



Build & Lateral

Job #:

185319

Well ID:

16191476

Scale:

5" = 100 ft

Type:

MD

Well Site Information

Oil Company Crestone Peak Resources

Surface Location S17-T2N-R65W

Well Name Melbon Ranch 4K-17H-M265

API 05-123-47755

Field DJ BASIN

State CO

Country USA

Surface Coordinates

Well Type Horizontal

Latitude 40° 8' 4.68 N

Longitude 104° 41' 47.90 W

N / S Coordinates 1,292,910.35 us/ft

E / W Coordinates 3,224,623.87 us/ft

Azimuth Reference True North

Grid Convergence 0.52°

MWD Engineers

Lead Hand Deric Group

Second Hand Dave Lindberg

Perm Datum Ground Elevation 4,956.00 ft

Log depth measured from KB is 23.00 ft above perm datum. KB = 4,979.00 ft

Total Depth 12,113.00 ft Spud Date Nov/11/2018 End Date Nov/13/2018

(MD) Log Interval Start Depth 2,380.47 ft End Depth 12,116.34 ft

Bore Hole Record

Hole Size	From	To
13.50 in	0.00 ft	2,439.00 ft
8.50 in	2,439.00 ft	12,113.00 ft

Casing Record

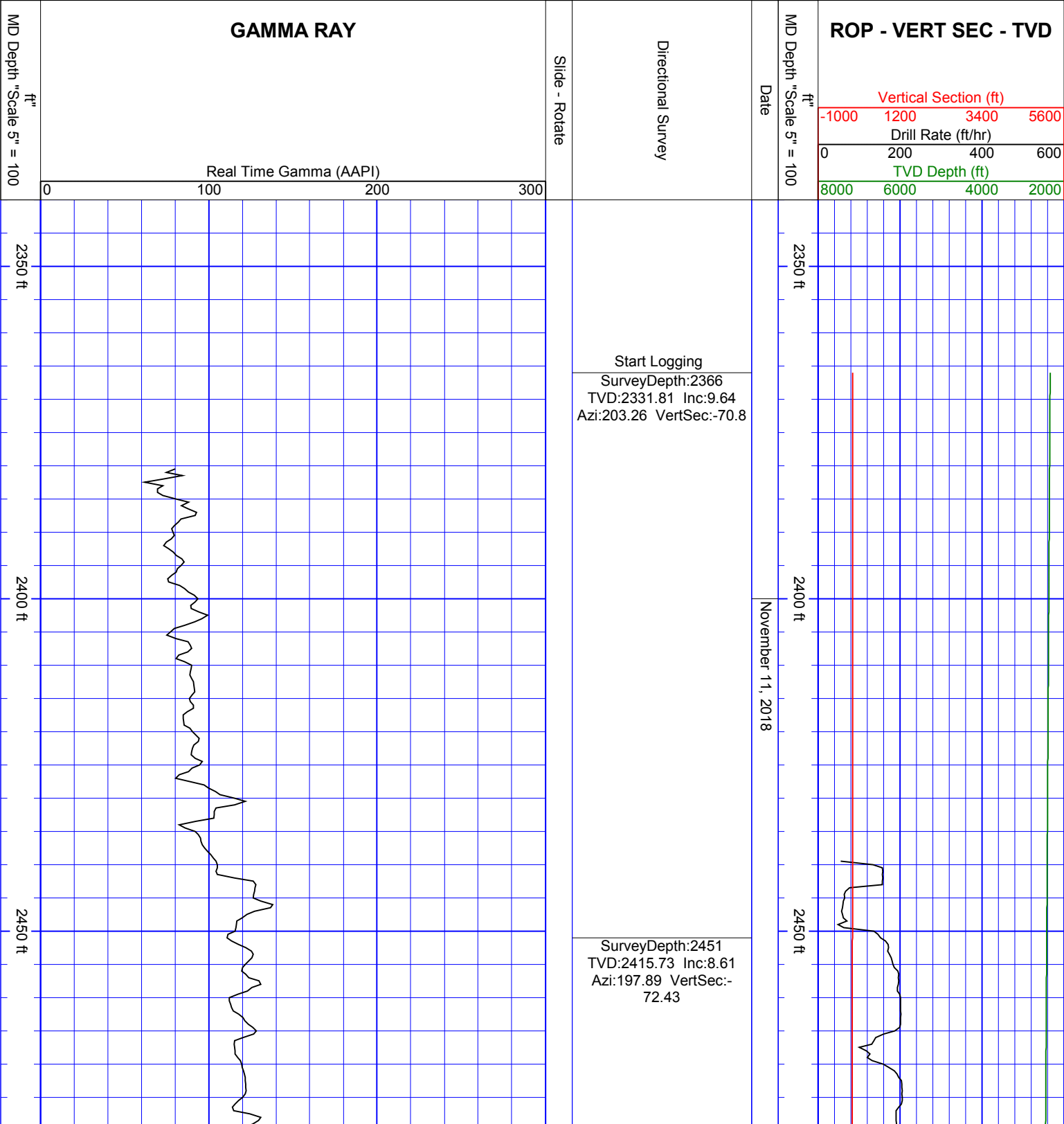
Type	Size	WGT	From	To
LTC	9.63 in	40.00 lbs/ft	0.00 ft	2,389.00 ft

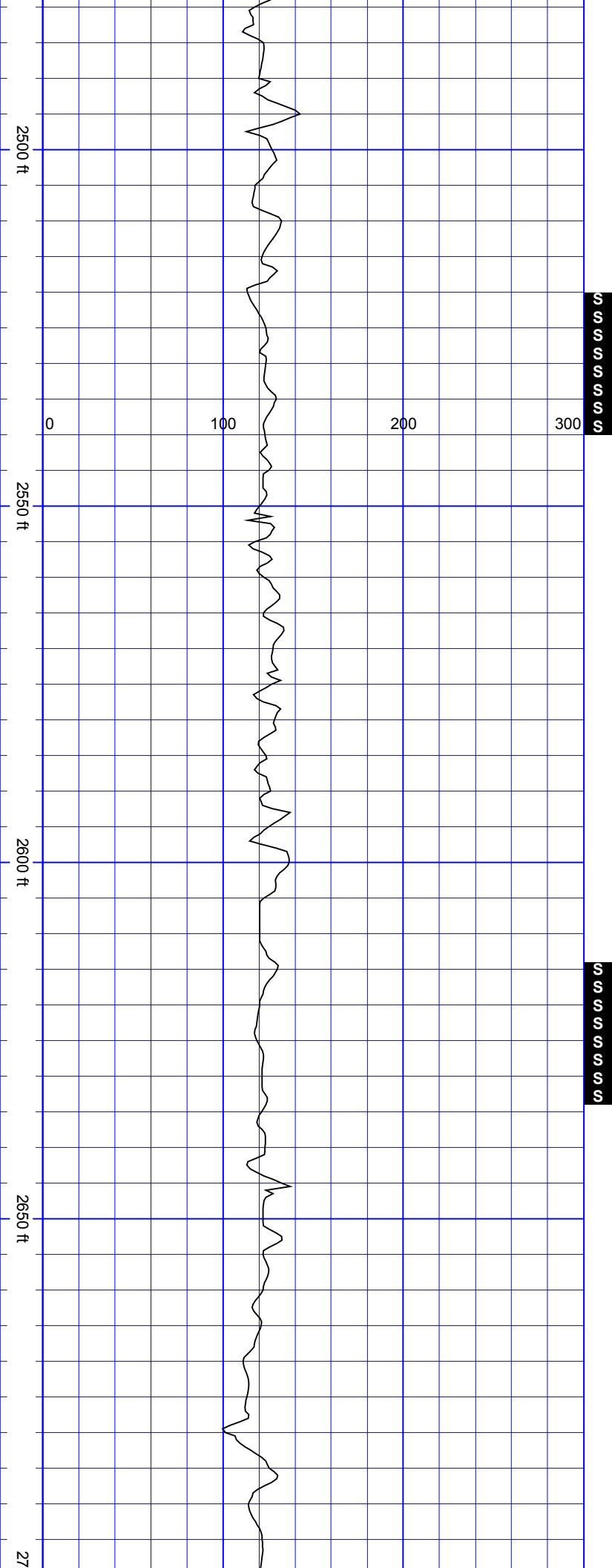
Run Data

Bit Run Number	1				
Start Date & Time	Nov/11/2018 05:30:00				
End Date & Time	Nov/14/2018 08:00:00				
Run Hours	74.50				
Depth In	2,439.00 ft				
Depth Out	12,113.00 ft				
Total Gamma Correction	5.88				
Gamma to Bit	62.89 ft				
Resistivity to Bit	-				
Mud Type	OBM				
Density	10.10 ppg				
Viscosity	47.00 sec/qt				
PH	-				
Fluid Loss	-				
K+ ppm	-				
CL- ppm	206,895 ppm				
Max Mud Temp	248.00 °F				
Mud Report Depth	8,426.00 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.



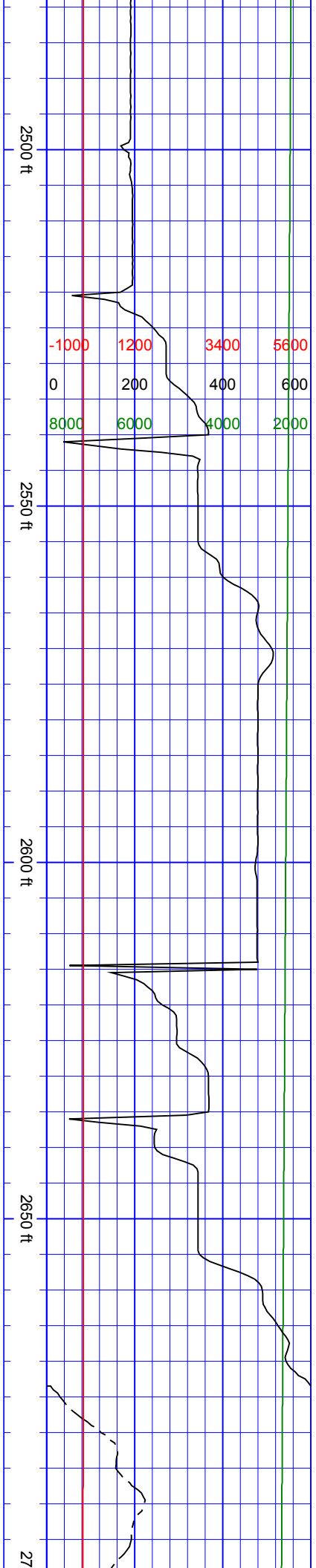


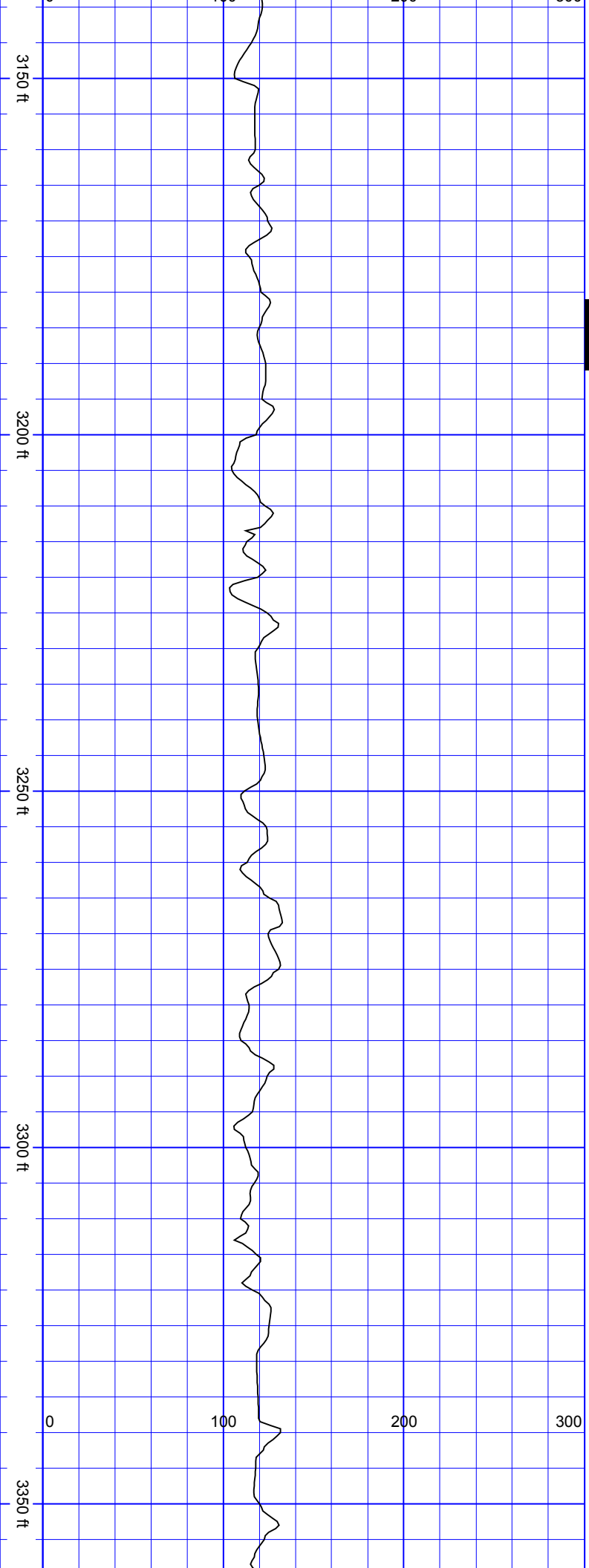
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SurveyDepth:2545
TVD:2508.57 Inc:9.49
Azi:208.08 VertSec:-74.84

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SurveyDepth:2639
TVD:2601.12 Inc:10.68
Azi:216.34 VertSec:-80.1

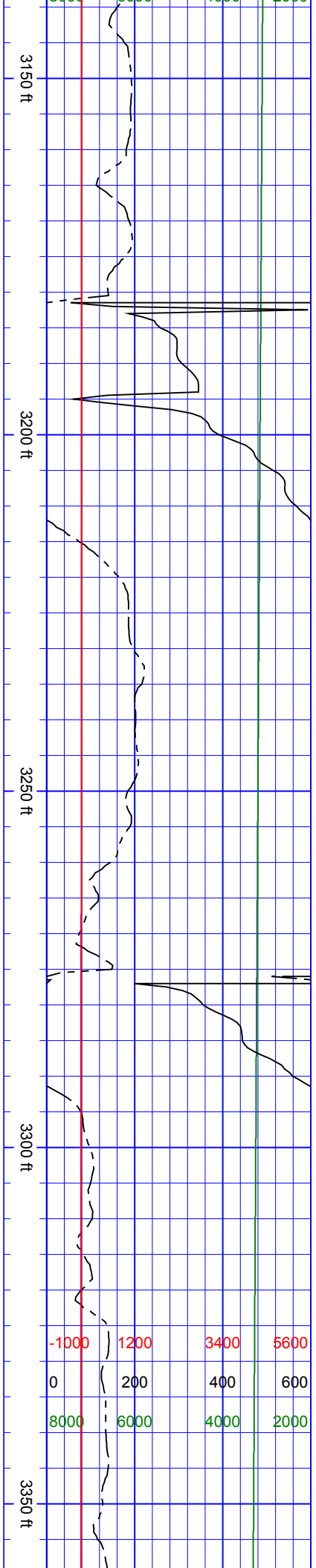


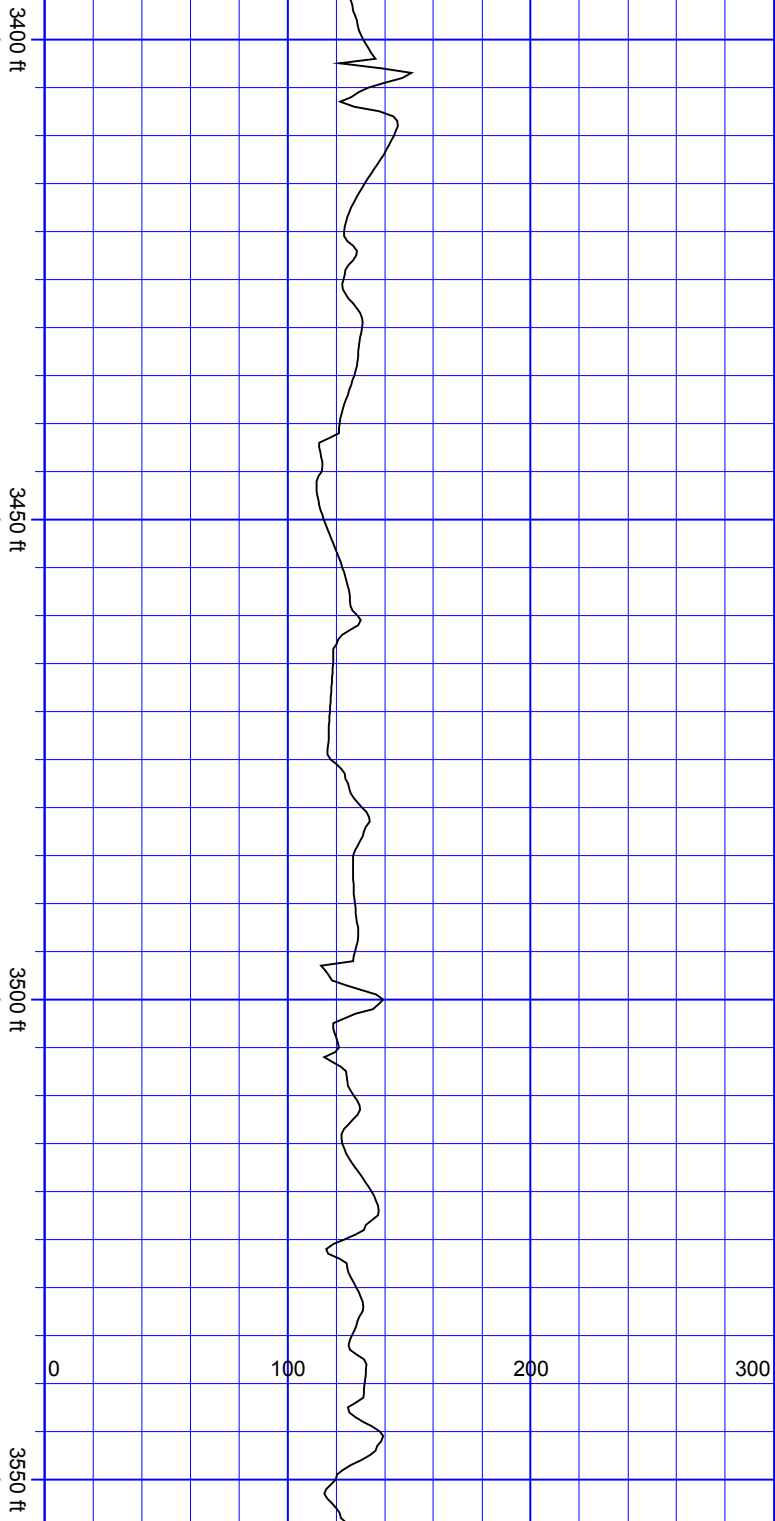


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SurveyDepth:3206
TVD:3153.37 Inc:14.46
Azi:203.51 VertSec:-
129.43

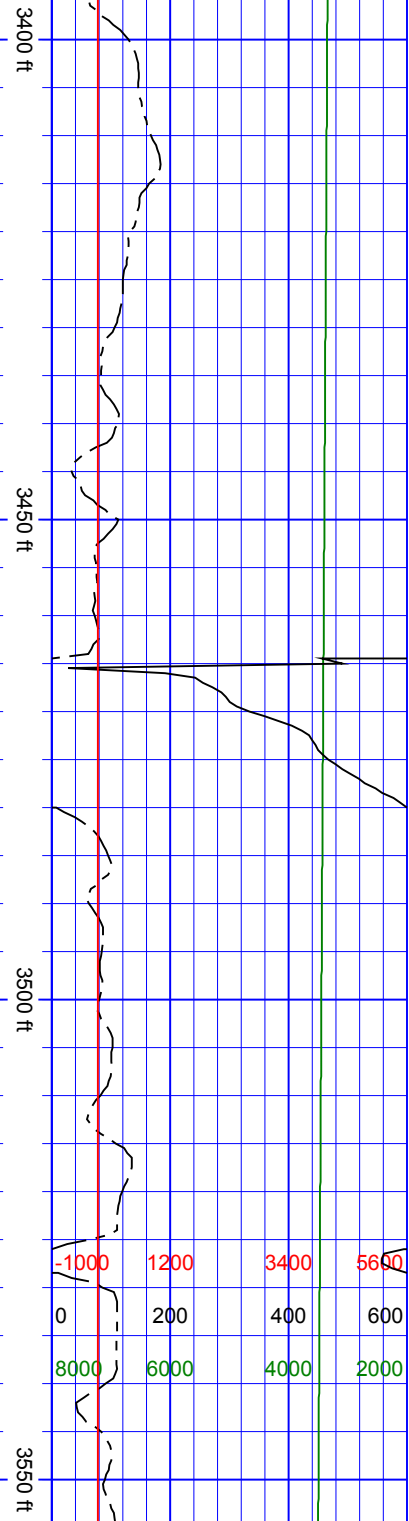
SurveyDepth:3301
TVD:3245.58 Inc:13.4
Azi:203.25 VertSec:-
133.24

