



Build & Lateral

16191026

MD

Well Site Information

Crestone Peak Resources

S4-T2N-R66W

DAVIS 1H-9H-G266

05-123-46512-00

DJ BASIN

80

USA

Surface Coordinates

Horizontal

40° 9' 16 N

104° 46' 40 W

1,299,945.05 us/ft

3,201,850.30 us/ft

True North

0.47°

MWD Engineers

Bob Stahlecker

Chad Vallad

Elevation

$$KB = 4,940.00 \text{ ft}$$

End

End Depth

Bore Hole Record

To

00 ft	2,203.00 ft
-------	-------------

3.00 ft	14,650.00 ft
---------	--------------

--	--

--	--

Casing Record

From

2,203.00 +

14,650.00

--	--

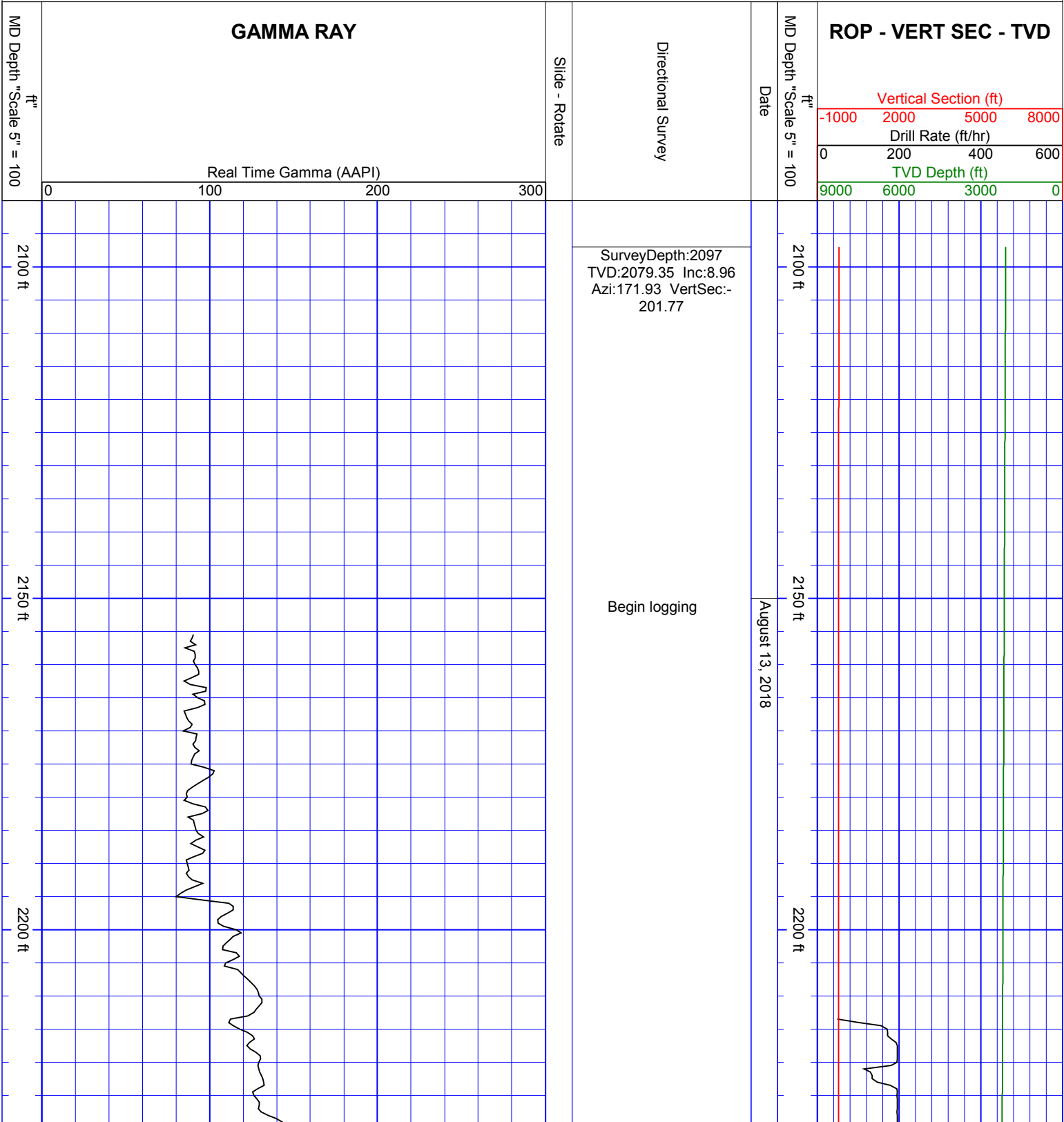
--	--

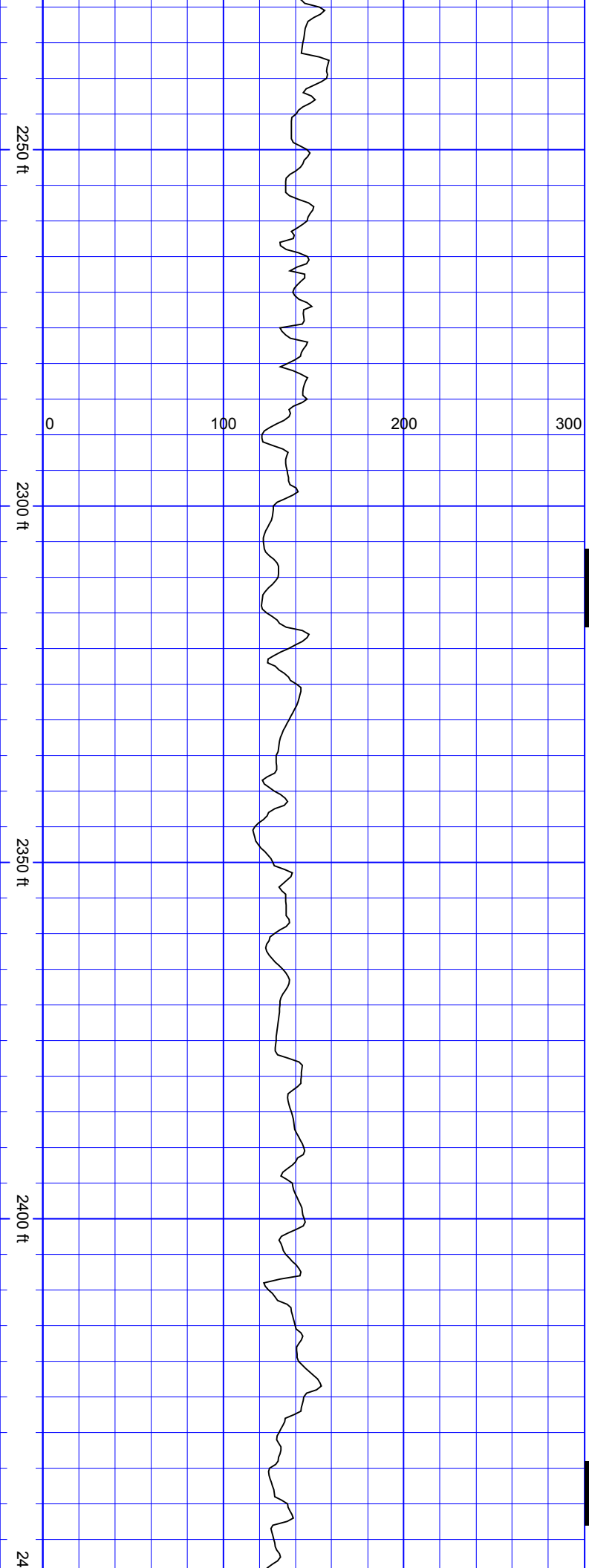
Run Data

Run Data					
Bit Run Number	1	2			
Start Date & Time	Aug/13/2018 17:00:00	Aug/15/2018 22:00:00			
End Date & Time	Aug/15/2018 18:30:00	Aug/18/2018 01:00:00			
Run Hours	49.50	51.00			
Depth In	2,203.00 ft	8,501.00 ft			
Depth Out	8,501.00 ft	14,650.00 ft			
Total Gamma Correction	5.66	5.71			
Gamma to Bit	58.71 ft	55.31 ft			
Resistivity to Bit	-	-			
Mud Type	Oil Base	Oil Base			
Density	10.10 ppg	9.90 ppg			
Viscosity	49.00 sec/qt	48.00 sec/qt			
PH	-	-			
Fluid Loss	-	-			
K+ ppm	-	-			
CL- ppm	250,324.00 ppm	250,324.00 ppm			
Max Mud Temp	206.00 °F	253.00 °F			
Mud Report Depth	8,501.00 ft	10,743.00 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.





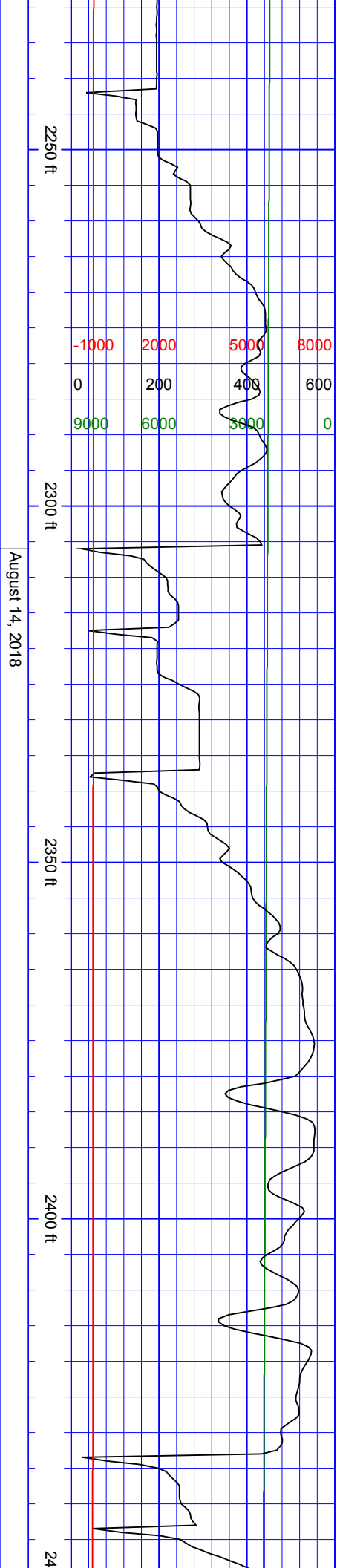
SSS

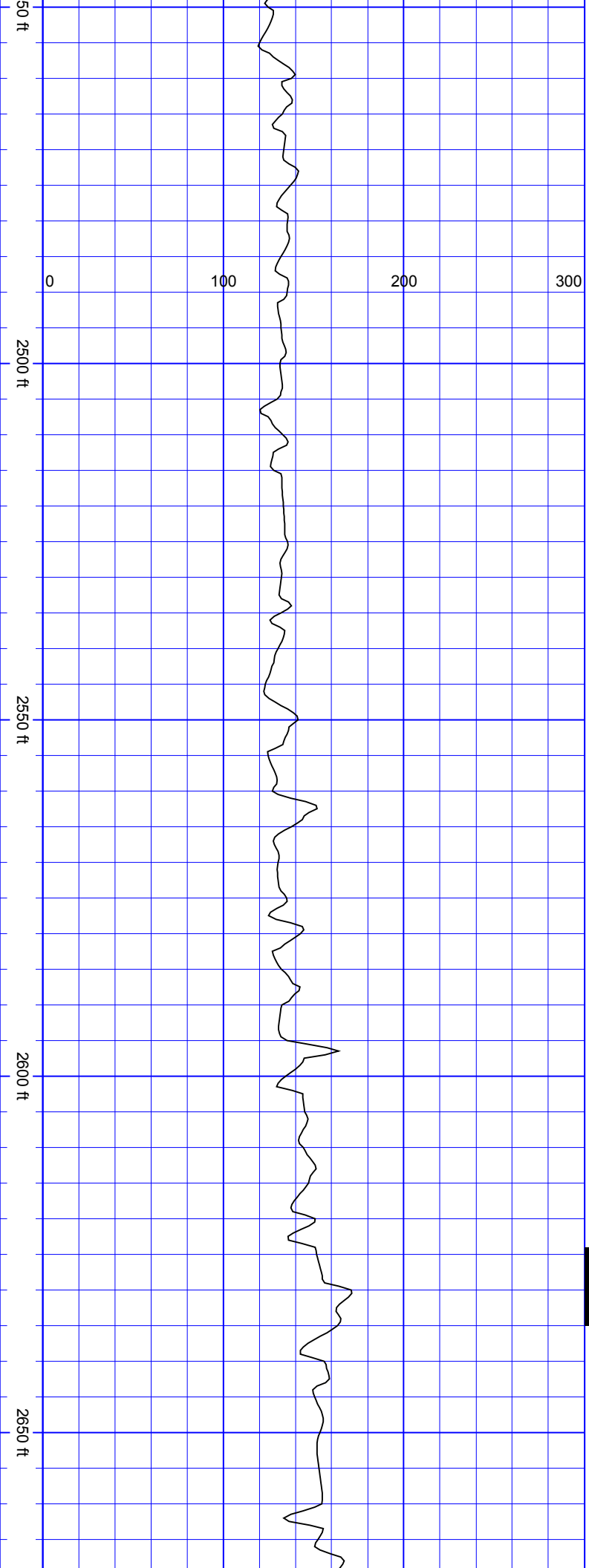
SSS

SurveyDepth:2241
TVD:2221.69 Inc:8.44
Azi:169.54 VertSec:-223.2

SurveyDepth:2273
TVD:2253.36 Inc:8.17
Azi:169.54 VertSec:-227.73

SurveyDepth:2367
TVD:2346.19 Inc:9.89
Azi:166.73 VertSec:-242.09

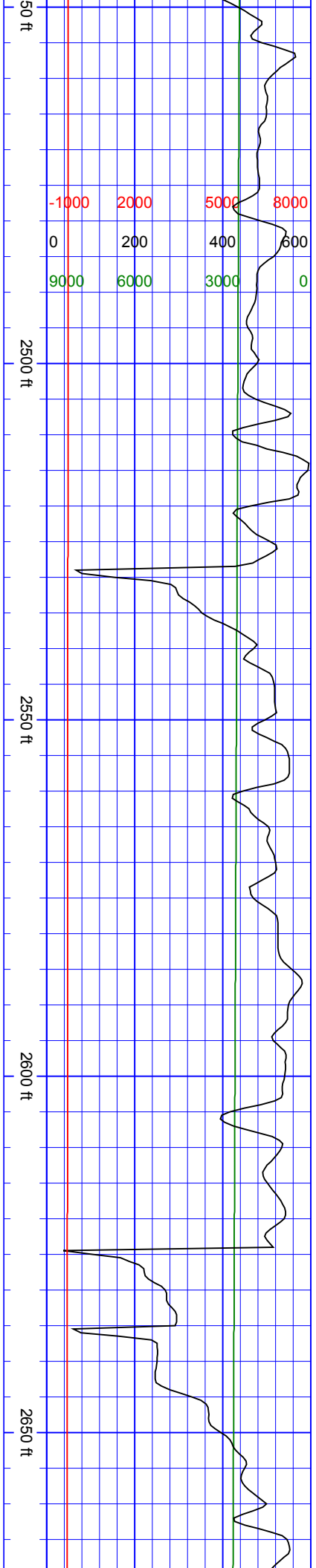
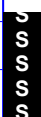


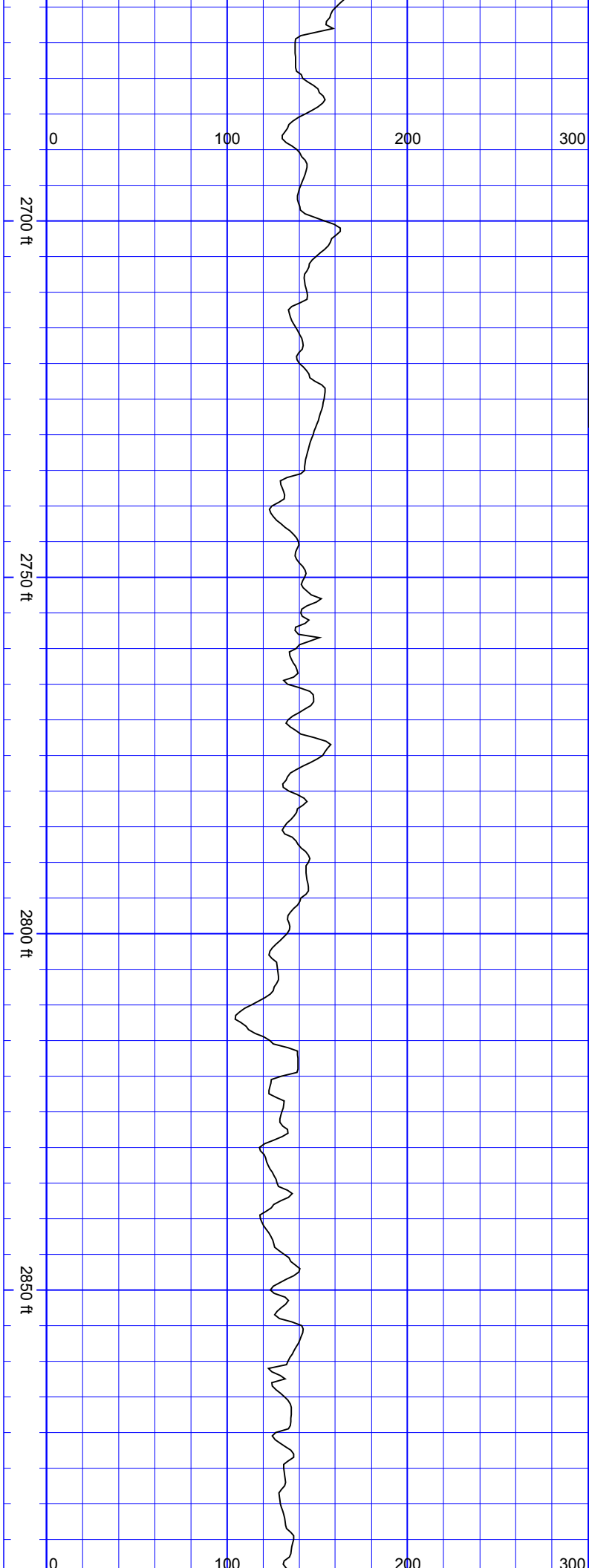


SurveyDepth:2462
TVD:2439.66 Inc:10.72
Azi:172.79 VertSec:-
258.74

SurveyDepth:2556
TVD:2532.15 Inc:9.84
Azi:172.09 VertSec:-
275.32

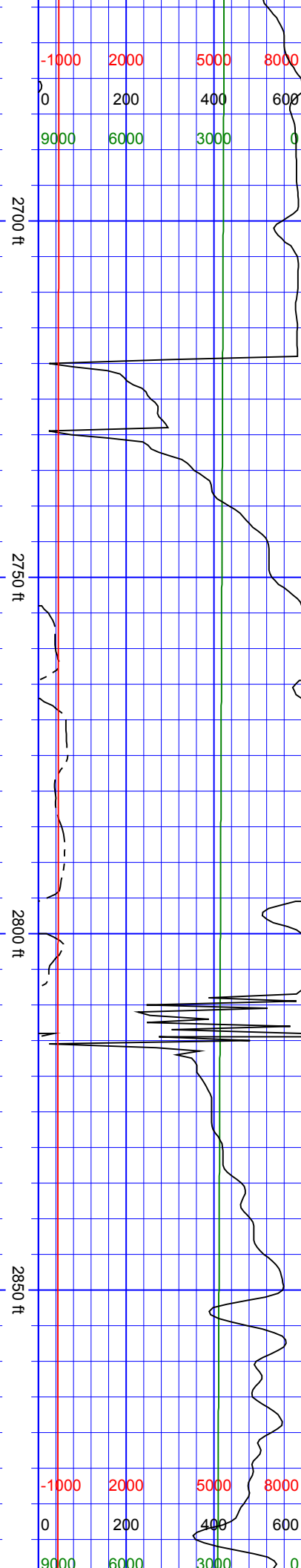
SurveyDepth:2651
TVD:2625.63 Inc:10.68
Azi:172.88 VertSec:-
292.05

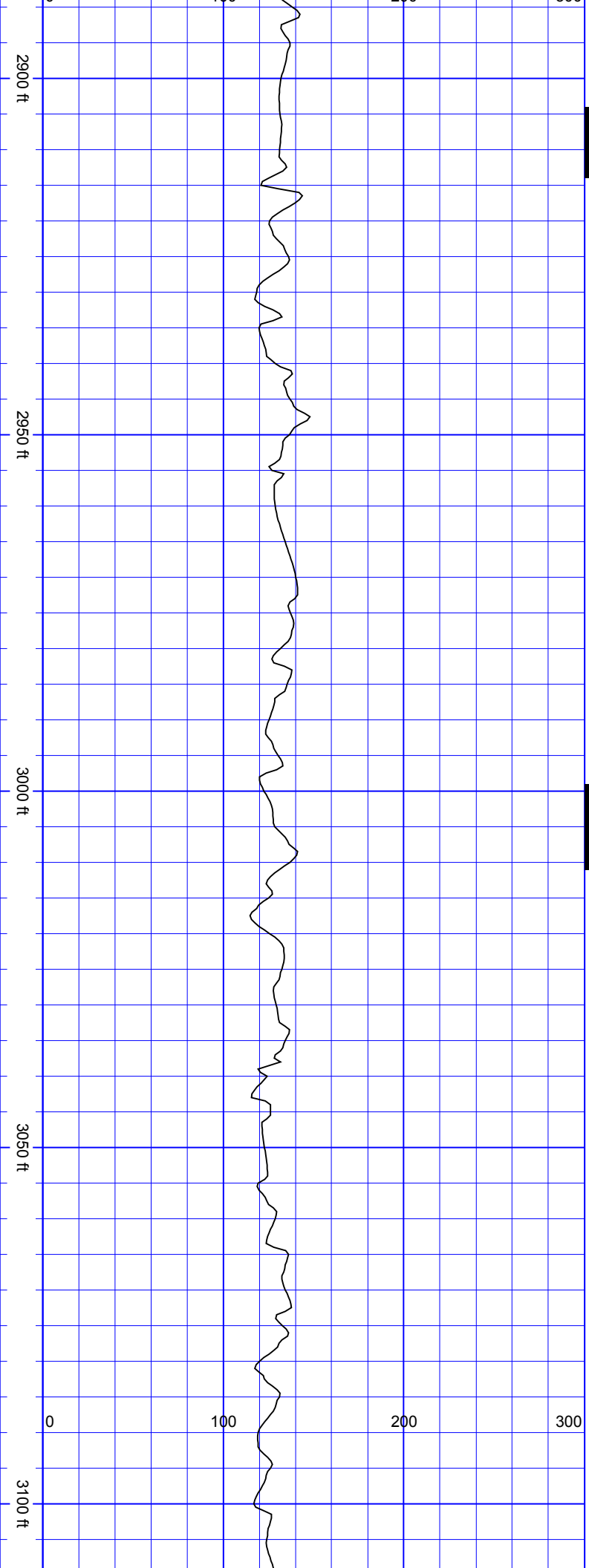




SurveyDepth:2745
TVD:2718.02 Inc:10.59
Azi:166.9 VertSec:-
309.05

SurveyDepth:2840
TVD:2811.45 Inc:10.24
Azi:166.46 VertSec:-
325.68



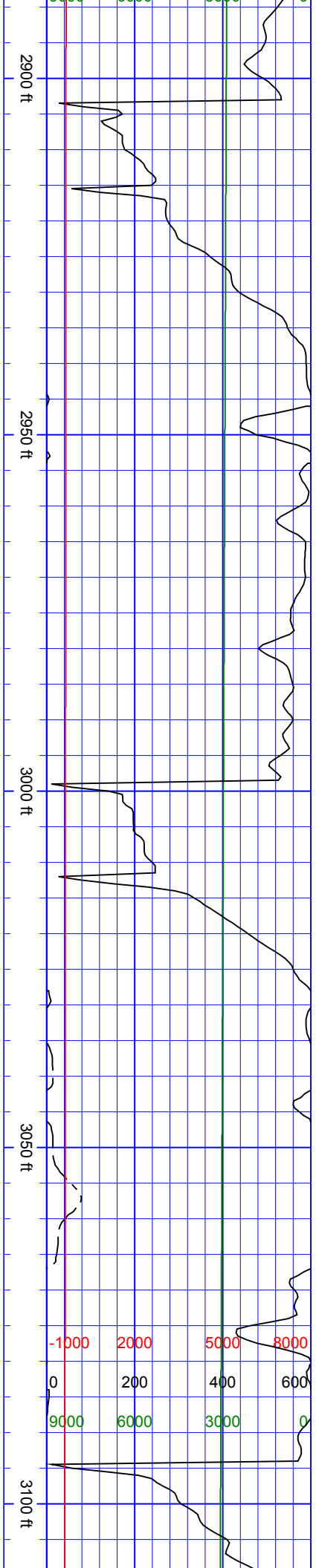


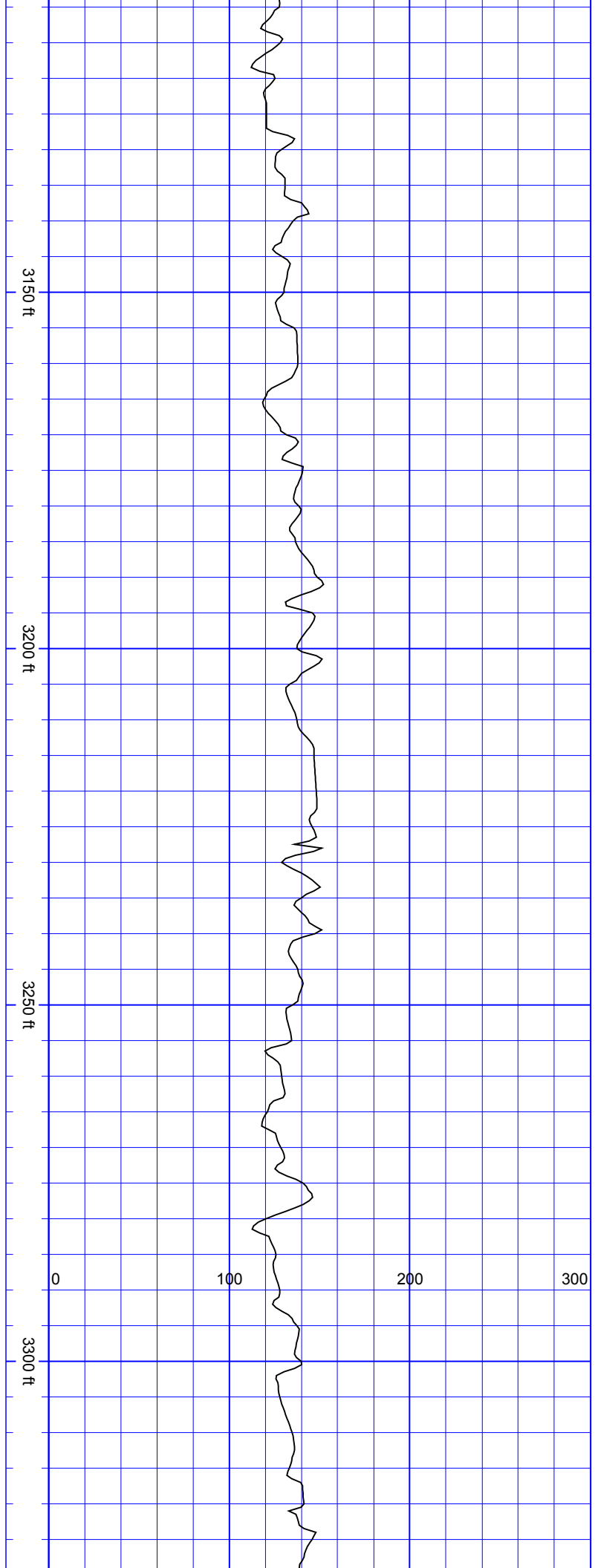
S
S
S
S

SurveyDepth:2934
TVD:2903.96 Inc:10.2
Azi:161.98 VertSec:-
341.63

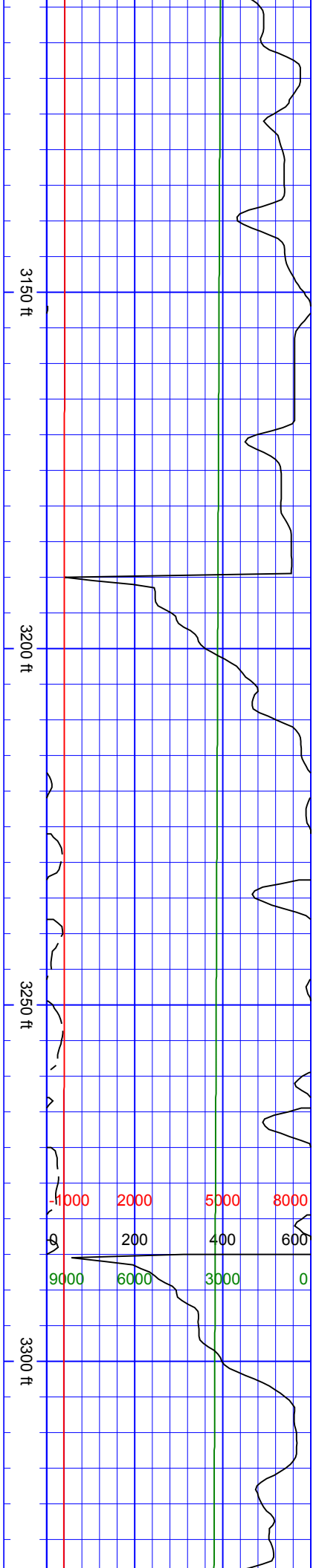
S
S
S
S

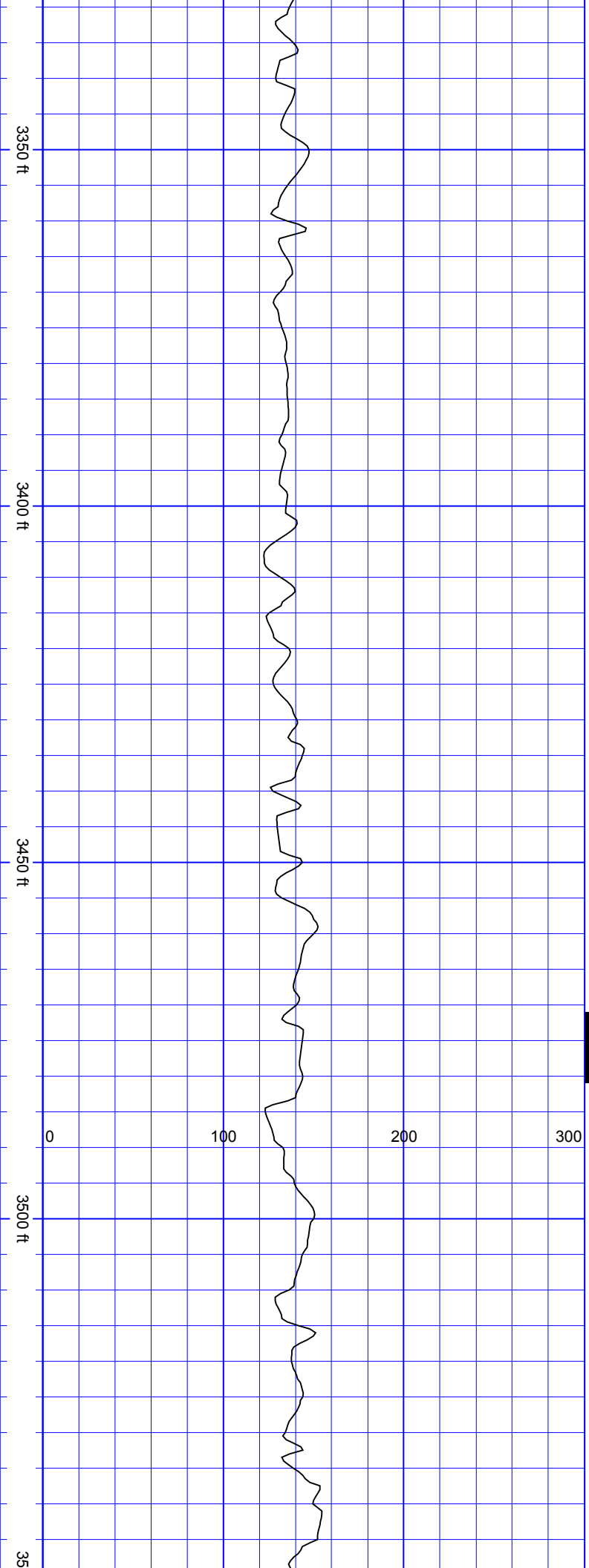
SurveyDepth:3029
TVD:2997.25 Inc:11.56
Azi:162.95 VertSec:-
358.62





