



NIX P28-69HN FINAL 5" MD LOG
(Scale: 5":.100' (10'))

(Scale: 5"=100' (10'))

Company: NOBLE ENERGY INC.

State: COLORADO

Well: NIX P28-69HN

County: WELD

Field: WATTENBERG

Country: US

Well ID: 05-123-34658

Job Number: RM-12709

Location: LAT: 40° 12' 9.720" N; LONG: 104° 53' 34.836" W

Elev KB: 4,818'

Operator 1: BOYD WOLFF

Elev DF: N/A

Operator 2: SCOTT SIMS

Elev GL: 4,794'

Comment 1: FINAL 5" MD GAMMA LOG

Comment 2: TIE INTO SURFACE CASING AT 665'

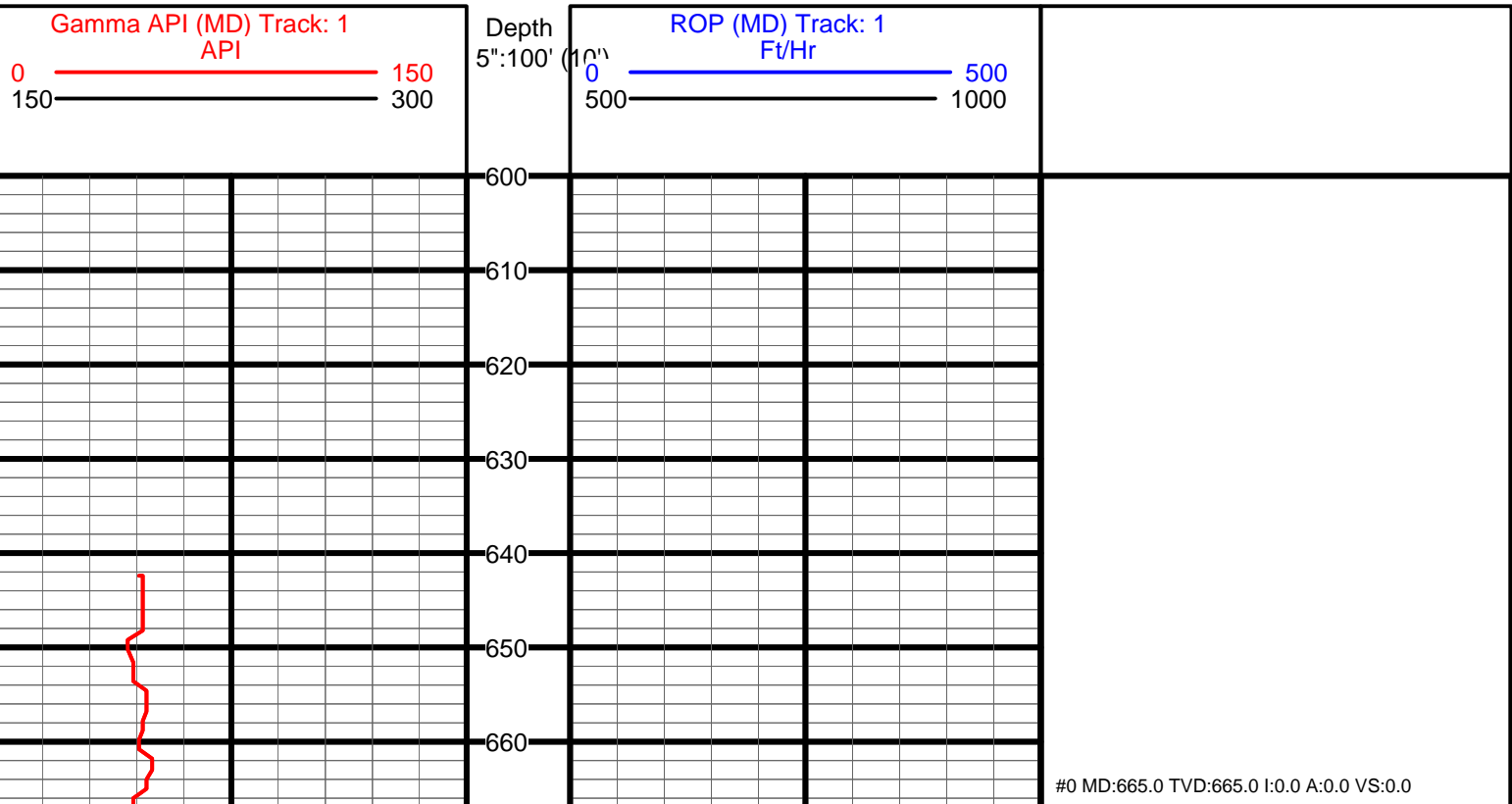
Comment 3:

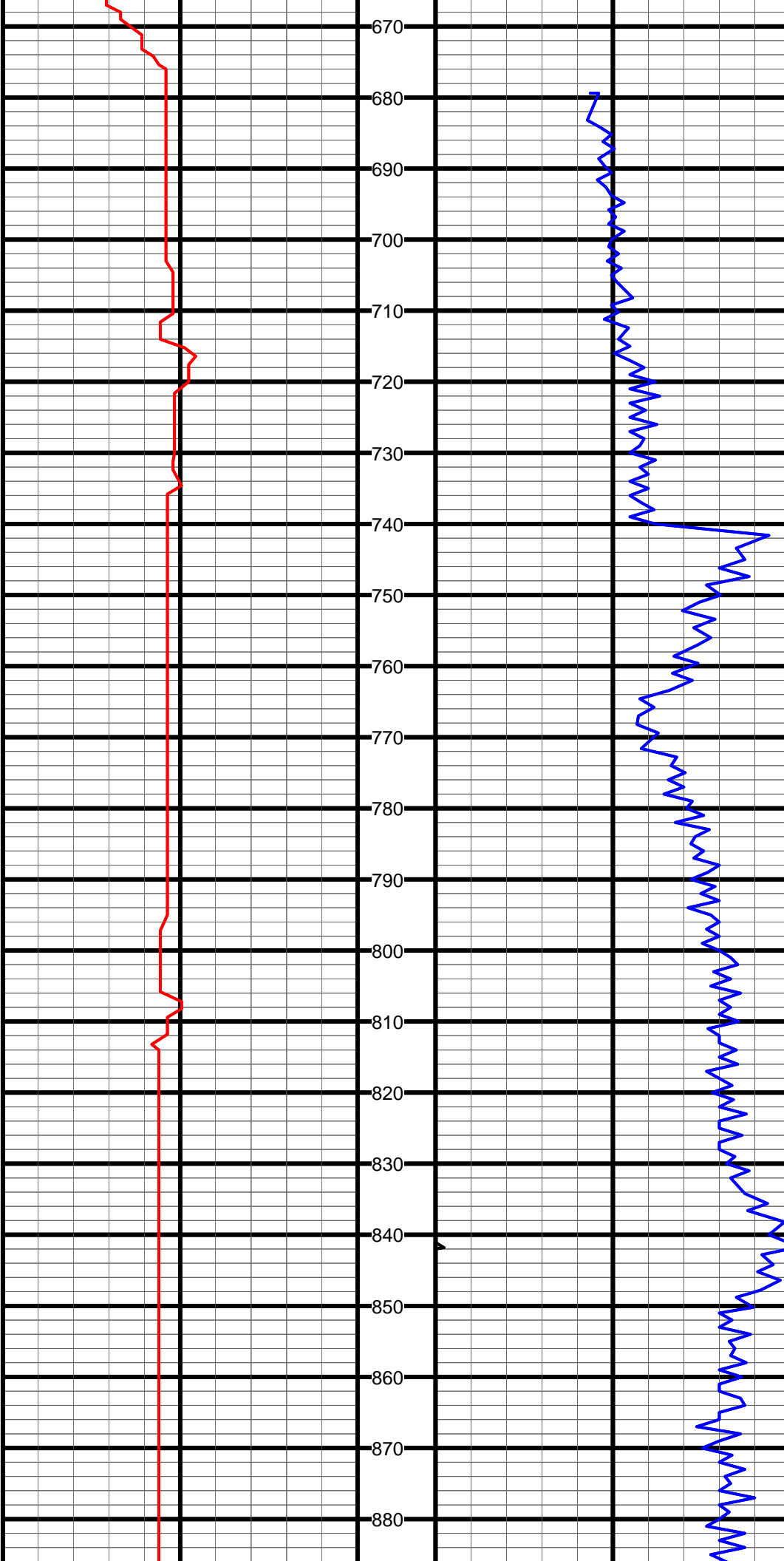
Comment 4:

Comment 5:

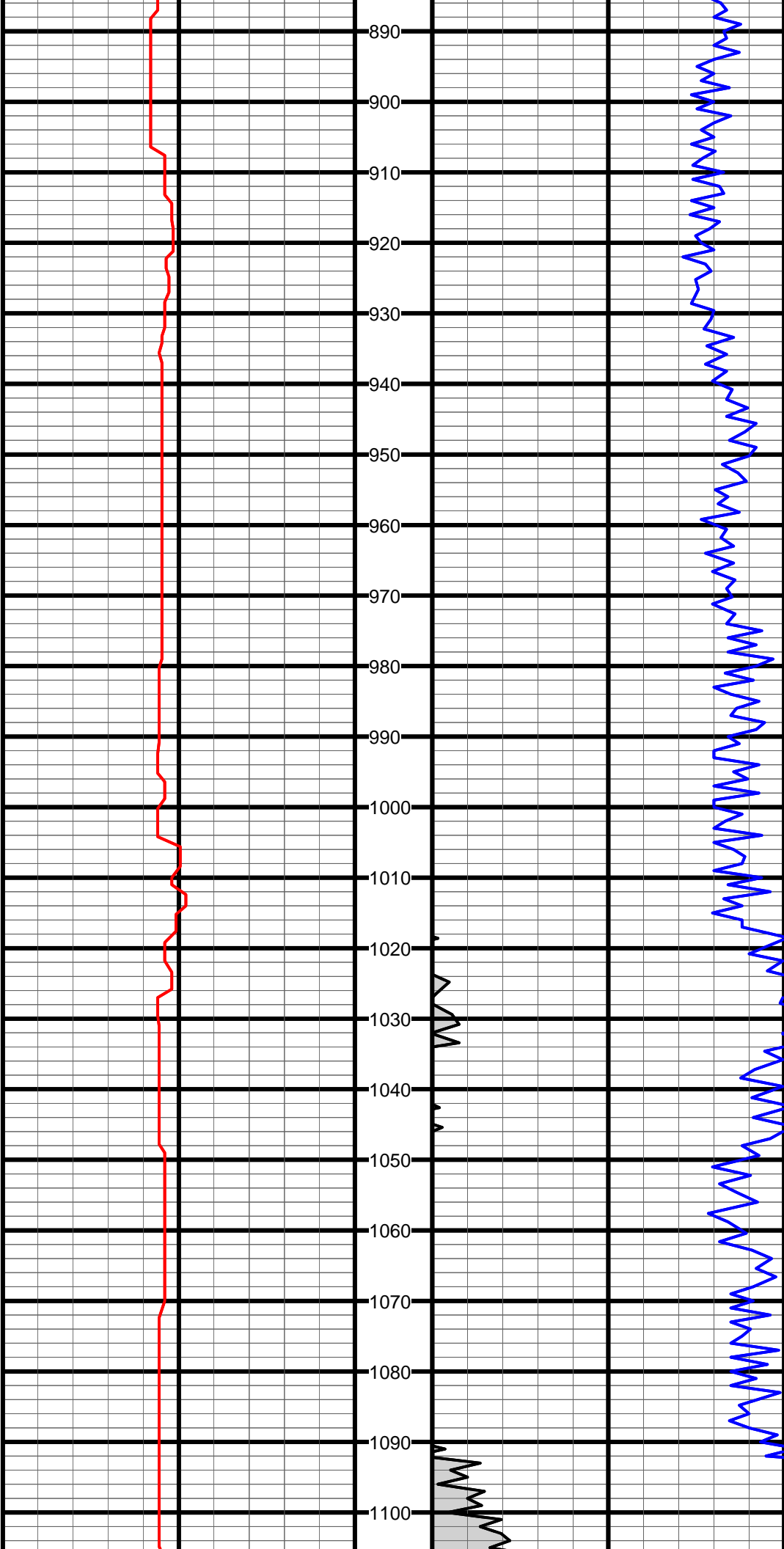
Hole Data			Casing Record		
Size	From	To	Size	From	To
13 3/4"	0	675'	9 5/8"	0	665'
8 3/4"	675'	7,433'	7"	665'	7,423'
6 1/8"	7,433'	10,963'			

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	5607 XXT	5607 XXT	5607 XXT		
Cal Factor	3.33	3.33	1.93		
Gamma Offset	37'	45'	49'		
Start Depth	675'	6,277'	7,433'		
Start Date	9/26/2012	9/27/2012	9/30/2012		
Start Time	04:00	20:30	23:30		
End Depth	6,277'	7,433'	10,953'		
End Date	9/27/2012	9/29/2012	10/2/2012		
End Time	19:00	15:30	11:30		

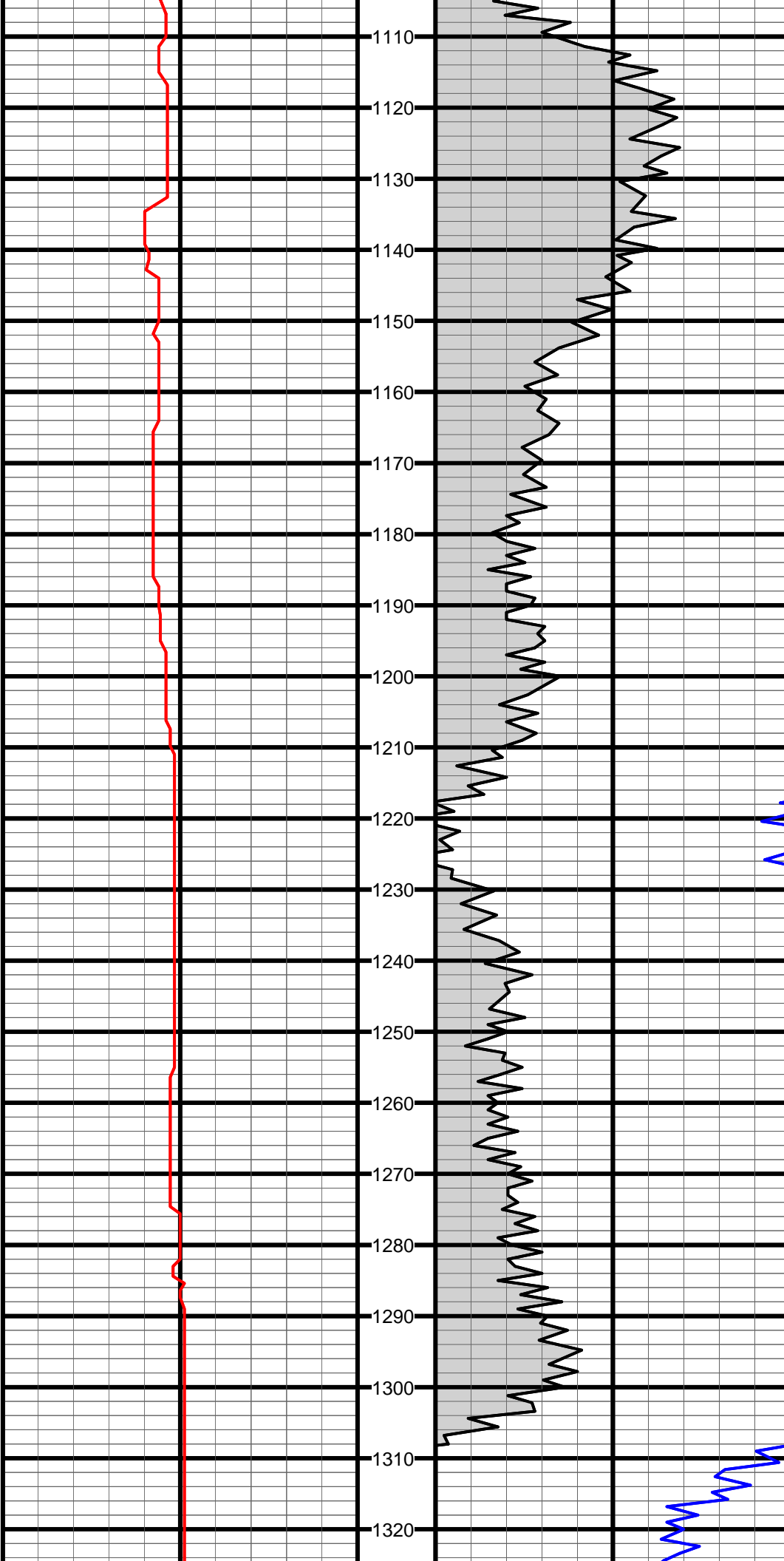




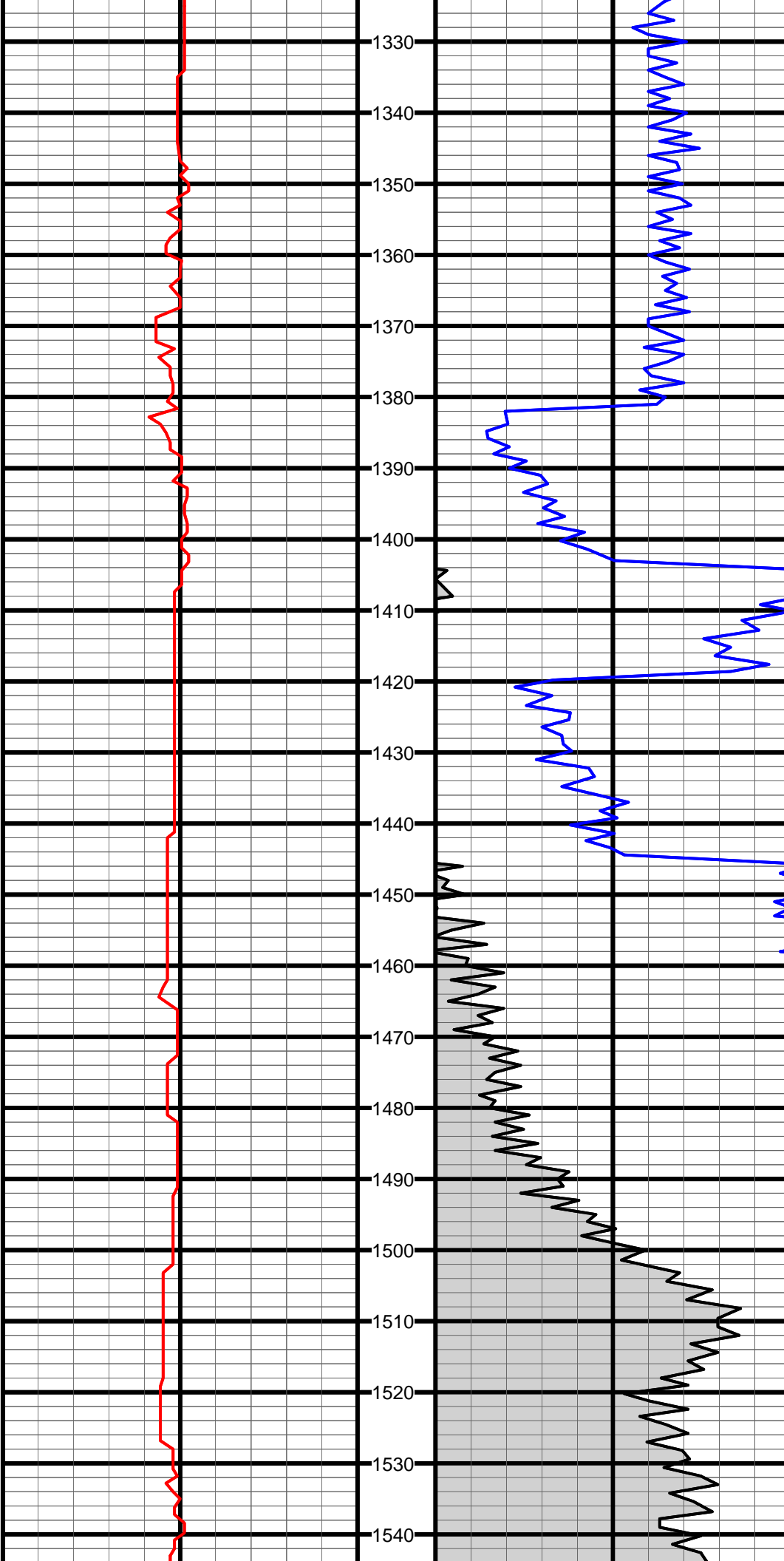
#1 MD:697.0 TVD:697.0 I:0.3 A:46.2 VS:0.1



#2 MD:973.0 TVD:973.0 I:0.2 A:125.8 VS:1.0



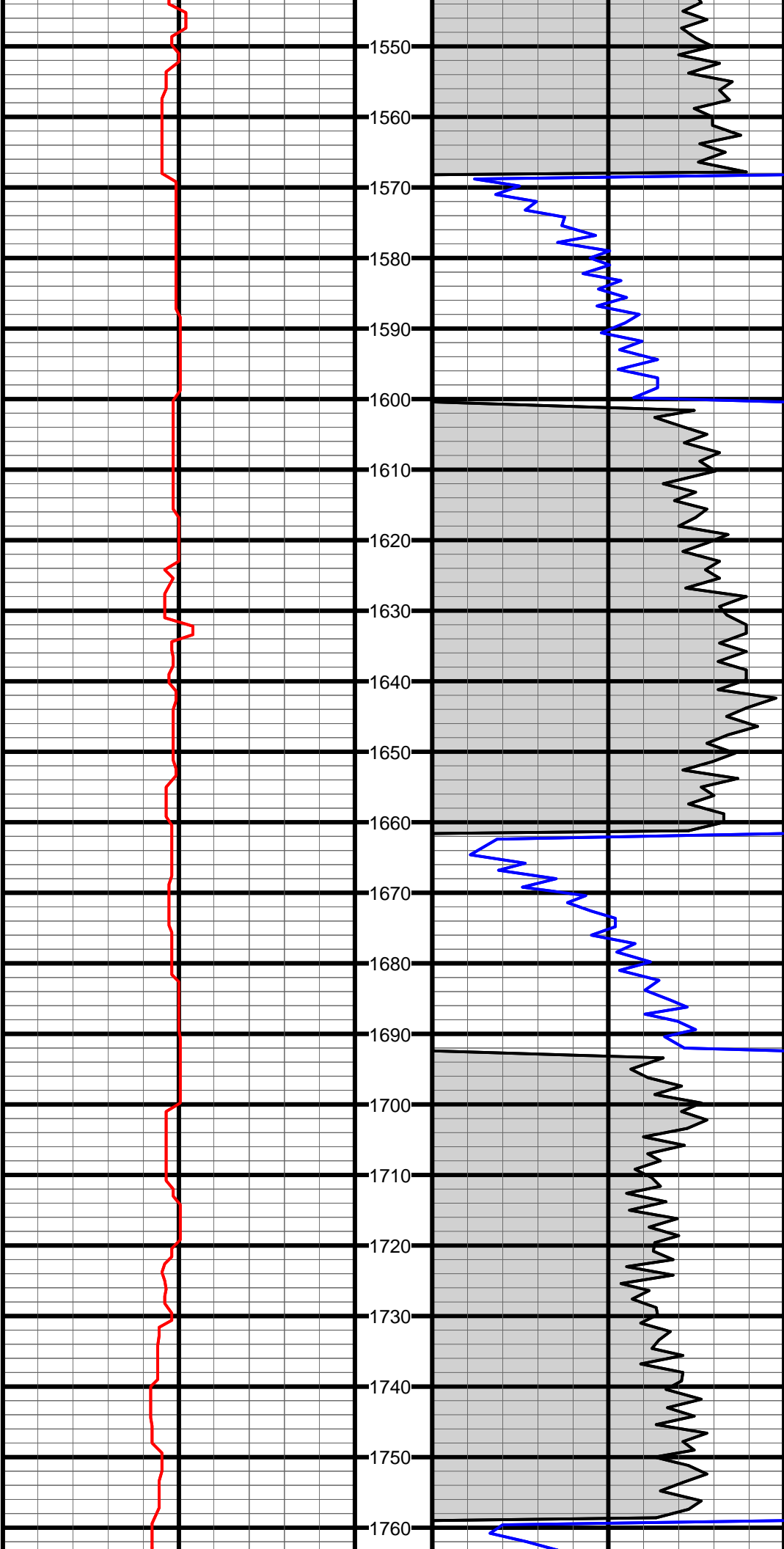
#3 MD:1249.0 TVD:1249.0 I:0.3 A:252.2 VS:0.7



