

CATHEDRAL

Build & Lateral

Job #:185258Well ID:16191023

Scale:5" = 100 ftType:MD

Well Site Information

Crestone Peak Resources

Oil Company

S4-T2N-R66W

Surface Location

DAVIS 1E-9H-G266

Well Name

05-123-46510-00

API

DJ BASIN

Field

CO

State

USA

Country

Surface Coordinates

Horizontal

Well Type

40° 9' 16 N

Latitude

104° 46' 40 W

Longitude

1,299,971.22 us/ft

N / S Coordinates

3,201,864.97 us/ft

E / W Coordinates

True North

Azimuth Reference

0.47°

Grid Convergence

MWD Engineers

Bob Stahlecker

Lead Hand

Kyle Regan

Second Hand

Perm Datum

Ground

Elevation

4,917.00 ft

Log depth measured from KB is

23.00 ft

above perm datum.

KB =

4,940.00 ft

Total Depth

14,665.00 ft

Spud Date

Aug/29/2018

End Date

Sep/01/2018

(MD) Log Interval

2,148.10 ft

Start Depth

End Depth

14,665.01 ft

Bore Hole Record

From

To

Hole Size

13.50 in

0.00 ft

2,200.00 ft

8.50 in

2,200.00 ft

14,665.00 ft

Casing Record

Type

Size

WG/T

From

To

LT&C

9.63 in

40.00 lbs/ft

0.00 ft

2,200.00 ft

DW/C

5.50 in

20.00 lbs/ft

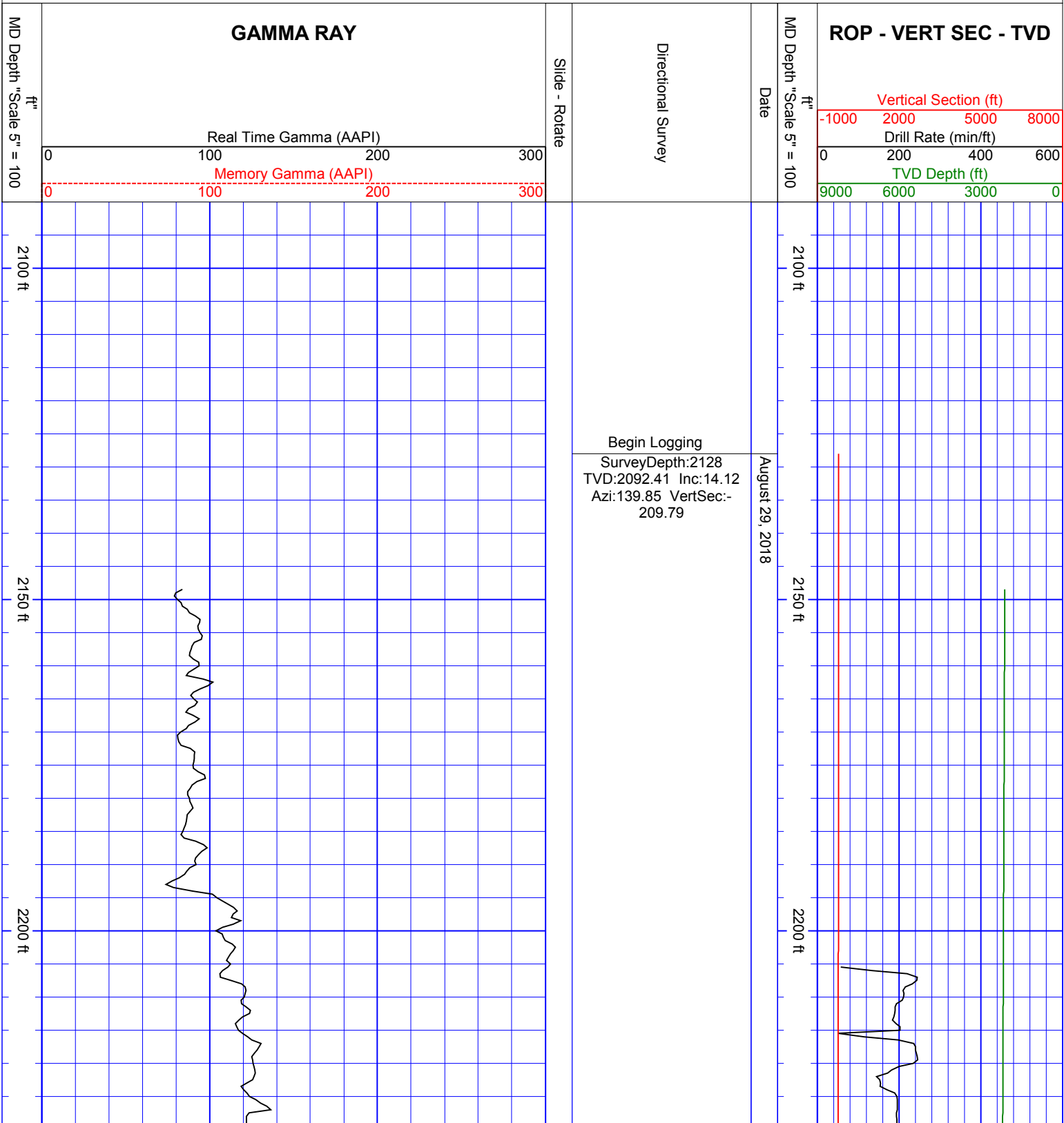
0.00 ft

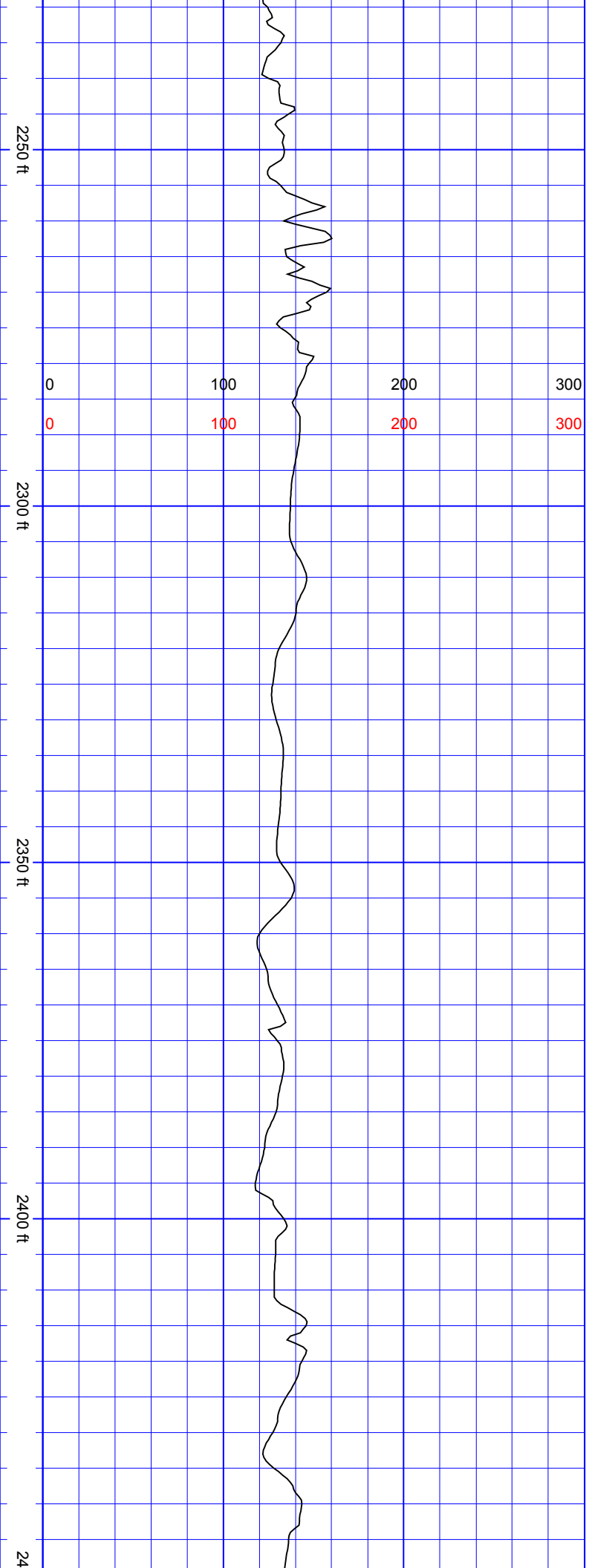
14,665.00 ft

Run Data					
Bit Run Number	1				
Start Date & Time	Aug/29/2018 04:00:00				
End Date & Time	Sep/01/2018 08:00:00				
Run Hours	76.00				
Depth In	2,205.00 ft				
Depth Out	14,665.00 ft				
Total Gamma Correction	5.45				
Gamma to Bit	59.13 ft				
Resistivity to Bit	-				
Mud Type	Oil Base				
Density	10.30 ppg				
Viscosity	49.00 sec/qt				
PH	-				
Fluid Loss	-				
K+ ppm	-				
CL- ppm	225,134.00 ppm				
Max Mud Temp	258.00 °F				
Mud Report Depth	13,409.00 ft				

Remarks

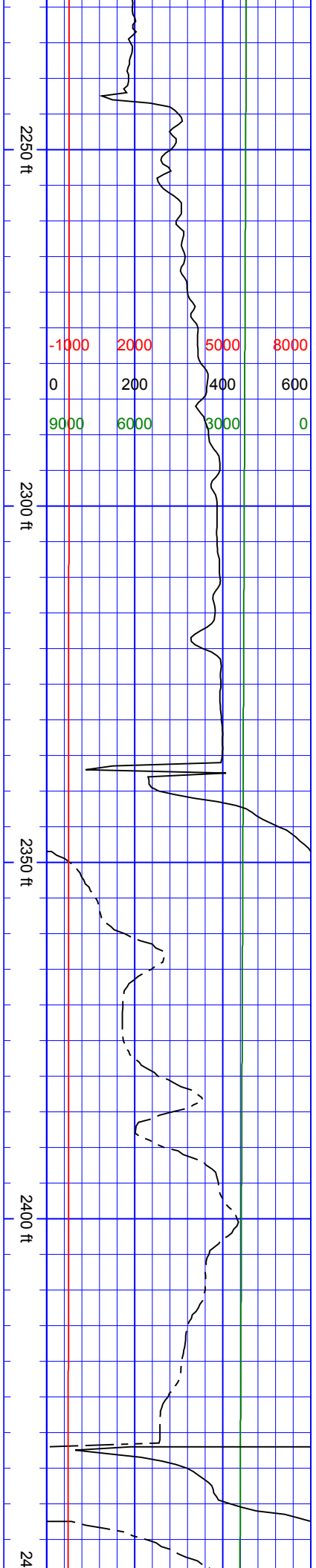
Interpretations of this data by Cathedral Energy Services will be of best judgment as to correctness. Cathedral Energy Services cannot and does not guarantee the accuracy or correctness of interpretations or any surveys derived therefrom. Cathedral Energy Services makes no warranties of performance,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

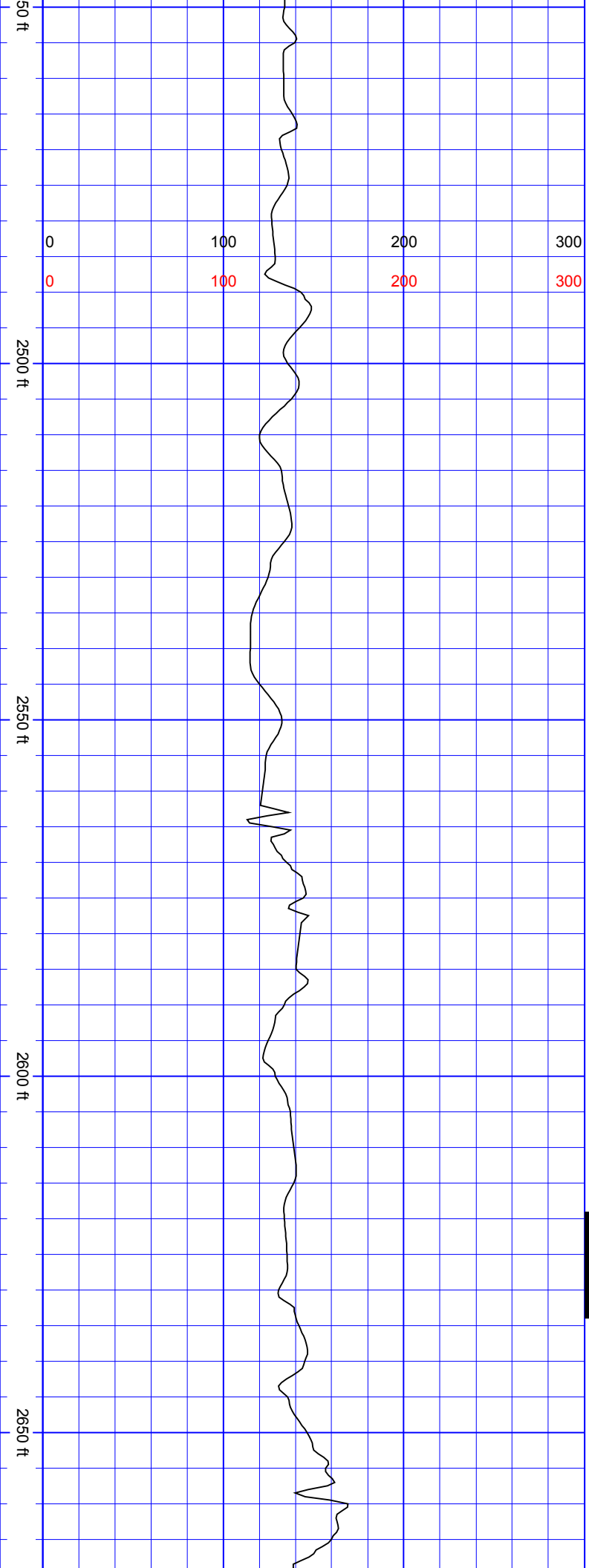




SurveyDepth:2272
TVD:2231.96 Inc:14.46
Azi:136.93 VertSec:-
232.47

SurveyDepth:2366
TVD:2323.12 Inc:13.76
Azi:135.61 VertSec:-
246.45



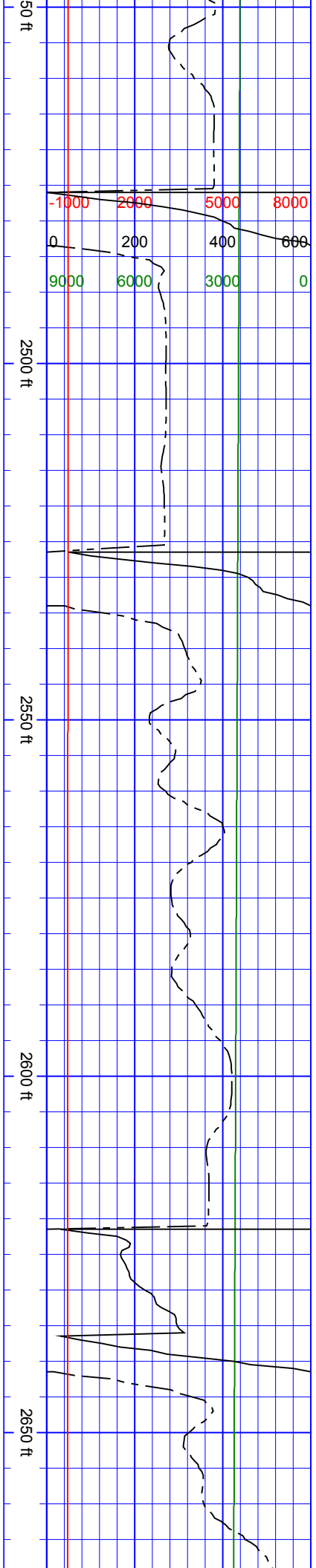


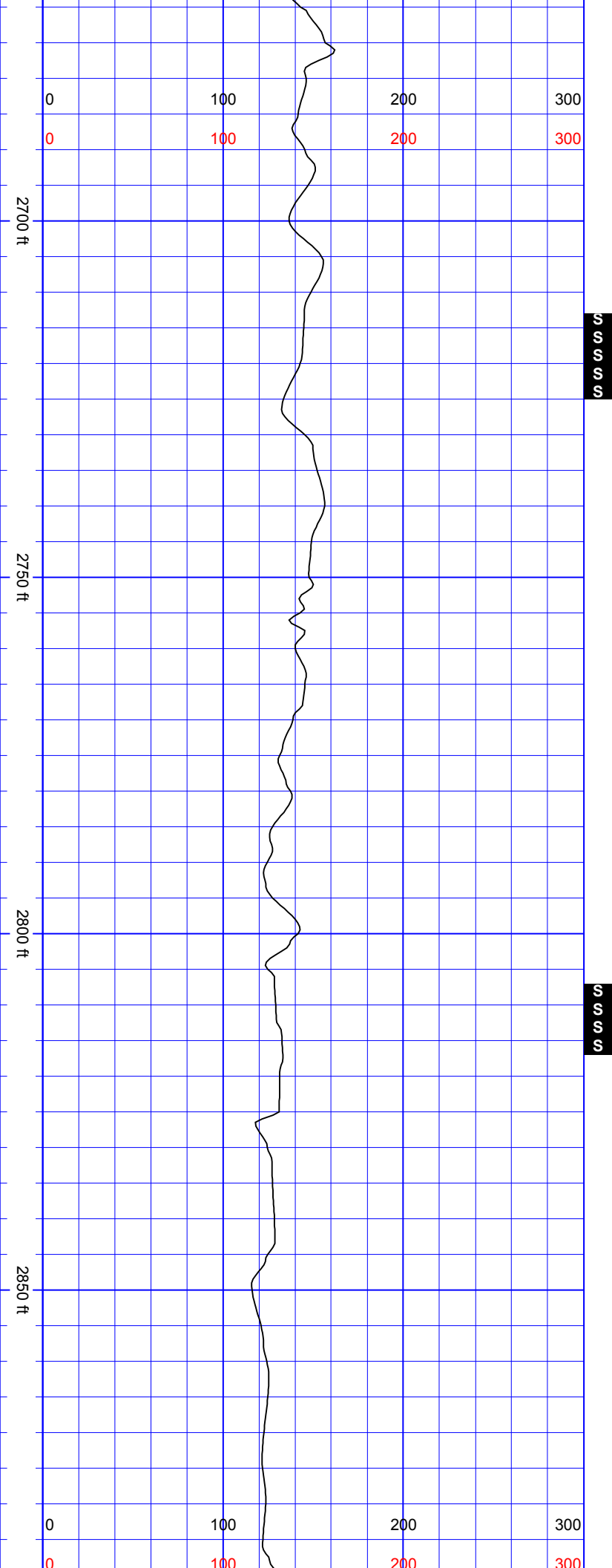
SurveyDepth:2460
TVD:2414.62 Inc:12.74
Azi:135.53 VertSec:-
259.38

SurveyDepth:2555
TVD:2507.53 Inc:11.34
Azi:131.22 VertSec:-
270.68

SurveyDepth:2649
TVD:2599.69 Inc:11.34
Azi:137.9 VertSec:-
281.49

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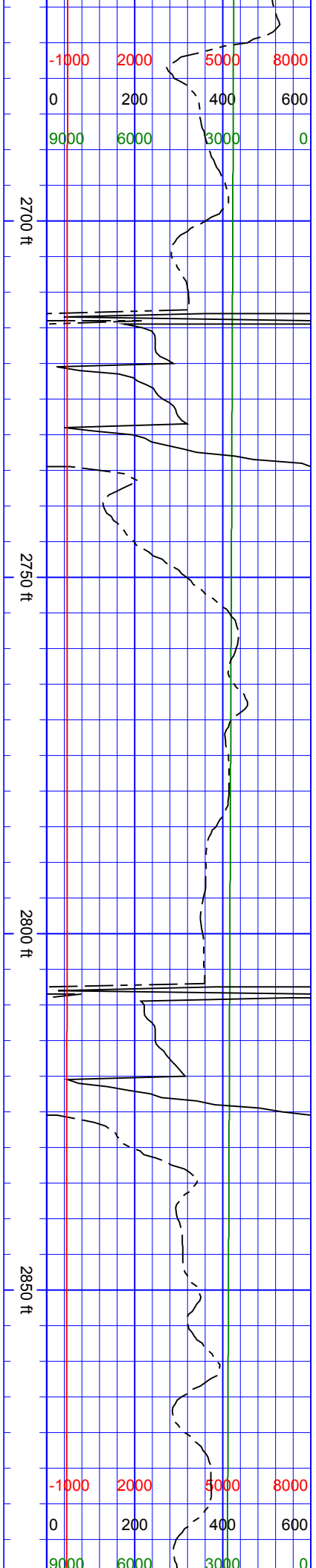


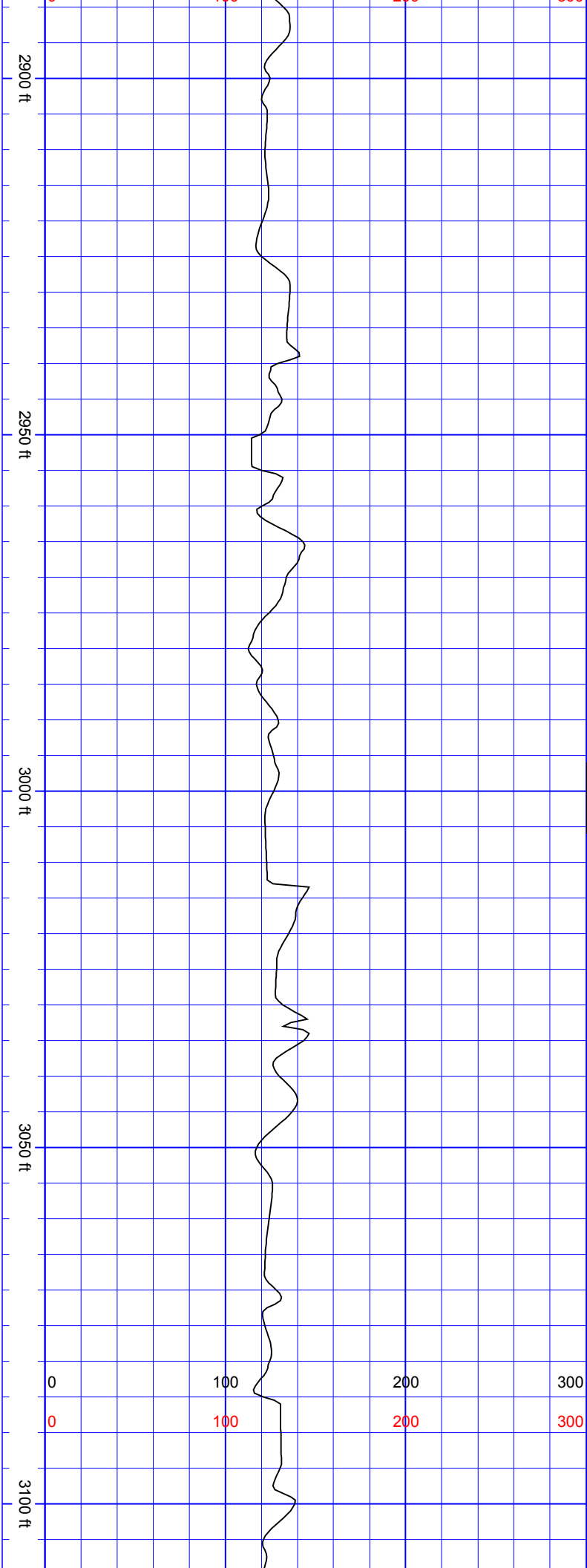
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SurveyDepth:2743
TVD:2691.72 Inc:12.17
Azi:134.82 VertSec:-
293.17

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SurveyDepth:2838
TVD:2784.48 Inc:12.79
Azi:140.01 VertSec:-
306.01

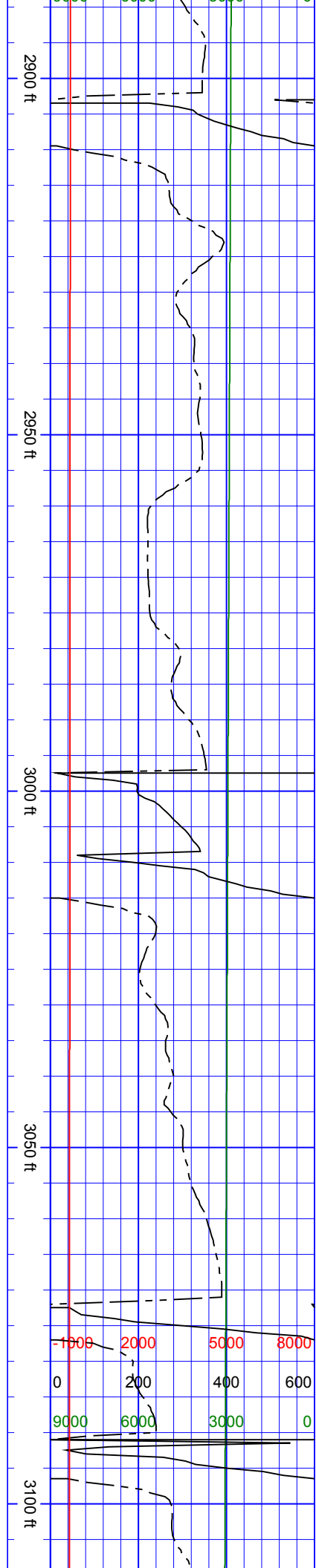


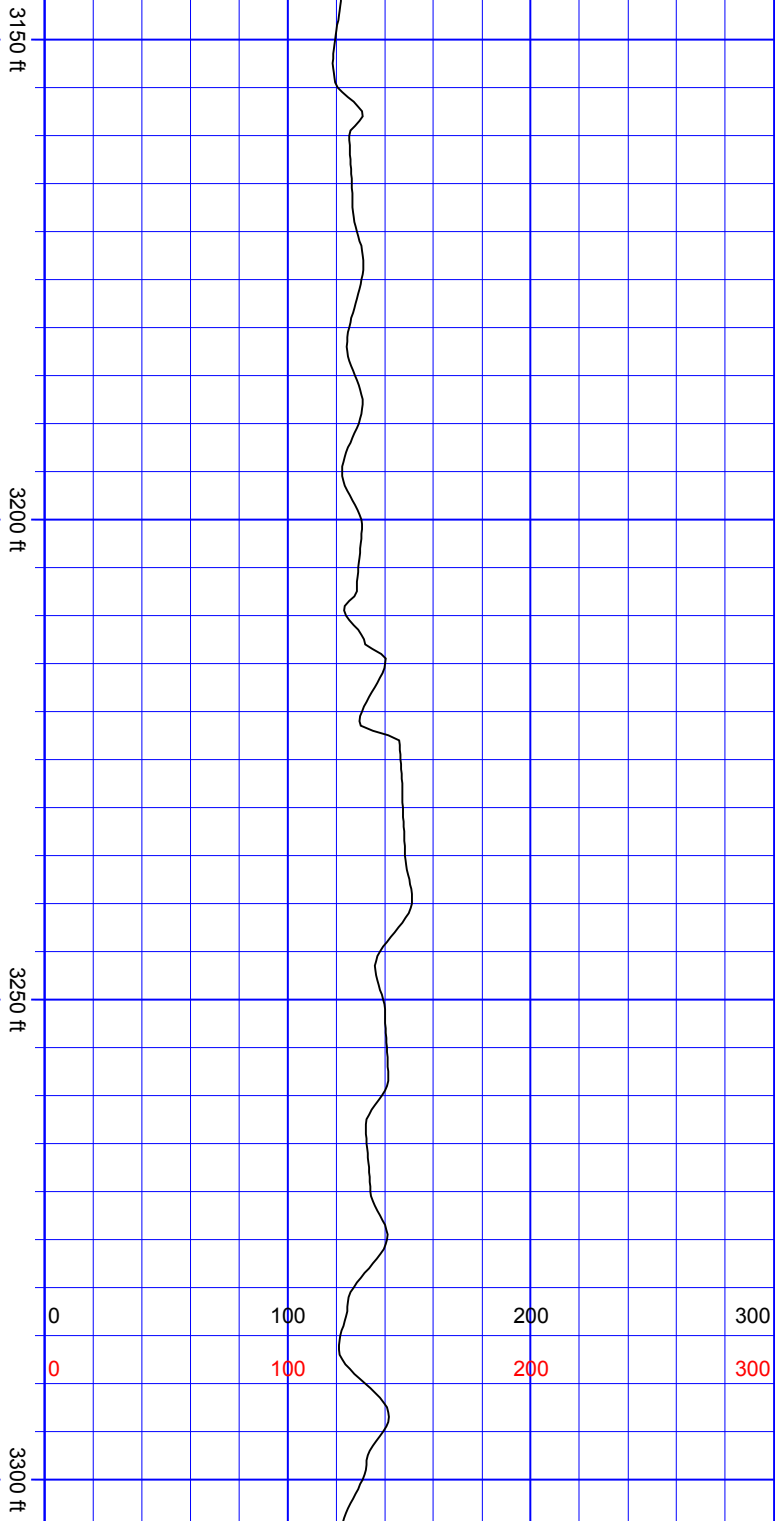


SurveyDepth:2932
TVD:2876.24 Inc:12.31
Azi:138.07 VertSec:-
319.24

SurveyDepth:3027
TVD:2968.88 Inc:13.27
Azi:145.55 VertSec:-
333.62

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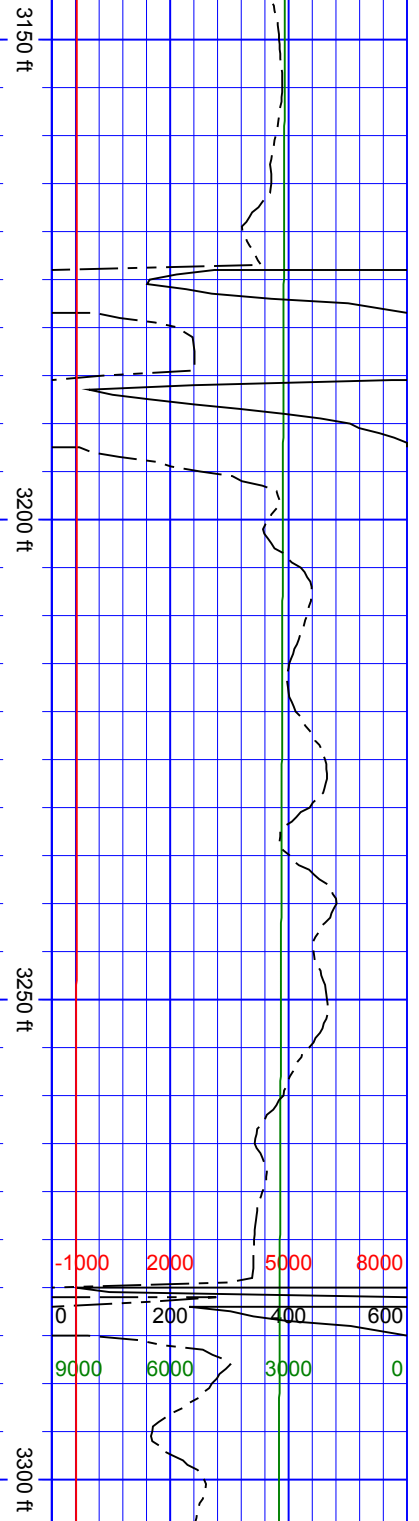


