



Castor LG 10-72 HN Final 5" MD  
(Scale: 5":100' (10"))

Company: Noble Energy Inc.

State: CO

Well: Castor LG 10-72 HN

County: Weld

Field: Wattenberg

Country: USA

Well ID: 05-123-33436

Job Number: RM-12757

Location: Sec 10, T8N, R59W, 6th P.M.

Elev KB: 4,796'

Operator 1: W. Barham

Elev DF:

Operator 2: R. Kubistek

Elev GL: 4,766'

Comment 1: Final 5" MD Gamma Log

Comment 2: Tie Into Surface Casing At 1,460'

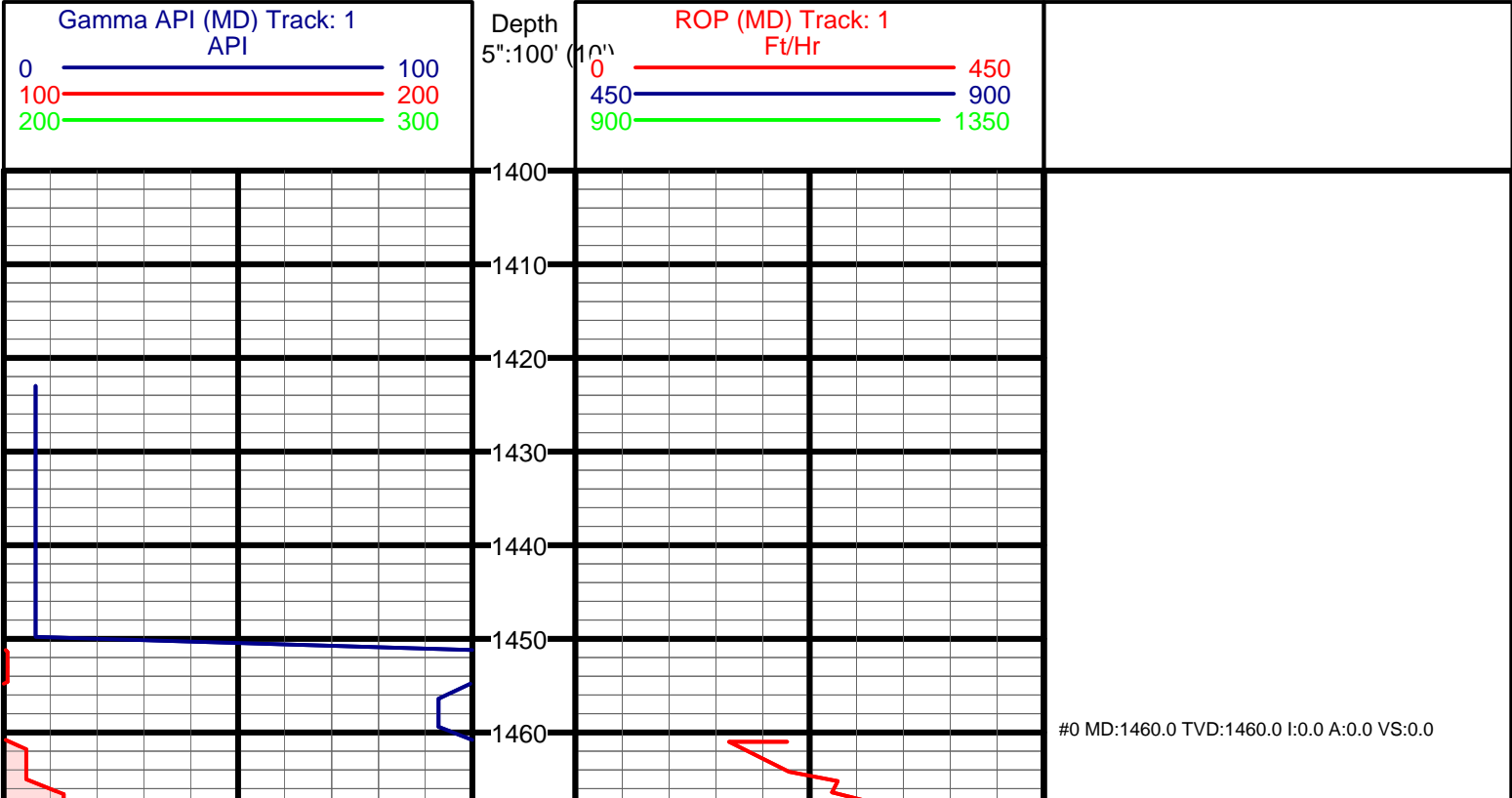
Comment 3:

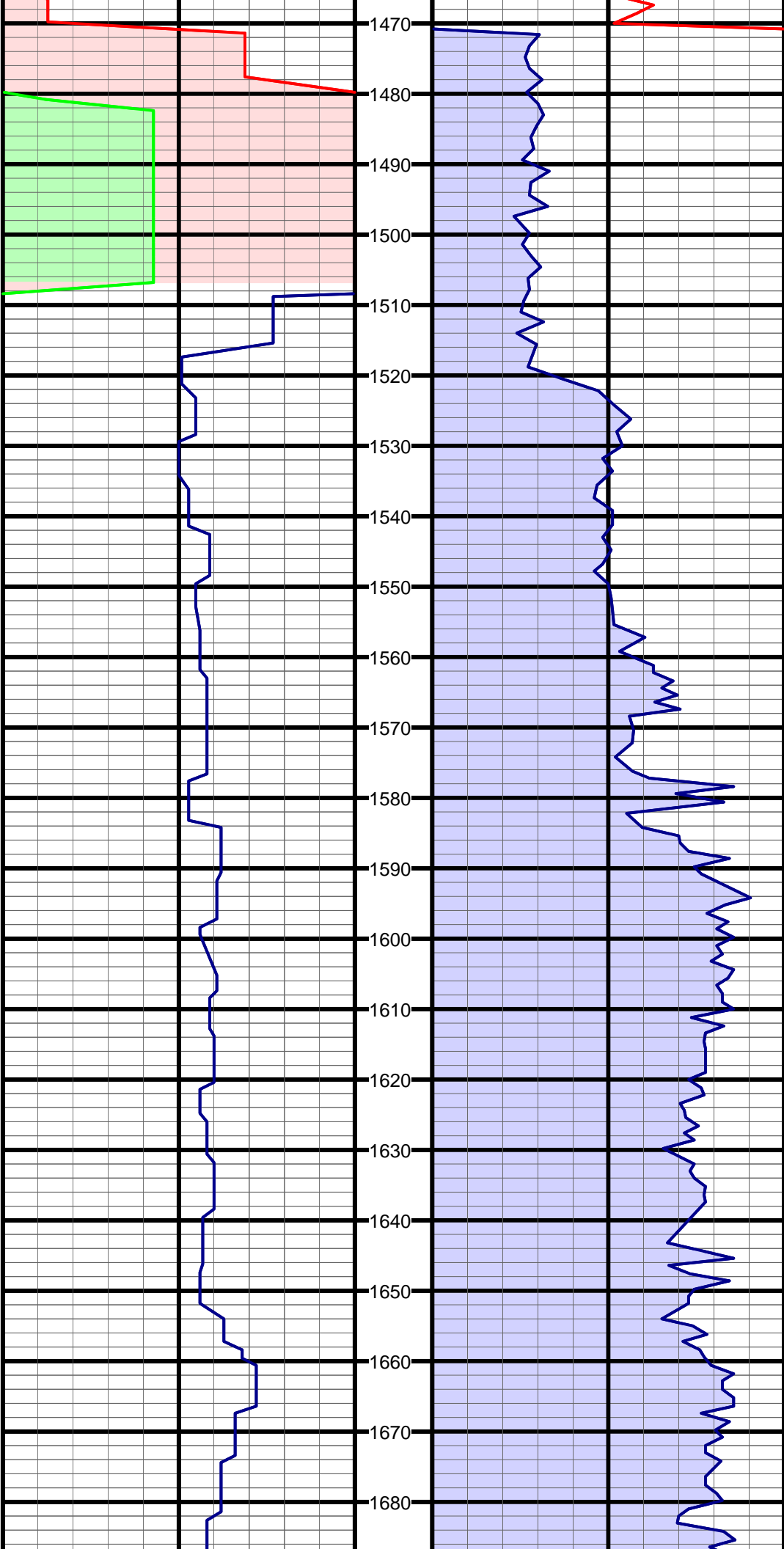
Comment 4:

Comment 5:

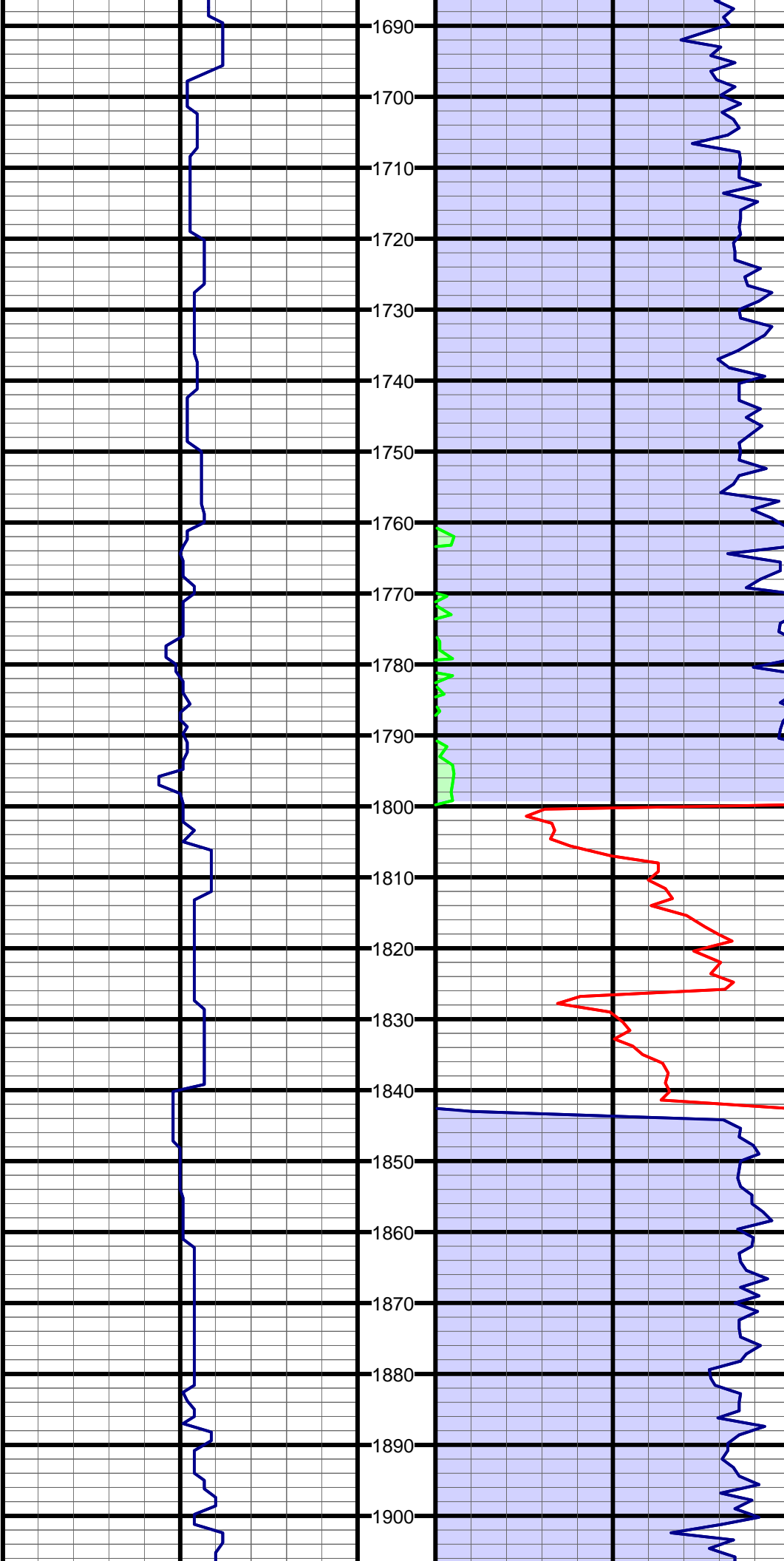
Hole Data			Casing Record		
Size	From	To	Size	From	To
13.750"	0'	1,460'	9.625"	0'	1,460'
8.750"	1,460'	6,536'	7.000"	1,460'	6,356'
6.125"	6,536'	10,235'	4.500"	6,356'	10,235'

Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	0122	0122	0122		
Cal Factor	3.0	3.0	1.8		
Gamma Offset	38'	38'	38'		
Start Depth	1,460'	5,226'	6,366'		
Start Date	14 Oct 2012	15 Oct 2012	17 Oct 2012		
Start Time	10:00	10:20	12:10		
End Depth	5,226'	6,366'	10,235'		
End Date	15 Oct 2012	16 Oct 2012	20 Oct 2012		
End Time	08:50	12:45	02:00		



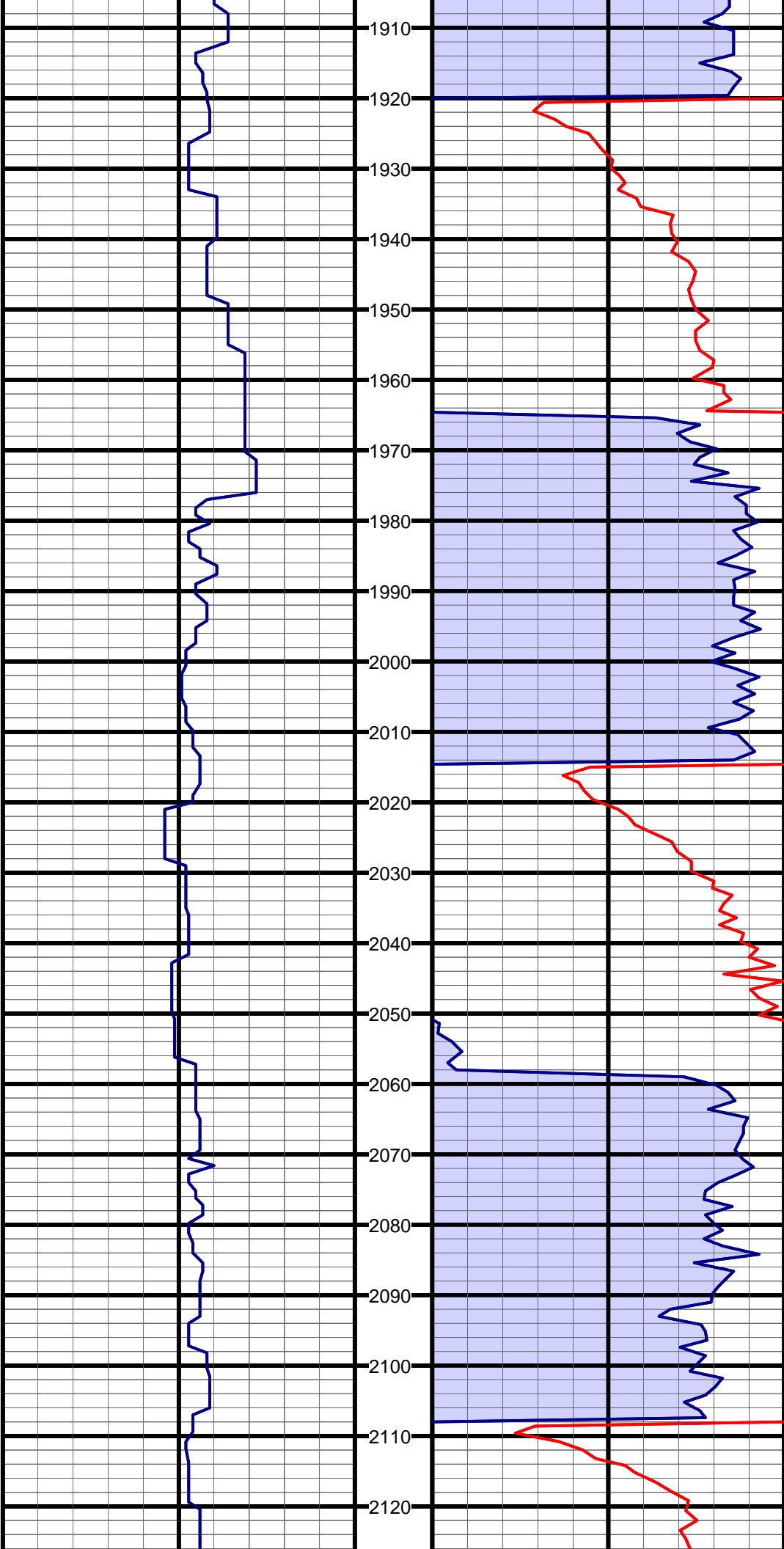


#1 MD:1502.0 TVD:1502.0 I:0.2 A:118.9 VS:-0.0



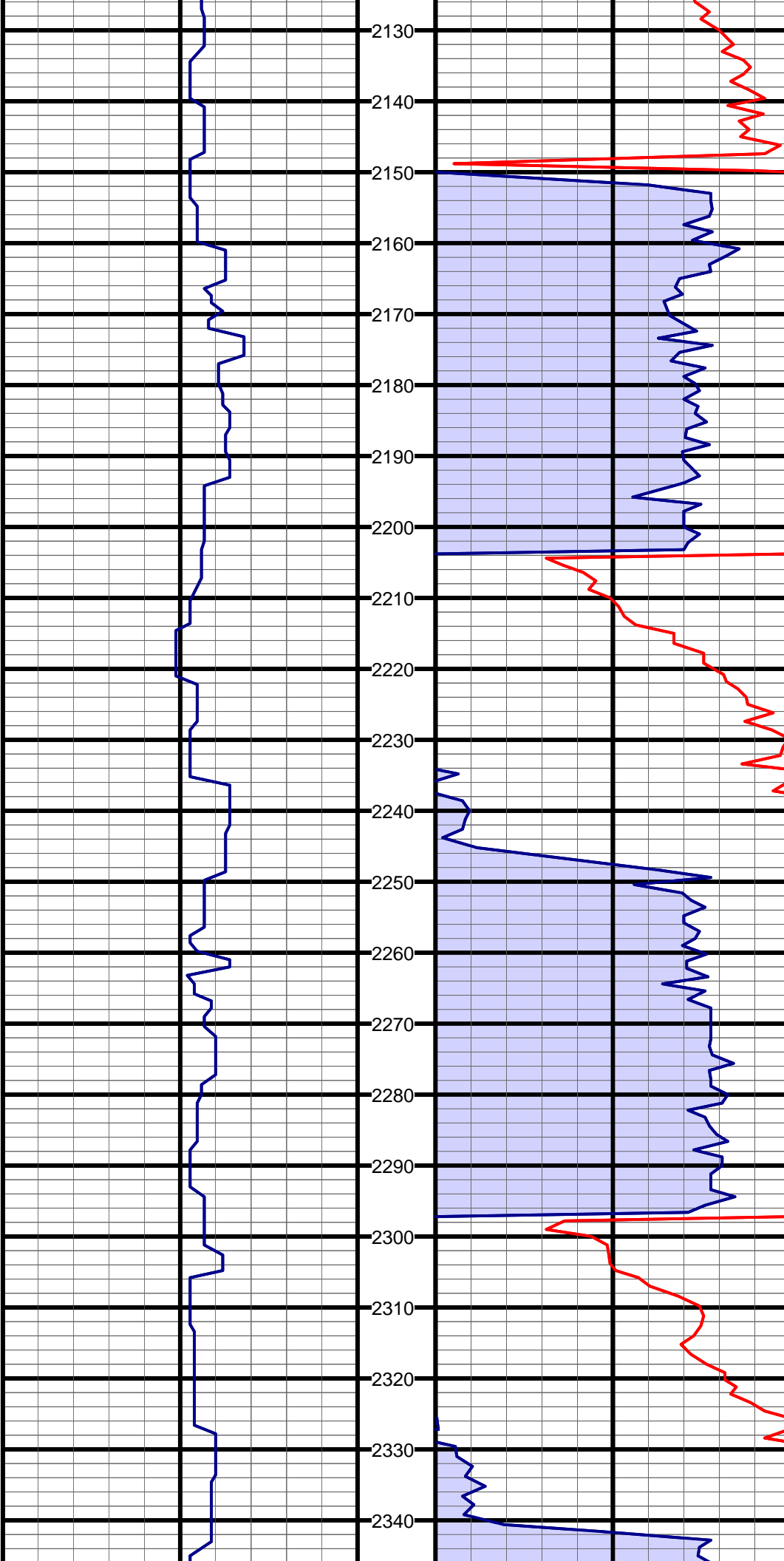
#2 MD:1782.0 TVD:1782.0 I:0.9 A:231.0 VS:-1.6

#3 MD:1876.0 TVD:1875.9 I:2.8 A:215.0 VS:-3.9



#4 MD:1970.0 TVD:1969.7 I:5.4 A:199.0 VS:-9.8

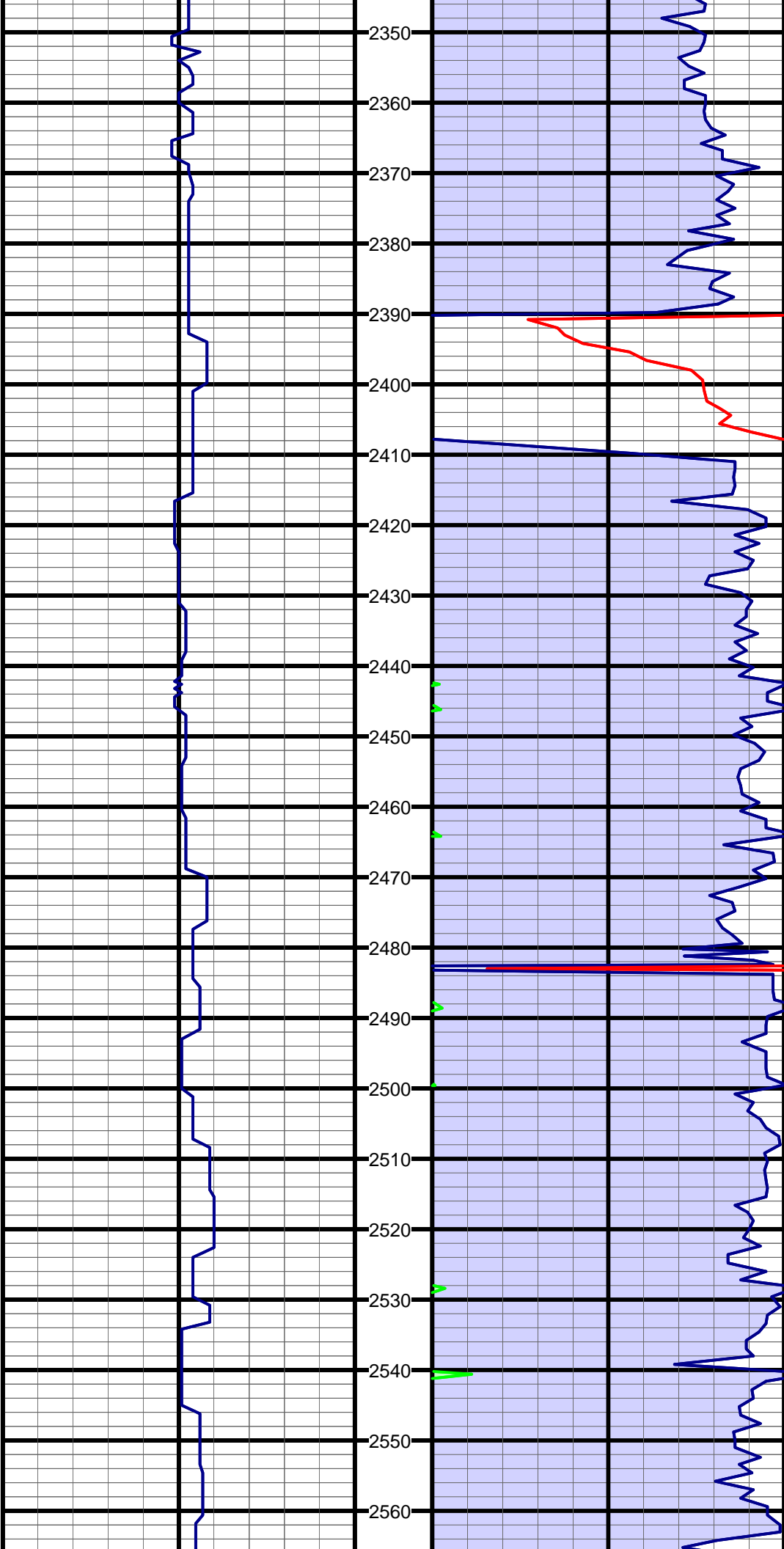
#5 MD:2062.0 TVD:2061.0 I:8.1 A:195.3 VS:-20.0



