



Build & Lateral

Job #:

185241

Well ID:

16190870

Scale:

5" = 100 ft

Type:

MD

Well Site Information

Oil Company

Crestone Peak Resources

Surface Location

S25-T1N-R66W

Well Name

Sam 3B-25H-M166

API

05-123-46128-00

Field

DJ Basin

State

Colorado

Country

USA

Surface Coordinates

Well Type

Horizontal

Latitude

40° 1' 8 N

Longitude

140° 44' 2 W

N / S Coordinates

1,250,646.54 usft

E / W Coordinates

3,214576.78 usft

Azimuth Reference

True North

Grid Convergence

0.51°

MWD Engineers

Lead Hand

Aaron Clark

Second Hand

Riley Rasmussen

Perm Datum

Ground

Elevation

5,086.00 ft

Log depth measured from KB is

23.00 ft

above perm datum.

KB = 5,109.00 ft

Total Depth

12,115.00 ft

Spud Date

Aug/13/2018

End Date

Aug/14/2018

(MD) Log Interval

Start Depth

2,369.76 ft

End Depth

12,115.28 ft

Bore Hole Record

Hole Size

From

To

13.50 in

0.00 ft

2,428.00 ft

8.50 in

2,428.00 ft

12,115.00 ft

Casing Record

Type

Size

WGT

From

To

LT&C

9.63 in

40lb.

0.00 ft

2,427.00 ft

DWC/C-I-S

5.50 in

20lb.

0.00 ft

12,115.00 ft

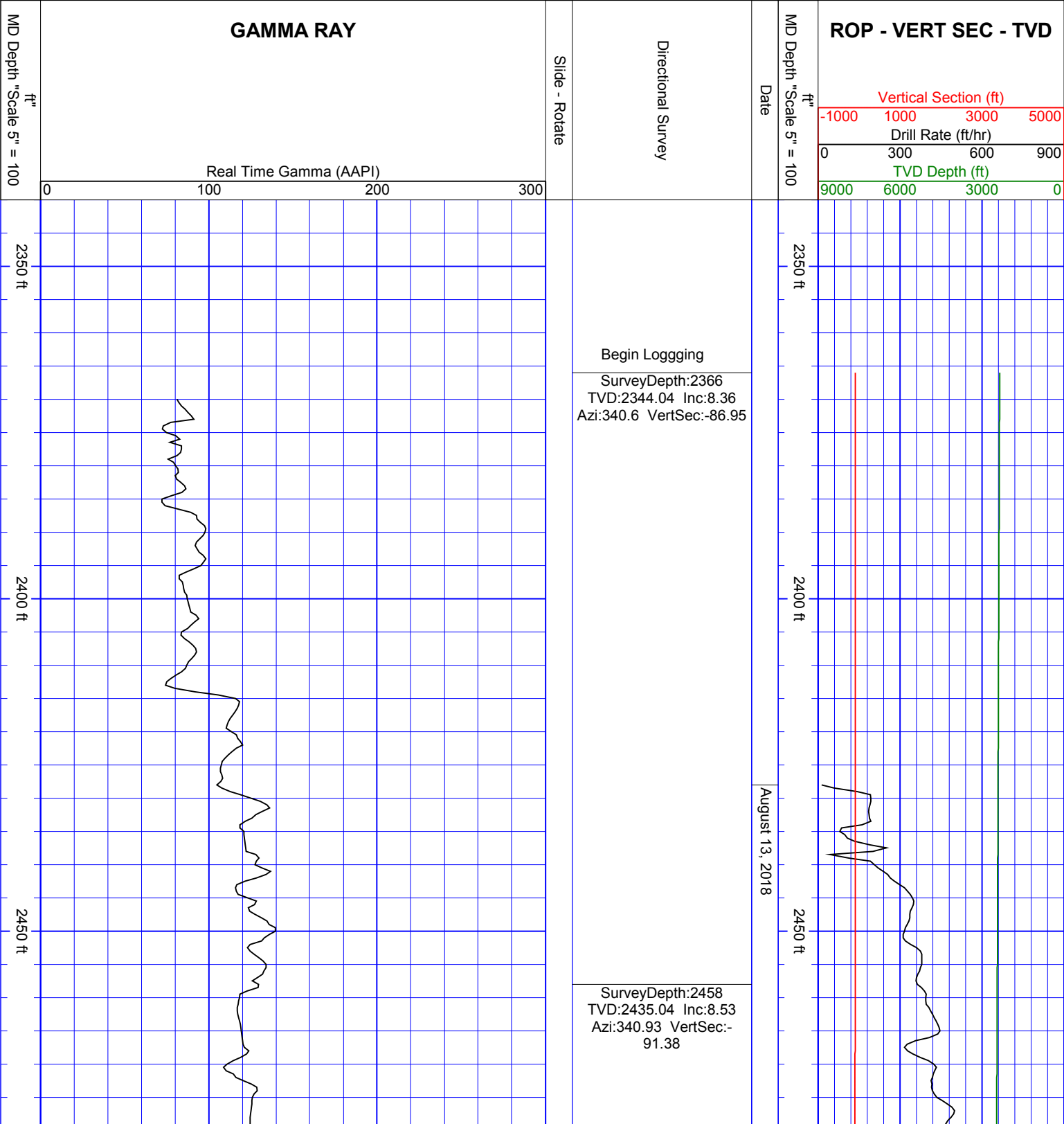
Run Data

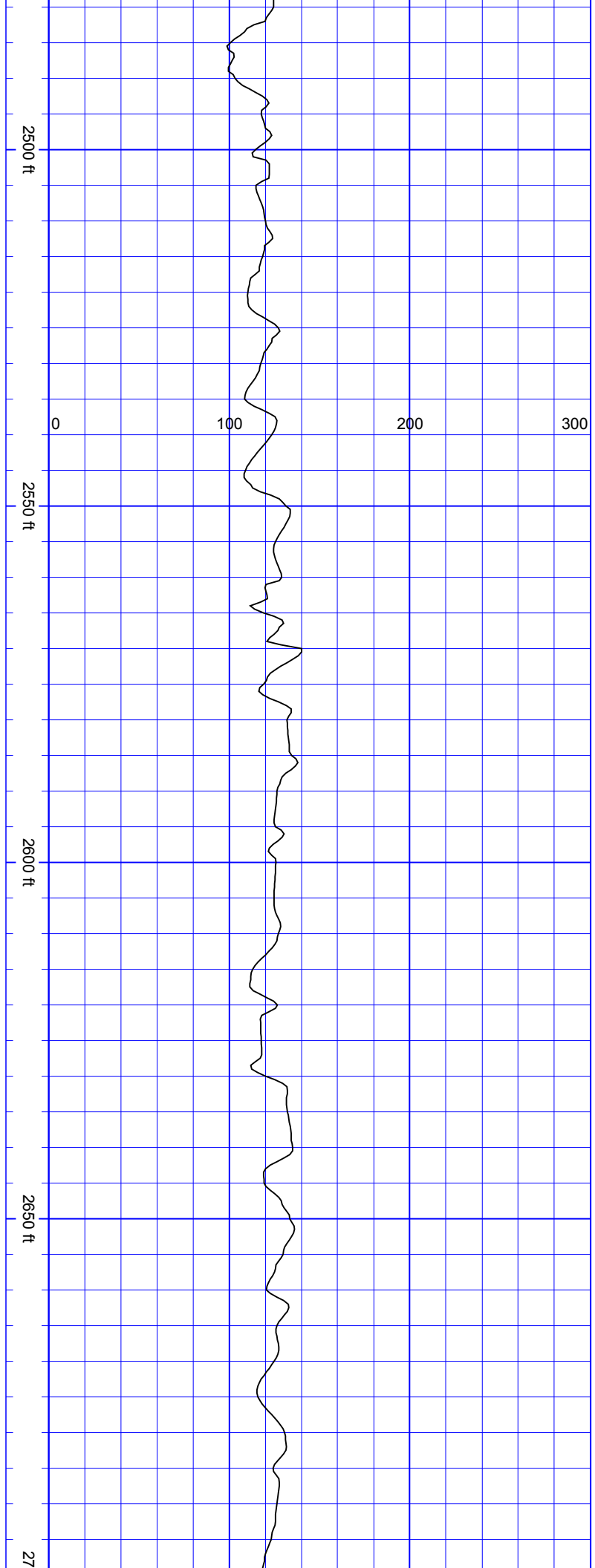
Bit Run Number	1				
Start Date & Time	Aug/13/2018 08:00:00				
End Date & Time	Aug/15/2018 15:00:00				
Run Hours	57.50				
Depth In	2,428.00 ft				
Depth Out	12,115.00 ft				
Total Gamma Correction	5.24				
Gamma to Bit	58.45 ft				
Resistivity to Bit	N/A				
Mud Type	Oil Base				
Density	9.60 ppg				
Viscosity	53.00 sec/qt				
PH	N/A				
Fluid Loss	N/A				
K+ ppm	N/A				
CL- ppm	32,500.00 mg/L				
Max Mud Temp	239.00 °F				
Mud Report Depth	9,800.00 ft				

Remarks

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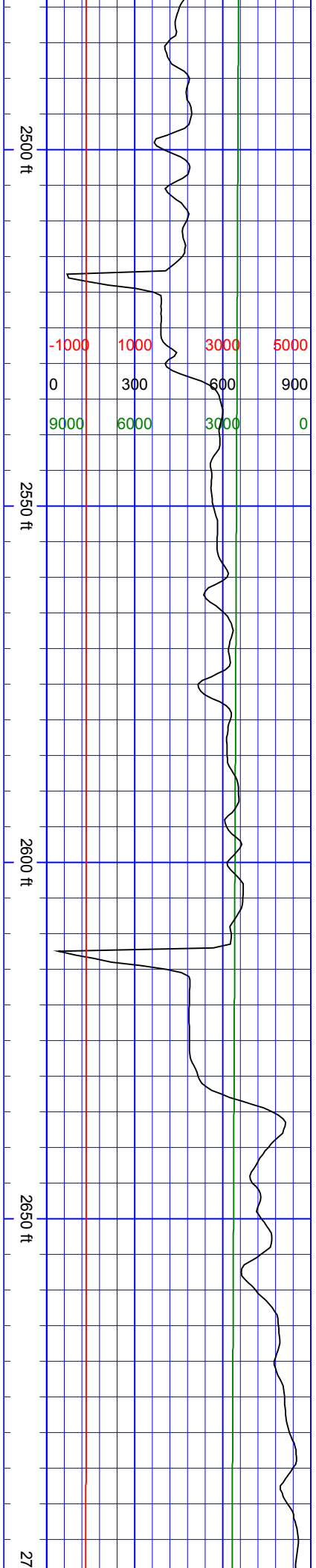
Interpretations of this data by Cathedral Energy Services will be of best judgment as to correctness. Cathedral Energy Services cannot and does not guarantee the accuracy or correctness of interpretations or any surveys derived therefrom. Cathedral Energy Services makes no warranties of performance,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

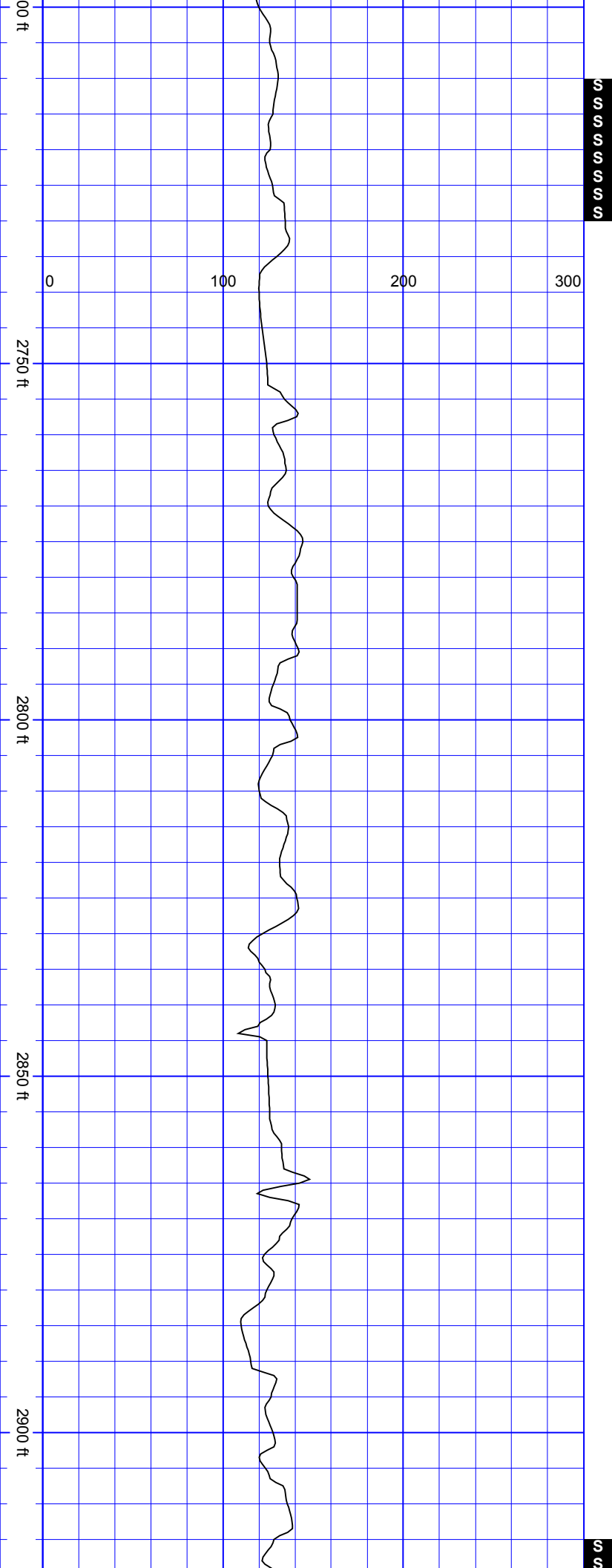




SurveyDepth:2552
TVD:2528.09 Inc:7.78
Azi:338.74 VertSec:-95.95

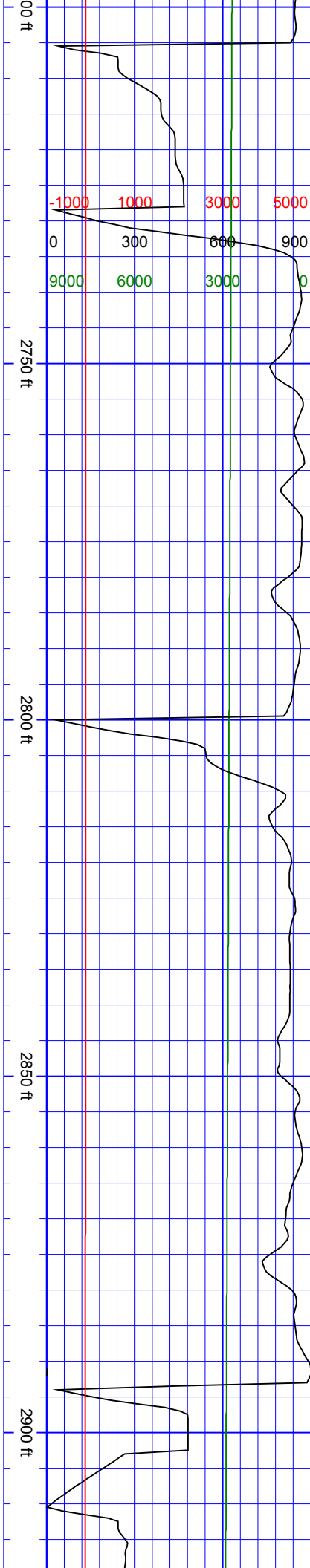
SurveyDepth:2646
TVD:2621.34 Inc:6.72
Azi:335.92 VertSec:-100.49

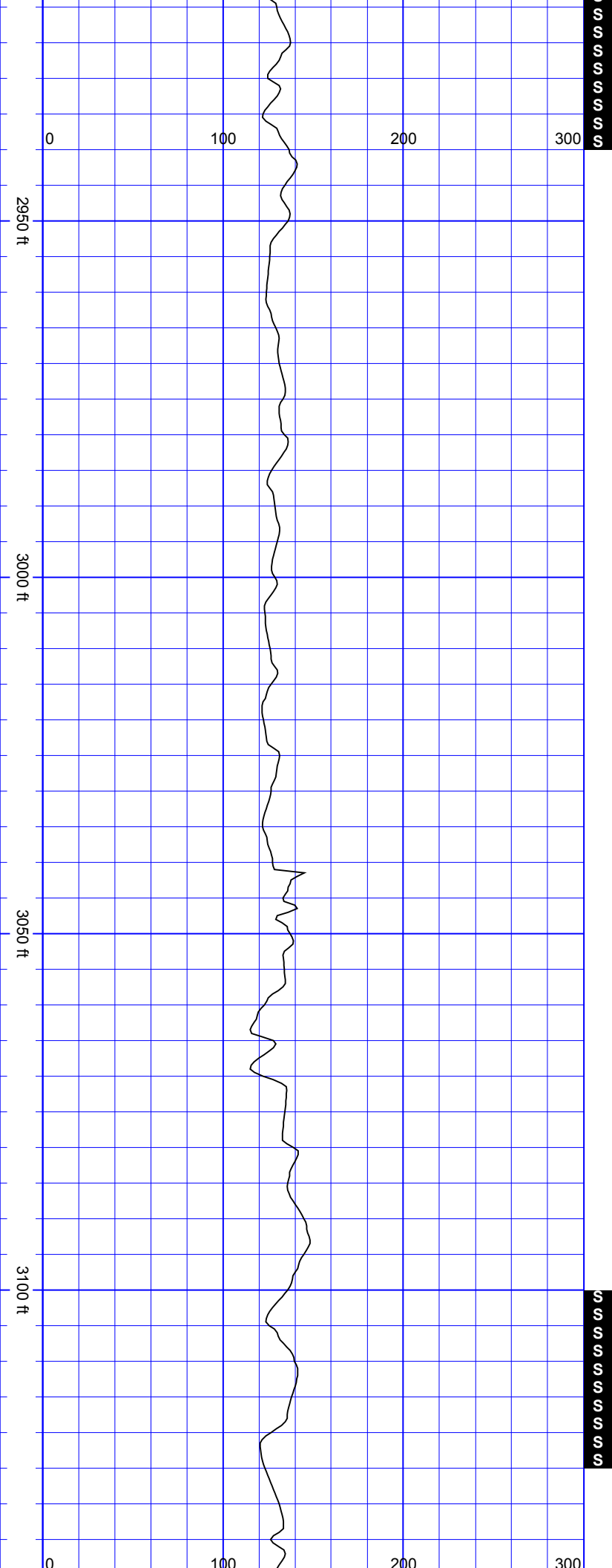




SurveyDepth:2741
TVD:2715.54 Inc:8.13
Azi:335.13 VertSec:-
105.56

SurveyDepth:2846
TVD:2819.6 Inc:7.21
Azi:331 VertSec:-111.86

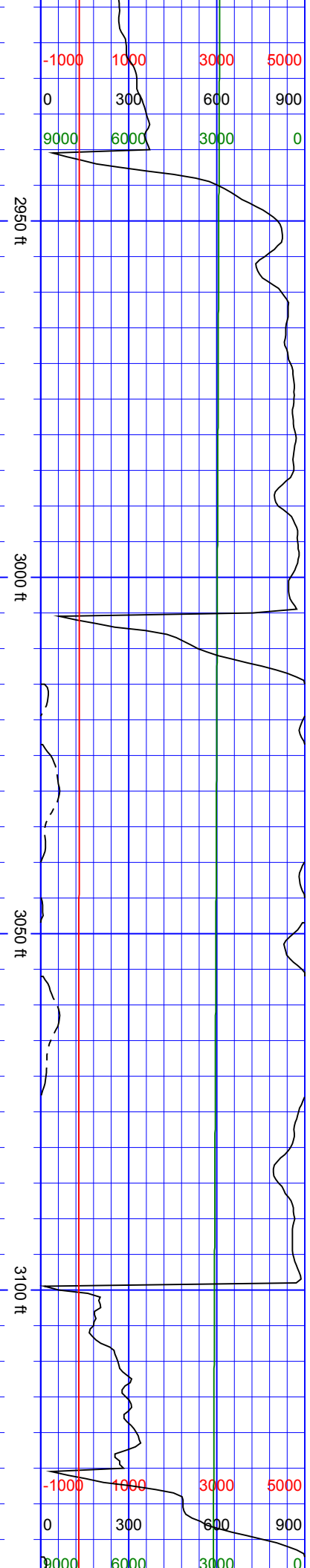


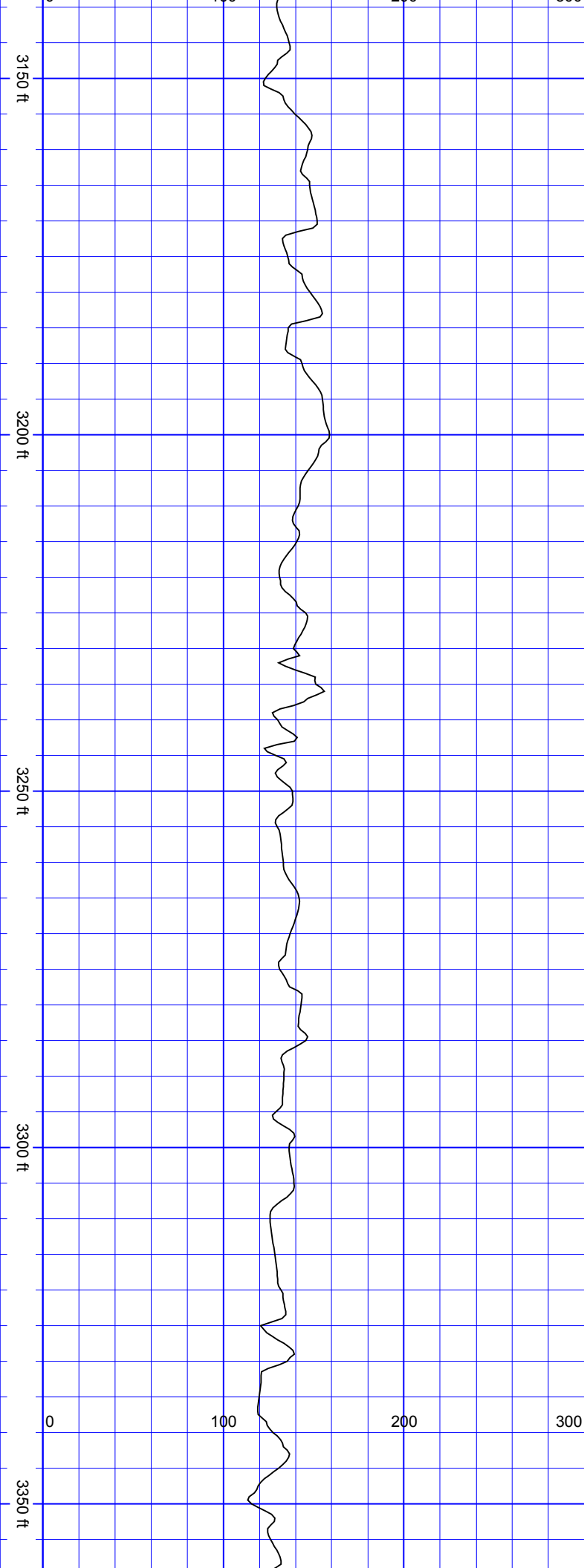


SurveyDepth:2941
TVD:2913.55 Inc:9.8
Azi:337.07 VertSec:-
117.89

SurveyDepth:3035
TVD:3006.29 Inc:8.97
Azi:336.36 VertSec:-
123.92

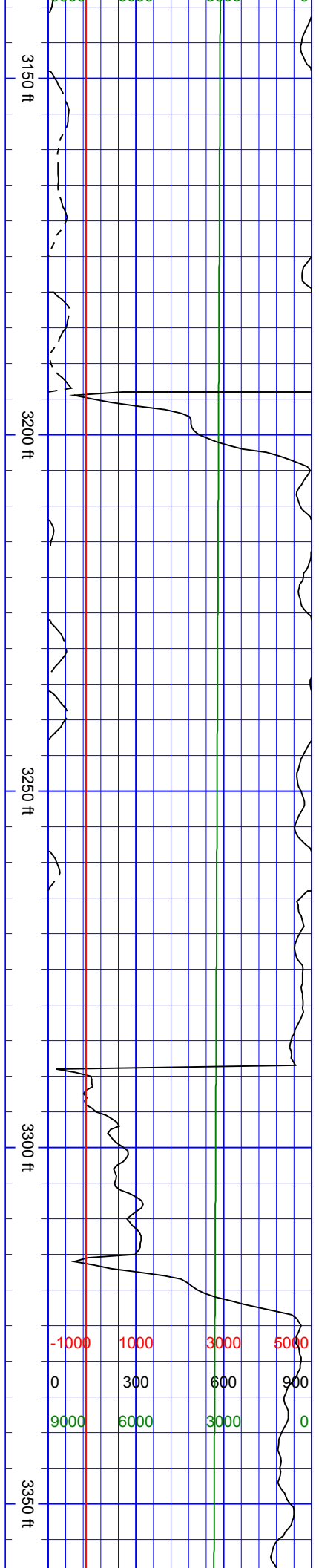
SurveyDepth:3130
TVD:3100.15 Inc:8.92
Azi:352.1 VertSec:-
127.89

