



Build & Lateral

Job #:

185242

Well ID:

16190871

Scale:

5" = 100 ft

Type:

MD

Well Site Information

Oil CompanyCrestone Peak Resources

Surface LocationS25-T1N-R66W

Well NameSam 3C-25H-M166

API05-123-46124- 00

FieldDJ Basin

StateColorado

CountryUSA

Surface Coordinates

Well TypeHorizontal

Latitude40° 1' 8 N

Longitude140° 44' 2 W

N / S Coordinates1,250,636.71 usft

E / W Coordinates3,214576.87 usft

Azimuth ReferenceTrue North

Grid Convergence0.51°

MWD Engineers

Lead HandRon Kenyon

Second HandJamie Chestnut

Perm DatumGroundElevation5,086.00 ft

Log depth measured from KB is23.00 ftabove perm datum.KB = 5,109.00 ft

Total Depth11,835.00 ftSpud DateAug/17/2018End DateAug/19/2018

(MD) Log IntervalStart Depth2,390.82 ftEnd Depth11,835.09 ft

Bore Hole Record

Hole SizeFromTo

13.50 in0.00 ft2,449.00 ft

8.50 in2,449.00 ft11,835.00 ft

Casing Record

TypeSizeWGTFromTo

LT&C9.63 in40 lbs/ft0.00 ft2,449.00 ft

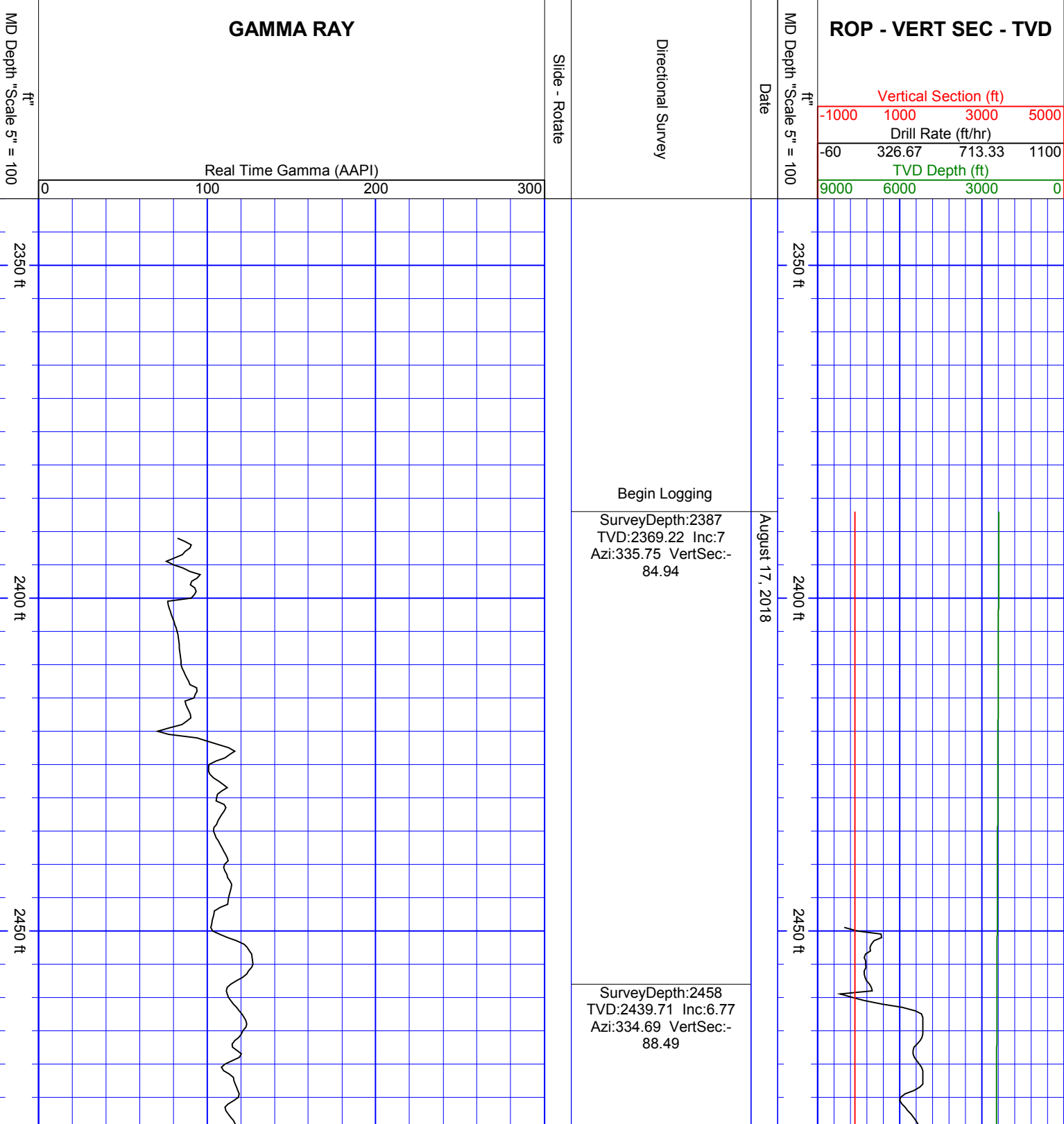
DWC/C-IS5.50 in20 lbs/ft0.00 ft11,835.00 ft

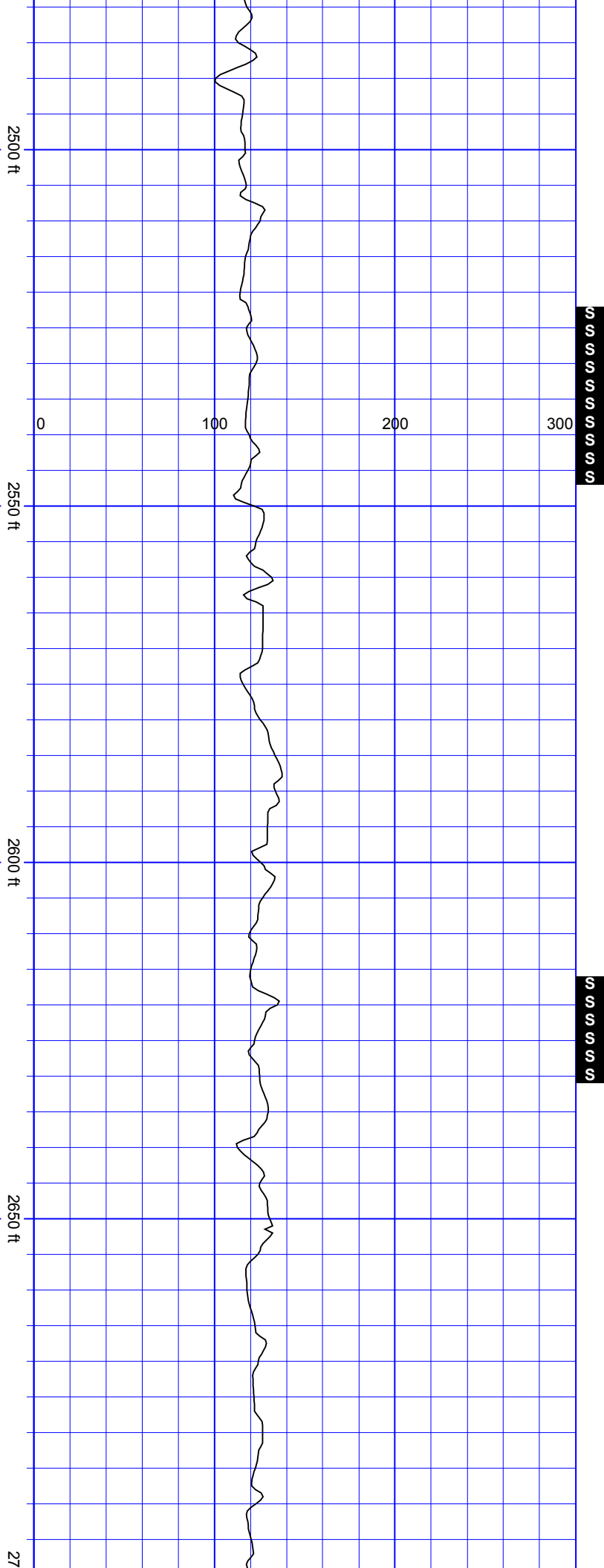
Run Data

Bit Run Number	1	2			
Start Date & Time	Aug/17/2018 02:00:00	Aug/19/2018 00:30:00			
End Date & Time	Aug/18/2018 22:00:00	Aug/19/2018 22:00:00			
Run Hours	44.00	21.50			
Depth In	2,449.00 ft	10,763.00 ft			
Depth Out	10,763.00 ft	11,835.00 ft			
Total Gamma Correction	5.13	5.13			
Gamma to Bit	58.62 ft	55.16 ft			
Resistivity to Bit	N/A	N/A			
Mud Type	Oil Base	Oil Base			
Density	9.60 ppg	9.85 ppg			
Viscosity	53.00 sec/qt	50.00 sec/qt			
PH	N/A	N/A			
Fluid Loss	N/A	N/A			
K+ ppm	N/A	N/A			
CL- ppm	32,500.00 mg/L	34,000.00 mg/L			
Max Mud Temp	239.00 °F	232.25 °F			
Mud Report Depth	9,800.00 ft	10,763.00 ft			

Remarks

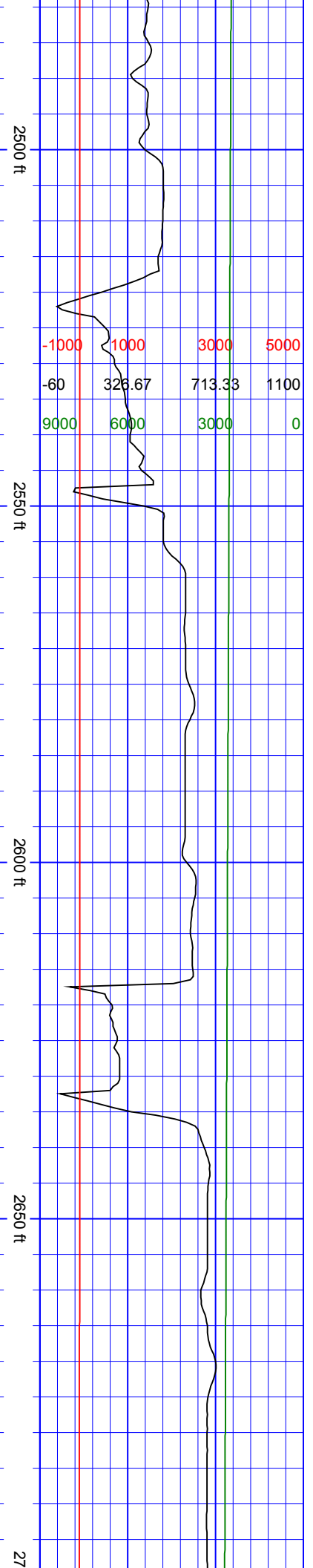
Interpretations of this data by Cathedral Energy Services will be of best judgment as to correctness. Cathedral Energy Services cannot and does not guarantee the accuracy or correctness of interpretations or any surveys derived therefrom. Cathedral Energy Services makes no warranties of performance,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

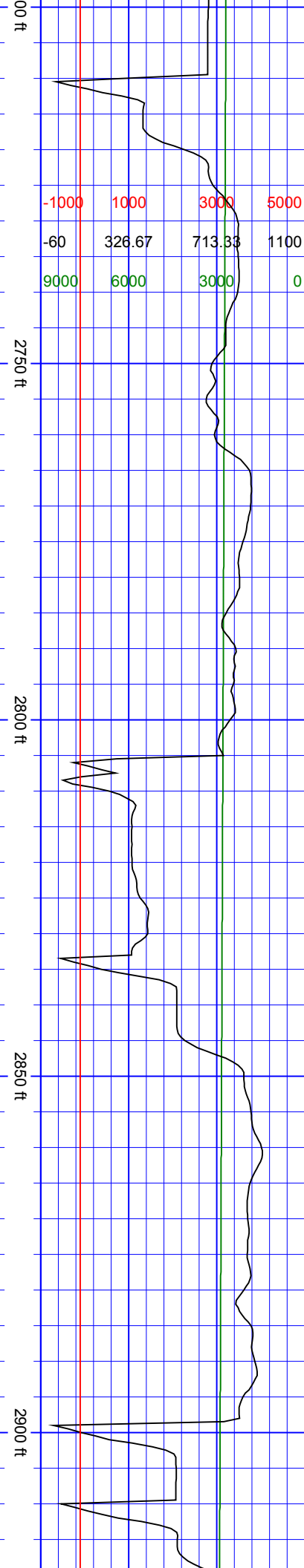




SurveyDepth:2552
TVD:2532.85 Inc:8.97
Azi:4.23 VertSec:-90.3

SurveyDepth:2646
TVD:2625.67 Inc:9.36
Azi:348.41 VertSec:-
91.28

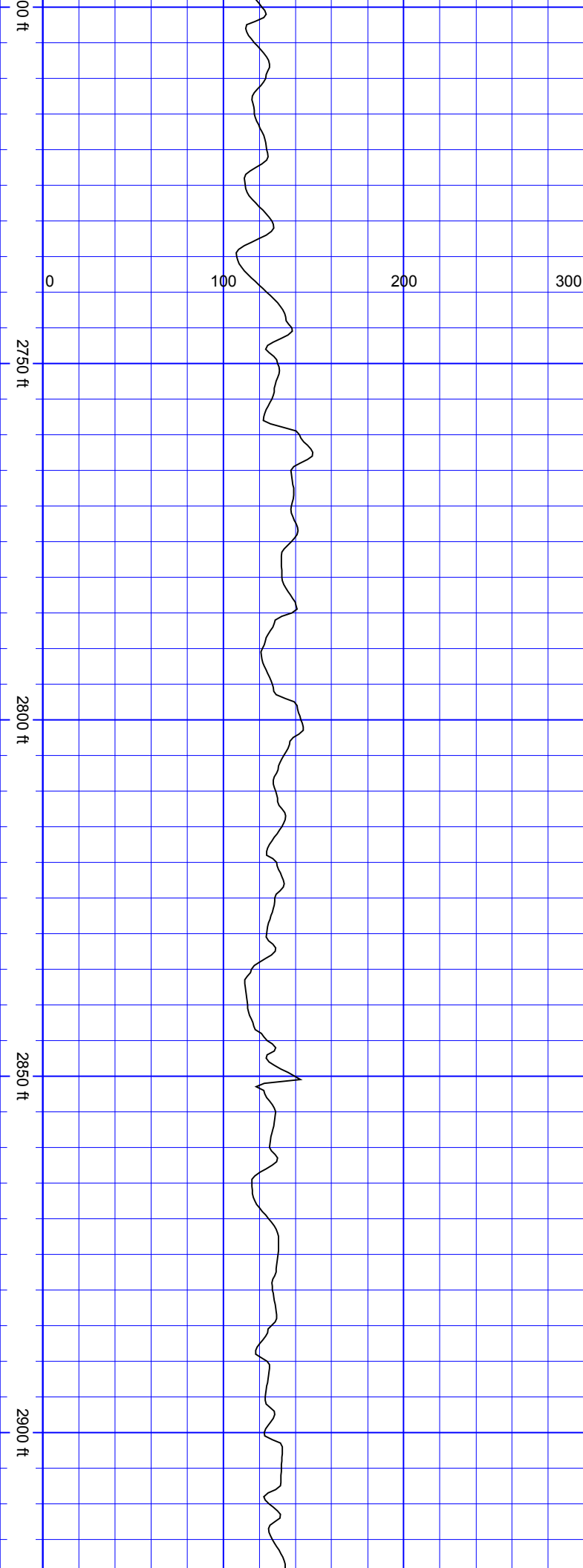


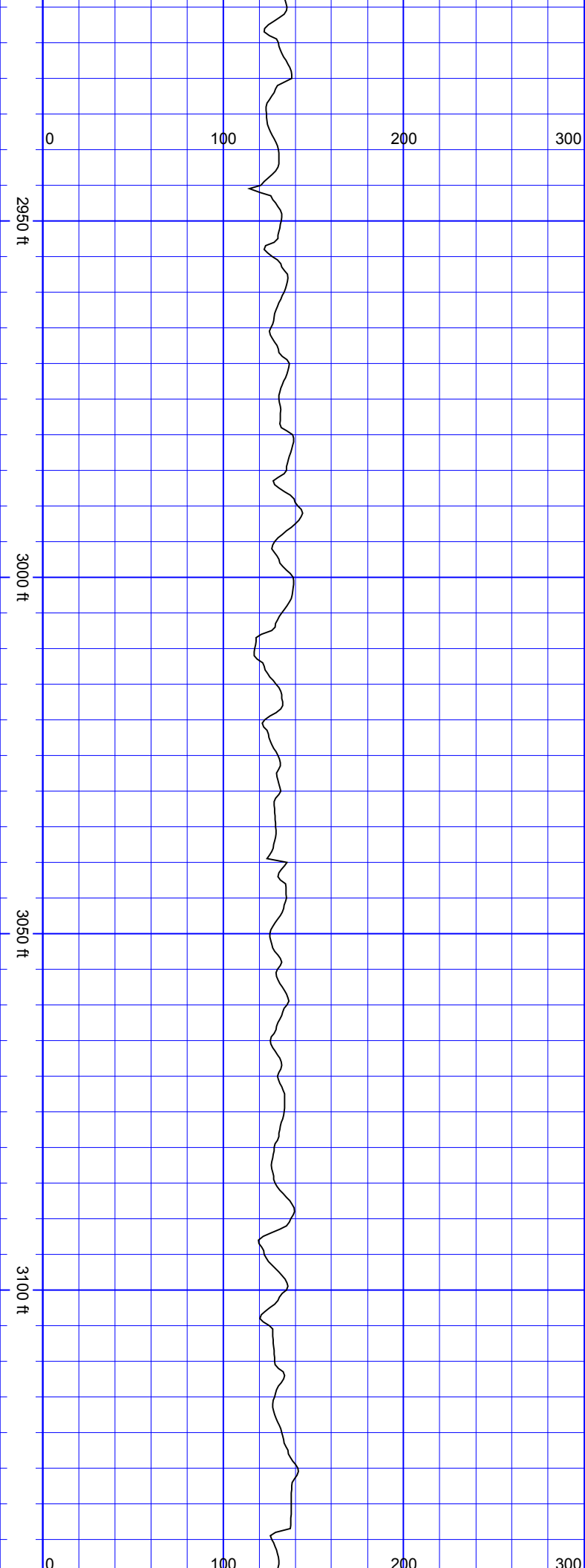


SurveyDepth:2741
TVD:2719.55 Inc:8.26
Azi:346.12 VertSec:-94.44

SurveyDepth:2846
TVD:2823 Inc:11.34
Azi:346.65 VertSec:-98.61

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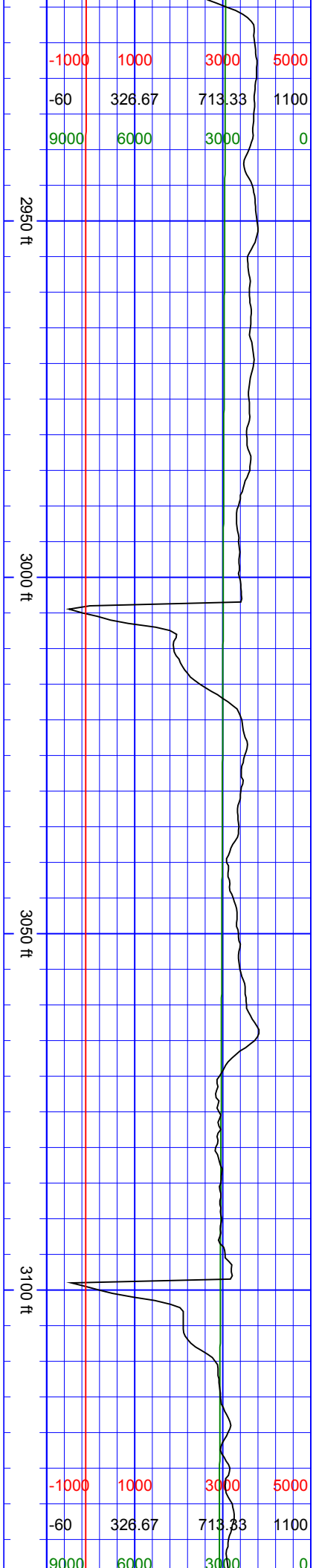