SurveyDepth:3123 TVD:3089.43 Inc:11.03 Azi:163.04 VertSec:-376.12
SurveyDepth:3217 TVD:3181.81 Inc:10.28 Azi:163.39 VertSec:-392.66
SurveyDepth:3312 TVD:3275.39 Inc:9.58 Azi:162.6 VertSec:-408.23

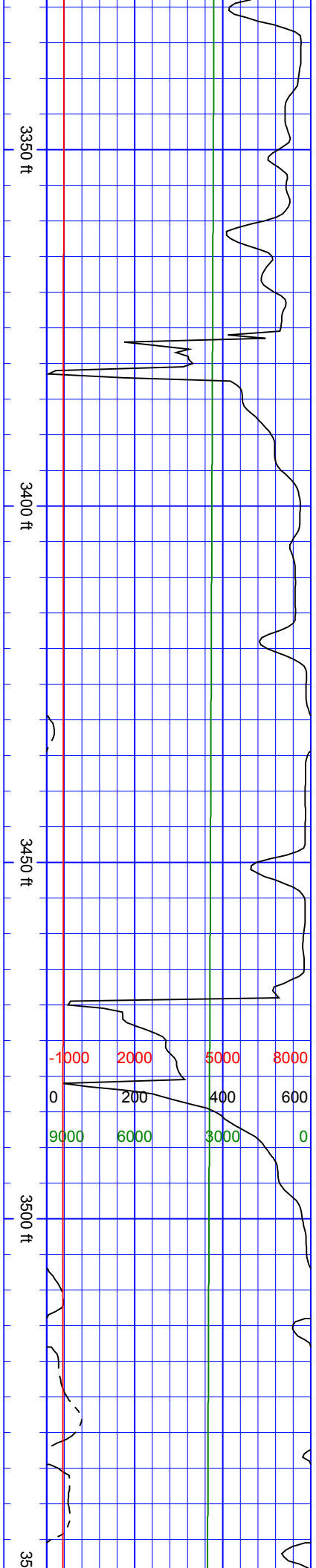


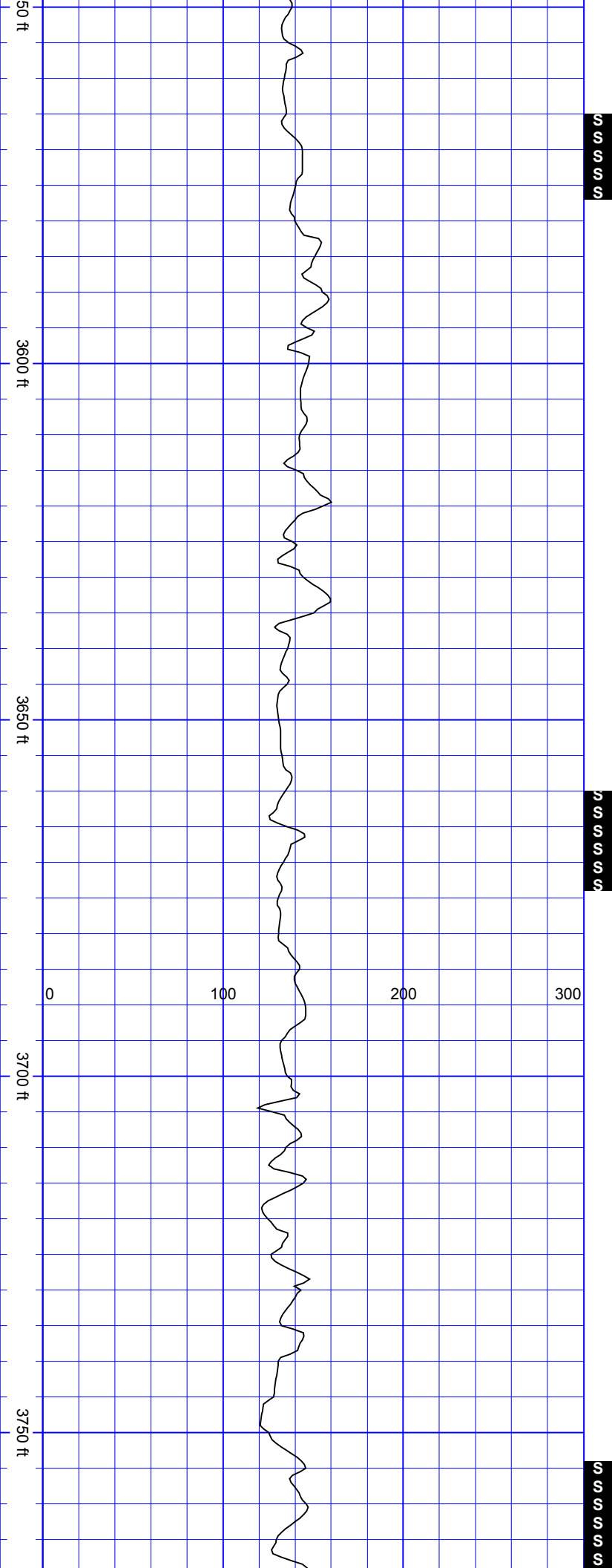


SSS

SurveyDepth:3407
TVD:3369.16 Inc:8.83
Azi:162.42 VertSec:-
422.64

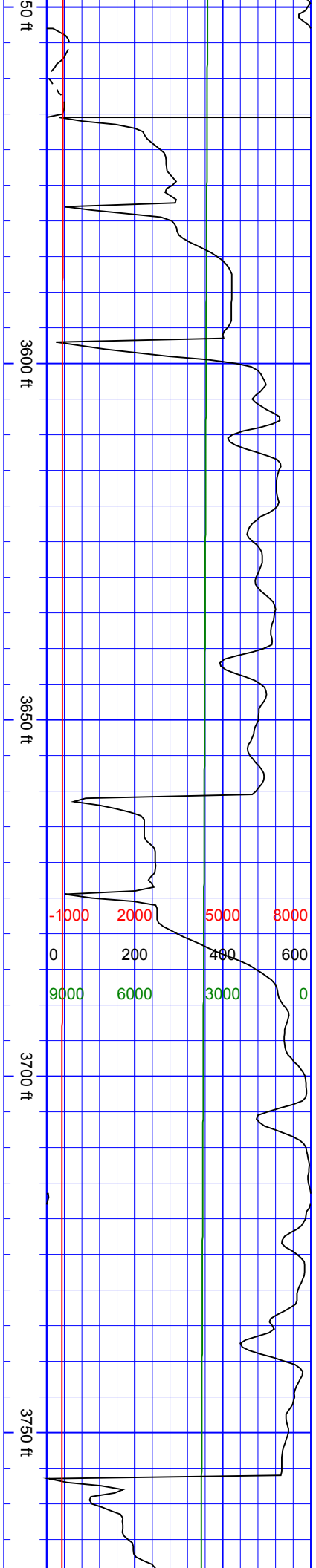
SurveyDepth:3501
TVD:3462.14 Inc:8.09
Azi:173.06 VertSec:-
436.02

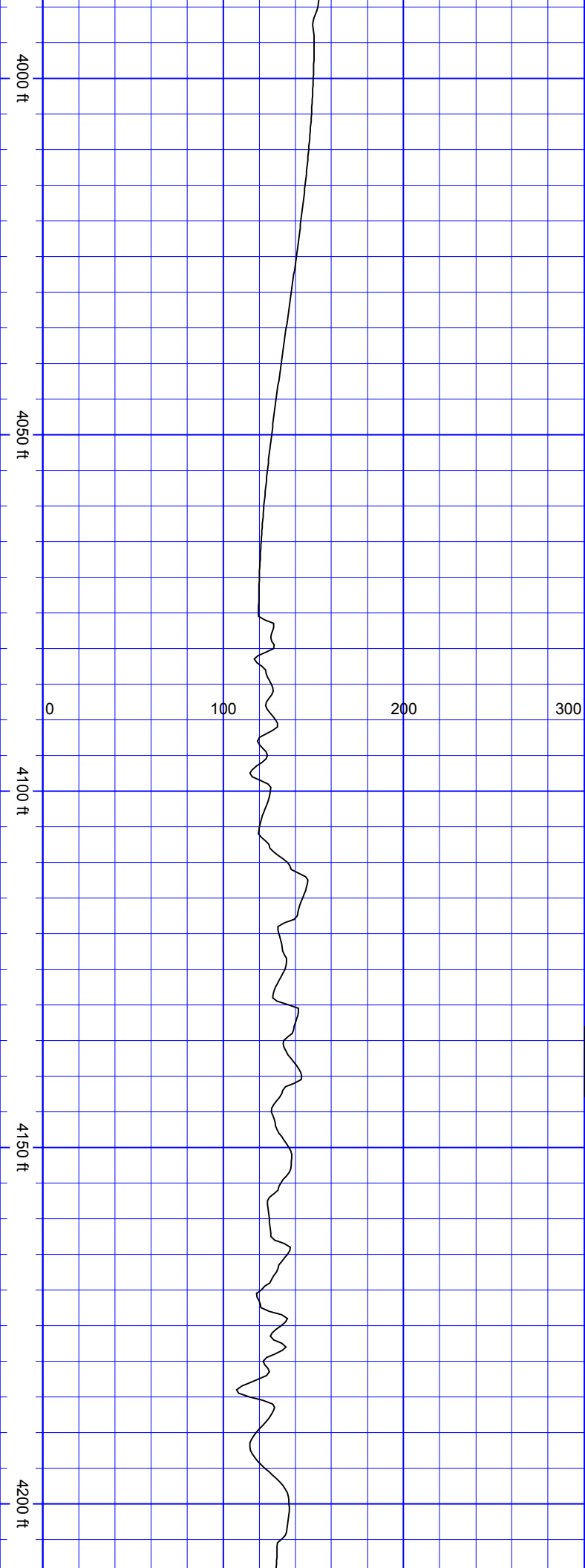




SurveyDepth:3596
TVD:3556.13 Inc:8.7
Azi:174.81 VertSec:-
449.78

SurveyDepth:3690
TVD:3648.97 Inc:9.32
Azi:175.08 VertSec:-
464.42

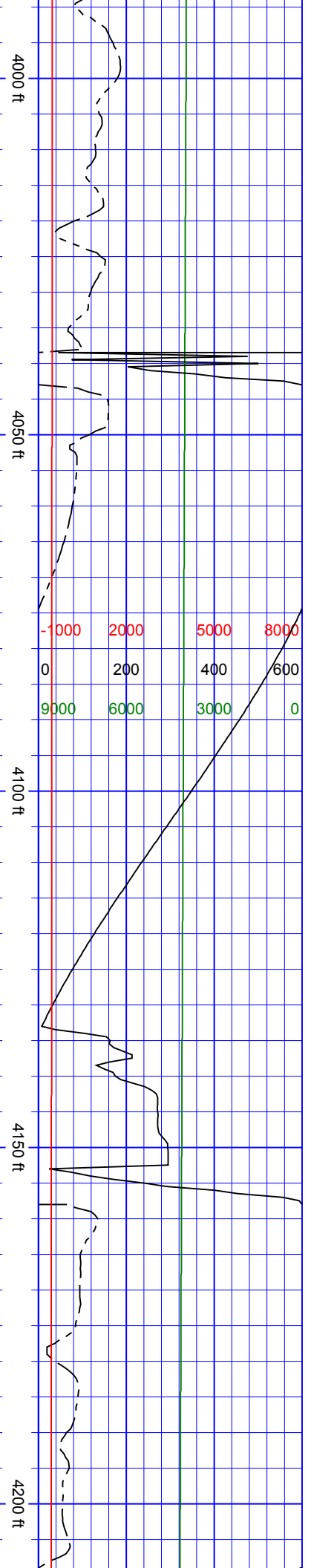


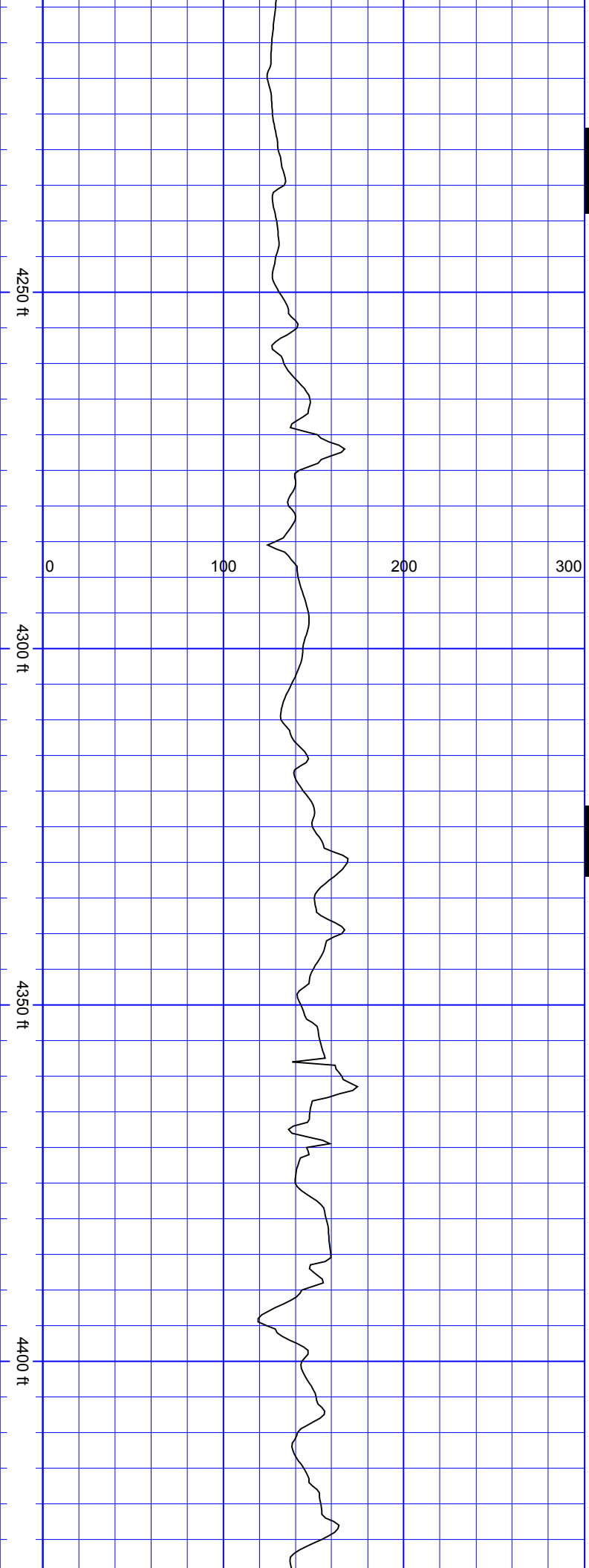


SurveyDepth:4069
TVD:4021.68 Inc:9.62
Azi:173.14 VertSec:-
532.8

SurveyDepth:4163
TVD:4114.15 Inc:11.07
Azi:176.75 VertSec:-
549.58

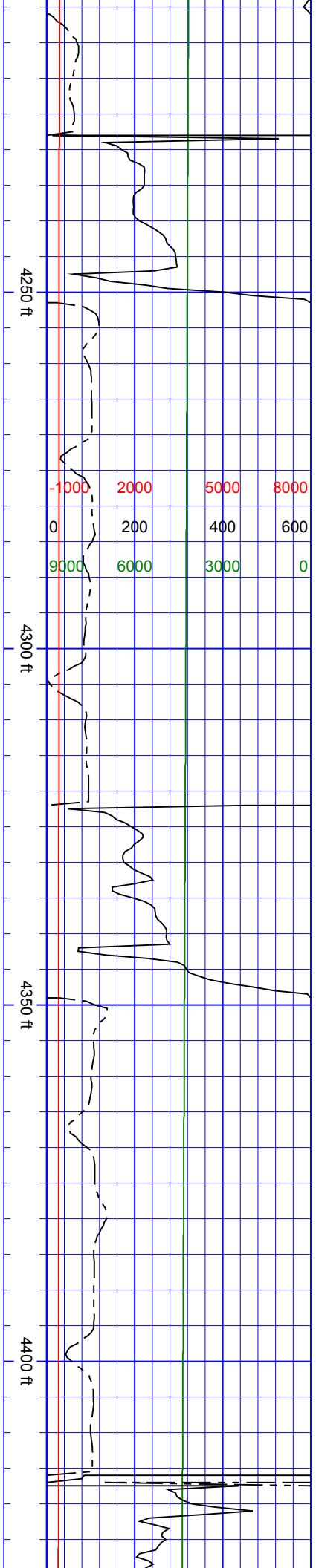
S
S
S

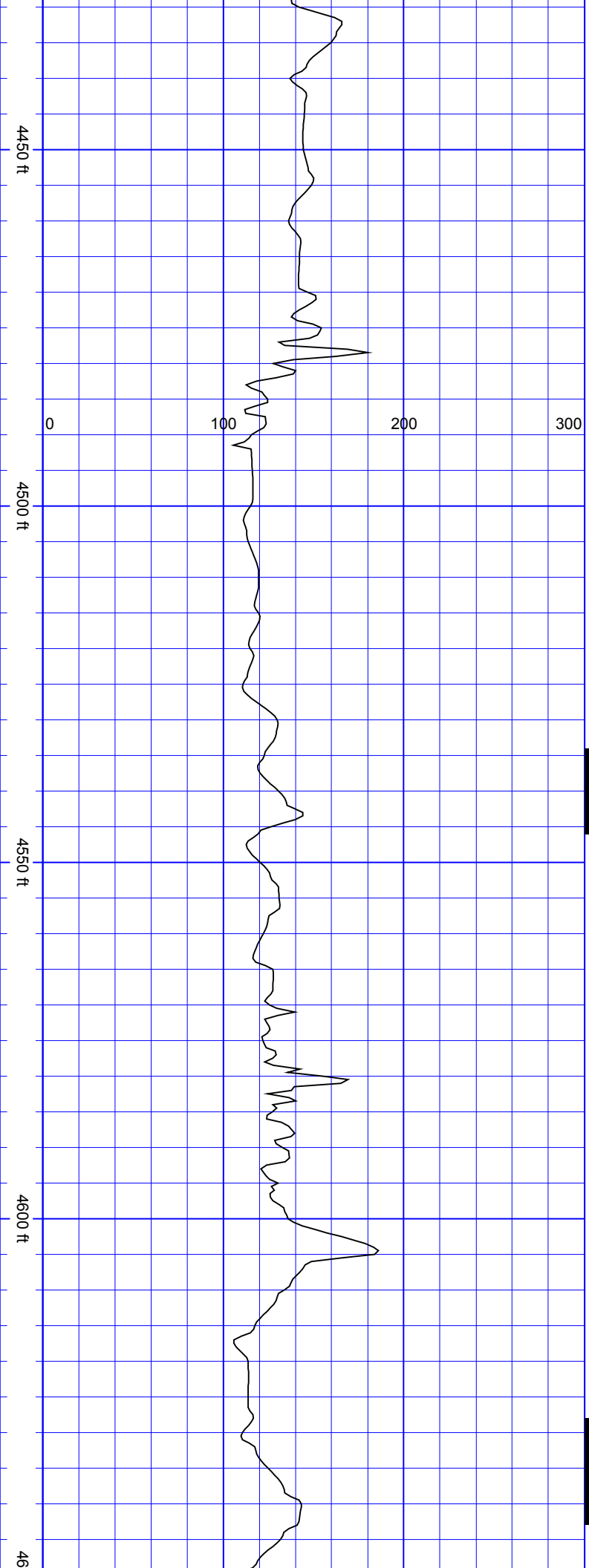




SurveyDepth:4258
TVD:4207.43 Inc:10.81
Azi:170.51 VertSec:-
567.43

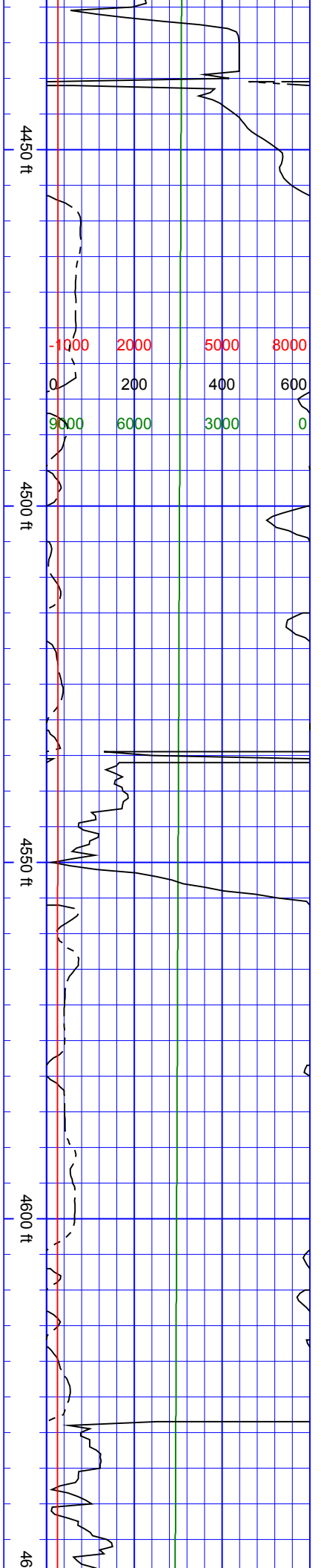
SurveyDepth:4375
TVD:4322.59 Inc:9.58
Azi:160.05 VertSec:-
587.3

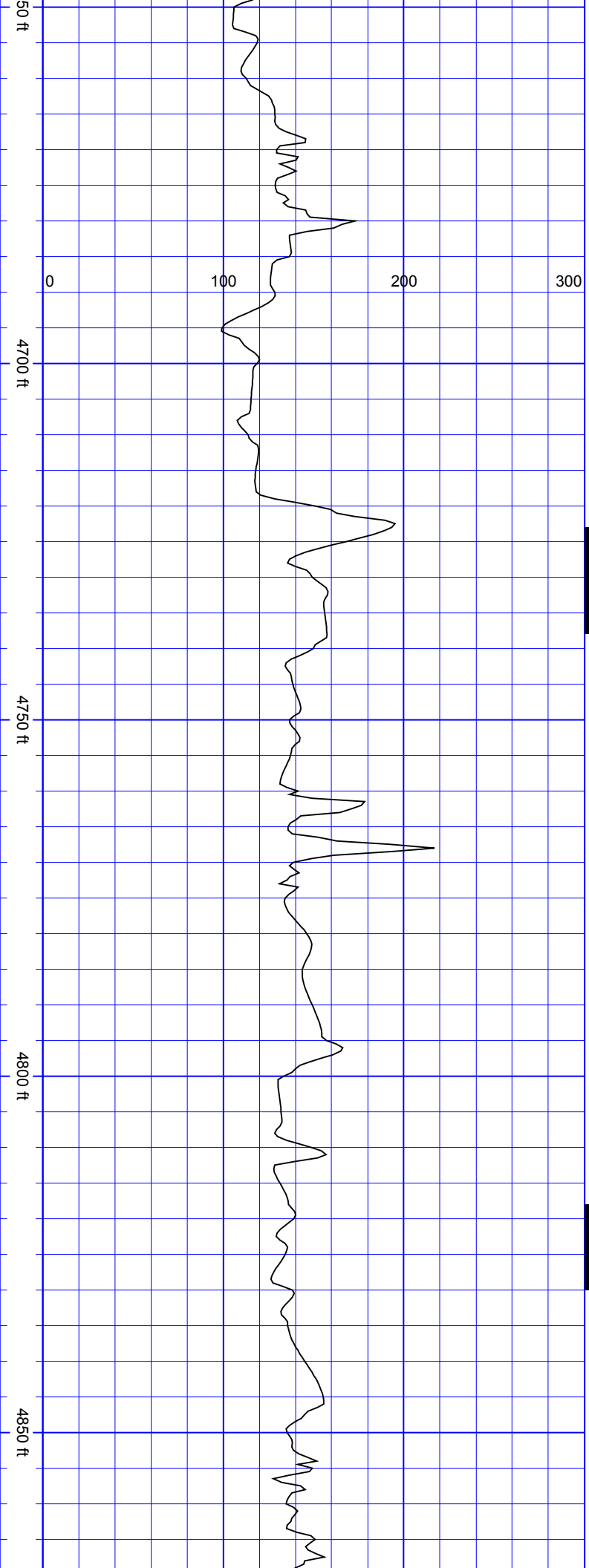




SurveyDepth:4470
TVD:4416.46 Inc:8.09
Azi:157.59 VertSec:-
600.81

SurveyDepth:4564
TVD:4509.6 Inc:7.43
Azi:150.47 VertSec:-
612.11





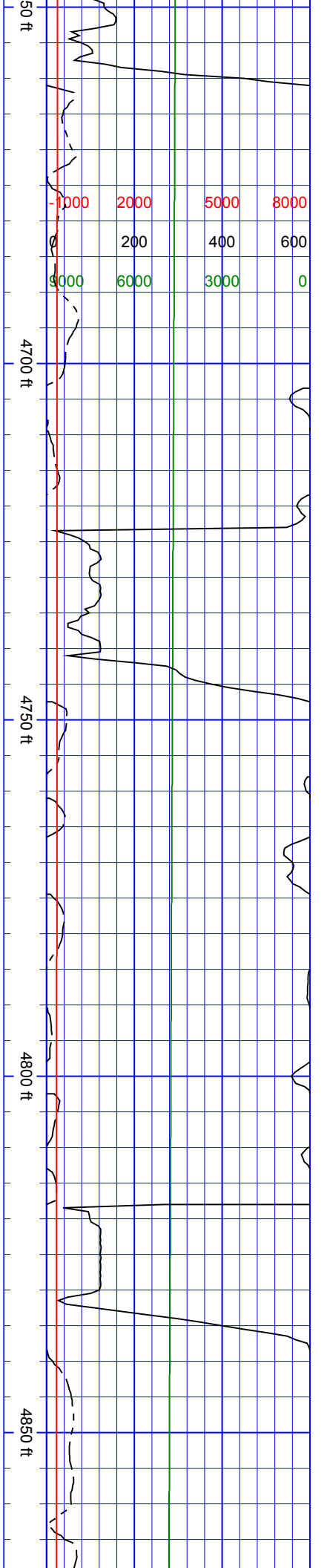
SurveyDepth:4659
TVD:4603.73 Inc:8.22
Azi:165.32 VertSec:-
623.93

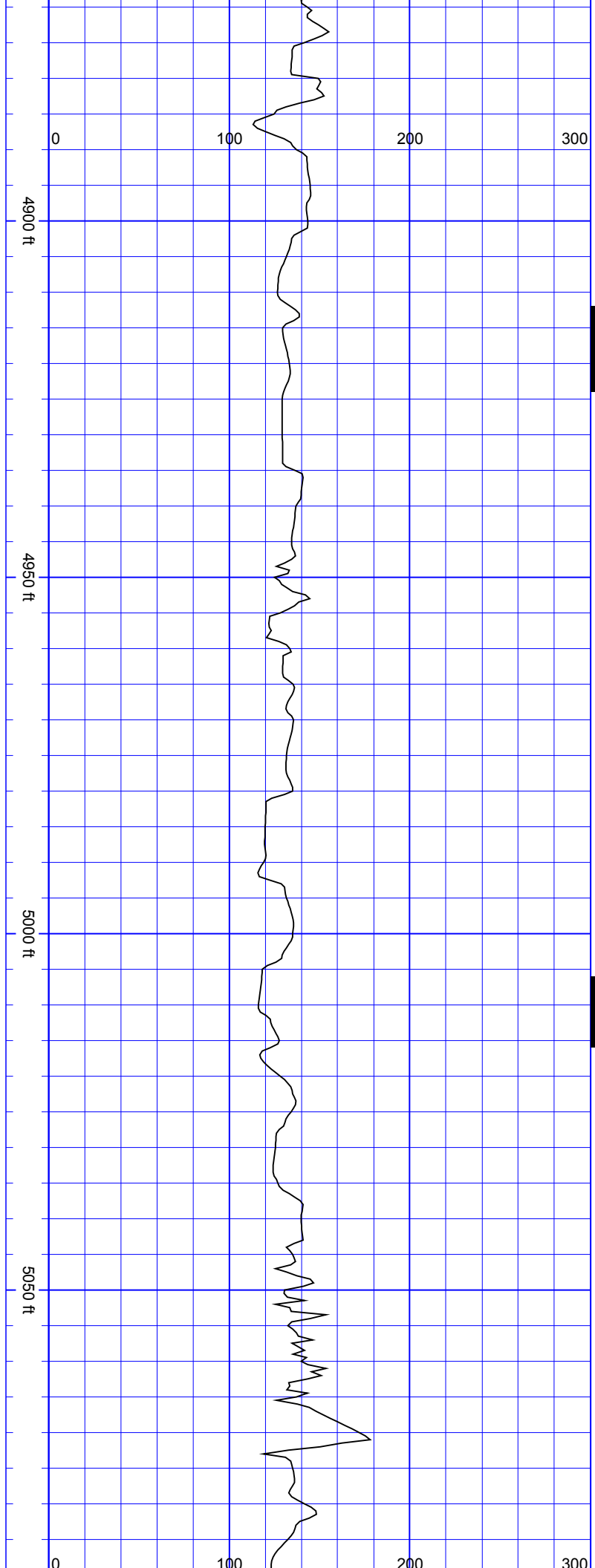
SurveyDepth:4754
TVD:4697.56 Inc:9.76
Azi:167.78 VertSec:-
638.3