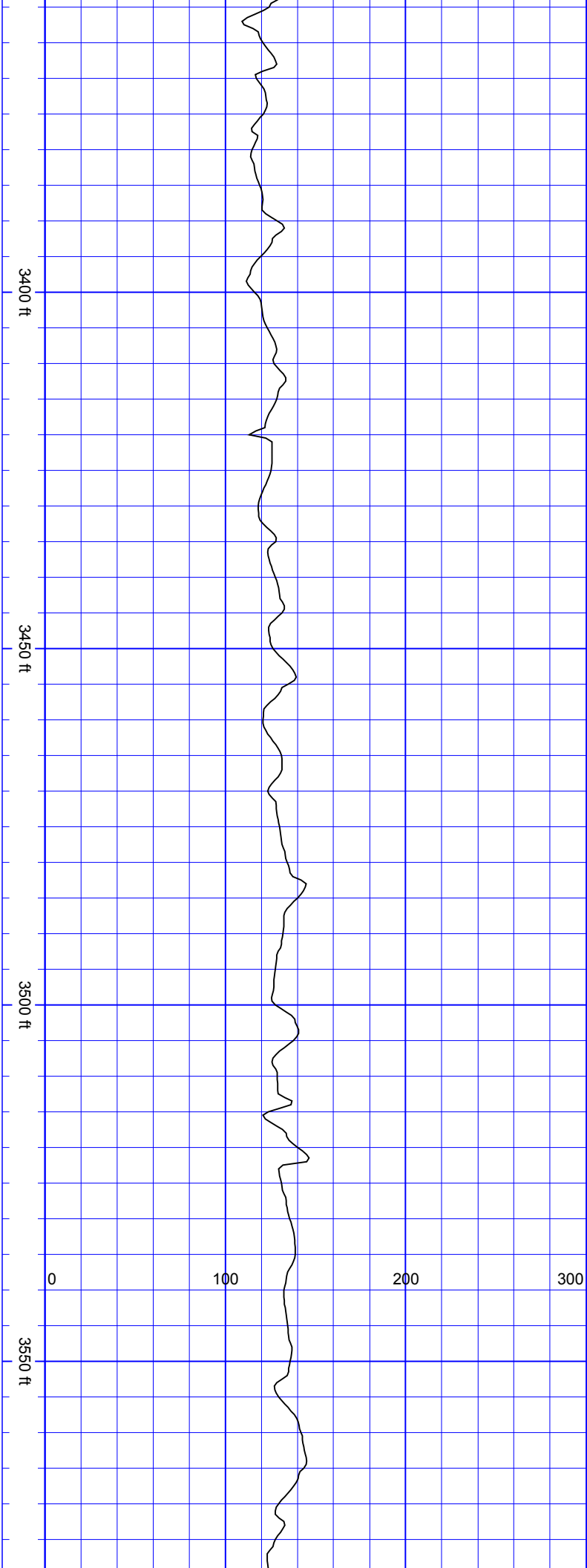




SurveyDepth:3224
TVD:3193.16 Inc:7.69
Azi:347.09 VertSec:-
130.27

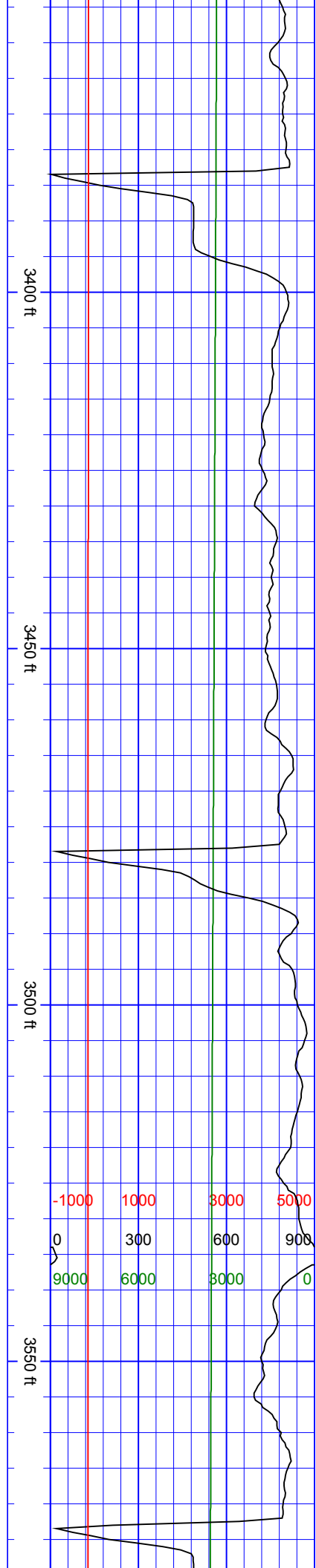
SurveyDepth:3319
TVD:3286.99 Inc:10.33
Azi:354.21 VertSec:-
132.53

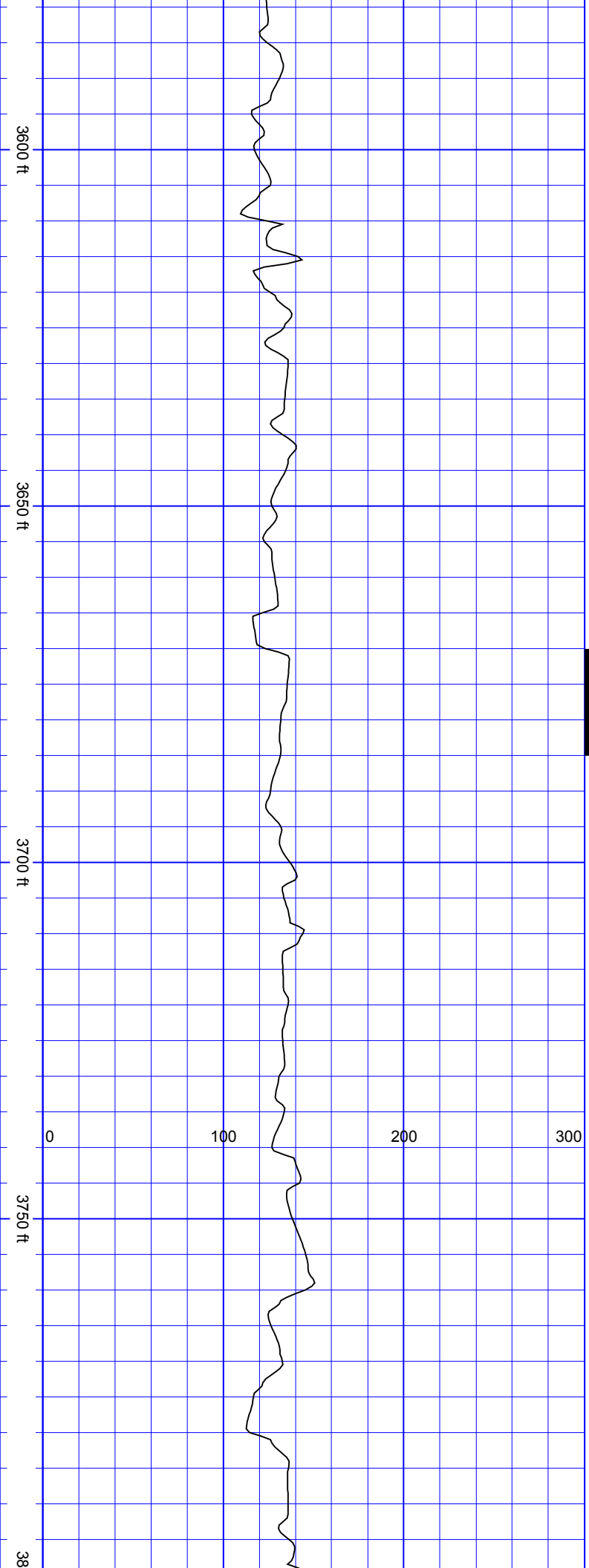




SurveyDepth:3413
TVD:3379.51 Inc:9.98
Azi:351.74 VertSec:-
134.53

SurveyDepth:3509
TVD:3474.18 Inc:9.1
Azi:348.84 VertSec:-
137.17



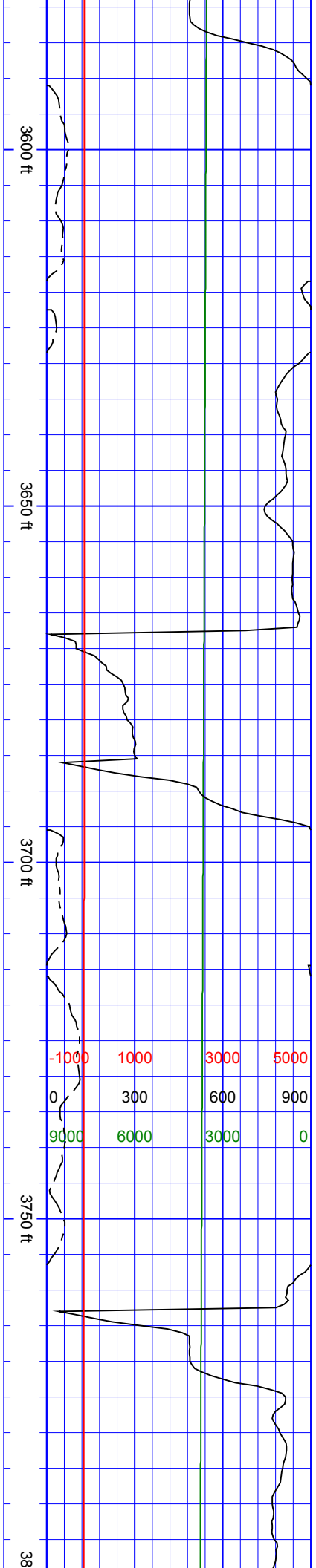


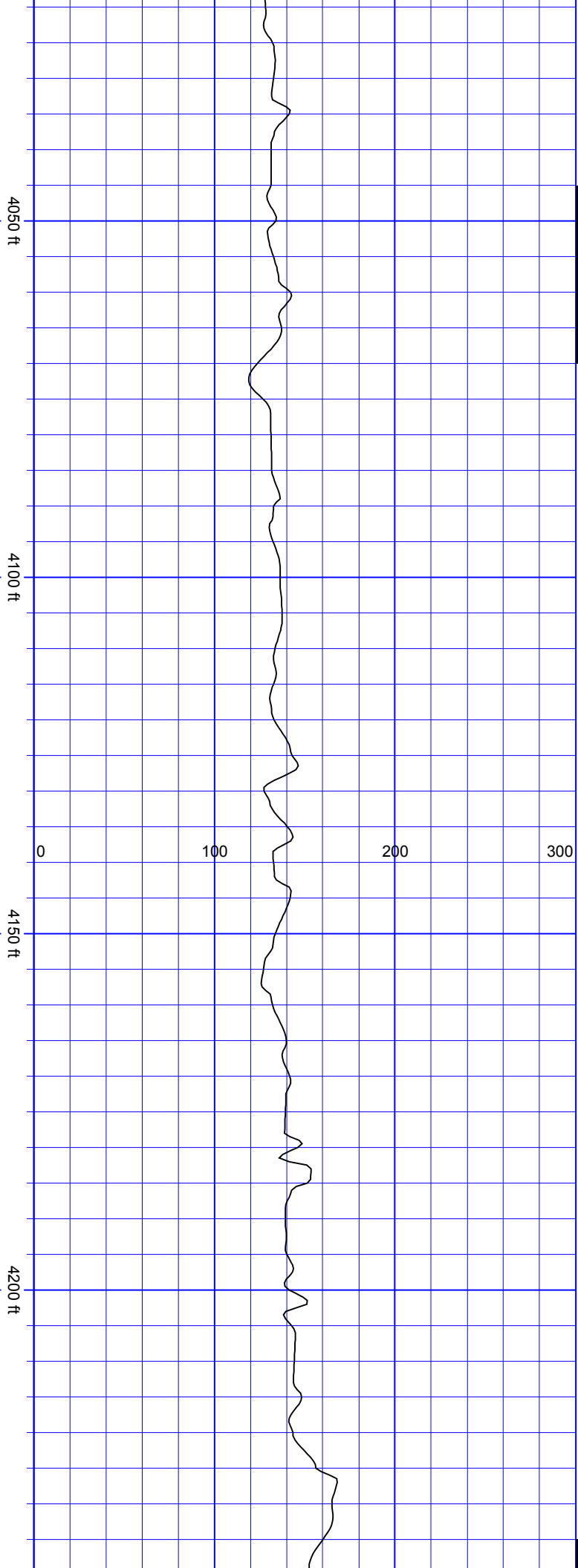
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SurveyDepth:3604
TVD:3568.09 Inc:8.35
Azi:343.75 VertSec:-
140.54

SurveyDepth:3698
TVD:3660.96 Inc:9.4
Azi:336.72 VertSec:-
145.46

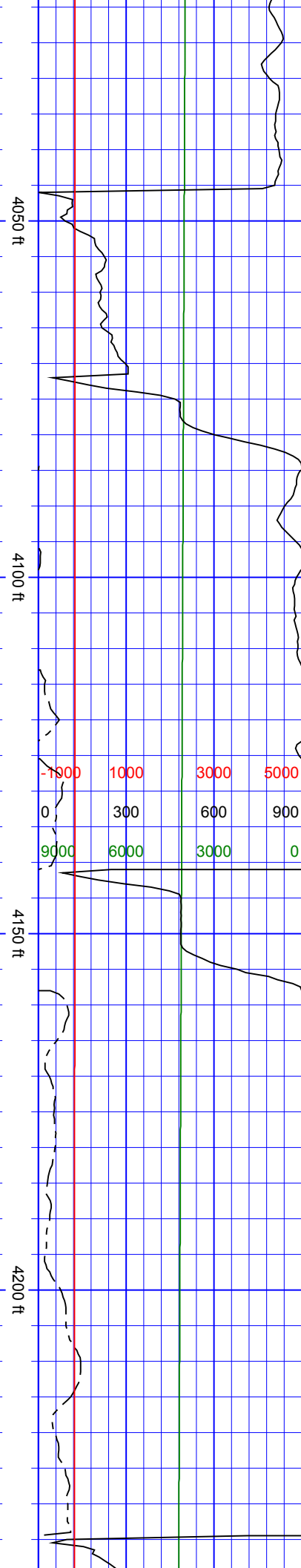
SurveyDepth:3792
TVD:3753.84 Inc:8.31
Azi:329.68 VertSec:-

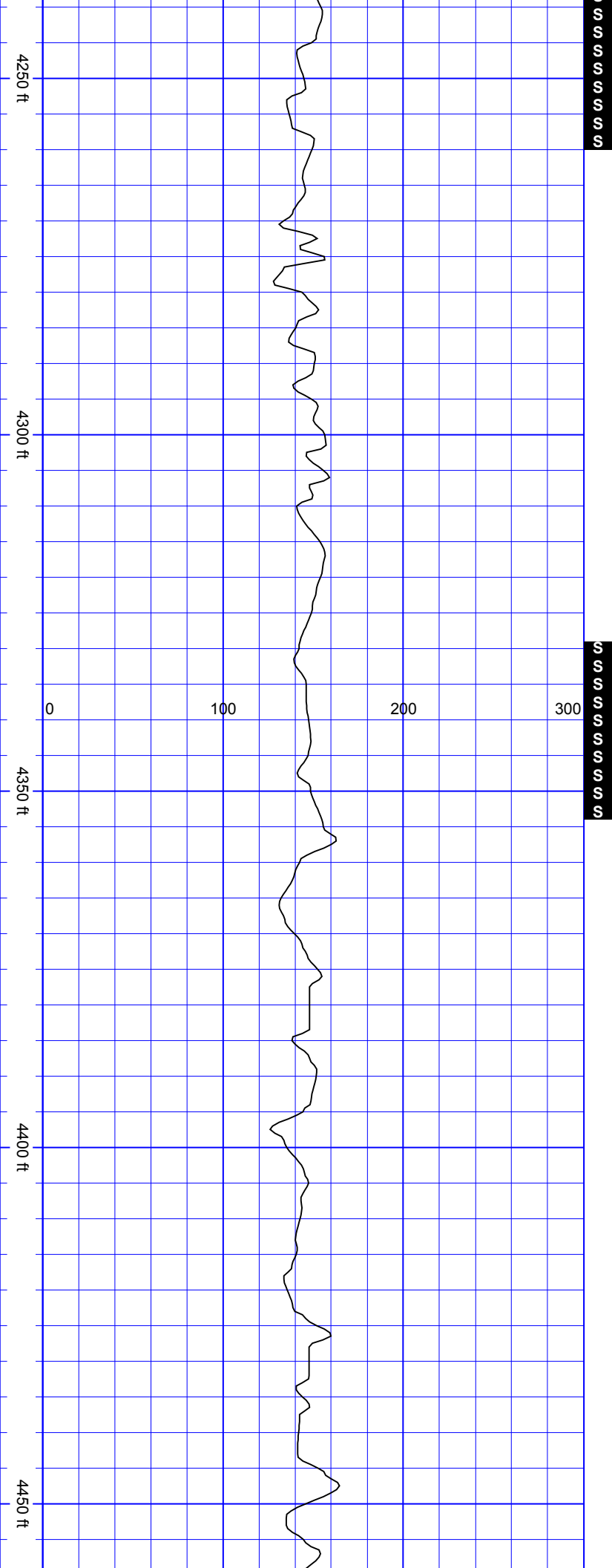




SurveyDepth:4076
TVD:4034.8 Inc:9.14
Azi:349.99 VertSec:-
164.79

SurveyDepth:4171
TVD:4128.79 Inc:7.56
Azi:345.59 VertSec:-
167.64

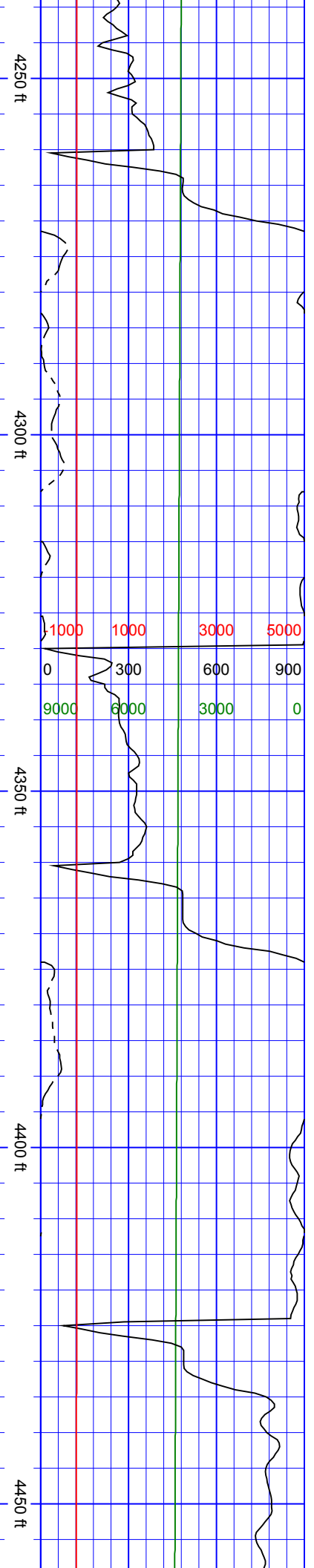




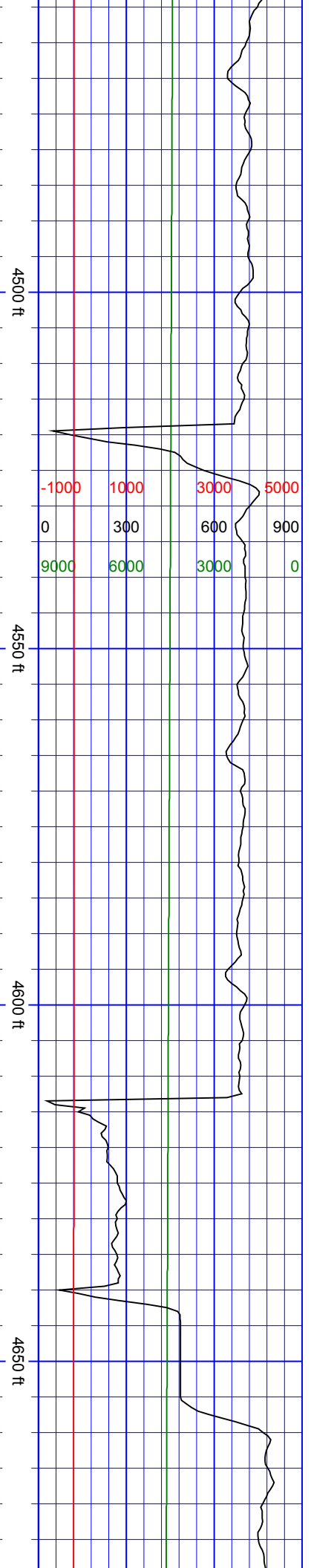
SurveyDepth:4265
TVD:4221.88 Inc:8.39
Azi:349.2 VertSec:-
170.44

