

# PRO DIRECTIONAL

## 5 Inch MD Gamma Ray Log (Scale: 5":100' (10'))

Company: Tapstone Energy  
 Well: Leann 21-34-9 #2H  
 Field: Mississippi Lime  
 Well ID: 15-077-22158-01-00  
 Job Number: LKS6119615

State: KS  
 County: Harper  
 Country: USA

Elev KB: 22' + 1,278' = 1,300'  
 Elev DF: 22'  
 Elev GL: 1,278'

Operator 1: J. Treille

Operator 2: S. Winkels

Comment 1: LAT: 37° 3' 57.71 N

Comment 2: LONG: 98° 18' 33.44 W

Comment 3: Y: 145473.20 / X: 2055649.80

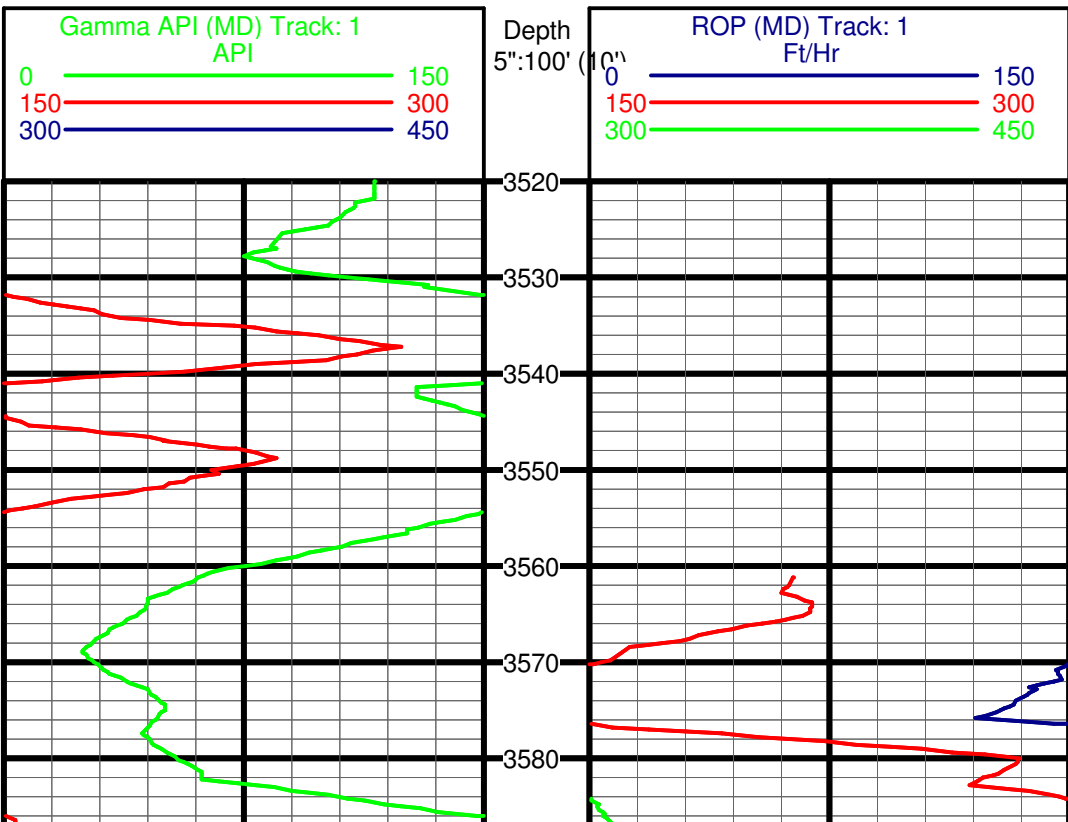
Comment 4: Mud Density (lb/bbl): 8.5 / Funnel Viscosity (sec/qt): 27

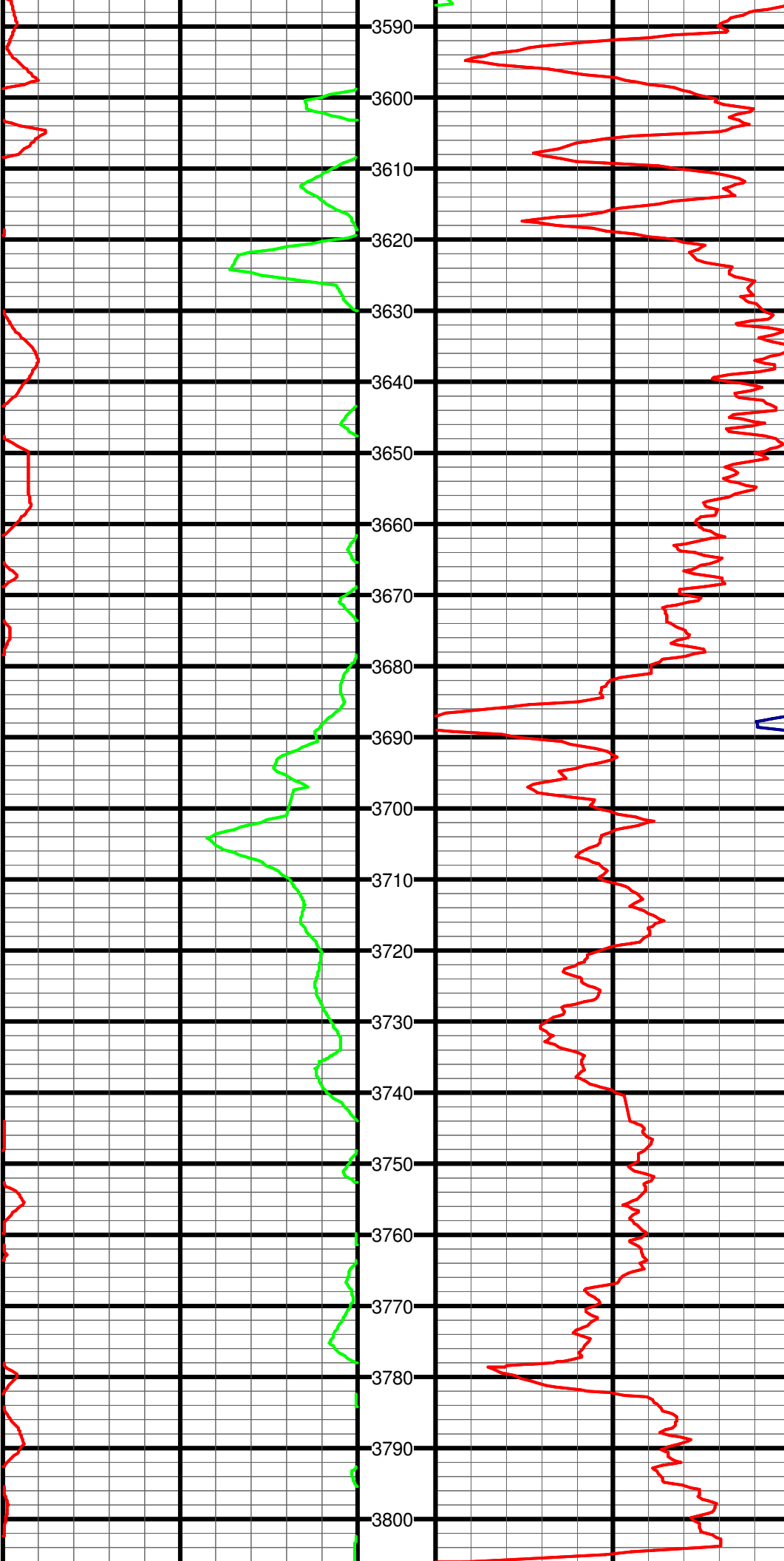
Comment 5: Max Temp (DegF): 156° (NAD 1927) Gamma Ray in Reference to Elev KB (Kansas South 1502)

Hole Data		Casing Record			
Size	From	To	Size	From	To
12 1/4"	0'	838'	9 5/8"	0'	838'
8 3/4"	838'	5,156'	7"	838'	5,154'
6 1/8"	5,156'	9,005'			

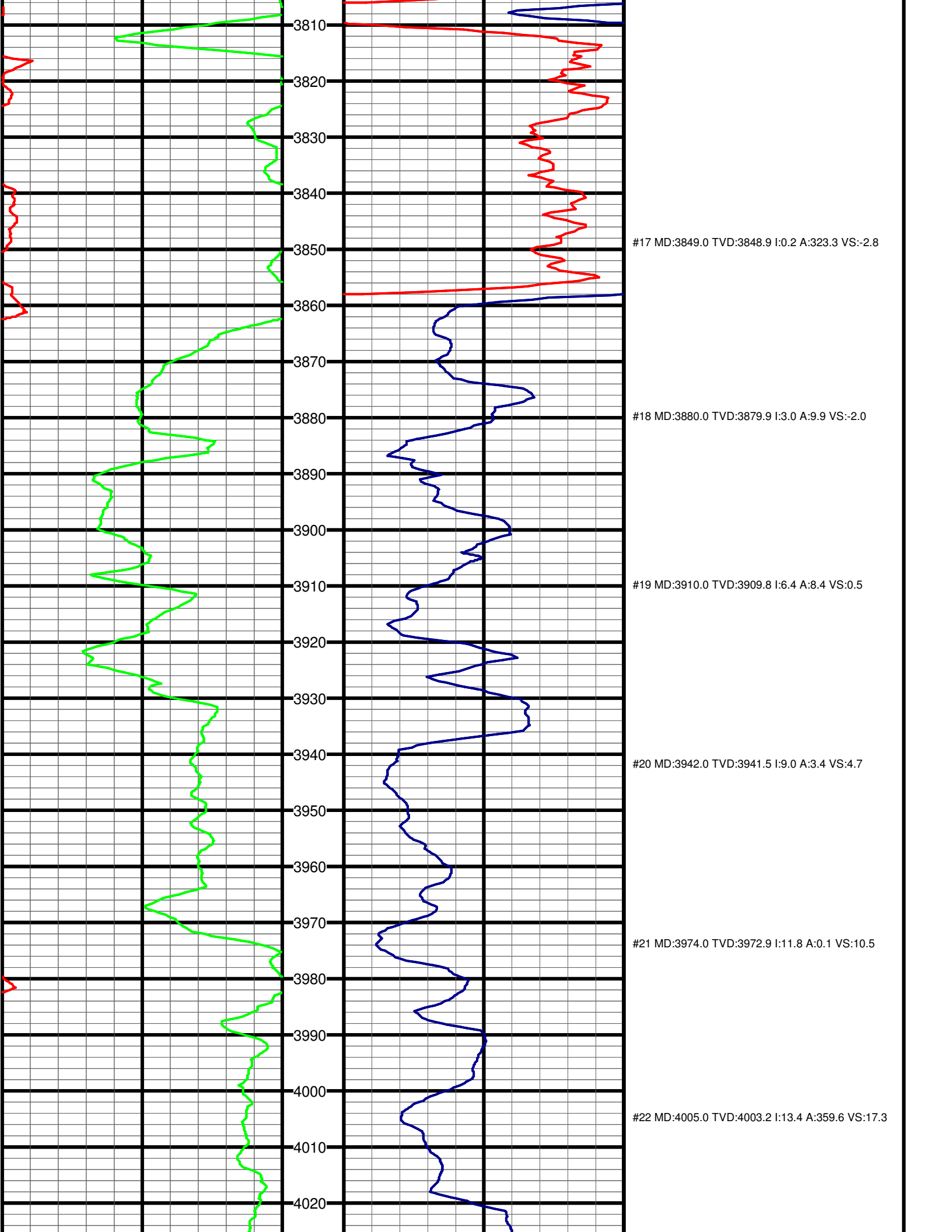
Tool Run Data		Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	3008	3041	3013			
Cal Factor	4.96	2.86	2.86			
Gamma Offset	43'	40'	41'			
Start Depth	3,520'	5,114'	8,194'			
Start Date	10/24/2015	10/27/2015	11/01/2015			
Start Time	06:53	21:00	18:45			
End Depth	5,113'	8,194'	8,964'			
End Date	10/26/2015	11/01/2015	11/02/2015			
End Time	18:15	07:57	19:00			