#6 MD:2155.0 TVD:2152.9 I:10.2 A:197.8 VS:-33.9

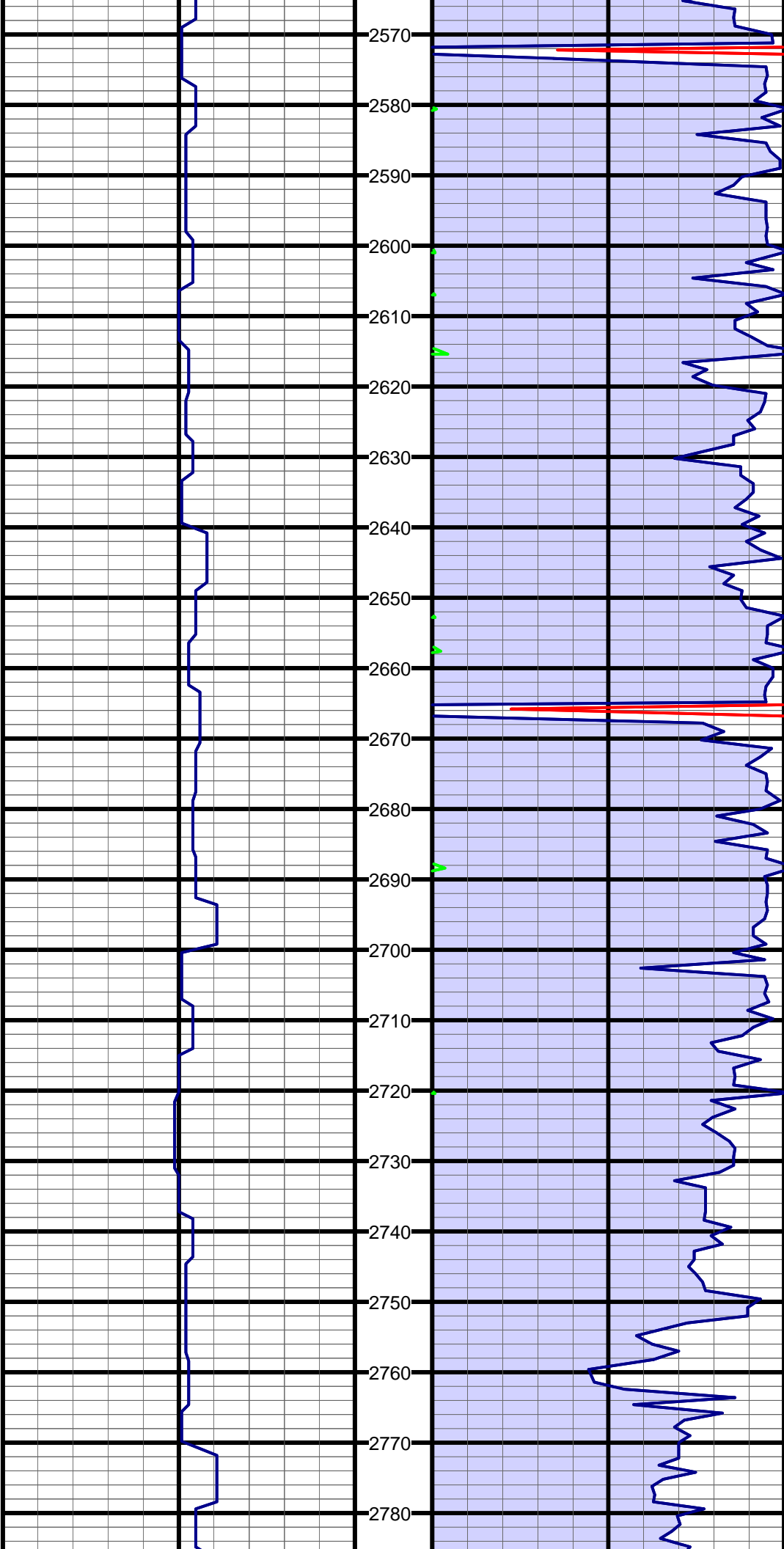
#7 MD:2249.0 TVD:2245.0 I:12.4 A:197.6 VS:-51.2

#8 MD:2341.0 TVD:2334.5 I:14.7 A:200.6 VS:-71.2



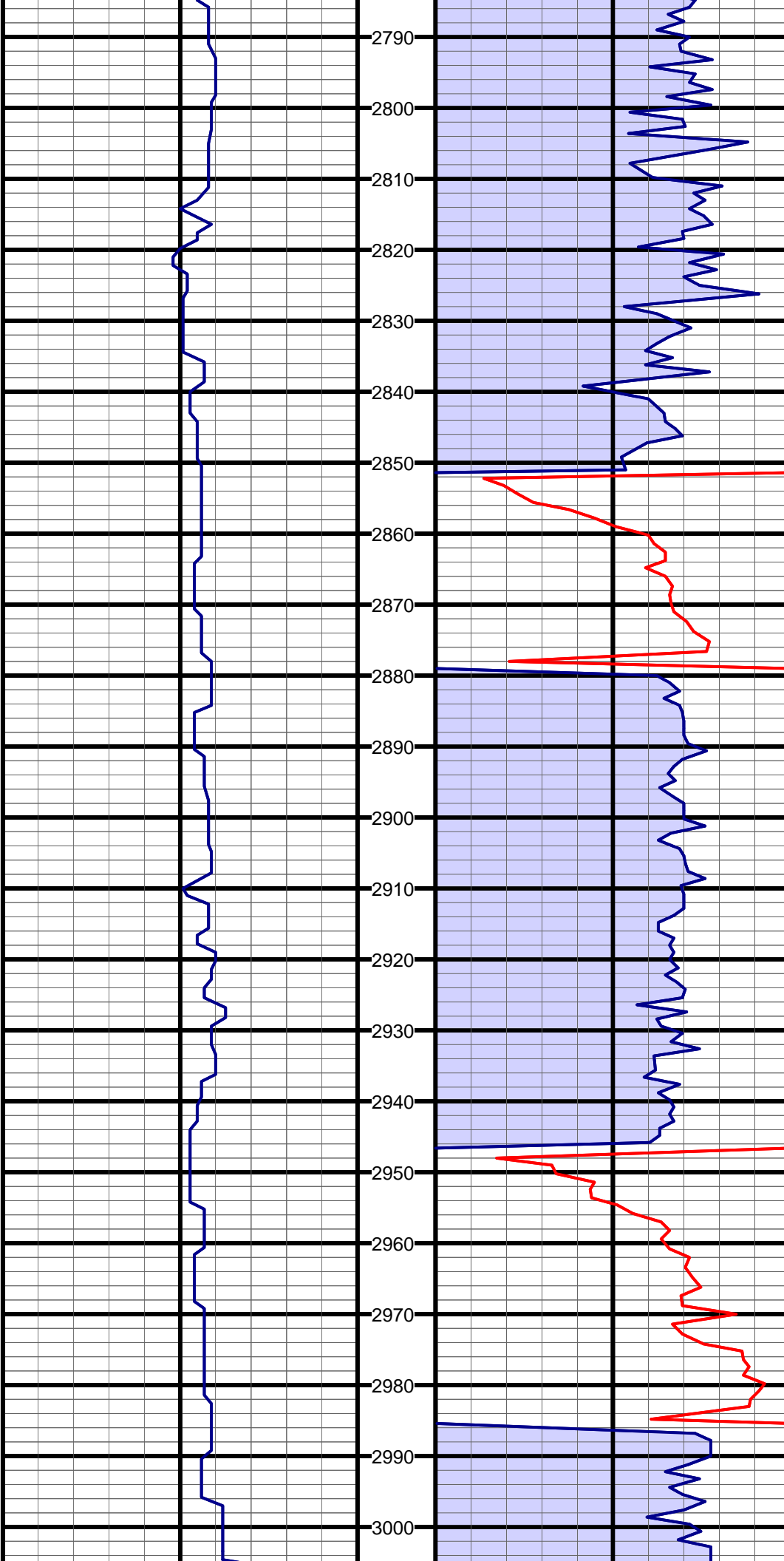
#9 MD:2434.0 TVD:2424.2 I:15.8 A:202.3 VS:-93.5

#10 MD:2526.0 TVD:2512.8 I:15.5 A:201.7 VS:-116.1



#11 MD:2619.0 TVD:2602.4 I:15.3 A:201.6 VS:-138.6

#12 MD:2713.0 TVD:2693.1 I:15.1 A:200.5 VS:-161.2

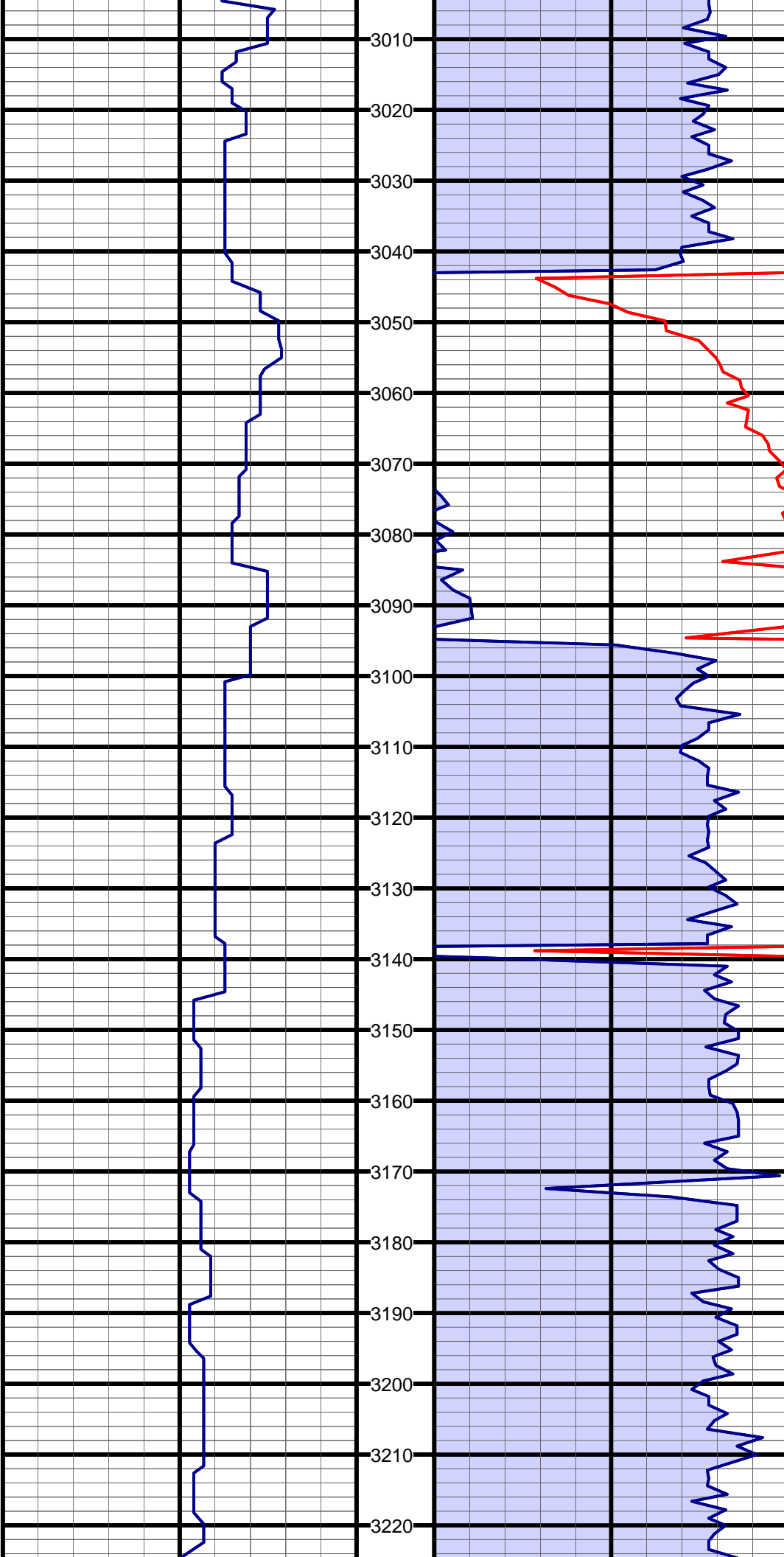


#13 MD:2807.0 TVD:2784.2 I:13.9 A:200.0 VS:-182.9

#14 MD:2902.0 TVD:2876.4 I:13.6 A:198.7 VS:-203.8

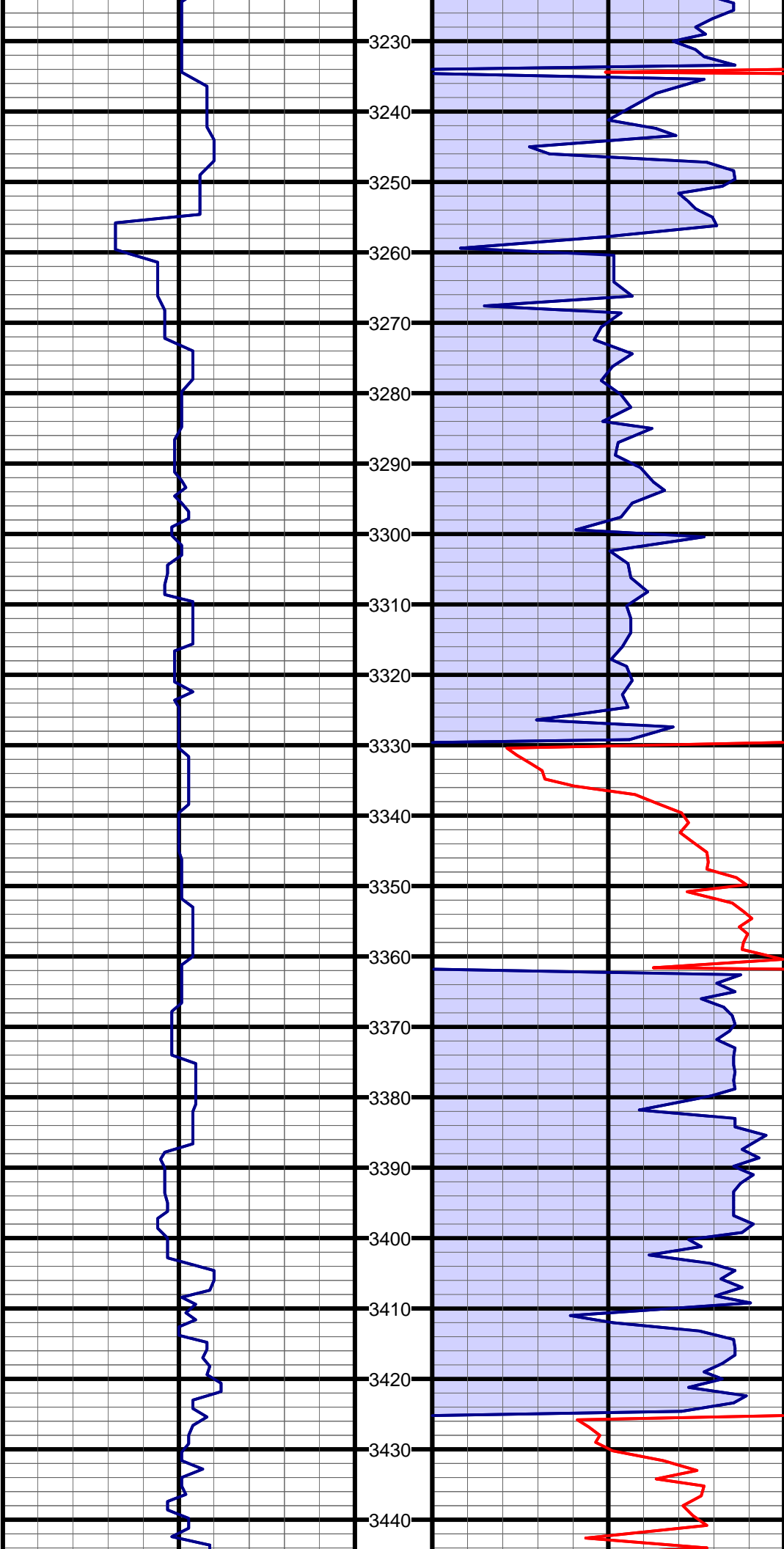
#15 MD:2997.0 TVD:2968.7 I:13.7 A:198.2 VS:-224.7





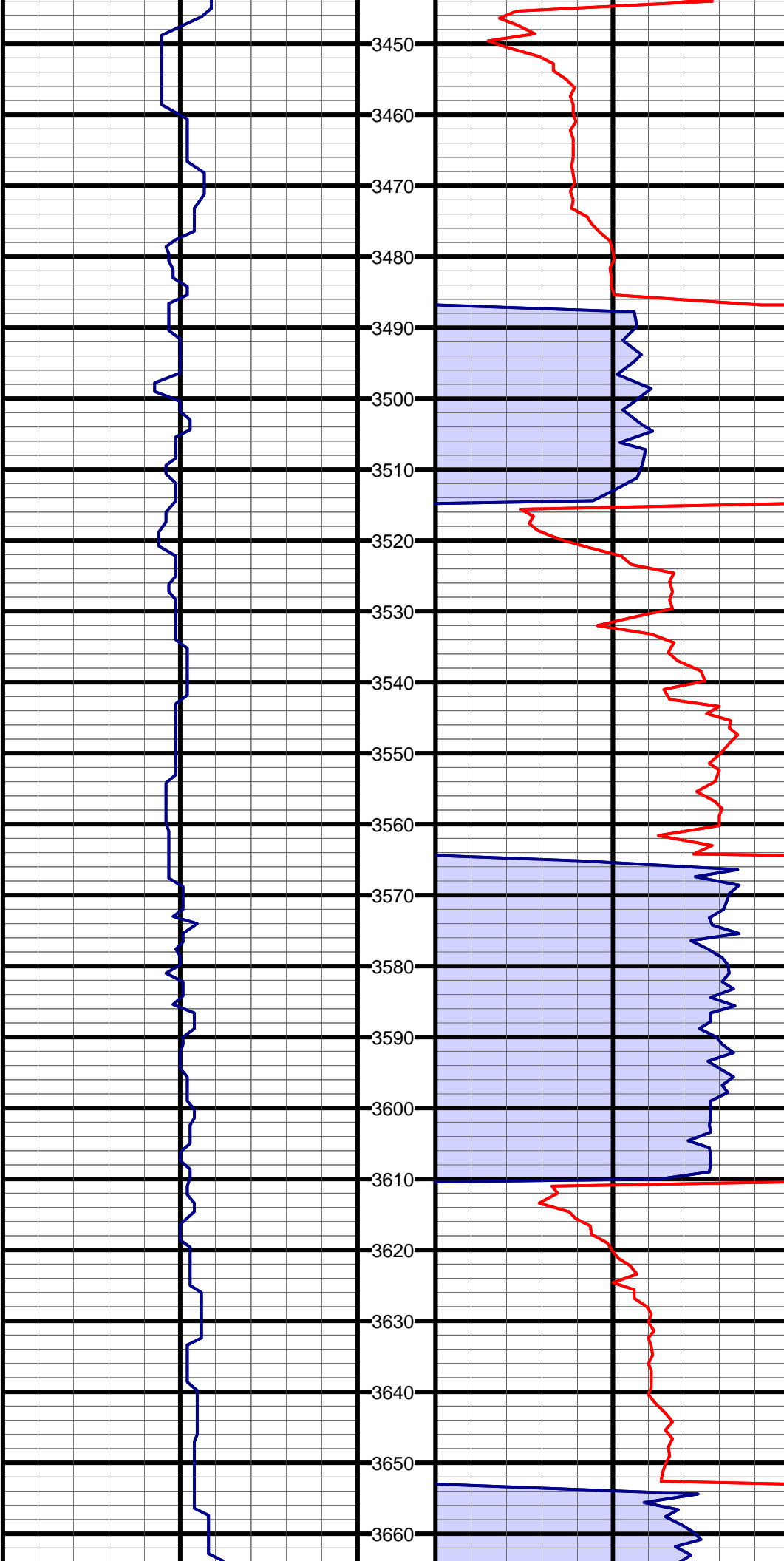
#16 MD:3092.0 TVD:3060.7 I:15.3 A:197.0 VS:-247.0

#17 MD:3187.0 TVD:3152.2 I:15.8 A:198.3 VS:-270.9



#18 MD:3282.0 TVD:3243.5 I:16.4 A:196.1 VS:-295.7

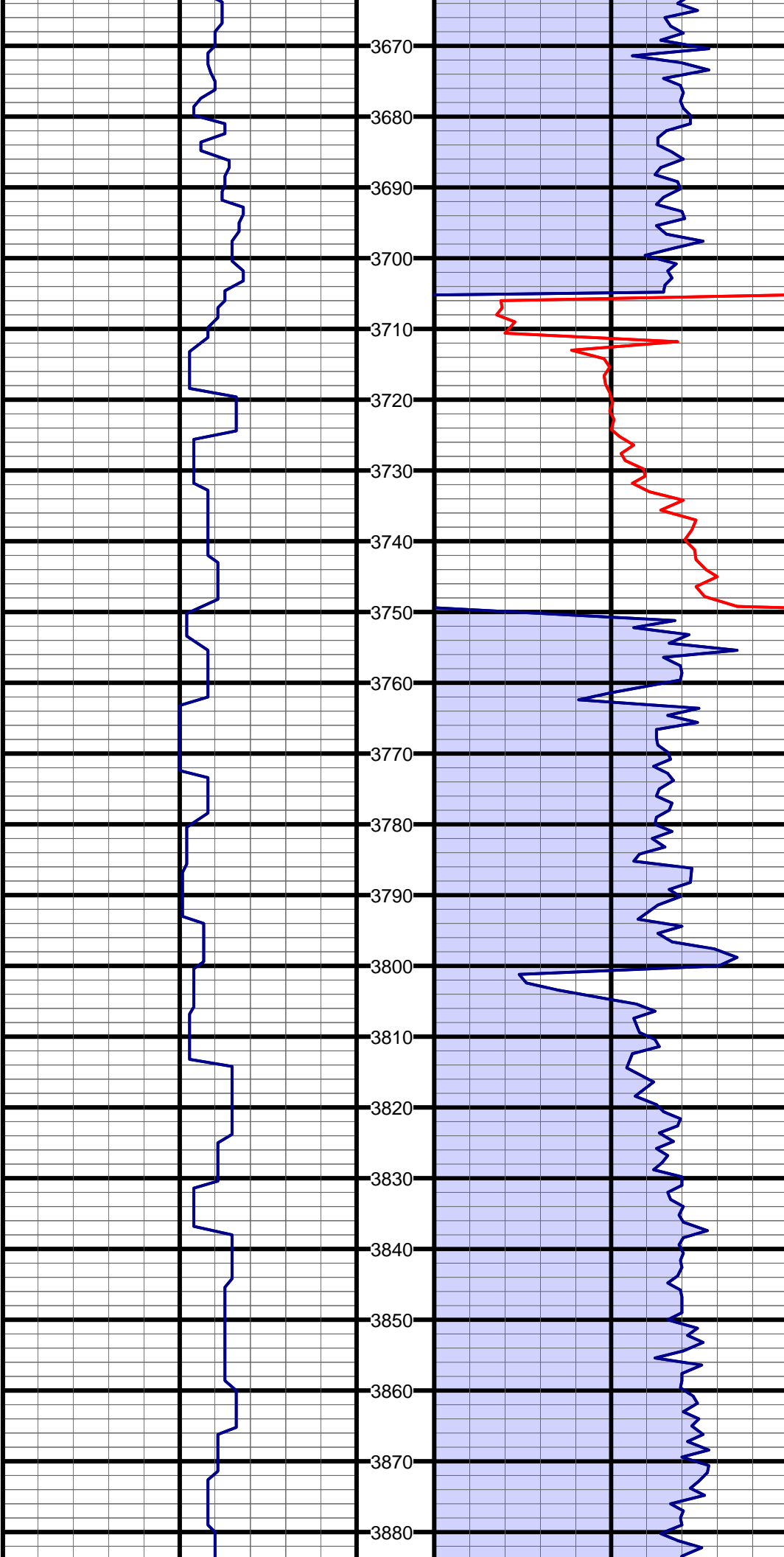
#19 MD:3377.0 TVD:3334.5 I:16.9 A:189.4 VS:-321.9



