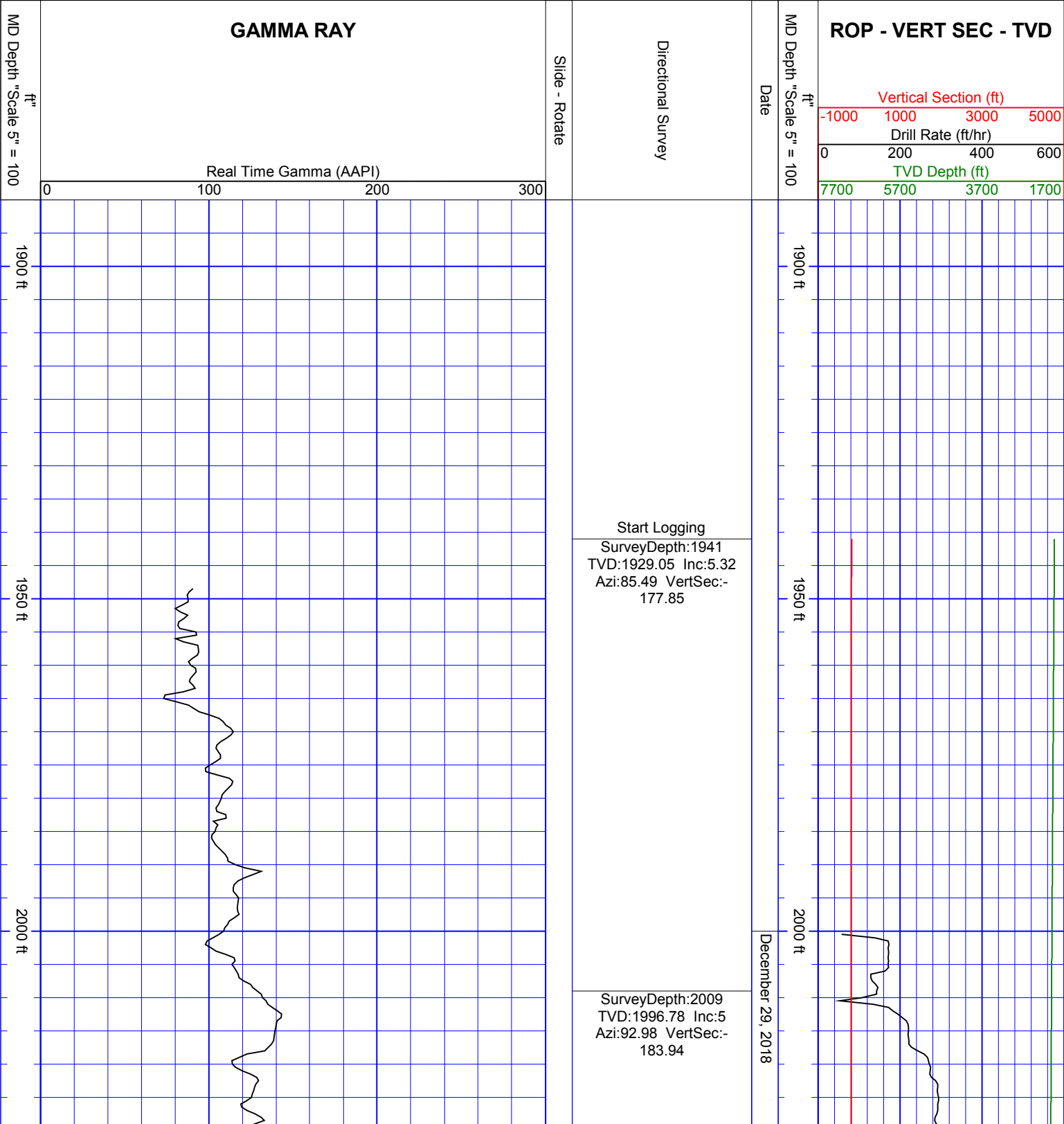
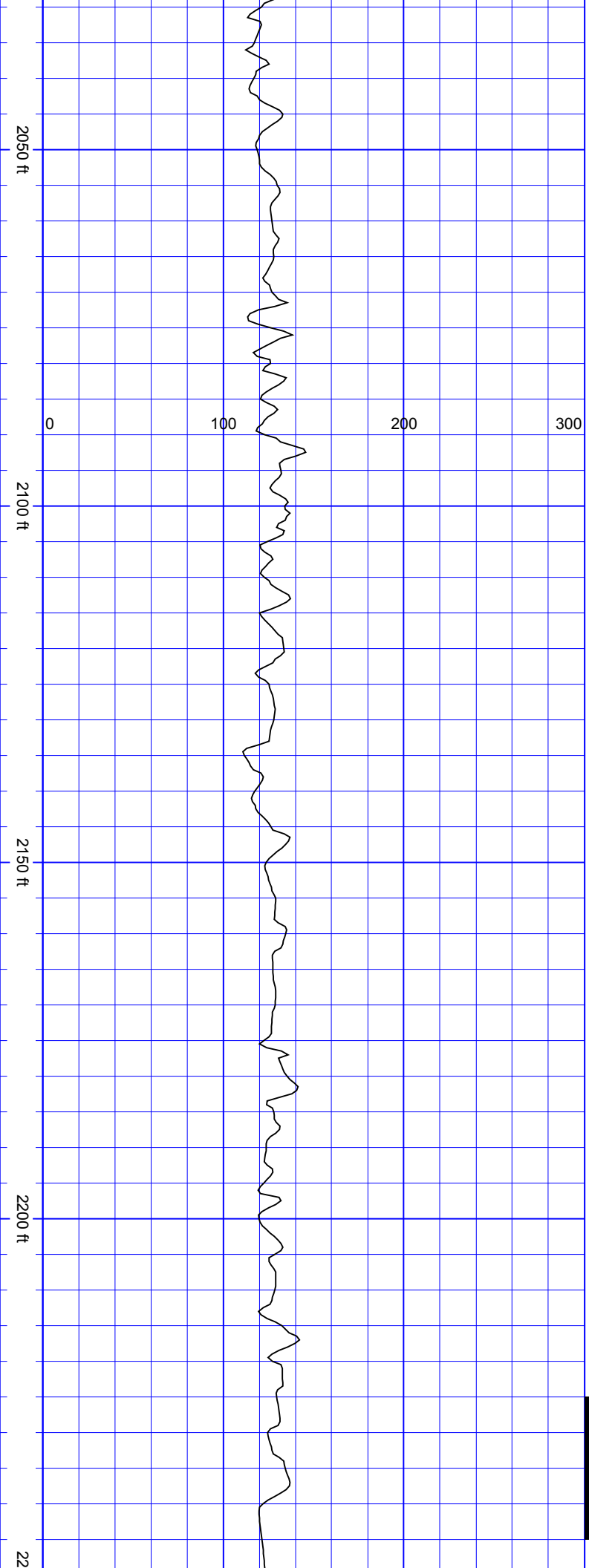




Interpretations of this data by Cathedral Energy Services will be of best judgment as to correctness. Cathedral Energy Services cannot and does not guarantee the accuracy or correctness of interpretations or any surveys derived therefrom. Cathedral Energy Services makes no warranties of performance,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

