



Build & Lateral

Job #:

185257

Well ID:

16190876

Scale:

5" = 100 ft

Type:

MD

Well Site Information

Crestone Peak Resources

Oil Company

S25-T1N-R66W

Surface Location

Sam 3K-25H-M166W

Well Name

05-123-46121- 00

API

DJ Basin

Field

Colorado

State

USA

Country

Surface Coordinates

Well Type

Horizontal

Latitude

40° 01' 7 N

Longitude

104° 44' 2 W

N / S Coordinates

1,250,556.58 usft

E / W Coordinates

3,214,577.00 usft

Azimuth Reference

True North

Grid Convergence

0.51°

MWD Engineers

Lead Hand

Ron Kenyon

Second Hand

Riely 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

ft

Spud Date

Sep/08/2018

End Date

Sep/12/2018

(MD) Log Interval

Start Depth

2,381.10 ft

End Depth

11,937.26 ft

Bore Hole Record

Hole Size

From

To

13.50 in

0.00 ft

2,440.00 ft

8.50 in

2,440.00 ft

11,937.00 ft

Casing Record

Type

Size

WGT

From

To

LT&C

9.63 in

40 lbs/ft

0.00 ft

2,440.00 ft

DWC/C-I-S

5.50 in

20 lbs/ft

0.00 ft

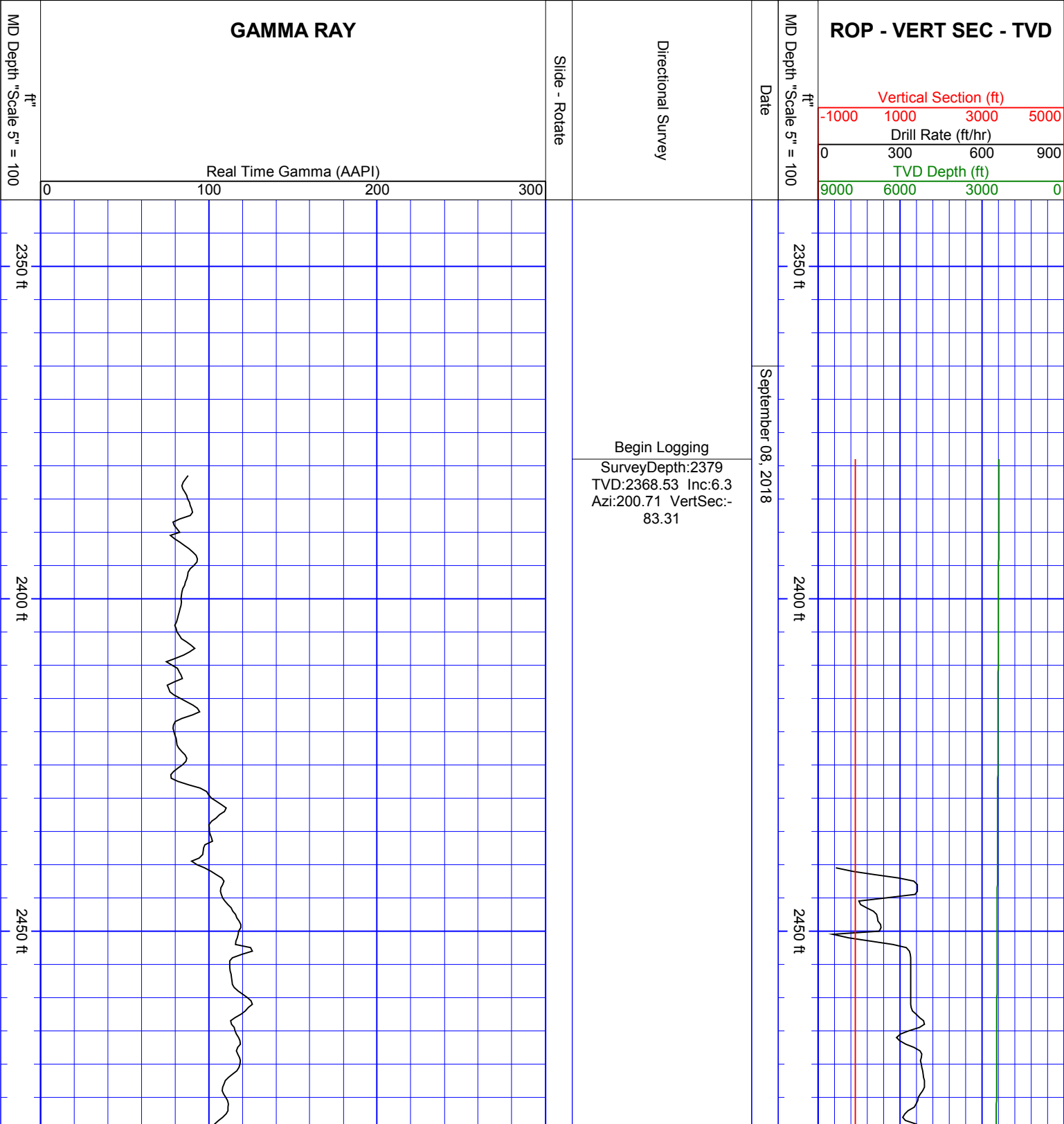
11,937.00 ft

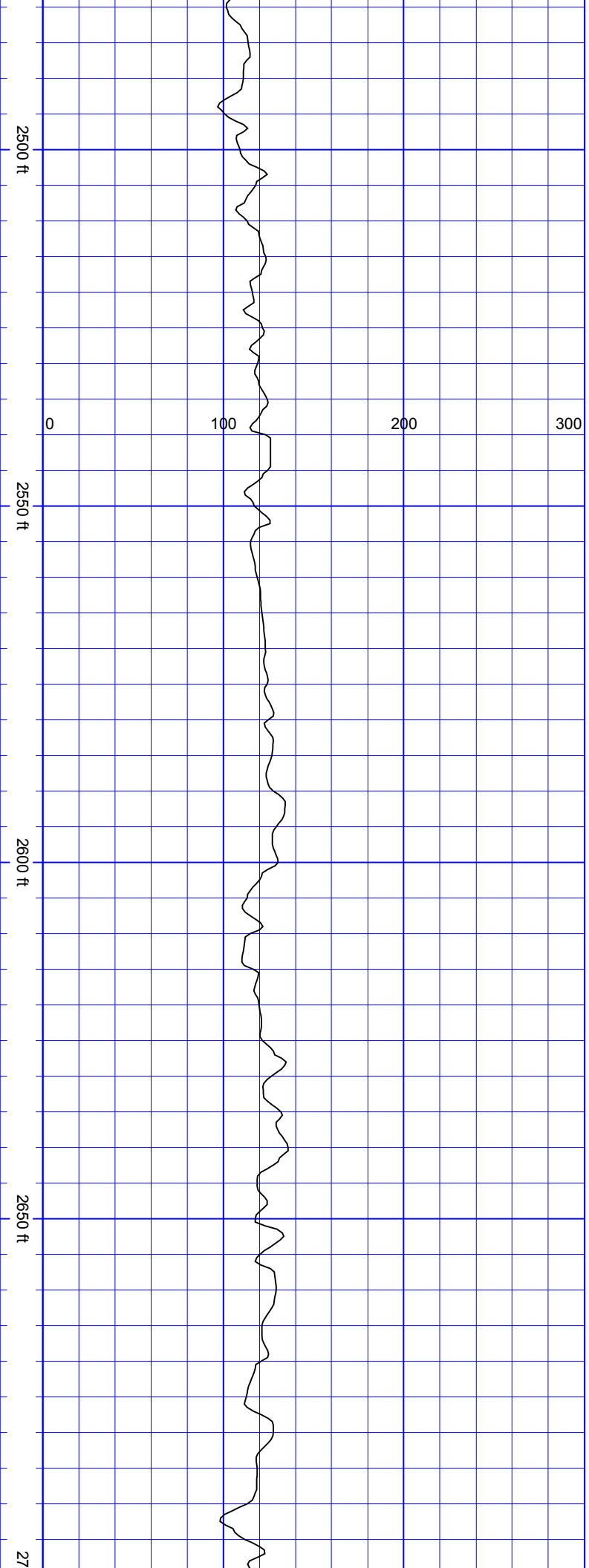
Run Data

Bit Run Number	1	2	3		
Start Date & Time	Sep/08/2018 16:30:00	Sep/09/2018 02:30:00	Sep/09/2018 08:00:00		
End Date & Time	Sep/09/2018 00:30:00	Sep/09/2018 08:00:00	Sep/11/2018 08:00:00		
Run Hours	17.00	5.50	48.00		
Depth In	2,440.00 ft	5,459.00 ft	5,459.00 ft		
Depth Out	5,459.00 ft	5,459.00 ft	11,937.00 ft		
Total Gamma Correction	5.67	5.67	5.67		
Gamma to Bit	59.91 ft	59.79 ft	59.79 ft		
Resistivity to Bit	N/A	N/A	N/A		
Mud Type	Oil Base	Oil Base	Oil Base		
Density	9.40 ppg	9.40 ppg	9.80 ppg		
Viscosity	52.00 sec/qt	52.00 sec/qt	45.00 sec/qt		
PH	N/A	N/A	N/A		
Fluid Loss	N/A	N/A	N/A		
K+ ppm	N/A	N/A	N/A		
CL- ppm	27,000.00 mg/L	27,000.00 mg/L	39,000.00 mg/L		
Max Mud Temp	133.33 °F	133.33 °F	230.00 °F		
Mud Report Depth	2,424.00 ft	2,424.00 ft	10,287.00 ft		

Remarks

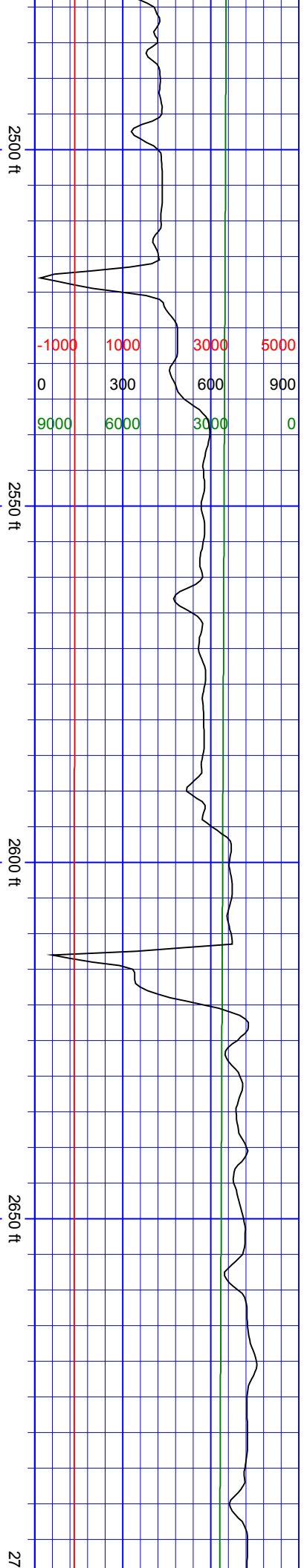
Interpretations of this data by Cathedral Energy Services will be of best judgment as to correctness. Cathedral Energy Services cannot and does not guarantee the accuracy or correctness of interpretations or any surveys derived therefrom. Cathedral Energy Services makes no warranties of performance,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

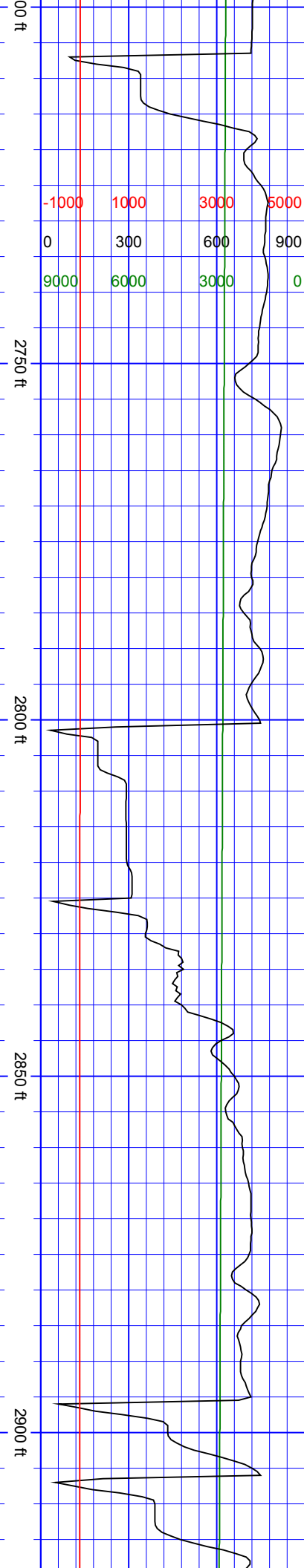




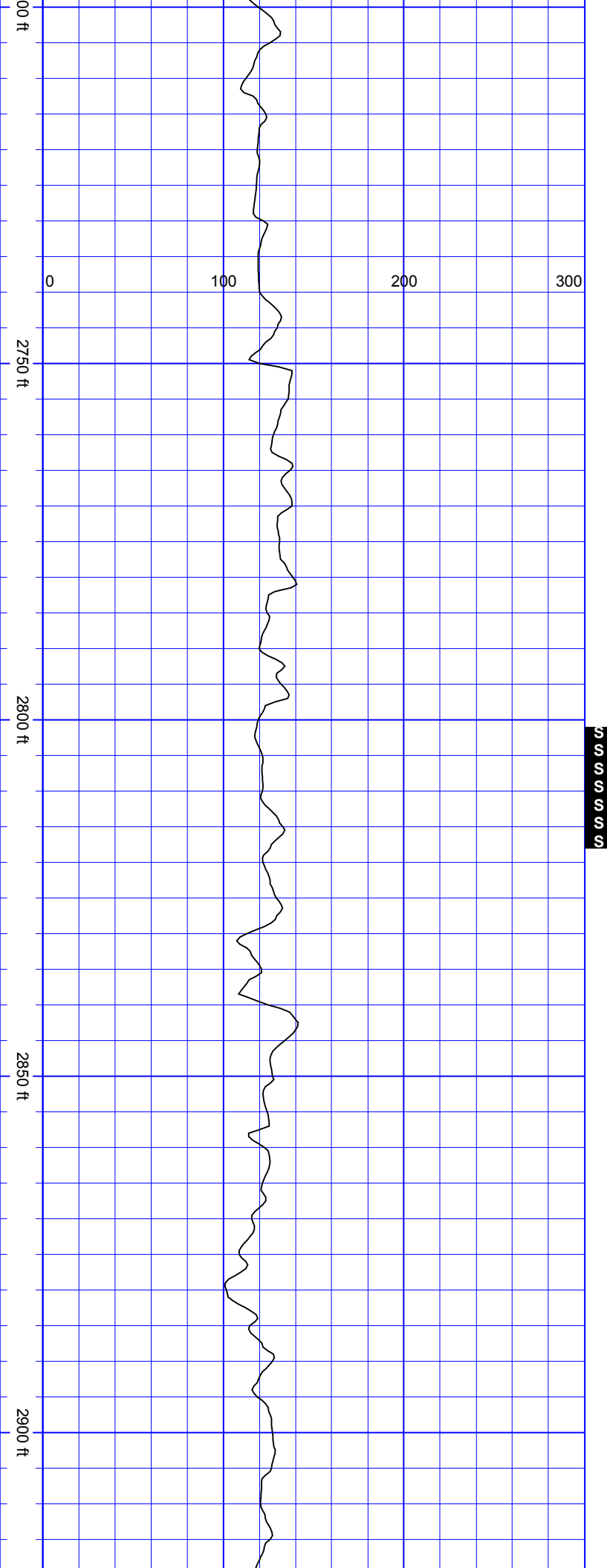
SurveyDepth:2547
TVD:2535.51 Inc:6.33
Azi:203.3 VertSec:-90.25

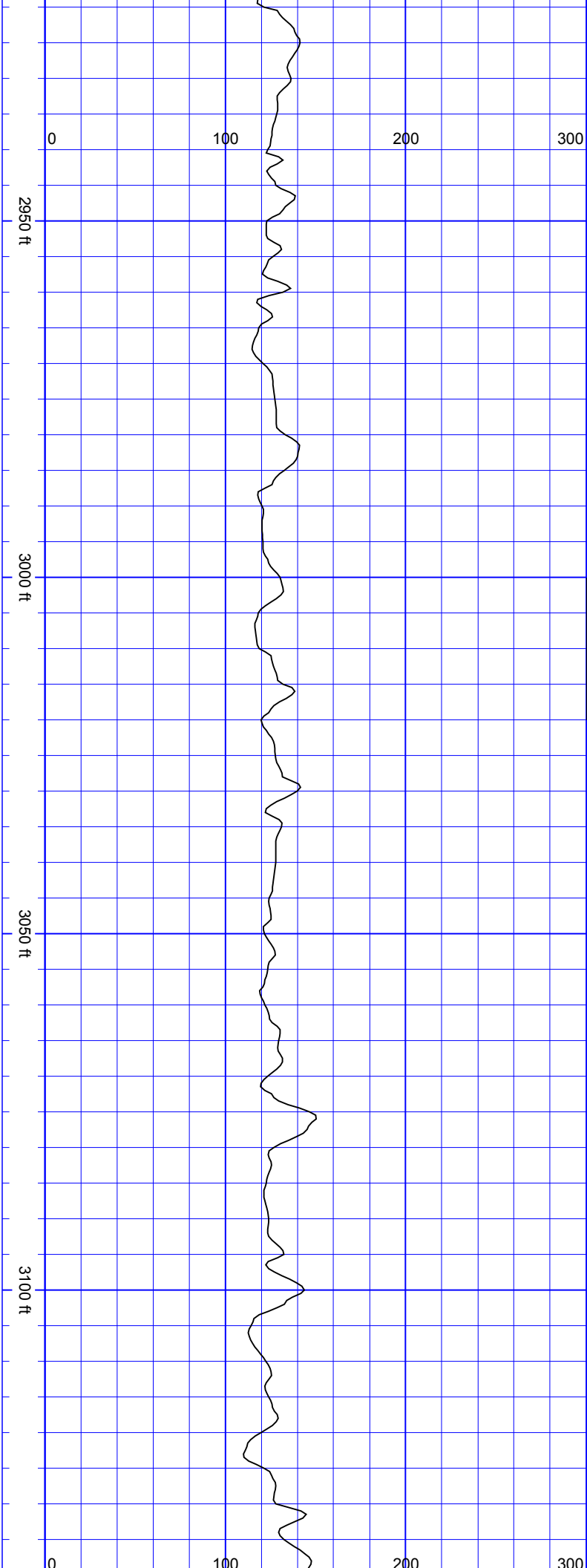
SurveyDepth:2641
TVD:2629 Inc:5.58
Azi:203.47 VertSec:-94.13





