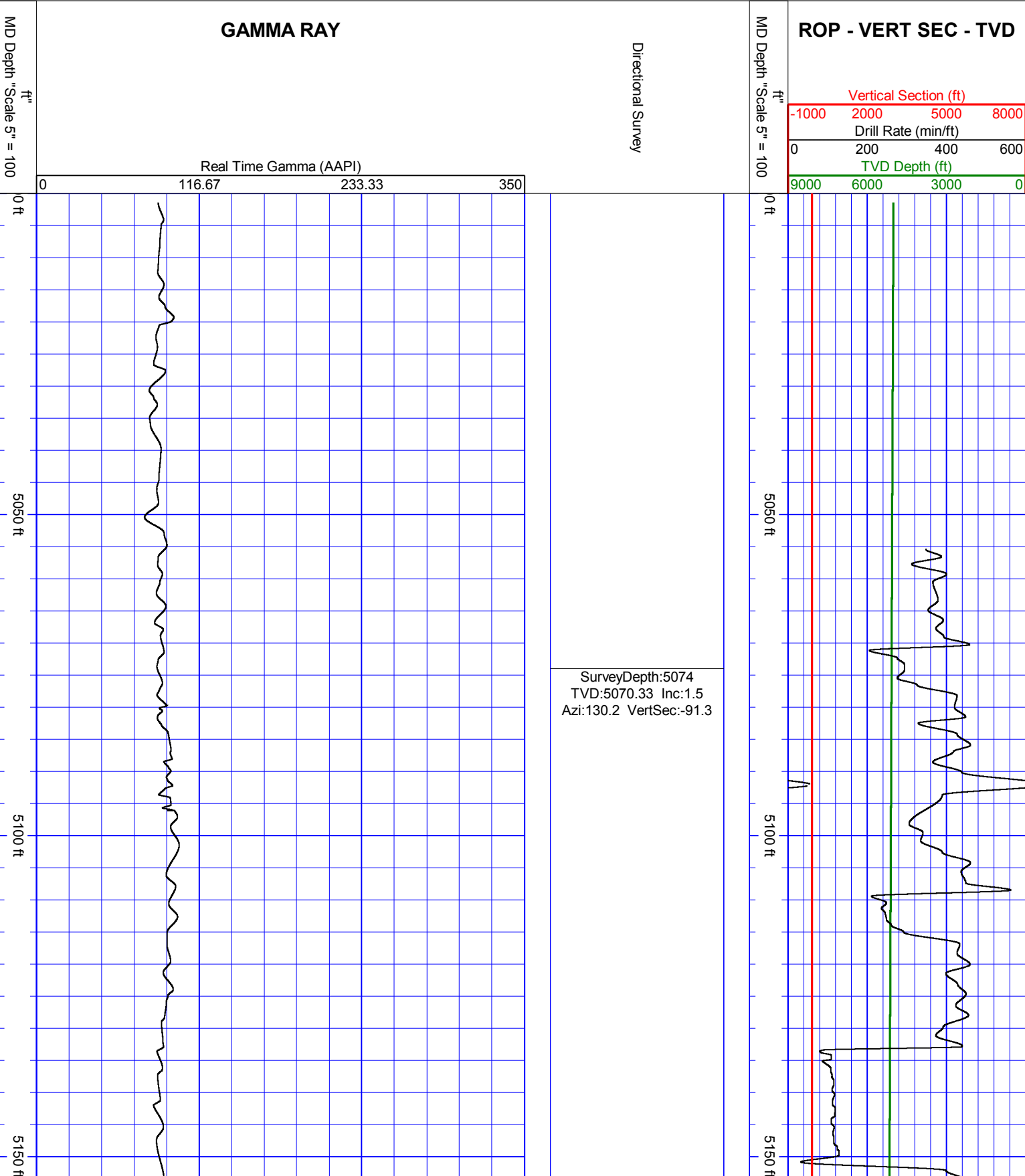




Oil Company: Whiting Oil and Petroleum
Well Name: Razor 21B-0910B
Surface Location: S21-T10N-R58W
Bit Run: 3
Log Depth Start: 5000.00 ft Log Depth End: 13996.98 ft
Data Depth Start: 5001.44 ft Data Depth End: 13996.98 ft

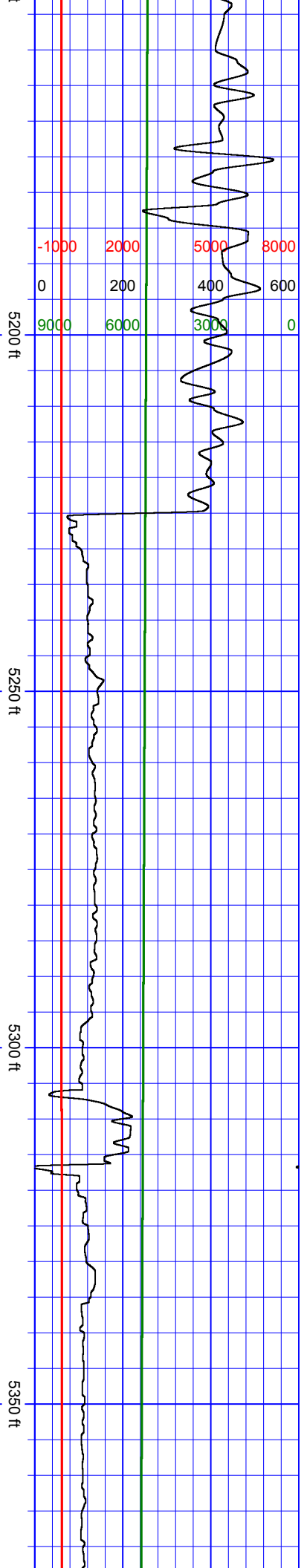
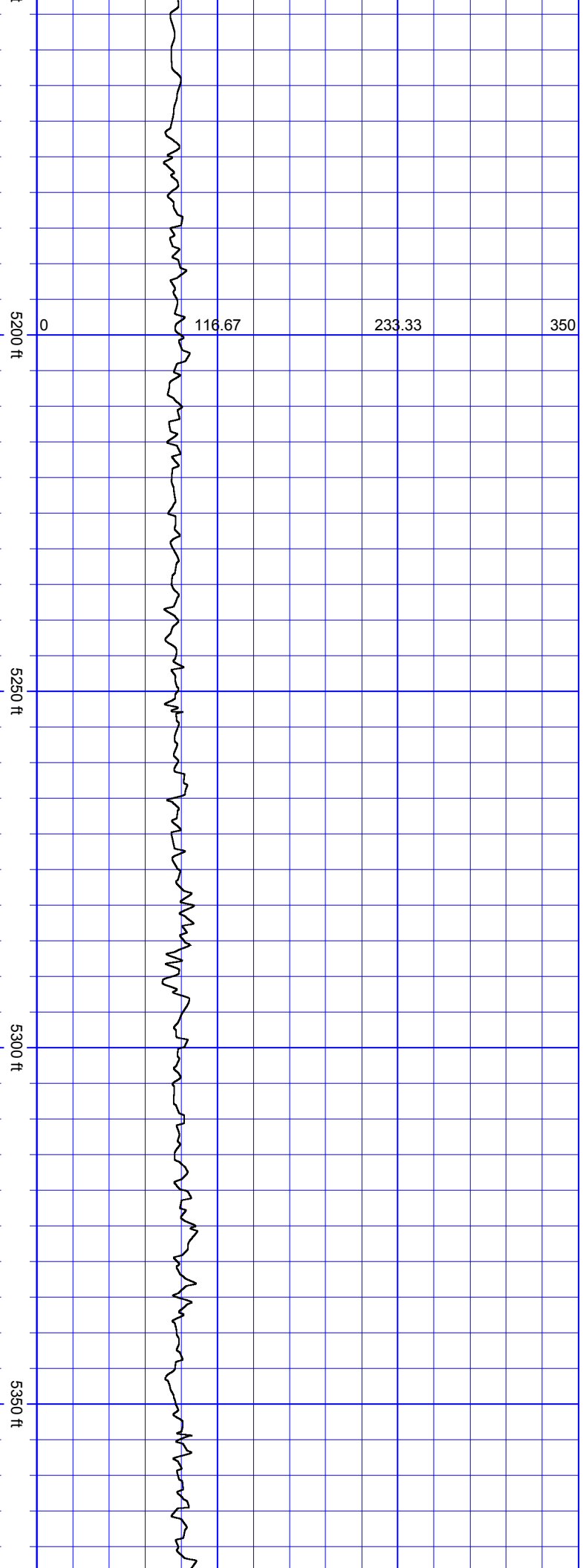
Interpretations of this data by Cathedral Energy Services will be of best judgment as to correctness. Cathedral Energy Services cannot and does not guarantee the accuracy or correctness of interpretations or any surveys derived therefrom. Cathedral Energy Services makes no warranties of performance, results, fitness or suitability for any particular purposes with respect to the goods being furnished under the terms and conditions. Cathedral Energy Services warrants that the equipment furnished will conform to Cathedral Energy Services published specifications in effect at the time and be in good working order.

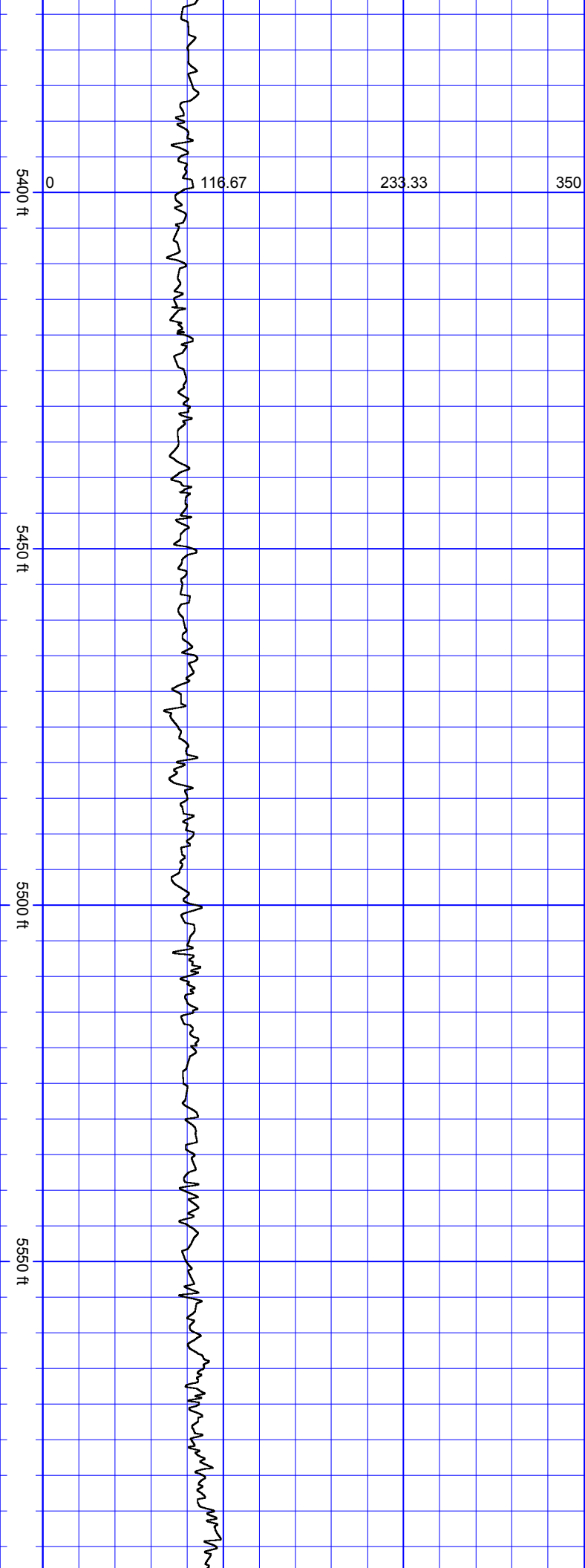


SurveyDepth:5166
TVD:5162.31 Inc:1.8
Azi:10.3 VertSec:-90.67

SurveyDepth:5258
TVD:5254.1 Inc:5.6
Azi:7.7 VertSec:-84.81

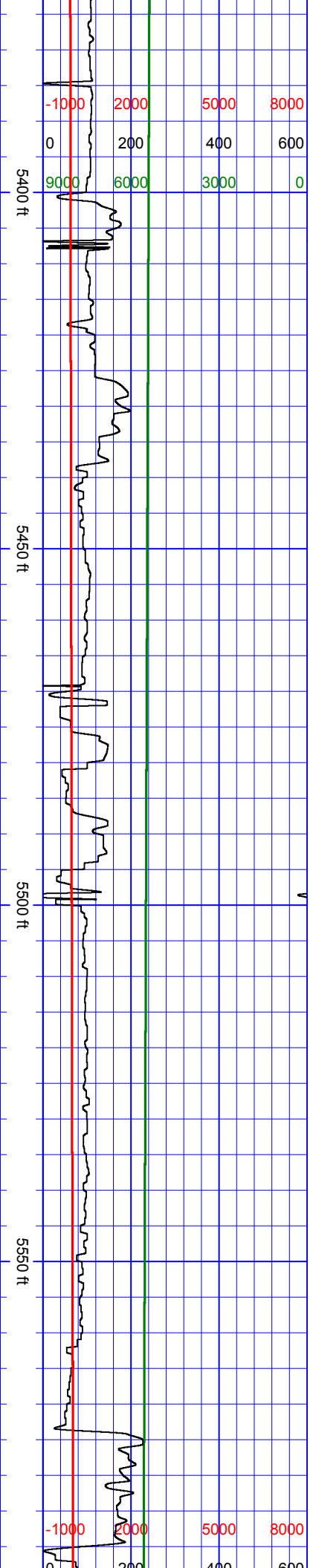
SurveyDepth:5348
TVD:5342.43 Inc:15.8
Azi:14.9 VertSec:-68.61

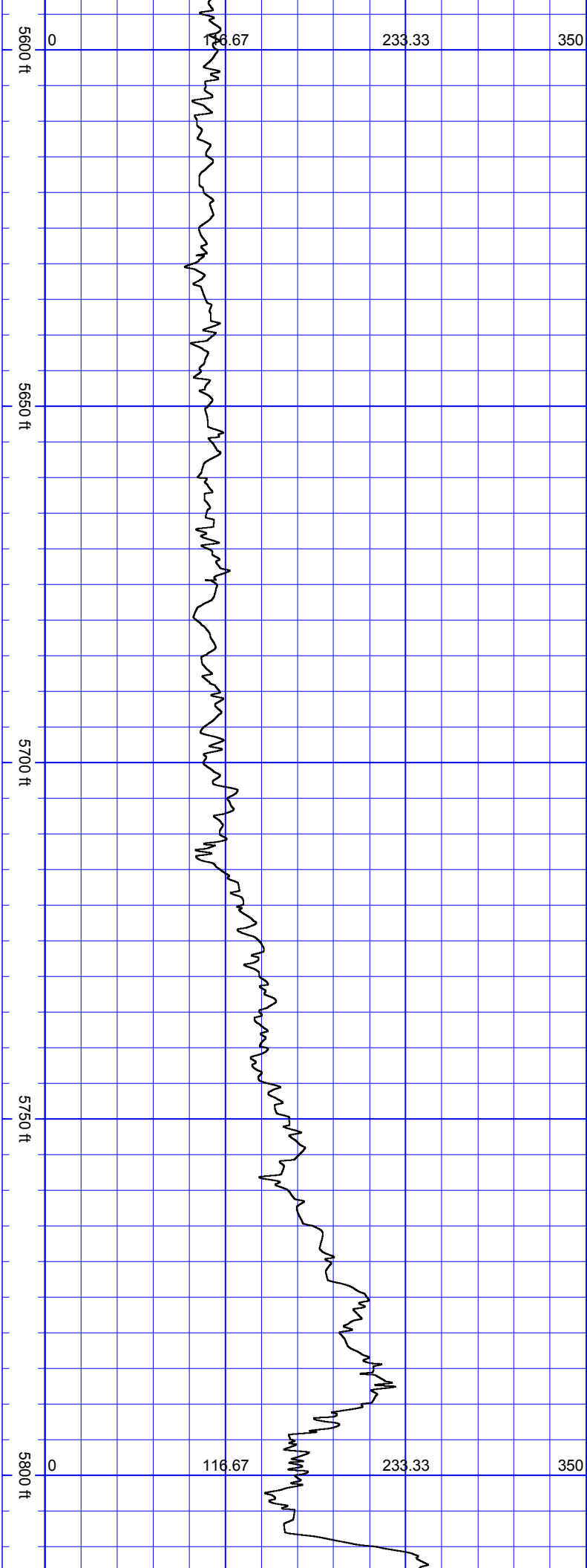




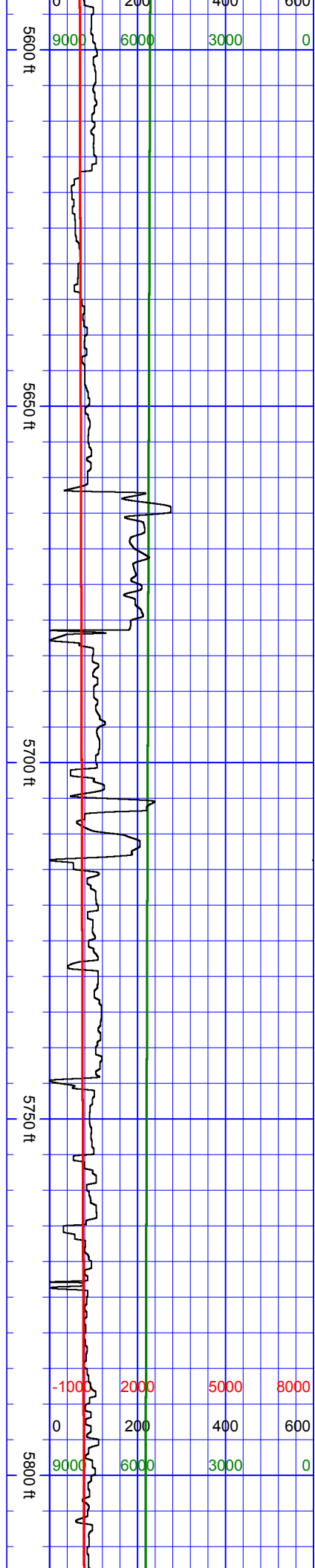
SurveyDepth:5440
TVD:5428.53 Inc:25.1
Azi:16.2 VertSec:-37.8

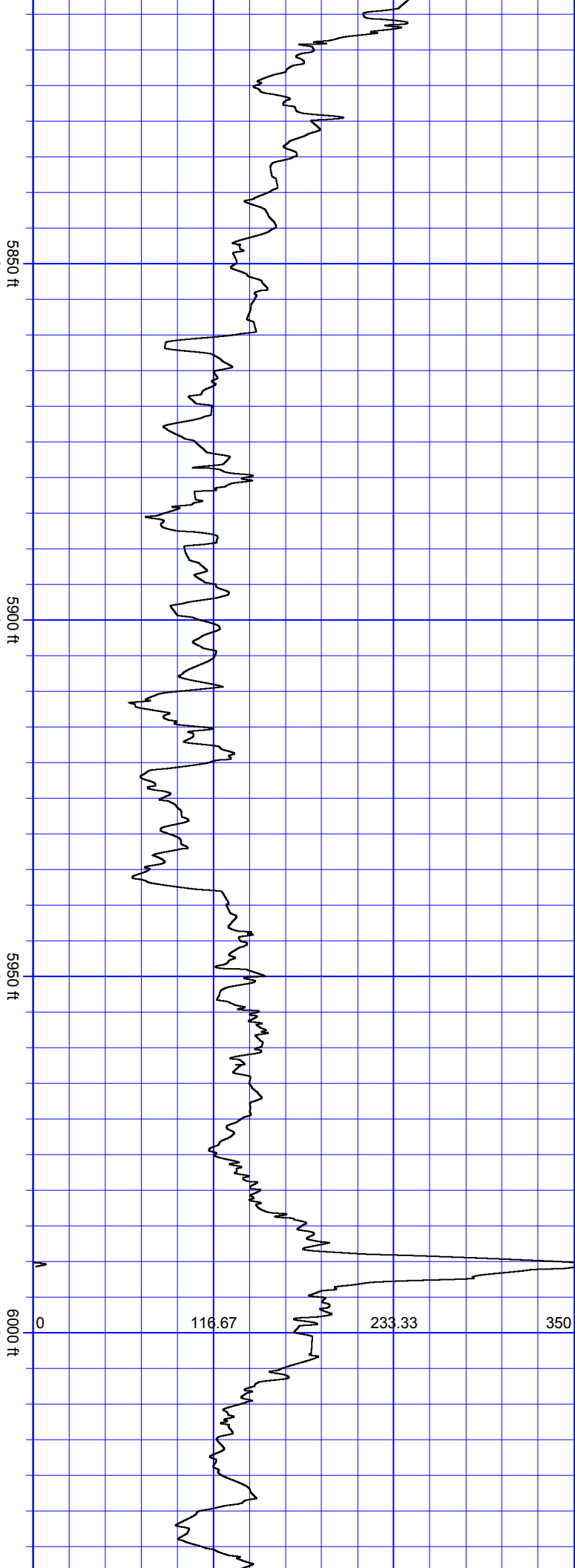
SurveyDepth:5532
TVD:5509.86 Inc:30.6
Azi:10.8 VertSec:3.87



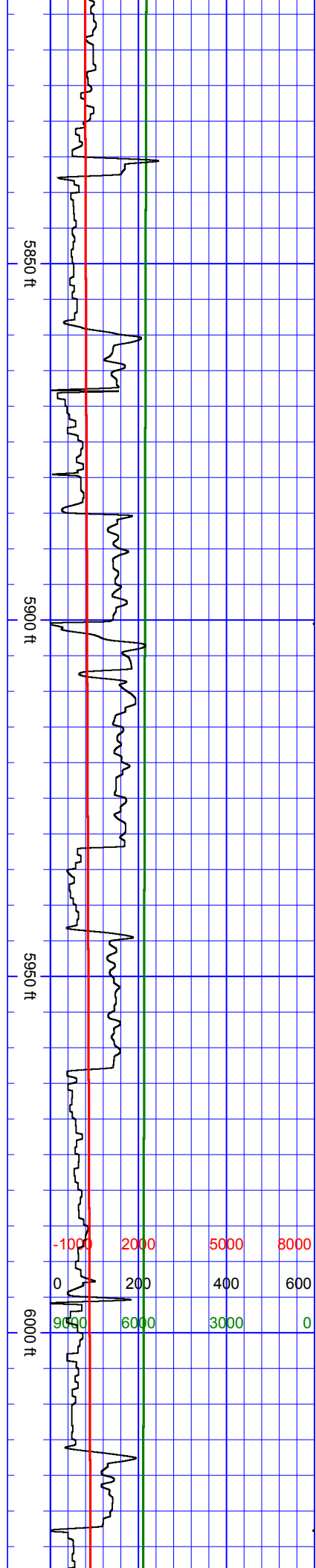


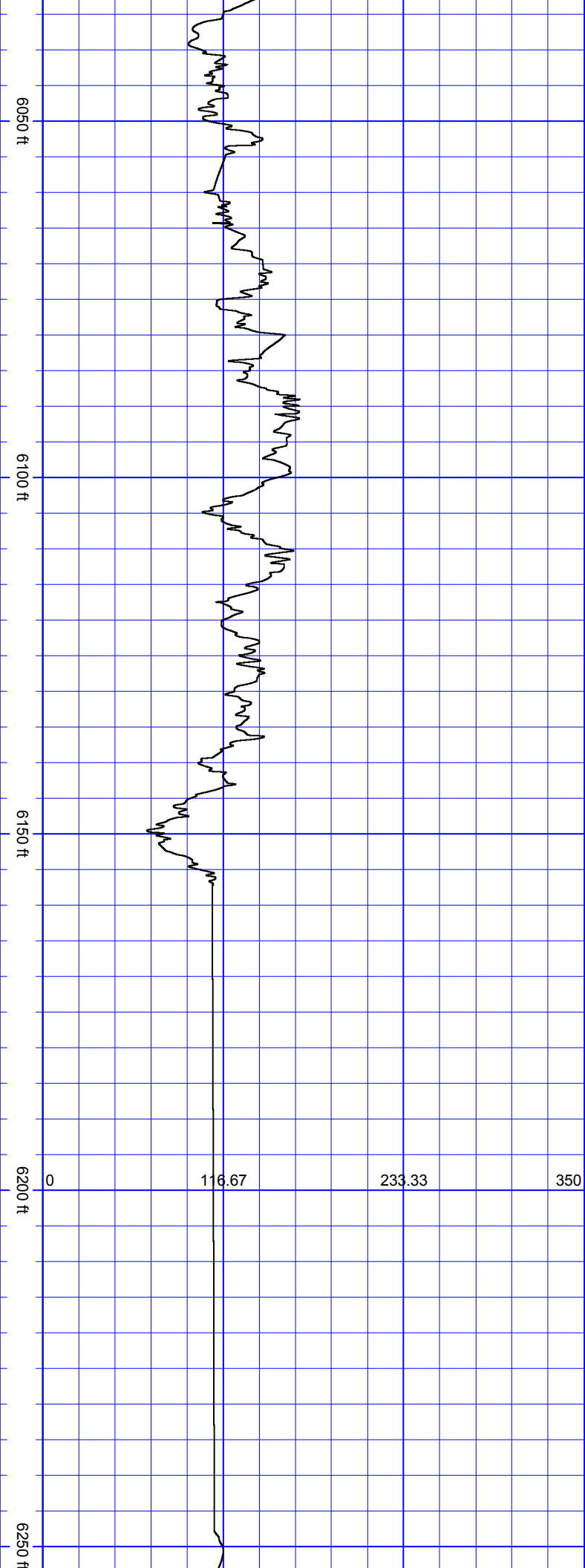
SurveyDepth:5623 TVD:5585.7 Inc:36.5 Azi:2.8 VertSec:53.66
SurveyDepth:5654 TVD:5610.11 Inc:39.6 Azi:2.1 VertSec:72.74
SurveyDepth:5684 TVD:5633.01 Inc:40.9 Azi:1.9 VertSec:92.1
SurveyDepth:5747 TVD:5679.22 Inc:44.7 Azi:1.5 VertSec:134.87
SurveyDepth:5778 TVD:5700.68 Inc:47.7 Azi:358.8 VertSec:157.23
SurveyDepth:5809 TVD:5720.67 Inc:52.2 Azi:358.8 VertSec:157.23