#4 MD:1339.0 TVD:1339.0 I:0.2 A:335.1 VS:0.4

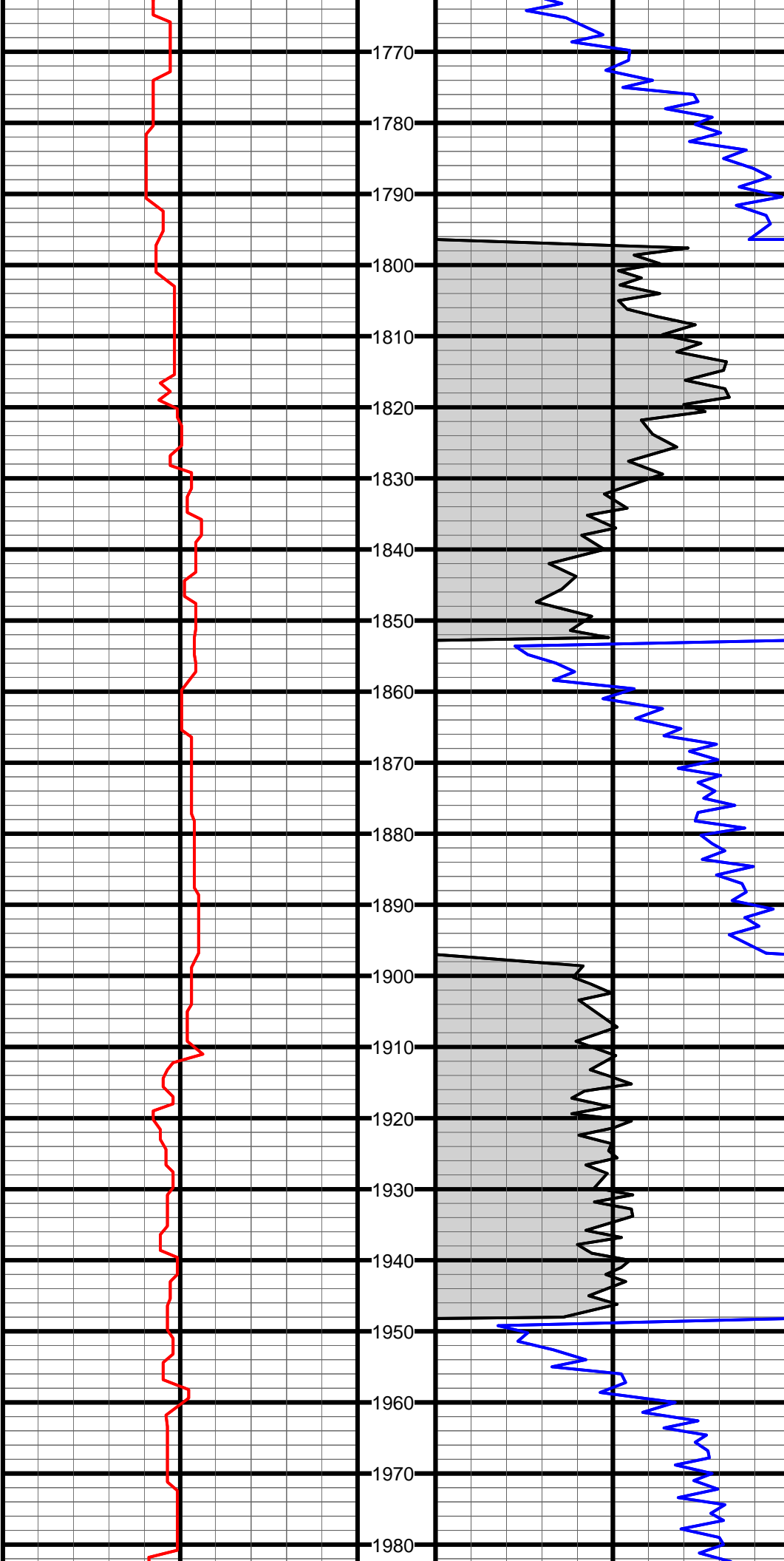
#5 MD:1431.0 TVD:1431.0 I:1.9 A:347.8 VS:0.1

#6 MD:1526.0 TVD:1525.9 I:3.3 A:343.6 VS:-0.6



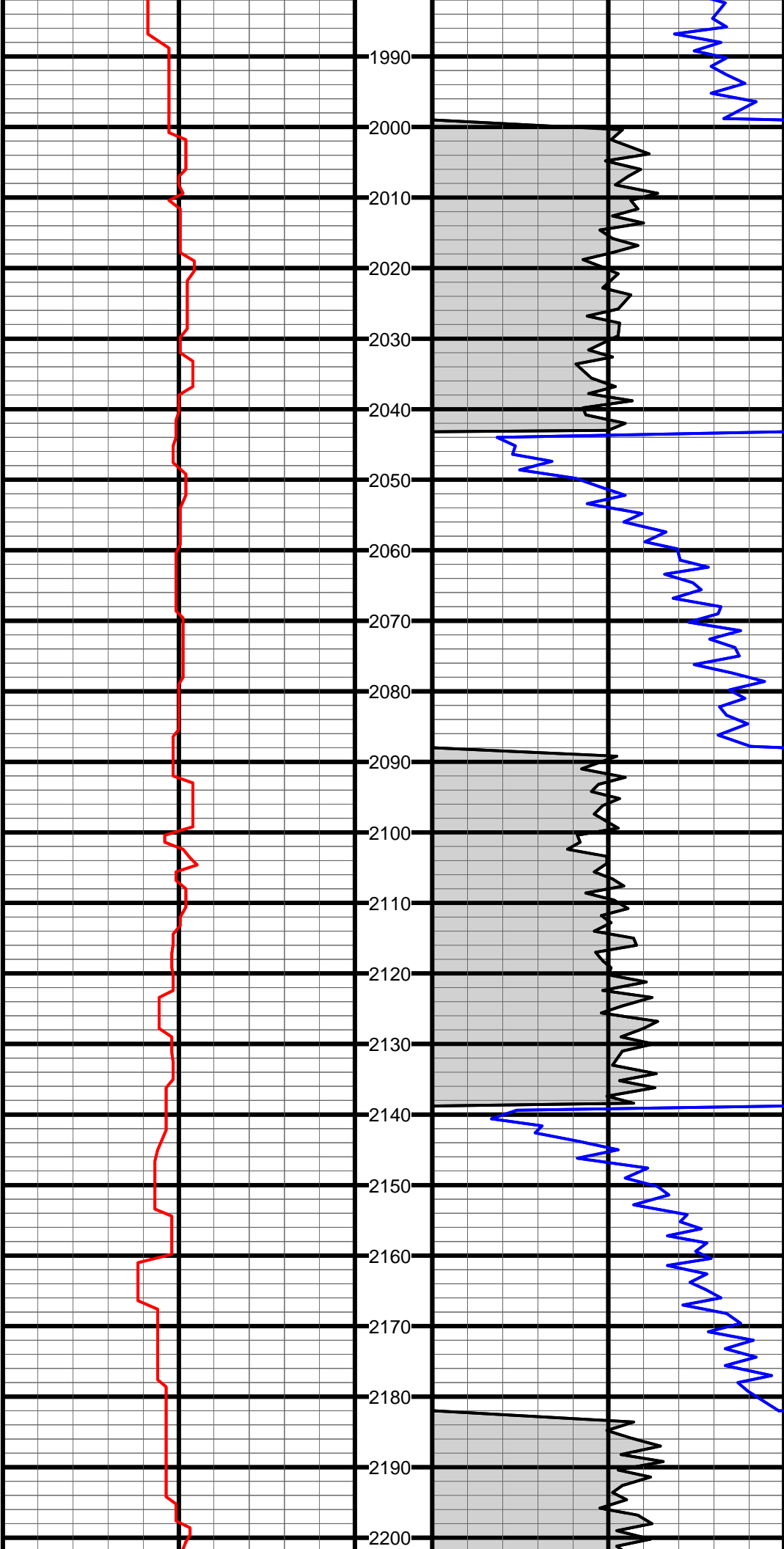
#7 MD:1621.0 TVD:1620.6 I:5.6 A:338.3 VS:-2.4

#8 MD:1716.0 TVD:1715.0 I:6.7 A:343.9 VS:-4.8



#9 MD:1811.0 TVD:1809.3 I:7.9 A:335.5 VS:-8.0

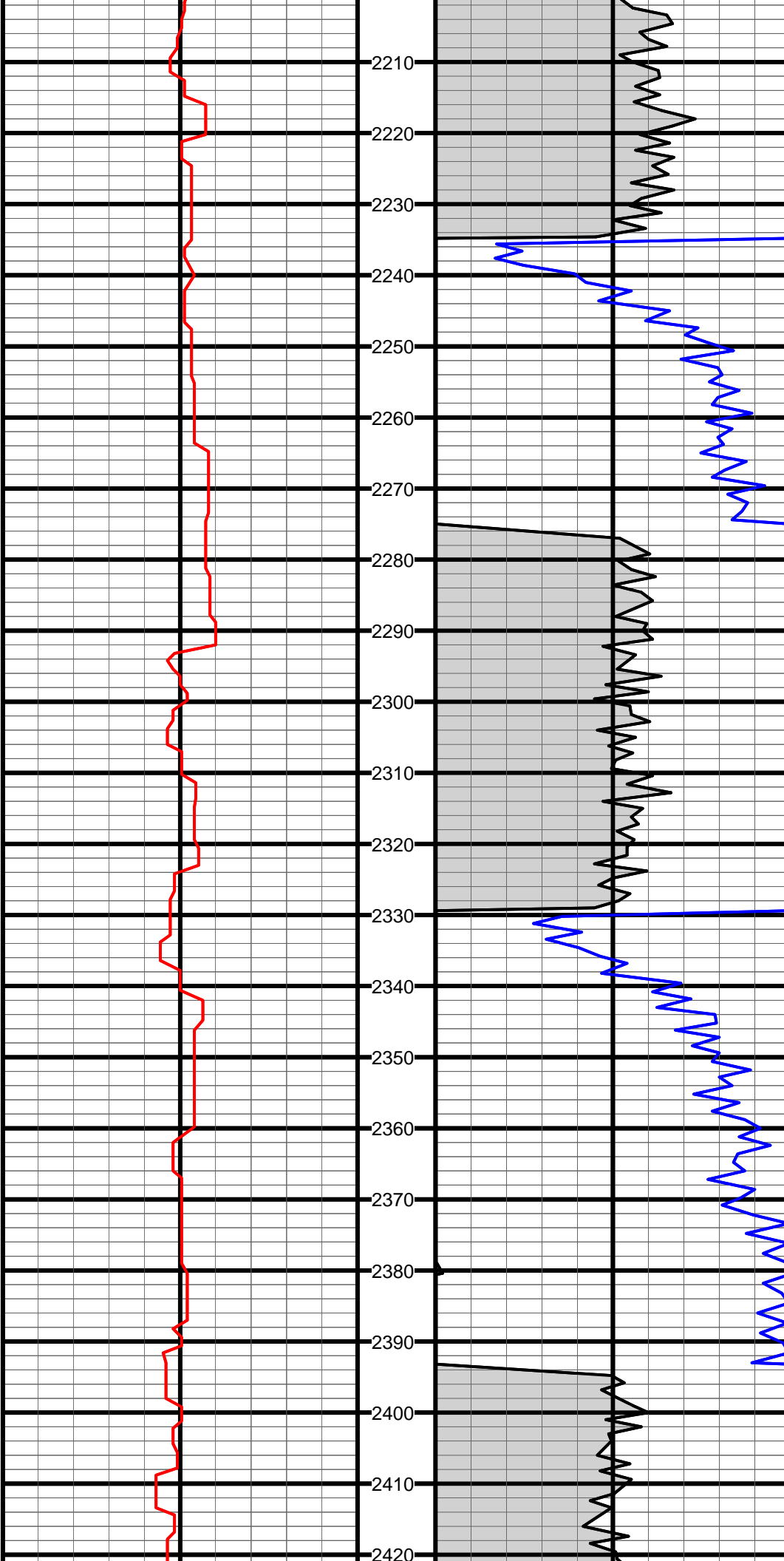
#10 MD:1906.0 TVD:1903.3 I:8.9 A:342.9 VS:-11.7



#11 MD:2001.0 TVD:1996.8 I:10.9 A:350.3 VS:-13.9

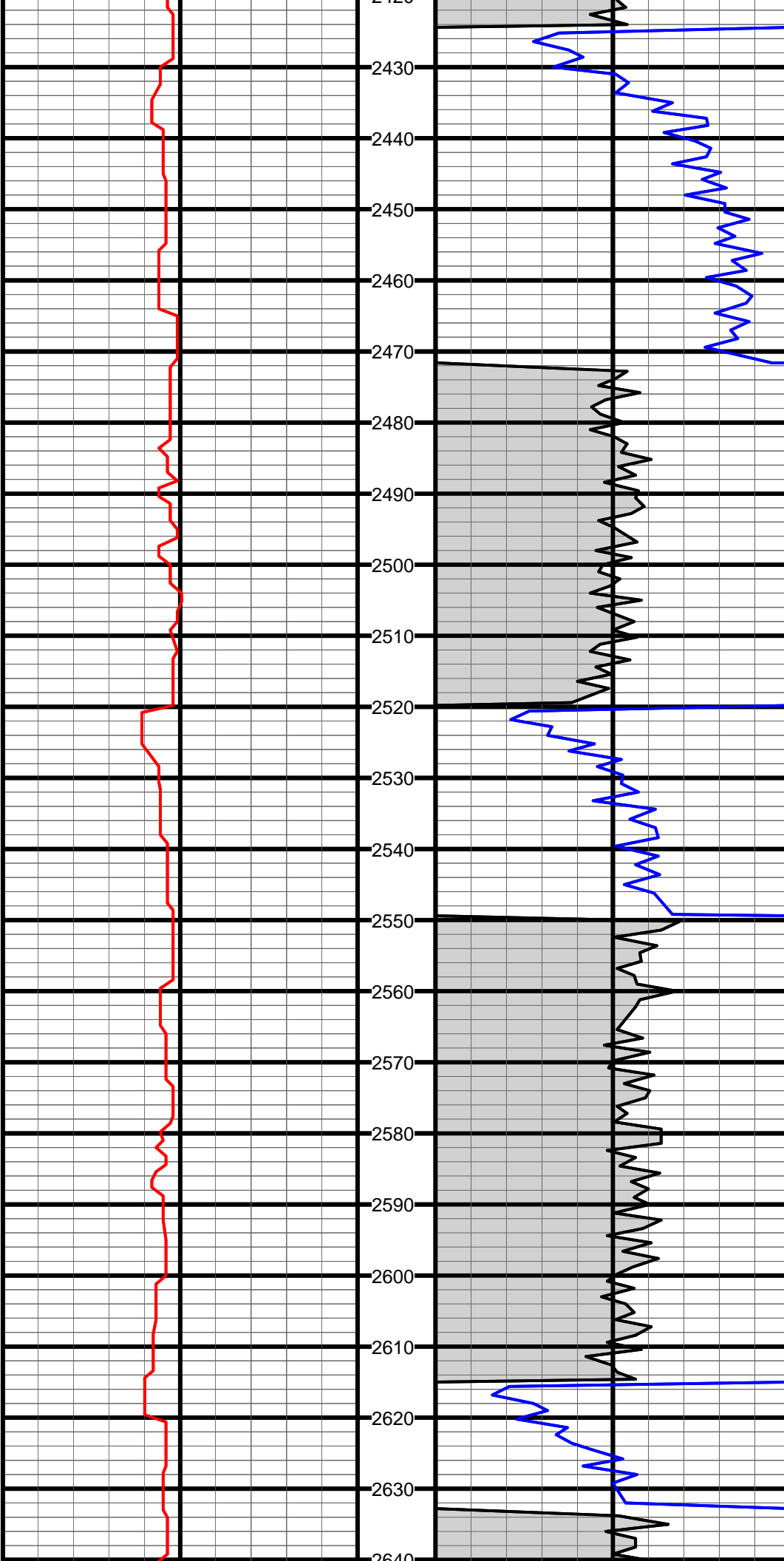
#12 MD:2096.0 TVD:2089.9 I:12.3 A:347.3 VS:-15.9

#13 MD:2191.0 TVD:2182.6 I:13.0 A:348.0 VS:-18.5



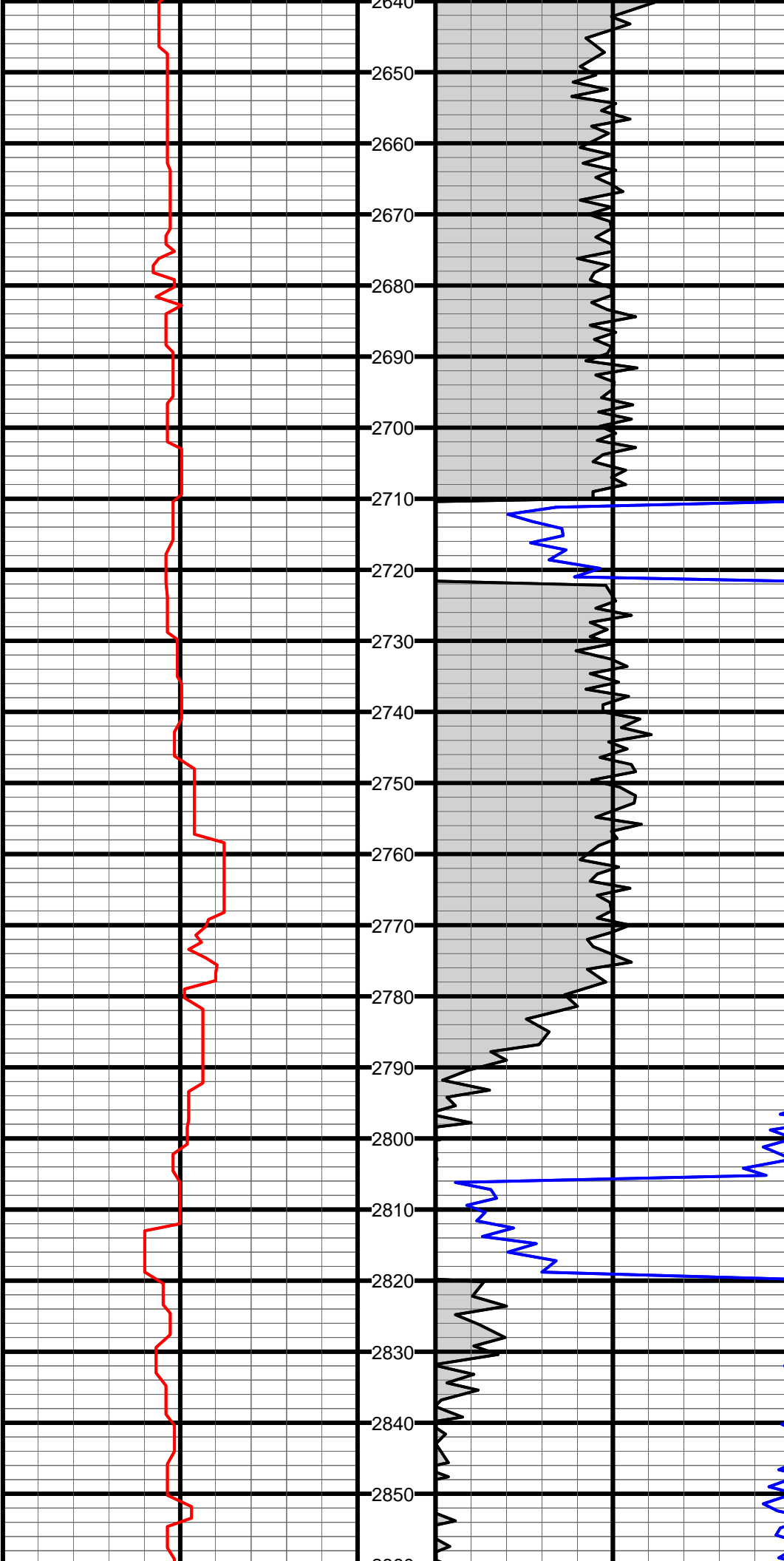
#14 MD:2286.0 TVD:2275.1 I:13.4 A:345.5 VS:-21.5

#15 MD:2381.0 TVD:2367.5 I:13.1 A:346.0 VS:-24.9



#16 MD:2476.0 TVD:2459.6 I:15.6 A:349.4 VS:-27.7

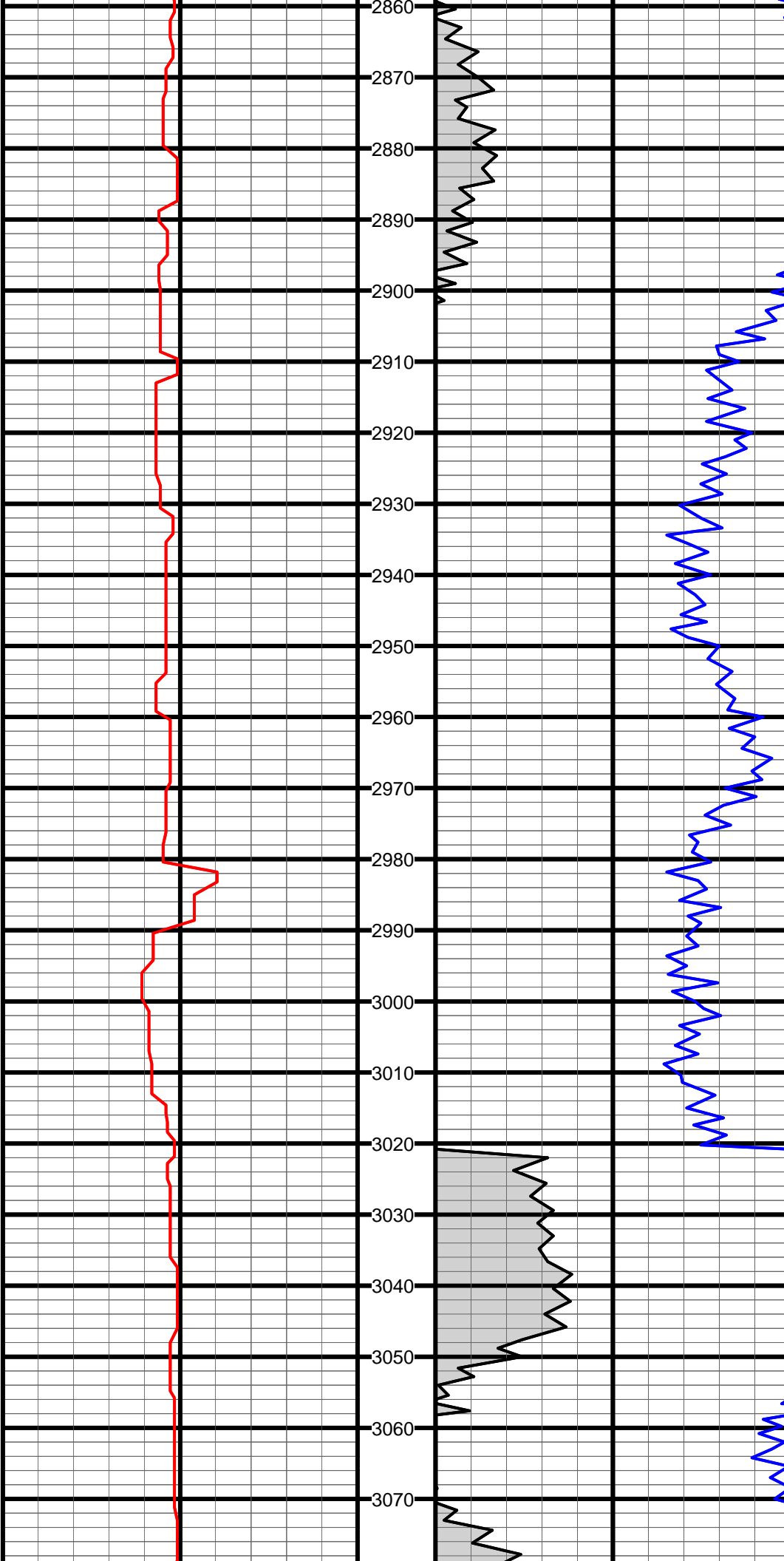
#17 MD:2571.0 TVD:2550.9 I:16.5 A:345.3 VS:-31.2



