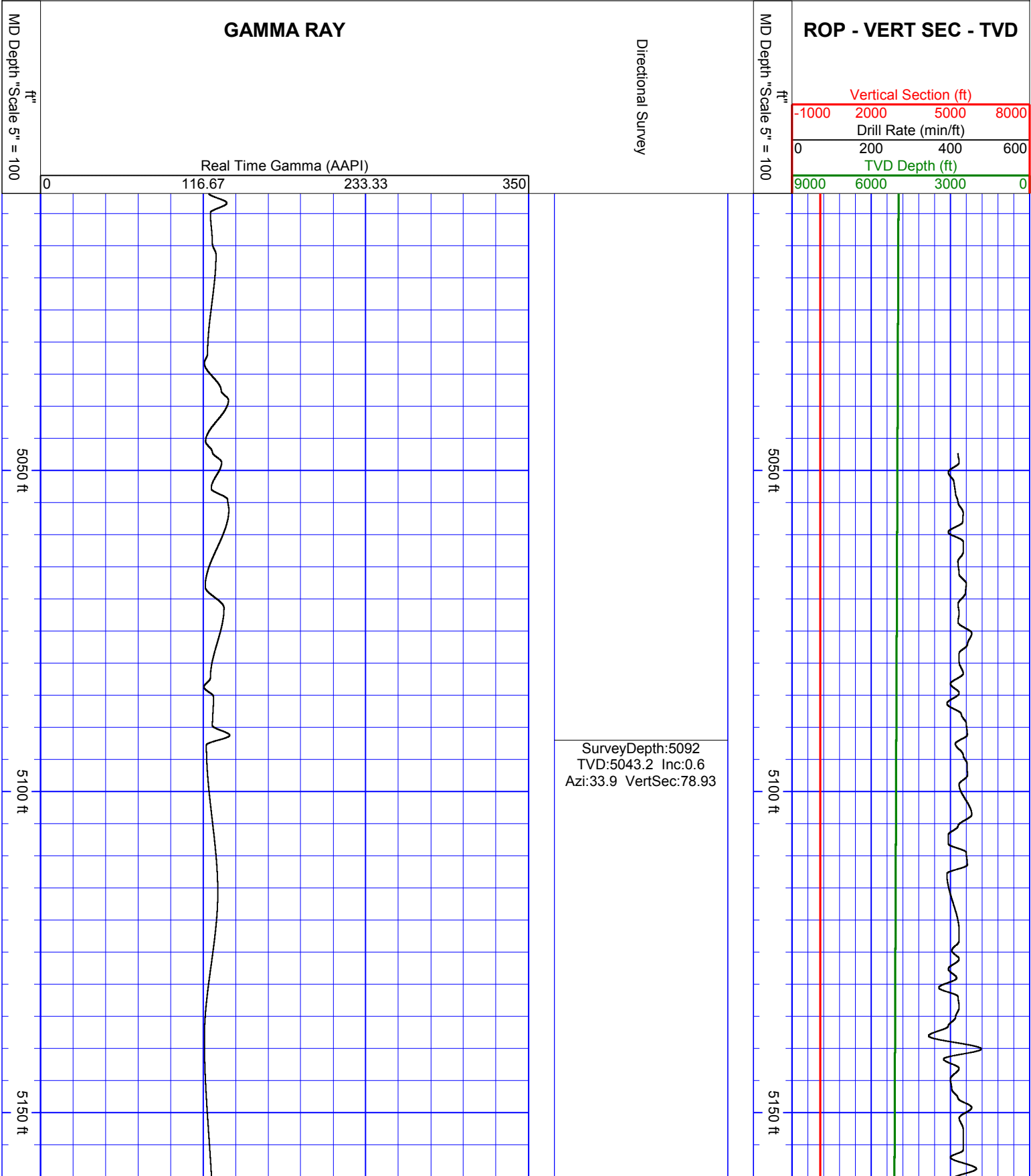
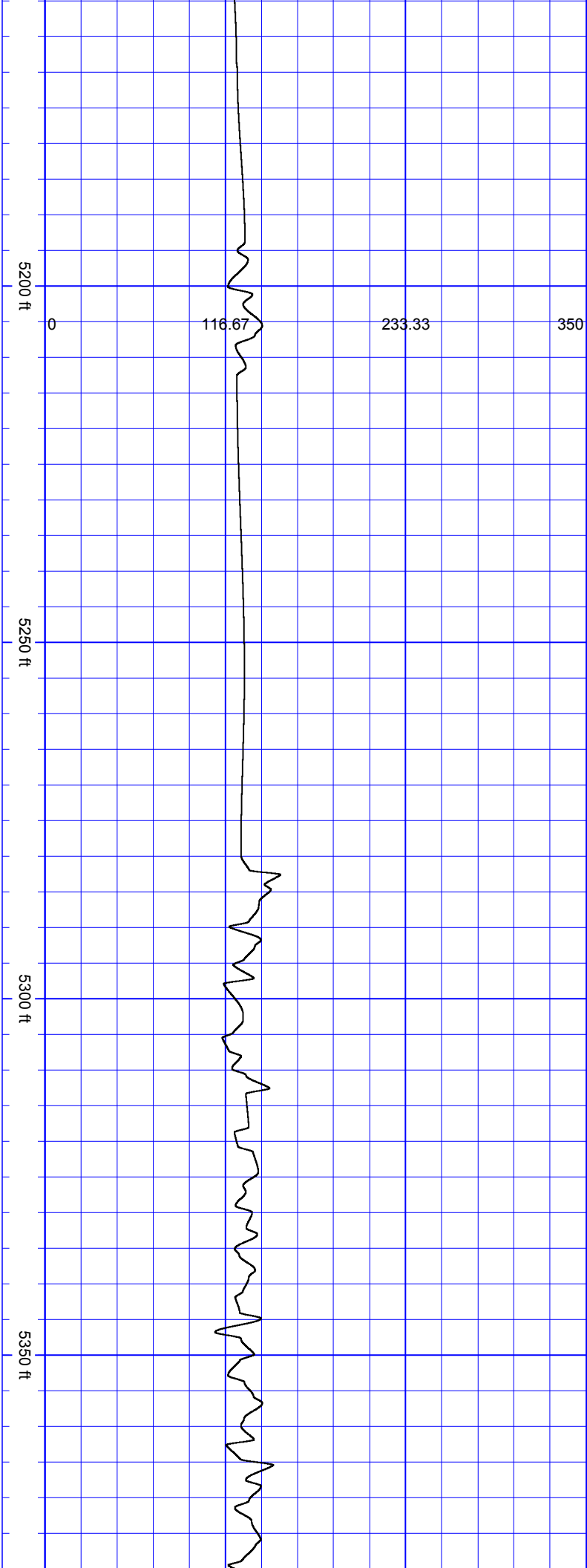




