



Digital Drilling Data  
Systems, LLC

# Gamma Log

(Scale: 5":100' (100'))

Company: Cathedral Engery

Well: Flanigan 1C-6H

Field: Wattenberg

Well ID: 51233569300

Job Number: 125489

Location: NWNE S6-T1N-R64W

Operator 1: Richie Moulton

Operator 2: Eric Reichenecker

State: CO

County: Weld

Country: U.S.

Elev KB:

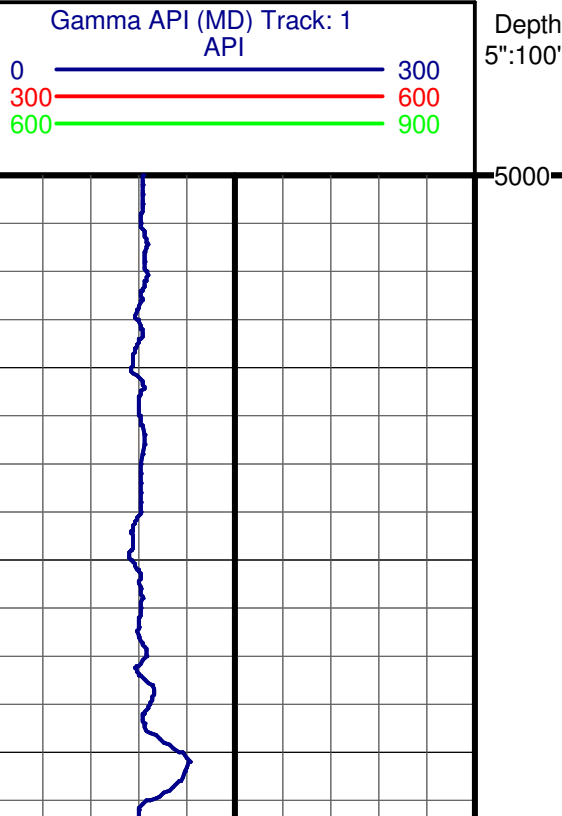
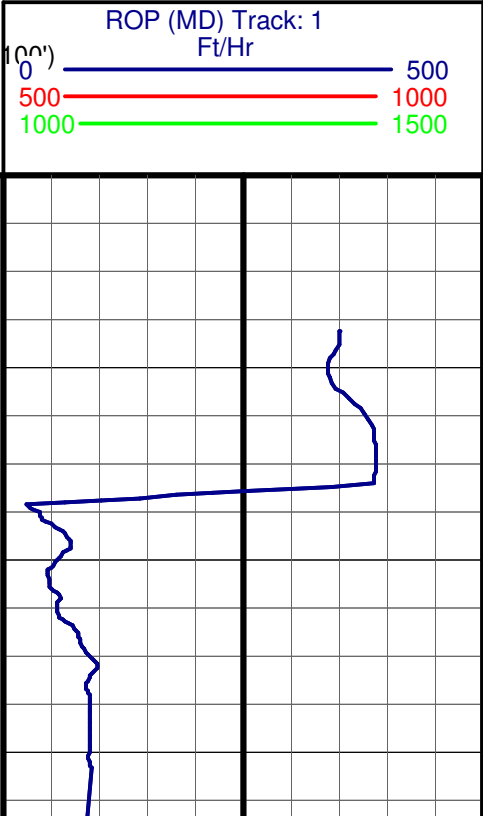
Elev DF: 13

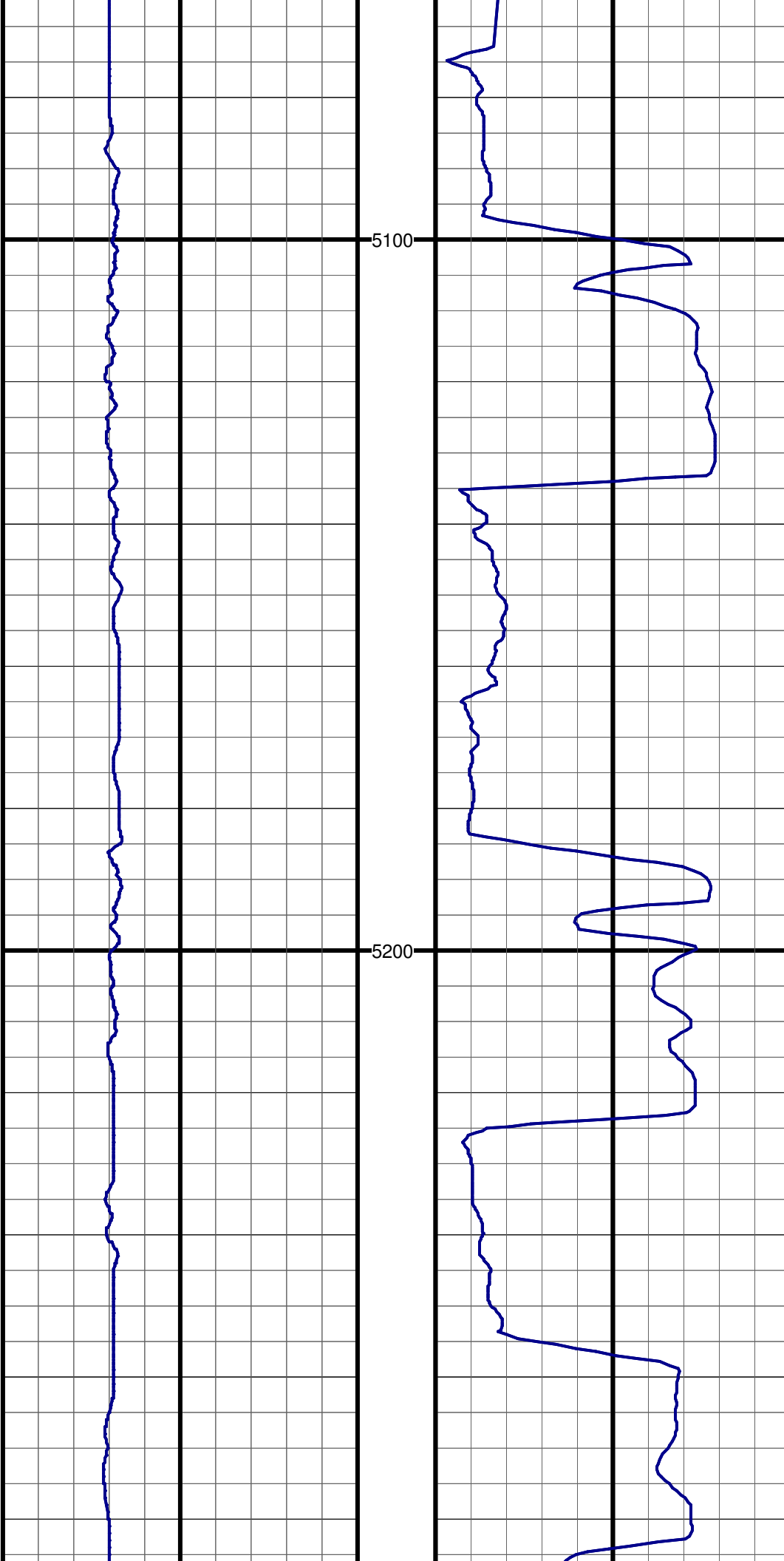
Elev GL: 5016

Comment 1:  
Comment 2:  
Comment 3:  
Comment 4:  
Comment 5:

Hole Data			Casing Record			
Size	From	To	Size	From	To	
12.0	0	1335	9.625	0	1324	
8.75	1335	6688	7.0	0	7391	
8.75	6688	7046	4.5	0	11600	
8.75	7046	7405				
6.125	7405	11630				

Tool Run Data		Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	1278	1278	1278	1278	1014	
Cal Factor	n/a	4.108	4.108	4.108	3.027	
Gamma Offset	n/a	38.5	38.8	38.8	37.1	
Start Depth	90	1345	6688	7046	7405	
Start Date	8/17/12	8/19/12	8/22/12	8/23/12	8/27/12	
Start Time	7:00	6:30	6:30	10:30	11:00	
End Depth	1135	6688	7046	7405	11630	
End Date	8/17/12	8/22/12	8/23/12	8/26/12	8/31/12	
End Time	18:30	6:00	10:00	1:30	16:00	

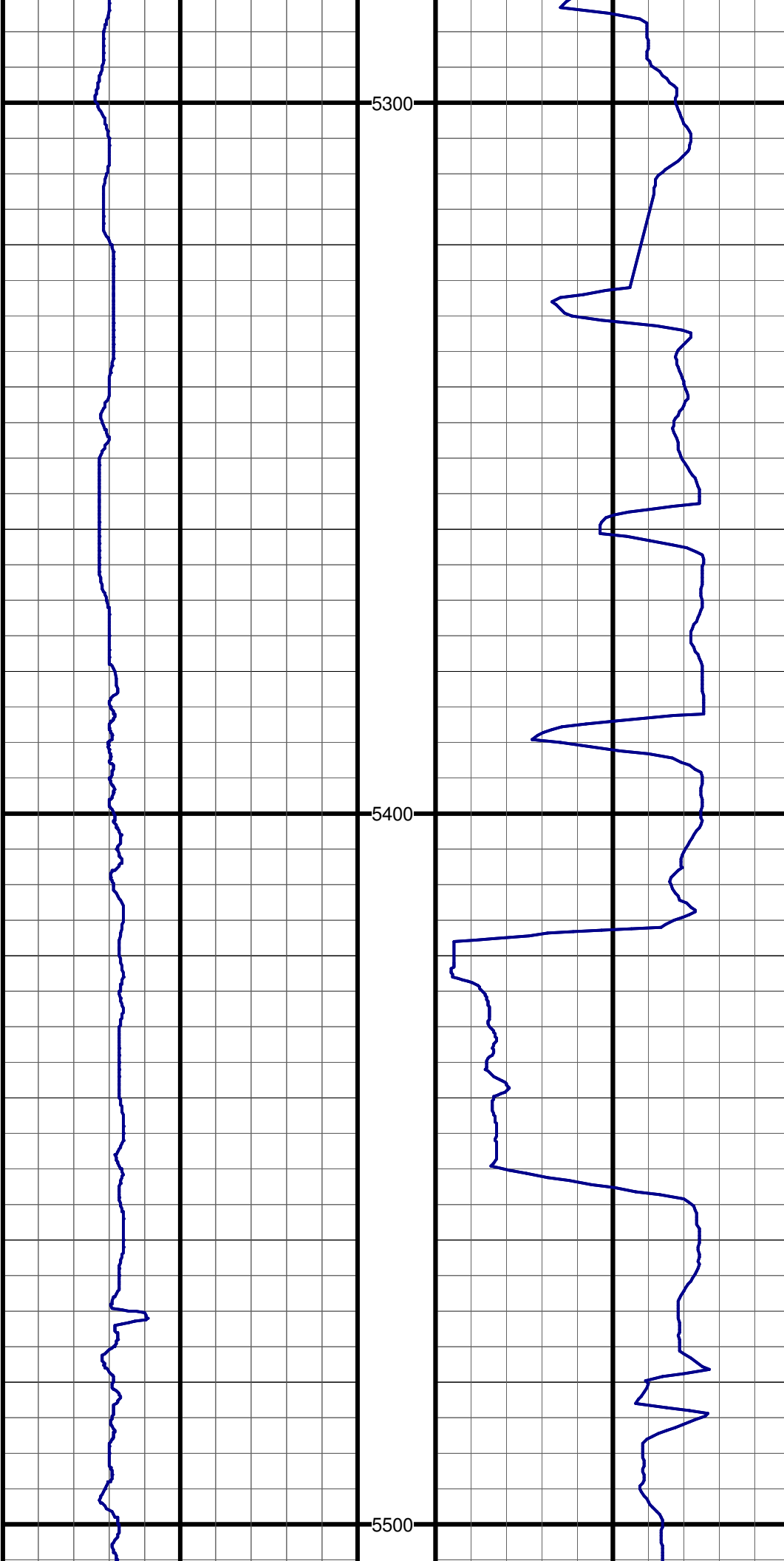




#1 MD:5086.0 TVD:5084.0 I:8.9 A:305.0 VS:9.7

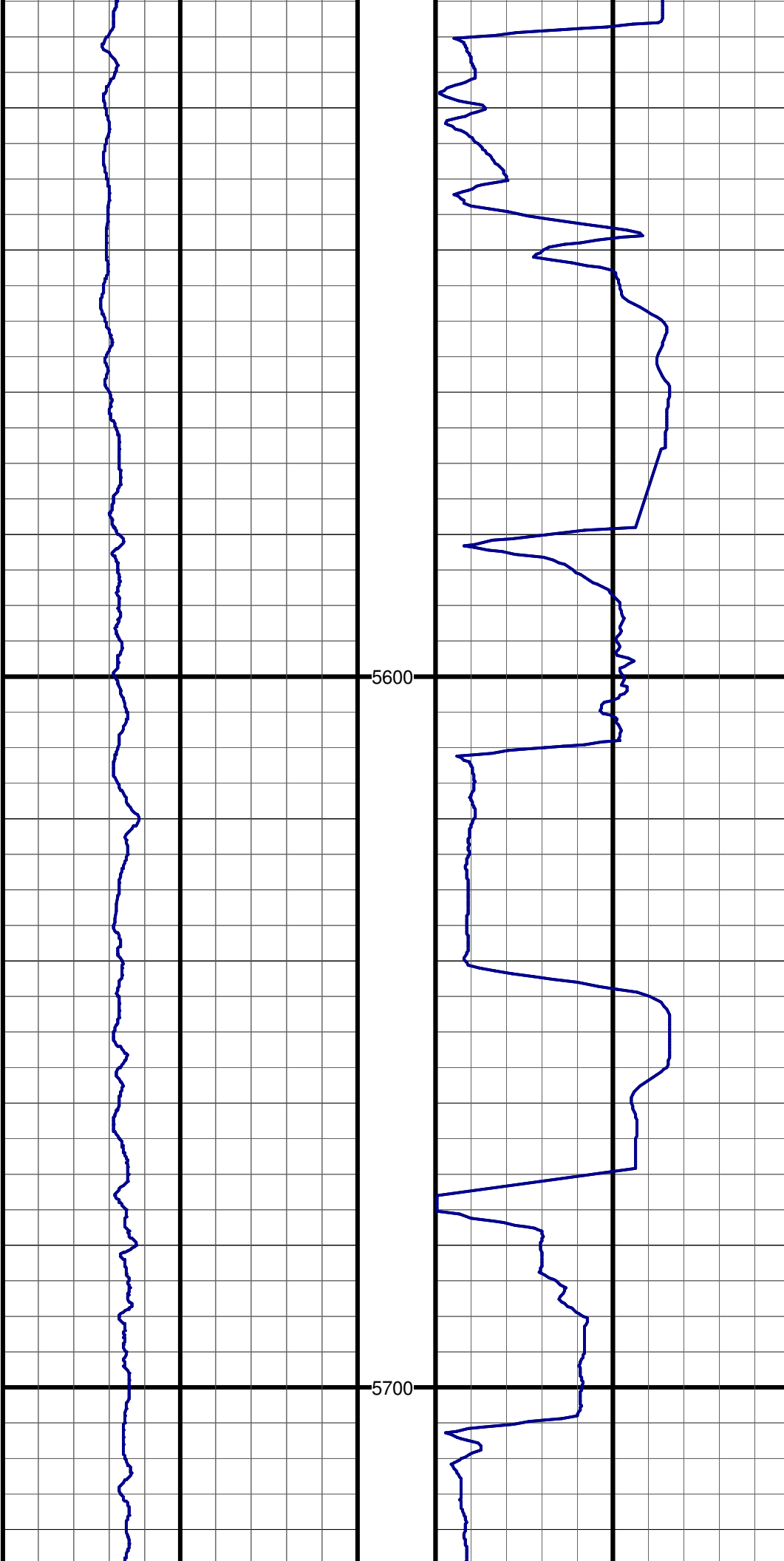
#2 MD:5181.0 TVD:5177.5 I:10.9 A:313.0 VS:-0.6