#20 MD:3472.0 TVD:3425.9 I:14.9 A:195.1 VS:-347.1

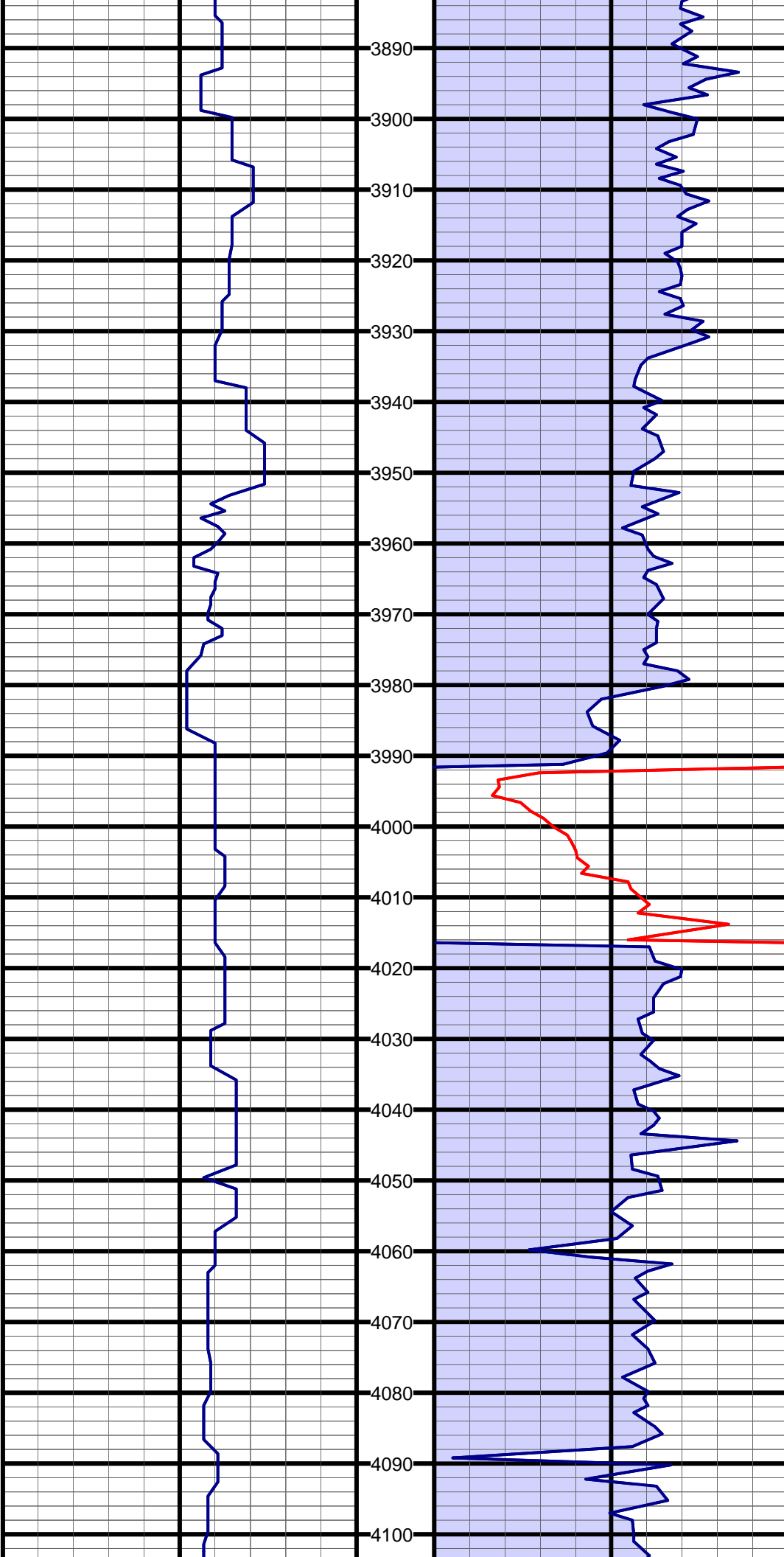
#21 MD:3567.0 TVD:3518.3 I:12.0 A:200.3 VS:-367.8

#22 MD:3662.0 TVD:3611.6 I:9.4 A:202.1 VS:-383.9



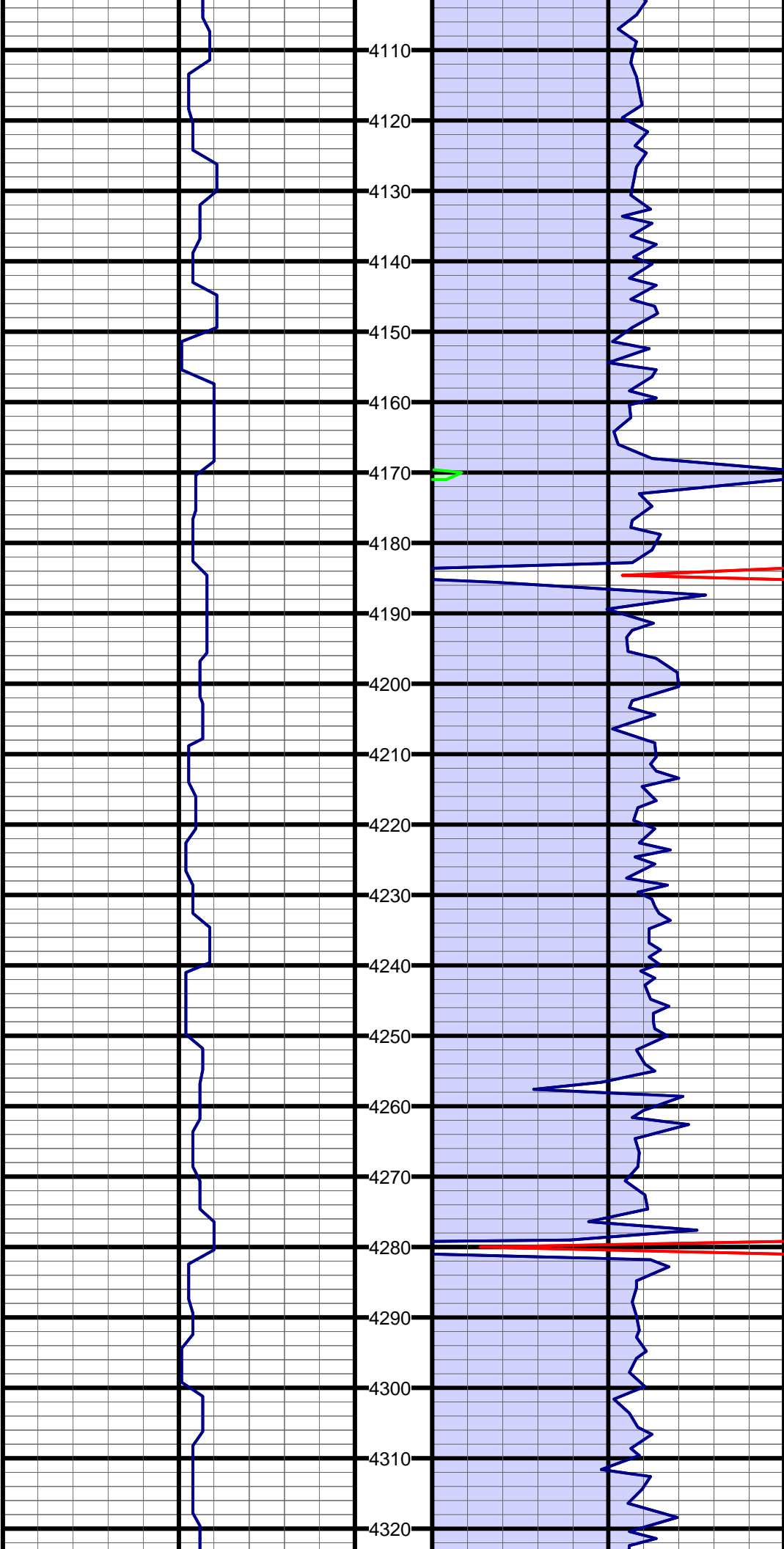
#23 MD:3757.0 TVD:3705.7 I:6.3 A:201.9 VS:-395.7

#24 MD:3852.0 TVD:3800.2 I:5.7 A:197.3 VS:-404.9



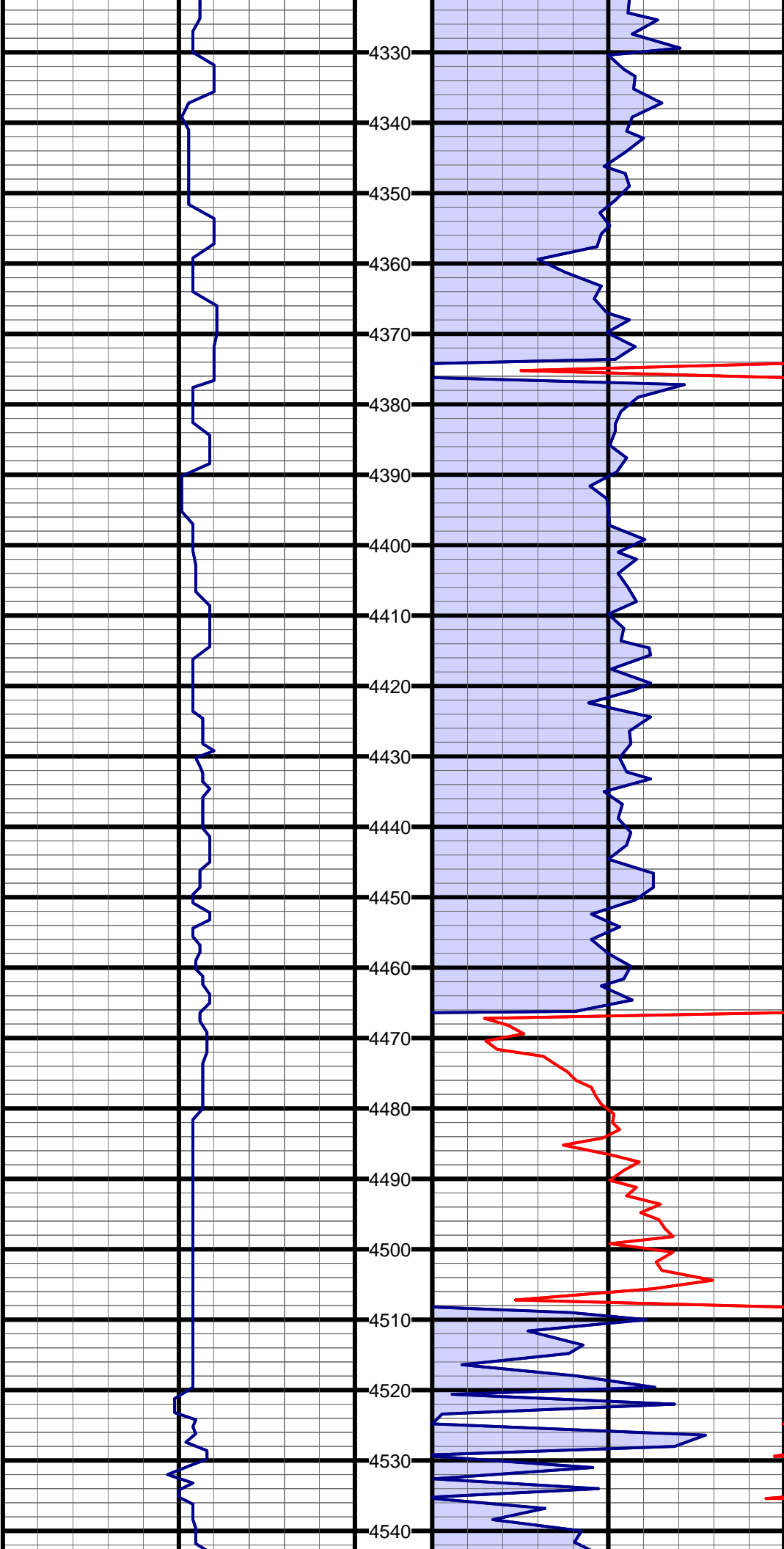
#25 MD:3947.0 TVD:3894.8 I:5.2 A:188.1 VS:-413.6

#26 MD:4042.0 TVD:3989.4 I:5.5 A:198.1 VS:-422.1



#27 MD:4136.0 TVD:4083.0 I:4.7 A:199.1 VS:-429.9

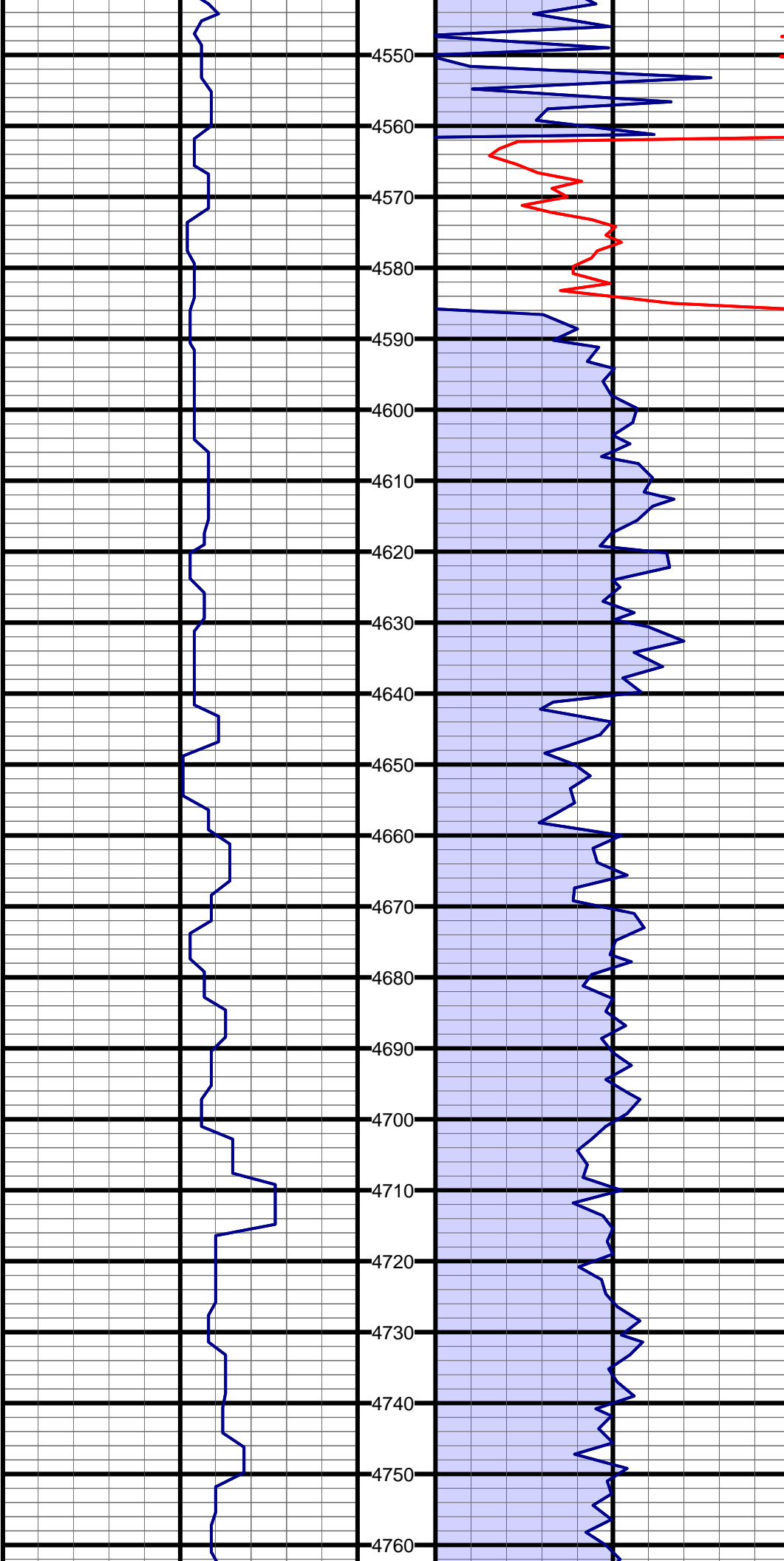
#28 MD:4231.0 TVD:4177.7 I:4.0 A:200.7 VS:-436.5



#29 MD:4326.0 TVD:4272.5 I:3.3 A:197.7 VS:-442.1

#30 MD:4421.0 TVD:4367.4 I:2.4 A:157.6 VS:-446.6

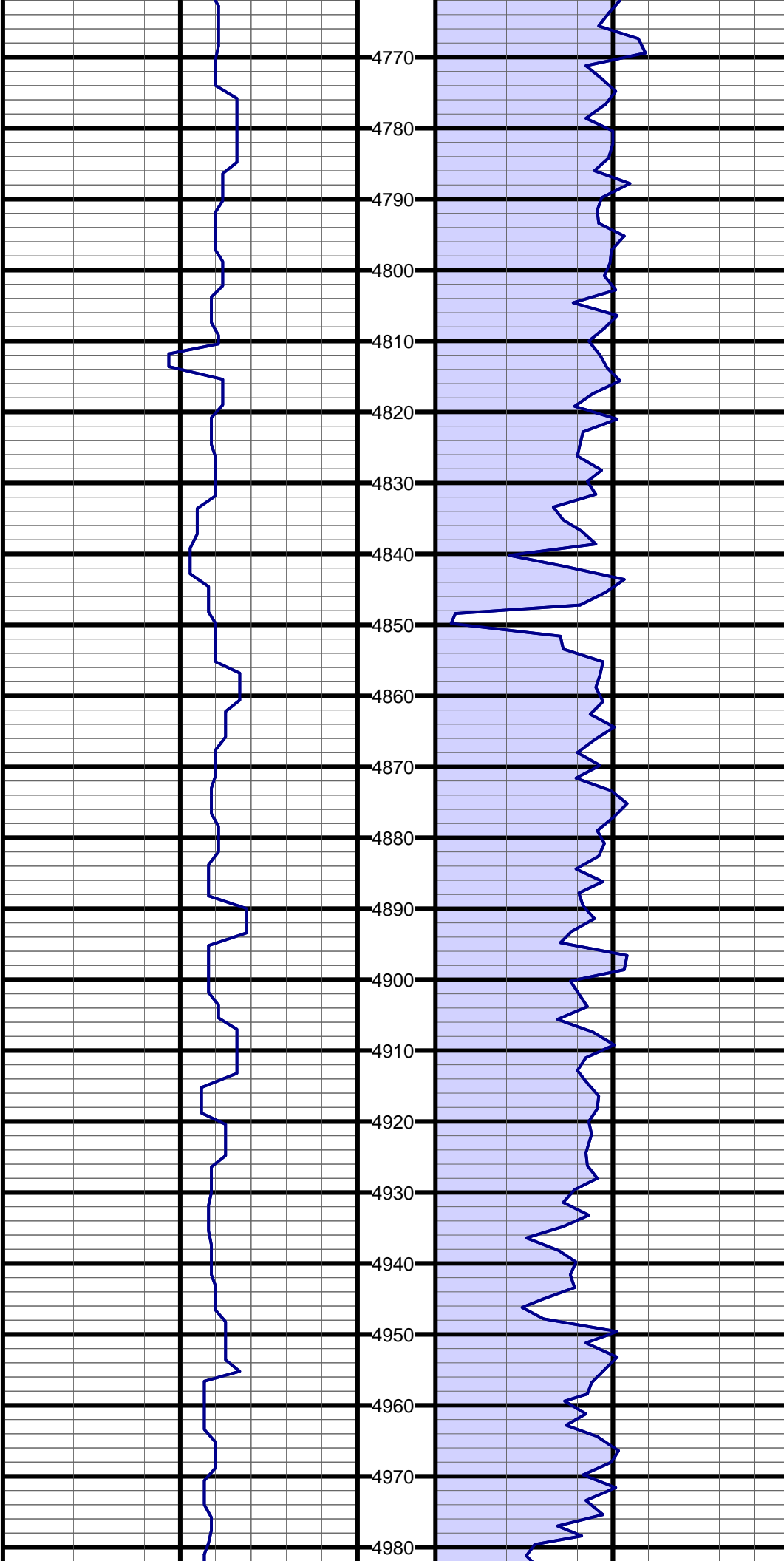
#31 MD:4516.0 TVD:4462.4 I:0.2 A:347.4 VS:-448.3



#32 MD:4611.0 TVD:4557.4 I:1.3 A:340.0 VS:-447.1

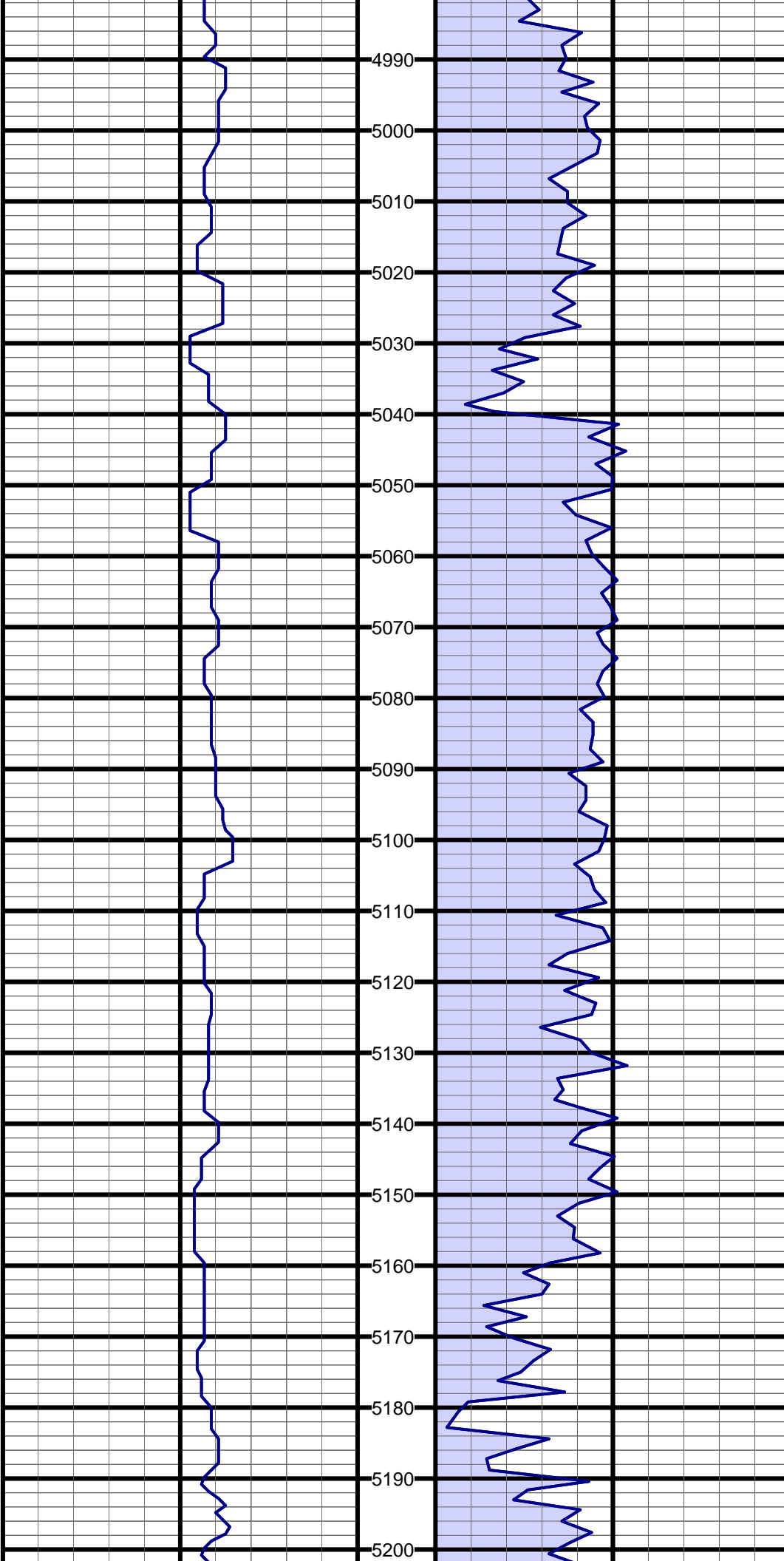
#33 MD:4706.0 TVD:4652.4 I:1.7 A:307.5 VS:-445.1