Oil Company: Whiting Petroleum
Well Name: Razor 11G-1409A
Surface Location: S11-T10N-R58MW
Bit Run: 4
Log Depth Start: 5006.83 ft Log Depth End: 13760.20 ft
Data Depth Start: 5006.83 ft Data Depth End: 13760.20 ft

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.

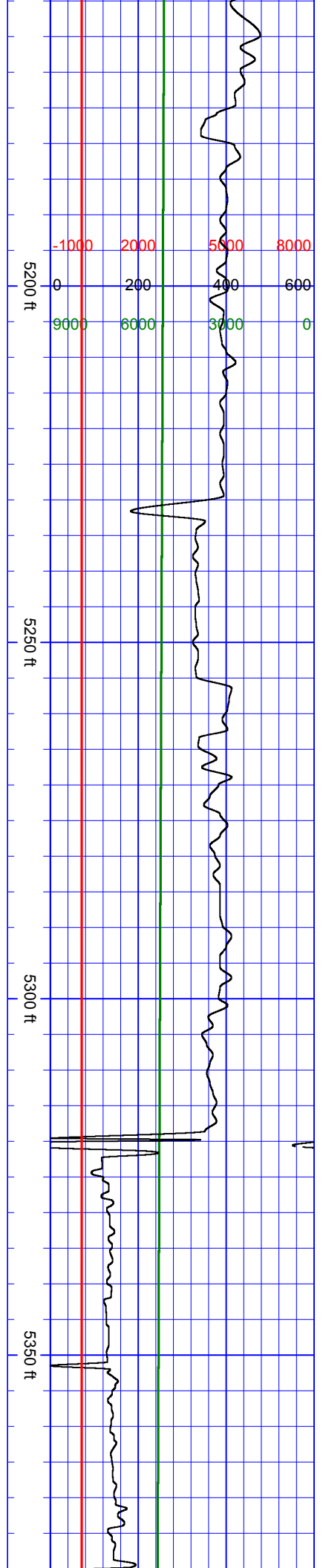


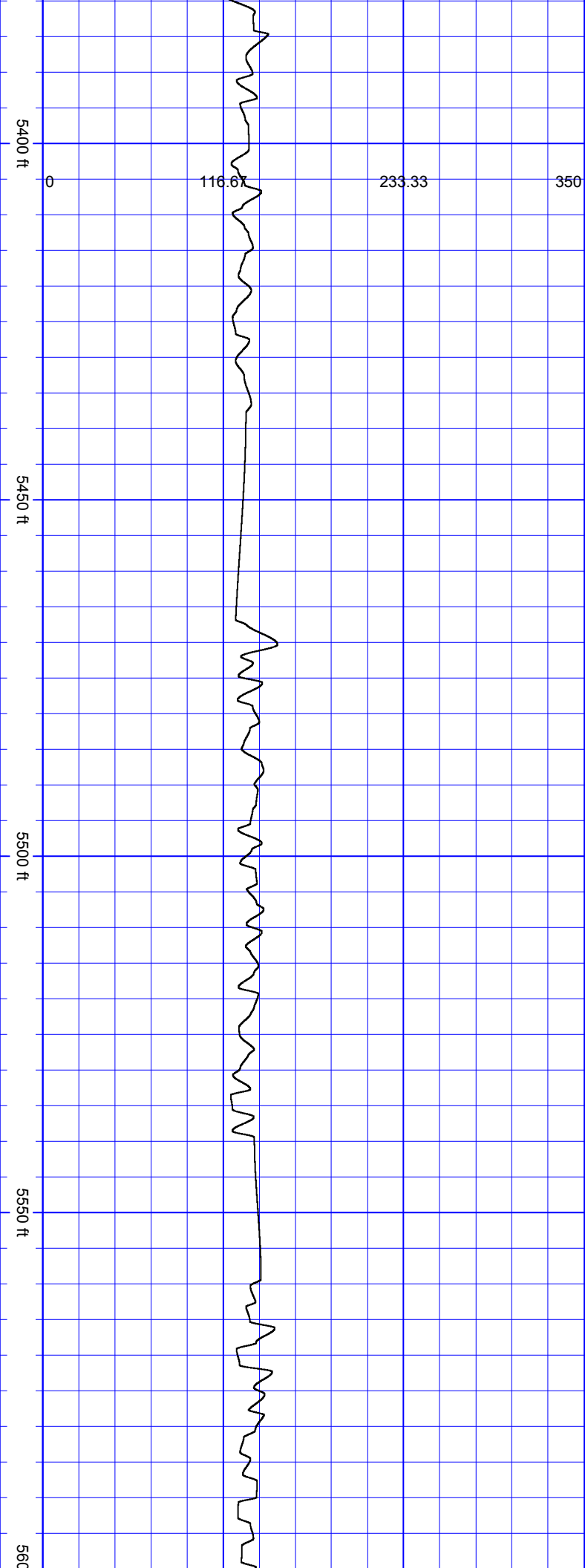


SurveyDepth:5183
TVD:5134.19 Inc:0.6
Azi:80.8 VertSec:78.41

SurveyDepth:5276
TVD:5227.19 Inc:0.7
Azi:99.6 VertSec:78.34

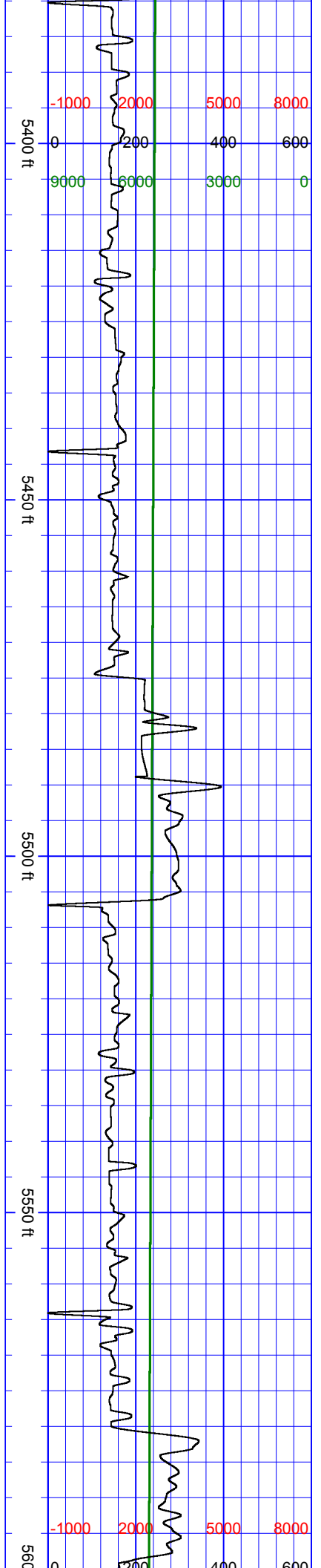
SurveyDepth:5368
TVD:5318.96 Inc:6.9
Azi:185.9 VertSec:83.92