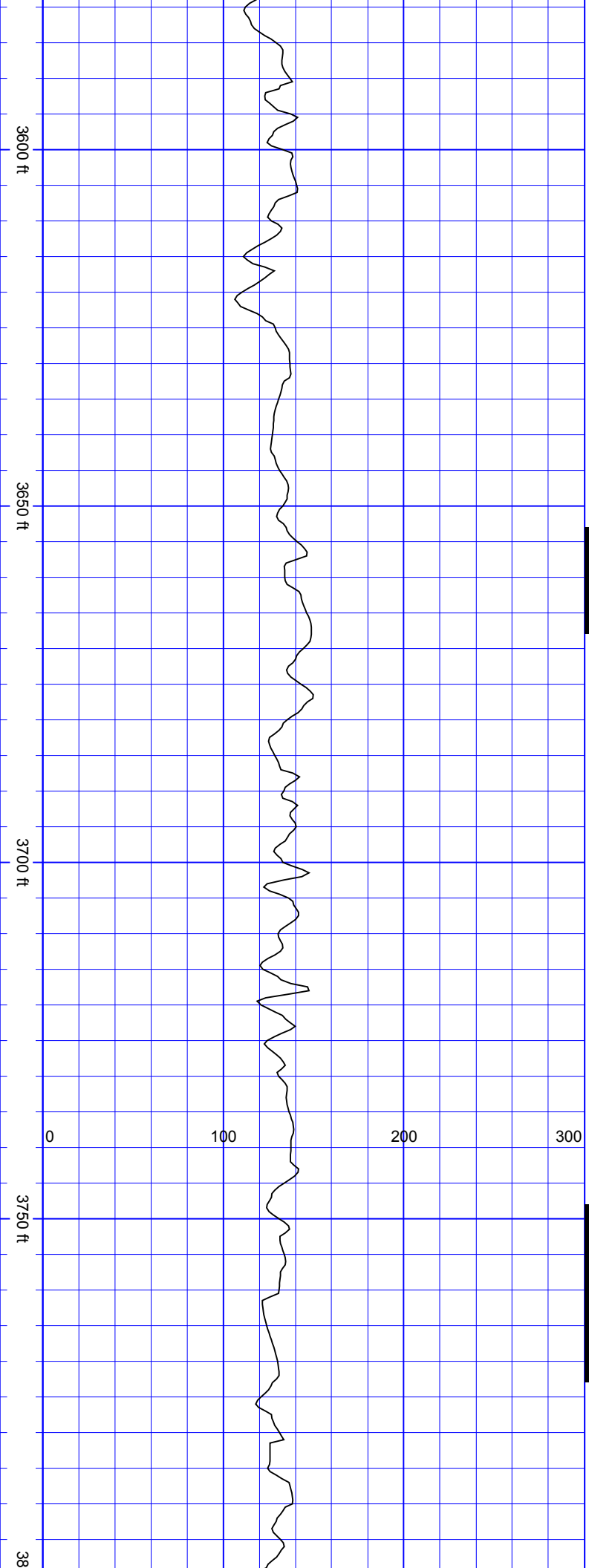




SurveyDepth:3395
TVD:3337.31 Inc:11.82
Azi:202.02 VertSec:-
136.41

SurveyDepth:3489
TVD:3429.57 Inc:10.24
Azi:200.35 VertSec:-
138.75

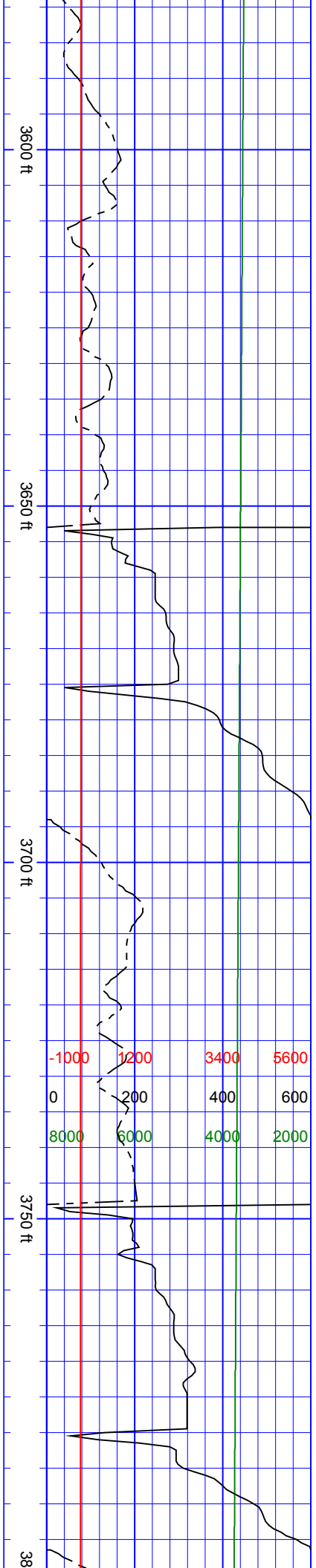


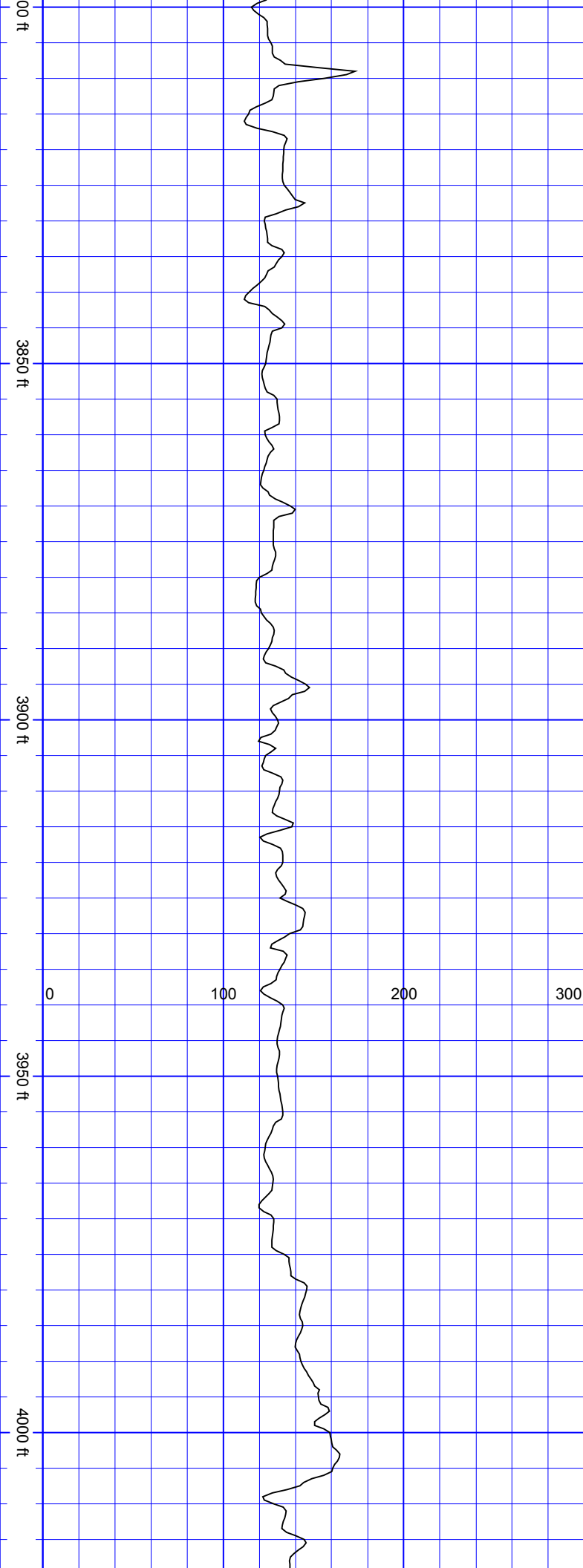


SurveyDepth:3584
TVD:3523.3 Inc:8.53
Azi:199.56 VertSec:-
140.42

SurveyDepth:3679
TVD:3617.25 Inc:8.48
Azi:206.76 VertSec:-
142.7

SurveyDepth:3797

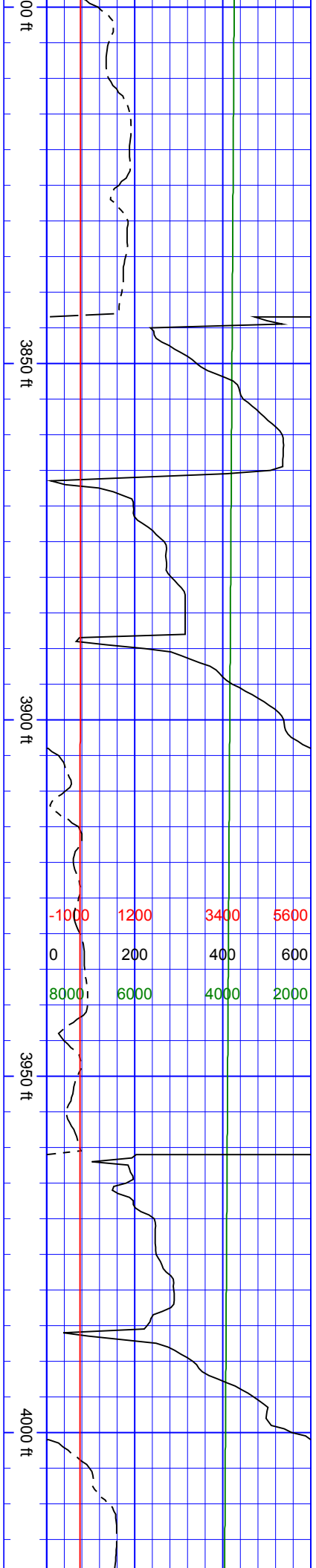


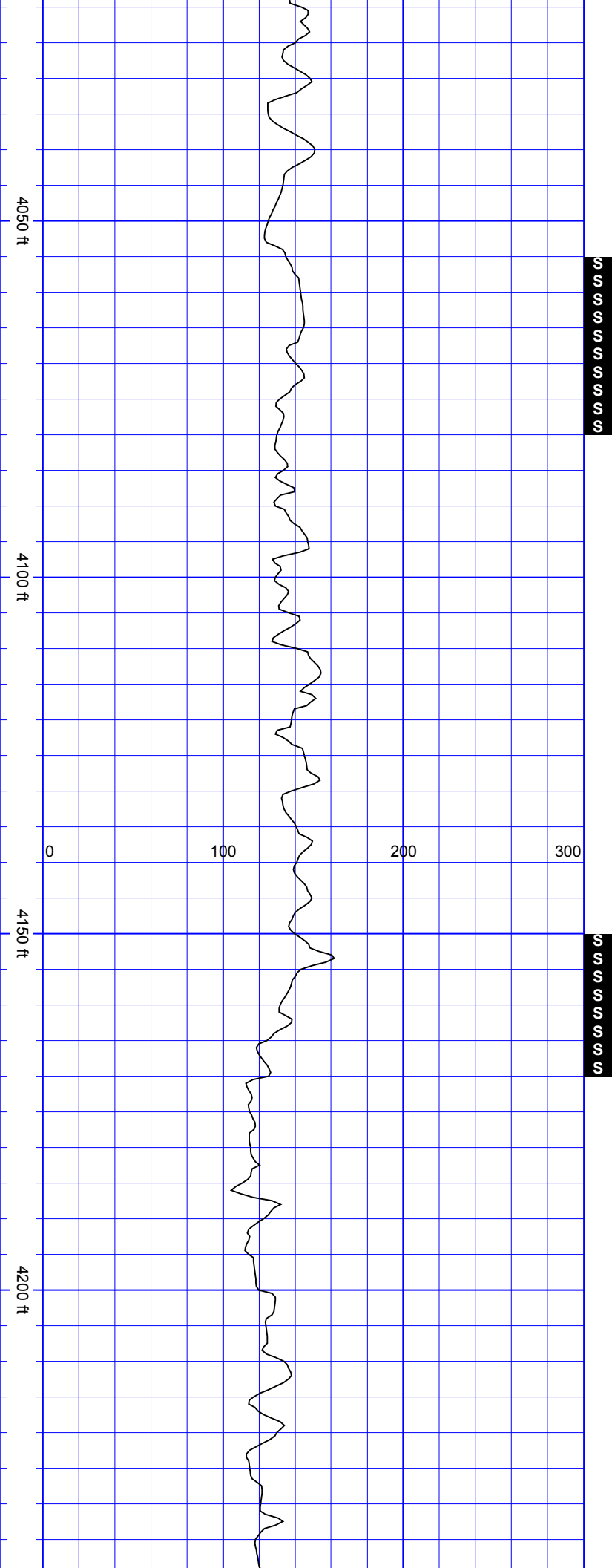


TVD:3733.65 Inc:10.42
Azi:216.26 VertSec:-
148.73

SurveyDepth:3892
TVD:3826.97 Inc:11.21
Azi:213.36 VertSec:-
155.11

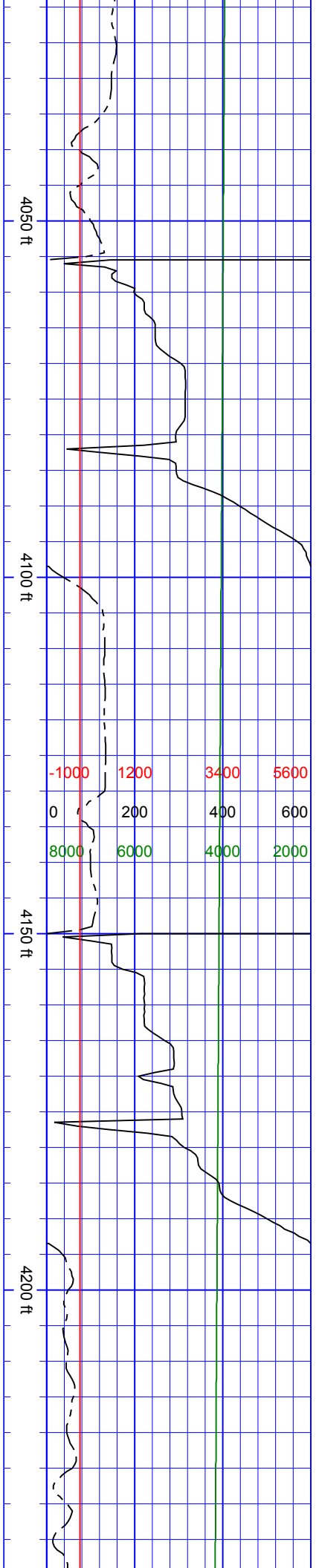
SurveyDepth:3986
TVD:3919.19 Inc:11.16
Azi:204.65 VertSec:-
159.88

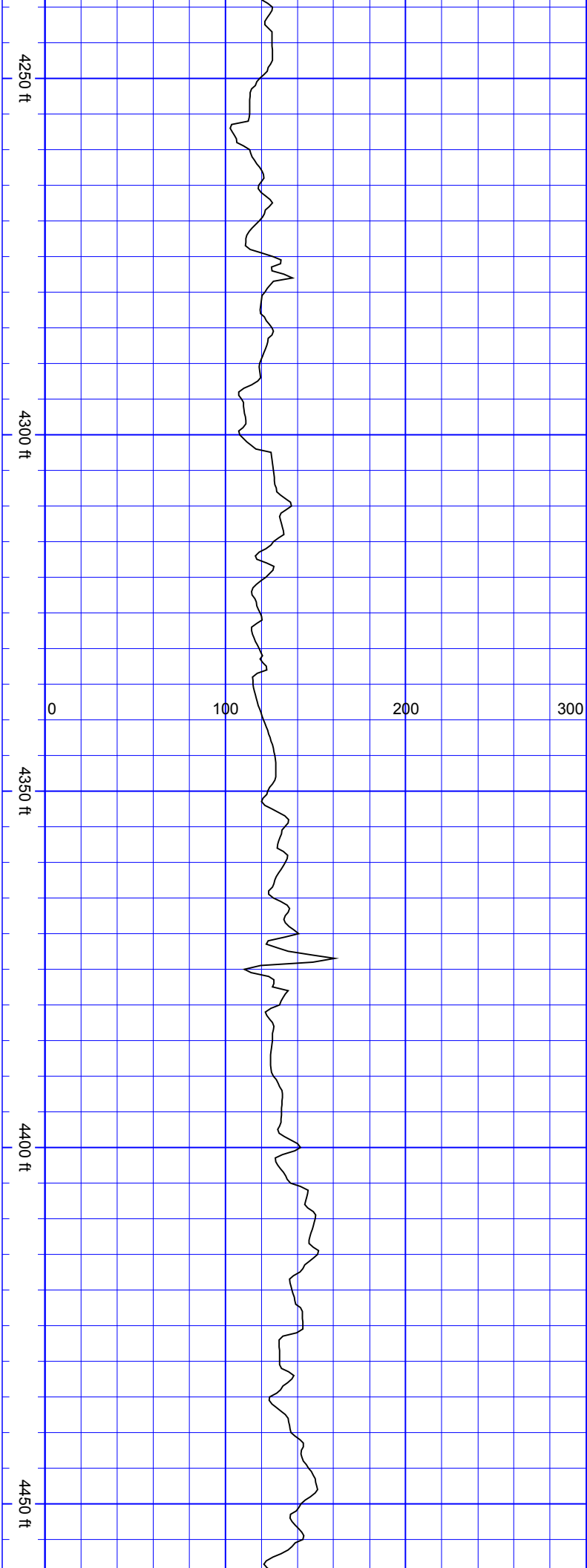




SurveyDepth:4081
TVD:4012.2 Inc:12.31
Azi:202.19 VertSec:-
163.09

SurveyDepth:4175
TVD:4103.73 Inc:14.02
Azi:199.29 VertSec:-
165.65

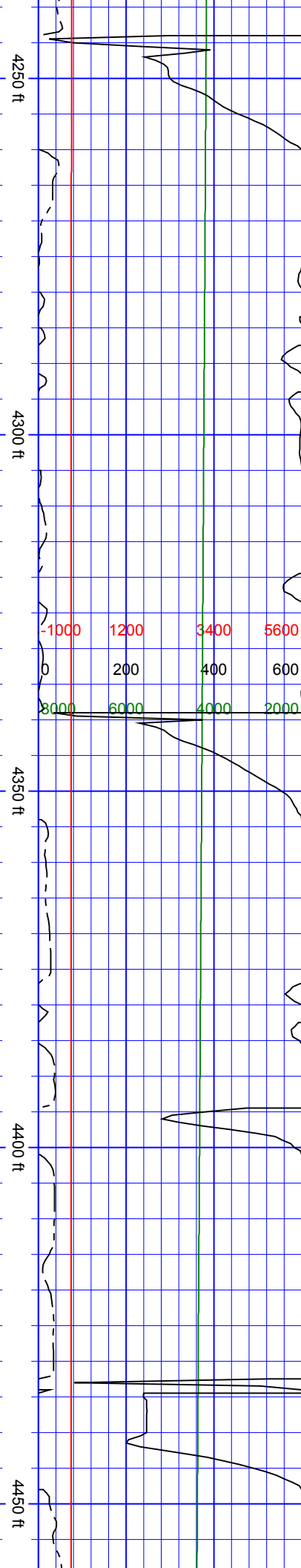


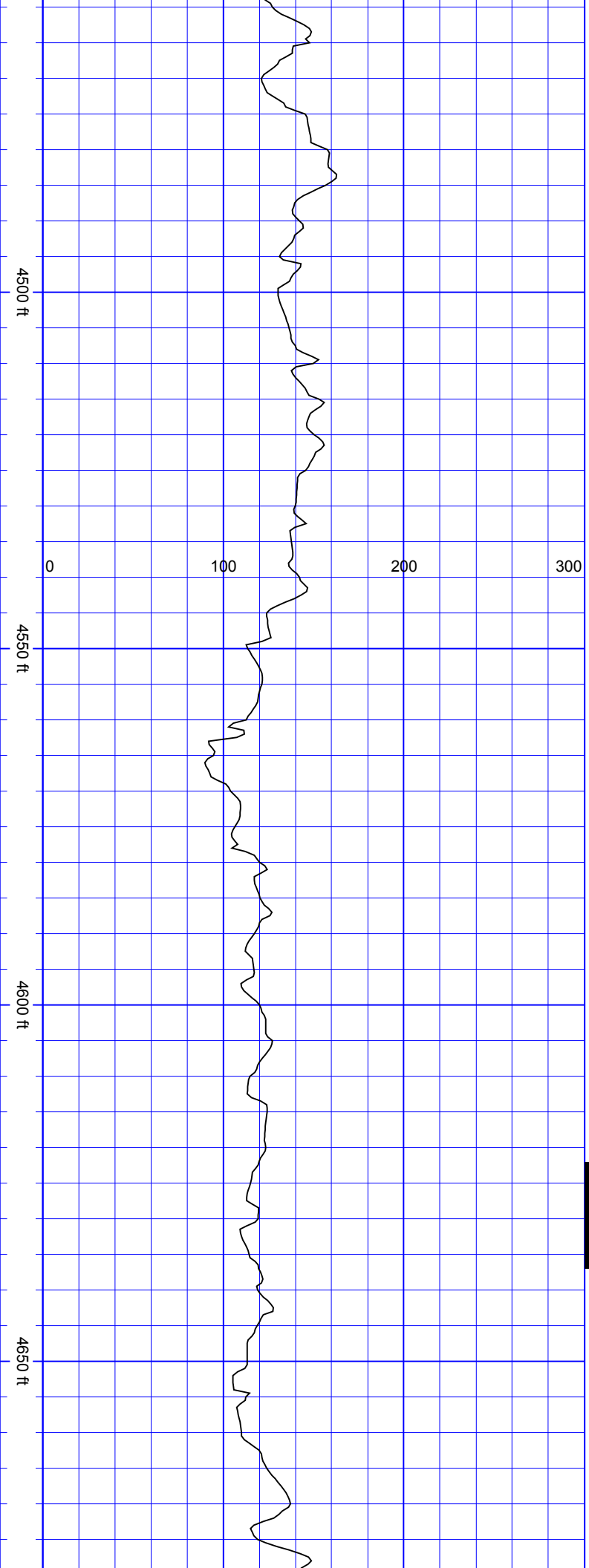


SurveyDepth:4269
TVD:4195.04 Inc:13.45
Azi:198.77 VertSec:-
167.69

SurveyDepth:4364
TVD:4287.64 Inc:12.35
Azi:198.77 VertSec:-
169.53

SurveyDepth:4459



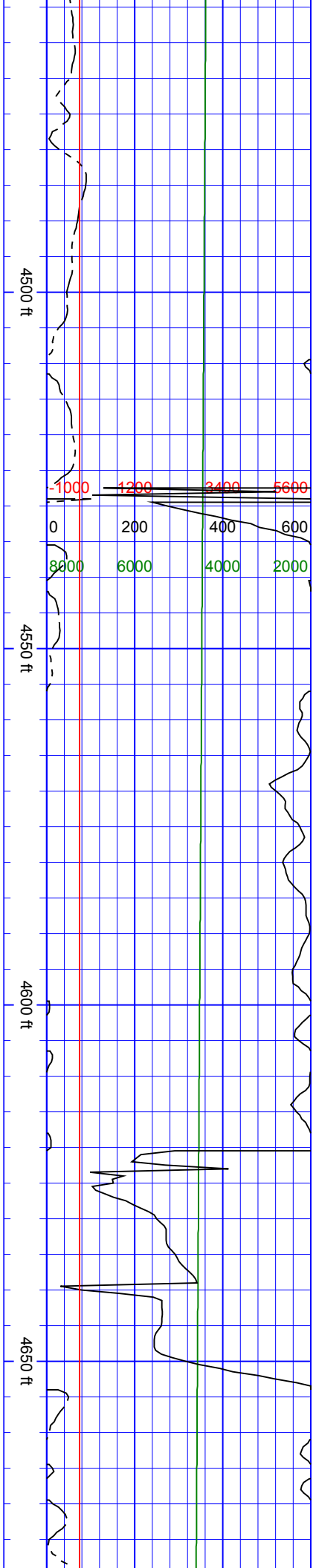


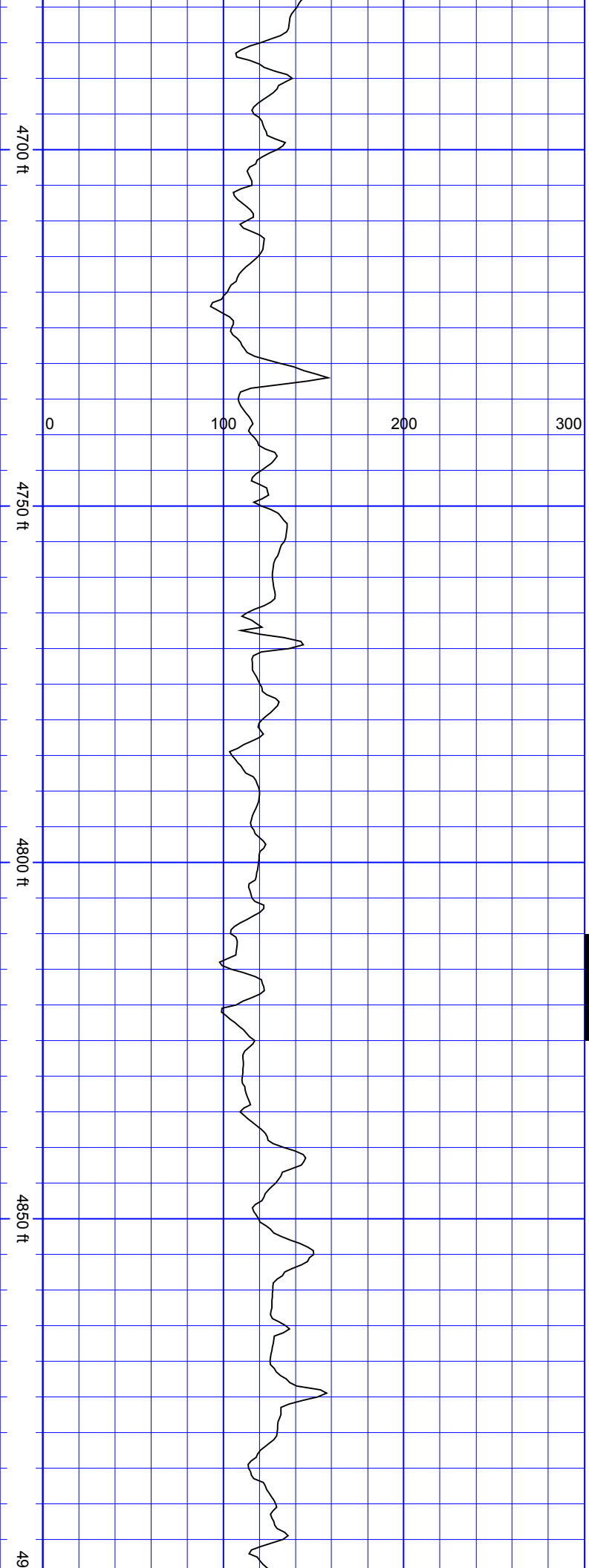
SurveyDepth:4458
TVD:4379.76 Inc:10.59
Azi:198.94 VertSec:-
171.18