SurveyDepth:2841
TVD:2828.11 Inc:5.32
Azi:220.7 VertSec:-
104.07

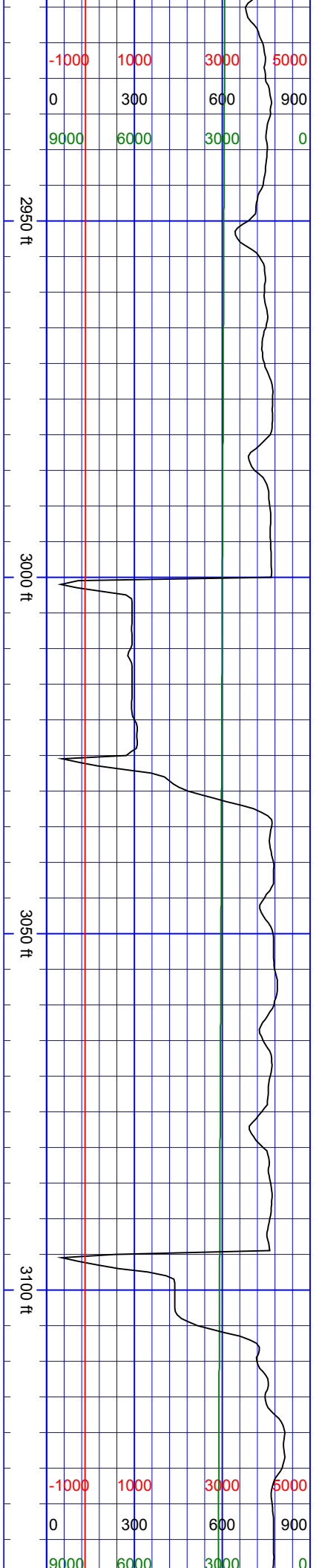


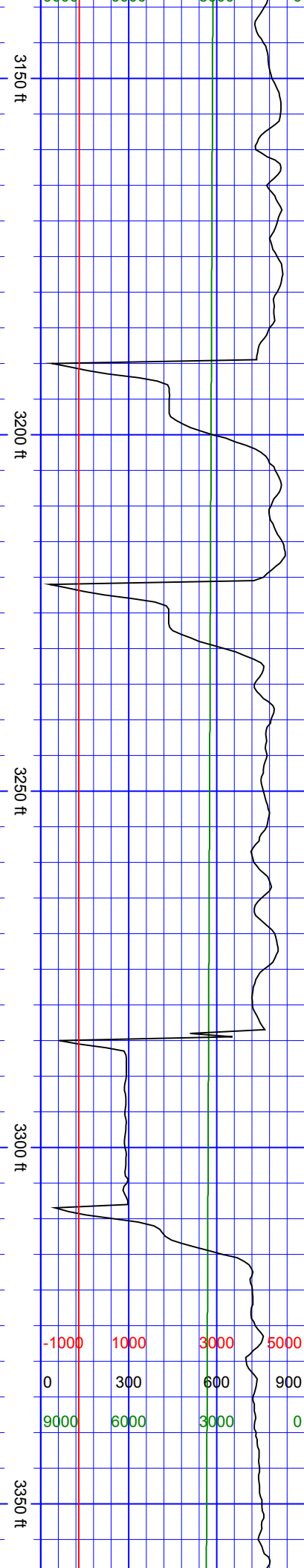


SurveyDepth:2935
TVD:2921.73 Inc:5.01
Azi:221.49 VertSec:-109.64

SurveyDepth:3030
TVD:3016.27 Inc:6.28
Azi:213.41 VertSec:-115.26

SurveyDepth:3124
TVD:3109.76 Inc:5.63
Azi:214.9 VertSec:-120.74

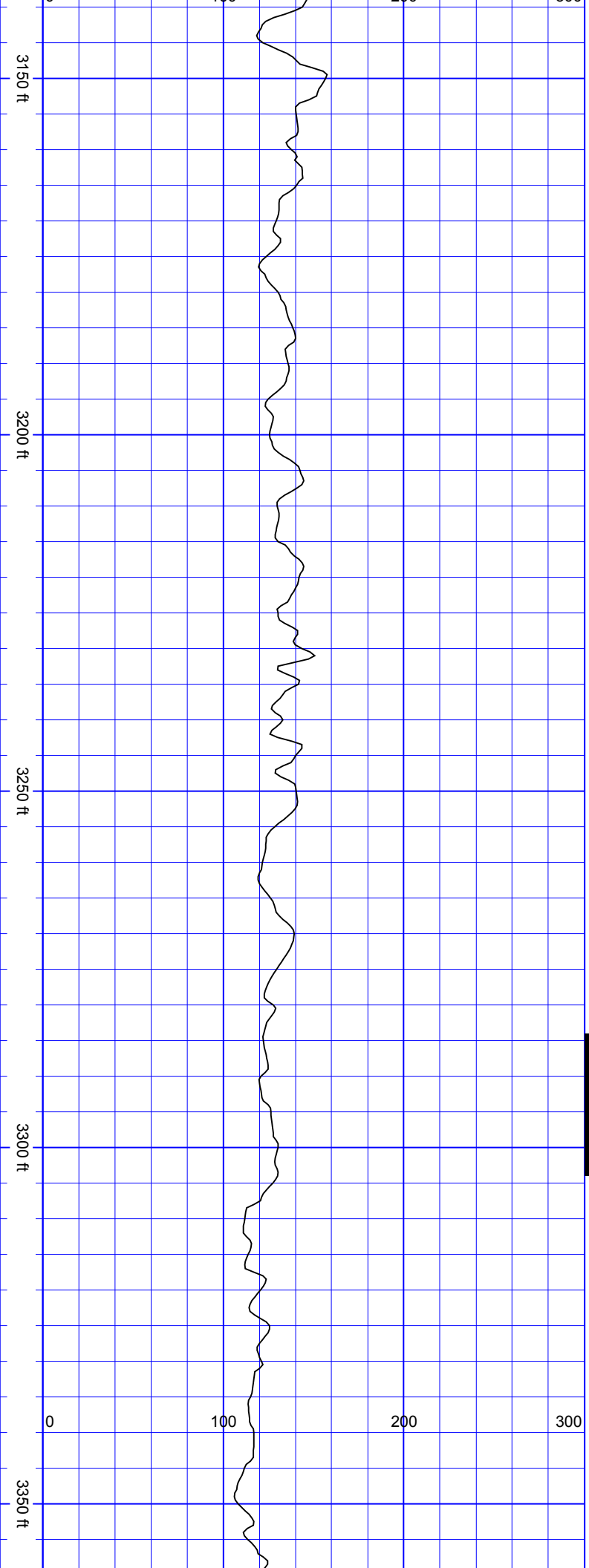


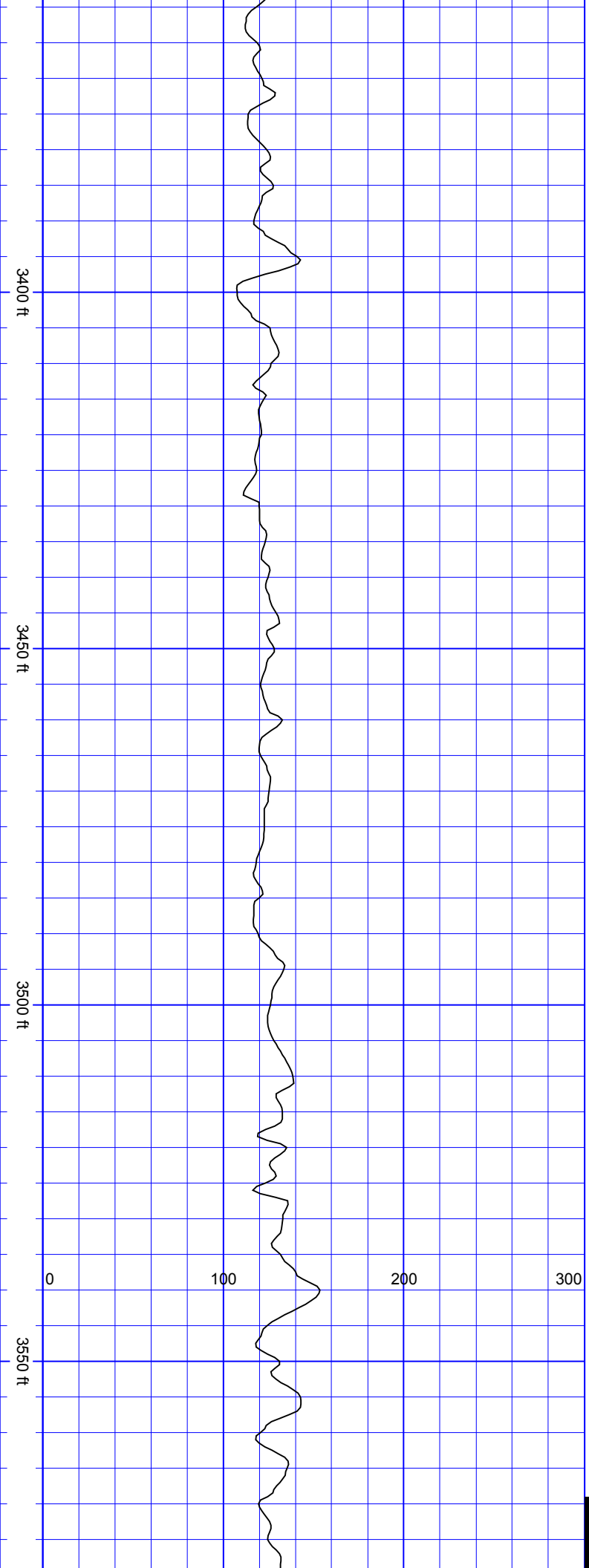


SurveyDepth:3219
TVD:3204.36 Inc:4.92
Azi:216.39 VertSec:-
125.84

SurveyDepth:3314
TVD:3298.87 Inc:6.64
Azi:216.74 VertSec:-
131.55

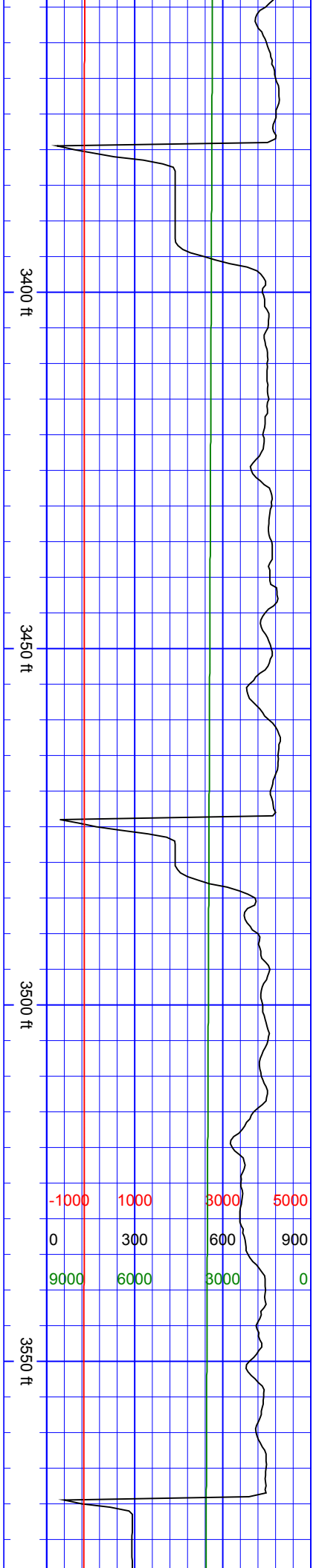
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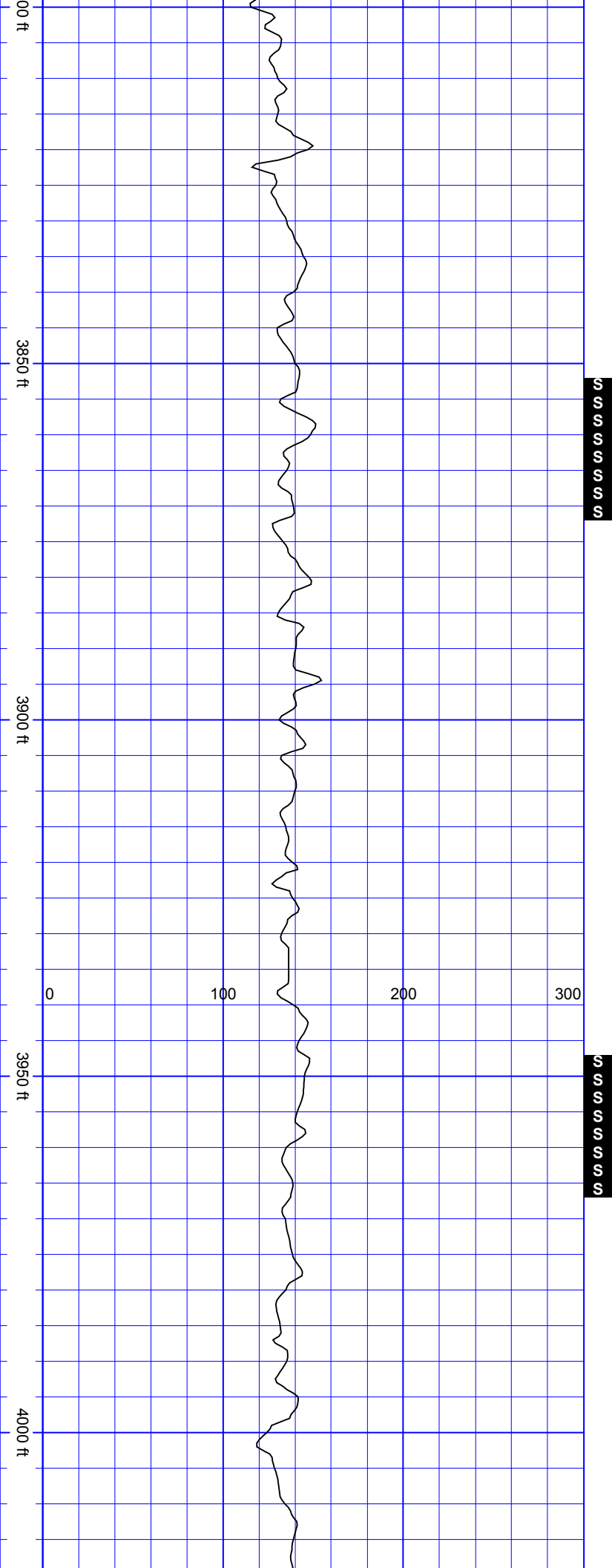


SurveyDepth:3408
TVD:3392.3 Inc:6.06
Azi:217.27 VertSec:-137.82

SurveyDepth:3504
TVD:3487.84 Inc:5.1
Azi:221.4 VertSec:-143.72

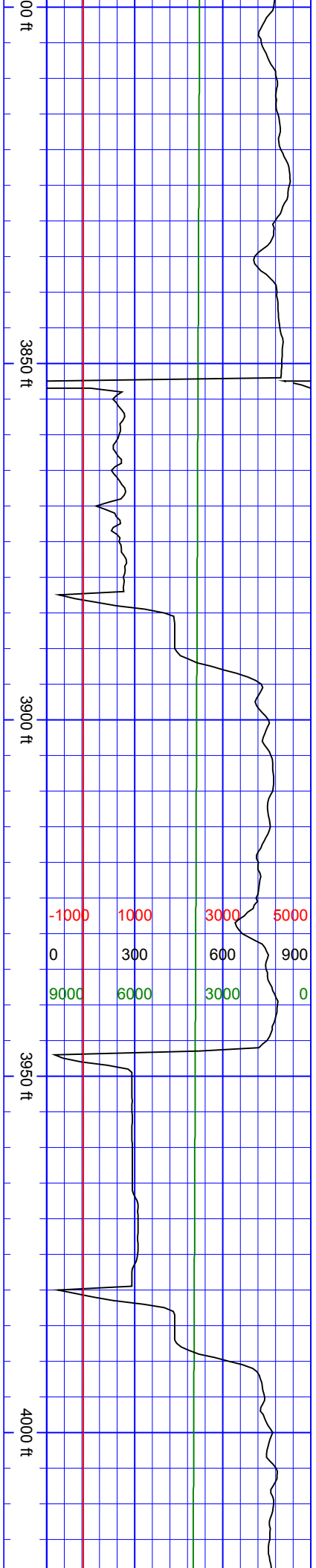


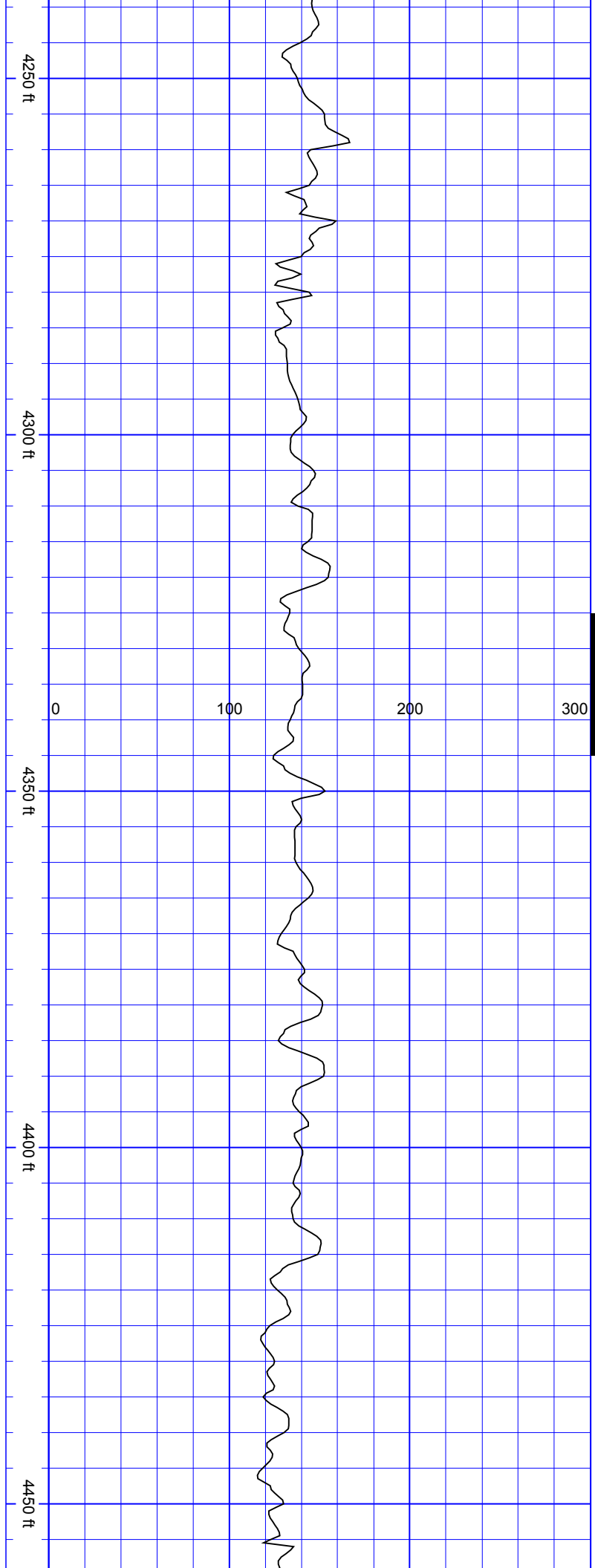
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SurveyDepth:3882
TVD:3864.19 Inc:5.58
Azi:198.38 VertSec:-
160.27

SurveyDepth:3976
TVD:3957.65 Inc:6.72
Azi:195.21 VertSec:-
163.17

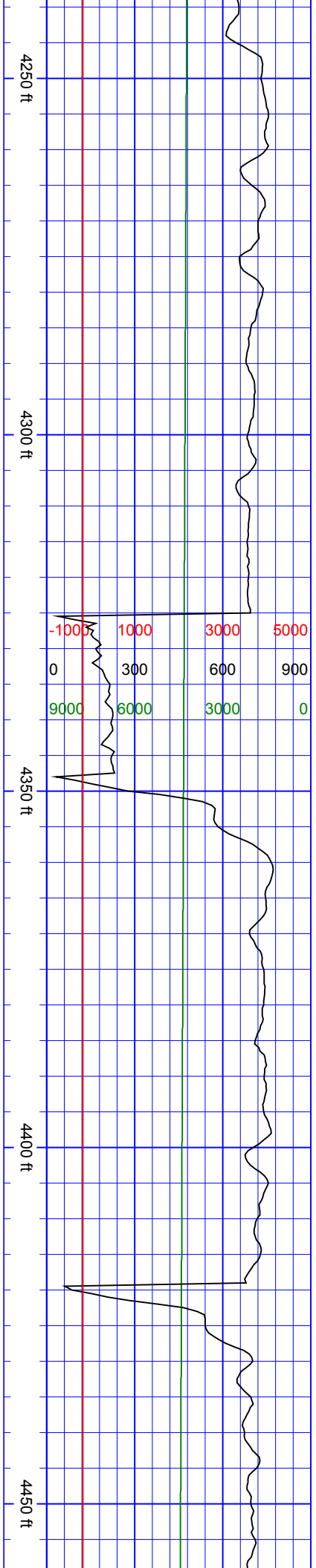


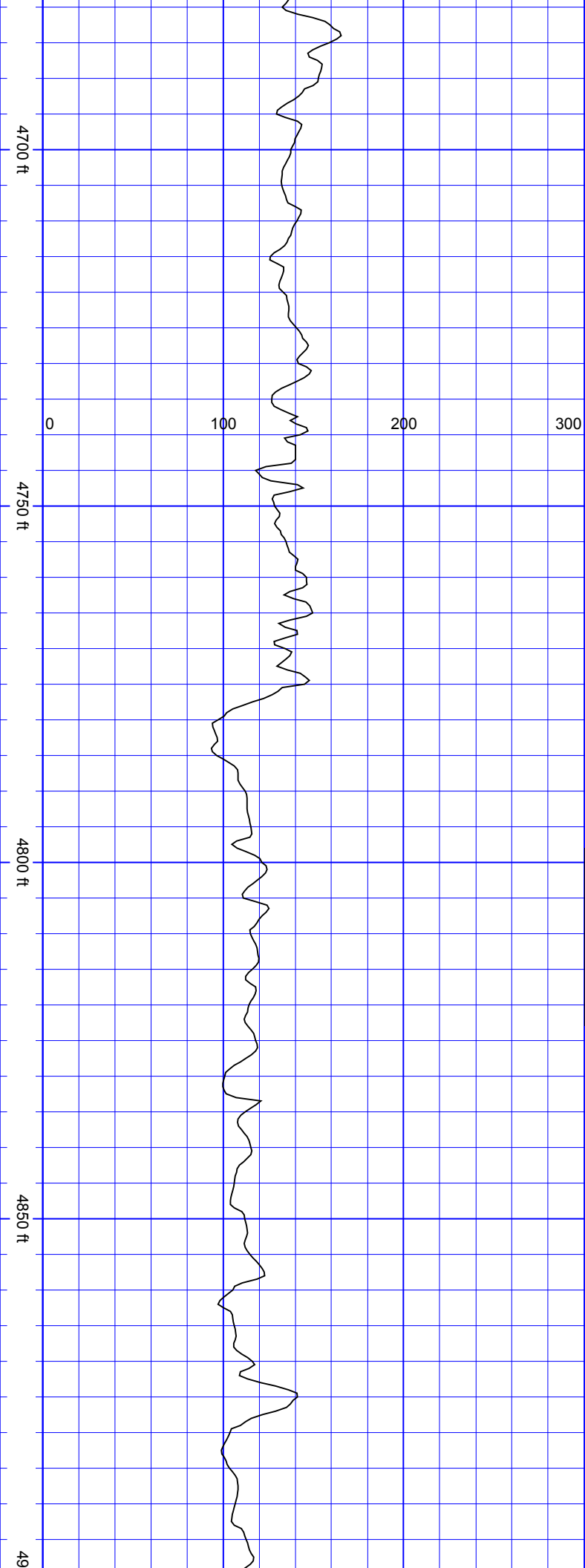


SurveyDepth:4260
TVD:4239.95 Inc:6.24
Azi:191.08 VertSec:-170.74

SurveyDepth:4355
TVD:4334.27 Inc:7.47
Azi:195.04 VertSec:-173.35

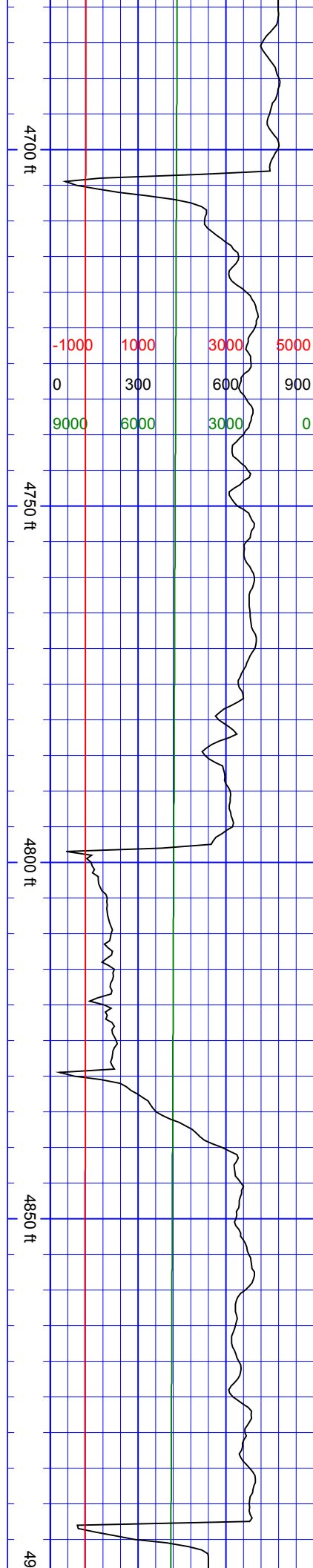
SurveyDepth:4449
TVD:4427.58 Inc:6.42
Azi:193.81 VertSec:-176.2

