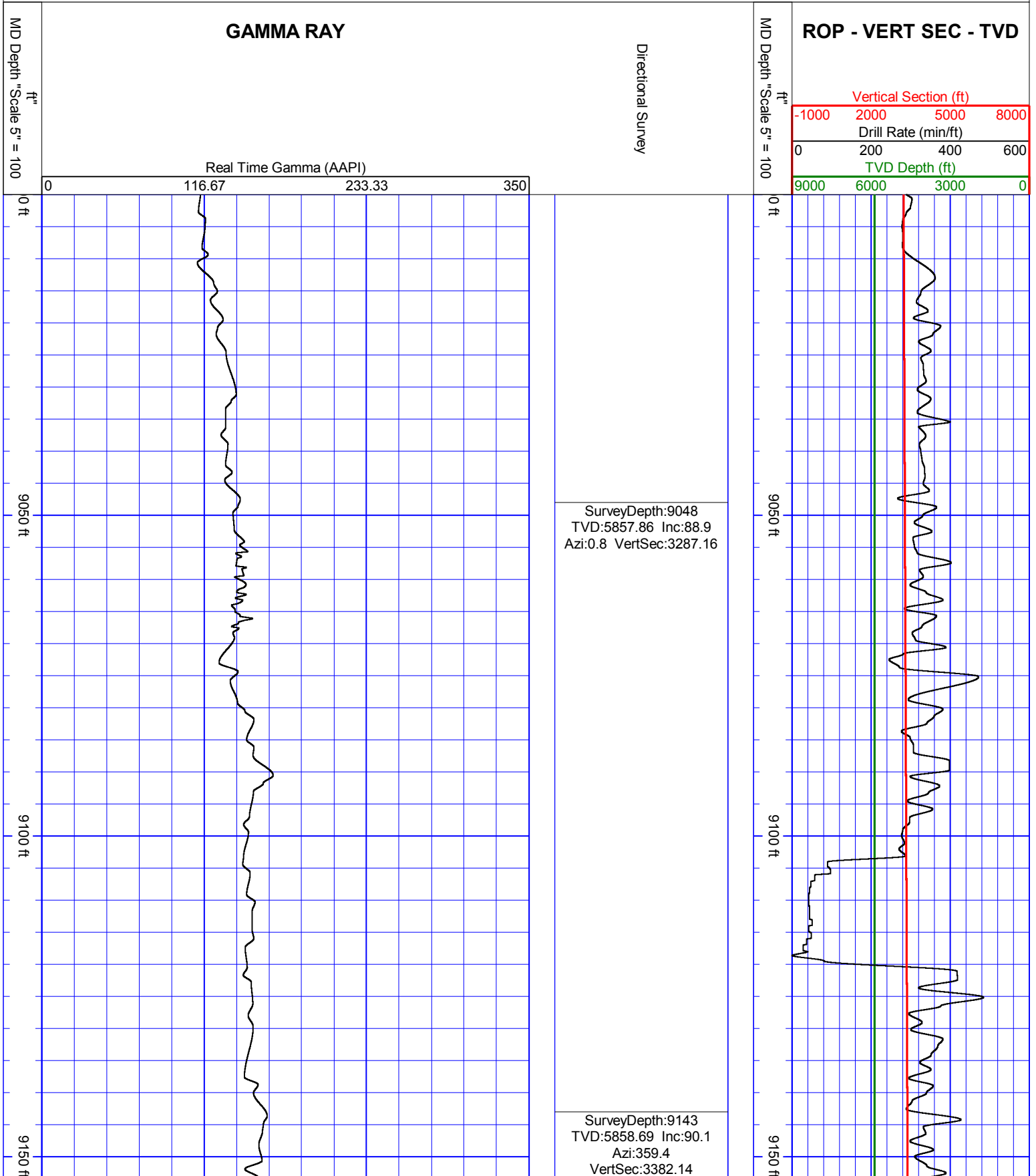
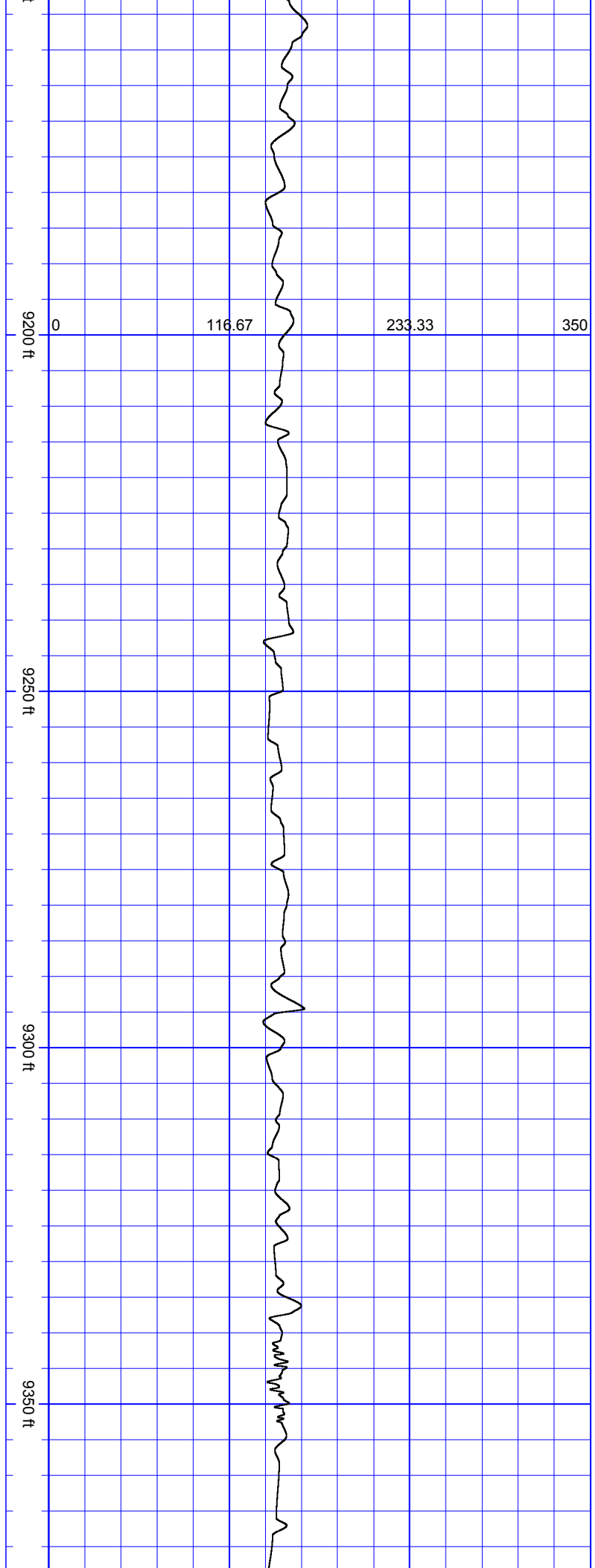




Oil Company: Whiting Petroleum Corp  
Well Name: Razor #21C-0906B  
Surface Location: S21-T10N-R58  
Bit Run:  
Log Depth Start: 9000.00 ft    Log Depth End: 13512.79 ft  
Data Depth Start: 9000.00 ft    Data Depth End: 13512.79 ft

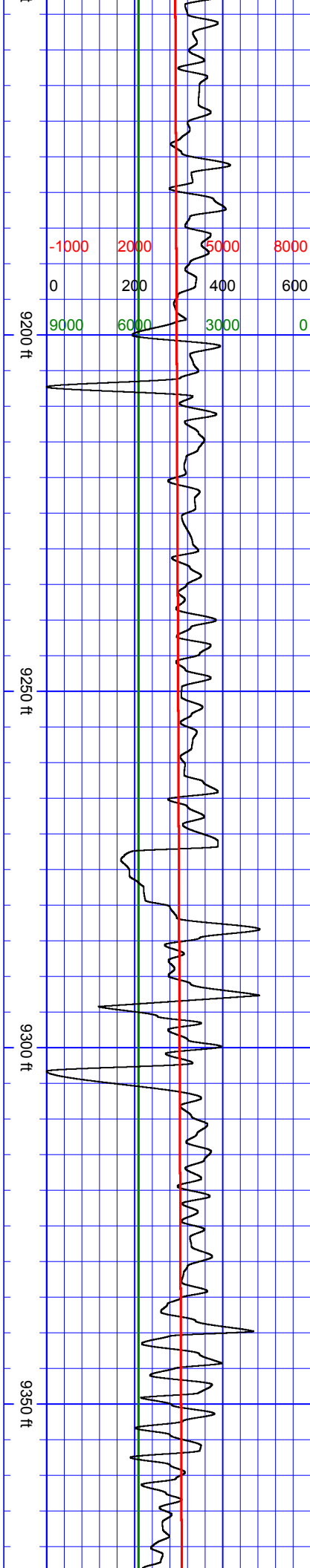
Interpretations of this data by Cathedral Energy Services will be of best judgment as to correctness. Cathedral Energy Services cannot and does not guarantee the accuracy or correctness of interpretations or any surveys derived therefrom. Cathedral Energy Services makes no warranties of performance, 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.

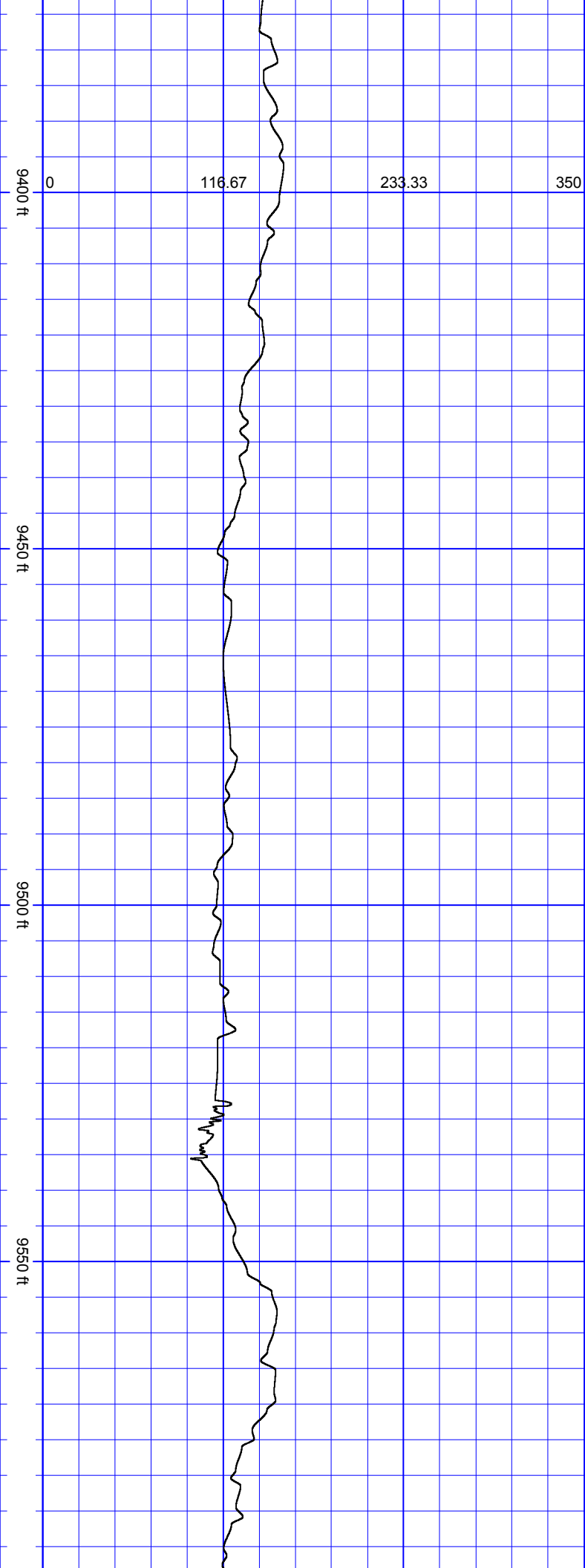




SurveyDepth:9238  
TVD:5858.36 Inc:90.3  
Azi:0.2 VertSec:3477.14

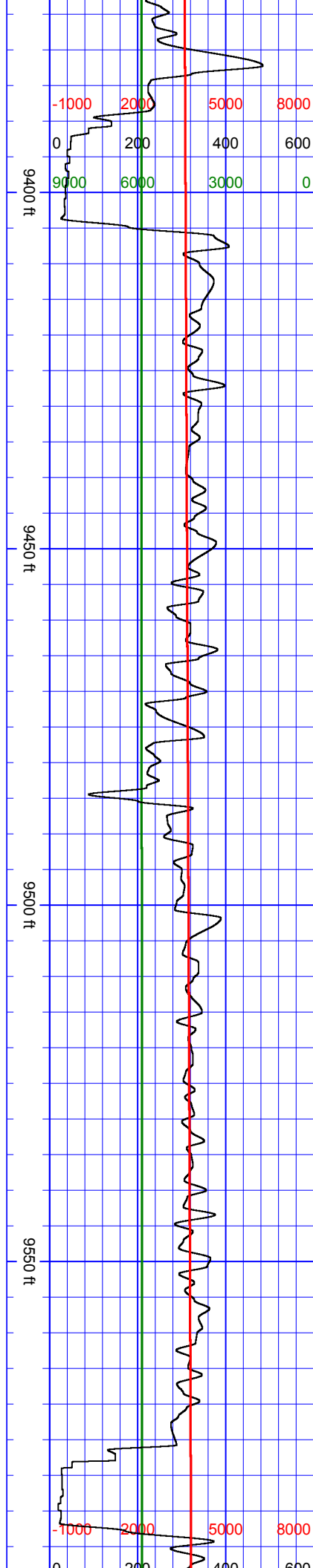
SurveyDepth:9334  
TVD:5858.02 Inc:90.1  
Azi:0 VertSec:3573.13