TVD:5720.07 Inc:52 Azi:356.5 VertSec:180.91
SurveyDepth:5842 TVD:5739.96 Inc:56.4 Azi:356.4 VertSec:207.63
SurveyDepth:5873 TVD:5756.41 Inc:59.5 Azi:357 VertSec:233.87
SurveyDepth:5904 TVD:5772.12 Inc:59.6 Azi:356.6 VertSec:260.57
SurveyDepth:5937 TVD:5788.47 Inc:61 Azi:356.4 VertSec:289.2
SurveyDepth:5969 TVD:5803.52 Inc:62.9 Azi:356.7 VertSec:317.4
SurveyDepth:5999 TVD:5816.13 Inc:67.4 Azi:357.8 VertSec:344.6
SurveyDepth:6032





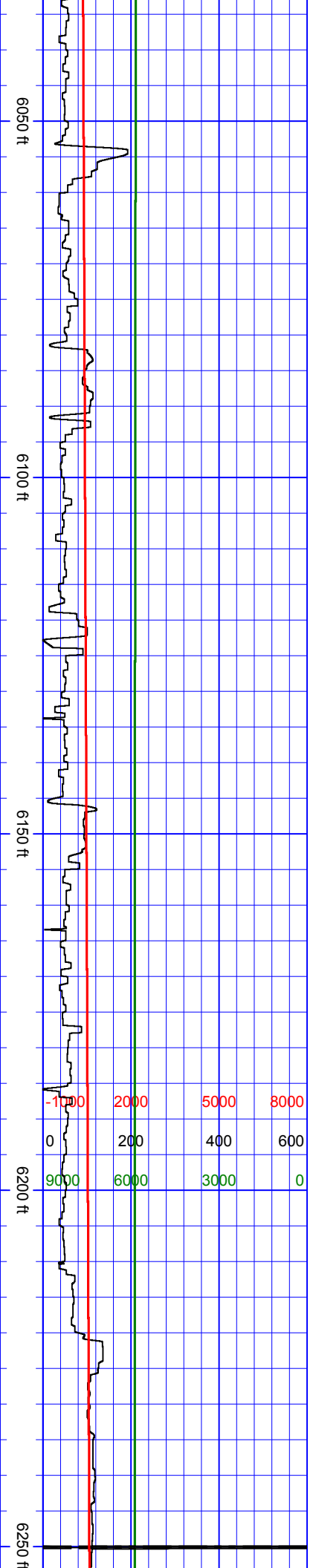
SurveyDepth:6032
TVD:5828.19 Inc:69.7
Azi:358.7 VertSec:375.3

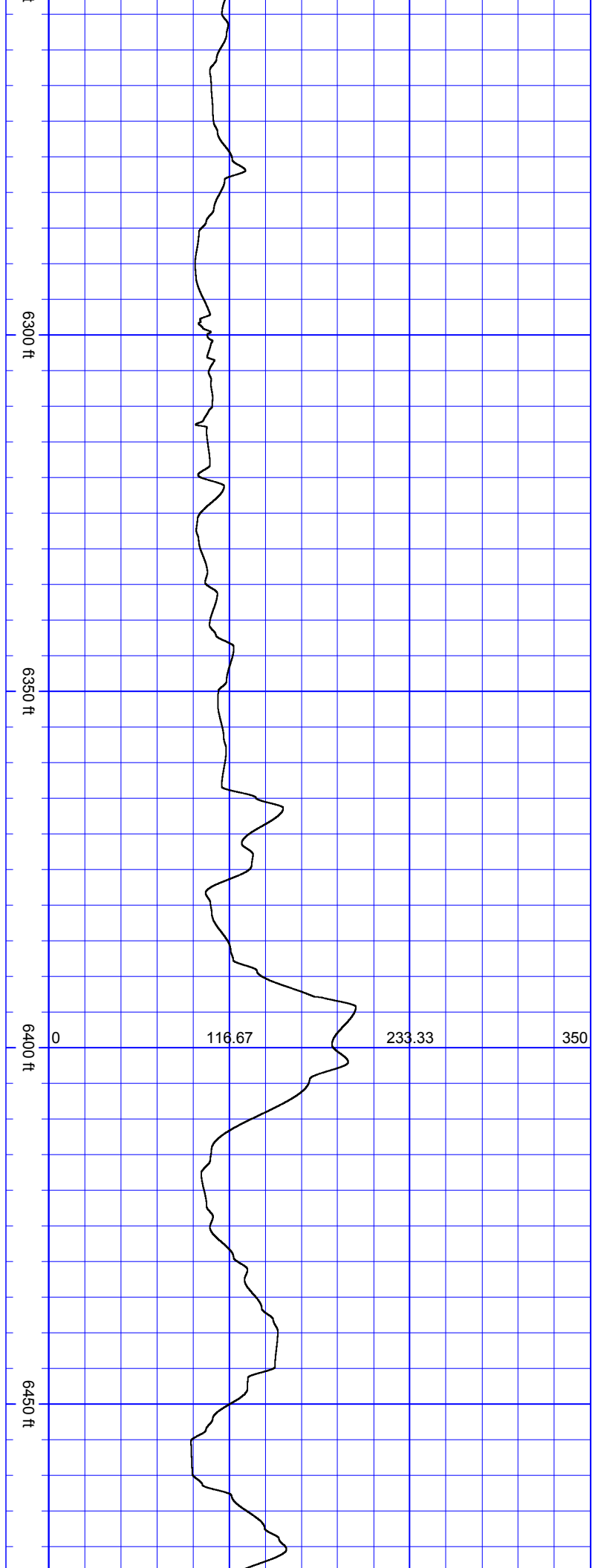
SurveyDepth:6064
TVD:5838.42 Inc:73
Azi:359.2
VertSec:405.62

SurveyDepth:6094
TVD:5846.54 Inc:75.6
Azi:359.6 VertSec:434.5

SurveyDepth:6127
TVD:5854.02 Inc:78.2
Azi:359.5
VertSec:466.64

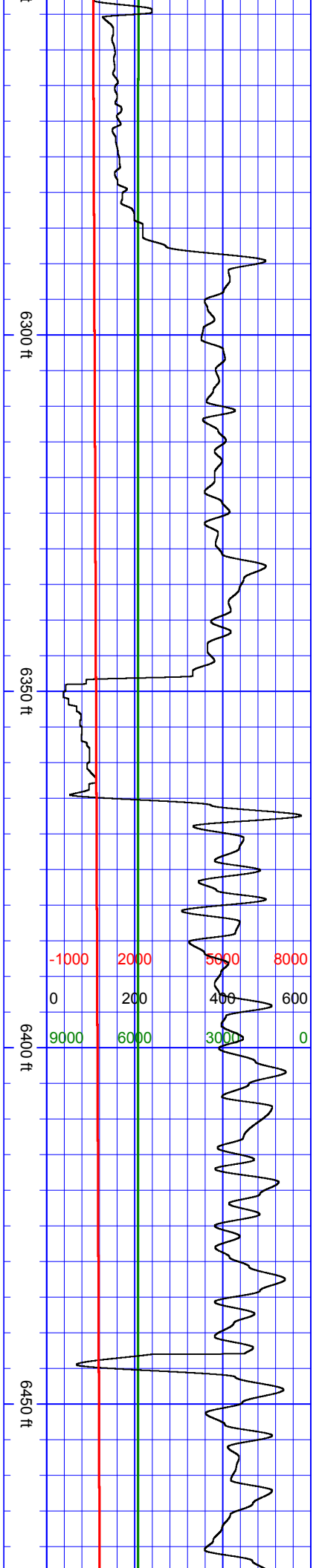
SurveyDepth:6152
TVD:5858.64 Inc:80.5
Azi:359.3 VertSec:491.2

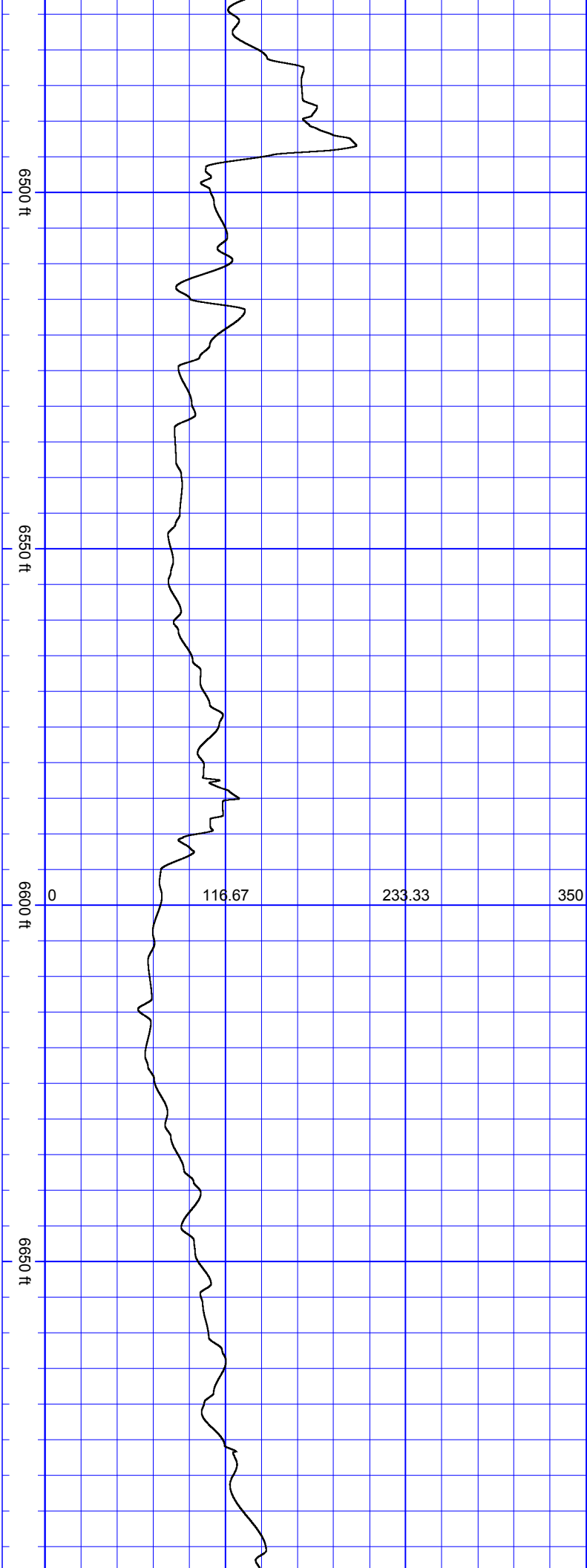




SurveyDepth:6292
TVD:5872.78 Inc:87.9
Azi:0.6 VertSec:630.38

SurveyDepth:6387
TVD:5873.77 Inc:90.9
Azi:0.9 VertSec:725.34

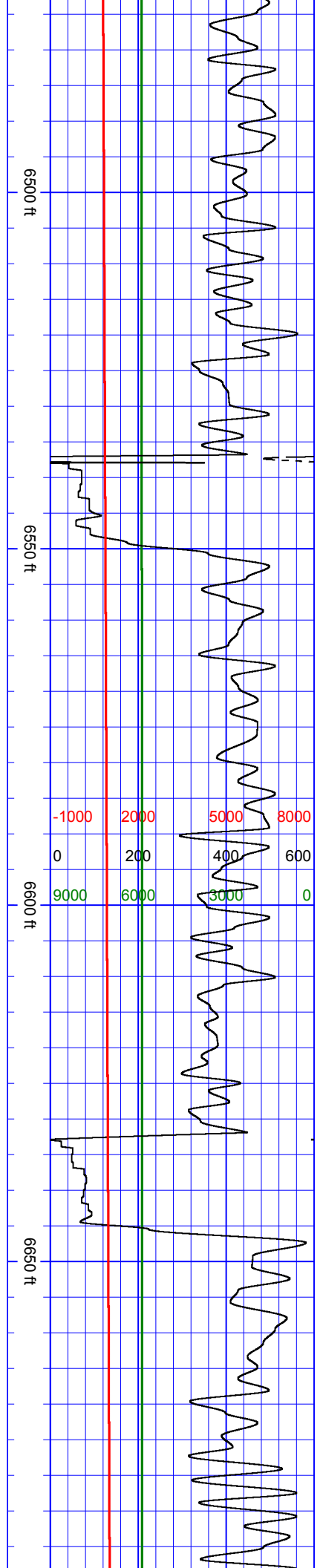


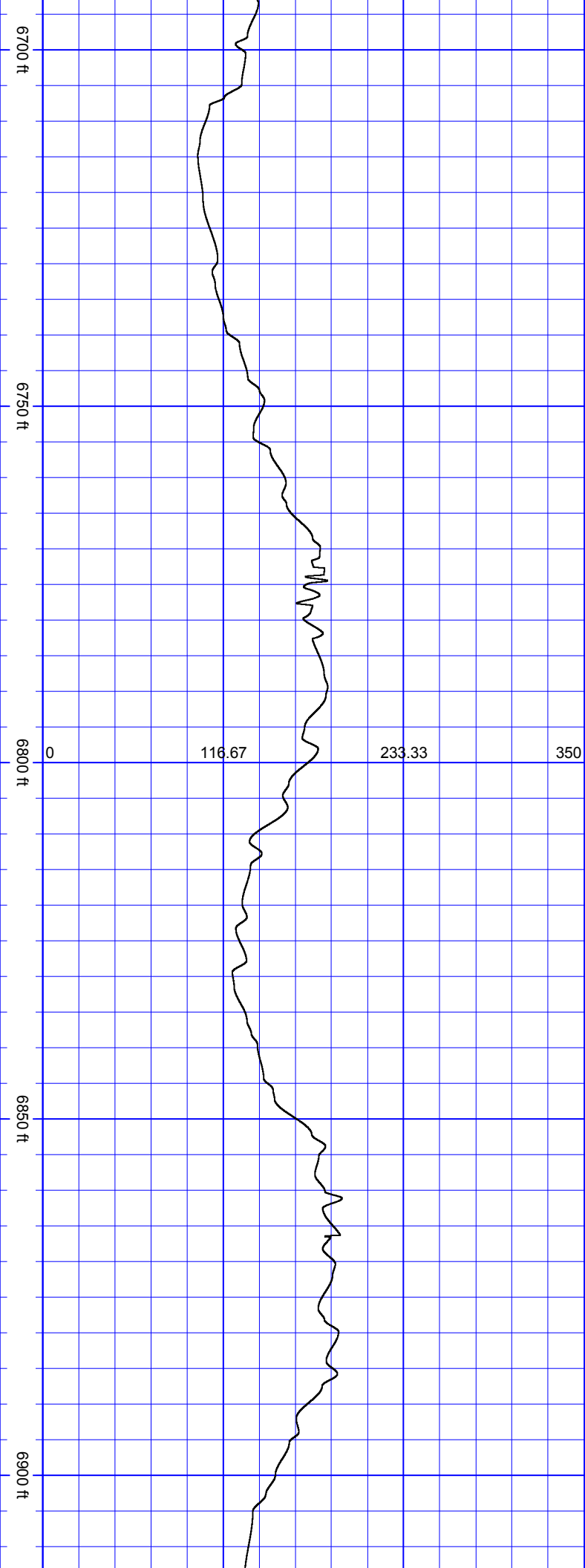


SurveyDepth:6482
TVD:5871.7 Inc:91.6
Azi:0.8 VertSec:820.28

SurveyDepth:6576
TVD:5869.4 Inc:91.2
Azi:0.7 VertSec:914.23

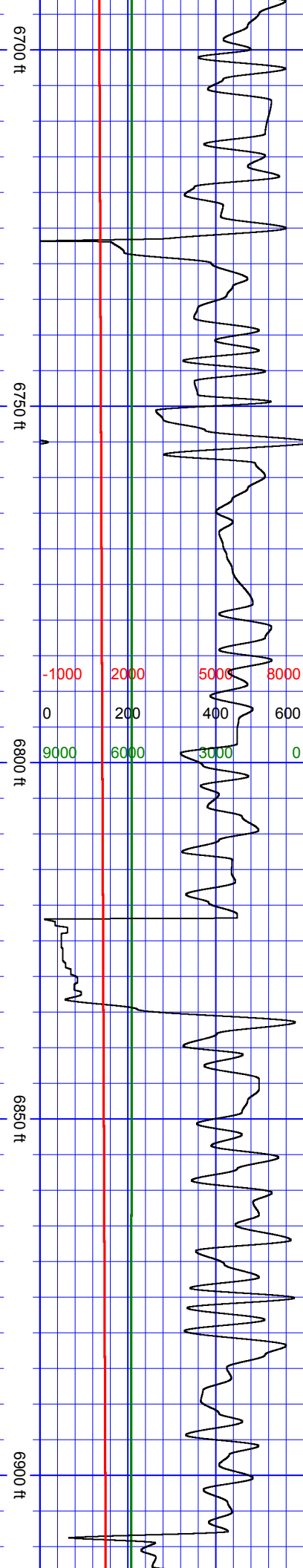
SurveyDepth:6671
TVD:5868.58 Inc:89.8
Azi:359.9
VertSec:1009.21

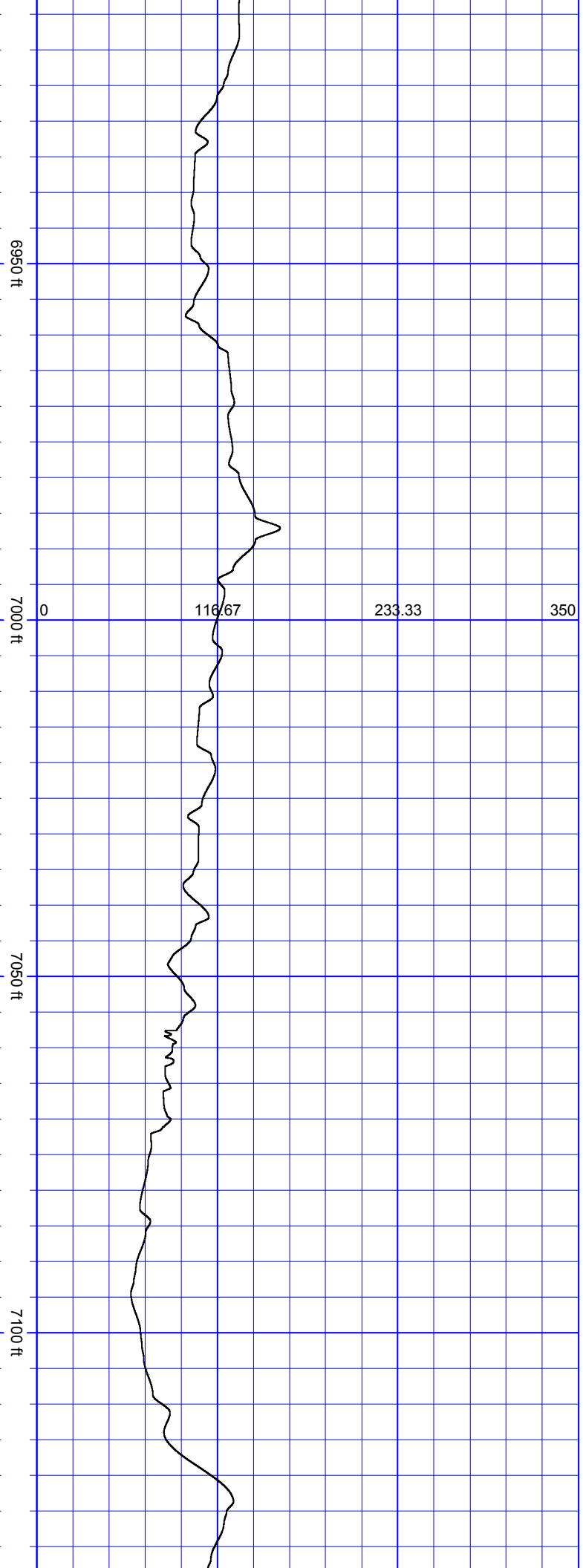
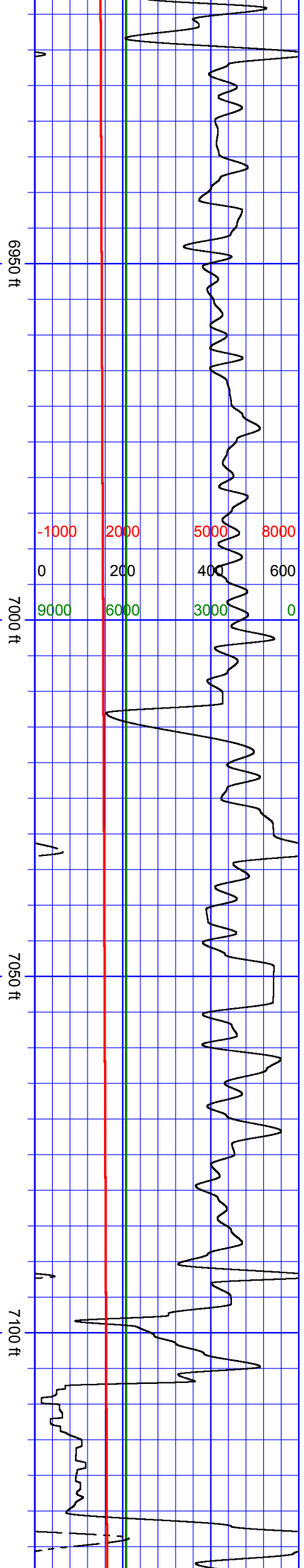


