



Build & Lateral

Job #:

185301

Well ID:

16191472

Scale:

5" = 100 ft

Type:

MD

Well Site Information

Oil Company Crestone Peak Resources

Surface Location S17-T2N-R66W

Well Name Melbon Ranch 4G-17H-M265

API 05-123-47751-00

Field DJ BASIN

State CO

Country USA

Surface Coordinates

Well Type Horizontal

Latitude 40° 8' 5" N

Longitude 104° 41' 48" W

N / S Coordinates 1,292,950.35 us/ft

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

Azimuth Reference True North

Grid Convergence 0.52°

MWD Engineers

Lead Hand Bob Stahlecker

Second Hand Jerry Shannahan

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 11,935.00 ft Spud Date Oct/22/2018 End Date Oct/25/2018

(MD) Log Interval Start Depth 2,354.47 ft End Depth 11,935.13 ft

Bore Hole Record

Hole Size	From	To
13.50 in	0.00 ft	2,416.00 ft
8.50 in	2,416.00 ft	11,935.00 ft

Casing Record

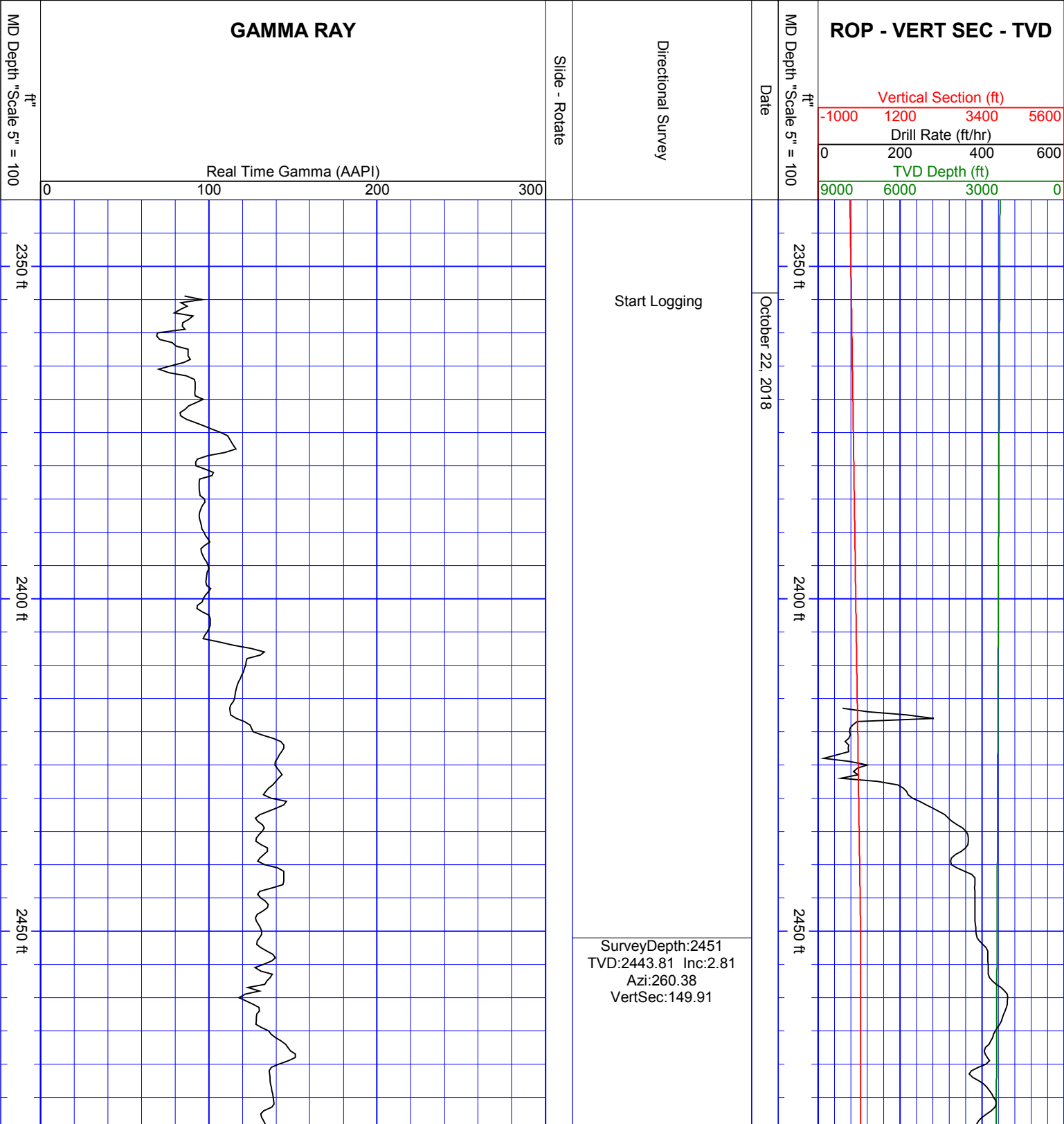
Type	Size	WGT	From	To
LT&C	9.63 in	40.00 lbs/ft	0.00 ft	2,416.00 ft
DW/C	5.50 in	20.00 lbs/ft	0.00 ft	11,935.00 ft

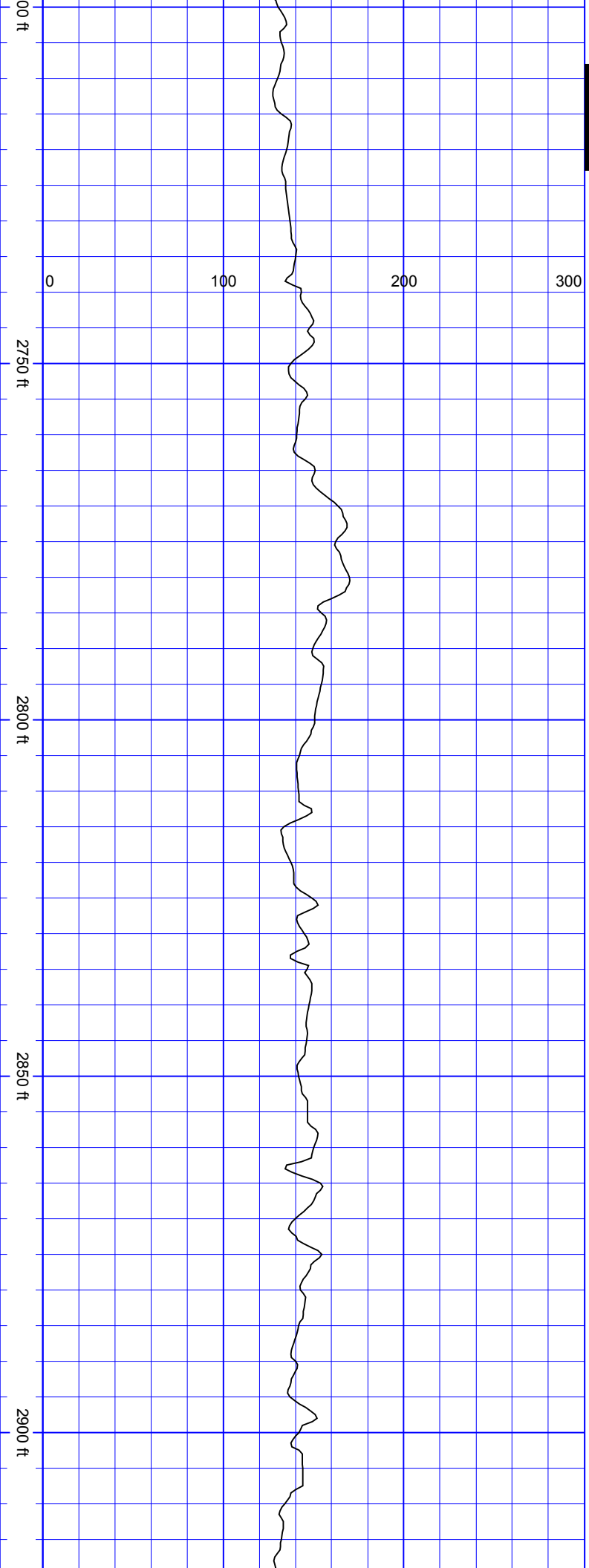
Run Data

Bit Run Number	1				
Start Date & Time	Oct/22/2018 04:00:00				
End Date & Time	Oct/25/2018 22:30:00				
Run Hours	60.00				
Depth In	2,416.00 ft				
Depth Out	11,935.00 ft				
Total Gamma Correction	5.72				
Gamma to Bit	63.29 ft				
Resistivity to Bit	-				
Mud Type	Oil Base				
Density	10.10 ppg				
Viscosity	45.00 sec/qt				
PH	-				
Fluid Loss	-				
K+ ppm	-				
CL- ppm	222,971.00 ppm				
Max Mud Temp	250.00 °F				
Mud Report Depth	9,325.00 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.

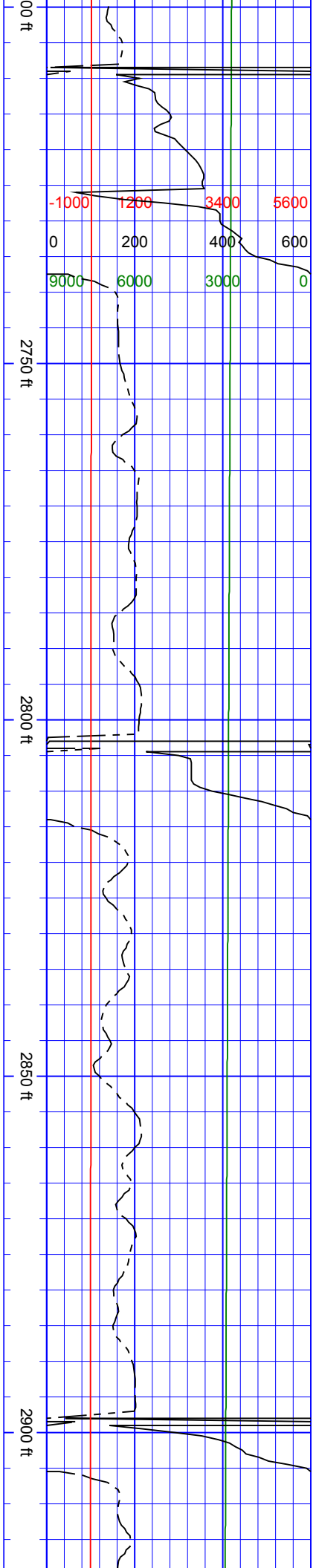


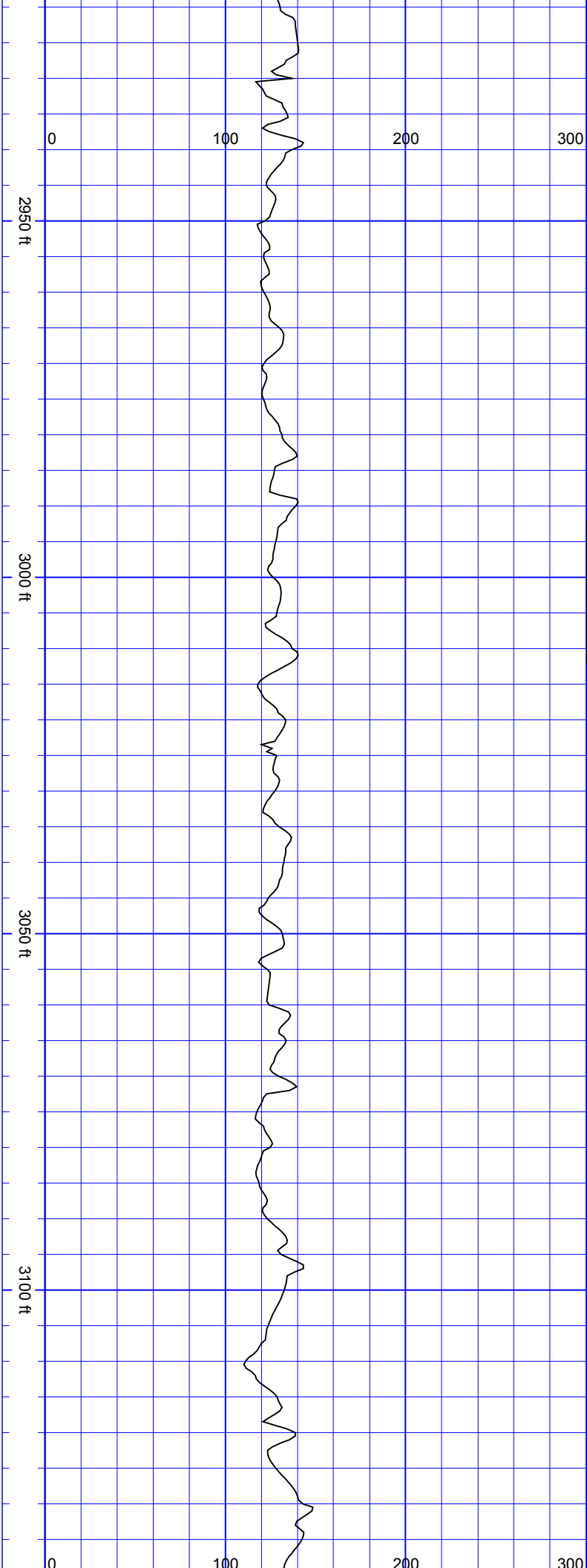


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SurveyDepth:2733
TVD:2724.12 Inc:8.31
Azi:290.44
VertSec:121.53

SurveyDepth:2828
TVD:2818.24 Inc:7.3
Azi:290.35
VertSec:109.69





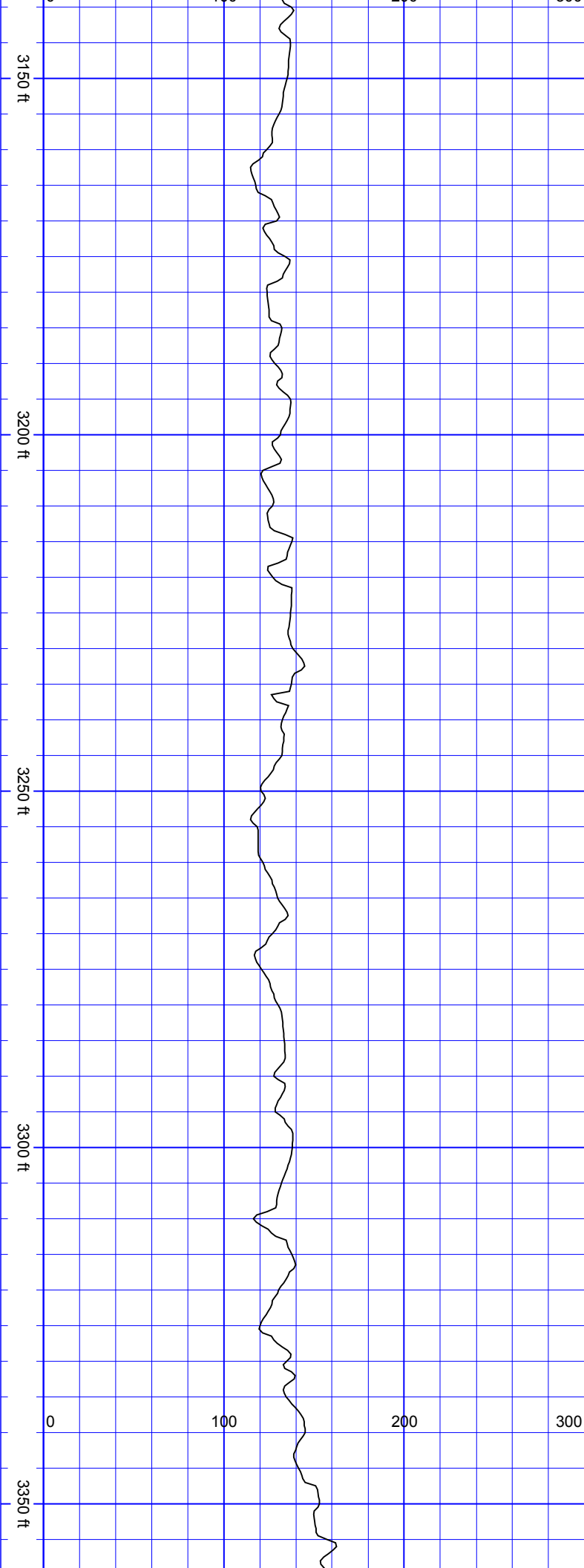
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SurveyDepth:2923
TVD:2912.59 Inc:6.15
Azi:291.31
VertSec:99.51

SurveyDepth:3017
TVD:3005.79 Inc:8.7
Azi:292.37 VertSec:88.5

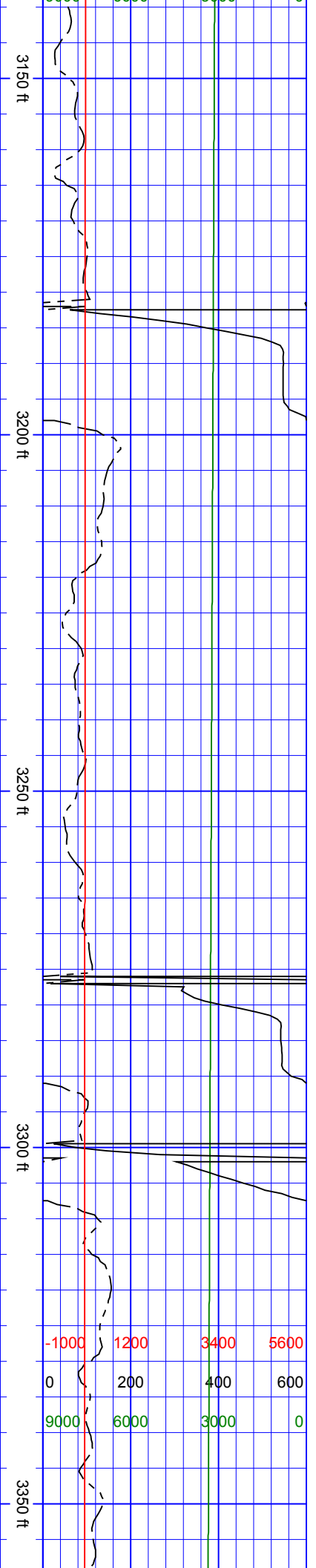
SurveyDepth:3112
TVD:3099.78 Inc:8
Azi:291.14
VertSec:75.97

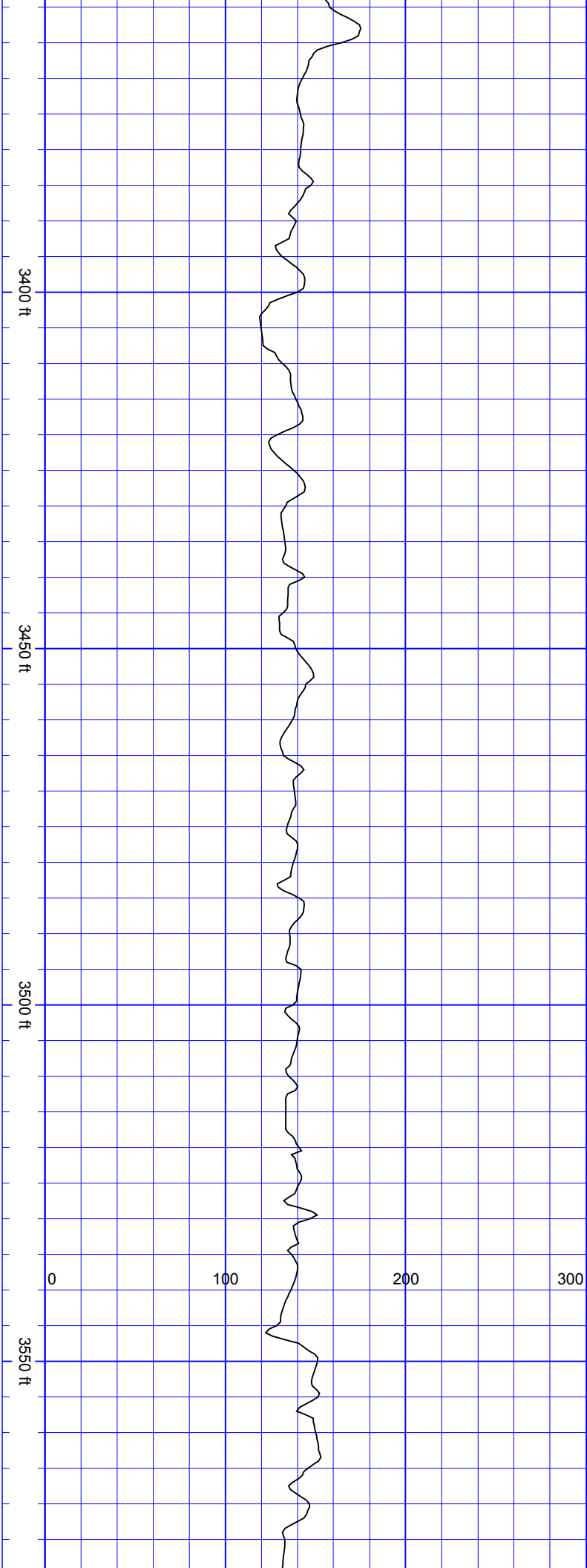




SurveyDepth:3230
TVD:3216.79 Inc:6.86
Azi:290.7 VertSec:62.03

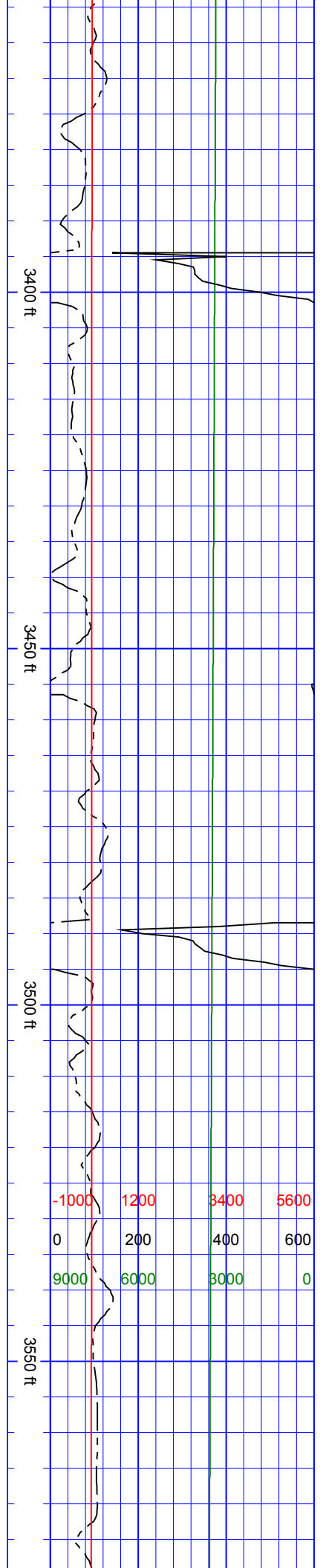
SurveyDepth:3325
TVD:3311.19 Inc:5.98
Azi:291.84
VertSec:52.34

