



Build & Lateral

Job #:

185227

Well ID:

16191029

Scale:

5" = 100 ft

Type:

MD

Well Site Information

Oil Company Crestone Peak Resources

Surface Location S4-T2N-R66W

Well Name DAVIS 1K-9H-G266

API 05-123-46517-00

Field DJ BASIN

State CO

Country USA

Surface Coordinates

Well Type Horizontal

Latitude 40° 9' 16 N

Longitude 104° 46' 40 W

N / S Coordinates 1,299,918.88 us/ft

E / W Coordinates 3,201,835.63 us/ft

Azimuth Reference True North

Grid Convergence 0.47°

MWD Engineers

Lead Hand Aaron Clark

Second Hand Chad Vallad

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 14,639.00 ft Spud Date Jul/28/2018 End Date Aug/01/2018

(MD) Log Interval Start Depth 2,142.12 ft End Depth 14,639.00 ft

Bore Hole Record

Hole Size From To

13.50 in 0.00 ft 2,200.00 ft

8.50 in 2,200.00 ft 14,639.00 ft

Casing Record

Type Size WGT From To

LT&C 9.63 in 40.00 lbs/ft 0.00 ft 2,186.00 ft

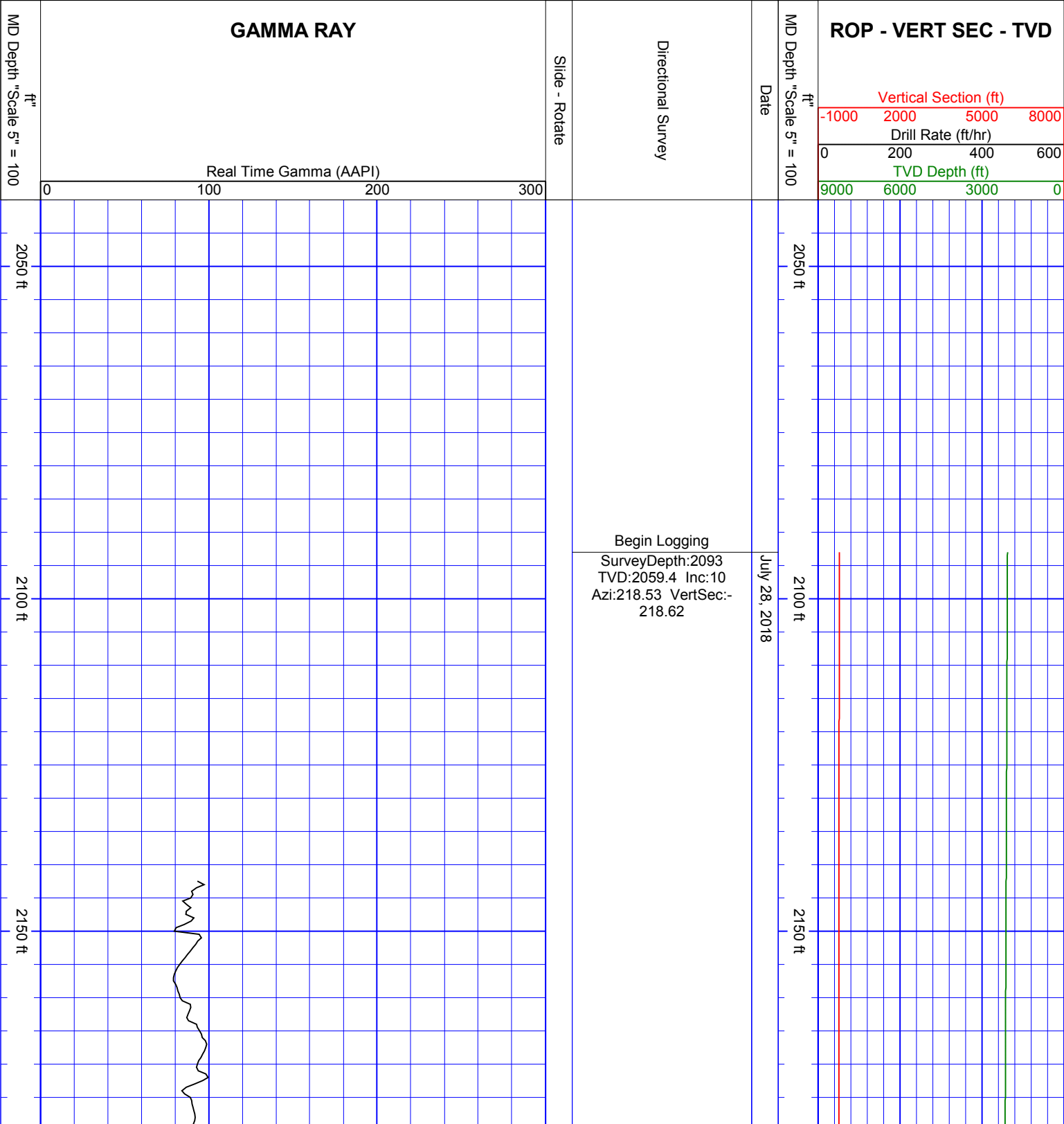
DW/C 5.50 in 20.00 lbs/ft 0.00 ft 14,634.00 ft

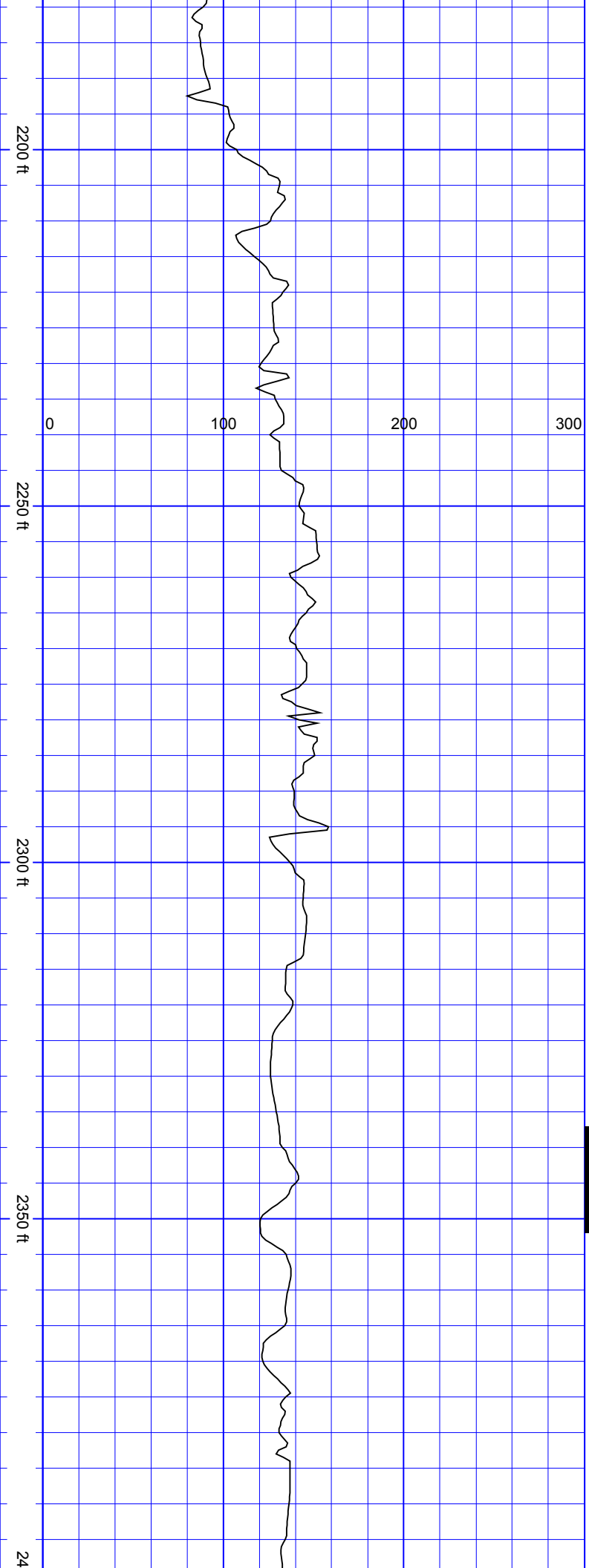
Run Data

Bit Run Number	1				
Start Date & Time	Jul/28/2018 23:30:00				
End Date & Time	Aug/01/2018 05:30:00				
Run Hours	79.00				
Depth In	2,270.00 ft				
Depth Out	14,639.00 ft				
Total Gamma Correction	5.76				
Gamma to Bit	58.71 ft				
Resistivity to Bit	N/A				
Mud Type	Oil Base				
Density	10.10 ppg				
Viscosity	49.00 sec/qt				
PH	N/A				
Fluid Loss	N/A				
K+ ppm	N/A				
CL- ppm	33,000.00 mg/L				
Max Mud Temp	260.00 °F				
Mud Report Depth	14,639.00 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.

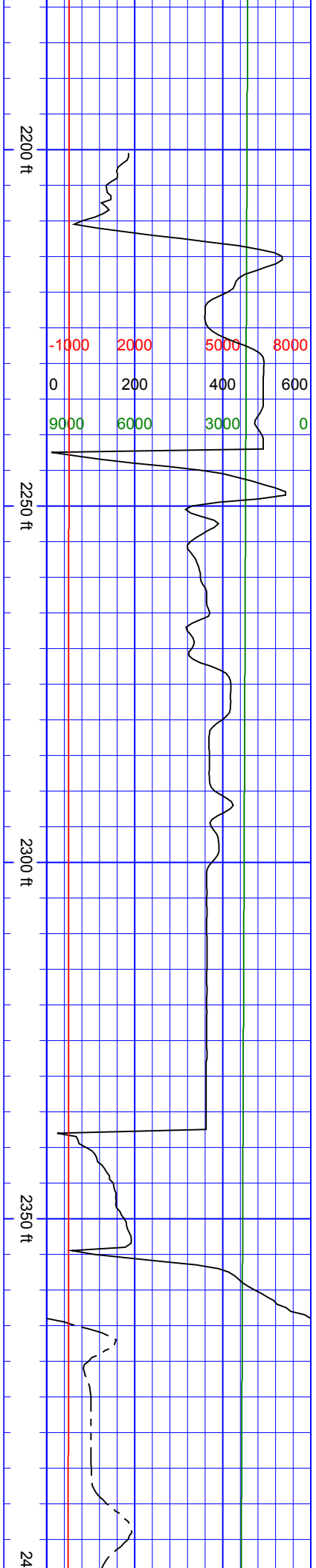


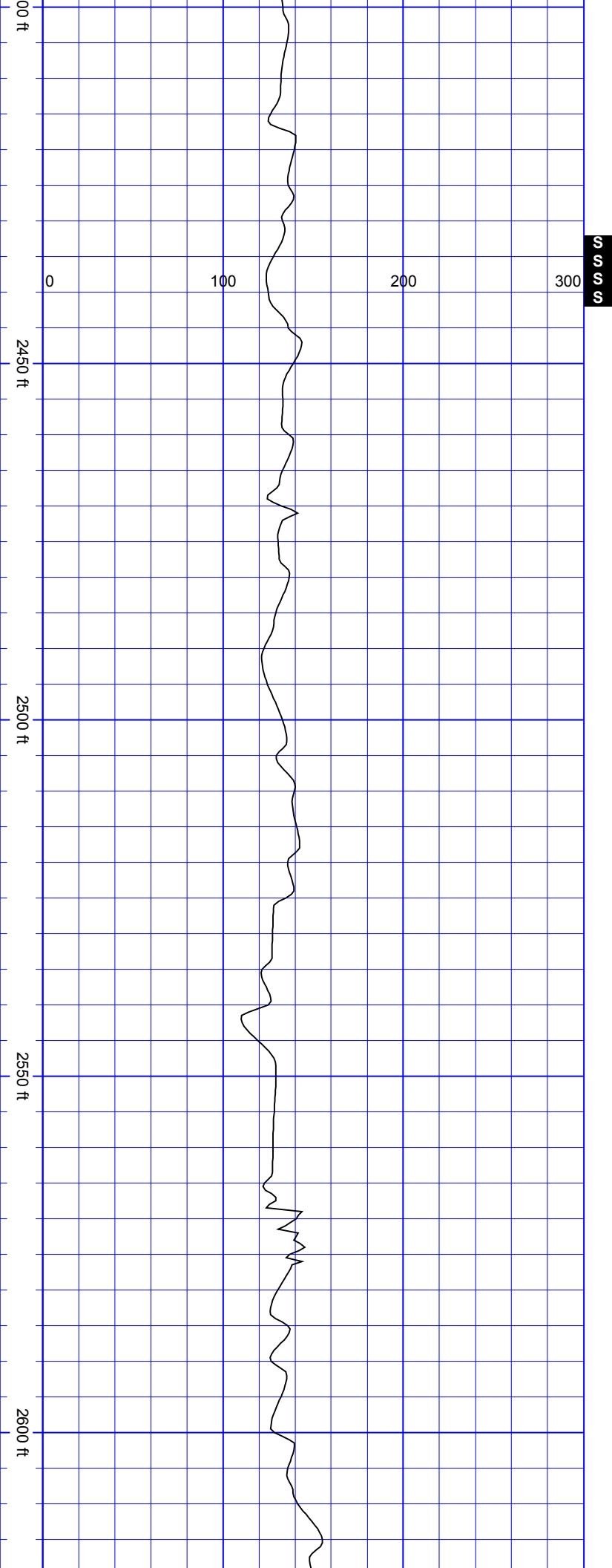


SurveyDepth:2273
TVD:2237.02 Inc:8.66
Azi:210.23 VertSec:-
240.19

SurveyDepth:2368
TVD:2330.64 Inc:10.94
Azi:219.2 VertSec:-
252.03

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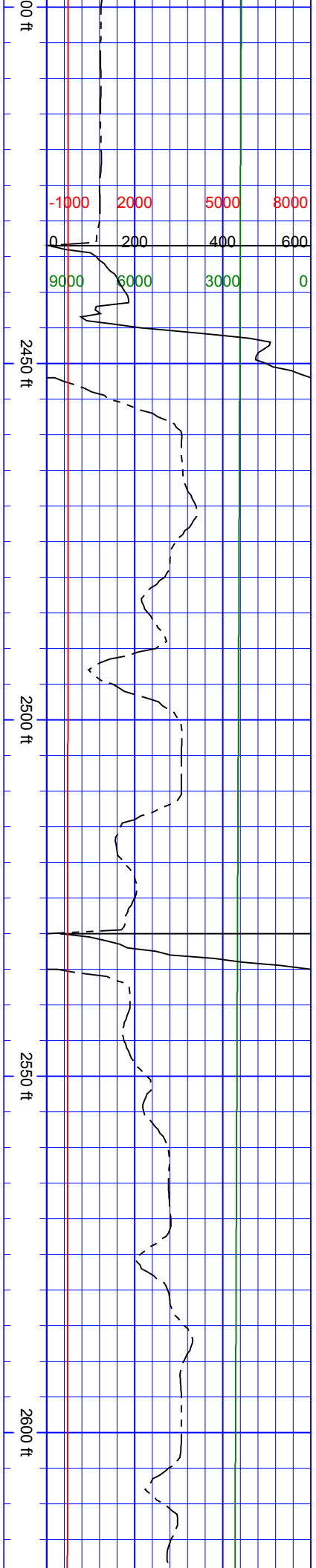


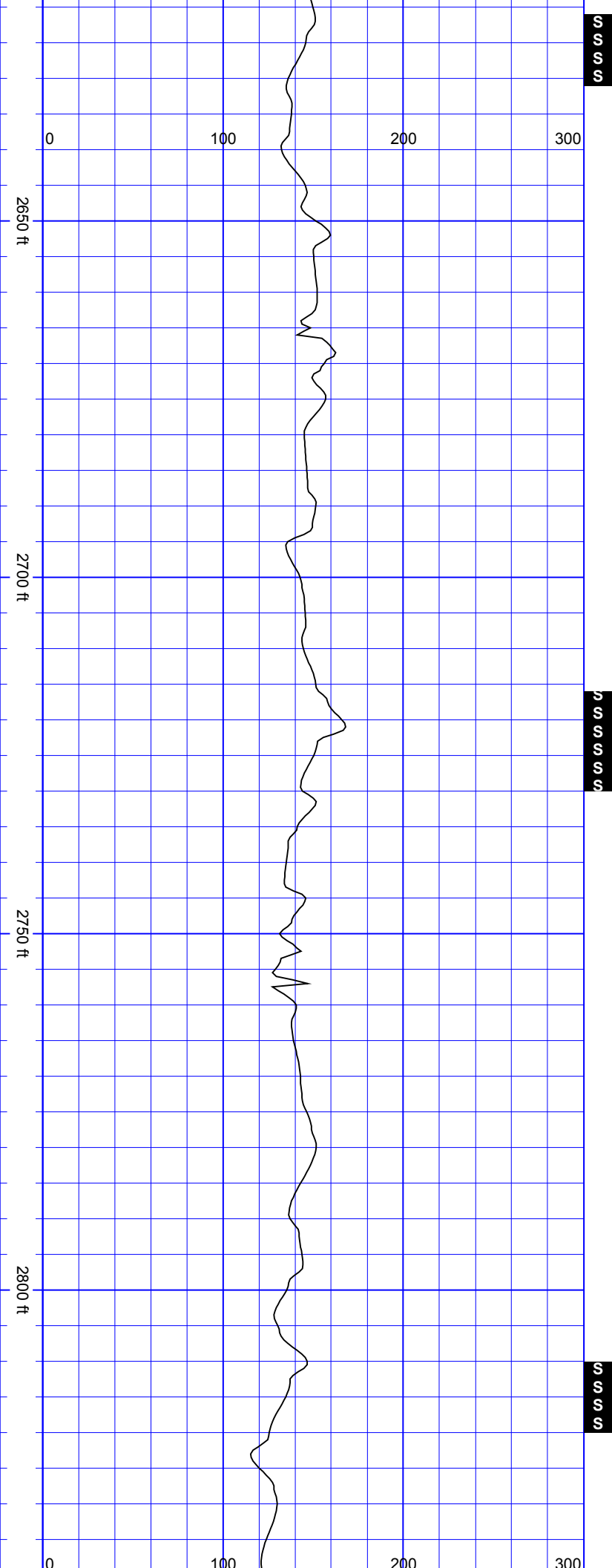


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SurveyDepth:2463
TVD:2423.69 Inc:12.26
Azi:222.27 VertSec:-
264.73

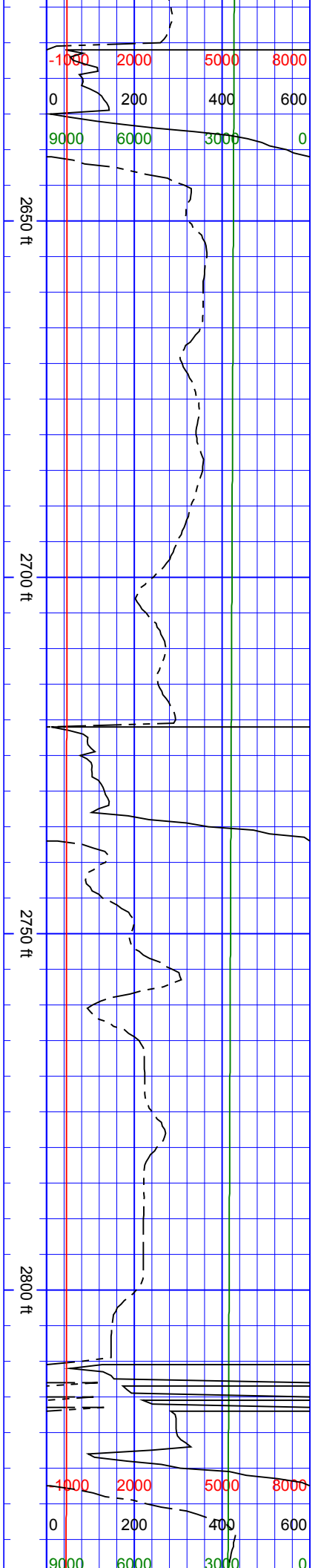
SurveyDepth:2557
TVD:2515.8 Inc:10.81
Azi:215.77 VertSec:-
277.6

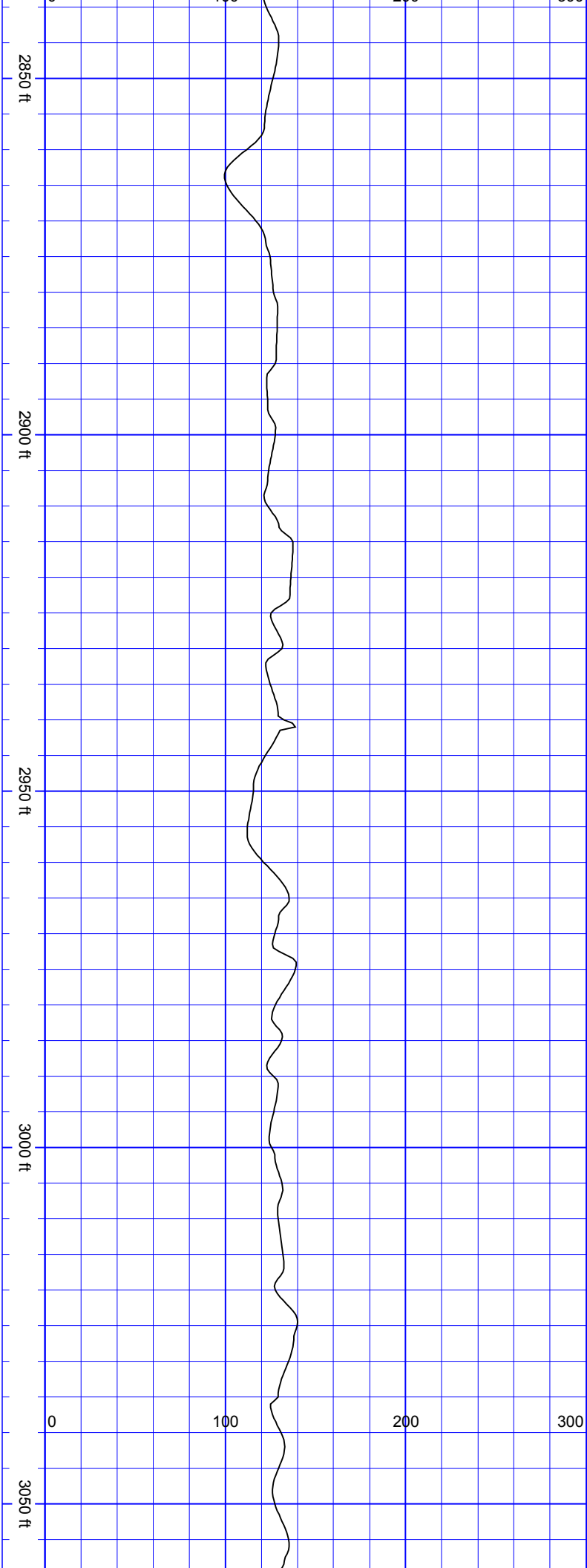




SurveyDepth:2652
TVD:2609.02 Inc:11.43
Azi:209.71 VertSec:-
291.59

SurveyDepth:2746
TVD:2700.94 Inc:12.7
Azi:217.26 VertSec:-
306.34

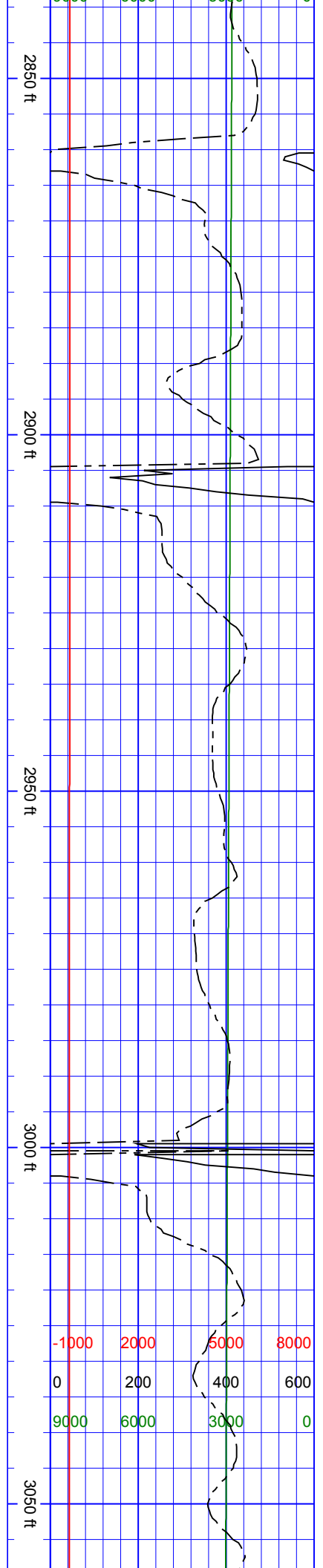




SurveyDepth:2840
TVD:2792.59 Inc:13.05
Azi:224.91 VertSec:-320.16

SurveyDepth:2935
TVD:2885.22 Inc:12.57
Azi:223.5 VertSec:-333.21

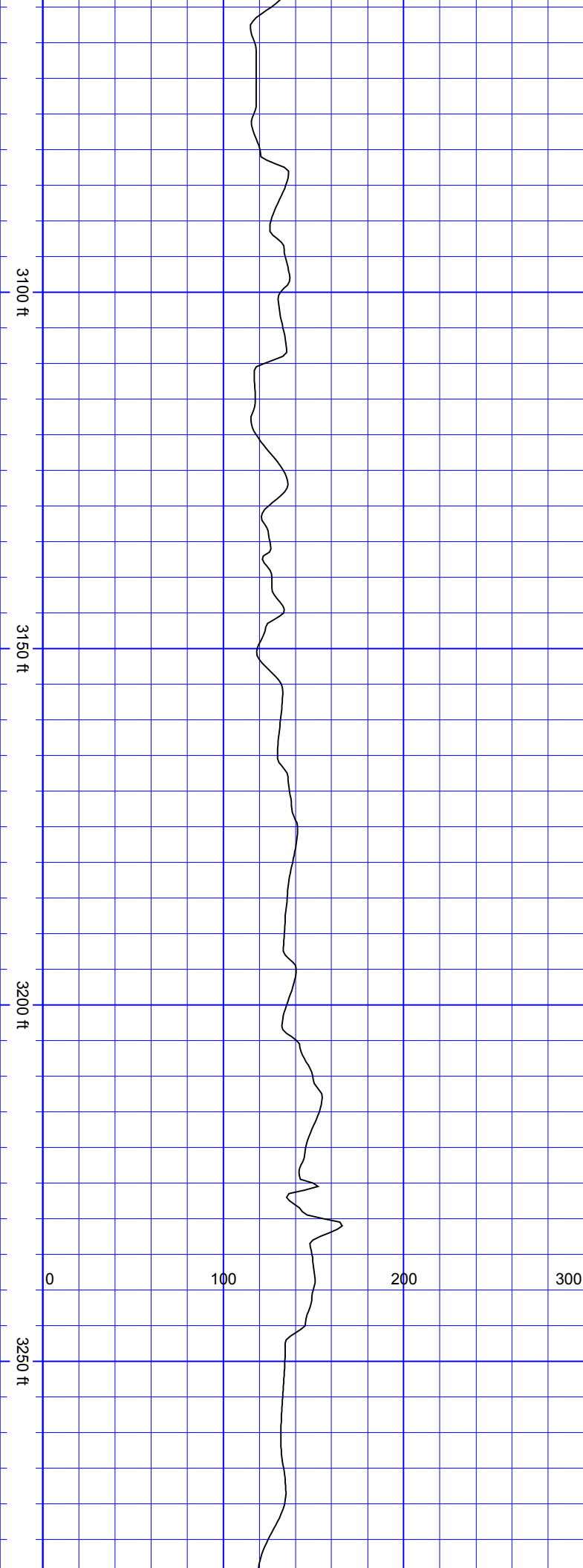
SurveyDepth:3030
TVD:2978.08 Inc:11.82
Azi:223.59 VertSec:-345.83



-1000 2000 5000 8000

0 200 400 600

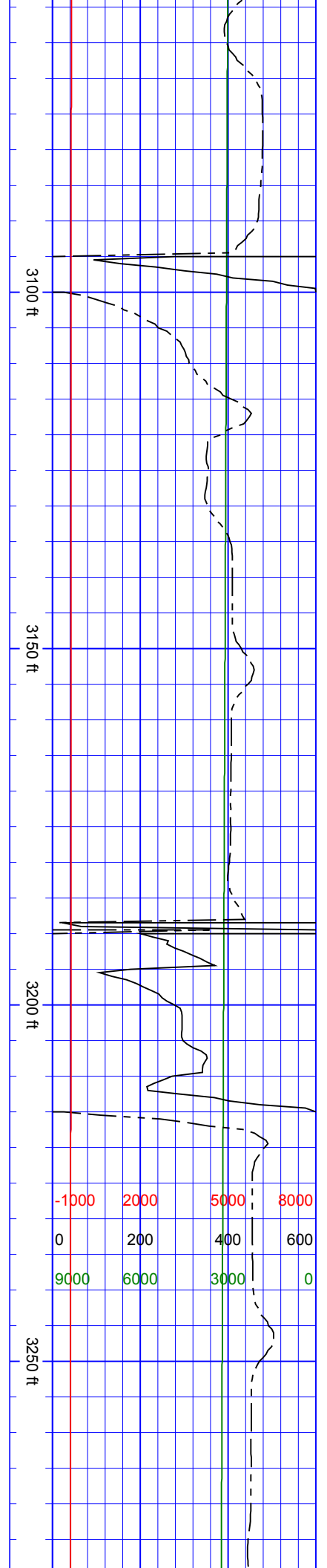
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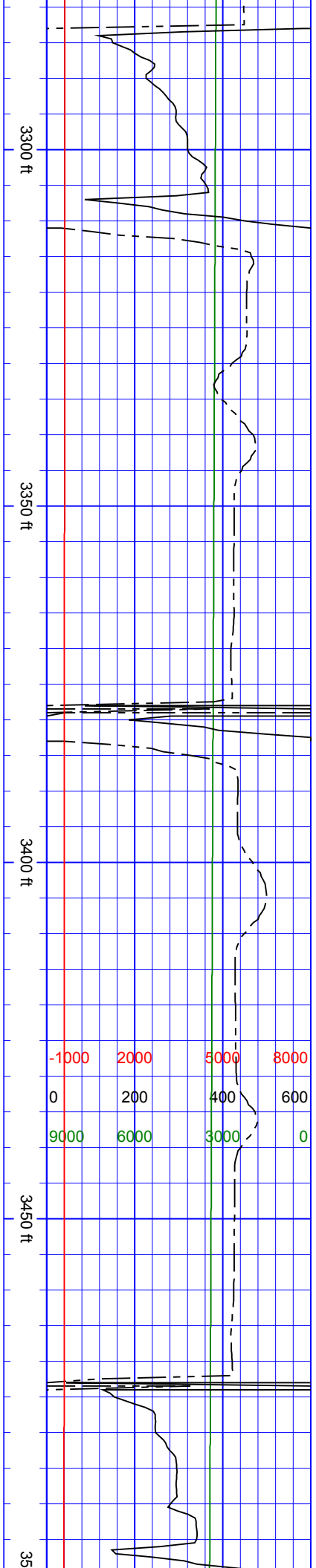
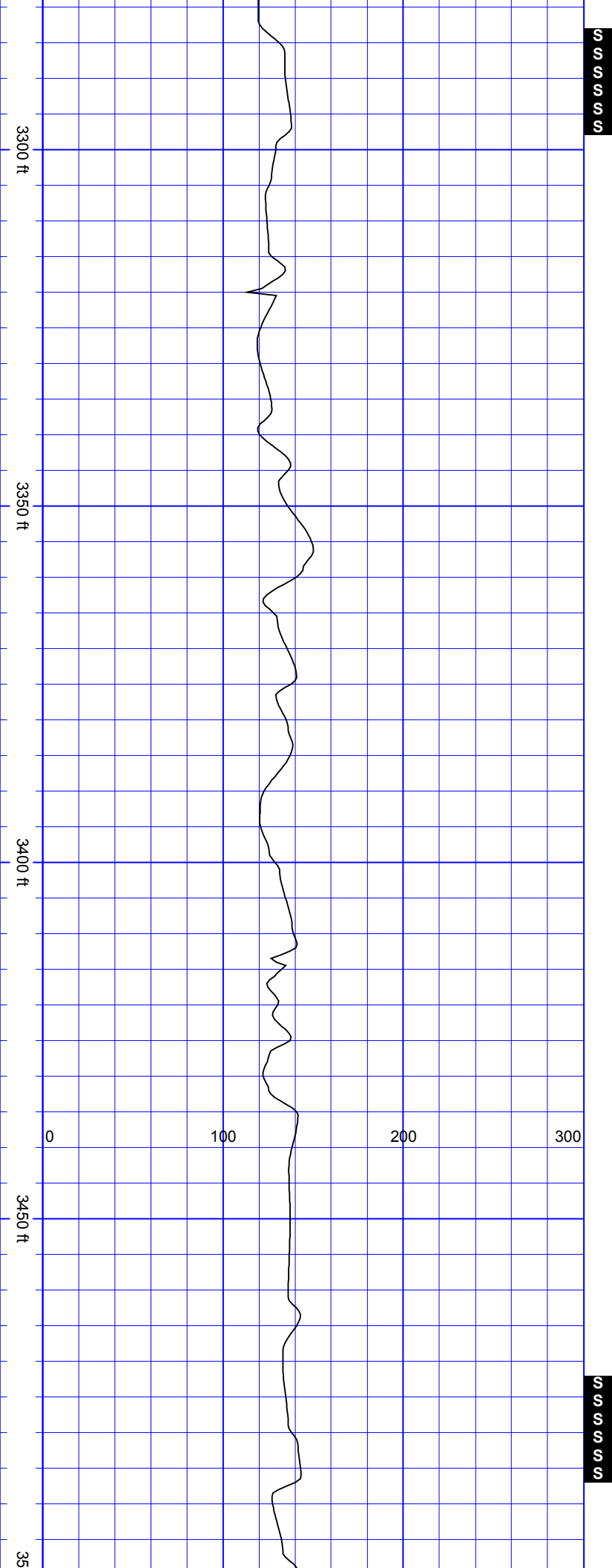