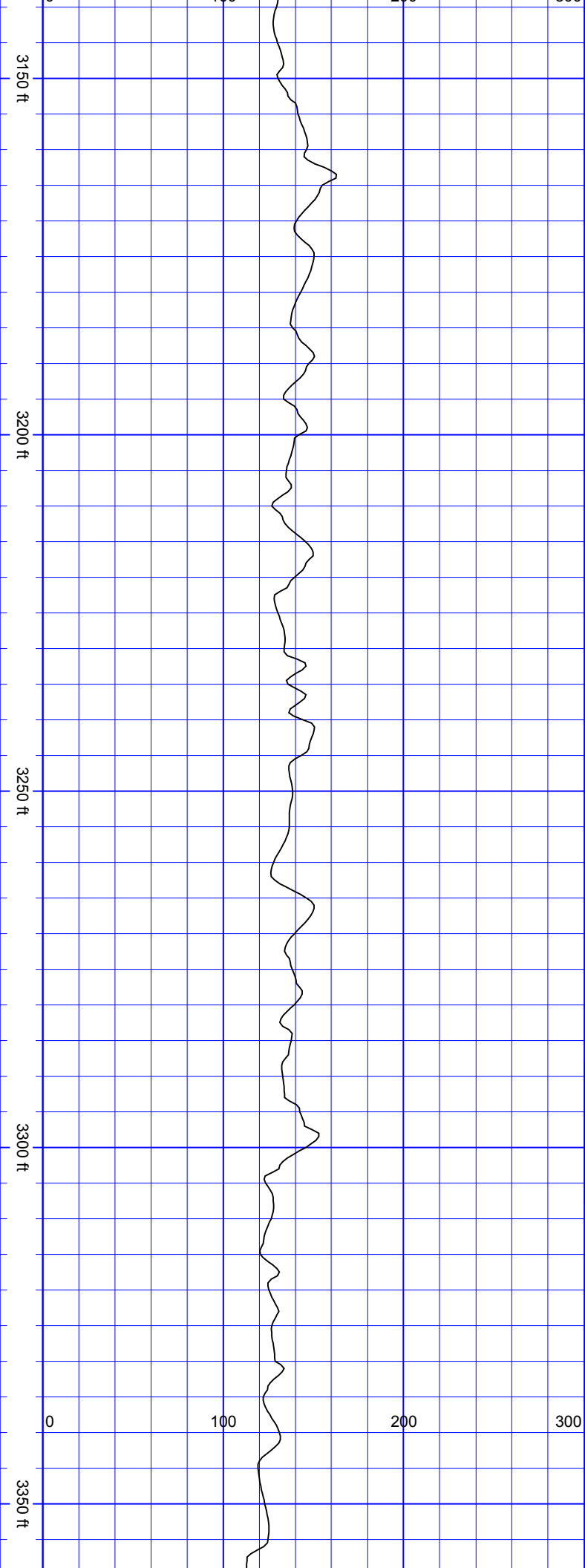


SurveyDepth:2941
TVD:2916.32 Inc:10.24
Azi:345.59 VertSec:-
102.84

SurveyDepth:3035
TVD:3009 Inc:8.97
Azi:344.54 VertSec:-
106.85

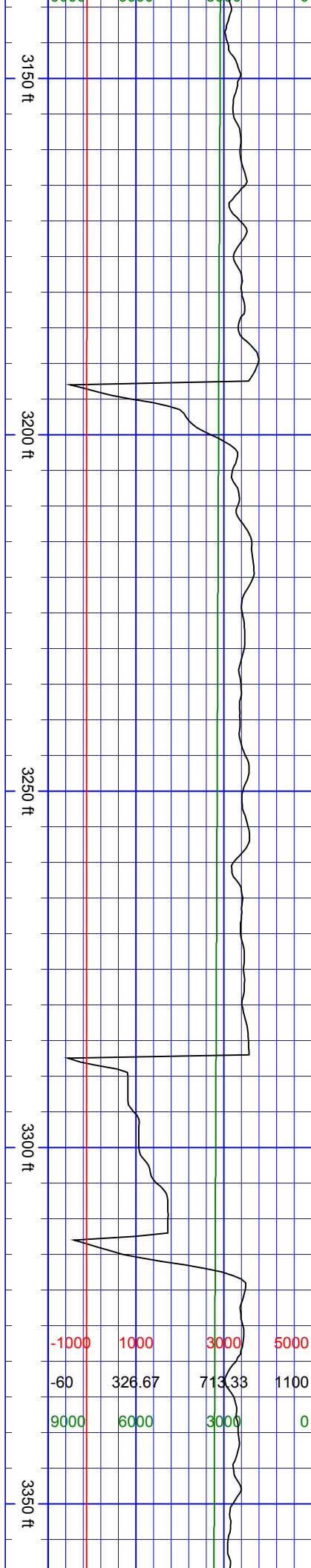
SurveyDepth:3130
TVD:3102.99 Inc:7.78
Azi:340.93 VertSec:-
110.9

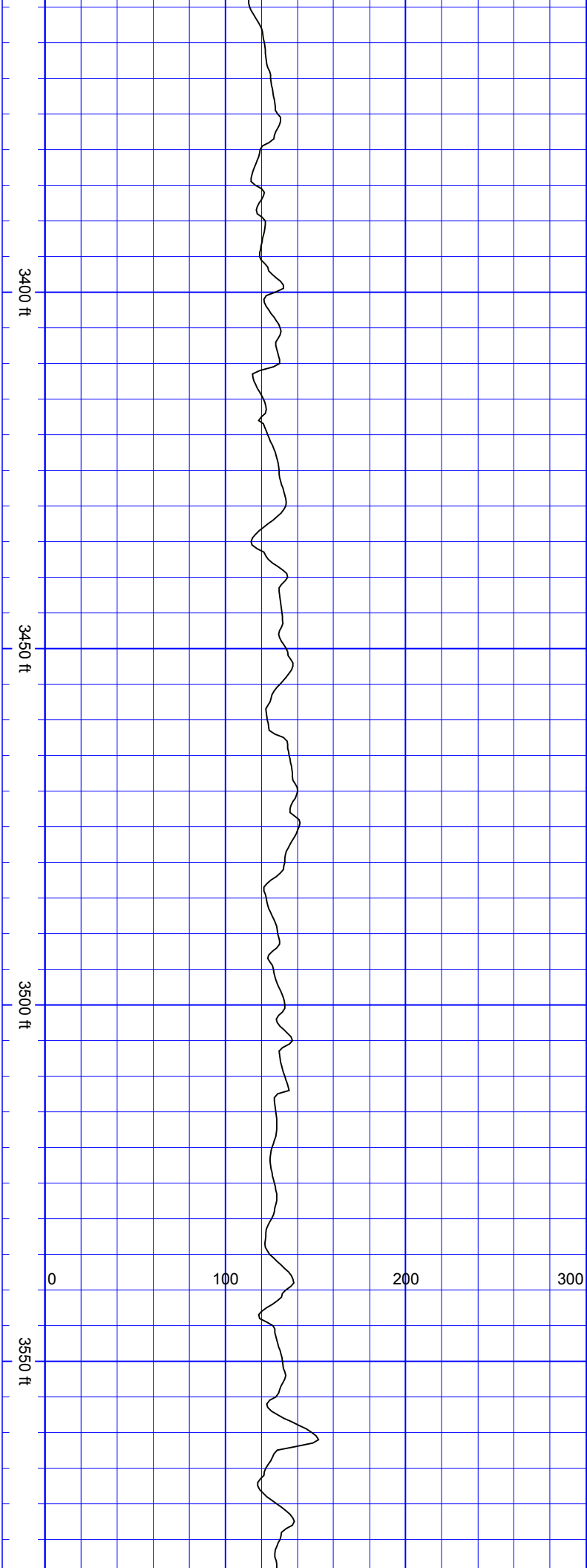




SurveyDepth:3224
TVD:3196.24 Inc:6.72
Azi:335.92 VertSec:-115.21

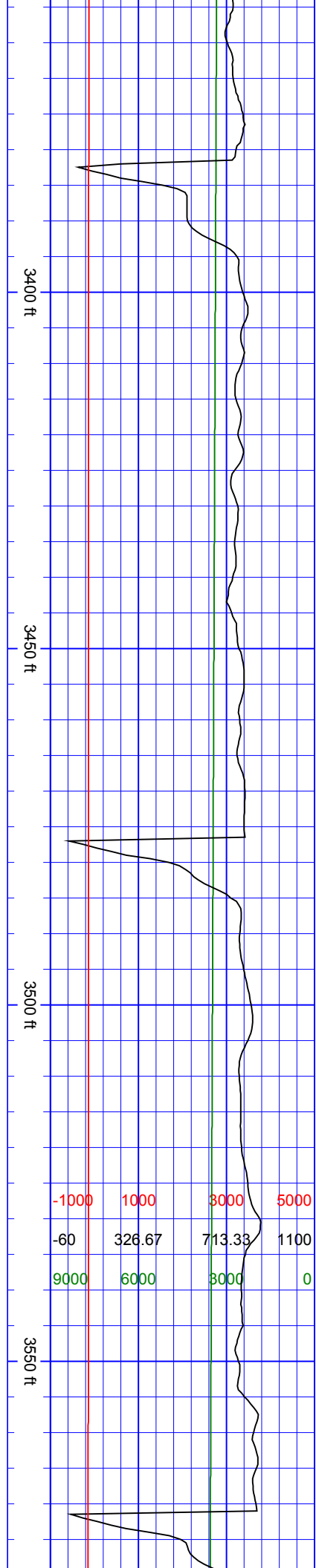
SurveyDepth:3319
TVD:3290.3 Inc:9.27
Azi:337.16 VertSec:-120.43

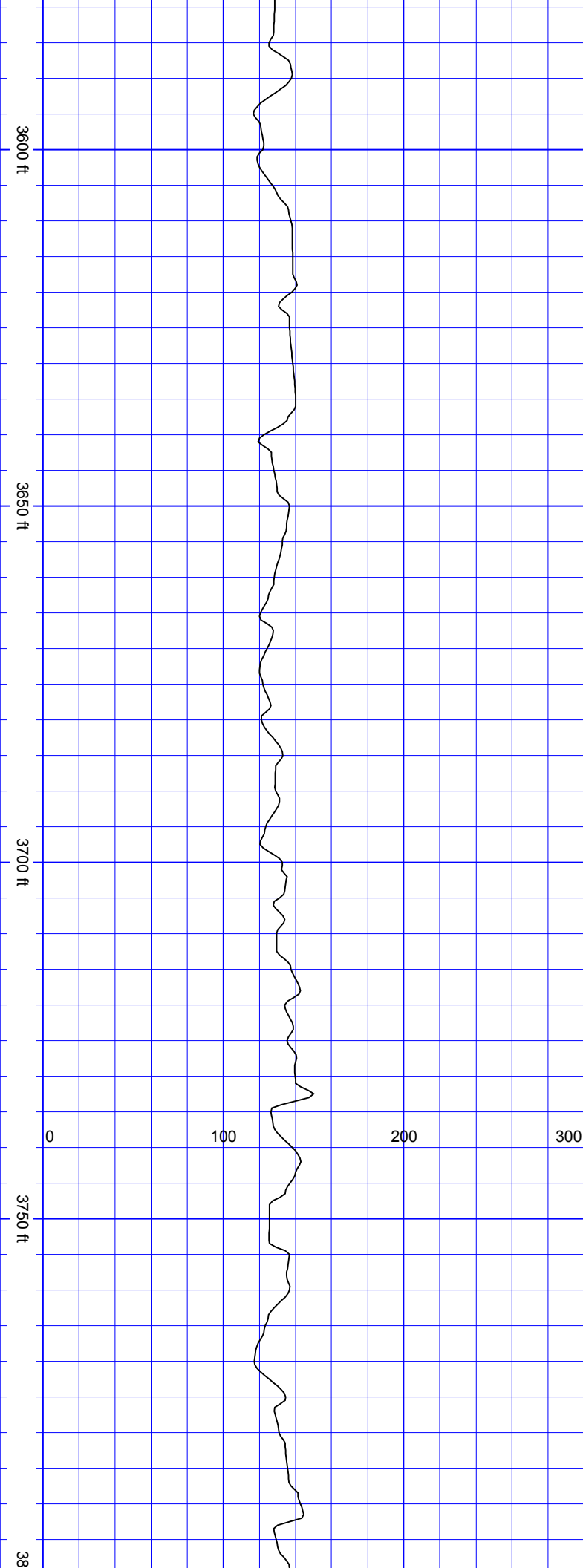




SurveyDepth:3413
TVD:3383.16 Inc:8.66
Azi:335.92 VertSec:-
126.23

SurveyDepth:3509
TVD:3478.16 Inc:7.82
Azi:334.34 VertSec:-
131.99

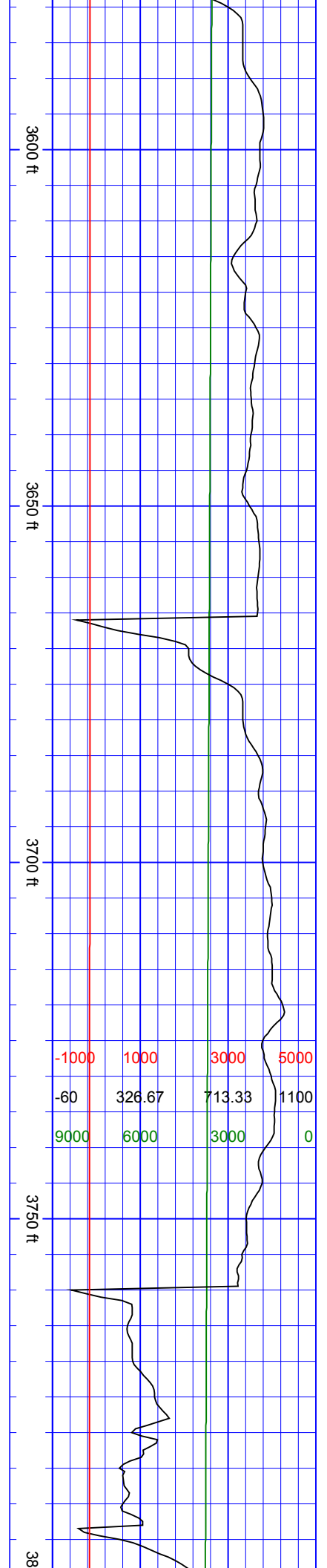


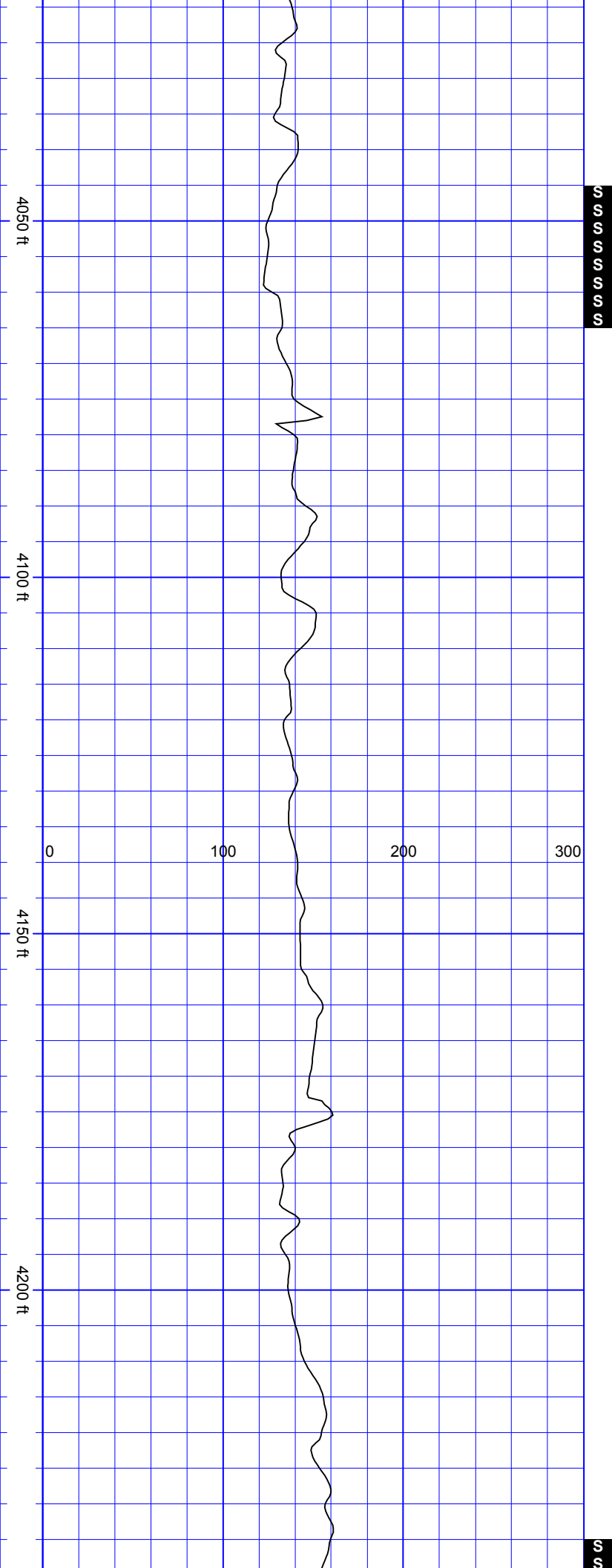


SurveyDepth:3604
TVD:3572.31 Inc:7.6
Azi:329.07 VertSec:-138

SurveyDepth:3698
TVD:3665.59 Inc:6.59
Azi:317.12 VertSec:-144.85

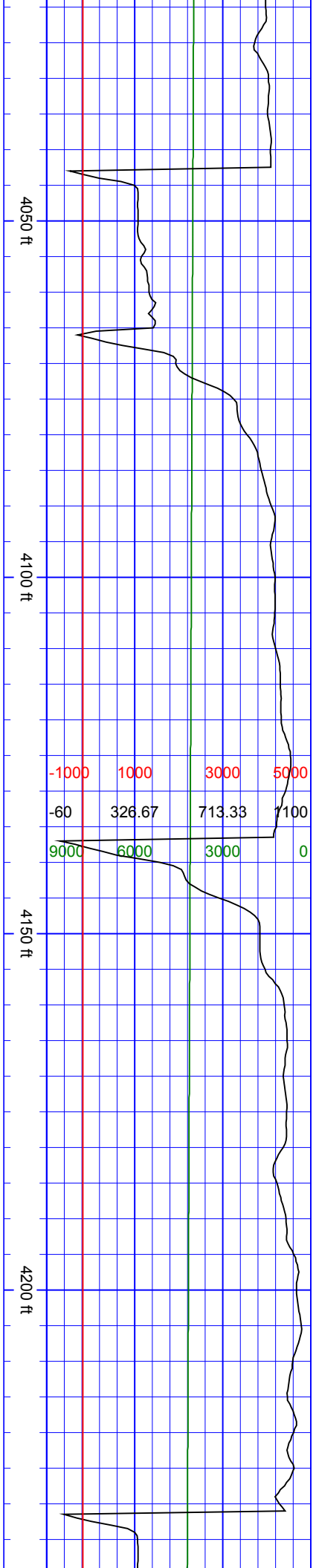
SurveyDepth:3792
TVD:3758.86 Inc:7.69
Azi:322.39 VertSec:-

