

PRO DIRECTIONAL

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

Company: Tapstone Energy
 Well: Ivan 22-34-9 1H
 Field: Cowin Southeast
 Well ID: 15-077-22153-01-00
 Job Number: LKS6118715
 Location: Sec. 27-T34S-9W
 Operator 1: J.Treille
 Operator 2: J.Saba

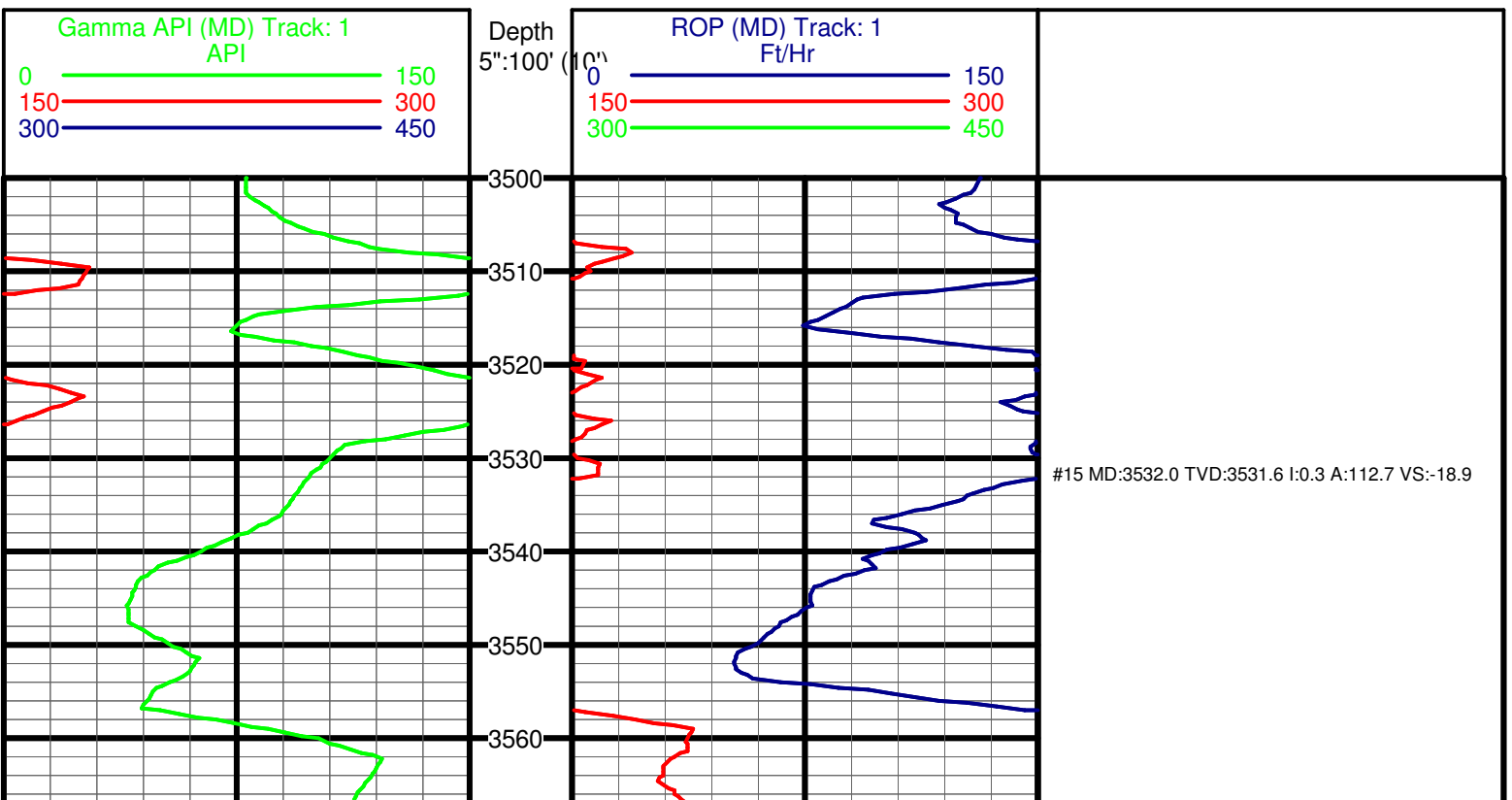
State: Kansas
 County: Harper
 Country: USA

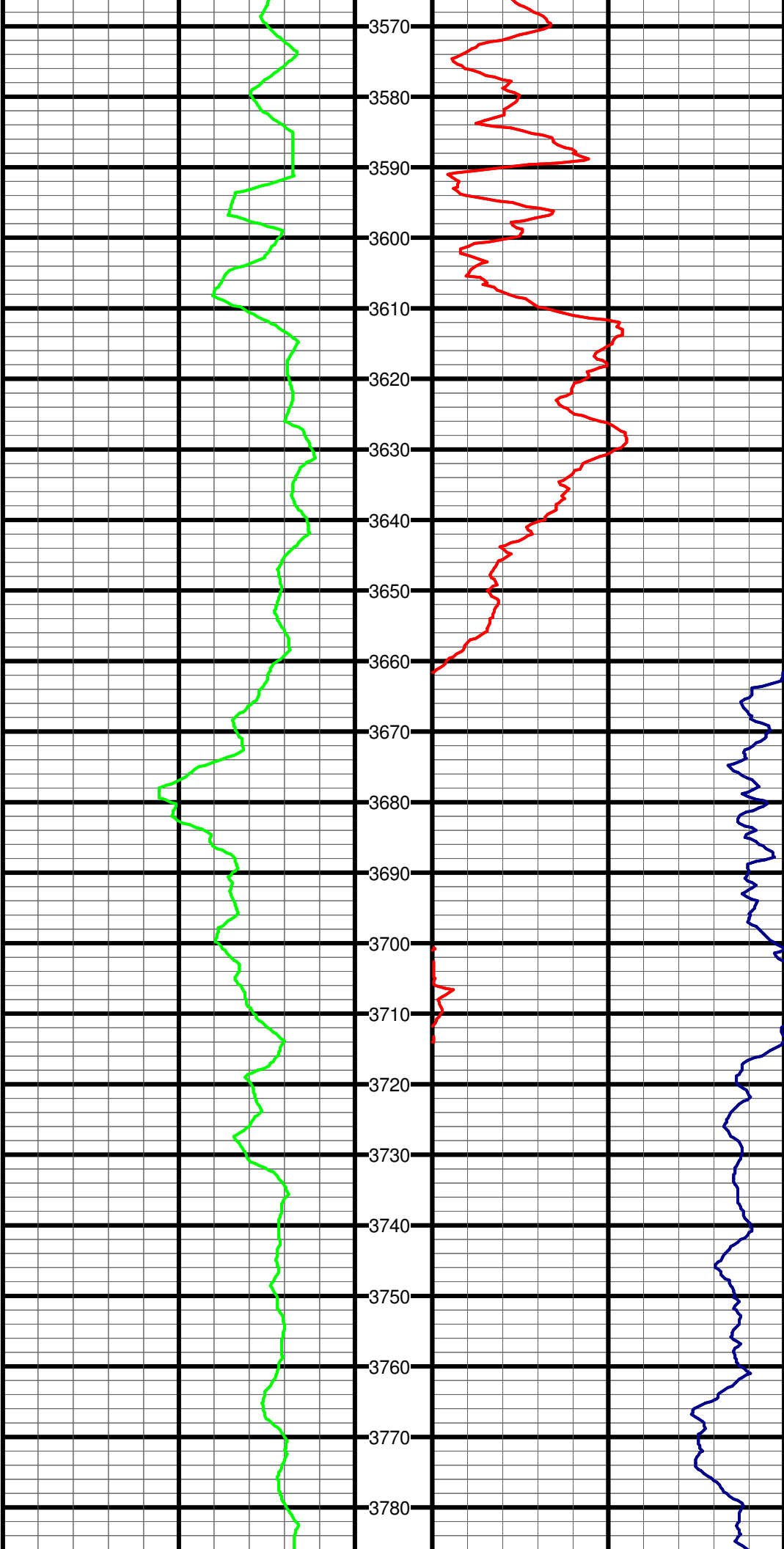
Elev KB: 22'
 Elev DF: 1272' + 22' = 1294'
 Elev GL: 1272'

Comment 1: LAT: 37° 3' 51.90 N
 Comment 2: LONG: 98° 17' 27.72 W
 Comment 3: Y: 144897.40 / X: 2060977.70
 Comment 4: Mud Density (lb/bbl): 8.4 / Funnel Viscosity (sec/qt): 27
 Comment 5: Max Temp (DegF): 164° (NAD 1927) Gamma Ray in Reference to Elev KB (Kansas South 1502)

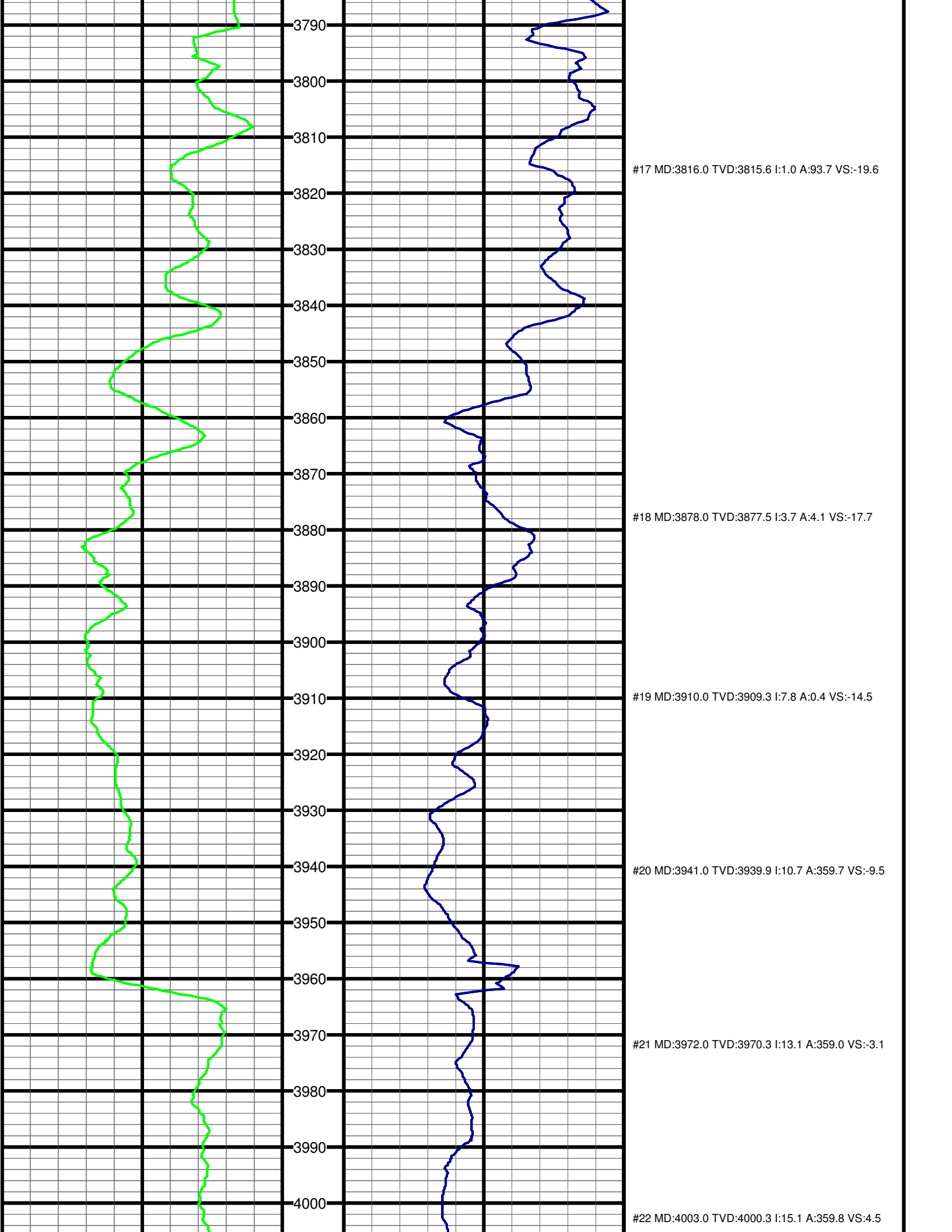
Hole Data		Casing Record			
Size	From	To	Size	From	To
12 1/4"	0'	794'	9 5/8"	0'	794'
8 3/4"	794'	5,187'	7"	794'	5,187'
6 1/8"	5,187'	9,530'			