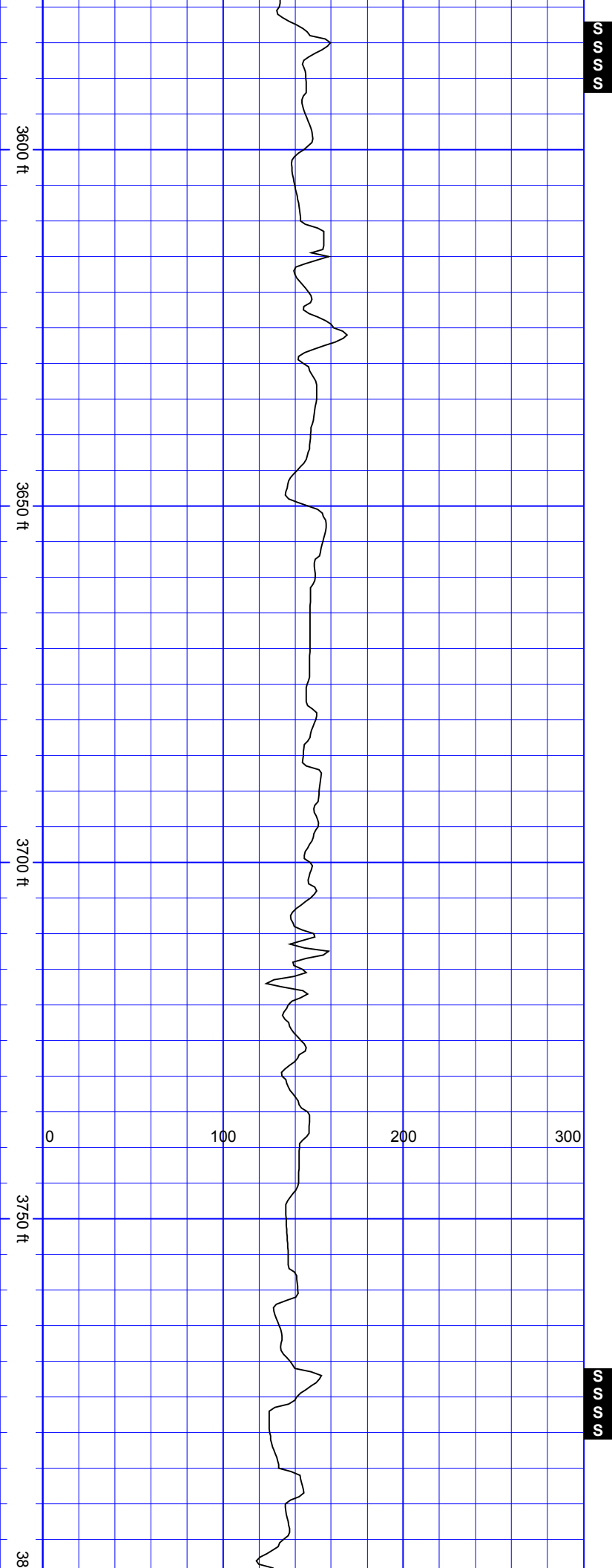




SurveyDepth:3419
TVD:3404.75 Inc:5.14
Azi:291.49
VertSec:44.06

SurveyDepth:3513
TVD:3498.44 Inc:4.18
Azi:293.07
VertSec:37.15





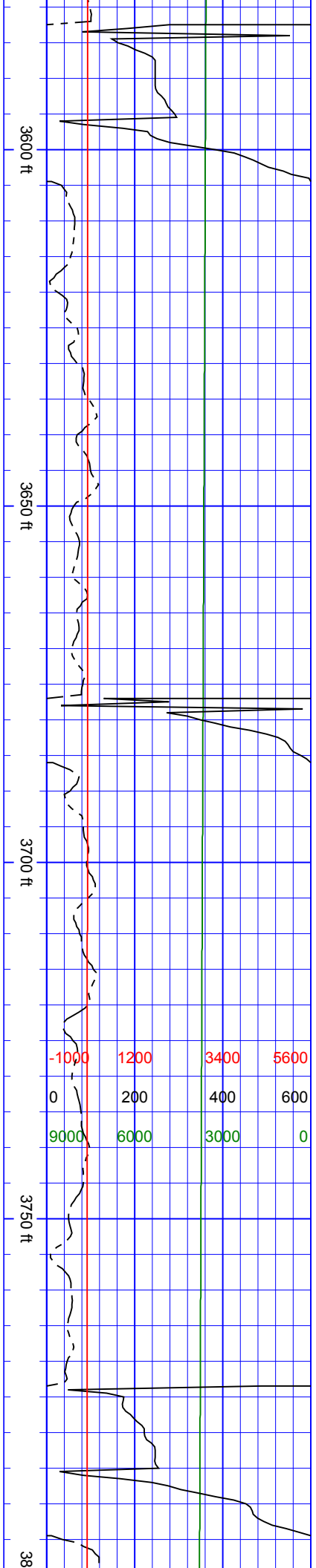
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SurveyDepth:3608
TVD:3593.14 Inc:4.92
Azi:286.22 VertSec:30.2

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SurveyDepth:3702
TVD:3686.85 Inc:4.04
Azi:286.04
VertSec:23.26

SurveyDepth:3797

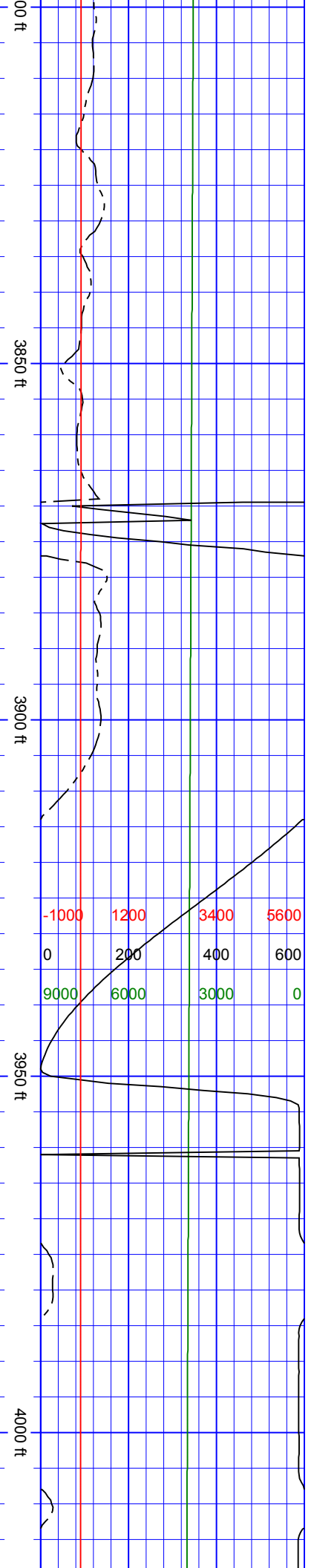
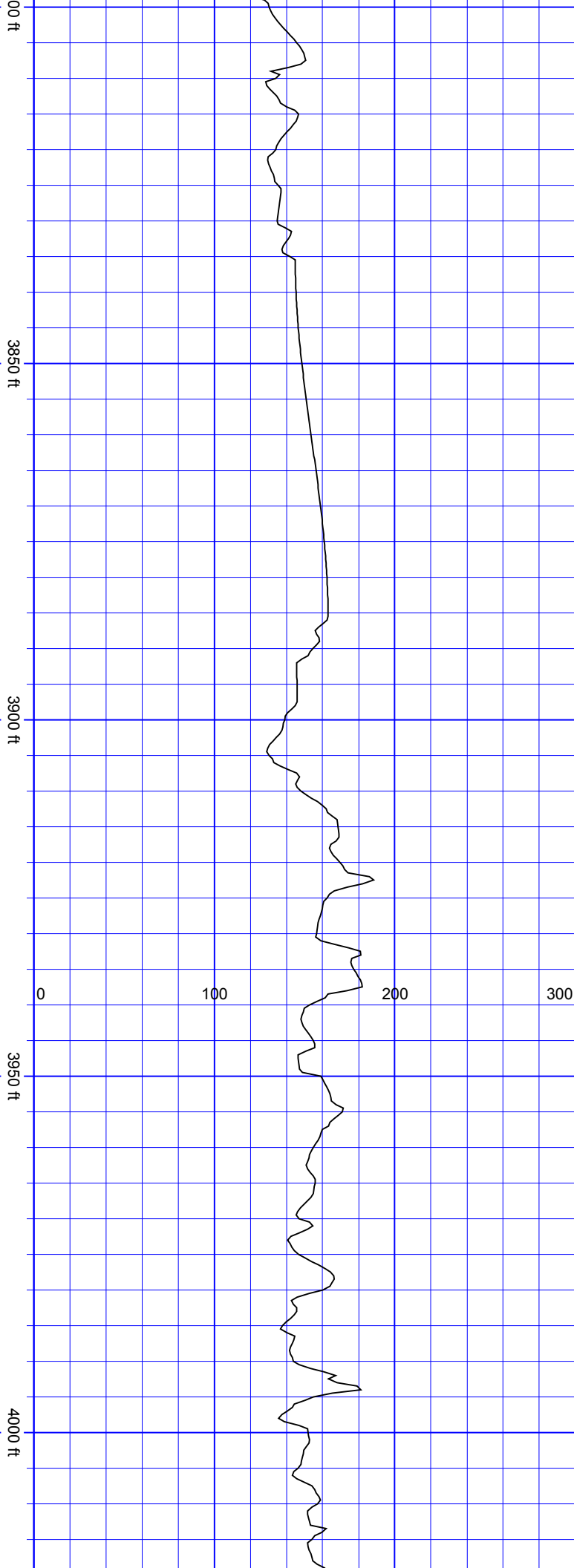


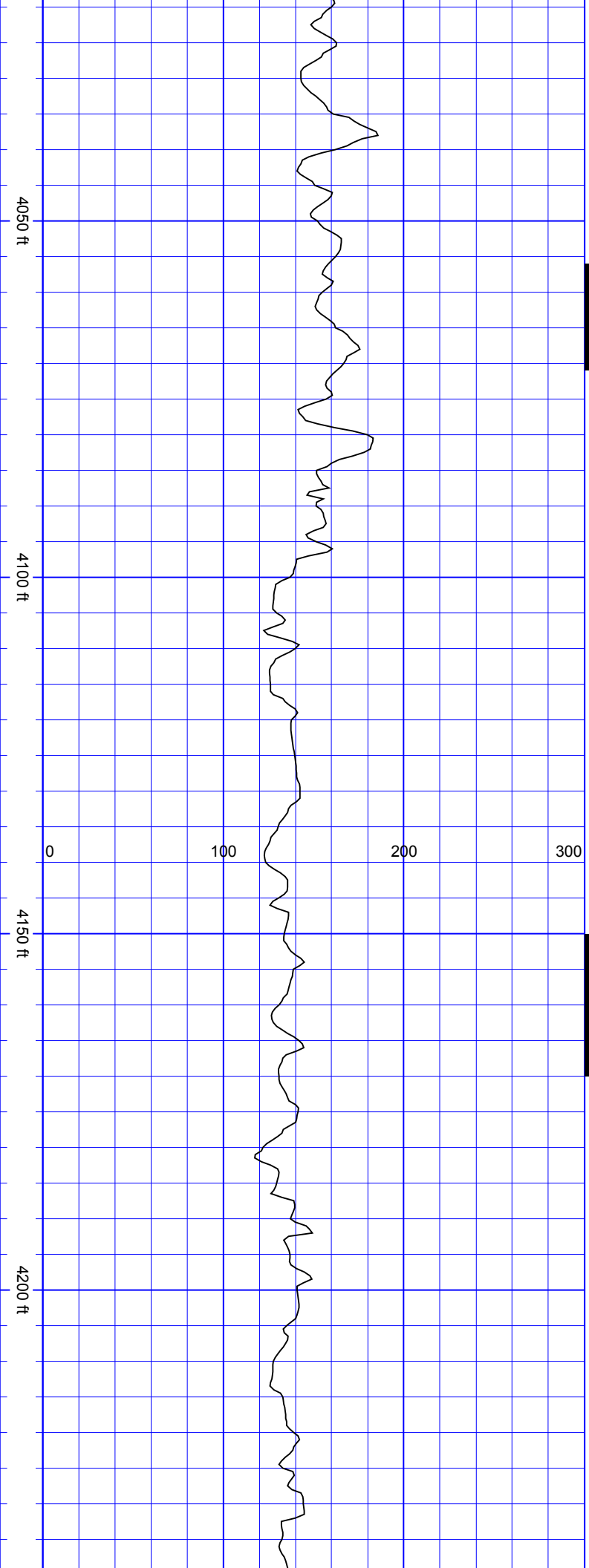
TVD:3781.55 Inc:5.05
Azi:291.84 VertSec:16.3

SurveyDepth:3892
TVD:3876.24 Inc:4.22
Azi:303.53 VertSec:9.7

SurveyDepth:3987
TVD:3970.99 Inc:4.22
Azi:299.58 VertSec:3.95

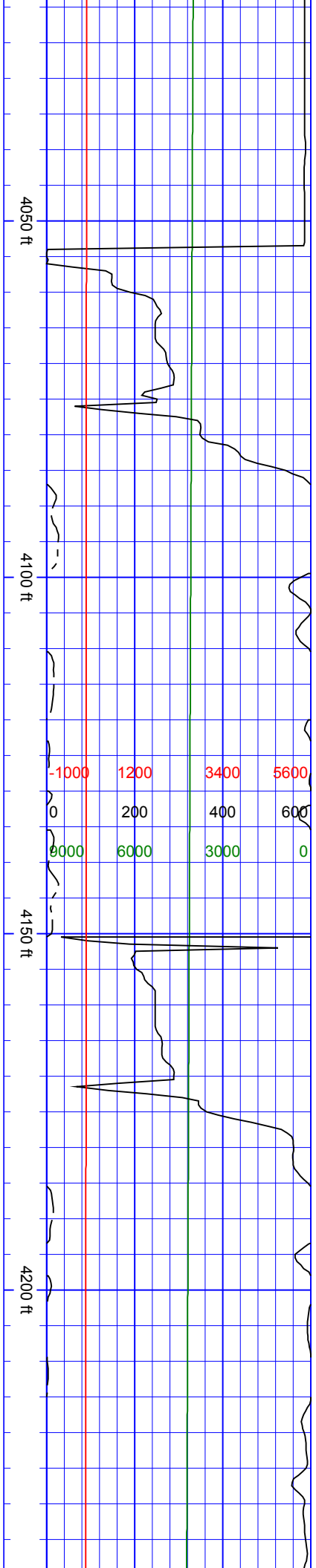
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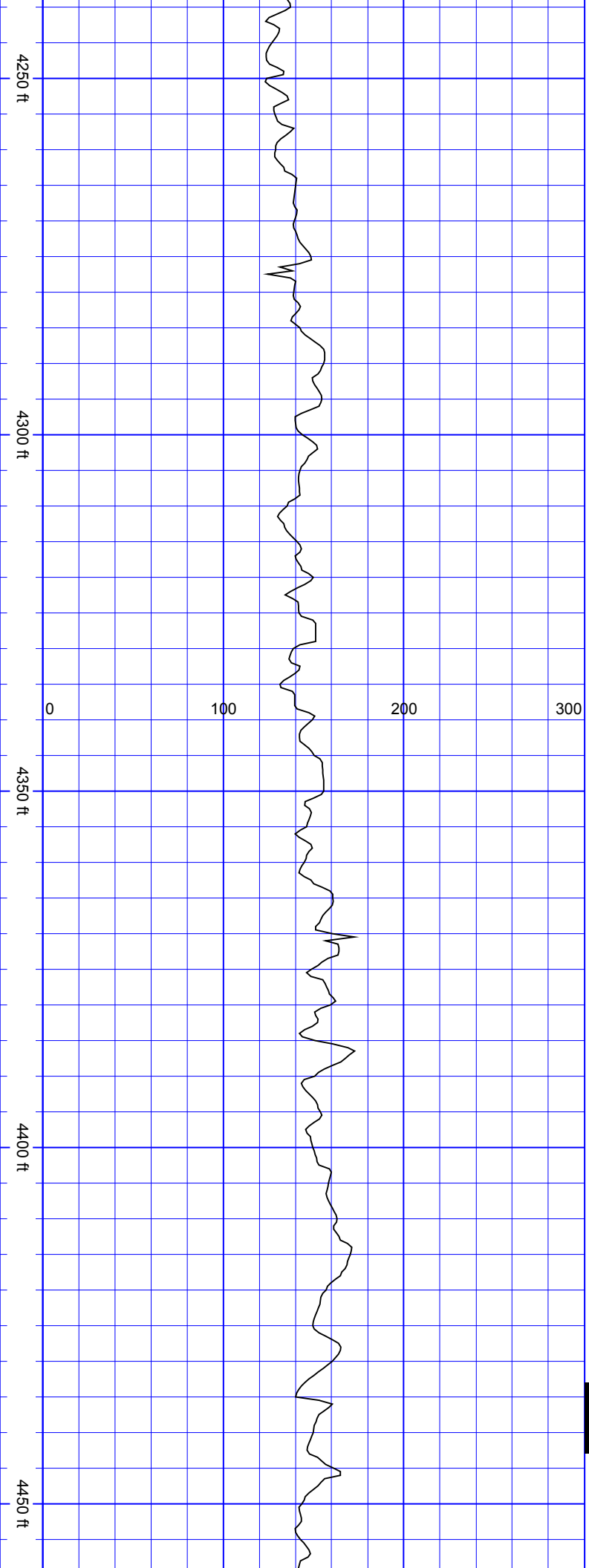




SurveyDepth:4081
TVD:4064.67 Inc:5.19
Azi:297.11 VertSec:-2.65

SurveyDepth:4176
TVD:4159.1 Inc:7.38
Azi:285.16 VertSec:-12.16

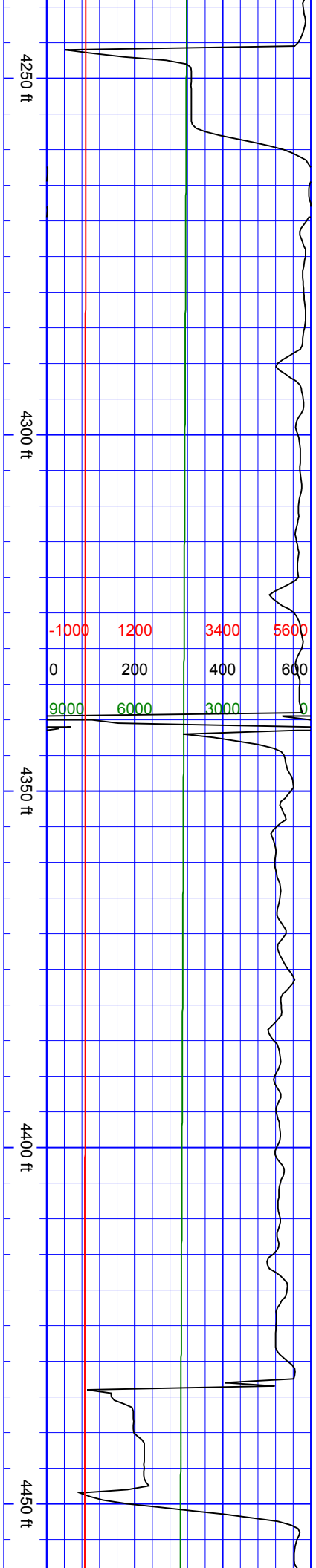


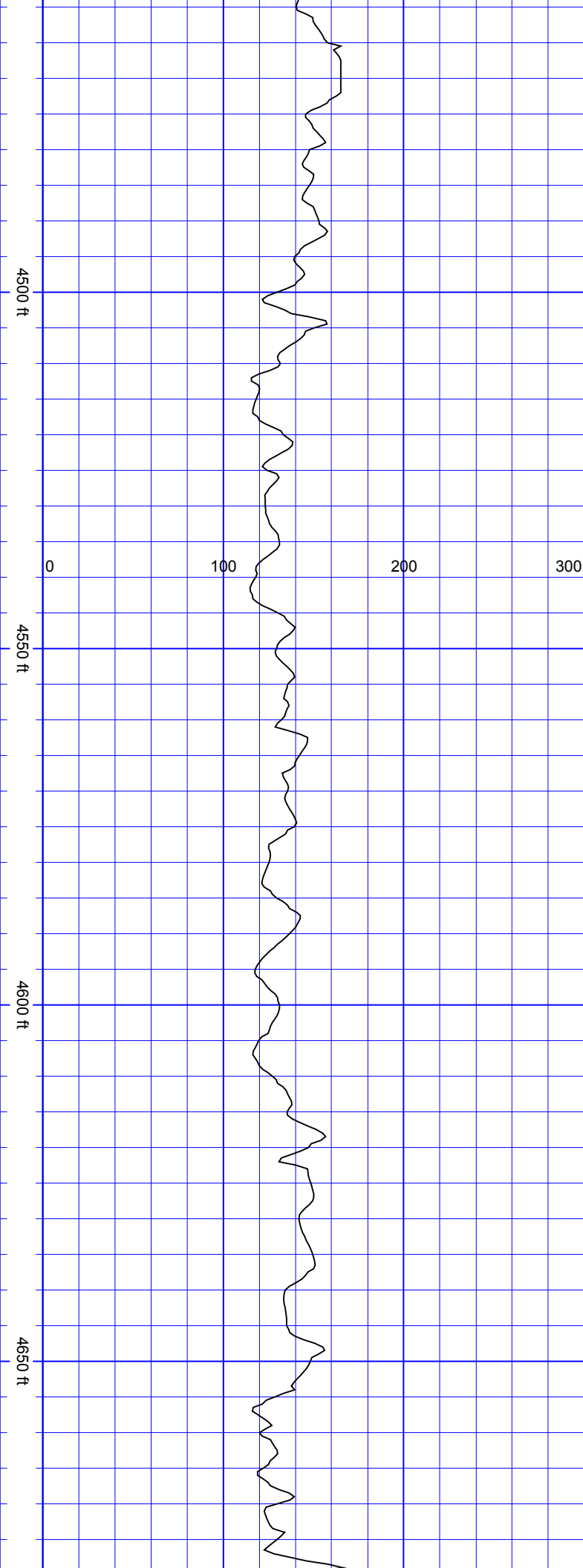


SurveyDepth:4270
TVD:4252.33 Inc:7.25
Azi:286.48 VertSec:-
23.49

SurveyDepth:4364
TVD:4345.72 Inc:5.85
Azi:290.96 VertSec:-
33.46

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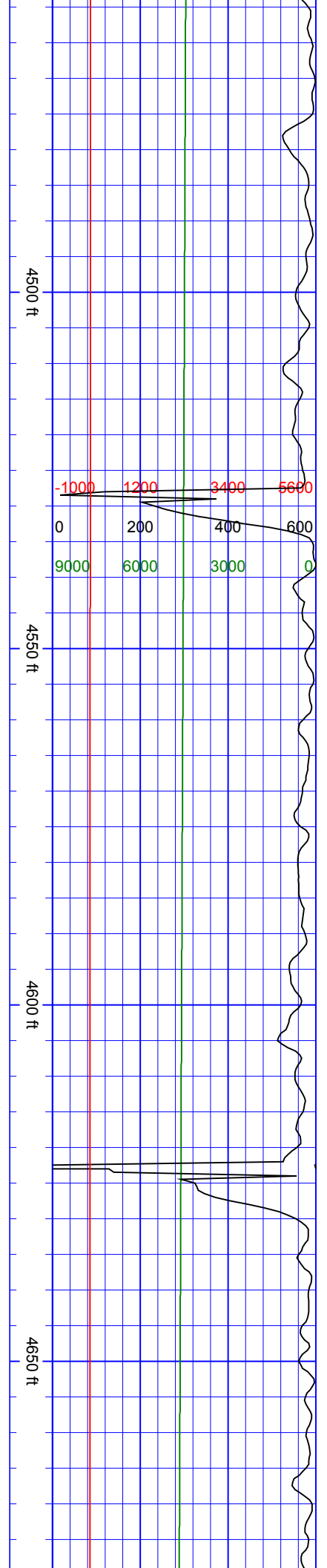


