Digital Drilling Data Systems, LLC

# MD Lateral

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

Company: Cathedral Energy Services
Well: Mathews 4E-14H
Field: DJ Basin
Well ID: 051233683800
Job Number: 135277
Location: Weld County
Operator 1: Encana Oil & Gas
Operator 2:

State: CO
County: Weld
Country: USA

Elev KB: 5117
Elev DF:
Elev GL: 5104

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

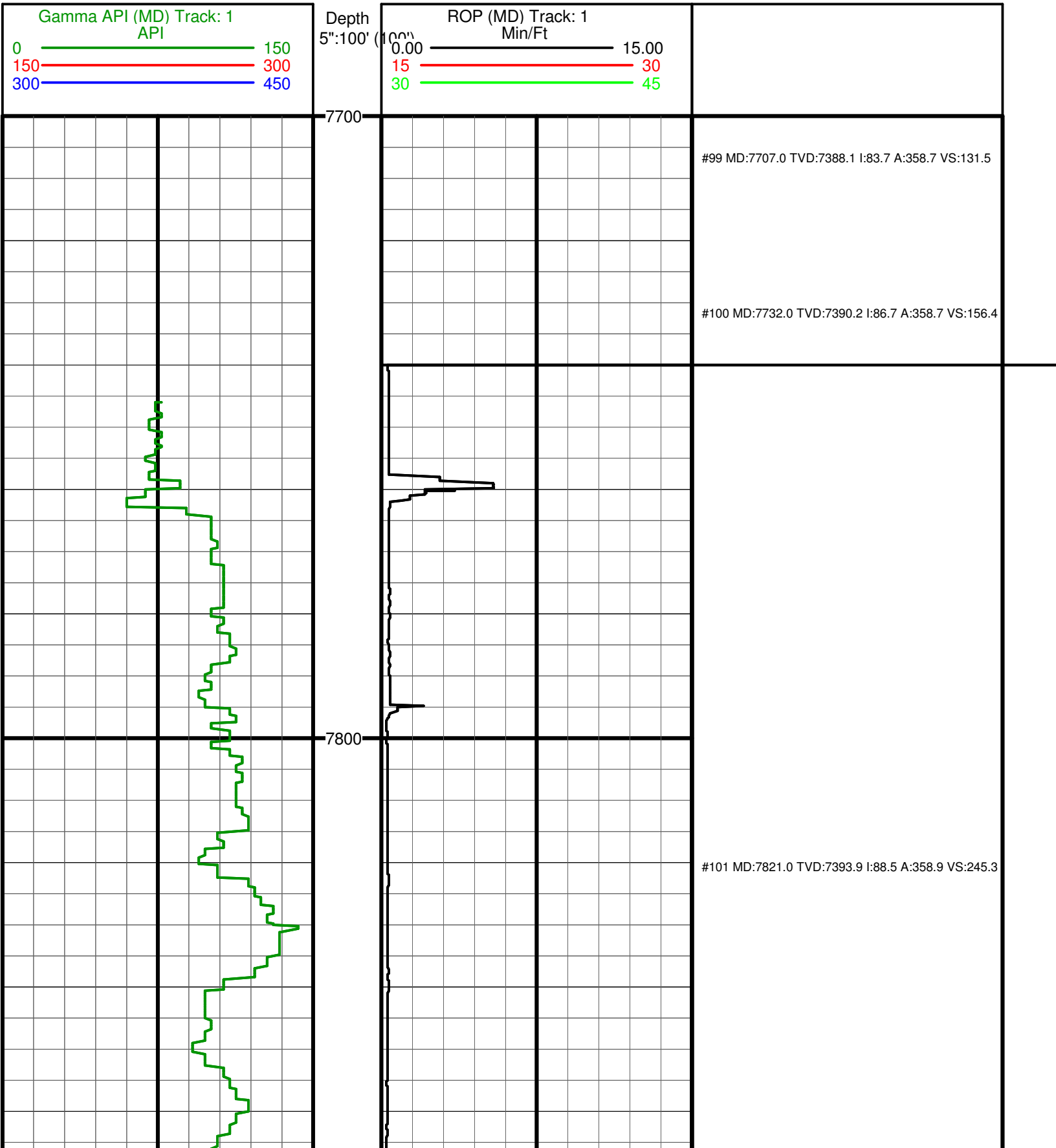
| Hole Data | | | Casing Record | | |
|---|---|---|---|---|---|
| **Size** | **From** | **To** | **Size** | **From** | **To** |
| 12.25 | 0 | 1365 | 9.625 | 0 | 1365 |
| 8.75 | 1365 | 7784 | 7.0 | 1365 | 7766 |
| 6.125 | 7784 | 11942 | | | |
| | | | | | |
| | | | | | |

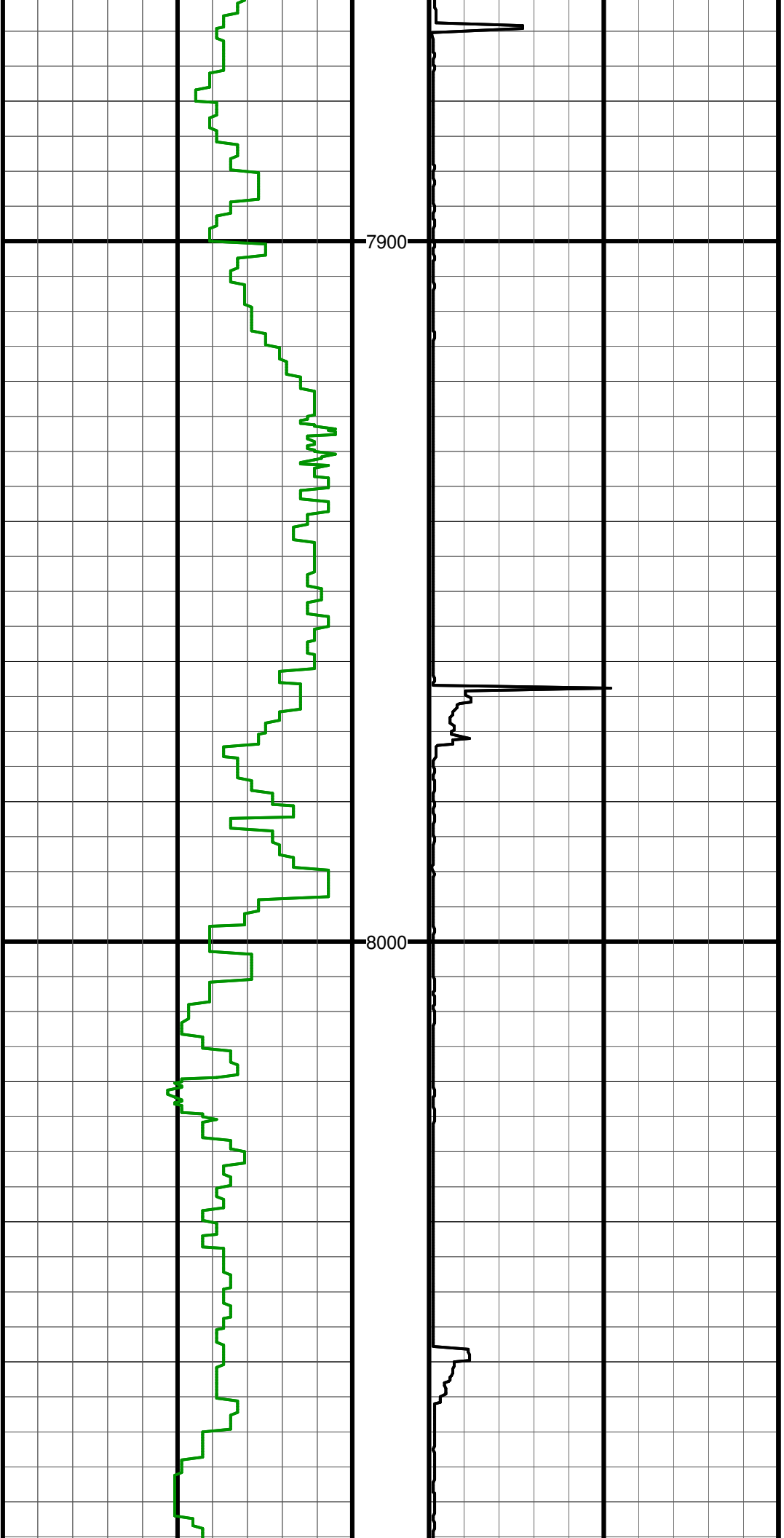
| Tool Run Data | Run #1 | Run #2 | Run #3 | Run #4 | Run #5 |
|---|---|---|---|---|---|
| **Tool S/N** | 1285 | 1285 | 1289 | 1545/195 | 1354/199 |
| **Cal Factor** | 4.15 | 4.15 | 2.97 | 2.97 | 2.97 |
| **Gamma Offset** | 38.82 | 38.82 | 36.26 | 38.45 | 38.45 |
| **Start Depth** | 5000 | 1365 | 7784 | 7784 | 8450 |
| **Start Date** | 6/20/13 | 6/21/13 | 6/25/13 | 6/26/13 | 6/27/13 |
| **Start Time** | 3:00 | 22:00 | 16:30 | 3:00 | 1:00 |
| **End Depth** | 1365 | 7784 | 7784 | 8450 | 8450 |
| **End Date** | 6/20/13 | 6/24/13 | 6/26/13 | 6/27/13 | 6/27/13 |
| **End Time** | 18:30 | 13:00 | 2:30 | 0:00 | 6:00 |

| Tool Run Data | Run #6 | Run #7 | Run #8 | Run #9 | Run #10 |
|---|---|---|---|---|---|
| **Tool S/N** | 1285 | | | | |
| **Cal Factor** | 2.97 | | | | |
| **Offset** | 36.26 | | | | |
| **Start Depth** | 8450 | | | | |
| **Start Date** | 6/27/13 | | | | |
| **Start Time** | 6:30 | | | | |
| **End Depth** | 11942 | | | | |
| **End Date** | 6/30/13 | | | | |
| **End Time** | 4:00 | | | | |