#3 MD:5276.0 TVD:5270.6 I:12.5 A:322.4 VS:-14.9



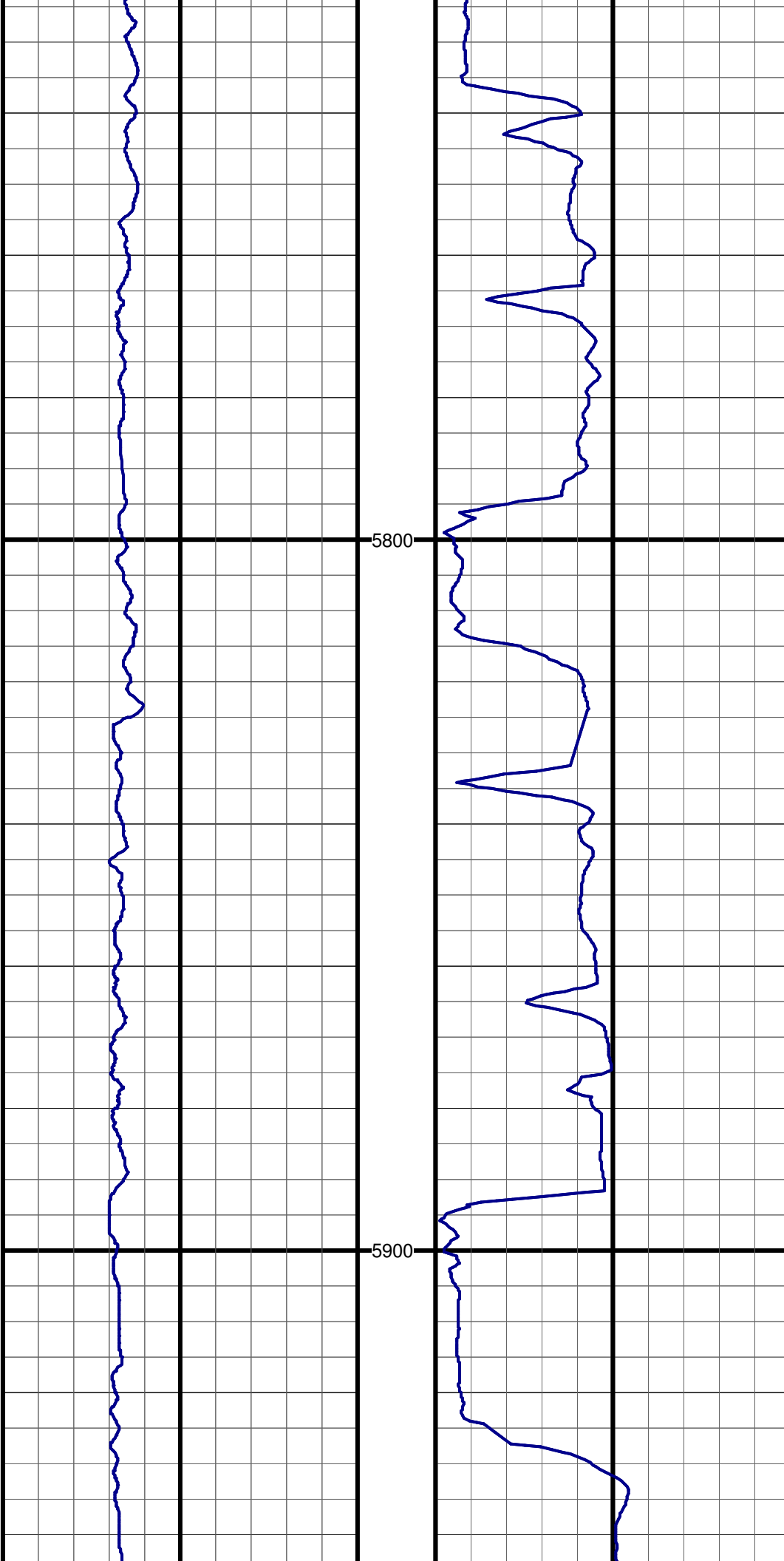
#4 MD:5371.0 TVD:5363.5 I:11.2 A:322.8 VS:-30.4

#5 MD:5465.0 TVD:5455.7 I:11.6 A:324.6 VS:-45.4



#6 MD:5560.0 TVD:5548.9 I:10.4 A:326.4 VS:-60.3

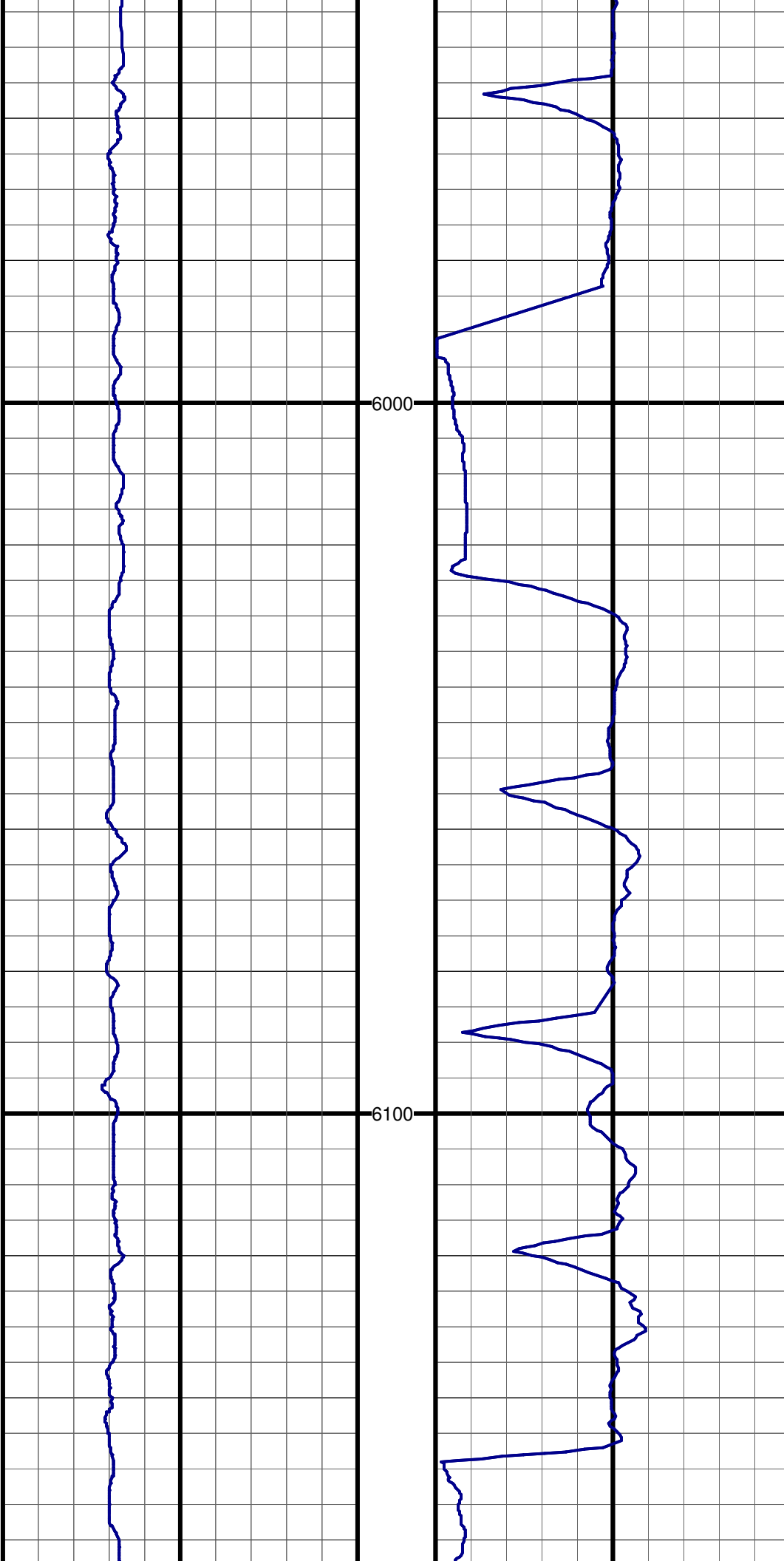
#7 MD:5655.0 TVD:5642.3 I:10.9 A:322.3 VS:-74.6



#8 MD:5750.0 TVD:5735.4 I:11.9 A:326.1 VS:-89.8

#9 MD:5845.0 TVD:5828.4 I:11.6 A:326.6 VS:-105.9

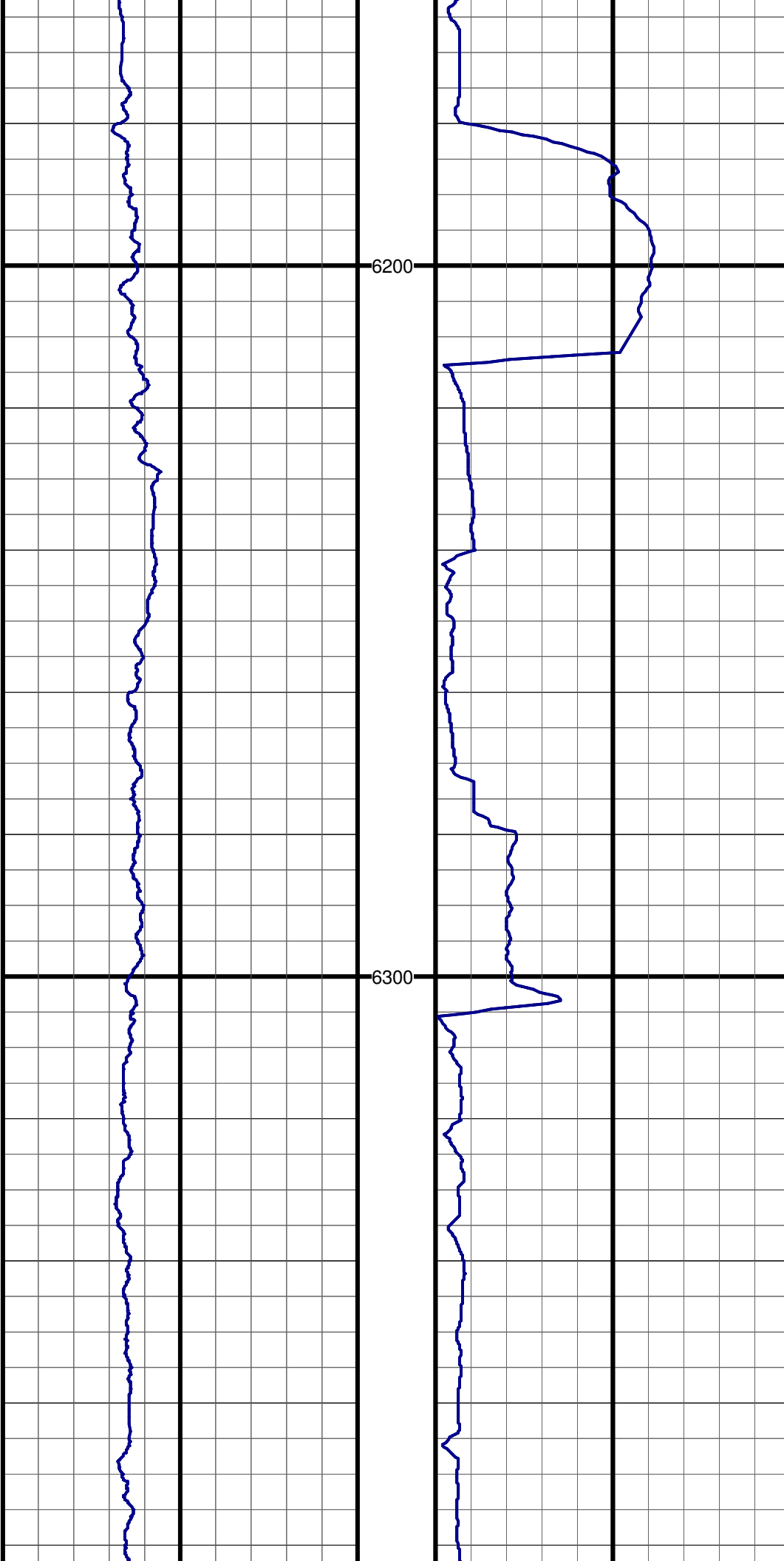
#10 MD:5941.0 TVD:5922.4 I:12.1 A:326.1 VS:-122.3



#11 MD:6036.0 TVD:6015.2 I:12.9 A:317.0 VS:-138.3

#12 MD:6099.0 TVD:6076.9 I:10.3 A:314.9 VS:-147.4

#13 MD:6162.0 TVD:6138.9 I:10.0 A:314.8 VS:-155.3



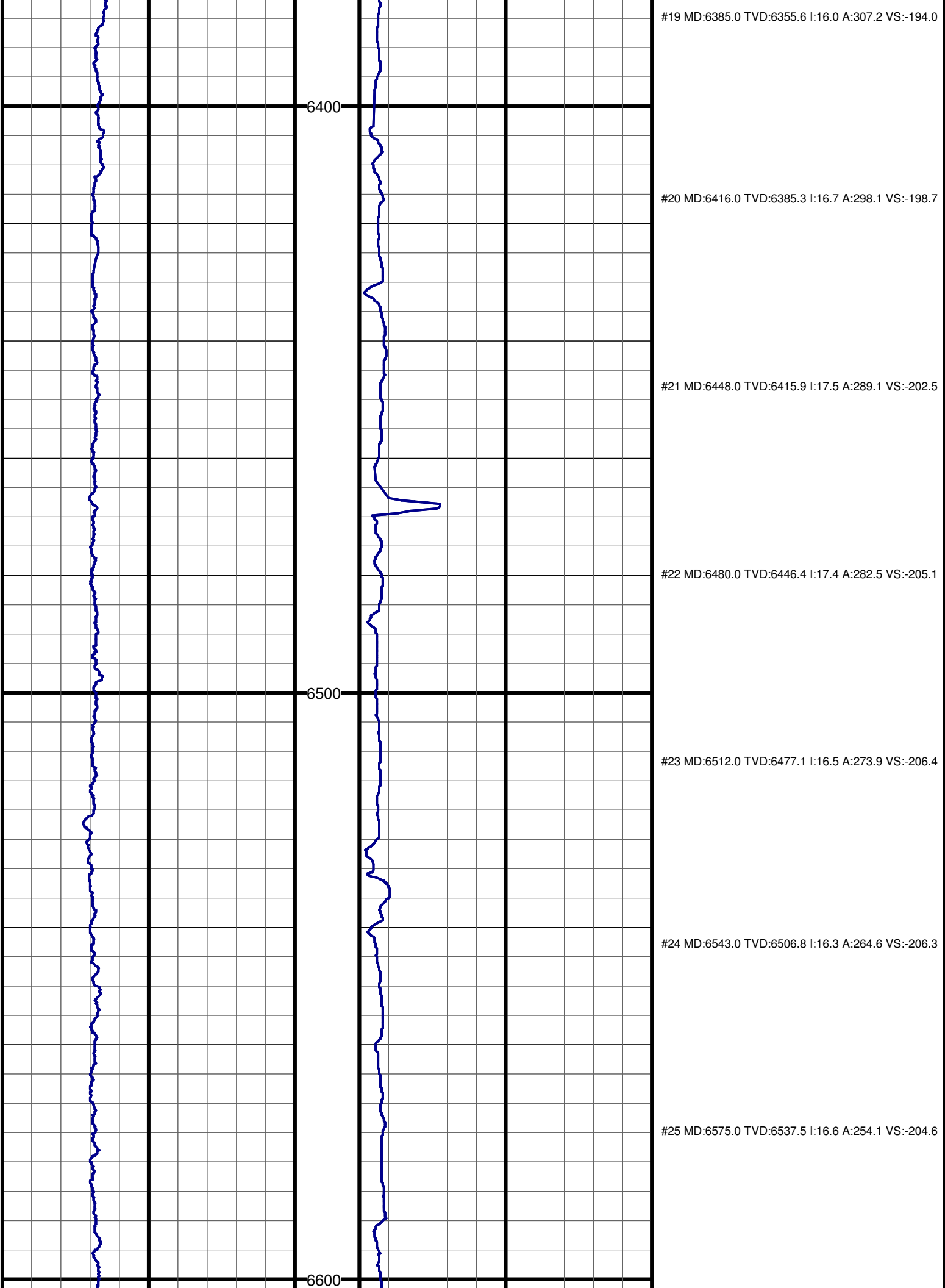
#14 MD:6226.0 TVD:6201.7 I:11.8 A:318.4 VS:-164.1