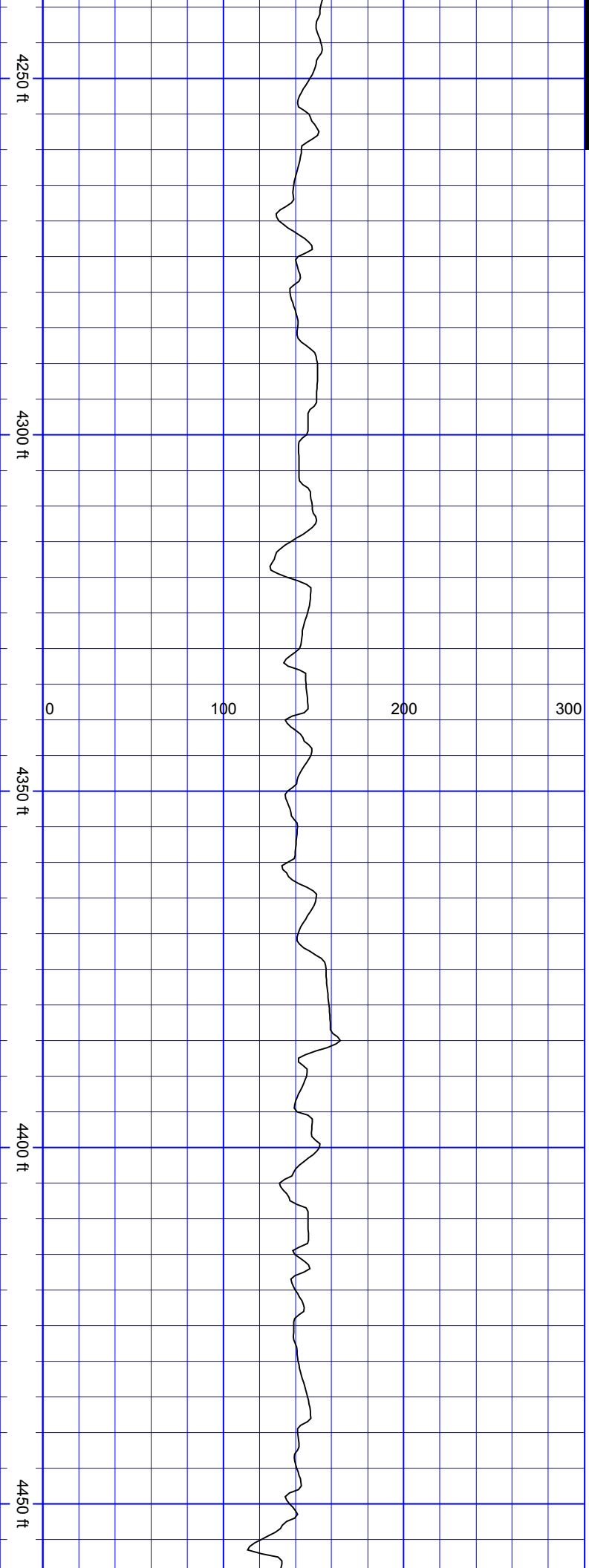




SurveyDepth:4076
TVD:4039.48 Inc:10.72
Azi:346.38 VertSec:-
170.1

SurveyDepth:4171
TVD:4133.17 Inc:8.35
Azi:342.08 VertSec:-
174.28



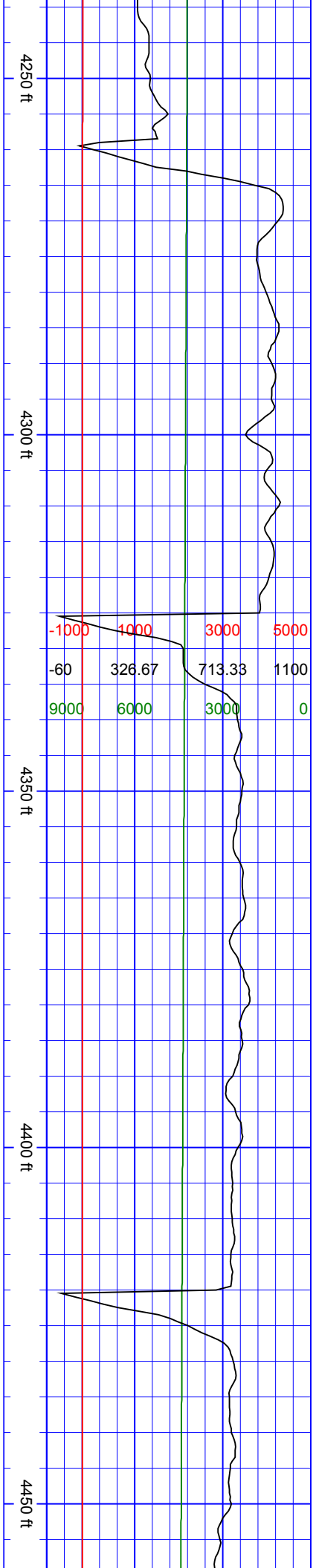


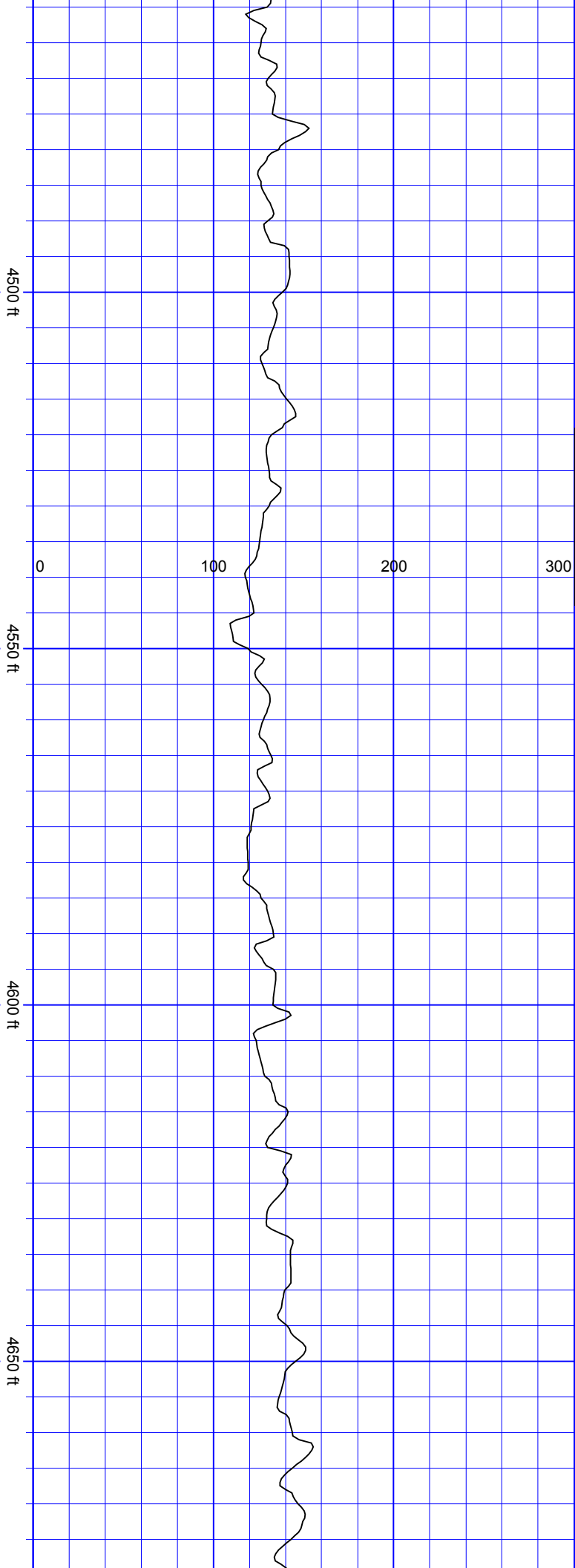
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SurveyDepth:4265
TVD:4225.93 Inc:10.2
Azi:342.87 VertSec:-
178.8

SurveyDepth:4360
TVD:4319.65 Inc:8.66
Azi:340.41 VertSec:-
183.66

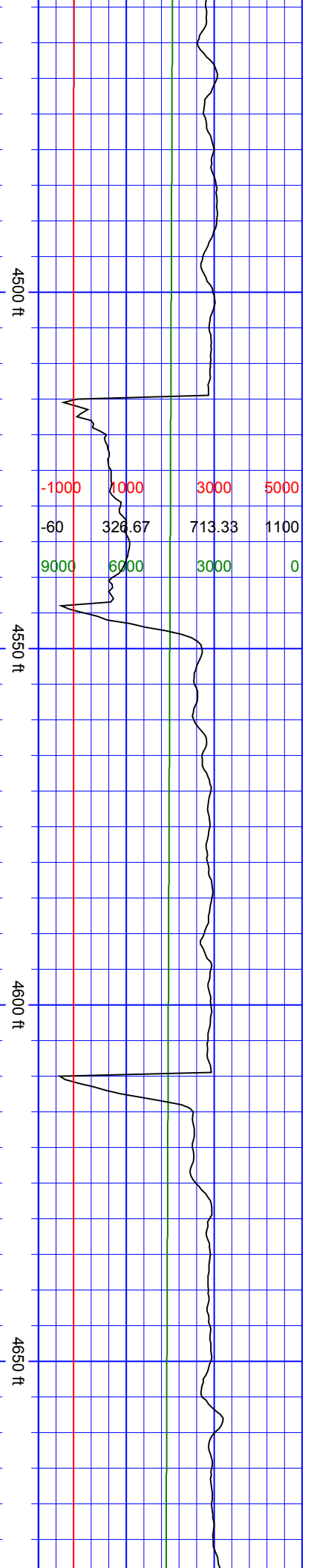
SurveyDepth:4455
TVD:4413.74 Inc:7.16

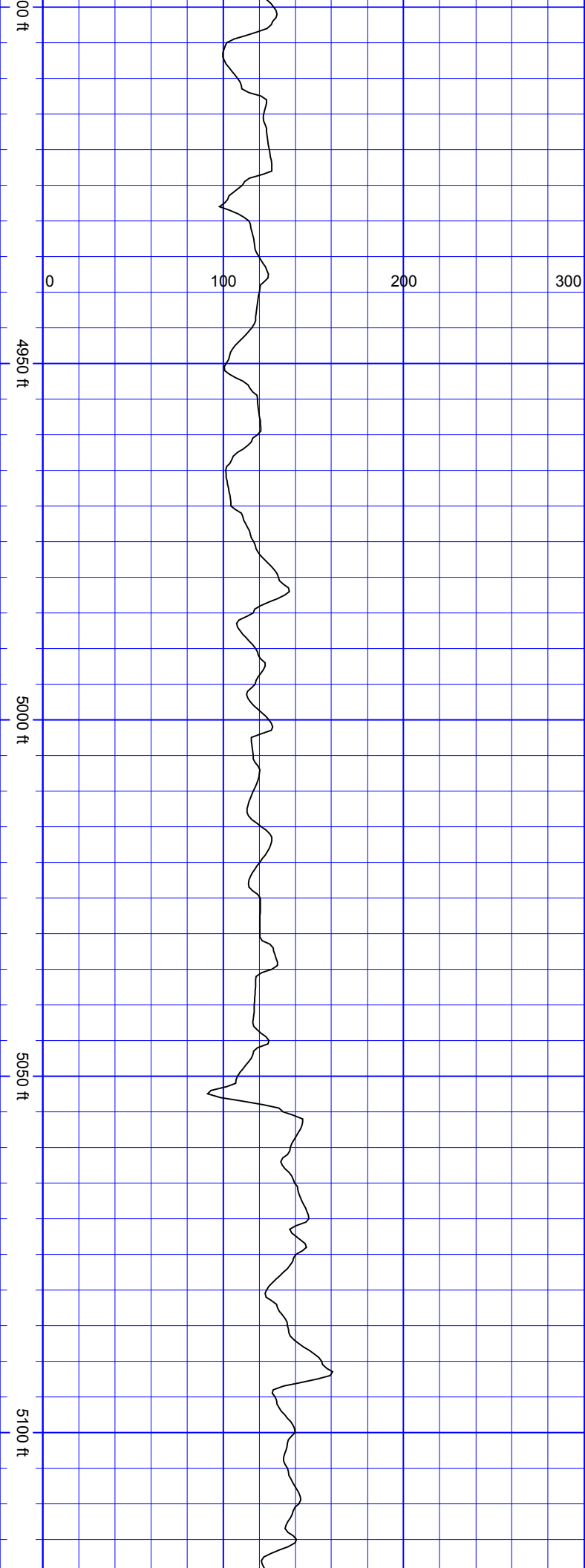




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TVD:4418.74 Inc:7.10 Azi:335.84 VertSec:-188.46	SurveyDepth:4549 TVD:4506.65 Inc:10.24 Azi:347 VertSec:-192.72			
TVD:4600.24 Inc:9.58 Azi:344.1 VertSec:-196.76	SurveyDepth:4644 TVD:4600.24 Inc:9.58 Azi:344.1 VertSec:-196.76			

