Digital Drilling Data Systems, LLC

GeoLogPlot

(Scale: 5":100' (100'))

Company: Cathedral Energy Servicces
Well: Chavez 4A=4H
Field: DJ Basin
Well ID: 05 123 35476 00
Job Number: 125406
Location: Hudson
Operator 1: Encana Oil & Gas
Operator 2: Chris Mcain

State: CO
County:
Country: US

Elev KB: 4928
Elev DF: 13
Elev GL: 4915

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

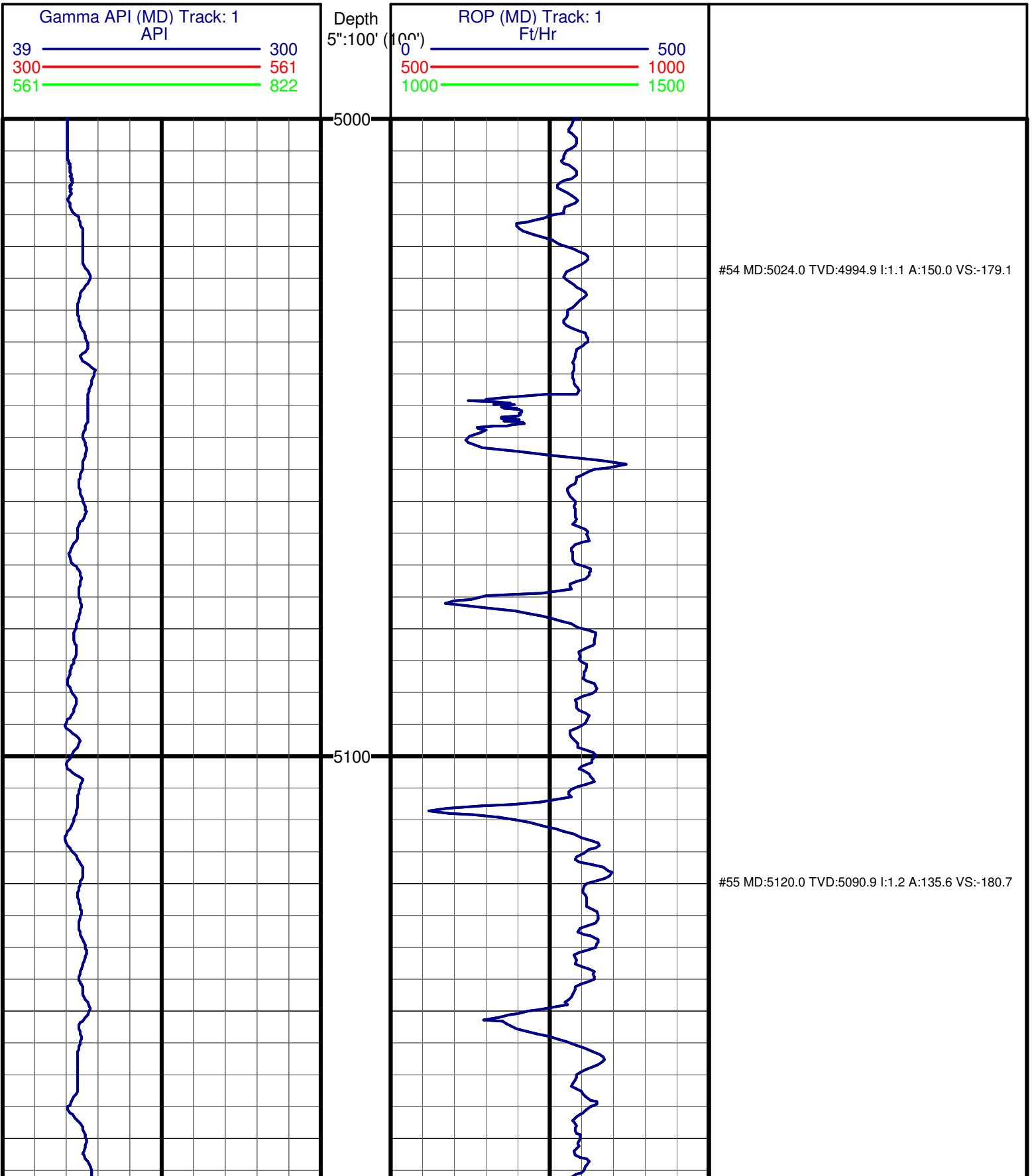
Hole Data			Casing Record		
Size	**From**	**To**	**Size**	**From**	**To**
12.25	0	978	9.625	0	968
8.75	978	7342	7.0	0	7321
6.125	7342	11775	4.5	0	11760

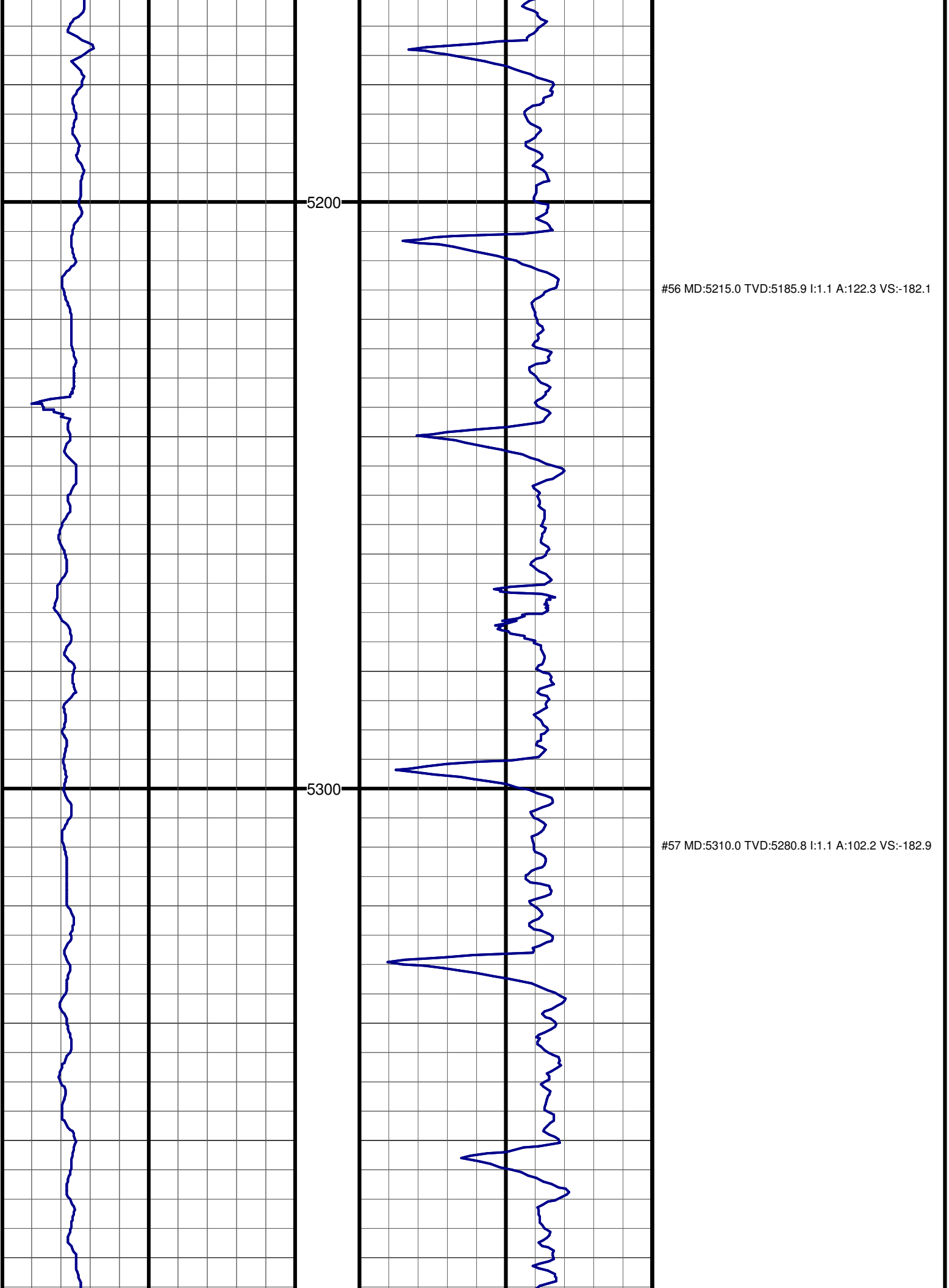
Tool Run Data	Run #1	Run #2	Run #3	Run #4	Run #5
Tool S/N	1278	1278	1278	1402	1278
Cal Factor					
Gamma Offset	38.26	37.89	37.63	38.26	35.68
Start Depth	0	978	6983	7342	10910
Start Date	6/14/12	6/16/12	6/19/12	6/23/12	6/26/12
Start Time	12:00	13:30	17:30	03:00	23:30
End Depth	978	6983	7342	10910	11775
End Date	6/15/12	6/19/12	6/21/12	6/26/12	6/28/12
End Time	20:00	15:00	4:00	21:30	19:00

Tool Run Data	Run #6	Run #7	Run #8	Run #9	Run #10
Tool S/N					
Cal Factor					
Offset					
Start Depth					
Start Date					
Start Time					
End Depth					
End Date					
End Time					

Tool Run Data	Run #11	Run #12	Run #13	Run #14	Run #15
Tool S/N					
Cal Factor					
Offset					
Start Depth					
Start Date					
Start Time					
End Depth					