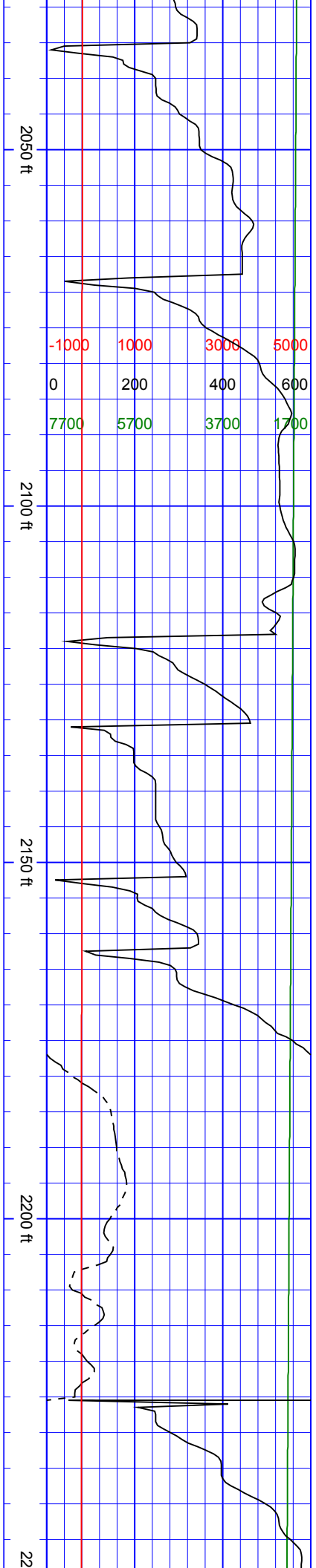




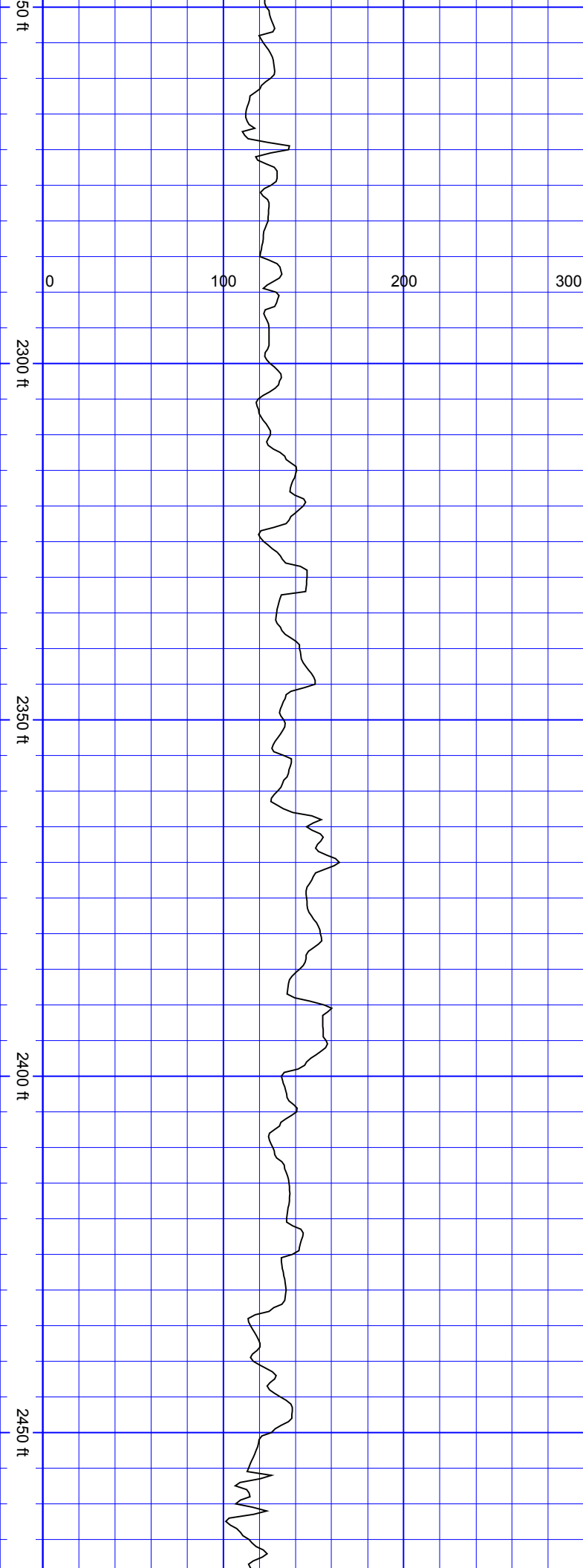
SurveyDepth:2072  
TVD:2059.54 Inc:4.88  
Azi:93.61 VertSec:-  
189.36

SurveyDepth:2166  
TVD:2153 Inc:7.38  
Azi:97.79 VertSec:-  
199.38

SSSSSSSS



Red	Orange	Green	Blue
-1000	1000	3000	5000
0	200	400	600
7700	5700	3700	1700



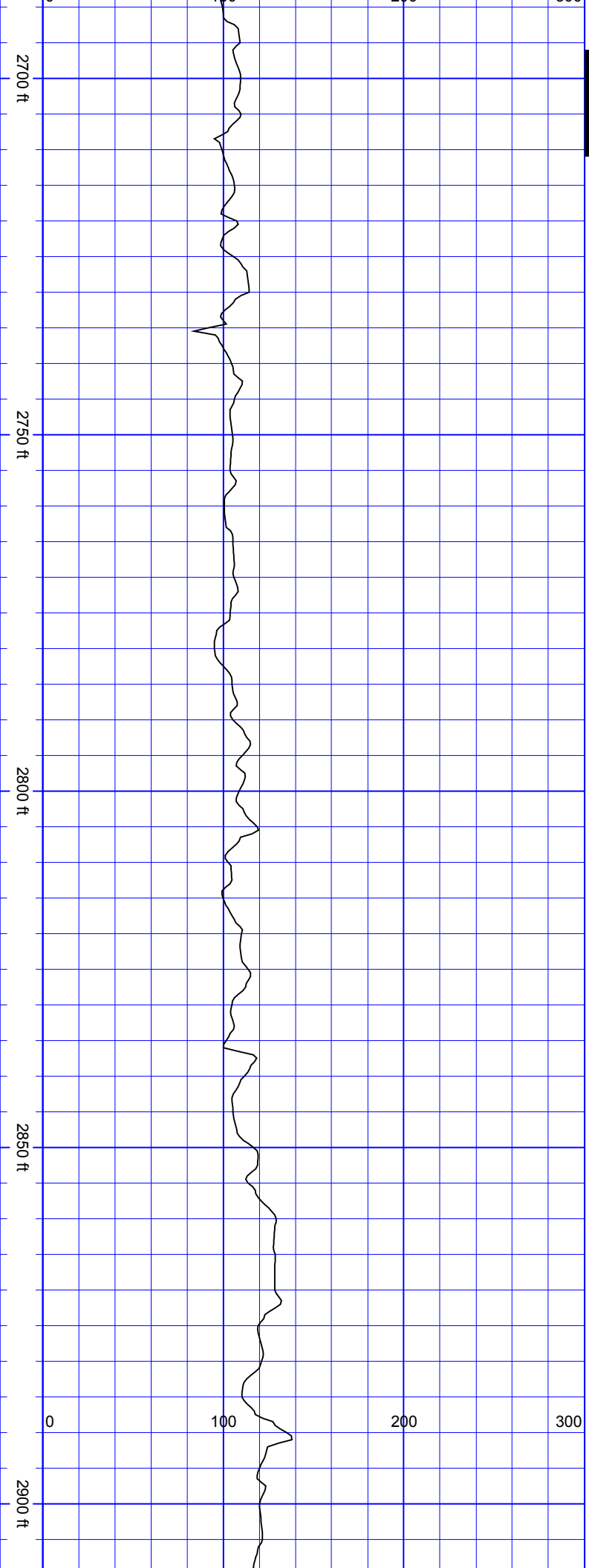
SurveyDepth:2260  
TVD:2246.32 Inc:6.38  
Azi:96.44 VertSec:-210.6

