



Timbro Federal LD18-74HN FINAL 5" MD
(Scale: 5":100' (10'))

Company: NOBLE ENERGY INC

Well: TIMBRO FEDERAL LD18-74HN

Field: WILDCAT

Well ID: 05-123-36263

Job Number: RM-13139

Location: LAT: 40° 44' 40.121 N / LONG: 103° 54' 15.020 W

Operator 1: CHRIS ABBOTT

Operator 2: TROY MARDESEN

State: COLORADO

County: WELD

Country: USA

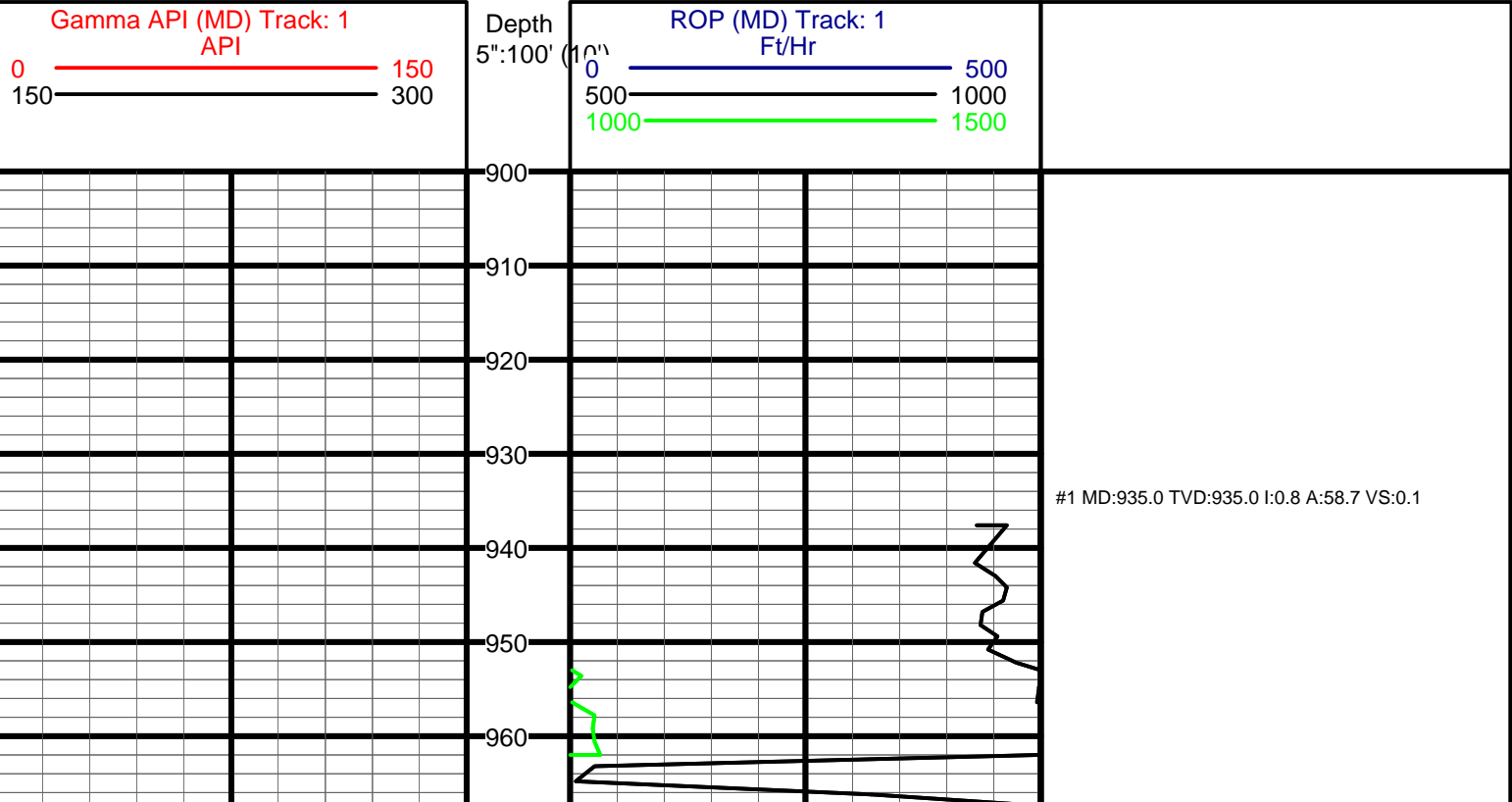
Elev KB: 4917

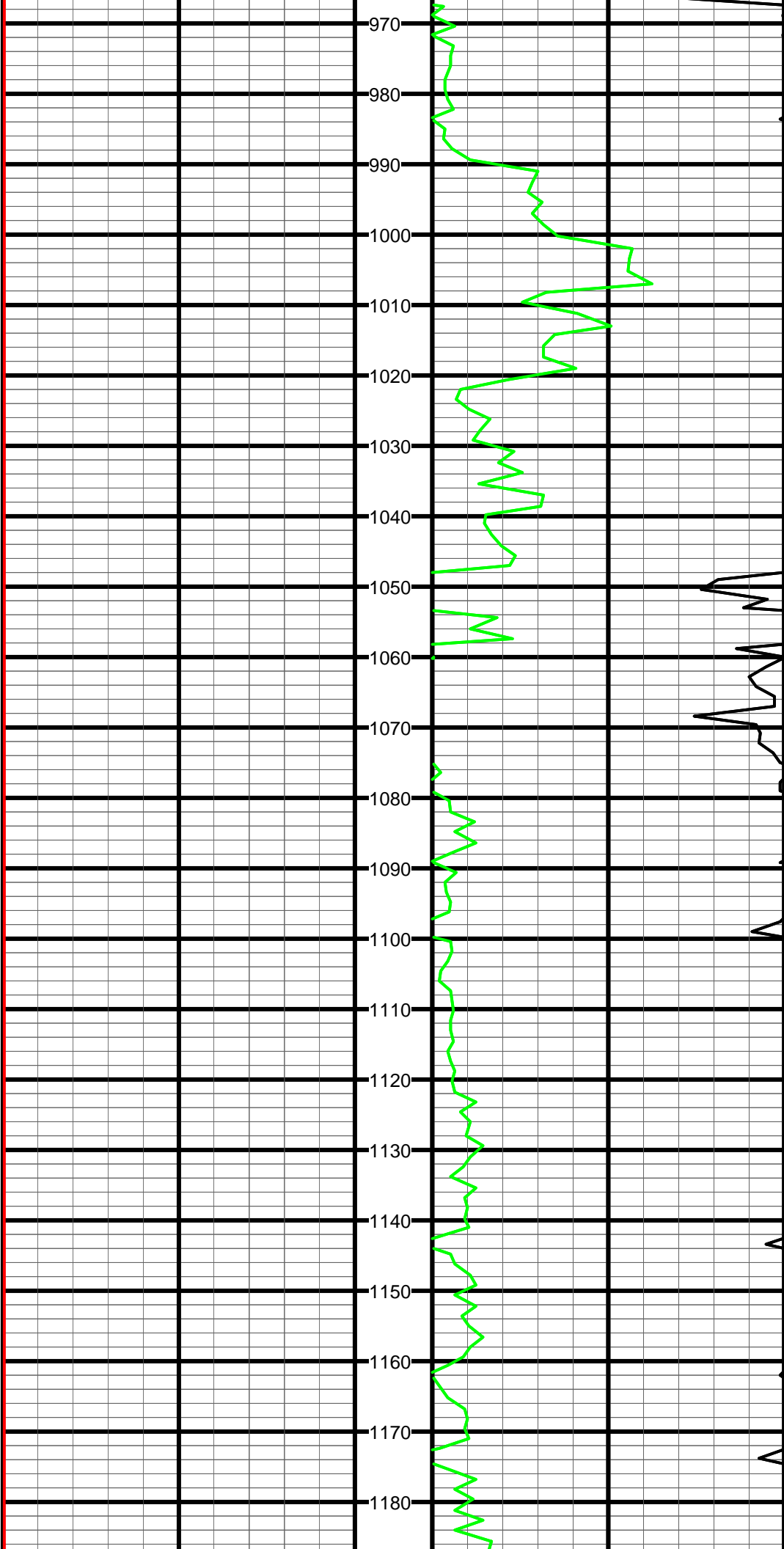
Elev DF: 30

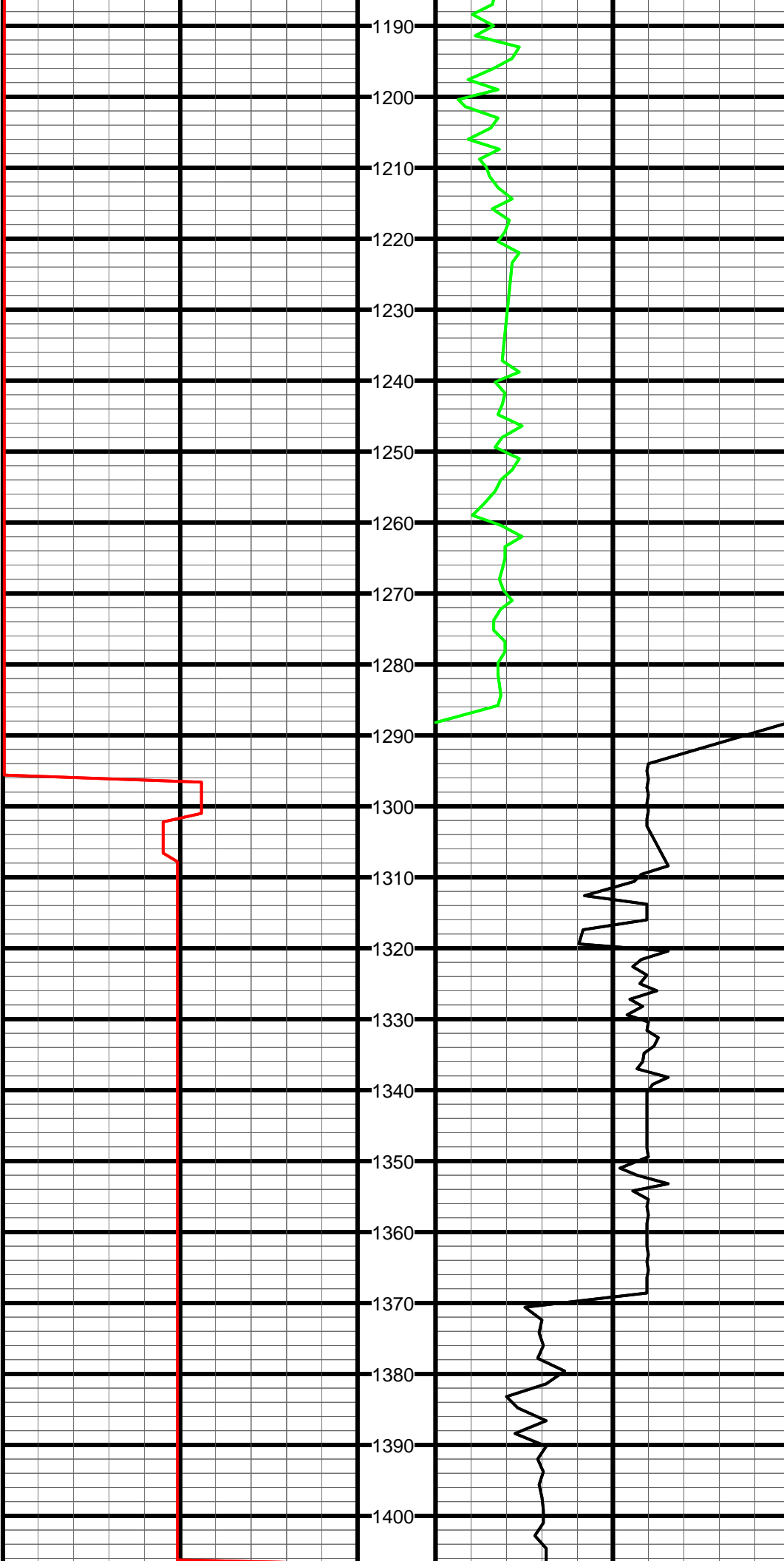
Elev GL: 4887

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

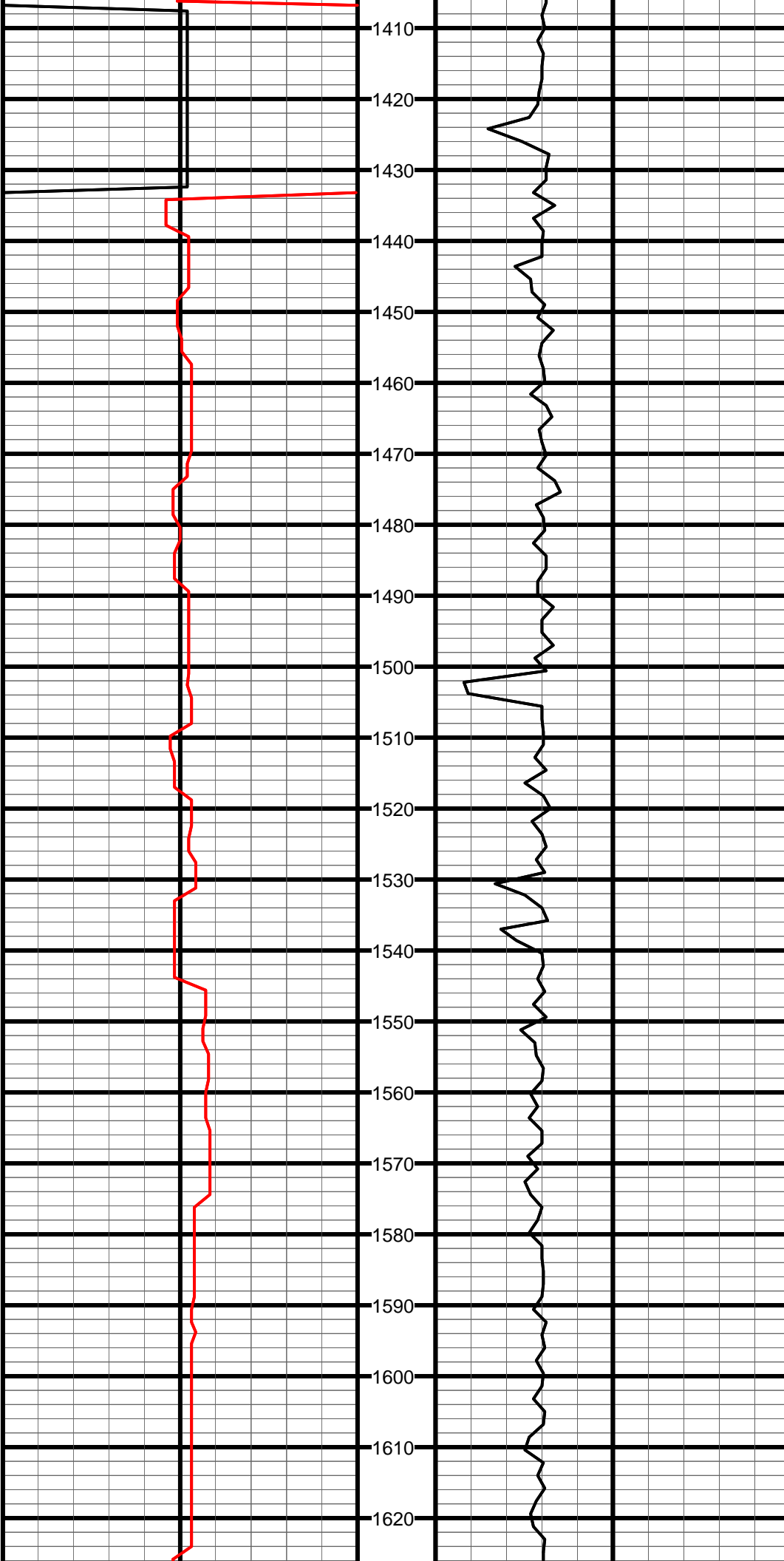
Hole Data			Casing Record		
Size	From	To	Size	From	To
13 3/4"	0'	899'	9 5/8"	0'	892'
8 3/4"	899'	6,365'	7"	892'	6,365'
6 1/8"	6,365'	10,271'			
Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	150	150	150		
Cal Factor	3.994	3.994	2.319		
Gamma Offset	36	36	41		
Start Depth	899'	5,161'	6,365'		
Start Date	2/21/2013	2/23/2013	2/25/2013		
Start Time	22:00	02:00	01:30		
End Depth	5,161'	6,365'	10,271'		
End Date	2/22/2013	2/23/2013	2/26/2013		
End Time	15:00	14:00	18:00		



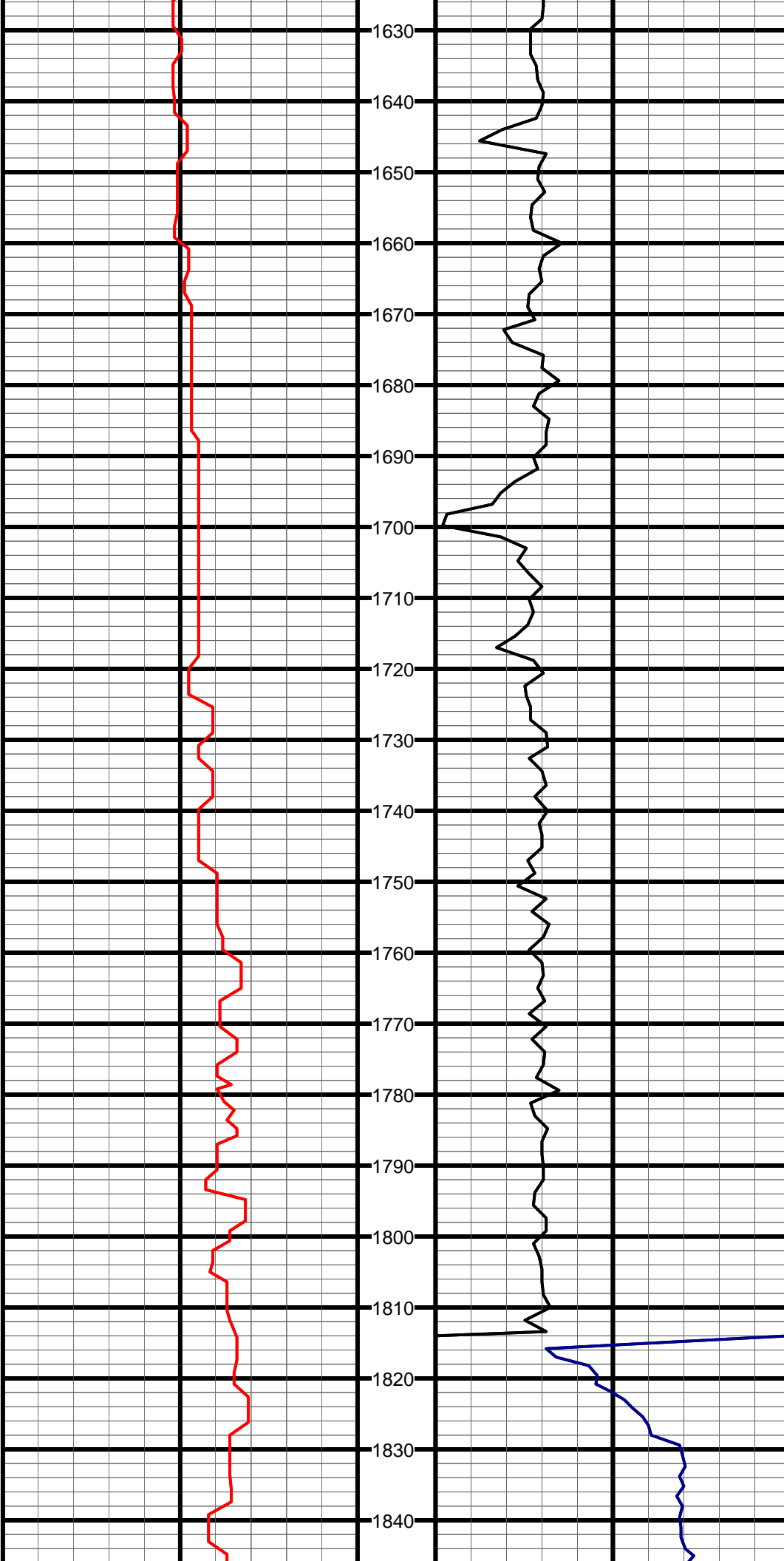




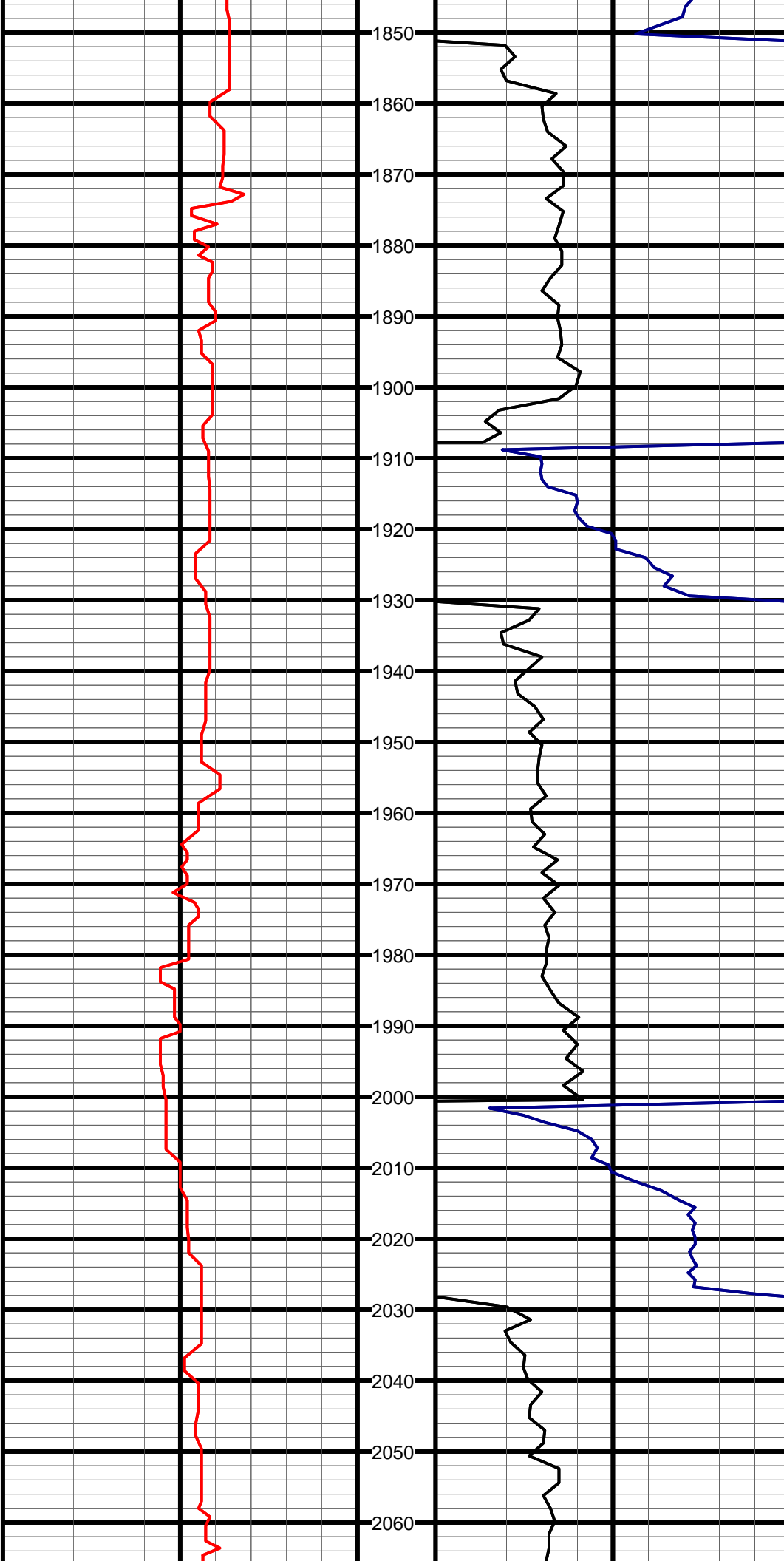
#2 MD:1215.0 TVD:1215.0 I:0.5 A:43.5 VS:1.8