End Date					
End Time					

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5300
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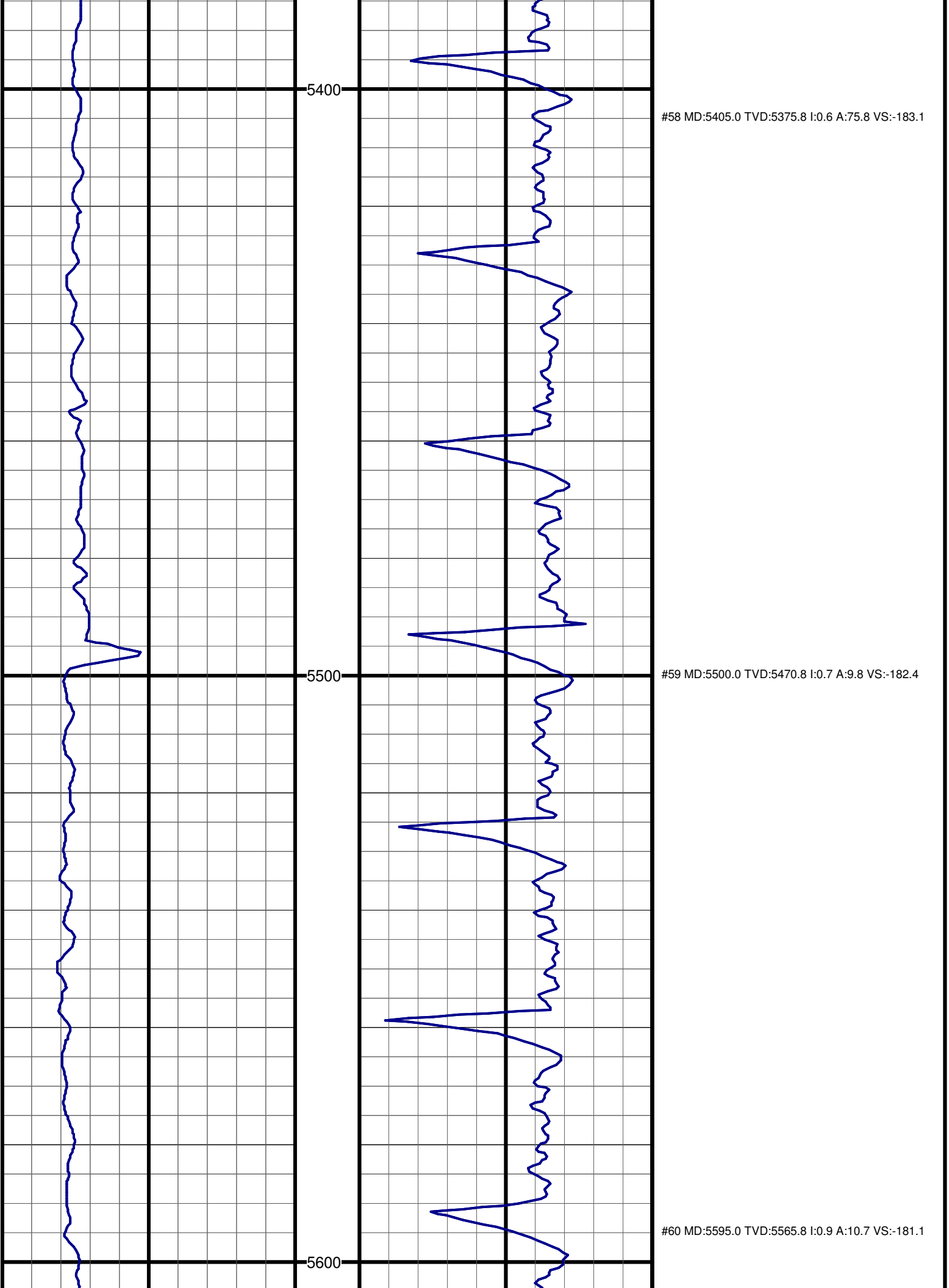
#57 MD:5310.0 TVD:5280.8 I:1.1 A:102.2 VS:-182.9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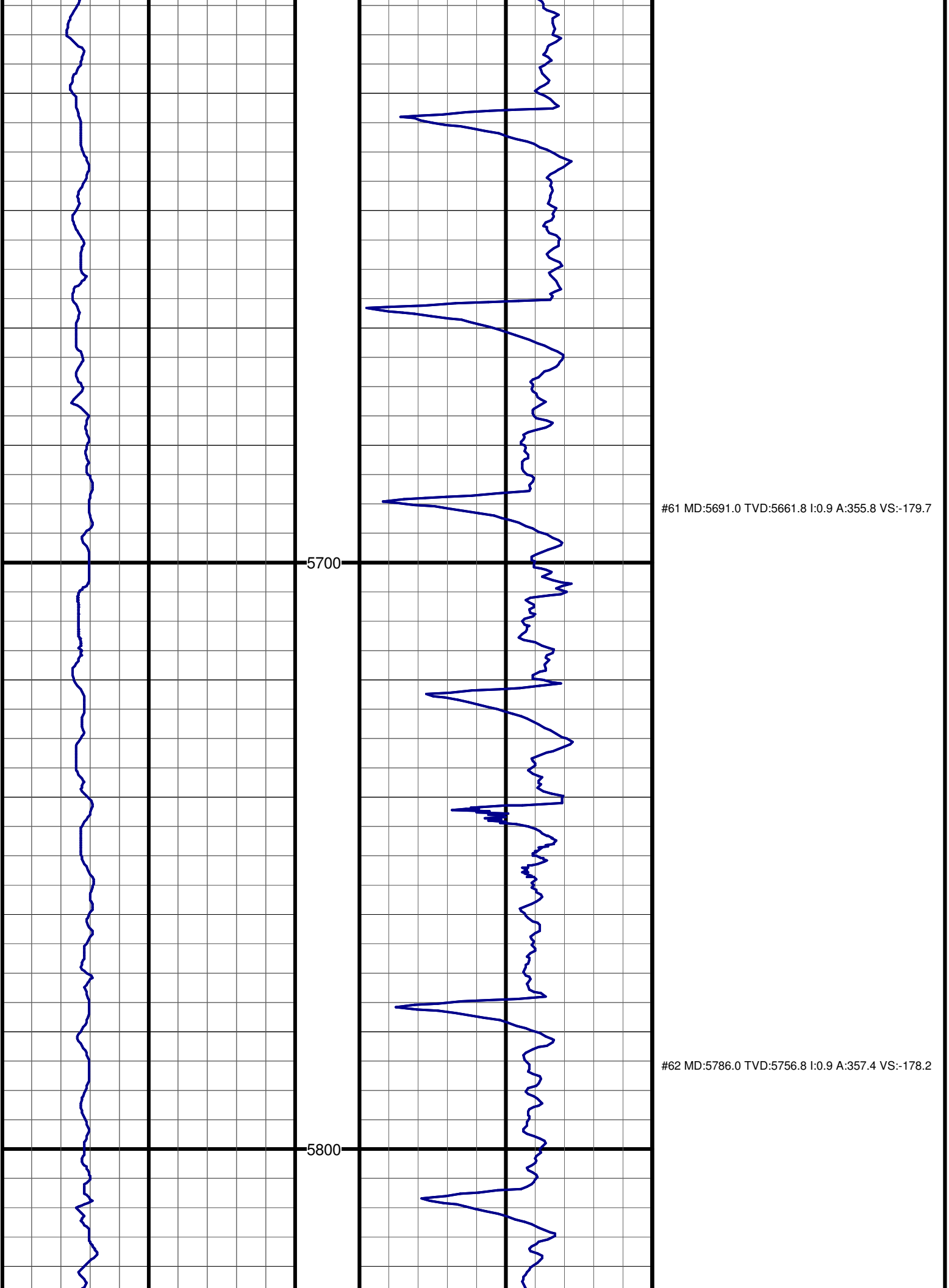
5500
5600
#58 MD:5405.0 TVD:5375.8 I:0.6 A:75.8 VS:-183.1
#59 MD:5500.0 TVD:5470.8 I:0.7 A:9.8 VS:-182.4
#60 MD:5595.0 TVD:5565.8 I:0.9 A:10.7 VS:-181.1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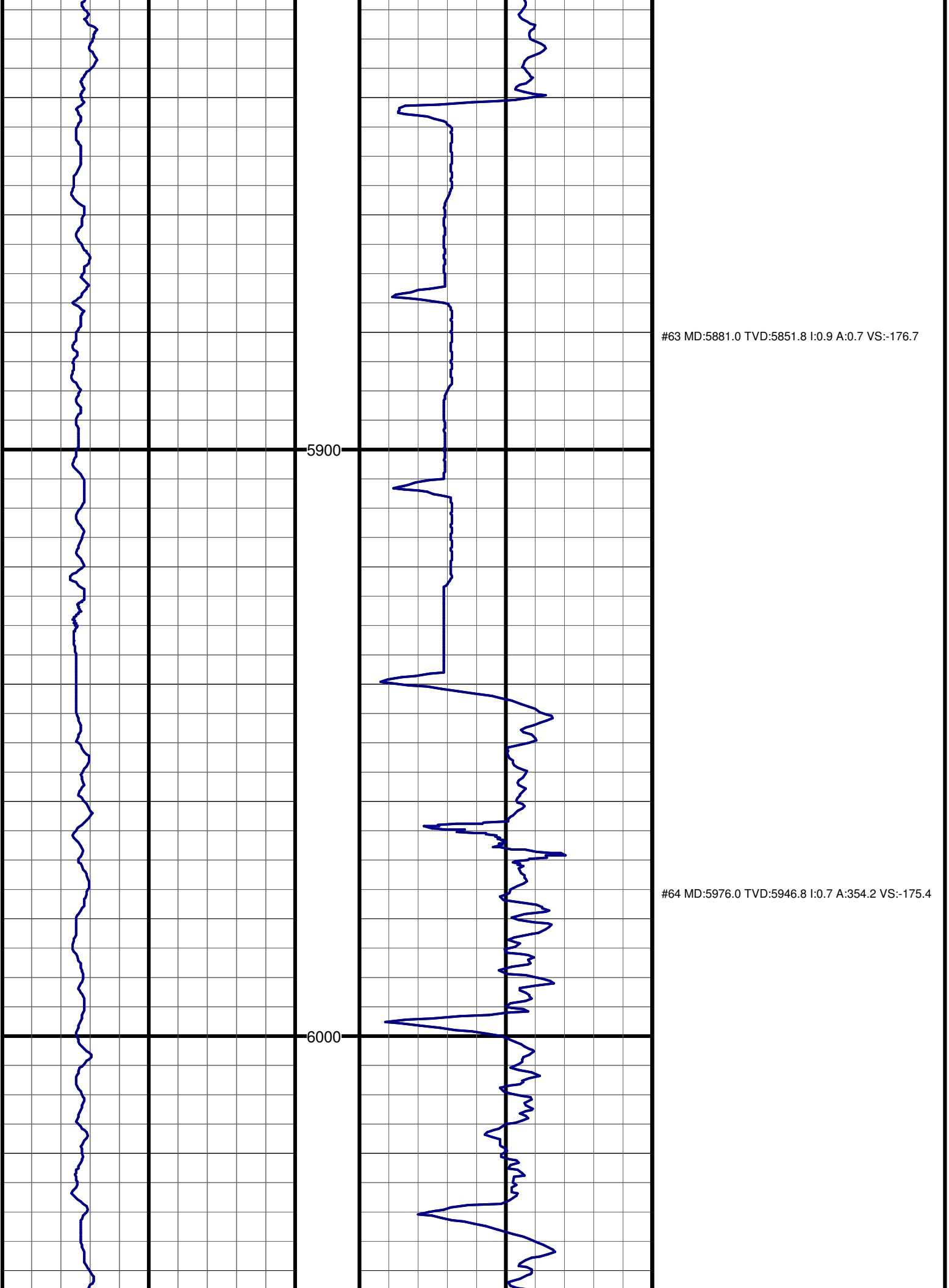
5800
#61 MD:5691.0 TVD:5661.8 I:0.9 A:355.8 VS:-179.7
#62 MD:5786.0 TVD:5756.8 I:0.9 A:357.4 VS:-178.2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6000
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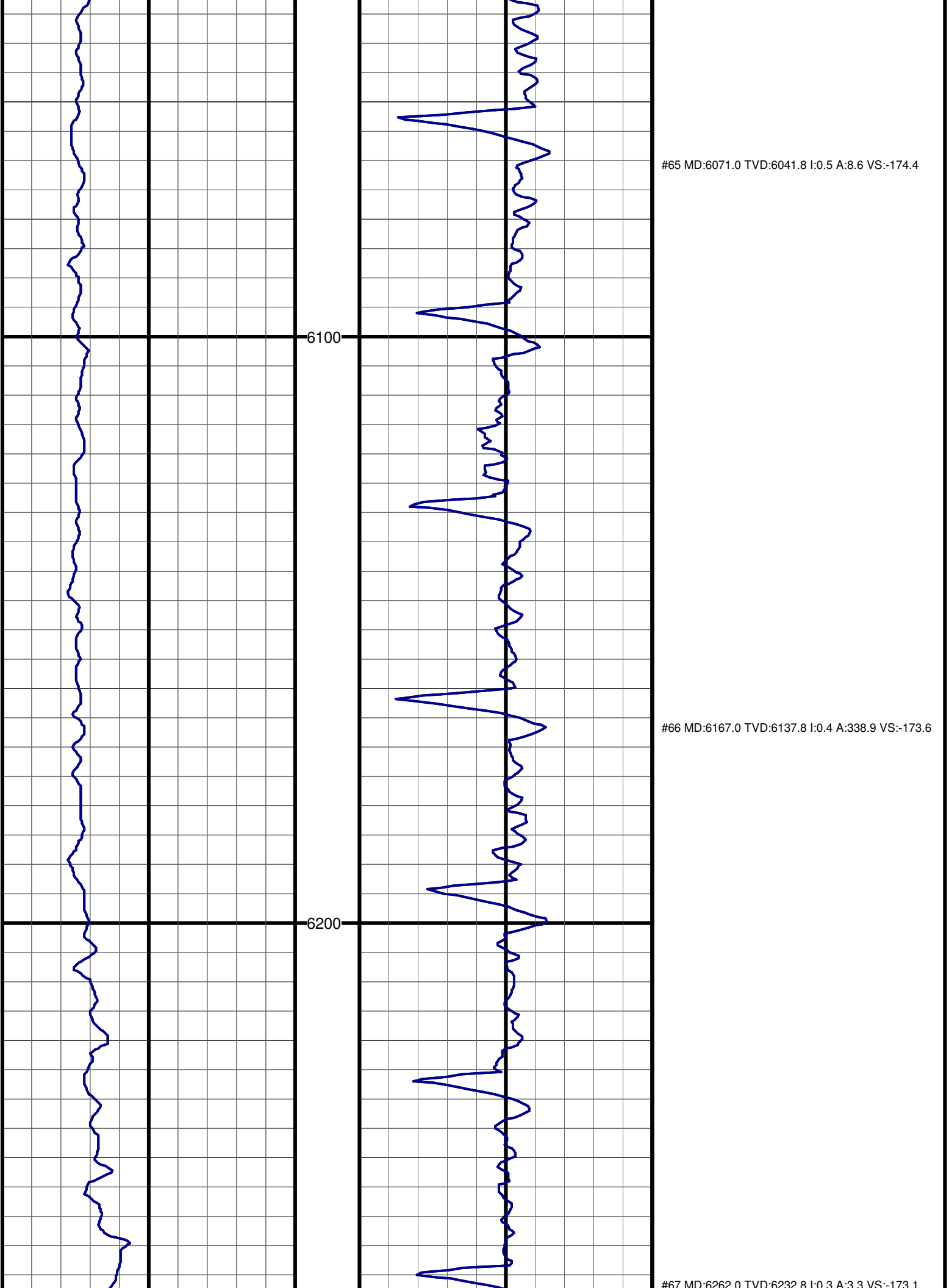
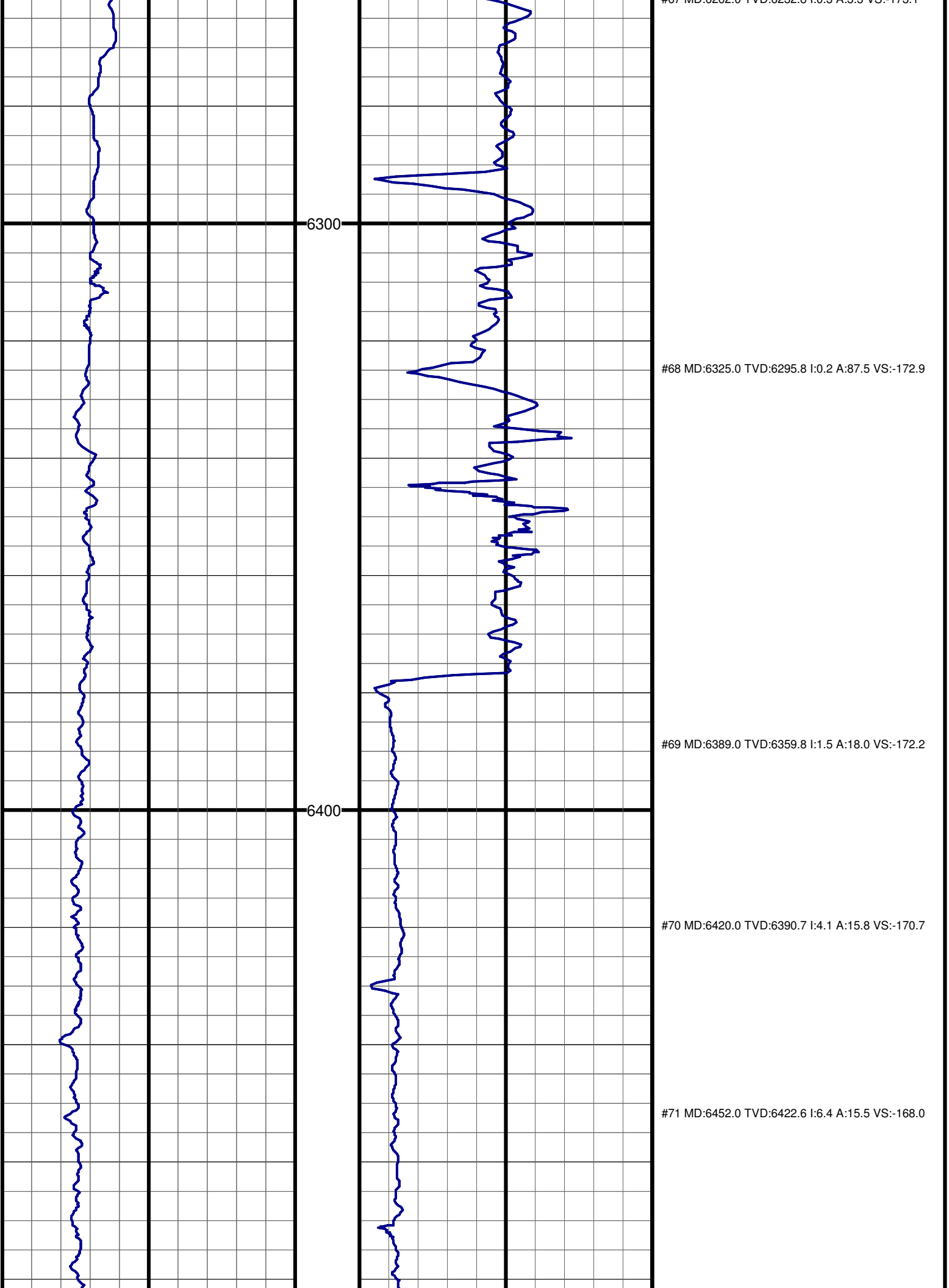
#64 MD:5976.0 TVD:5946.8 I:0.7 A:354.2 VS:-175.4


6100
6200
#65 MD:6071.0 TVD:6041.8 I:0.5 A:8.6 VS:-174.4
#66 MD:6167.0 TVD:6137.8 I:0.4 A:338.9 VS:-173.6
#67 MD:6262.0 TVD:6232.8 I:0.3 A:3.3 VS:-173.1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6400
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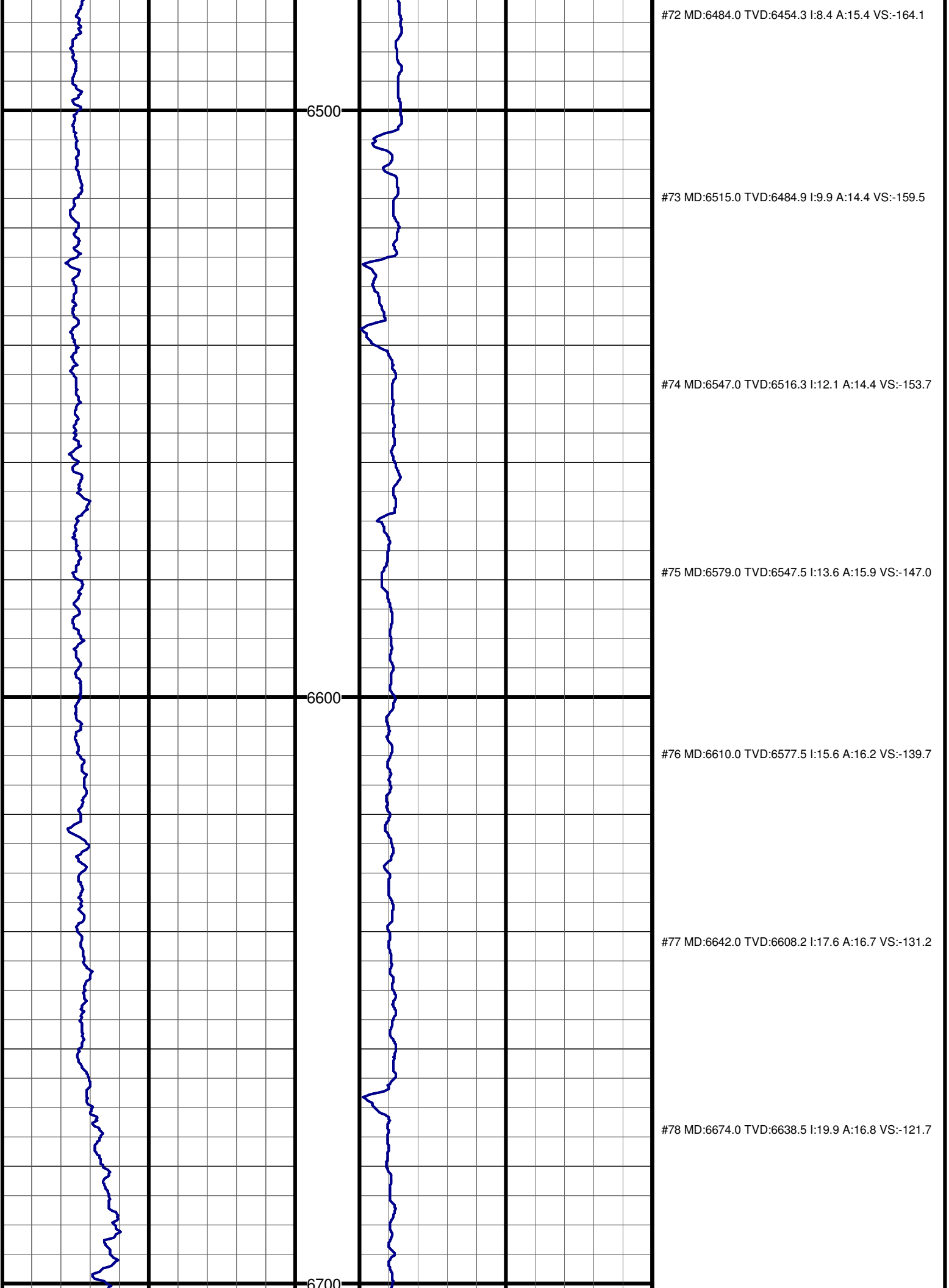
#69 MD:6389.0 TVD:6359.8 I:1.5 A:18.0 VS:-172.2
#70 MD:6420.0 TVD:6390.7 I:4.1 A:15.8 VS:-170.7
#71 MD:6452.0 TVD:6422.6 I:6.4 A:15.5 VS:-168.0