| 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** | | | | | |

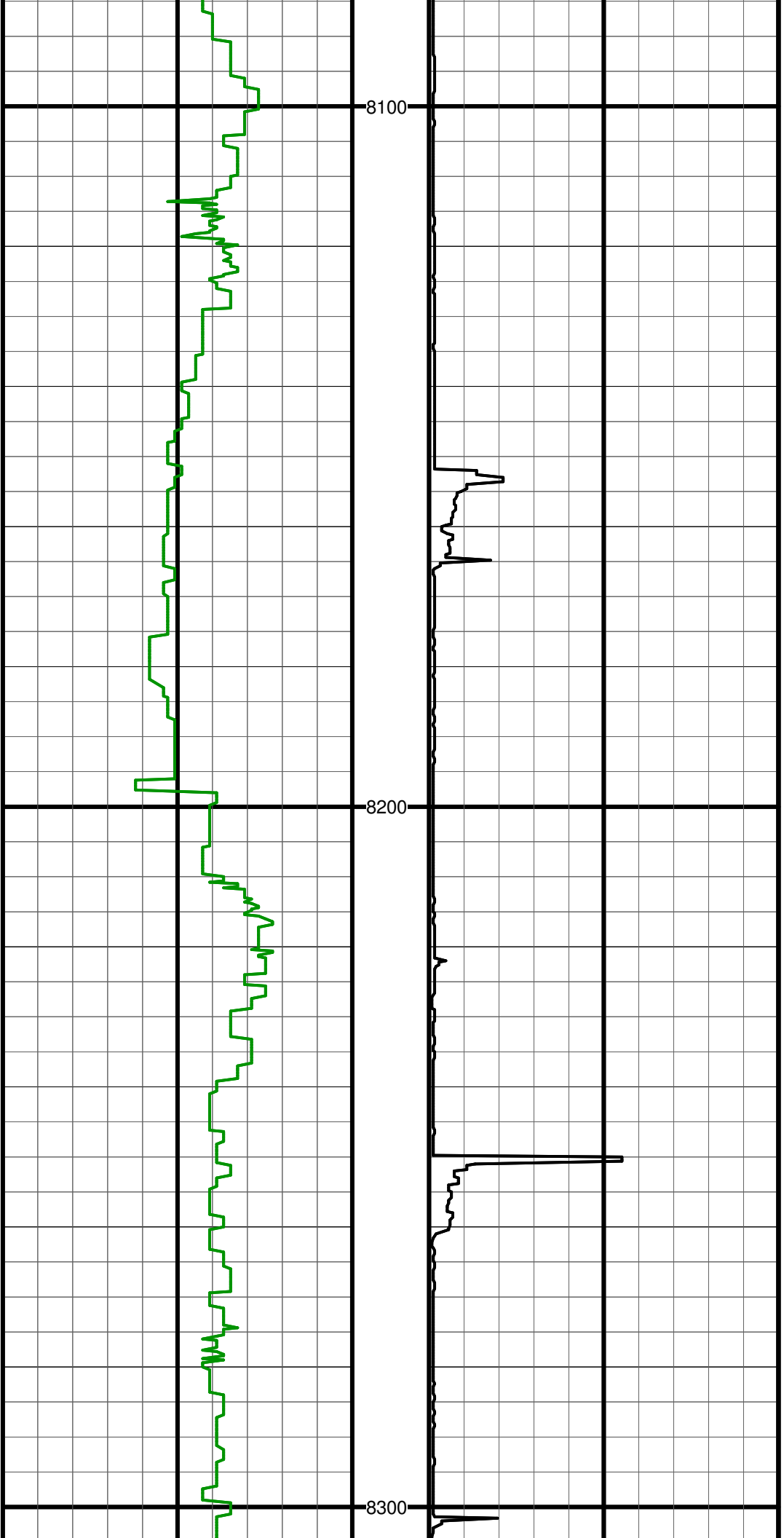
| | | | | | |
|---|---|---|---|---|---|
| **End Date** | | | | | |
| **End Time** | | | | | |






#102 MD:7916.0 TVD:7396.4 I:88.5 A:358.0 VS:340.2

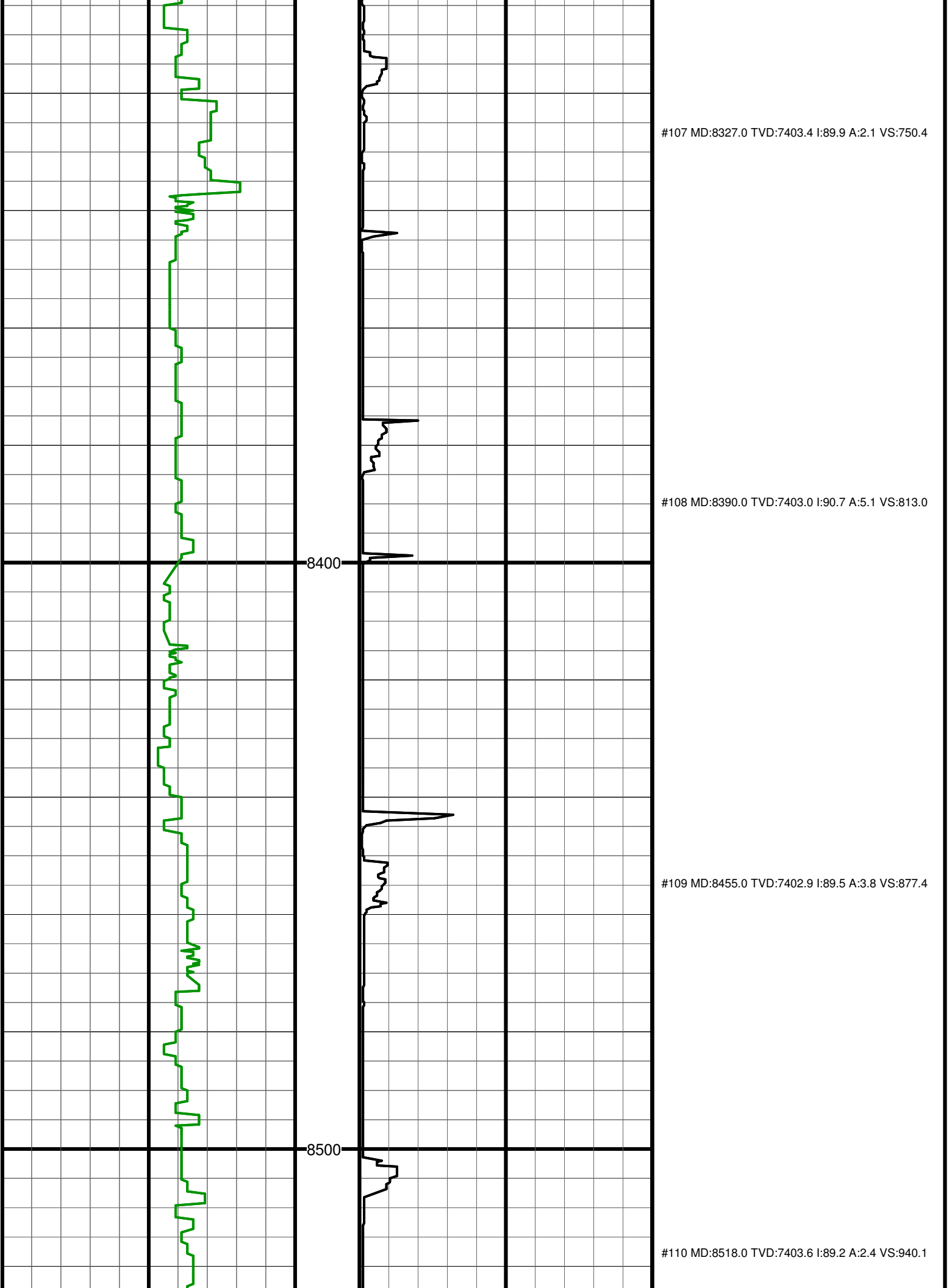
#103 MD:8011.0 TVD:7400.1 I:87.1 A:359.1 VS:435.1