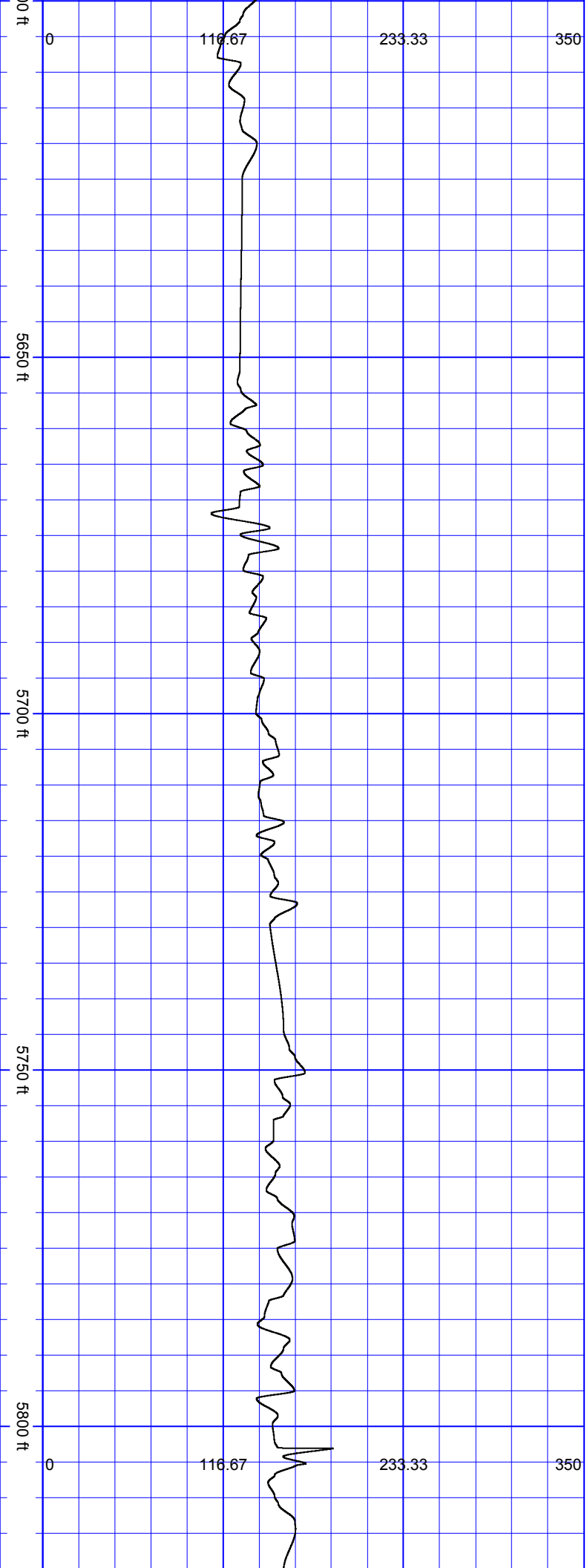




SurveyDepth:5459
TVD:5407.97 Inc:16.5
Azi:189.5 VertSec:102.3

SurveyDepth:5551
TVD:5494.48 Inc:23.1
Azi:185.3 VertSec:133.4