#15 MD:6258.0 TVD:6232.9 I:14.0 A:321.7 VS:-169.6

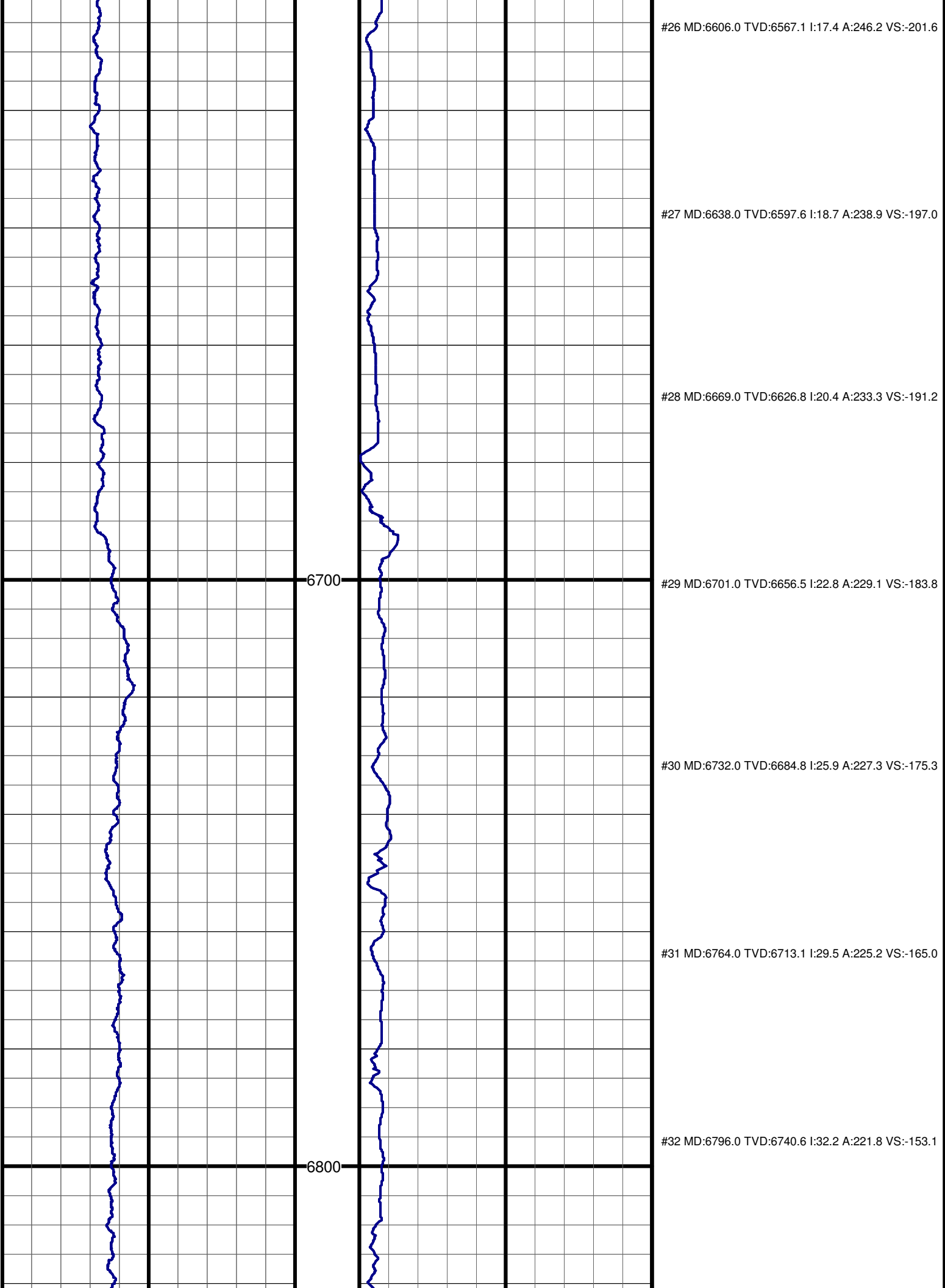
#16 MD:6290.0 TVD:6263.9 I:14.5 A:322.3 VS:-175.8

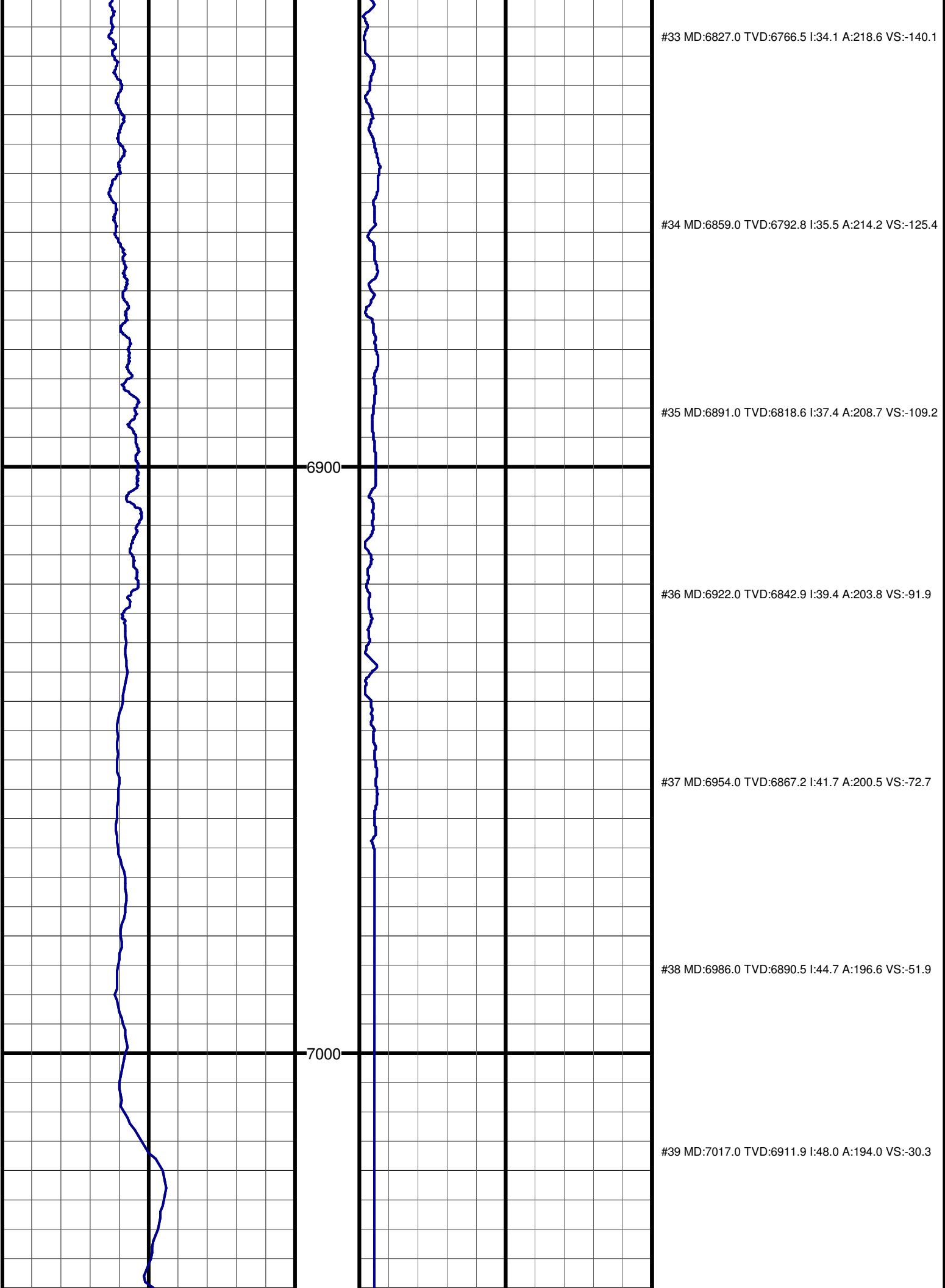
#17 MD:6321.0 TVD:6293.9 I:14.9 A:321.2 VS:-182.0

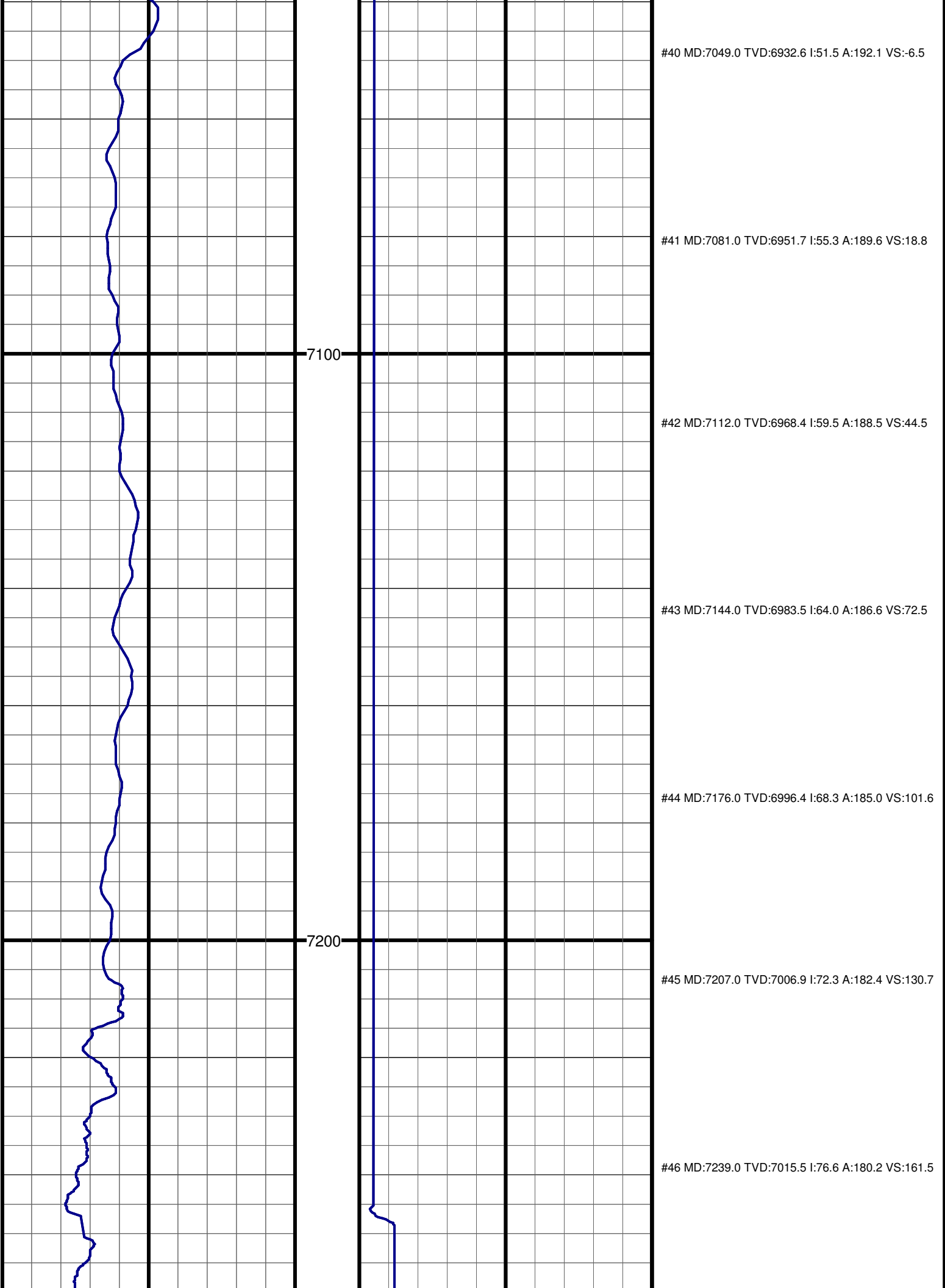
#18 MD:6353.0 TVD:6324.8 I:15.7 A:315.9 VS:-188.3