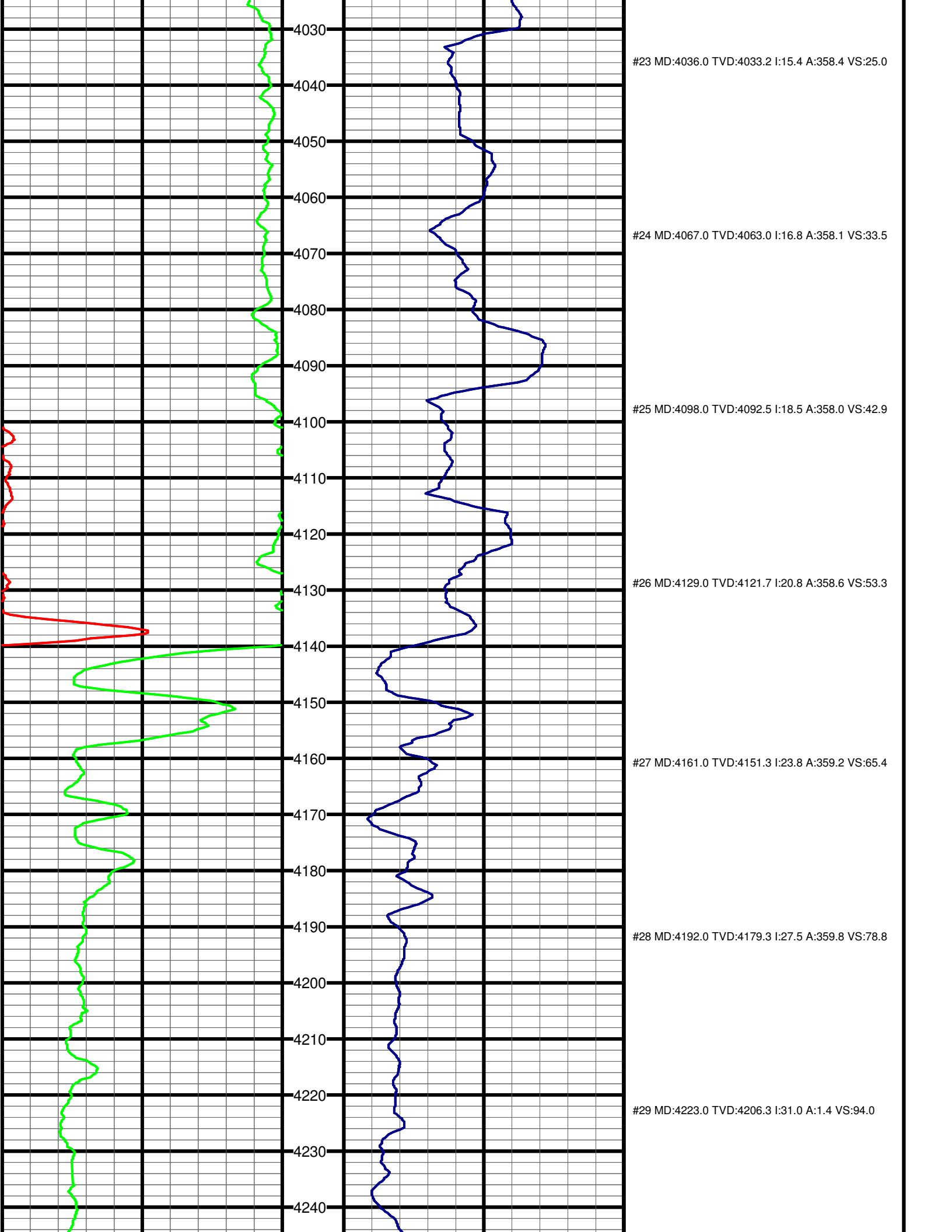
#15 MD:3535.0 TVD:3534.9 I:0.2 A:262.4 VS:-4.3





#16 MD:3723.0 TVD:3722.9 I:0.5 A:2.1 VS:-3.5





#23 MD:4036.0 TVD:4033.2 I:15.4 A:358.4 VS:25.0

#24 MD:4067.0 TVD:4063.0 I:16.8 A:358.1 VS:33.5

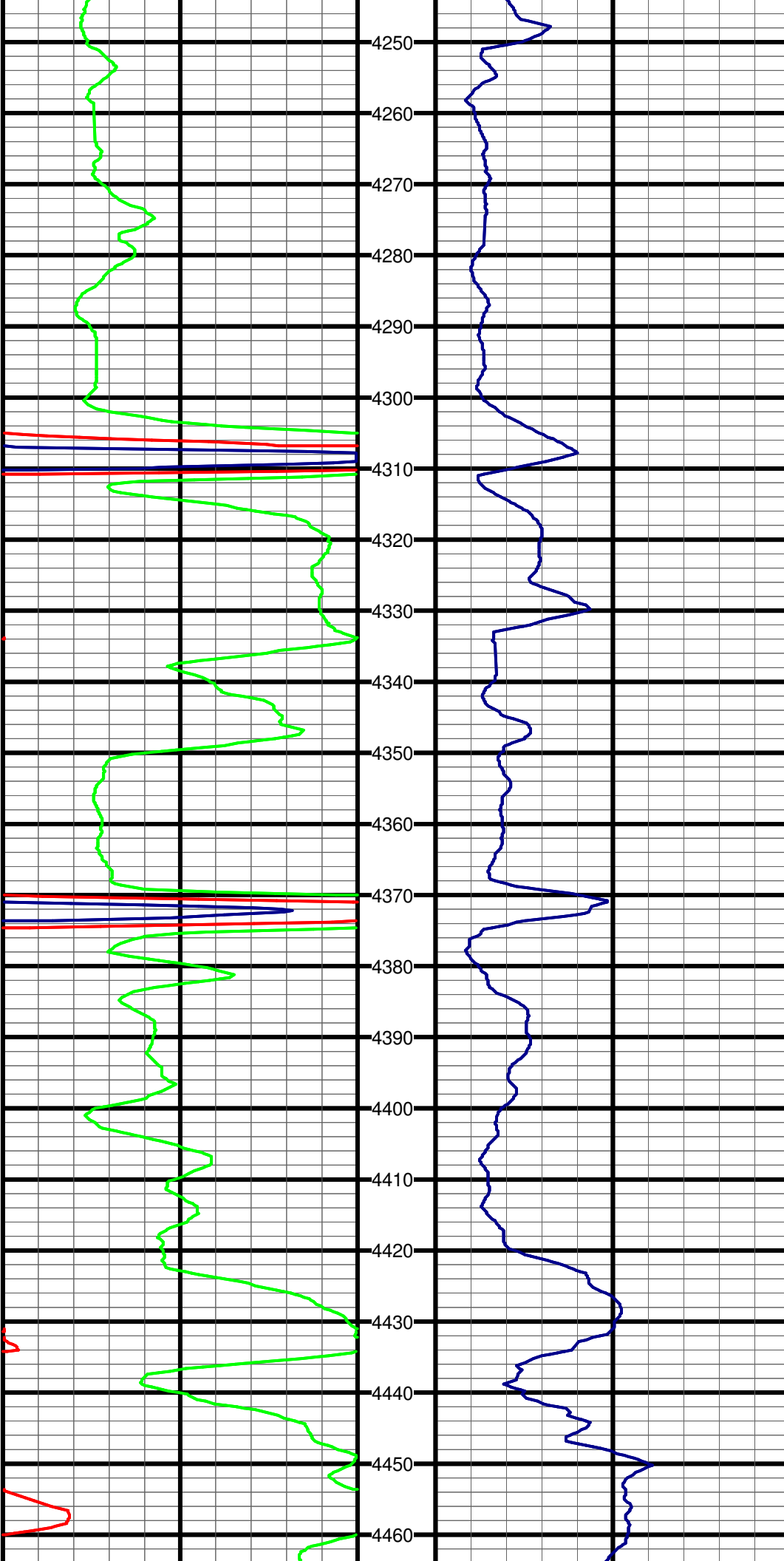
#25 MD:4098.0 TVD:4092.5 I:18.5 A:358.0 VS:42.9

#26 MD:4129.0 TVD:4121.7 I:20.8 A:358.6 VS:53.3

#27 MD:4161.0 TVD:4151.3 I:23.8 A:359.2 VS:65.4

#28 MD:4192.0 TVD:4179.3 I:27.5 A:359.8 VS:78.8

#29 MD:4223.0 TVD:4206.3 I:31.0 A:1.4 VS:94.0



#30 MD:4254.0 TVD:4232.5 I:34.0 A:1.6 VS:110.6

#31 MD:4285.0 TVD:4257.7 I:36.9 A:1.0 VS:128.6

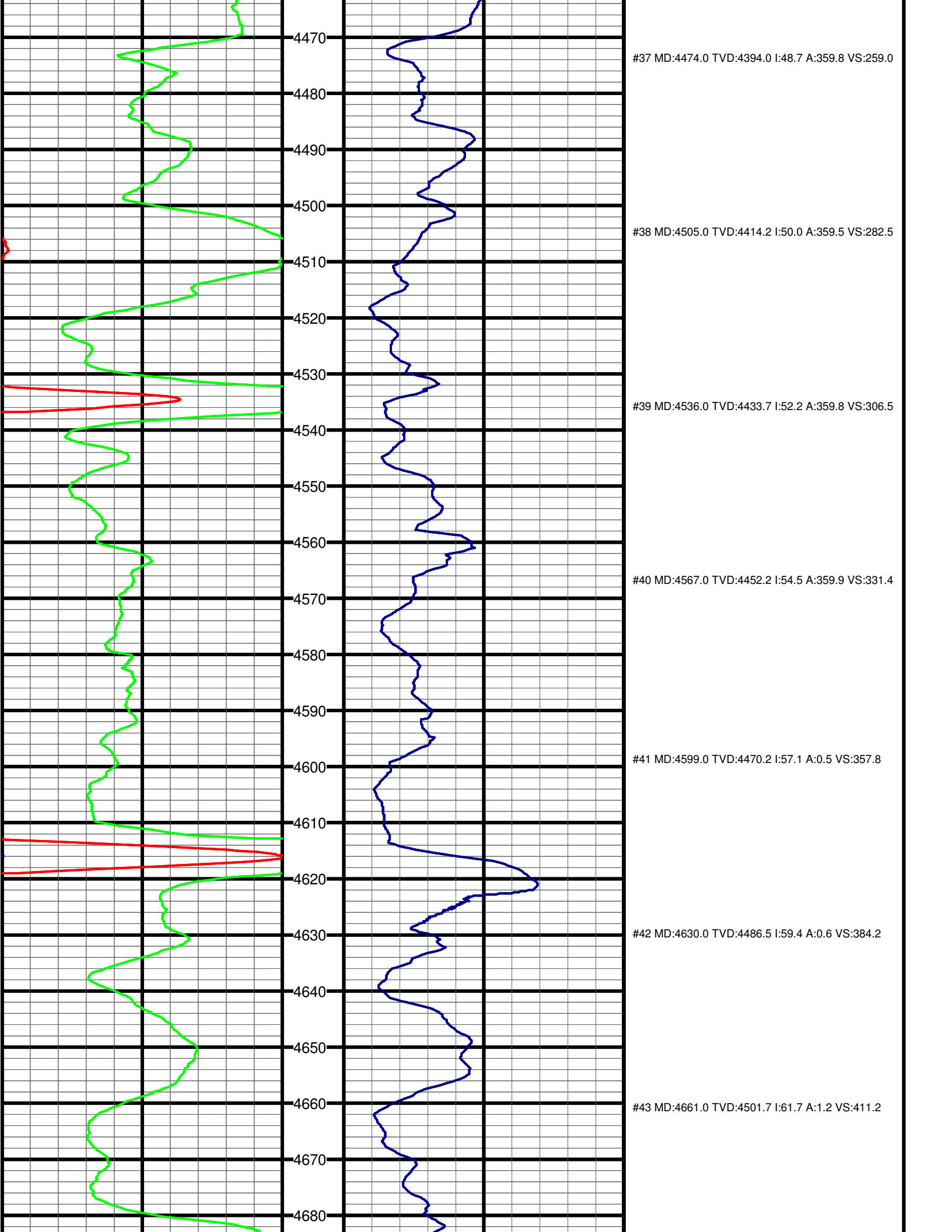
#32 MD:4317.0 TVD:4282.8 I:40.0 A:359.7 VS:148.5

