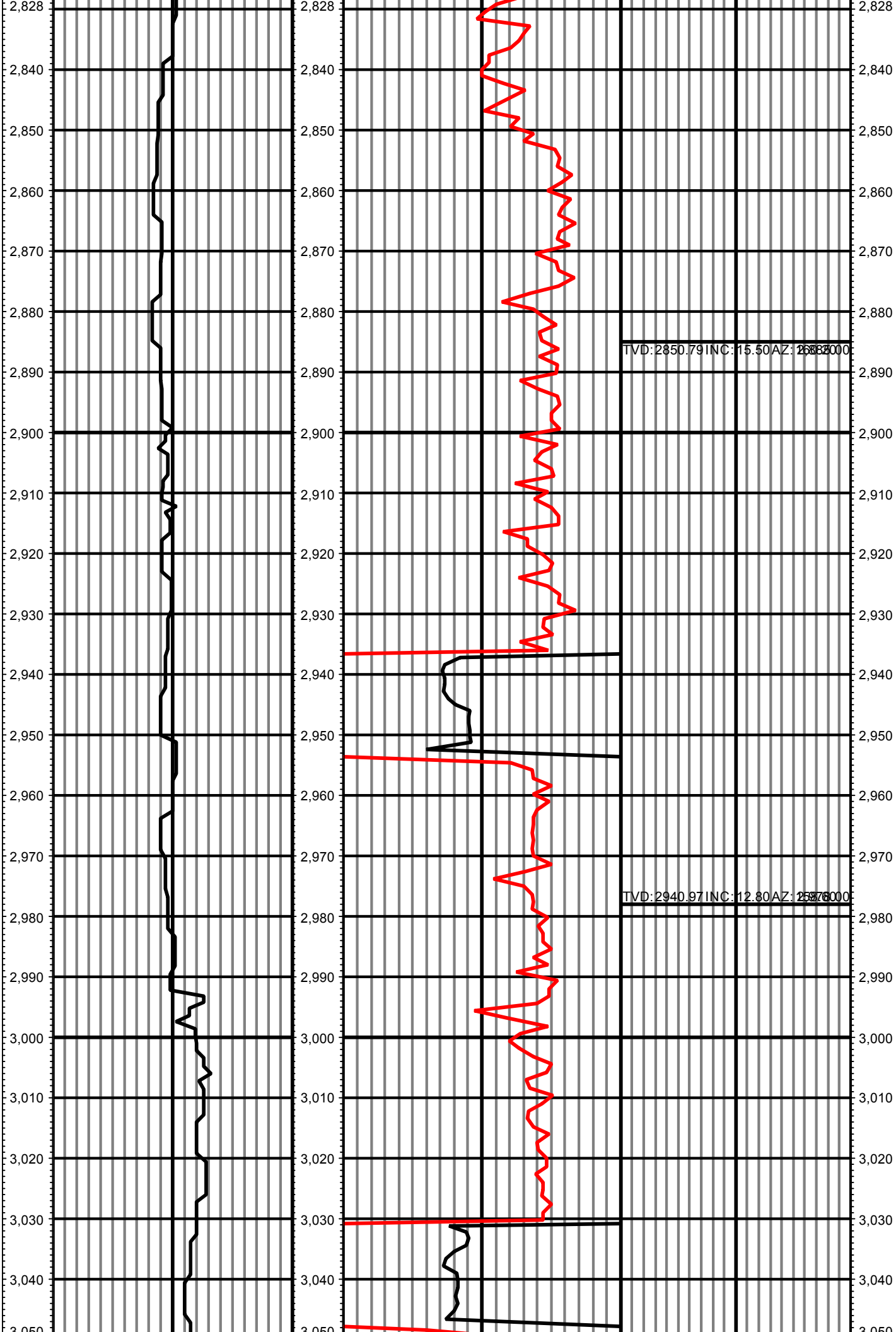


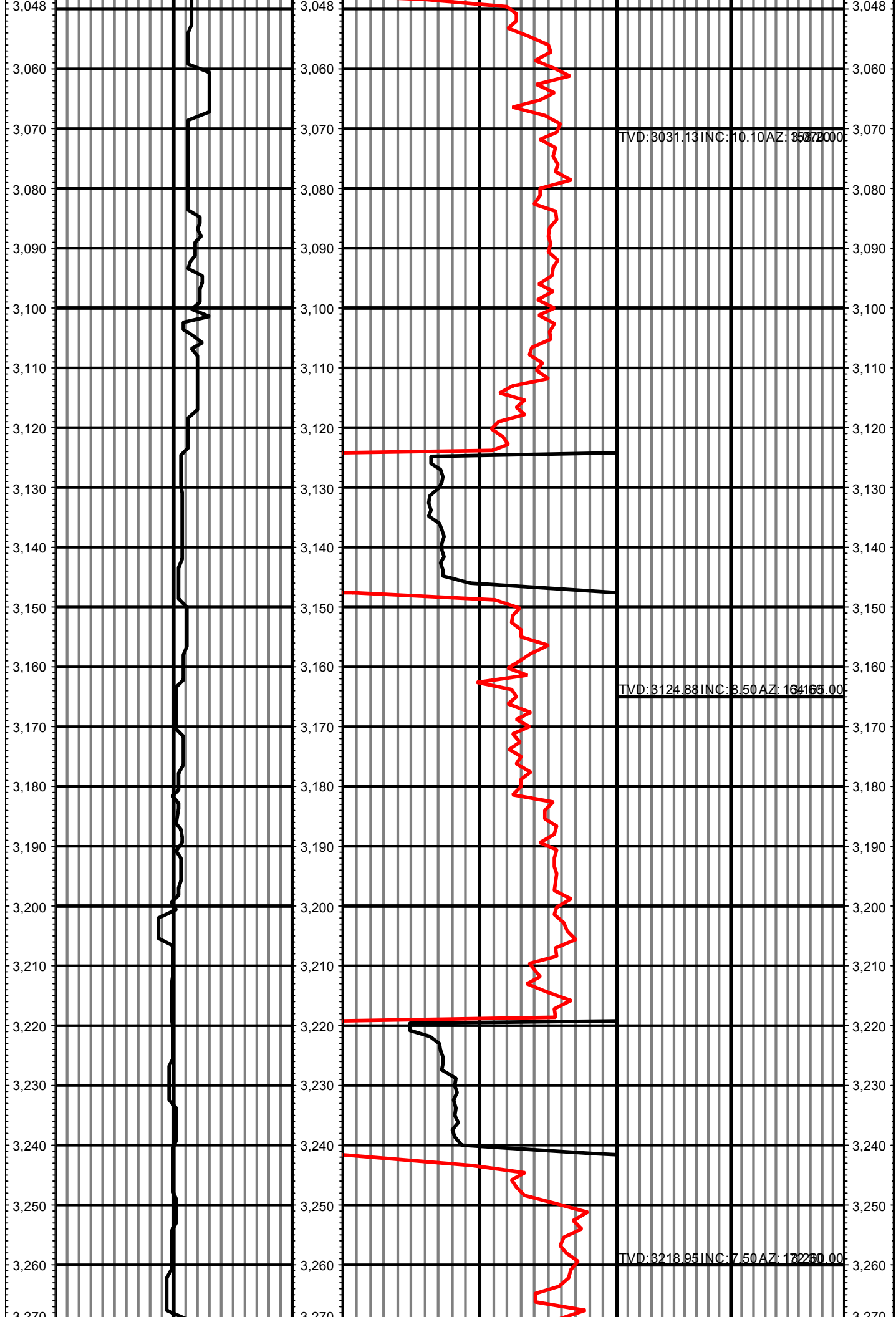


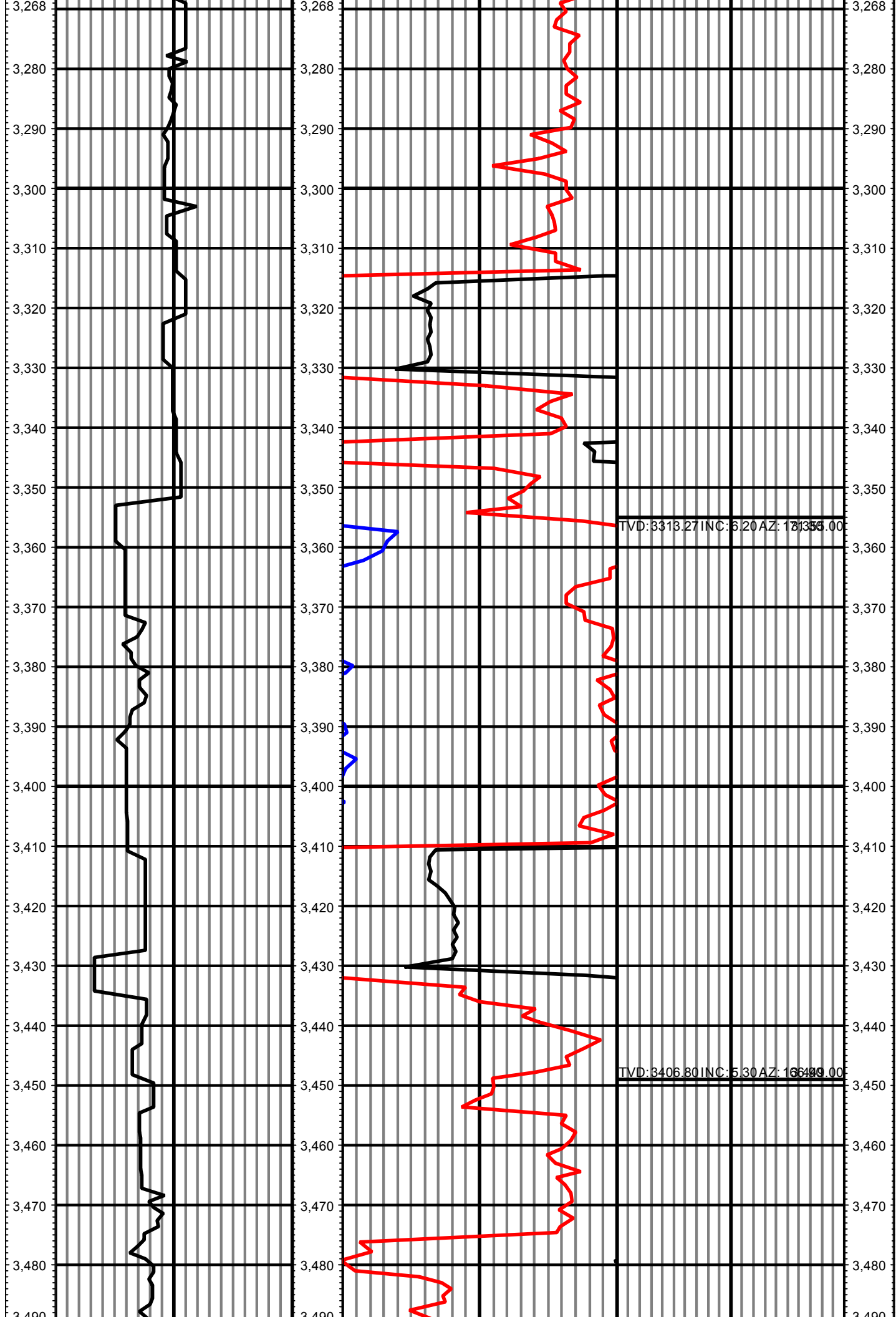


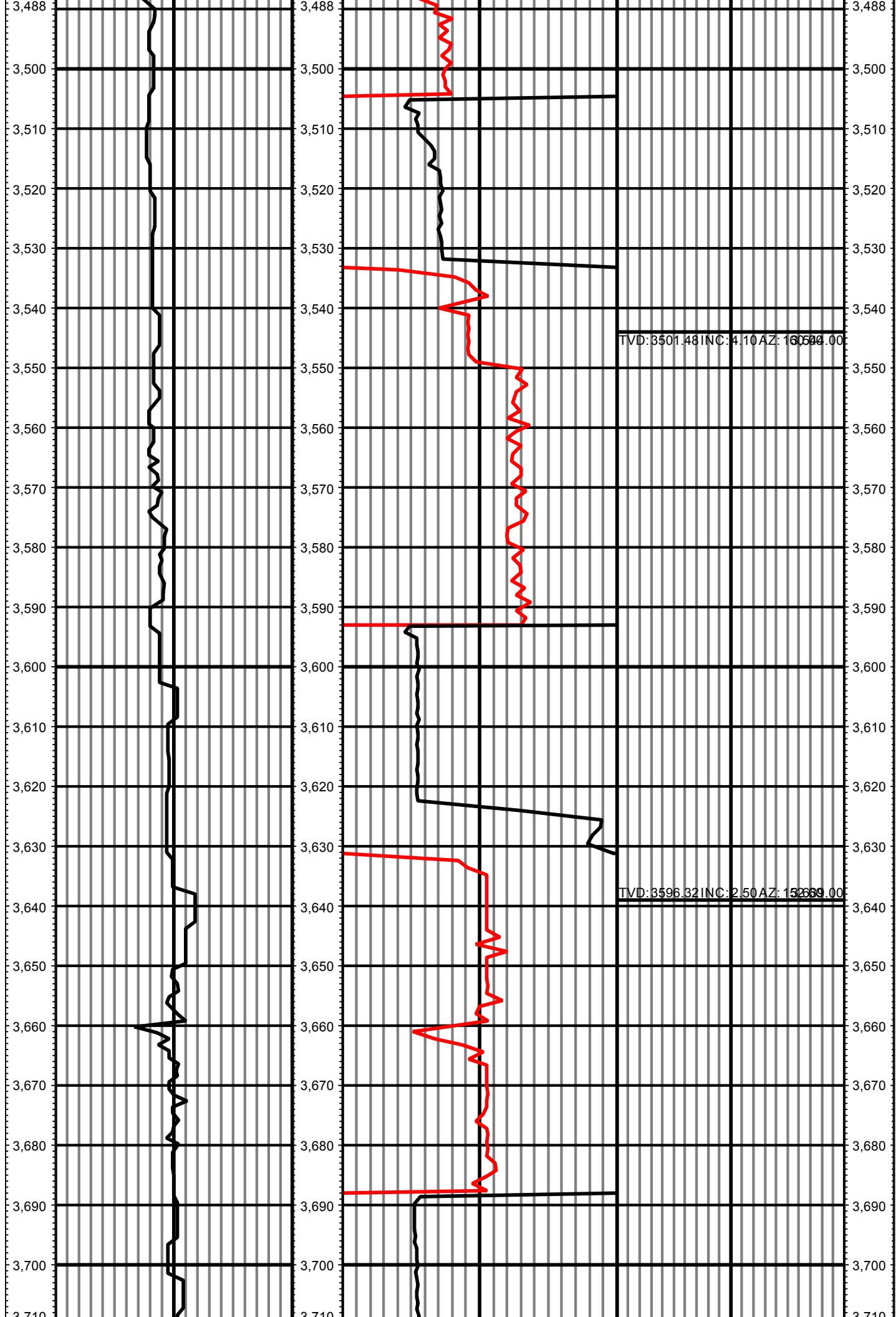


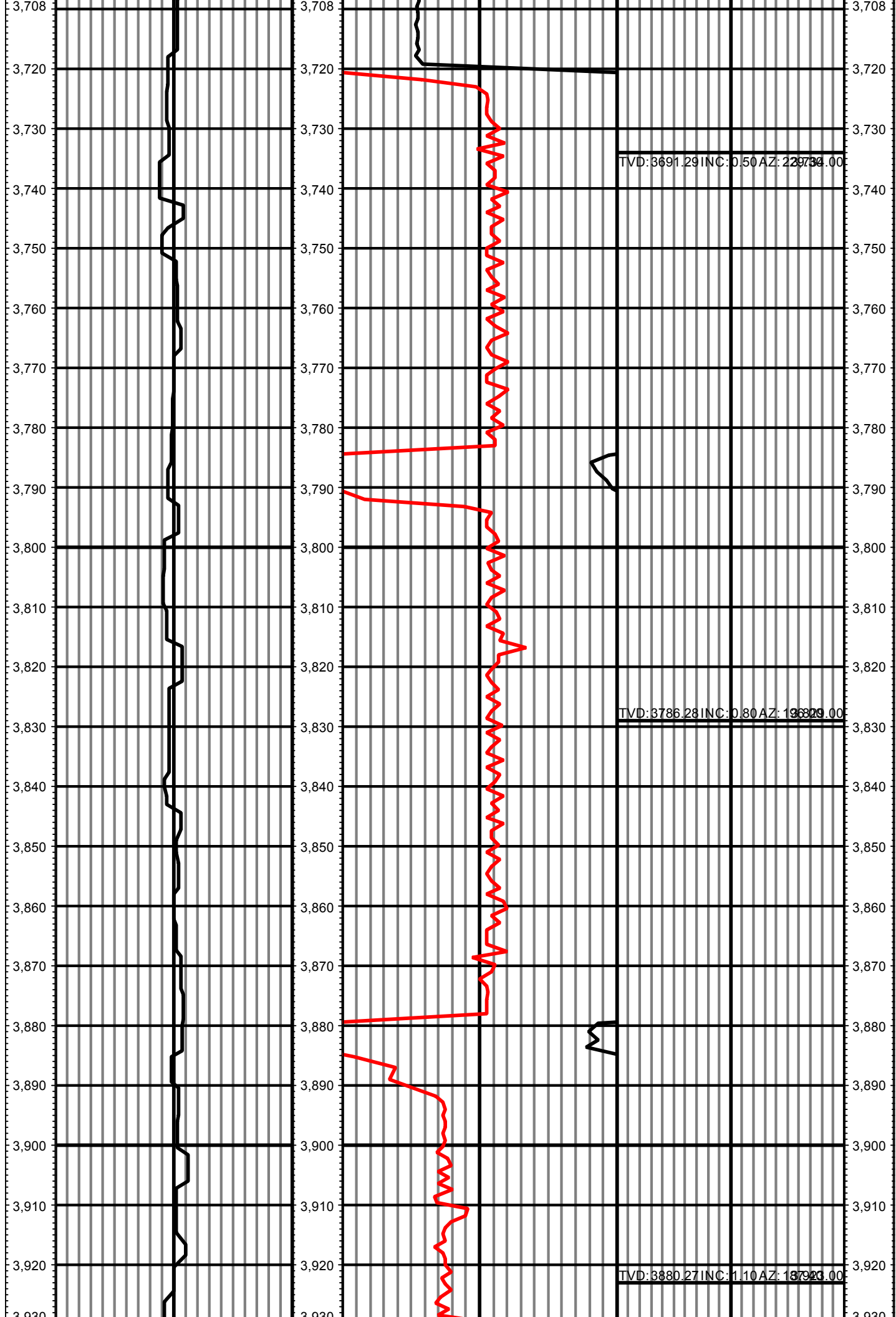


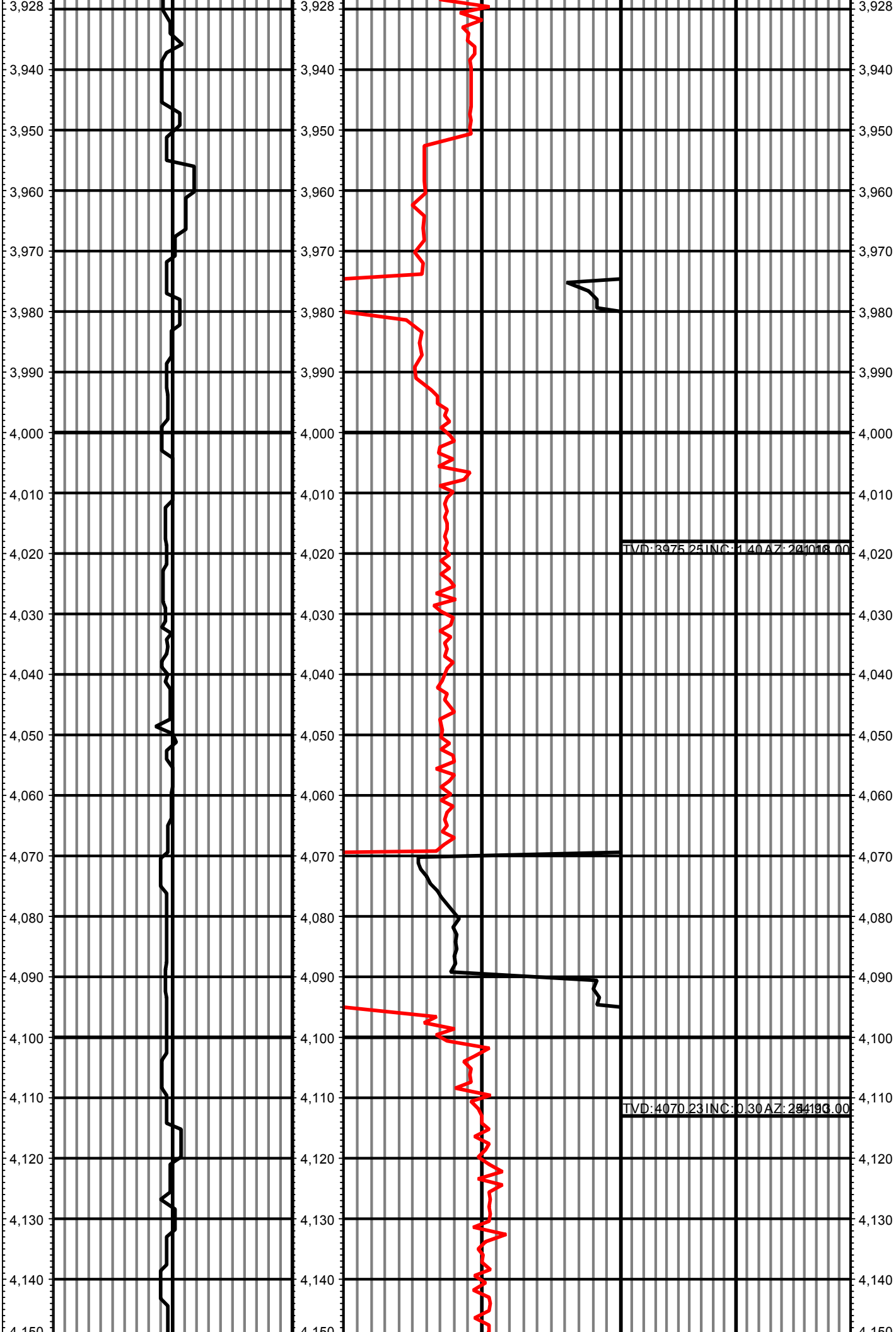


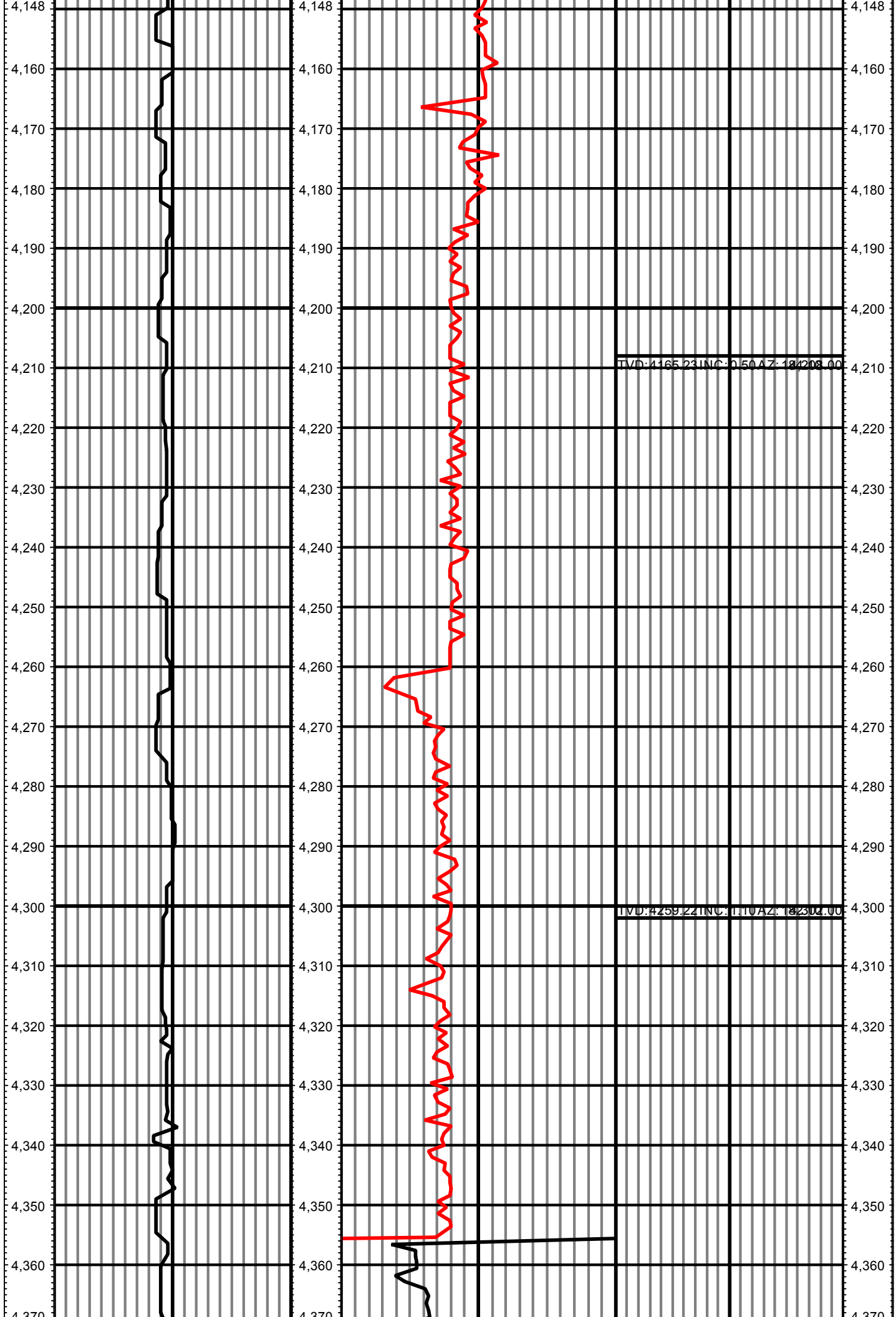


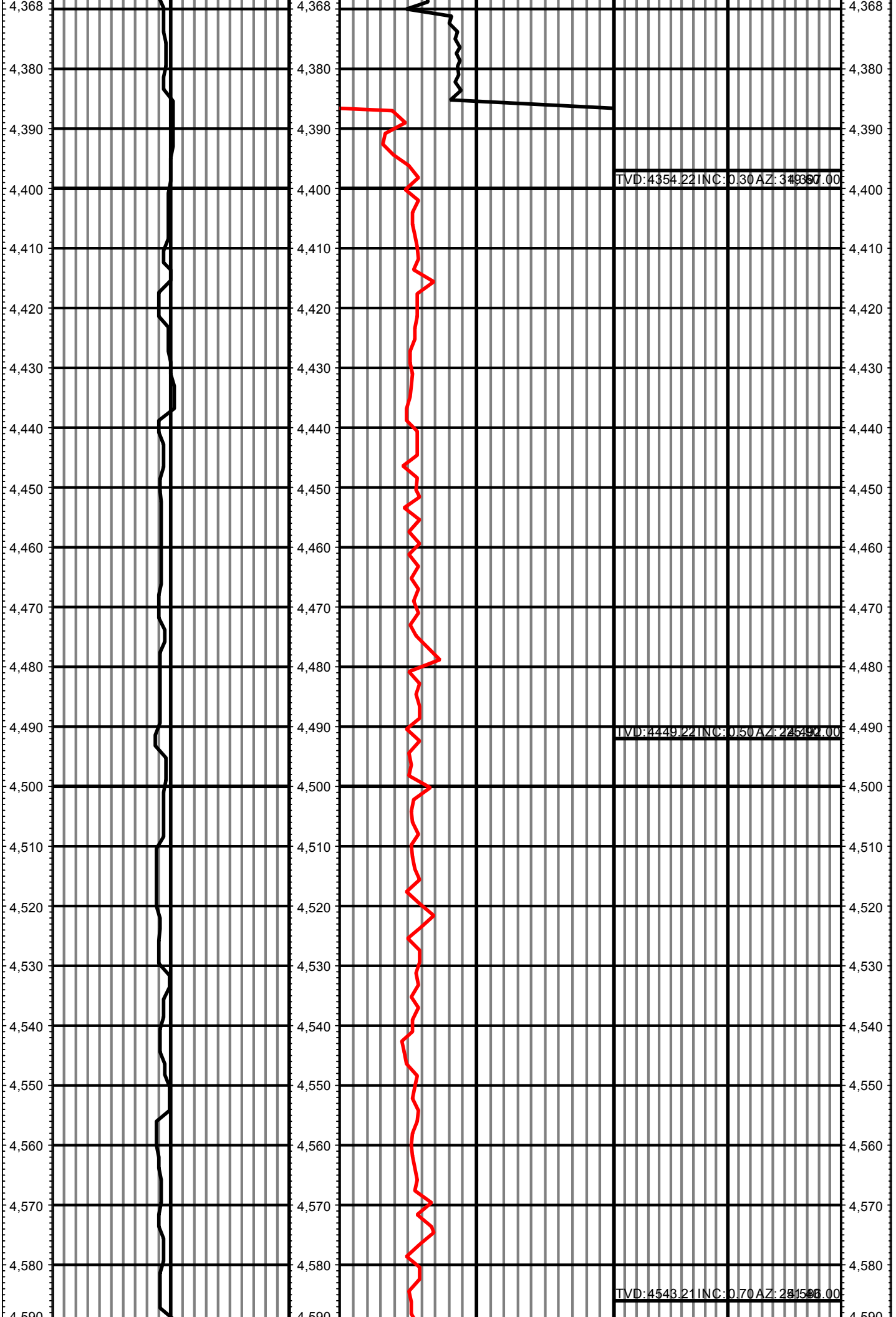


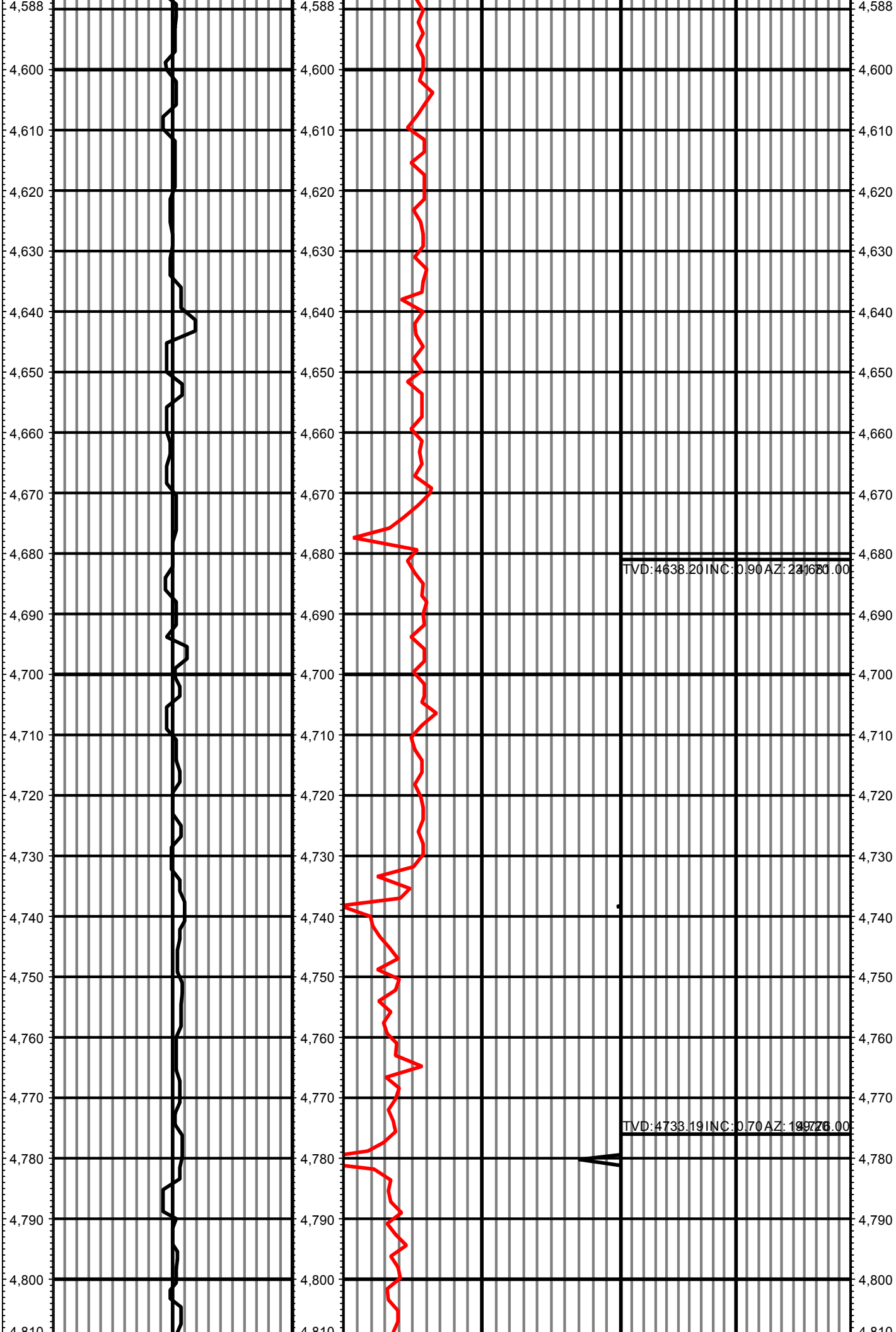


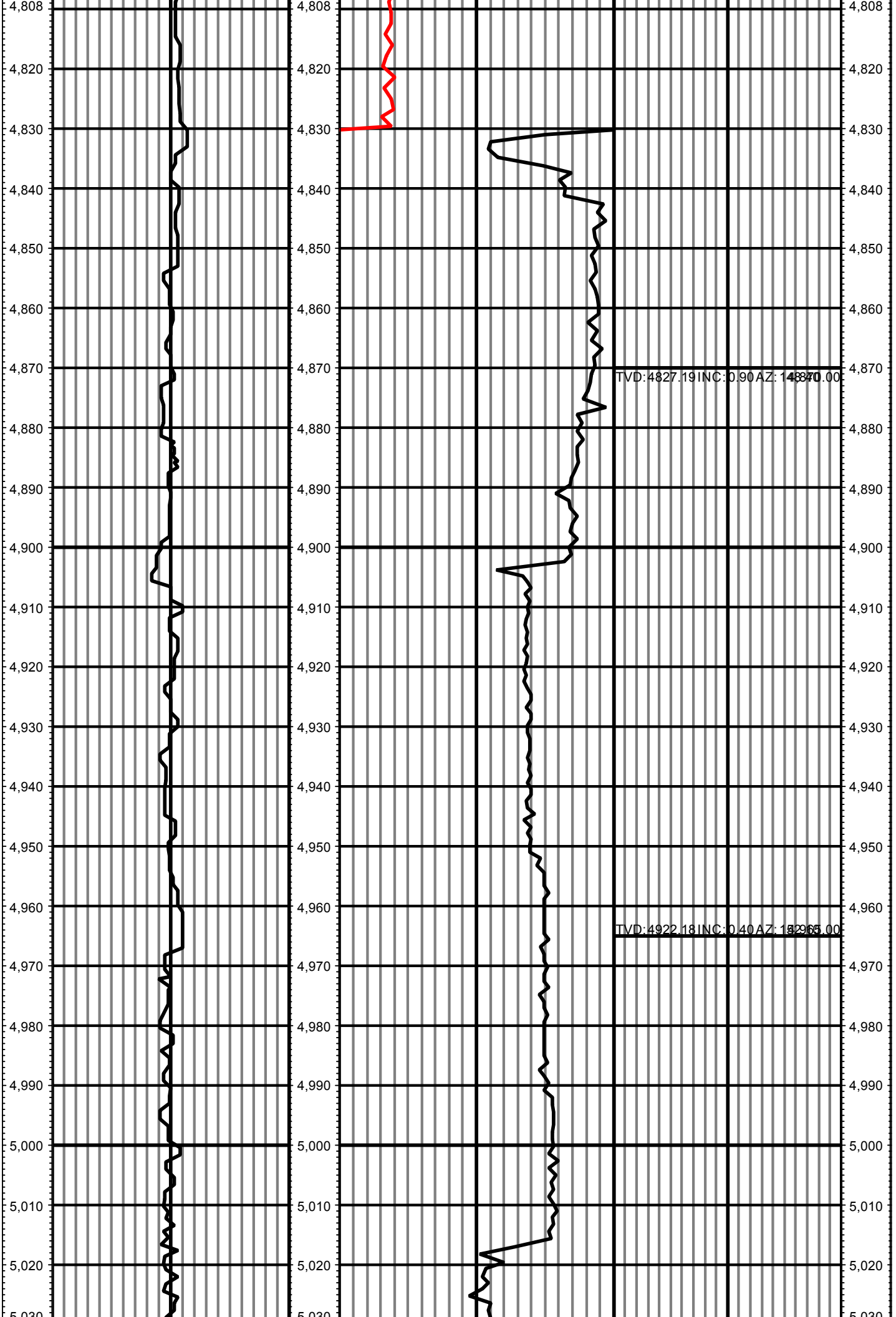