SurveyDepth:4553
TVD:4473.42 Inc:8.66
Azi:196.22 VertSec:-
172.27

SurveyDepth:4647
TVD:4566.25 Inc:9.45
Azi:200.52 VertSec:-
173.47

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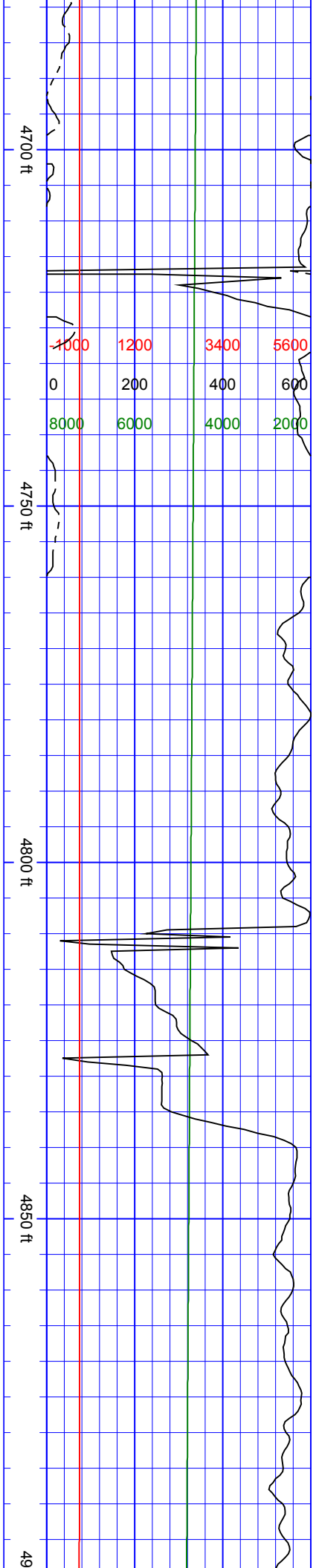


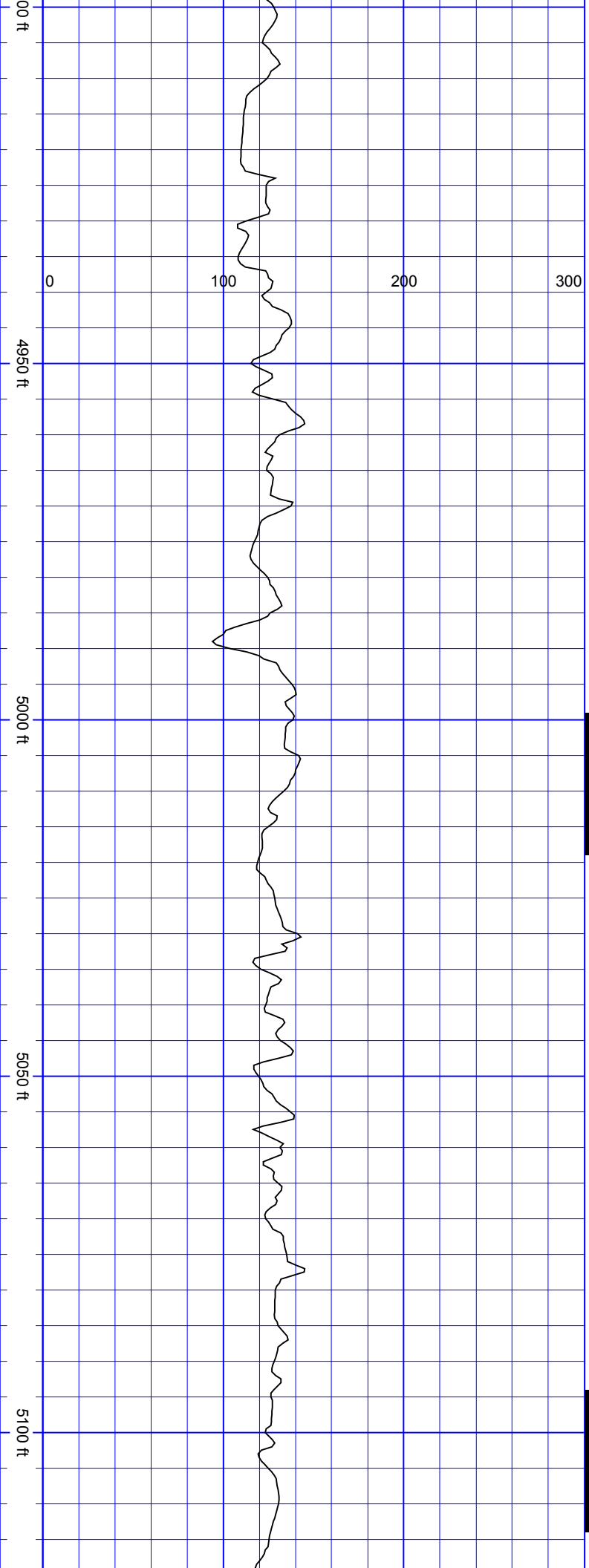


SurveyDepth:4741
TVD:4659.08 Inc:8.61
Azi:199.2 VertSec:-
175.04

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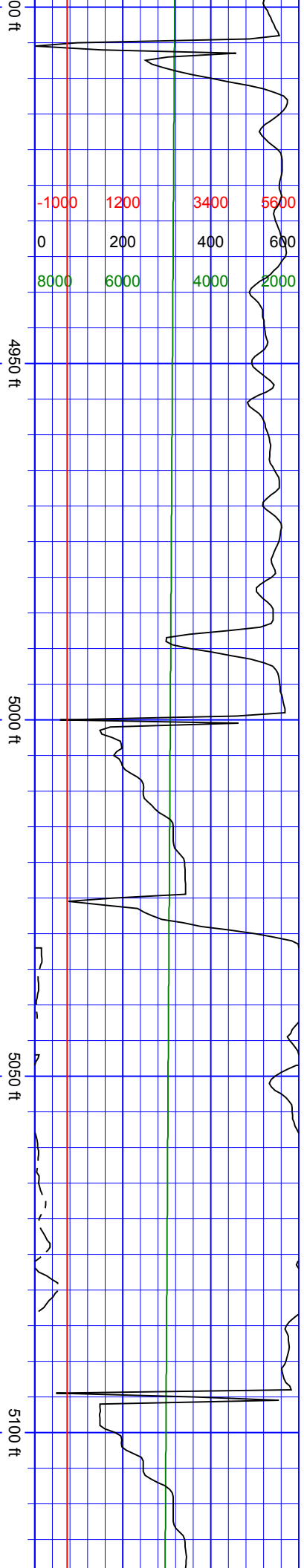
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TVD:4751.94 Inc:9.27
Azi:206.94 VertSec:-
177.42

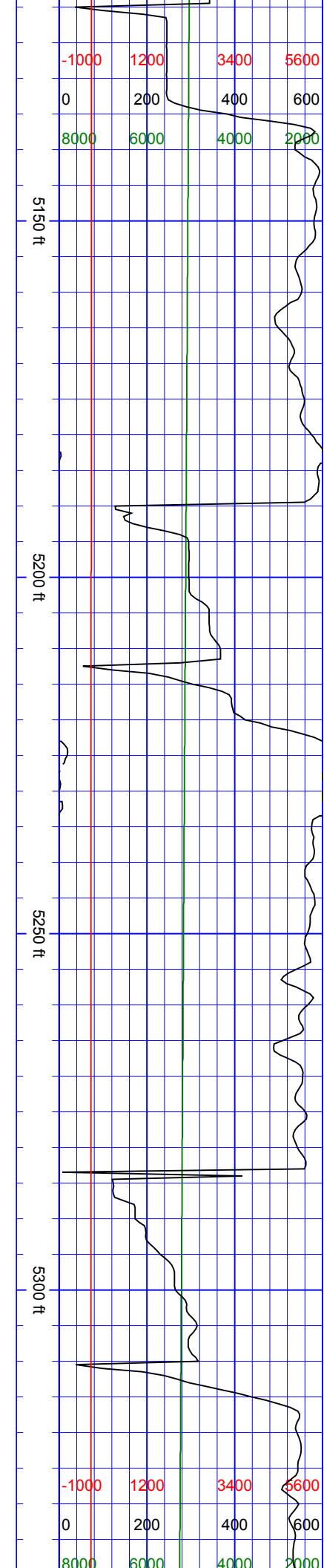
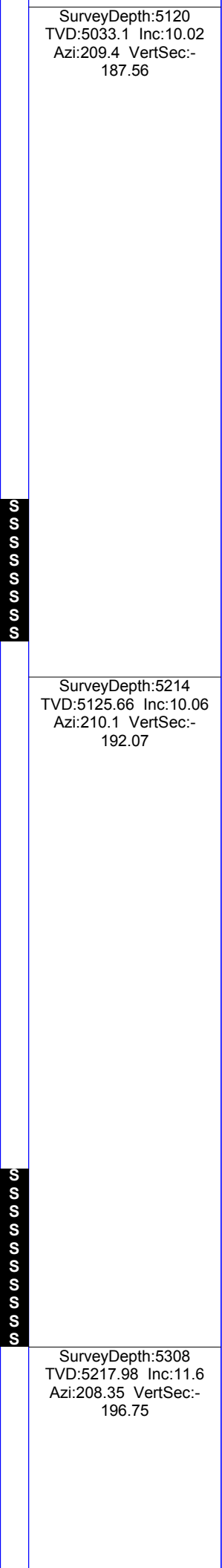
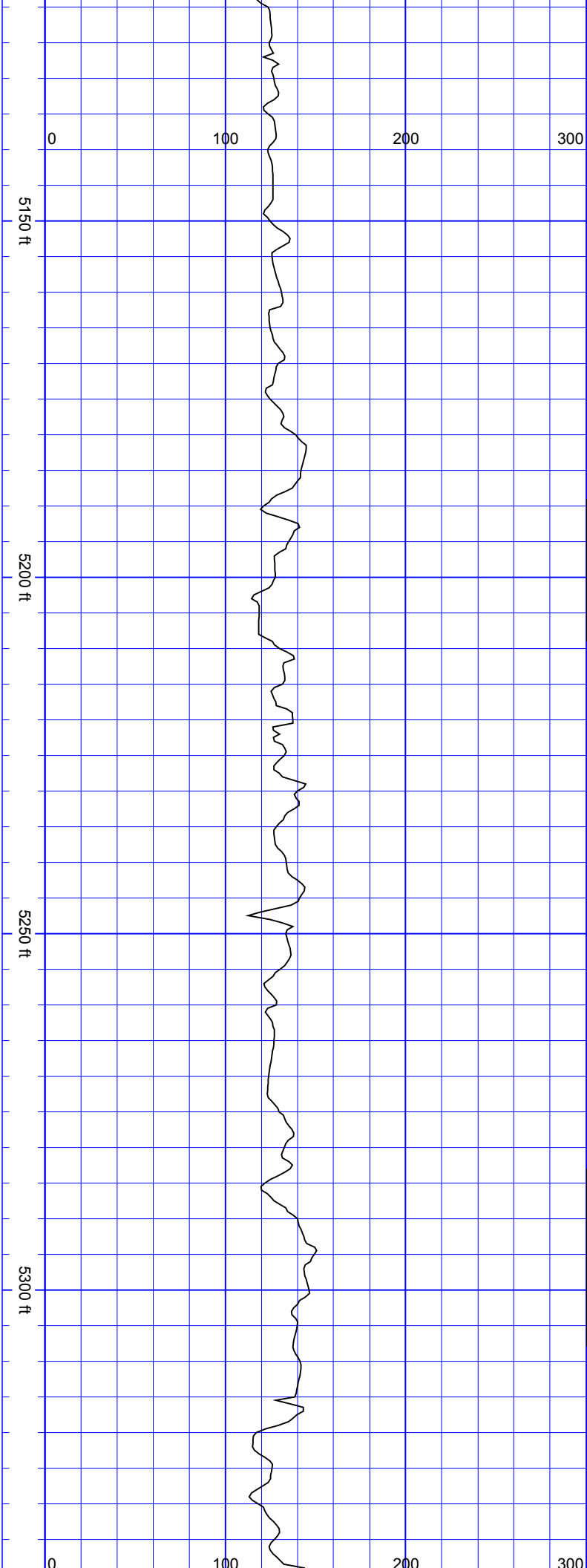


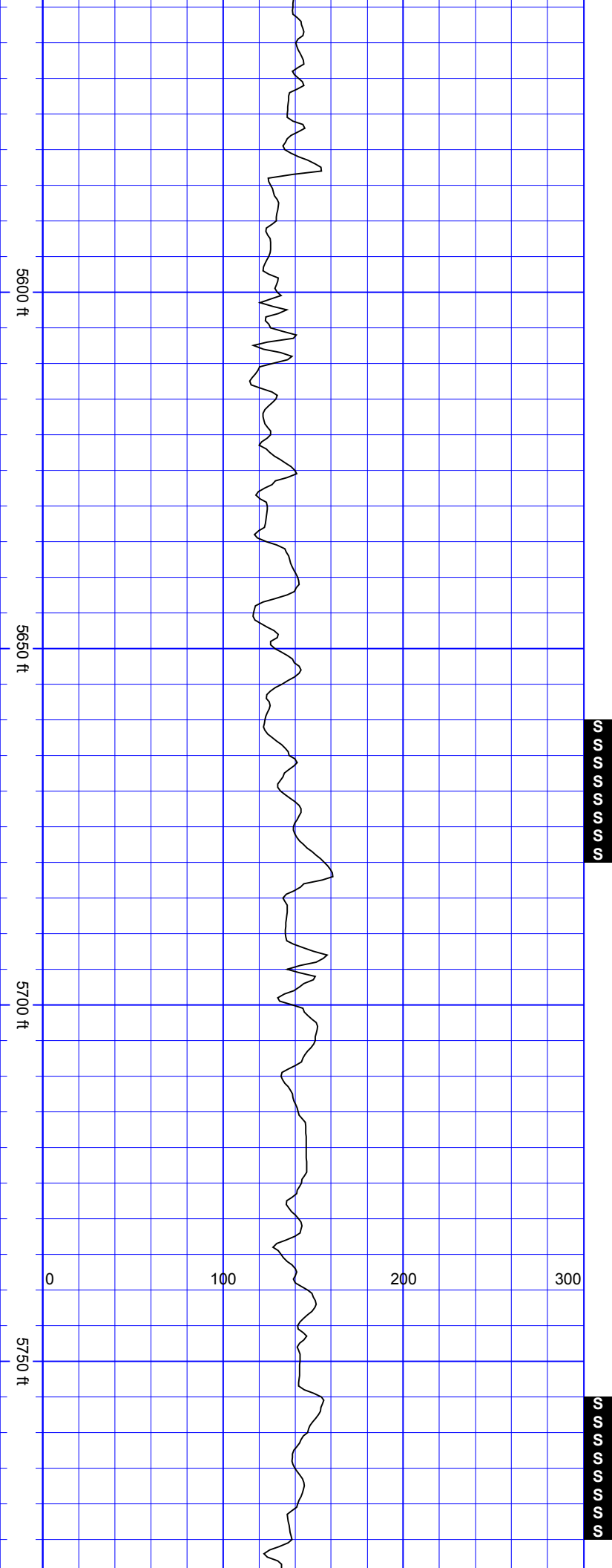


SurveyDepth:4930
TVD:4845.77 Inc:8.75
Azi:205.53 VertSec:-
180.64

SurveyDepth:5025
TVD:4939.52 Inc:9.84
Azi:205.27 VertSec:-
183.72

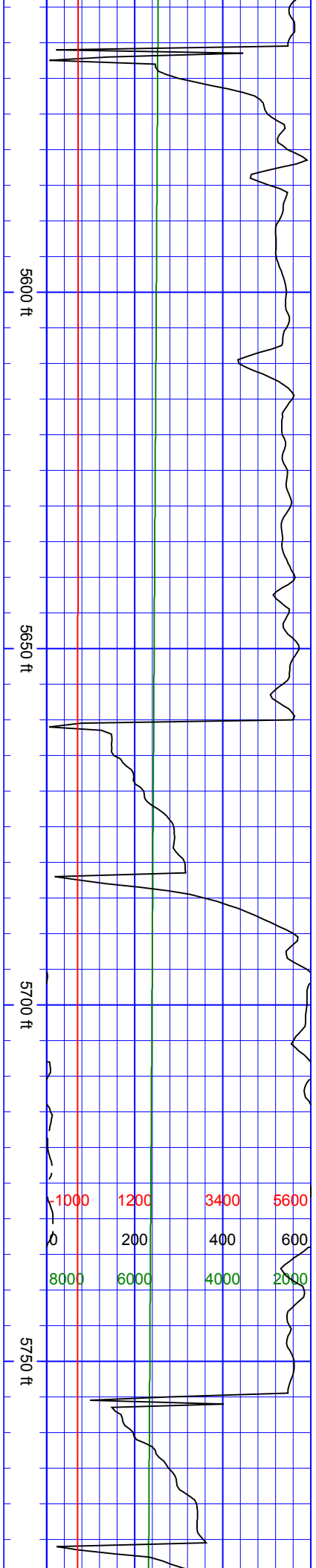


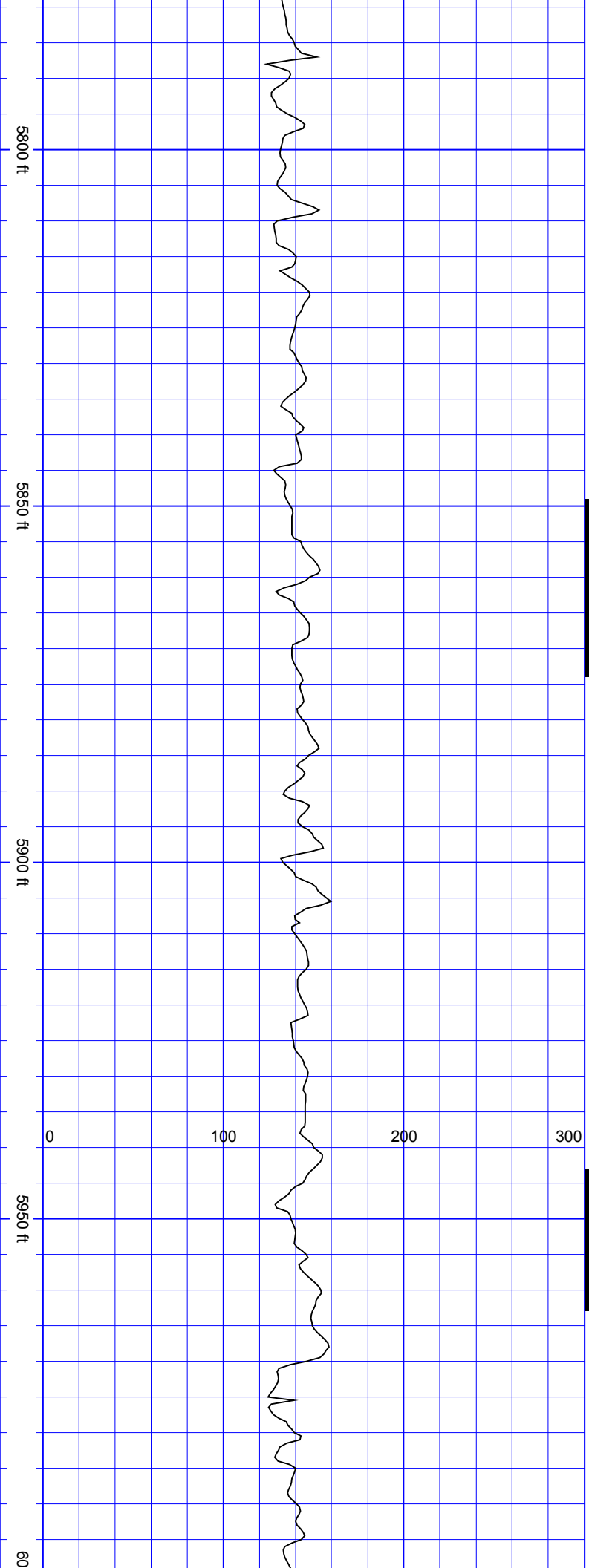




SurveyDepth:5591
TVD:5495.13 Inc:10.06
Azi:205.36 VertSec:-
212.68

SurveyDepth:5686
TVD:5588.56 Inc:10.77
Azi:210.98 VertSec:-
216.97

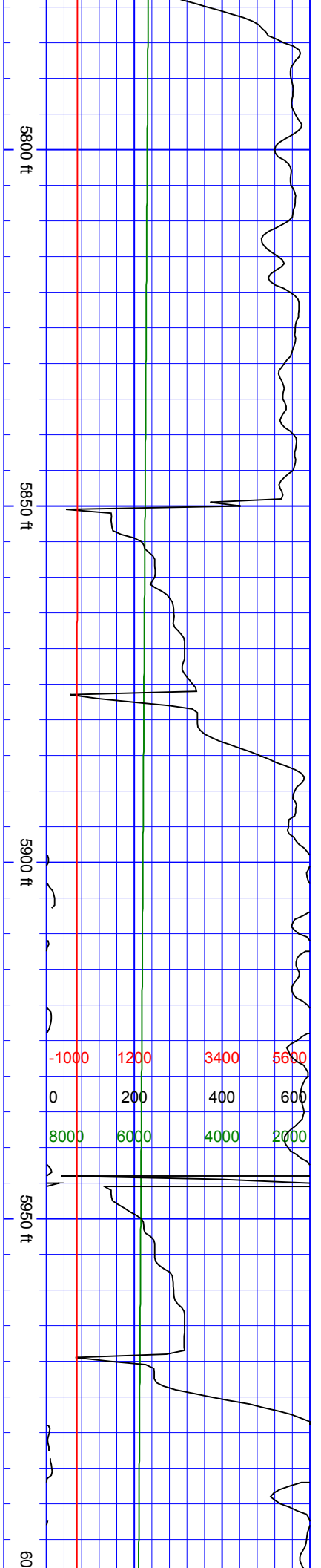


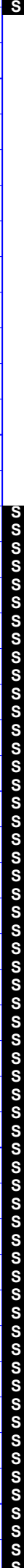
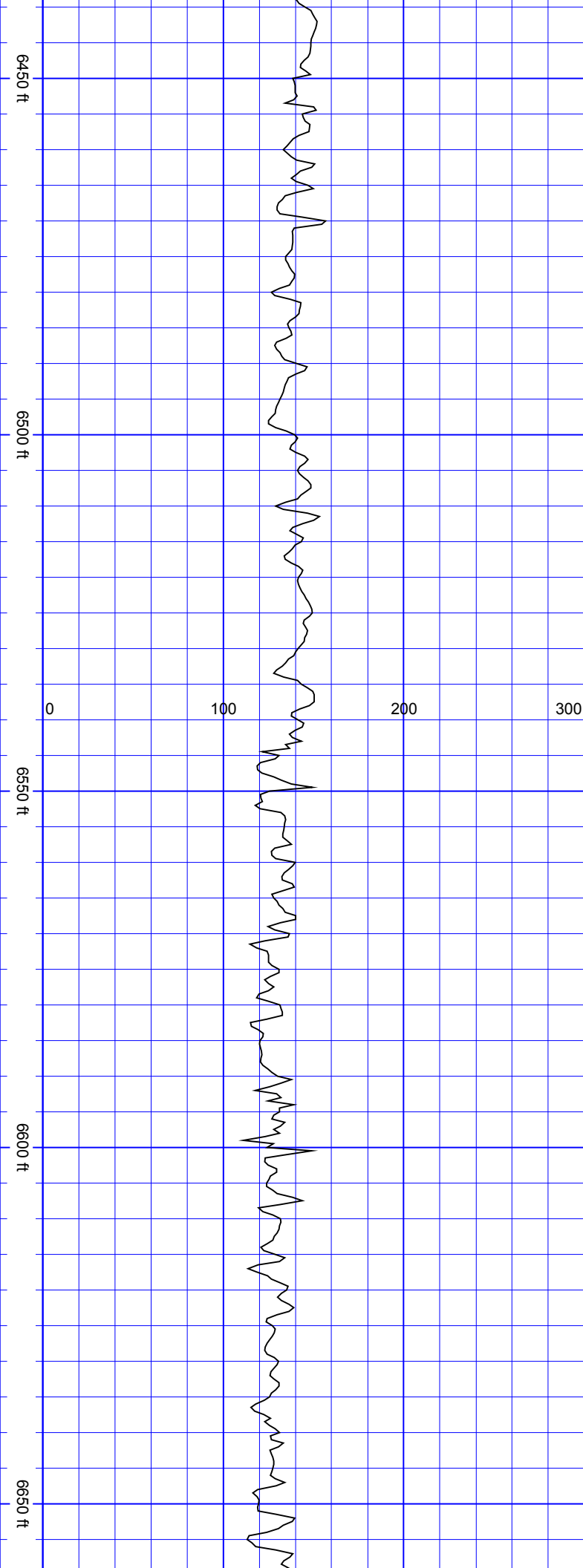