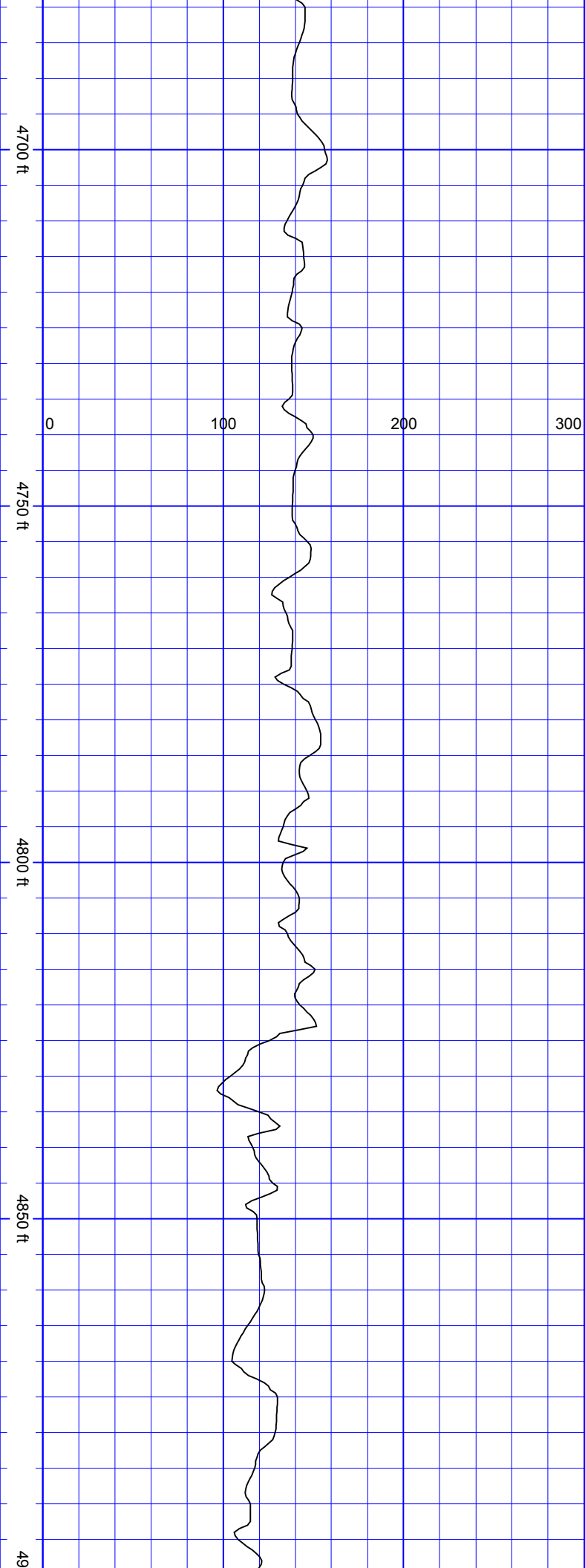
SurveyDepth:4360
TVD:4315.63 Inc:10.2
Azi:342.08 VertSec:-
174.31

SurveyDepth:4455
TVD:4409.3 Inc:9.01

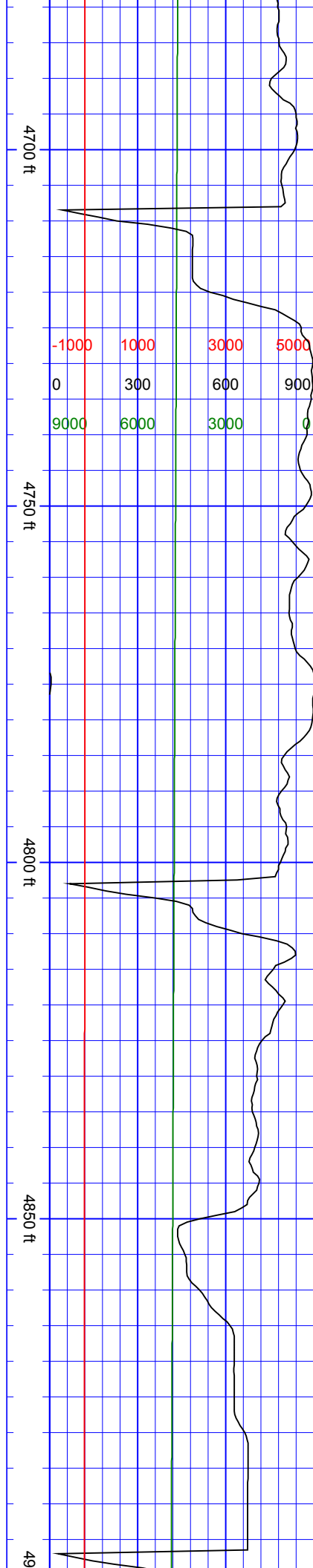


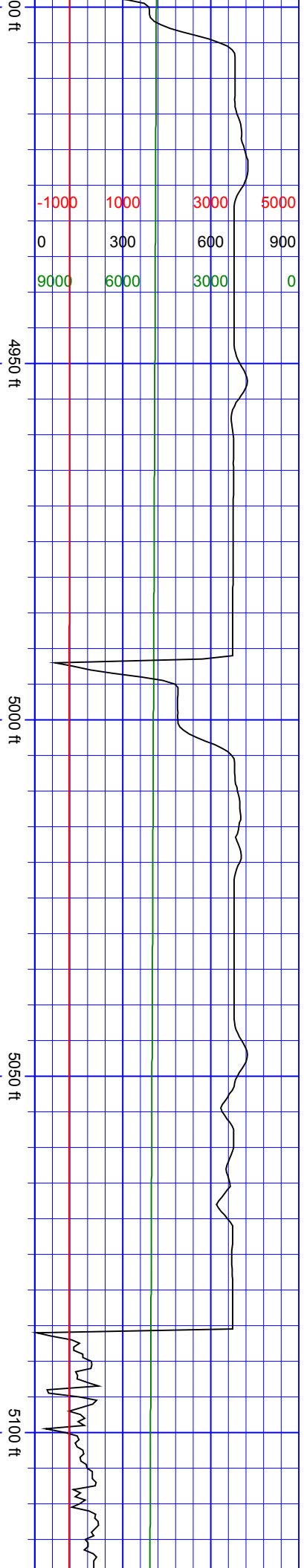
SurveyDepth:4644
TVD:4595.91 Inc:10.64
Azi:343.66 VertSec:-
189.89





SurveyDepth:4738 TVD:4688.45 Inc:9.54 Azi:341.02 VertSec:-194.85	SurveyDepth:4832 TVD:4781.18 Inc:9.36 Azi:335.84 VertSec:-200.49
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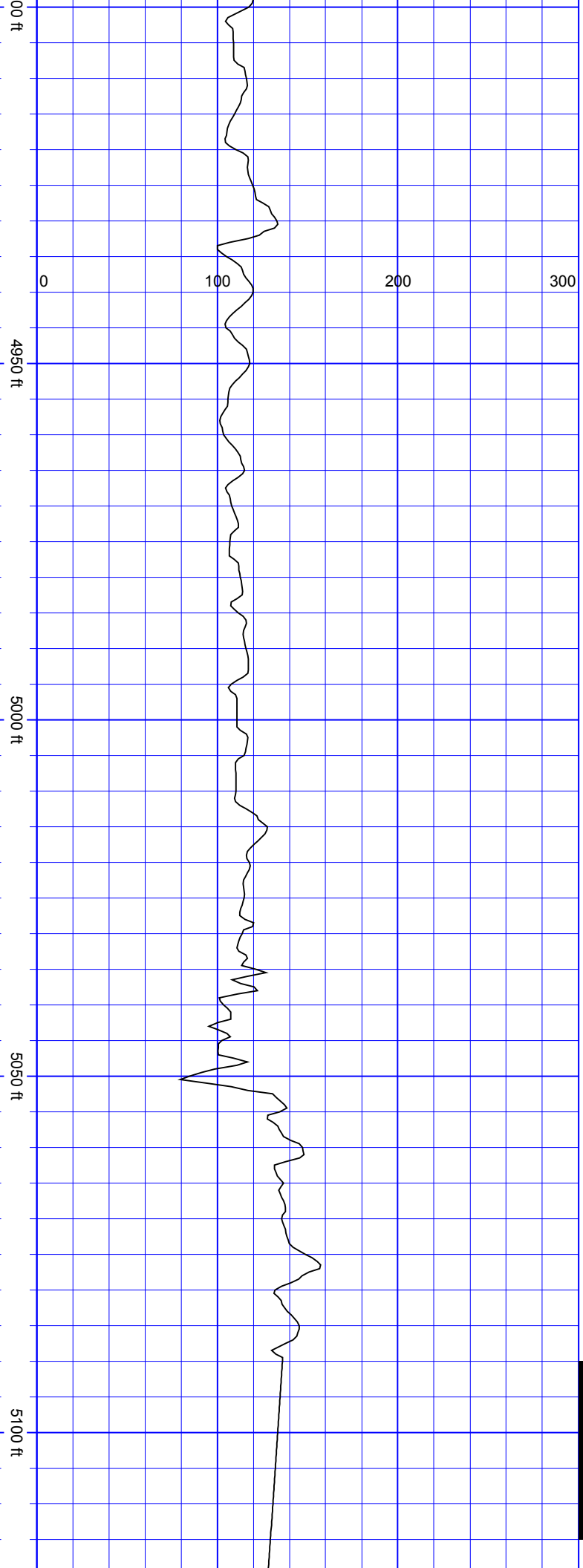


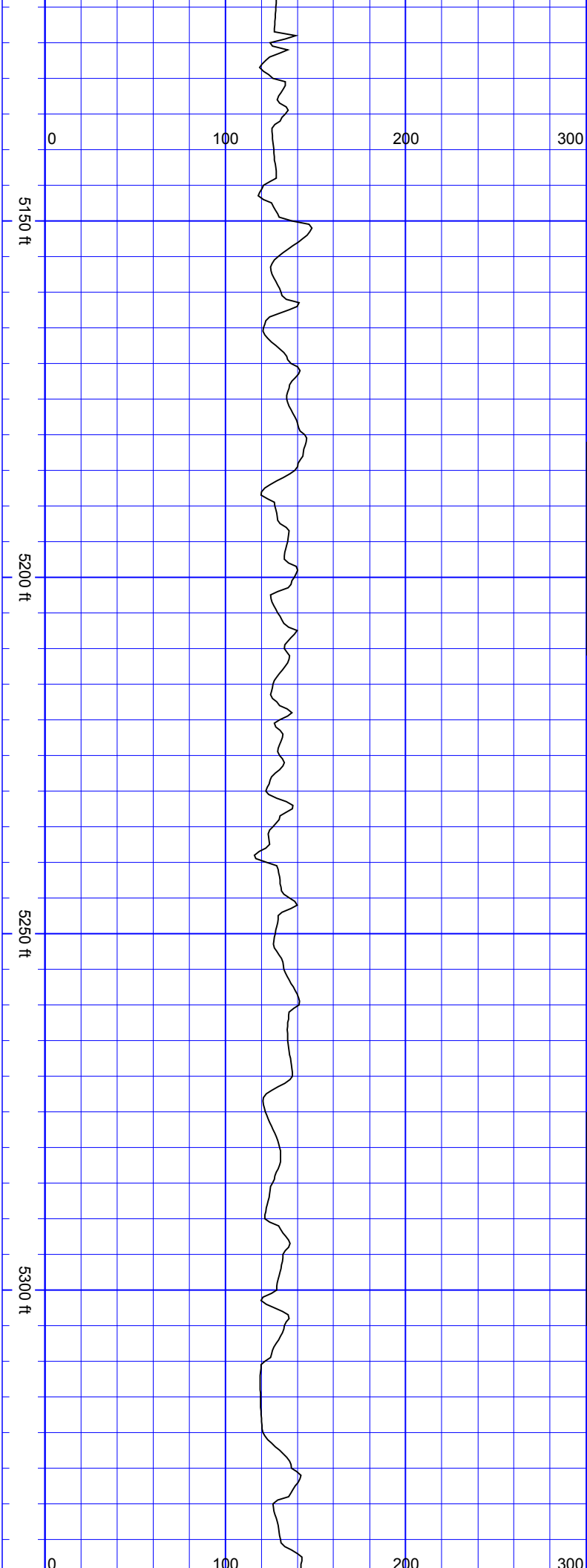
August 14, 2018

SurveyDepth:4927
TVD:4874.97 Inc:8.92
Azi:334.43 VertSec:-
206.81

SurveyDepth:5022
TVD:4968.9 Inc:8.35
Azi:332.5 VertSec:-
213.16

SurveyDepth:5117

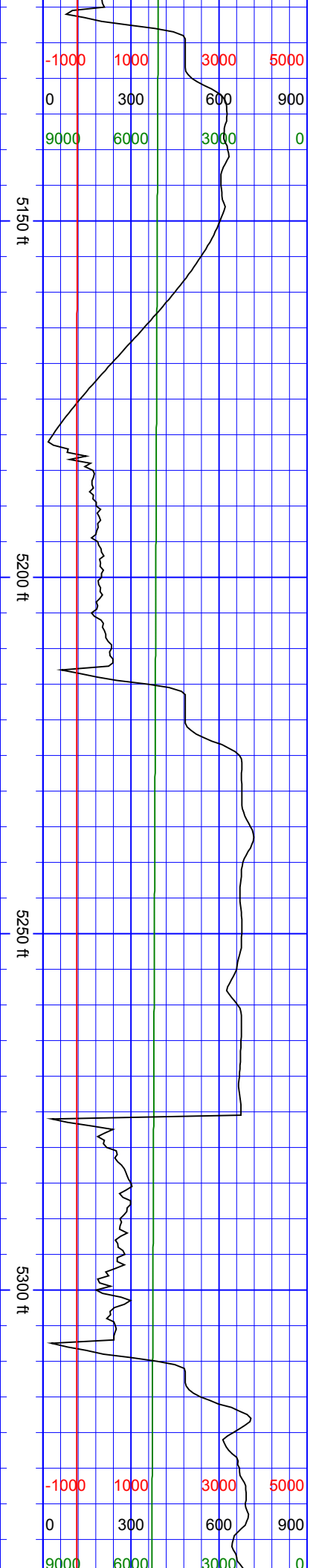


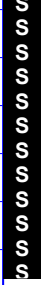
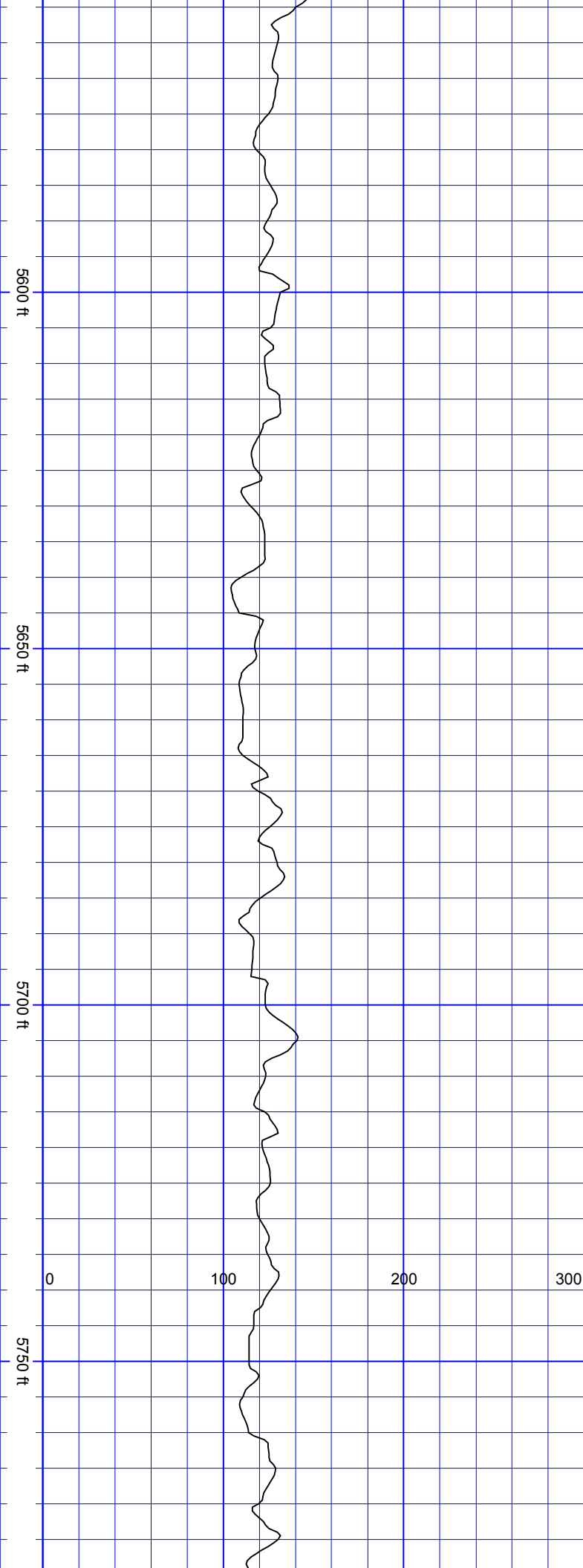


TVD:5063.13 Inc:6.15
Azi:330.74 VertSec:-
218.81

SurveyDepth:5211
TVD:5156.26 Inc:9.32
Azi:333.99 VertSec:-
224.6

SurveyDepth:5306
TVD:5250.12 Inc:8.57
Azi:345.5 VertSec:-
229.73

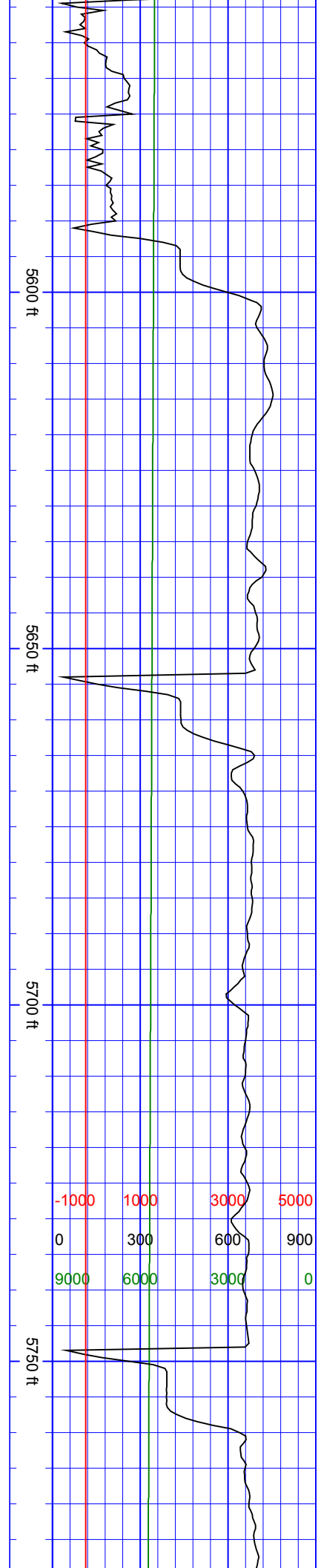


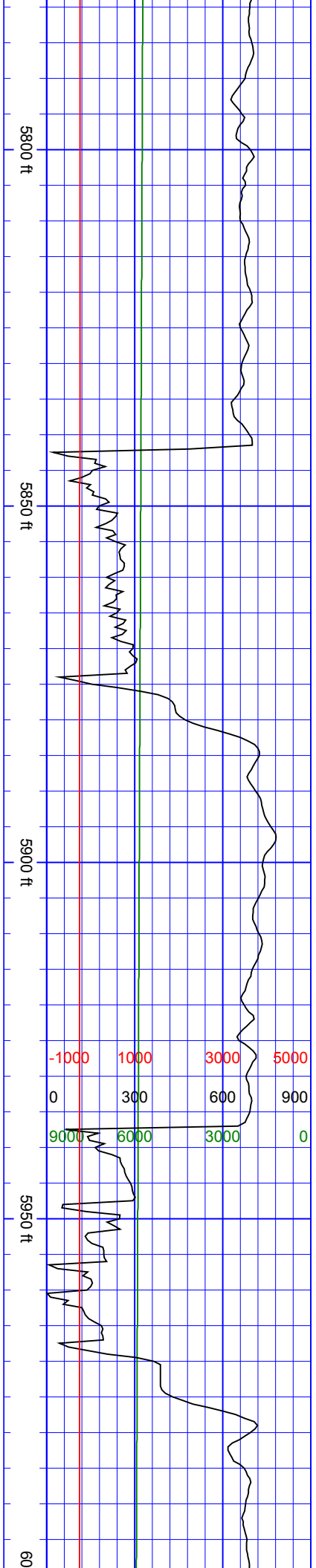
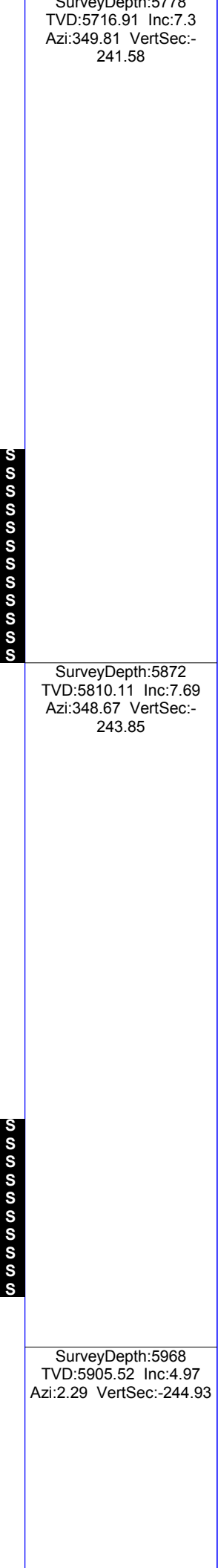
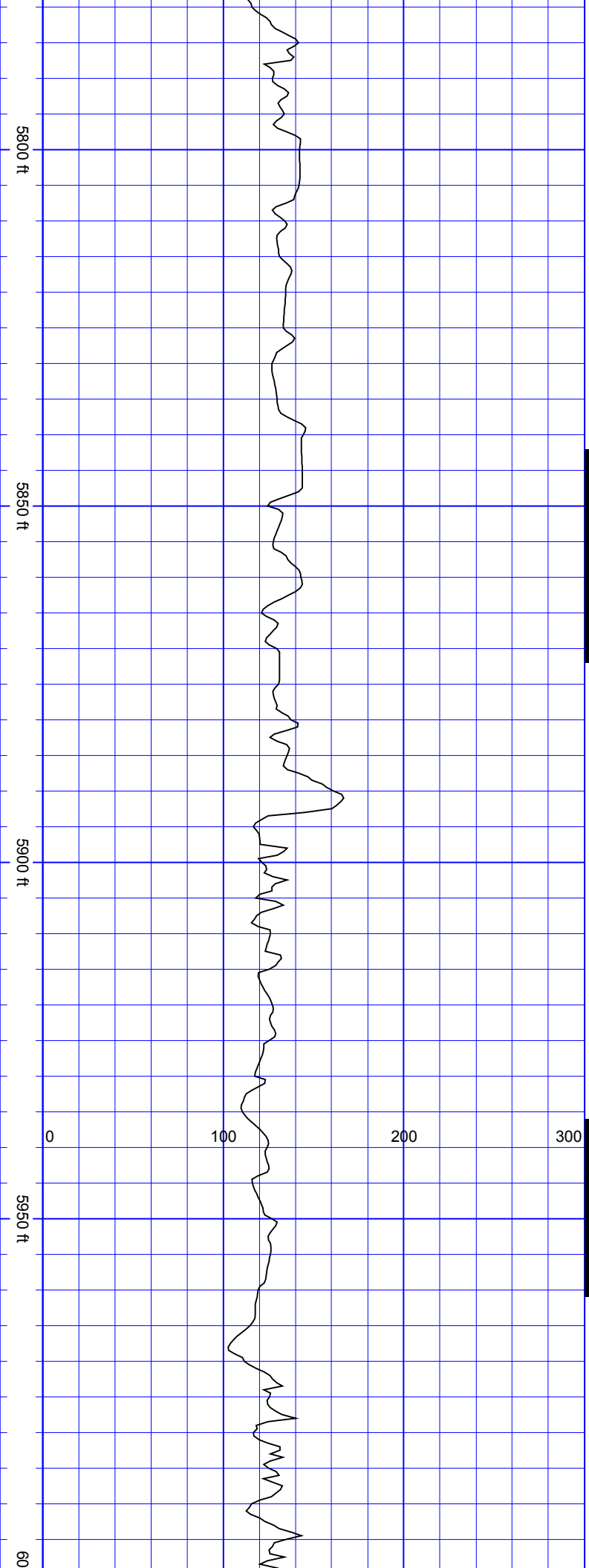