SurveyDepth:2354  
TVD:2339.63 Inc:7.51  
Azi:98.24 VertSec:-221.93

SurveyDepth:2448  
TVD:2432.86 Inc:7.25  
Azi:81.97 VertSec:-233.87





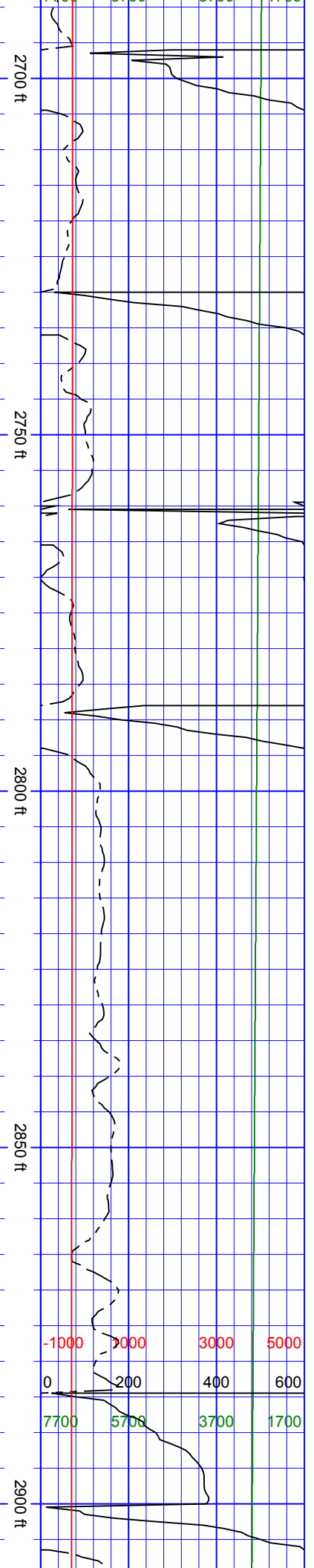


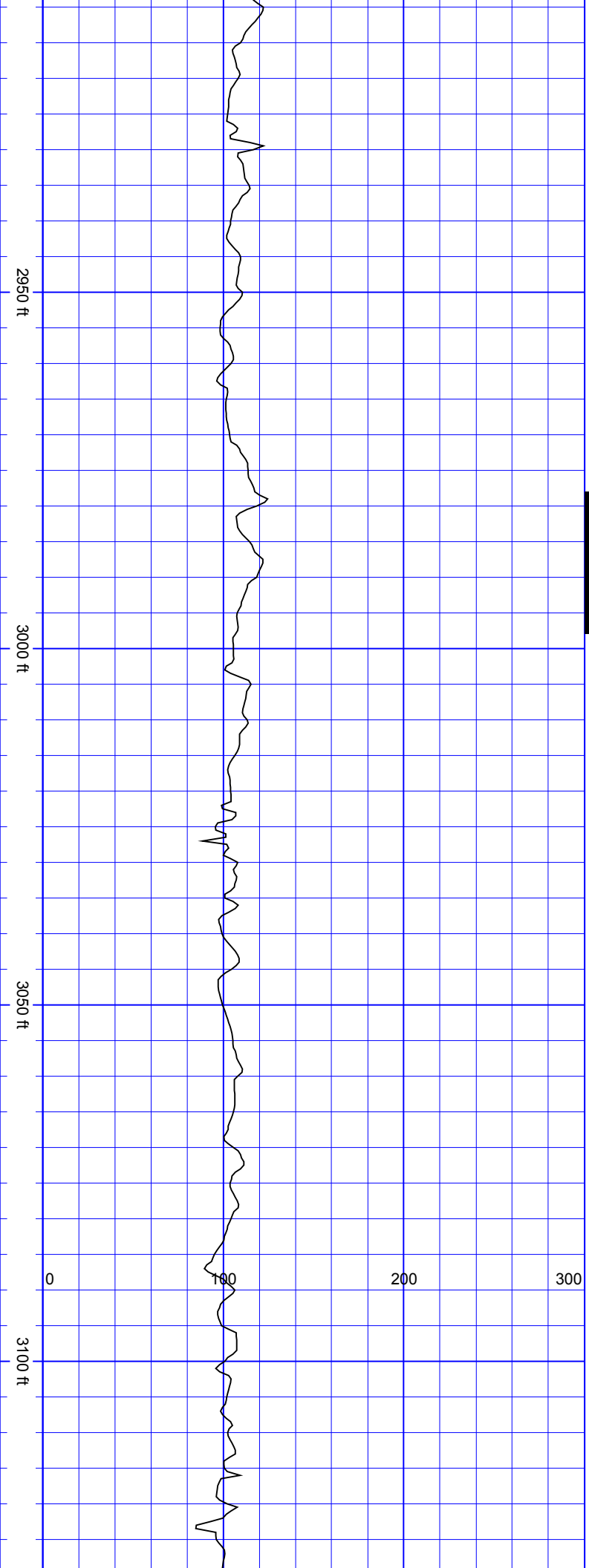
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SurveyDepth:2701  
TVD:2683.37 Inc:7.64  
Azi:81.5 VertSec:-268.73

SurveyDepth:2732  
TVD:2714.1 Inc:7.4  
Azi:81.62 VertSec:-272.7

SurveyDepth:2826  
TVD:2807.44 Inc:6.25  
Azi:81.24 VertSec:-283.66



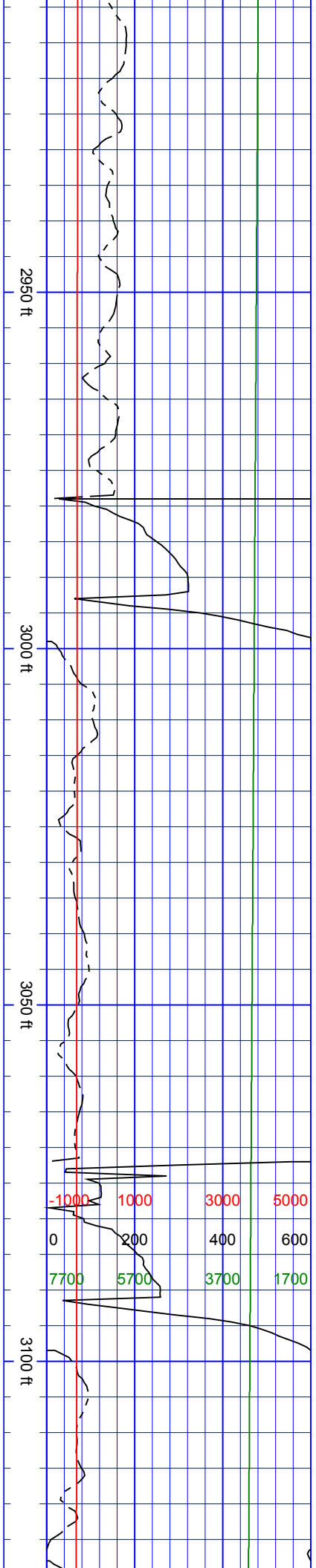


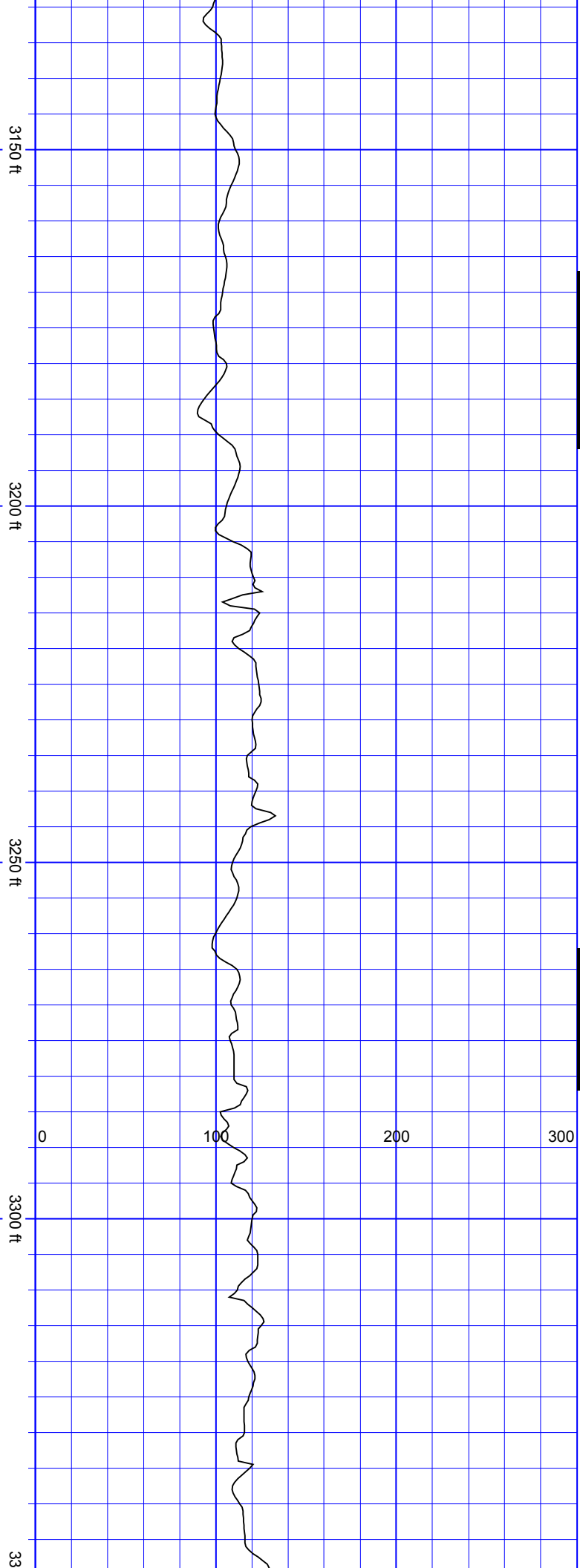
SSSSSSSS

SurveyDepth:2920  
TVD:2900.85 Inc:6.53  
Azi:90.57 VertSec:-  
294.01

SurveyDepth:3015  
TVD:2995.16 Inc:7.31  
Azi:93.41 VertSec:-  
305.45

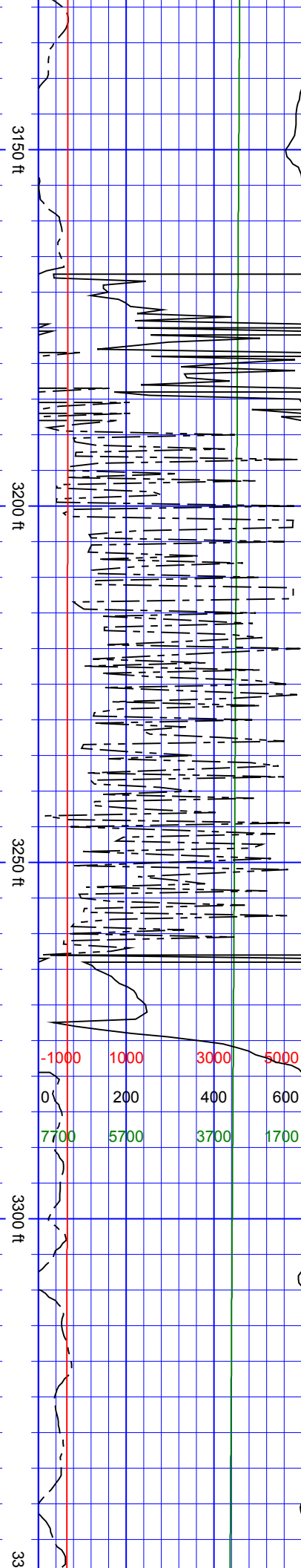
SurveyDepth:3109  
TVD:3088.39 Inc:7.36  
Azi:89.31 VertSec:-  
317.44