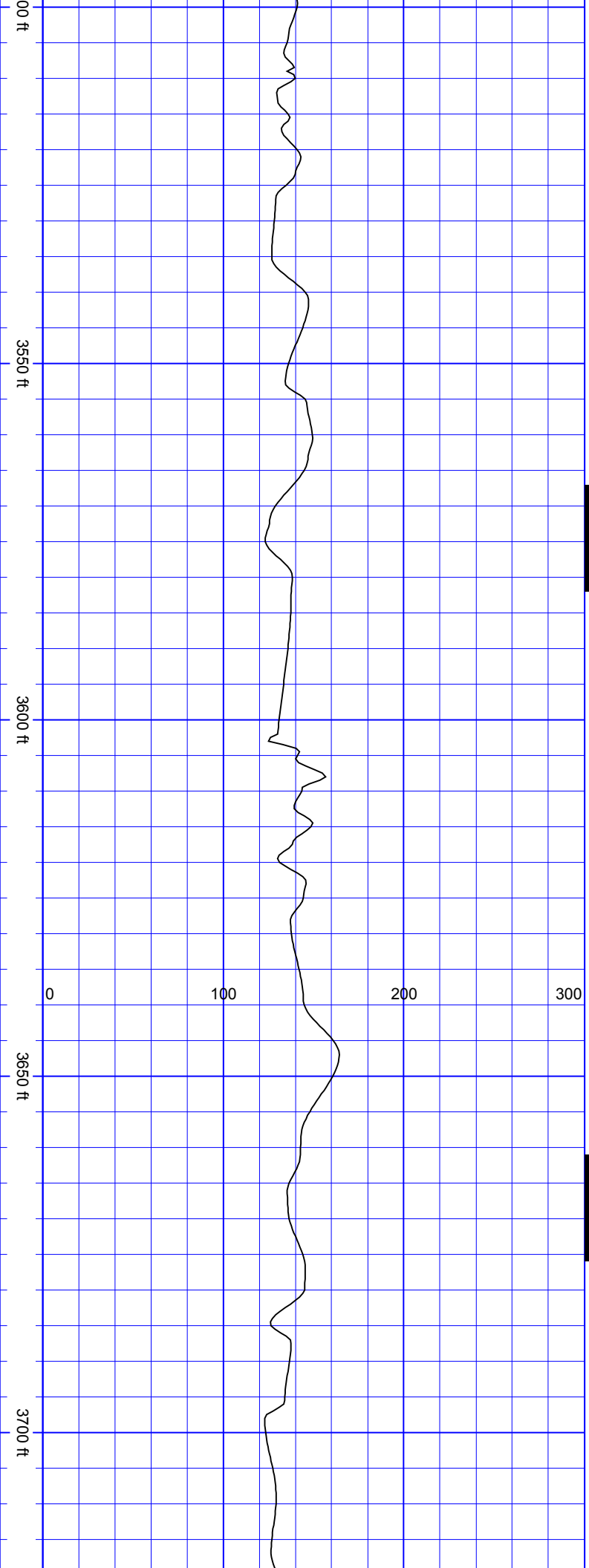
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SurveyDepth:3124
TVD:3070.23 Inc:10.94
Azi:223.24 VertSec:-
357.52

SurveyDepth:3219
TVD:3163.72 Inc:9.49
Azi:227.46 VertSec:-
367.73



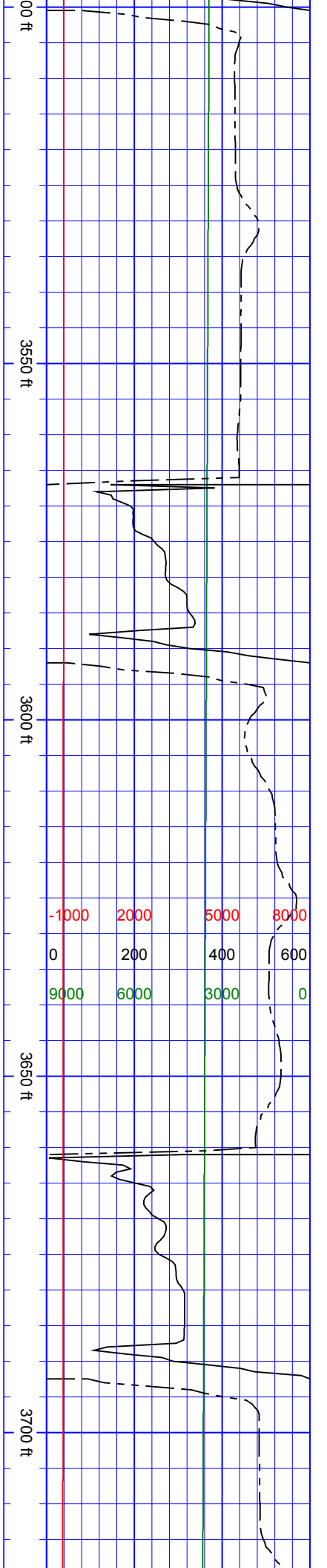


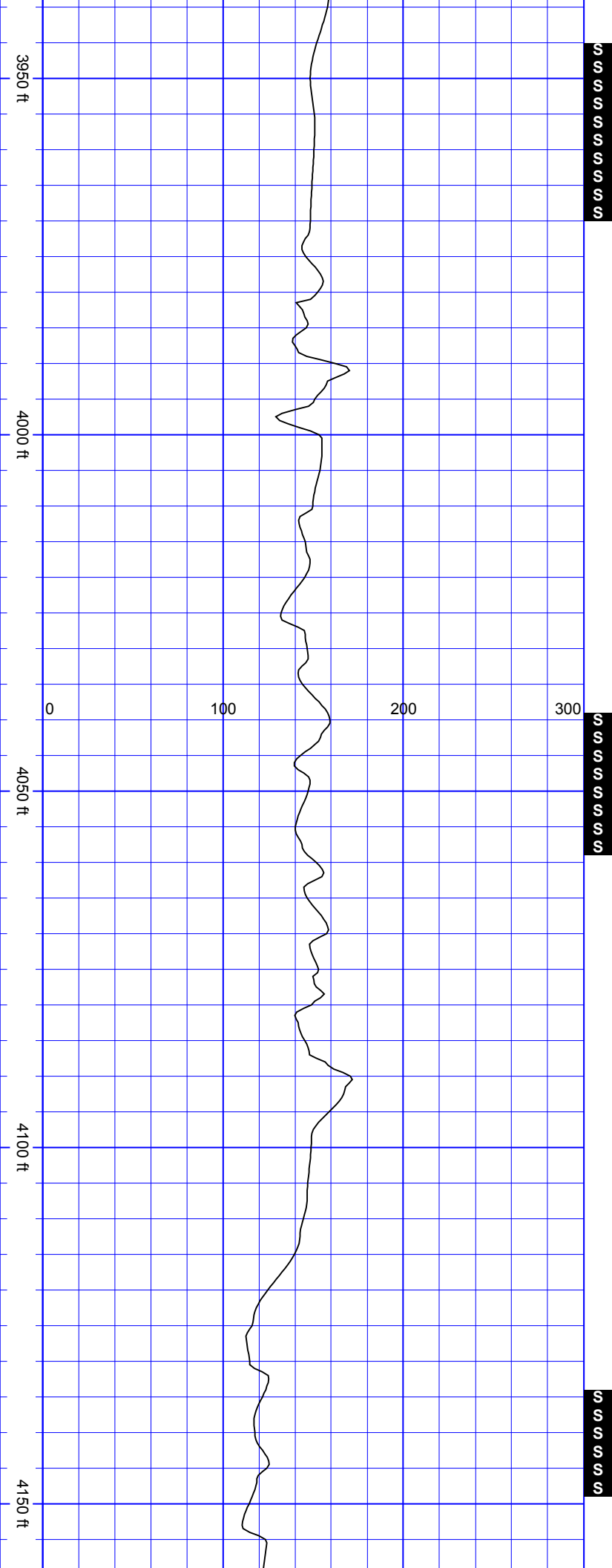


SurveyDepth:3503
TVD:3442.65 Inc:11.56
Azi:217.35 VertSec:-403.09

SurveyDepth:3597
TVD:3534.65 Inc:12.13
Azi:219.29 VertSec:-416.54

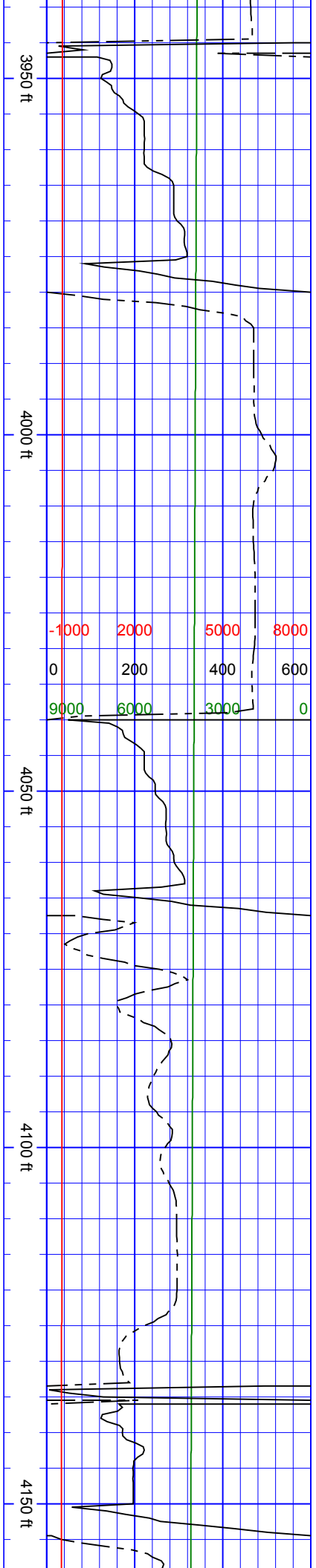
SurveyDepth:3691
TVD:3626.41 Inc:12.96
Azi:220.34 VertSec:-430.38

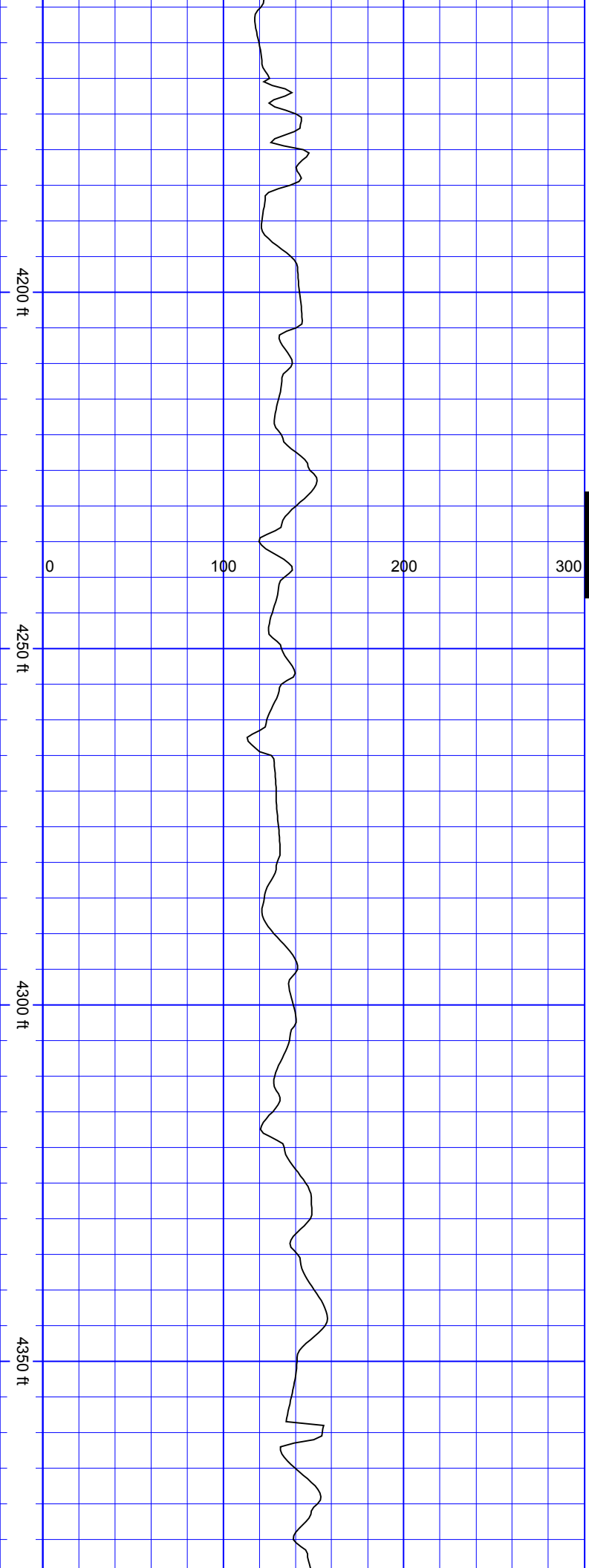




SurveyDepth:3975
TVD:3906.15 Inc:10.81
Azi:229.83 VertSec:-
459.06

SurveyDepth:4070
TVD:3999.21 Inc:12.52
Azi:213.05 VertSec:-
471.7

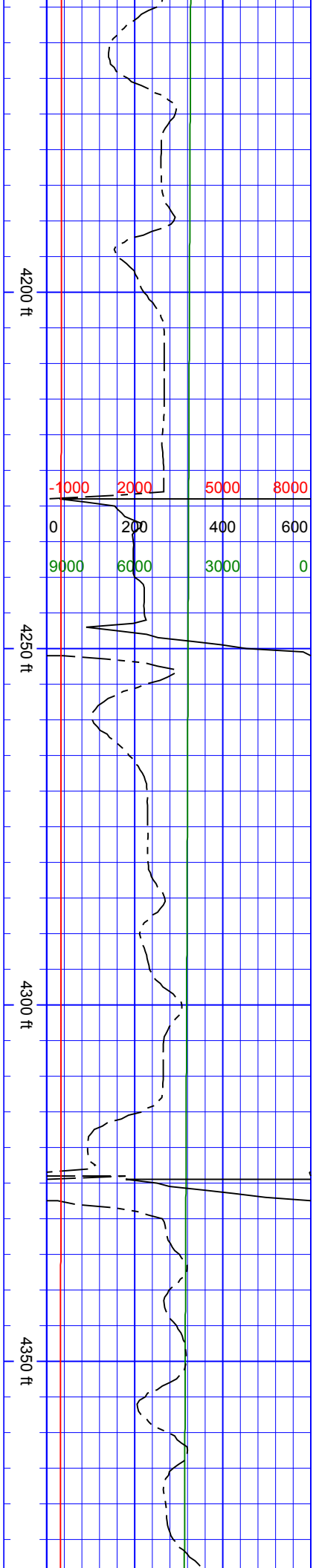




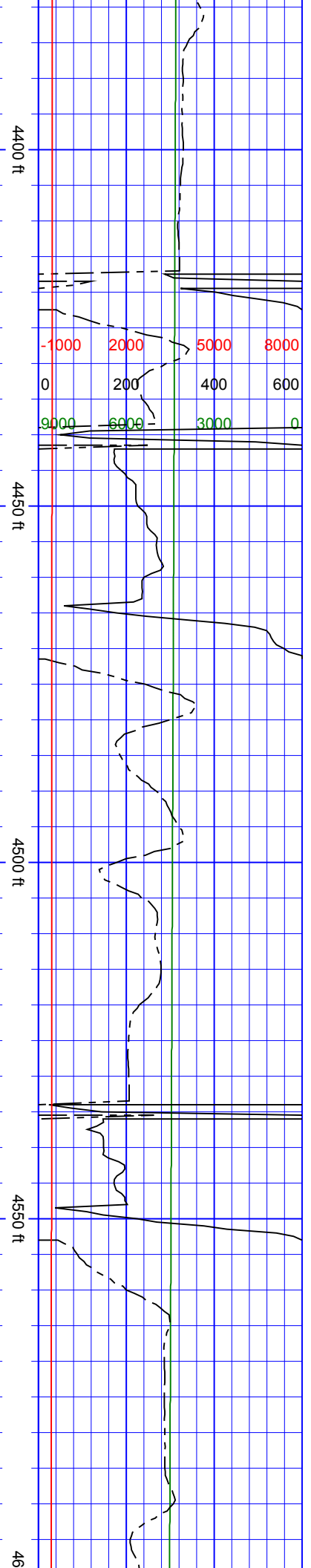
SurveyDepth:4164
TVD:4090.76 Inc:13.71
Azi:214.36 VertSec:-
487.74

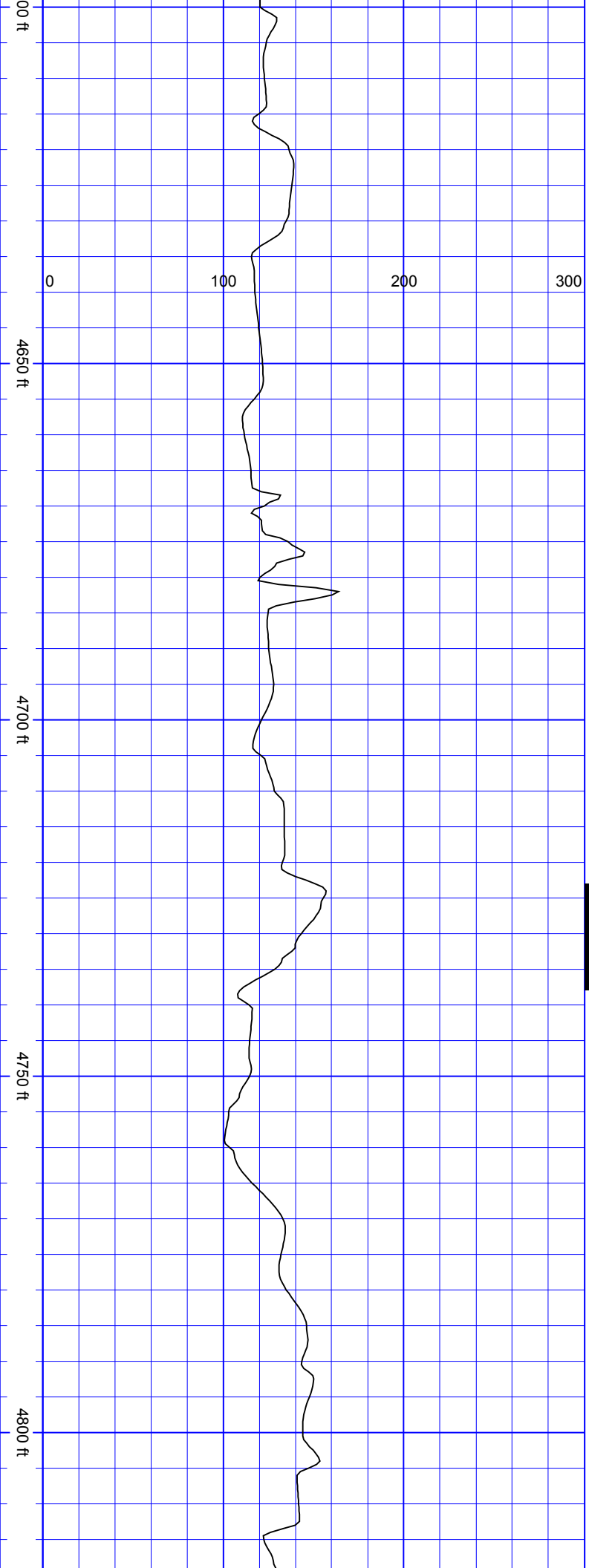
SurveyDepth:4259
TVD:4182.87 Inc:14.68
Azi:226.67 VertSec:-
503.18

SurveyDepth:4375
TVD:4295.78 Inc:11.82



SurveyDepth:4564
TVD:4480.16 Inc:13.27
Azi:217.35 VertSec:-
548.01

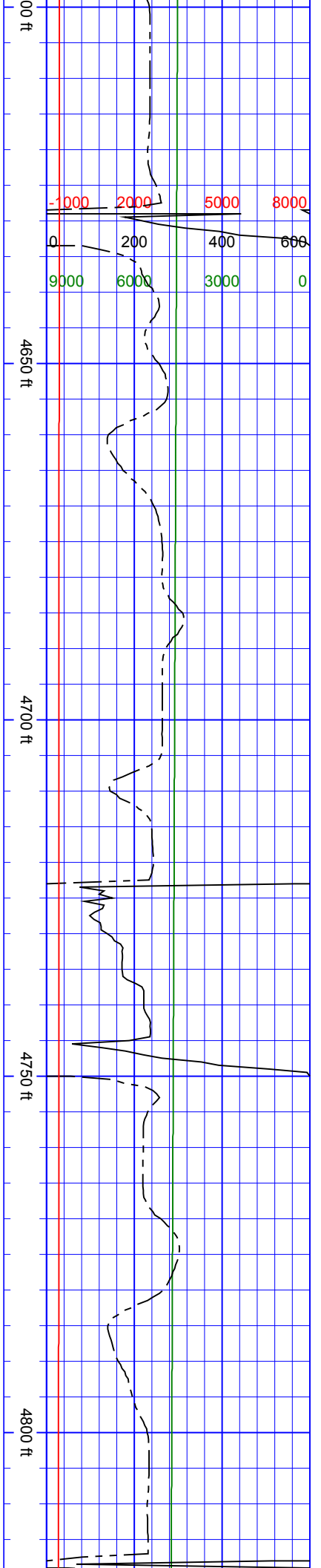


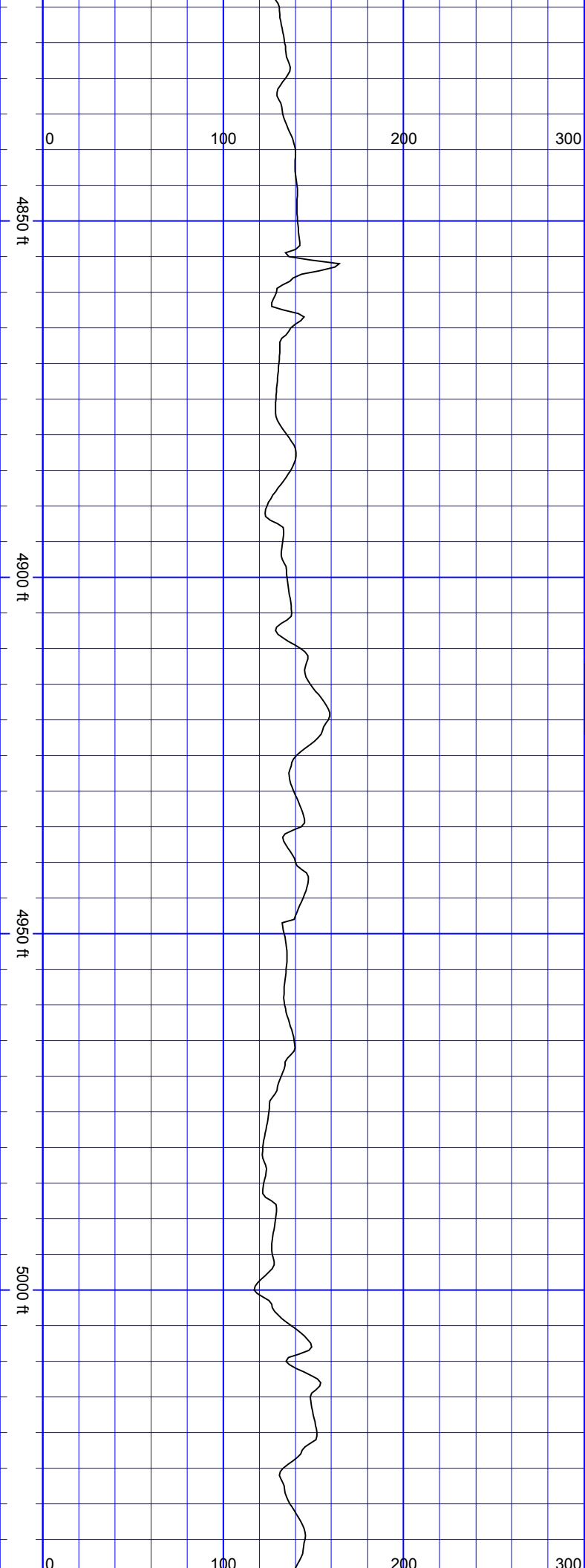


SurveyDepth:4659
TVD:4573.09 Inc:10.64
Azi:214.45 VertSec:-
562.27

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SurveyDepth:4753
TVD:4665.3 Inc:11.87
Azi:227.9 VertSec:-
574.22



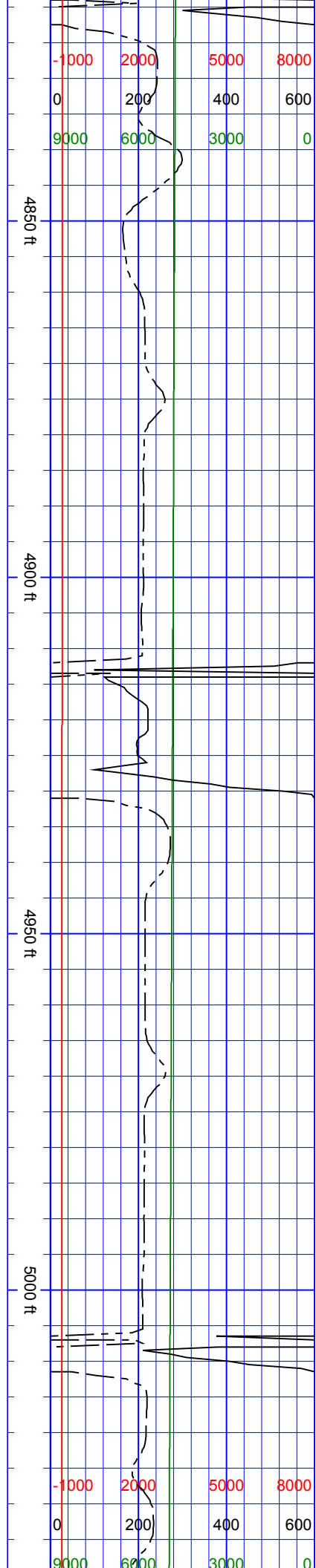


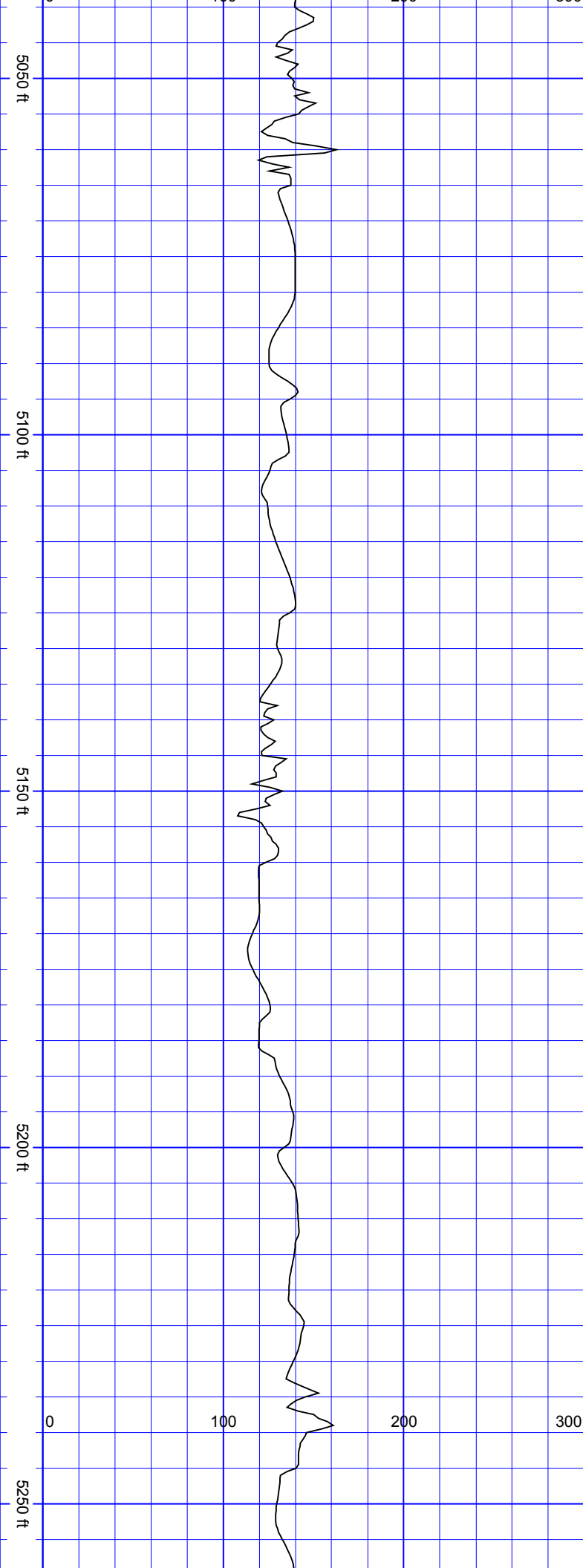
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SurveyDepth:4848
TVD:4758.35 Inc:11.34
Azi:224.21 VertSec:-
585.56