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#73 MD:6515.0 TVD:6484.9 I:9.9 A:14.4 VS:-159.5

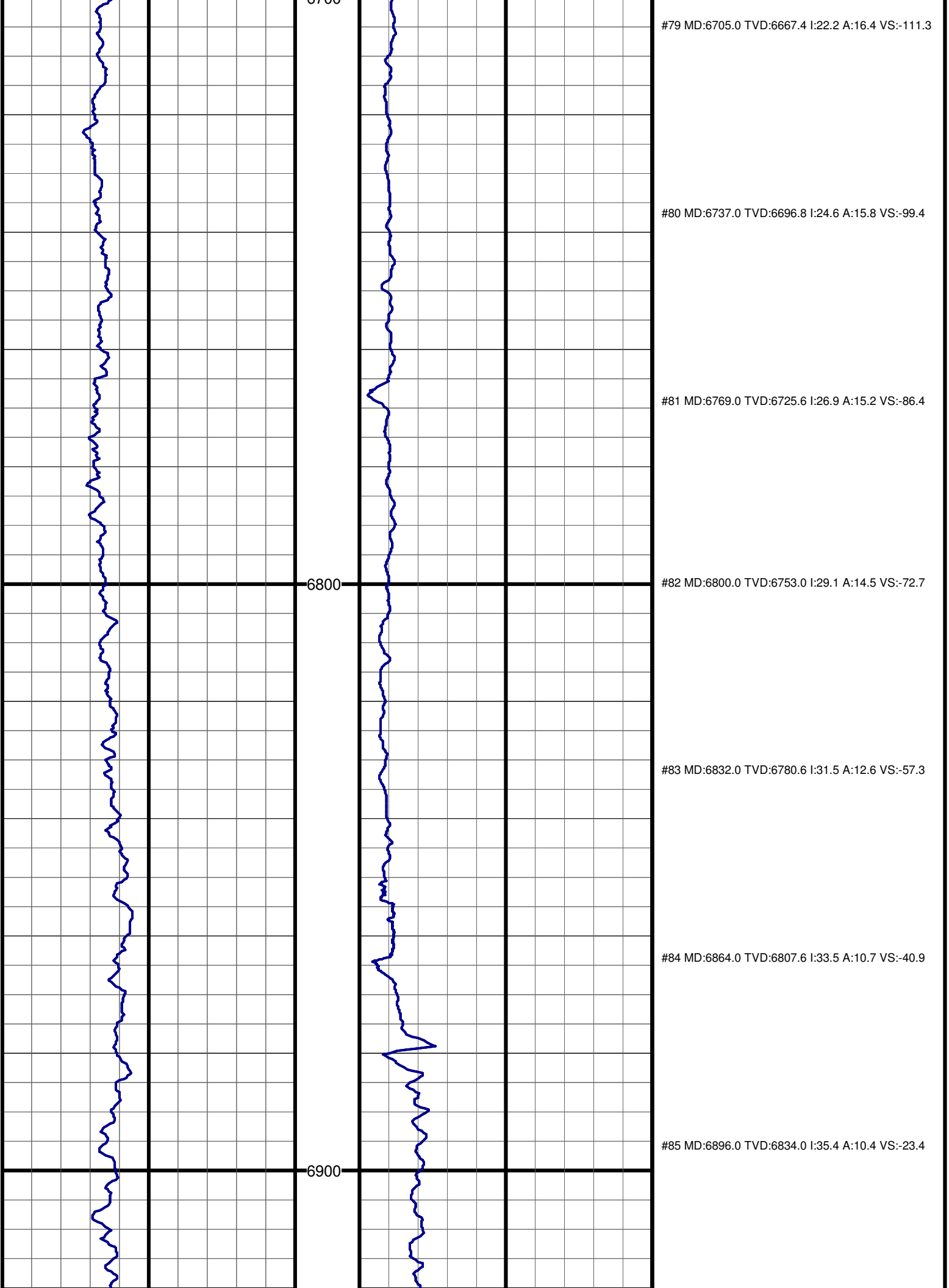
#74 MD:6547.0 TVD:6516.3 I:12.1 A:14.4 VS:-153.7

#75 MD:6579.0 TVD:6547.5 I:13.6 A:15.9 VS:-147.0

#76 MD:6610.0 TVD:6577.5 I:15.6 A:16.2 VS:-139.7

#77 MD:6642.0 TVD:6608.2 I:17.6 A:16.7 VS:-131.2

#78 MD:6674.0 TVD:6638.5 I:19.9 A:16.8 VS:-121.7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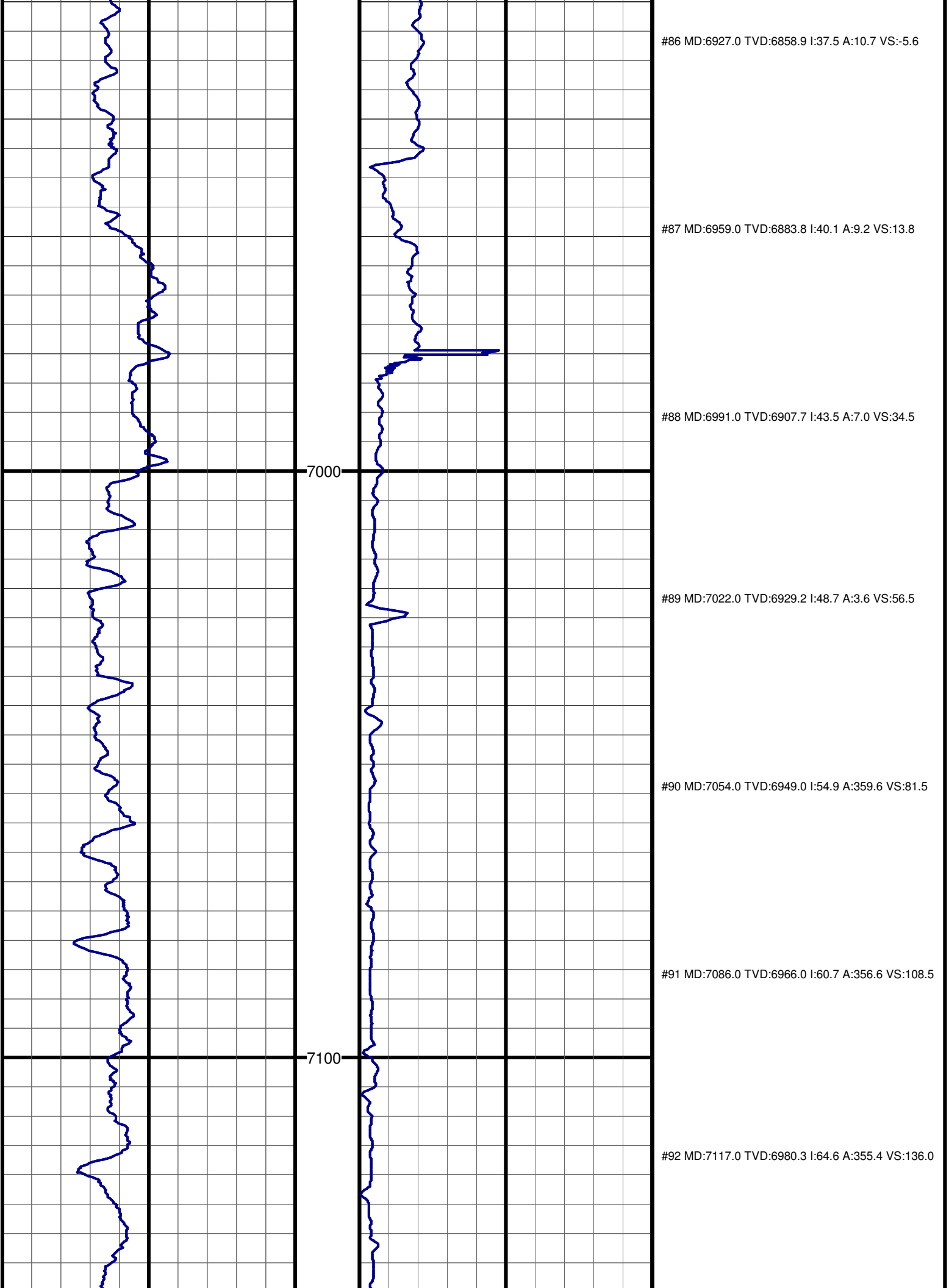
#80 MD:6737.0 TVD:6696.8 I:24.6 A:15.8 VS:-99.4
#81 MD:6769.0 TVD:6725.6 I:26.9 A:15.2 VS:-86.4
6800
#82 MD:6800.0 TVD:6753.0 I:29.1 A:14.5 VS:-72.7
#83 MD:6832.0 TVD:6780.6 I:31.5 A:12.6 VS:-57.3
#84 MD:6864.0 TVD:6807.6 I:33.5 A:10.7 VS:-40.9
#85 MD:6896.0 TVD:6834.0 I:35.4 A:10.4 VS:-23.4
6900