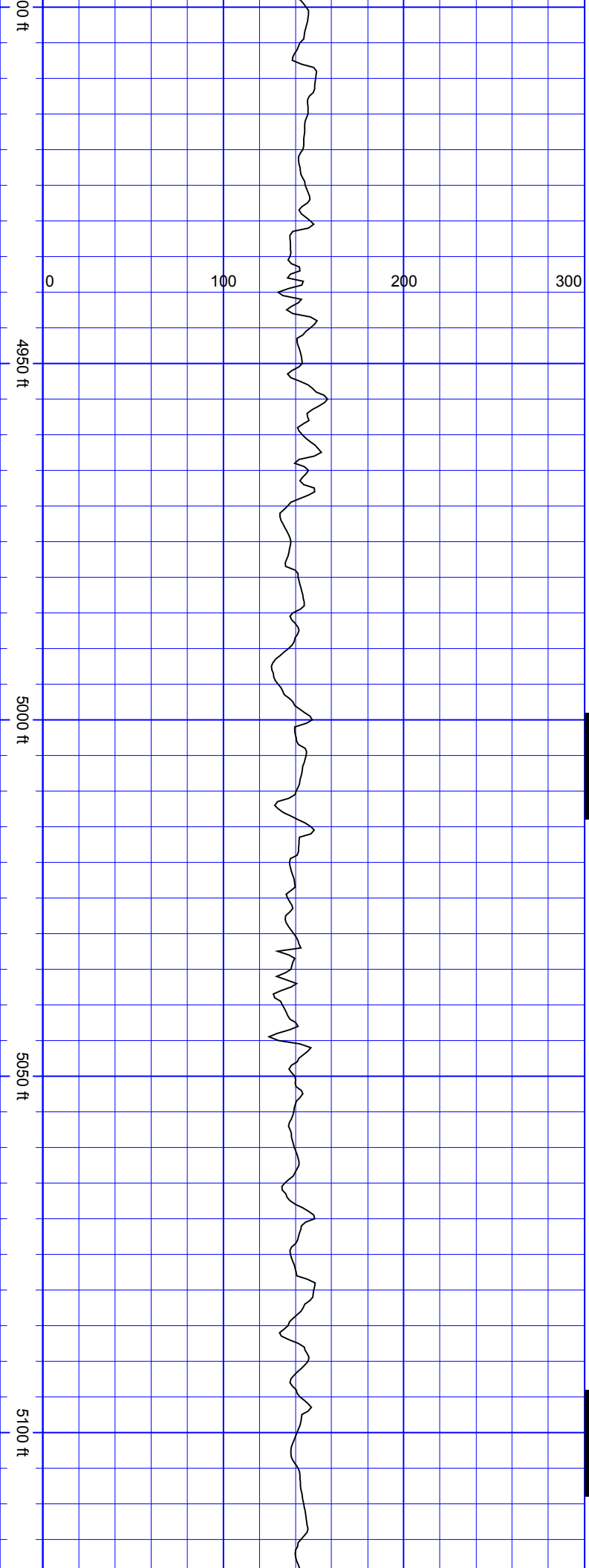


SurveyDepth:4459
TVD:4440.29 Inc:4.97
Azi:278.92 VertSec:-
41.91

SurveyDepth:4553
TVD:4533.98 Inc:4.35
Azi:282.35 VertSec:-
49.33

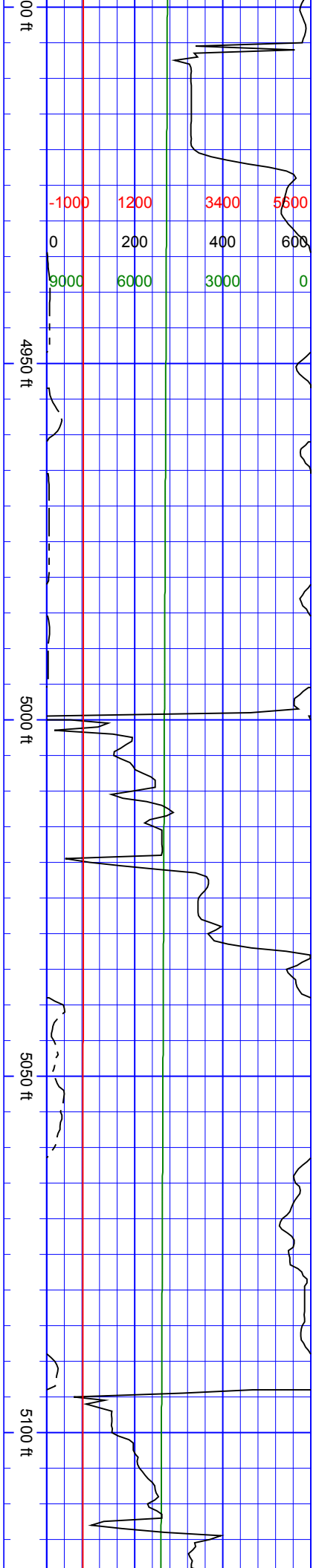
SurveyDepth:4647
TVD:4627.76 Inc:3.52
Azi:295.36 VertSec:-
55.31

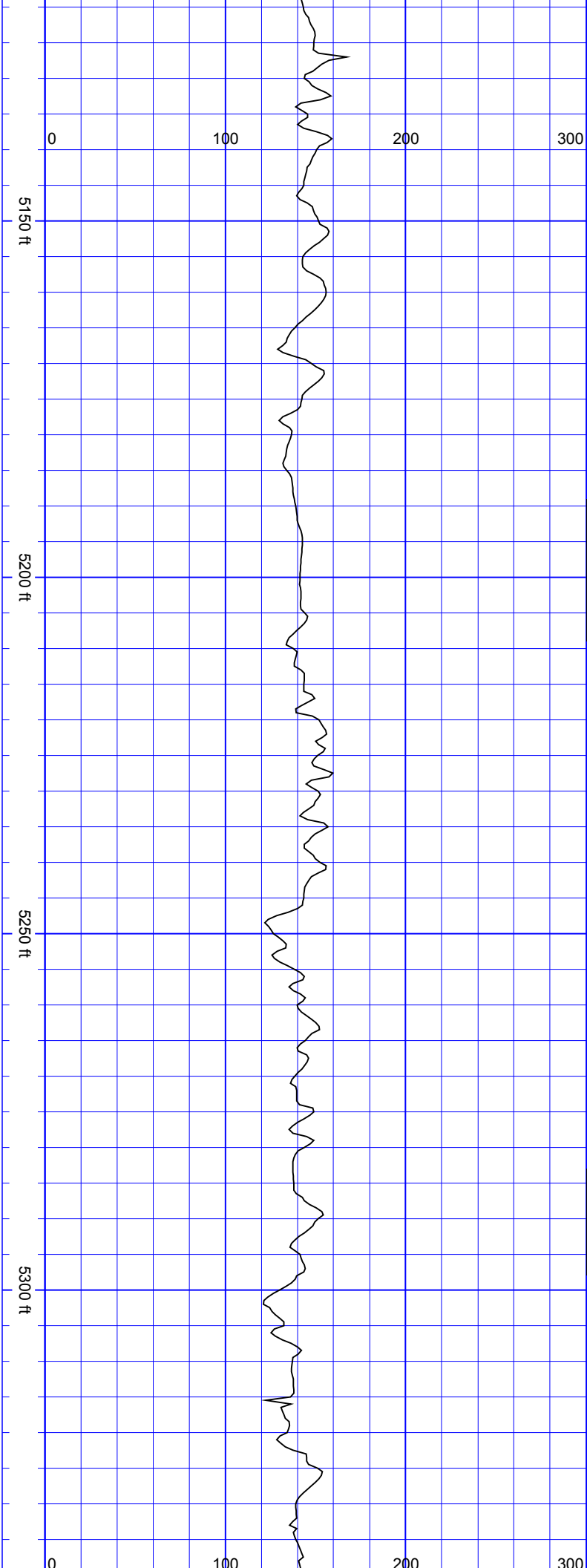




SurveyDepth:4930
TVD:4909.9 Inc:3.96
Azi:285.6 VertSec:-76.13

SurveyDepth:5025
TVD:5004.65 Inc:4.48
Azi:290.26 VertSec:-82.65

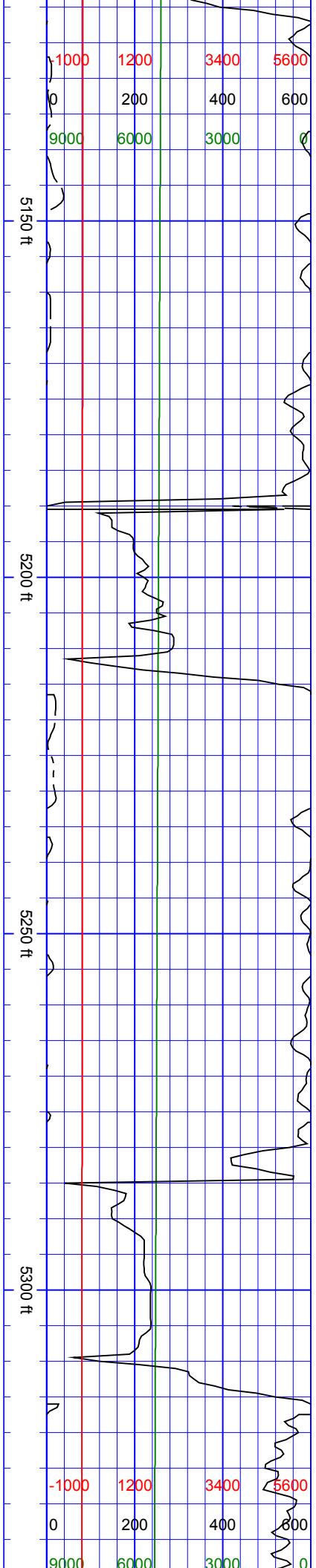


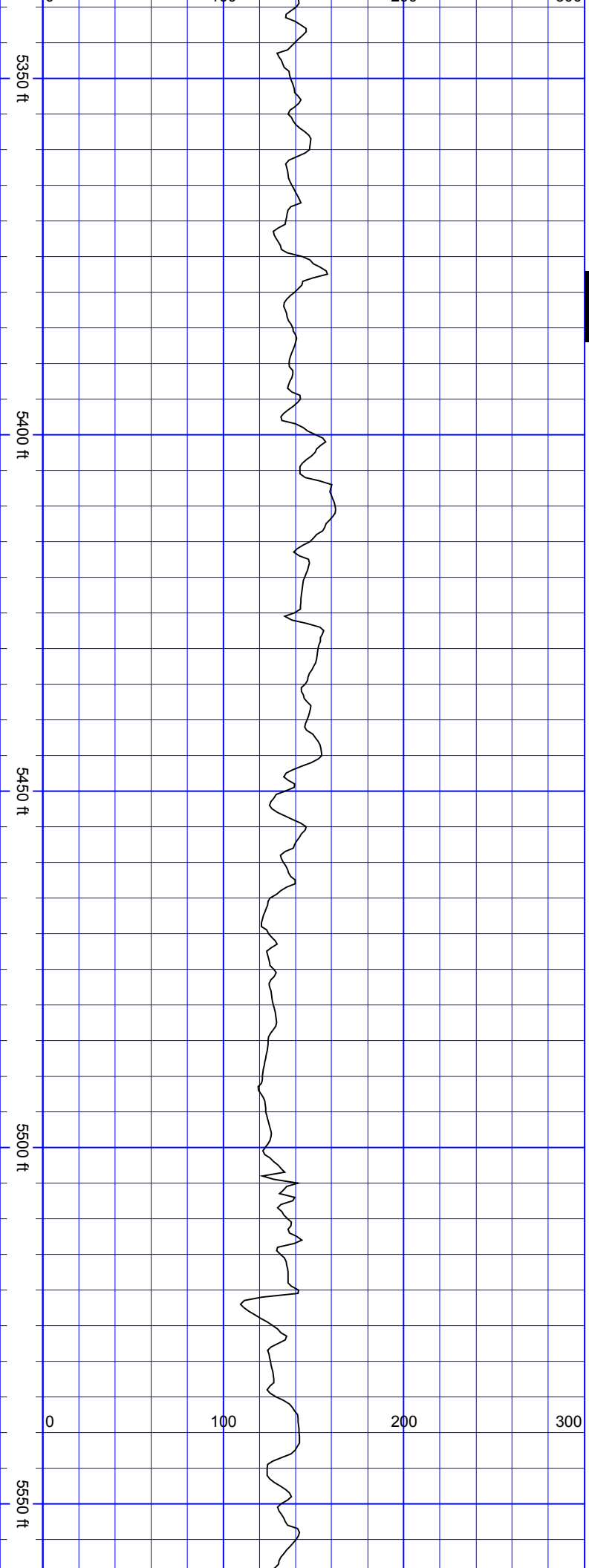


SurveyDepth:5120
TVD:5099.3 Inc:5.36
Azi:277.43 VertSec:-90.42

SurveyDepth:5214
TVD:5192.79 Inc:6.55
Azi:268.9 VertSec:-100.1

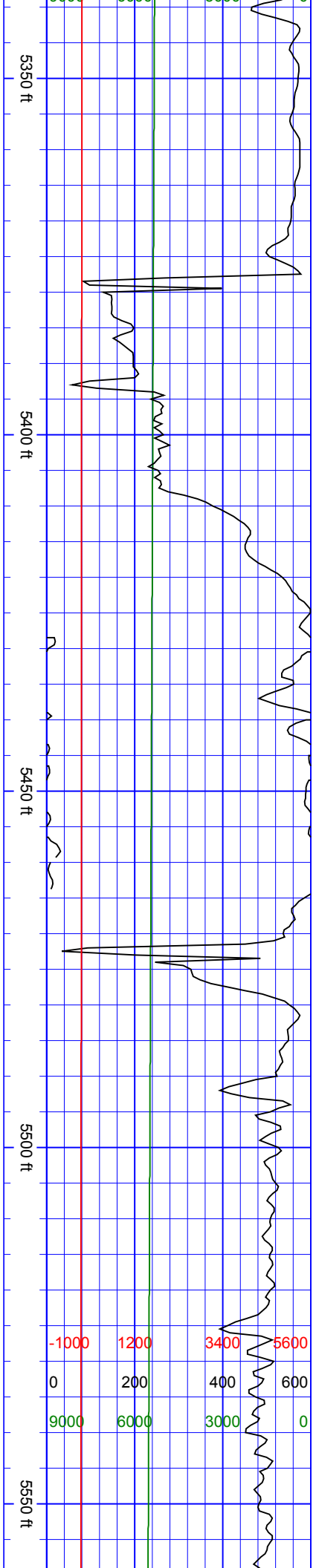
SurveyDepth:5308
TVD:5286.14 Inc:6.94
Azi:279.01 VertSec:-111.01





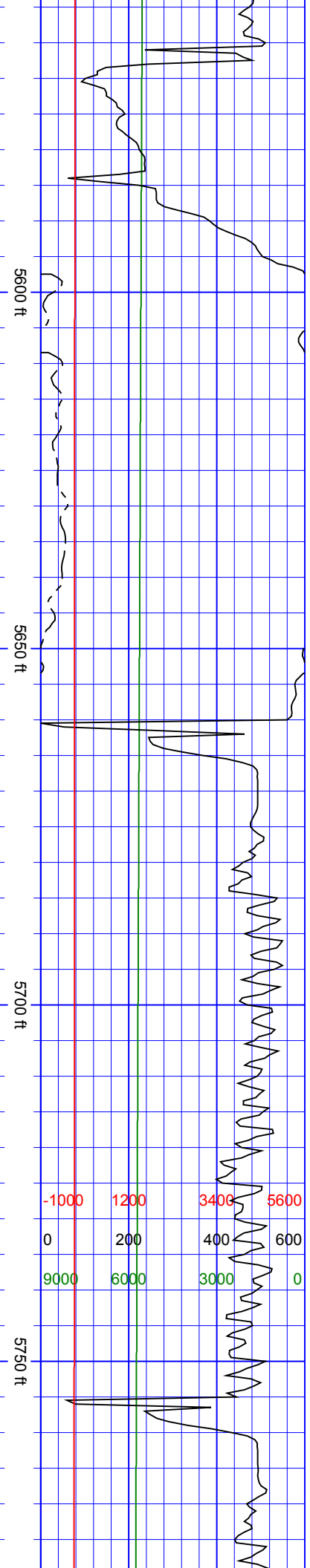
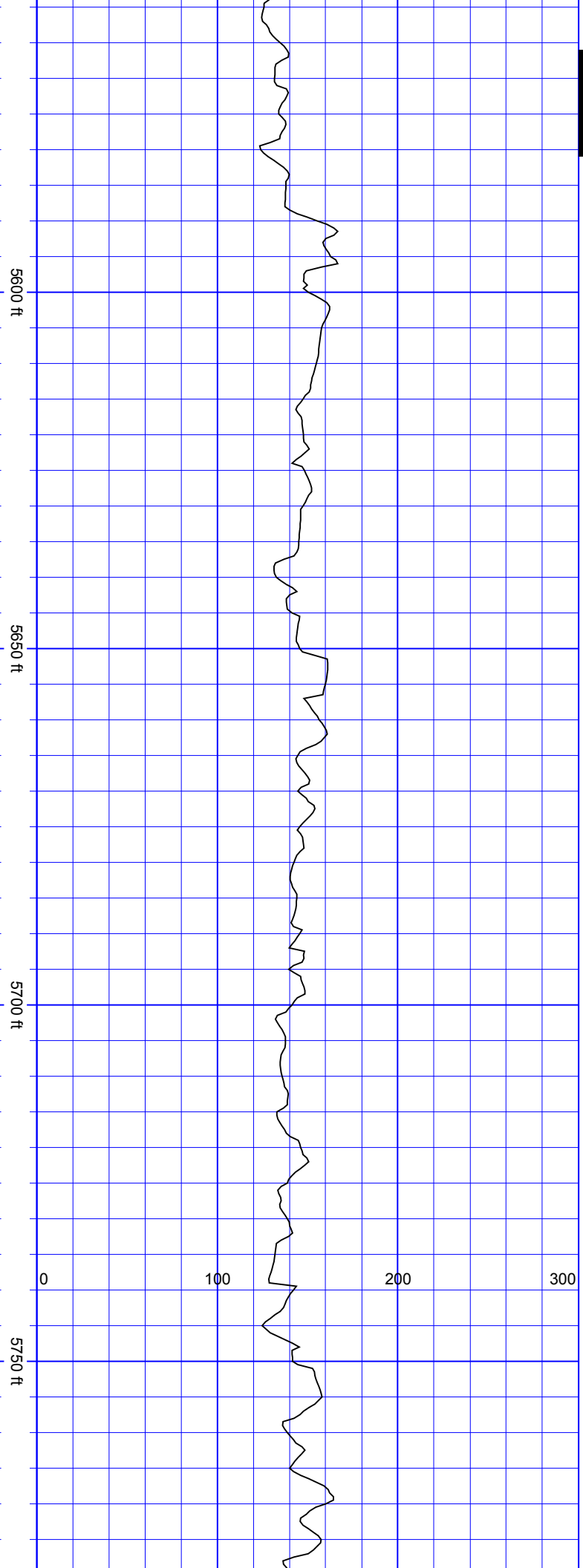
SurveyDepth:5403
TVD:5380.42 Inc:7.25
Azi:285.95 VertSec:-
122.3

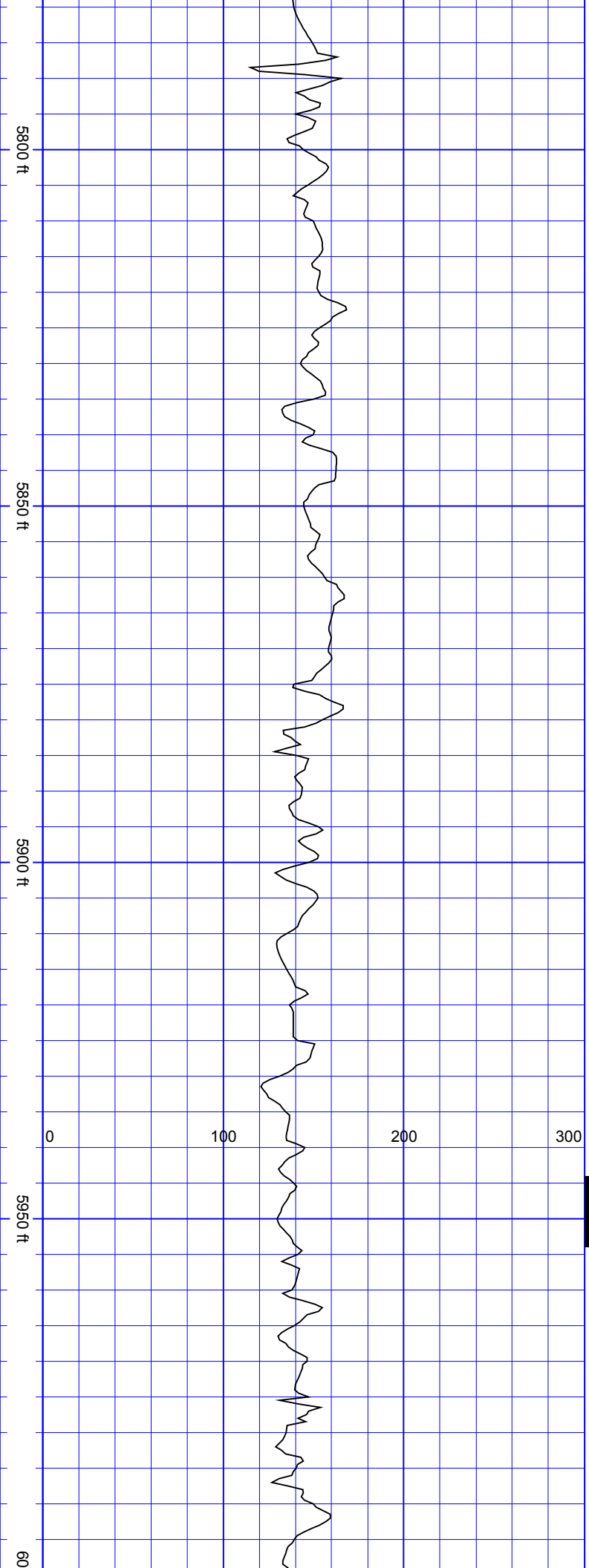
SurveyDepth:5497
TVD:5473.73 Inc:6.64
Azi:277.6 VertSec:-
133.25



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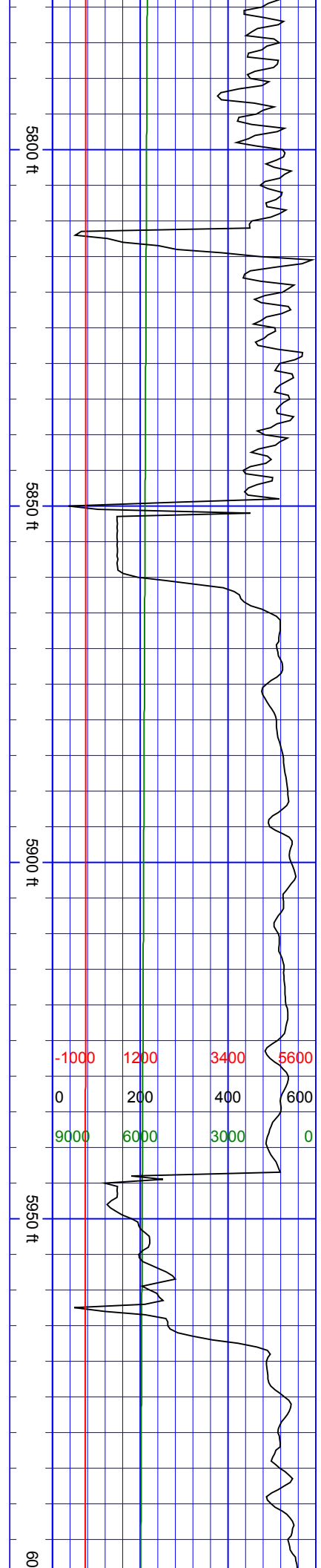
SurveyDepth:5591
TVD:5567.21 Inc:5.45
Azi:288.59 VertSec:-
142.74