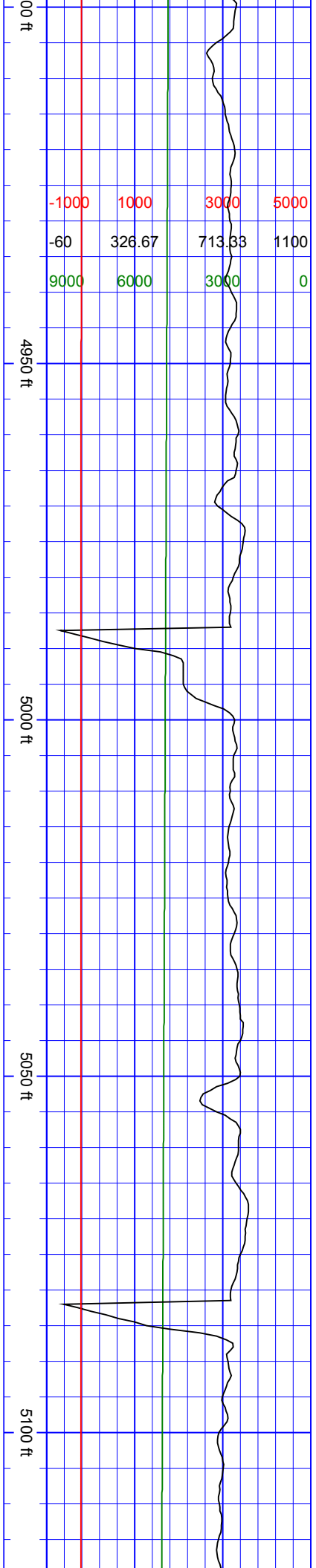


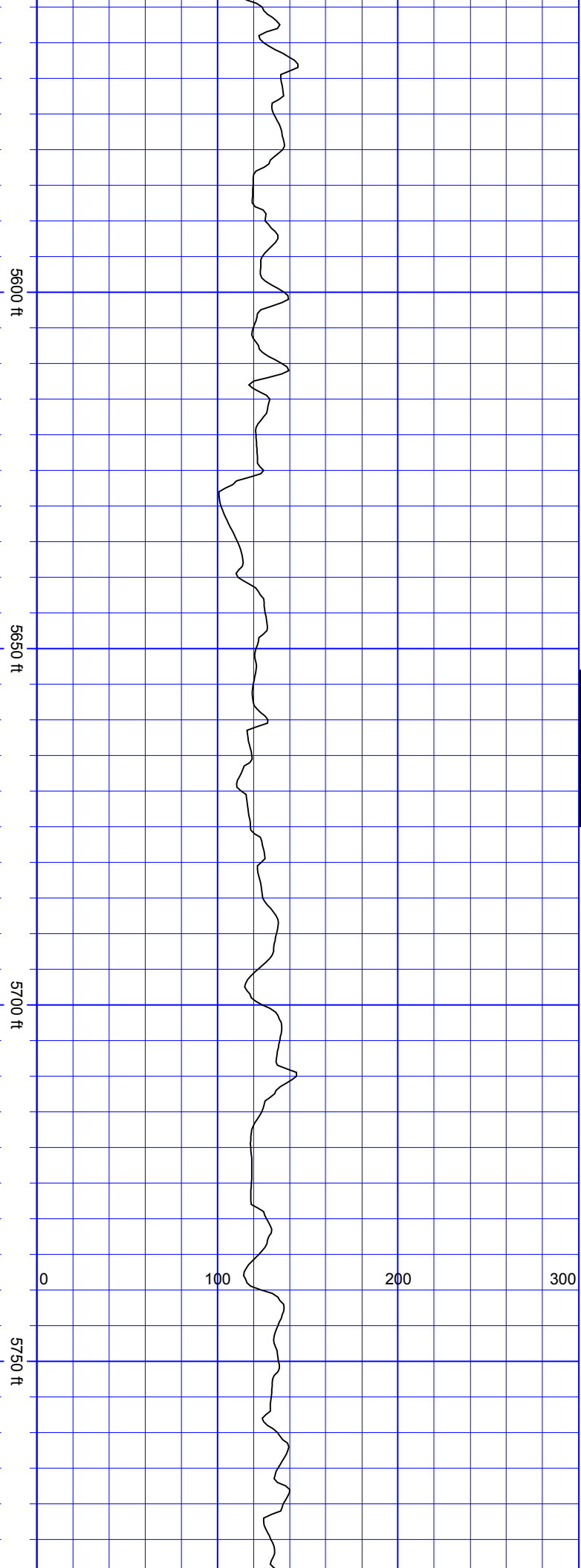


SurveyDepth:4927
TVD:4879.92 Inc:8.66
Azi:341.99 VertSec:-
209.85

SurveyDepth:5022
TVD:4973.92 Inc:8
Azi:338.3 VertSec:-
214.49

SurveyDepth:5117

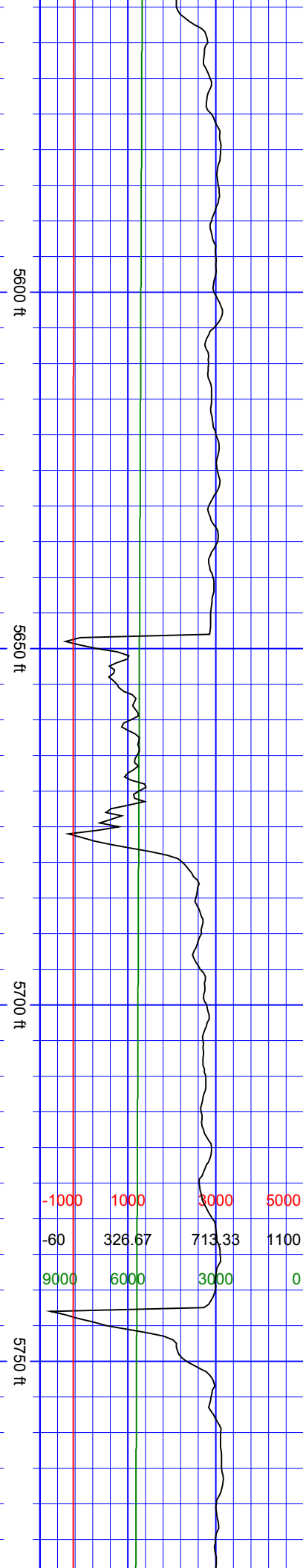


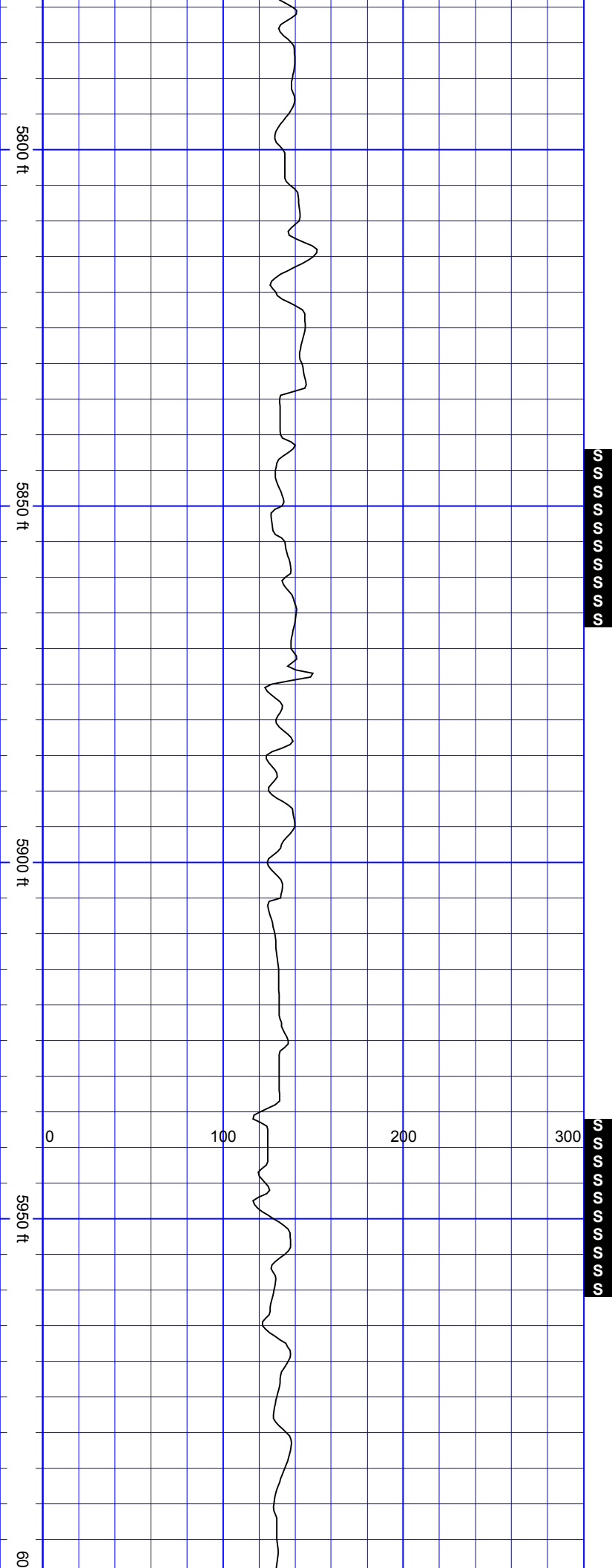


SurveyDepth:5589
TVD:5536.01 Inc:6.15
Azi:350.51 VertSec:-
231.83

SurveyDepth:5684
TVD:5630.24 Inc:8.39
Azi:345.59 VertSec:-
234.37

Survey Depth: 5370

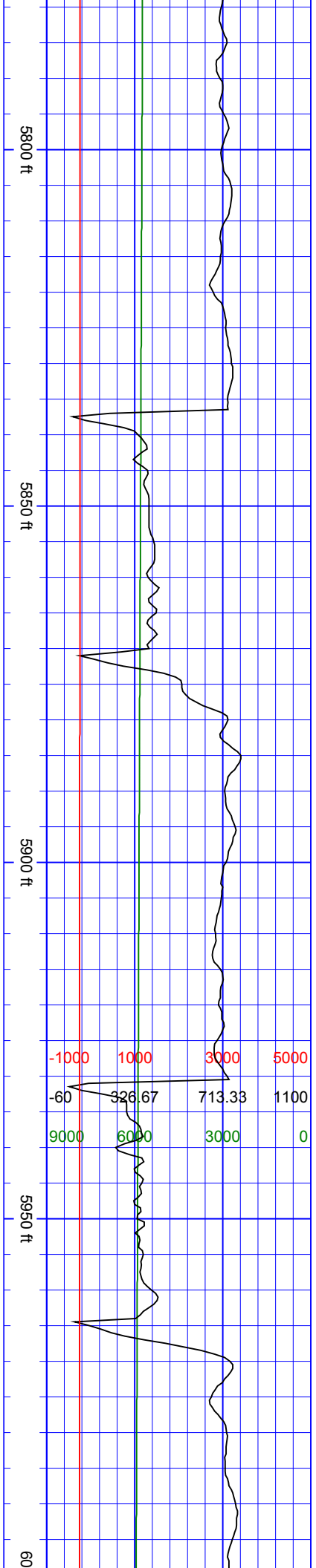


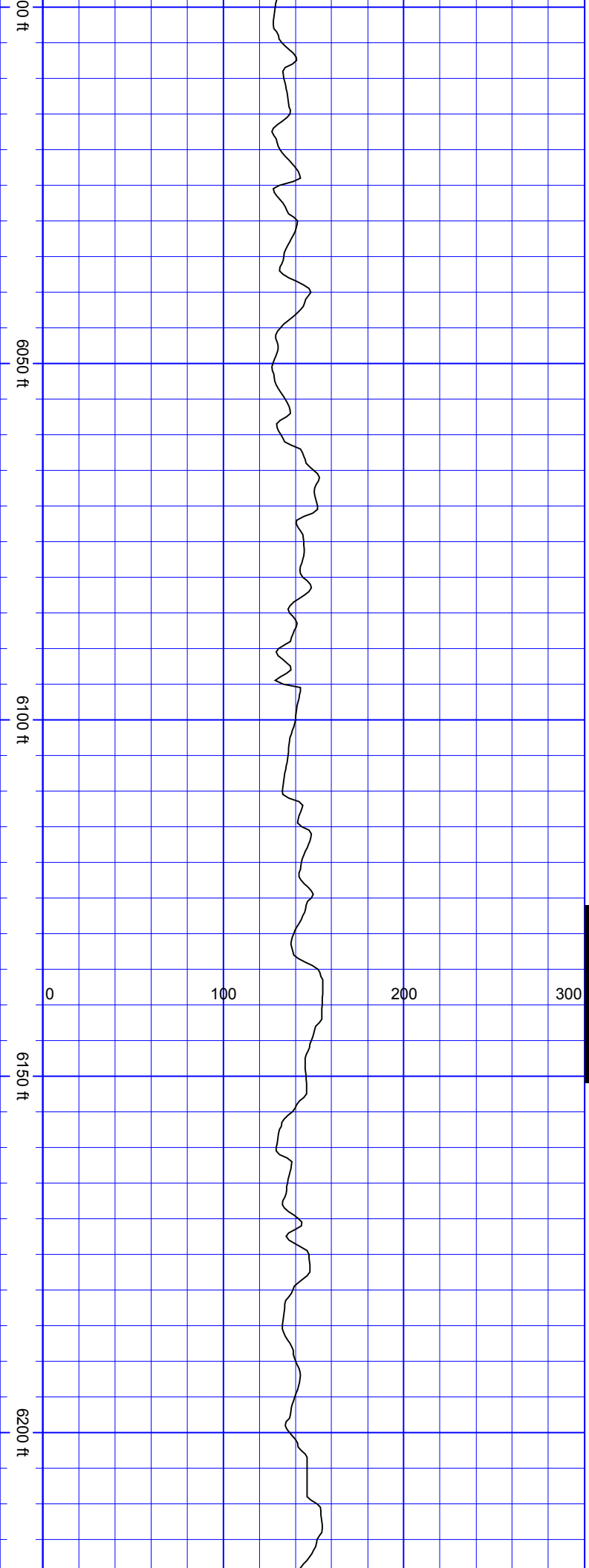


SurveyDepth:5778
TVD:5723.51 Inc:5.93
Azi:338.83 VertSec:-237.82

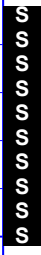
SurveyDepth:5872
TVD:5816.84 Inc:7.65
Azi:331.62 VertSec:-242.53

SurveyDepth:5968
TVD:5911.63 Inc:10.5
Azi:336.28 VertSec:-249.07

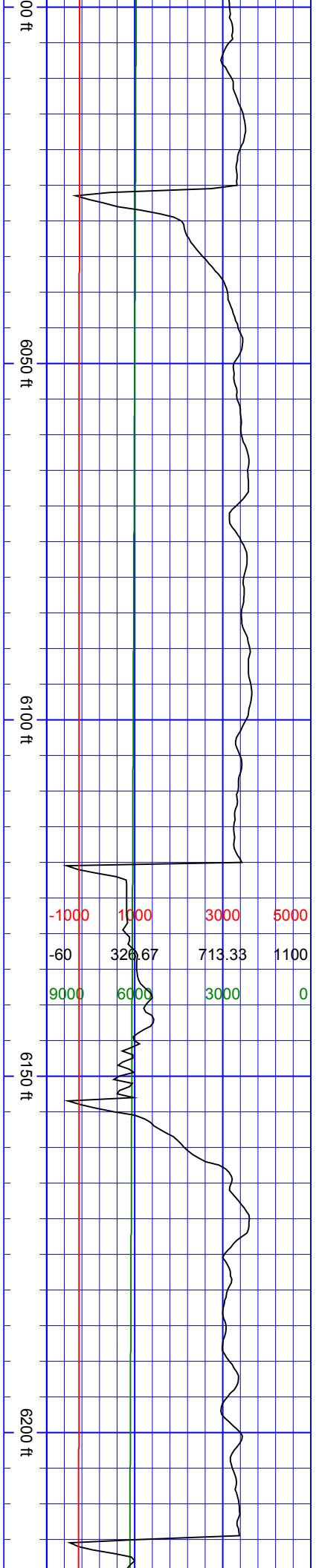


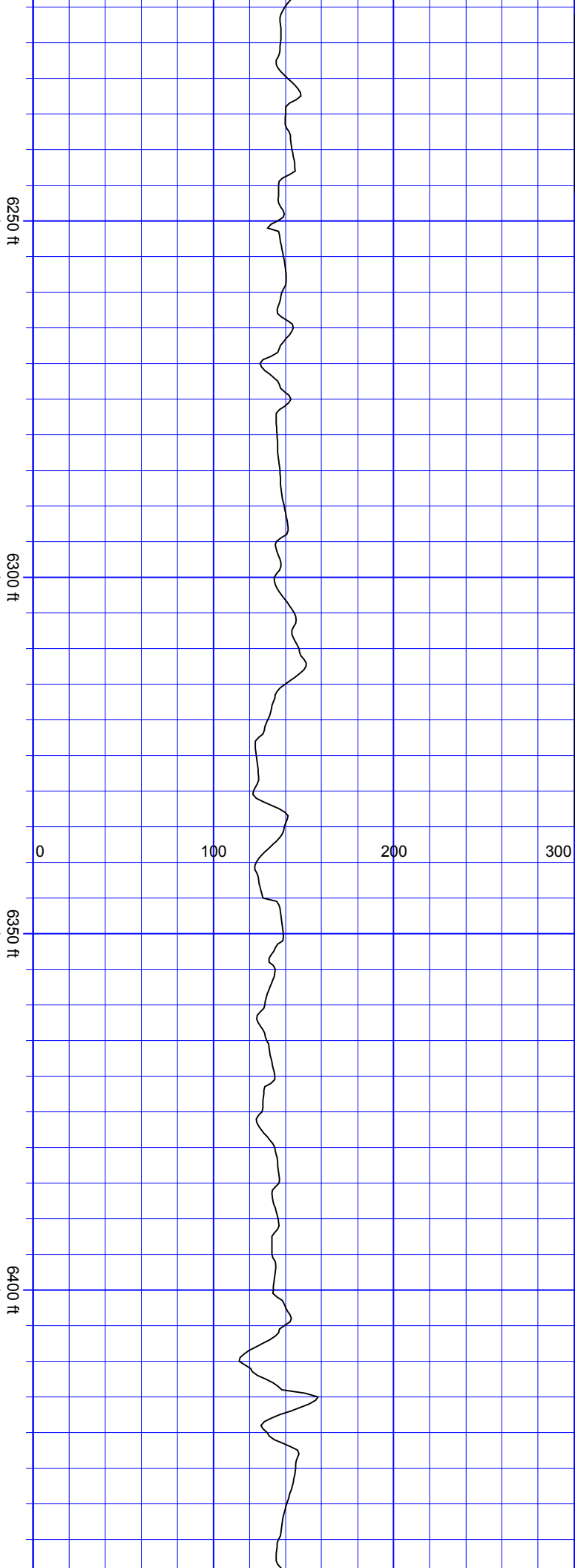


SurveyDepth:6062
TVD:6004.46 Inc:7.56
Azi:327.49 VertSec:-
255.82



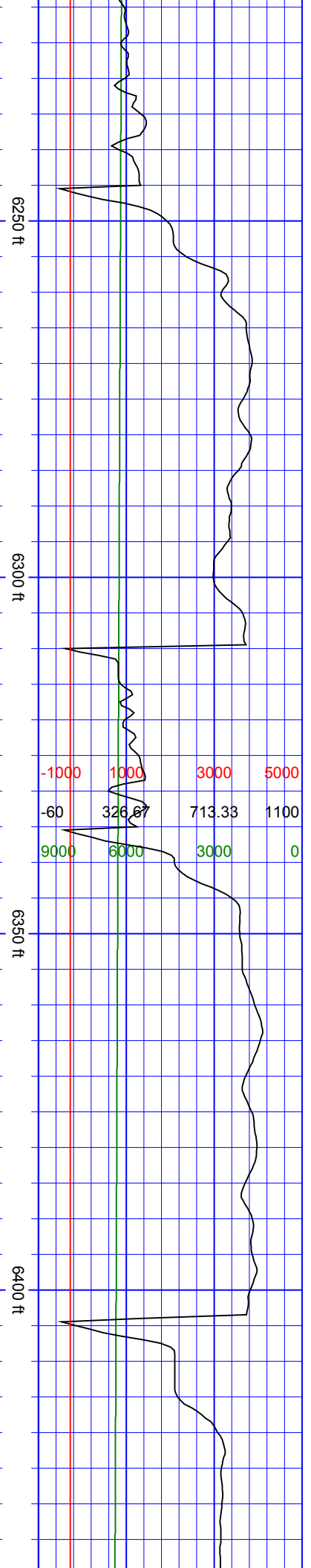
SurveyDepth:6157
TVD:6098.53 Inc:8.53
Azi:331.18 VertSec:-
262.55

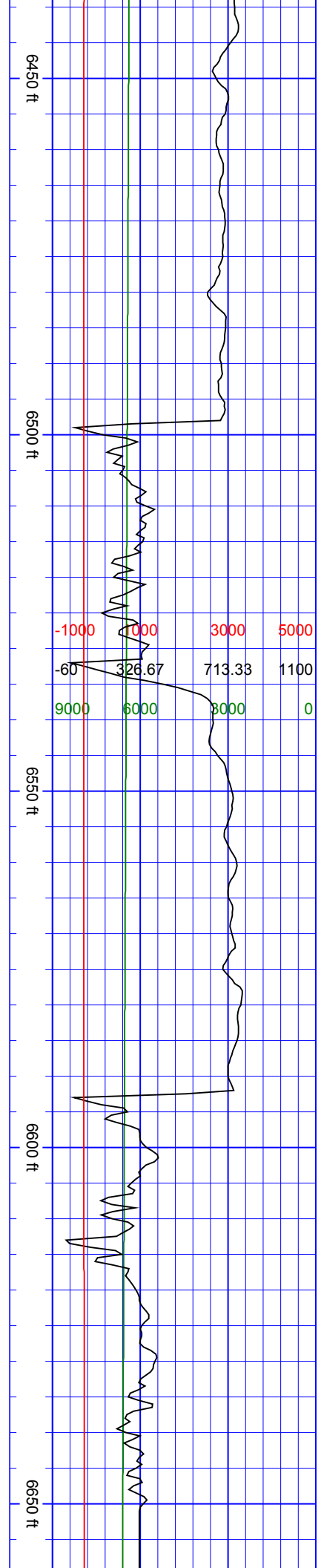
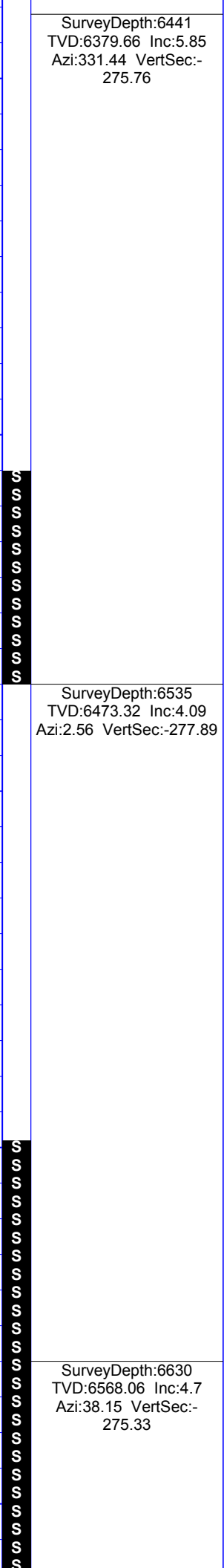
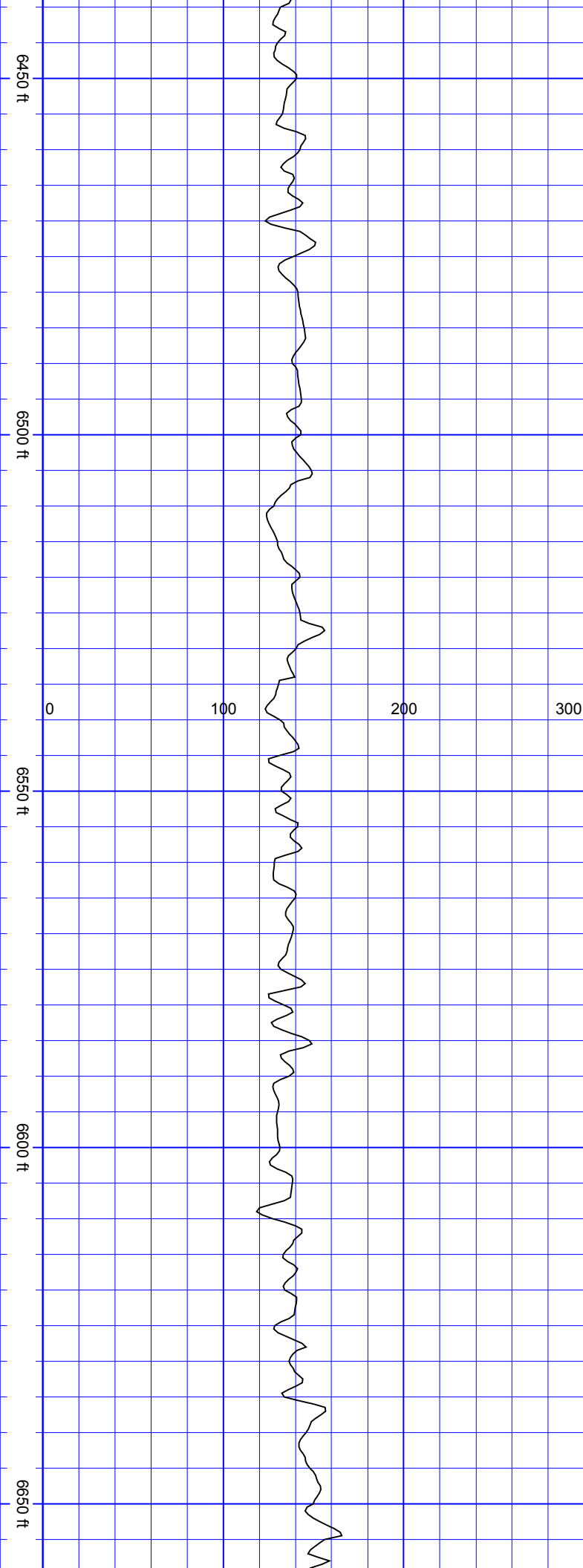