#86 MD:6927.0 TVD:6858.9 I:37.5 A:10.7 VS:-5.6
#87 MD:6959.0 TVD:6883.8 I:40.1 A:9.2 VS:13.8
#88 MD:6991.0 TVD:6907.7 I:43.5 A:7.0 VS:34.5
7000
#89 MD:7022.0 TVD:6929.2 I:48.7 A:3.6 VS:56.5
#90 MD:7054.0 TVD:6949.0 I:54.9 A:359.6 VS:81.5
#91 MD:7086.0 TVD:6966.0 I:60.7 A:356.6 VS:108.5
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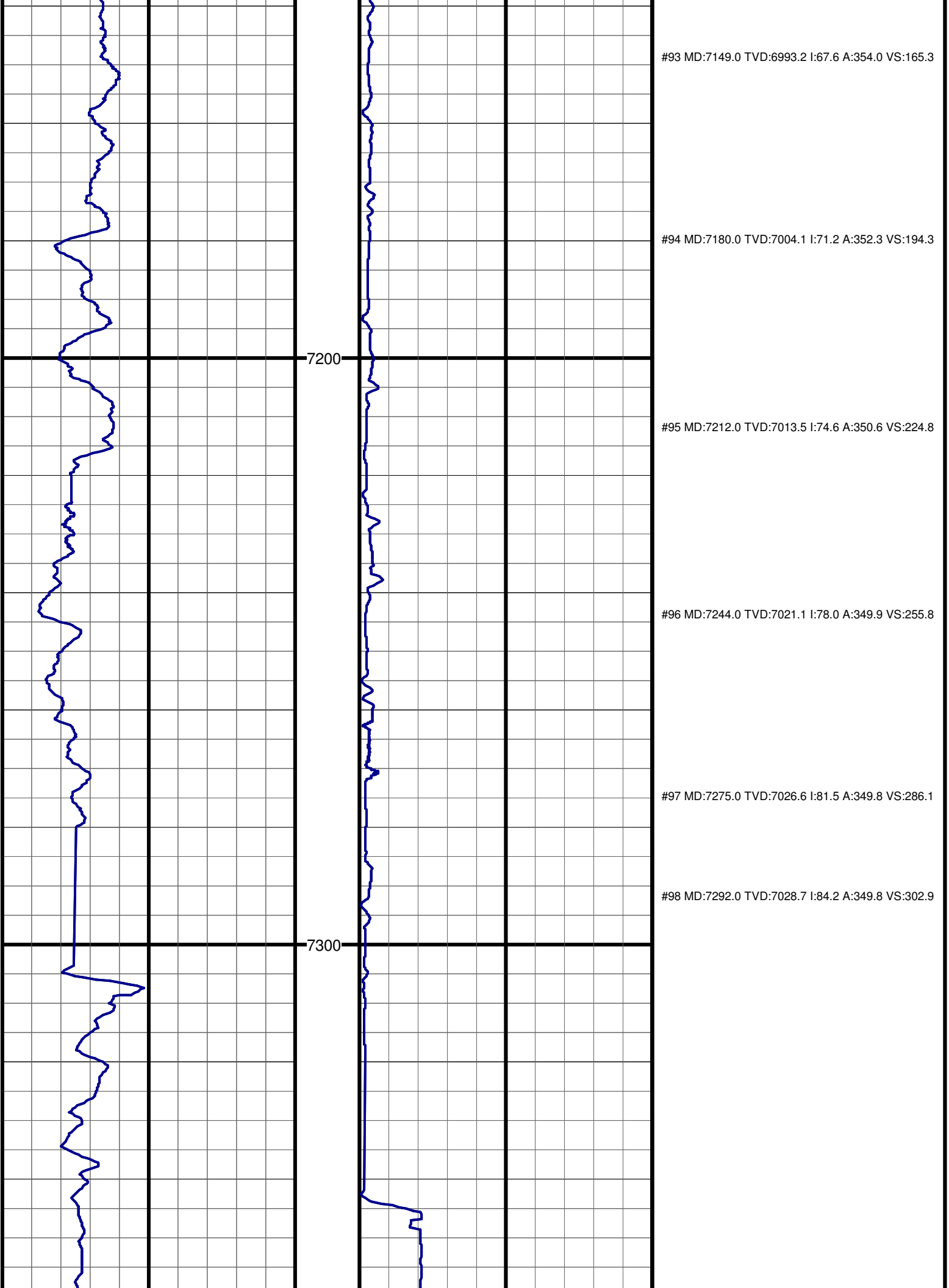
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#94 MD:7180.0 TVD:7004.1 I:71.2 A:352.3 VS:194.3
7200
#95 MD:7212.0 TVD:7013.5 I:74.6 A:350.6 VS:224.8
#96 MD:7244.0 TVD:7021.1 I:78.0 A:349.9 VS:255.8
#97 MD:7275.0 TVD:7026.6 I:81.5 A:349.8 VS:286.1
#98 MD:7292.0 TVD:7028.7 I:84.2 A:349.8 VS:302.9
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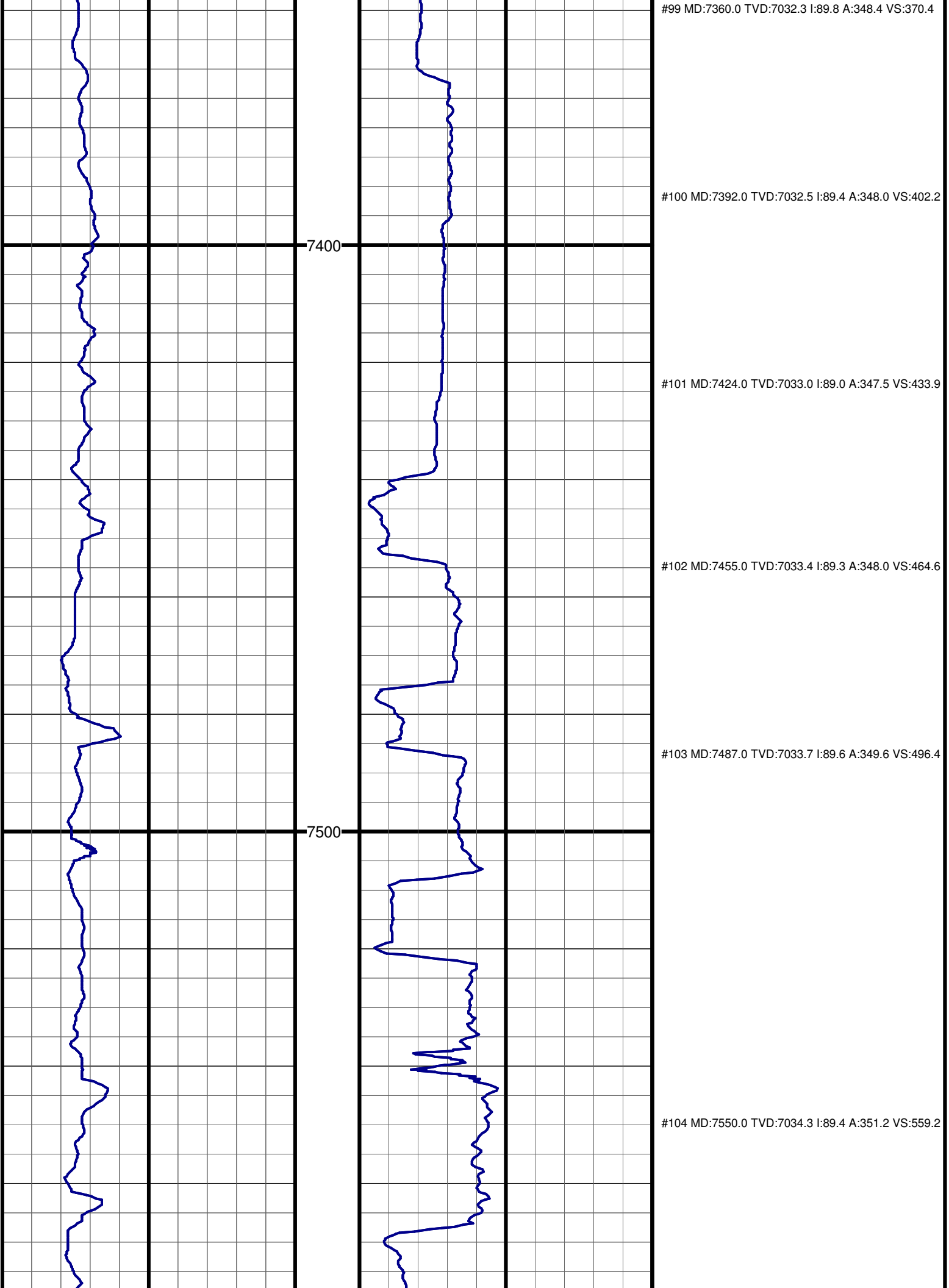
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#101 MD:7424.0 TVD:7033.0 I:89.0 A:347.5 VS:433.9
#102 MD:7455.0 TVD:7033.4 I:89.3 A:348.0 VS:464.6
#103 MD:7487.0 TVD:7033.7 I:89.6 A:349.6 VS:496.4
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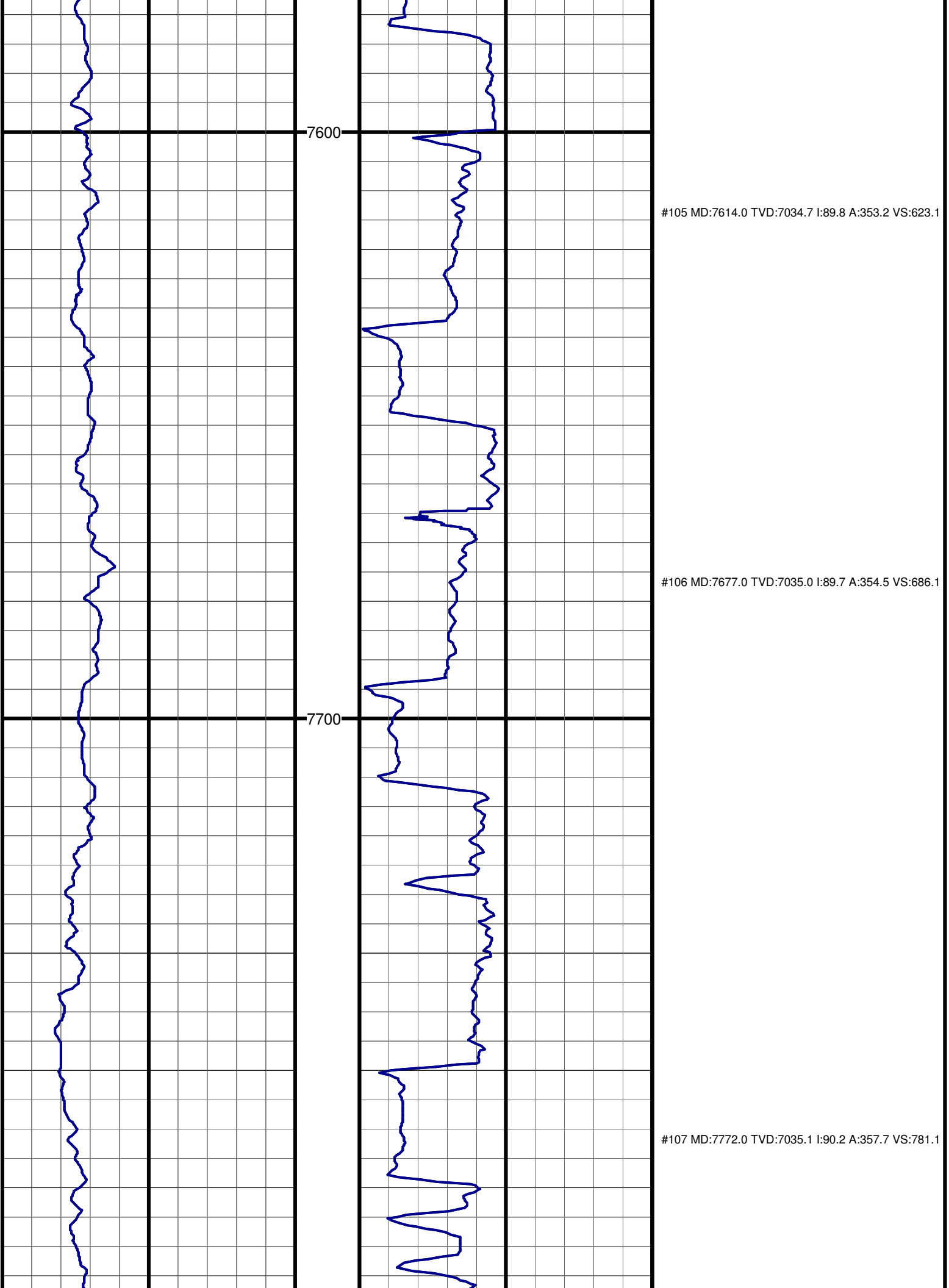
7600
7700
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#106 MD:7677.0 TVD:7035.0 I:89.7 A:354.5 VS:686.1
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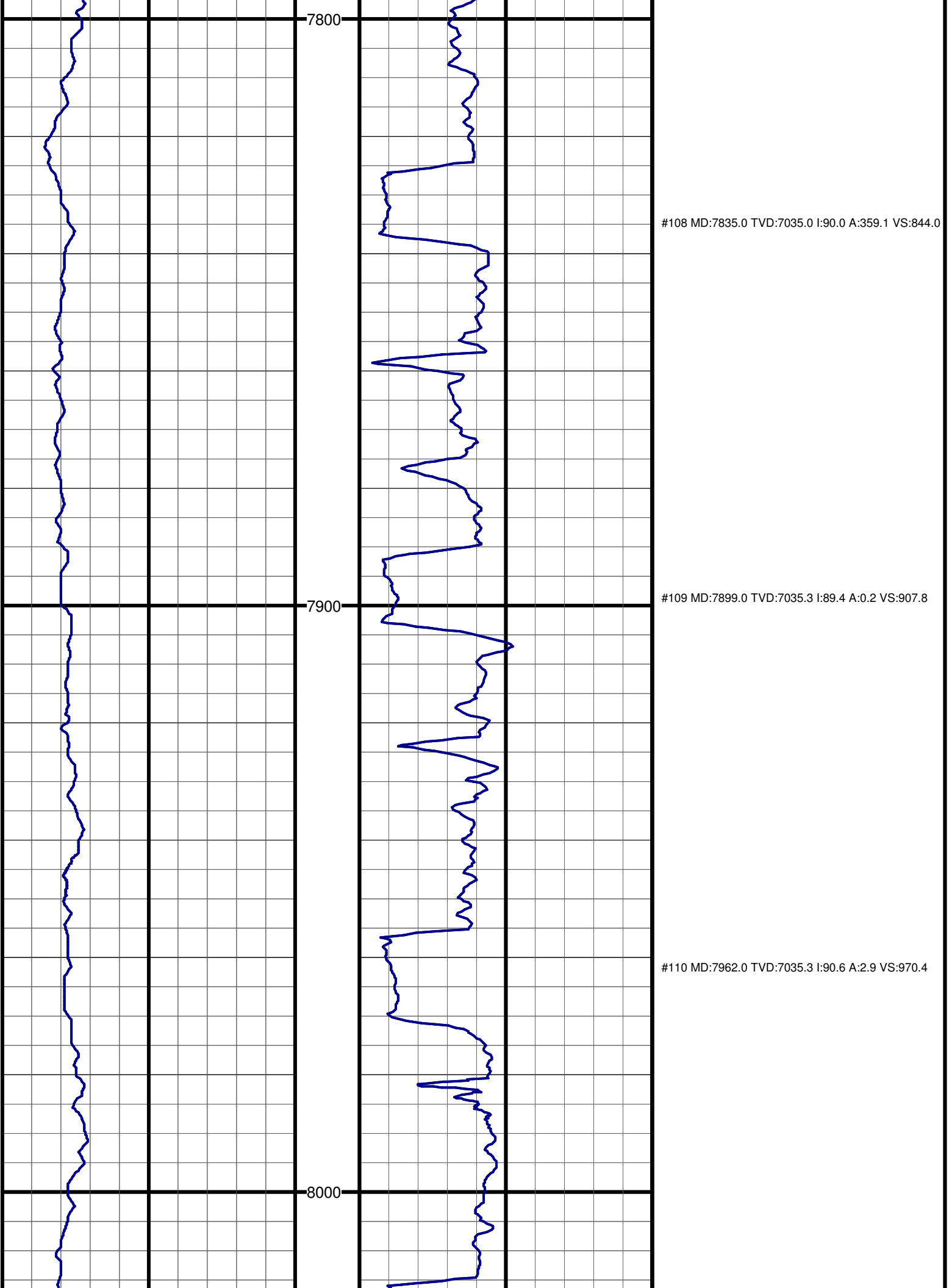
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7900
8000
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#109 MD:7899.0 TVD:7035.3 I:89.4 A:0.2 VS:907.8
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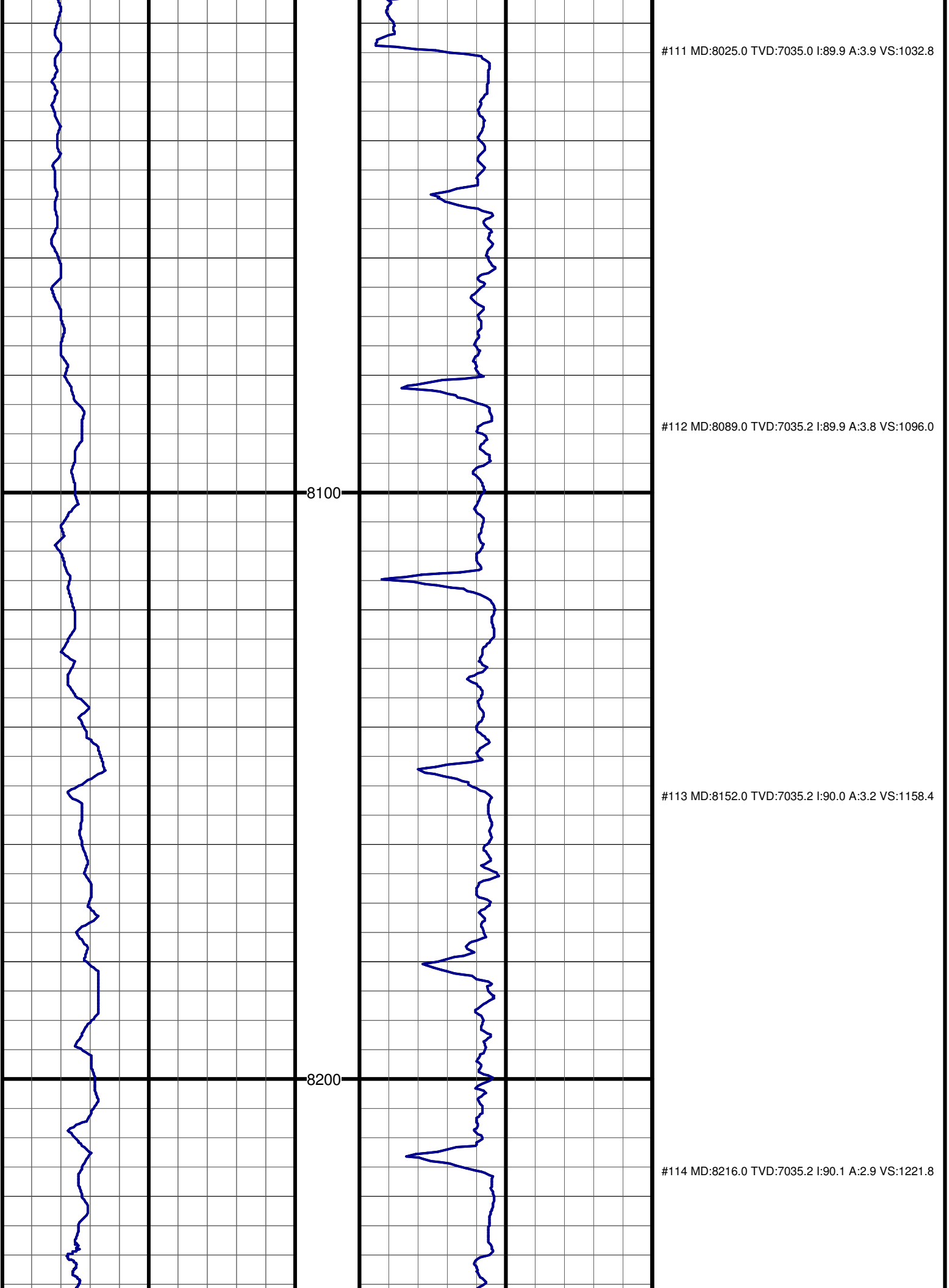