SurveyDepth:4848
TVD:4790.13 Inc:10.2
Azi:169.8 VertSec:-
654.22

S
S
S
S
S

S
S
S
S
S



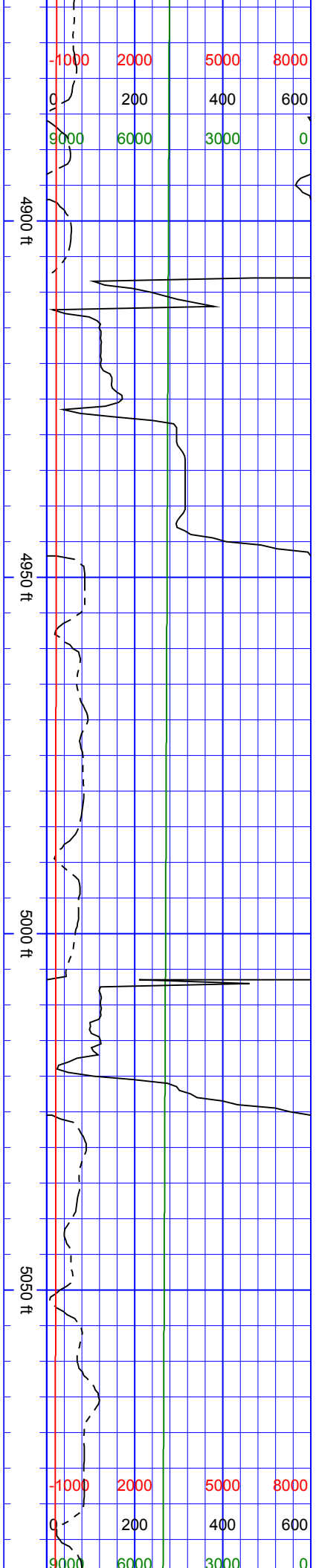


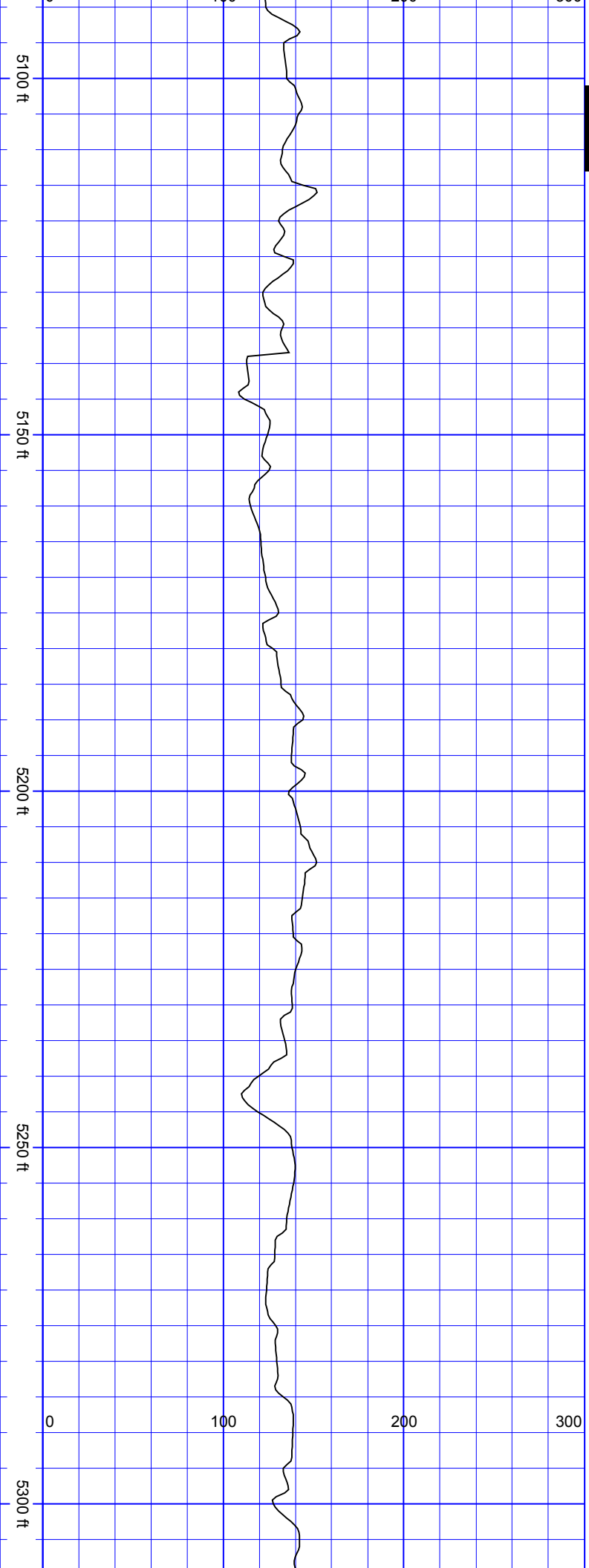
S
S
S
S

SurveyDepth:4942
TVD:4882.56 Inc:10.81
Azi:169.01 VertSec:-671

S
S
S
S

SurveyDepth:5037
TVD:4975.95 Inc:10.33
Azi:168.84 VertSec:-688.03

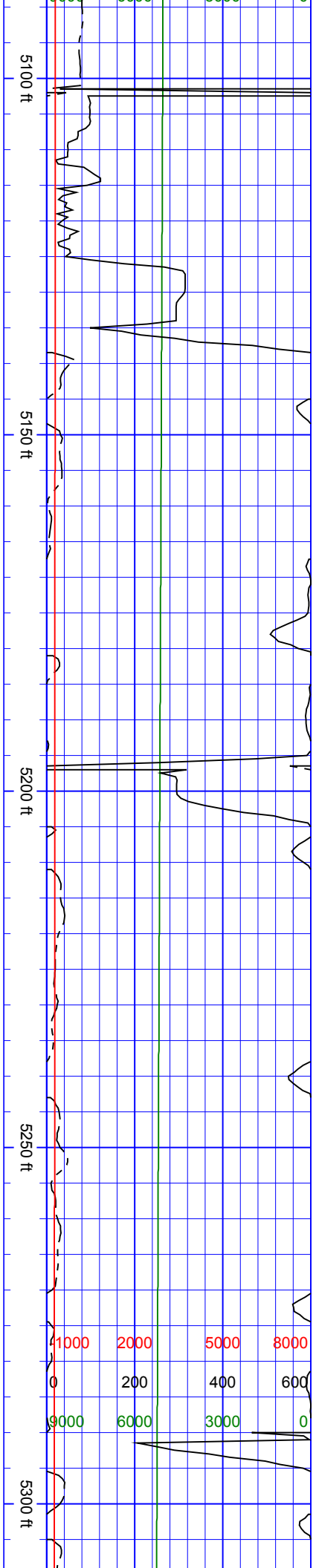


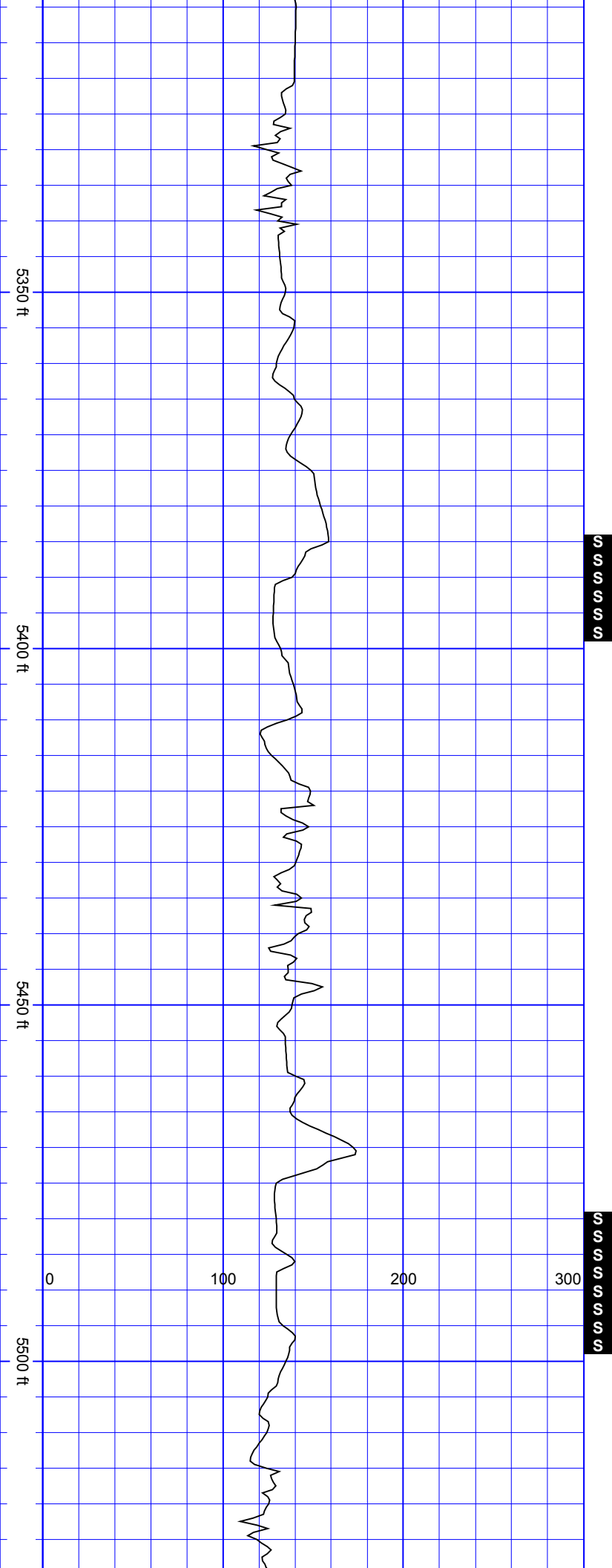


SSSS

SurveyDepth:5131
TVD:5068.49 Inc:9.84
Azi:172.44 VertSec:-
704.21

SurveyDepth:5226
TVD:5162.21 Inc:9.05
Azi:171.91 VertSec:-
719.61

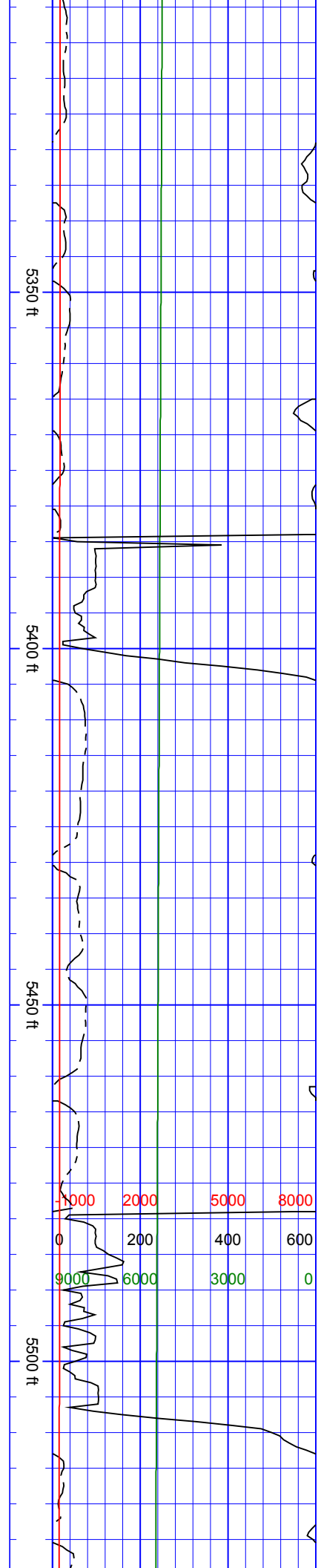


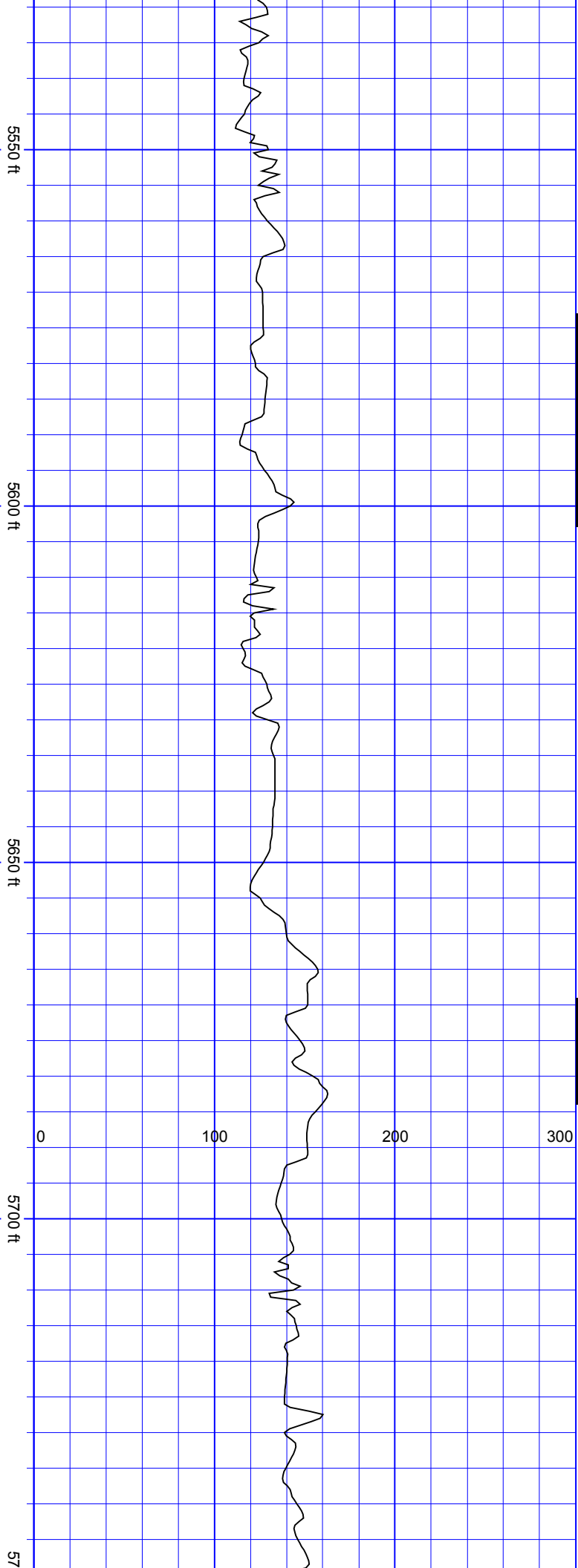


SurveyDepth:5320
TVD:5255.18 Inc:7.91
Azi:171.21 VertSec:-733.28

SurveyDepth:5415
TVD:5349.38 Inc:6.9
Azi:172.62 VertSec:-745.36

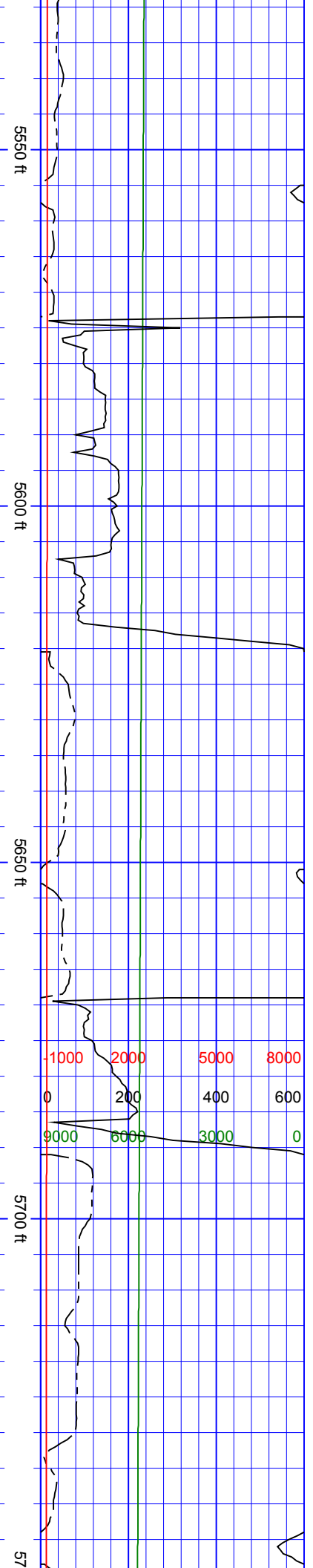
SurveyDepth:5509
TVD:5442.63 Inc:7.65
Azi:170.95 VertSec:-757.11

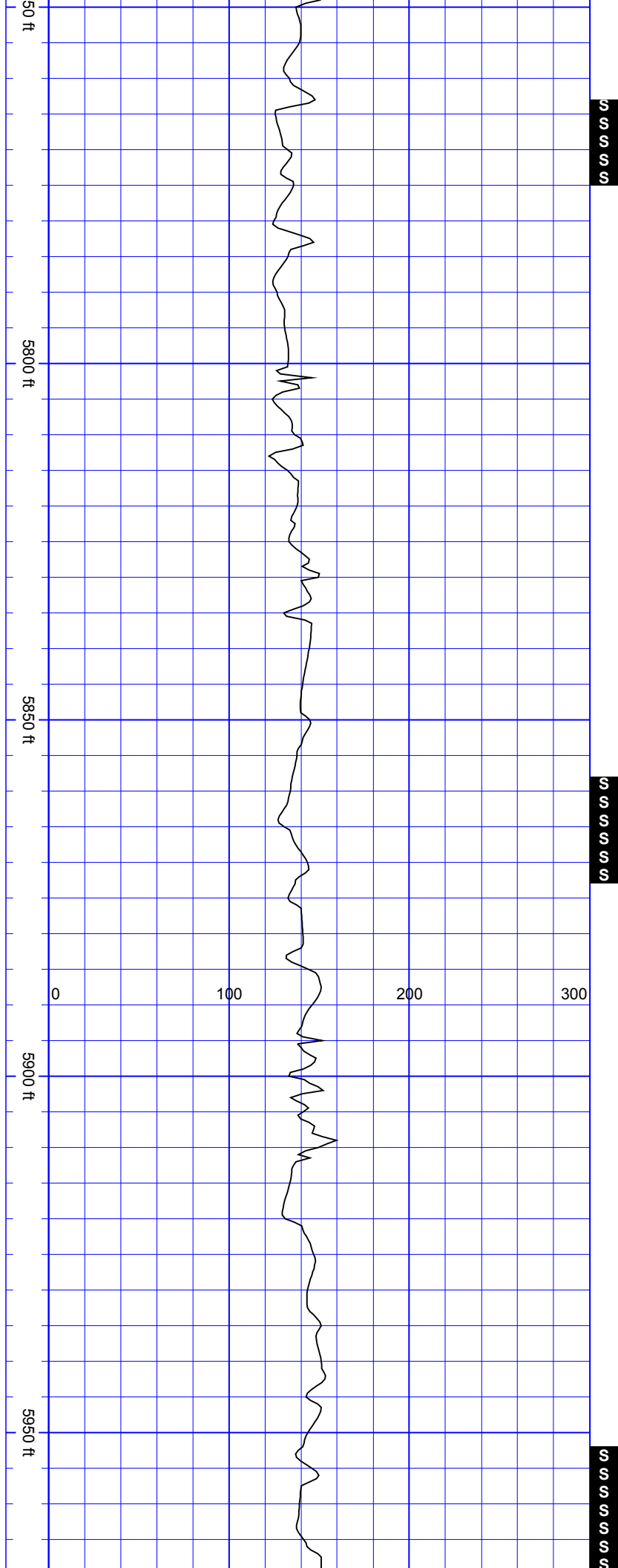




SurveyDepth:5605
TVD:5537.3 Inc:11.29
Azi:166.29 VertSec:-
772.49

SurveyDepth:5699
TVD:5629.58 Inc:10.77
Azi:176.13 VertSec:-
790.14





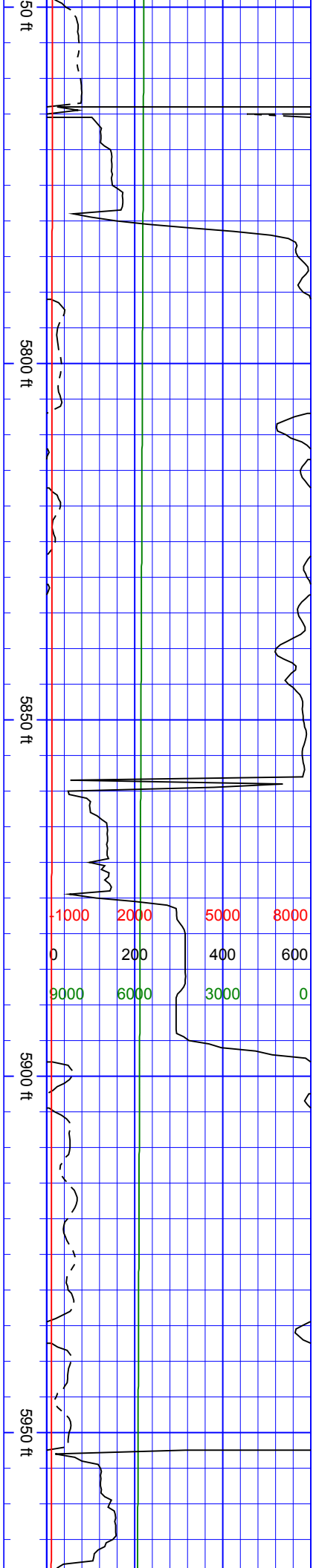
S
S
S
S
S
S

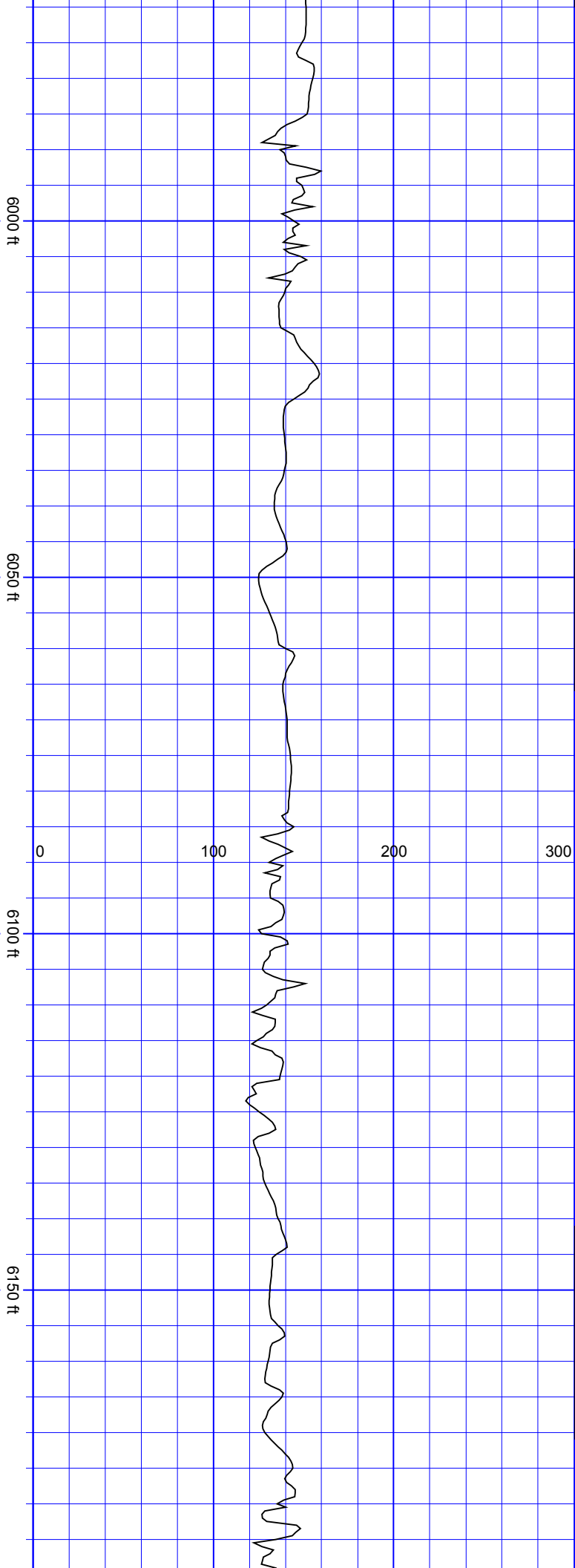
S
S
S
S
S
S

S
S
S
S
S
S

SurveyDepth:5794
TVD:5722.91 Inc:10.72
Azi:172.97 VertSec:-
807.73

SurveyDepth:5888
TVD:5815.36 Inc:10.15
Azi:169.1 VertSec:-
824.48

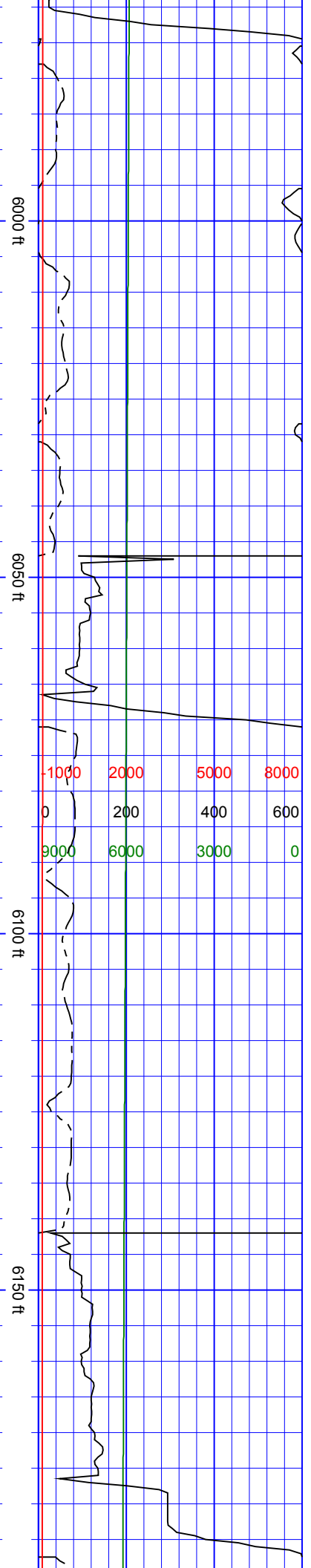


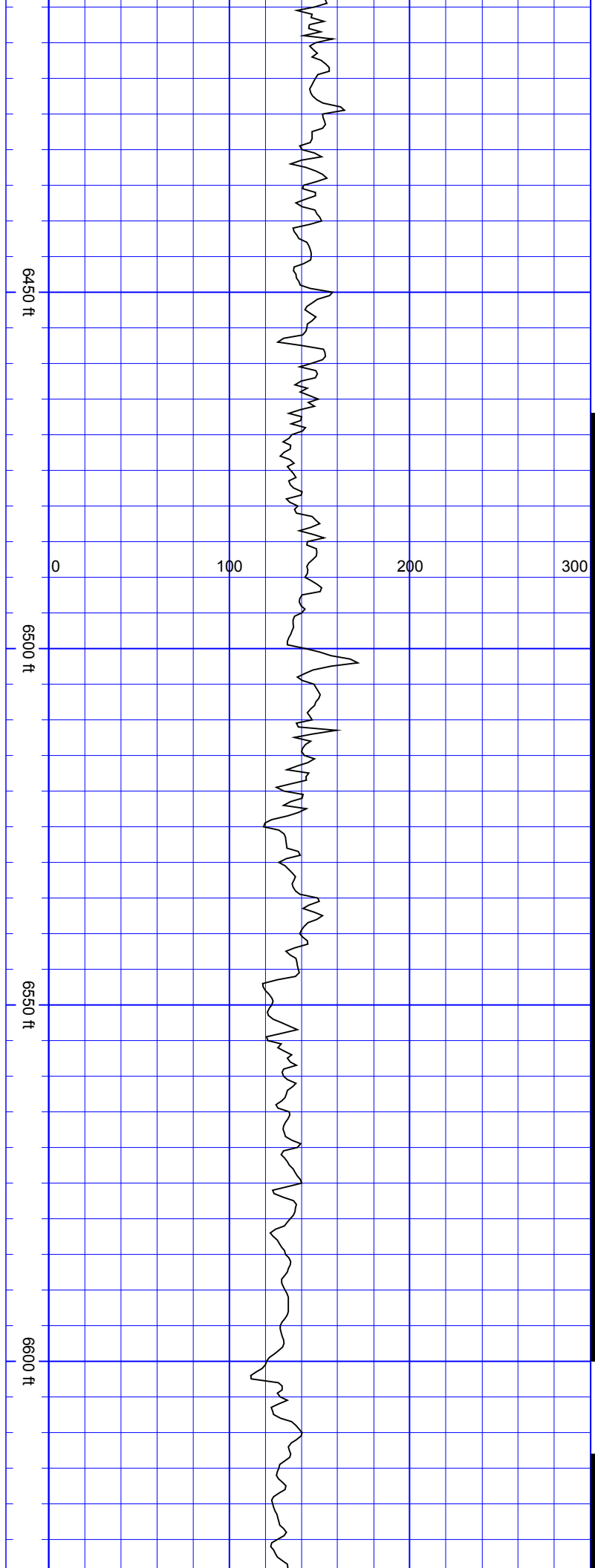


SurveyDepth:5982
TVD:5908.01 Inc:9.32
Azi:176.66 VertSec:-
840.17

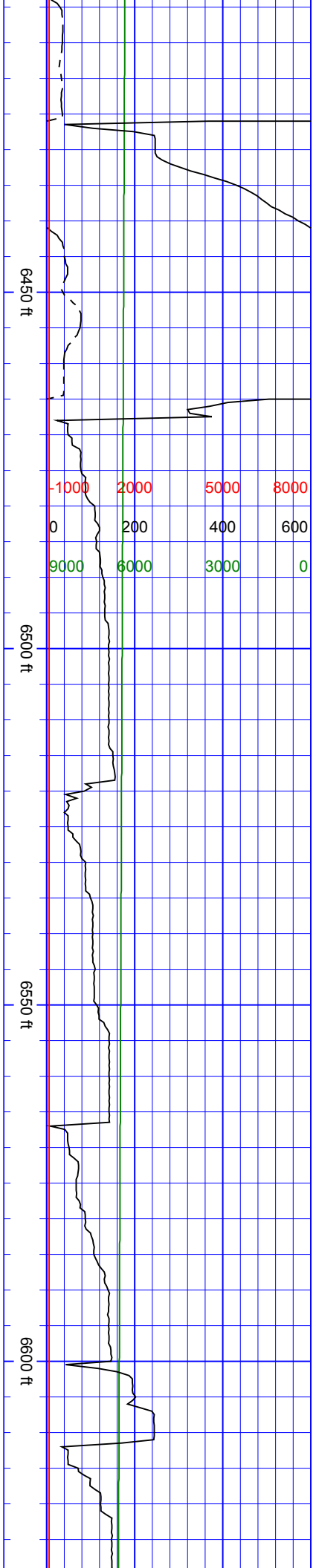
SurveyDepth:6077
TVD:6002.11 Inc:6.37
Azi:172.88 VertSec:-
853.06

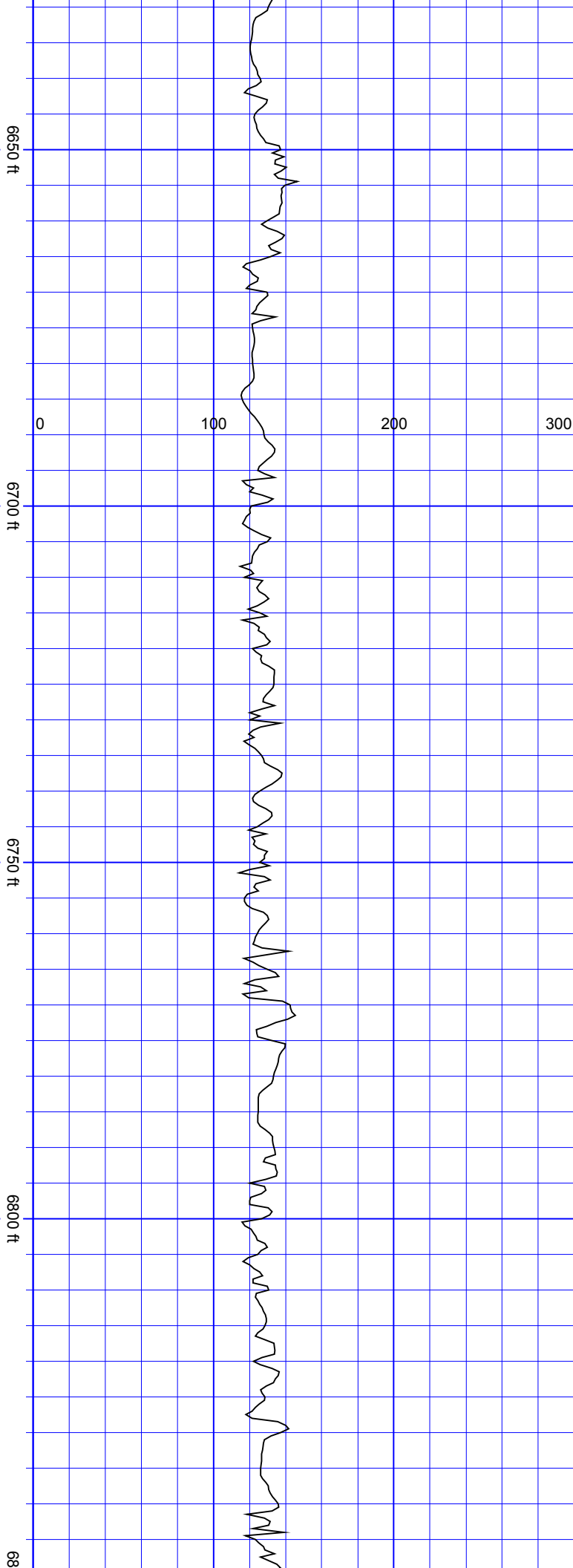
SurveyDepth:6172
TVD:6096.24 Inc:9.1
Azi:166.64 VertSec:-
865.55





SurveyDepth:6455 TVD:6375.46 Inc:8.04 Azi:164 VertSec:-910.3
SurveyDepth:6502 TVD:6422.16 Inc:5.58 Azi:112.59 VertSec:-914.28
SurveyDepth:6549 TVD:6468.86 Inc:8 Azi:68.73 VertSec:-913.87
SurveyDepth:6596 TVD:6515.1 Inc:12.57 Azi:53.26 VertSec:-909.49





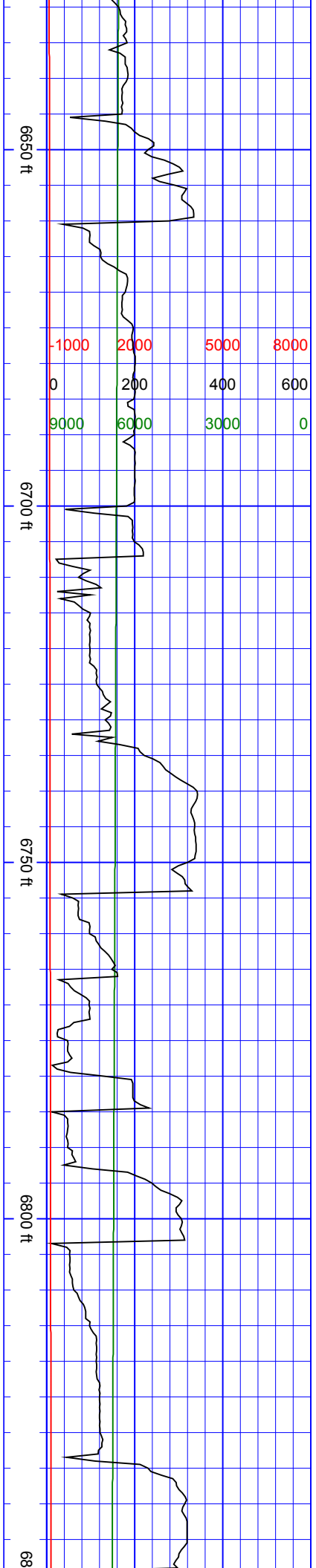
SurveyDepth:6643
TVD:6560.86 Inc:14.02
Azi:35.24 VertSec:-901.63