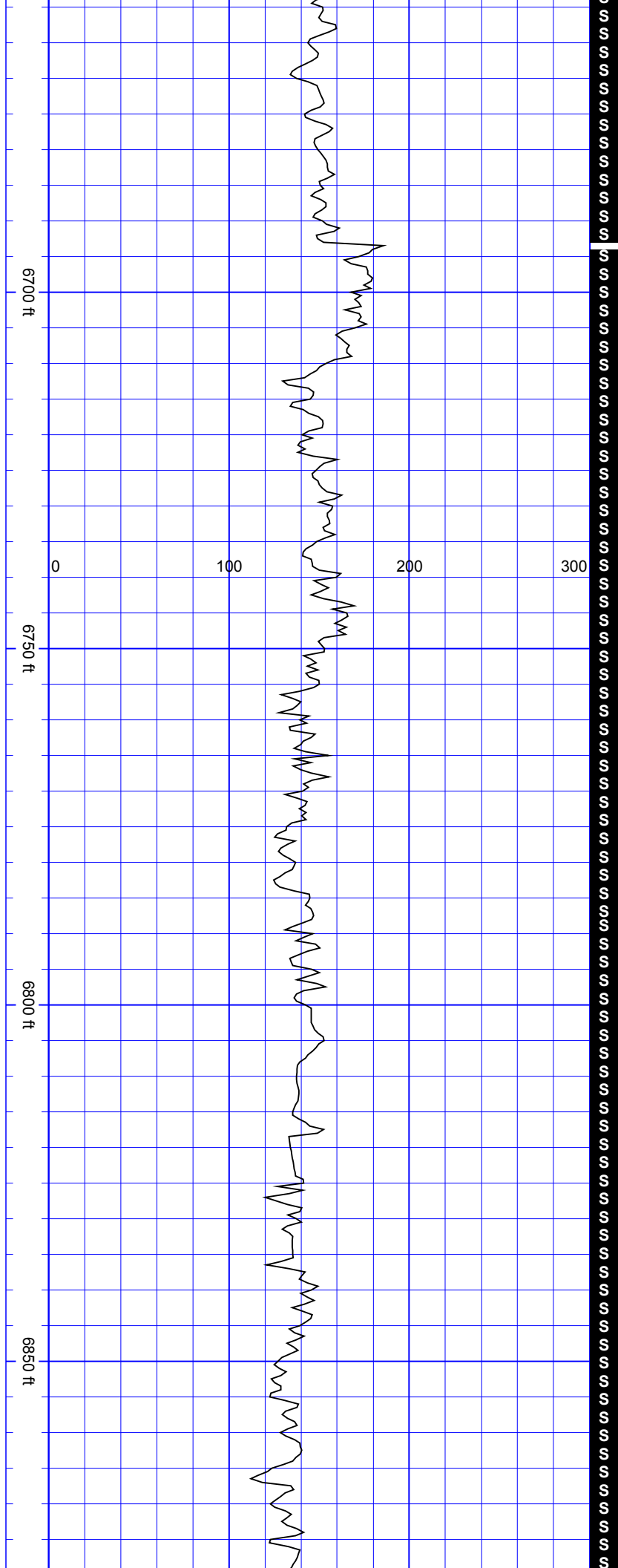


SurveyDepth:6251
TVD:6191.53 Inc:8.31
Azi:347.61 VertSec:-
267.35

SurveyDepth:6346
TVD:6285.46 Inc:8.92
Azi:341.55 VertSec:-
271.13

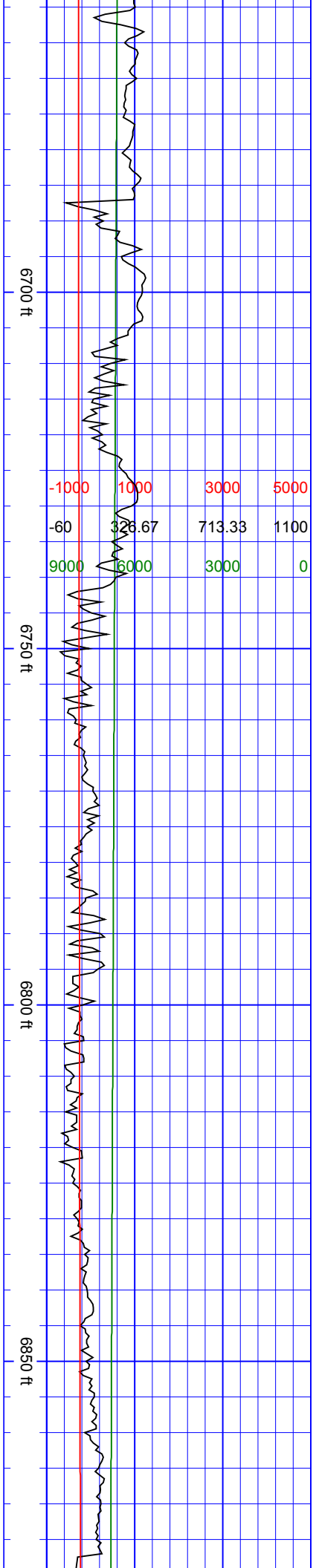




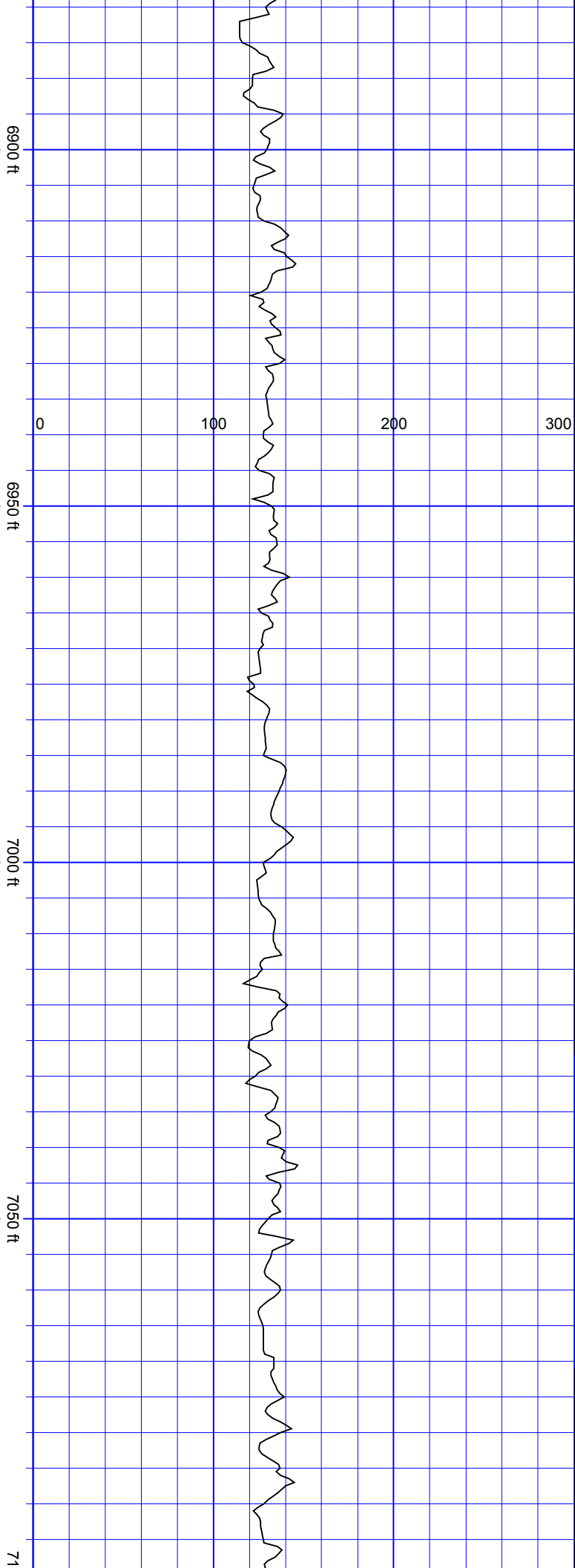


SurveyDepth:6724
TVD:6660.98 Inc:12.22
Azi:51.77 VertSec:-265.1

SurveyDepth:6818
TVD:6751.88 Inc:17.14
Azi:46.76 VertSec:-247.16

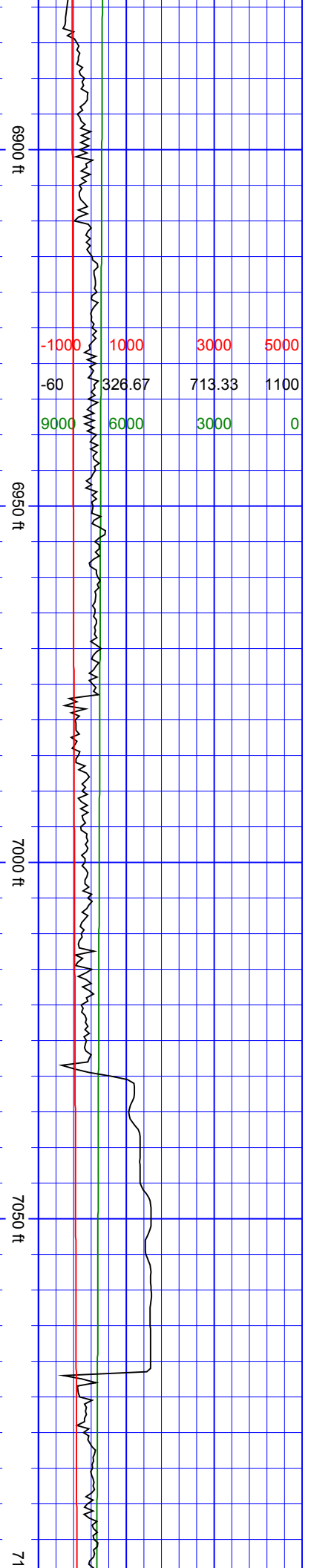


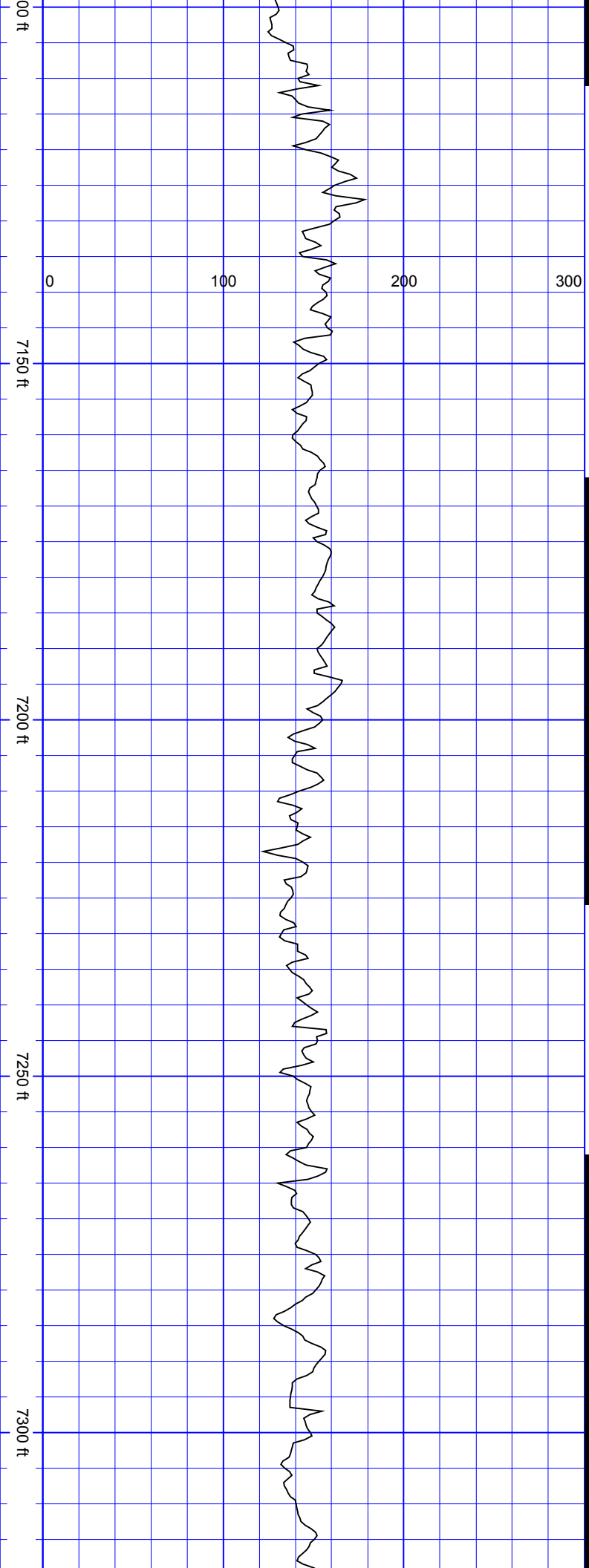
-1000	1000	3000	5000
-60	326.67	713.33	1100
9000	6000	3000	0



SurveyDepth:6913
TVD:6840.53 Inc:25.27
Azi:69.79 VertSec:-
217.81

SurveyDepth:7007
TVD:6922.41 Inc:33.79
Azi:88.07 VertSec:-
172.67

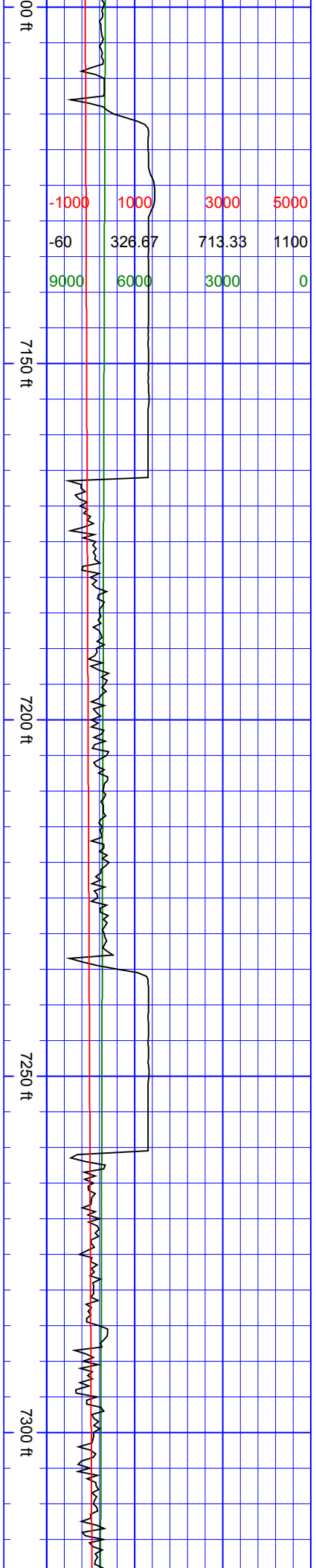


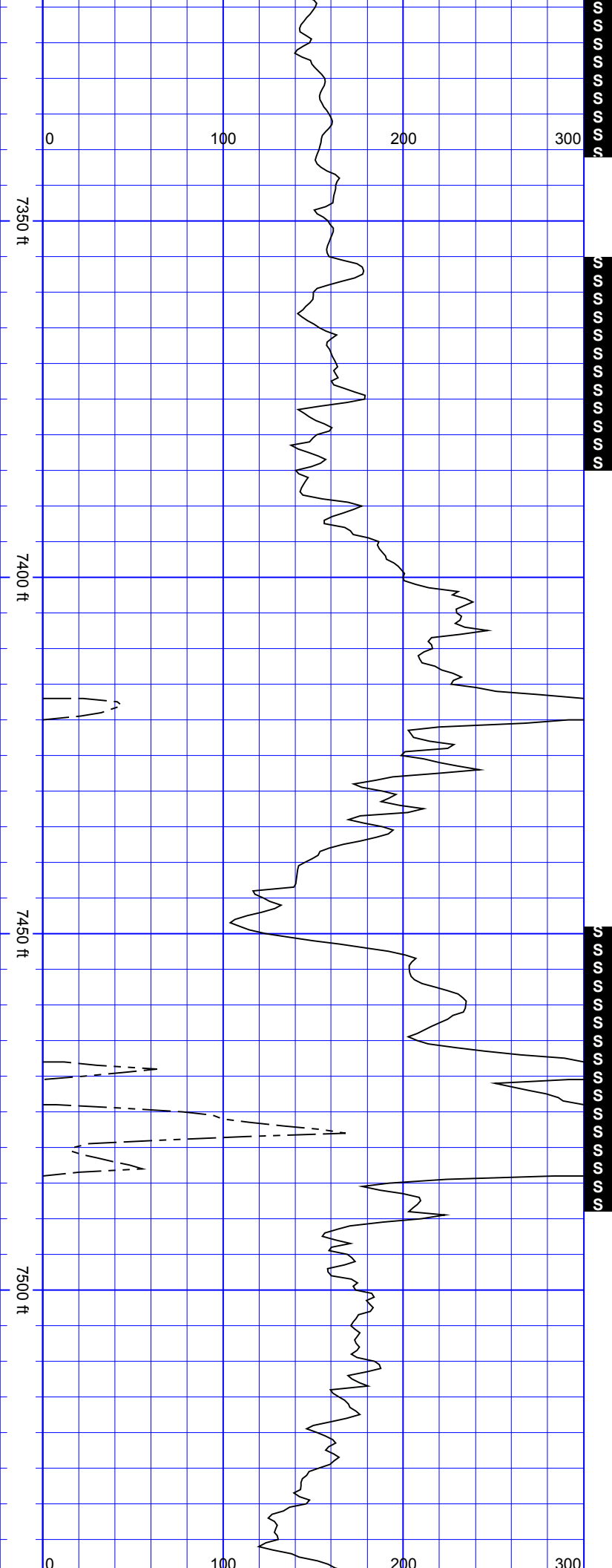


SurveyDepth:7102
TVD:6999.58 Inc:37.53
Azi:86.75 VertSec:-117.36

SurveyDepth:7197
TVD:7073.17 Inc:40.91
Azi:88.6 VertSec:-57.35

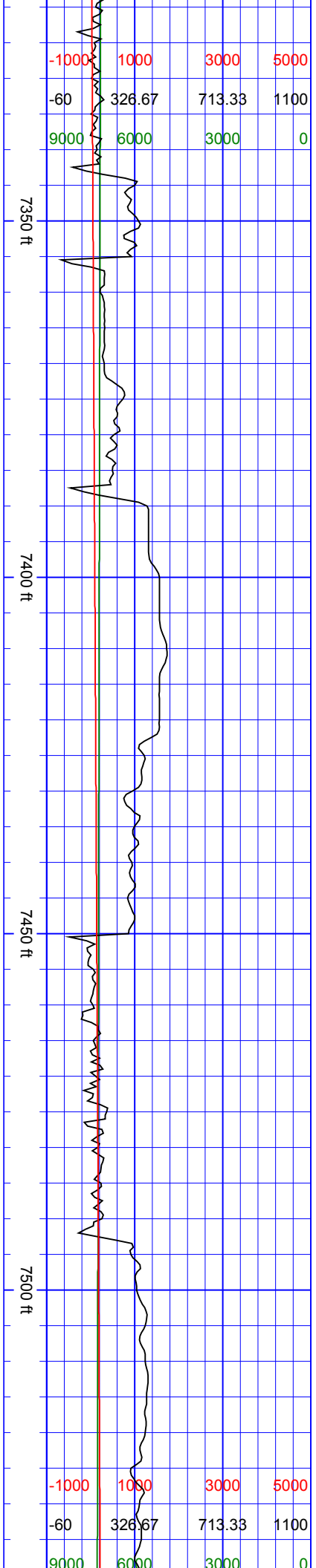
SurveyDepth:7291
TVD:7139.14 Inc:49.83
Azi:88.6 VertSec:9.46

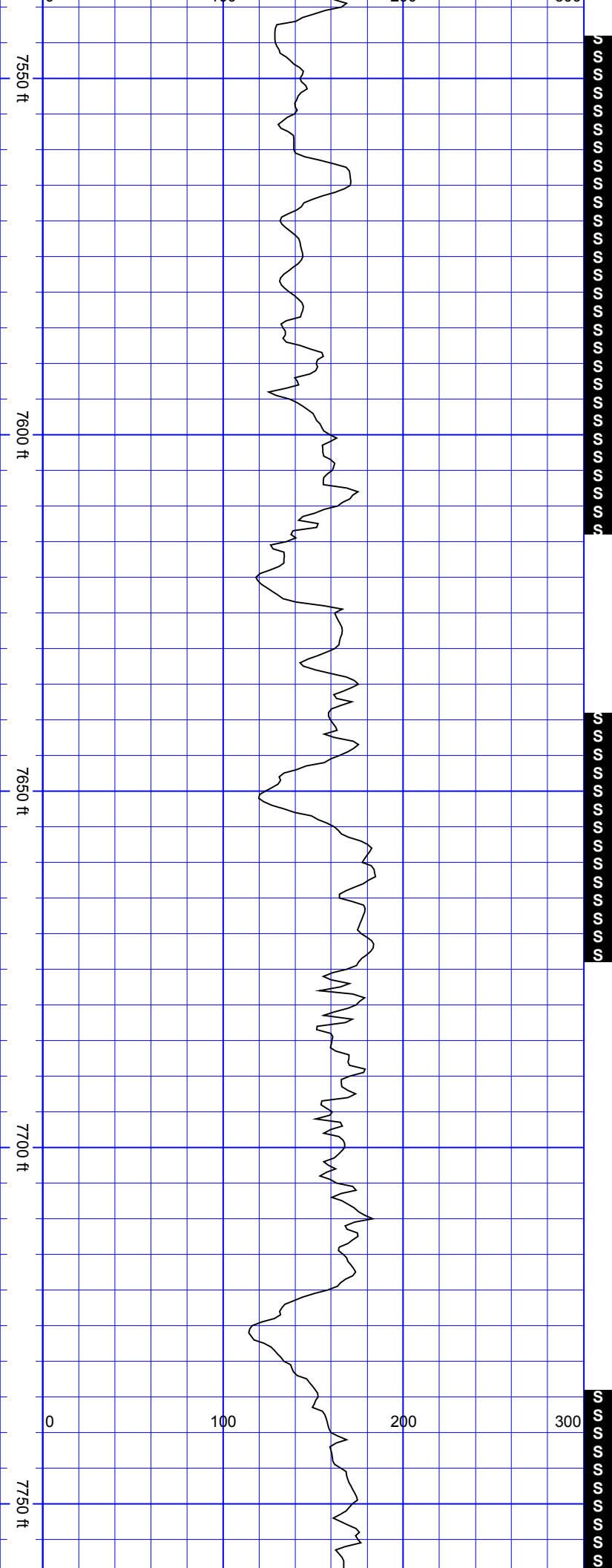




SurveyDepth:7385
TVD:7193.77 Inc:59.02
Azi:88.25 VertSec:85.81

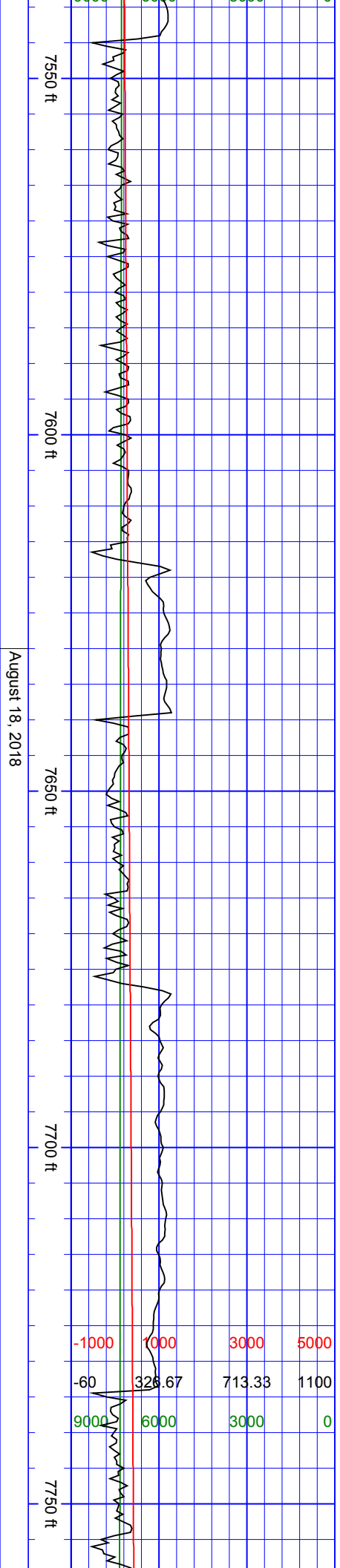
SurveyDepth:7480
TVD:7241.04 Inc:61.3
Azi:87.02
VertSec:168.14