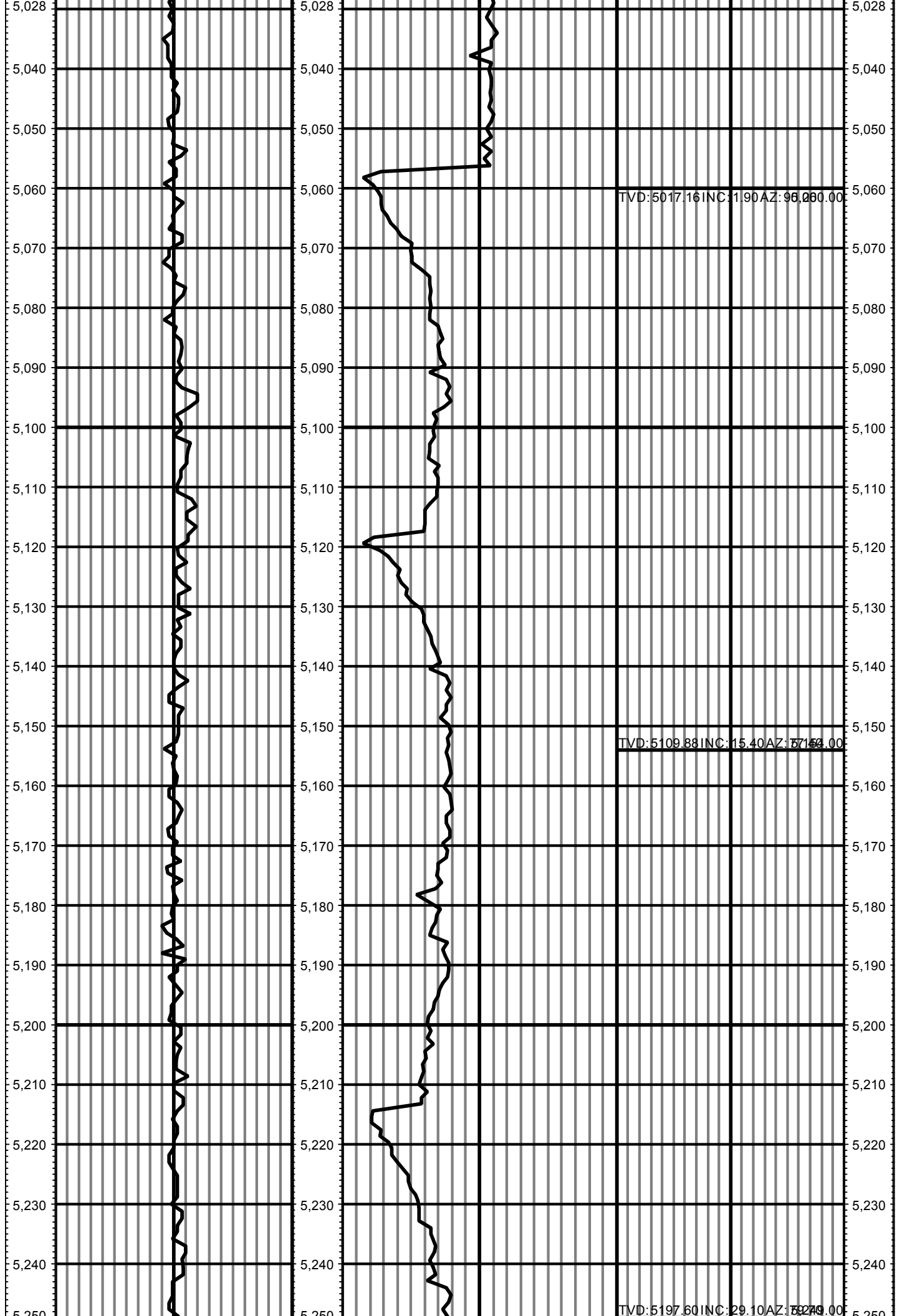


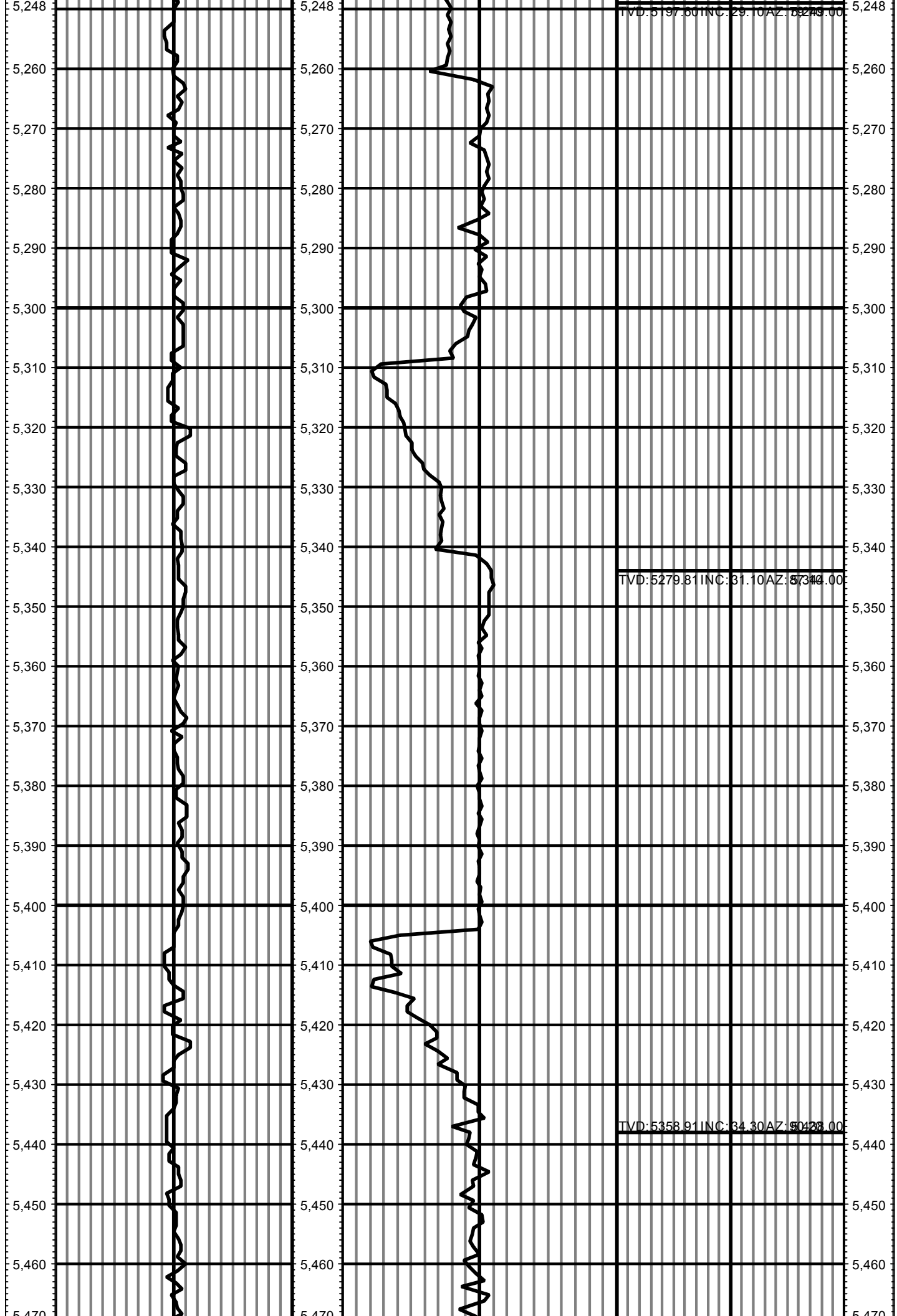


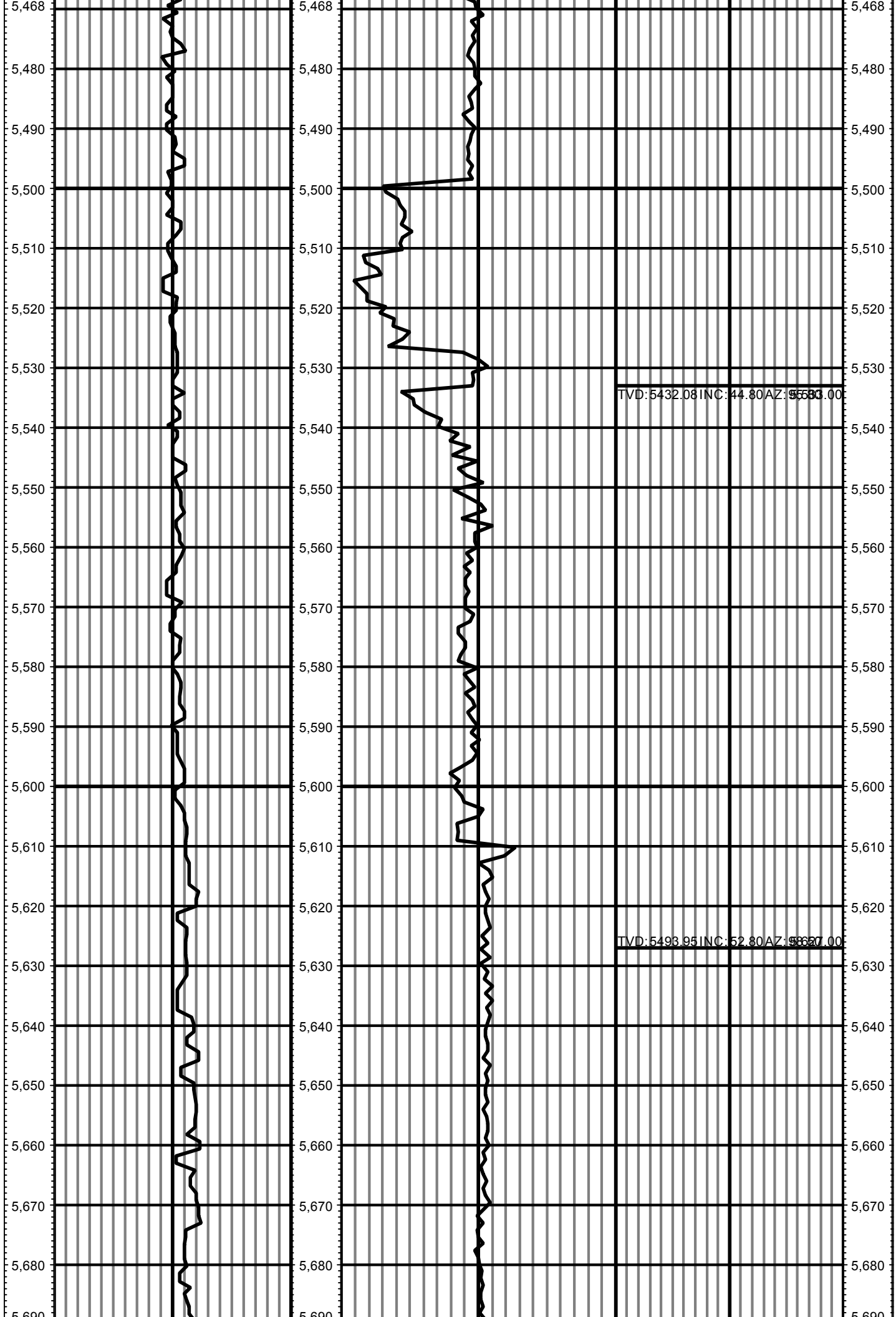


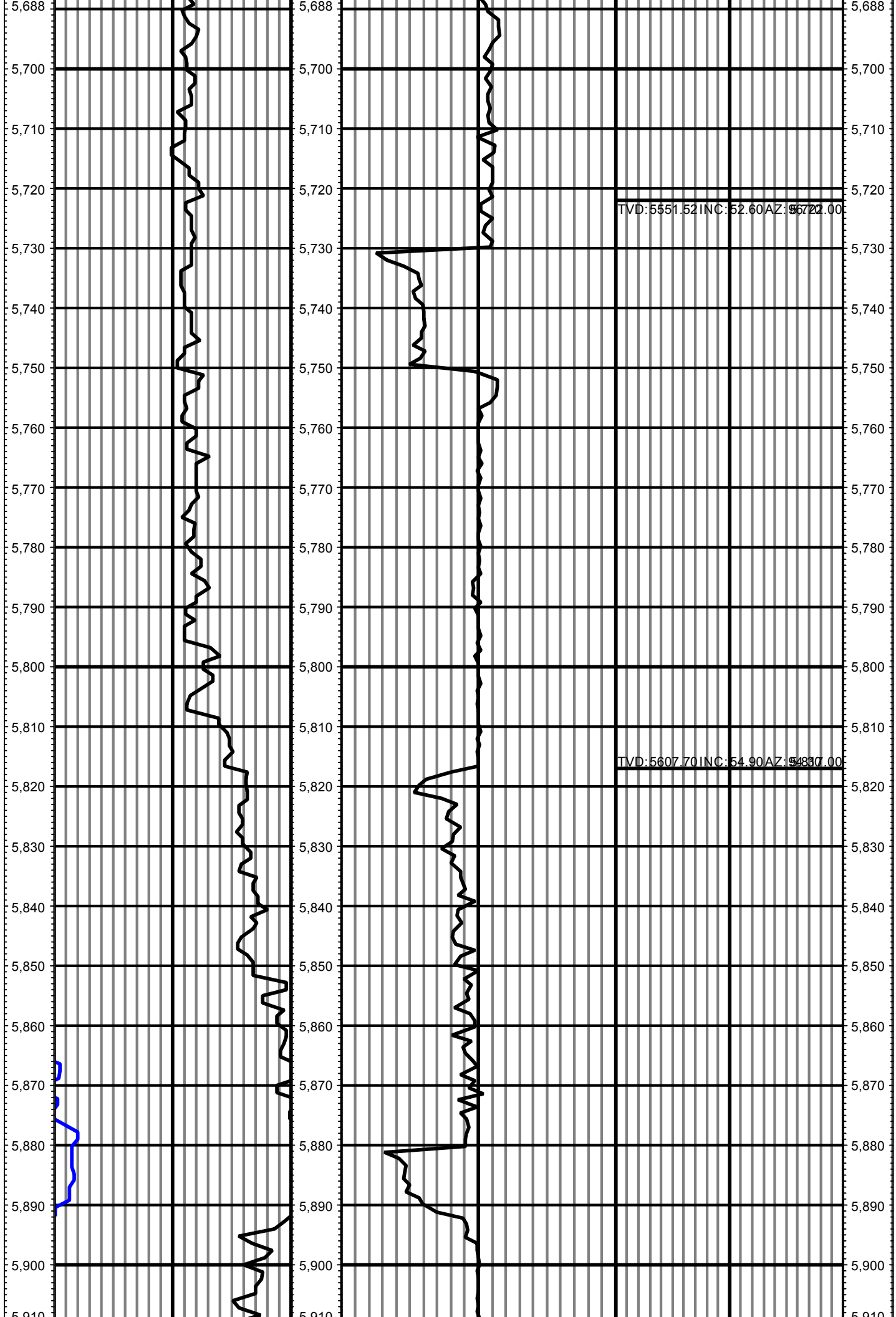


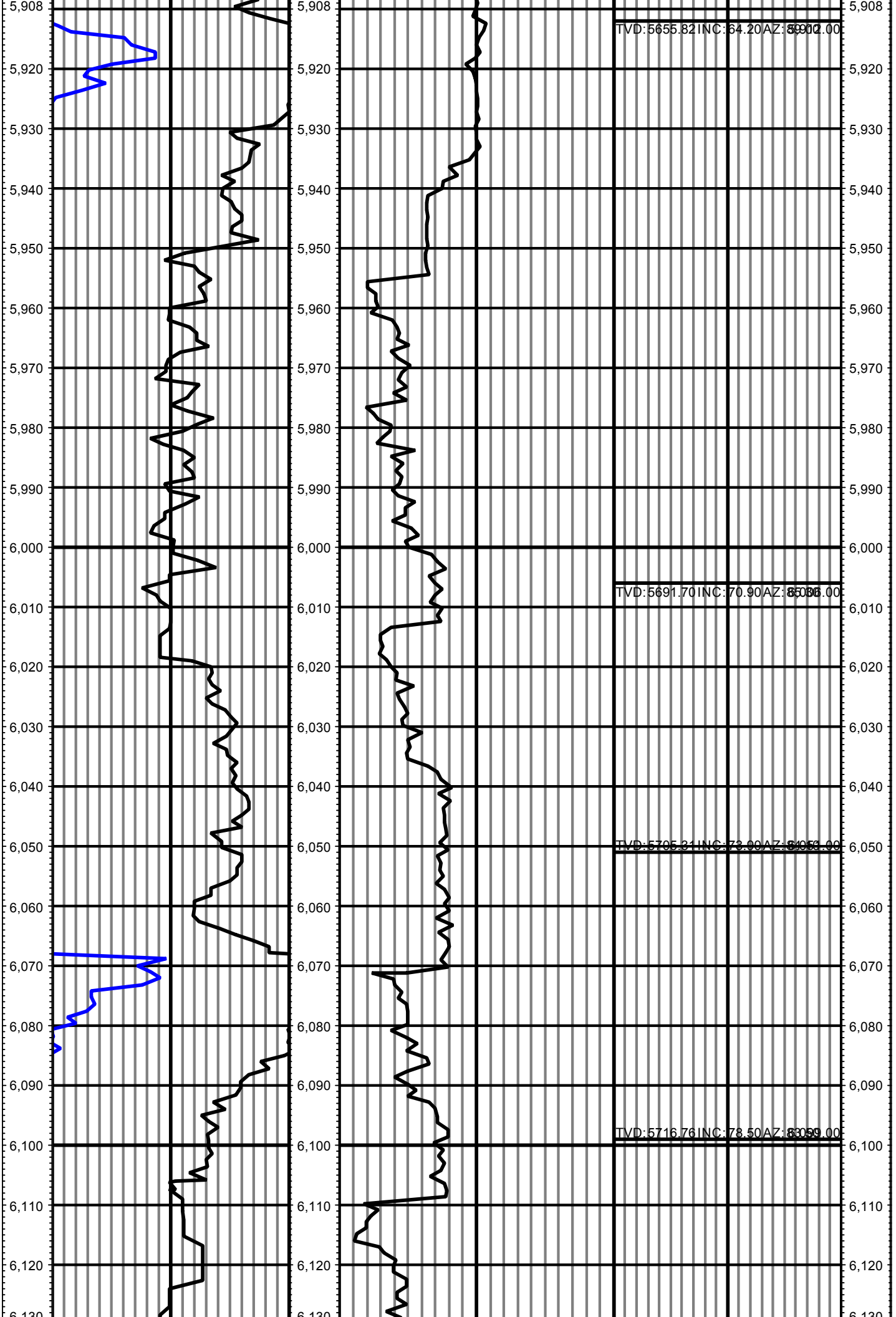


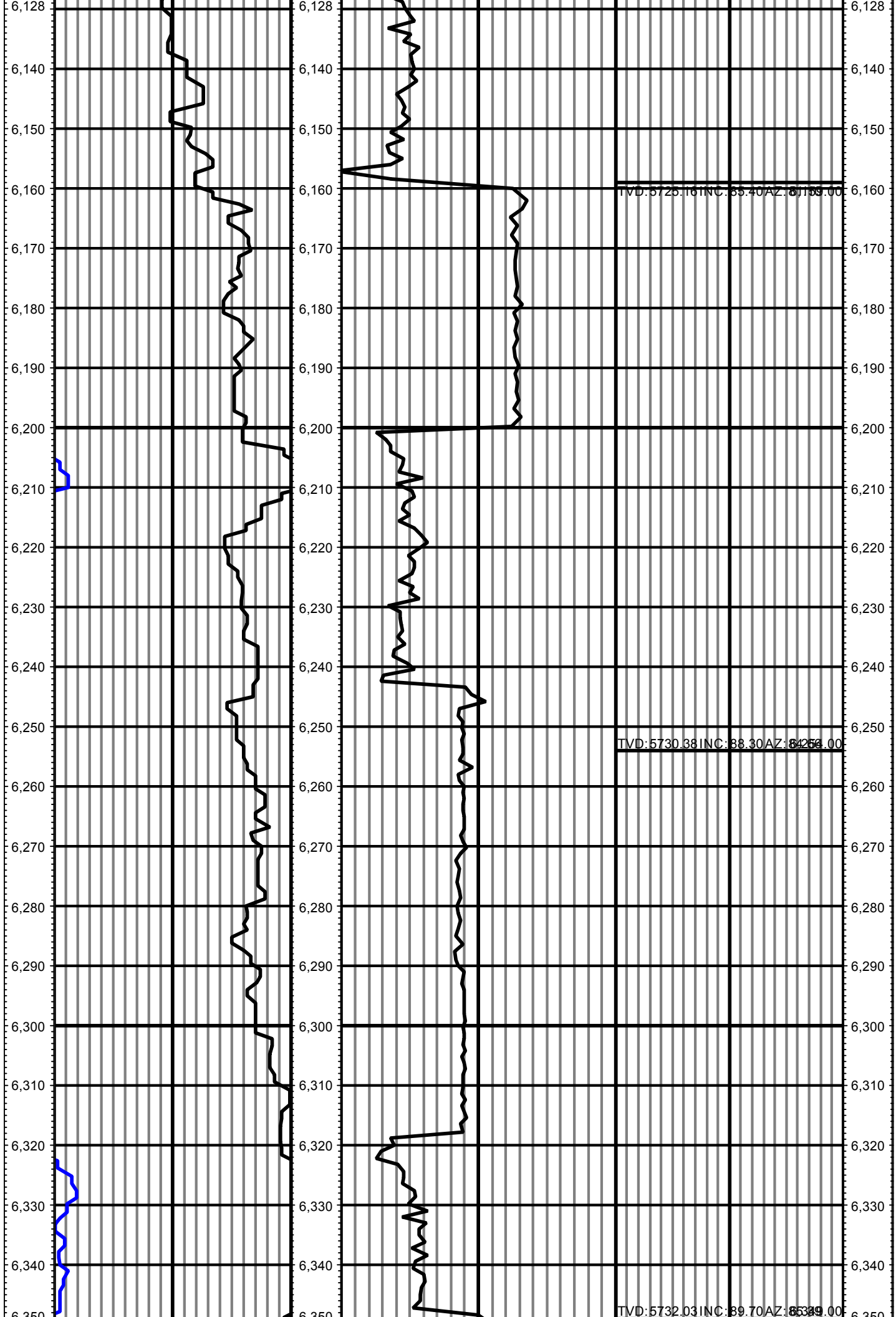


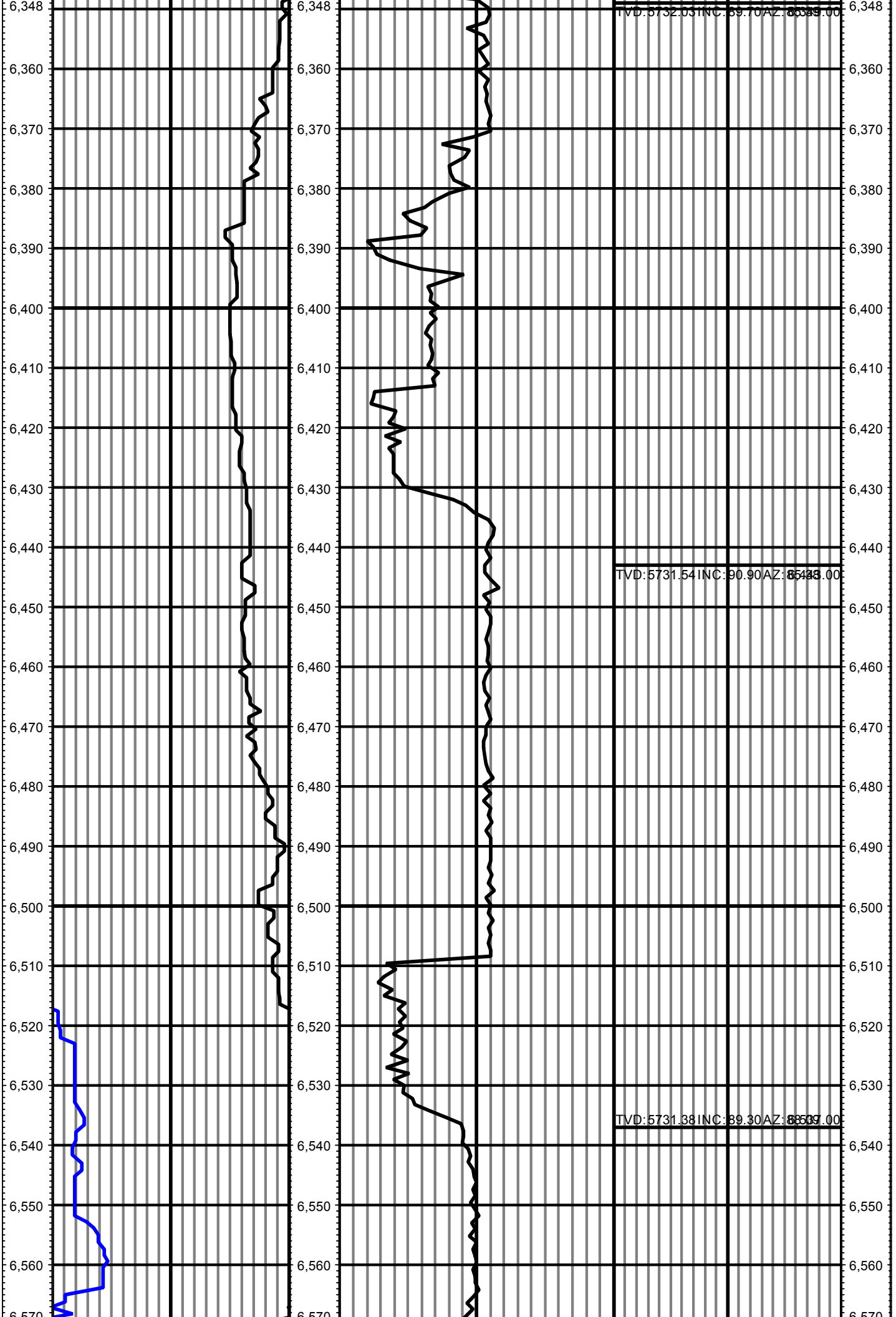


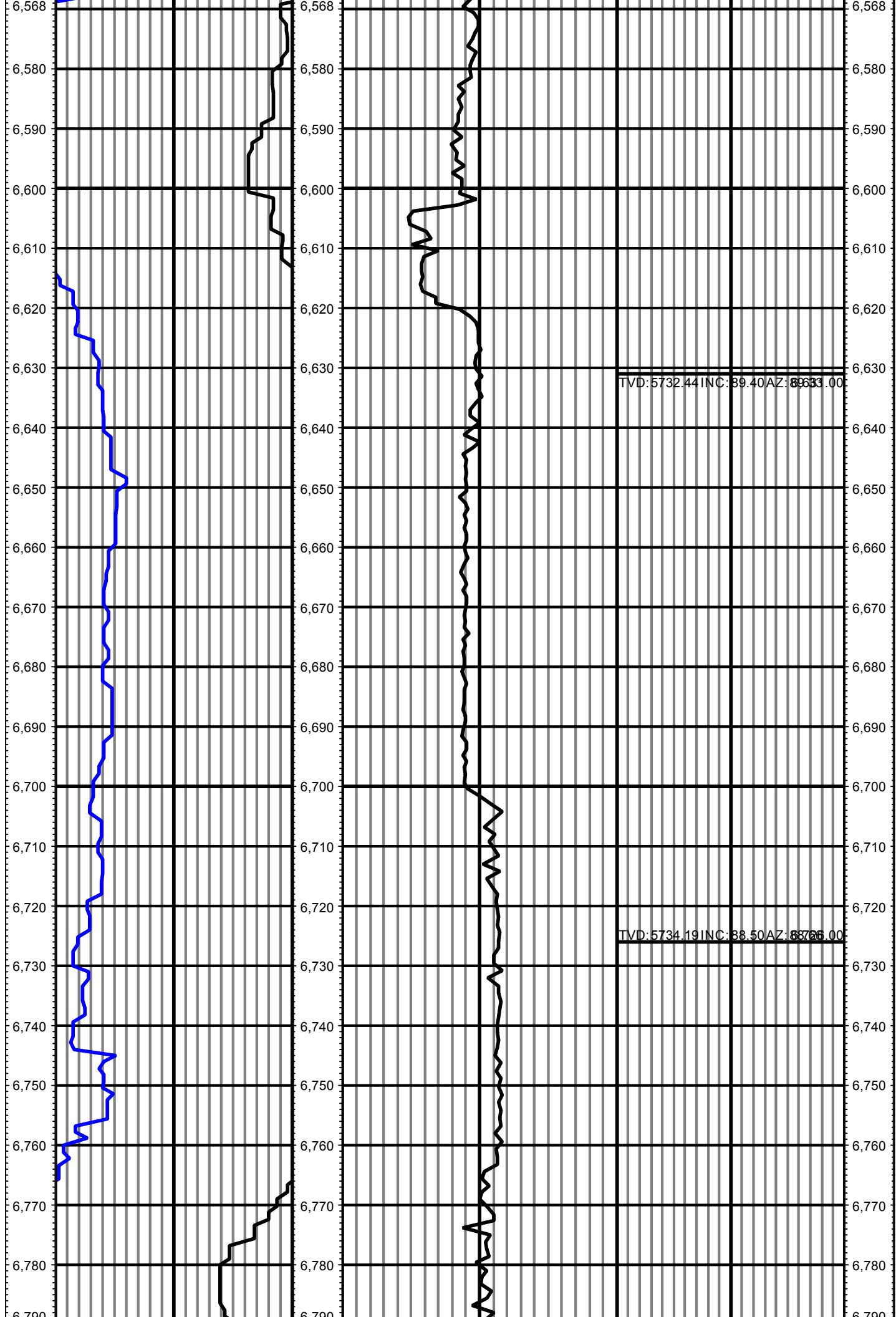


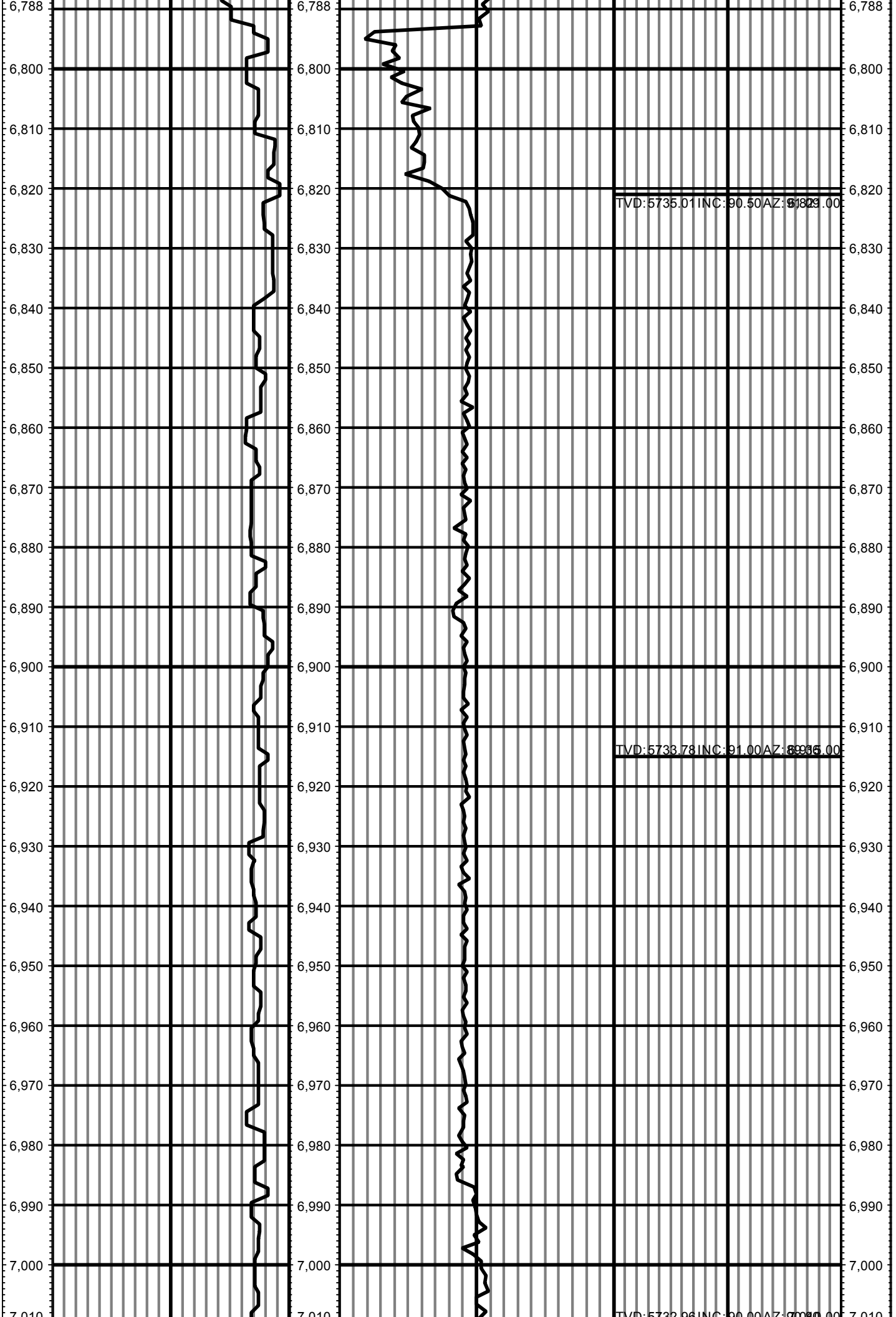


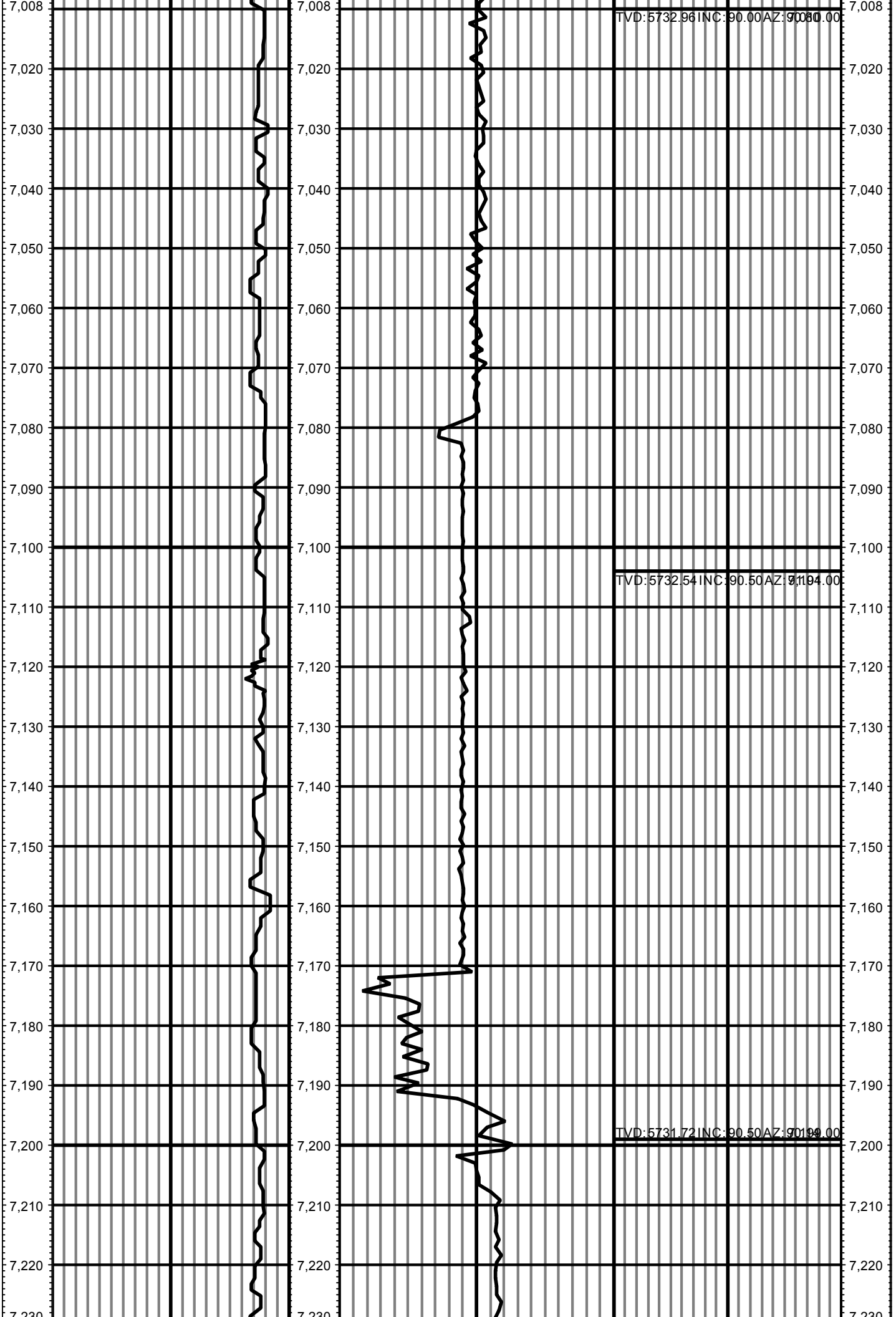