#18 MD:2666.0 TVD:2642.0 I:16.4 A:347.1 VS:-35.2

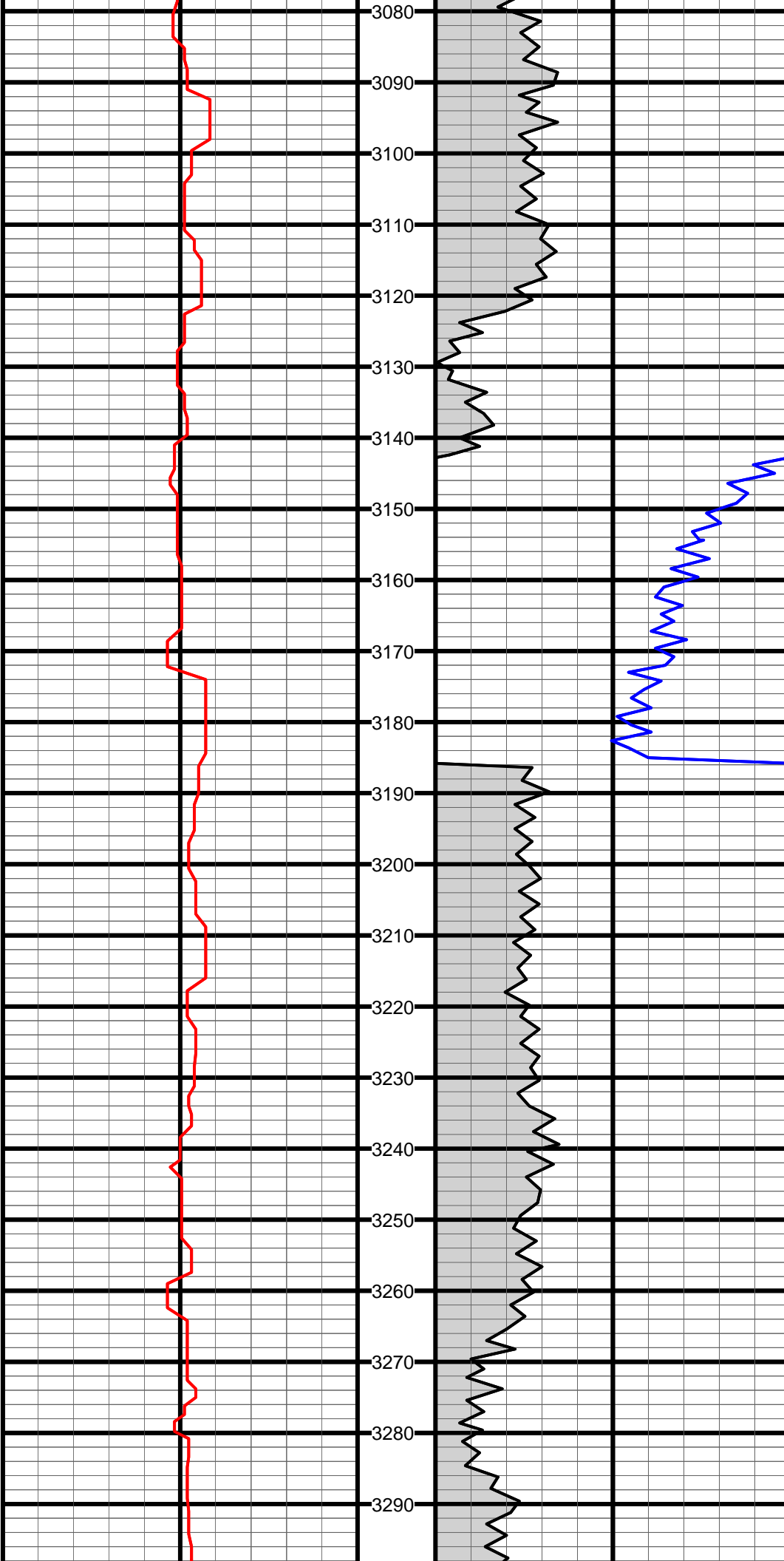
#19 MD:2761.0 TVD:2733.5 I:14.7 A:345.7 VS:-38.9

#20 MD:2856.0 TVD:2825.7 I:13.3 A:344.5 VS:-42.7



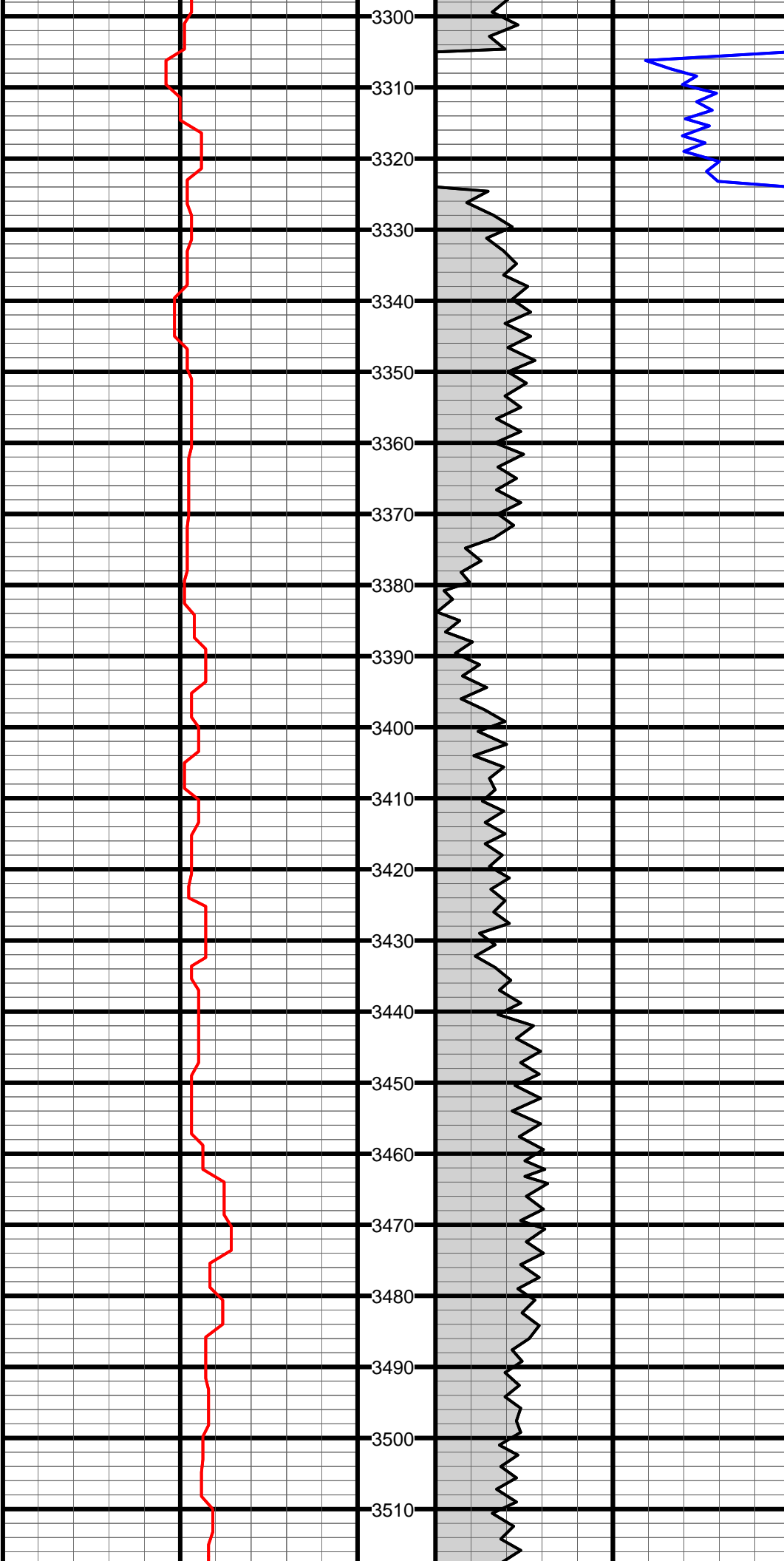
#21 MD:2951.0 TVD:2918.5 I:11.5 A:344.8 VS:-46.3

#22 MD:3046.0 TVD:3011.9 I:9.1 A:345.5 VS:-49.2



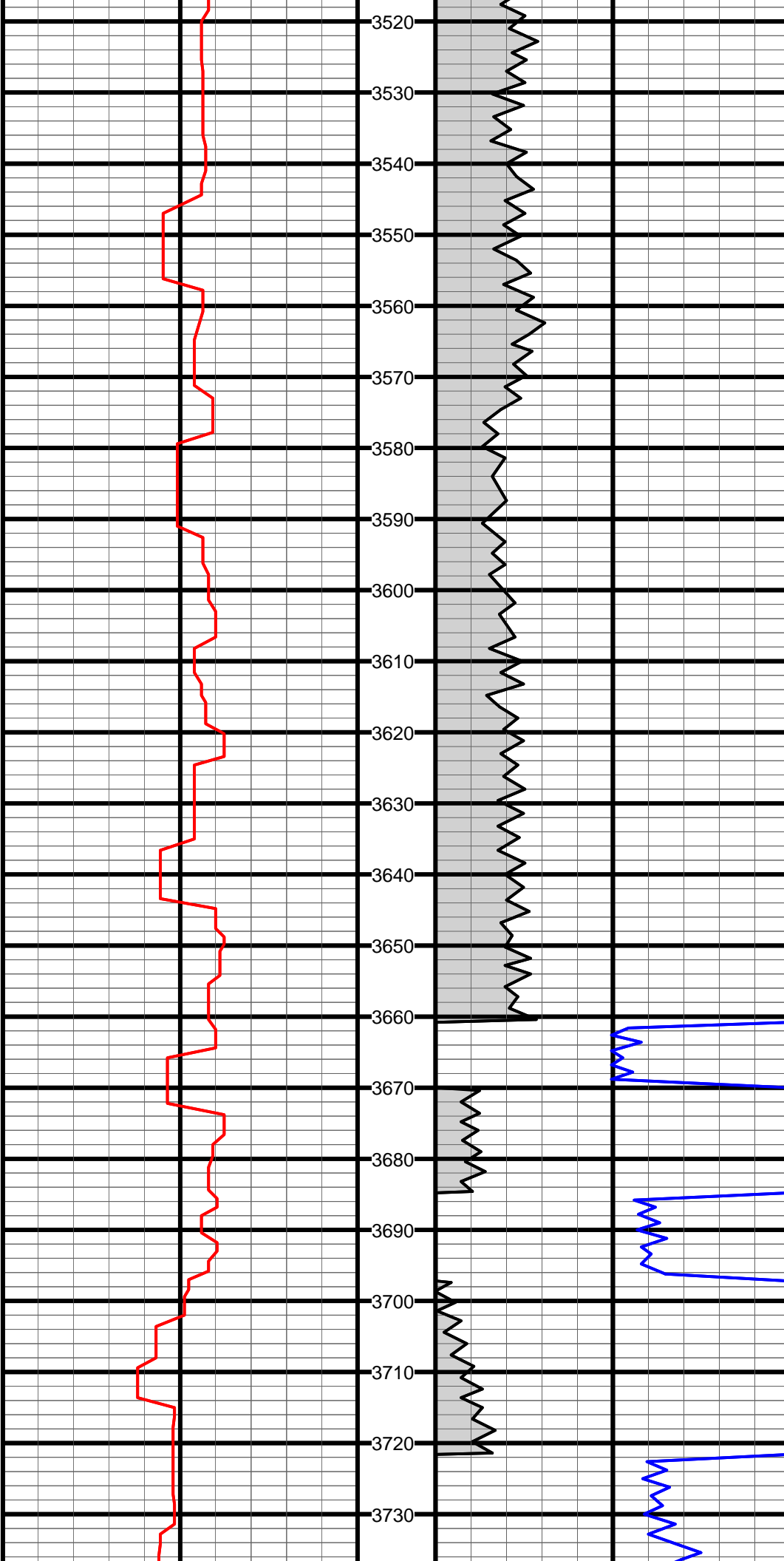
#23 MD:3141.0 TVD:3106.0 I:7.2 A:345.7 VS:-51.3

#24 MD:3236.0 TVD:3200.4 I:5.6 A:347.3 VS:-52.8



#25 MD:3331.0 TVD:3295.0 I:4.0 A:343.9 VS:-54.1

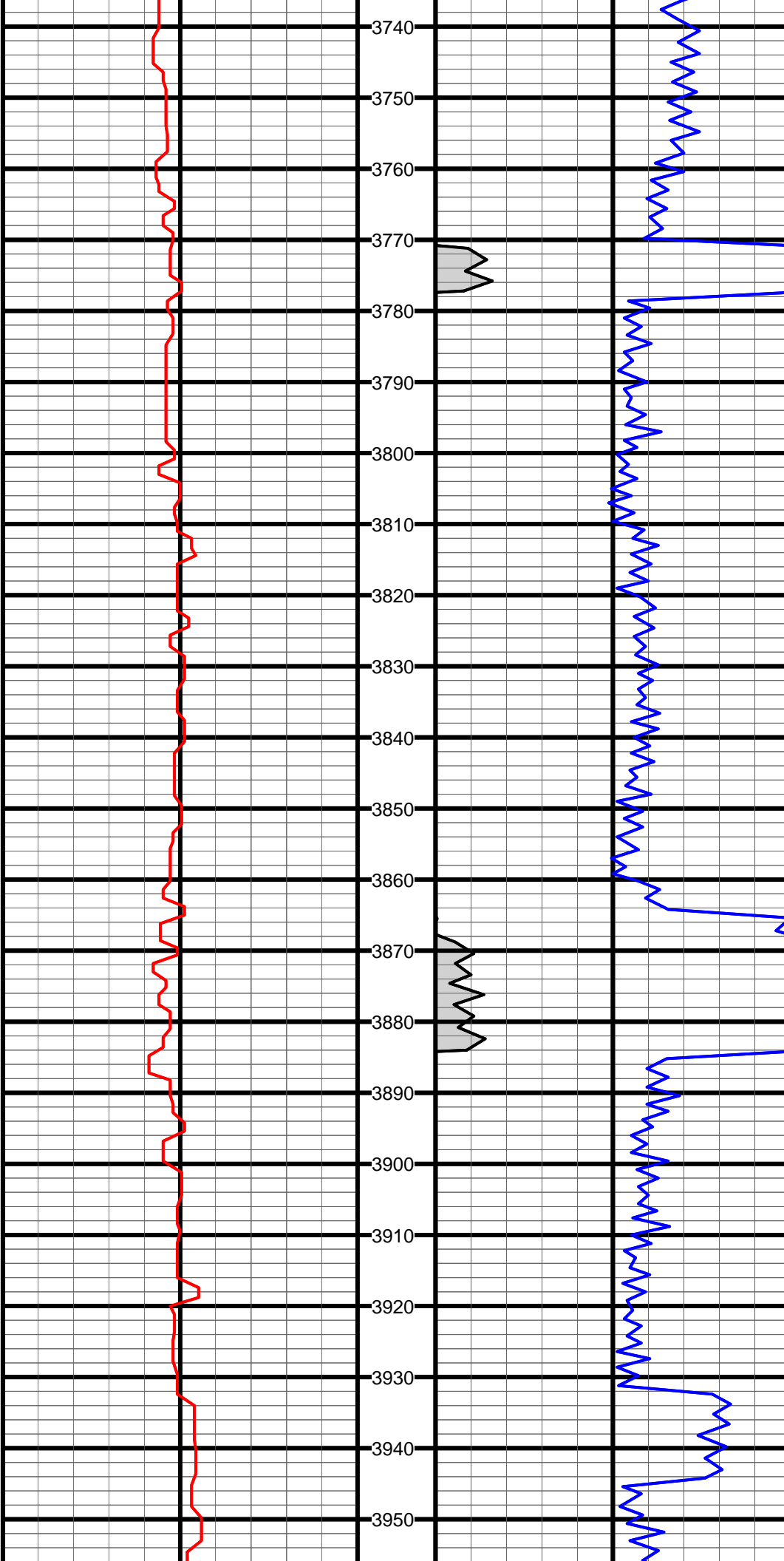
#26 MD:3426.0 TVD:3389.9 I:2.2 A:350.1 VS:-54.8



#27 MD:3521.0 TVD:3484.8 I:1.2 A:23.1 VS:-54.5

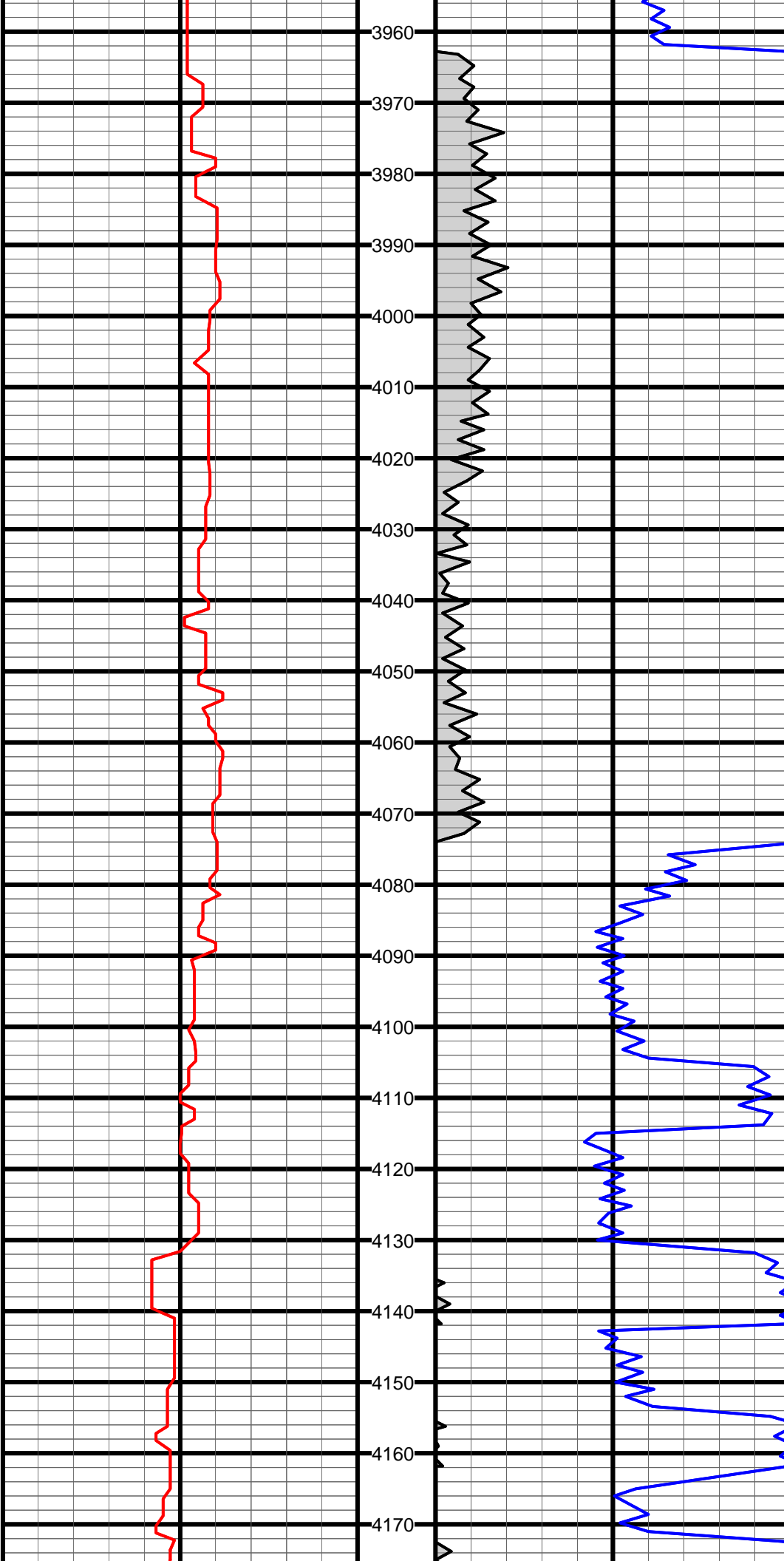
#28 MD:3616.0 TVD:3579.8 I:1.5 A:43.2 VS:-53.1

#29 MD:3711.0 TVD:3674.8 I:0.9 A:44.4 VS:-51.6



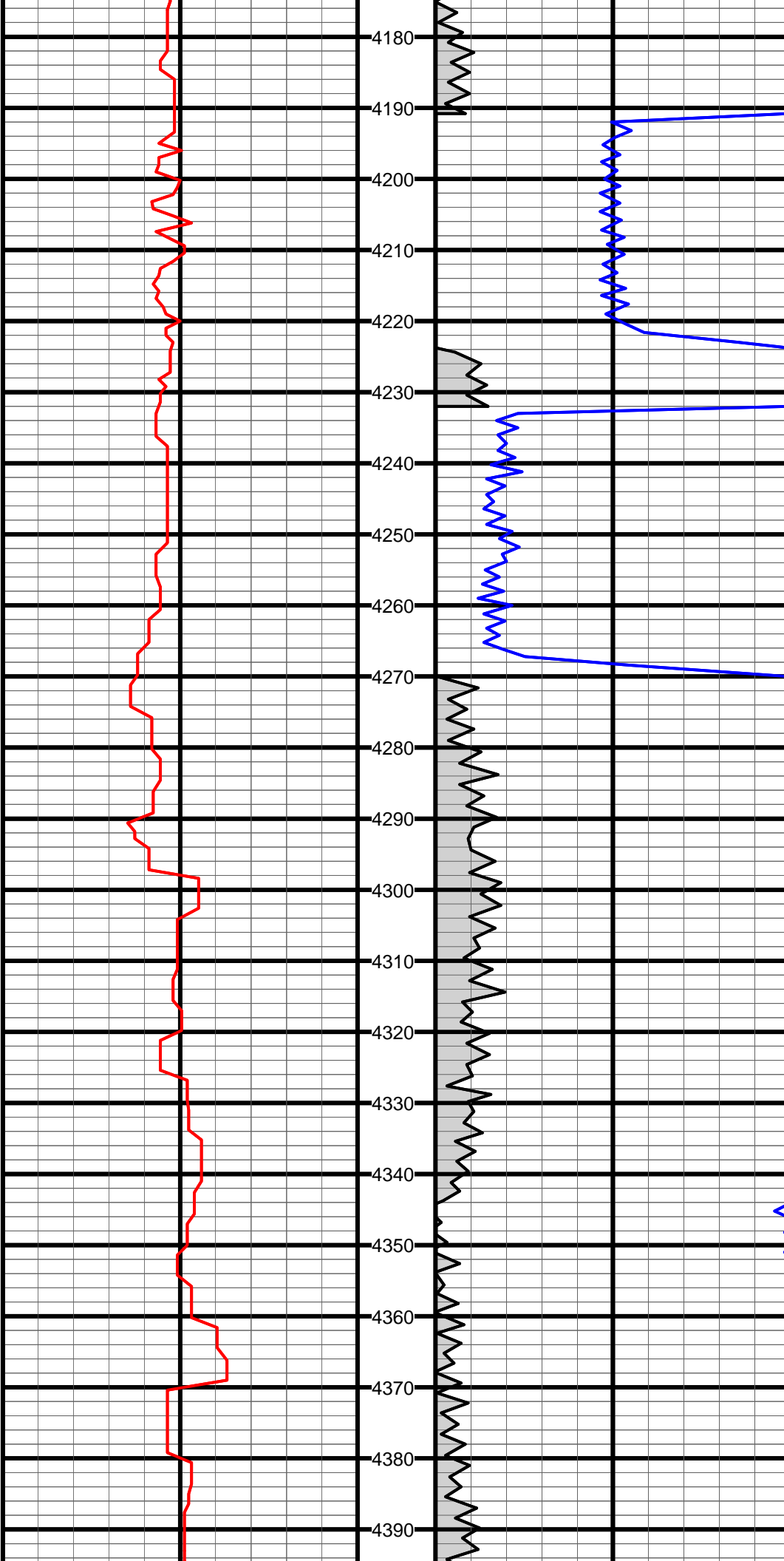
#30 MD:3806.0 TVD:3769.8 I:0.8 A:46.5 VS:-50.5