#3 MD:1493.0 TVD:1493.0 I:0.5 A:64.8 VS:3.1



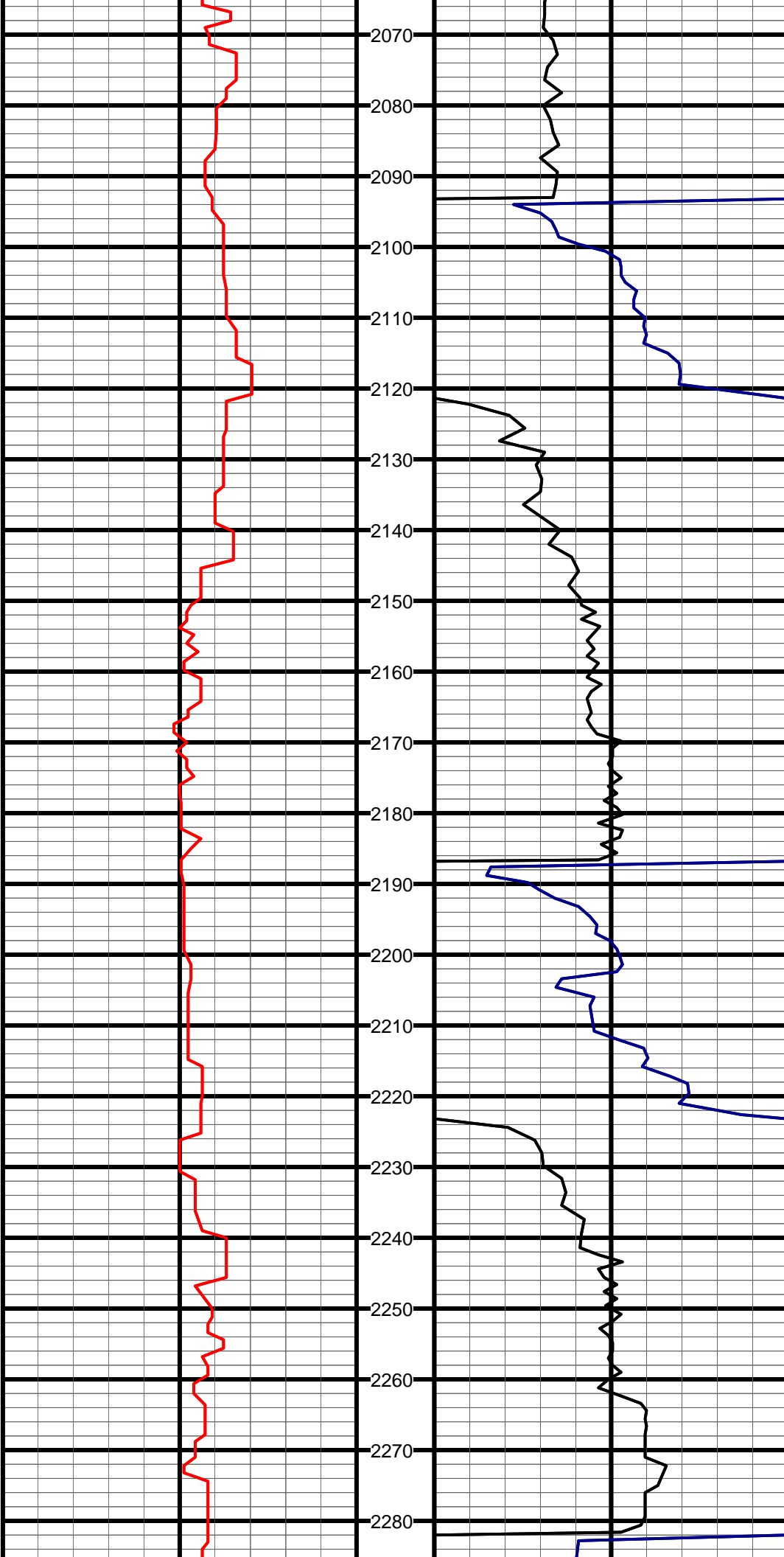
#4 MD:1772.0 TVD:1772.0 I:0.6 A:65.9 VS:4.1



#5 MD:1866.0 TVD:1865.9 I:3.2 A:193.7 VS:1.7

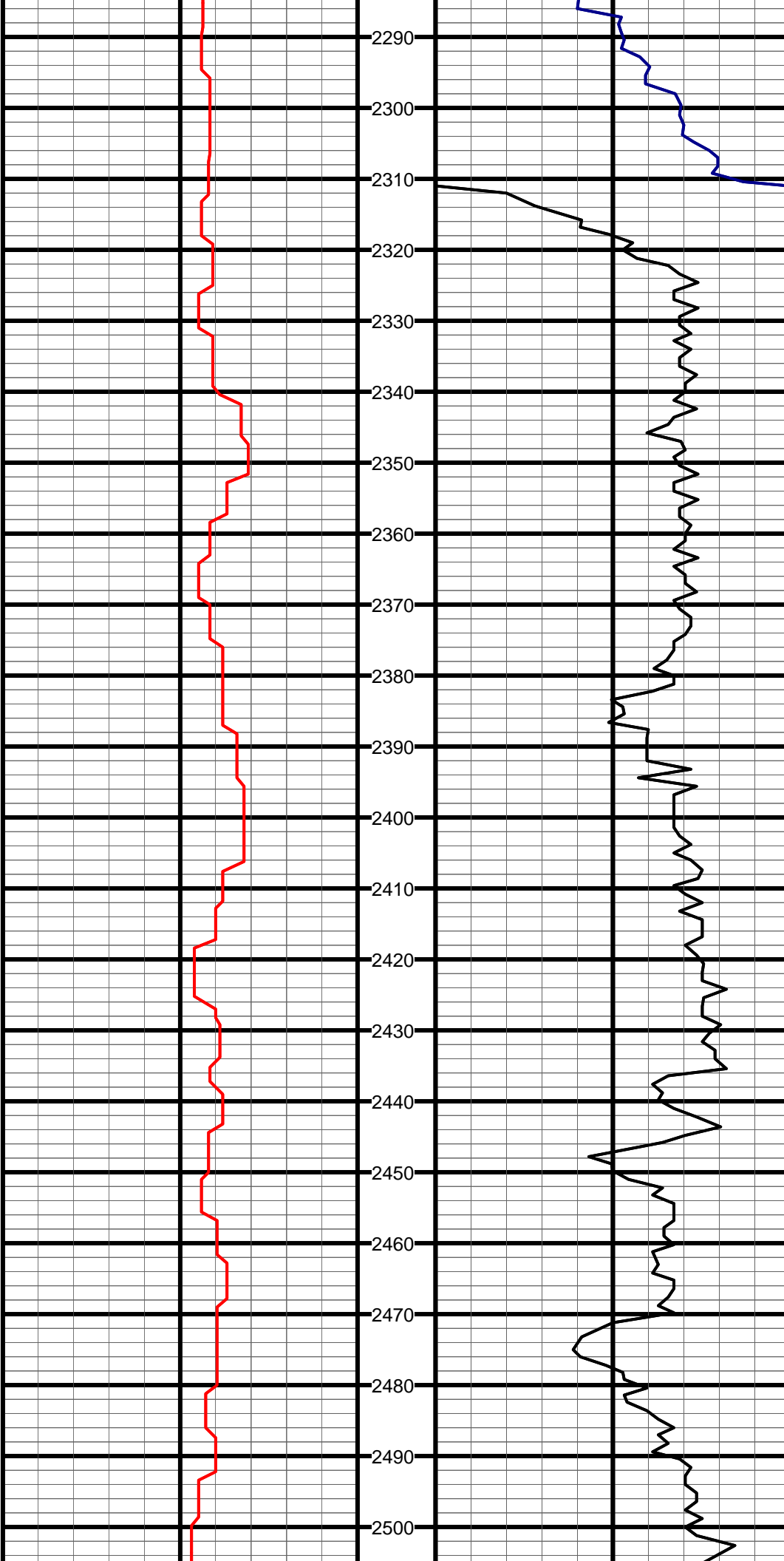
#6 MD:1960.0 TVD:1959.7 I:4.3 A:188.4 VS:-4.2

#7 MD:2055.0 TVD:2054.3 I:6.2 A:206.1 VS:-12.1



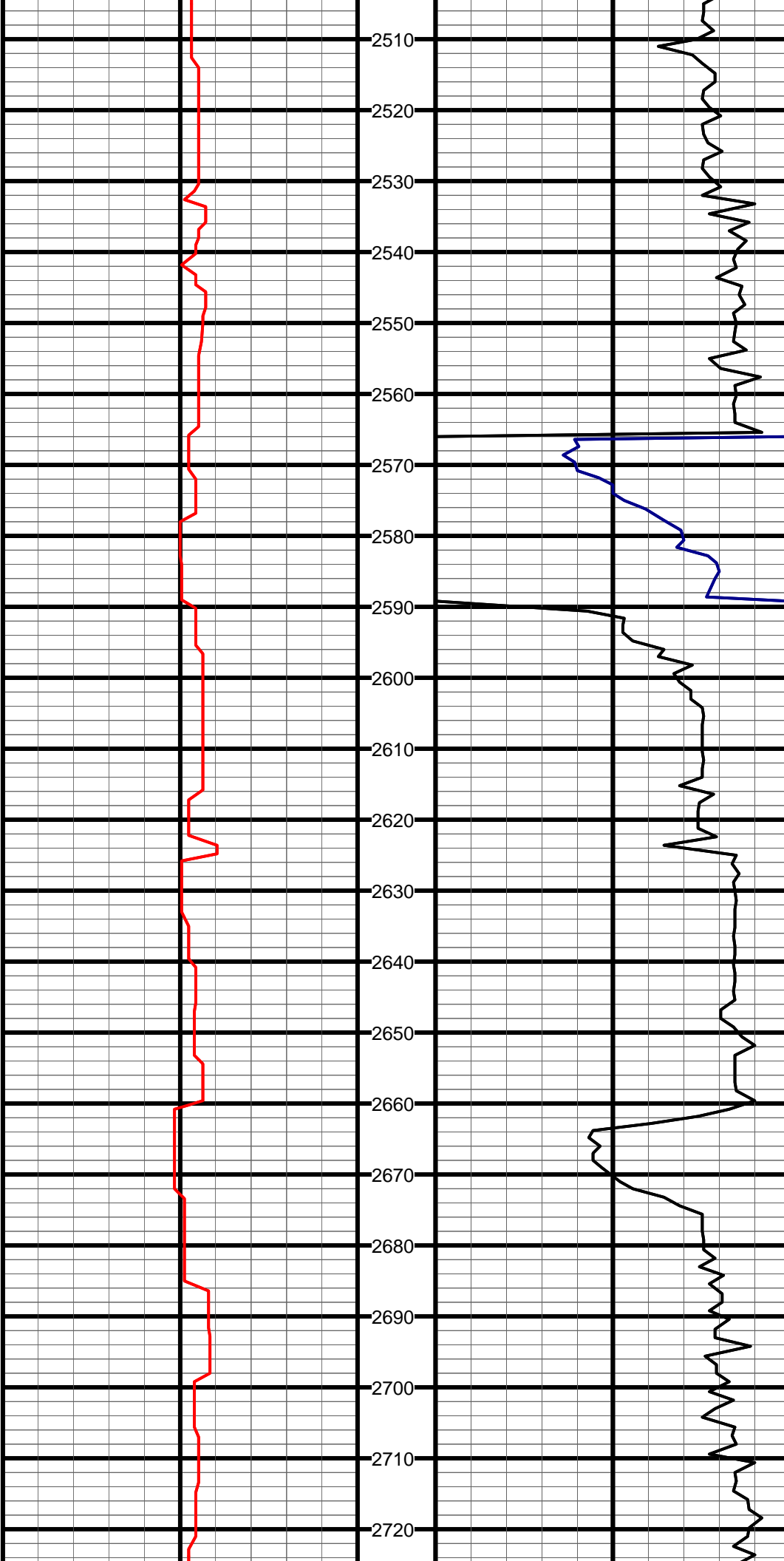
#8 MD:2149.0 TVD:2147.6 I:8.2 A:214.8 VS:-21.8

#9 MD:2242.0 TVD:2239.3 I:10.6 A:219.7 VS:-33.2



#10 MD:2337.0 TVD:2332.3 I:12.8 A:218.4 VS:-47.3

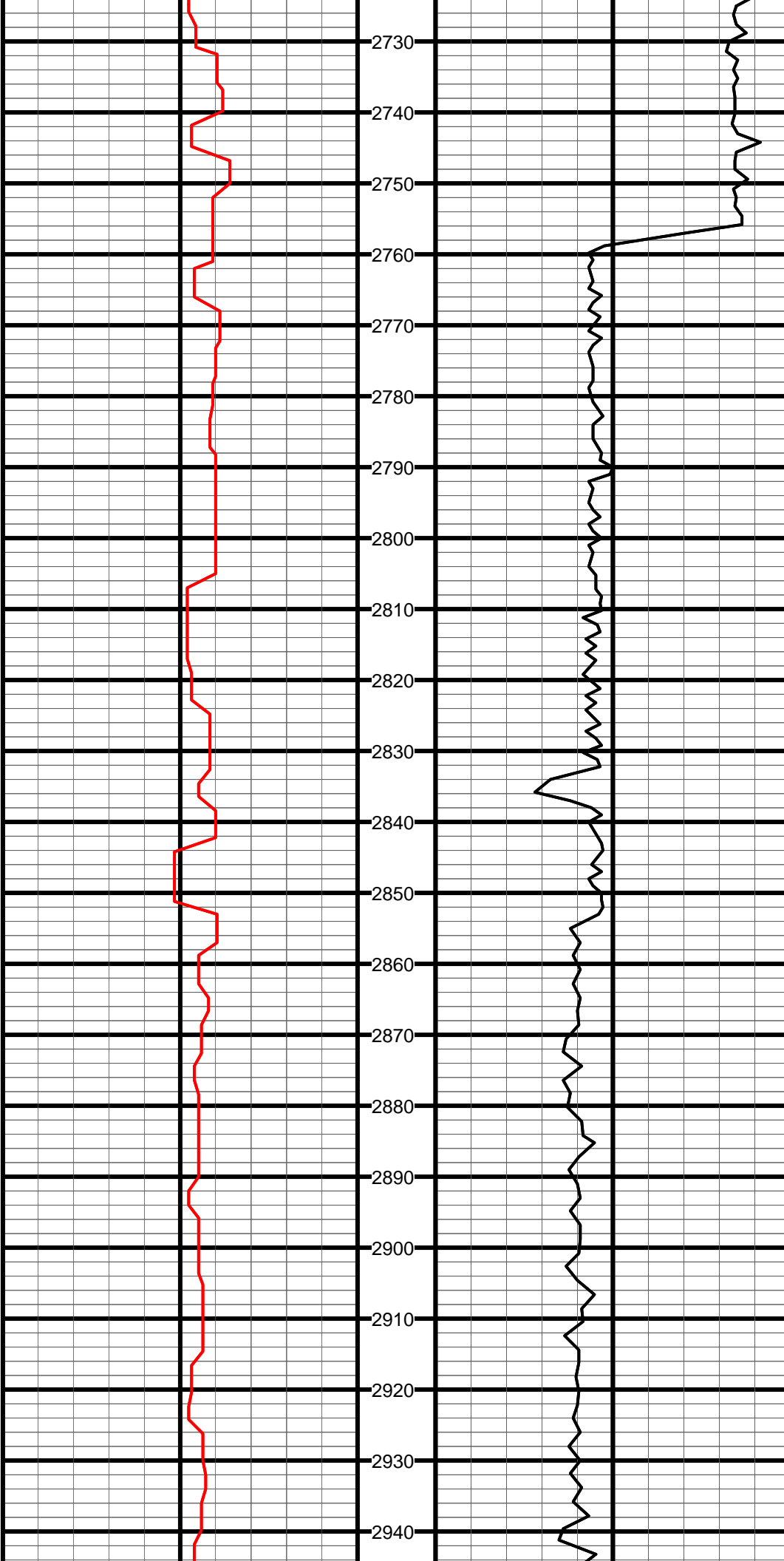
#11 MD:2430.0 TVD:2423.1 I:12.2 A:219.3 VS:-62.2



#12 MD:2525.0 TVD:2516.1 I:11.6 A:218.3 VS:-76.6

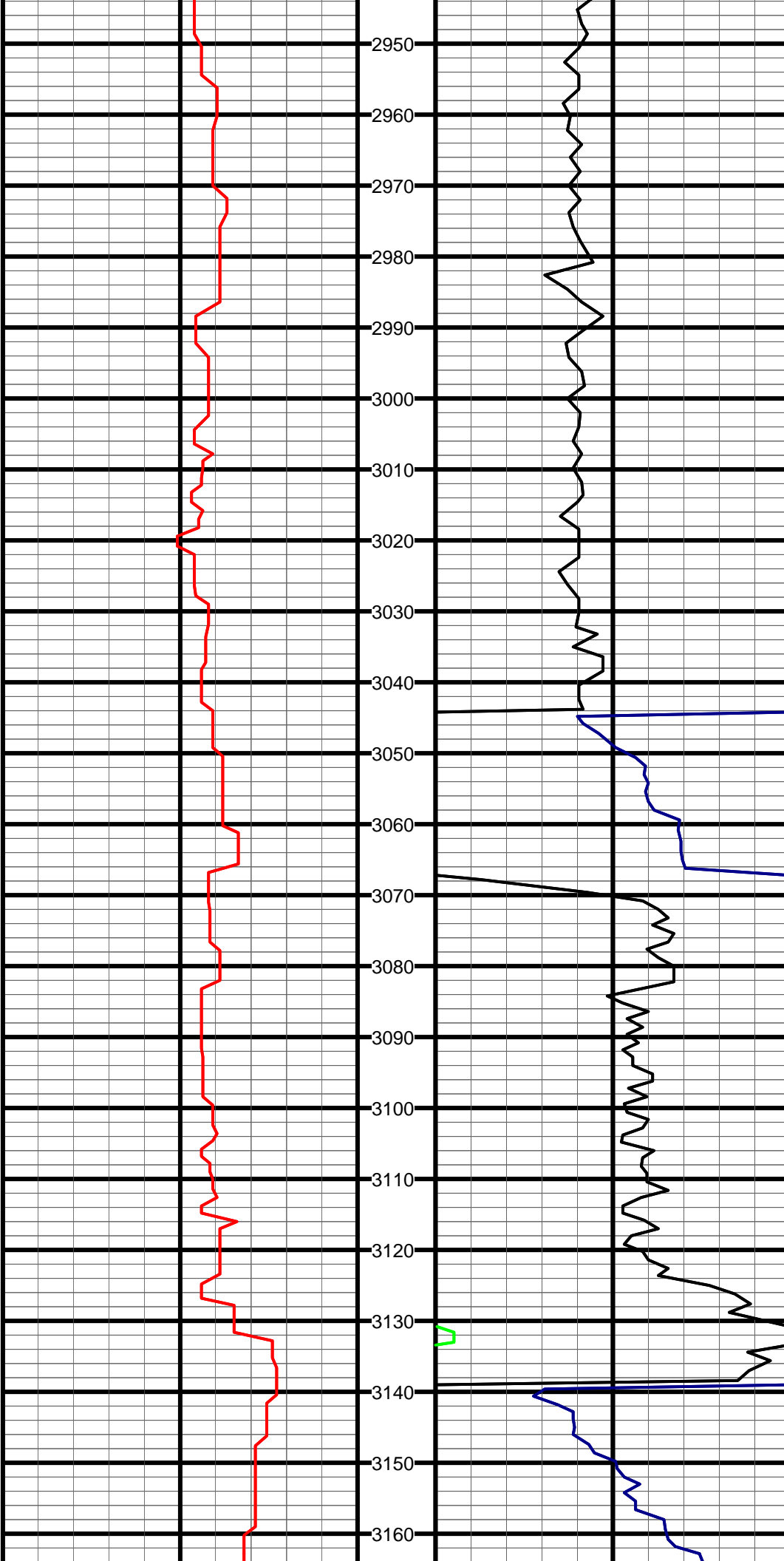
#13 MD:2620.0 TVD:2609.0 I:12.6 A:221.6 VS:-91.0

#14 MD:2715.0 TVD:2701.6 I:12.9 A:222.5 VS:-105.6



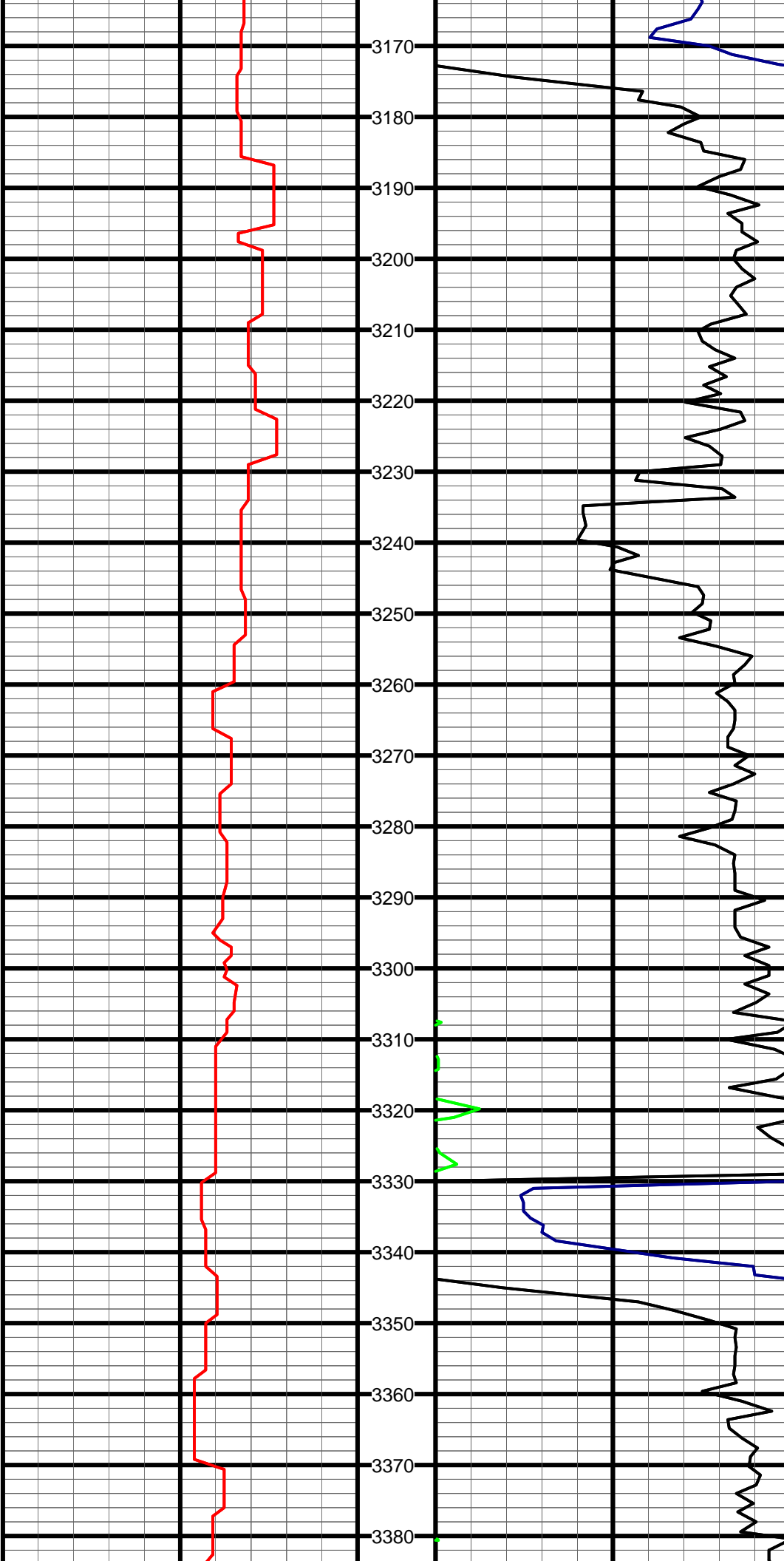
#15 MD:2810.0 TVD:2794.3 I:12.6 A:221.6 VS:-120.2