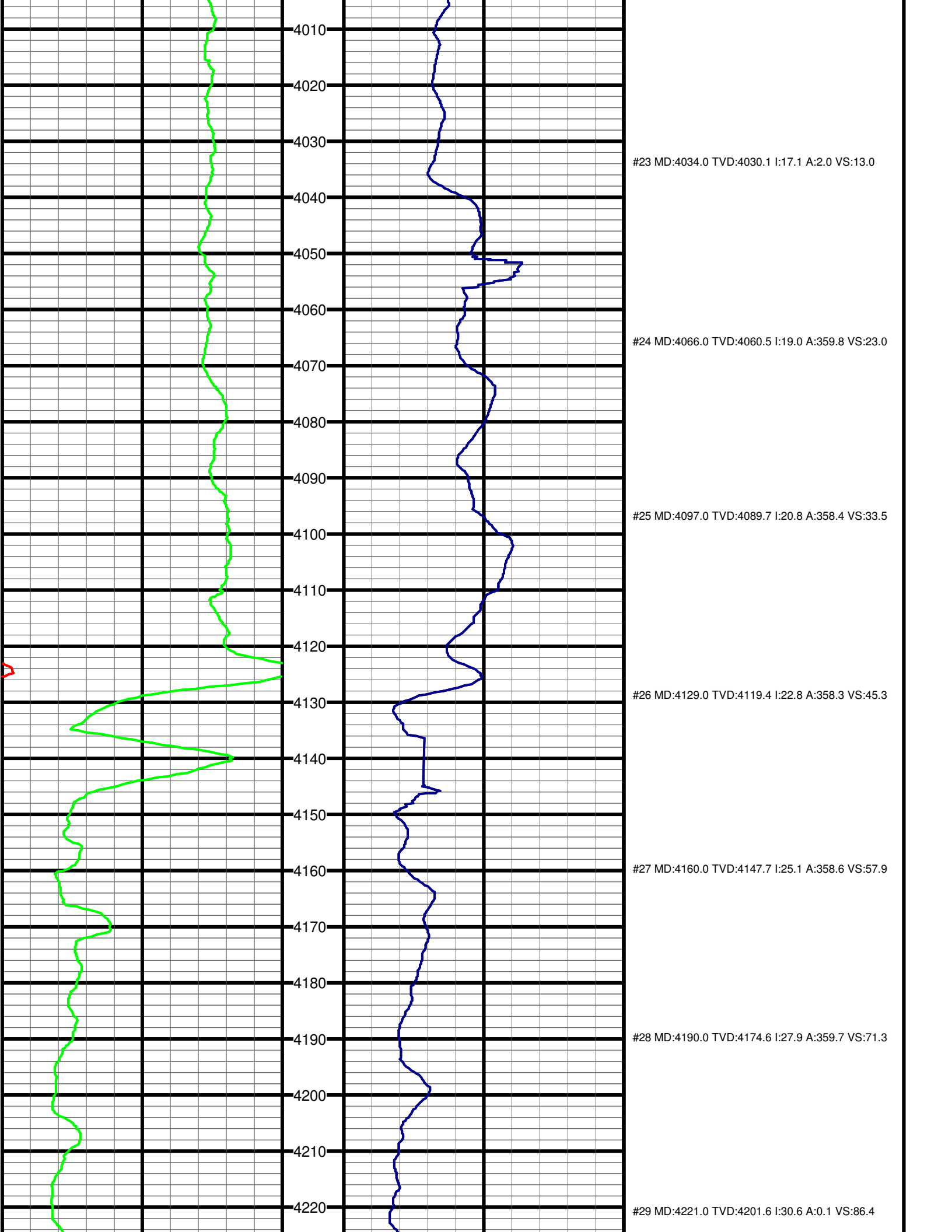
Tool Run Data		Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	1095	2058	2604	2058		
Cal Factor	4.85	2.75	2.75	2.75		
Gamma Offset	35'	40'	40'	39'		
Start Depth	3,500'	5,152'	6,857'	8,496'		
Start Date	08/09/2015	08/12/2015	08/15/2015	08/18/2015		
Start Time	03:40	13:10	02:00	01:15		
End Depth	5,152'	6,857'	8,496'	9,530'		
End Date	08/11/2015	08/14/2015	08/17/2015	08/19/2015		
End Time	06:30	17:00	18:27	13:32		