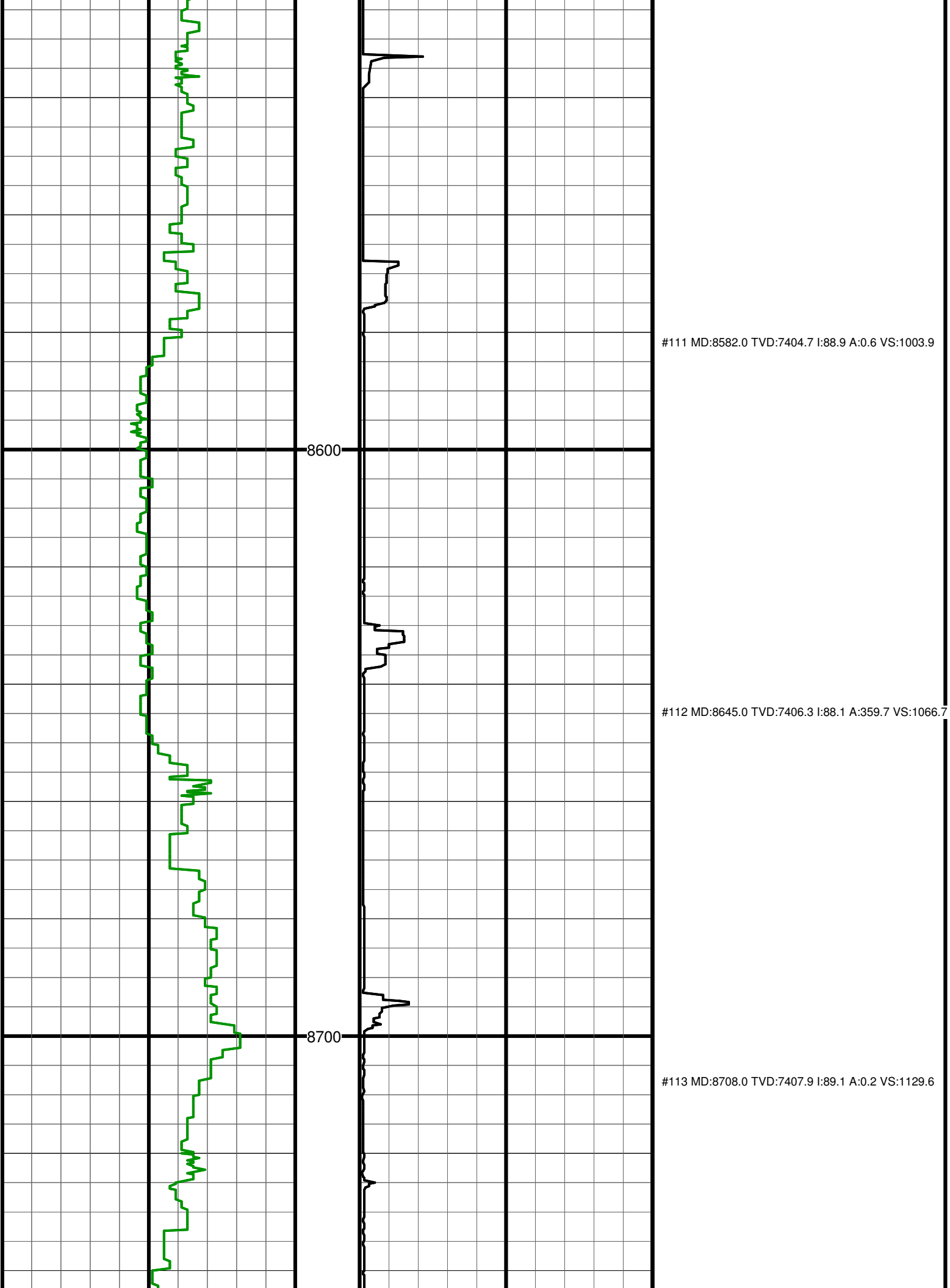


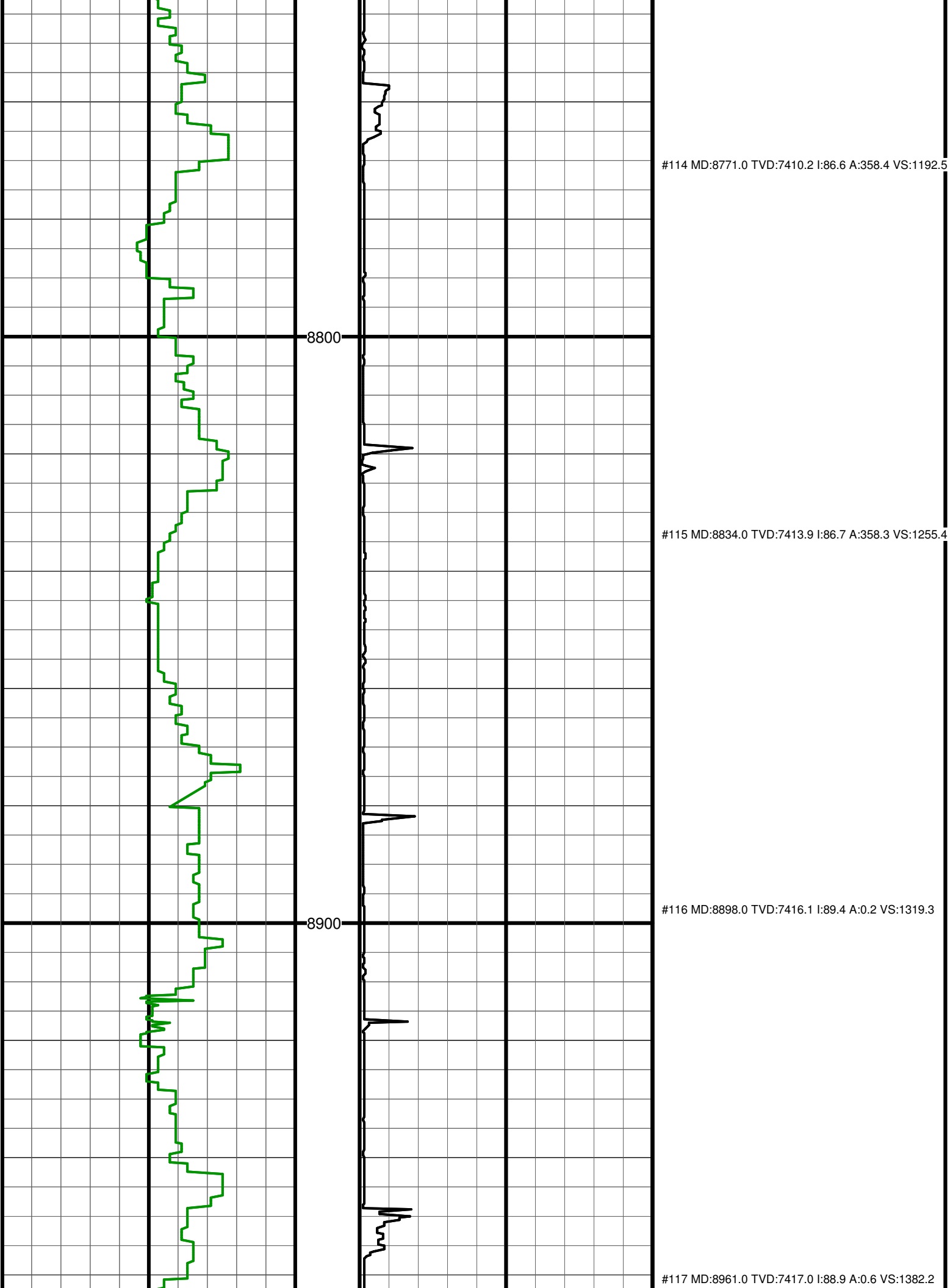

#104 MD:8105.0 TVD:7404.7 I:87.2 A:358.2 VS:529.0

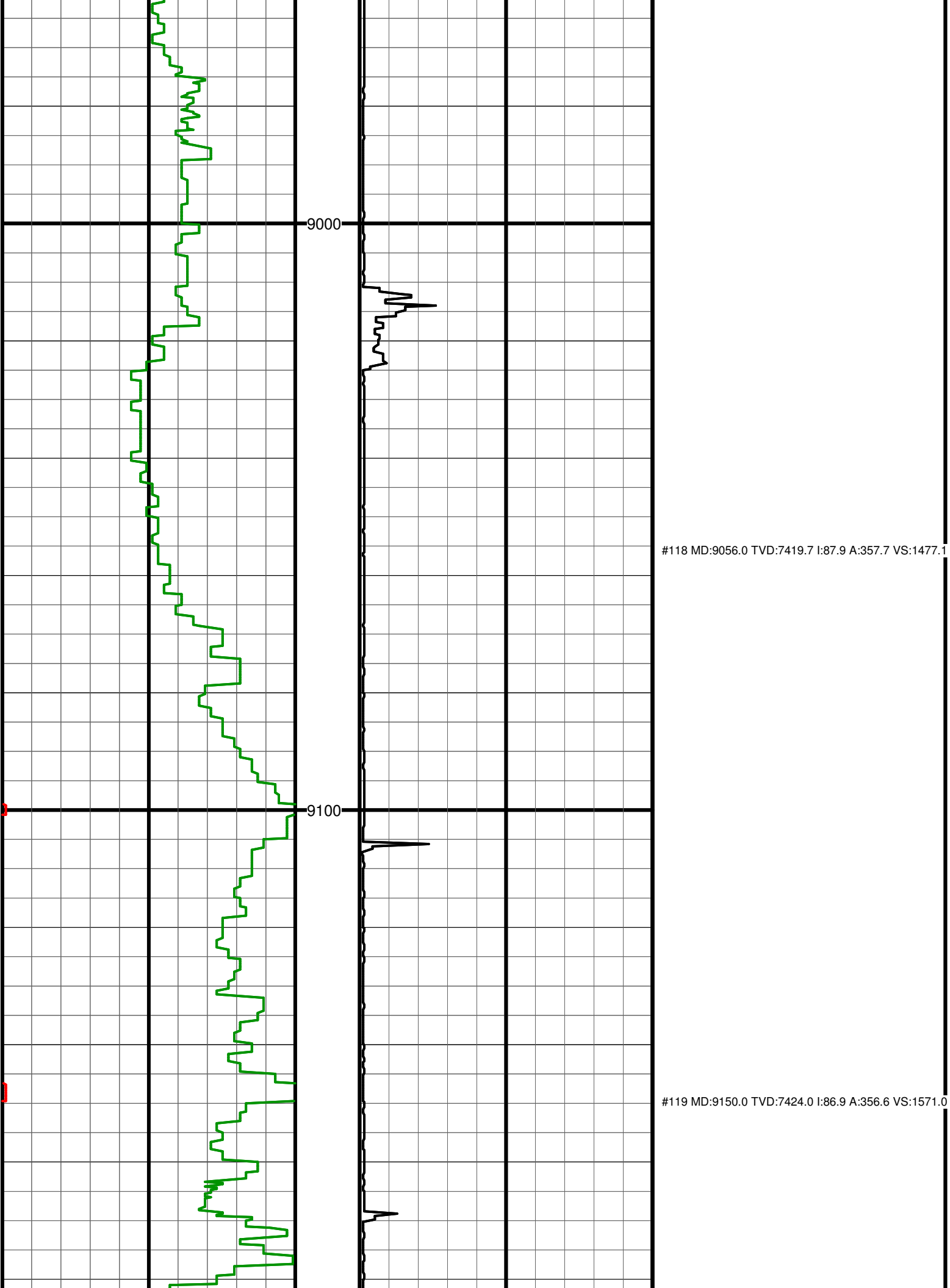
#105 MD:8200.0 TVD:7405.1 I:92.4 A:1.8 VS:623.8

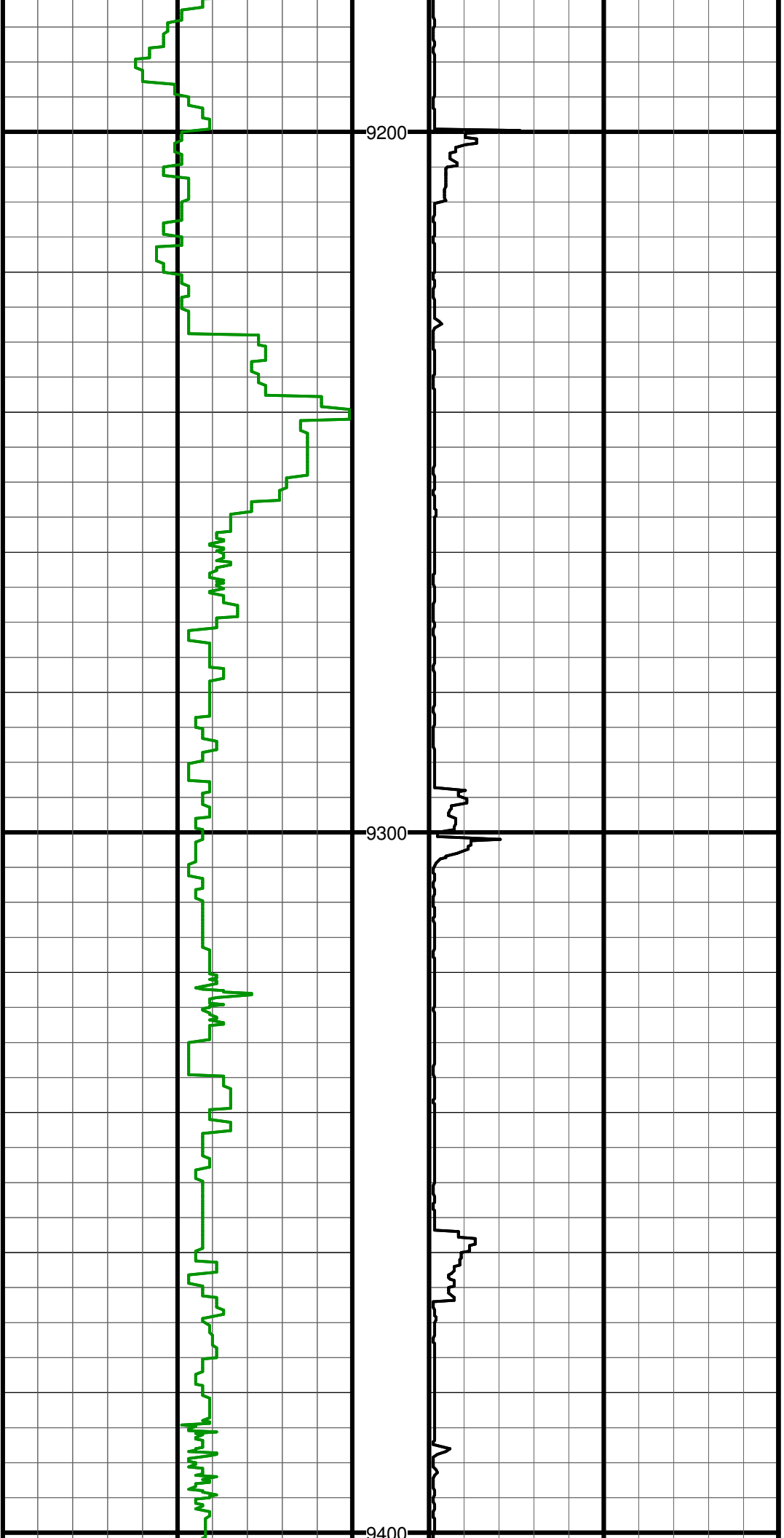
#106 MD:8263.0 TVD:7403.5 I:90.4 A:0.8 VS:686.6