SurveyDepth:5780
TVD:5680.89 Inc:10.85
Azi:211.33 VertSec:-
222.23

SurveyDepth:5874
TVD:5773.12 Inc:11.43
Azi:209.75 VertSec:-
227.46

SurveyDepth:5969
TVD:5866.2 Inc:11.65
Azi:214.5 VertSec:-
233.44



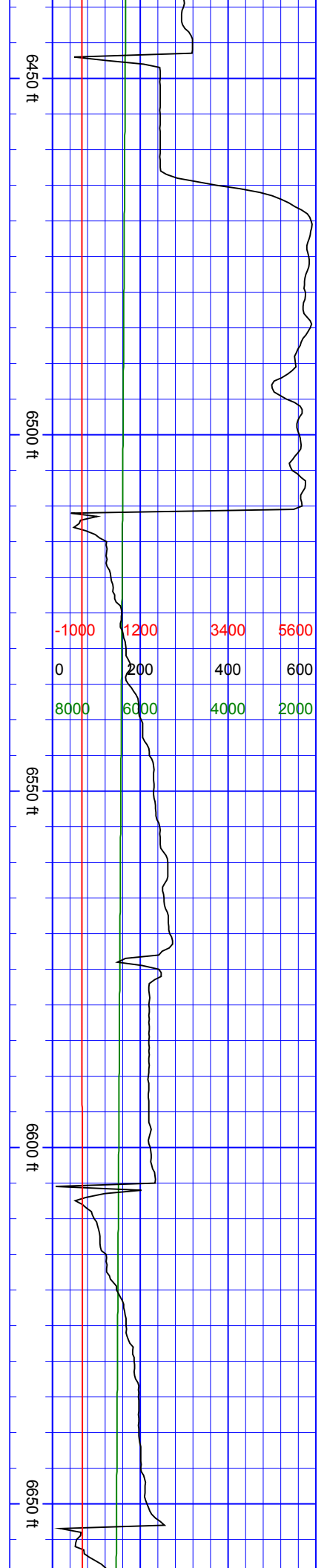


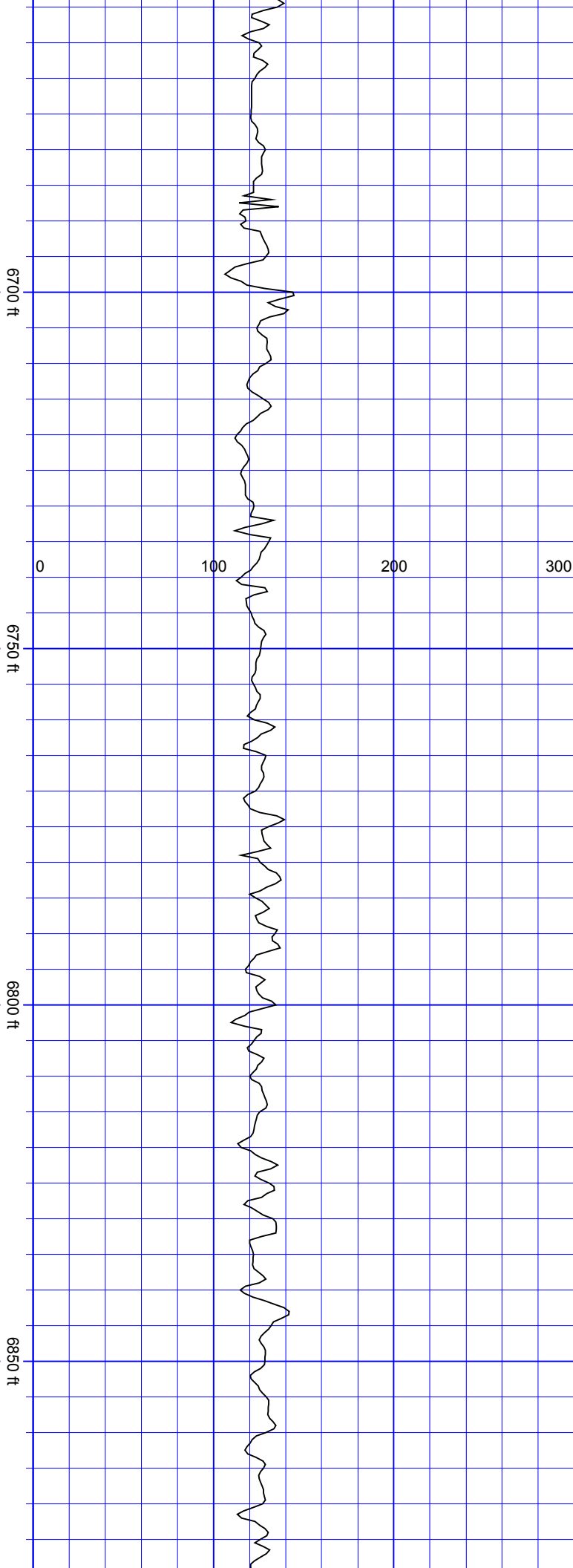
SurveyDepth:6441
TVD:6329.43 Inc:9.1
Azi:205.36 VertSec:-
254.57

SurveyDepth:6536
TVD:6423.21 Inc:9.49
Azi:185.76 VertSec:-
254.98

SurveyDepth:6583
TVD:6469.31 Inc:13.05
Azi:169.5 VertSec:-
252.26

SurveyDepth:6630
TVD:6514.7 Inc:17.01
Azi:159.74 VertSec:-
246.22





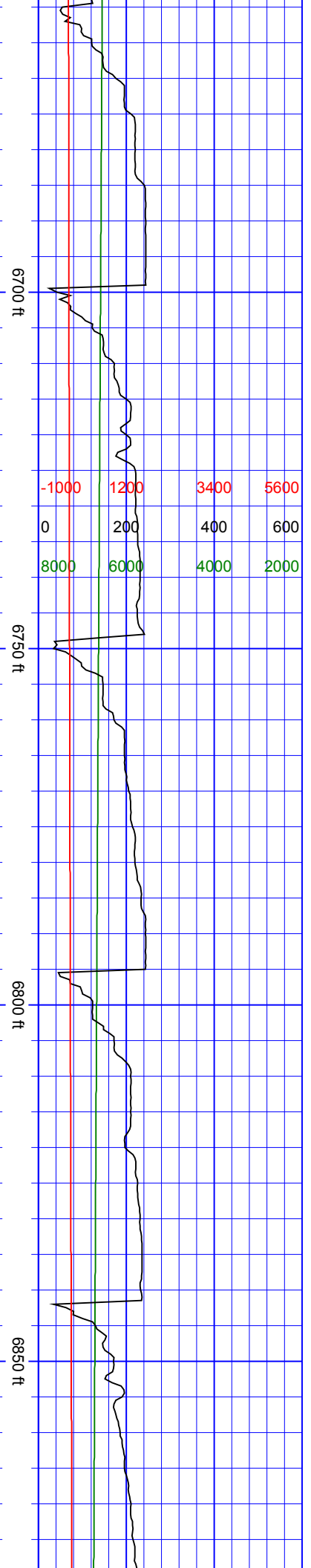
SurveyDepth:6677
TVD:6559.27 Inc:20
Azi:150.86 VertSec:-
236.9

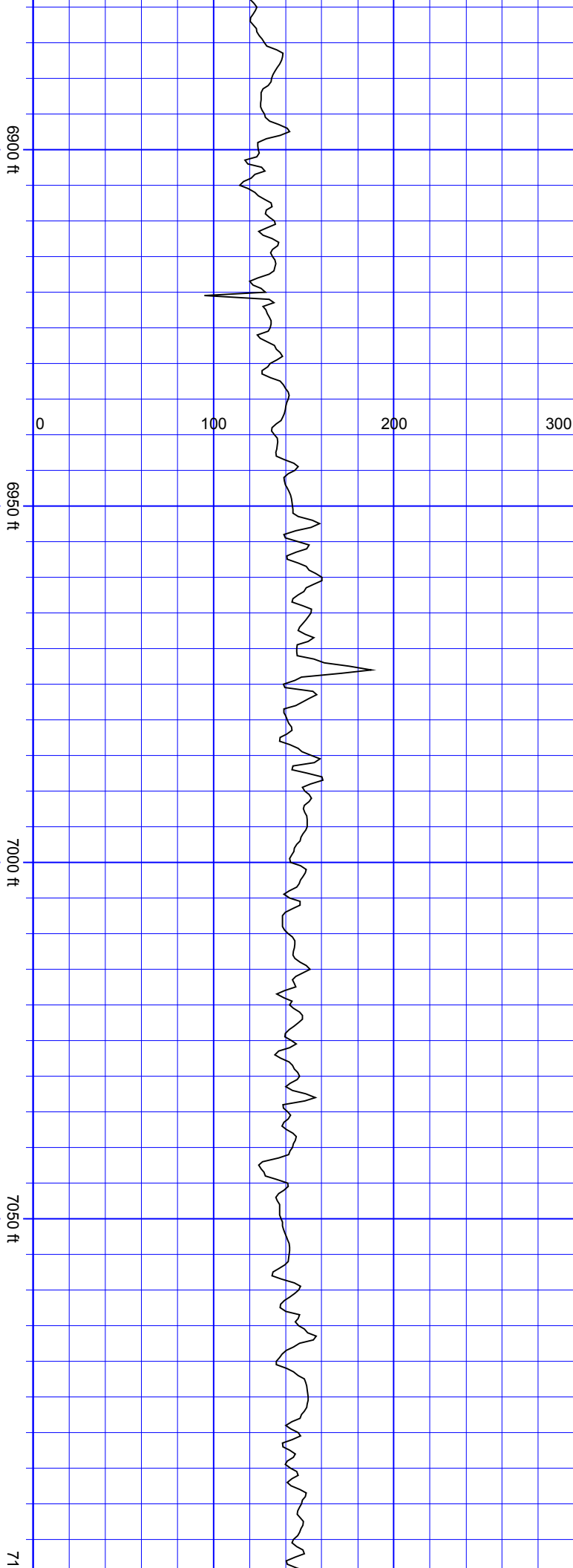
SurveyDepth:6724
TVD:6602.91 Inc:23.64
Azi:142.34 VertSec:-
224.04

SurveyDepth:6771
TVD:6645.26 Inc:27.73
Azi:138.38 VertSec:-
207.66

SurveyDepth:6819
TVD:6686.96 Inc:31.64
Azi:132.14 VertSec:-
187.38

SurveyDepth:6866
TVD:6725.99 Inc:36.08
Azi:125.9 VertSec:-
163.69



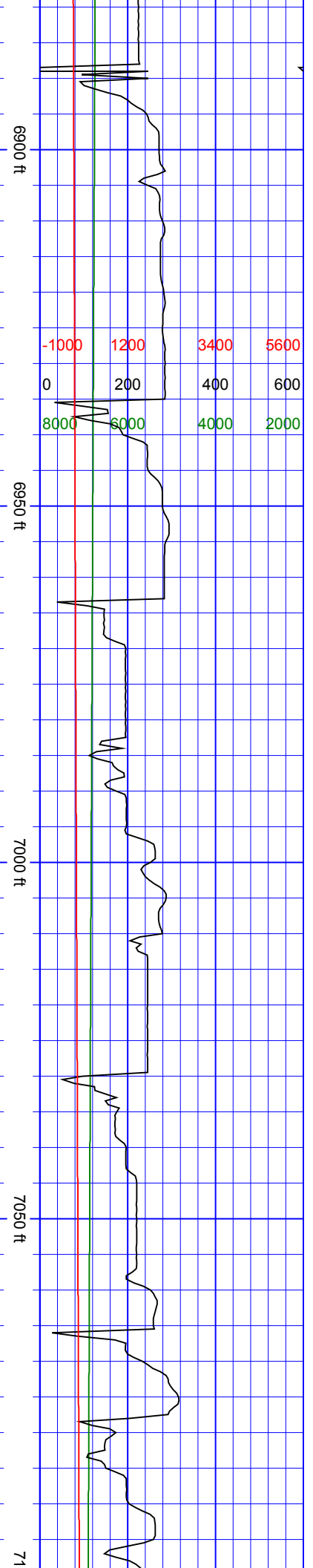


SurveyDepth:6914
TVD:6763.79 Inc:40.03
Azi:122.3 VertSec:-
135.94

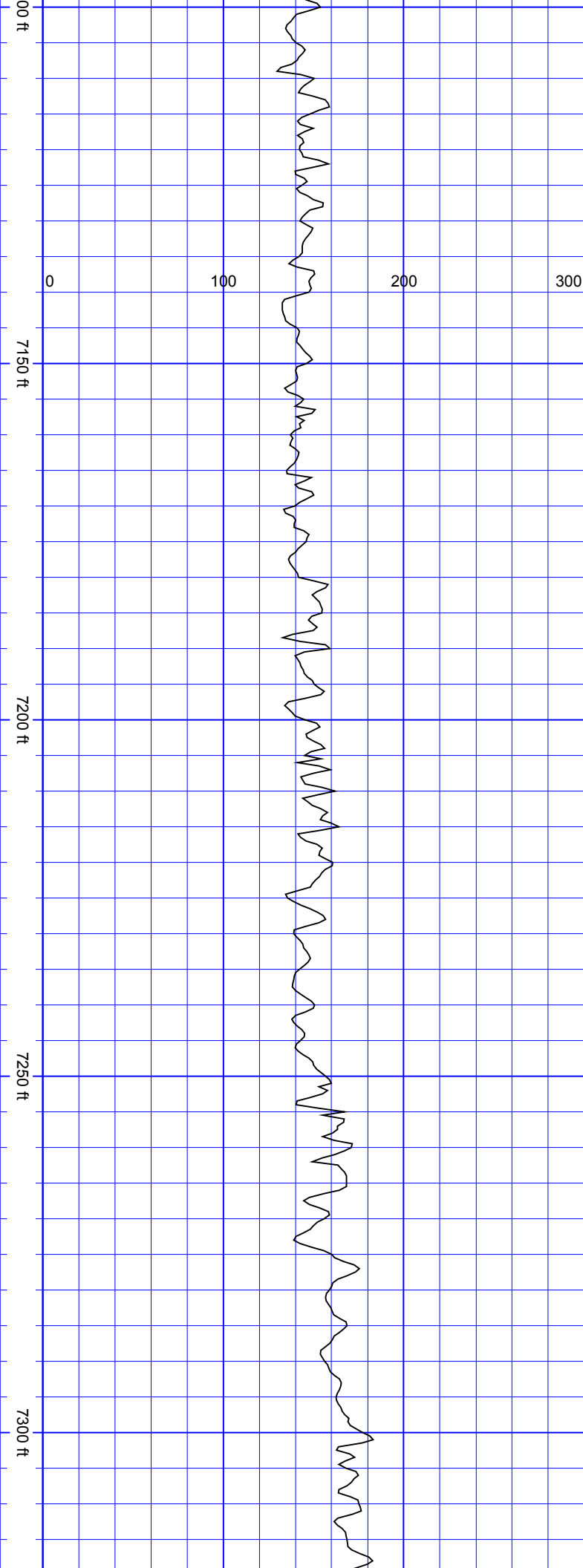
SurveyDepth:6961
TVD:6798.9 Inc:43.29
Azi:120.45 VertSec:-
106.16

SurveyDepth:7008
TVD:6832.64 Inc:44.96
Azi:116.59 VertSec:-
74.52

SurveyDepth:7055
TVD:6864.9 Inc:48.34
Azi:113.78 VertSec:-
41.03



-1000	1200	3400	5600
0	200	400	600
8000	6000	4000	2000



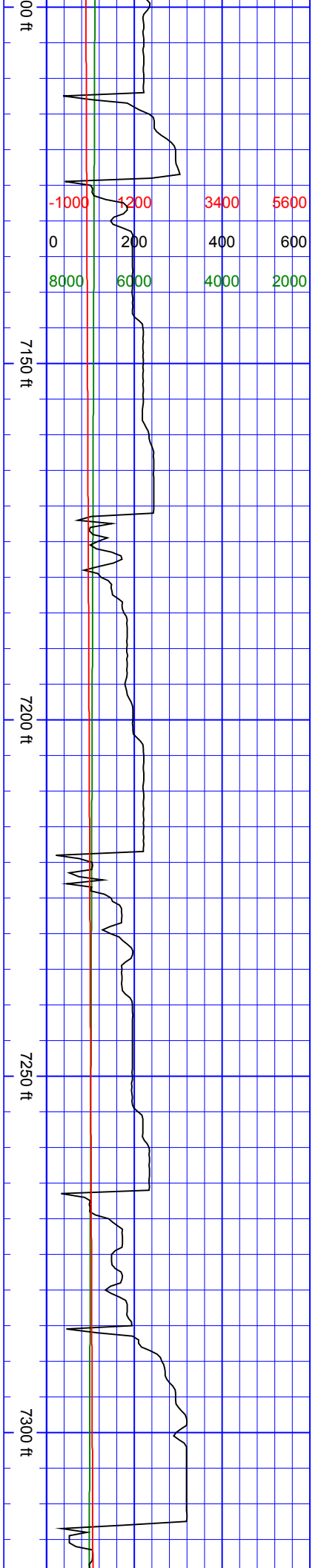
SurveyDepth:7102
TVD:6895.44 Inc:50.63
Azi:110.7 VertSec:-5.69

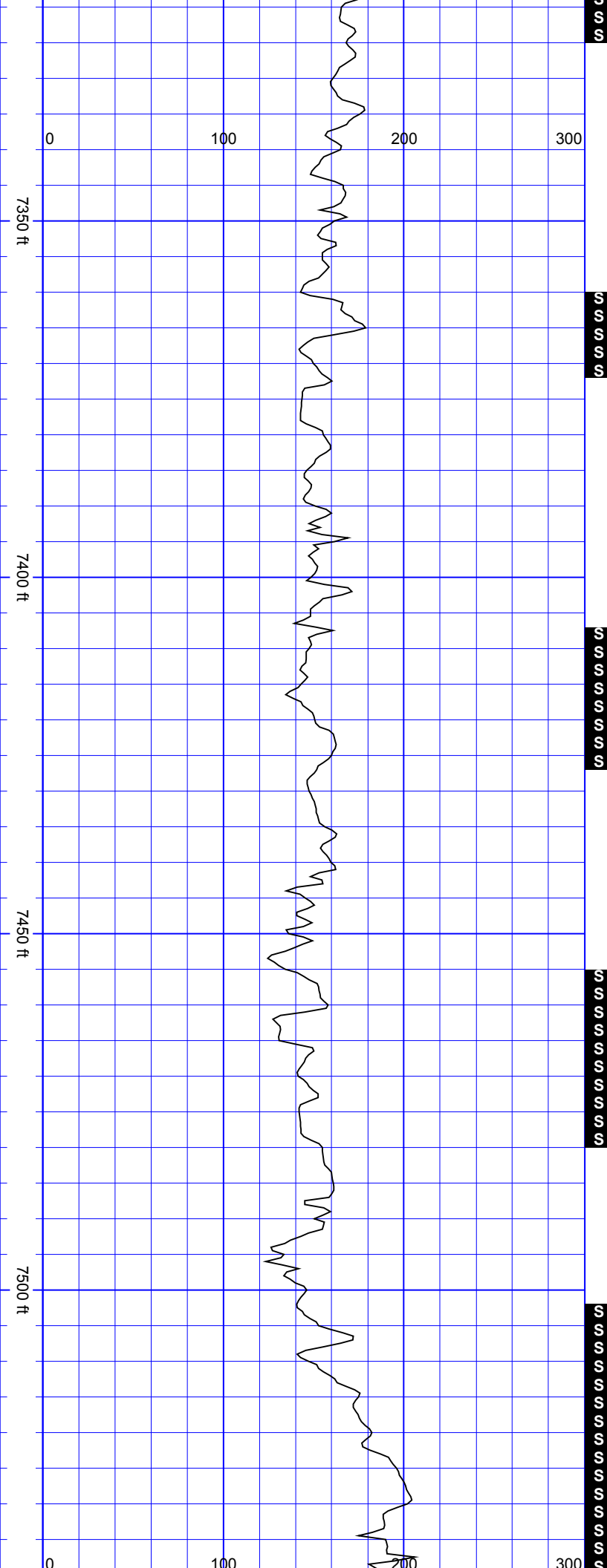
SurveyDepth:7149
TVD:6924.83 Inc:51.99
Azi:104.37
VertSec:30.88

SurveyDepth:7197
TVD:6953.93 Inc:53.48
Azi:96.37 VertSec:68.96

SurveyDepth:7244
TVD:6981.25 Inc:55.5
Azi:89.25
VertSec:106.47

SurveyDepth:7291
TVD:7007.06 Inc:57.88
Azi:88.02
VertSec:144.38





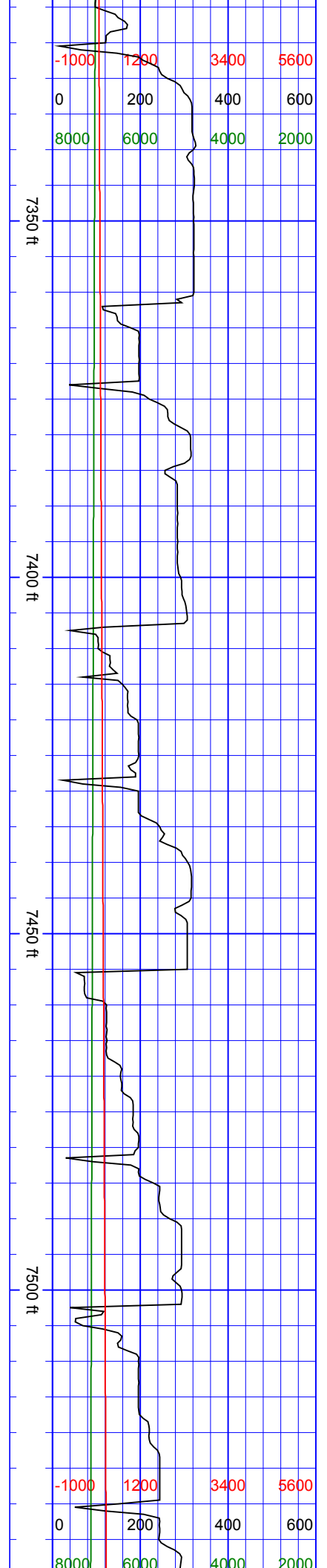
SurveyDepth:7338
TVD:7031.84 Inc:58.49
Azi:87.14
VertSec:182.73