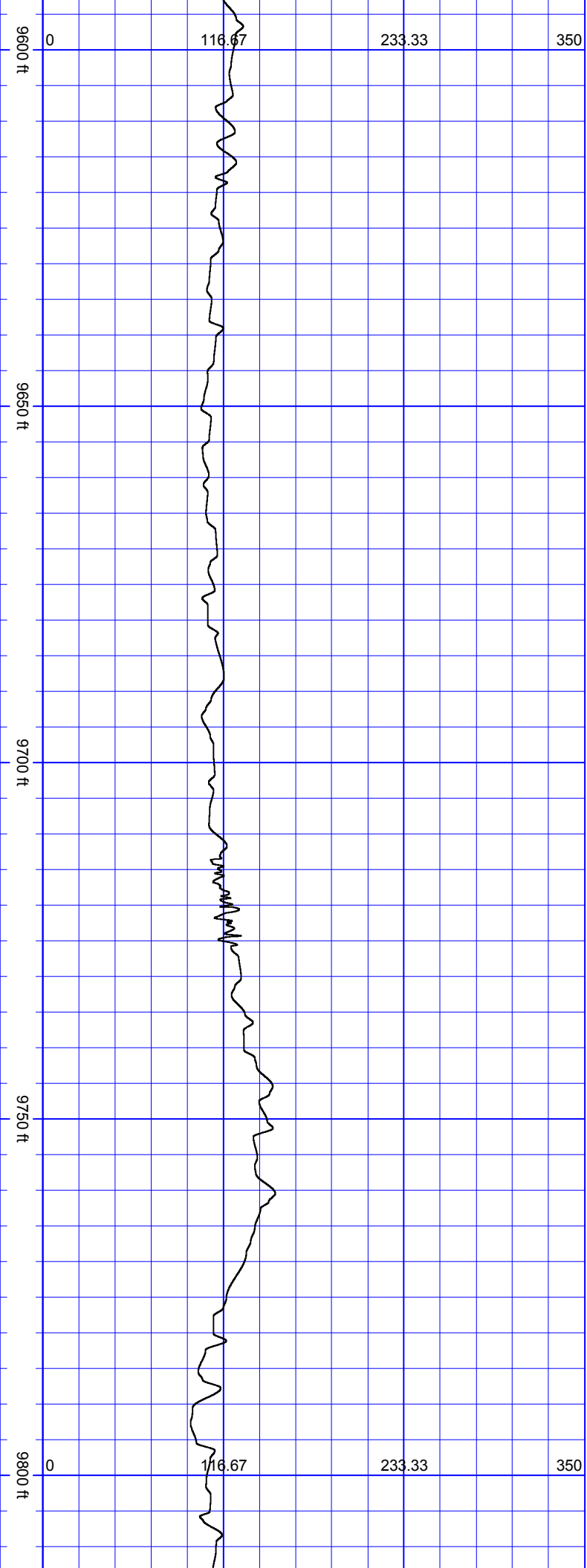




SurveyDepth:9429  
TVD:5856.2 Inc:92.1  
Azi:2 VertSec:3668.07

SurveyDepth:9521  
TVD:5853.07 Inc:91.8  
Azi:1.1 VertSec:3759.95

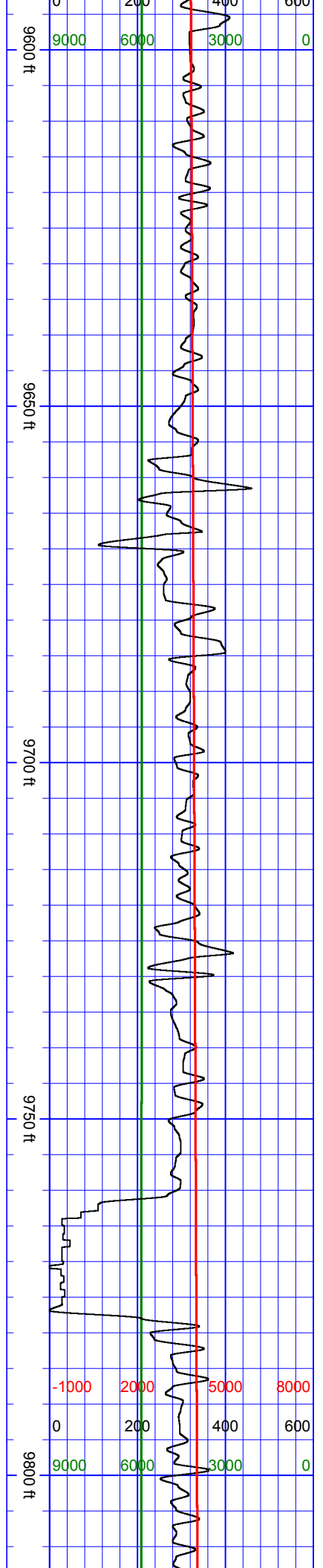


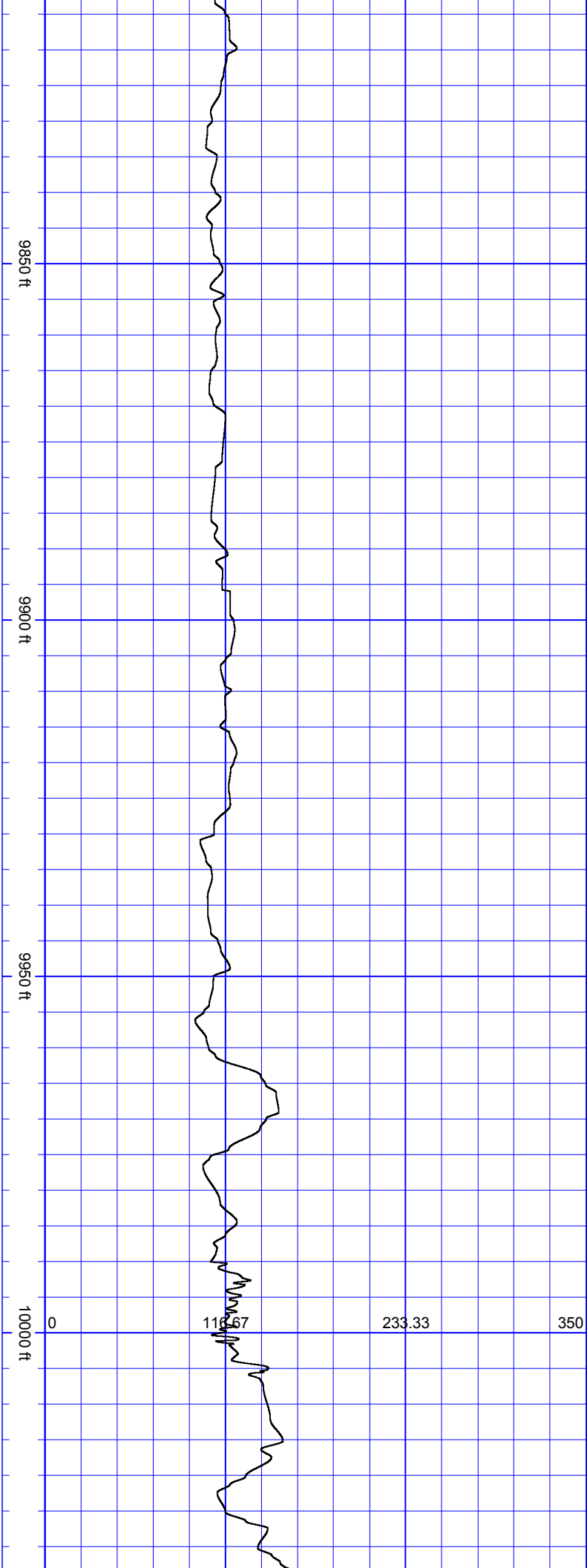


SurveyDepth:9613  
TVD:5851.86 Inc:89.7  
Azi:1.1 VertSec:3851.89

SurveyDepth:9706  
TVD:5853.33 Inc:88.5  
Azi:359.4  
VertSec:3944.86

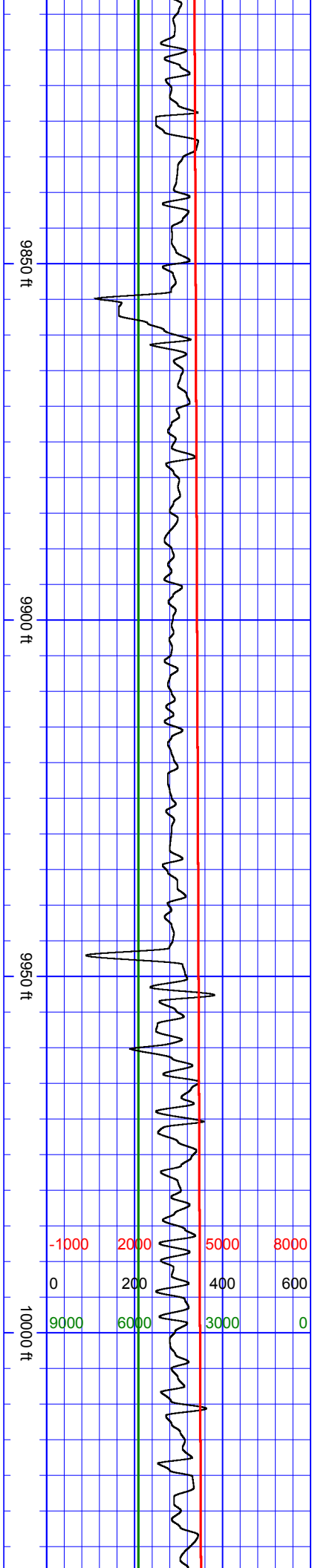
SurveyDepth:9799  
TVD:5854.95 Inc:89.5  
Azi:360 VertSec:4037.85