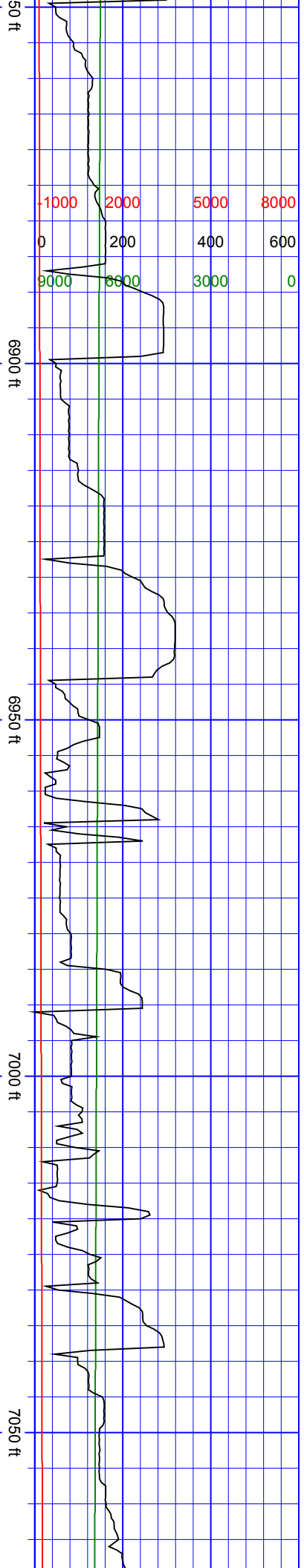
SurveyDepth:6690
TVD:6606.44 Inc:14.59
Azi:12.57 VertSec:-891.11

SurveyDepth:6738
TVD:6652.7 Inc:16.35
Azi:4.13 VertSec:-878.44

SurveyDepth:6785
TVD:6697.56 Inc:18.41
Azi:7.56 VertSec:-864.46

SurveyDepth:6833
TVD:6742.7 Inc:21.36
Azi:358.5 VertSec:-848.19



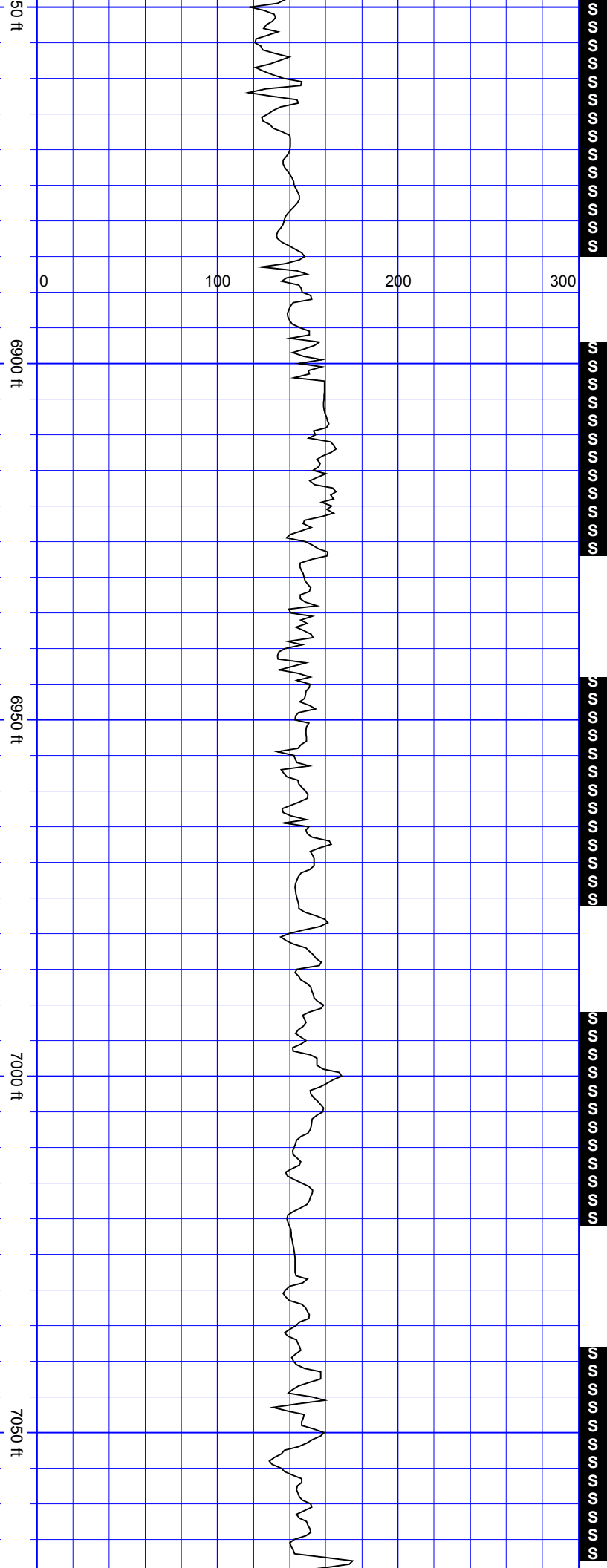


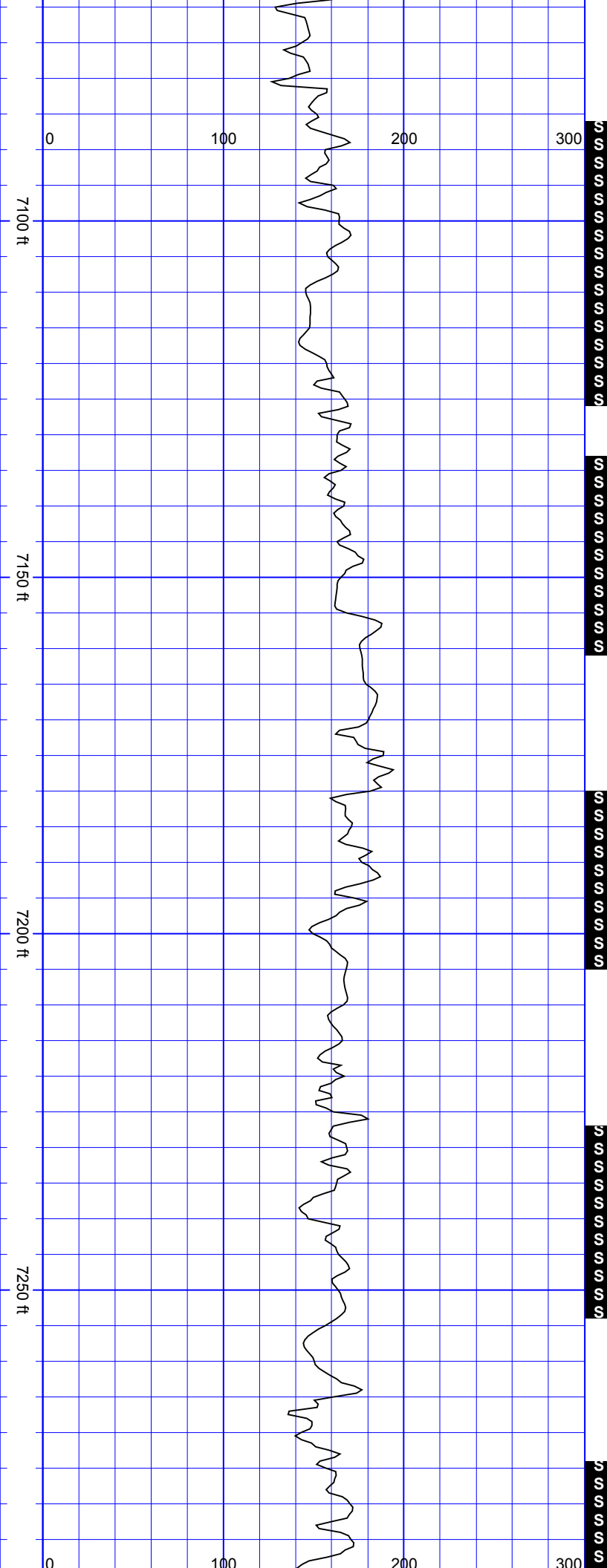
SurveyDepth:6880
TVD:6785.92 Inc:24.87
Azi:353.41 VertSec:-
829.83

SurveyDepth:6927
TVD:6827.89 Inc:28.61
Azi:354.46 VertSec:-
808.85

SurveyDepth:6974
TVD:6868.48 Inc:31.9
Azi:354.99 VertSec:-
785.32

SurveyDepth:7022
TVD:6908.69 Inc:34.32
Azi:353.41 VertSec:-
759.3





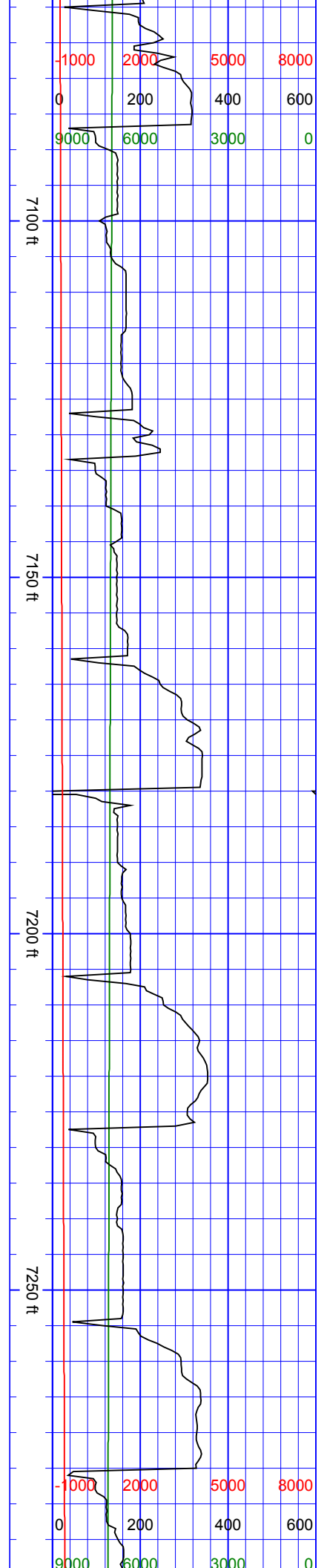
SurveyDepth:7069
TVD:6946.61 Inc:38.06
Azi:354.55 VertSec:-731.76

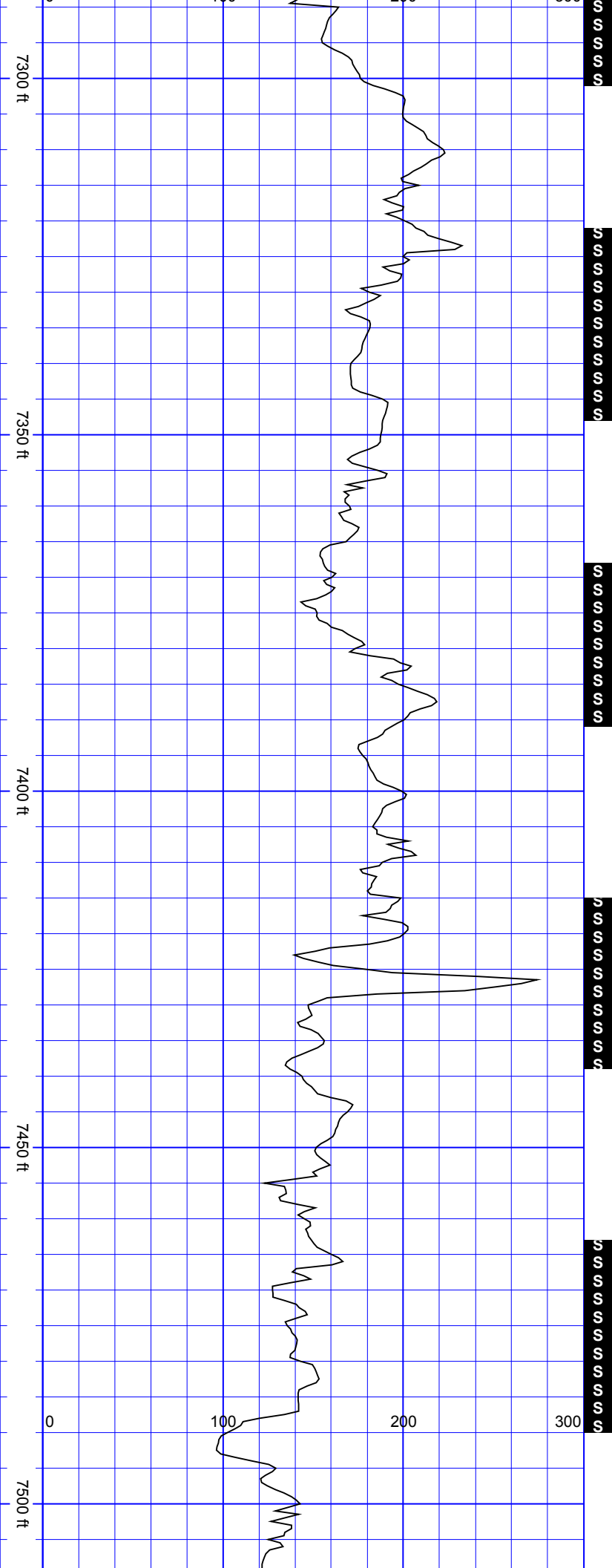
SurveyDepth:7116
TVD:6982.64 Inc:41.84
Azi:357.54 VertSec:-701.71

SurveyDepth:7163
TVD:7016.49 Inc:46.01
Azi:359.3 VertSec:-669.15

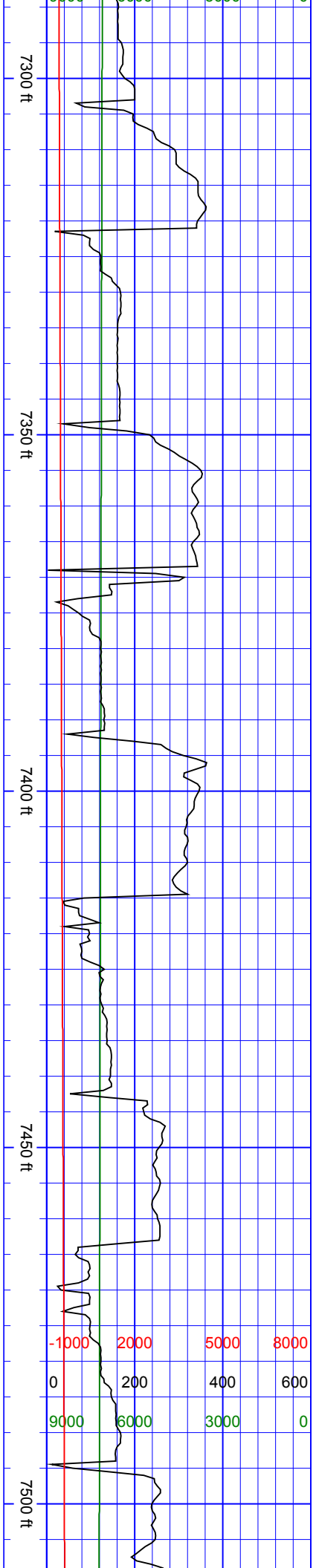
SurveyDepth:7210
TVD:7048.29 Inc:48.82
Azi:358.07 VertSec:-634.58

SurveyDepth:7257
TVD:7078.16 Inc:52.25
Azi:358.42 VertSec:-598.35



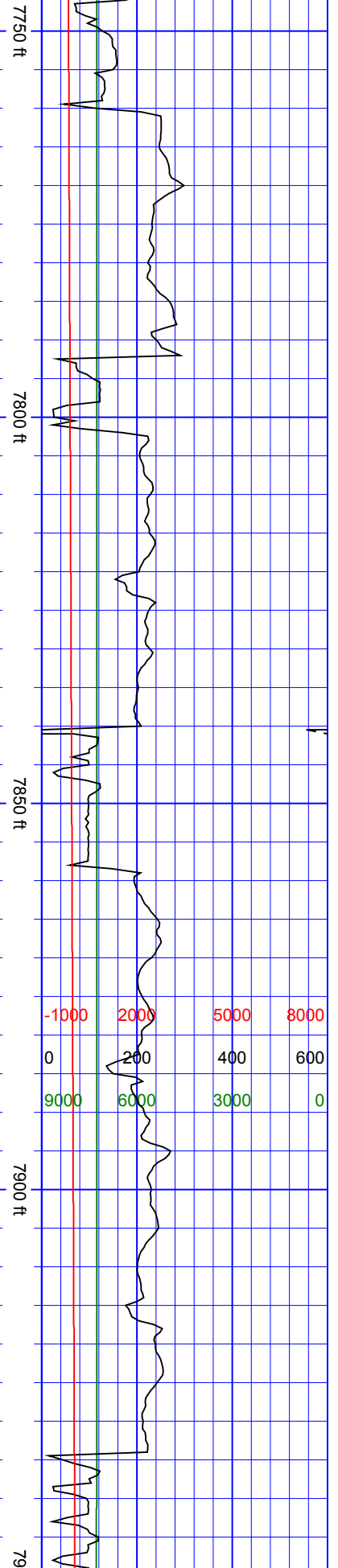
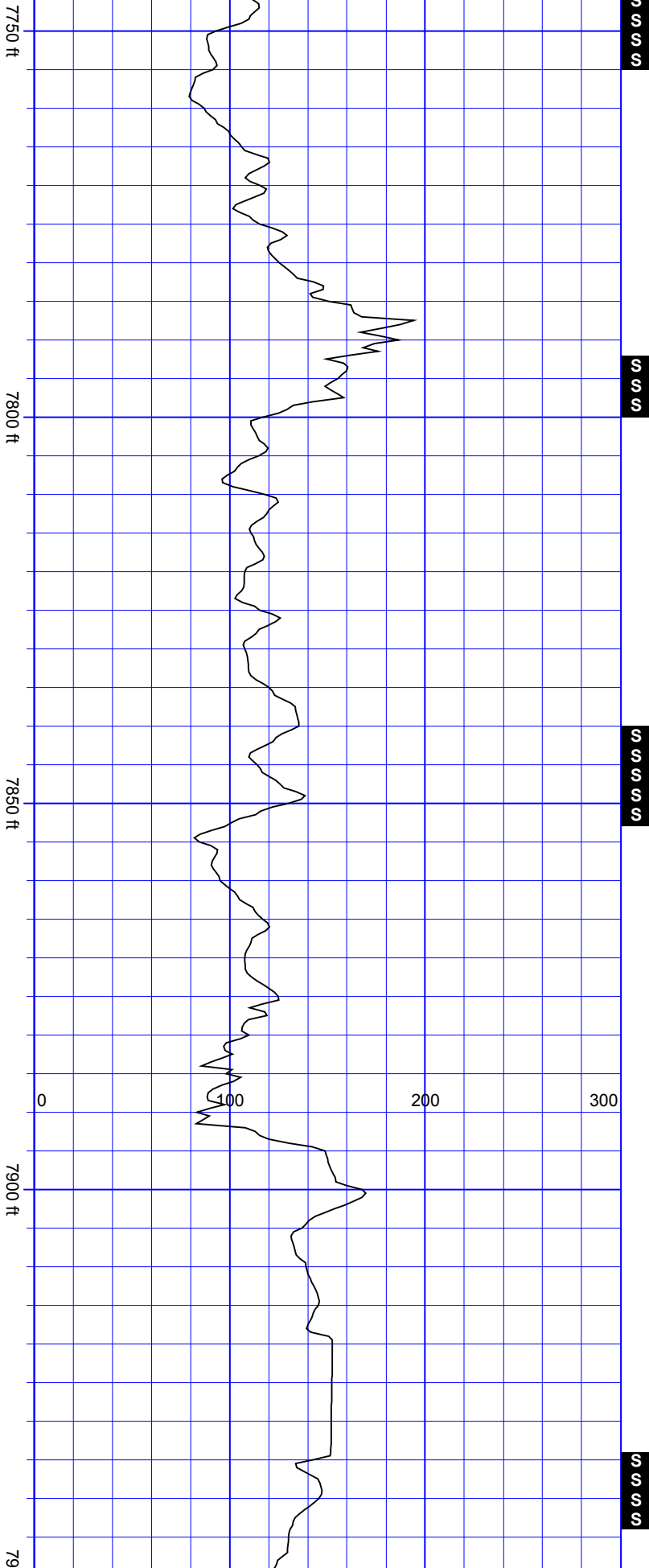


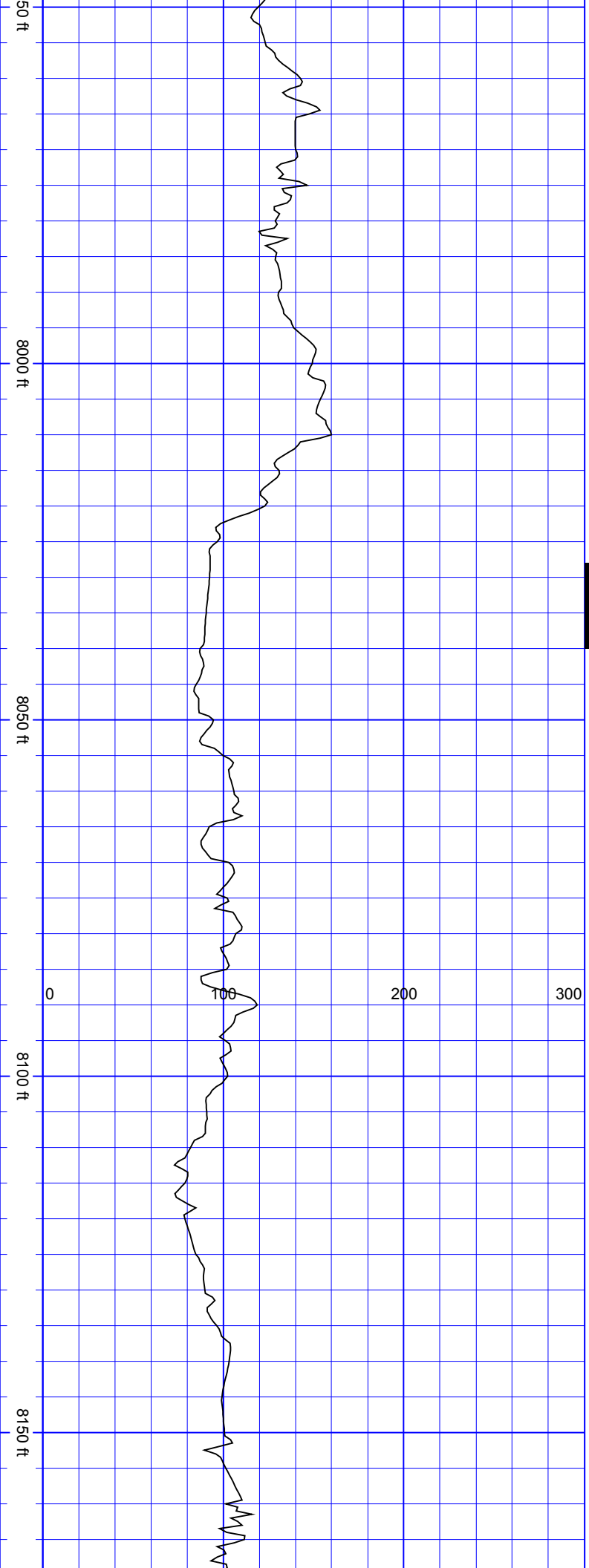
SurveyDepth:7304 TVD:7105.76 Inc:55.81 Azi:359.03 VertSec:-560.35
SurveyDepth:7351 TVD:7131.14 Inc:58.8 Azi:359.91 VertSec:-520.82
SurveyDepth:7399 TVD:7155.31 Inc:60.73 Azi:2.11 VertSec:-479.35
SurveyDepth:7493 TVD:7196.99 Inc:66.62 Azi:359.65 VertSec:-395.15



SurveyDepth:7728
TVD:7252.03 Inc:84.29
Azi:2.11 VertSec:-167.82

SurveyDepth:7776
TVD:7256.18 Inc:85.78
Azi:1.84 VertSec:-120



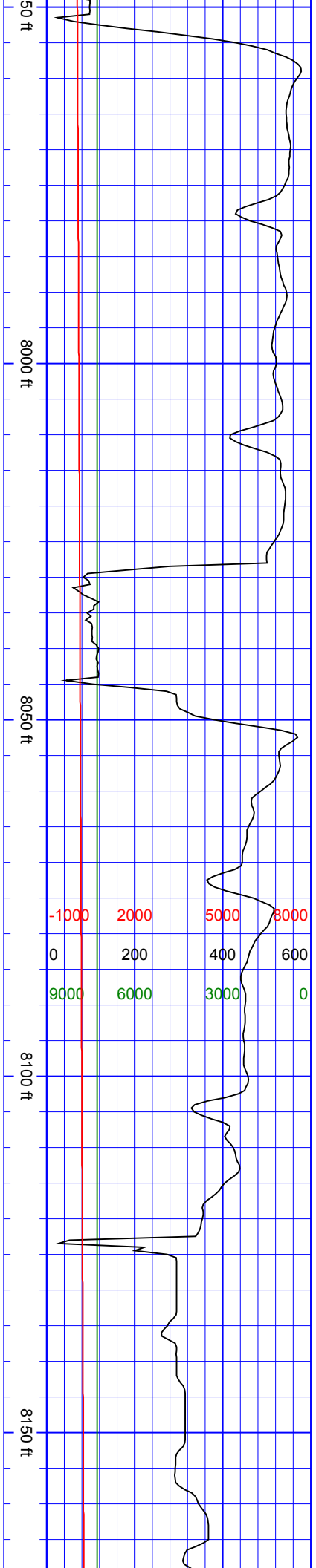


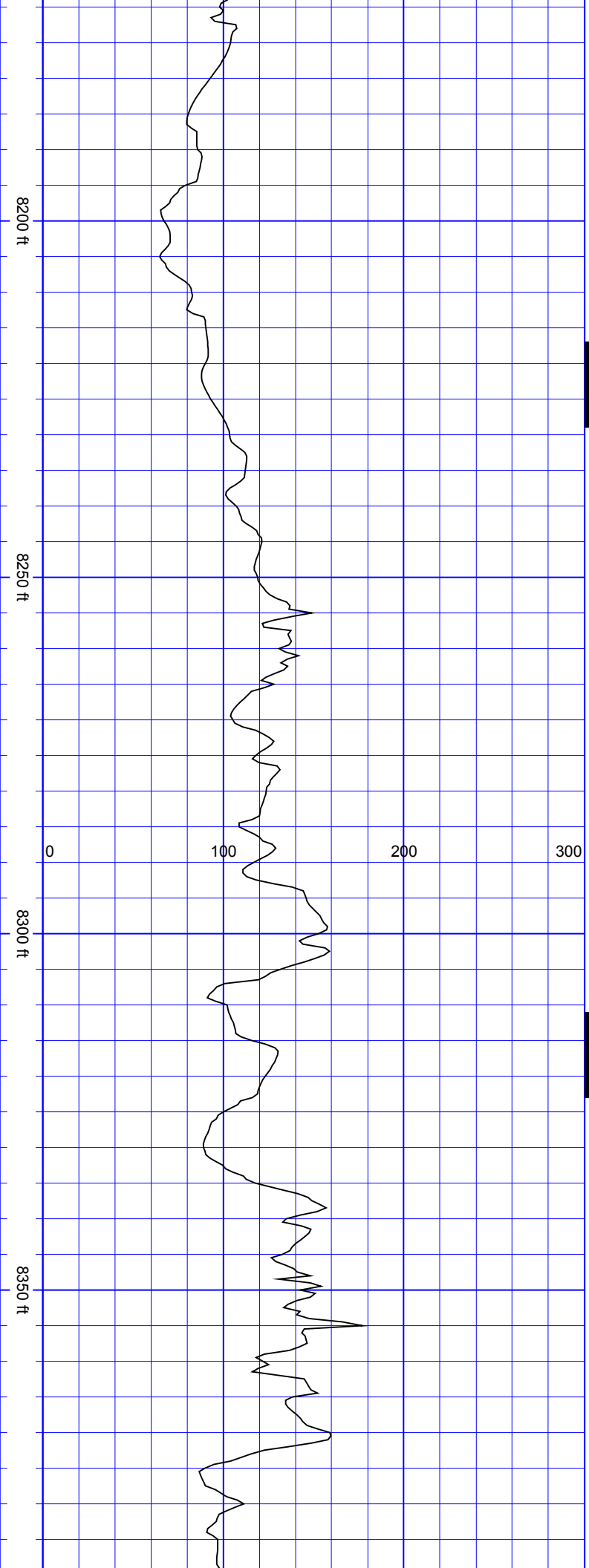
SurveyDepth:7964
TVD:7266.05 Inc:88.2
Azi:1.41 VertSec:67.71