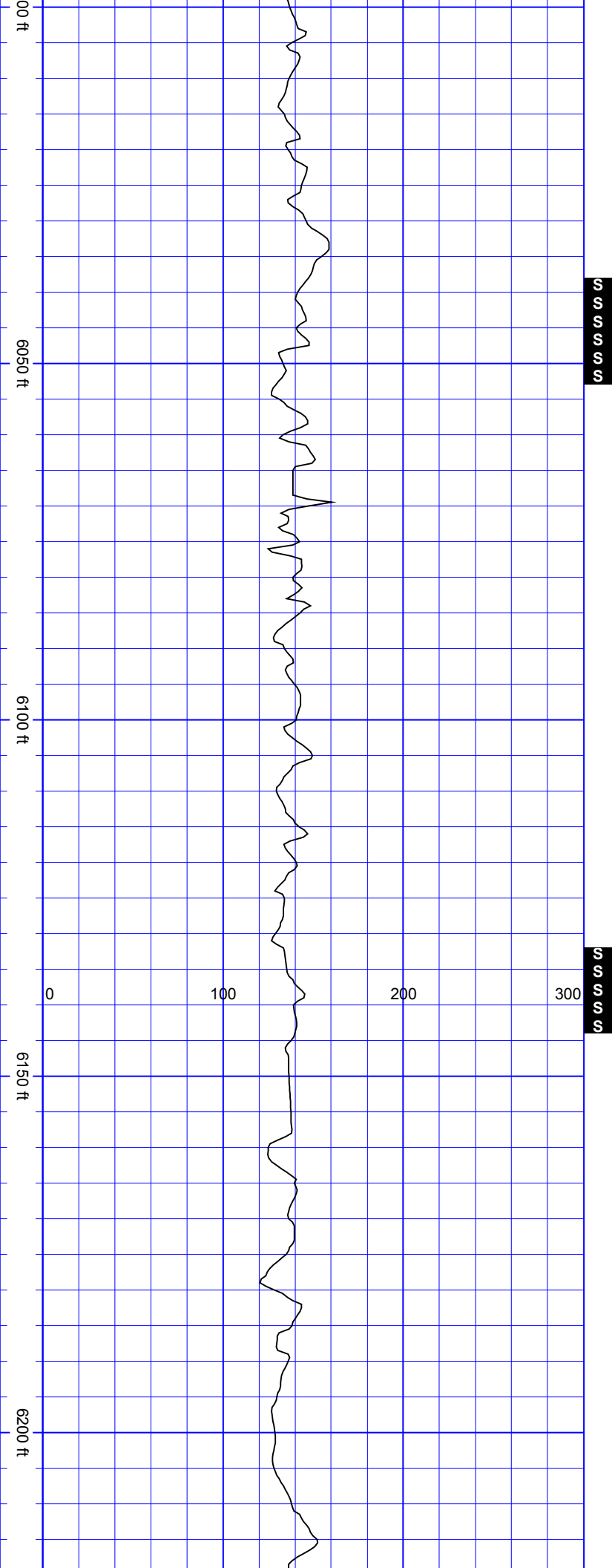




SurveyDepth:5780
TVD:5755.49 Inc:4.53
Azi:288.24 VertSec:-
158.04

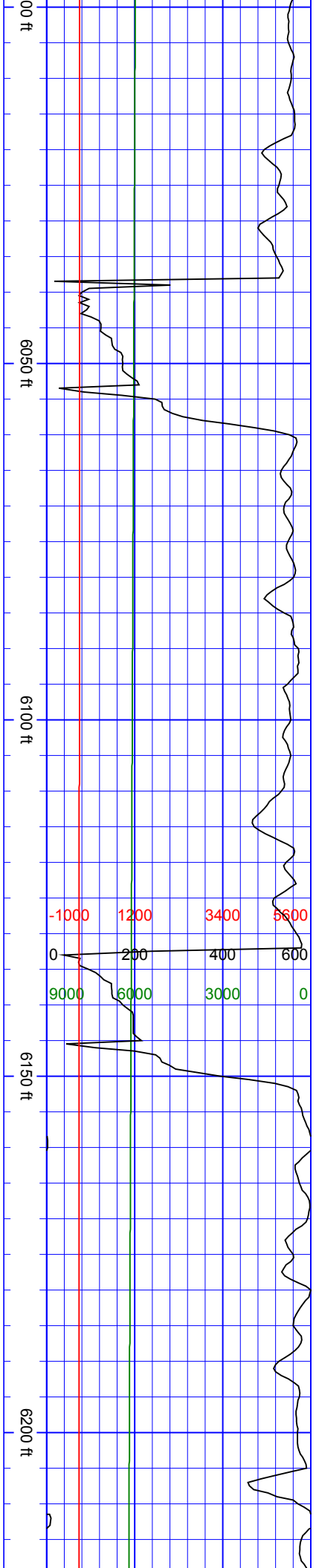
SurveyDepth:5969
TVD:5944.03 Inc:3.52
Azi:299.22 VertSec:-
169.91

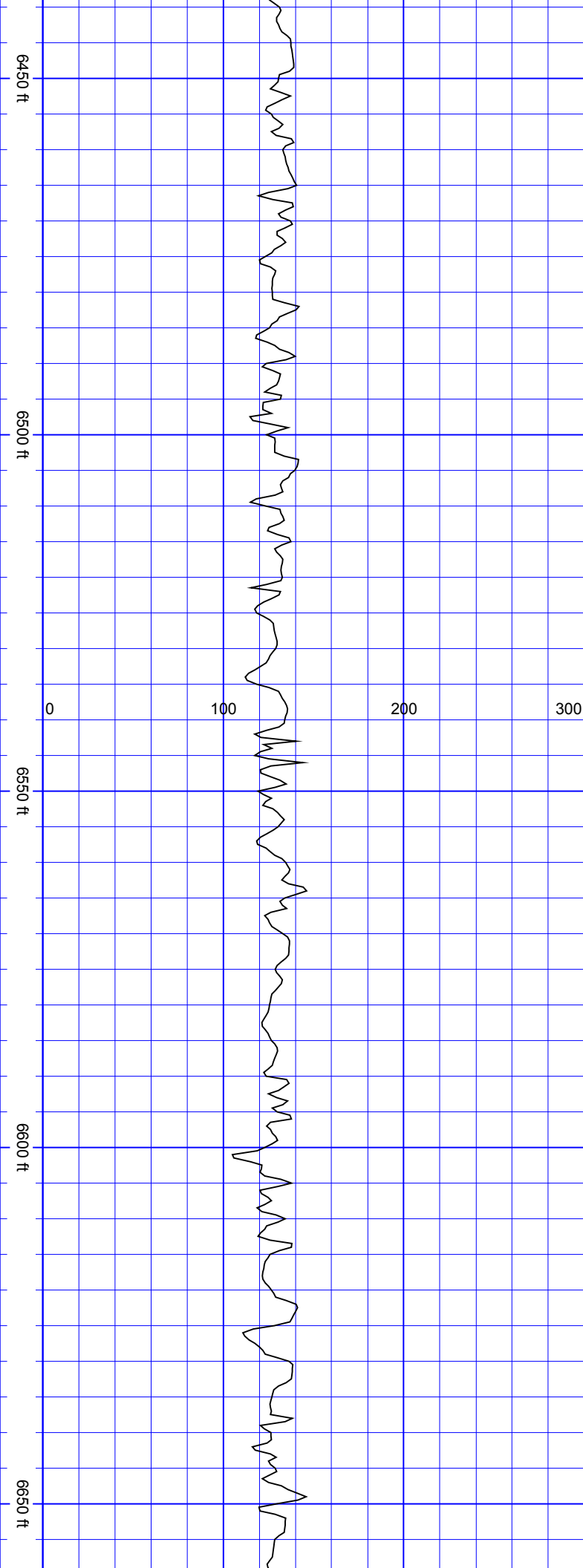




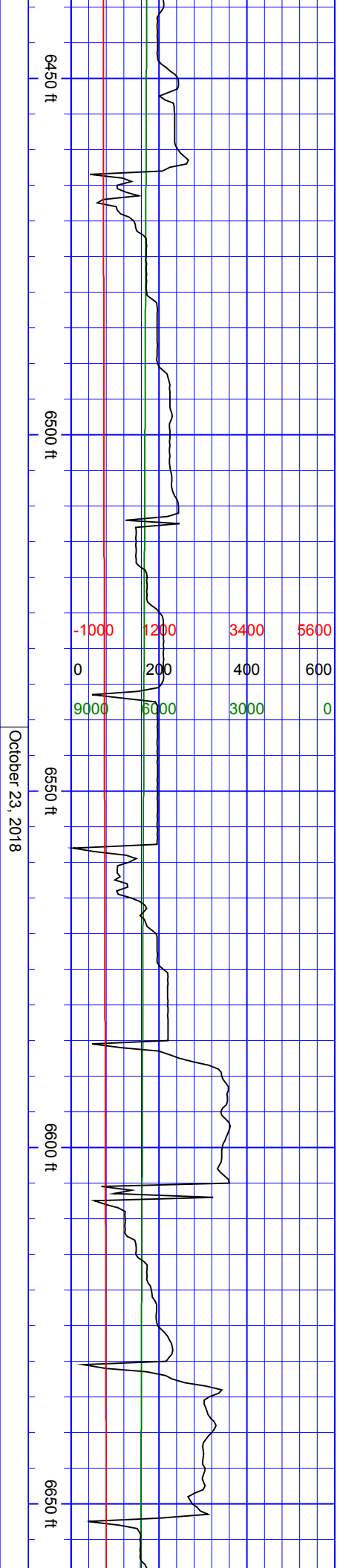
SurveyDepth:6063
TVD:6037.79 Inc:4.61
Azi:293.25 VertSec:-
175.74

SurveyDepth:6158
TVD:6132.38 Inc:5.93
Azi:298.26 VertSec:-
183.36





SurveyDepth:6442 TVD:6415.21 Inc:11.43 Azi:72.38 VertSec:-188.14
SurveyDepth:6489 TVD:6460.74 Inc:17.14 Azi:77.3 VertSec:-176.8
SurveyDepth:6536 TVD:6505.1 Inc:21.4 Azi:82.22 VertSec:-161.42
SurveyDepth:6583 TVD:6548.5 Inc:23.73 Azi:81.43 VertSec:-143.46
SurveyDepth:6630 TVD:6591.12 Inc:26.1 Azi:82.66 VertSec:-123.73



6700 ft

6750 ft

6800 ft

6850 ft

SurveyDepth:6677
TVD:6632.9 Inc:28.43
Azi:85.3 VertSec:-102.24

SurveyDepth:6725
TVD:6674.97 Inc:29.14
Azi:88.99 VertSec:-79.13

SurveyDepth:6772
TVD:6715.66 Inc:30.94
Azi:92.15 VertSec:-55.66

SurveyDepth:6819
TVD:6755.31 Inc:33.97
Azi:90.04 VertSec:-30.51

SurveyDepth:6866
TVD:6793.47 Inc:37.44
Azi:88.46 VertSec:-3.11

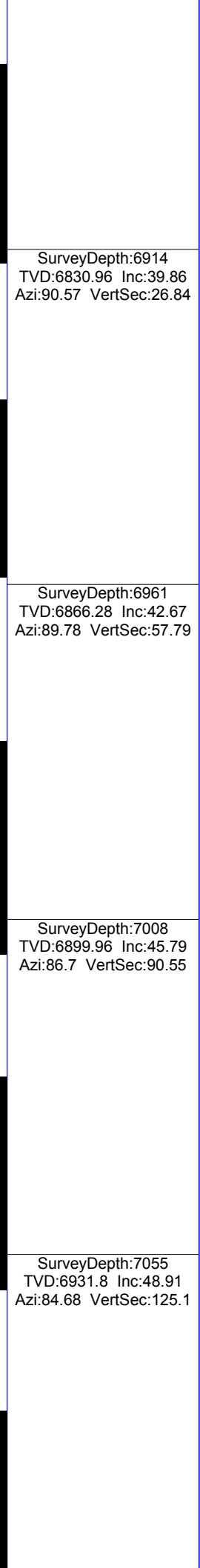
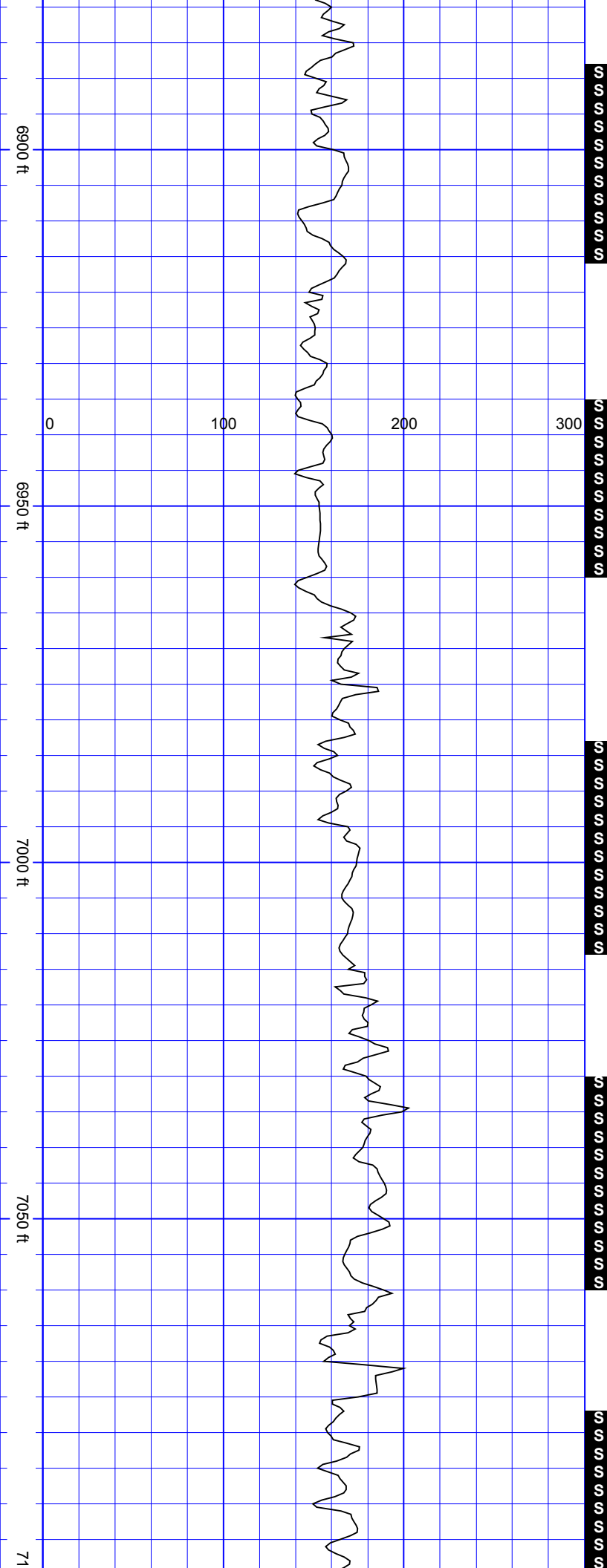
6700 ft

6750 ft

6800 ft

6850 ft

-1000	1200	3400	5600
0	200	400	600
9000	6000	3000	0



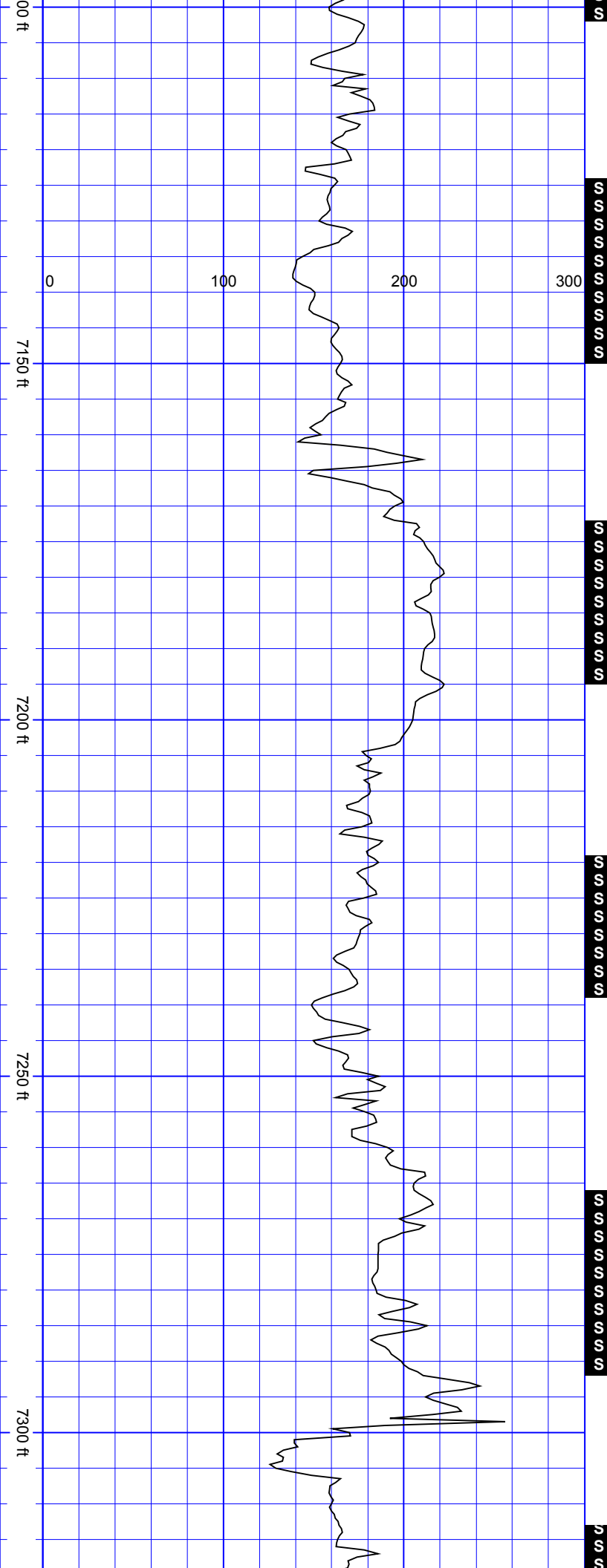
SurveyDepth:6914
TVD:6830.96 Inc:39.86
Azi:90.57 VertSec:26.84

SurveyDepth:6961
TVD:6866.28 Inc:42.67
Azi:89.78 VertSec:57.79

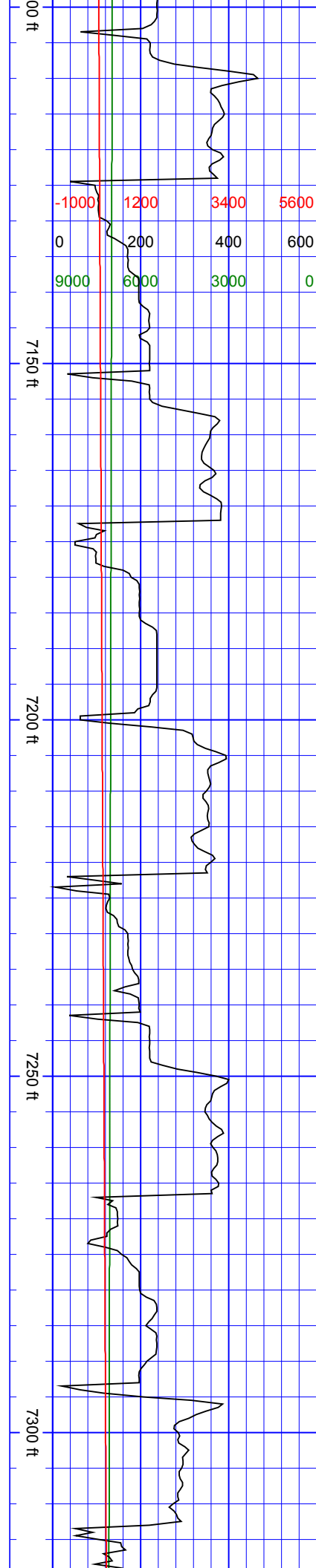
SurveyDepth:7008
TVD:6899.96 Inc:45.79
Azi:86.7 VertSec:90.55

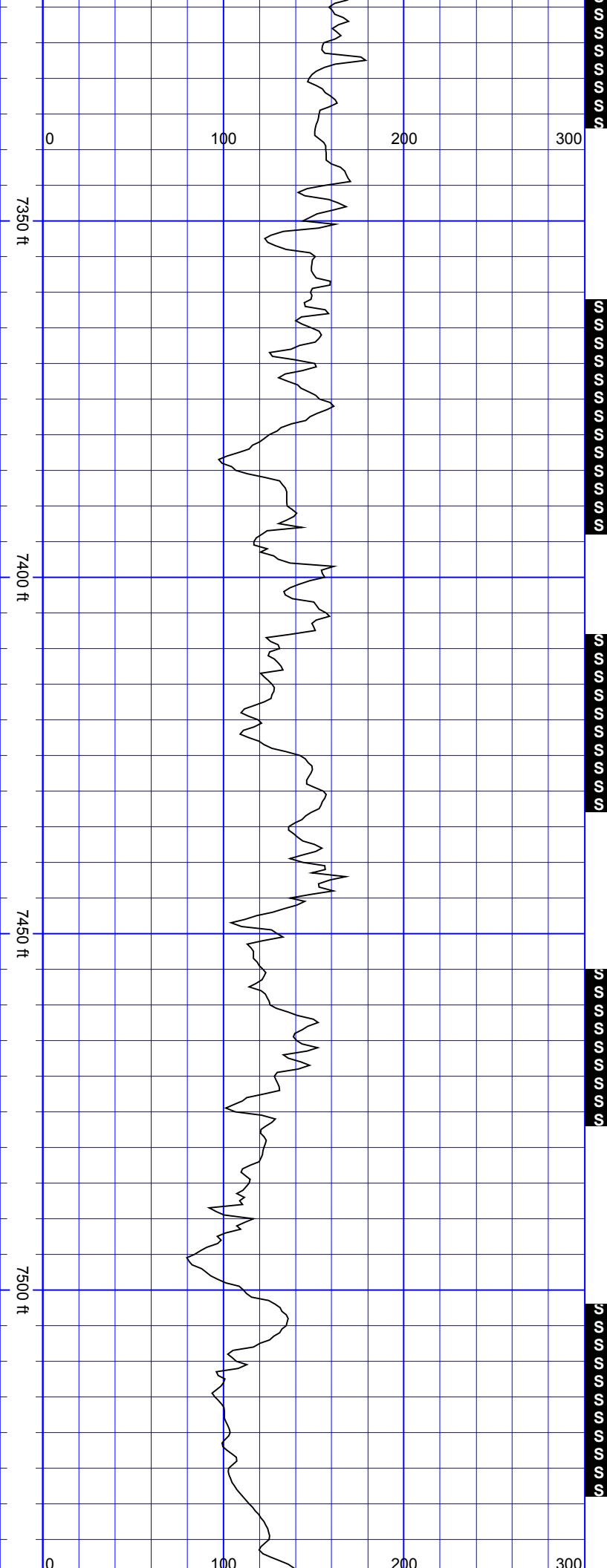
SurveyDepth:7055
TVD:6931.8 Inc:48.91
Azi:84.68 VertSec:125.1