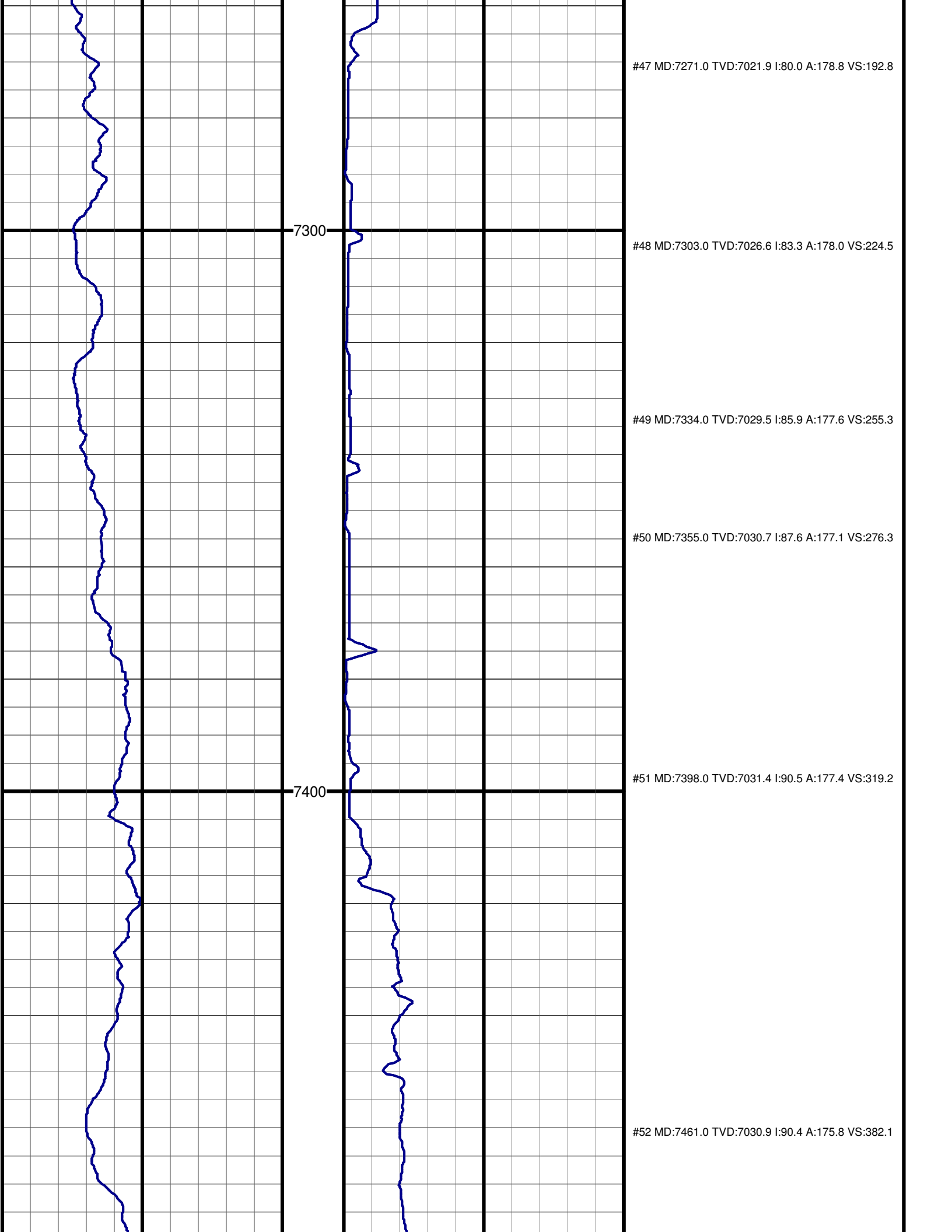


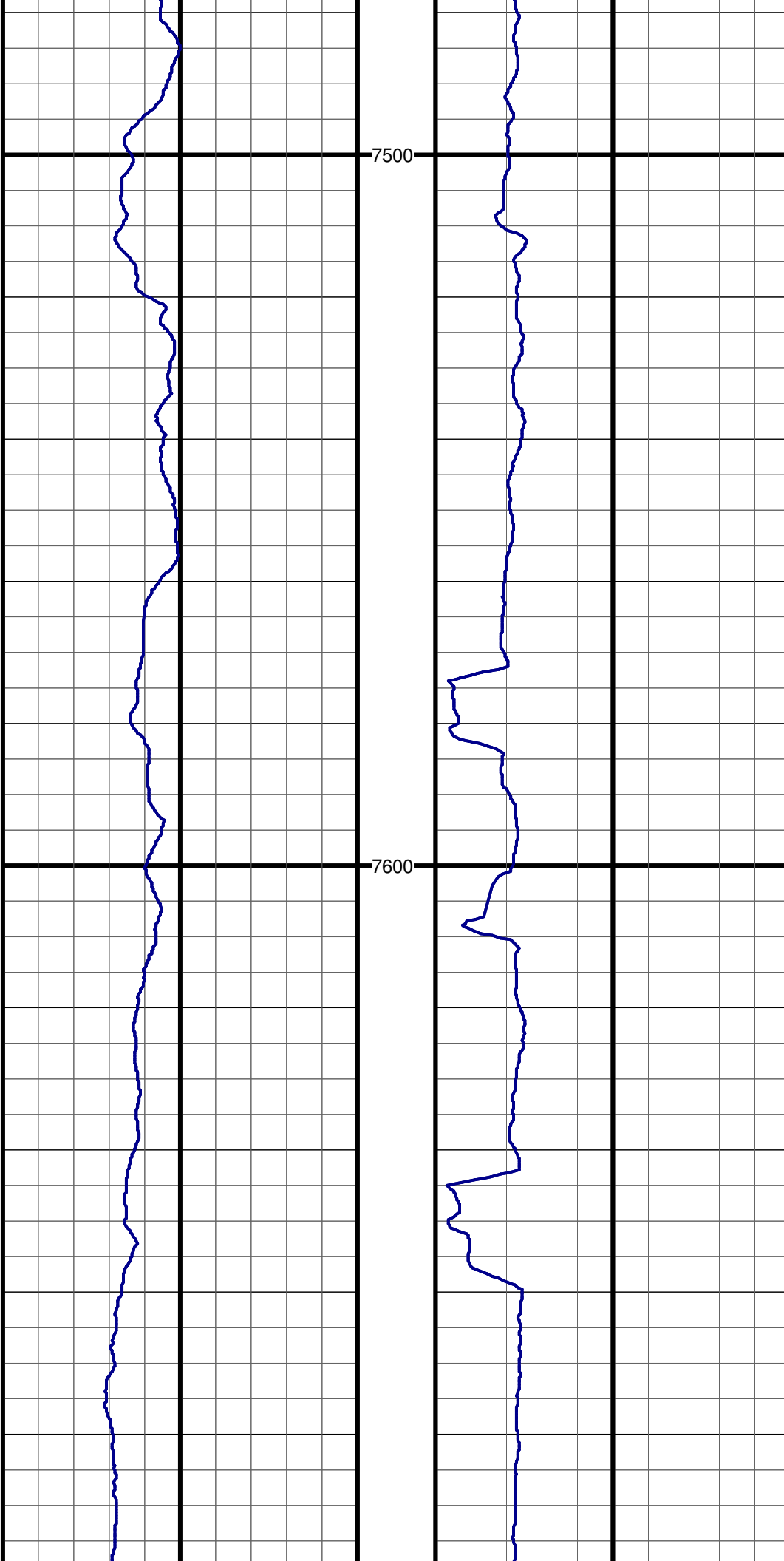












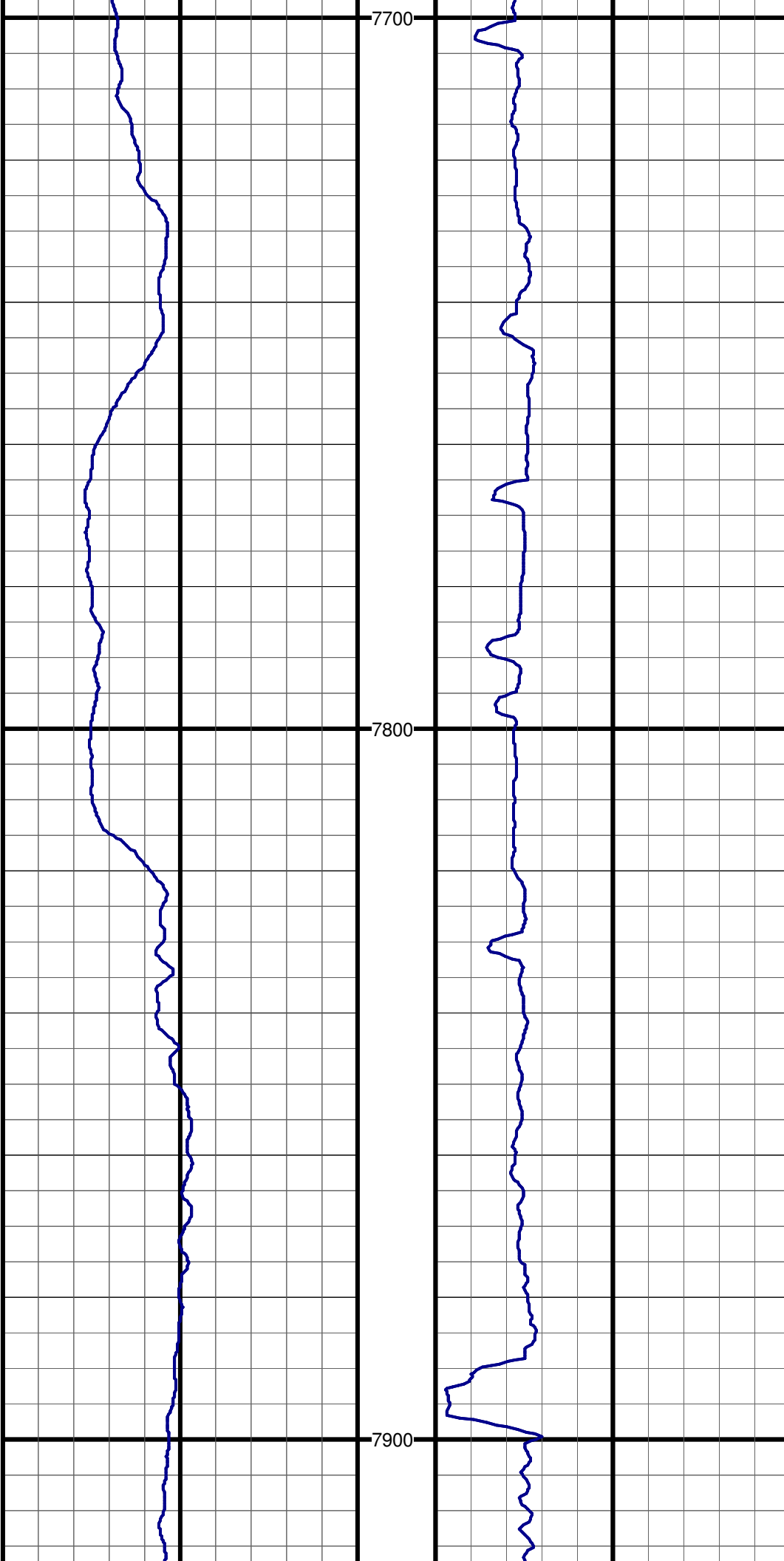
7500

7600

#53 MD:7525.0 TVD:7030.2 I:90.9 A:175.4 VS:445.9

#54 MD:7588.0 TVD:7029.4 I:90.6 A:175.8 VS:508.7

#55 MD:7652.0 TVD:7029.1 I:89.8 A:176.5 VS:572.6

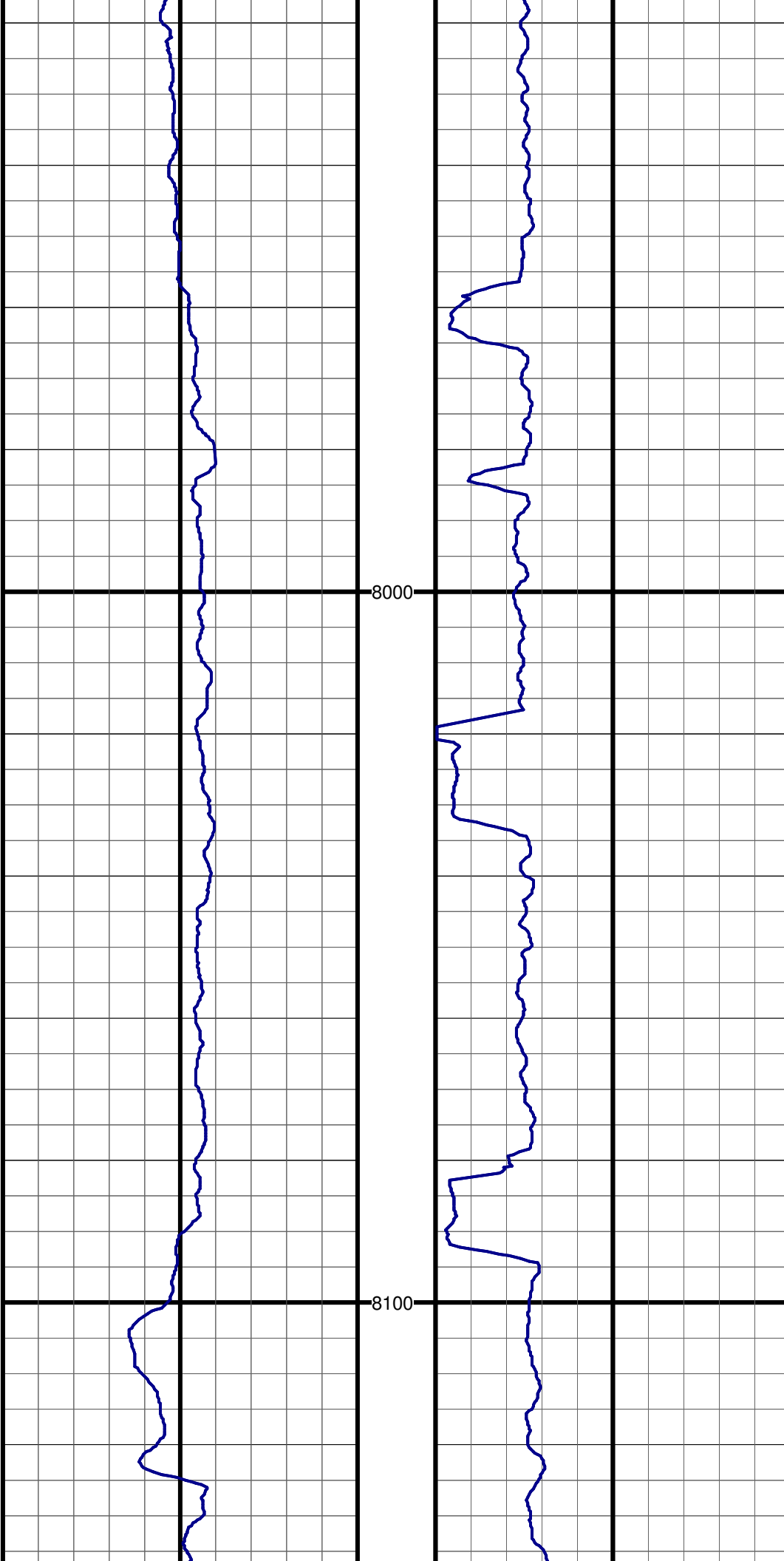


#56 MD:7715.0 TVD:7029.2 I:90.1 A:176.7 VS:635.5

#57 MD:7779.0 TVD:7029.1 I:90.0 A:176.1 VS:699.3

#58 MD:7842.0 TVD:7029.1 I:90.1 A:175.8 VS:762.2

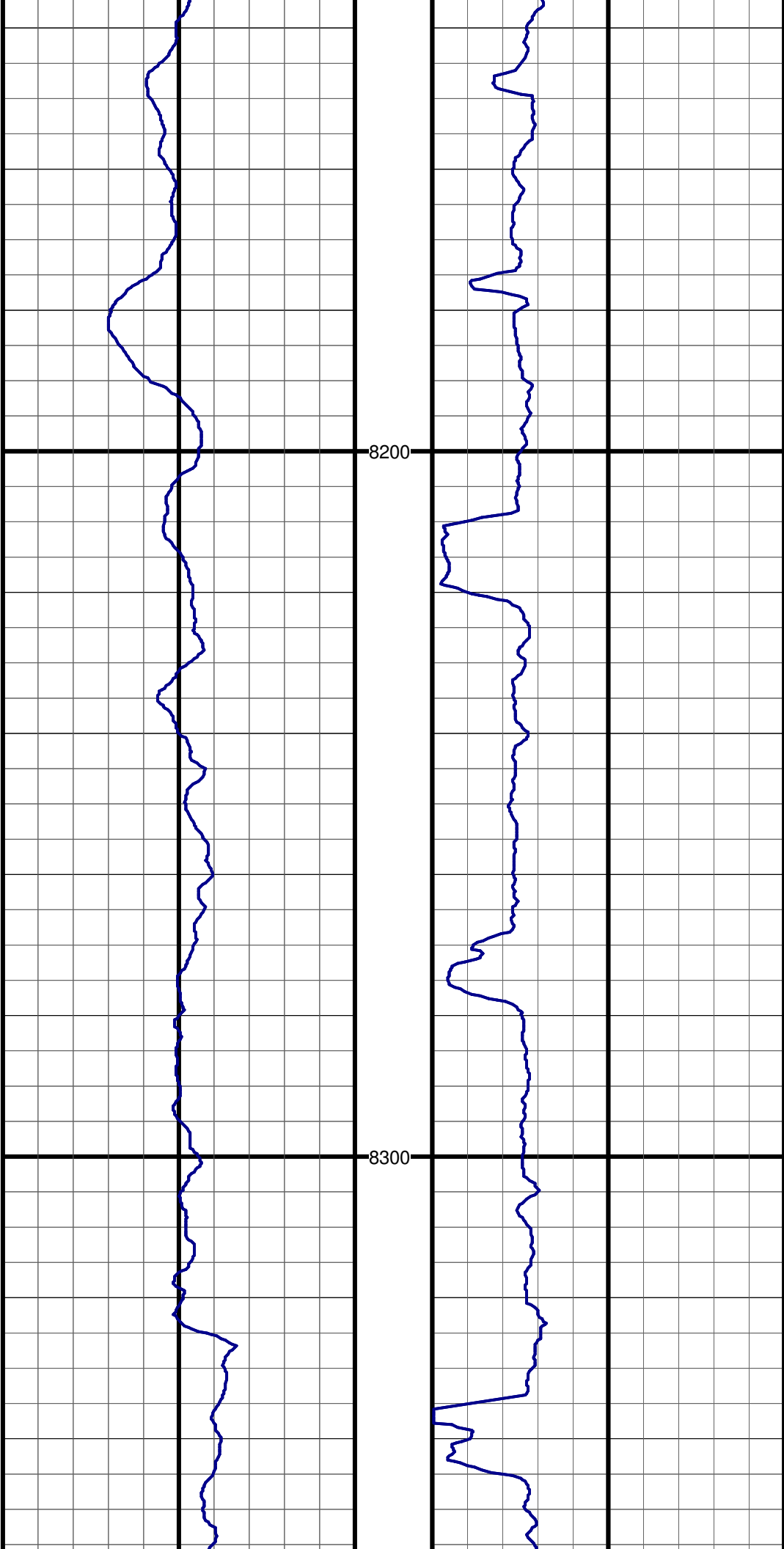
#59 MD:7905.0 TVD:7029.2 I:89.7 A:174.9 VS:825.0