SurveyDepth:4942
TVD:4850.54 Inc:11.21
Azi:221.83 VertSec:-
597.24

SurveyDepth:5037





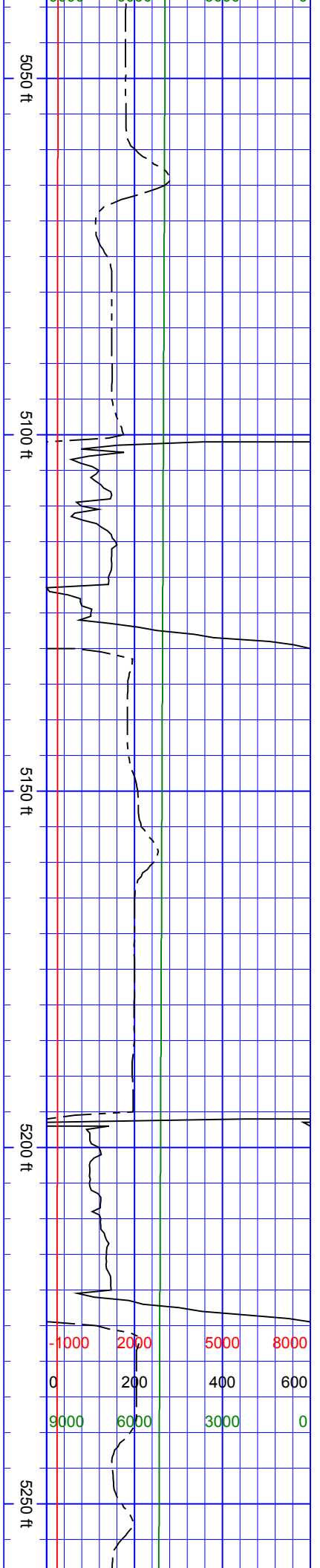
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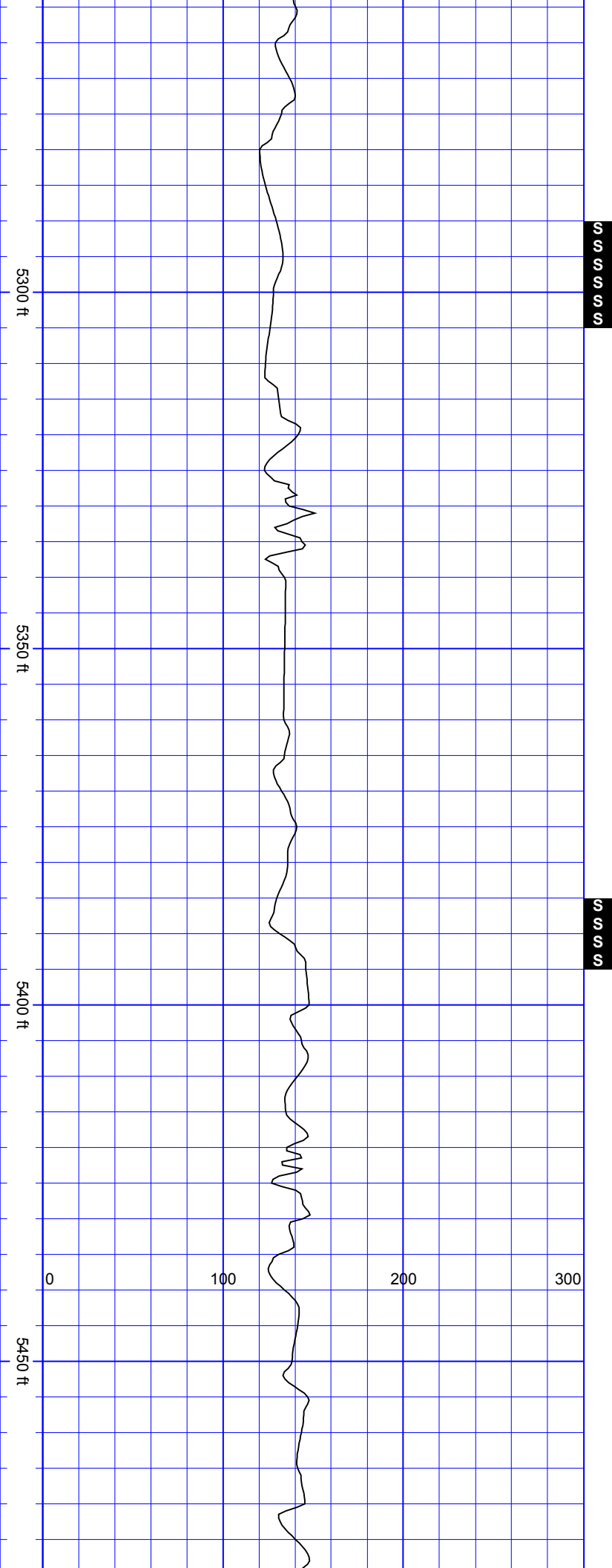
SSSSSSSS

TVD:4944 Inc:9.4
Azi:222.19 VertSec:-
608.28

SurveyDepth:5132
TVD:5037.69 Inc:9.67
Azi:224.74 VertSec:-
618.19

SurveyDepth:5226
TVD:5130.02 Inc:11.95
Azi:220.52 VertSec:-
629.53



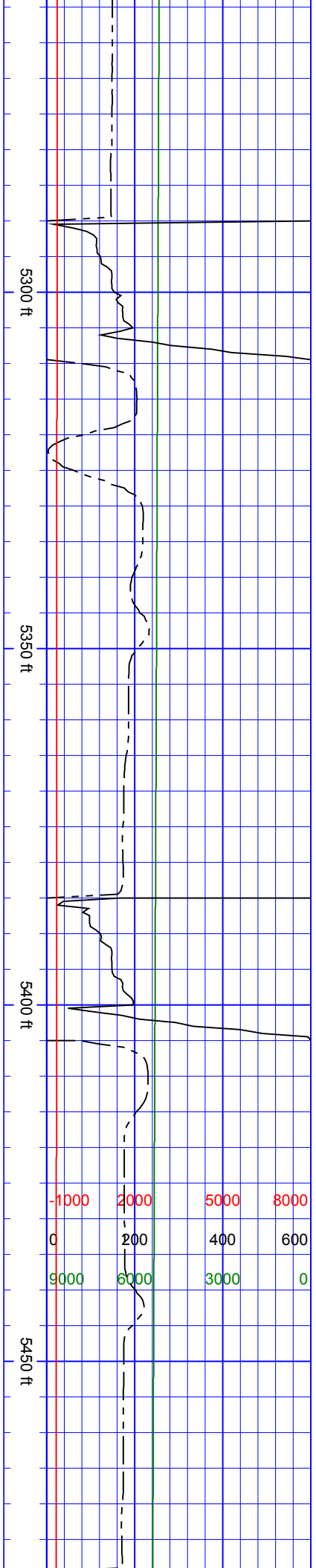


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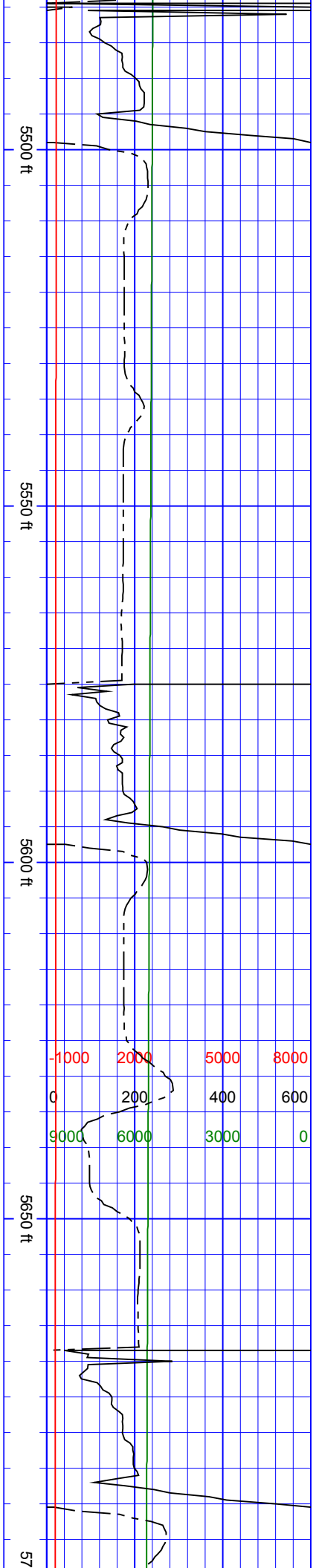
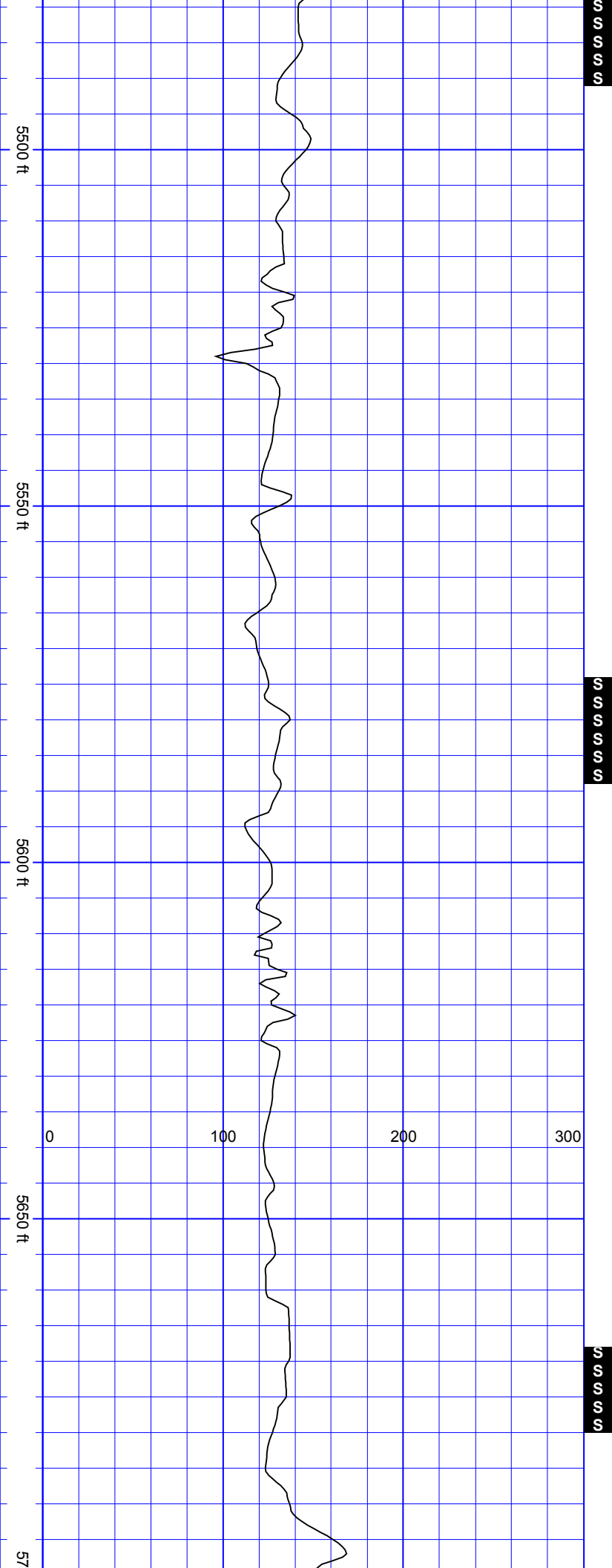
SurveyDepth:5321
TVD:5222.85 Inc:12.61
Azi:215.16 VertSec:-
643.74

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SurveyDepth:5415
TVD:5314.69 Inc:12
Azi:214.54 VertSec:-
658.55



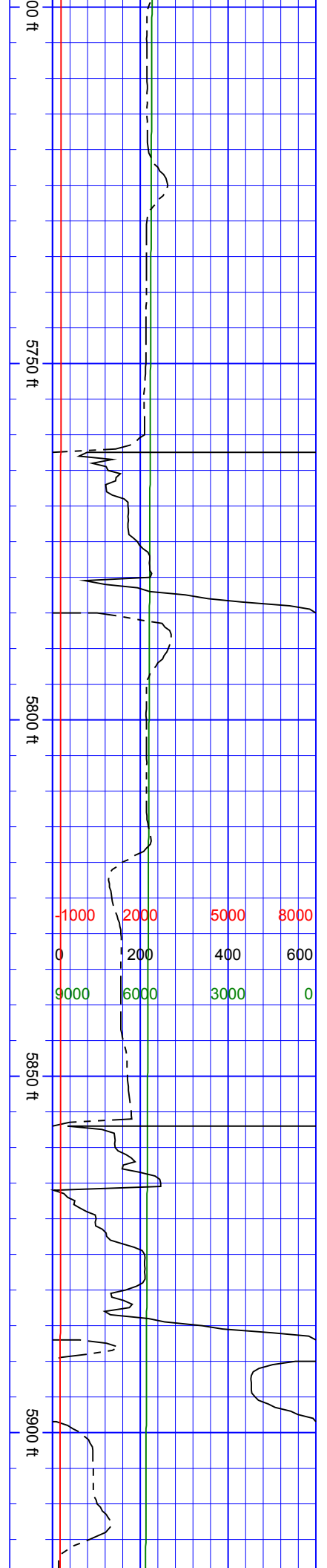
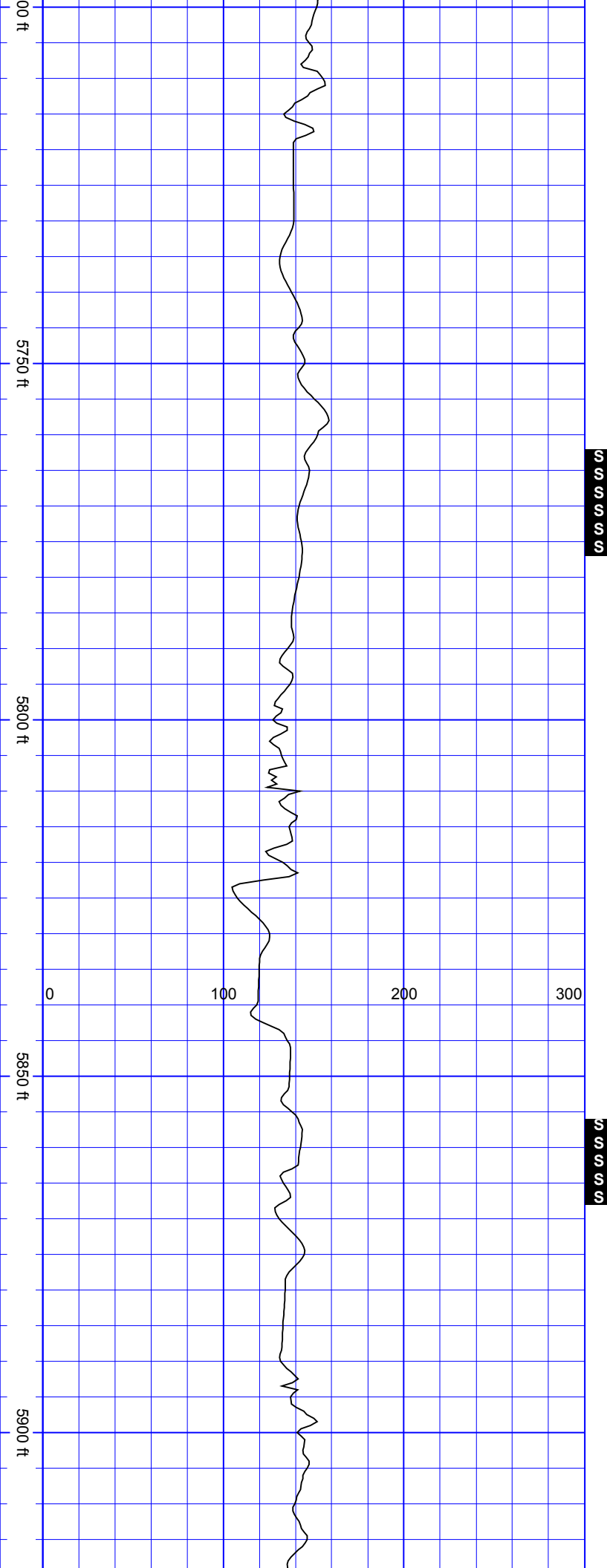
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0	200	400	600
9000	6000	3000	0

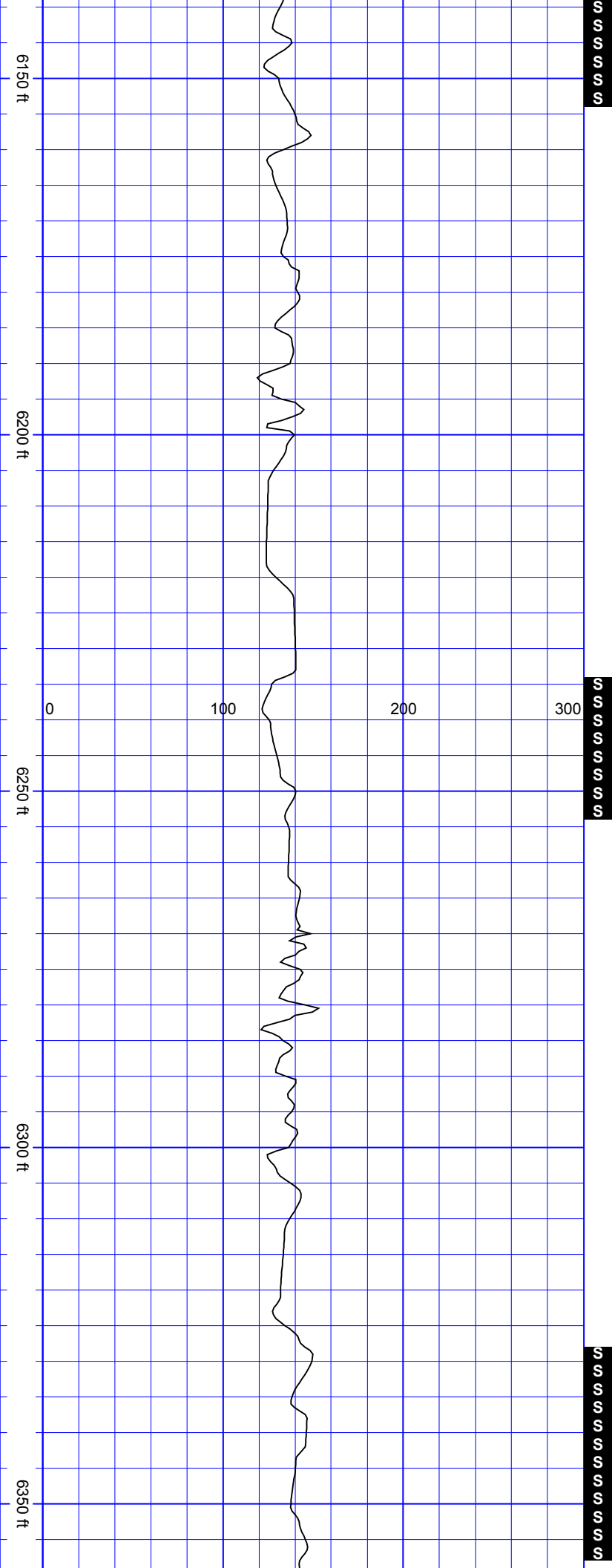


SurveyDepth:5698
TVD:5591.6 Inc:11.73
Azi:222.71 VertSec:-
699.43

SurveyDepth:5792
TVD:5683.66 Inc:11.65
Azi:219.73 VertSec:-
711.99

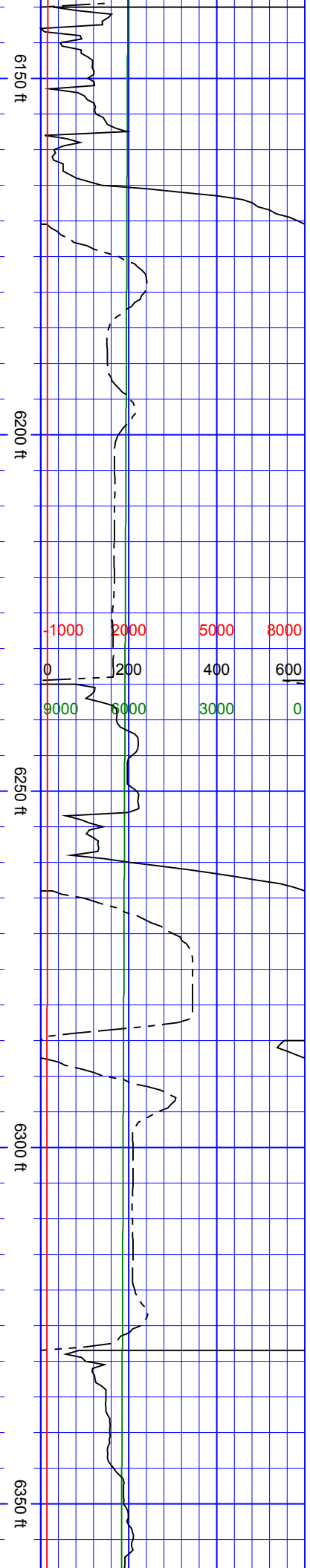
SurveyDepth:5886
TVD:5776.08 Inc:9.36
Azi:212.78 VertSec:-
724.27

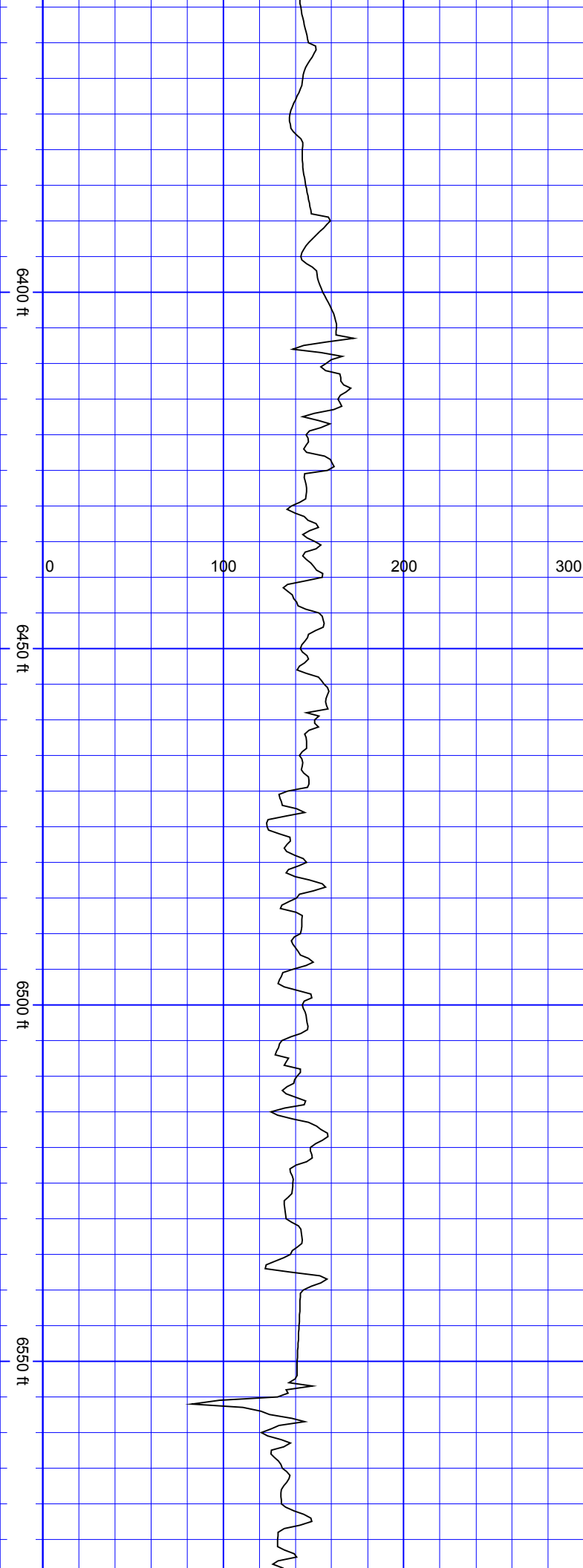




SurveyDepth:6170
TVD:6055.02 Inc:9.58
Azi:223.33 VertSec:-
760.1

SurveyDepth:6264
TVD:6147.7 Inc:9.67
Azi:214.54 VertSec:-
770.9



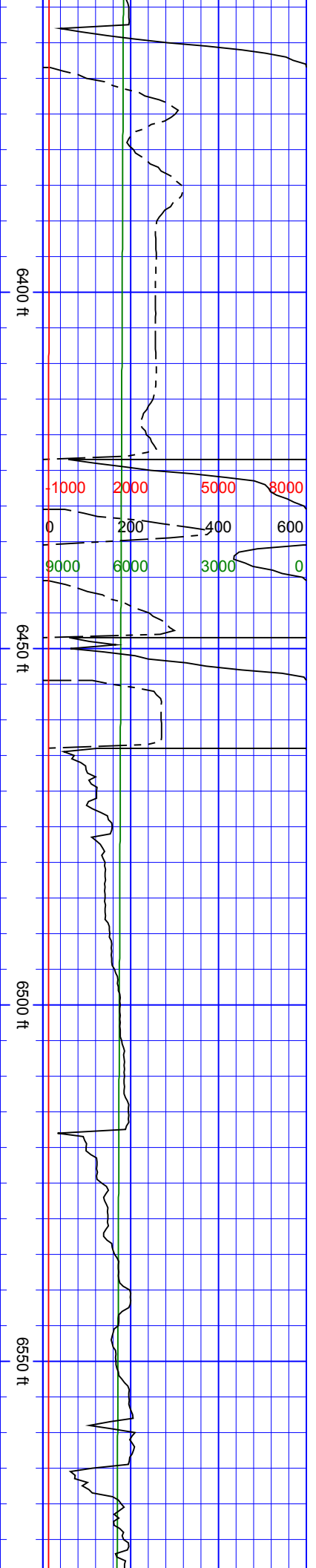


SurveyDepth:6359
TVD:6240.93 Inc:12.48
Azi:224.65 VertSec:-
783.13

SurveyDepth:6453
TVD:6333.09 Inc:10.2
Azi:223.59 VertSec:-
794.6

SurveyDepth:6500
TVD:6379.28 Inc:11.51
Azi:254.44 VertSec:-
797.87

SurveyDepth:6547
TVD:6425.02 Inc:15.43
Azi:280.72 VertSec:-
796.57



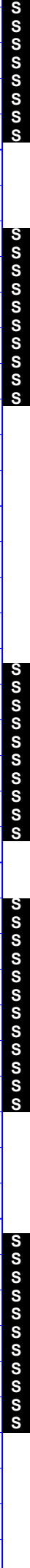
6600 ft

6650 ft

6700 ft

6750 ft

6800 ft



SurveyDepth:6594
TVD:6470.07 Inc:17.93
Azi:297.42 VertSec:-
790.48

SurveyDepth:6641
TVD:6514.71 Inc:18.63
Azi:306.74 VertSec:-
781.1

SurveyDepth:6688
TVD:6559.1 Inc:19.73
Azi:312.98 VertSec:-
769.74

SurveyDepth:6736
TVD:6603.94 Inc:22.19
Azi:323.7 VertSec:-
755.54

SurveyDepth:6783
TVD:6647.21 Inc:23.86
Azi:333.37 VertSec:-
738.78

6600 ft

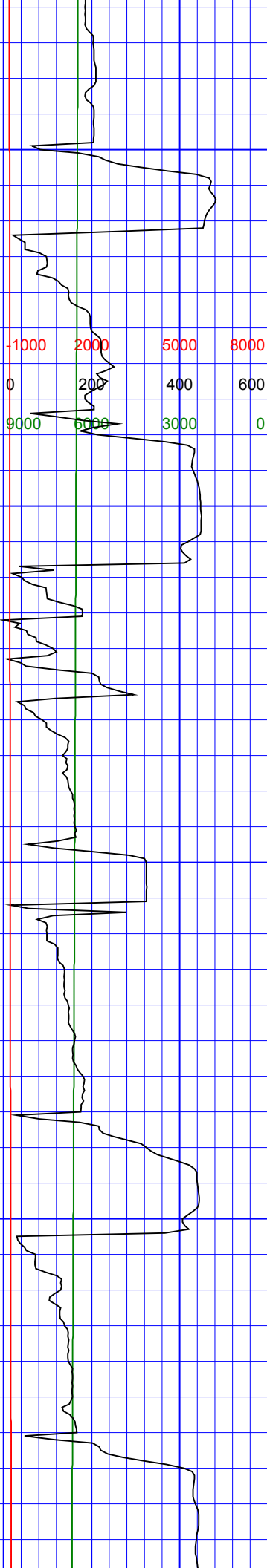
6650 ft

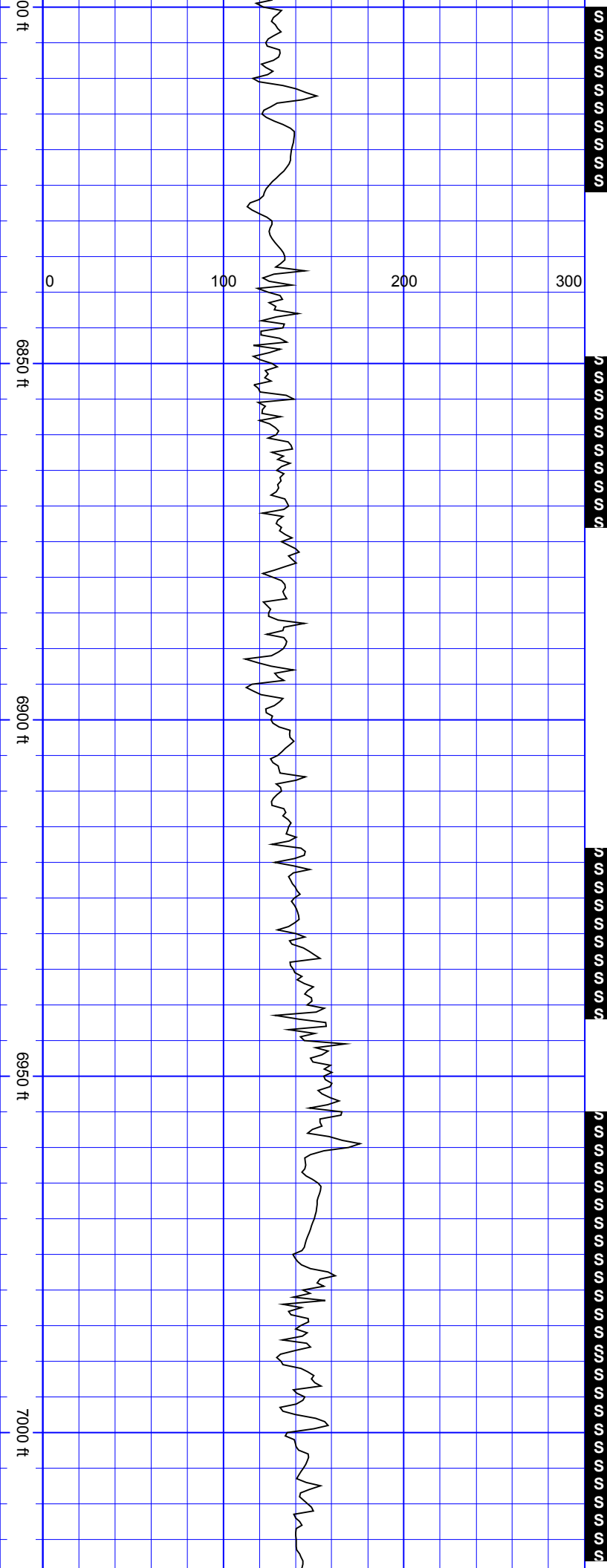
6700 ft

6750 ft

6800 ft

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





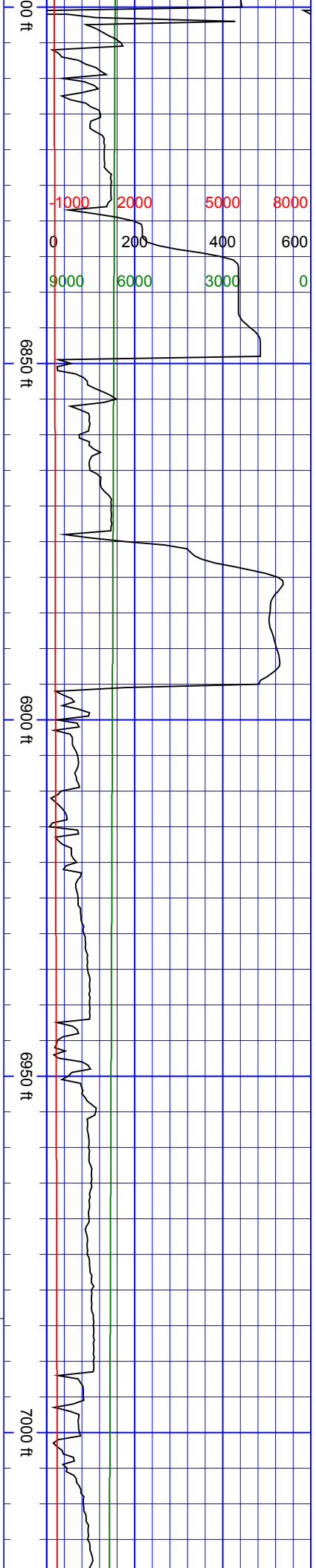
SurveyDepth:6831
TVD:6691.03 Inc:24.35
Azi:338.47 VertSec:-720