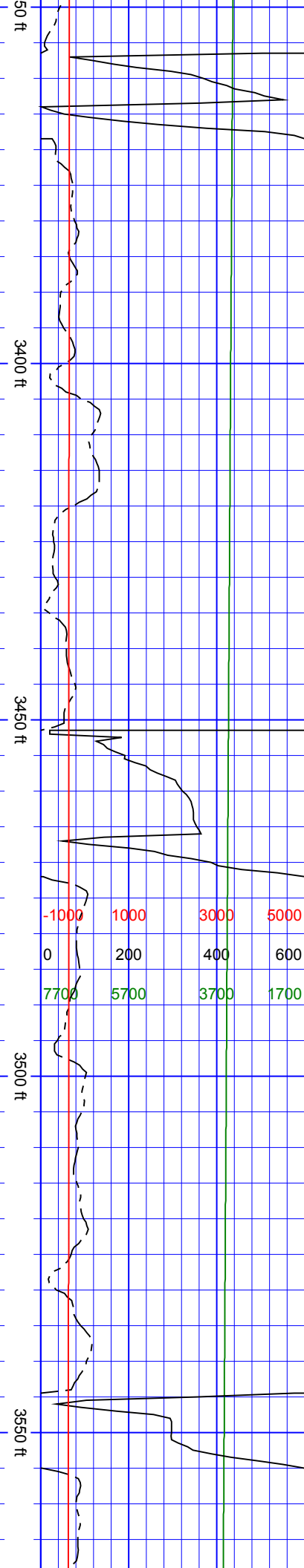


SurveyDepth:3204  
TVD:3182.63 Inc:7.19  
Azi:76.82 VertSec:-  
329.23

SurveyDepth:3298  
TVD:3275.91 Inc:7.09  
Azi:63.29 VertSec:-  
339.94



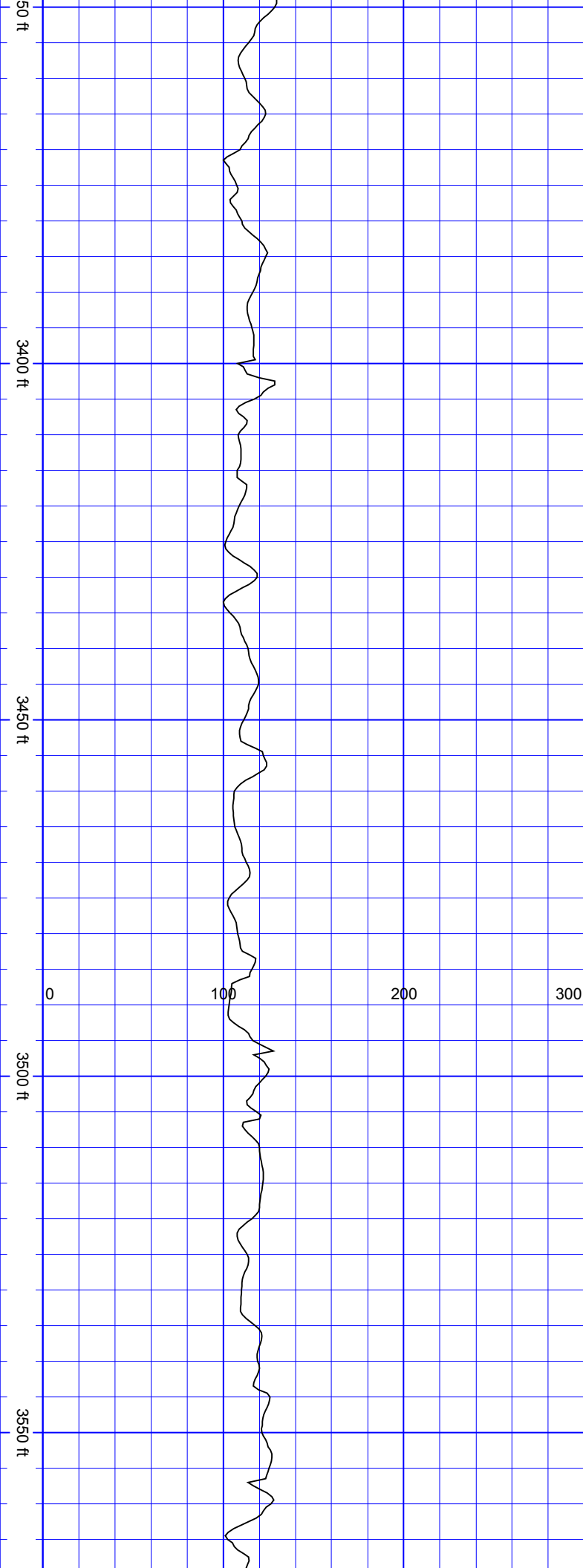


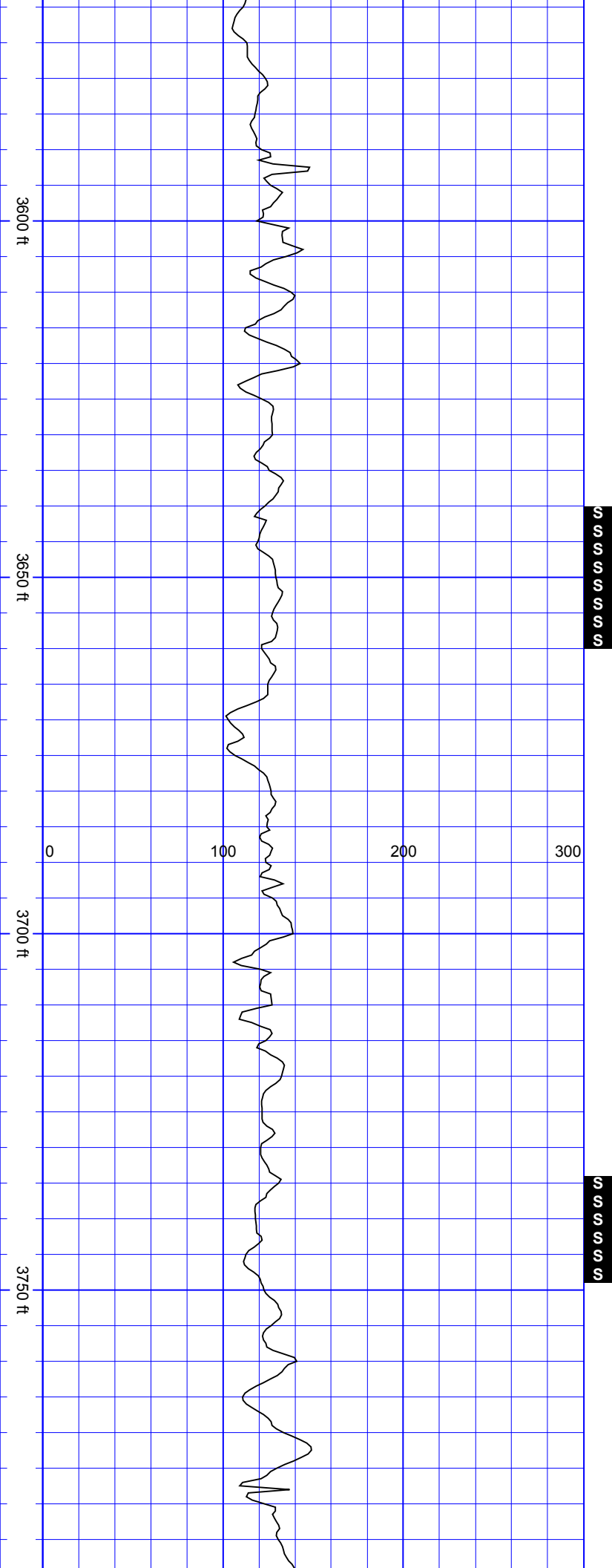


SurveyDepth:3393  
TVD:3370.28 Inc:6.16  
Azi:61.46 VertSec:-  
349.39

SurveyDepth:3487  
TVD:3463.74 Inc:6.1  
Azi:72.41 VertSec:-  
358.38

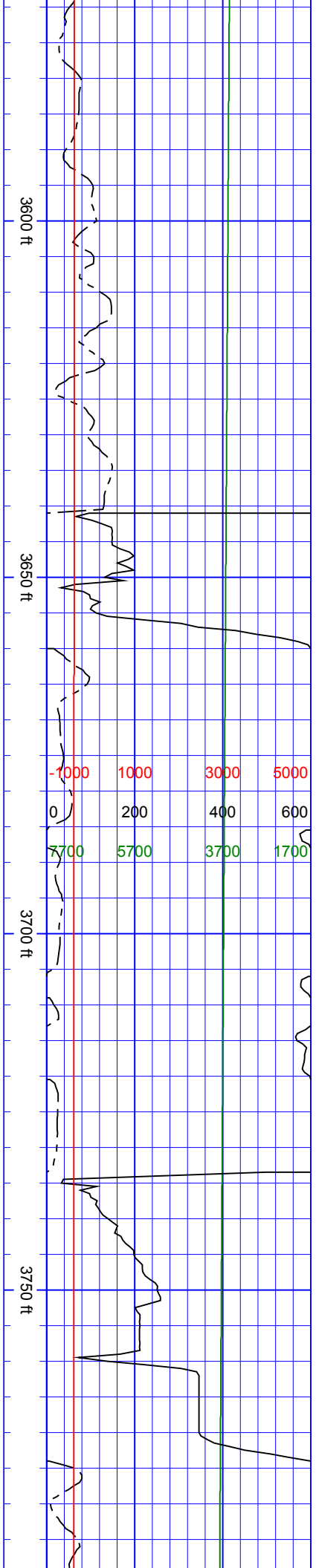
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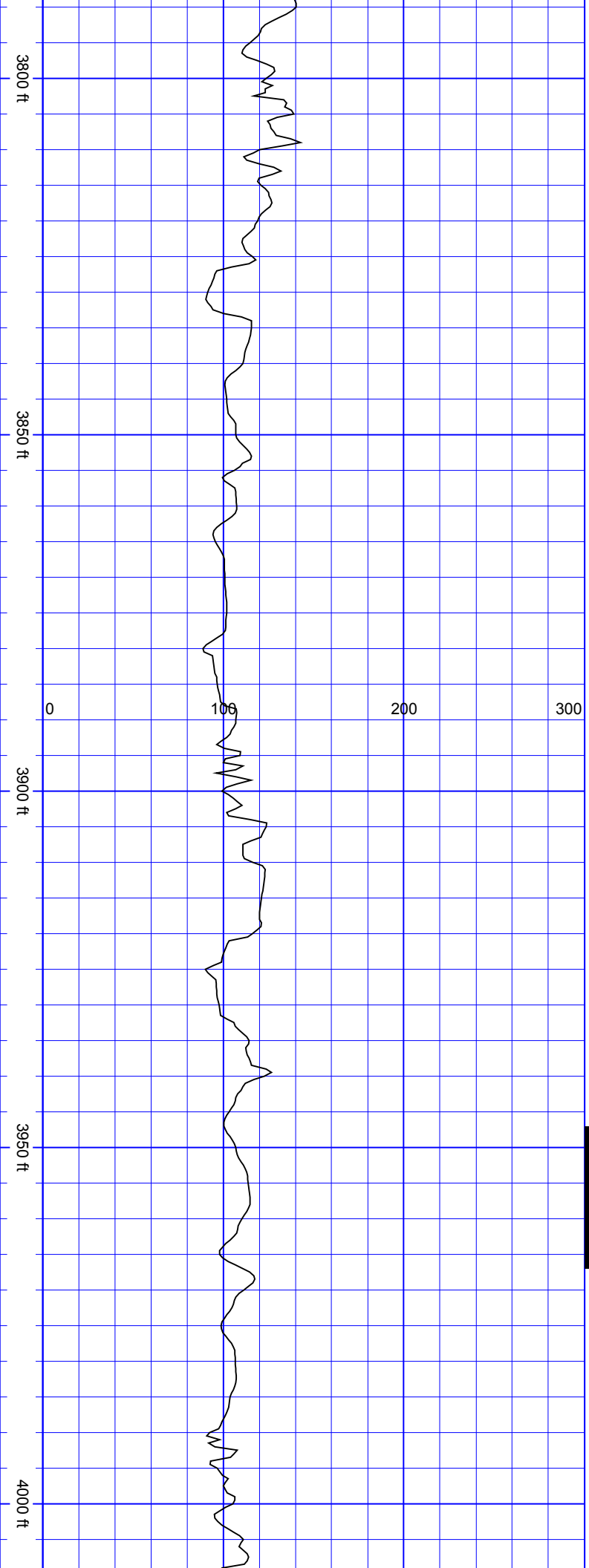