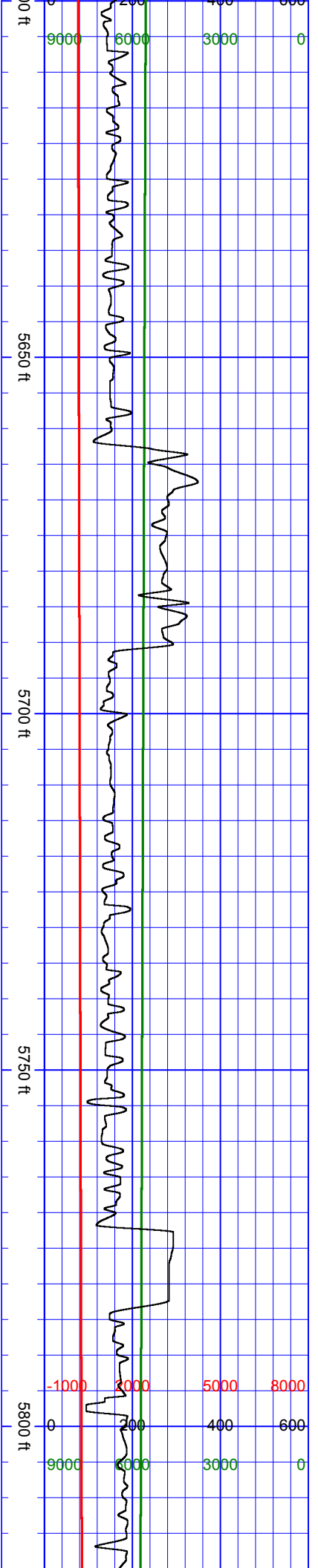


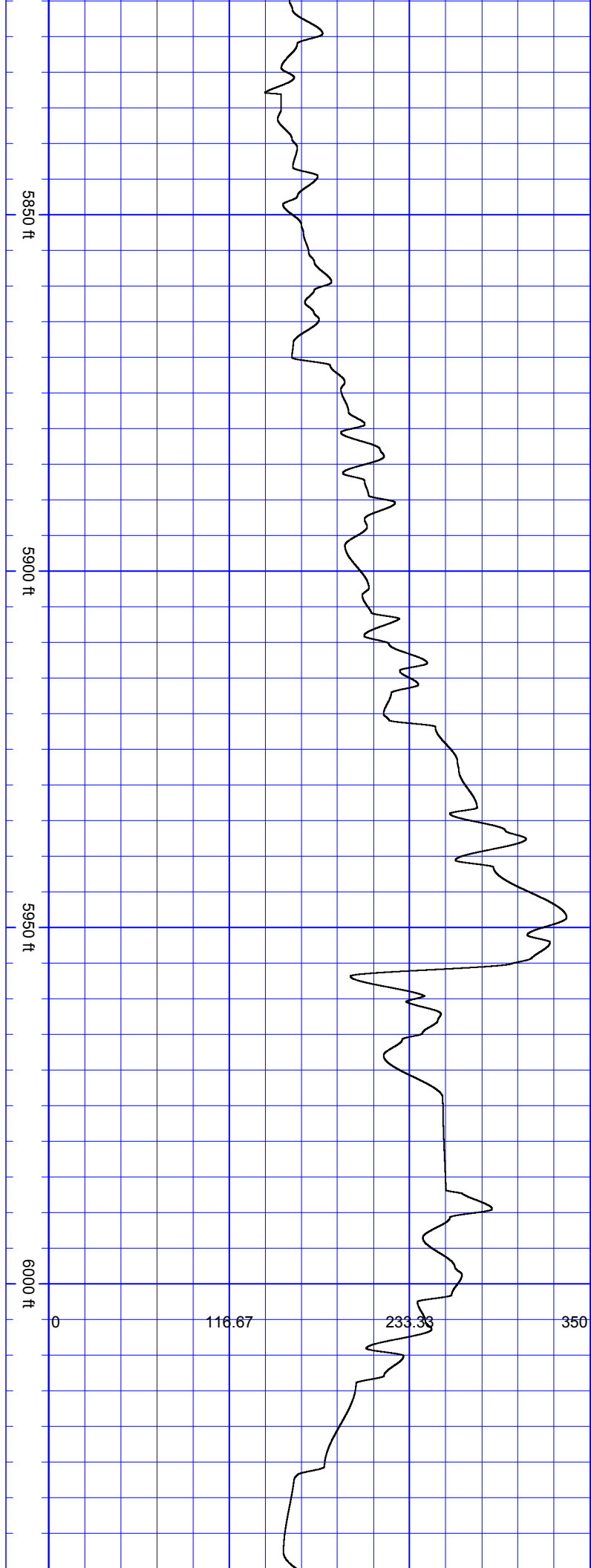
SurveyDepth:5644
TVD:5577.21 Inc:31.1
Azi:185.7
VertSec:175.72