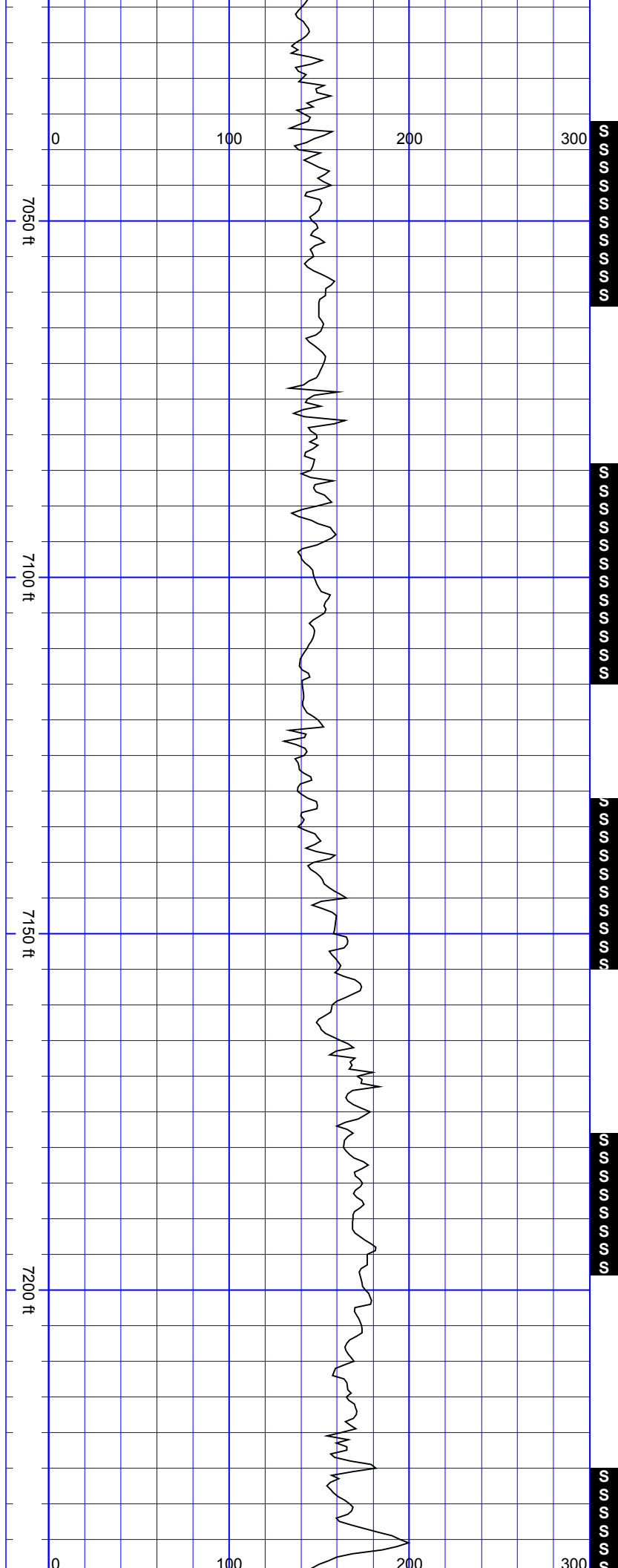
SurveyDepth:6878
TVD:6733.46 Inc:26.59
Azi:341.63 VertSec:-700.27

SurveyDepth:6925
TVD:6774.97 Inc:29.36
Azi:346.99 VertSec:-678.46

SurveyDepth:6972
TVD:6815.2 Inc:32.92
Azi:352.26 VertSec:-654.21

July 30, 2018





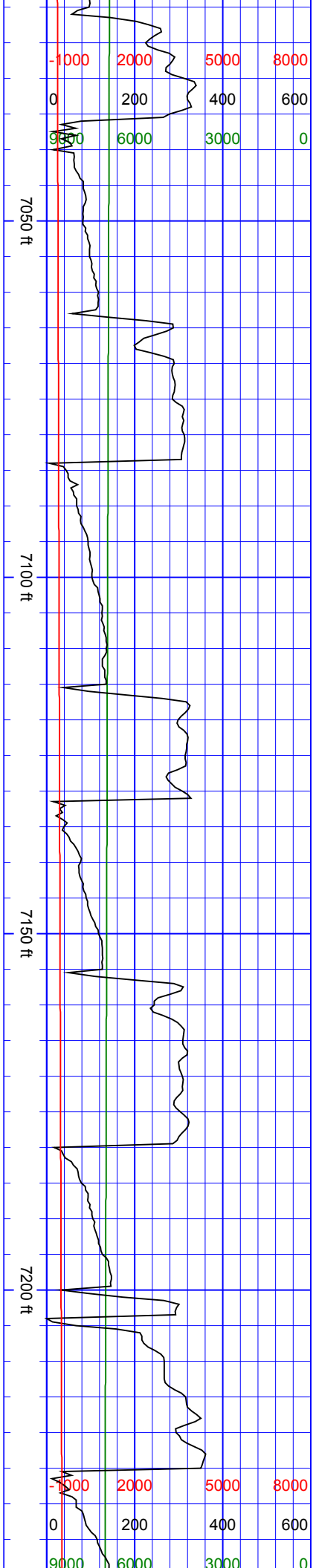
SurveyDepth:7020
TVD:6854.41 Inc:37.49
Azi:353.93 VertSec:-
626.55

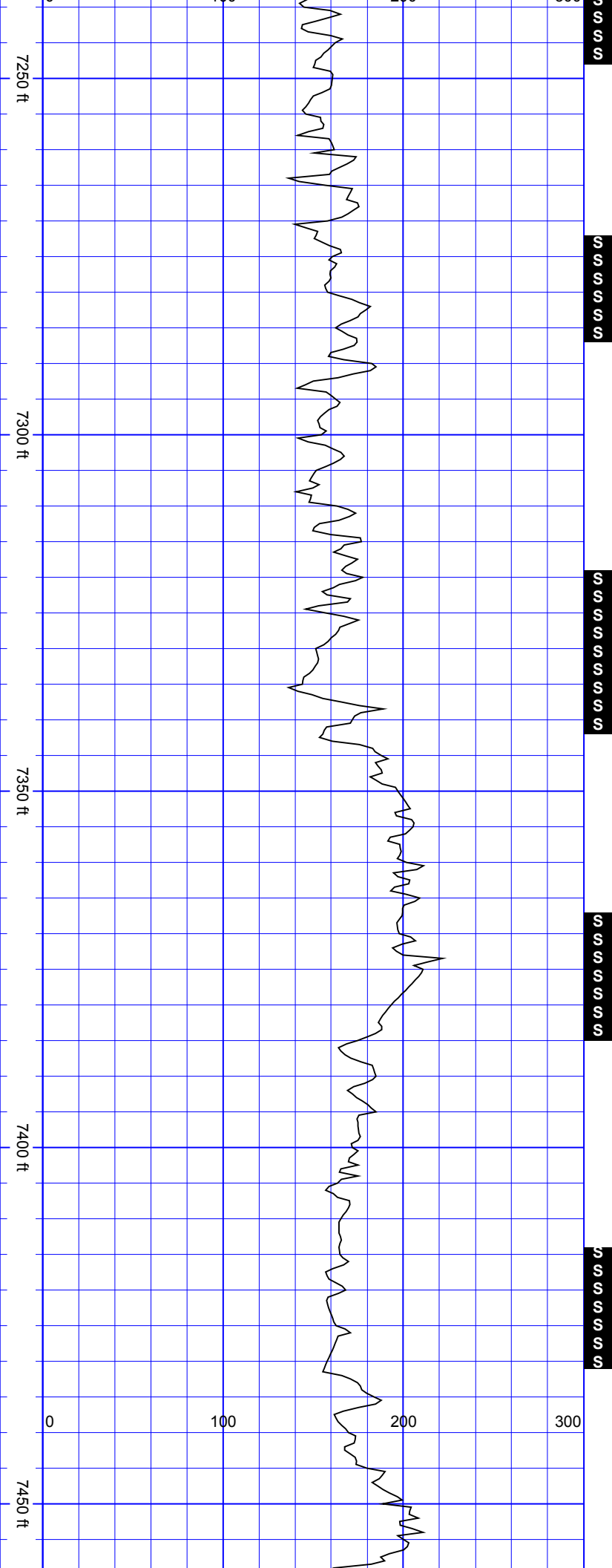
SurveyDepth:7067
TVD:6890.66 Inc:41.53
Azi:352.53 VertSec:-
596.66

SurveyDepth:7114
TVD:6924.58 Inc:46.06
Azi:352.7 VertSec:-
564.14

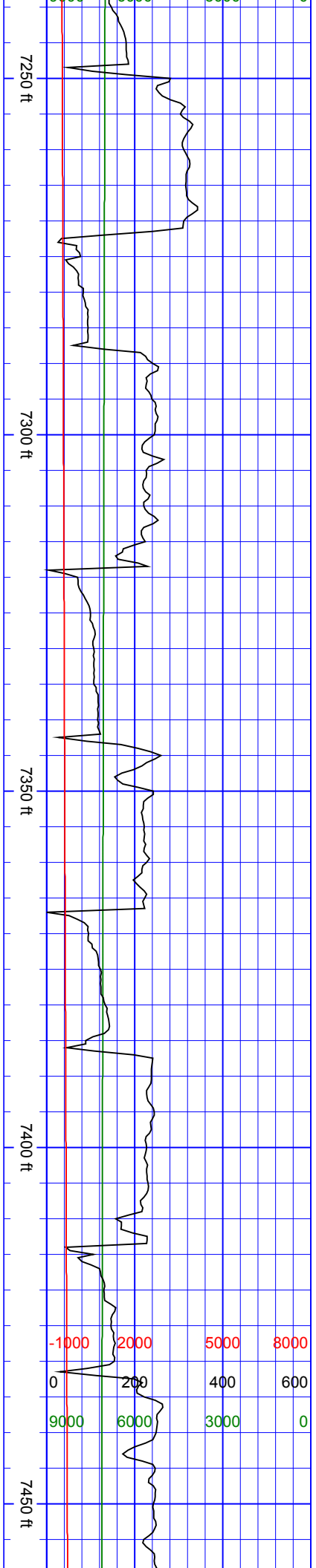
SurveyDepth:7161
TVD:6956.23 Inc:49.26
Azi:354.11 VertSec:-
529.41

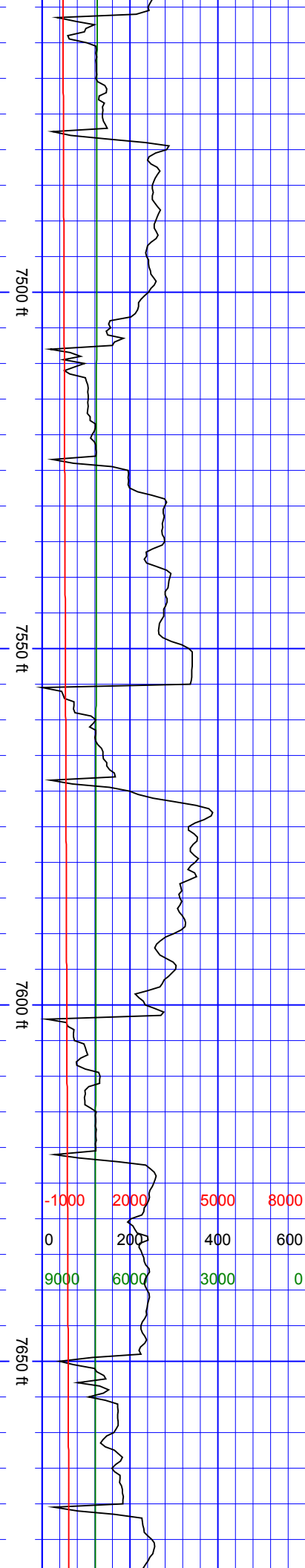
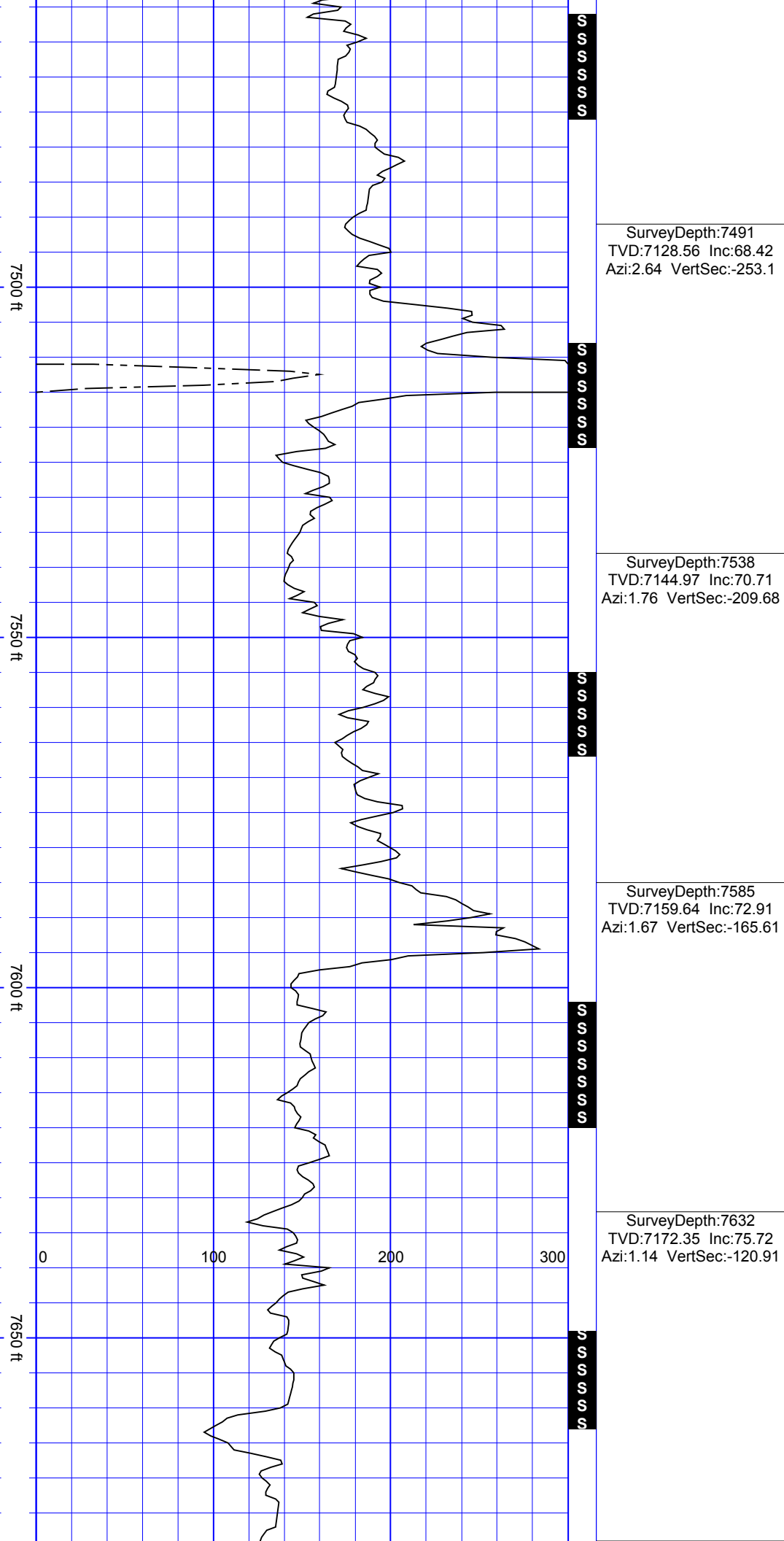
SurveyDepth:7208
TVD:6986.05 Inc:51.99
Azi:356.31 VertSec:-
493.13

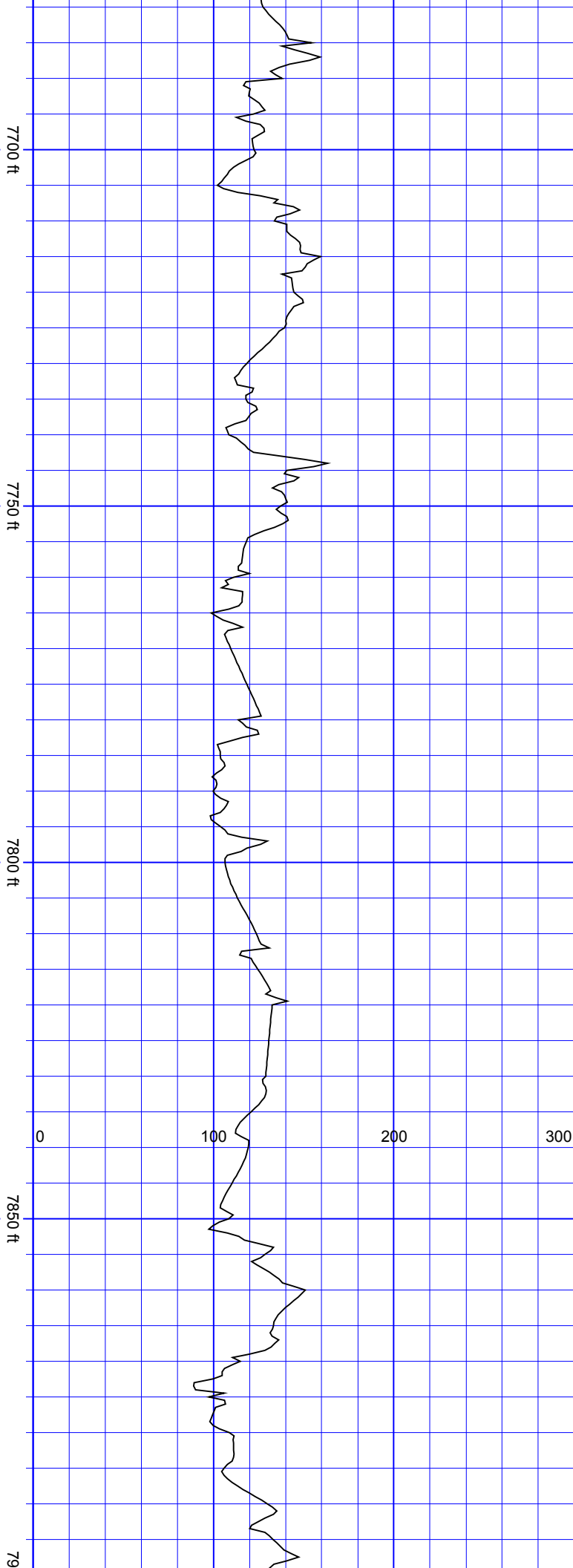




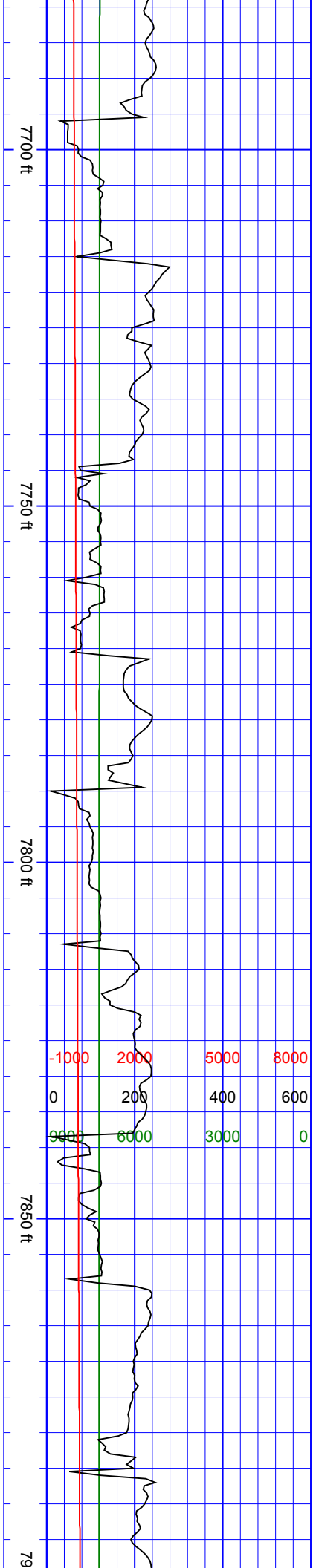
SurveyDepth:7255 TVD:7014.42 Inc:53.75 Azi:359.56 VertSec:-455.83
SurveyDepth:7303 TVD:7042.14 Inc:55.72 Azi:1.84 VertSec:-417.05
SurveyDepth:7350 TVD:7067.22 Inc:59.77 Azi:2.46 VertSec:-377.87
SurveyDepth:7397 TVD:7089.76 Inc:62.89 Azi:2.81 VertSec:-337.28
SurveyDepth:7444 TVD:7110.19 Inc:65.57 Azi:2.99 VertSec:-295.66

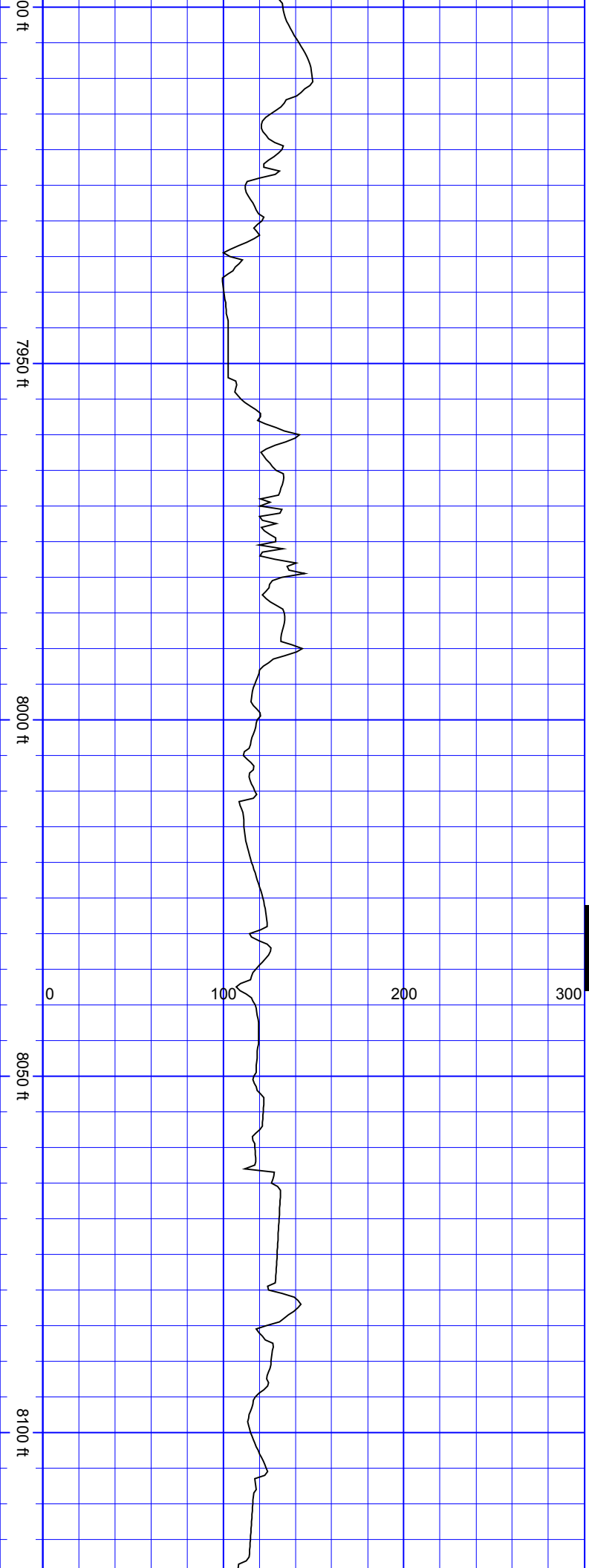






SurveyDepth:7679 TVD:7183.31 Inc:77.3 Azi:1.49 VertSec:-75.75
SurveyDepth:7726 TVD:7192.67 Inc:79.72 Azi:360 VertSec:-30.17
SurveyDepth:7774 TVD:7199.86 Inc:83.06 Azi:358.42 VertSec:16.96
SurveyDepth:7821 TVD:7204.12 Inc:86.53 Azi:358.24 VertSec:63.52
SurveyDepth:7868 TVD:7205.96 Inc:88.99 Azi:358.15 VertSec:110.25

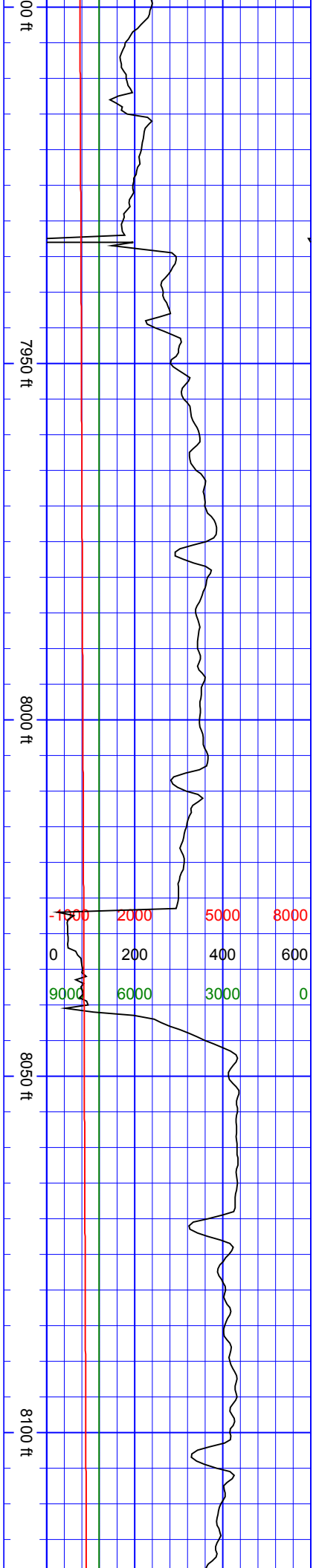


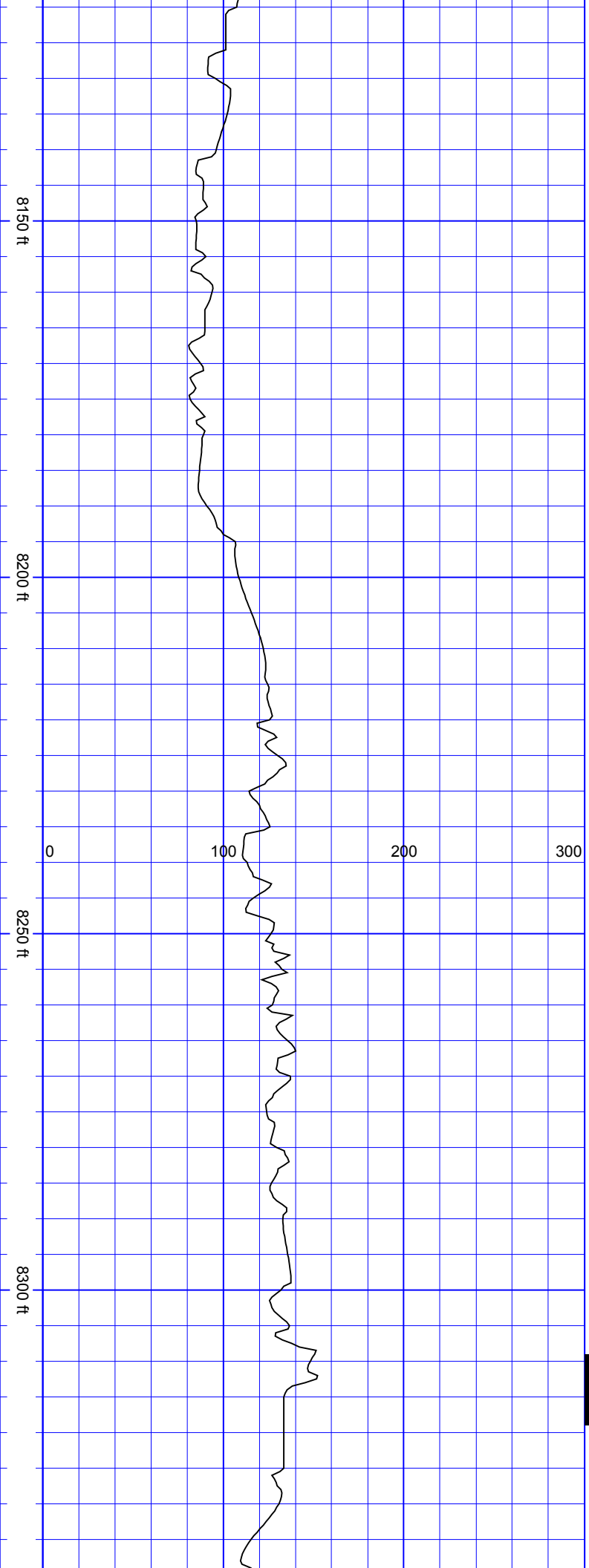


SurveyDepth:7962
TVD:7208.12 Inc:88.37
Azi:358.15
VertSec:203.77

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SurveyDepth:8057
TVD:7208.93 Inc:90.66
Azi:359.47
VertSec:298.18

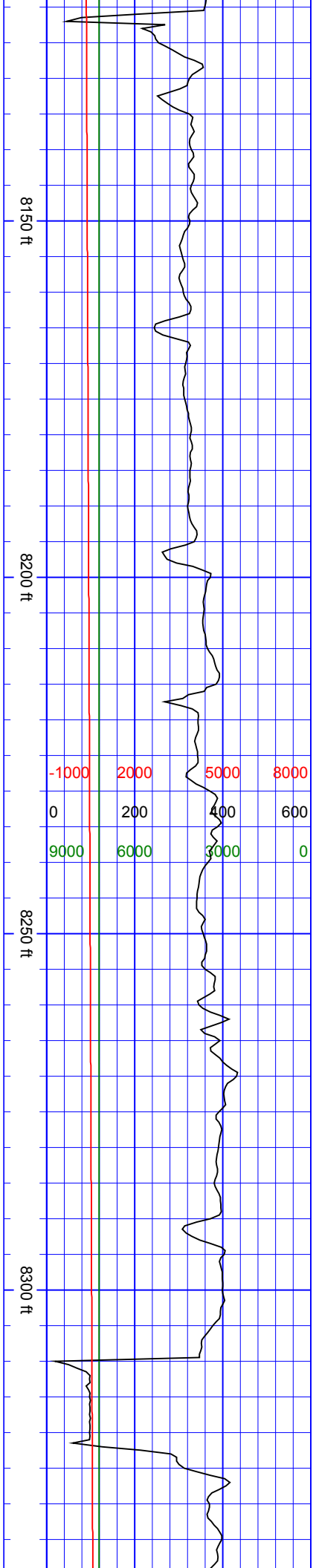


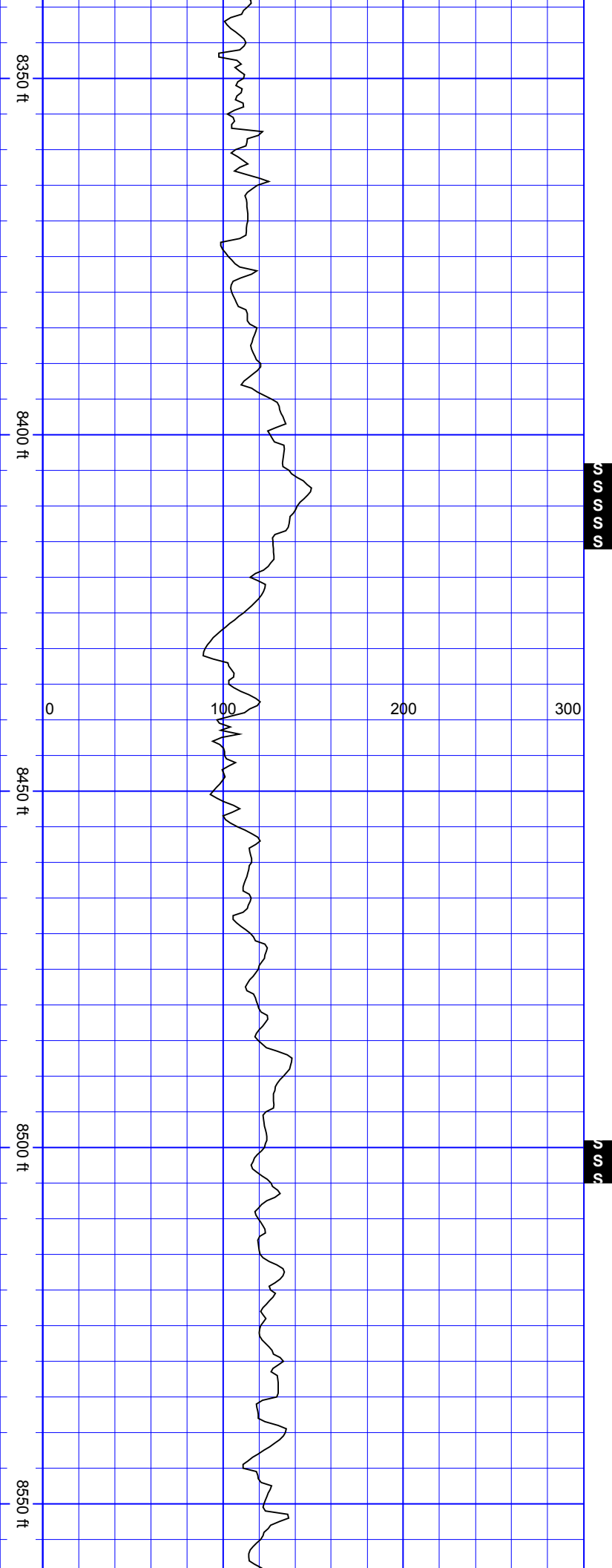


SurveyDepth:8151
TVD:7207.99 Inc:90.48
Azi:358.77
VertSec:391.55

SurveyDepth:8245
TVD:7207.96 Inc:89.56
Azi:358.5
VertSec:485.01

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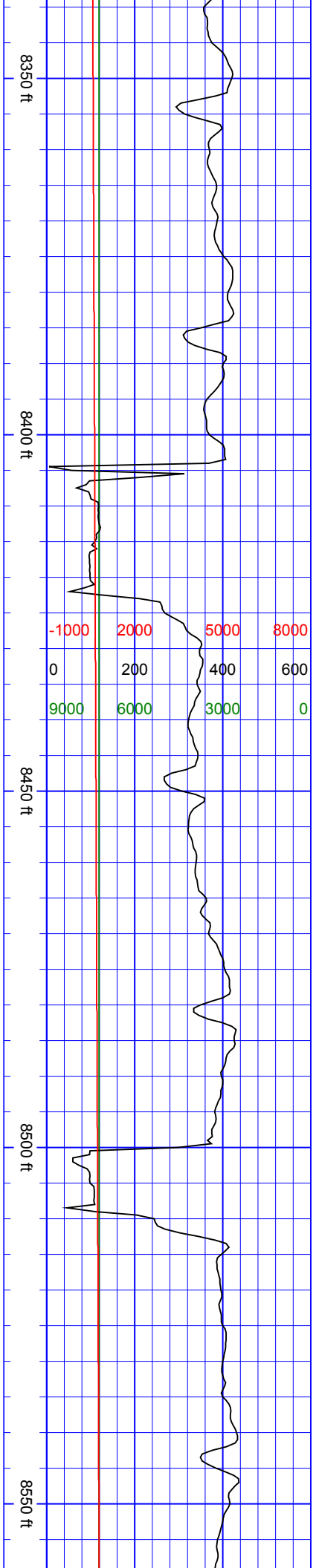