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0 200 400 600
9000 8000 3000 0

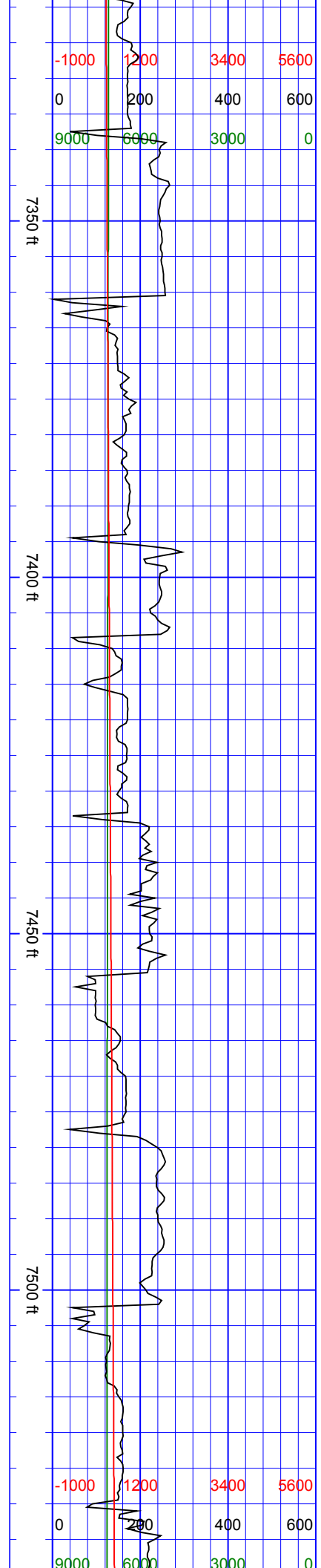


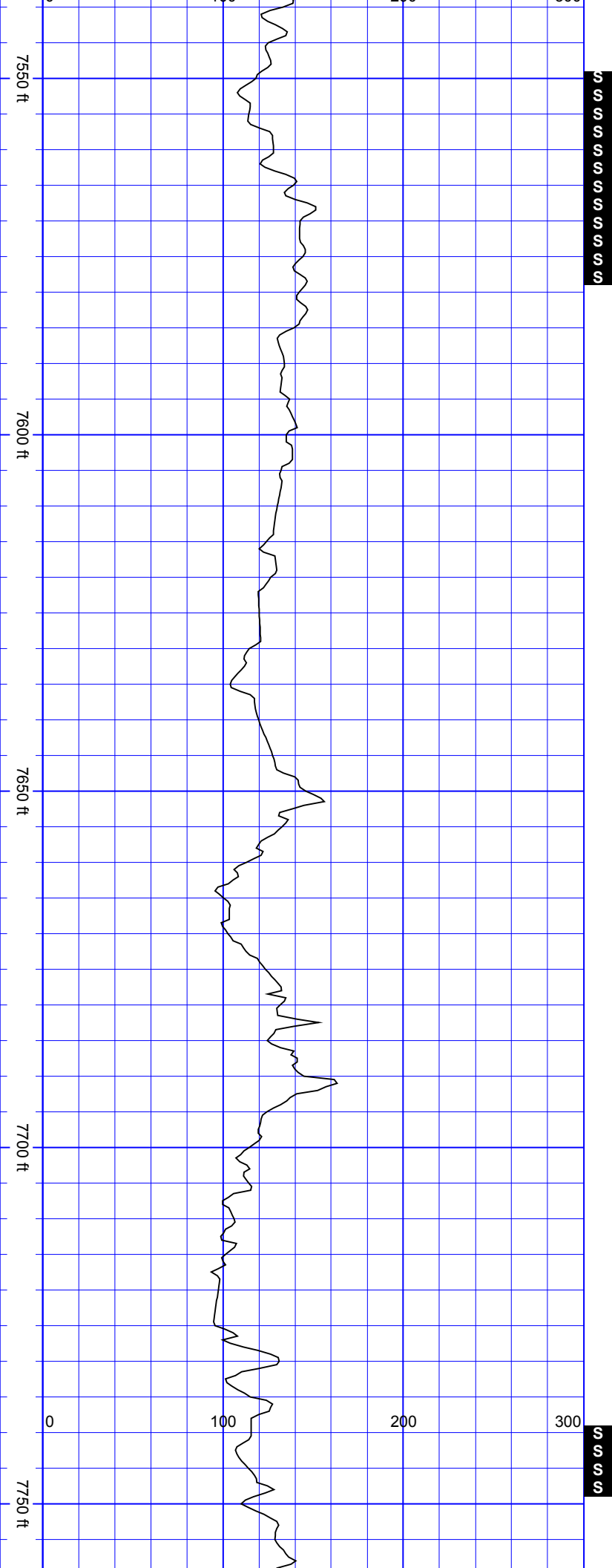
SurveyDepth:7103 TVD:6962.1 Inc:52.78 Azi:84.07 VertSec:162.28
SurveyDepth:7150 TVD:6989.49 Inc:55.94 Azi:85.47 VertSec:200.44
SurveyDepth:7197 TVD:7015.01 Inc:58.27 Azi:86.7 VertSec:239.89
SurveyDepth:7244 TVD:7038.8 Inc:60.91 Azi:87.67 VertSec:280.42
SurveyDepth:7292 TVD:7061.27 Inc:63.28 Azi:88.81 VertSec:322.83





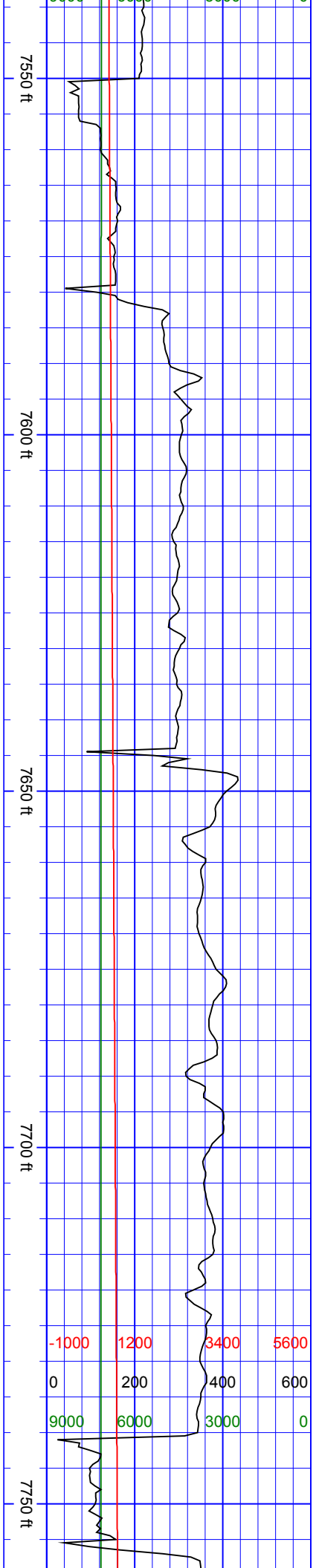
SurveyDepth:7339 TVD:7081.03 Inc:66.97 Azi:88.2 VertSec:365.45
SurveyDepth:7386 TVD:7097.79 Inc:71.24 Azi:88.02 VertSec:409.34
SurveyDepth:7433 TVD:7111.45 Inc:74.97 Azi:87.85 VertSec:454.29
SurveyDepth:7480 TVD:7122.46 Inc:77.92 Azi:87.67 VertSec:499.98

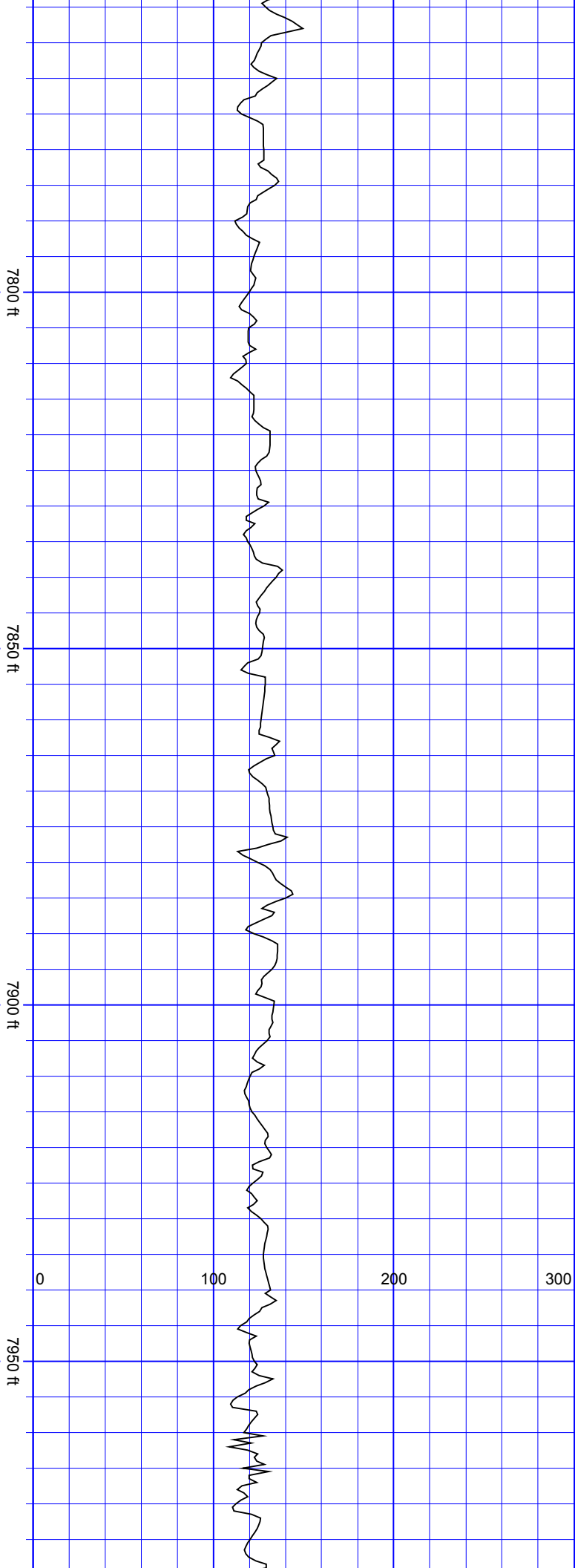




SurveyDepth:7575
TVD:7135.49 Inc:86.31
Azi:90.48
VertSec:593.92

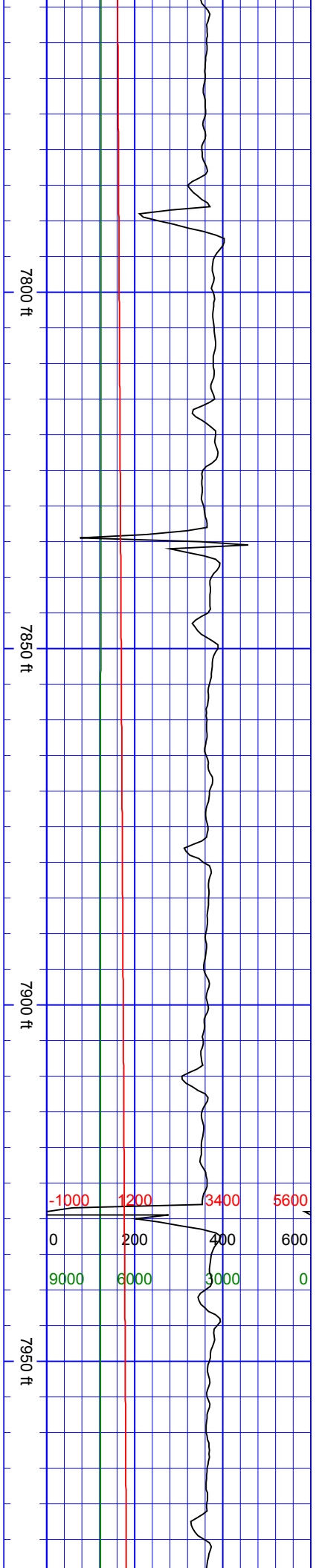
SurveyDepth:7670
TVD:7141.46 Inc:86.48
Azi:90.66
VertSec:688.55

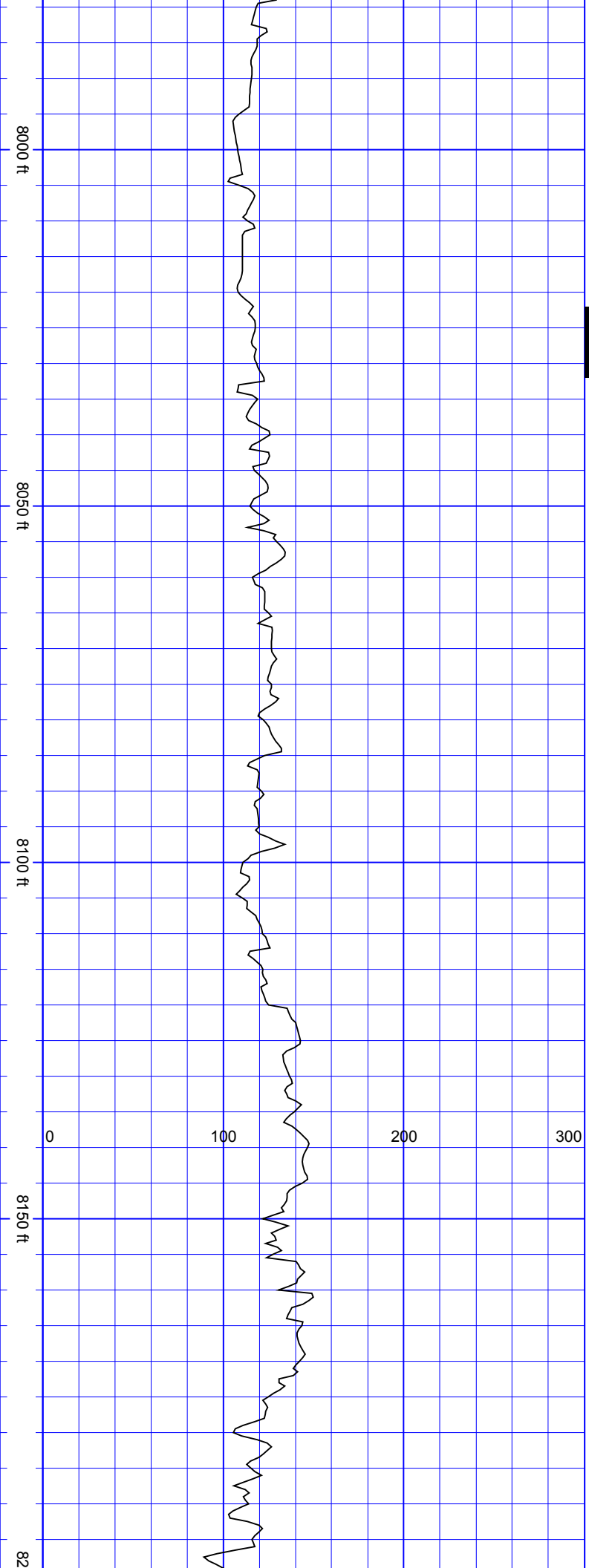




SurveyDepth:7764
TVD:7146.83 Inc:86.97
Azi:87.85
VertSec:782.31

SurveyDepth:7953
TVD:7156.39 Inc:87.23
Azi:85.74
VertSec:971.06

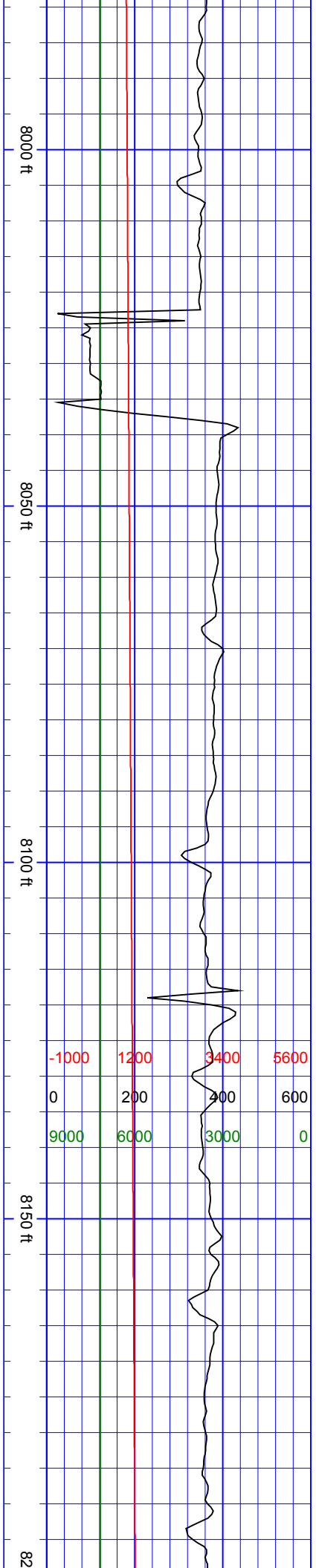


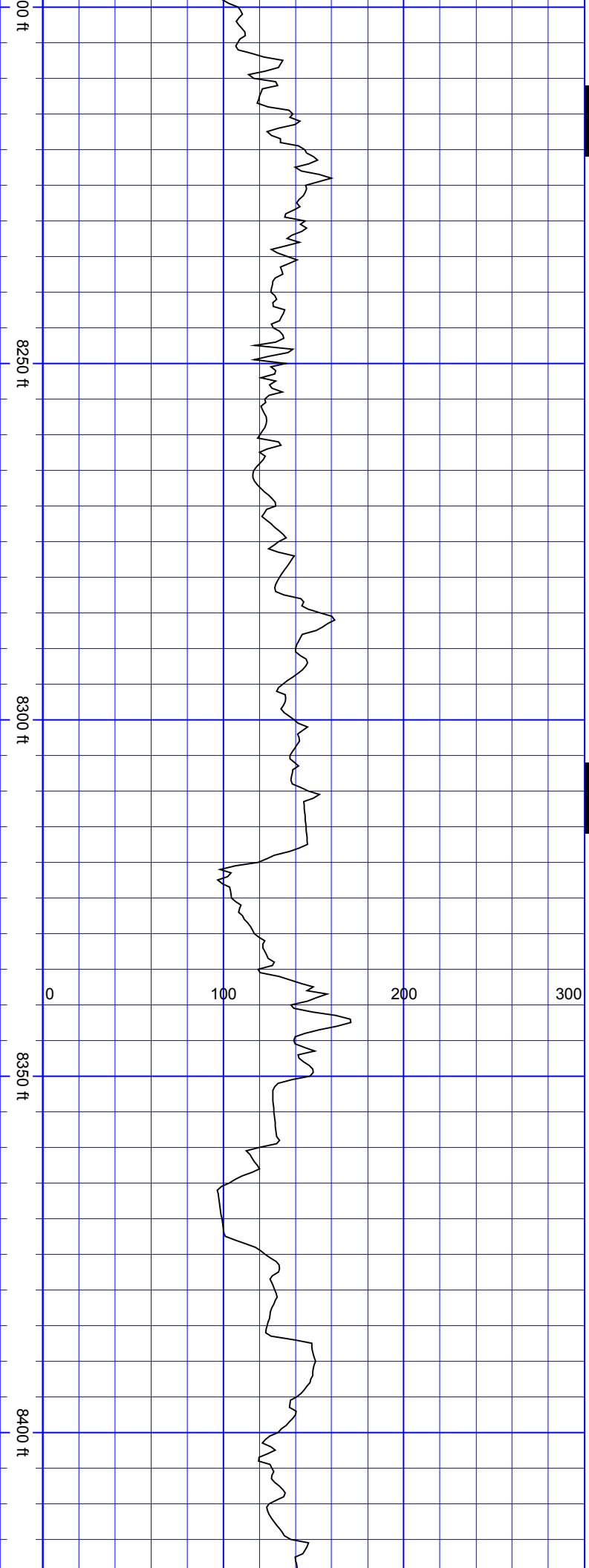


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SurveyDepth:8048
TVD:7160.73 Inc:87.54
Azi:87.67
VertSec:1065.95

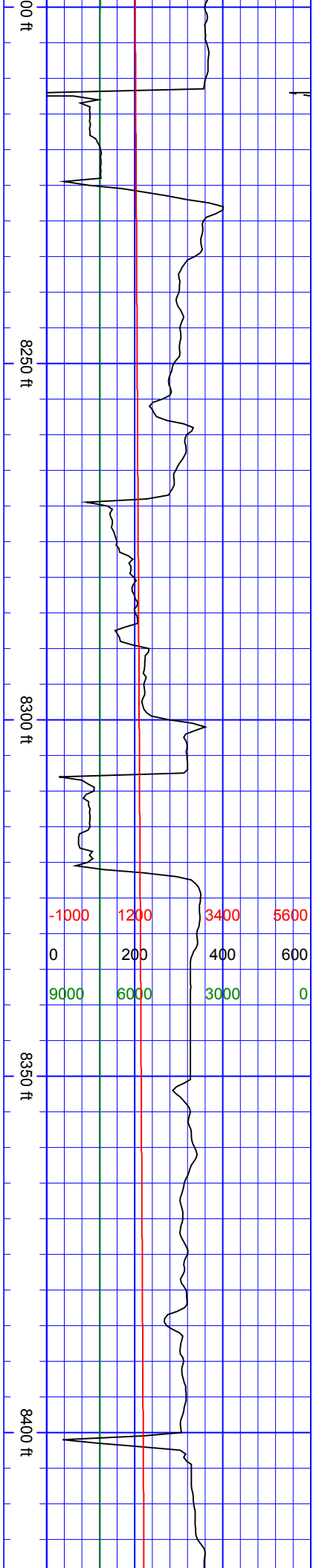
SurveyDepth:8142
TVD:7165.2 Inc:87.01
Azi:87.14
VertSec:1159.84