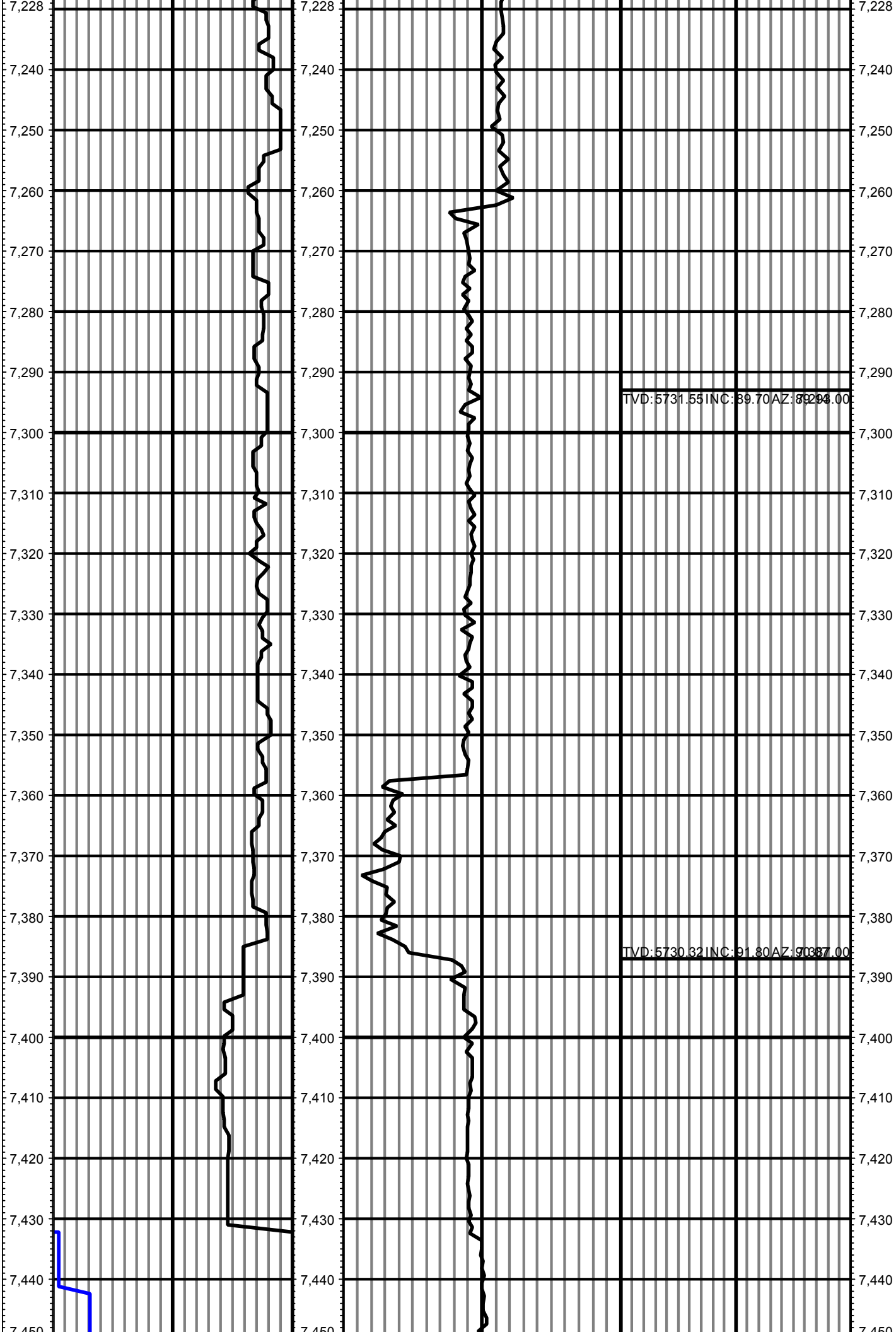


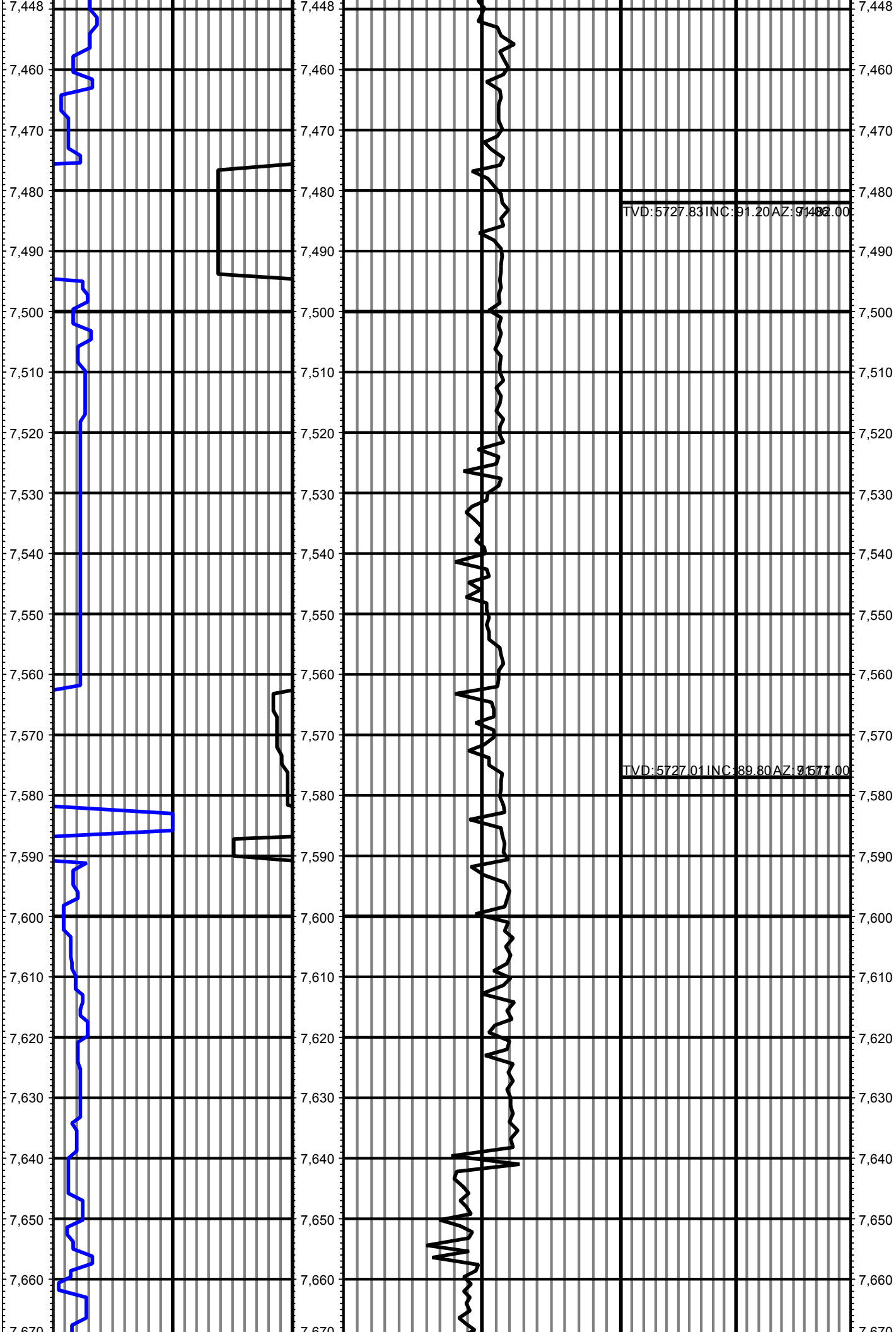


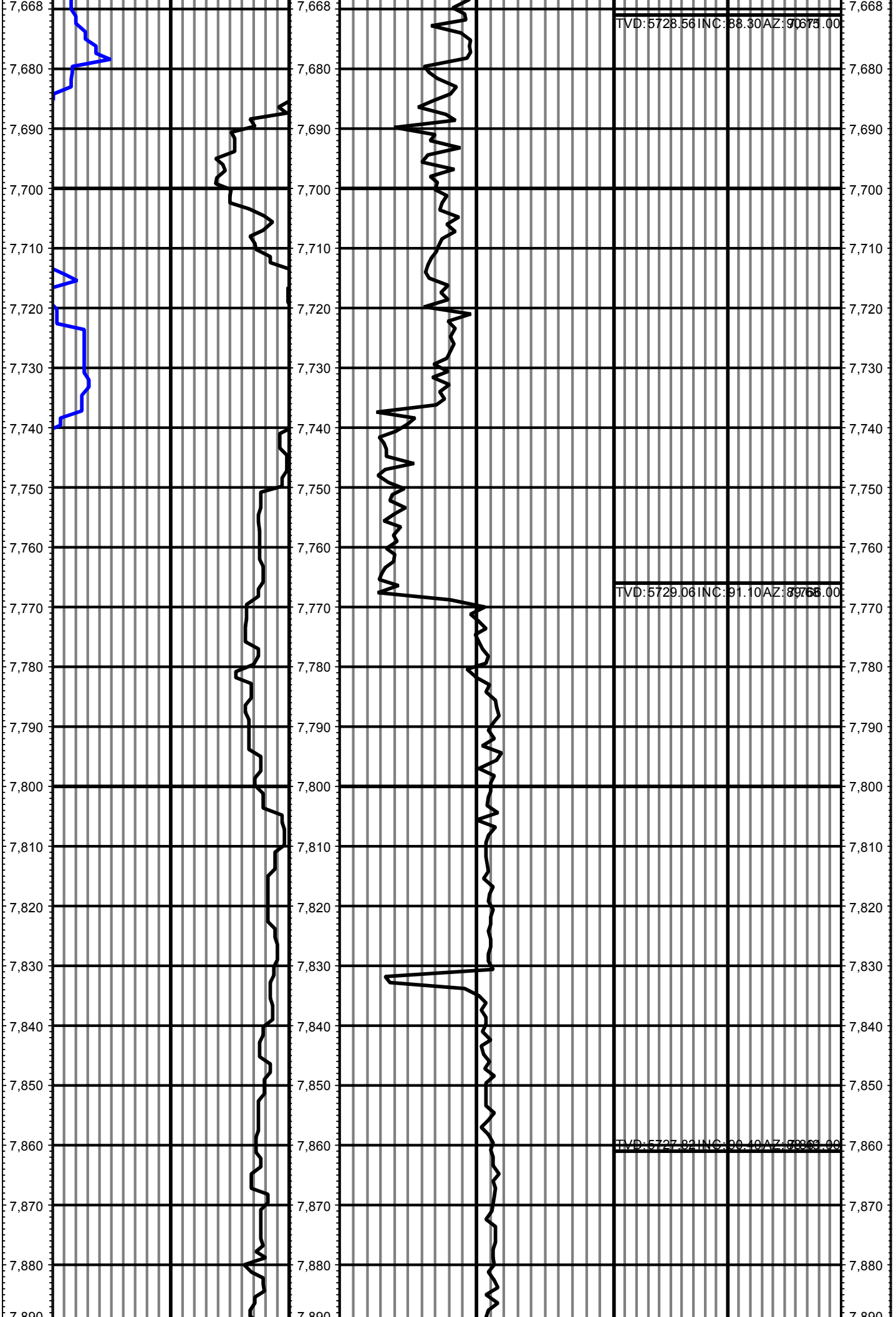


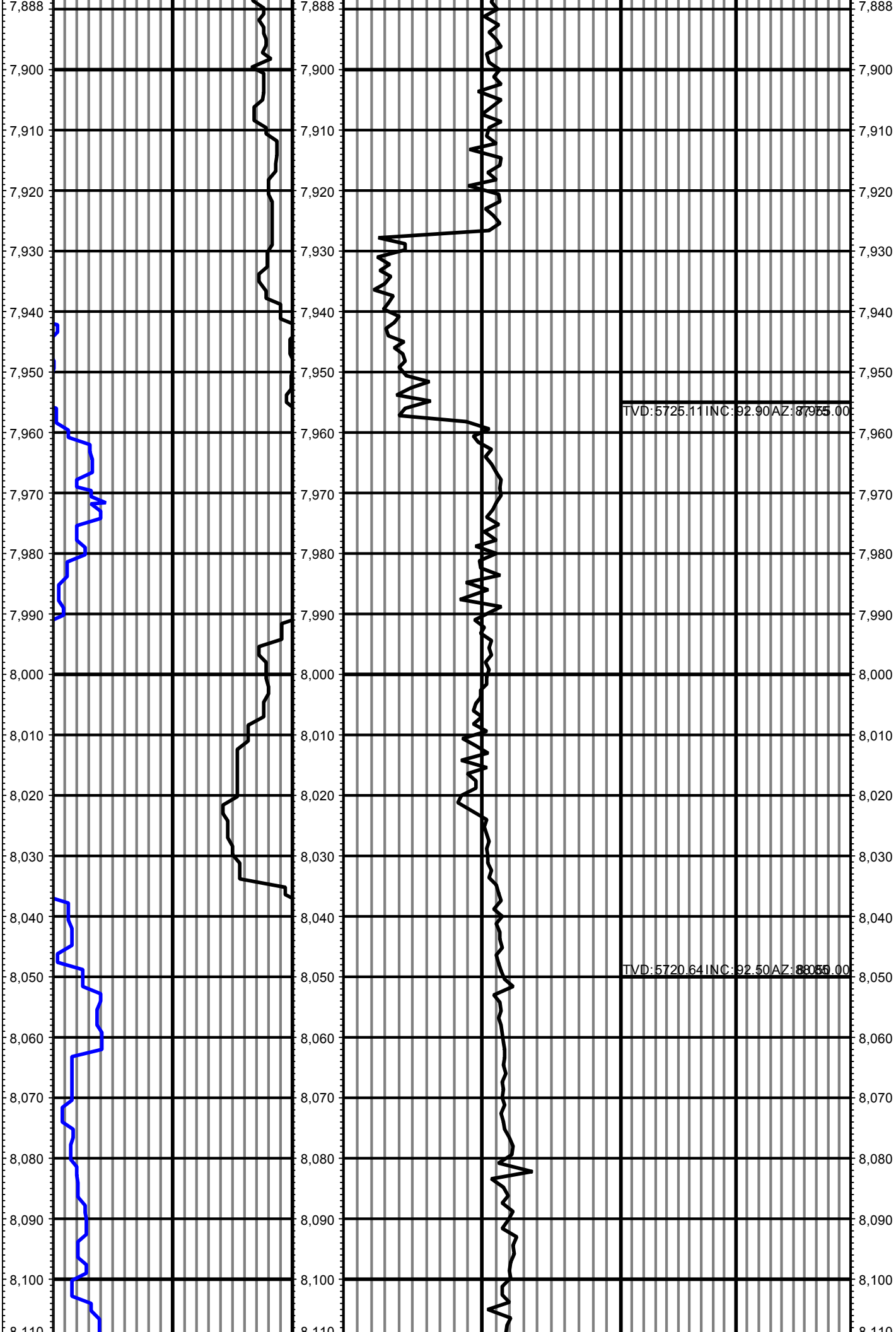


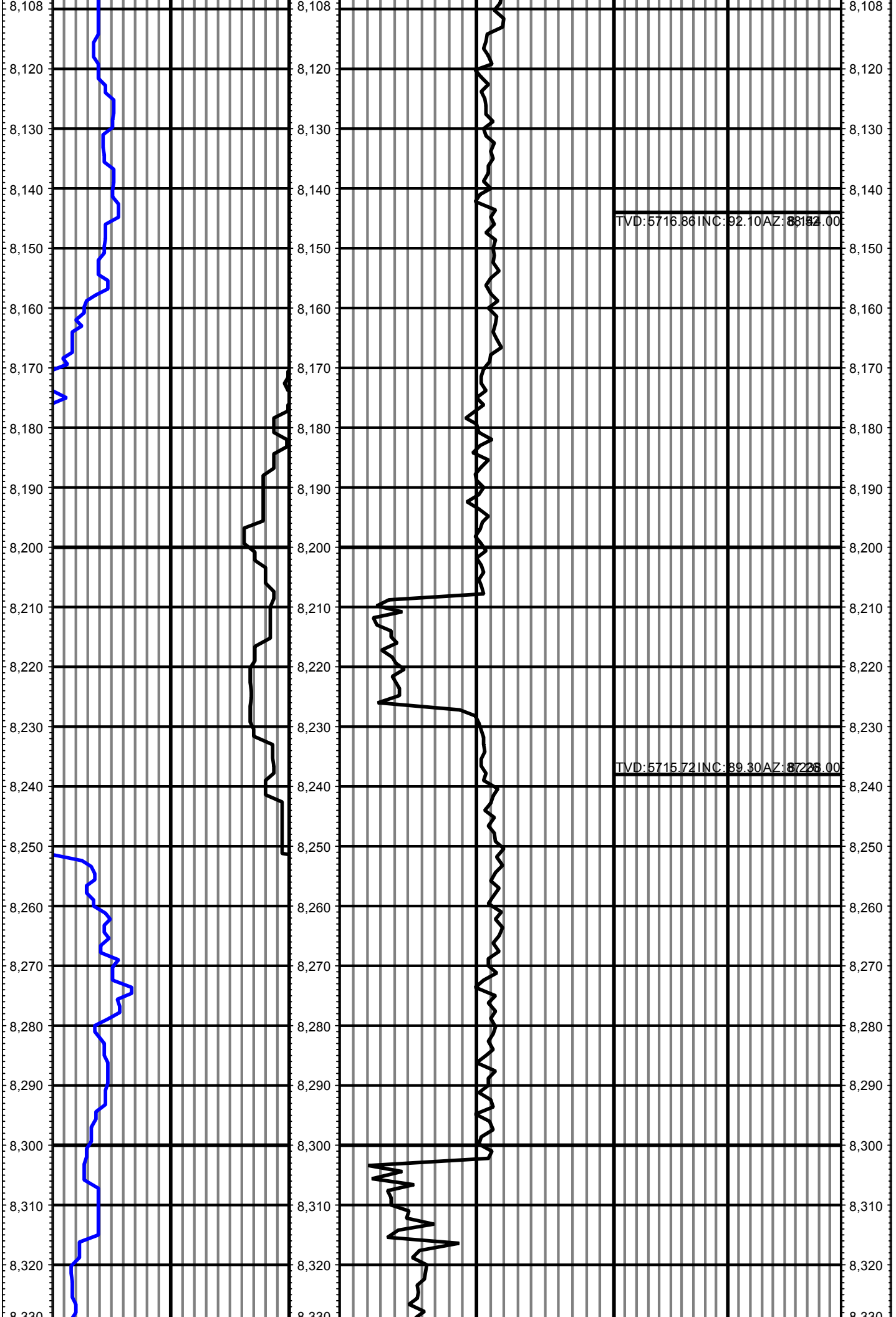


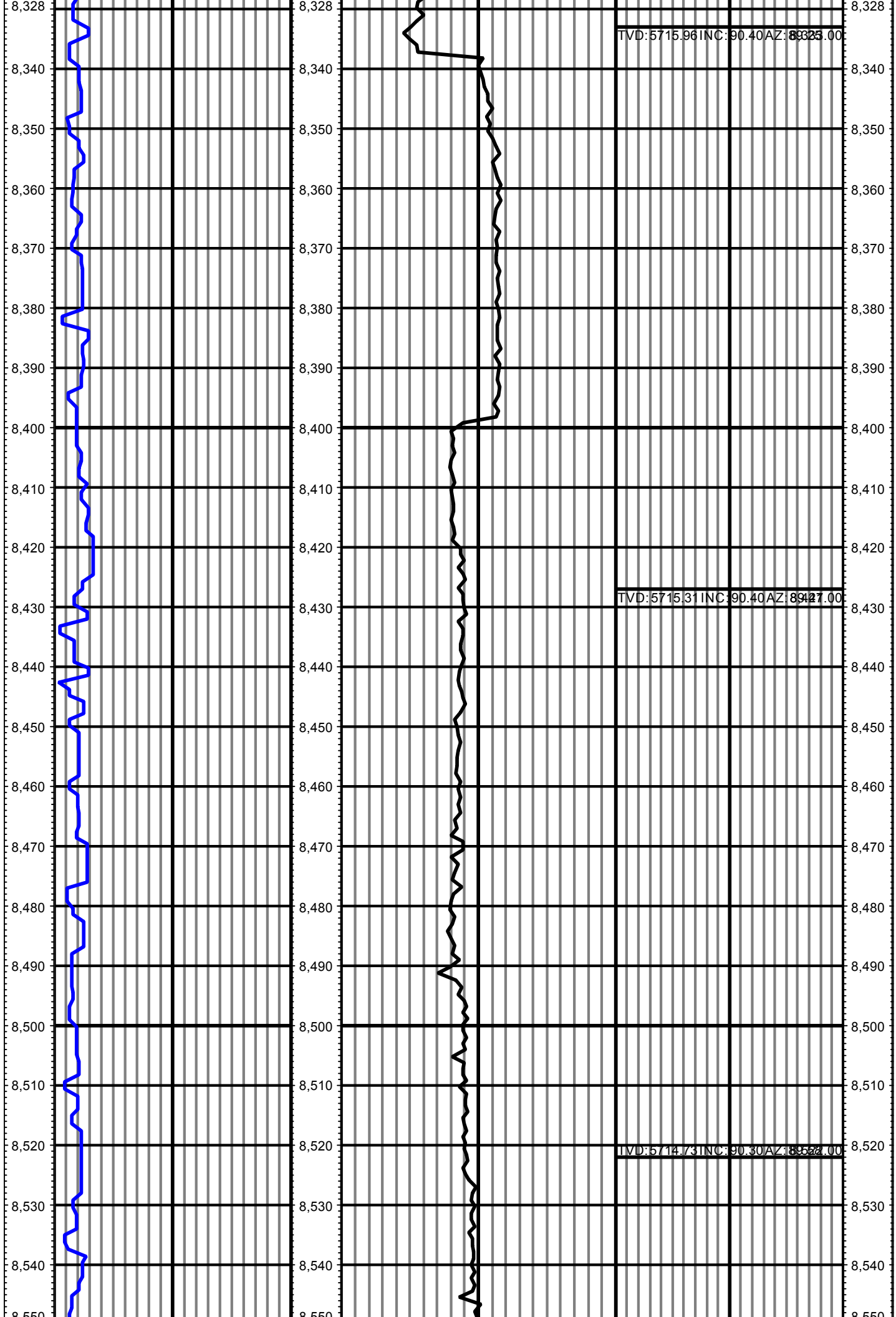


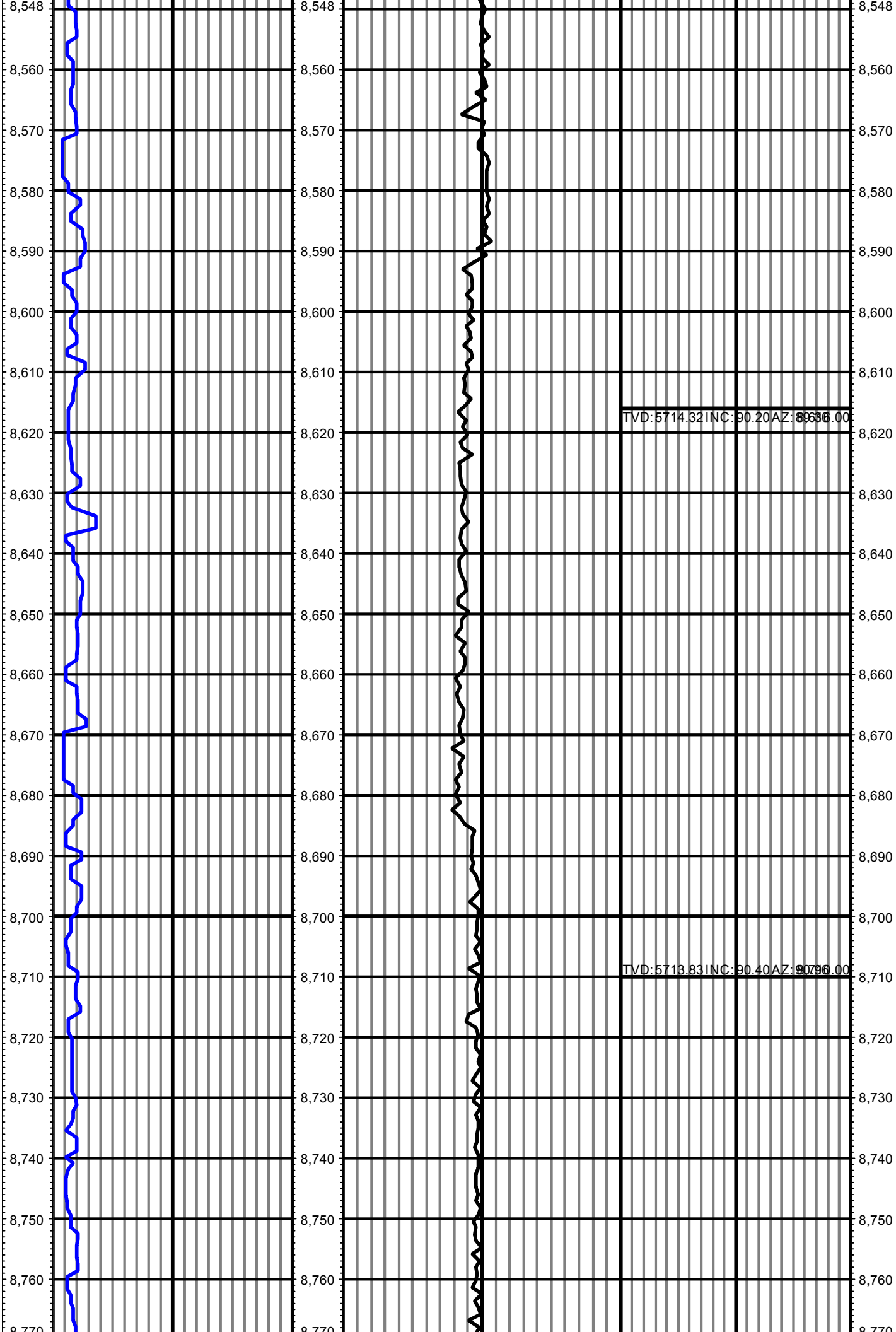


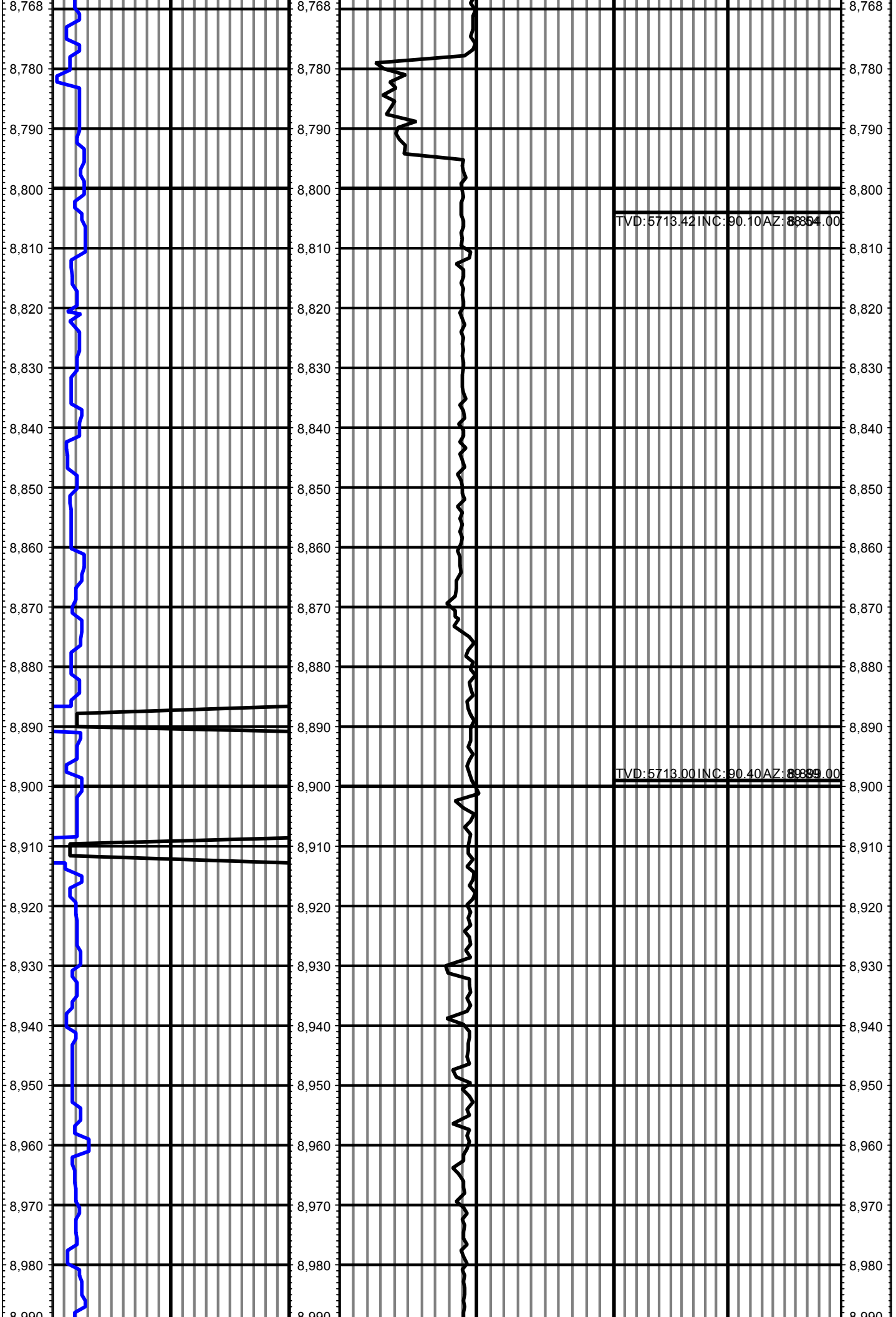


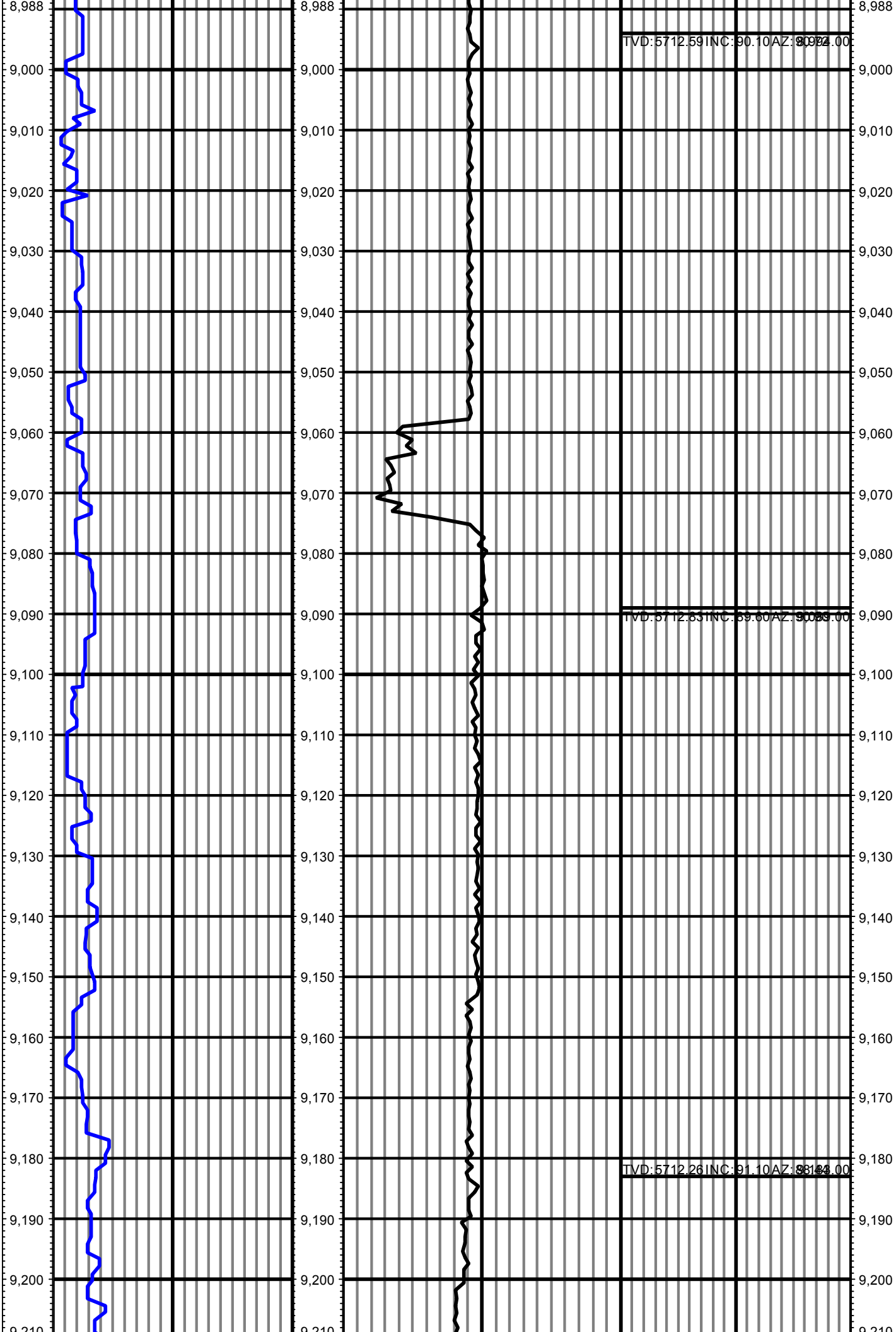


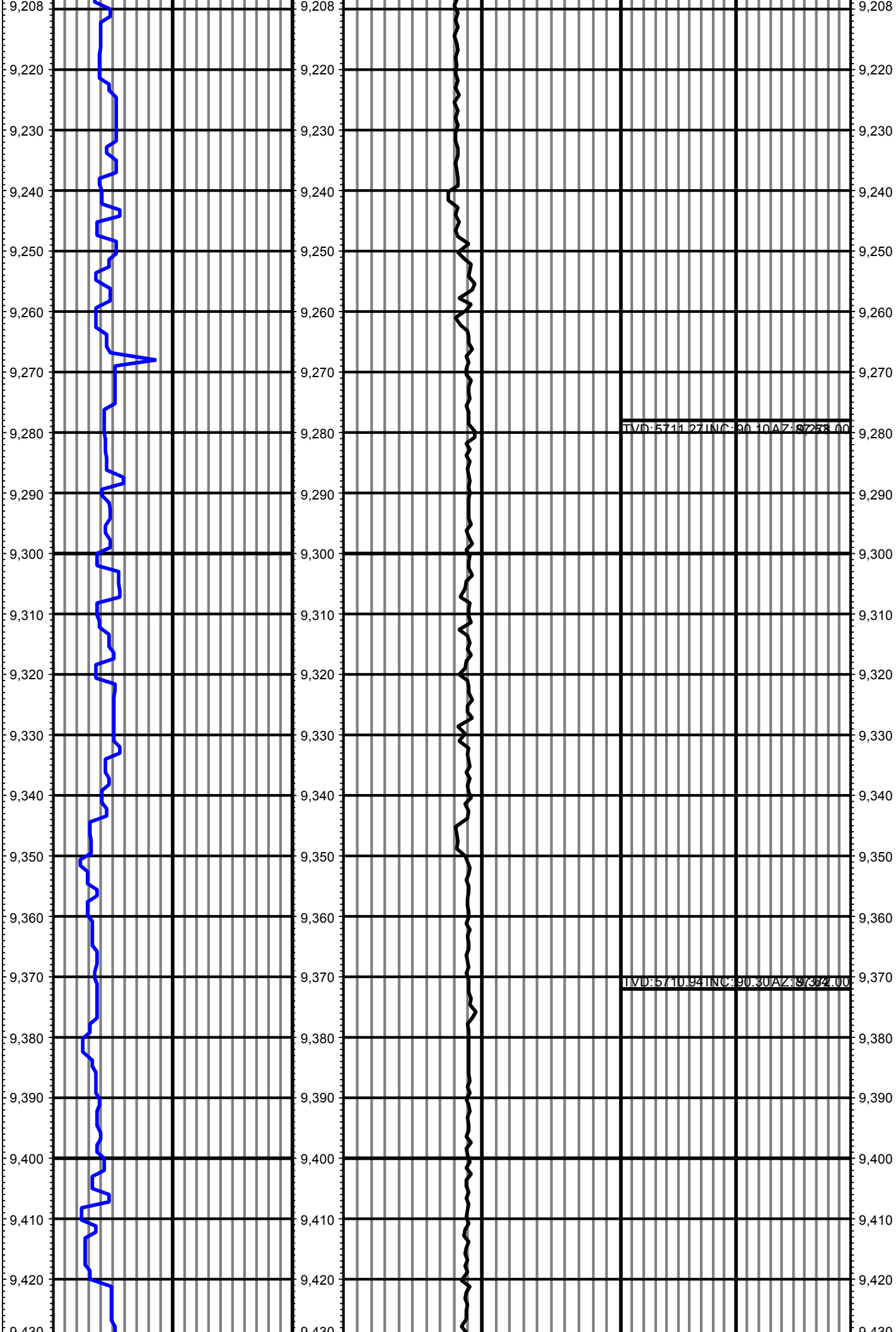