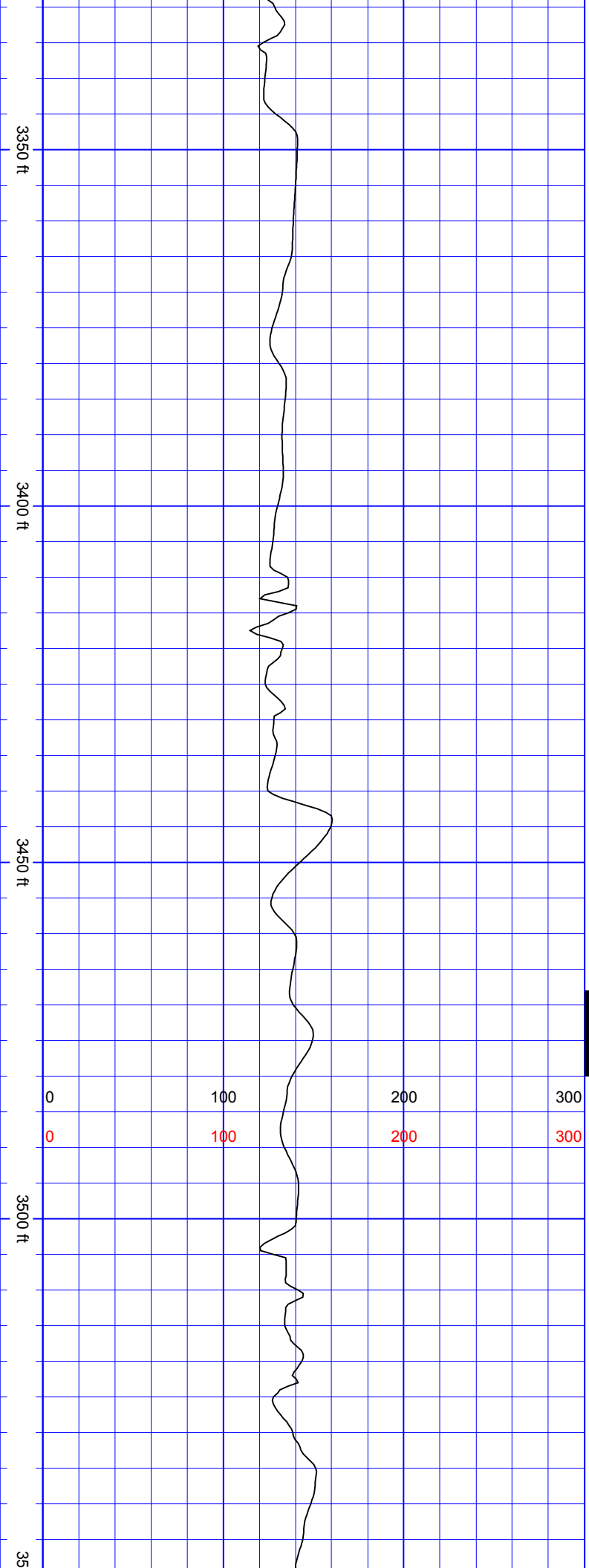


SurveyDepth:3121
TVD:3060.48 Inc:12.7
Azi:145.02 VertSec:-
348.96

SurveyDepth:3215
TVD:3152.35 Inc:11.73
Azi:142.56 VertSec:-
363.06

SurveyDepth:3310
TVD:3245.52 Inc:10.77
Azi:142.91 VertSec:-
375.94

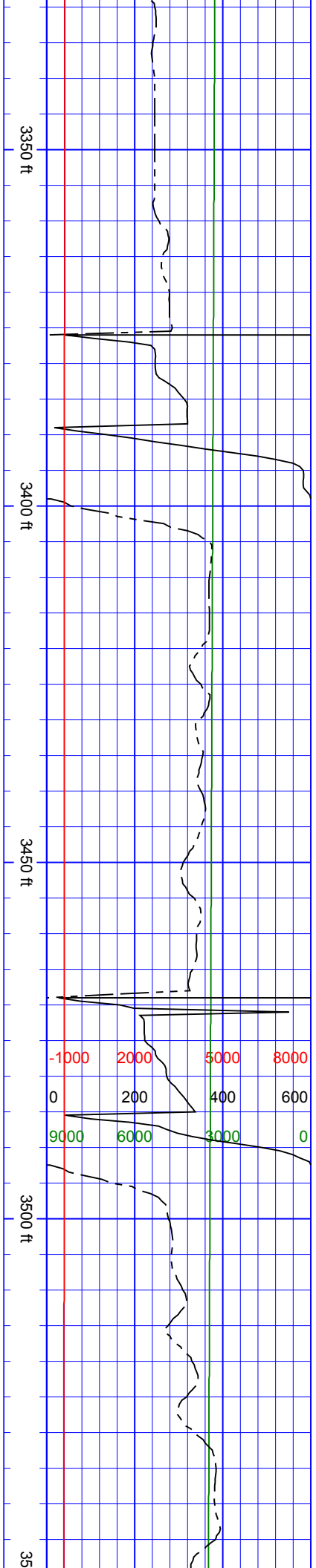


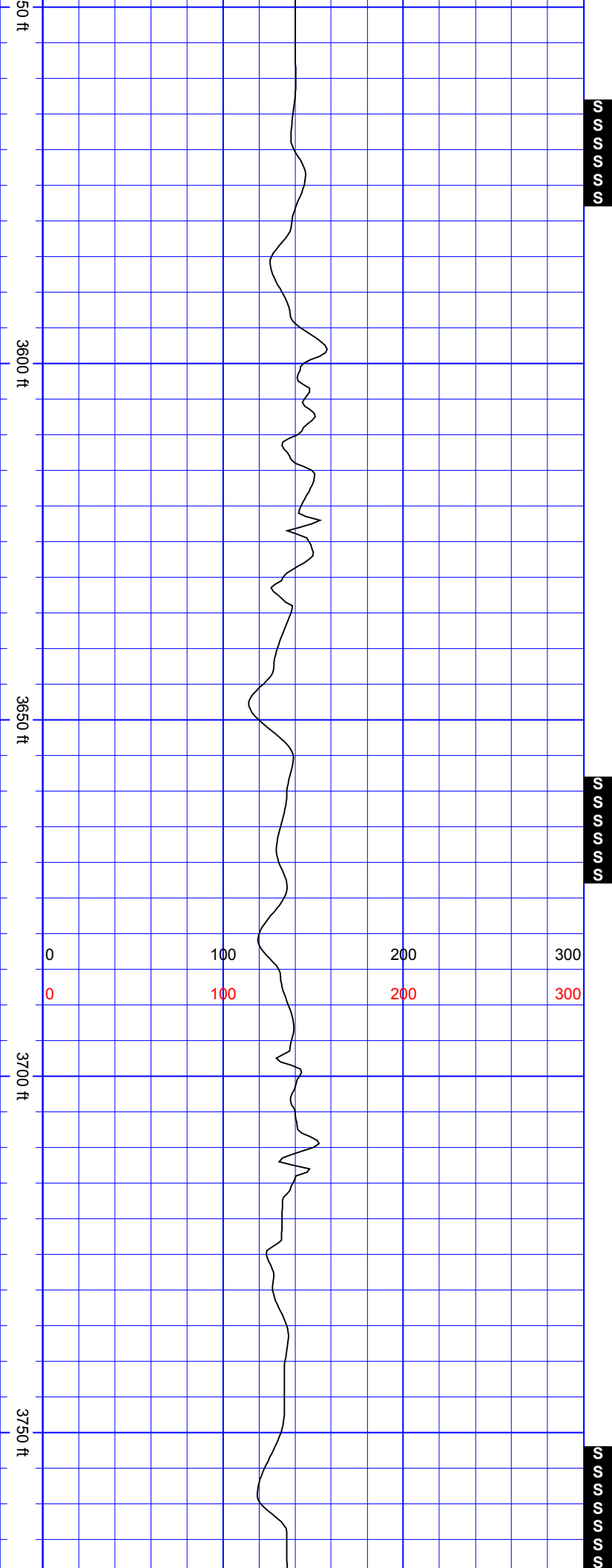


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SurveyDepth:3404
TVD:3337.98 Inc:10.06
Azi:137.37 VertSec:-
387.19

SurveyDepth:3499
TVD:3431.39 Inc:10.94
Azi:140.98 VertSec:-
398.44





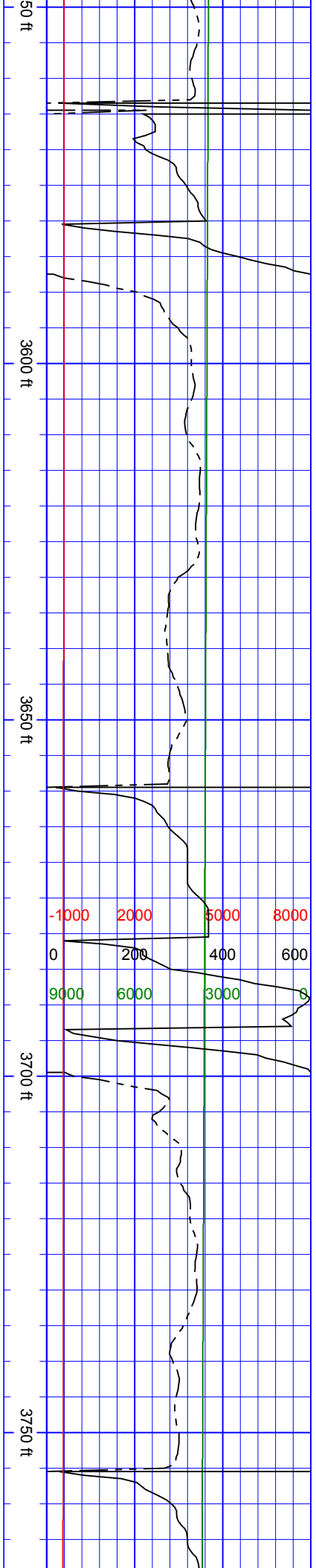
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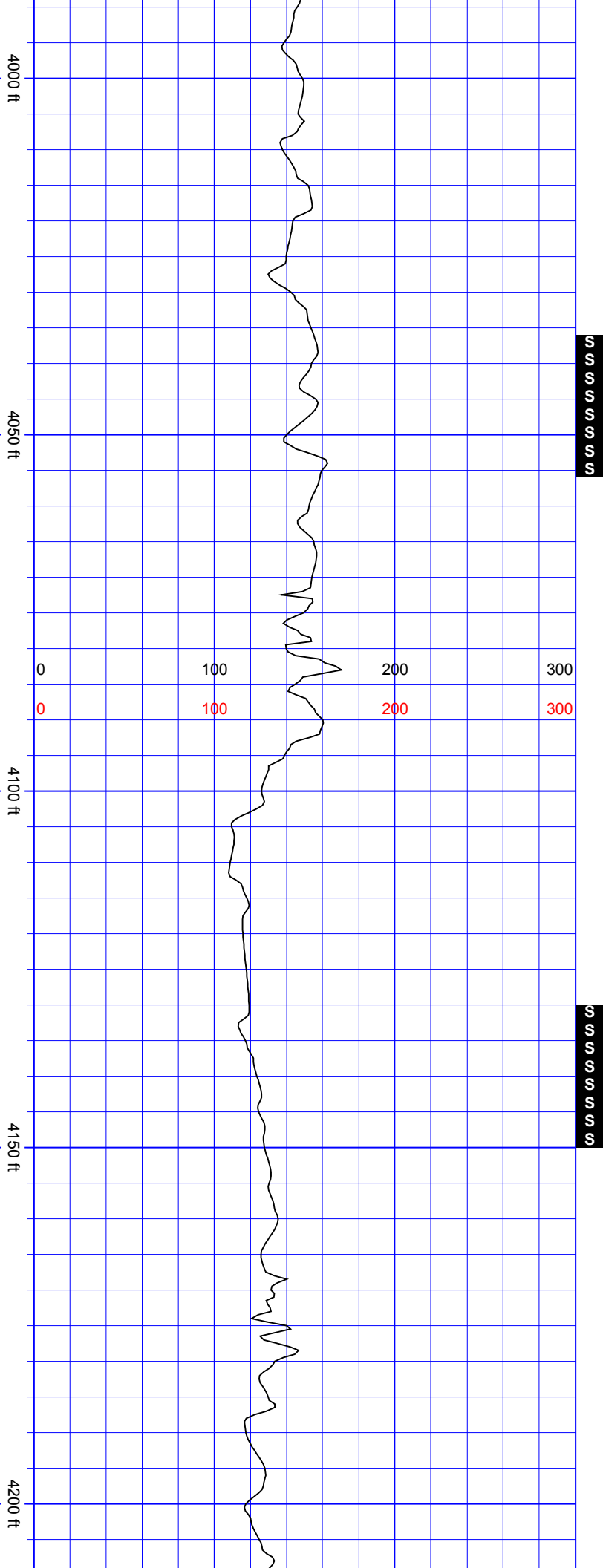
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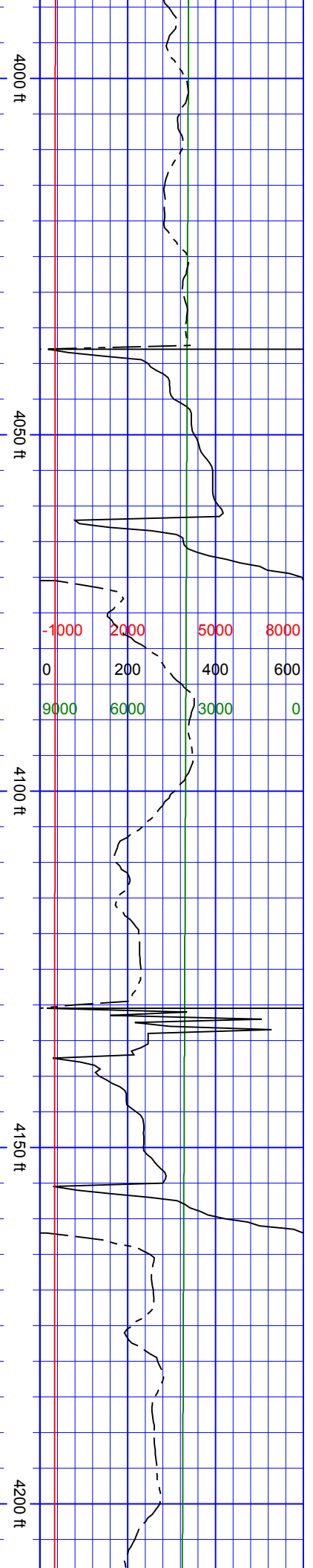
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TVD:3524.66 Inc:10.94
Azi:137.37 VertSec:-
410.14

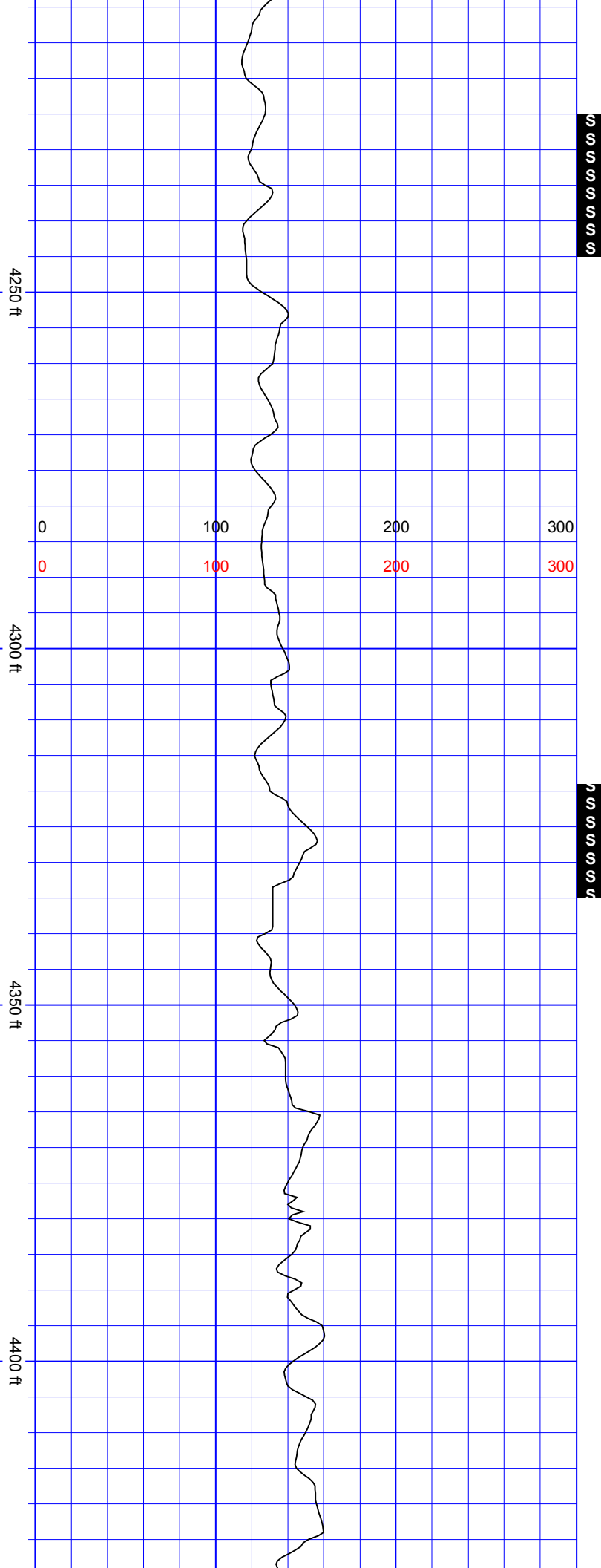
SurveyDepth:3688
TVD:3616.69 Inc:12.57
Azi:137.81 VertSec:-
422.16



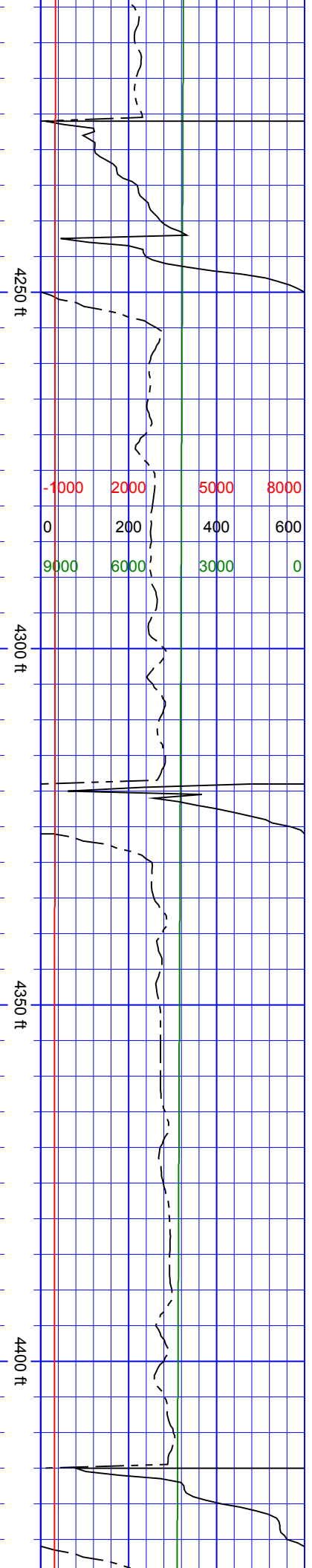


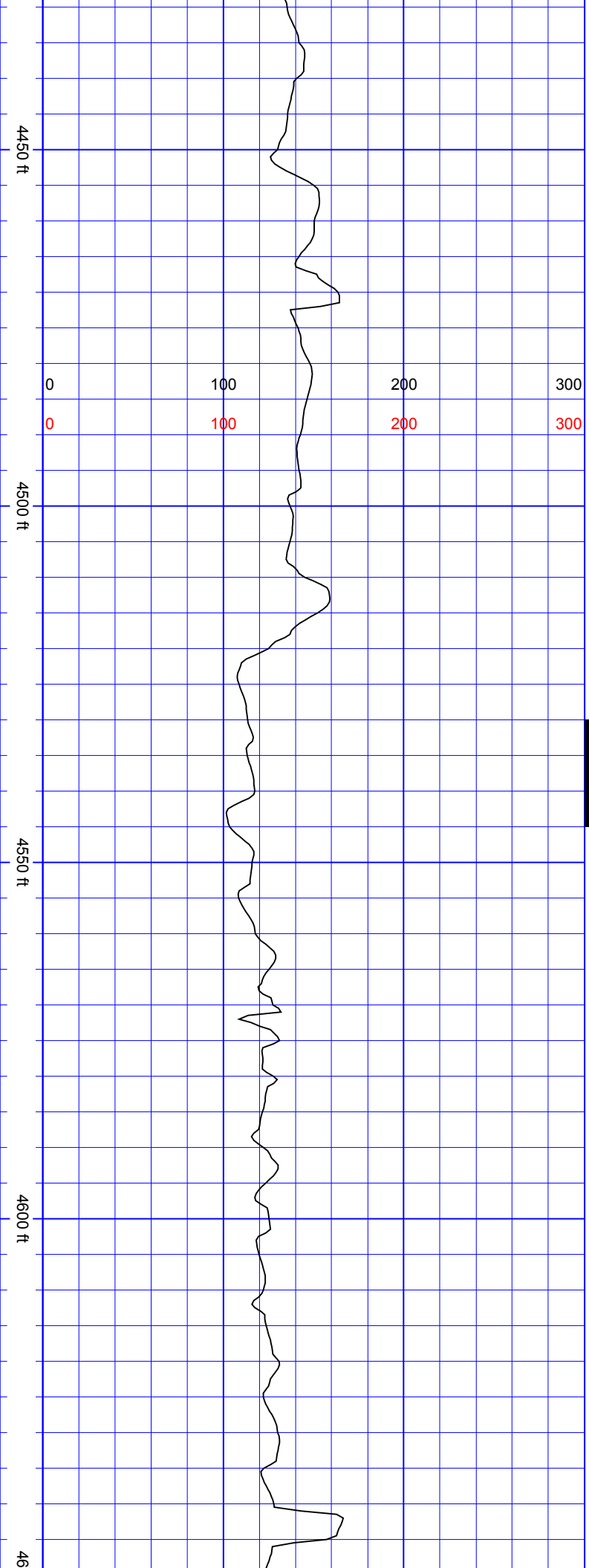
SurveyDepth:4066
TVD:3985.02 Inc:12.61
Azi:139.39 VertSec:-
474.46





SurveyDepth:4255
TVD:4168.01 Inc:16.3
Azi:135.44 VertSec:-
501.71

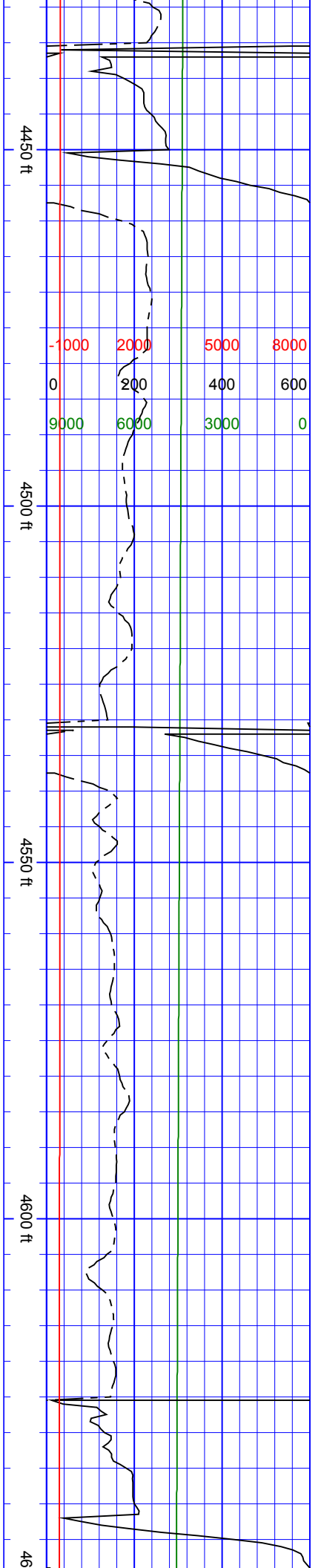


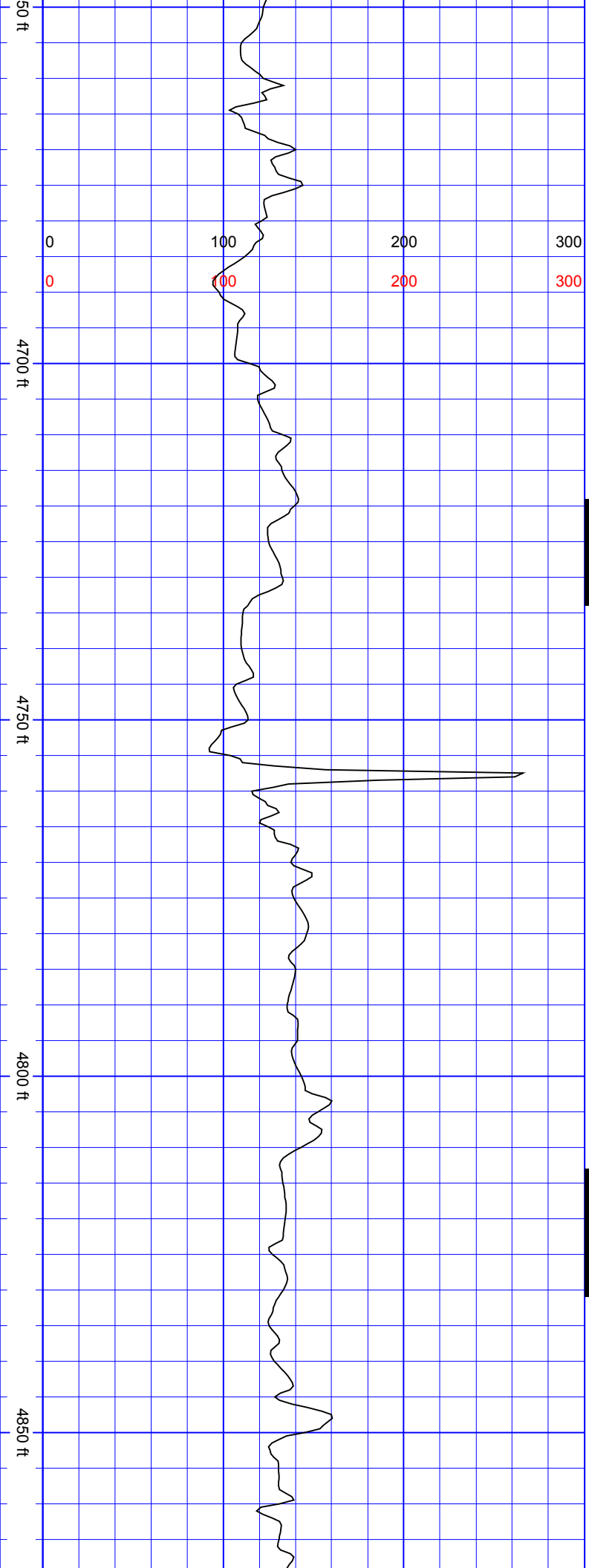


SurveyDepth:4466
TVD:4372.35 Inc:13.89
Azi:133.15 VertSec:-530.84

SurveyDepth:4560
TVD:4463.94 Inc:12.09
Azi:131.04 VertSec:-542.49

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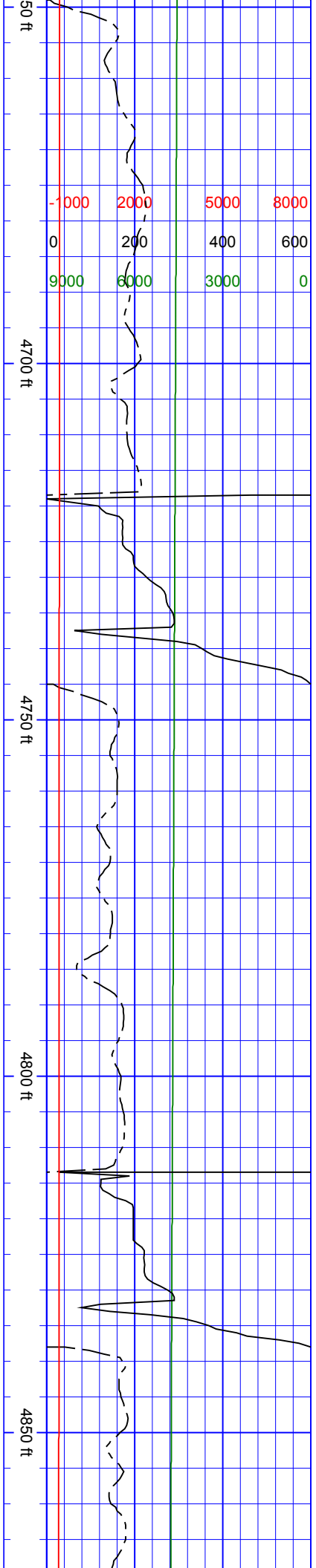