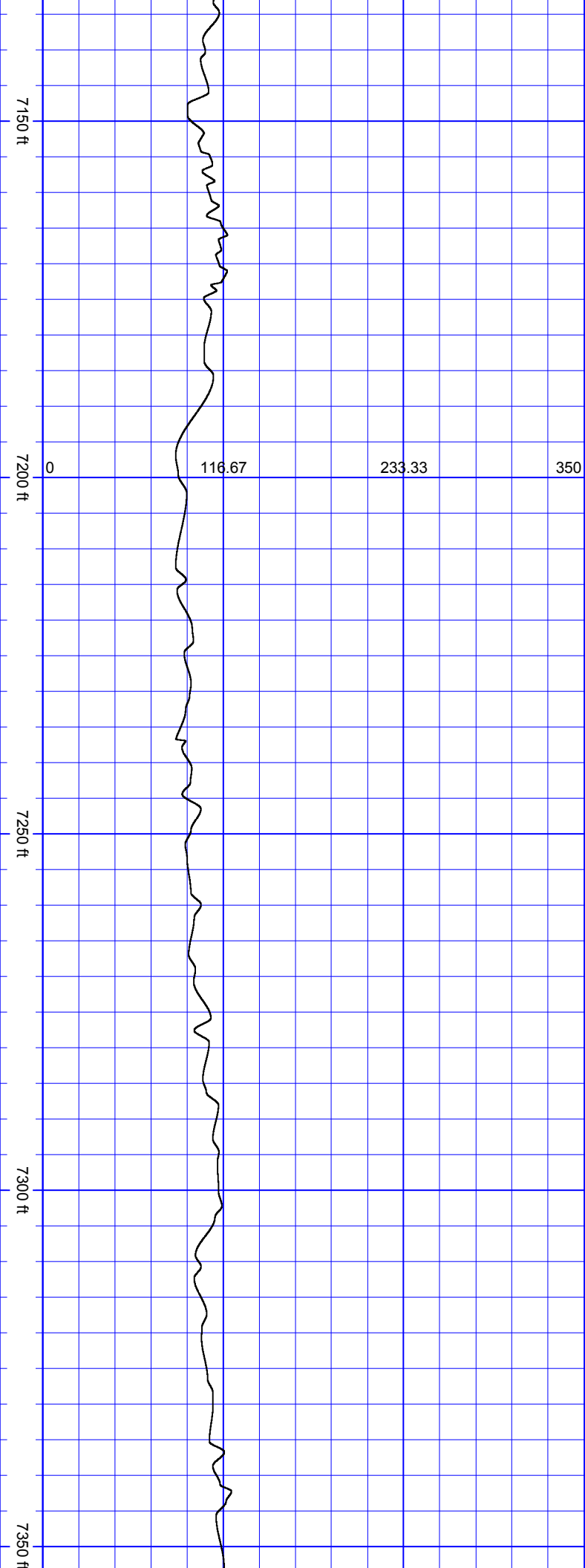


SurveyDepth:6766
TVD:5868.66 Inc:90.1
Azi:359.6
VertSec:1104.21

SurveyDepth:6861
TVD:5869.9 Inc:88.4
Azi:357.9
VertSec:1199.19



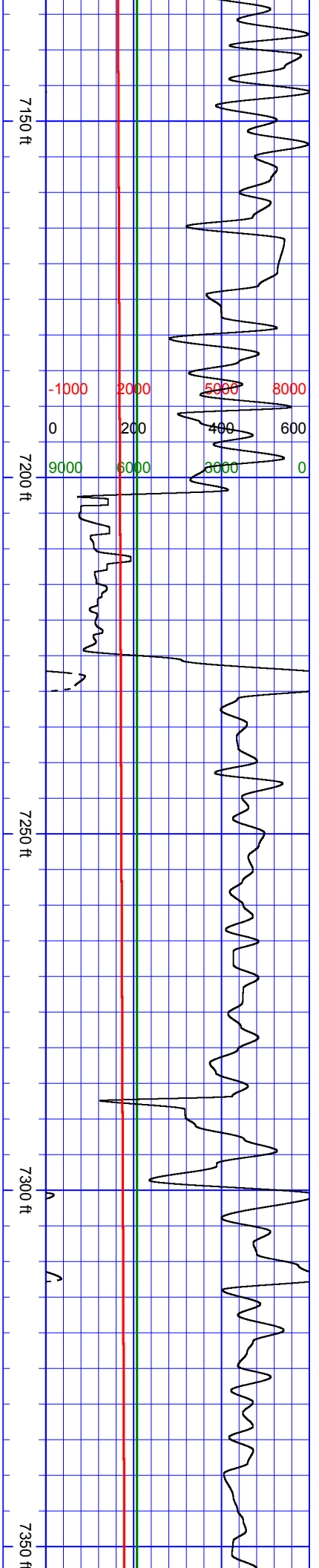


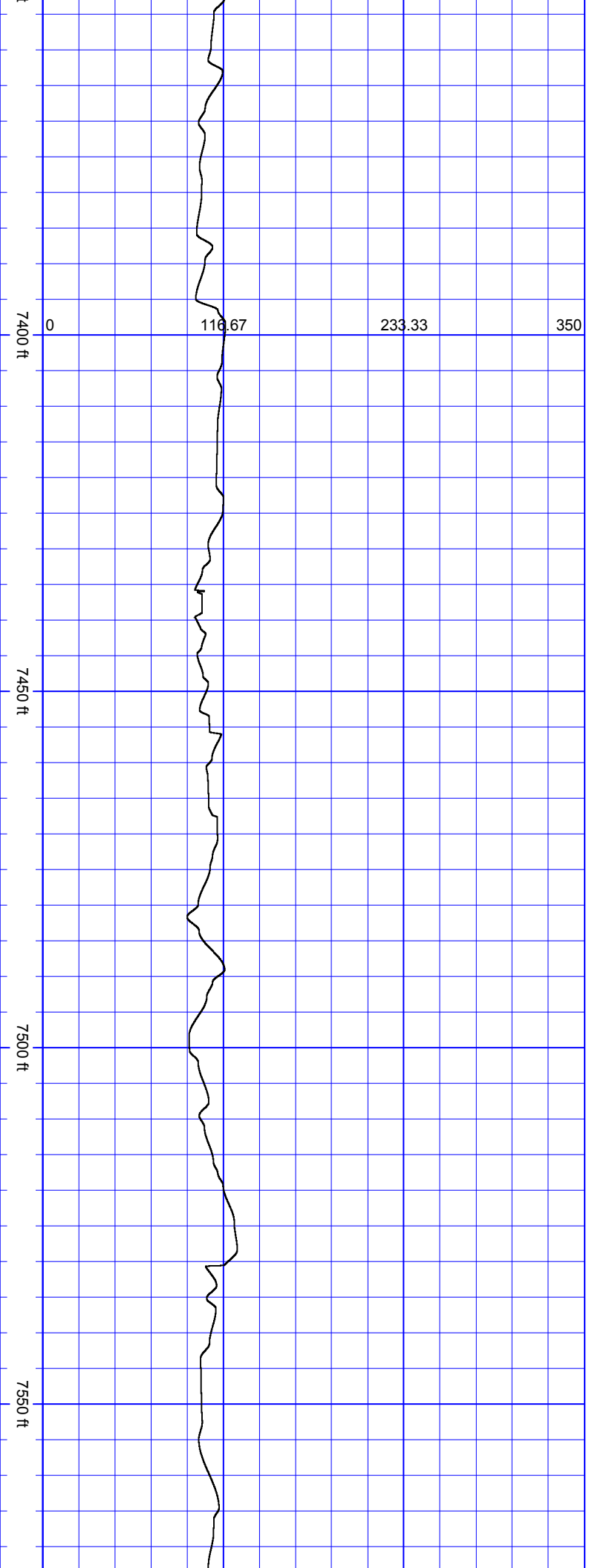


SurveyDepth:7146
TVD:5876.12 Inc:89.1
Azi:356.9
VertSec:1483.94

SurveyDepth:7241
TVD:5876.7 Inc:90.2
Azi:359.9
VertSec:1578.91

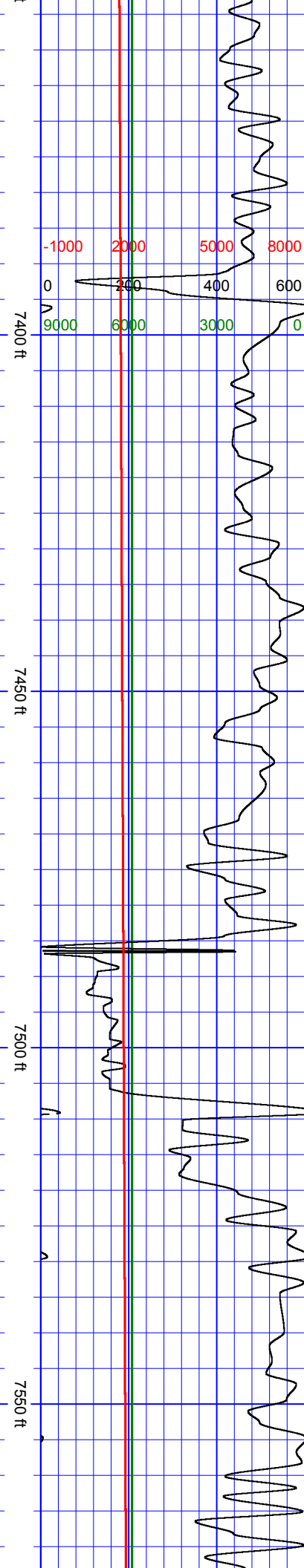
SurveyDepth:7336
TVD:5876.12 Inc:90.5
Azi:358.8
VertSec:1673.91

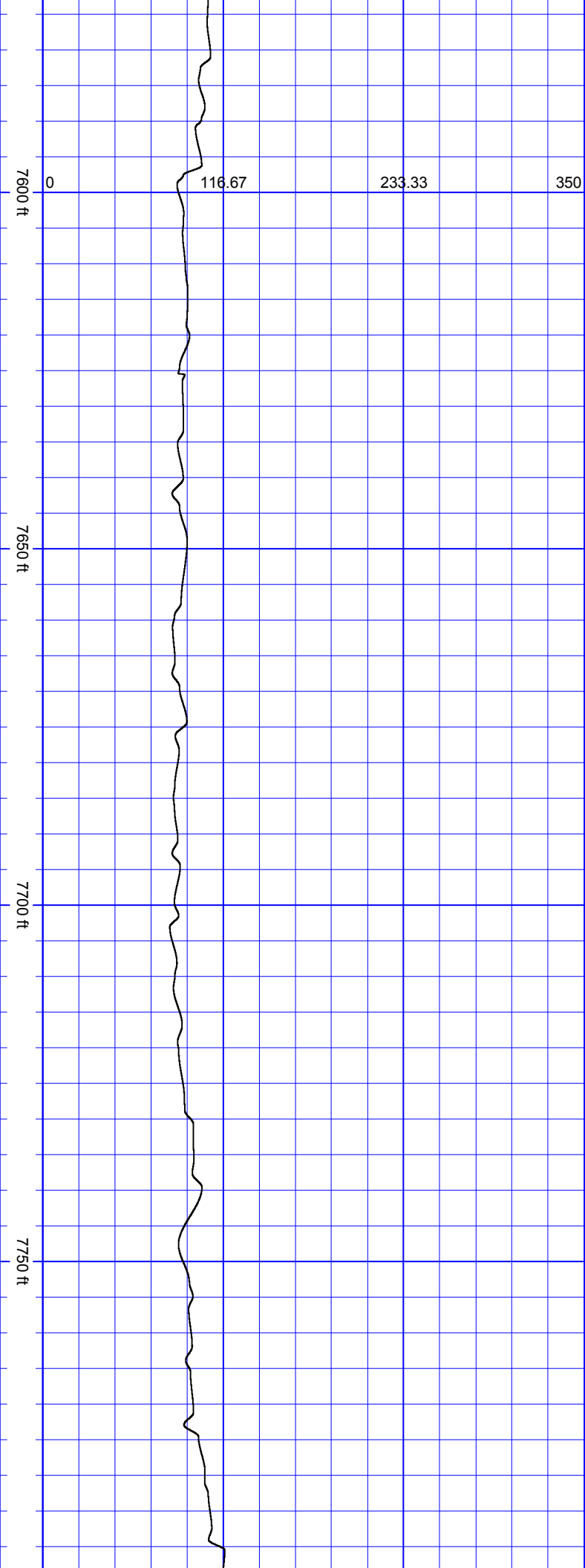




SurveyDepth:7430
TVD:5875.22 Inc:90.6
Azi:359 VertSec:1767.9

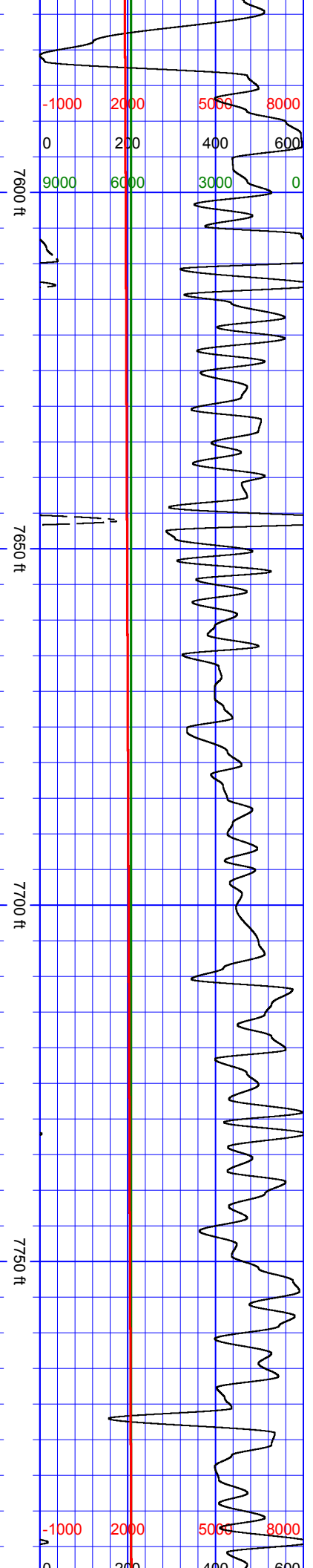
SurveyDepth:7525
TVD:5874.97 Inc:89.7
Azi:359.7
VertSec:1862.9

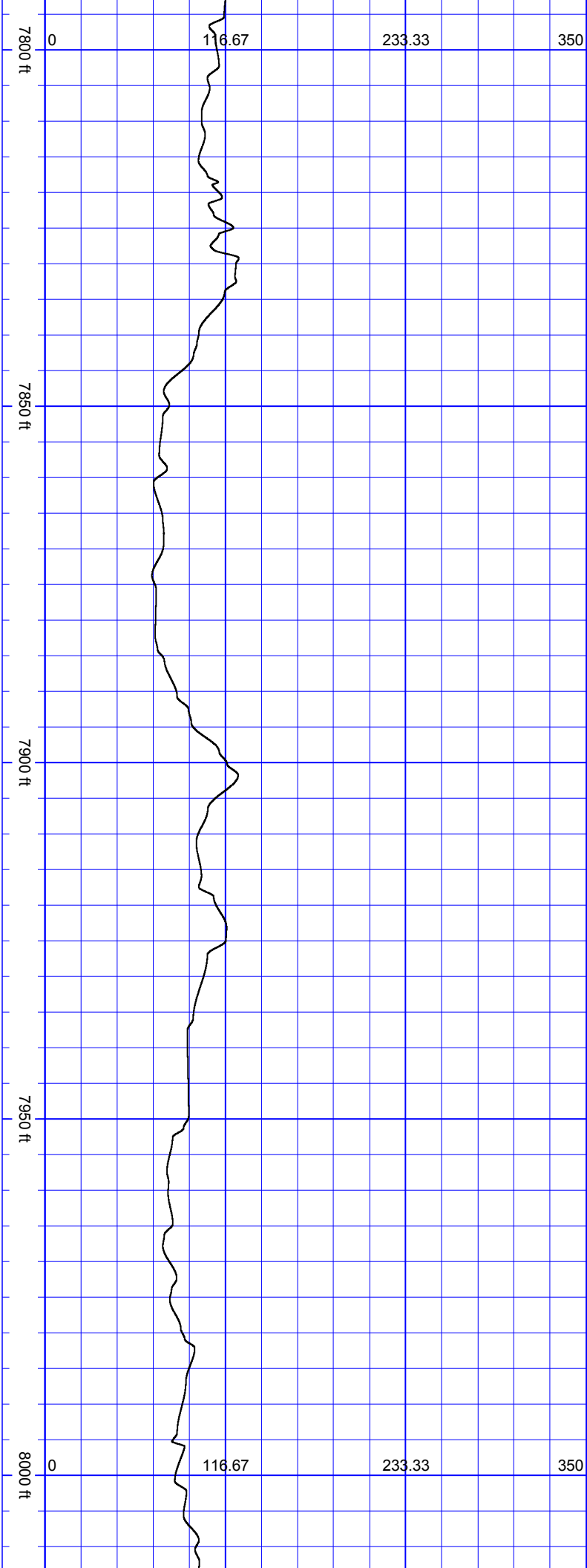




SurveyDepth:7620
TVD:5875.55 Inc:89.6
Azi:359.3
VertSec:1957.9

SurveyDepth:7715
TVD:5875.88 Inc:90
Azi:359.9
VertSec:2052.9

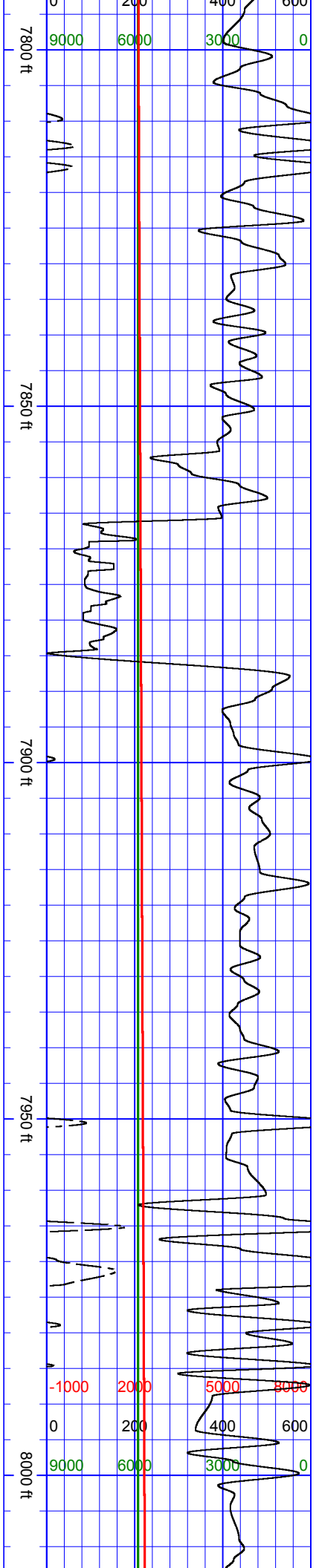


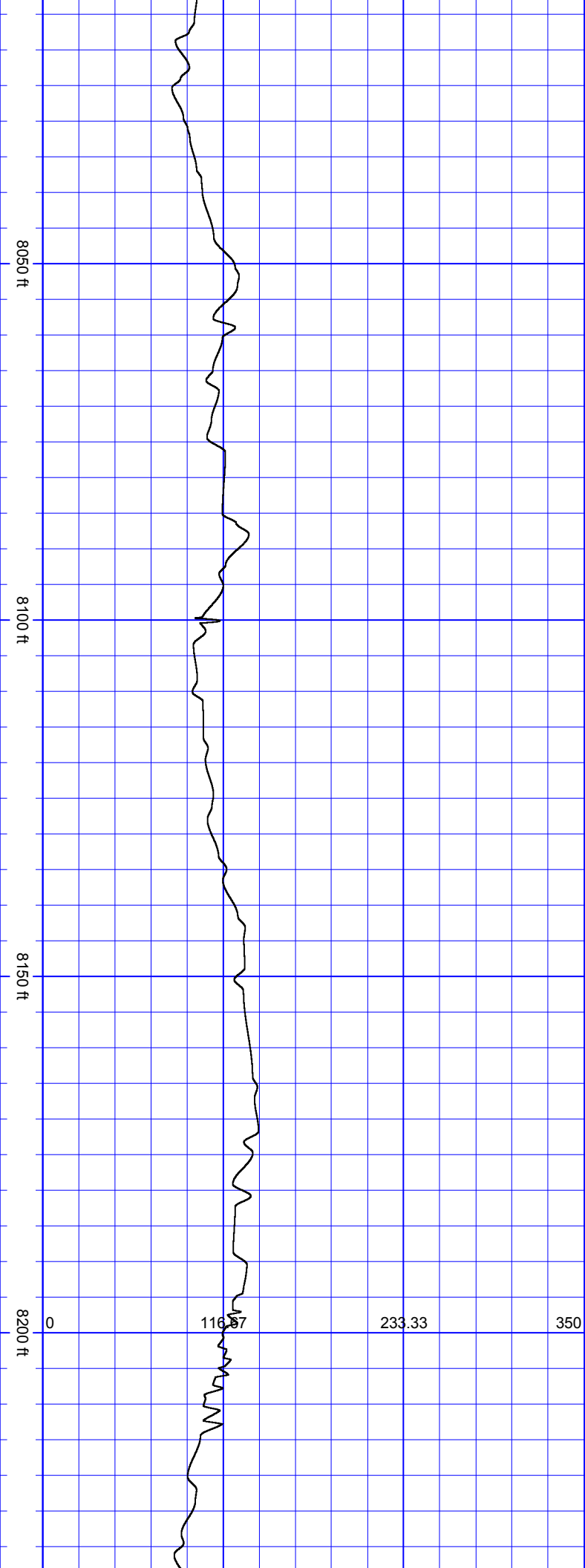


SurveyDepth:7810
TVD:5875.13 Inc:90.9
Azi:359.7
VertSec:2147.89

SurveyDepth:7905
TVD:5875.63 Inc:88.5
Azi:1 VertSec:2242.87

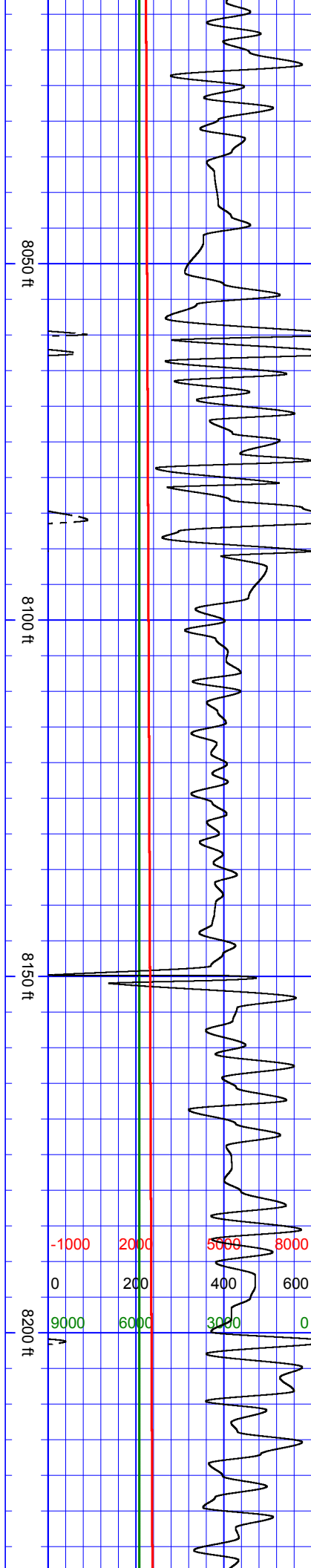
SurveyDepth:8000
TVD:5877.87 Inc:88.8
Azi:1.4 VertSec:2337.79