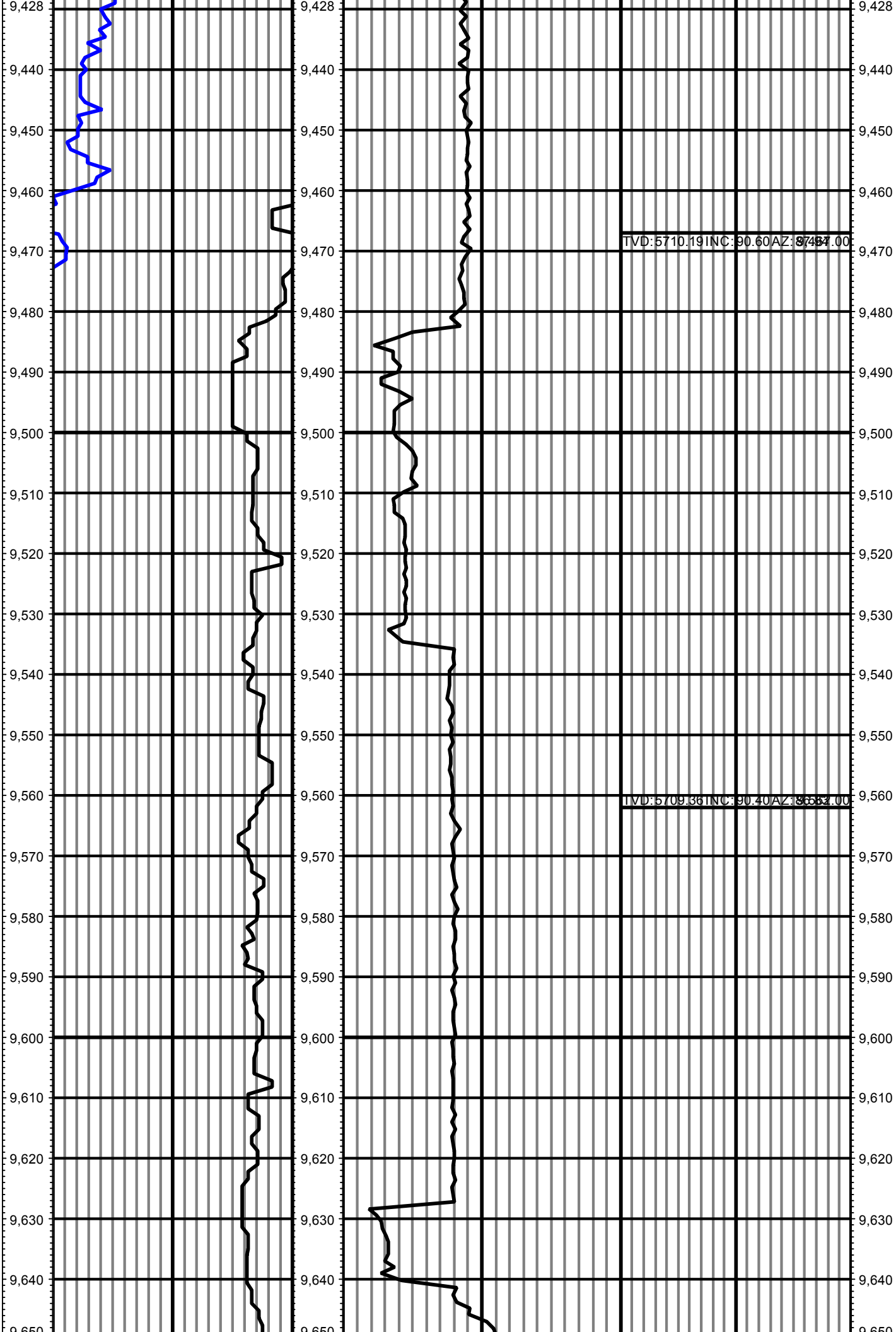


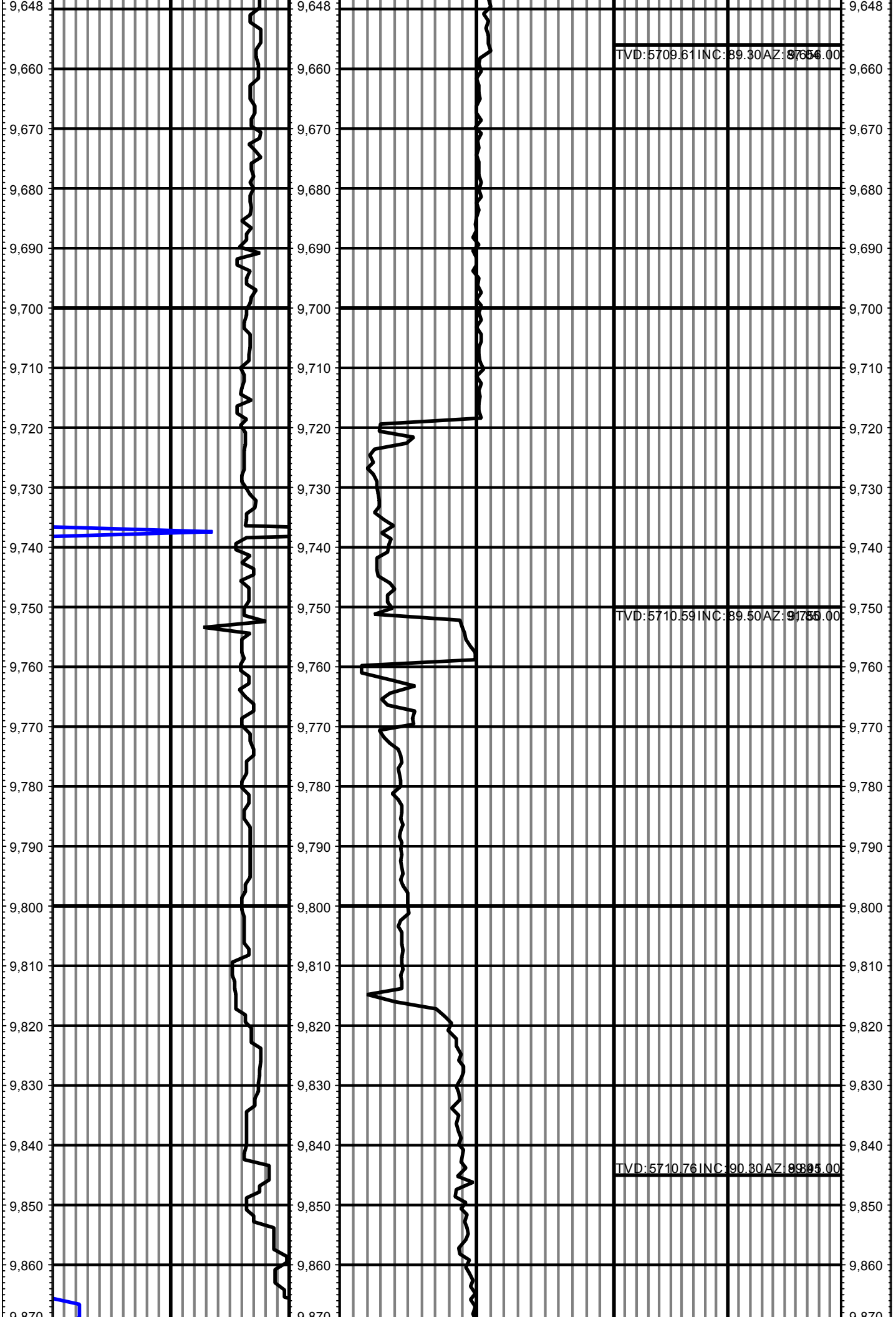


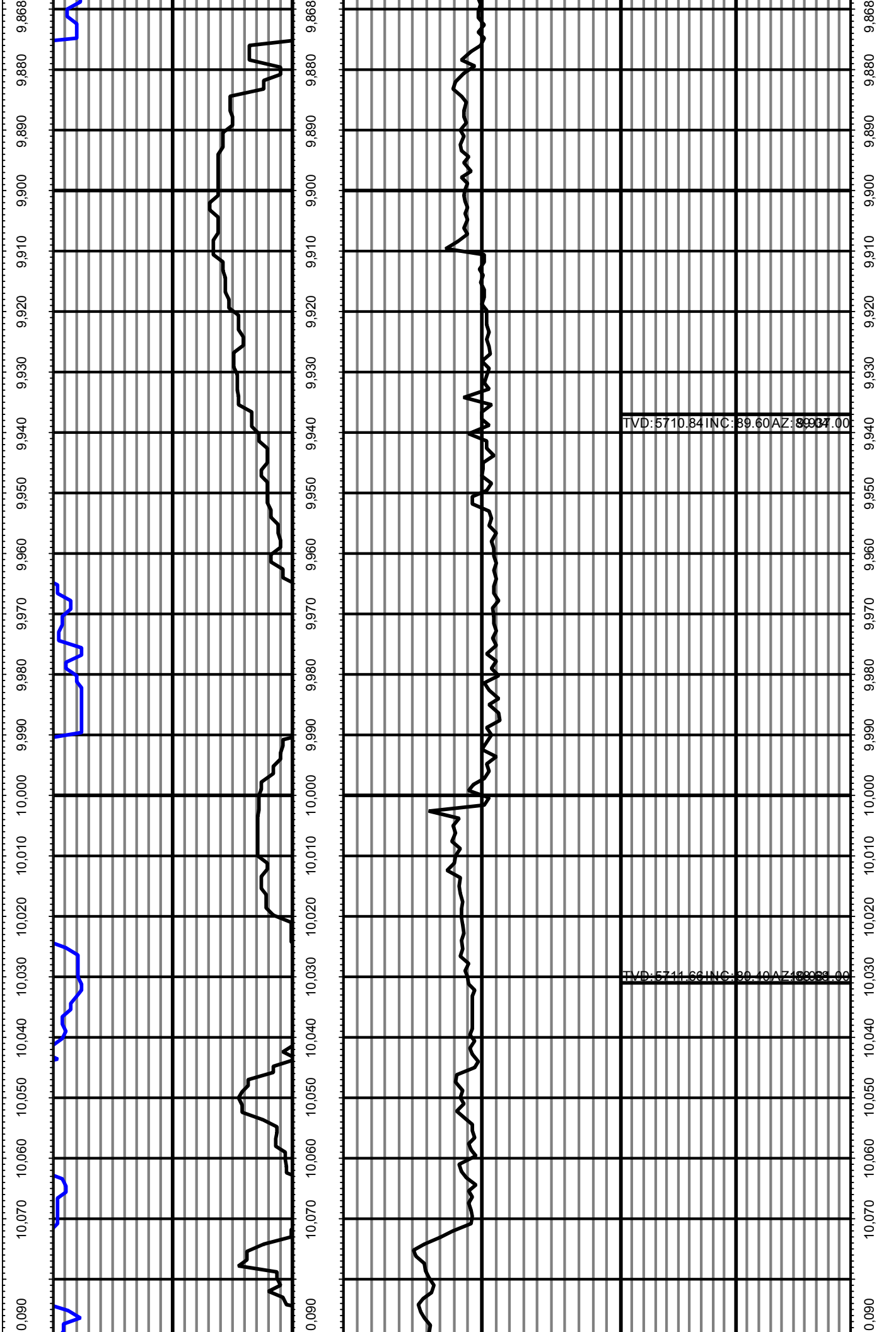


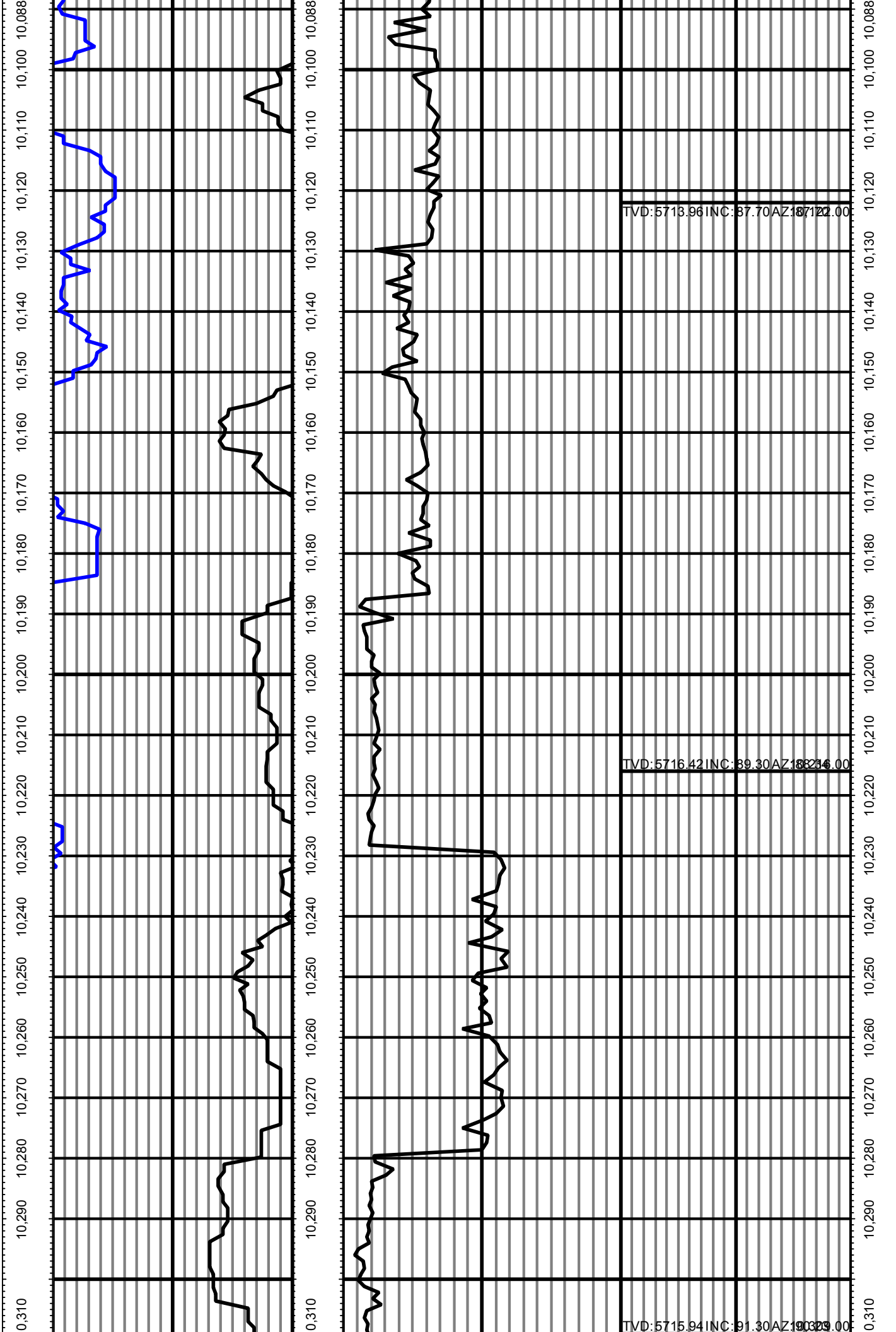


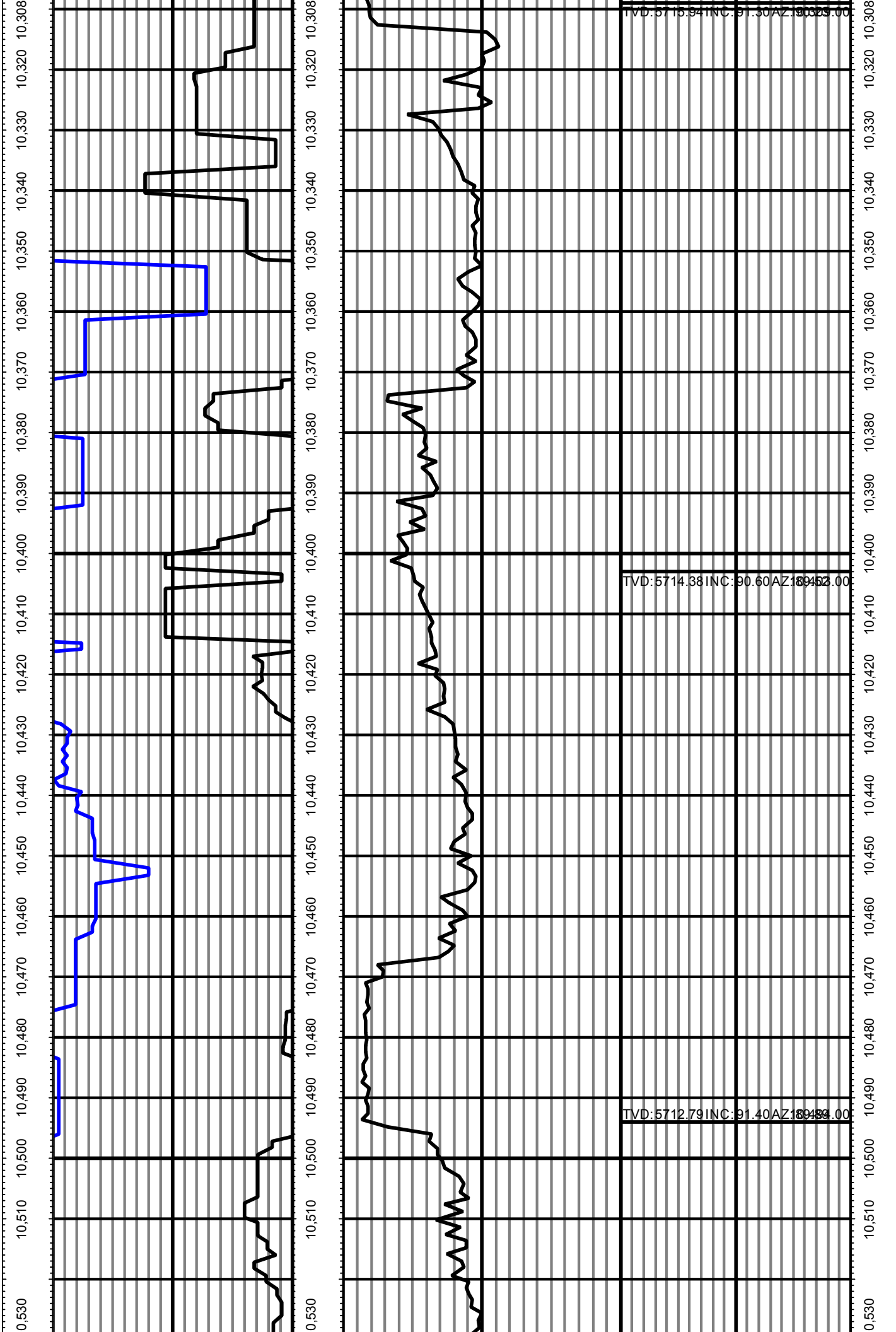


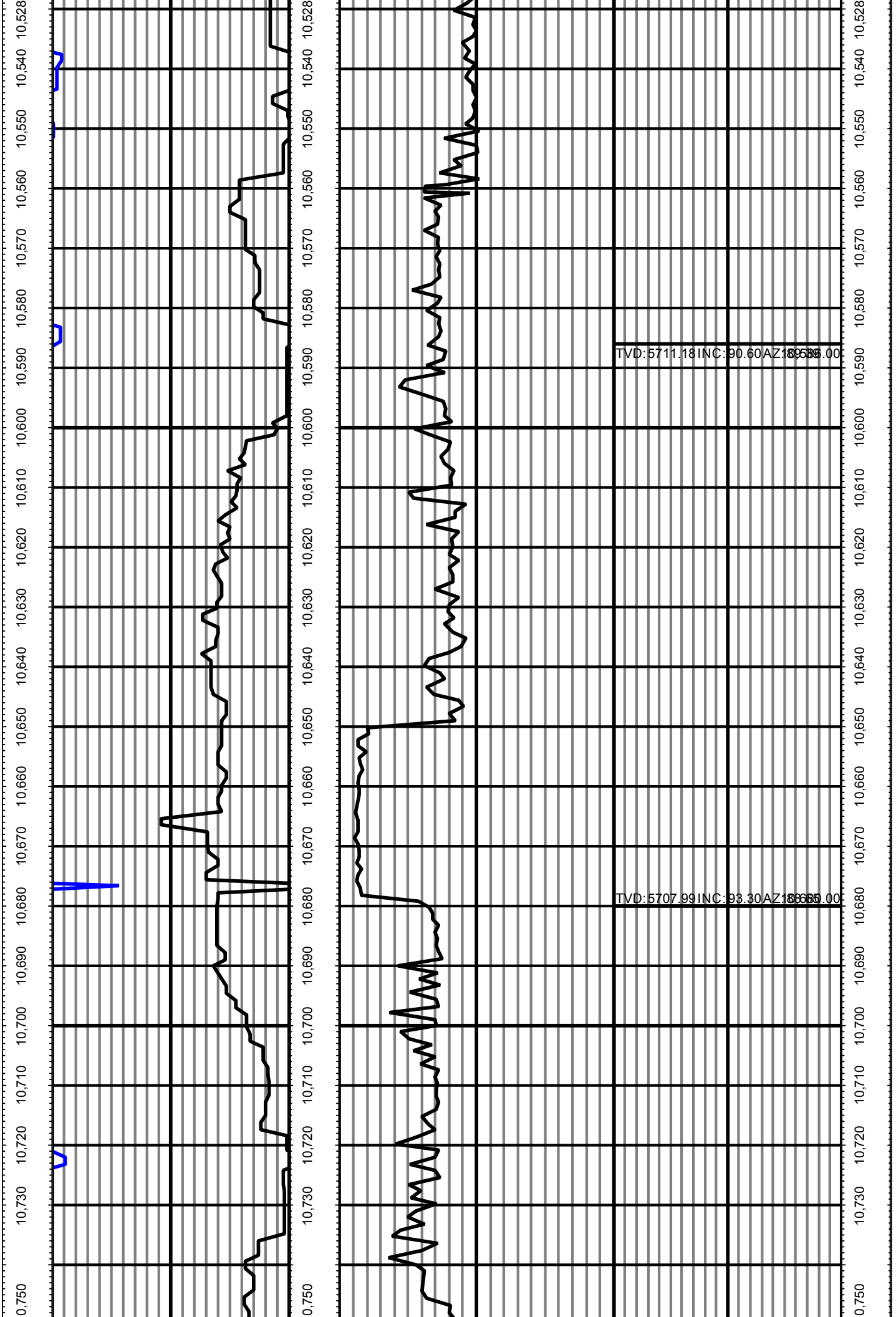


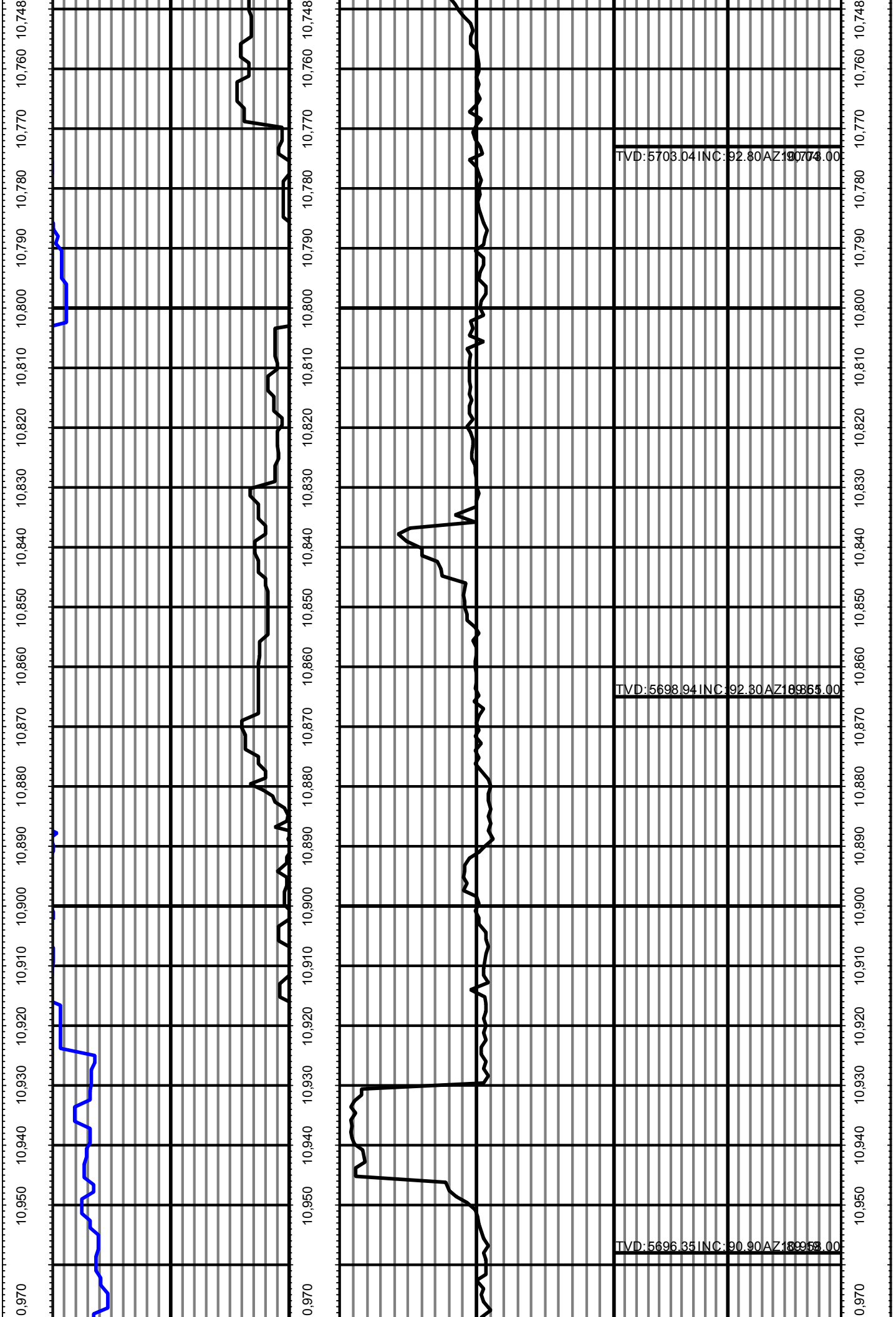


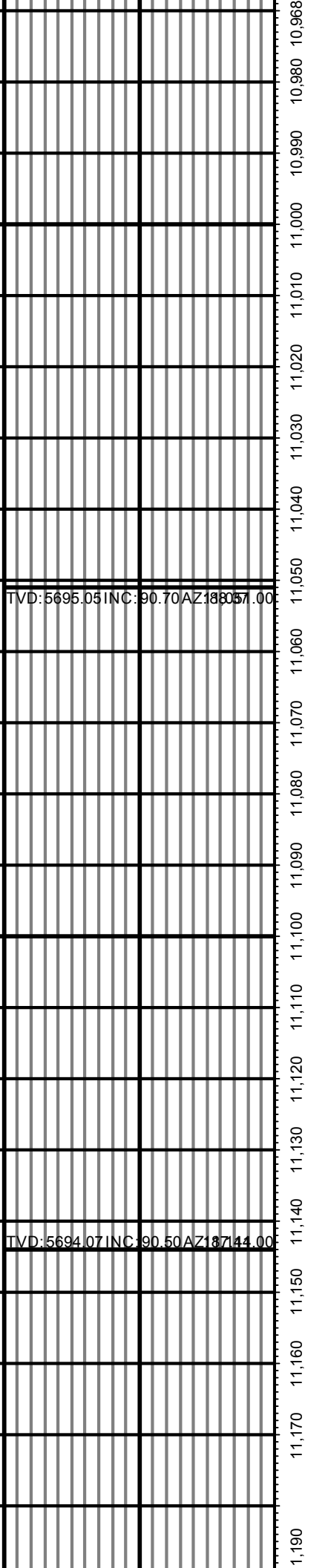
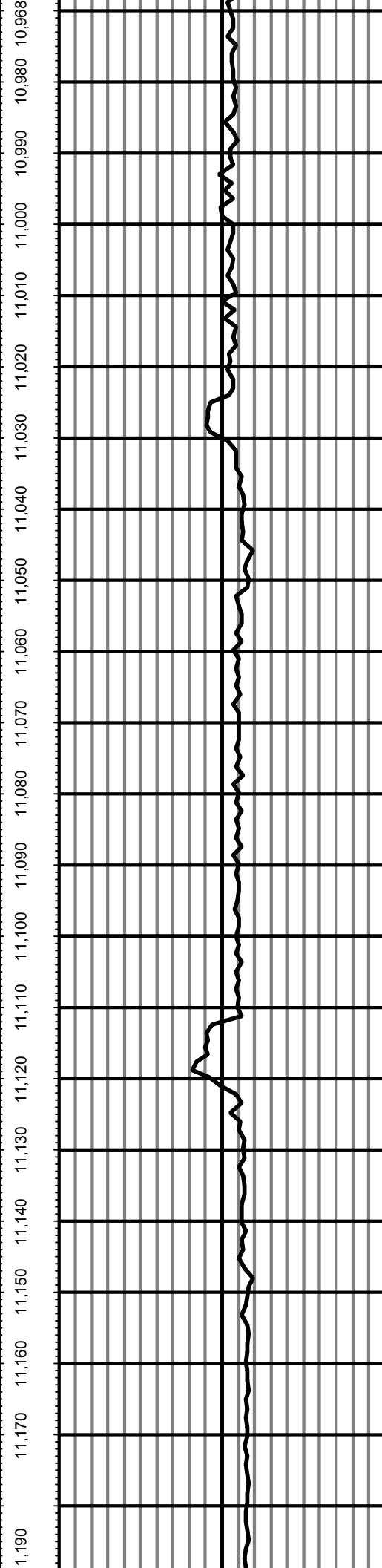
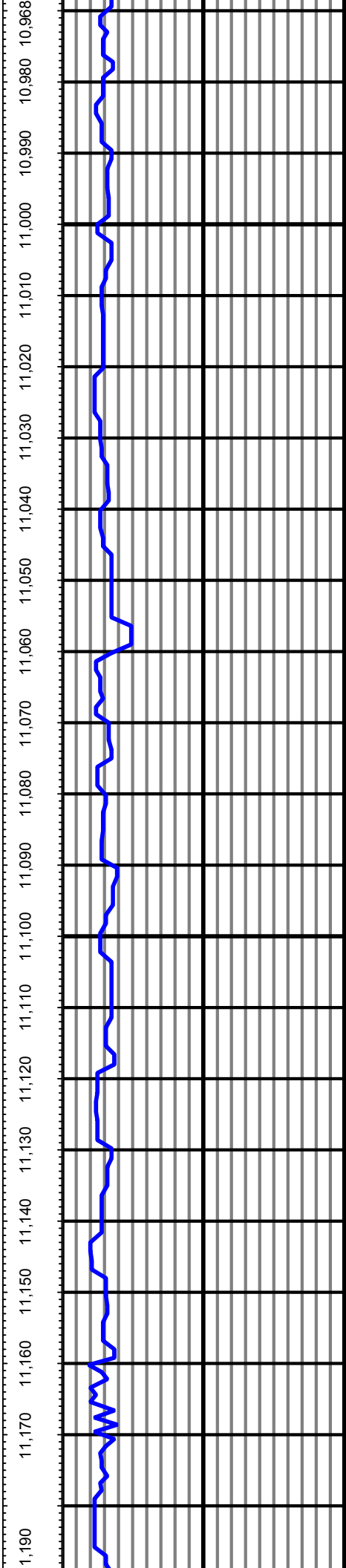