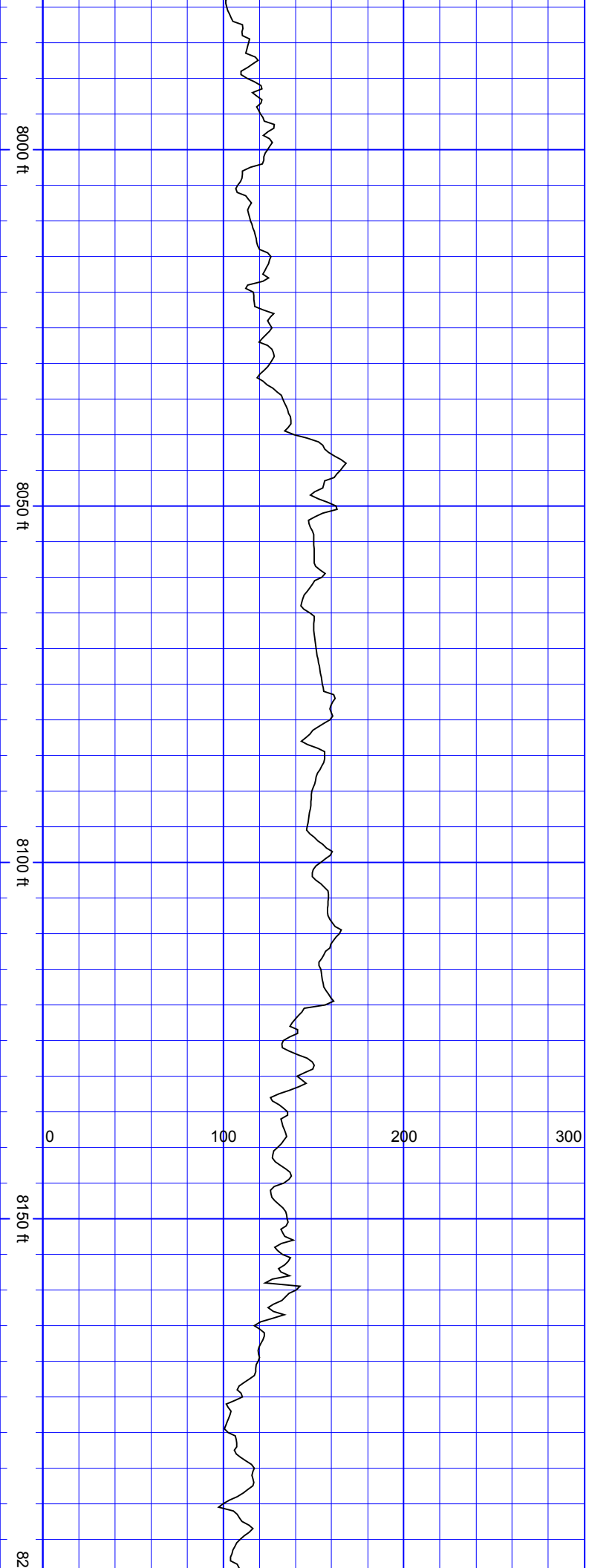


SurveyDepth:7575
TVD:7282.5 Inc:66.93
Azi:85.7 VertSec:253.41

SurveyDepth:7670
TVD:7312.55 Inc:76.16
Azi:90.27
VertSec:343.35

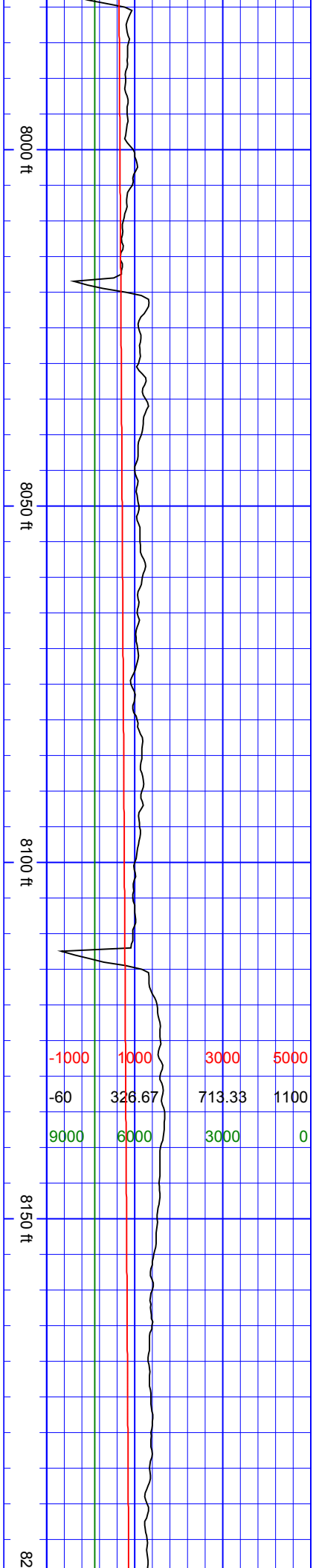


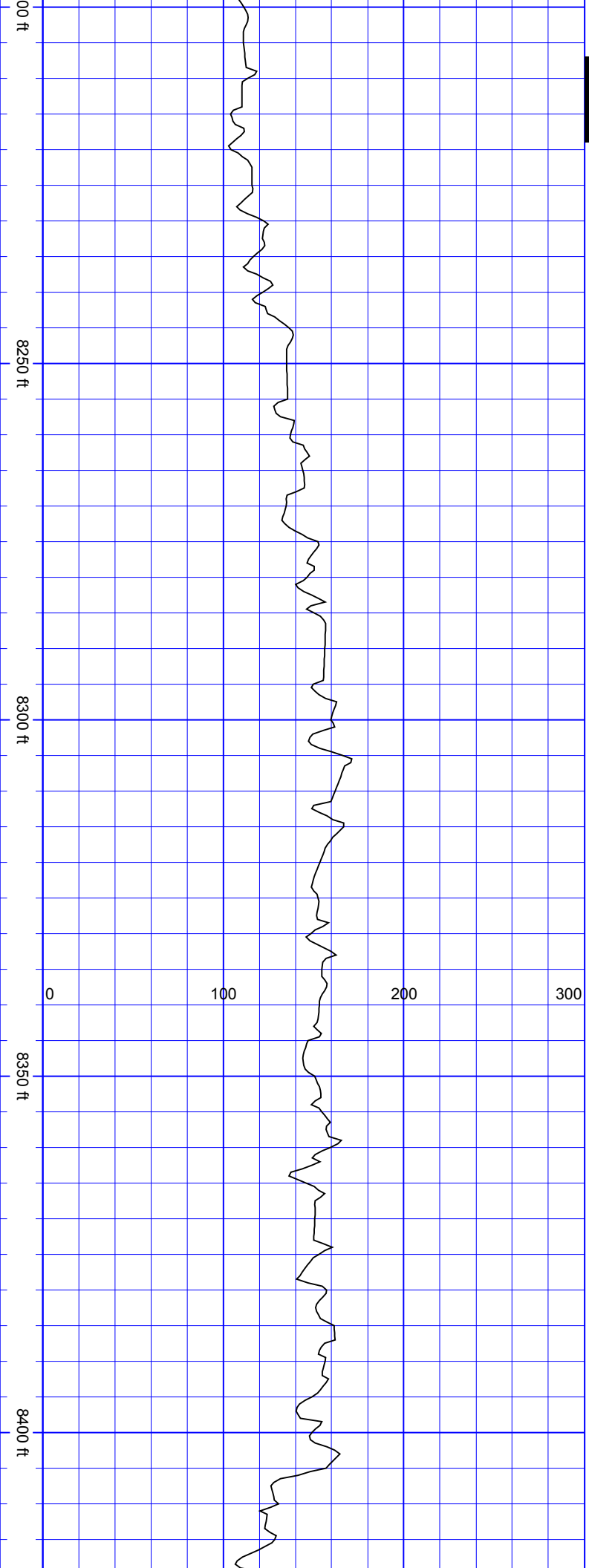
August 18, 2018



SurveyDepth:8048
TVD:7354.25 Inc:90.79
Azi:86.4 VertSec:717.42

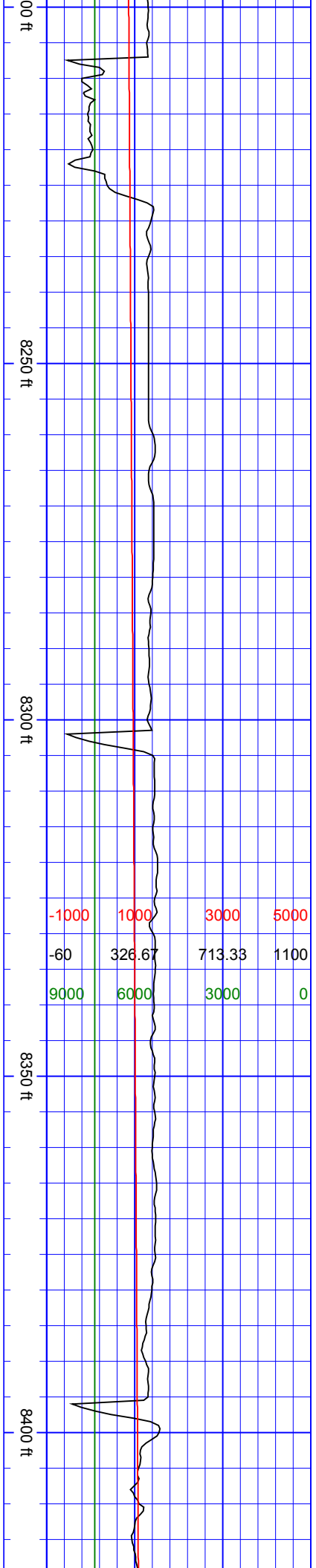
SurveyDepth:8143
TVD:7353.02 Inc:90.7
Azi:86.23
VertSec:812.23

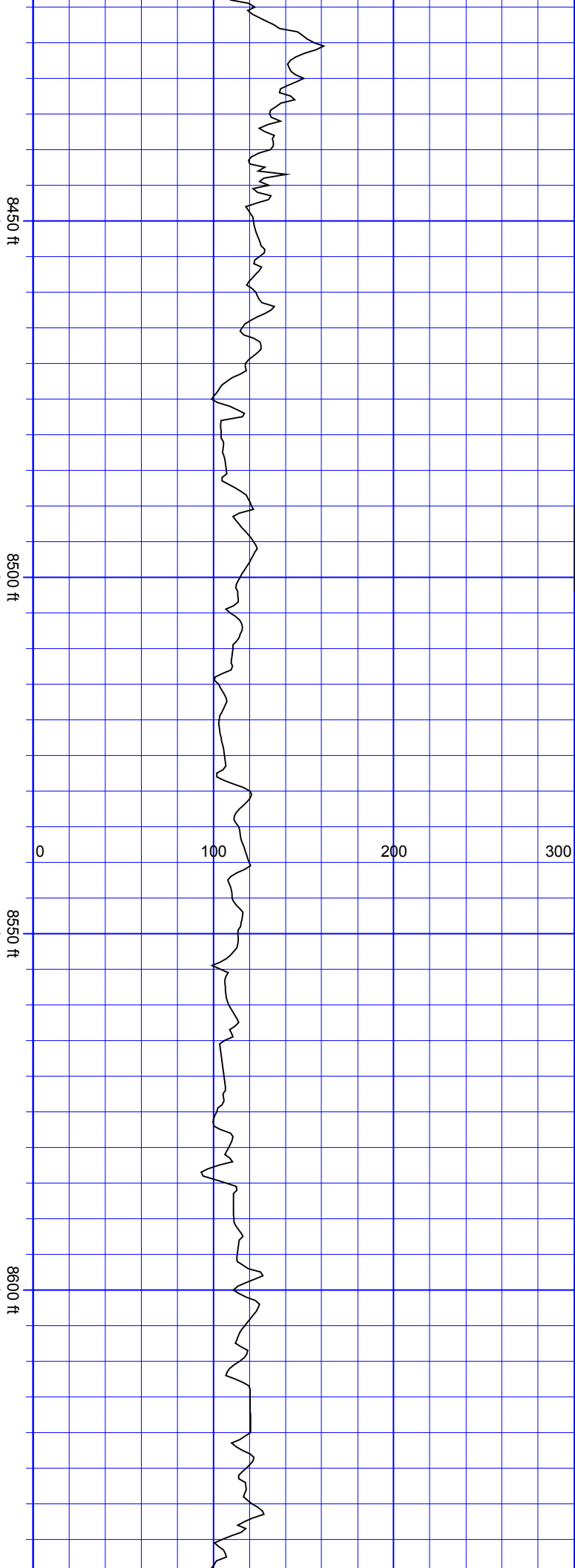




SurveyDepth:8237
TVD:7353.35 Inc:88.9
Azi:87.55
VertSec:906.09

SurveyDepth:8331
TVD:7355.8 Inc:88.11
Azi:86.67
VertSec:999.95



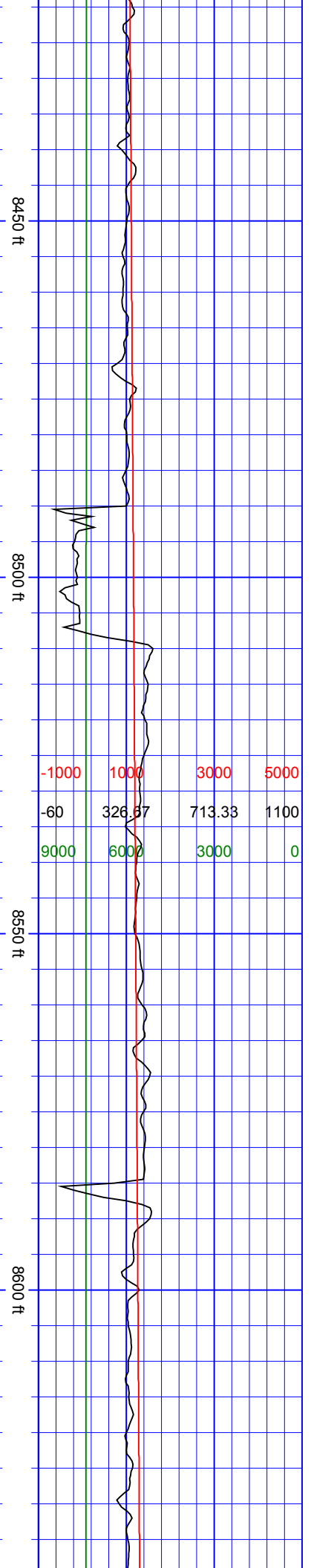


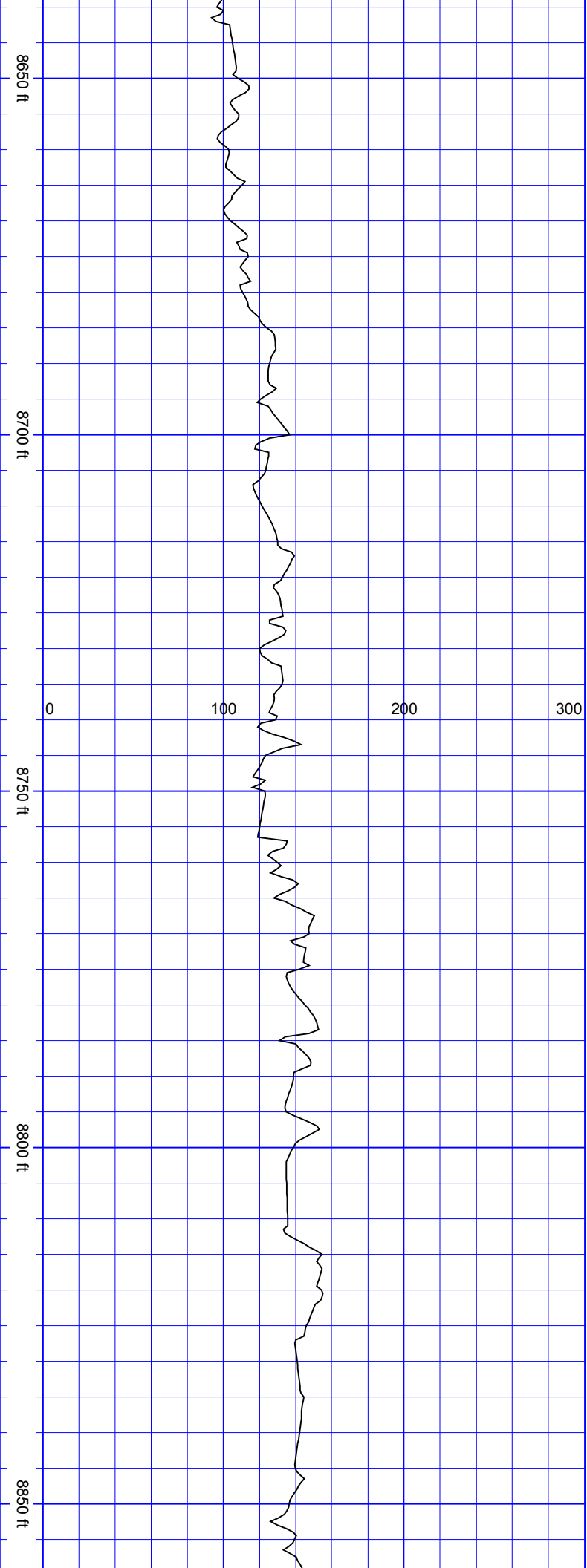
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SurveyDepth:8426
TVD:7359.59 Inc:87.32
Azi:86.93
VertSec:1094.73

SurveyDepth:8520
TVD:7363.08 Inc:88.42
Azi:89.22
VertSec:1188.61

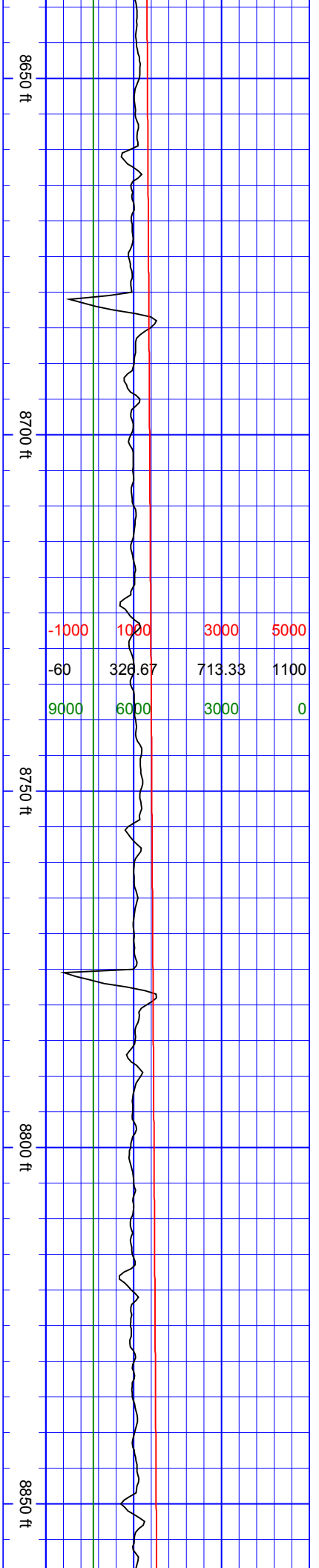
SurveyDepth:8614
TVD:7365.42 Inc:88.73
Azi:89.13
VertSec:1282.57

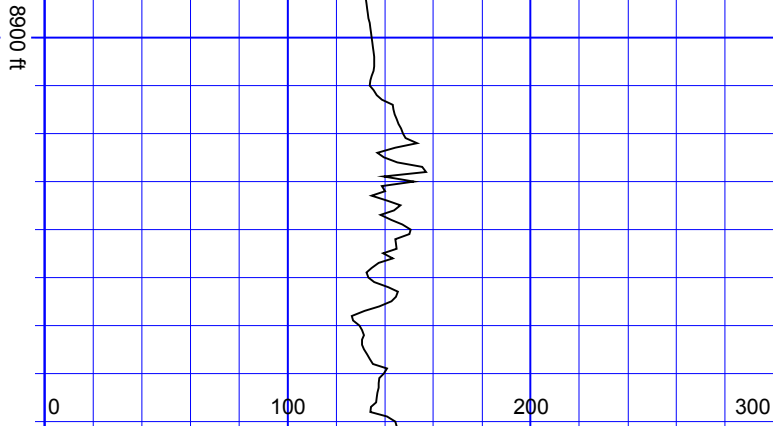




SurveyDepth:8709
TVD:7367.89 Inc:88.29
Azi:88.78
VertSec:1377.53

SurveyDepth:8803
TVD:7370.66 Inc:88.33
Azi:88.07
VertSec:1471.45



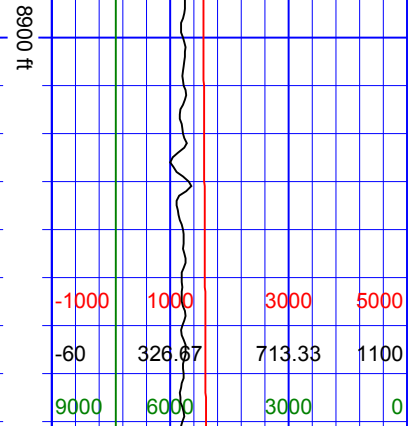


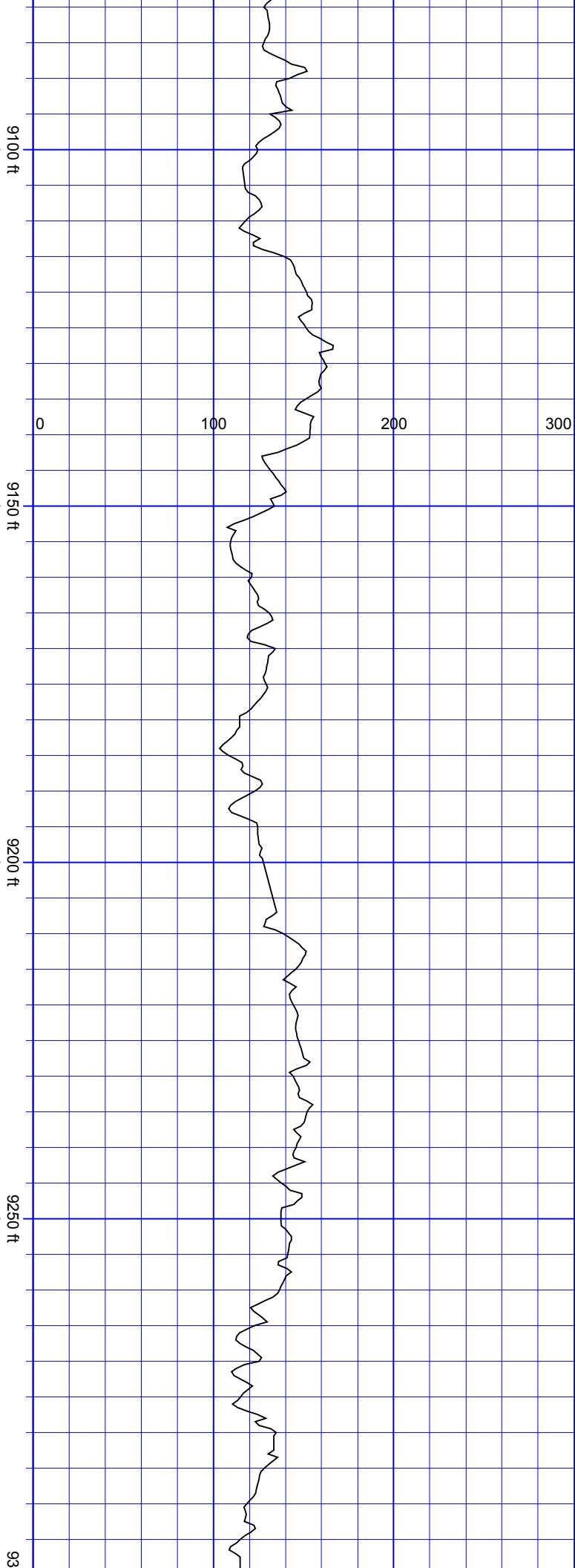
SurveyDepth:8899
TVD:7373.06 Inc:88.81
Azi:87.9
VertSec:1567.37