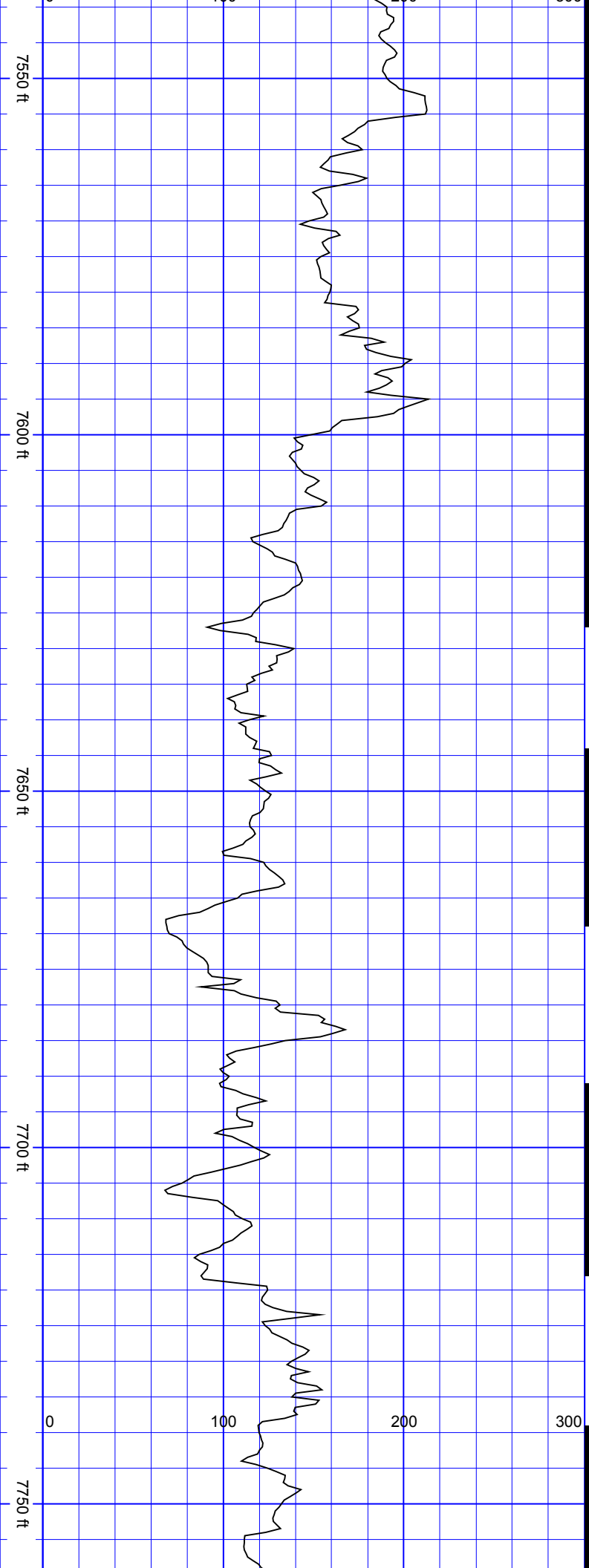
SurveyDepth:7386
TVD:7056.53 Inc:59.59
Azi:87.85
VertSec:222.23

SurveyDepth:7433
TVD:7079.5 Inc:61.88
Azi:87.94
VertSec:261.66

SurveyDepth:7480
TVD:7100.76 Inc:64.34
Azi:86.7 VertSec:301.86

SurveyDepth:7527
TVD:7120.18 Inc:66.84
Azi:85.39
VertSec:342.61



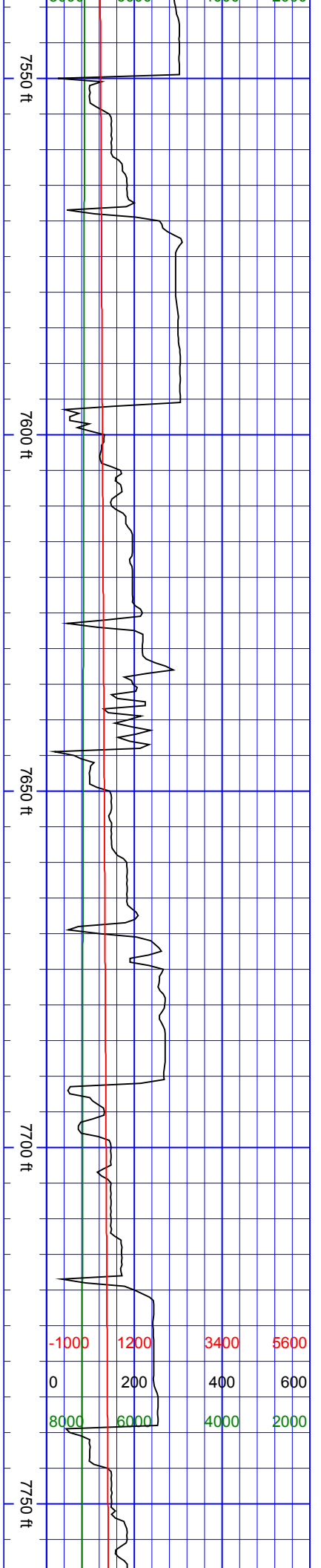


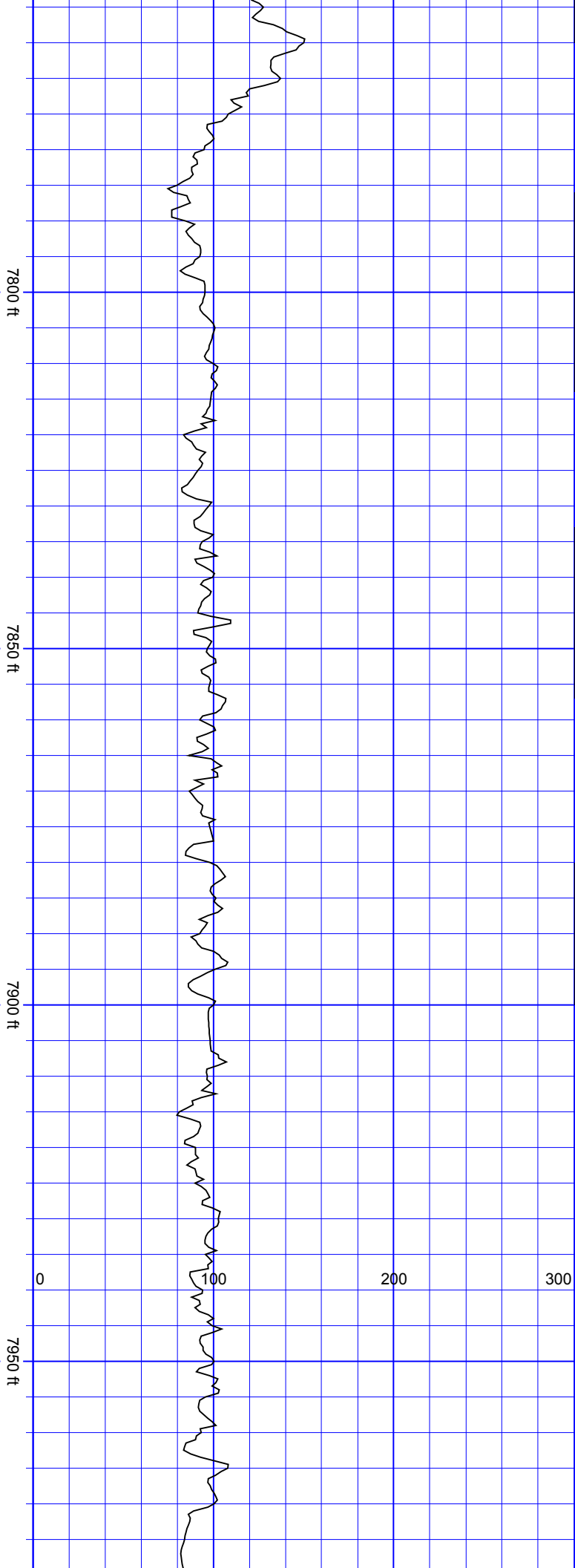
SurveyDepth:7575
TVD:7138.12 Inc:69.26
Azi:84.86
VertSec:384.79

SurveyDepth:7622
TVD:7153.68 Inc:72.07
Azi:85.83
VertSec:426.85

SurveyDepth:7670
TVD:7167.23 Inc:75.15
Azi:86.53
VertSec:470.74

SurveyDepth:7717
TVD:7178.05 Inc:78.22
Azi:87.14
VertSec:514.49



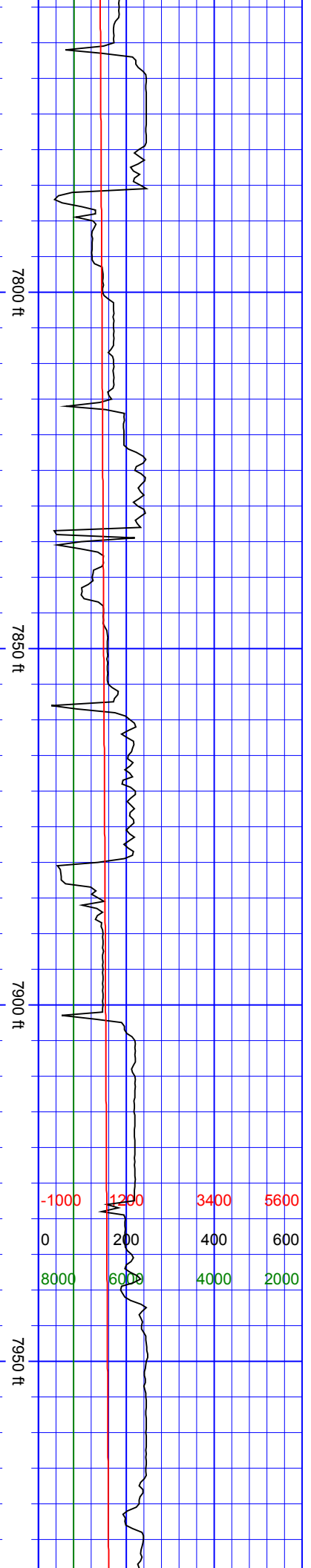


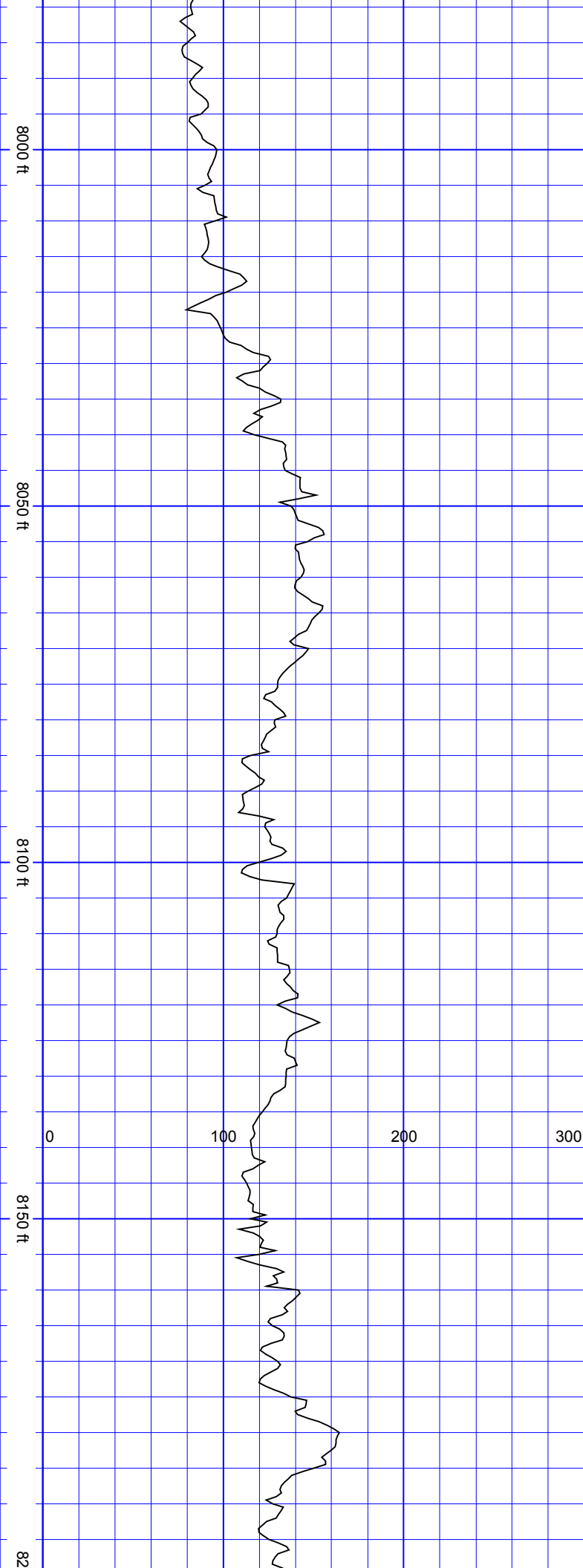
SurveyDepth:7764
TVD:7186.39 Inc:81.34
Azi:85.91
VertSec:558.65

SurveyDepth:7811
TVD:7191.87 Inc:85.25
Azi:85.03
VertSec:602.95

SurveyDepth:7859
TVD:7194.67 Inc:88.07
Azi:85.56
VertSec:648.39

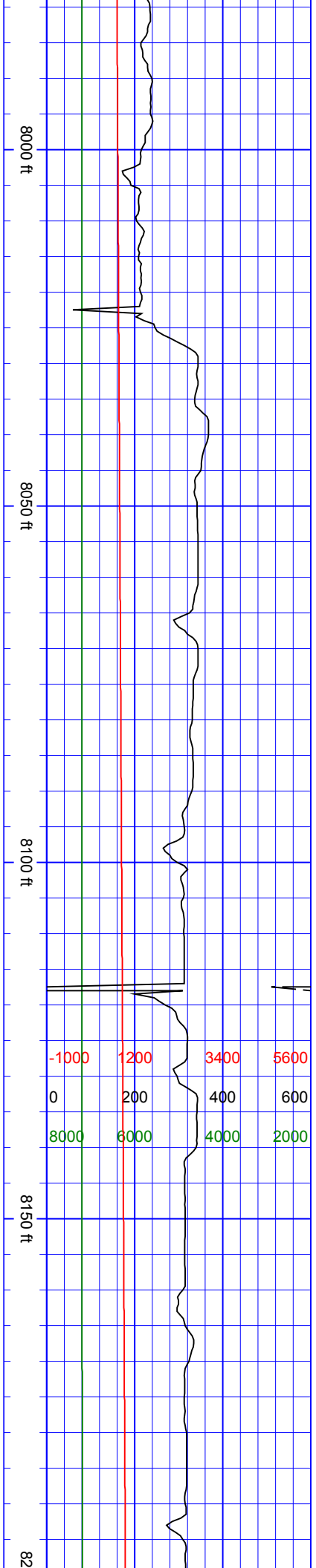
SurveyDepth:7953
TVD:7195.46 Inc:90.97
Azi:86.88
VertSec:737.99

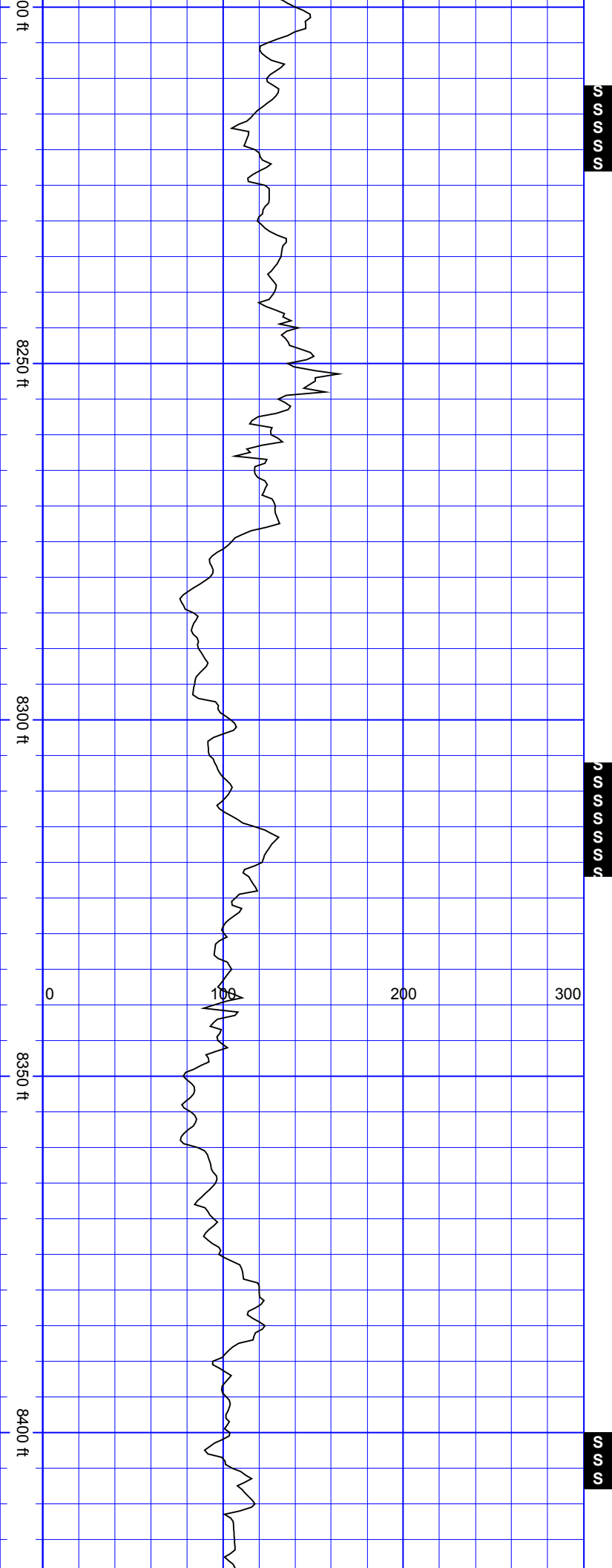




SurveyDepth:8048
TVD:7193.34 Inc:91.58
Azi:86.7 VertSec:828.82

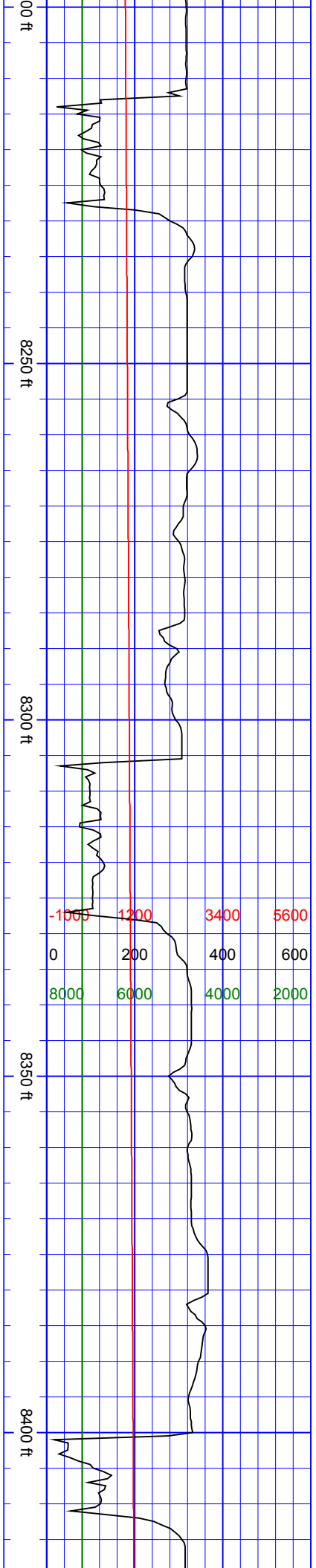
SurveyDepth:8142
TVD:7190.35 Inc:92.07
Azi:86 VertSec:918.45

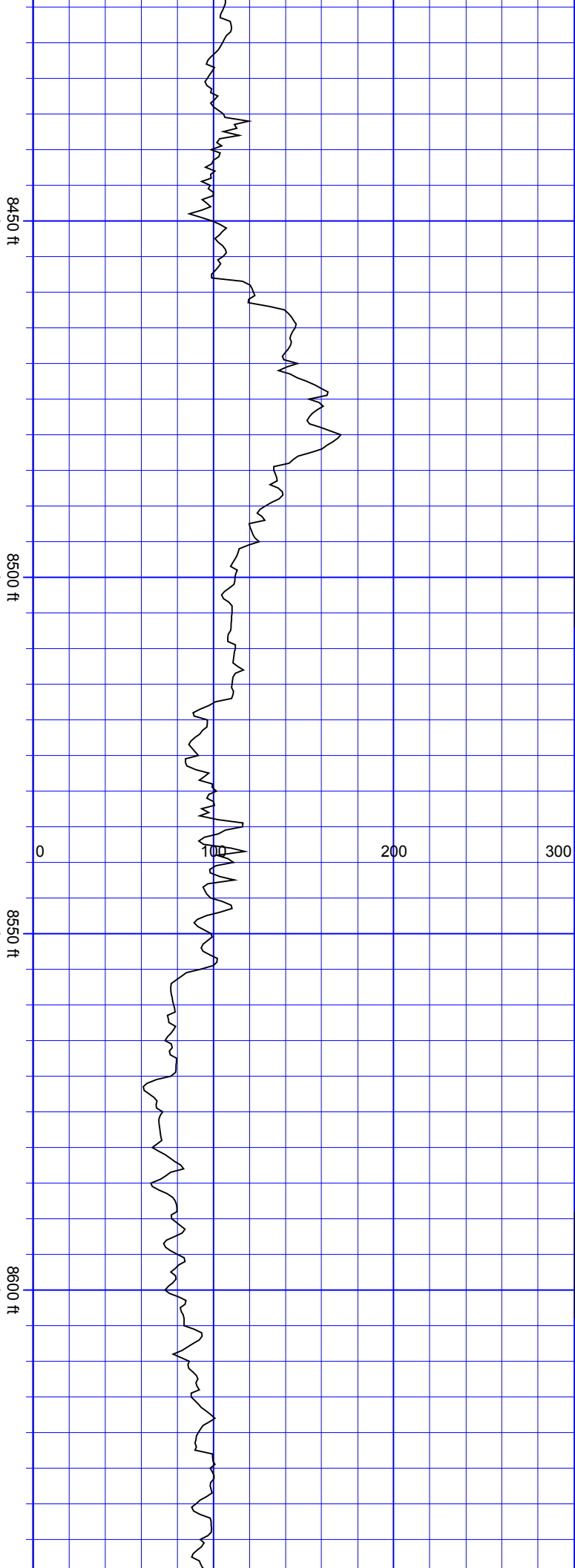




SurveyDepth:8237
TVD:7186.6 Inc:92.46
Azi:86.97
VertSec:1009.08

SurveyDepth:8331
TVD:7183.1 Inc:91.8
Azi:88.73
VertSec:1099.4





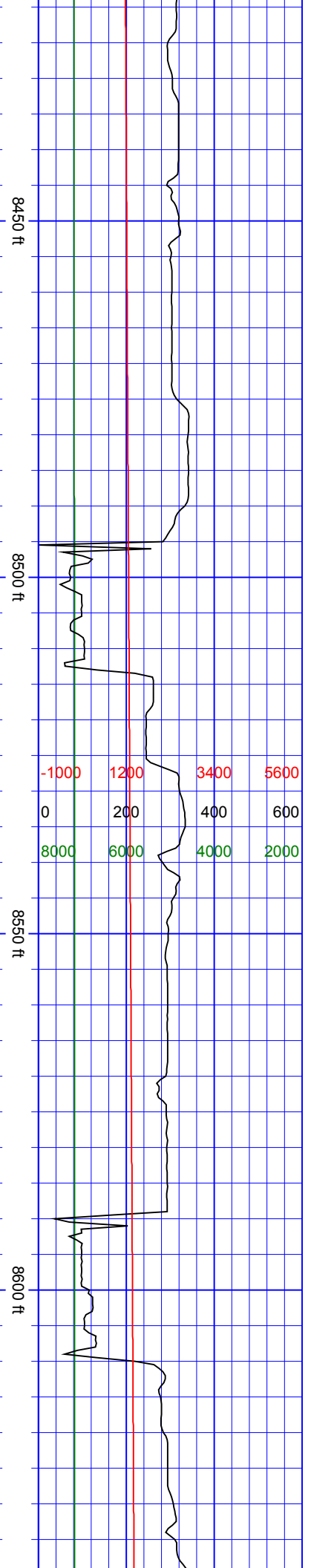
SurveyDepth:8426
TVD:7179.97 Inc:91.98
Azi:89.08
VertSec:1191.16