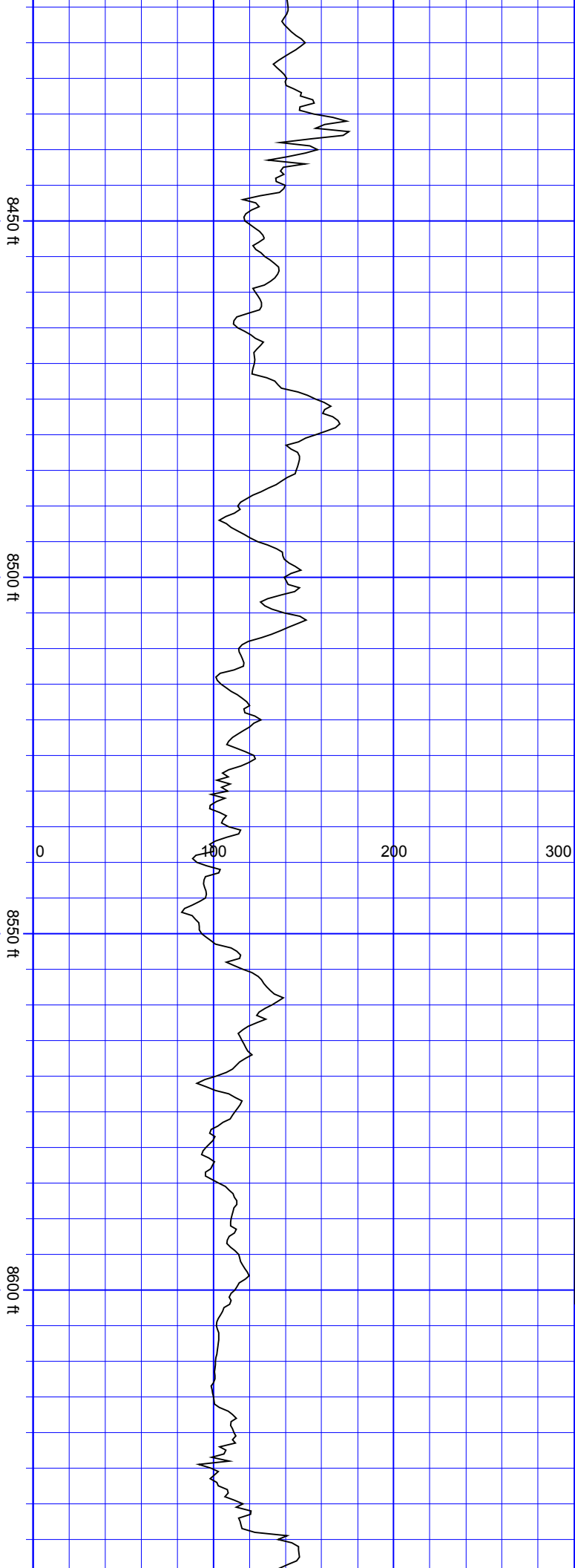




SurveyDepth:8237
TVD:7169.06 Inc:88.33
Azi:88.64
VertSec:1254.75

SurveyDepth:8331
TVD:7170.97 Inc:89.34
Azi:90.13
VertSec:1348.65

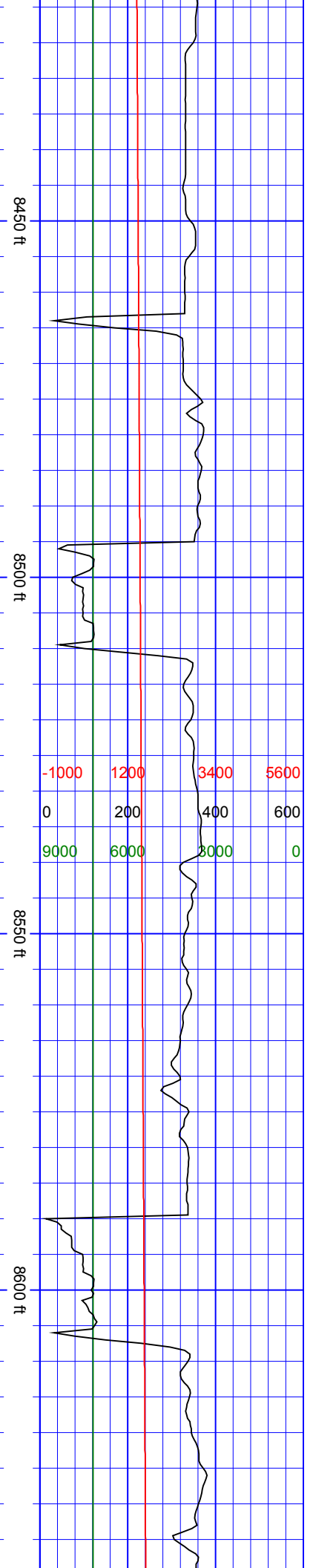


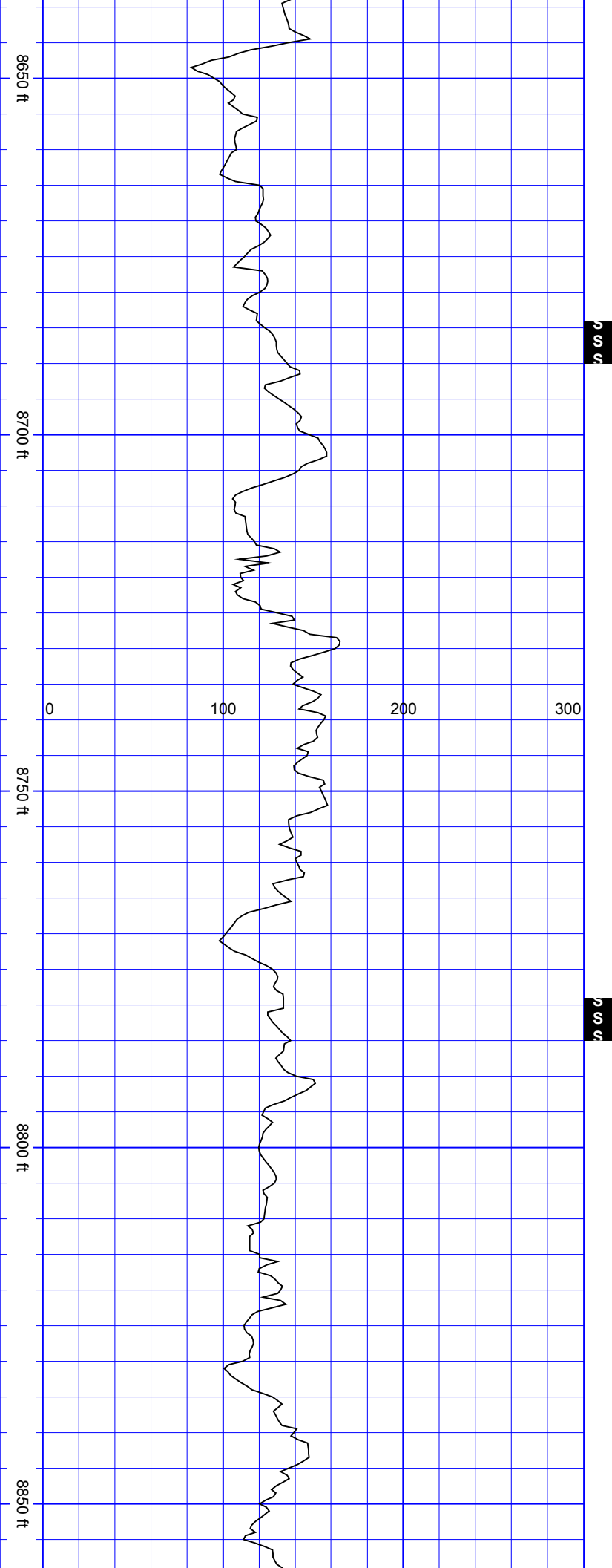


SurveyDepth:8426
TVD:7172.72 Inc:88.55
Azi:89.96
VertSec:1443.49

SurveyDepth:8521
TVD:7174.1 Inc:89.78
Azi:90.13
VertSec:1538.35

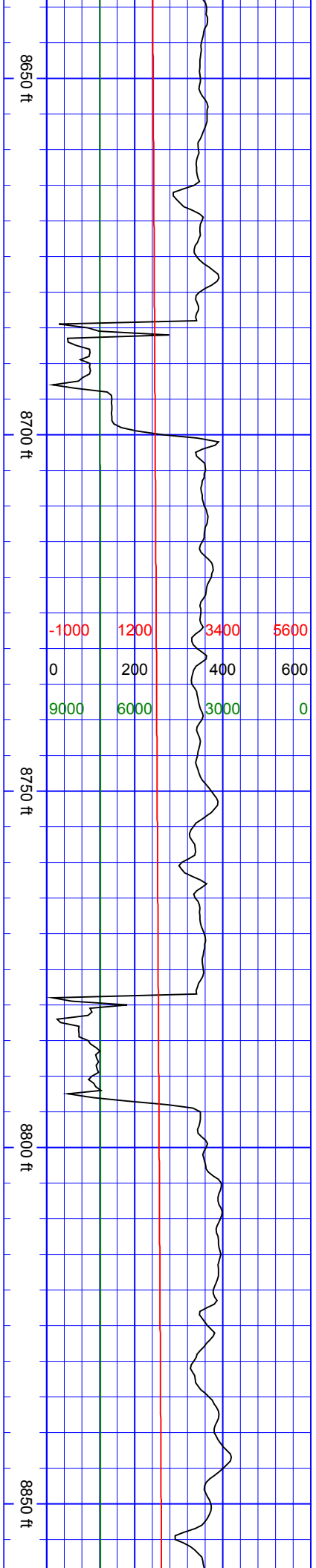
SurveyDepth:8615
TVD:7172.66 Inc:91.98
Azi:90.48
VertSec:1632.18

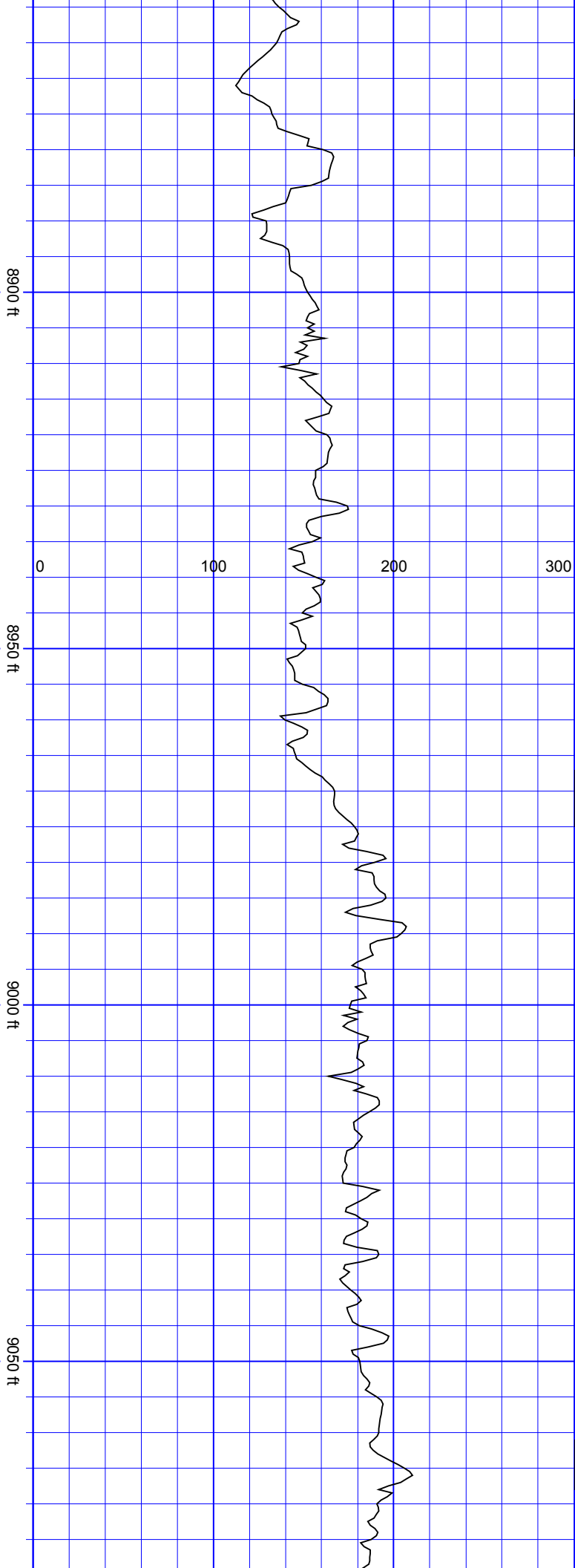




SurveyDepth:8710
TVD:7167.23 Inc:94.57
Azi:88.99
VertSec:1726.9

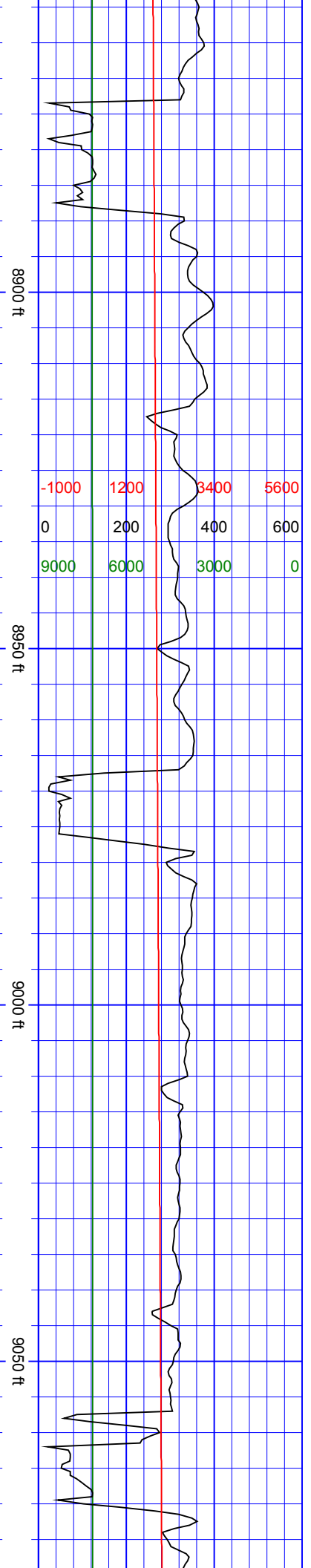
SurveyDepth:8804
TVD:7159.85 Inc:94.44
Azi:87.58
VertSec:1820.58

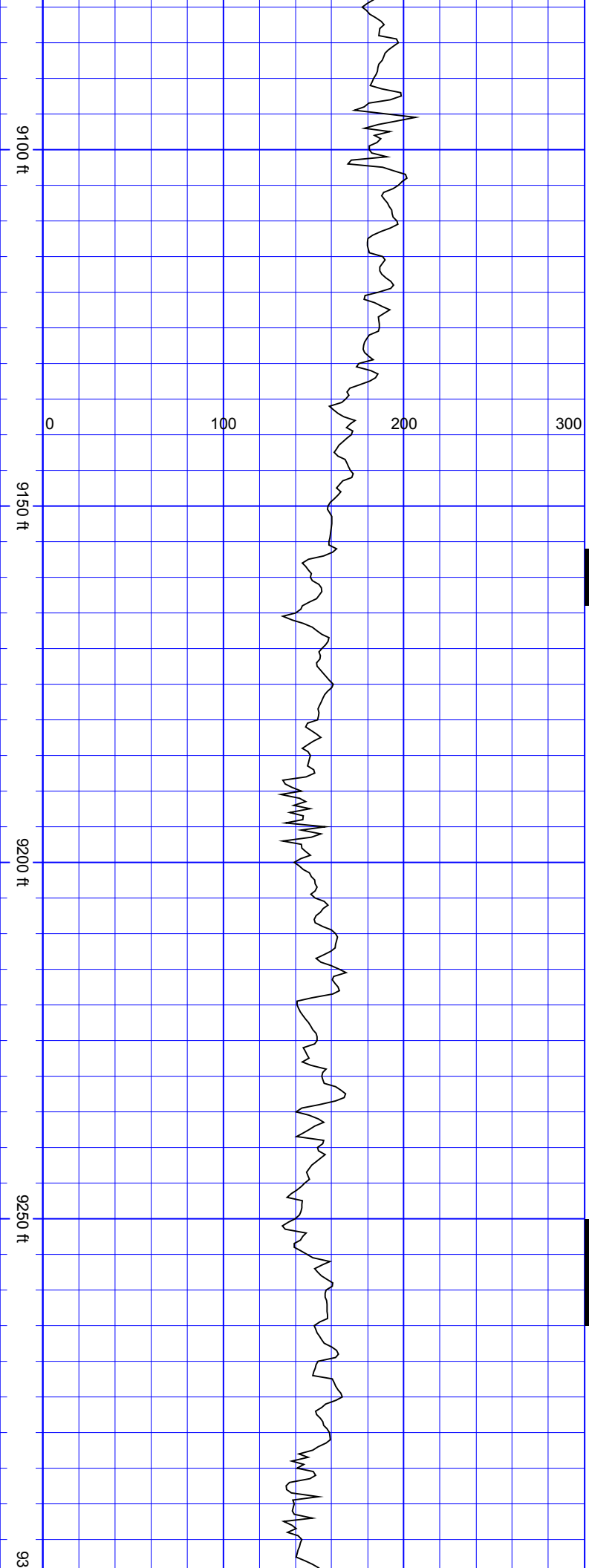




SurveyDepth:8898
TVD:7153.33 Inc:93.52
Azi:86.53
VertSec:1914.36

SurveyDepth:8992
TVD:7147.55 Inc:93.52
Azi:87.94
VertSec:2008.18





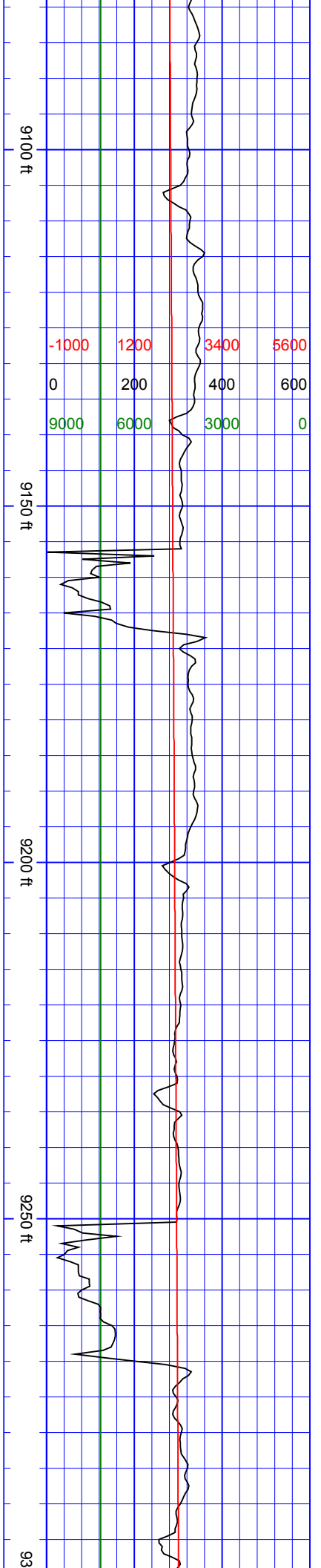
SurveyDepth:9087
TVD:7143.22 Inc:91.71
Azi:87.85
VertSec:2103.06

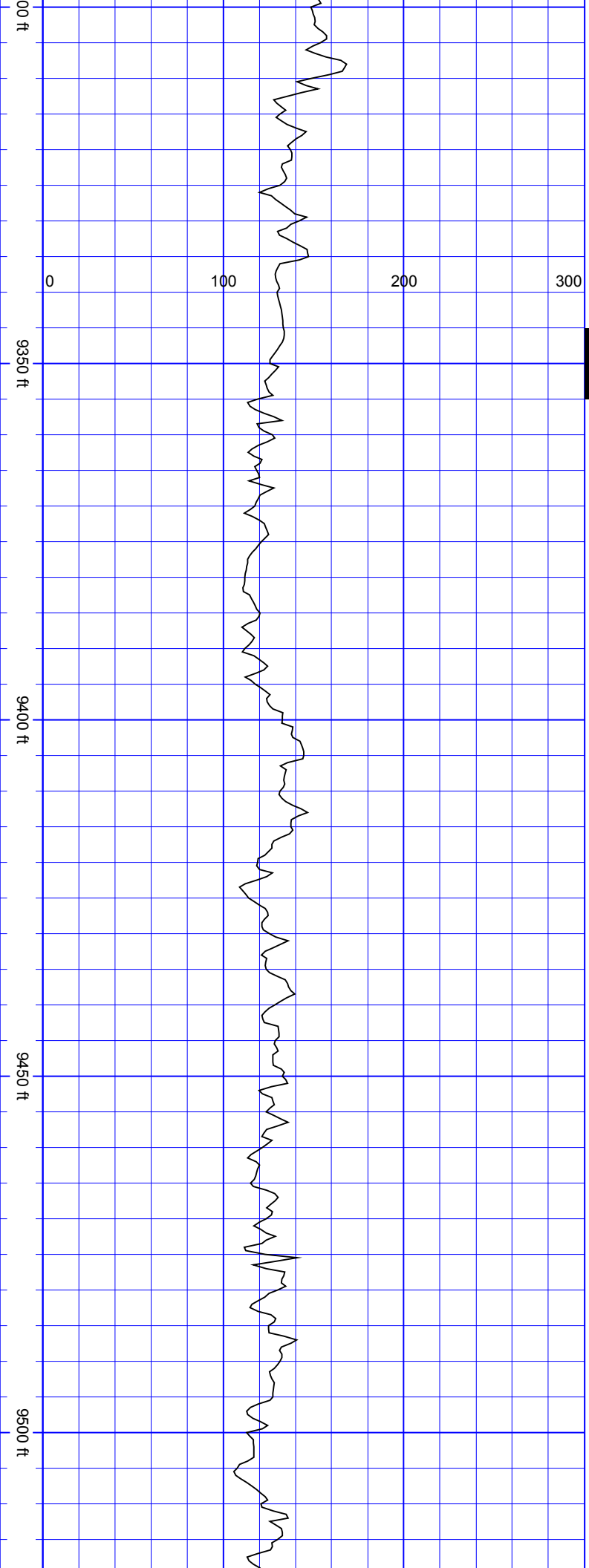
SurveyDepth:9181
TVD:7140.66 Inc:91.41
Azi:87.41
VertSec:2197.02

SurveyDepth:9276
TVD:7137.96 Inc:91.85
Azi:88.99
VertSec:2291.96

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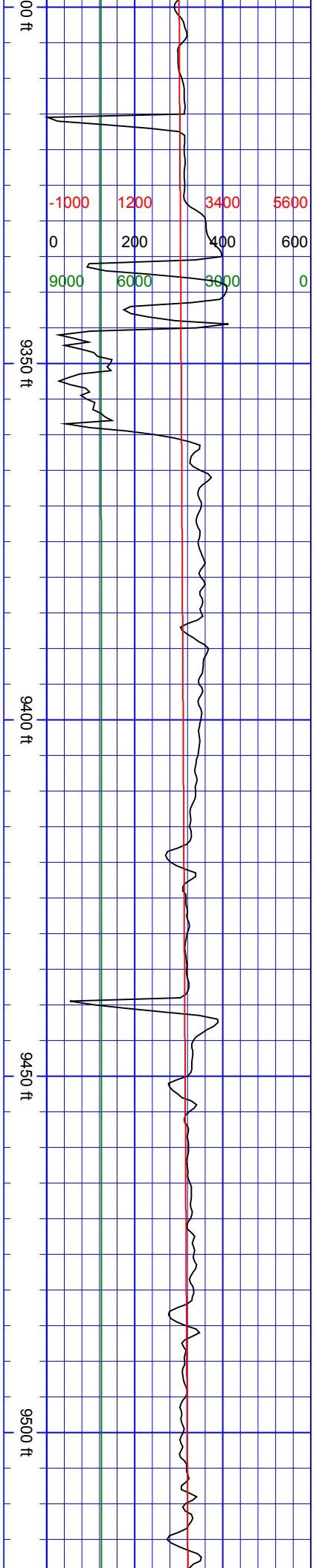