SurveyDepth:3582  
TVD:3558.29 Inc:5.06  
Azi:68.26 VertSec:-  
366.93

SurveyDepth:3676  
TVD:3651.99 Inc:4.07  
Azi:75.01 VertSec:-  
373.88



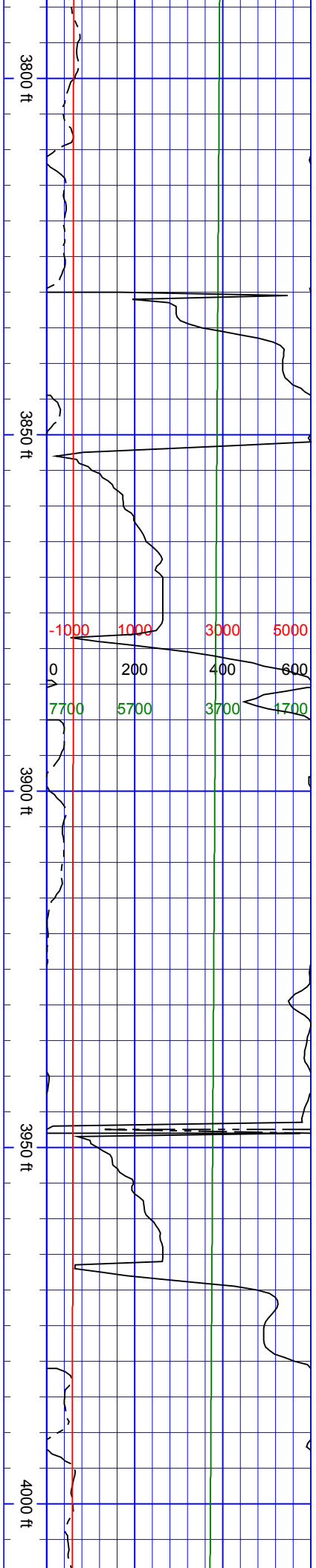


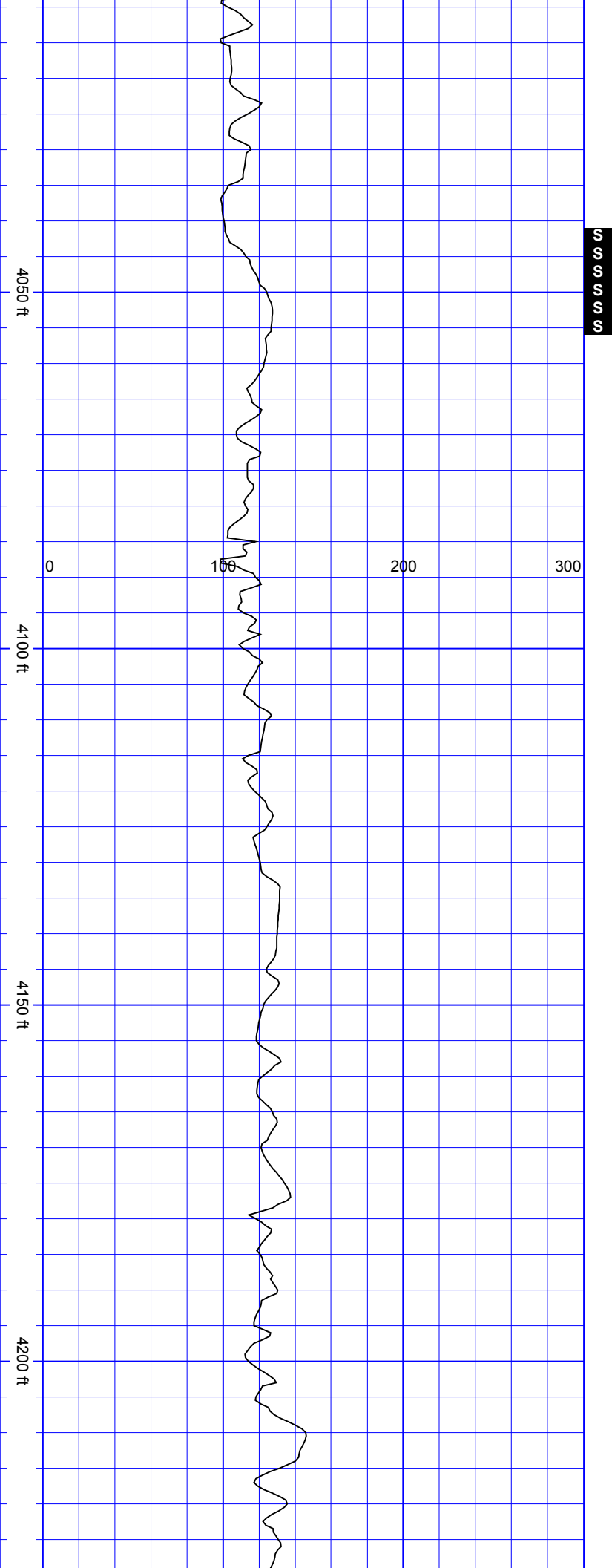
SurveyDepth:3794  
TVD:3769.63 Inc:5.01  
Azi:92.5 VertSec:-383.02

SurveyDepth:3888  
TVD:3863.03 Inc:7.85  
Azi:103.31 VertSec:-393.43

SurveyDepth:3983  
TVD:3957.05 Inc:8.67  
Azi:89.94 VertSec:-406.97

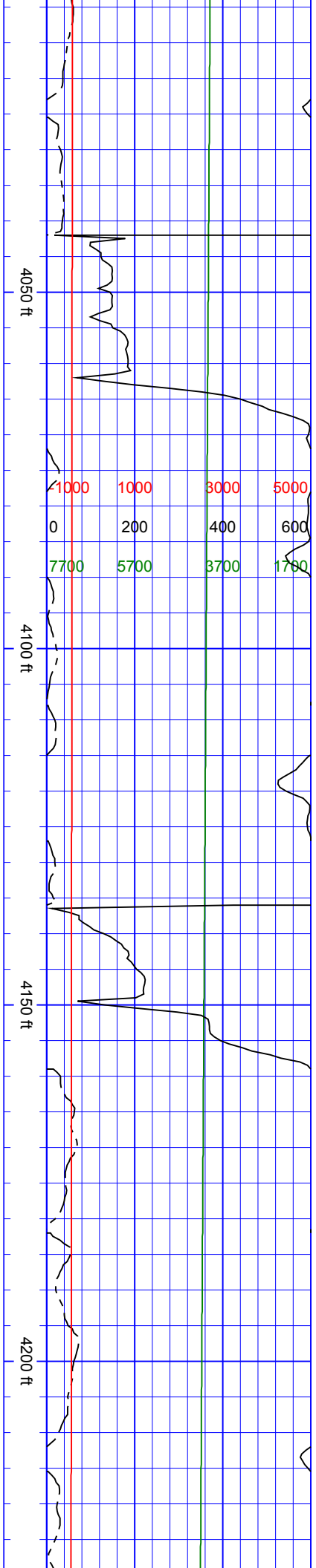
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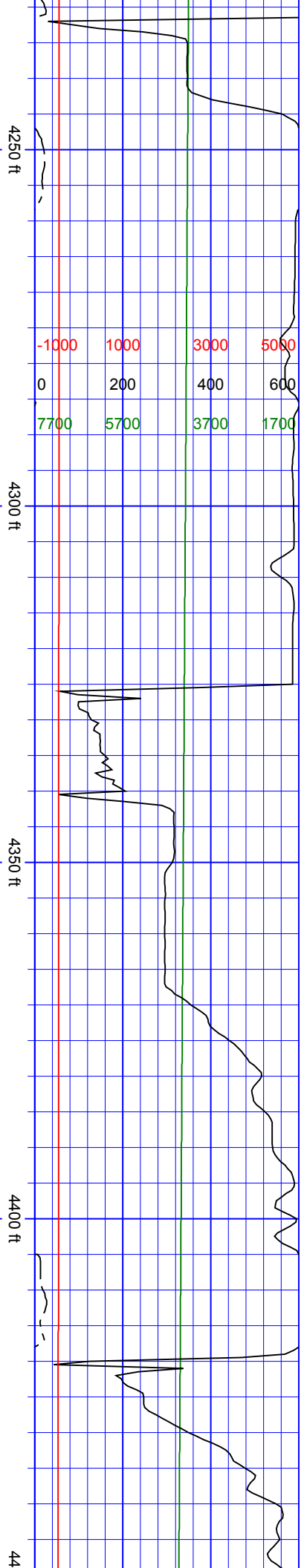