#60 MD:7969.0 TVD:7030.5 I:88.0 A:174.5 VS:888.7

#61 MD:8032.0 TVD:7032.0 I:89.2 A:175.1 VS:951.4

#62 MD:8096.0 TVD:7031.3 I:92.1 A:175.3 VS:1015.2



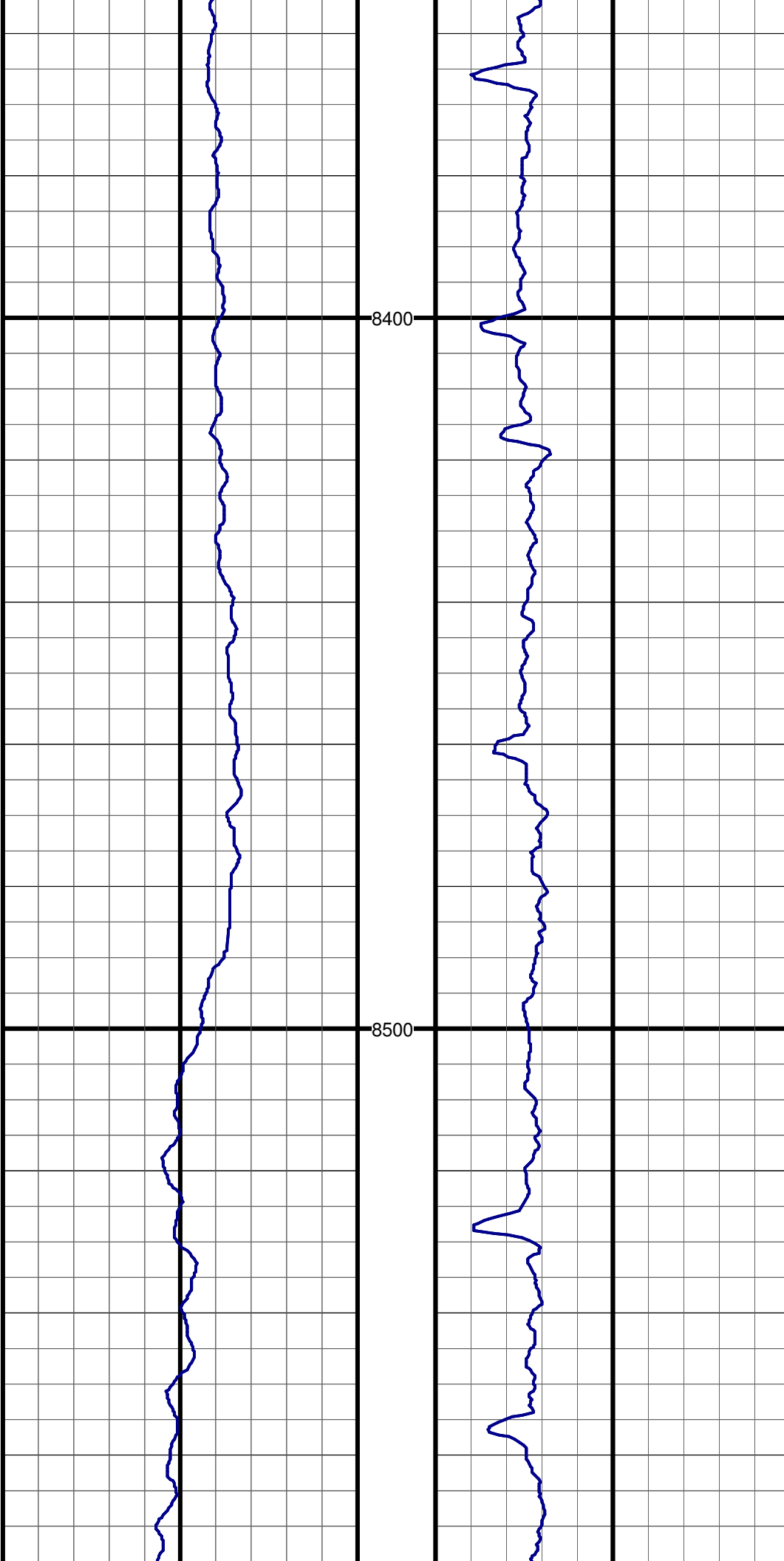
#63 MD:8159.0 TVD:7028.4 I:93.1 A:174.4 VS:1077.8

#64 MD:8222.0 TVD:7025.6 I:92.1 A:174.4 VS:1140.5

#65 MD:8286.0 TVD:7023.5 I:91.7 A:174.8 VS:1204.1

#66 MD:8349.0 TVD:7022.1 I:90.7 A:175.1 VS:1266.9

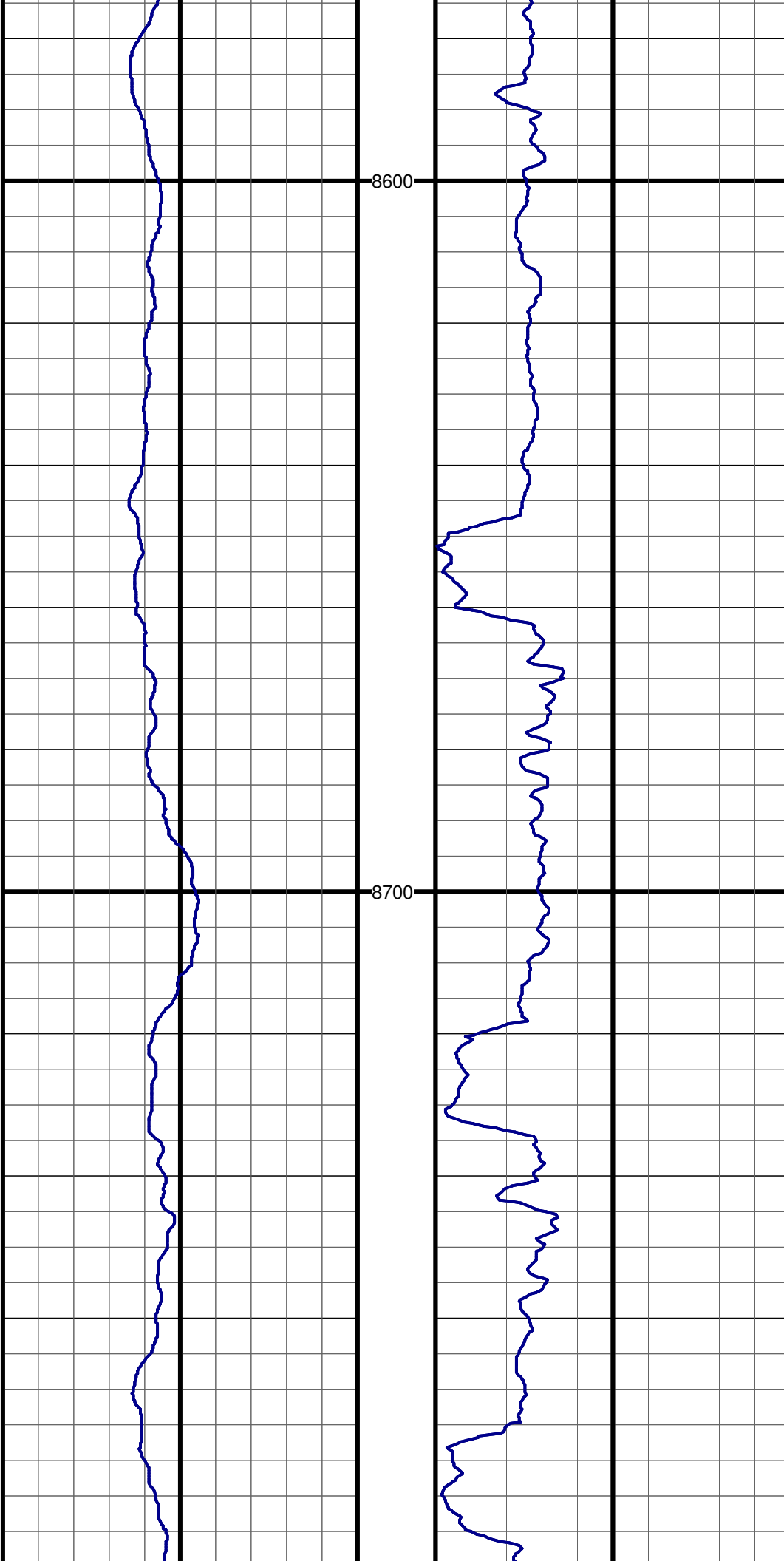




#67 MD:8413.0 TVD:7021.3 I:90.8 A:175.0 VS:1330.6

#68 MD:8476.0 TVD:7020.4 I:90.9 A:174.5 VS:1393.4

#69 MD:8539.0 TVD:7019.3 I:91.0 A:174.3 VS:1456.1



8600

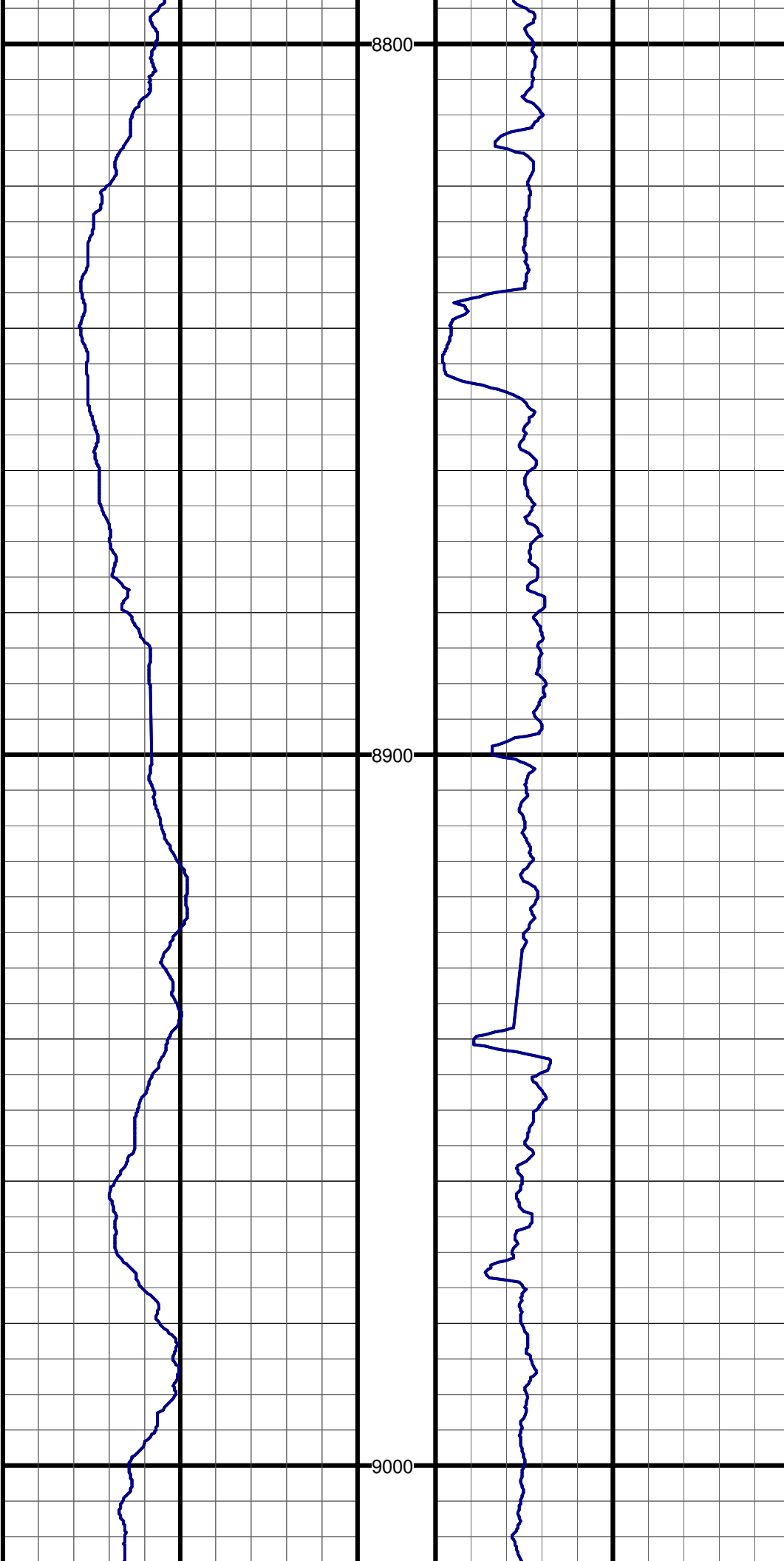
#70 MD:8603.0 TVD:7018.0 I:91.4 A:174.3 VS:1519.7

#71 MD:8666.0 TVD:7015.9 I:92.4 A:174.7 VS:1582.4

8700

#72 MD:8730.0 TVD:7013.7 I:91.5 A:176.5 VS:1646.2

#73 MD:8793.0 TVD:7012.3 I:91.0 A:178.0 VS:1709.1



8800

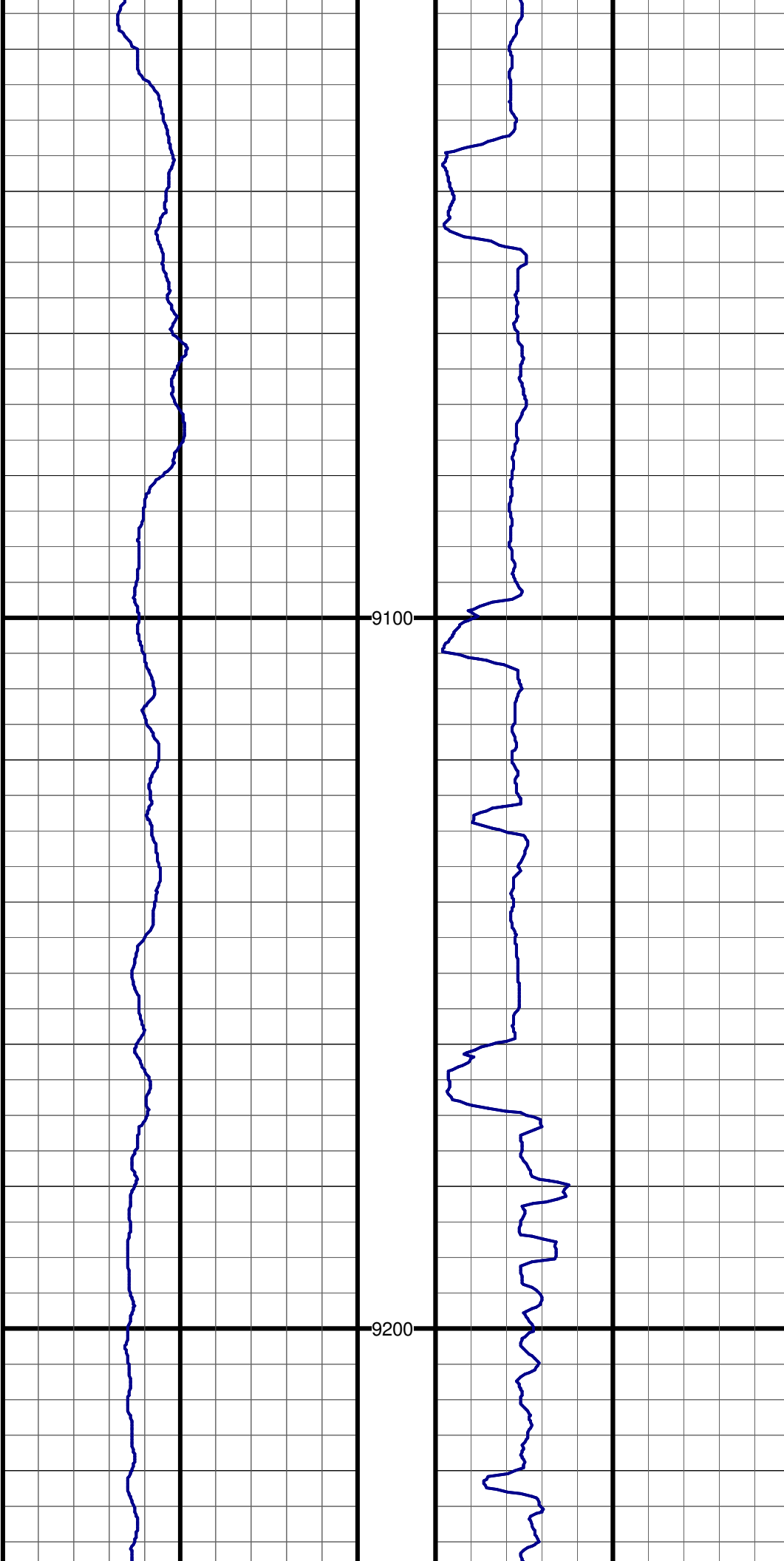
#74 MD:8856.0 TVD:7011.8 I:89.9 A:179.2 VS:1772.1