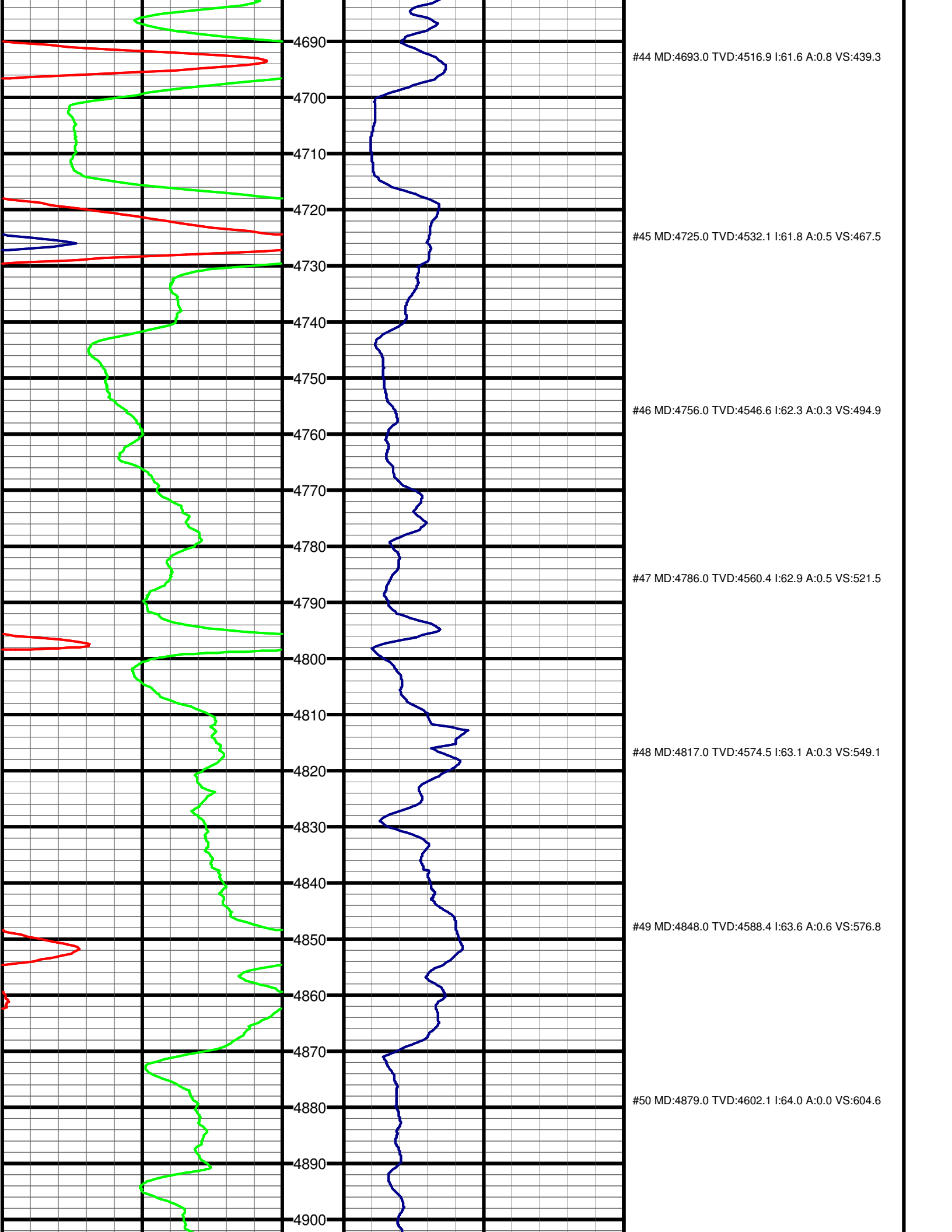
#33 MD:4348.0 TVD:4306.1 I:42.5 A:359.5 VS:168.9

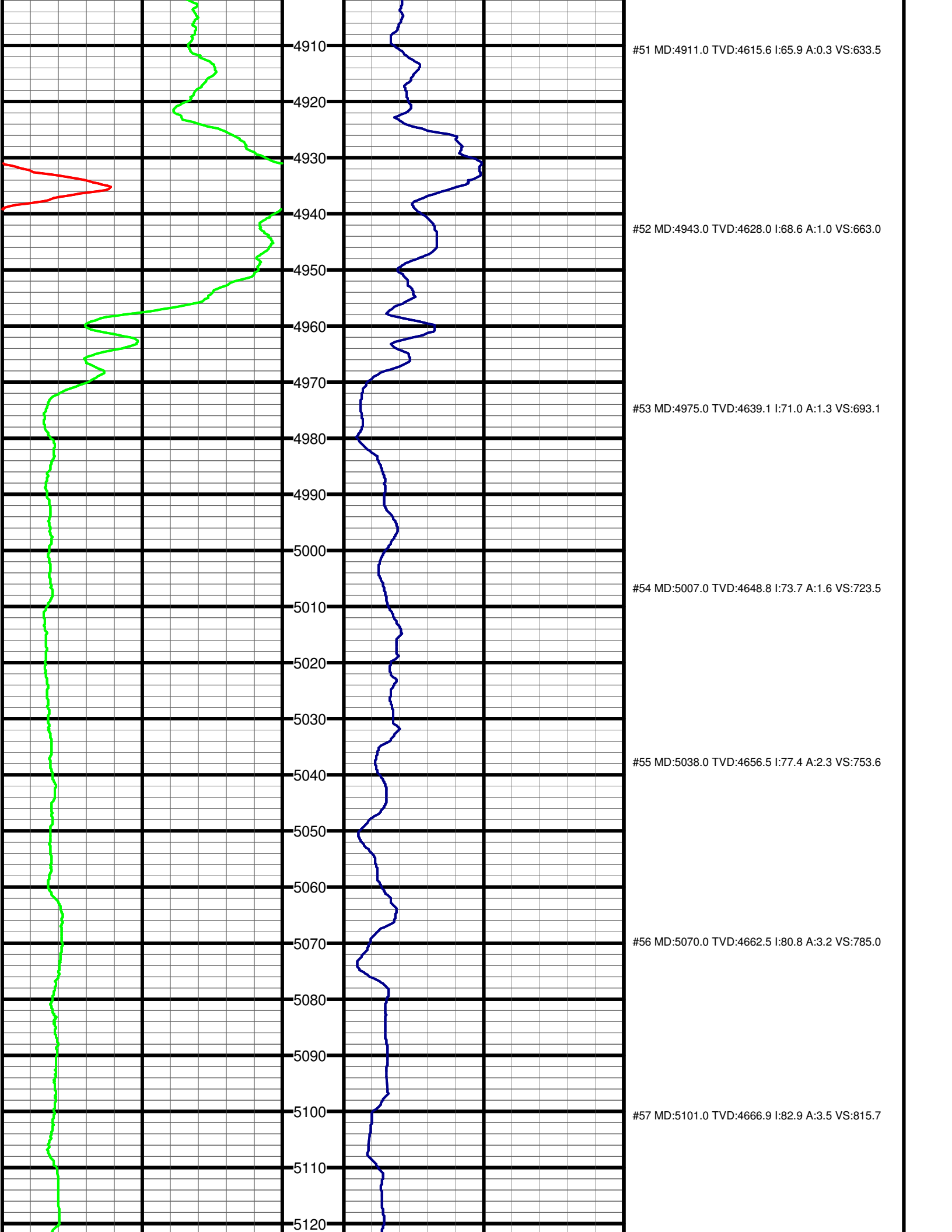
#34 MD:4380.0 TVD:4329.4 I:44.0 A:359.8 VS:190.8

#35 MD:4412.0 TVD:4352.0 I:46.1 A:0.3 VS:213.4

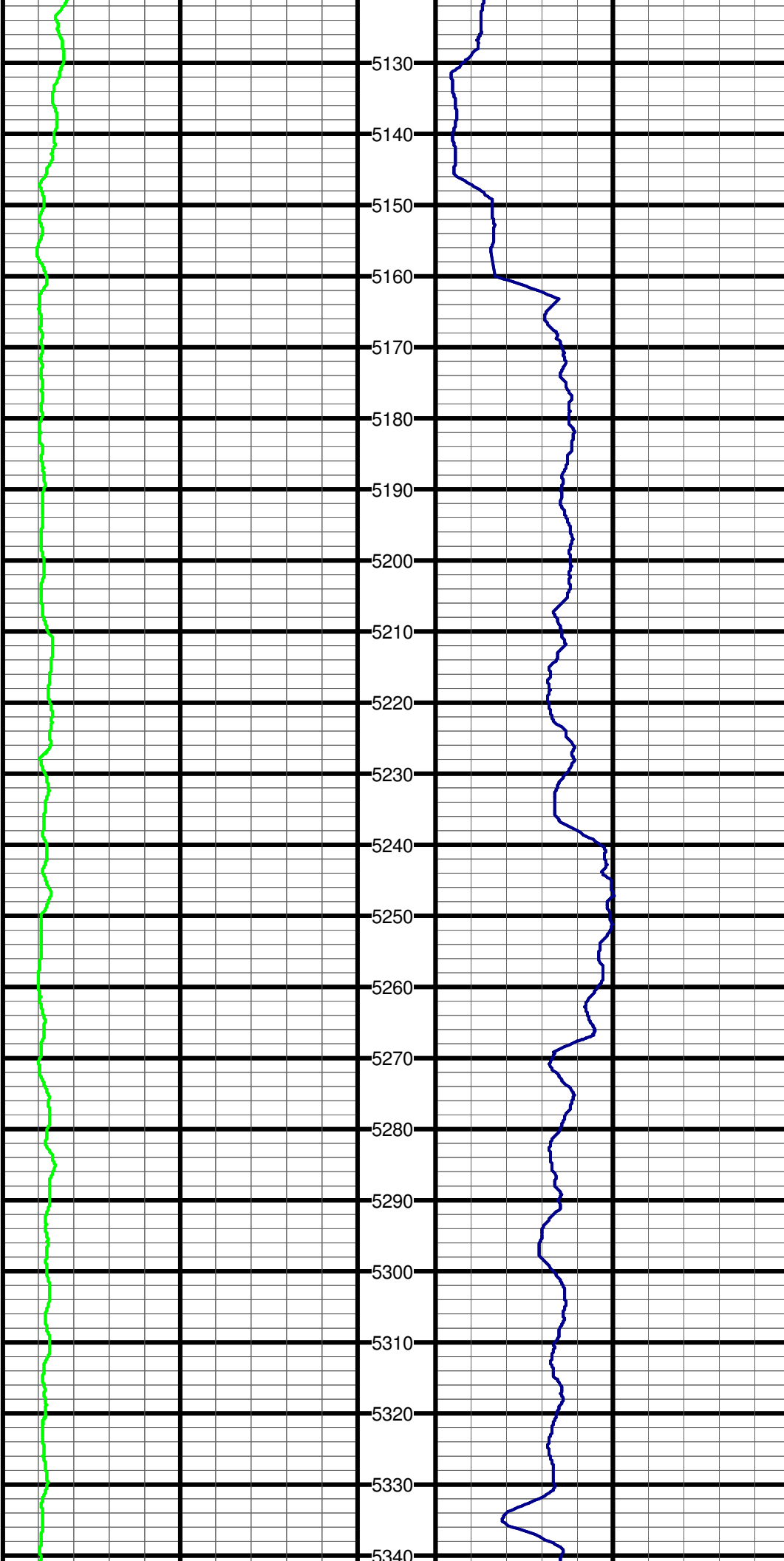
#36 MD:4444.0 TVD:4373.9 I:47.3 A:0.0 VS:236.7











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#58 MD:5182.0 TVD:4673.3 I:88.1 A:3.8 VS:896.4

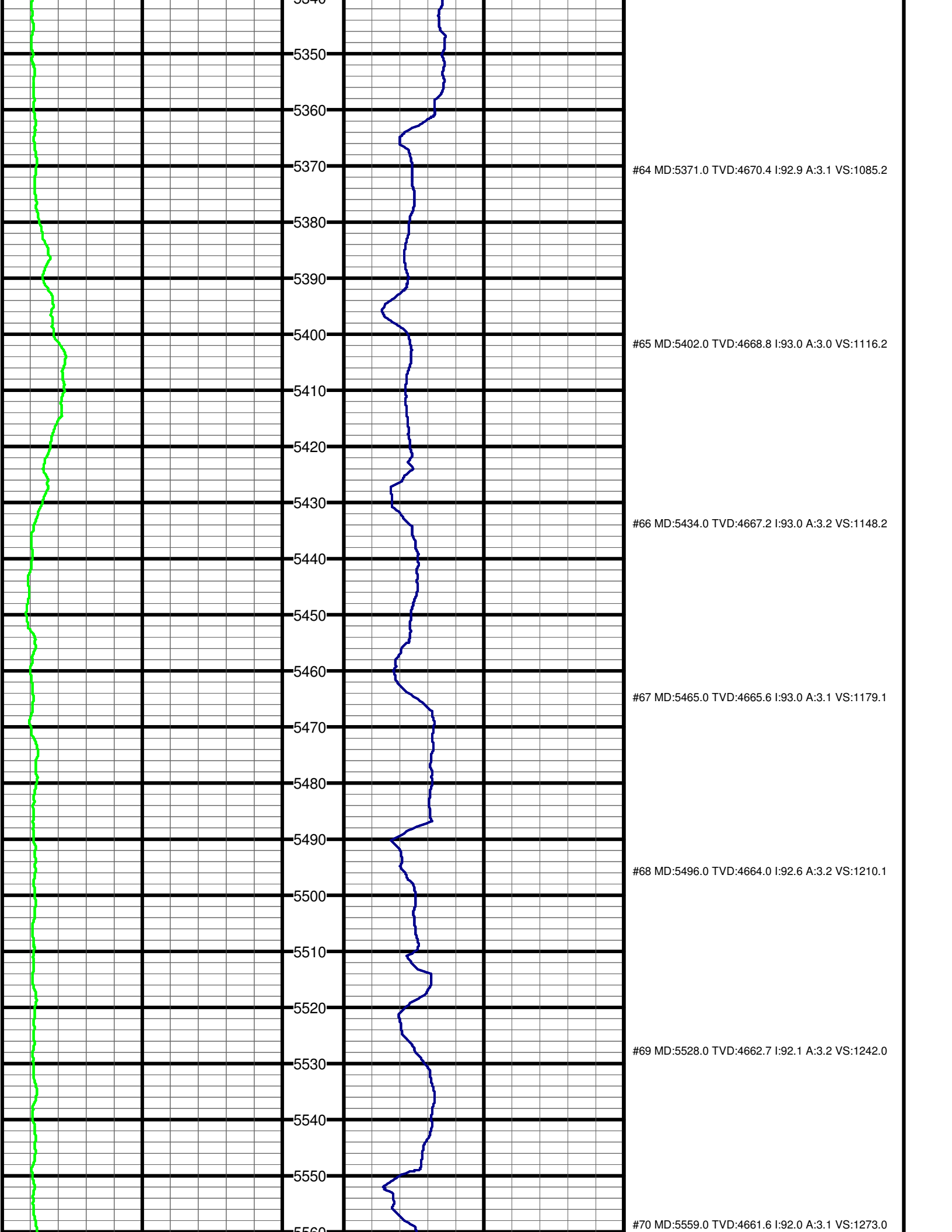
#59 MD:5214.0 TVD:4674.1 I:89.0 A:3.6 VS:928.3

