

MS Energy Services



DDMT-140588

5":100' - MD

7/24/2014 7:28:04 AM

Oper. Company: Whiting Petroleum

Country: USA

State / Province: CO

County / Parish: Weld County

Started: 07/16/2014 07:30 PM

API/UWI:

Field: BJ Bason

Well: Horsetail 33m-2804

Rig: Pioneer 54

Ended: 06/24/2014 08:00 AM

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.

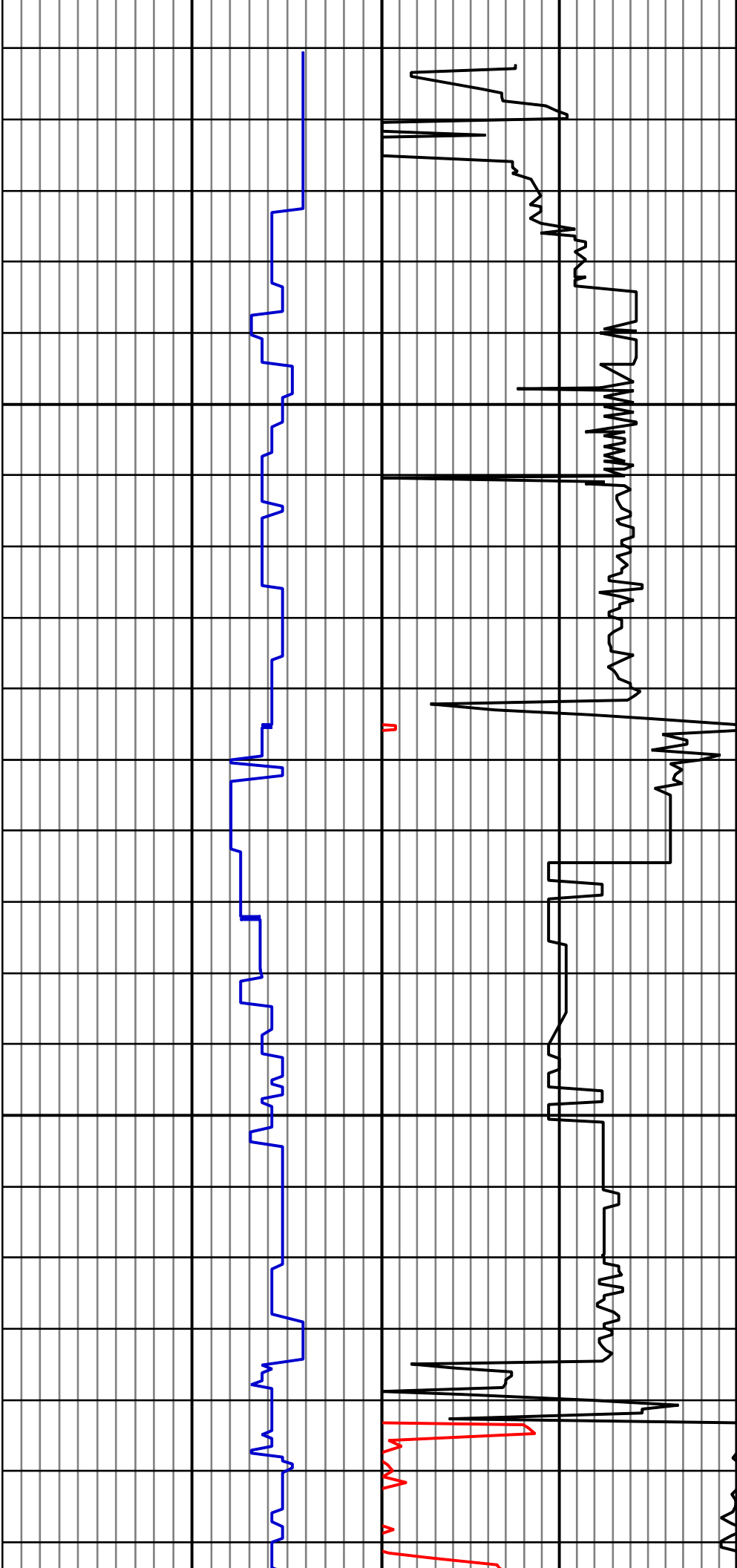
0.00 GR(API) 150.00 0.00 ROP(FT/HR) 300.00 Surveys (MD/INC/AZ/TVD/VS)  
150.00 2 300.00 300.00 2 600.00

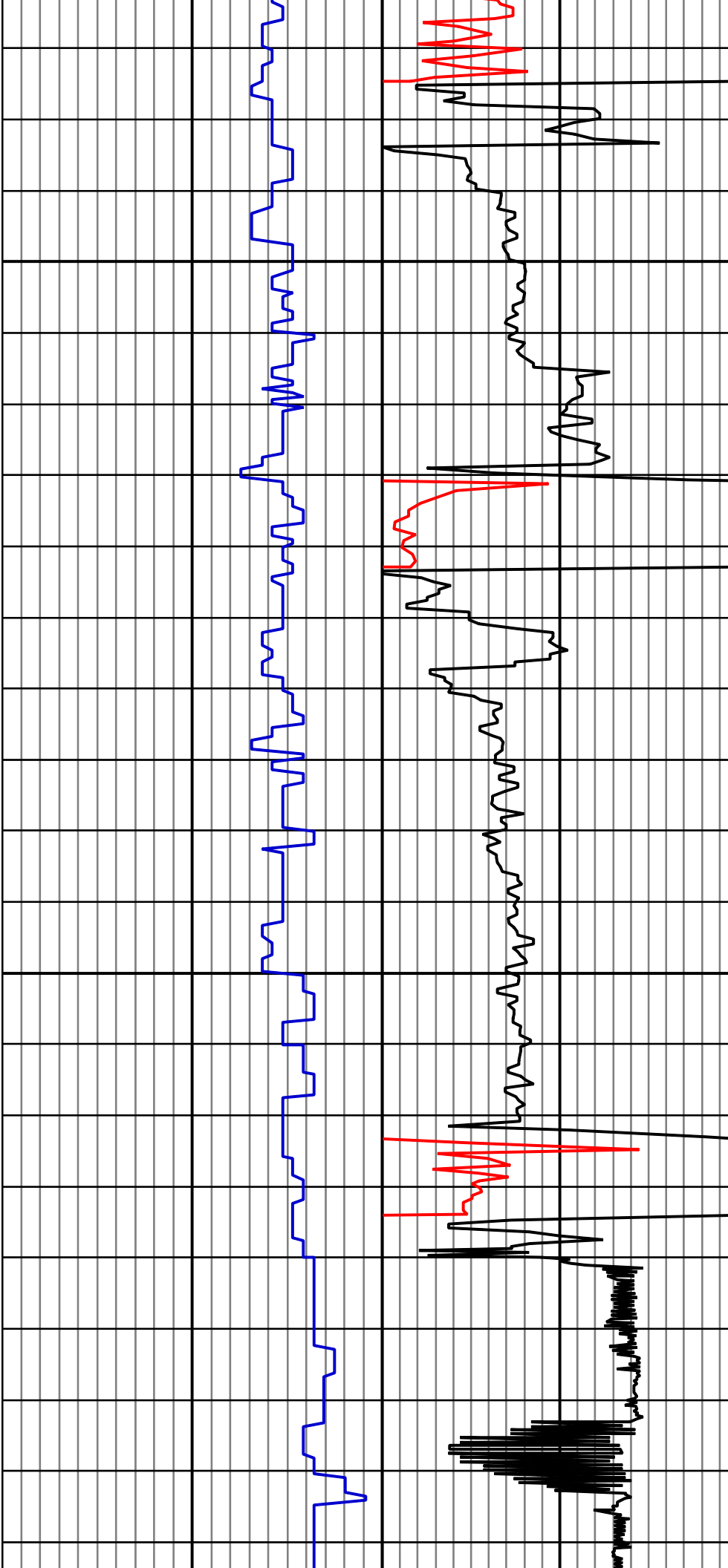
MD: 4708.00 INC: 1.20 AZ: 70.20 TVD: 4702.60 VS: 9.39 4,708.00

MD: 4802.00 INC: 1.20 AZ: 66.10 TVD: 4796.58 VS: 10.15 4,802.00

MD: 4896.00 INC: 8.70 AZ: 12.90 TVD: 4890.19 VS: 17.53 4,896.00

MD: 4990.00 INC: 16.80 AZ: 18.00 TVD: 4981.79 VS: 37.514 4,990.00

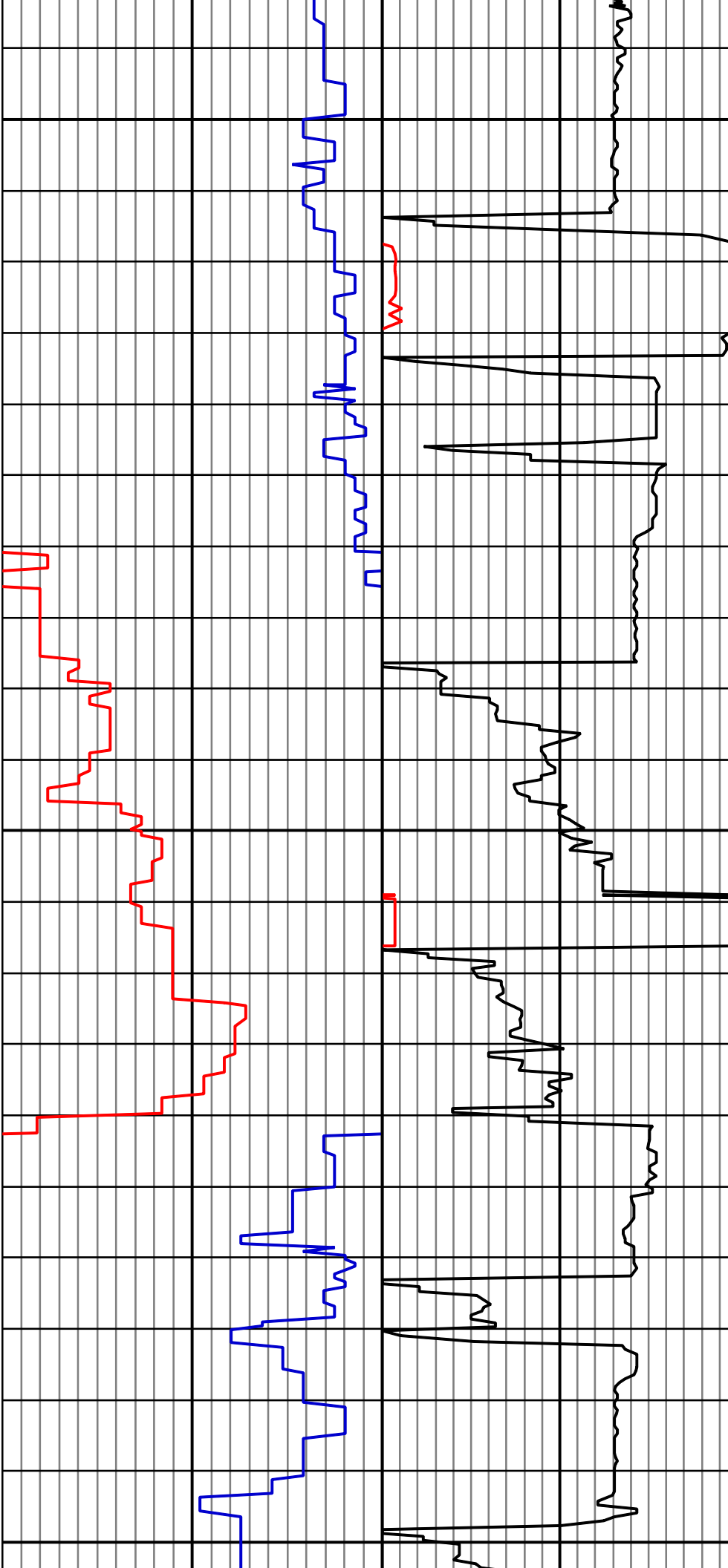




MD: 5082.00 INC: 23.10 AZ: 11.80 TVD: 5068.24 VS: 67.95,082.00

MD: 5175.00 INC: 31.80 AZ: 1.80 TVD: 5150.73 VS: 110.515,175.00

MD: 5269.00 INC: 47.00 AZ: 358.60 TVD: 5223.16 VS: 169.5269.00



MD: 5300.00 INC: 53.50 AZ: 1.60 TVD: 5242.96 VS: 193.806,300.00

MD: 5331.00 INC: 54.80 AZ: 2.20 TVD: 5261.11 VS: 218.935,331.00

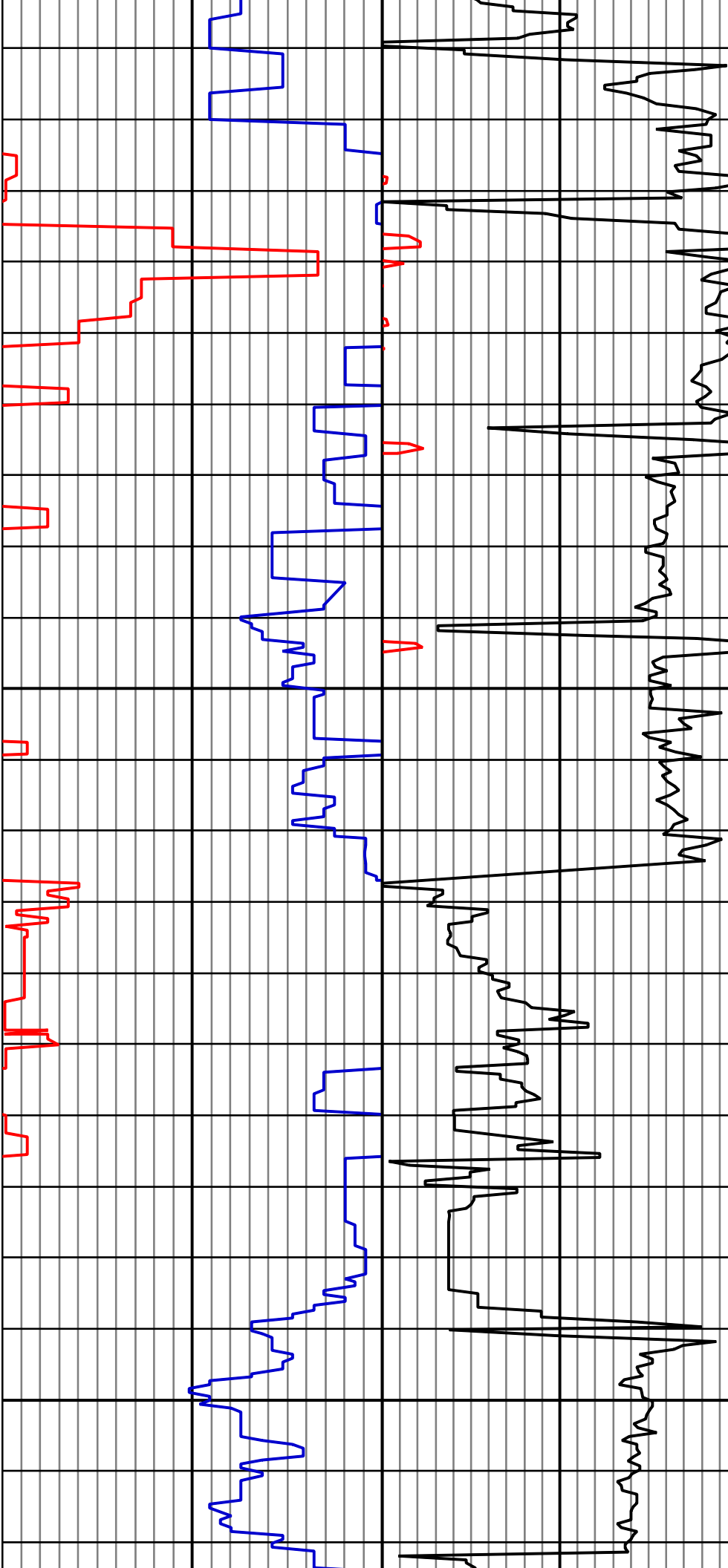
MD: 5362.00 INC: 54.60 AZ: 1.80 TVD: 5279.03 VS: 244.225,362.00

MD: 5393.00 INC: 57.80 AZ: 358.10 TVD: 5296.27 VS: 269.52893.00

MD: 5424.00 INC: 61.80 AZ: 355.80 TVD: 5311.87 VS: 296.5324.00

MD: 5455.00 INC: 64.10 AZ: 354.70 TVD: 5325.96 VS: 324.5355.00

MD: 5486.00 INC: 65.50 AZ: 354.50 TVD: 5339.16 VS: 352.5386.00



MD: 5517.00 INC: 67.30 AZ: 355.60 TVD: 5351.57 VS: 3805517.00

MD: 5549.00 INC: 67.60 AZ: 355.70 TVD: 5363.84 VS: 4095549.00

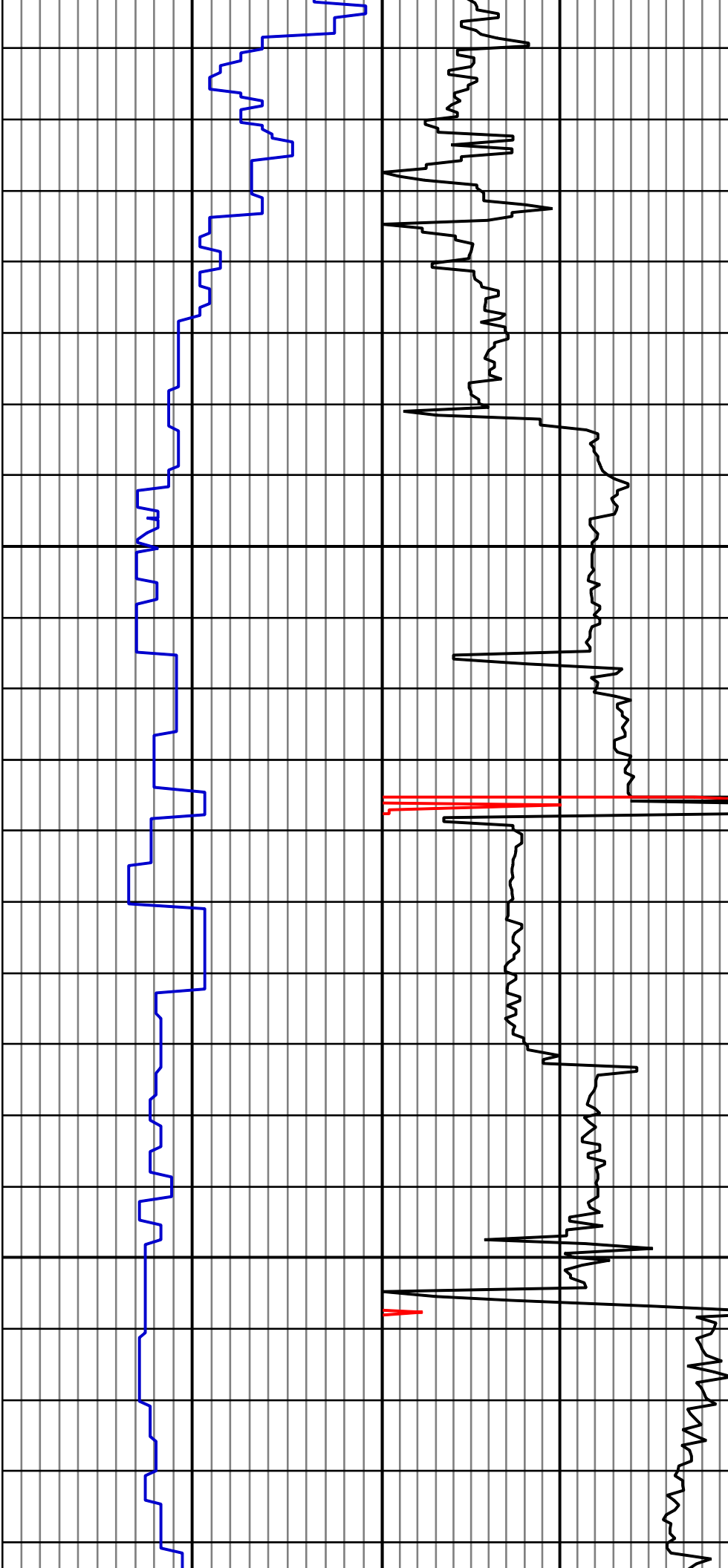
MD: 5580.00 INC: 67.40 AZ: 355.40 TVD: 5375.71 VS: 4385580.00