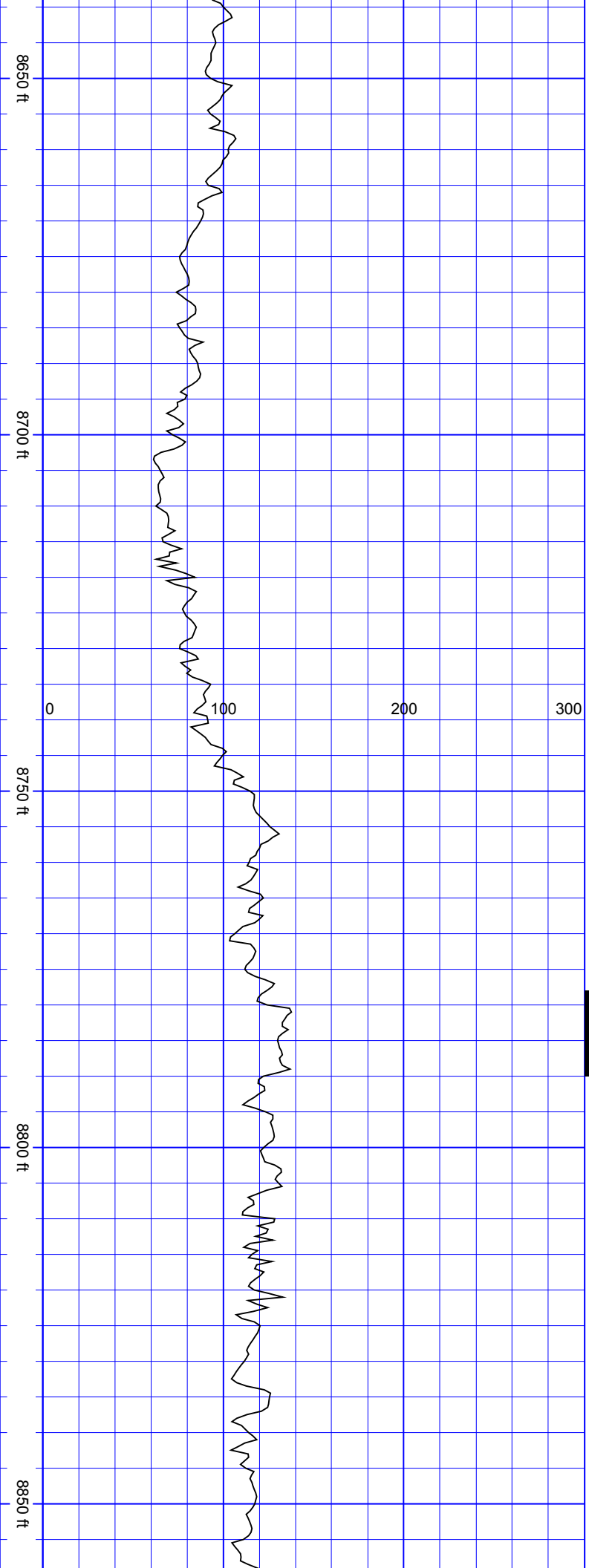
SurveyDepth:8520
TVD:7177.59 Inc:90.92
Azi:89.52
VertSec:1282.14

SurveyDepth:8615
TVD:7176.31 Inc:90.62
Azi:91.01
VertSec:1374.49

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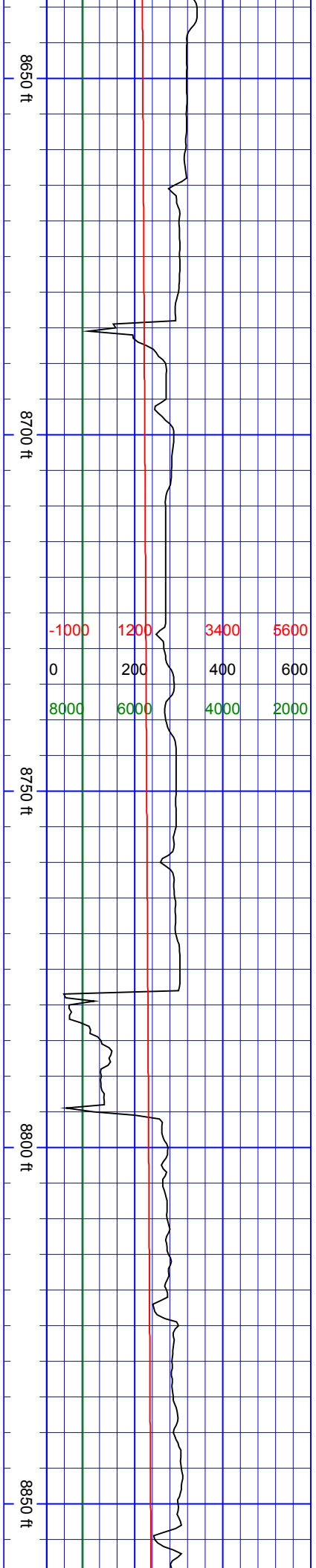


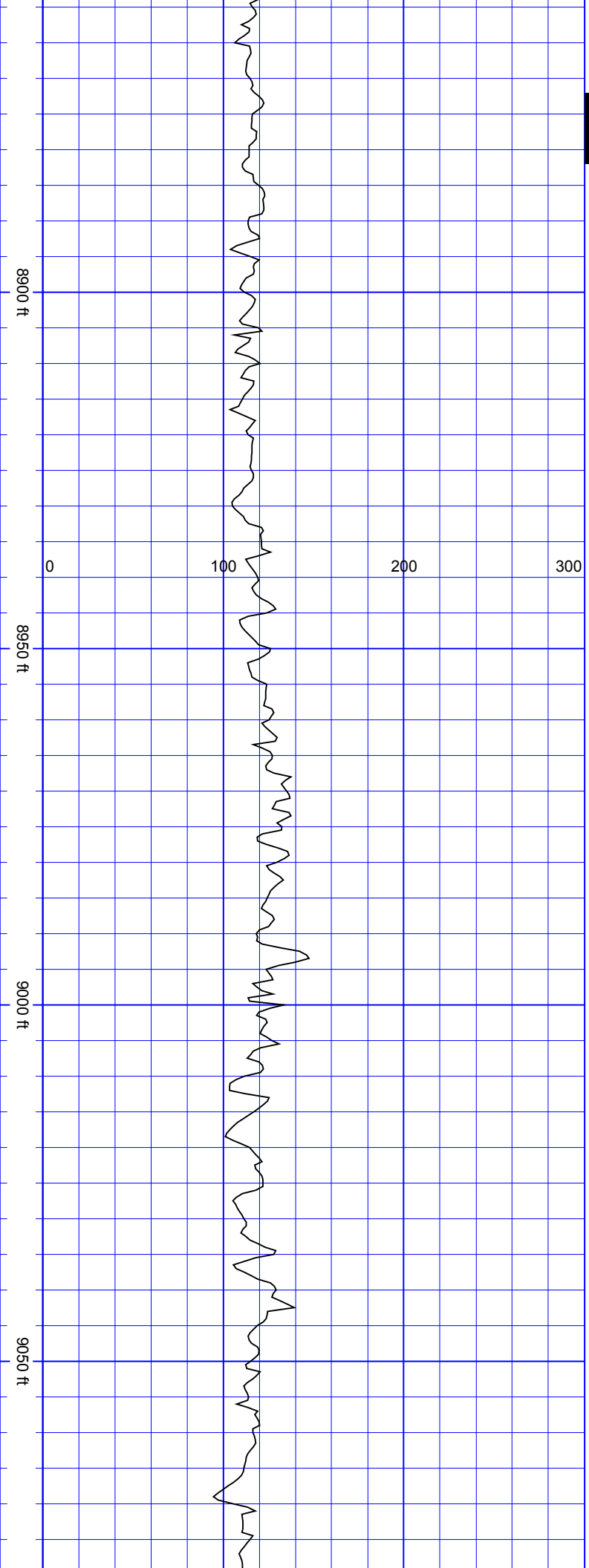


SurveyDepth:8709
TVD:7174.98 Inc:91.01
Azi:90.22
VertSec:1466.01

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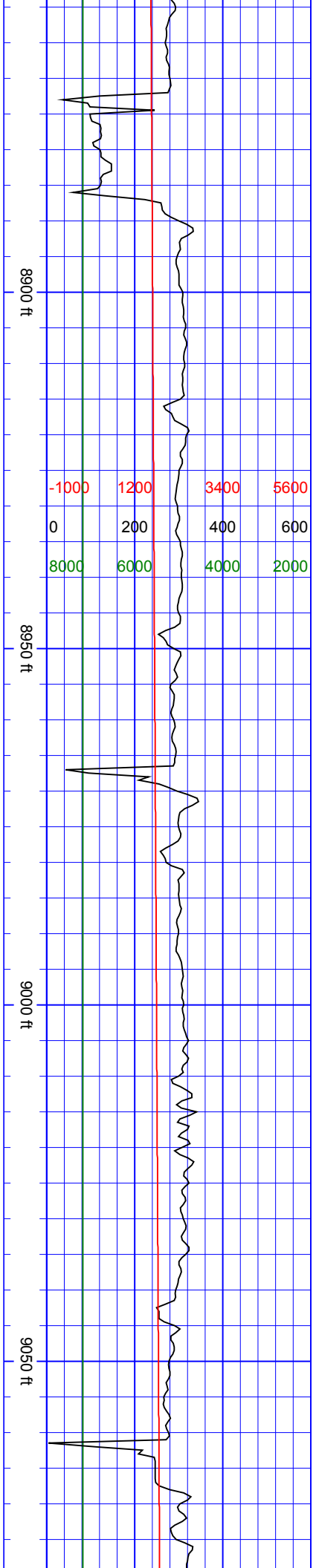
SurveyDepth:8803
TVD:7174.33 Inc:89.78
Azi:91.71
VertSec:1557.66

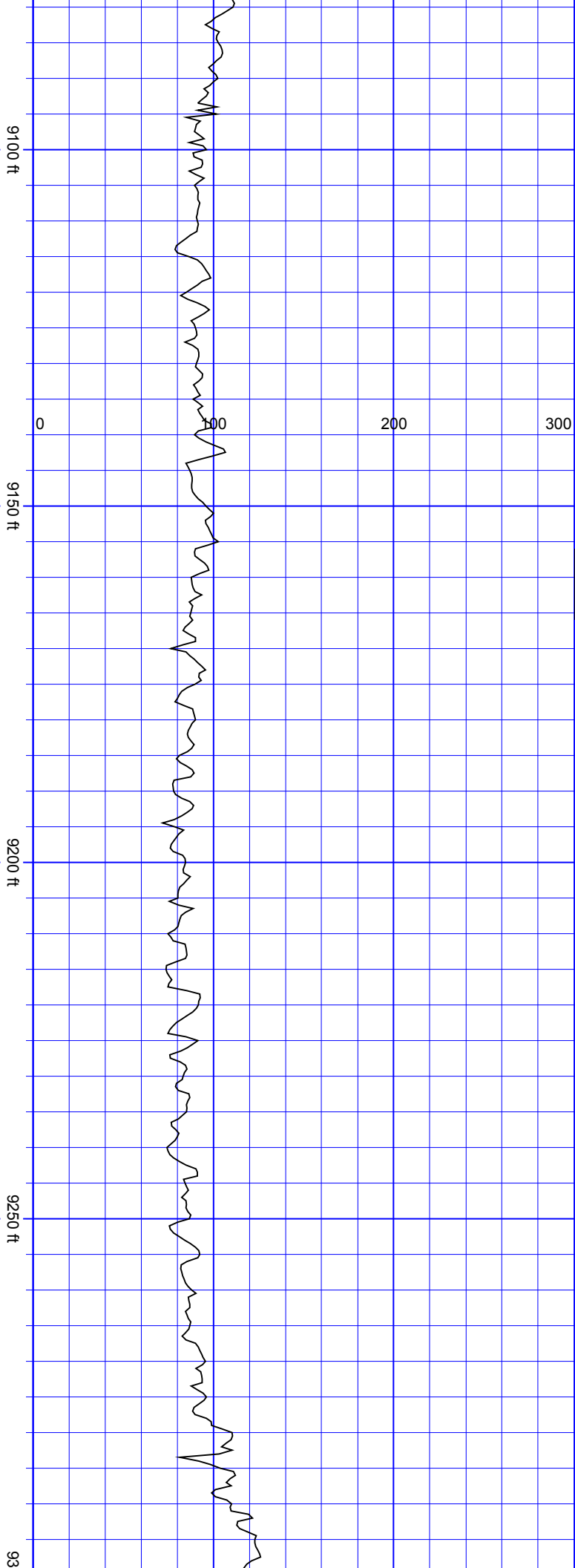




SurveyDepth:8898
TVD:7175.38 Inc:88.95
Azi:91.28
VertSec:1650.47

SurveyDepth:8992
TVD:7177.04 Inc:89.03
Azi:90.92
VertSec:1742.16



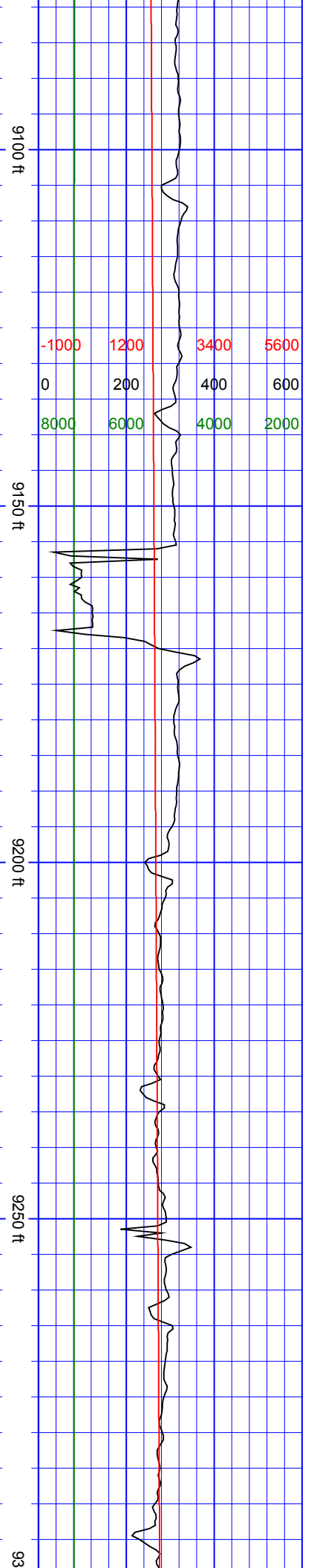


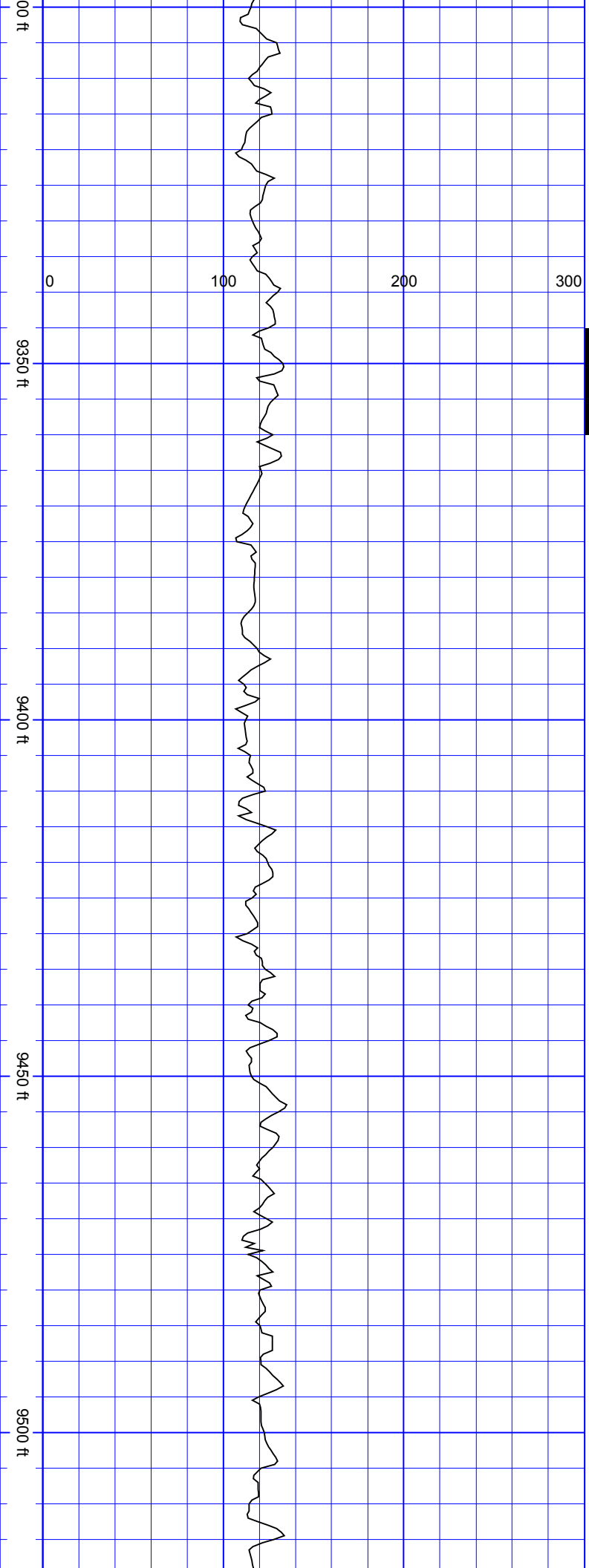
SurveyDepth:9087
TVD:7178.24 Inc:89.52
Azi:91.01
VertSec:1834.78

SurveyDepth:9181
TVD:7178.96 Inc:89.6
Azi:89.25
VertSec:1926.12

SurveyDepth:9276
TVD:7178.67 Inc:90.75
Azi:90.84
VertSec:2018.39

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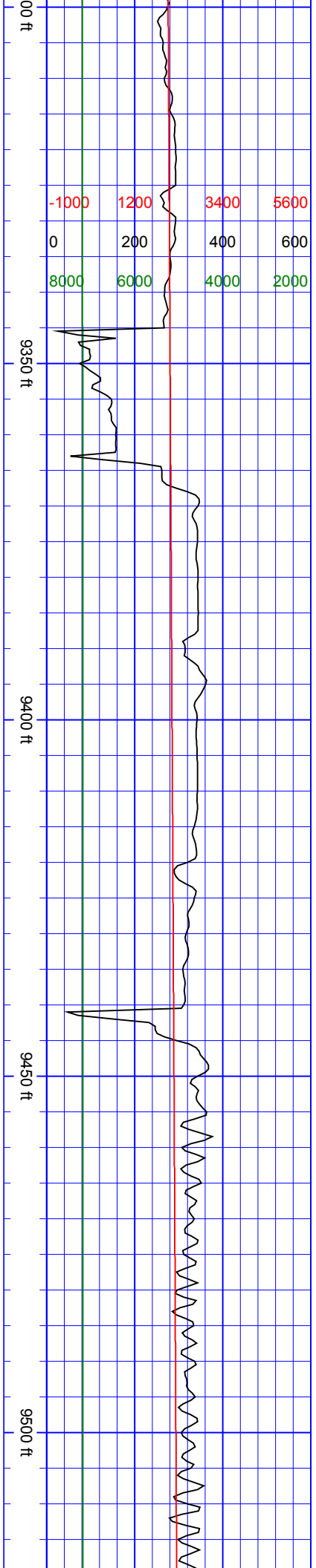


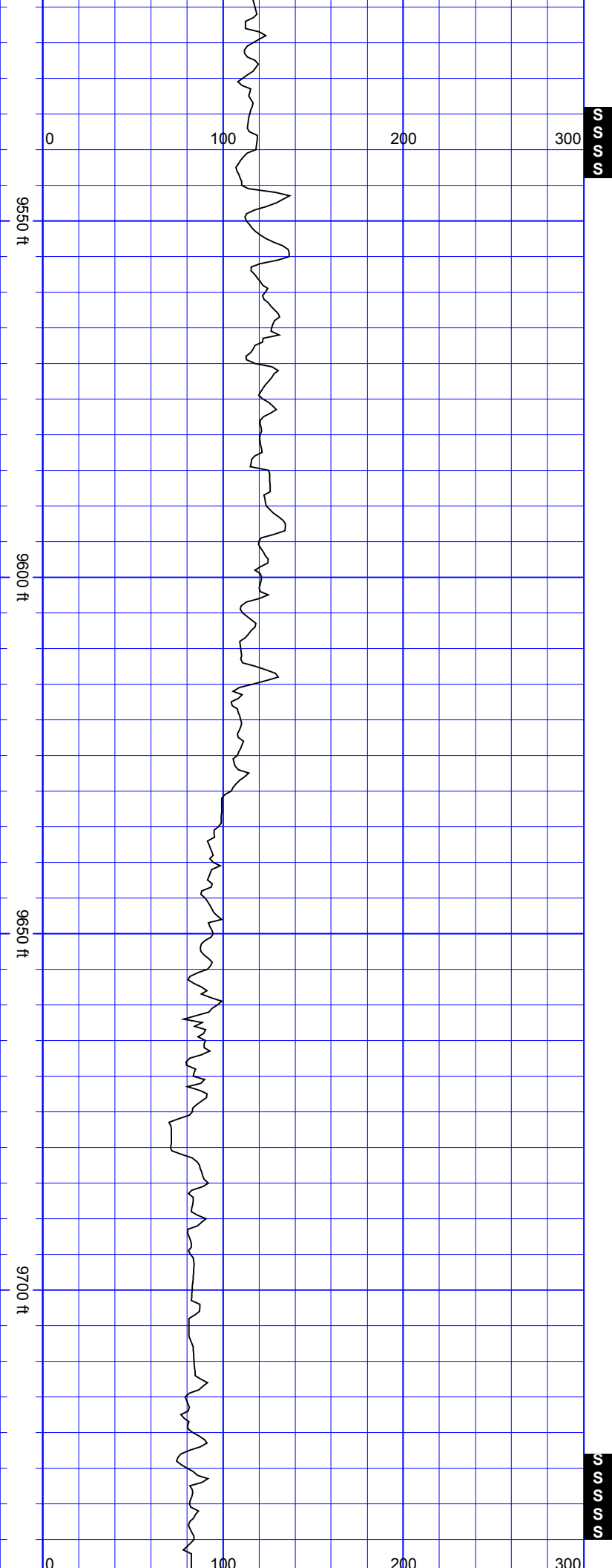


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SurveyDepth:9371
TVD:7178.27 Inc:89.74
Azi:87.94
VertSec:2110.39

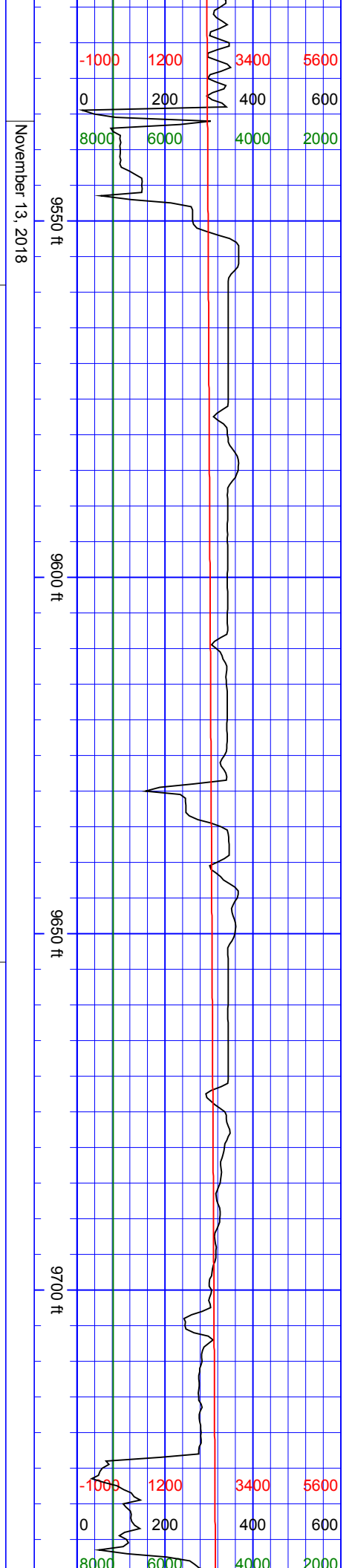
SurveyDepth:9465
TVD:7178.15 Inc:90.4
Azi:88.9
VertSec:2201.03