#16 MD:2905.0 TVD:2887.1 I:12.3 A:222.3 VS:-134.5



#17 MD:3000.0 TVD:2980.0 I:11.6 A:221.6 VS:-148.2

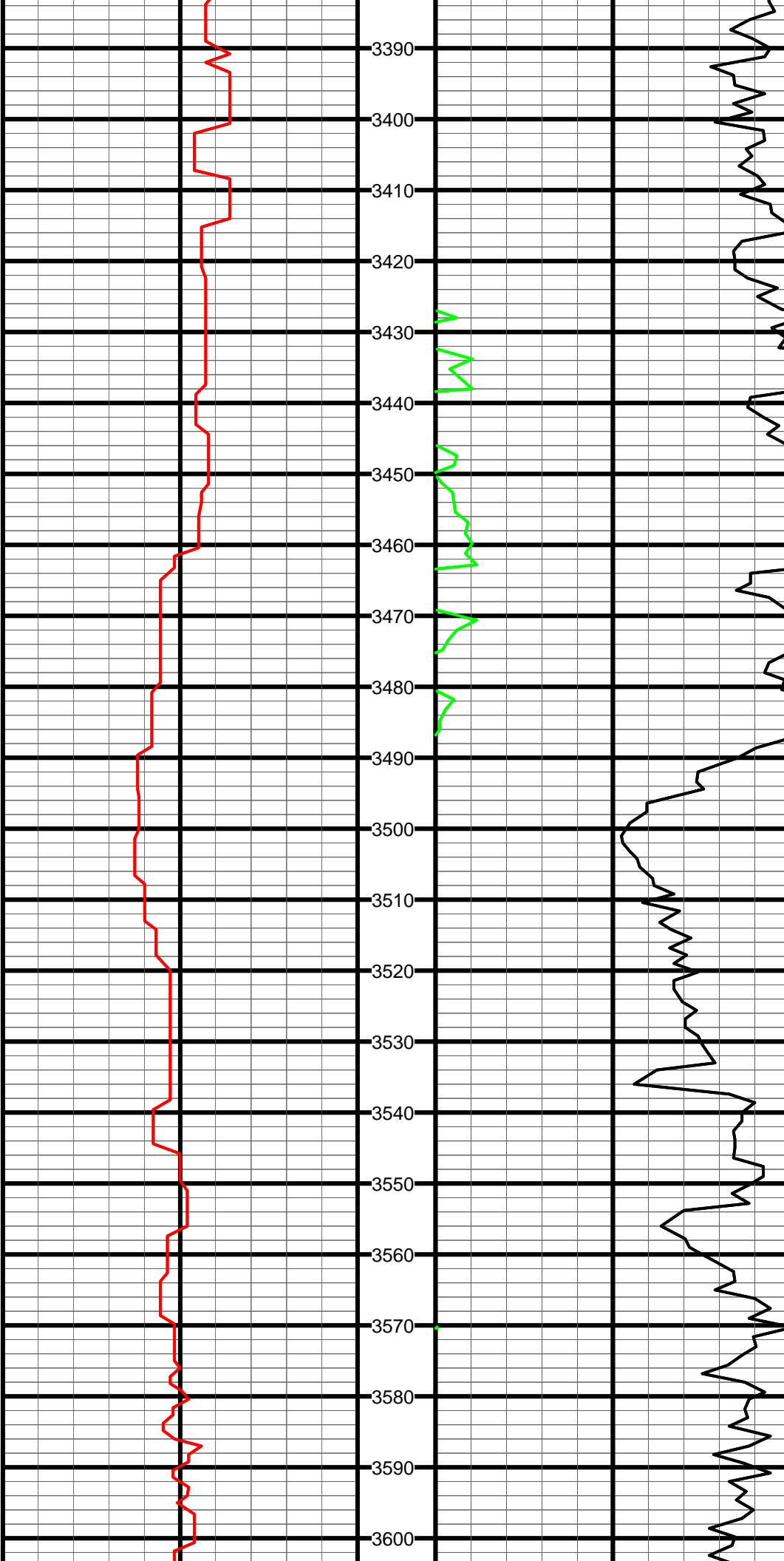
#18 MD:3095.0 TVD:3073.4 I:9.5 A:228.3 VS:-159.8



#19 MD:3190.0 TVD:3167.6 I:5.5 A:237.1 VS:-166.8

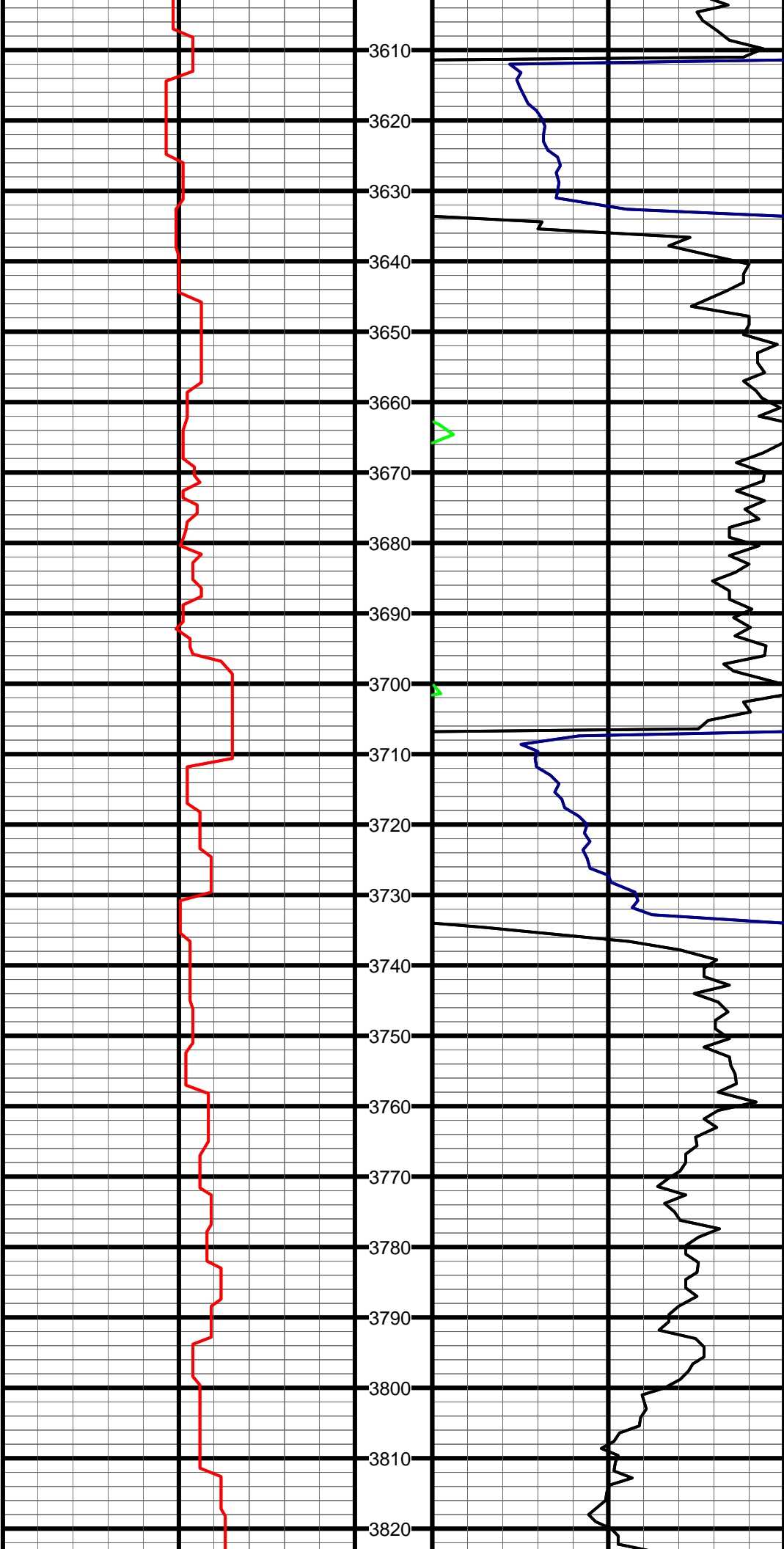
#20 MD:3285.0 TVD:3262.1 I:5.5 A:240.4 VS:-171.0

#21 MD:3380.0 TVD:3356.8 I:4.7 A:233.7 VS:-175.1



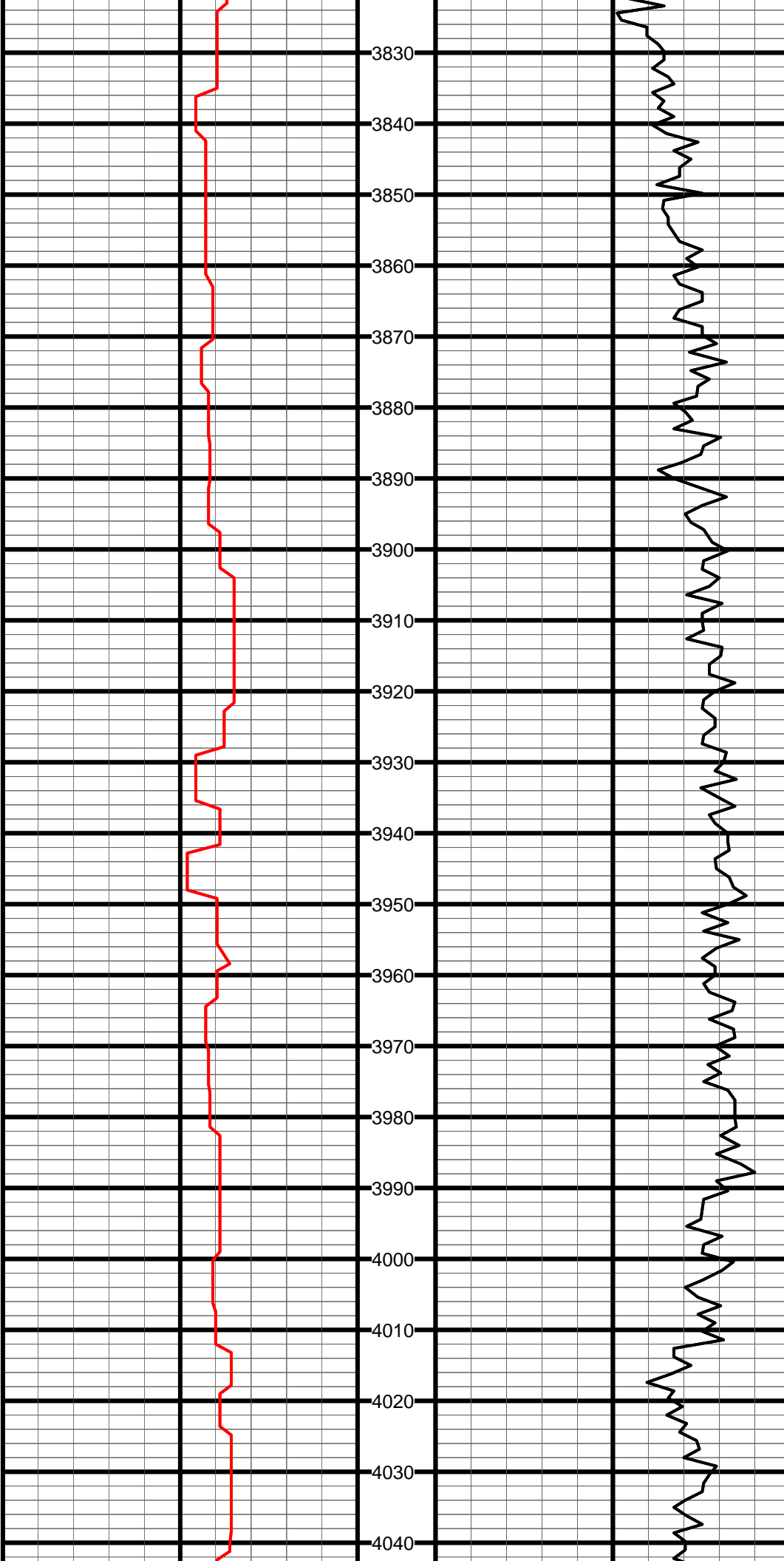
#22 MD:3475.0 TVD:3451.4 I:4.7 A:234.4 VS:-179.2

#23 MD:3569.0 TVD:3545.1 I:4.7 A:236.4 VS:-183.2



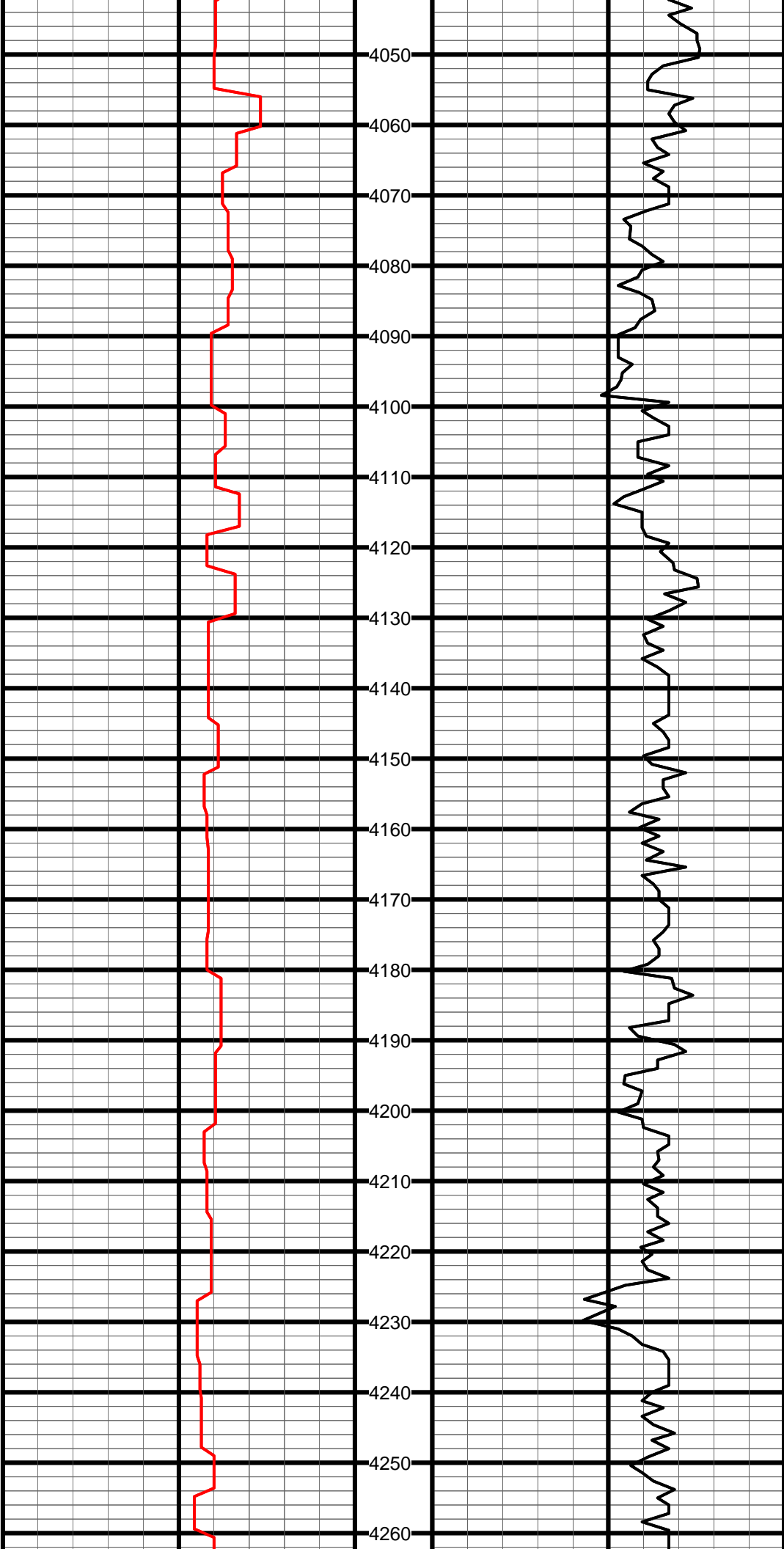
#24 MD:3664.0 TVD:3639.9 I:3.0 A:246.9 VS:-185.9

#25 MD:3759.0 TVD:3734.8 I:1.7 A:206.0 VS:-188.0



#26 MD:3854.0 TVD:3829.8 I:1.7 A:207.6 VS:-190.4

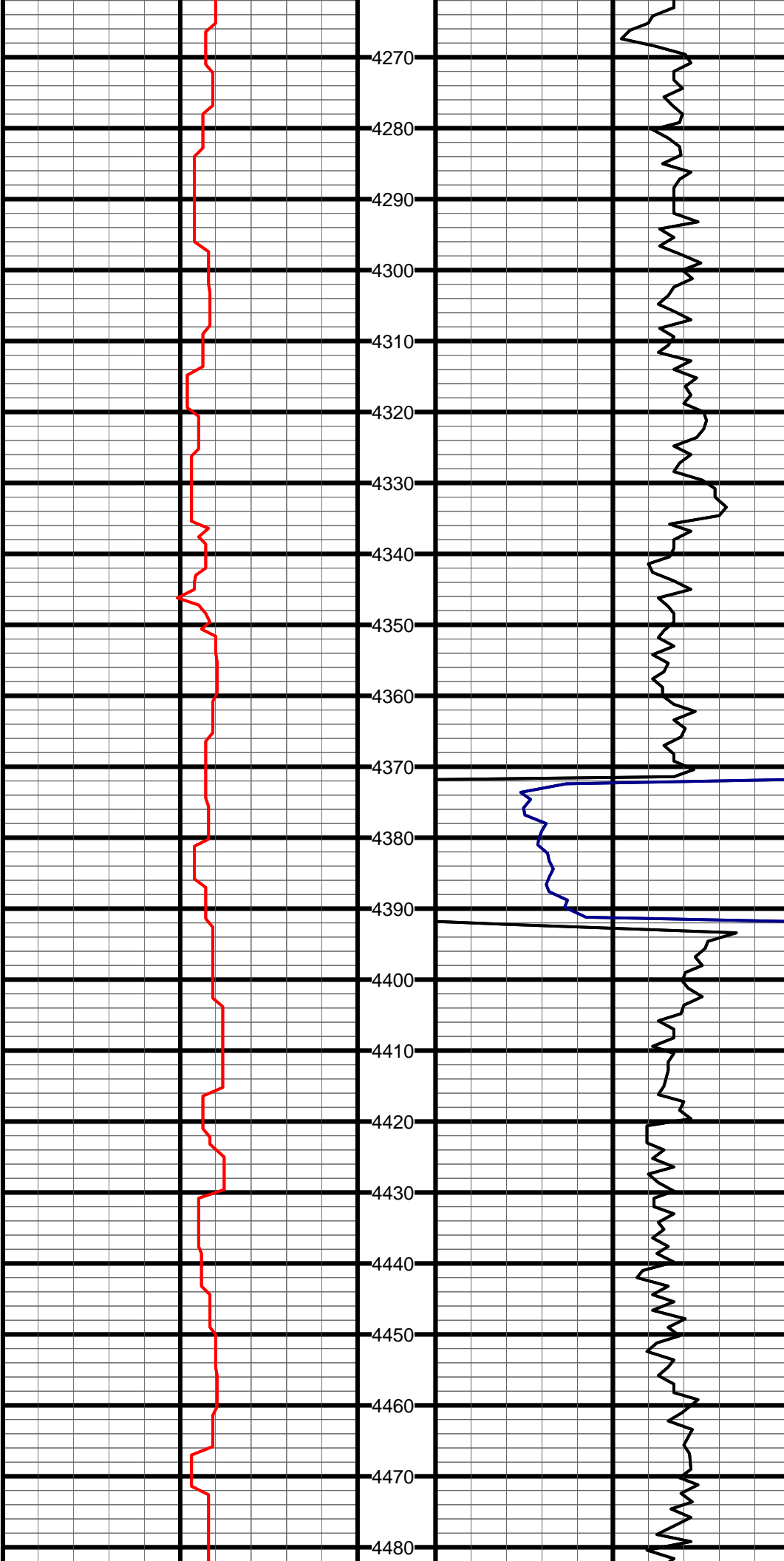
#27 MD:3949.0 TVD:3924.7 I:1.3 A:224.8 VS:-192.3