#34 MD:4801.0 TVD:4747.3 I:0.7 A:263.8 VS:-444.3

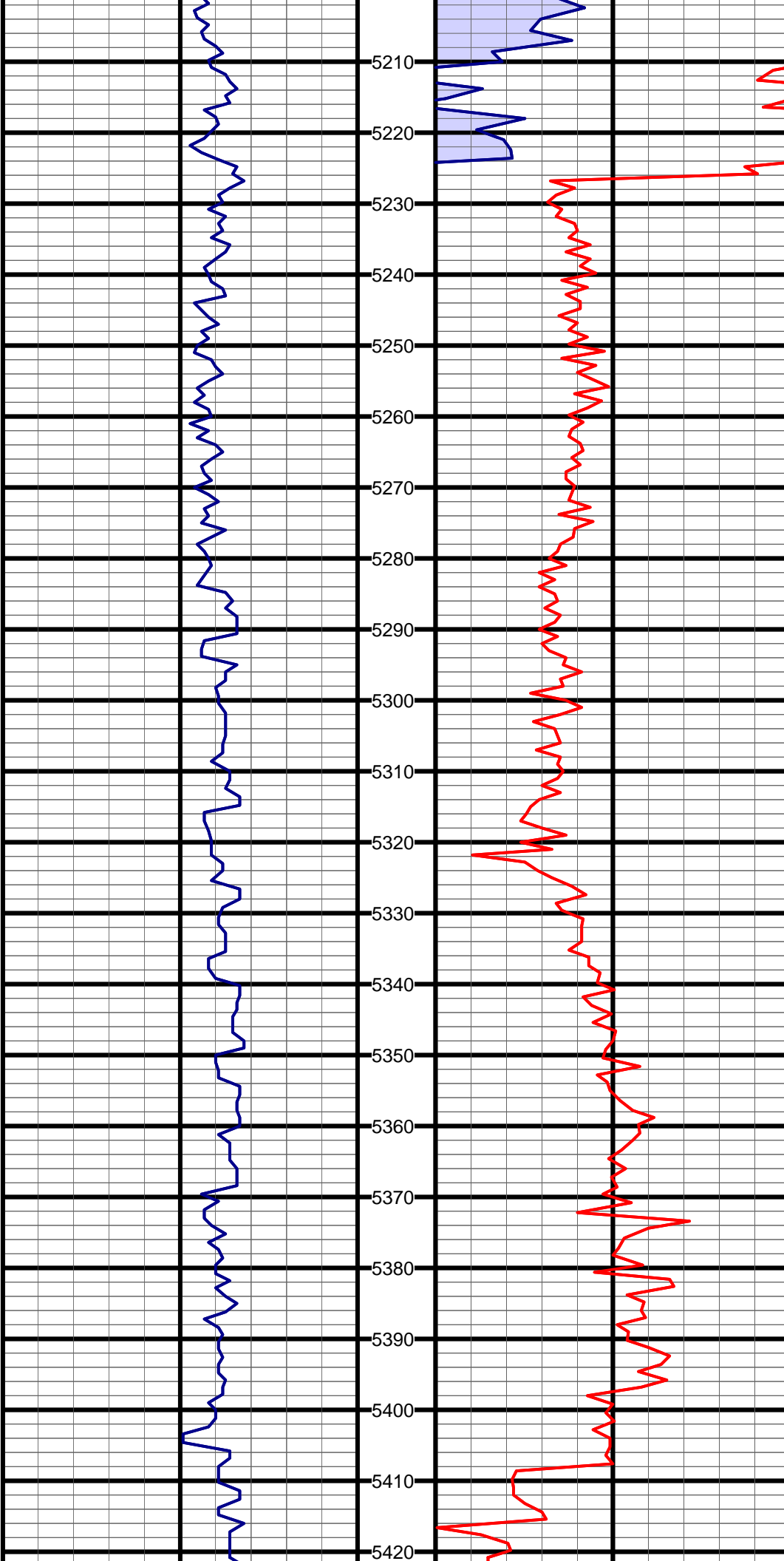
#35 MD:4896.0 TVD:4842.3 I:0.4 A:237.7 VS:-444.5



#36 MD:4991.0 TVD:4937.3 I:0.4 A:146.9 VS:-444.9

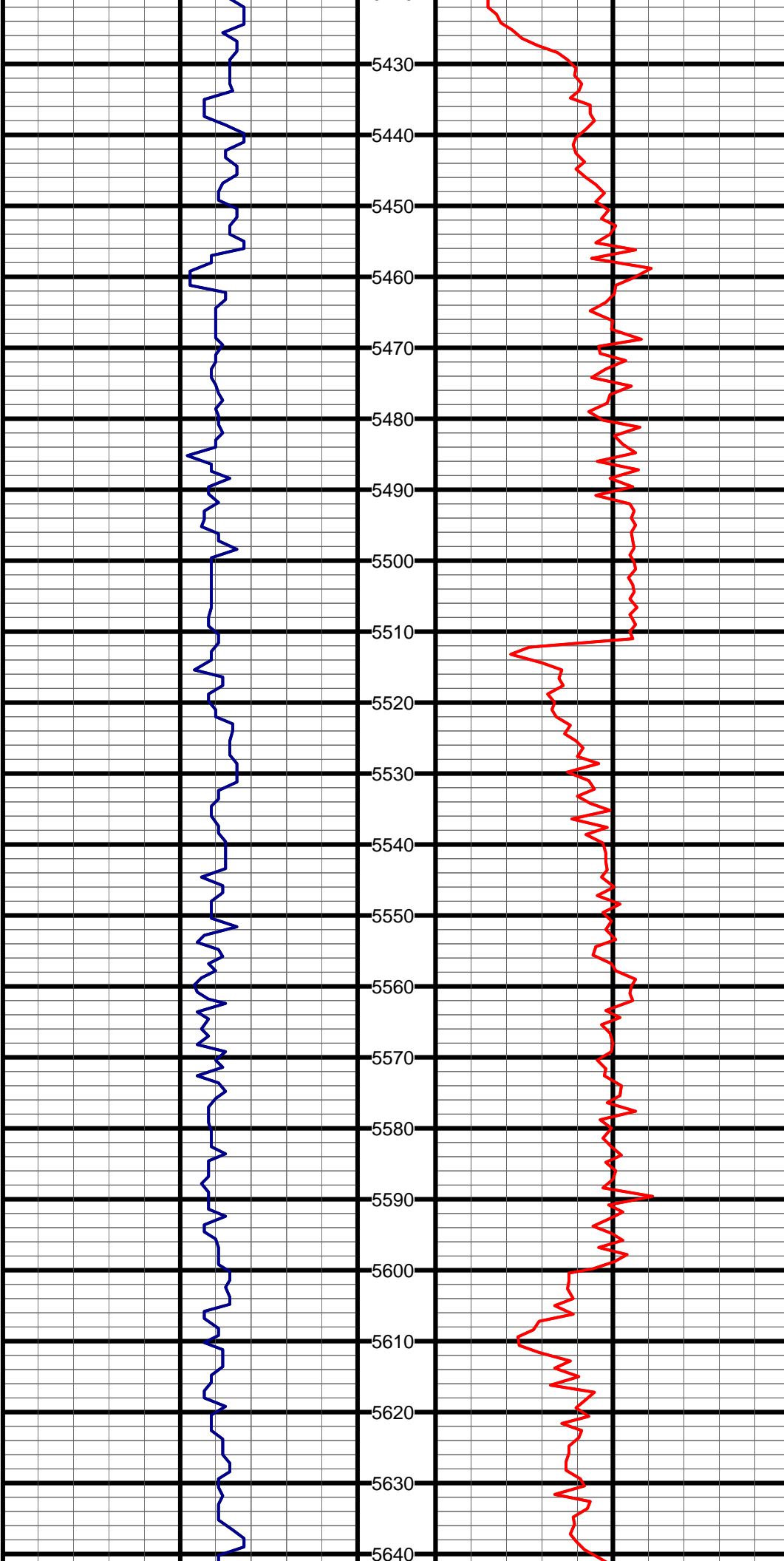
#37 MD:5086.0 TVD:5032.3 I:0.2 A:105.9 VS:-445.3

#38 MD:5181.0 TVD:5127.3 I:0.1 A:96.2 VS:-445.3



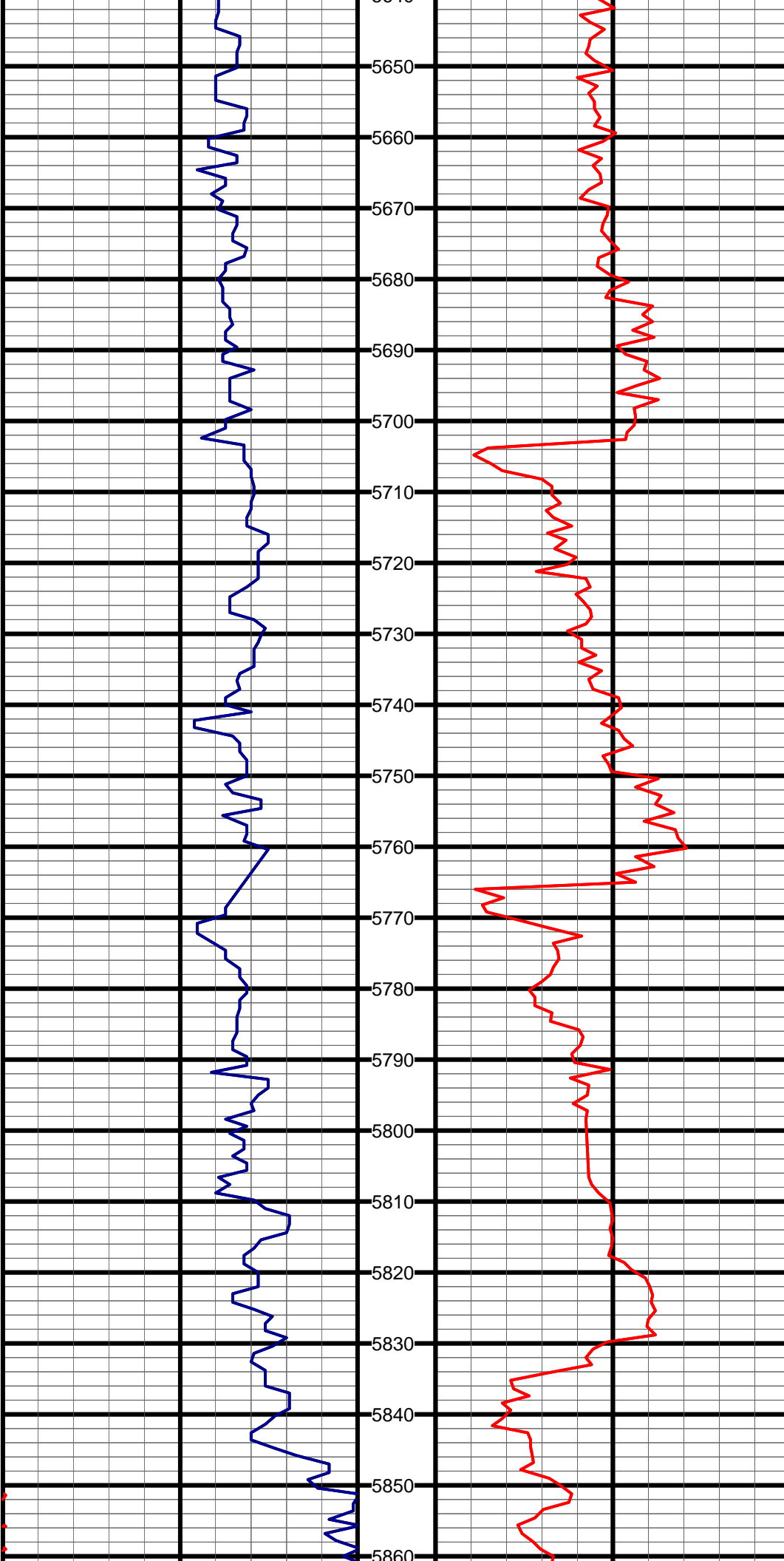
#39 MD:5276.0 TVD:5222.3 I:0.1 A:50.0 VS:-445.3

#40 MD:5371.0 TVD:5317.0 I:8.4 A:351.2 VS:-438.3



#41 MD:5466.0 TVD:5410.4 I:12.7 A:356.6 VS:-421.0

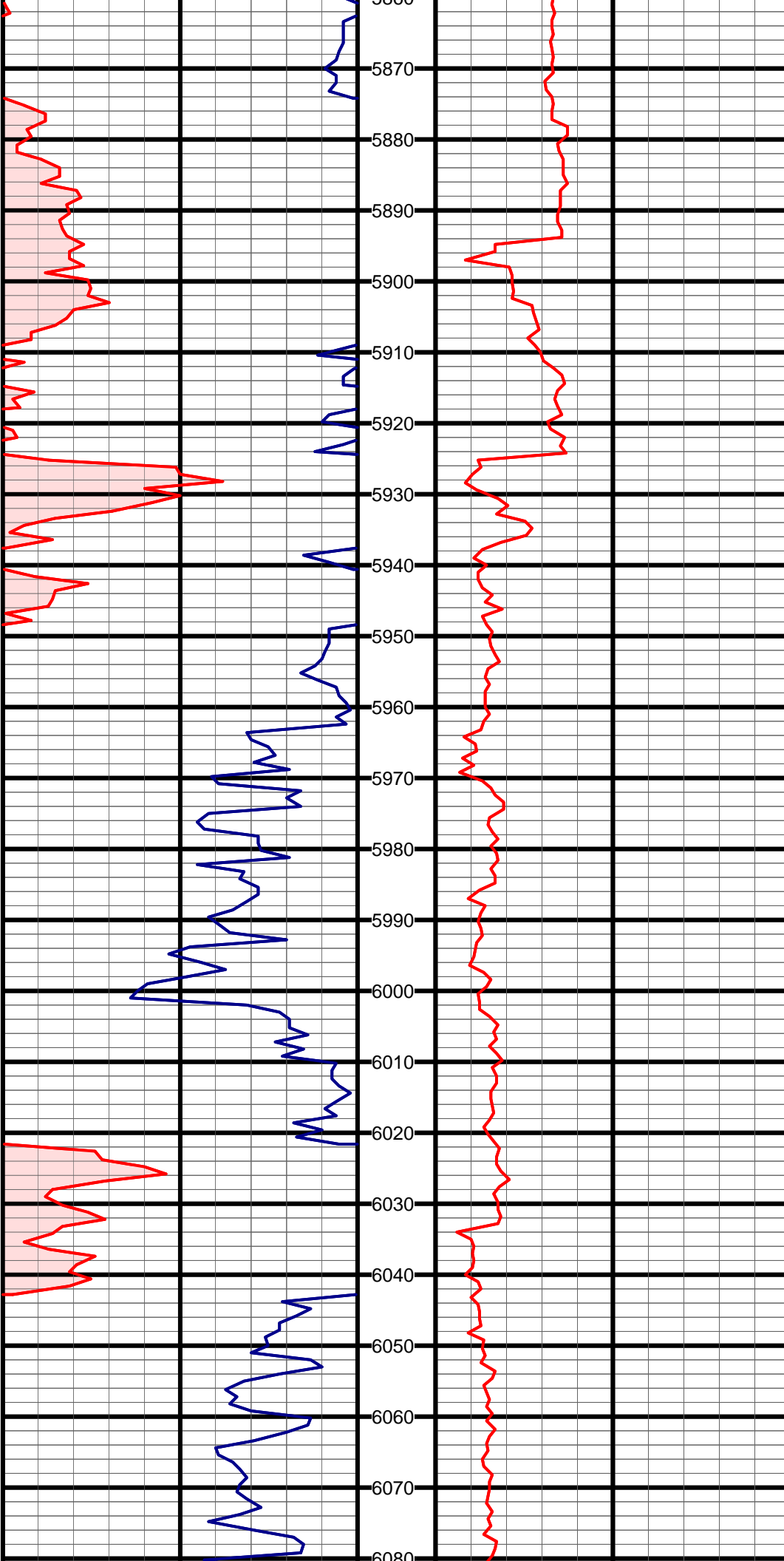
#42 MD:5561.0 TVD:5502.0 I:17.6 A:6.2 VS:-396.3



#43 MD:5656.0 TVD:5590.5 I:25.0 A:359.2 VS:-362.0

#44 MD:5751.0 TVD:5673.9 I:32.2 A:356.9 VS:-316.6

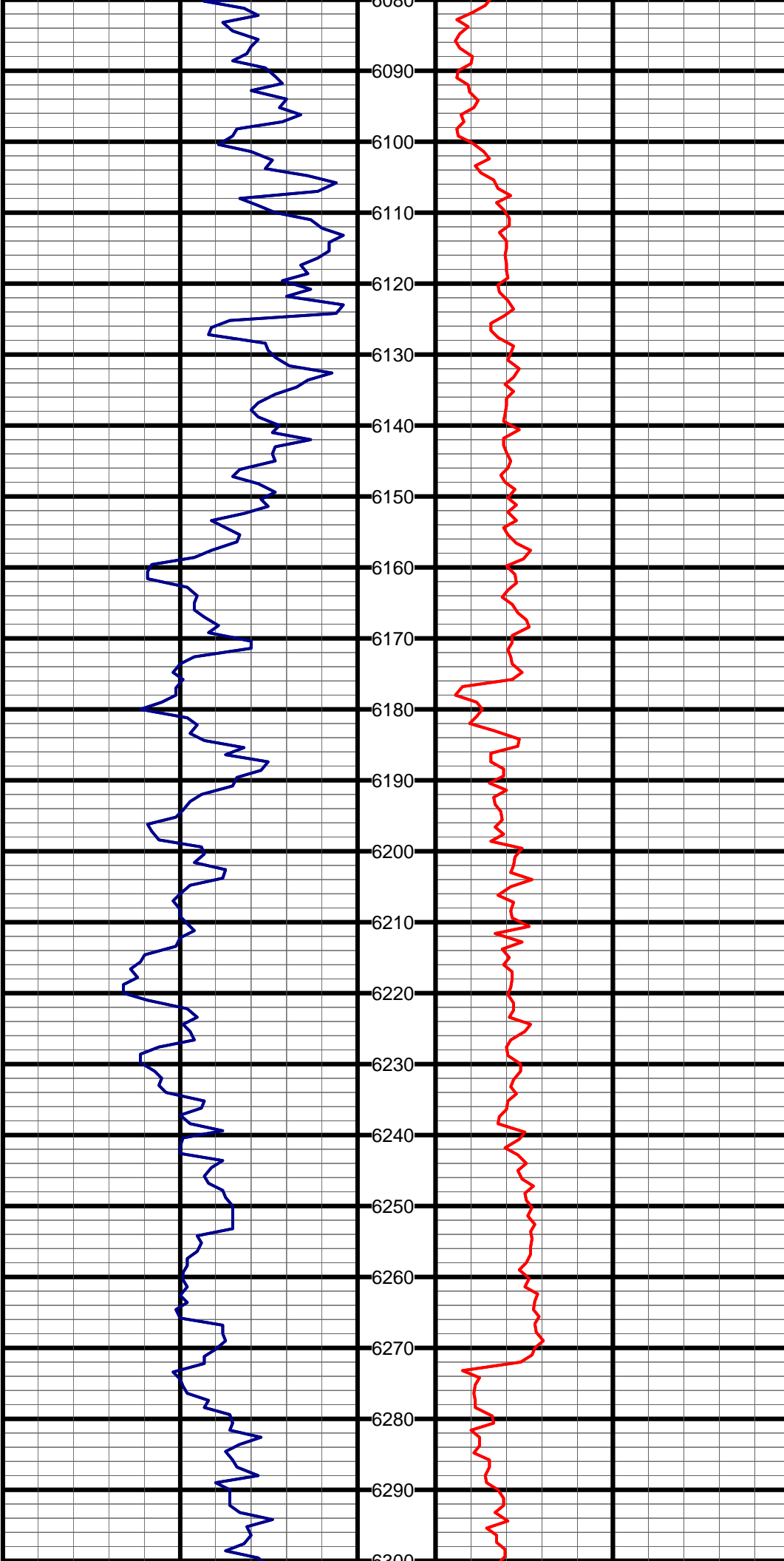
#45 MD:5846.0 TVD:5751.5 I:38.1 A:355.2 VS:-261.9



#46 MD:5941.0 TVD:5822.4 I:45.3 A:2.0 VS:-198.9

#47 MD:5986.0 TVD:5852.9 I:49.4 A:3.3 VS:-165.9

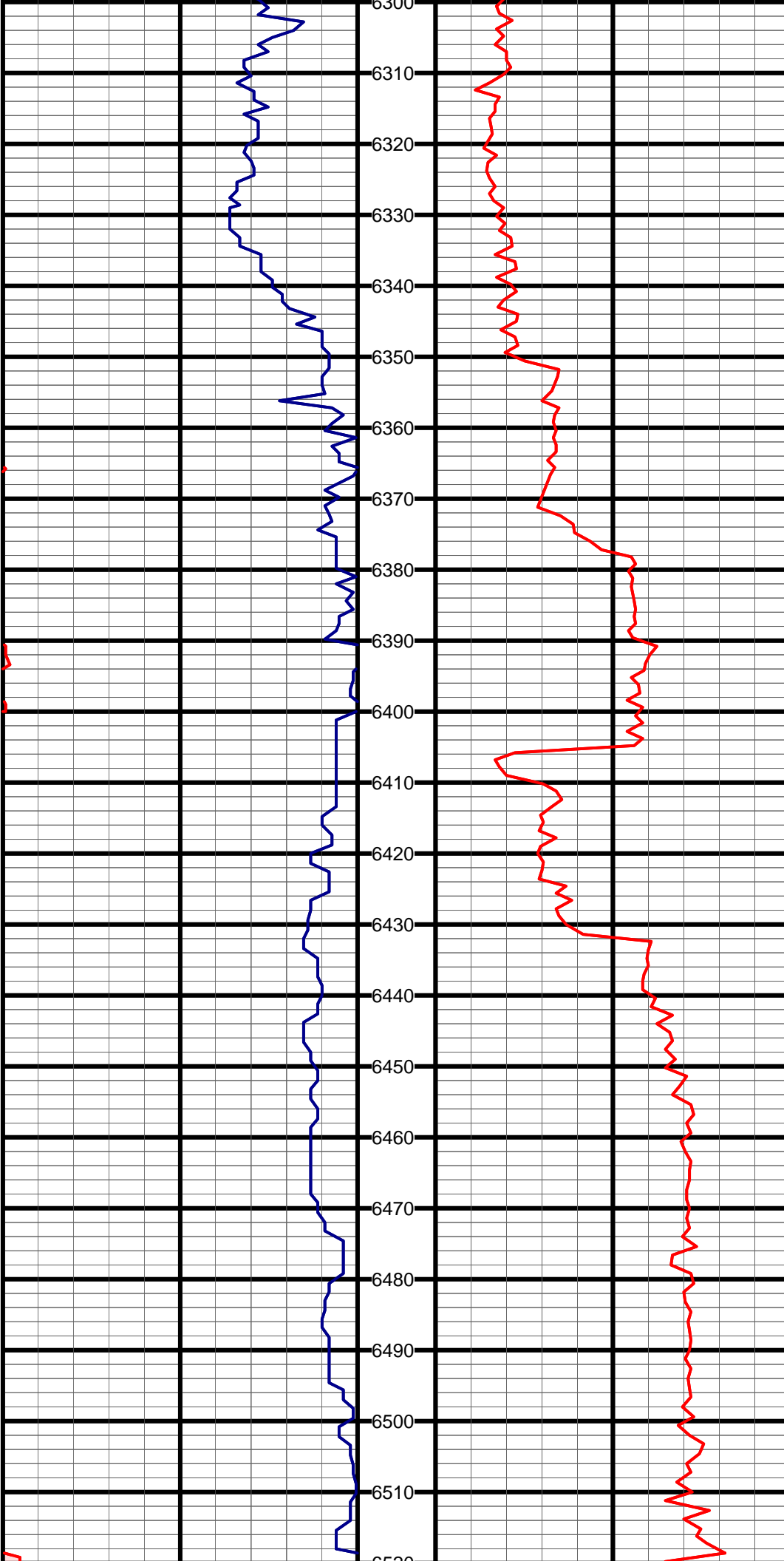
#48 MD:6036.0 TVD:5883.7 I:54.6 A:2.6 VS:-126.7