#60 MD:5245.0 TVD:4674.3 I:90.1 A:3.2 VS:959.3

#61 MD:5277.0 TVD:4674.0 I:91.0 A:2.8 VS:991.3

#62 MD:5308.0 TVD:4673.2 I:92.2 A:2.7 VS:1022.3

#63 MD:5339.0 TVD:4671.9 I:92.4 A:2.8 VS:1053.3



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#64 MD:5371.0 TVD:4670.4 I:92.9 A:3.1 VS:1085.2

#65 MD:5402.0 TVD:4668.8 I:93.0 A:3.0 VS:1116.2

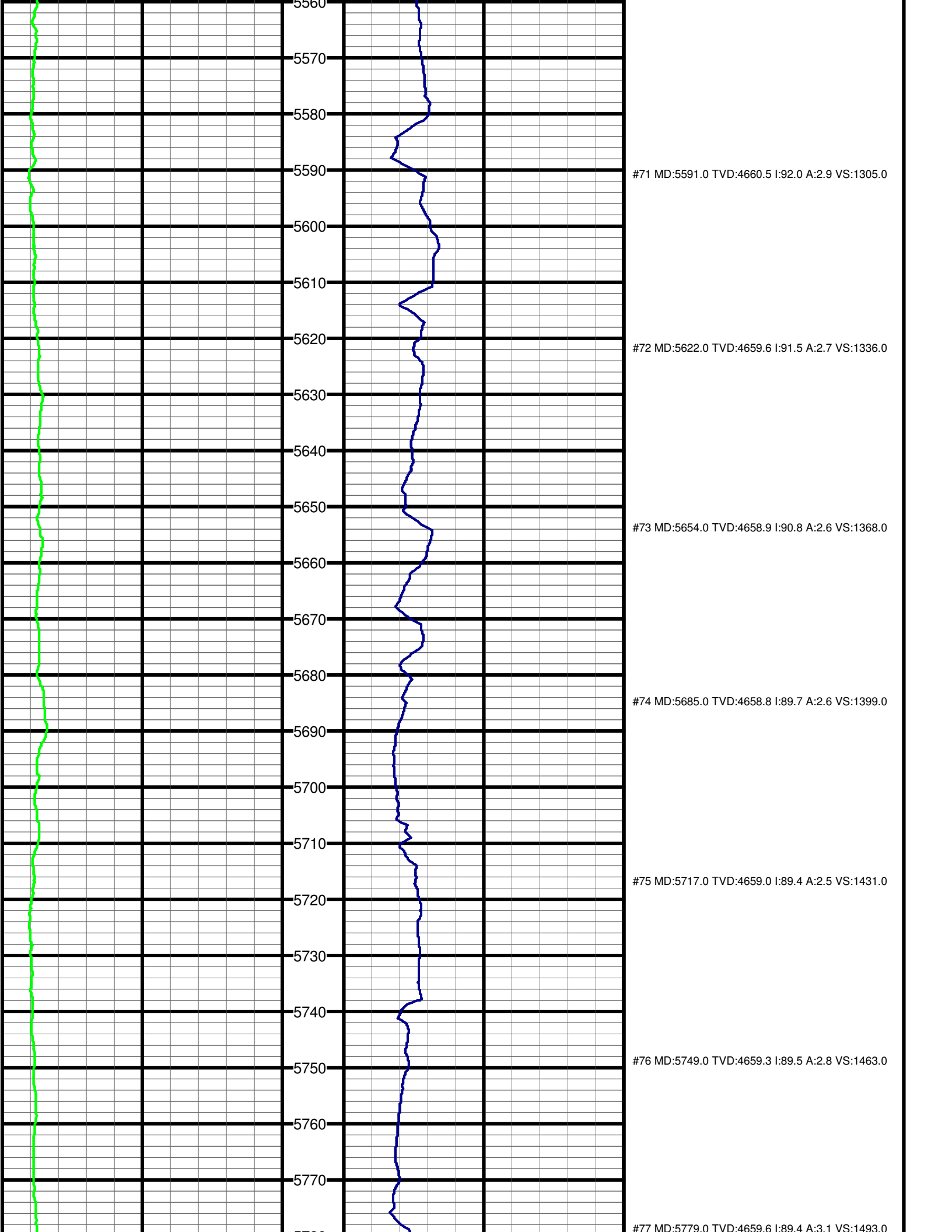
#66 MD:5434.0 TVD:4667.2 I:93.0 A:3.2 VS:1148.2

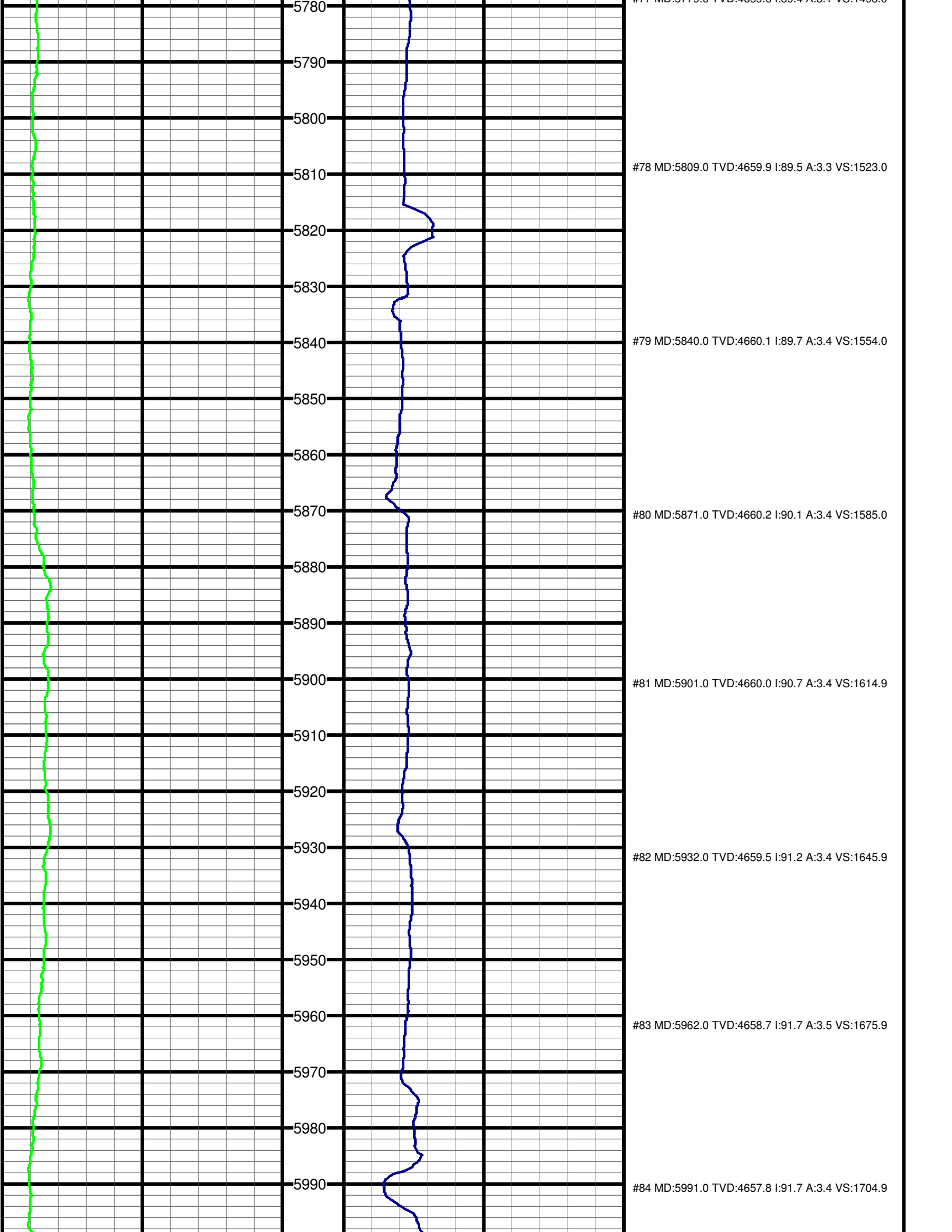
#67 MD:5465.0 TVD:4665.6 I:93.0 A:3.1 VS:1179.1

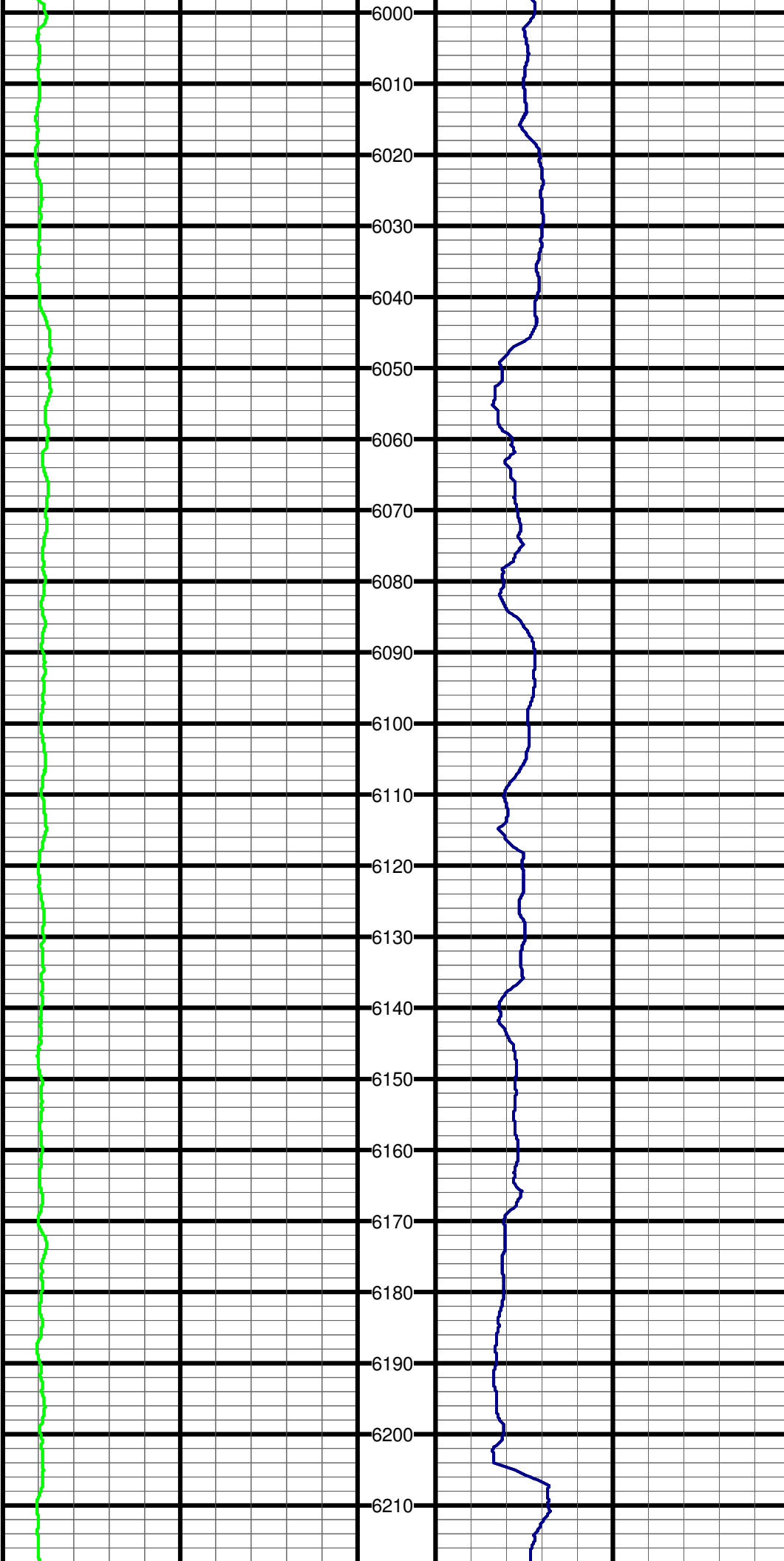
#68 MD:5496.0 TVD:4664.0 I:92.6 A:3.2 VS:1210.1