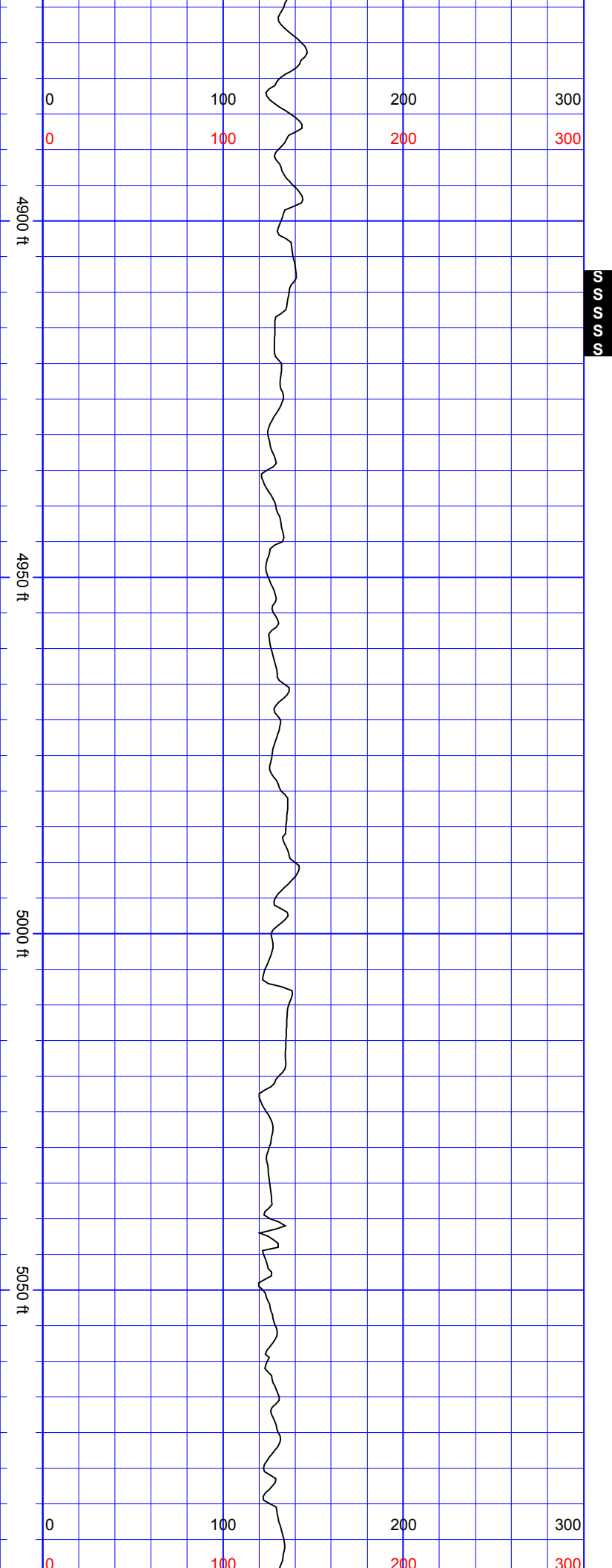


SurveyDepth:4655
TVD:4556.94 Inc:11.43
Azi:131.57 VertSec:-
552.92

SurveyDepth:4749
TVD:4648.99 Inc:11.95
Azi:136.23 VertSec:-
563.91

SurveyDepth:4843
TVD:4740.63 Inc:13.8
Azi:139.48 VertSec:-
577.16

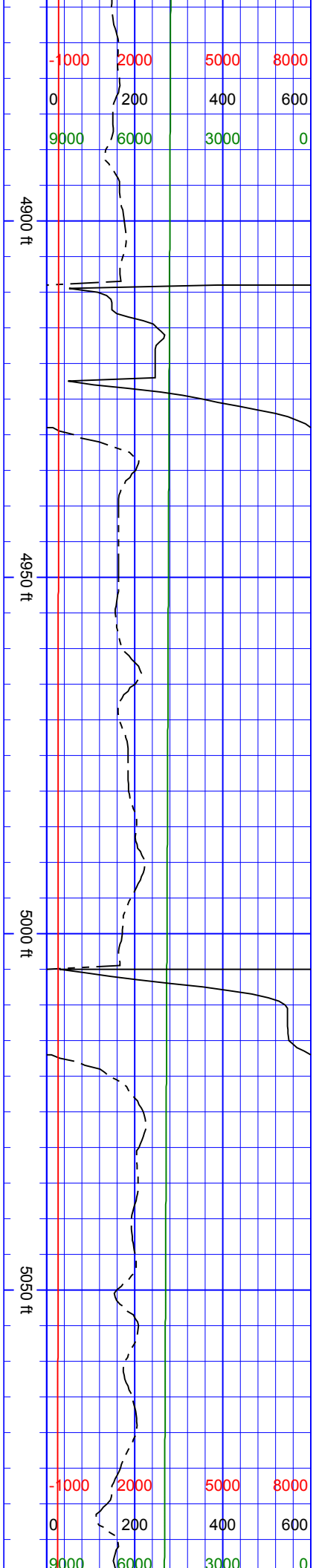


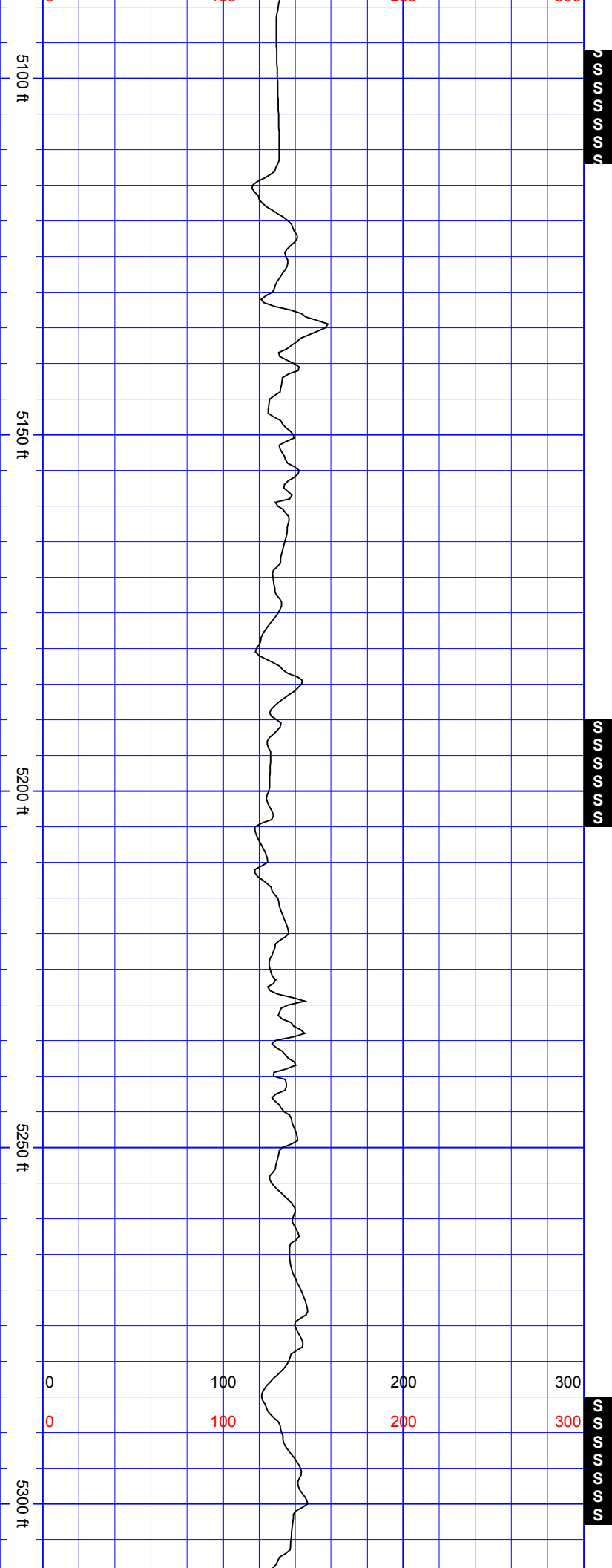


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SurveyDepth:4938
TVD:4832.75 Inc:14.46
Azi:140.36 VertSec:-
592.44

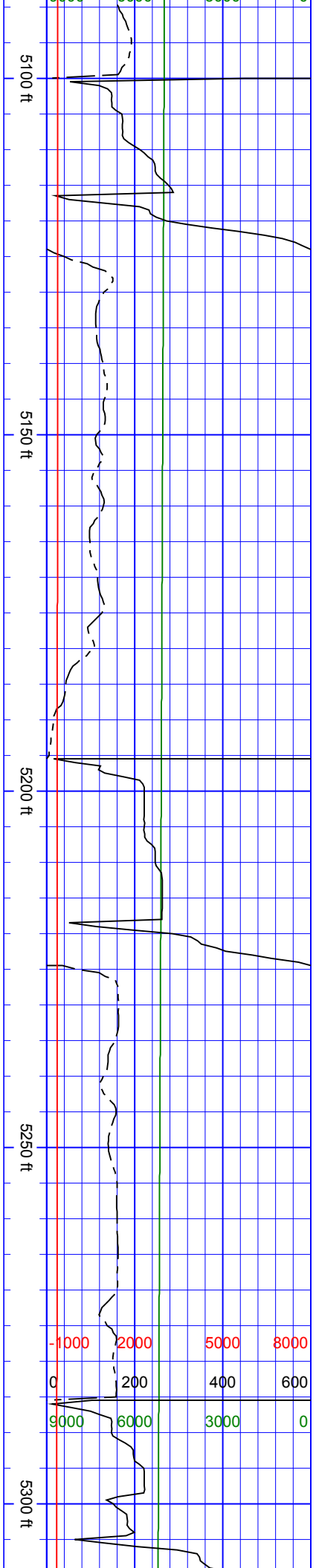
SurveyDepth:5032
TVD:4924.15 Inc:12.57
Azi:138.78 VertSec:-
606.83

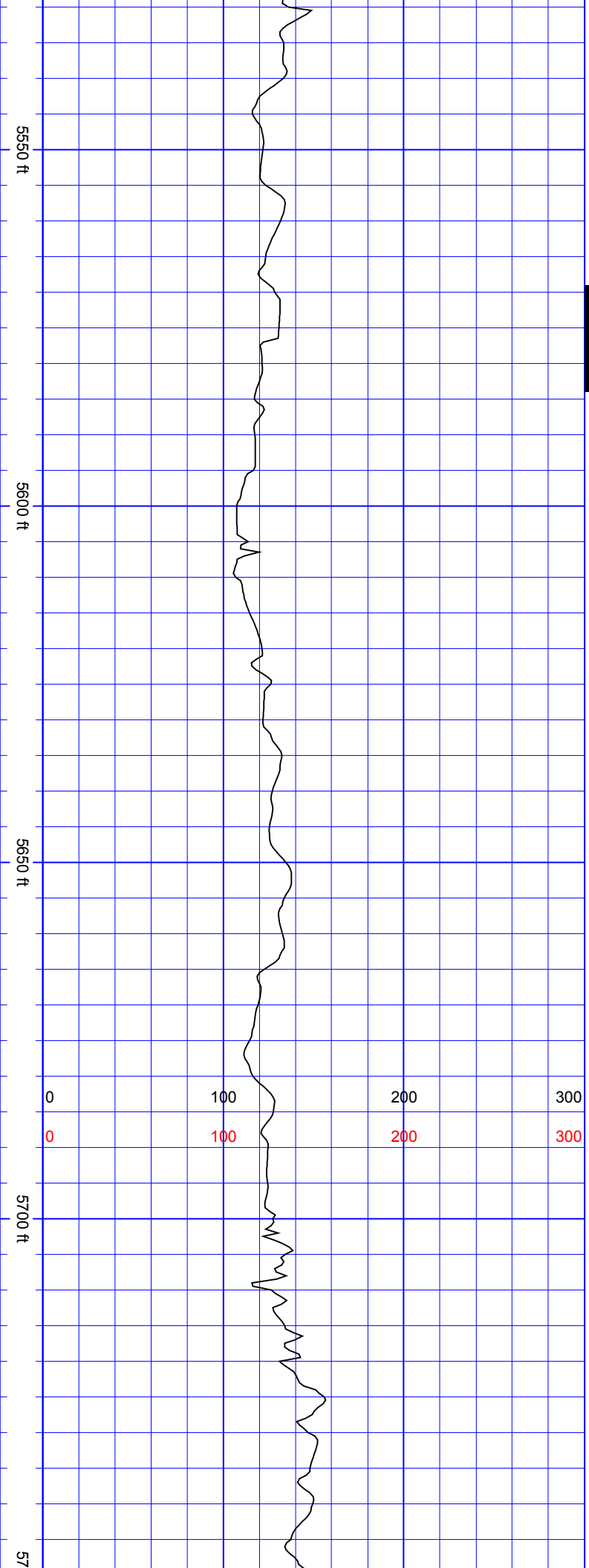




SurveyDepth:5126
TVD:5015.81 Inc:13.05
Azi:138.51 VertSec:-
620.21

SurveyDepth:5221
TVD:5108.48 Inc:12.39
Azi:139.83 VertSec:-
633.78

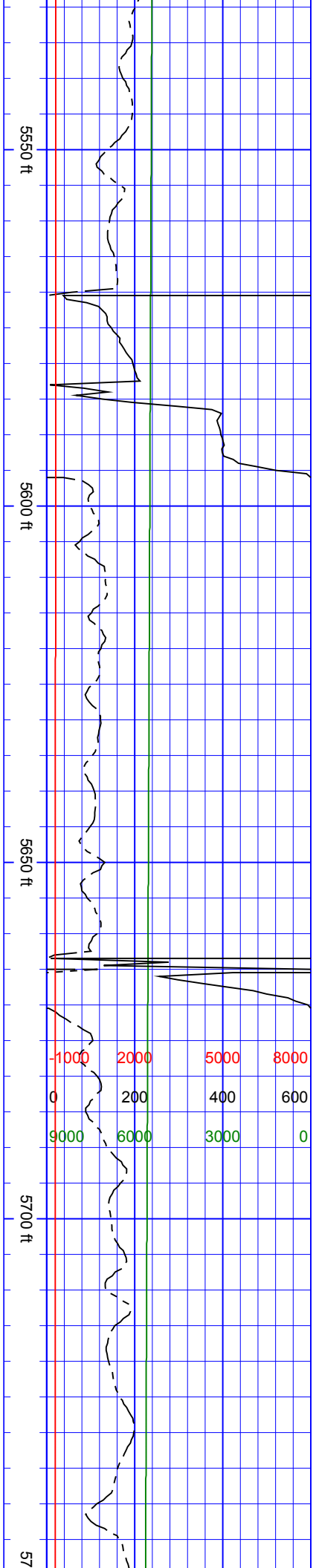


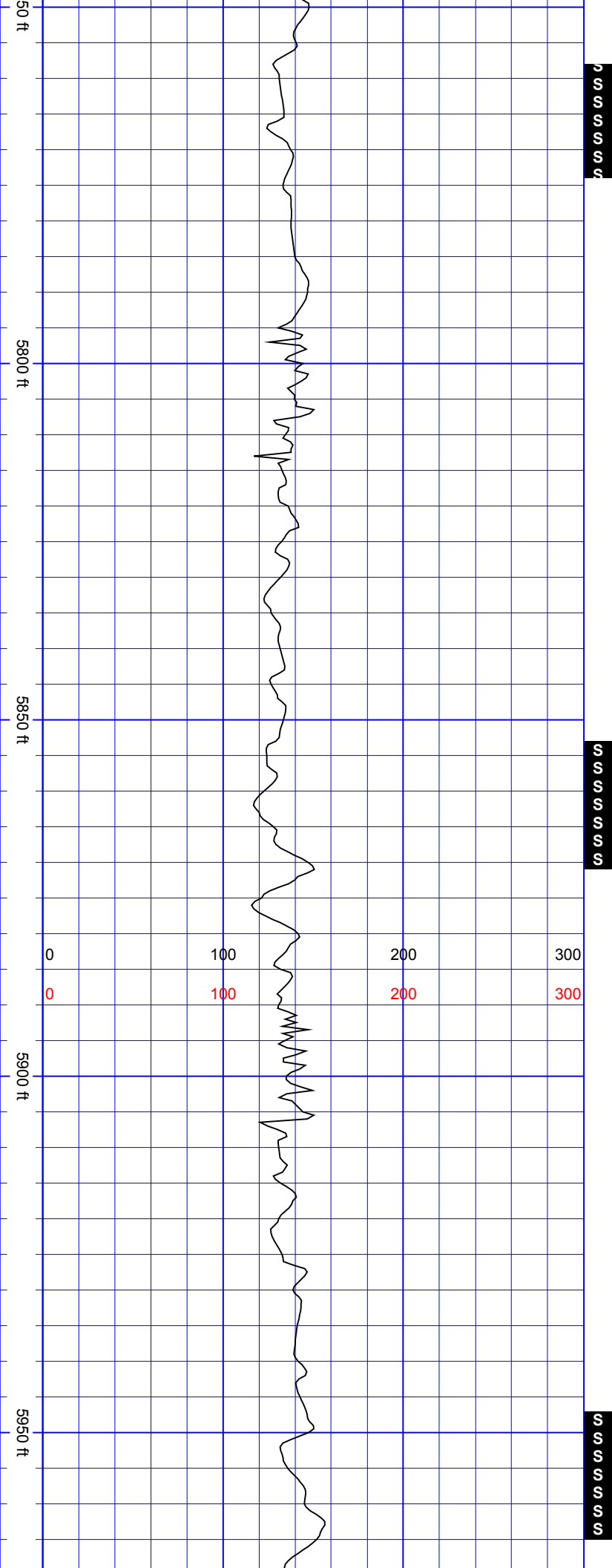


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SurveyDepth:5599
TVD:5476.72 Inc:13.45
Azi:132.89 VertSec:-
689.22

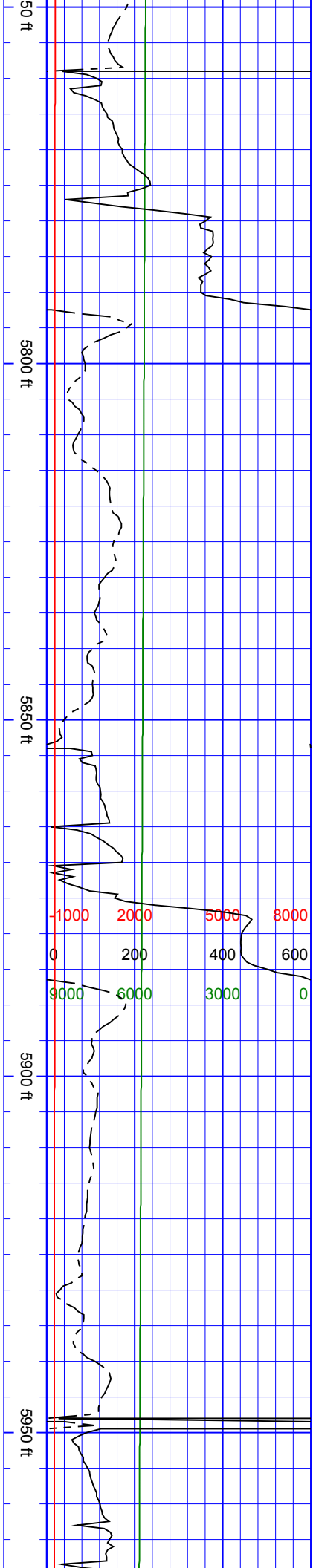
SurveyDepth:5694
TVD:5569.48 Inc:11.43
Azi:132.27 VertSec:-
700.63

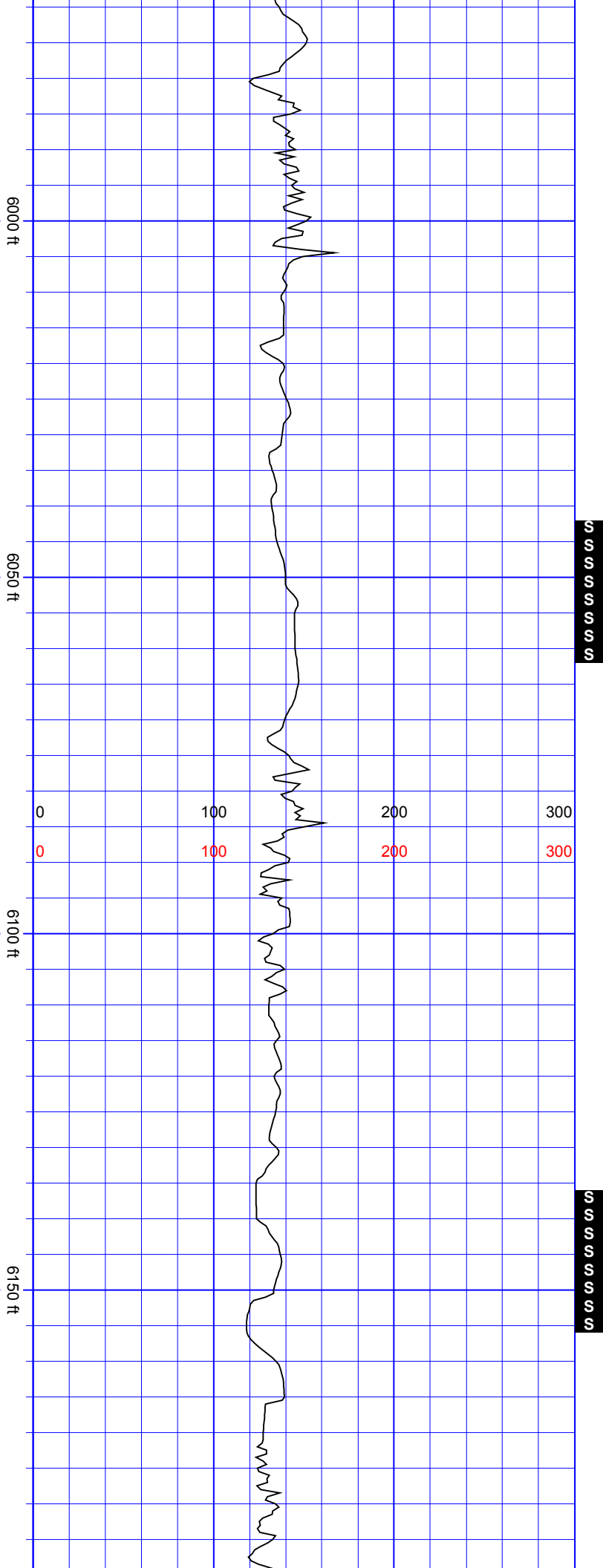




SurveyDepth:5789
TVD:5662.59 Inc:11.51
Azi:130.43 VertSec:-
710.82

SurveyDepth:5883
TVD:5754.6 Inc:12.13
Azi:137.2 VertSec:-721.9

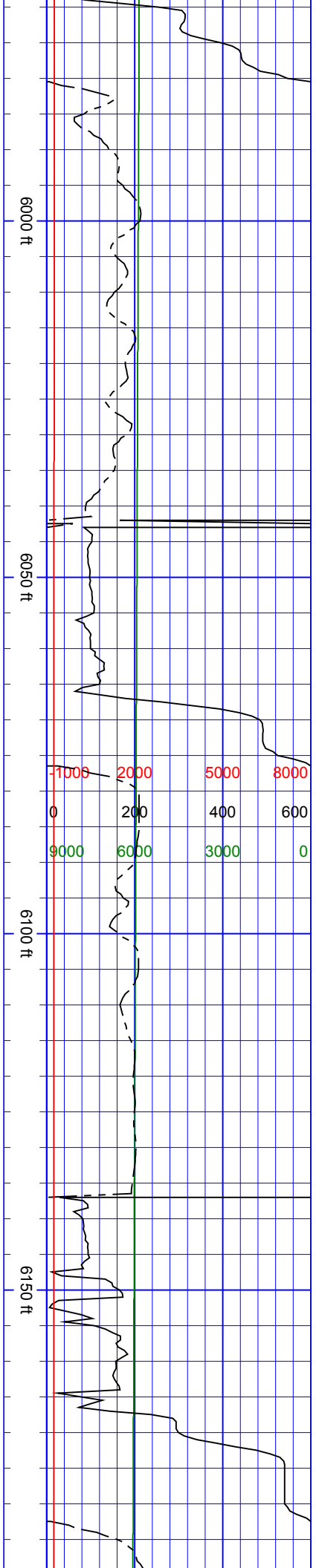


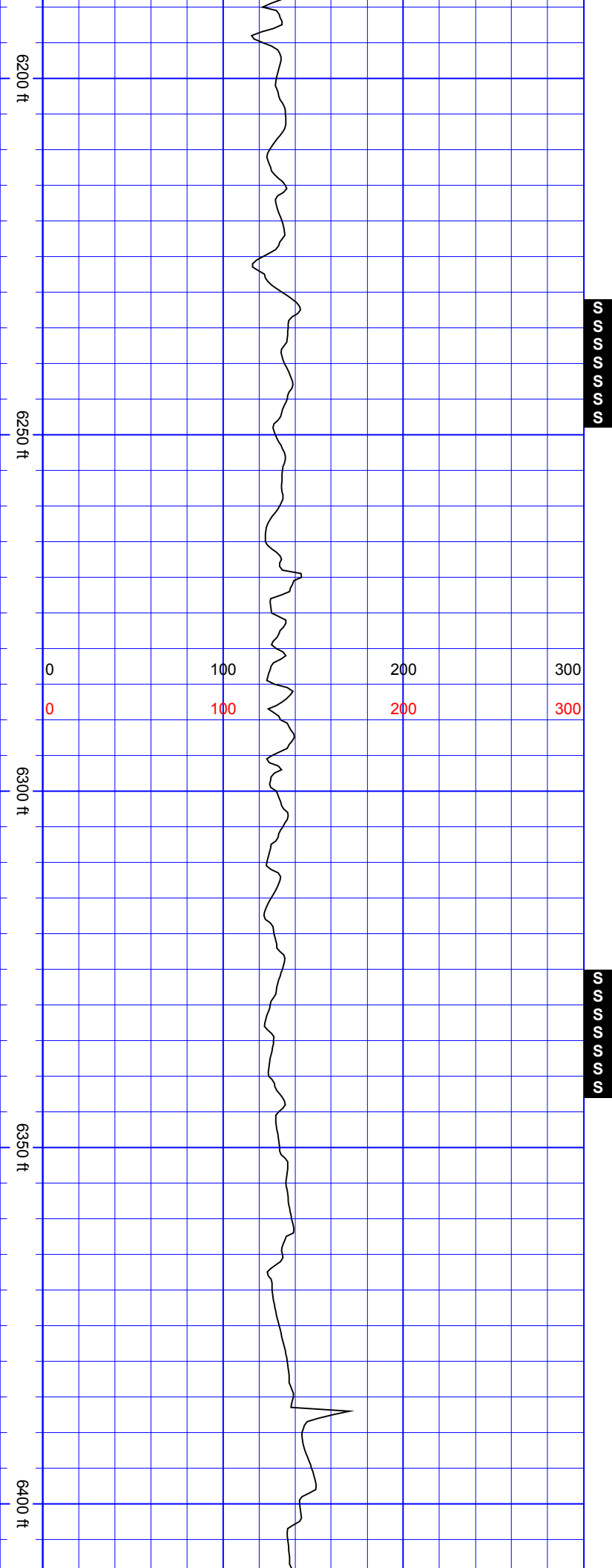


SurveyDepth:5978
TVD:5847.41 Inc:12.52
Azi:135.26 VertSec:-
734.25

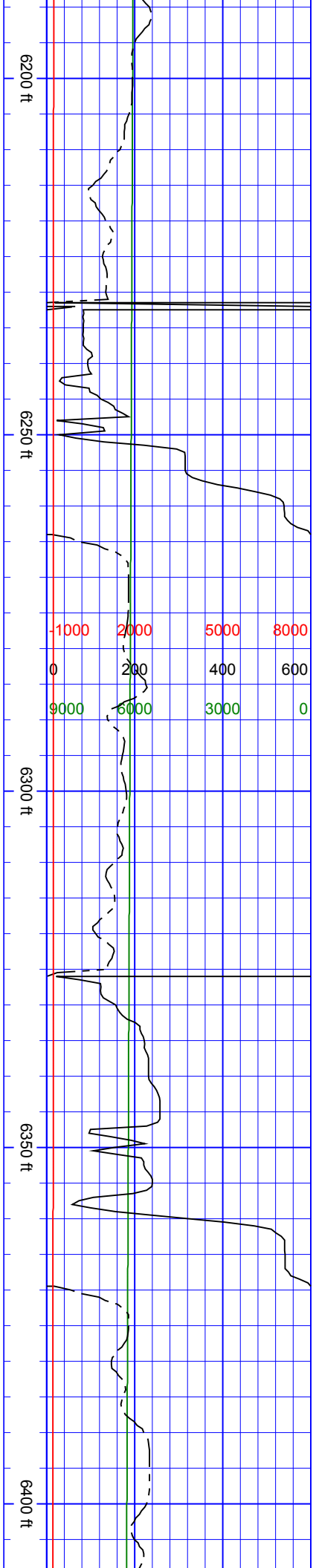
SurveyDepth:6072
TVD:5939.14 Inc:12.79
Azi:124.54 VertSec:-
744.86

SurveyDepth:6167
TVD:6031.68 Inc:13.36
Azi:119.71 VertSec:-
753.37





SurveyDepth:6261
TVD:6123.34 Inc:12.26
Azi:126.3 VertSec:-
761.89



SurveyDepth:6356
TVD:6216.35 Inc:11.34
Azi:139.48 VertSec:-
772.67

6450 ft

6500 ft

6550 ft

6600 ft

0 100 200 300
0 100 200 300

SurveyDepth:6450
TVD:6308.83 Inc:9.27
Azi:137.2 VertSec:-
783.42

SurveyDepth:6497
TVD:6355.26 Inc:8.48
Azi:139.13 VertSec:-
788.02

SurveyDepth:6545
TVD:6402.69 Inc:9.54
Azi:111.71 VertSec:-
791.22

SurveyDepth:6592
TVD:6448.96 Inc:10.99
Azi:89.21 VertSec:-
791.35



6450 ft

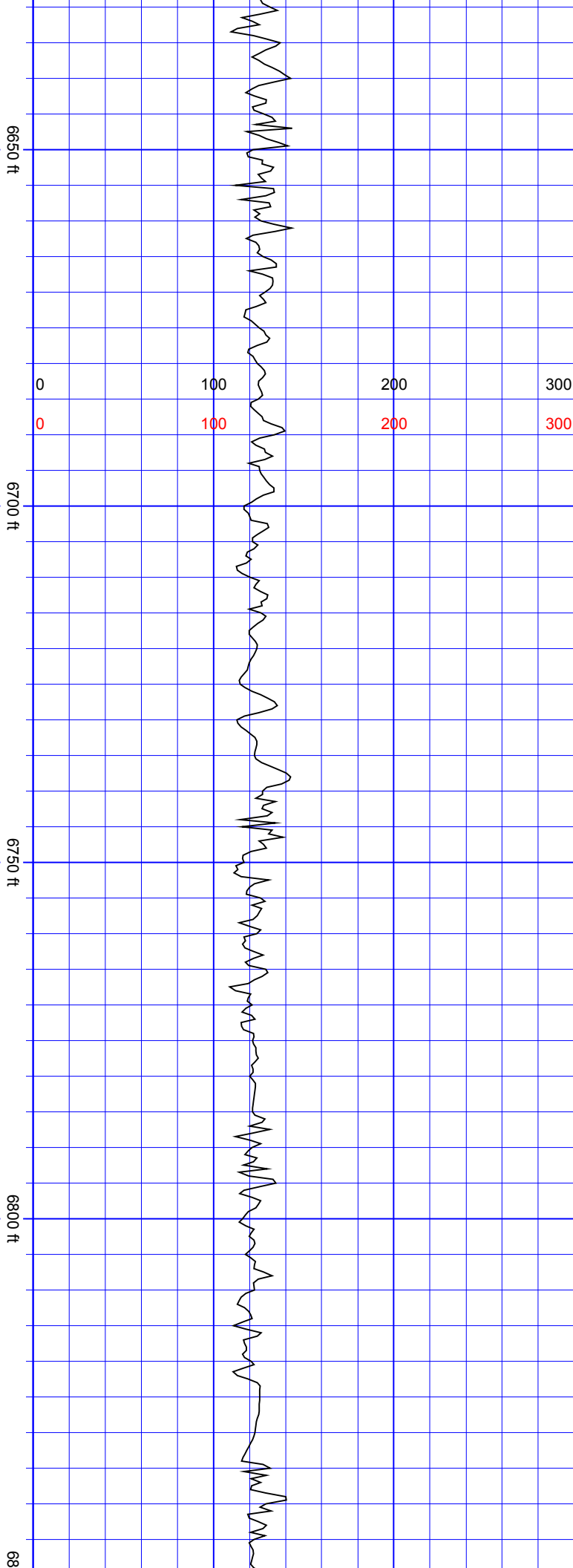
6500 ft

6550 ft

6600 ft

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

August 30,



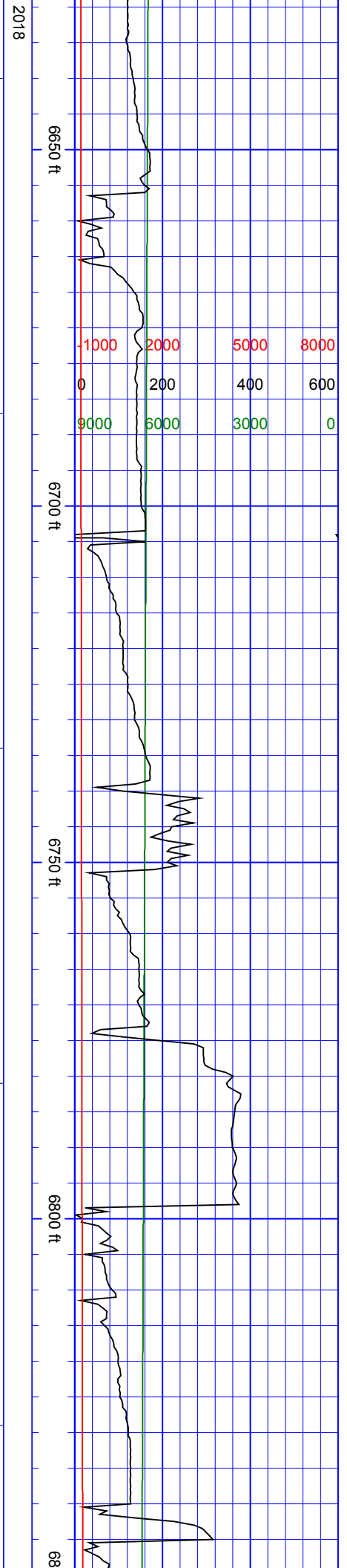
SurveyDepth:6640
TVD:6496.09 Inc:11.69
Azi:49.48 VertSec:-786.91