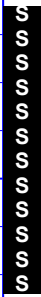
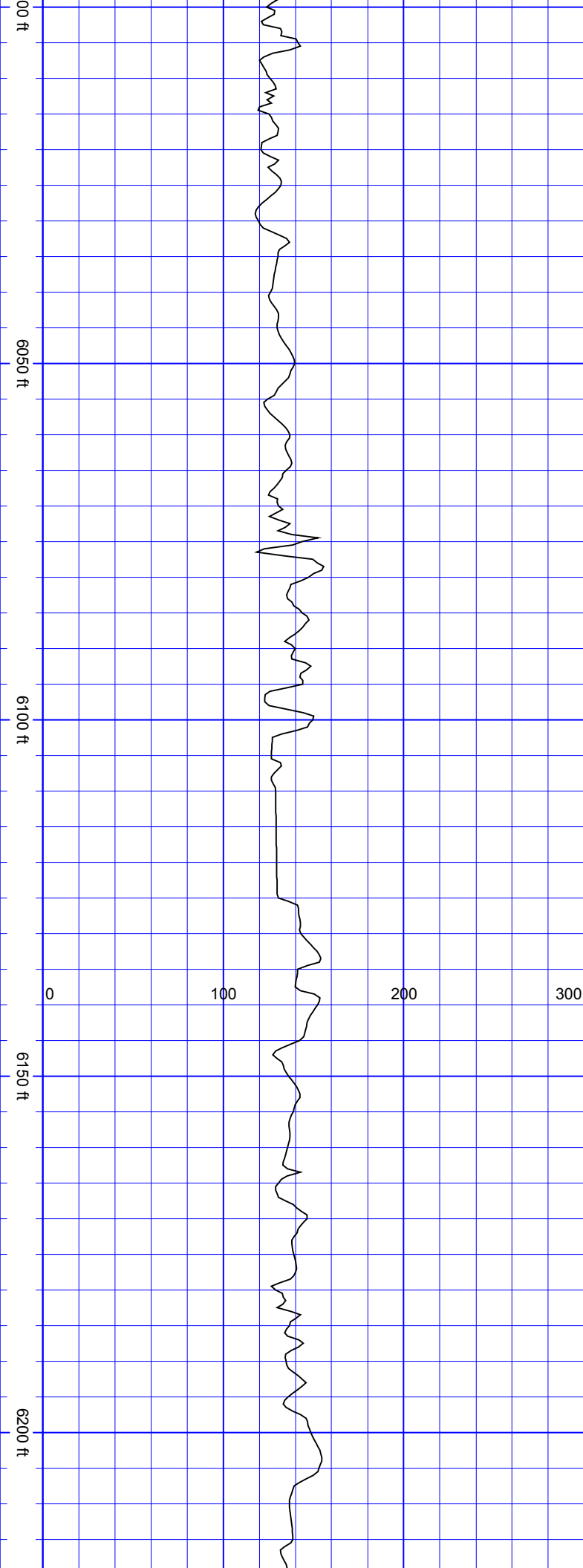
SurveyDepth:5589
TVD:5530.1 Inc:9.67
Azi:355.88 VertSec:-
238.24

SurveyDepth:5684
TVD:5623.86 Inc:8.92
Azi:353.15 VertSec:-
239.67

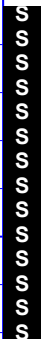
SurveyDepth:5779



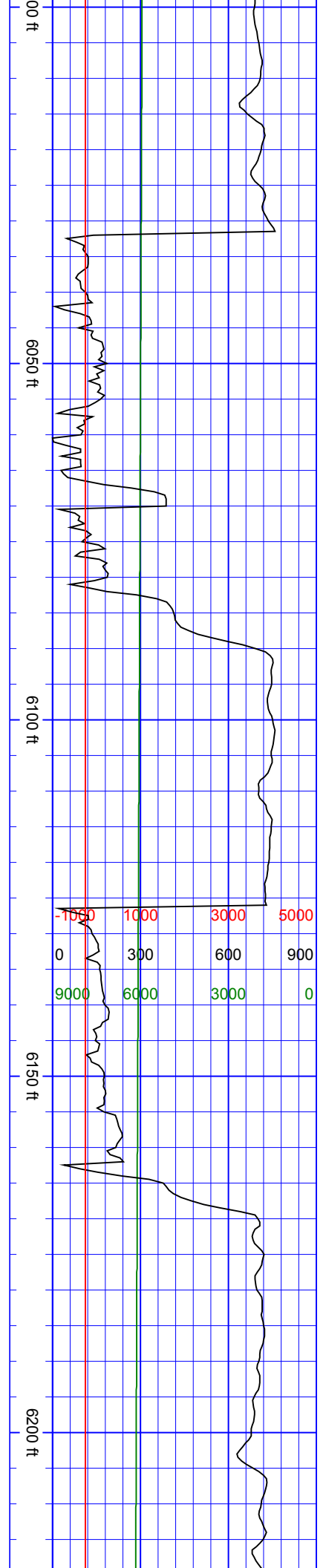


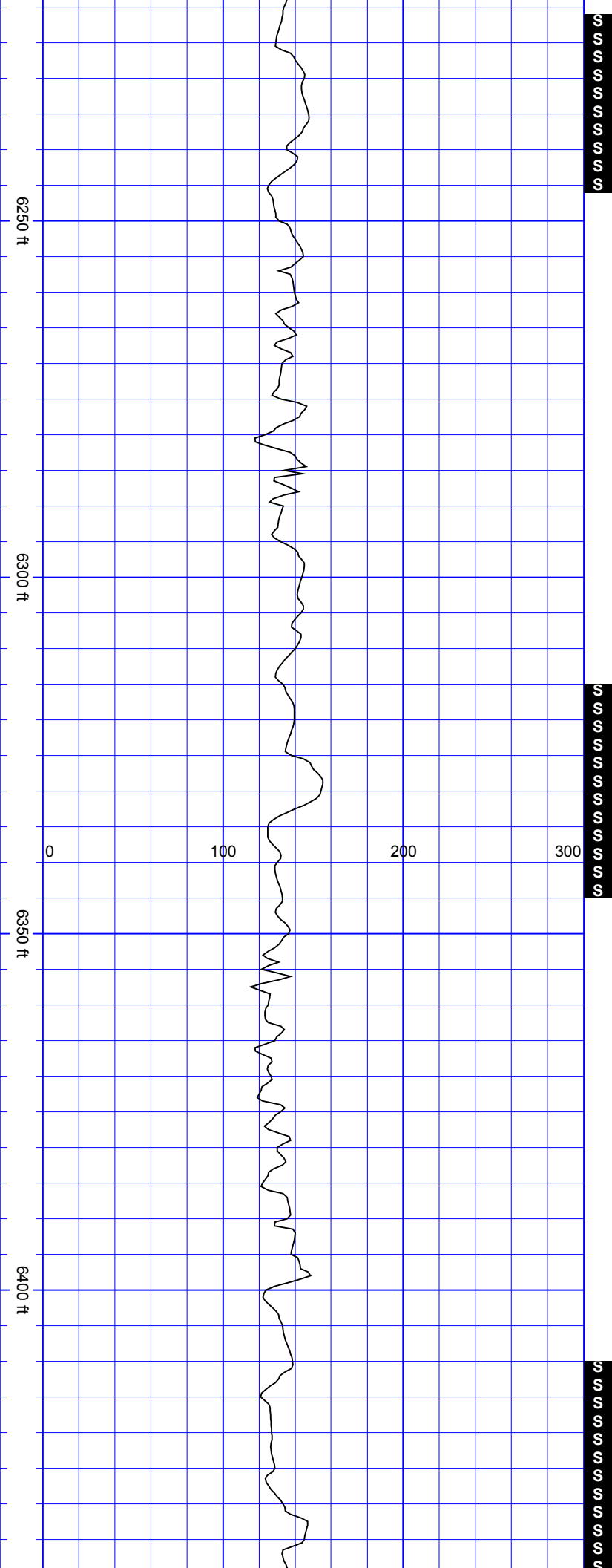


SurveyDepth:6062
TVD:5999.1 Inc:5.85
Azi:3.43 VertSec:-244.47



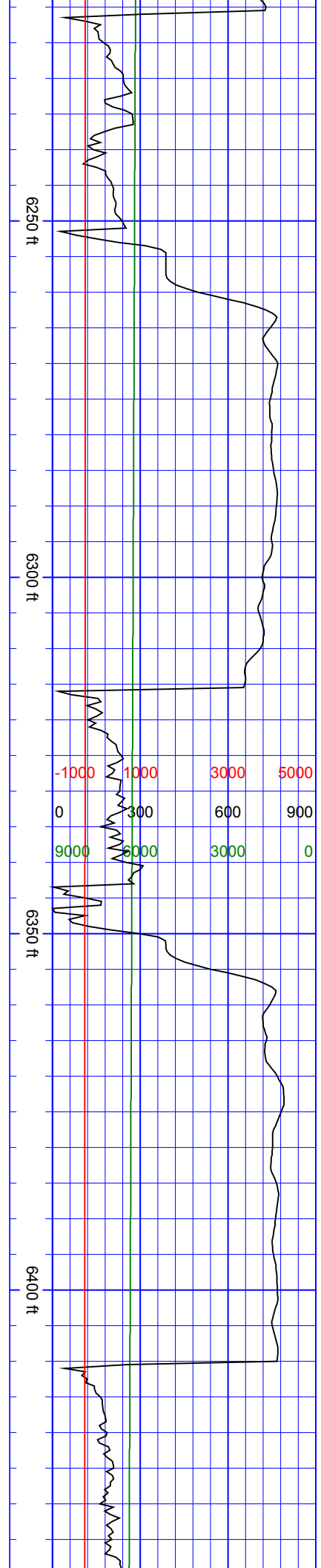
SurveyDepth:6157
TVD:6093.4 Inc:8.22
Azi:339.7 VertSec:-246.52

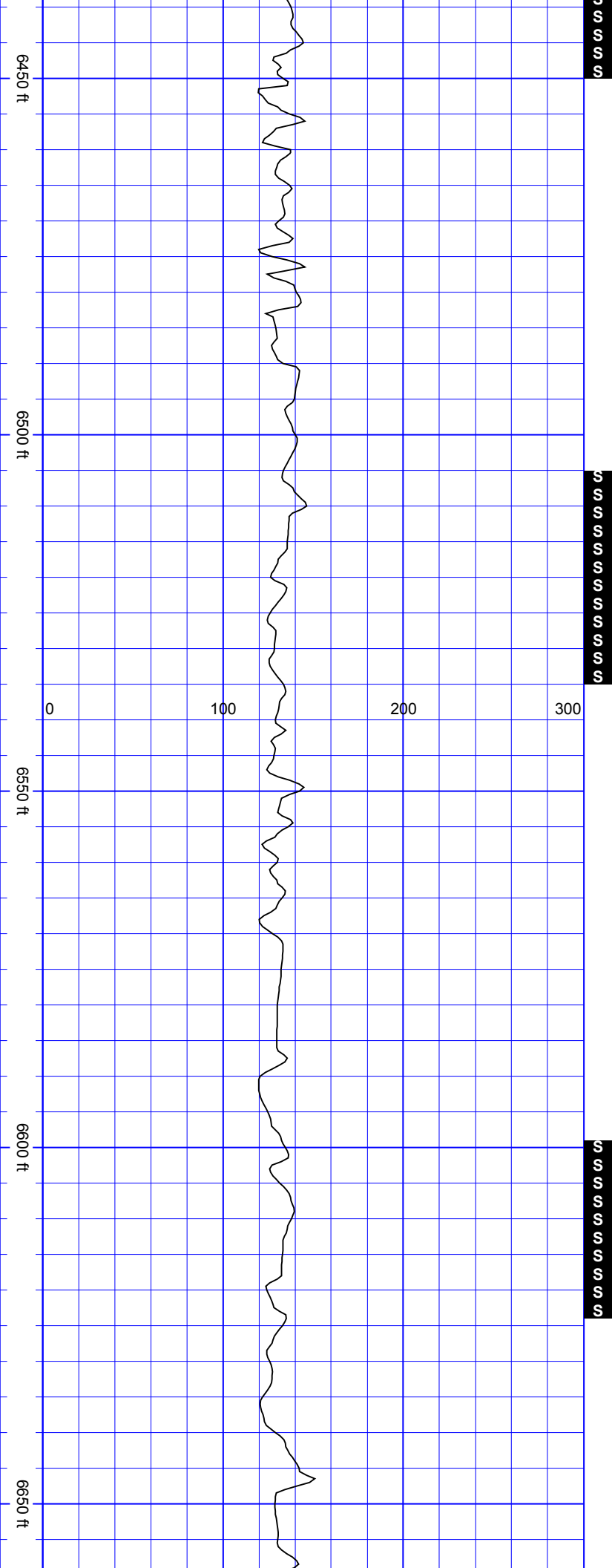




SurveyDepth:6251
TVD:6186.59 Inc:6.81
Azi:346.12 VertSec:-
250.17

SurveyDepth:6346
TVD:6280.94 Inc:6.68
Azi:329.33 VertSec:-
254.33

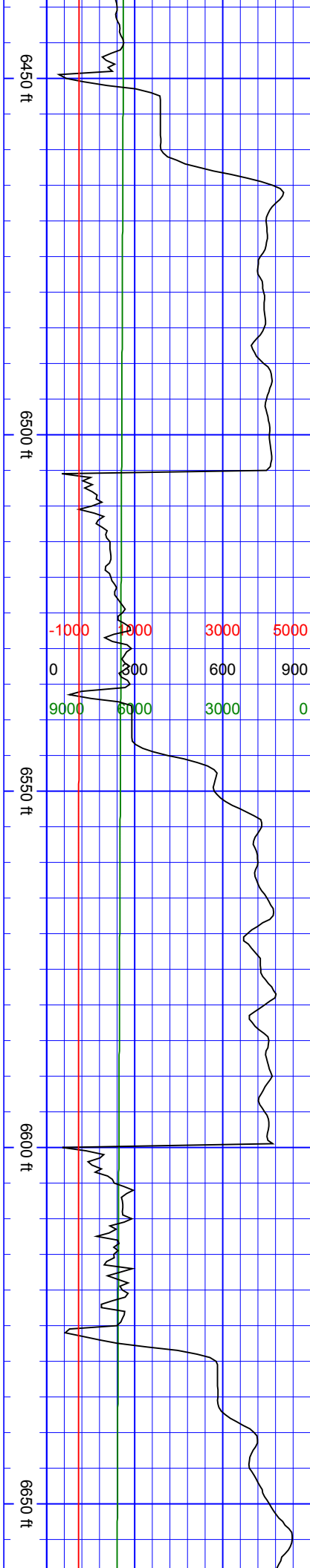


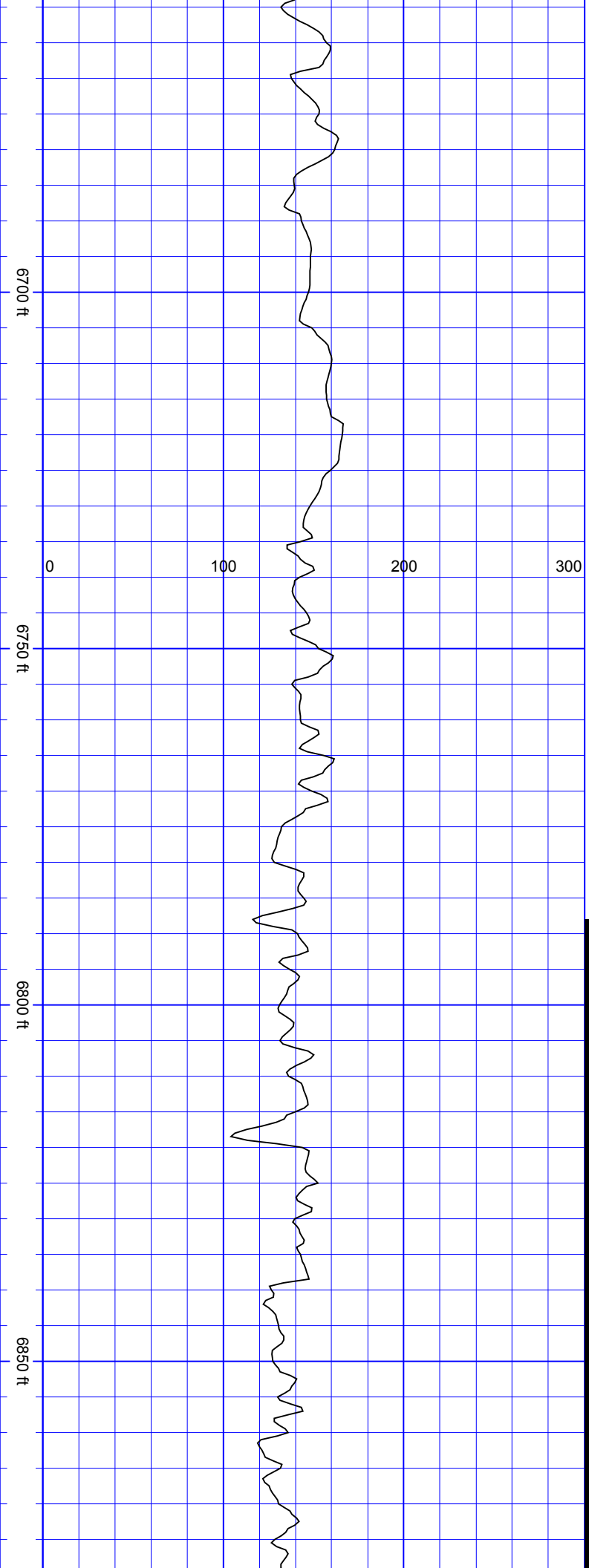


SurveyDepth:6441
TVD:6375.13 Inc:8.35
Azi:340.85 VertSec:-259.4

SurveyDepth:6535
TVD:6467.95 Inc:9.8
Azi:341.29 VertSec:-264.18

SurveyDepth:6630
TVD:6561.6 Inc:9.54
Azi:343.57 VertSec:-268.98

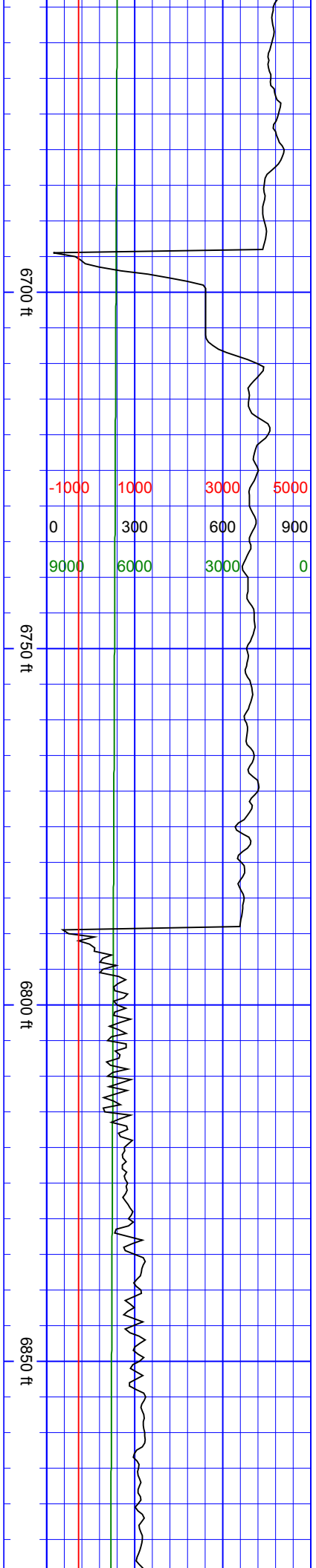




SurveyDepth:6724
TVD:6654.6 Inc:7.12
Azi:339 VertSec:-273.25



SurveyDepth:6818
TVD:6747.89 Inc:7.12
Azi:358.07 VertSec:-275.52



6900 ft

6950 ft

7000 ft

7050 ft

71

0 100 200 300

SurveyDepth:6913
TVD:6841.48 Inc:12.7
Azi:23.03 VertSec:-
271.61

SurveyDepth:7007
TVD:6931.27 Inc:21.36
Azi:25.14 VertSec:-
260.24

6900 ft

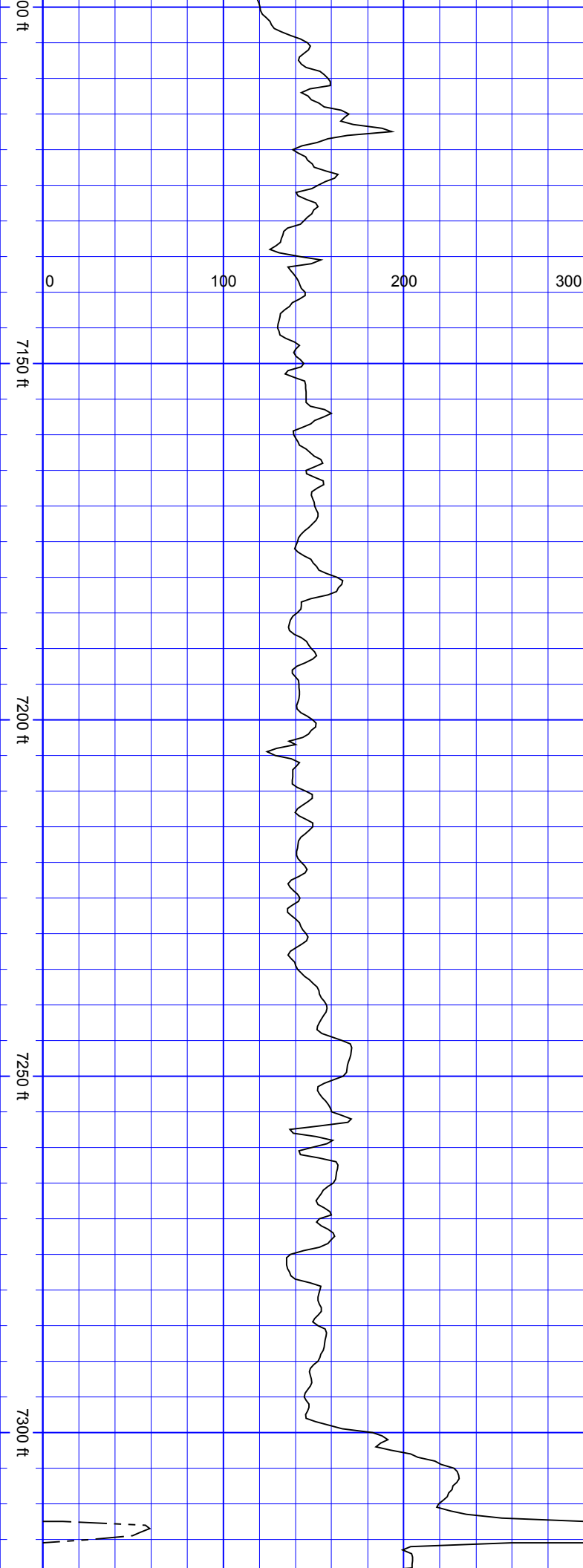
6950 ft

7000 ft

7050 ft

71

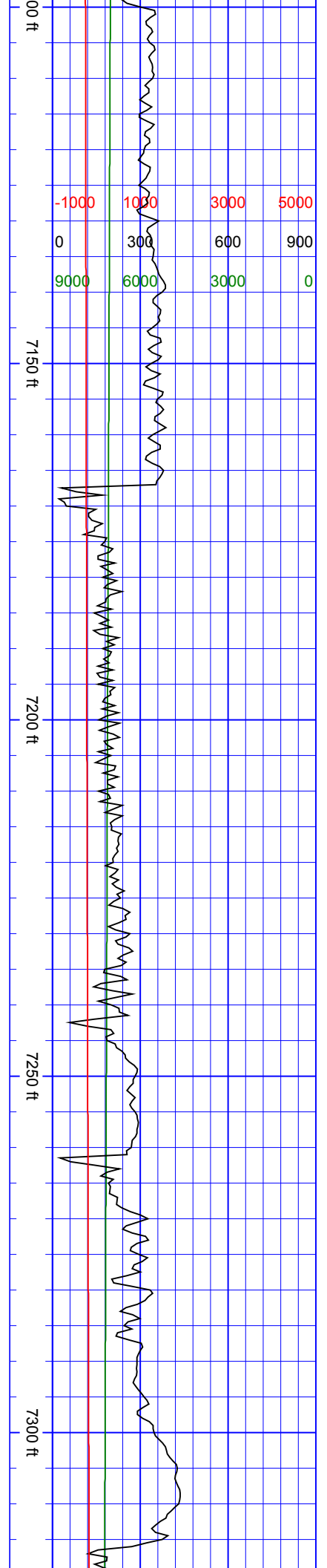
-1000	1000	3000	5000
0	300	600	900
9000	6000	3000	0