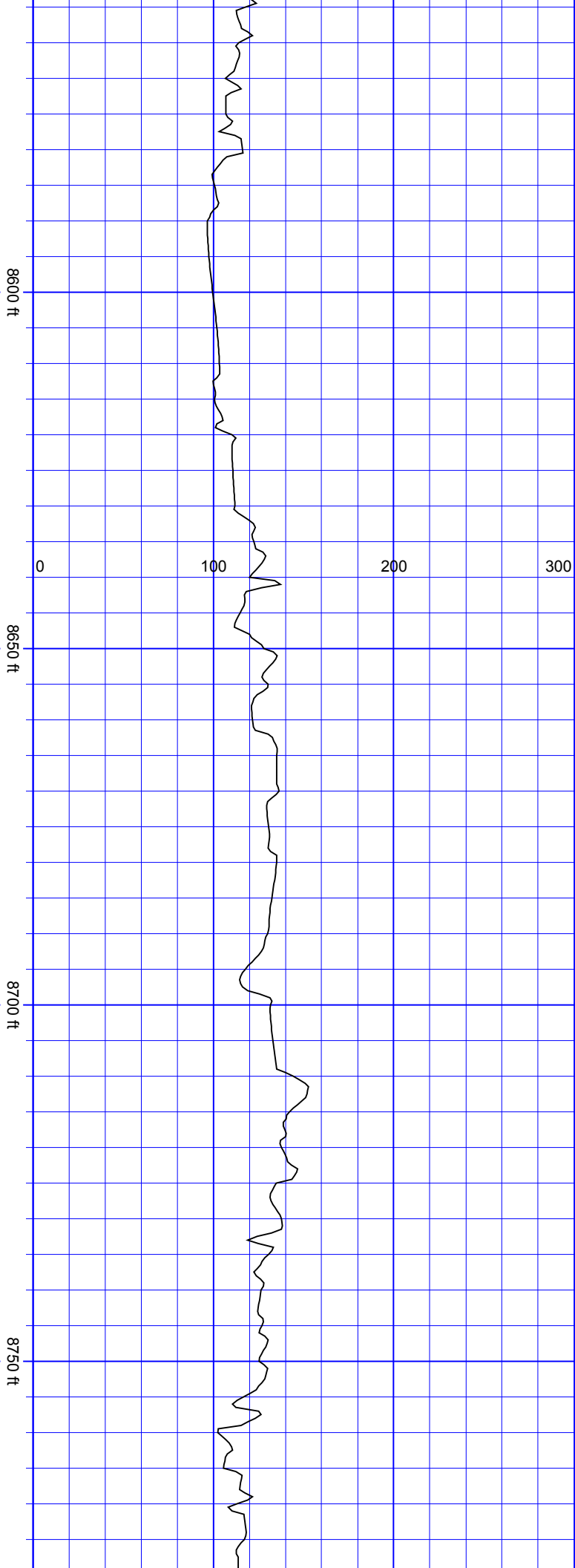


SurveyDepth:8340
TVD:7208.76 Inc:89.47
Azi:359.56
VertSec:579.39

SurveyDepth:8435
TVD:7208.47 Inc:90.88
Azi:0.88 VertSec:673.53

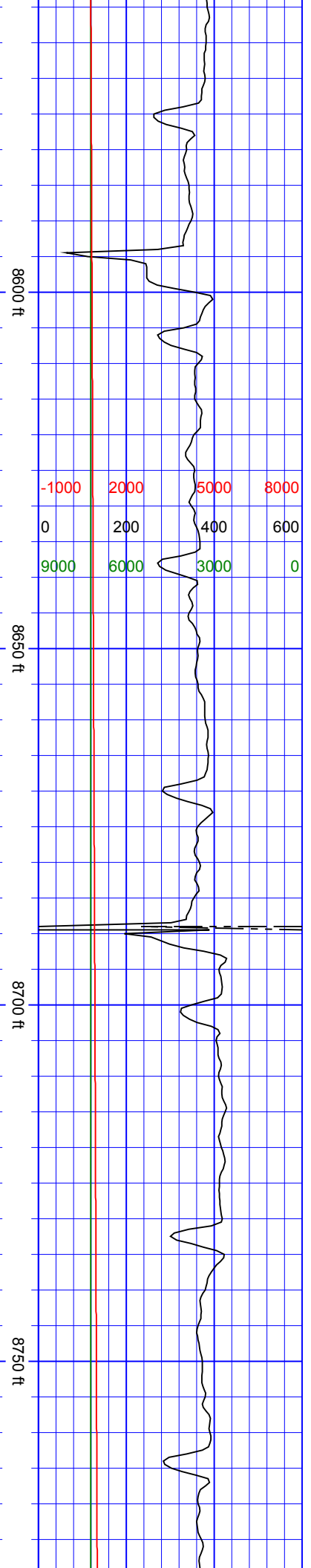
SurveyDepth:8530
TVD:7206.54 Inc:91.45
Azi:1.67 VertSec:767.4

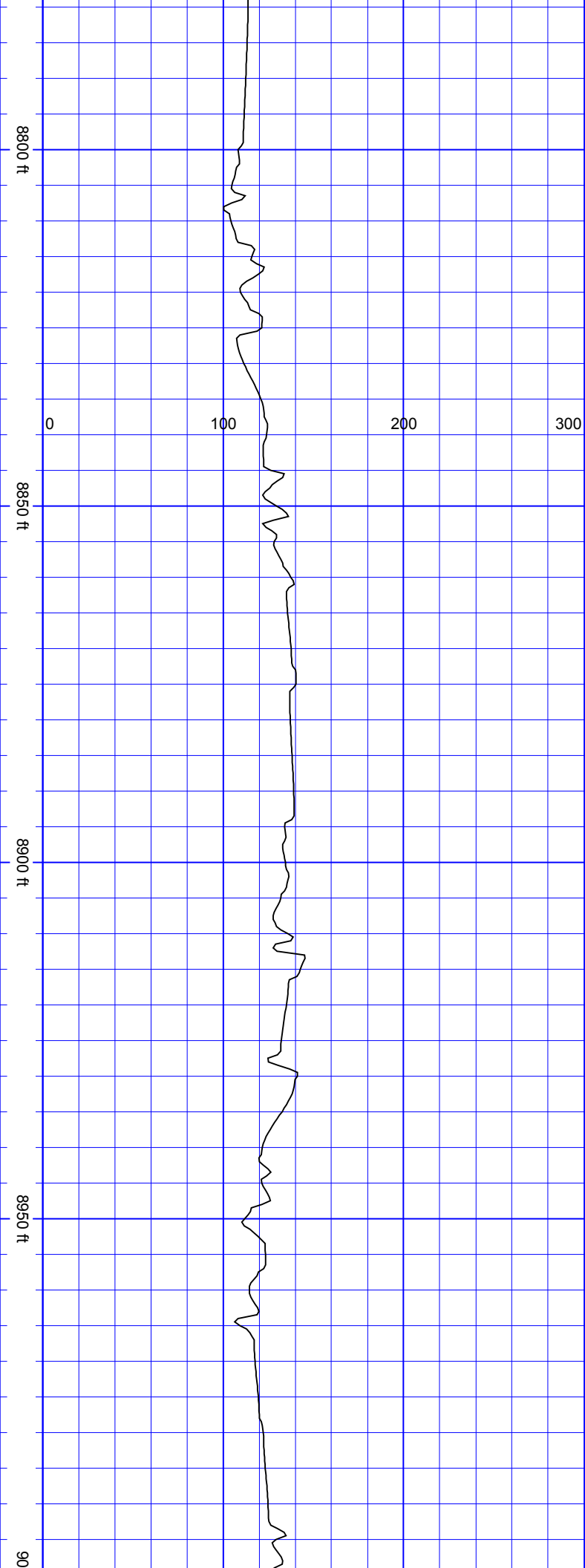




SurveyDepth:8624
TVD:7204.45 Inc:91.1
Azi:0.88 VertSec:860.28

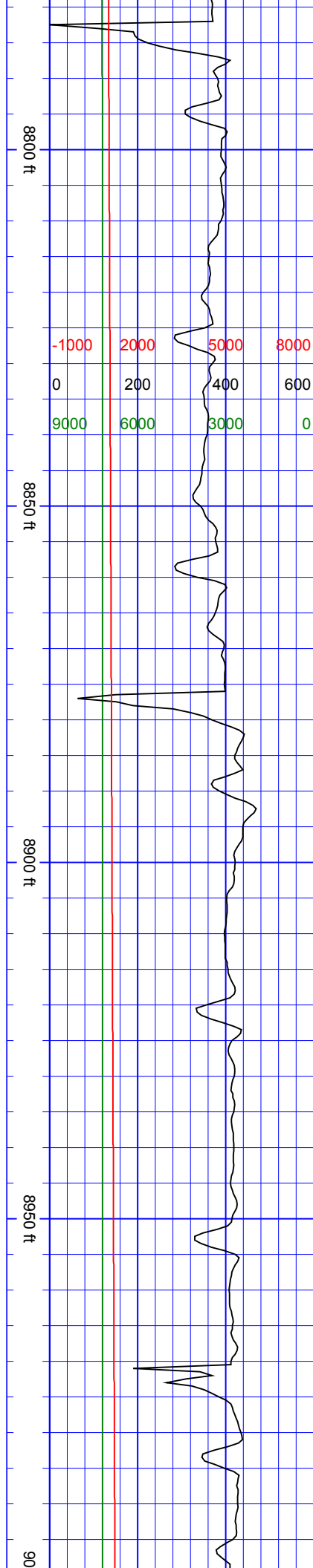
SurveyDepth:8718
TVD:7202.18 Inc:91.67
Azi:0.97 VertSec:953.24

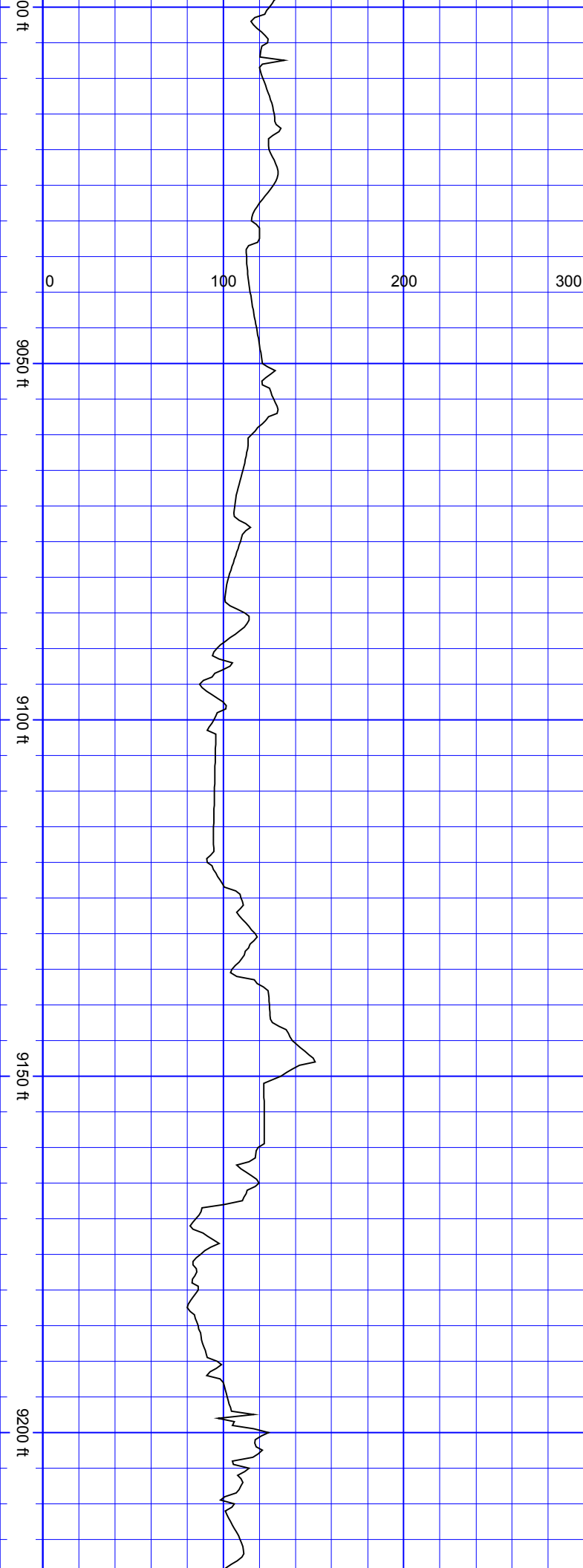




SurveyDepth:8812
TVD:7199.33 Inc:91.8
Azi:0.44
VertSec:1046.24

SurveyDepth:8907
TVD:7196.16 Inc:92.02
Azi:360 VertSec:1140.32

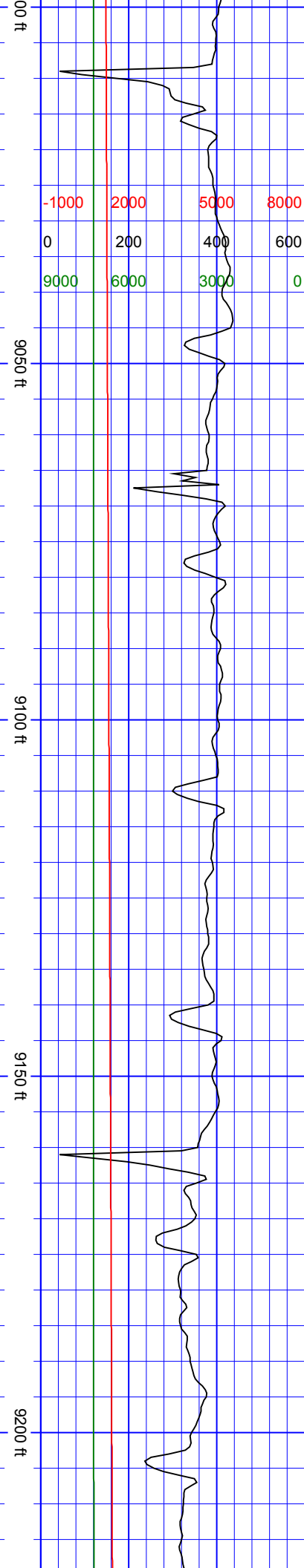


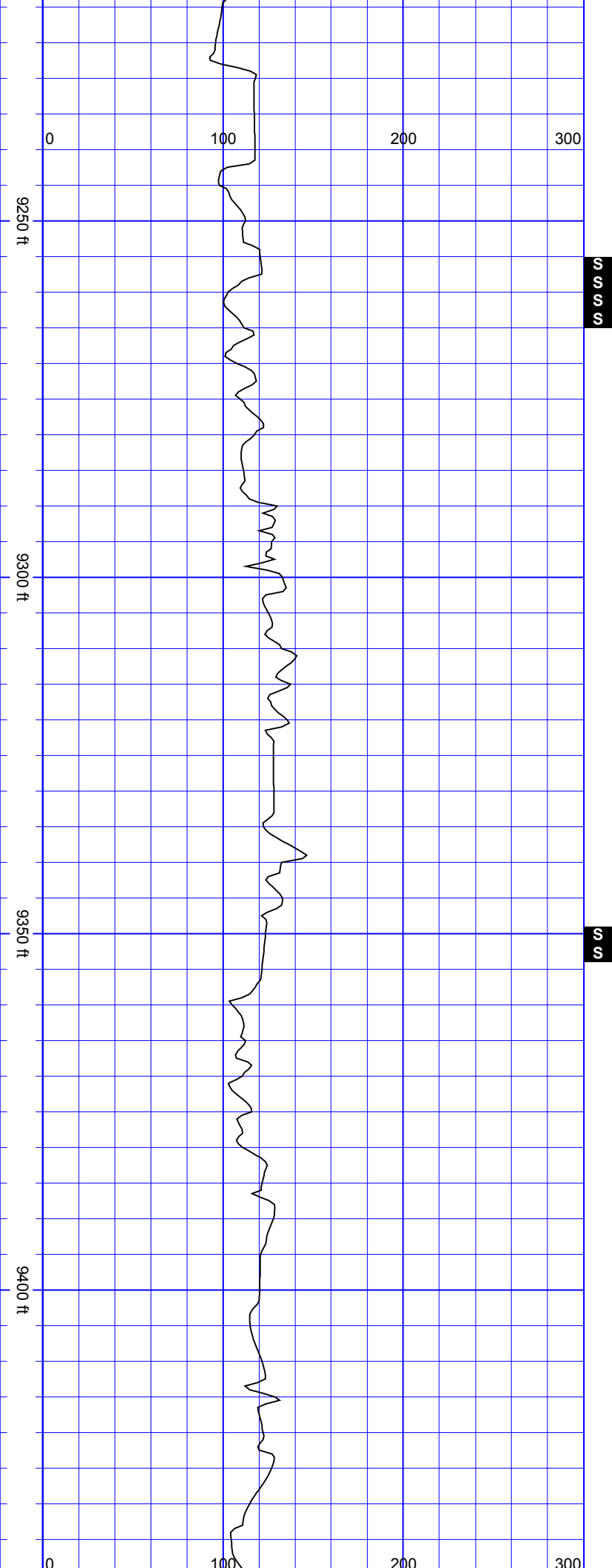


SurveyDepth:9001
TVD:7192.7 Inc:92.2
Azi:359.74
VertSec:1233.49

SurveyDepth:9096
TVD:7188.8 Inc:92.51
Azi:359.56
VertSec:1327.67

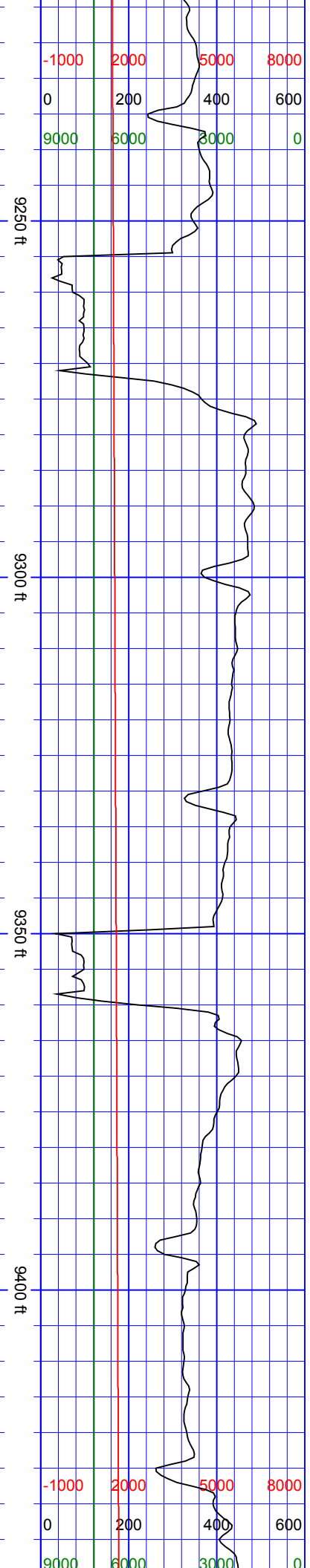
SurveyDepth:9191
TVD:7184.32 Inc:92.9
Azi:359.12
VertSec:1421.89

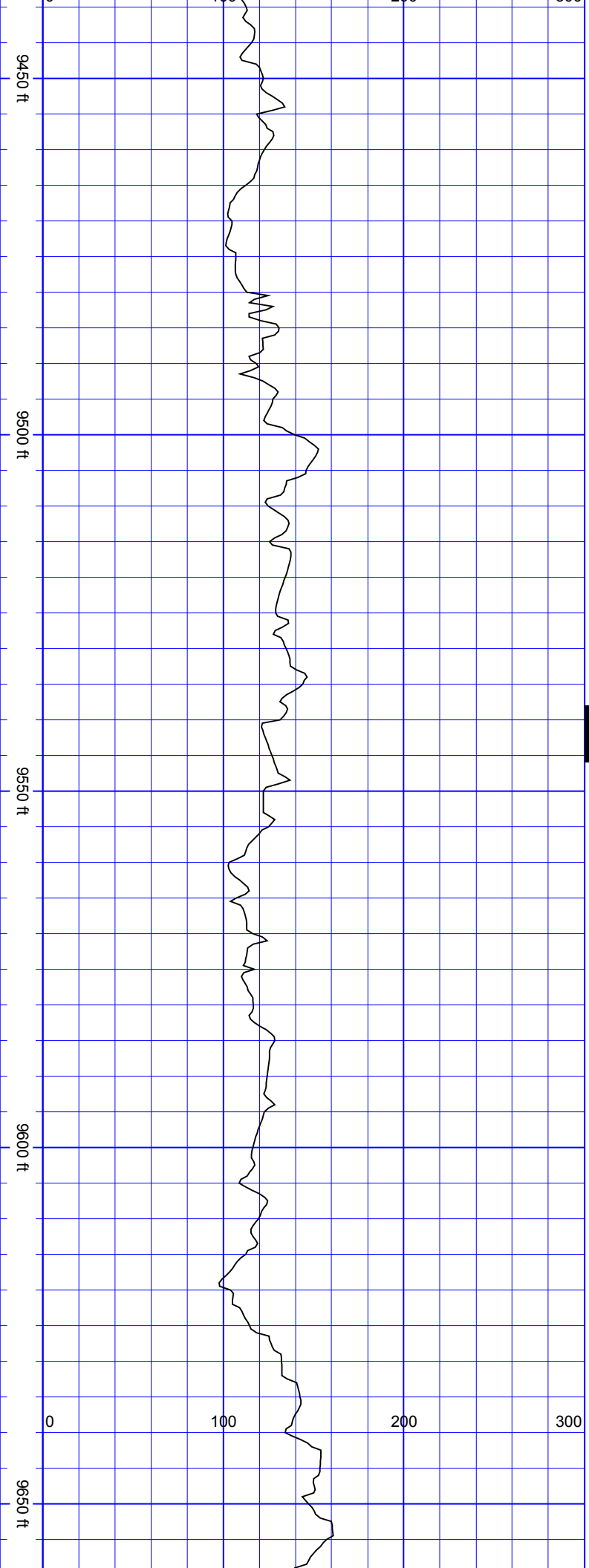




SurveyDepth:9285
TVD:7181.11 Inc:91.01
Azi:359.65
VertSec:1515.16

SurveyDepth:9380
TVD:7180.82 Inc:89.34
Azi:358.77
VertSec:1609.5

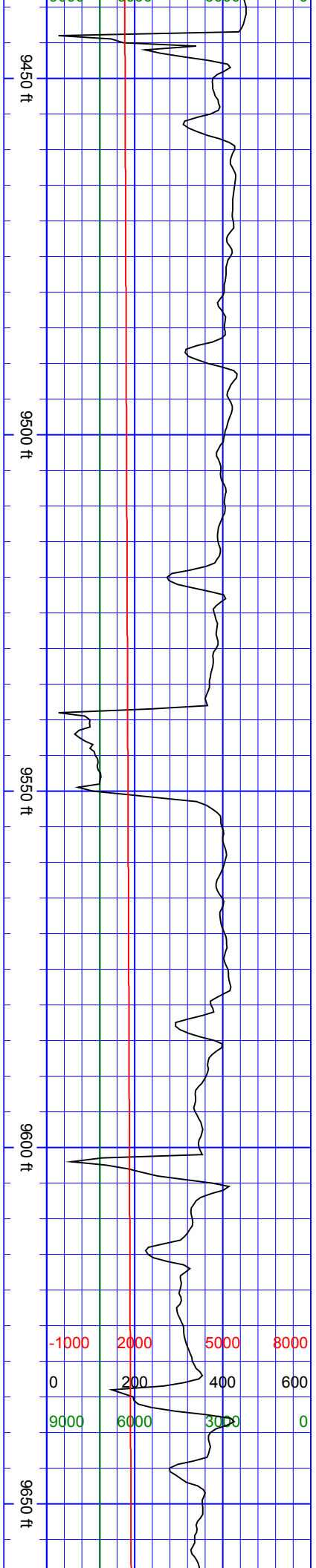


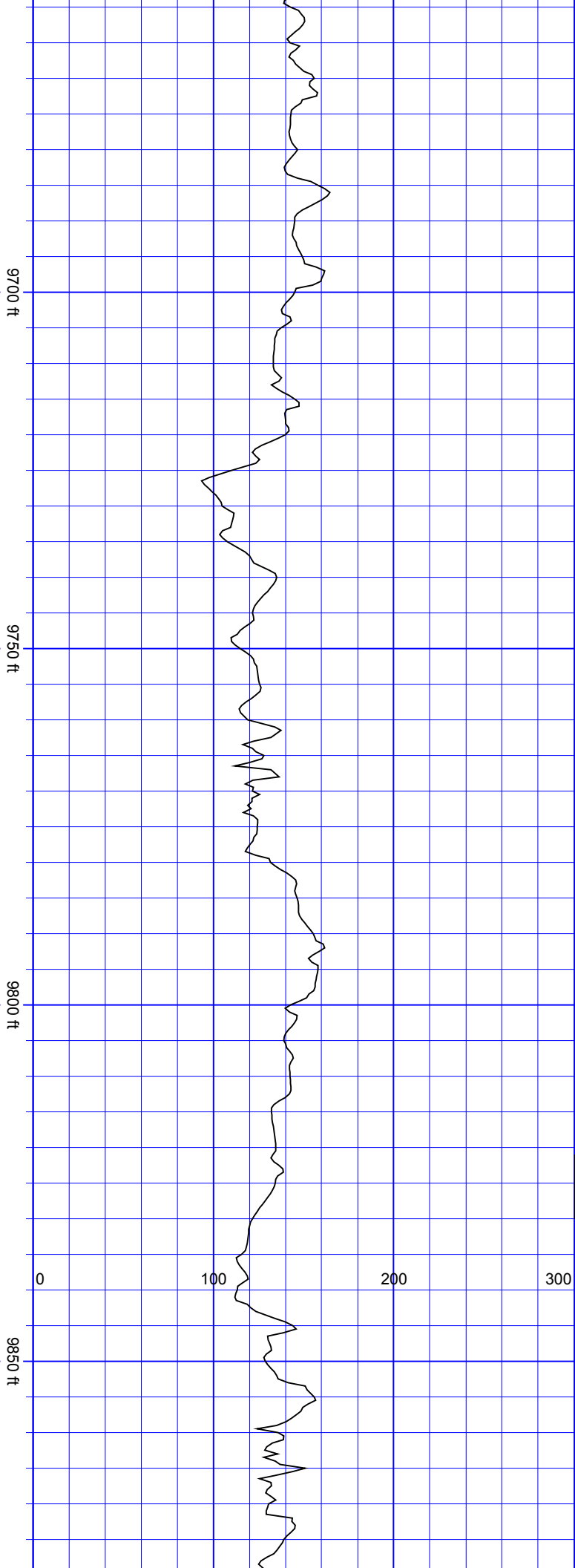


SurveyDepth:9474
TVD:7180.53 Inc:91.01
Azi:359.21
VertSec:1702.9

SurveyDepth:9569
TVD:7179.7 Inc:90
Azi:358.24
VertSec:1797.33

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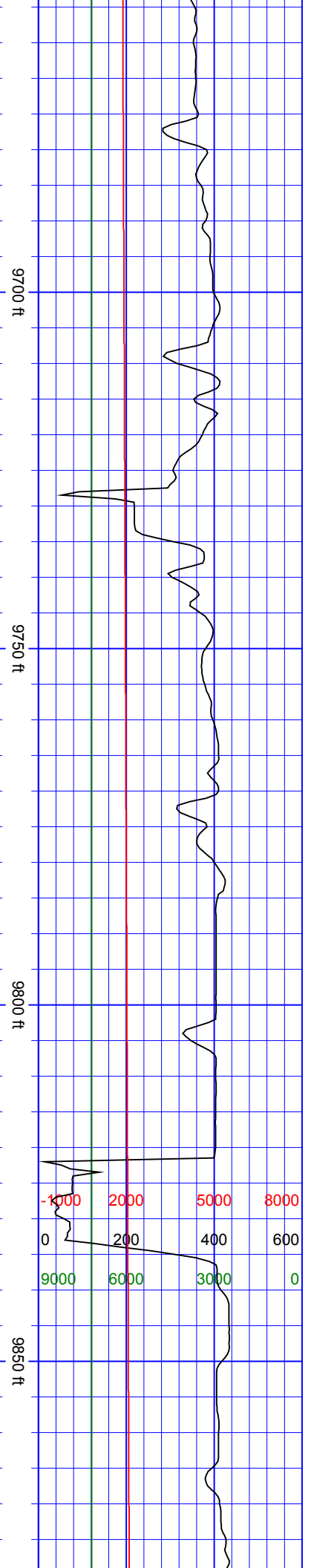