#31 MD:3901.0 TVD:3864.8 I:0.4 A:78.3 VS:-49.7



#32 MD:3996.0 TVD:3959.8 I:0.8 A:46.0 VS:-48.8

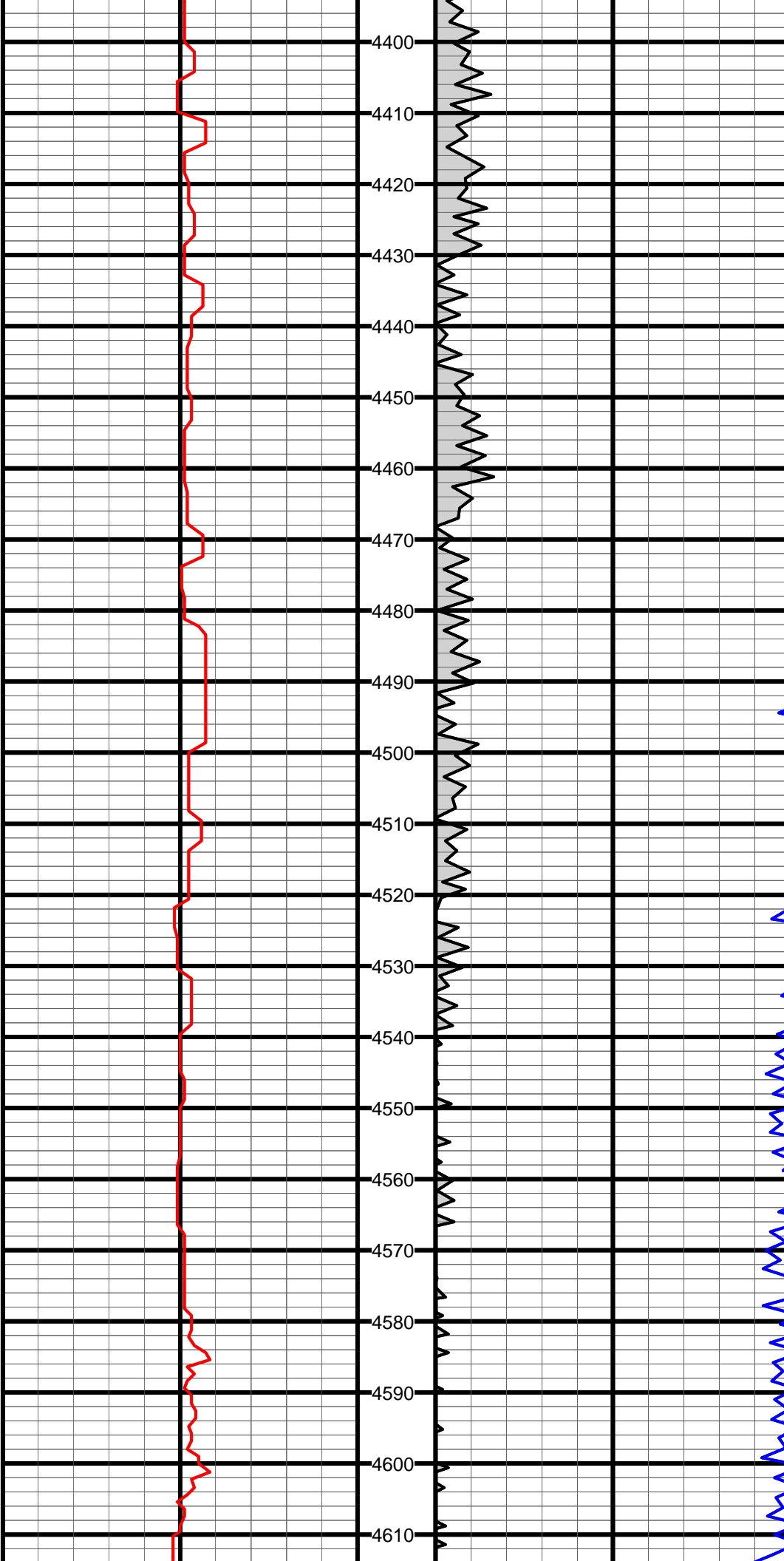
#33 MD:4091.0 TVD:4054.8 I:1.0 A:325.6 VS:-48.7



#34 MD:4186.0 TVD:4149.8 I:0.8 A:308.8 VS:-49.6

#35 MD:4281.0 TVD:4244.7 I:2.1 A:319.3 VS:-51.1

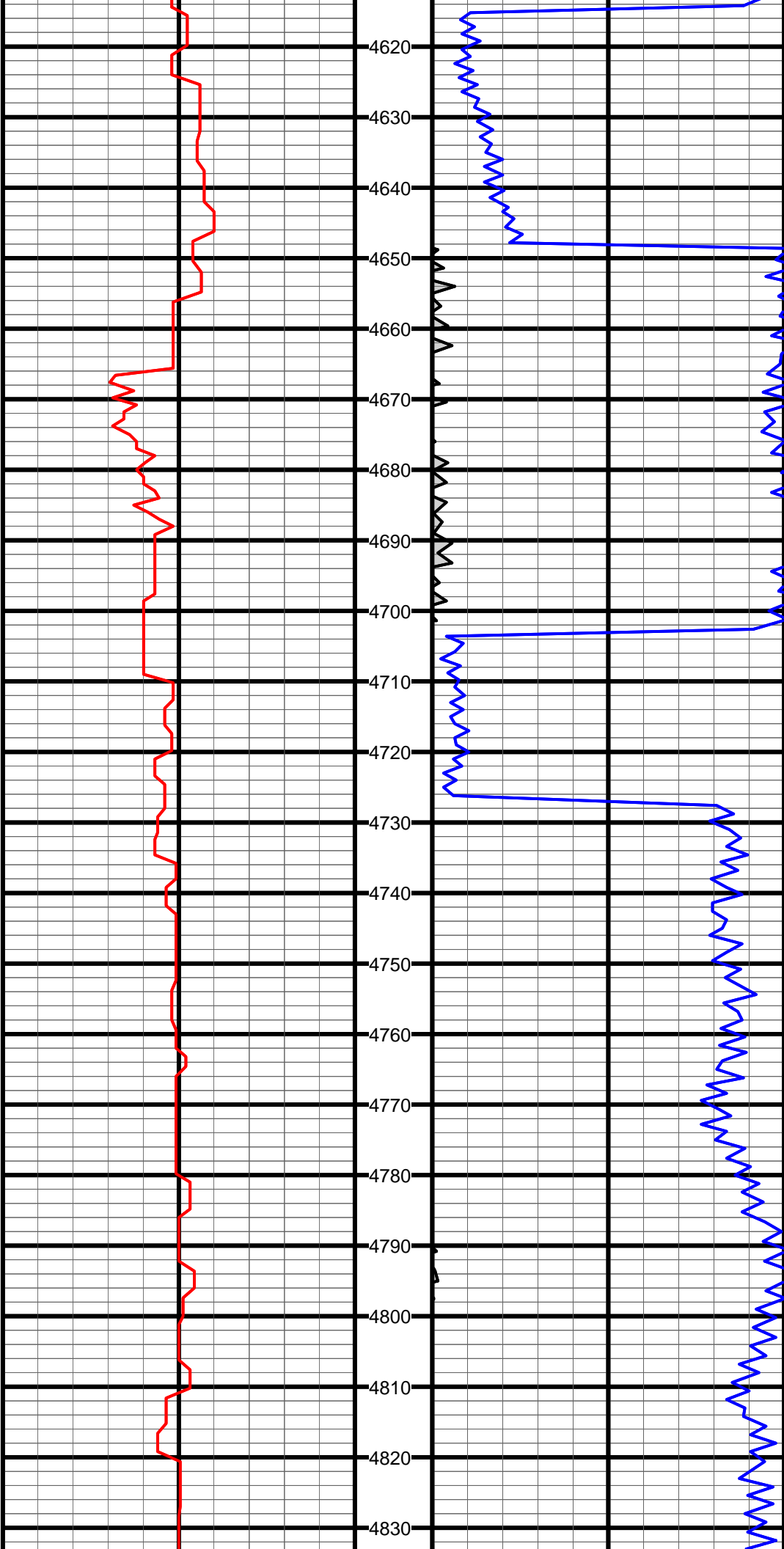
#36 MD:4376.0 TVD:4339.7 I:1.9 A:306.0 VS:-53.3



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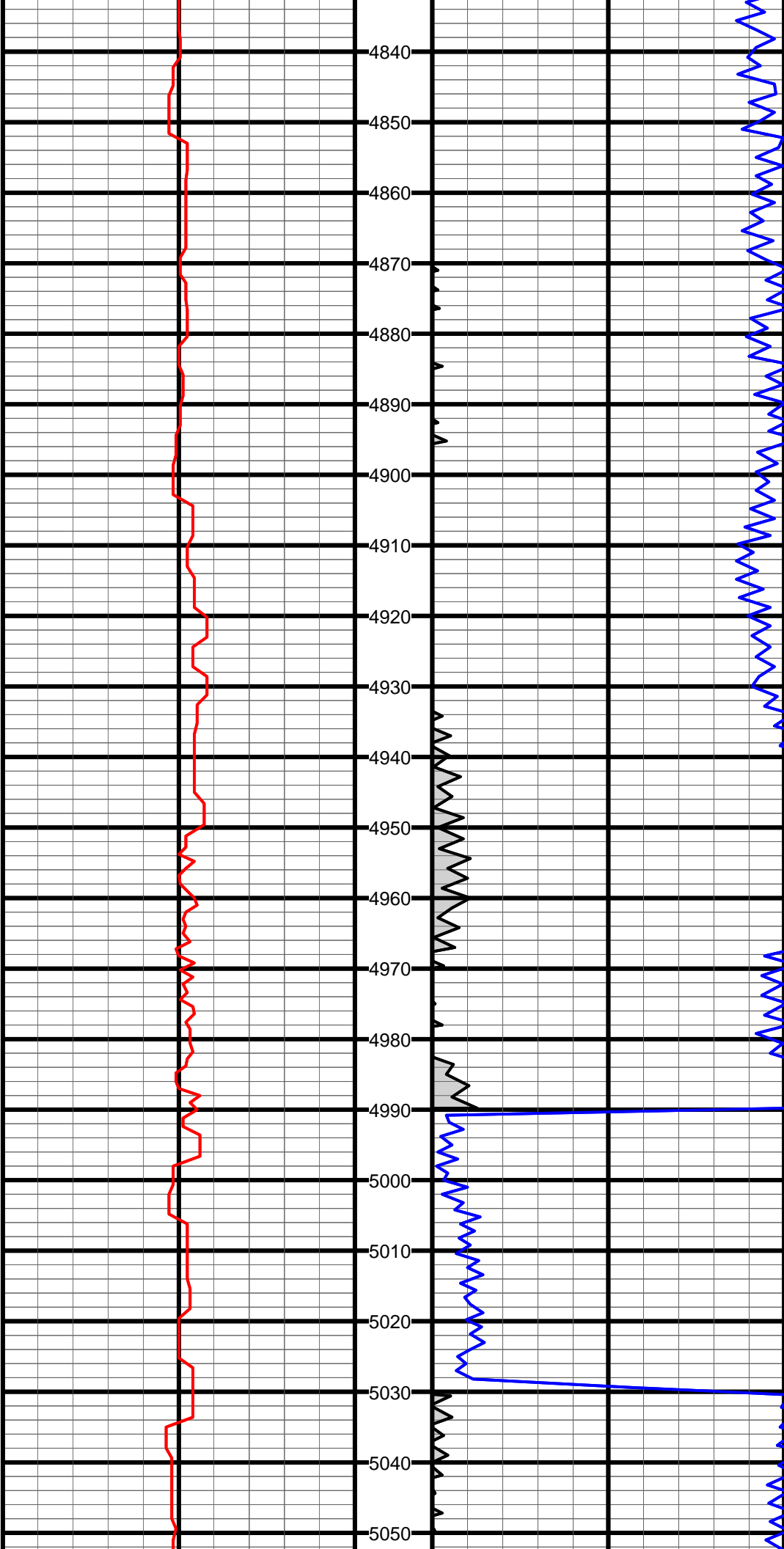
#37 MD:4471.0 TVD:4434.6 I:1.8 A:255.5 VS:-55.9

#38 MD:4566.0 TVD:4529.6 I:1.9 A:240.7 VS:-58.8



#39 MD:4661.0 TVD:4624.5 I:1.7 A:293.1 VS:-61.5

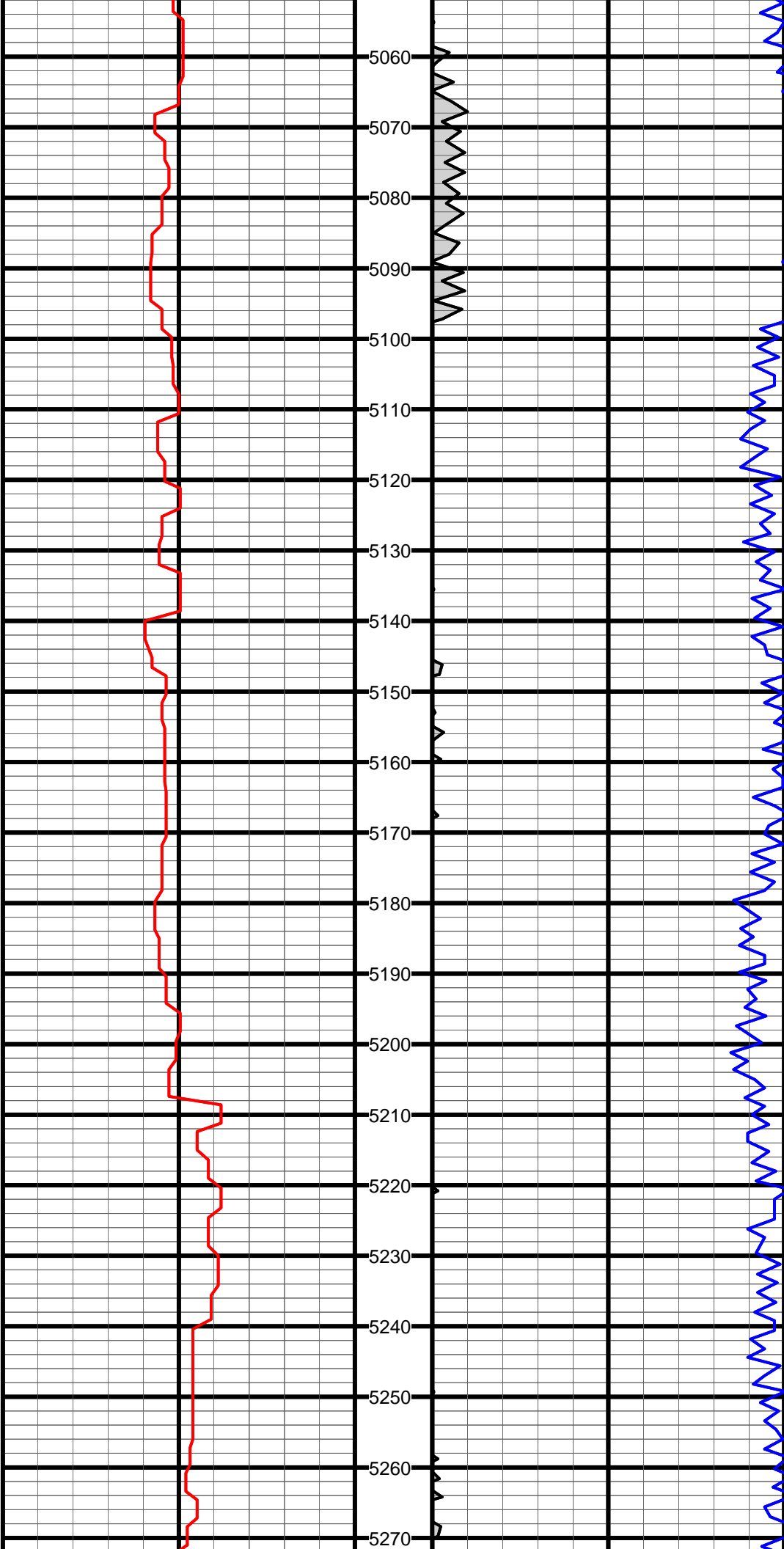
#40 MD:4756.0 TVD:4719.5 I:2.5 A:314.2 VS:-64.1



#41 MD:4851.0 TVD:4814.4 I:2.5 A:304.4 VS:-67.1

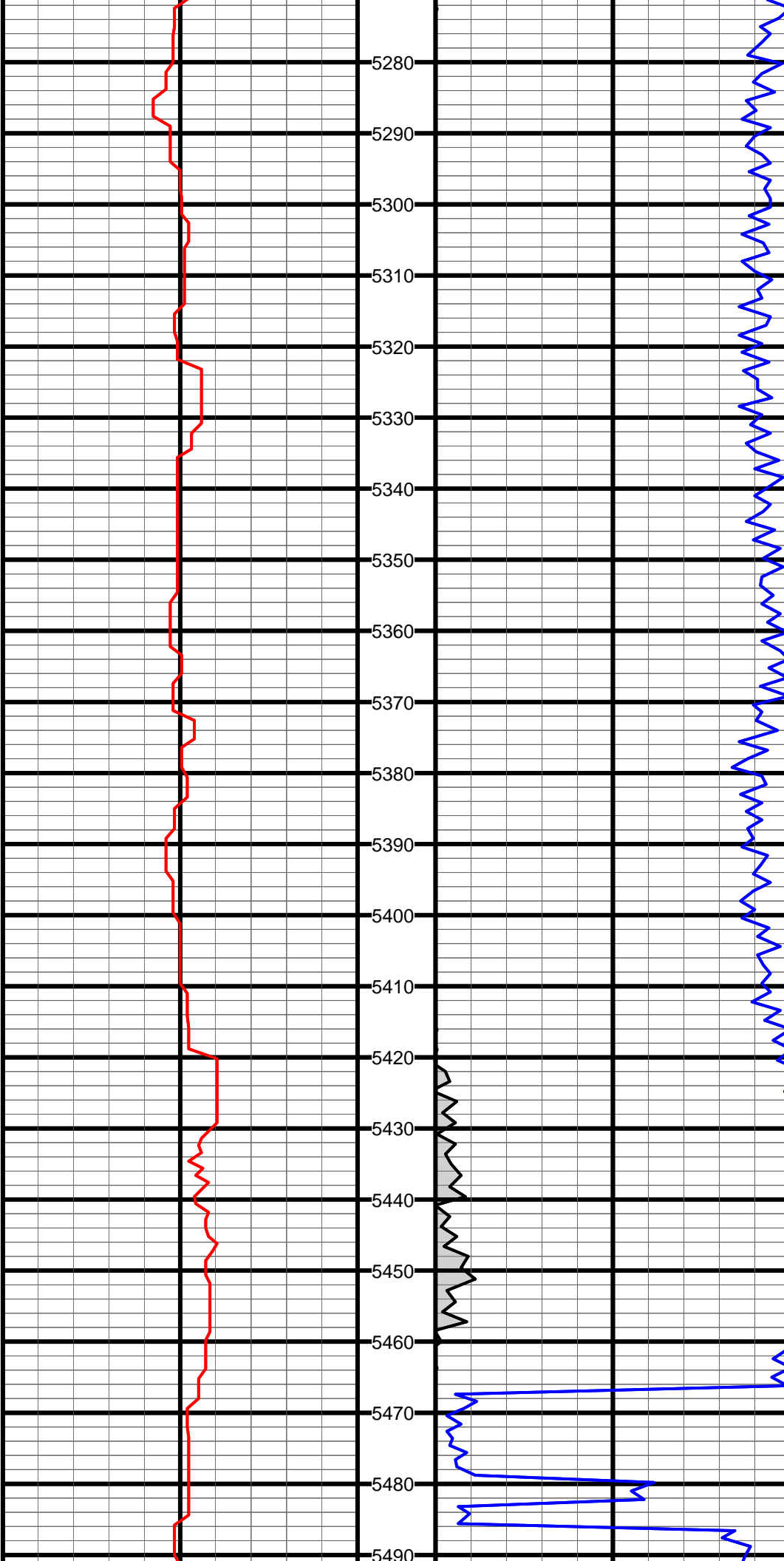
#42 MD:4946.0 TVD:4909.3 I:2.1 A:285.0 VS:-70.3

#43 MD:5041.0 TVD:5004.3 I:1.9 A:327.4 VS:-72.6



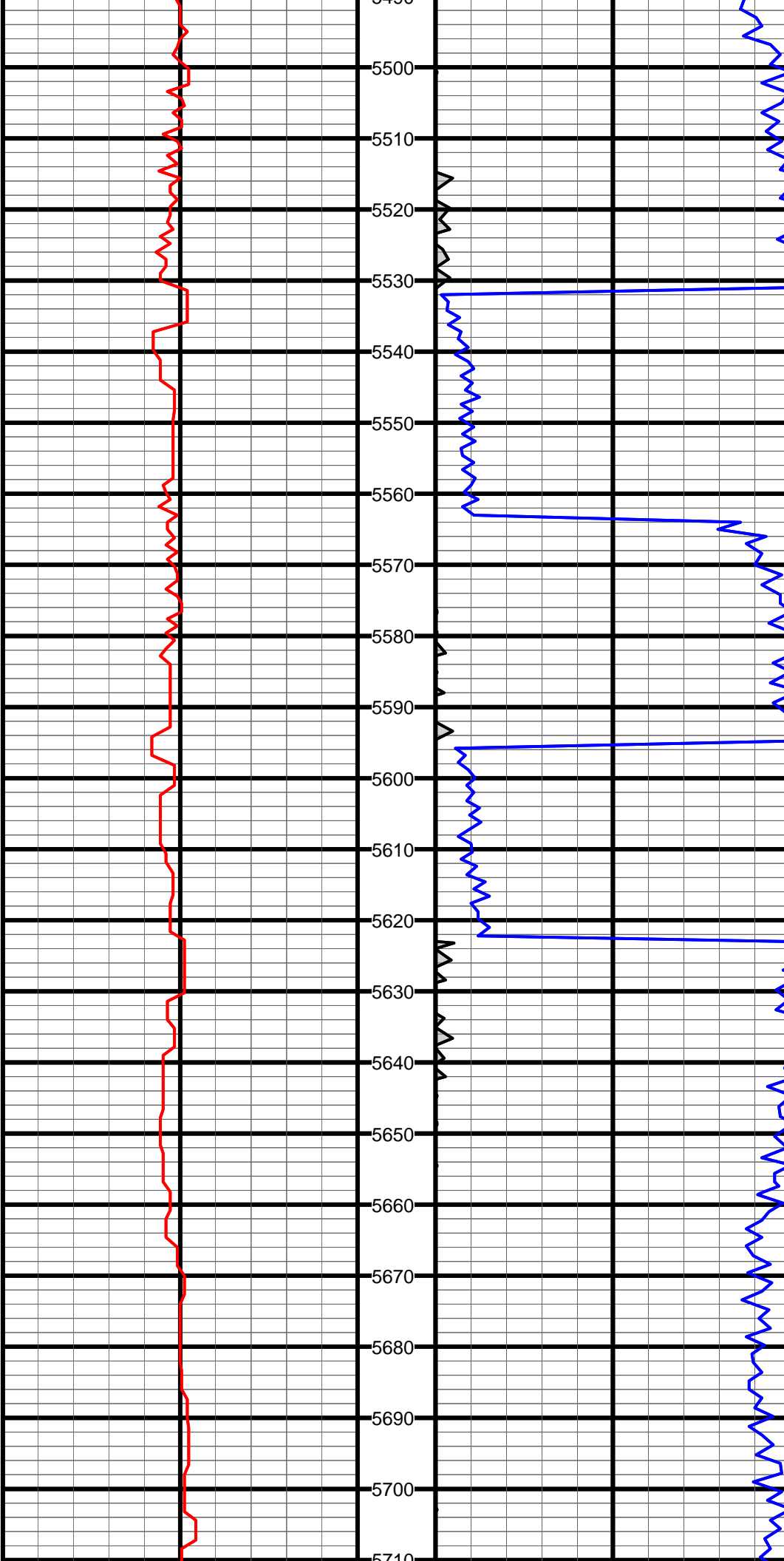
#44 MD:5135.0 TVD:5098.2 I:2.0 A:314.9 VS:-74.4