8900

#75 MD:8920.0 TVD:7011.6 I:90.5 A:180.0 VS:1836.1

9000

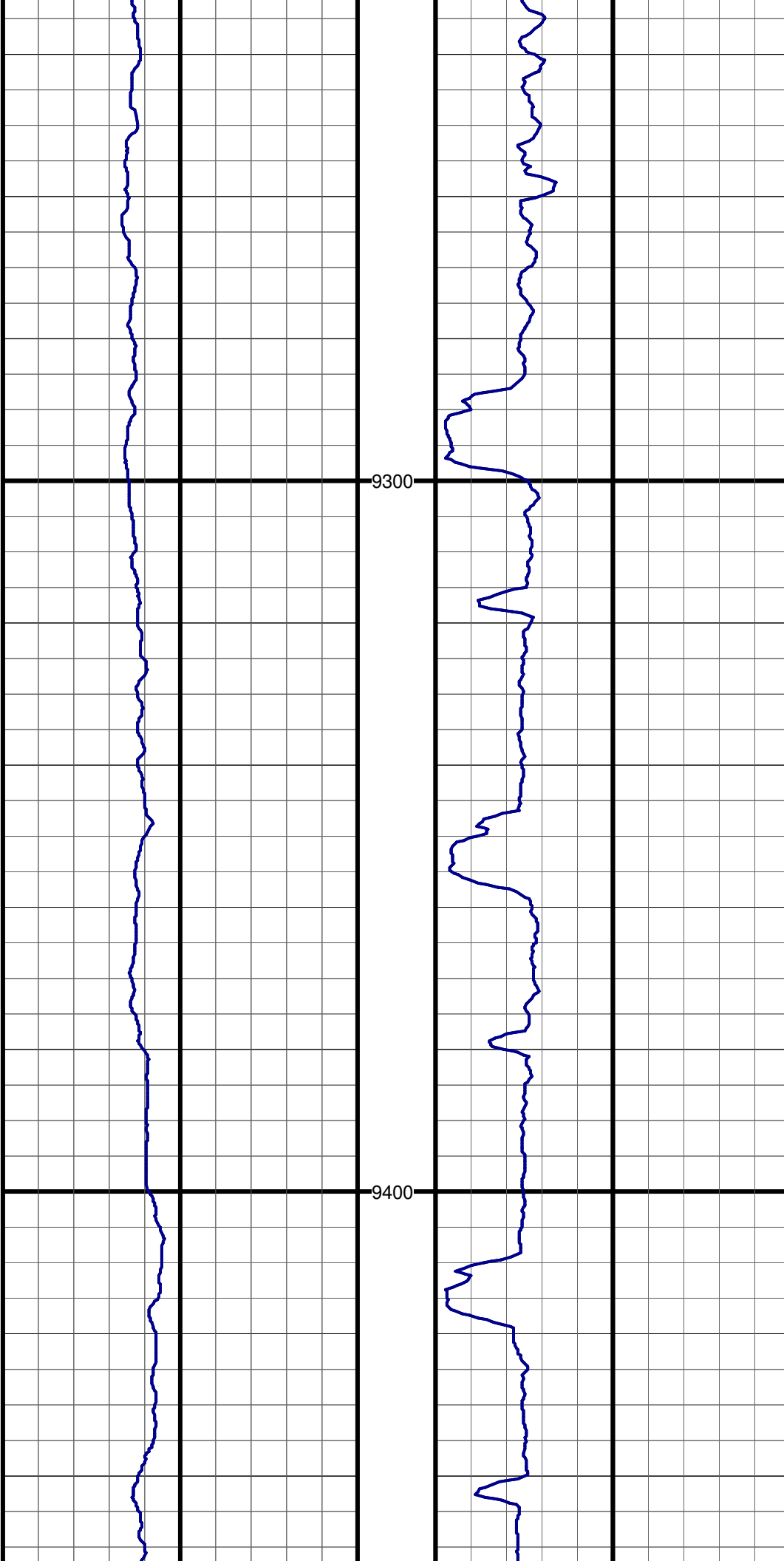
#76 MD:8983.0 TVD:7010.5 I:91.5 A:179.5 VS:1899.1



#77 MD:9047.0 TVD:7009.5 I:90.4 A:180.7 VS:1963.0

#78 MD:9110.0 TVD:7009.3 I:89.9 A:180.2 VS:2026.0

#79 MD:9173.0 TVD:7009.7 I:89.3 A:180.7 VS:2089.0



#80 MD:9237.0 TVD:7009.7 I:90.7 A:183.0 VS:2153.0

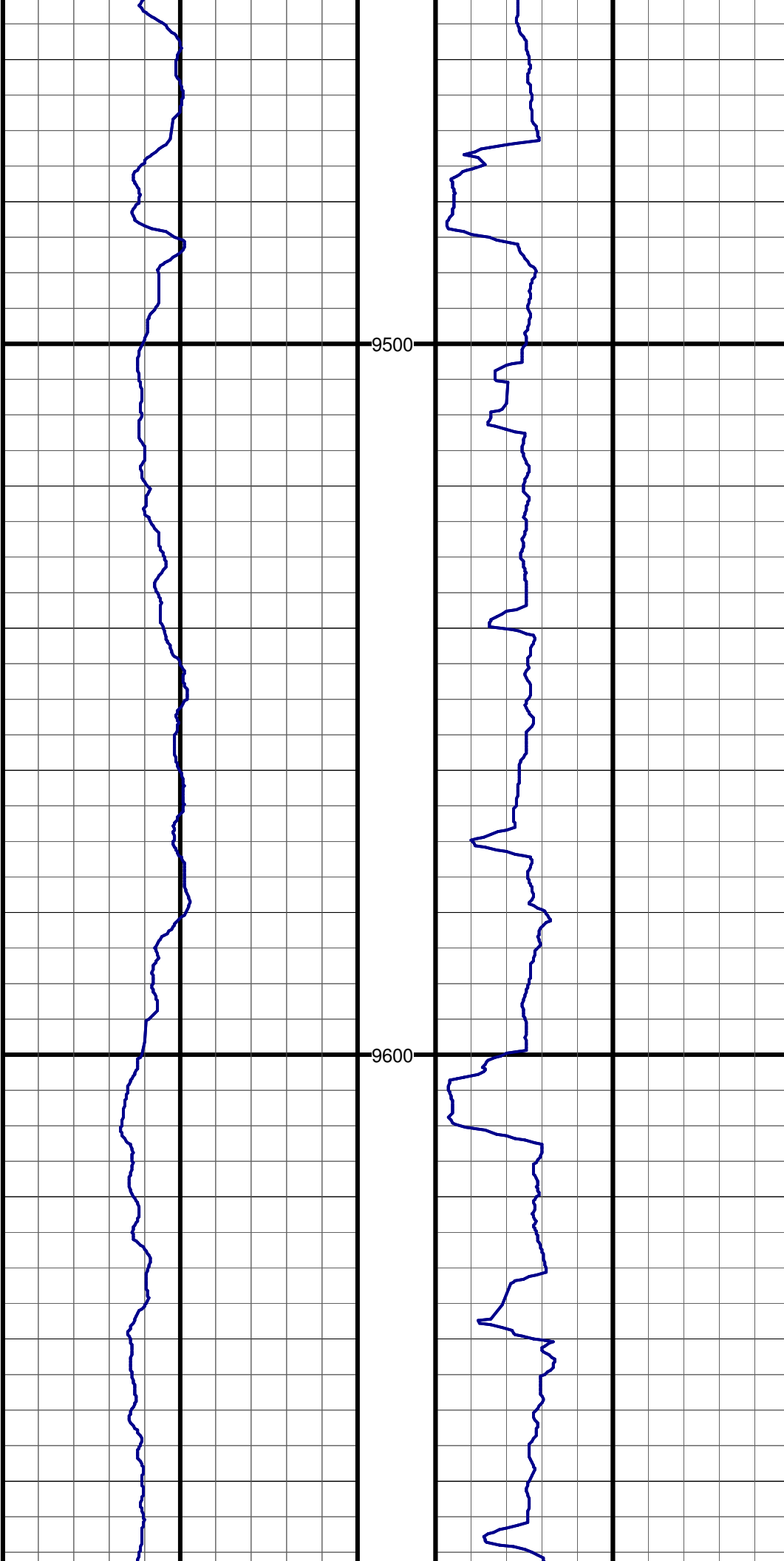
9300

#81 MD:9300.0 TVD:7009.2 I:90.2 A:181.4 VS:2215.9

9400

#82 MD:9363.0 TVD:7009.2 I:89.8 A:180.1 VS:2278.9

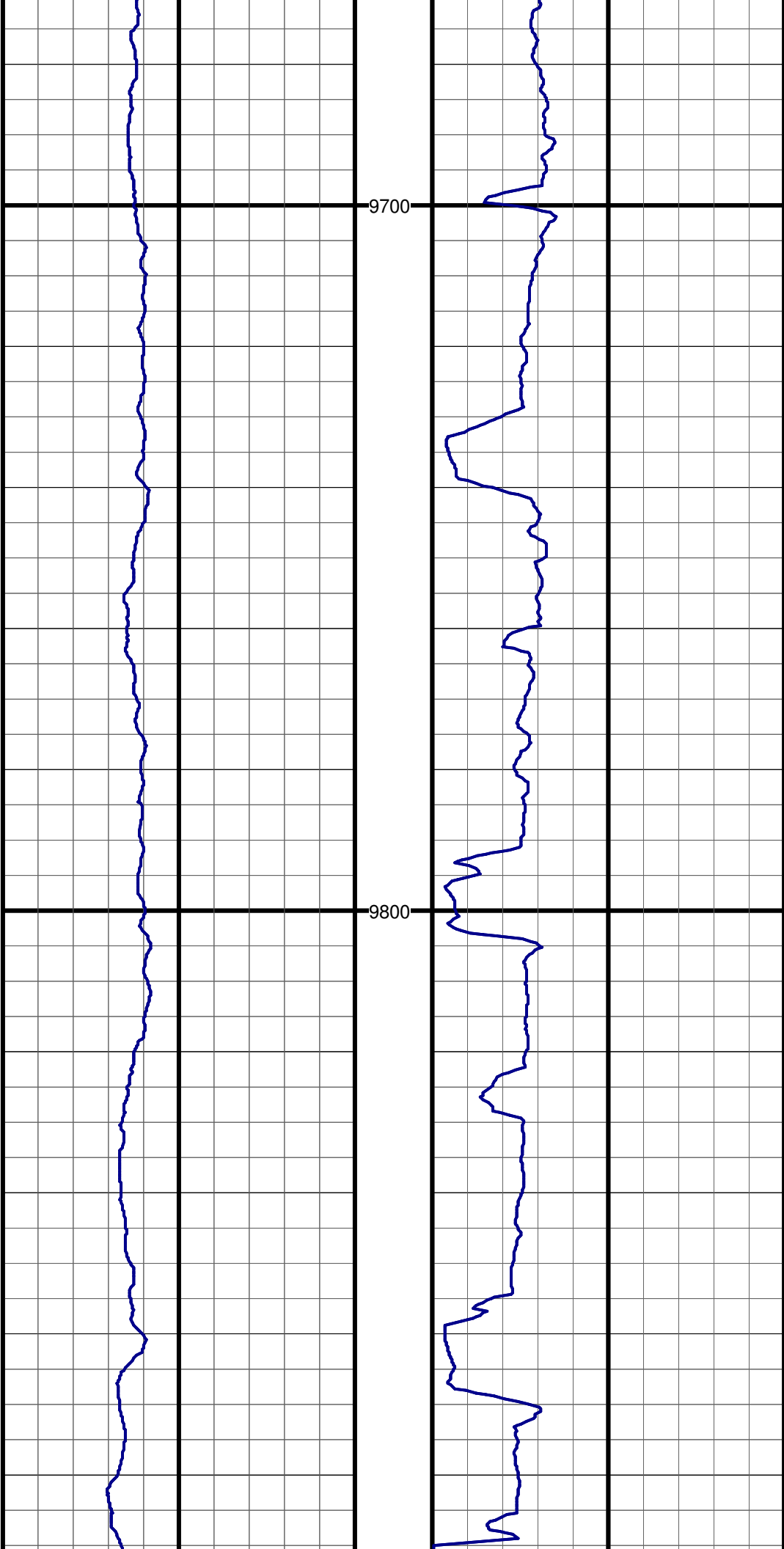
#83 MD:9427.0 TVD:7009.3 I:90.1 A:180.0 VS:2342.9