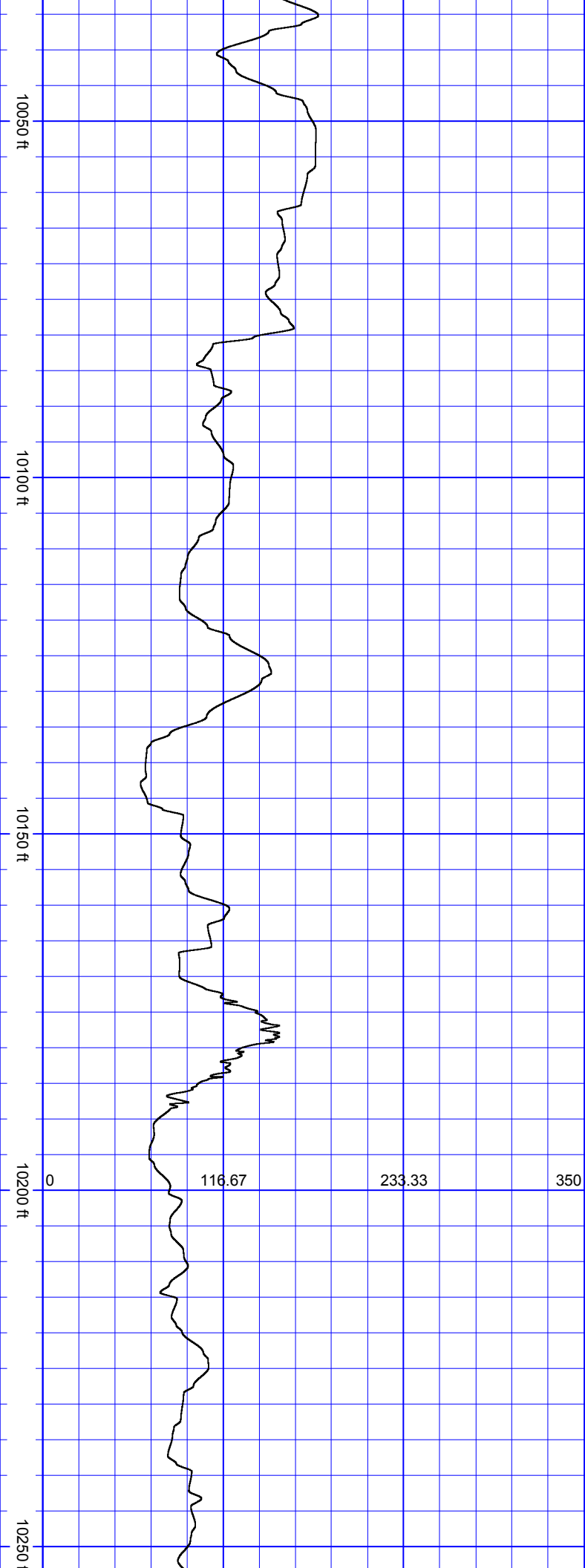




SurveyDepth:9891  
TVD:5855.99 Inc:89.2  
Azi:359.5  
VertSec:4129.84

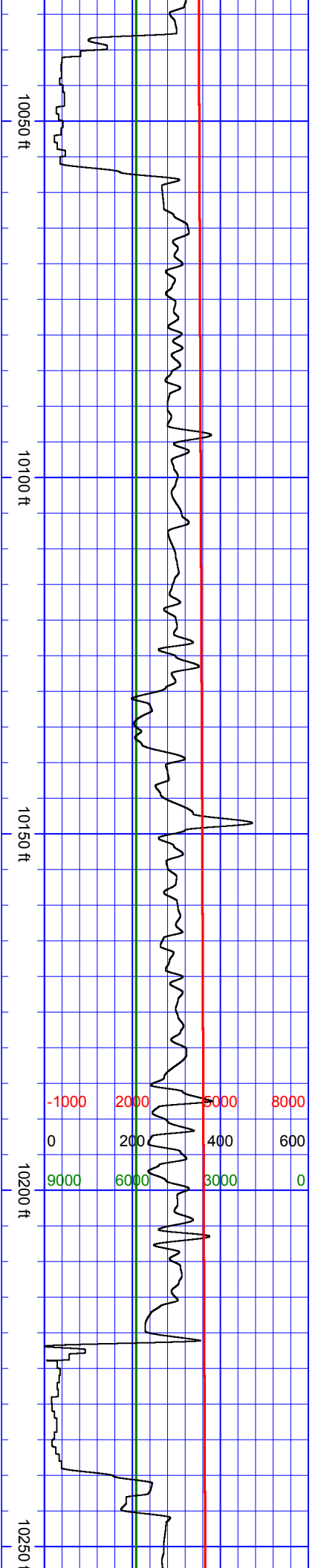
SurveyDepth:9982  
TVD:5857.98 Inc:88.3  
Azi:358.4  
VertSec:4220.81

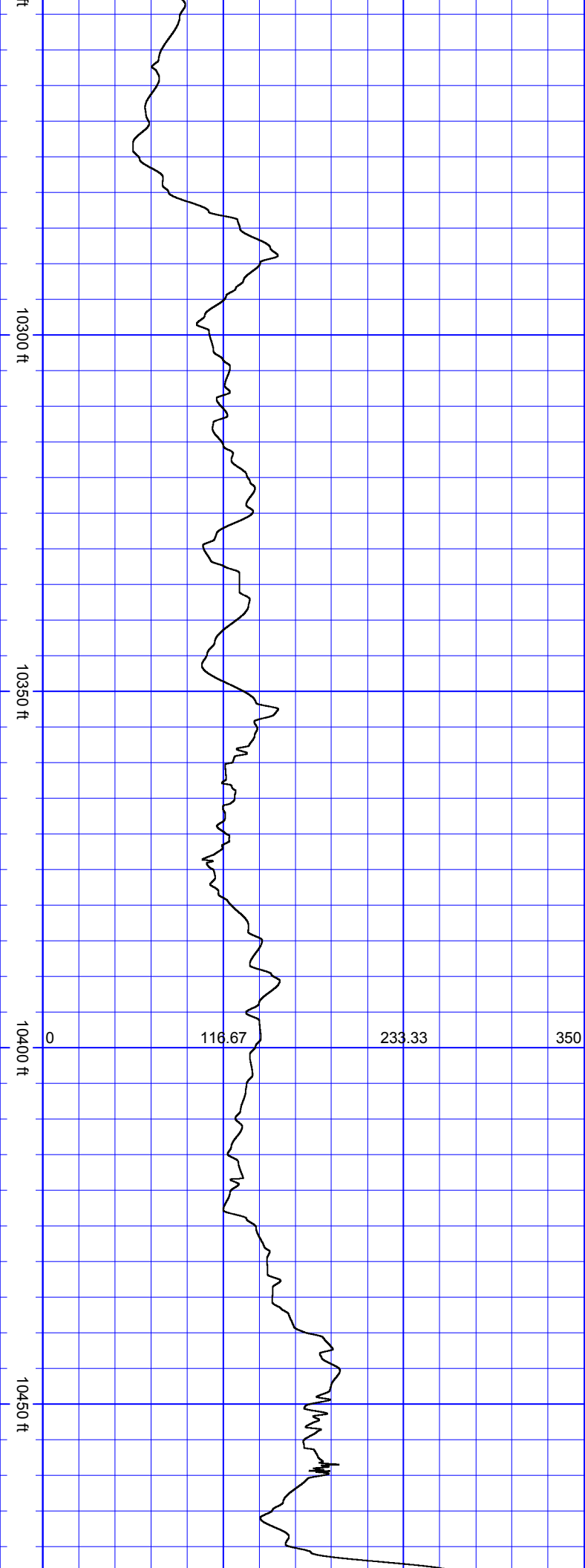




SurveyDepth:10075  
TVD:5860.01 Inc:89.2  
Azi:0.1 VertSec:4313.78

SurveyDepth:10167  
TVD:5862.17 Inc:88.1  
Azi:359.1  
VertSec:4405.76

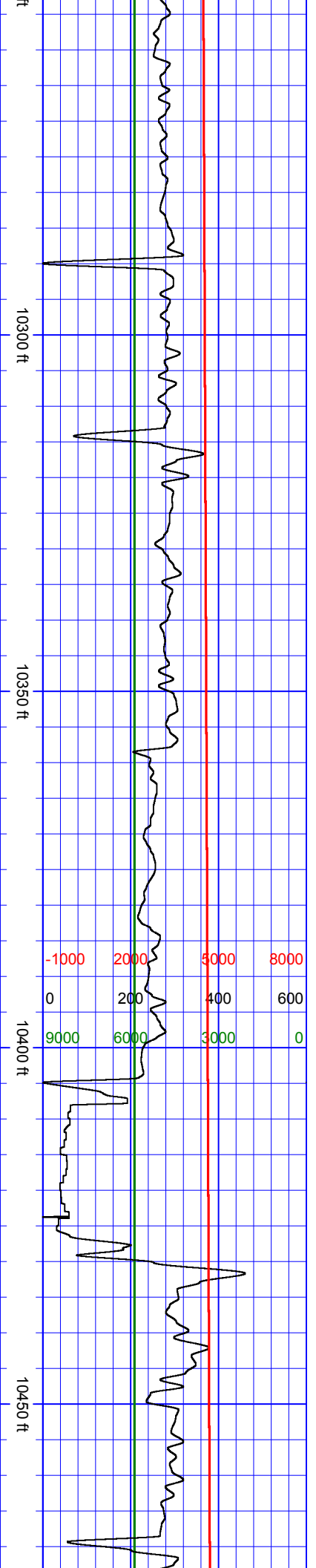


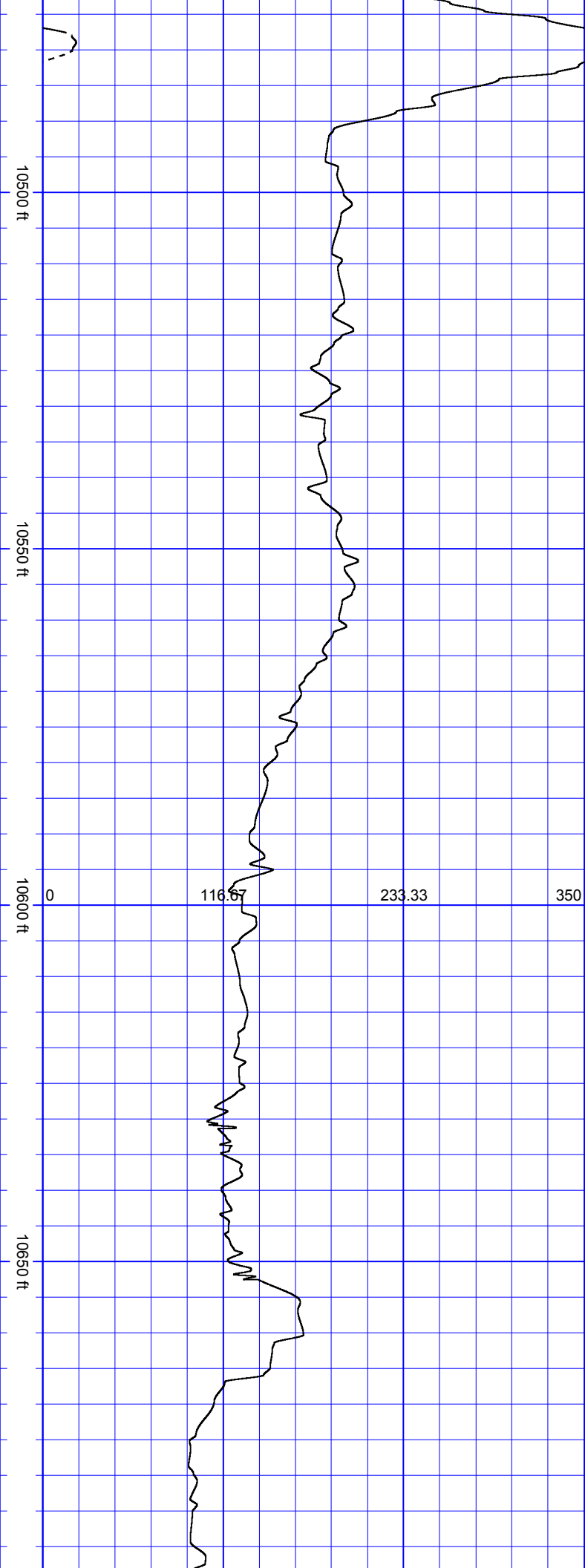


SurveyDepth:10259  
TVD:5864.18 Inc:89.4  
Azi:0 VertSec:4497.73

SurveyDepth:10350  
TVD:5866.25 Inc:88  
Azi:359.1  
VertSec:4588.7

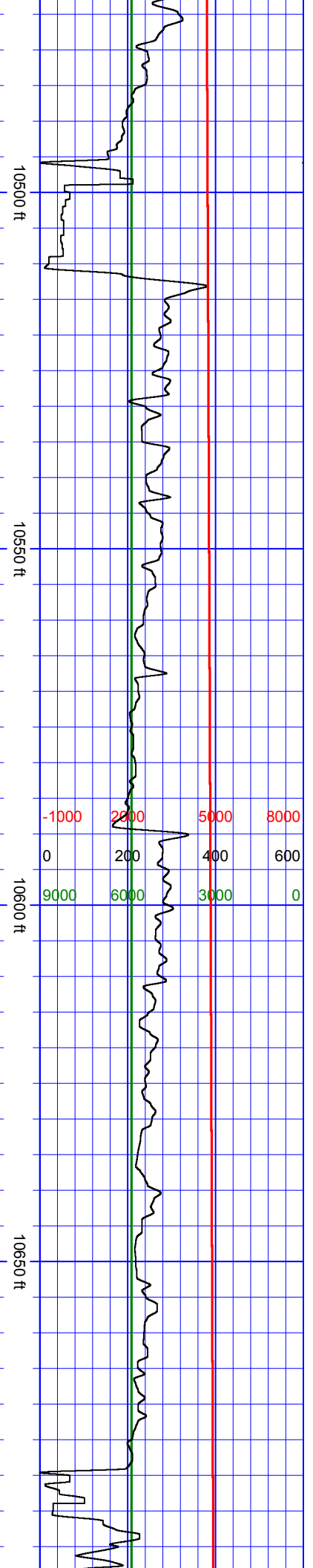
SurveyDepth:10441  
TVD:5868.39 Inc:89.3  
Azi:359.8  
VertSec:4679.68