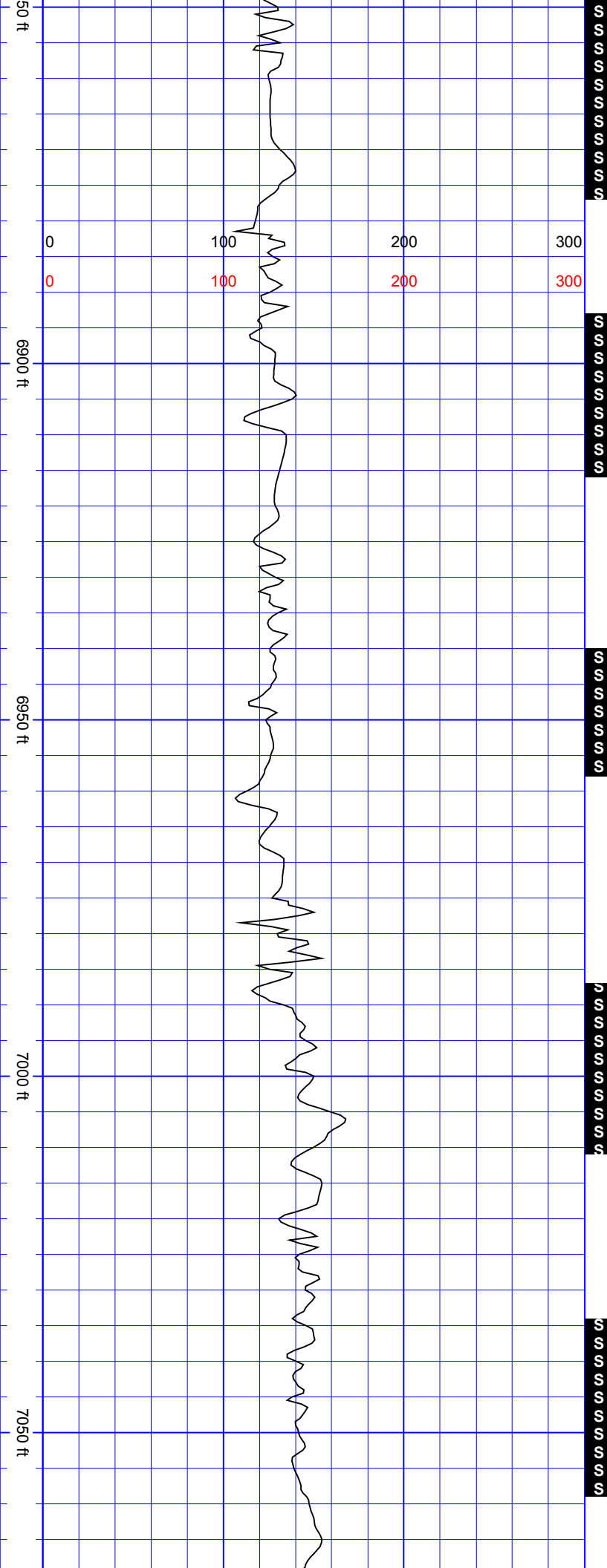
SurveyDepth:6687
TVD:6541.87 Inc:14.81
Azi:26.1 VertSec:-777.56

SurveyDepth:6734
TVD:6586.71 Inc:19.91
Azi:24.43 VertSec:-764.12

SurveyDepth:6781
TVD:6630.53 Inc:22.5
Azi:24.43 VertSec:-747.76

SurveyDepth:6829
TVD:6674.25 Inc:26.19
Azi:20.04 VertSec:-728.52





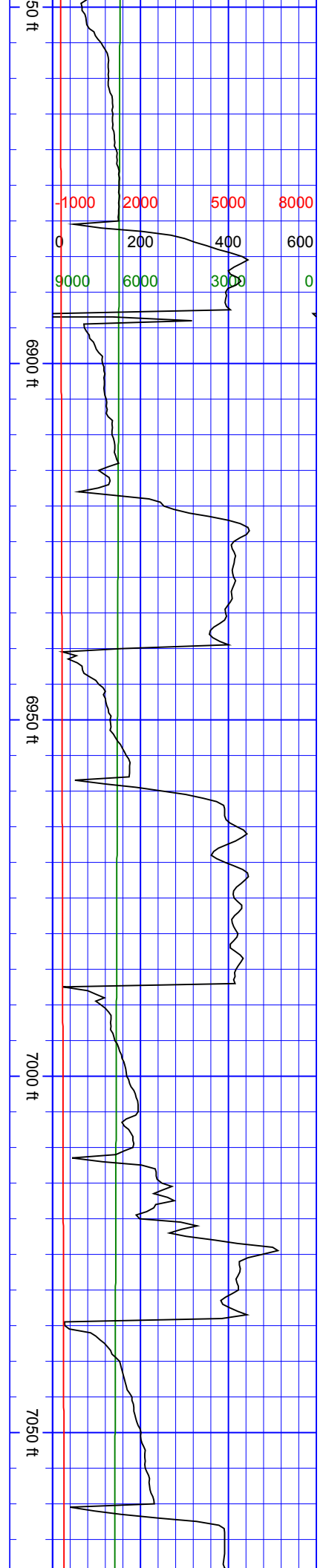
SurveyDepth:6876
TVD:6715.74 Inc:29.93
Azi:9.93 VertSec:-706.61

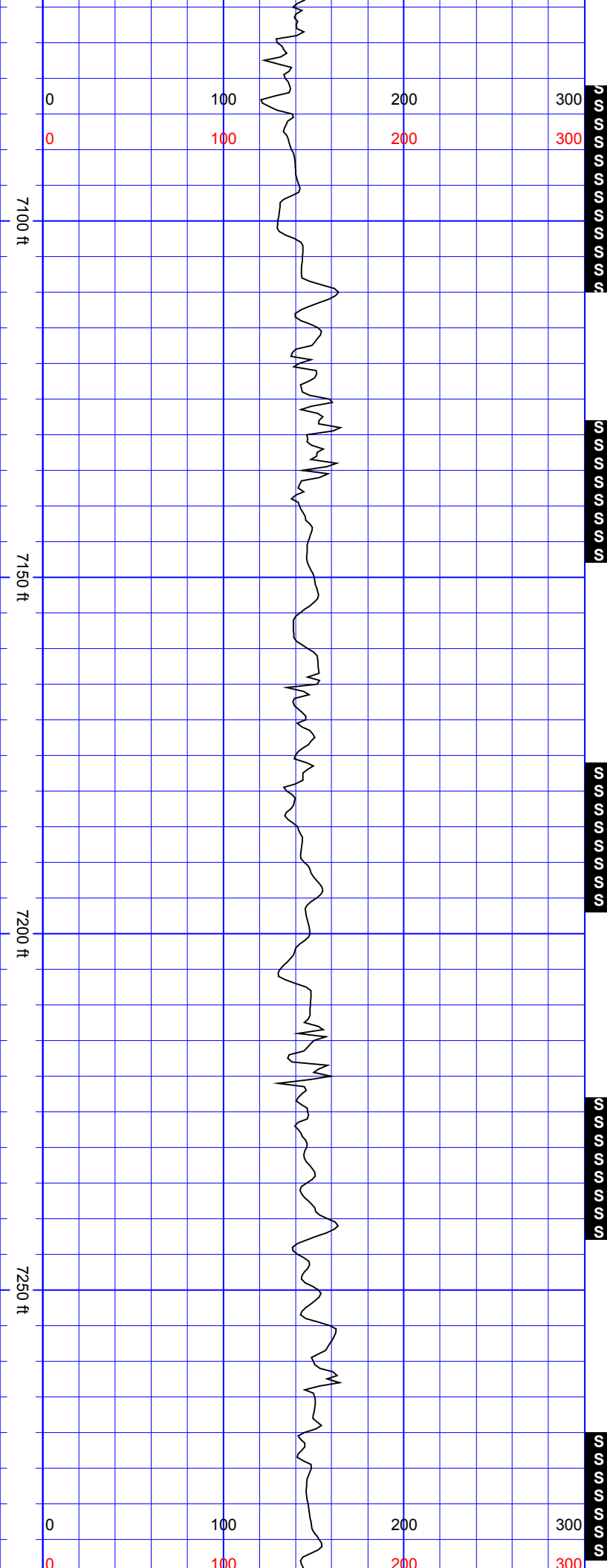
SurveyDepth:6923
TVD:6755.96 Inc:32.39
Azi:7.65 VertSec:-682.3

SurveyDepth:6970
TVD:6795.22 Inc:34.32
Azi:7.47 VertSec:-656.46

SurveyDepth:7017
TVD:6833.51 Inc:36.56
Azi:6.68 VertSec:-629.22

SurveyDepth:7064
TVD:6870.39 Inc:40.03





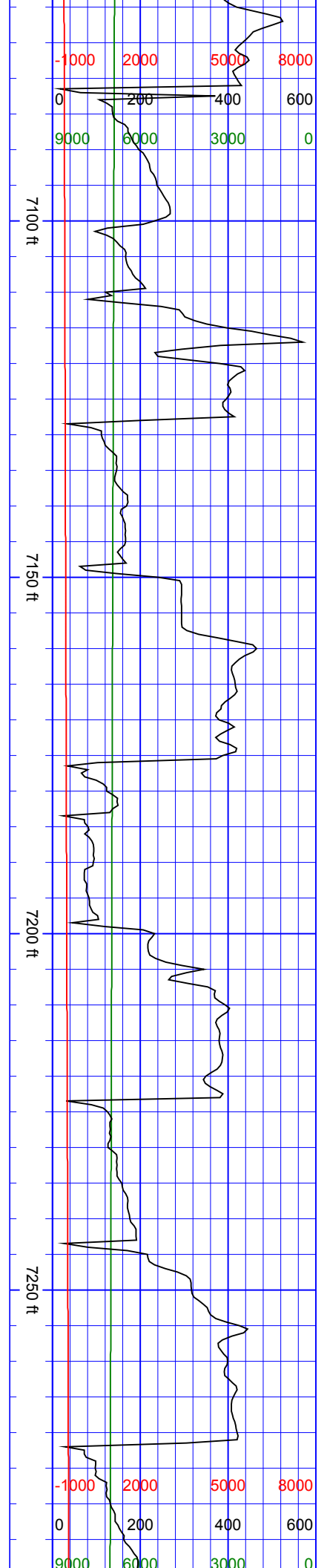
Azi:6.15 VertSec:-600.12

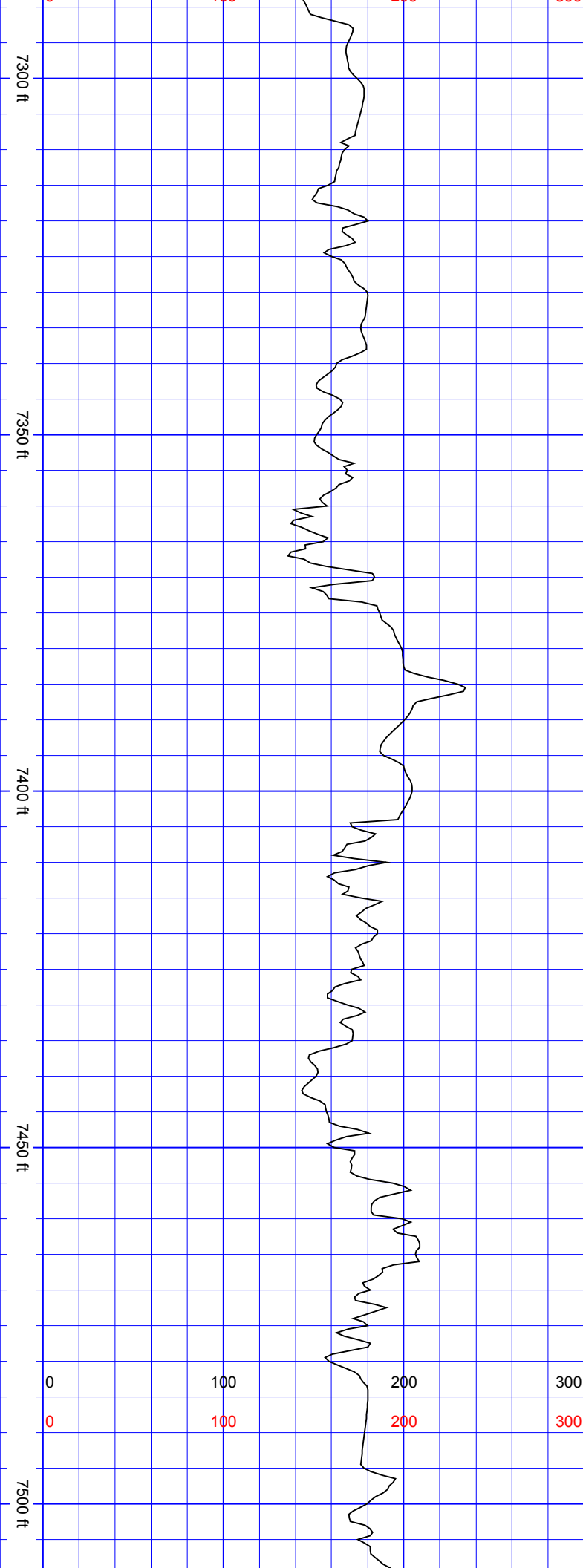
SurveyDepth:7112
TVD:6906.38 Inc:42.85
Azi:10.55 VertSec:-568.38

SurveyDepth:7159
TVD:6939.96 Inc:45.92
Azi:10.37 VertSec:-535.52

SurveyDepth:7206
TVD:6971.79 Inc:48.82
Azi:9.75 VertSec:-500.95

SurveyDepth:7253
TVD:7001.89 Inc:51.55
Azi:6.94 VertSec:-464.86





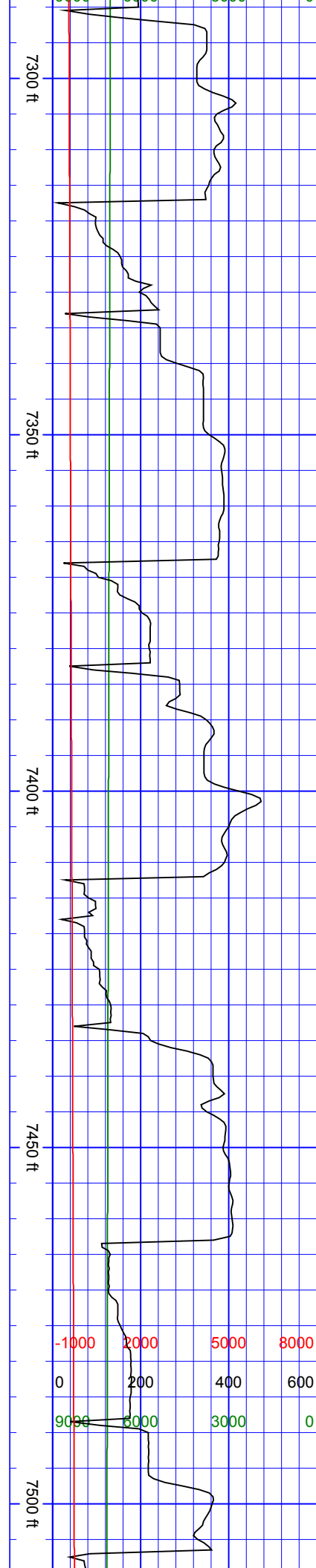
SurveyDepth:7301
TVD:7030.86 Inc:54.19
Azi:5.89 VertSec:-426.63

SurveyDepth:7348
TVD:7058.14 Inc:54.84
Azi:7.21 VertSec:-388.39

SurveyDepth:7396
TVD:7085.34 Inc:56.12
Azi:8.35 VertSec:-348.85

SurveyDepth:7443
TVD:7110.79 Inc:58.32
Azi:8.08 VertSec:-309.33

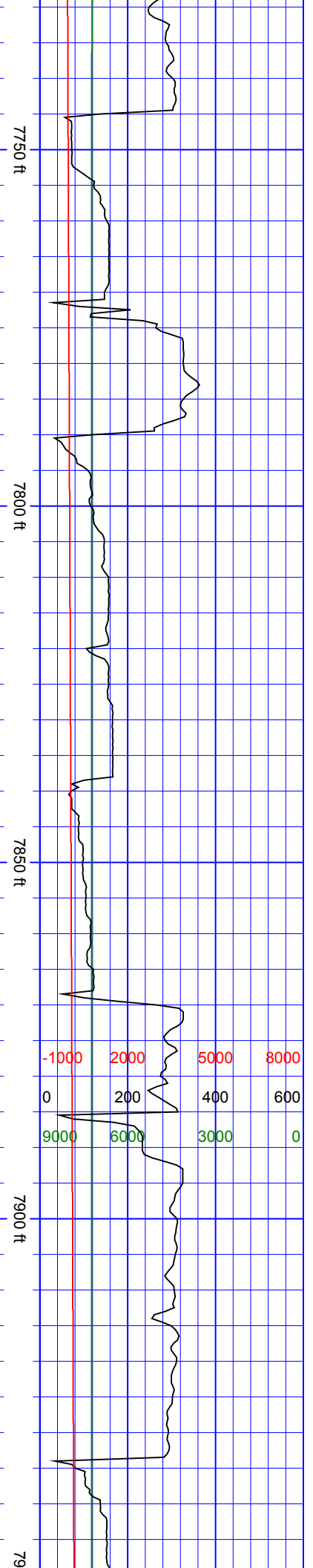
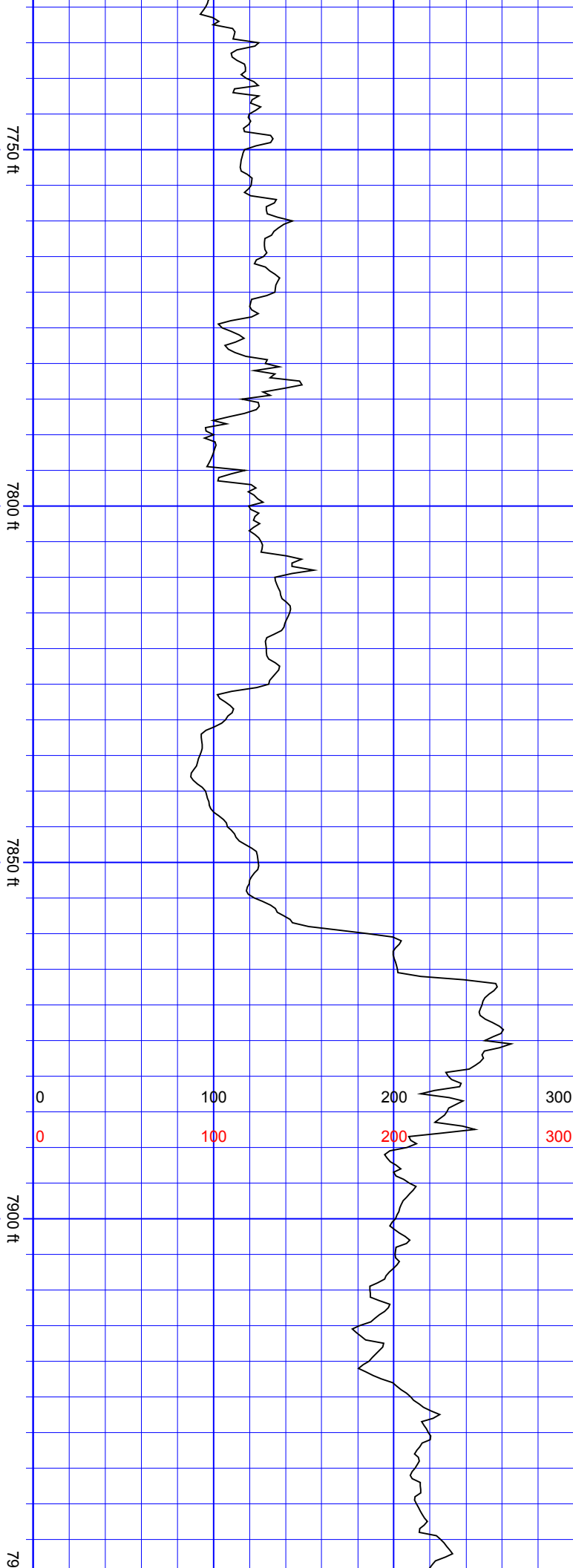
SurveyDepth:7490
TVD:7134.17 Inc:62.01
Azi:8.52 VertSec:-268.57

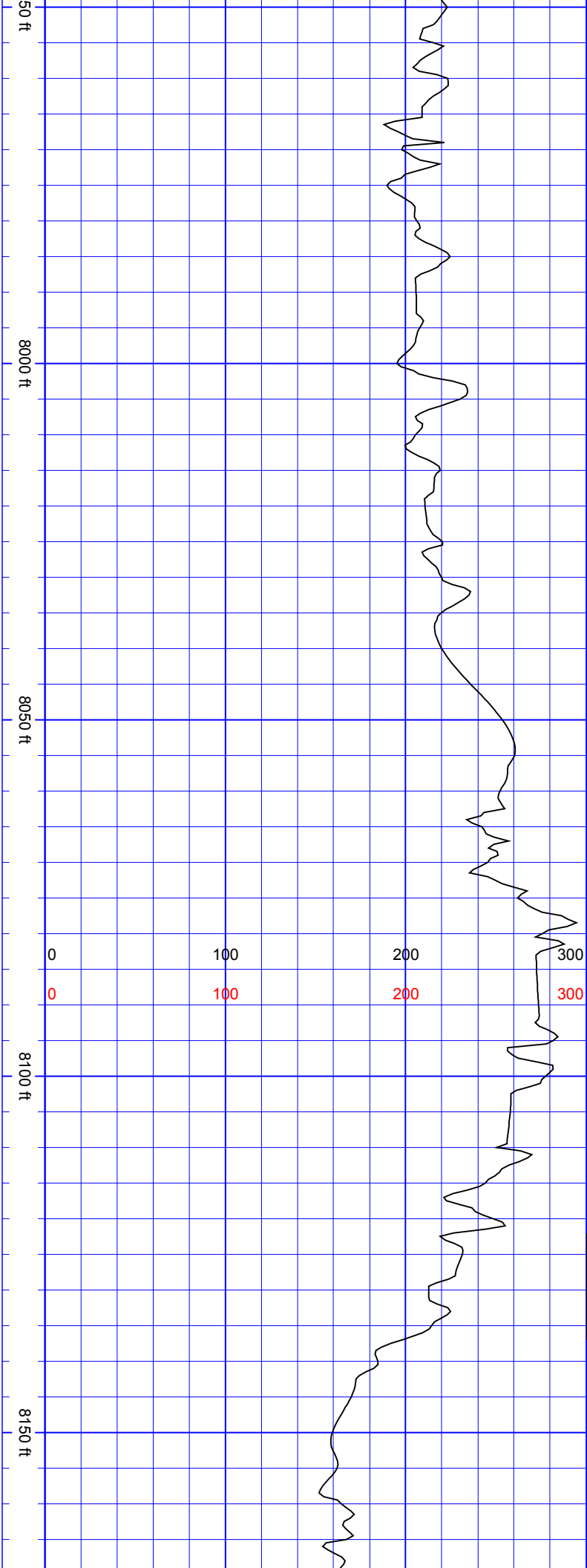


SurveyDepth:7774
TVD:7223.98 Inc:79.76
Azi:2.37 VertSec:-1.77

SurveyDepth:7821
TVD:7230.02 Inc:85.47
Azi:0.61 VertSec:44.45

SurveyDepth:7868
TVD:7231.23 Inc:91.58
Azi:0.61 VertSec:90.95

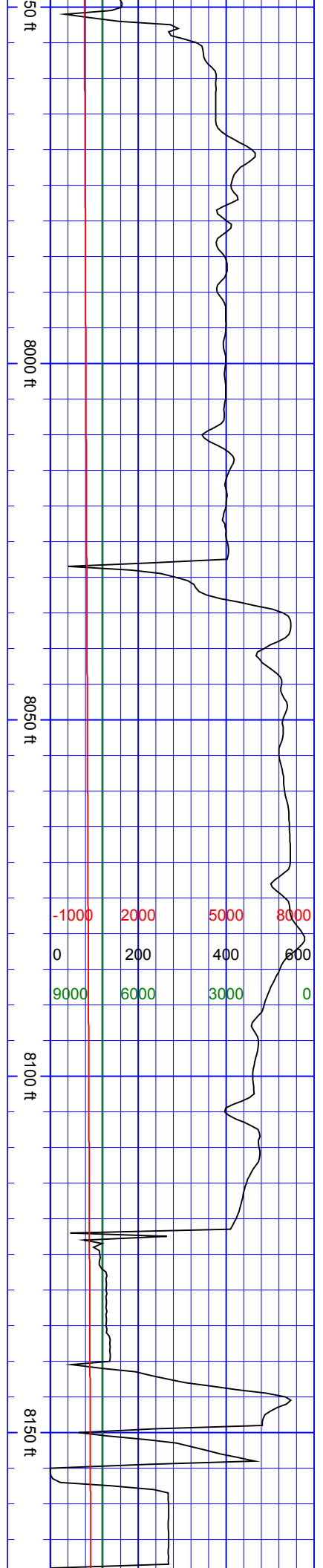




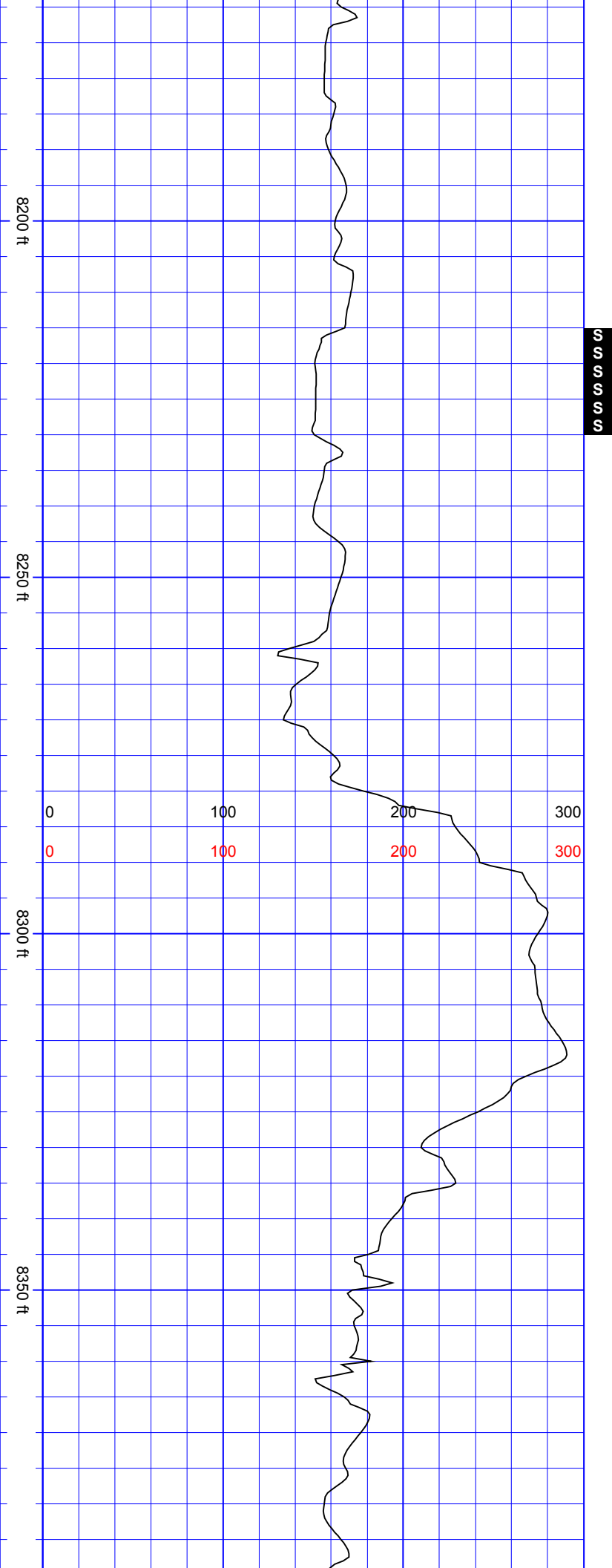
SurveyDepth: 7963
TVD: 7229.11 Inc: 90.97
Azi: 1.14 VertSec: 185.04

SurveyDepth: 8058
TVD: 7227.03 Inc: 91.54
Azi: 359.47
VertSec: 278.99

SurveyDepth: 8151
TVD: 7224.61 Inc: 91.45
Azi: 1.93 VertSec: 371.05

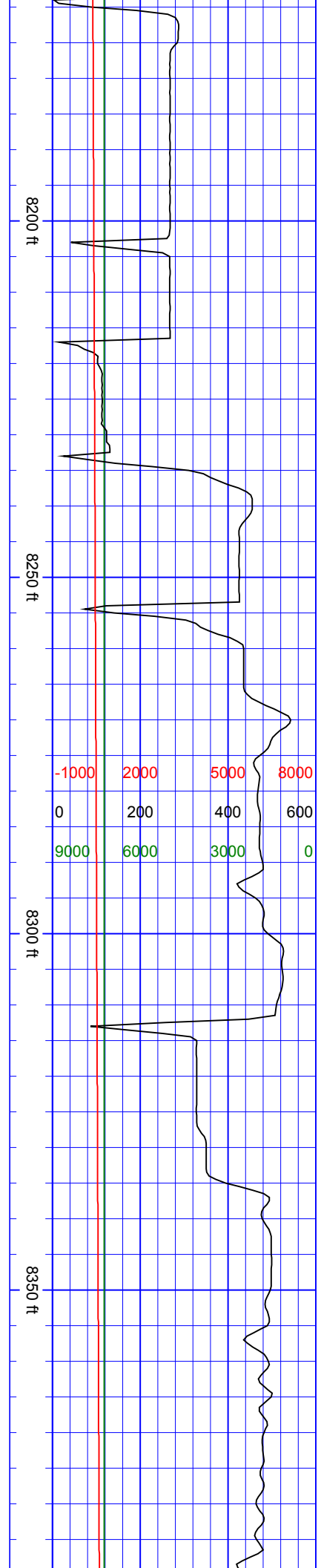


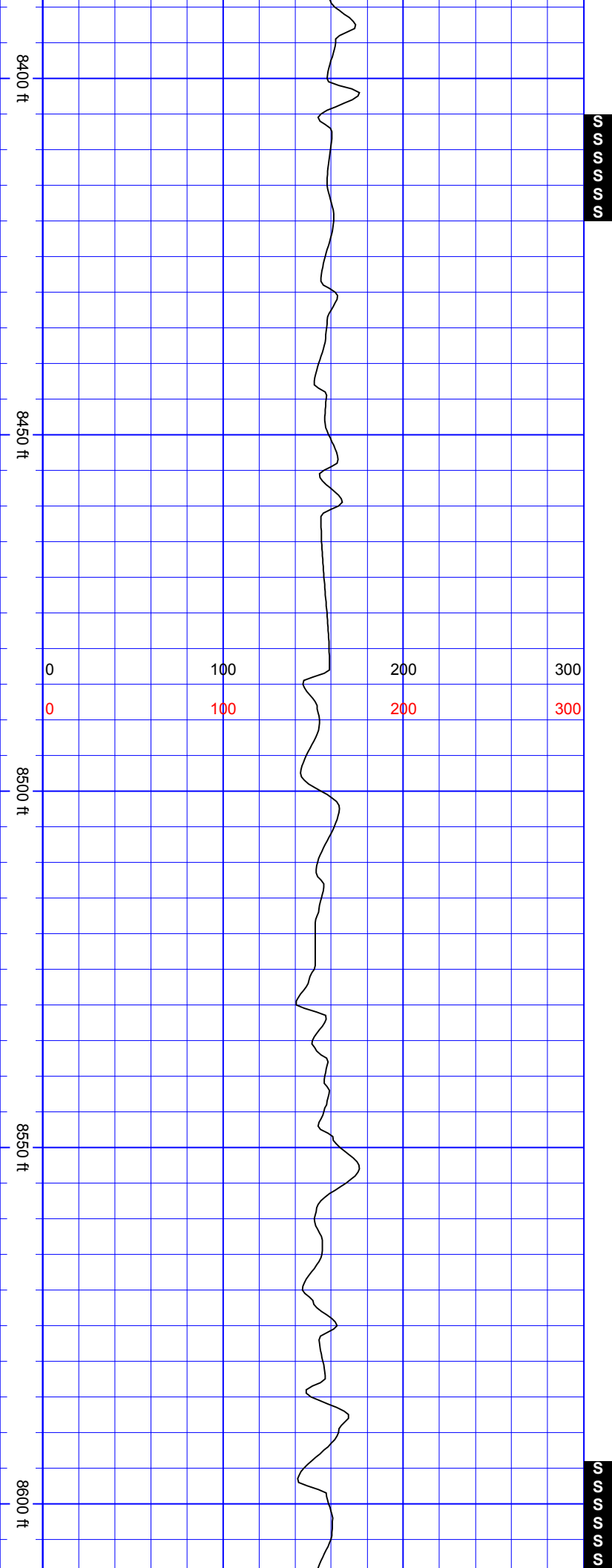
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SurveyDepth:8246
TVD:7224.13 Inc:89.12
Azi:2.64 VertSec:465.45