MD: 5611.00 INC: 67.30 AZ: 355.00 TVD: 5387.65 VS: 4665611.00

MD: 5642.00 INC: 71.50 AZ: 355.80 TVD: 5398.55 VS: 4955642.00

MD: 5673.00 INC: 75.10 AZ: 358.30 TVD: 5407.46 VS: 5255673.00

MD: 5704.00 INC: 76.40 AZ: 357.90 TVD: 5415.09 VS: 5555704.00

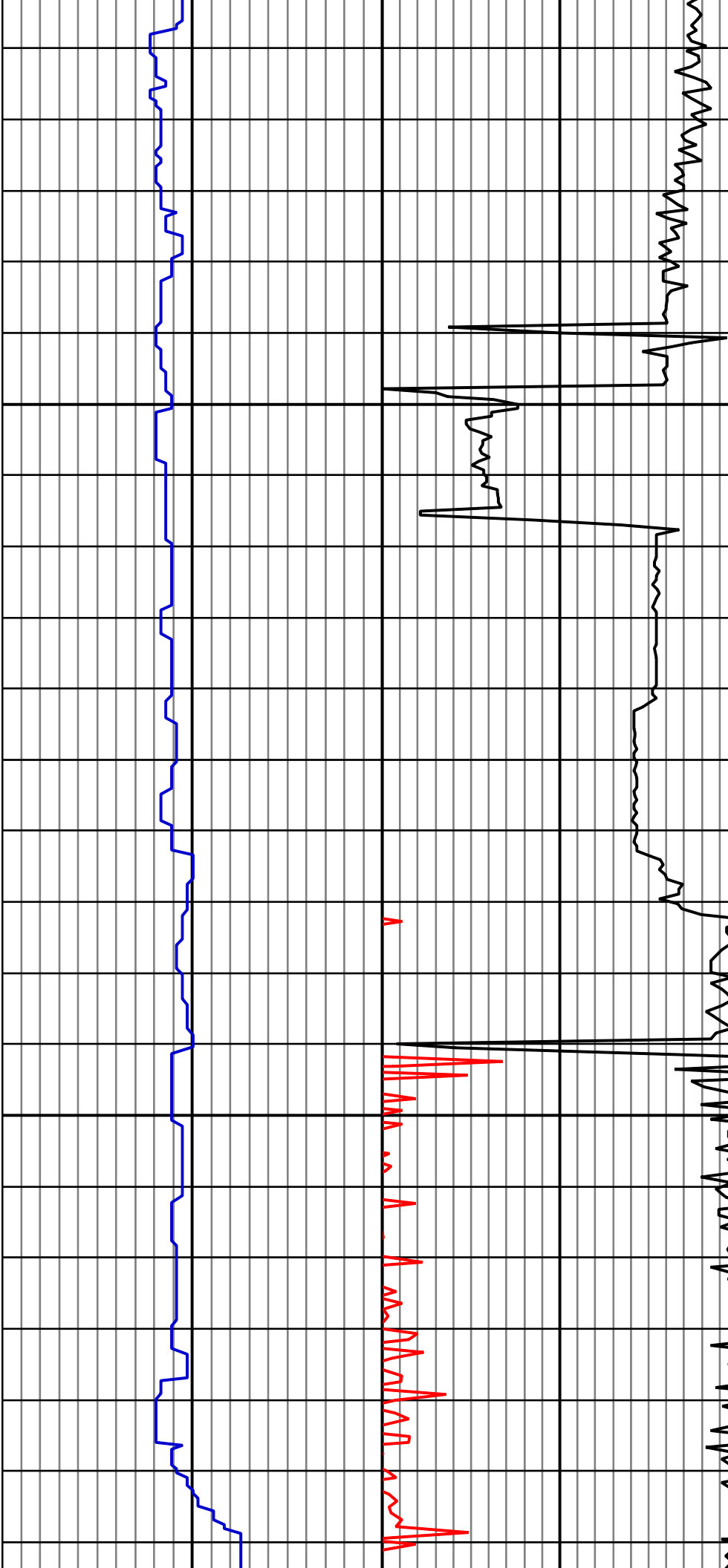


MD: 5735.00 INC: 80.30 AZ: 358.80 TVD: 5421.35 VS: 5855735.00

MD: 5766.00 INC: 86.30 AZ: 359.80 TVD: 5424.96 VS: 6162766.00

MD: 5788.00 INC: 88.20 AZ: 0.10 TVD: 5426.02 VS: 638.245788.00

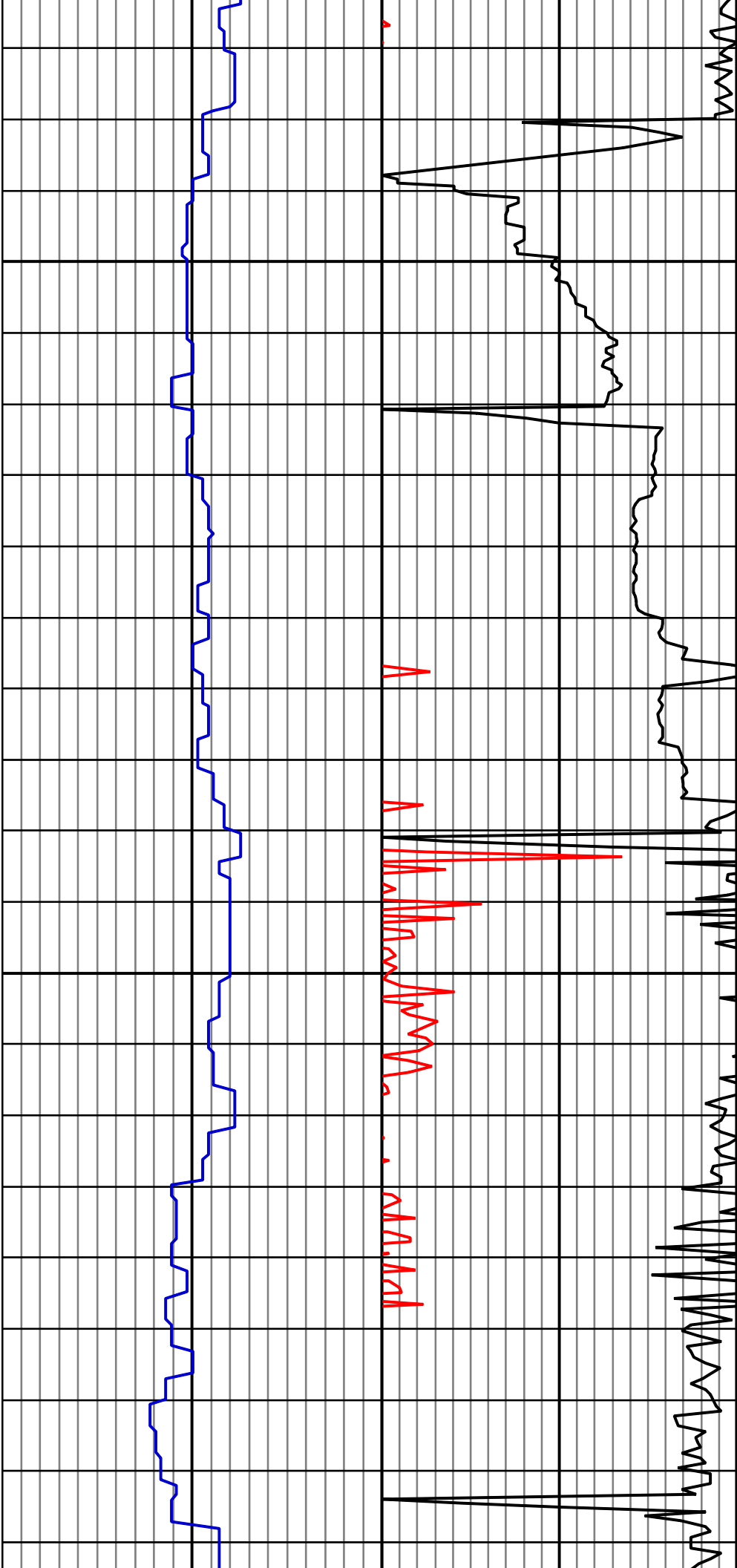
MD: 5856.00 INC: 89.30 AZ: 359.80 TVD: 5427.50 VS: 7062856.00



MD: 5949.00 INC: 88.90 AZ: 359.20 TVD: 5428.96 VS: 7995.049.00

MD: 6043.00 INC: 90.10 AZ: 358.20 TVD: 5429.78 VS: 8935.043.00

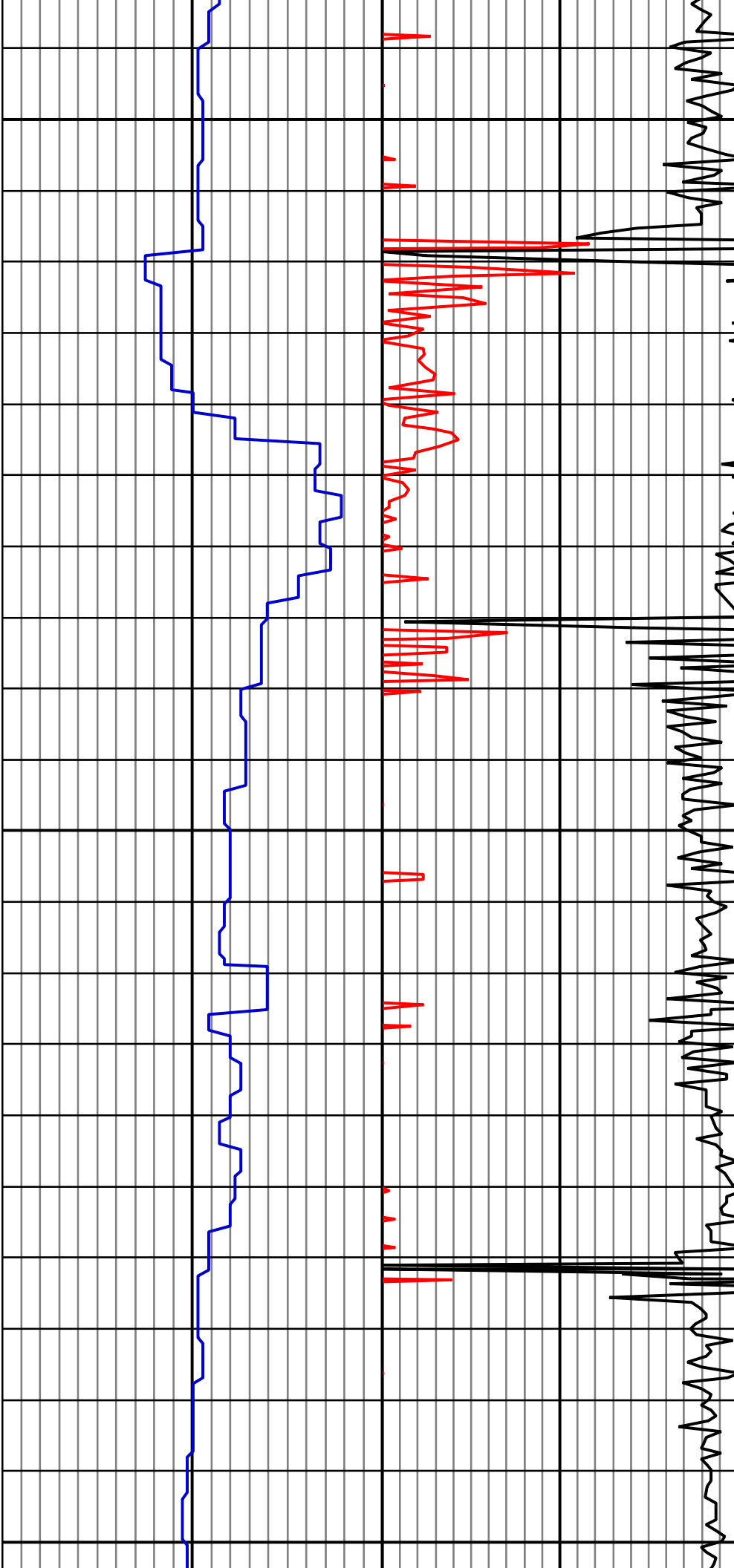
MD: 6136.00 INC: 89.30 AZ: 357.60 TVD: 5430.27 VS: 9855.536.00



MD: 6229.00 INC: 90.50 AZ: 359.80 TVD: 5430.43 VS: 1076.229.00

MD: 6323.00 INC: 90.20 AZ: 359.60 TVD: 5429.86 VS: 1178.823.00





MD: 6416.00 INC: 90.30 AZ: 359.80 TVD: 5429.45 VS: 1266.826.00

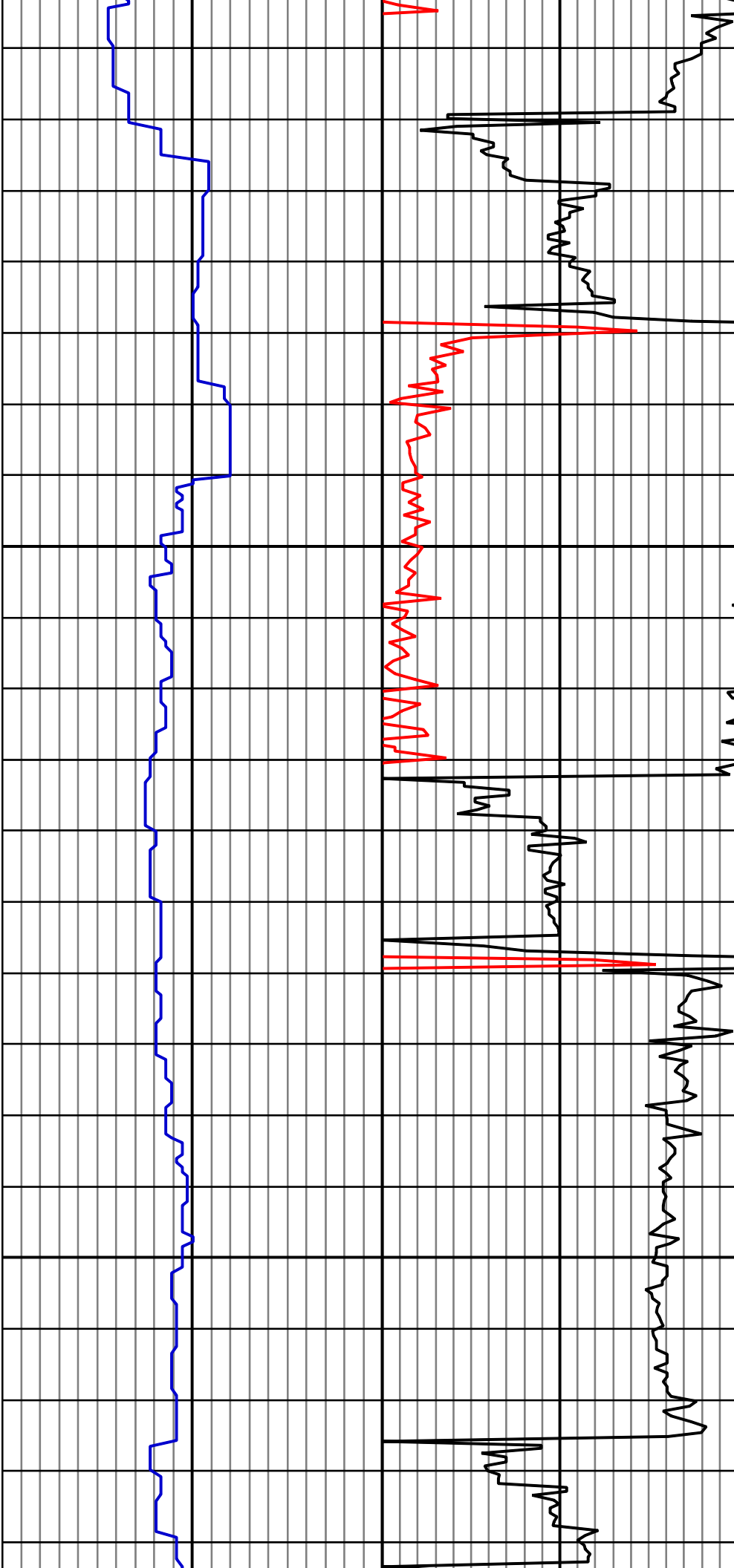
MD: 6509.00 INC: 90.20 AZ: 359.90 TVD: 5429.05 VS: 1356.609.00

MD: 6602.00 INC: 89.80 AZ: 359.90 TVD: 5429.05 VS: 1456.682.00

MD: 6695.00 INC: 89.10 AZ: 1.00 TVD: 5429.94 VS: 1544.77 695.00

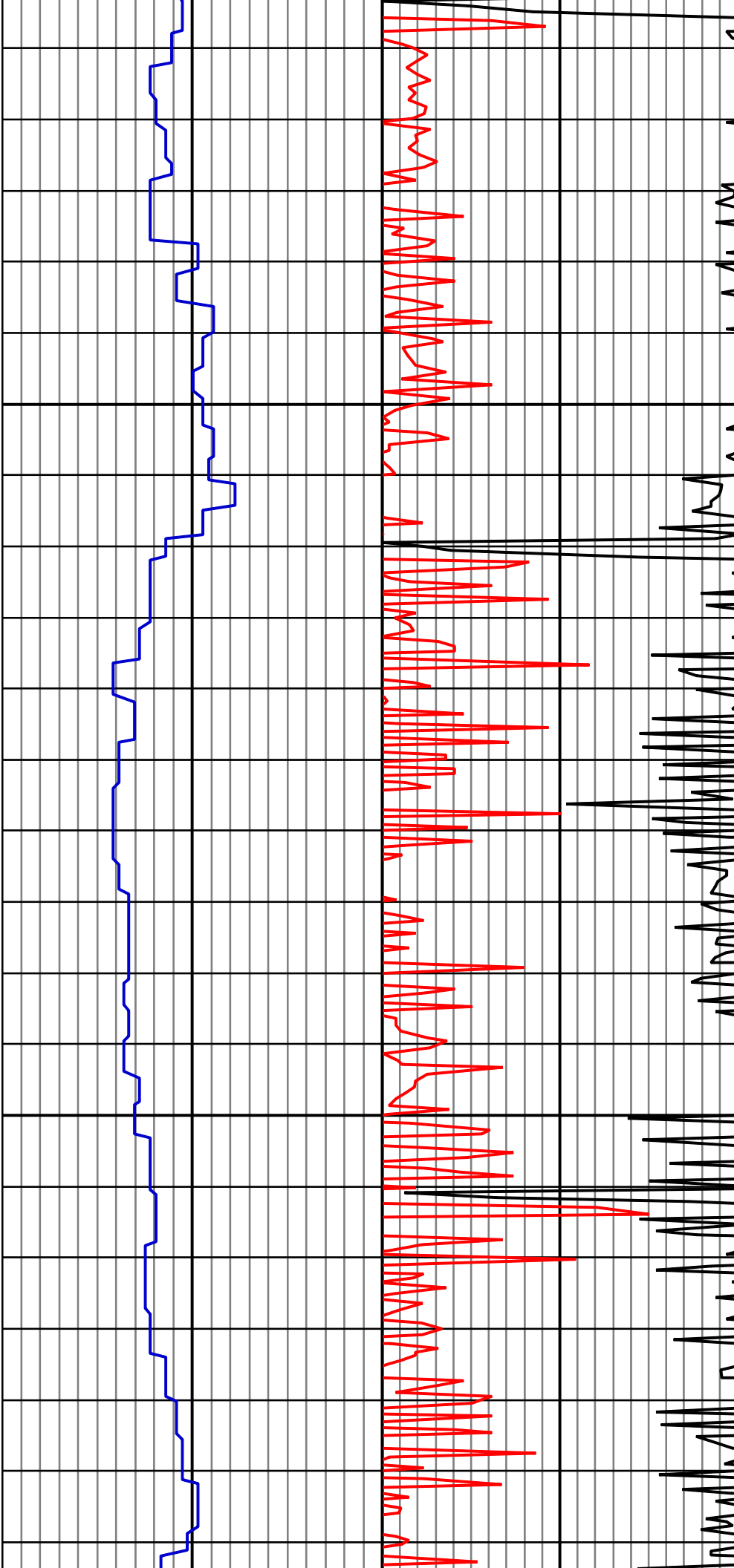
MD: 6695.00 INC: 89.10 AZ: 1.00 TVD: 5429.94 VS: 1544.77 695.00