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#112 MD:8089.0 TVD:7035.2 I:89.9 A:3.8 VS:1096.0
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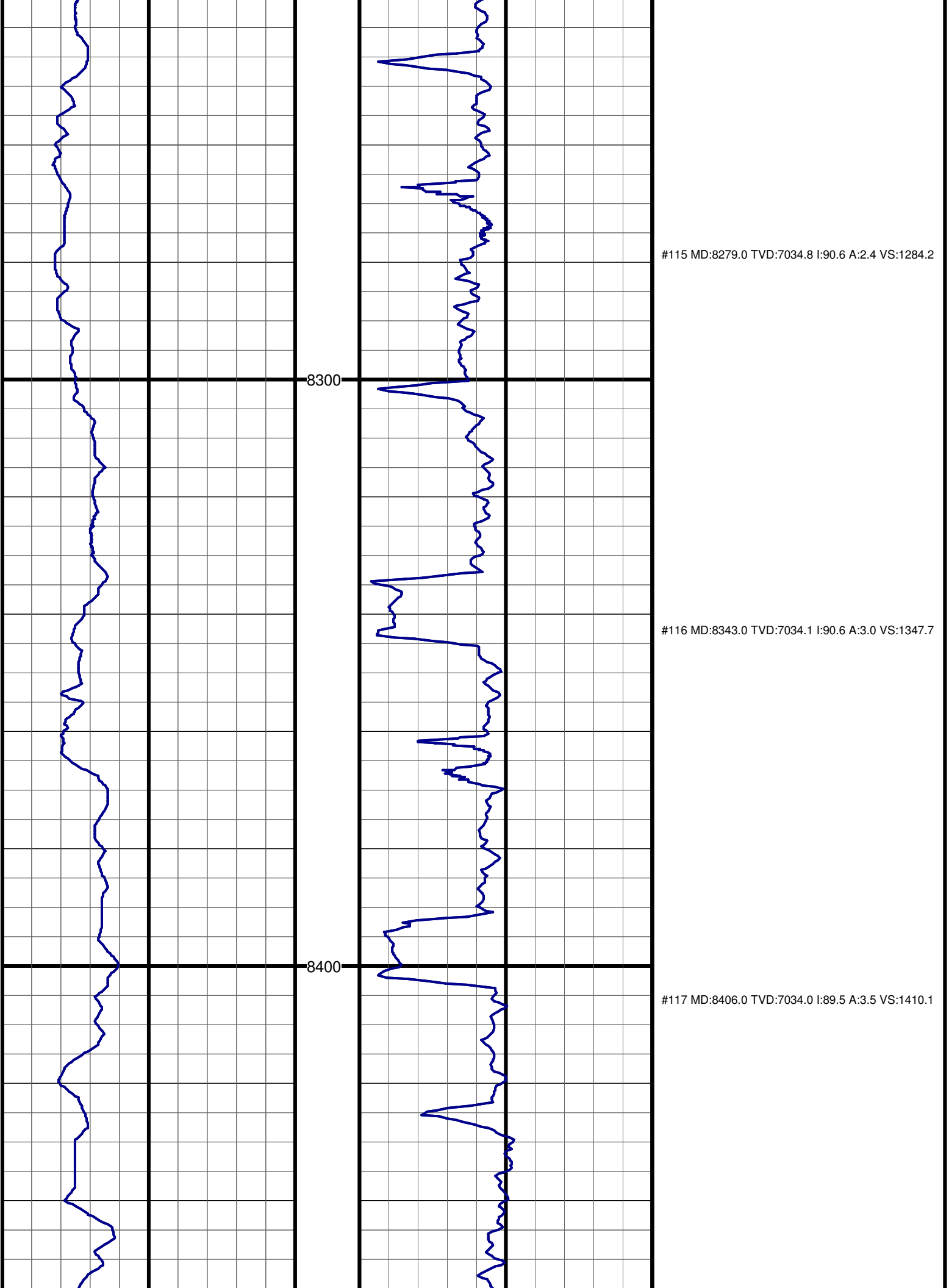
#113 MD:8152.0 TVD:7035.2 I:90.0 A:3.2 VS:1158.4
8200
#114 MD:8216.0 TVD:7035.2 I:90.1 A:2.9 VS:1221.8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8400
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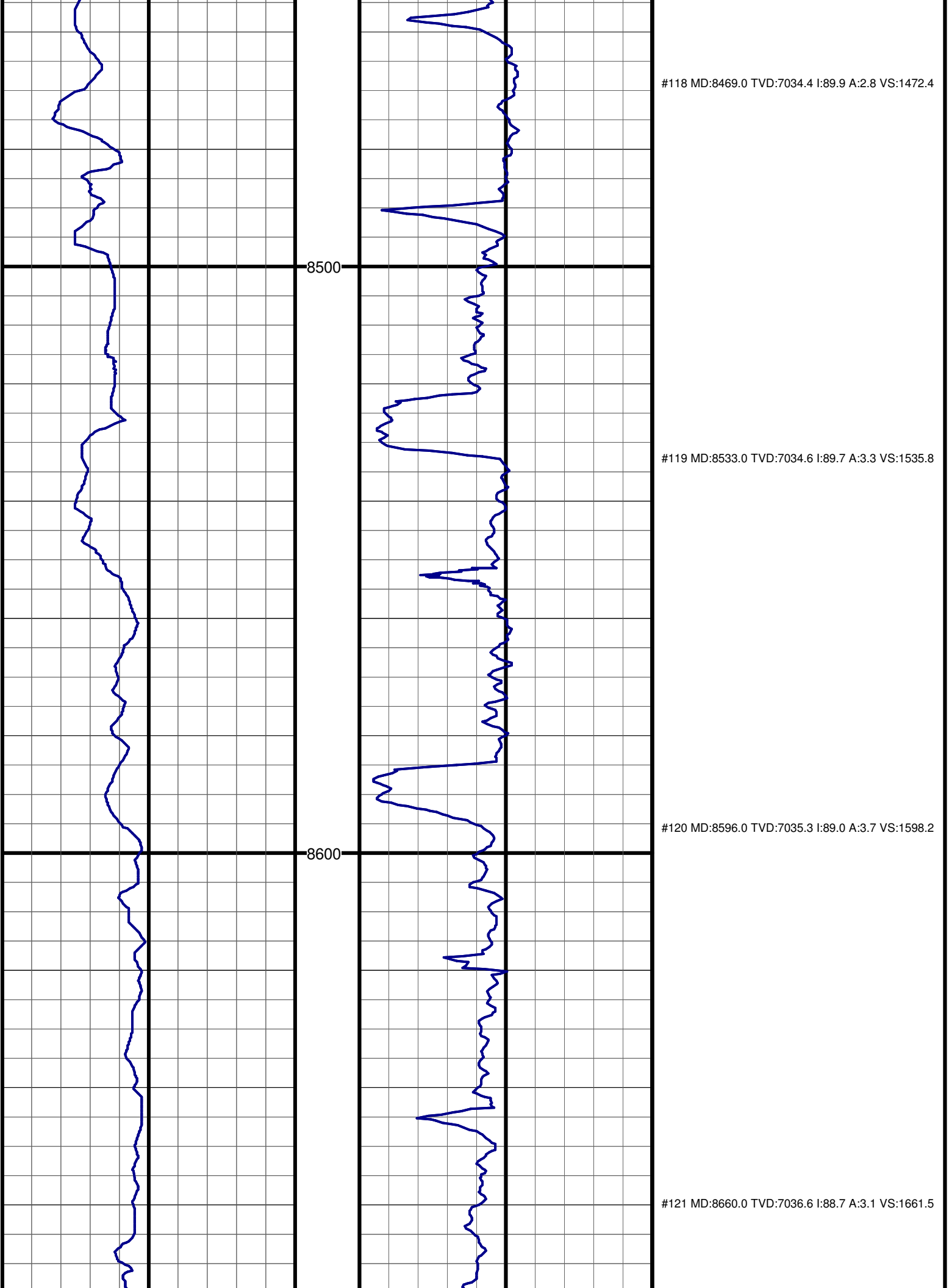
#116 MD:8343.0 TVD:7034.1 I:90.6 A:3.0 VS:1347.7
#117 MD:8406.0 TVD:7034.0 I:89.5 A:3.5 VS:1410.1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8600
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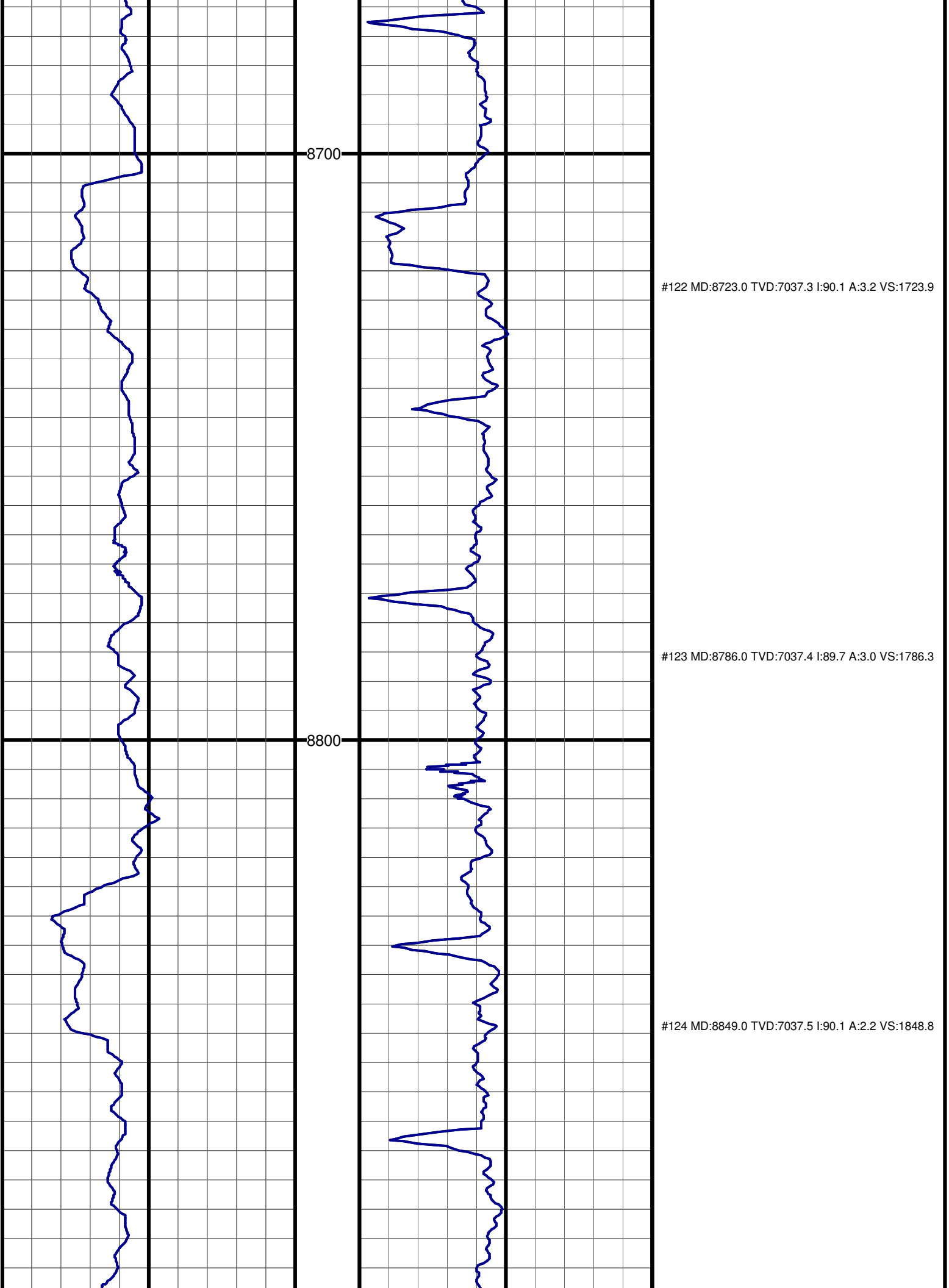
#119 MD:8533.0 TVD:7034.6 I:89.7 A:3.3 VS:1535.8
#120 MD:8596.0 TVD:7035.3 I:89.0 A:3.7 VS:1598.2
#121 MD:8660.0 TVD:7036.6 I:88.7 A:3.1 VS:1661.5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8800
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#123 MD:8786.0 TVD:7037.4 I:89.7 A:3.0 VS:1786.3
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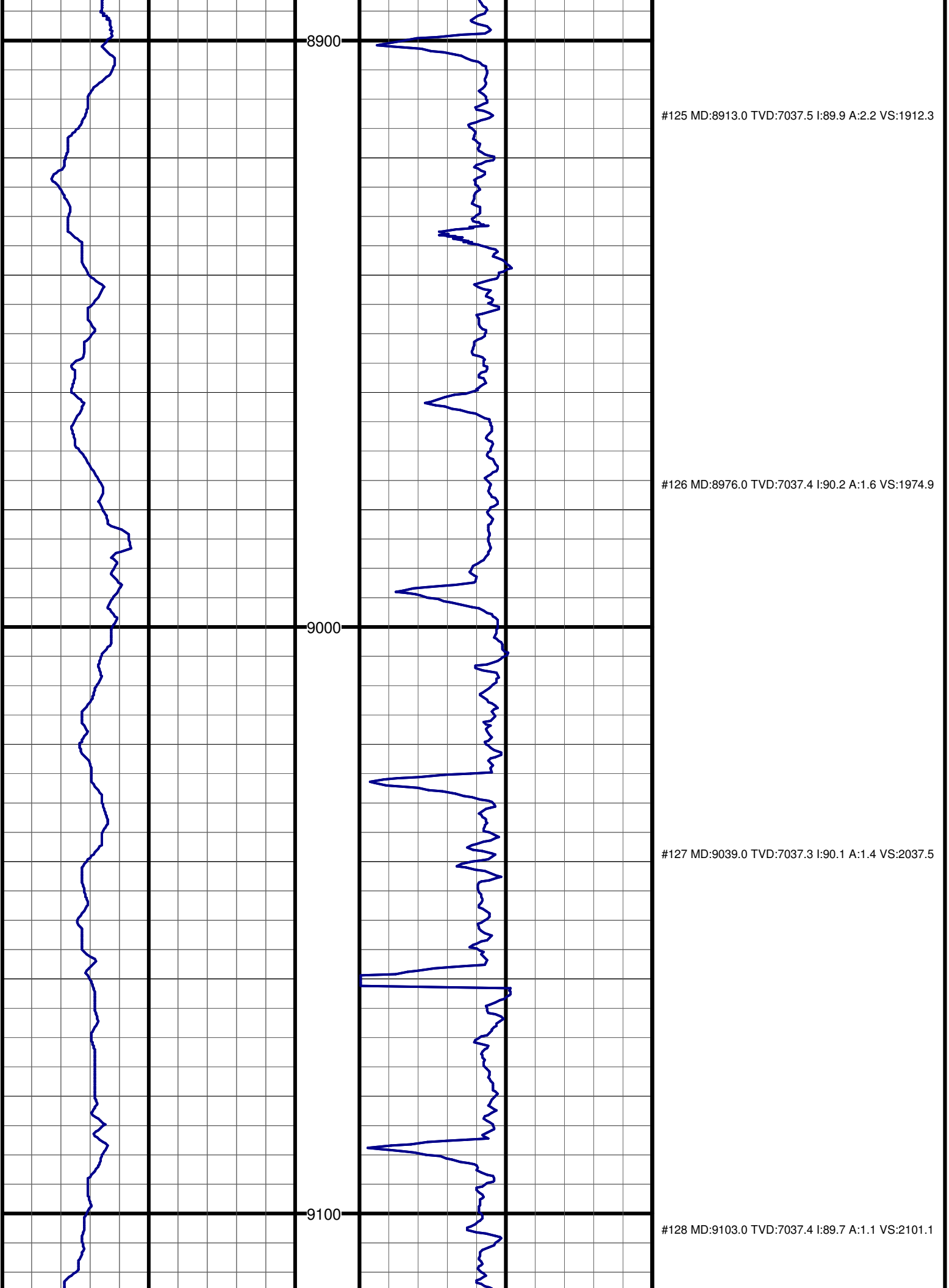
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9000
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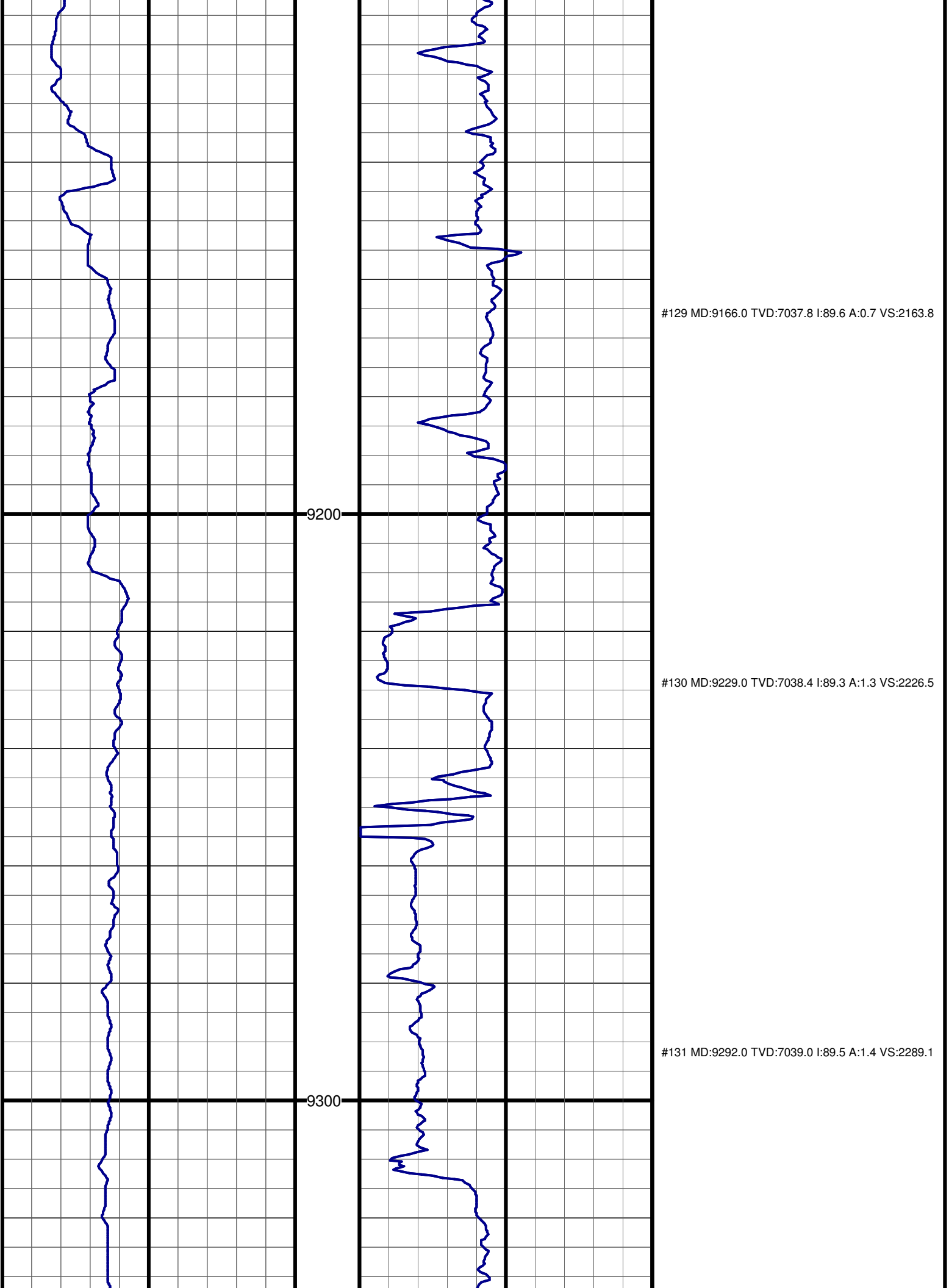
#126 MD:8976.0 TVD:7037.4 I:90.2 A:1.6 VS:1974.9
#127 MD:9039.0 TVD:7037.3 I:90.1 A:1.4 VS:2037.5
#128 MD:9103.0 TVD:7037.4 I:89.7 A:1.1 VS:2101.1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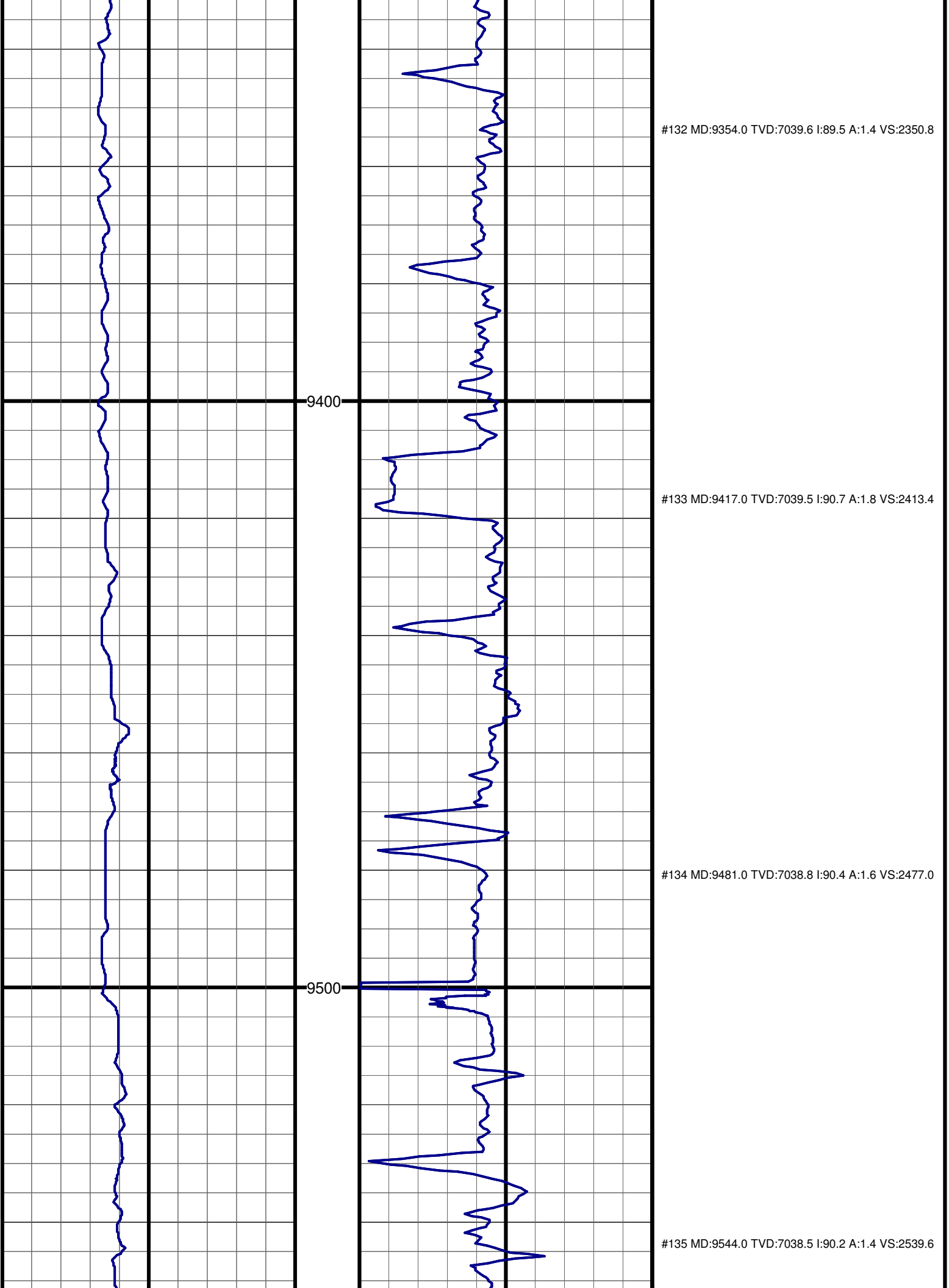
#130 MD:9229.0 TVD:7038.4 I:89.3 A:1.3 VS:2226.5
#131 MD:9292.0 TVD:7039.0 I:89.5 A:1.4 VS:2289.1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9500