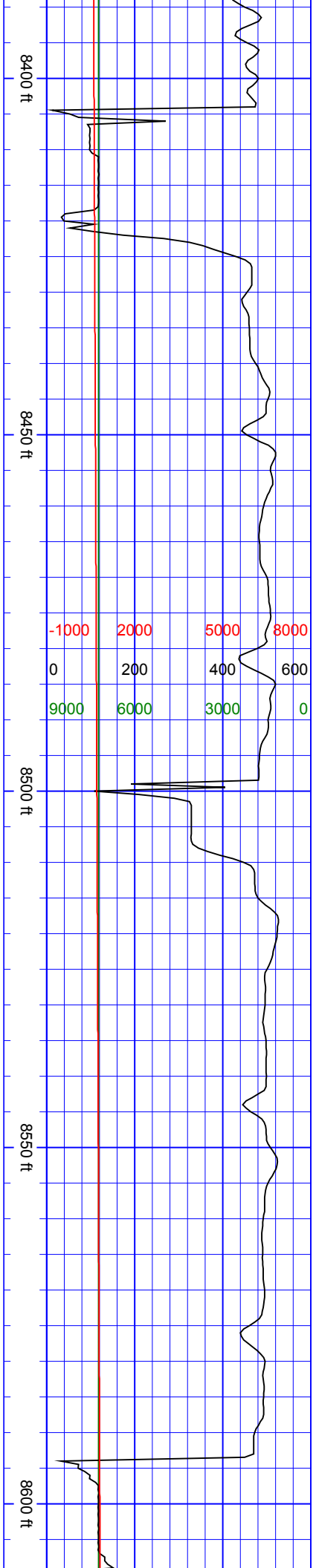
SurveyDepth:8340
TVD:7225.83 Inc:88.81
Azi:3.6 VertSec:558.98

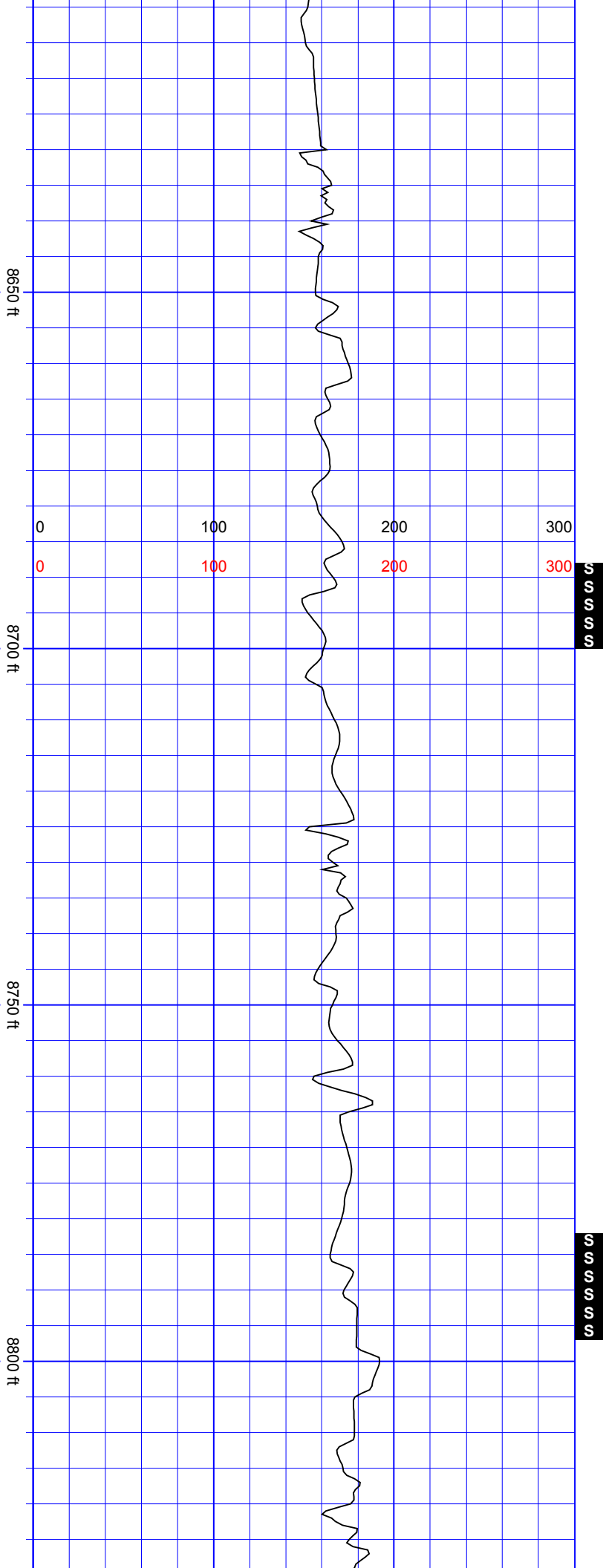




SurveyDepth:8435
TVD:7226.93 Inc:89.87
Azi:2.02 VertSec:653.47

SurveyDepth:8529
TVD:7227.06 Inc:89.96
Azi:2.46 VertSec:746.88

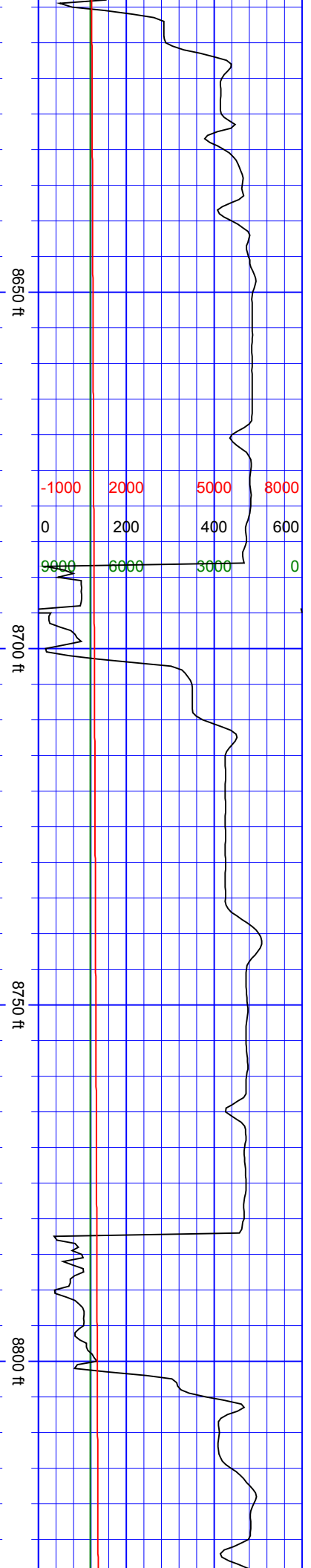


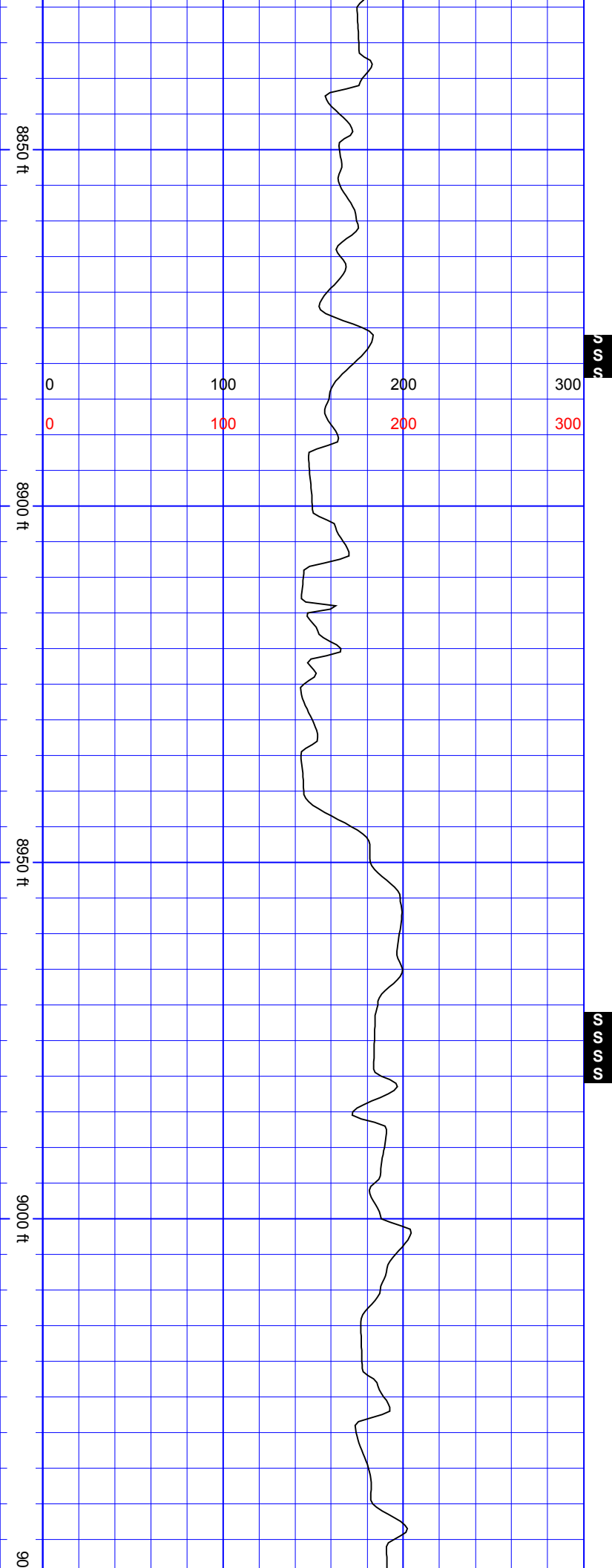


SurveyDepth:8624
TVD:7226.44 Inc:90.79
Azi:1.93 VertSec:841.26

SurveyDepth:8718
TVD:7224.82 Inc:91.19
Azi:3.95 VertSec:934.77

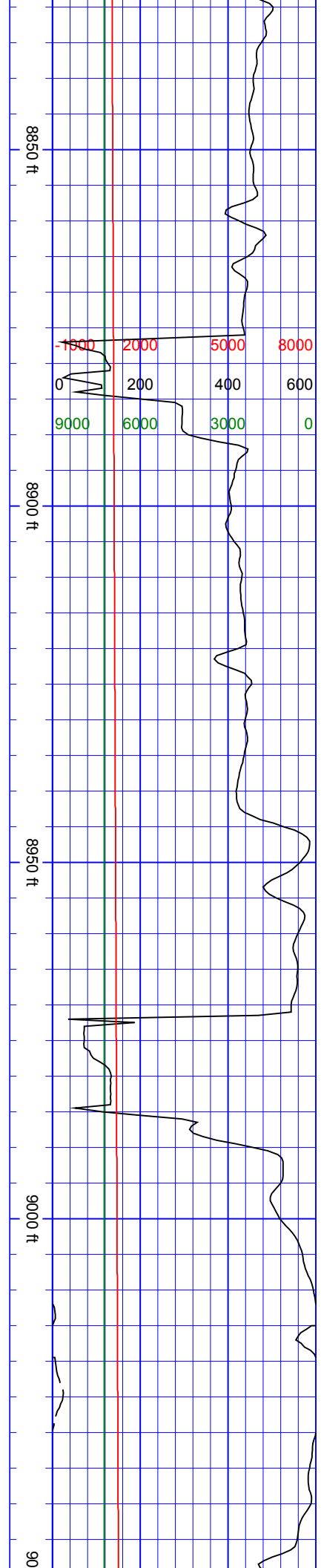
SurveyDepth:8812
TVD:7223.33 Inc:90.62
Azi:0.61
VertSec:1028.15

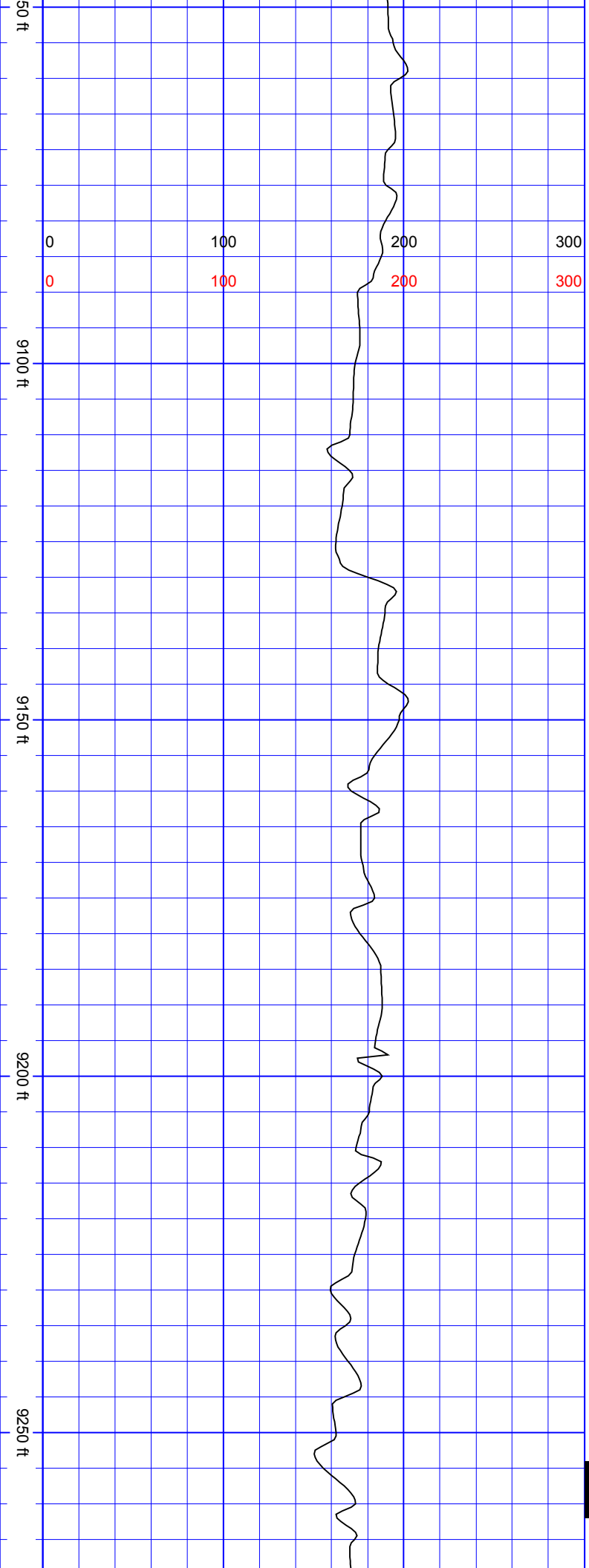




SurveyDepth:8907
TVD:7222.12 Inc:90.84
Azi:0.35
VertSec:1122.17

SurveyDepth:9002
TVD:7220.04 Inc:91.67
Azi:358.5
VertSec:1215.9

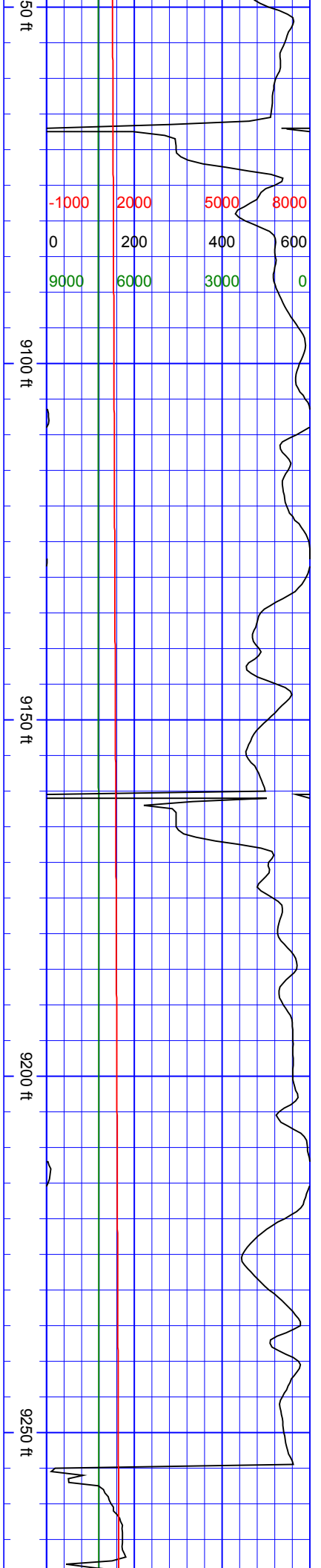


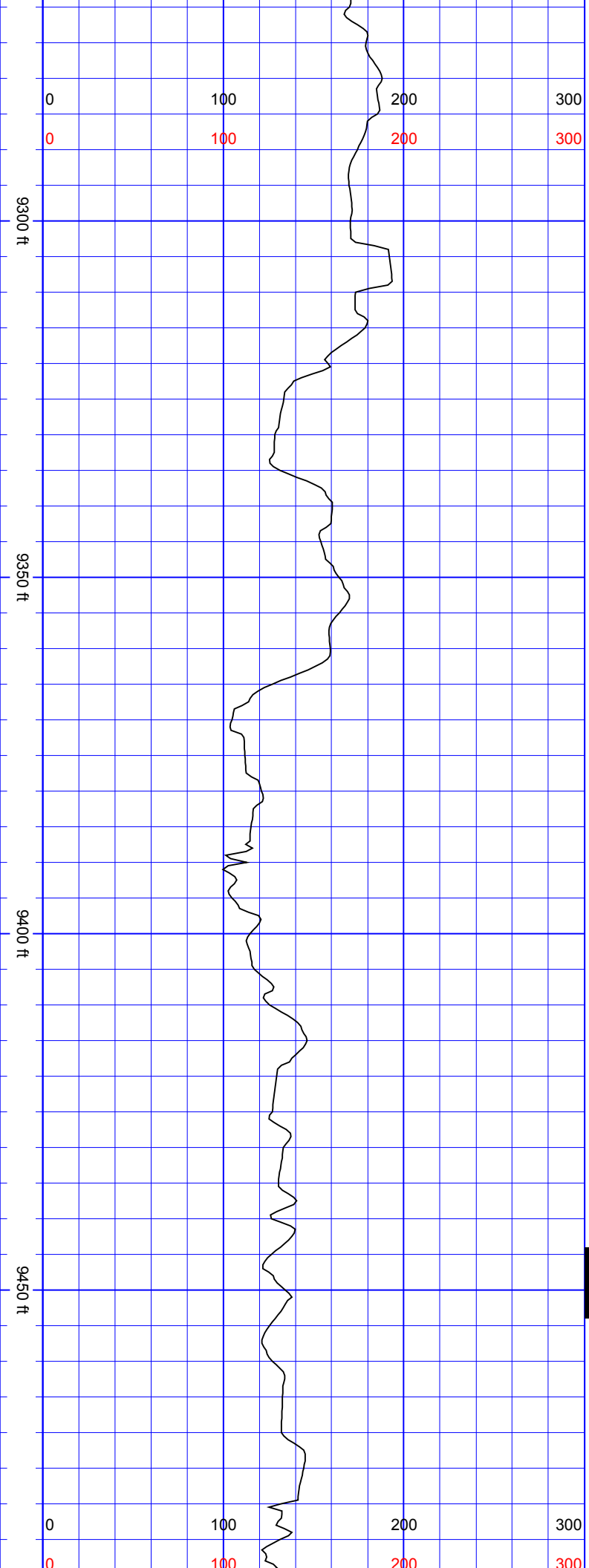


SurveyDepth:9096
TVD:7217.63 Inc:91.27
Azi:359.12
VertSec:1308.47

SurveyDepth:9190
TVD:7215.55 Inc:91.27
Azi:359.3
VertSec:1401.16

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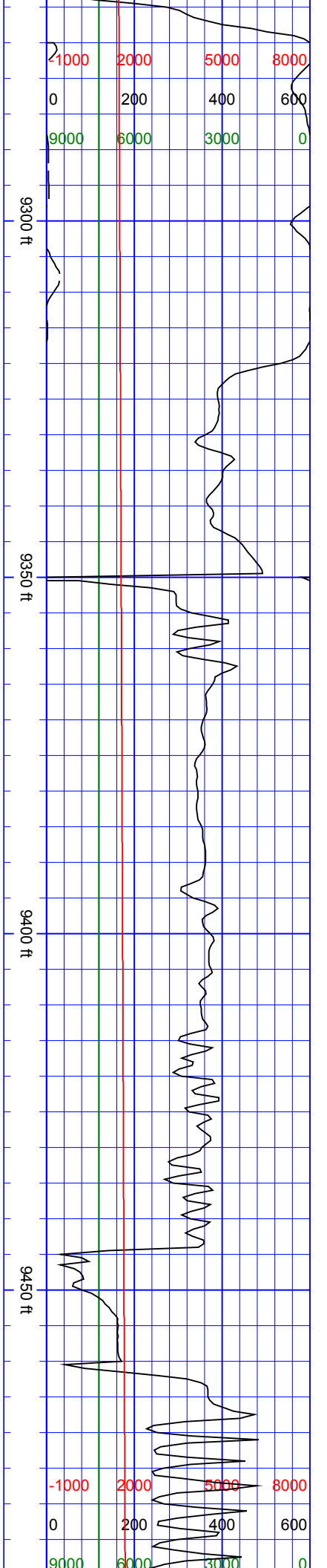


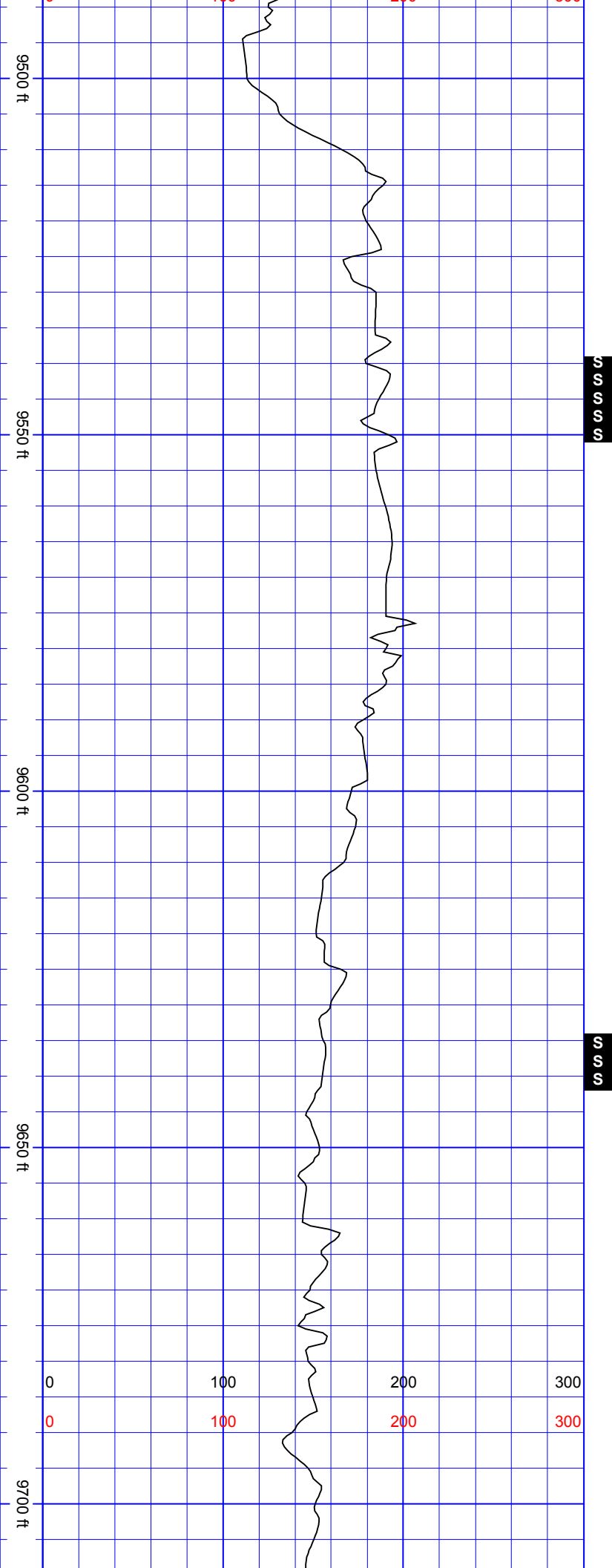
SurveyDepth:9285
TVD:7213.91 Inc:90.7
Azi:356.83
VertSec:1494.51

SurveyDepth:9380
TVD:7212.94 Inc:90.48
Azi:356.22
VertSec:1587.37

SurveyDepth:9475
TVD:7211.08 Inc:91.76
Azi:356.66
VertSec:1680.18

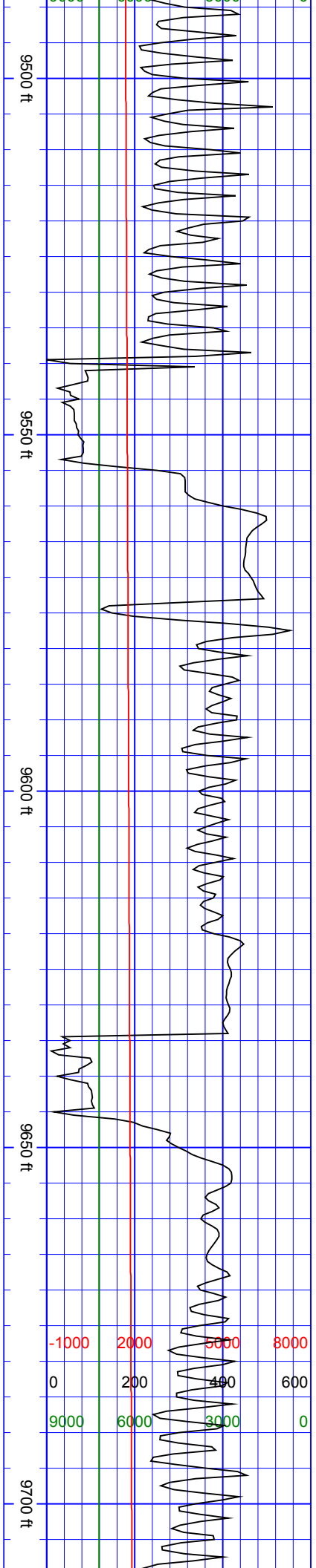
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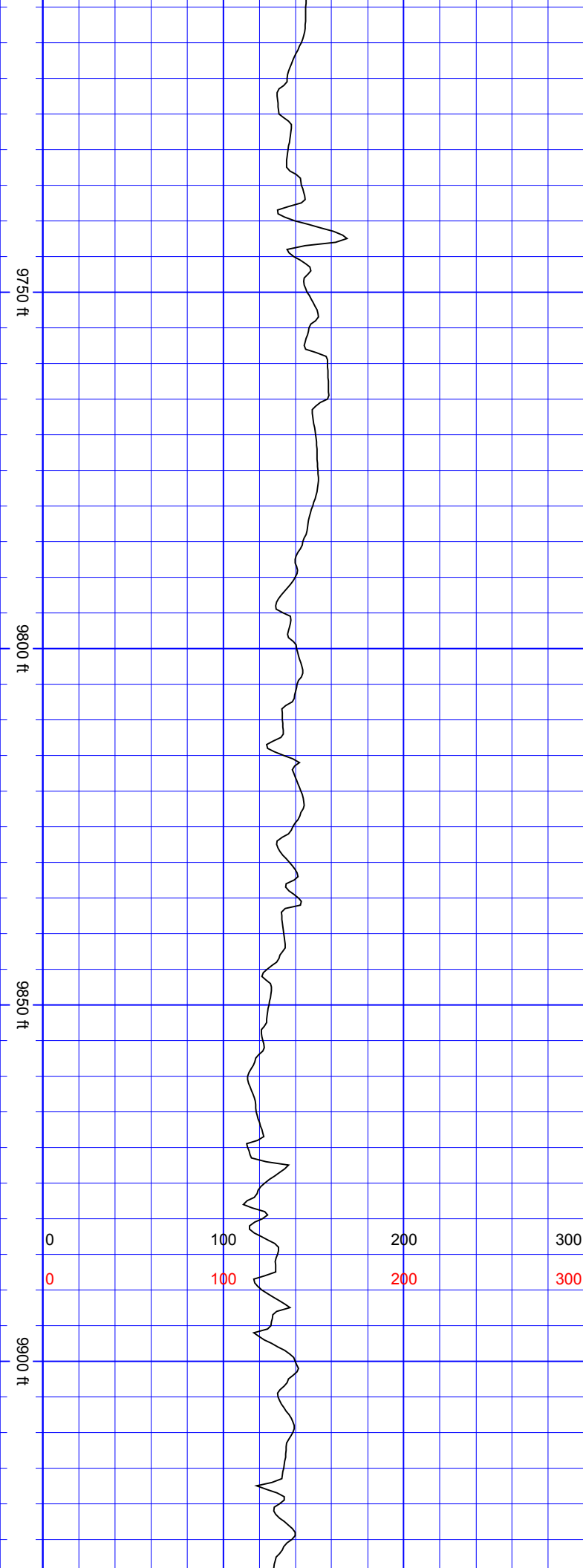