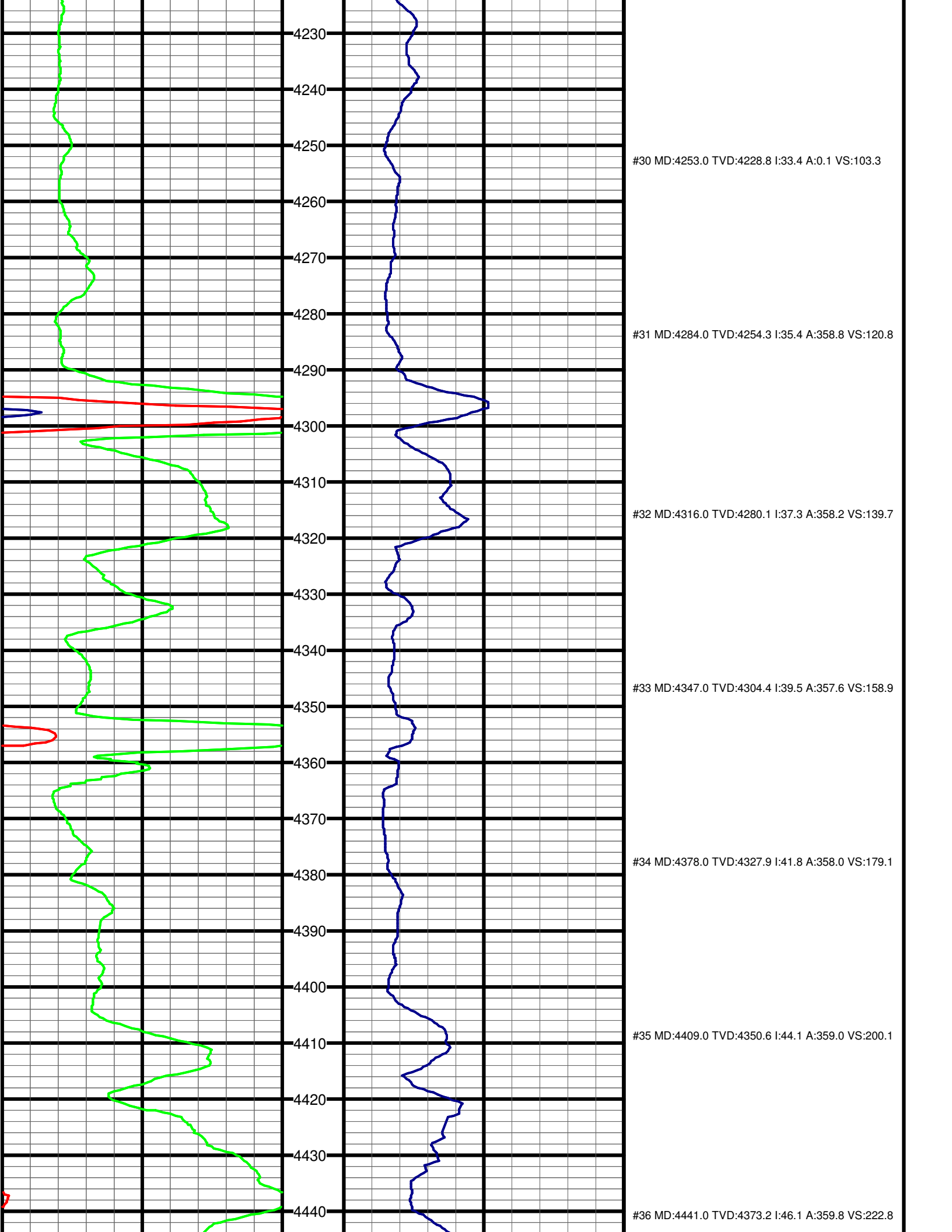


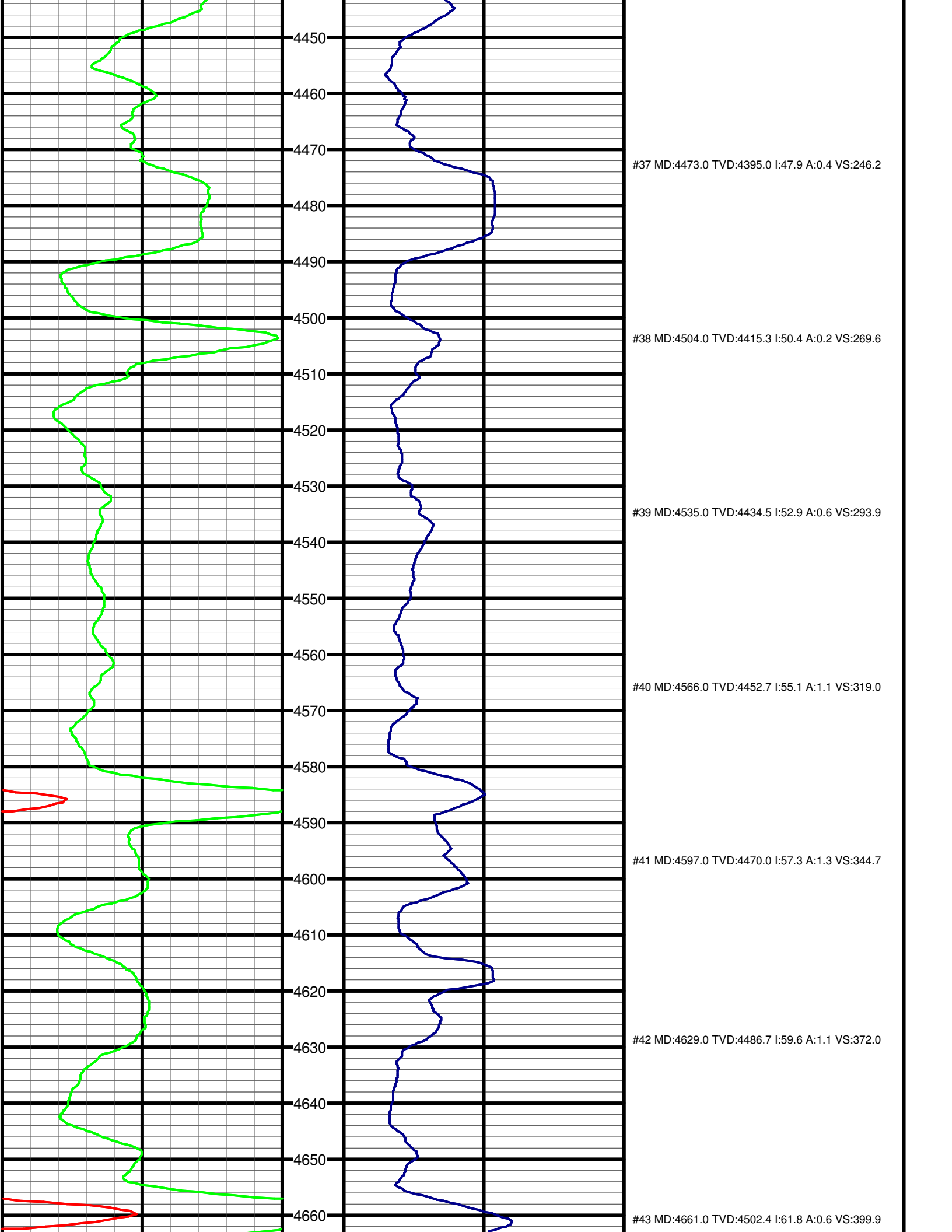


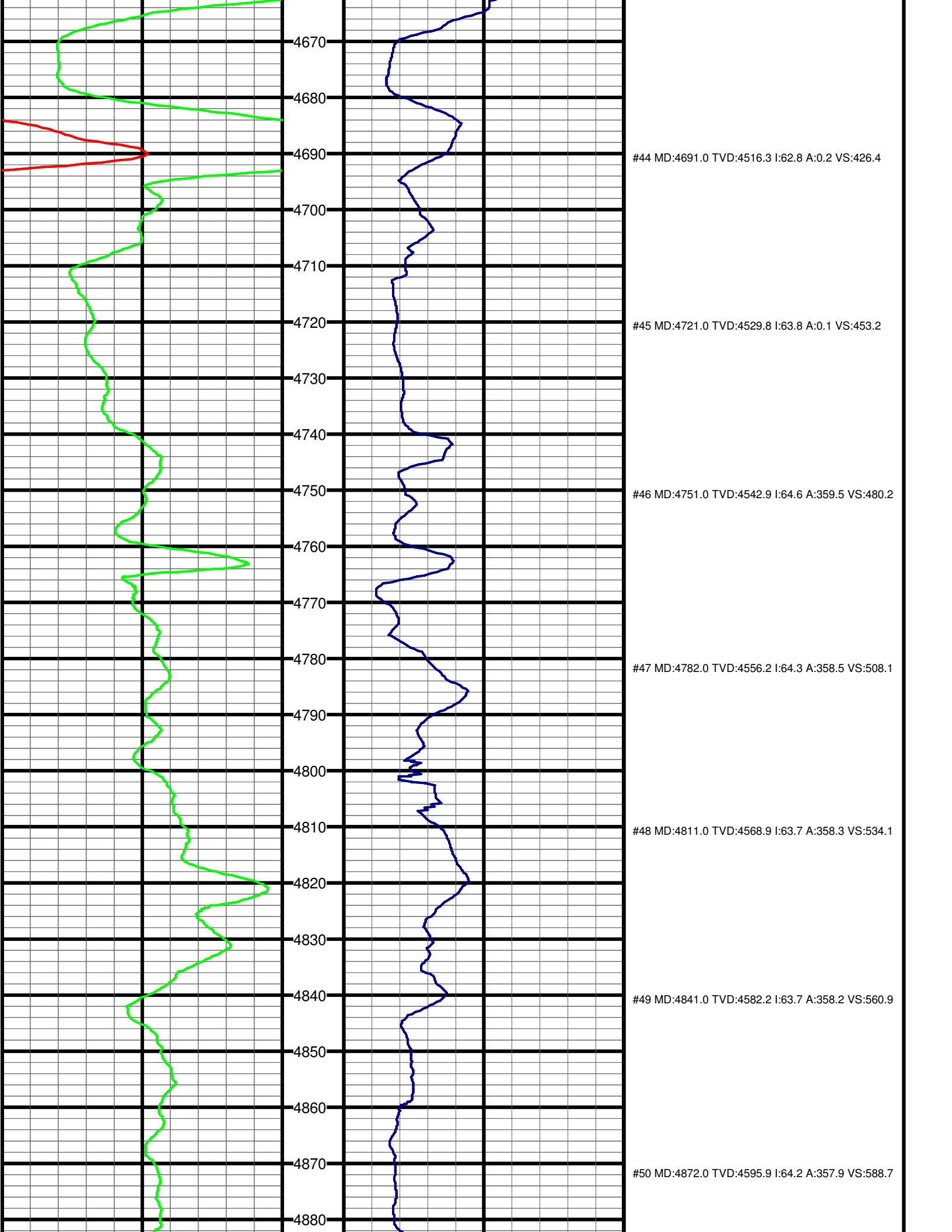
#16 MD:3722.0 TVD:3721.6 I:0.6 A:114.3 VS:-19.4

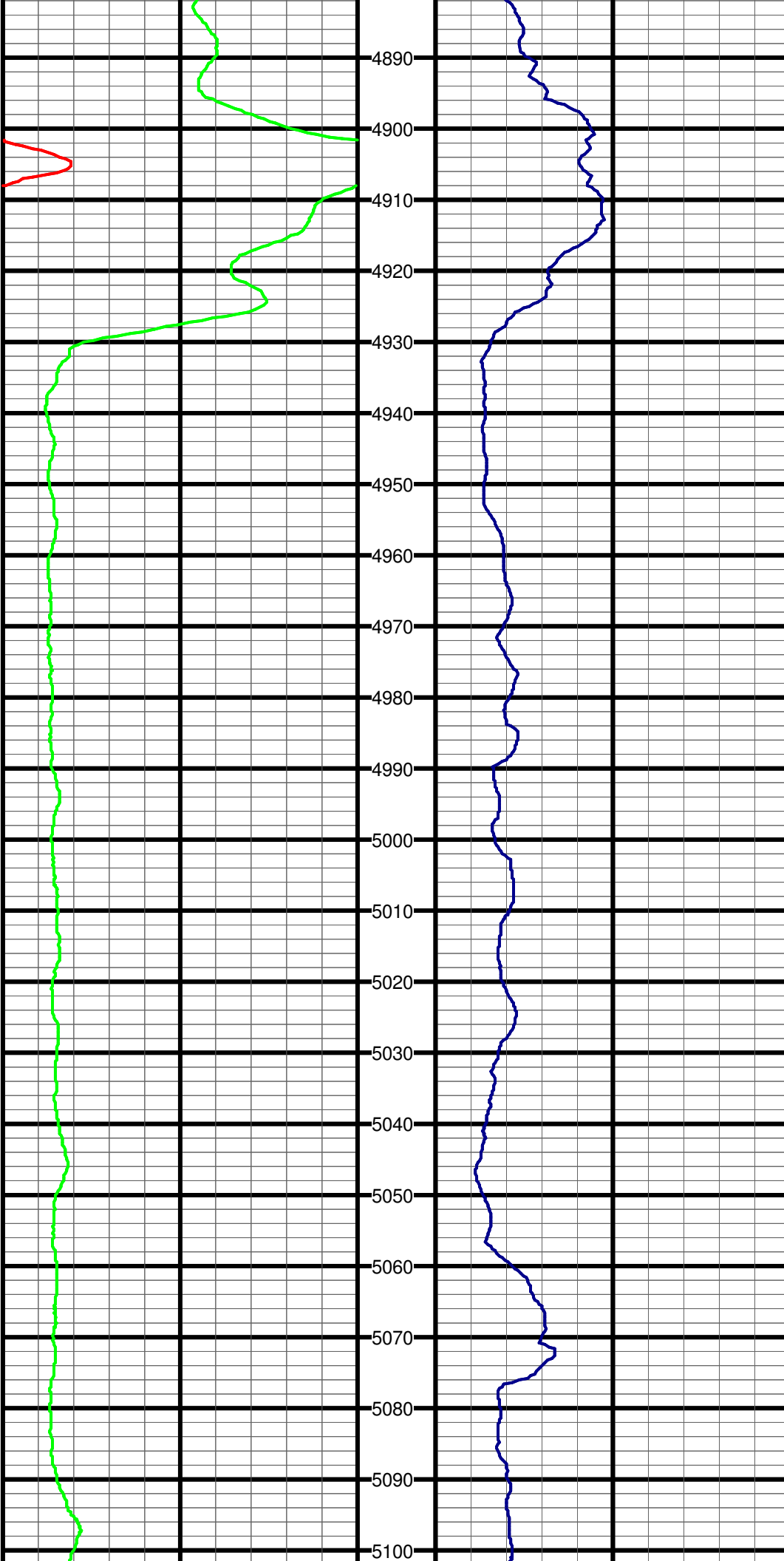












#51 MD:4902.0 TVD:4608.7 I:65.2 A:358.1 VS:615.7

#52 MD:4933.0 TVD:4621.0 I:68.0 A:358.5 VS:644.1

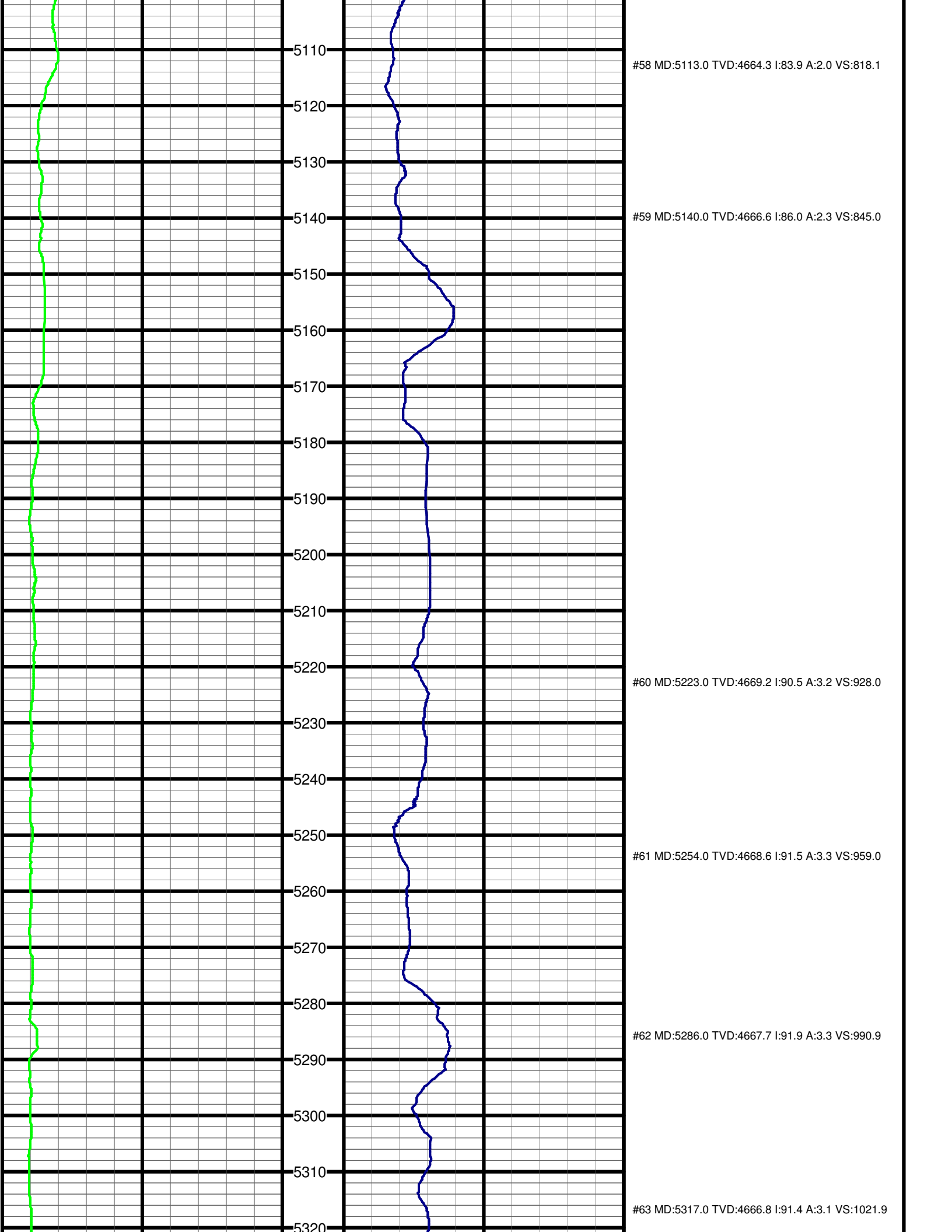
#53 MD:4963.0 TVD:4631.6 I:70.7 A:359.4 VS:672.1

#54 MD:4993.0 TVD:4640.8 I:73.4 A:0.4 VS:700.6

#55 MD:5023.0 TVD:4648.7 I:76.0 A:0.9 VS:729.6

#56 MD:5053.0 TVD:4655.3 I:78.8 A:1.8 VS:758.8

#57 MD:5083.0 TVD:4660.4 I:81.4 A:2.4 VS:788.4



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#58 MD:5113.0 TVD:4664.3 I:83.9 A:2.0 VS:818.1

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#59 MD:5140.0 TVD:4666.6 I:86.0 A:2.3 VS:845.0

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#60 MD:5223.0 TVD:4669.2 I:90.5 A:3.2 VS:928.0

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#61 MD:5254.0 TVD:4668.6 I:91.5 A:3.3 VS:959.0

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#62 MD:5286.0 TVD:4667.7 I:91.9 A:3.3 VS:990.9