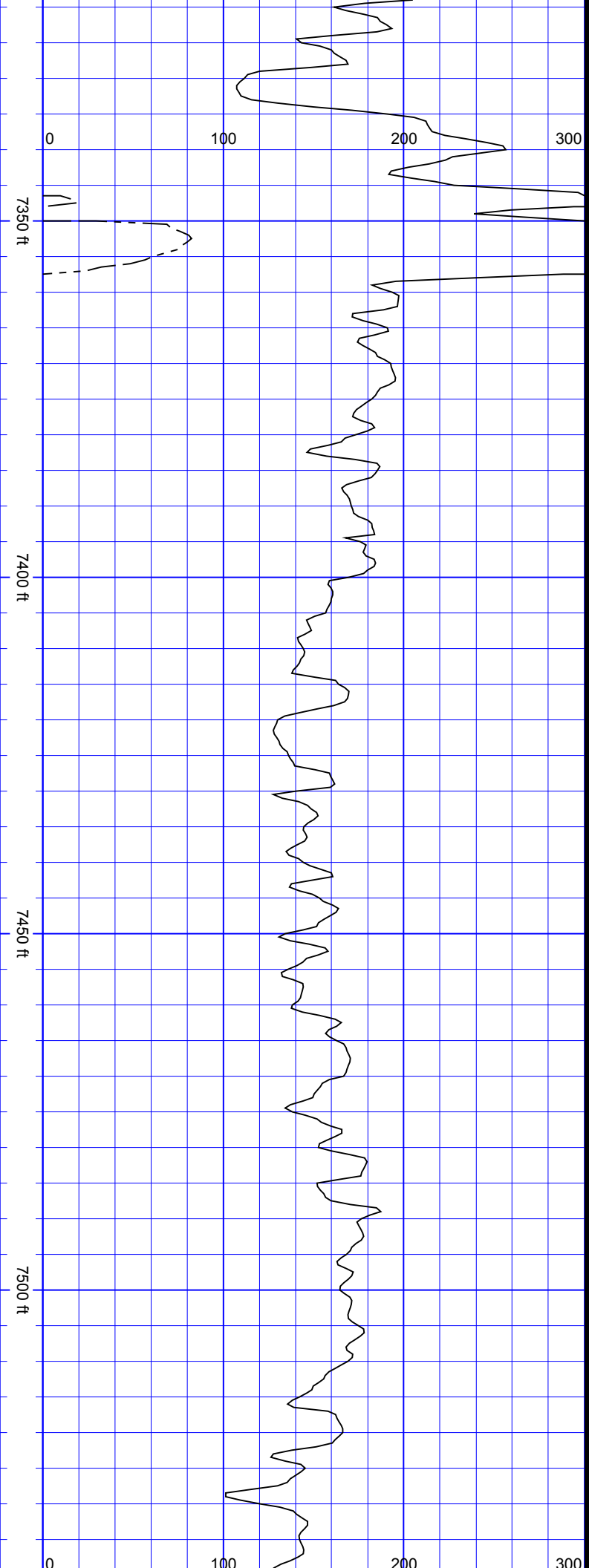


SurveyDepth:7102
TVD:7019.32 Inc:22.81
Azi:33.05 VertSec:-242.8

SurveyDepth:7197
TVD:7105.53 Inc:27.38
Azi:55.91 VertSec:-
214.54

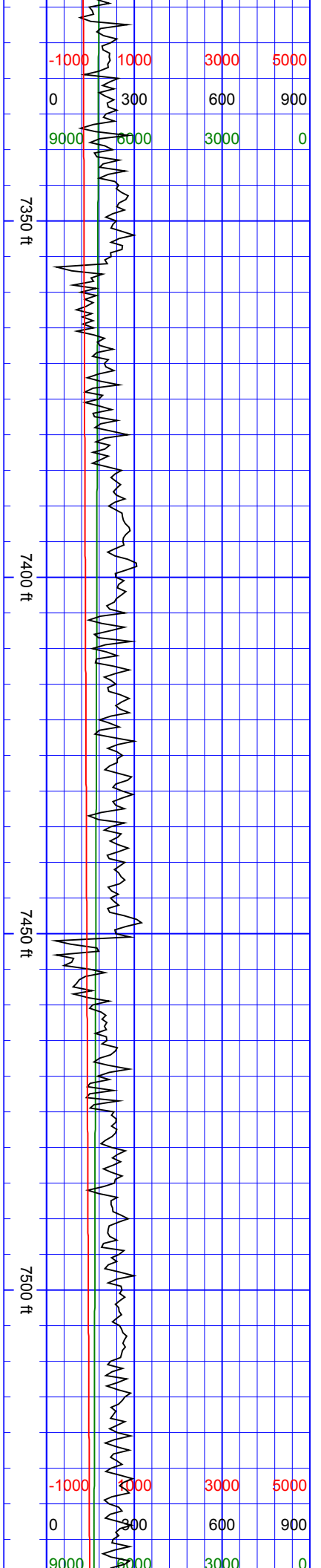
SurveyDepth:7291
TVD:7187.19 Inc:32.08
Azi:66.89 VertSec:-173.6

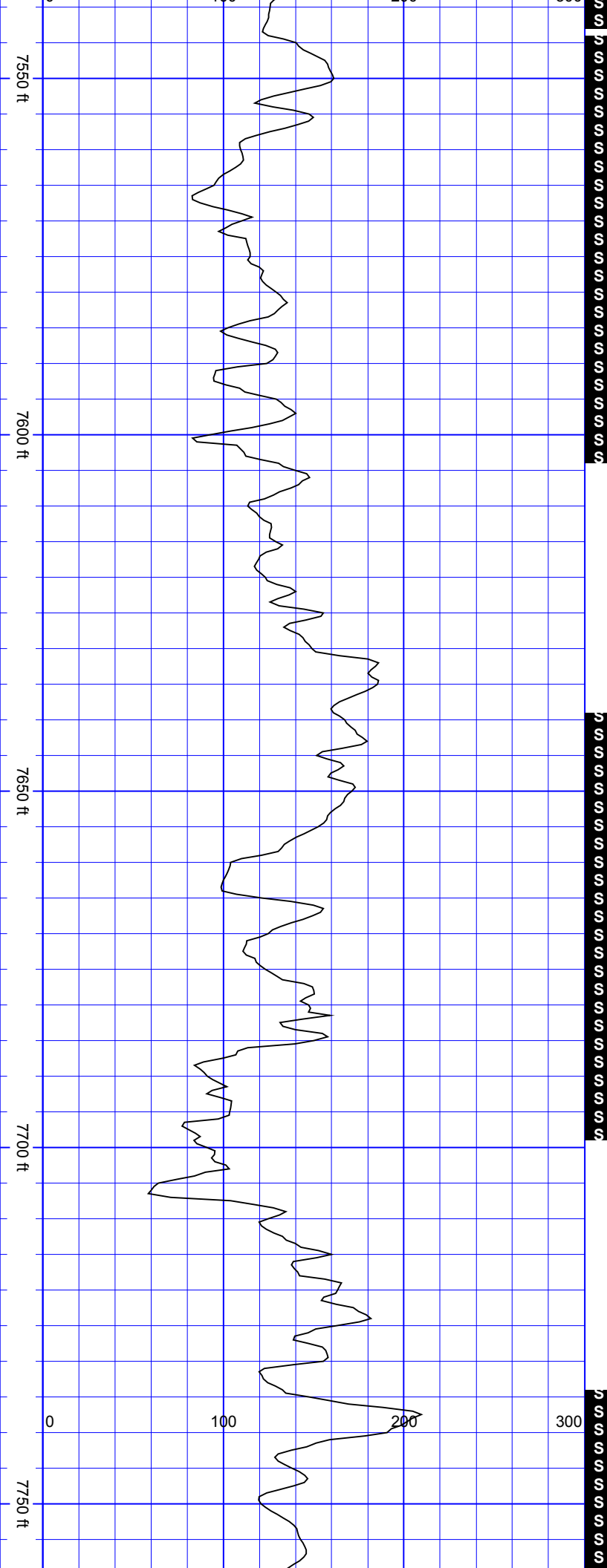




SurveyDepth:7385
TVD:7263.03 Inc:40.25
Azi:71.55 VertSec:-
121.71

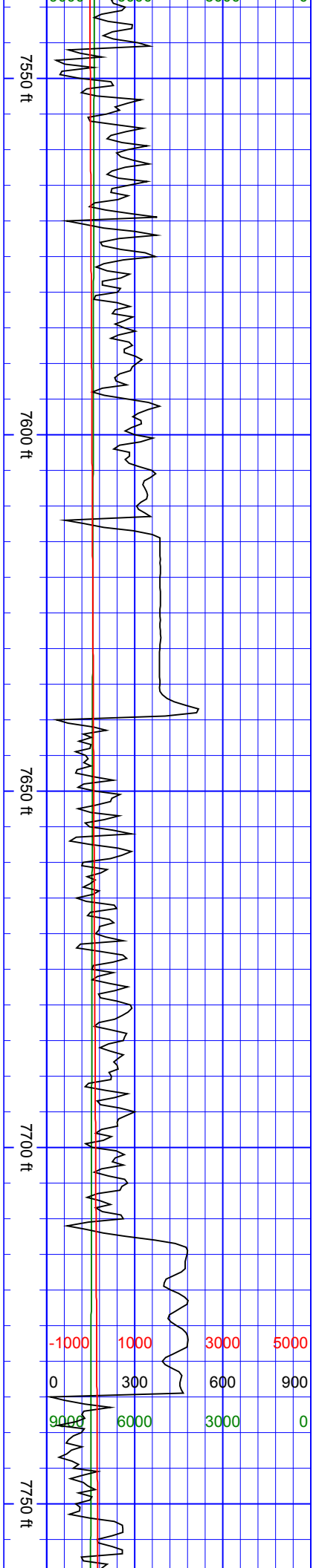
SurveyDepth:7480
TVD:7331.36 Inc:47.77
Azi:79.64 VertSec:-57.83