#49 MD:6131.0 TVD:5931.4 I:65.0 A:2.6 VS:-45.1

#50 MD:6226.0 TVD:5962.7 I:76.5 A:2.5 VS:44.1

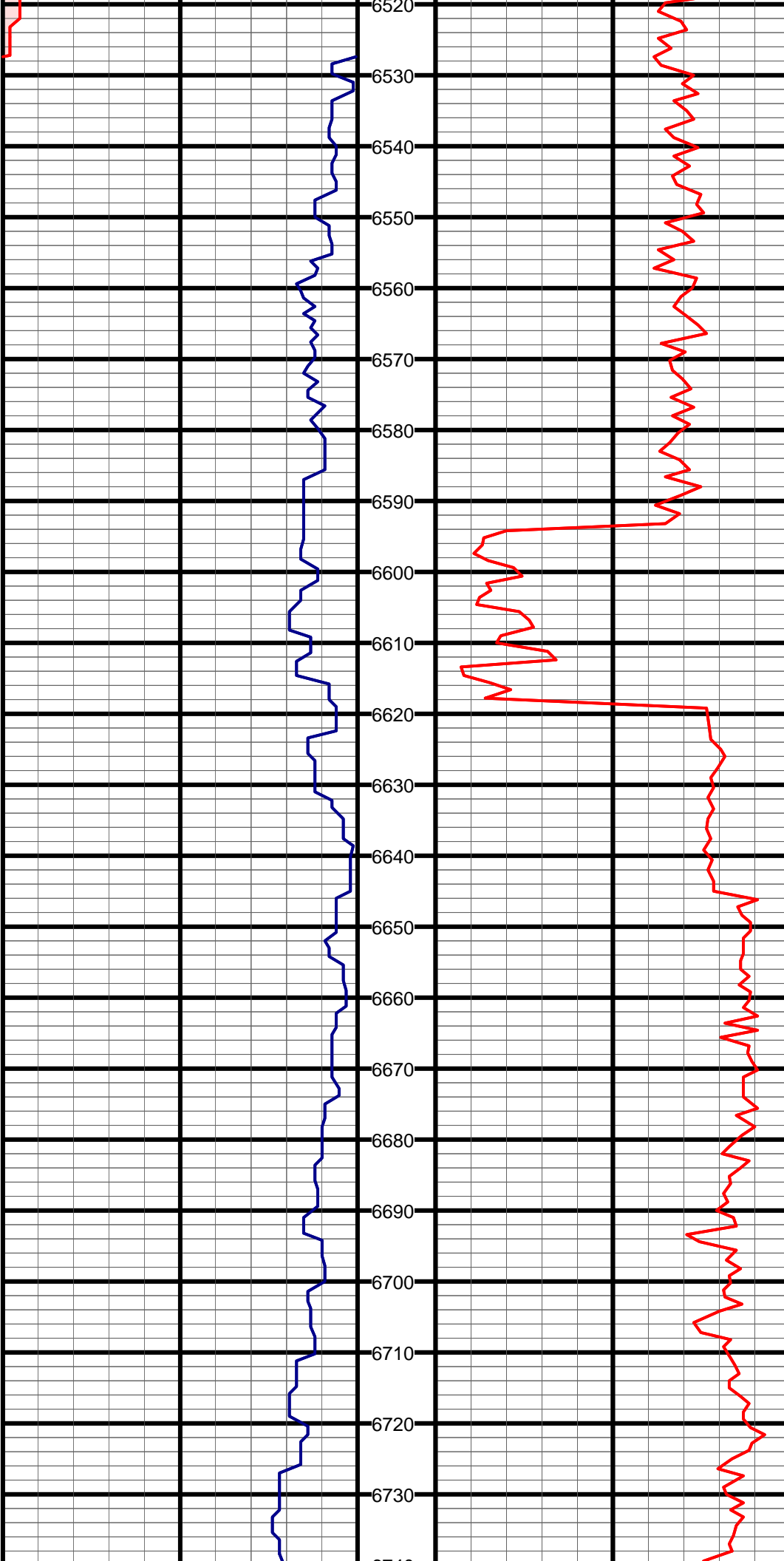
#51 MD:6266.0 TVD:5970.4 I:81.1 A:2.8 VS:83.2



#52 MD:6321.0 TVD:5975.2 I:88.9 A:1.5 VS:137.7

#53 MD:6455.0 TVD:5977.3 I:89.3 A:0.5 VS:271.4



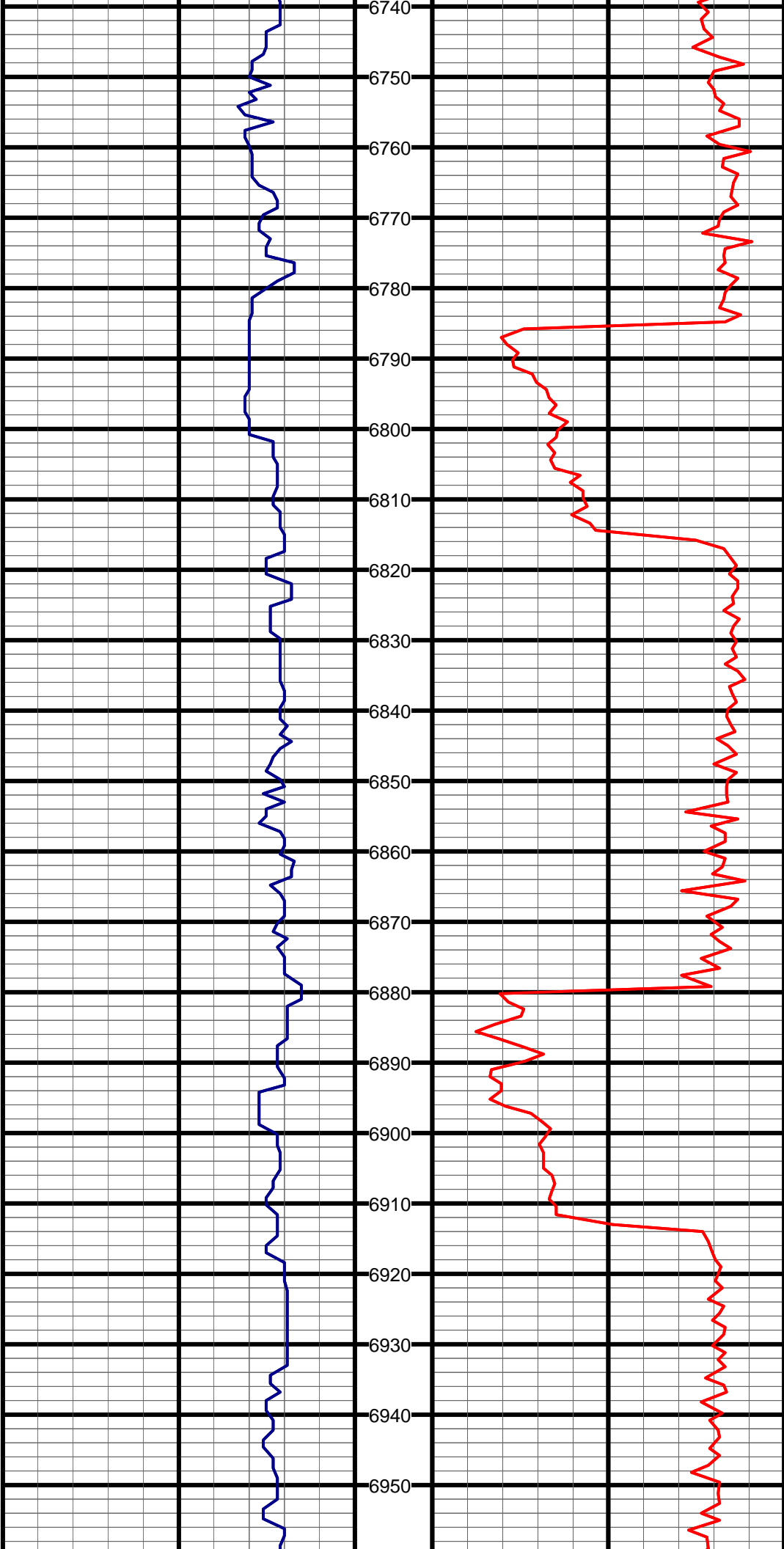


#54 MD:6550.0 TVD:5977.2 I:90.9 A:2.3 VS:366.2

#55 MD:6645.0 TVD:5976.3 I:90.1 A:0.9 VS:460.9

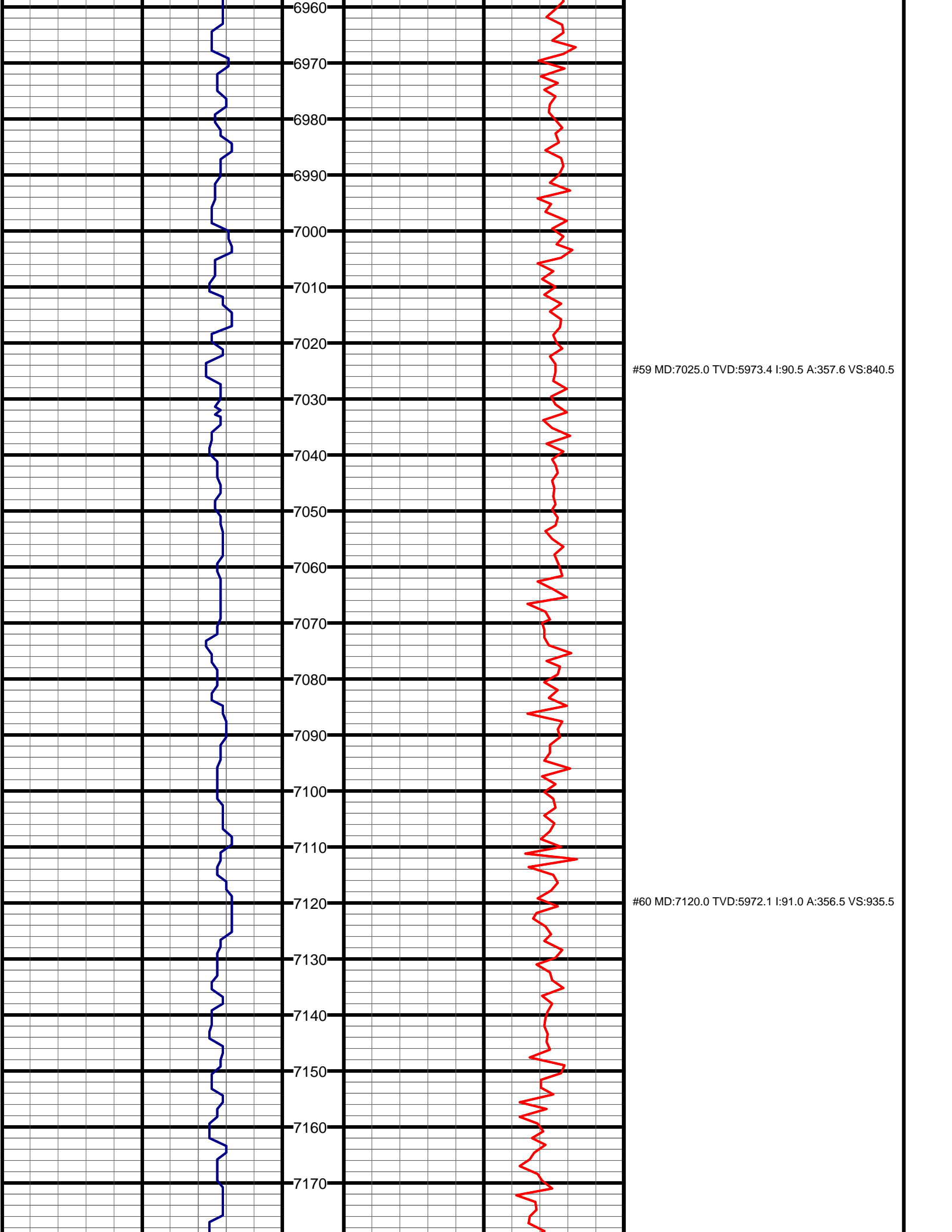
#56 MD:6740.0 TVD:5975.5 I:90.0 A:1.0 VS:555.7

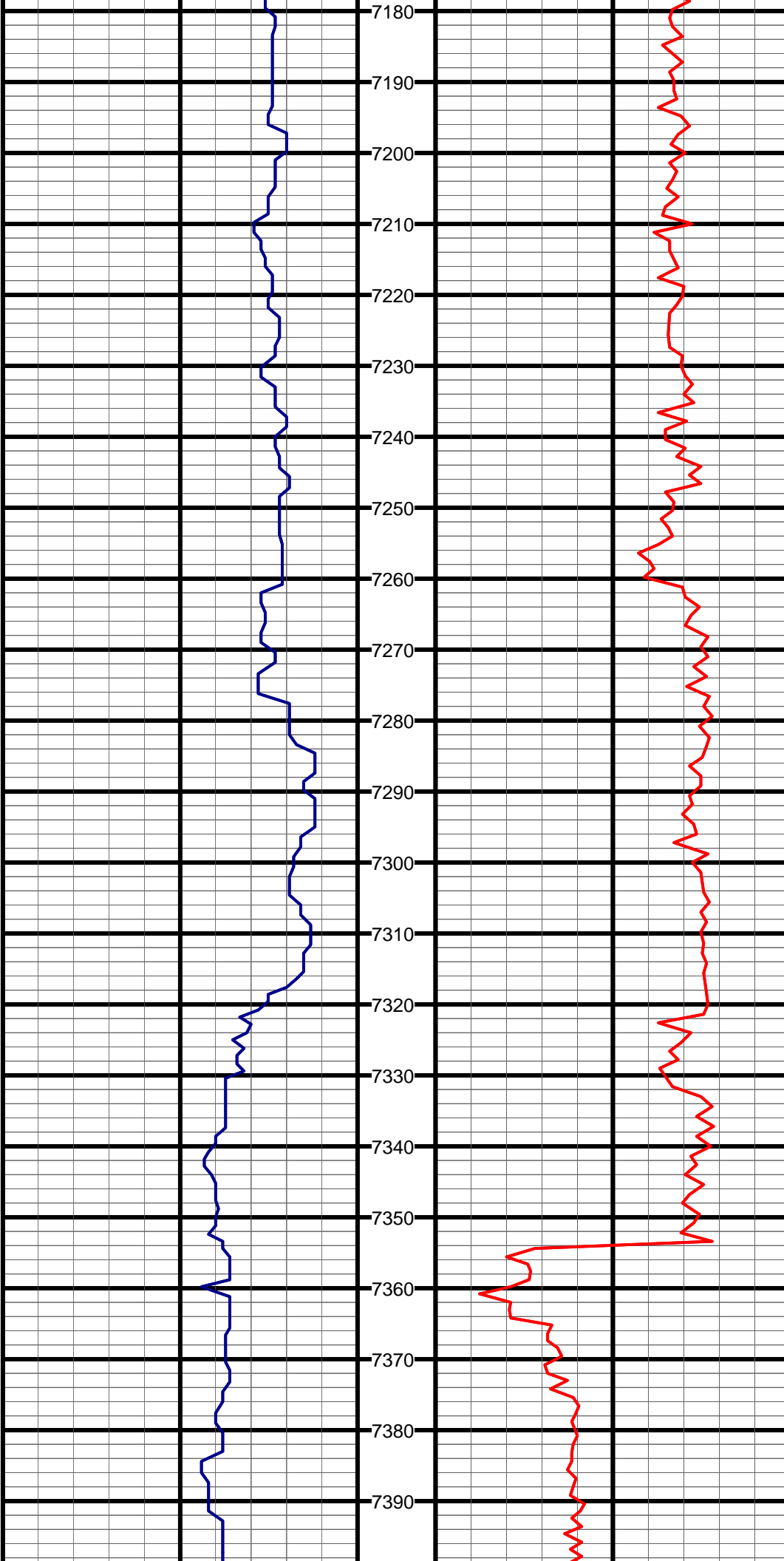
#56 MD:6740.0 TVD:5975.5 I:90.9 A:1.9 VS:555.7



#57 MD:6835.0 TVD:5974.4 I:90.4 A:359.3 VS:650.5

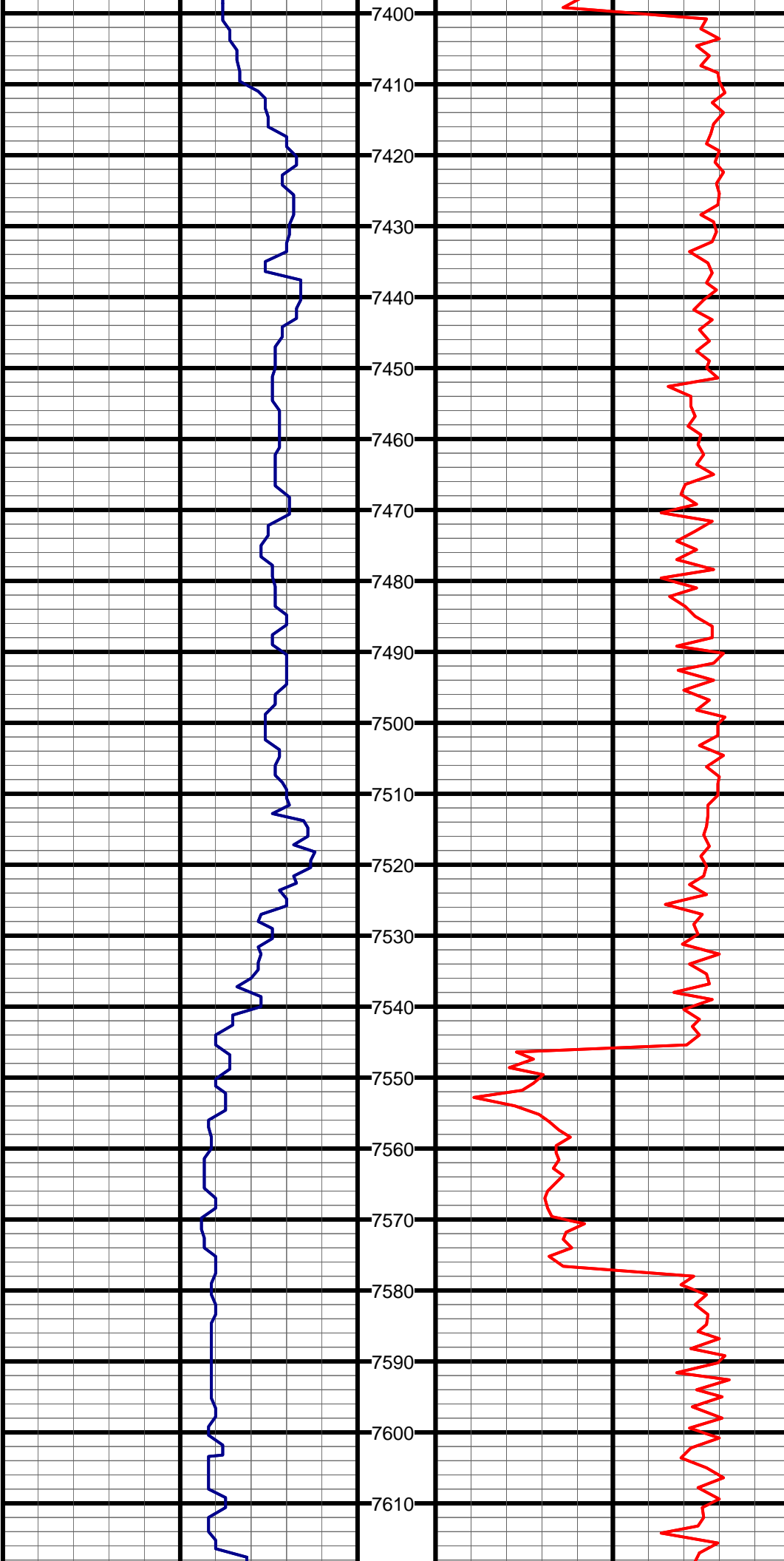
#58 MD:6930.0 TVD:5973.9 I:90.2 A:357.4 VS:745.5





#61 MD:7215.0 TVD:5970.6 I:90.8 A:356.4 VS:1030.5

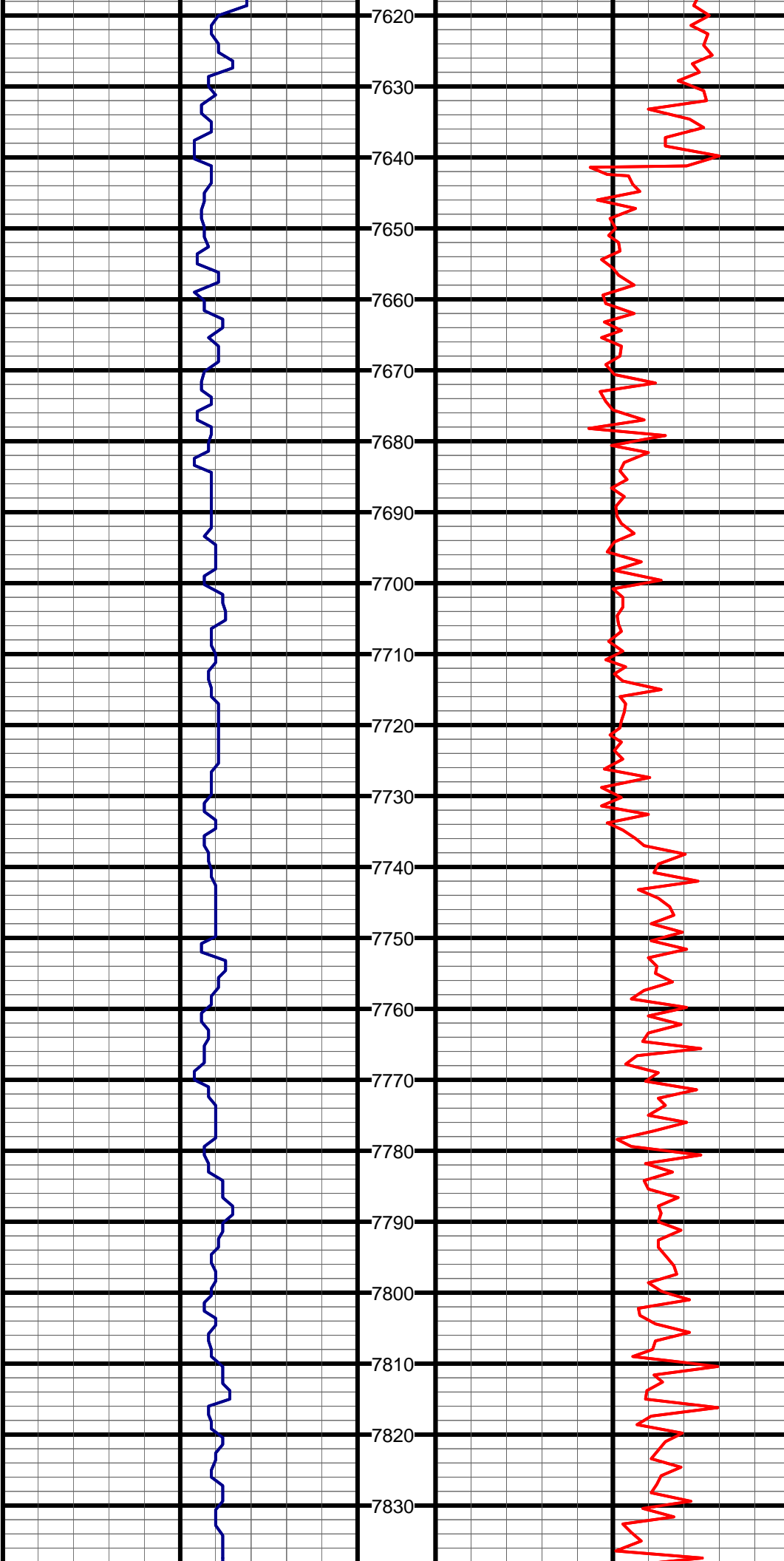
#62 MD:7310.0 TVD:5969.0 I:91.2 A:355.8 VS:1125.4



#63 MD:7405.0 TVD:5968.6 I:89.2 A:358.7 VS:1220.4

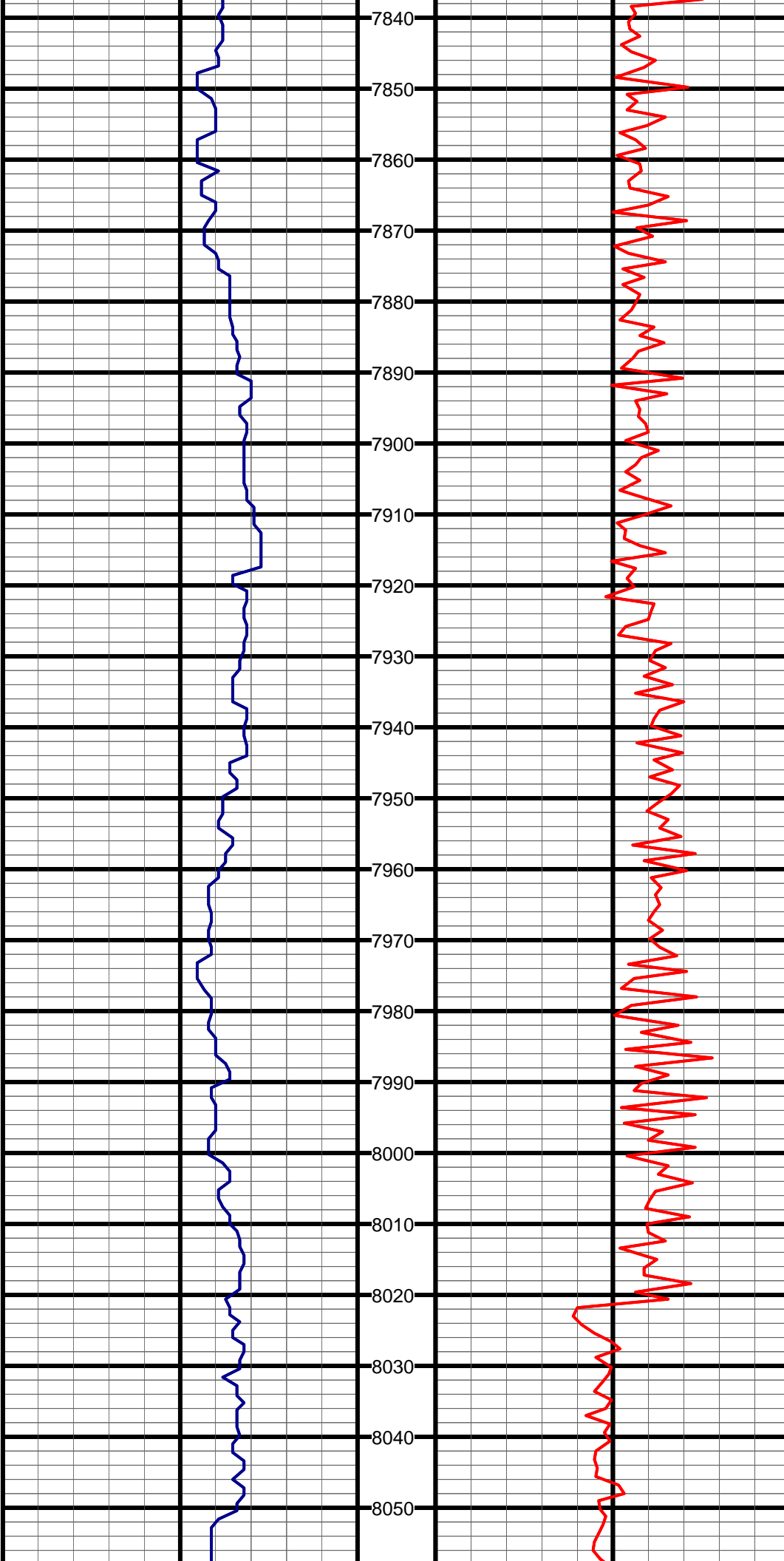
#64 MD:7500.0 TVD:5968.3 I:91.2 A:358.7 VS:1315.4