#107 MD:8327.0 TVD:7403.4 I:89.9 A:2.1 VS:750.4
#108 MD:8390.0 TVD:7403.0 I:90.7 A:5.1 VS:813.0
8400
#109 MD:8455.0 TVD:7402.9 I:89.5 A:3.8 VS:877.4
8500
#110 MD:8518.0 TVD:7403.6 I:89.2 A:2.4 VS:940.1


8600
8700
#111 MD:8582.0 TVD:7404.7 I:88.9 A:0.6 VS:1003.9
#112 MD:8645.0 TVD:7406.3 I:88.1 A:359.7 VS:1066.7
#113 MD:8708.0 TVD:7407.9 I:89.1 A:0.2 VS:1129.6


8800
8900
#114 MD:8771.0 TVD:7410.2 I:86.6 A:358.4 VS:1192.5
#115 MD:8834.0 TVD:7413.9 I:86.7 A:358.3 VS:1255.4
#116 MD:8898.0 TVD:7416.1 I:89.4 A:0.2 VS:1319.3
#117 MD:8961.0 TVD:7417.0 I:88.9 A:0.6 VS:1382.2

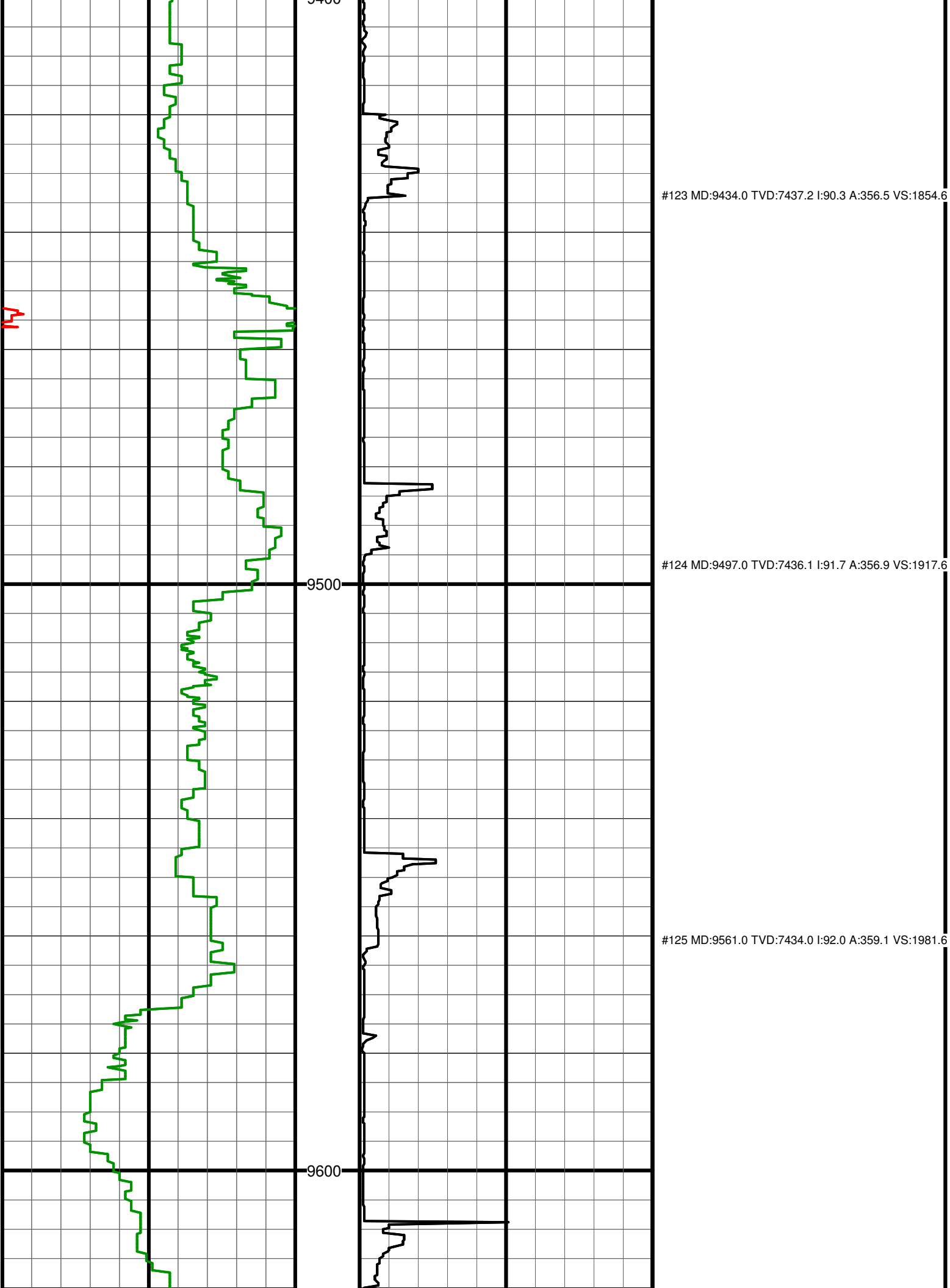

9000
9100
#118 MD:9056.0 TVD:7419.7 I:87.9 A:357.7 VS:1477.1
#119 MD:9150.0 TVD:7424.0 I:86.9 A:356.6 VS:1571.0

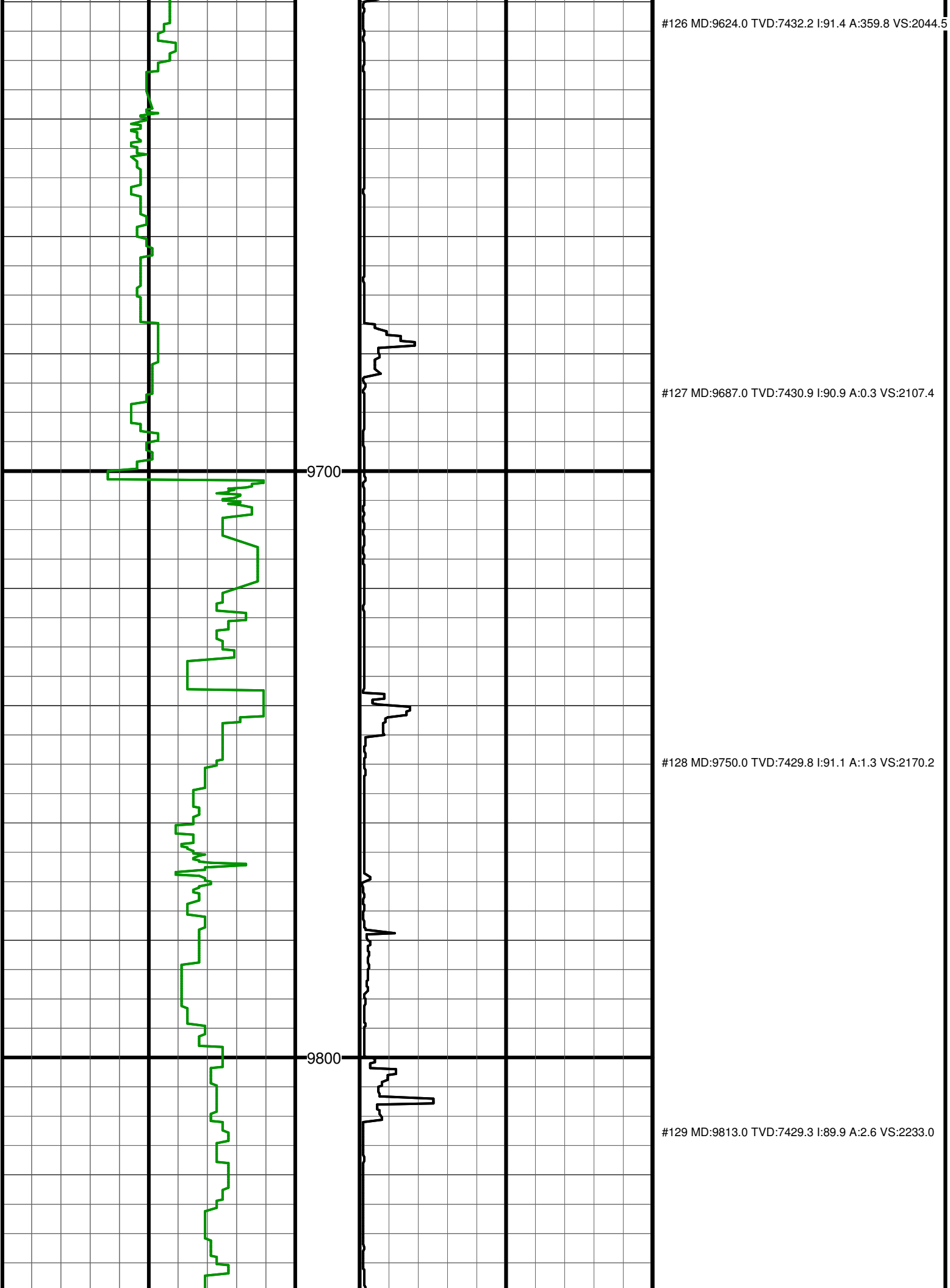


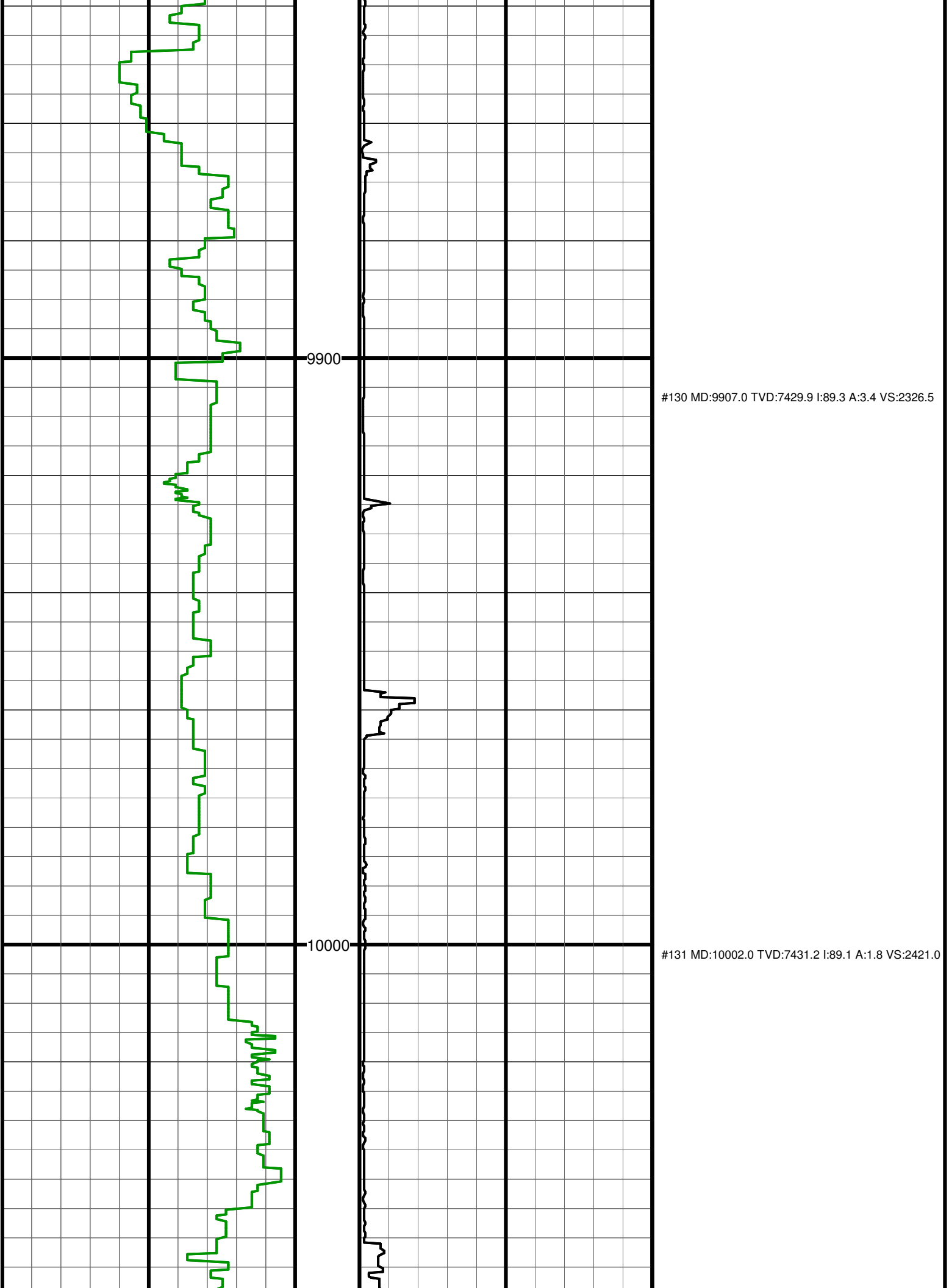

#120 MD:9245.0 TVD:7429.7 I:86.2 A:356.3 VS:1665.8

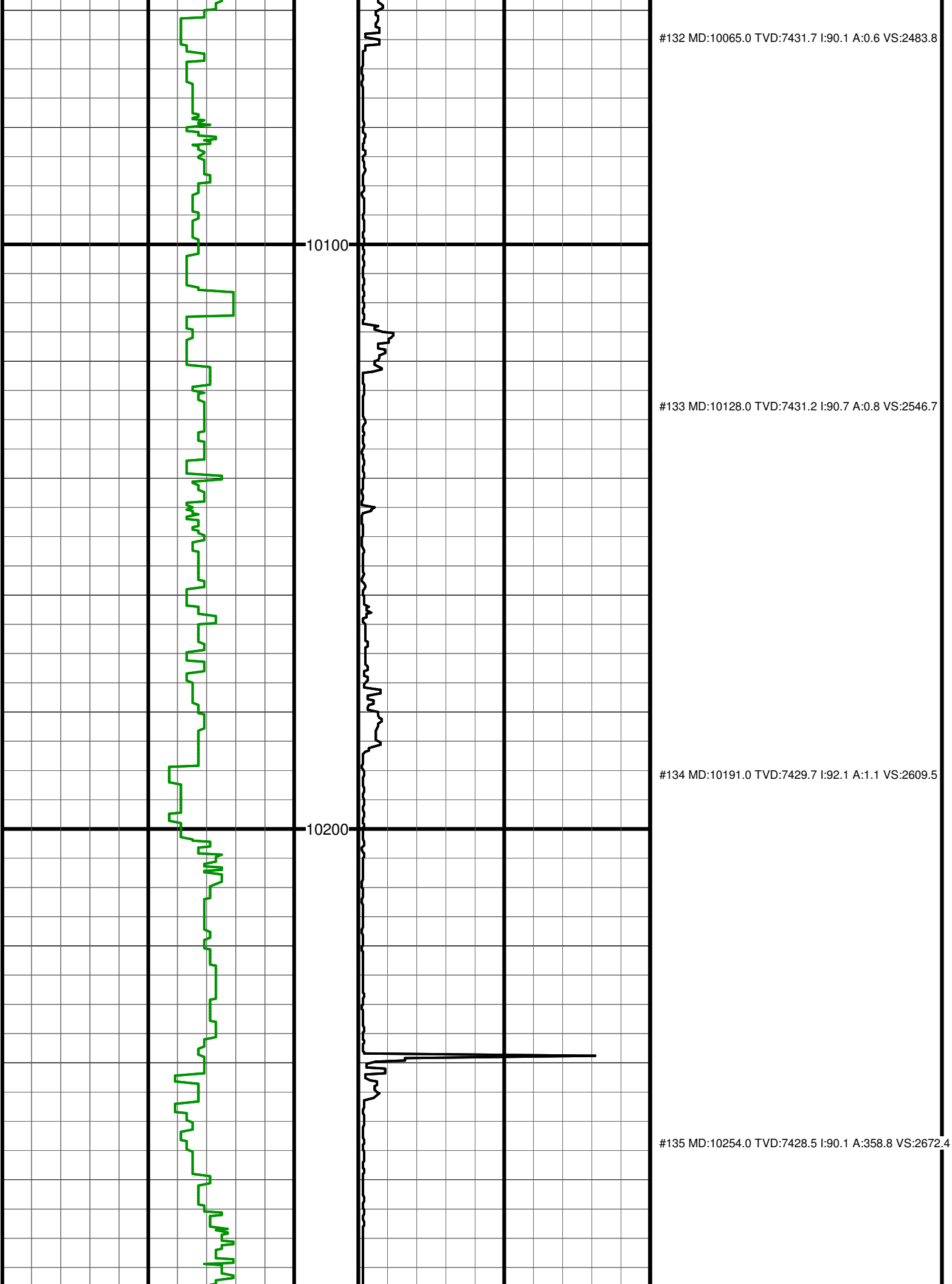
#121 MD:9308.0 TVD:7433.4 I:87.0 A:357.2 VS:1728.7

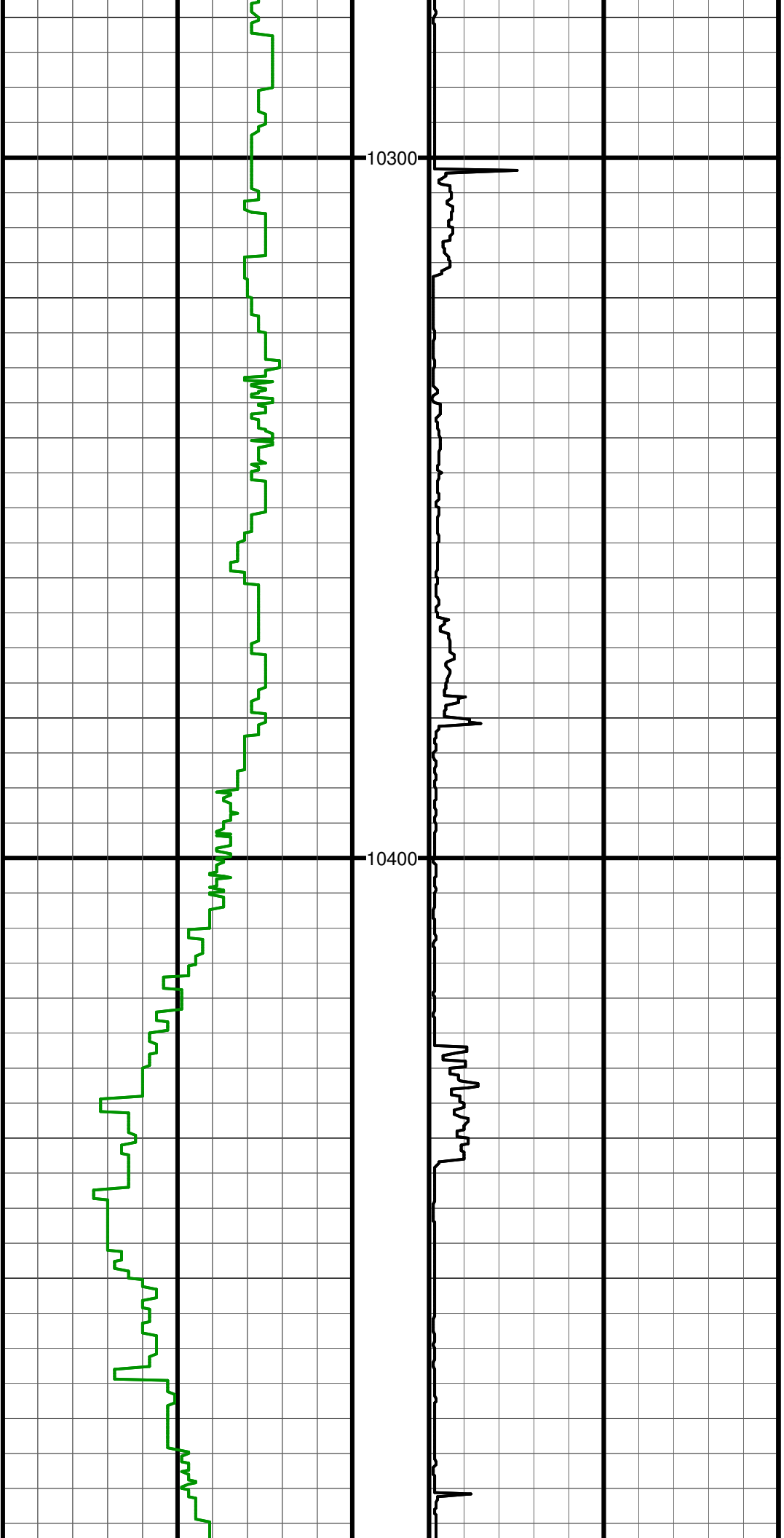
#122 MD:9371.0 TVD:7436.2 I:87.9 A:356.7 VS:1791.6