SurveyDepth:4078  
TVD:4051 Inc:8.52  
Azi:74.13 VertSec:-  
420.79

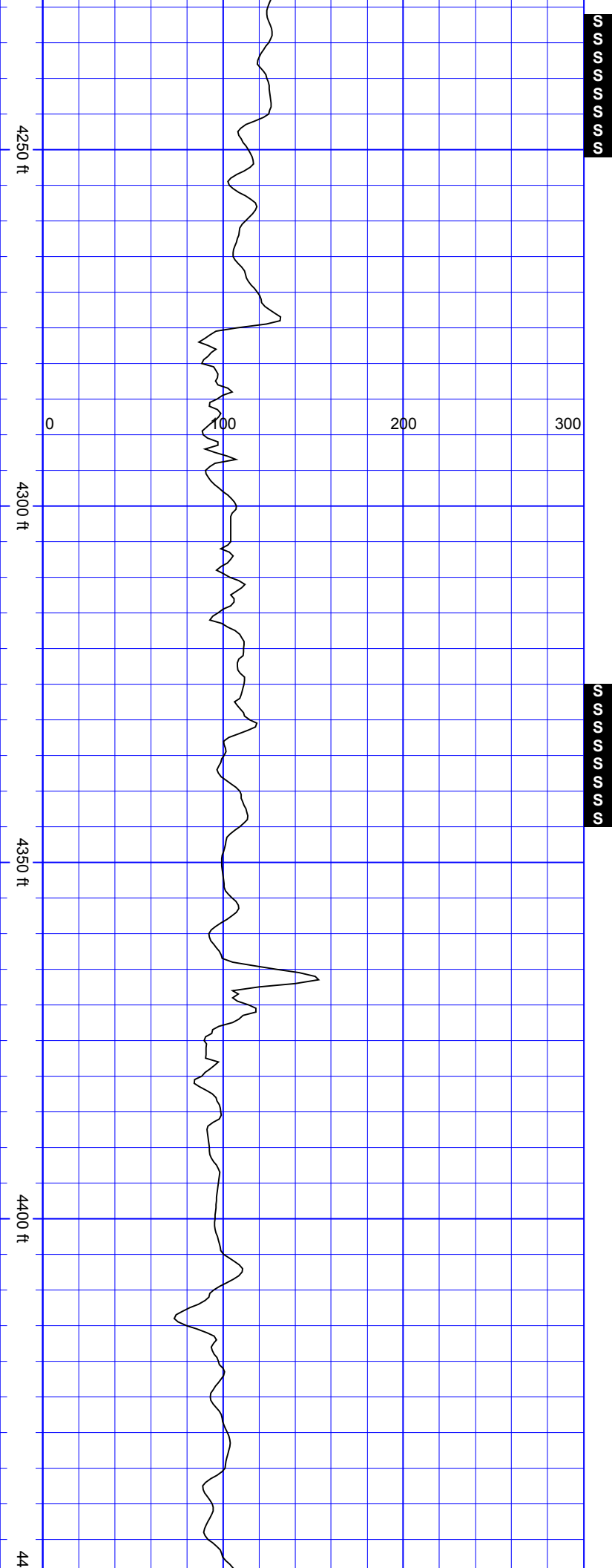
SurveyDepth:4172  
TVD:4144.01 Inc:8.2  
Azi:60.92 VertSec:-  
433.08