#28 MD:4044.0 TVD:4019.7 I:1.0 A:233.4 VS:-193.5

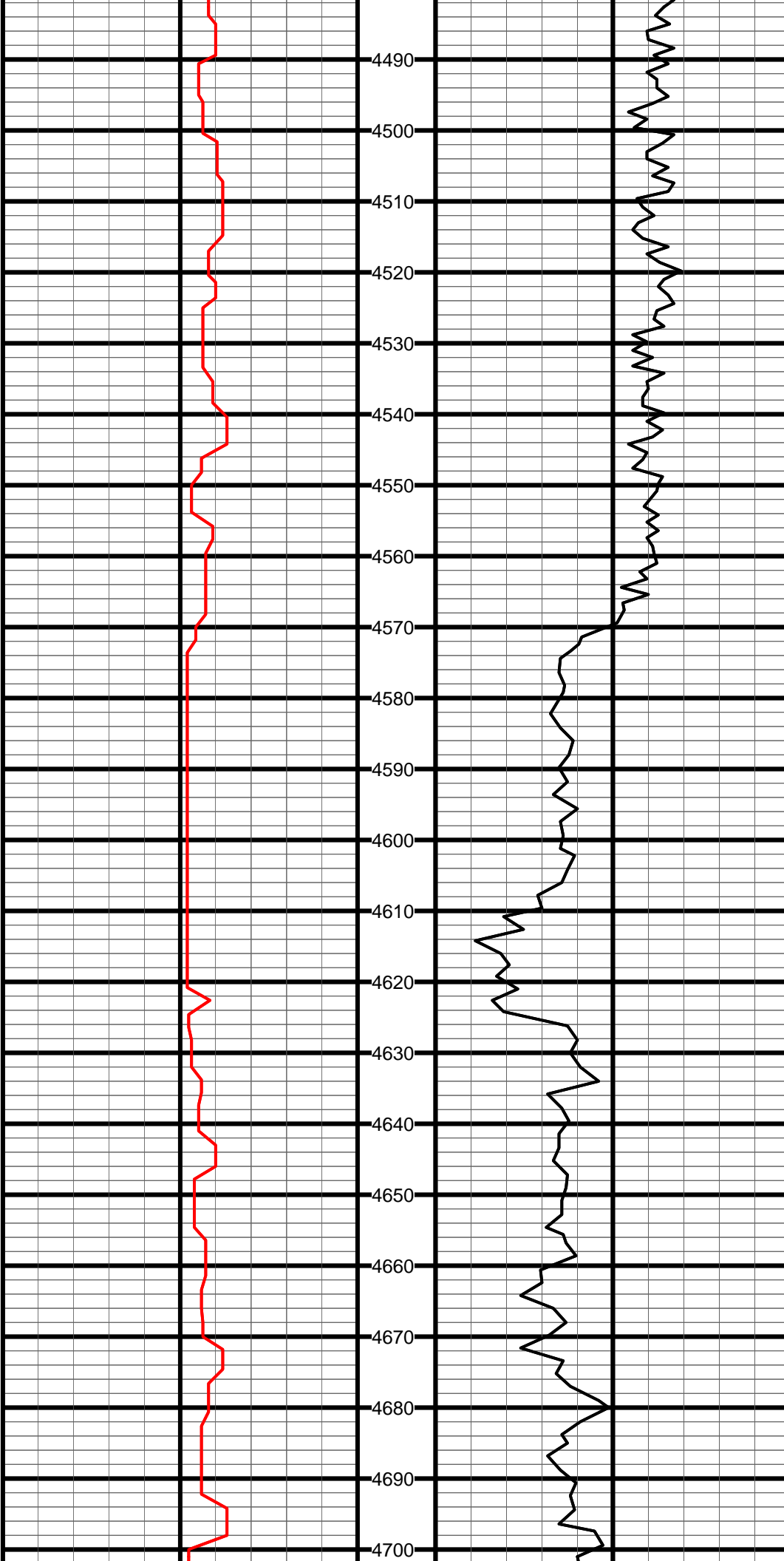
#29 MD:4139.0 TVD:4114.7 I:1.0 A:237.3 VS:-194.3

#30 MD:4234.0 TVD:4209.7 I:1.2 A:245.5 VS:-195.1



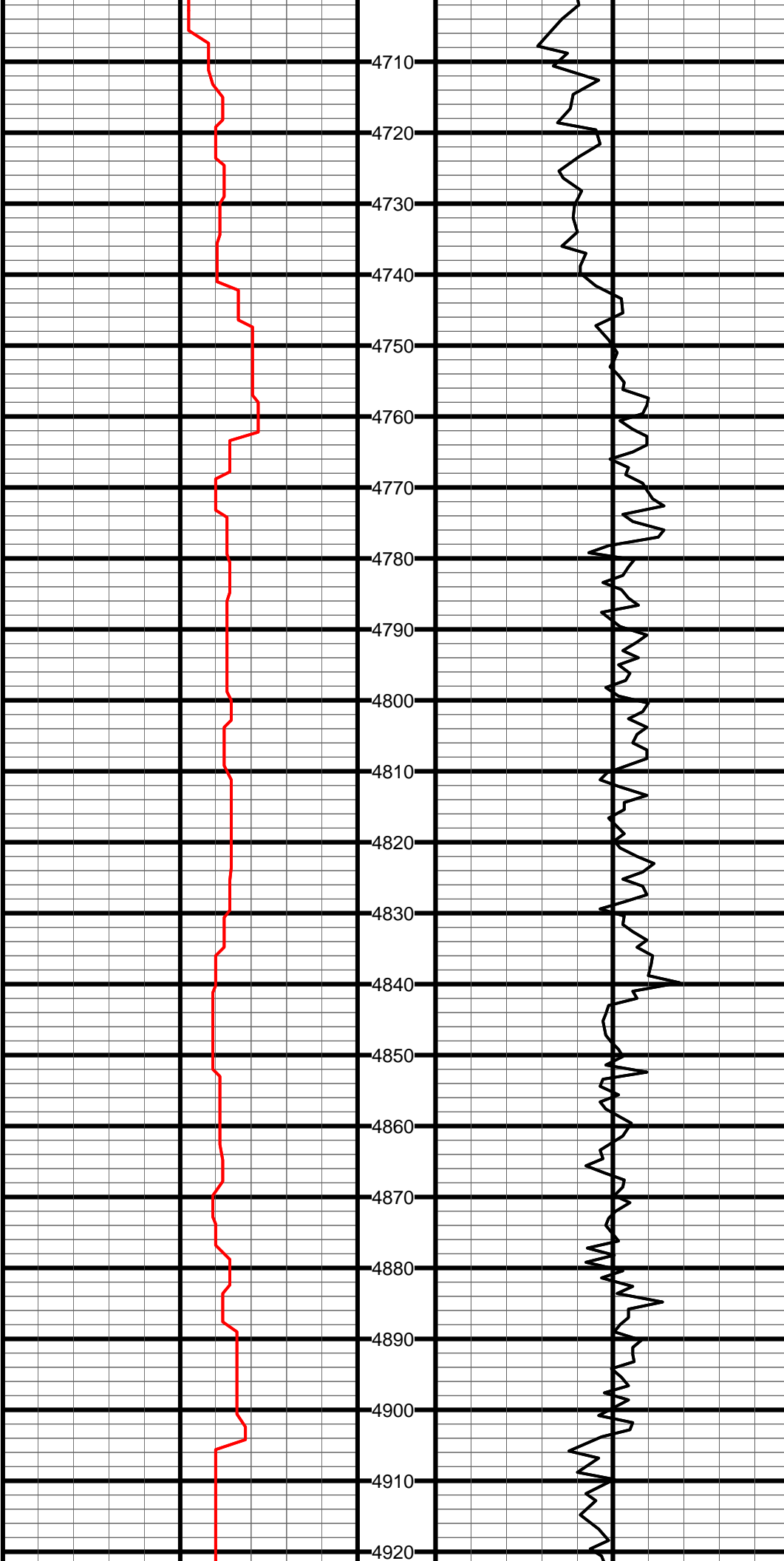
#31 MD:4328.0 TVD:4303.7 I:1.4 A:250.4 VS:-195.8

#32 MD:4423.0 TVD:4398.7 I:0.8 A:219.0 VS:-196.6



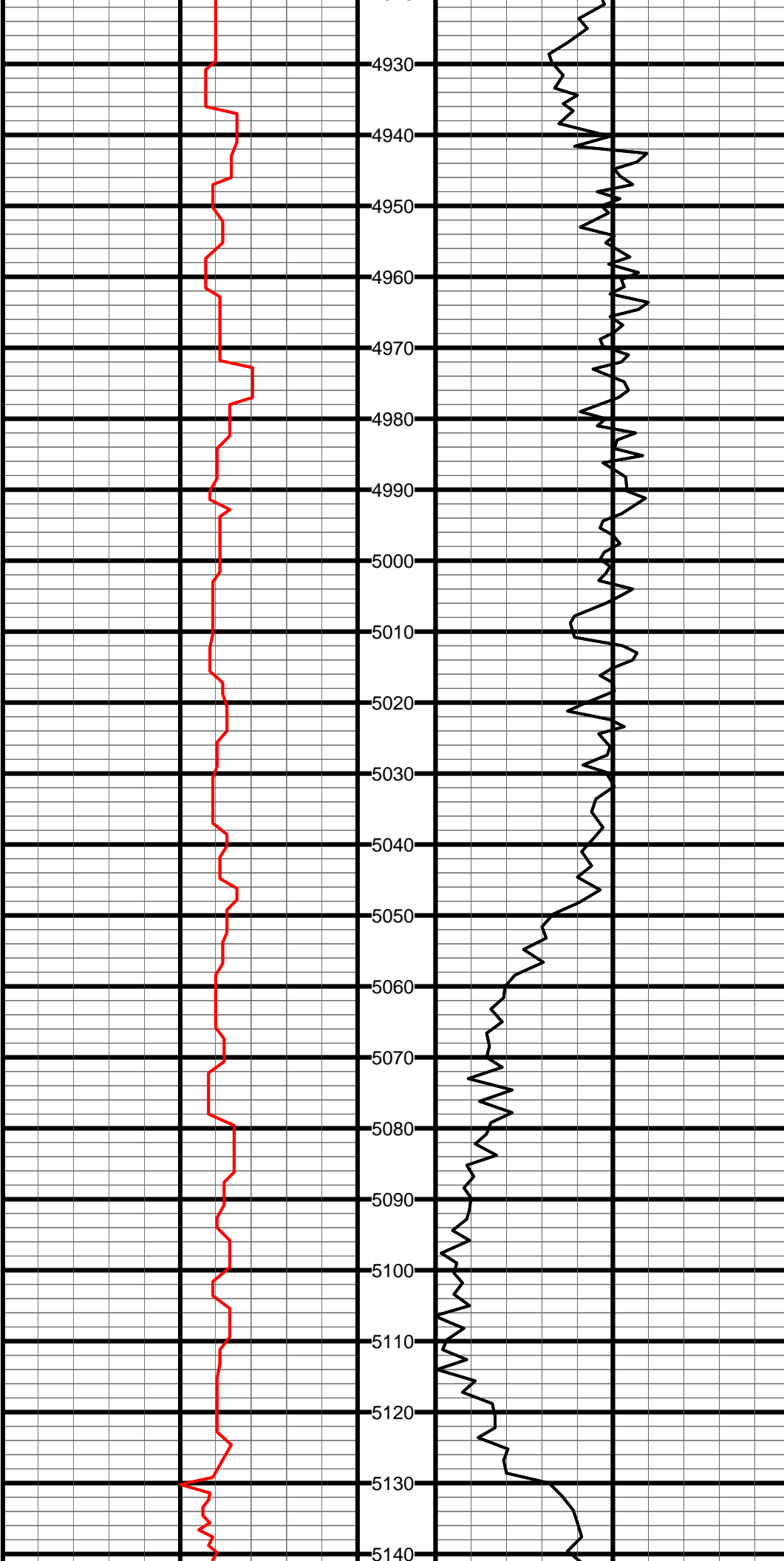
#33 MD:4518.0 TVD:4493.6 I:0.9 A:206.7 VS:-197.7

#34 MD:4613.0 TVD:4588.6 I:1.1 A:230.1 VS:-198.9



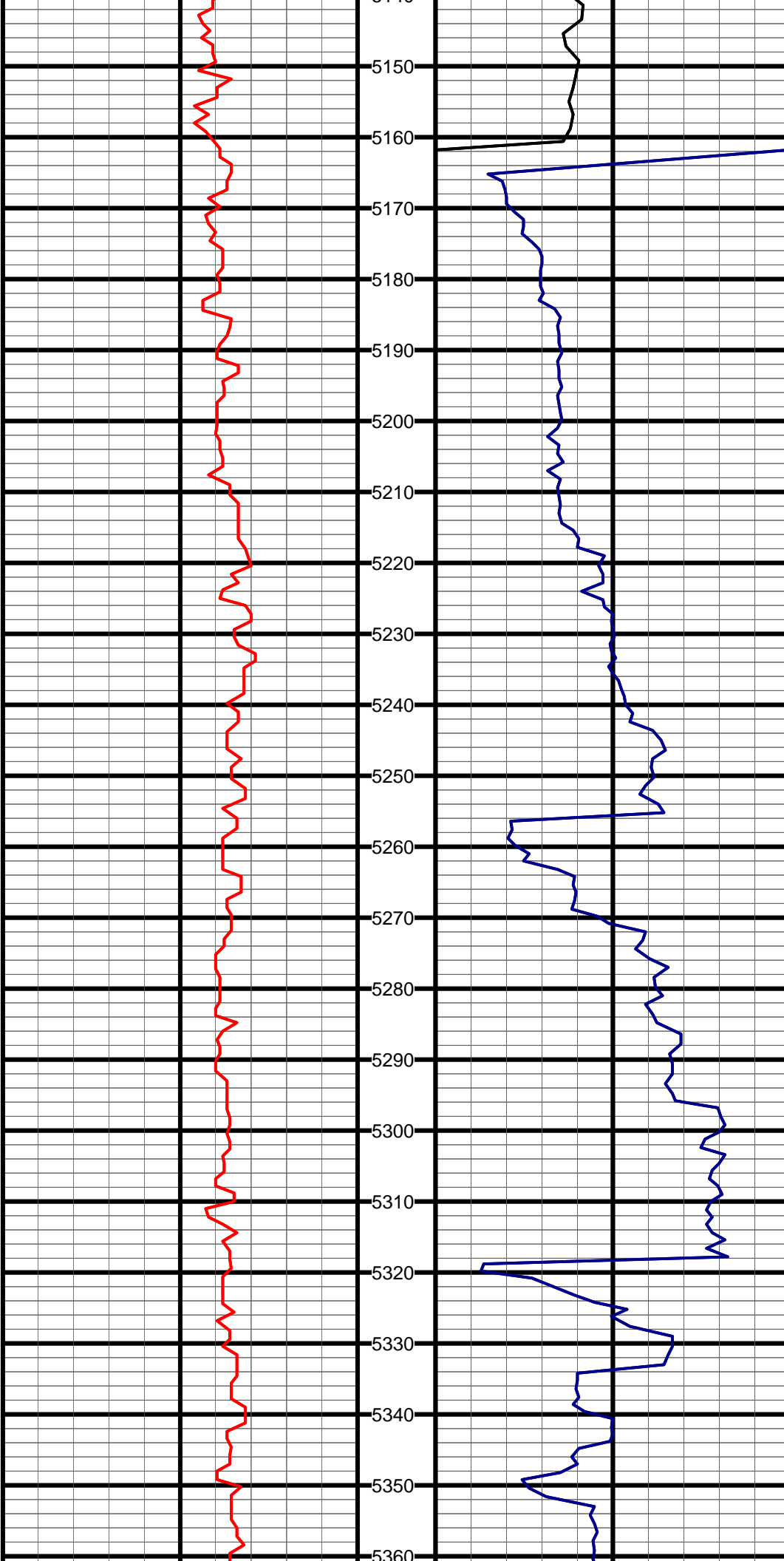
#35 MD:4708.0 TVD:4683.6 I:0.9 A:247.1 VS:-199.7

#36 MD:4803.0 TVD:4778.6 I:0.9 A:241.8 VS:-200.2



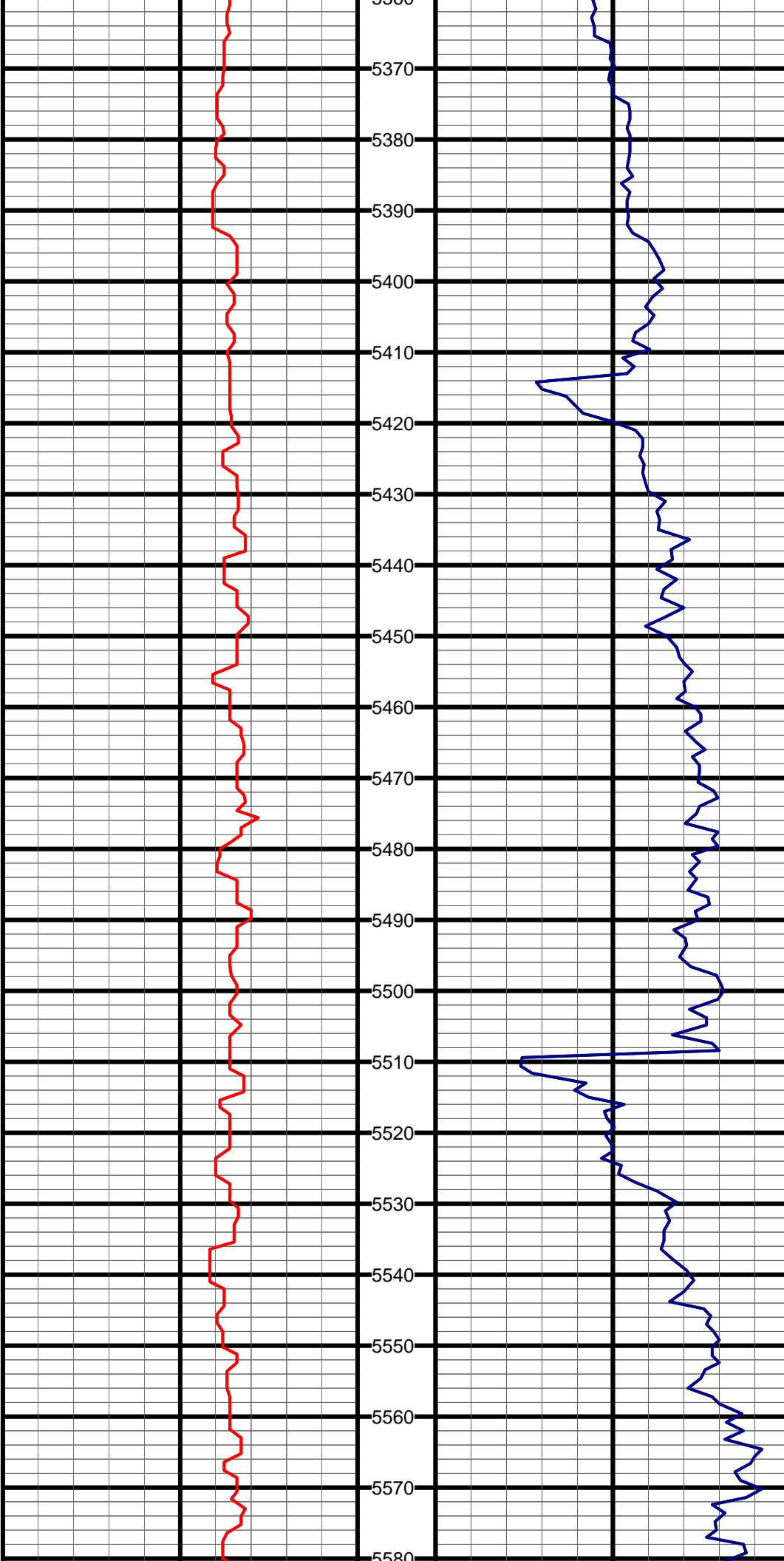
#37 MD:5088.0 TVD:5063.6 I:1.1 A:67.4 VS:-200.3

#38 MD:5119.0 TVD:5094.6 I:1.0 A:63.1 VS:-200.1



#39 MD:5181.0 TVD:5156.6 I:0.7 A:69.6 VS:-199.7

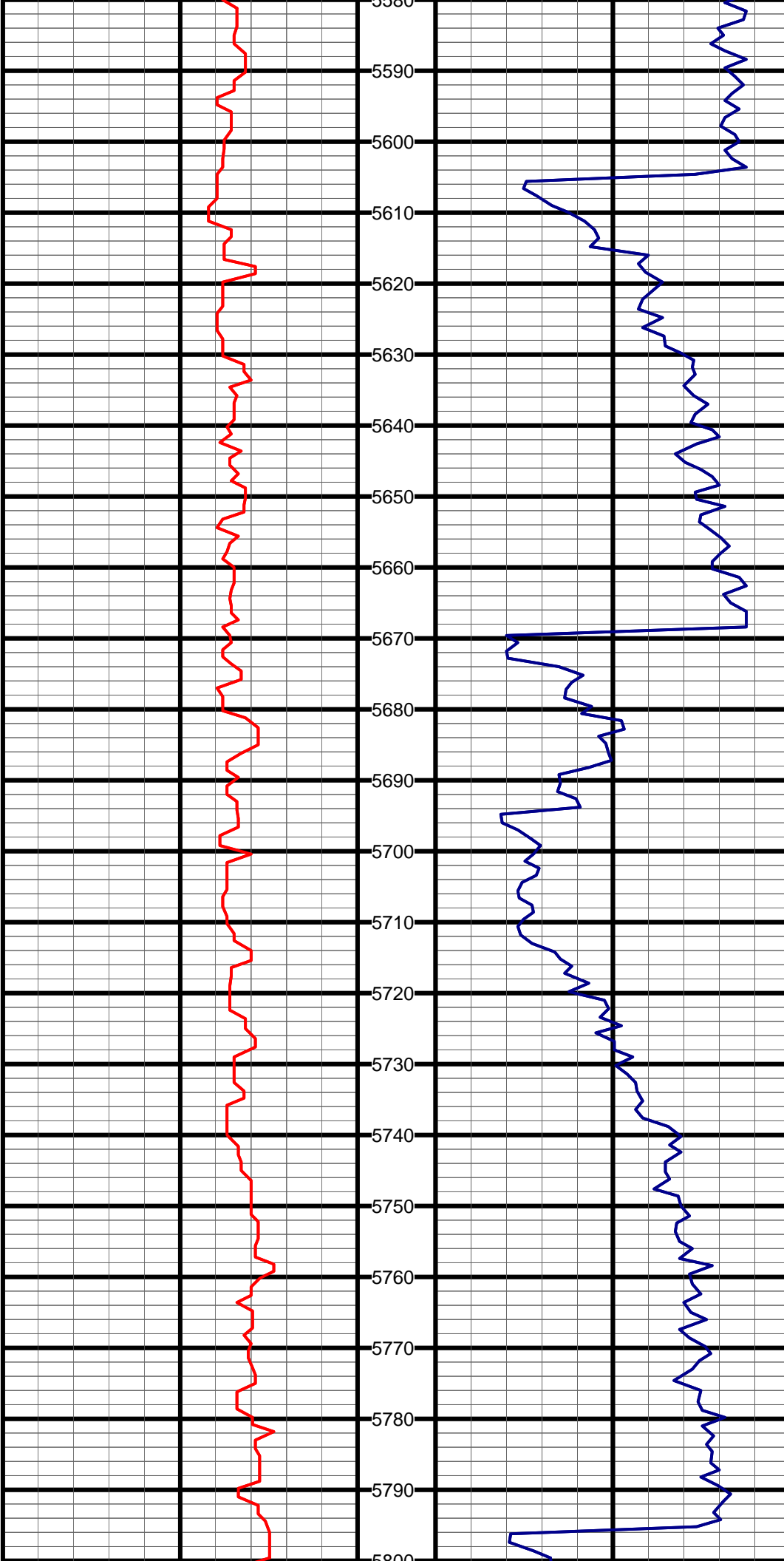
#40 MD:5276.0 TVD:5251.5 I:3.4 A:15.4 VS:-196.9