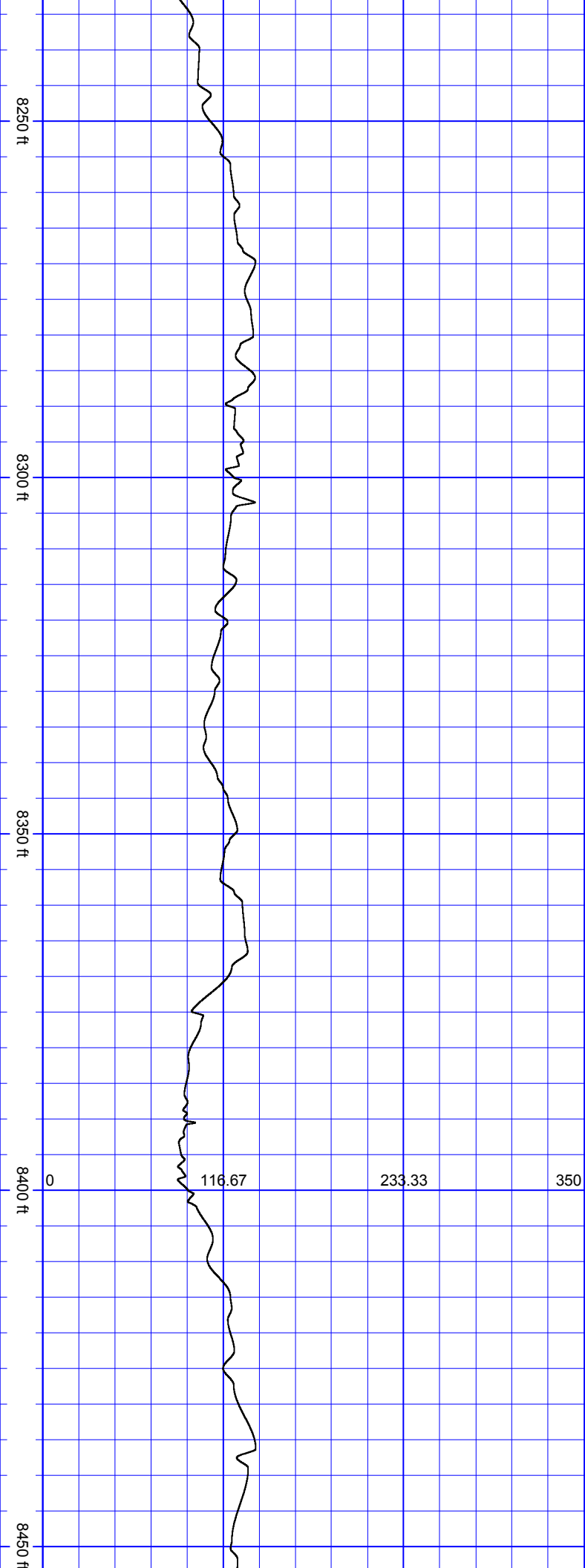




SurveyDepth:8094
TVD:5879.67 Inc:89
Azi:0.9 VertSec:2431.73

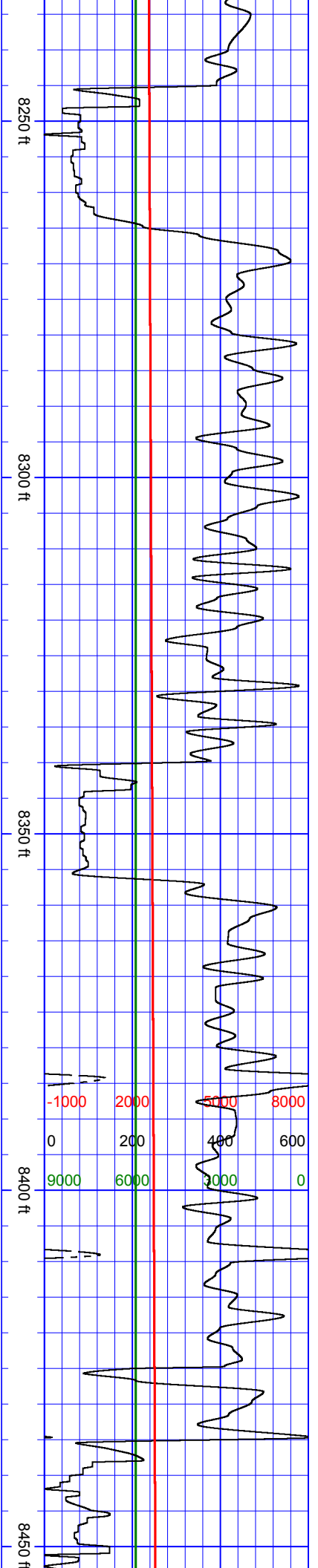
SurveyDepth:8189
TVD:5882 Inc:88.2
Azi:0.2 VertSec:2526.68

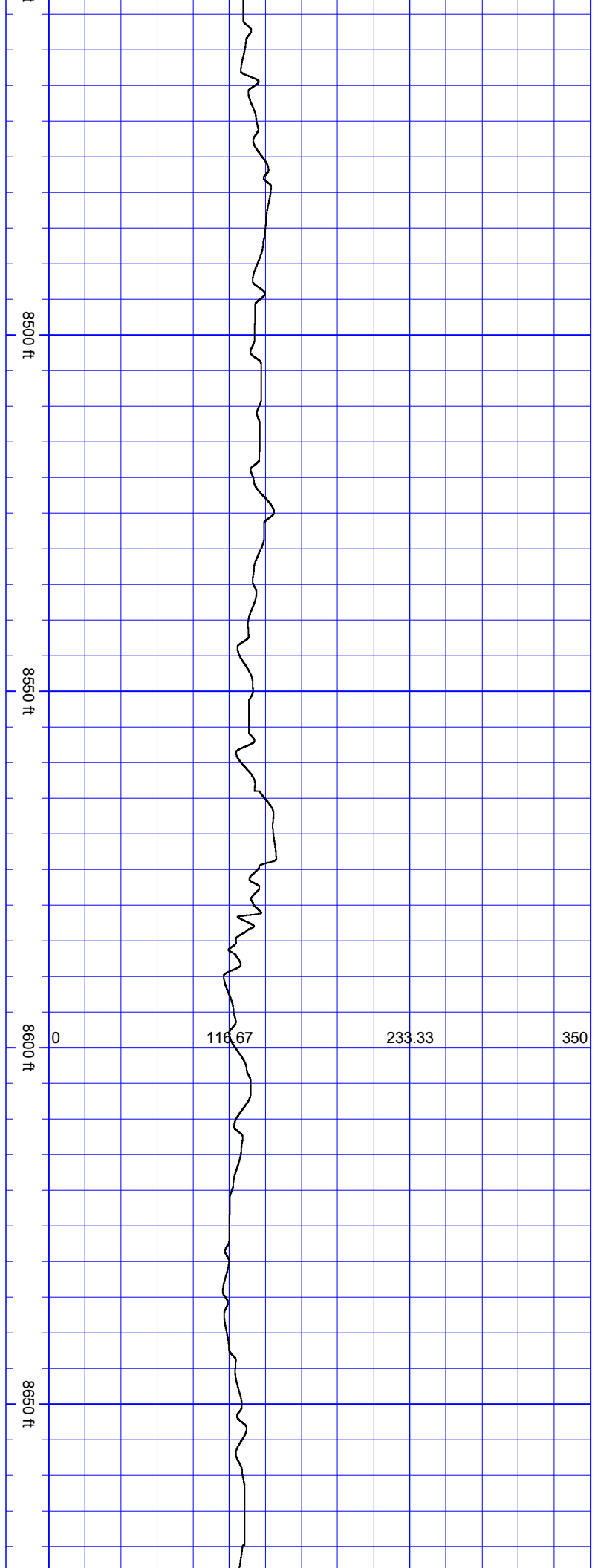




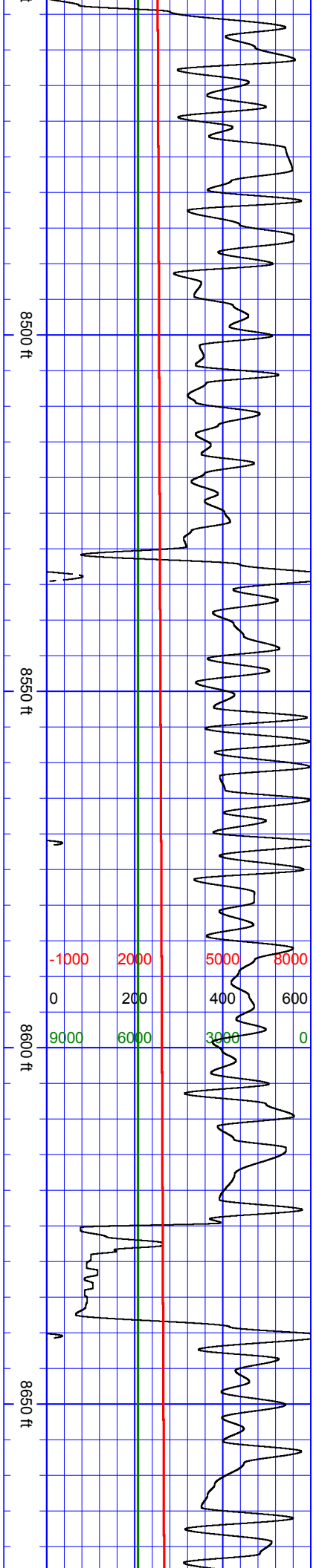
SurveyDepth:8284
TVD:5884.15 Inc:89.2
Azi:1.7 VertSec:2621.62

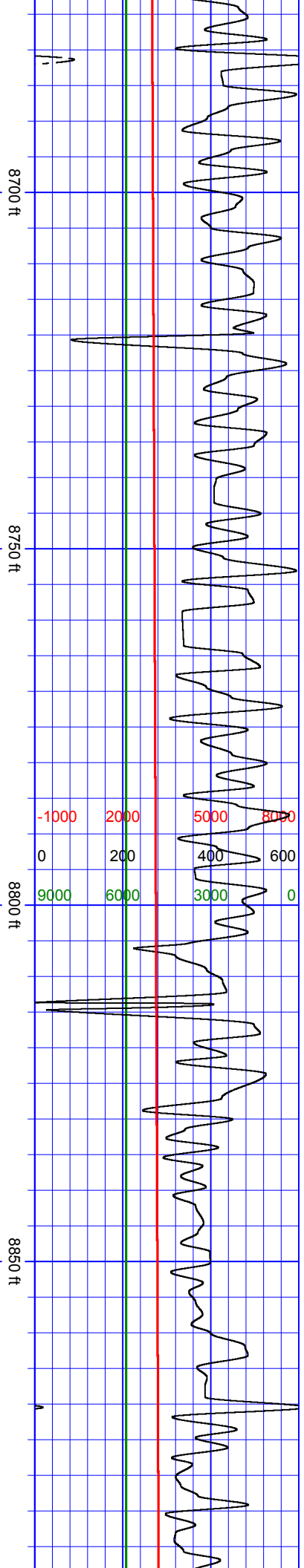
SurveyDepth:8379
TVD:5883.24 Inc:91.9
Azi:3.5 VertSec:2716.45



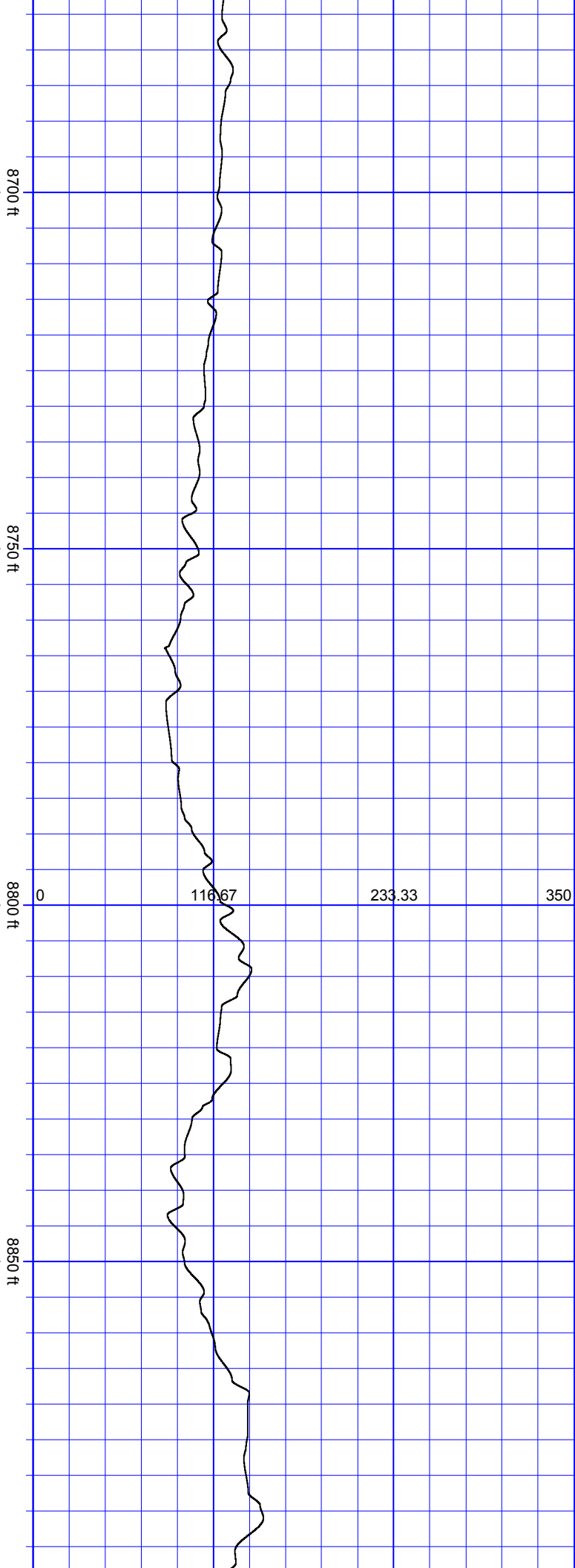


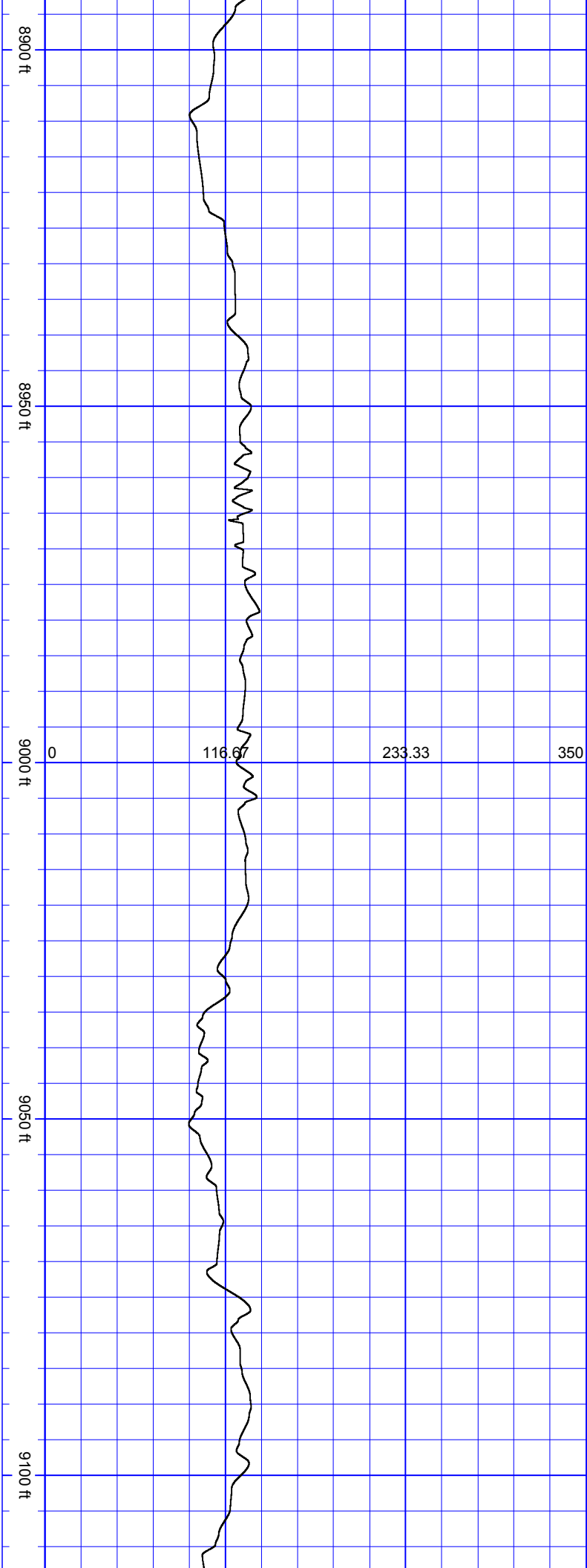
SurveyDepth:8569
TVD:5882.08 Inc:88.8
Azi:2.1 VertSec:2906.08





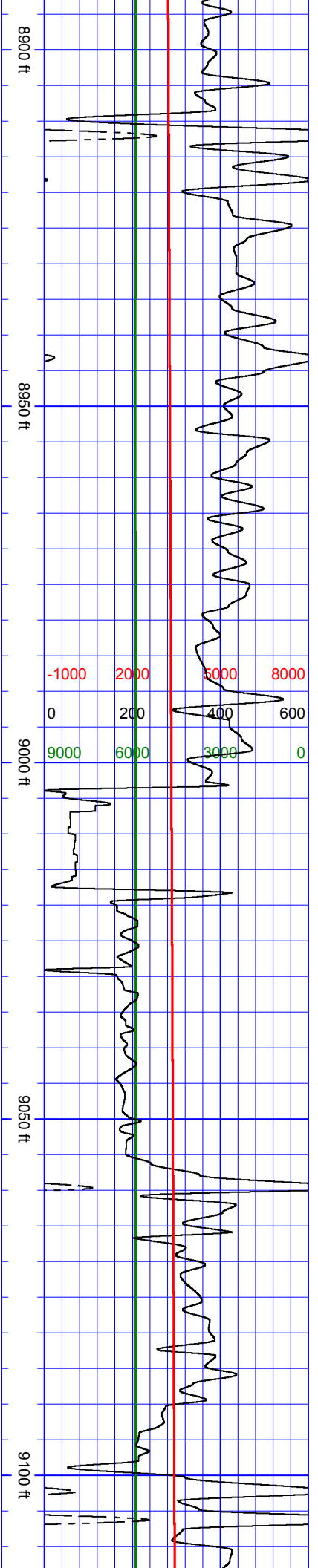
SurveyDepth:8853
TVD:5886.79 Inc:89.3
Azi:1.8 VertSec:3189.76