MD: 6788.00 INC: 88.30 AZ: 0.50 TVD: 5432.05 VS: 1637.75 788.00



MD: 6881.00 INC: 89.60 AZ: 0.30 TVD: 5433.75 VS: 1730.75 881.00

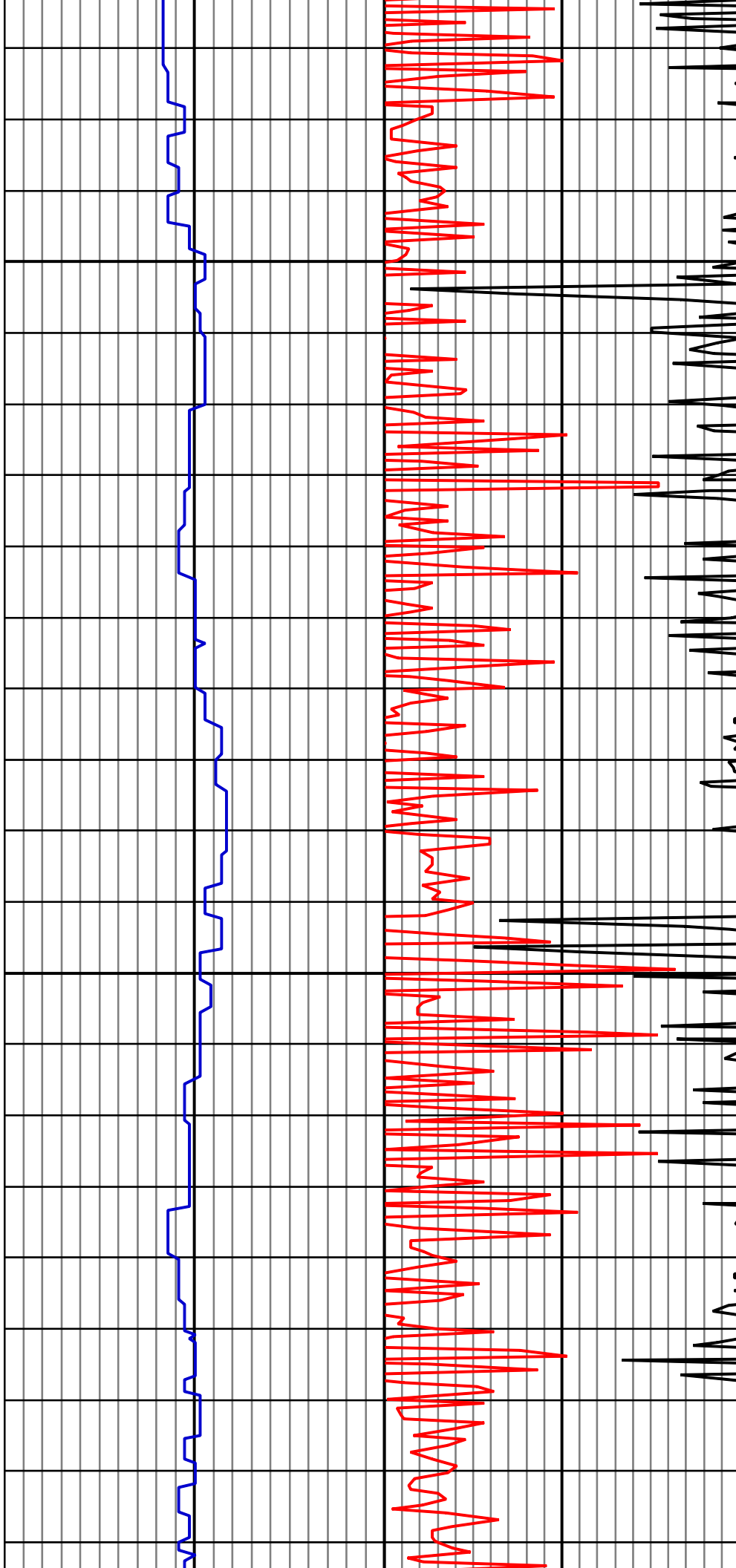
MD: 6974.00 INC: 90.00 AZ: 0.50 TVD: 5434.08 VS: 1823.75 974.00



MD: 7067.00 INC: 91.70 AZ: 359.70 TVD: 5432.70 VS: 1916.067.00

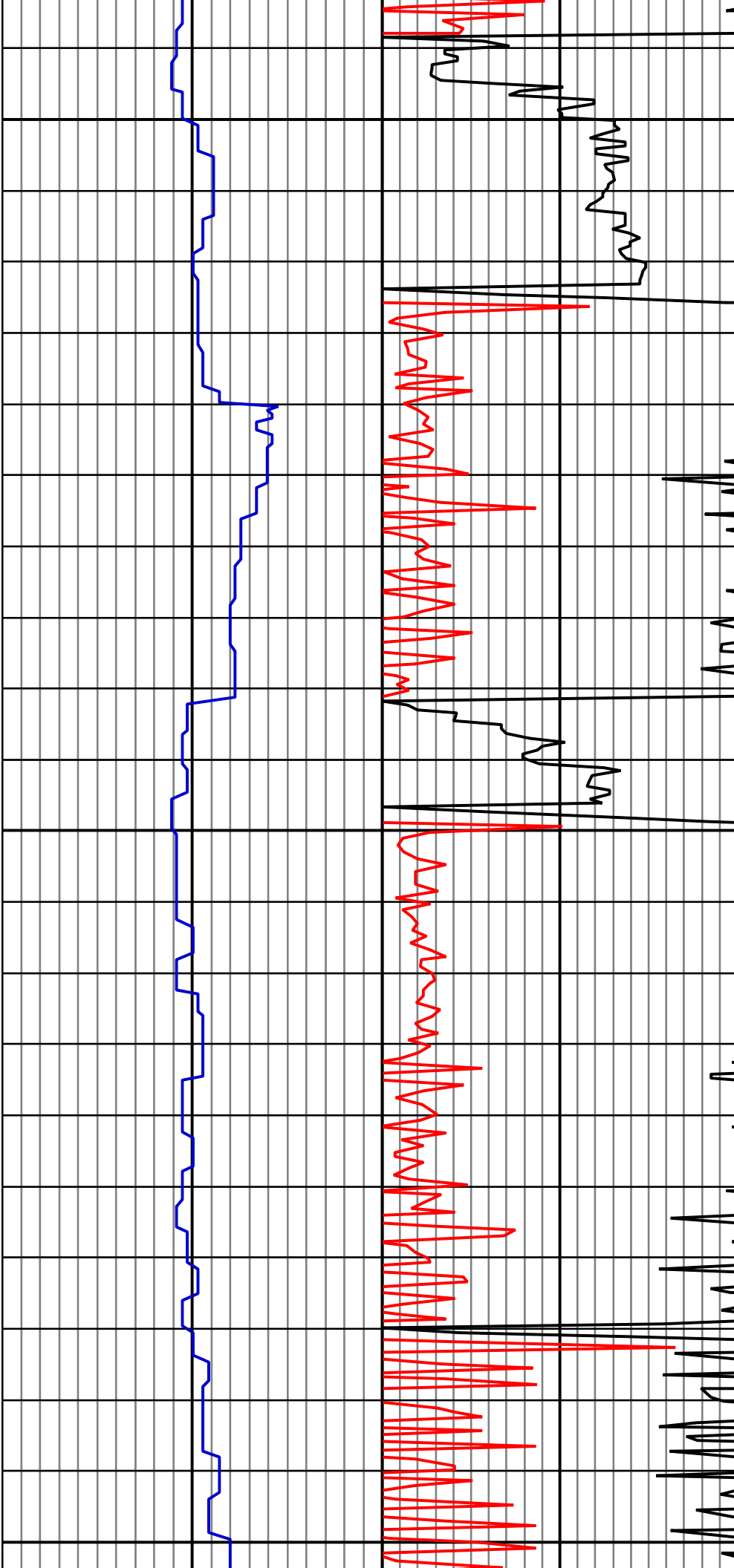
MD: 7160.00 INC: 91.20 AZ: 359.30 TVD: 5430.35 VS: 2007.680.00

MD: 7253.00 INC: 90.90 AZ: 359.20 TVD: 5428.64 VS: 2102.953.00



MD: 7346.00 INC: 90.50 AZ: 359.00 TVD: 5427.51 VS: 2195.536.00

MD: 7439.00 INC: 89.90 AZ: 357.10 TVD: 5427.18 VS: 2287.339.00



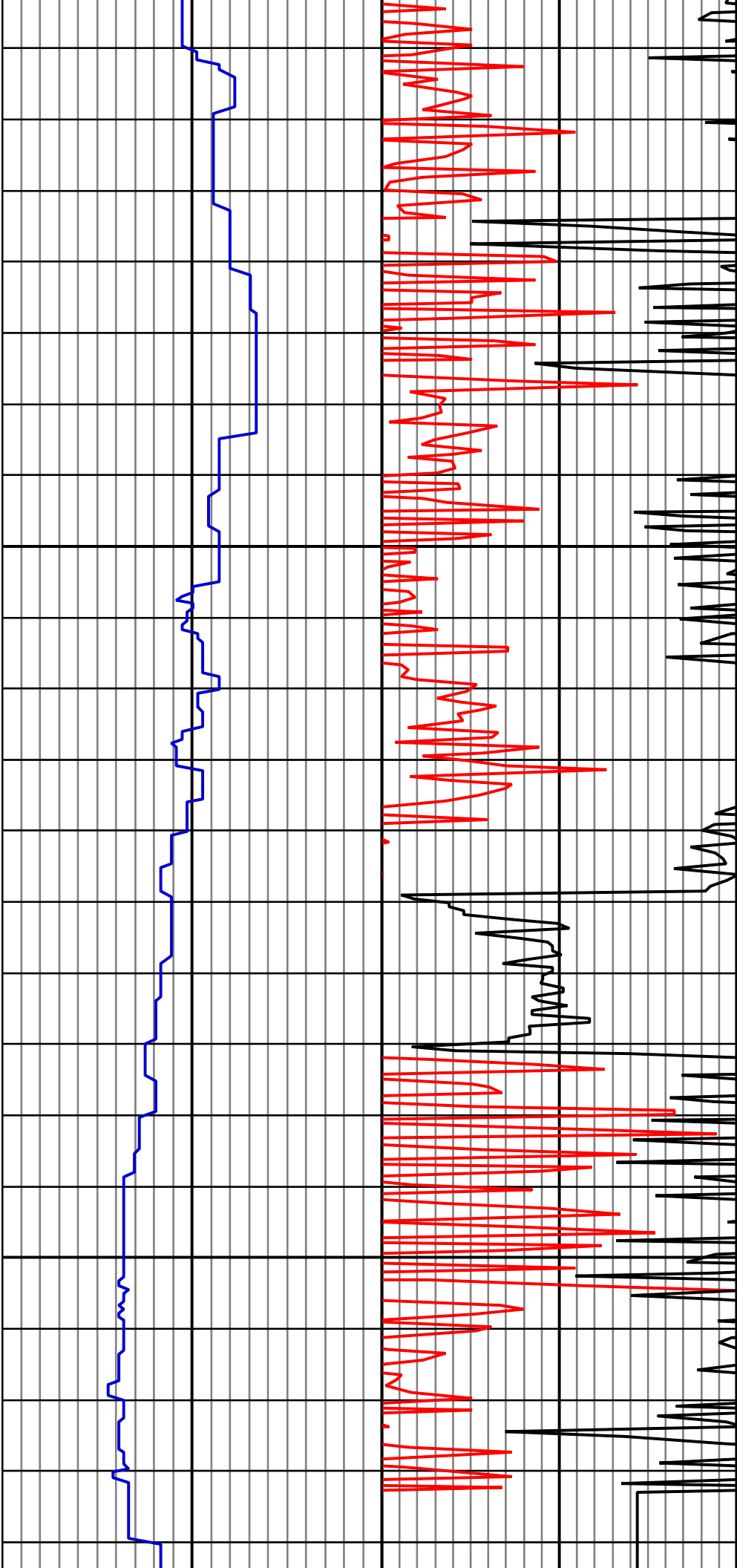
MD: 7533.00 INC: 91.80 AZ: 0.40 TVD: 5425.79 VS: 2382.30 533.00

MD: 7626.00 INC: 90.50 AZ: 359.80 TVD: 5423.92 VS: 2475.22 6.00

MD: 7719.00 INC: 90.20 AZ: 359.60 TVD: 5423.35 VS: 2568.249.00

MD: 7813.00 INC: 89.50 AZ: 359.40 TVD: 5423.60 VS: 2662.213.00

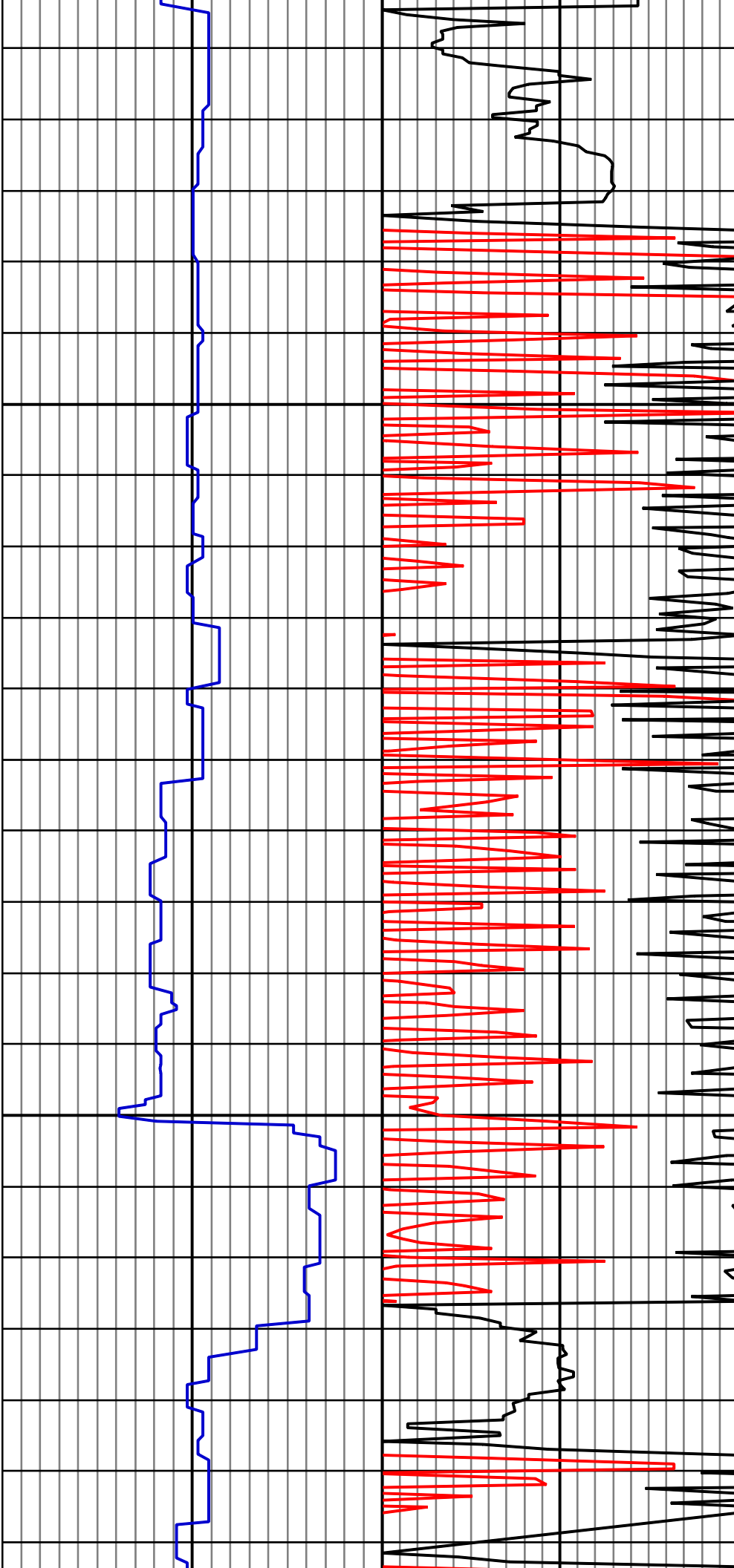
MD: 7906.00 INC: 89.00 AZ: 359.20 TVD: 5424.81 VS: 2755.966.00



MD: 7999.00 INC: 88.50 AZ: 359.10 TVD: 5426.84 VS: 2848.099.00

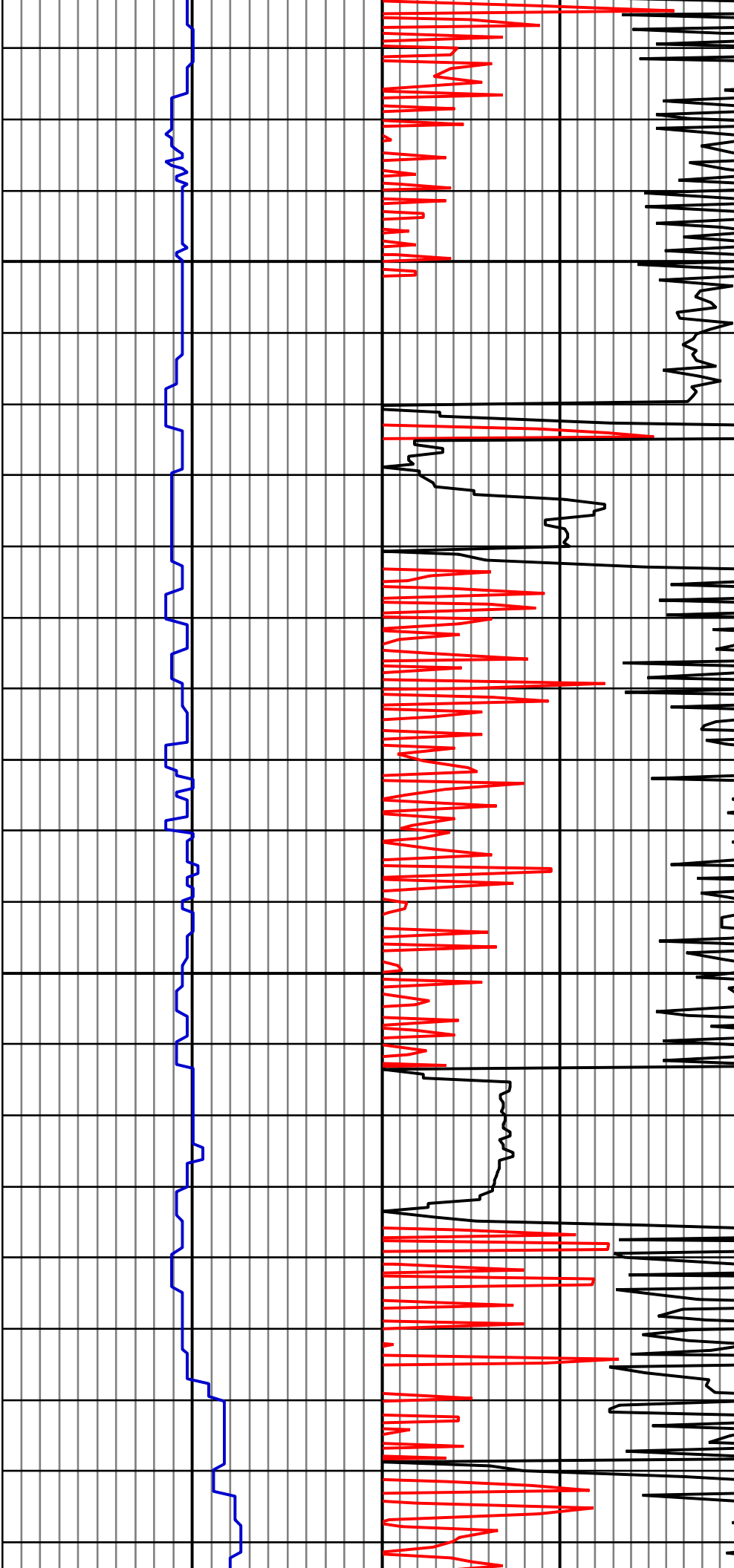
MD: 8092.00 INC: 89.00 AZ: 359.40 TVD: 5428.87 VS: 2948.092.00