9400
#123 MD:9434.0 TVD:7437.2 I:90.3 A:356.5 VS:1854.6
#124 MD:9497.0 TVD:7436.1 I:91.7 A:356.9 VS:1917.6
9500
#125 MD:9561.0 TVD:7434.0 I:92.0 A:359.1 VS:1981.6
9600


#126 MD:9624.0 TVD:7432.2 I:91.4 A:359.8 VS:2044.5
#127 MD:9687.0 TVD:7430.9 I:90.9 A:0.3 VS:2107.4
9700
#128 MD:9750.0 TVD:7429.8 I:91.1 A:1.3 VS:2170.2
9800
#129 MD:9813.0 TVD:7429.3 I:89.9 A:2.6 VS:2233.0


9900
#130 MD:9907.0 TVD:7429.9 I:89.3 A:3.4 VS:2326.5
10000
#131 MD:10002.0 TVD:7431.2 I:89.1 A:1.8 VS:2421.0

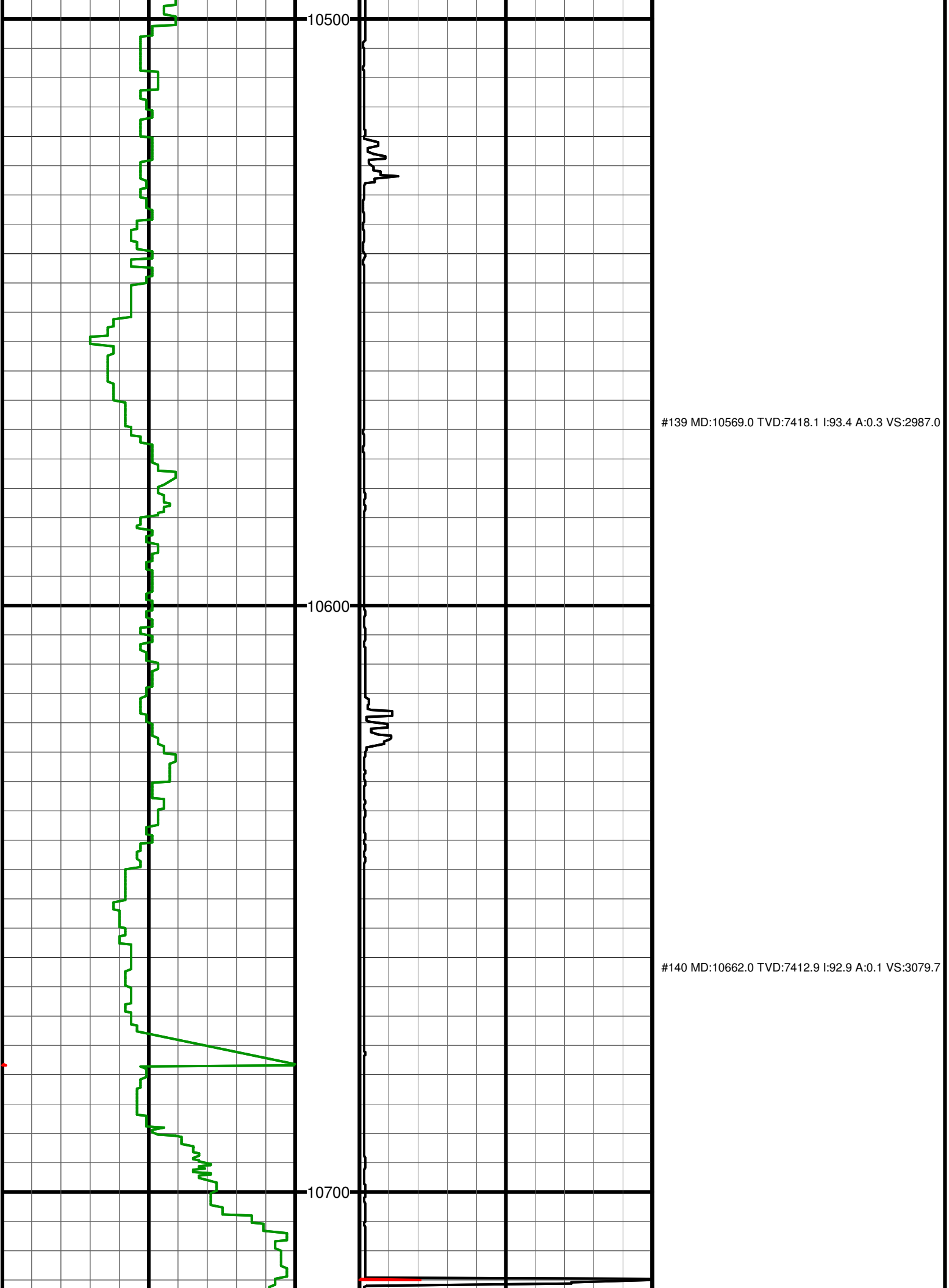

#132 MD:10065.0 TVD:7431.7 I:90.1 A:0.6 VS:2483.8
10100
#133 MD:10128.0 TVD:7431.2 I:90.7 A:0.8 VS:2546.7
#134 MD:10191.0 TVD:7429.7 I:92.1 A:1.1 VS:2609.5
10200
#135 MD:10254.0 TVD:7428.5 I:90.1 A:358.8 VS:2672.4