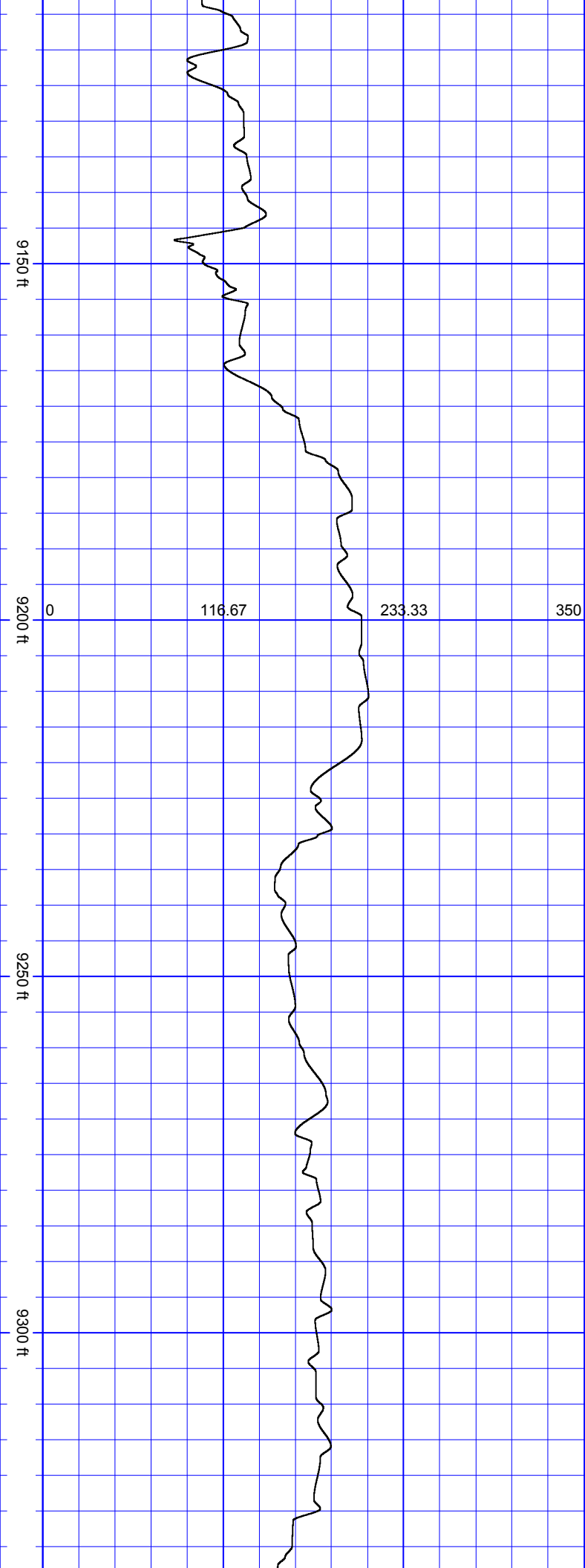




SurveyDepth:8948
TVD:5888.28 Inc:88.9
Azi:1.5 VertSec:3284.67

SurveyDepth:9043
TVD:5887.28 Inc:92.3
Azi:2.8 VertSec:3379.54

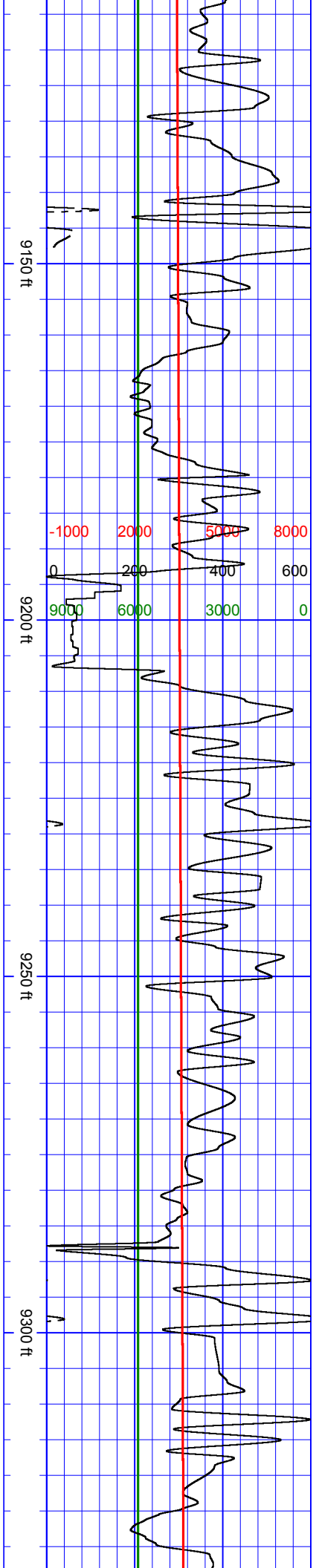


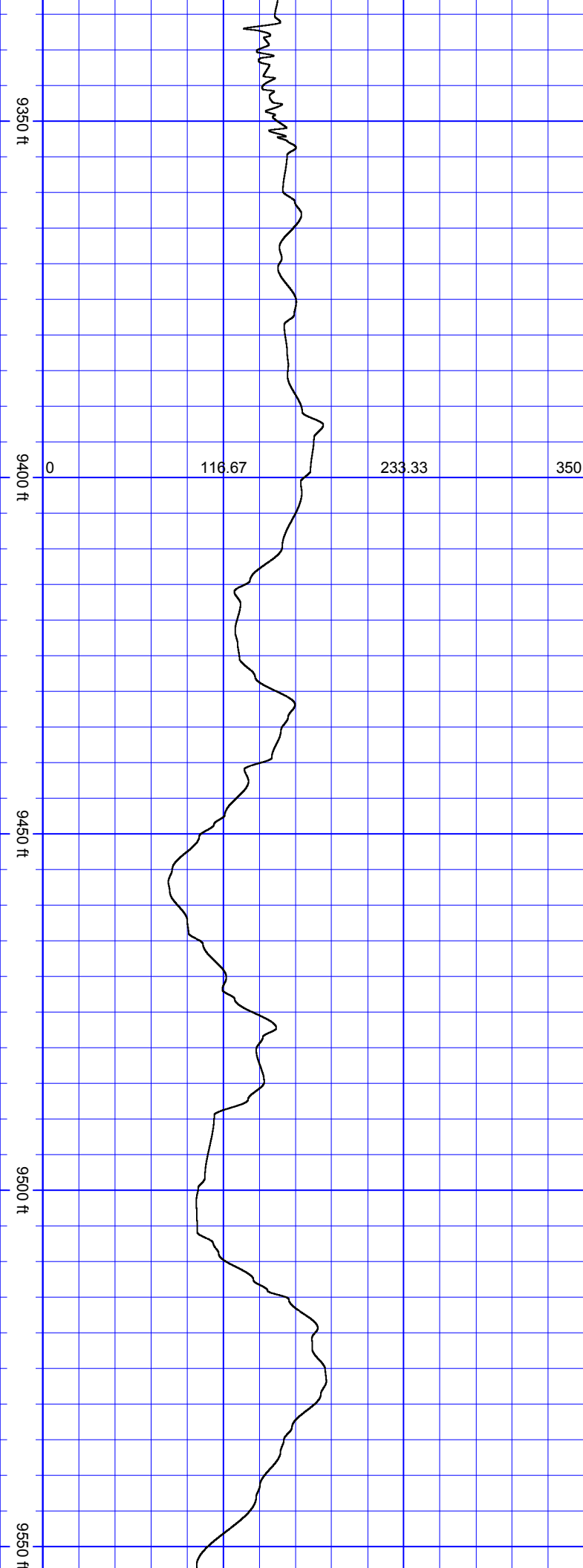


SurveyDepth:9137
TVD:5883.84 Inc:91.9
Azi:2.3 VertSec:3473.34

SurveyDepth:9232
TVD:5881.35 Inc:91.1
Azi:0.5 VertSec:3568.24

SurveyDepth:9327
TVD:5879.61 Inc:91.1
Azi:0.5 VertSec:3663.24

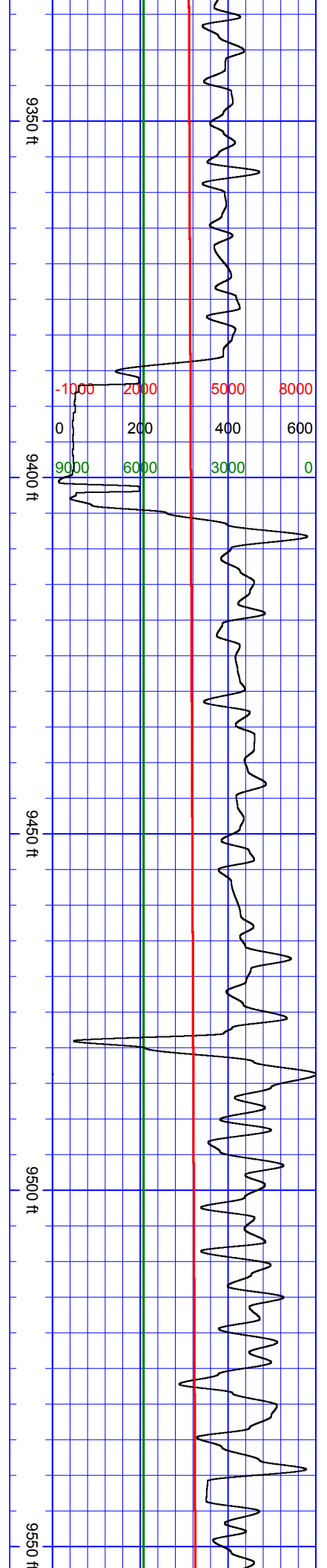


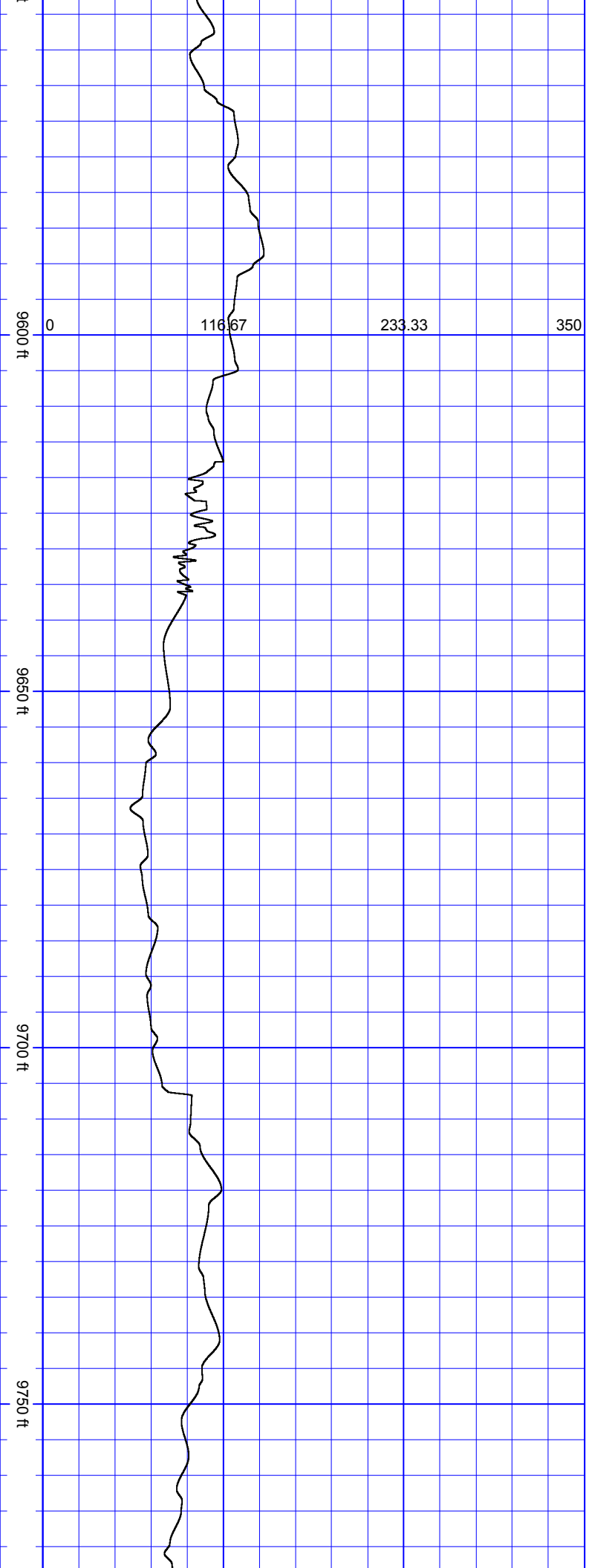


Azi:0.2 VertSec:3663.21

SurveyDepth:9422
TVD:5879.69 Inc:88.9
Azi:359.9
VertSec:3758.2

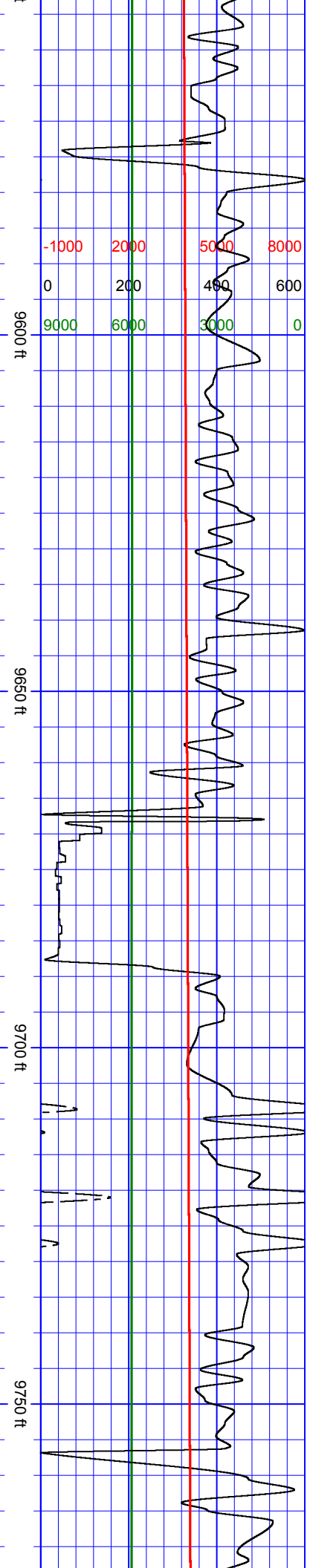
SurveyDepth:9517
TVD:5882.43 Inc:87.8
Azi:359.2
VertSec:3853.16

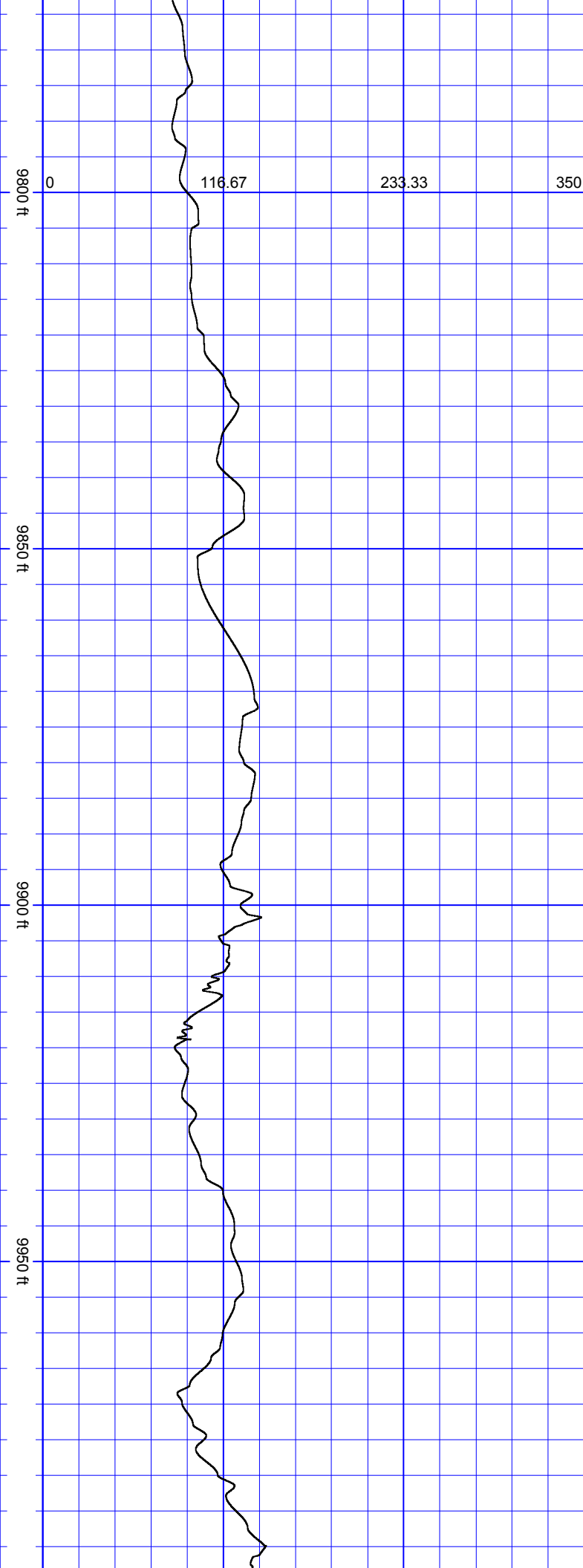




SurveyDepth:9612
TVD:5886.41 Inc:87.4
Azi:358.4
VertSec:3948.07

SurveyDepth:9705
TVD:5889.09 Inc:89.3
Azi:358.7
VertSec:4041.01

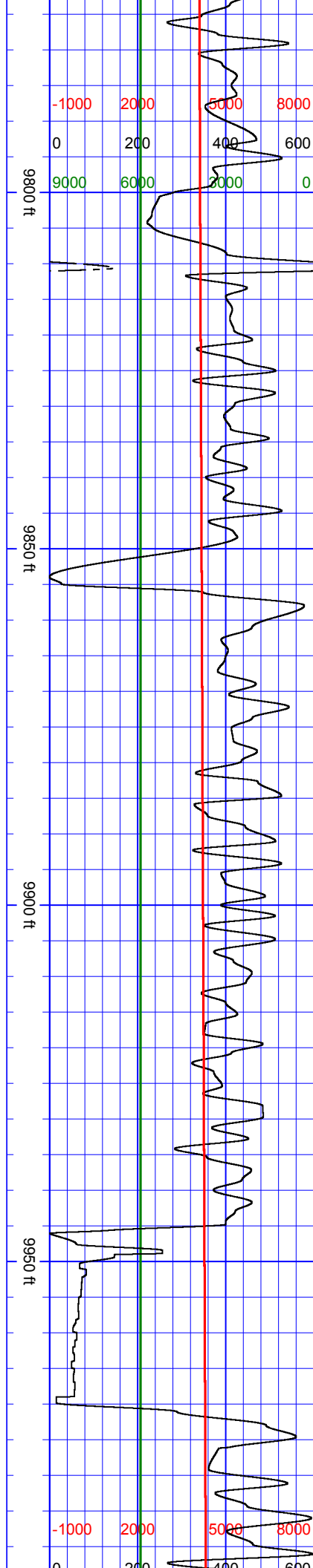


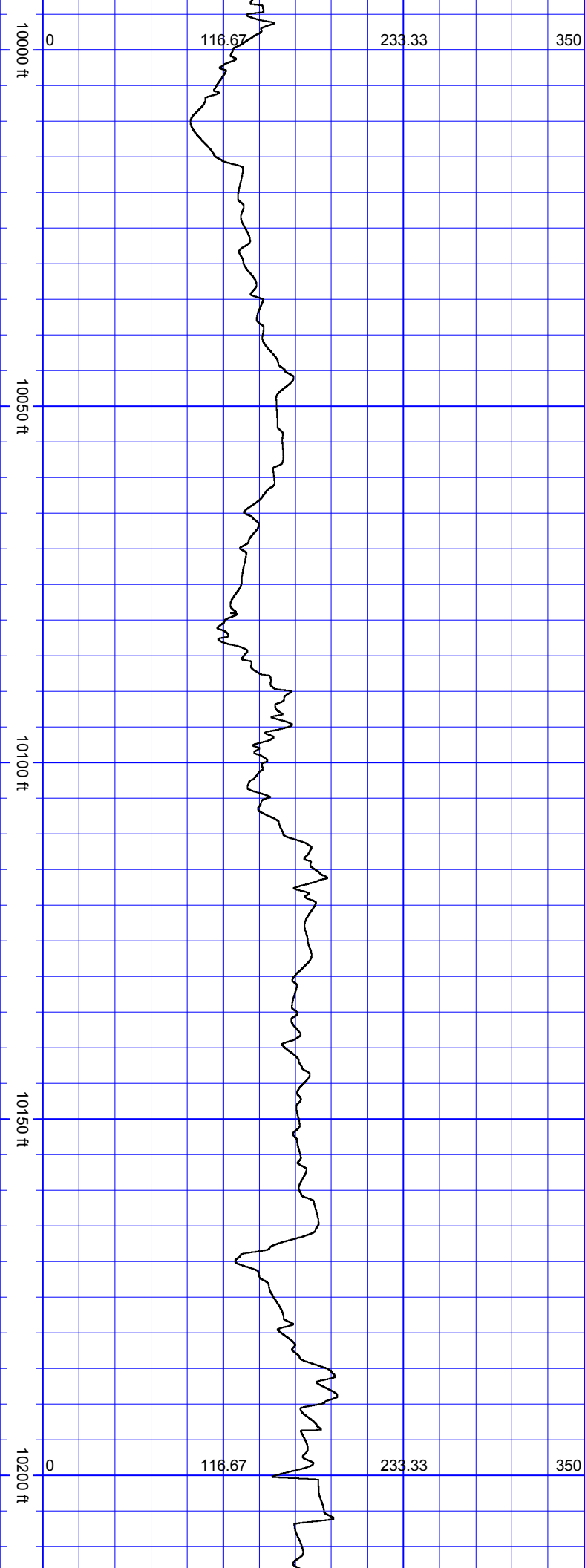


SurveyDepth:9799
TVD:5890.32 Inc:89.2
Azi:358.3 VertSec:4135

SurveyDepth:9891
TVD:5892.08 Inc:88.6
Azi:357.2
VertSec:4226.94

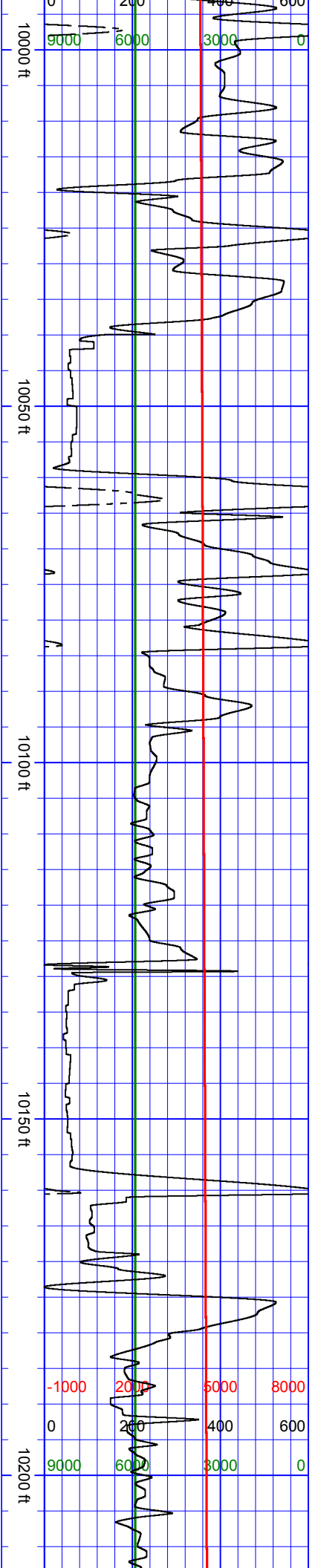
SurveyDepth:9982
TVD:5894.7 Inc:88.1
Azi:0.5 VertSec:4317.88

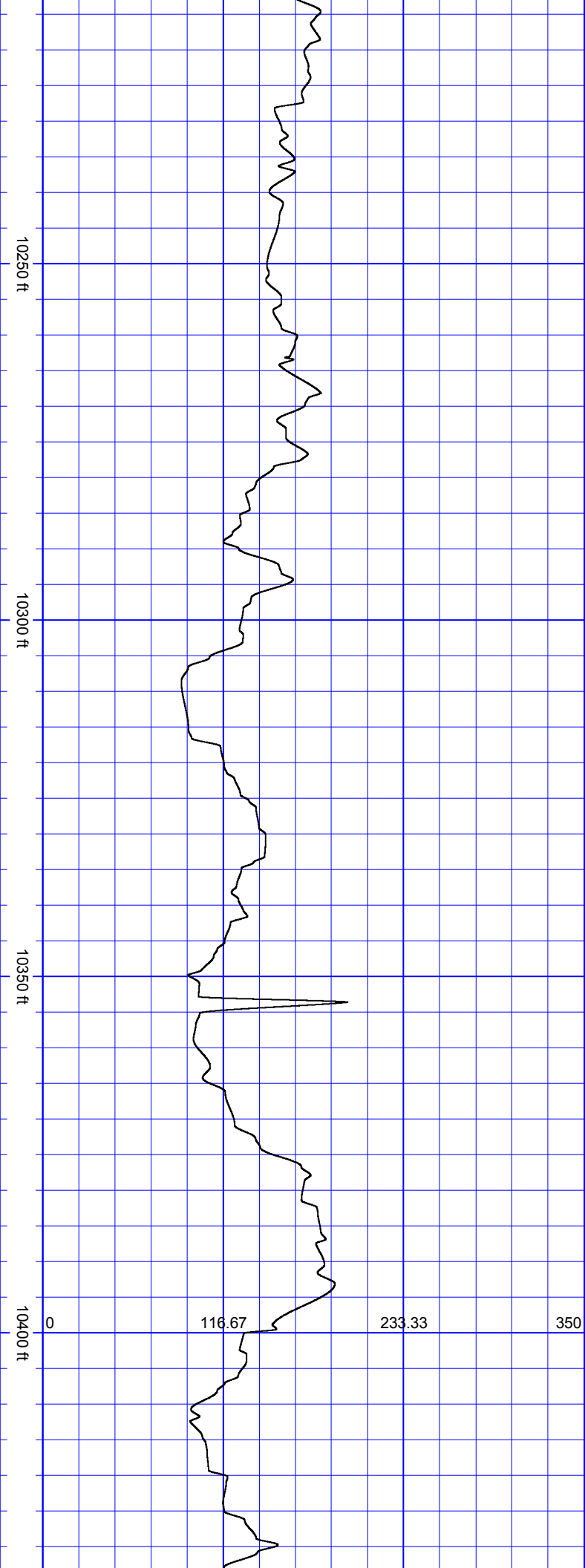




SurveyDepth:10073
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Azi:2.3 VertSec:4408.79

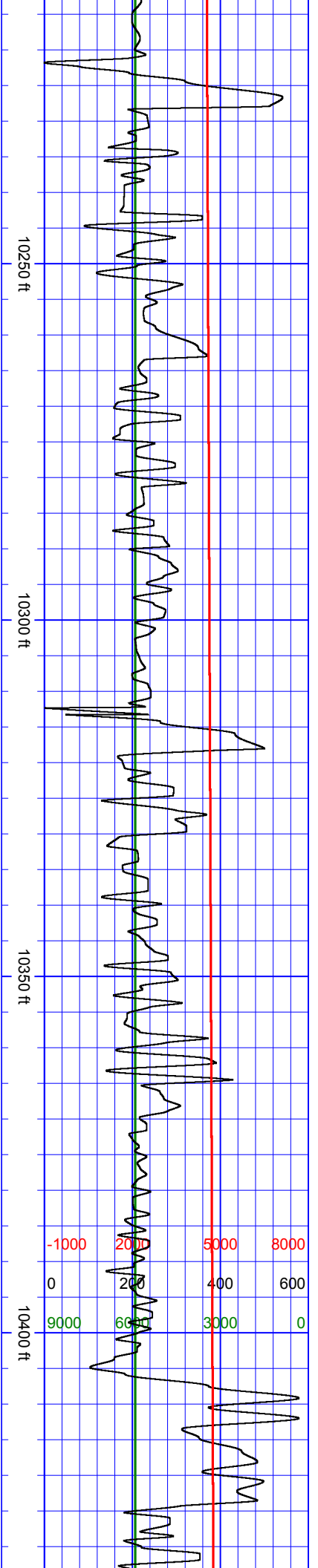
SurveyDepth:10164
TVD:5897.09 Inc:91.1
Azi:1.4 VertSec:4499.7