#65 MD:7595.0 TVD:5967.1 I:90.2 A:359.7 VS:1410.3



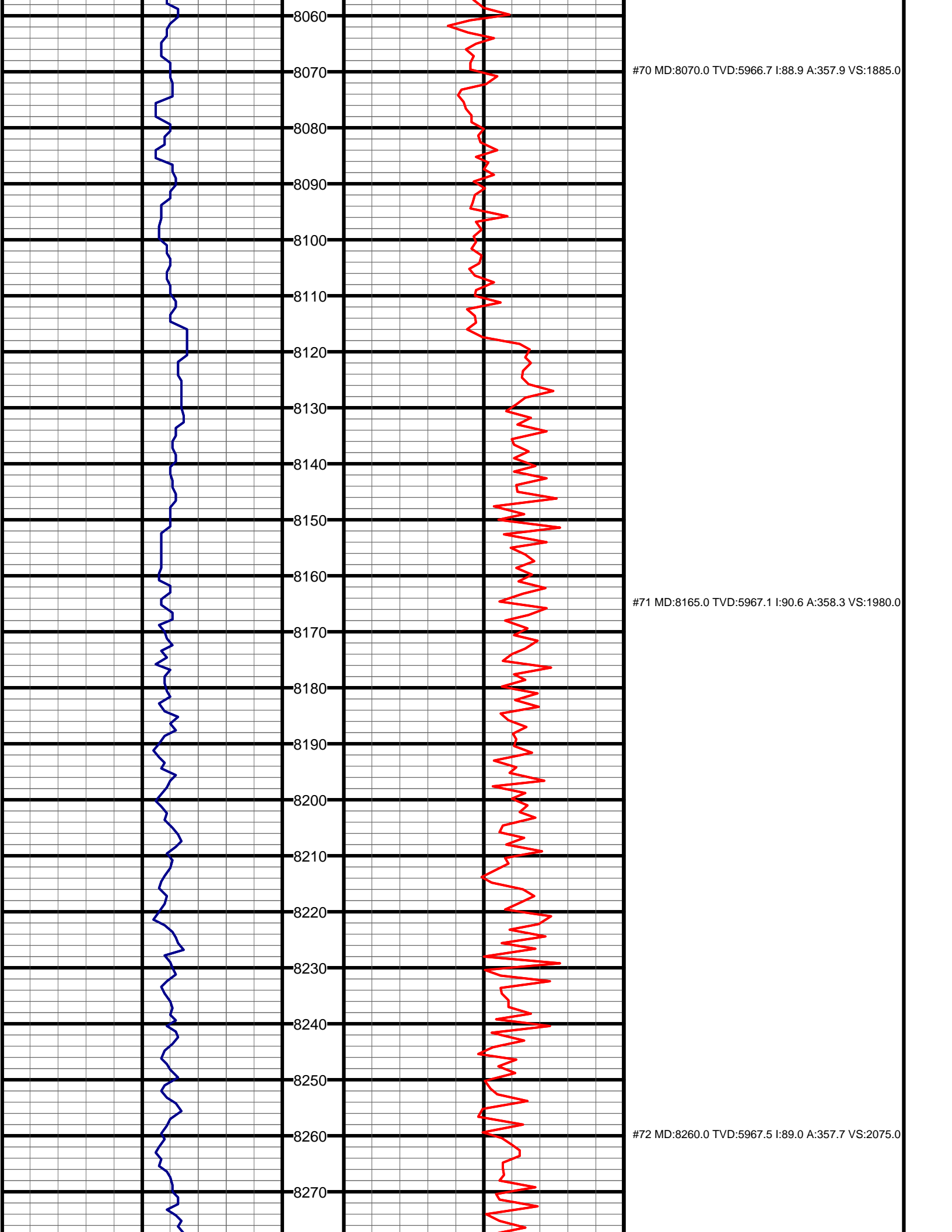
#66 MD:7690.0 TVD:5967.1 I:89.9 A:359.6 VS:1505.3

#67 MD:7785.0 TVD:5967.1 I:90.1 A:359.1 VS:1600.2

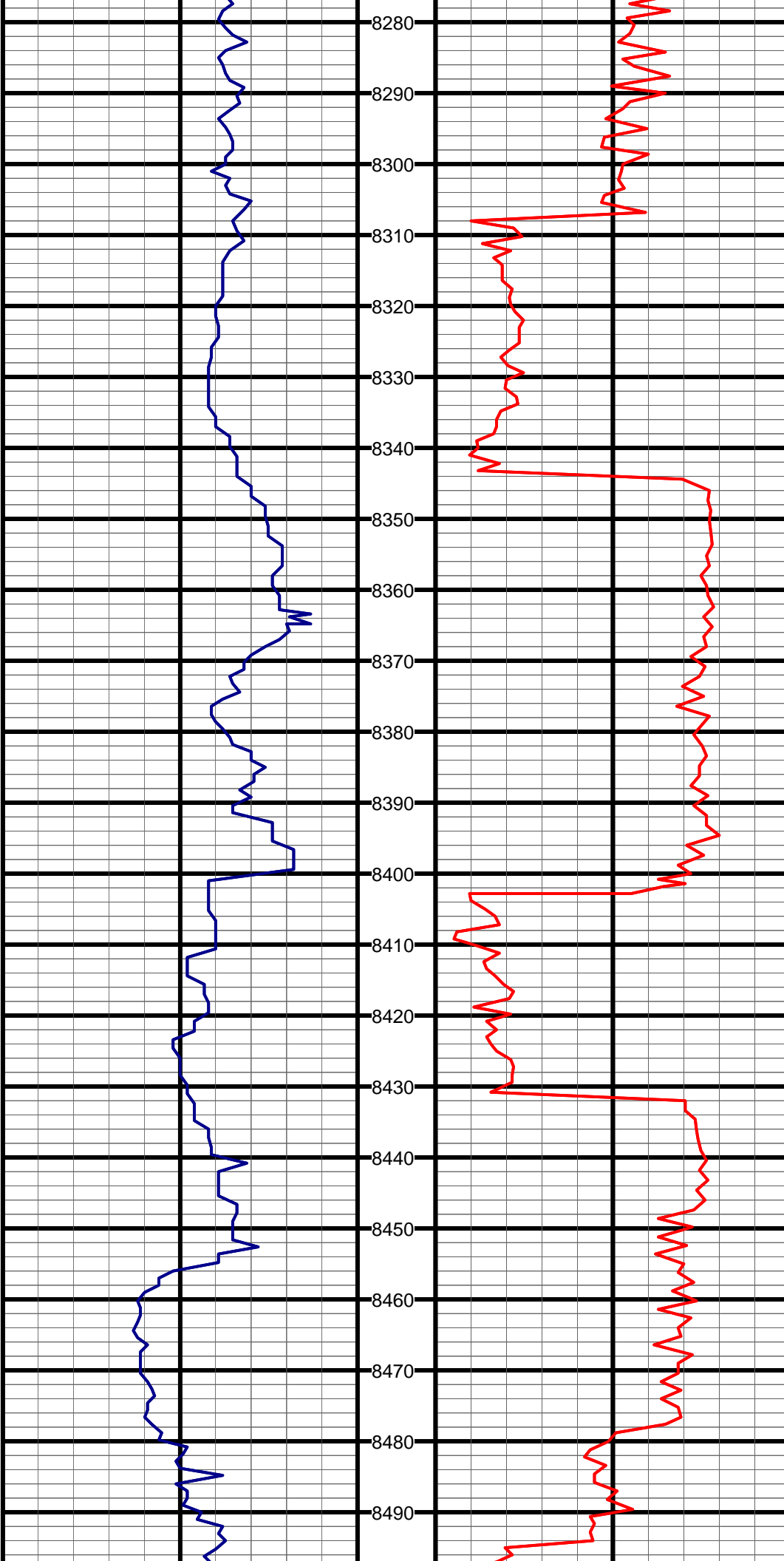


#68 MD:7880.0 TVD:5967.1 I:89.8 A:359.5 VS:1695.1

#69 MD:7975.0 TVD:5966.6 I:90.9 A:359.4 VS:1790.1

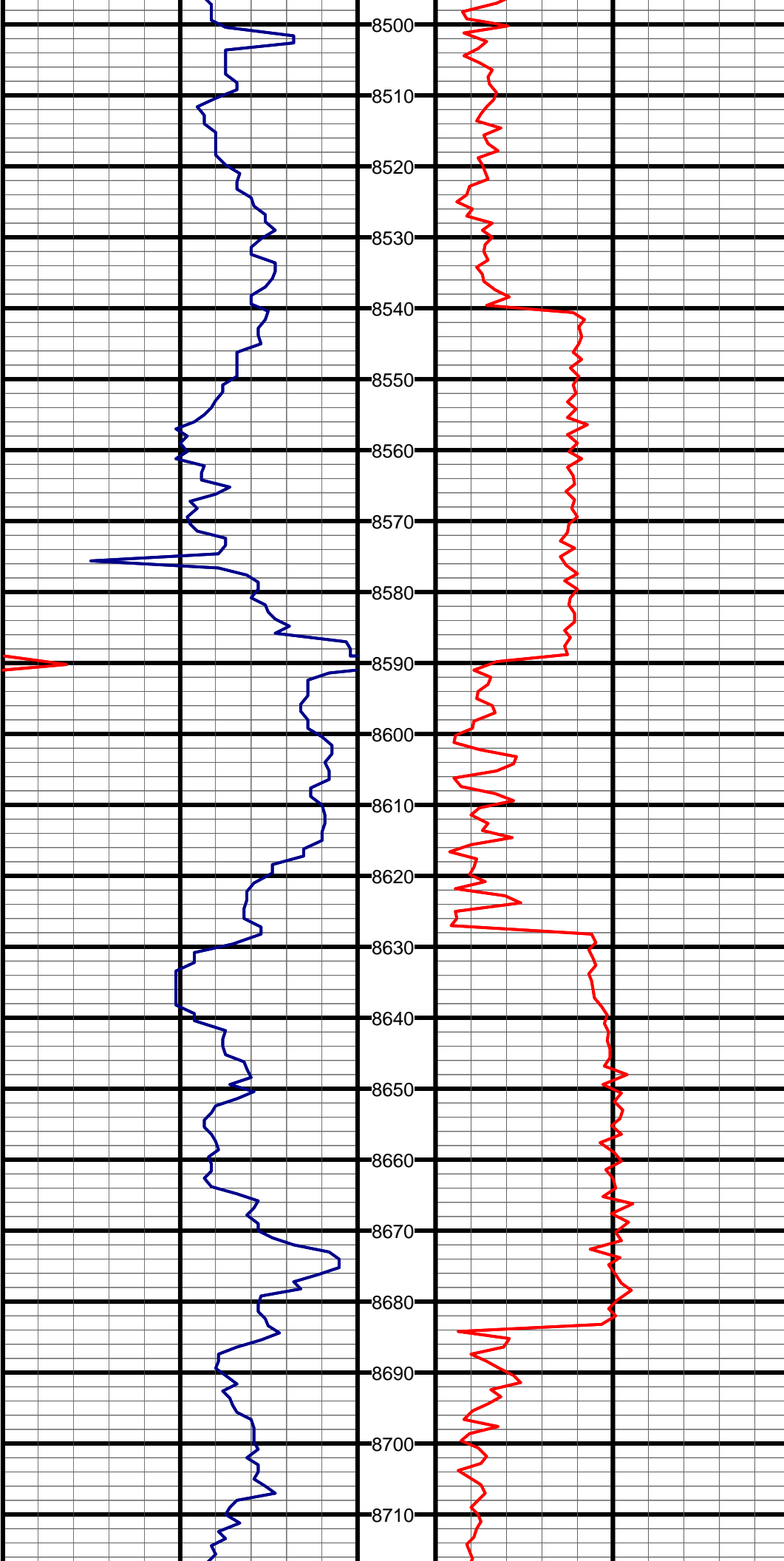






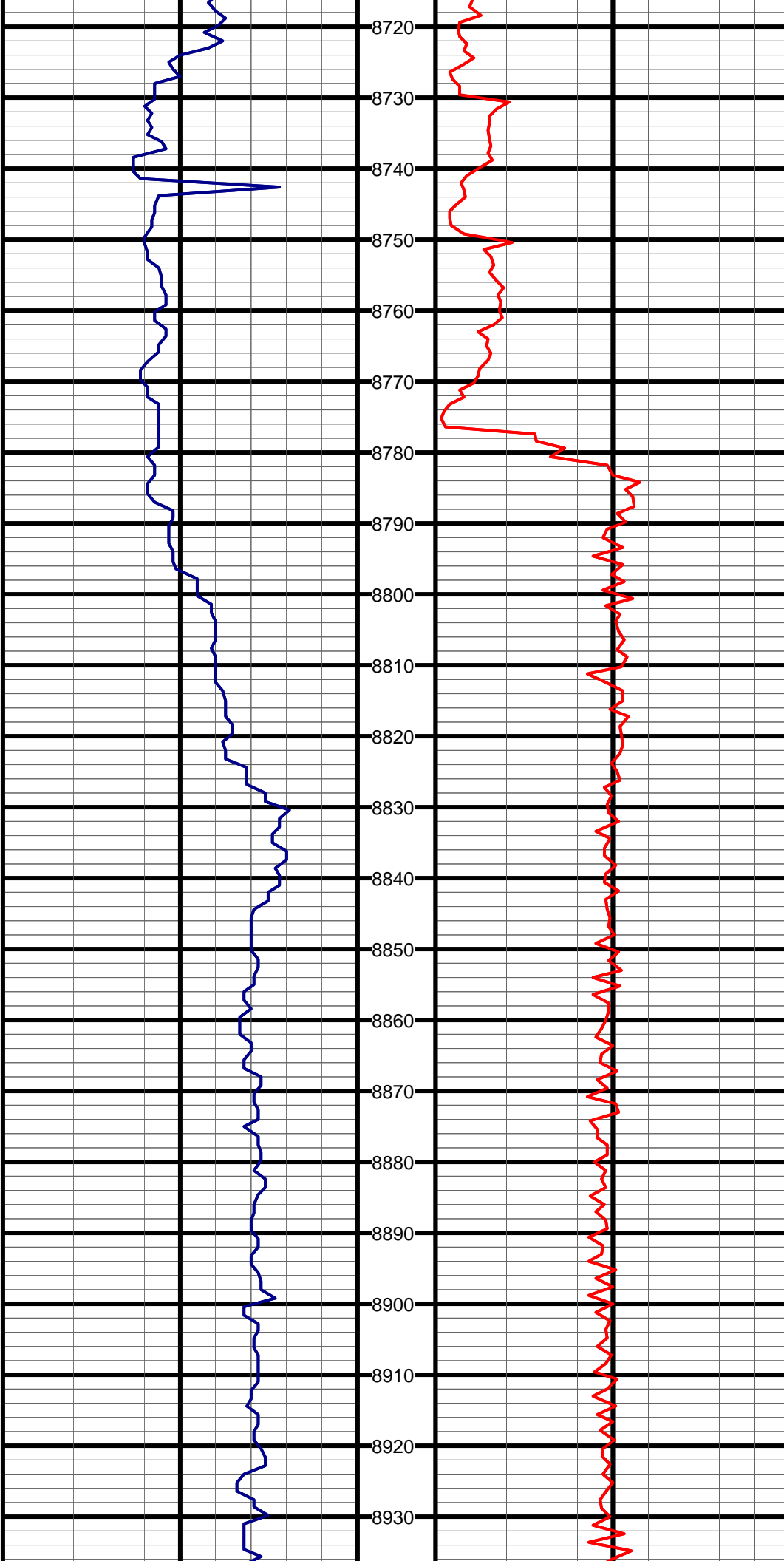
#73 MD:8354.0 TVD:5965.7 I:93.1 A:359.5 VS:2169.0

#74 MD:8450.0 TVD:5960.6 I:93.1 A:358.6 VS:2264.8



#75 MD:8544.0 TVD:5955.6 I:92.9 A:0.4 VS:2358.6

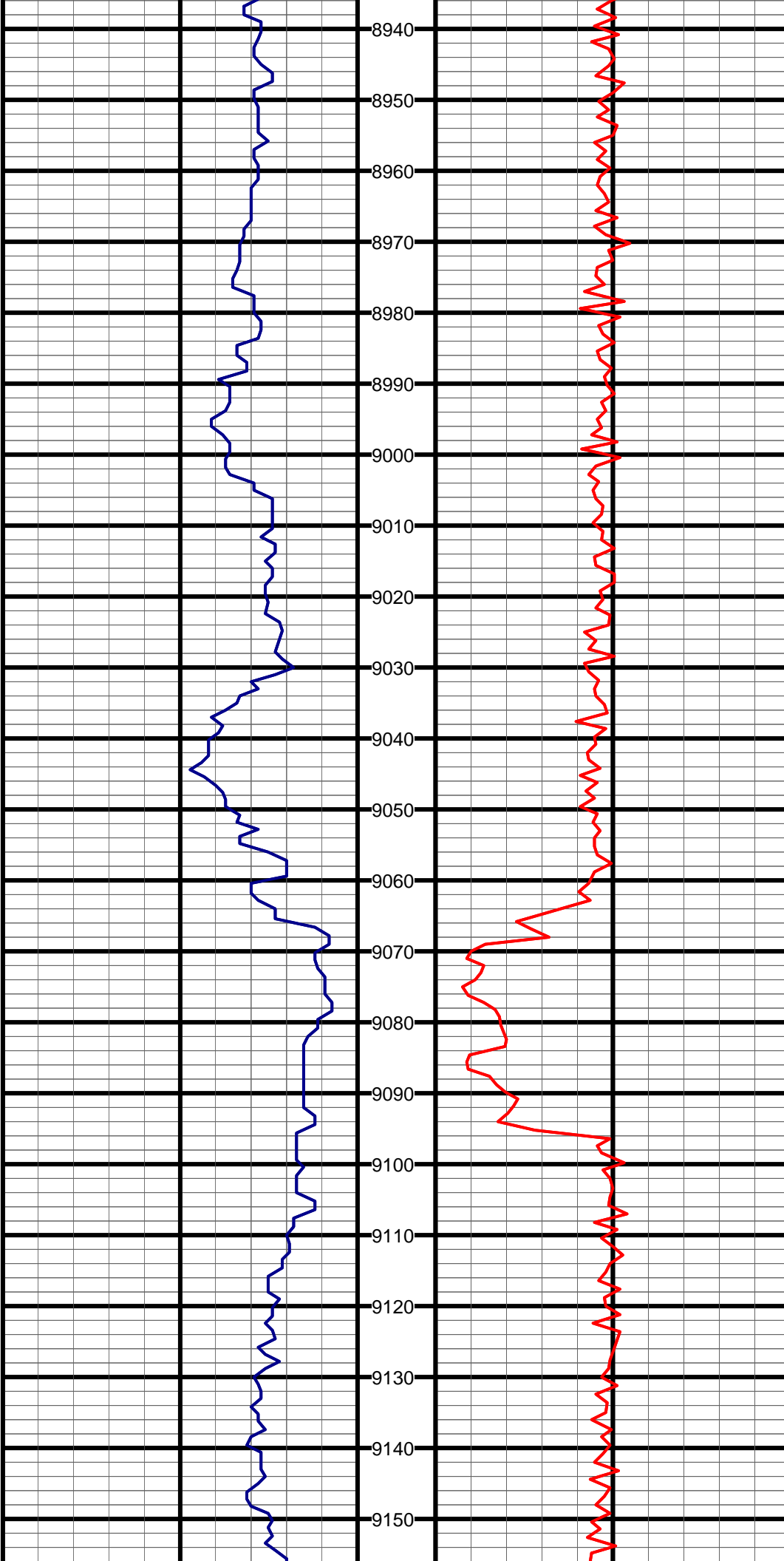
#76 MD:8639.0 TVD:5950.0 I:93.9 A:1.6 VS:2453.2



#77 MD:8734.0 TVD:5946.0 I:90.9 A:359.1 VS:2548.0

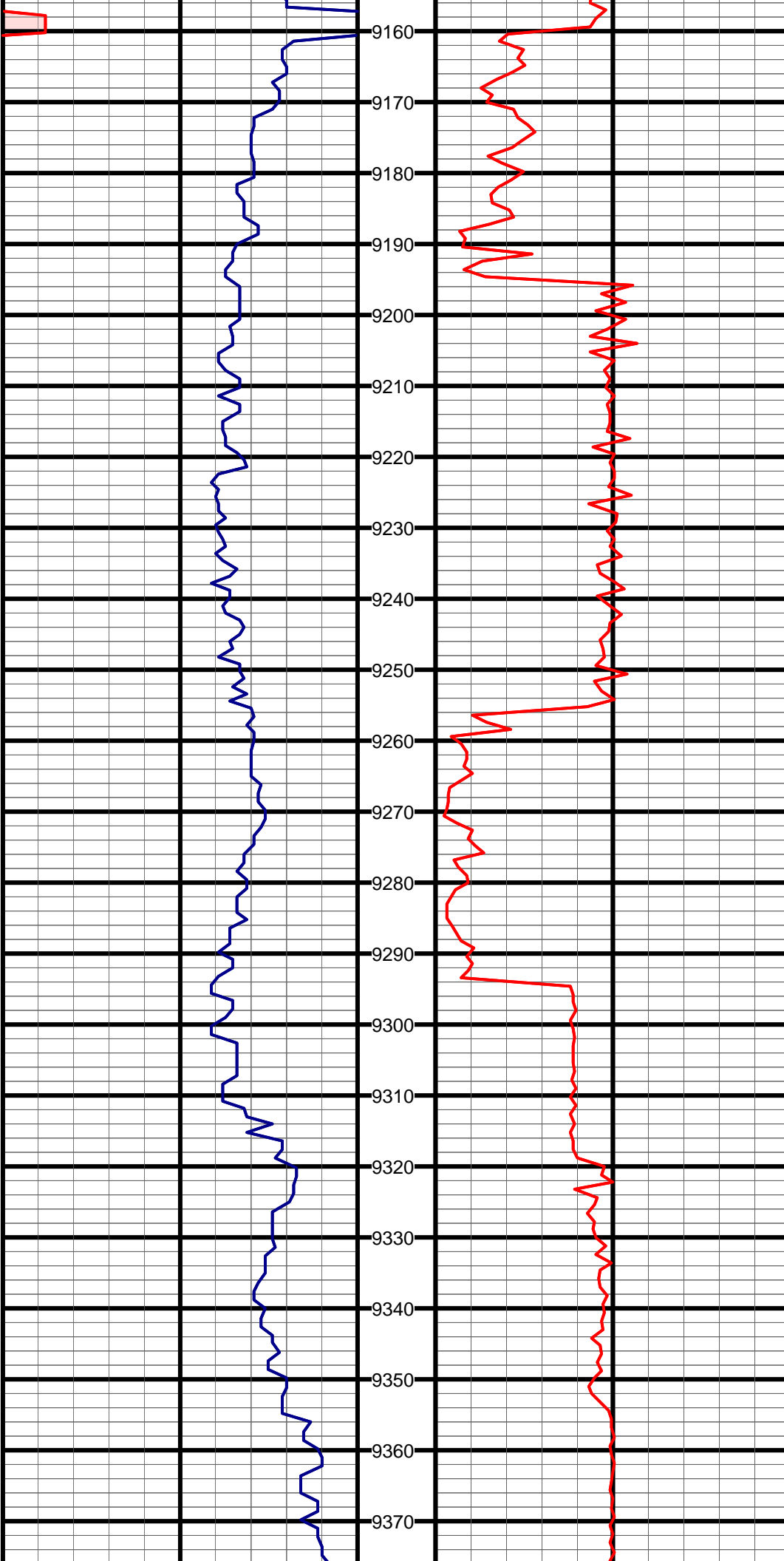
#78 MD:8829.0 TVD:5946.6 I:88.4 A:357.8 VS:2643.0