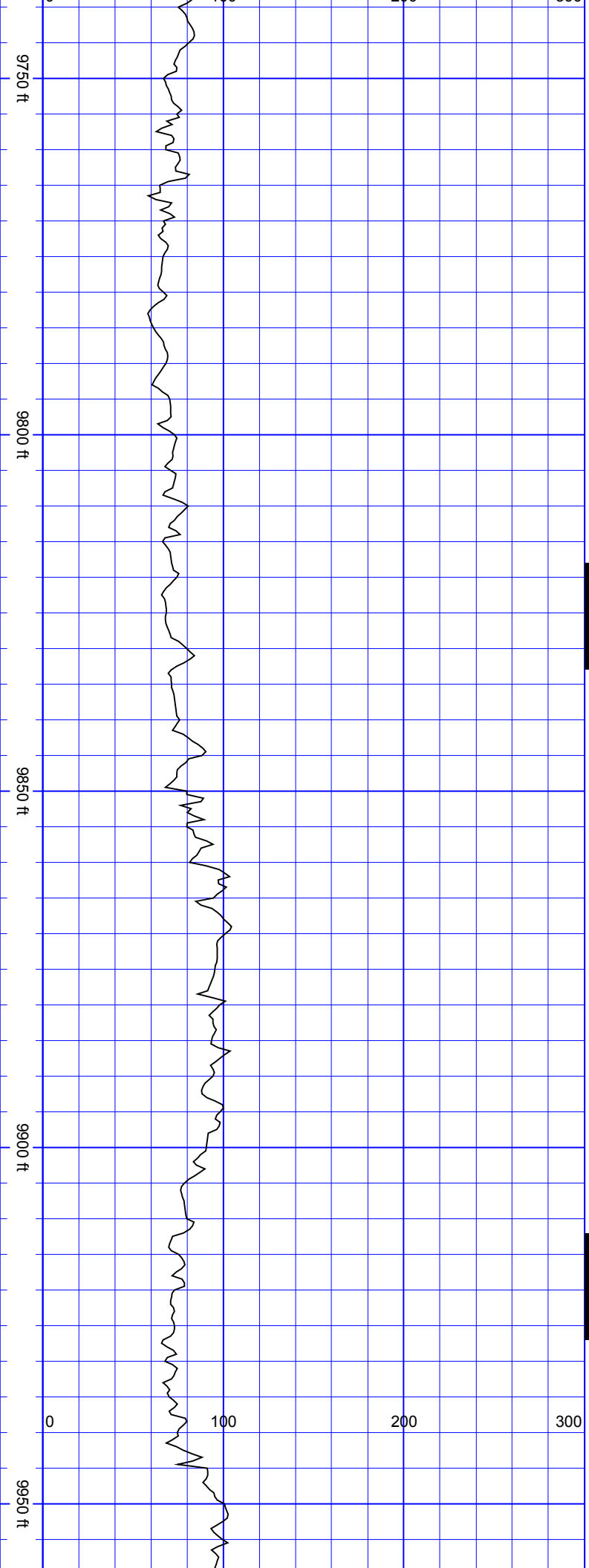


SurveyDepth:9559
TVD:7177.93 Inc:89.87
Azi:89.34
VertSec:2291.97

SurveyDepth:9654
TVD:7177.64 Inc:90.48
Azi:89.34
VertSec:2383.96



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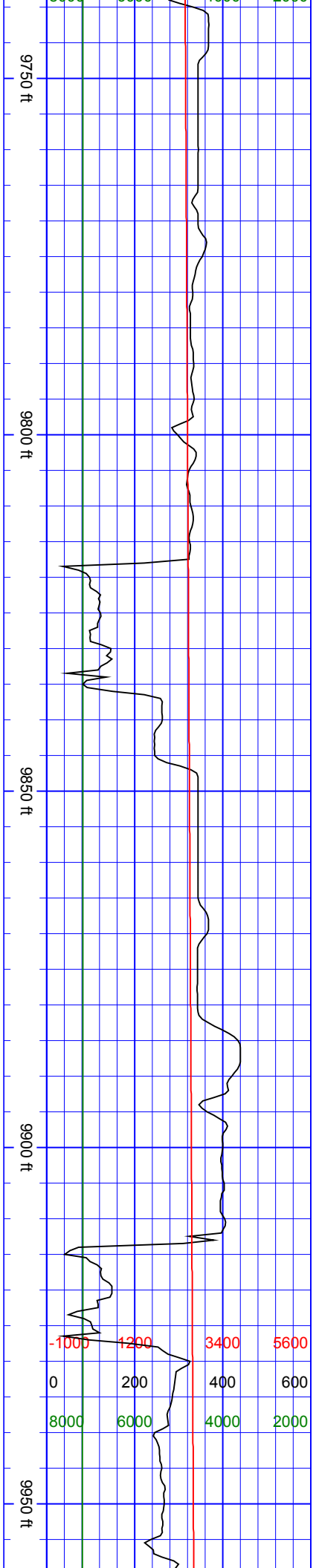
SurveyDepth:9749
TVD:7177.09 Inc:90.18
Azi:90.04
VertSec:2476.1

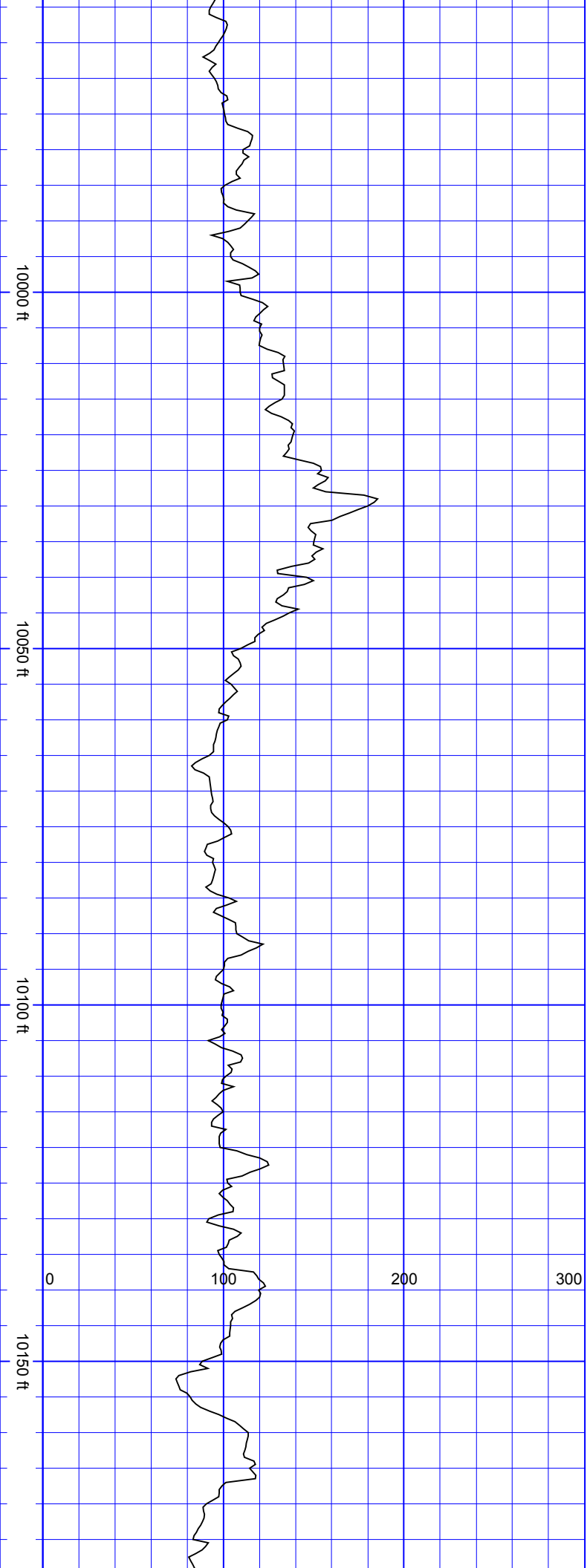
SurveyDepth:9843
TVD:7177.27 Inc:89.6
Azi:89.25
VertSec:2567.24

SurveyDepth:9937
TVD:7178.36 Inc:89.08
Azi:89.17
VertSec:2658.21

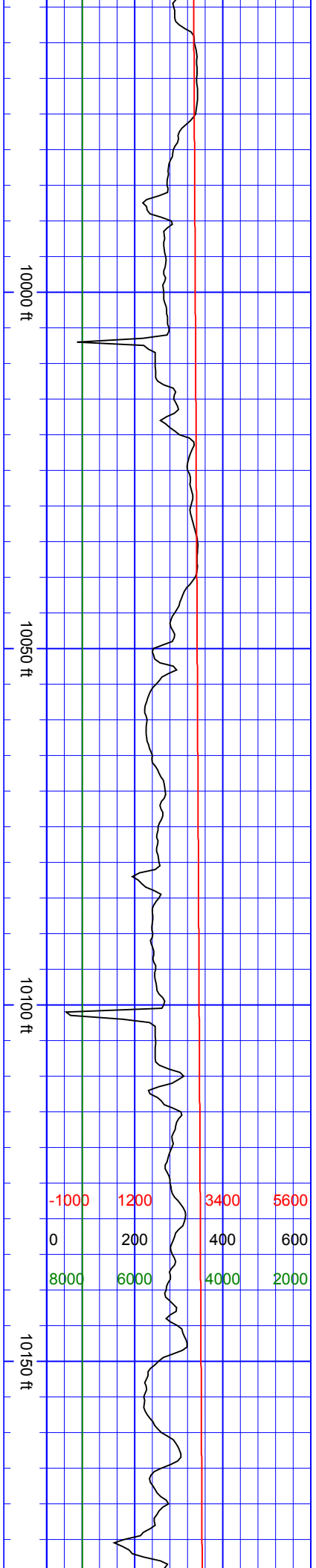
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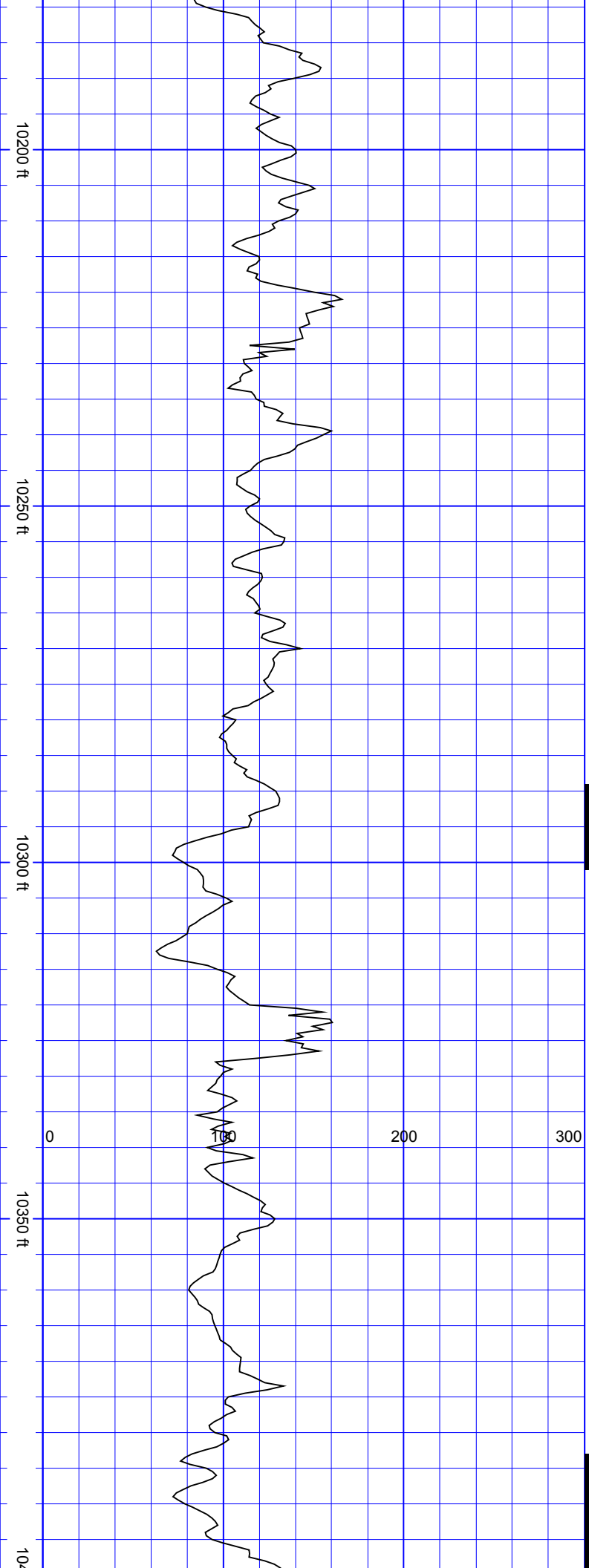
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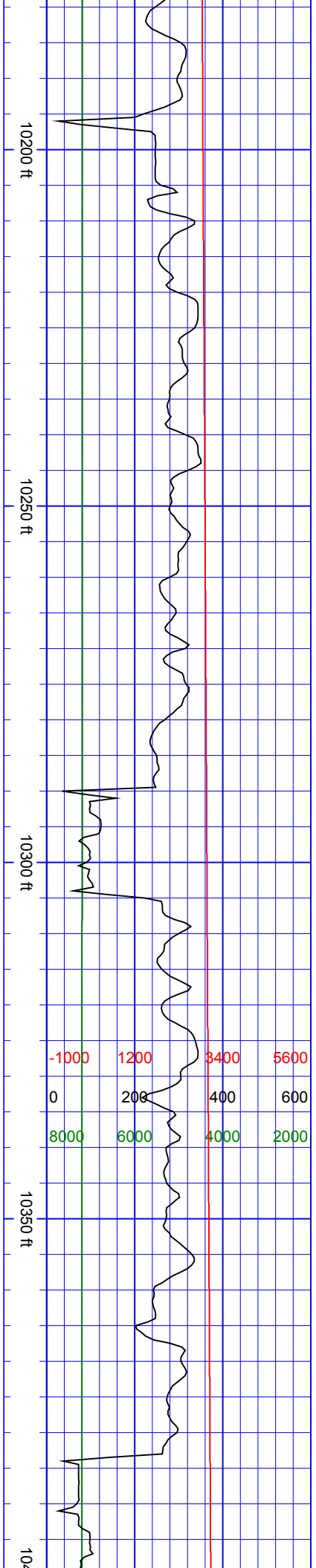
SurveyDepth:10031 TVD:7180.04 Inc:88.86 Azi:89.08 VertSec:2749.13
SurveyDepth:10126 TVD:7182.04 Inc:88.73 Azi:88.55 VertSec:2840.89

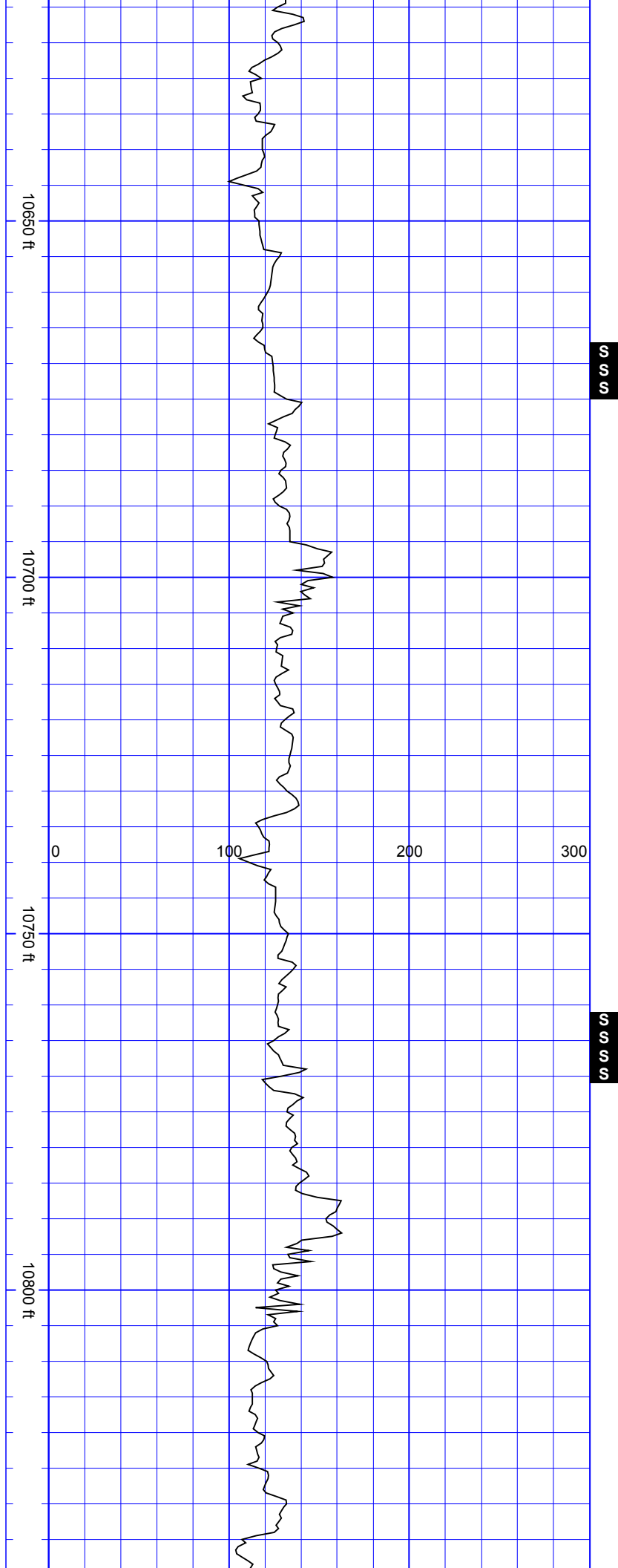




SurveyDepth:10220
TVD:7184.92 Inc:87.76
Azi:88.37
VertSec:2931.5

SurveyDepth:10314
TVD:7189.46 Inc:86.7
Azi:90.22
VertSec:3022.39



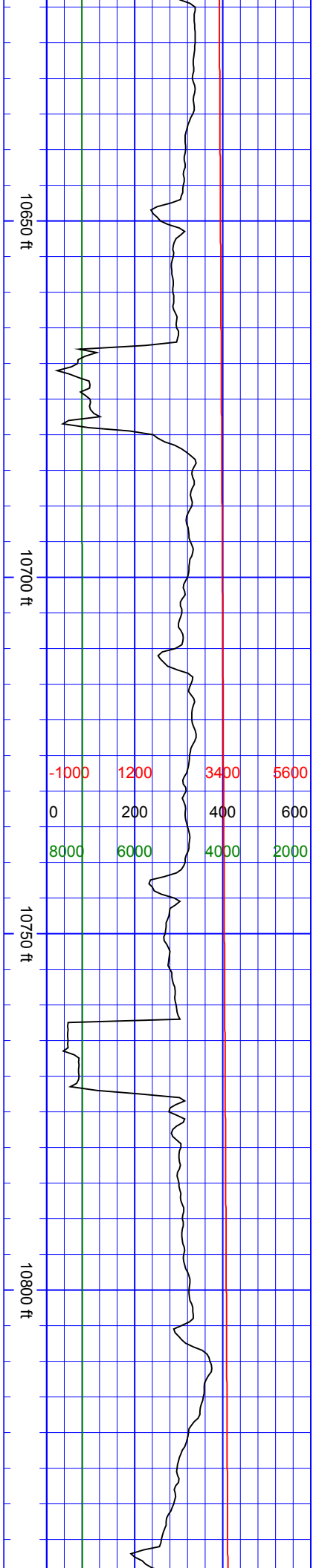


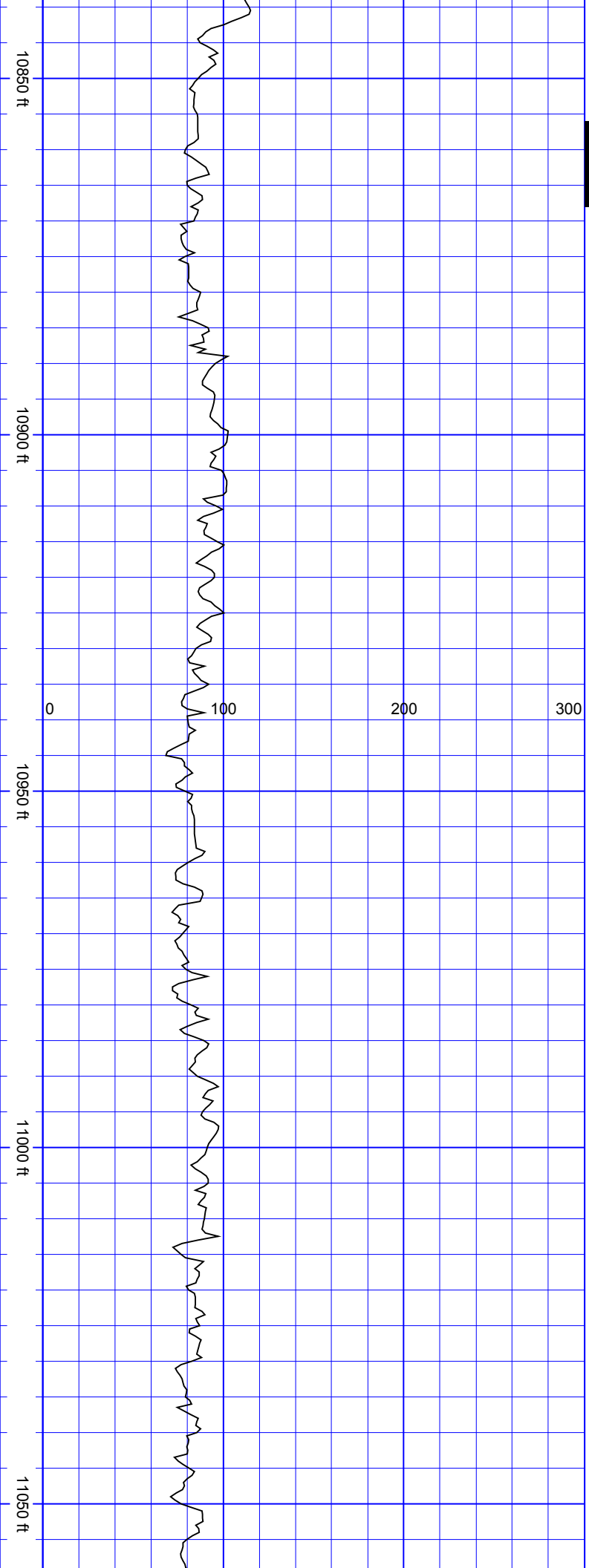
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SurveyDepth:10692
TVD:7189.32 Inc:92.77
Azi:89.87
VertSec:3390.32

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SurveyDepth:10787
TVD:7185.35 Inc:92.02
Azi:88.29
VertSec:3482.12