SurveyDepth:9570
TVD:7208.02 Inc:91.93
Azi:0.35
VertSec:1773.61

SurveyDepth:9664
TVD:7205.17 Inc:91.54
Azi:0.53 VertSec:1866.6

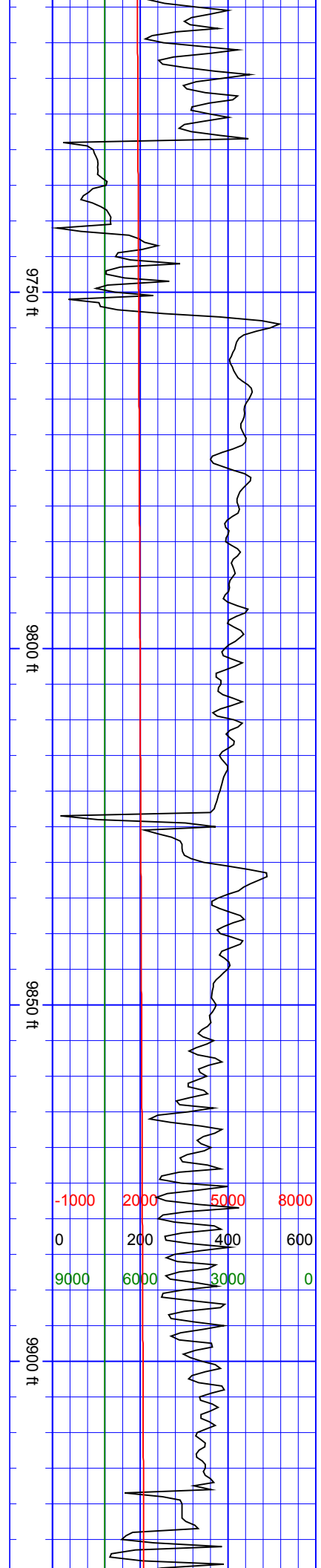


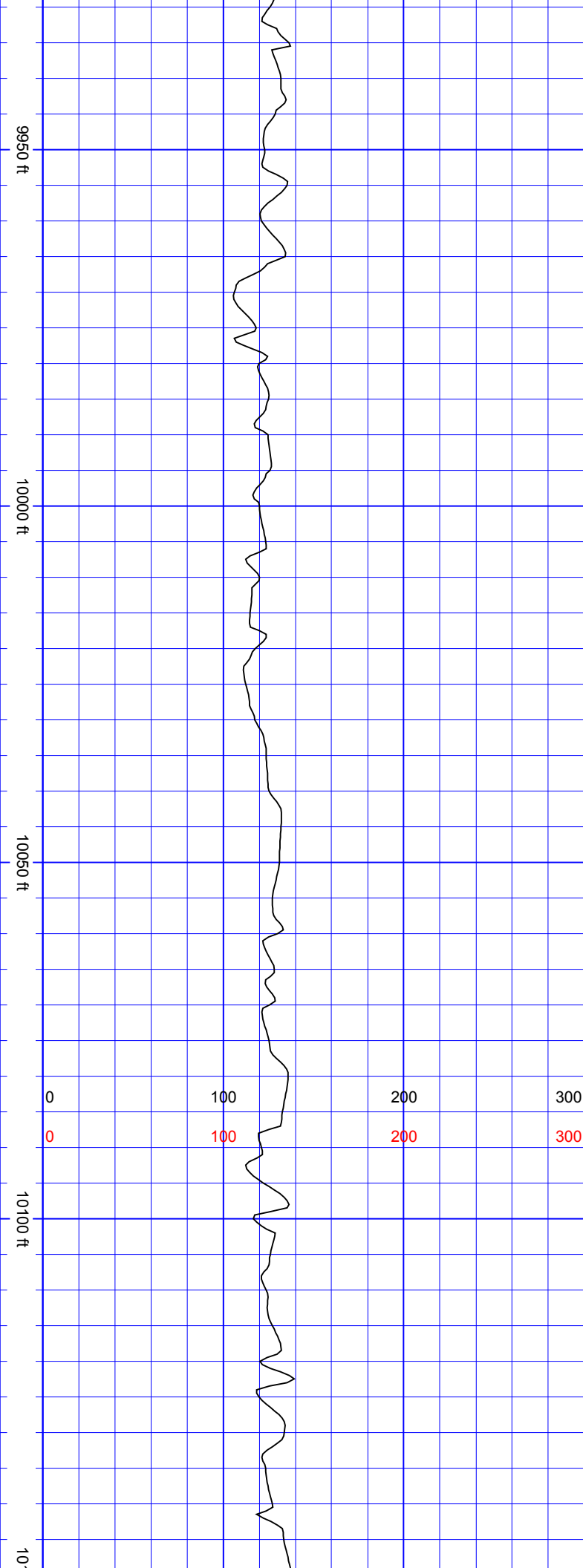


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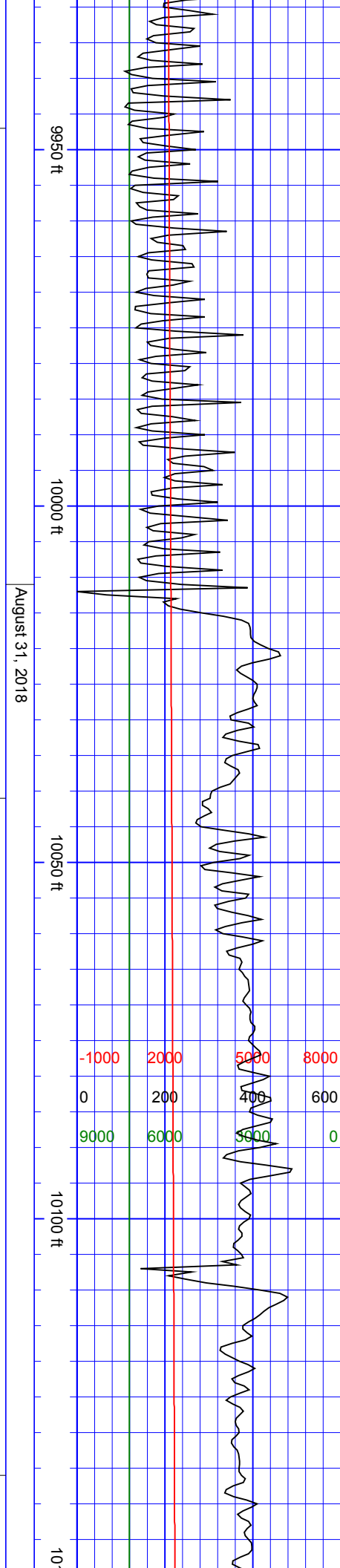
SurveyDepth:9759
TVD:7203.53 Inc:90.44
Azi:359.47
VertSec:1960.49

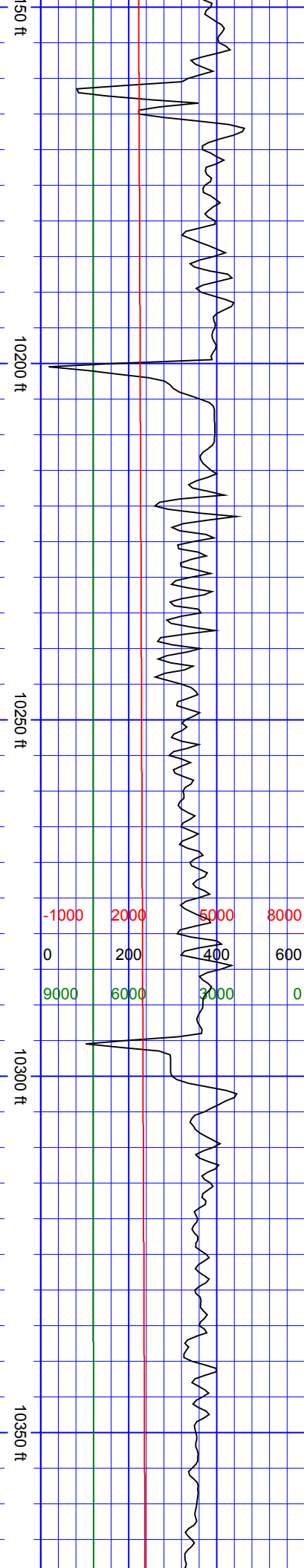
SurveyDepth:9853
TVD:7202.7 Inc:90.57
Azi:0.44
VertSec:2053.39





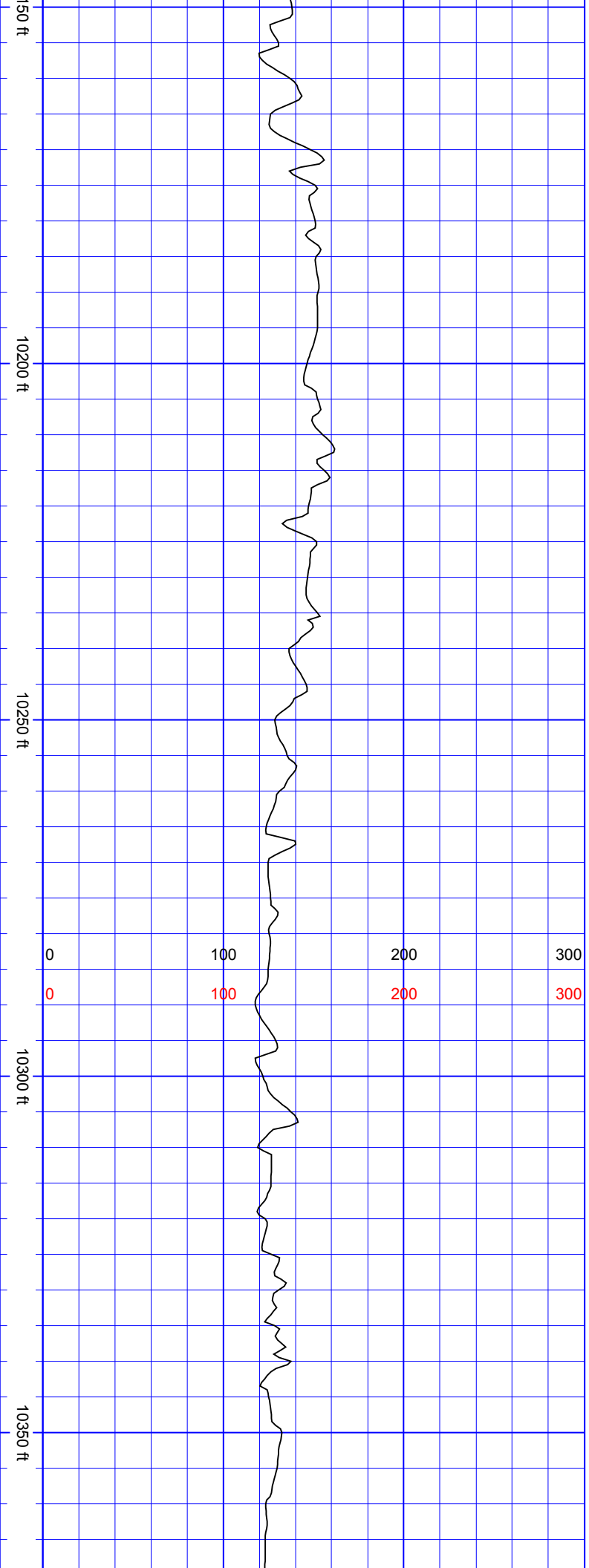
SurveyDepth:9947 TVD:7201.87 Inc:90.44 Azi:0.79 VertSec:2146.45	SurveyDepth:10041 TVD:7201.23 Inc:90.35 Azi:1.67 VertSec:2239.65	SurveyDepth:10136 TVD:7200.72 Inc:90.26 Azi:1.14 VertSec:2333.88
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SurveyDepth: 10230
TVD: 7200.4 Inc: 90.13
Azi: 0.26
VertSec: 2426.96

SurveyDepth: 10325
TVD: 7200.14 Inc: 90.18
Azi: 359.65
VertSec: 2520.86



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SurveyDepth:10420
TVD:7199.01 Inc:91.19
Azi:357.89
VertSec:2614.42

SurveyDepth:10514
TVD:7196.95 Inc:91.32
Azi:359.38
VertSec:2706.95

10400 ft

10450 ft

10500 ft

10550 ft

0 100 200 300
0 100 200 300

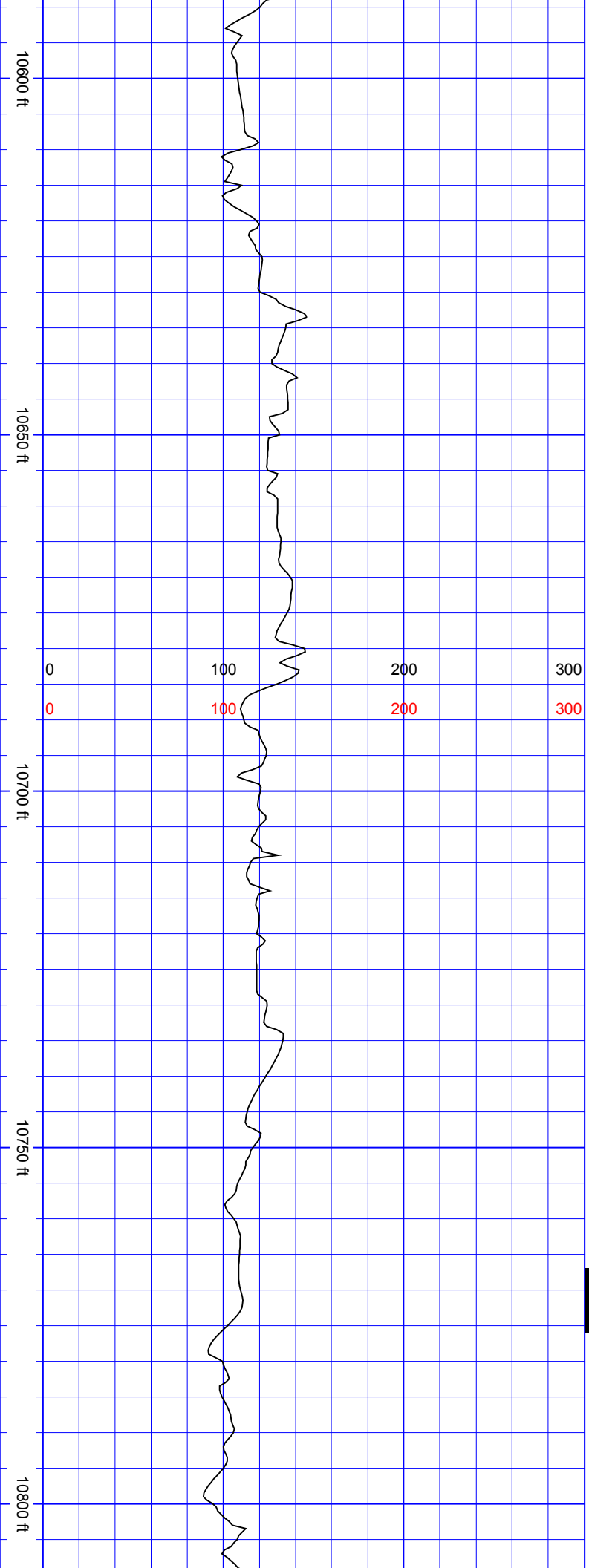
10400 ft

10450 ft

10500 ft

10550 ft

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

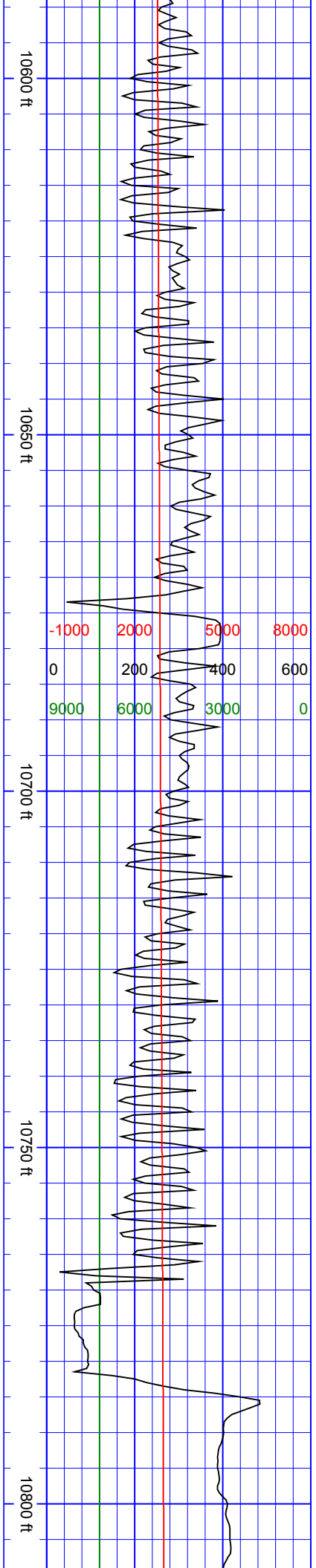


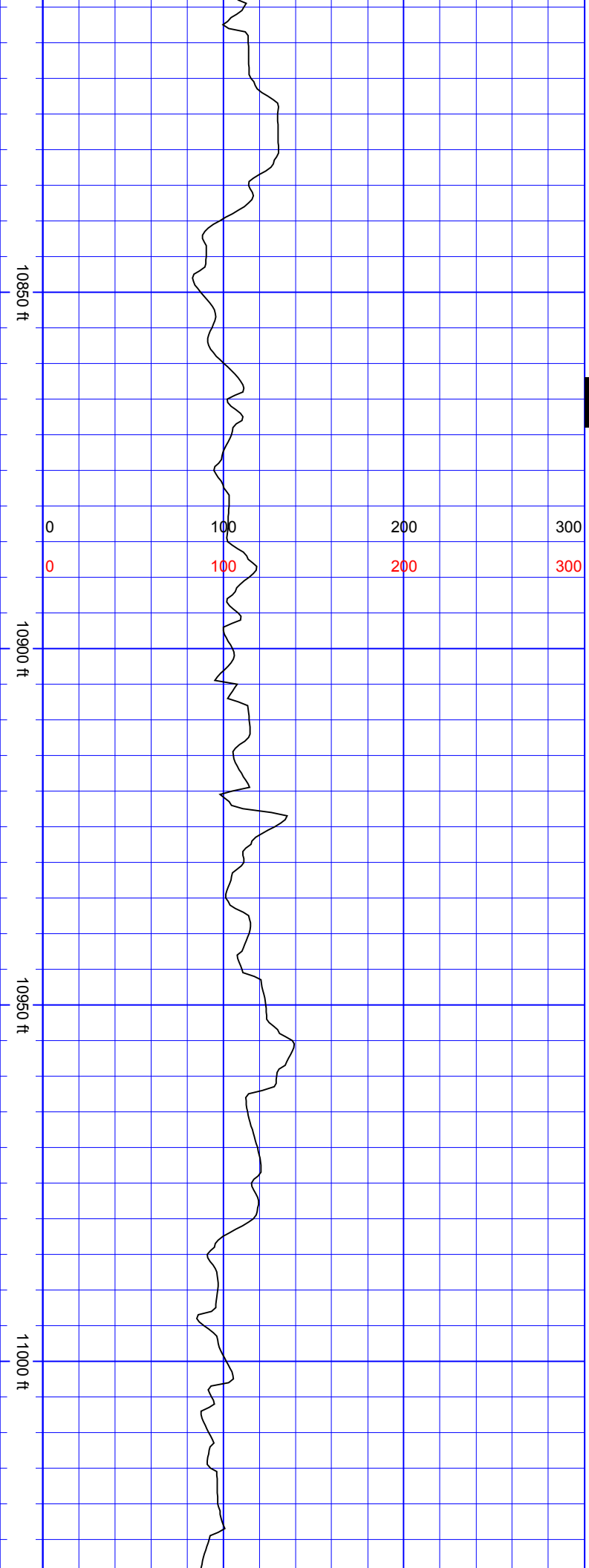
SurveyDepth:10609
TVD:7194.32 Inc:91.85
Azi:359.56
VertSec:2800.69

SurveyDepth:10703
TVD:7191.22 Inc:91.93
Azi:358.68
VertSec:2893.32

SurveyDepth:10798
TVD:7189 Inc:90.75
Azi:359.38
VertSec:2986.95

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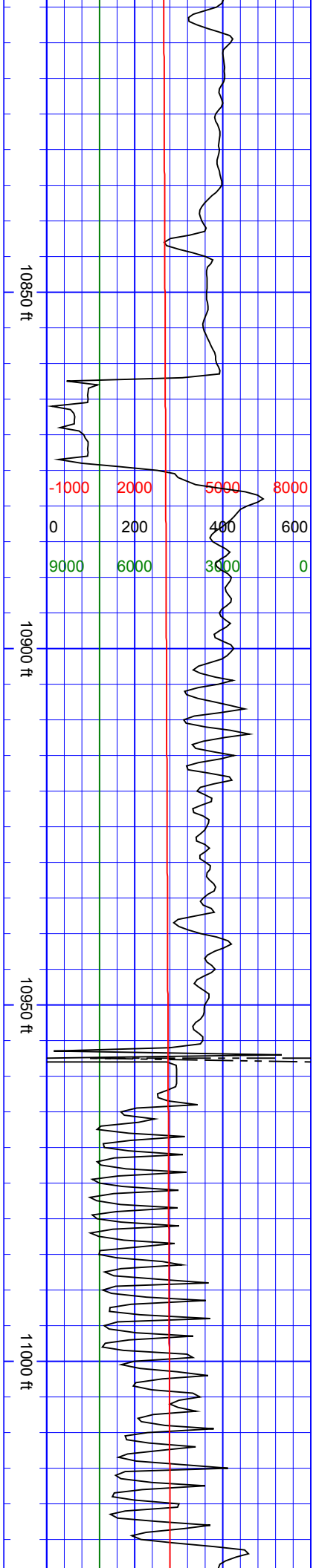


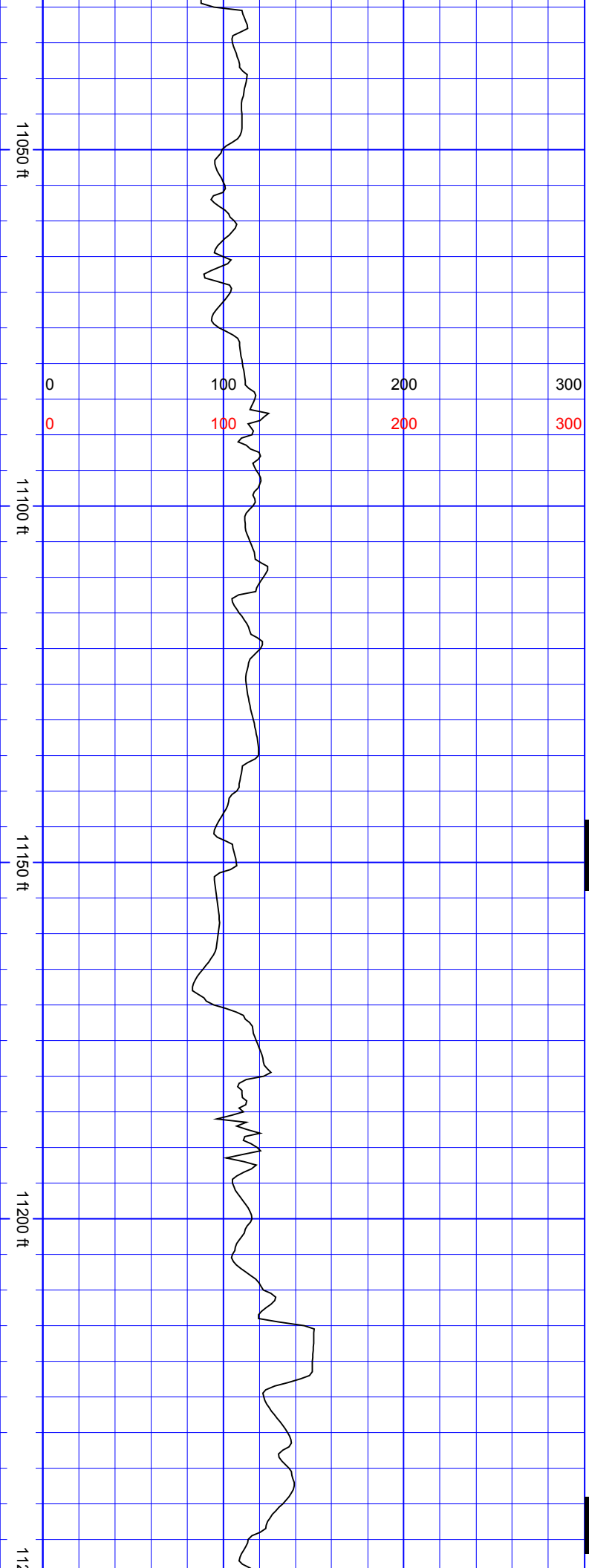


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SurveyDepth:10892
TVD:7188.64 Inc:89.69
Azi:358.94
VertSec:3079.64

SurveyDepth:10986
TVD:7188.93 Inc:89.96
Azi:359.3
VertSec:3172.33



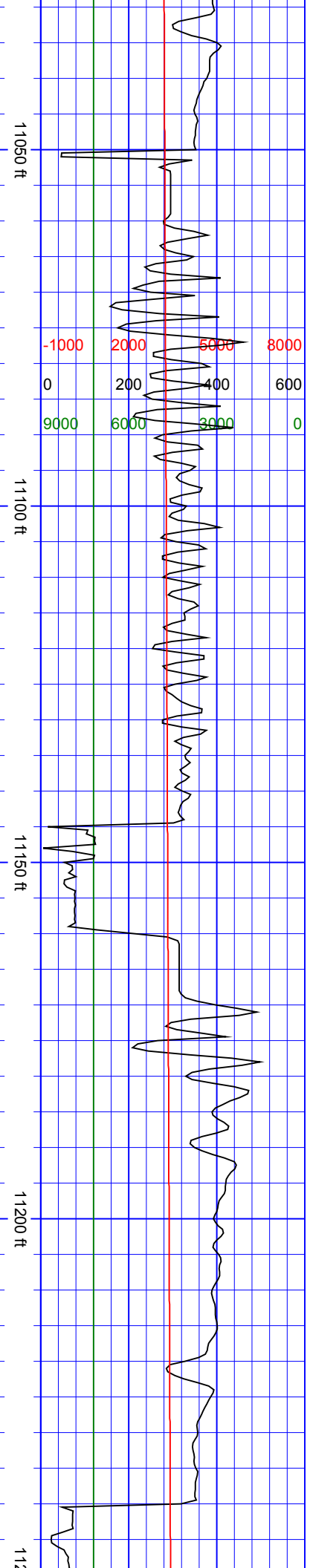


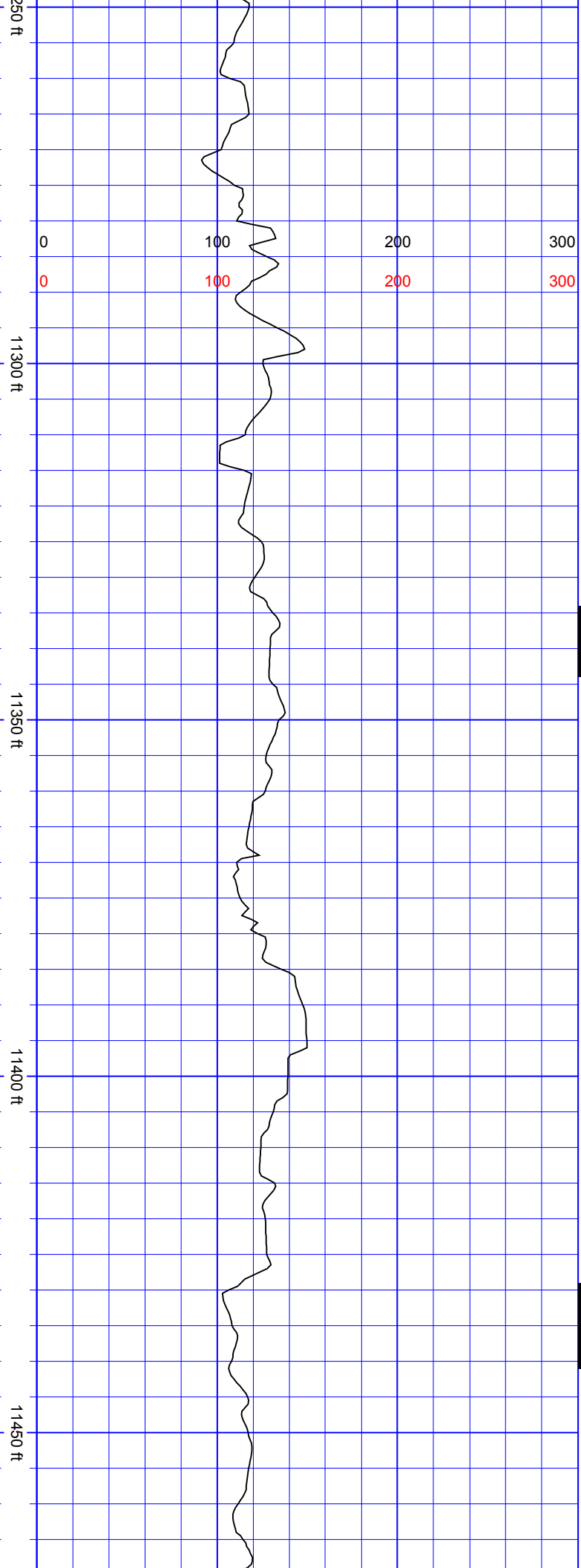
SurveyDepth:11080
TVD:7188.99 Inc:89.96
Azi:357.98
VertSec:3264.88

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SurveyDepth:11175
TVD:7188.95 Inc:90.09
Azi:359.12
VertSec:3358.4

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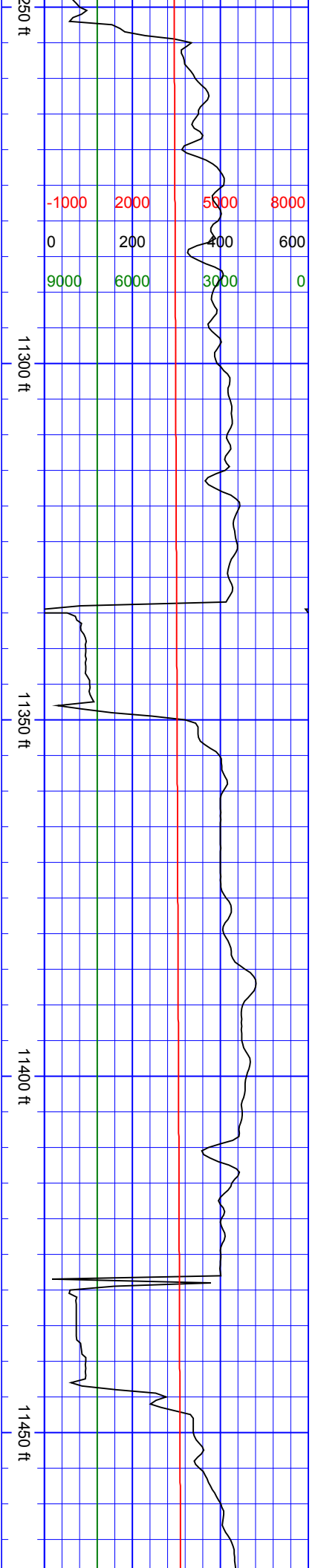