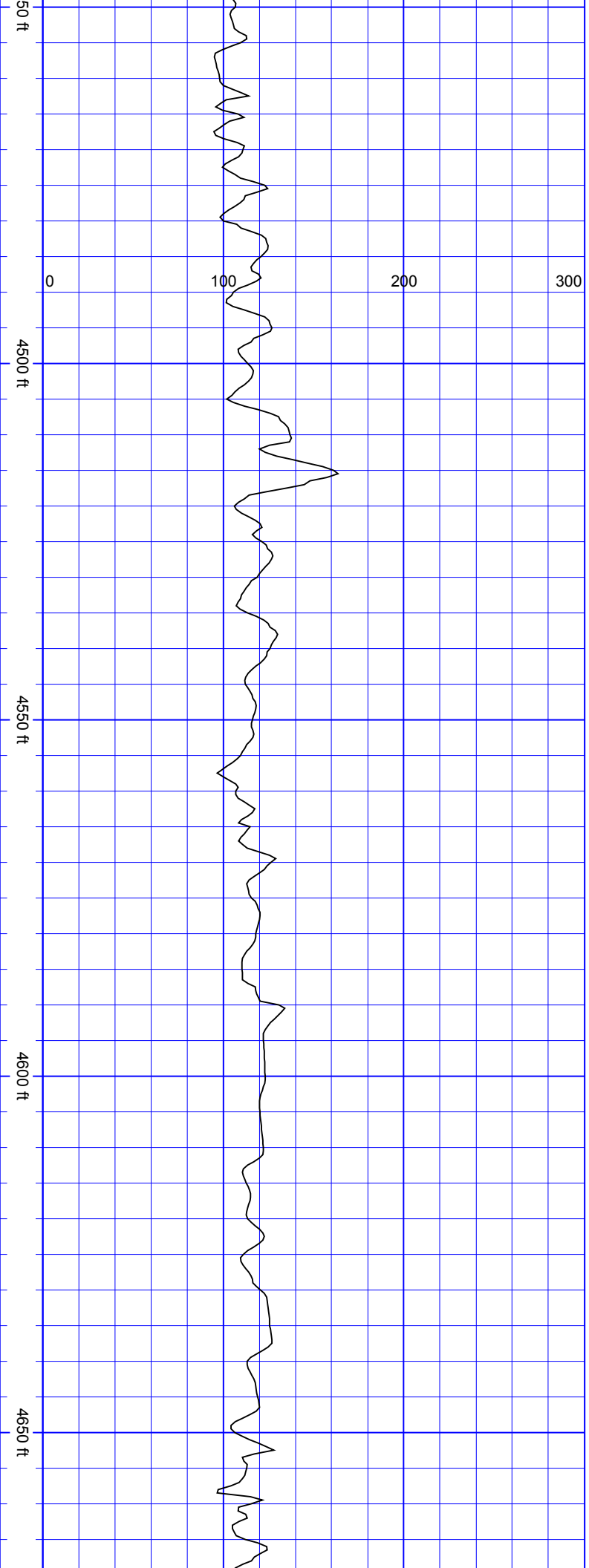




SurveyDepth:4267  
TVD:4238.22 Inc:6.51  
Azi:59.93 VertSec:-  
443.36

SurveyDepth:4362  
TVD:4332.5 Inc:7.61  
Azi:65.42 VertSec:-  
453.47

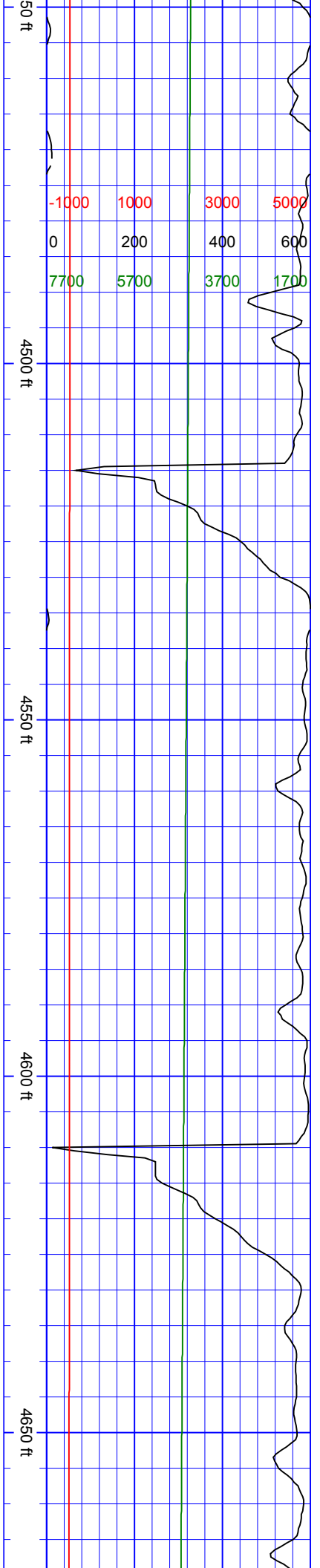


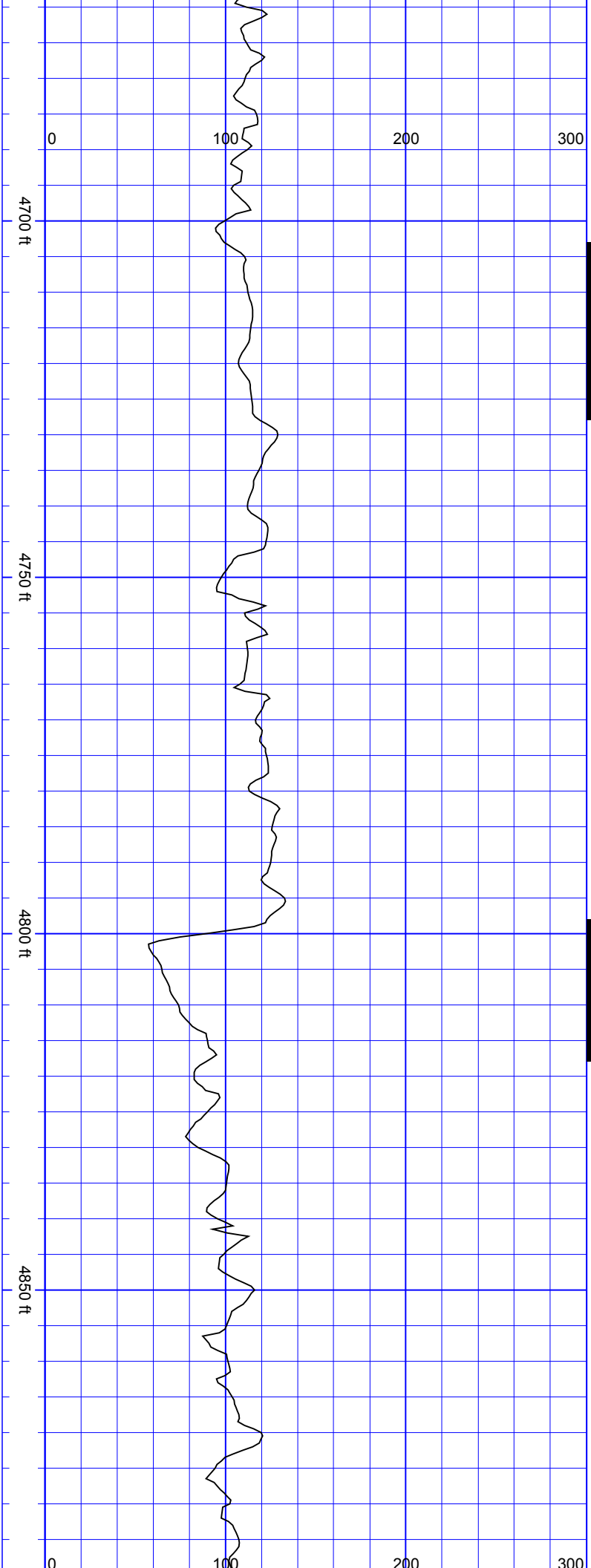


SurveyDepth:4456  
TVD:4425.74 Inc:6.98  
Azi:62.57 VertSec:-  
463.93

SurveyDepth:4550  
TVD:4519.12 Inc:6.2  
Azi:60.63 VertSec:-  
473.16

SurveyDepth:4645  
TVD:4613.64 Inc:5.35  
Azi:58.01 VertSec:-  
481.14



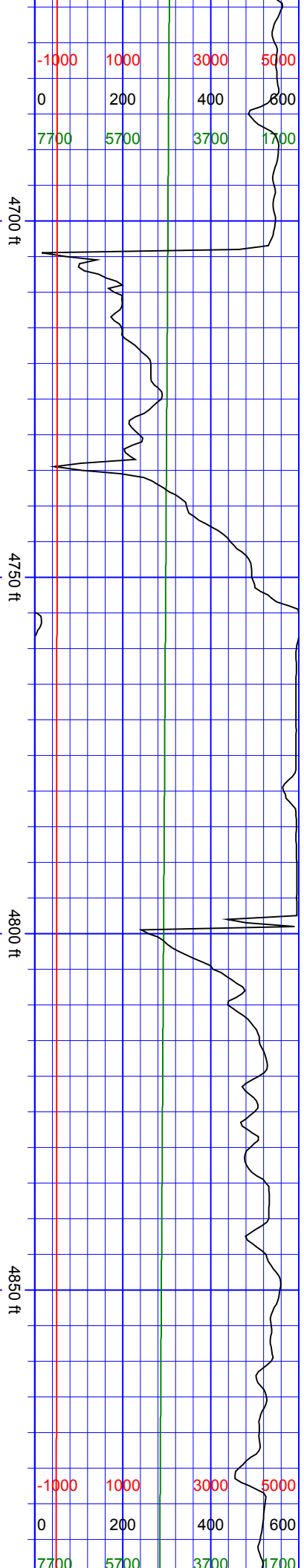


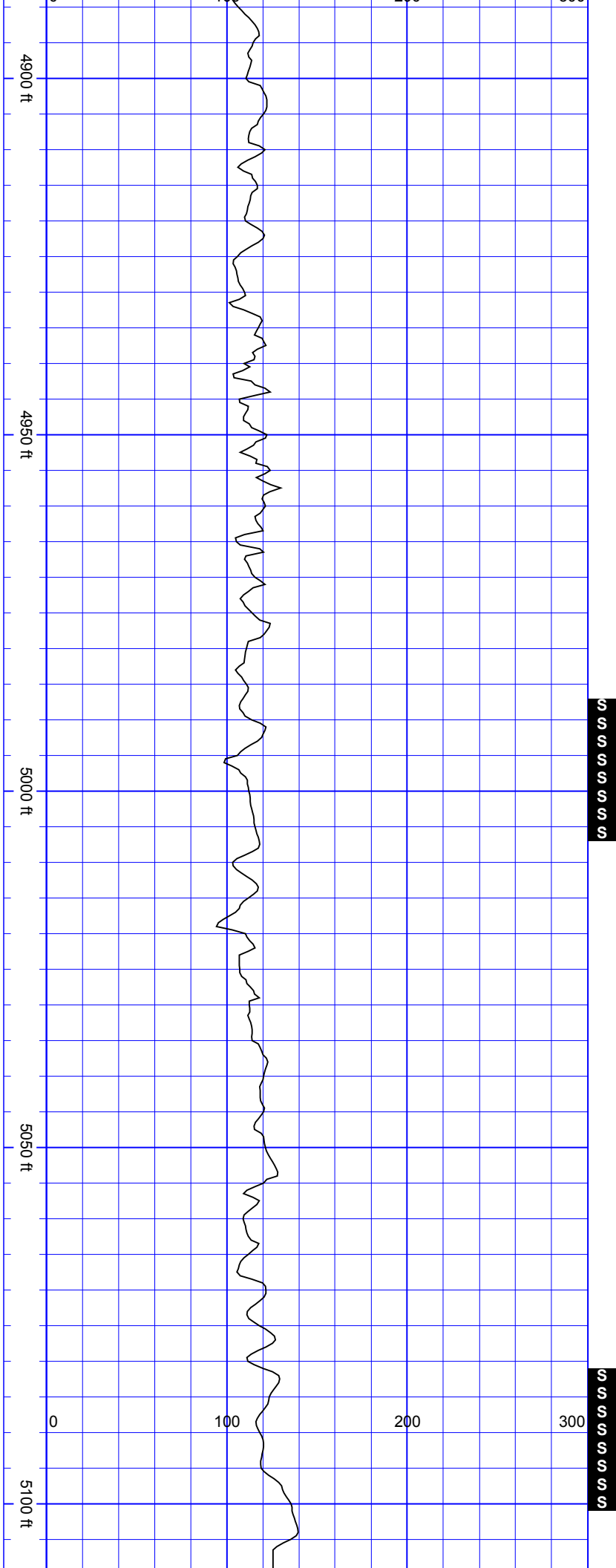
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SurveyDepth:4740  
TVD:4708.11 Inc:6.72  
Azi:74.38 VertSec:-  
490.06