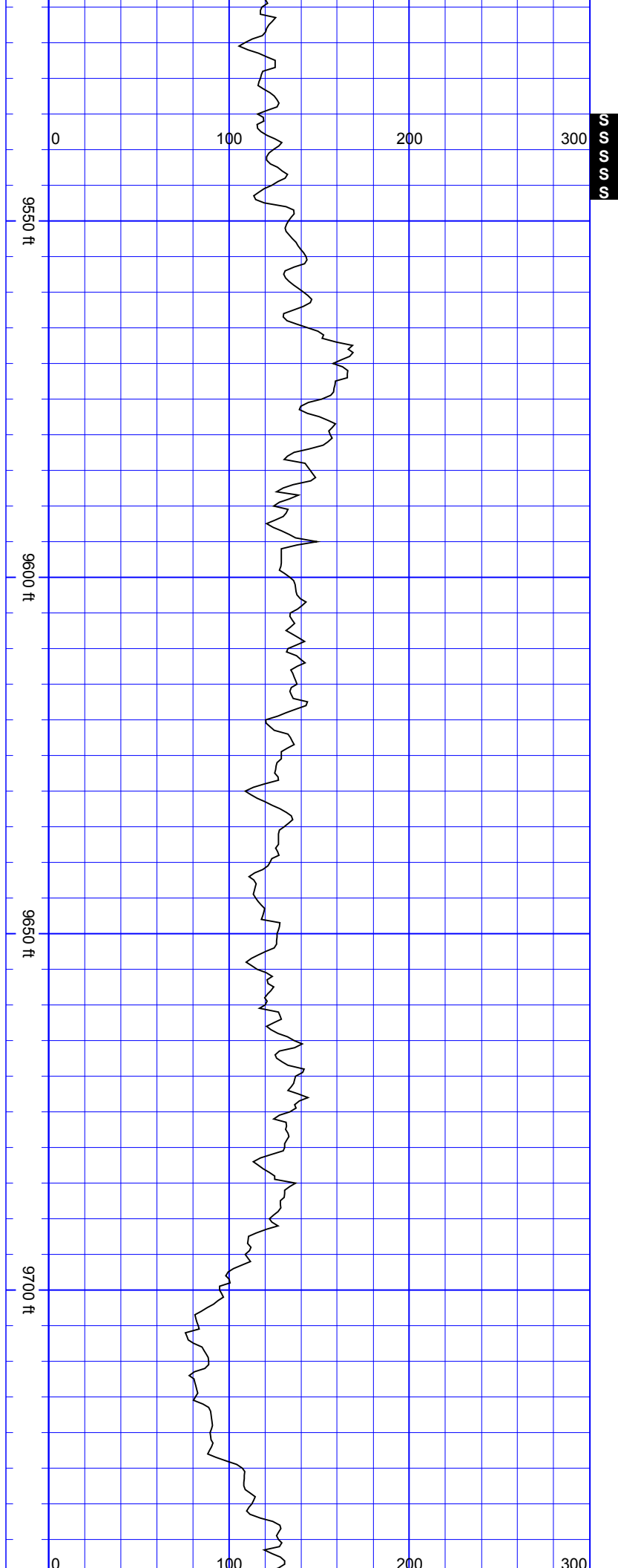


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SurveyDepth:9371
TVD:7135.15 Inc:91.54
Azi:89.78
VertSec:2386.83

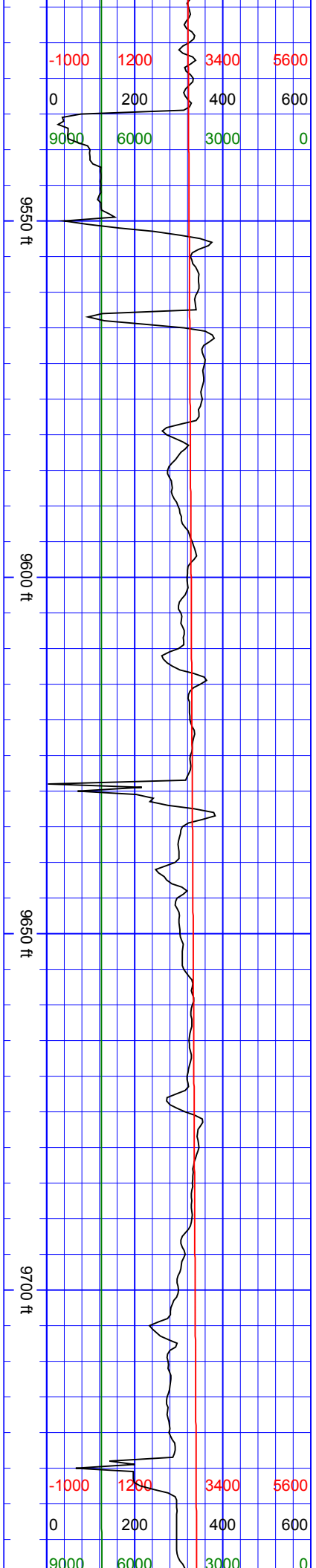
SurveyDepth:9466
TVD:7132.7 Inc:91.41
Azi:89.08
VertSec:2481.72

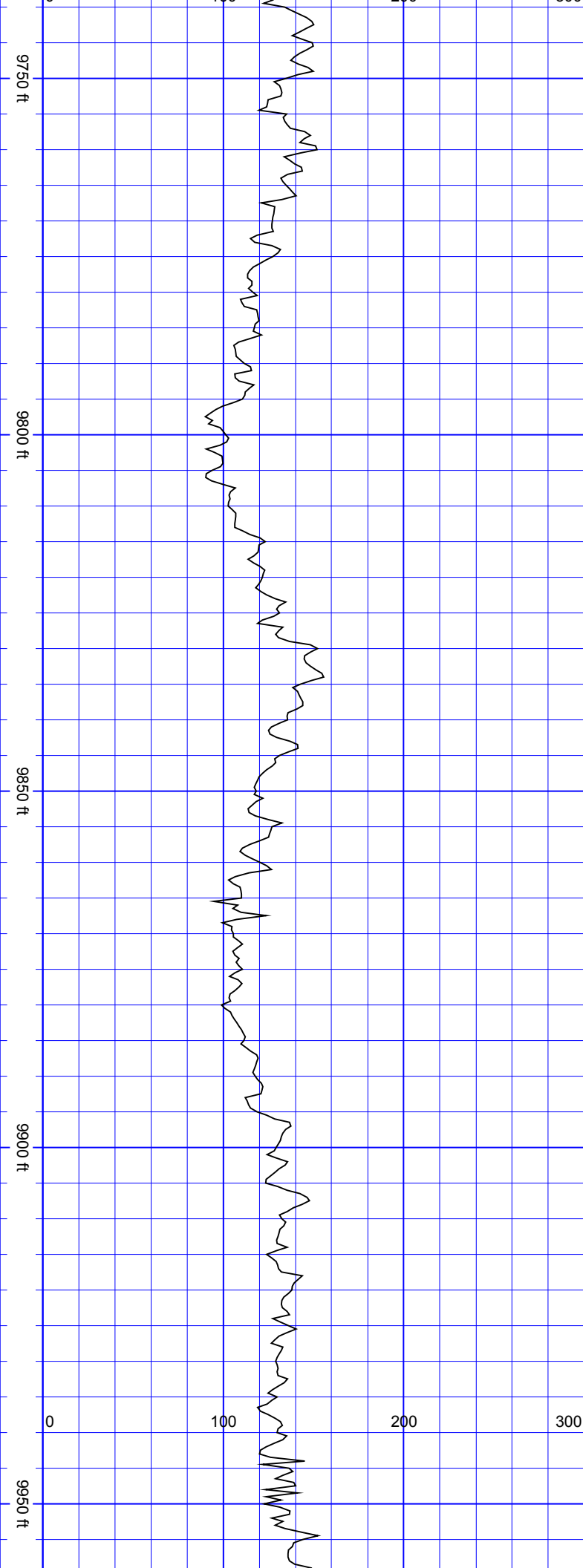




SurveyDepth:9560
TVD:7128.81 Inc:93.34
Azi:89.61
VertSec:2575.55

SurveyDepth:9654
TVD:7123.36 Inc:93.3
Azi:88.99
VertSec:2669.32

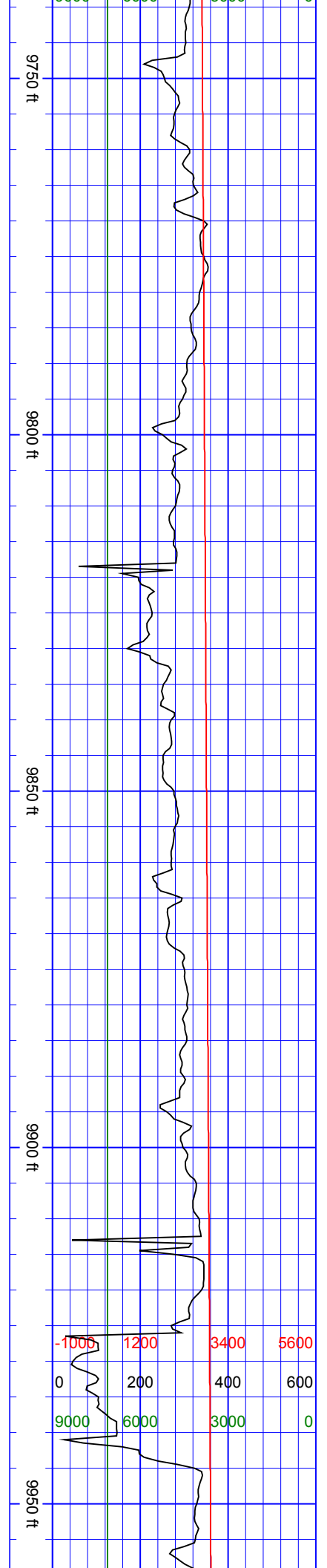


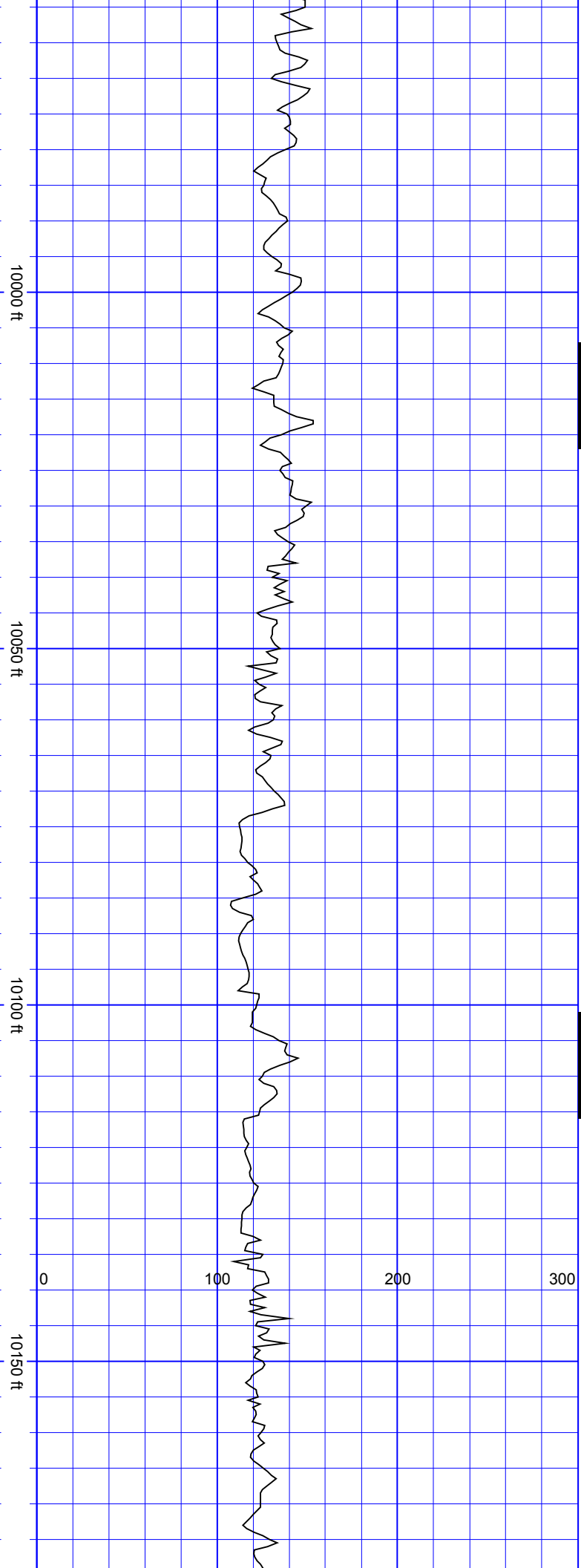


SurveyDepth:9749
TVD:7118.08 Inc:93.08
Azi:88.37
VertSec:2764.13

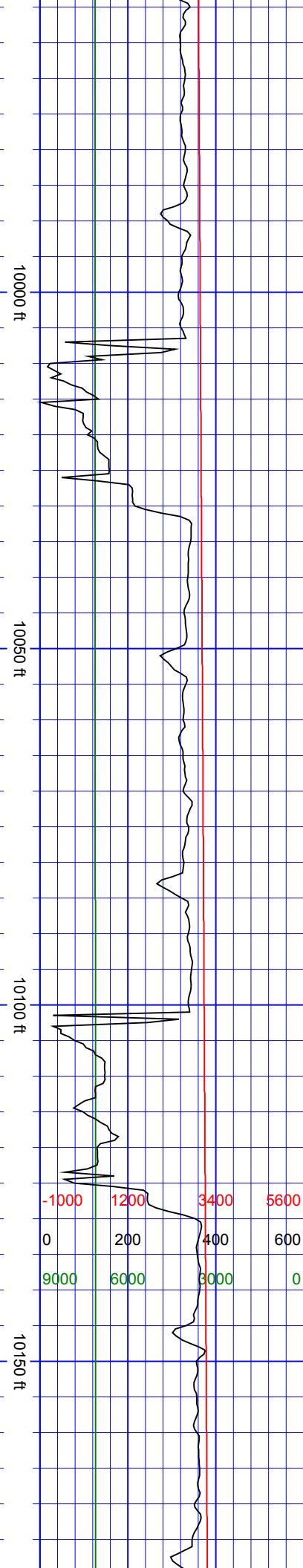
SurveyDepth:9843
TVD:7113.07 Inc:93.03
Azi:87.67
VertSec:2857.98

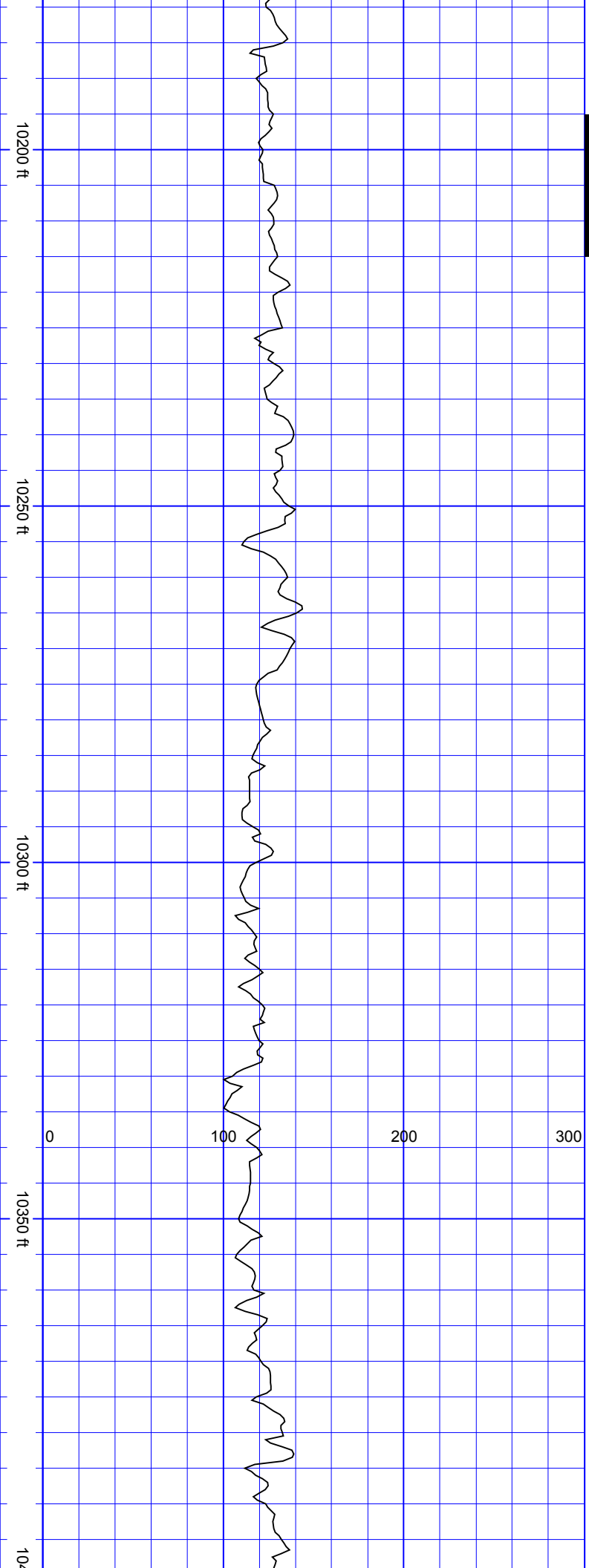
SurveyDepth:9938
TVD:7108.41 Inc:92.59
Azi:88.64
VertSec:2952.84





SurveyDepth:10032
TVD:7104.48 Inc:92.2
Azi:90.4
VertSec:3046.67

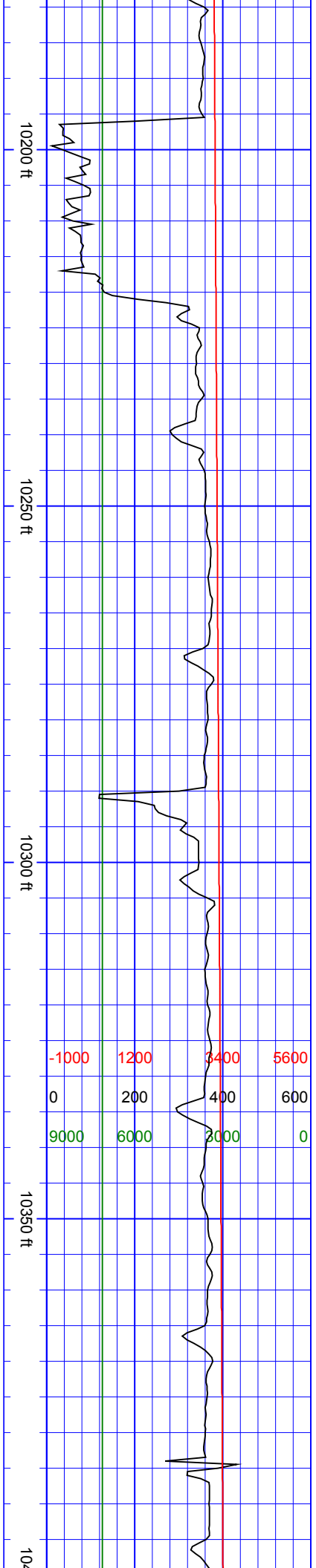




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SurveyDepth:10221
TVD:7099.62 Inc:90.44
Azi:92.33
VertSec:3235.07

SurveyDepth:10314
TVD:7098.48 Inc:90.97
Azi:92.15
VertSec:3327.68



SurveyDepth:10409
TVD:7096.08 Inc:91.93
Azi:91.28
VertSec:3422.32

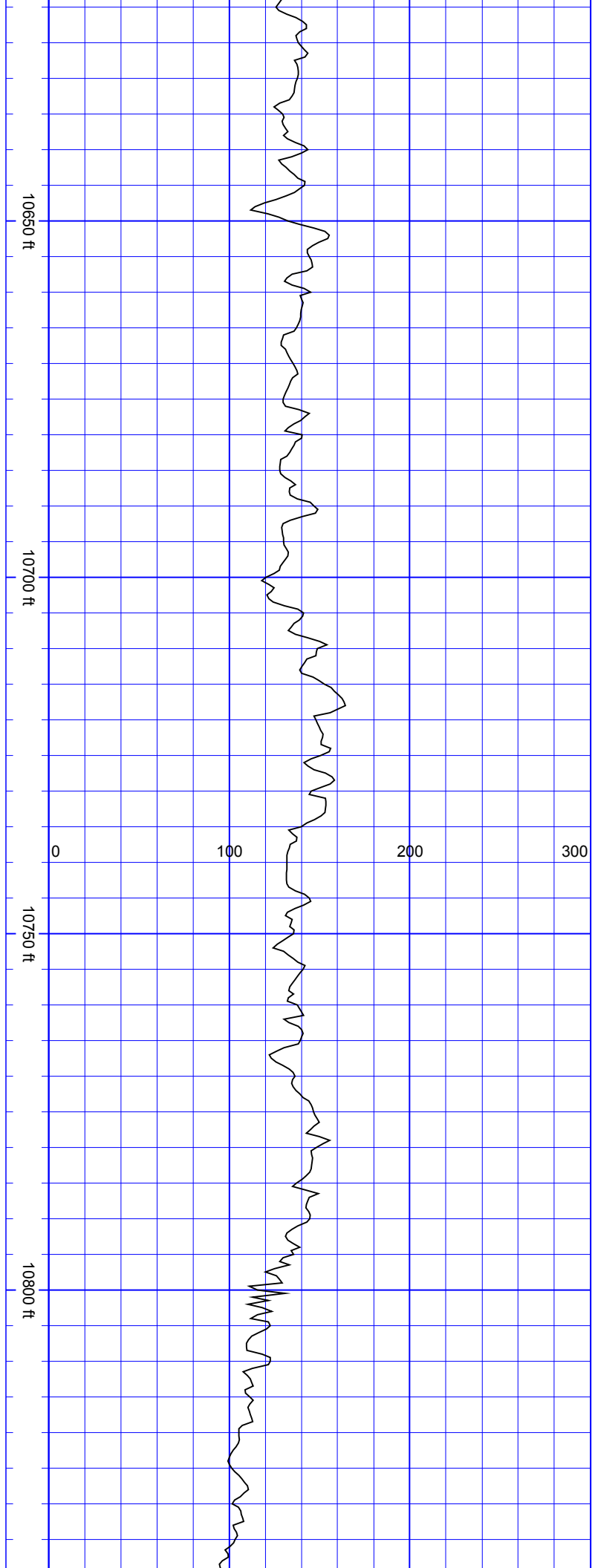
SurveyDepth:10504
TVD:7095.13 Inc:89.21
Azi:91.98 VertSec:3517

SurveyDepth:10598
TVD:7096.76 Inc:88.81
Azi:91.54
VertSec:3610.66

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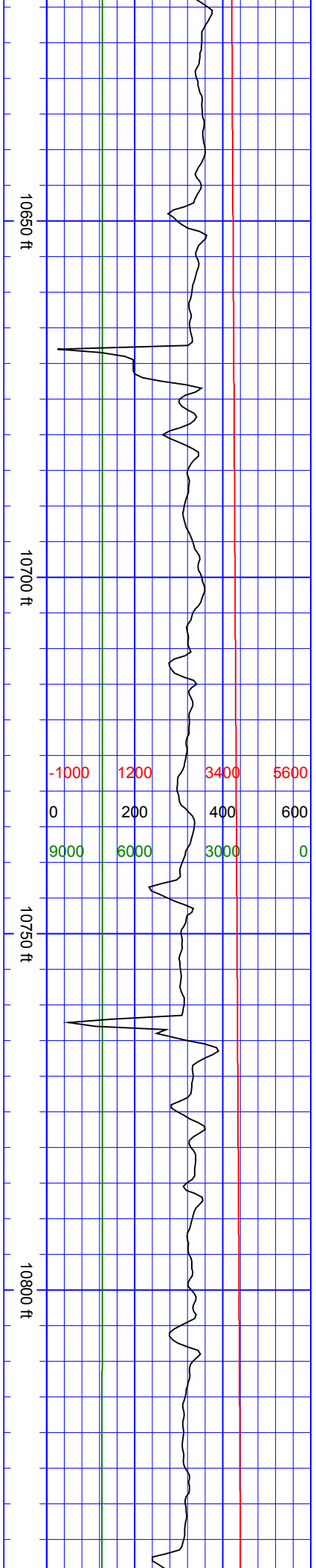
October 24, 2018