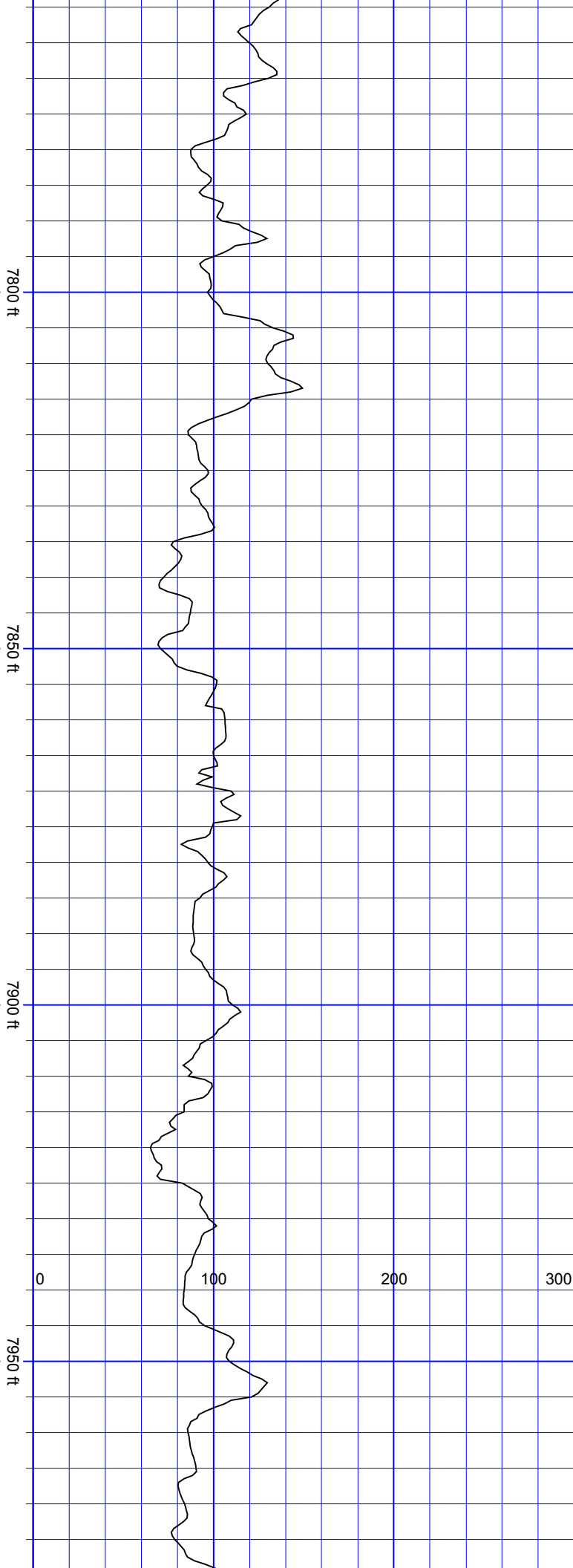




SurveyDepth:7575
TVD:7392.65 Inc:52.03
Azi:90.45 VertSec:14.38

SurveyDepth:7670
TVD:7448.44 Inc:56.03
Azi:93.35 VertSec:91.18

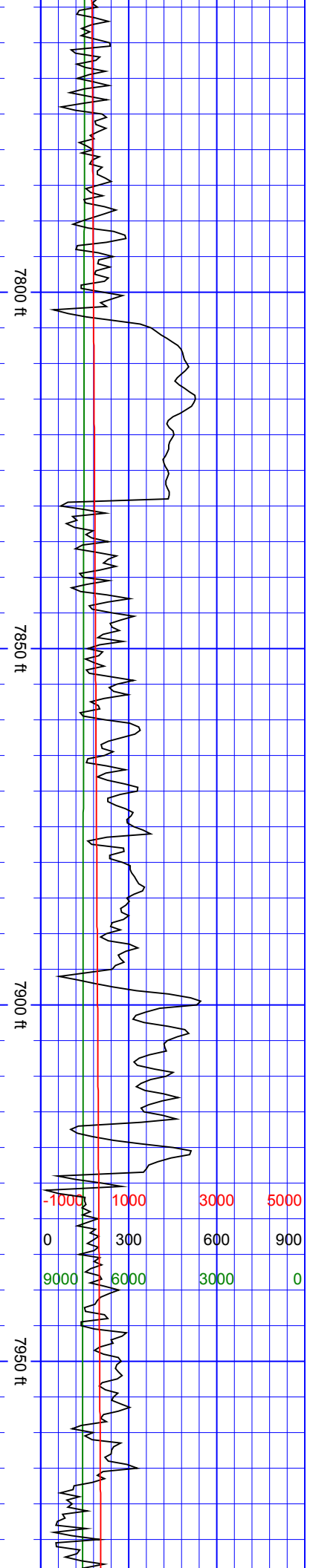


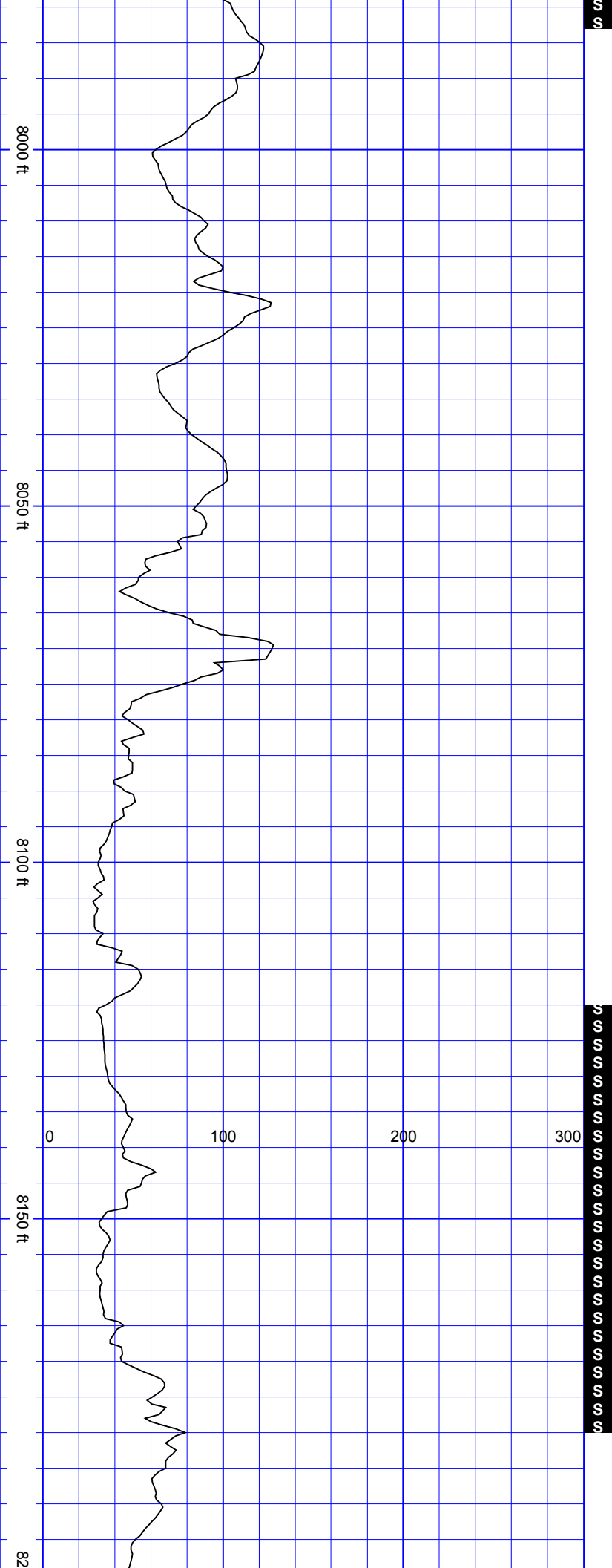


SurveyDepth:7764
TVD:7496.69 Inc:62.18
Azi:91.5 VertSec:171.73

SurveyDepth:7859
TVD:7536.4 Inc:68.38
Azi:92.73
VertSec:257.91

SurveyDepth:7954
TVD:7564.68 Inc:76.95
Azi:95.28
VertSec:348.27

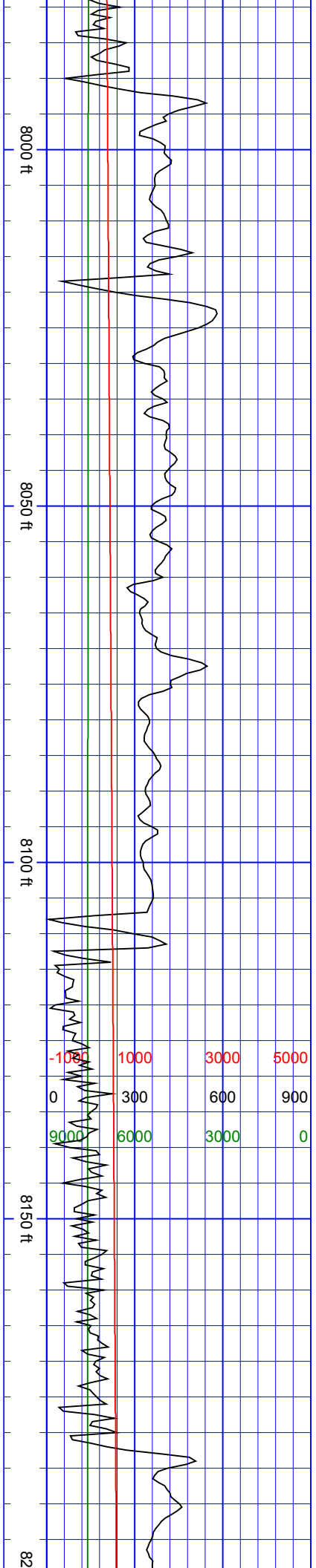


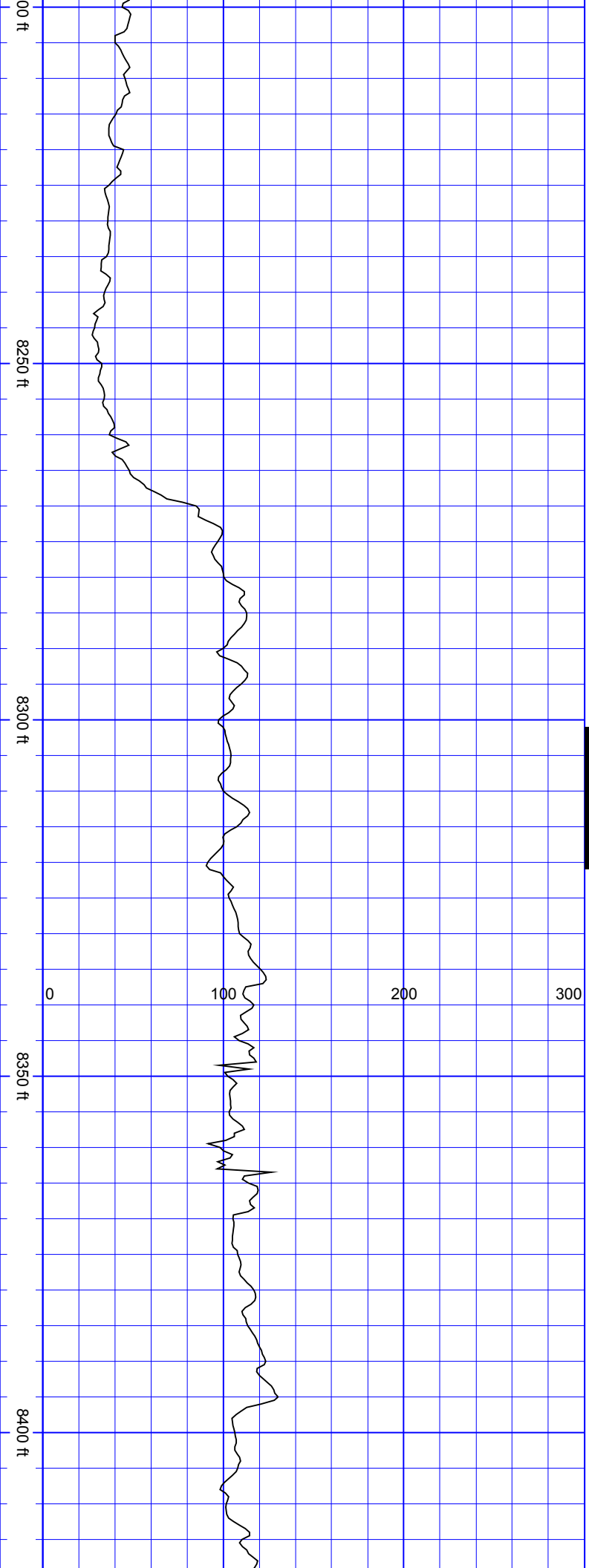


SurveyDepth:8048
TVD:7583.79 Inc:79.59
Azi:95.72
VertSec:439.86

SS

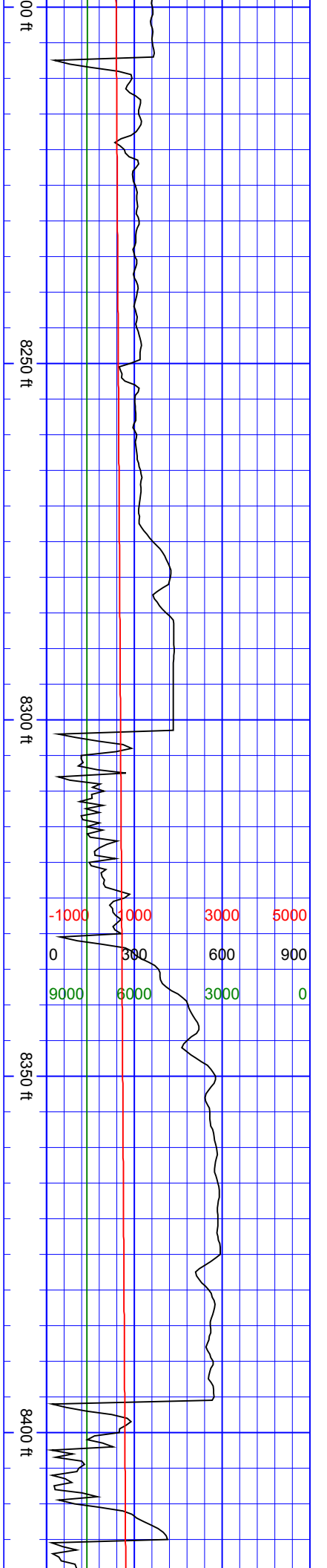
SurveyDepth:8143
TVD:7598.59 Inc:82.49
Azi:92.56
VertSec:533.43

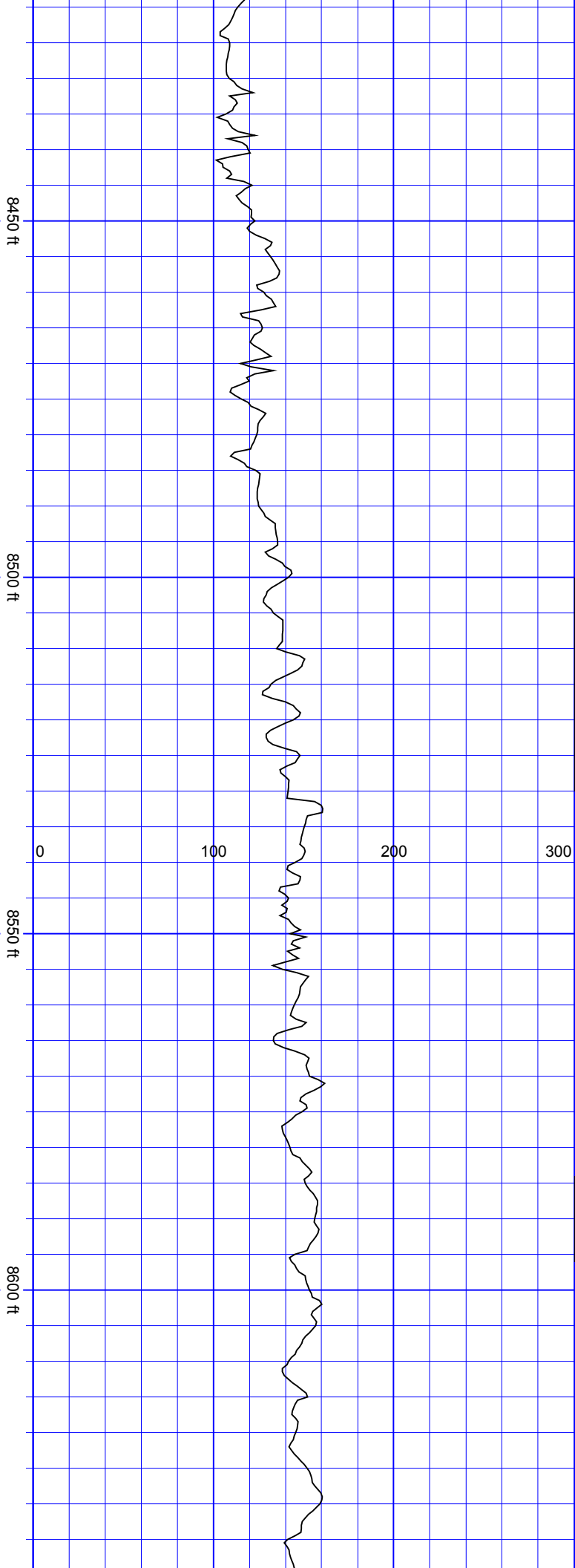




SurveyDepth:8237
TVD:7608.45 Inc:85.47
Azi:90.27
VertSec:626.86

SurveyDepth:8331
TVD:7614.61 Inc:87.01
Azi:87.99
VertSec:720.64

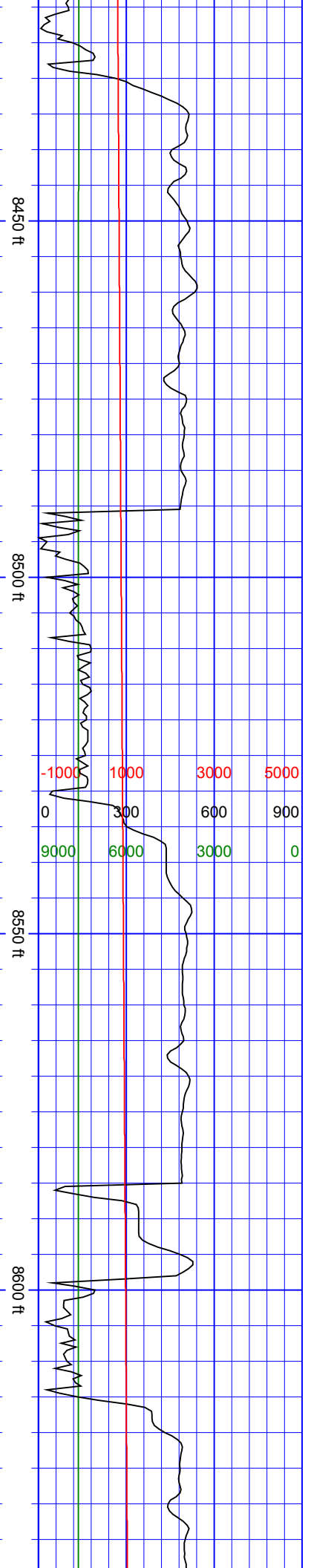


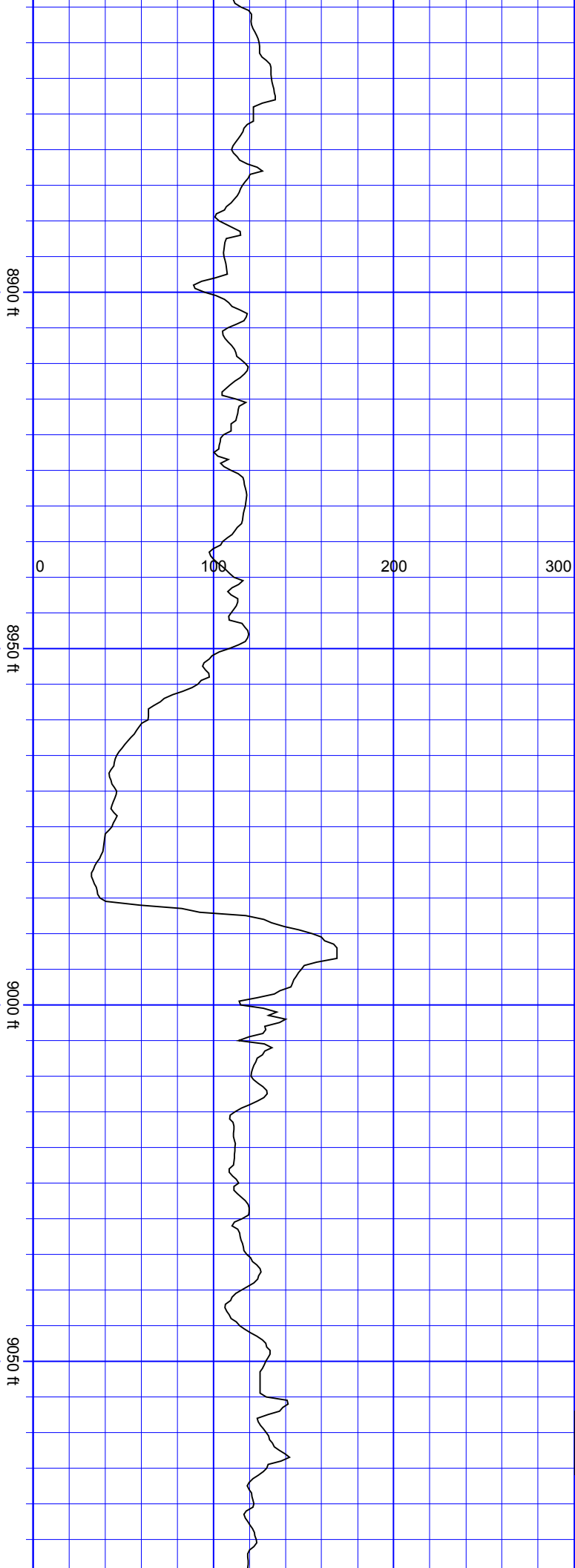


SurveyDepth:8426
TVD:7620.62 Inc:85.74
Azi:87.72
VertSec:815.39

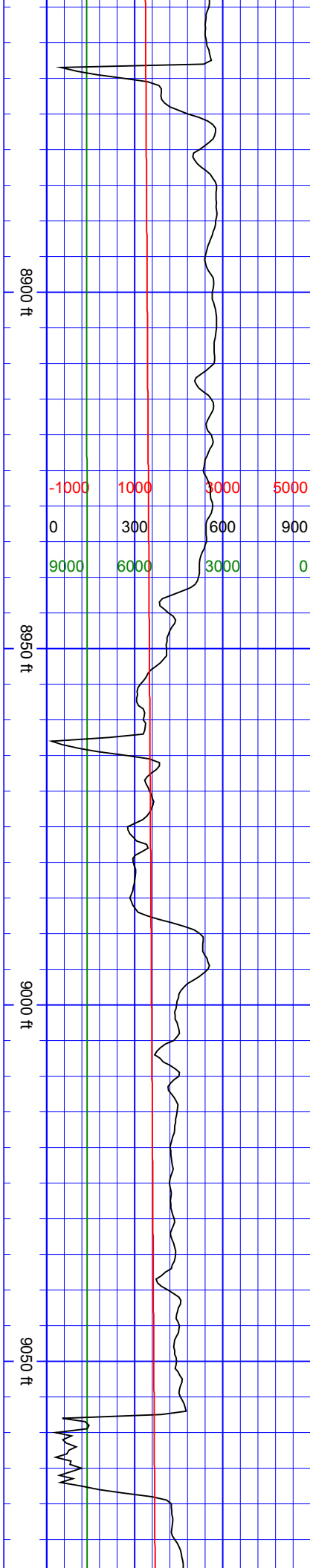
SurveyDepth:8520
TVD:7625.37 Inc:88.46
Azi:90.01
VertSec:909.24

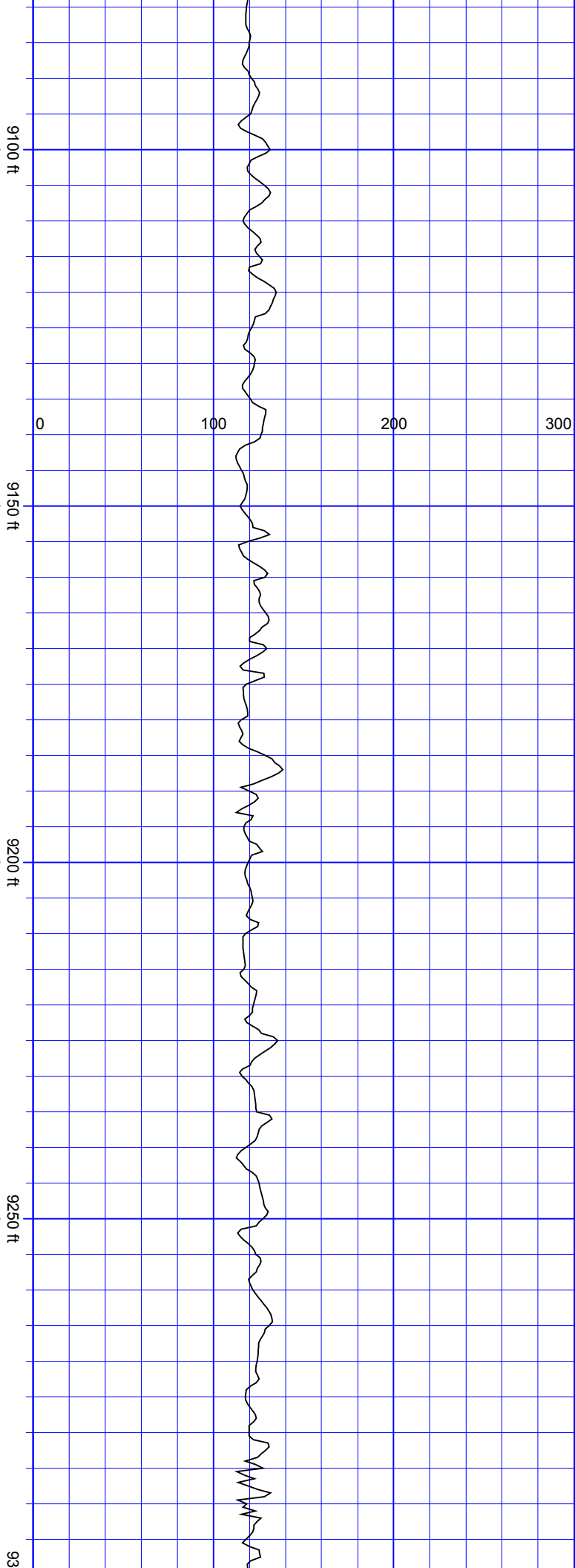
SurveyDepth:8614
TVD:7626.56 Inc:90.09
Azi:89.83
VertSec:1003.23



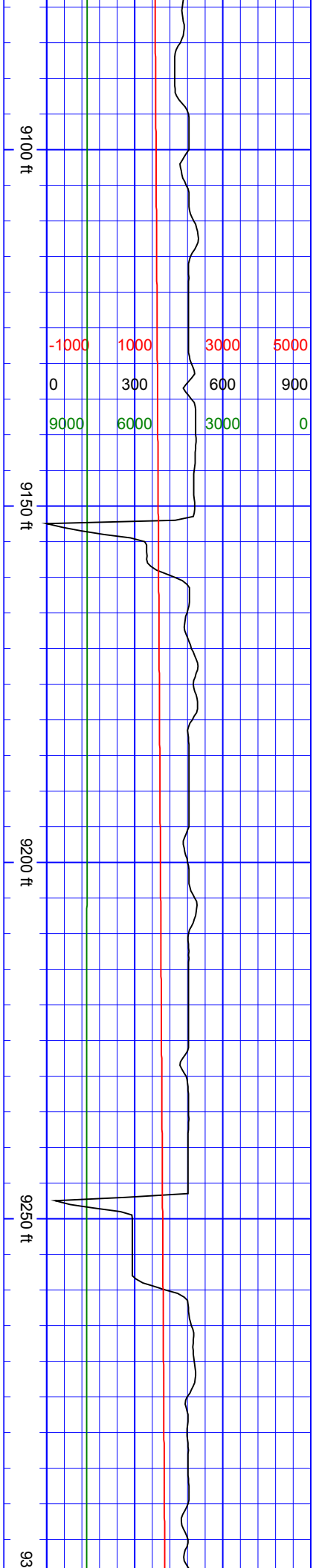


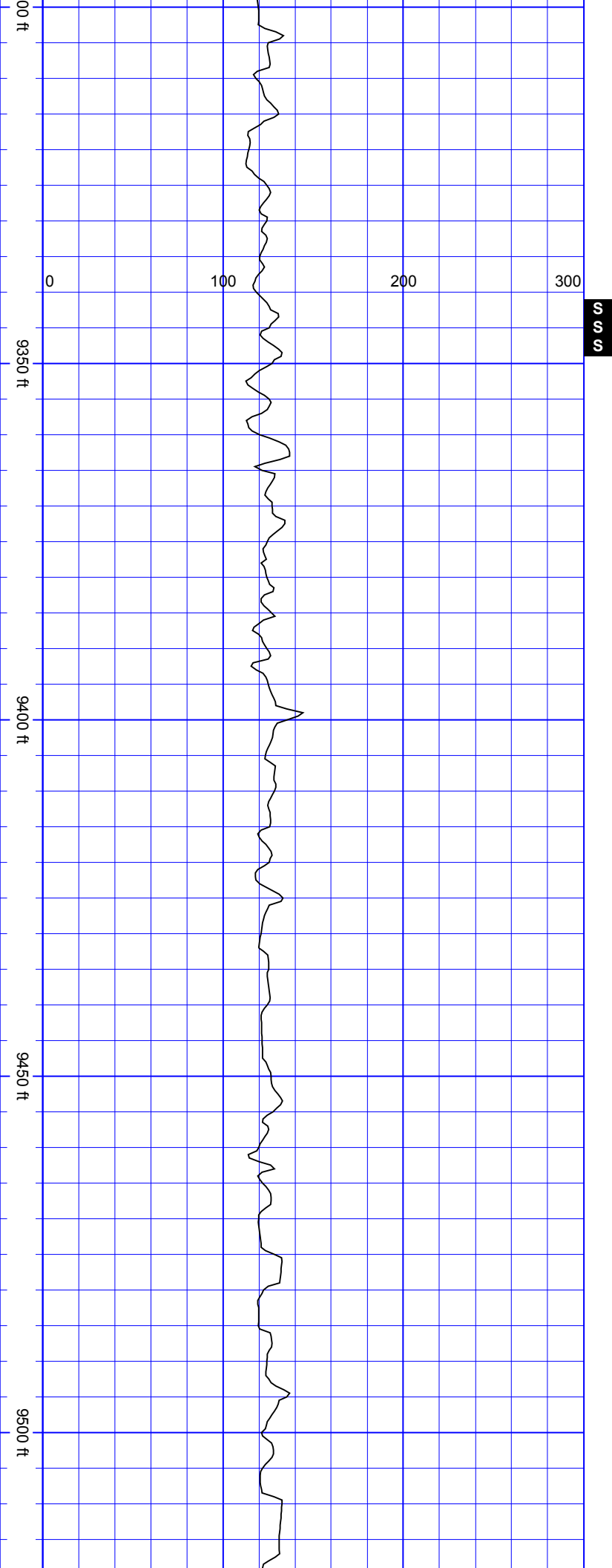
SurveyDepth:8899 TVD:7622.29 Inc:91.89 Azi:90.09 VertSec:1288.17	SurveyDepth:8993 TVD:7619.73 Inc:91.23 Azi:89.92 VertSec:1382.13
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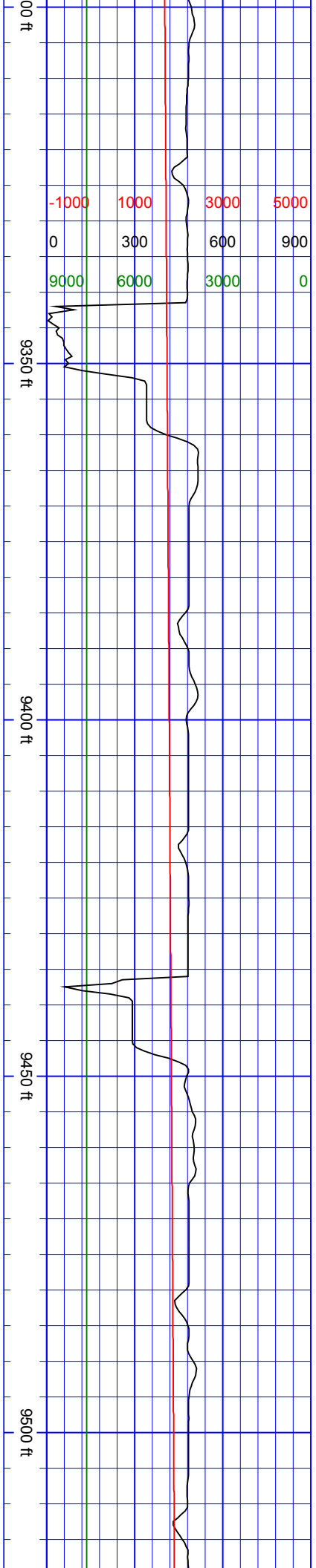
SurveyDepth:9088 TVD:7619.36 Inc:89.21 Azi:90.36 VertSec:1477.12
SurveyDepth:9183 TVD:7621.04 Inc:88.77 Azi:89.83 VertSec:1572.11
SurveyDepth:9277 TVD:7623.41 Inc:88.33 Azi:90.36 VertSec:1666.08