SurveyDepth:5735
TVD:5651.64 Inc:39
Azi:184.9
VertSec:227.93

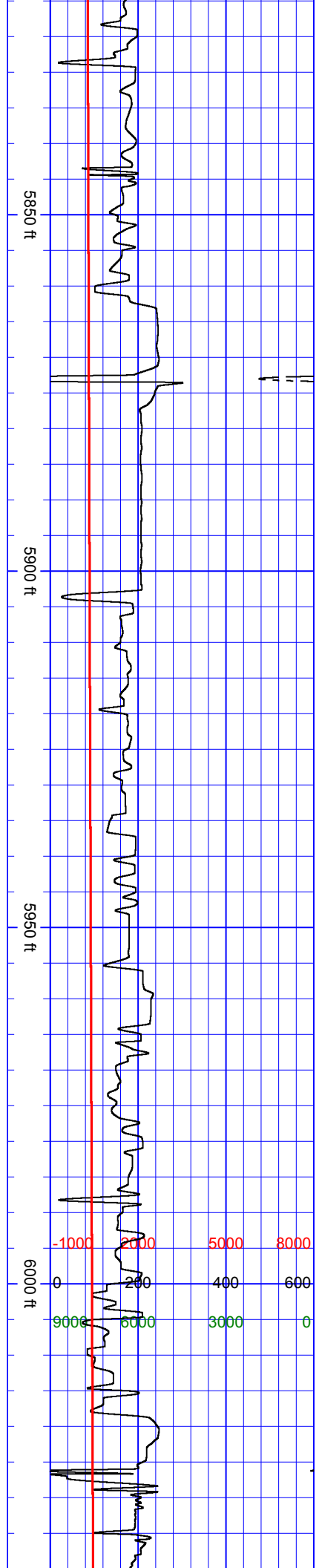
SurveyDepth:5766
TVD:5675.21 Inc:42
Azi:184.2
VertSec:248.06

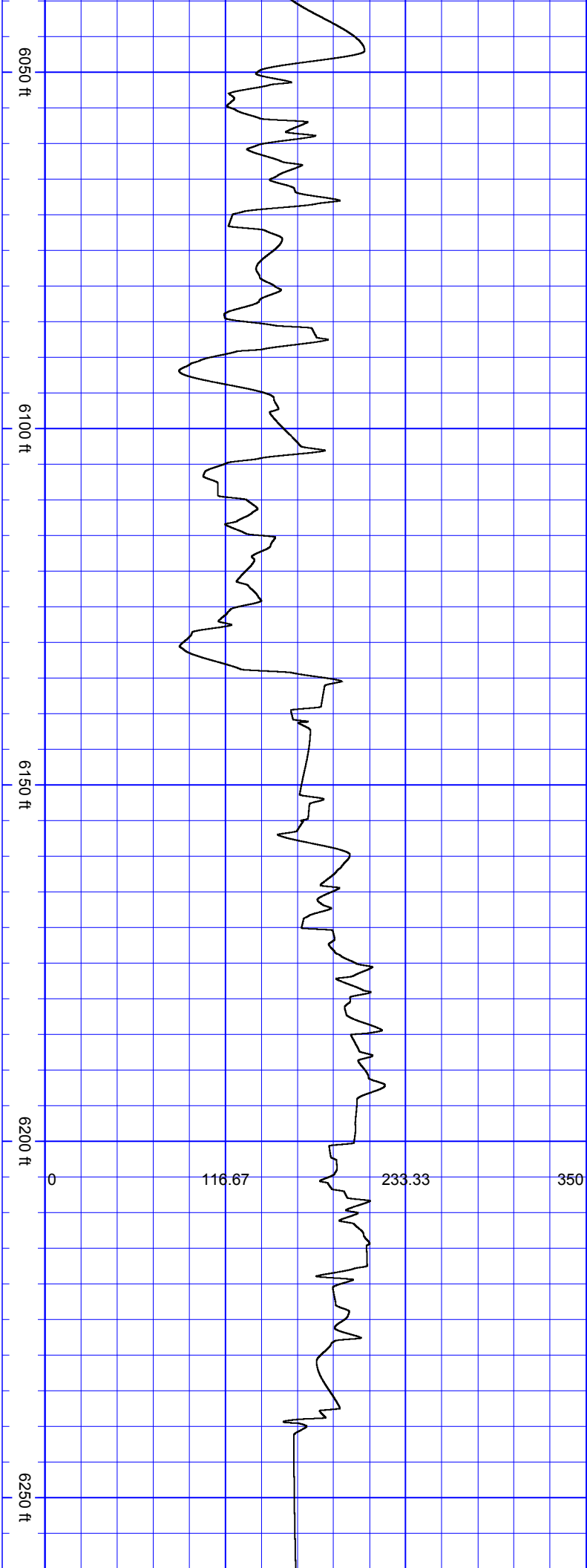
SurveyDepth:5797
TVD:5697.66 Inc:45.2
Azi:181.7
VertSec:269.43