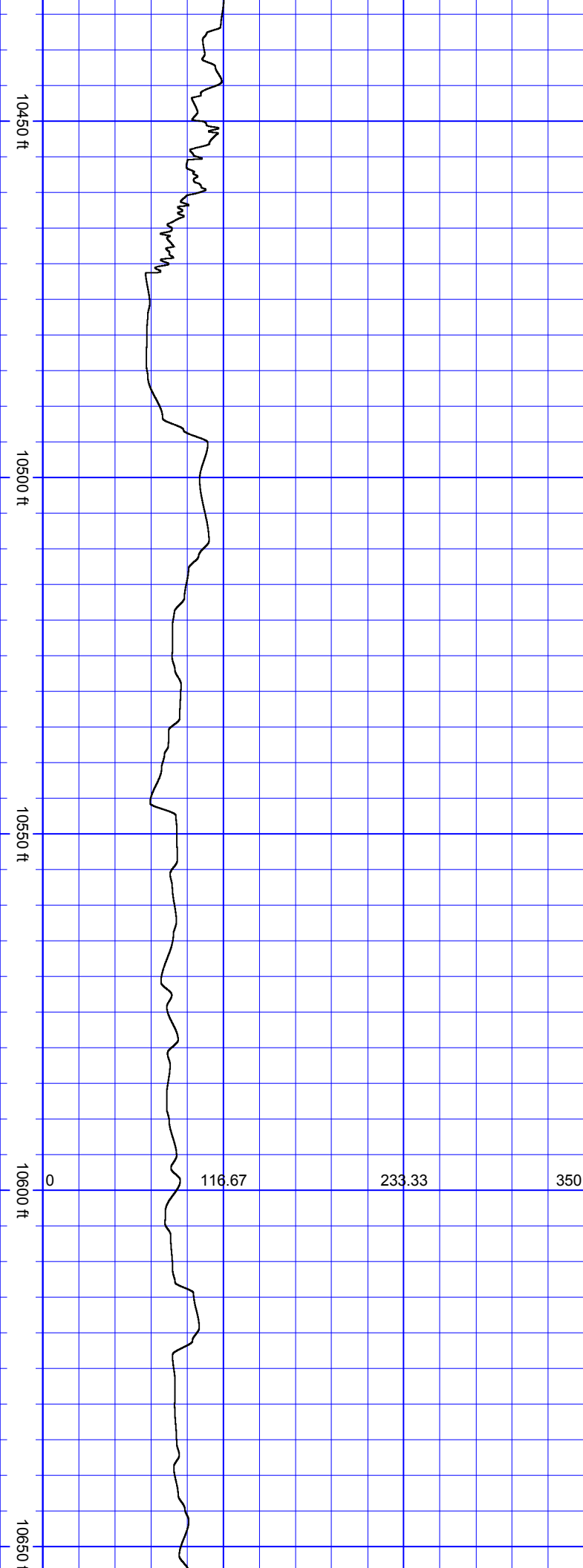




SurveyDepth:10257
TVD:5895.63 Inc:90.7
Azi:0.8 VertSec:4592.65

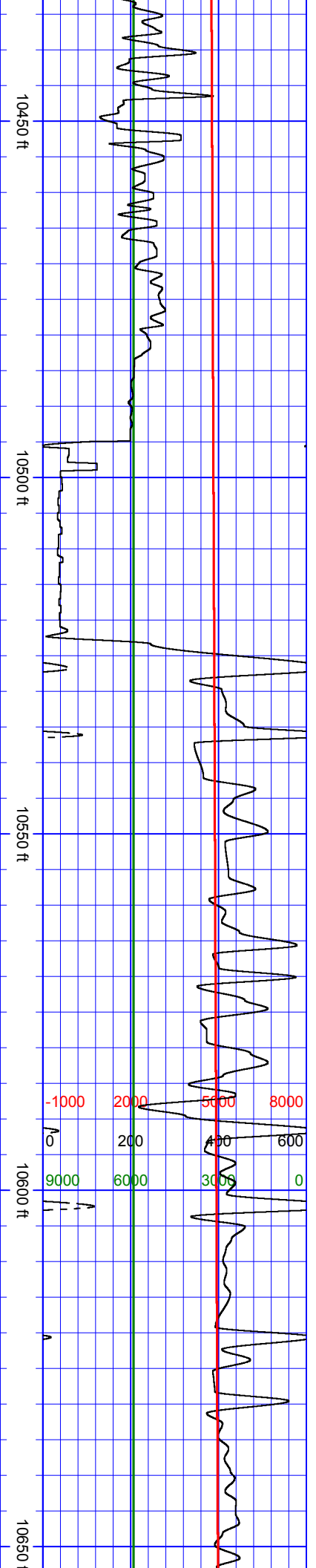
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TVD:5895.06 Inc:90
Azi:0.6 VertSec:4684.62

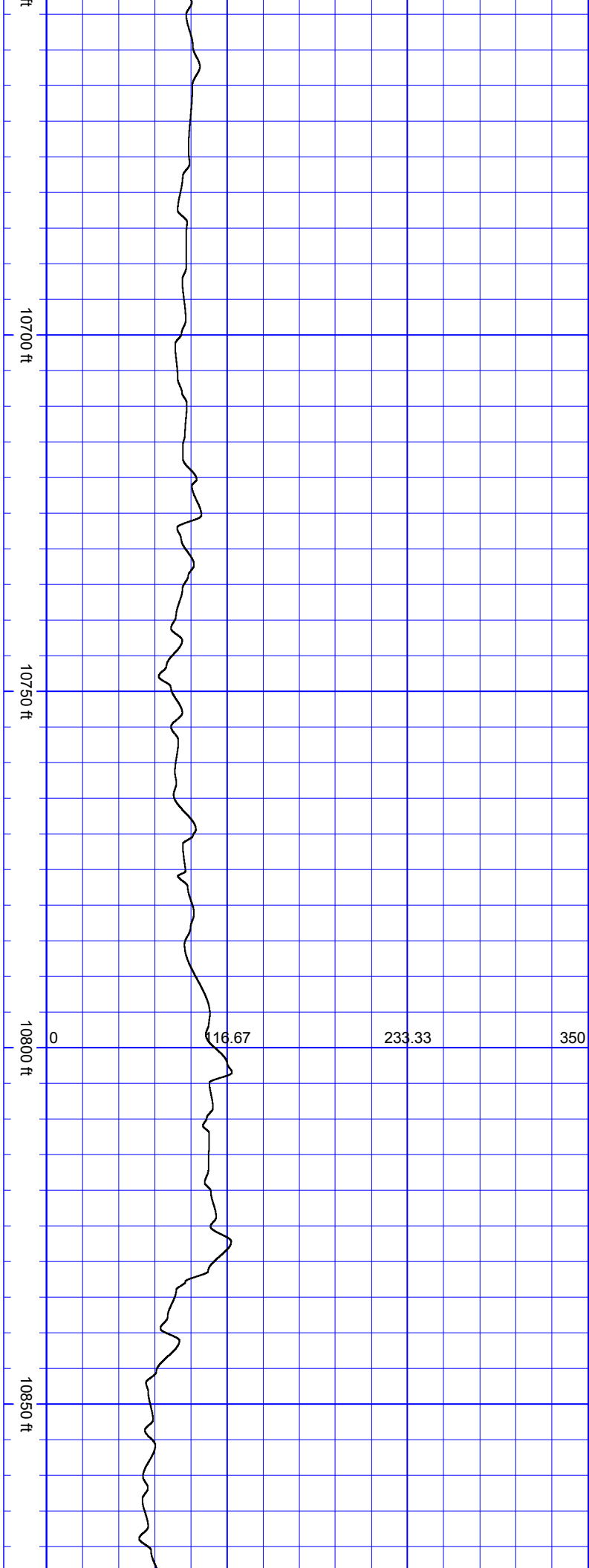




SurveyDepth:10440
TVD:5896.1 Inc:88.7
Azi:359.8
VertSec:4775.6

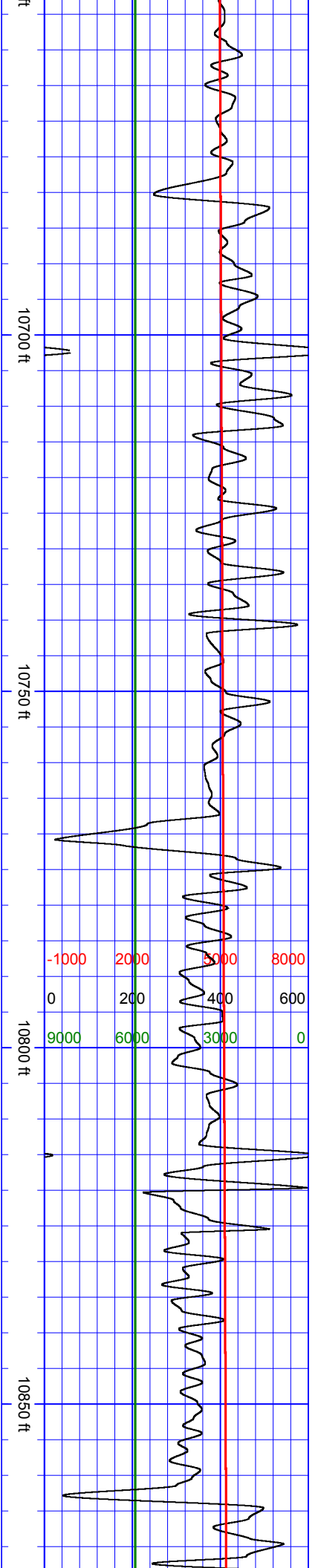
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TVD:5897.37 Inc:90.5
Azi:359.5
VertSec:4958.59

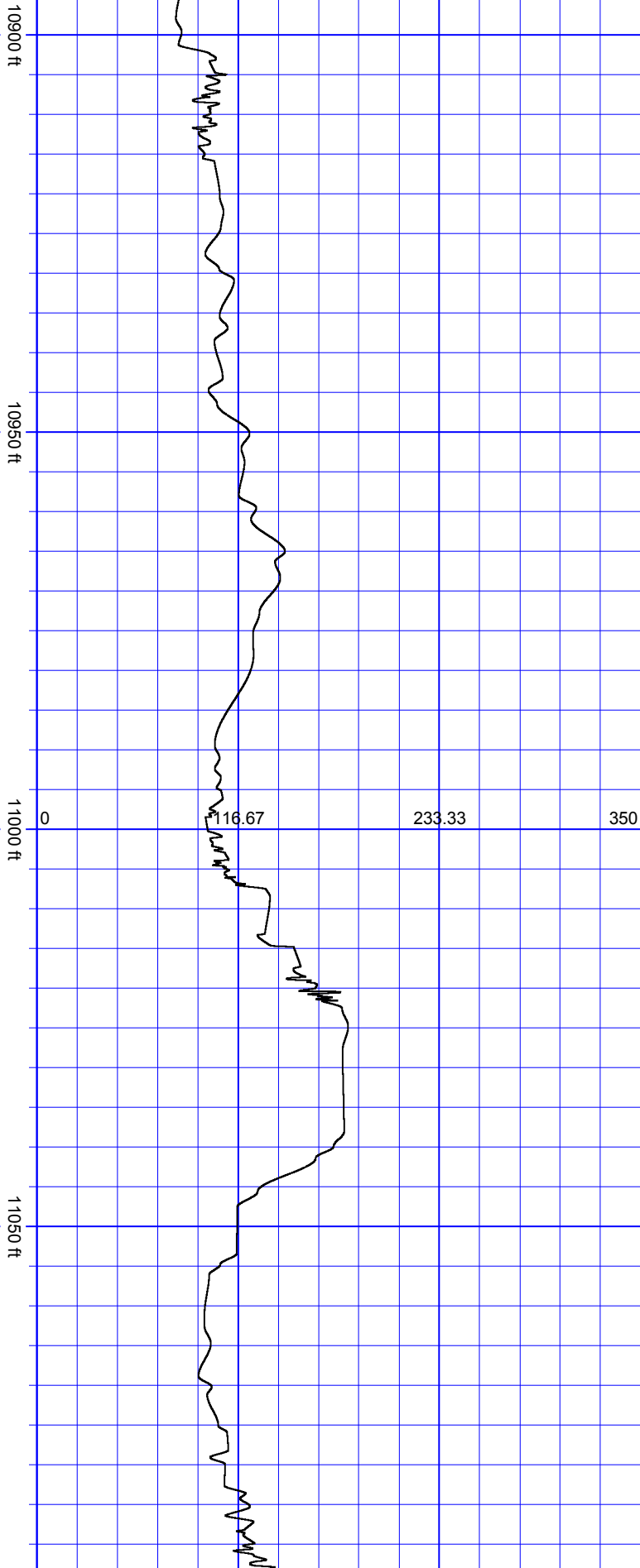




SurveyDepth:10714
TVD:5896.02 Inc:91.2
Azi:359.3
VertSec:5049.58

SurveyDepth:10806
TVD:5893.7 Inc:91.7
Azi:358.9
VertSec:5141.55

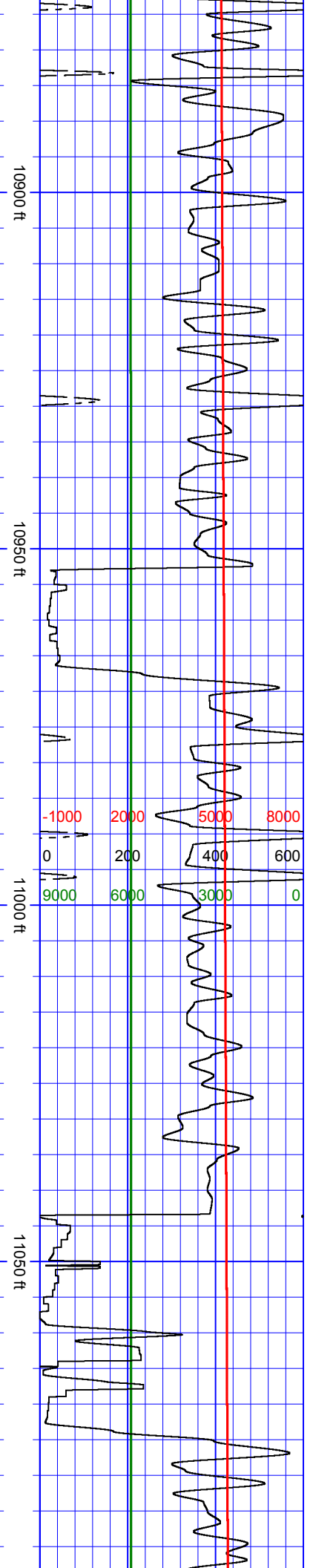


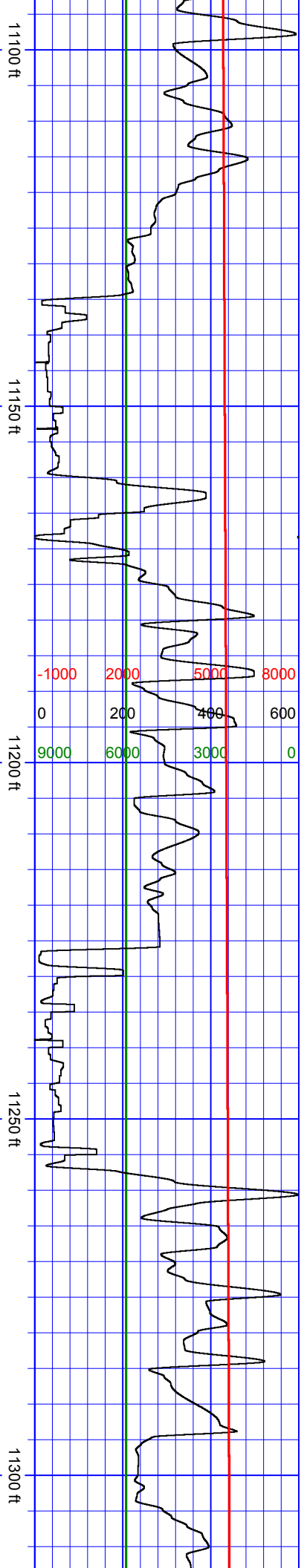


SurveyDepth:10897
TVD:5890.52 Inc:92.3
Azi:358.3
VertSec:5232.48

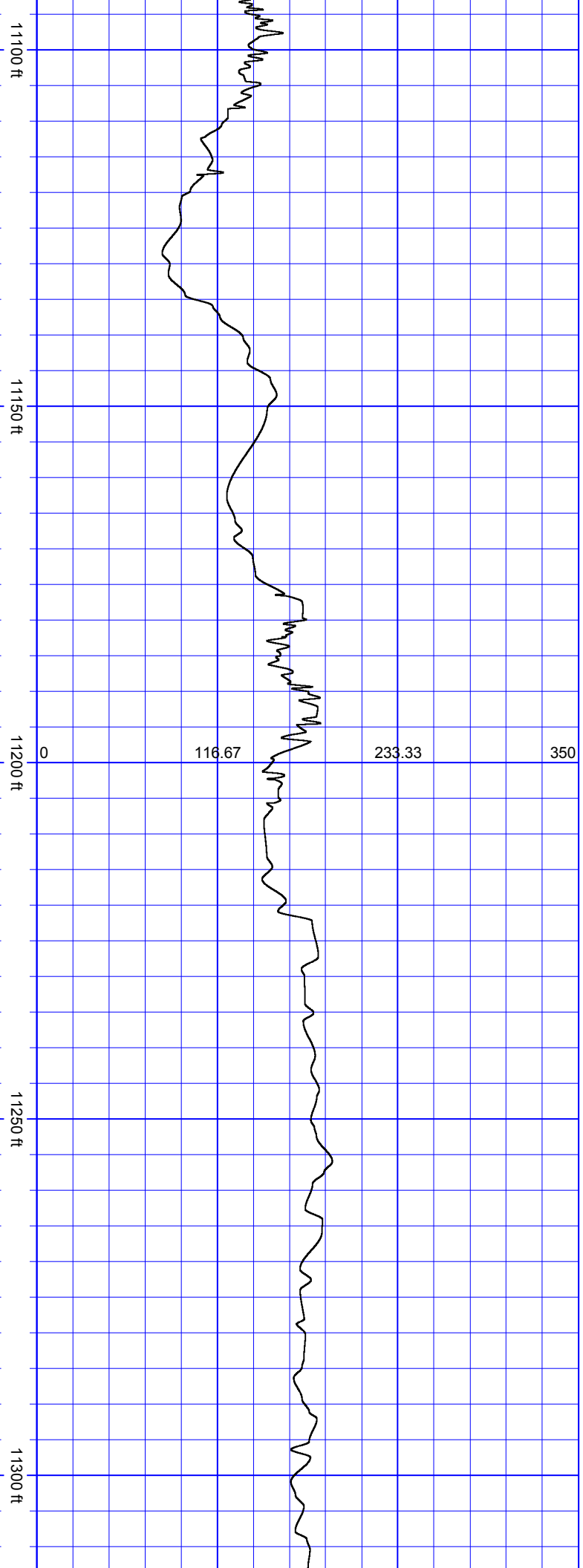
SurveyDepth:10988
TVD:5886.79 Inc:92.4
Azi:359.3
VertSec:5323.4

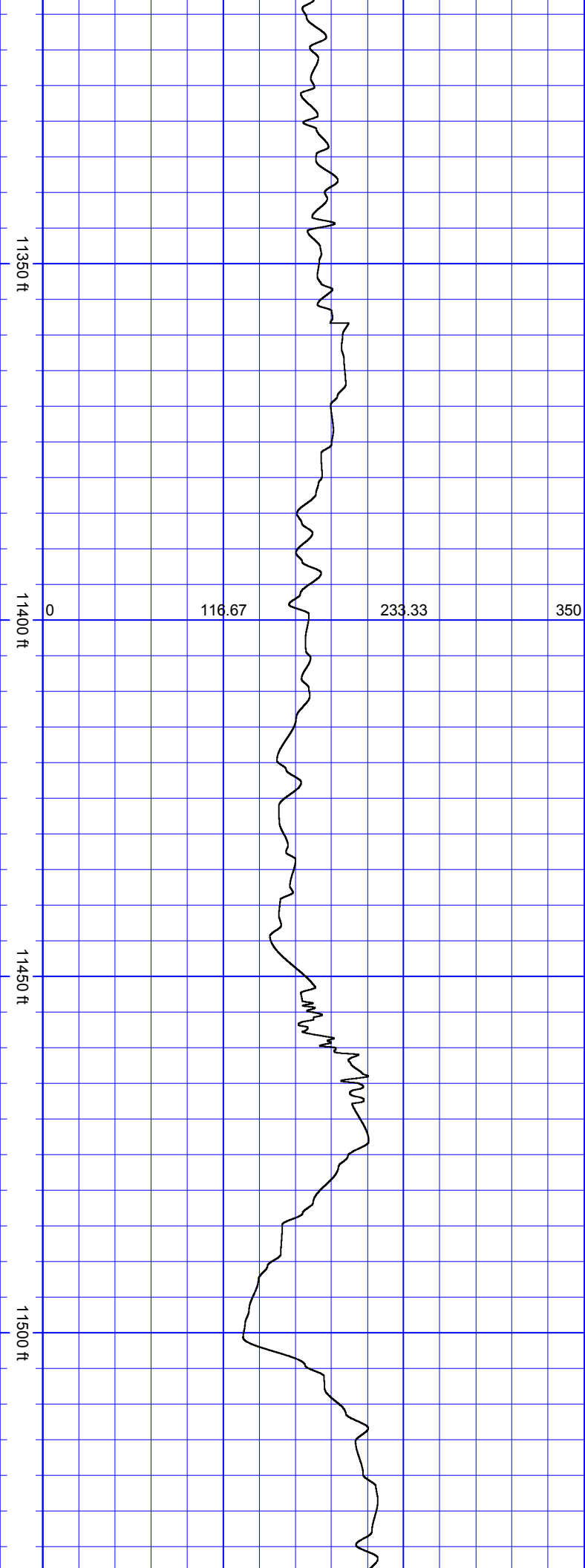
SurveyDepth:11079
TVD:5882.66 Inc:92.8
Azi:357.9
VertSec:5414.3





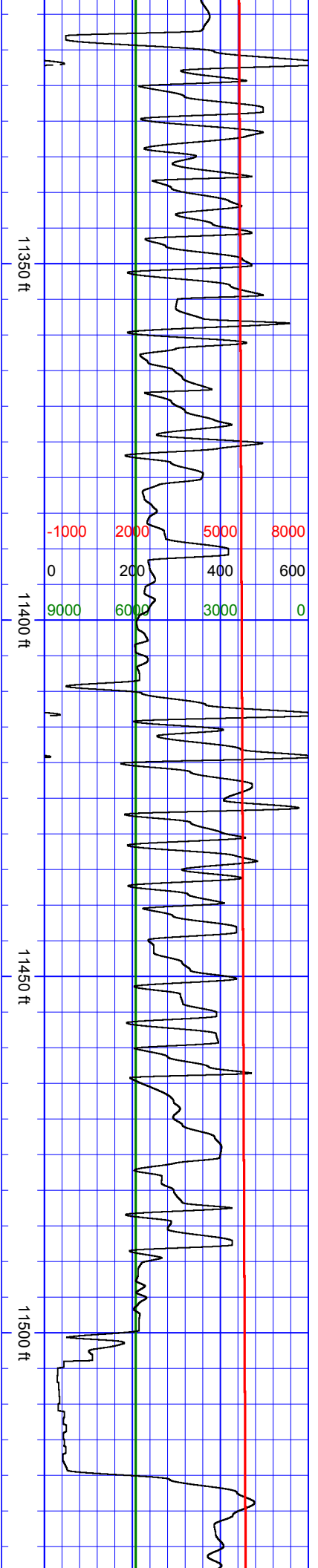
SurveyDepth:11262
TVD:5879.31 Inc:89.3
Azi:2.3 VertSec:5597.18

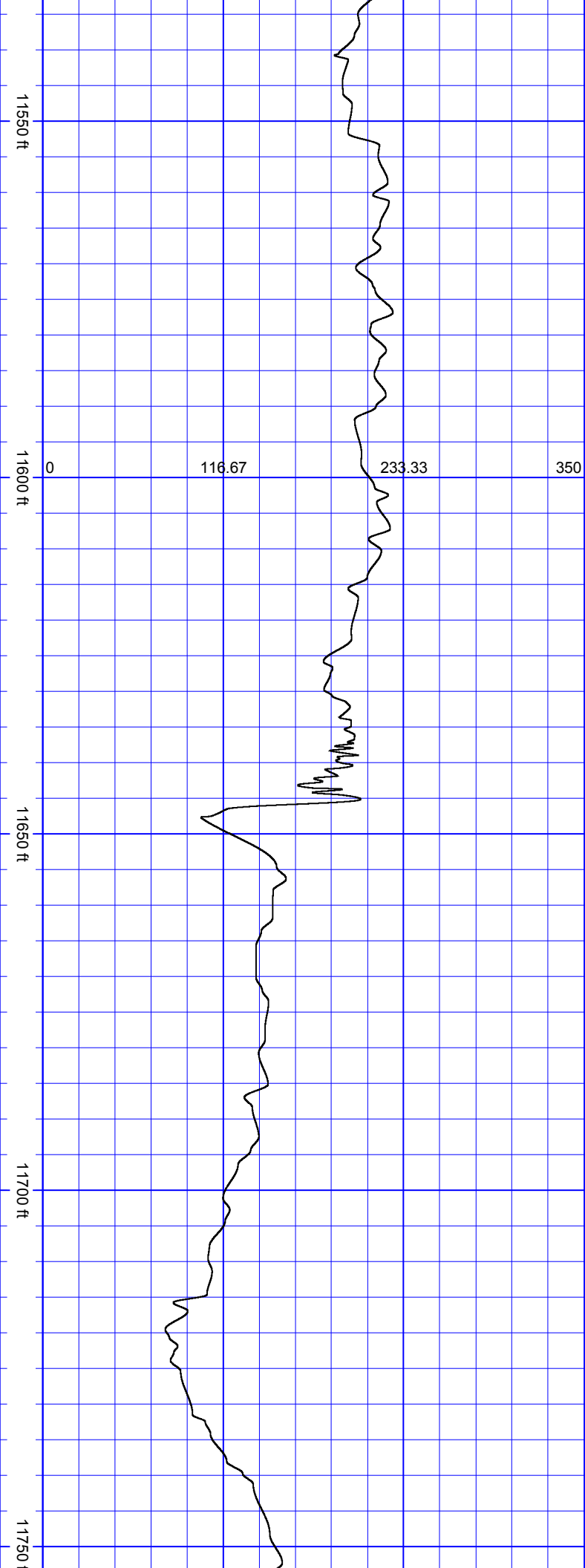




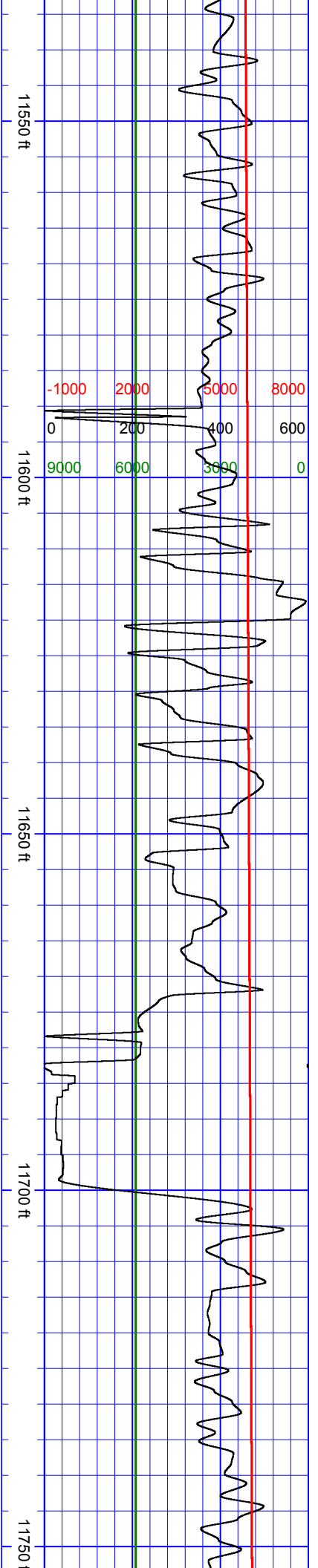
SurveyDepth:11353
TVD:5880.02 Inc:89.8
Azi:2.4 VertSec:5688.05