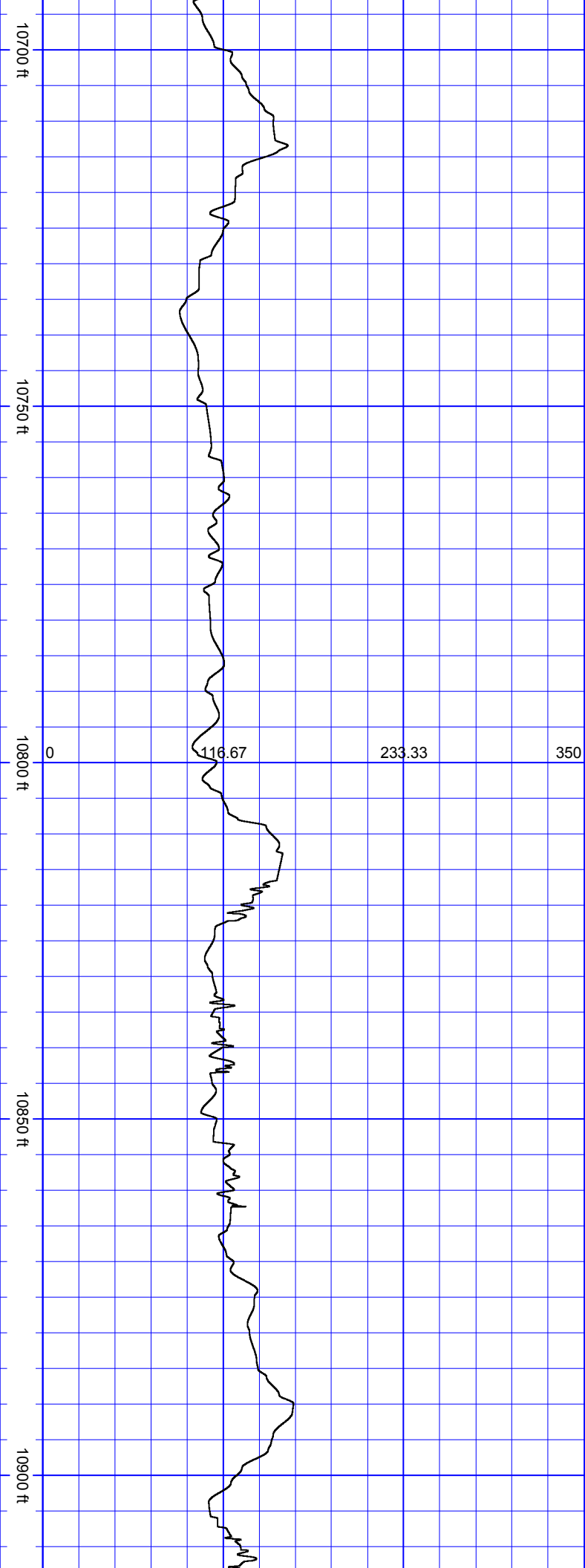


SurveyDepth:10533  
TVD:5868.79 Inc:90.2  
Azi:0.1 VertSec:4771.67

SurveyDepth:10625  
TVD:5868.95 Inc:89.6  
Azi:359.4  
VertSec:4863.67



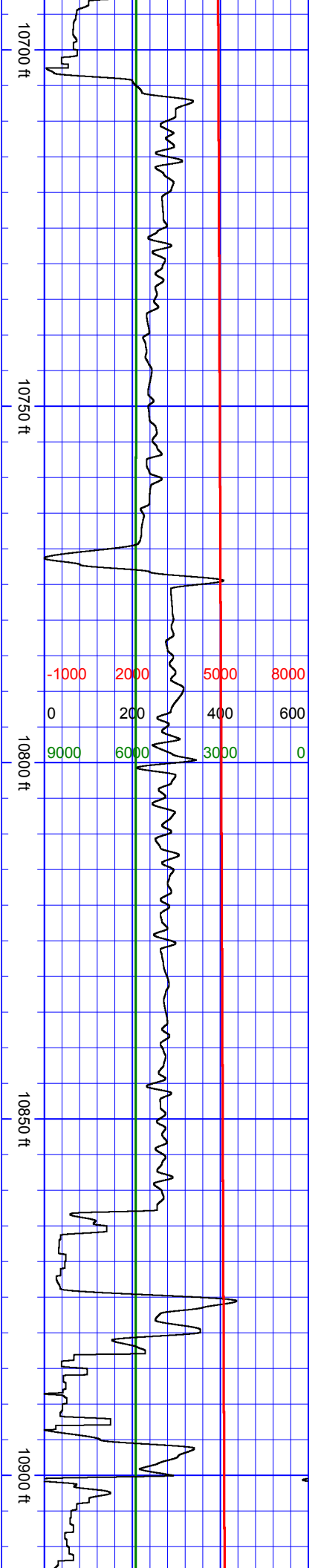


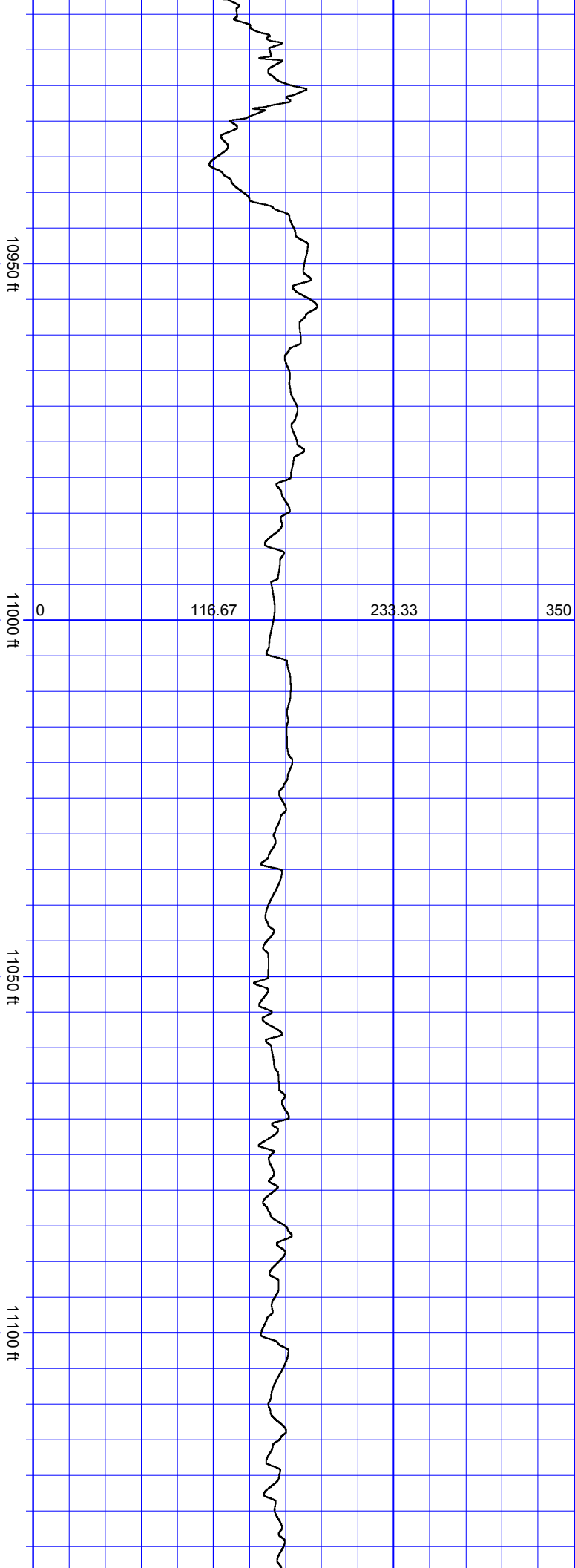


SurveyDepth:10716  
TVD:5869.59 Inc:89.6  
Azi:0.8 VertSec:4954.65

SurveyDepth:10807  
TVD:5871.1 Inc:88.5  
Azi:359.7  
VertSec:5045.63

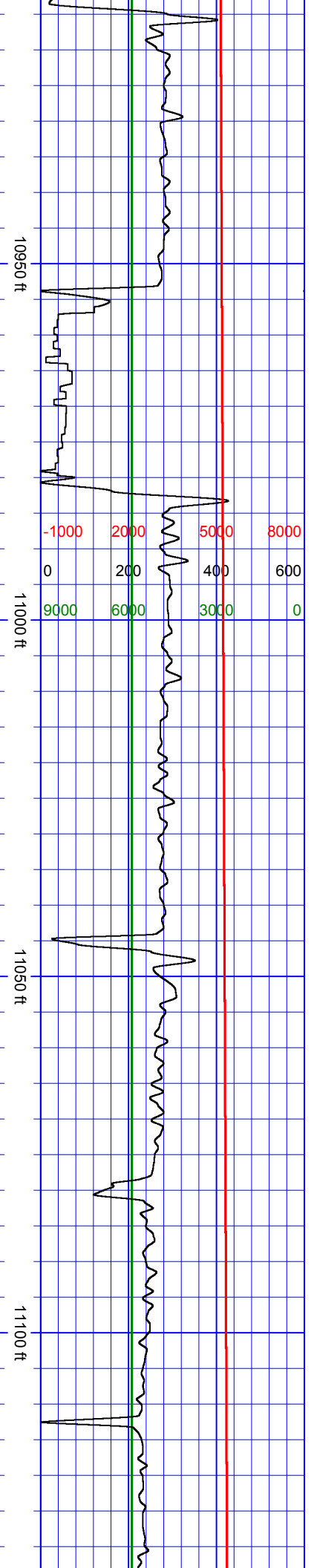
SurveyDepth:10898  
TVD:5874.67 Inc:87  
Azi:1.4 VertSec:5136.53