#45 MD:5230.0 TVD:5193.2 I:1.7 A:304.7 VS:-76.6



#46 MD:5421.0 TVD:5384.0 I:3.3 A:289.3 VS:-83.7

#47 MD:5484.0 TVD:5446.8 I:4.2 A:294.0 VS:-87.4

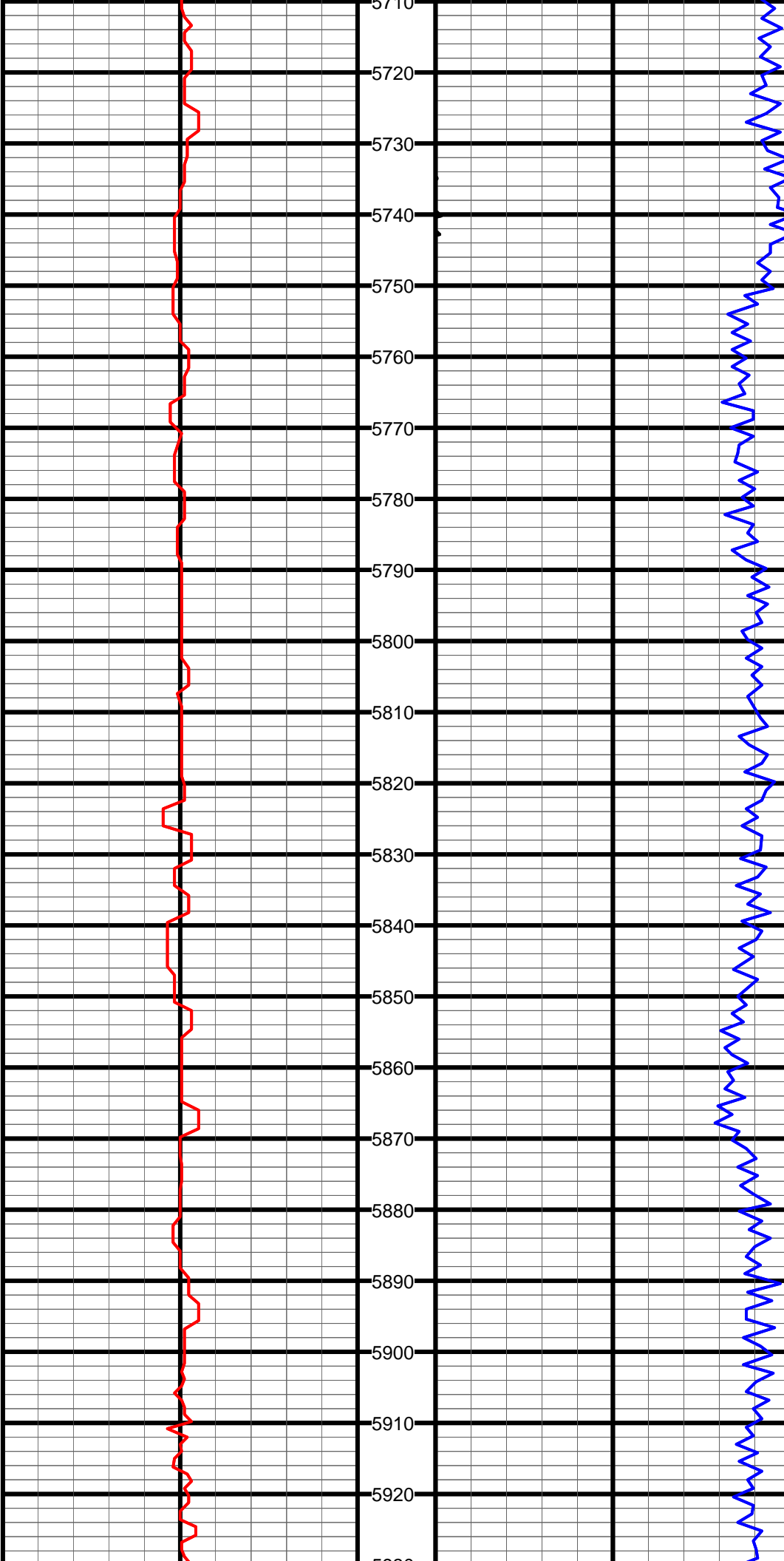


#48 MD:5516.0 TVD:5478.8 I:3.4 A:297.7 VS:-89.2

#49 MD:5548.0 TVD:5510.7 I:2.4 A:310.5 VS:-90.5

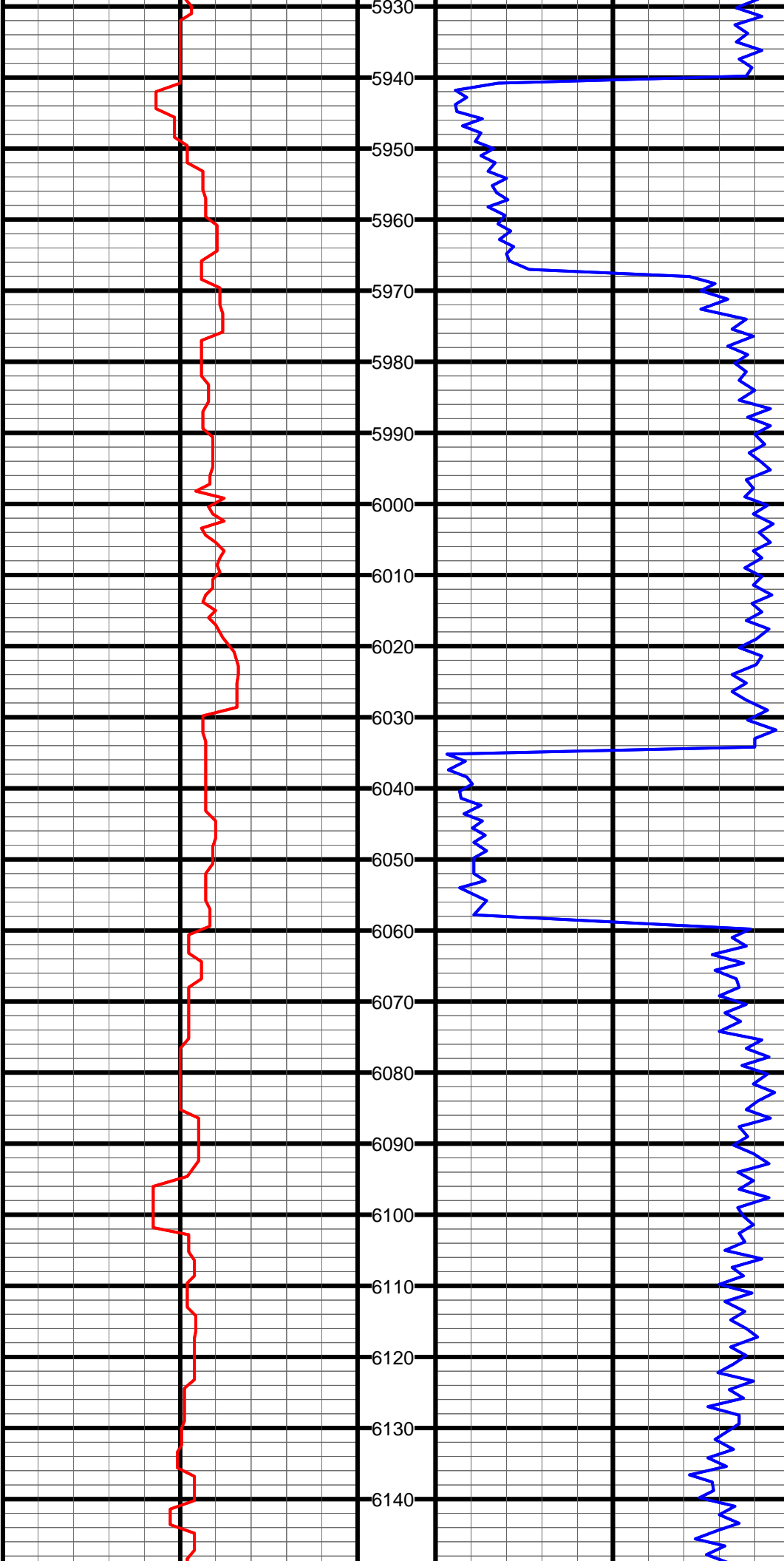
#50 MD:5611.0 TVD:5573.7 I:1.1 A:357.5 VS:-91.4

#51 MD:5706.0 TVD:5668.7 I:0.4 A:356.2 VS:-91.3



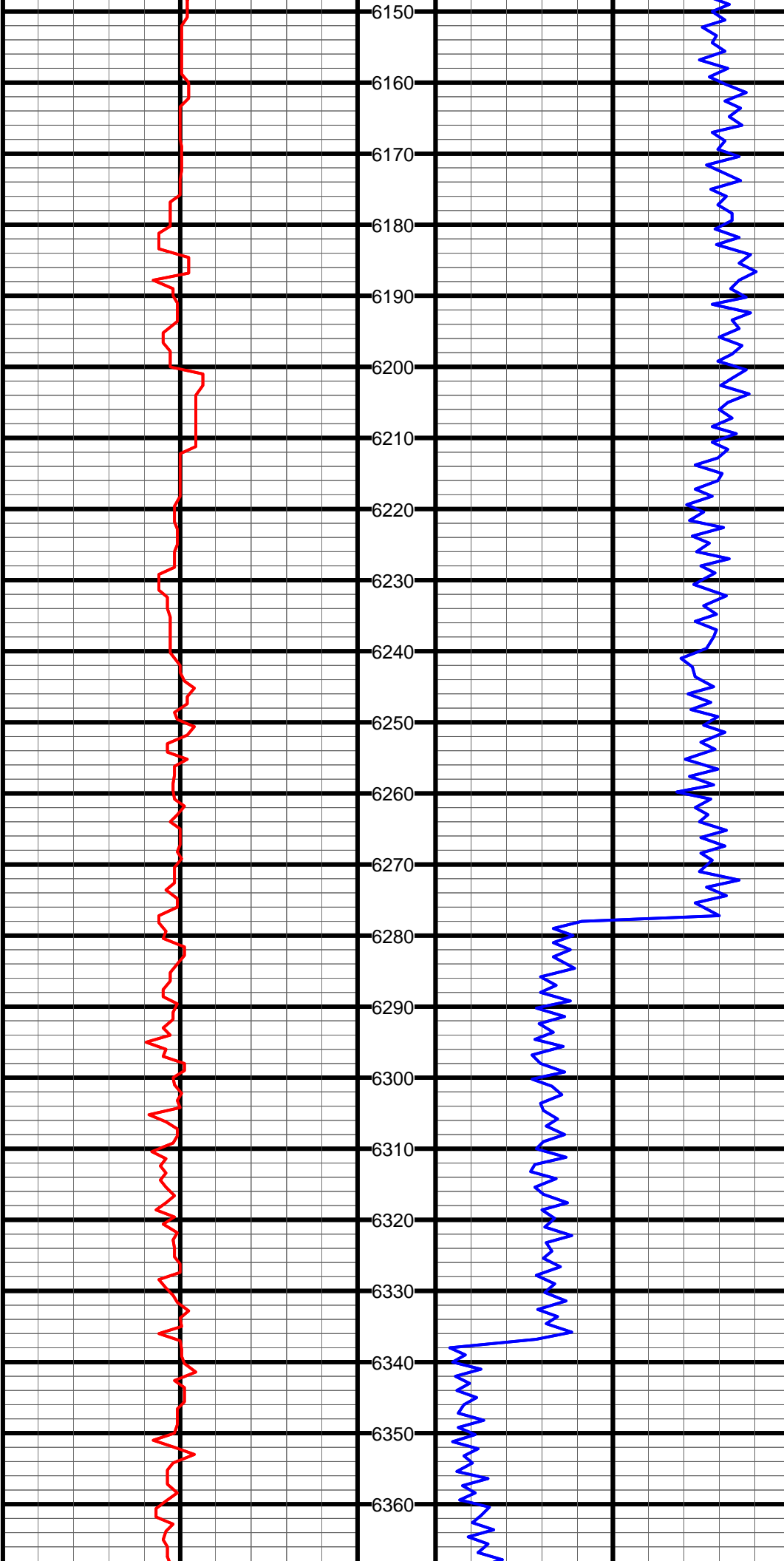
#52 MD:5801.0 TVD:5763.7 I:0.6 A:271.3 VS:-91.8

#53 MD:5895.0 TVD:5857.7 I:1.1 A:255.0 VS:-93.2



#54 MD:5990.0 TVD:5952.7 I:1.0 A:279.4 VS:-94.9

#55 MD:6085.0 TVD:6047.6 I:1.4 A:252.3 VS:-96.8

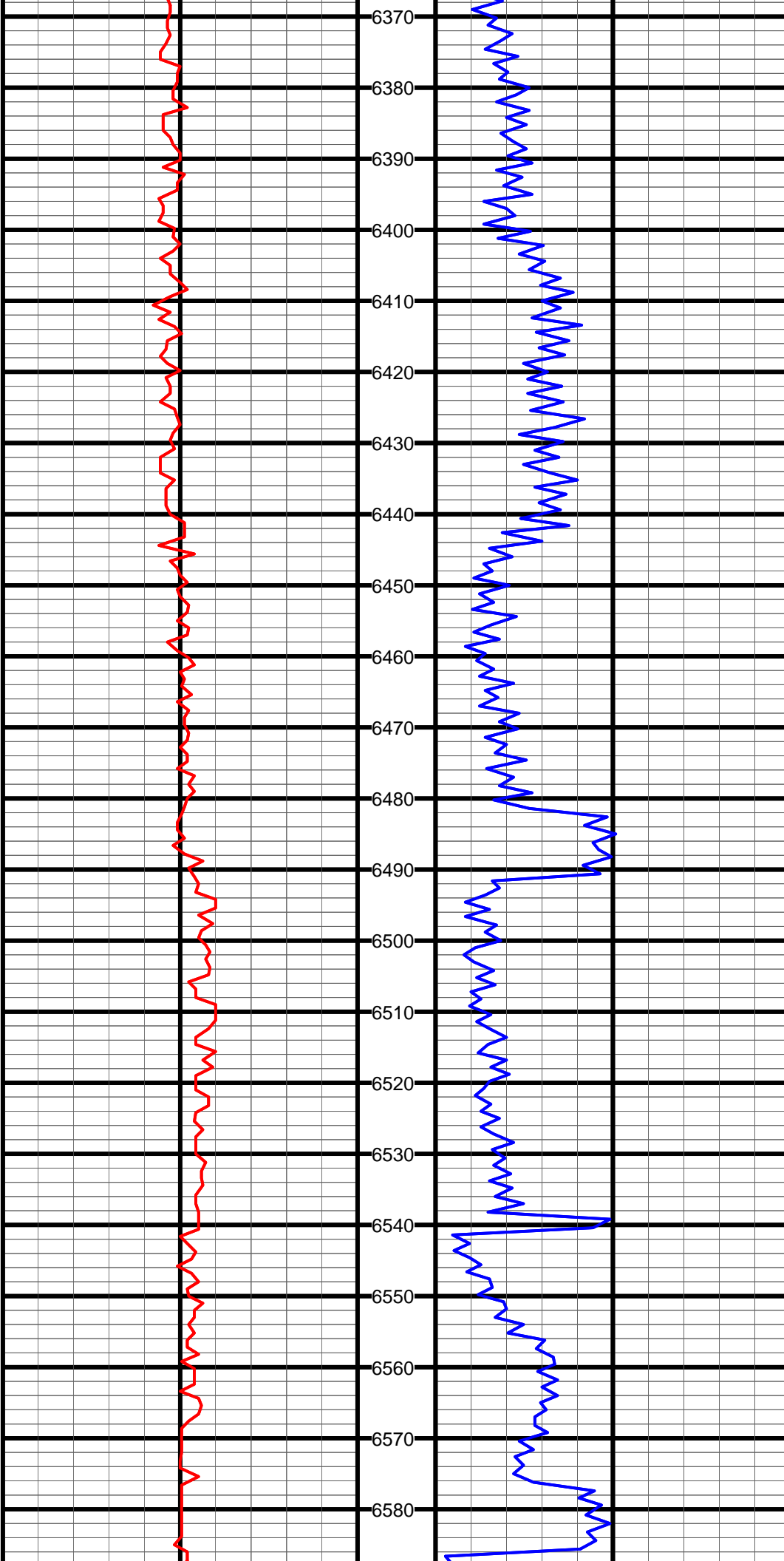


#56 MD:6180.0 TVD:6142.6 I:2.5 A:266.1 VS:-100.0

#57 MD:6233.0 TVD:6195.5 I:2.6 A:285.6 VS:-102.3

#58 MD:6299.0 TVD:6261.5 I:2.8 A:292.3 VS:-105.1

#59 MD:6344.0 TVD:6306.4 I:2.1 A:340.4 VS:-106.3



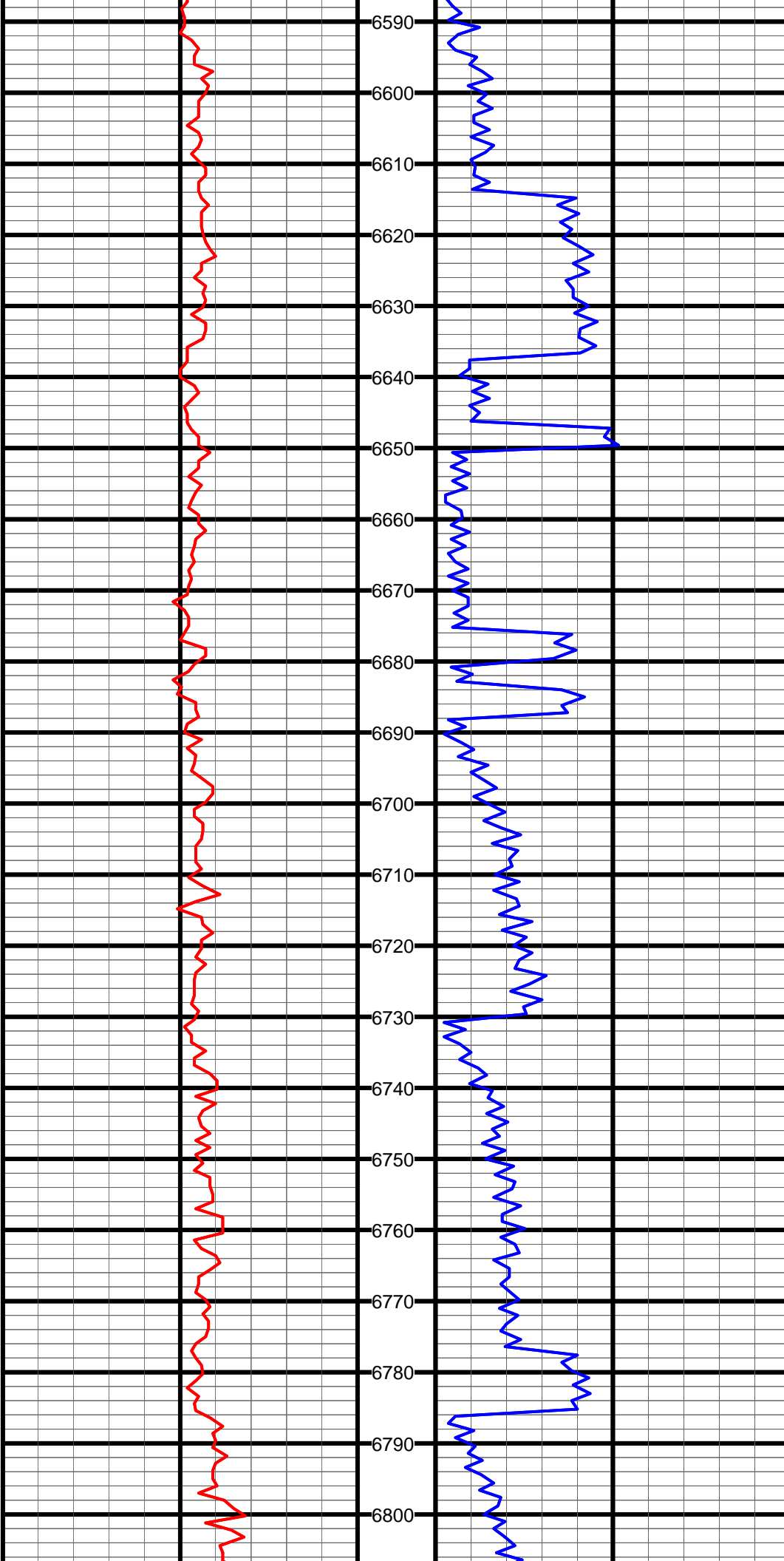
#60 MD:6394.0 TVD:6356.3 I:6.6 A:71.8 VS:-103.7

#61 MD:6439.0 TVD:6400.8 I:10.5 A:86.4 VS:-97.1

#62 MD:6489.0 TVD:6449.5 I:15.7 A:90.3 VS:-85.8

#63 MD:6534.0 TVD:6492.1 I:21.4 A:84.7 VS:-71.5

#64 MD:6584.0 TVD:6538.3 I:23.8 A:82.2 VS:-52.3

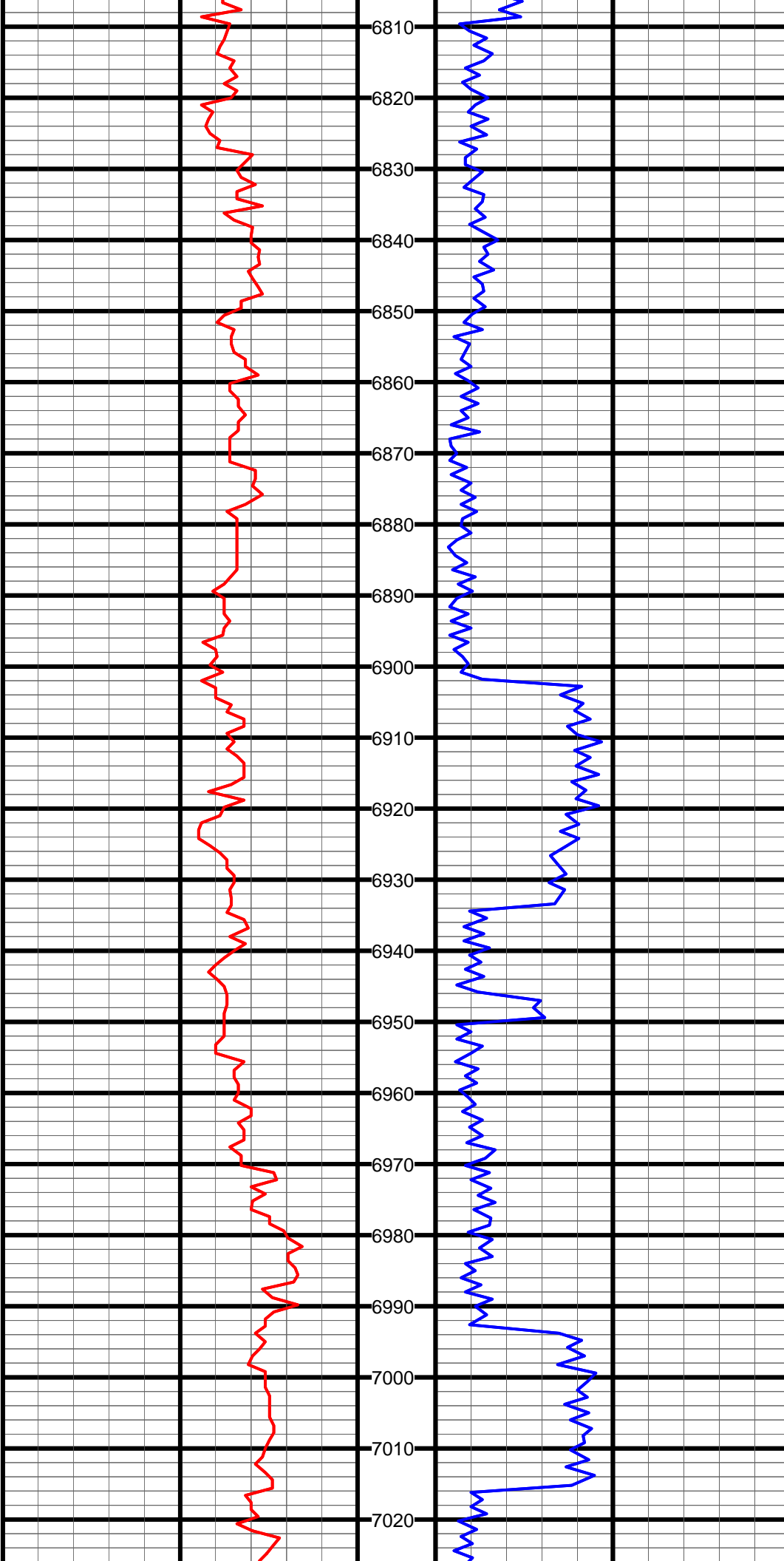


#65 MD:6629.0 TVD:6579.2 I:25.2 A:83.2 VS:-33.7

#66 MD:6679.0 TVD:6624.1 I:27.4 A:79.9 VS:-11.6

#67 MD:6724.0 TVD:6663.1 I:32.3 A:85.2 VS:10.8

#68 MD:6774.0 TVD:6704.5 I:35.8 A:95.0 VS:38.6



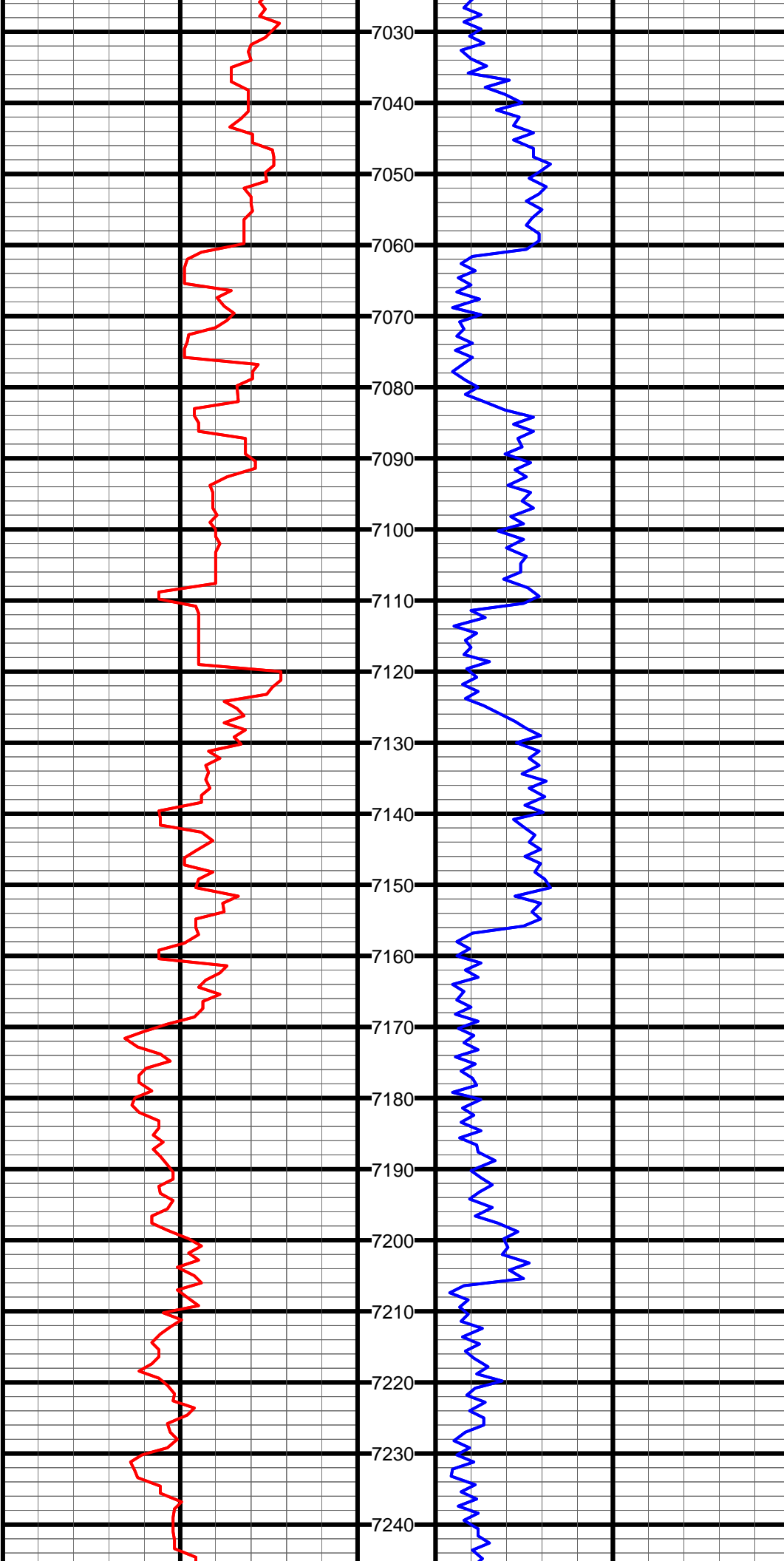
#69 MD:6819.0 TVD:6740.1 I:39.9 A:95.4 VS:65.7