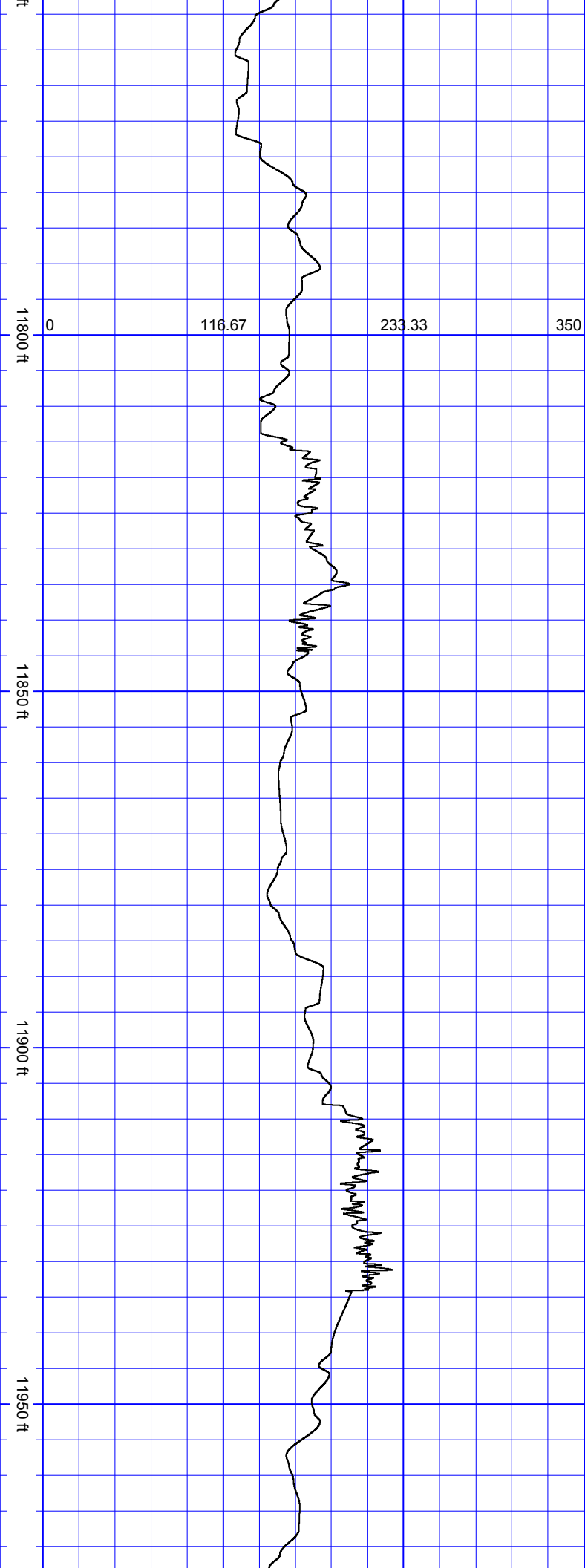
SurveyDepth:11444
TVD:5879.78 Inc:90.5
Azi:1.5 VertSec:5778.96





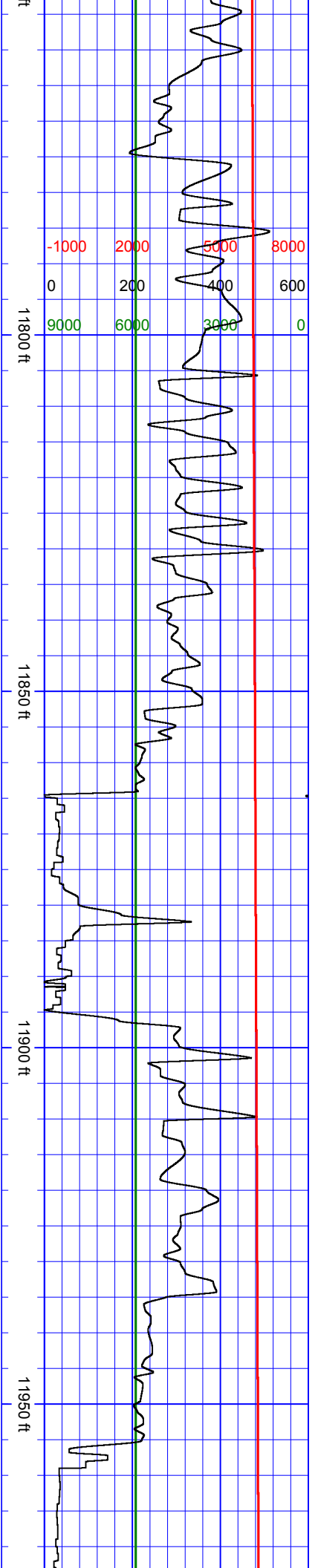
SurveyDepth:11718
TVD:5877.39 Inc:90.5
Azi:0.2 VertSec:6052.86

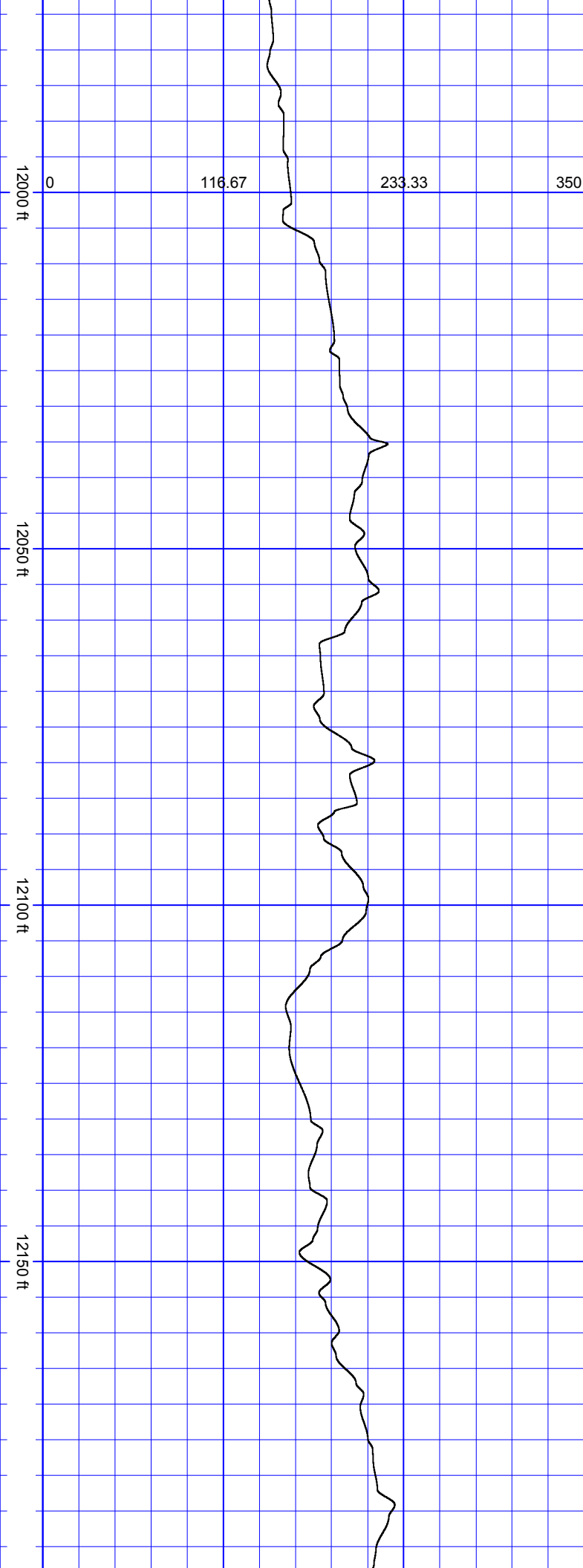




SurveyDepth:11809
TVD:5875.72 Inc:91.6
Azi:0.1 VertSec:6143.83

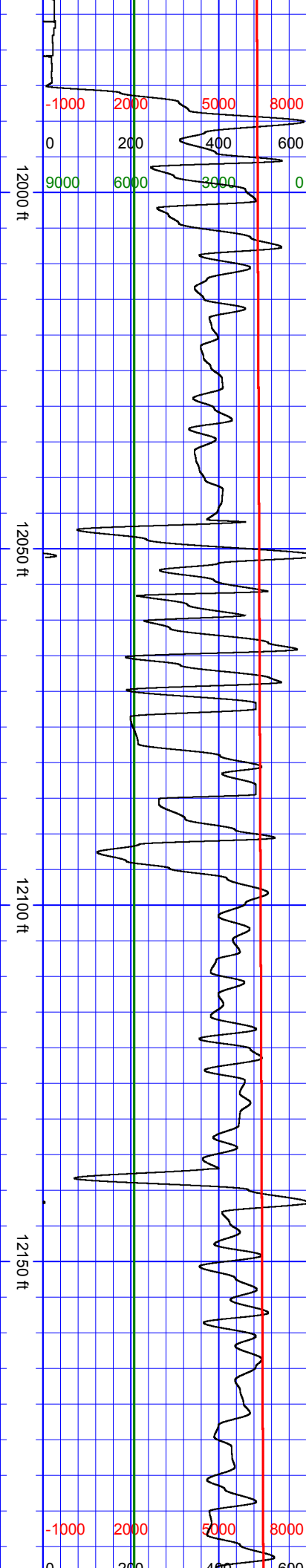
SurveyDepth:11900
TVD:5873.42 Inc:91.28
Azi:1.6 VertSec:6234.77

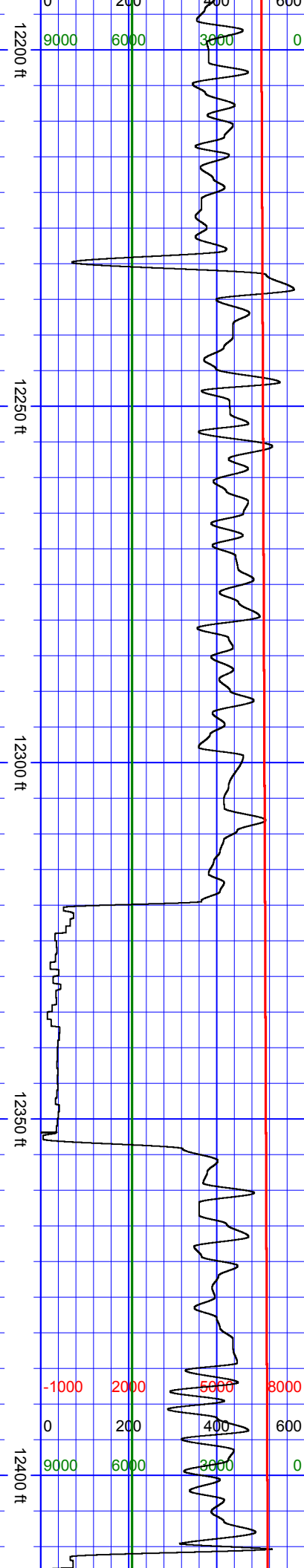




SurveyDepth:11991
TVD:5872.94 Inc:89.3
Azi:0.6 VertSec:6325.72

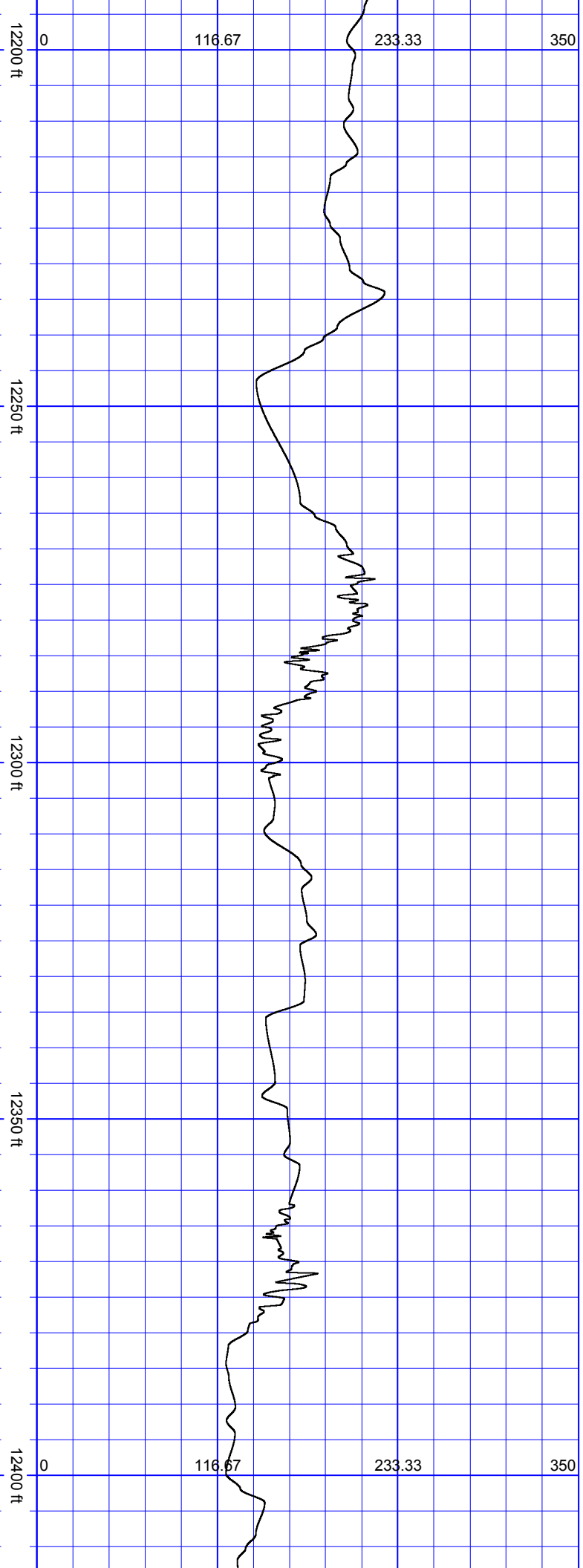
SurveyDepth:12082
TVD:5874.21 Inc:89.1
Azi:0.3 VertSec:6416.7

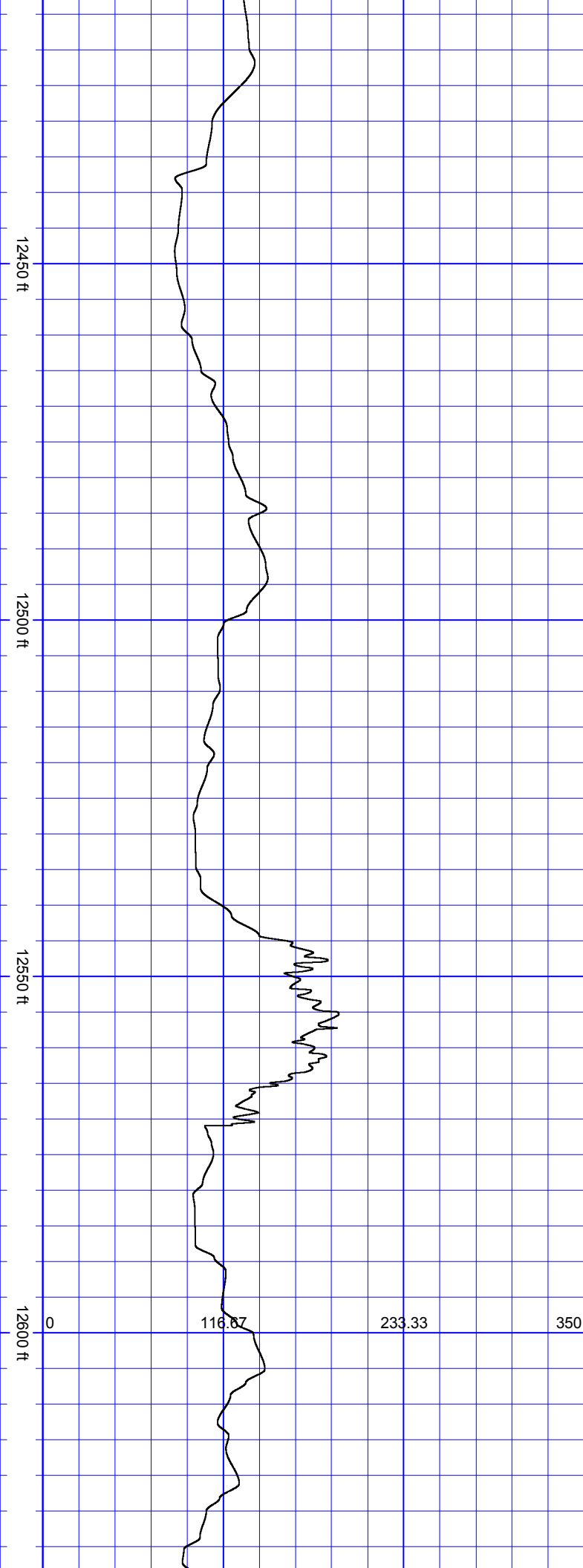




SurveyDepth:12264
TVD:5880.41 Inc:87
Azi:357.8
VertSec:6598.56

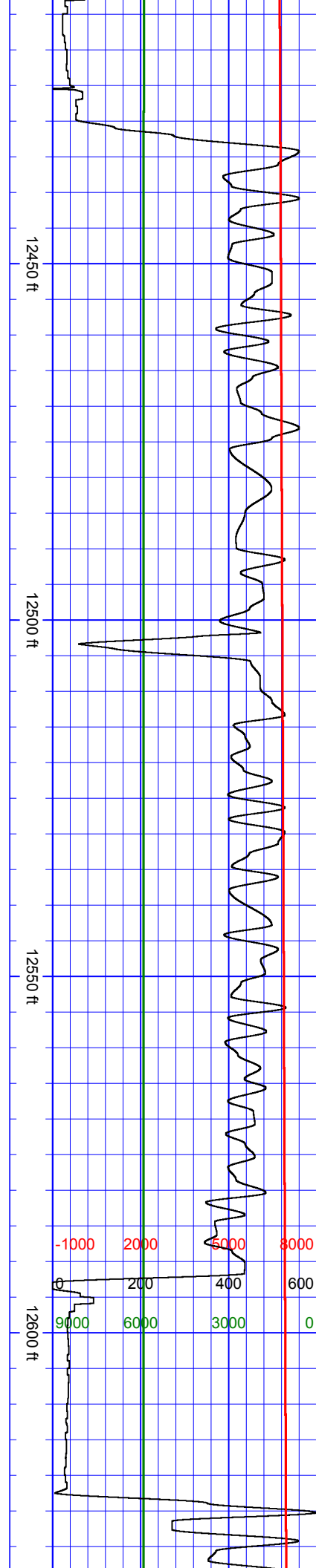
SurveyDepth:12355
TVD:5884.38 Inc:88
Azi:0.1 VertSec:6689.47

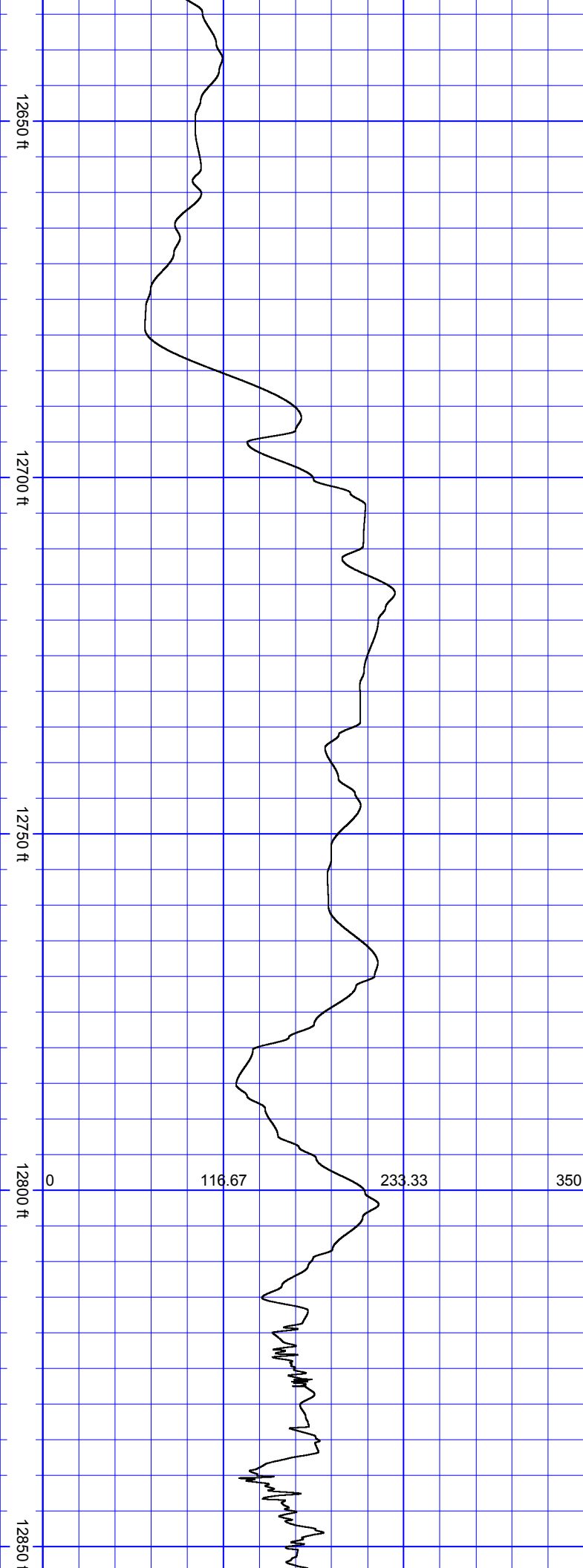




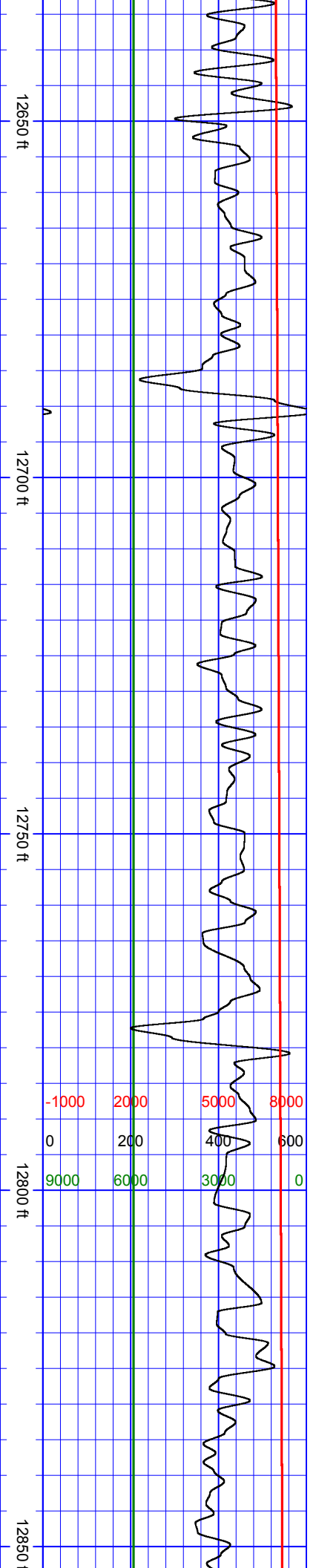
SurveyDepth:12446
TVD:5886.36 Inc:89.5
Azi:359.3
VertSec:6780.44