#84 MD:9490.0 TVD:7010.3 I:88.0 A:179.2 VS:2405.9

#85 MD:9554.0 TVD:7012.8 I:87.6 A:179.0 VS:2469.9

#86 MD:9617.0 TVD:7014.6 I:89.2 A:178.9 VS:2532.8

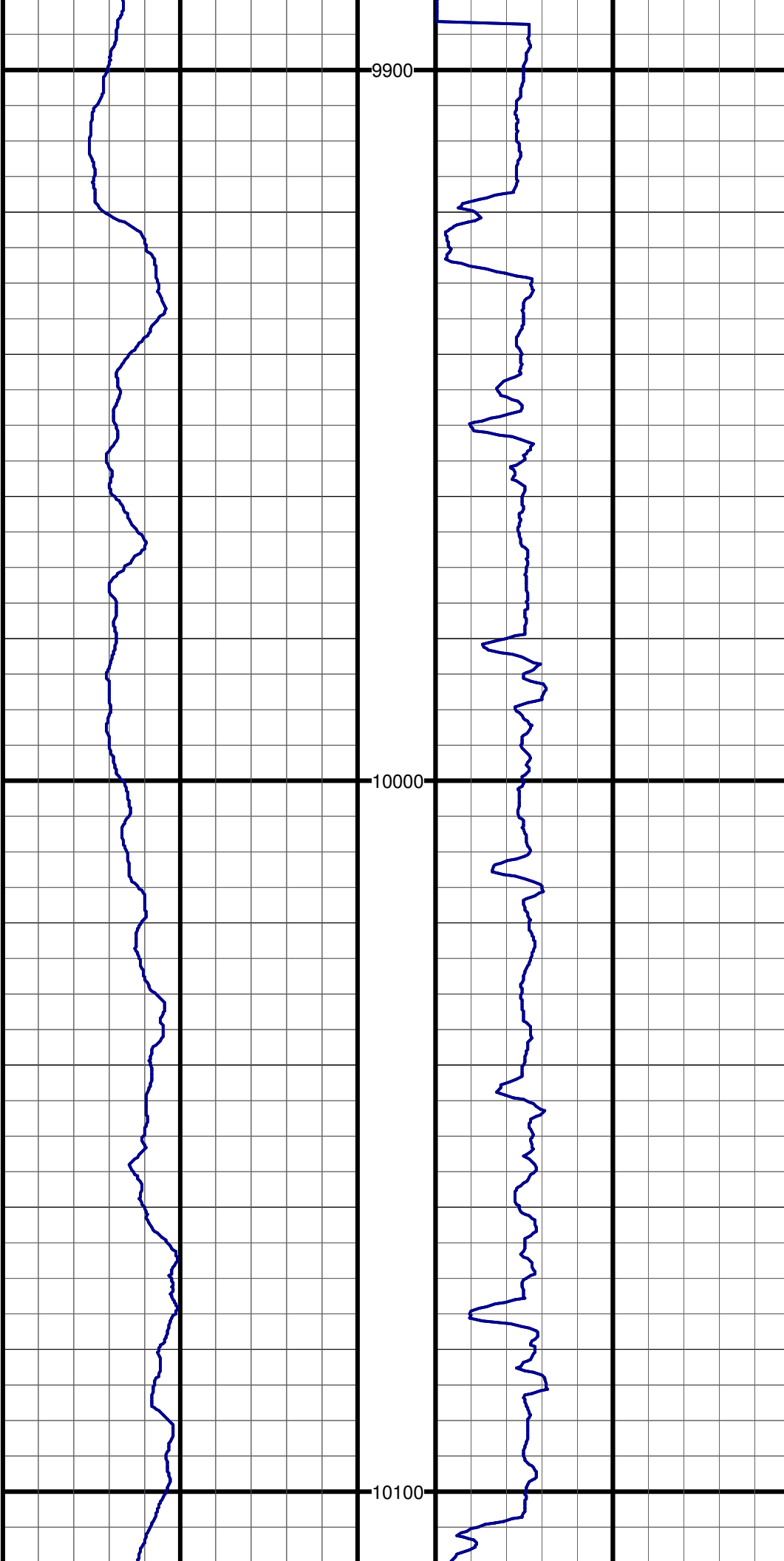


#87 MD:9680.0 TVD:7014.2 I:91.5 A:180.5 VS:2595.8

#88 MD:9744.0 TVD:7013.4 I:89.9 A:179.2 VS:2659.8

#89 MD:9807.0 TVD:7013.2 I:90.5 A:180.2 VS:2722.8

#90 MD:9871.0 TVD:7013.7 I:88.6 A:180.2 VS:2786.8

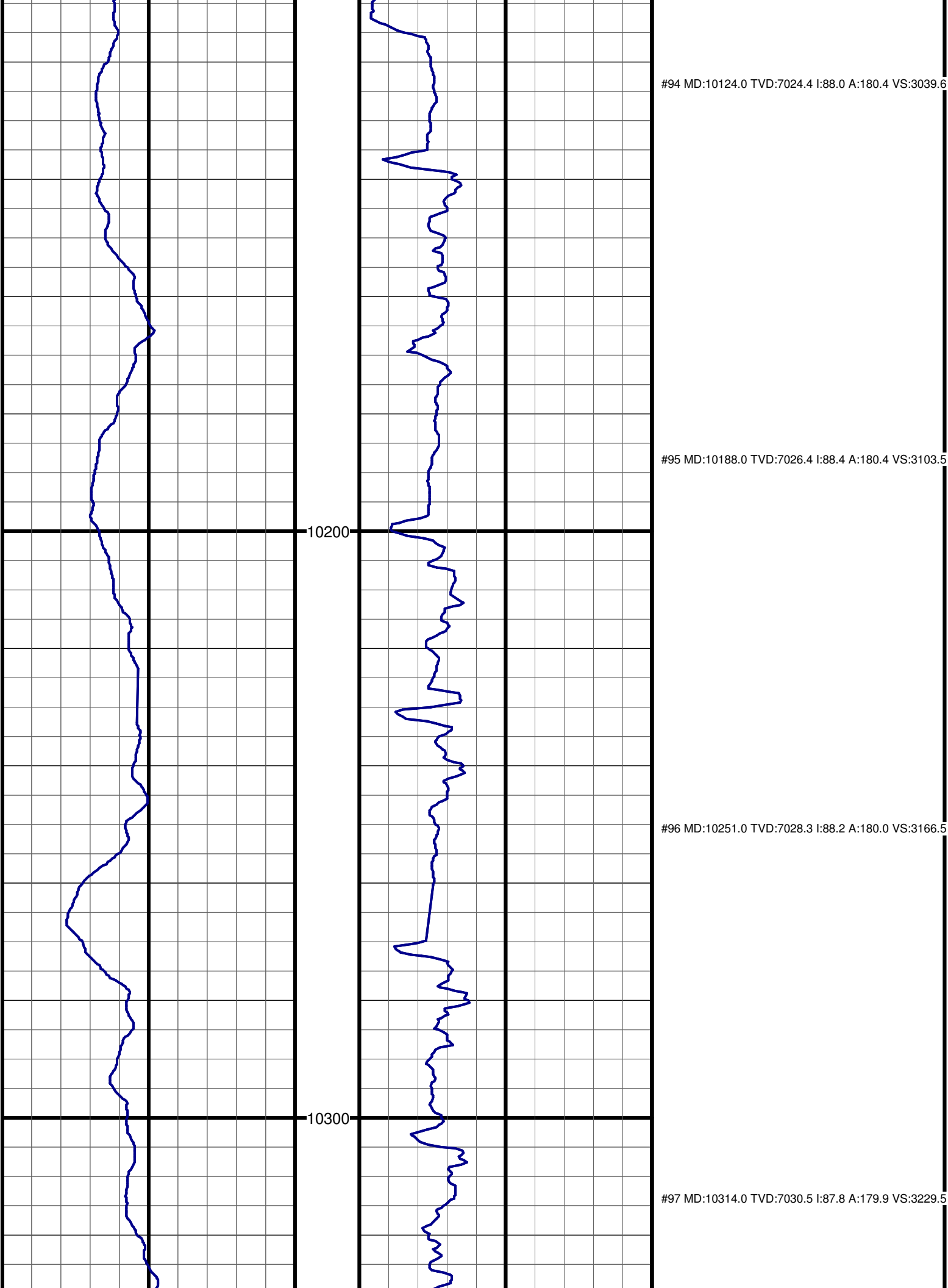


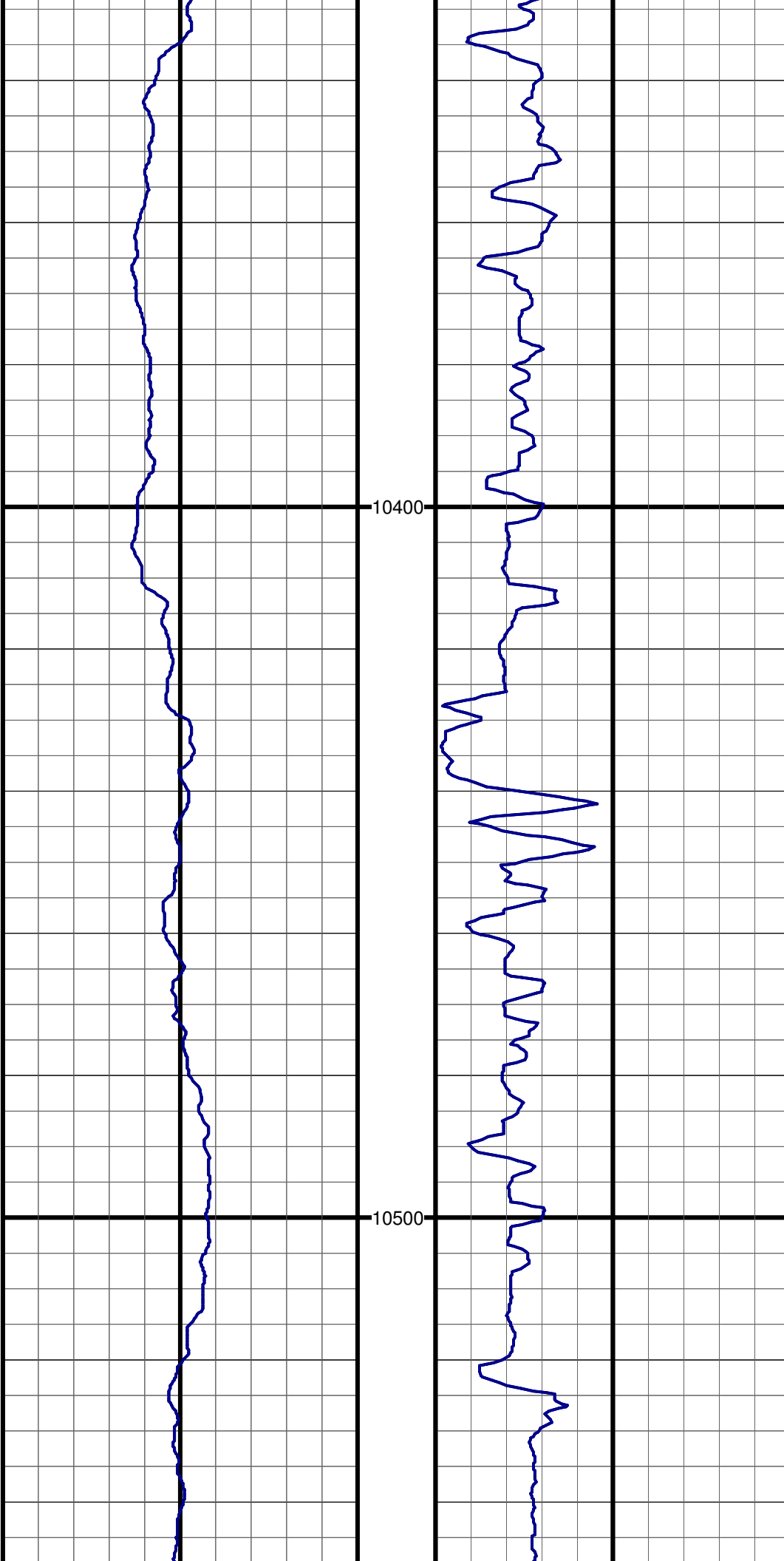
#91 MD:9934.0 TVD:7015.9 I:87.4 A:180.8 VS:2849.8