MD: 8185.00 INC: 90.60 AZ: 359.90 TVD: 5429.20 VS: 3034.085.00

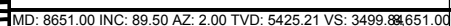
MD: 8278.00 INC: 90.50 AZ: 359.90 TVD: 5428.30 VS: 3128.978.00



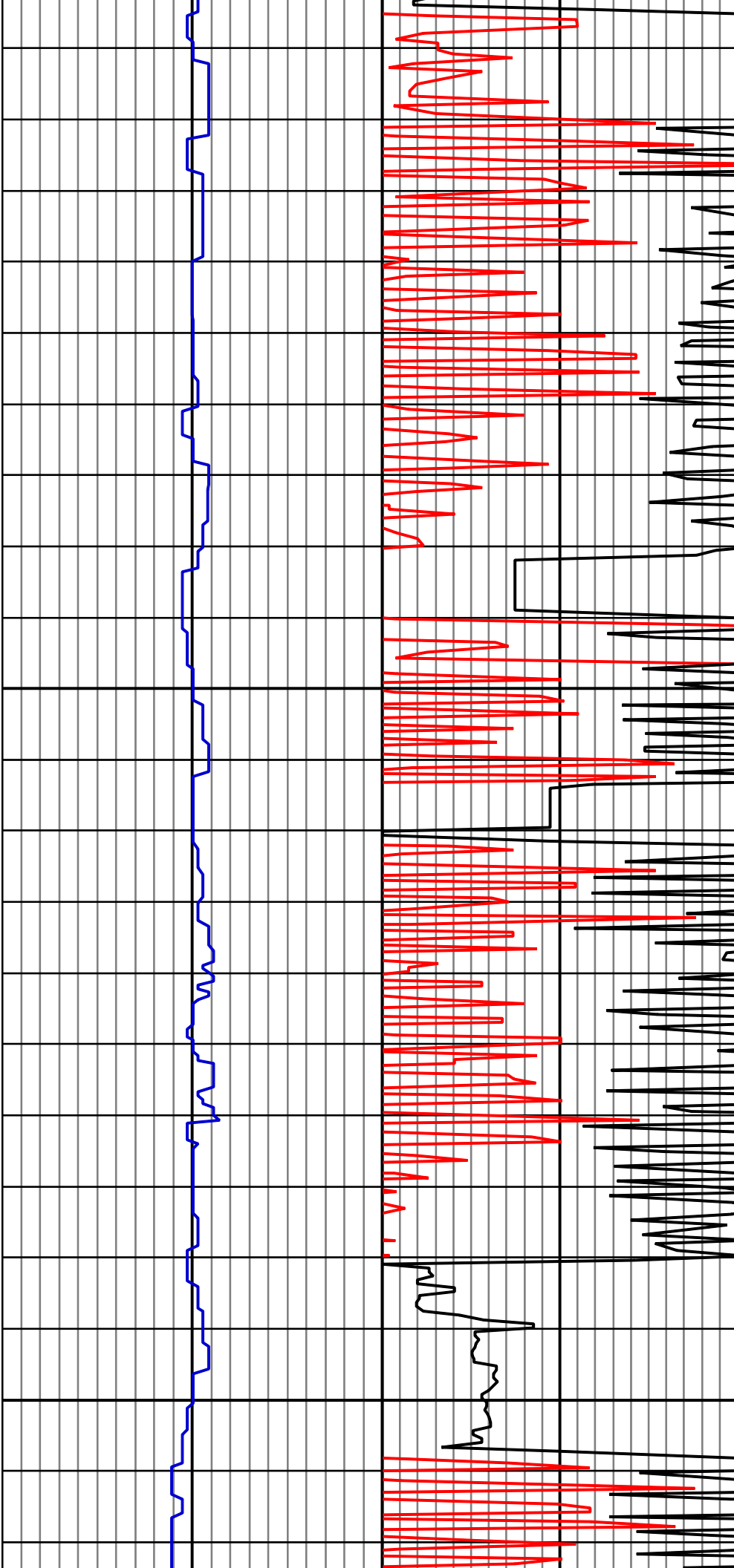
MD: 8372.00 INC: 91.10 AZ: 2.10 TVD: 5426.99 VS: 3220.96 372.00

MD: 8465.00 INC: 91.00 AZ: 3.40 TVD: 5425.29 VS: 3313.90 465.00

MD: 8558.00 INC: 89.80 AZ: 1.90 TVD: 5424.64 VS: 3406.85 558.00



MD: 8744.00 INC: 88.70 AZ: 1.50 TVD: 5426.67 VS: 3592.82 744.00



MD: 8837.00 INC: 90.20 AZ: 1.40 TVD: 5427.56 VS: 3685.88 837.00

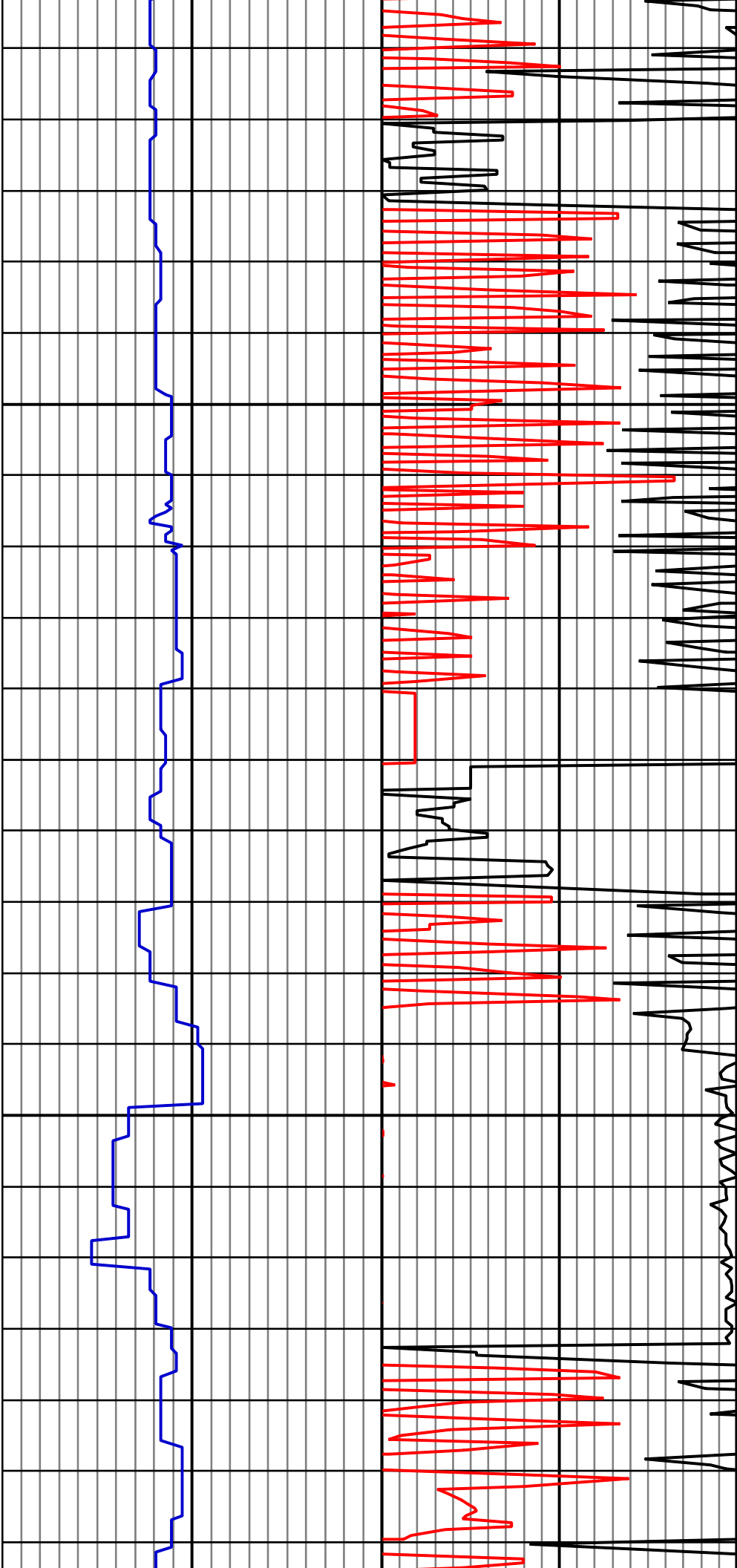
MD: 8930.00 INC: 90.40 AZ: 2.60 TVD: 5427.07 VS: 3778.79 930.00

MD: 9023.00 INC: 90.10 AZ: 1.00 TVD: 5426.67 VS: 3871.79 023.00

MD: 9023.00 INC: 90.10 AZ: 1.00 TVD: 5426.67 VS: 3871.79 023.00

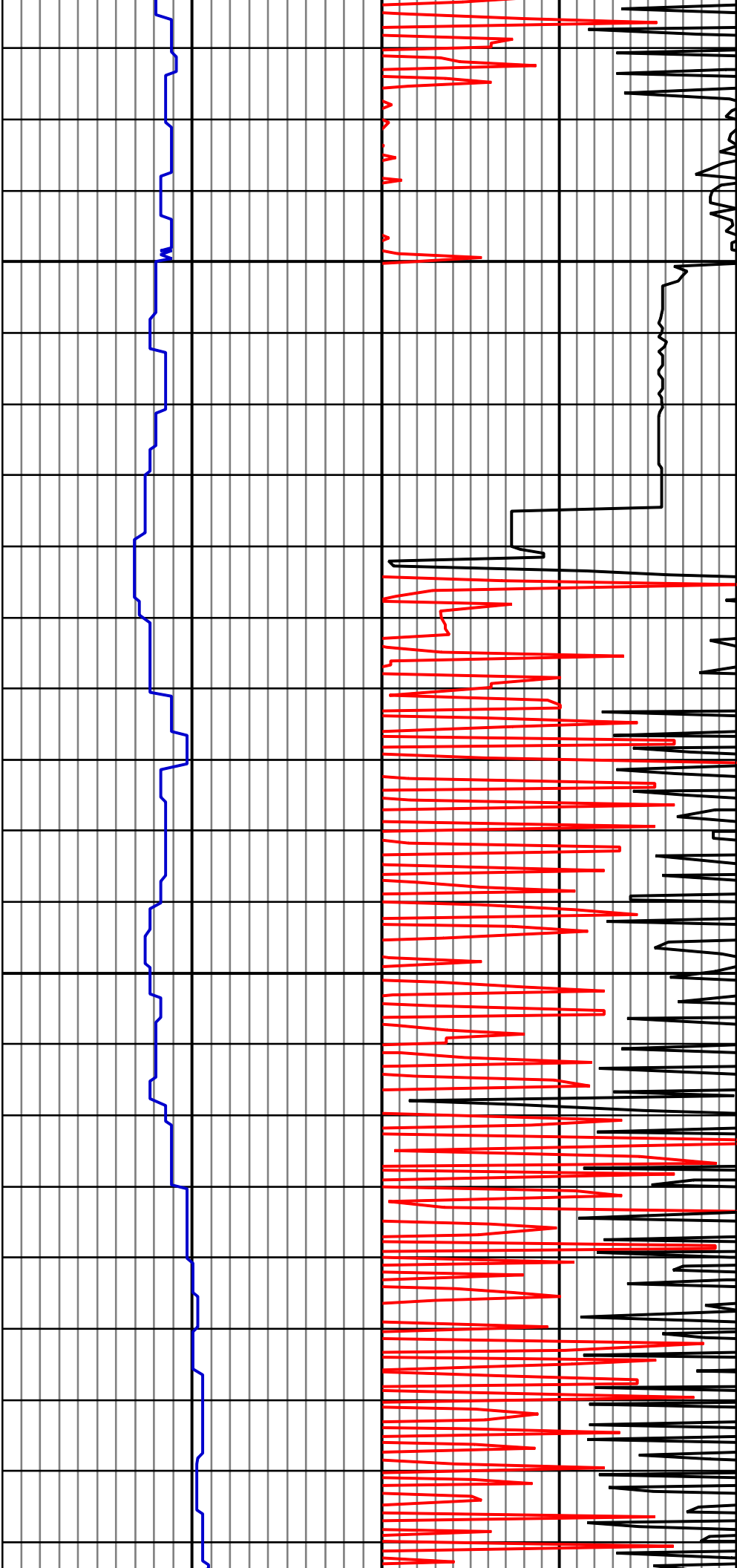
MD: 9116.00 INC: 89.70 AZ: 1.00 TVD: 5426.83 VS: 3964.79 116.00

MD: 9209.00 INC: 88.90 AZ: 1.00 TVD: 5427.97 VS: 4057.79 209.00



MD: 9302.00 INC: 88.70 AZ: 0.60 TVD: 5429.91 VS: 4150.75 302.00

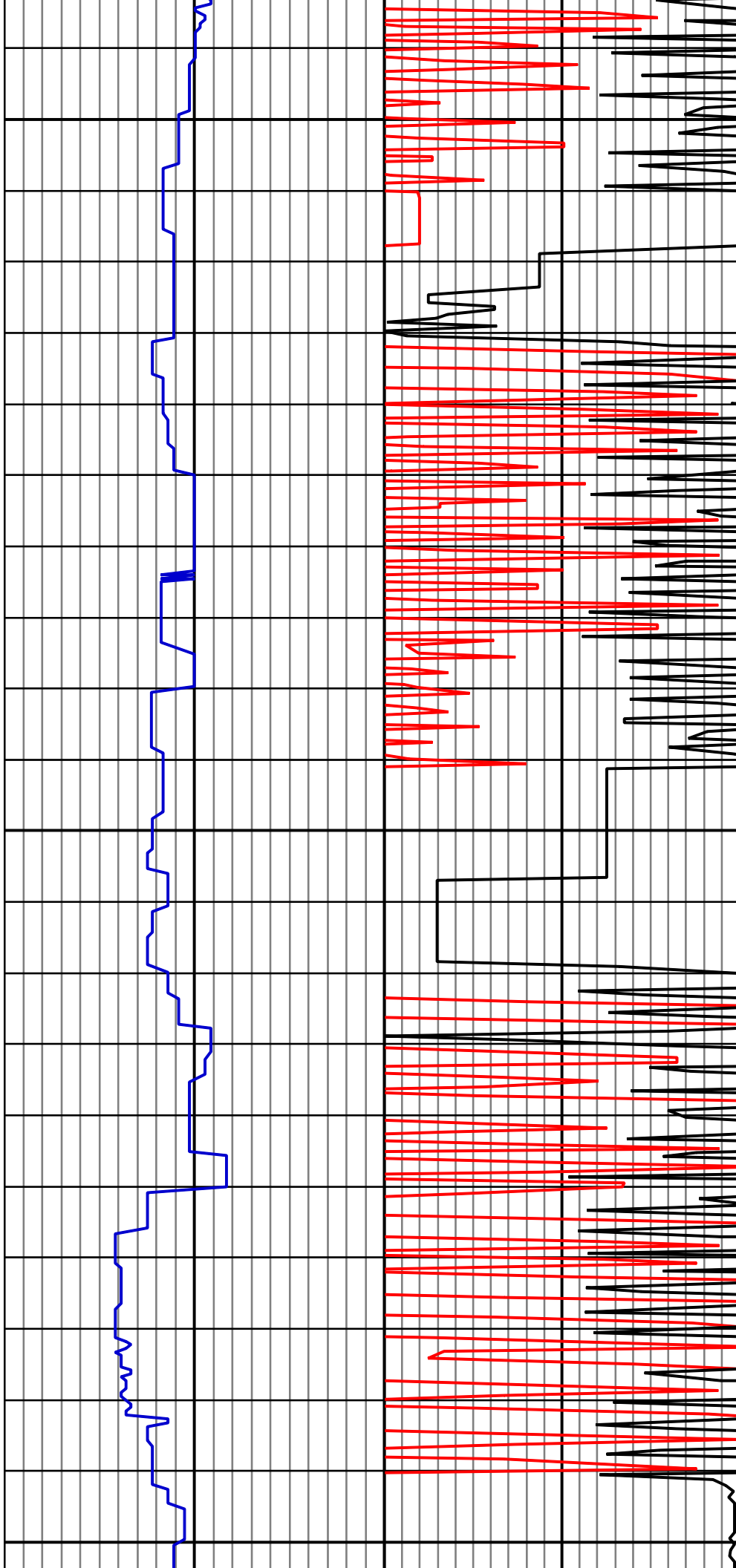
MD: 9395.00 INC: 89.60 AZ: 359.10 TVD: 5431.29 VS: 4249.29 5.00