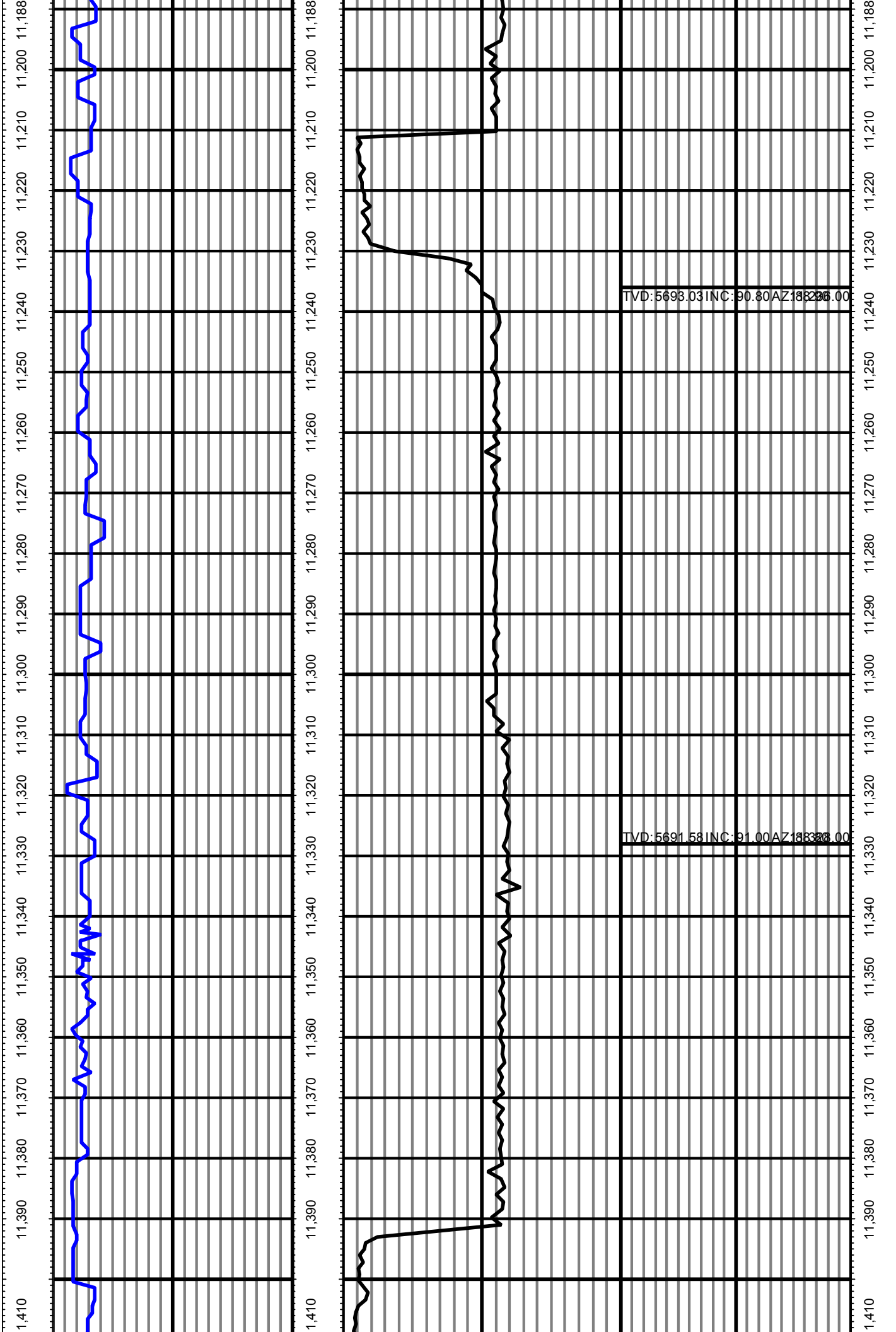


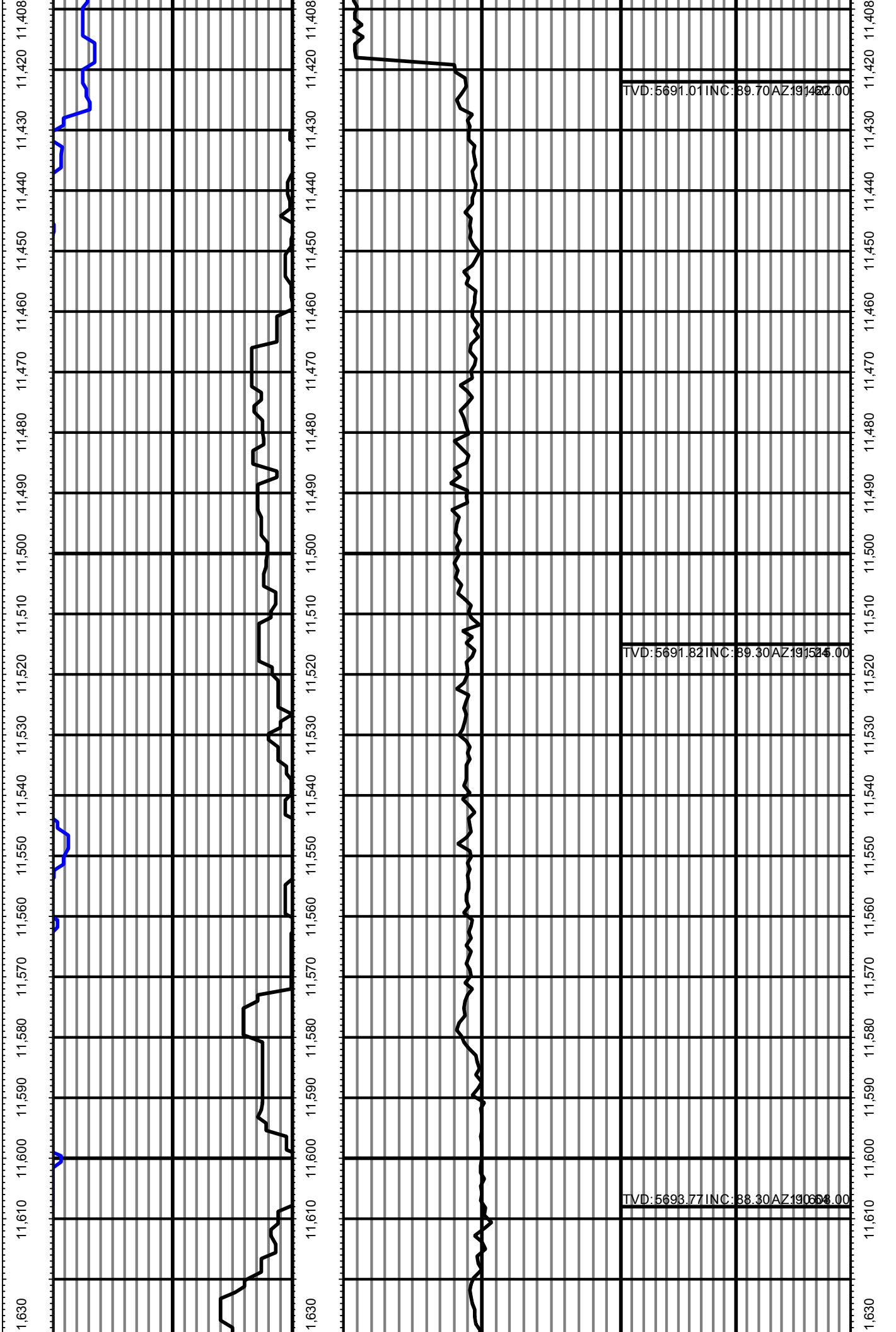


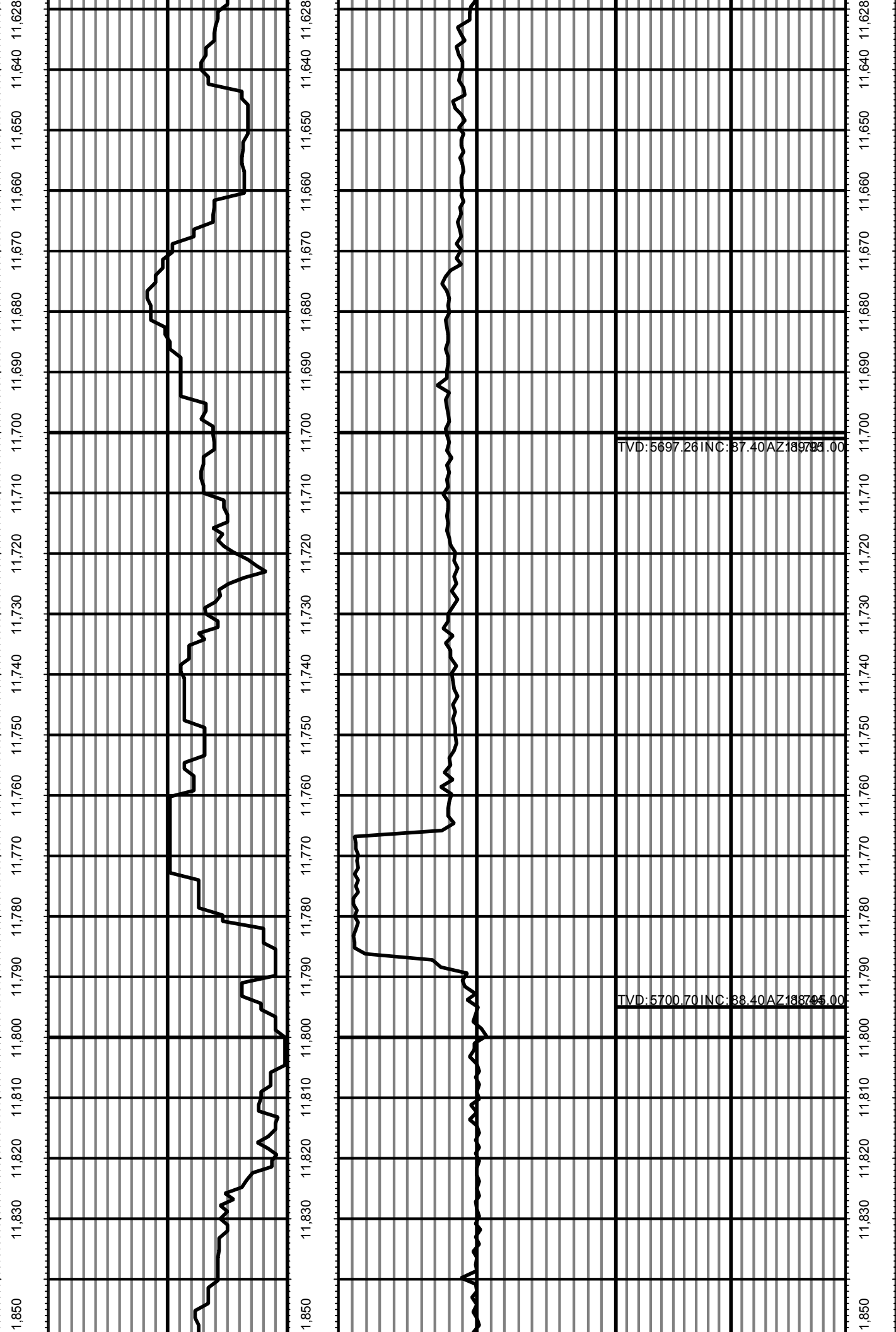


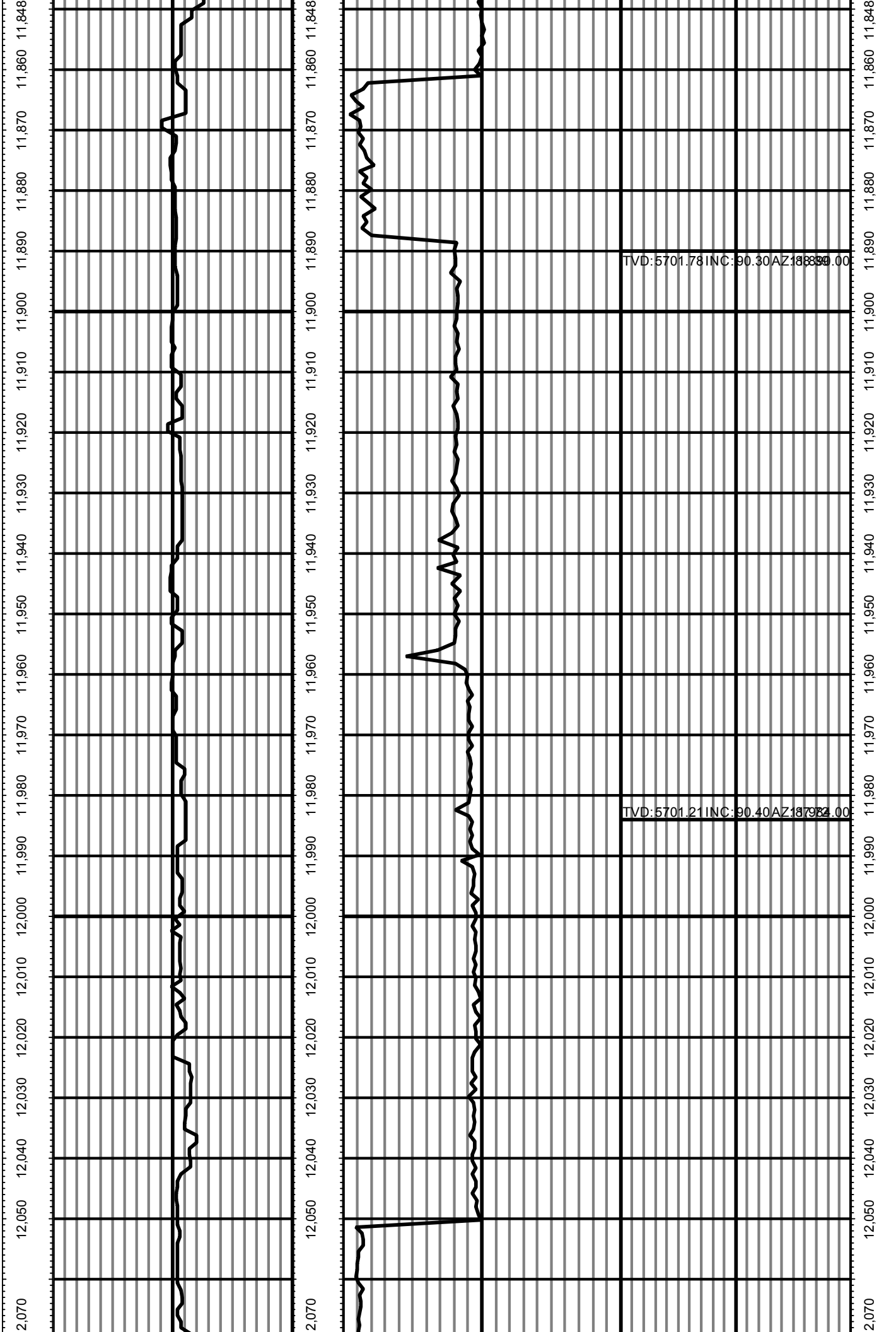


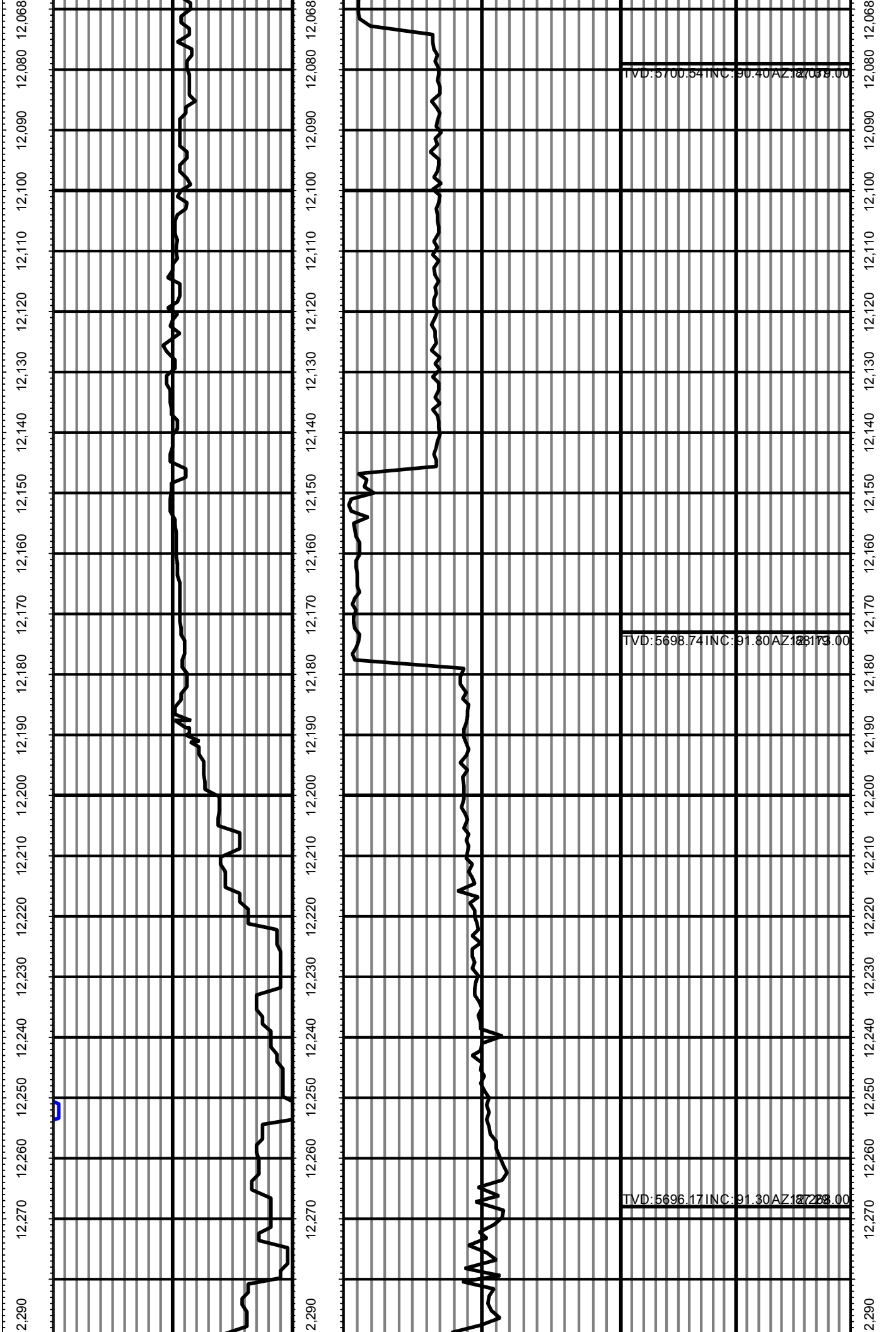


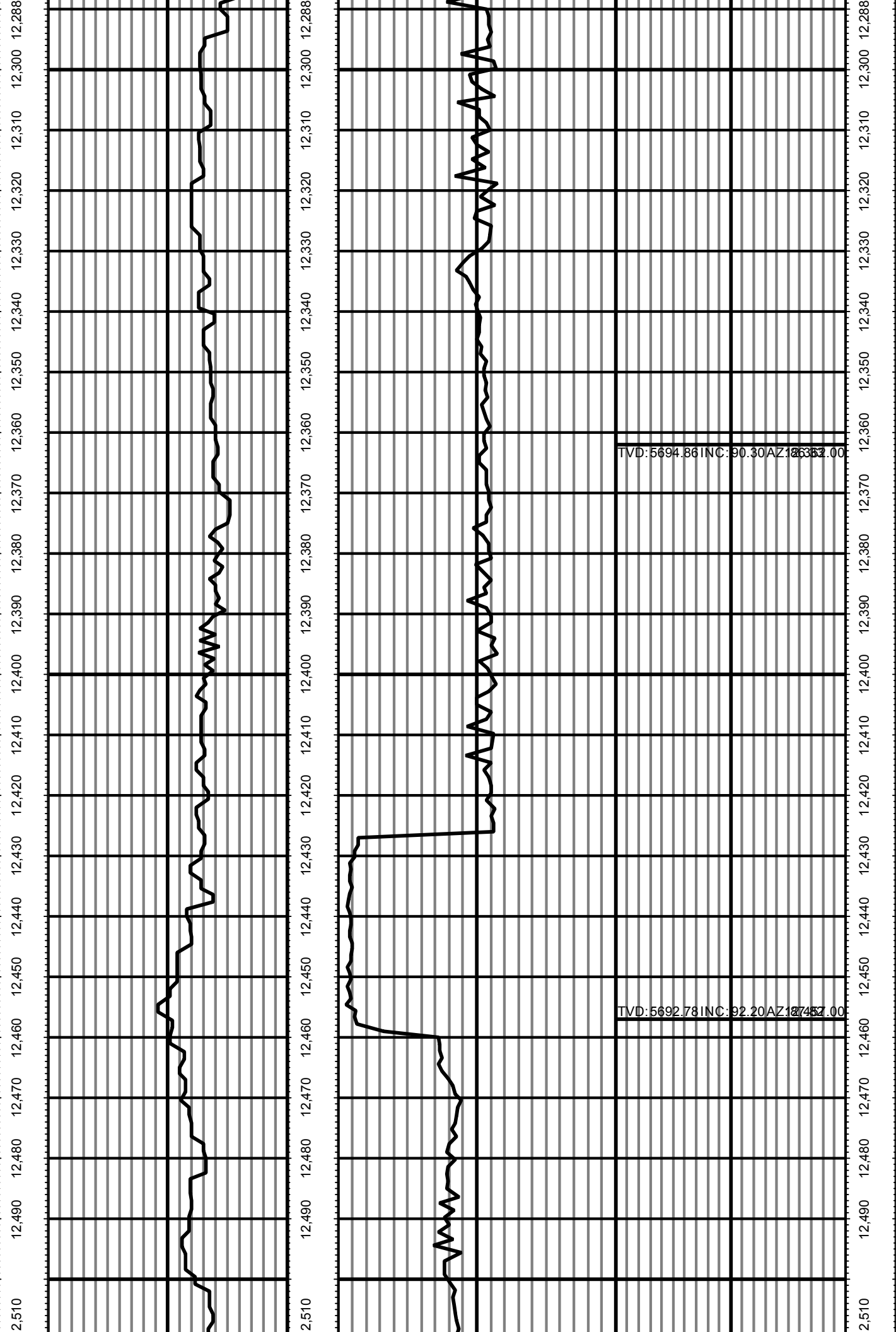


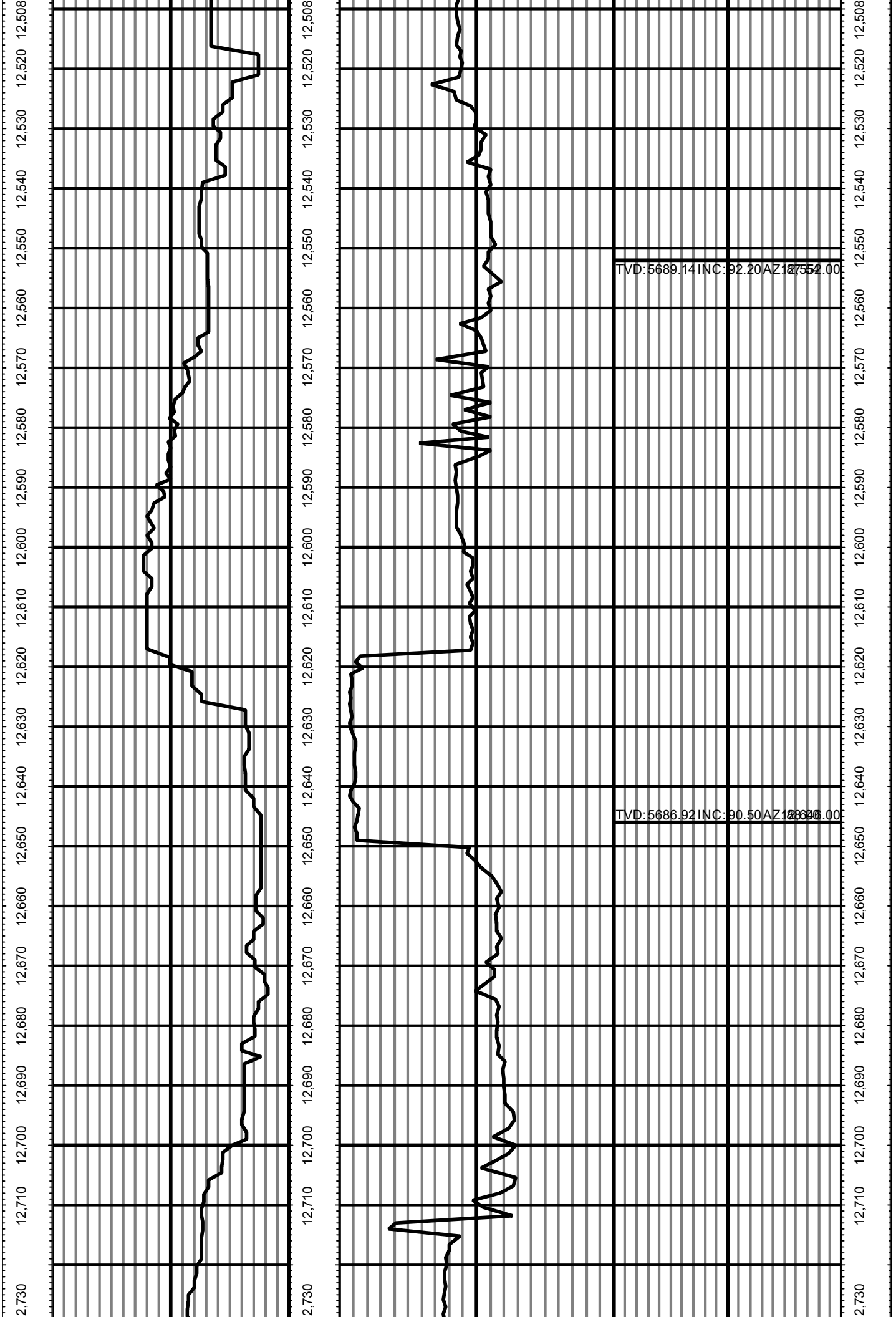


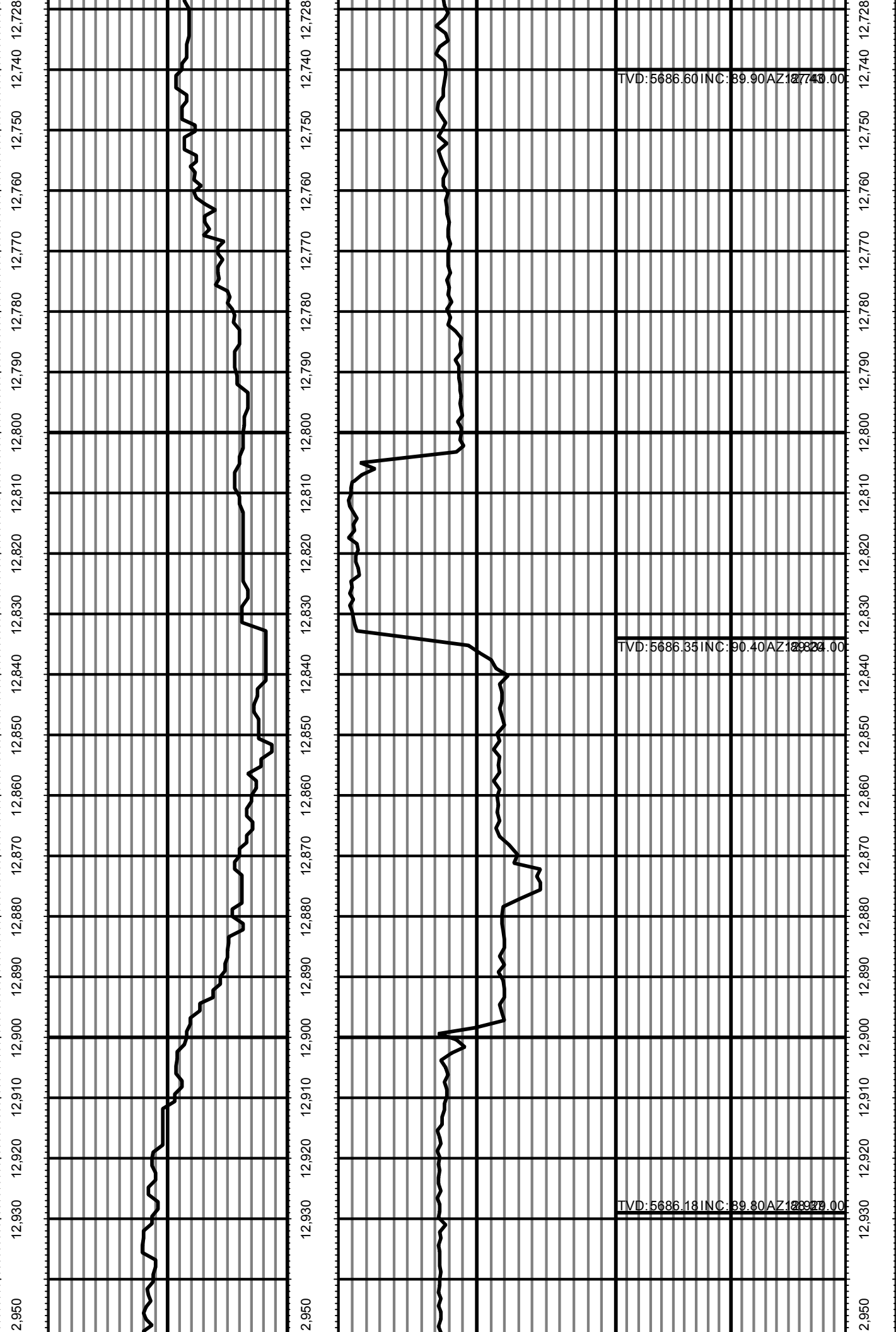


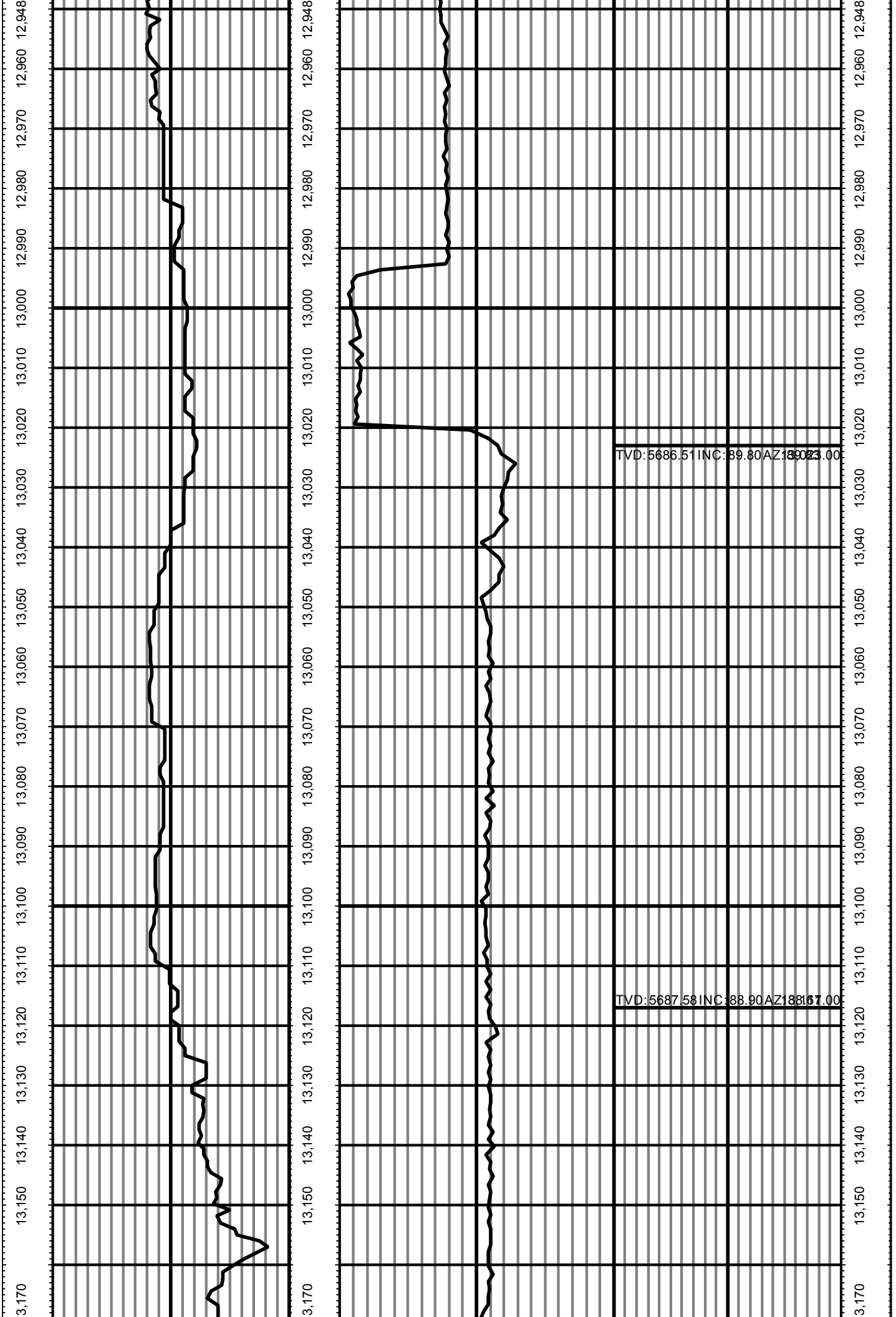


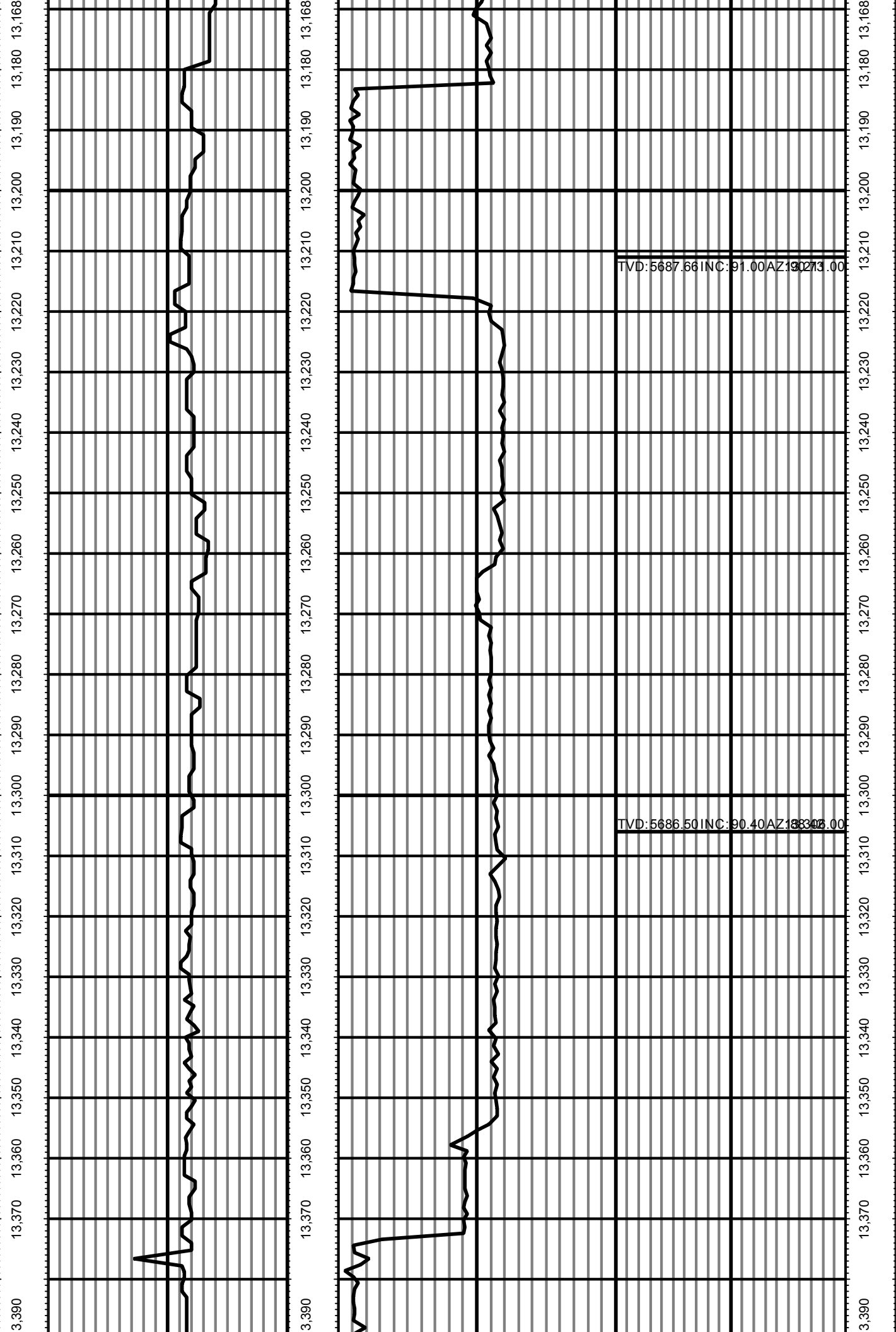


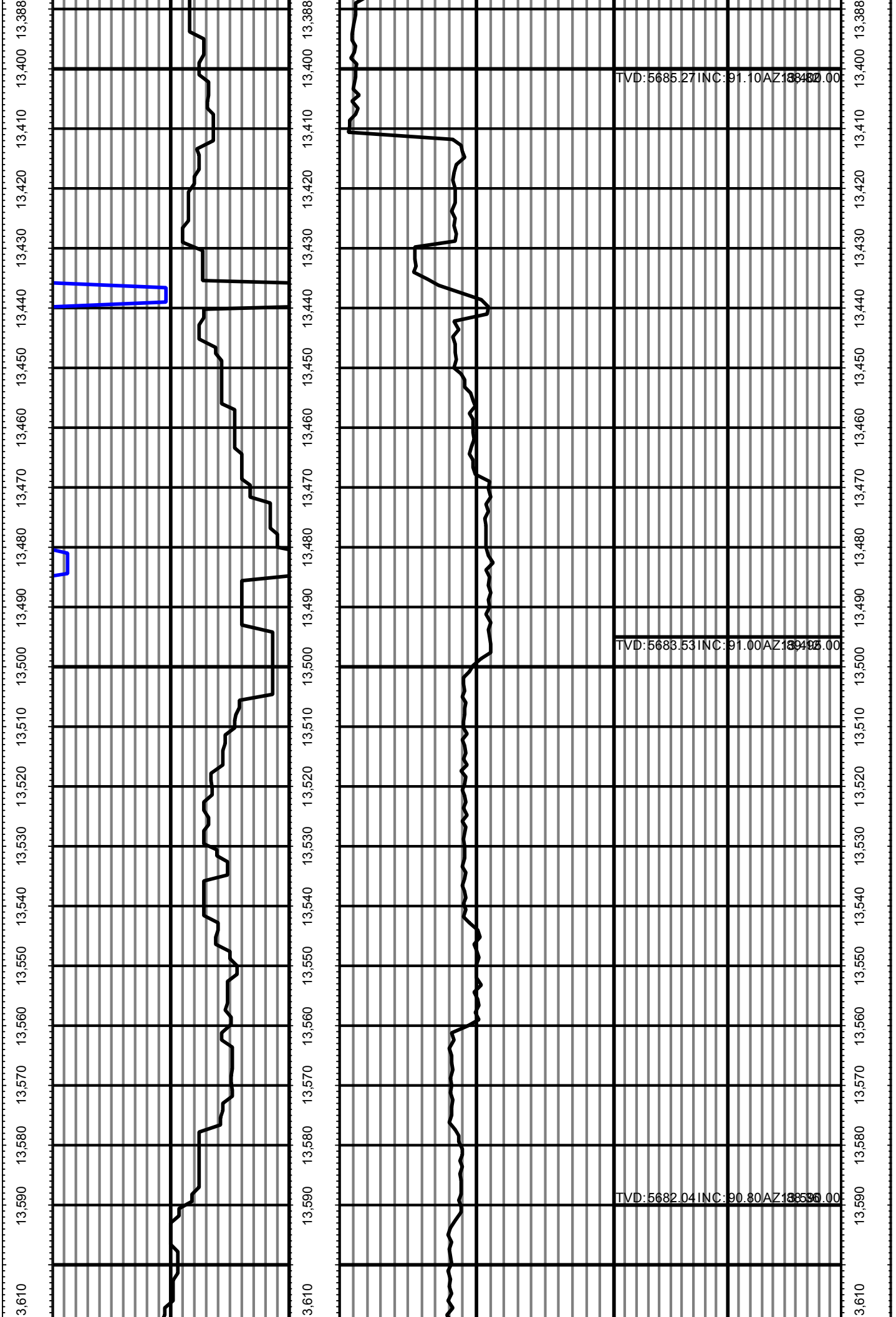


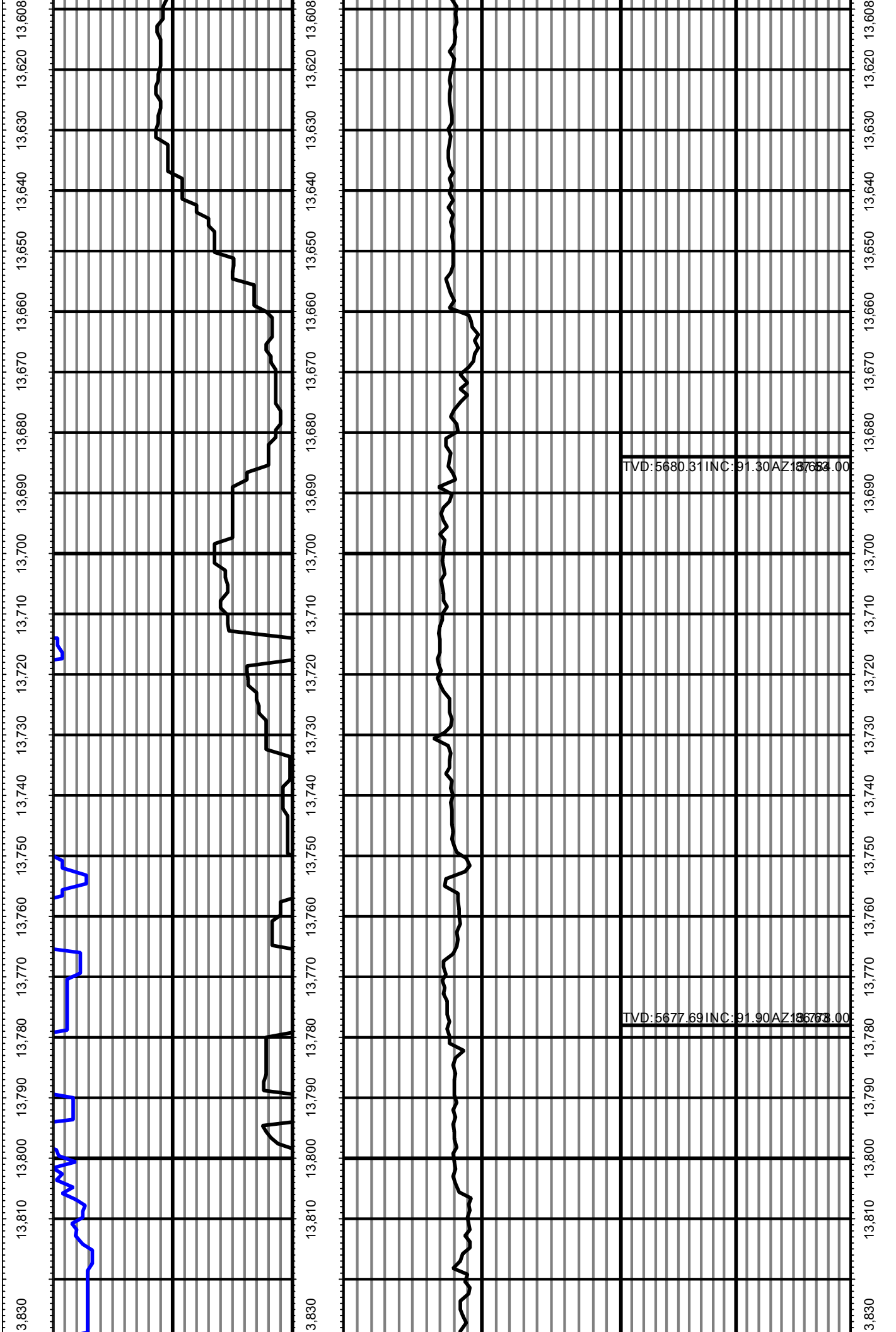


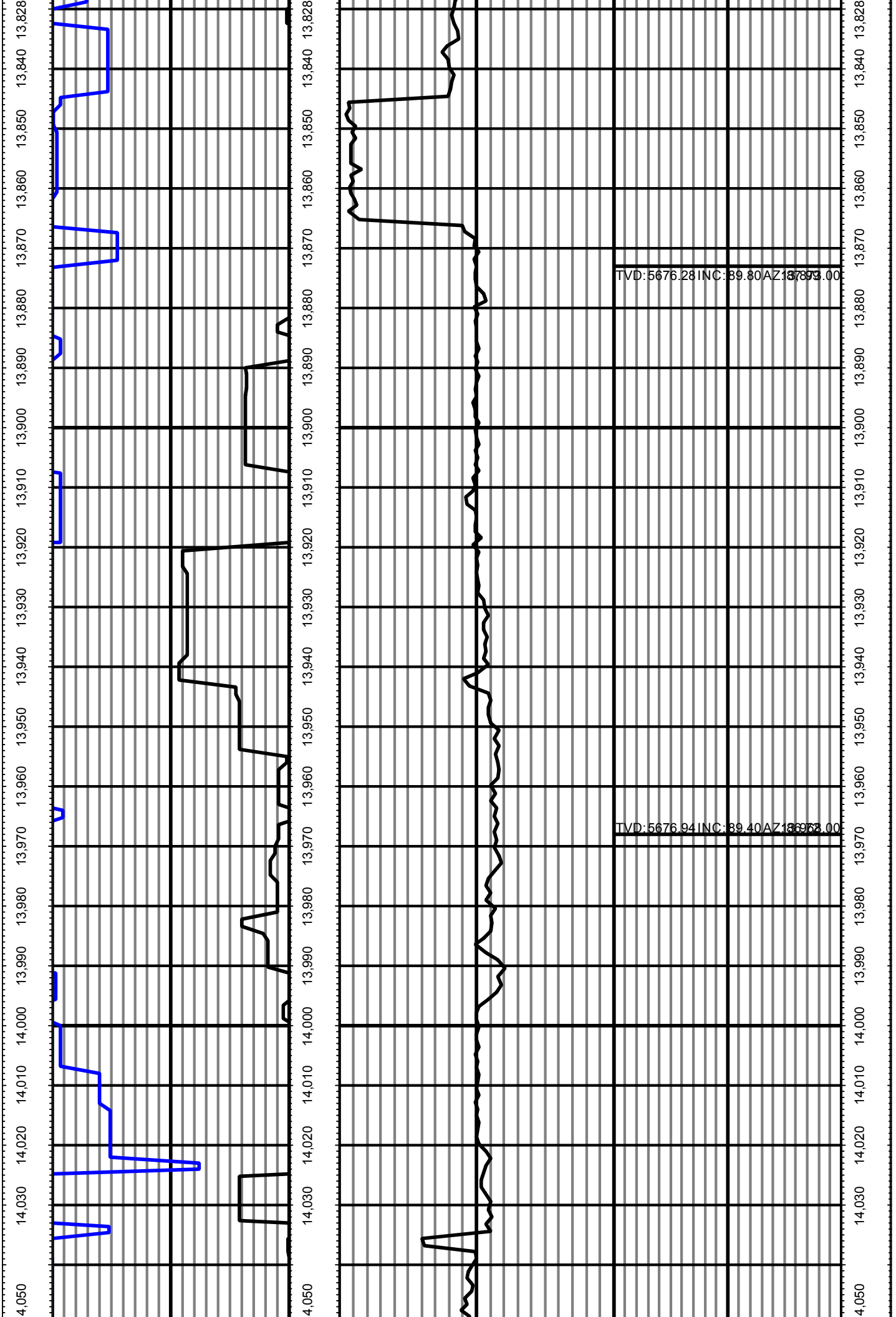


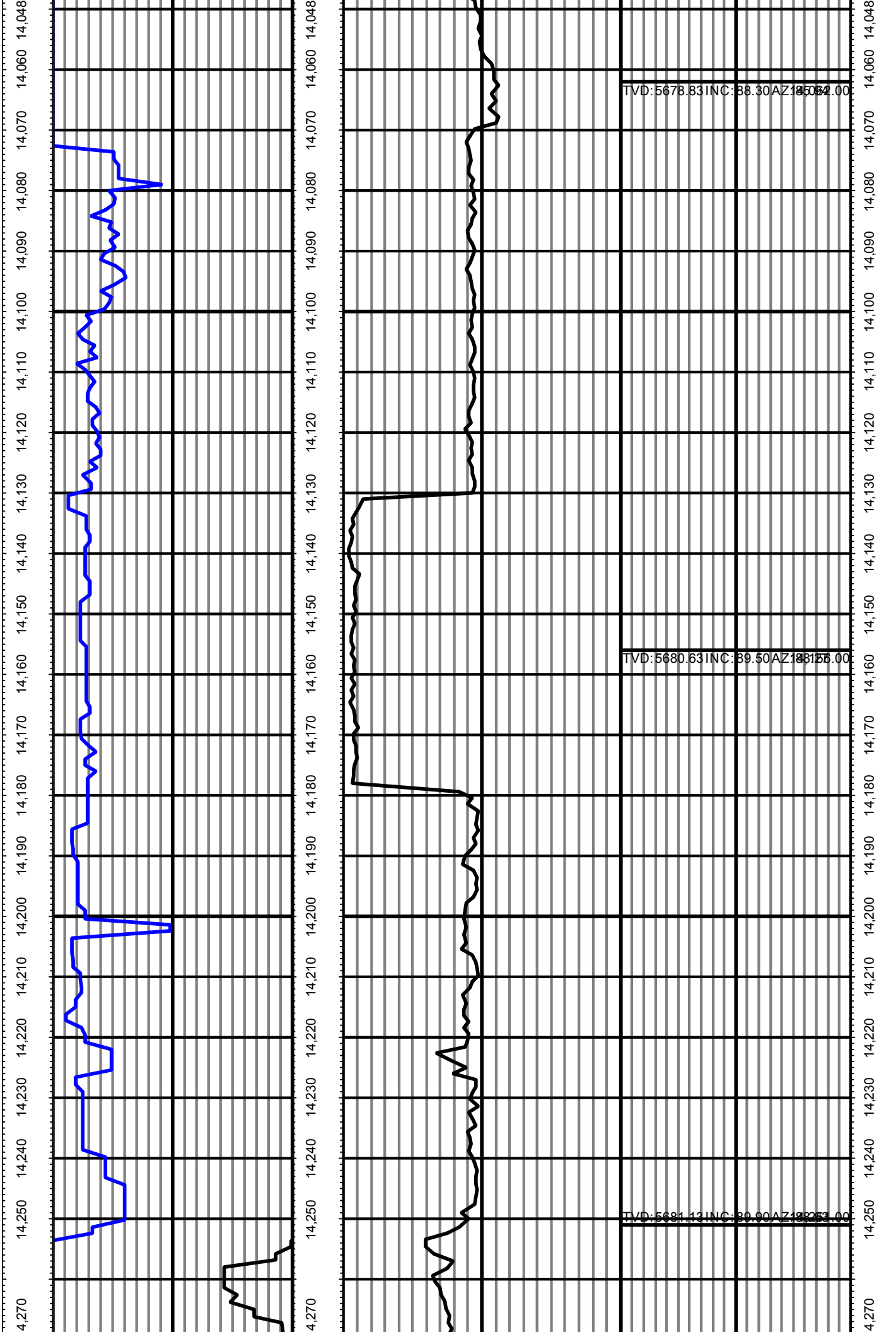


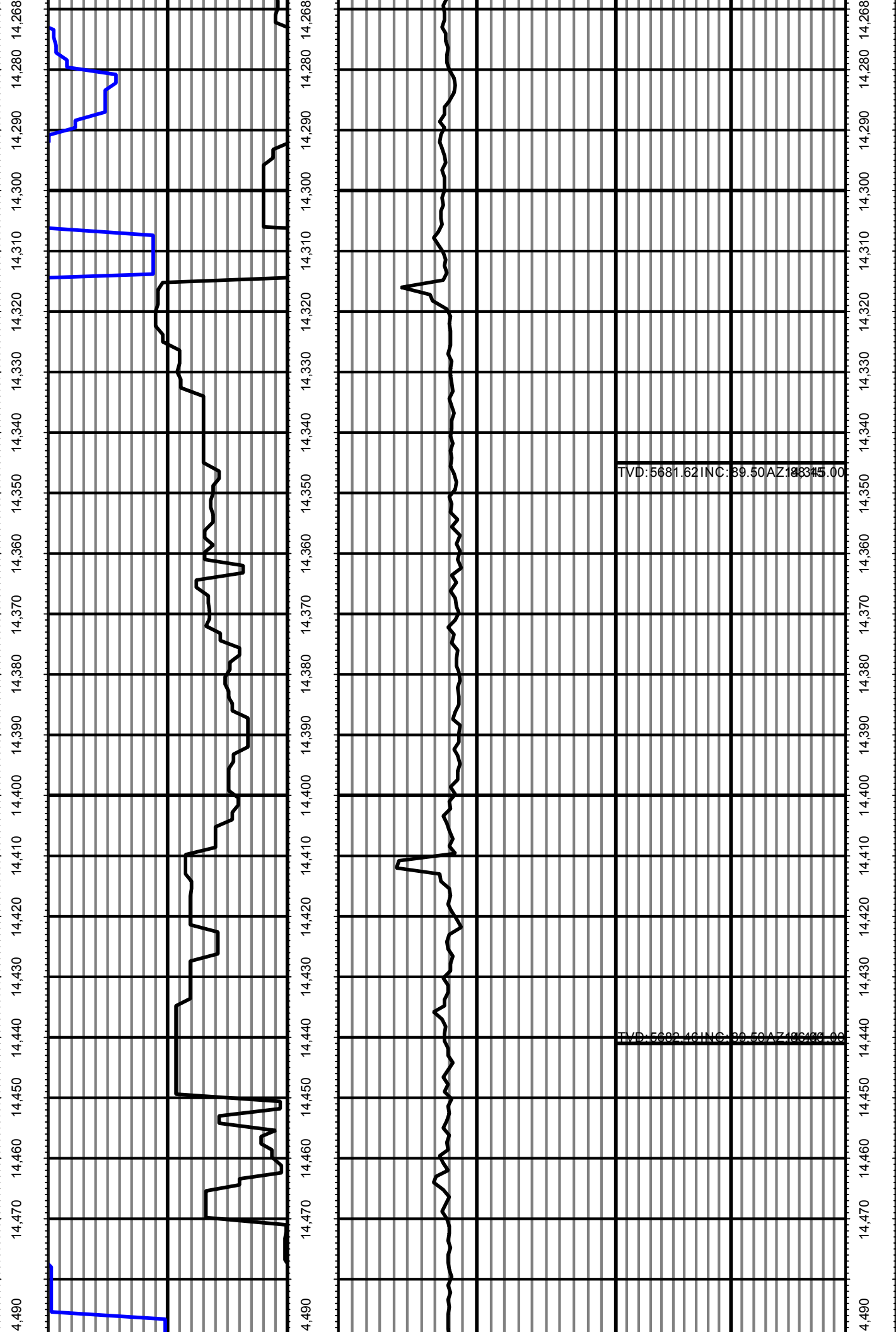


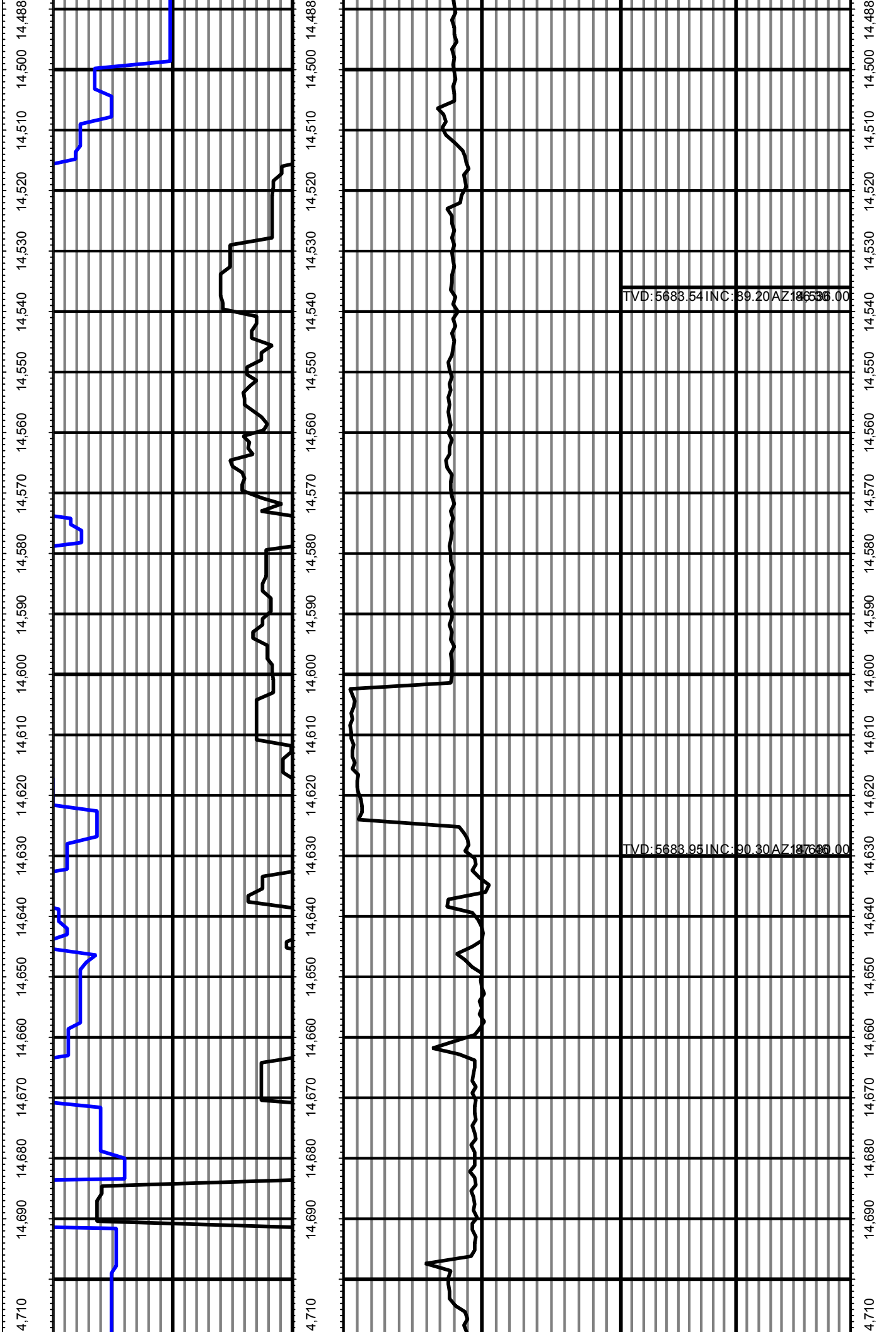


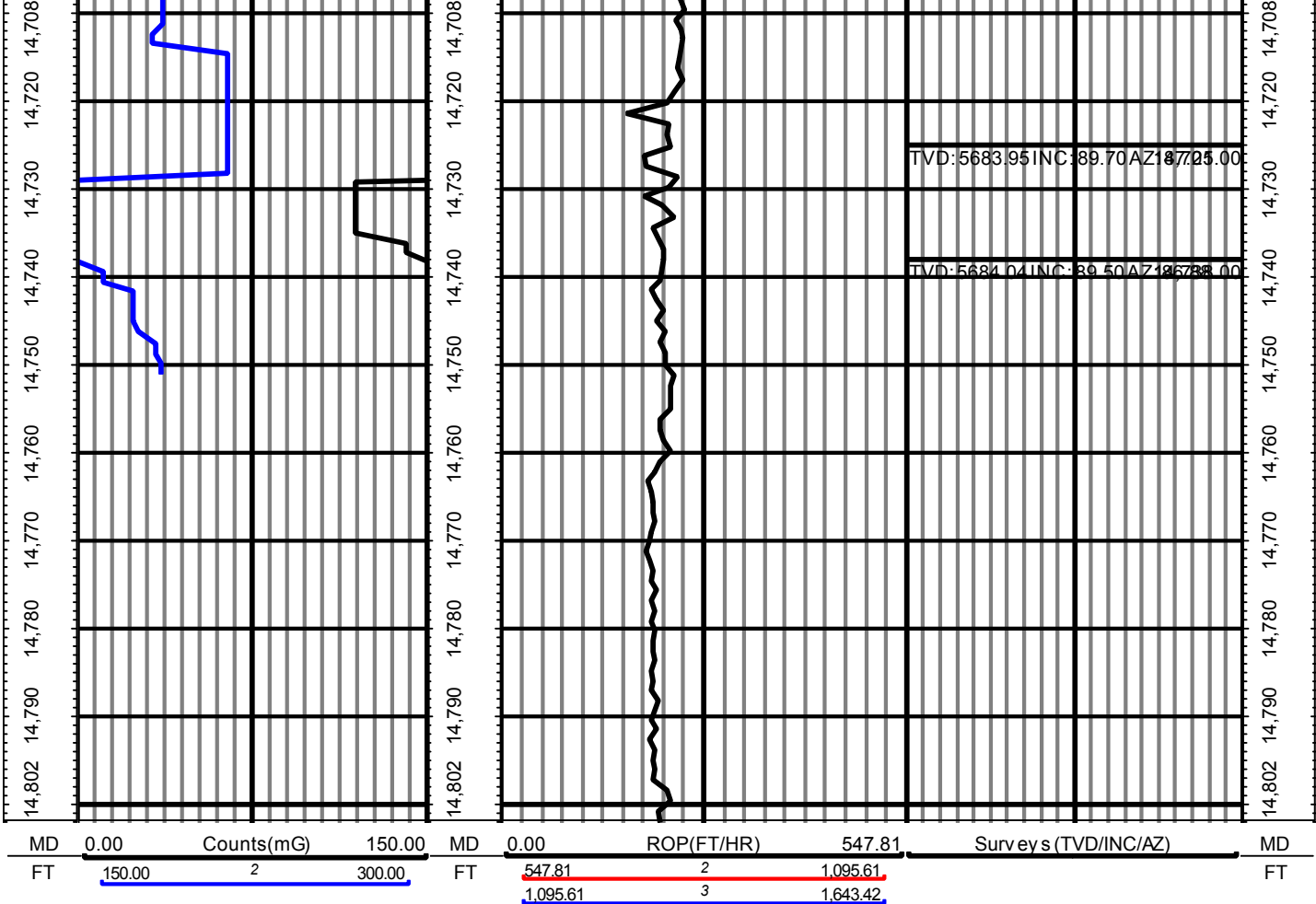














Noble Energy

RM-13623

1":100' - MD

8/19/2013 4:52:46 PM