SurveyDepth:5827 TVD:5717.95 Inc:49.7 Azi:179.9 VertSec:291.48
SurveyDepth:5858 TVD:5737.33 Inc:52.9 Azi:179.4 VertSec:315.58
SurveyDepth:5888 TVD:5755.38 Inc:53.1 Azi:179.3 VertSec:339.45
SurveyDepth:5919 TVD:5773.67 Inc:54.6 Azi:179.2 VertSec:364.38
SurveyDepth:5950 TVD:5791.02 Inc:57.3 Azi:178 VertSec:389.93
SurveyDepth:5981 TVD:5806.99 Inc:60.7 Azi:177.9 VertSec:416.33
SurveyDepth:6011 TVD:5820.72 Inc:64.8 Azi:178.8 VertSec:442.84





SurveyDepth:6042
TVD:5833.75 Inc:65.5
Azi:178.8
VertSec:470.84

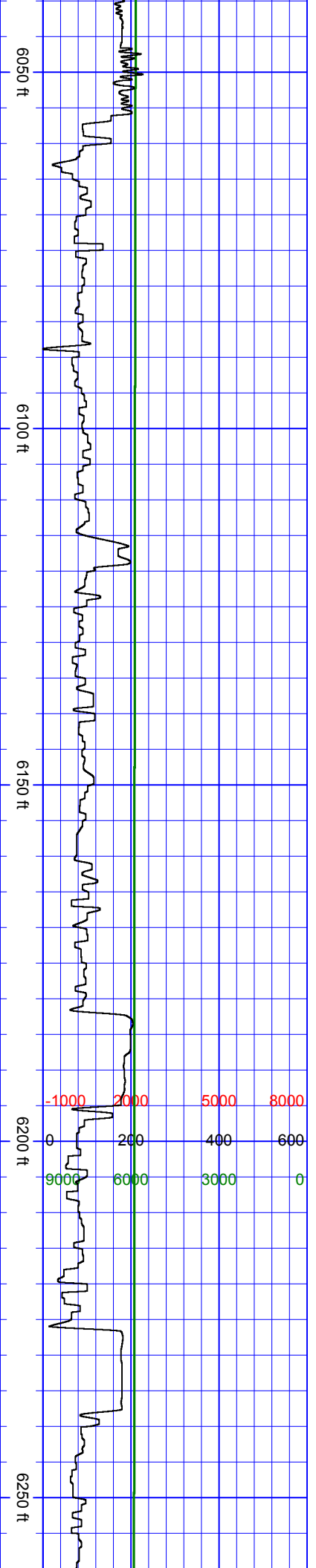
SurveyDepth:6073
TVD:5846.28 Inc:66.8
Azi:179.6
VertSec:499.07

SurveyDepth:6104
TVD:5857.67 Inc:70.1
Azi:181.2
VertSec:527.83

SurveyDepth:6148
TVD:5870.56 Inc:75.8
Azi:182.5
VertSec:569.84

SurveyDepth:6191
TVD:5879.5 Inc:80.2
Azi:183.9
VertSec:611.88

SurveyDepth:6236
TVD:5885.57 Inc:84.3
Azi:183.6
VertSec:656.45



6300 ft

6350 ft

6400 ft

0 116.67 233.33 350

6450 ft

SurveyDepth:6336
TVD:5892.46 Inc:87.8
Azi:182.3
VertSec:756.17

SurveyDepth:6424
TVD:5894.53 Inc:89.5
Azi:181.9
VertSec:844.07

6300 ft

6350 ft

6400 ft

6450 ft

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