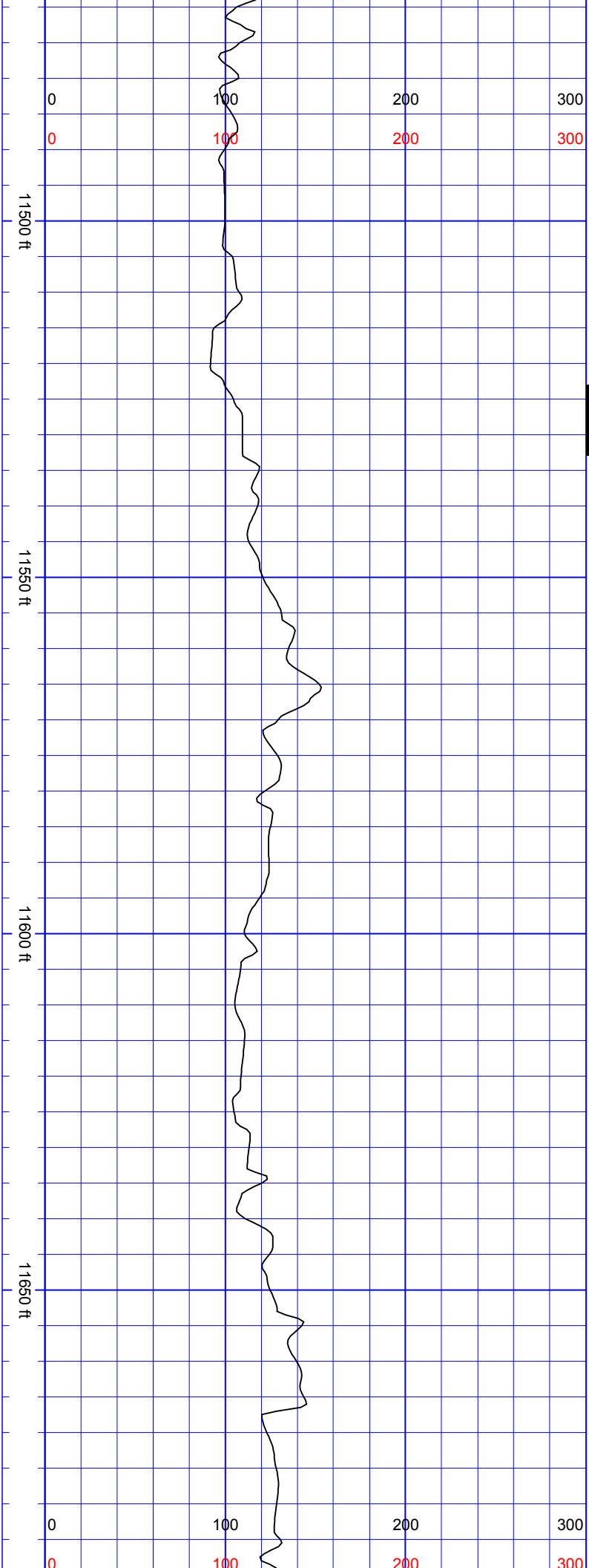


SurveyDepth:11270
TVD:7189.24 Inc:89.56
Azi:0.09 VertSec:3452.2

SurveyDepth:11364
TVD:7190.32 Inc:89.12
Azi:0.88
VertSec:3545.23

SurveyDepth:11458
TVD:7190.5 Inc:90.66
Azi:0.88
VertSec:3638.35

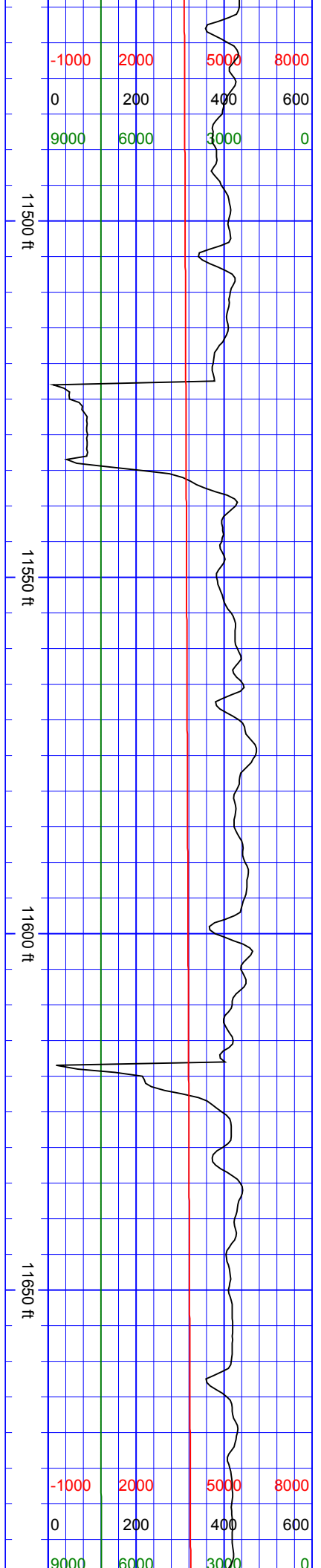


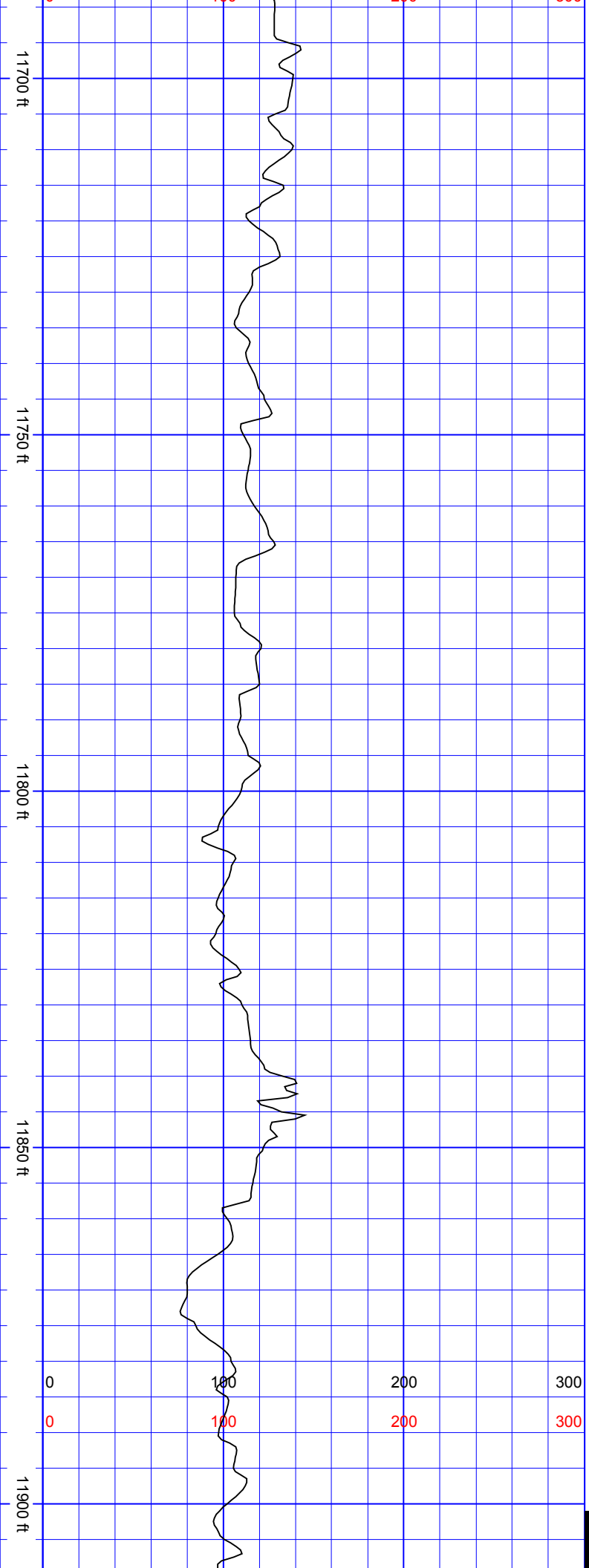


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SurveyDepth:11553
TVD:7188.28 Inc:92.02
Azi:1.49
VertSec:3732.51

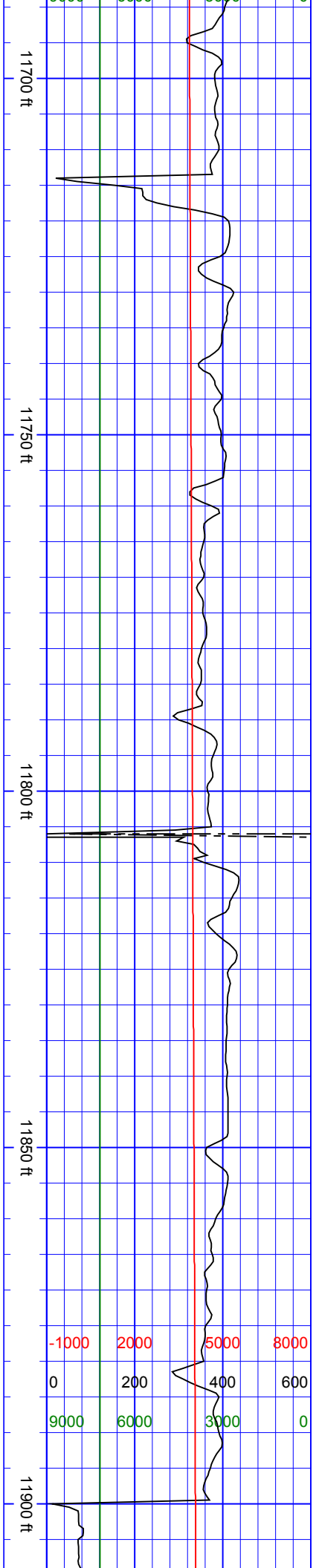
SurveyDepth:11647
TVD:7184.93 Inc:92.07
Azi:2.81
VertSec:3825.83





SurveyDepth:11741
TVD:7181.53 Inc:92.07
Azi:1.67
VertSec:3919.17

SurveyDepth:11835
TVD:7177.82 Inc:92.46
Azi:1.76 VertSec:4012.4



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SurveyDepth:11930
TVD:7175.05 Inc:90.88
Azi:359.74
VertSec:4106.44

SurveyDepth:12024
TVD:7173.68 Inc:90.79
Azi:1.14
VertSec:4199.45

SurveyDepth:12118
TVD:7172.34 Inc:90.84
Azi:0.88 VertSec:4292.6

11950 ft

12000 ft

12050 ft

12100 ft

0 100 200 300
0 100 200 300

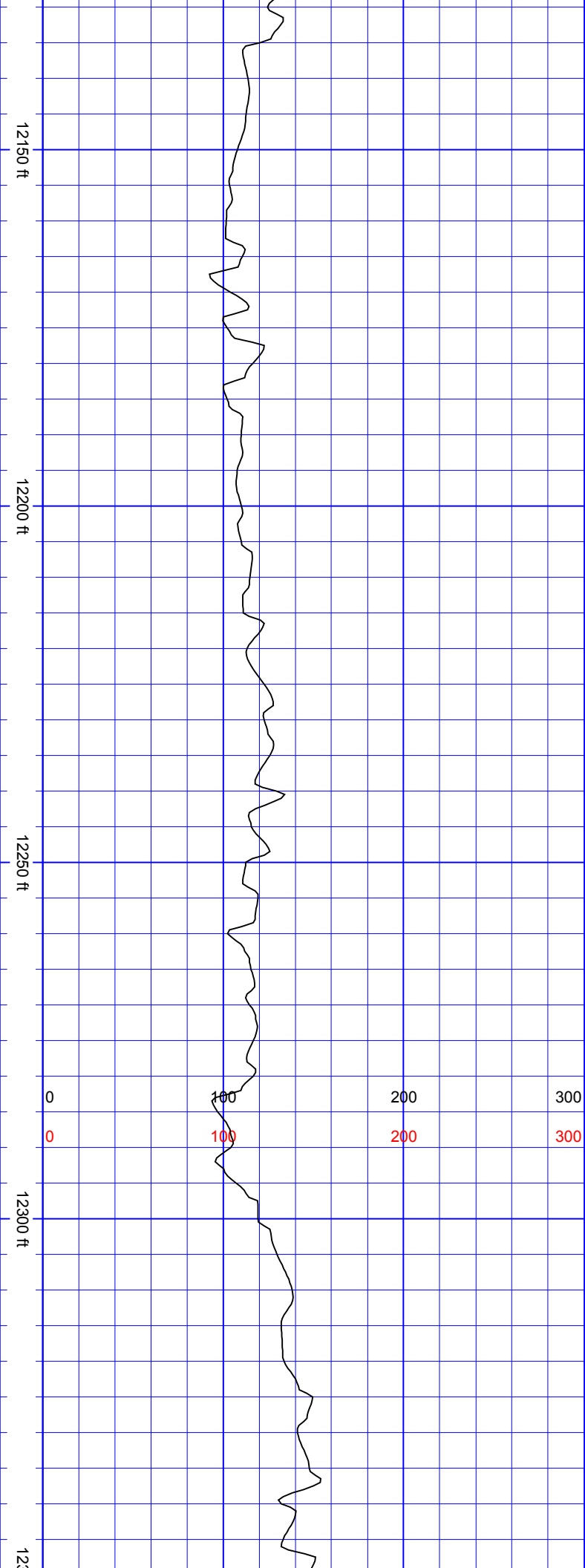
11950 ft

12000 ft

12050 ft

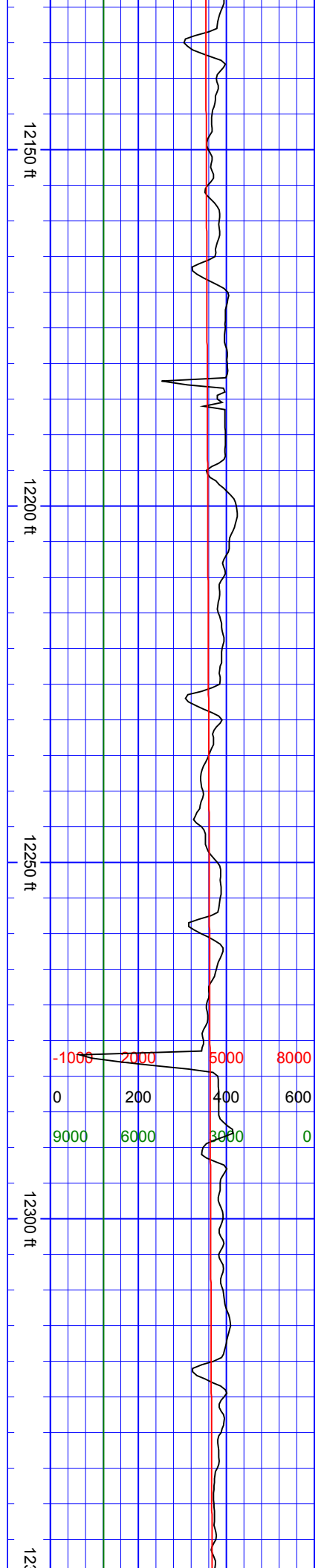
12100 ft

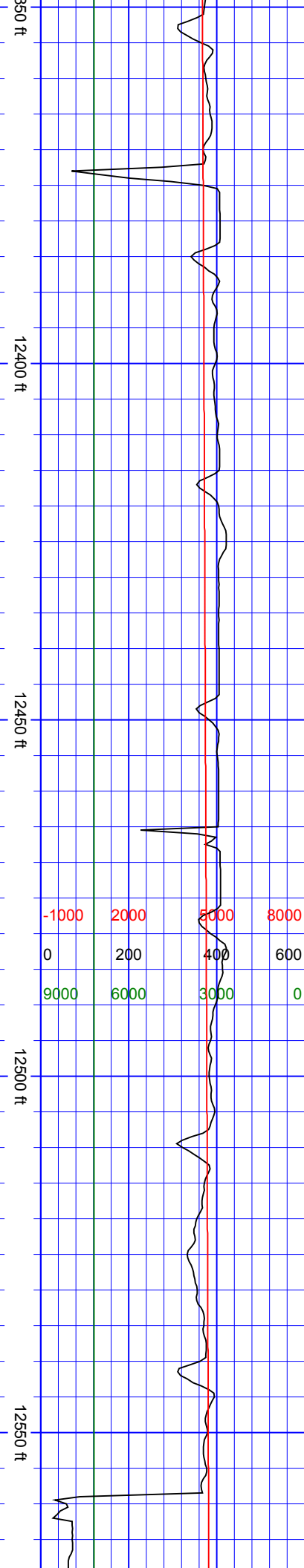
-1000 2000 5000 8000
0 200 400 600
9000 6000 3000 0



SurveyDepth:12212
TVD:7171.08 Inc:90.7
Azi:359.56
VertSec:4385.56

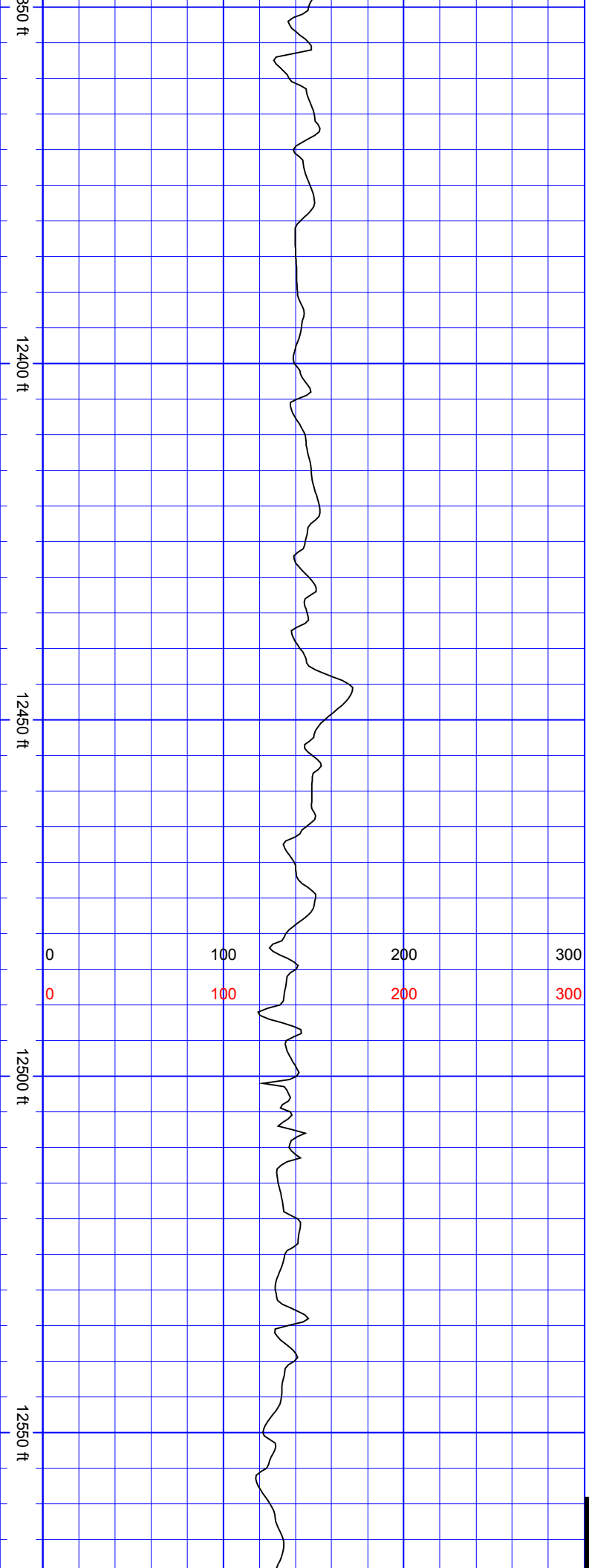
SurveyDepth:12306
TVD:7170.18 Inc:90.4
Azi:1.05
VertSec:4478.55

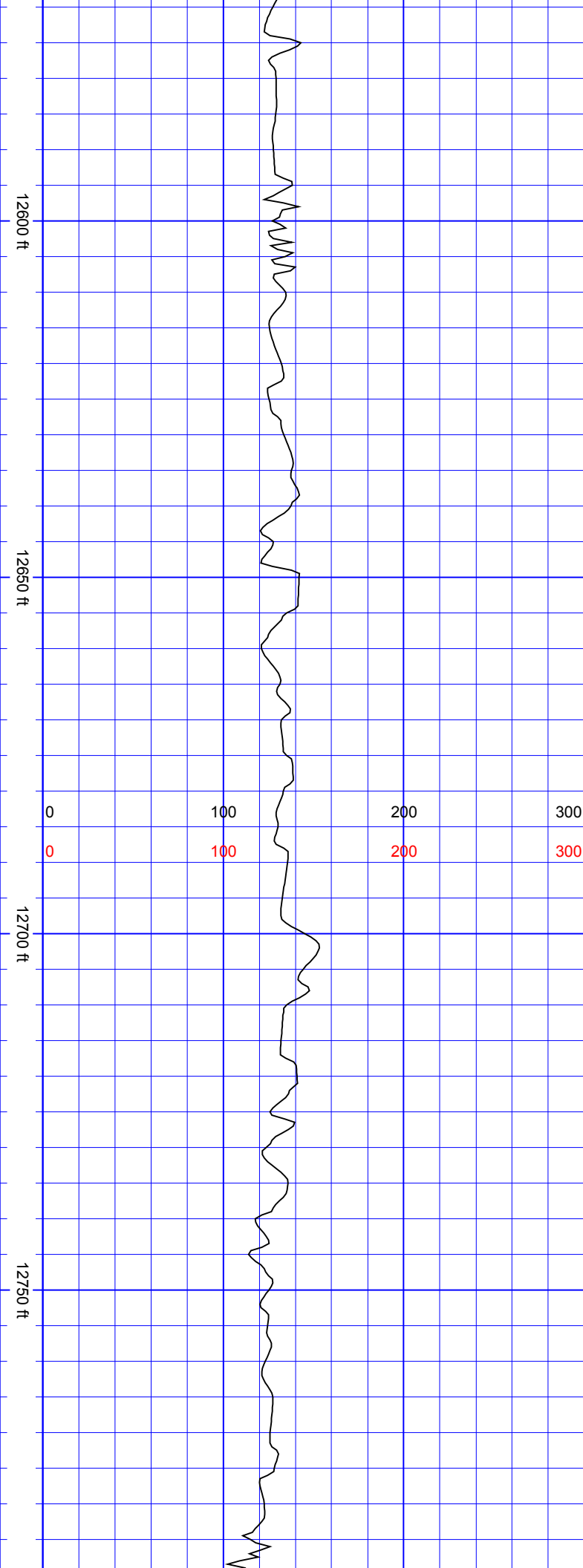




SurveyDepth:12401
TVD:7169.69 Inc:90.18
Azi:0.44
VertSec:4572.63

SurveyDepth:12495
TVD:7169.76 Inc:89.74
Azi:359.65
VertSec:4665.56

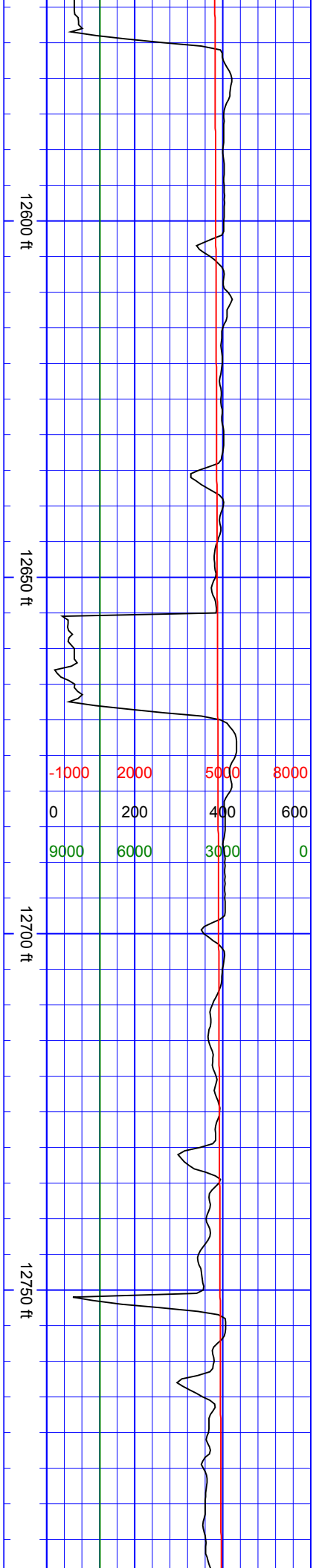


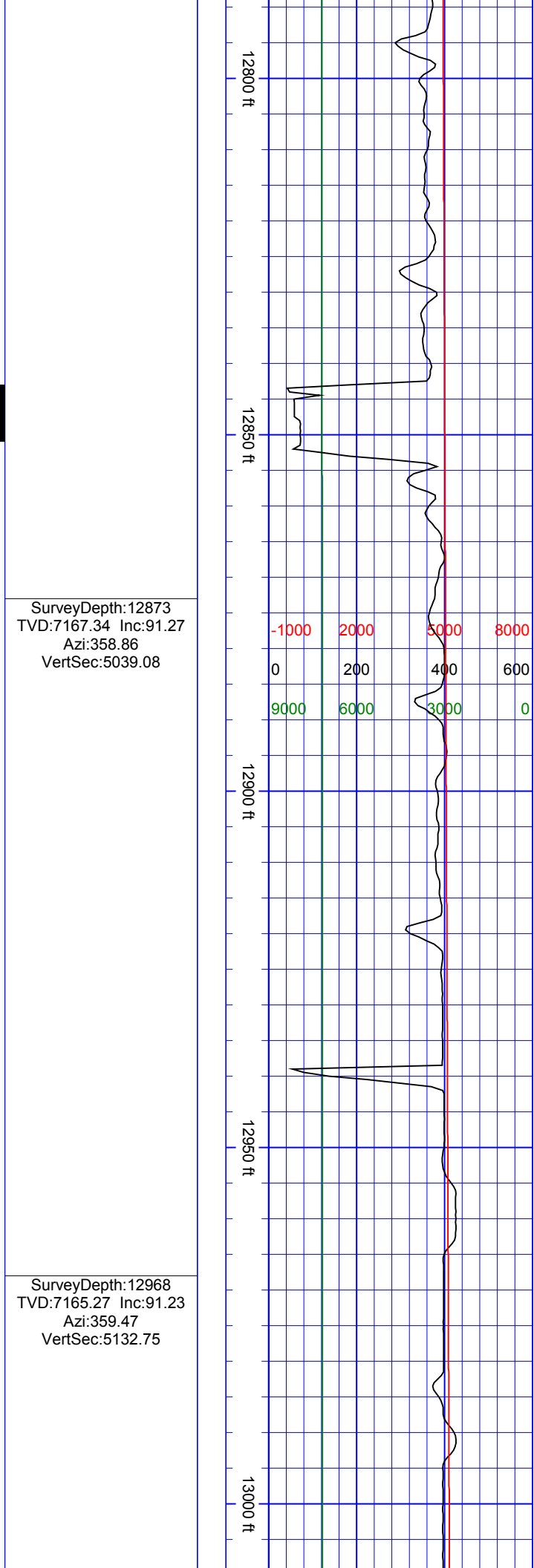
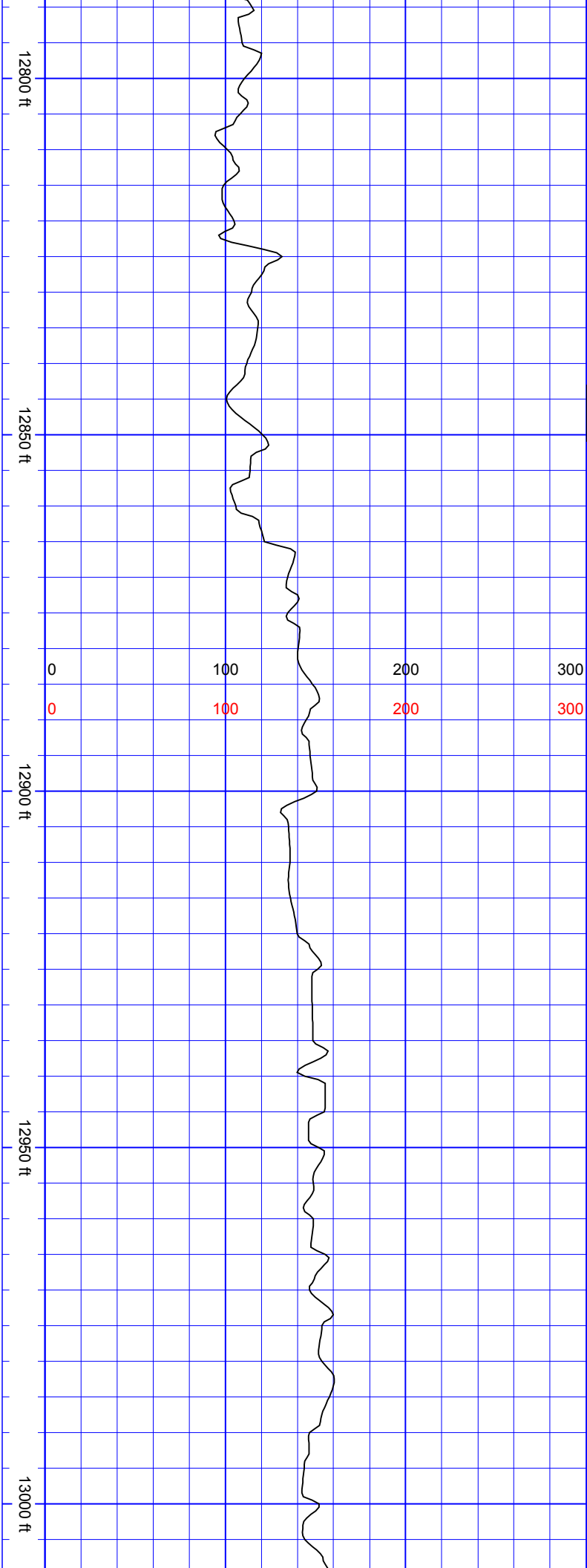


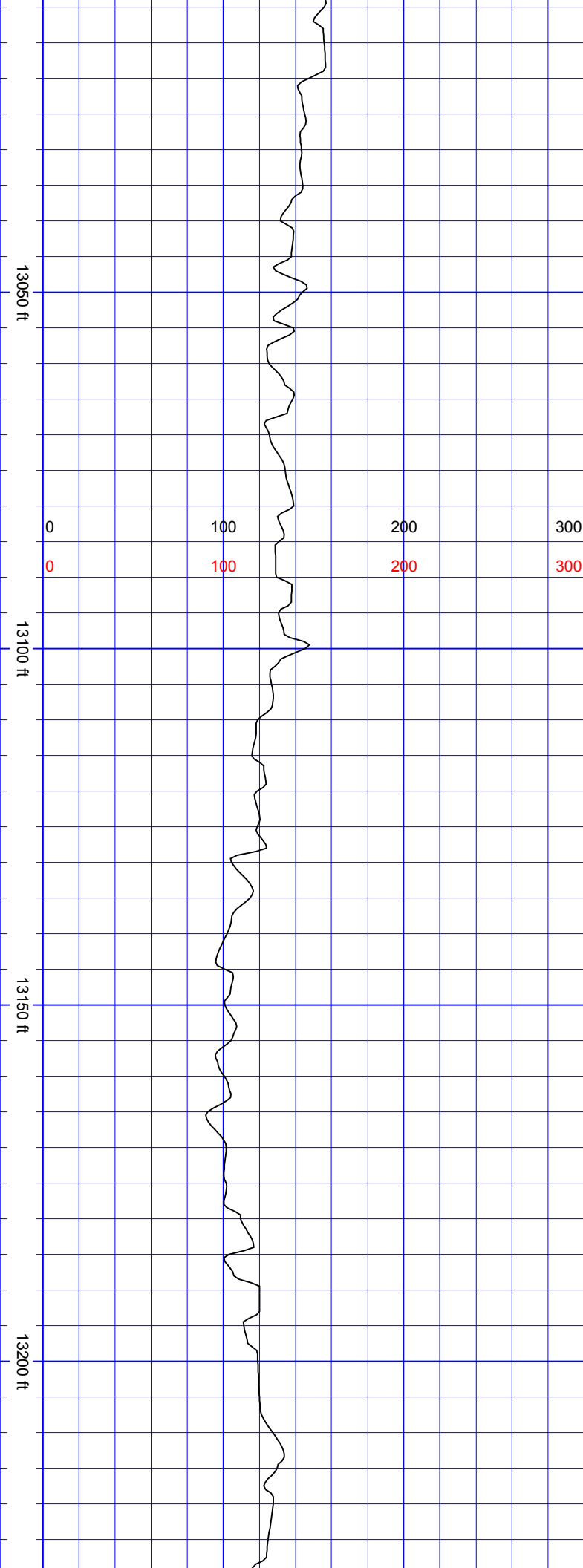
SurveyDepth:12589
TVD:7170.12 Inc:89.82
Azi:358.68
VertSec:4758.26