#69 MD:5528.0 TVD:4662.7 I:92.1 A:3.2 VS:1242.0

#70 MD:5559.0 TVD:4661.6 I:92.0 A:3.1 VS:1273.0







#85 MD:6022.0 TVD:4656.8 I:92.2 A:3.8 VS:1735.9

#86 MD:6052.0 TVD:4655.6 I:92.3 A:3.4 VS:1765.8

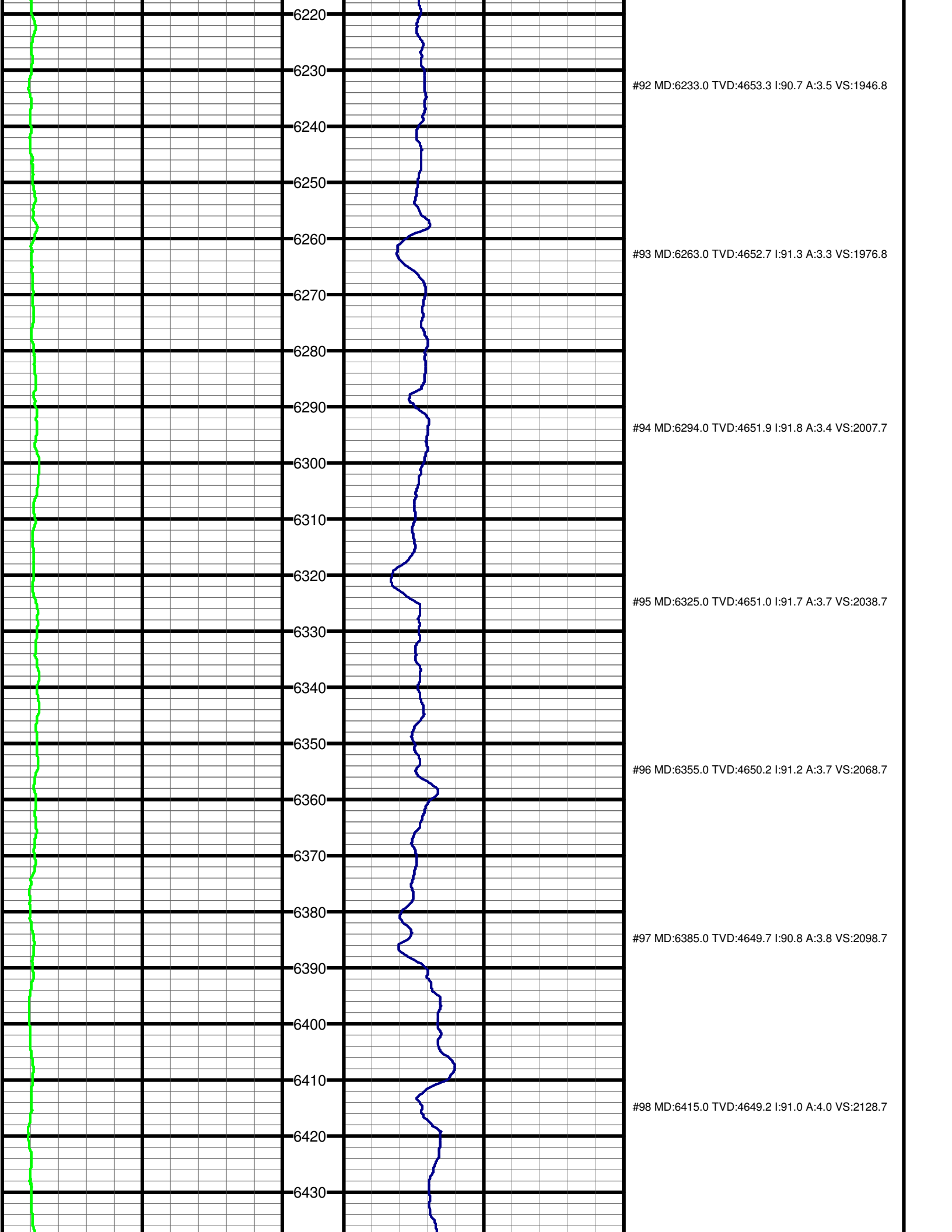
#87 MD:6083.0 TVD:4654.5 I:91.7 A:3.4 VS:1796.8

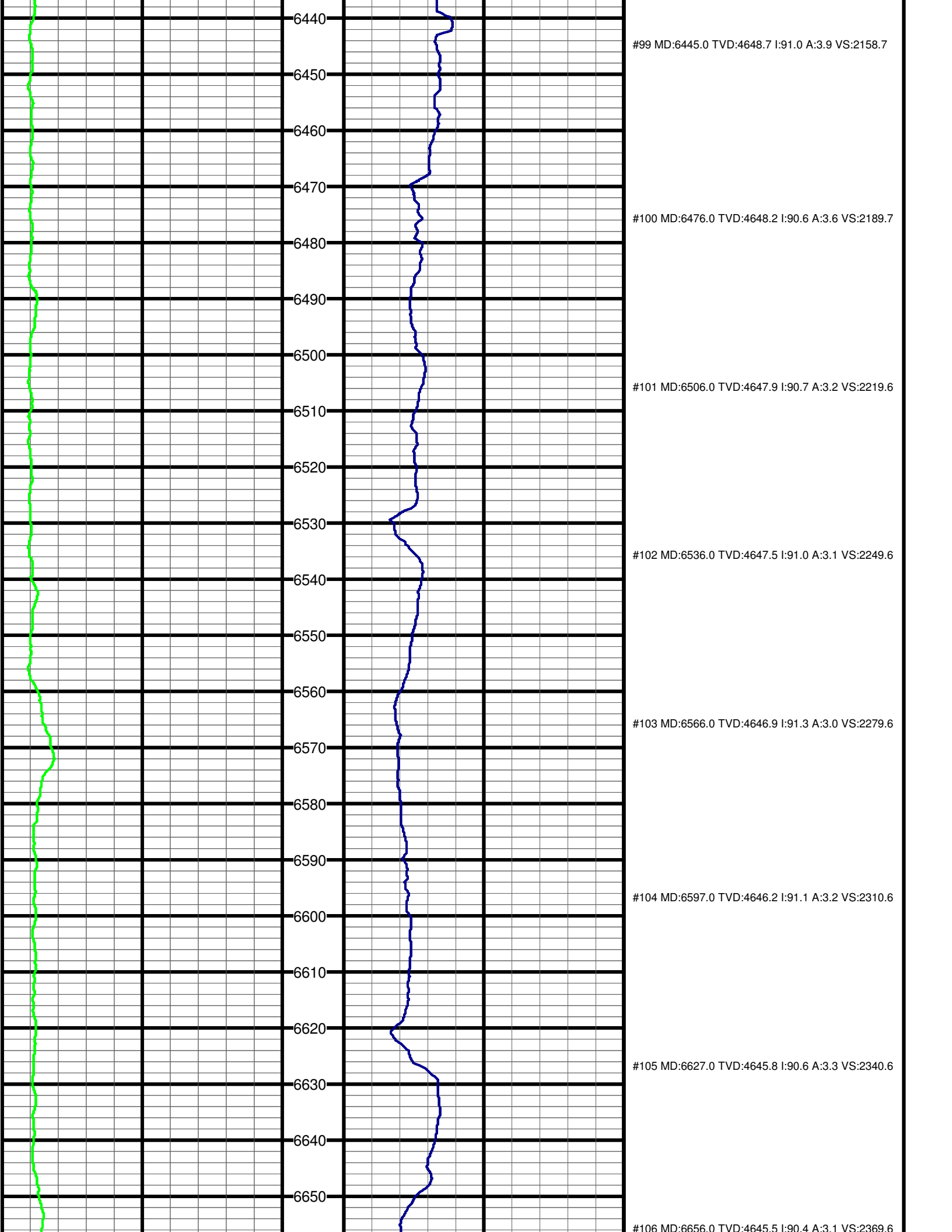
#88 MD:6113.0 TVD:4653.9 I:90.7 A:3.8 VS:1826.8

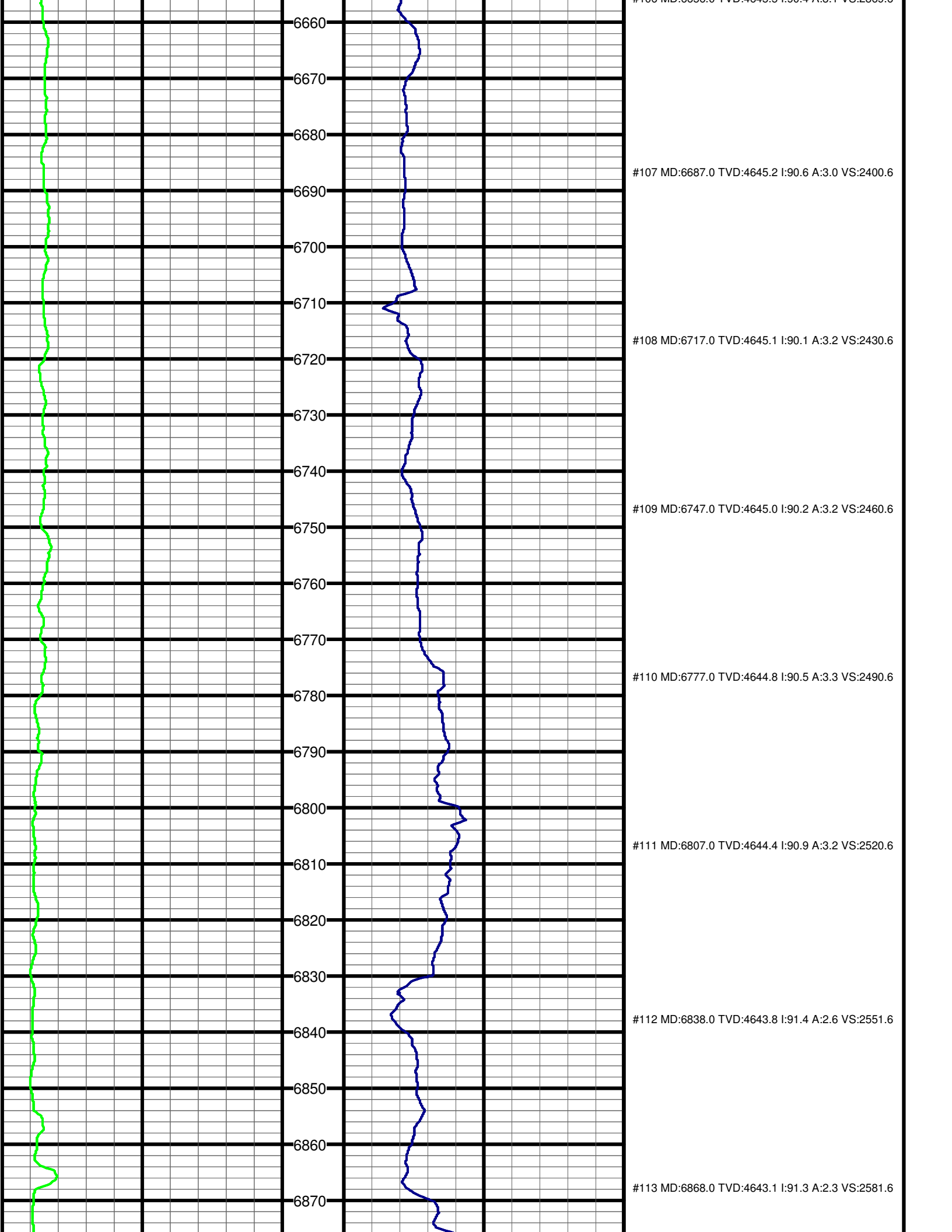
#89 MD:6143.0 TVD:4653.7 I:90.1 A:3.7 VS:1856.8