MD: 9488.00 INC: 89.30 AZ: 359.30 TVD: 5432.19 VS: 4330.00

MD: 9580.00 INC: 90.10 AZ: 359.20 TVD: 5432.67 VS: 4428.00

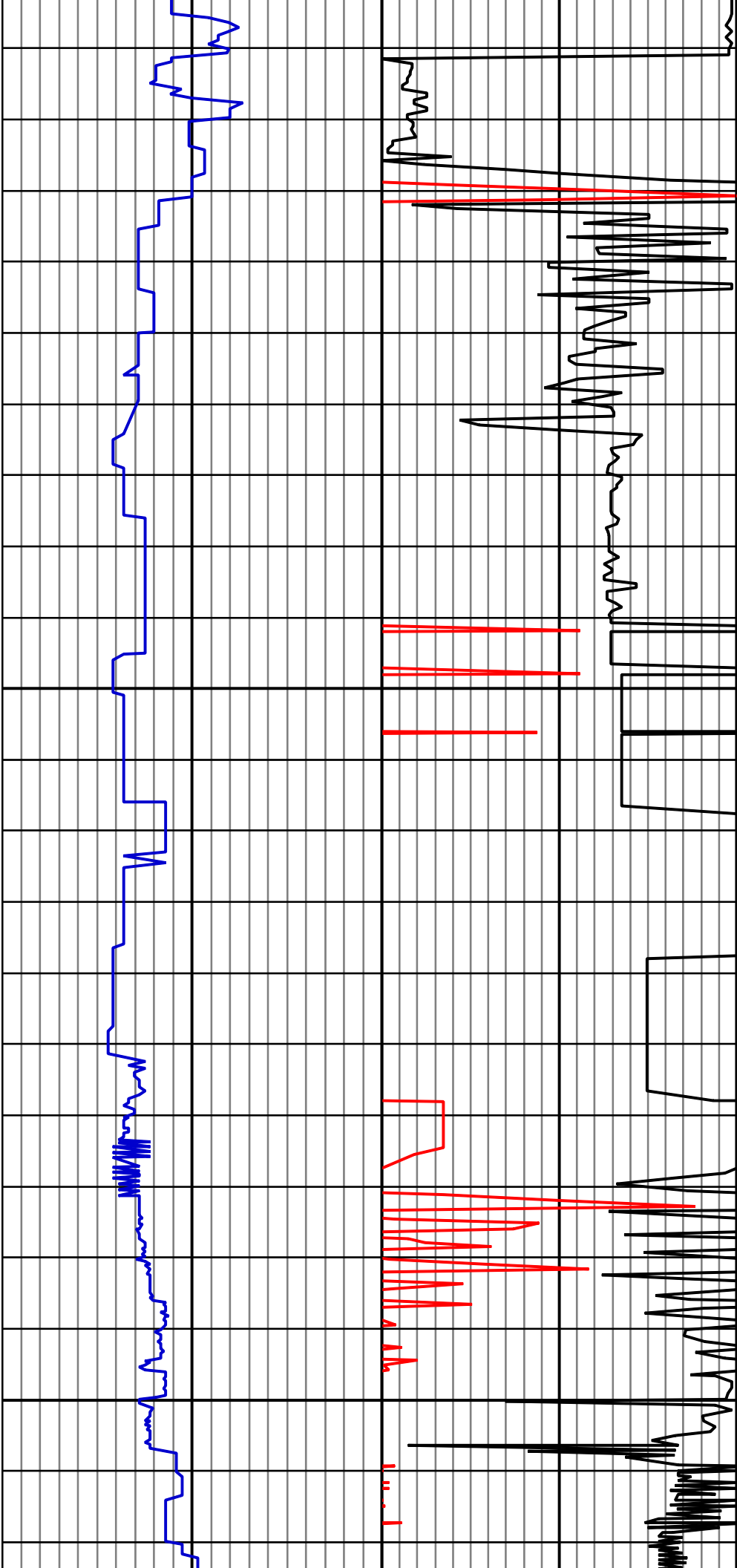
MD: 9673.00 INC: 89.50 AZ: 359.30 TVD: 5432.99 VS: 4529.00



MD: 9765.00 INC: 89.80 AZ: 359.30 TVD: 5433.55 VS: 4619.55

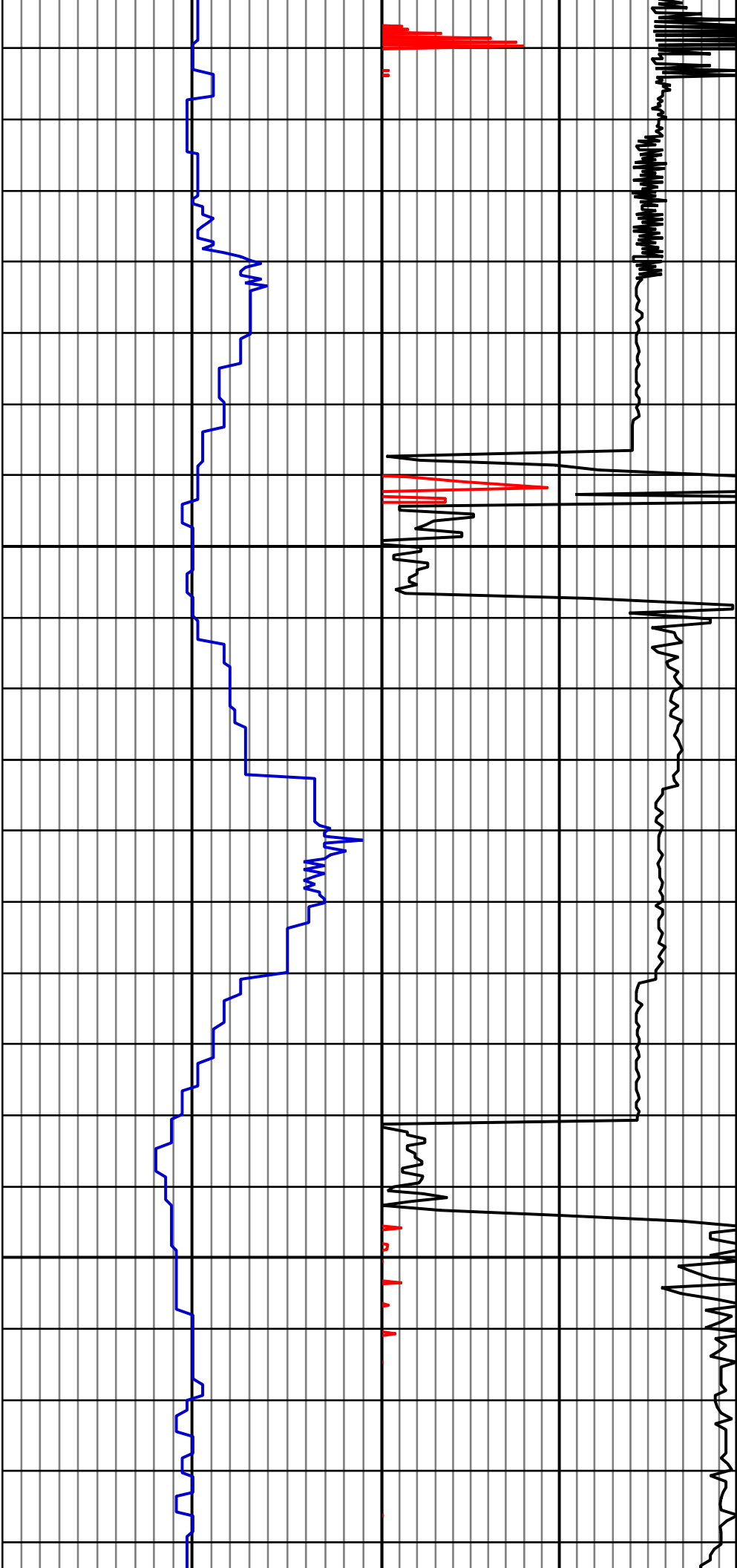
MD: 9858.00 INC: 89.60 AZ: 358.70 TVD: 5434.04 VS: 4709.58





MD: 9950.00 INC: 92.10 AZ: 359.40 TVD: 5432.68 VS: 4799.550.00

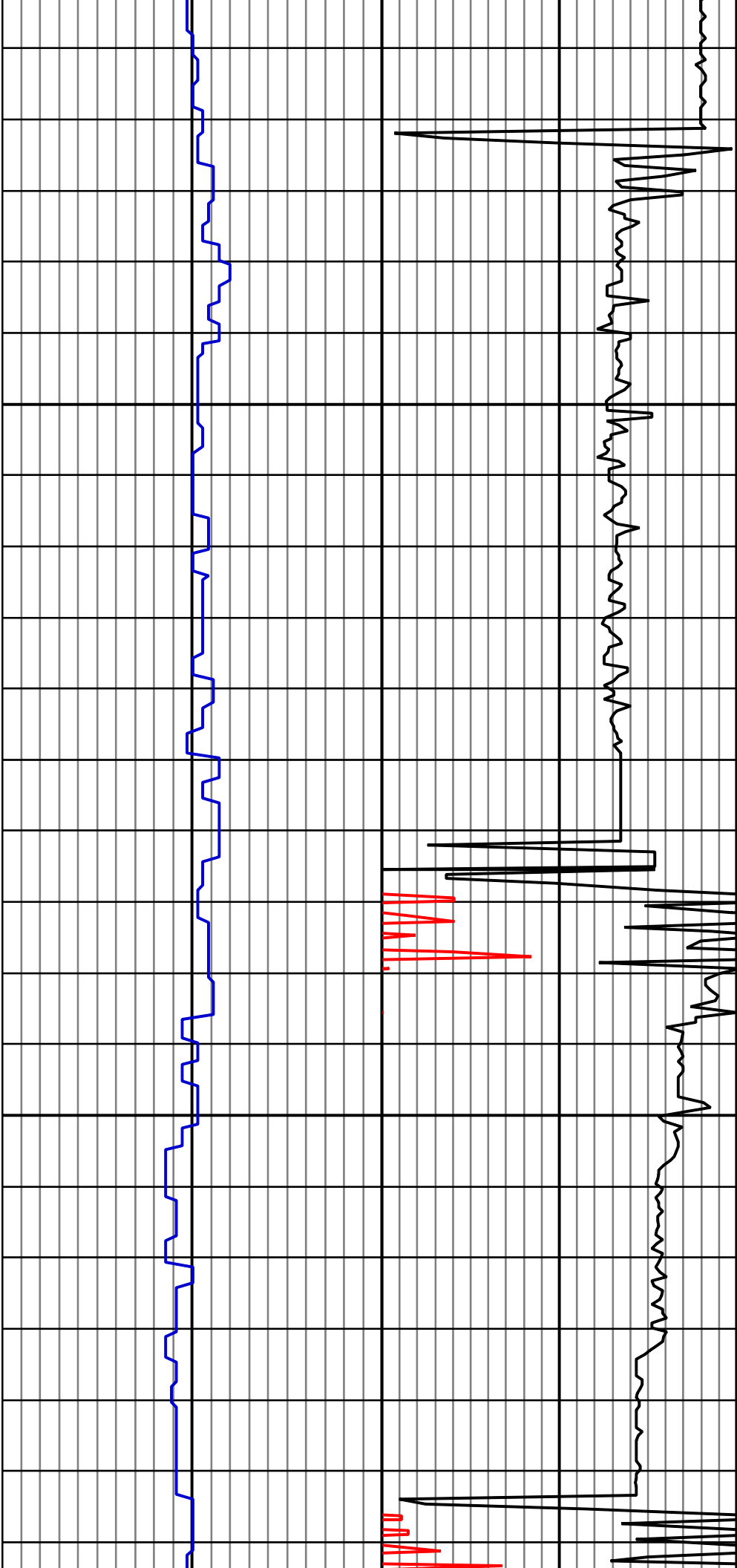
MD: 10043.00 INC: 92.00 AZ: 358.60 TVD: 5429.35 VS: 489.089.00



MD: 10135.00 INC: 91.30 AZ: 359.30 TVD: 5426.70 VS: 4903.26.00

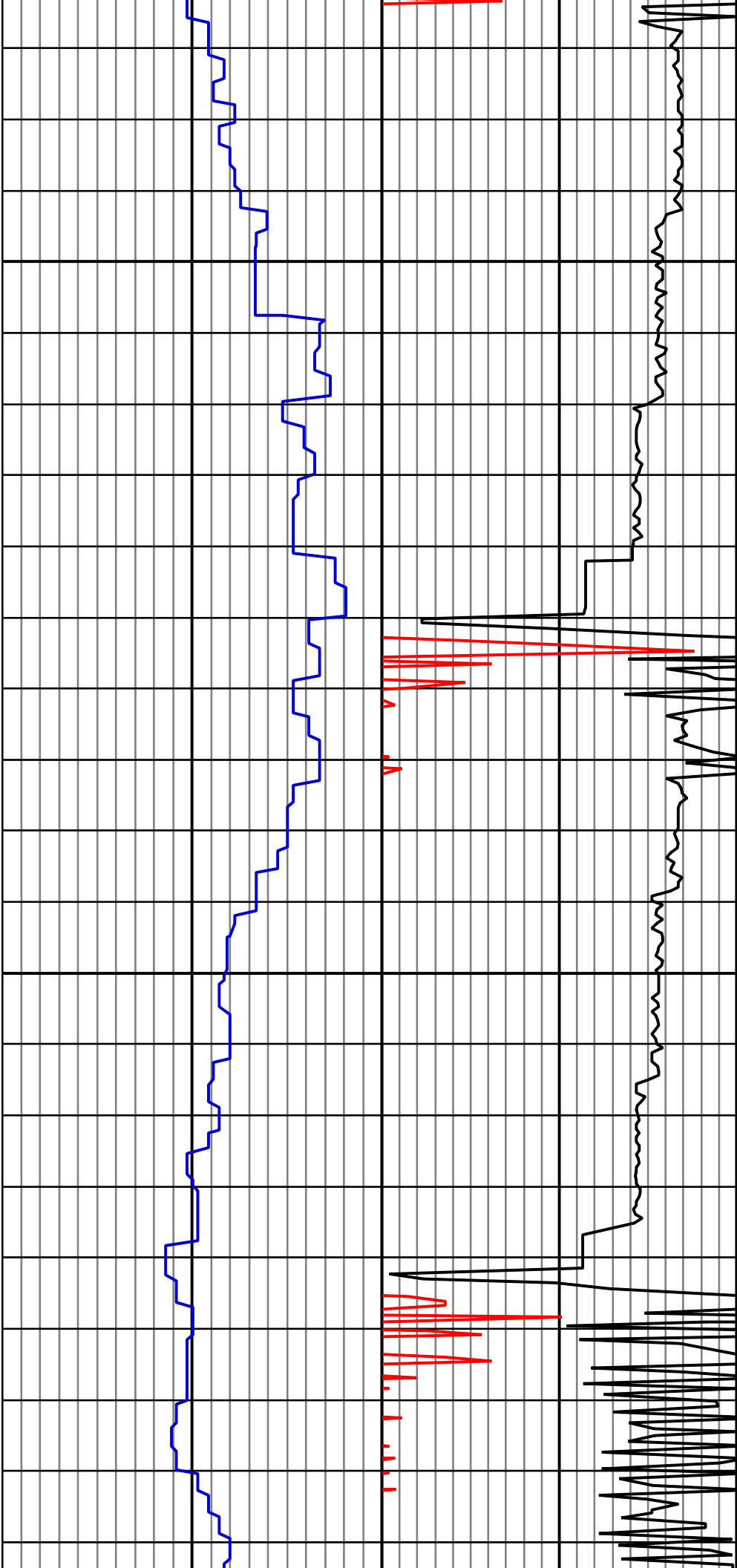
MD: 10227.00 INC: 91.20 AZ: 359.90 TVD: 5424.69 VS: 5005.25.00

MD: 10320.00 INC: 90.00 AZ: 1.80 TVD: 5423.72 VS: 5168.04.20.00



MD: 10414.00 INC: 89.60 AZ: 1.30 TVD: 5424.05 VS: 52620.14 14.00

MD: 10506.00 INC: 89.00 AZ: 0.40 TVD: 5425.17 VS: 53540.50 506.00



MD: 10598.00 INC: 89.00 AZ: 0.10 TVD: 5426.78 VS: 54460.698.00

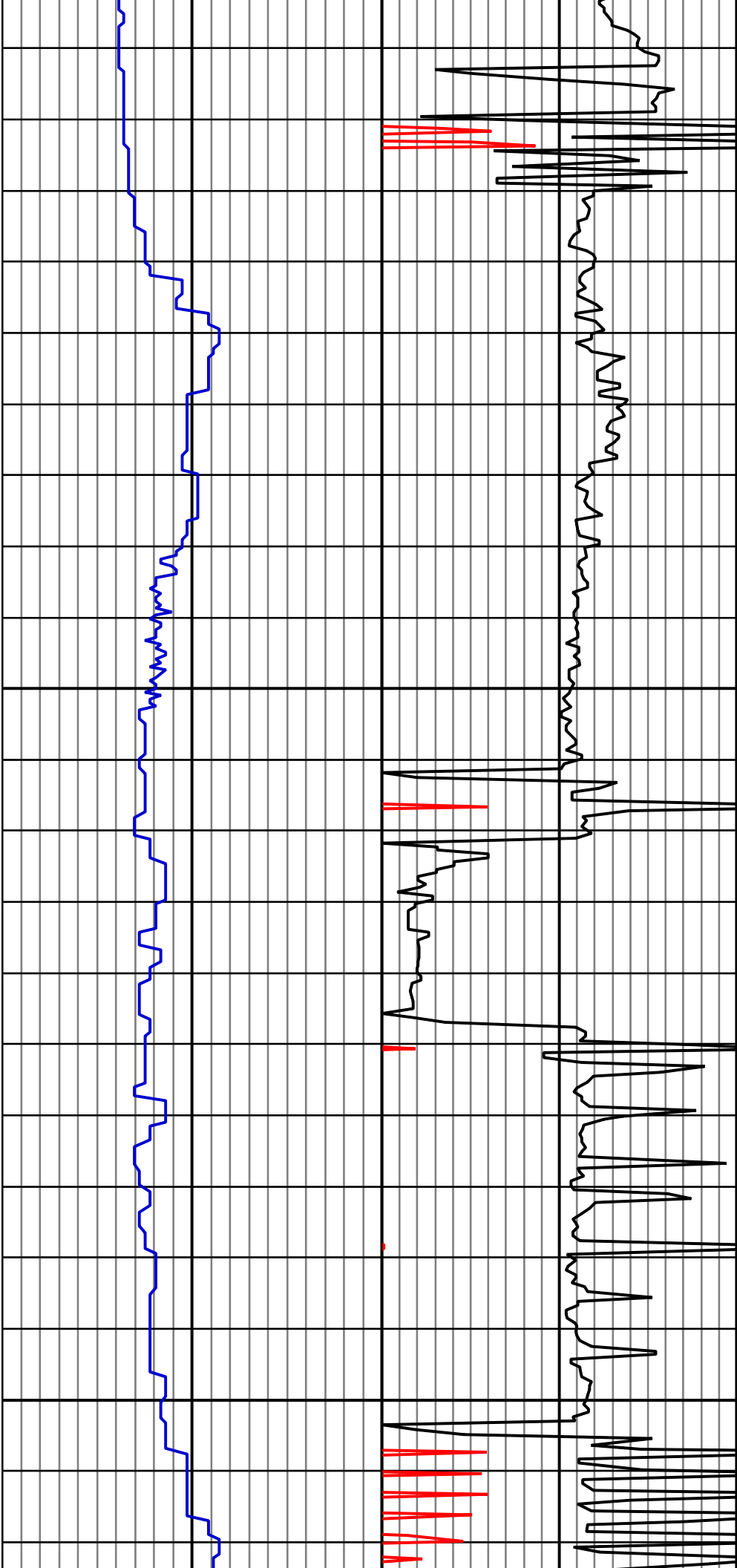
MD: 10690.00 INC: 88.90 AZ: 359.90 TVD: 5428.46 VS: 550690.00