Oper. Company: DDC
Country: United States
State / Province: Colorado
County / Parish: Weld
Started: 08/11/2013 02:30 PM

API/UWI: 05-123-37479
Field: Wildcat
Well: Rohn State LD04-68-1HN
Rig: H&P #326
Ended: 08/19/2013 04:30 PM

Personnel

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

Location

Latitude: 40° 47' 9.708 N
Longitude: 103° 52' 40.008 W
Elev. GL: 4747
Elev. DF: 30
Elev. KB: 4777

Rohn State LD04-68-1HN FINAL 1" MD

Hole Data

Size	From	To
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Size	From	To
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Bit Sizes

Size	From	To
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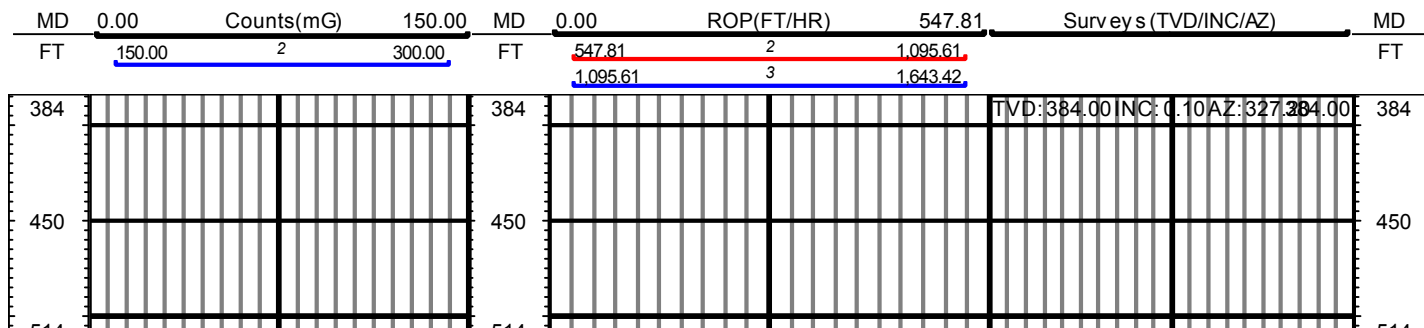
Mud Data

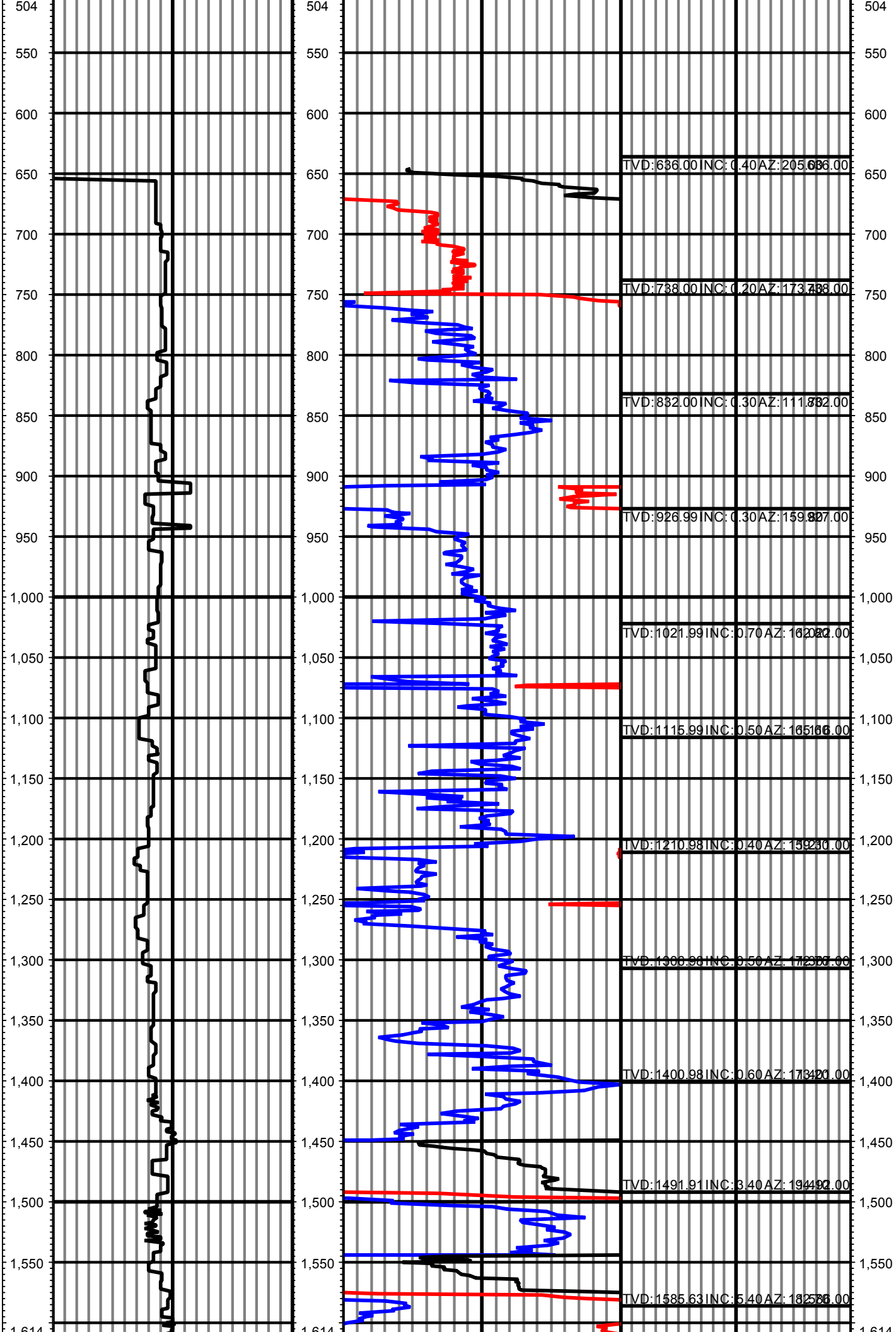
Type	Weight	Density	Viscosity	Rm	Rmf	Rmc	From	To