#70 MD:6869.0 TVD:6776.5 I:46.5 A:95.0 VS:99.4

#71 MD:6914.0 TVD:6806.7 I:49.2 A:93.6 VS:132.3

#72 MD:6964.0 TVD:6837.9 I:53.4 A:92.7 VS:170.9

#73 MD:7009.0 TVD:6863.8 I:56.5 A:92.4 VS:207.4

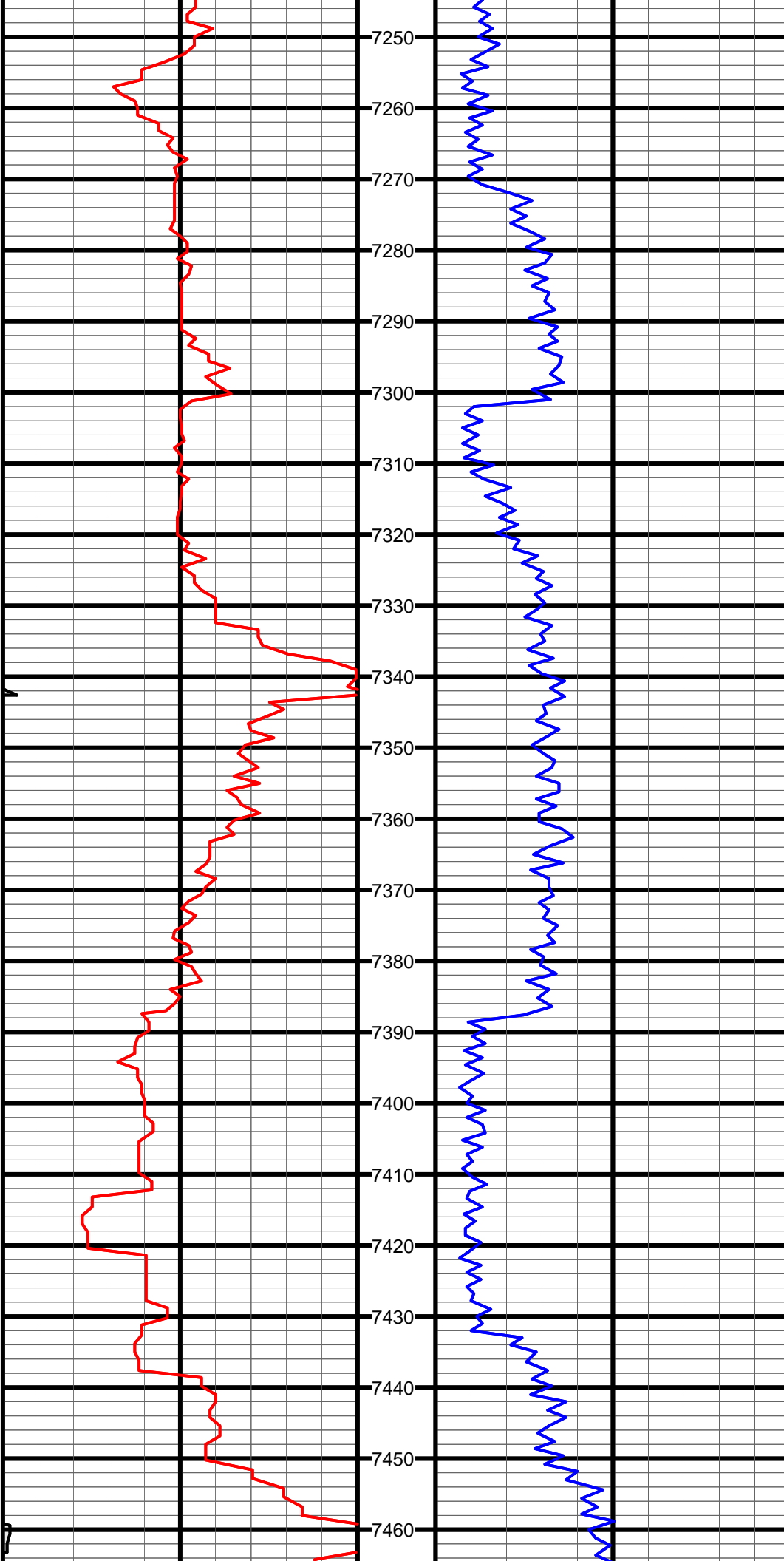


#74 MD:7059.0 TVD:6890.0 I:60.3 A:89.8 VS:249.7

#75 MD:7104.0 TVD:6911.7 I:62.0 A:88.9 VS:289.0

#76 MD:7154.0 TVD:6934.6 I:63.5 A:91.3 VS:333.2

#77 MD:7199.0 TVD:6952.8 I:68.8 A:93.4 VS:374.0



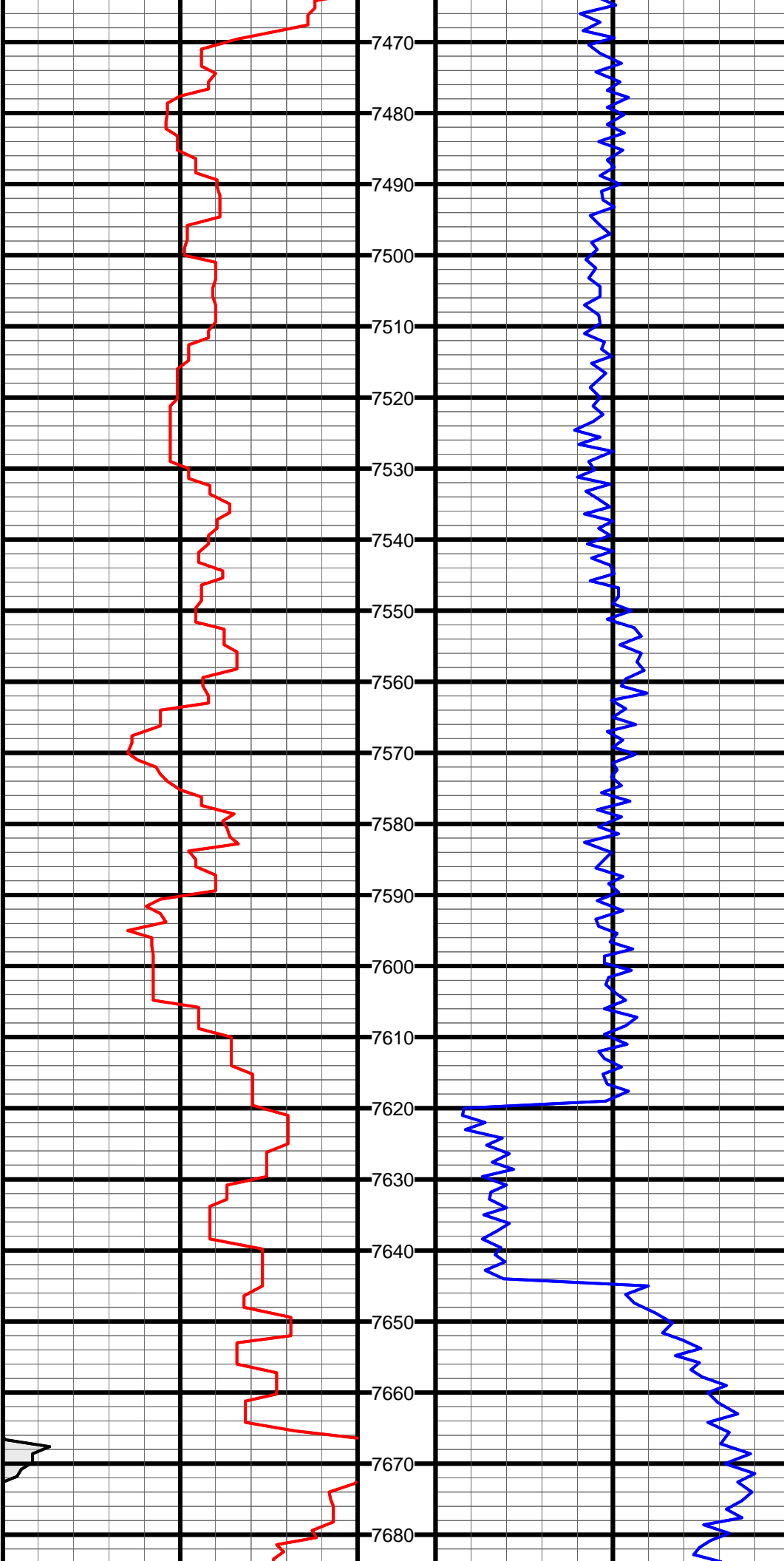
#78 MD:7249.0 TVD:6967.9 I:76.0 A:93.1 VS:421.1

#79 MD:7294.0 TVD:6977.9 I:78.2 A:91.9 VS:464.6

#80 MD:7324.0 TVD:6983.9 I:78.9 A:91.0 VS:493.8

#81 MD:7344.0 TVD:6987.7 I:79.0 A:90.4 VS:513.3

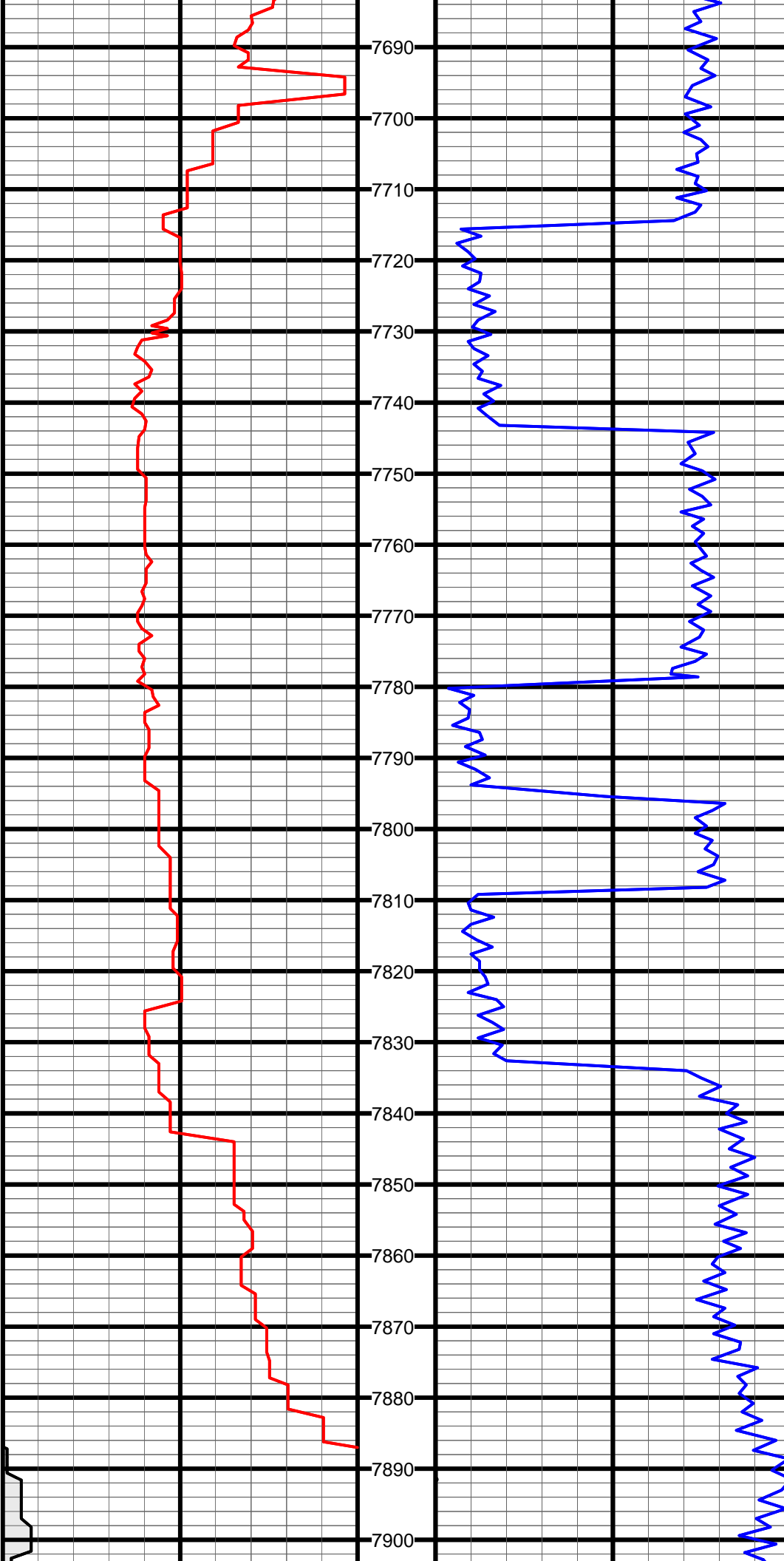
#82 MD:7381.0 TVD:6994.7 I:79.1 A:90.4 VS:549.4



#83 MD:7468.0 TVD:7006.3 I:85.6 A:89.0 VS:635.3

#84 MD:7563.0 TVD:7013.5 I:85.7 A:88.9 VS:729.8

#85 MD:7658.0 TVD:7021.1 I:85.2 A:89.2 VS:824.2

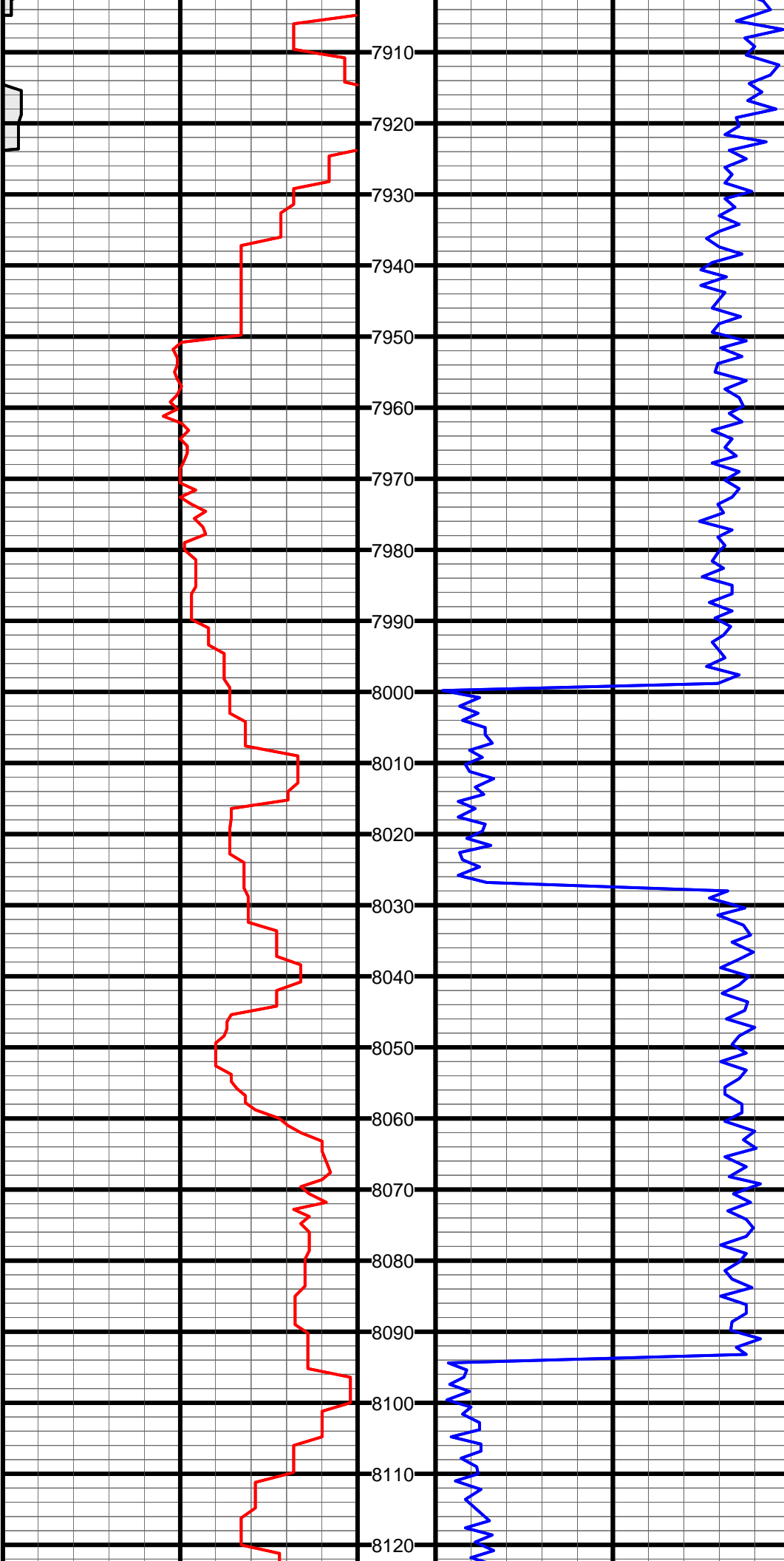


#86 MD:7722.0 TVD:7025.9 I:86.2 A:88.9 VS:887.8

#87 MD:7753.0 TVD:7027.6 I:87.3 A:88.0 VS:918.7

#88 MD:7817.0 TVD:7029.3 I:89.7 A:88.7 VS:982.6

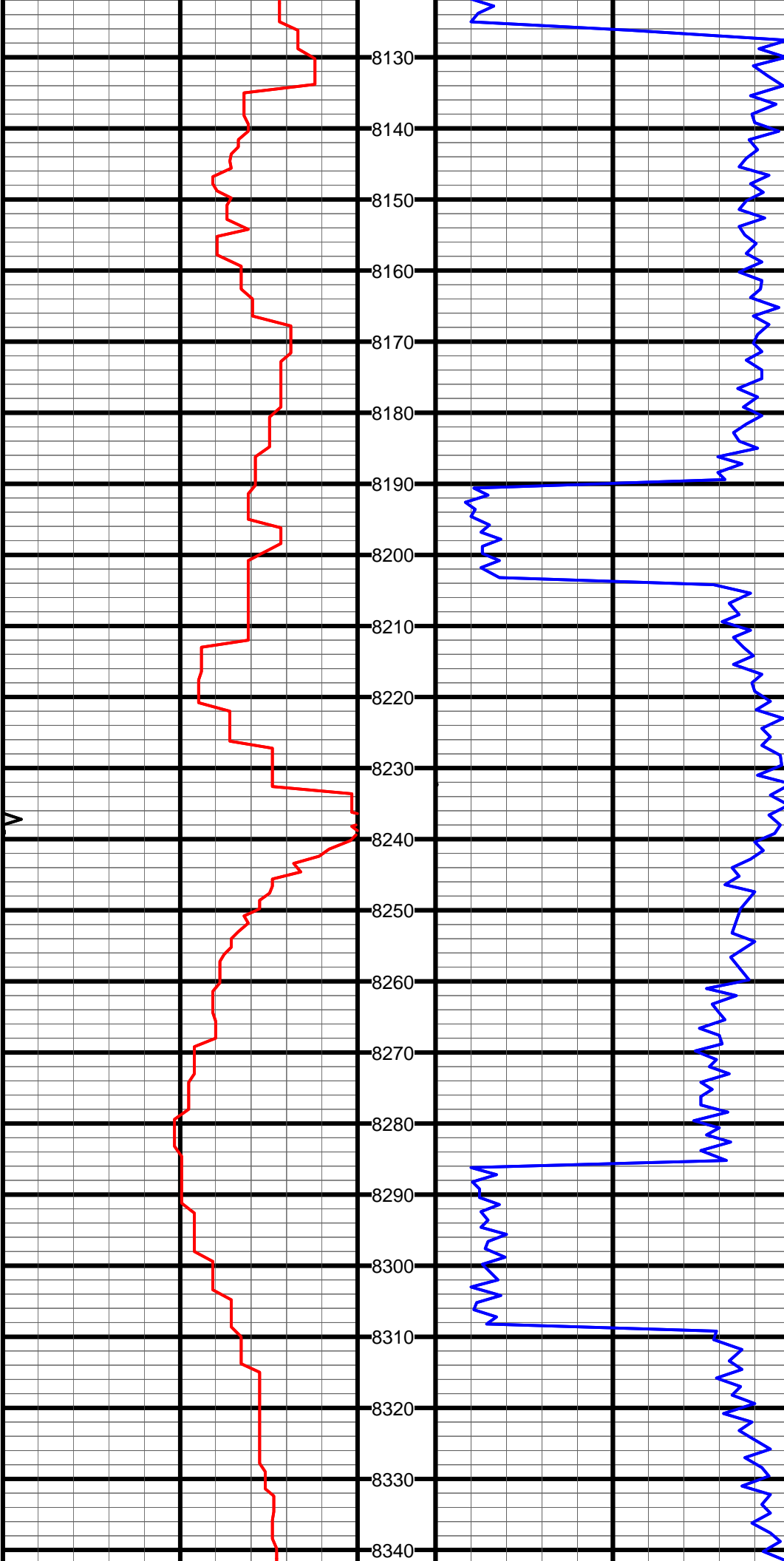
#89 MD:7849.0 TVD:7029.2 I:90.8 A:88.3 VS:1014.5