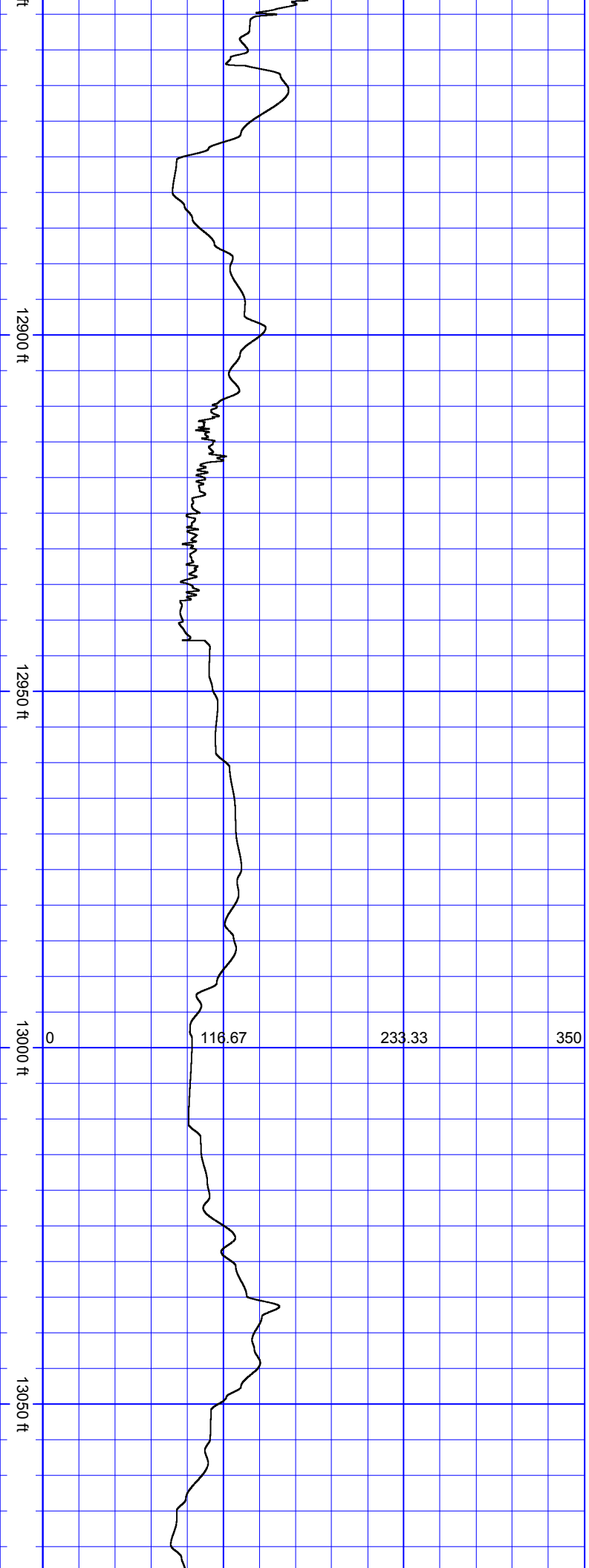
SurveyDepth:12538
TVD:5887.65 Inc:88.9
Azi:358.4
VertSec:6872.43





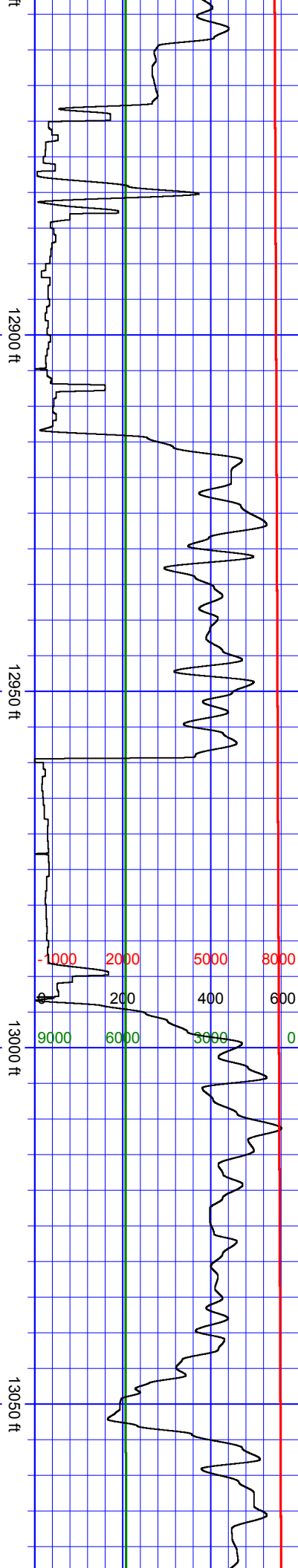
SurveyDepth:12720
TVD:5890.19 Inc:89.5
Azi:358.9
VertSec:7054.39





SurveyDepth:12903
TVD:5892.42 Inc:89.1
Azi:359.7
VertSec:7237.38

SurveyDepth:12995
TVD:5890.66 Inc:93.1
Azi:1.2 VertSec:7329.32



SurveyDepth:13086
TVD:5884.71 Inc:94.4
Azi:0.9 VertSec:7420.09

13100 ft

13150 ft

13200 ft

13250 ft

SurveyDepth:13270
TVD:5876.68 Inc:90.6
Azi:2.3 VertSec:7603.74

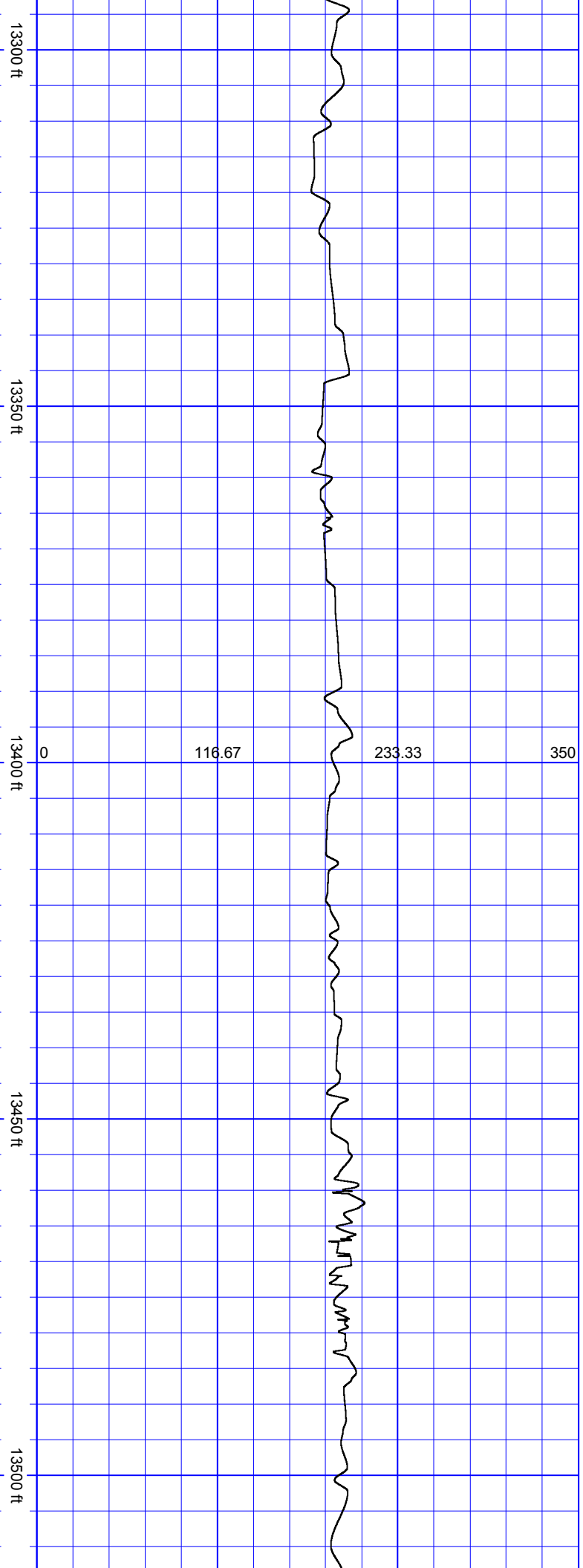
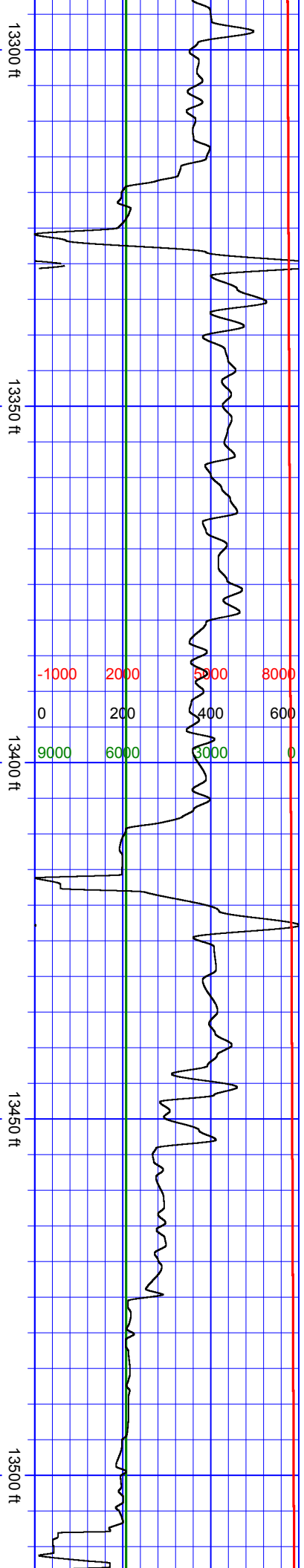
13100 ft

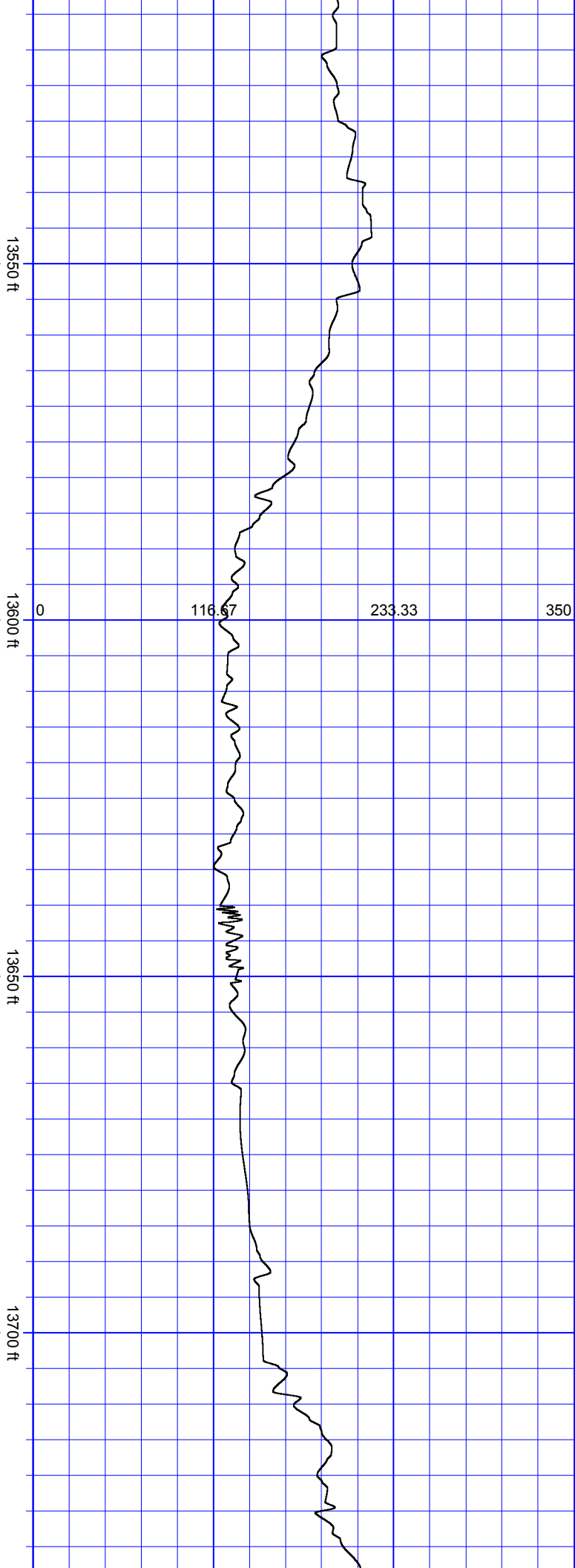
13150 ft

13200 ft

13250 ft

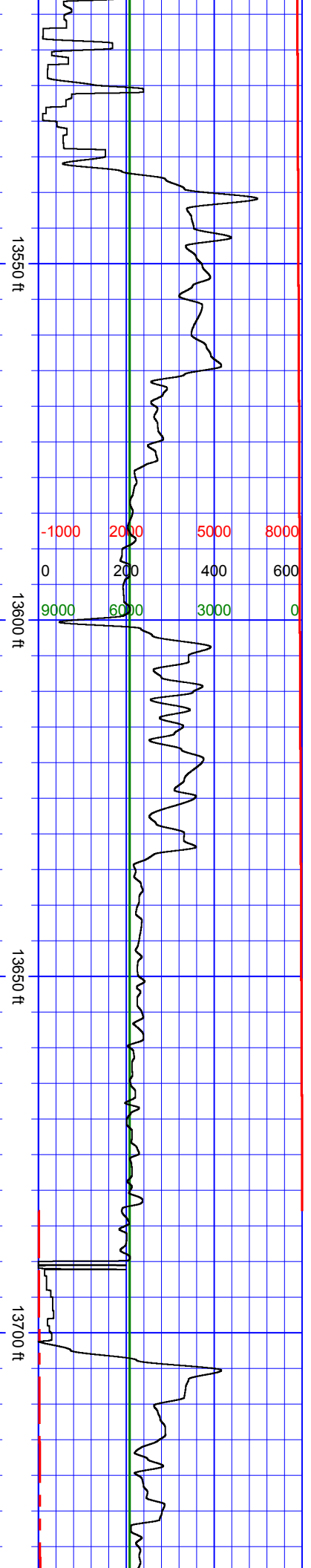
-1000	2000	5000	8000
0	200	400	600
9000	6000	3000	0

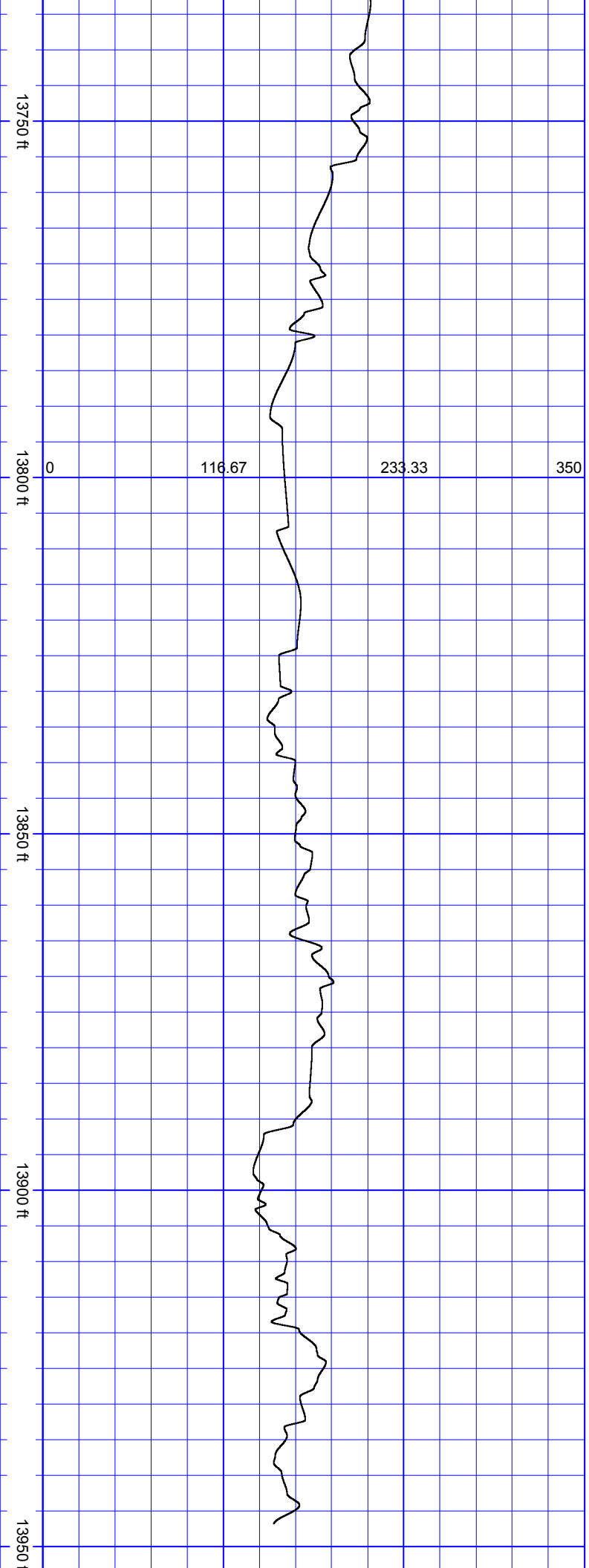




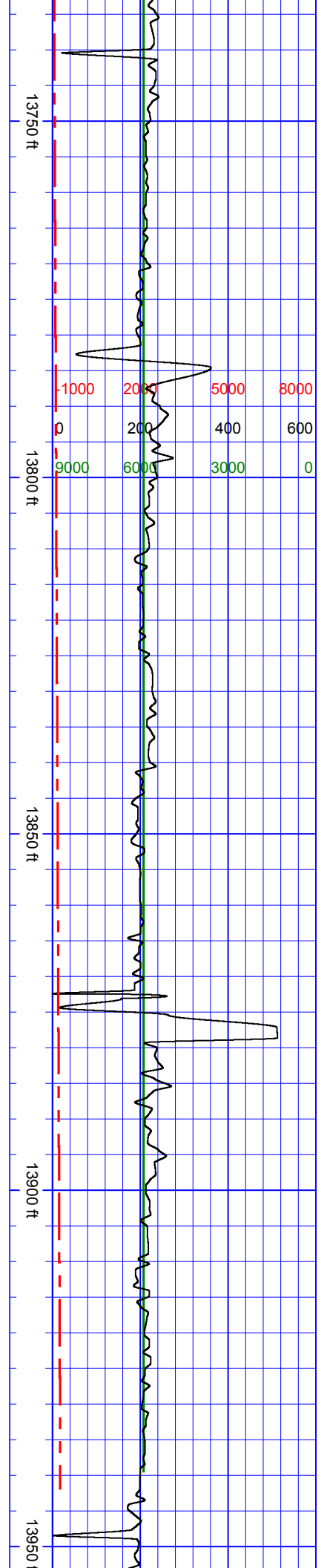
SurveyDepth:13543
TVD:5877.63 Inc:89
Azi:1.9 VertSec:7876.42

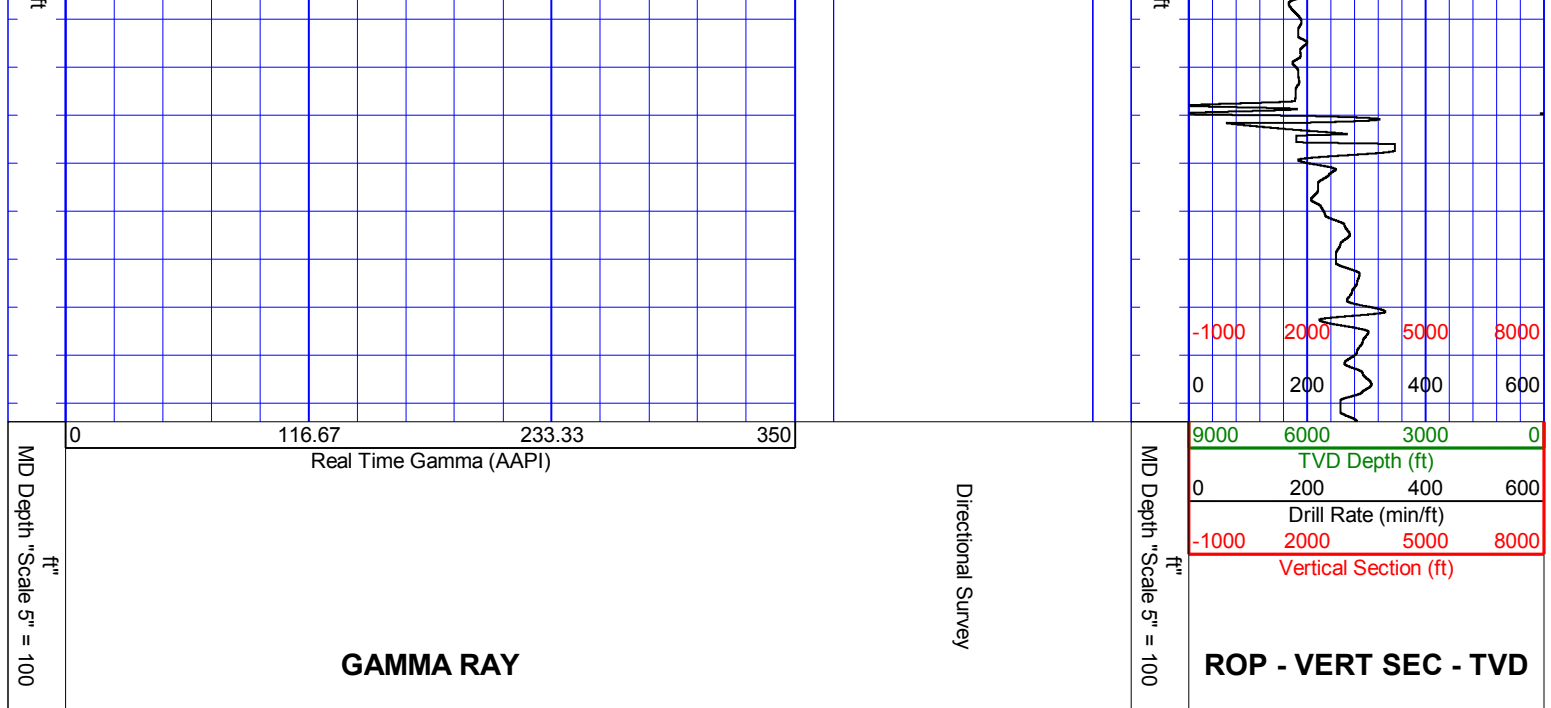
SurveyDepth:13726
TVD:5882.27 Inc:88.1
Azi:1.1 VertSec:8059.24





SurveyDepth:13942
TVD:5887.92 Inc:88.91
Azi:359.82
VertSec:8275.12





Oil Company: Whiting Oil and Petroleum
 Well Name: Razor 21B-0910B
 Surface Location: S21-T10N-R58W
 Bit Run: 3
 Log Depth Start: 5000.00 ft Log Depth End: 13996.98 ft
 Data Depth Start: 5001.44 ft Data Depth End: 13996.98 ft