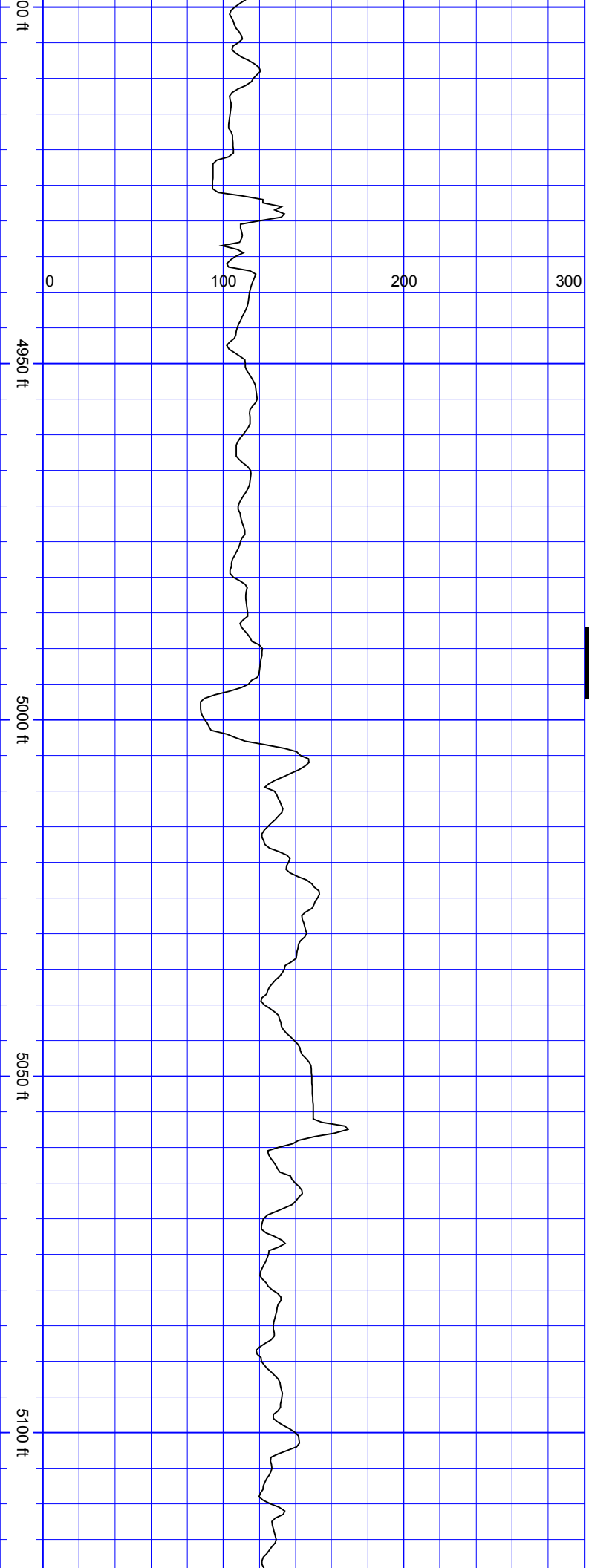




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SurveyDepth:4733 TVD:4709.46 Inc:5.93 Azi:221.58 VertSec:-191.07	SurveyDepth:4827 TVD:4802.68 Inc:8.75 Azi:216.22 VertSec:-198.54
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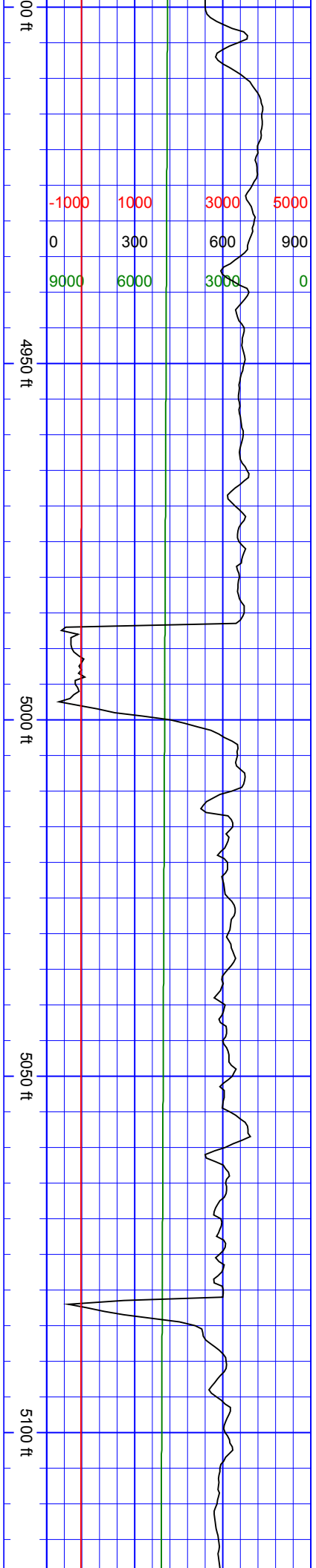