SurveyDepth:8059
TVD:7267.88 Inc:89.6
Azi:1.14 VertSec:162.69

SurveyDepth:8153
TVD:7269.21 Inc:88.77
Azi:1.23 VertSec:256.68

SSS



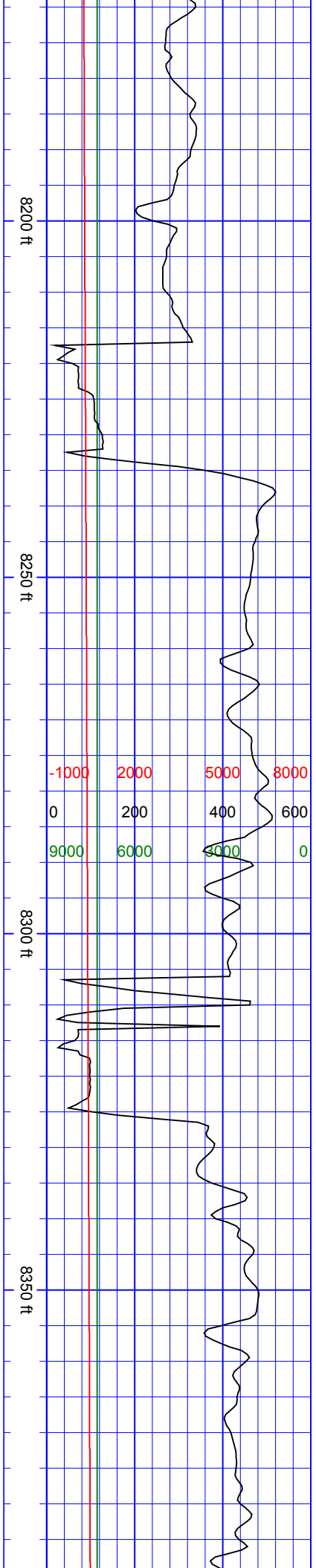


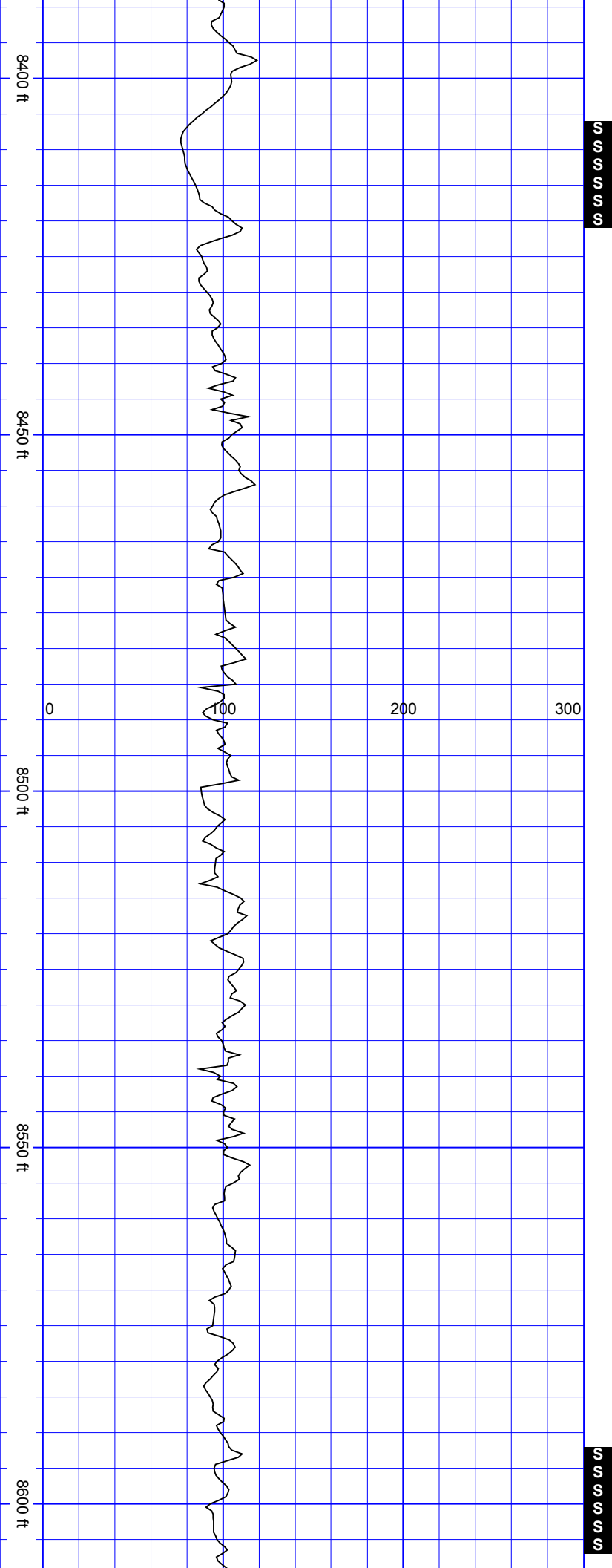
S
S
S
S
S

SurveyDepth:8247
TVD:7270.48 Inc:89.69
Azi:0.7 VertSec:350.67

S
S
S
S
S

SurveyDepth:8342
TVD:7271.1 Inc:89.56
Azi:360 VertSec:445.66



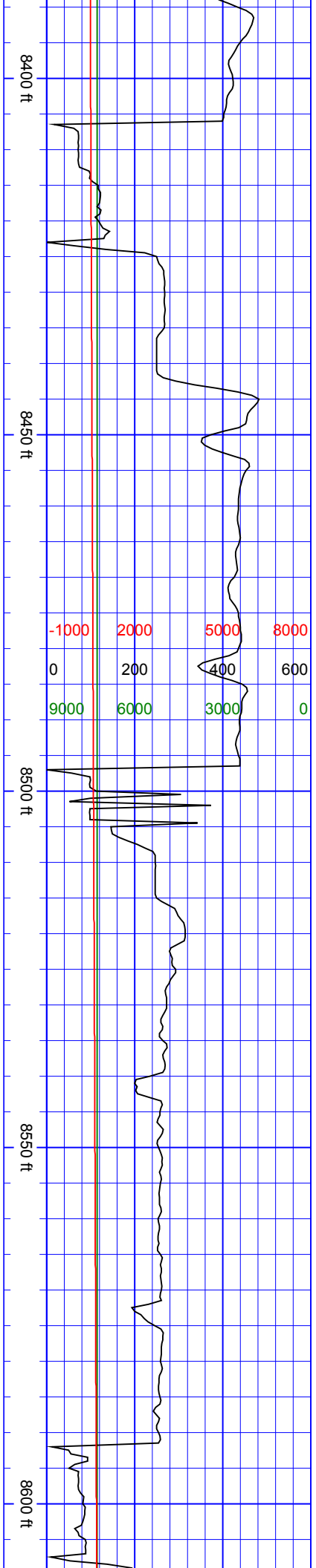


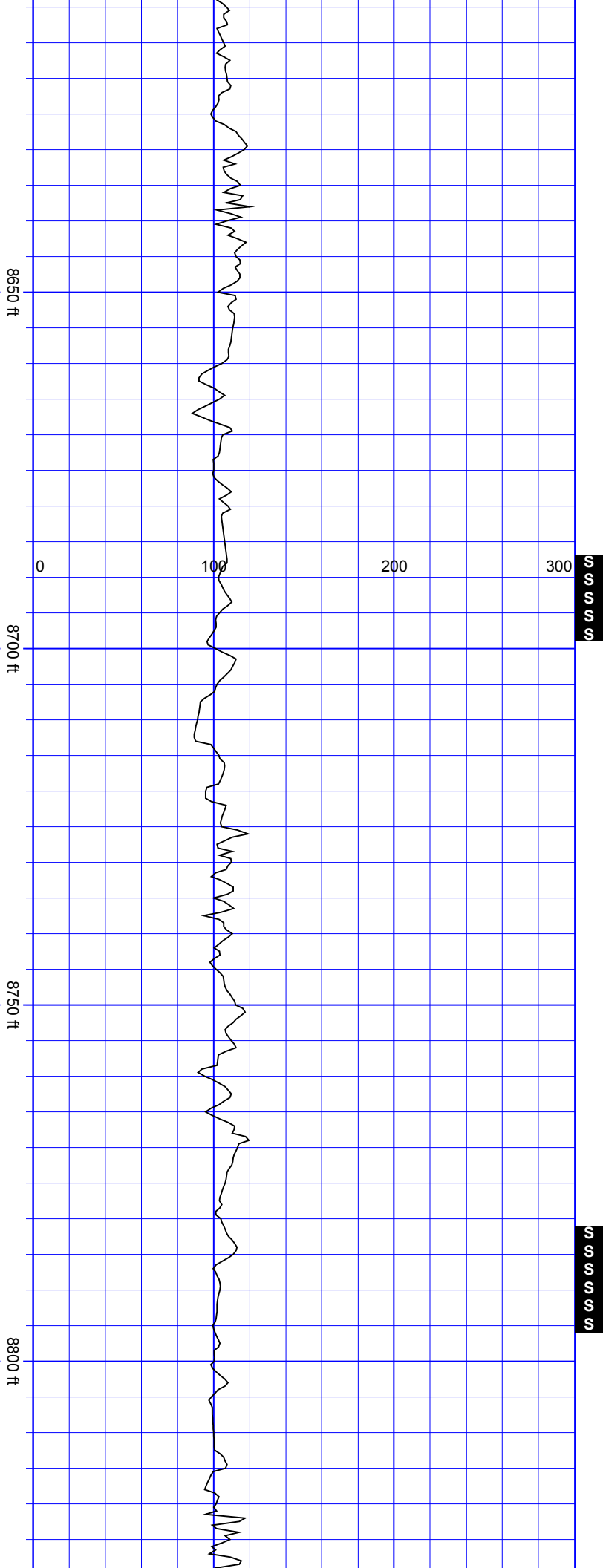
SSSSSS

SurveyDepth:8435
TVD:7270.99 Inc:90.57
Azi:359.03
VertSec:538.62

SSSSSS

SurveyDepth:8530
TVD:7269.9 Inc:90.75
Azi:357.71
VertSec:633.51

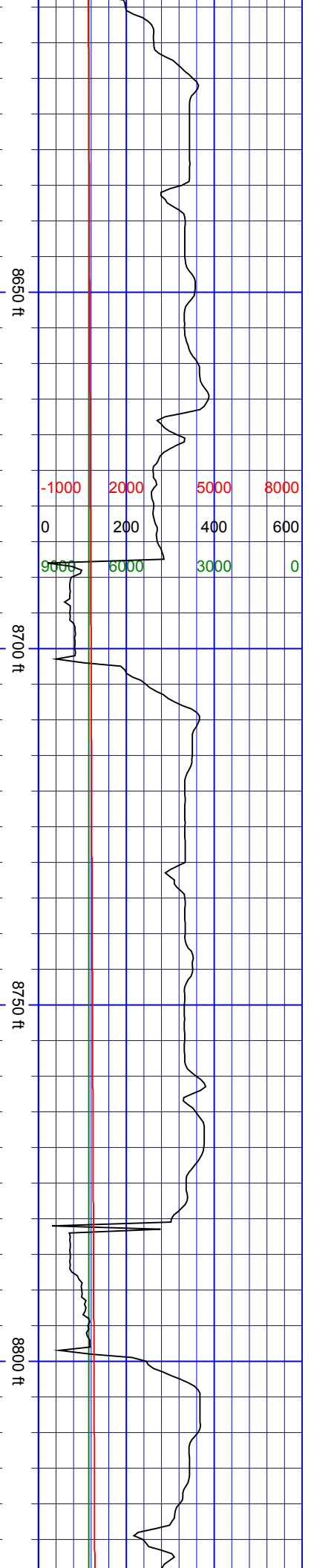


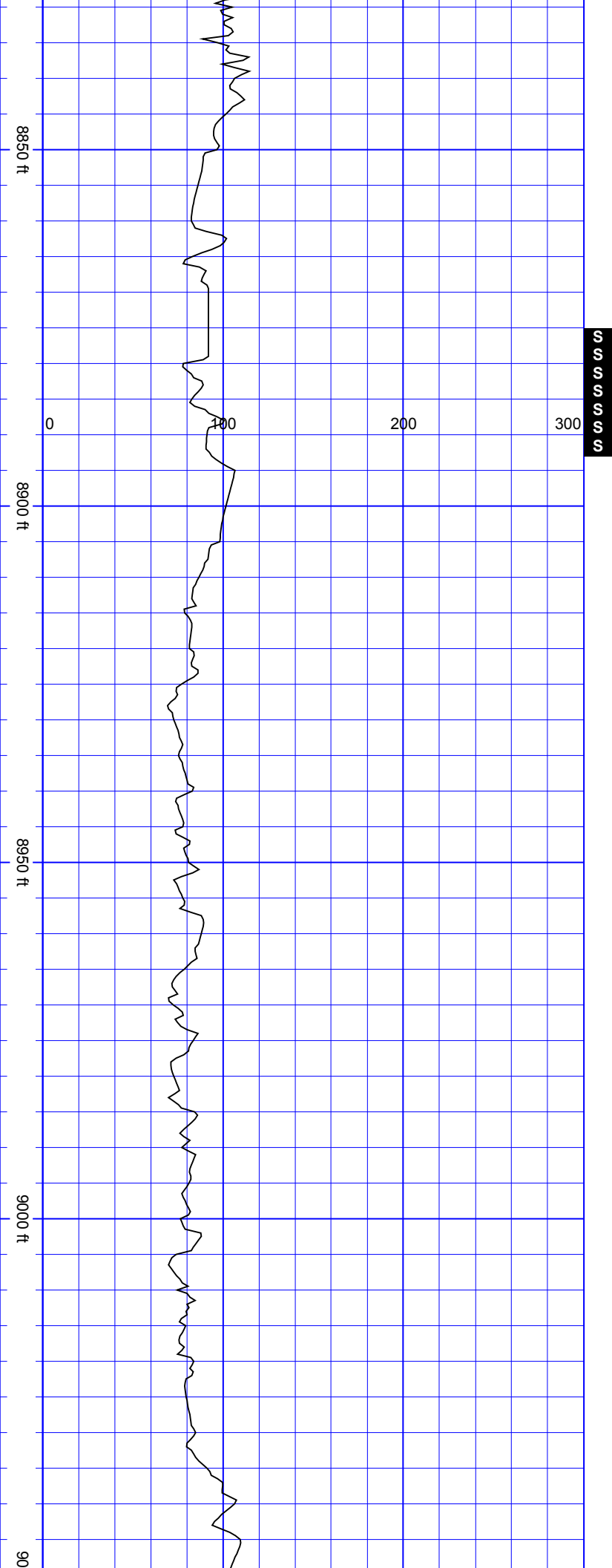


SurveyDepth:8625
TVD:7269.72 Inc:89.47
Azi:358.42
VertSec:728.37

SurveyDepth:8719
TVD:7268.78 Inc:91.67
Azi:358.94
VertSec:822.28

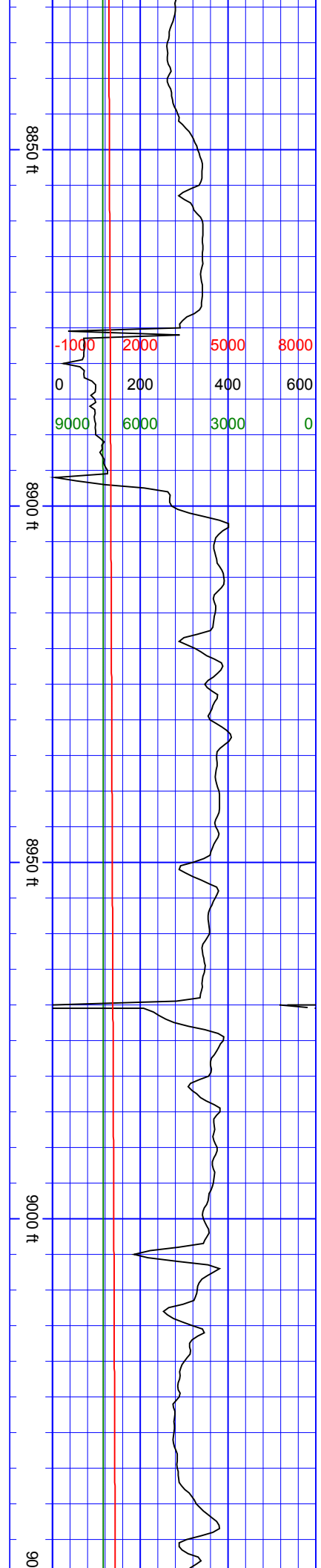
SurveyDepth:8813
TVD:7266.12 Inc:91.58
Azi:0.35 VertSec:916.21

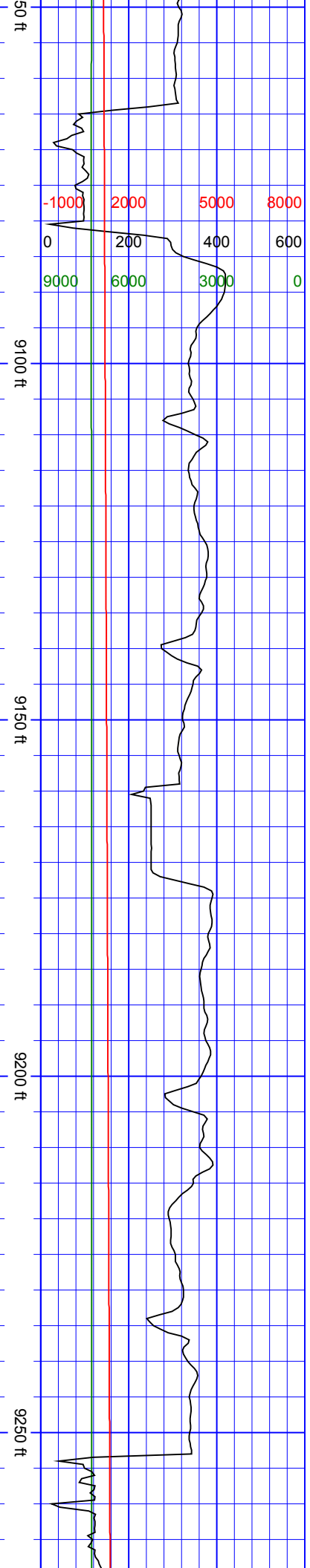




SurveyDepth:8907
TVD:7264.67 Inc:90.18
Azi:1.76
VertSec:1010.19

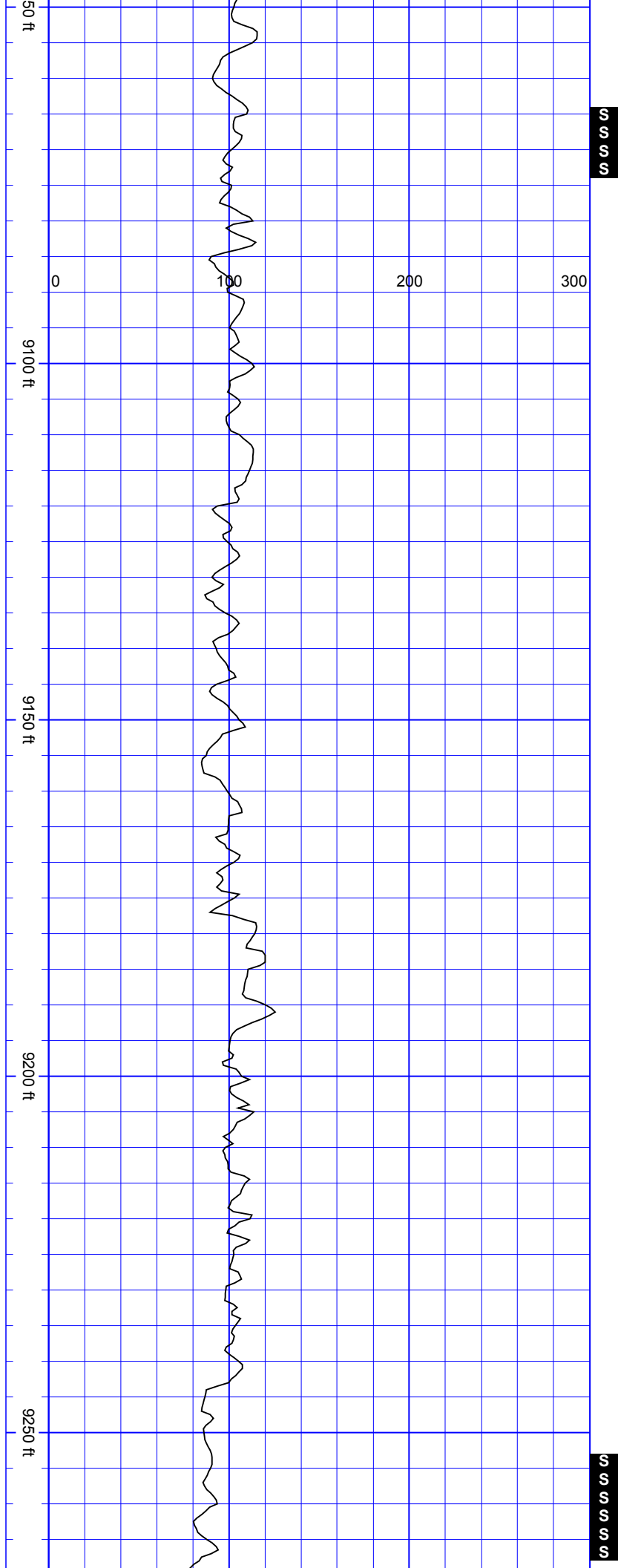
SurveyDepth:9002
TVD:7264.63 Inc:89.87
Azi:2.46
VertSec:1105.18

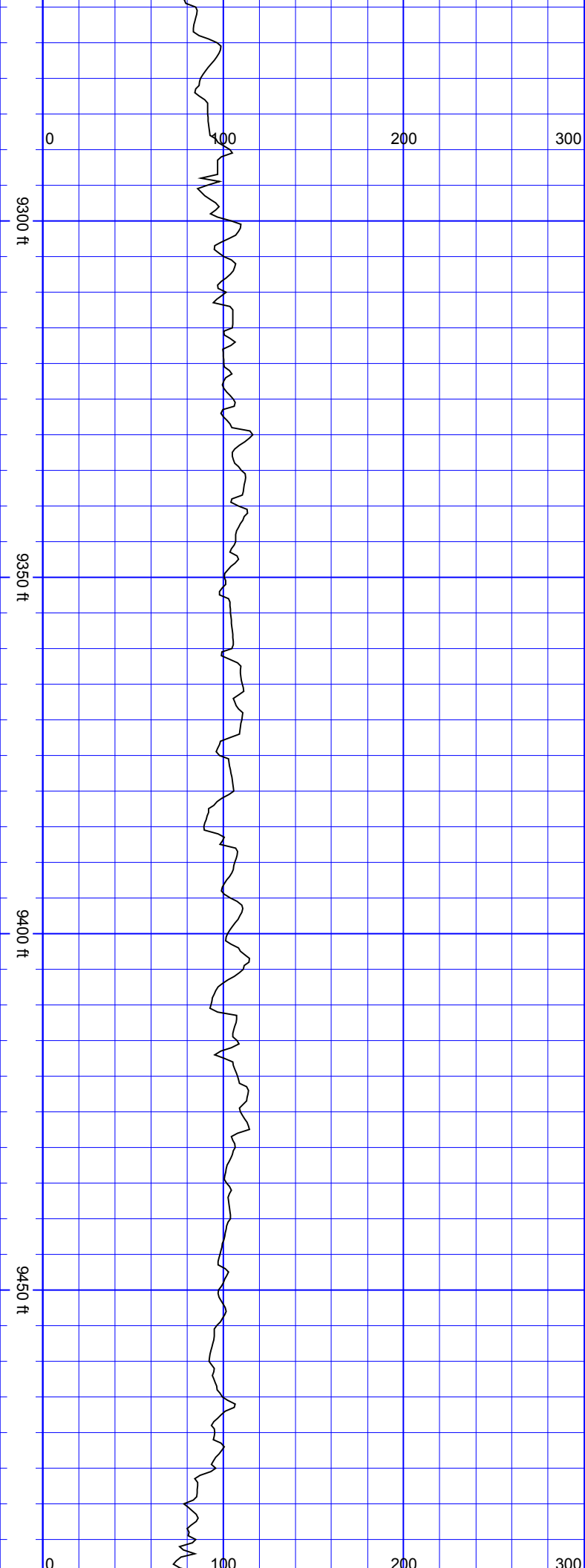




SurveyDepth:9097
TVD:7265.03 Inc:89.65
Azi:0.53
VertSec:1200.17

SurveyDepth:9191
TVD:7263.77 Inc:91.89
Azi:0.53
VertSec:1294.15

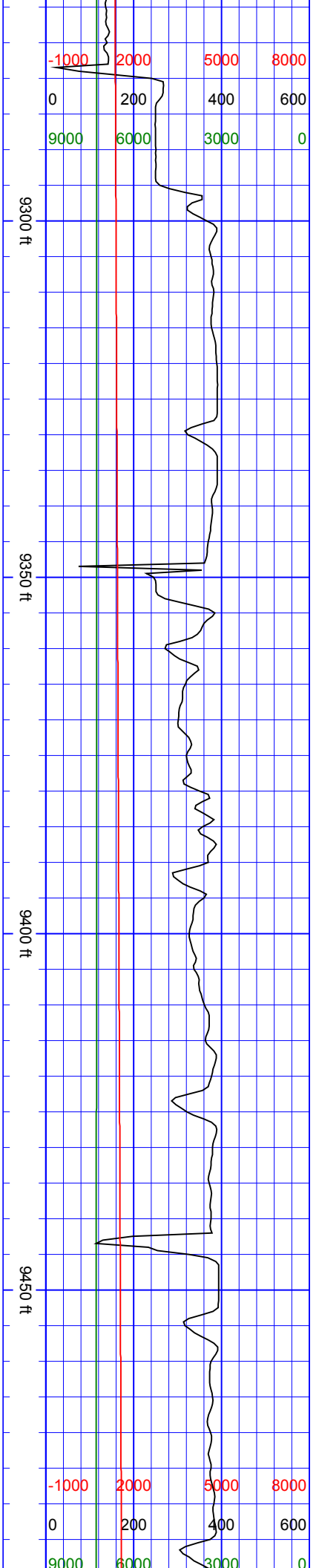


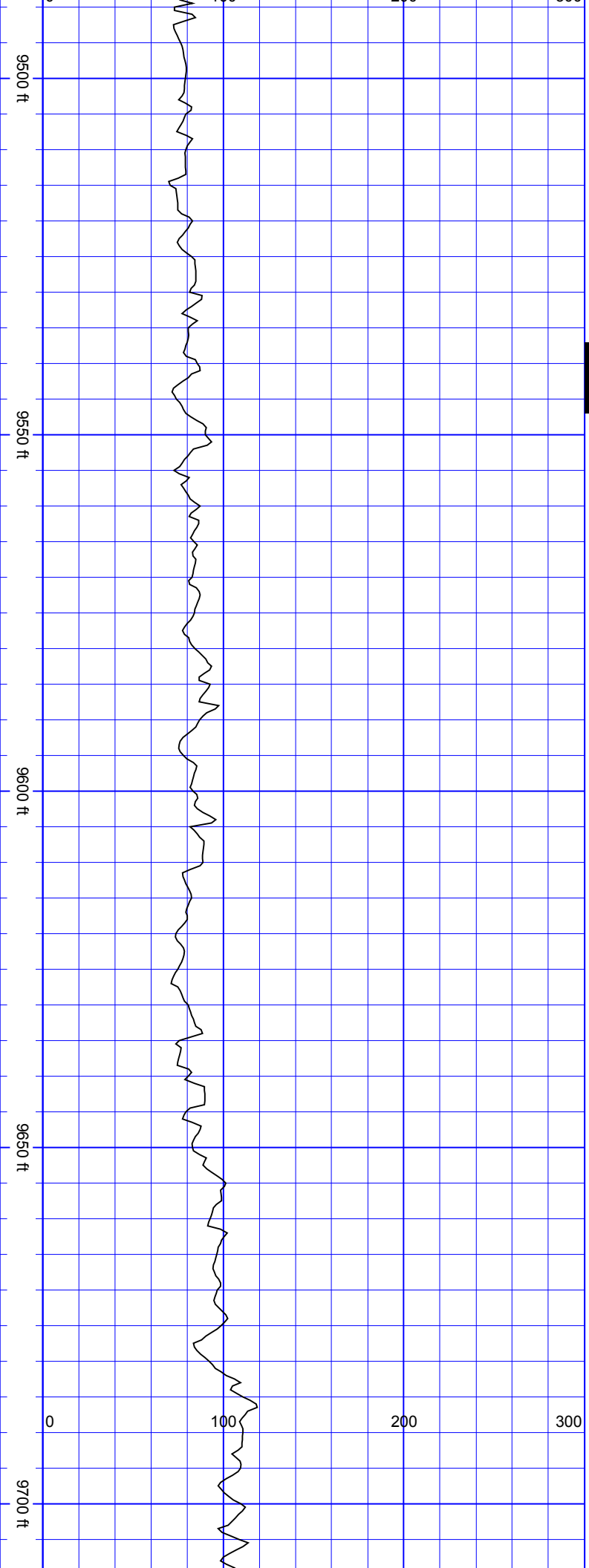


SurveyDepth:9286
TVD:7262.82 Inc:89.25
Azi:358.68
VertSec:1389.1

SurveyDepth:9380
TVD:7264.27 Inc:88.99
Azi:358.5 VertSec:1483

SurveyDepth:9457
TVD:7265.3 Inc:89.47
Azi:358.5
VertSec:1559.91

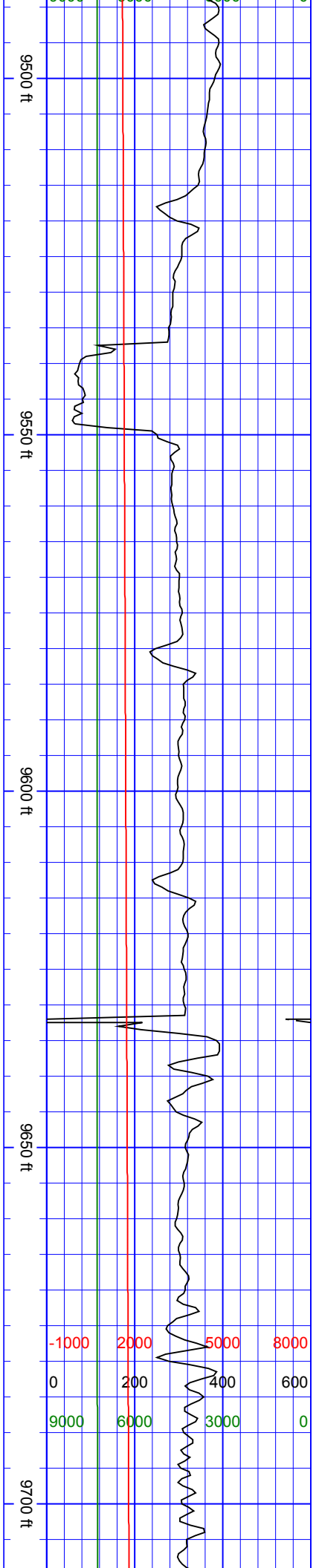


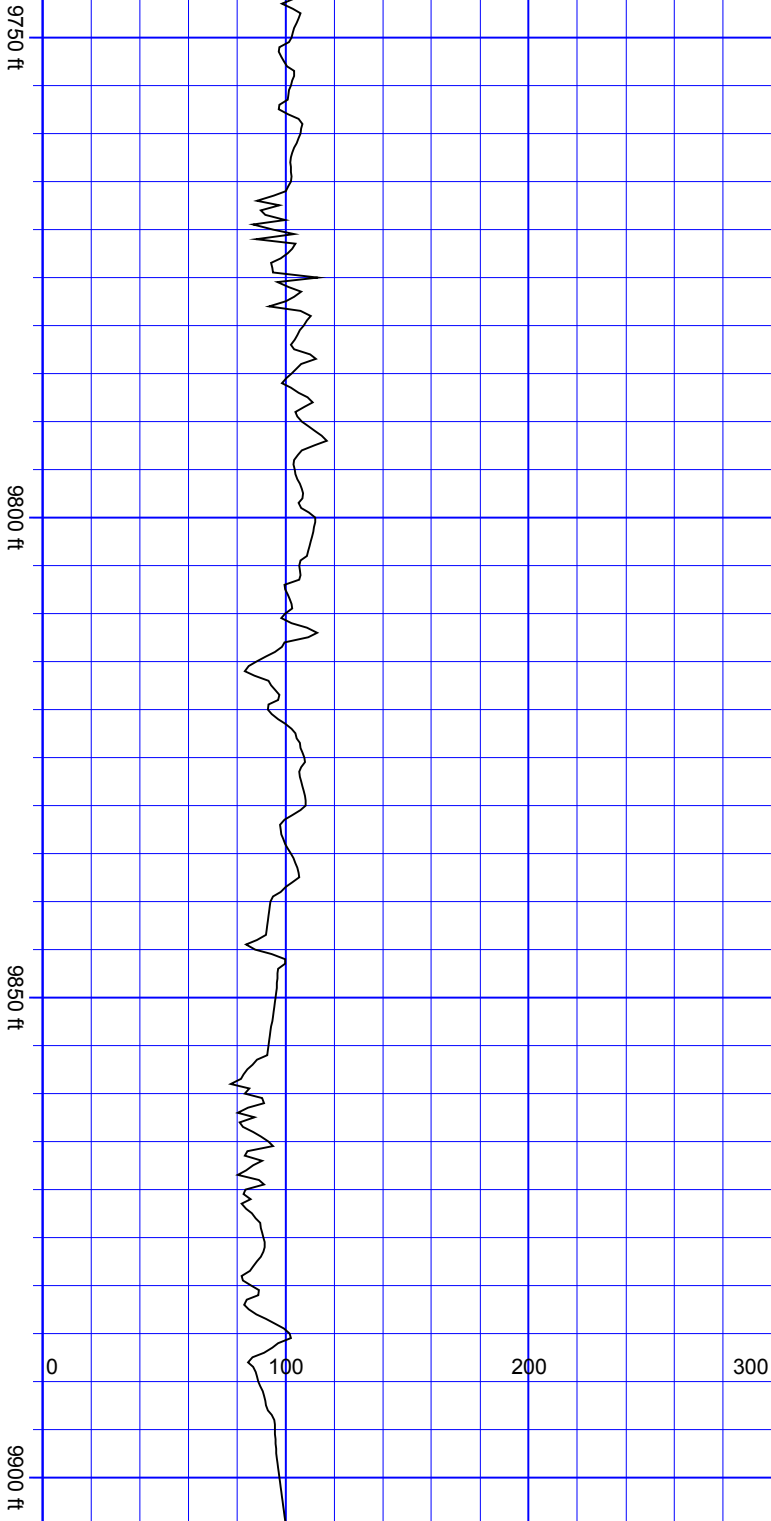


SSSS

SurveyDepth:9569
TVD:7265.73 Inc:90.09
Azi:359.47
VertSec:1671.83

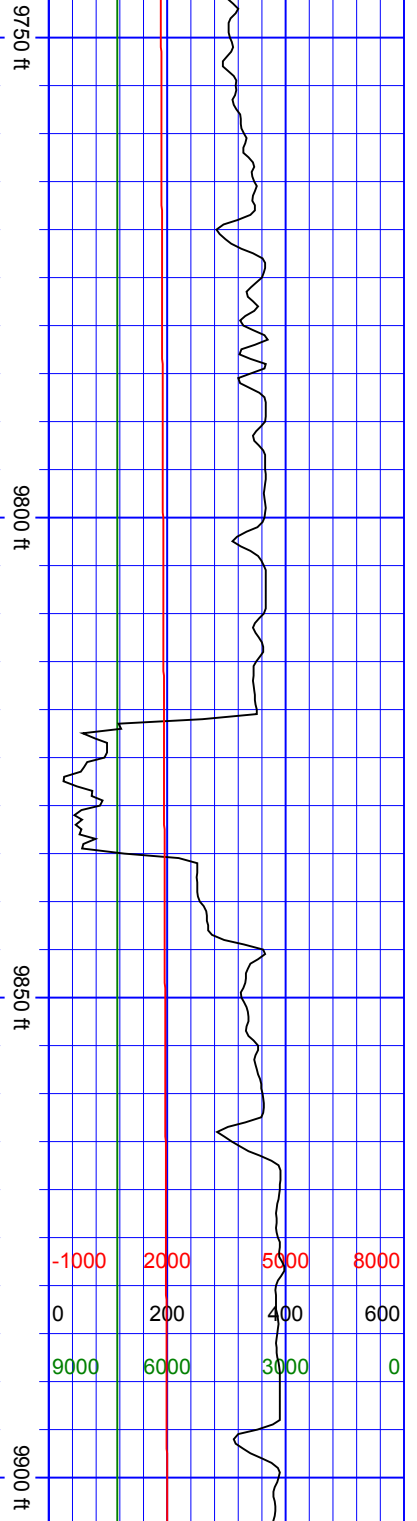
SurveyDepth:9664
TVD:7265.14 Inc:90.62
Azi:359.65
VertSec:1766.8