SurveyDepth:12684
TVD:7169.51 Inc:90.92
Azi:1.05
VertSec:4852.12

SurveyDepth:12779
TVD:7168.56 Inc:90.22
Azi:0.7 VertSec:4946.23

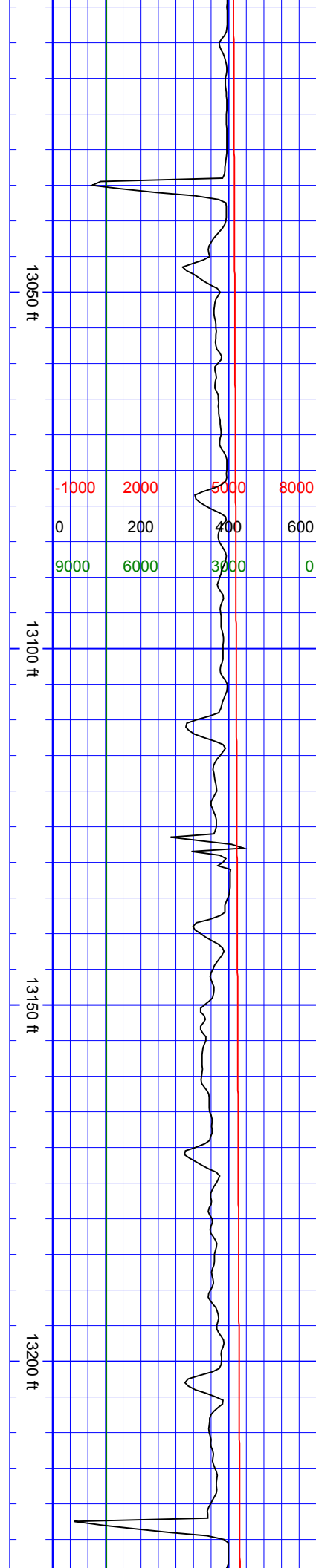


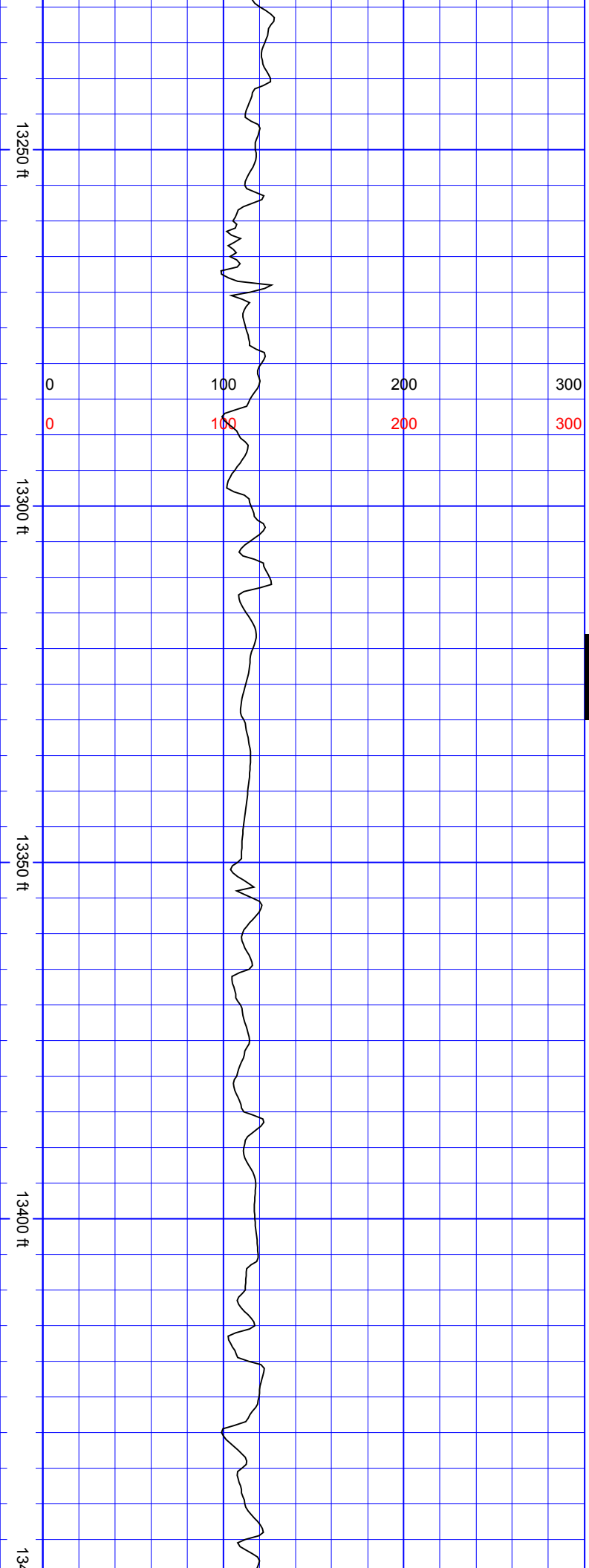




SurveyDepth:13062
TVD:7163.39 Inc:91.06
Azi:359.74
VertSec:5225.55

SurveyDepth:13156
TVD:7161.83 Inc:90.84
Azi:359.74
VertSec:5318.39



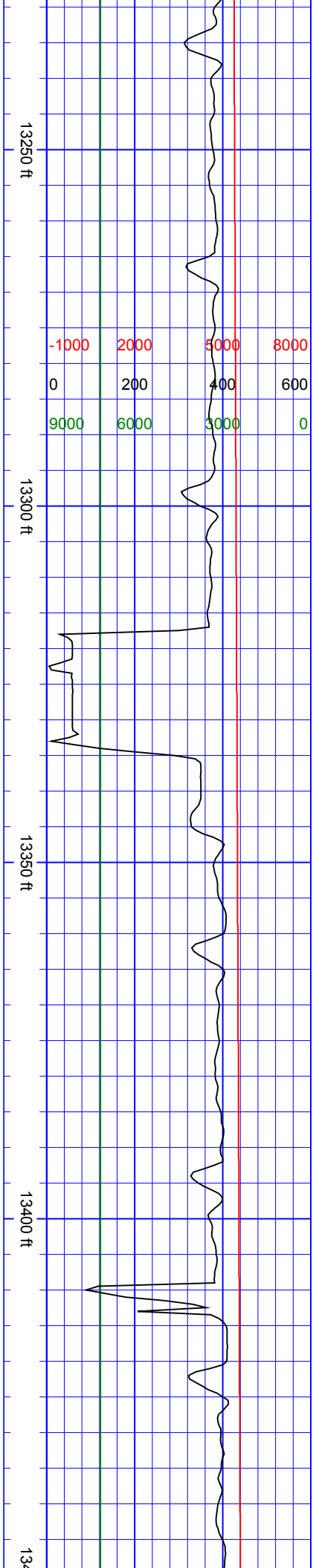


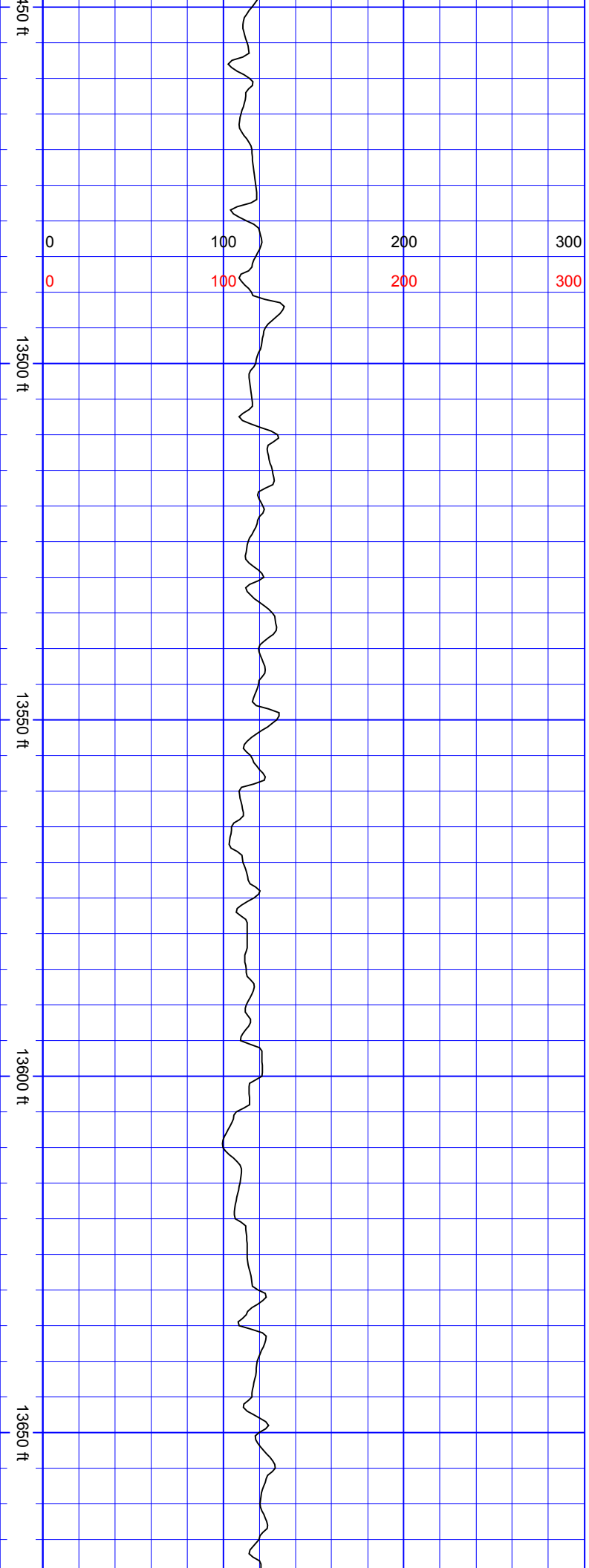
SurveyDepth:13251
TVD:7160.55 Inc:90.7
Azi:0.88
VertSec:5412.36

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SurveyDepth:13345
TVD:7160.13 Inc:89.82
Azi:358.15
VertSec:5505.14

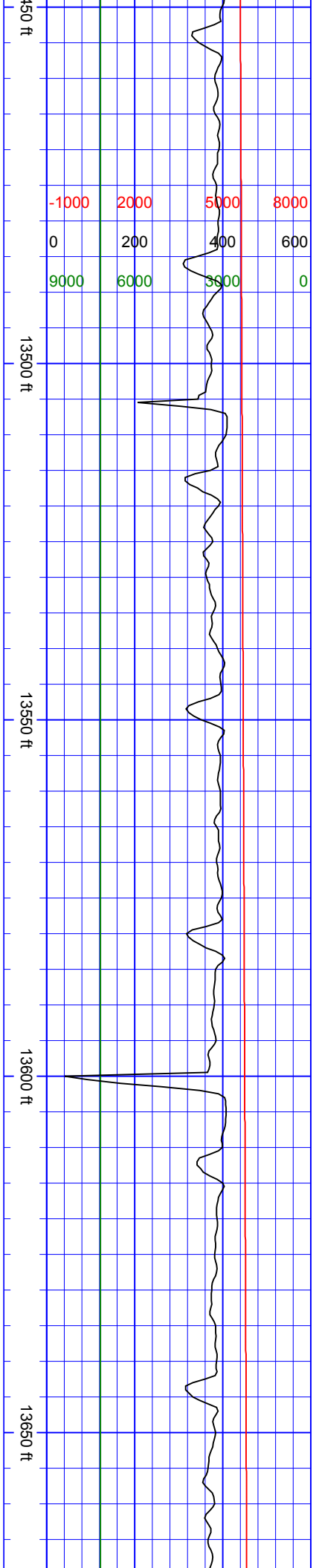
SurveyDepth:13439
TVD:7160.13 Inc:90.18
Azi:359.21
VertSec:5597.71

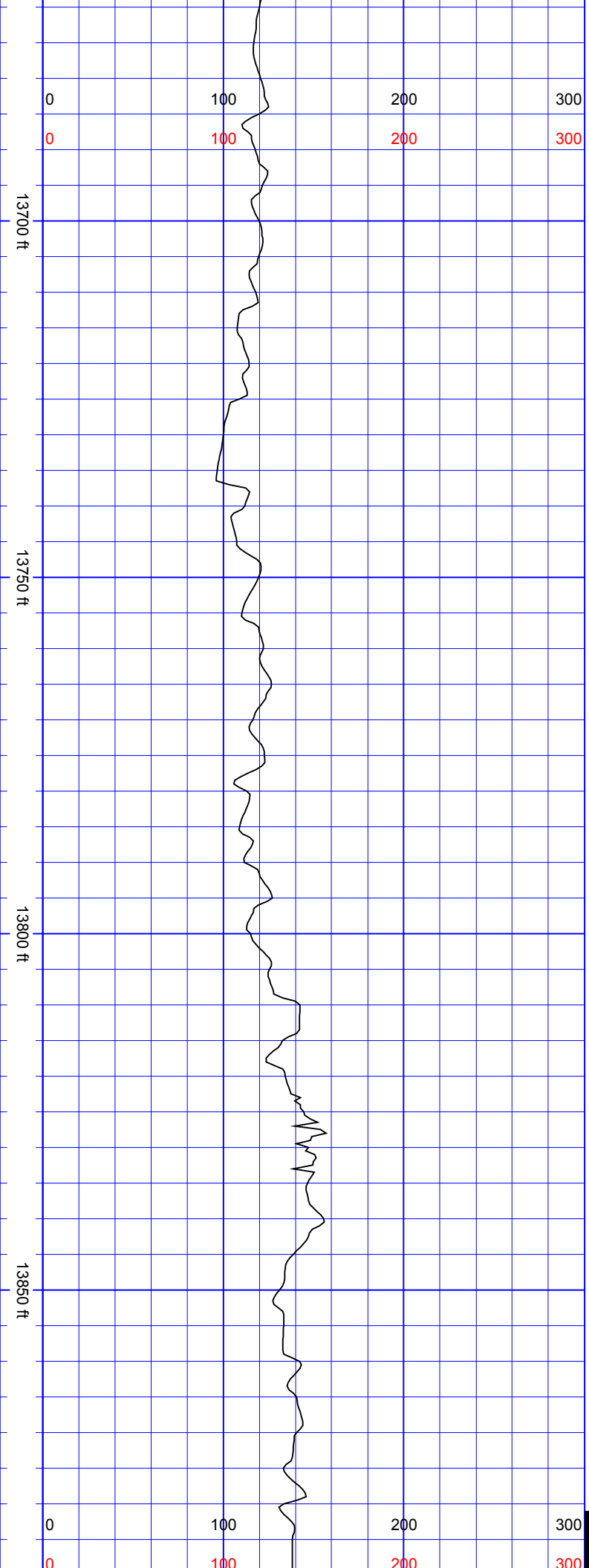




SurveyDepth:13534
TVD:7159.95 Inc:90.04
Azi:358.42
VertSec:5691.3

SurveyDepth:13628
TVD:7159.99 Inc:89.91
Azi:358.33
VertSec:5783.77

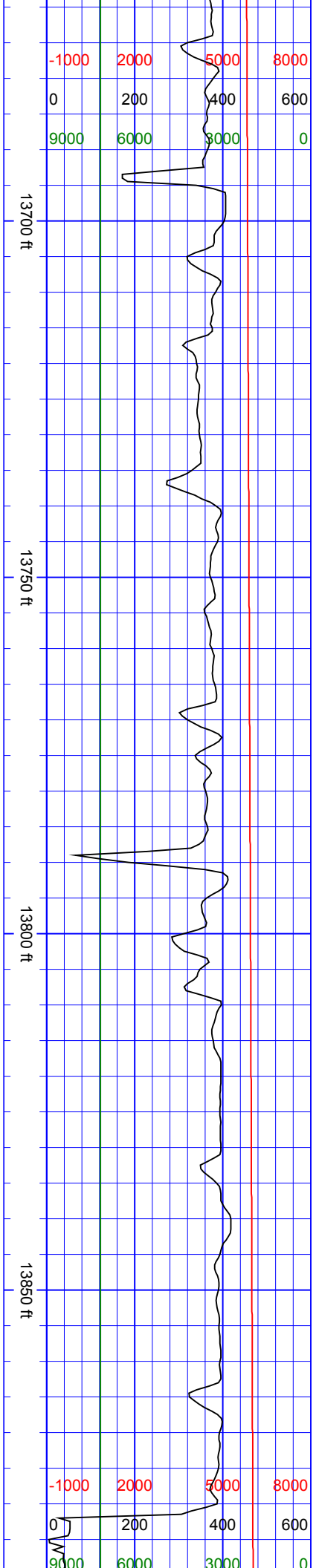


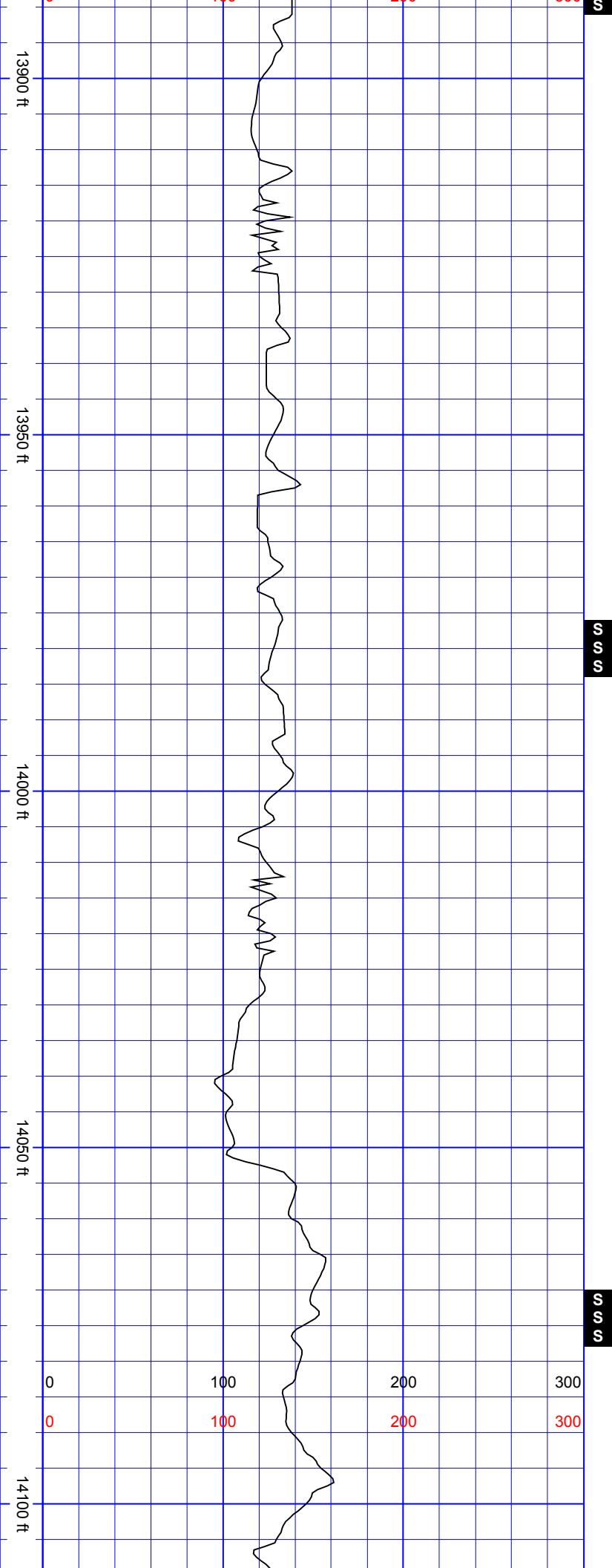


SurveyDepth:13723
TVD:7160.09 Inc:89.96
Azi:358.42
VertSec:5877.24

SurveyDepth:13817
TVD:7160.38 Inc:89.69
Azi:357.36
VertSec:5969.57

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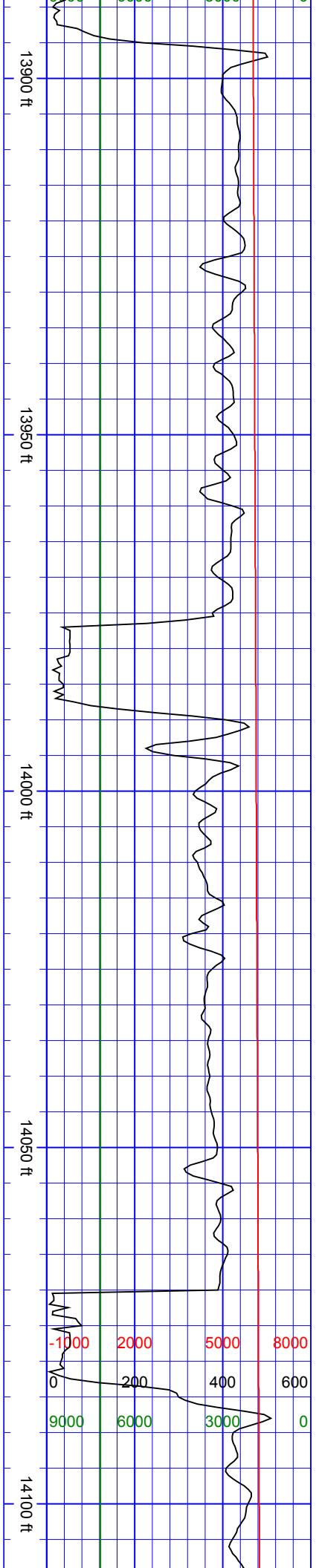


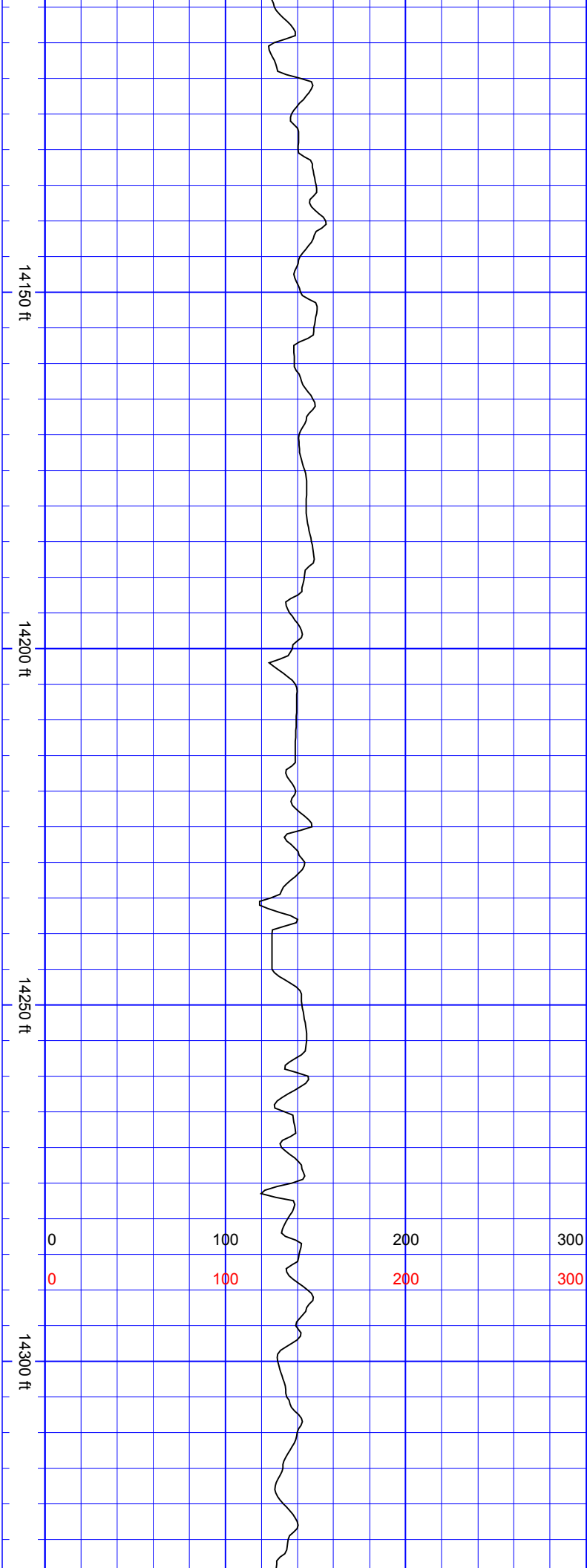


SurveyDepth:13912
TVD:7159.73 Inc:91.1
Azi:358.77
VertSec:6062.93

SurveyDepth:14006
TVD:7158.82 Inc:90
Azi:359.12
VertSec:6155.56

SurveyDepth:14101
TVD:7159.04 Inc:89.74
Azi:1.58

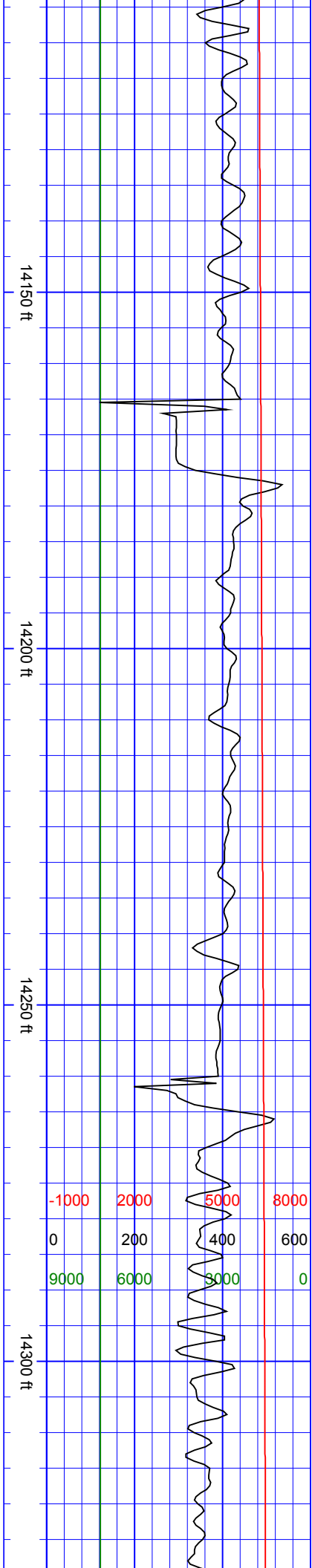


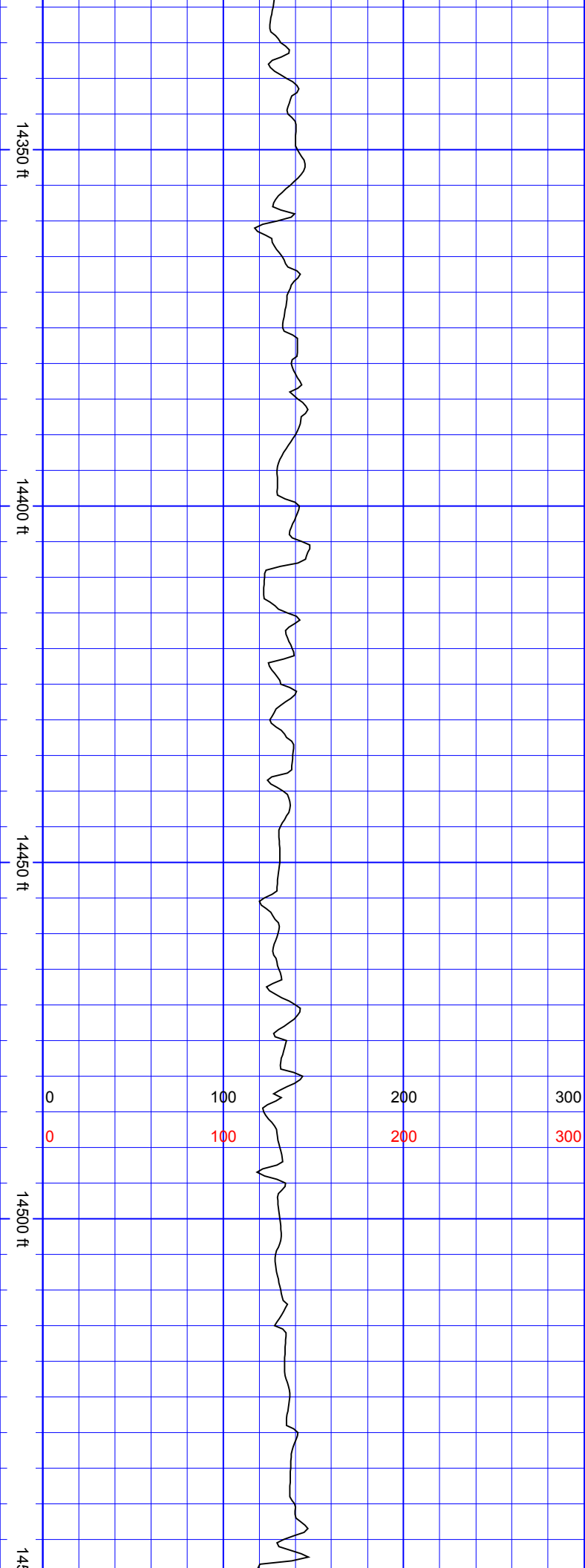


VertSec:6249.55

SurveyDepth:14196
TVD:7159.33 Inc:89.91
Azi:359.65
VertSec:6343.6

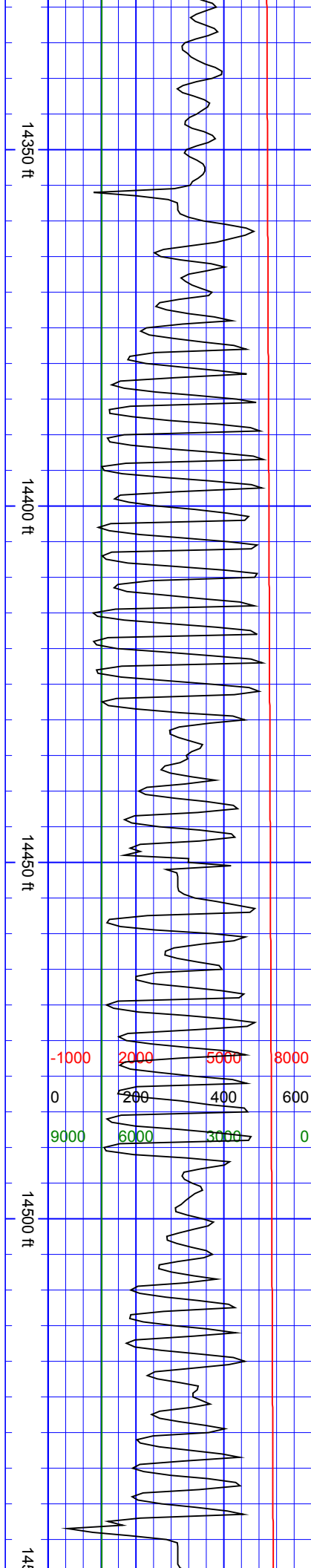
SurveyDepth:14291
TVD:7159.91 Inc:89.39
Azi:1.05
VertSec:6437.59

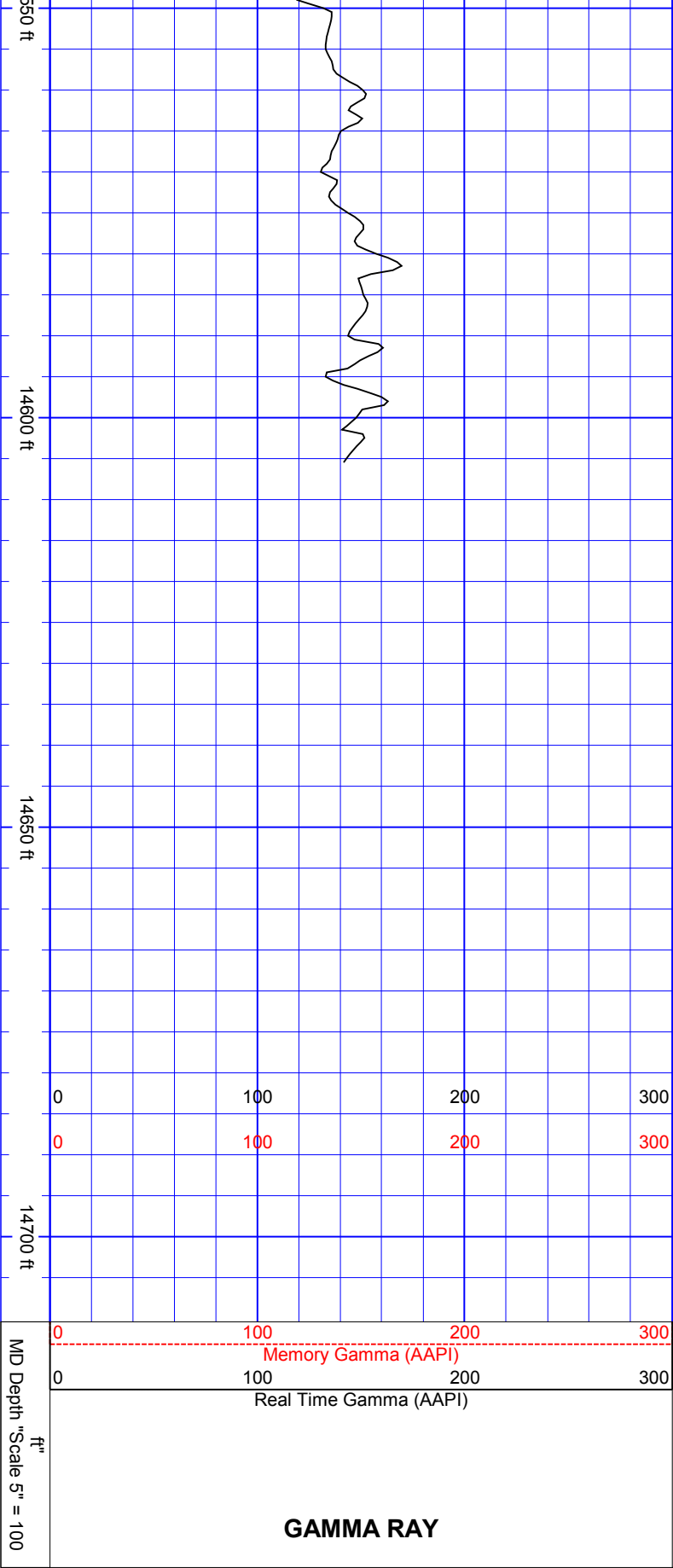




SurveyDepth:14385
TVD:7161.03 Inc:89.25
Azi:359.56
VertSec:6530.57

SurveyDepth:14479
TVD:7162.4 Inc:89.08
Azi:1.76
VertSec:6623.63





SurveyDepth:14573
TVD:7164.16 Inc:88.77
Azi:359.74
VertSec:6716.71

SurveyDepth:14601
TVD:7164.78 Inc:88.68
Azi:1.49
VertSec:6744.42

Extrapolation To Bit
SurveyDepth:14665
TVD:7166.26 Inc:88.68
Azi:1.49 VertSec:6807.9

Directional Survey