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#134 MD:9481.0 TVD:7038.8 I:90.4 A:1.6 VS:2477.0
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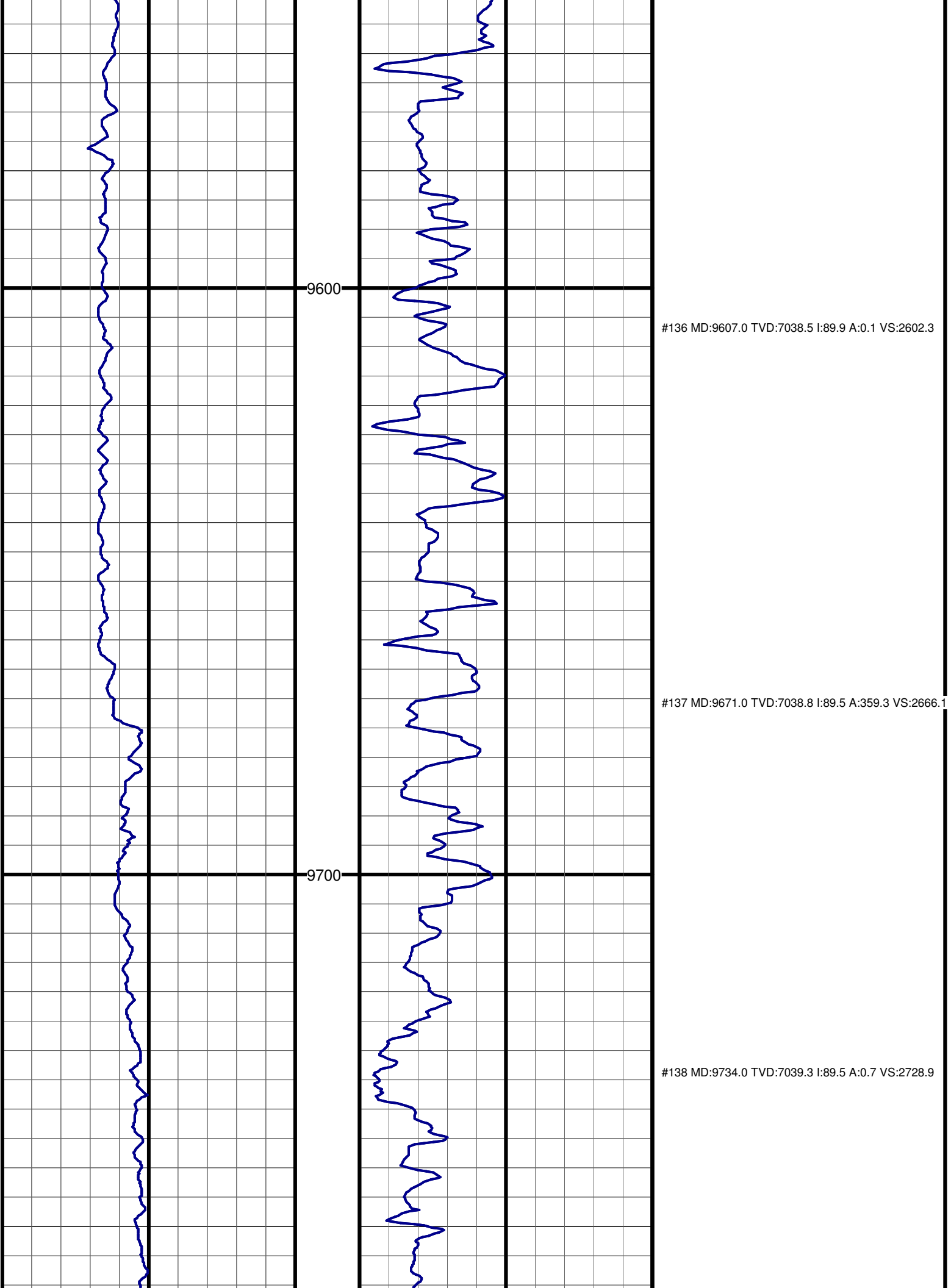
9600
9700
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#137 MD:9671.0 TVD:7038.8 I:89.5 A:359.3 VS:2666.1
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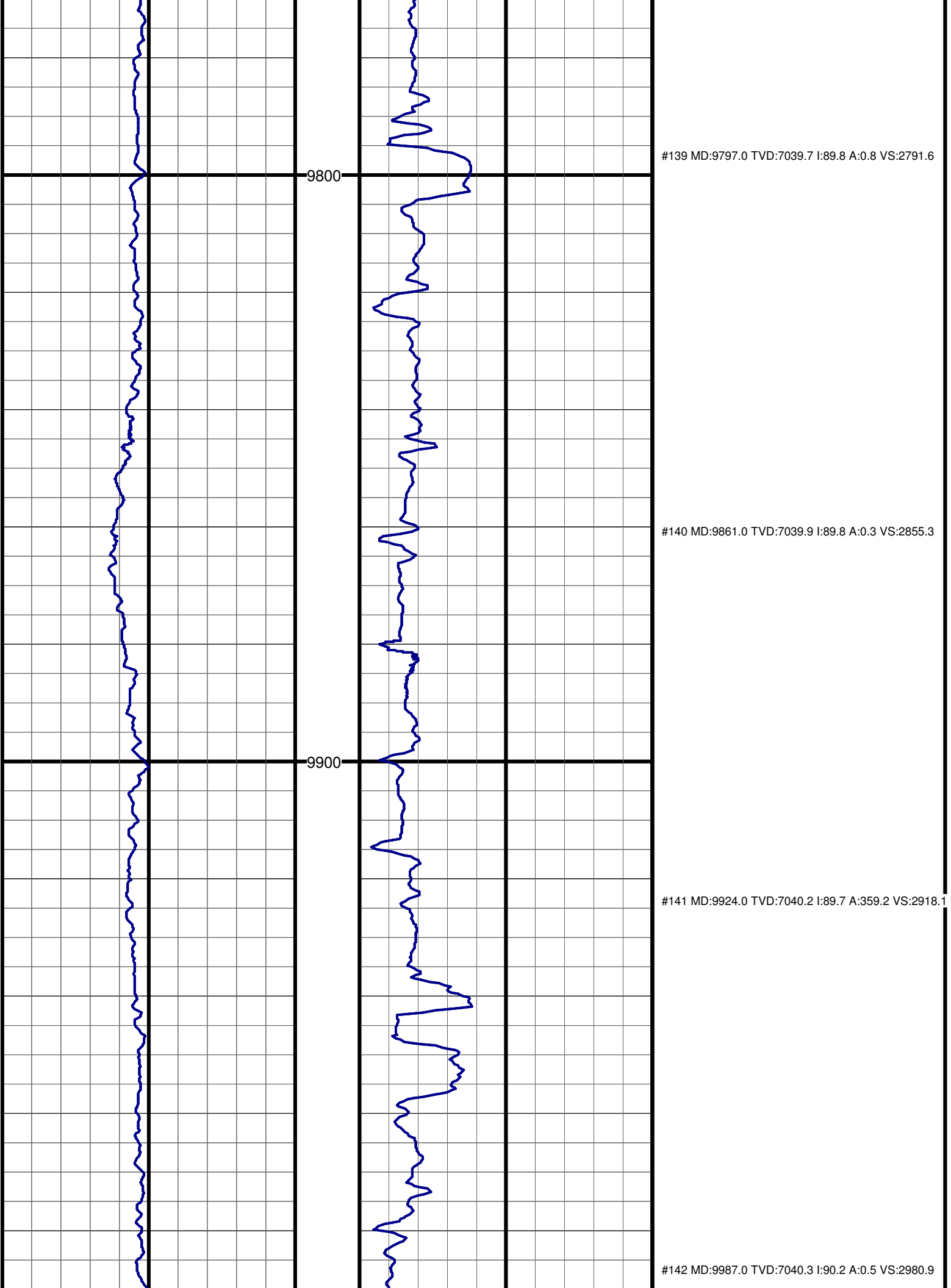
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9900
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#140 MD:9861.0 TVD:7039.9 I:89.8 A:0.3 VS:2855.3
#141 MD:9924.0 TVD:7040.2 I:89.7 A:359.2 VS:2918.1
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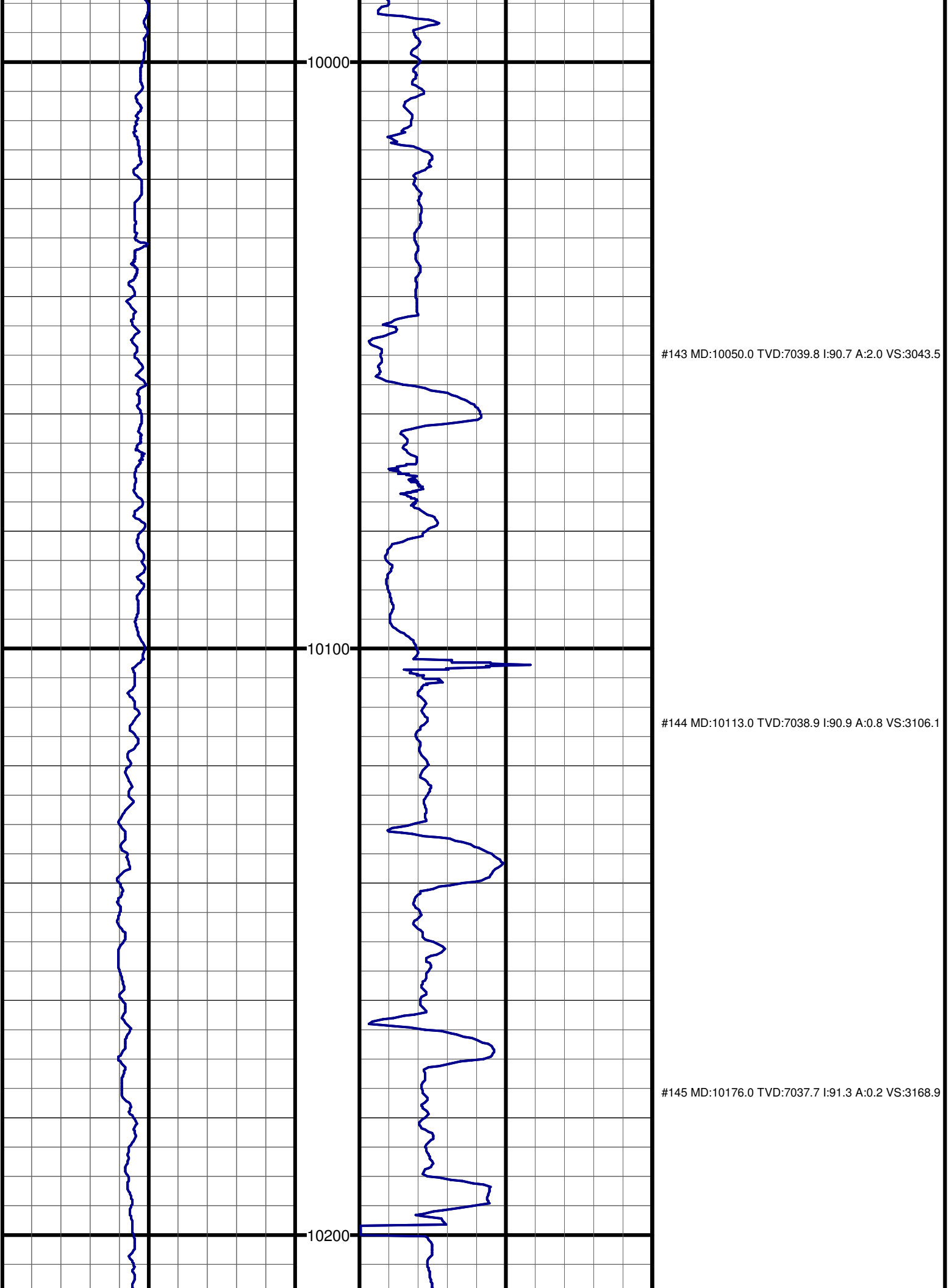
10000
10100
10200
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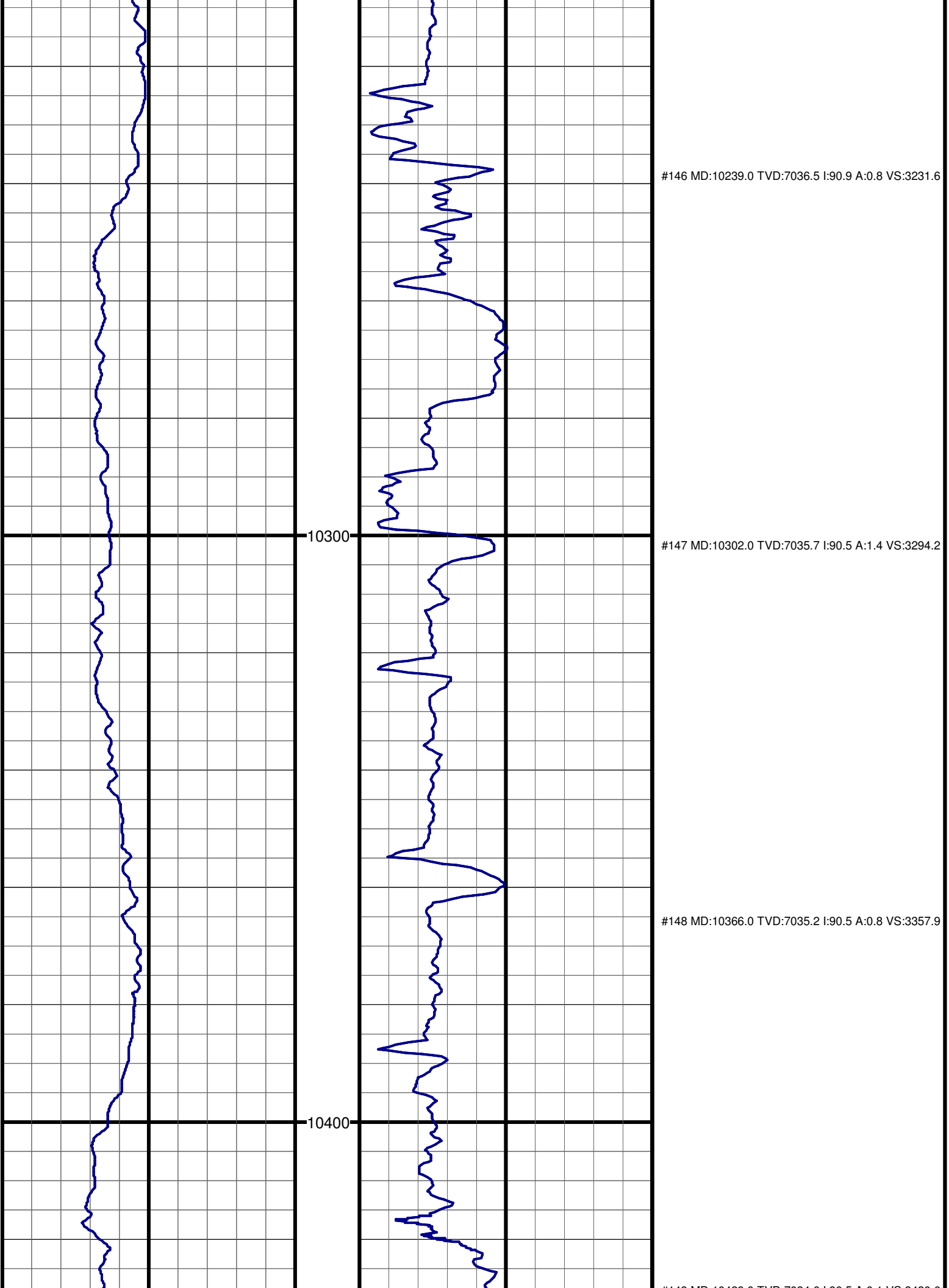
#144 MD:10113.0 TVD:7038.9 I:90.9 A:0.8 VS:3106.1
#145 MD:10176.0 TVD:7037.7 I:91.3 A:0.2 VS:3168.9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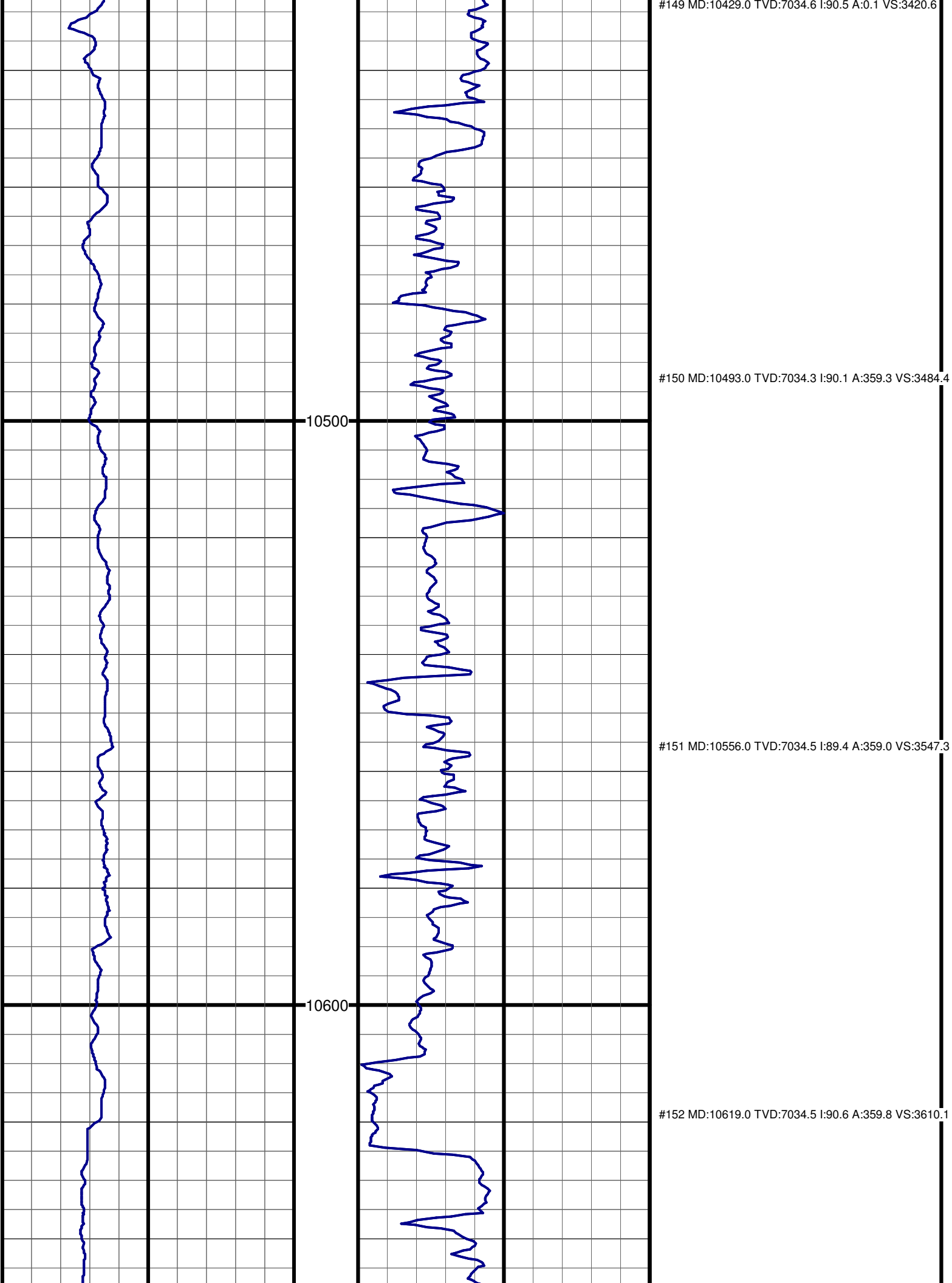
#147 MD:10302.0 TVD:7035.7 I:90.5 A:1.4 VS:3294.2
#148 MD:10366.0 TVD:7035.2 I:90.5 A:0.8 VS:3357.9
10400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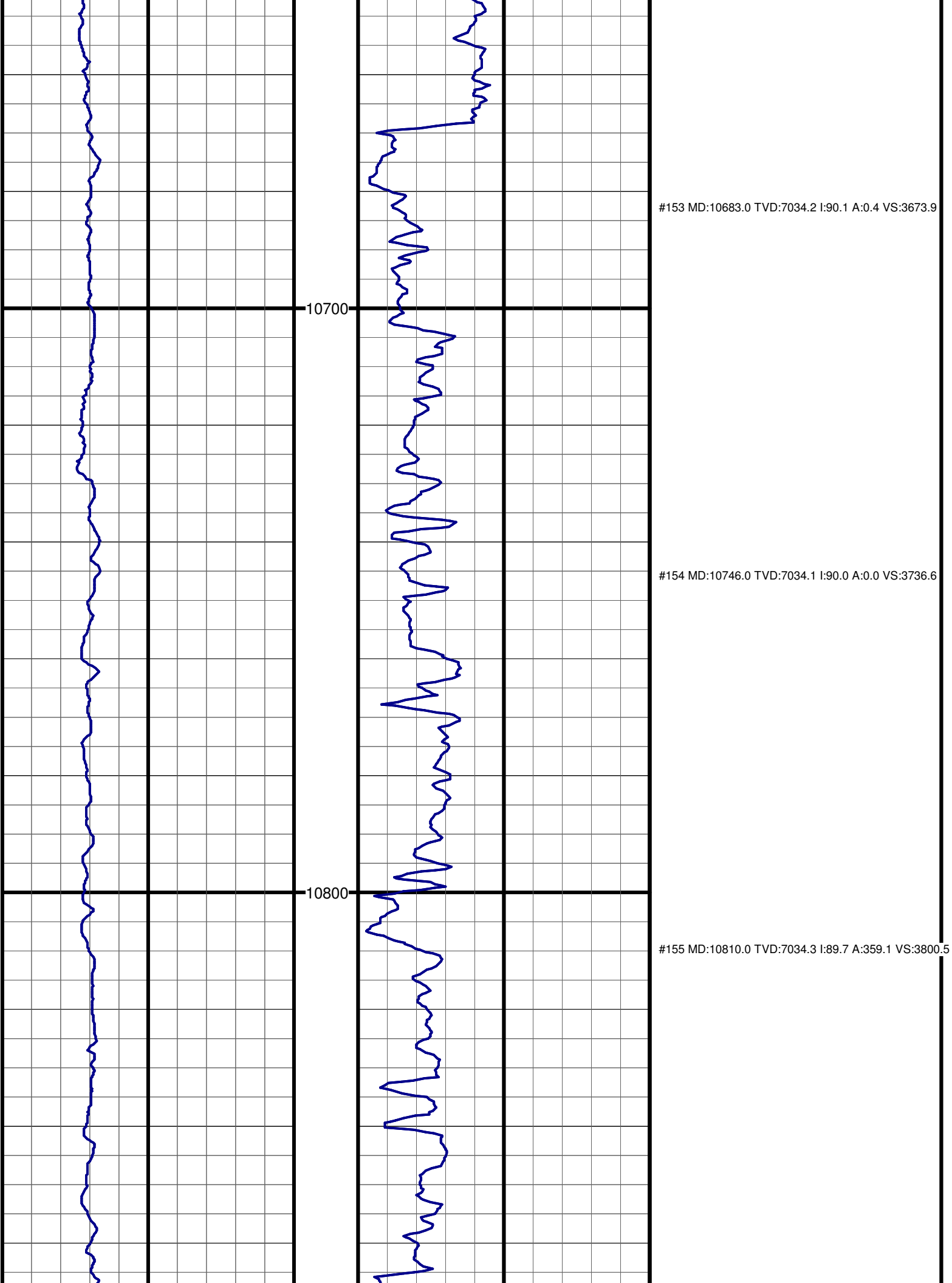
10500
#151 MD:10556.0 TVD:7034.5 I:89.4 A:359.0 VS:3547.3
10600
#152 MD:10619.0 TVD:7034.5 I:90.6 A:359.8 VS:3610.1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10800
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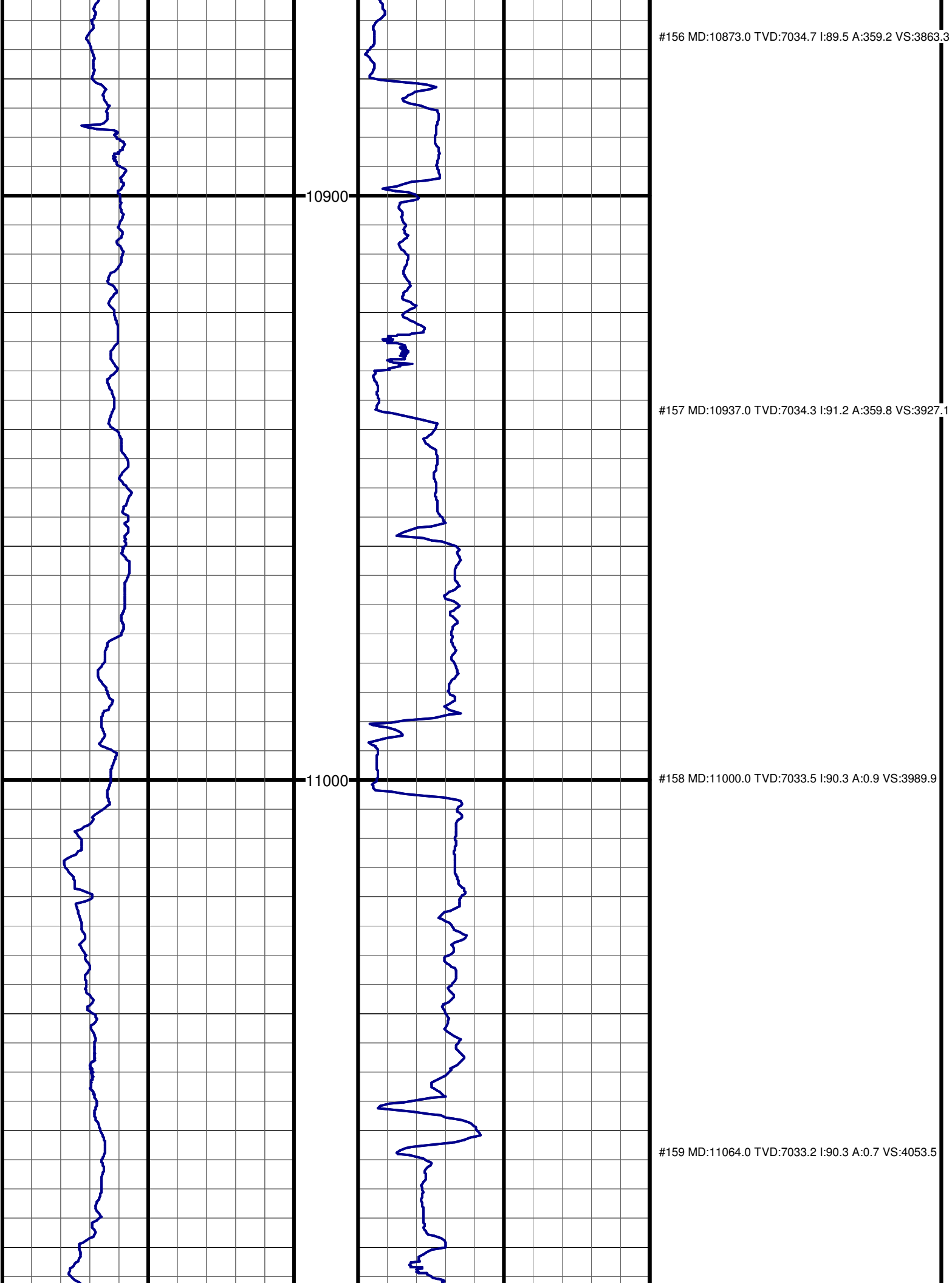
#154 MD:10746.0 TVD:7034.1 I:90.0 A:0.0 VS:3736.6
#155 MD:10810.0 TVD:7034.3 I:89.7 A:359.1 VS:3800.5