MD: 10783.00 INC: 88.30 AZ: 359.60 TVD: 5430.74 VS: 560763.00

MD: 10783.00 INC: 88.30 AZ: 359.60 TVD: 5430.74 VS: 560.783.00

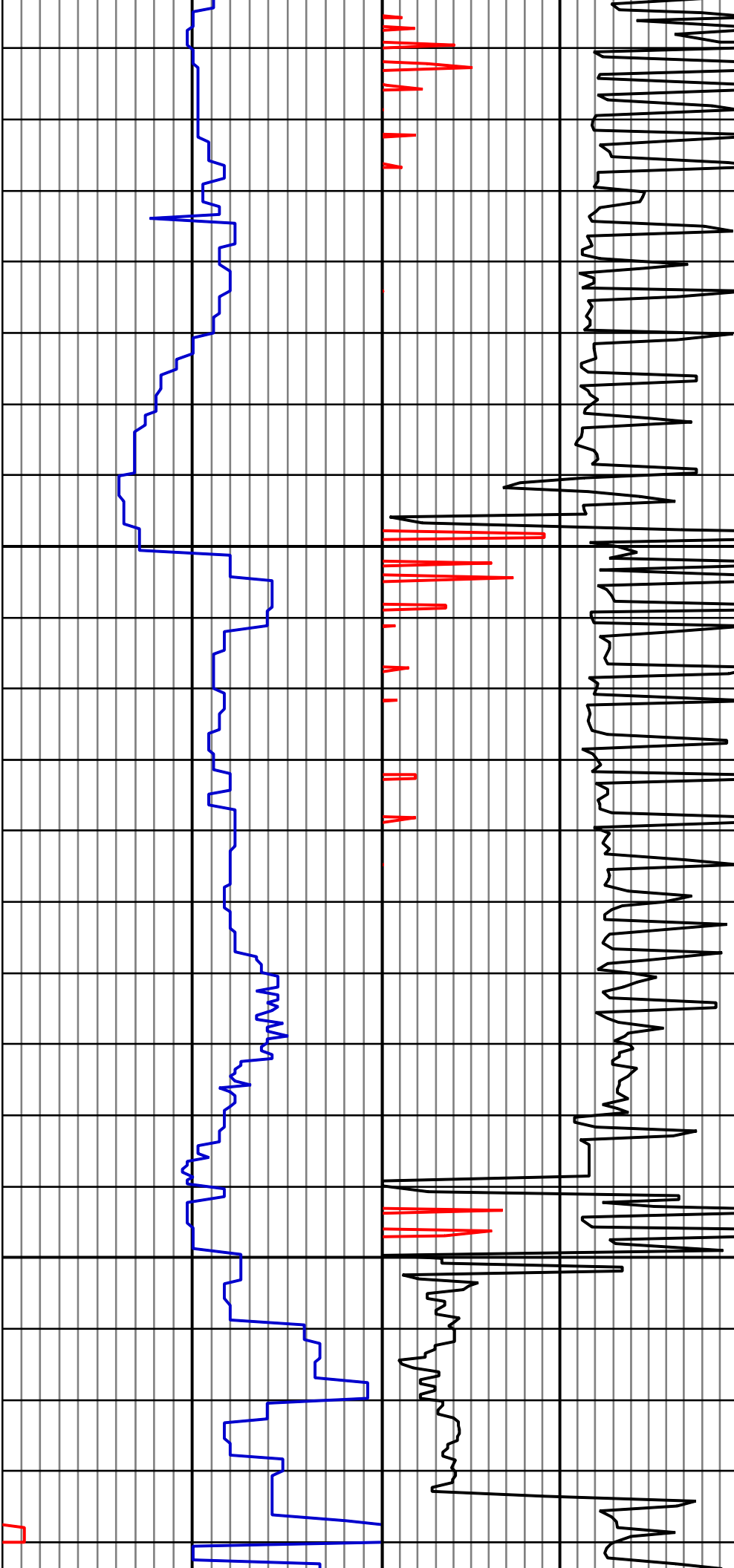
MD: 10875.00 INC: 88.90 AZ: 359.80 TVD: 5432.98 VS: 572.295.00

MD: 10968.00 INC: 90.00 AZ: 359.90 TVD: 5433.88 VS: 580.308.00



MD: 11059.00 INC: 89.60 AZ: 359.30 TVD: 5434.19 VS: 5999.99

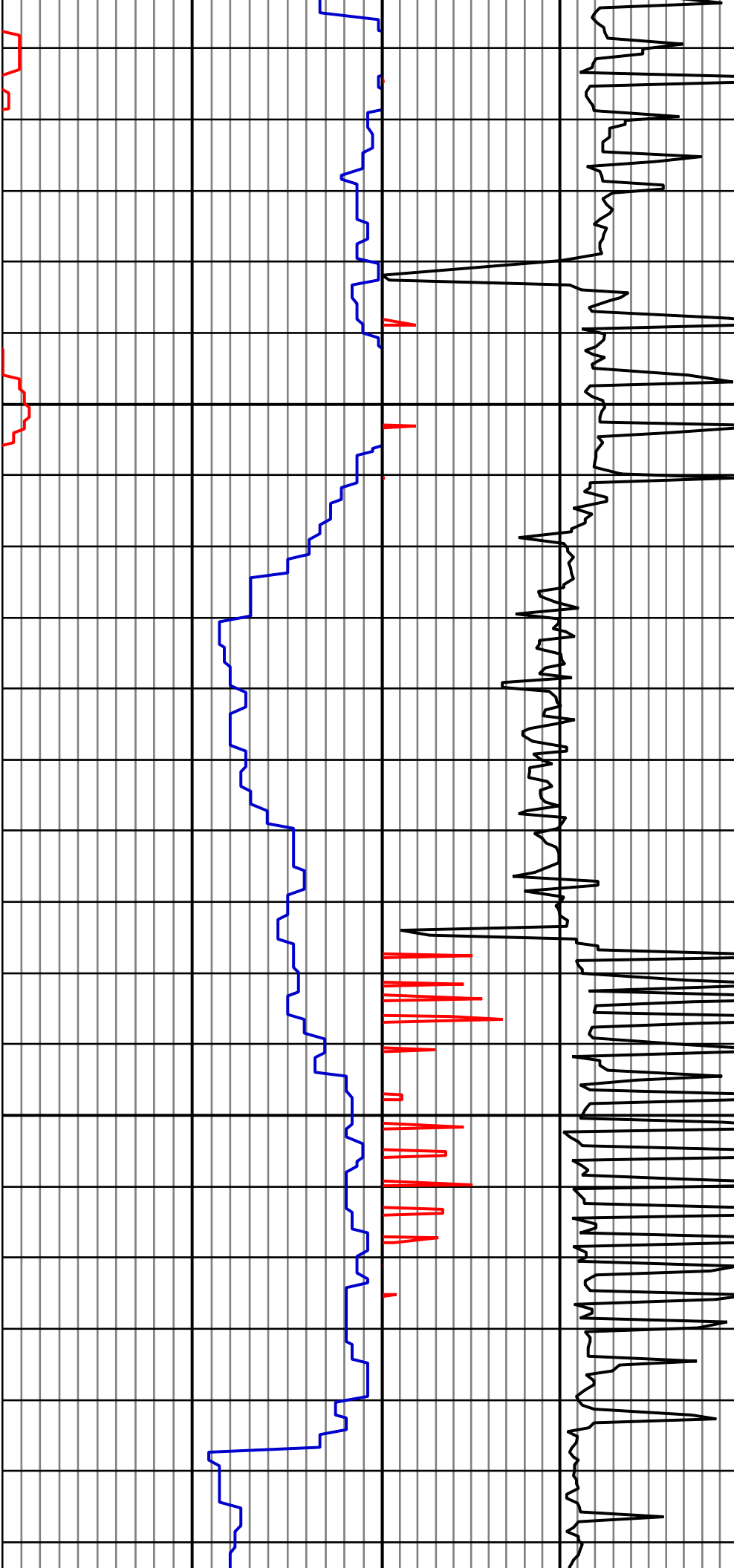
MD: 11152.00 INC: 90.50 AZ: 0.50 TVD: 5434.11 VS: 5999.99



MD: 11245.00 INC: 90.20 AZ: 359.70 TVD: 5433.54 VS: 609289.00

MD: 11337.00 INC: 90.10 AZ: 359.10 TVD: 5433.30 VS: 611488.00

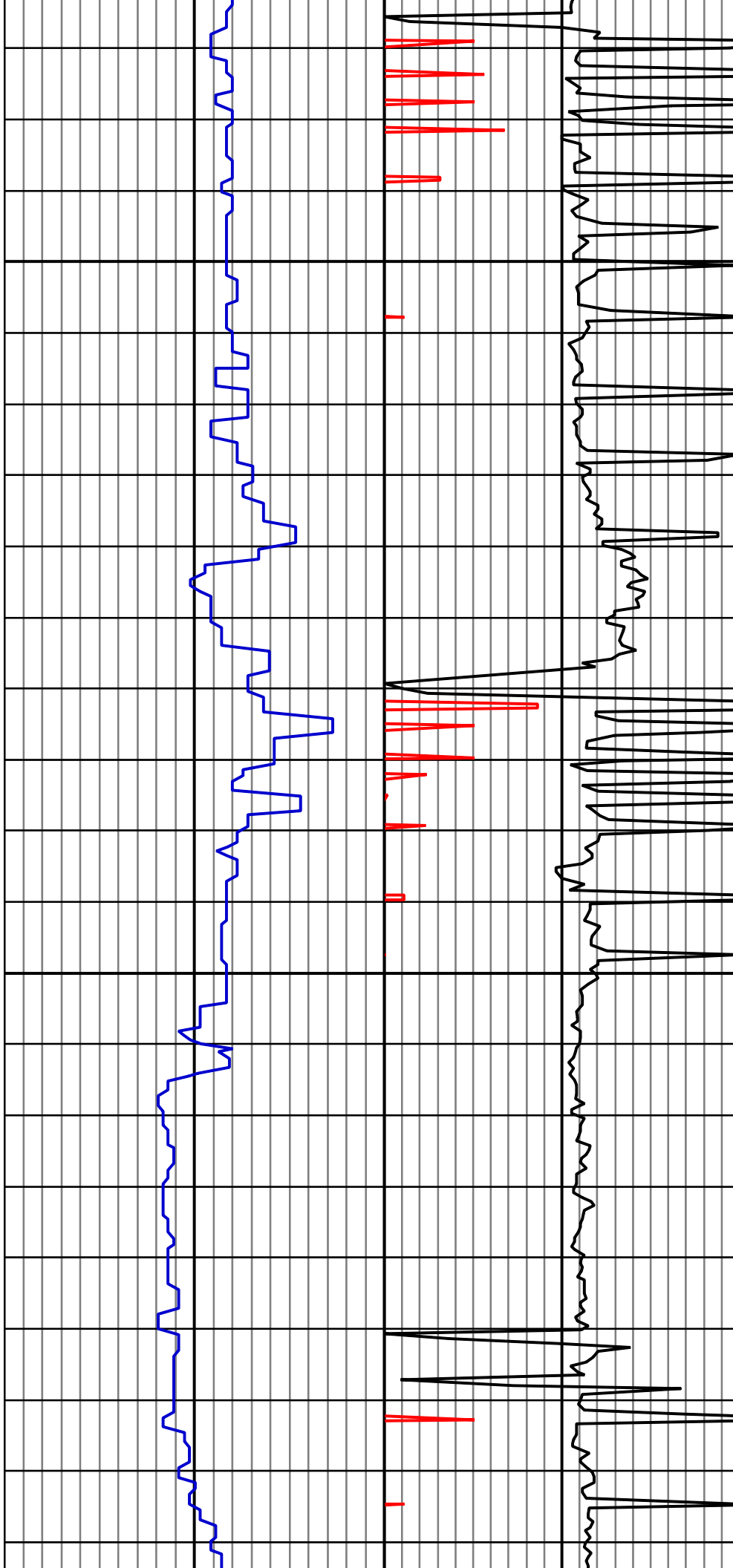
MD: 11430.00 INC: 89.90 AZ: 1.40 TVD: 5433.30 VS: 62778430.00



MD: 11522.00 INC: 89.80 AZ: 0.50 TVD: 5433.54 VS: 6369.8422.00

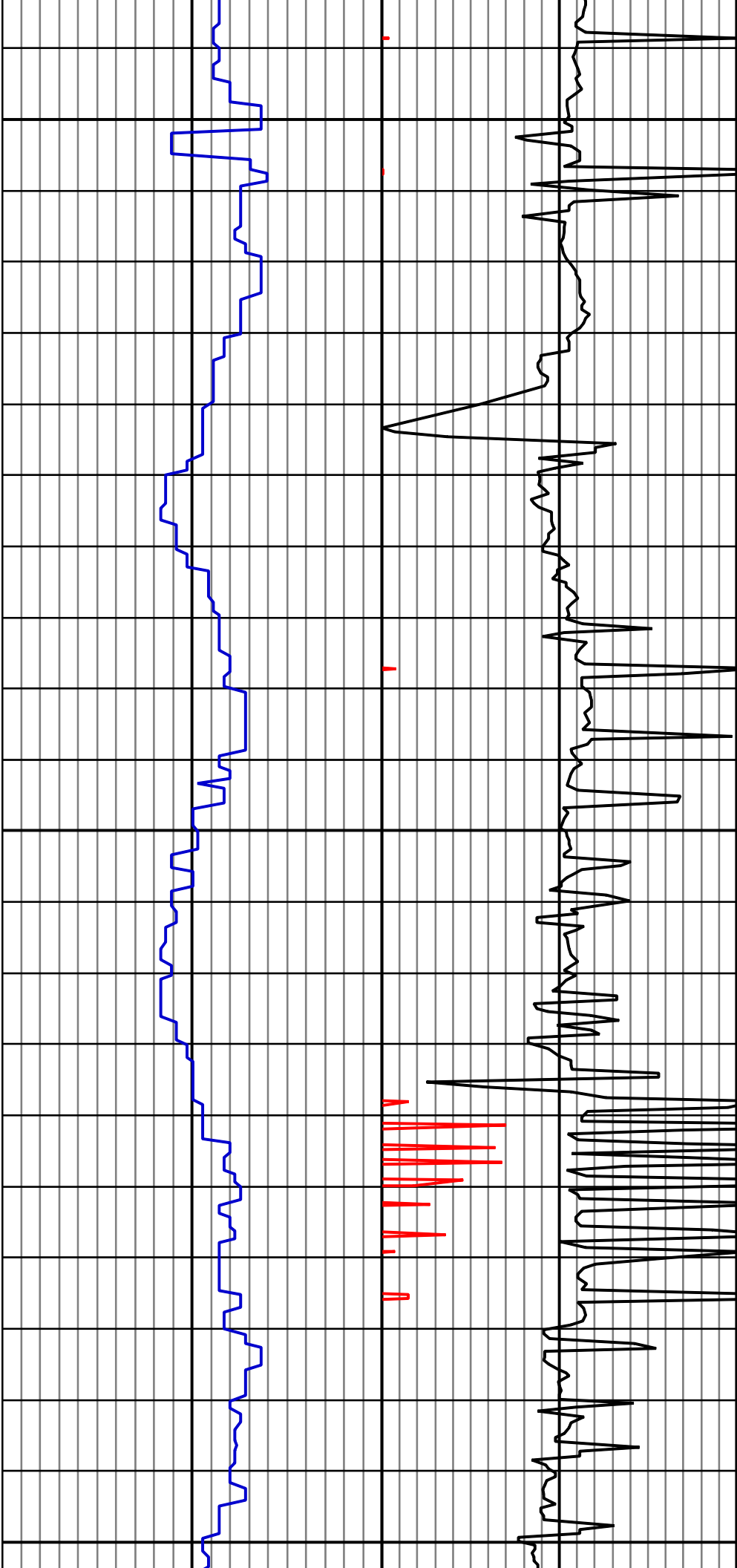
MD: 11615.00 INC: 89.50 AZ: 0.30 TVD: 5434.11 VS: 6462.8815.00





MD: 11707.00 INC: 89.50 AZ: 359.80 TVD: 5434.92 VS: 655.782.00

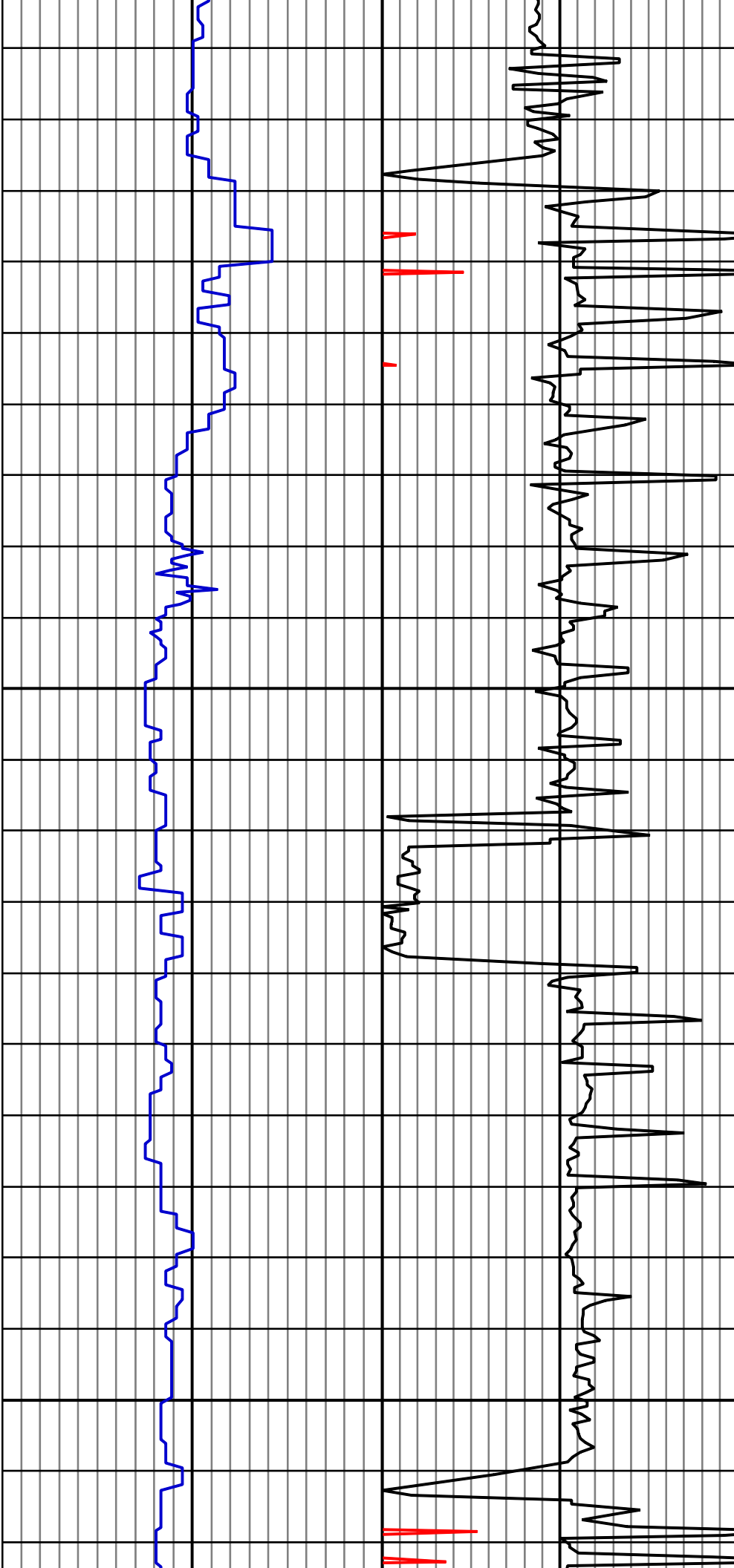
MD: 11800.00 INC: 89.60 AZ: 358.60 TVD: 5435.65 VS: 664.700.00