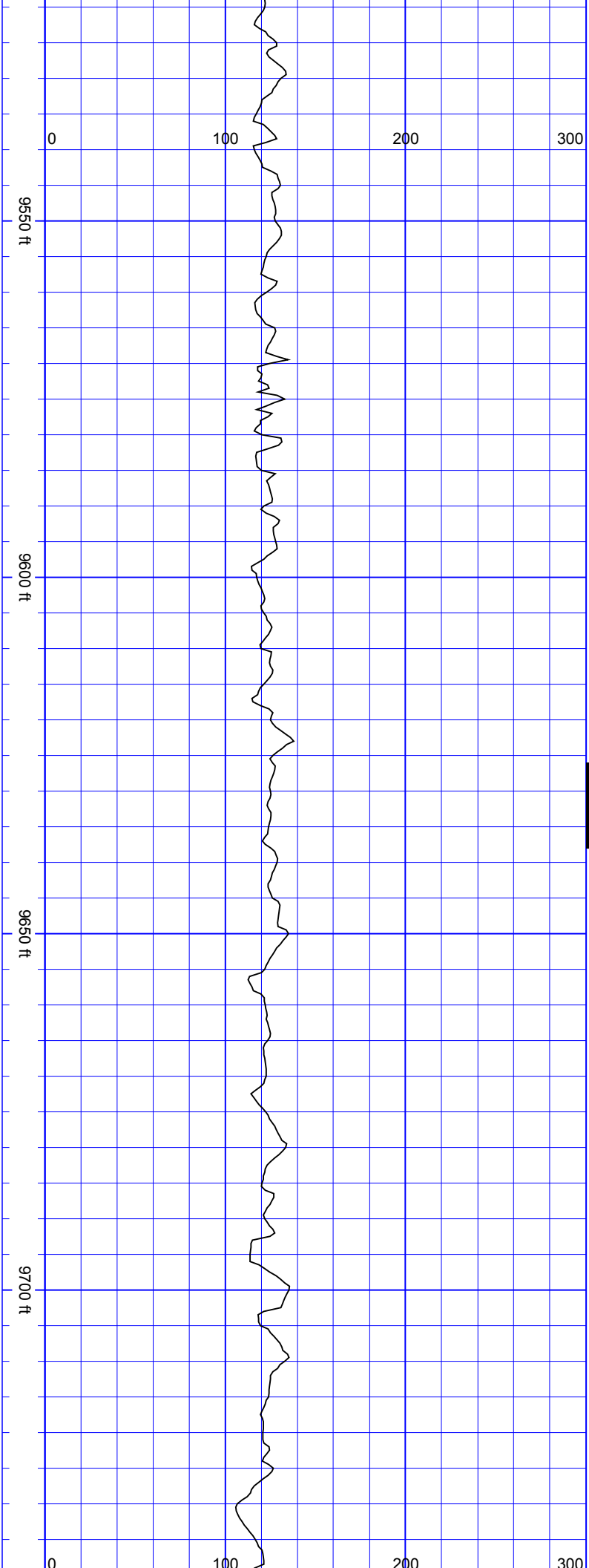




SurveyDepth:9373
TVD:7625.15 Inc:89.6
Azi:90.09
VertSec:1762.06

SurveyDepth:9467
TVD:7626.05 Inc:89.3
Azi:90.45
VertSec:1856.05

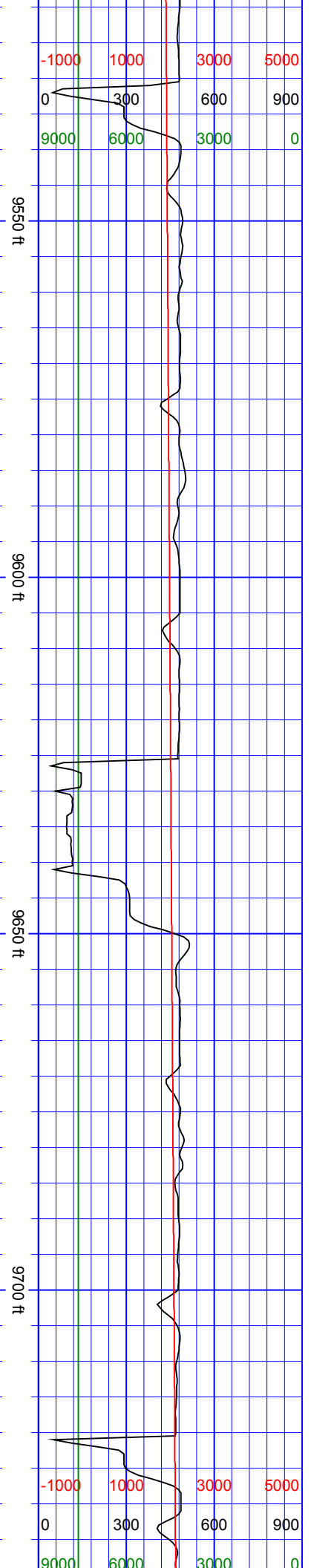


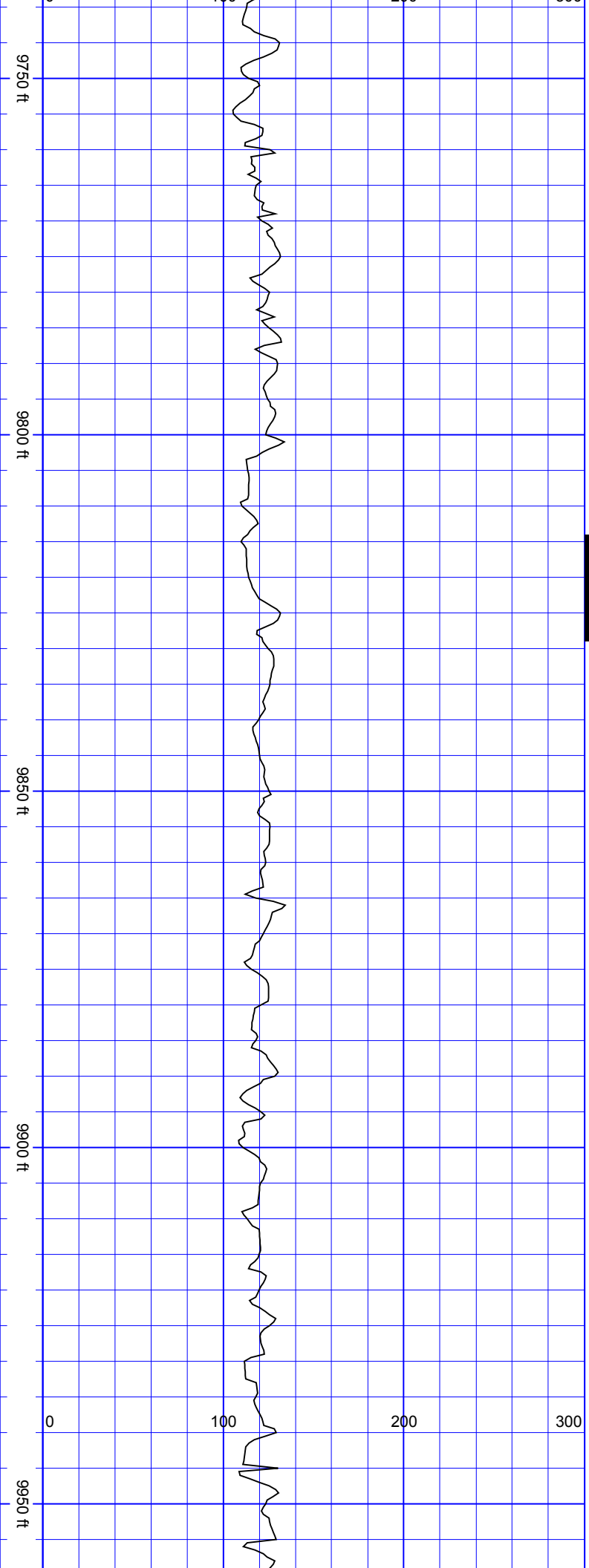


SurveyDepth:9562
TVD:7627.76 Inc:88.64
Azi:90.53
VertSec:1951.03

SurveyDepth:9656
TVD:7628.84 Inc:90.04
Azi:89.66
VertSec:2045.02

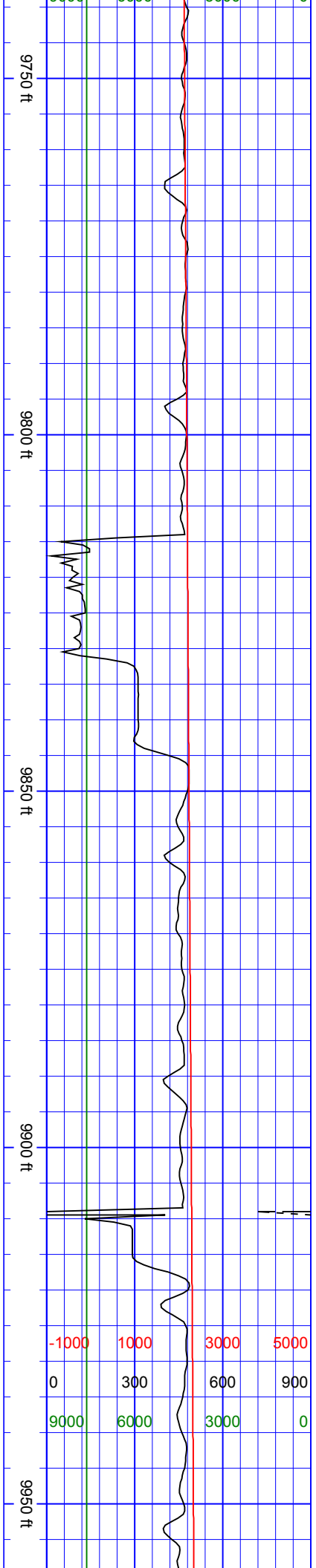
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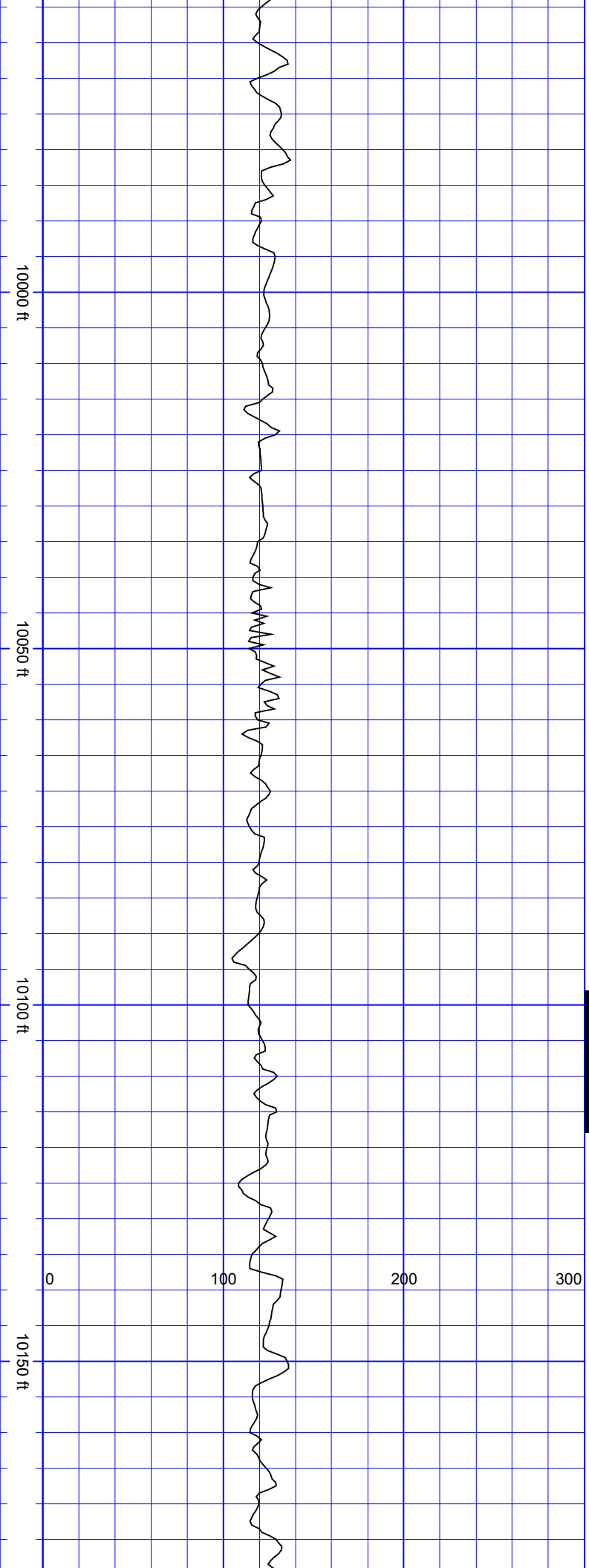




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SurveyDepth:9750 TVD:7629.35 Inc:89.34 Azi:90.71 VertSec:2139.02	SurveyDepth:9844 TVD:7629.32 Inc:90.7 Azi:89.39 VertSec:2233.01	SurveyDepth:9939 TVD:7628.63 Inc:90.13 Azi:90.71 VertSec:2328.01
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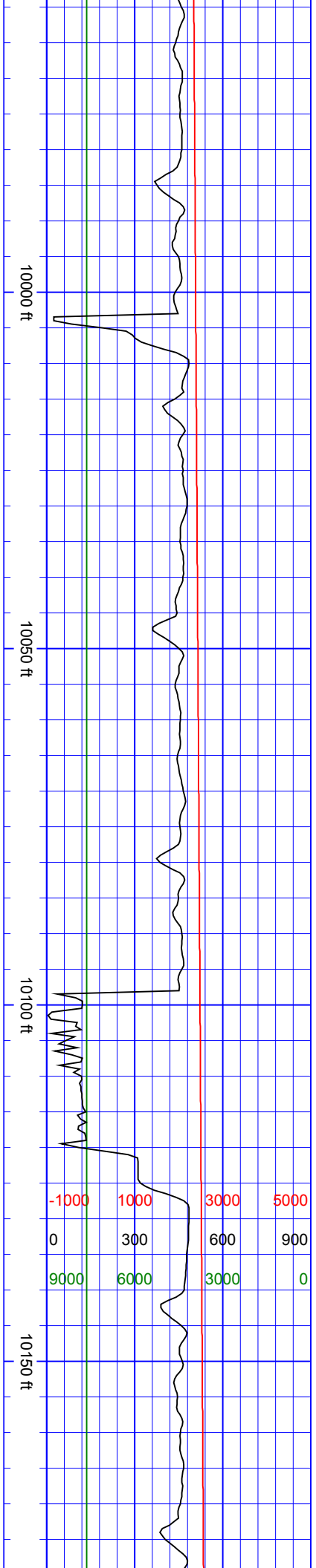


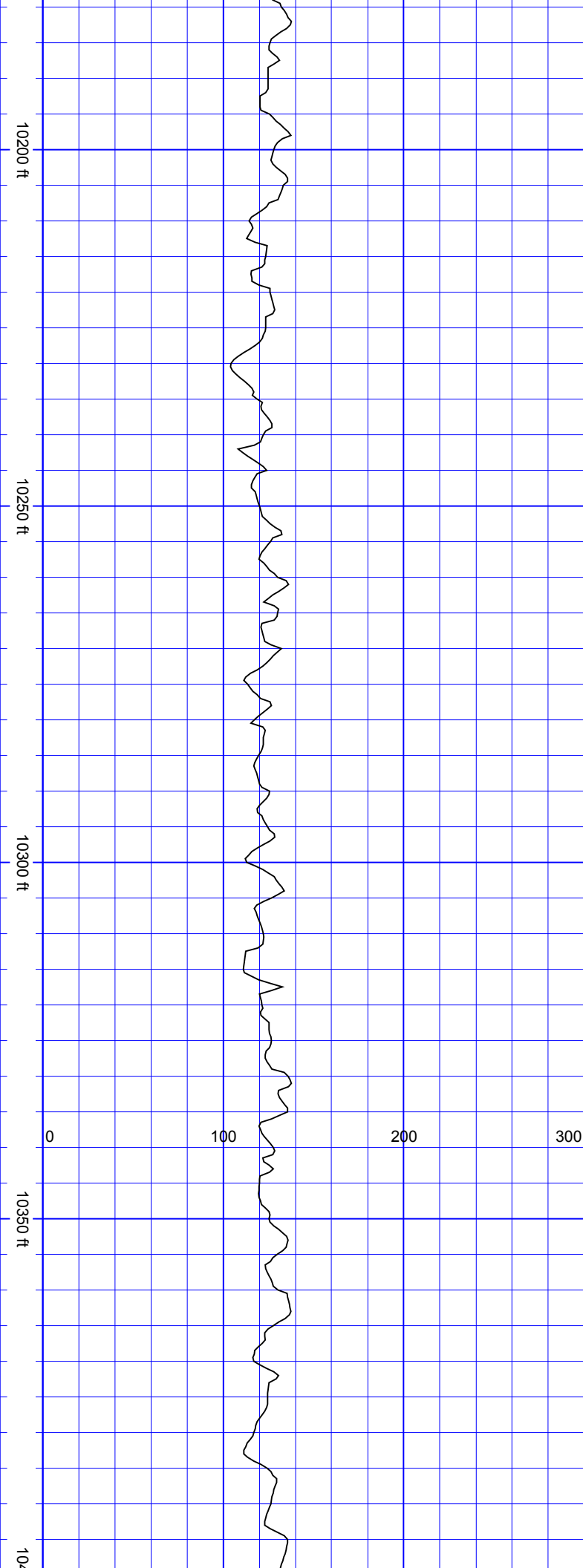


SurveyDepth:10034
TVD:7628.7 Inc:89.78
Azi:91.41
VertSec:2422.99

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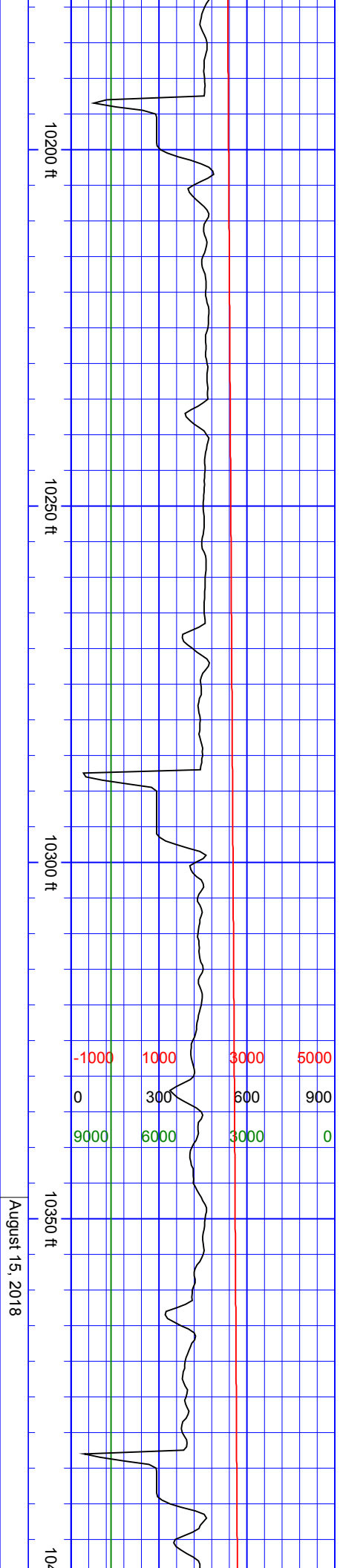
SurveyDepth:10128
TVD:7627.73 Inc:91.41
Azi:89.3
VertSec:2516.97