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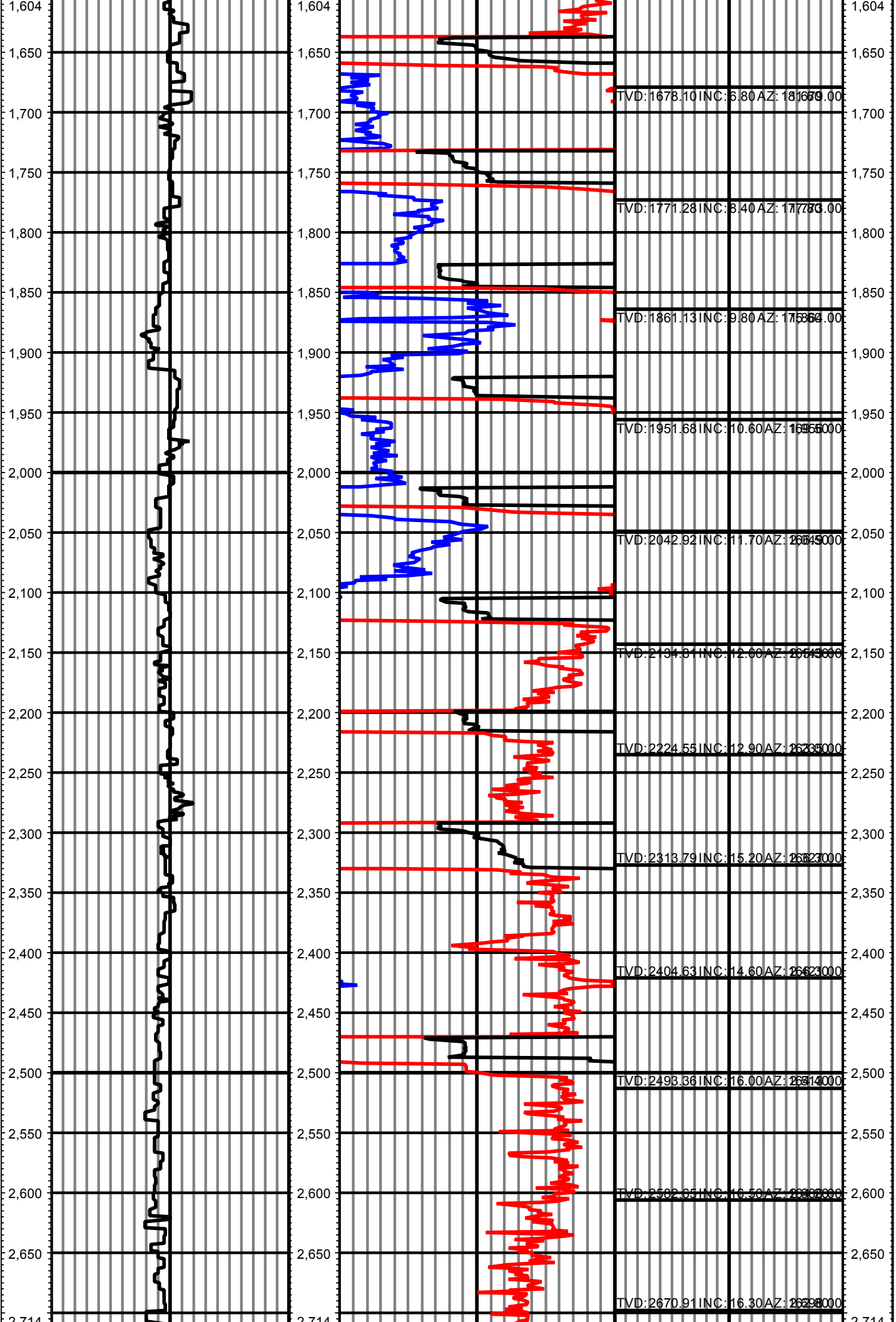
Tool Run Data

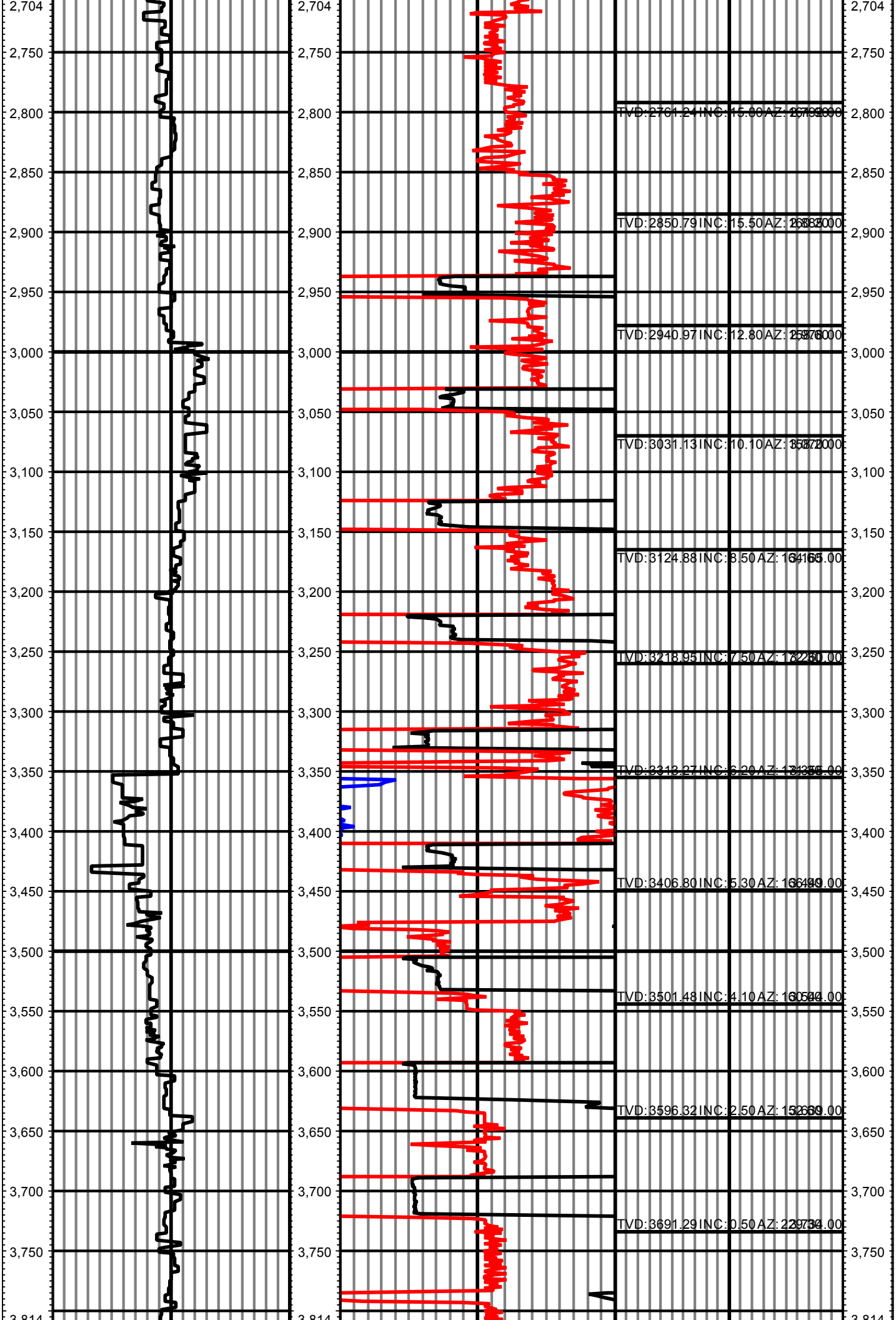
Serial Number	Gamma Offset	Resist. Offset	Start Time	Start Depth	End Time	End Depth
1515	38	3.163	8/11/2013 2:30:41 PM	646	8/12/2013 10:00:41 AM	5015
1515	38	3.163	8/12/2013 8:00:05 PM	5015	8/13/2013 8:00:05 AM	6157
1515	51	2.209	8/14/2013 8:00:10 PM	6157	8/18/2013 7:30:10 AM	13428
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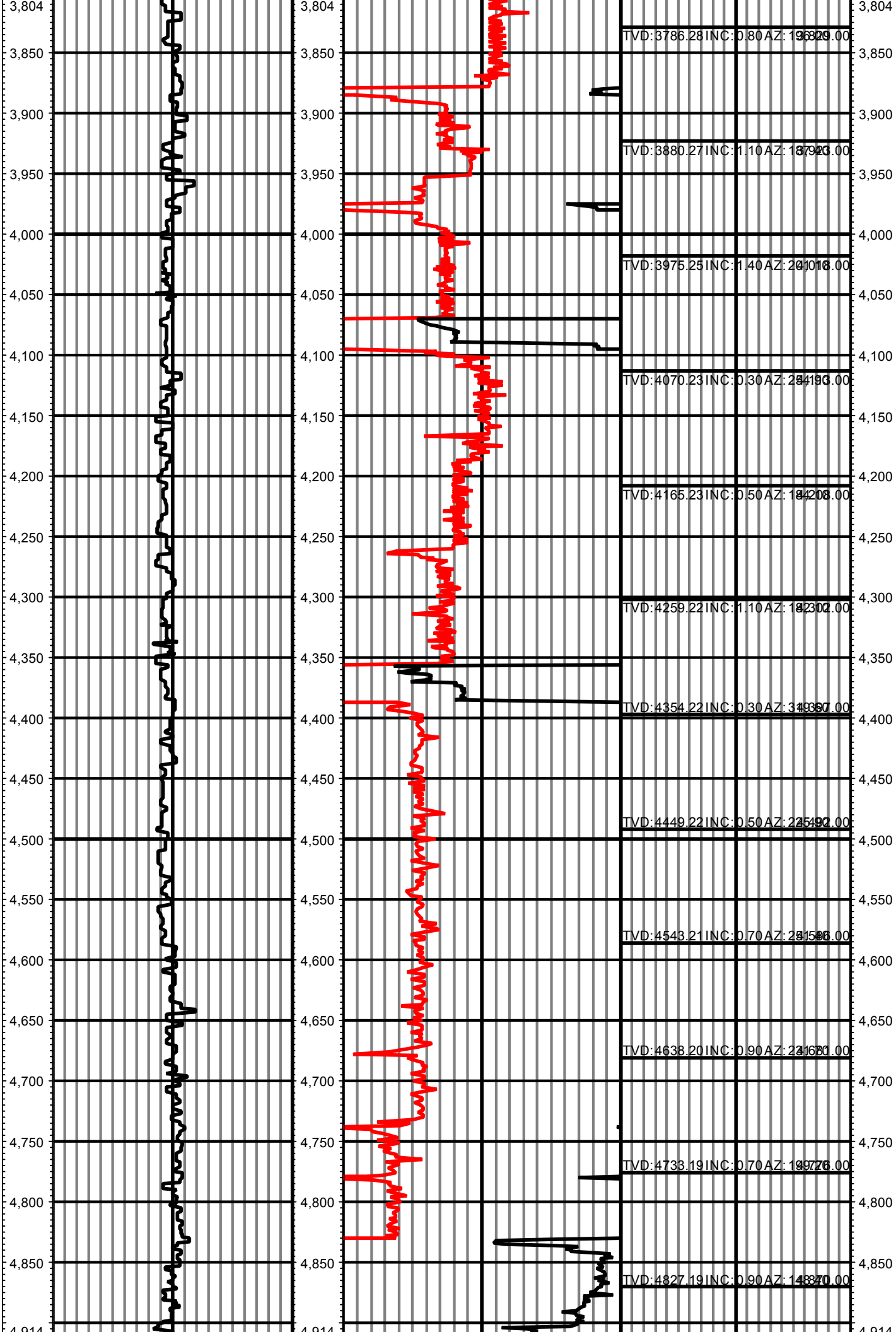
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not except in the case of gross or willful negligence on our part, be liable or responsible for any loss, cost damages or expenses incurred or sustained by anyone resulting from an interpretation made by any of our officers, agents, or employees.