10900
11000
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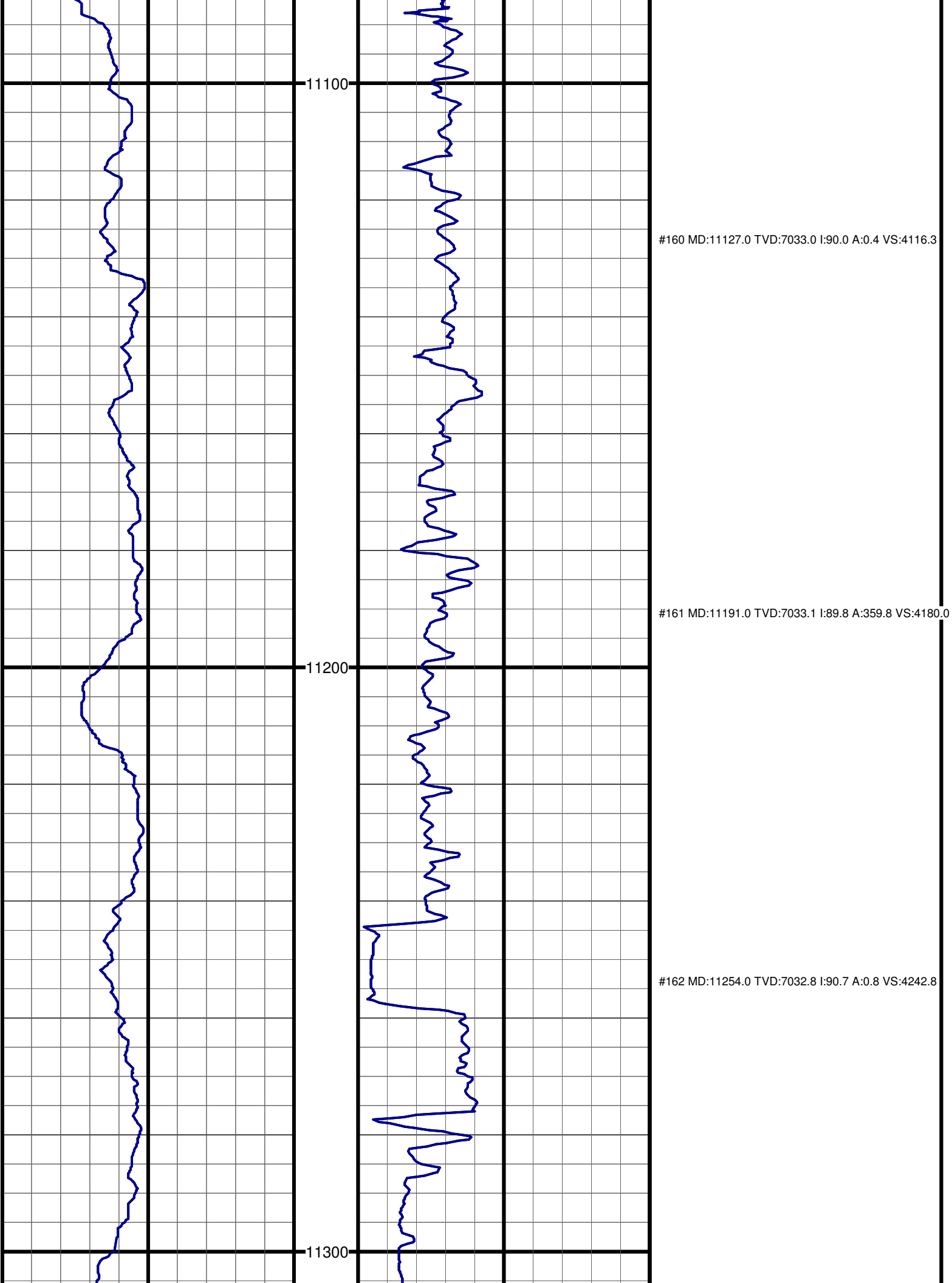
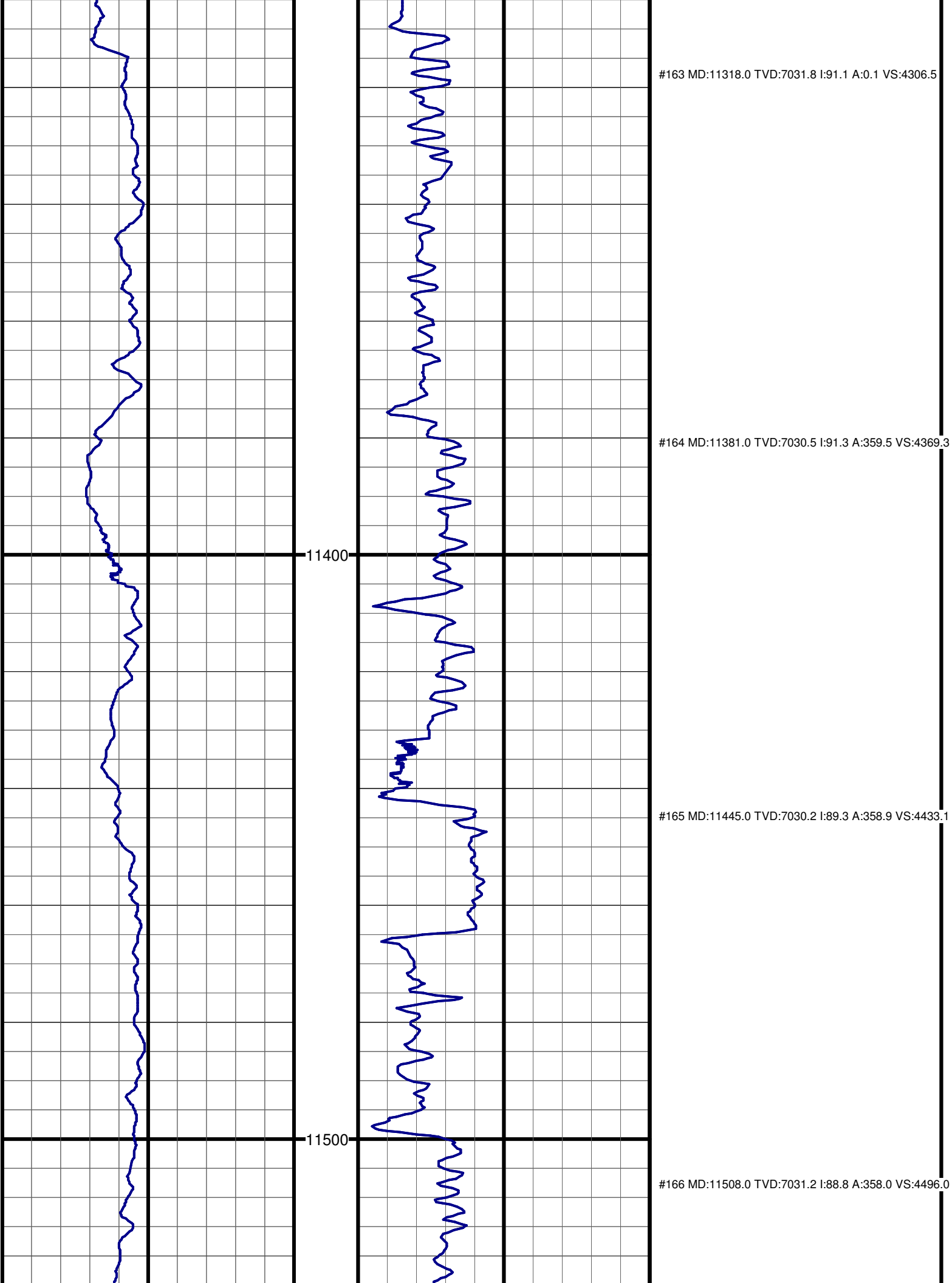
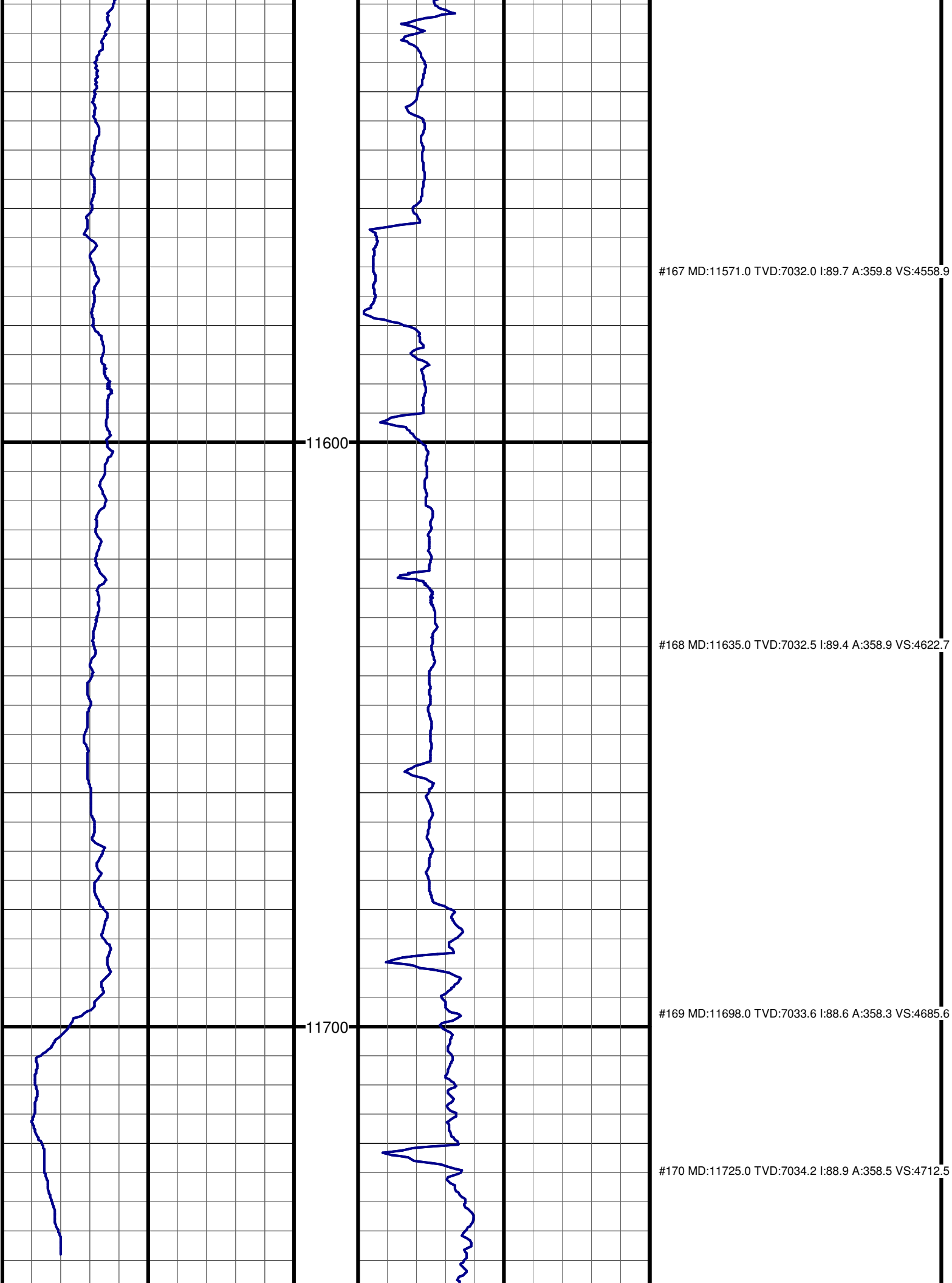
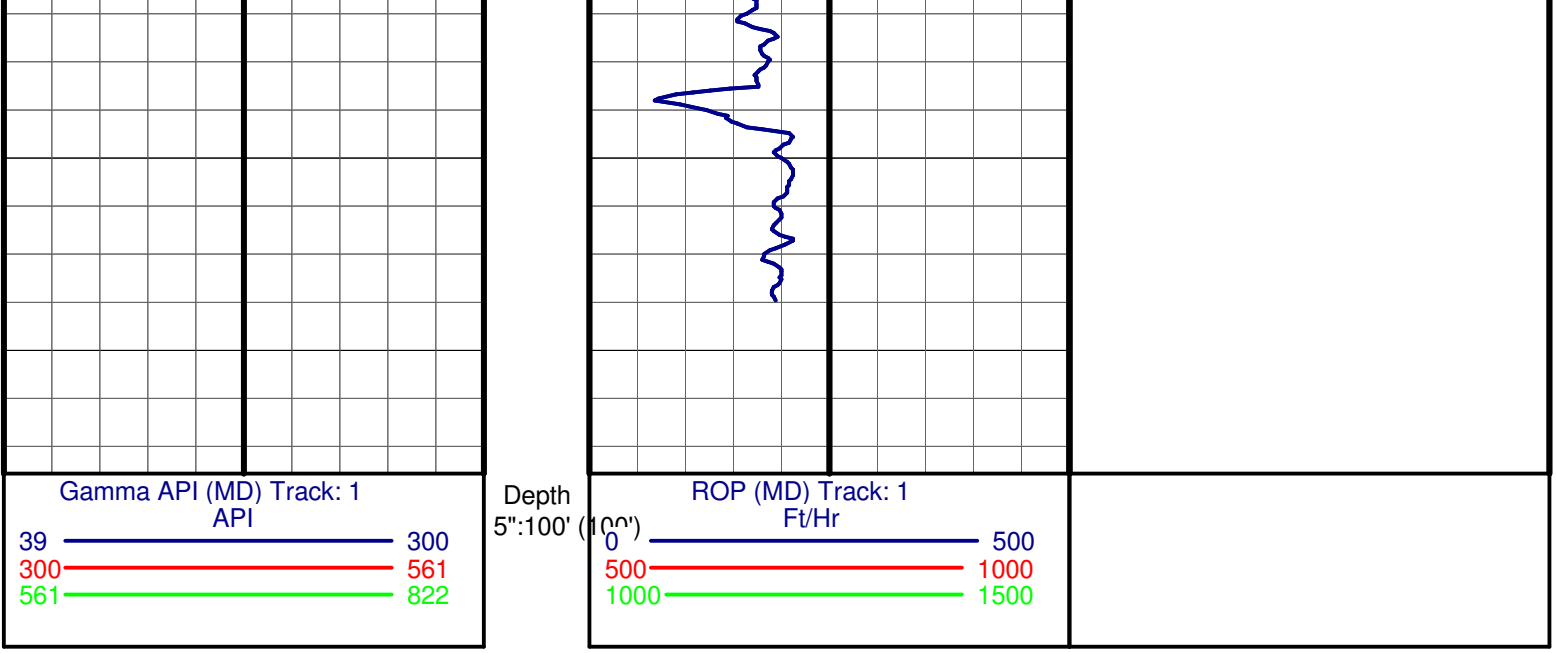
#157 MD:10937.0 TVD:7034.3 I:91.2 A:359.8 VS:3927.1
#158 MD:11000.0 TVD:7033.5 I:90.3 A:0.9 VS:3989.9
#159 MD:11064.0 TVD:7033.2 I:90.3 A:0.7 VS:4053.5