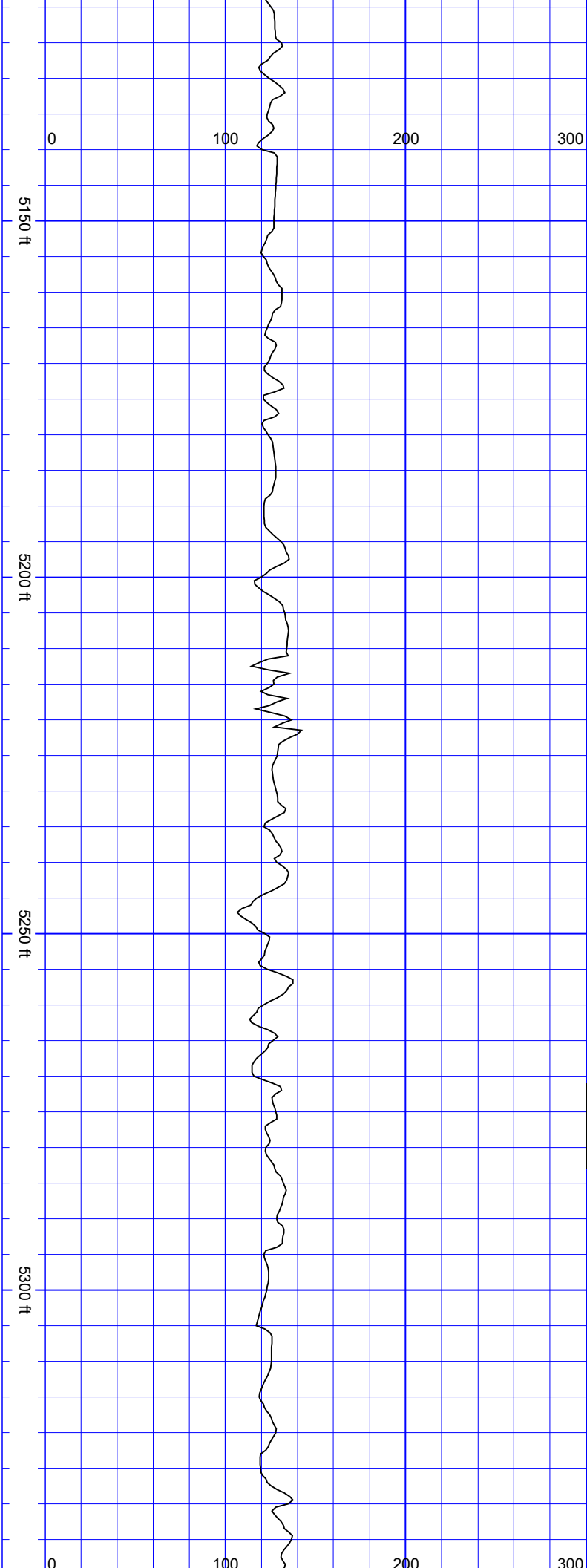


SurveyDepth:4922
TVD:4896.61 Inc:8.48
Azi:216.57 VertSec:-
206.99

SurveyDepth:5016
TVD:4989.68 Inc:7.65
Azi:207.08 VertSec:-
213.99

SurveyDepth:5111
TVD:5083.86 Inc:7.47
Azi:208.04 VertSec:-

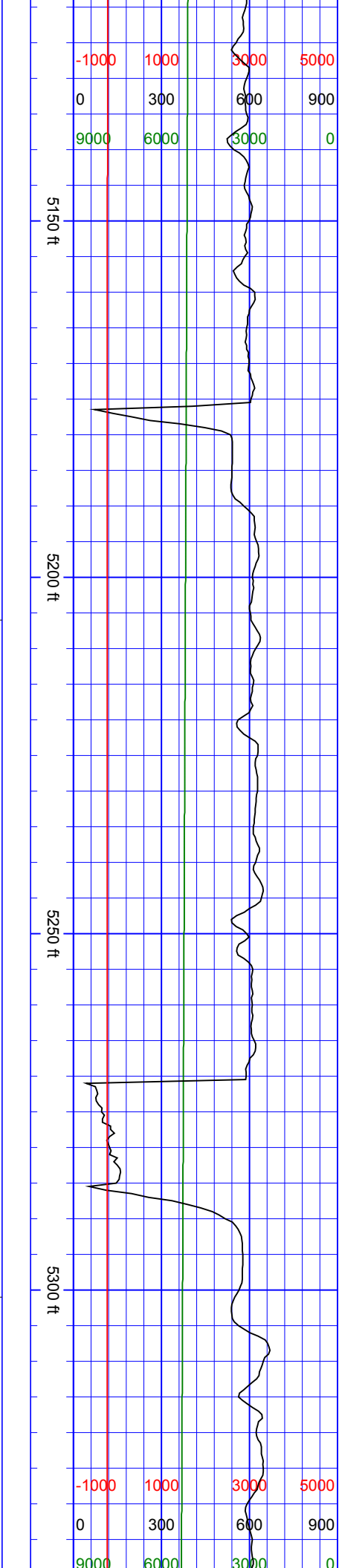


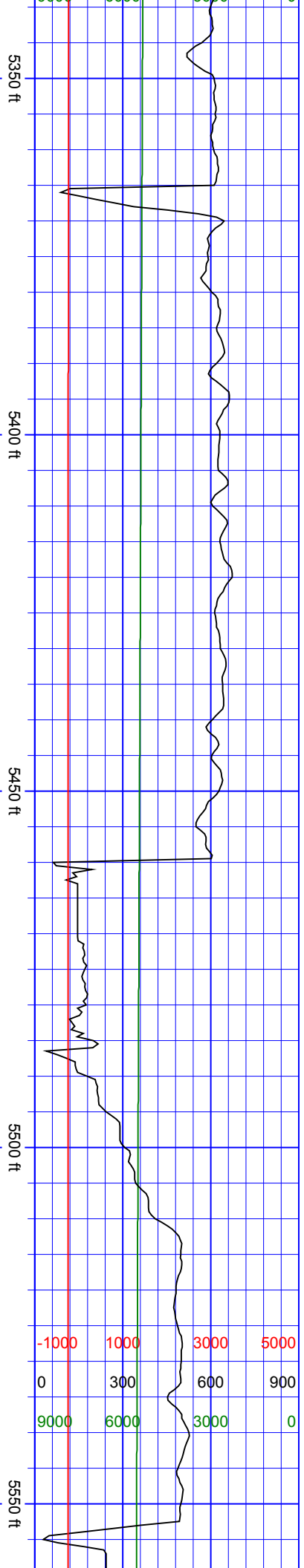


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219.79

SurveyDepth:5206
TVD:5178.2 Inc:5.93
Azi:208.92 VertSec:-
225.08

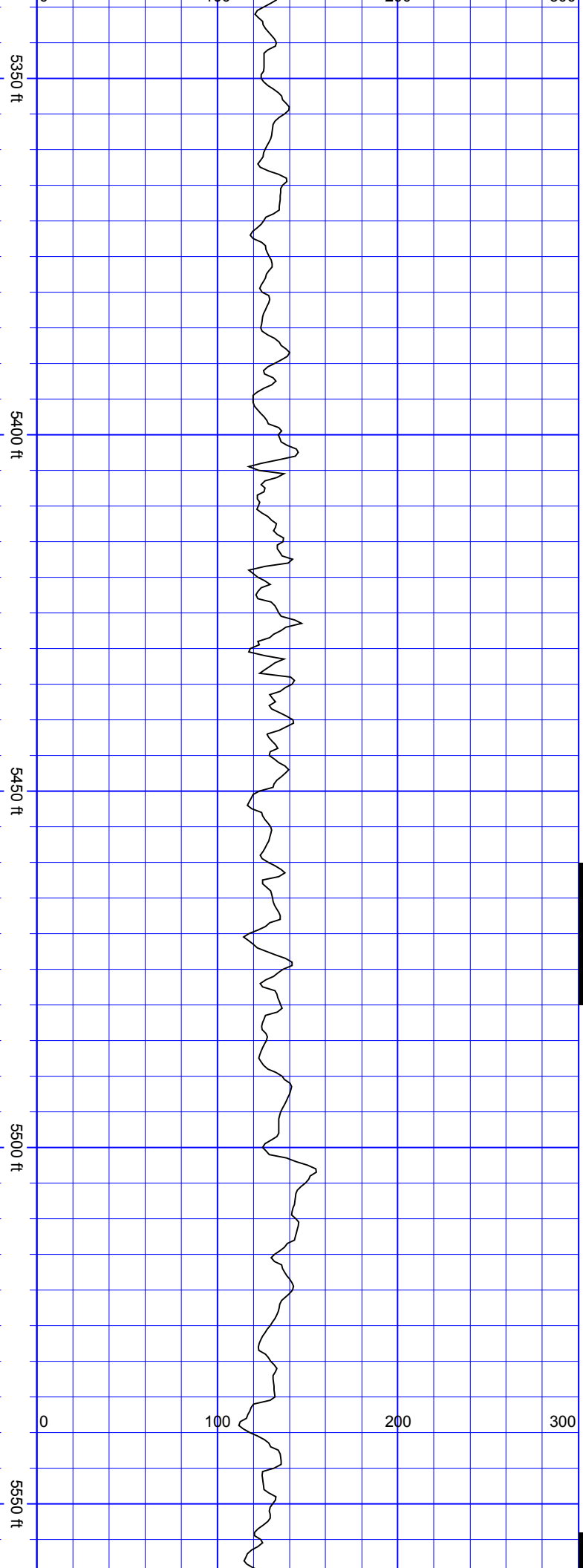


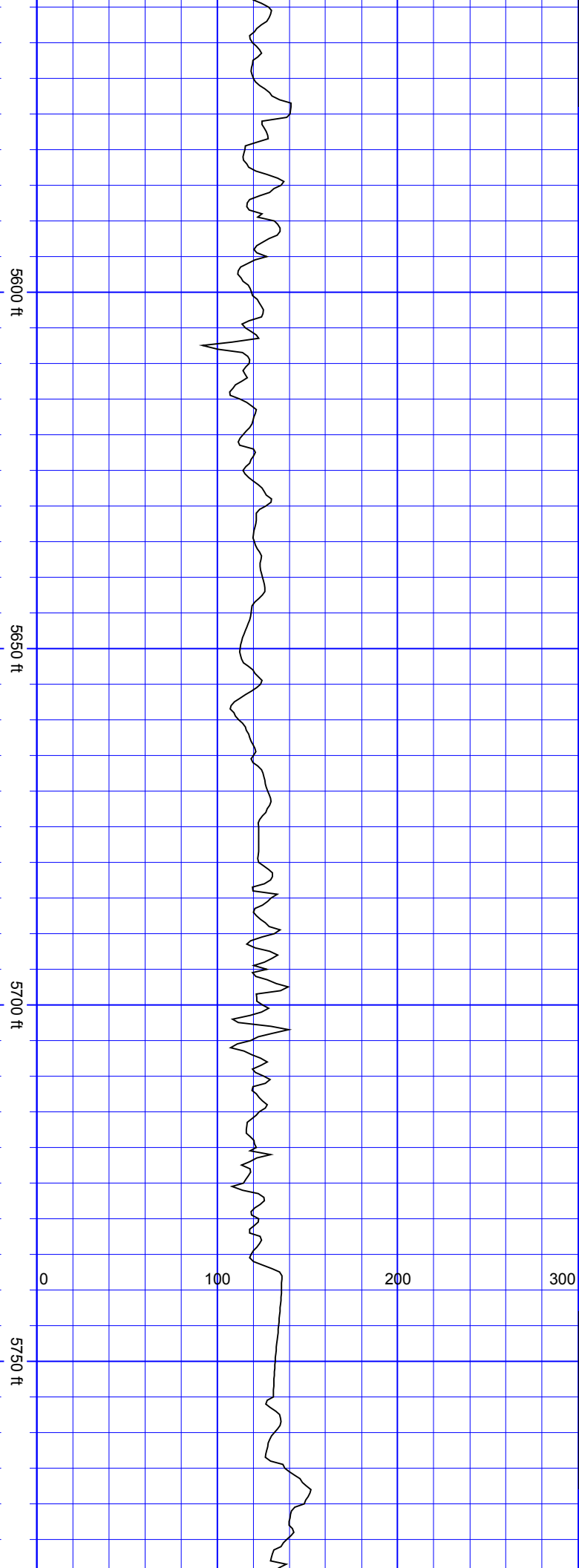


September 09, 2018

SurveyDepth:5395
TVD:5366.3 Inc:4.61
Azi:203.56 VertSec:-
232.56

SurveyDepth:5489
TVD:5459.92 Inc:5.71
Azi:201.19 VertSec:-
235.77

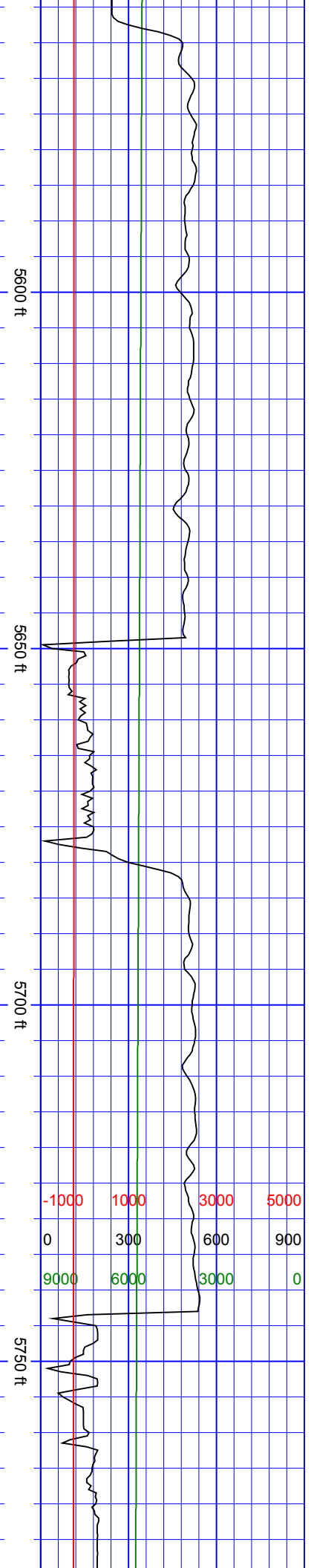


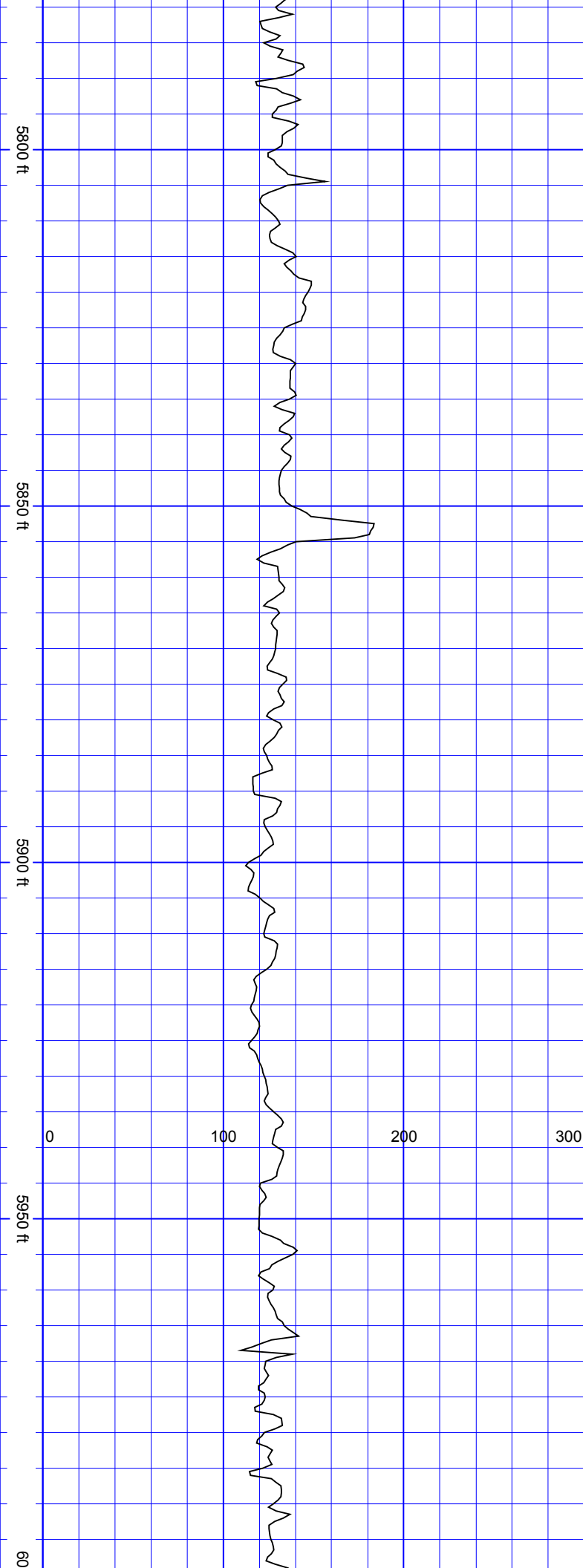


SurveyDepth:5584
TVD:5554.56 Inc:4.31
Azi:206.55 VertSec:-
239.08

SurveyDepth:5678
TVD:5648.22 Inc:5.41
Azi:205.58 VertSec:-
242.58

SurveyDepth:5773
TVD:5742.77 Inc:5.76
Az:102.9 Mast:0



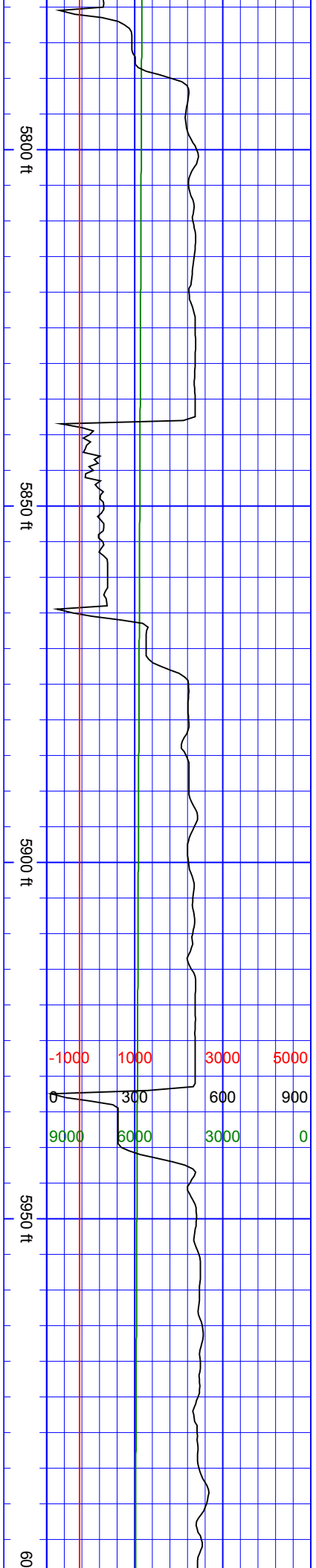


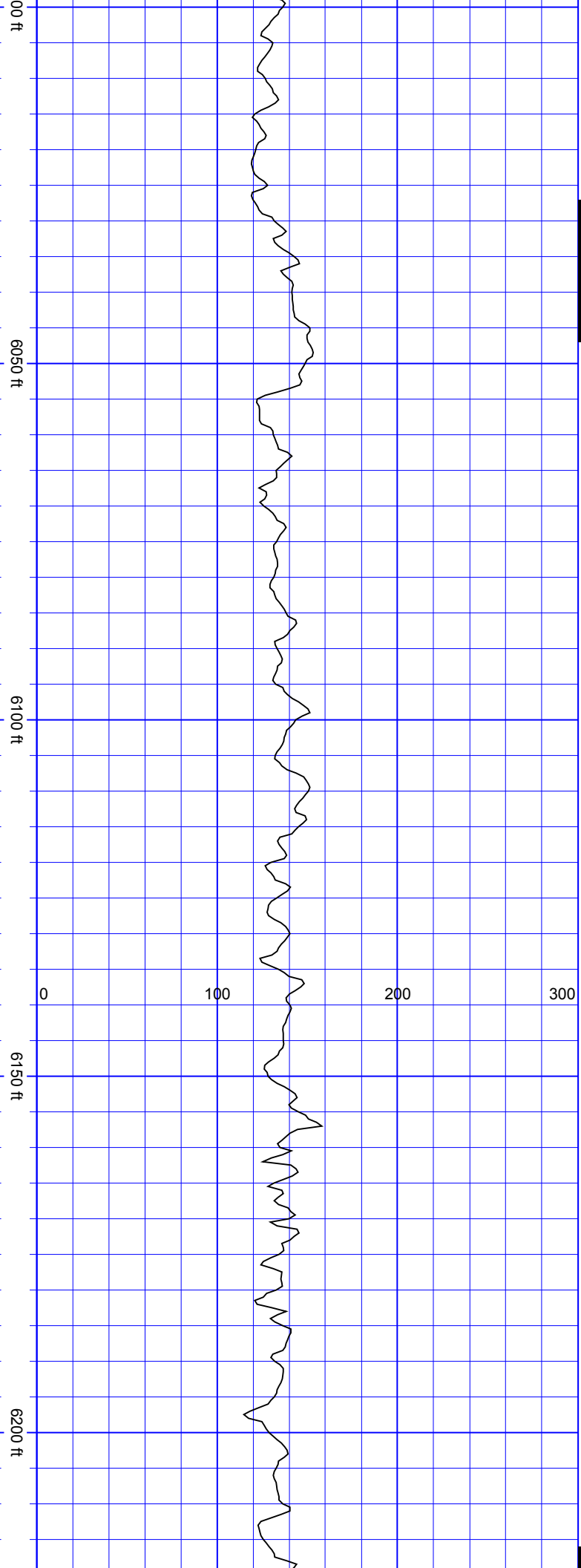
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Azi:198.2 VertSec:-246.02

SurveyDepth:5867
TVD:5836.19 Inc:6.99
Azi:193.01 VertSec:-248.79

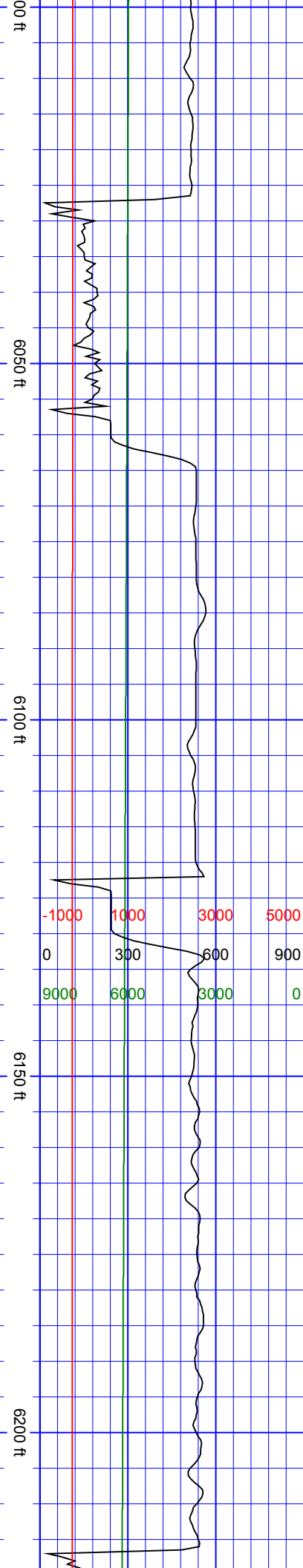
SurveyDepth:5962
TVD:5930.63 Inc:5.41
Azi:196.18 VertSec:-251.36

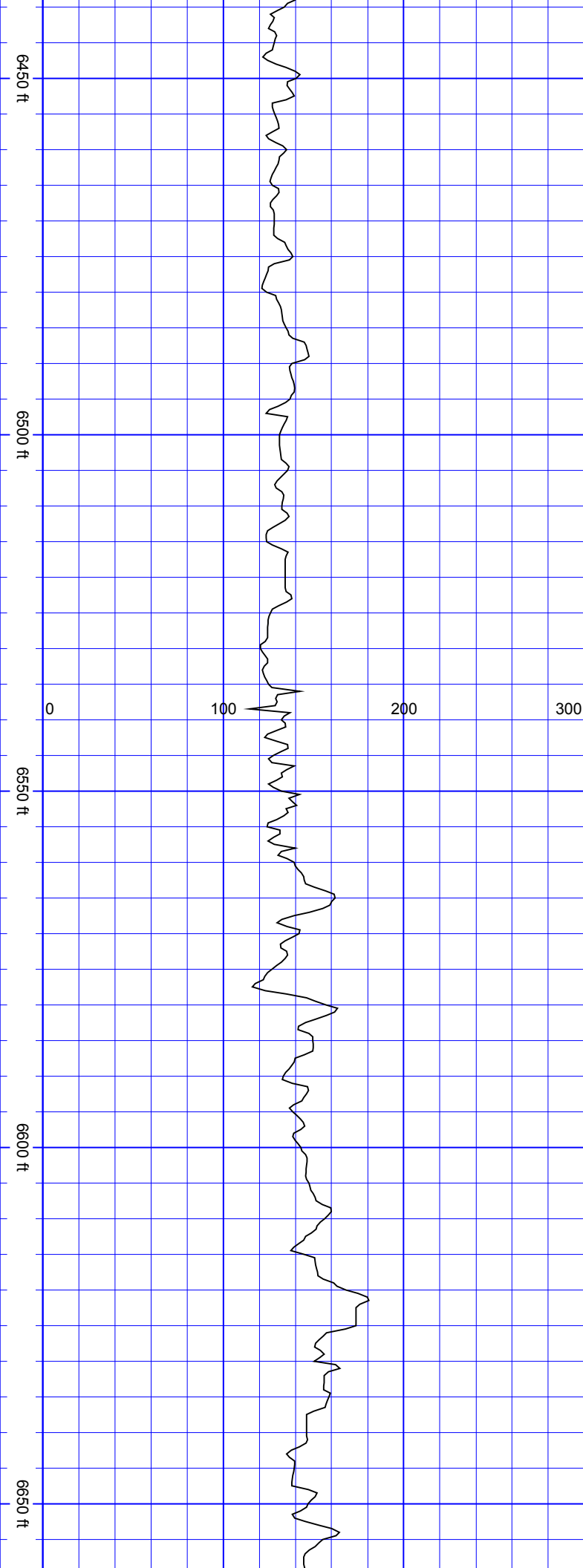




SurveyDepth:6057
TVD:6025.13 Inc:6.37
Azi:190.99 VertSec:-
253.62

SurveyDepth:6151
TVD:6118.71 Inc:4.31
Azi:193.01 VertSec:-
255.43



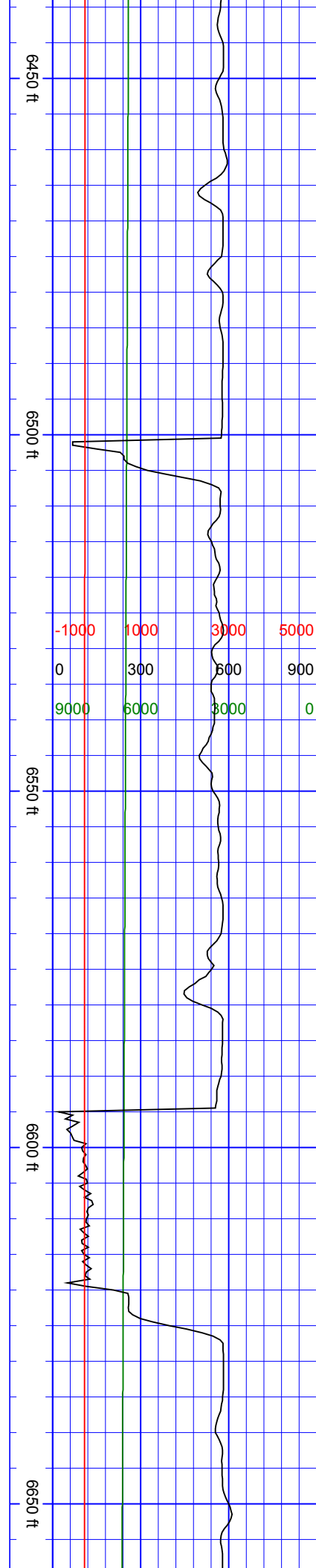


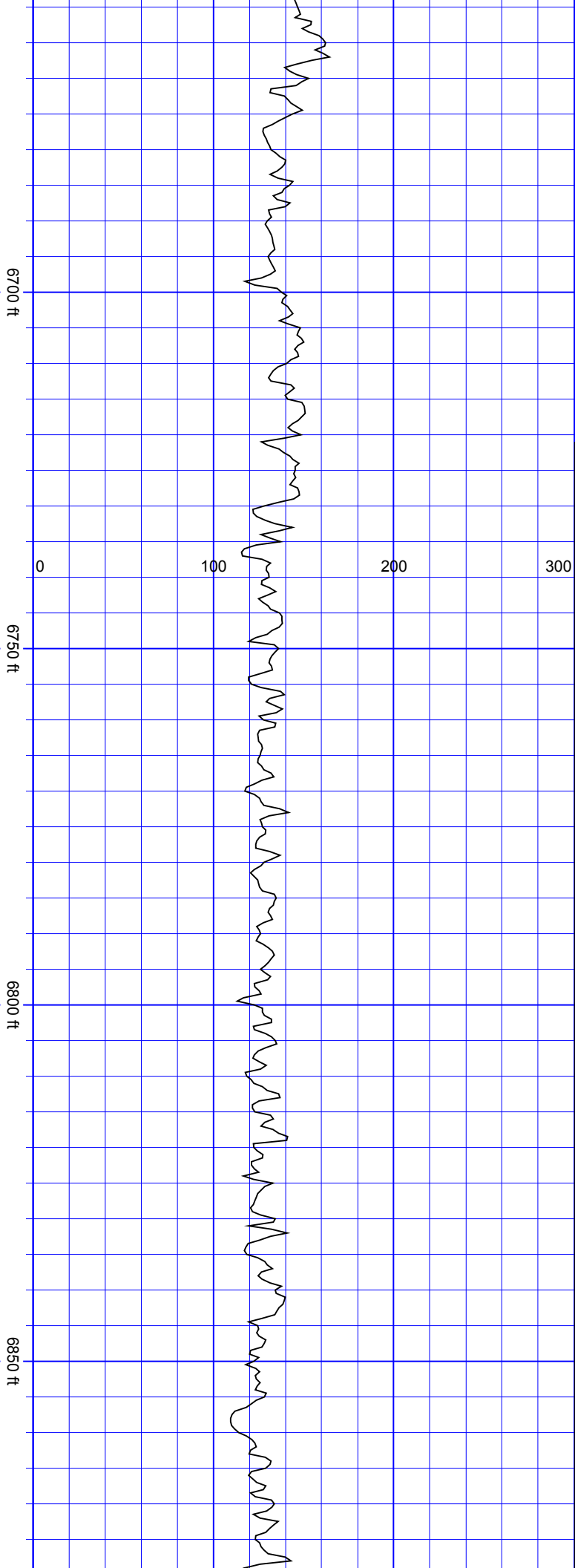
TVD:6496.16 Inc:4.09
Azi:202.51 VertSec:-262.05

SurveyDepth:6530
TVD:6496.16 Inc:4.09
Azi:199.08 VertSec:-265.21

SurveyDepth:6624
TVD:6589.87 Inc:4.83
Azi:200.22 VertSec:-267.69

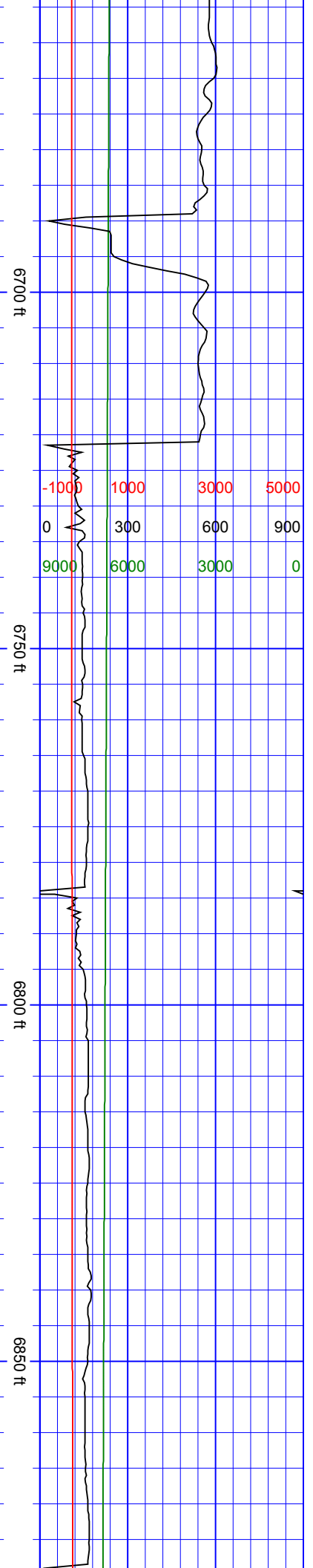
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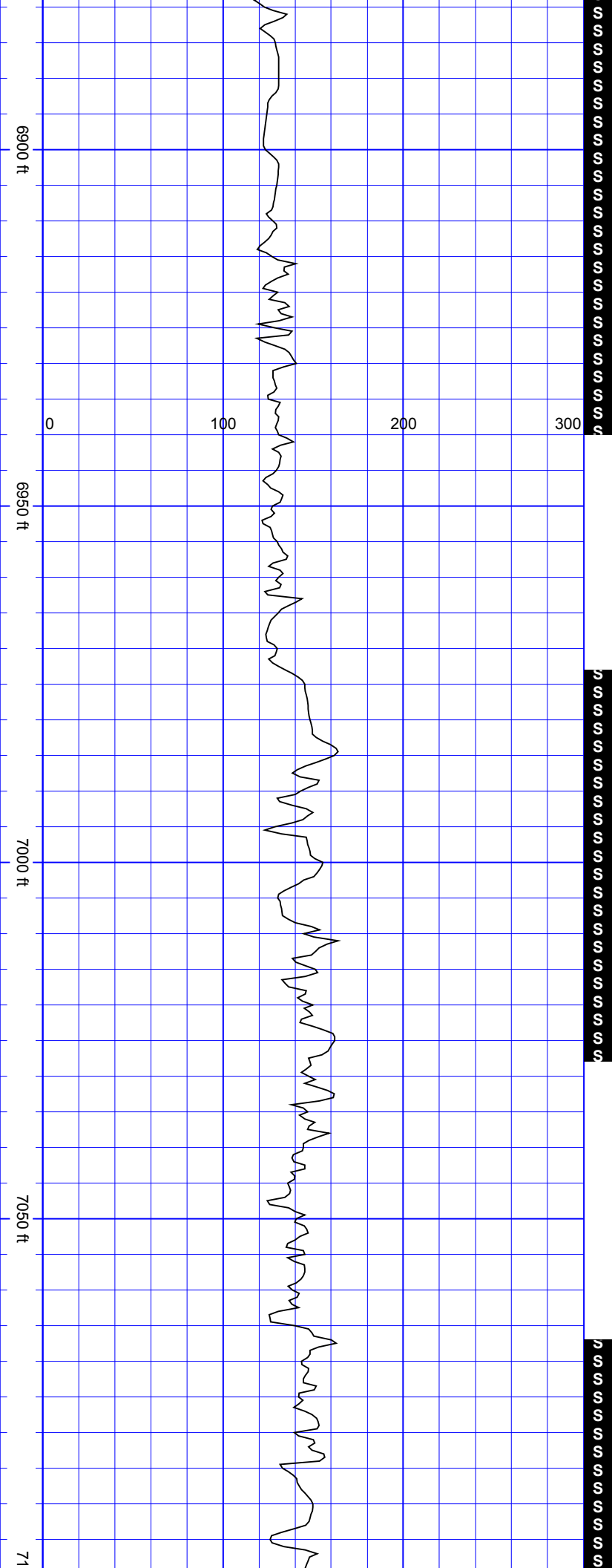