#41 MD:5371.0 TVD:5345.8 I:9.9 A:346.6 VS:-186.2

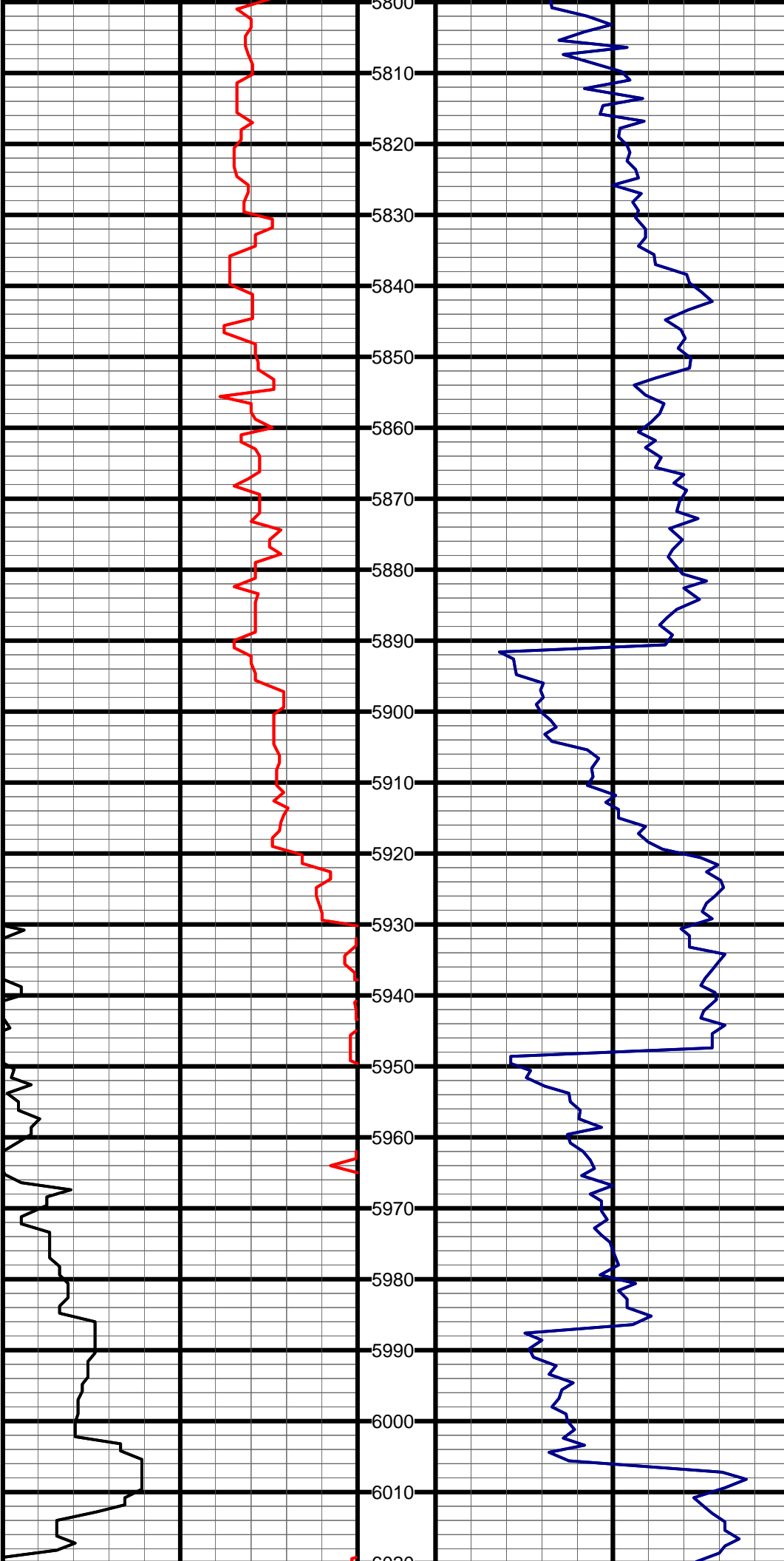
#42 MD:5466.0 TVD:5438.1 I:17.8 A:13.7 VS:-164.2

#43 MD:5561.0 TVD:5526.0 I:26.4 A:12.3 VS:-130.0



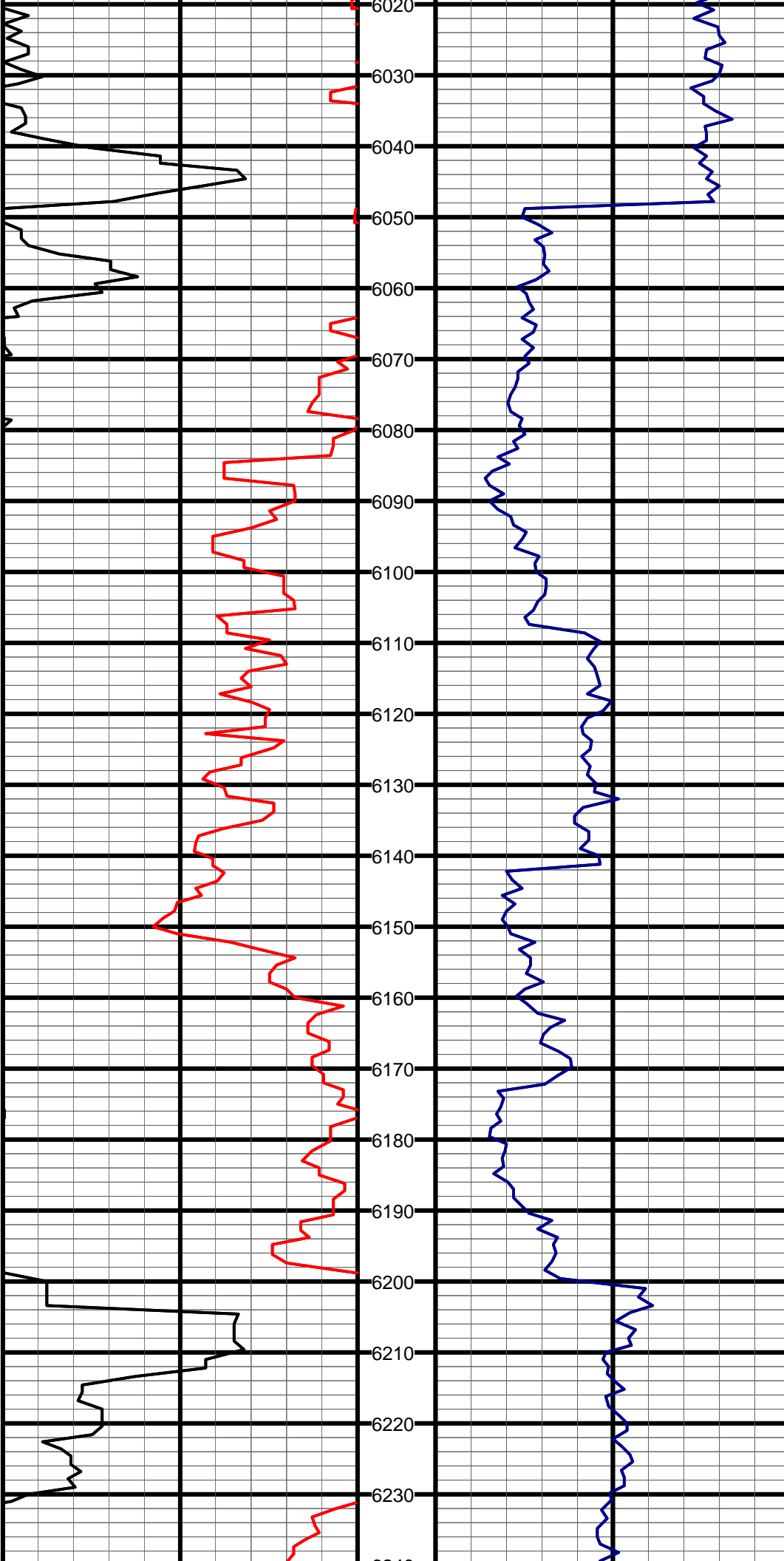
#44 MD:5656.0 TVD:5608.2 I:33.9 A:4.7 VS:-83.4

#45 MD:5751.0 TVD:5684.6 I:39.0 A:356.6 VS:-27.3



#46 MD:5846.0 TVD:5752.4 I:49.8 A:359.6 VS:39.1

#47 MD:5941.0 TVD:5808.2 I:58.2 A:2.4 VS:115.6

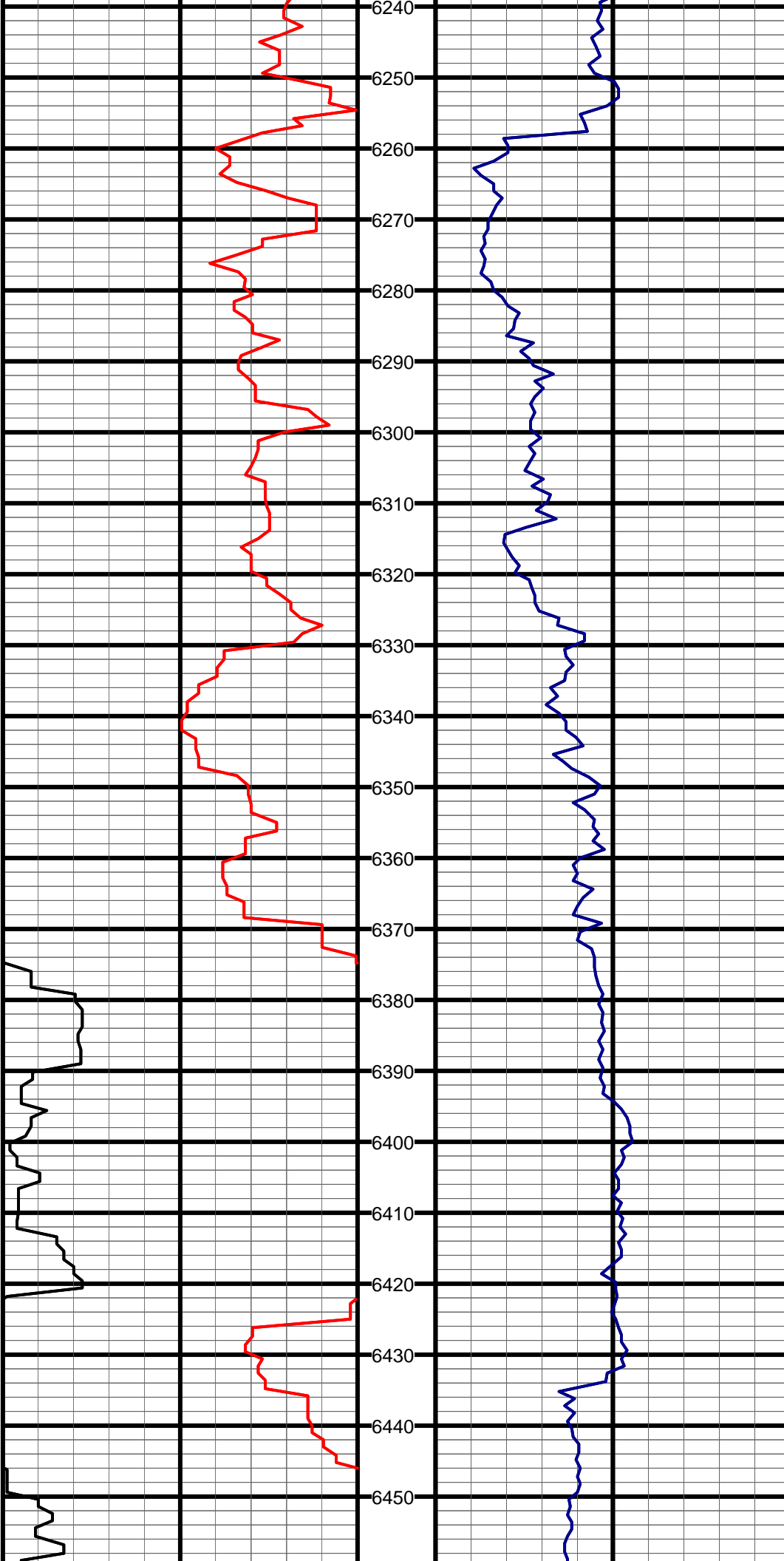


#48 MD:6036.0 TVD:5853.8 I:64.4 A:1.4 VS:198.4

#49 MD:6130.0 TVD:5890.5 I:69.6 A:358.5 VS:284.8

#50 MD:6175.0 TVD:5904.9 I:73.1 A:359.3 VS:327.3

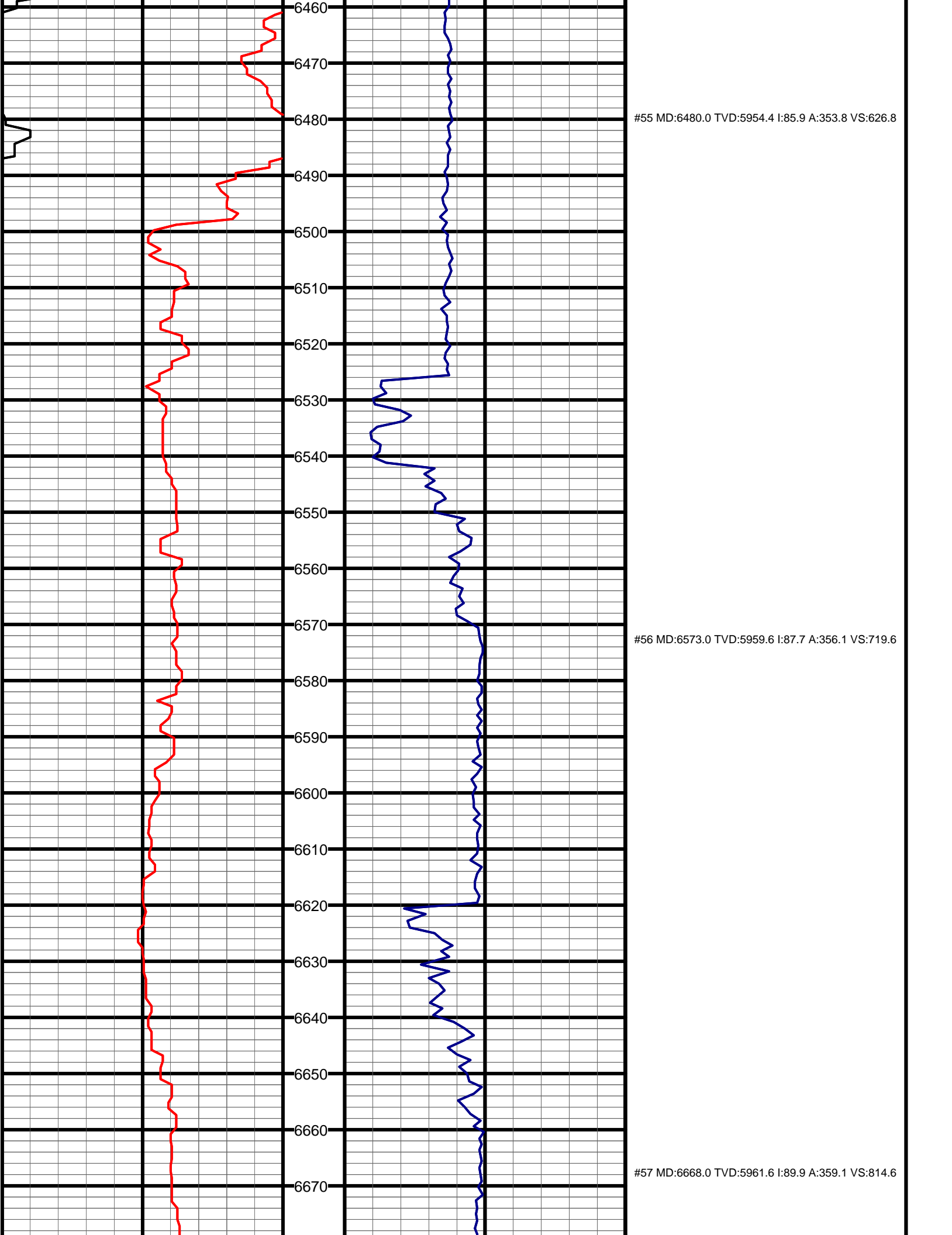
#51 MD:6225.0 TVD:5918.9 I:74.3 A:0.5 VS:375.2

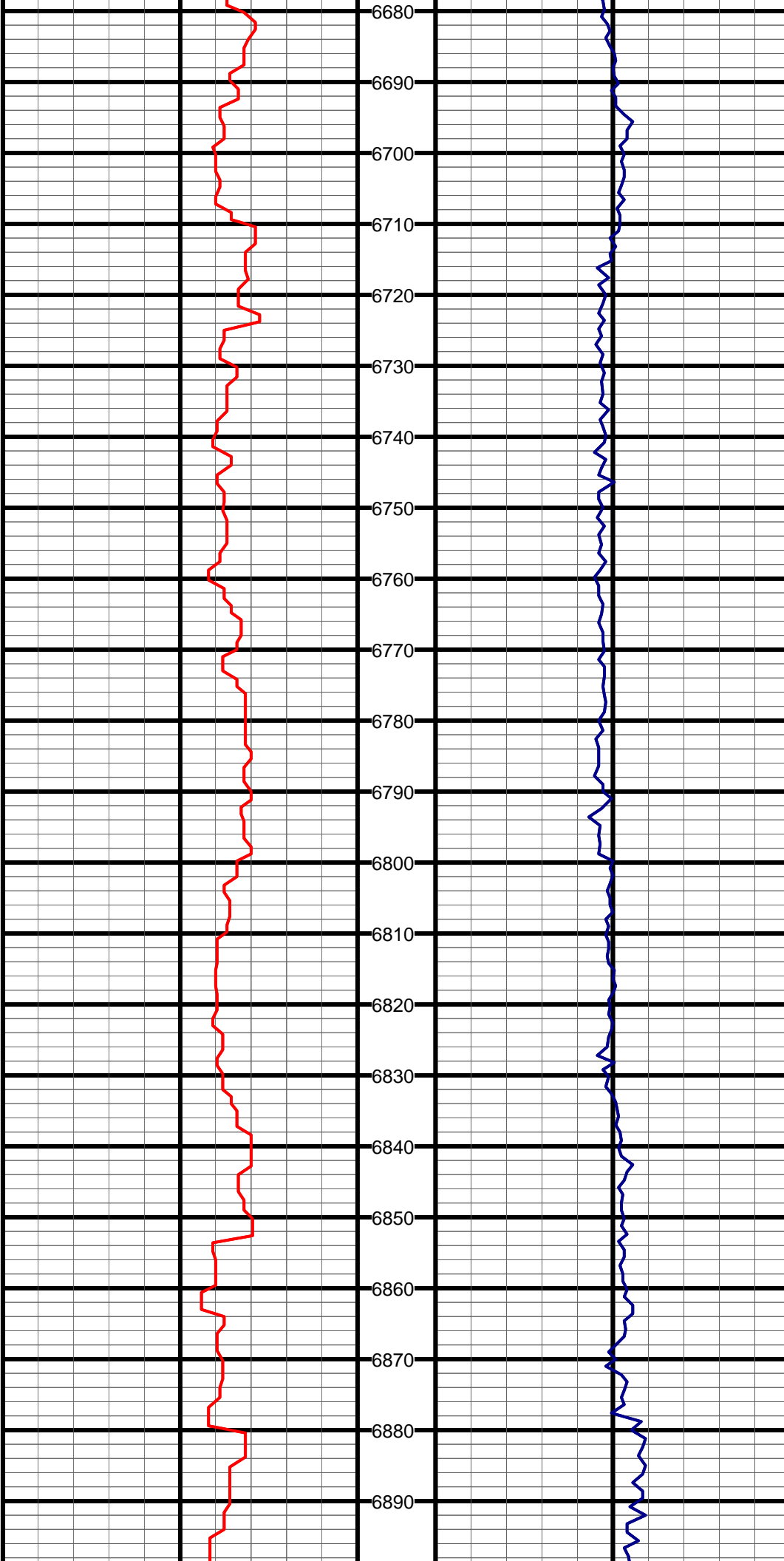


#52 MD:6270.0 TVD:5930.8 I:75.1 A:358.9 VS:418.6

#53 MD:6320.0 TVD:5941.0 I:81.4 A:355.9 VS:467.5

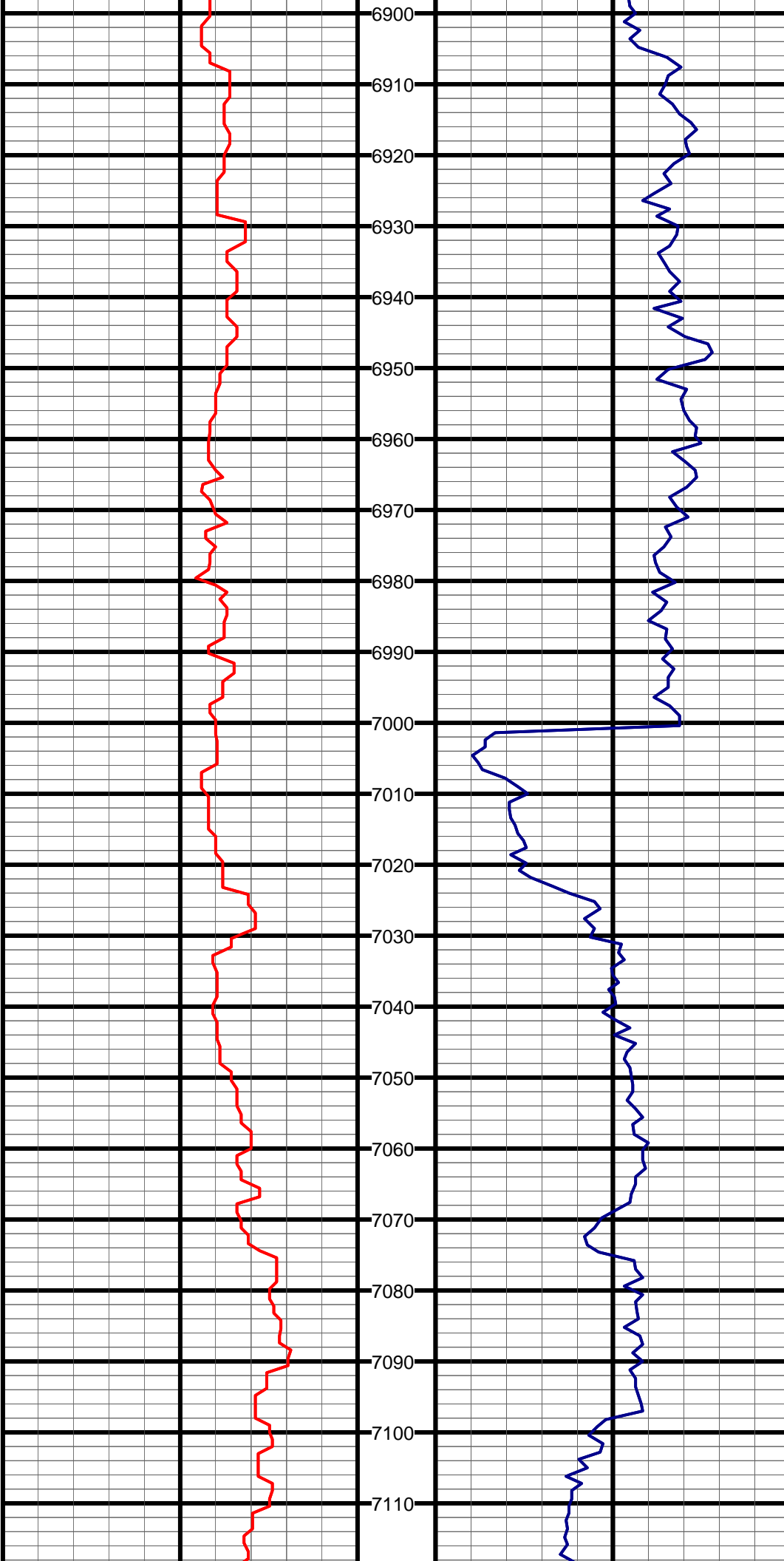
#54 MD:6385.0 TVD:5947.9 I:86.3 A:355.7 VS:532.1