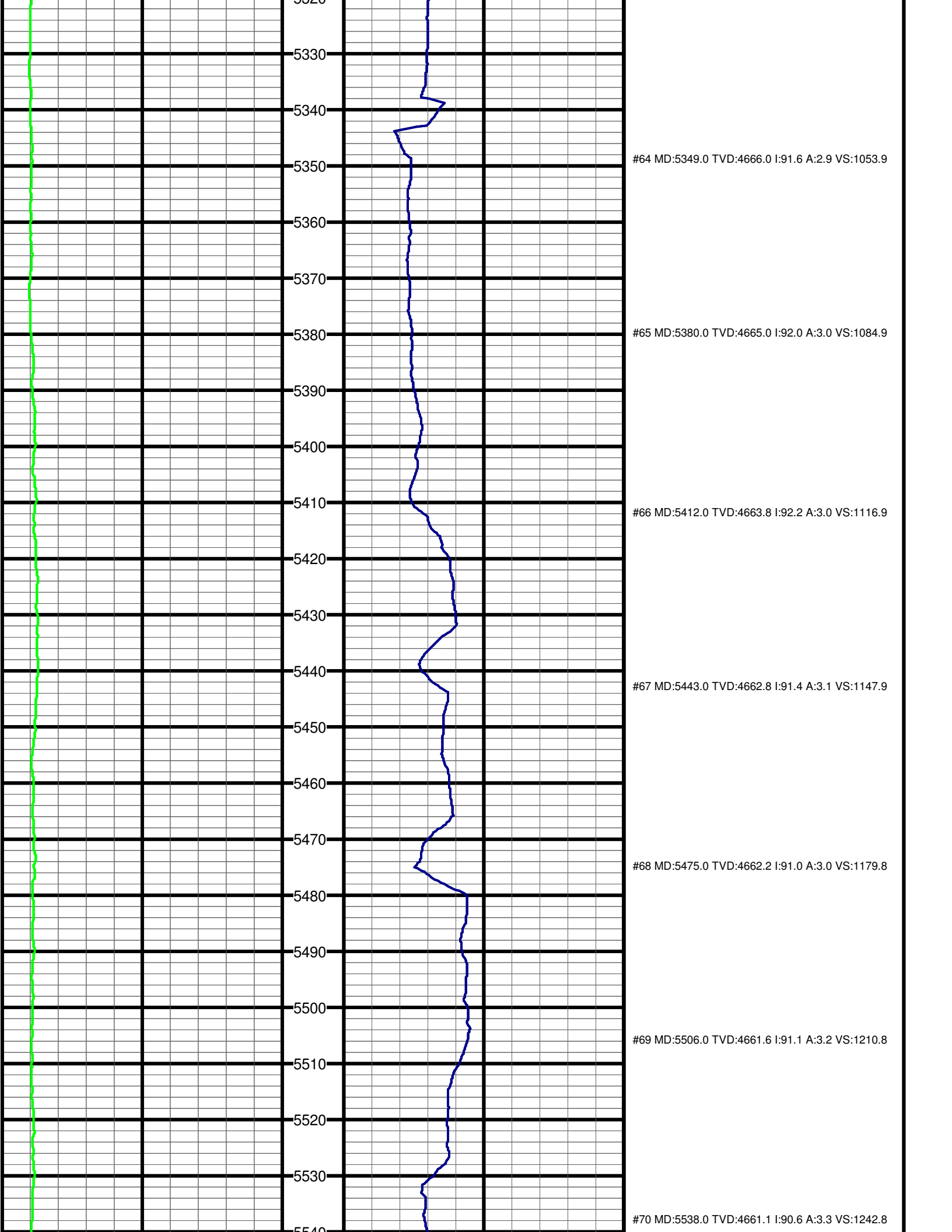
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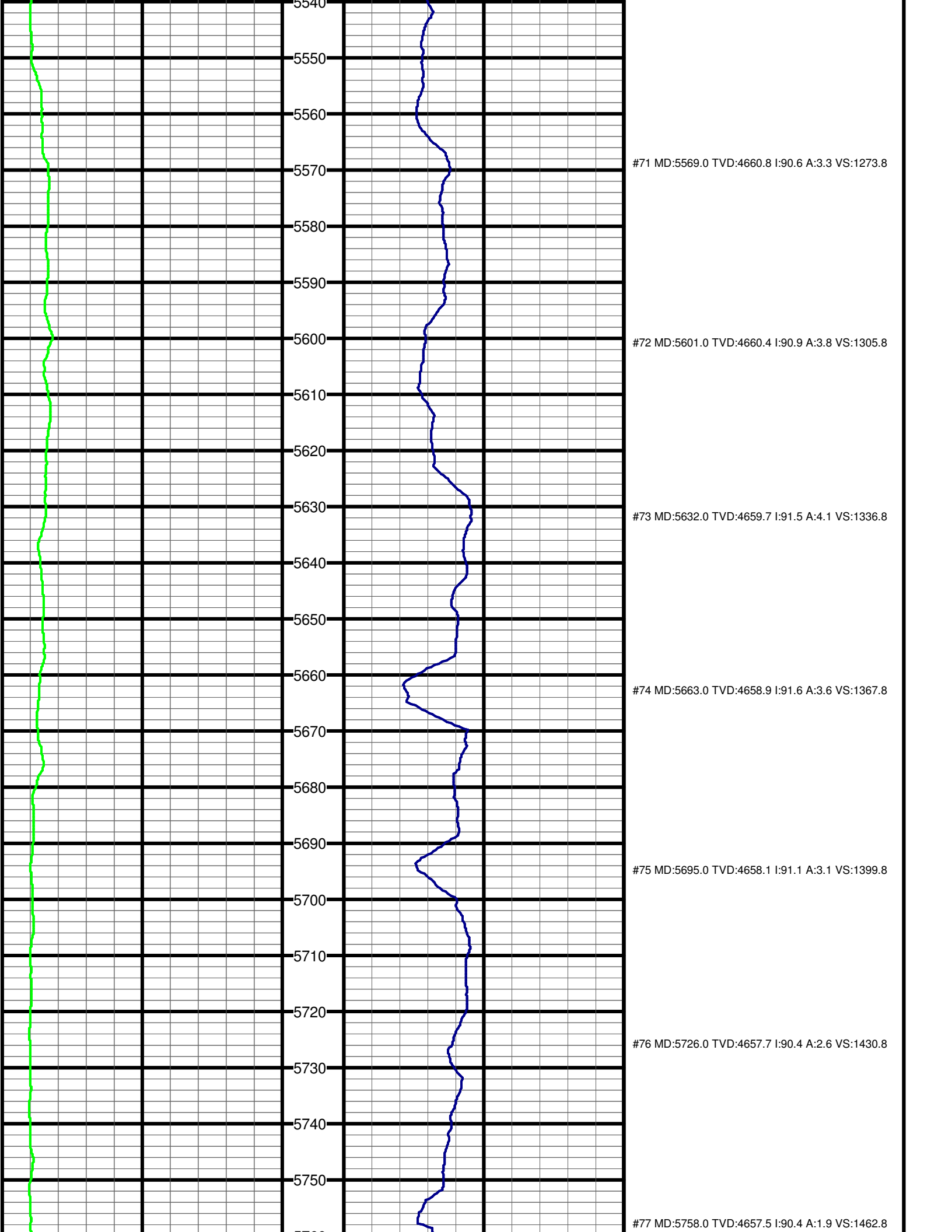
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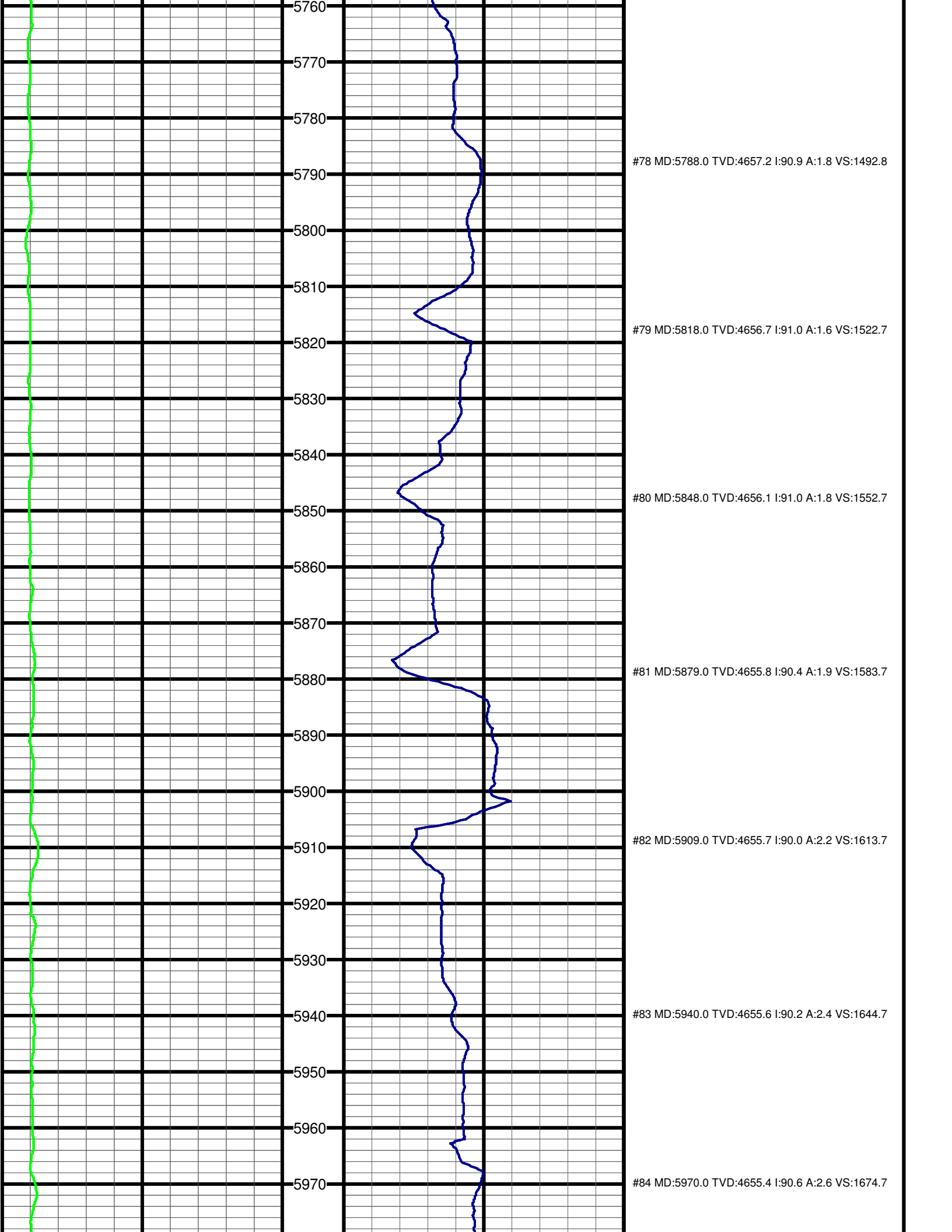
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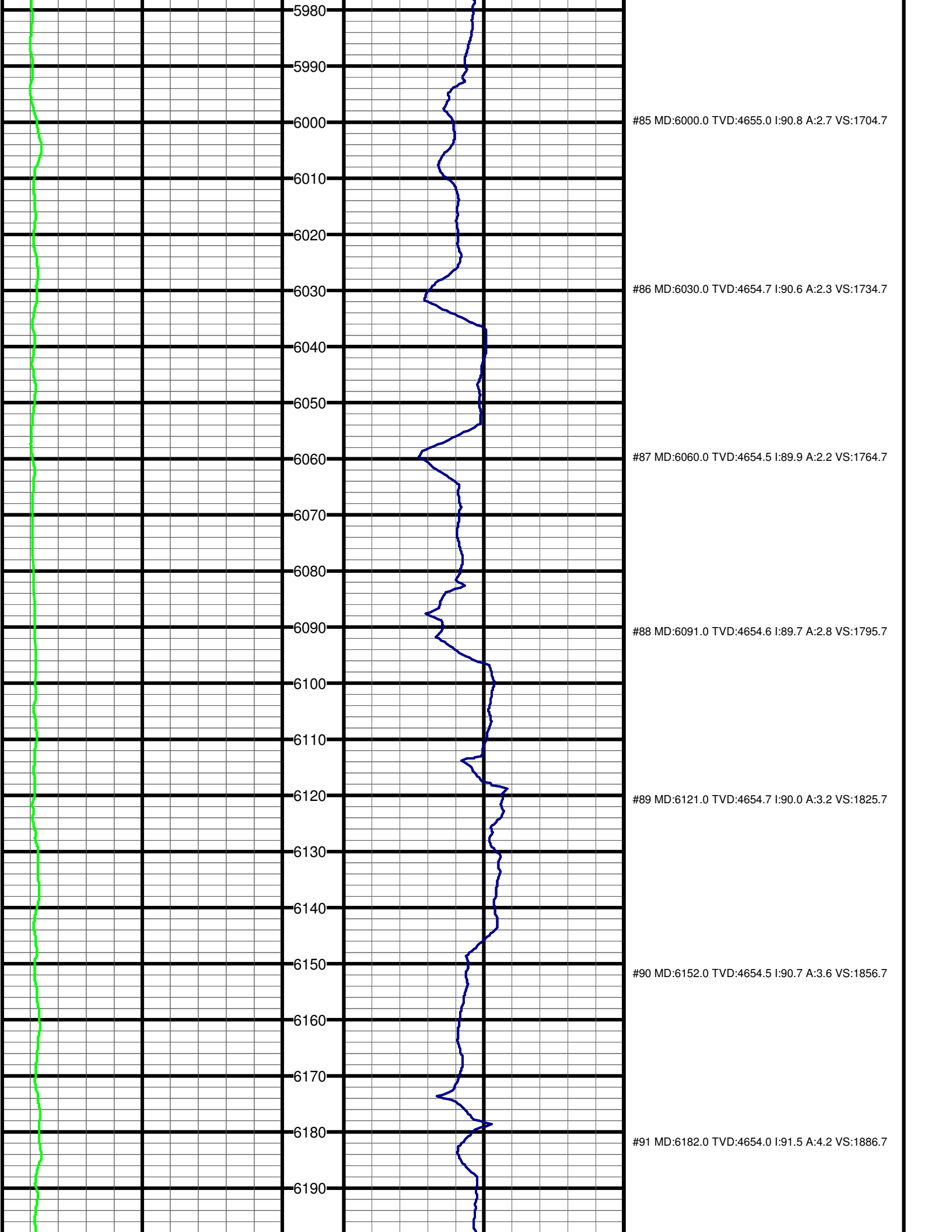
#63 MD:5317.0 TVD:4666.8 I:91.4 A:3.1 VS:1021.9