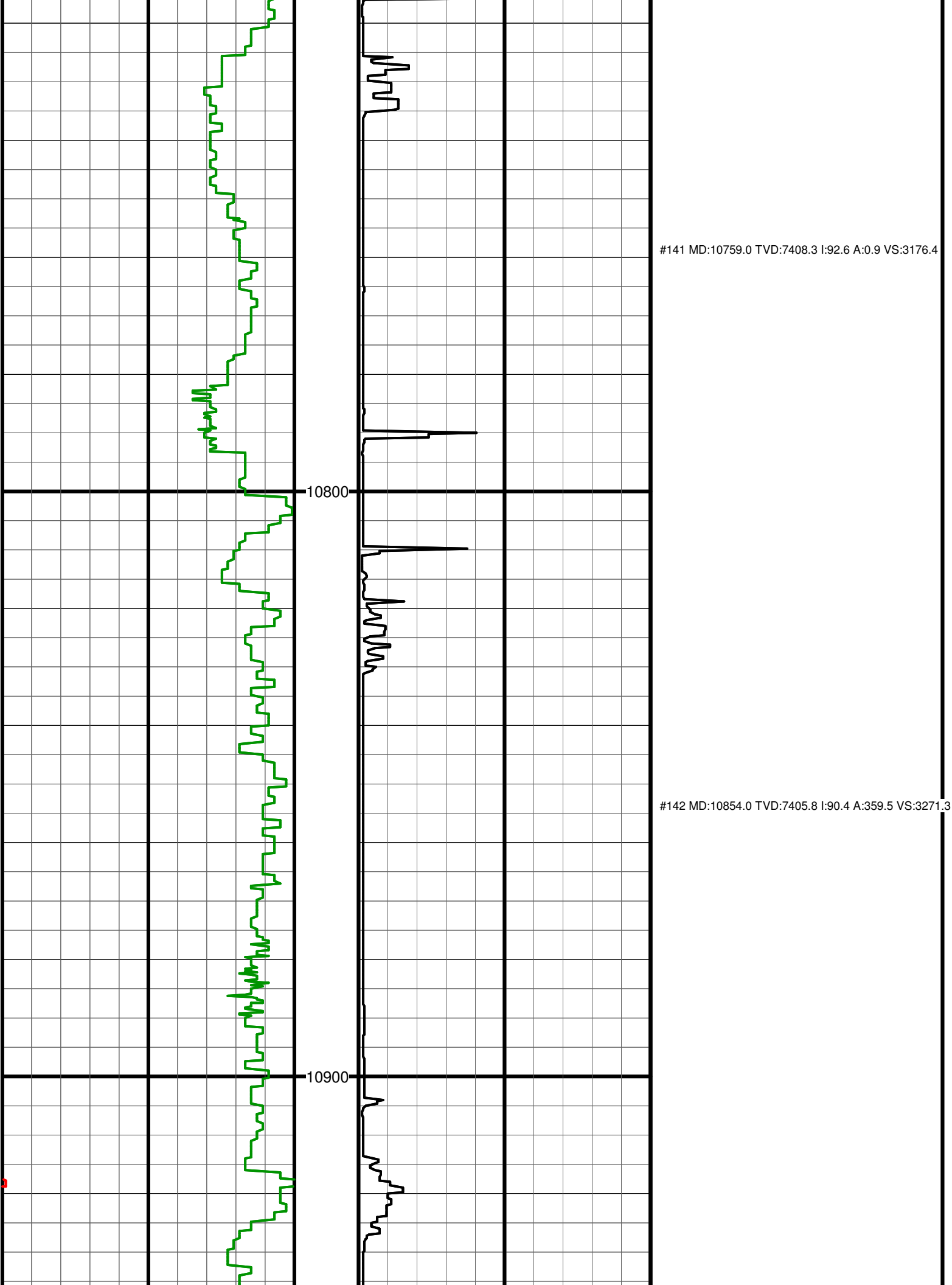


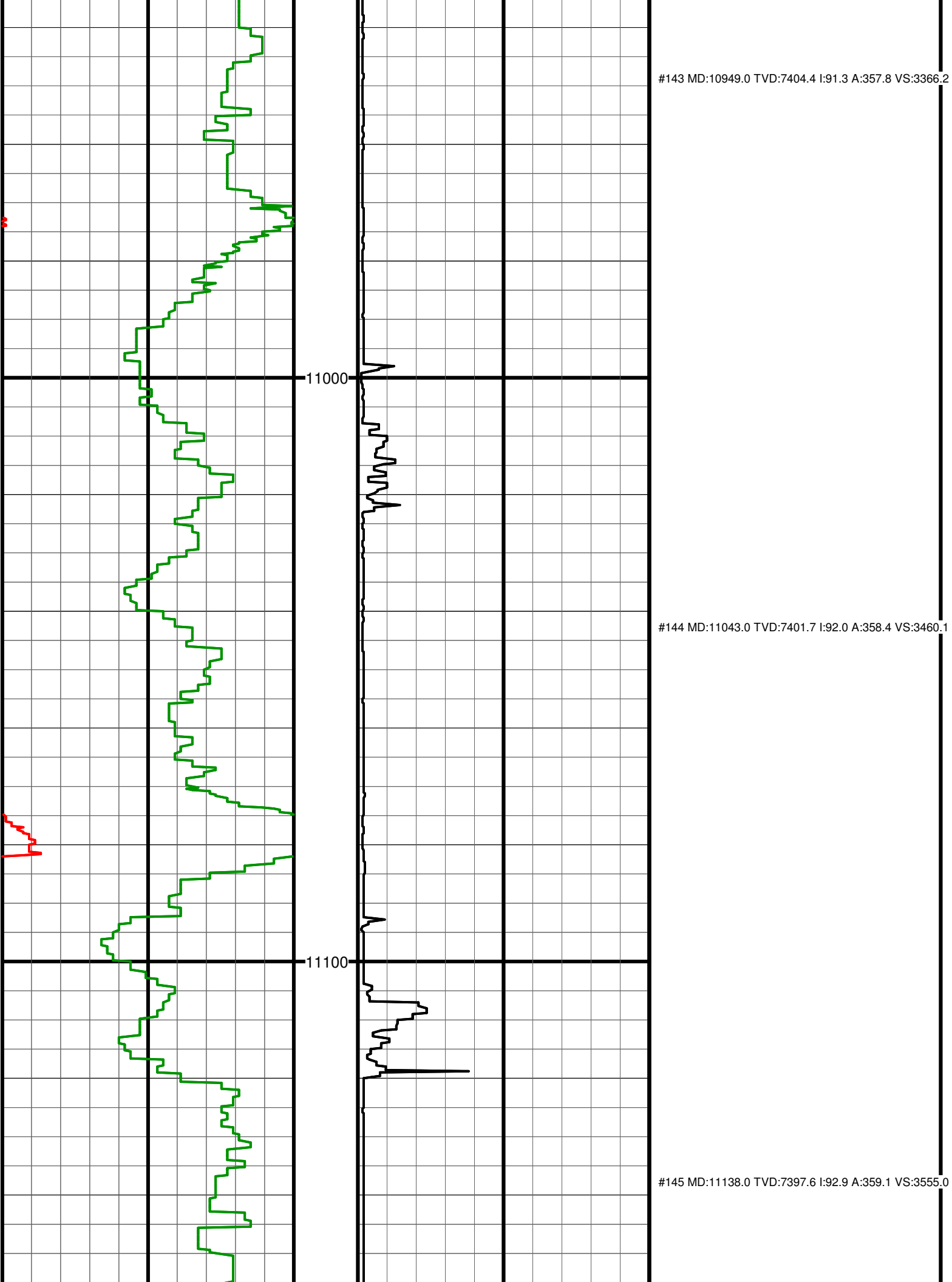

#136 MD:10317.0 TVD:7428.2 I:90.5 A:358.2 VS:2735.4

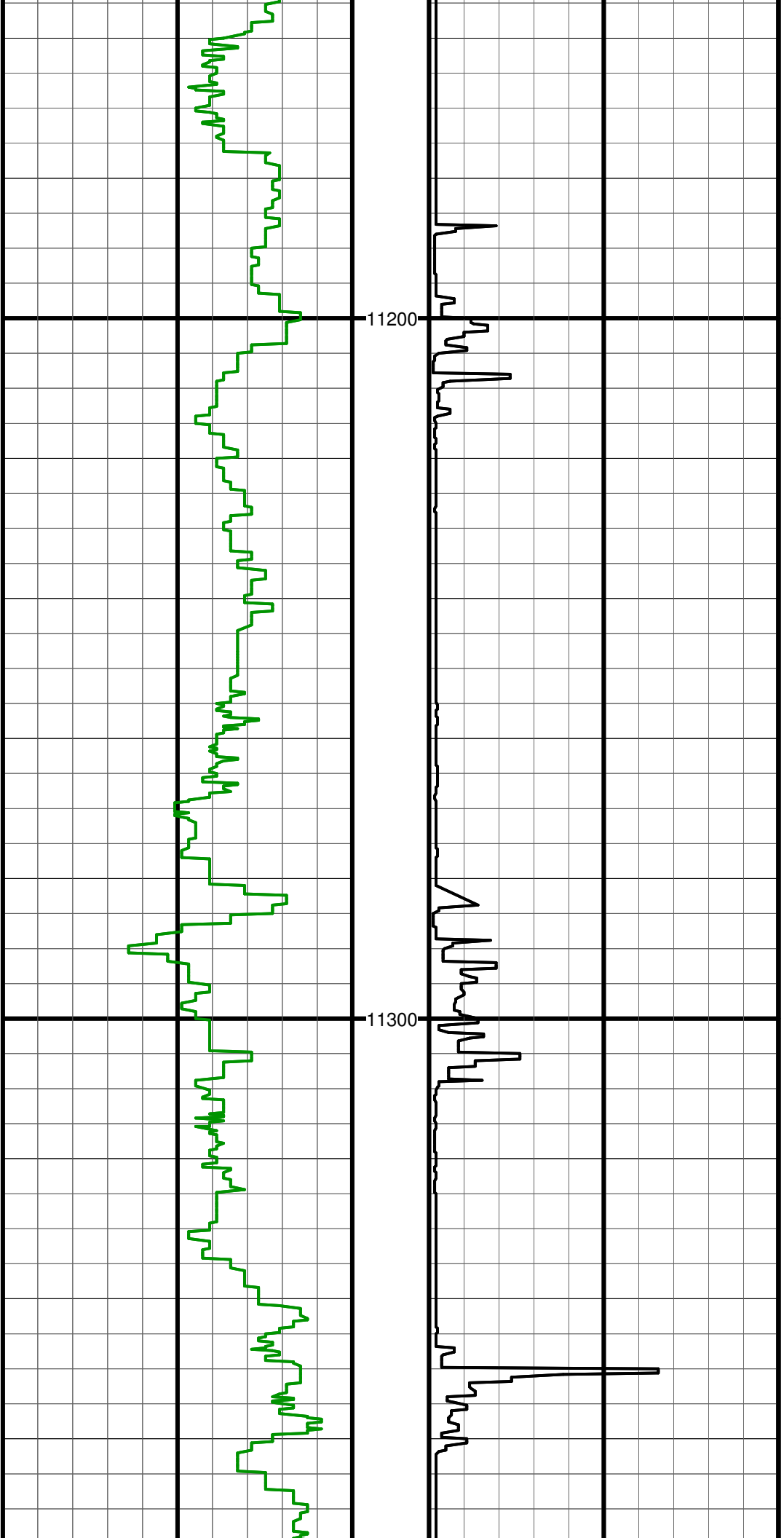
#137 MD:10380.0 TVD:7427.1 I:91.4 A:357.6 VS:2798.4