SurveyDepth:6719
TVD:6684.64 Inc:3.16
Azi:182.03 VertSec:-
269.17

SurveyDepth:6813
TVD:6777.81 Inc:11.73
Azi:136.94 VertSec:-
262.74

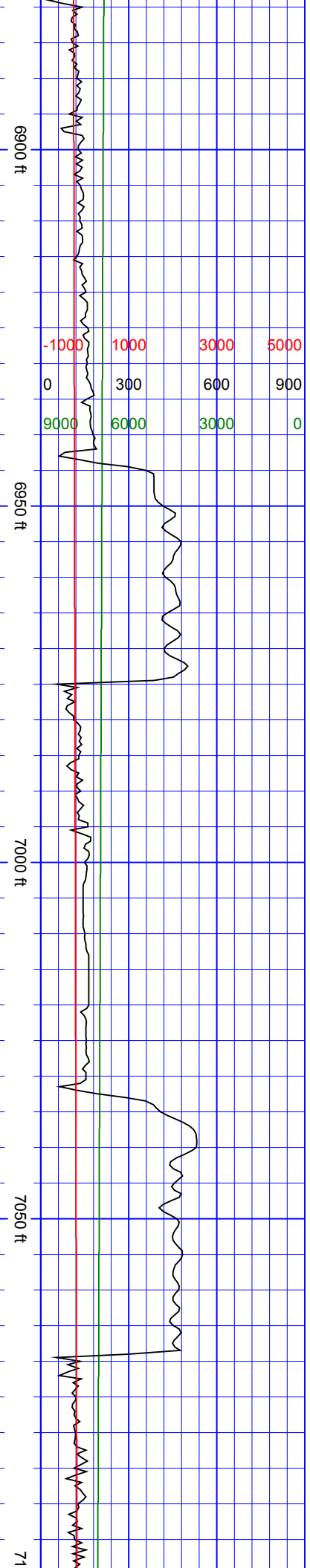




SurveyDepth:6908
TVD:6869.21 Inc:20
Azi:112.42 VertSec:-
241.08

SurveyDepth:7002
TVD:6956.83 Inc:22.54
Azi:103.01 VertSec:-
208.67

SurveyDepth:7096

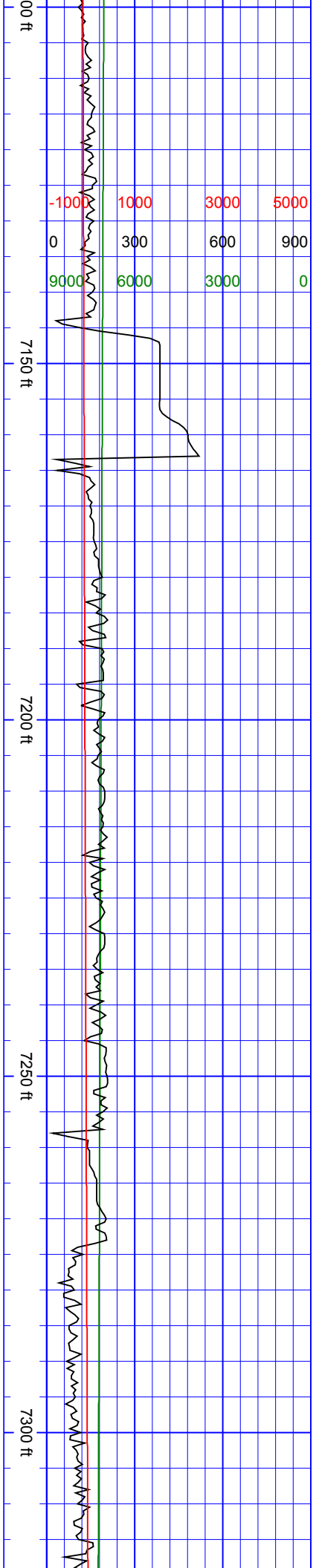
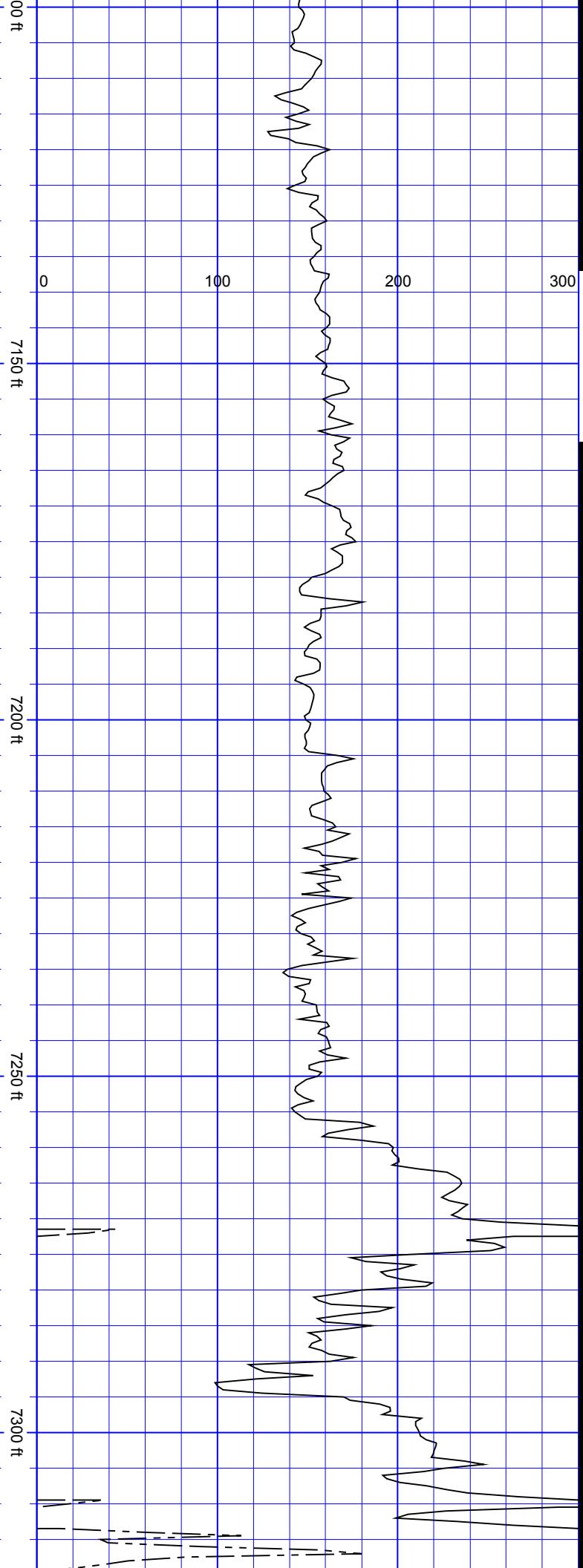


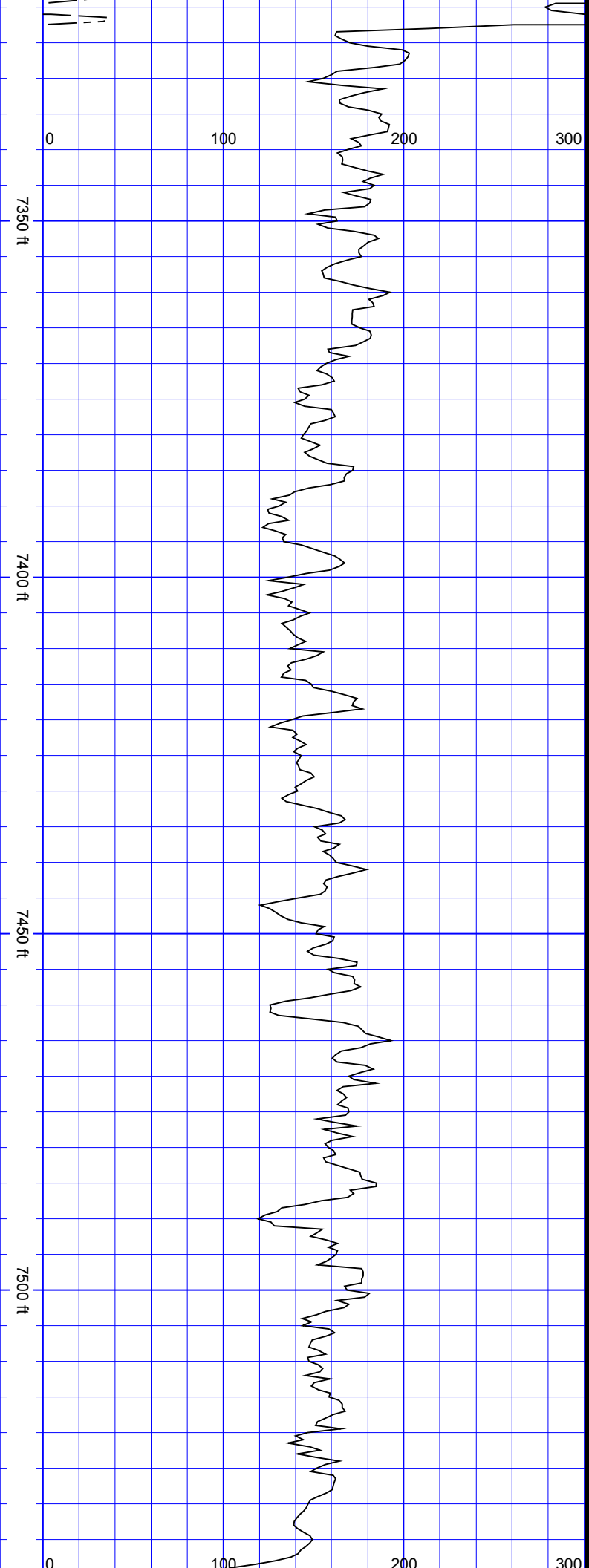
	-1000	1000	3000	5000
0	0	300	600	900
9000	6000	3000	0	

TVD:7043.37 Inc:23.47
Azi:95.81 VertSec:-
172.49

SurveyDepth:7191
TVD:7128.98 Inc:27.86
Azi:92.82 VertSec:-
131.48

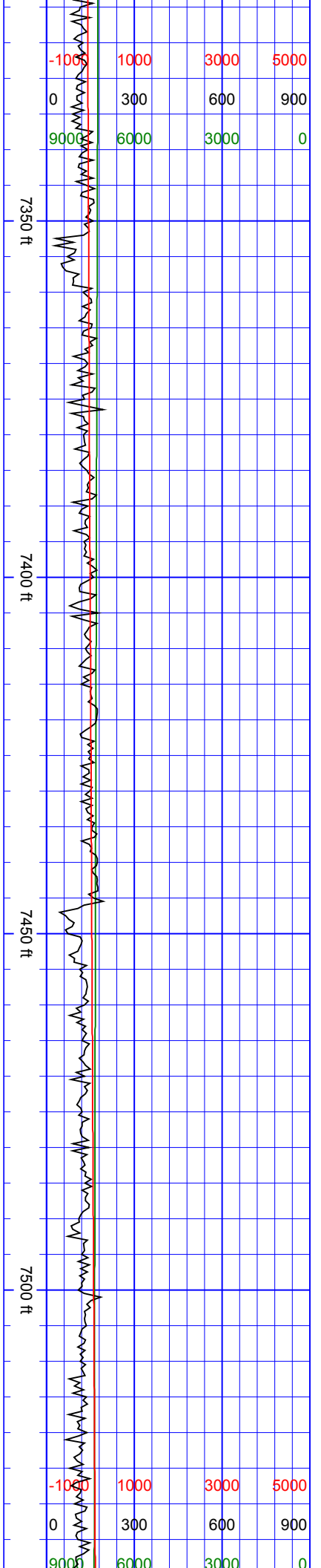
SurveyDepth:7286
TVD:7209.1 Inc:36.96
Azi:92.03 VertSec:-80.67

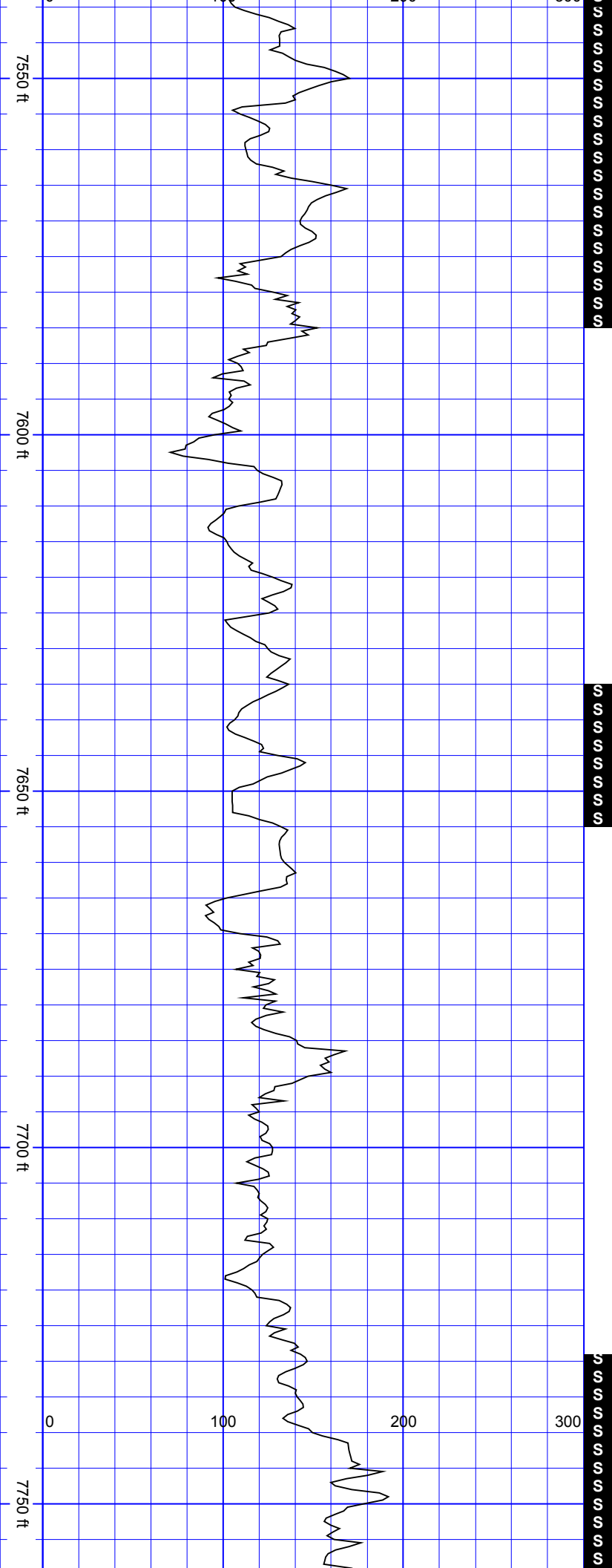




SurveyDepth:7380
TVD:7279.17 Inc:46.49
Azi:91.33 VertSec:-18.21

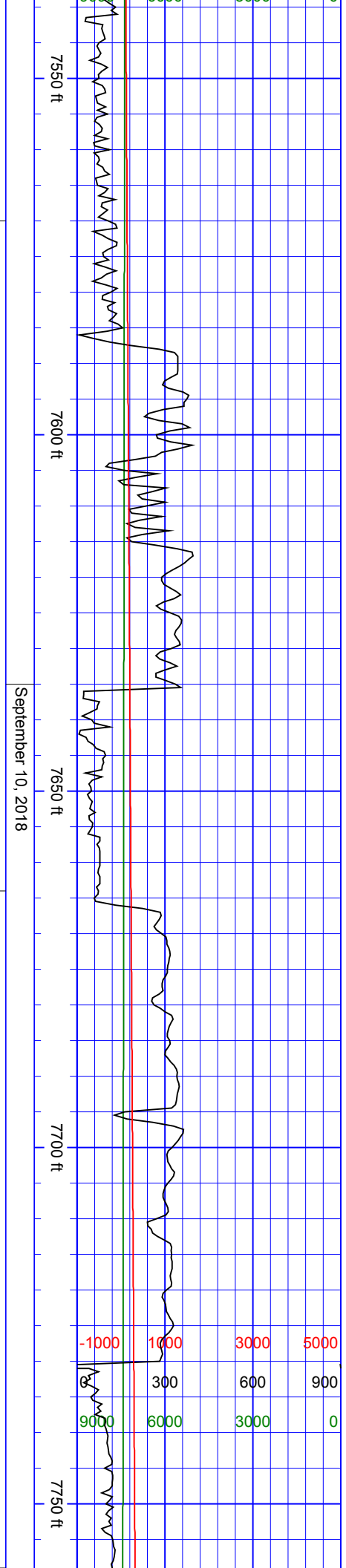
SurveyDepth:7475
TVD:7336.83 Inc:58.62
Azi:92.99 VertSec:57.01