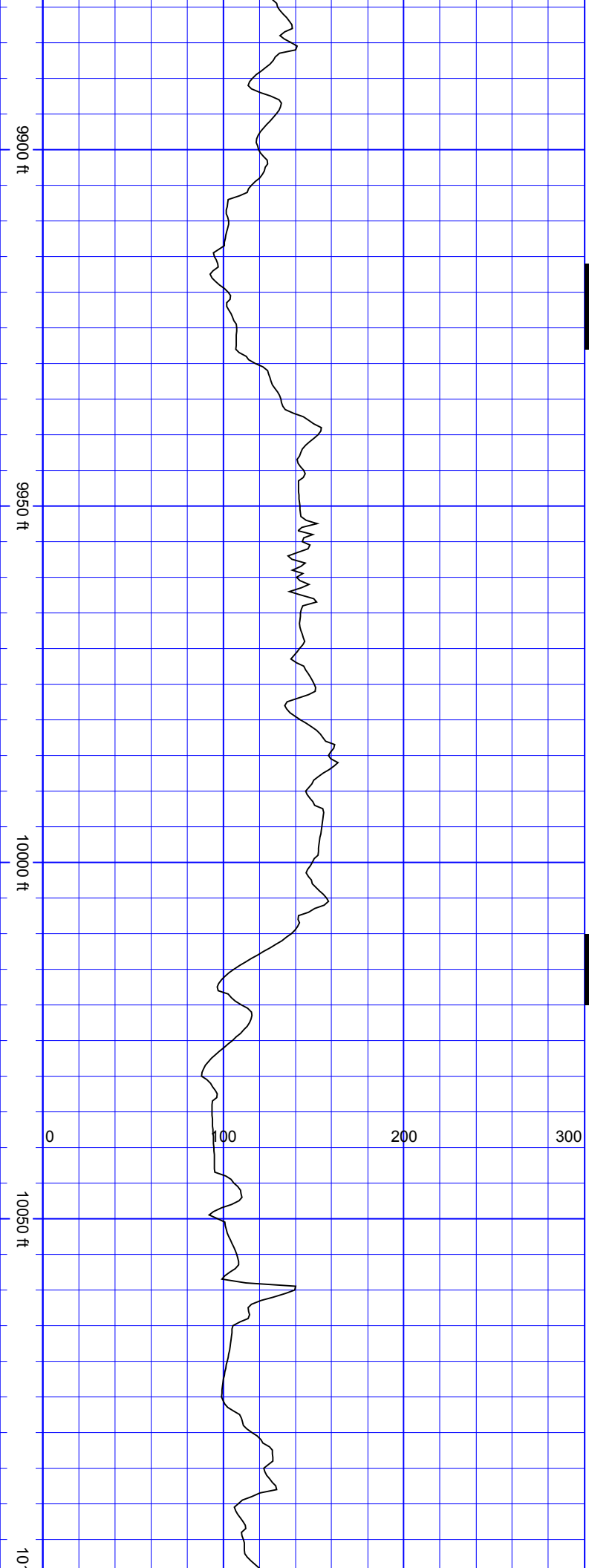
SurveyDepth:9663
TVD:7179.33 Inc:90.44
Azi:357.89
VertSec:1890.89

SurveyDepth:9757
TVD:7178.51 Inc:90.57
Azi:357.36
VertSec:1984.51

SSS

SurveyDepth:9852
TVD:7177.15 Inc:91.06
Azi:358.33
VertSec:2079.09



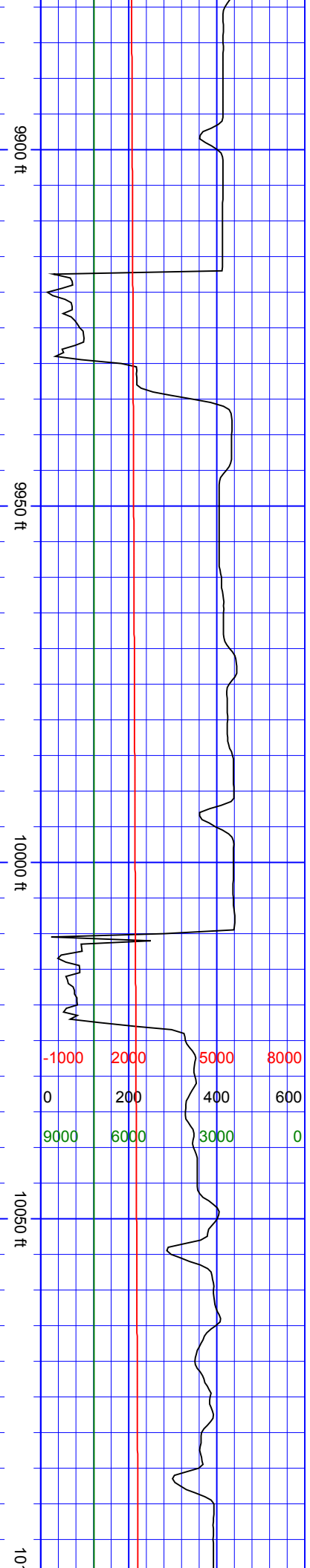


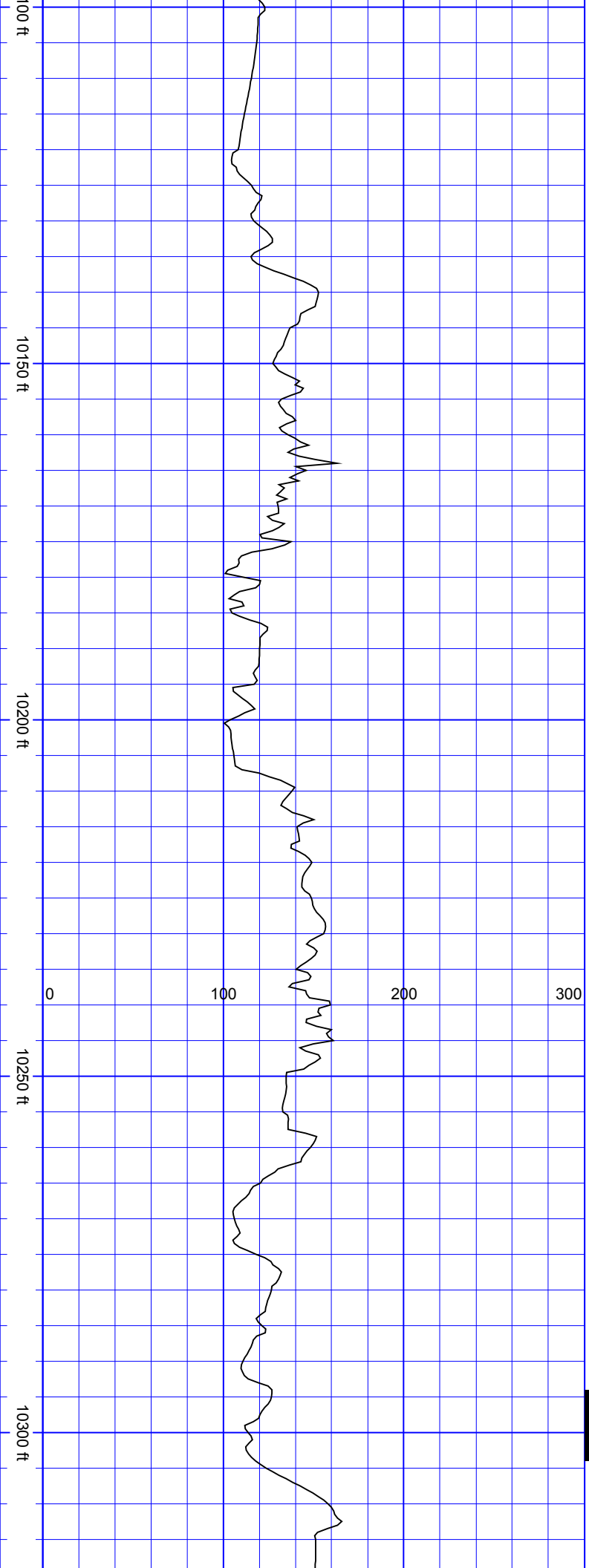
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SurveyDepth:9946
TVD:7175.64 Inc:90.79
Azi:359.65
VertSec:2172.47

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SurveyDepth:10040
TVD:7174.88 Inc:90.13
Azi:0.53
VertSec:2265.65

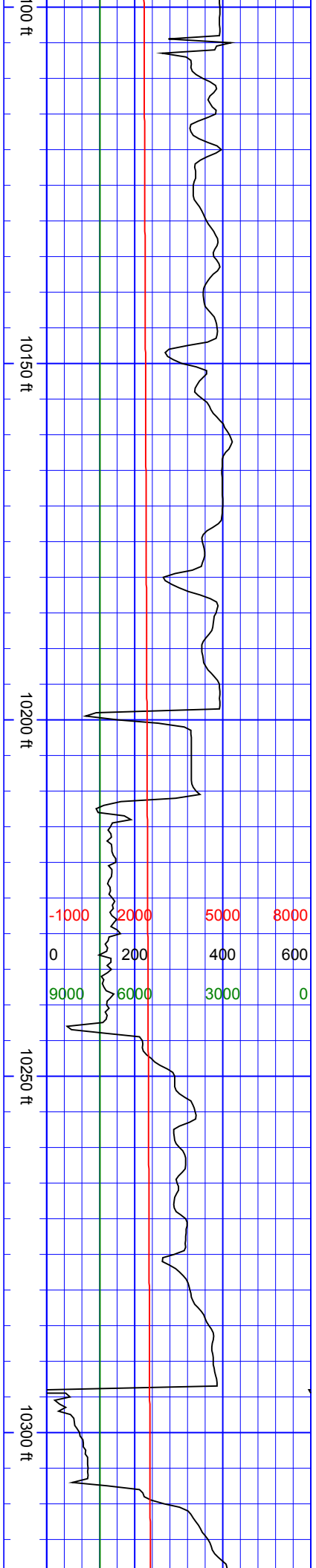




SurveyDepth:10135
TVD:7173.76 Inc:91.23
Azi:0.26
VertSec:2359.74

SurveyDepth:10230
TVD:7171.2 Inc:91.85
Azi:359.91
VertSec:2453.88

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10350 ft

10400 ft

10450 ft

10500 ft

0 100 200 300

SSSSSS

SurveyDepth:10324
TVD:7168.46 Inc:91.49
Azi:0.88
VertSec:2546.95

SurveyDepth:10419
TVD:7167.05 Inc:90.22
Azi:1.05 VertSec:2640.9

SurveyDepth:10513
TVD:7166.72 Inc:90.18
Azi:0.88
VertSec:2733.88

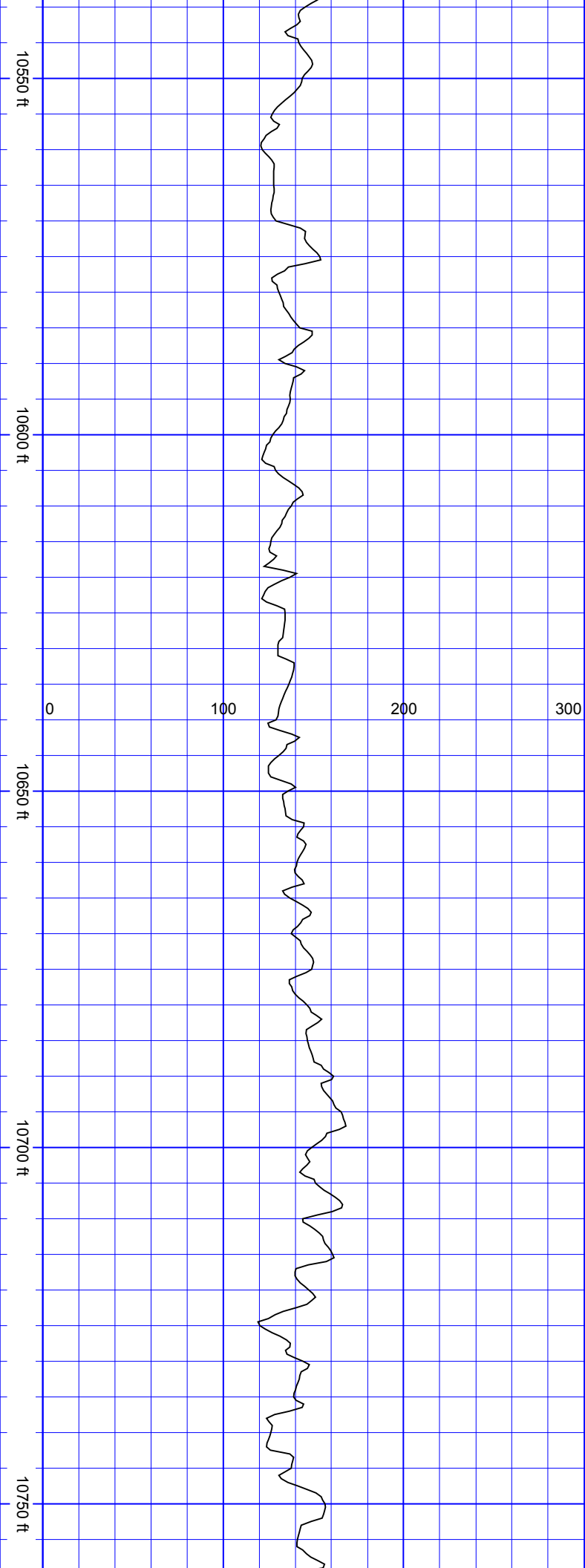
10350 ft

10400 ft

10450 ft

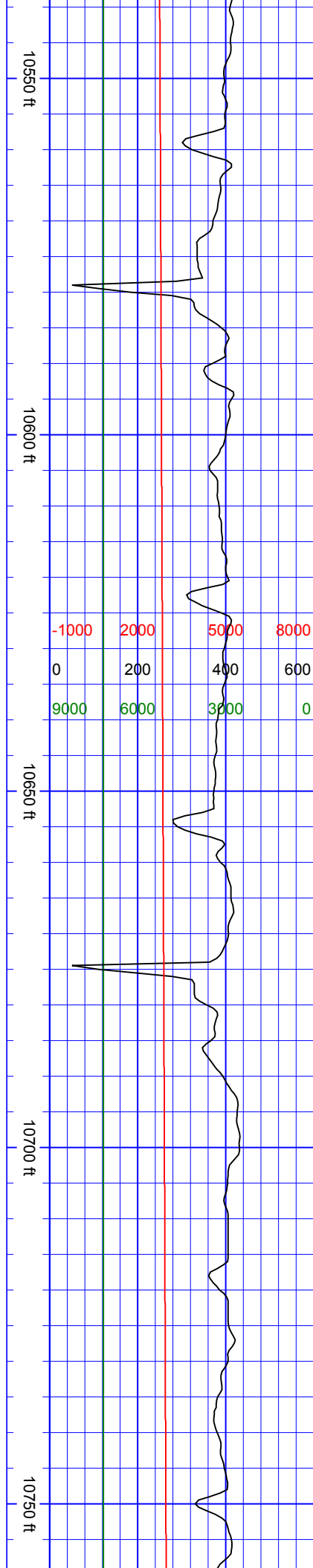
10500 ft

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



SurveyDepth:10607
TVD:7166.6 Inc:89.96
Azi:0.61
VertSec:2826.91

SurveyDepth:10702
TVD:7166.45 Inc:90.22
Azi:0.44
VertSec:2920.98



10800 ft

0 100 200 300

10850 ft

10900 ft

10950 ft

SurveyDepth:10796
TVD:7166.06 Inc:90.26
Azi:0.09
VertSec:3014.12

SurveyDepth:10891
TVD:7165.51 Inc:90.4
Azi:359.65
VertSec:3108.34

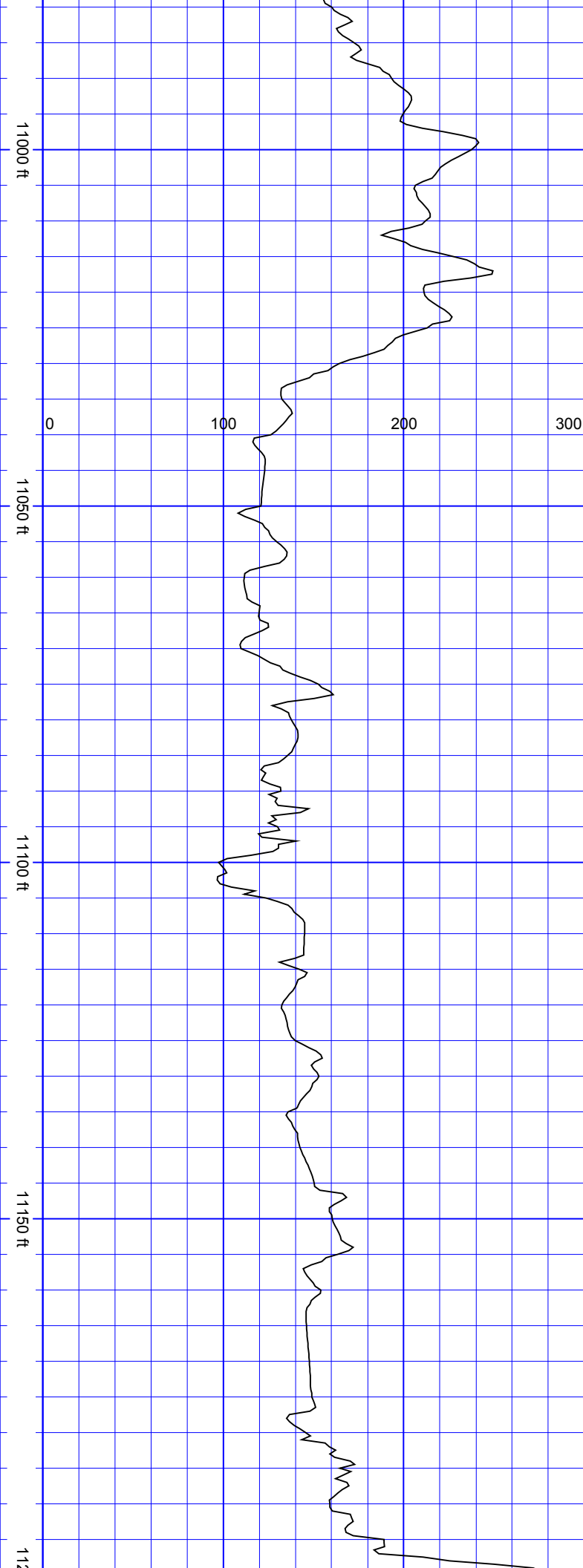
10800 ft

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

10850 ft

10900 ft

10950 ft

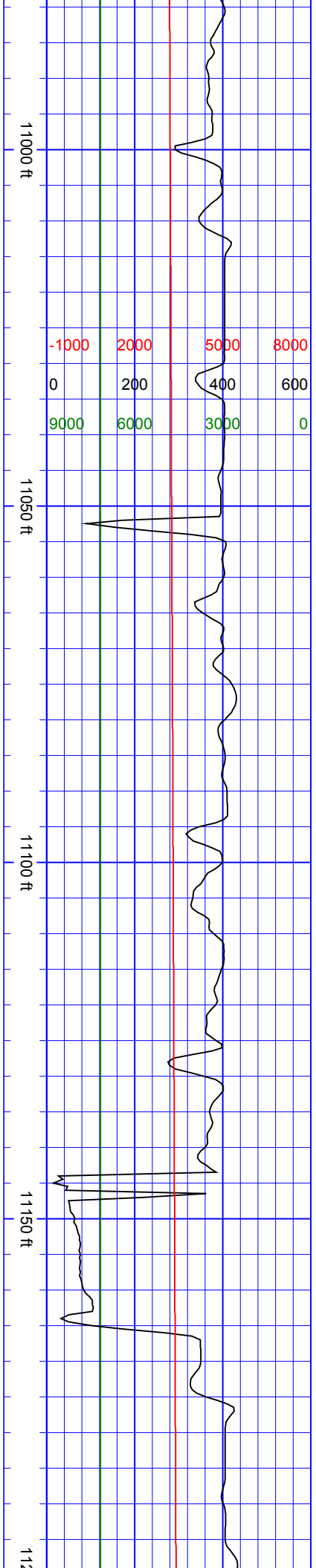


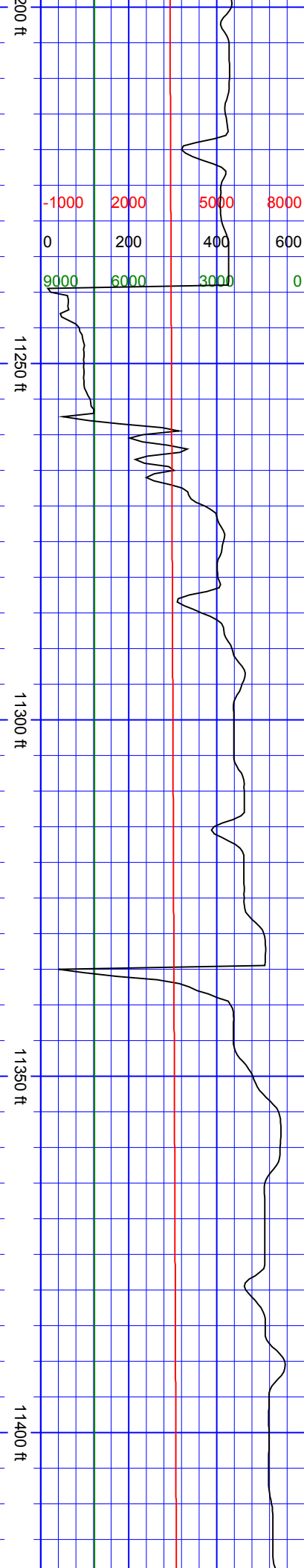
SurveyDepth:10985
TVD:7164.82 Inc:90.44
Azi:359.38
VertSec:3201.64

SurveyDepth:11080
TVD:7163.07 Inc:91.67
Azi:359.21
VertSec:3295.95

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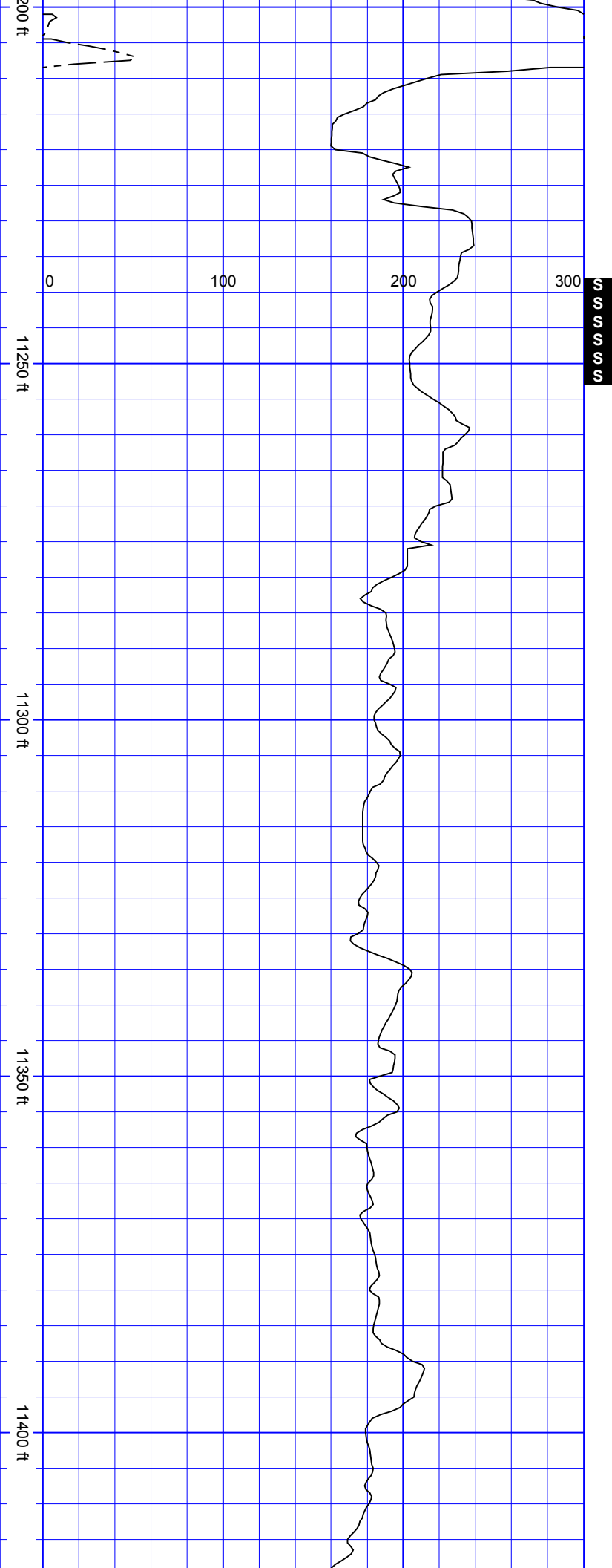
SurveyDepth:11174
TVD:7161.06 Inc:90.79
Azi:359.91
VertSec:3389.22

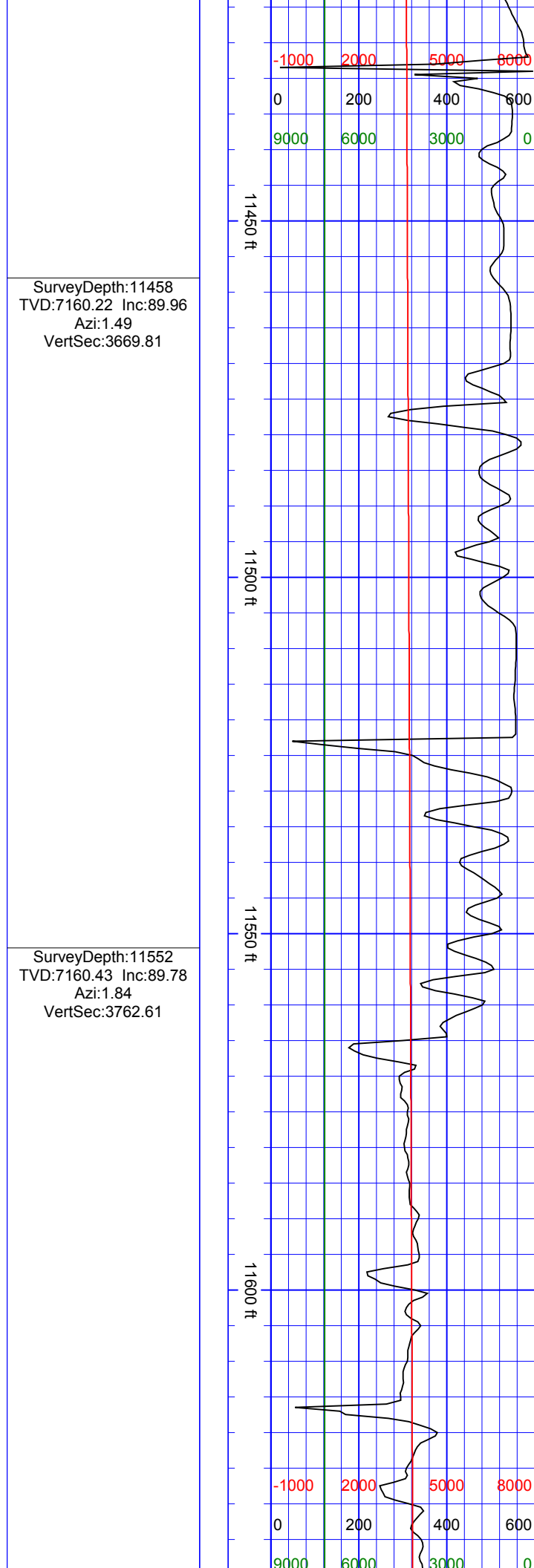
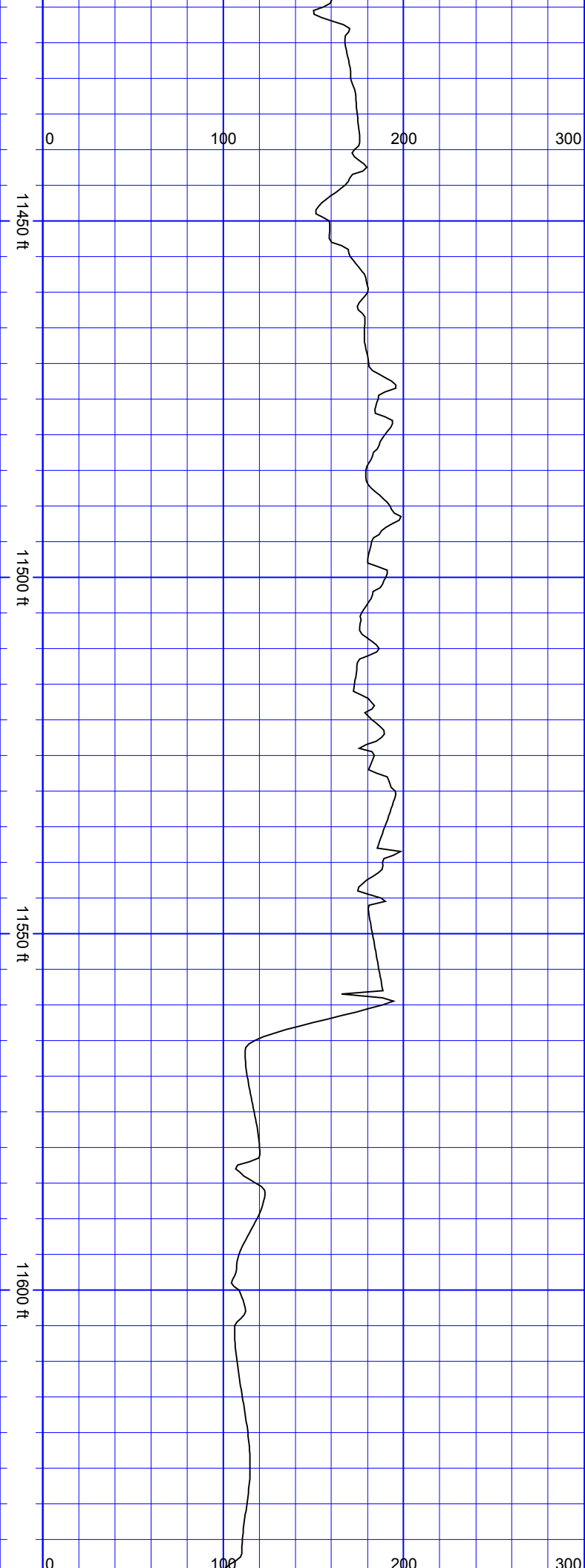


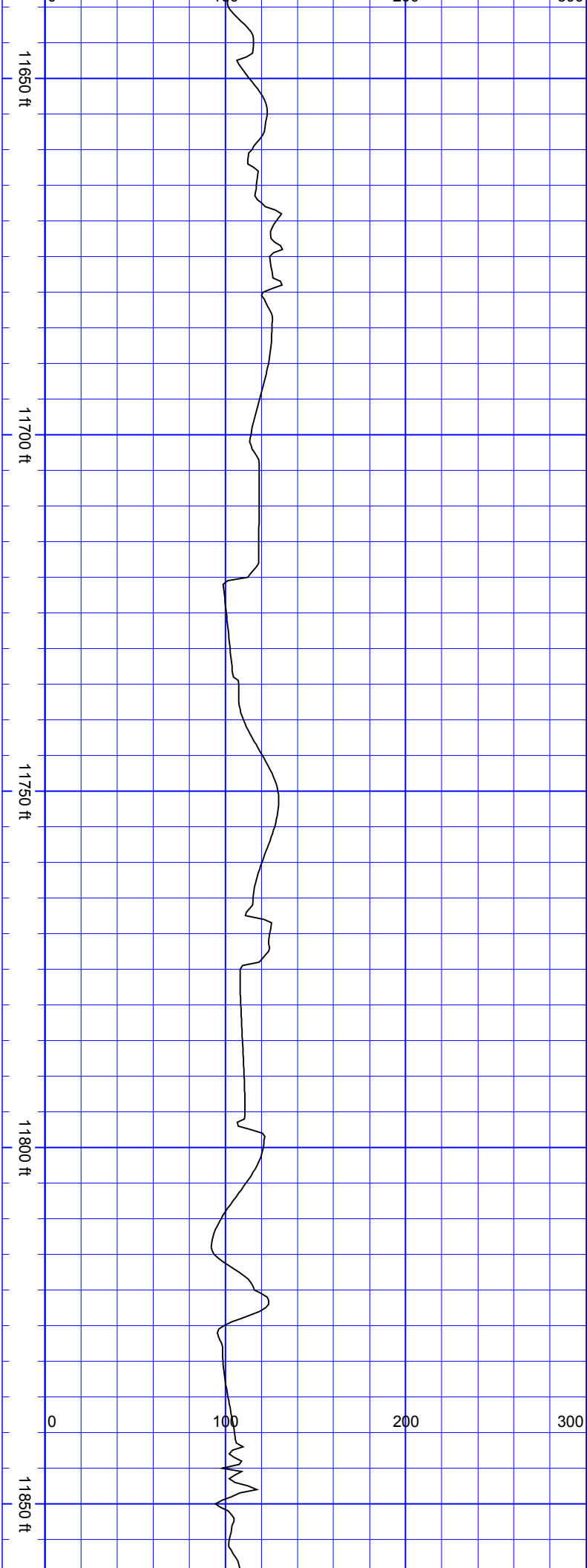


SurveyDepth:11269
TVD:7160.29 Inc:90.13
Azi:1.76
VertSec:3483.21

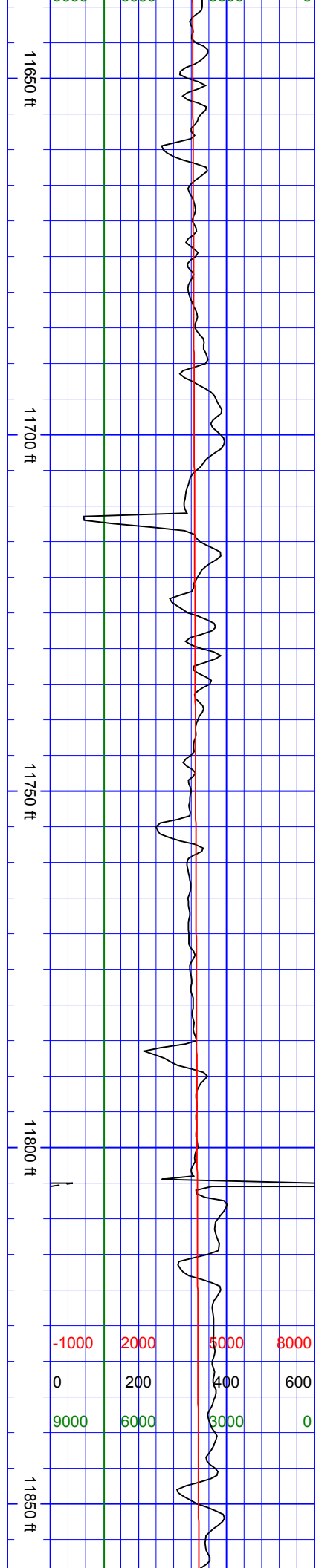
SurveyDepth:11363
TVD:7160.19 Inc:90
Azi:1.67 VertSec:3576