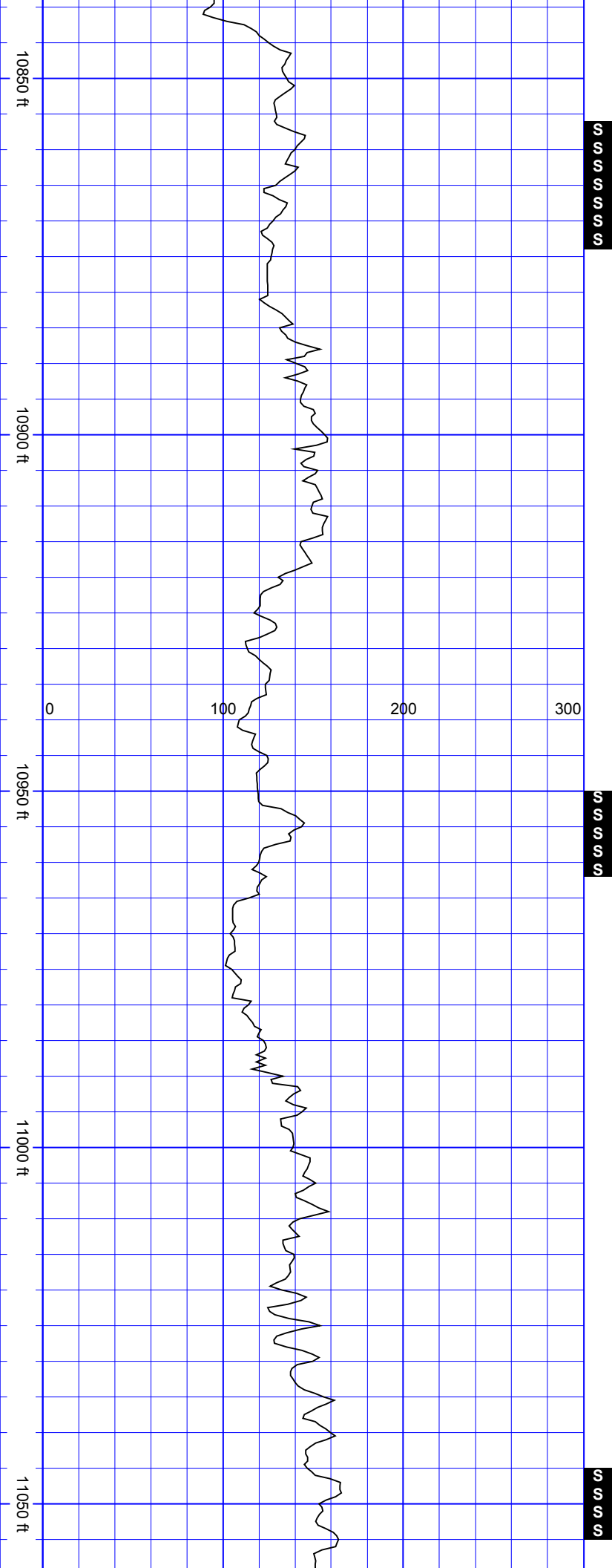
-1000	1200	3400	5600
0	200	400	600
9000	6000	3000	0



SurveyDepth:10693
TVD:7099.02 Inc:88.46
Azi:91.1
VertSec:3705.36

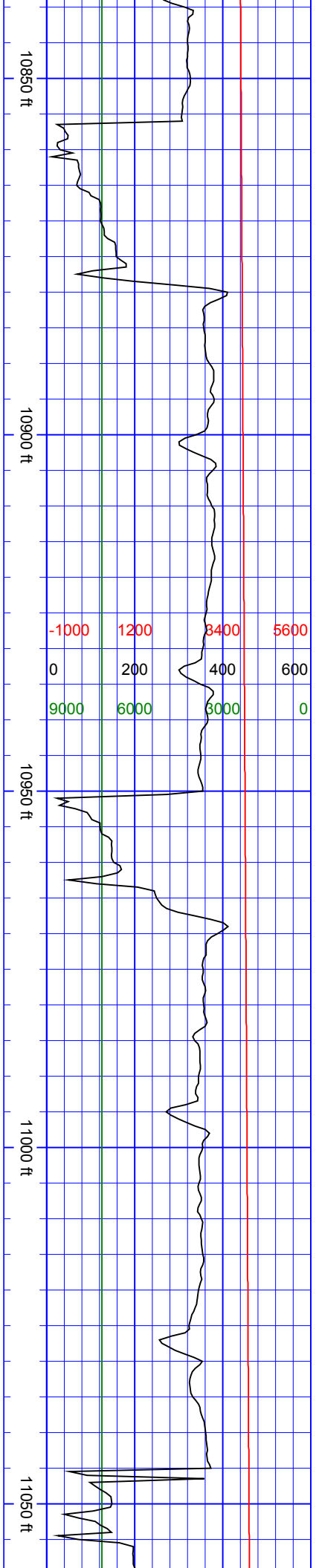
SurveyDepth:10787
TVD:7102.04 Inc:87.85
Azi:91.01
VertSec:3799.08

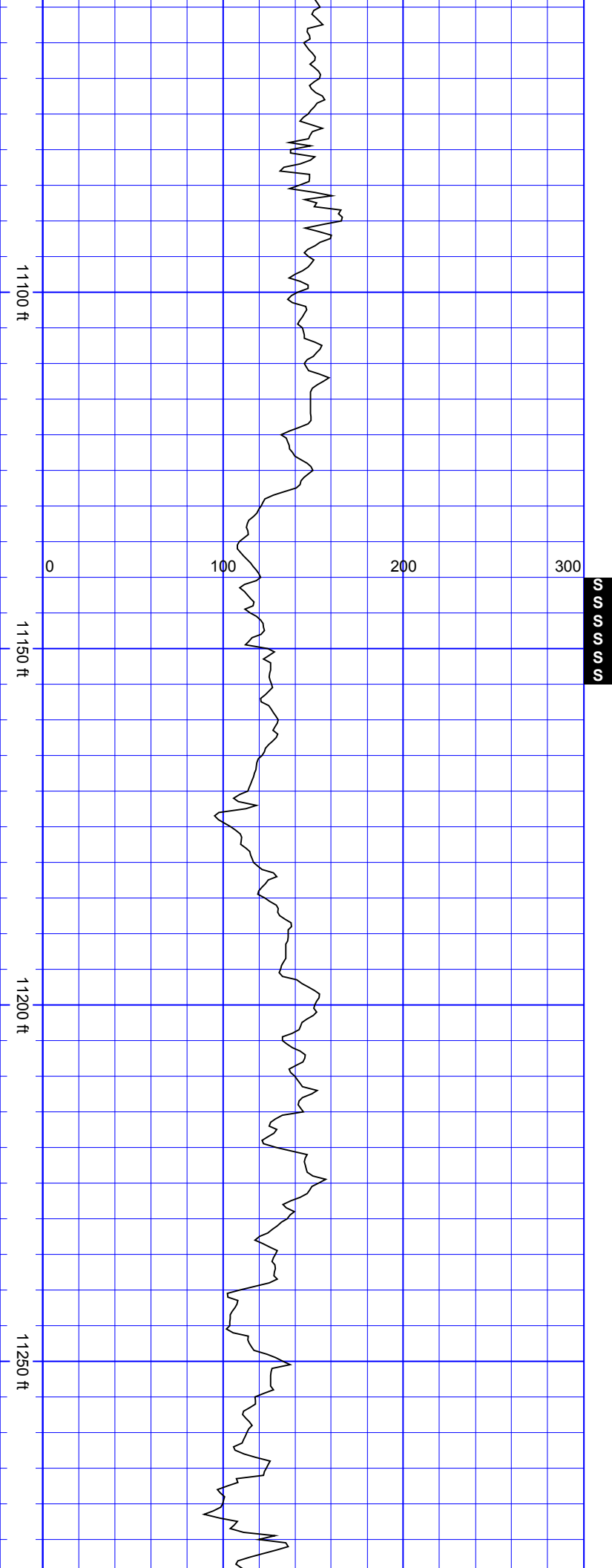




SurveyDepth:10881
TVD:7104.6 Inc:89.03
Azi:90.22
VertSec:3892.85

SurveyDepth:10976
TVD:7105.04 Inc:90.44
Azi:90.13
VertSec:3987.71

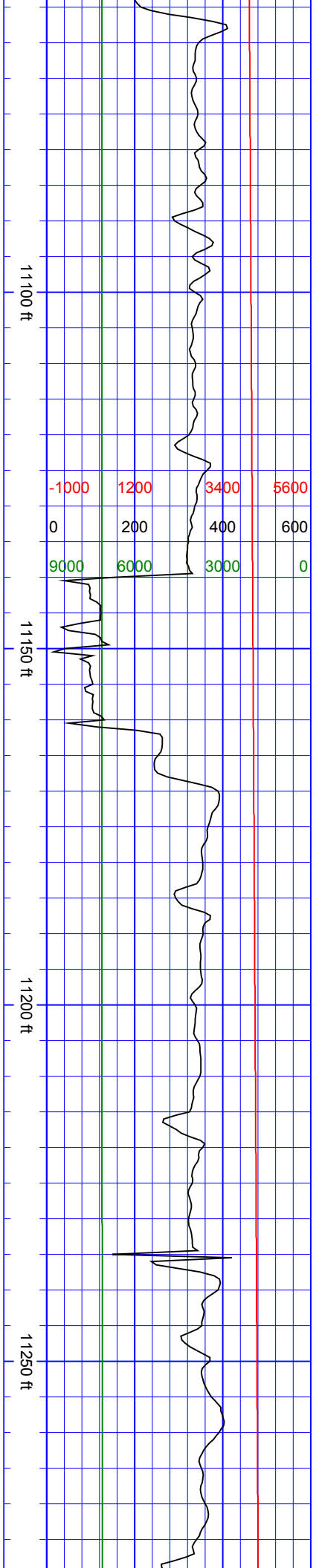


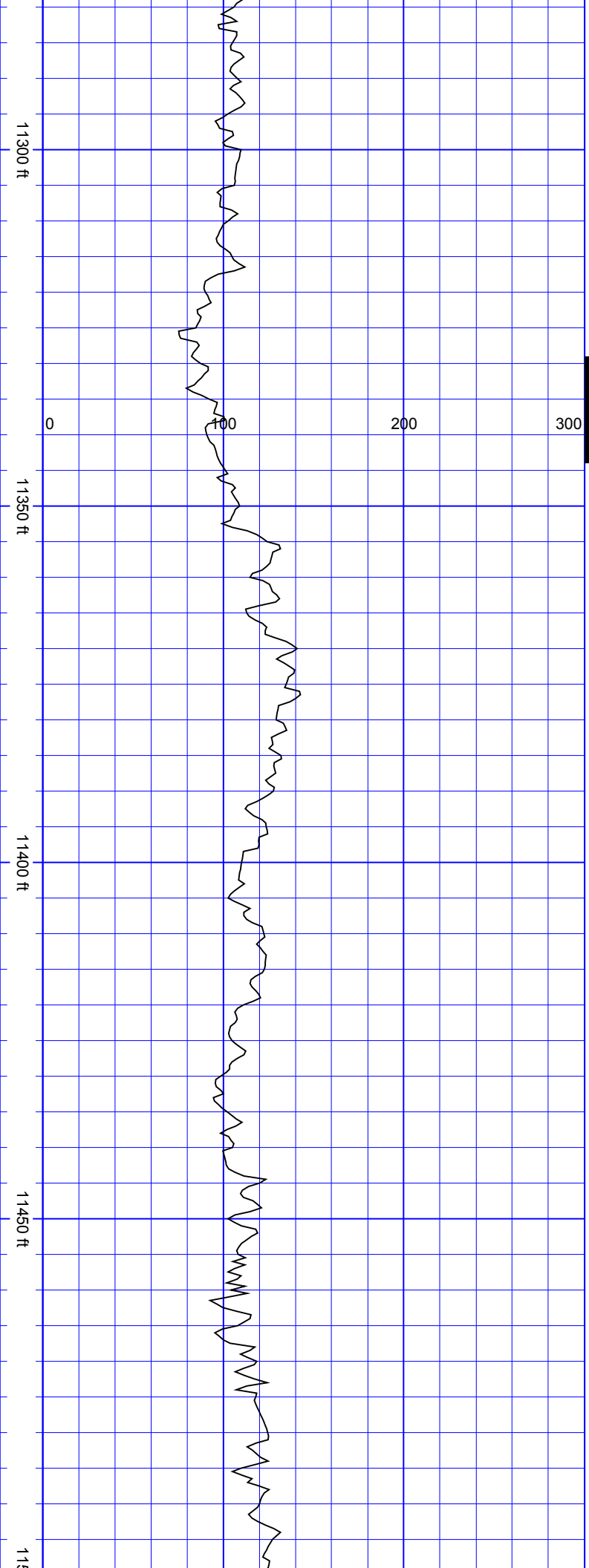


SurveyDepth:11071
TVD:7104.39 Inc:90.35
Azi:89.78
VertSec:4082.58

SurveyDepth:11165
TVD:7103.41 Inc:90.84
Azi:89.34
VertSec:4176.48

SurveyDepth:11260
TVD:7102.38 Inc:90.4
Azi:88.9
VertSec:4271.41

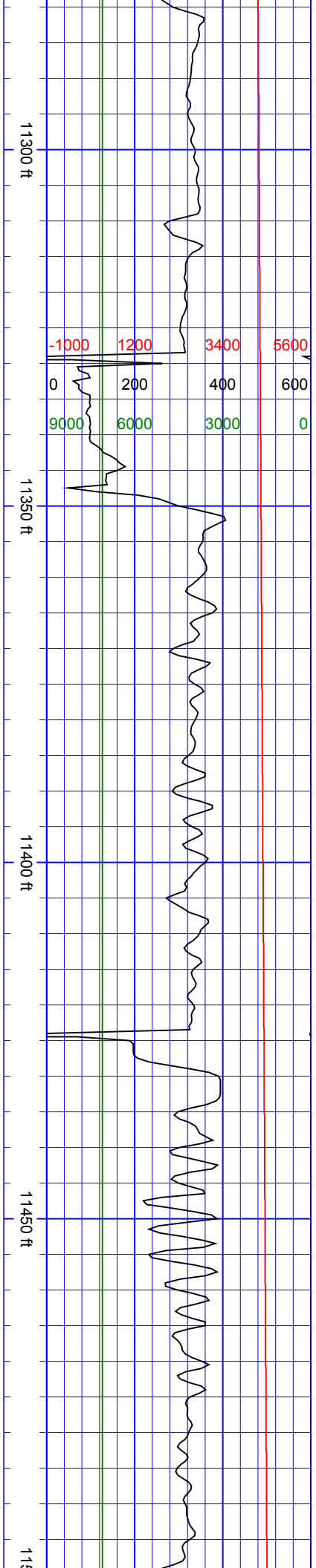


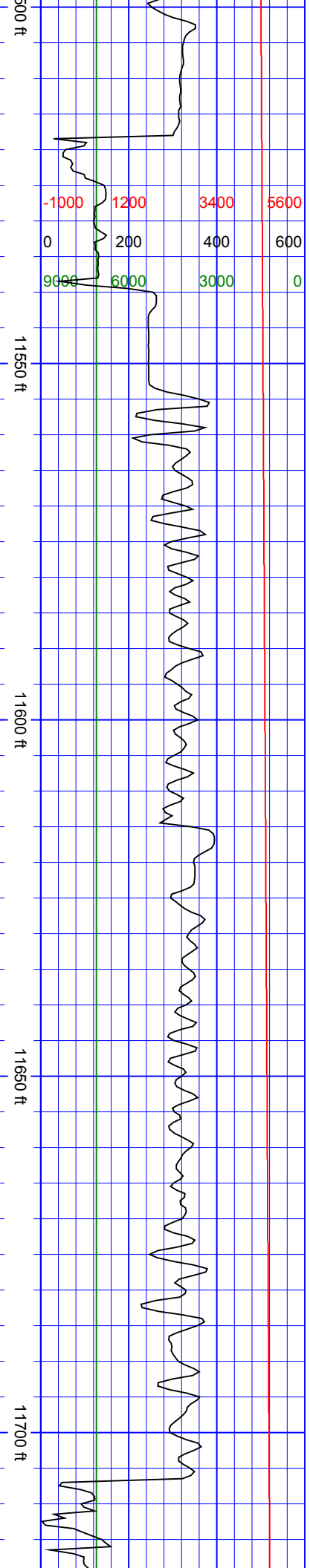


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SurveyDepth:11354
TVD:7101.12 Inc:91.14
Azi:89.43
VertSec:4365.33

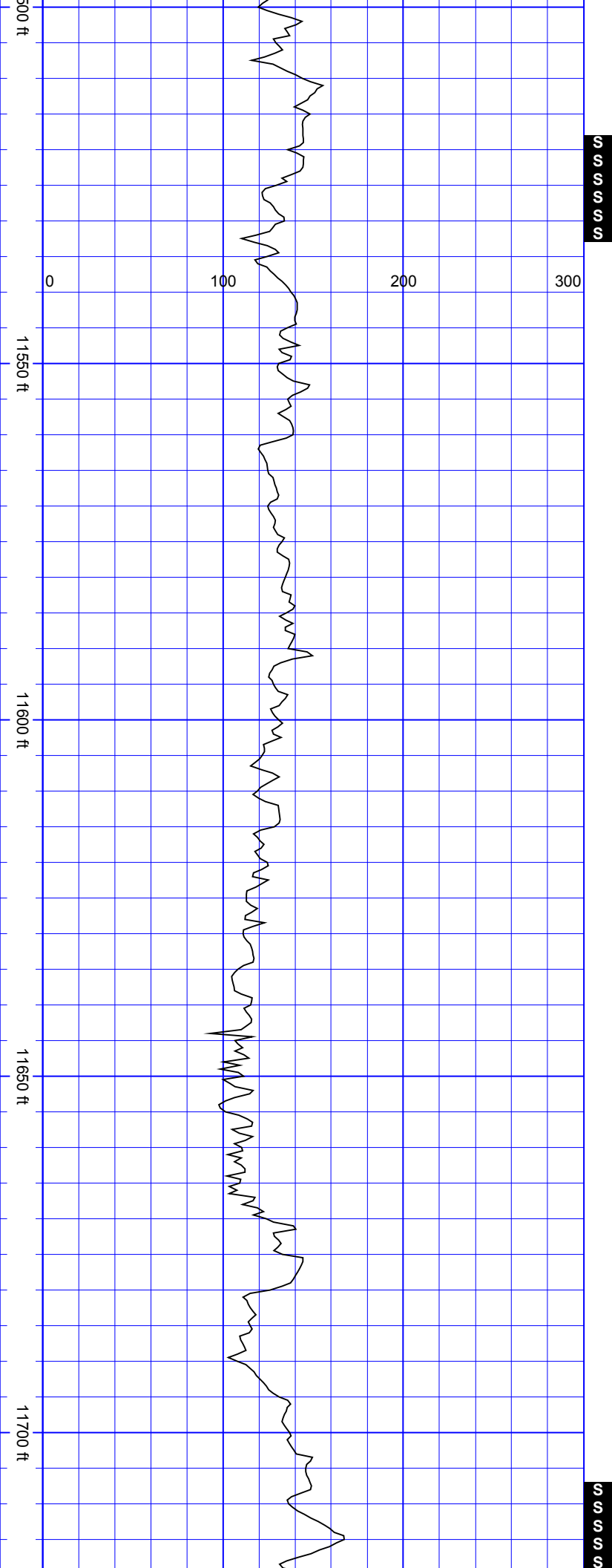
SurveyDepth:11449
TVD:7099.08 Inc:91.32
Azi:88.81
VertSec:4460.24

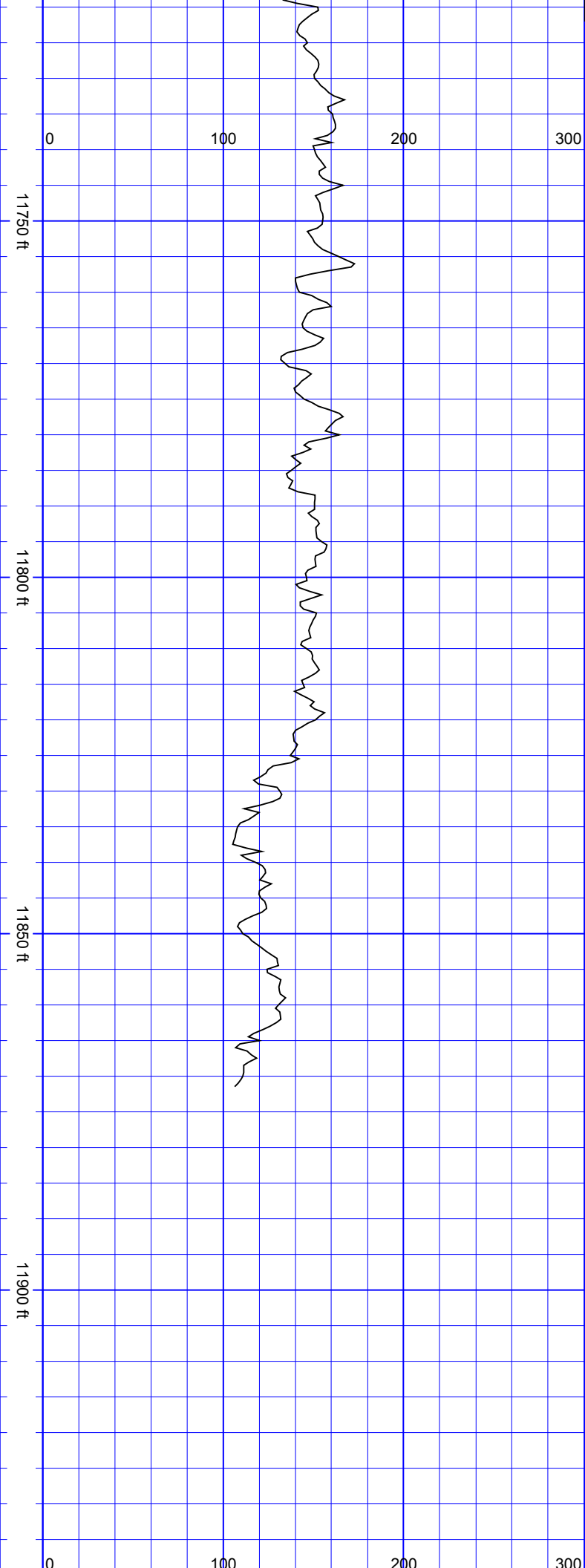




SurveyDepth:11543
TVD:7096.84 Inc:91.41
Azi:90.66
VertSec:4554.1

SurveyDepth:11638
TVD:7094.73 Inc:91.14
Azi:89.96
VertSec:4648.92





SurveyDepth:11732
TVD:7094.05 Inc:89.69
Azi:90.4
VertSec:4742.77

SurveyDepth:11826
TVD:7094.8 Inc:89.39
Azi:91.01
VertSec:4836.57

SurveyDepth:11866
TVD:7095.26 Inc:89.3
Azi:90.66
VertSec:4876.48

Extrapolation to Bit

SurveyDepth:11935
TVD:7096.1 Inc:89.3