SurveyDepth:7570
TVD:7376.27 Inc:72.2
Azi:93.79
VertSec:143.03

SurveyDepth:7664
TVD:7404.1 Inc:73.35
Azi:93.43
VertSec:232.63



September 10, 2018

SurveyDepth:7759
TVD:7429.3 Inc:75.89
Azi:93.61
VertSec:324.04

SurveyDepth:7853
TVD:7447.49 Inc:81.78
Azi:92.47
VertSec:416.08

SurveyDepth:7948
TVD:7458.9 Inc:84.42
Azi:90.53
VertSec:510.34

7800 ft

7850 ft

7900 ft

7950 ft

0 100 200 300

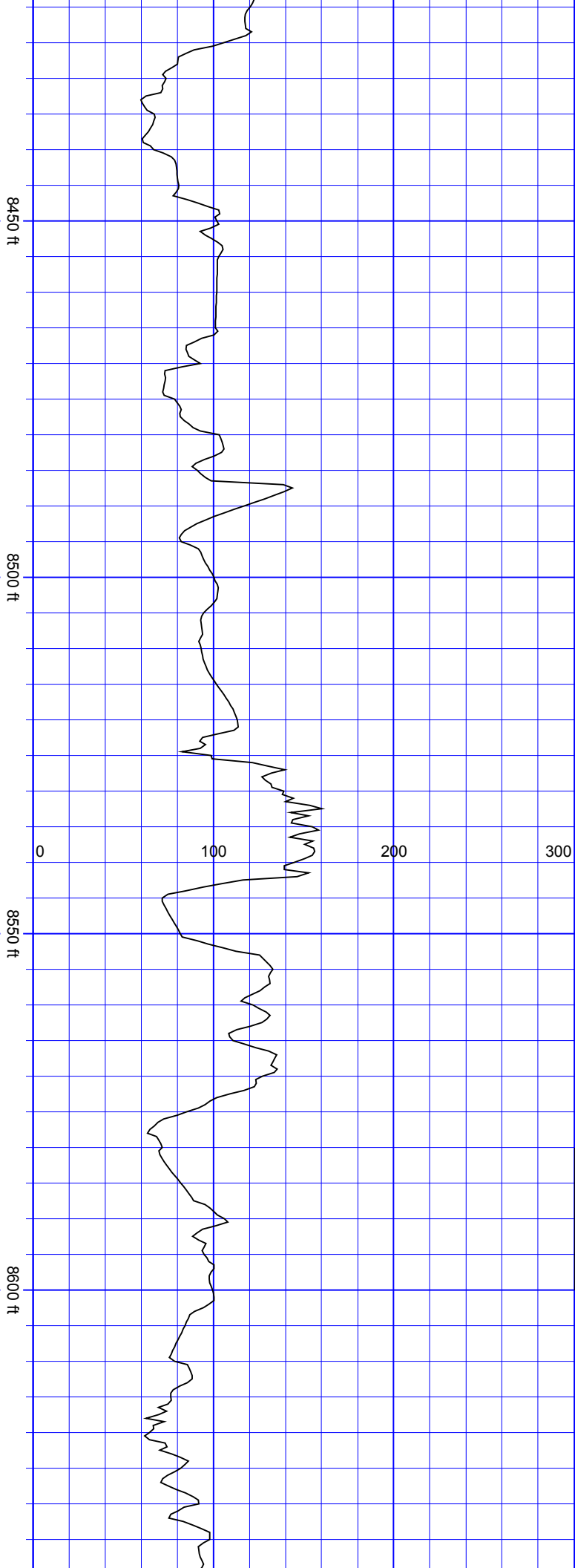
7800 ft

7850 ft

7900 ft

7950 ft

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

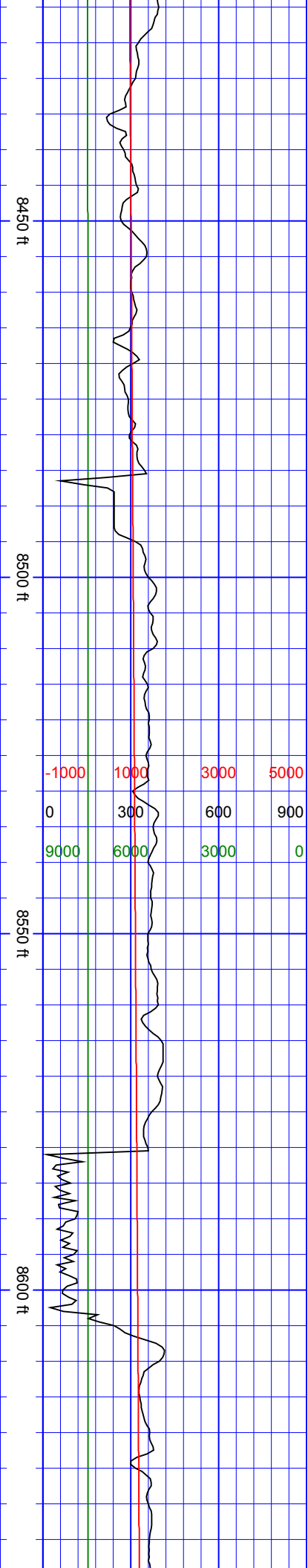


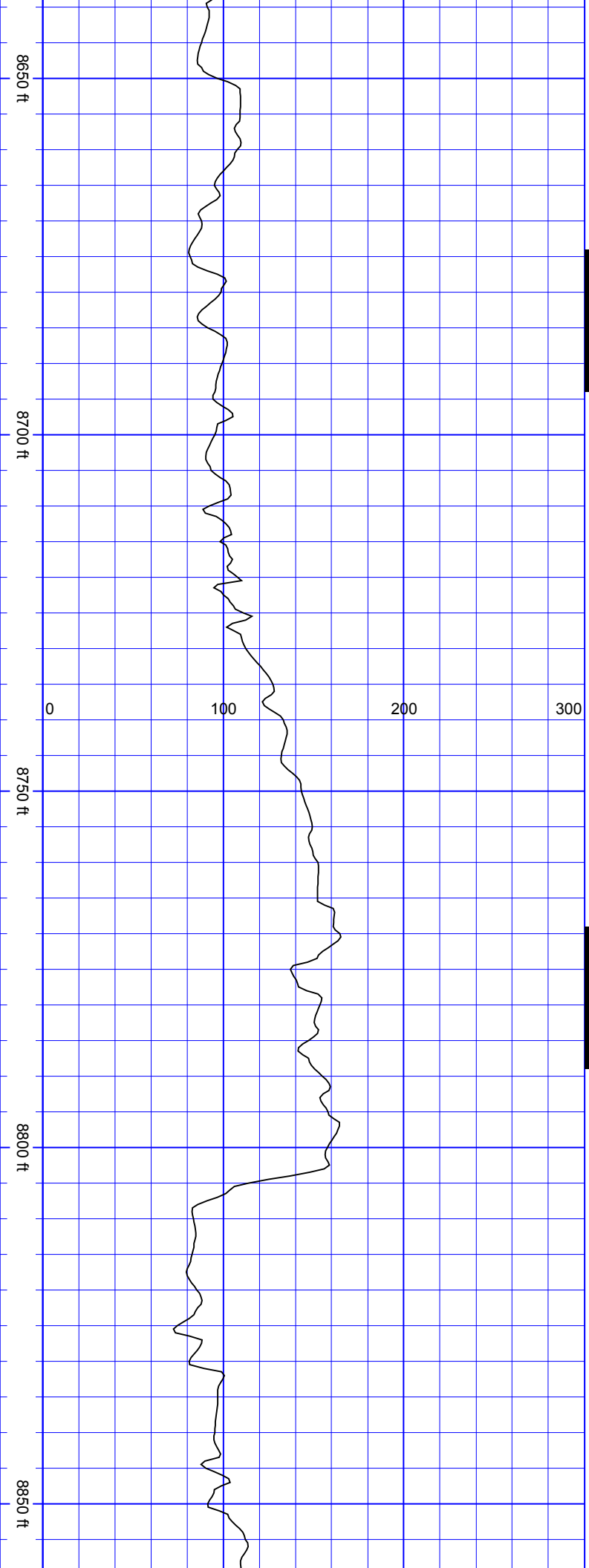
SurveyDepth:8421
TVD:7461.31 Inc:93.16
Azi:90.97
VertSec:982.68

SurveyDepth:8515
TVD:7455.05 Inc:94.48
Azi:90.62
VertSec:1076.46

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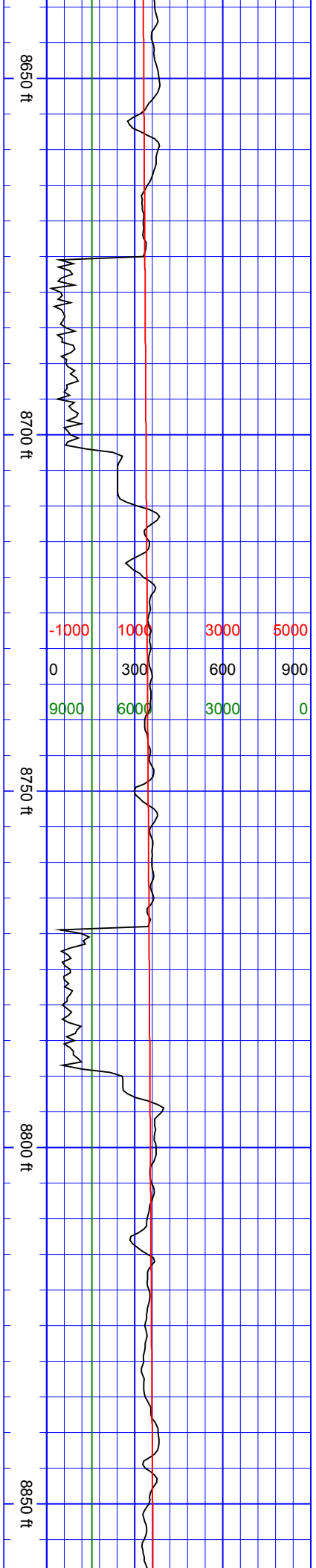
SurveyDepth:8609
TVD:7448.85 Inc:93.08
Azi:88.69
VertSec:1170.25

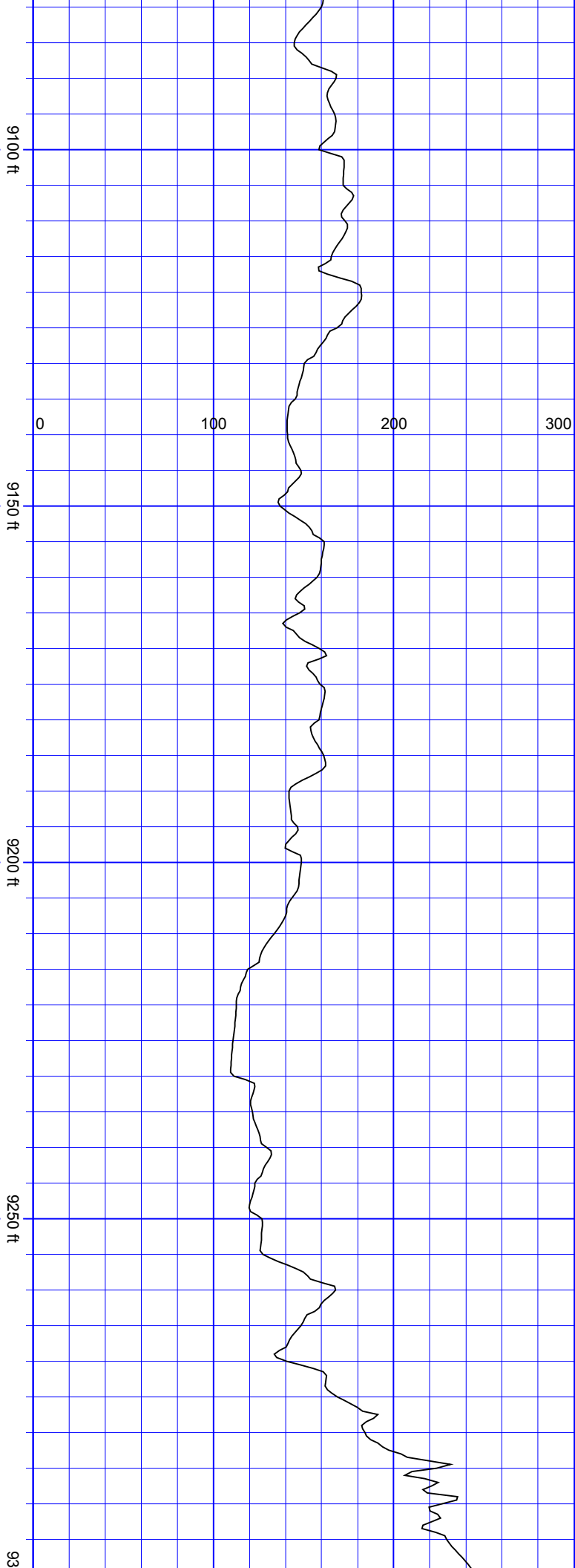




SurveyDepth:8704
TVD:7445.17 Inc:91.36
Azi:90.09
VertSec:1265.17

SurveyDepth:8798
TVD:7444.6 Inc:89.34
Azi:90.27
VertSec:1359.16

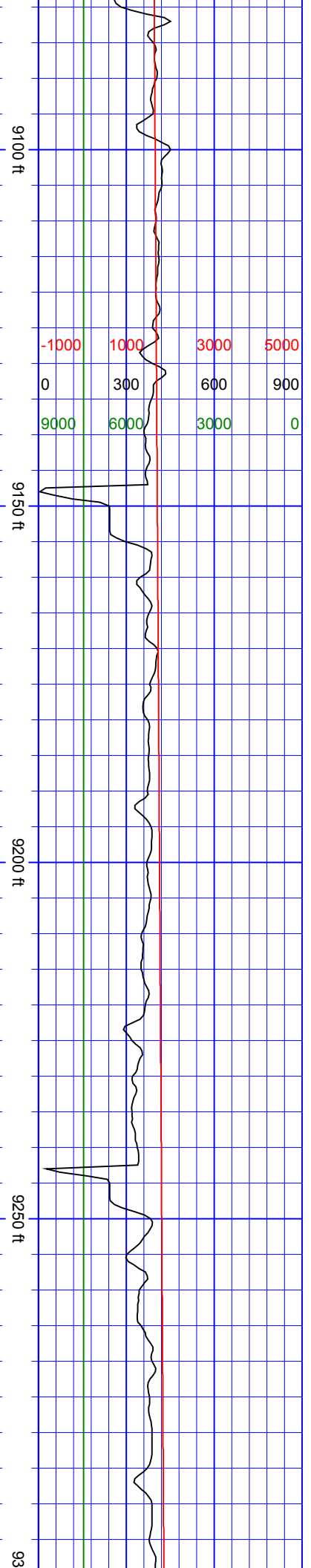


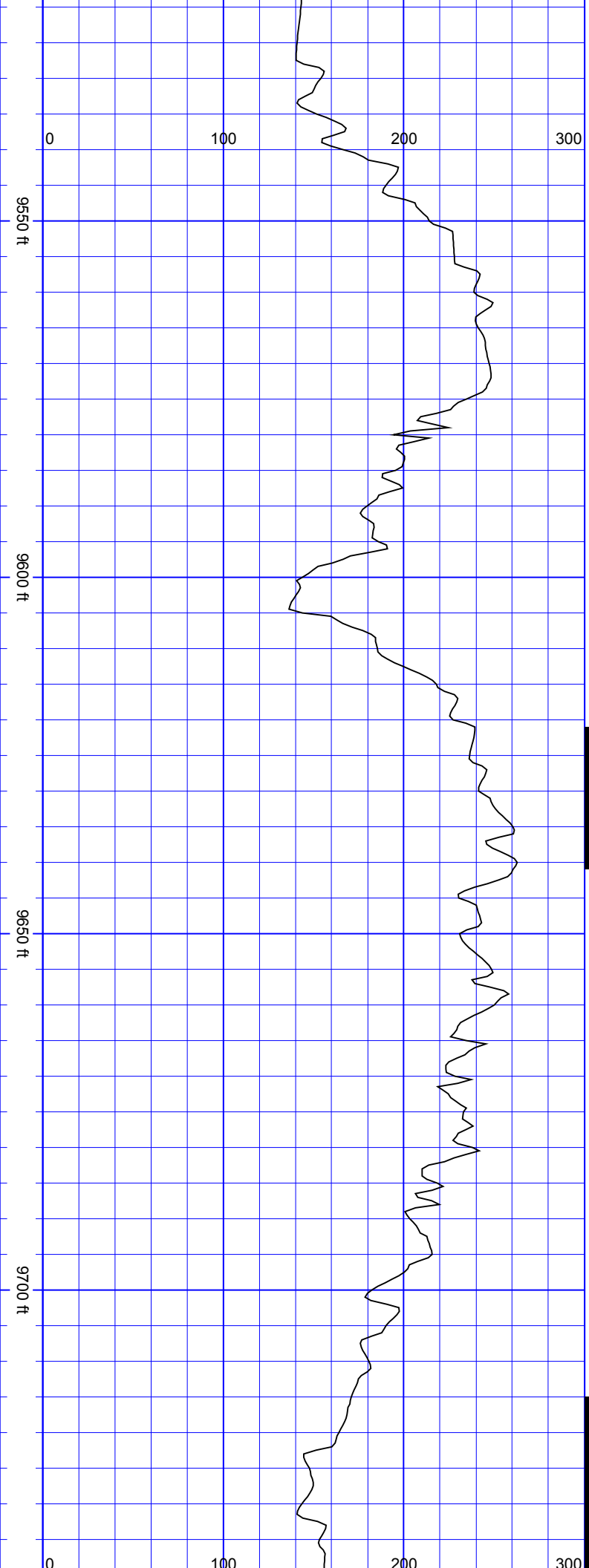


SurveyDepth:9083
TVD:7453.33 Inc:88.64
Azi:88.86 VertSec:1644

SurveyDepth:9177
TVD:7455.61 Inc:88.59
Azi:88.86
VertSec:1737.96

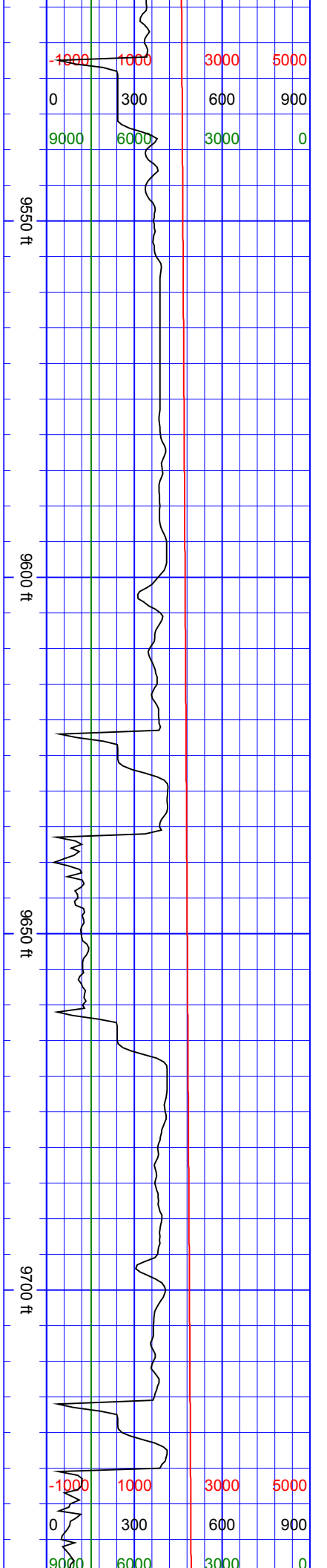
SurveyDepth:9272
TVD:7458.13 Inc:88.37
Azi:88.78
VertSec:1832.91