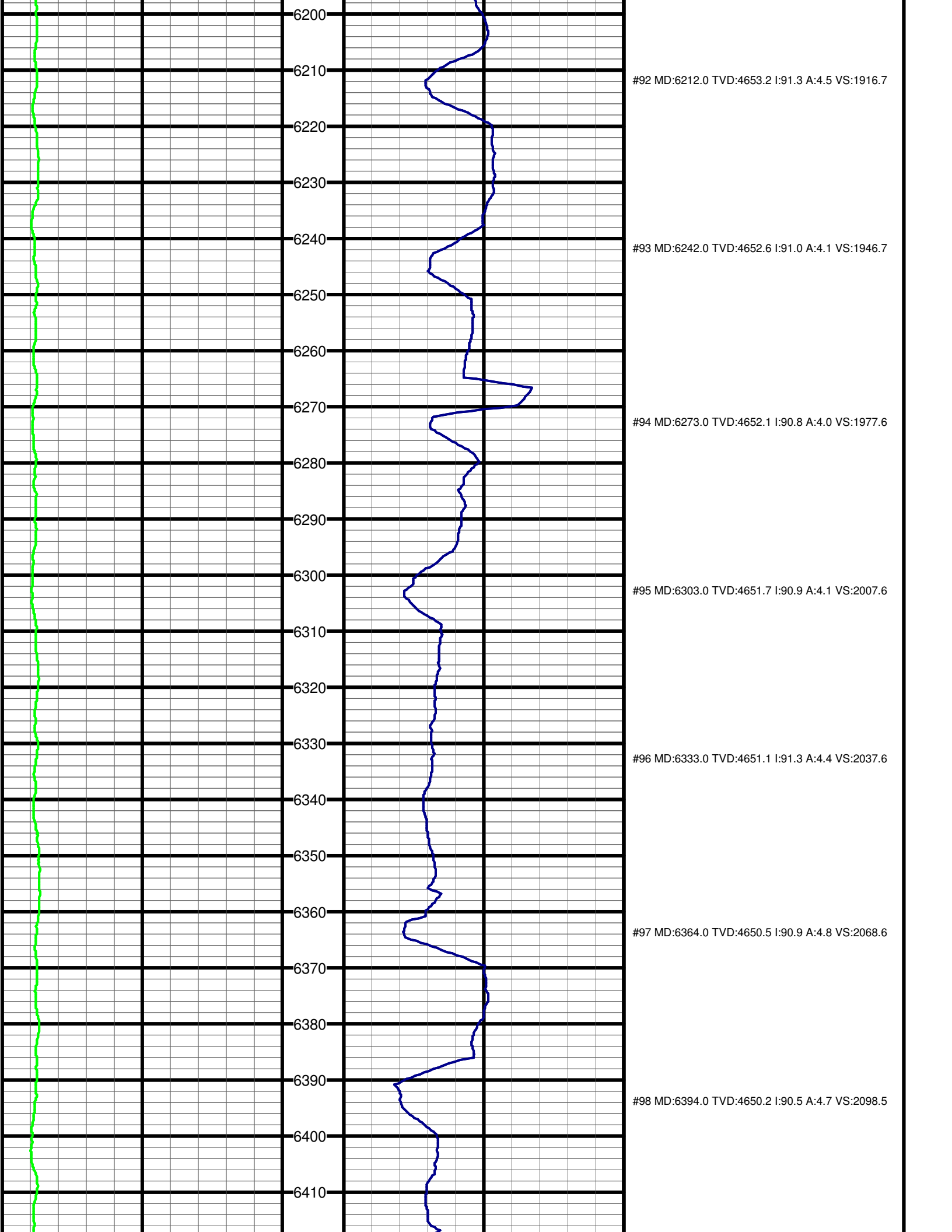
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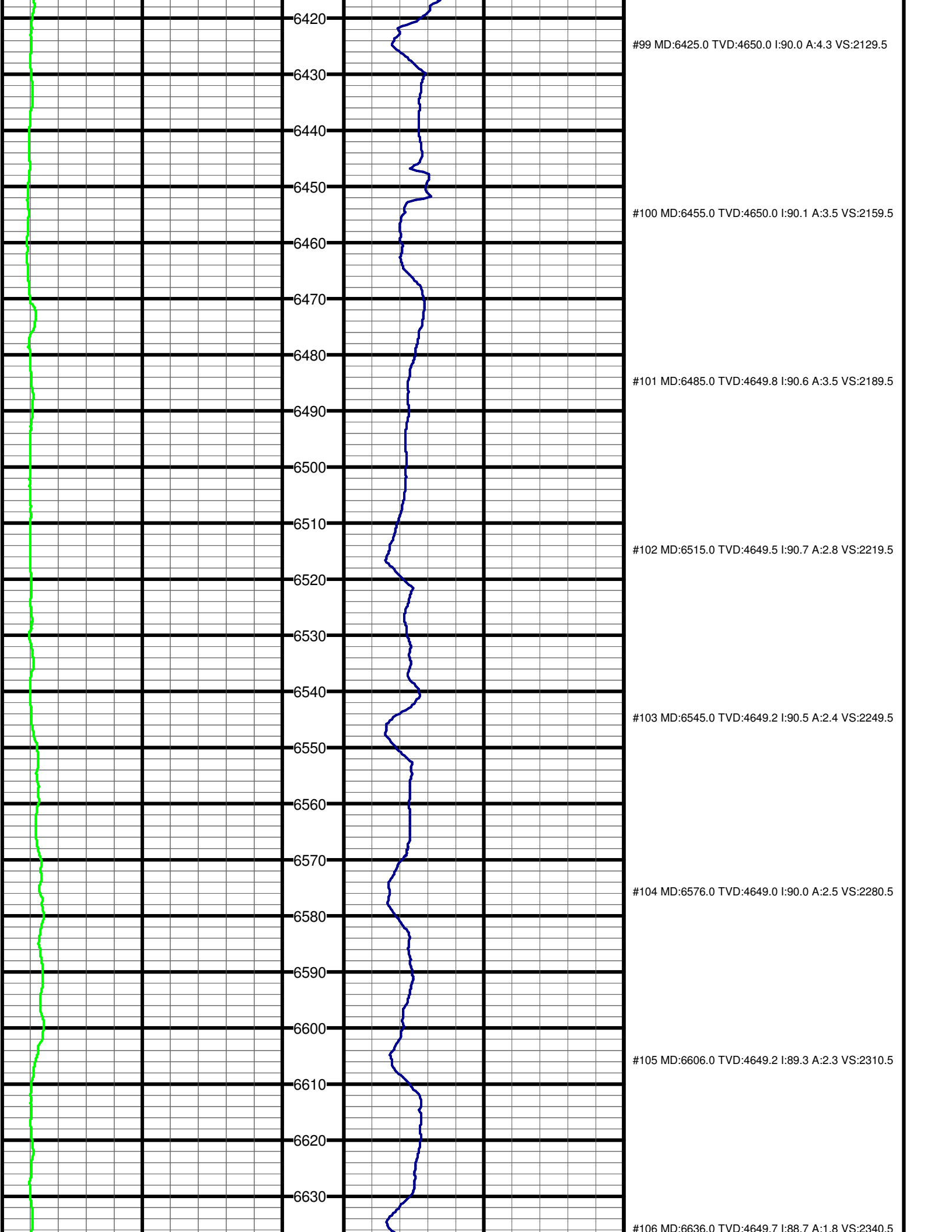