11100
11200
11300
#160 MD:11127.0 TVD:7033.0 I:90.0 A:0.4 VS:4116.3
#161 MD:11191.0 TVD:7033.1 I:89.8 A:359.8 VS:4180.0
#162 MD:11254.0 TVD:7032.8 I:90.7 A:0.8 VS:4242.8


#163 MD:11318.0 TVD:7031.8 I:91.1 A:0.1 VS:4306.5
#164 MD:11381.0 TVD:7030.5 I:91.3 A:359.5 VS:4369.3
11400
#165 MD:11445.0 TVD:7030.2 I:89.3 A:358.9 VS:4433.1
11500
#166 MD:11508.0 TVD:7031.2 I:88.8 A:358.0 VS:4496.0


11600
11700
#167 MD:11571.0 TVD:7032.0 I:89.7 A:359.8 VS:4558.9
#168 MD:11635.0 TVD:7032.5 I:89.4 A:358.9 VS:4622.7
#169 MD:11698.0 TVD:7033.6 I:88.6 A:358.3 VS:4685.6
#170 MD:11725.0 TVD:7034.2 I:88.9 A:358.5 VS:4712.5


Gamma API (MD) Track: 1
API
39
300
300
561
561
822
Depth
5":100' (100')
ROP (MD) Track: 1
Ft/Hr
0
500
500
1000
1000
1500