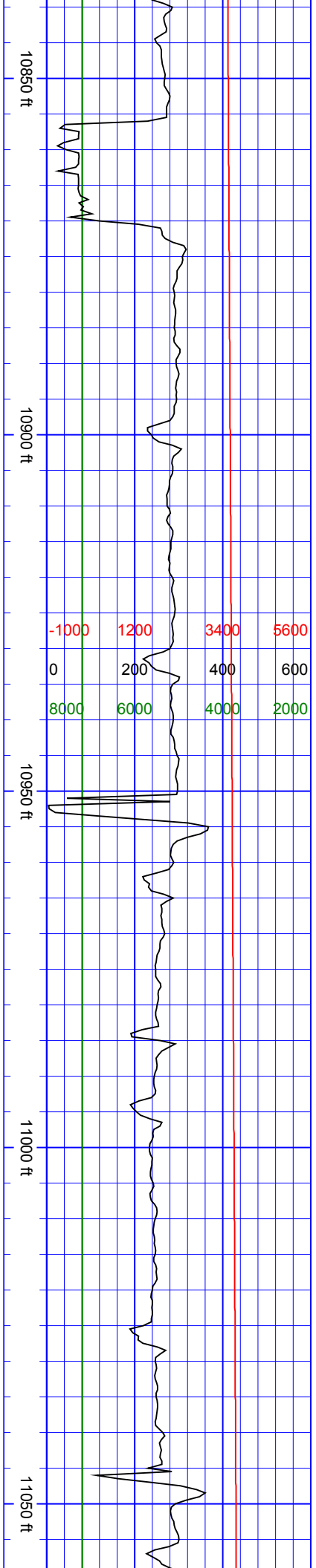


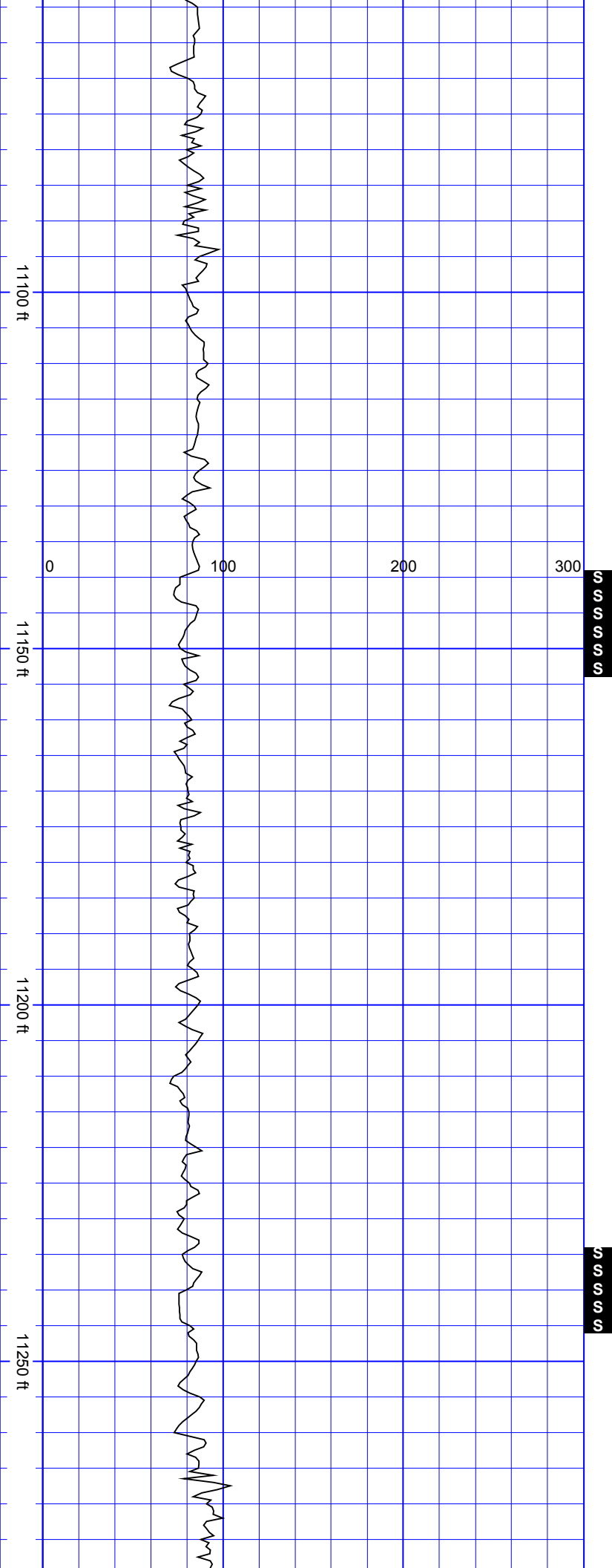


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SurveyDepth:10881
TVD:7183.52 Inc:90.22
Azi:88.9
VertSec:3572.81

SurveyDepth:10976
TVD:7182.45 Inc:91.06
Azi:88.37
VertSec:3664.5

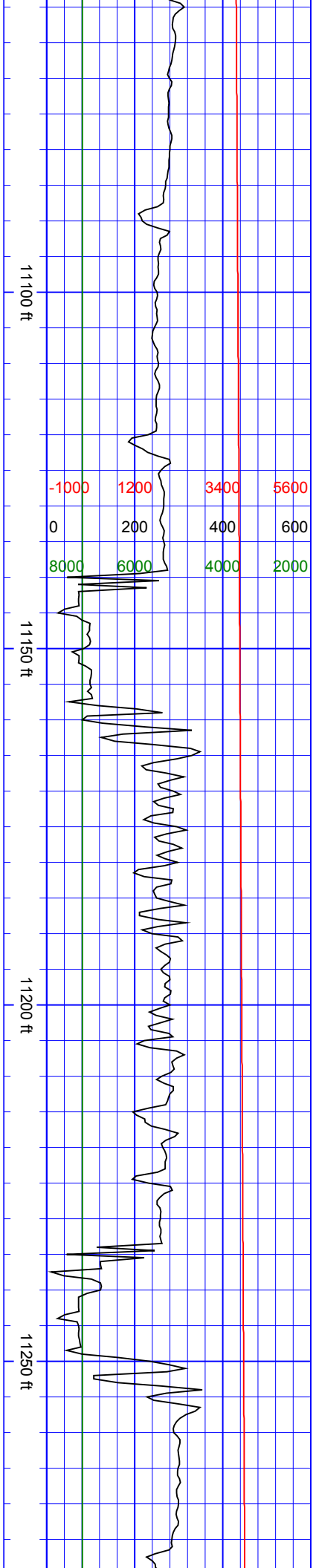


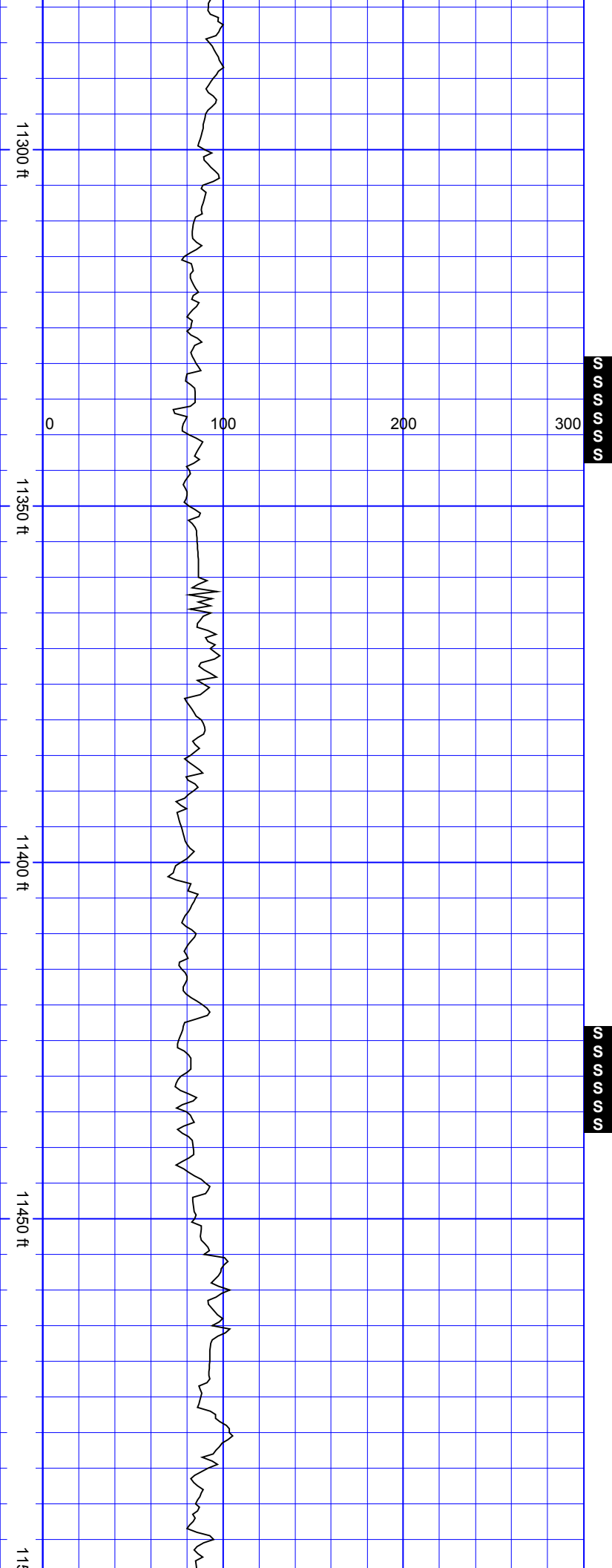


SurveyDepth:11070
TVD:7181.33 Inc:90.31
Azi:86.27
VertSec:3754.63

SurveyDepth:11165
TVD:7180.71 Inc:90.44
Azi:88.29
VertSec:3845.71

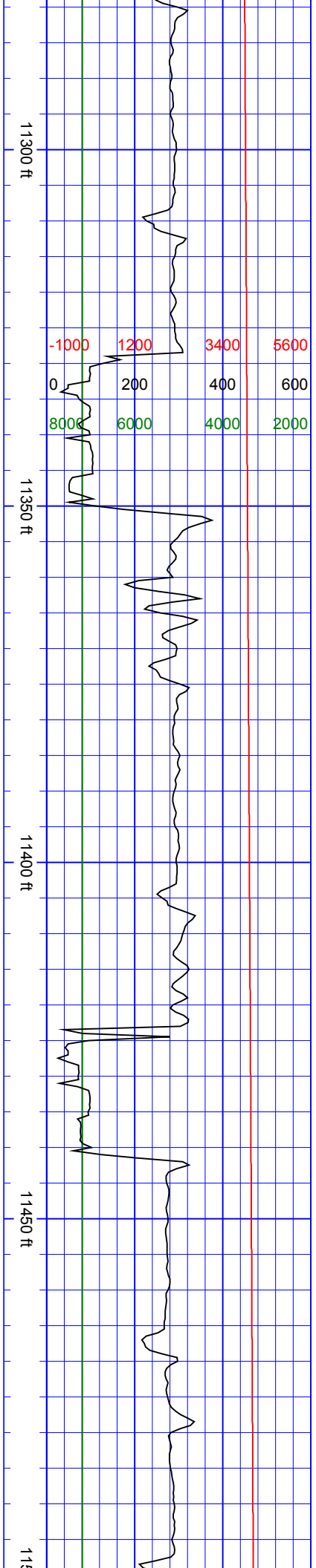
SurveyDepth:11260
TVD:7180.53 Inc:89.78
Azi:88.02
VertSec:3937.19

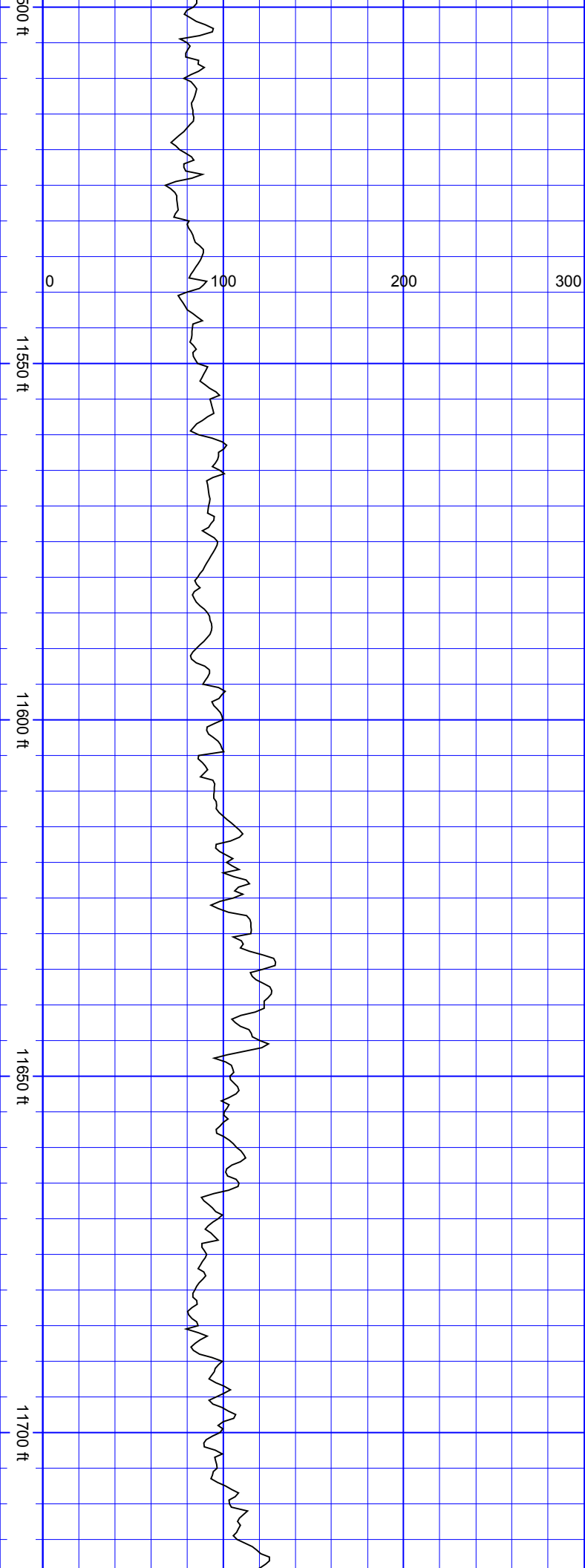




SurveyDepth:11354
TVD:7180.09 Inc:90.75
Azi:89.52
VertSec:4027.98

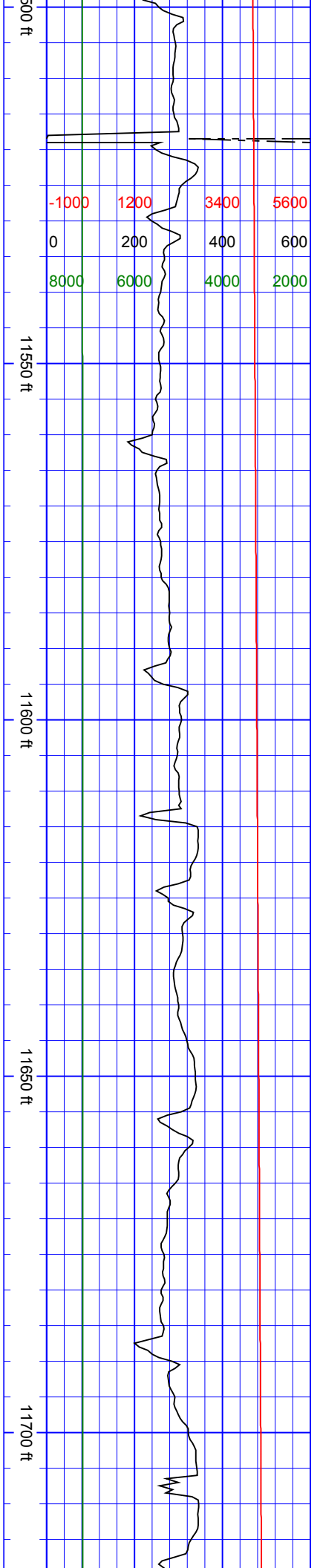
SurveyDepth:11448
TVD:7179.44 Inc:90.04
Azi:90.31
VertSec:4119.23

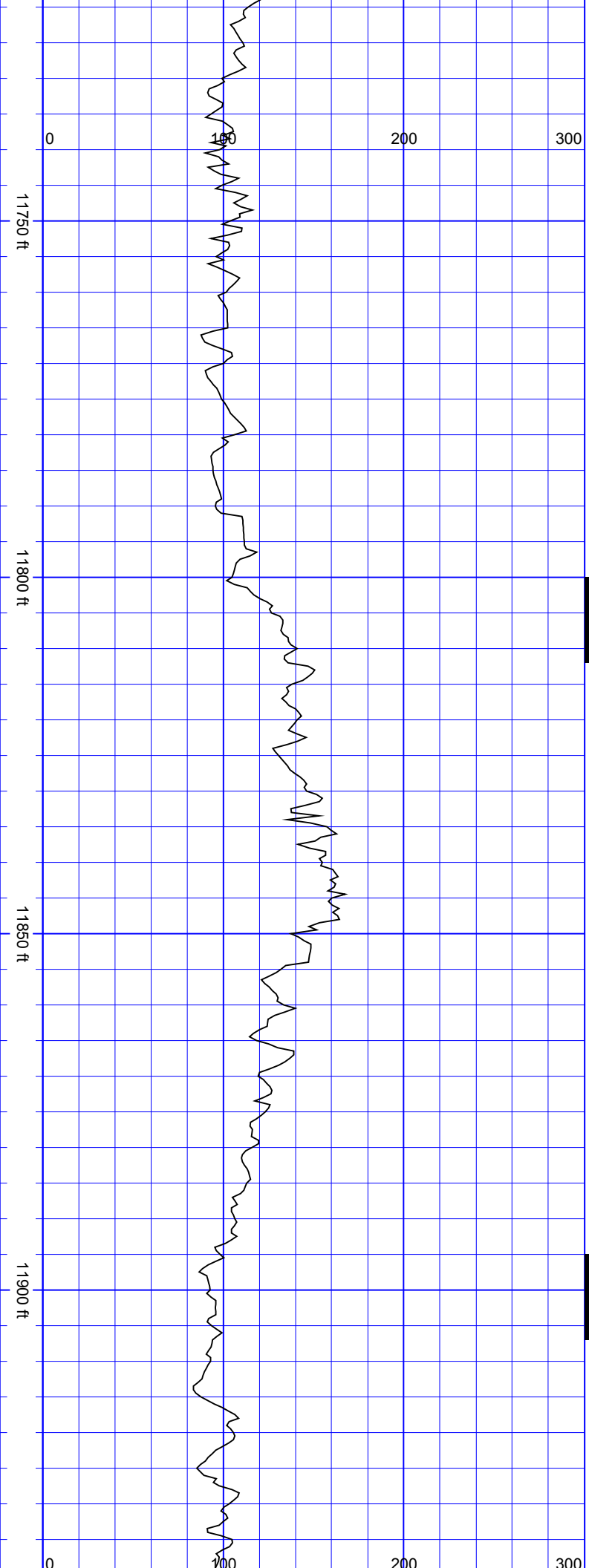




SurveyDepth:11543
TVD:7178.53 Inc:91.06
Azi:89.96
VertSec:4211.54

SurveyDepth:11637
TVD:7176.04 Inc:91.98
Azi:89.87
VertSec:4302.76





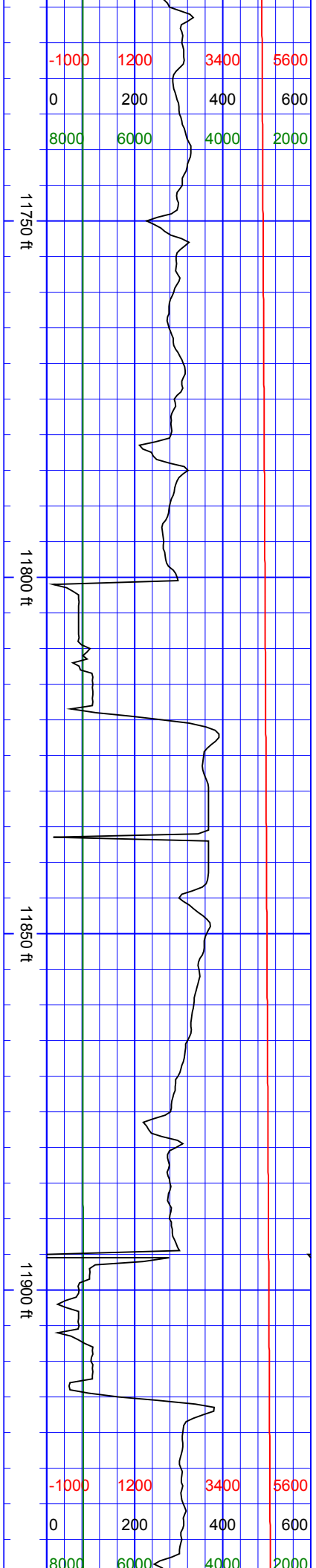
SurveyDepth:11731
TVD:7172.25 Inc:92.64
Azi:89.25
VertSec:4393.8

SurveyDepth:11826
TVD:7168.71 Inc:91.63
Azi:89.52
VertSec:4485.75

SurveyDepth:11920
TVD:7166.98 Inc:90.48
Azi:89.87
VertSec:4576.91

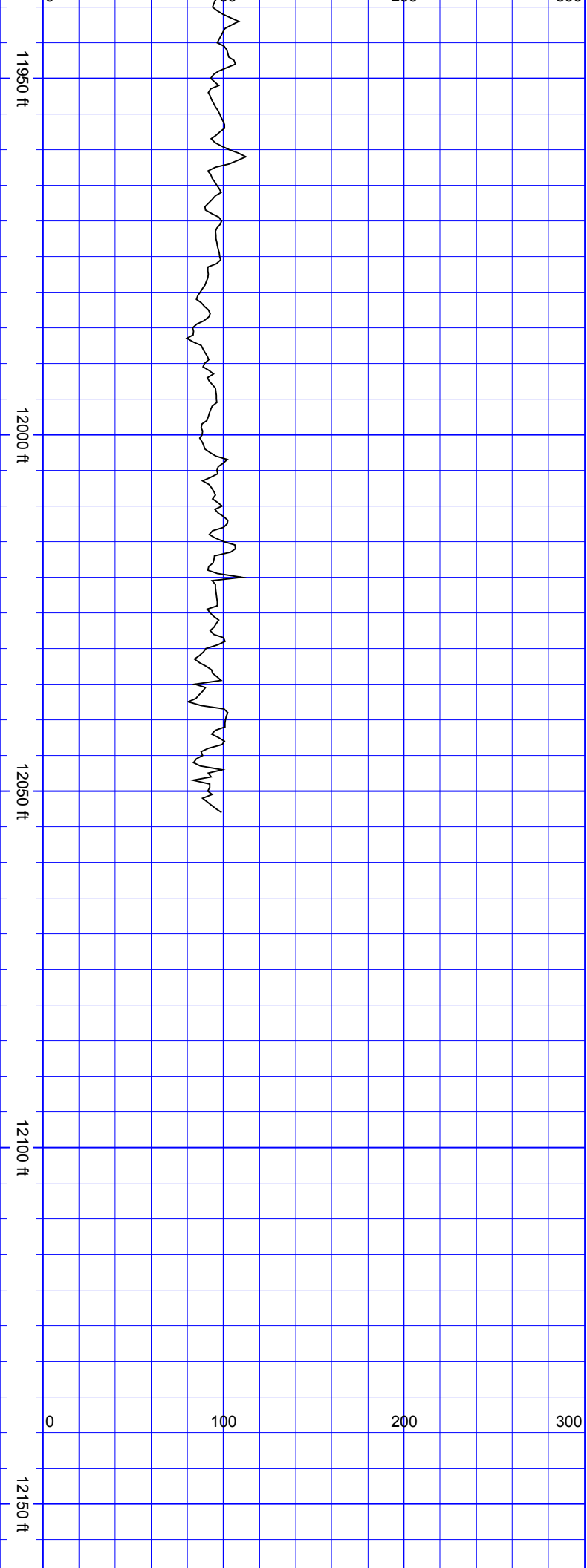
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0 200 400 600
8000 6000 4000 2000

-1000 1200 3400 5600
0 200 400 600
8000 6000 4000 2000



SurveyDepth:12014
TVD:7166.48 Inc:90.13
Azi:87.5
VertSec:4667.65

SurveyDepth:12044
TVD:7166.28 Inc:90.62
Azi:87.23
VertSec:4696.42

Extrapolation to Bit
SurveyDepth:12113
TVD:7165.54 Inc:90.62
Azi:87.23
VertSec:4762.56