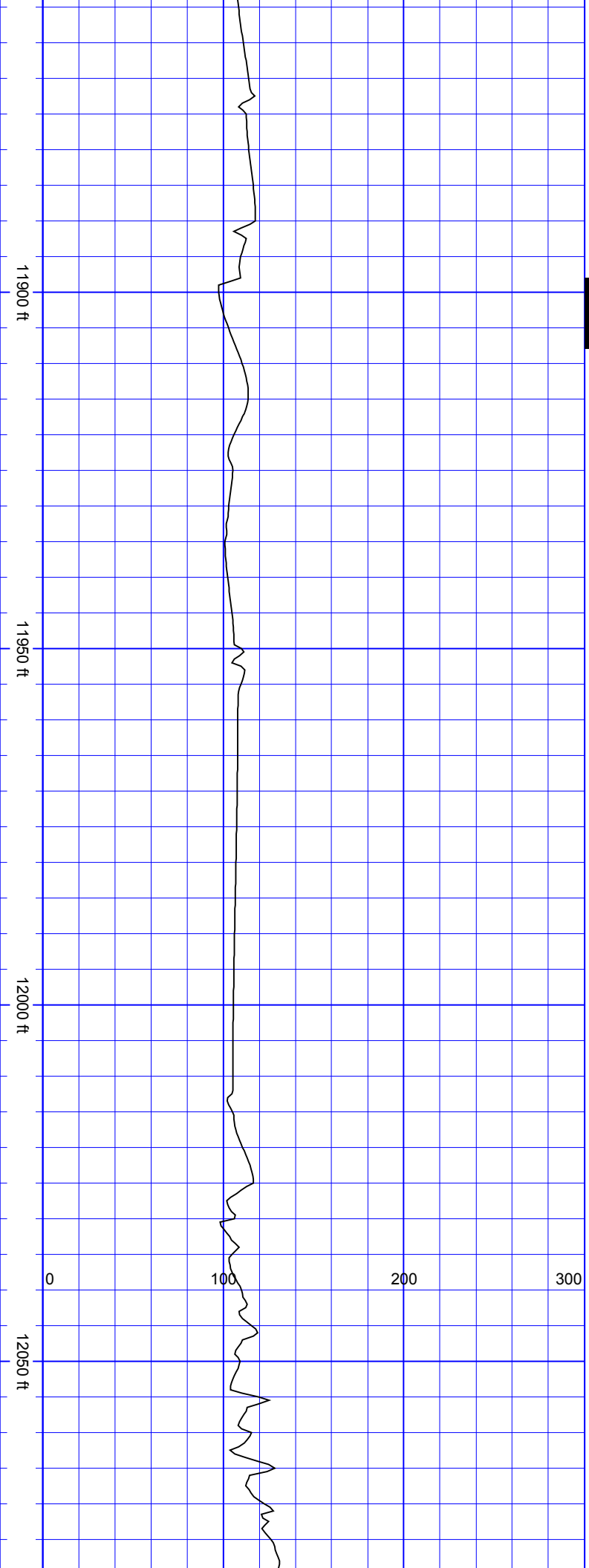






SurveyDepth:11646 TVD:7161.47 Inc:88.95 Azi:1.23 VertSec:3855.44	SurveyDepth:11740 TVD:7163.27 Inc:88.86 Azi:1.41 VertSec:3948.32	SurveyDepth:11834 TVD:7165.29 Inc:88.68 Azi:1.05 VertSec:4041.21
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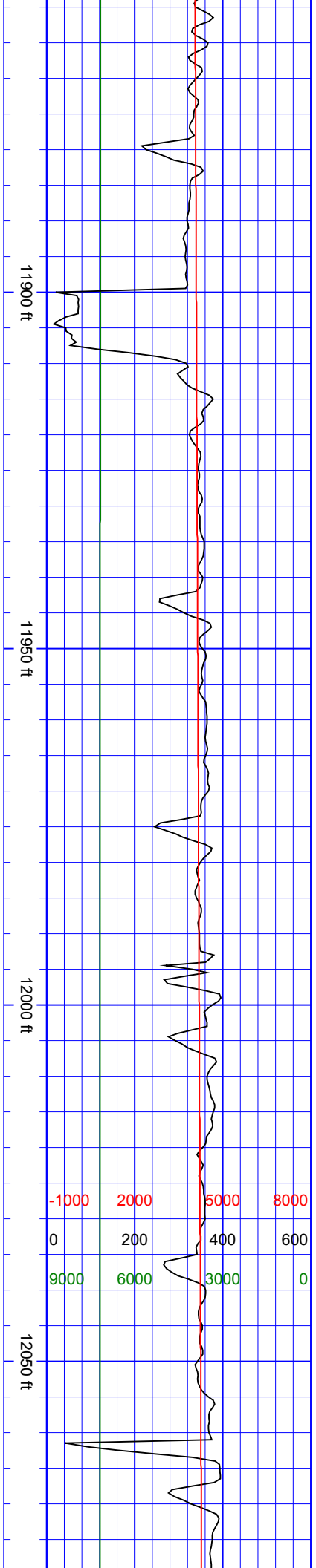




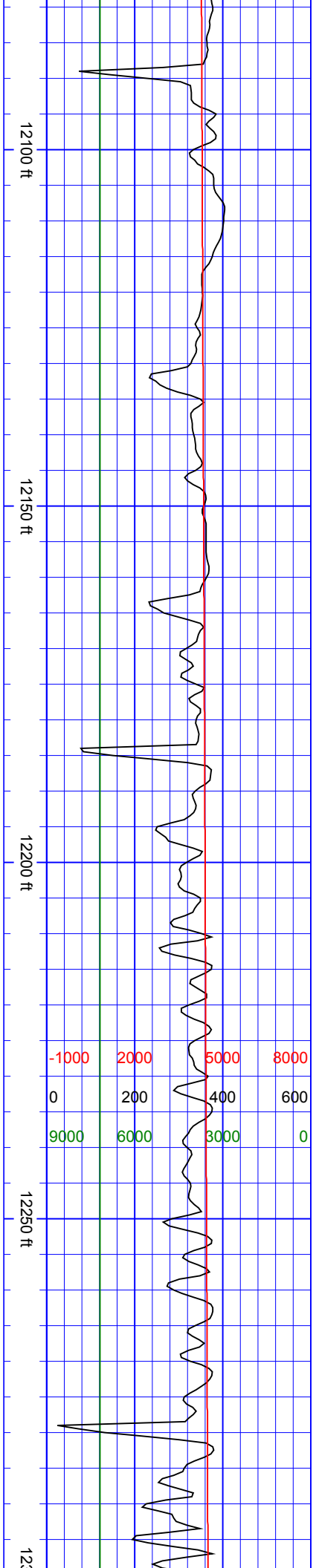
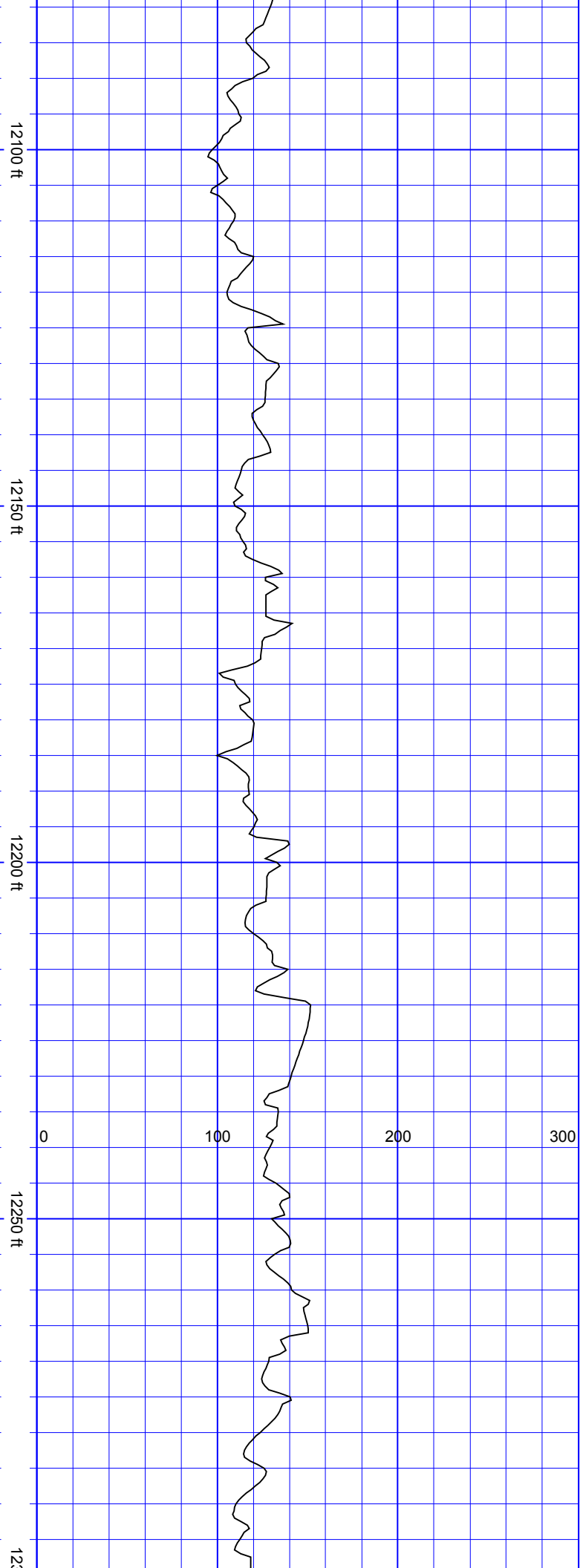
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SurveyDepth:11928
TVD:7167.49 Inc:88.64
Azi:358.94
VertSec:4134.38

SurveyDepth:12022
TVD:7169.32 Inc:89.12
Azi:359.3
VertSec:4227.73



SurveyDepth:12117
TVD:7171.04 Inc:88.81
Azi:358.59
VertSec:4322.12



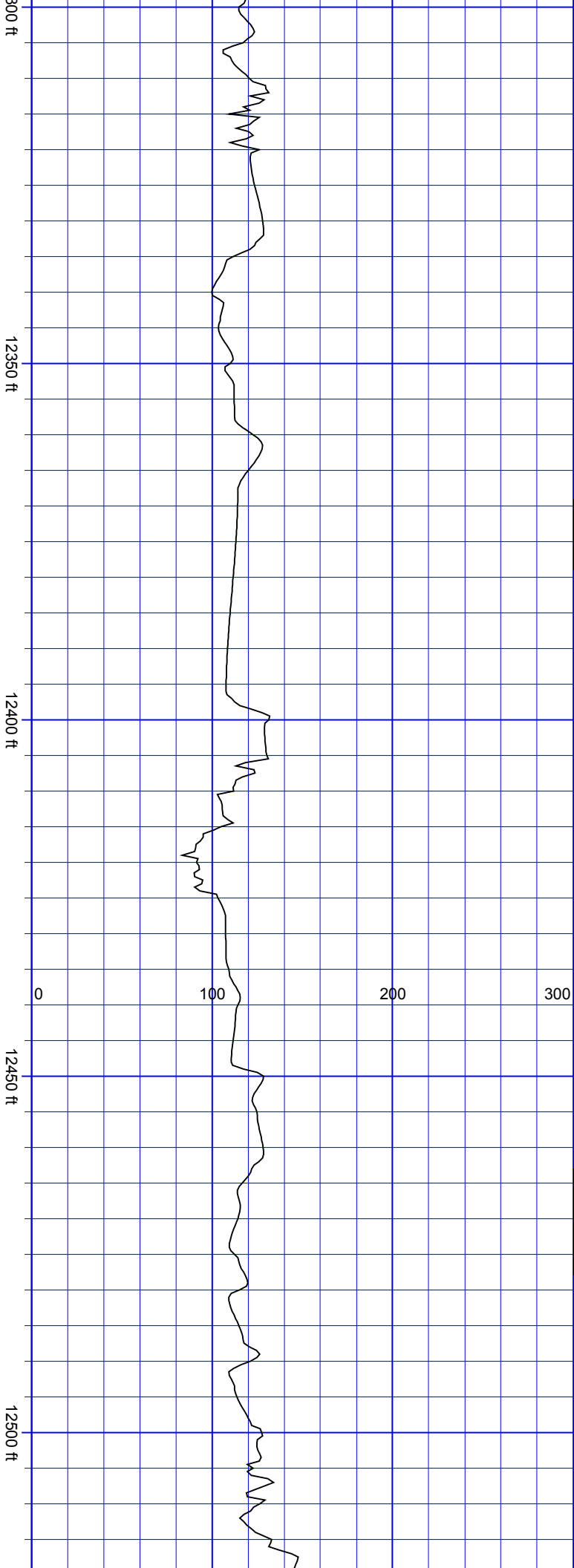
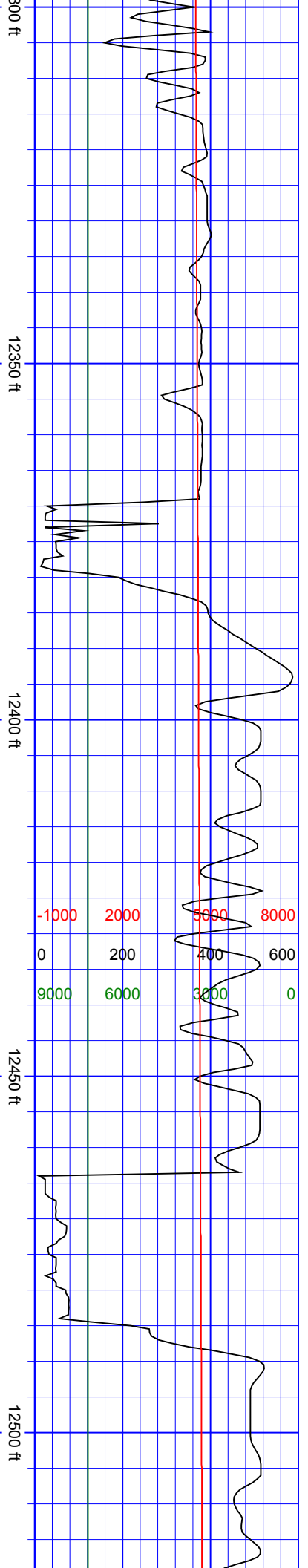
SurveyDepth:12305
TVD:7173.72 Inc:89.56
Azi:357.27
VertSec:4509.25

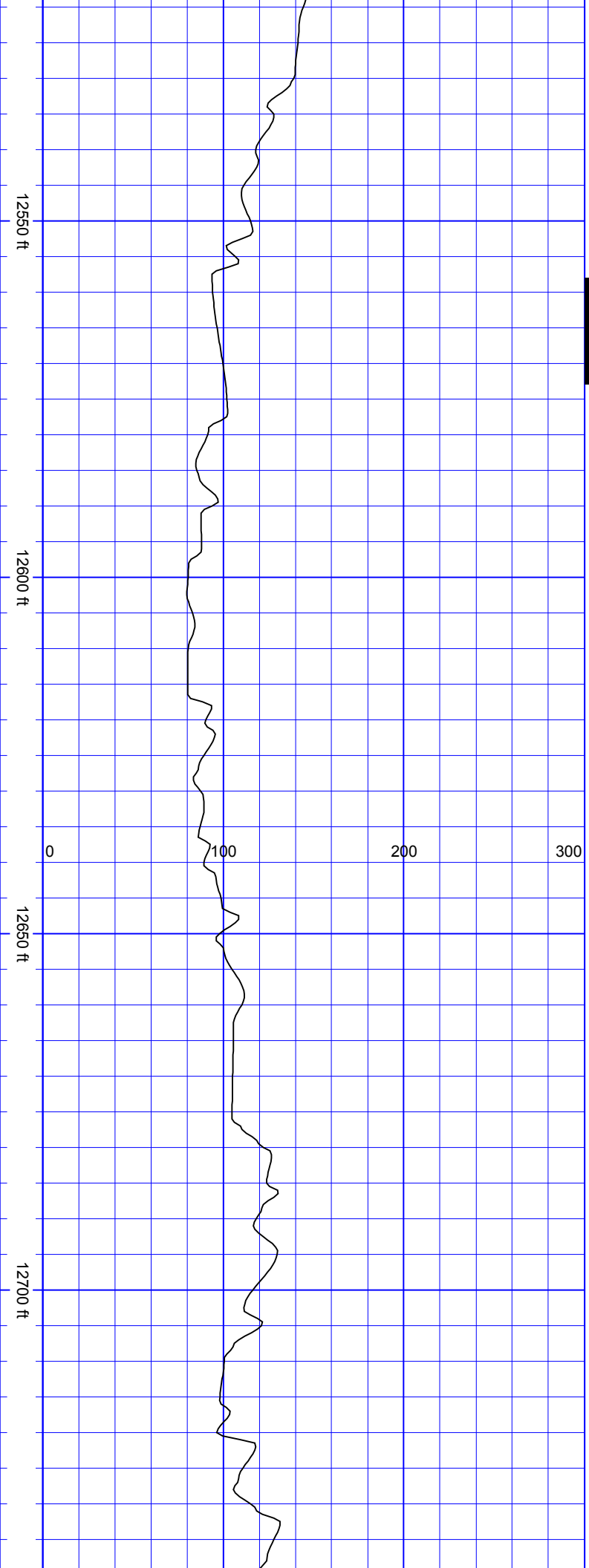
SurveyDepth:12399
TVD:7173.97 Inc:90.13
Azi:357.71
VertSec:4602.9

SurveyDepth:12494
TVD:7173.5 Inc:90.44
Azi:359.03
VertSec:4697.4

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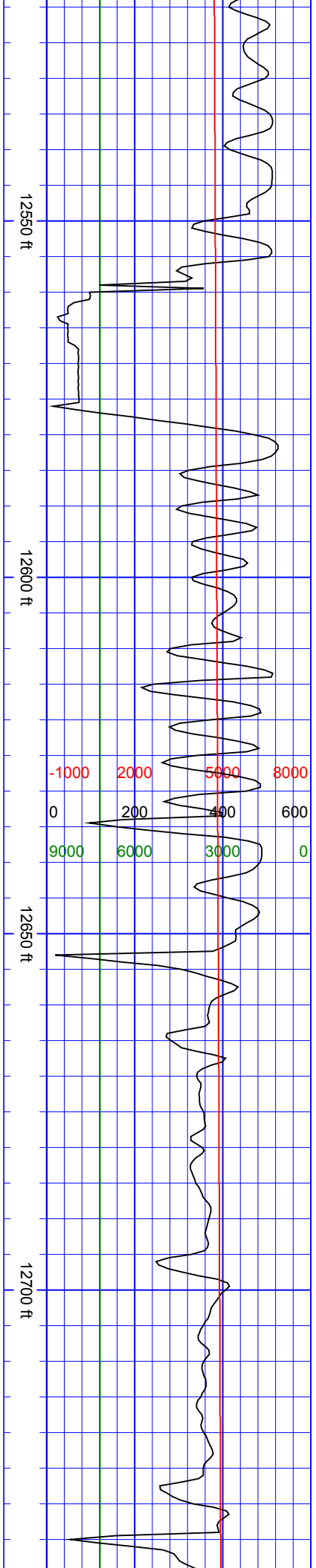


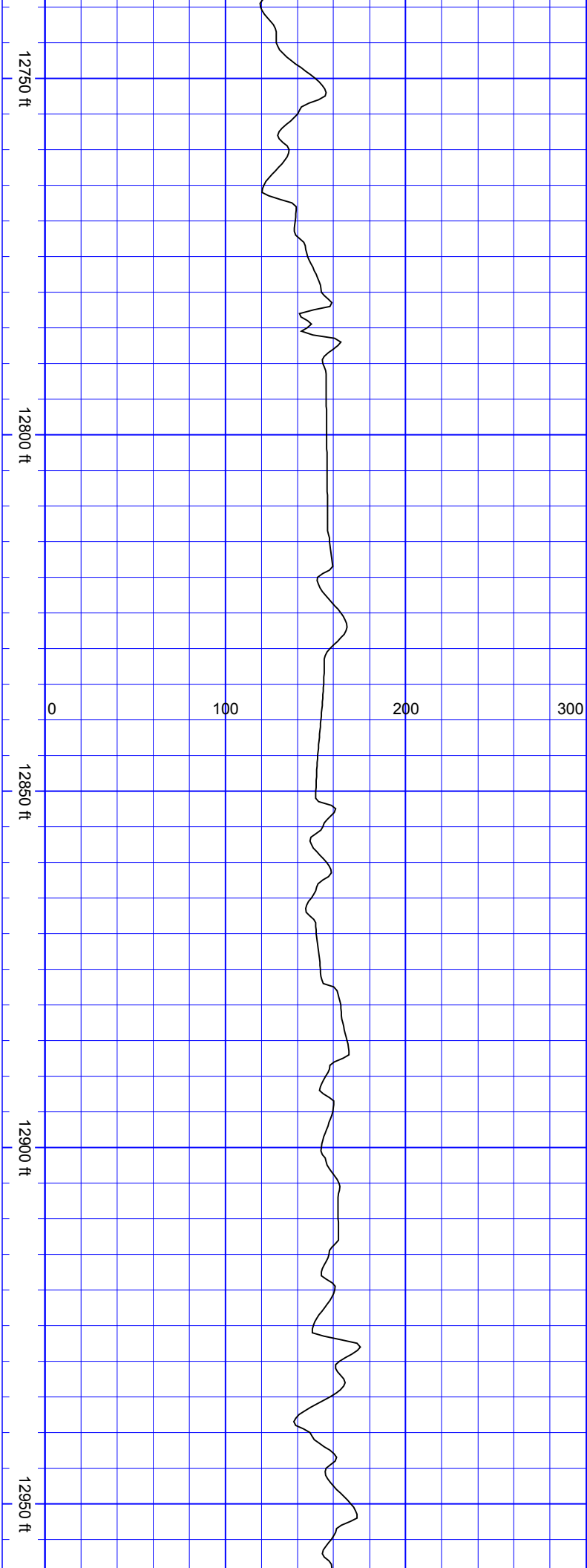


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SurveyDepth:12588
TVD:7173.03 Inc:90.13
Azi:1.23
VertSec:4790.56

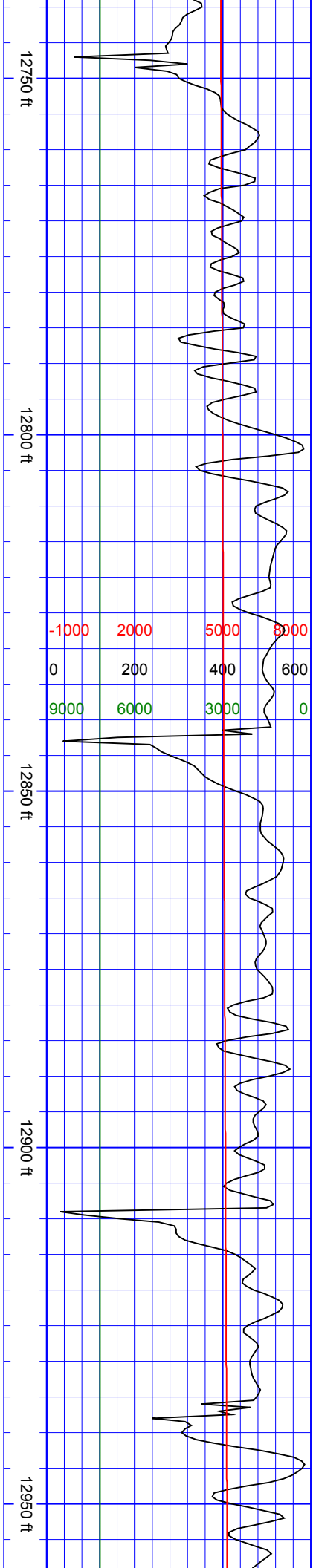
SurveyDepth:12683
TVD:7172.85 Inc:90.09
Azi:0.97 VertSec:4884.5

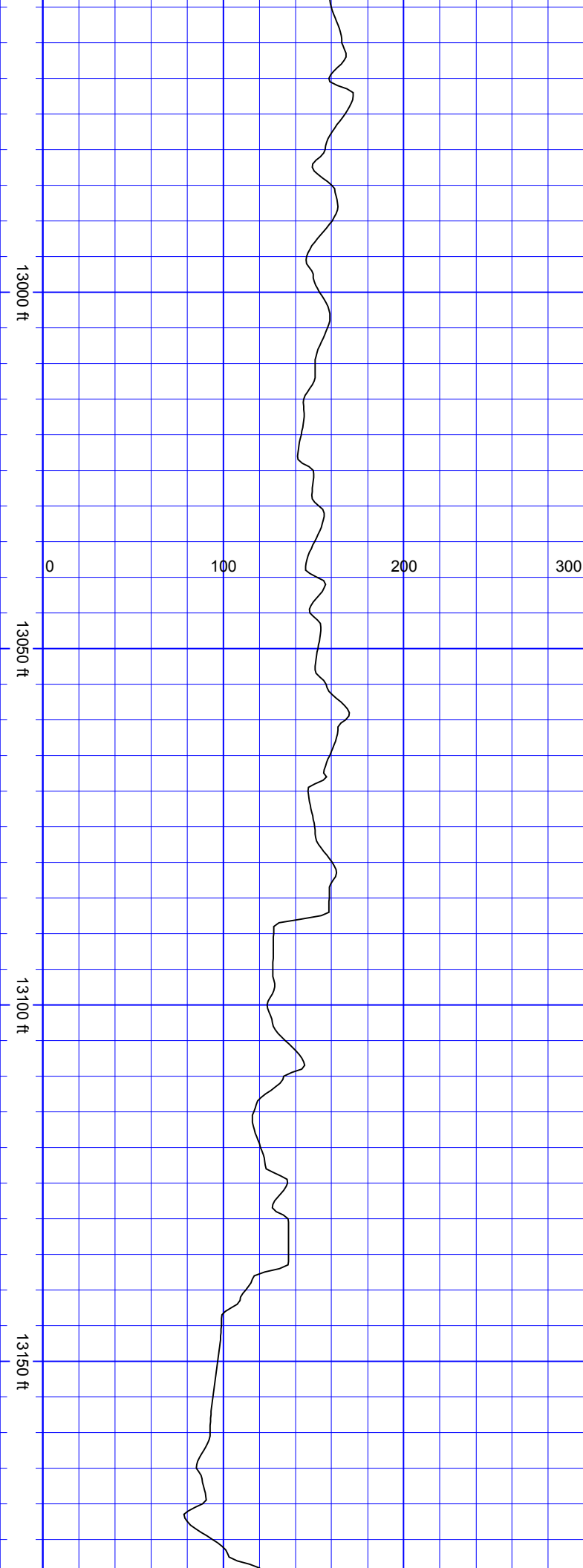




SurveyDepth:12777
TVD:7172.59 Inc:90.22
Azi:0.44
VertSec:4977.53

SurveyDepth:12872
TVD:7172.12 Inc:90.35
Azi:0.17
VertSec:5071.66

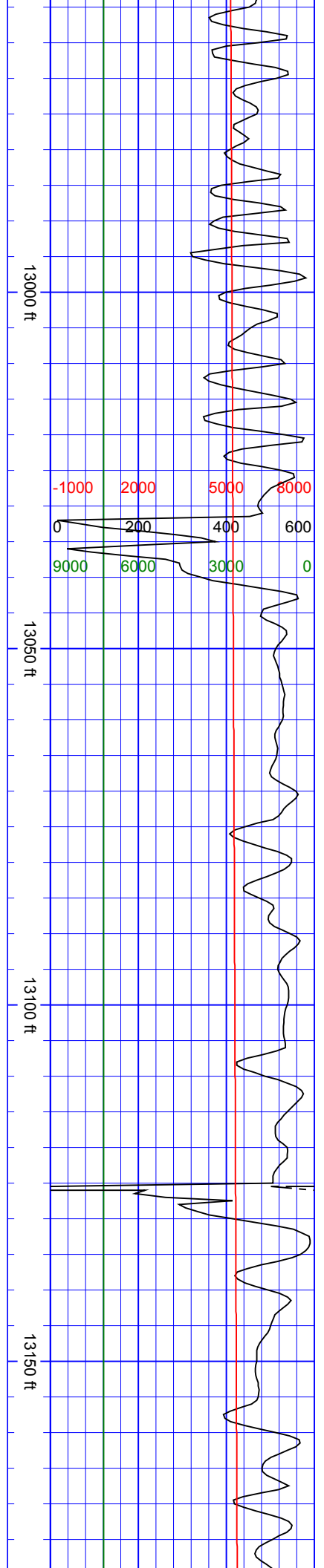


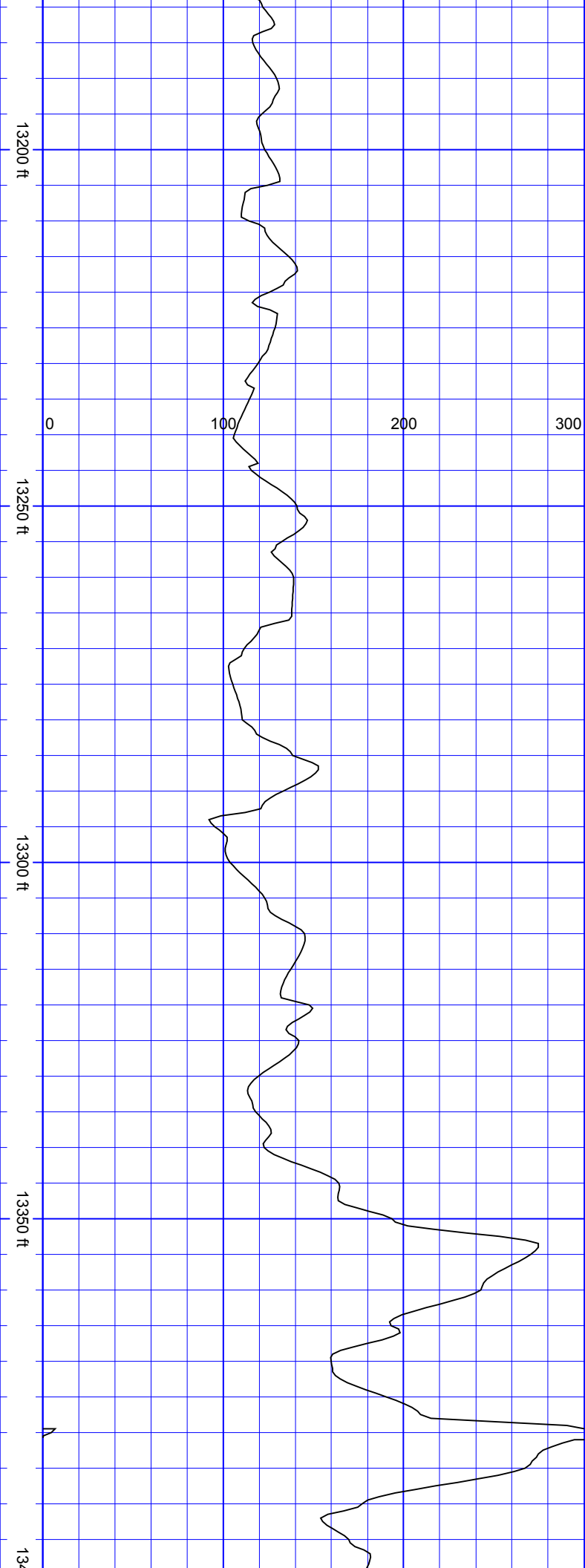


SurveyDepth:12967
TVD:7171.72 Inc:90.13
Azi:359.82
VertSec:5165.85

SurveyDepth:13061
TVD:7171.62 Inc:90
Azi:0.09
VertSec:5259.05

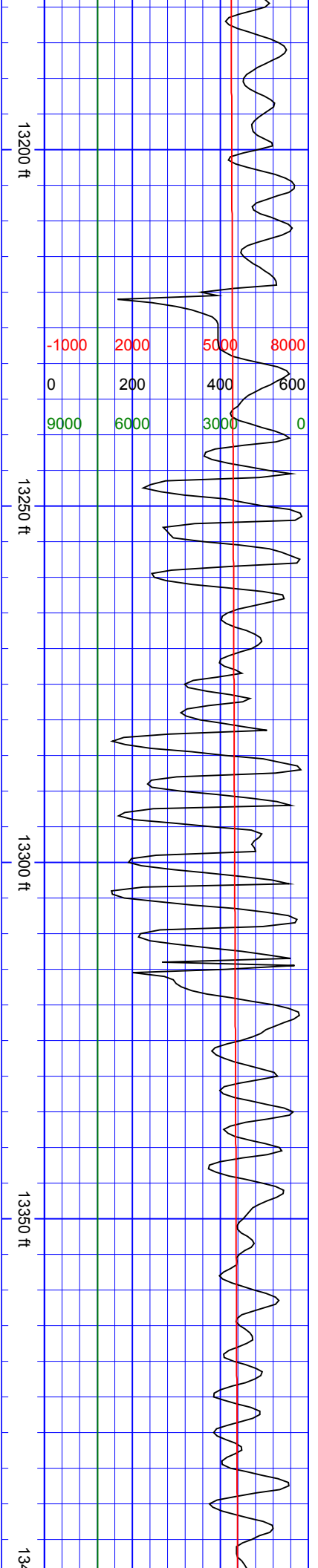
SurveyDepth:13155
TVD:7172.05 Inc:89.47
Azi:0.17
VertSec:5352.22