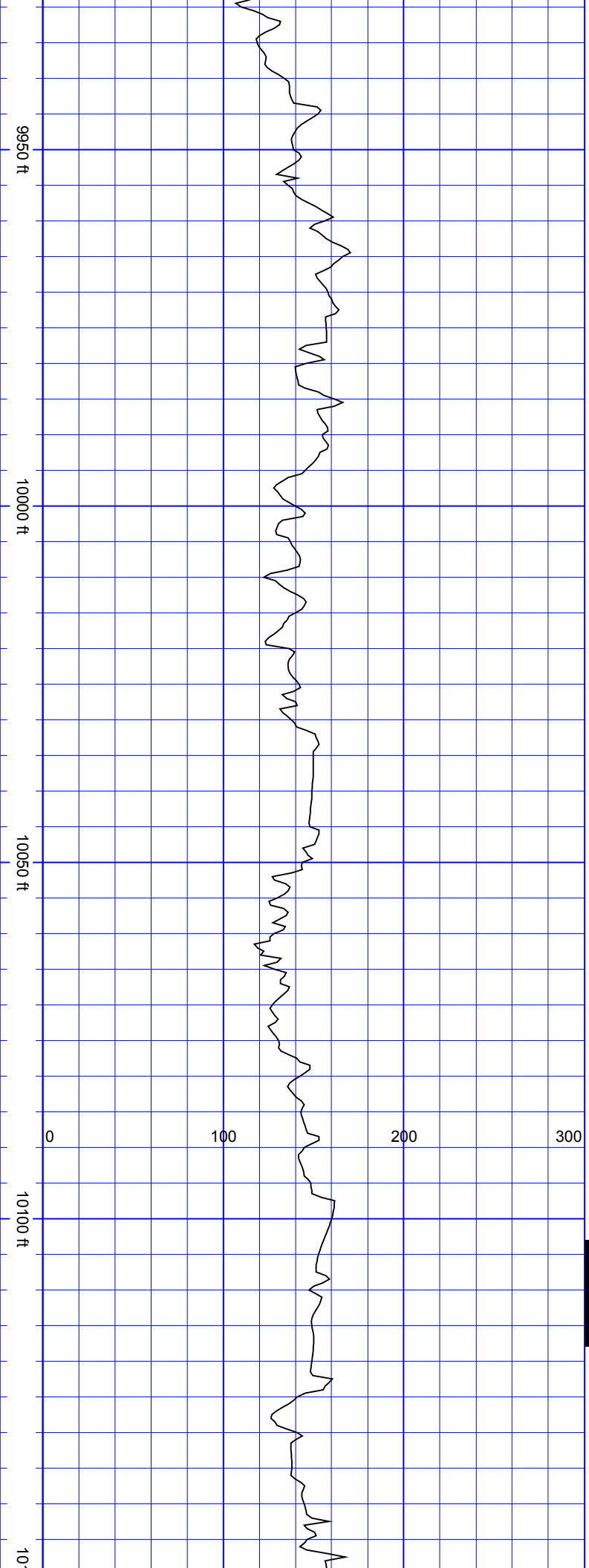




SurveyDepth:9758
TVD:7263.98 Inc:90.79
Azi:358.86
VertSec:1860.74

SurveyDepth:9852
TVD:7262.65 Inc:90.84
Azi:359.56
VertSec:1954.68



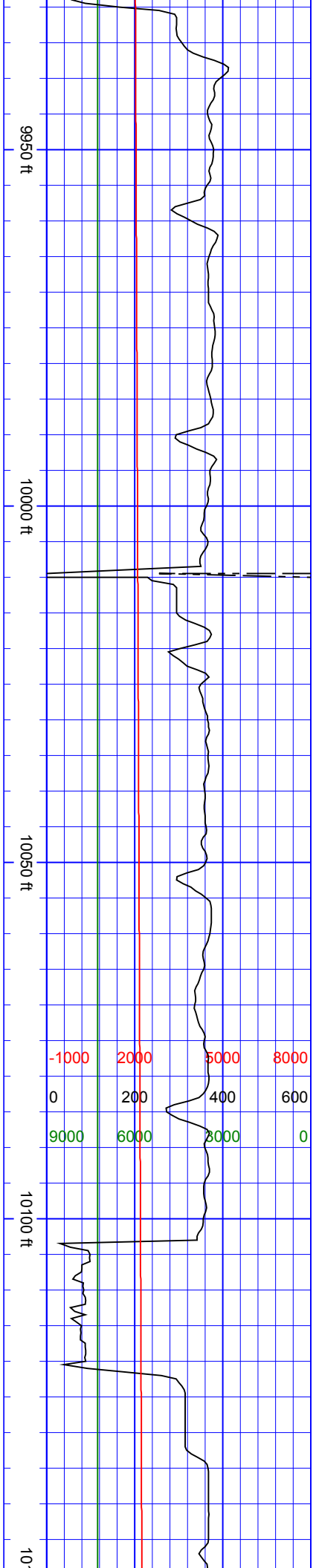


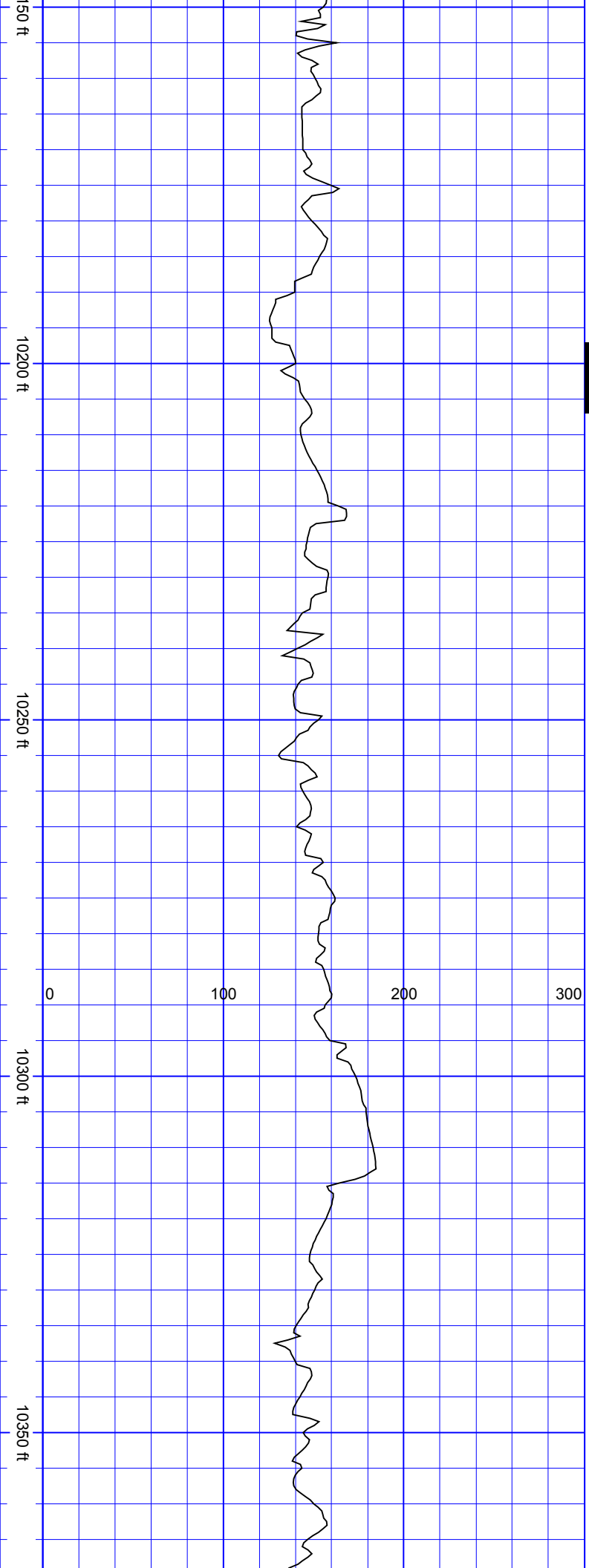
SurveyDepth:9946
TVD:7261.16 Inc:90.97
Azi:0.44
VertSec:2048.65

SurveyDepth:10041
TVD:7258.87 Inc:91.8
Azi:0.53
VertSec:2143.61

S
S
S
S
S
S

SurveyDepth:10135
TVD:7257.06 Inc:90.4
Azi:0.09
VertSec:2237.59

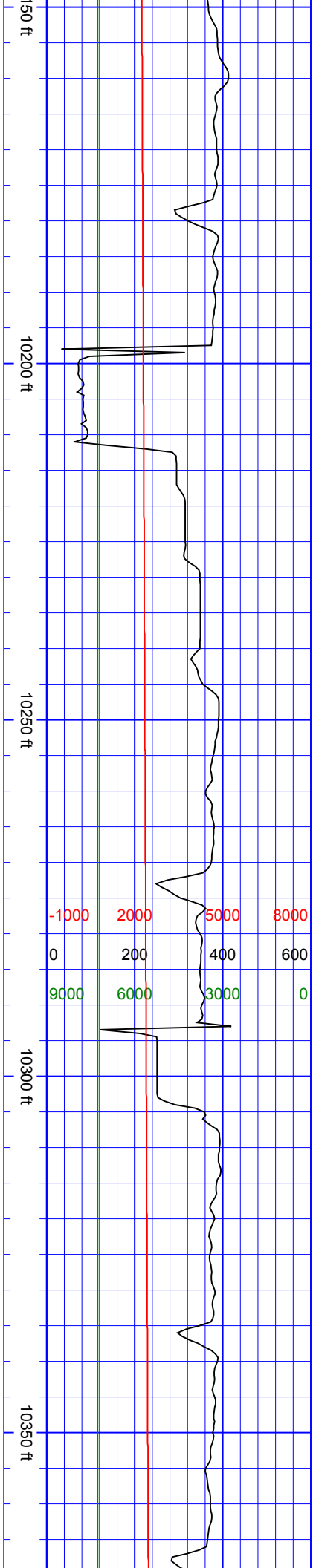


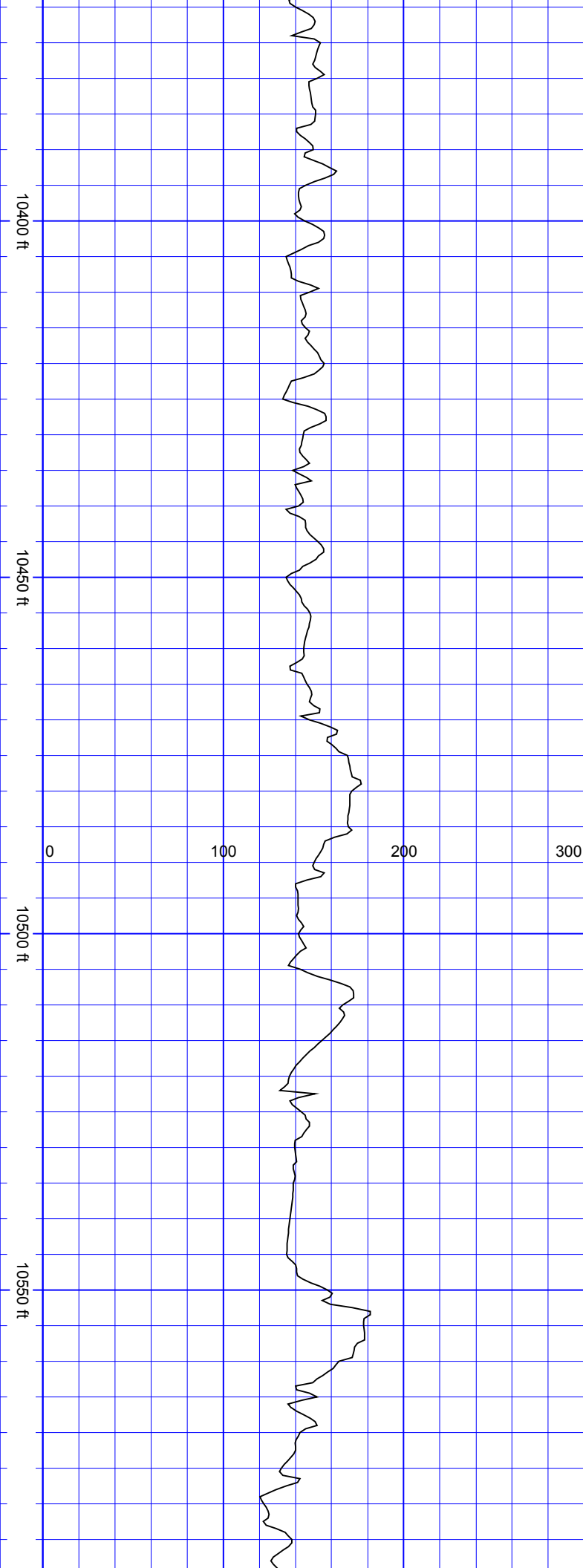


SSSS

SurveyDepth:10230
TVD:7258.04 Inc:88.42
Azi:0.7 VertSec:2332.57

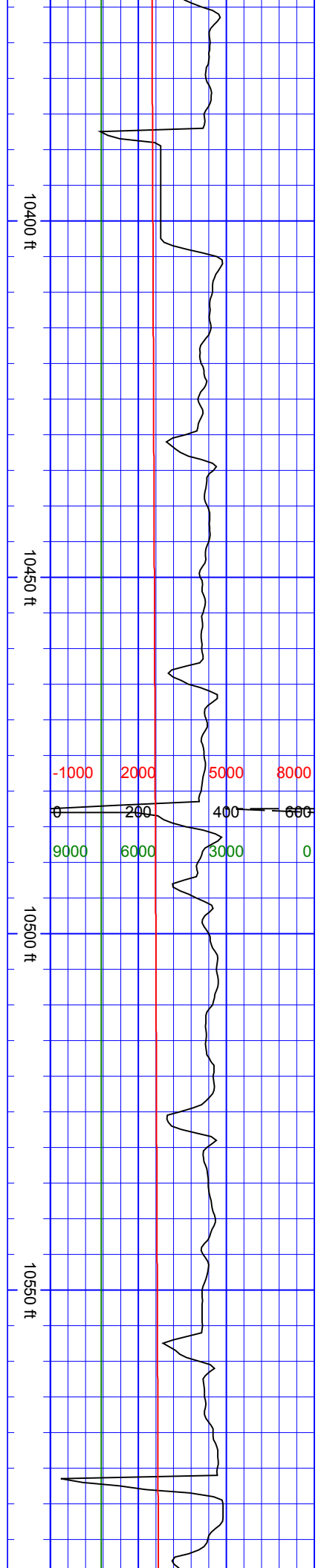
SurveyDepth:10325
TVD:7260 Inc:89.21
Azi:0.44
VertSec:2427.54

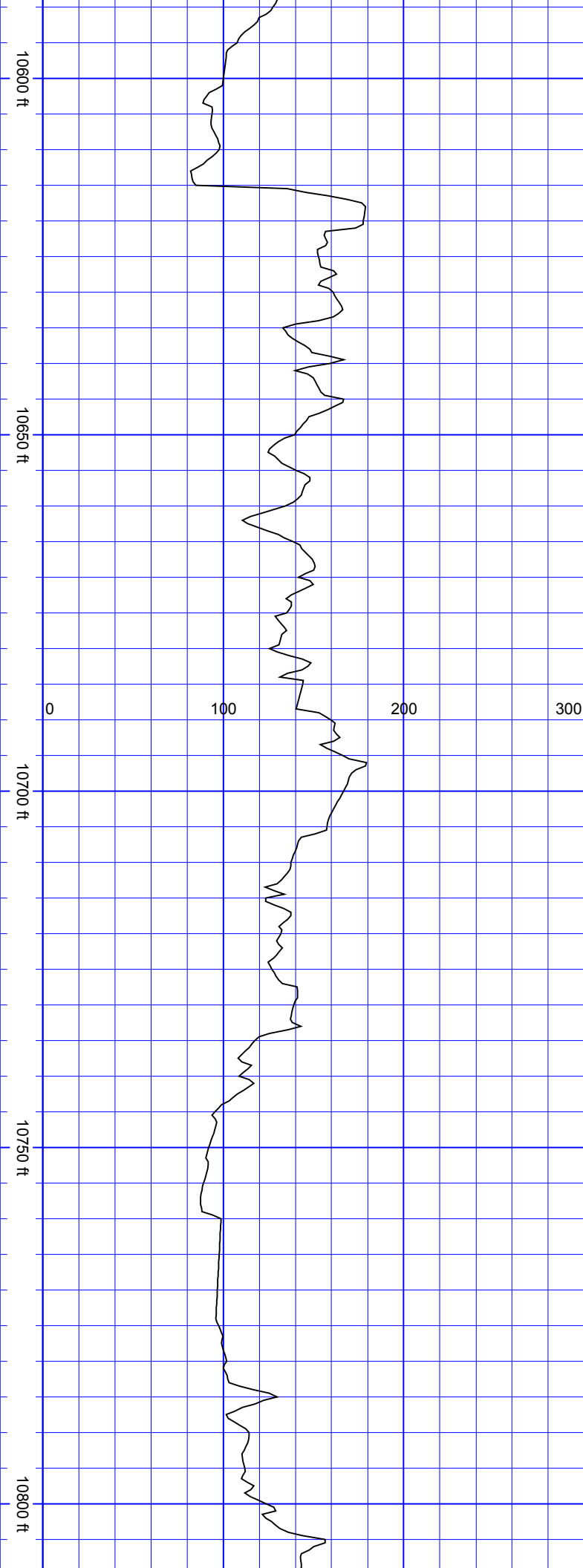




SurveyDepth:10419
TVD:7260.11 Inc:90.66
Azi:0.79
VertSec:2521.54

SurveyDepth:10514
TVD:7259.13 Inc:90.53
Azi:0.79
VertSec:2616.53

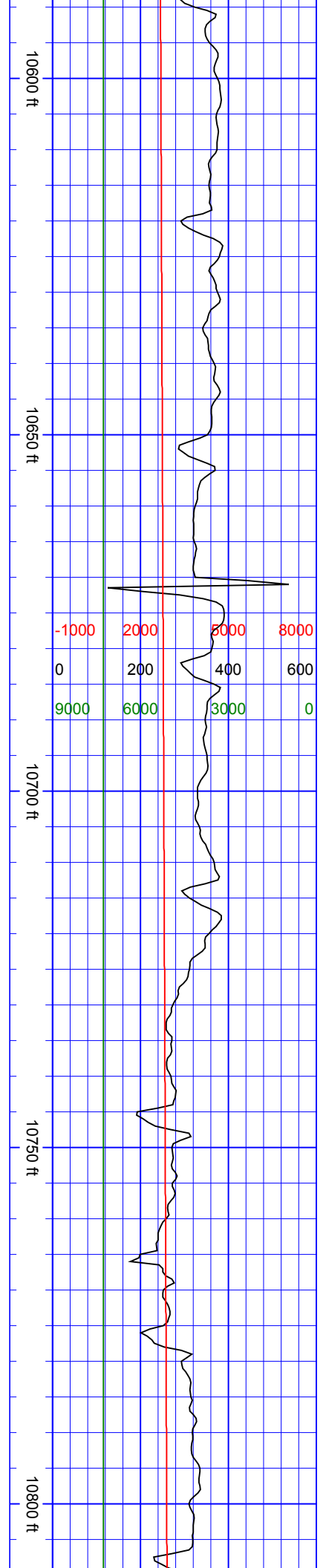


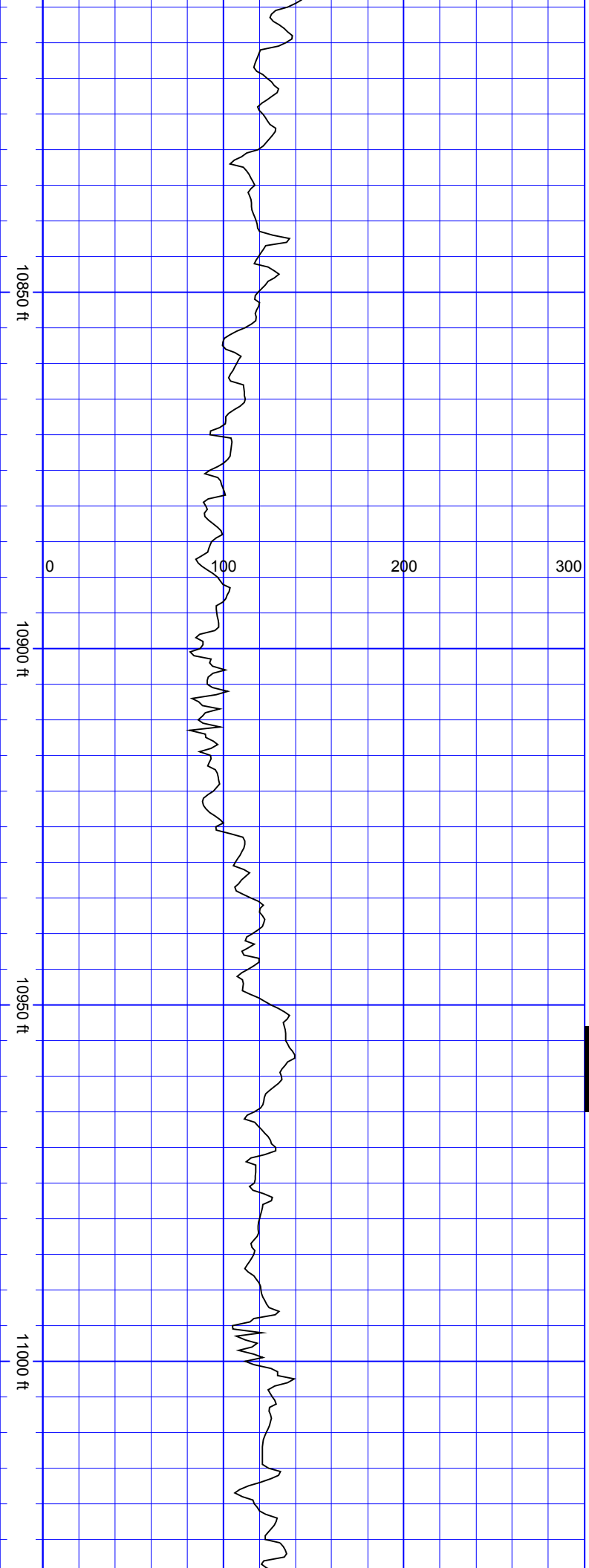


SurveyDepth:10608
TVD:7258.12 Inc:90.7
Azi:0.09
VertSec:2710.52

SurveyDepth:10702
TVD:7256.61 Inc:91.14
Azi:359.91
VertSec:2804.49

SurveyDepth:10797
TVD:7254.72 Inc:91.14
Azi:359.56
VertSec:2899.44

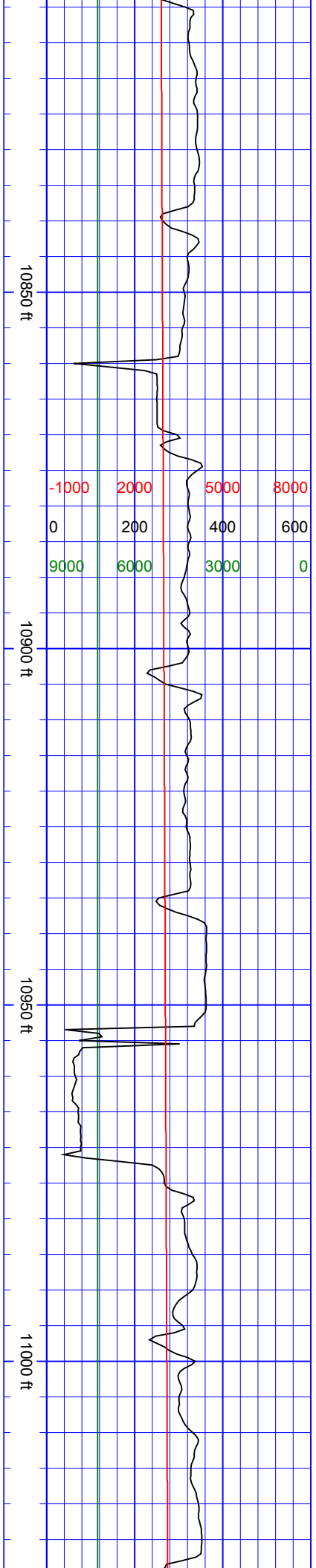


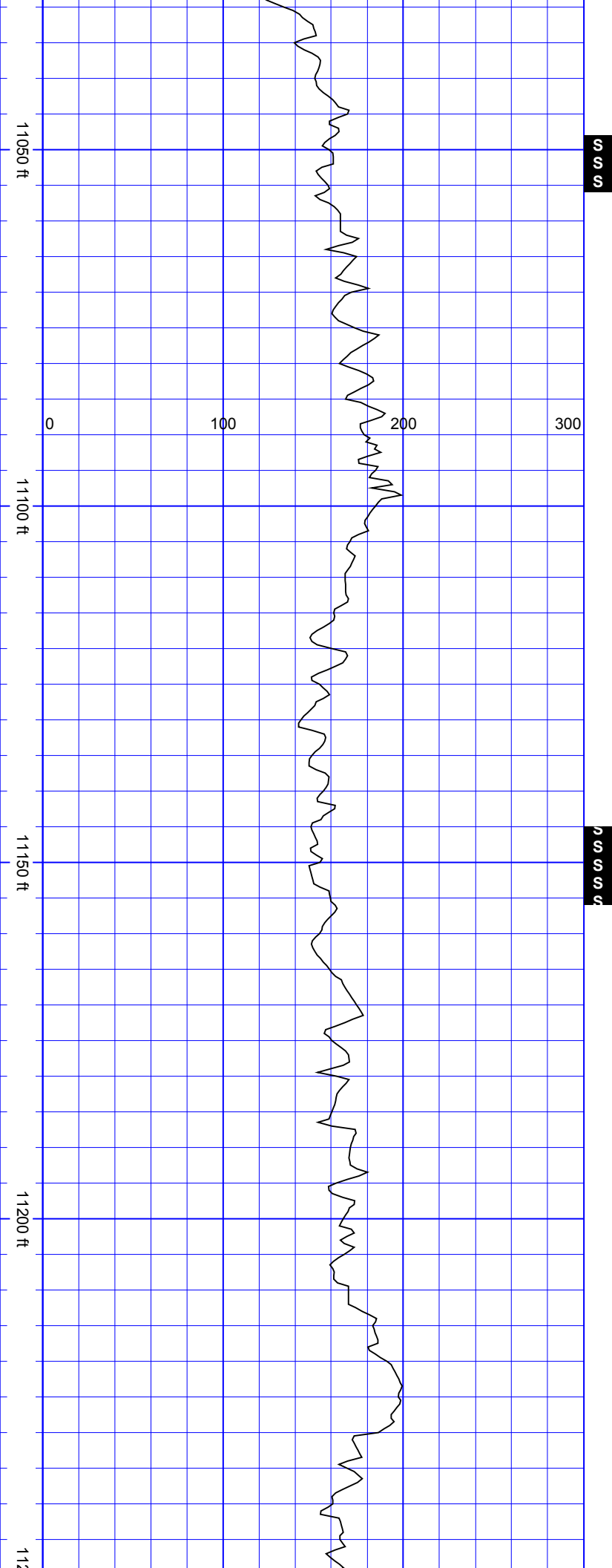


SSSS

SurveyDepth:10891
TVD:7252.56 Inc:91.49
Azi:359.3
VertSec:2993.38

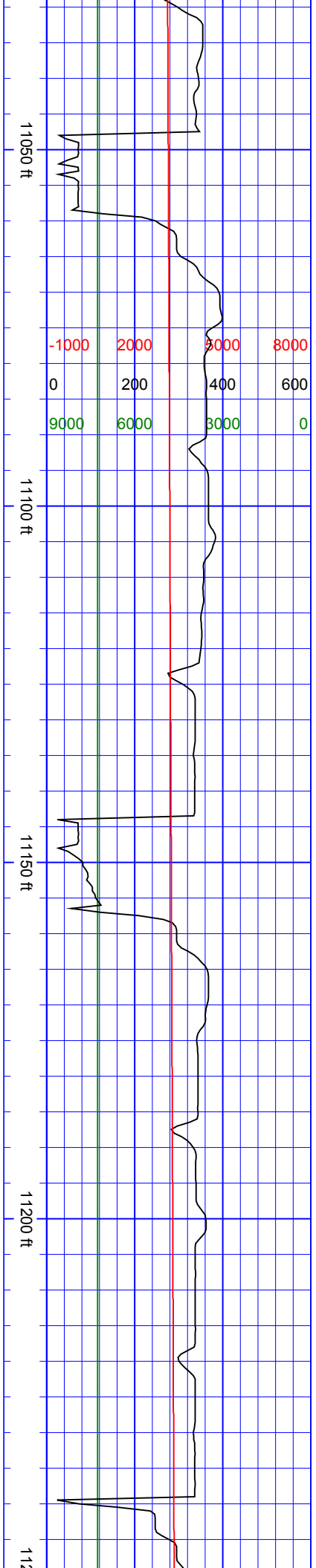
SurveyDepth:10986
TVD:7251.14 Inc:90.22
Azi:0.7 VertSec:3088.34