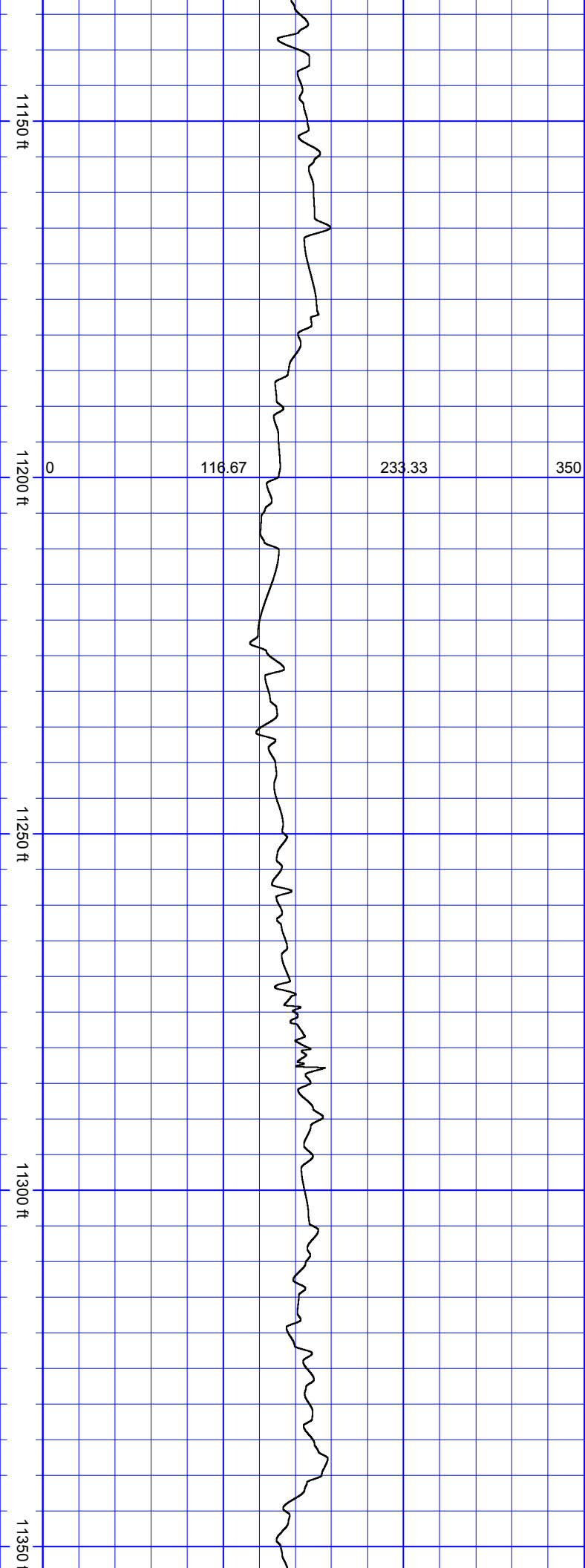




SurveyDepth:10989  
TVD:5876.41 Inc:90.8  
Azi:0.5 VertSec:5227.47

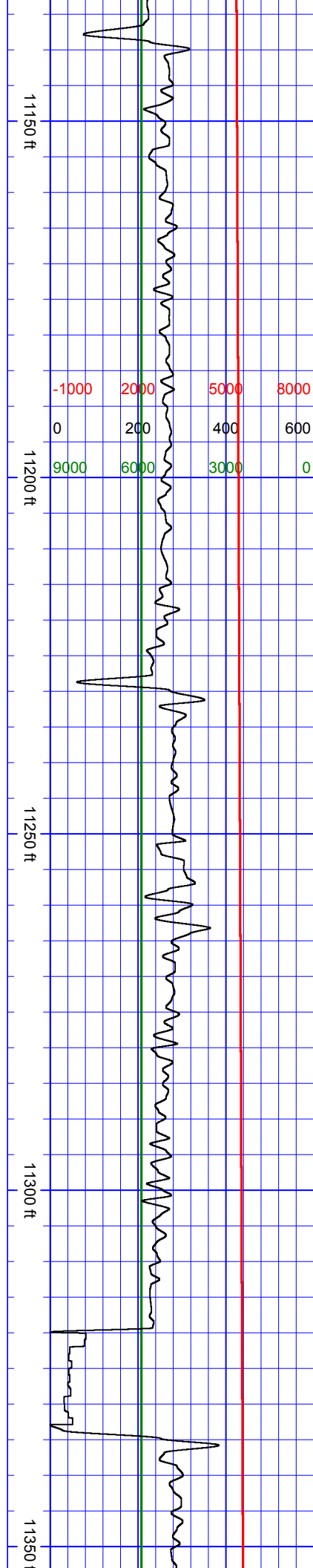
SurveyDepth:11081  
TVD:5875.37 Inc:90.5  
Azi:0.7 VertSec:5319.44

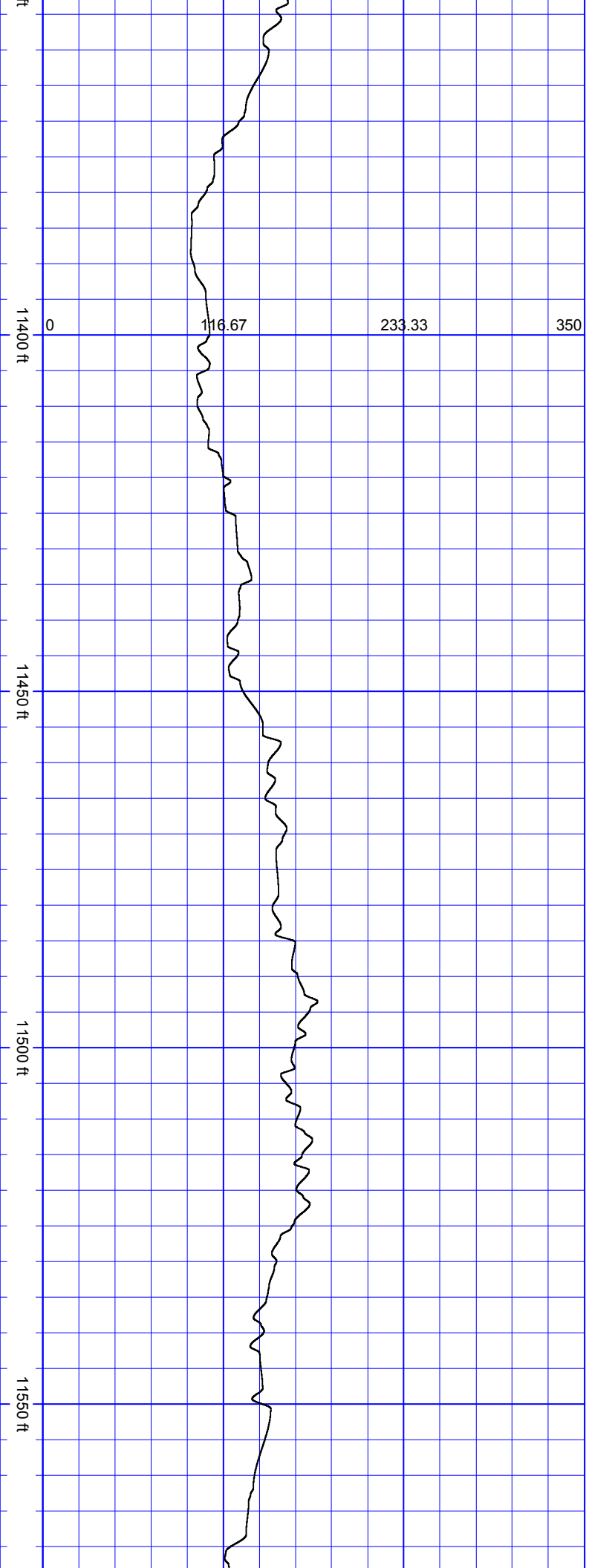




SurveyDepth:11172  
TVD:5875.29 Inc:89.6  
Azi:359.3  
VertSec:5410.43

SurveyDepth:11264  
TVD:5874.89 Inc:90.9  
Azi:1.4 VertSec:5502.41

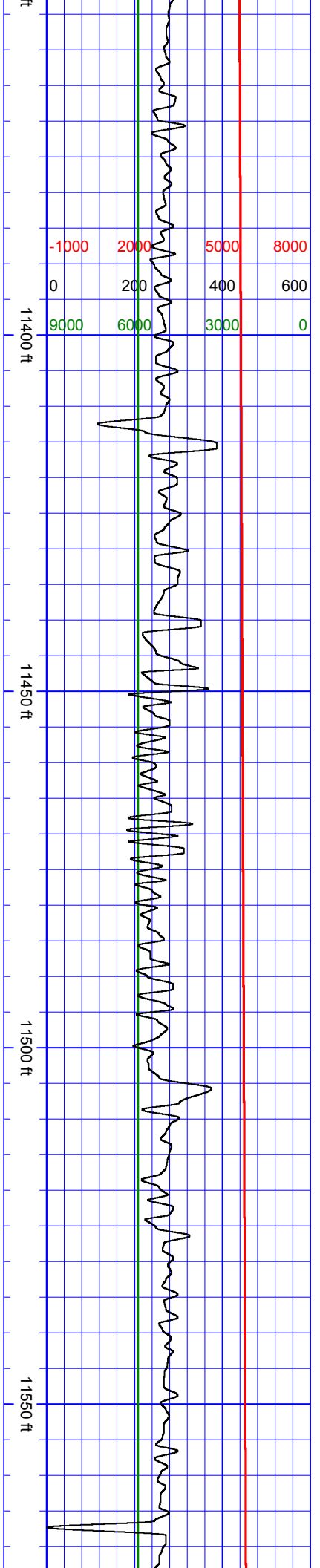




SurveyDepth:11356  
TVD:5875.21 Inc:88.7  
Azi:0.8 VertSec:5594.36

SurveyDepth:11448  
TVD:5877.22 Inc:88.8  
Azi:0.3 VertSec:5686.32

SurveyDepth:11538  
TVD:5879.18 Inc:88.7  
Azi:359.7  
VertSec:5776.29



11600 ft 0 116.67 233.33 350

11650 ft

11700 ft

11750 ft

SurveyDepth:11630  
TVD:5881.51 Inc:88.4  
Azi:358.7  
VertSec:5868.26

SurveyDepth:11721  
TVD:5884.69 Inc:87.6  
Azi:358.8  
VertSec:5959.2

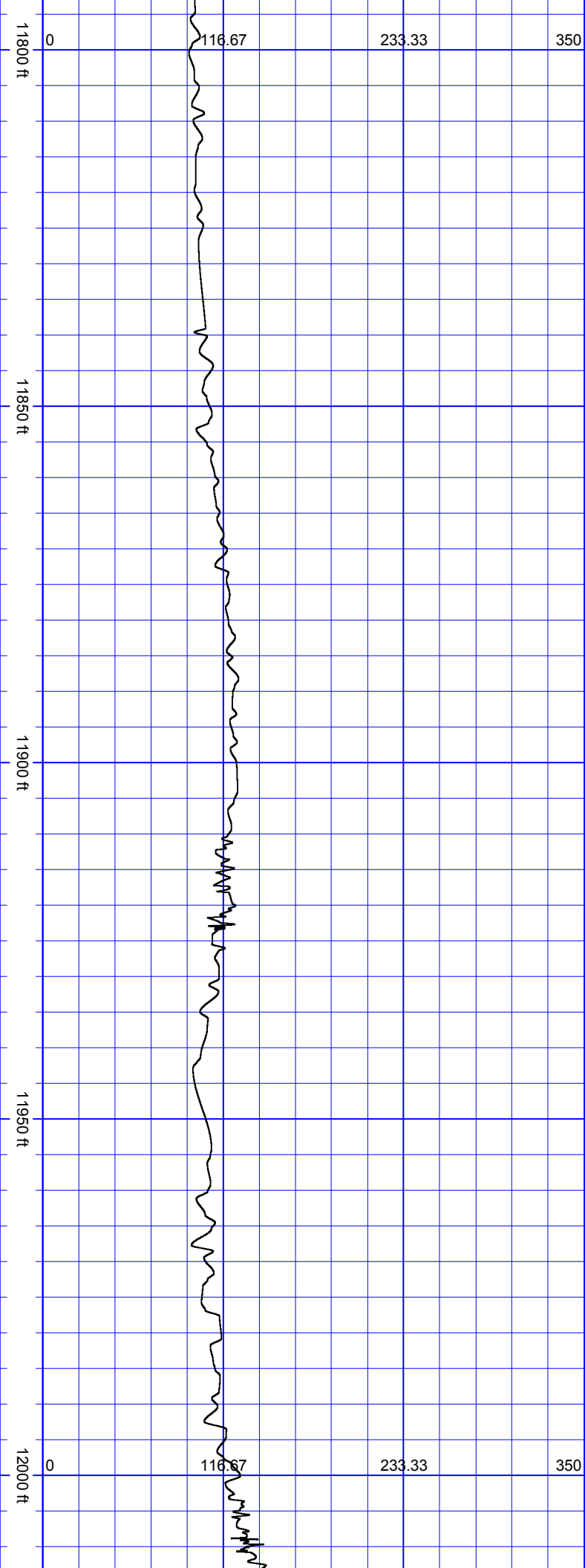
-1000 2000 5000 8000  
0 200 400 600  
9000 6000 3000 0