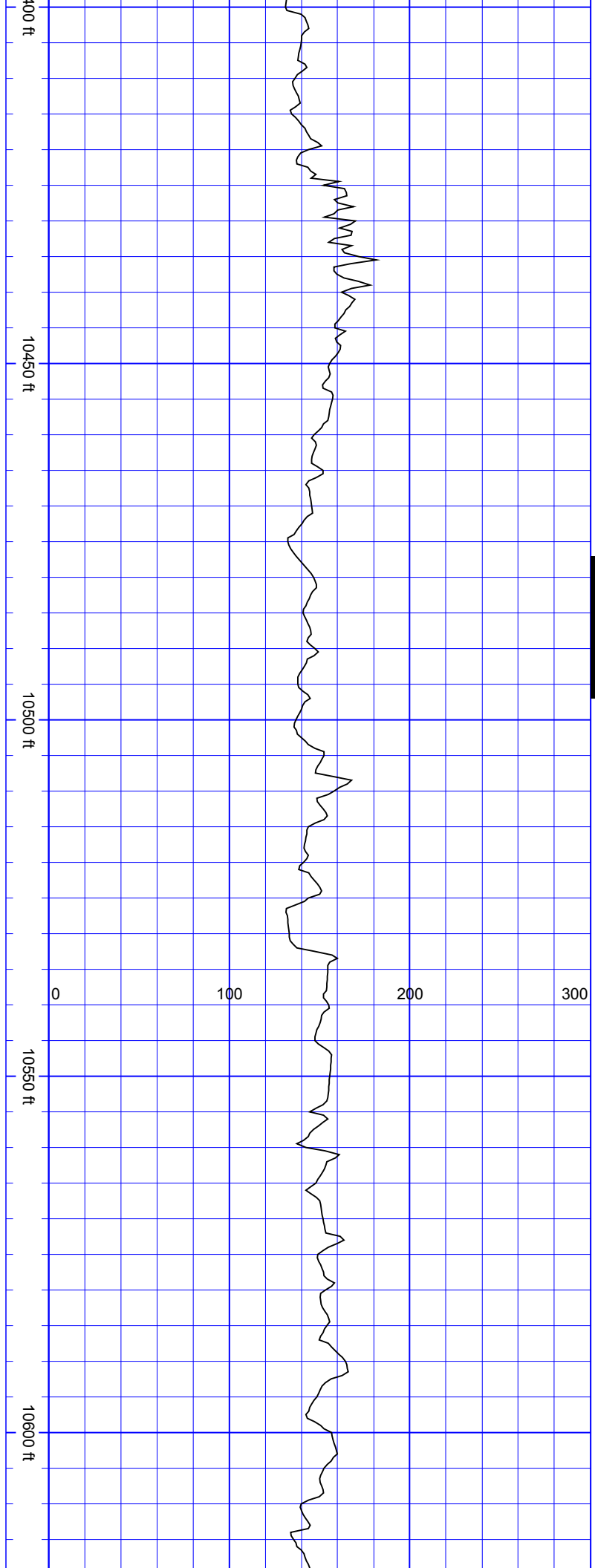




SurveyDepth:10223
TVD:7625.57 Inc:91.19
Azi:89.83
VertSec:2611.94

SurveyDepth:10318
TVD:7623.71 Inc:91.06
Azi:90.53
VertSec:2706.92

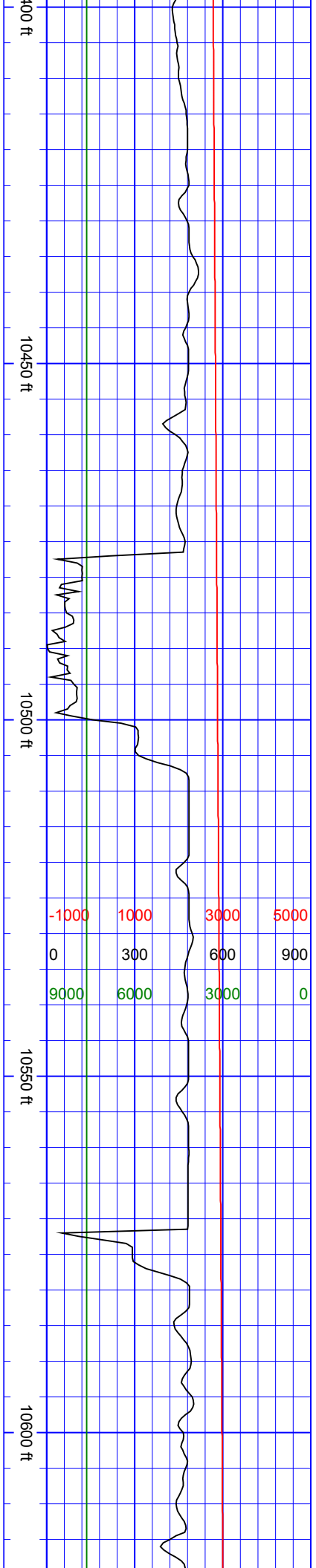


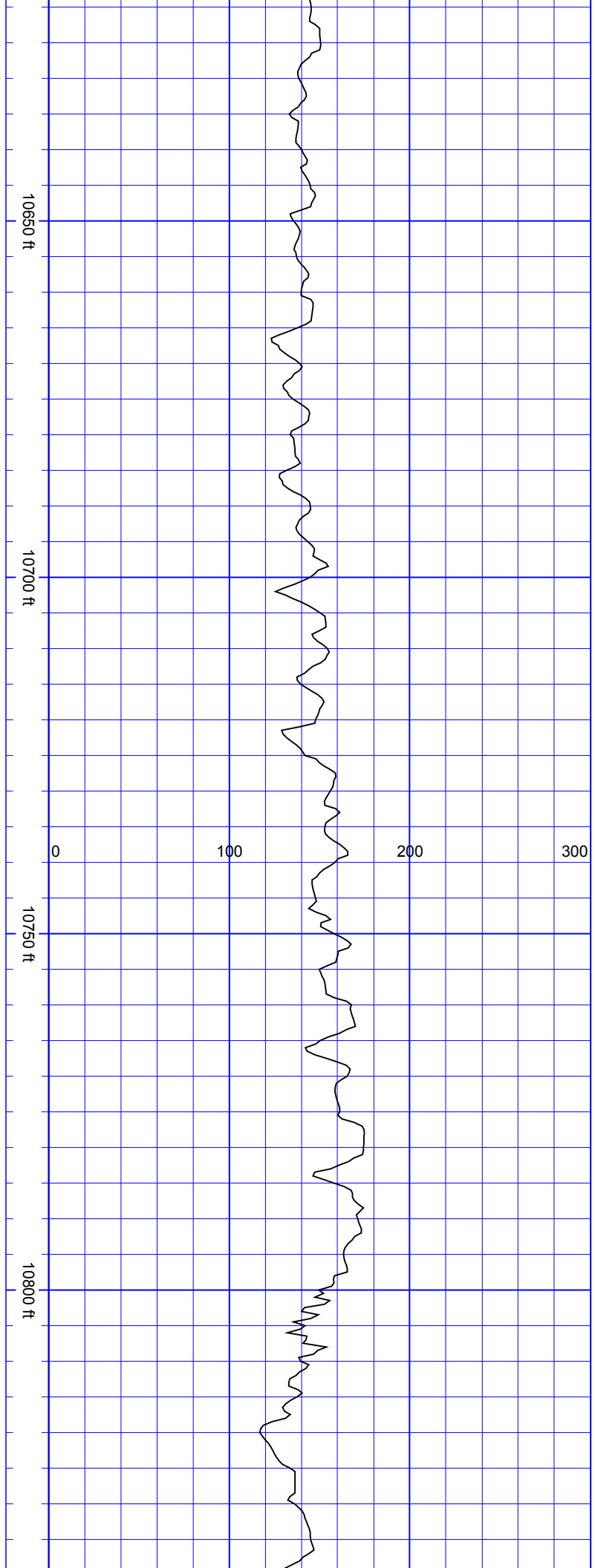


SurveyDepth:10413
TVD:7622.28 Inc:90.66
Azi:92.29
VertSec:2801.88

SurveyDepth:10507
TVD:7622.17 Inc:89.47
Azi:89.39
VertSec:2895.85

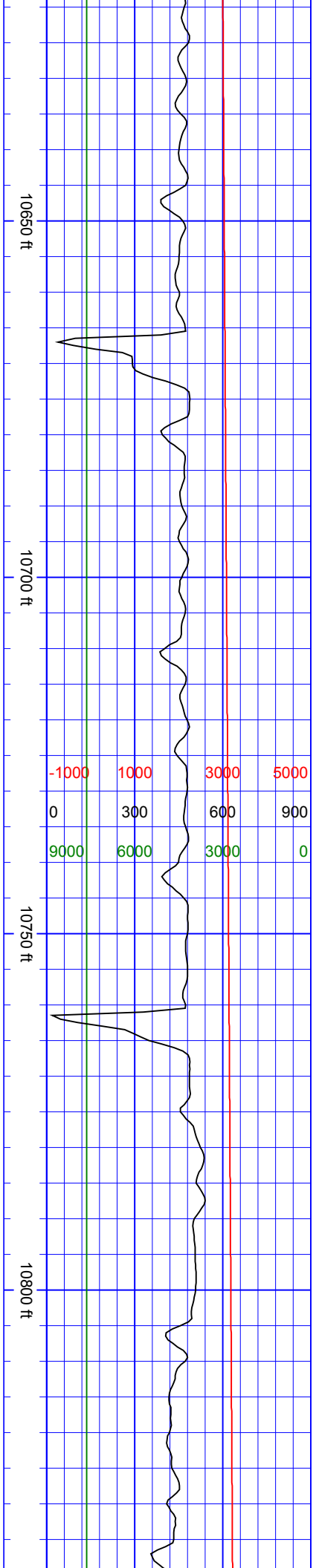
SurveyDepth:10602
TVD:7622.9 Inc:89.65
Azi:89.13
VertSec:2990.84





SurveyDepth:10697
TVD:7623.63 Inc:89.47
Azi:88.69
VertSec:3085.83

SurveyDepth:10792
TVD:7625.13 Inc:88.73
Azi:87.9
VertSec:3180.78

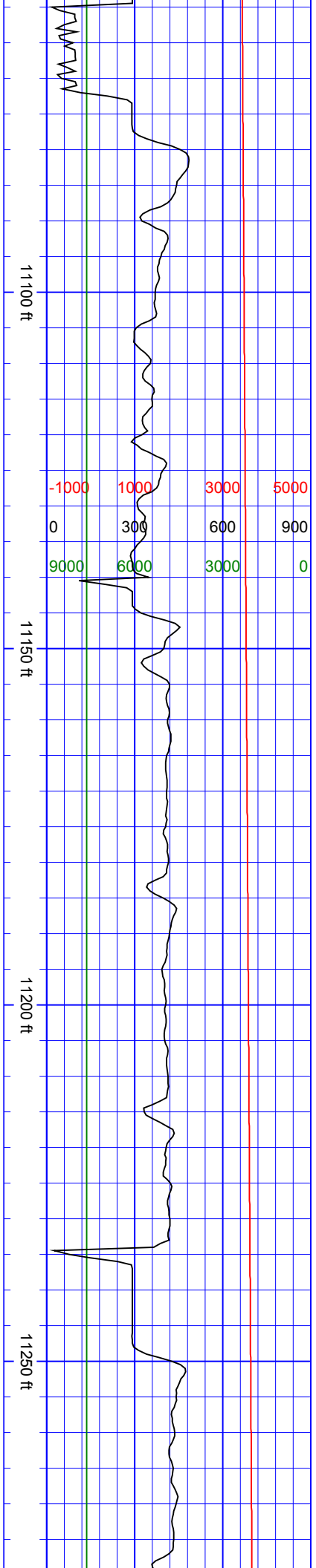
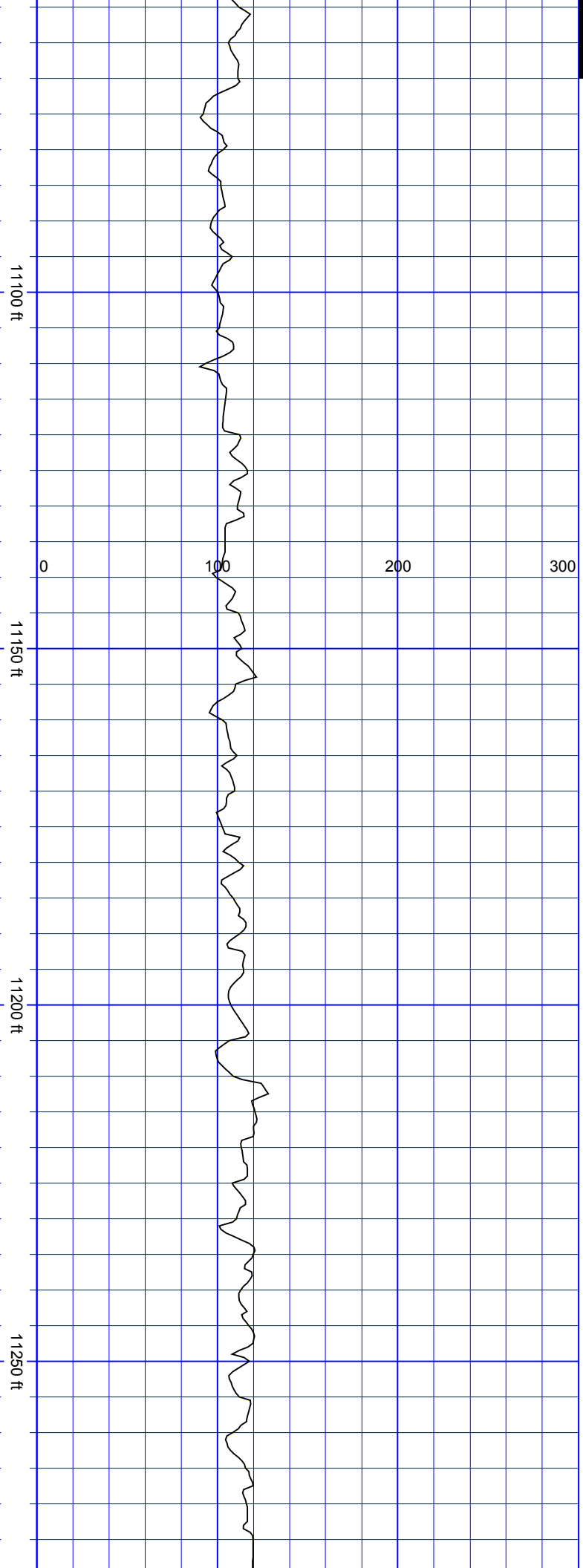


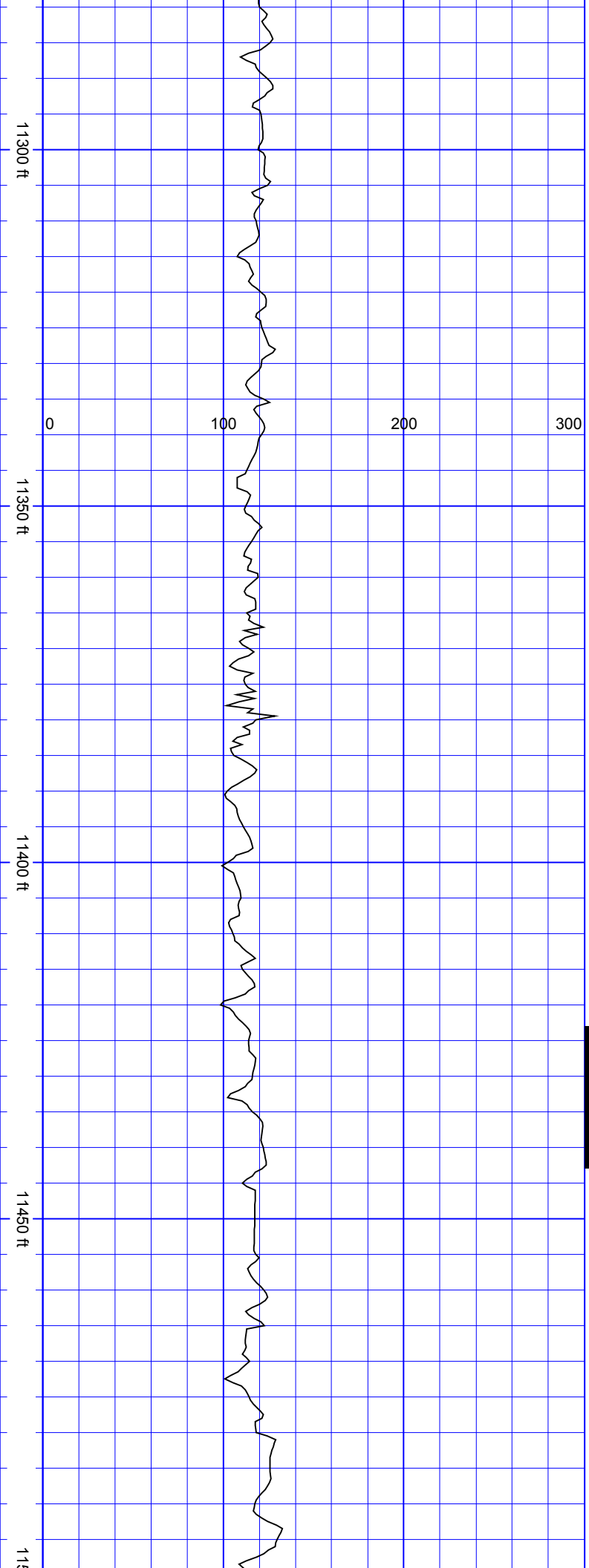
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SurveyDepth:11075
TVD:7626.42 Inc:90.31
Azi:88.6 VertSec:3463.7

SurveyDepth:11170
TVD:7626.13 Inc:90.04
Azi:88.69
VertSec:3558.68

SurveyDepth:11265
TVD:7626.47 Inc:89.56
Azi:88.86
VertSec:3653.66

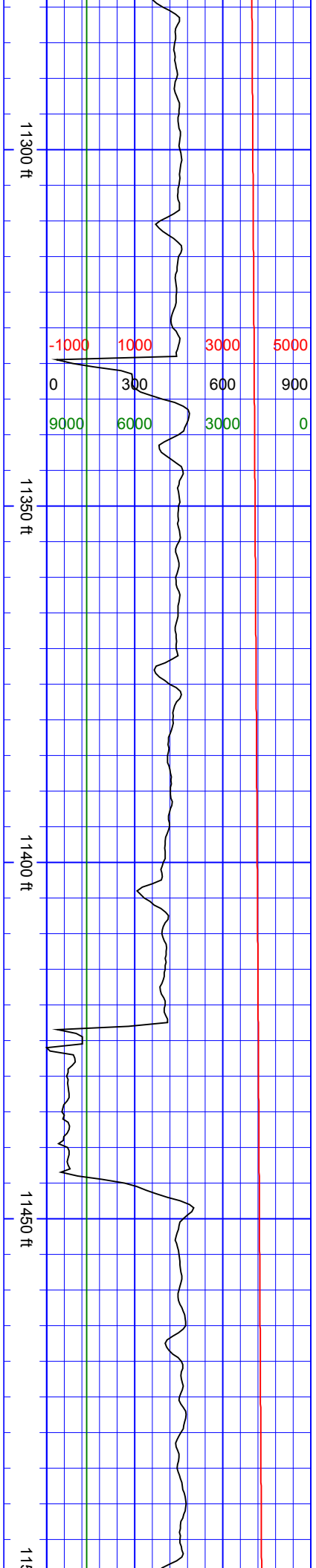


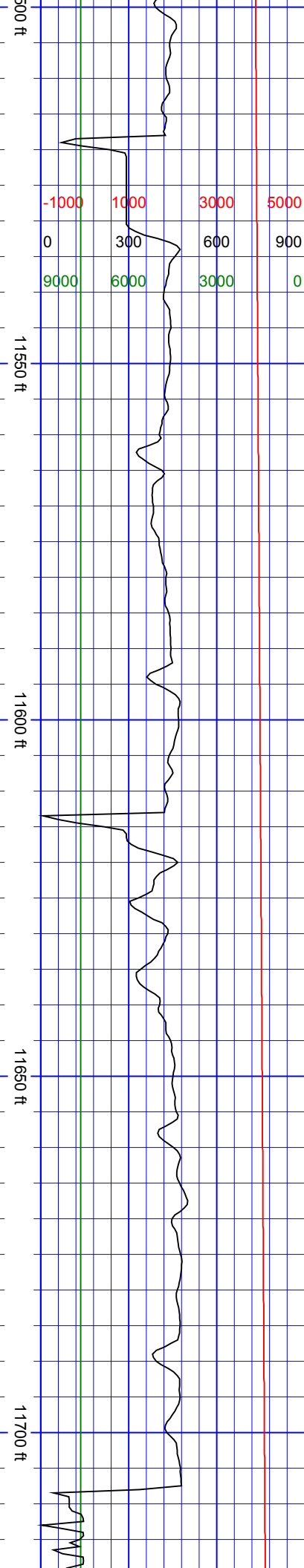


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SurveyDepth:11359
TVD:7627.73 Inc:88.9
Azi:89.22
VertSec:3747.64

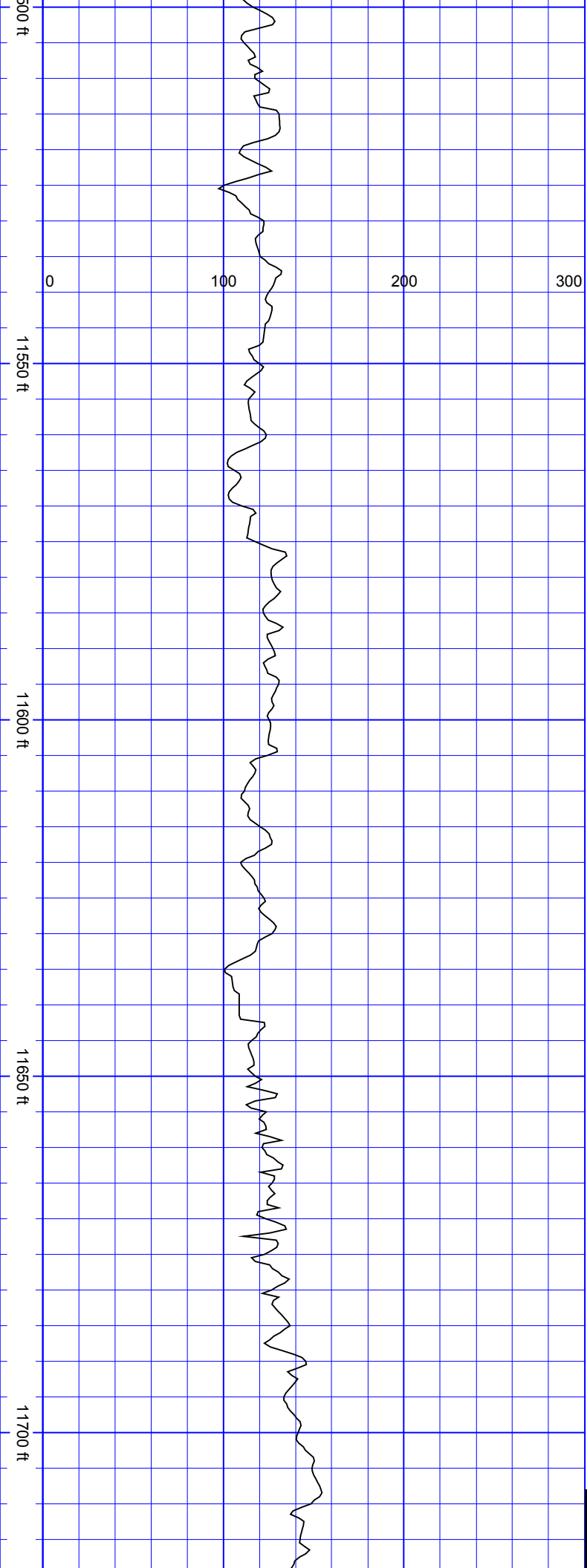
SurveyDepth:11454
TVD:7628.67 Inc:89.96
Azi:88.07
VertSec:3842.61

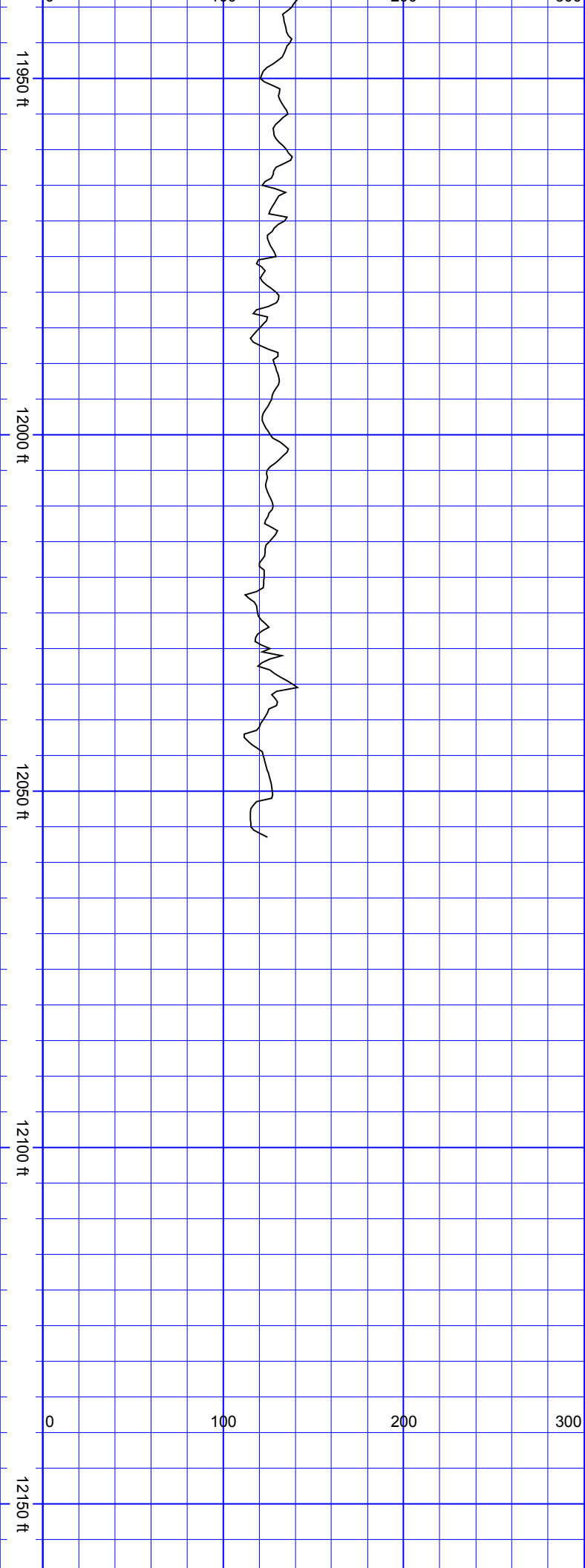




SurveyDepth:11549
TVD:7629.29 Inc:89.3
Azi:87.99
VertSec:3937.55

SurveyDepth:11644
TVD:7630.89 Inc:88.77
Azi:87.55
VertSec:4032.47





SurveyDepth:12022 TVD:7628.94 Inc:90.31 Azi:90.89 VertSec:4410.37			
SurveyDepth:12051 TVD:7628.87 Inc:90 Azi:90.62 VertSec:4439.36			
Extrapolation to Bit SurveyDepth:12115 TVD:7628.87 Inc:90 Azi:90.62 VertSec:4503.36			