#90 MD:7944.0 TVD:7027.3 I:91.4 A:87.1 VS:1109.4

#91 MD:8007.0 TVD:7025.8 I:91.3 A:88.5 VS:1172.3

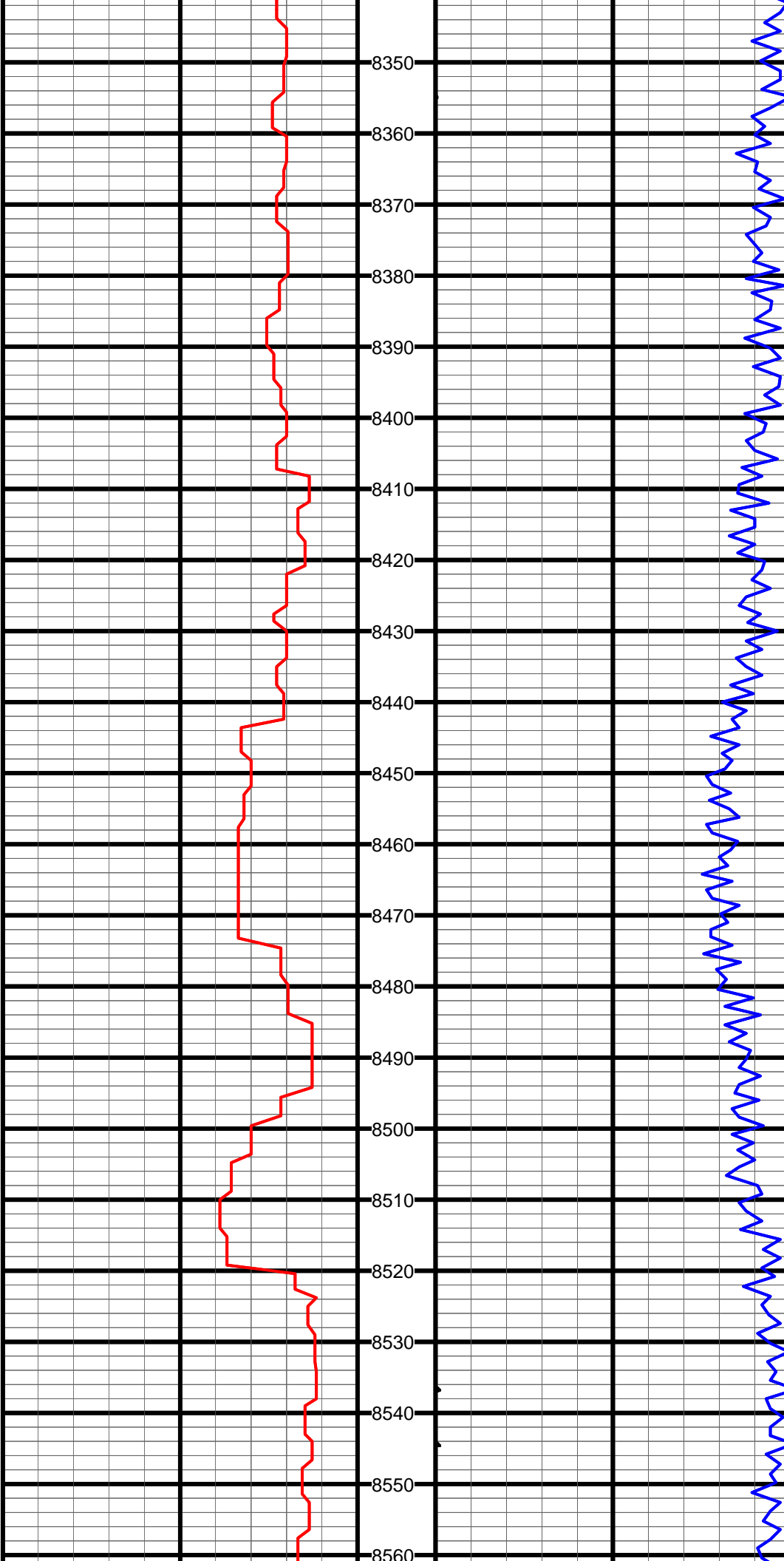
#92 MD:8039.0 TVD:7025.1 I:91.2 A:89.0 VS:1204.2



#93 MD:8134.0 TVD:7023.4 I:90.9 A:92.0 VS:1298.7

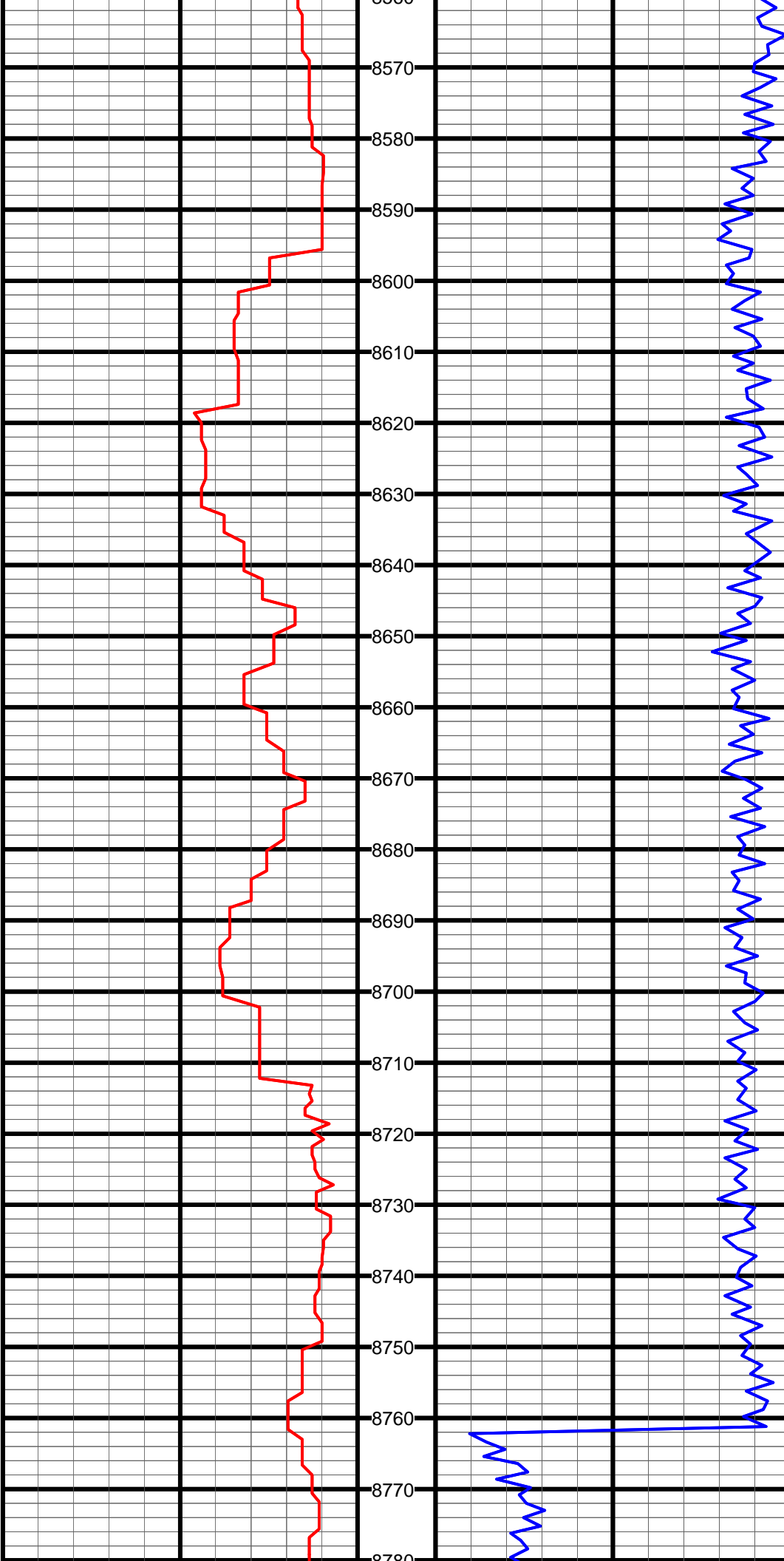
#94 MD:8229.0 TVD:7022.3 I:90.4 A:91.3 VS:1393.0

#95 MD:8324.0 TVD:7022.2 I:89.7 A:93.1 VS:1487.2



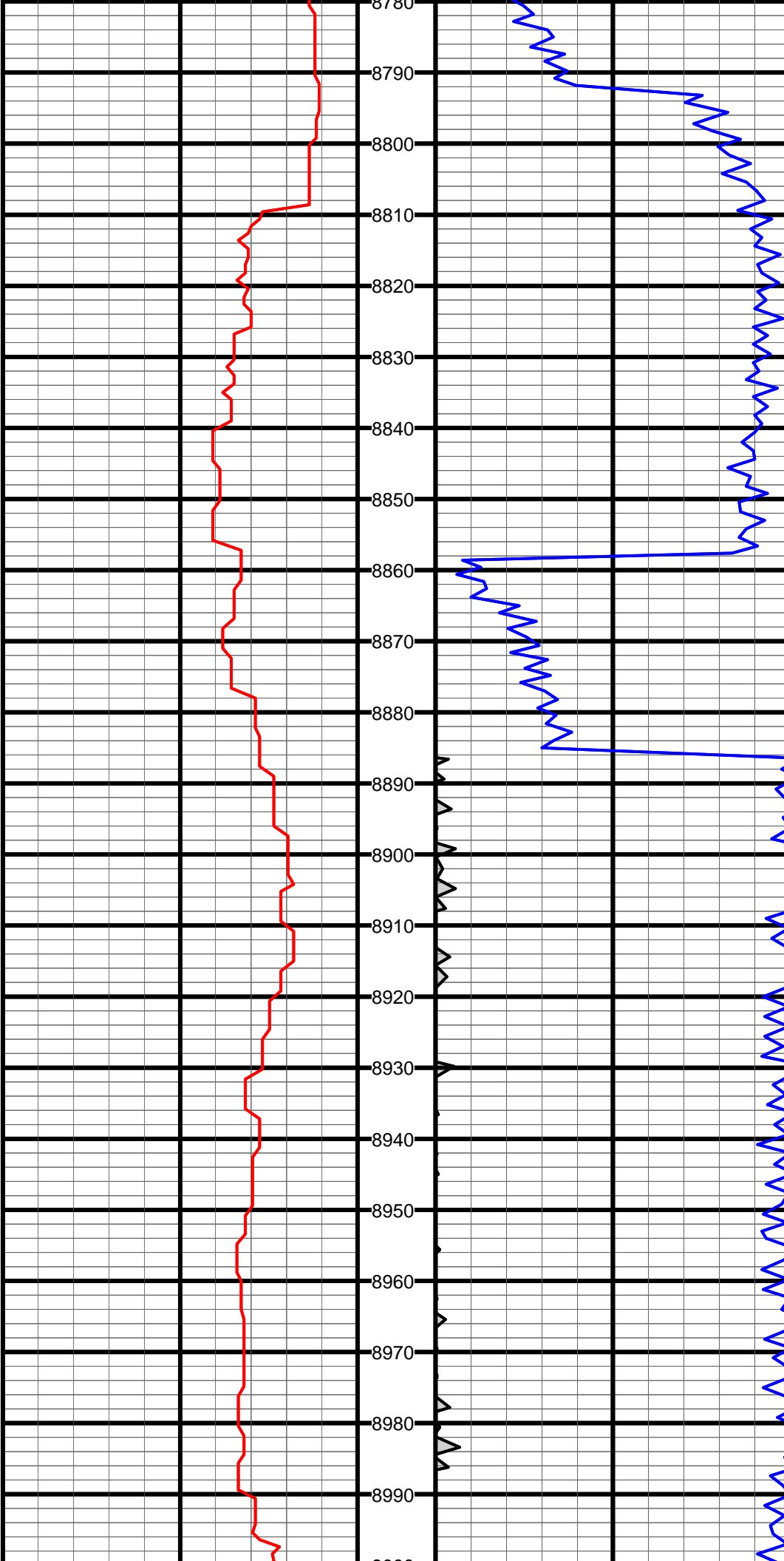
#96 MD:8419.0 TVD:7023.1 I:89.3 A:93.3 VS:1581.1

#97 MD:8514.0 TVD:7024.2 I:89.4 A:92.9 VS:1675.1



#98 MD:8609.0 TVD:7025.0 I:89.6 A:93.1 VS:1769.2

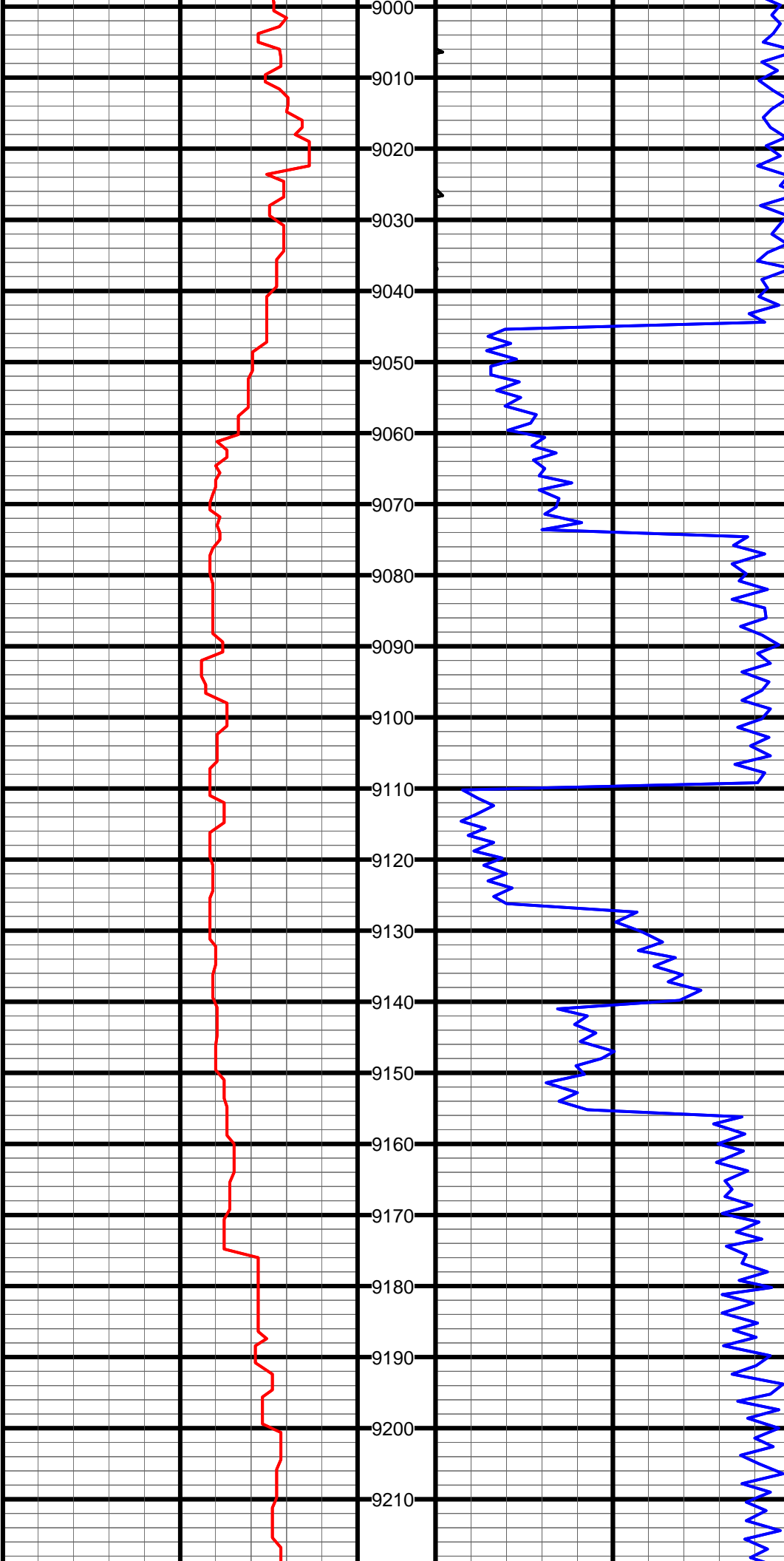
#99 MD:8704.0 TVD:7025.1 I:90.2 A:92.9 VS:1863.2



#100 MD:8799.0 TVD:7026.1 I:88.7 A:92.0 VS:1957.3

#101 MD:8894.0 TVD:7028.5 I:88.4 A:89.9 VS:2051.7

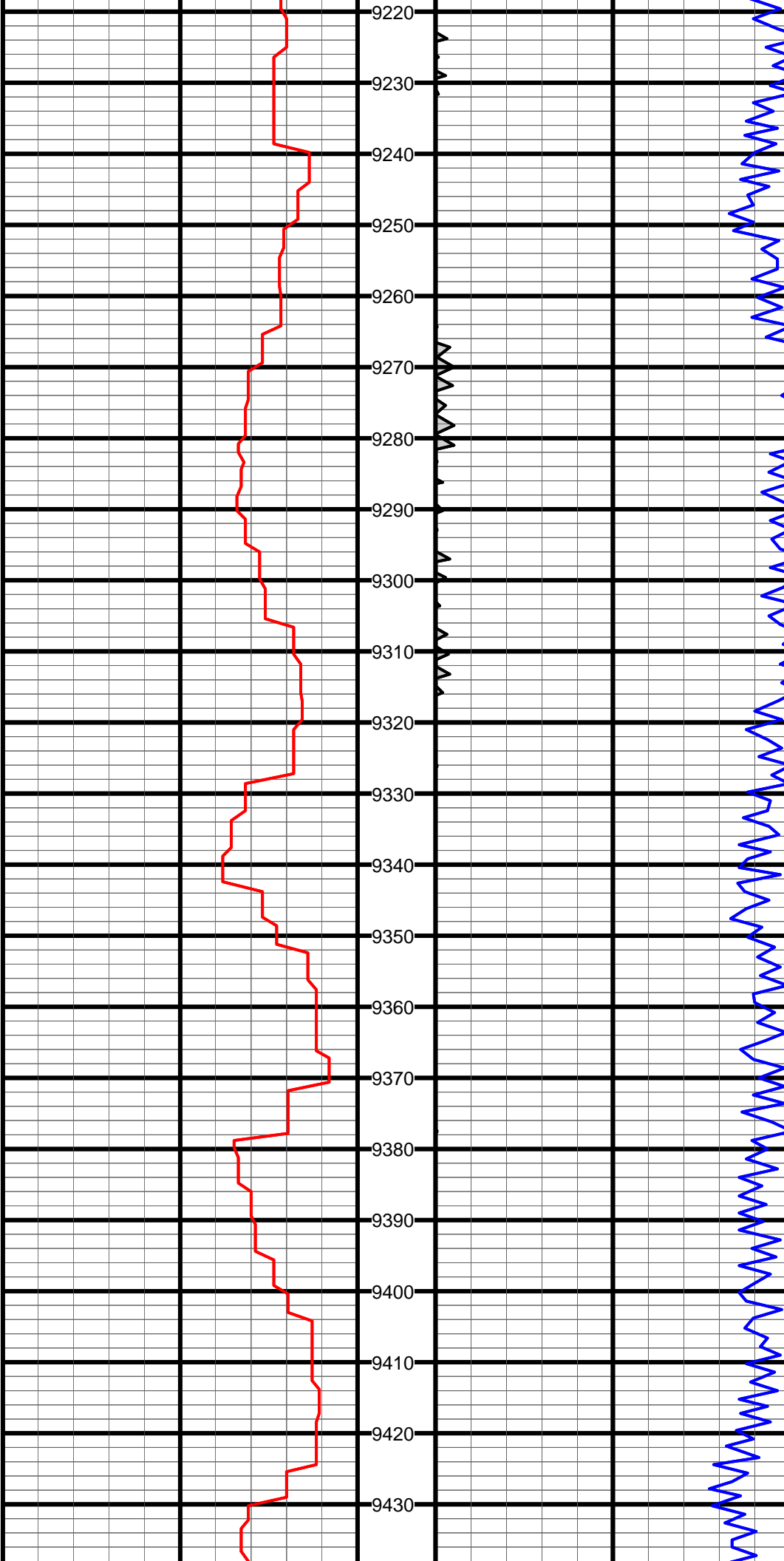
#102 MD:8989.0 TVD:7031.9 I:87.4 A:89.8 VS:2146.3



#103 MD:9053.0 TVD:7034.7 I:87.6 A:89.6 VS:2210.0

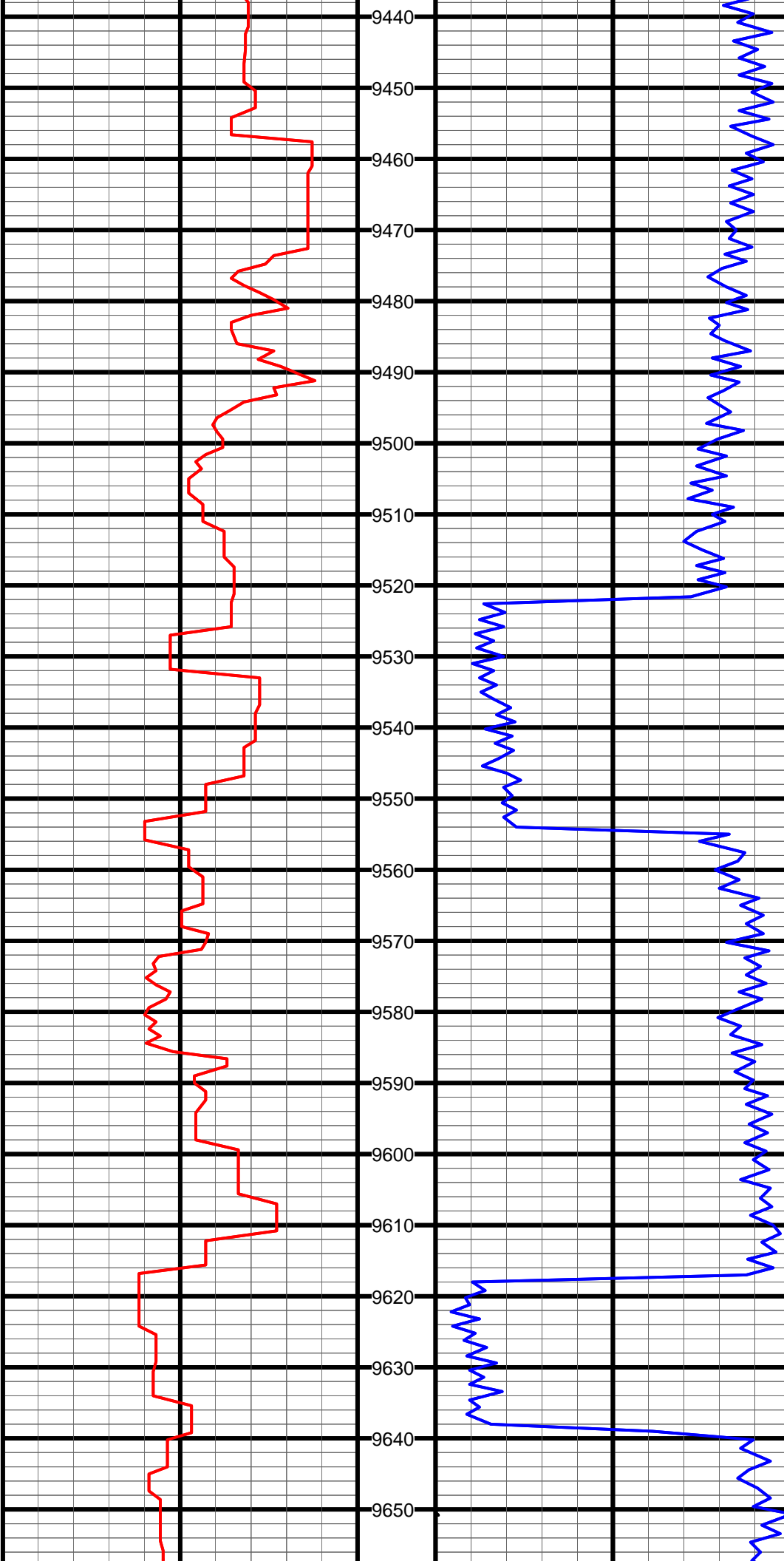
#104 MD:9084.0 TVD:7035.6 I:89.1 A:88.9 VS:2240.9