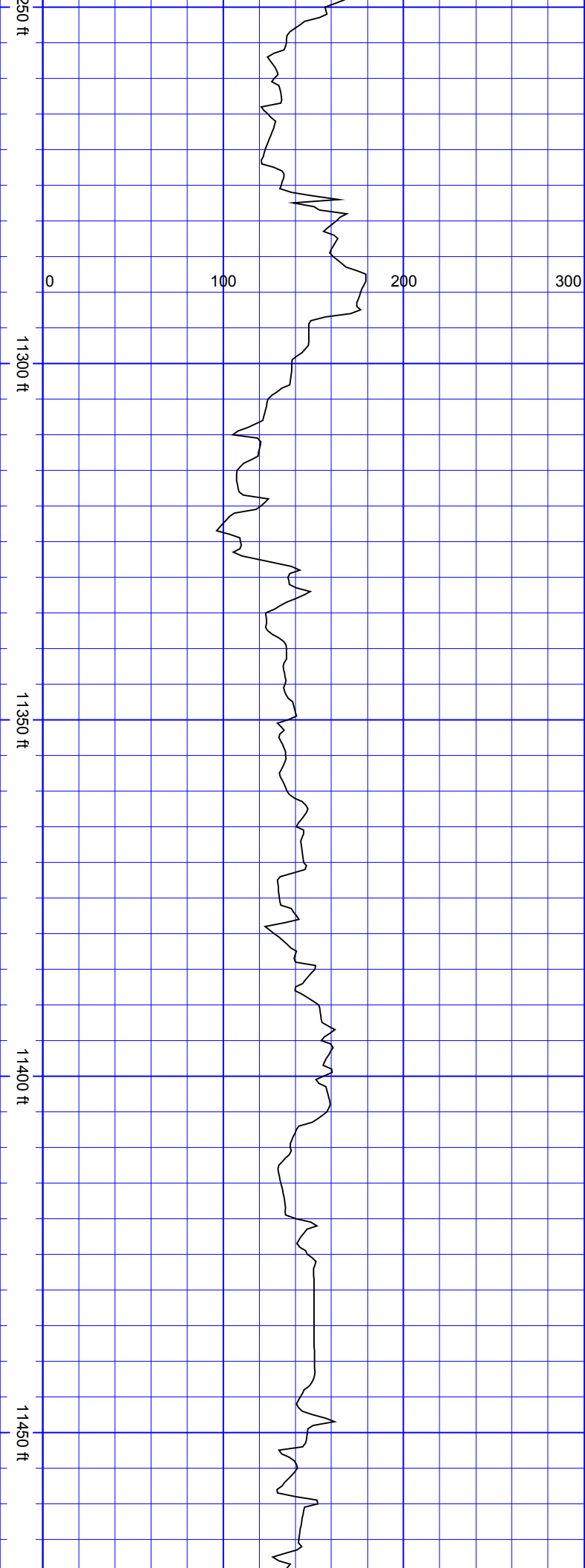




SurveyDepth:11080
TVD:7250.57 Inc:90.48
Azi:1.23
VertSec:3182.34

SurveyDepth:11175
TVD:7251.77 Inc:88.07
Azi:1.41
VertSec:3277.33

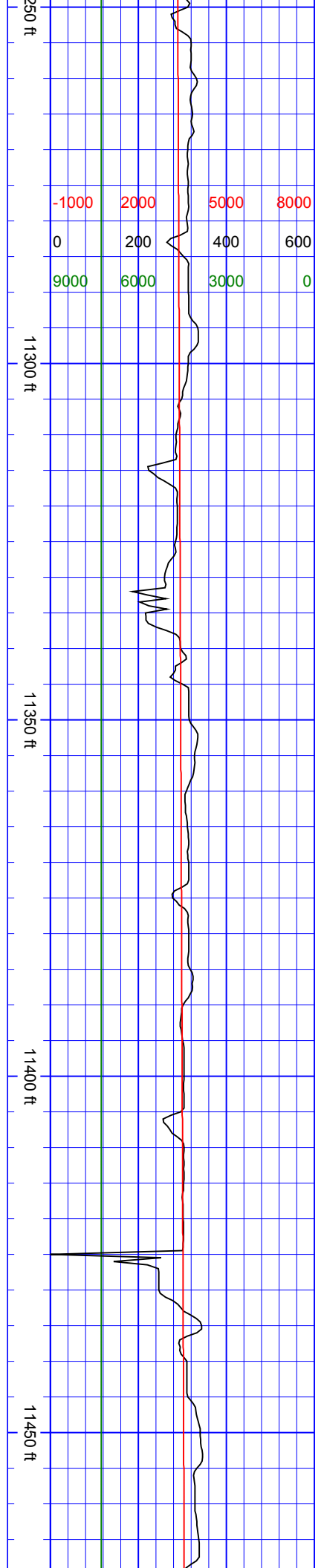


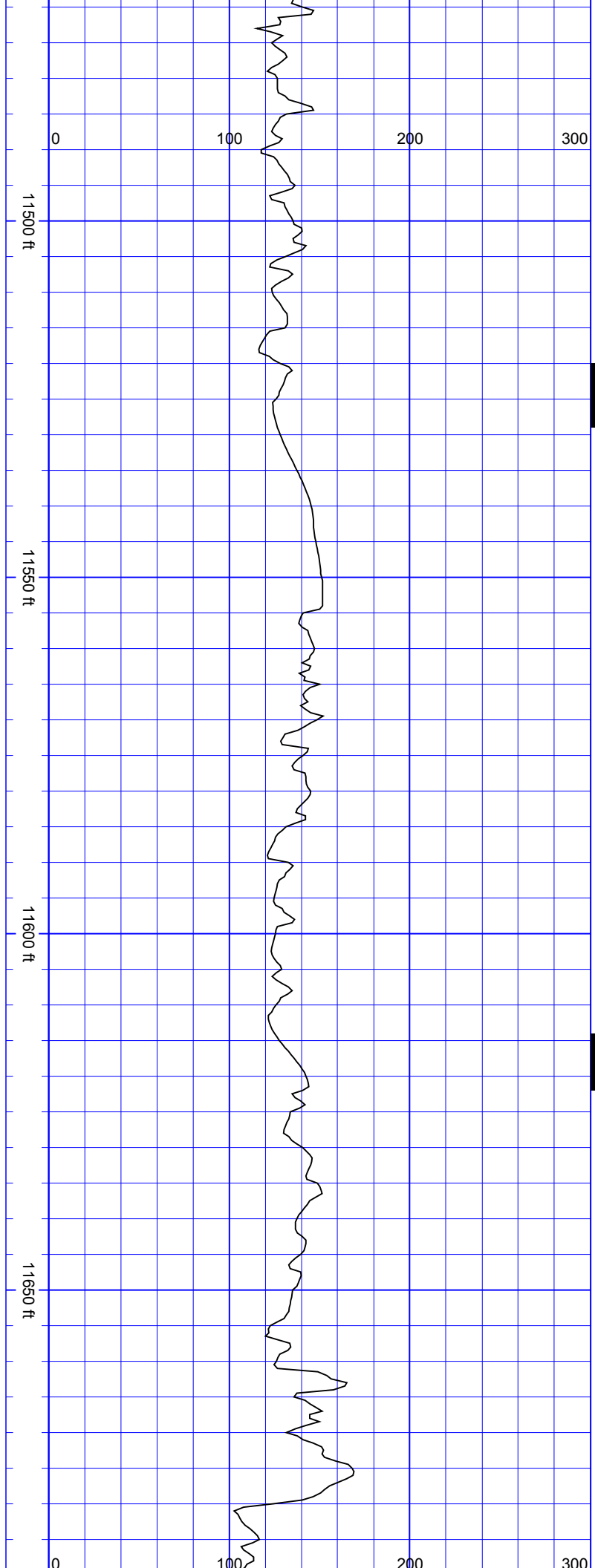


SurveyDepth:11269
TVD:7255.19 Inc:87.76
Azi:0.88
VertSec:3371.26

SurveyDepth:11363
TVD:7258.83 Inc:87.8
Azi:0.09
VertSec:3465.19

SurveyDepth:11458
TVD:7262.91 Inc:87.28
Azi:359.82
VertSec:3560.08



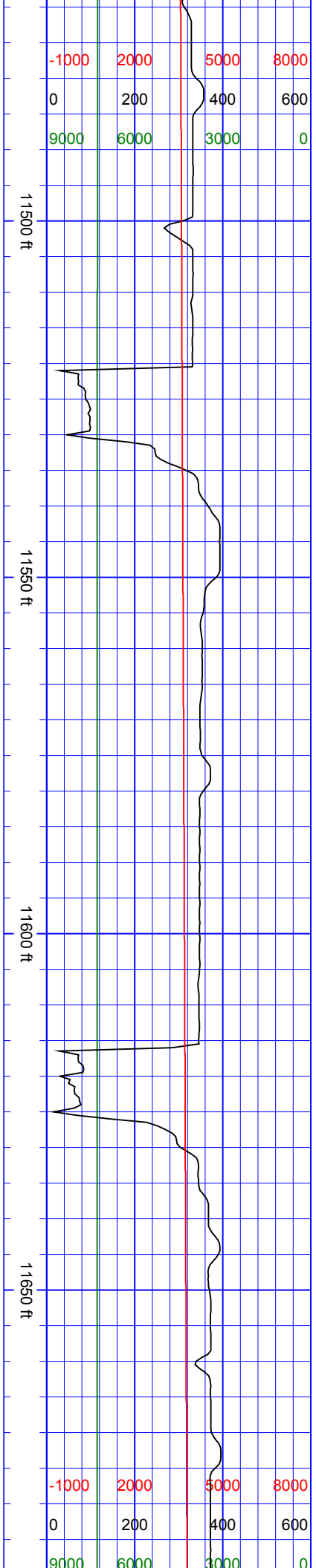


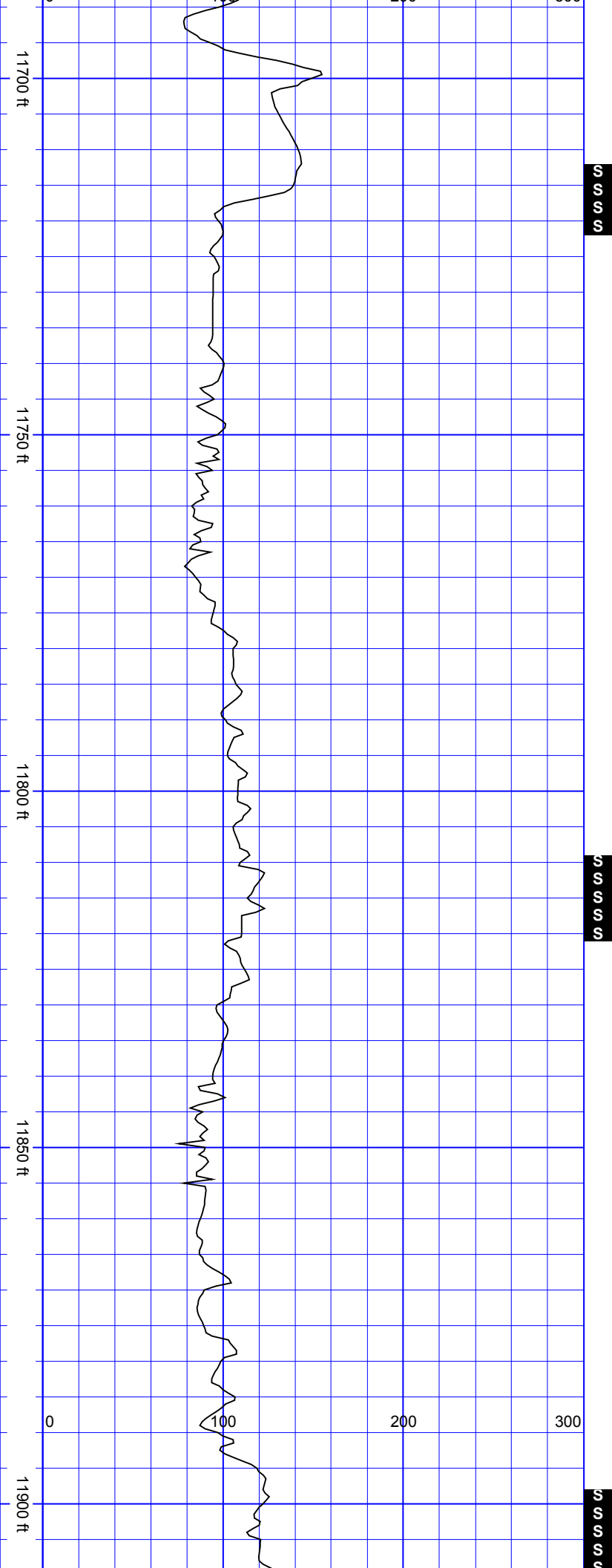
SS

SS

SurveyDepth:11552
TVD:7266.48 Inc:88.37
Azi:0.26 VertSec:3654

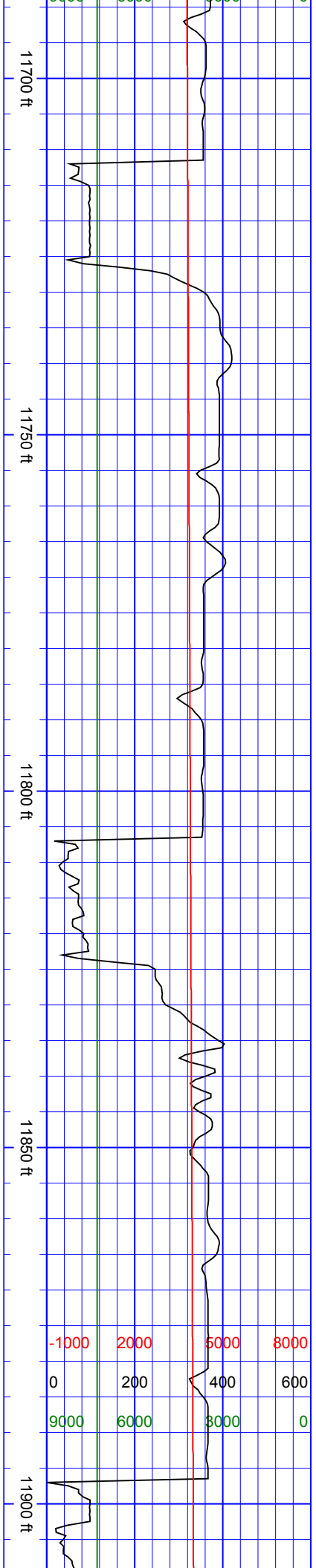
SurveyDepth:11647
TVD:7269.1 Inc:88.46
Azi:359.56
VertSec:3748.94

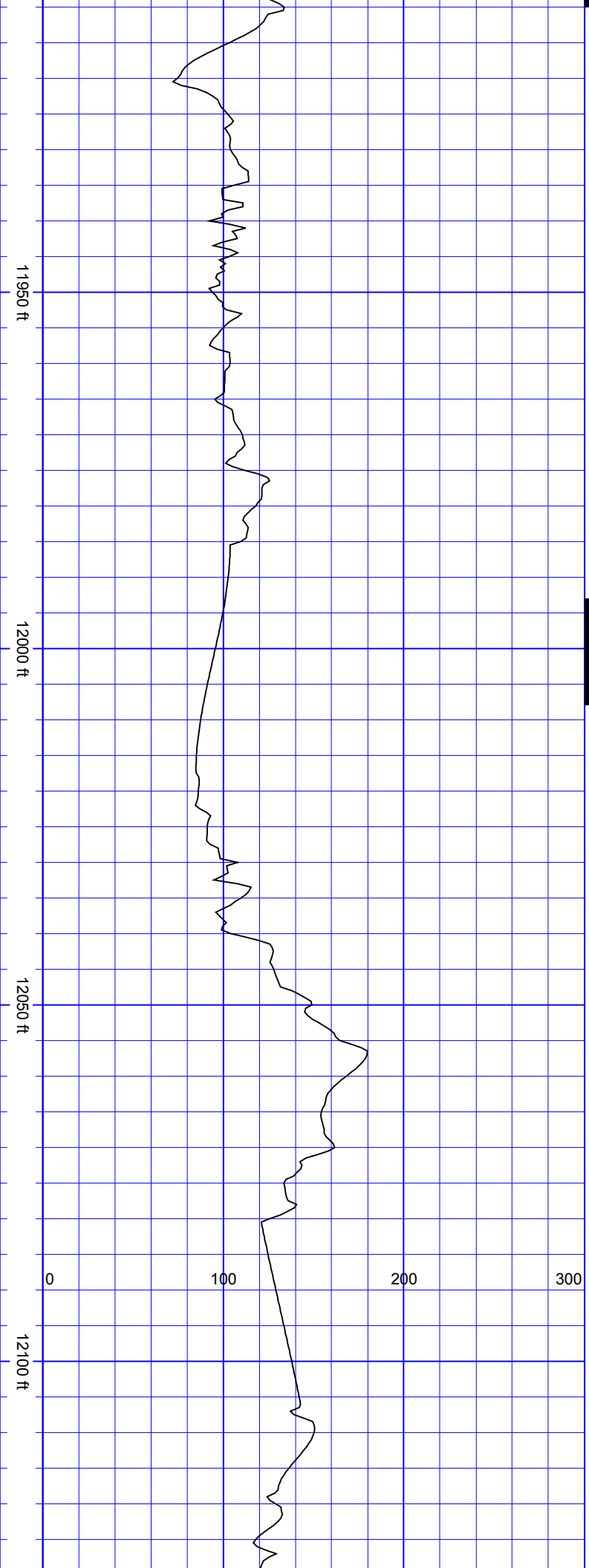




SurveyDepth:11741
TVD:7271.84 Inc:88.2
Azi:0.35
VertSec:3842.88

SurveyDepth:11835
TVD:7273.93 Inc:89.25
Azi:359.74
VertSec:3936.84



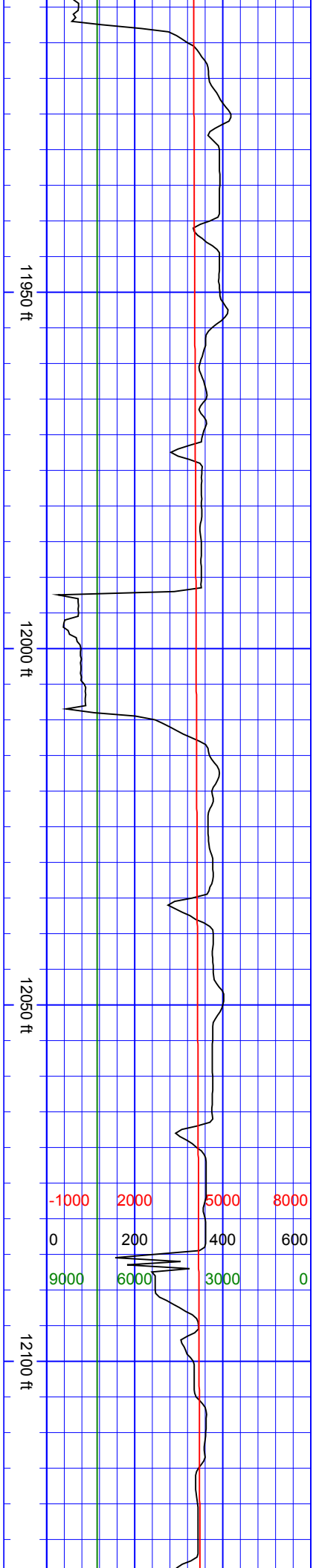


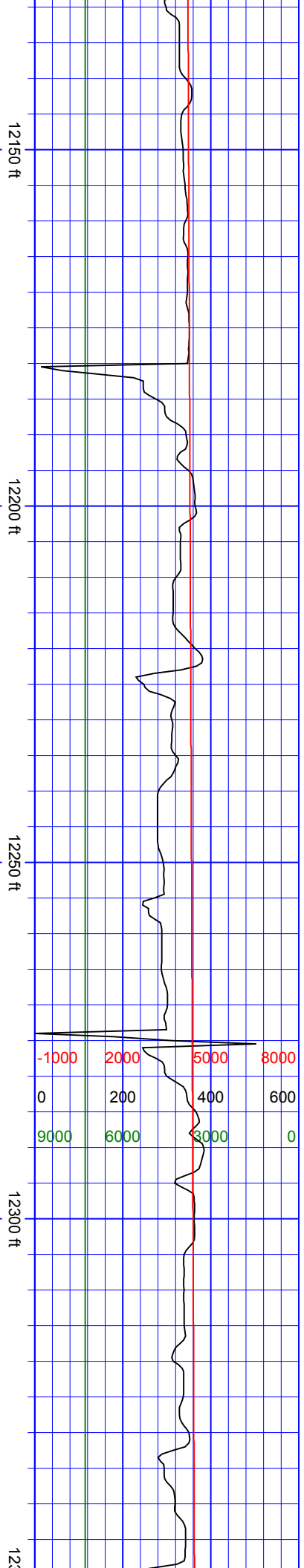
S
S
S
S
S

SurveyDepth:11929
TVD:7274.58 Inc:89.96
Azi:0.26
VertSec:4030.82

SurveyDepth:12023
TVD:7273.71 Inc:91.1
Azi:358.94
VertSec:4124.78

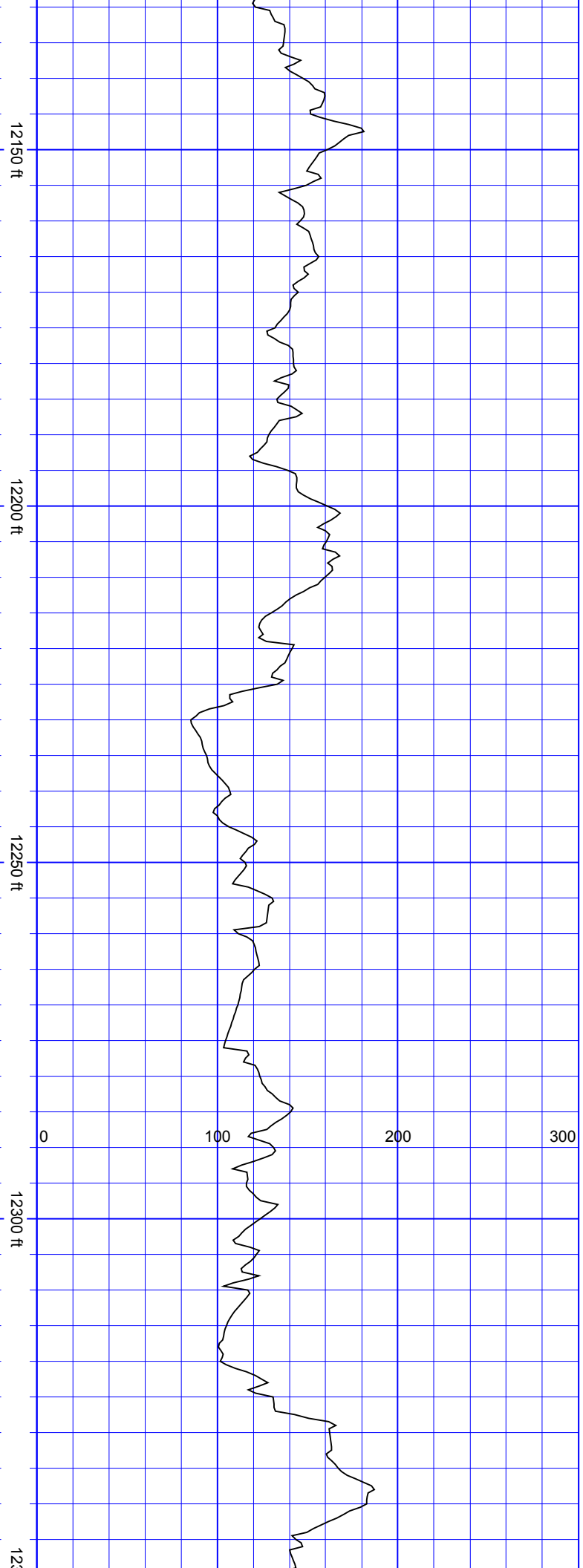
SurveyDepth:12117
TVD:7271.83 Inc:91.19
Azi:358.77
VertSec:4218.69





SurveyDepth:12212
TVD:7269.8 Inc:91.27
Azi:358.33
VertSec:4313.57

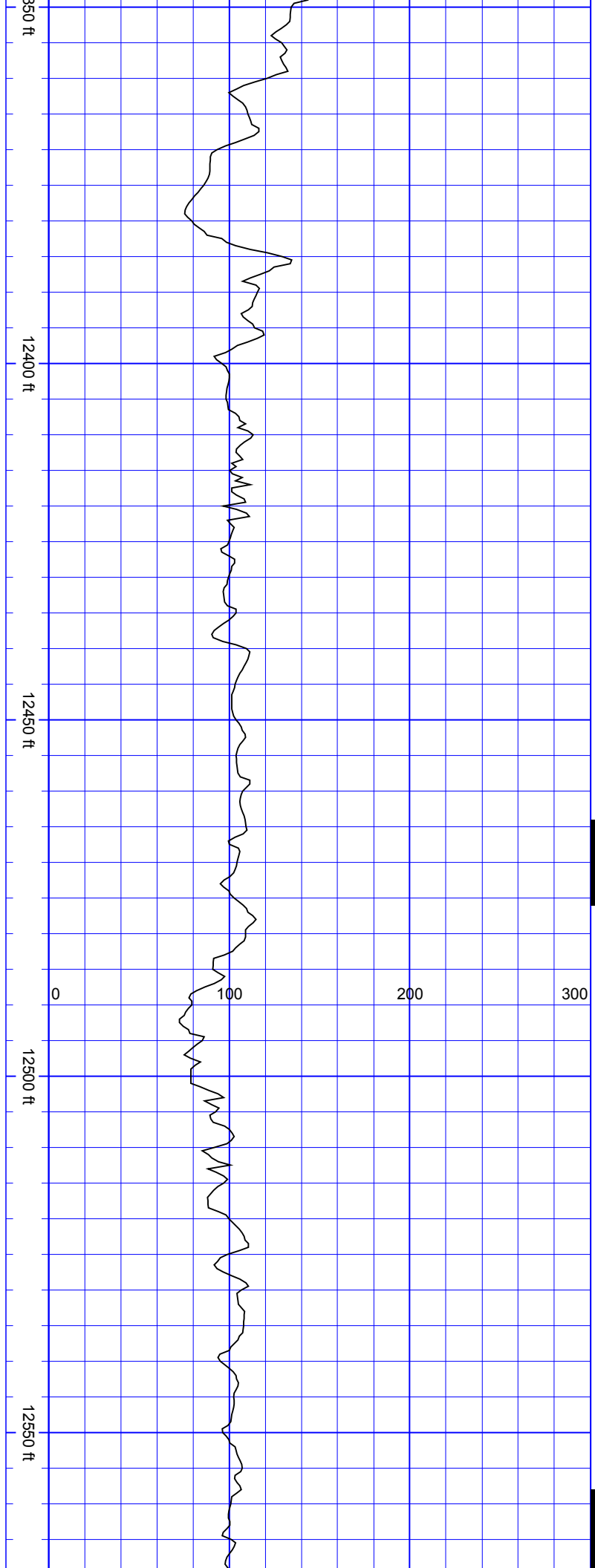
SurveyDepth:12306
TVD:7267.2 Inc:91.89
Azi:357.63
VertSec:4407.39

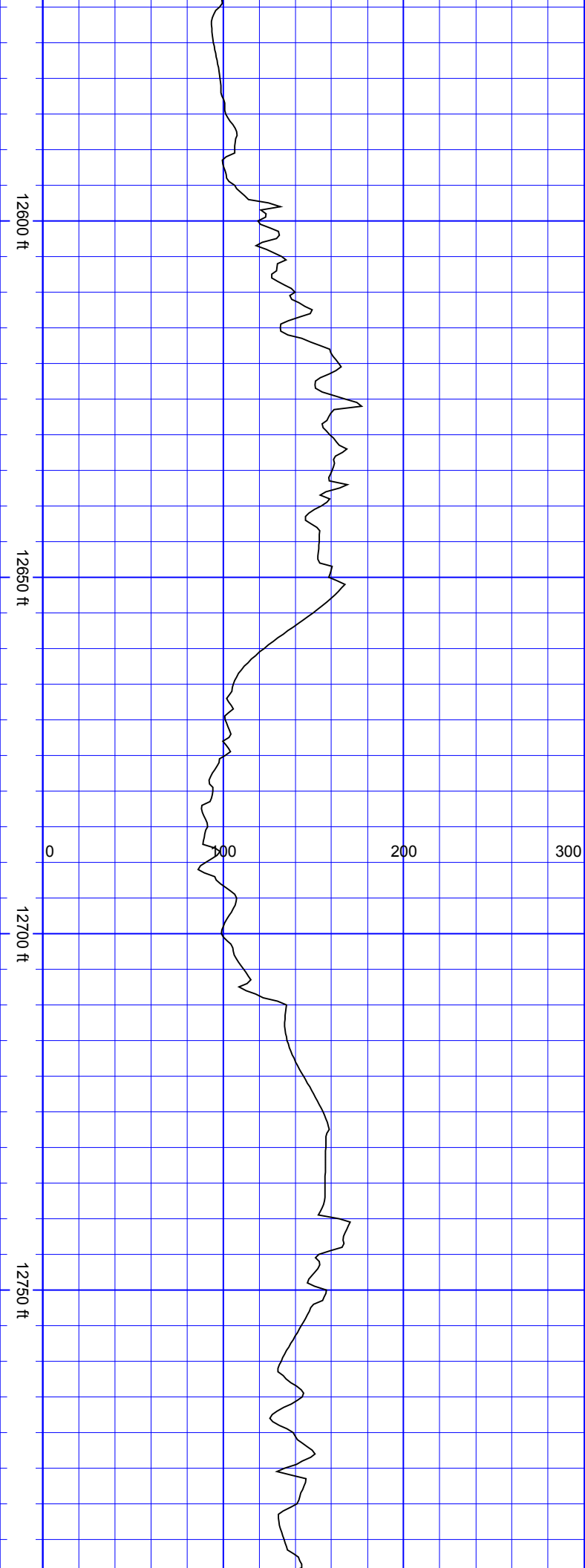




SurveyDepth:12400
TVD:7263.85 Inc:92.2
Azi:357.45
VertSec:4501.15

SurveyDepth:12494
TVD:7260.82 Inc:91.49
Azi:359.56 VertSec:4595

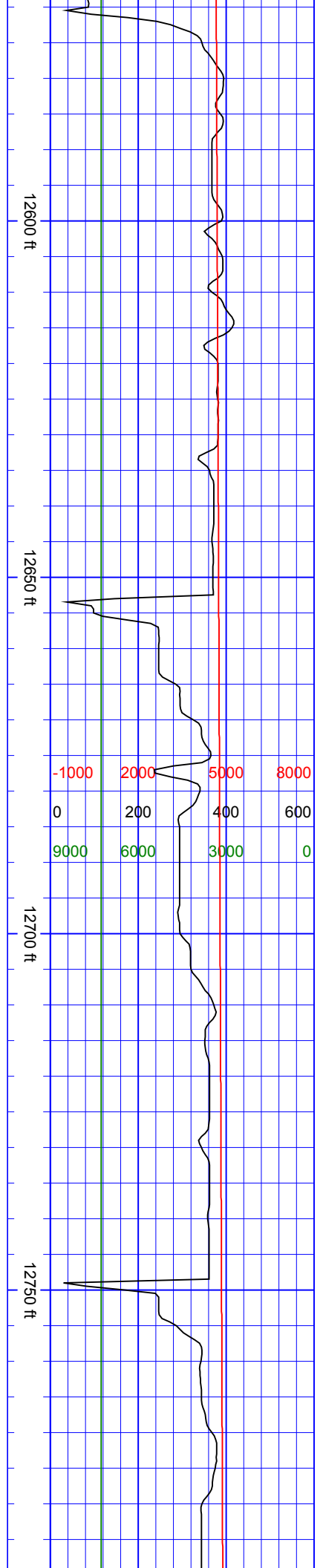


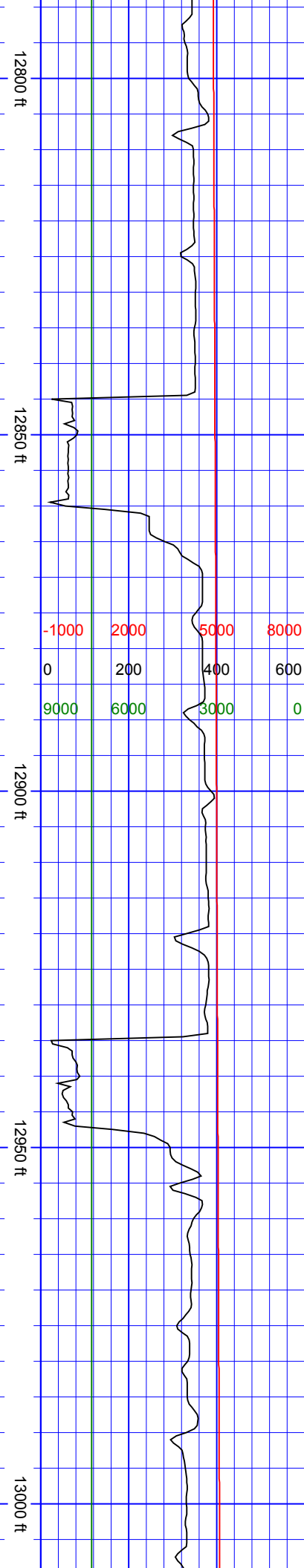


SurveyDepth:12589
TVD:7259.44 Inc:90.18
Azi:359.3
VertSec:4689.95

SurveyDepth:12683
TVD:7258.86 Inc:90.53
Azi:358.94
VertSec:4783.89

SurveyDepth:12778
TVD:7257.65 Inc:90.92
Azi:358.15
VertSec:4878.79



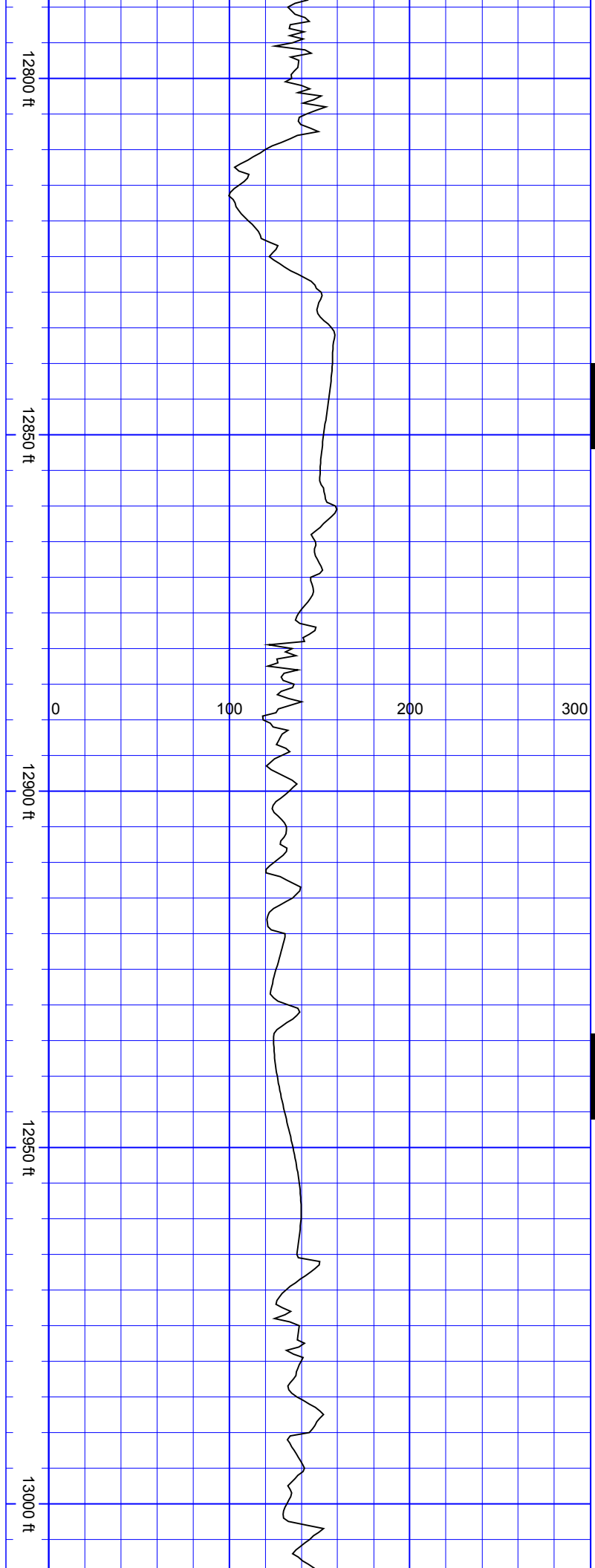


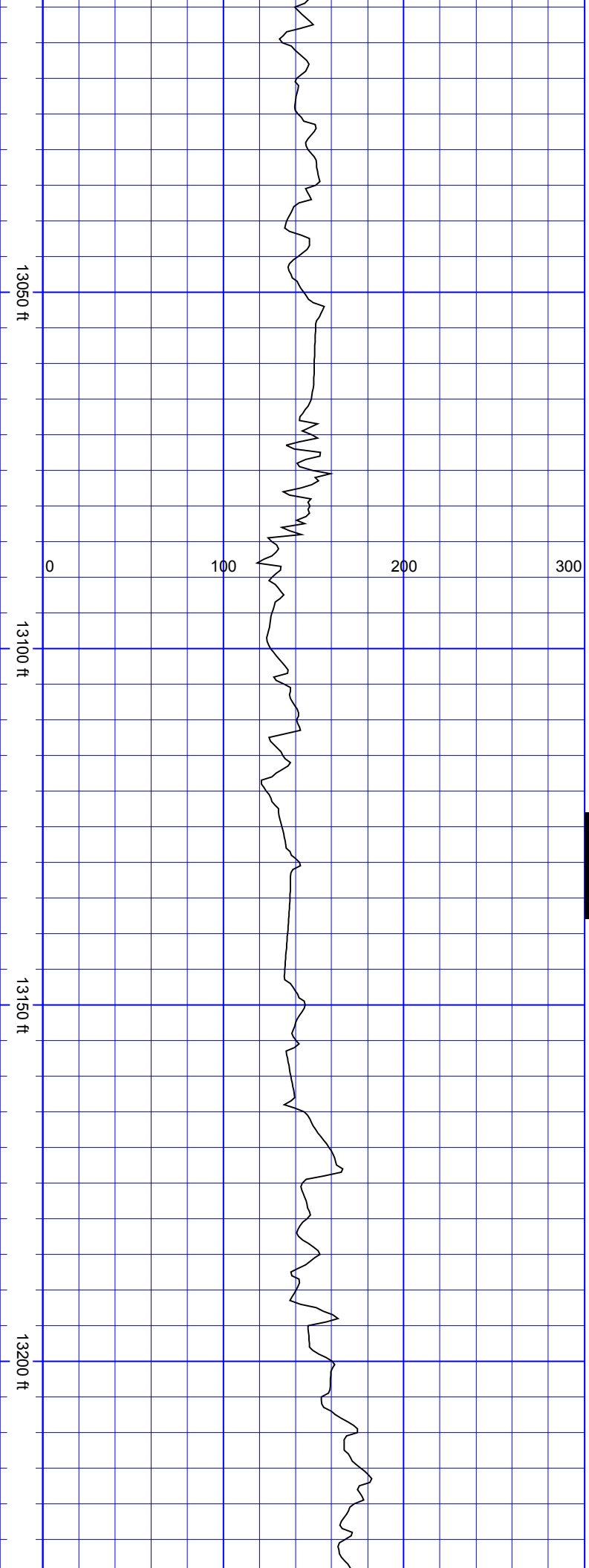
SurveyDepth:12872
TVD:7256.57 Inc:90.4
Azi:358.42
VertSec:4972.67