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SurveyDepth:8993
TVD:7376.85 Inc:86.57
Azi:89.92
VertSec:1661.27

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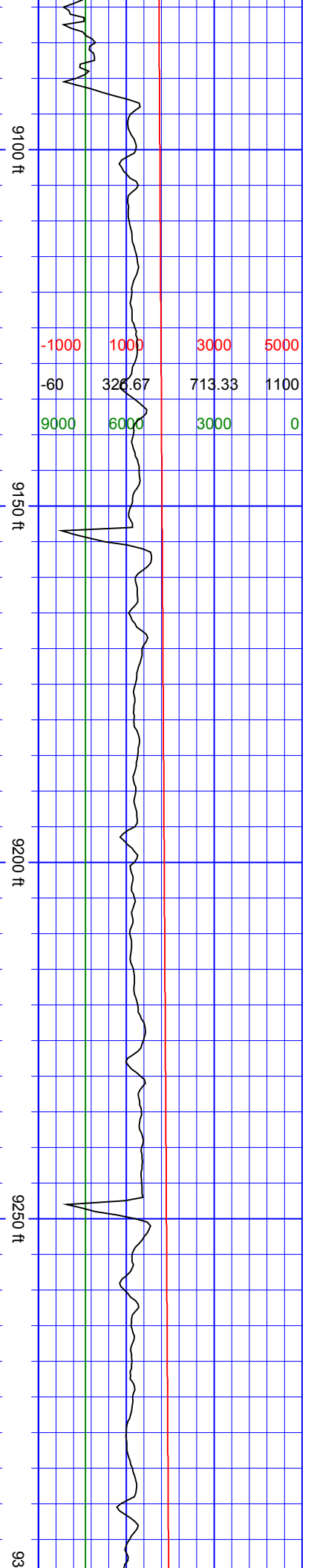


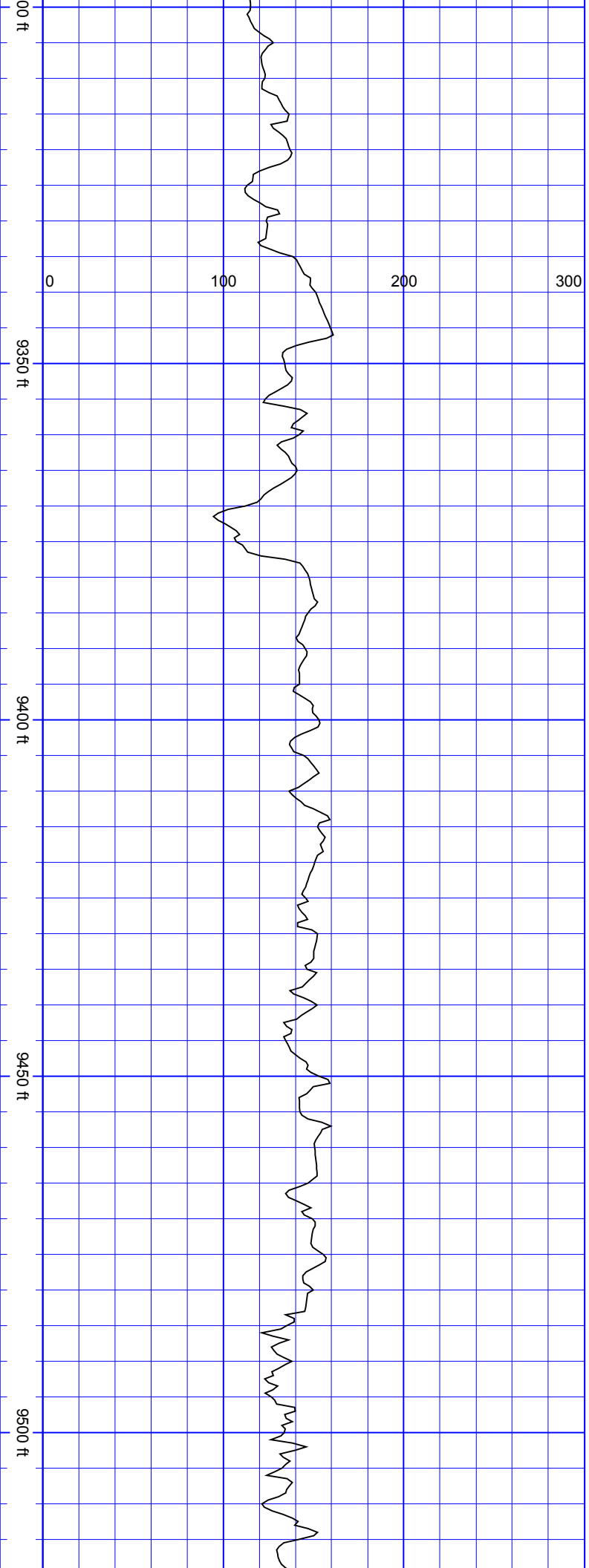


SurveyDepth:9088
TVD:7380.53 Inc:88.99
Azi:90.53
VertSec:1756.19

SurveyDepth:9183
TVD:7381.62 Inc:89.69
Azi:89.83
VertSec:1851.18

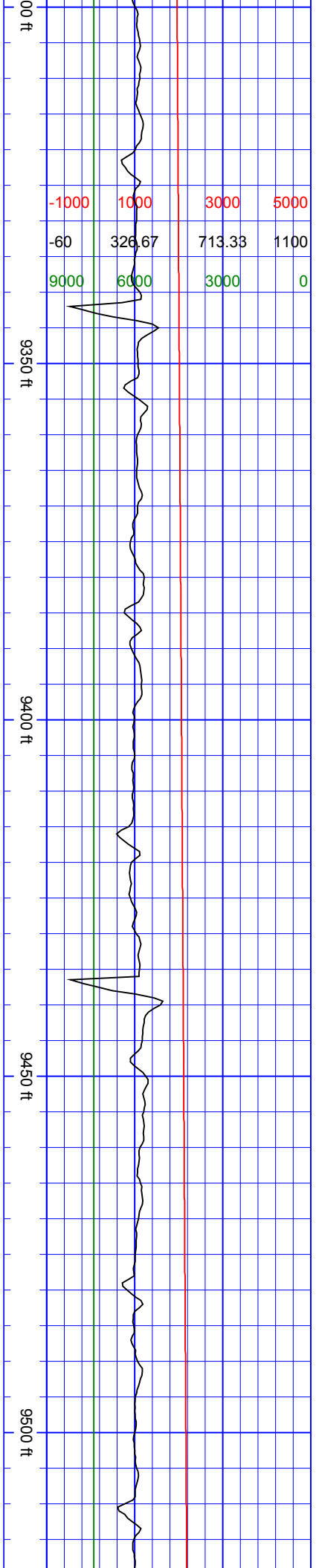
SurveyDepth:9277
TVD:7382.52 Inc:89.21
Azi:89.13
VertSec:1945.17

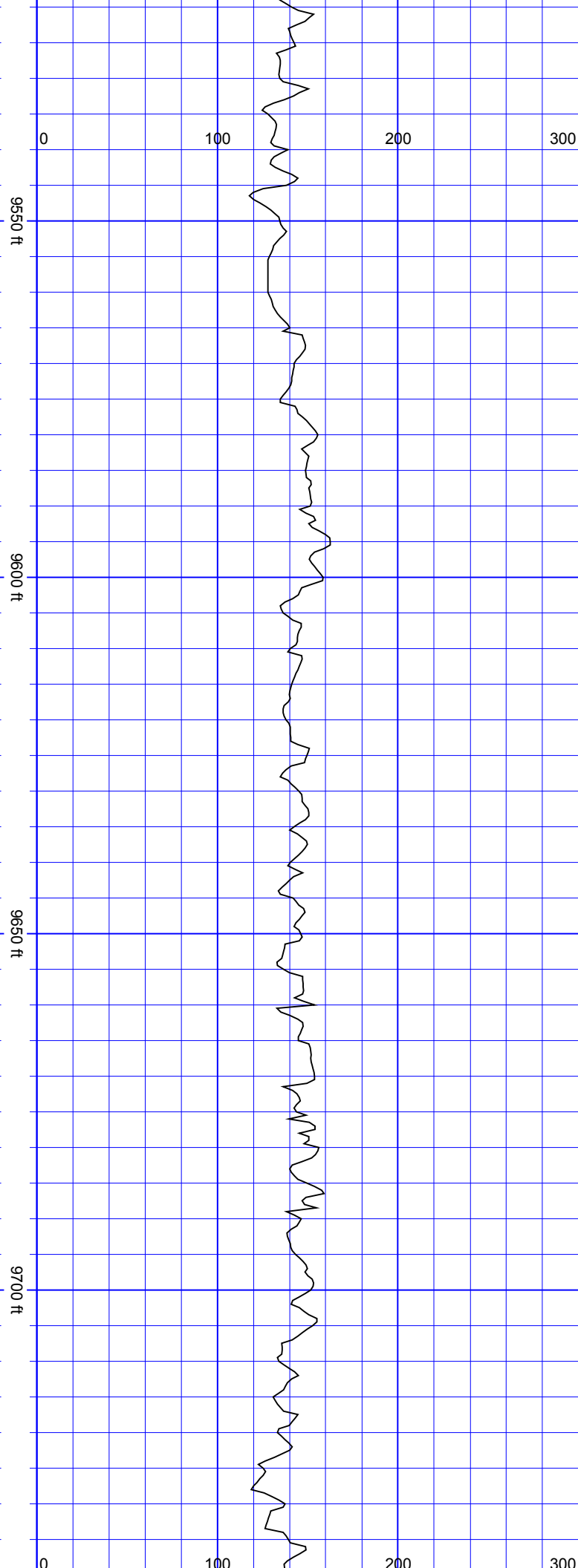




SurveyDepth:9373
TVD:7382.92 Inc:90.31
Azi:88.16
VertSec:2041.14

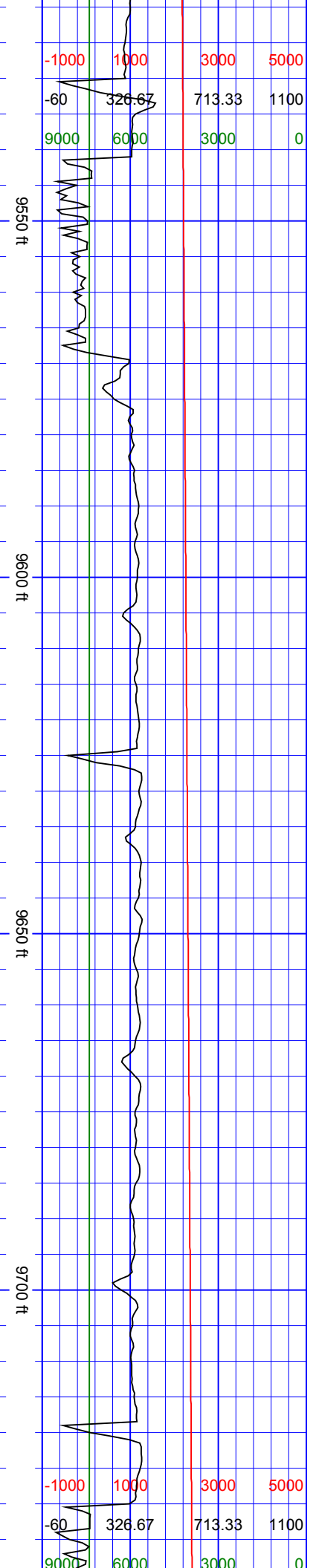
SurveyDepth:9467
TVD:7382.92 Inc:89.69
Azi:86.75
VertSec:2135.05

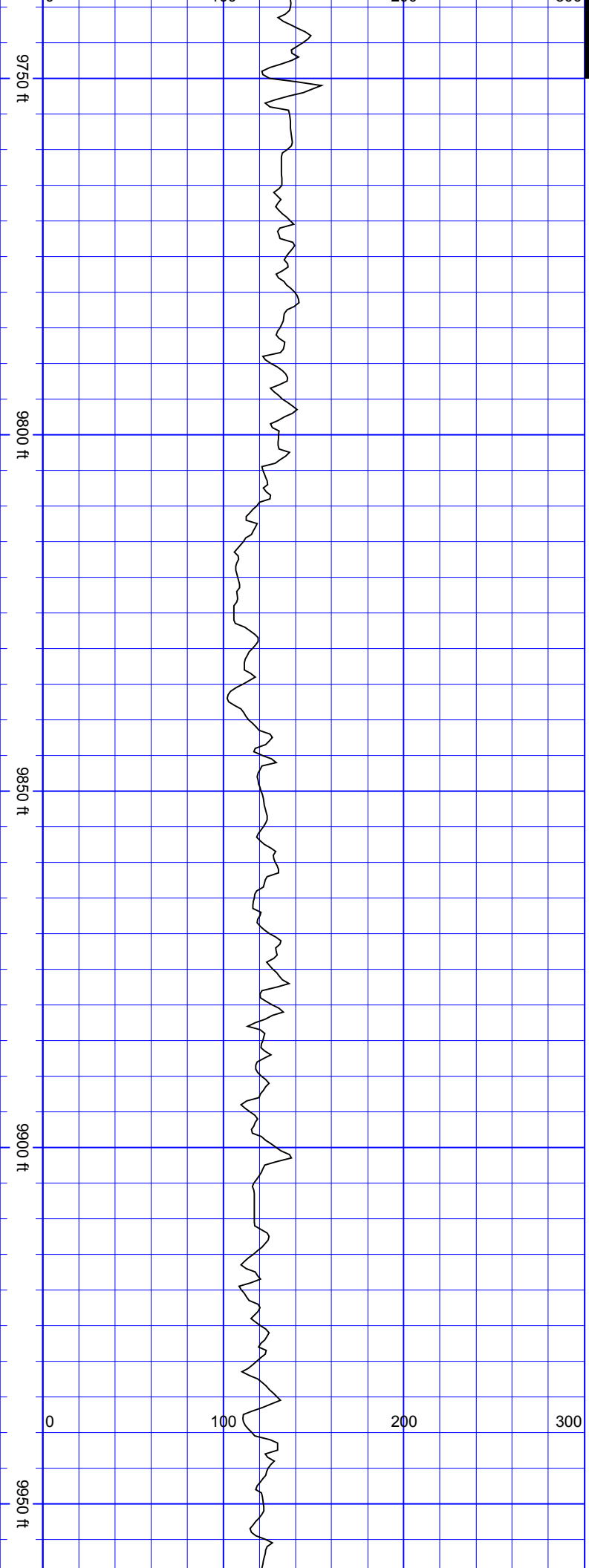




SurveyDepth:9562
TVD:7382.85 Inc:90.4
Azi:89.92
VertSec:2230.01

SurveyDepth:9656
TVD:7382.05 Inc:90.57
Azi:88.6
VertSec:2323.99



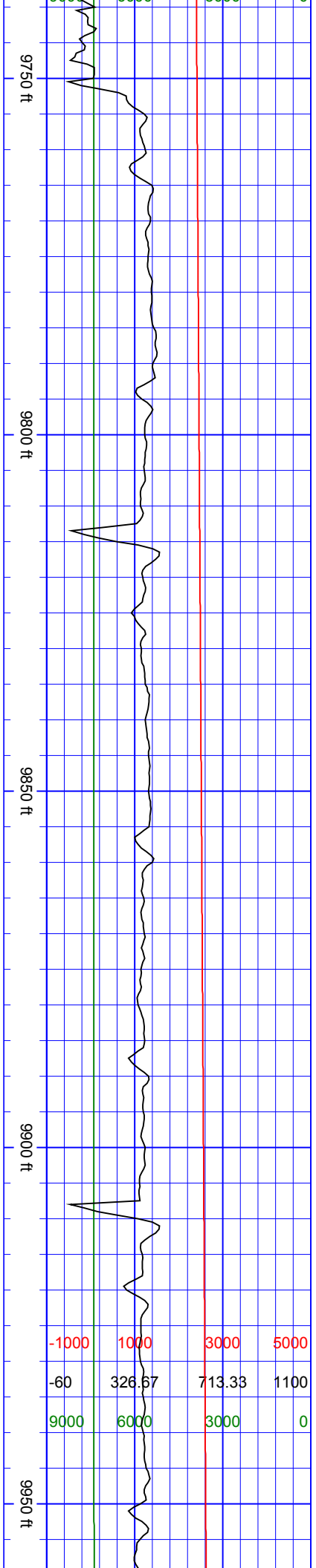


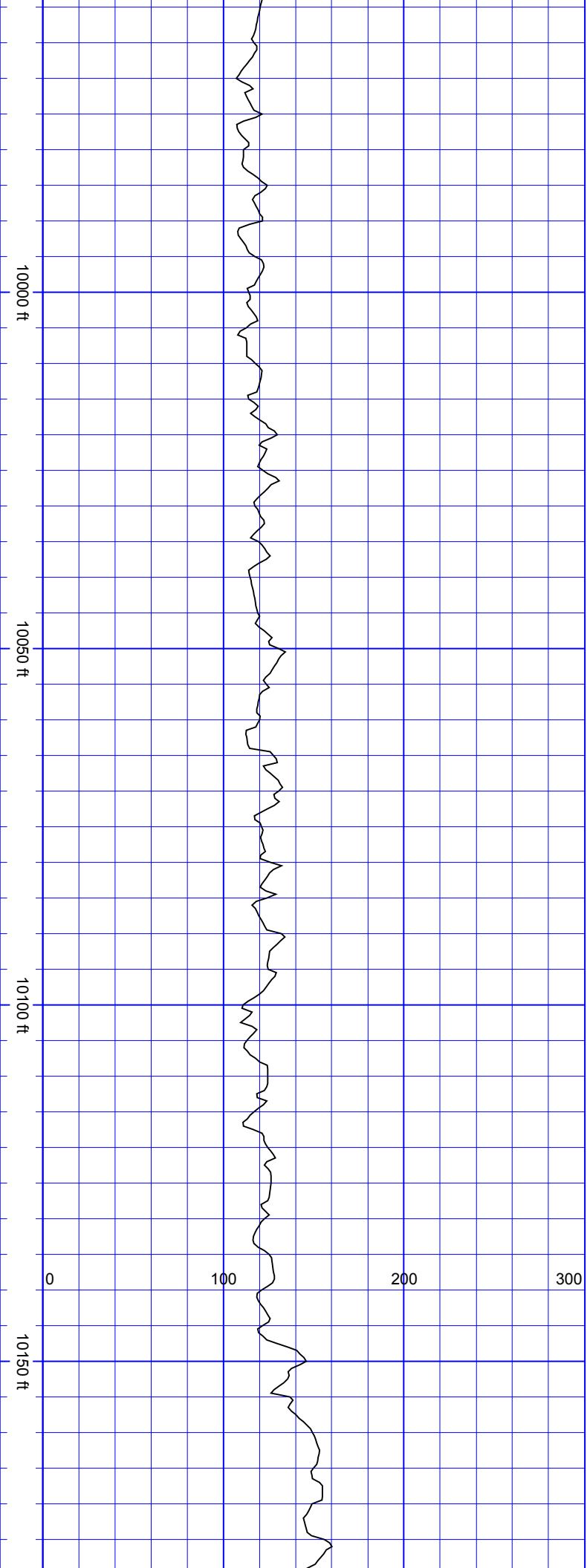
SSSS

SurveyDepth:9750
TVD:7381.01 Inc:90.7
Azi:91.24
VertSec:2417.98

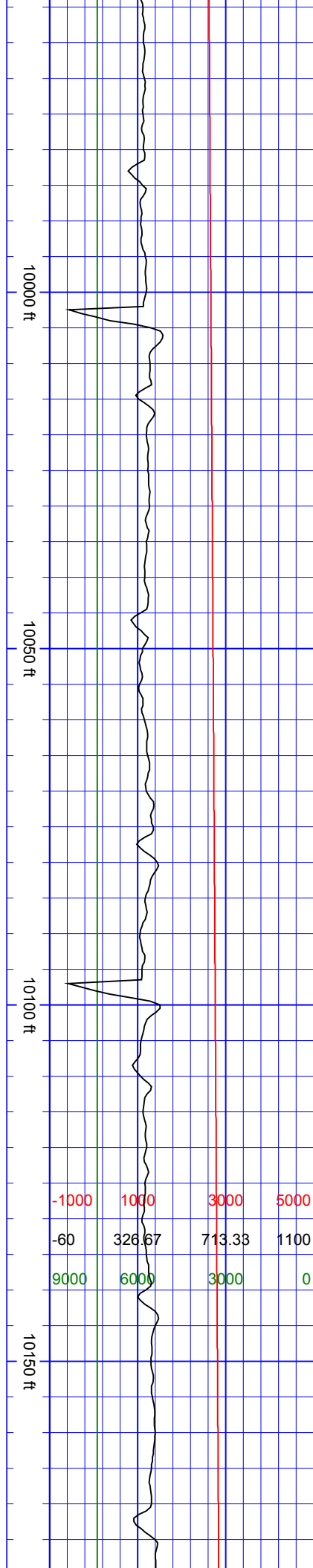
SurveyDepth:9844
TVD:7379.79 Inc:90.79
Azi:91.76
VertSec:2511.94