#90 MD:6173.0 TVD:4653.6 I:90.2 A:3.8 VS:1886.8

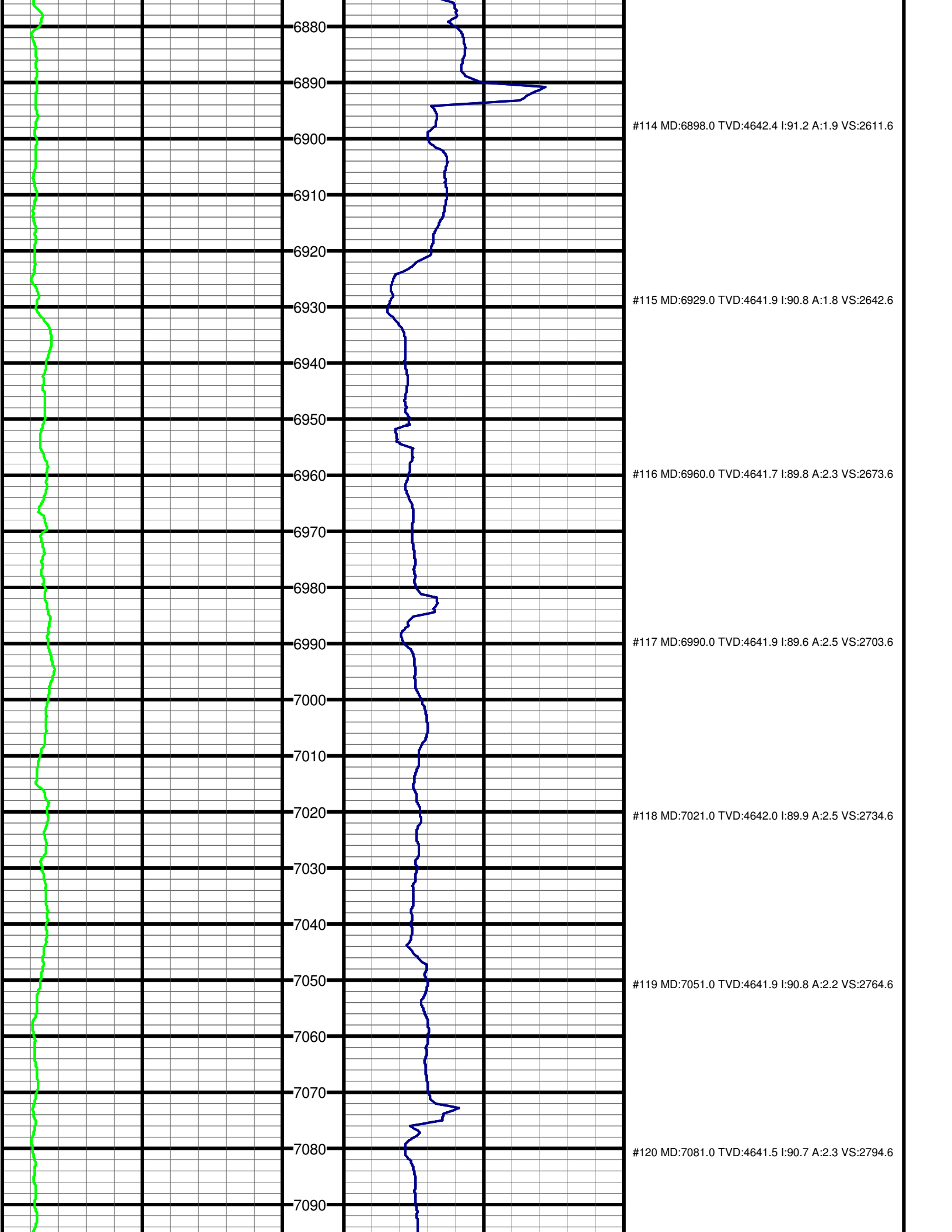
#91 MD:6203.0 TVD:4653.5 I:90.2 A:3.4 VS:1916.8

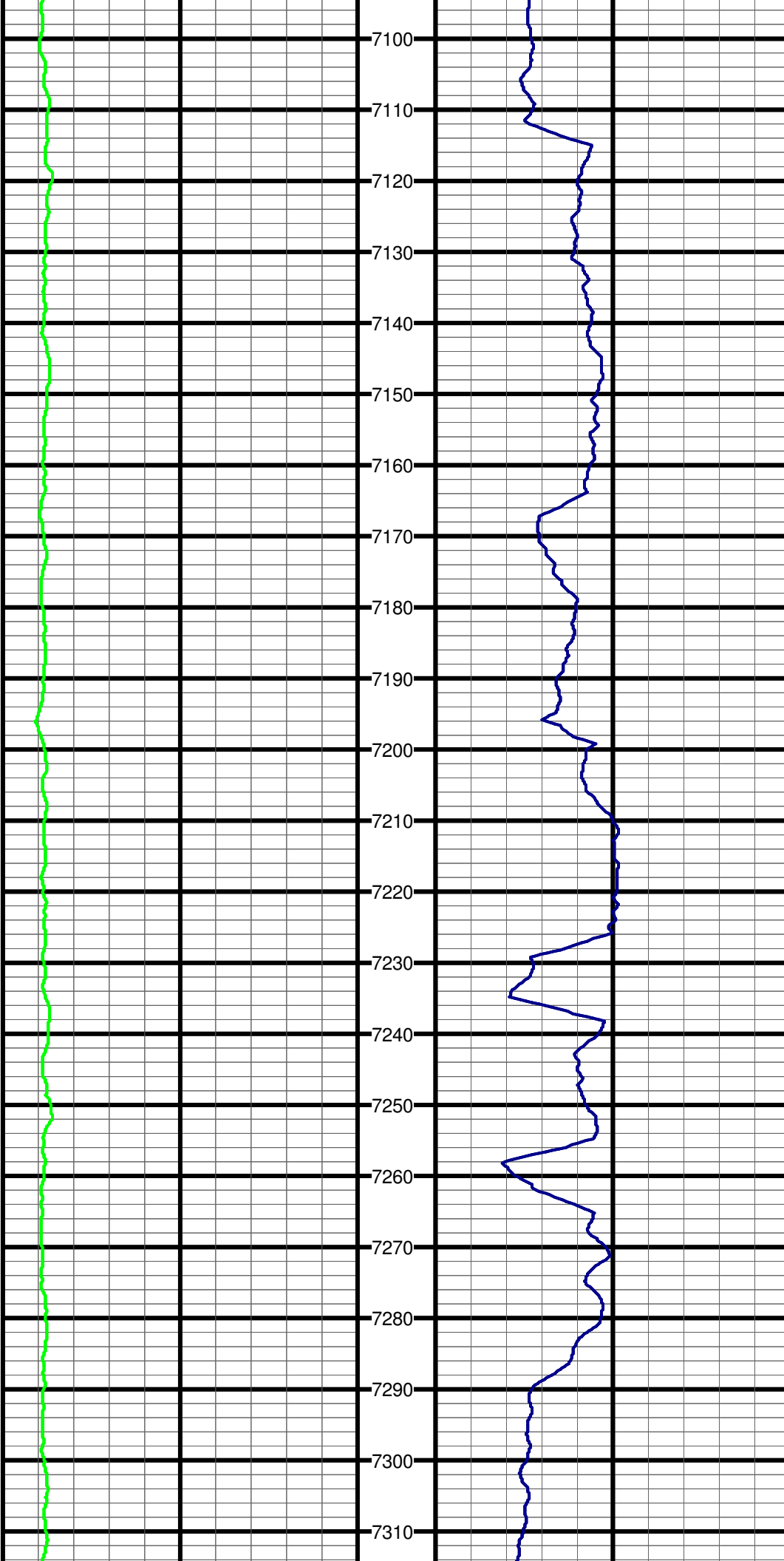












#121 MD:7112.0 TVD:4641.2 I:90.4 A:2.6 VS:2825.6

#122 MD:7142.0 TVD:4641.0 I:90.4 A:2.6 VS:2855.6

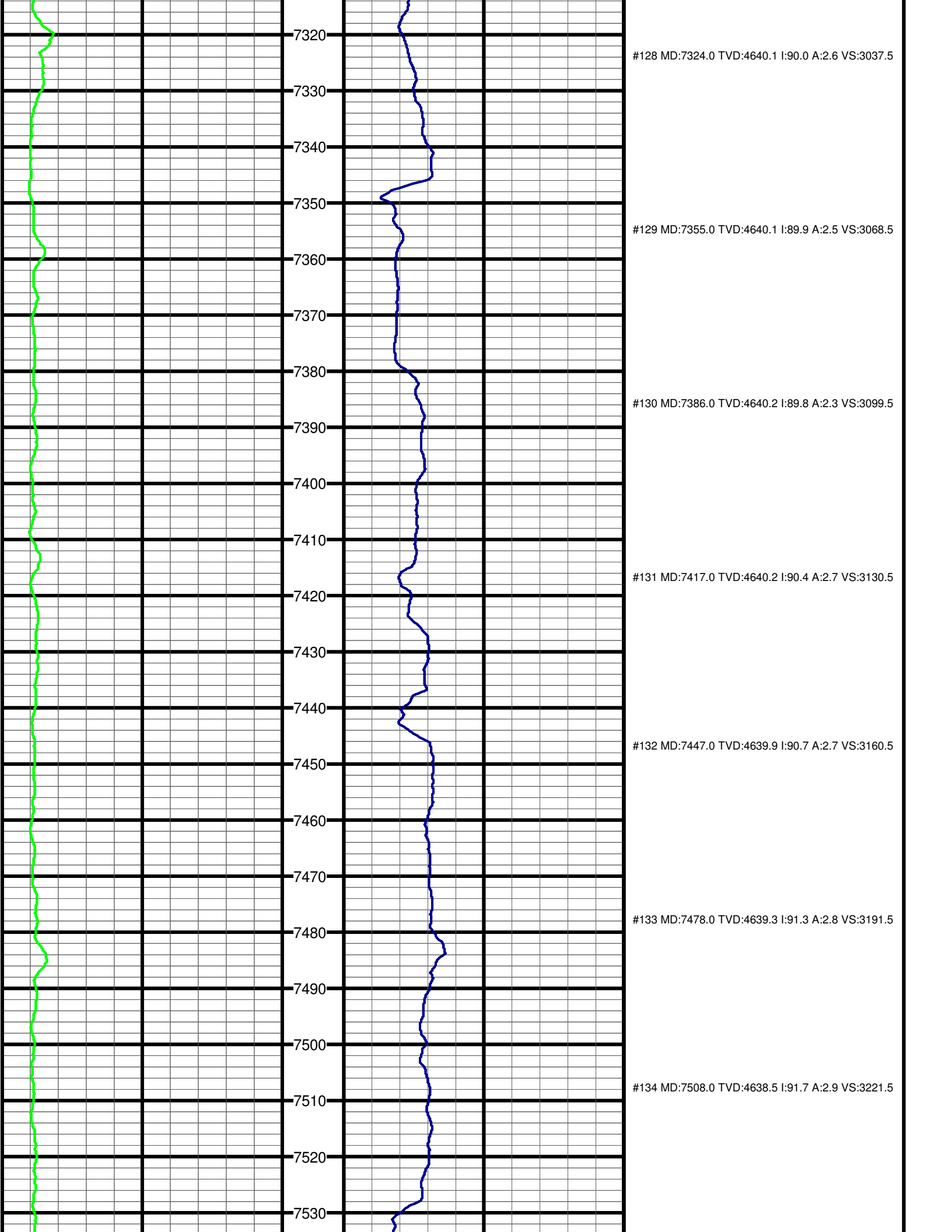
#123 MD:7172.0 TVD:4640.7 I:90.6 A:3.0 VS:2885.5

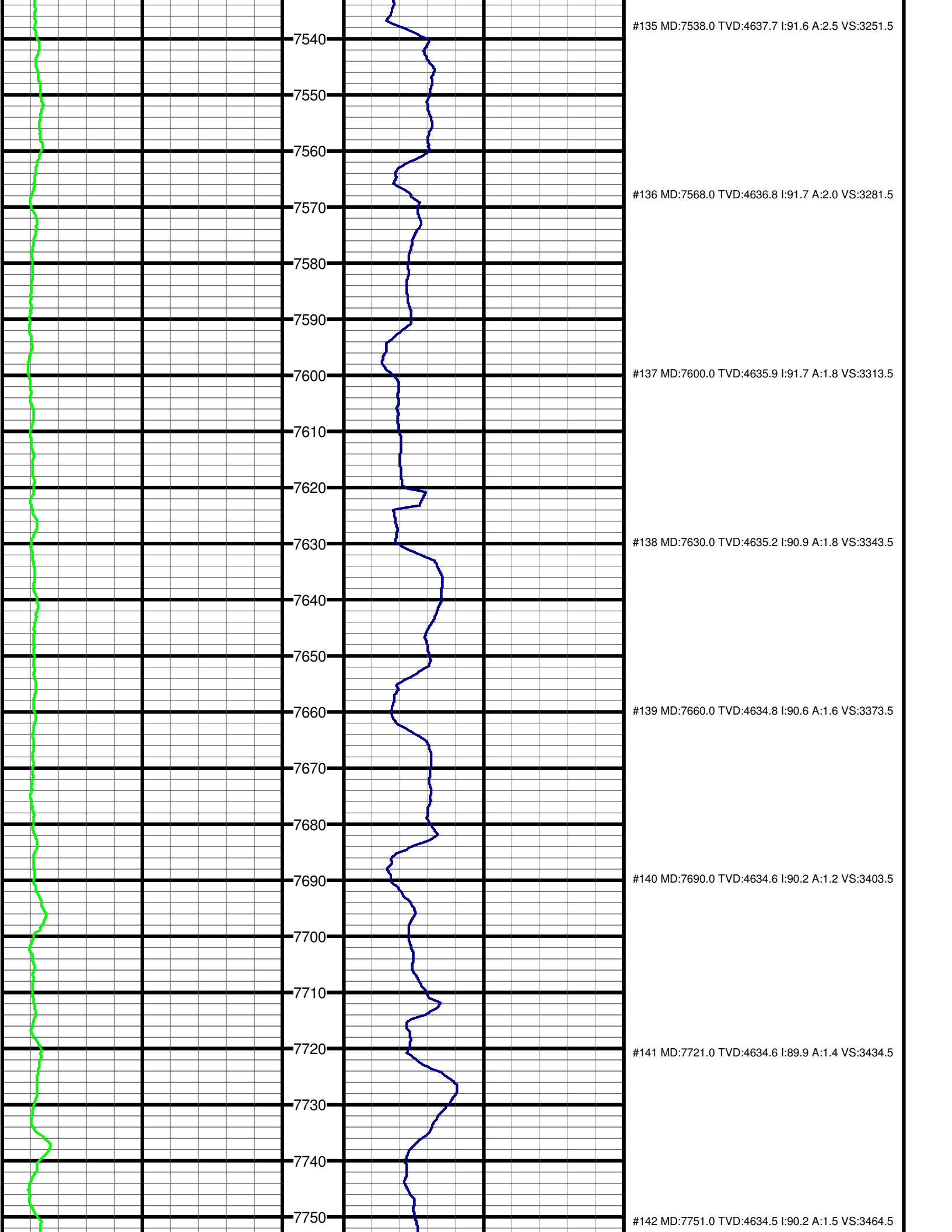
#124 MD:7203.0 TVD:4640.4 I:90.6 A:3.1 VS:2916.5