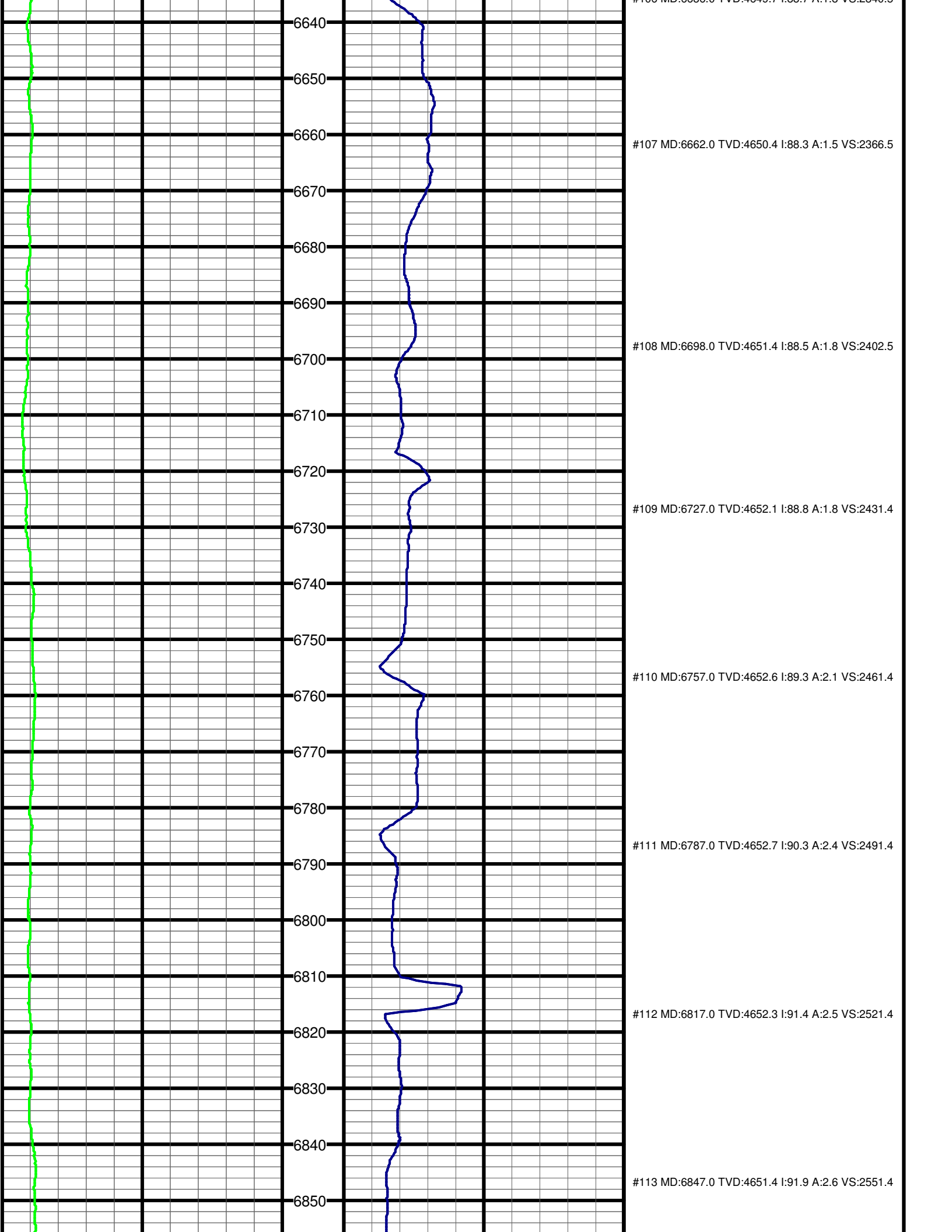


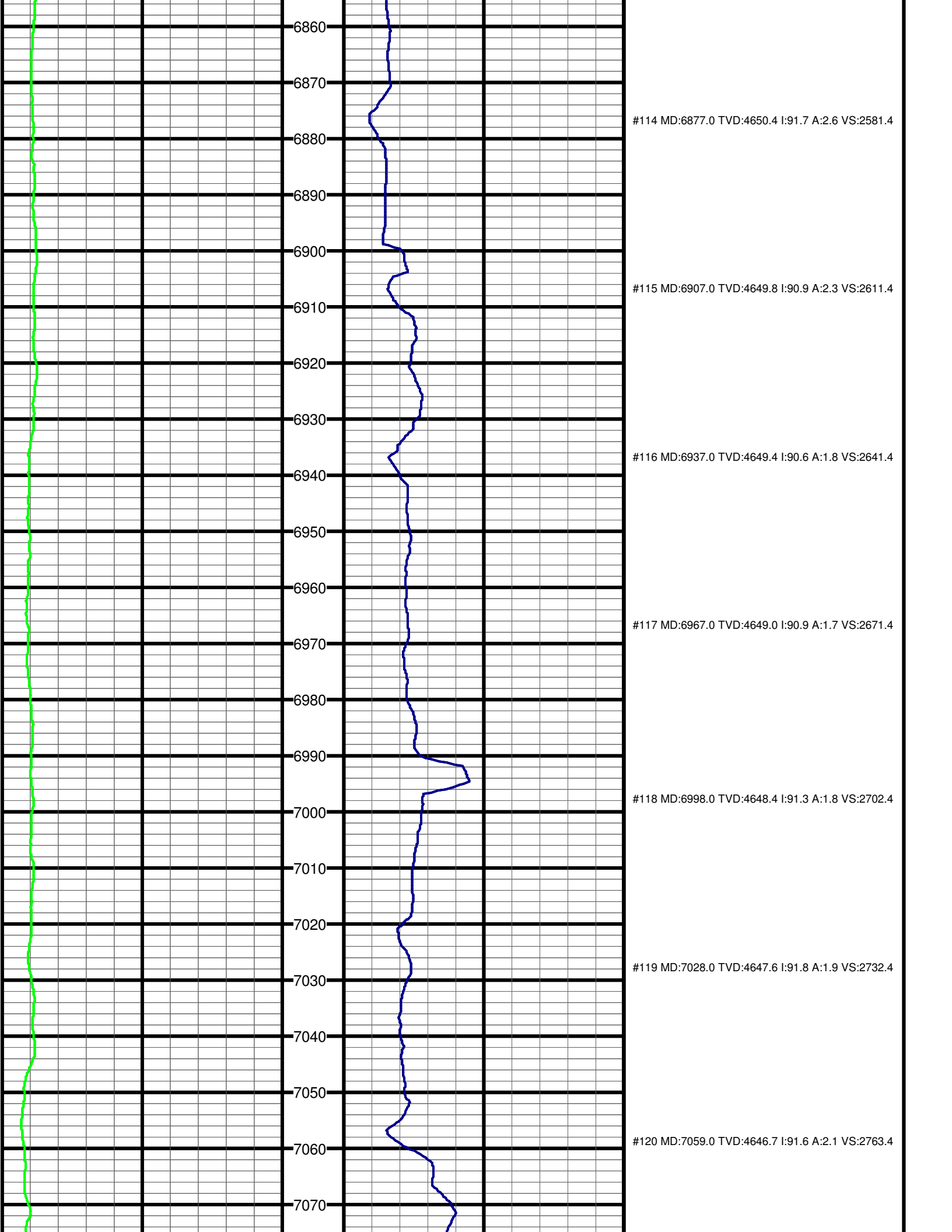


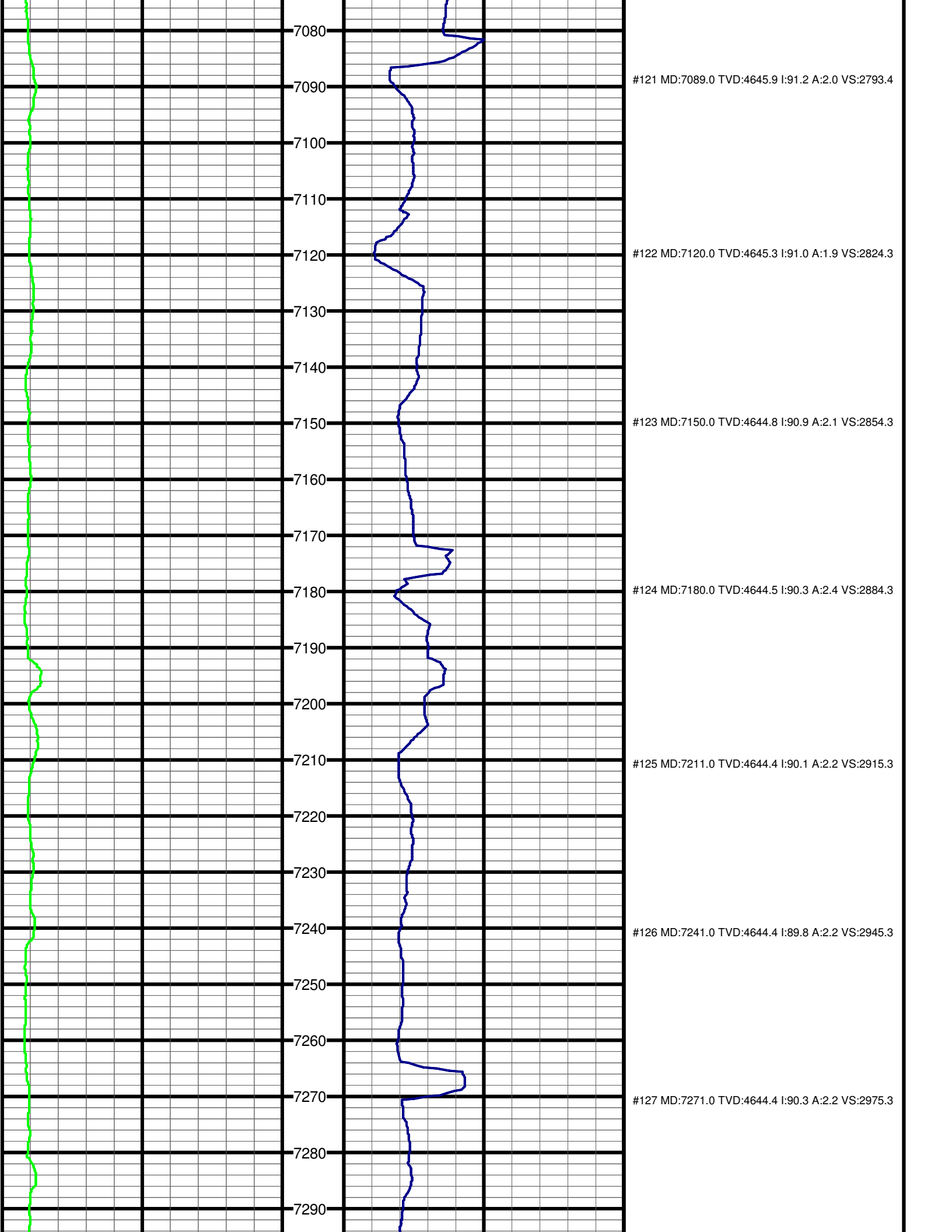


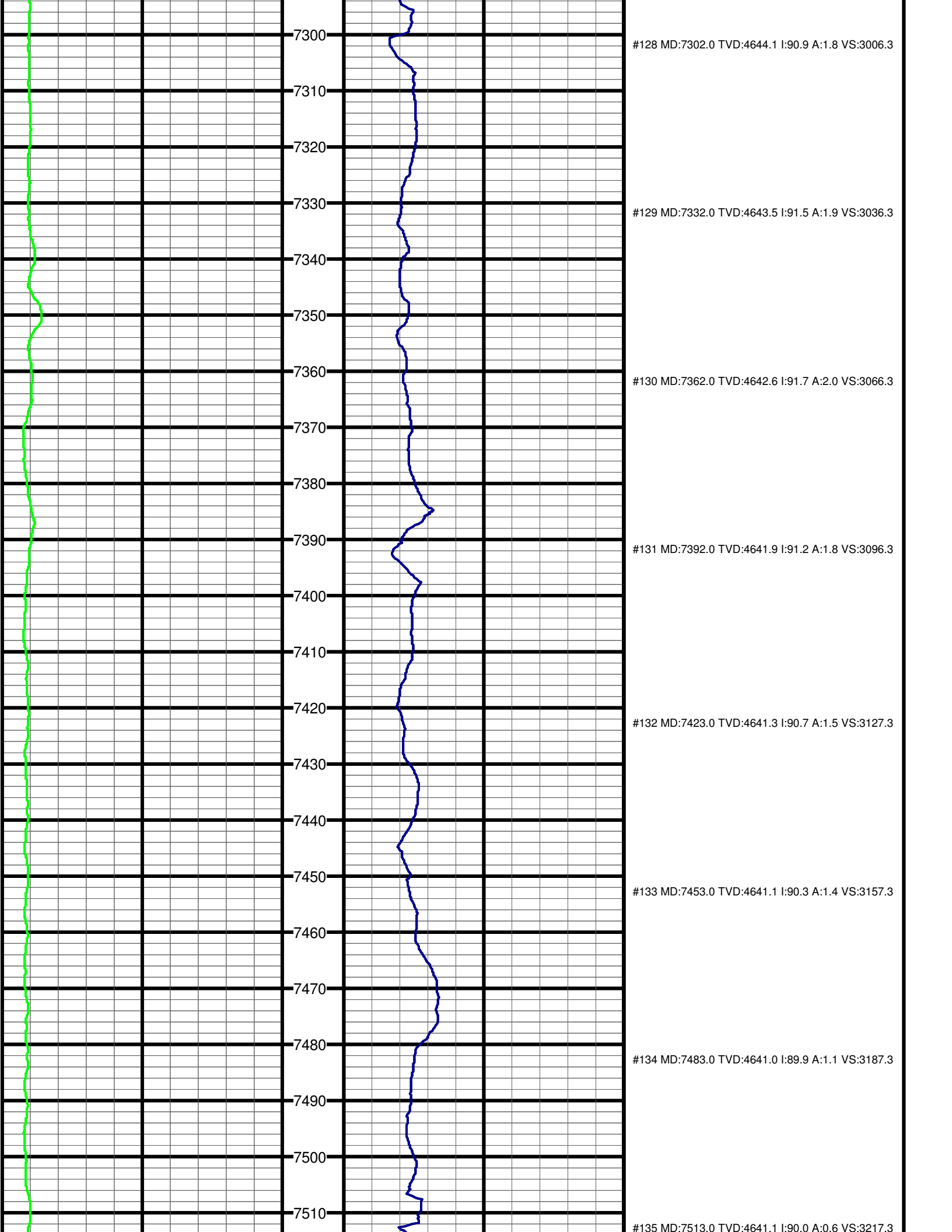


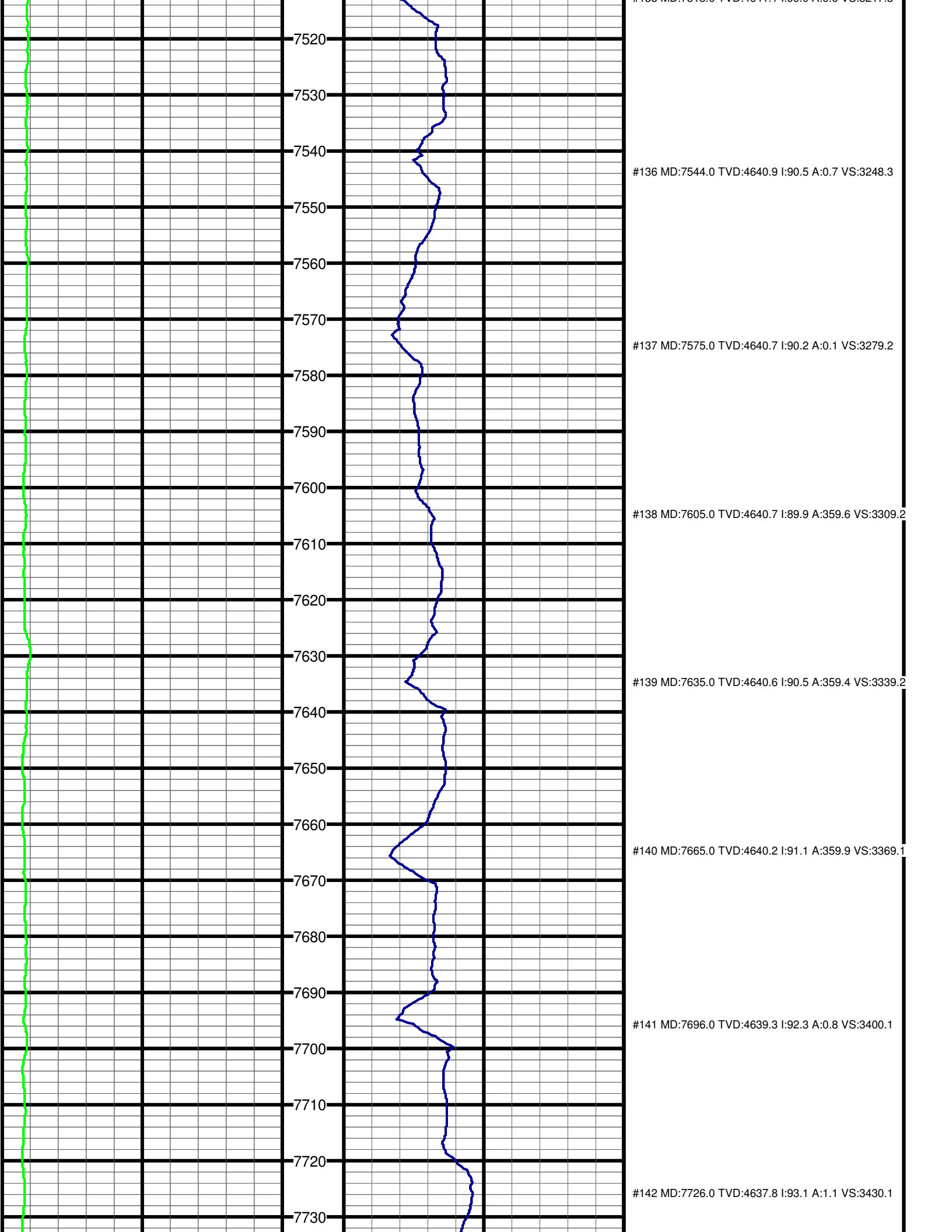


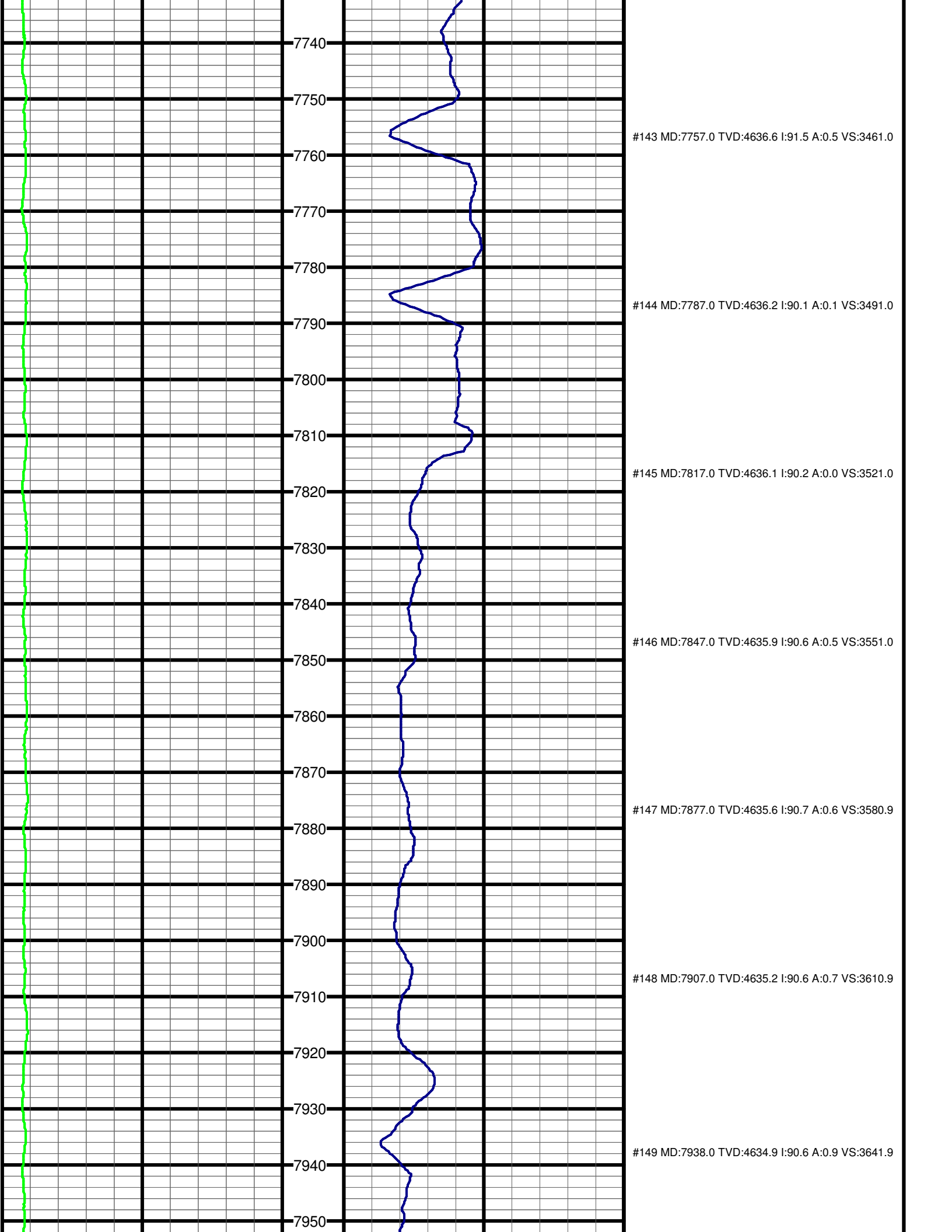