#138 MD:10475.0 TVD:7423.4 I:93.1 A:359.5 VS:2893.3


10500
10600
10700
#139 MD:10569.0 TVD:7418.1 I:93.4 A:0.3 VS:2987.0
#140 MD:10662.0 TVD:7412.9 I:92.9 A:0.1 VS:3079.7


#141 MD:10759.0 TVD:7408.3 I:92.6 A:0.9 VS:3176.4
10800
#142 MD:10854.0 TVD:7405.8 I:90.4 A:359.5 VS:3271.3
10900

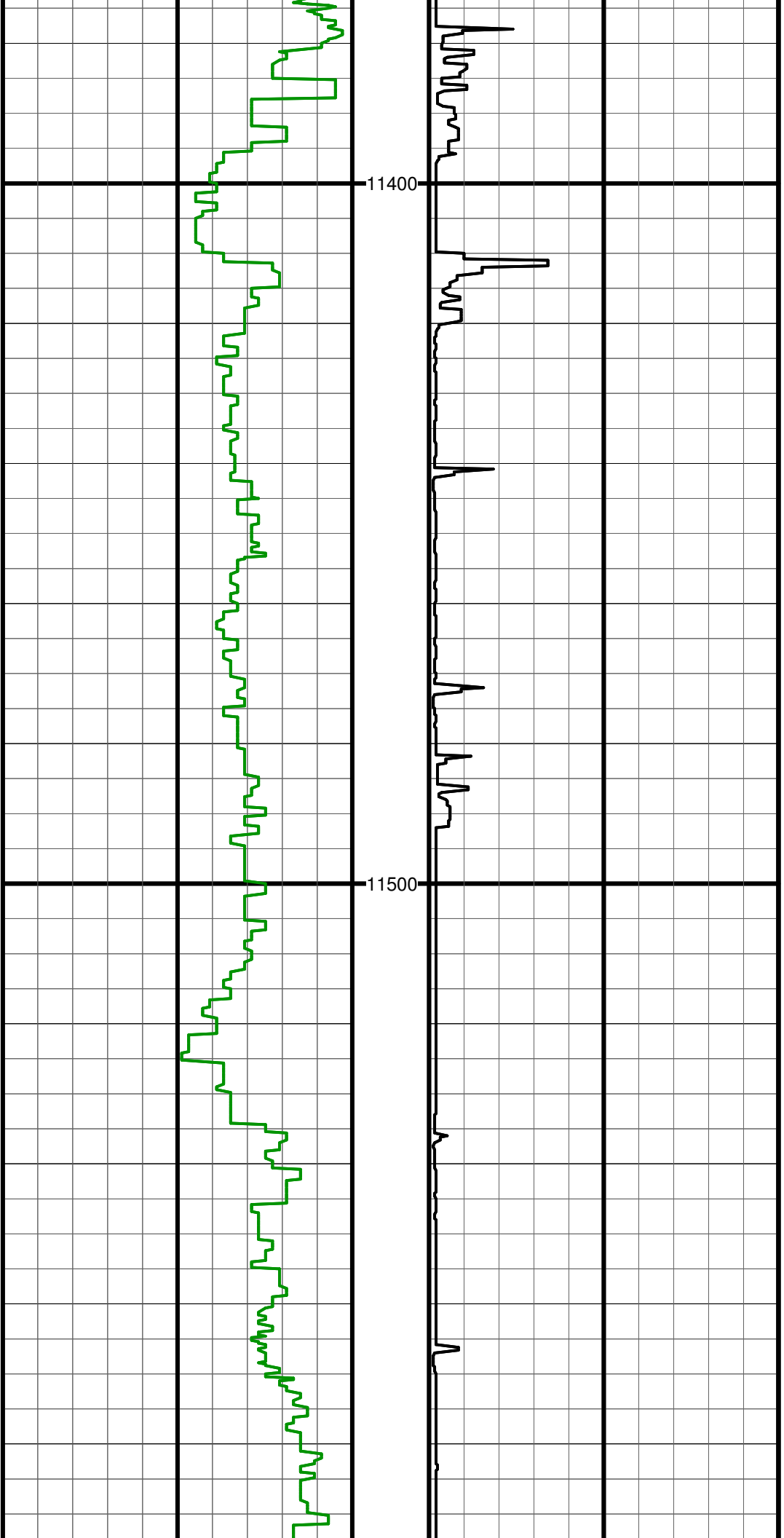

#143 MD:10949.0 TVD:7404.4 I:91.3 A:357.8 VS:3366.2
11000
#144 MD:11043.0 TVD:7401.7 I:92.0 A:358.4 VS:3460.1
11100
#145 MD:11138.0 TVD:7397.6 I:92.9 A:359.1 VS:3555.0




#146 MD:11233.0 TVD:7392.1 I:93.8 A:0.7 VS:3649.7

#147 MD:11296.0 TVD:7387.7 I:94.2 A:0.9 VS:3712.4

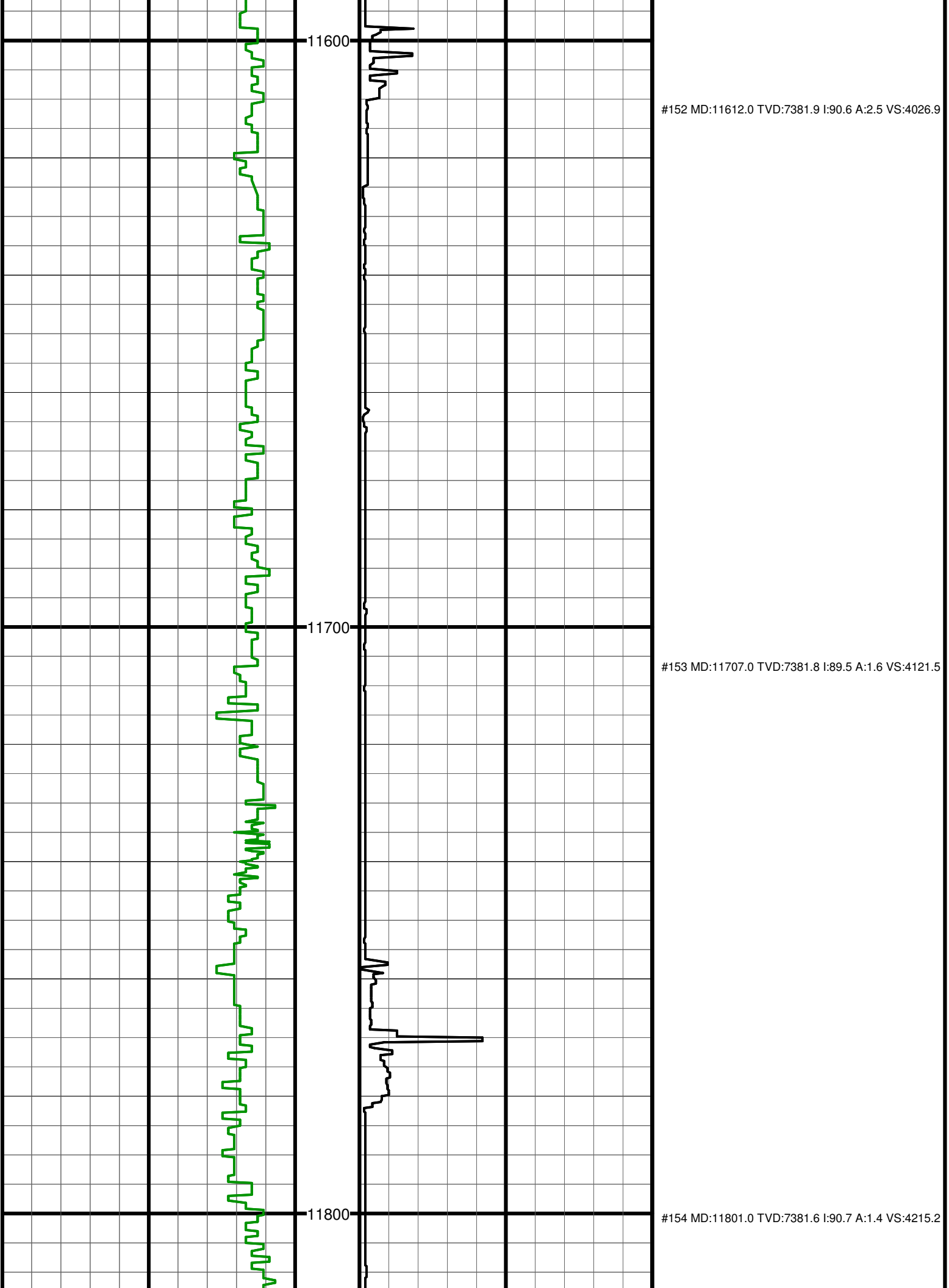
#148 MD:11359.0 TVD:7383.6 I:93.3 A:1.1 VS:3775.1

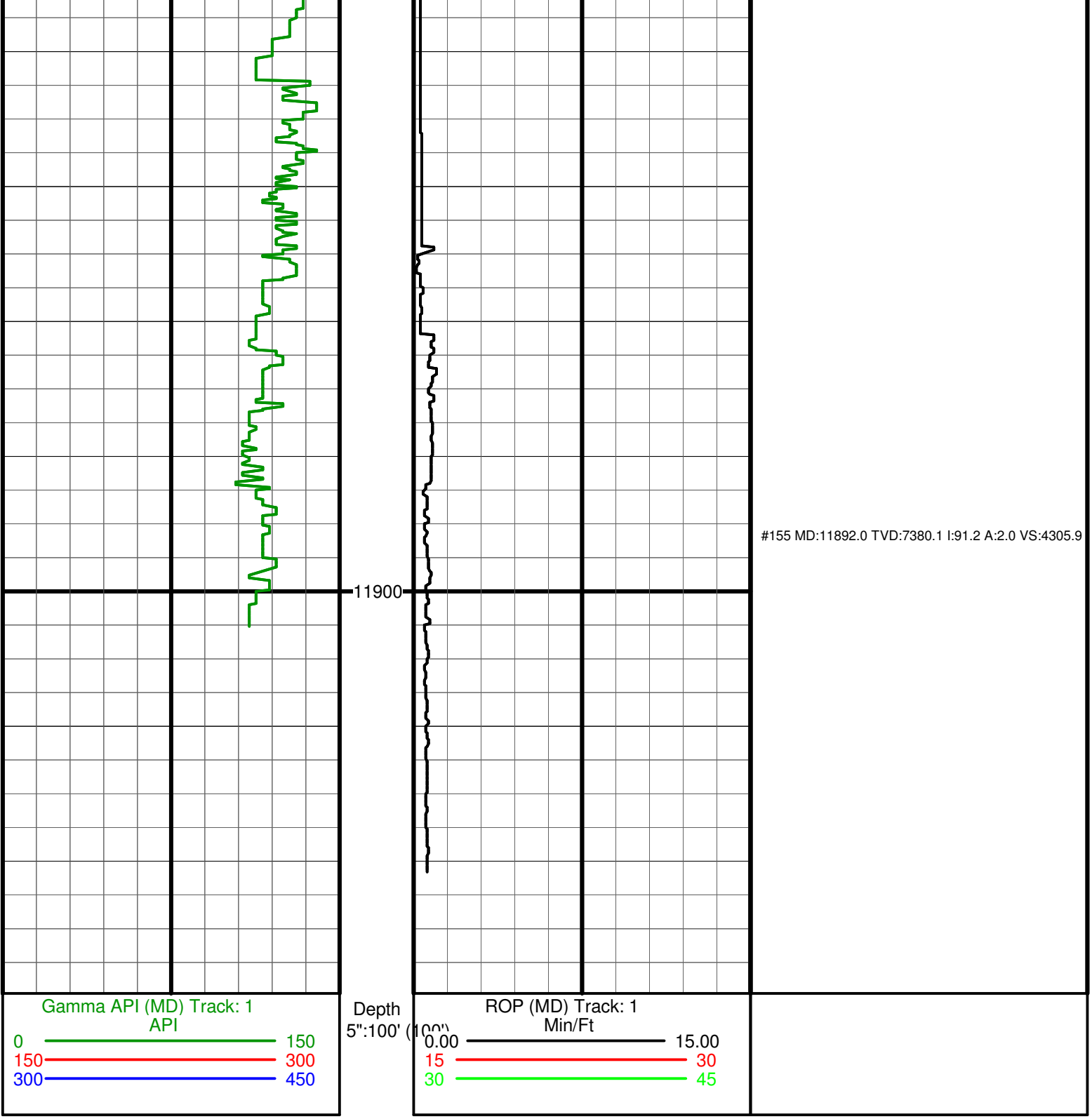



#149 MD:11422.0 TVD:7381.7 I:90.0 A:3.2 VS:3837.9

#150 MD:11486.0 TVD:7381.8 I:89.9 A:2.9 VS:3901.5

#151 MD:11549.0 TVD:7382.0 I:89.7 A:2.8 VS:3964.2


11600
11700
11800
#152 MD:11612.0 TVD:7381.9 I:90.6 A:2.5 VS:4026.9
#153 MD:11707.0 TVD:7381.8 I:89.5 A:1.6 VS:4121.5
#154 MD:11801.0 TVD:7381.6 I:90.7 A:1.4 VS:4215.2


#155 MD:11892.0 TVD:7380.1 I:91.2 A:2.0 VS:4305.9
11900
Gamma API (MD) Track: 1
API
0
150
150
300
300
450
Depth
5":100' (100')
ROP (MD) Track: 1
Min/Ft
0.00
15.00
15
30
30
45