11650 ft

11700 ft

11750 ft

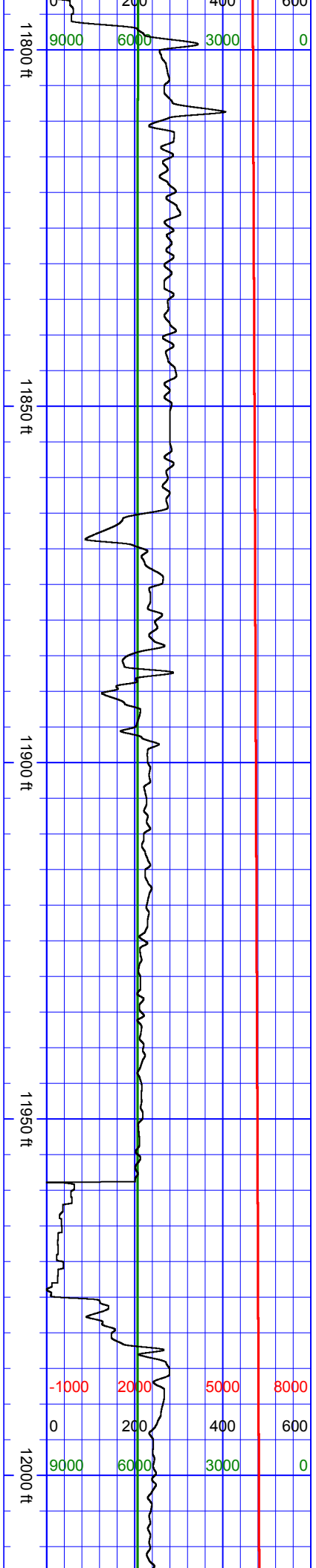
-1000 2000 5000 8000  
0 200 400 600

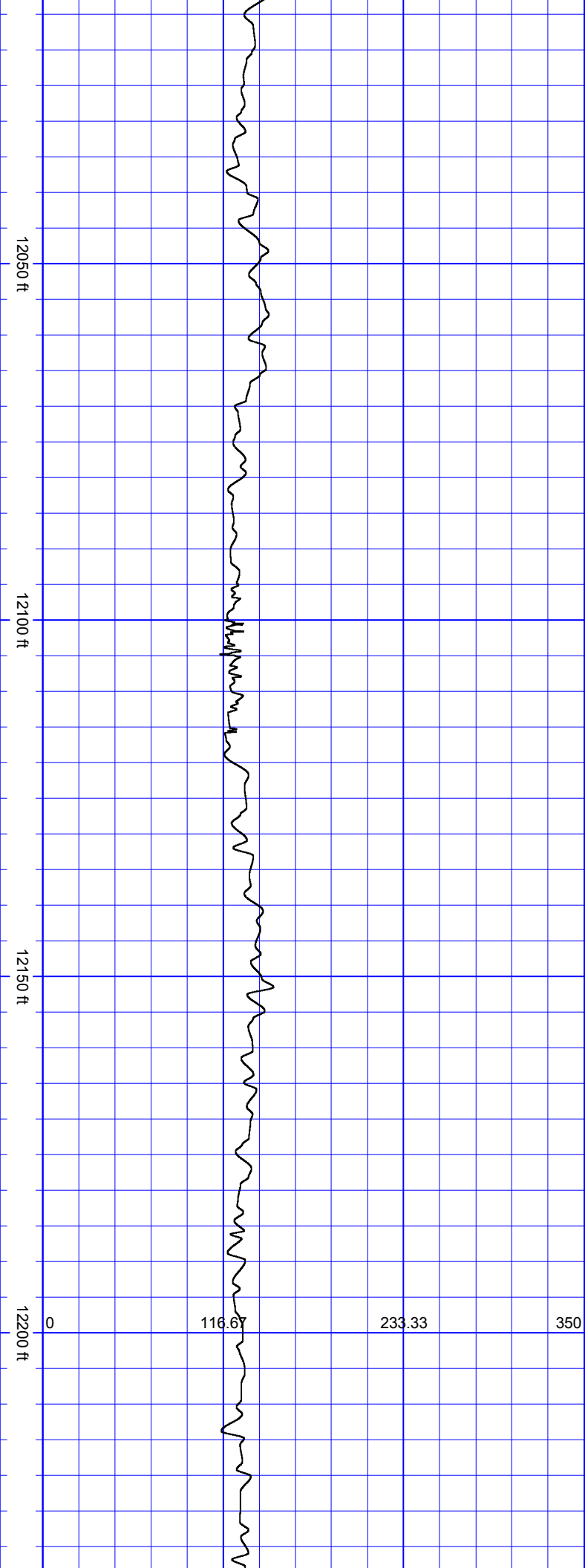


SurveyDepth:11812  
TVD:5886.59 Inc:90  
Azi:359.2  
VertSec:6050.17

SurveyDepth:11903  
TVD:5887.15 Inc:89.3  
Azi:359.1  
VertSec:6141.17

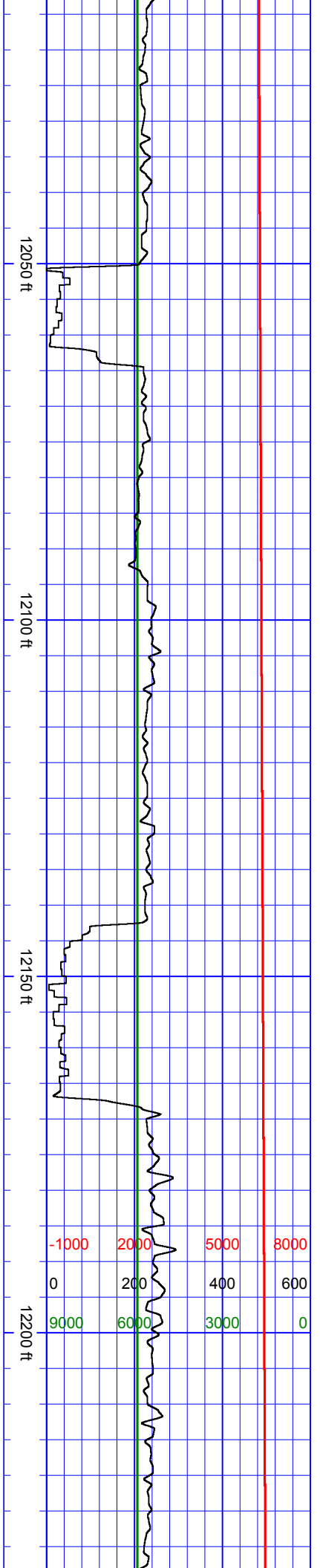
SurveyDepth:11995  
TVD:5887.63 Inc:90.1  
Azi:359.7  
VertSec:6233.16

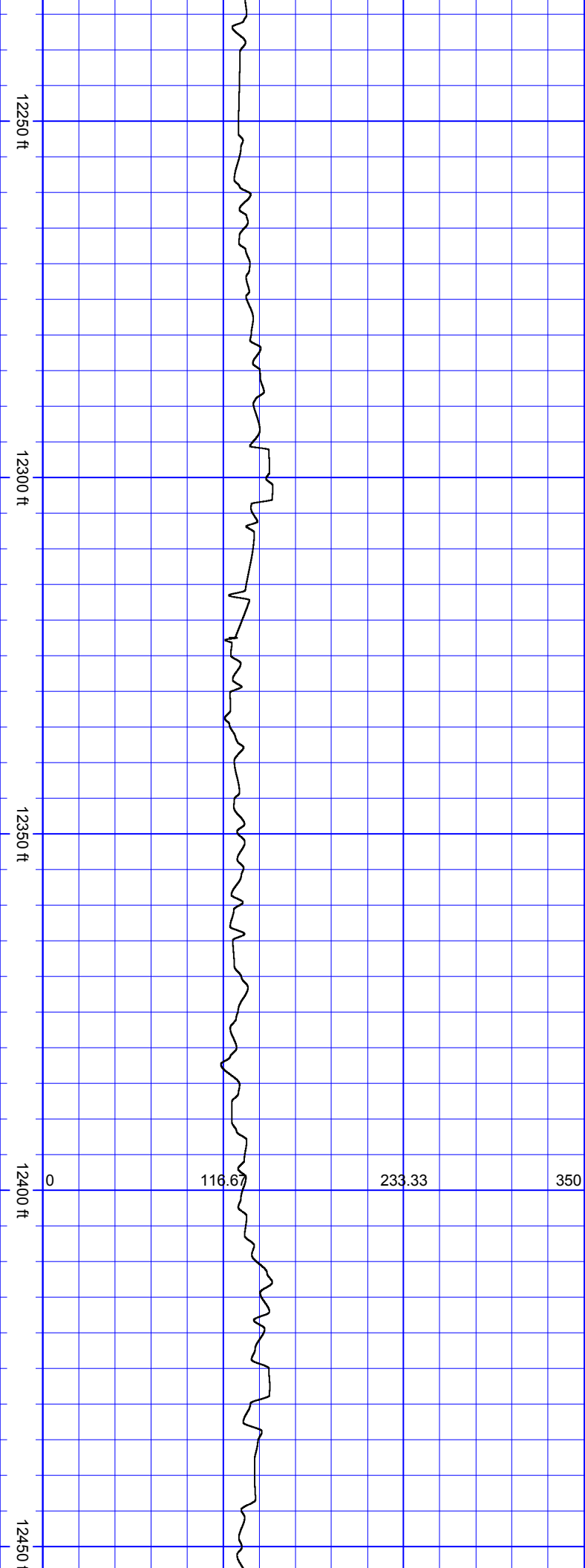




SurveyDepth:12087  
TVD:5887.47 Inc:90.1  
Azi:0.2 VertSec:6325.16

SurveyDepth:12178  
TVD:5887.63 Inc:89.7  
Azi:1 VertSec:6416.14

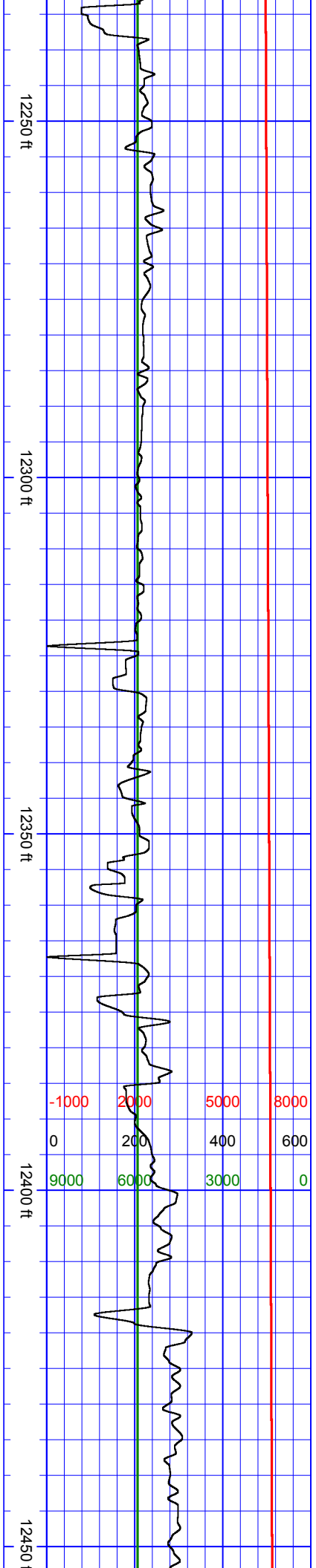




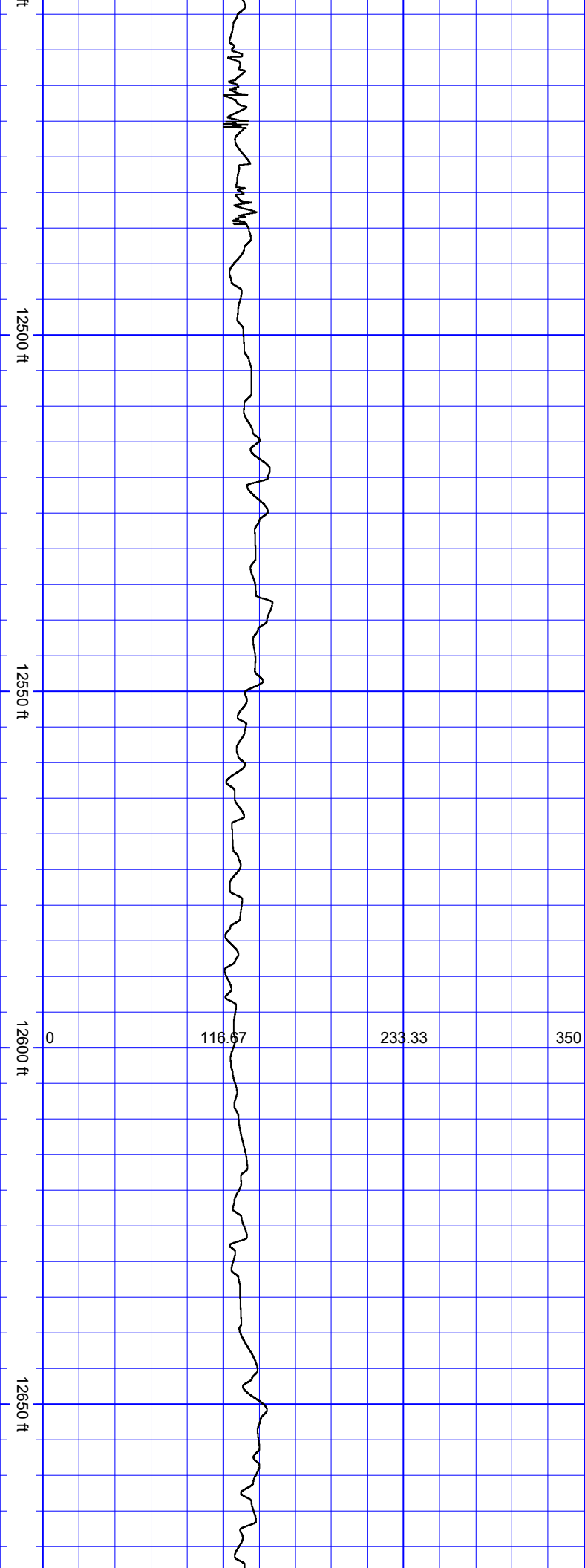
SurveyDepth:12269  
TVD:5887.55 Inc:90.4  
Azi:1.8 VertSec:6507.08