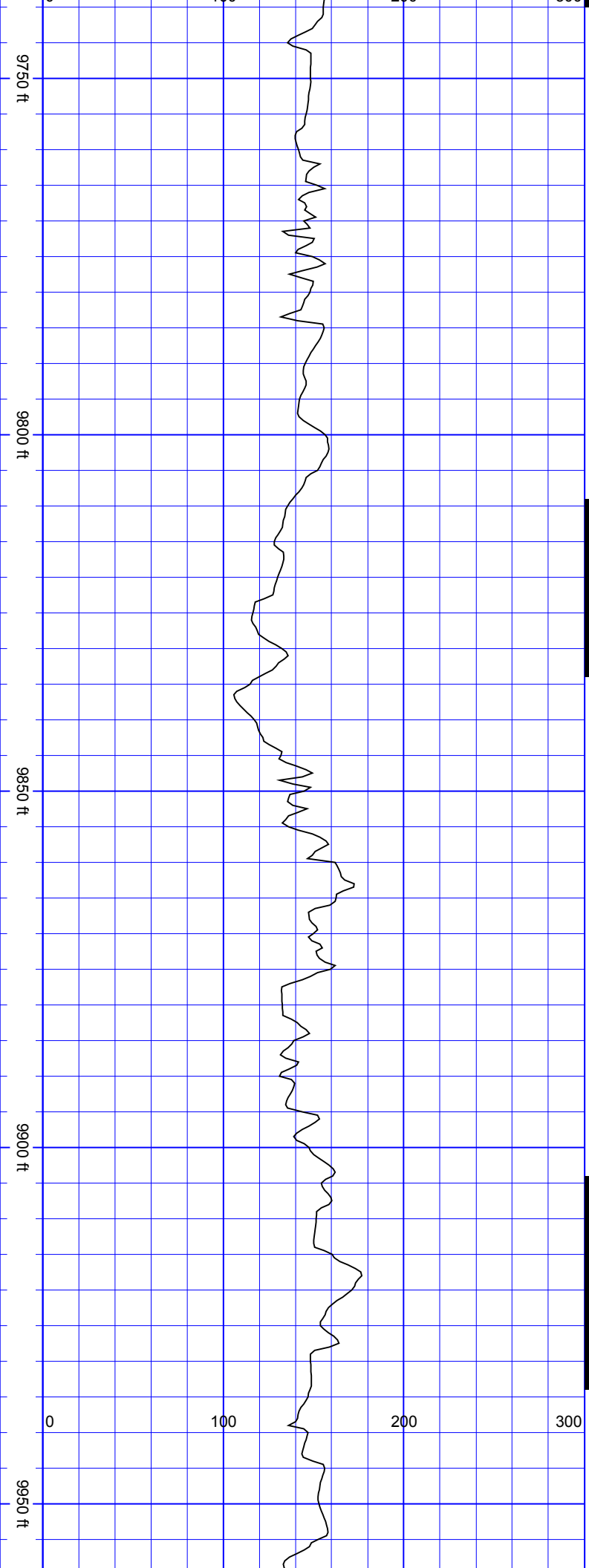




SurveyDepth:9556
TVD:7460.99 Inc:88.24
Azi:84.82
VertSec:2116.66

SurveyDepth:9650
TVD:7462.97 Inc:89.34
Azi:85.7
VertSec:2210.32

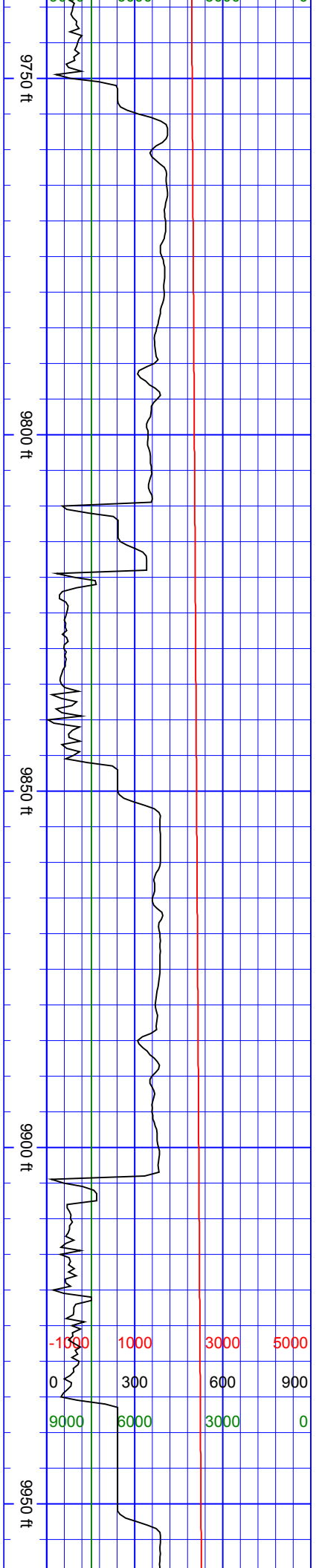


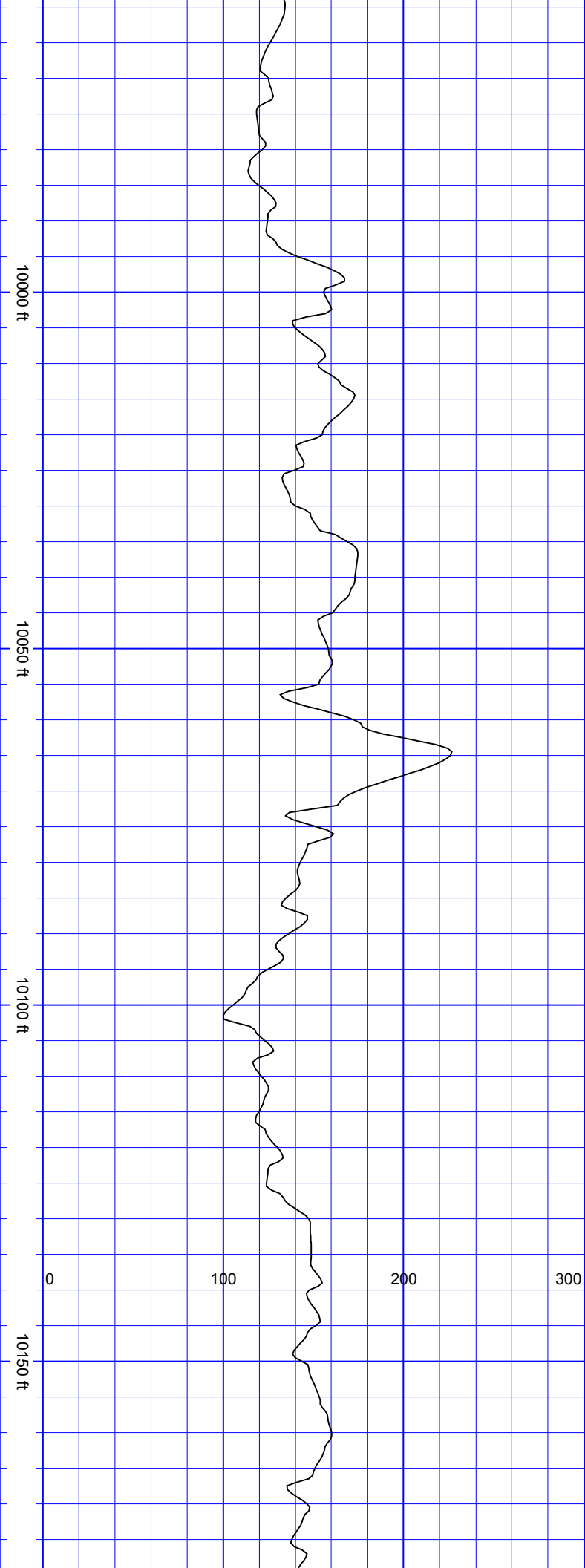


SurveyDepth:9744
TVD:7464.52 Inc:88.77
Azi:86.67
VertSec:2304.11

SurveyDepth:9839
TVD:7465.65 Inc:89.87
Azi:86.75
VertSec:2398.95

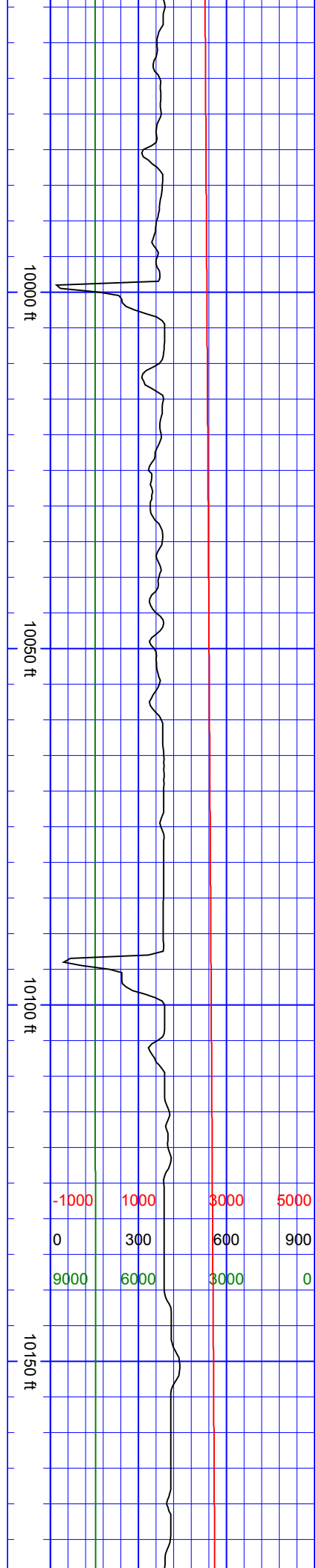
SurveyDepth:9933
TVD:7464.46 Inc:91.58
Azi:90.8 VertSec:2492.9

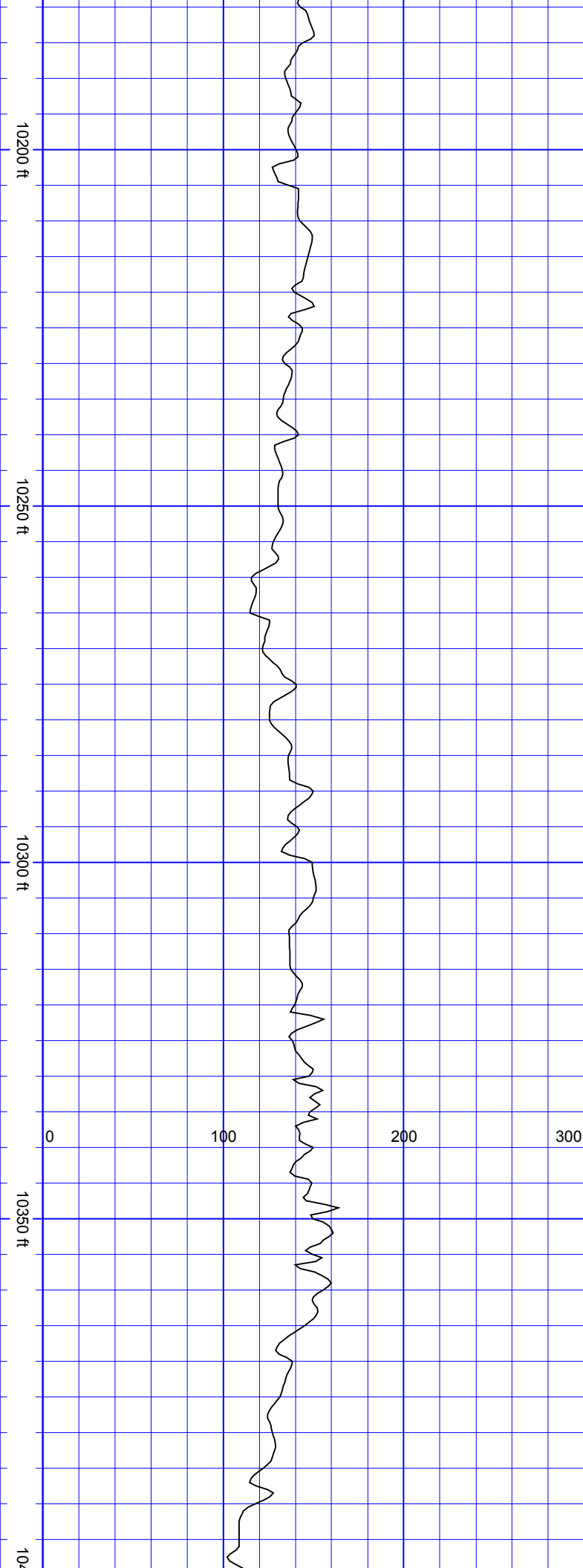




SurveyDepth:10028
TVD:7461.62 Inc:91.85
Azi:91.5
VertSec:2587.84

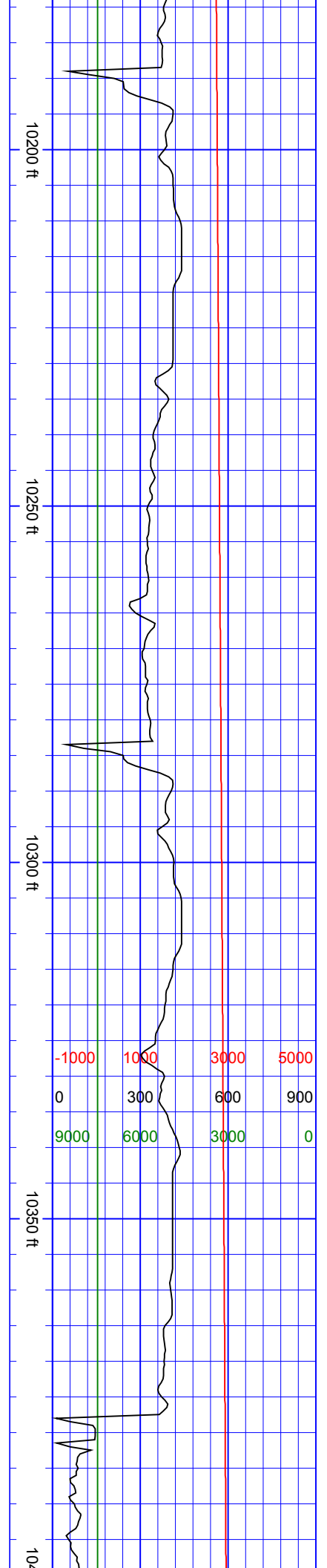
SurveyDepth:10123
TVD:7459.46 Inc:90.75
Azi:92.64
VertSec:2682.74

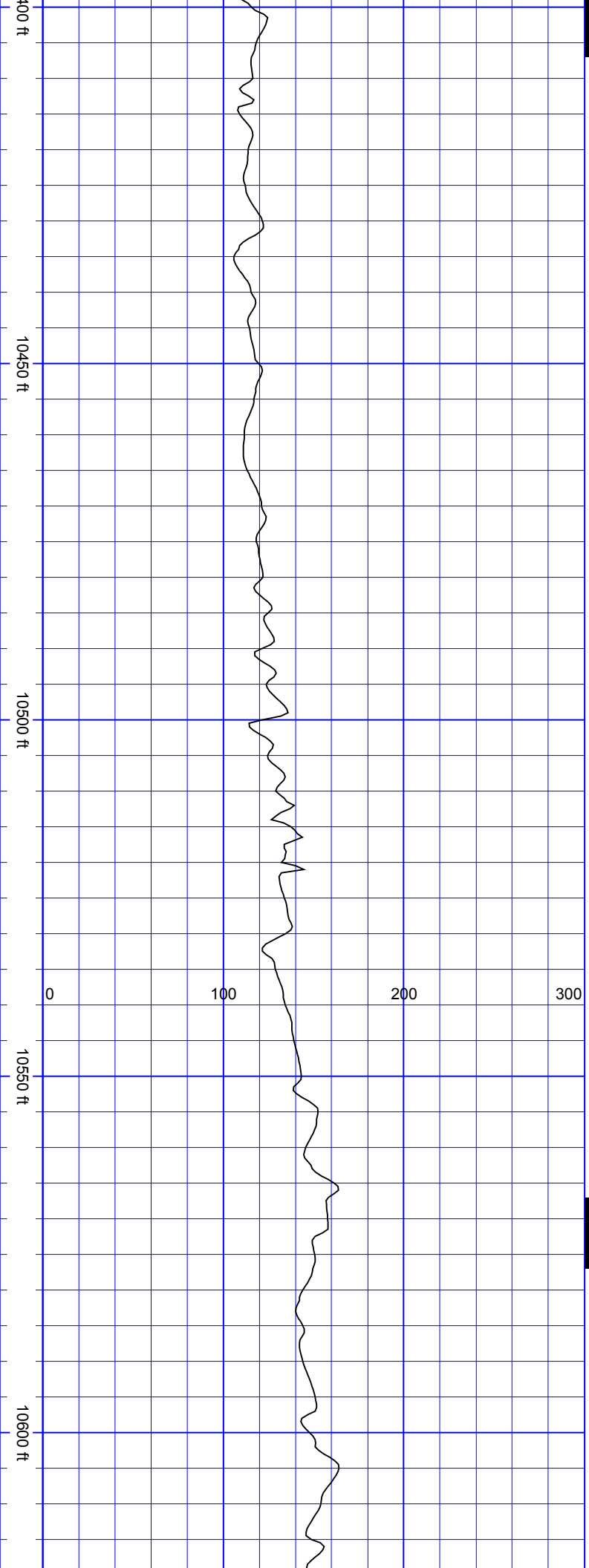




SurveyDepth:10218
TVD:7458.44 Inc:90.48
Azi:91.5
VertSec:2777.67

SurveyDepth:10312
TVD:7458.38 Inc:89.6
Azi:88.16
VertSec:2871.65





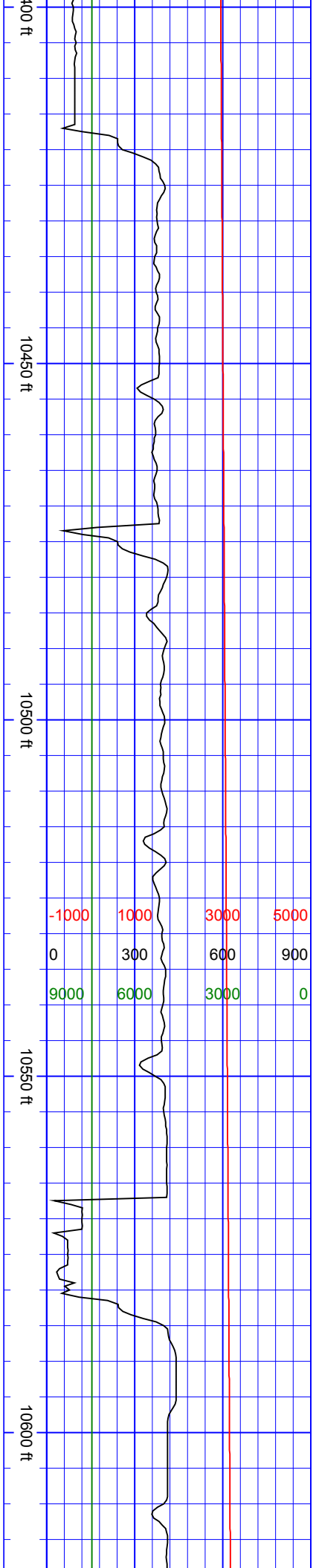
SSS

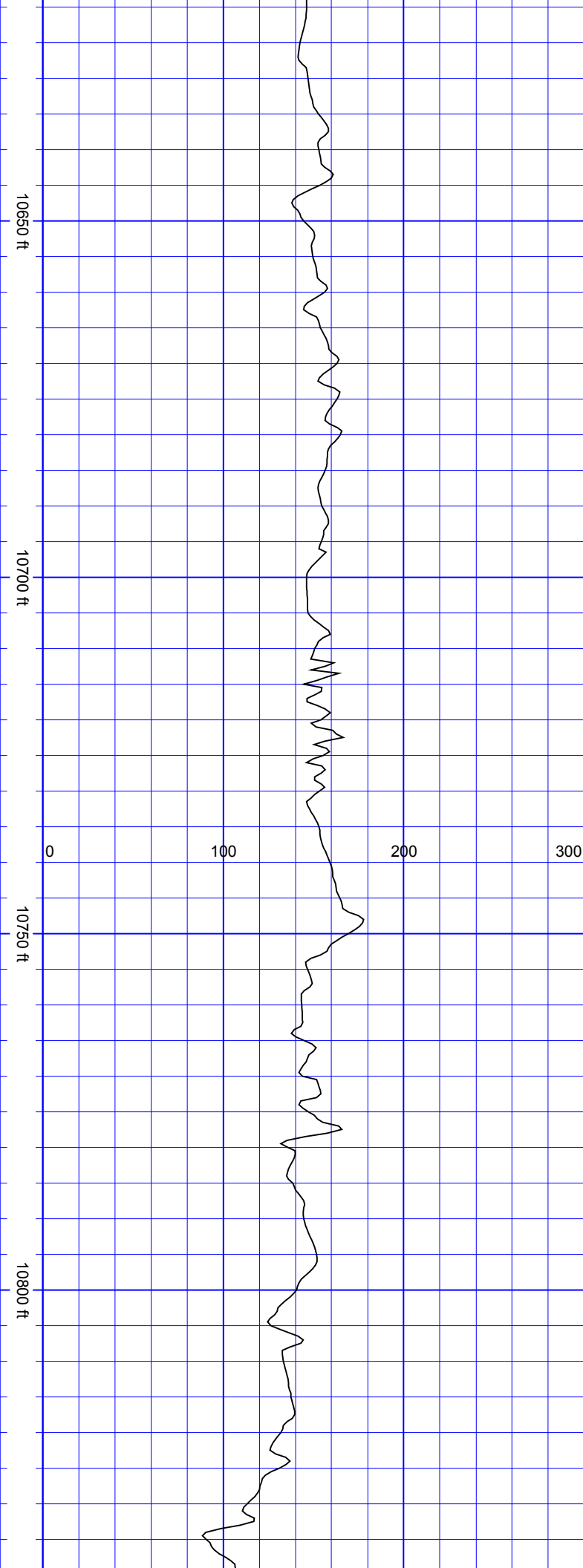
SurveyDepth:10407
TVD:7457.4 Inc:91.58
Azi:92.03
VertSec:2966.63

SSS

SurveyDepth:10502
TVD:7454.27 Inc:92.2
Azi:93.26
VertSec:3061.46

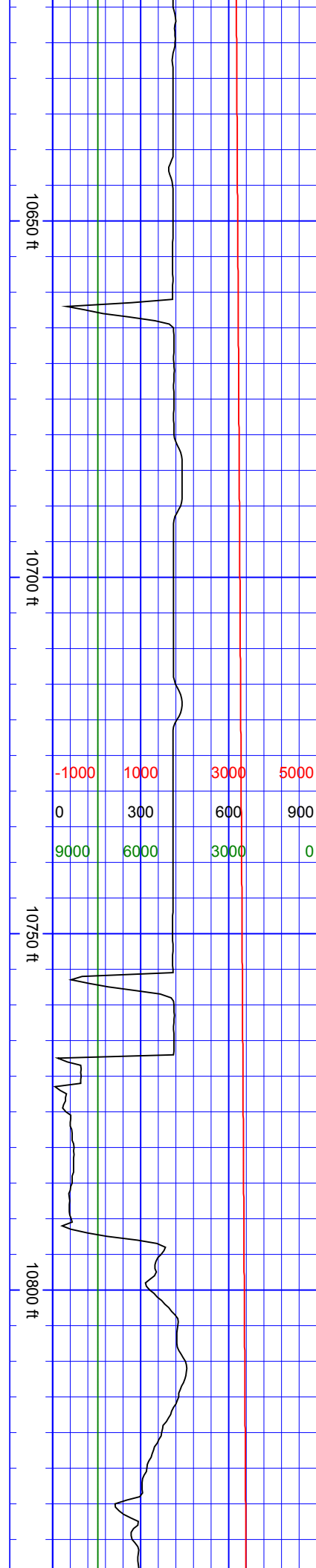
SurveyDepth:10597
TVD:7451.17 Inc:91.54
Azi:92.2 VertSec:3156.3

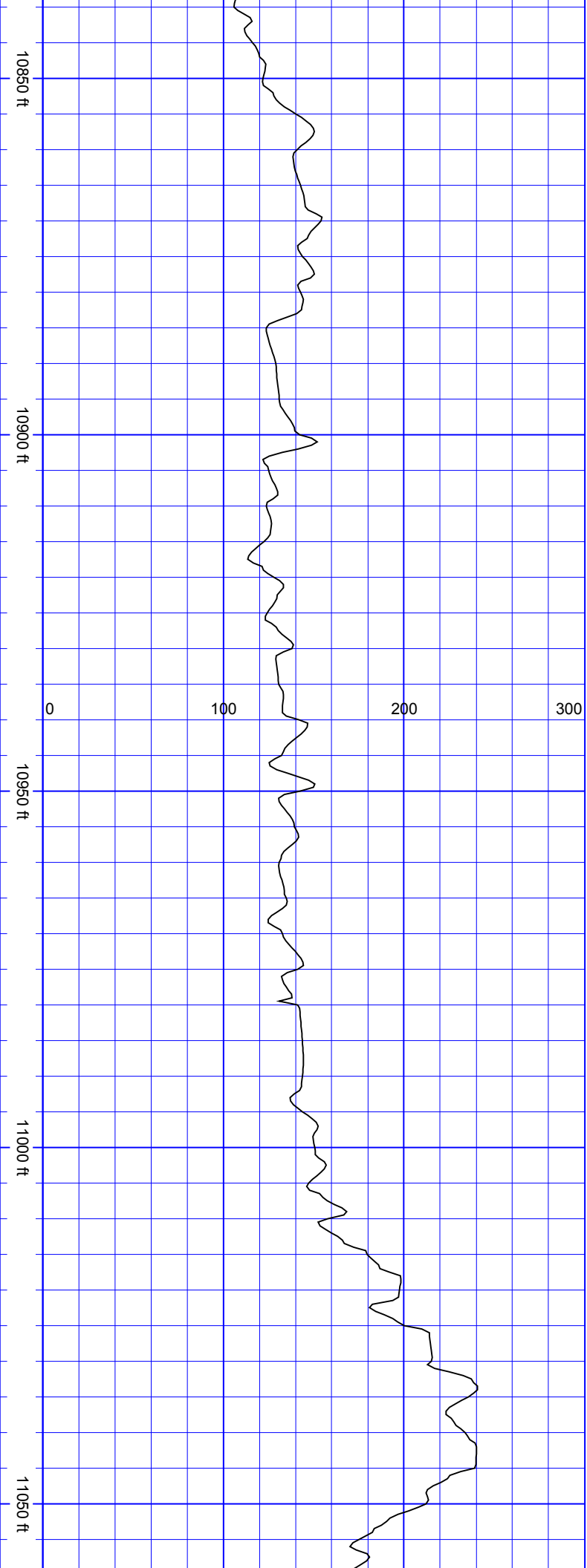




SurveyDepth:10692
TVD:7449.74 Inc:90.18
Azi:89.04
VertSec:3251.27

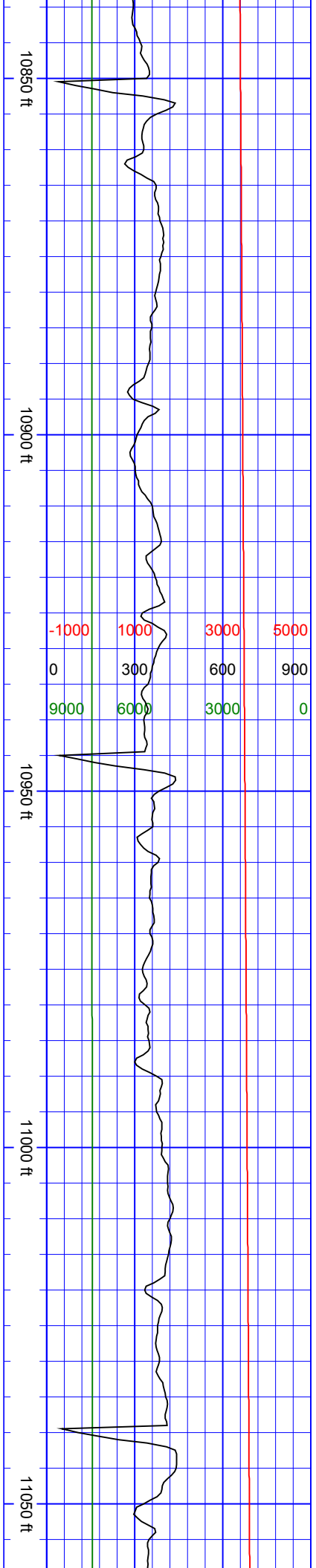
SurveyDepth:10786
TVD:7448.37 Inc:91.49
Azi:90.71
VertSec:3345.25