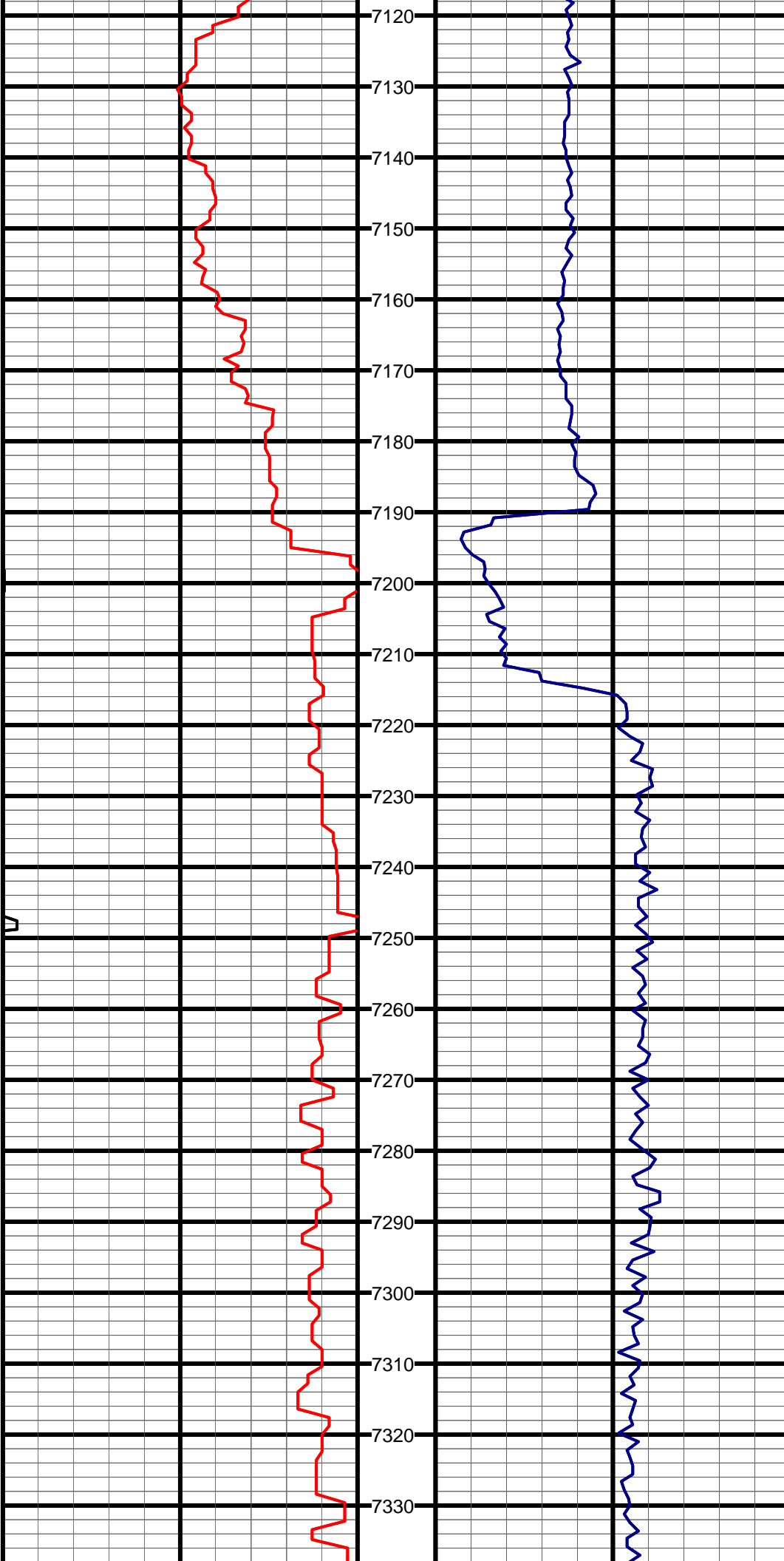
#58 MD:6763.0 TVD:5961.8 I:89.8 A:358.0 VS:909.5

#59 MD:6858.0 TVD:5962.4 I:89.5 A:357.8 VS:1004.5



#60 MD:6953.0 TVD:5963.2 I:89.5 A:356.3 VS:1099.4

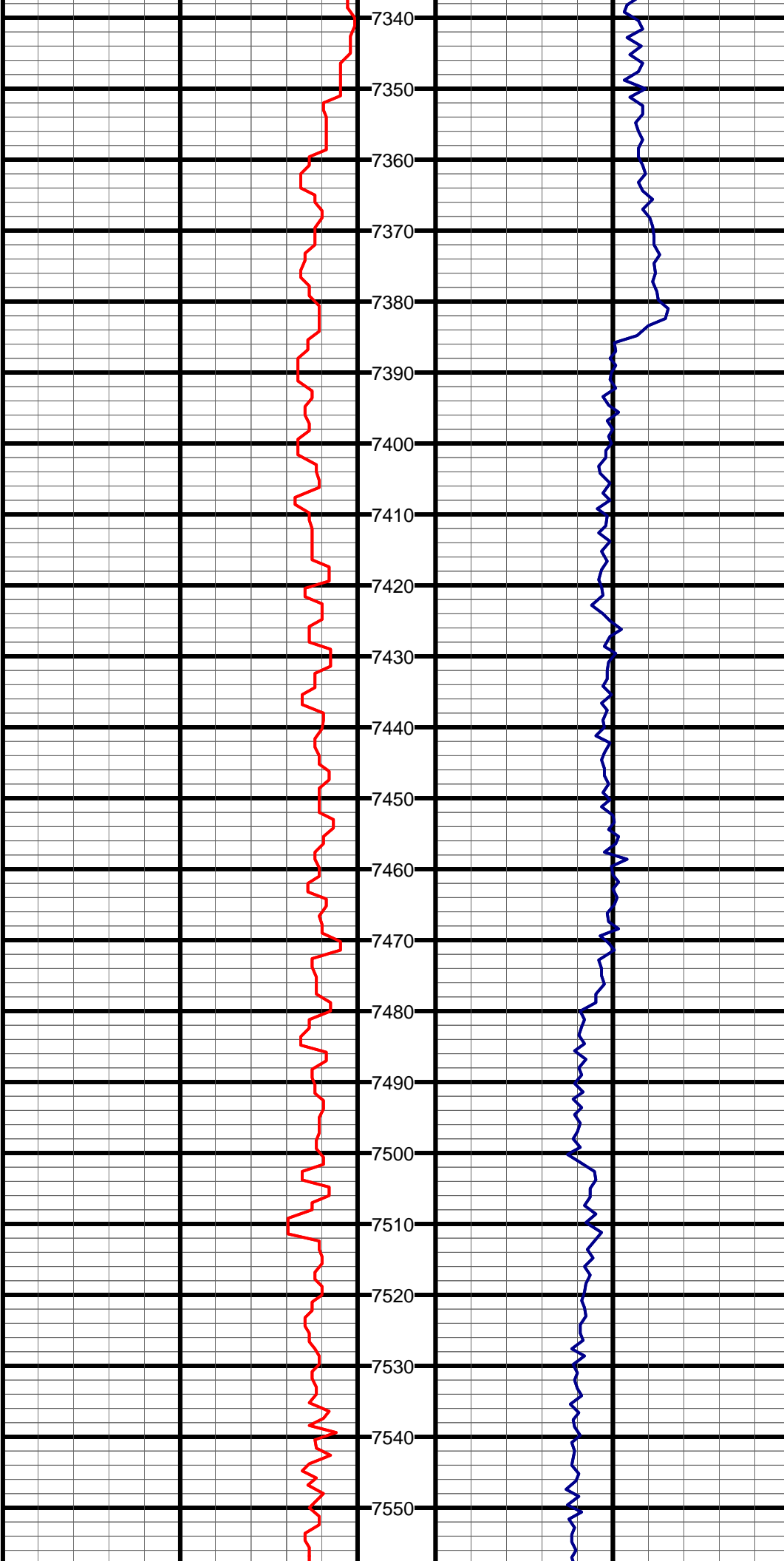
#61 MD:7048.0 TVD:5962.8 I:91.0 A:358.7 VS:1194.4



#62 MD:7143.0 TVD:5960.8 I:91.4 A:359.3 VS:1289.3

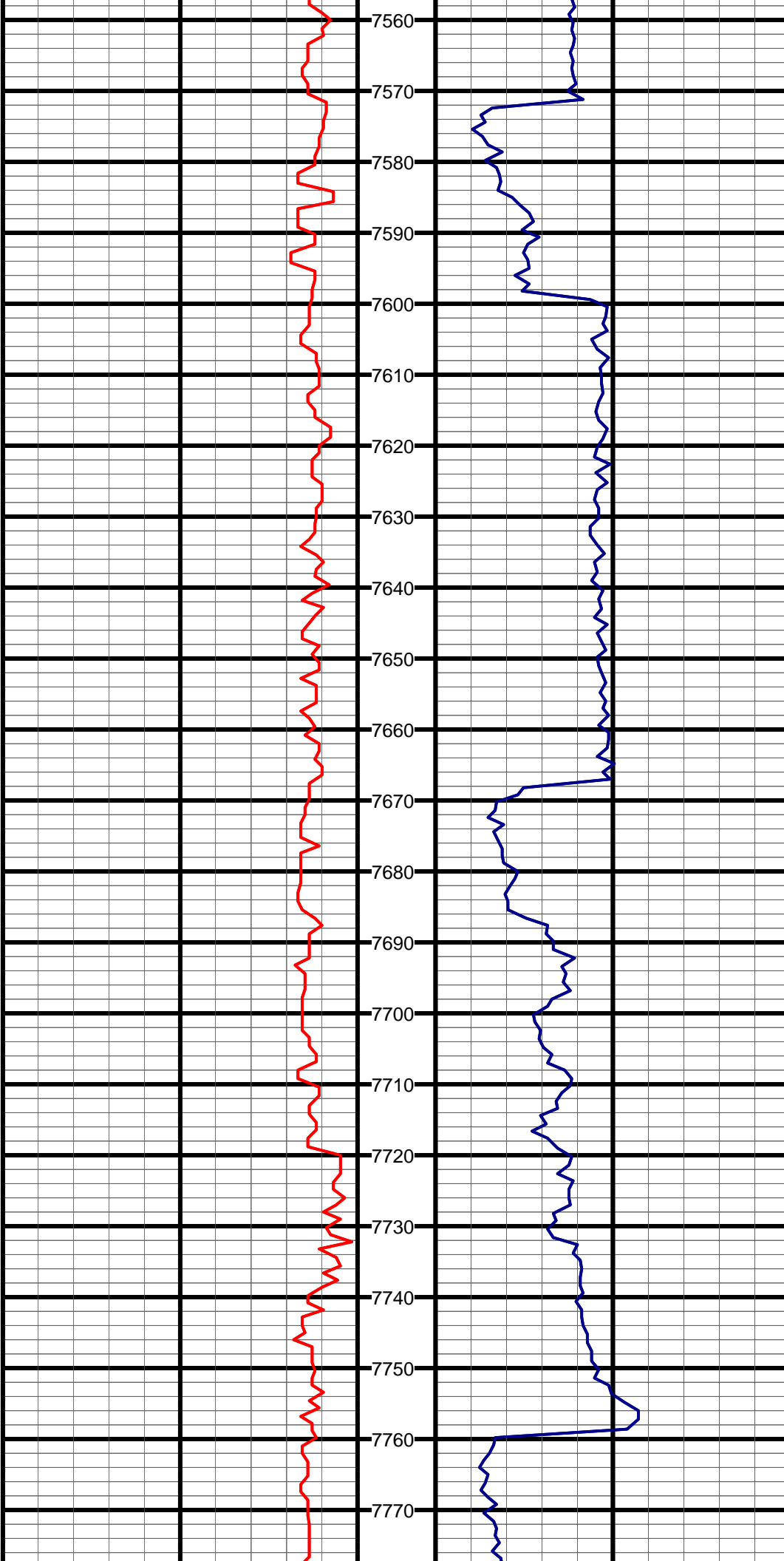
#63 MD:7238.0 TVD:5960.3 I:89.2 A:357.8 VS:1384.2

#64 MD:7333.0 TVD:5961.5 I:89.4 A:358.0 VS:1479.1



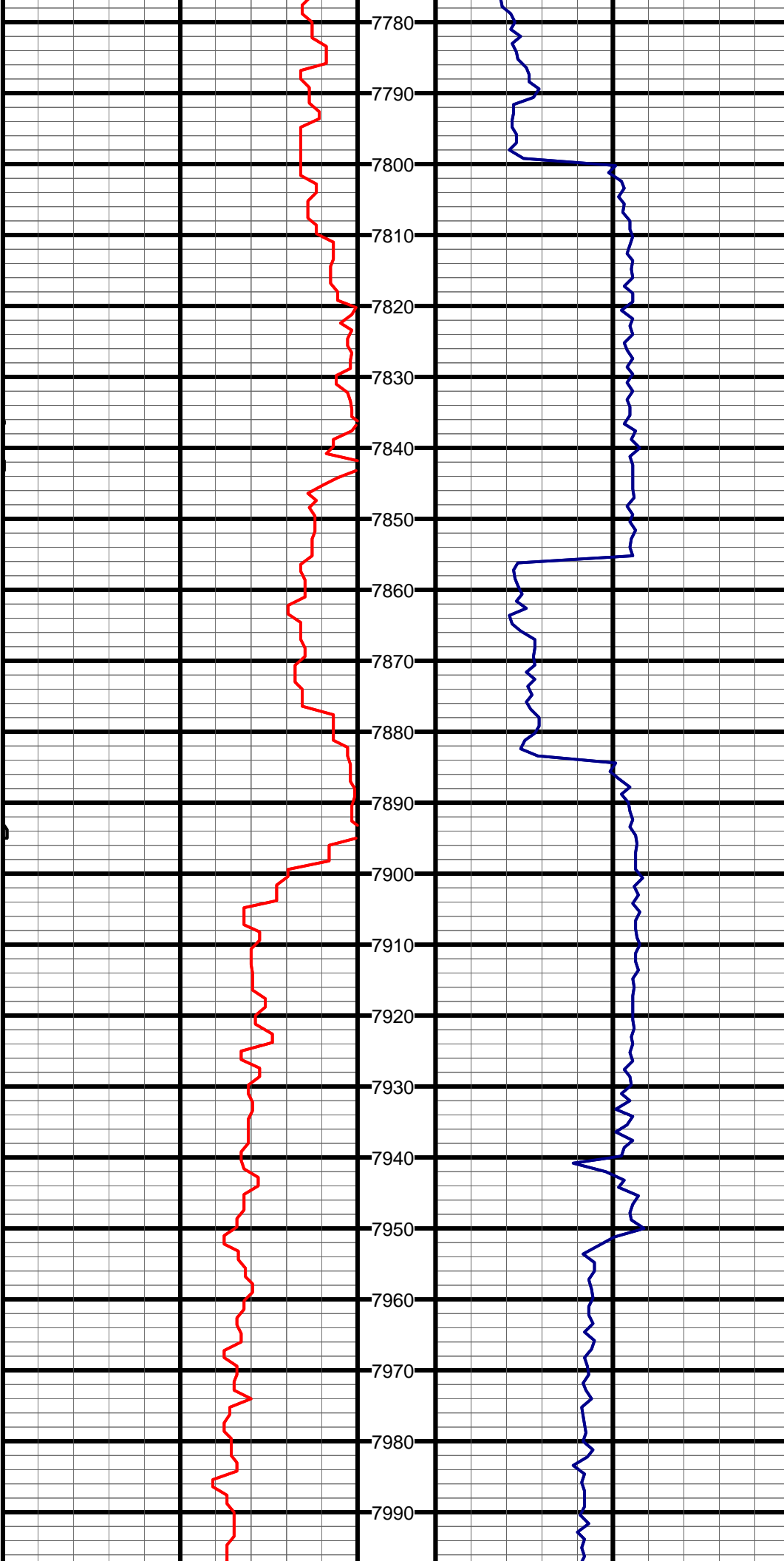
#65 MD:7428.0 TVD:5962.2 I:89.8 A:356.6 VS:1574.1

#66 MD:7523.0 TVD:5962.5 I:89.8 A:354.3 VS:1669.1



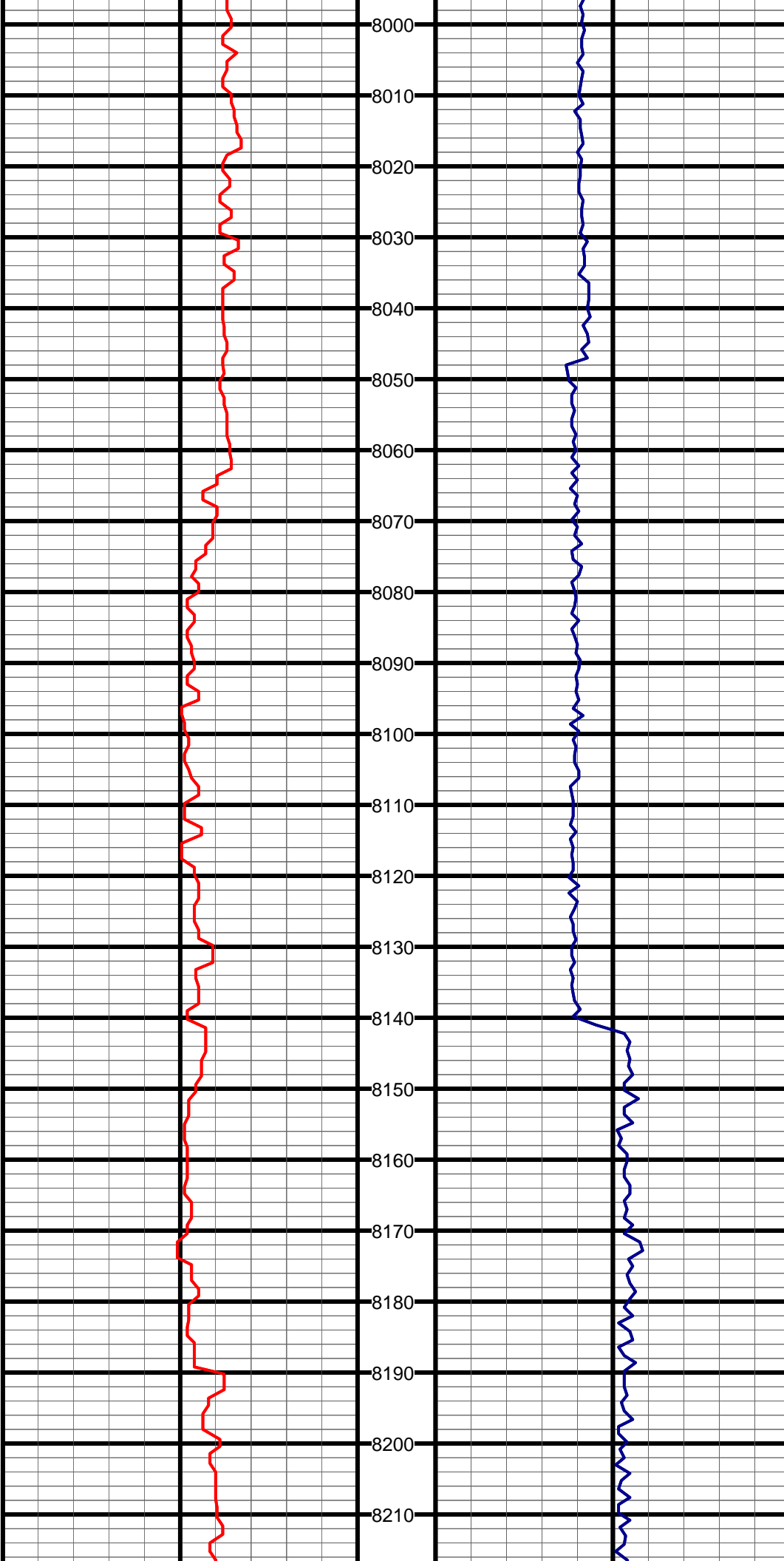
#67 MD:7618.0 TVD:5962.8 I:89.8 A:356.3 VS:1764.1

#68 MD:7713.0 TVD:5963.1 I:89.8 A:354.9 VS:1859.1



#69 MD:7808.0 TVD:5963.3 I:90.0 A:357.3 VS:1954.1

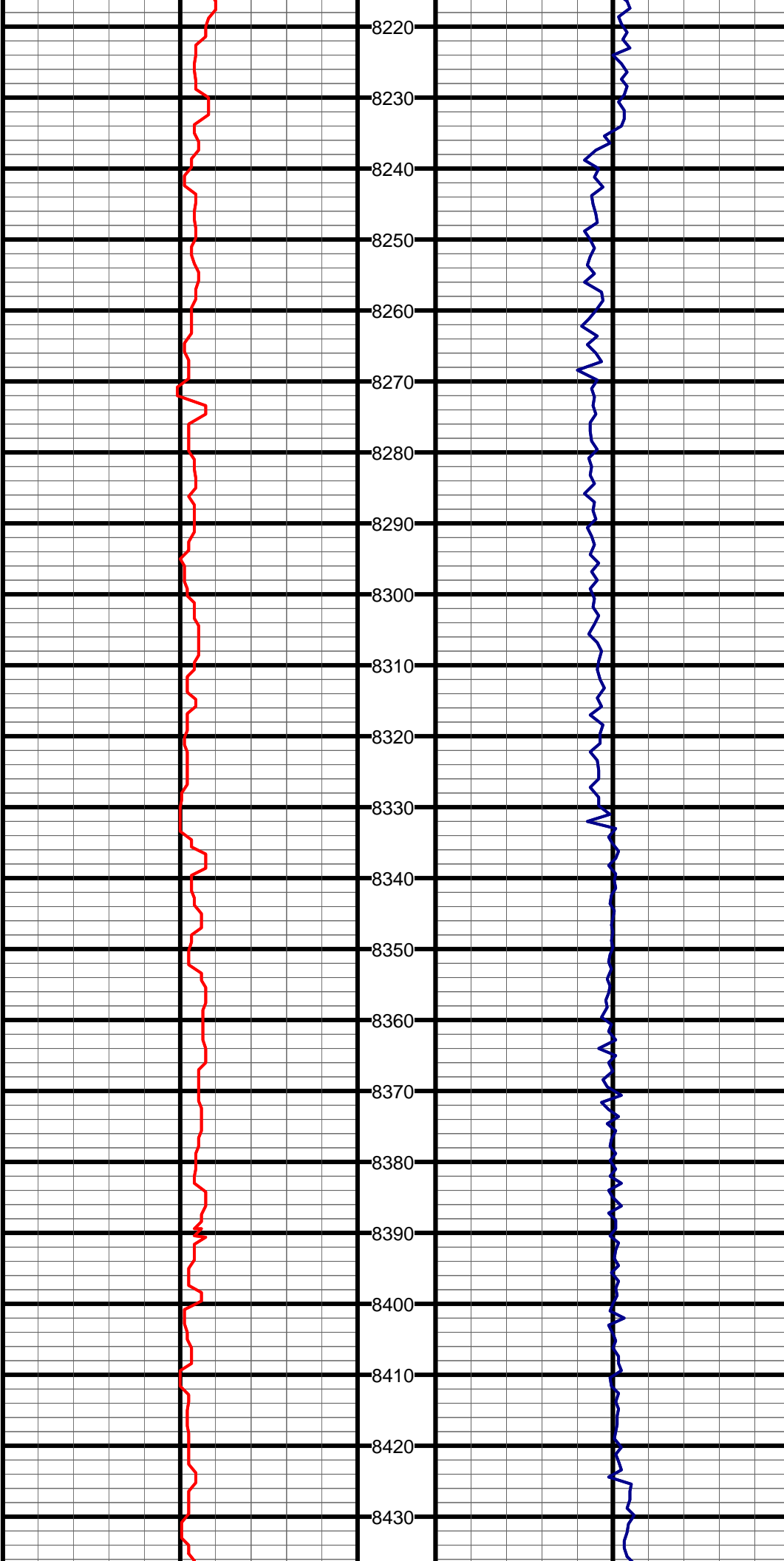
#70 MD:7903.0 TVD:5964.4 I:88.7 A:0.5 VS:2048.9