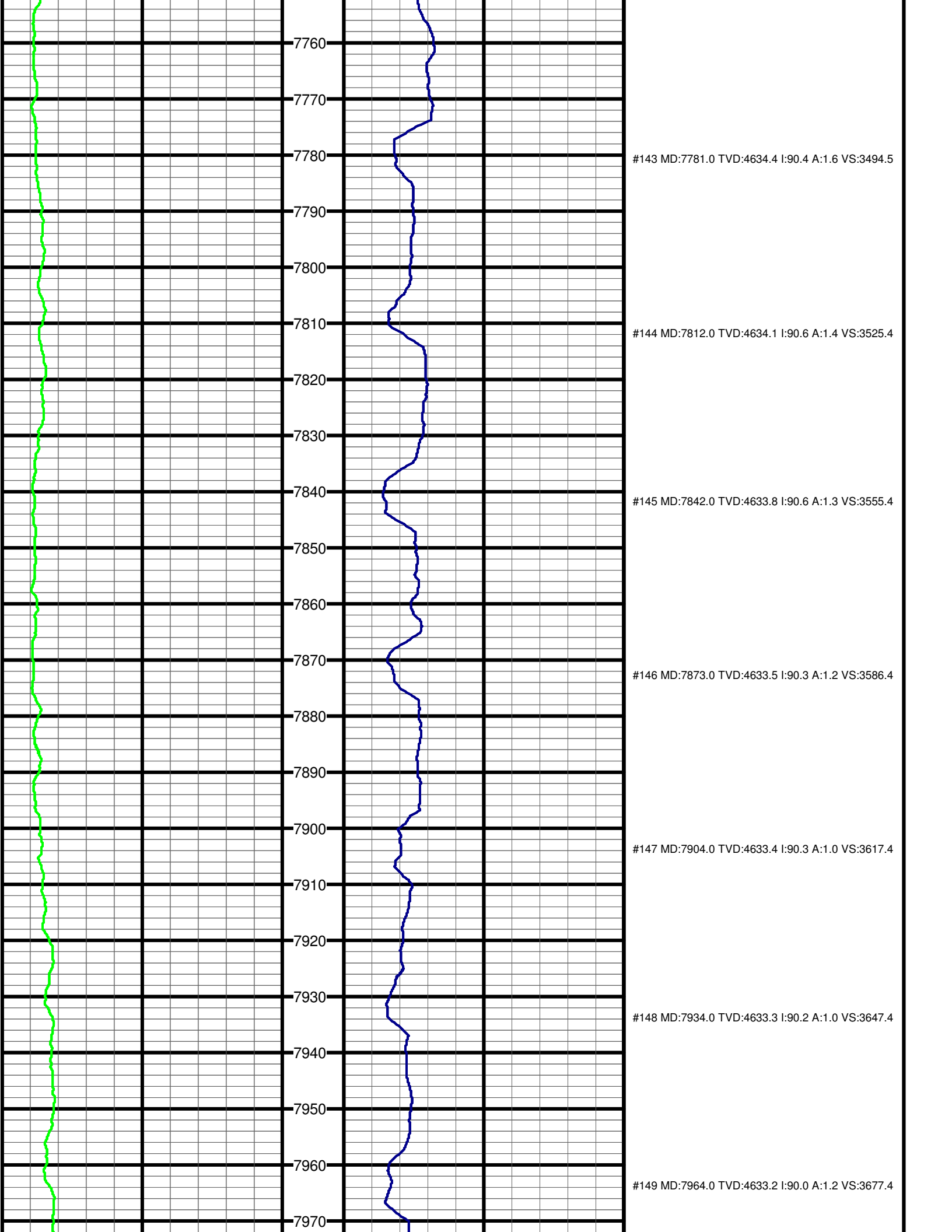
#125 MD:7233.0 TVD:4640.2 I:90.1 A:2.7 VS:2946.5

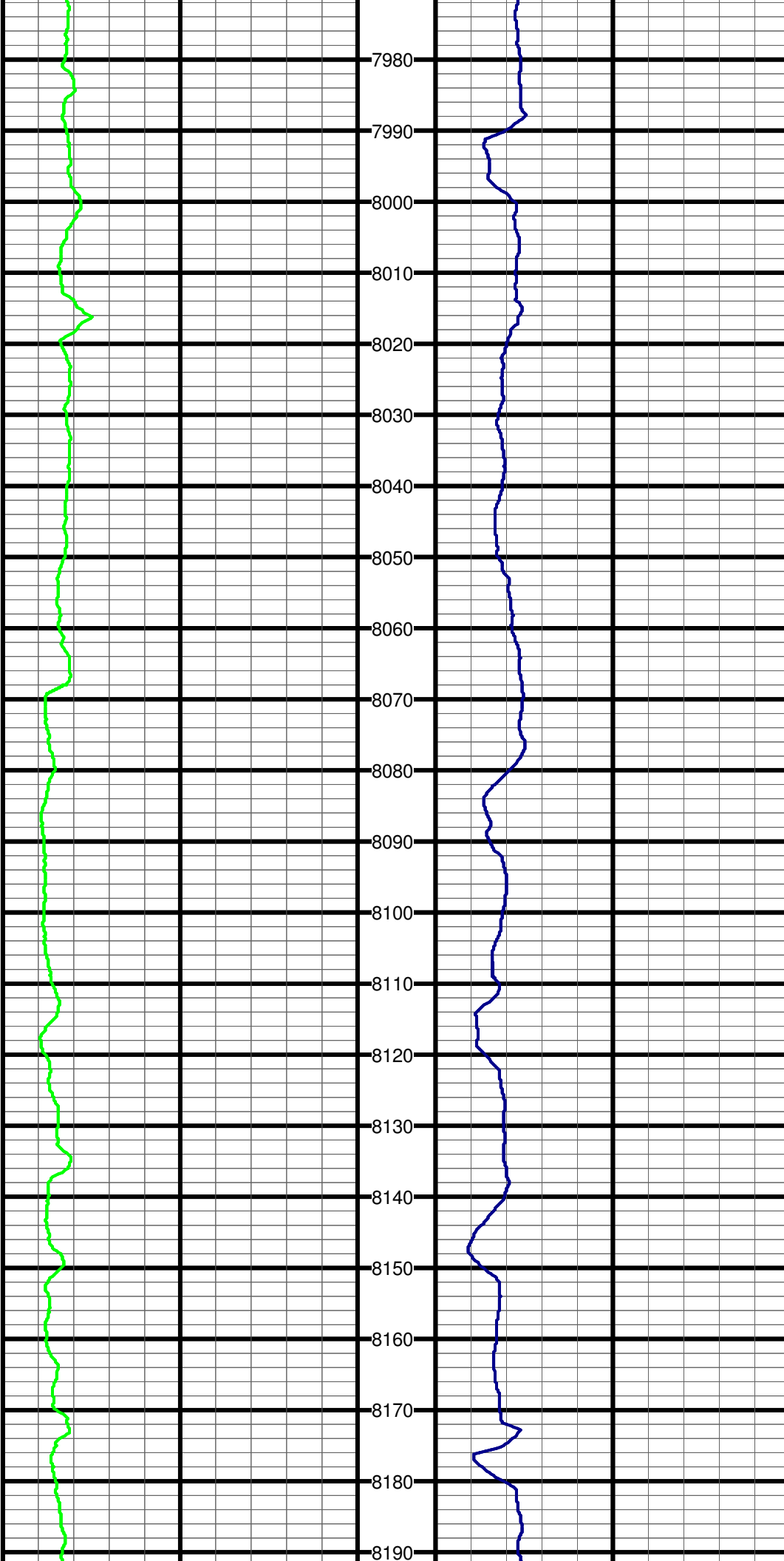
#126 MD:7264.0 TVD:4640.2 I:90.0 A:2.6 VS:2977.5

#127 MD:7294.0 TVD:4640.1 I:90.1 A:2.6 VS:3007.5









#150 MD:7995.0 TVD:4633.3 I:89.6 A:1.4 VS:3708.4

#151 MD:8025.0 TVD:4633.4 I:90.1 A:1.3 VS:3738.4

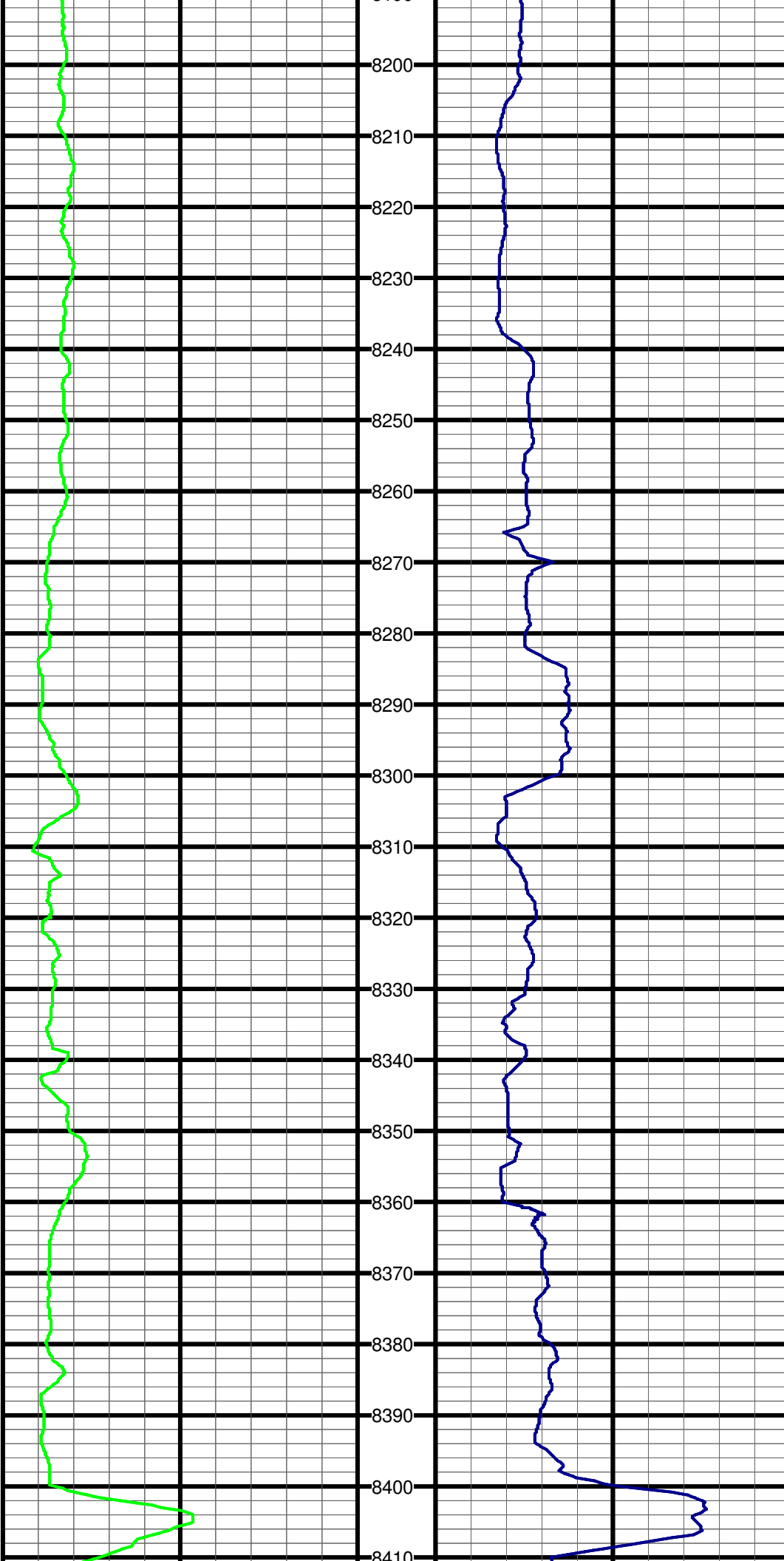
#152 MD:8056.0 TVD:4633.1 I:90.9 A:1.3 VS:3769.4