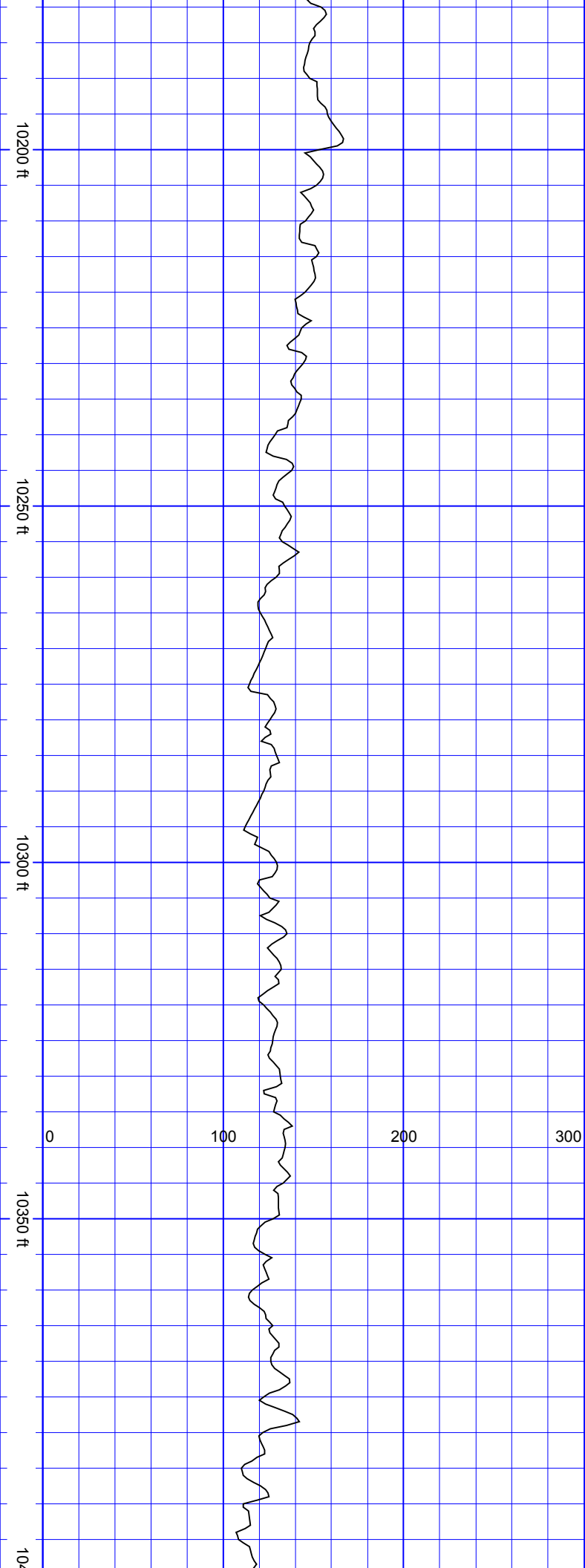
SurveyDepth:9939
TVD:7378.55 Inc:90.7
Azi:90.8 VertSec:2606.9





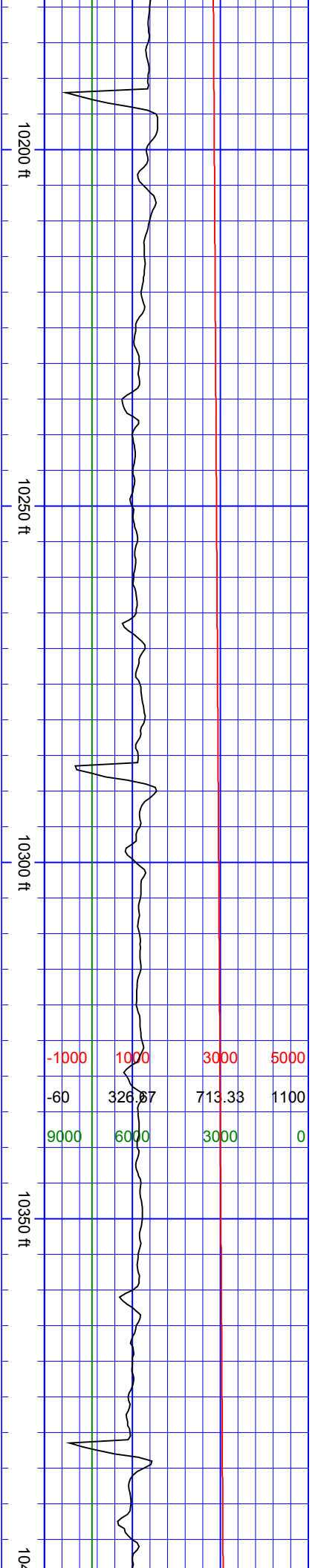
SurveyDepth:10034 TVD:7377.32 Inc:90.79 Azi:90.01 VertSec:2701.89
SurveyDepth:10128 TVD:7376.13 Inc:90.66 Azi:89.3 VertSec:2795.88

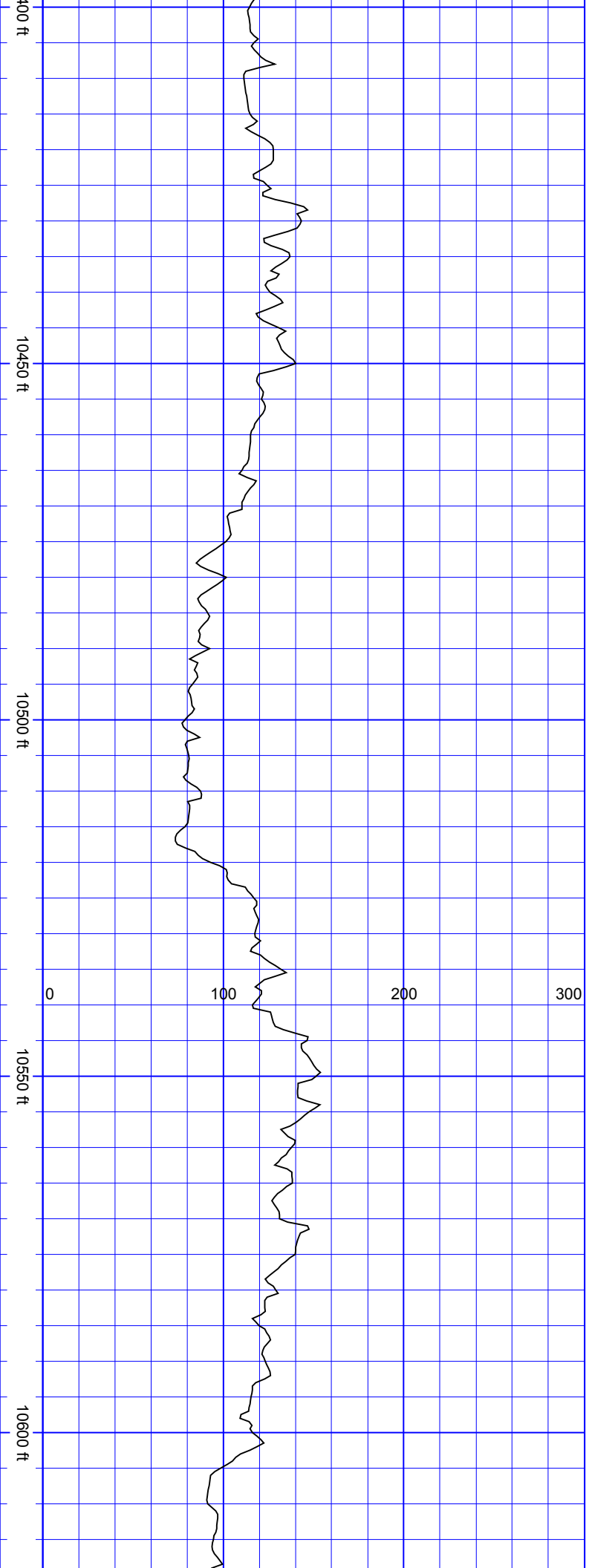




SurveyDepth:10223
TVD:7375.22 Inc:90.44
Azi:89.22
VertSec:2890.87

SurveyDepth:10318
TVD:7374.49 Inc:90.44
Azi:89.39
VertSec:2985.86

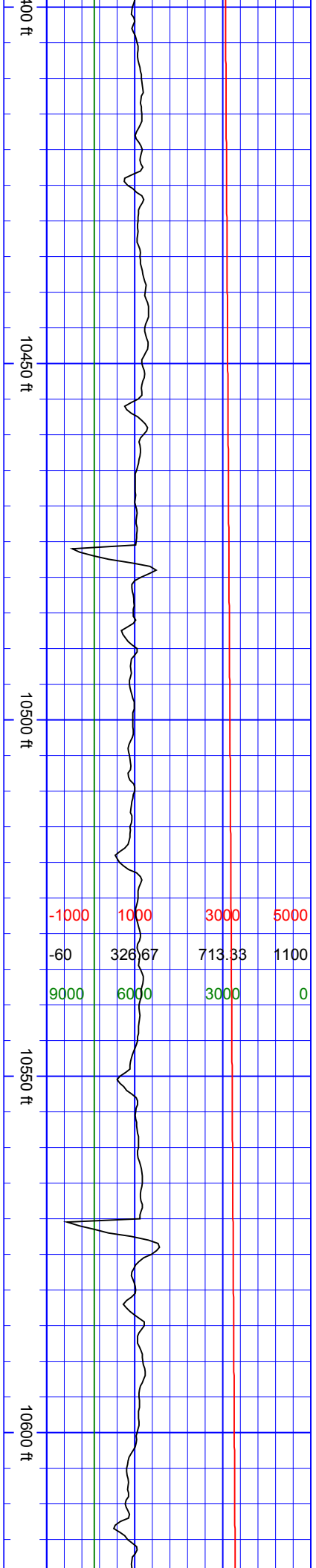


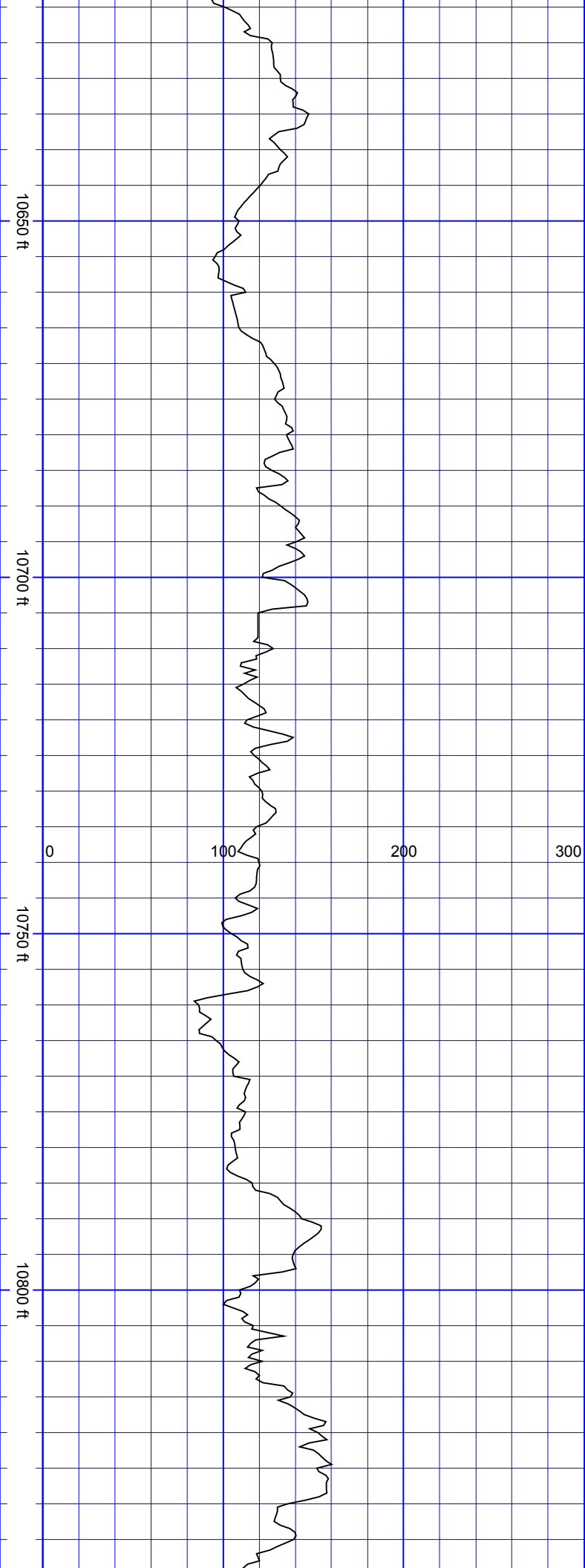


SurveyDepth:10413
TVD:7373.68 Inc:90.53
Azi:88.86
VertSec:3080.85

SurveyDepth:10507
TVD:7373.1 Inc:90.18
Azi:88.51
VertSec:3174.82

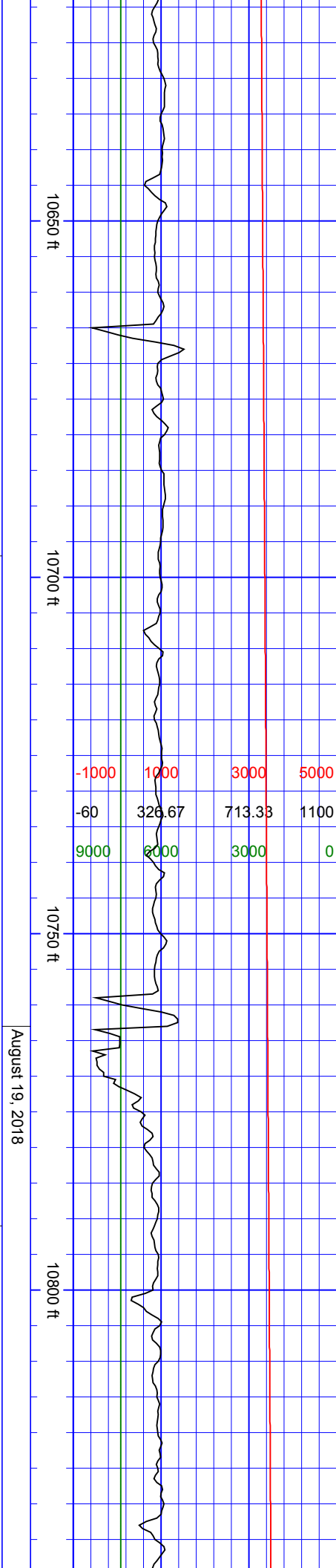
SurveyDepth:10602
TVD:7372.41 Inc:90.66
Azi:88.25
VertSec:3269.79





SurveyDepth:10697
TVD:7371.13 Inc:90.88
Azi:87.99
VertSec:3364.73

SurveyDepth:10791
TVD:7368.57 Inc:92.24
Azi:87.11
VertSec:3458.61



11100 ft

11150 ft

11200 ft

11250 ft

0 100 200 300

SurveyDepth:11075
TVD:7371.24 Inc:87.32
Azi:90.09
VertSec:3742.45

SurveyDepth:11169
TVD:7376.68 Inc:86.05
Azi:90.27
VertSec:3836.29

SSSSSSSS

SurveyDepth:11264
TVD:7382.68 Inc:86.7
Azi:90.8 VertSec:3931.1

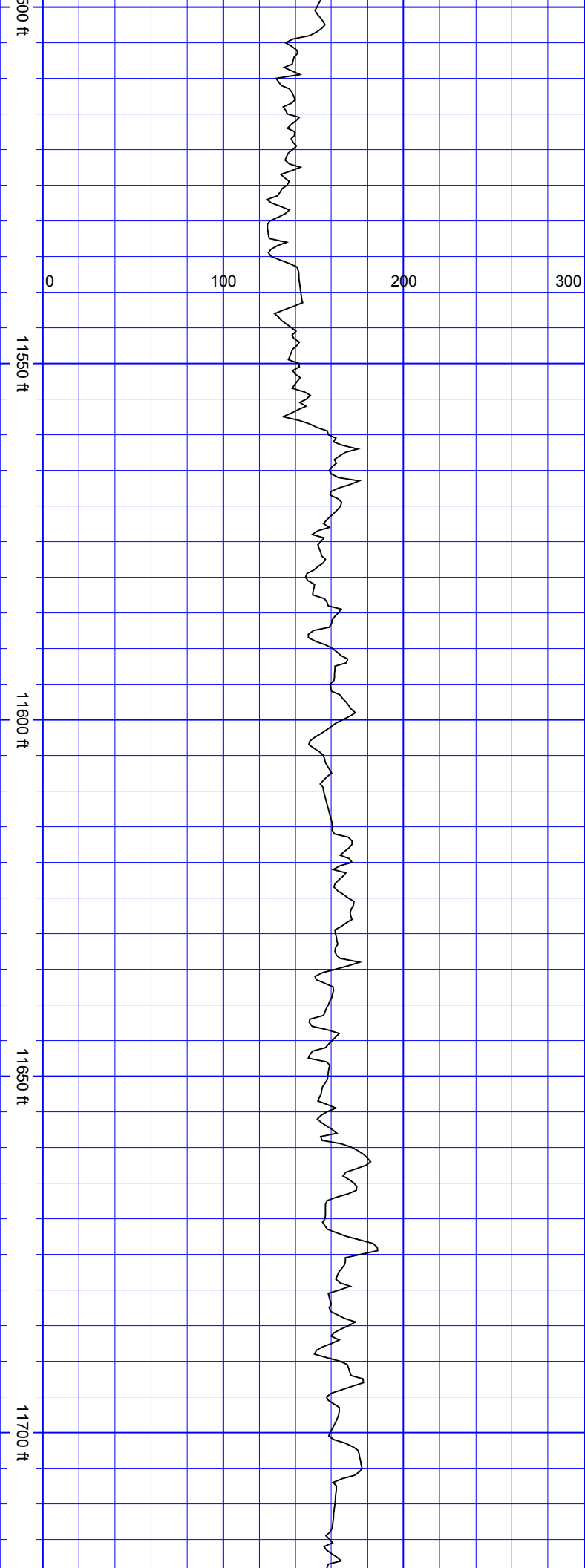
11100 ft

11150 ft

11200 ft

11250 ft

-1000	1000	3000	5000
-60	326.67	713.33	1100
9000	6060	3000	0



SurveyDepth:11549
TVD:7383.38 Inc:91.23
Azi:90.45 VertSec:4216

SurveyDepth:11643
TVD:7381.72 Inc:90.79
Azi:90.45
VertSec:4309.98