SurveyDepth:12361  
TVD:5887.31 Inc:89.9  
Azi:359.7  
VertSec:6599.05

SurveyDepth:12452



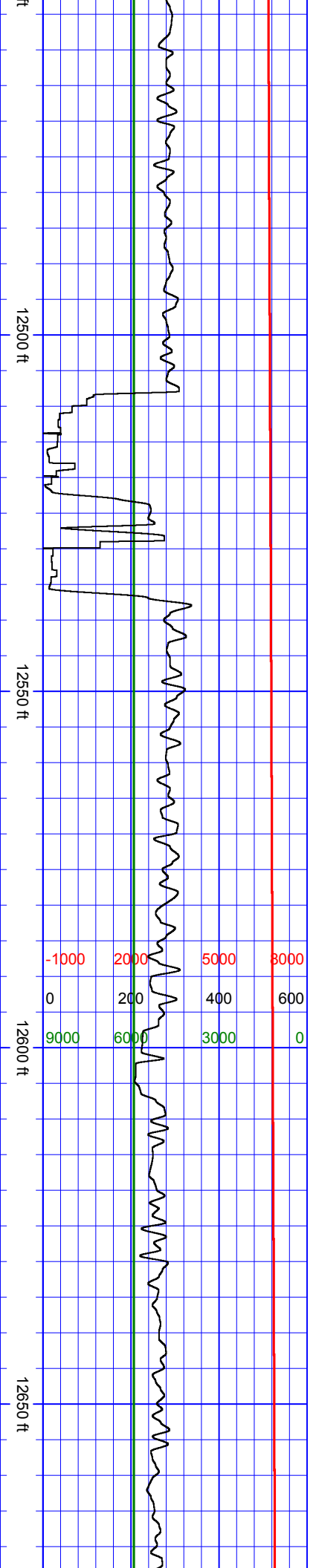


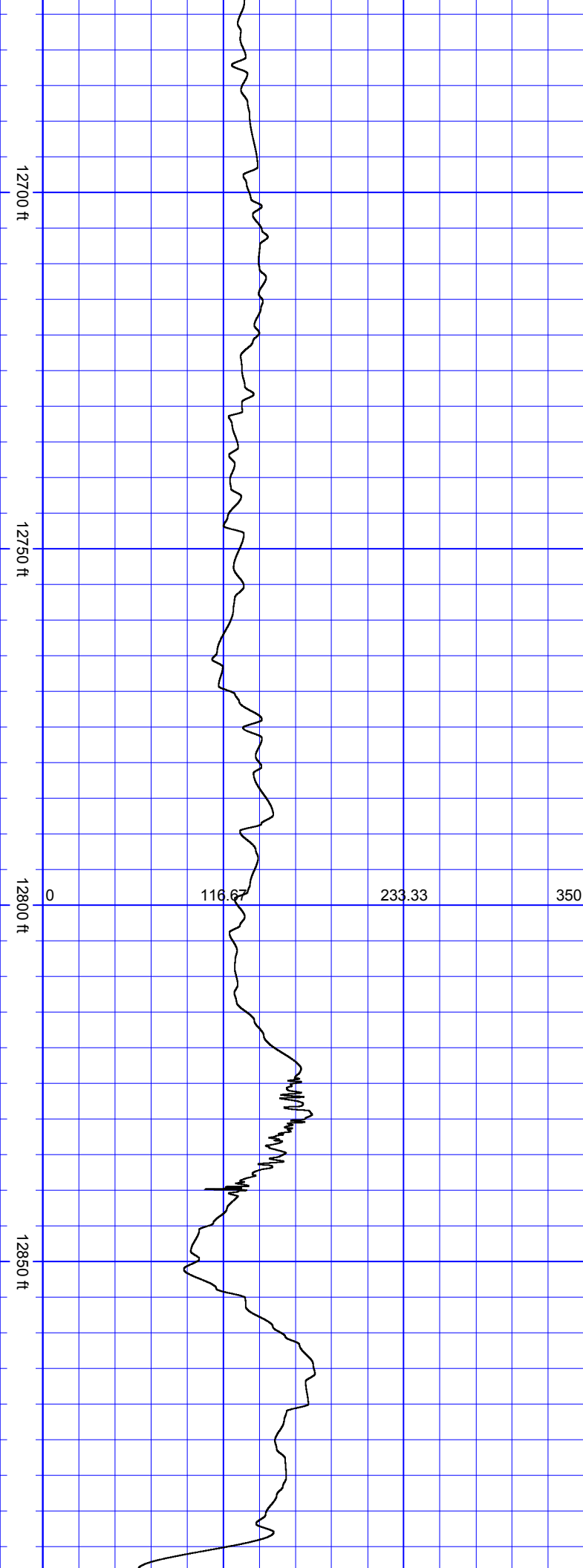


SurveyDepth:12452  
TVD:5887.7 Inc:89.6  
Azi:358.6  
VertSec:6690.05

SurveyDepth:12543  
TVD:5888.42 Inc:89.5  
Azi:1.2 VertSec:6781.03

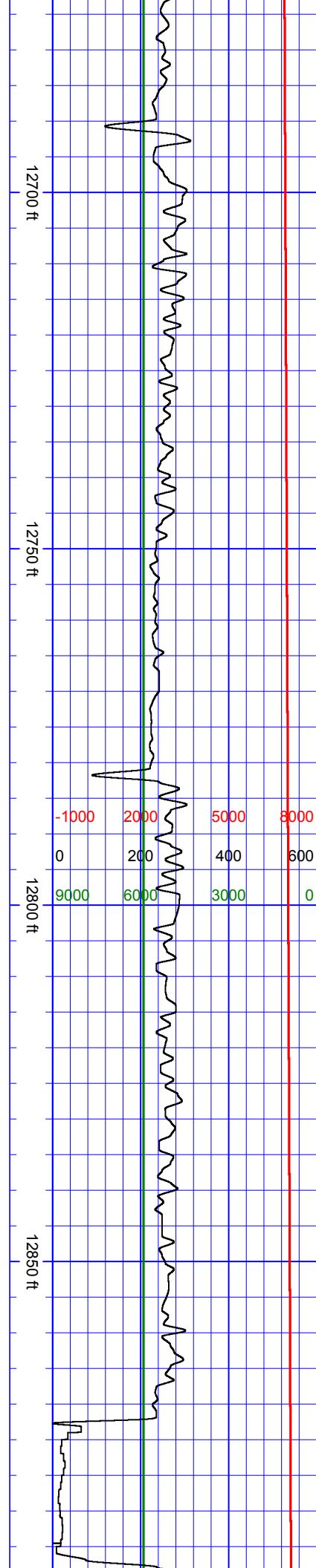
SurveyDepth:12634  
TVD:5890.32 Inc:88.1  
Azi:359.7  
VertSec:6871.99