SSSS

SSSS

SurveyDepth:12967
TVD:7256.57 Inc:89.6
Azi:359.12
VertSec:5067.59

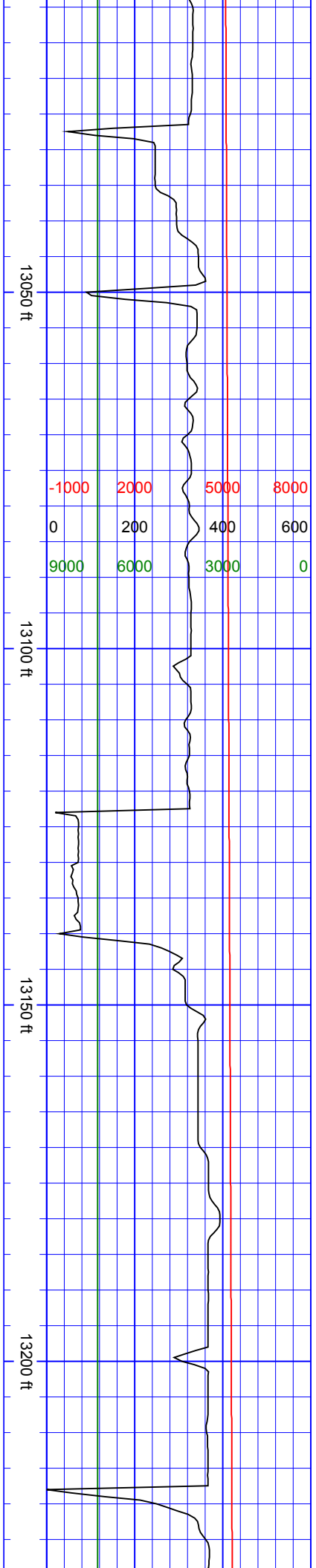


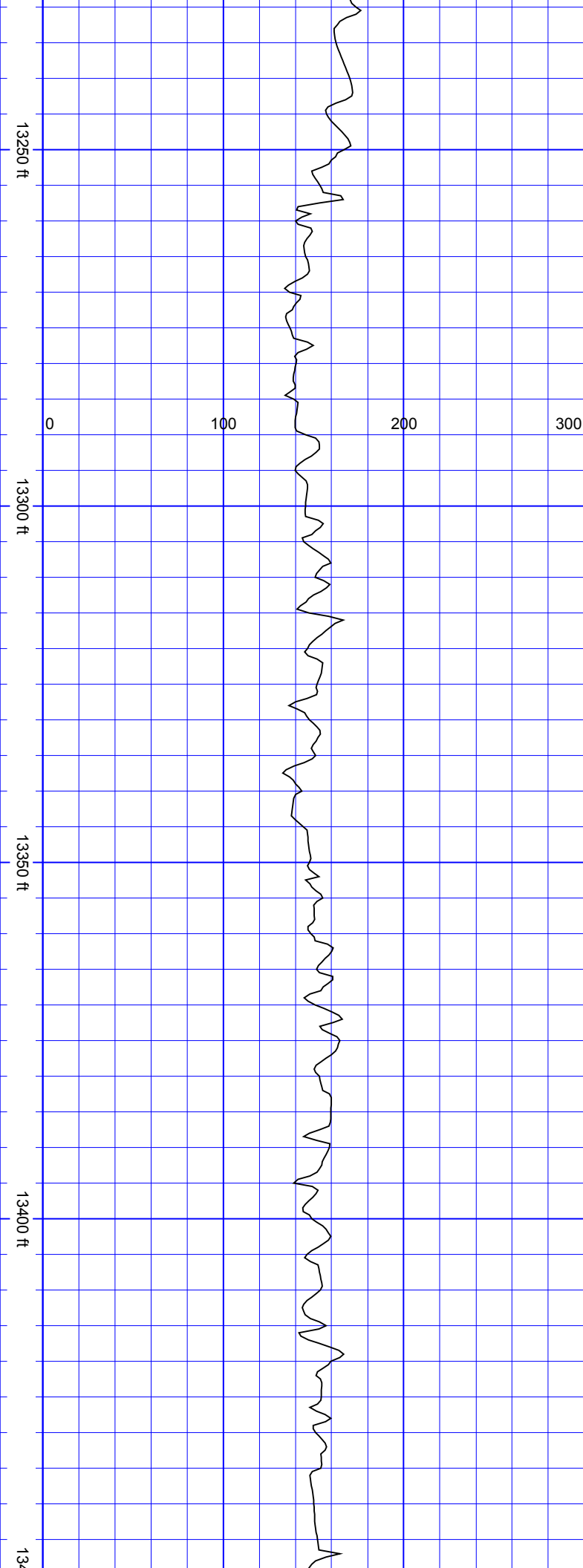


SurveyDepth:13061
TVD:7256.43 Inc:90.57
Azi:359.03
VertSec:5161.53

S
S
S
S
S
S

SurveyDepth:13156
TVD:7256.03 Inc:89.91
Azi:359.91
VertSec:5256.49

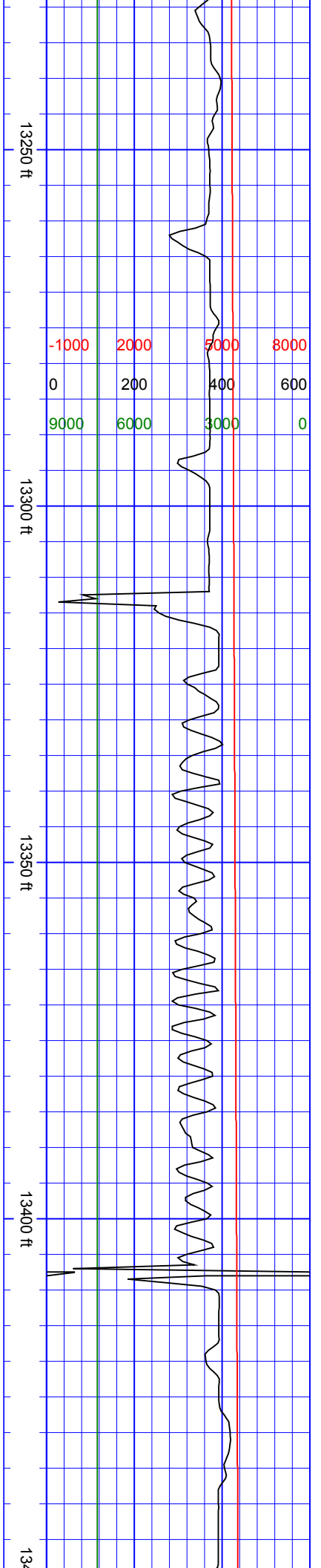


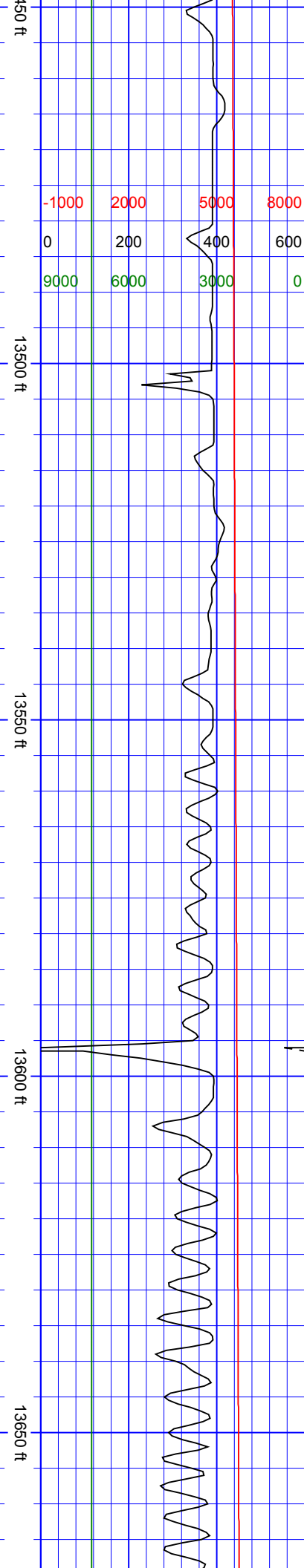


SurveyDepth:13250
TVD:7256.47 Inc:89.56
Azi:358.59
VertSec:5350.43

SurveyDepth:13345
TVD:7256.94 Inc:89.87
Azi:358.5
VertSec:5445.34

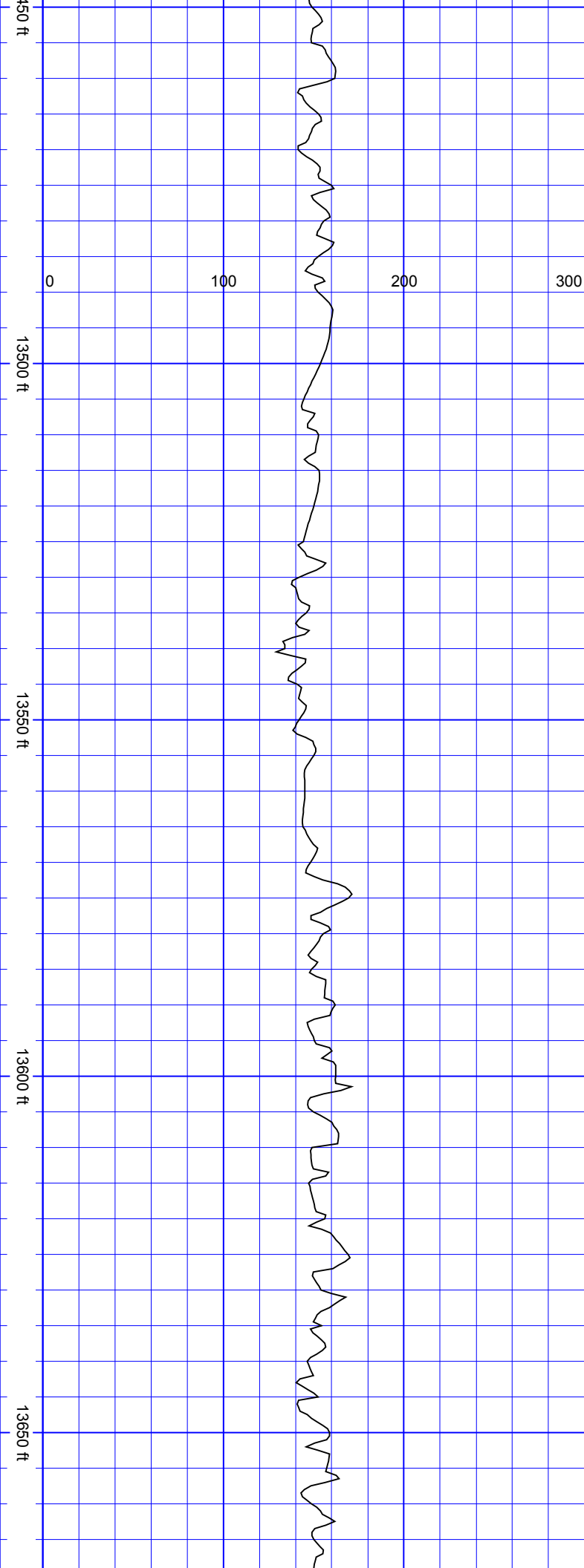
SurveyDepth:13439
TVD:7257.52 Inc:89.43
Azi:357.54
VertSec:5539.2

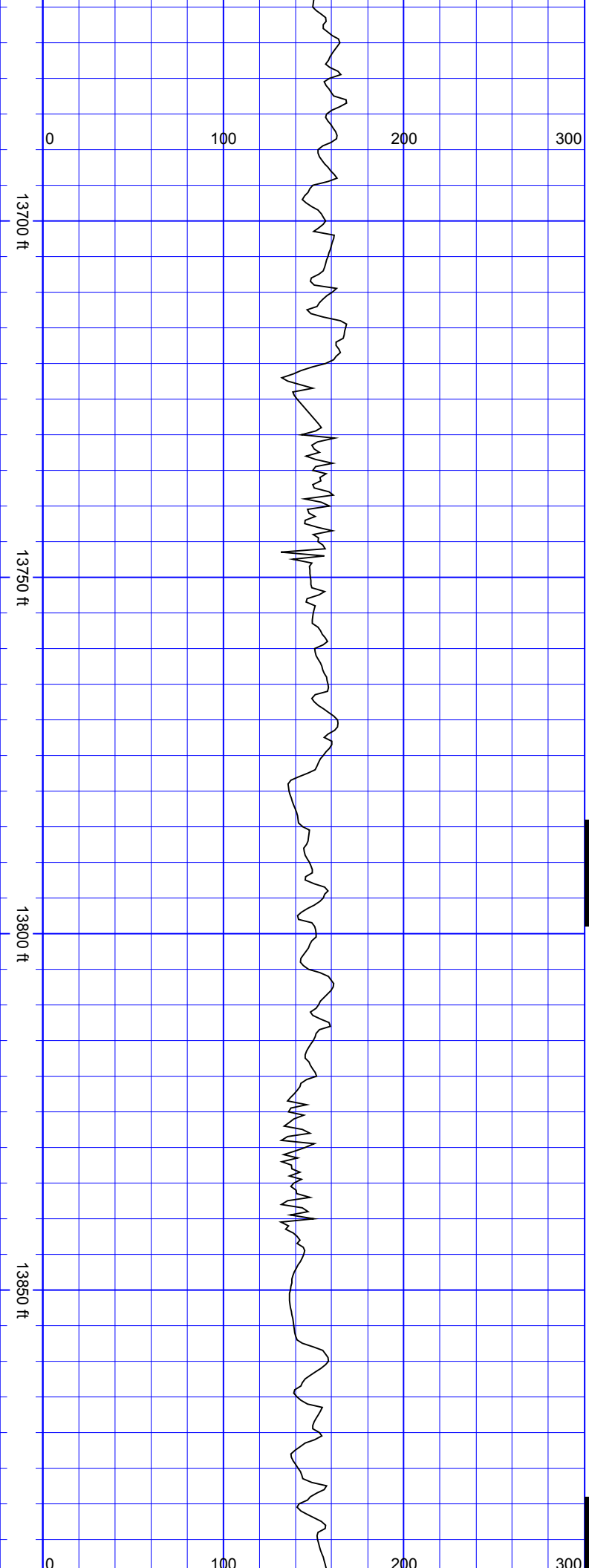




SurveyDepth:13533
TVD:7257.33 Inc:90.79
Azi:358.24
VertSec:5633.05

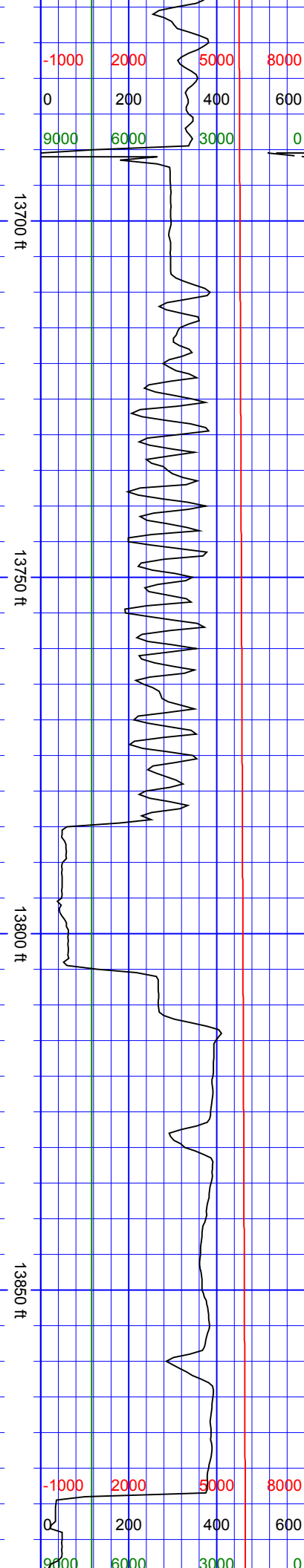
SurveyDepth:13628
TVD:7255.66 Inc:91.23
Azi:358.42
VertSec:5727.92

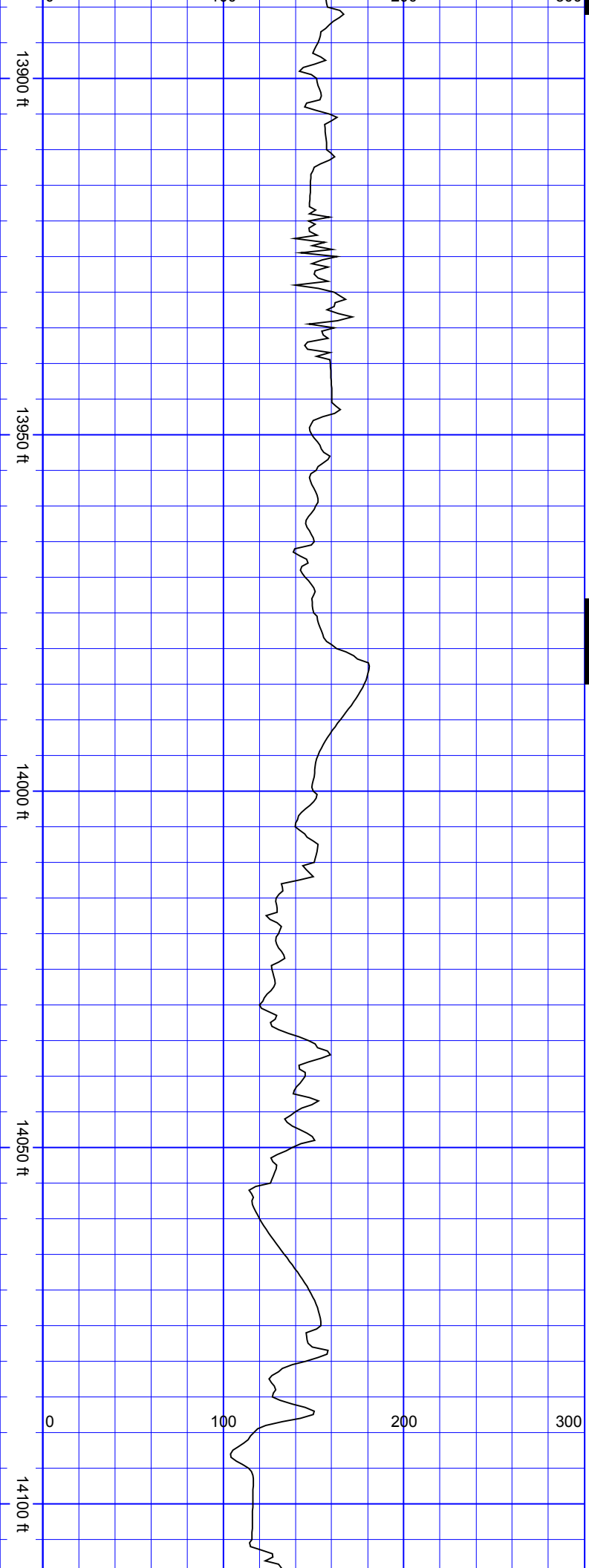




SurveyDepth:13722
TVD:7254.65 Inc:90
Azi:356.48
VertSec:5821.72

SurveyDepth:13817
TVD:7254.1 Inc:90.66
Azi:357.98
VertSec:5916.5

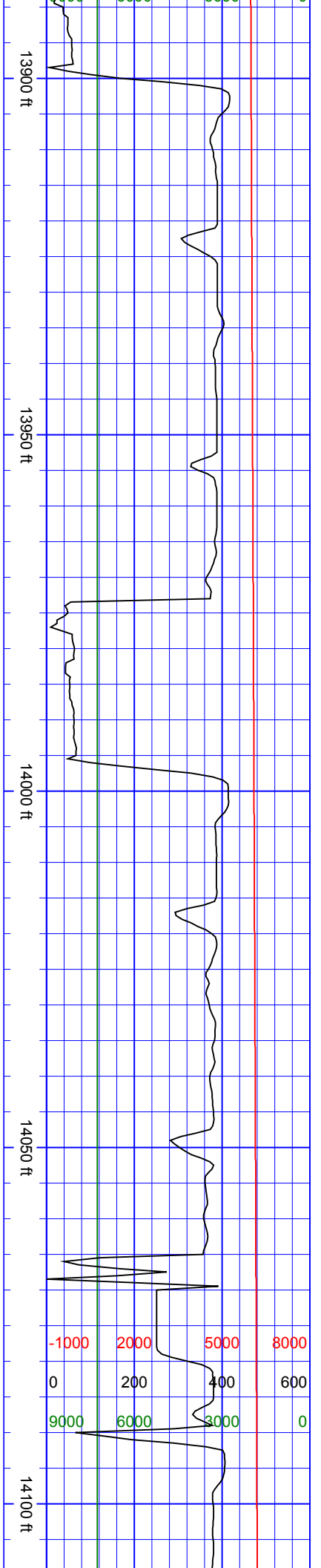


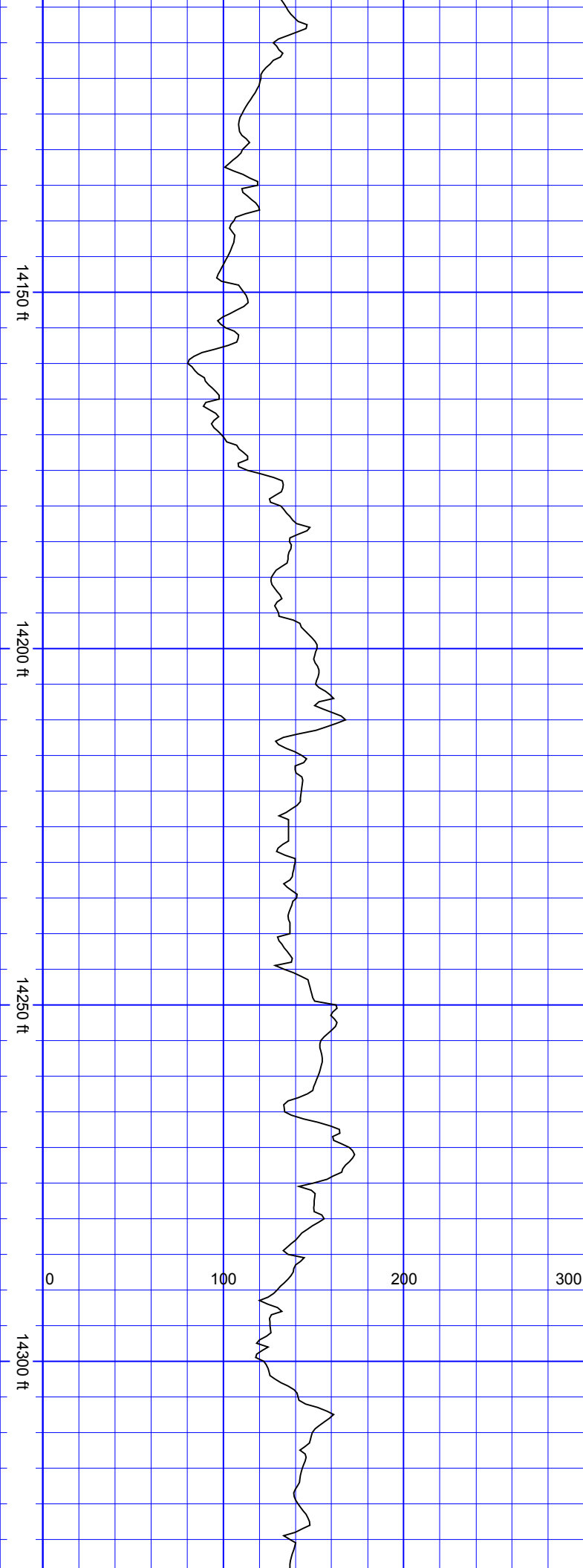


SurveyDepth:13911
TVD:7252.84 Inc:90.88
Azi:359.91
VertSec:6010.42

SurveyDepth:14005
TVD:7253.23 Inc:88.64
Azi:359.91
VertSec:6104.39

SurveyDepth:14100
TVD:7255.38 Inc:88.77
Azi:359.74
VertSec:6199.35

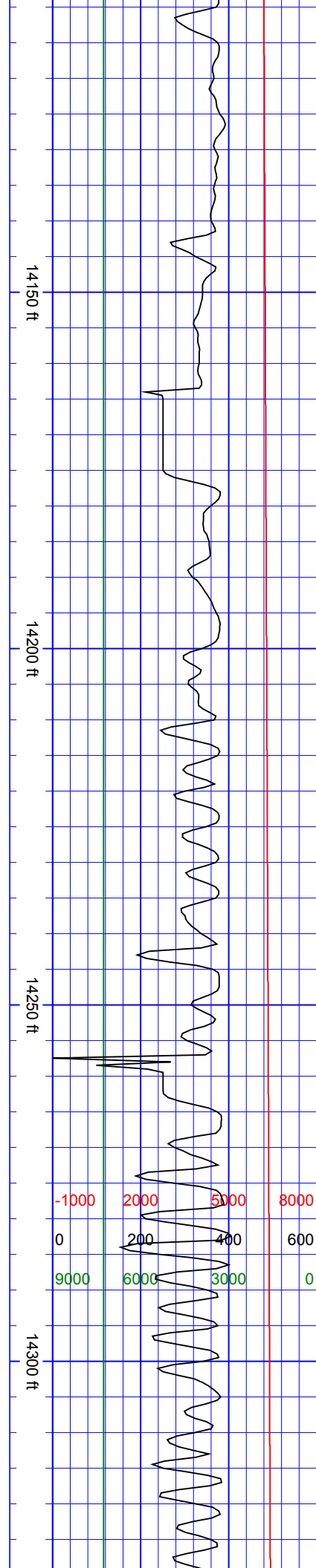


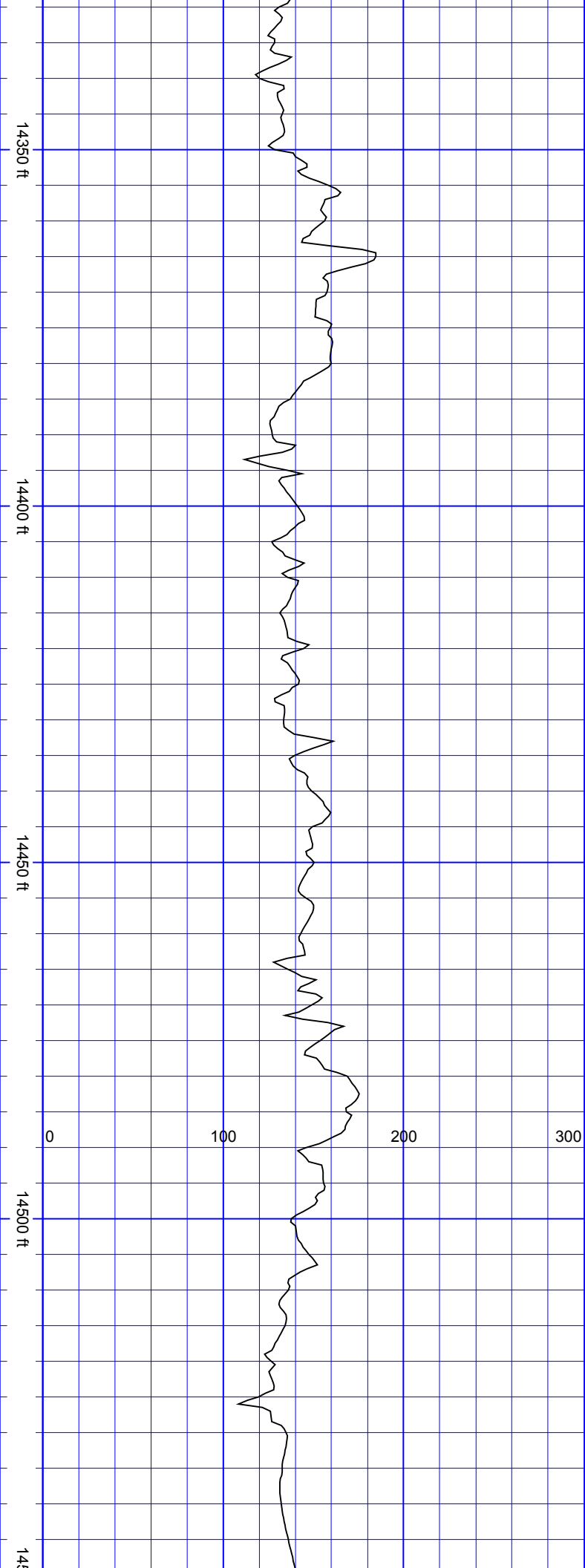


VertSec:6199.33

SurveyDepth:14195
TVD:7257.39 Inc:88.81
Azi:359.3
VertSec:6294.29

SurveyDepth:14290
TVD:7259.5 Inc:88.64
Azi:358.59
VertSec:6389.2





SurveyDepth:14384
TVD:7261.45 Inc:88.99
Azi:358.42
VertSec:6483.08

SurveyDepth:14478
TVD:7263.03 Inc:89.08
Azi:358.33
VertSec:6576.96