#105 MD:9179.0 TVD:7036.2 I:90.2 A:88.2 VS:2335.7



#106 MD:9274.0 TVD:7036.0 I:90.0 A:88.5 VS:2430.5

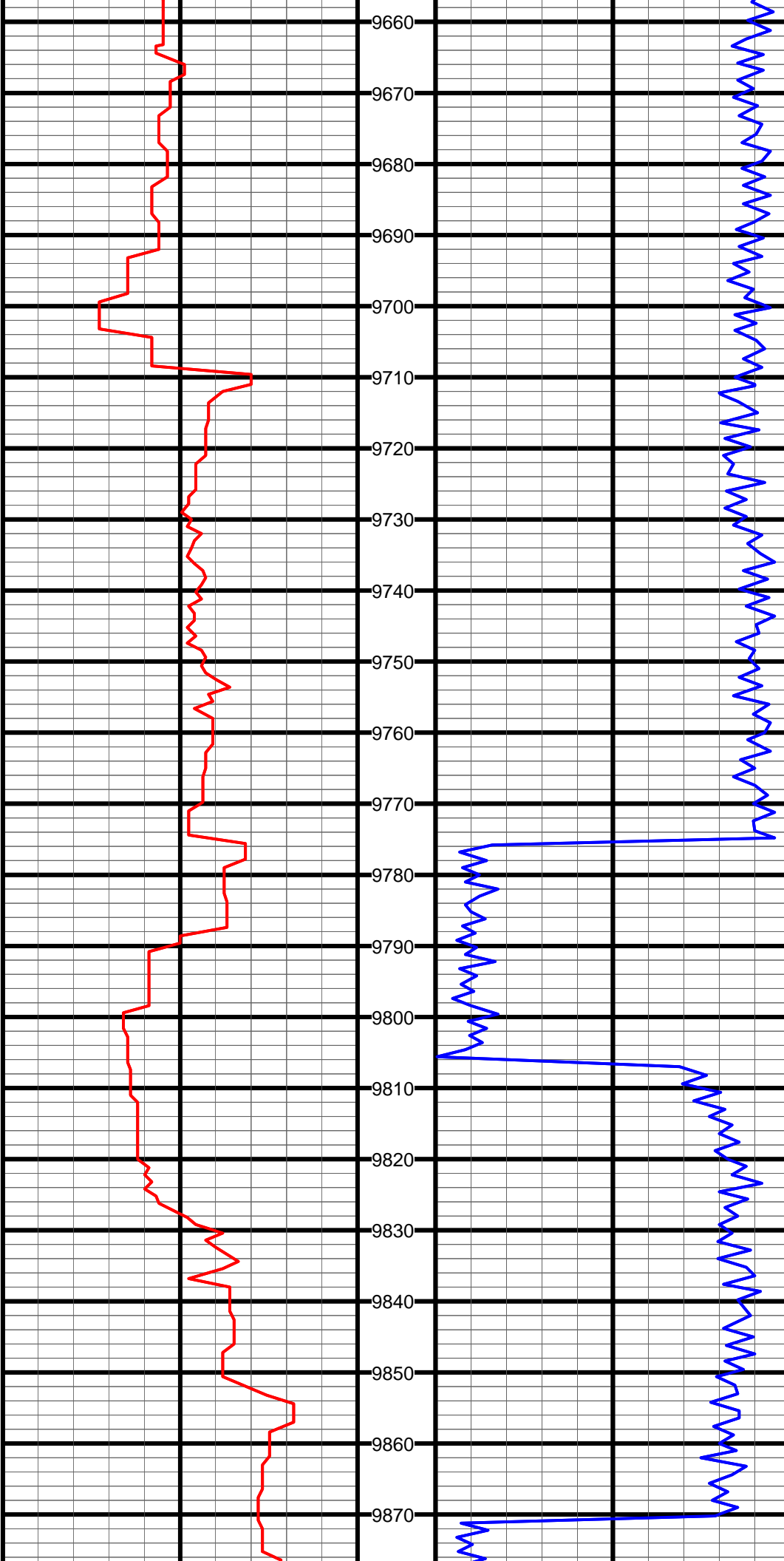
#107 MD:9370.0 TVD:7036.0 I:90.0 A:88.0 VS:2526.3



#108 MD:9465.0 TVD:7035.6 I:90.5 A:87.1 VS:2621.2

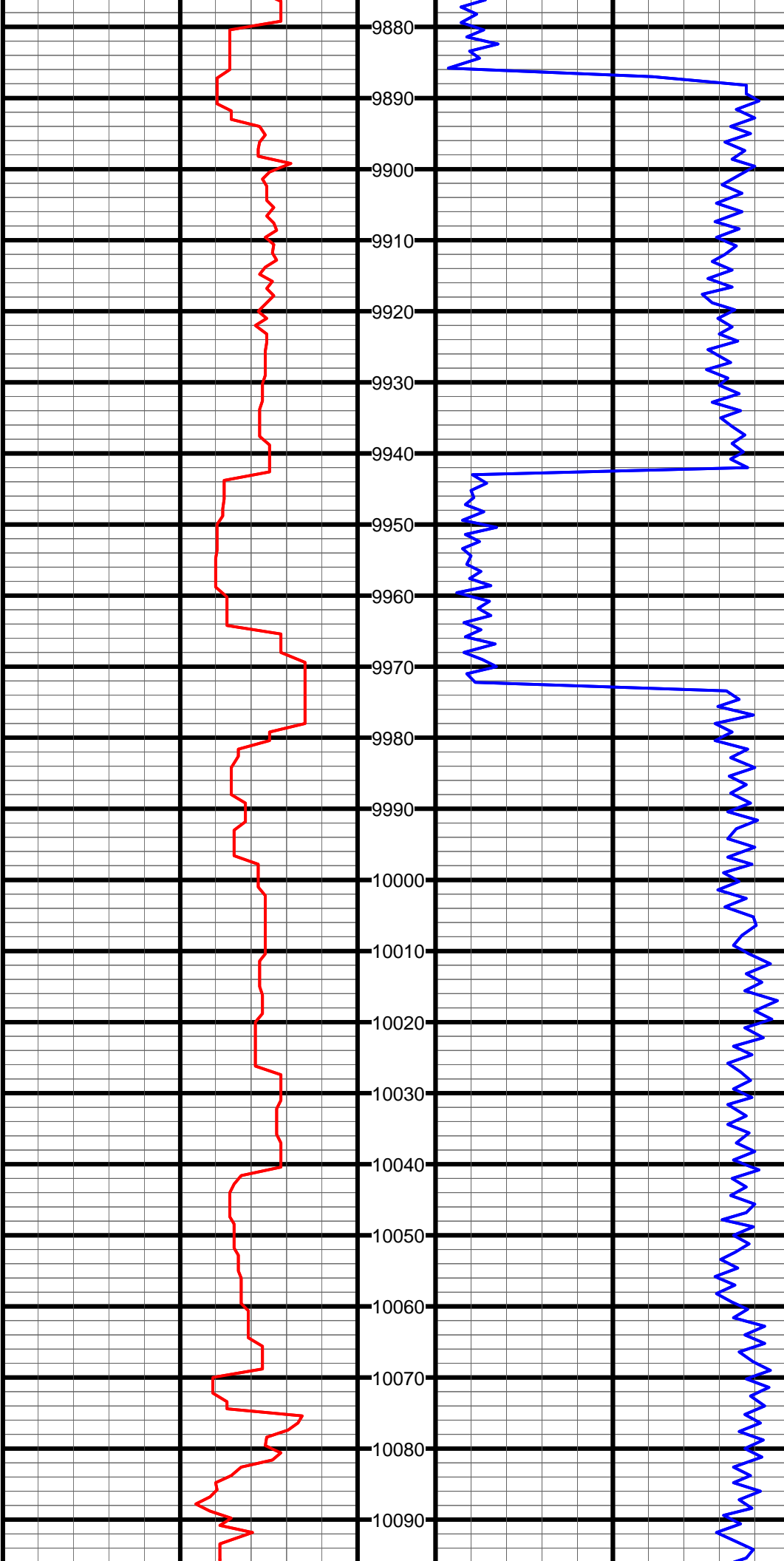
#109 MD:9560.0 TVD:7034.8 I:90.5 A:90.1 VS:2716.0

#110 MD:9655.0 TVD:7036.1 I:87.9 A:89.4 VS:2810.6



#111 MD:9750.0 TVD:7040.7 I:86.6 A:90.3 VS:2905.1

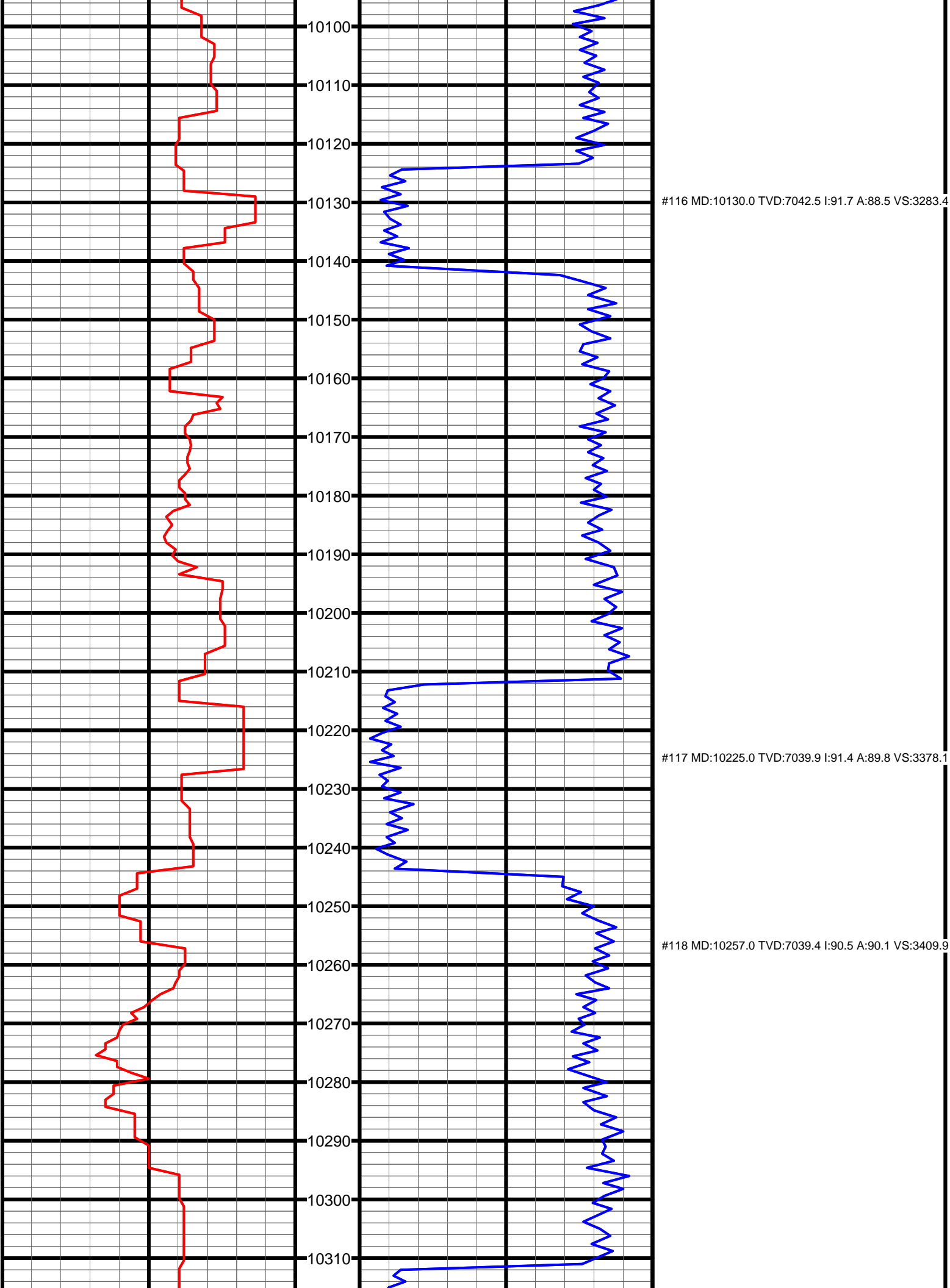
#112 MD:9845.0 TVD:7044.7 I:88.5 A:90.3 VS:2999.6

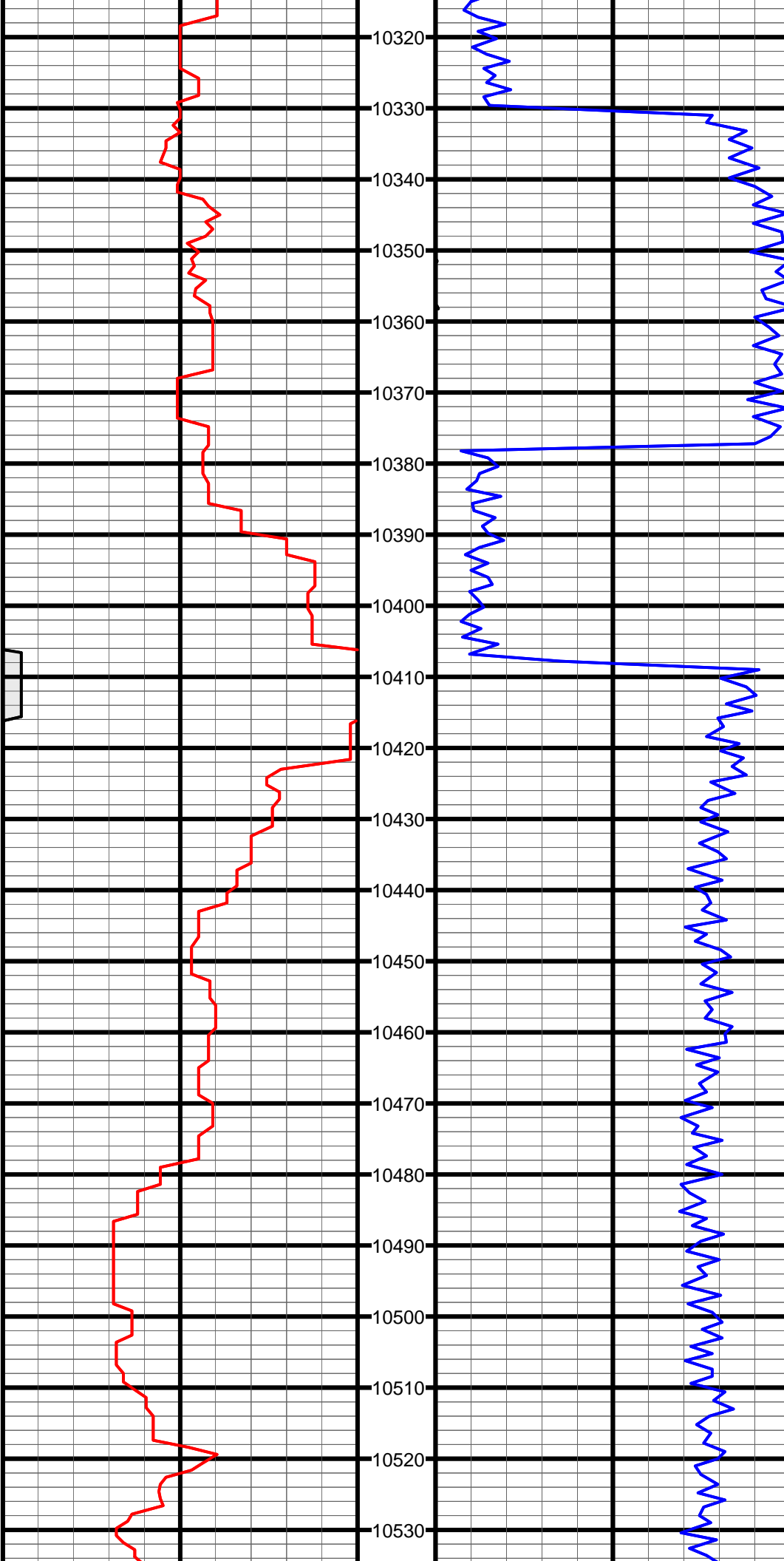


#113 MD:9940.0 TVD:7046.5 I:89.4 A:90.1 VS:3094.1

#114 MD:9974.0 TVD:7046.4 I:91.0 A:91.0 VS:3128.0

#115 MD:10035.0 TVD:7045.1 I:91.4 A:89.4 VS:3188.7

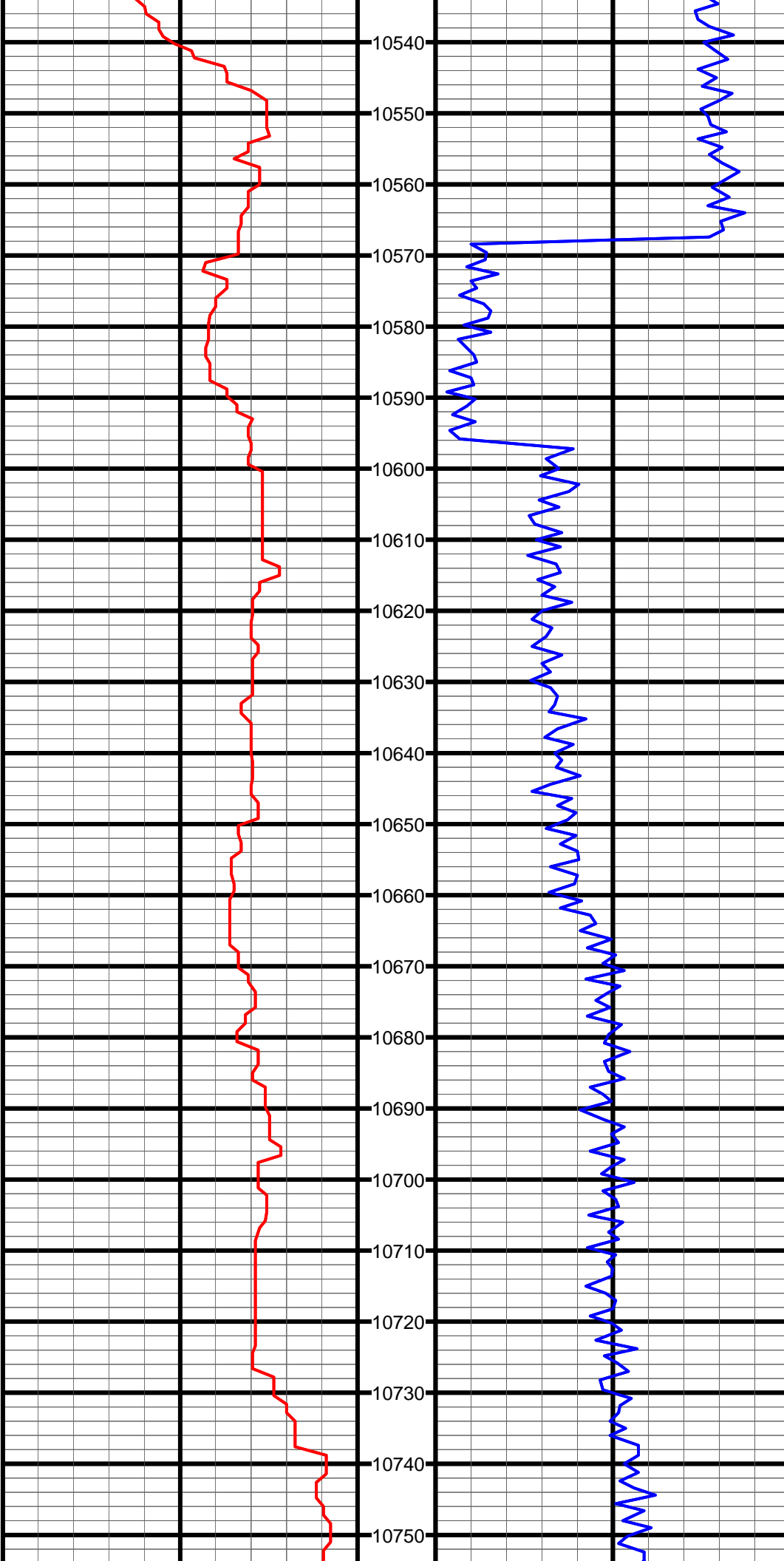




#119 MD:10320.0 TVD:7039.1 I:90.0 A:89.4 VS:3472.7

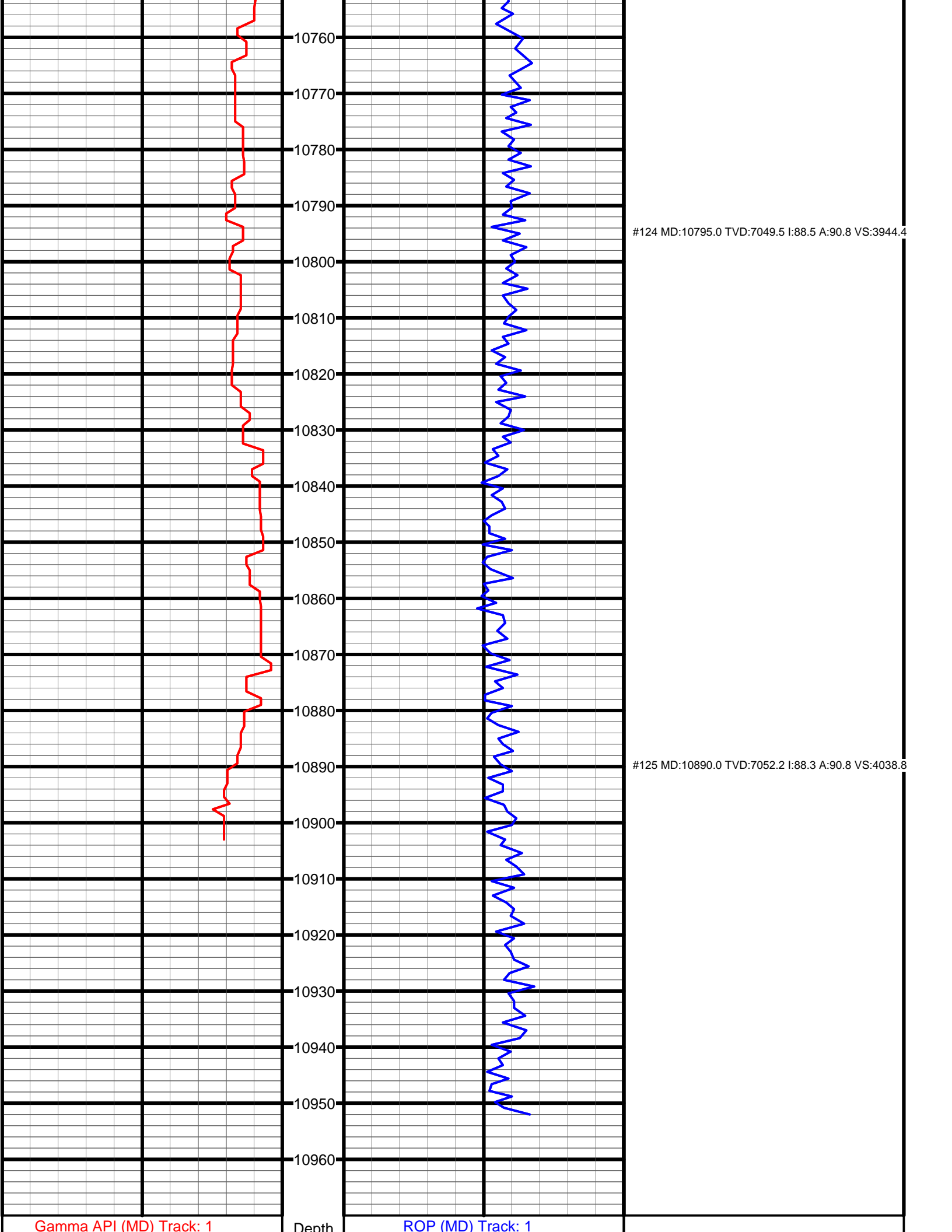
#120 MD:10415.0 TVD:7040.6 I:88.3 A:91.7 VS:3567.2

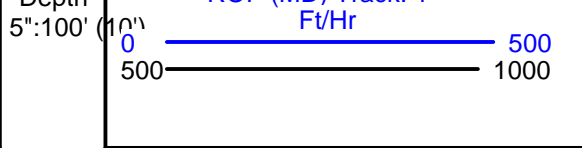
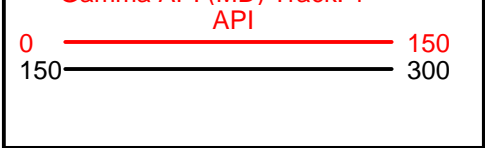
#121 MD:10510.0 TVD:7042.4 I:89.5 A:90.8 VS:3661.6



#122 MD:10605.0 TVD:7044.1 I:88.4 A:92.9 VS:3755.8

#123 MD:10700.0 TVD:7046.9 I:88.3 A:91.5 VS:3850.0







NIX P28-69HN FINAL 1" MD LOG
(Scale: 1"=100' (100'))

Company: NOBLE ENERGY INC.
Well: NIX P28-69HN
Field: WATTENBERG
Well ID: 05-123-34658
Job Number: RM-12709

State: COLORADO
County: WELD
Country: US

Location: LAT: 40° 12' 9.720" N ; LONG: 104° 53' 34.836" W
Operator 1: BOYD WOLFF
Operator 2: SCOTT SIMS

Elev KB: 4,818'
Elev DF: N/A
Elev GL: 4,794'

Comment 1: FINAL 1" MD GAMMA LOG
Comment 2: TIE INTO SURFACE CASING AT 665'
Comment 3:
Comment 4:
Comment 5:

Hole Data			Casing Record		
Size	From	To	Size	From	To
13 3/4"	0	675'	9 5/8"	0	665'
8 3/4"	675'	7,433'	7"	665'	7,423'
6 1/8"	7,433'	10,953'			
Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	5607 XXT	5607 XXT	5607 XXT		
Cal Factor	3.33	3.33	1.93		
Gamma Offset	37'	45'	49'		
Start Depth	675'	6,277'	7,433'		
Start Date	9/26/2012	9/27/2012	9/30/2012		
Start Time	04:00	20:30	23:30		
End Depth	6,277'	7,433'	10,953'		
End Date	9/27/2012	9/29/2012	10/2/2012		
End Time	19:00	15:30	11:30		