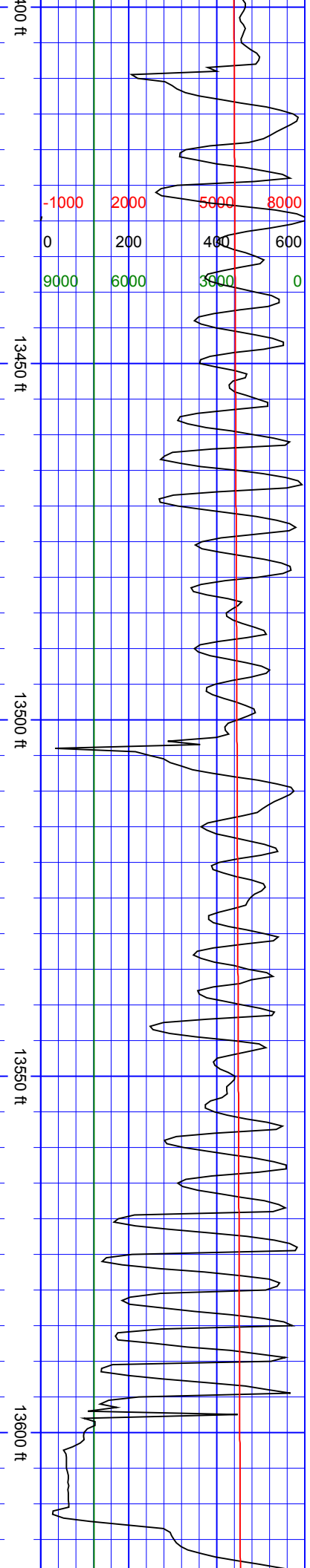




SurveyDepth:13250
TVD:7173.51 Inc:88.77
Azi:360 VertSec:5446.38

SurveyDepth:13344
TVD:7175.74 Inc:88.51
Azi:0.09
VertSec:5539.54

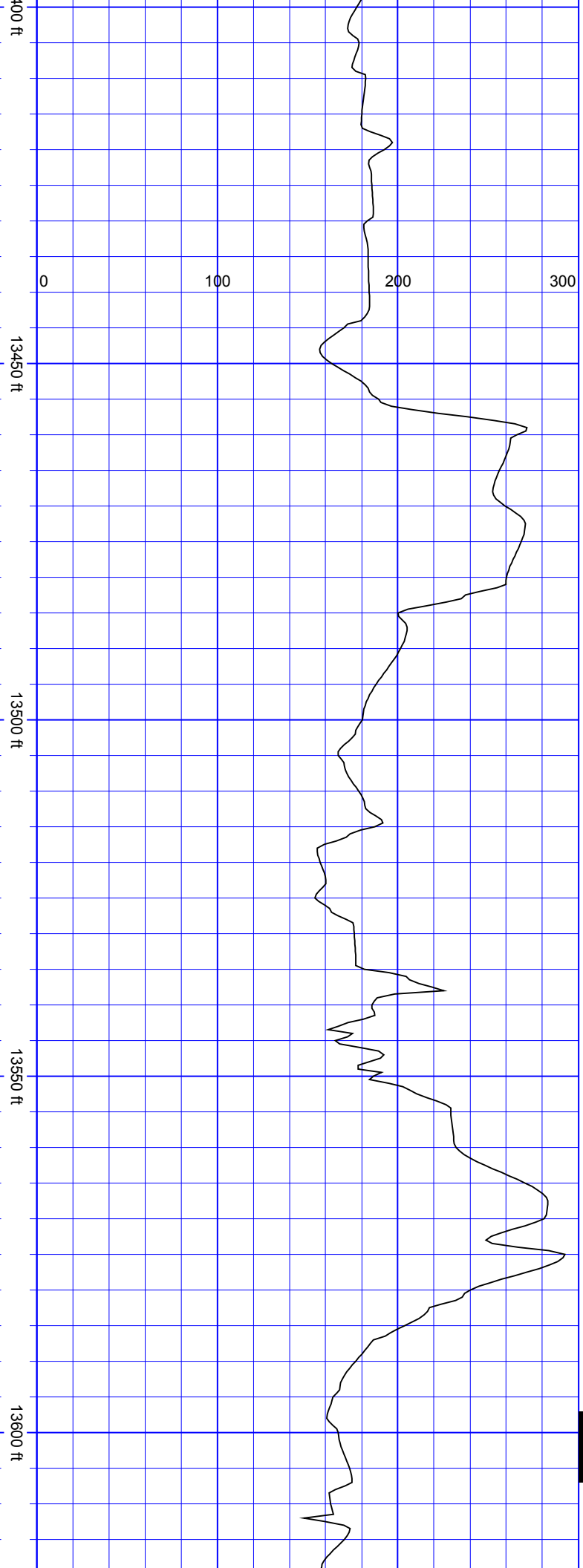


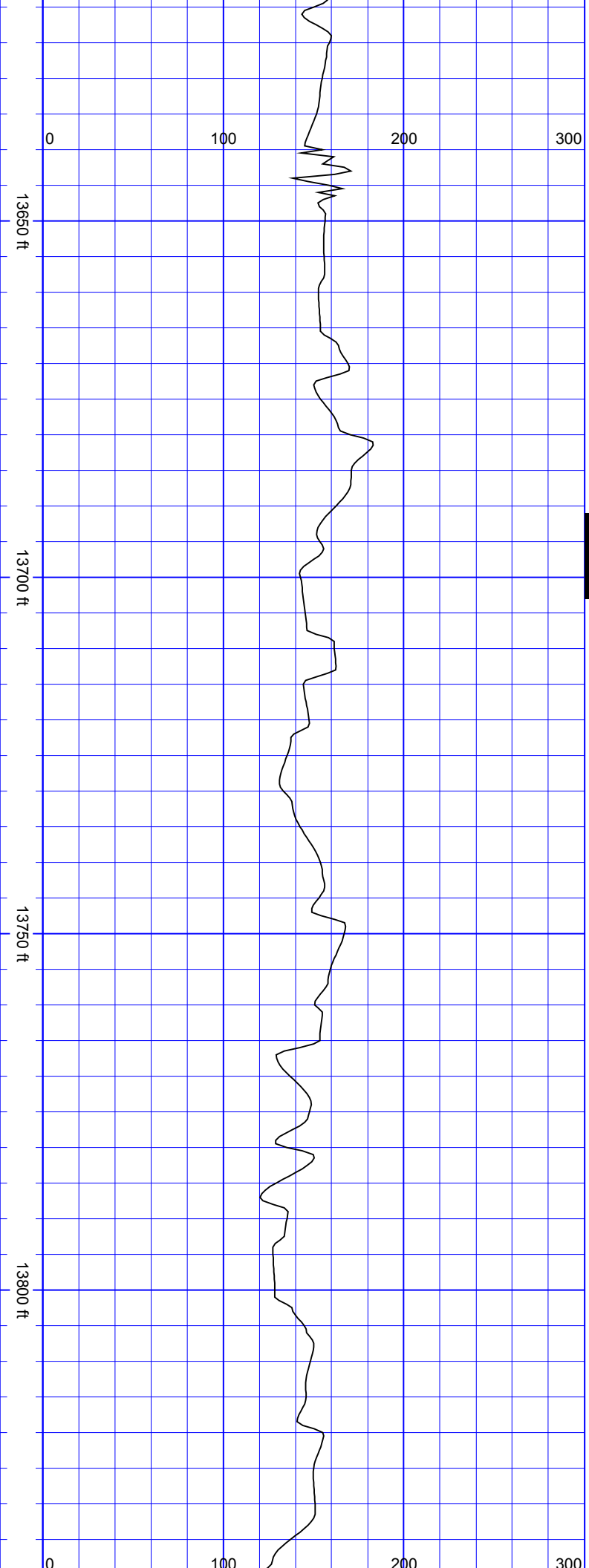


SurveyDepth:13438
TVD:7178.15 Inc:88.55
Azi:359.82
VertSec:5632.72

SurveyDepth:13533
TVD:7180.92 Inc:88.11
Azi:359.74
VertSec:5726.92

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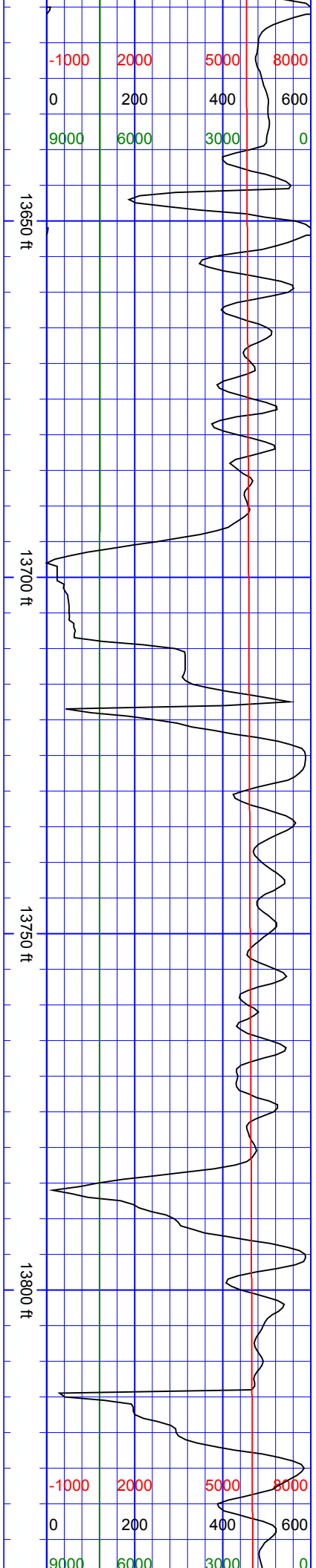


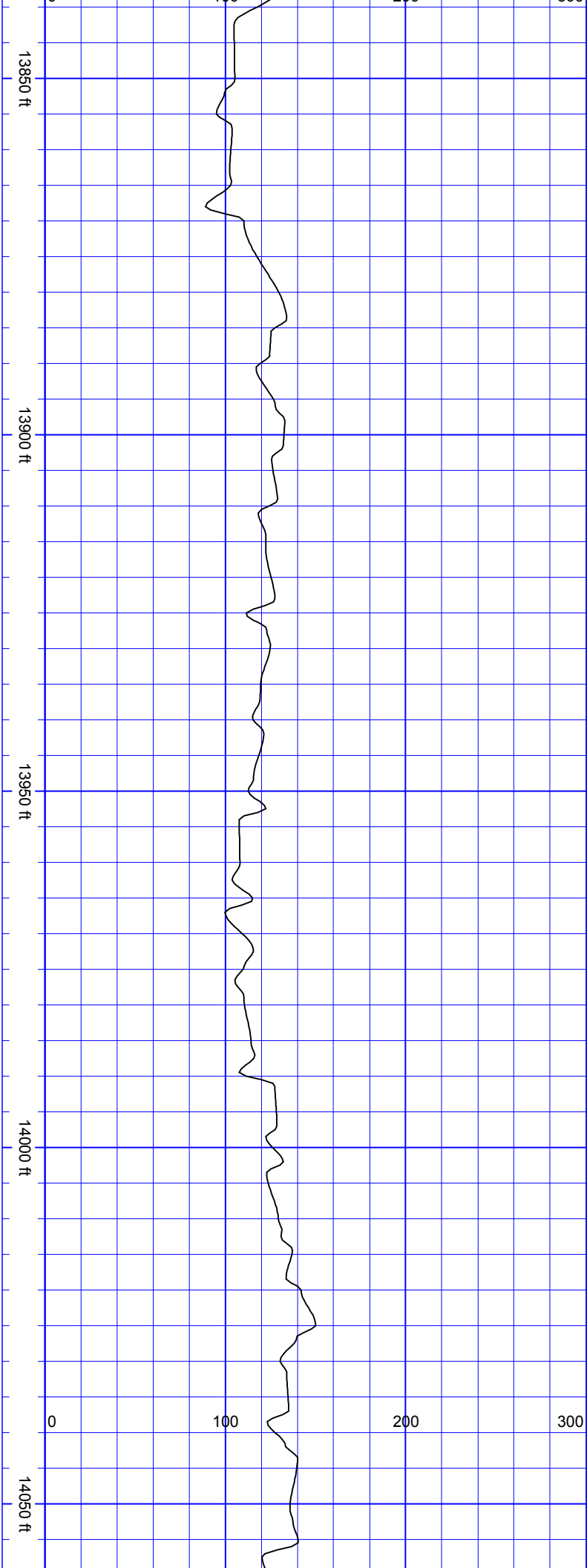
SurveyDepth:13627
TVD:7183.3 Inc:88.99
Azi:1.93
VertSec:5819.89

SurveyDepth:13722
TVD:7183.99 Inc:90.18
Azi:0.88
VertSec:5913.74

SurveyDepth:13816
TVD:7184.09 Inc:89.69
Azi:0.97
VertSec:6006.73

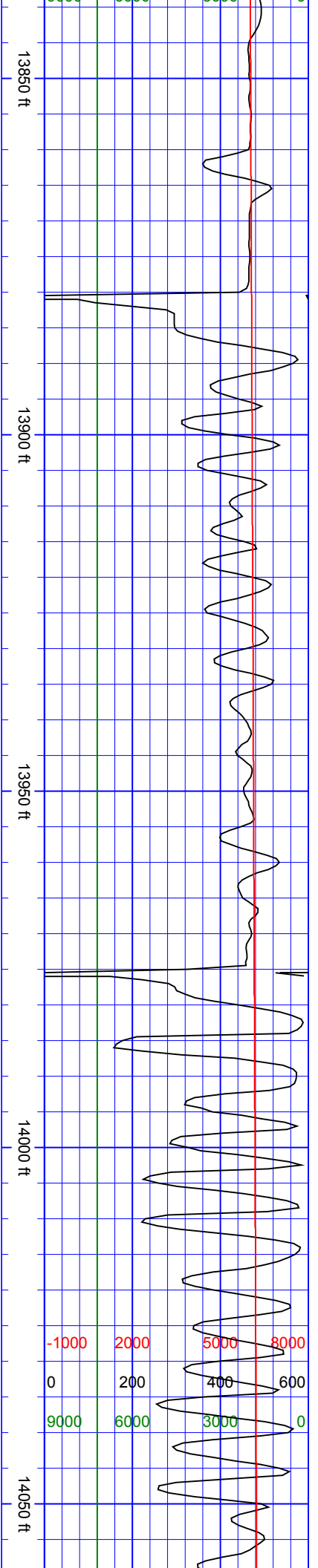
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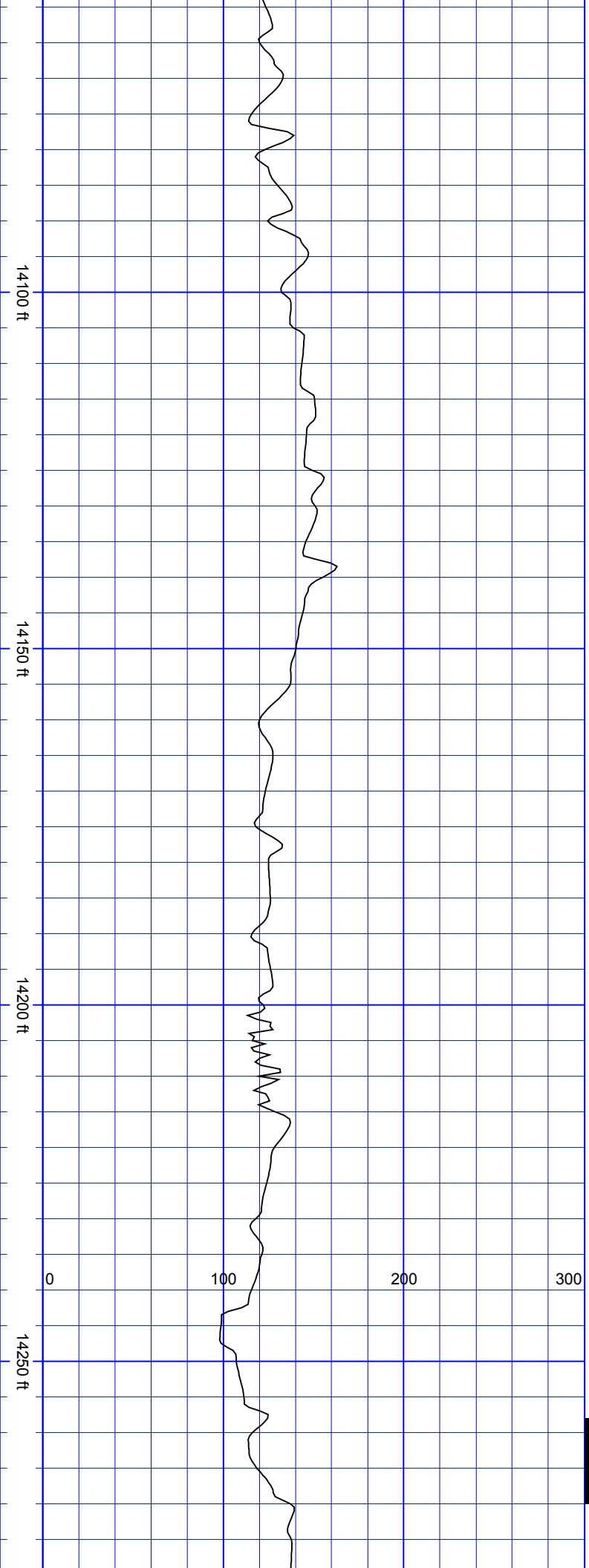




SurveyDepth:13910
TVD:7184.74 Inc:89.52
Azi:0.61
VertSec:6099.75

SurveyDepth:14005
TVD:7185.61 Inc:89.43
Azi:0.53 VertSec:6193.8

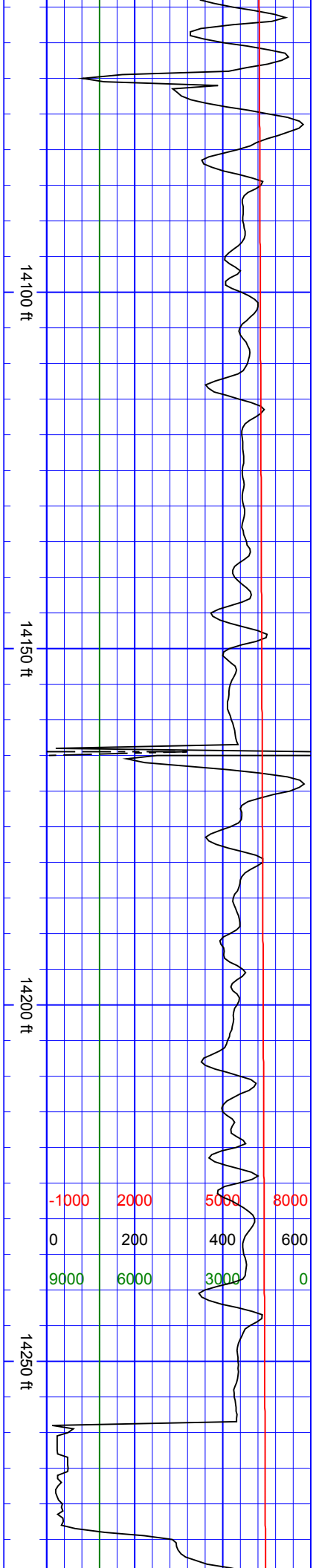


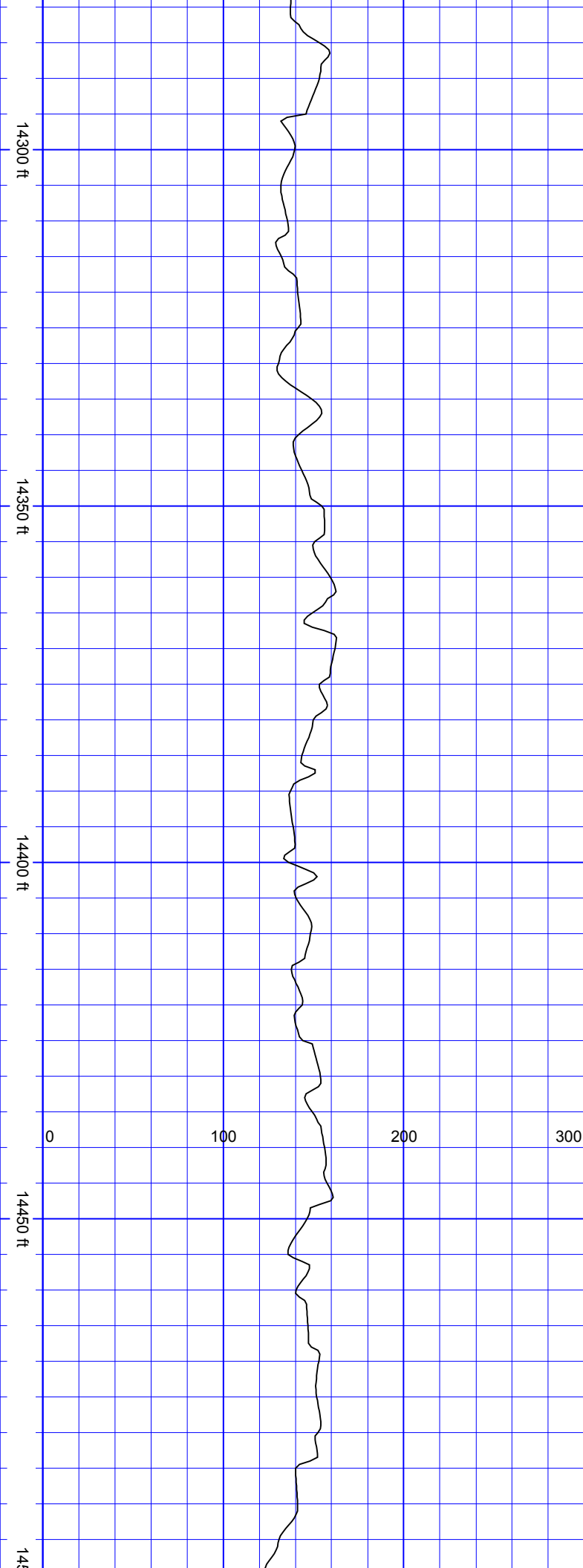


SurveyDepth:14100
TVD:7186.77 Inc:89.17
Azi:0.44
VertSec:6287.88

SurveyDepth:14194
TVD:7188.25 Inc:89.03
Azi:0.7 VertSec:6380.94

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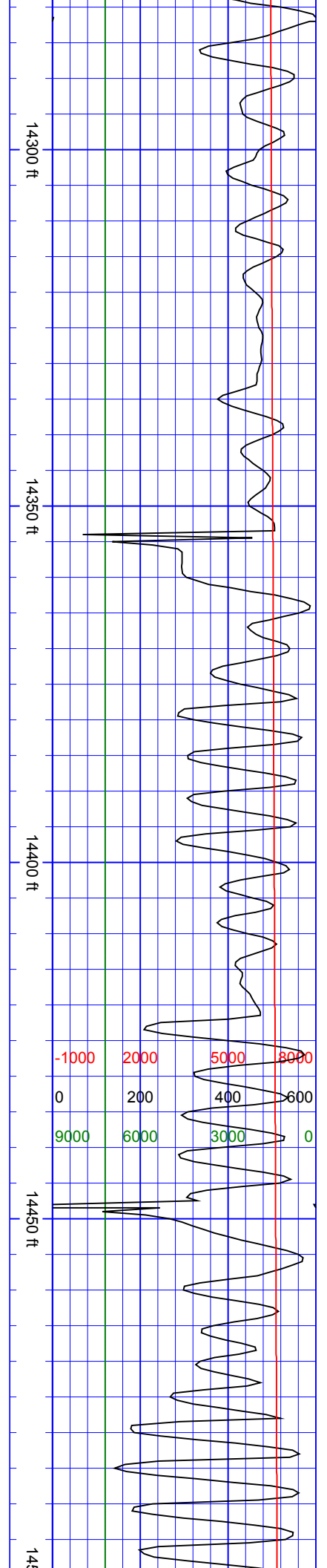


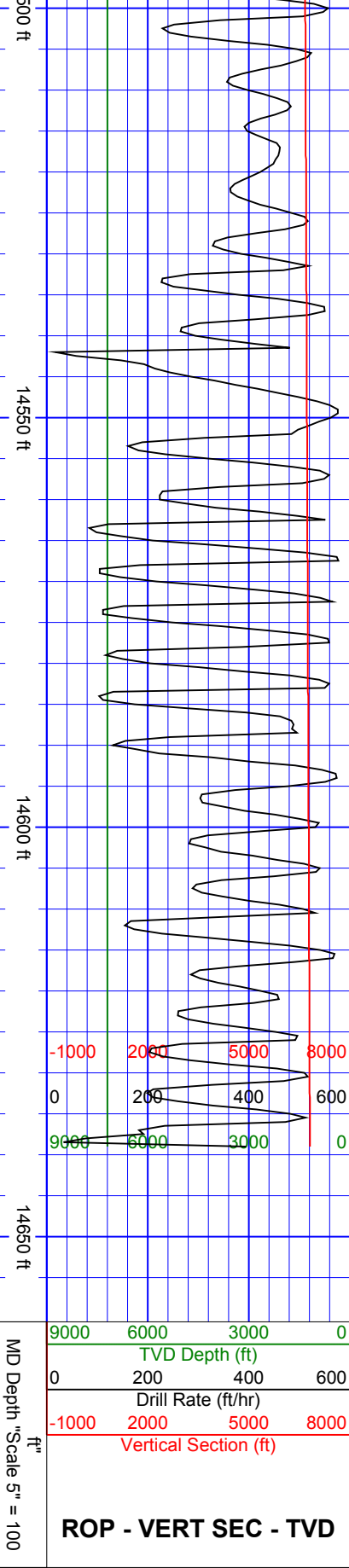


SurveyDepth:14289
TVD:7189.02 Inc:90.04
Azi:359.56
VertSec:6475.09

SurveyDepth:14383
TVD:7189.14 Inc:89.82
Azi:359.21
VertSec:6568.42

SurveyDepth:14478
TVD:7189.62 Inc:89.6
Azi:359.3
VertSec:6662.76





SurveyDepth:14572
TVD:7190.49 Inc:89.34
Azi:359.3
VertSec:6756.09

Extrapolation to Bit
SurveyDepth:14639
TVD:7191.26 Inc:89.34
Azi:359.3
VertSec:6822.62

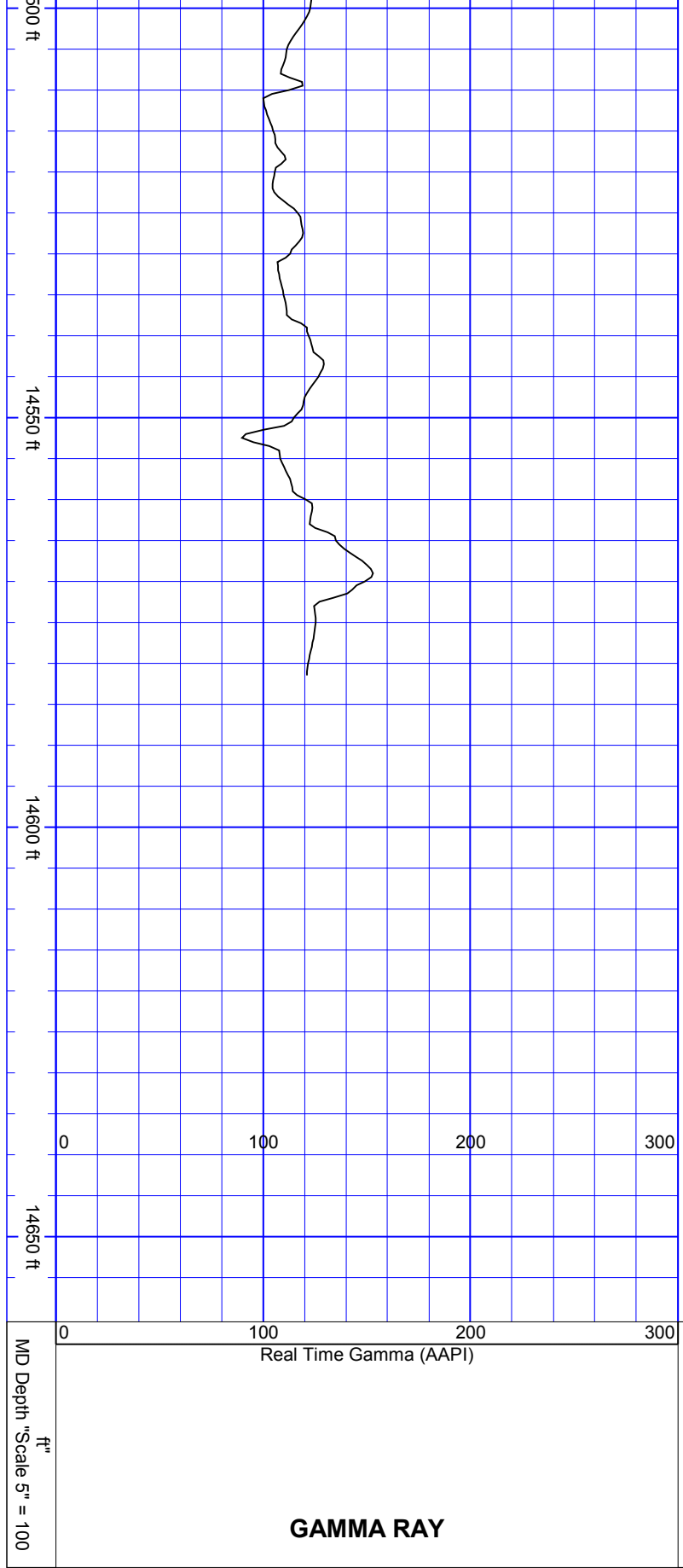
July 31, 2018

Slide - Rotate

Directional Survey

Date

ROP - VERT SEC - TVD



GAMMA RAY