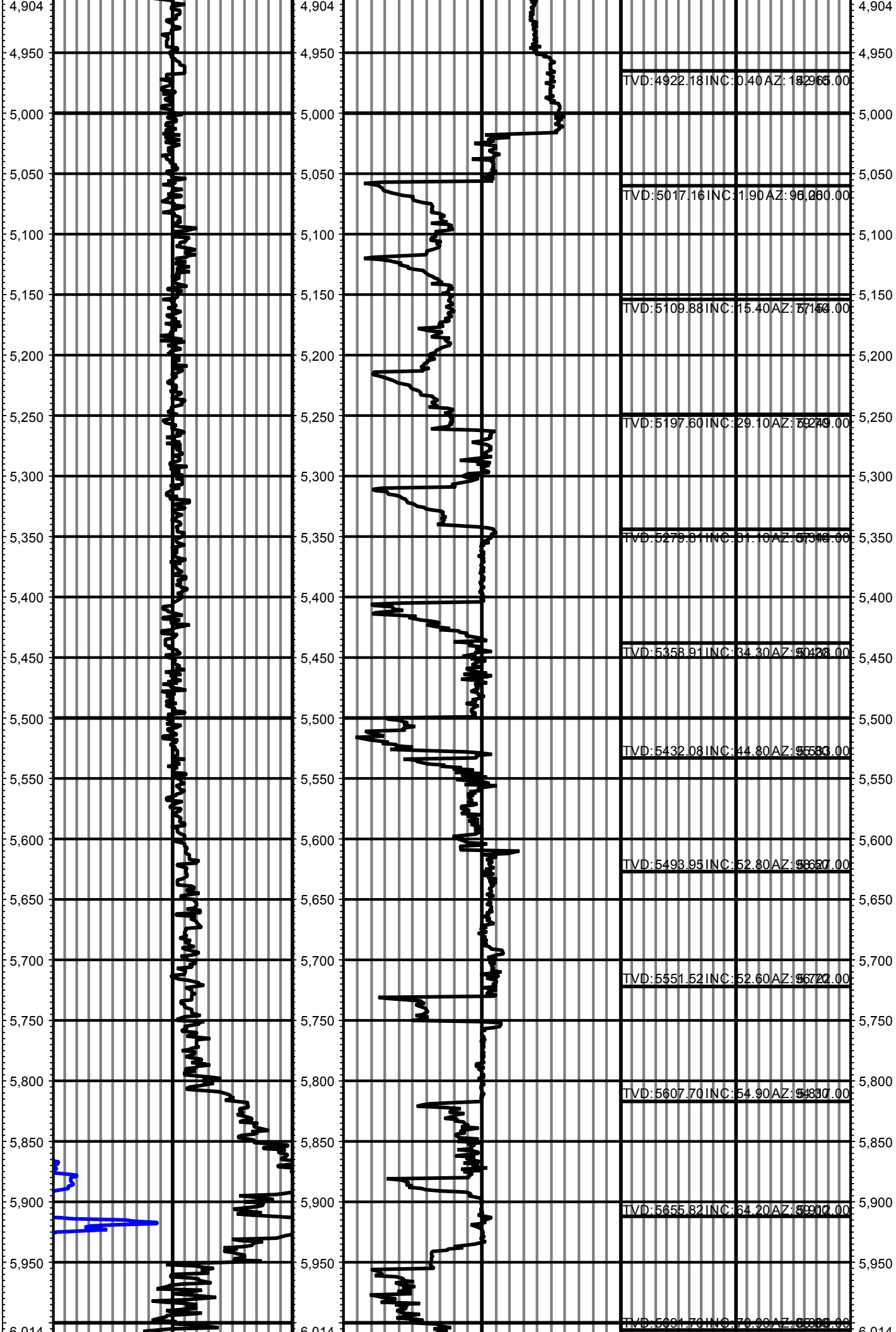


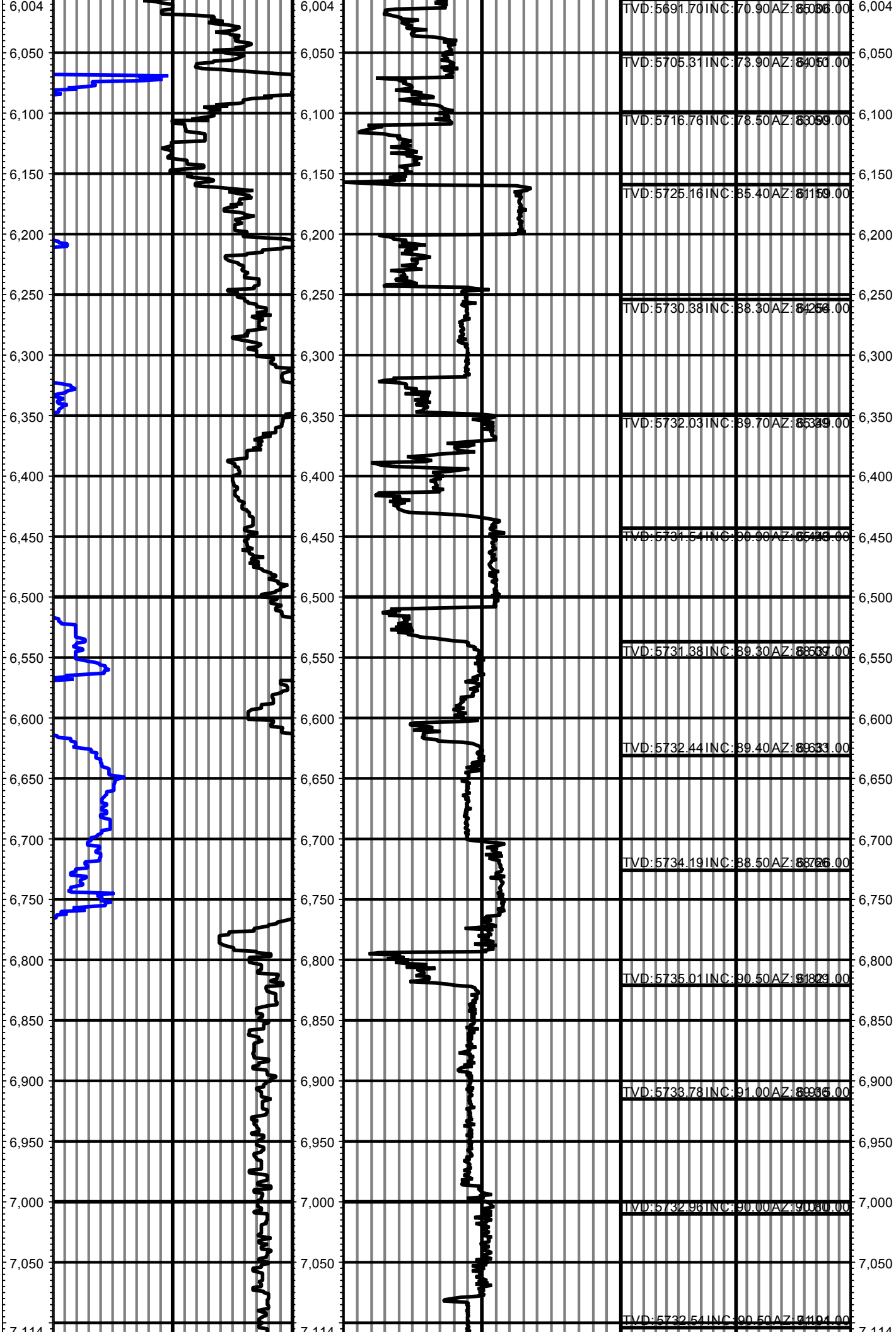


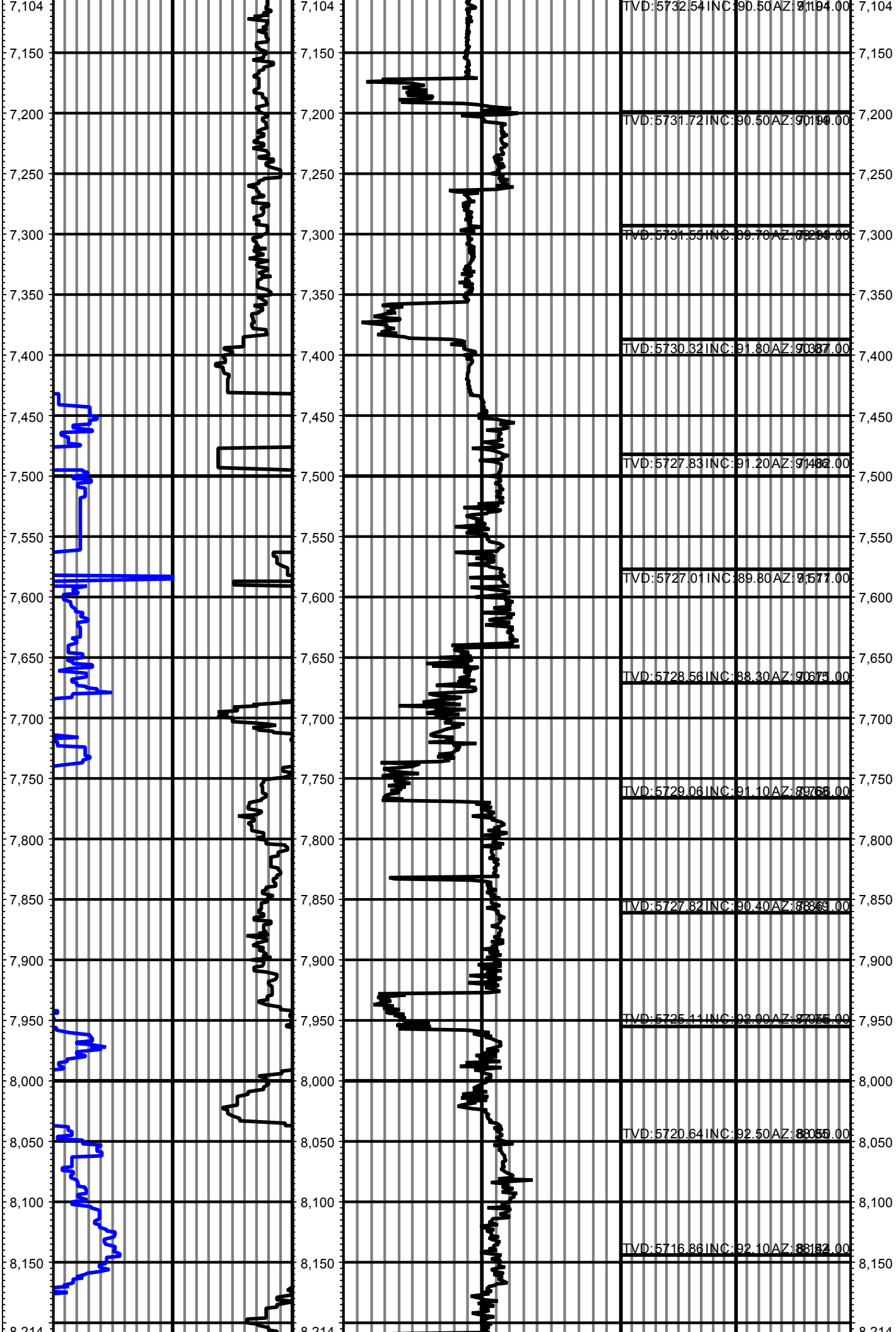


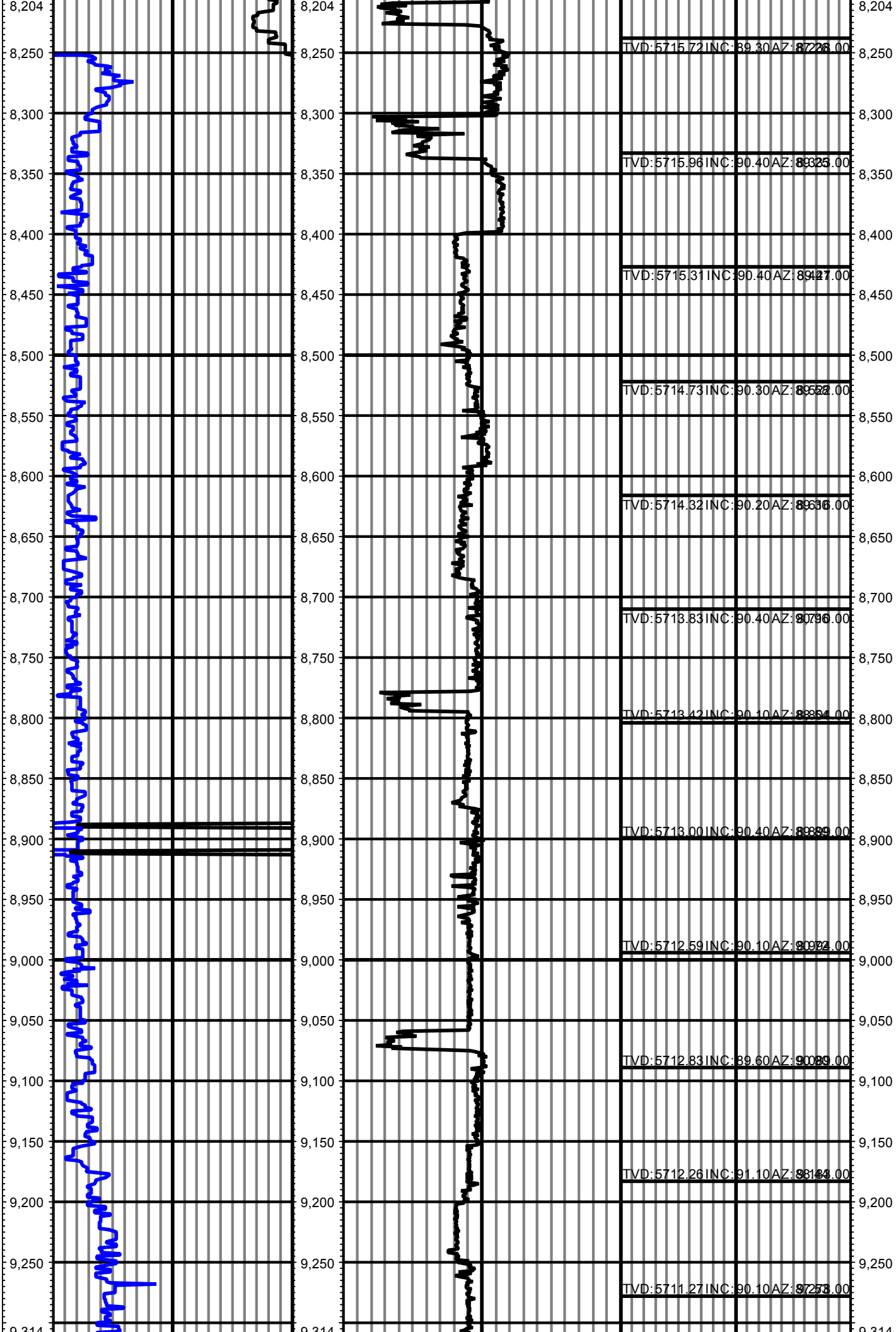


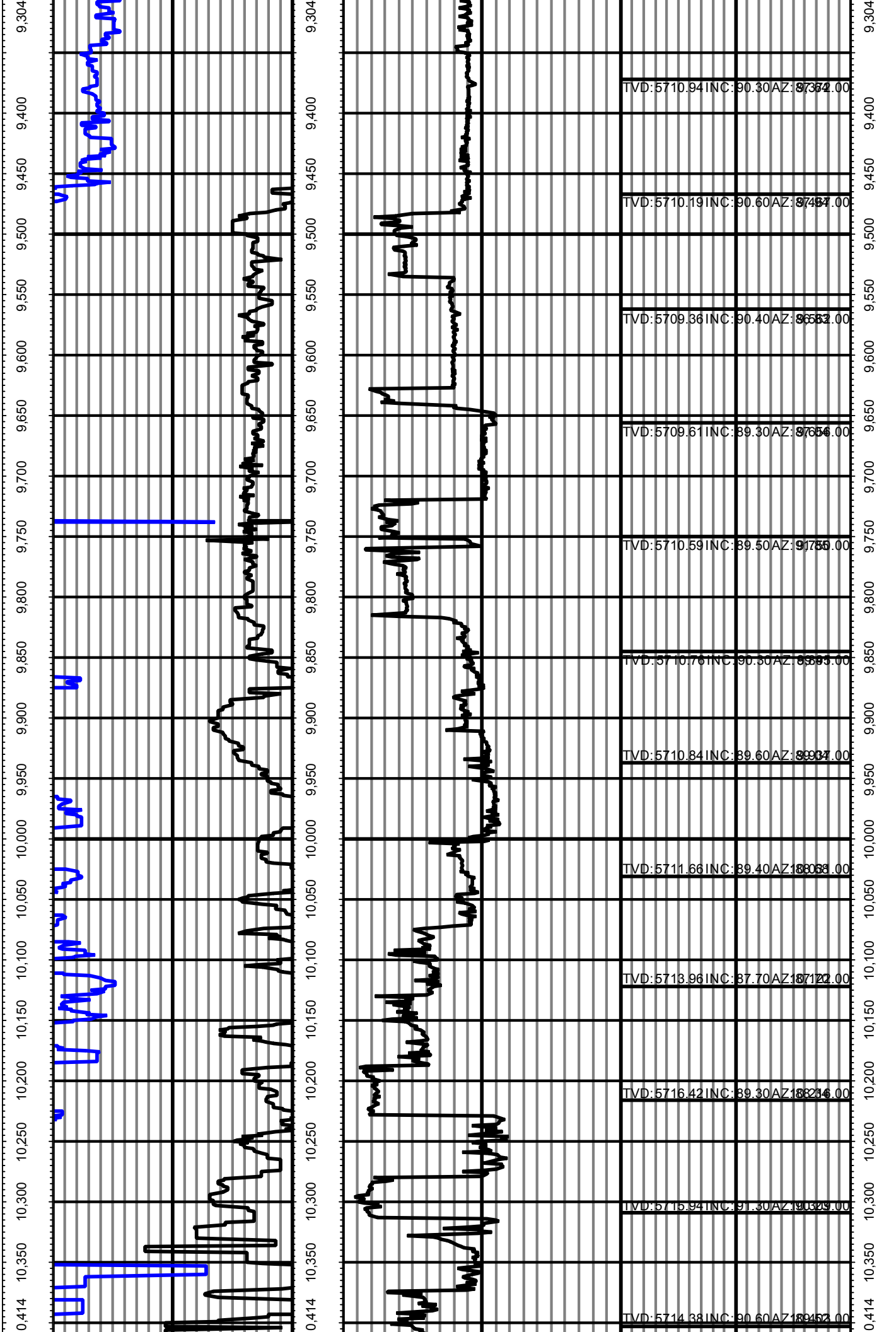












TVD: 5710.94 INC: 90.30 AZ: 97352.00

TVD: 5710.19 INC: 90.60 AZ: 97487.00

TVD: 5709.36 INC: 90.40 AZ: 96562.00

TVD: 5709.61 INC: 89.30 AZ: 97656.00

TVD: 5710.59 INC: 89.50 AZ: 97756.00

TVD: 5710.76 INC: 90.30 AZ: 98095.00

TVD: 5710.84 INC: 89.60 AZ: 98037.00

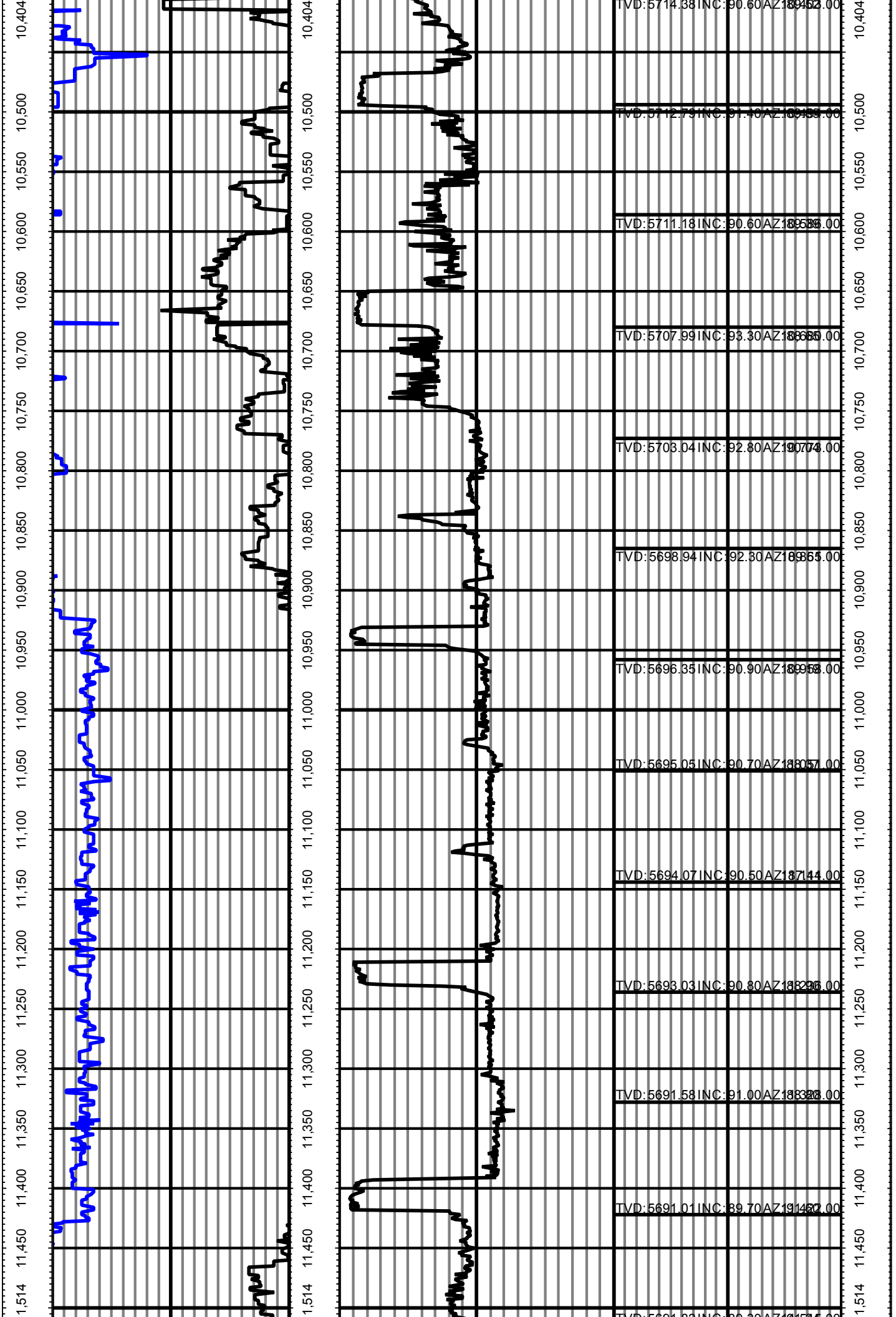
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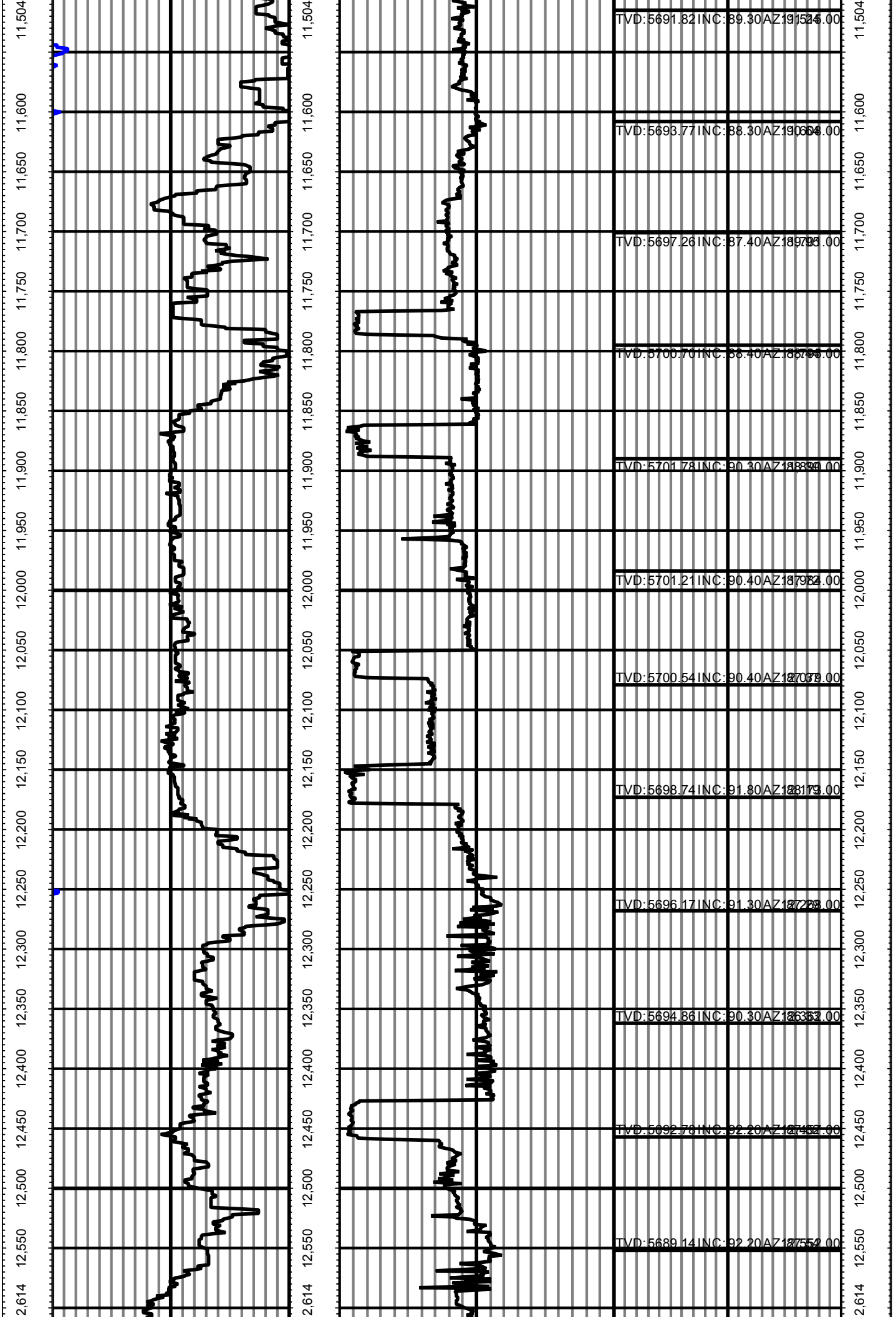
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TVD: 5716.42 INC: 89.30 AZ: 98216.00

TVD: 5715.94 INC: 91.30 AZ: 98329.00

TVD: 5714.38 INC: 90.60 AZ: 98452.00





TVD: 5691.82 INC: 89.30 AZ: 191.52

TVD: 5693.77 INC: 88.30 AZ: 190.65

TVD: 5697.26 INC: 87.40 AZ: 189.98

TVD: 5700.70 INC: 86.40 AZ: 188.95

TVD: 5701.78 INC: 90.30 AZ: 188.90

TVD: 5701.21 INC: 90.40 AZ: 187.84

TVD: 5700.54 INC: 90.40 AZ: 187.09

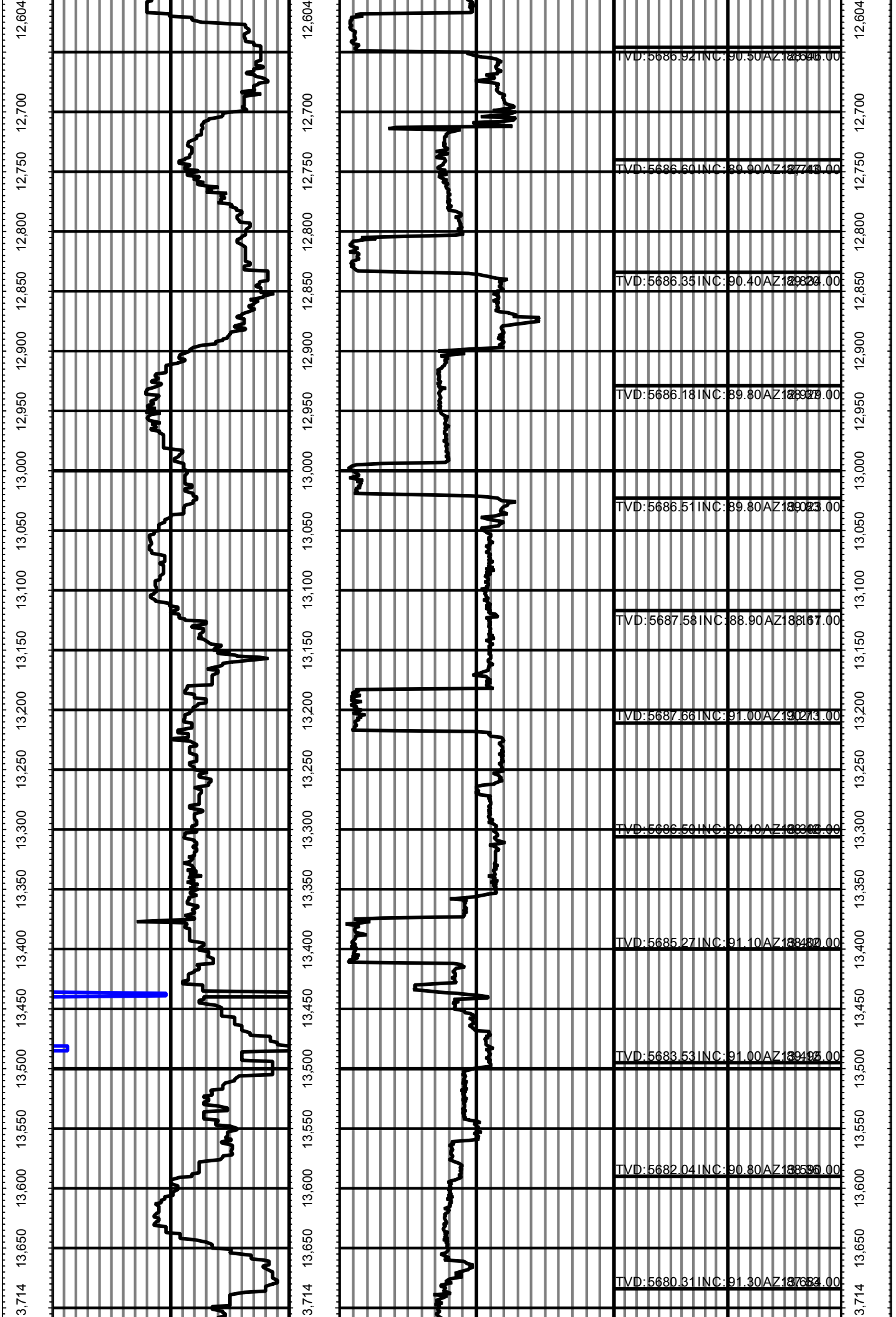
TVD: 5698.74 INC: 91.80 AZ: 186.79

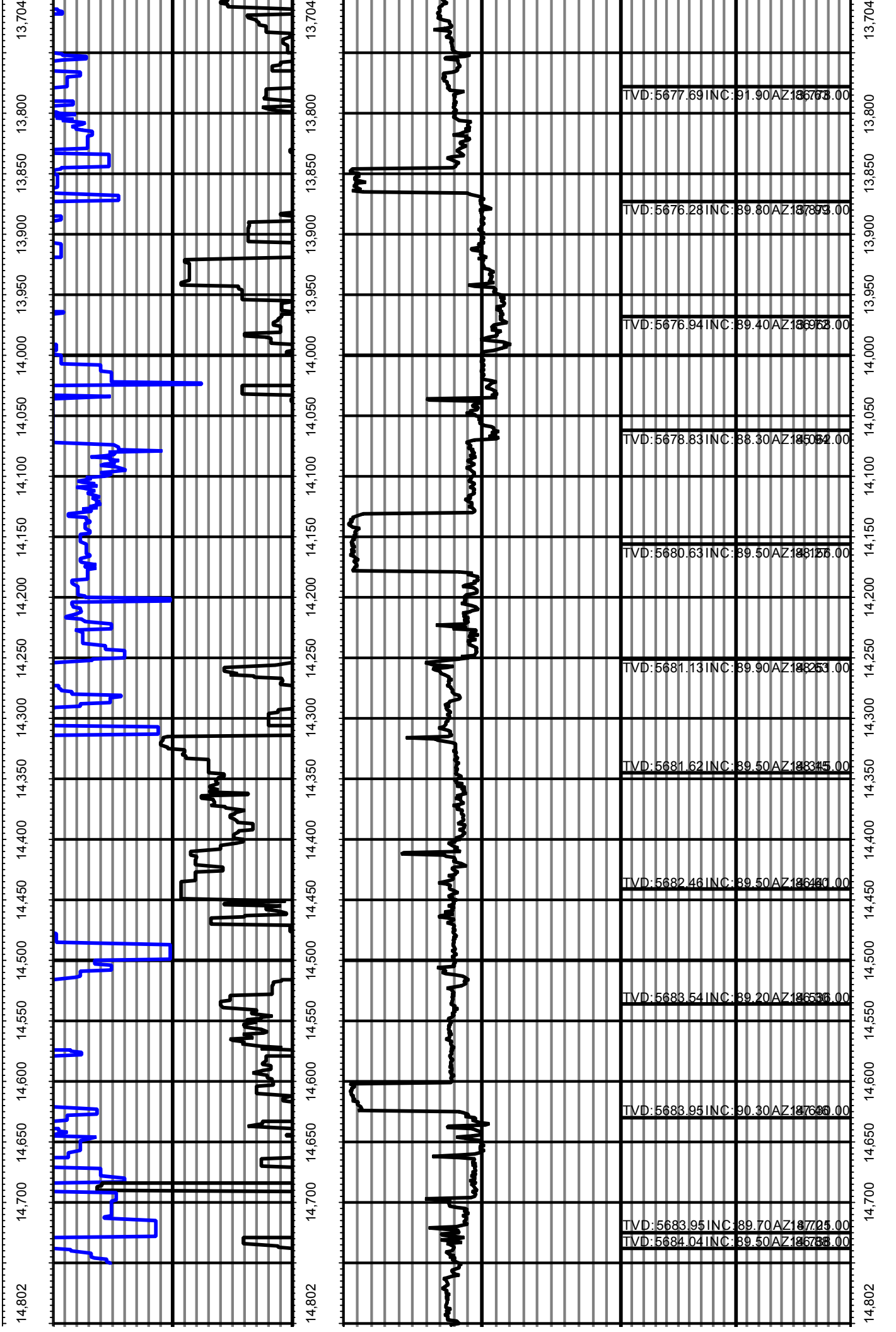
TVD: 5696.17 INC: 91.30 AZ: 187.28

TVD: 5694.86 INC: 90.30 AZ: 186.52

TVD: 5692.76 INC: 92.20 AZ: 187.52

TVD: 5689.14 INC: 92.20 AZ: 187.52





MD	0.00	Counts(mG)	150.00	MD	0.00	ROP(FT/HR)	547.81	Surveys (TVD/INC/AZ)	MD
FT	150.00	2	300.00	FT	547.81	2	1,095.61		FT
					1,095.61	3	1,643.42		