#71 MD:7998.0 TVD:5965.8 I:89.6 A:0.0 VS:2143.7

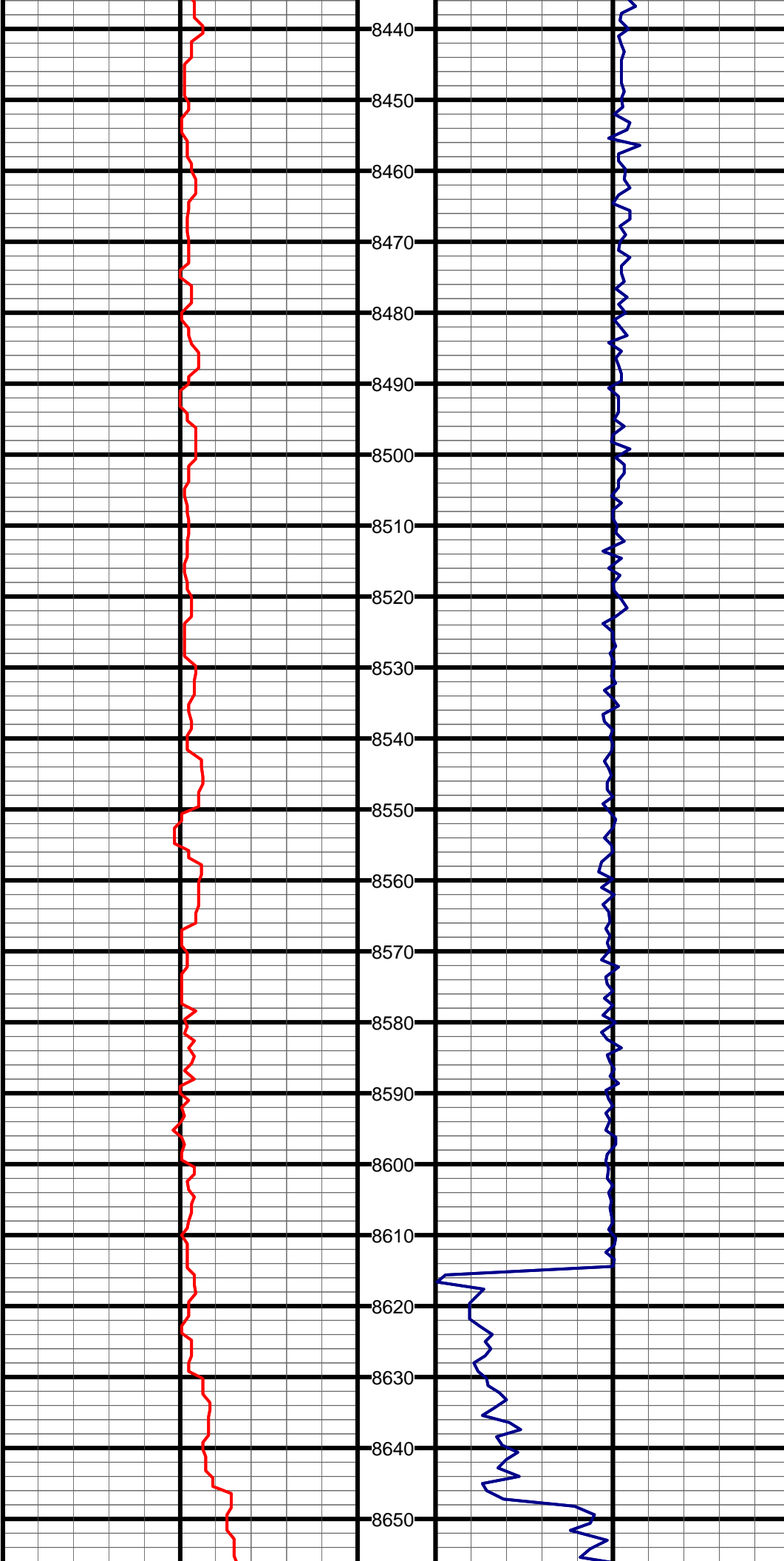
#72 MD:8093.0 TVD:5966.7 I:89.3 A:0.0 VS:2238.5

#73 MD:8188.0 TVD:5967.1 I:90.2 A:359.6 VS:2333.3



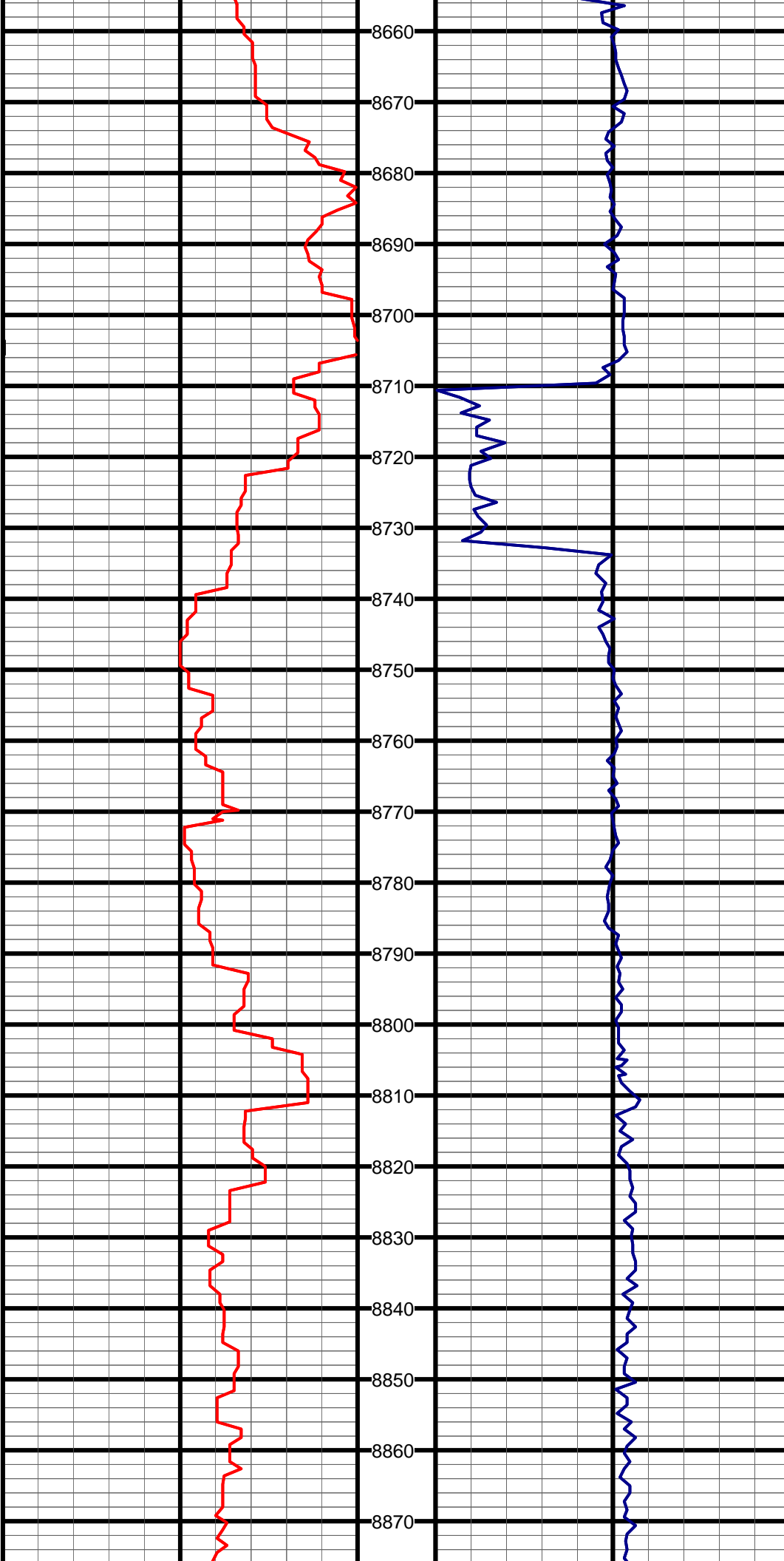
#74 MD:8283.0 TVD:5967.0 I:89.9 A:359.4 VS:2428.2

#75 MD:8378.0 TVD:5967.4 I:89.7 A:359.6 VS:2523.0



#76 MD:8473.0 TVD:5967.7 I:89.9 A:358.5 VS:2617.9

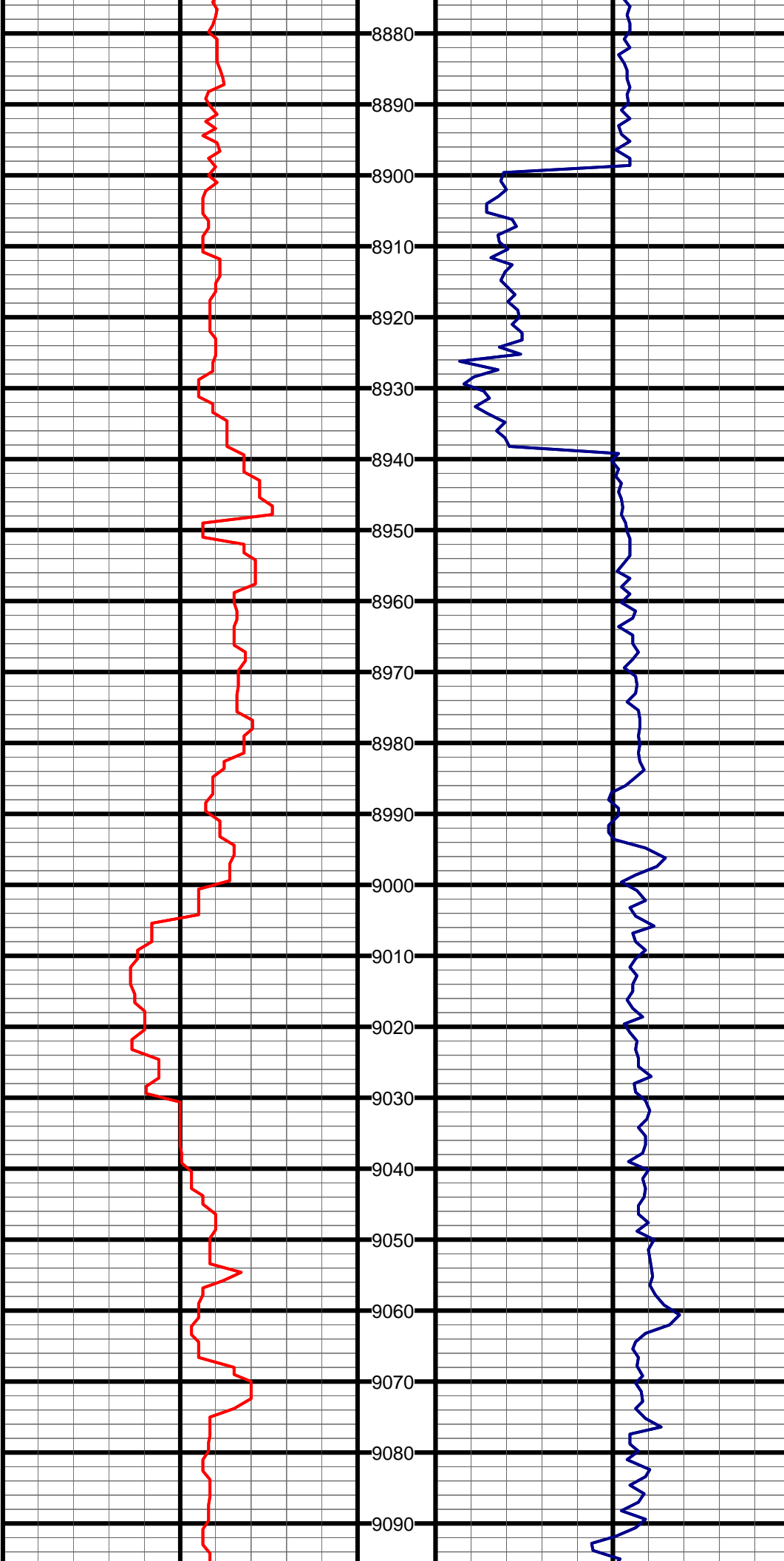
#77 MD:8567.0 TVD:5967.9 I:89.9 A:357.0 VS:2711.9



#78 MD:8662.0 TVD:5967.4 I:90.7 A:359.3 VS:2806.8

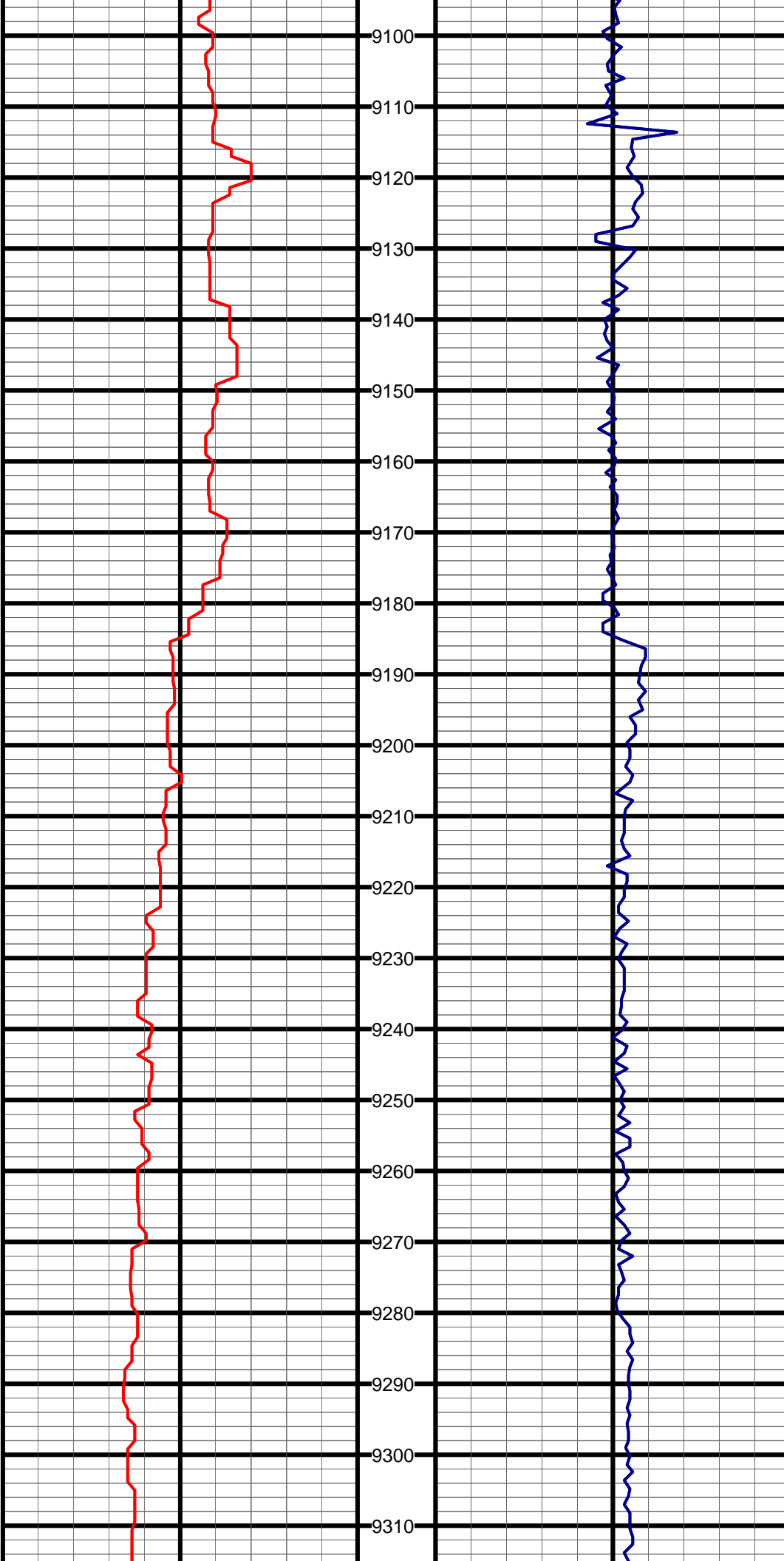
#79 MD:8757.0 TVD:5967.0 I:89.8 A:359.6 VS:2901.6

#80 MD:8852.0 TVD:5967.3 I:89.8 A:357.5 VS:2996.6



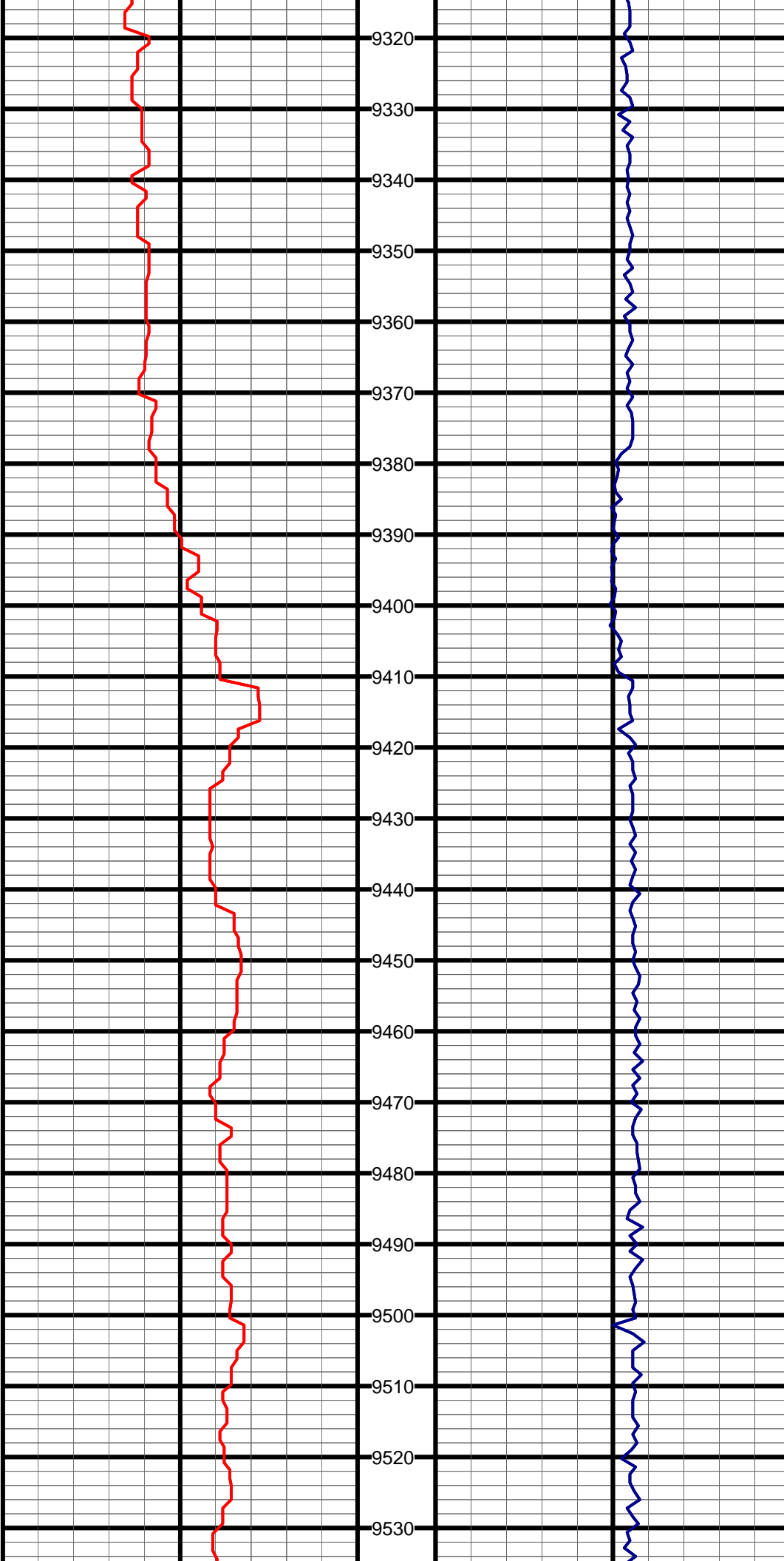
#81 MD:8947.0 TVD:5968.4 I:88.9 A:1.2 VS:3091.4

#82 MD:9042.0 TVD:5969.4 I:89.8 A:0.3 VS:3186.1



#83 MD:9137.0 TVD:5970.3 I:89.2 A:358.7 VS:3280.9

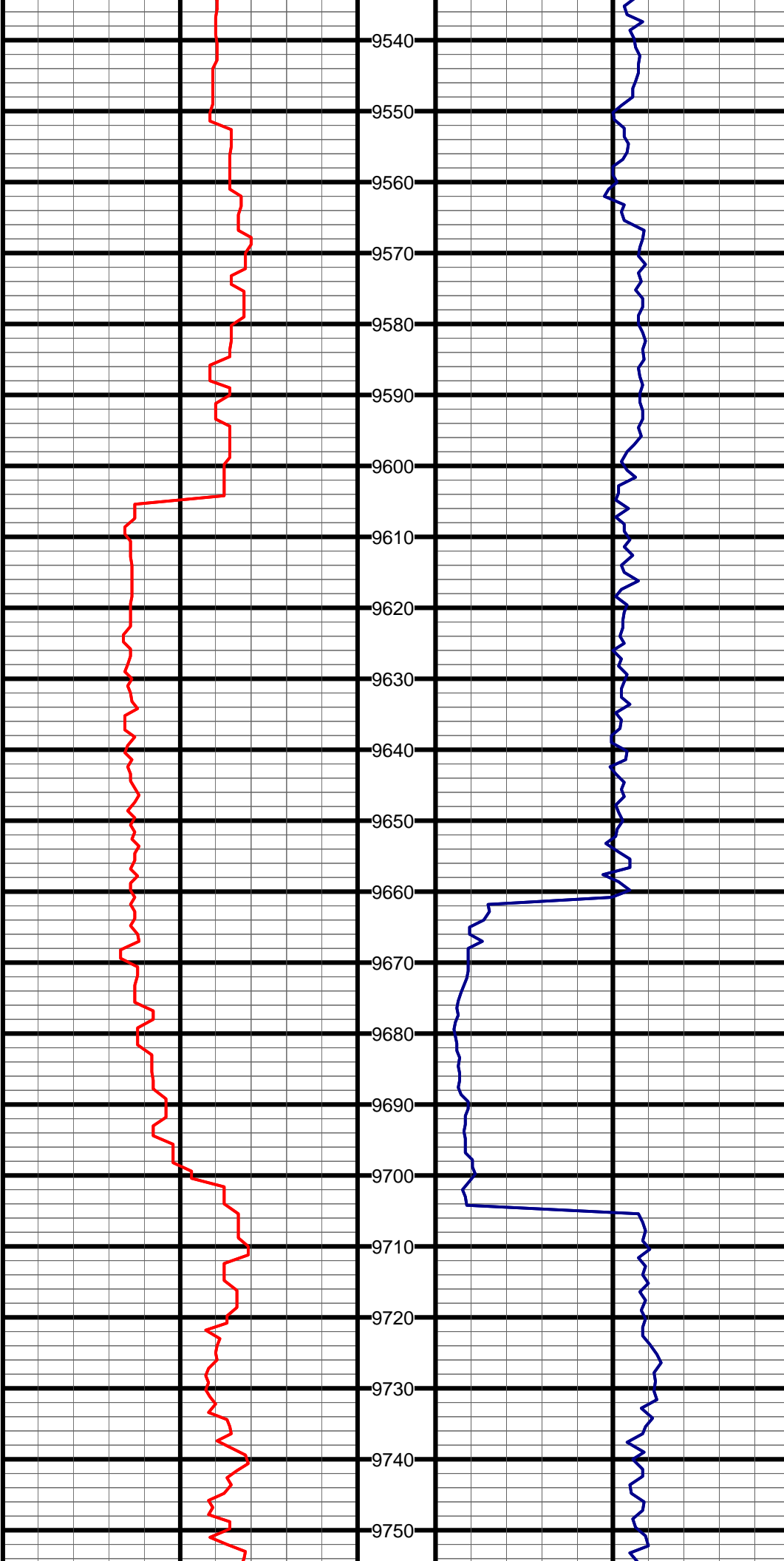
#84 MD:9232.0 TVD:5971.4 I:89.5 A:358.9 VS:3375.8