#79 MD:8924.0 TVD:5948.8 I:89.0 A:358.1 VS:2737.9



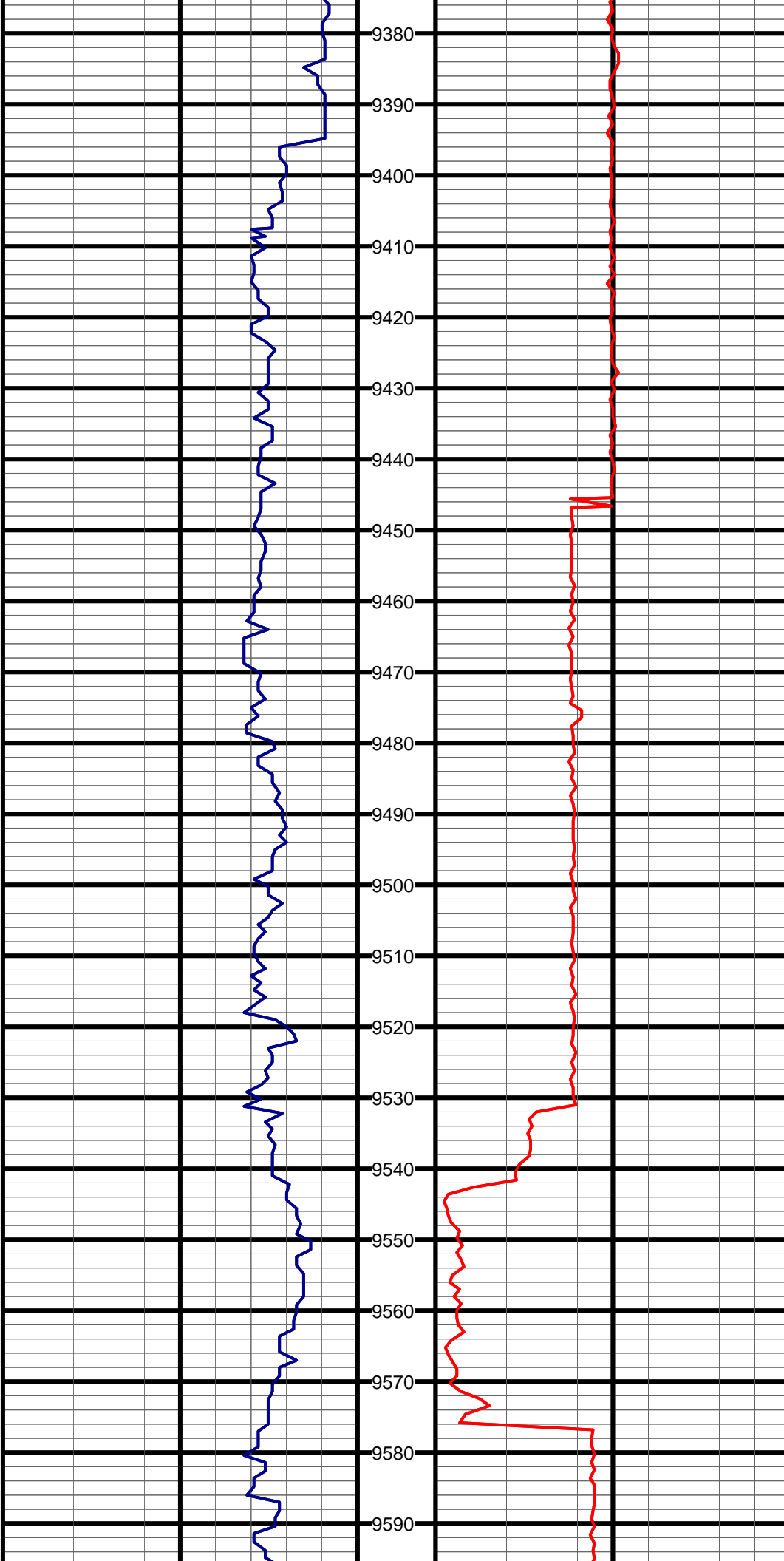
#80 MD:9019.0 TVD:5949.9 I:89.6 A:357.6 VS:2832.9

#81 MD:9114.0 TVD:5950.2 I:90.1 A:357.4 VS:2927.9



#82 MD:9209.0 TVD:5949.8 I:90.4 A:357.1 VS:3022.9

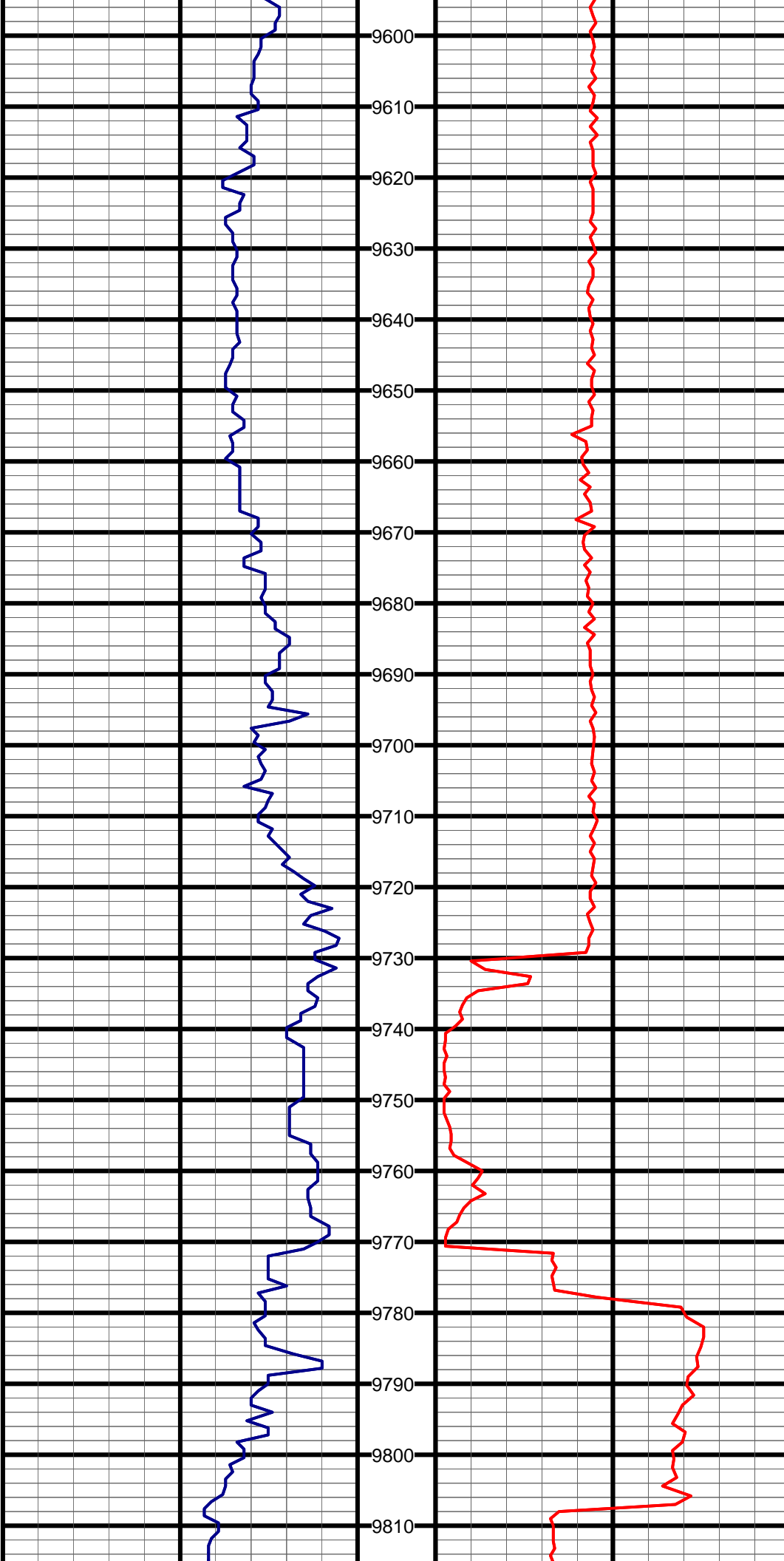
#83 MD:9304.0 TVD:5950.5 I:88.7 A:359.8 VS:3117.9



#84 MD:9399.0 TVD:5952.0 I:89.5 A:358.9 VS:3212.8

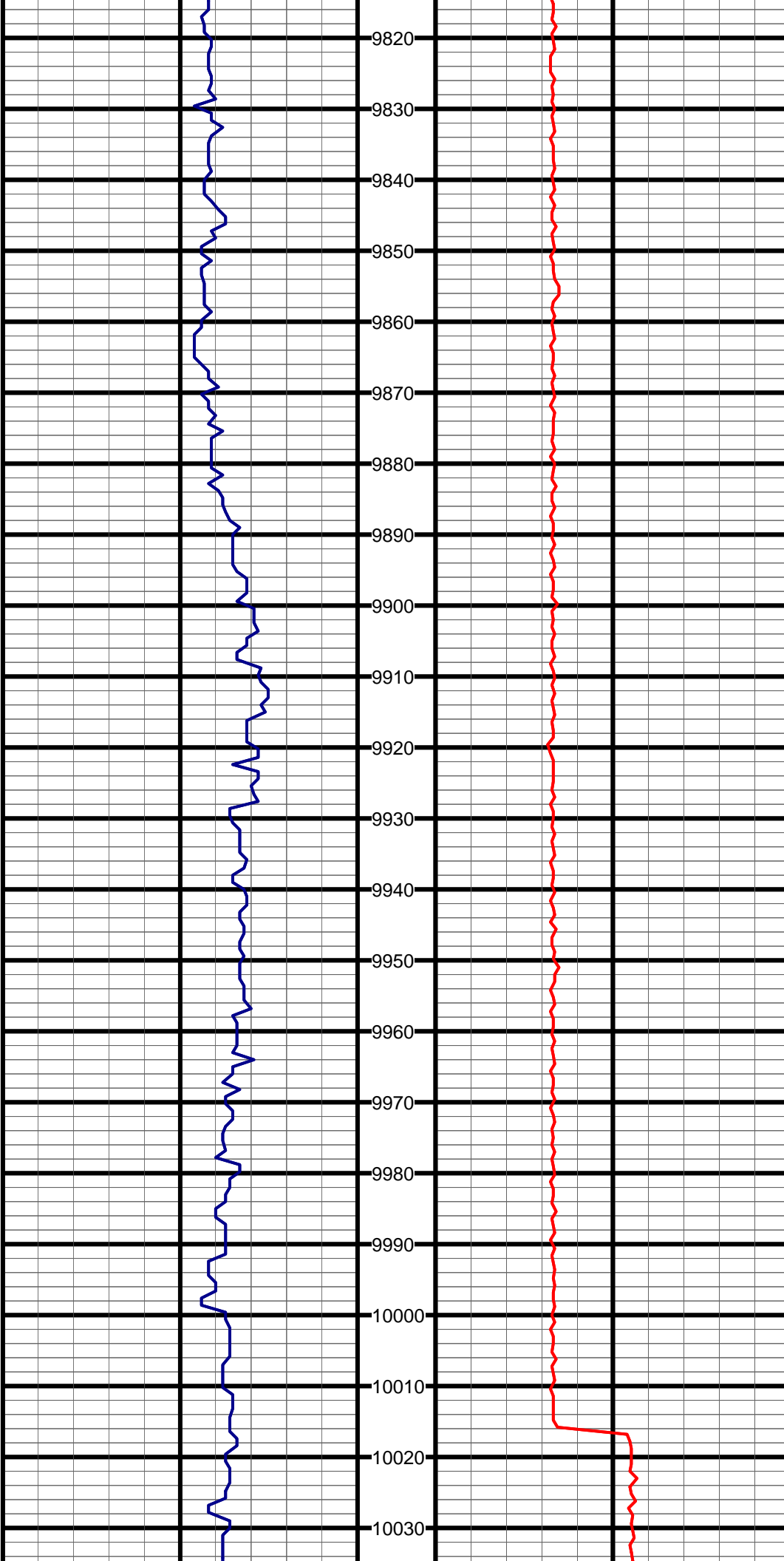
#85 MD:9494.0 TVD:5951.9 I:90.6 A:359.5 VS:3307.8

#86 MD:9589.0 TVD:5951.9 I:89.4 A:2.2 VS:3402.6



#87 MD:9684.0 TVD:5951.8 I:90.7 A:2.2 VS:3497.3

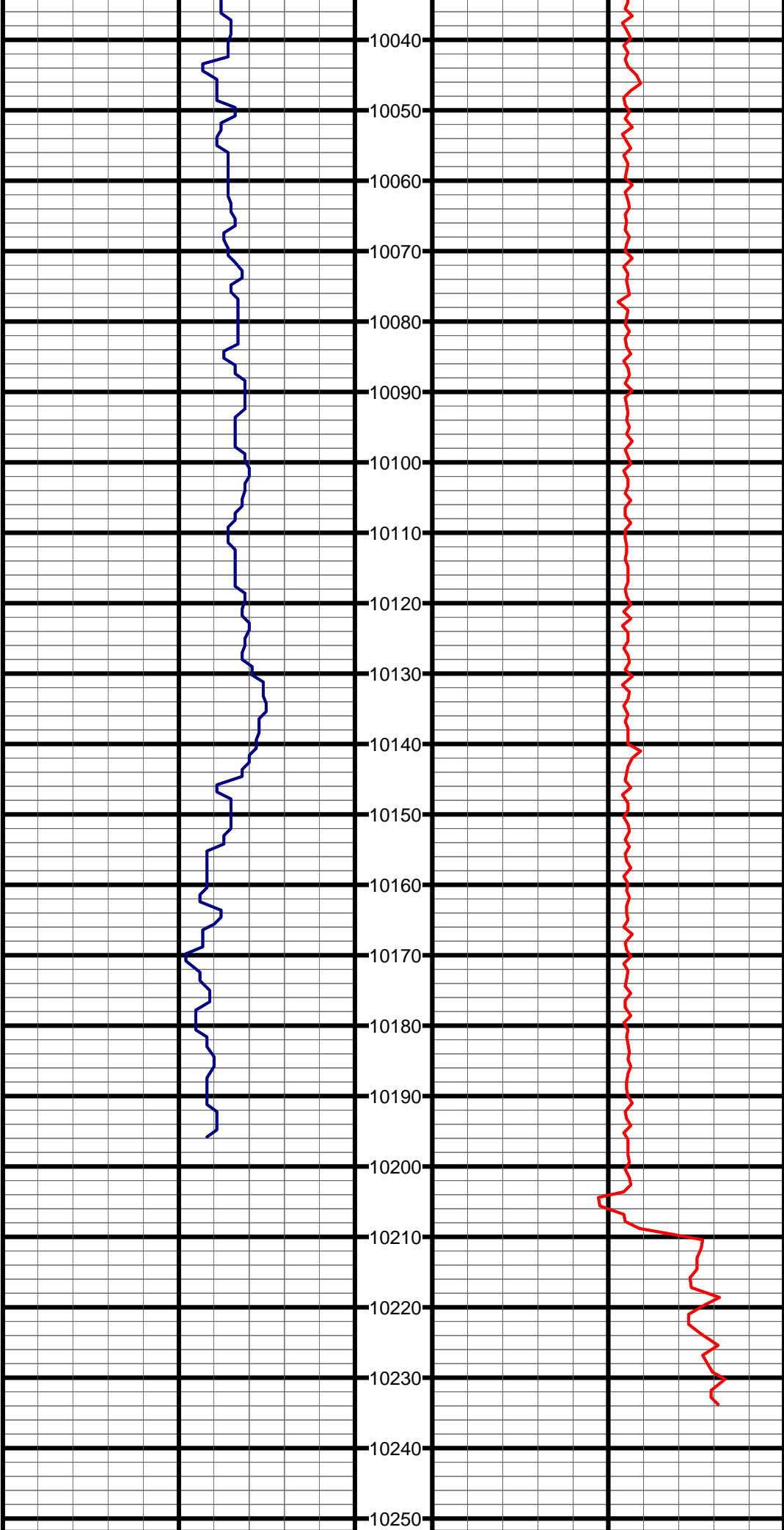
#88 MD:9779.0 TVD:5952.5 I:88.5 A:1.4 VS:3592.0



#89 MD:9874.0 TVD:5954.5 I:89.1 A:1.8 VS:3686.7

#90 MD:9969.0 TVD:5955.2 I:90.0 A:2.0 VS:3781.4





#91 MD:10064.0 TVD:5955.0 I:90.3 A:2.0 VS:3876.1

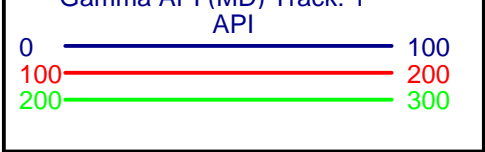
#92 MD:10159.0 TVD:5953.9 I:91.0 A:0.8 VS:3970.8

#93 MD:10190.0 TVD:5953.3 I:91.1 A:1.4 VS:4001.8

Gamma API (MD) Track: 1

Depth

ROP (MD) Track: 1







**(Scale: 2"=100' (100'))**

Company: Noble Energy Inc.

State: CO

Well: Castor LG 10-72 HN

County: Weld

Field: Wattenberg

Country: USA

Well ID: 05-123-33436

Job Number: RM-12757

Location: Sec 10 T8N R59W 6th P M

Elev KB: 4,796

Operator 1: W. Barham

Operator 2: R. Kubiśtek

Elev GL: 4,766'

Comment 1: Final 2" MD Gamma Log

Comment 2: Tie Into Surface Casing At 1,460'

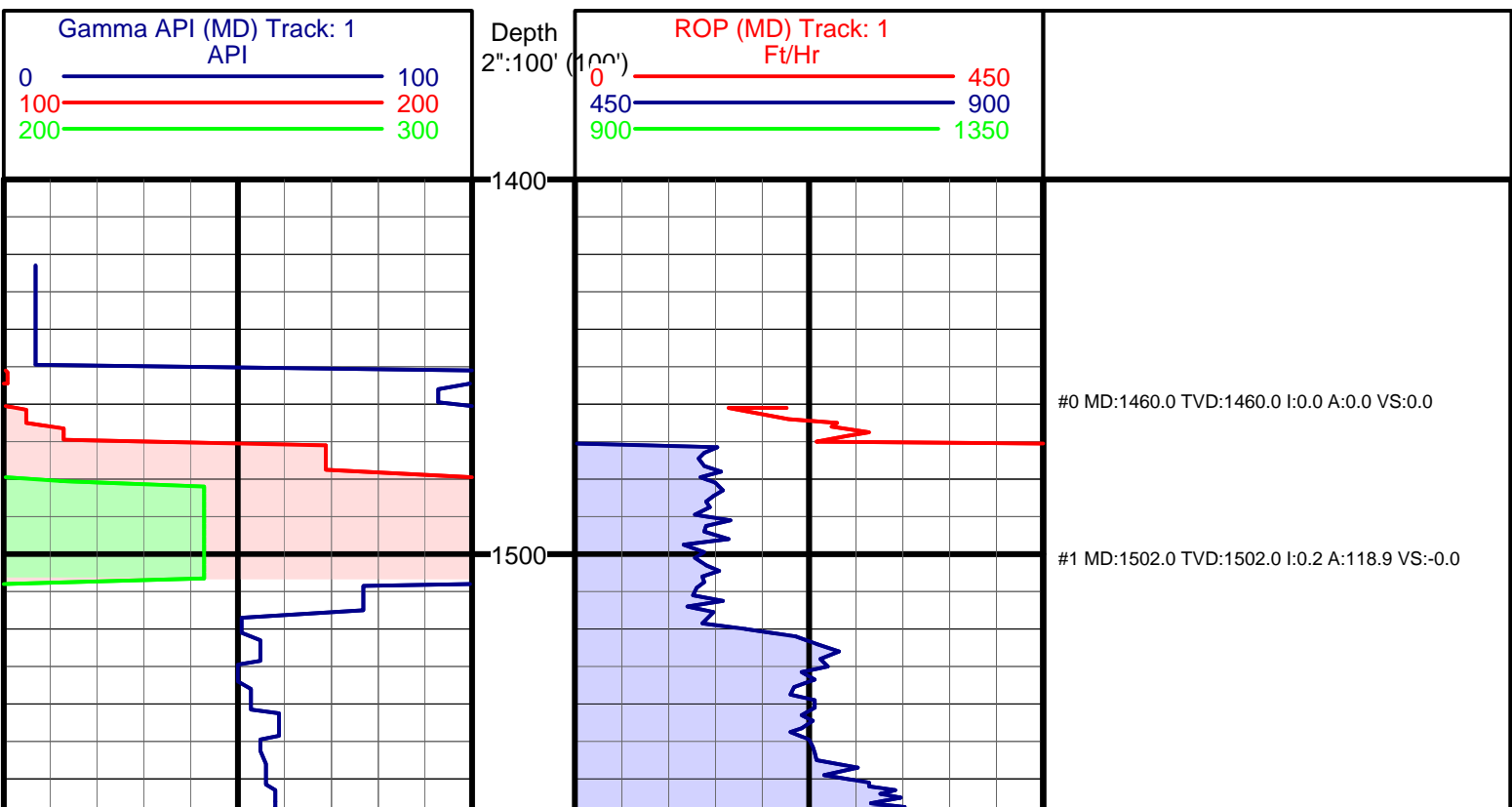
Comment 3:

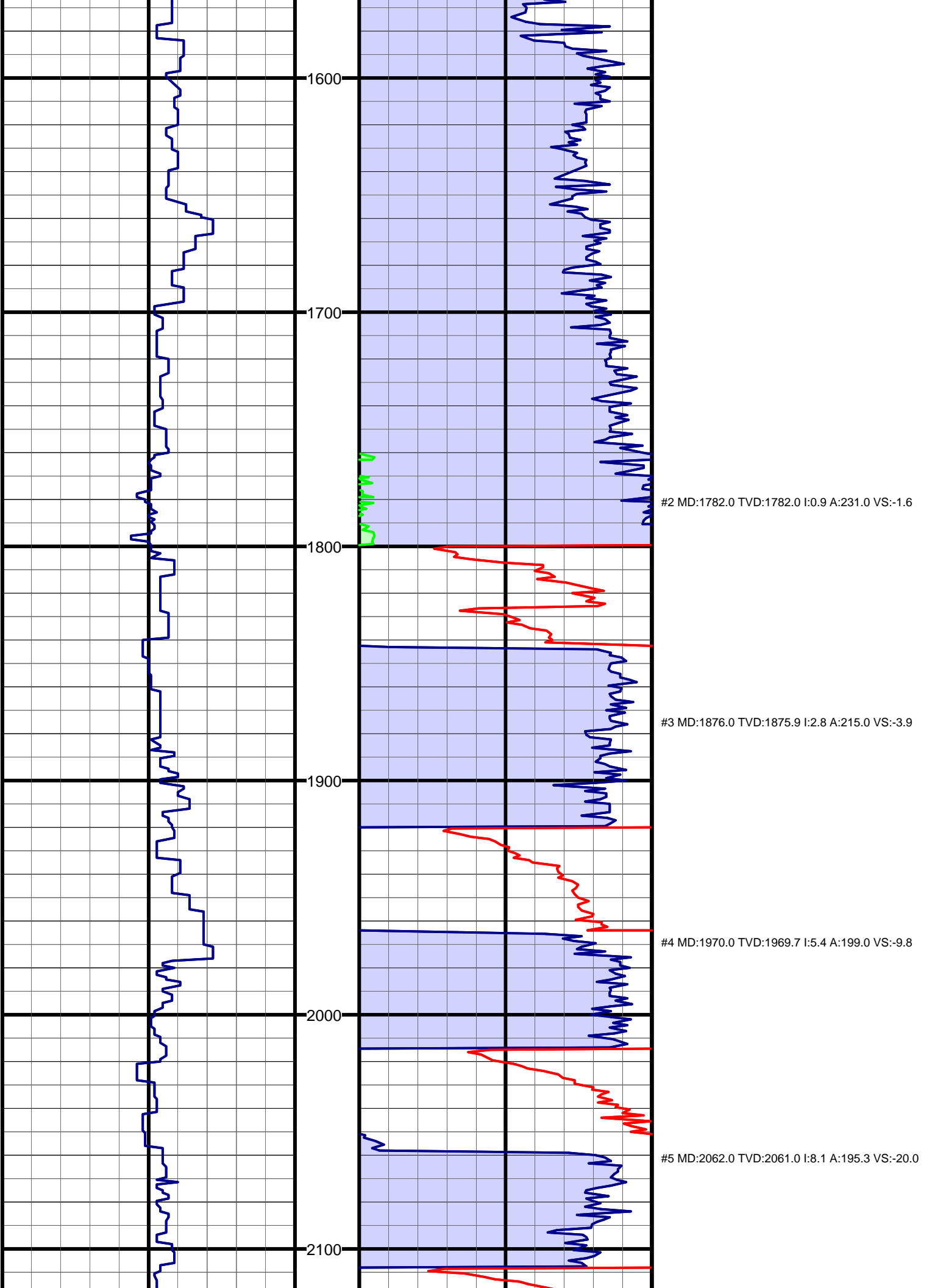
Comment 4:

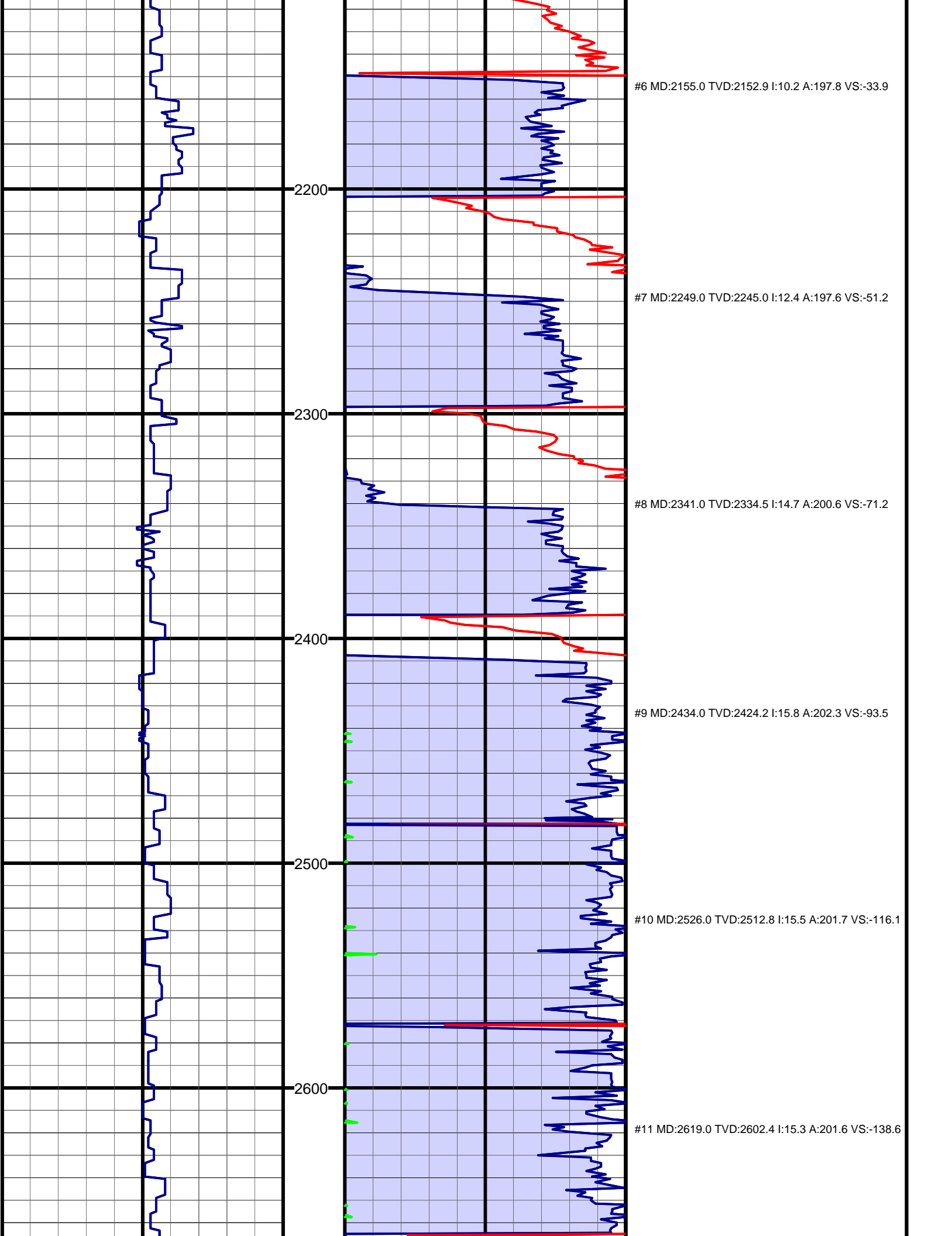
Comment 5:

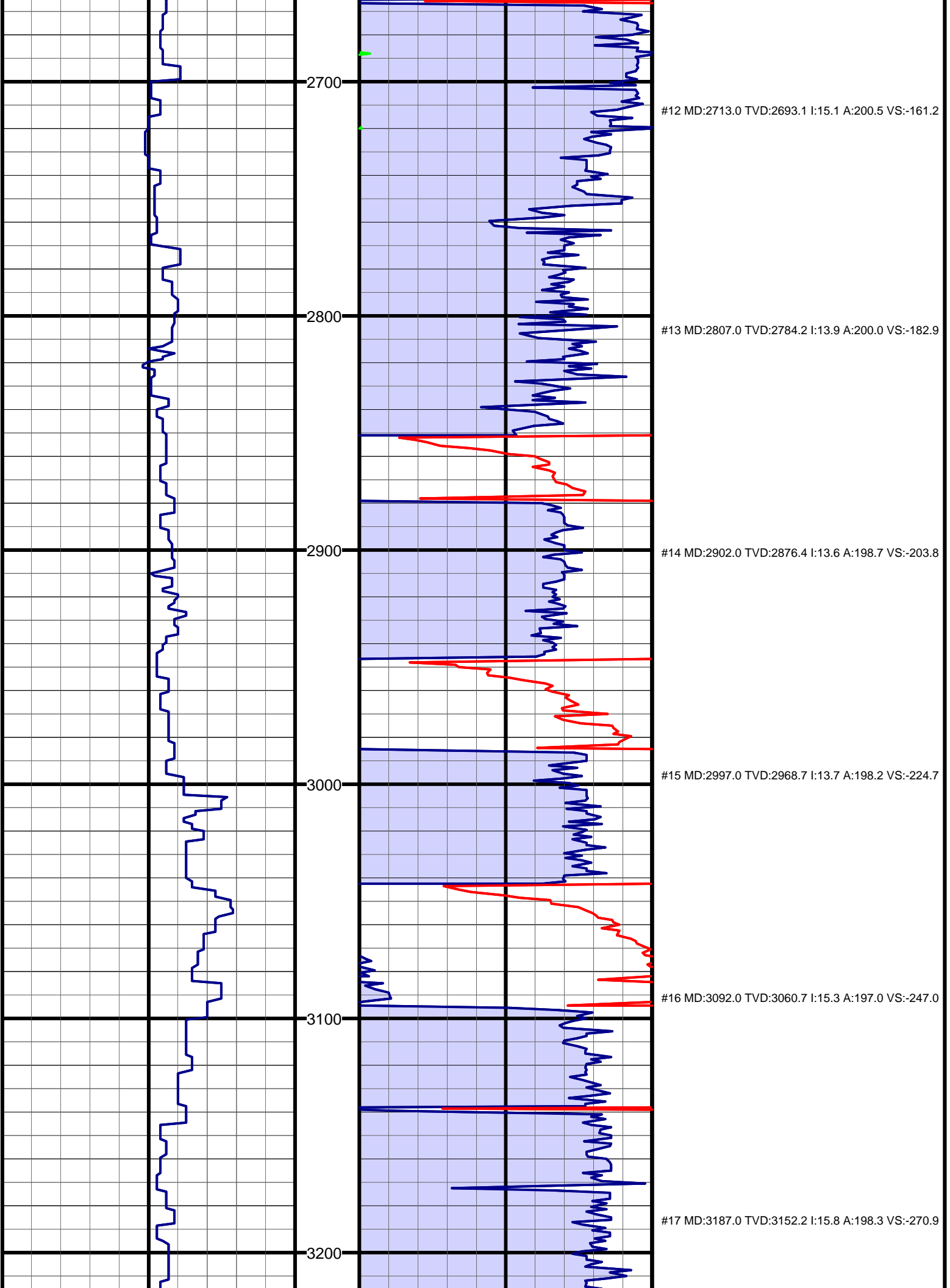
Hole Data				Casing Record			
Size	From	To	Size	From	To		
13.750"	0'	1,460'	9.625"	0'	1,460'		
8.750"	1,460'	6,536'	7.000"	1,460'	6,356'		
6.125"	6,536'	10,235'	4.500"	6,356'	10,235'		

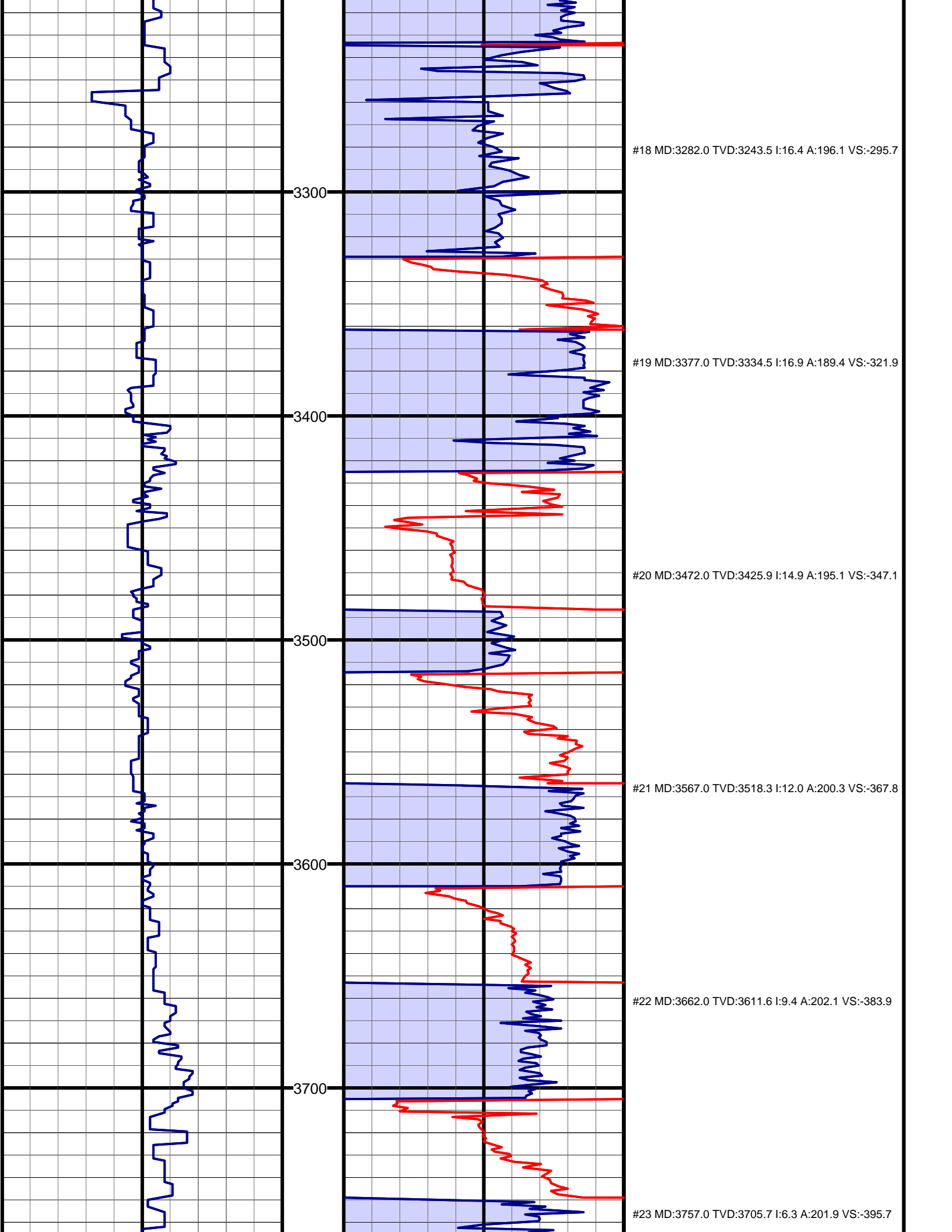
Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	0122	0122	0122		
Cal Factor	3.0	3.0	1.8		
Gamma Offset	38'	38'	38'		
Start Depth	1,460'	5,226'	6,366'		
Start Date	14 Oct 2012	15 Oct 2012	17 Oct 2012		
Start Time	10:00	10:20	12:10		
End Depth	5,226'	6,366'	10,235'		
End Date	15 Oct 2012	16 Oct 2012	20 Oct 2012		
End Time	08:50	12:45	02:00		



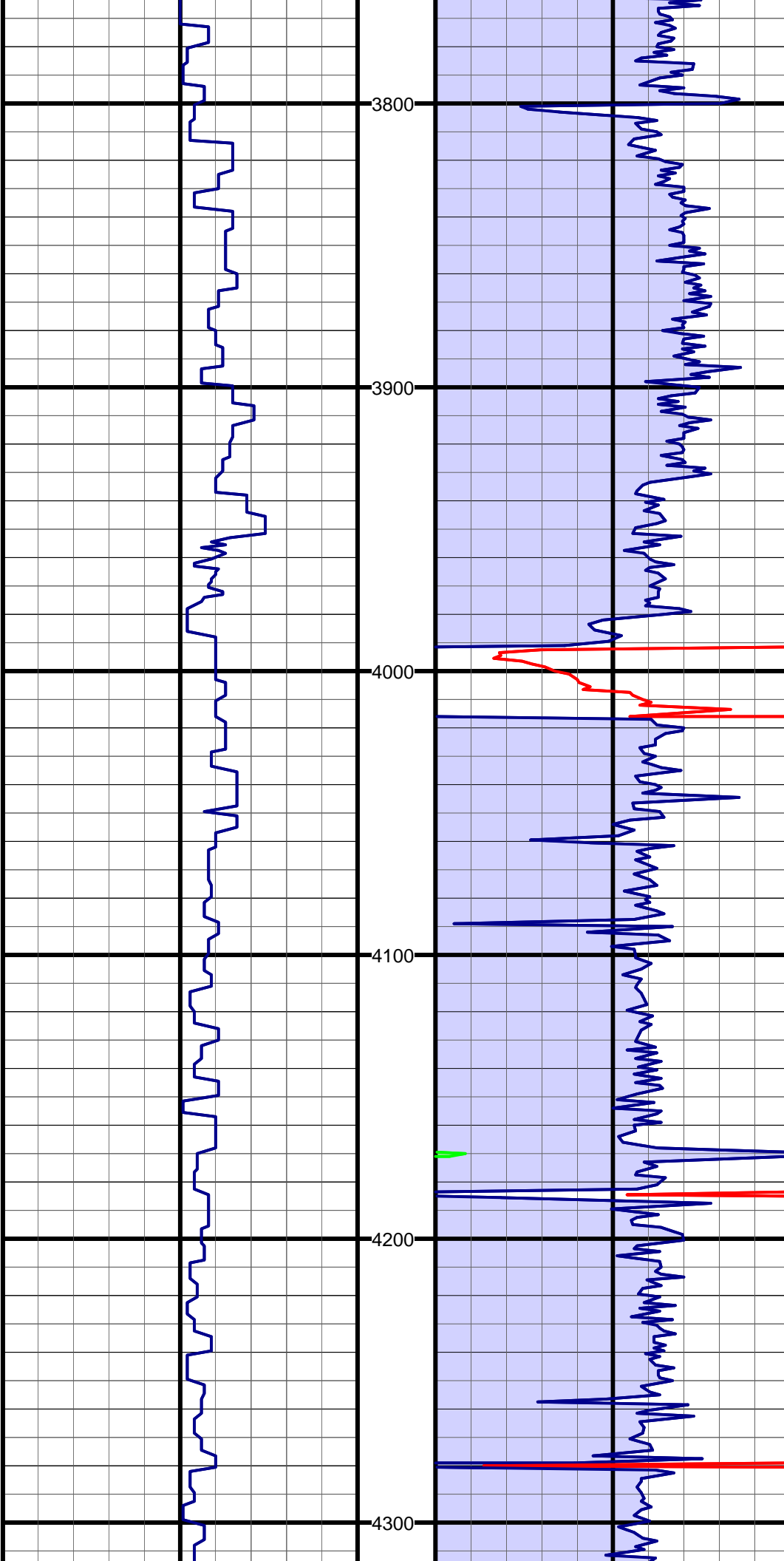












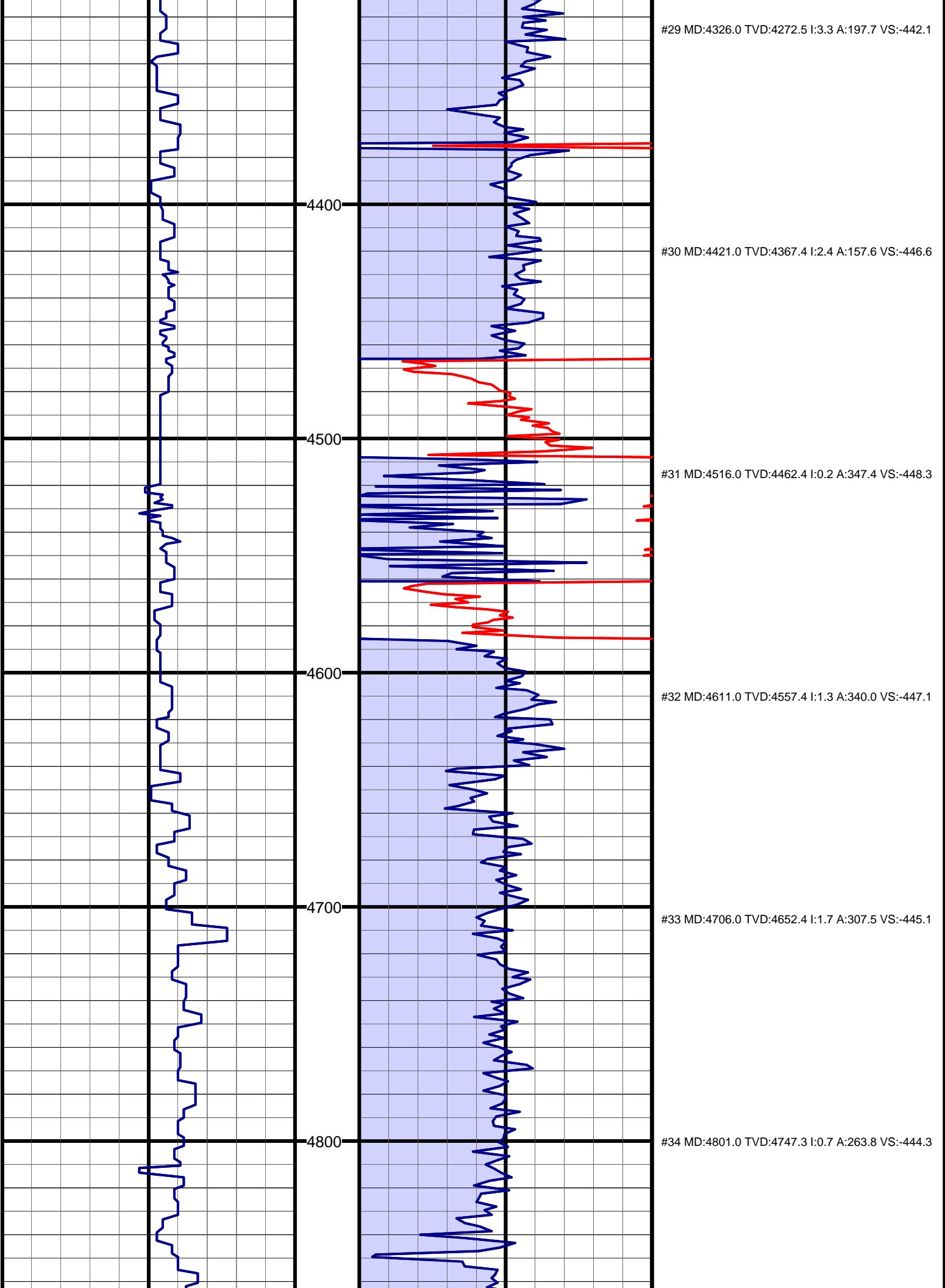
#24 MD:3852.0 TVD:3800.2 I:5.7 A:197.3 VS:-404.9

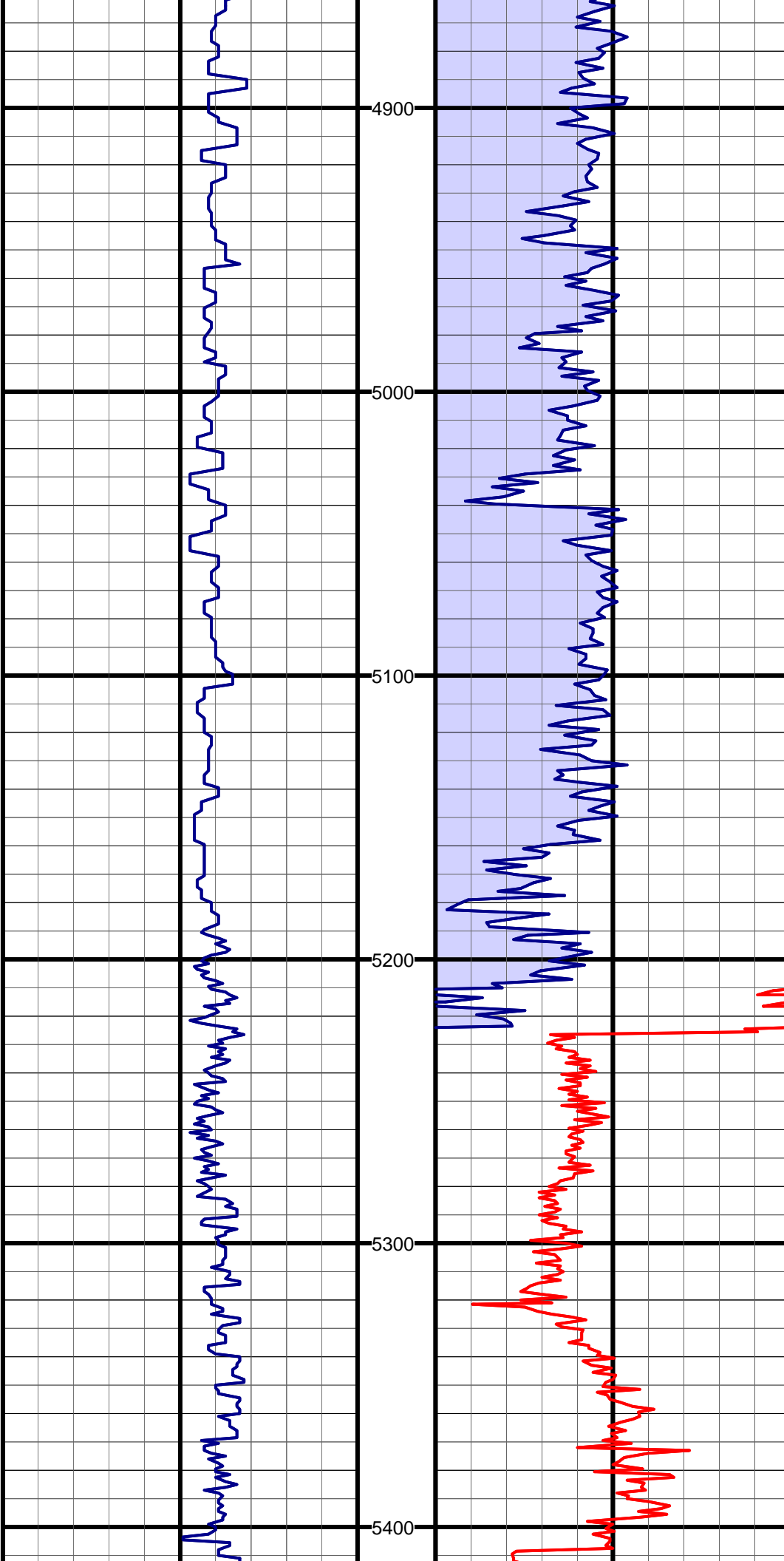
#25 MD:3947.0 TVD:3894.8 I:5.2 A:188.1 VS:-413.6

#26 MD:4042.0 TVD:3989.4 I:5.5 A:198.1 VS:-422.1

#27 MD:4136.0 TVD:4083.0 I:4.7 A:199.1 VS:-429.9

#28 MD:4231.0 TVD:4177.7 I:4.0 A:200.7 VS:-436.5





#35 MD:4896.0 TVD:4842.3 I:0.4 A:237.7 VS:-444.5

#36 MD:4991.0 TVD:4937.3 I:0.4 A:146.9 VS:-444.9

#37 MD:5086.0 TVD:5032.3 I:0.2 A:105.9 VS:-445.3

#38 MD:5181.0 TVD:5127.3 I:0.1 A:96.2 VS:-445.3

#39 MD:5276.0 TVD:5222.3 I:0.1 A:50.0 VS:-445.3

#40 MD:5371.0 TVD:5317.0 I:8.4 A:351.2 VS:-438.3