#92 MD:9997.0 TVD:7018.8 I:87.3 A:180.3 VS:2912.7

#93 MD:10061.0 TVD:7021.8 I:87.3 A:180.2 VS:2976.6



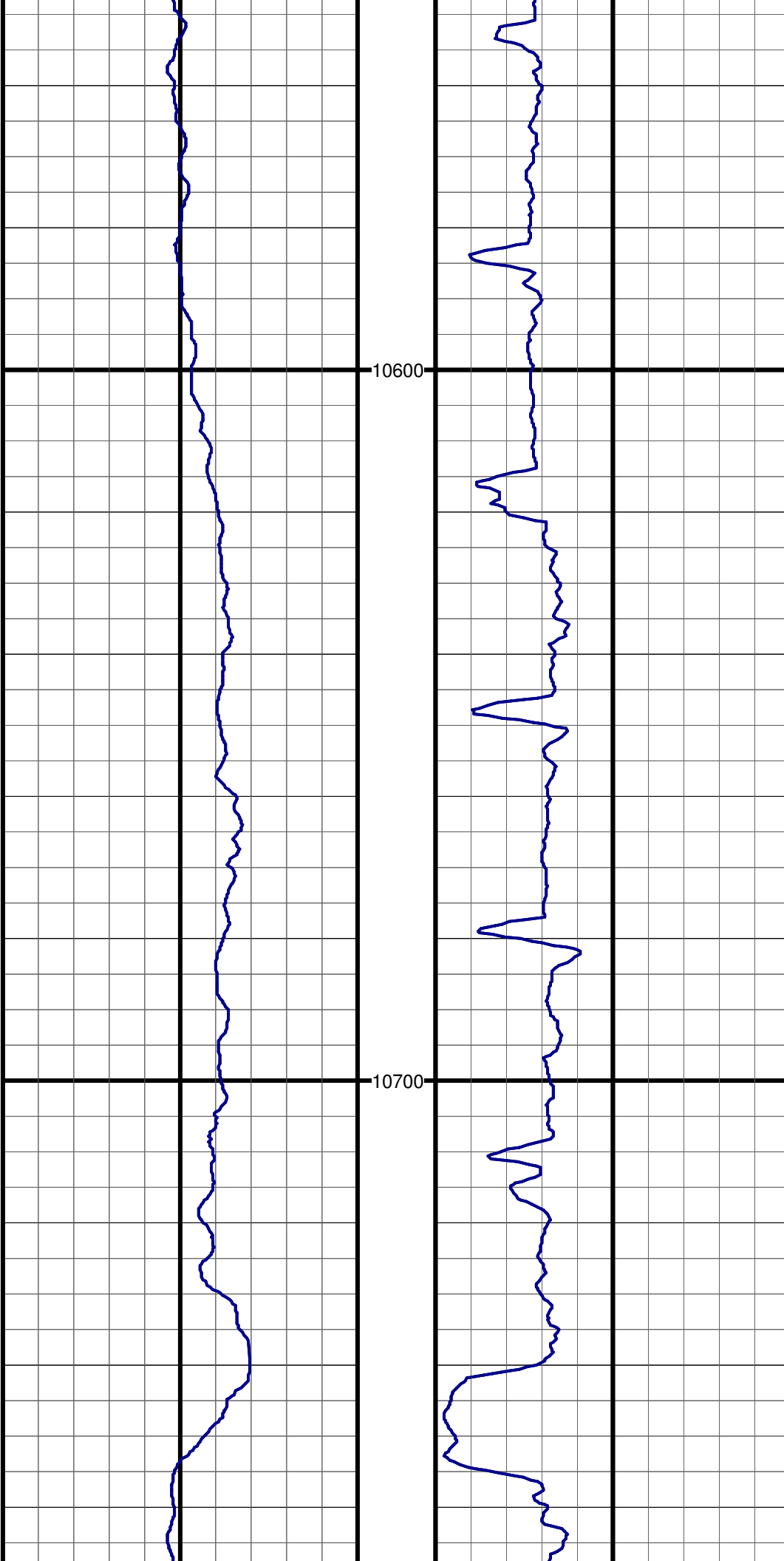




#98 MD:10378.0 TVD:7033.2 I:87.3 A:180.0 VS:3293.4

#99 MD:10441.0 TVD:7035.8 I:88.0 A:180.5 VS:3356.4

#100 MD:10505.0 TVD:7037.8 I:88.4 A:180.0 VS:3420.3

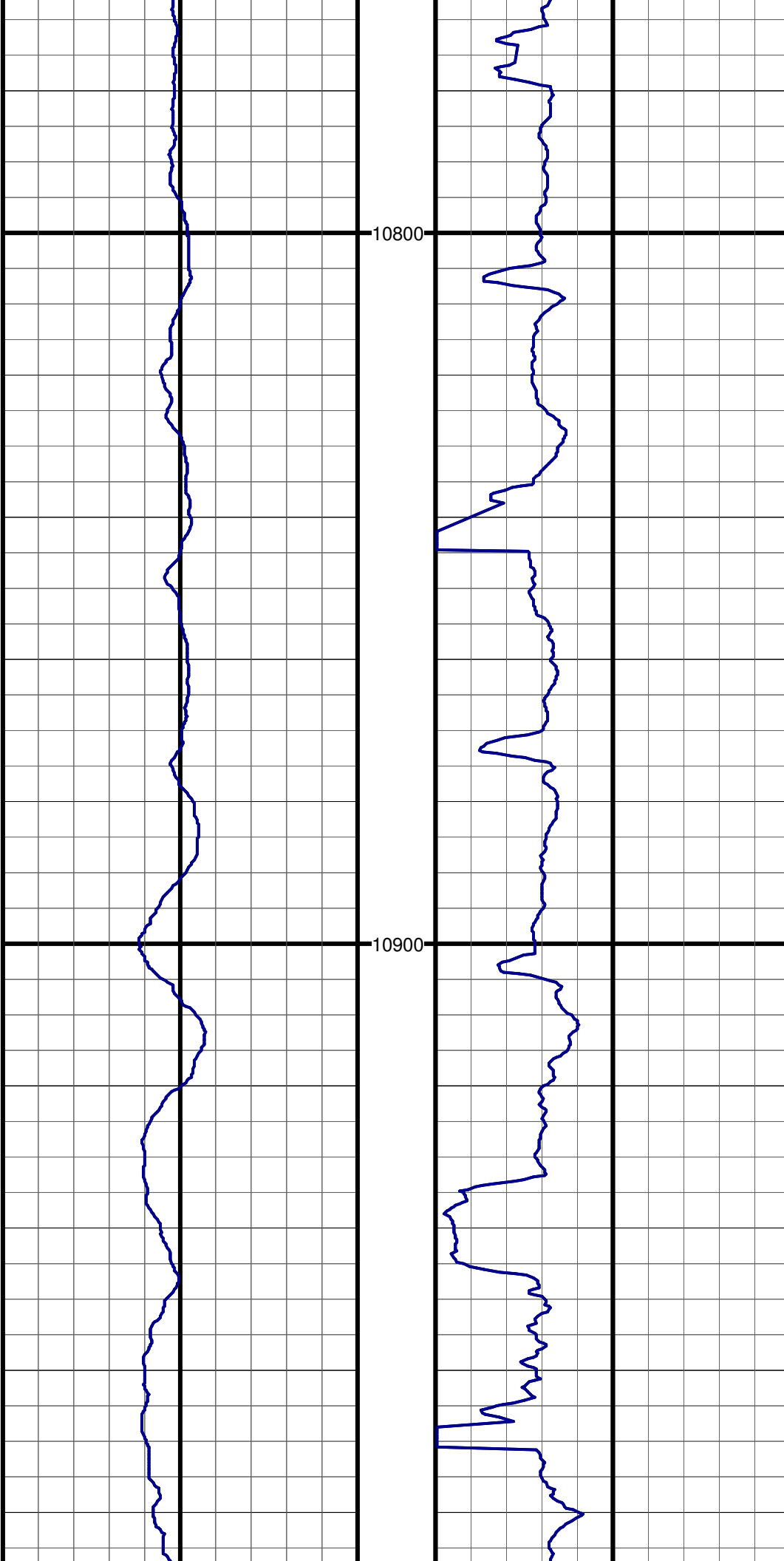


#101 MD:10568.0 TVD:7039.5 I:88.5 A:180.0 VS:3483.3

#102 MD:10631.0 TVD:7041.1 I:88.6 A:180.2 VS:3546.3

#103 MD:10695.0 TVD:7042.8 I:88.3 A:180.1 VS:3610.3

#104 MD:10758.0 TVD:7044.3 I:89.1 A:180.9 VS:3673.2



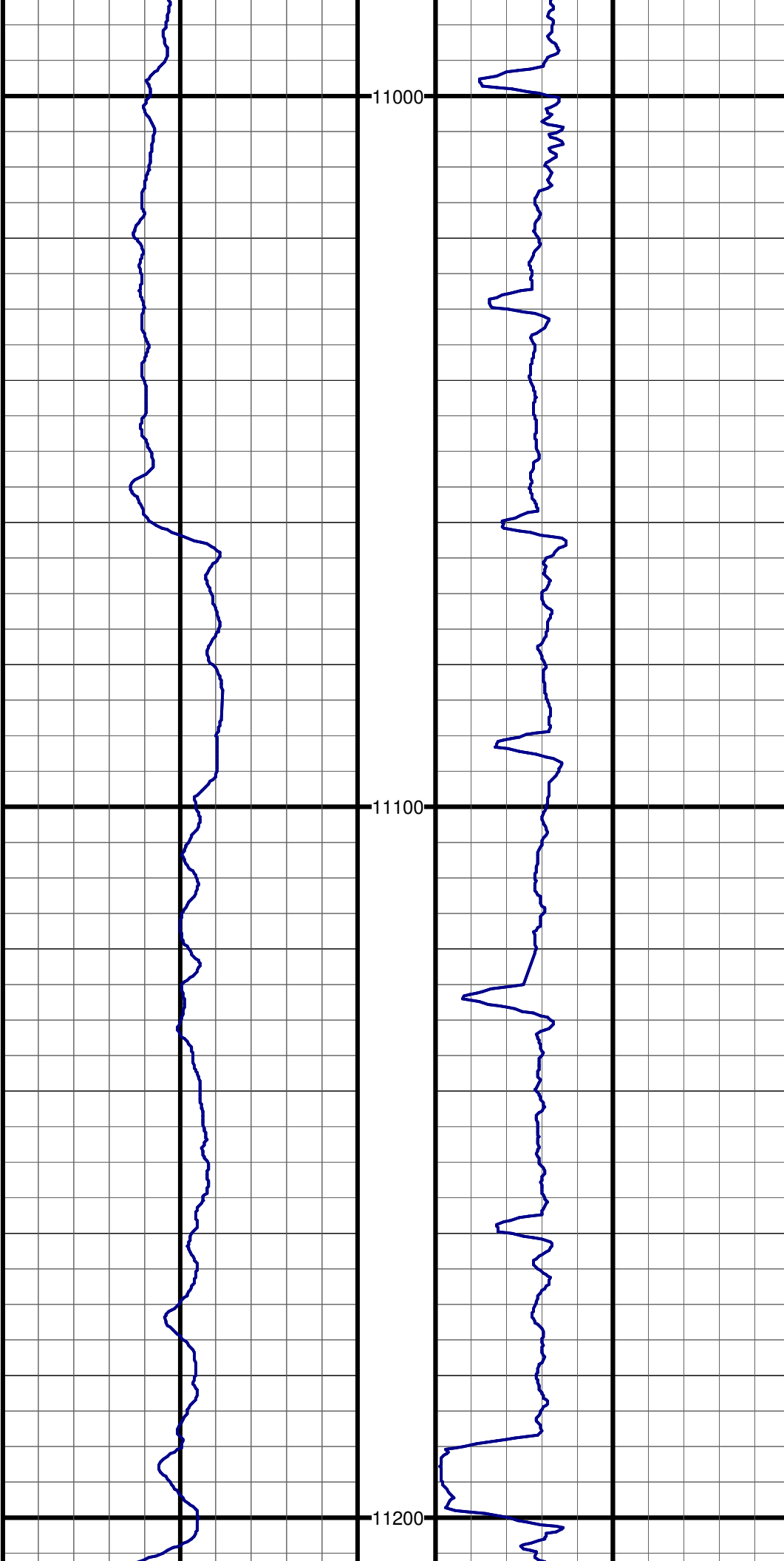
10800

#105 MD:10822.0 TVD:7045.2 I:89.2 A:180.8 VS:3737.2

#106 MD:10885.0 TVD:7046.2 I:89.0 A:180.8 VS:3800.2

10900

#107 MD:10948.0 TVD:7046.9 I:89.7 A:180.6 VS:3863.2

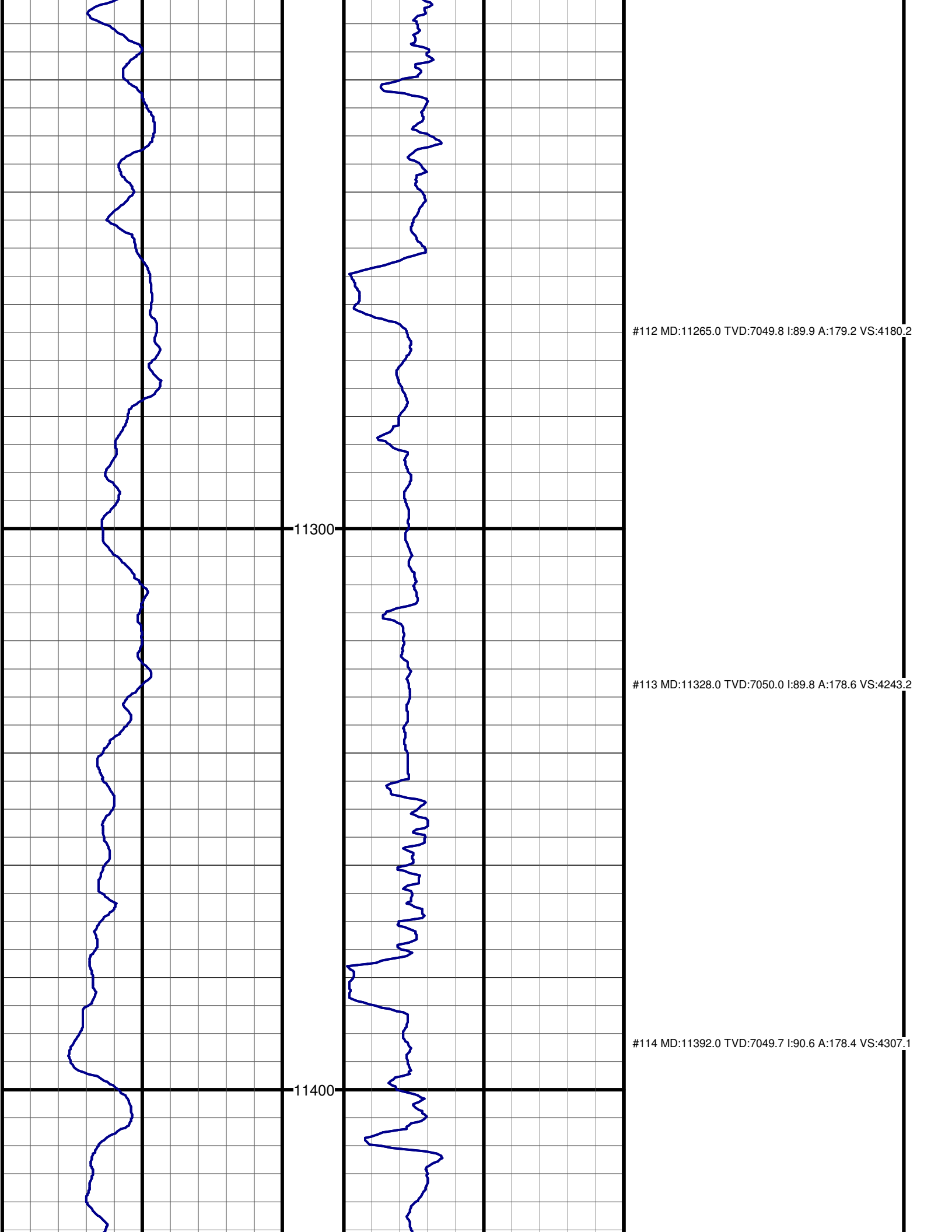


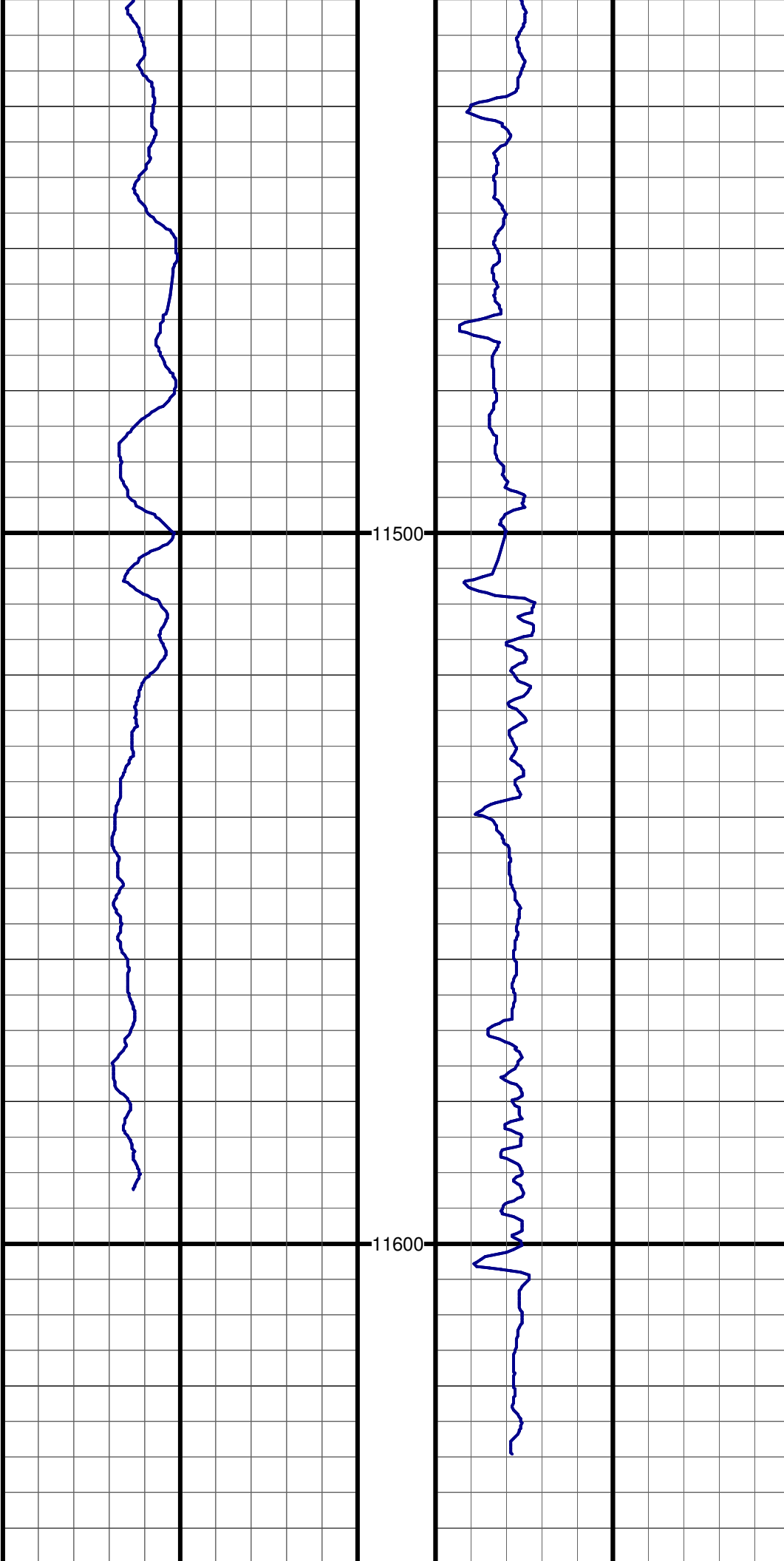
#108 MD:11012.0 TVD:7047.2 I:89.8 A:180.2 VS:3927.2

#109 MD:11075.0 TVD:7047.5 I:89.7 A:180.2 VS:3990.2

#110 MD:11138.0 TVD:7048.2 I:88.9 A:180.4 VS:4053.2

#111 MD:11202.0 TVD:7049.3 I:89.2 A:179.7 VS:4117.2





#115 MD:11455.0 TVD:7049.1 I:90.5 A:177.9 VS:4370.1

#116 MD:11519.0 TVD:7048.7 I:90.3 A:177.7 VS:4434.1

#117 MD:11580.0 TVD:7048.4 I:90.2 A:177.2 VS:4495.0