#85 MD:9327.0 TVD:5972.2 I:89.5 A:358.9 VS:3470.7

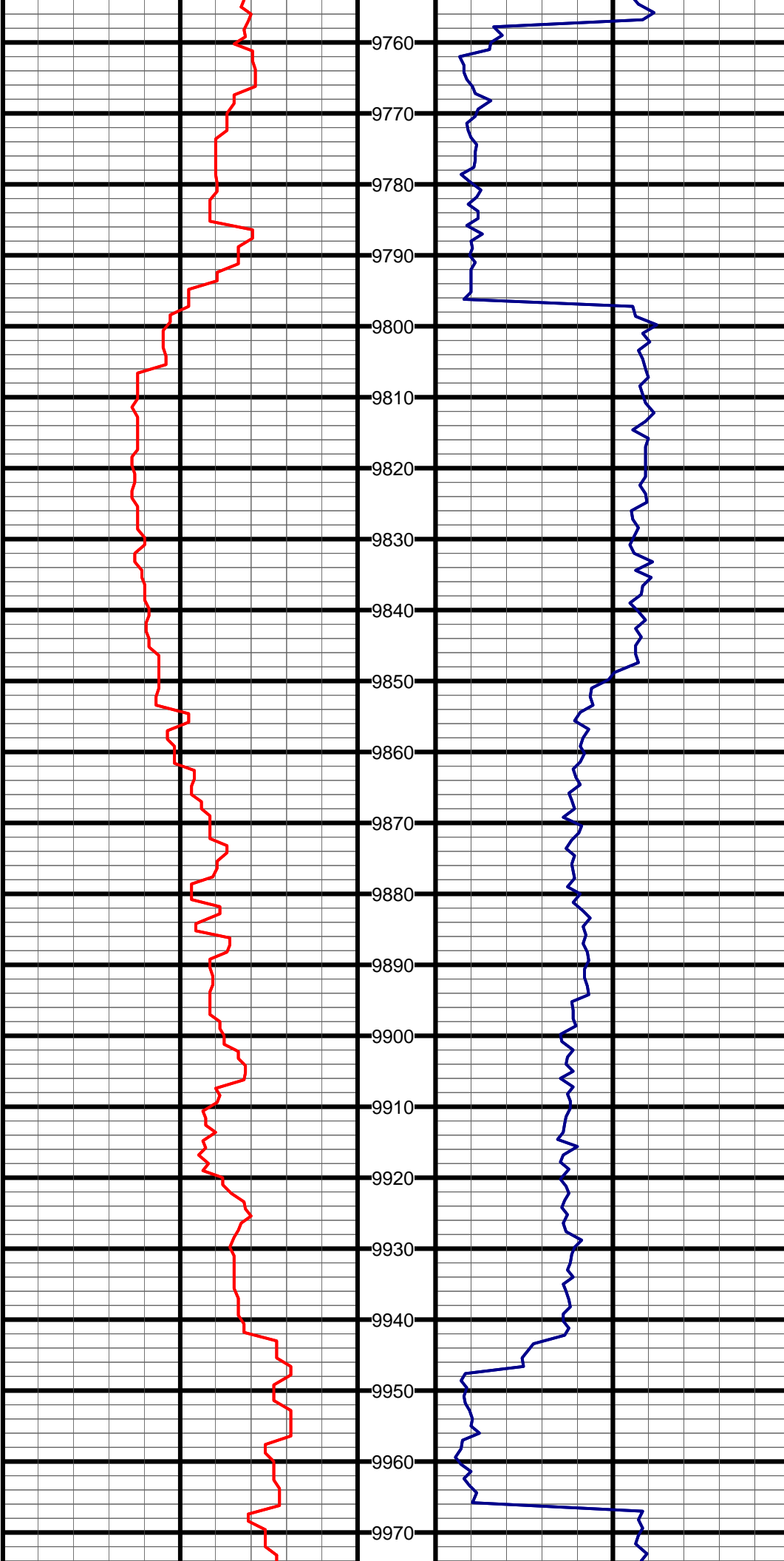
#86 MD:9422.0 TVD:5973.3 I:89.1 A:358.5 VS:3565.6

#87 MD:9517.0 TVD:5974.6 I:89.4 A:356.3 VS:3660.6



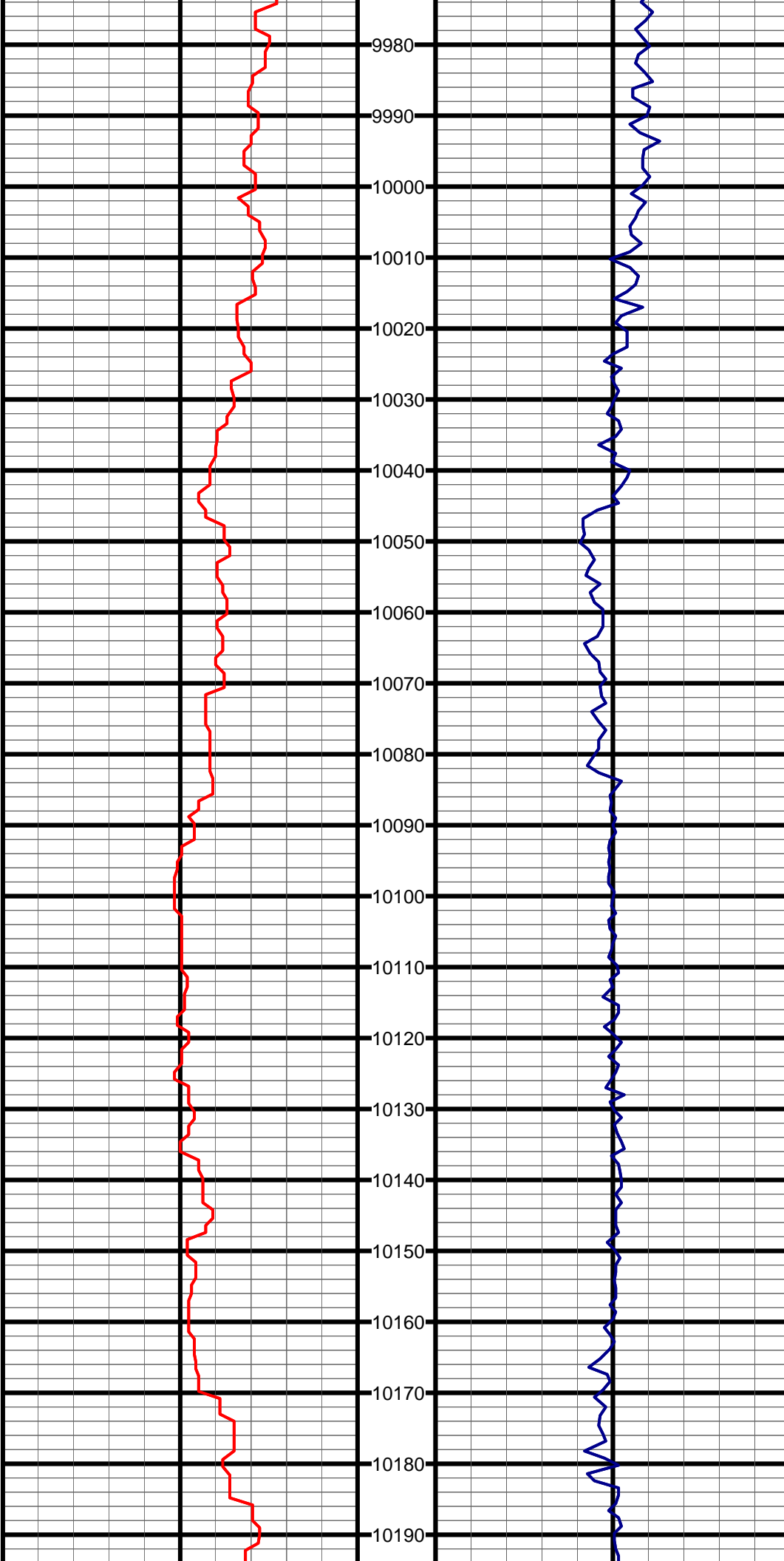
#88 MD:9612.0 TVD:5975.6 I:89.4 A:354.5 VS:3755.6

#89 MD:9707.0 TVD:5976.1 I:90.0 A:357.3 VS:3850.6



#90 MD:9802.0 TVD:5974.9 I:91.4 A:2.9 VS:3945.3

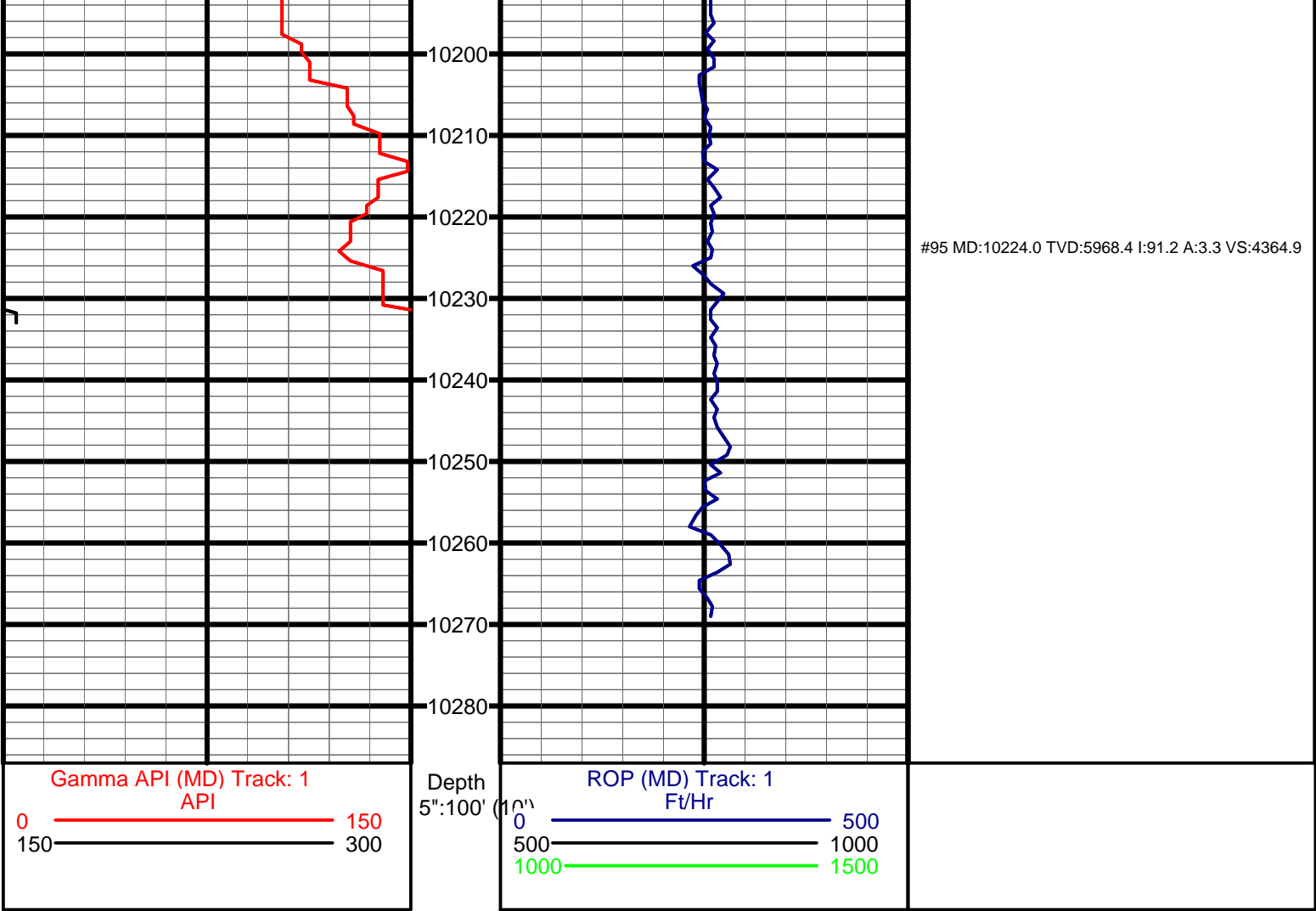
#91 MD:9896.0 TVD:5972.4 I:91.7 A:2.2 VS:4038.7



#92 MD:9991.0 TVD:5970.6 I:90.4 A:2.4 VS:4133.2

#93 MD:10086.0 TVD:5970.1 I:90.2 A:1.5 VS:4227.7

#94 MD:10181.0 TVD:5969.2 I:90.9 A:2.6 VS:4322.2





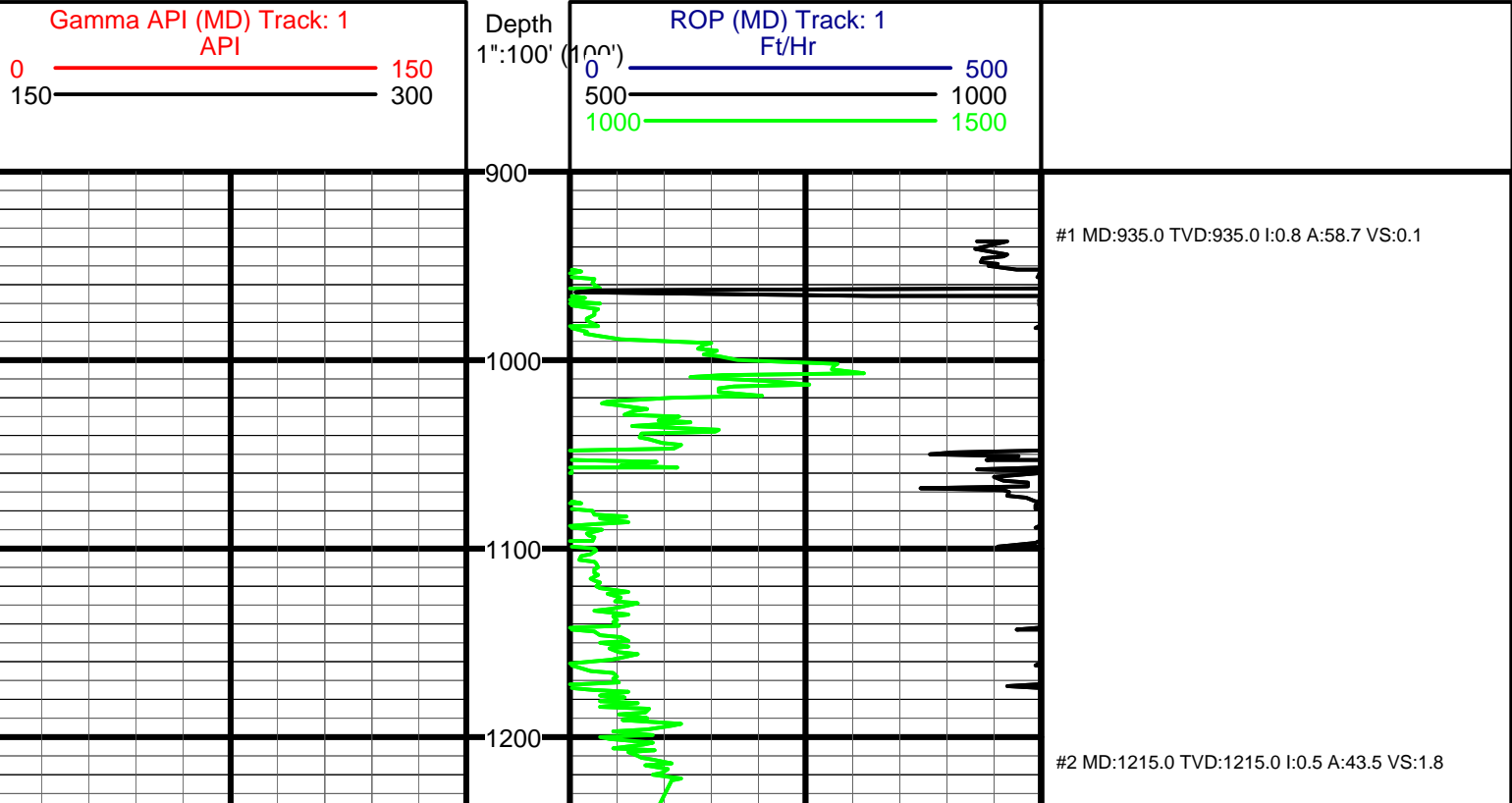
Timbro Federal LD18-74HN FINAL 1" MD
(Scale: 1"=100' (100'))

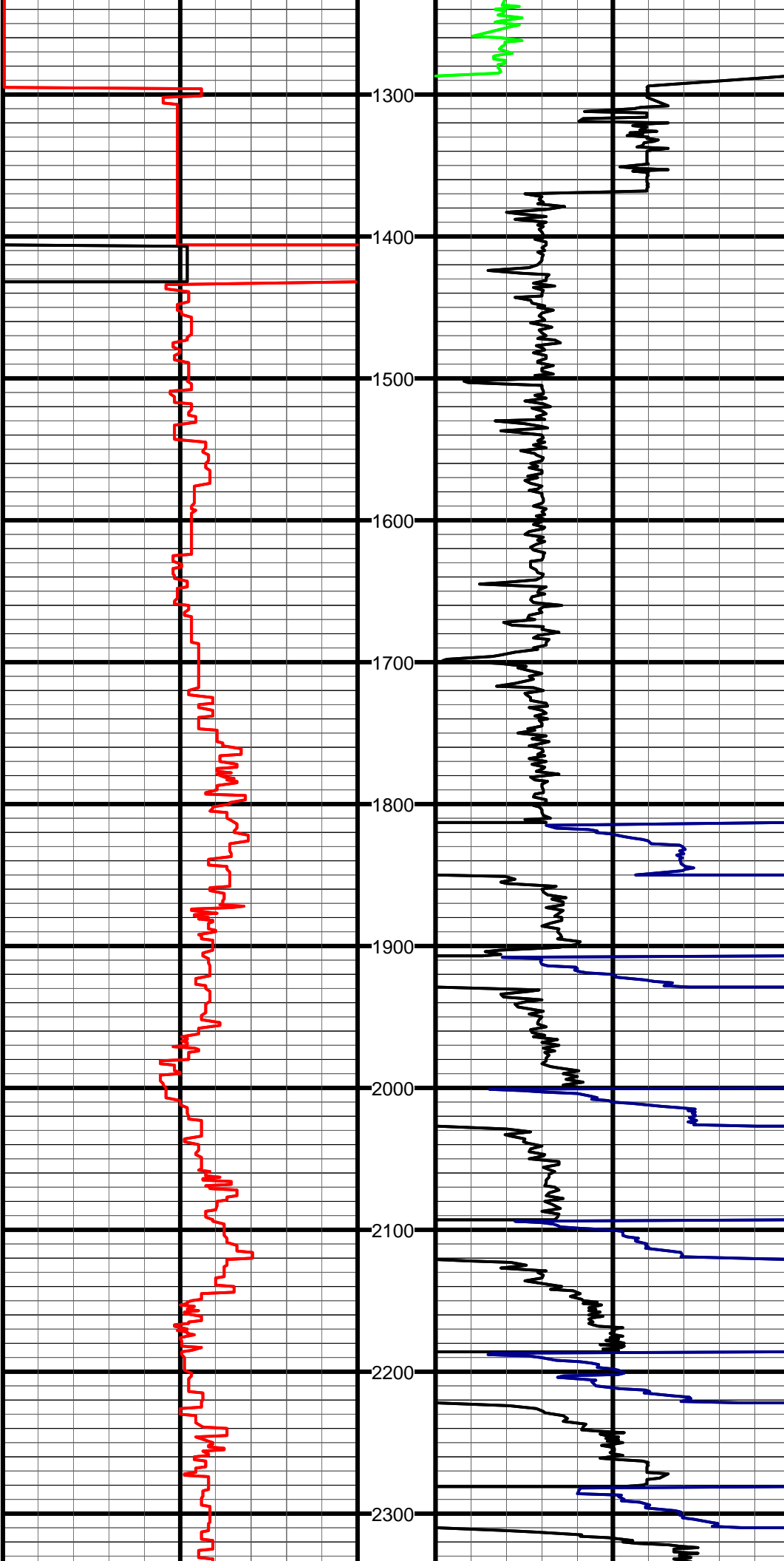
Company: NOBLE ENERGY INC
Well: TIMBRO FEDERAL LD18-74HN
Field: WILDCAT
Well ID: 05-123-36263
Job Number: RM-13139
Location: LAT: 40° 44' 40.121 N / LONG: 103° 54' 15.020 W
Operator 1: CHRIS ABBOTT
Operator 2: TROY MARDESEN
State: COLORADO
County: WELD
Country: USA
Elev KB: 4917
Elev DF: 30
Elev GL: 4887

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

Hole Data			Casing Record		
Size	From	To	Size	From	To
13 3/4"	0'	899'	9 5/8"	0'	892'
8 3/4"	899'	6,365'	7"	892'	6,355'
6 1/8"	6,365'	10,271'			

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	150	150	150		
Cal Factor	3.994	3.994	2.319		
Gamma Offset	36	36	41		
Start Depth	899'	5,161'	6,365'		
Start Date	2/21/2013	2/23/2013	2/25/2013		
Start Time	22:00	02:00	01:30		
End Depth	5,161'	6,365'	10,271'		
End Date	2/22/2013	2/23/2013	2/26/2013		
End Time	15:00	14:00	18:00		





#3 MD:1493.0 TVD:1493.0 I:0.5 A:64.8 VS:3.1

#4 MD:1772.0 TVD:1772.0 I:0.6 A:65.9 VS:4.1

#5 MD:1866.0 TVD:1865.9 I:3.2 A:193.7 VS:1.7

#6 MD:1960.0 TVD:1959.7 I:4.3 A:188.4 VS:-4.2

#7 MD:2055.0 TVD:2054.3 I:6.2 A:206.1 VS:-12.1

#8 MD:2149.0 TVD:2147.6 I:8.2 A:214.8 VS:-21.8

#9 MD:2242.0 TVD:2239.3 I:10.6 A:219.7 VS:-33.2

#10 MD:2327.0 TVD:2323.6 I:12.0 A:219.4 VS:-47.0