MD: 11891.00 INC: 90.00 AZ: 359.00 TVD: 5435.96 VS: 673890.00

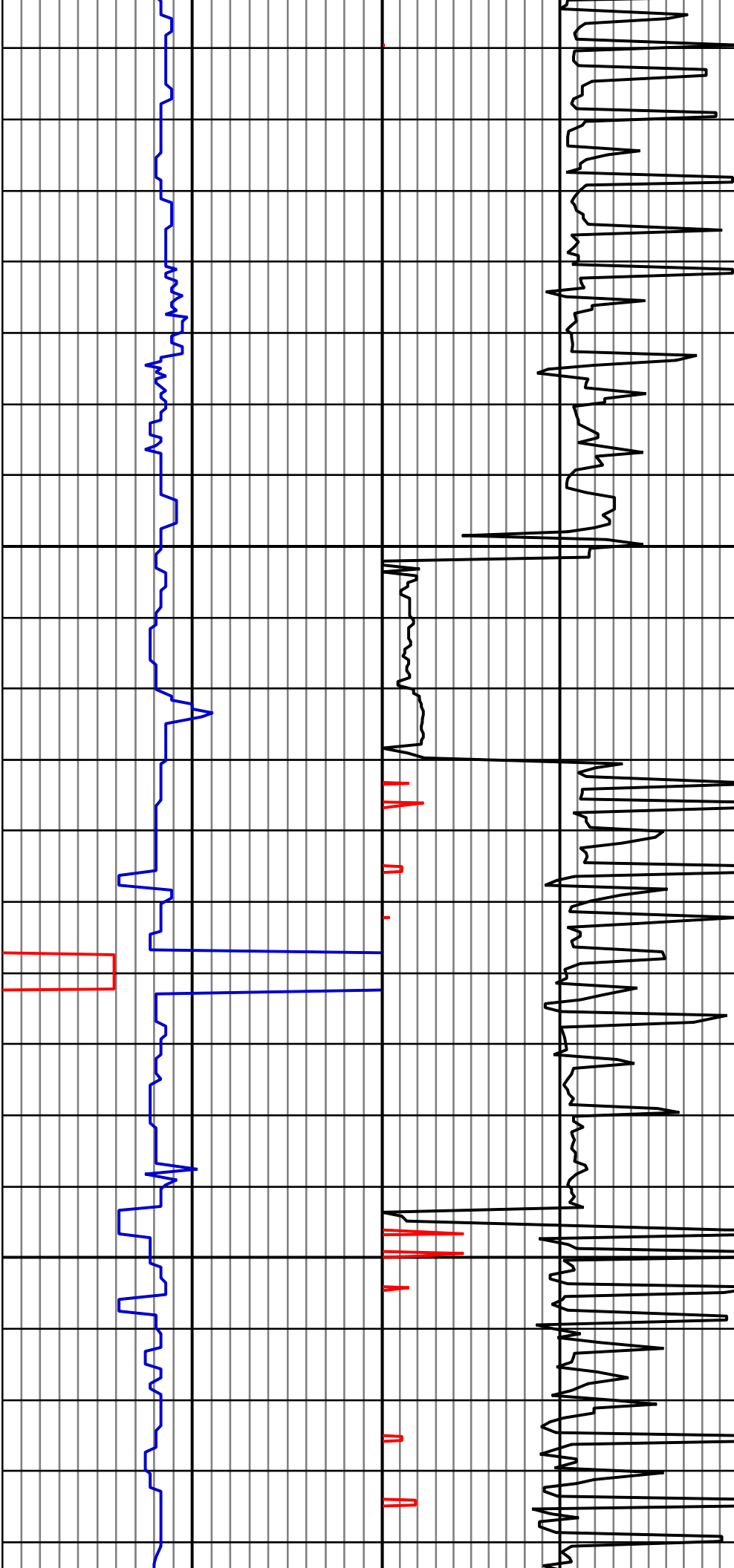
MD: 11983.00 INC: 90.20 AZ: 357.90 TVD: 5435.80 VS: 683083.00

MD: 12075.00 INC: 90.50 AZ: 357.50 TVD: 5435.24 VS: 692276.00



MD: 12168.00 INC: 90.60 AZ: 356.90 TVD: 5434.35 VS: 7025.00

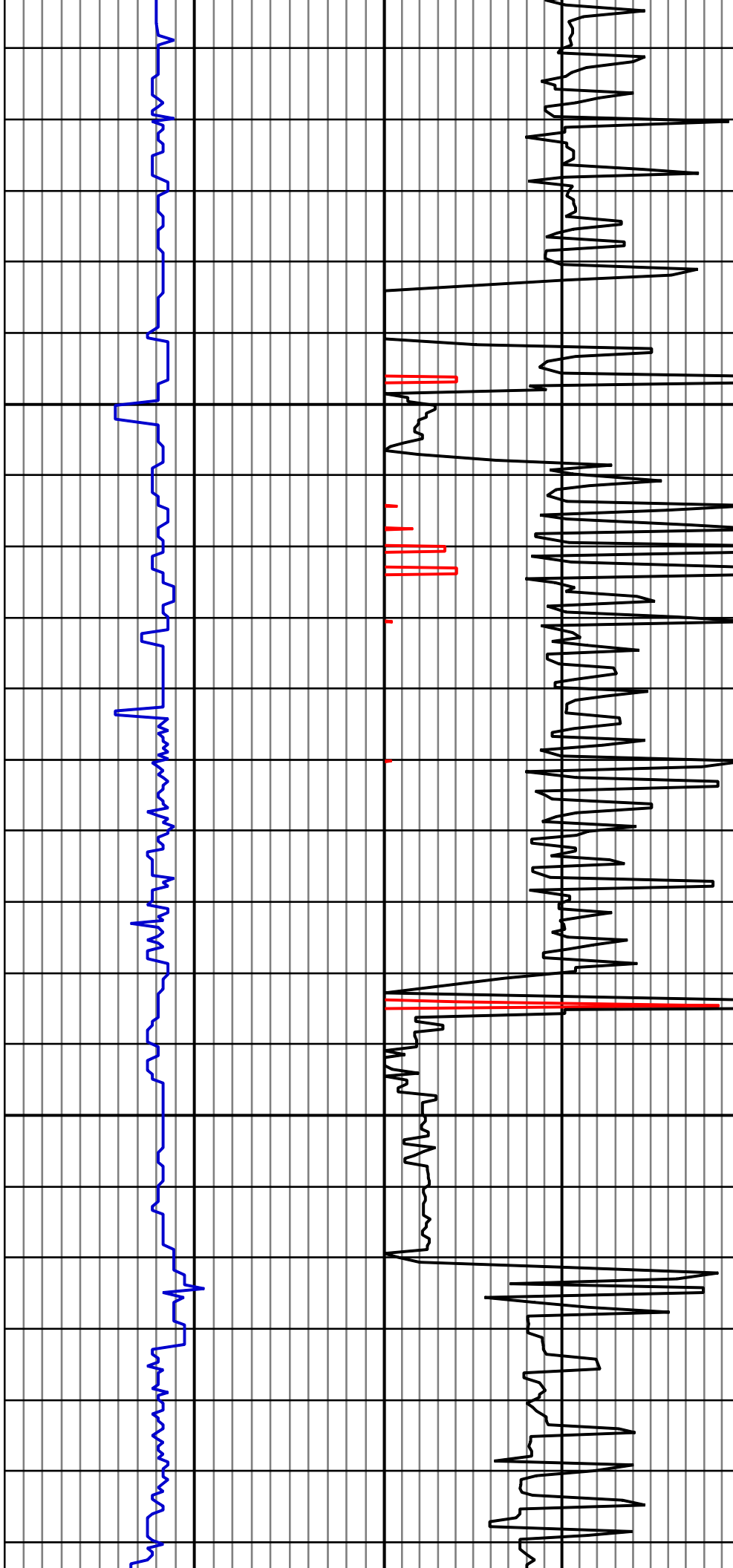
MD: 12261.00 INC: 90.40 AZ: 357.40 TVD: 5433.54 VS: 7182.00



MD: 12354.00 INC: 90.60 AZ: 356.70 TVD: 5432.73 VS: 720.68.00

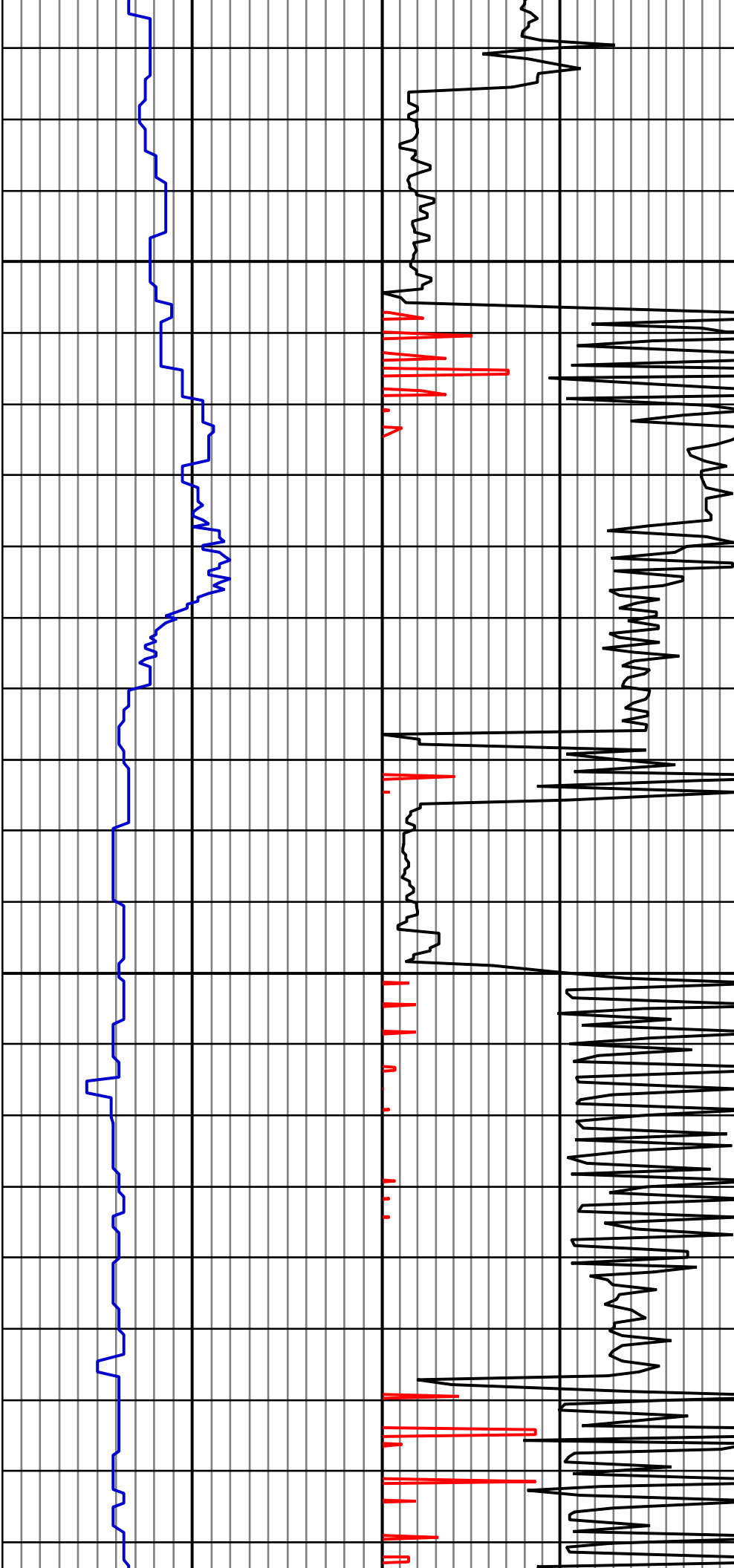
MD: 12446.00 INC: 90.30 AZ: 359.00 TVD: 5432.00 VS: 722.68.00

MD: 12538.00 INC: 90.10 AZ: 358.60 TVD: 5431.68 VS: 732.68.00



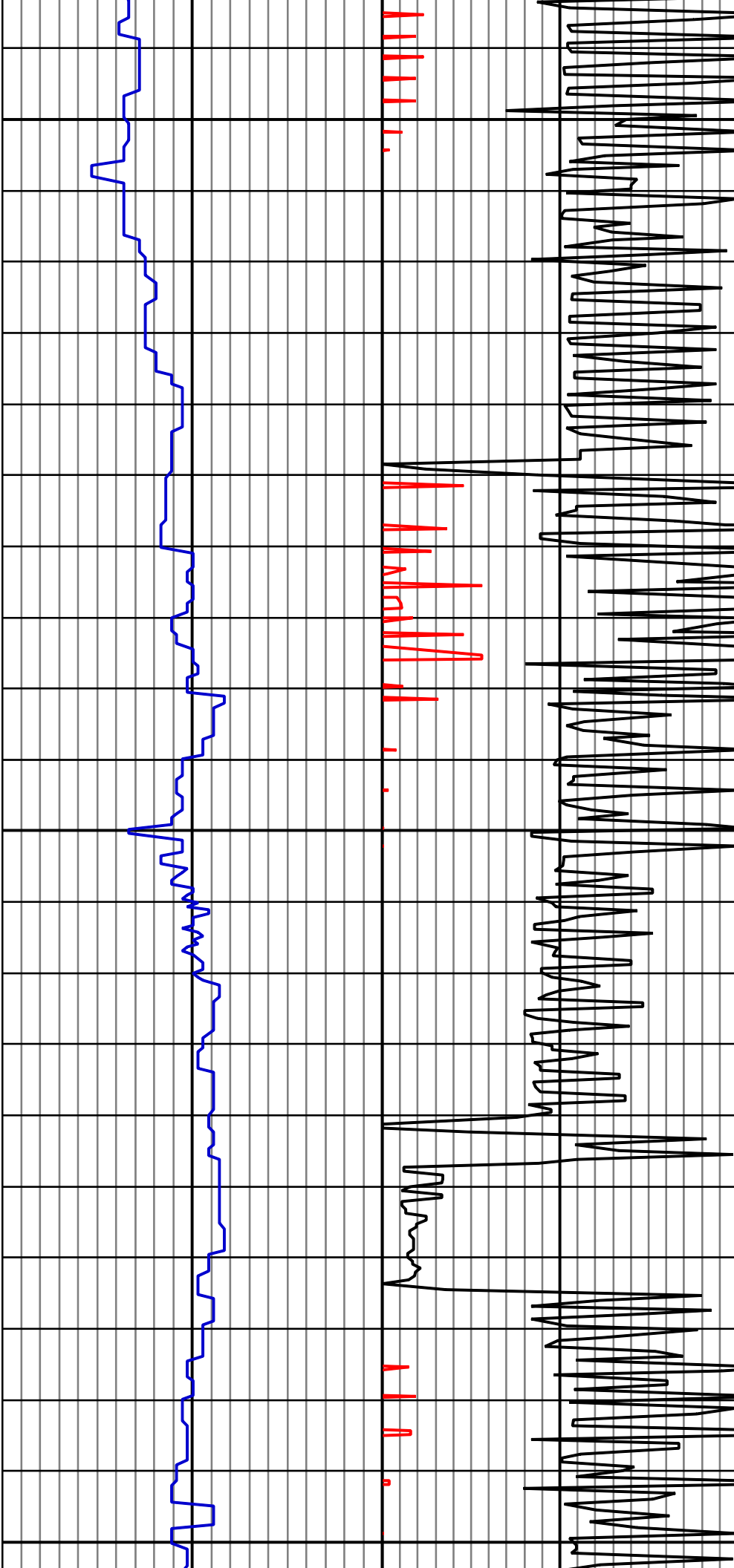
MD: 12631.00 INC: 90.00 AZ: 357.70 TVD: 5431.60 VS: 742750.00

MD: 12723.00 INC: 90.50 AZ: 359.20 TVD: 5431.20 VS: 750720.00



MD: 12813.00 INC: 91.60 AZ: 2.00 TVD: 5429.55 VS: 76592813.00

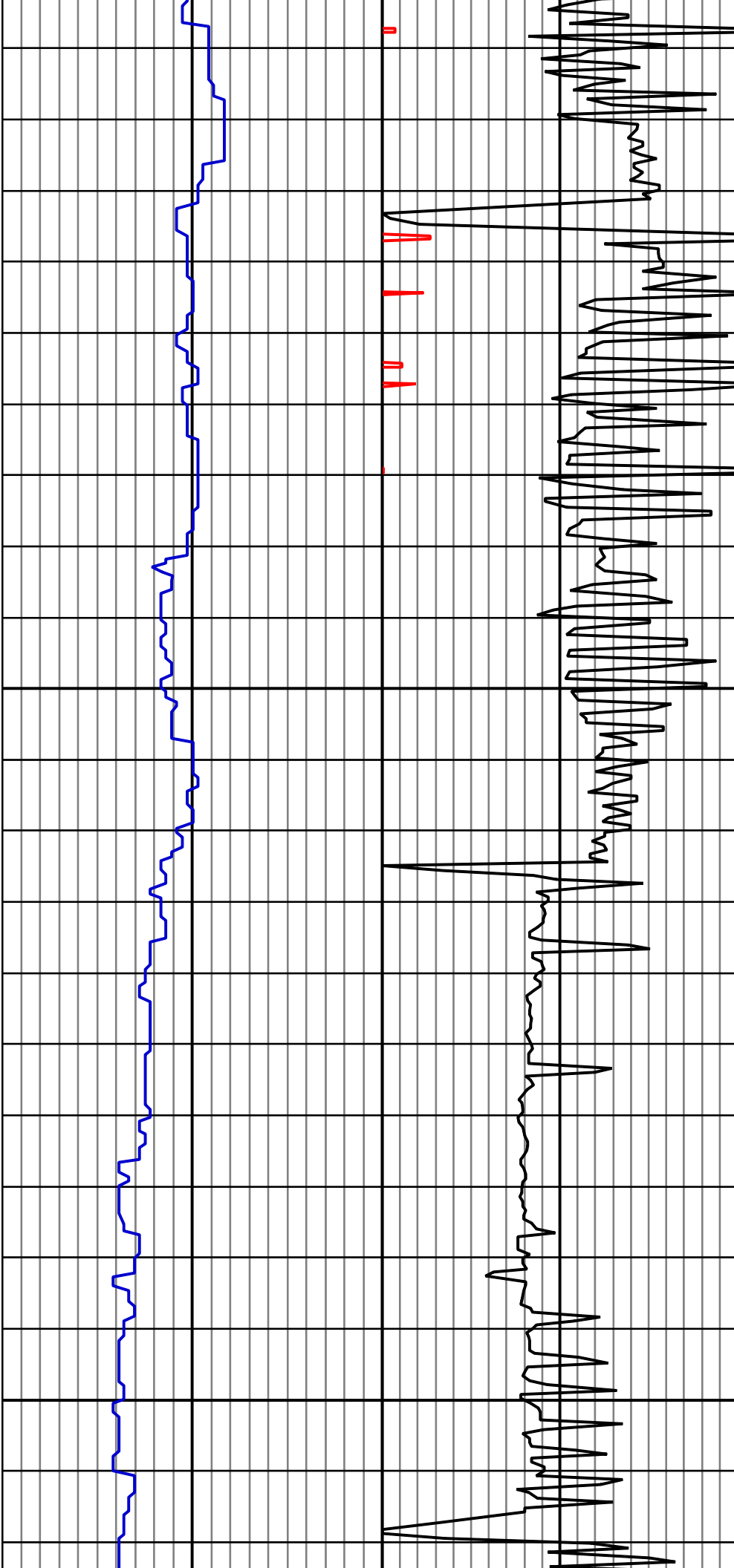
MD: 12905.00 INC: 90.10 AZ: 3.80 TVD: 5428.18 VS: 77512905.00