#153 MD:8088.0 TVD:4632.6 I:90.8 A:1.7 VS:3801.4

#154 MD:8120.0 TVD:4632.4 I:90.2 A:1.8 VS:3833.4

#155 MD:8151.0 TVD:4632.3 I:90.1 A:1.5 VS:3864.4

#156 MD:8182.0 TVD:4632.3 I:89.8 A:1.3 VS:3895.4



#157 MD:8214.0 TVD:4632.2 I:90.5 A:1.4 VS:3927.4

#158 MD:8245.0 TVD:4631.8 I:91.1 A:1.3 VS:3958.4

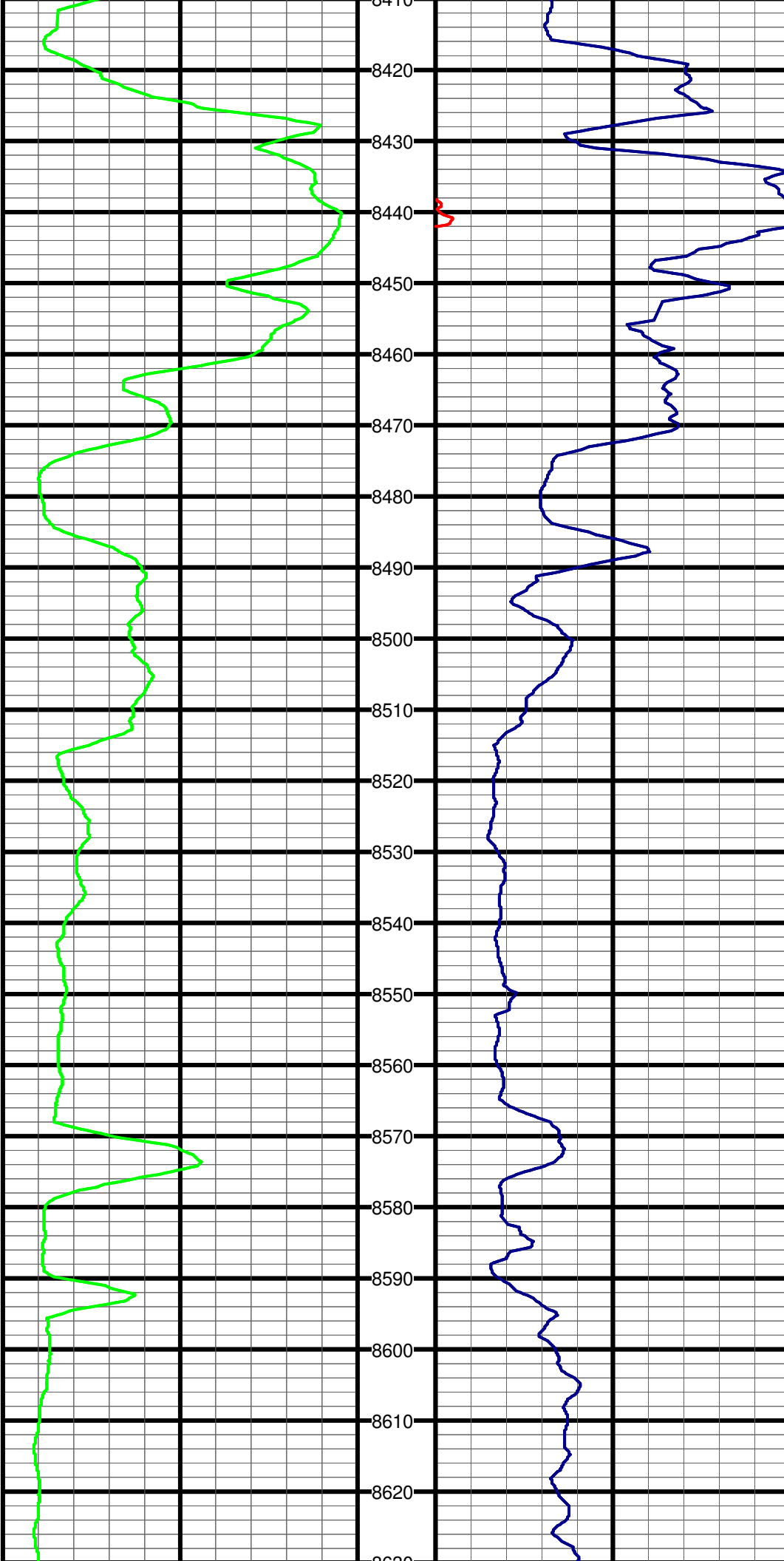
#159 MD:8276.0 TVD:4631.2 I:91.2 A:1.6 VS:3989.4

#160 MD:8307.0 TVD:4630.7 I:90.4 A:1.7 VS:4020.3

#161 MD:8339.0 TVD:4630.6 I:90.1 A:1.7 VS:4052.3

#162 MD:8371.0 TVD:4630.5 I:90.1 A:1.6 VS:4084.3

#163 MD:8403.0 TVD:4630.5 I:90.2 A:1.8 VS:4116.3



#164 MD:8434.0 TVD:4630.2 I:90.6 A:1.8 VS:4147.3

#165 MD:8466.0 TVD:4629.9 I:90.6 A:1.5 VS:4179.3

#166 MD:8497.0 TVD:4629.8 I:89.9 A:1.1 VS:4210.3

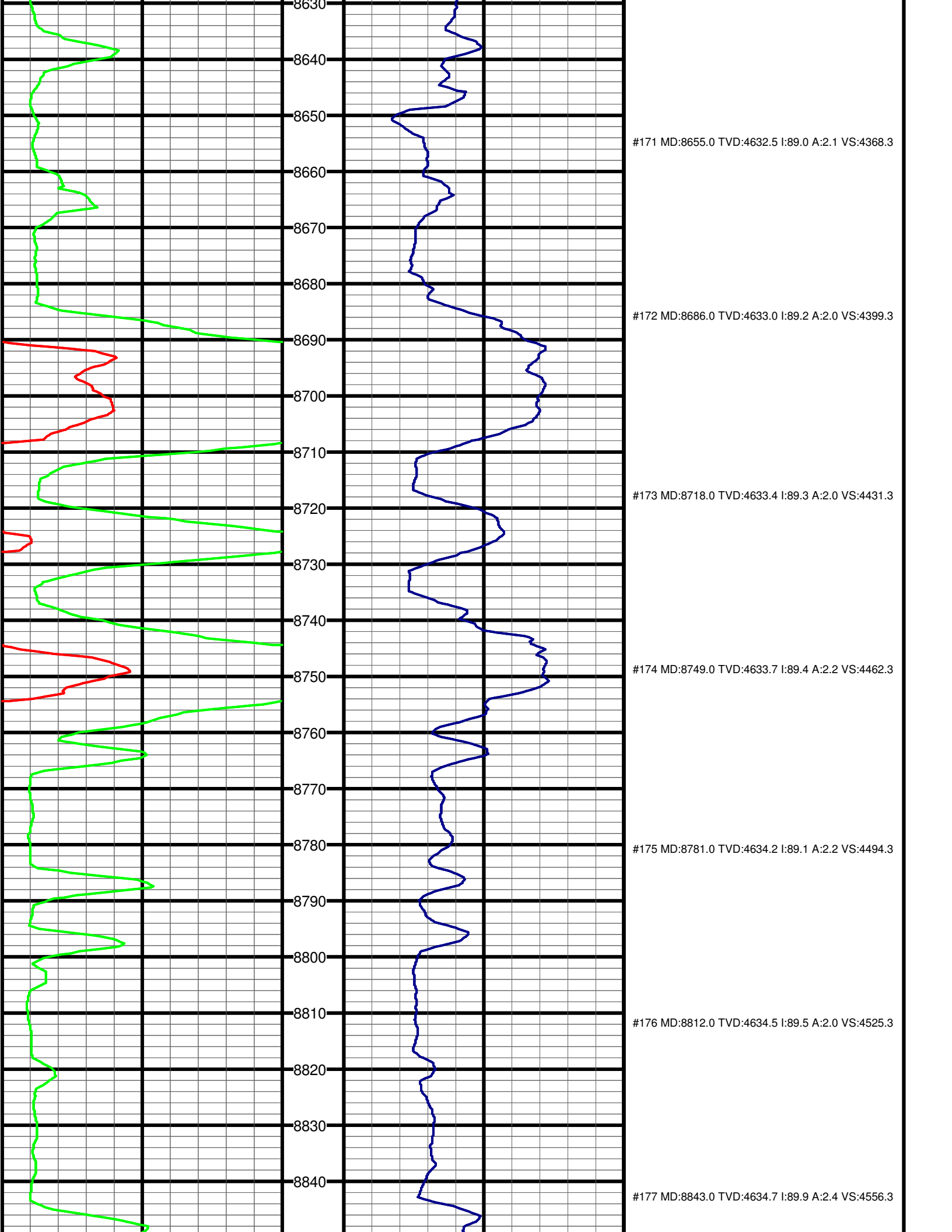
#167 MD:8529.0 TVD:4630.0 I:89.4 A:1.6 VS:4242.3

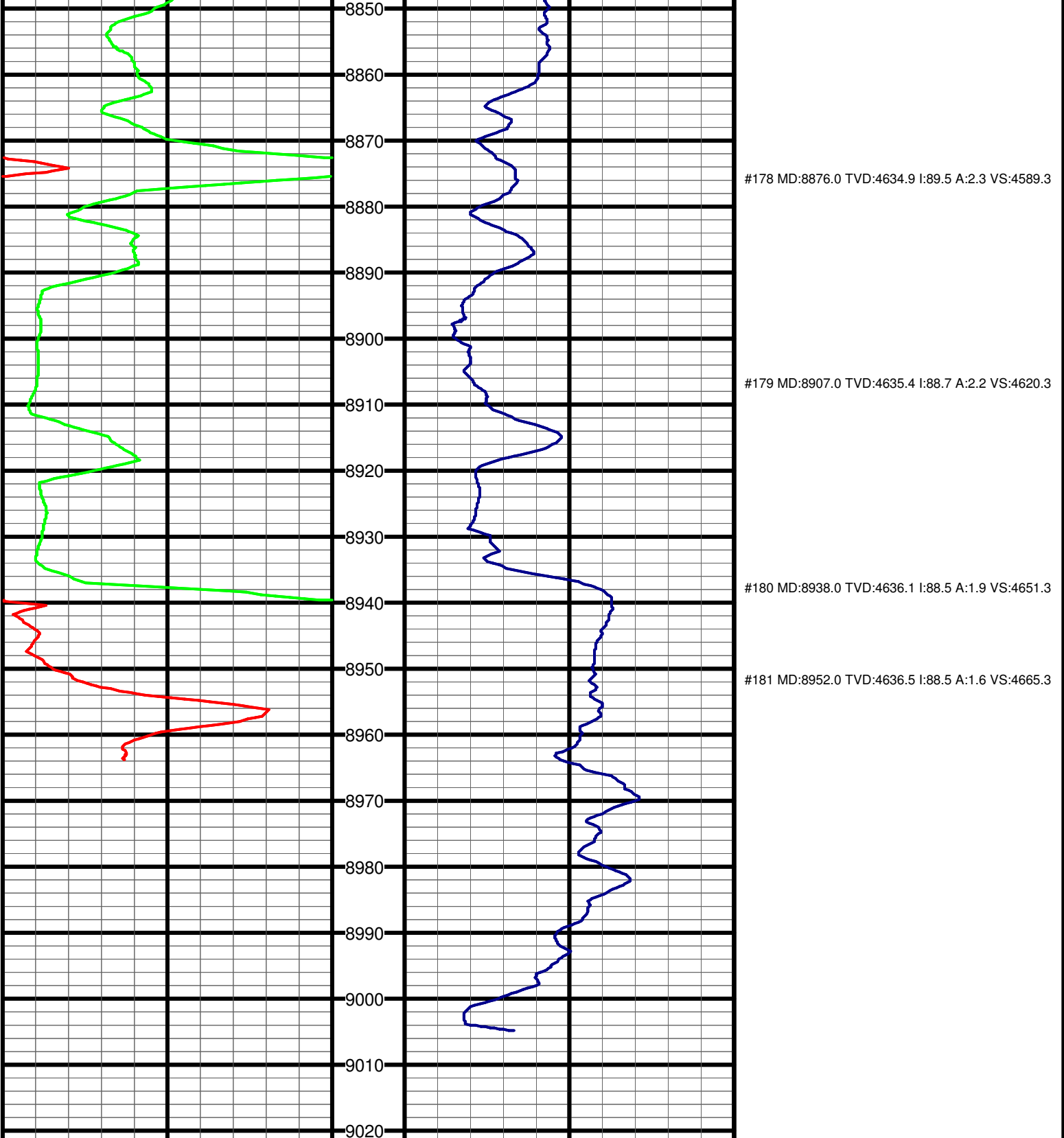
#168 MD:8561.0 TVD:4630.4 I:89.2 A:1.7 VS:4274.3

#169 MD:8592.0 TVD:4631.0 I:88.4 A:1.8 VS:4305.3

#170 MD:8623.0 TVD:4631.8 I:88.6 A:1.6 VS:4336.3







#178 MD:8876.0 TVD:4634.9 I:89.5 A:2.3 VS:4589.3

#179 MD:8907.0 TVD:4635.4 I:88.7 A:2.2 VS:4620.3

#180 MD:8938.0 TVD:4636.1 I:88.5 A:1.9 VS:4651.3

#181 MD:8952.0 TVD:4636.5 I:88.5 A:1.6 VS:4665.3