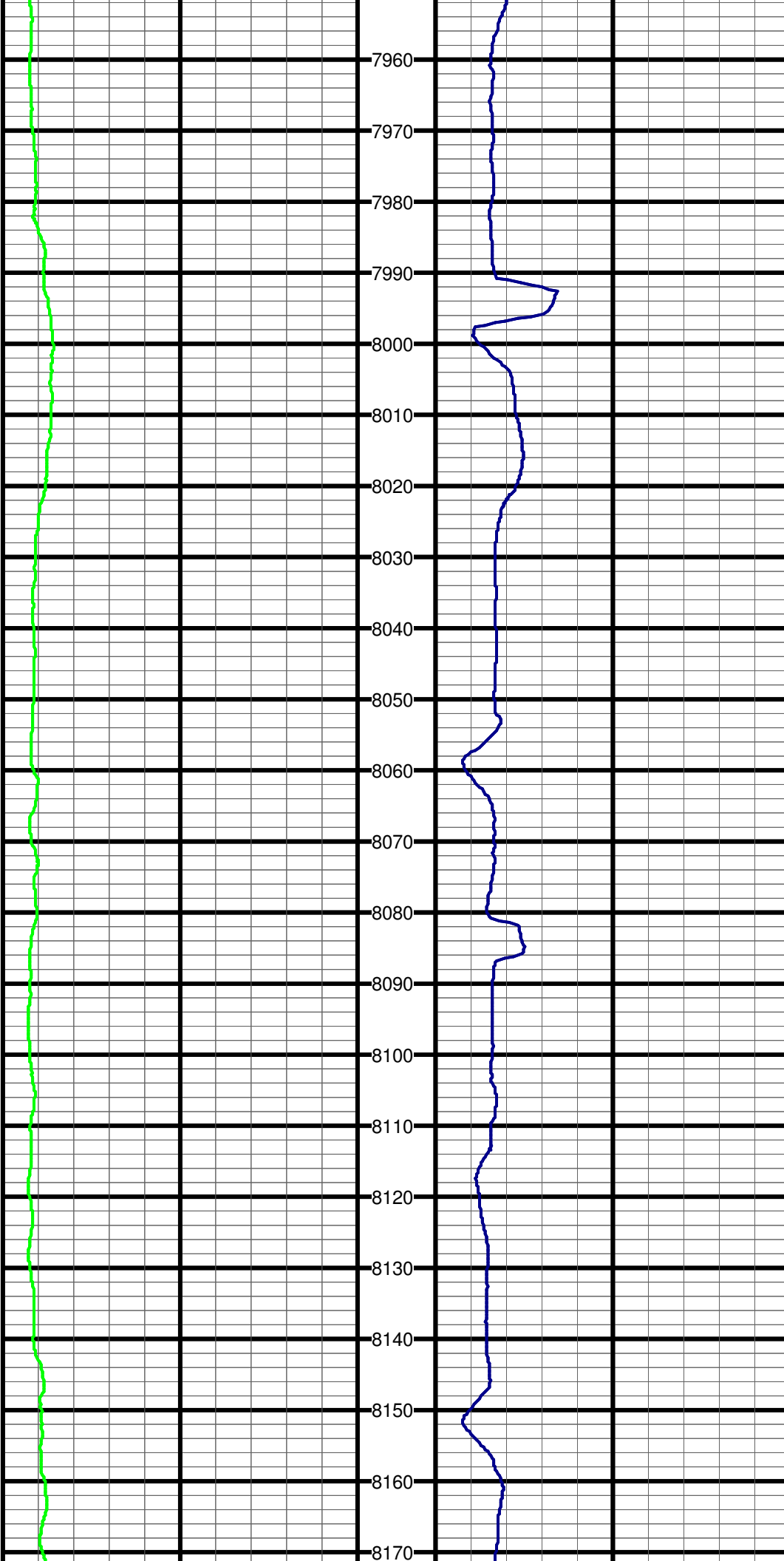












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#150 MD:7969.0 TVD:4634.6 I:90.3 A:0.7 VS:3672.9

#151 MD:7999.0 TVD:4634.5 I:90.2 A:0.4 VS:3702.9

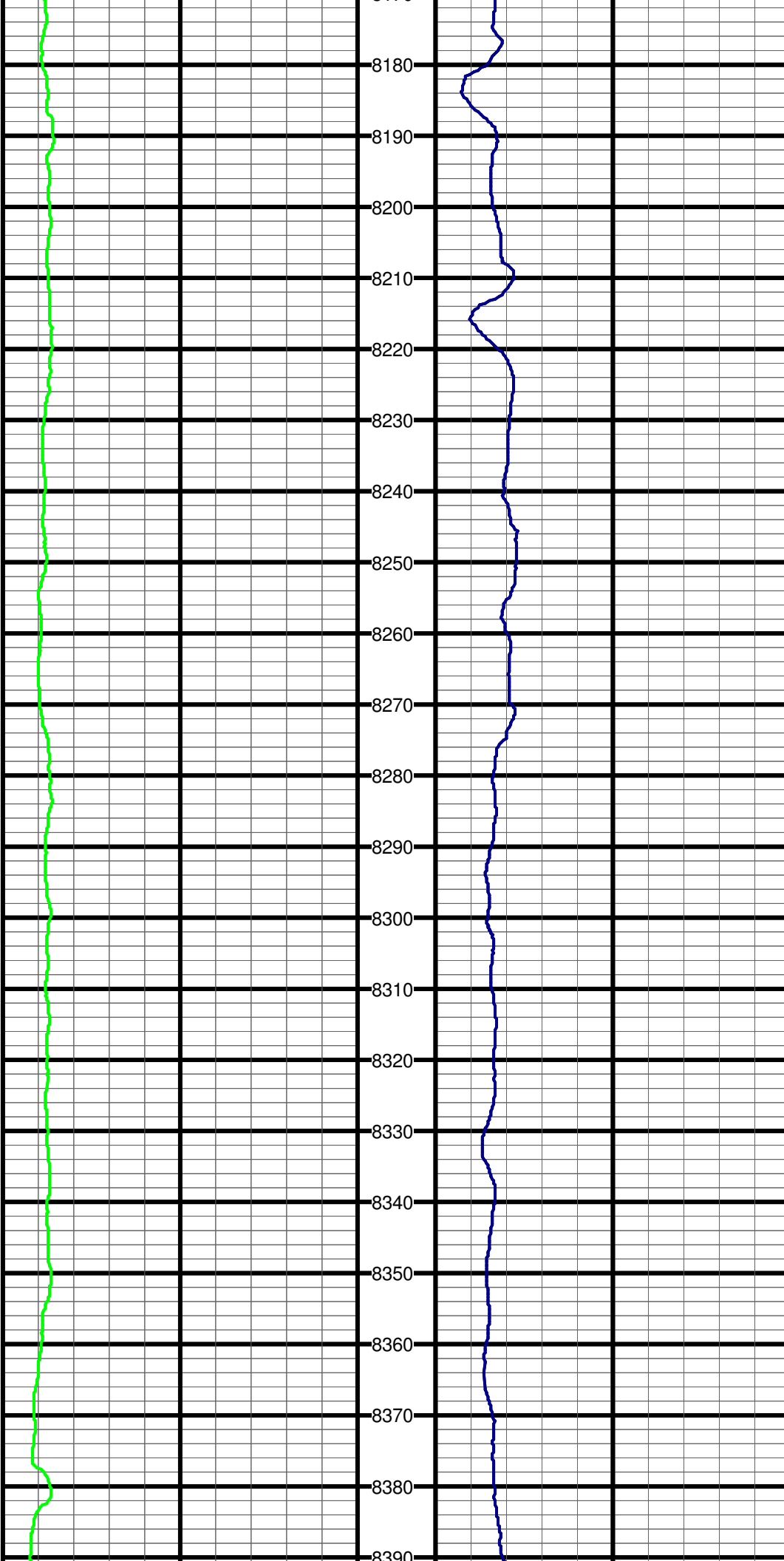
#152 MD:8029.0 TVD:4634.4 I:90.1 A:0.4 VS:3732.9