MD: 12997.00 INC: 90.30 AZ: 3.00 TVD: 5427.86 VS: 78432997.00

MD: 13089.00 INC: 90.60 AZ: 3.30 TVD: 5427.14 VS: 79353089.00

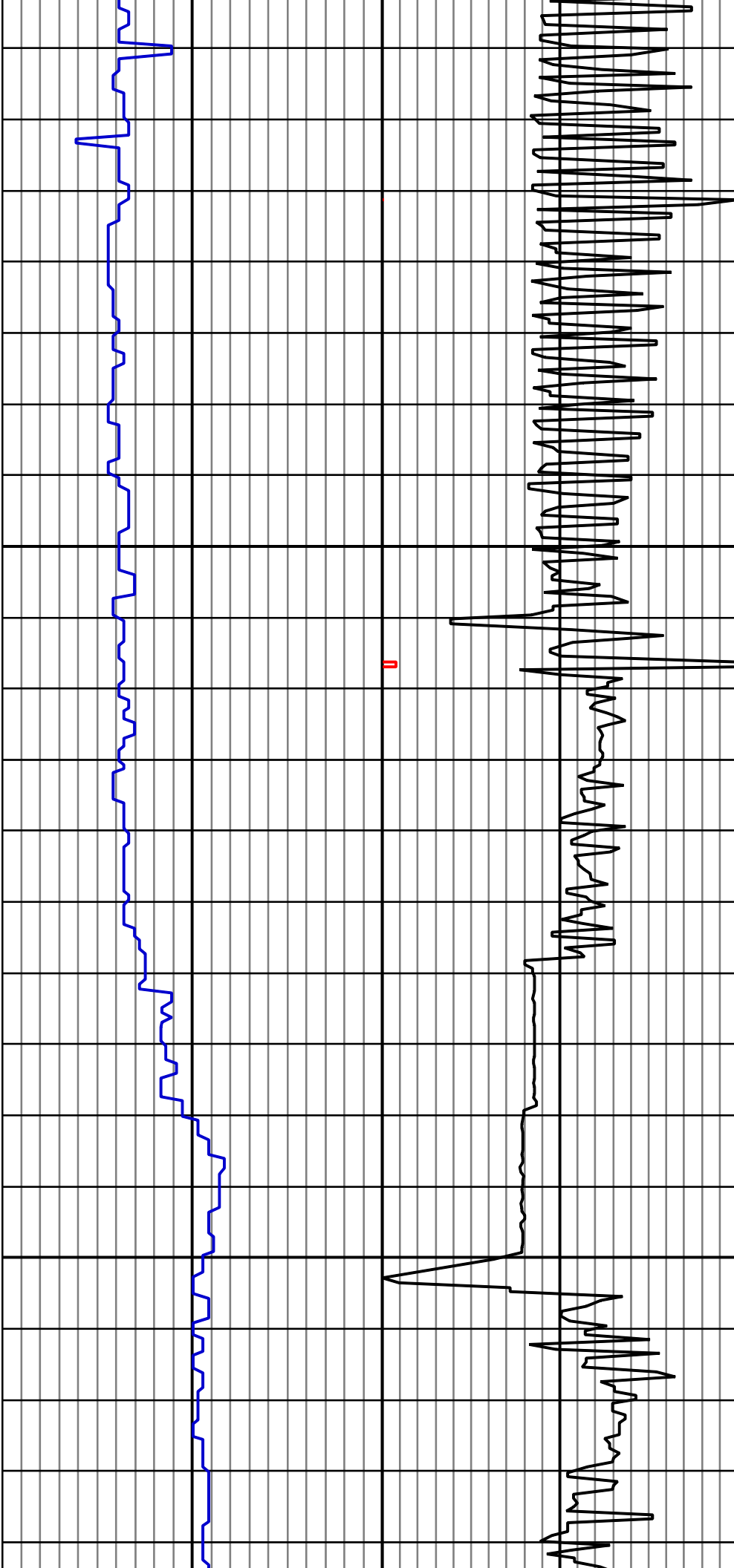
MD: 13181.00 INC: 89.40 AZ: 2.70 TVD: 5427.14 VS: 80273981.00



MD: 13274.00 INC: 89.70 AZ: 3.40 TVD: 5427.87 VS: 8120.3 13274.00

MD: 13366.00 INC: 90.00 AZ: 2.70 TVD: 5428.11 VS: 8211.3 13366.00





MD: 13458.00 INC: 90.00 AZ: 2.60 TVD: 5428.11 VS: 8303.3458.00

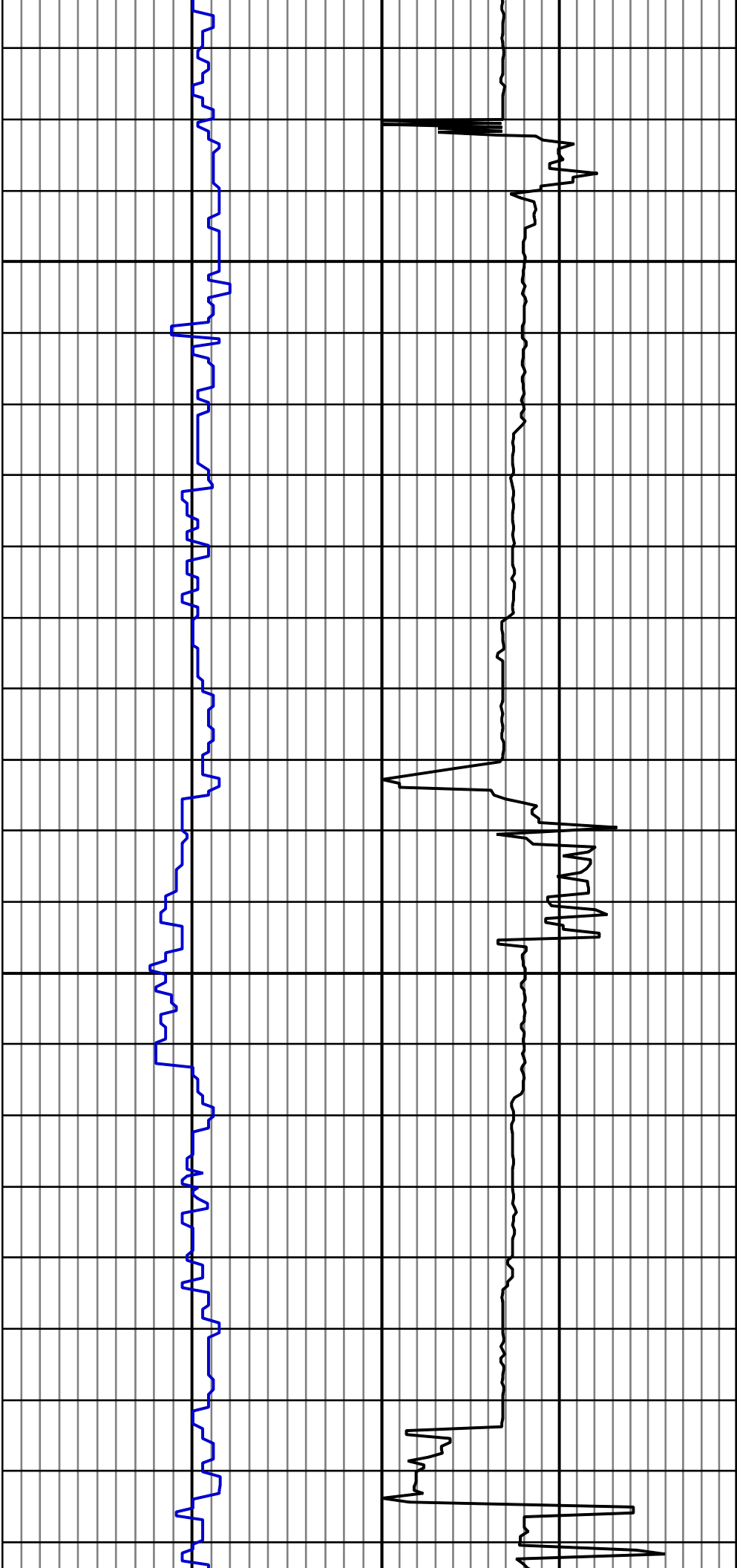
MD: 13551.00 INC: 89.80 AZ: 2.00 TVD: 5428.27 VS: 8396.3651.00

MD: 13643.00 INC: 89.80 AZ: 1.30 TVD: 5428.60 VS: 8488.3643.00

MD: 13643.00 INC: 89.80 AZ: 1.30 TVD: 5428.60 VS: 8488.30 643.00

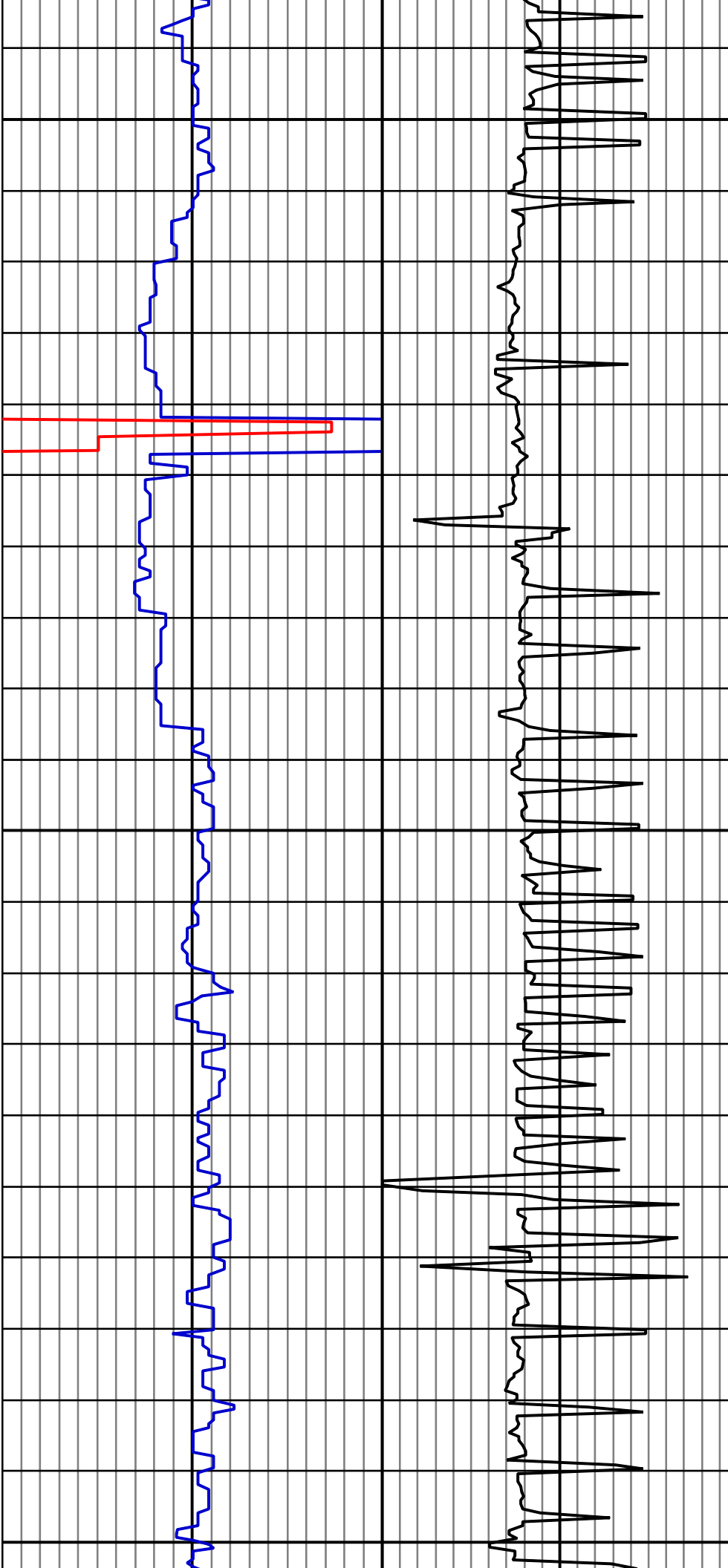
MD: 13736.00 INC: 90.30 AZ: 0.80 TVD: 5428.51 VS: 8581.30 736.00

MD: 13828.00 INC: 90.70 AZ: 1.10 TVD: 5427.71 VS: 8673.30 828.00



MD: 13921.00 INC: 90.30 AZ: 358.90 TVD: 5426.90 VS: 8789.87.00

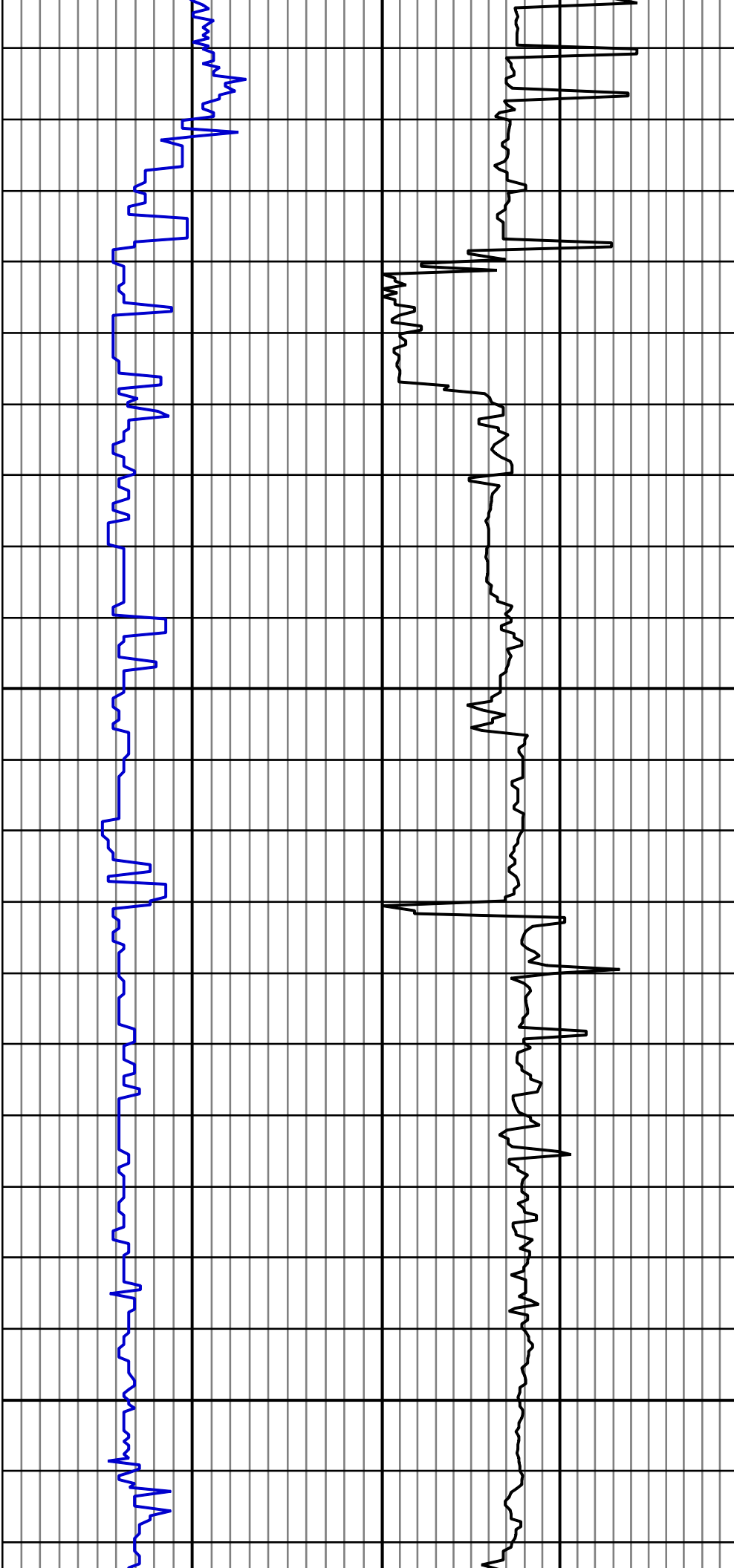
MD: 14013.00 INC: 90.80 AZ: 359.10 TVD: 5426.02 VS: 8850.83.00



MD: 14105.00 INC: 90.00 AZ: 358.70 TVD: 5425.37 VS: 8940105.00

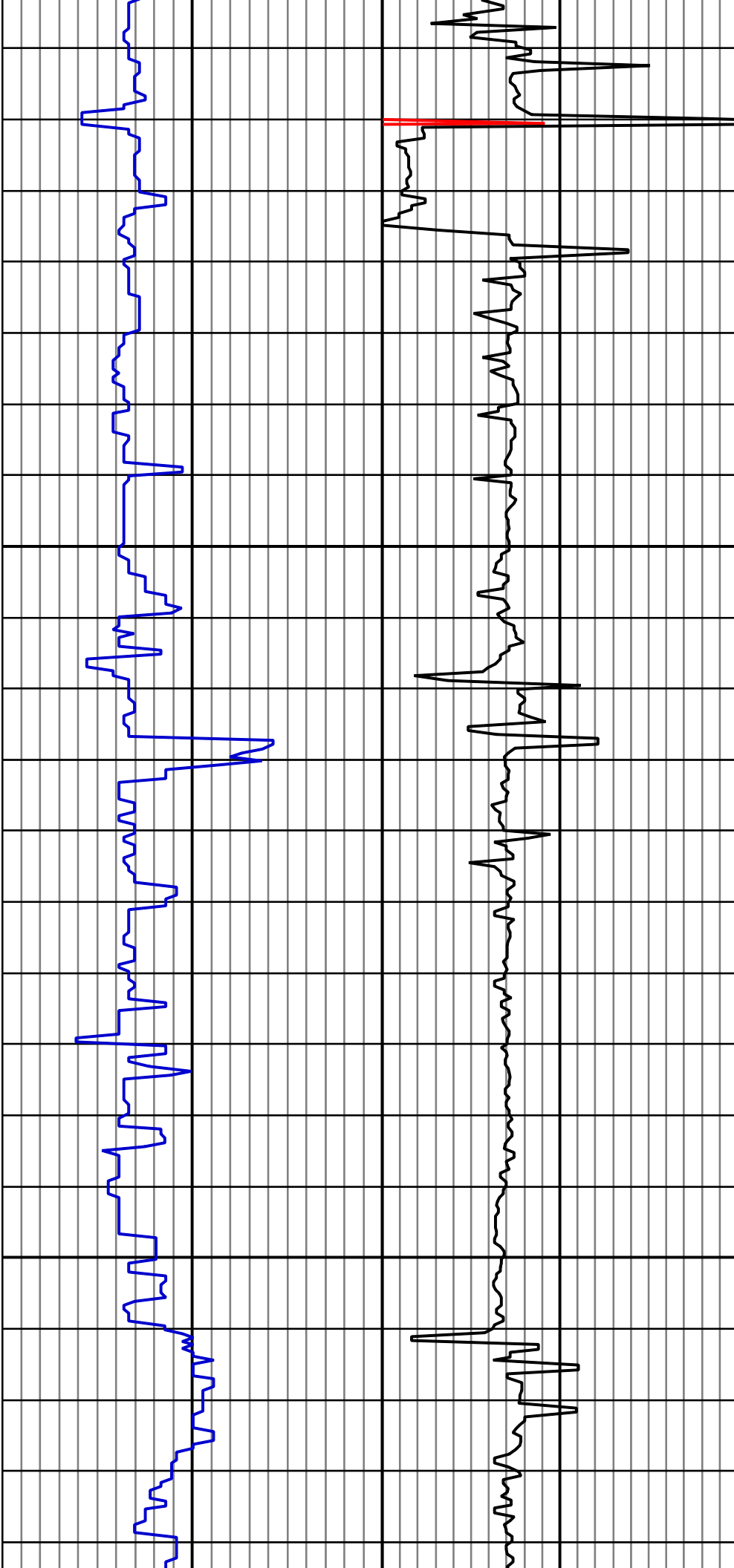
MD: 14197.00 INC: 89.80 AZ: 357.90 TVD: 5425.54 VS: 9042105.00

MD: 14289.00 INC: 91.50 AZ: 359.10 TVD: 5424.49 VS: 914289.00



MD: 14381.00 INC: 89.90 AZ: 359.00 TVD: 5423.37 VS: 9226.69

MD: 14473.00 INC: 90.30 AZ: 358.50 TVD: 5423.21 VS: 9348.73



MD: 14566.00 INC: 89.70 AZ: 359.20 TVD: 5423.21 VS: 944.566.00

MD: 14659.00 INC: 89.60 AZ: 359.30 TVD: 5423.77 VS: 950.659.00

MD: 14751.00 INC: 89.60 AZ: 358.30 TVD: 5424.42 VS: 9507.84.00

MD: 14844.00 INC: 89.80 AZ: 358.10 TVD: 5424.90 VS: 9508.43.00

0.00 GR(API) 150.00 0.00 ROP(FT/HR) 300.00

Surveys (MD/INC/AZ/TVD/VS)