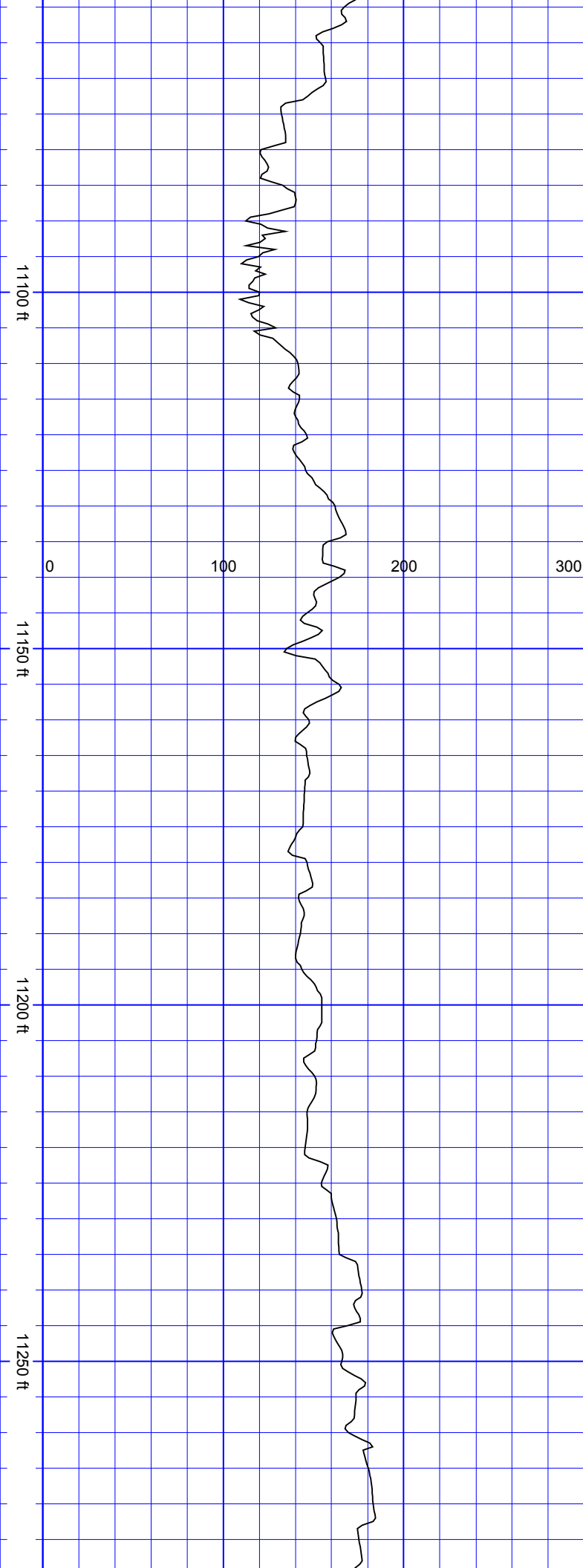




SurveyDepth:10881
TVD:7445.64 Inc:91.8
Azi:91.15
VertSec:3440.2

SurveyDepth:10975
TVD:7443.37 Inc:90.97
Azi:90.01
VertSec:3534.16



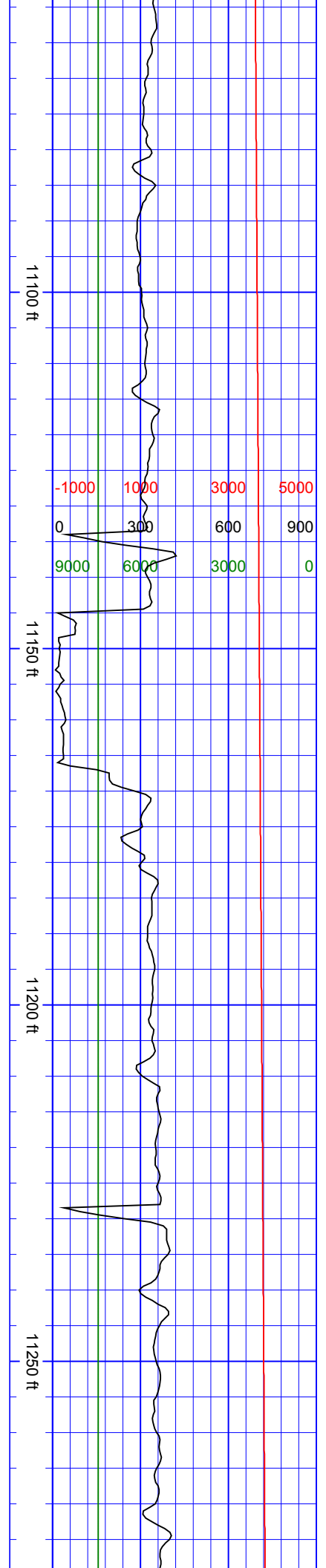


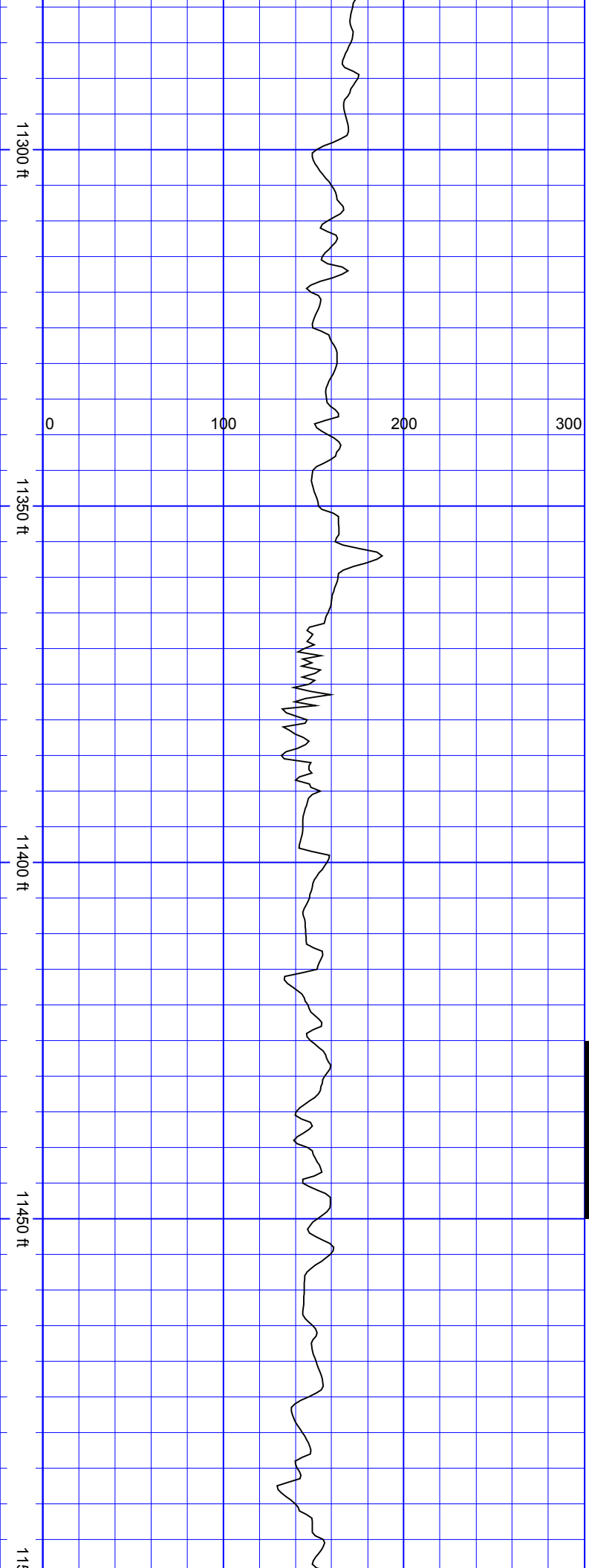
SurveyDepth:11070
TVD:7441.55 Inc:91.23
Azi:89.92
VertSec:3629.14

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SurveyDepth:11164
TVD:7441.15 Inc:89.25
Azi:90.97
VertSec:3723.13

SurveyDepth:11259
TVD:7442.07 Inc:89.65
Azi:91.33
VertSec:3818.1

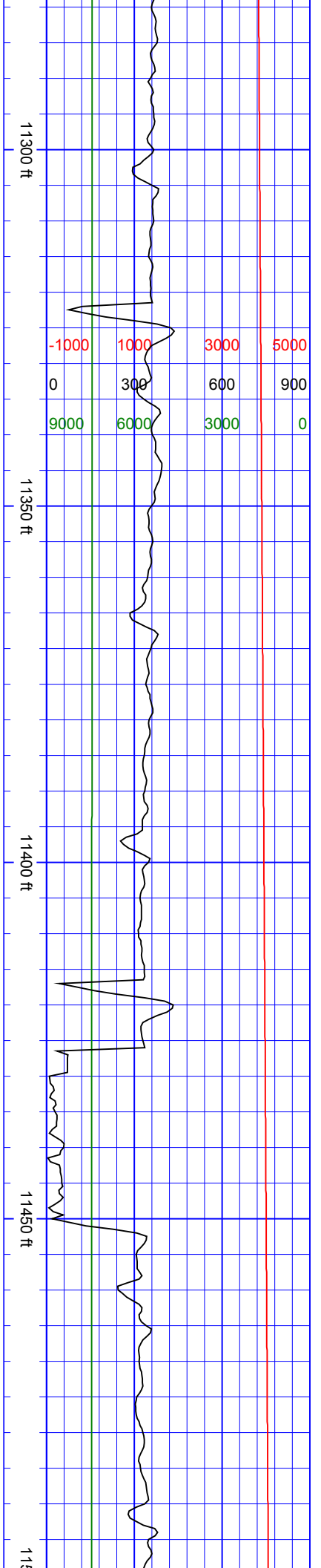


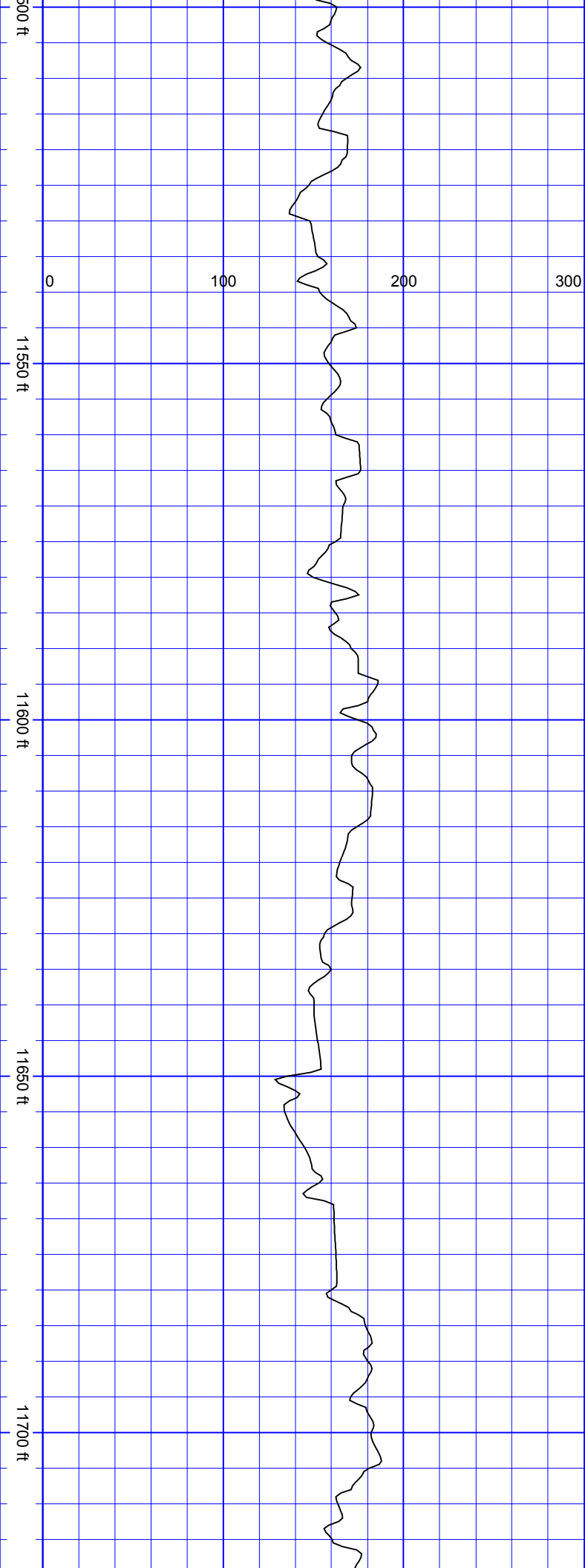


SurveyDepth:11354
TVD:7442.39 Inc:89.96
Azi:90.36
VertSec:3913.09

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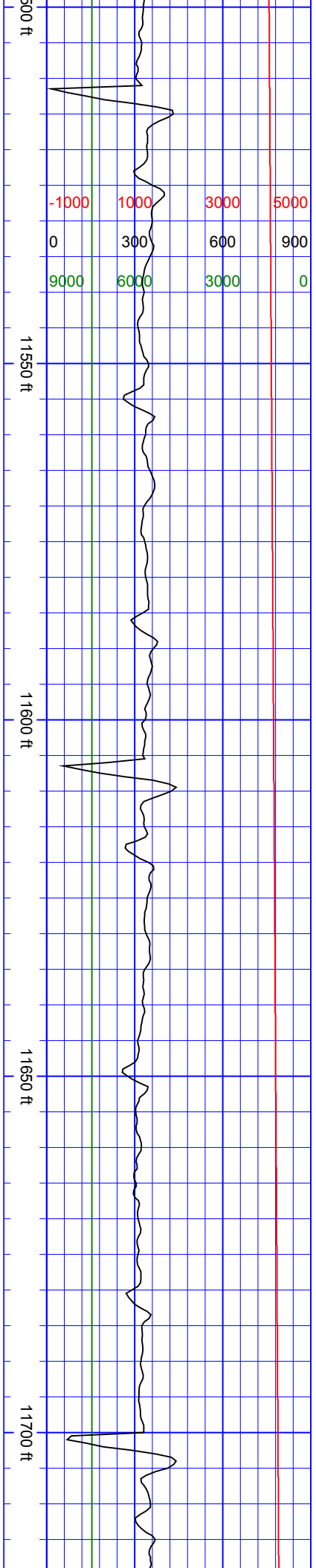
SurveyDepth:11448
TVD:7444.41 Inc:87.58
Azi:92.38
VertSec:4007.03

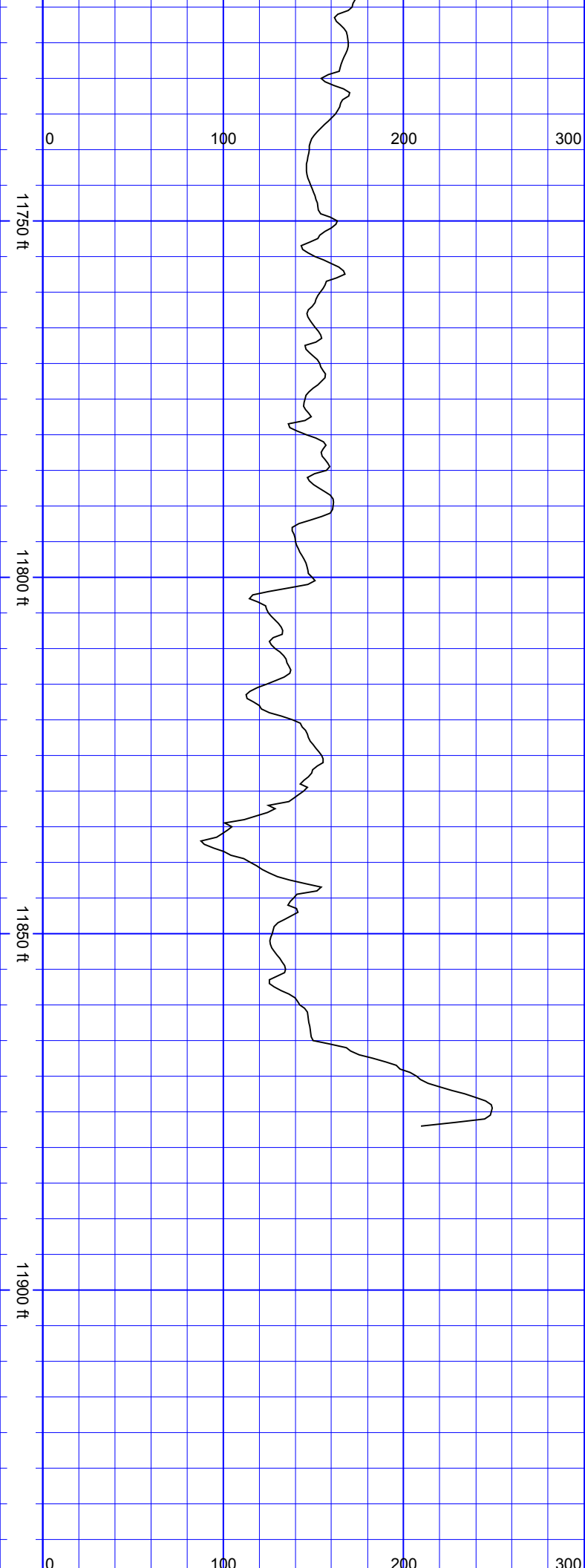




SurveyDepth:11544
TVD:7448.68 Inc:87.32
Azi:91.68
VertSec:4102.87

SurveyDepth:11638
TVD:7453.22 Inc:87.14
Azi:91.5
VertSec:4196.72



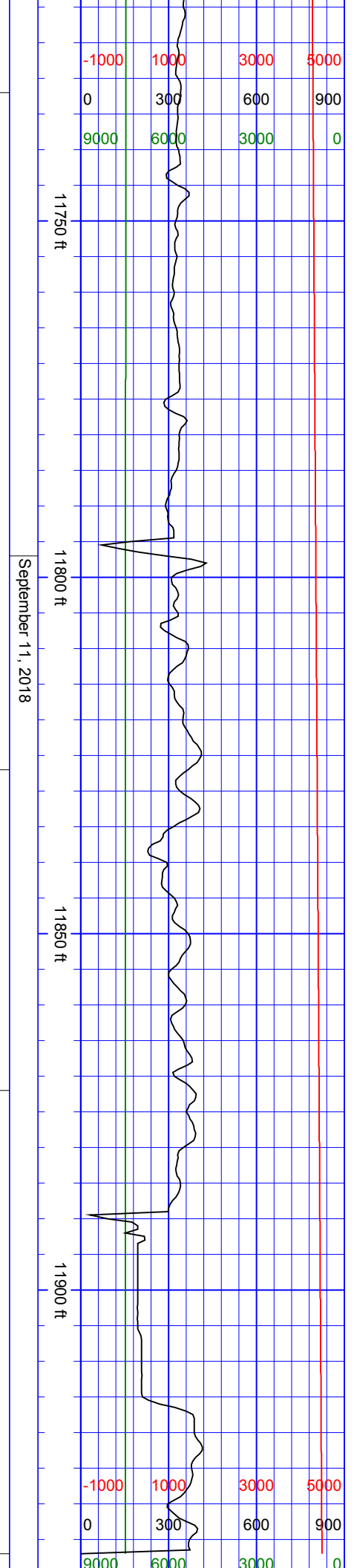


SurveyDepth:11732
TVD:7457.76 Inc:87.32
Azi:90.97
VertSec:4290.58

SurveyDepth:11827
TVD:7461.77 Inc:87.85
Azi:91.68
VertSec:4385.47

SurveyDepth:11872
TVD:7463.35 Inc:88.11
Azi:91.15
VertSec:4430.42

Extrapolation To Bit
SurveyDepth:11937



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

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