#153 MD:8060.0 TVD:4634.5 I:89.8 A:0.7 VS:3763.9

#154 MD:8092.0 TVD:4634.5 I:90.0 A:0.6 VS:3795.8

#155 MD:8123.0 TVD:4634.4 I:90.5 A:0.7 VS:3826.8

#156 MD:8155.0 TVD:4634.1 I:90.5 A:0.7 VS:3858.8



#157 MD:8187.0 TVD:4633.9 I:90.2 A:1.1 VS:3890.8

#158 MD:8218.0 TVD:4634.0 I:89.3 A:2.1 VS:3921.8

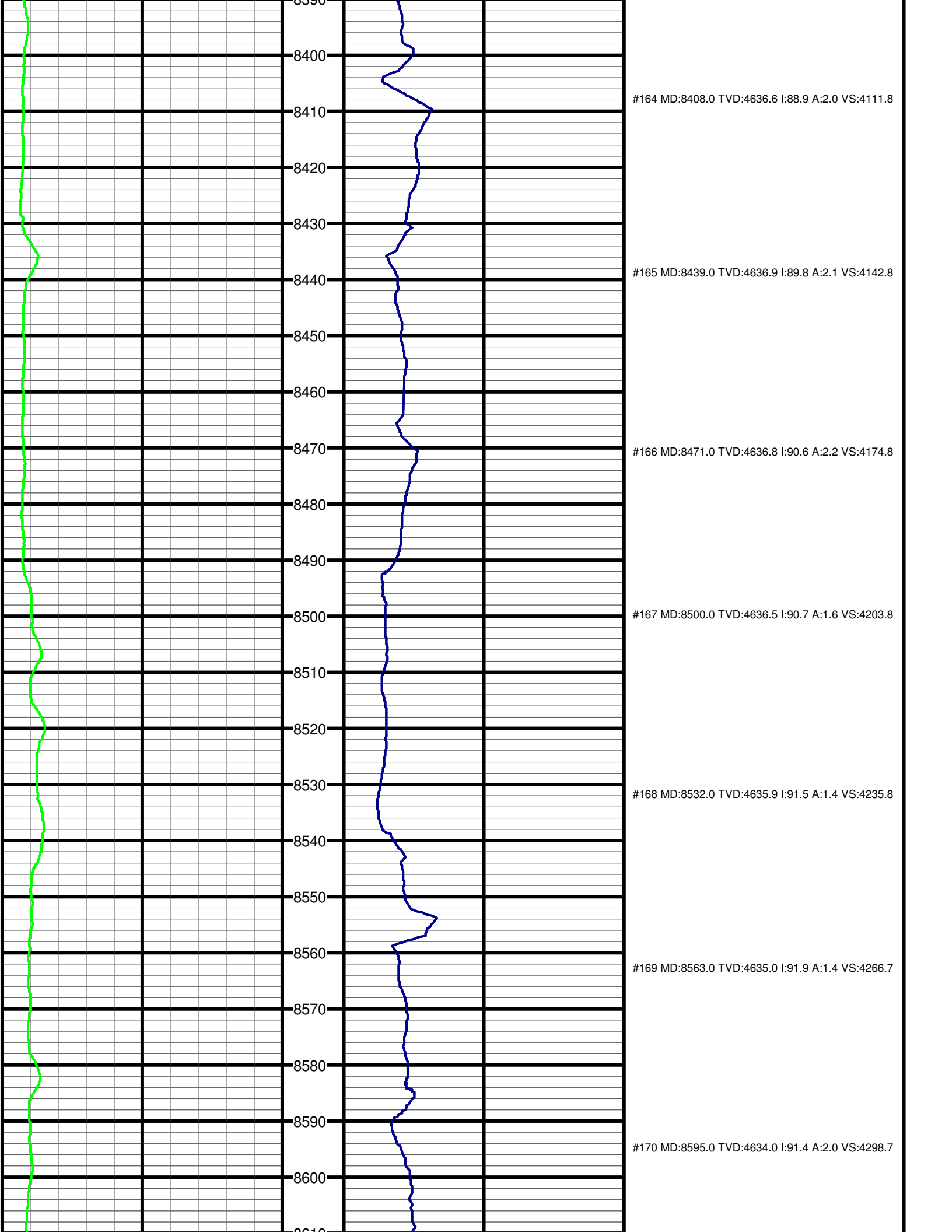
#159 MD:8249.0 TVD:4634.4 I:89.3 A:2.2 VS:3952.8

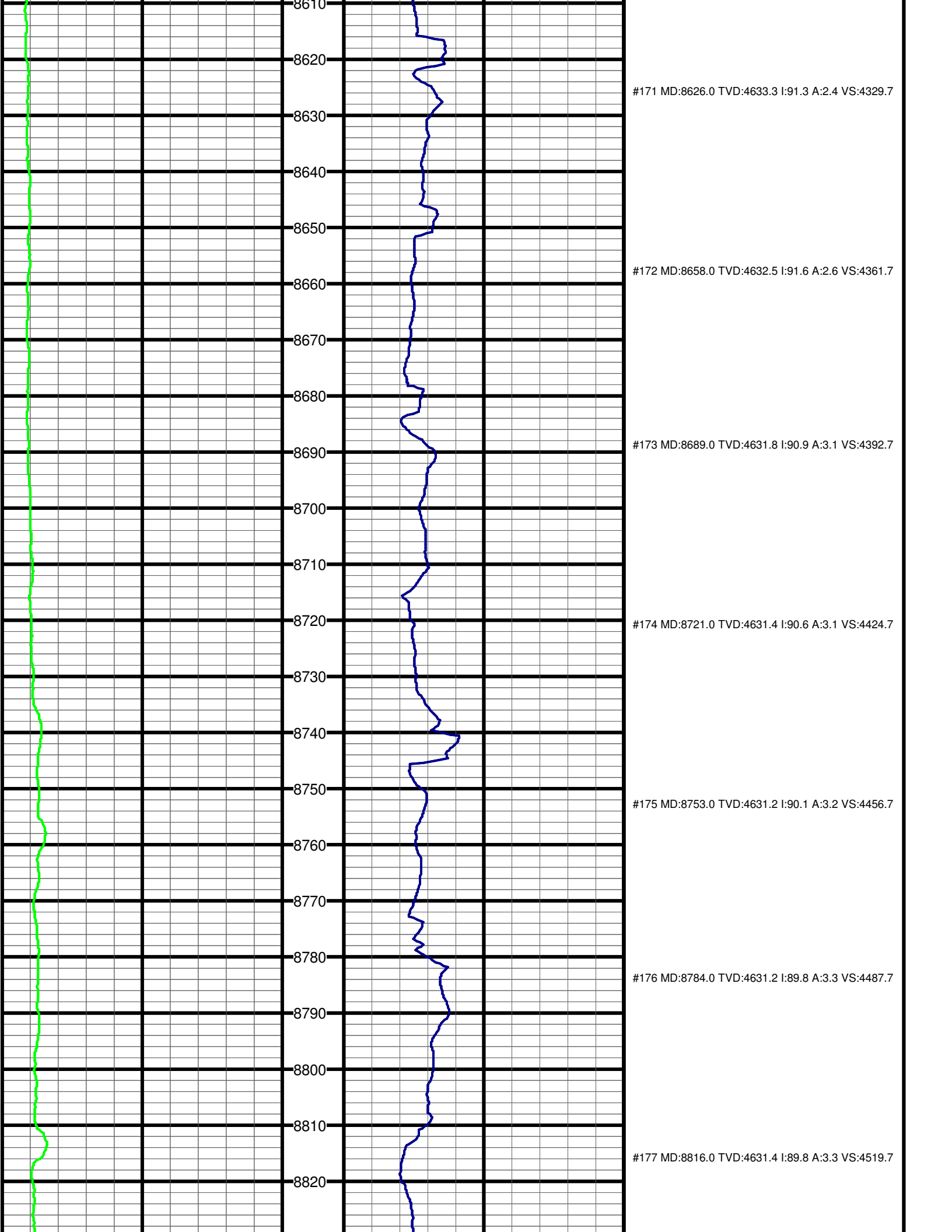
#160 MD:8281.0 TVD:4634.7 I:89.7 A:1.9 VS:3984.8

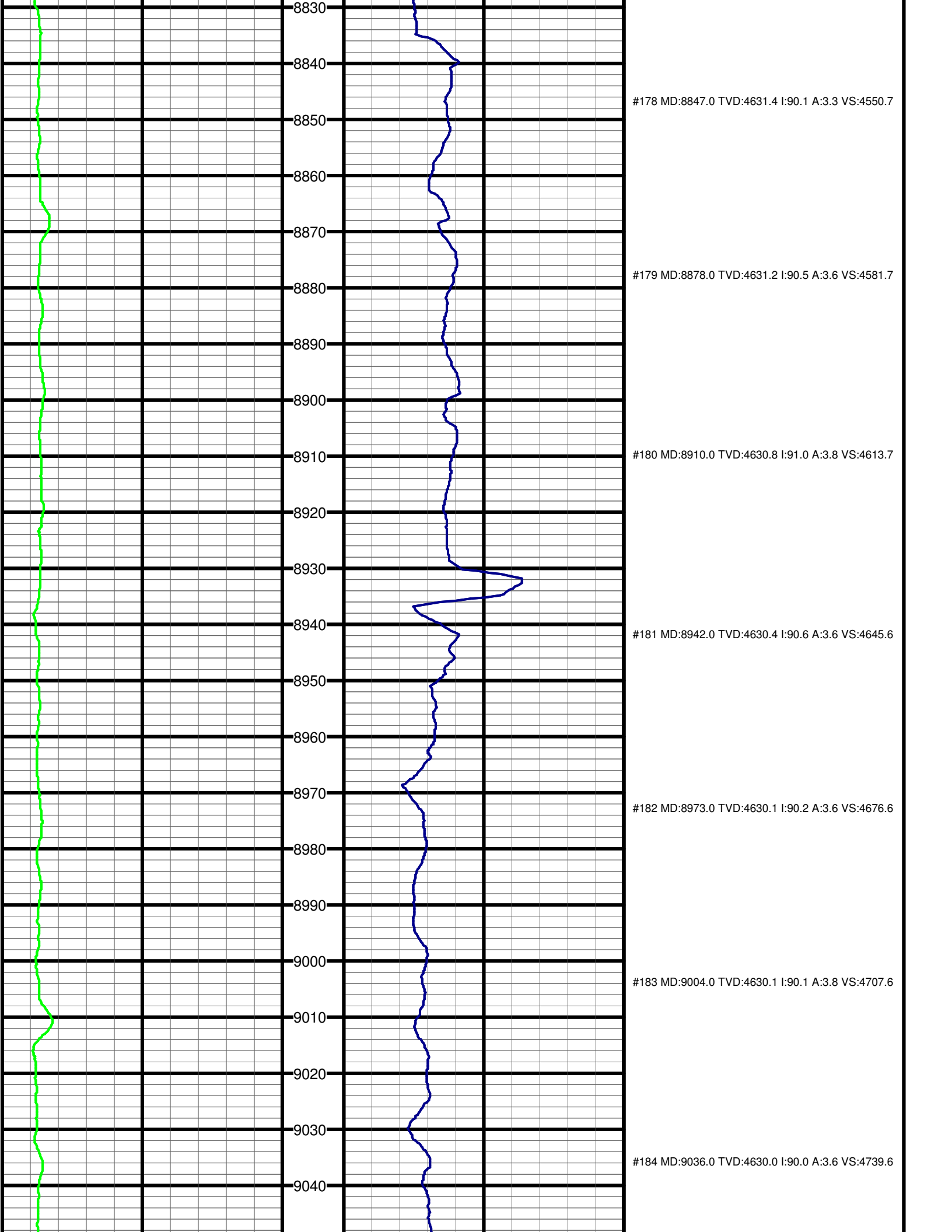
#161 MD:8313.0 TVD:4634.9 I:89.6 A:2.1 VS:4016.8

#162 MD:8344.0 TVD:4635.2 I:89.1 A:1.9 VS:4047.8

#163 MD:8376.0 TVD:4635.9 I:88.6 A:1.7 VS:4079.8









#185 MD:9067.0 TVD:4630.0 I:90.0 A:3.9 VS:4770.6

#186 MD:9099.0 TVD:4629.9 I:90.4 A:4.0 VS:4802.6

#187 MD:9130.0 TVD:4629.6 I:90.6 A:4.5 VS:4833.6

#188 MD:9160.0 TVD:4629.3 I:90.8 A:4.9 VS:4863.5

#189 MD:9192.0 TVD:4628.8 I:90.8 A:5.1 VS:4895.5

#190 MD:9223.0 TVD:4628.4 I:90.8 A:5.3 VS:4926.5

#191 MD:9255.0 TVD:4627.9 I:90.9 A:5.0 VS:4958.4