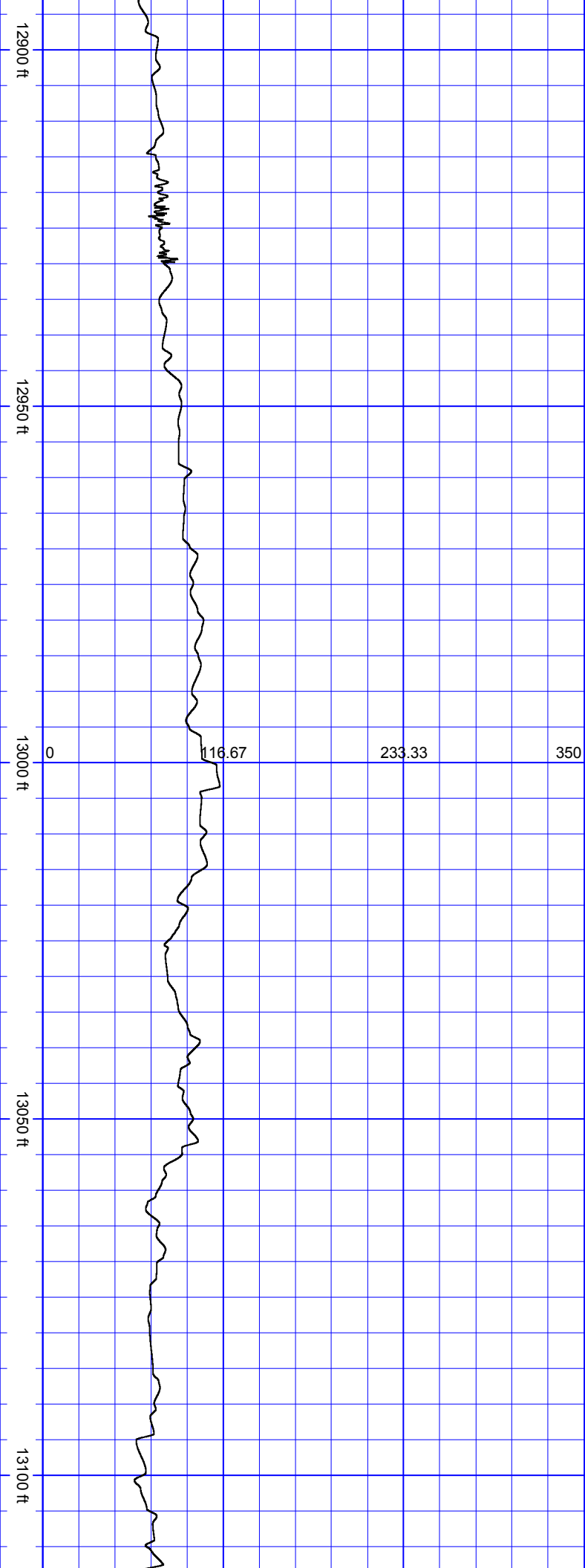




SurveyDepth:12726  
TVD:5893.13 Inc:88.4  
Azi:358.8  
VertSec:6963.95

SurveyDepth:12817  
TVD:5895.44 Inc:88.7  
Azi:357.8  
VertSec:7054.9

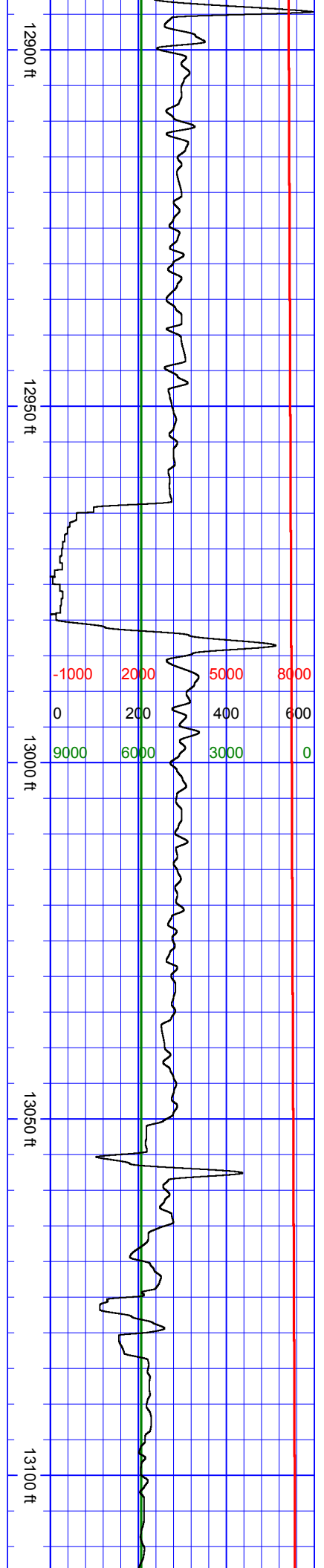


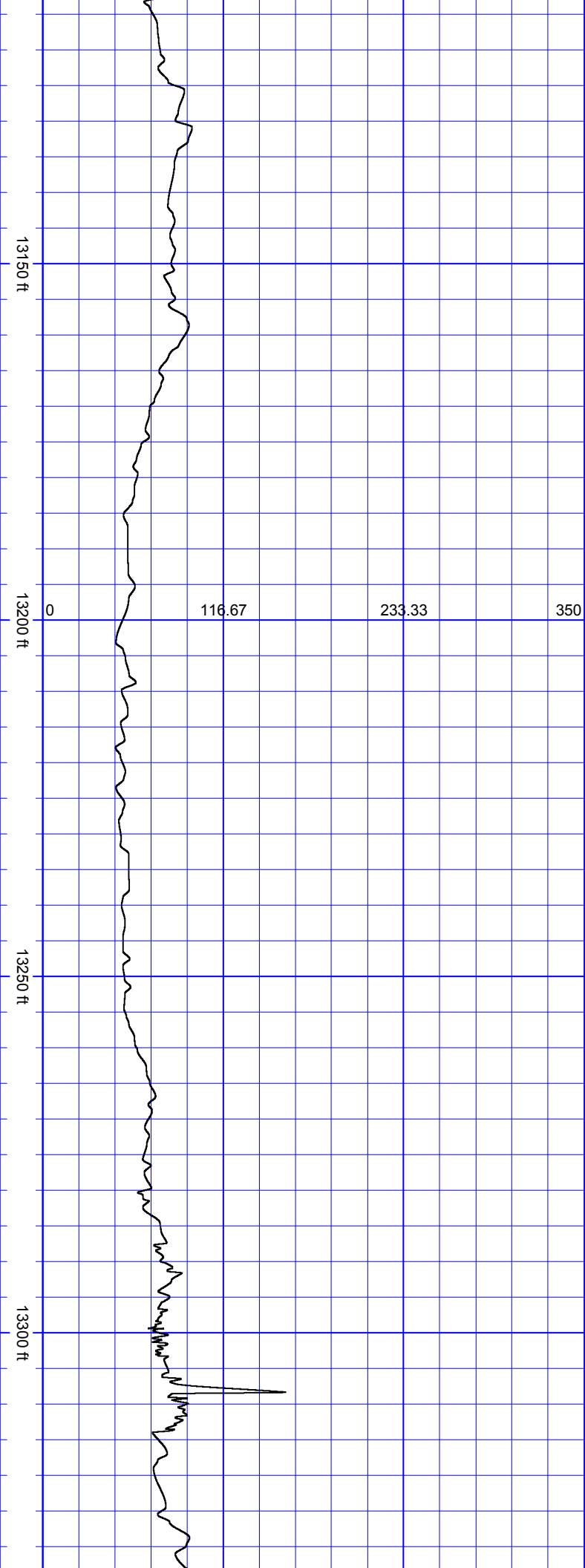


SurveyDepth:12909  
TVD:5896.96 Inc:89.4  
Azi:359 VertSec:7146.87

SurveyDepth:13000  
TVD:5897.92 Inc:89.4  
Azi:1.2 VertSec:7237.85

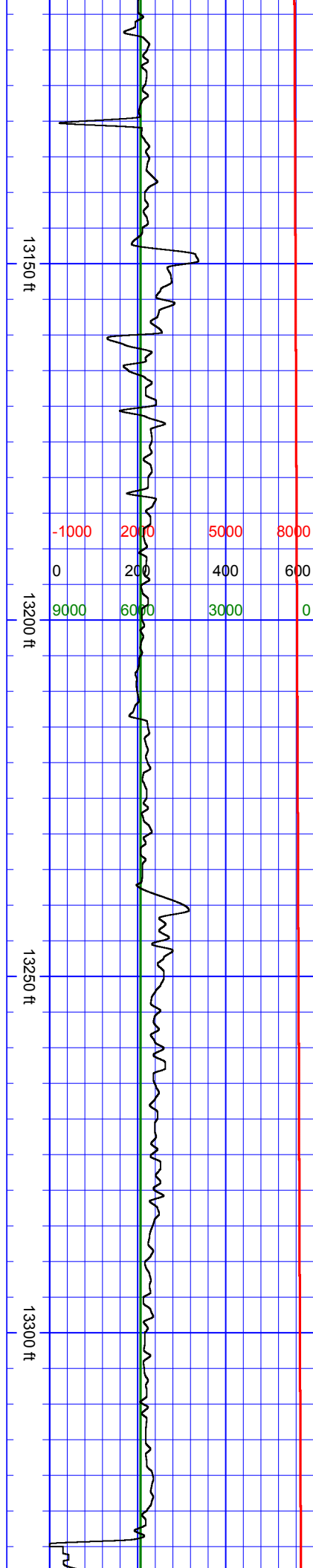
SurveyDepth:13091  
TVD:5898.63 Inc:89.7  
Azi:0.7 VertSec:7328.82

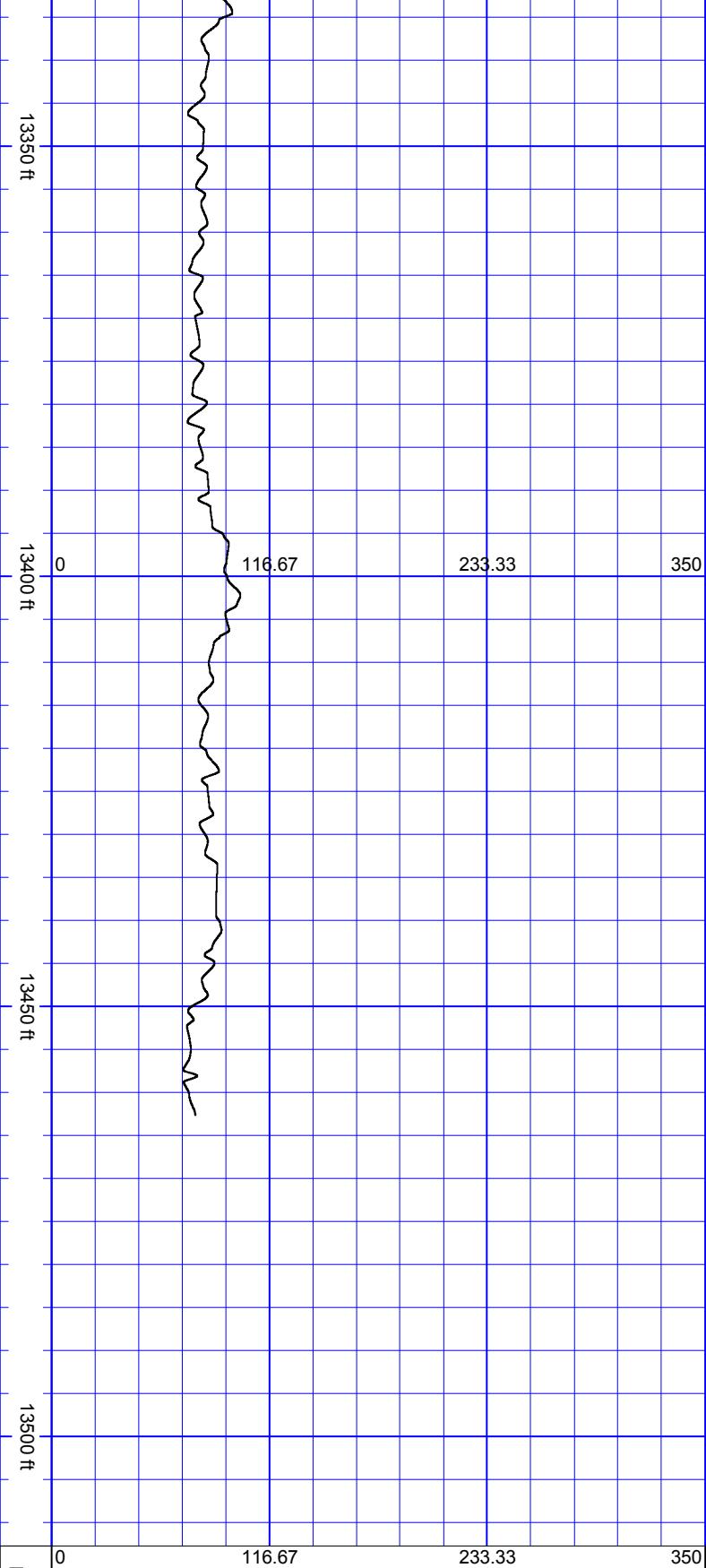




SurveyDepth:13183  
TVD:5898.79 Inc:90.1  
Azi:0.1 VertSec:7420.8

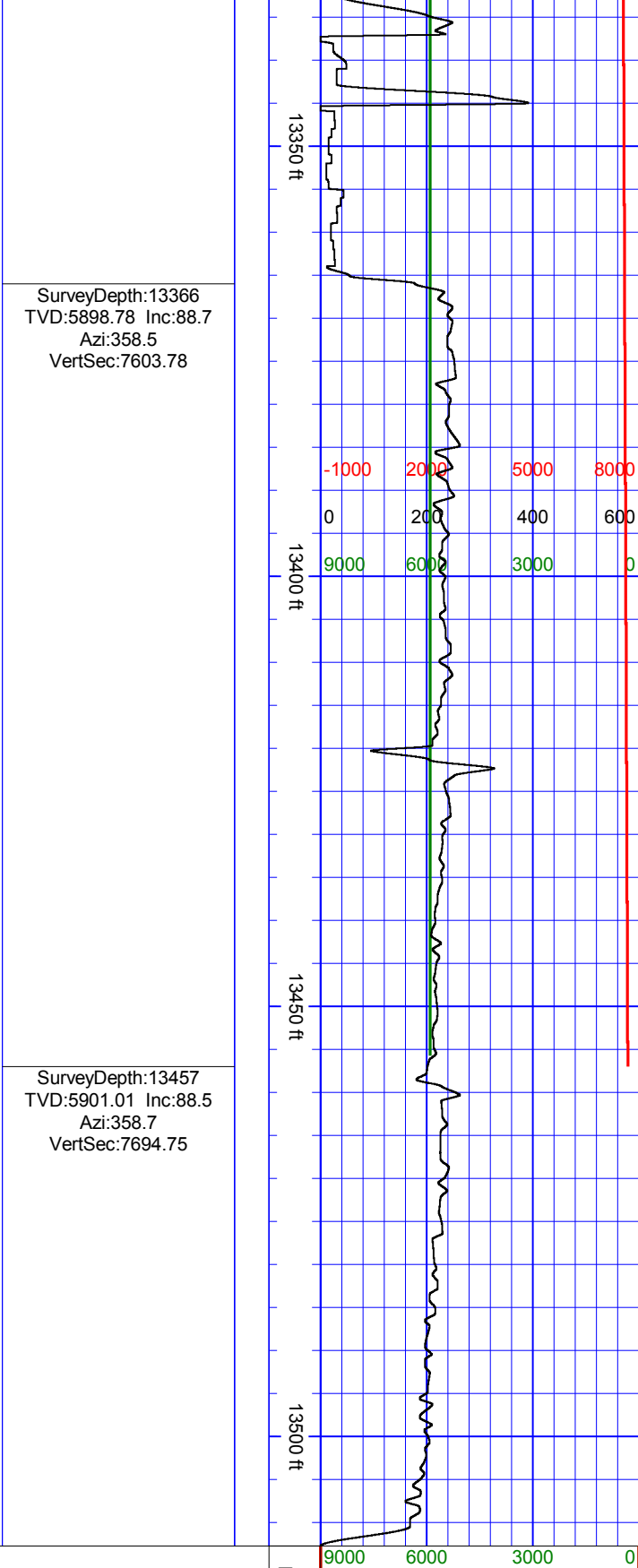
SurveyDepth:13275  
TVD:5898.23 Inc:90.6  
Azi:359 VertSec:7512.8





MD Depth "Scale 5" = 100	Real Time Gamma (AAPL)
13350 ft	
13400 ft	
13450 ft	
13500 ft	

### GAMMA RAY



MD Depth "Scale 5" = 100	TVD Depth (ft)	Drill Rate (min/ft)	Vertical Section (ft)
13350 ft			
13400 ft			
13450 ft			
13500 ft			

### ROP - VERT SEC - TVD



Oil Company: Whiting Petroleum Corp  
Well Name: Razor #21C-0906B  
Surface Location: S21-T10N-R58



Surface Location: 021-F10N-R30

Bit Run:

Log Depth Start: 9000.00 ft    Log Depth End: 13512.79 ft

Data Depth Start: 9000.00 ft    Data Depth End: 13512.79 ft