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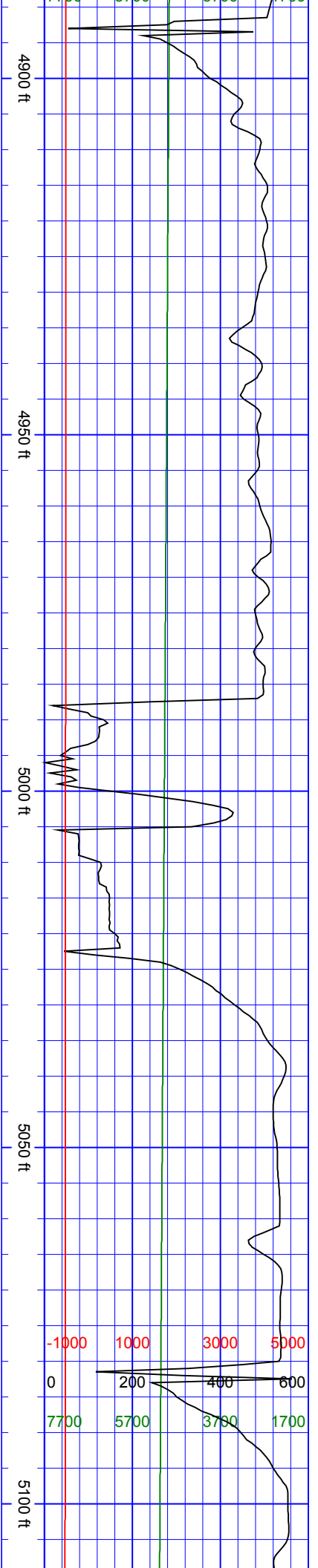
SurveyDepth:4834  
TVD:4801.59 Inc:5.43  
Azi:76.96 VertSec:-  
499.55



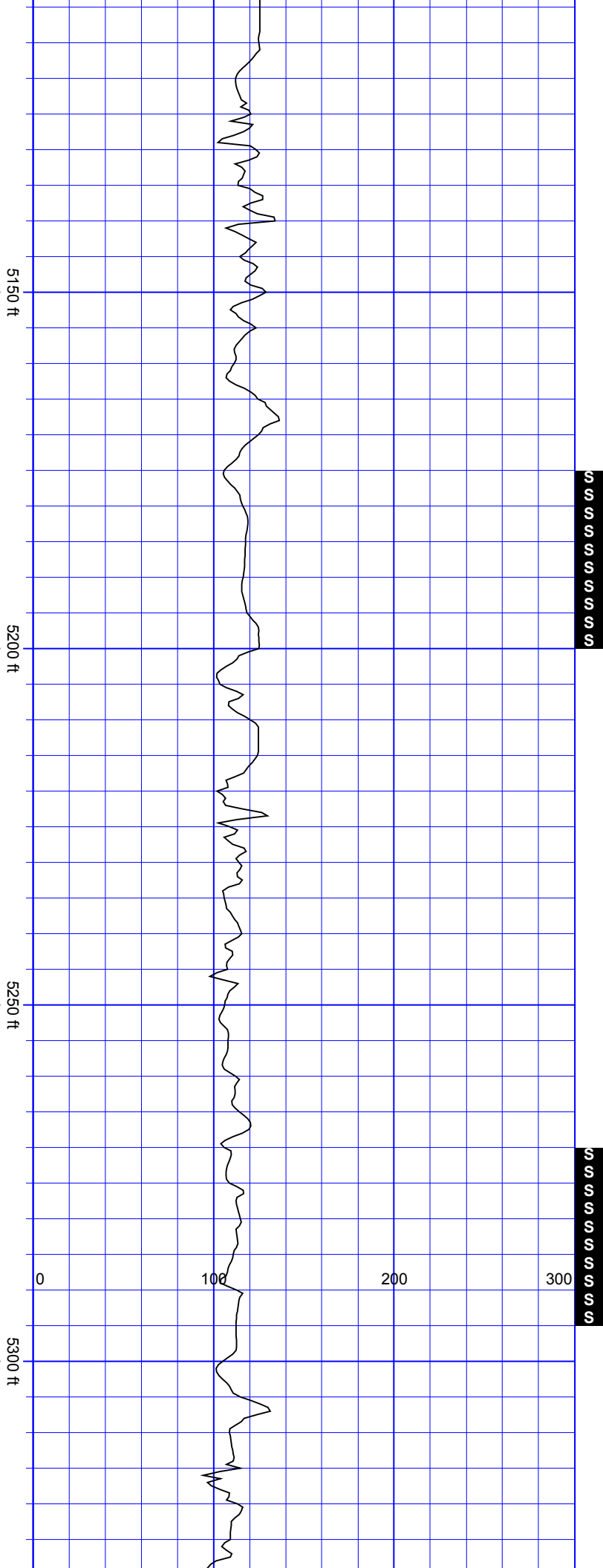


SurveyDepth:4928  
TVD:4895.21 Inc:4.84  
Azi:72.86 VertSec:-  
507.56

SurveyDepth:5023  
TVD:4989.73 Inc:6.62  
Azi:76.78 VertSec:-  
516.59



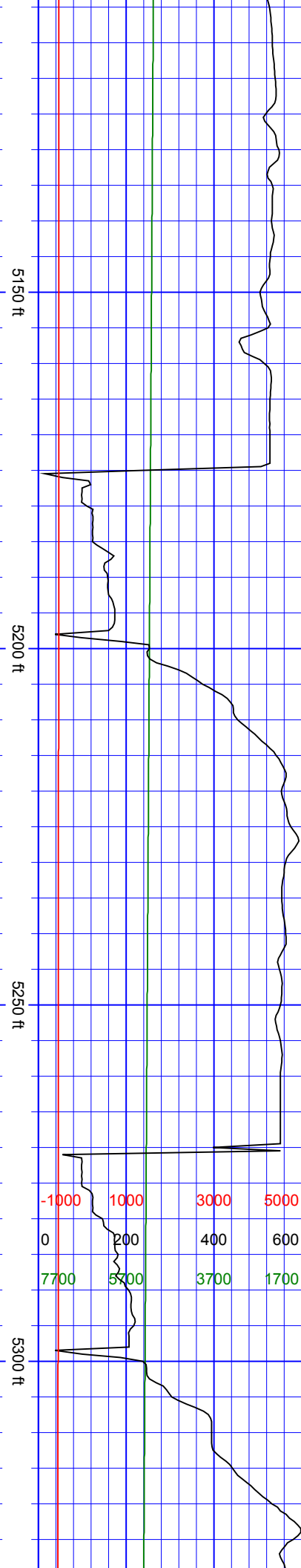




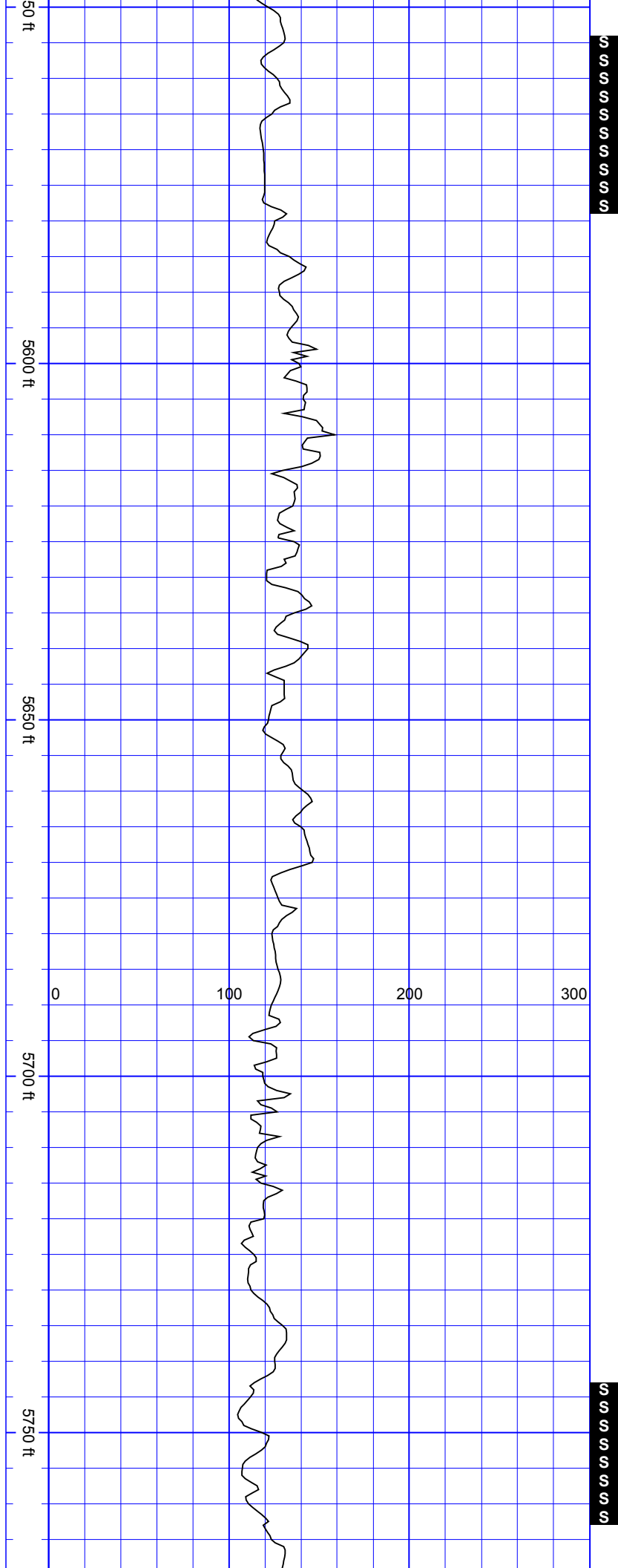
SurveyDepth:5117  
TVD:5083.23 Inc:5.13  
Azi:74.01 VertSec:-  
525.78

SurveyDepth:5212  
TVD:5177.77 Inc:6.19  
Azi:84.17 VertSec:-  
534.87

SurveyDepth:5307  
TVD:5272 Inc:8.36  
Azi:85.84 VertSec:-  
546.79

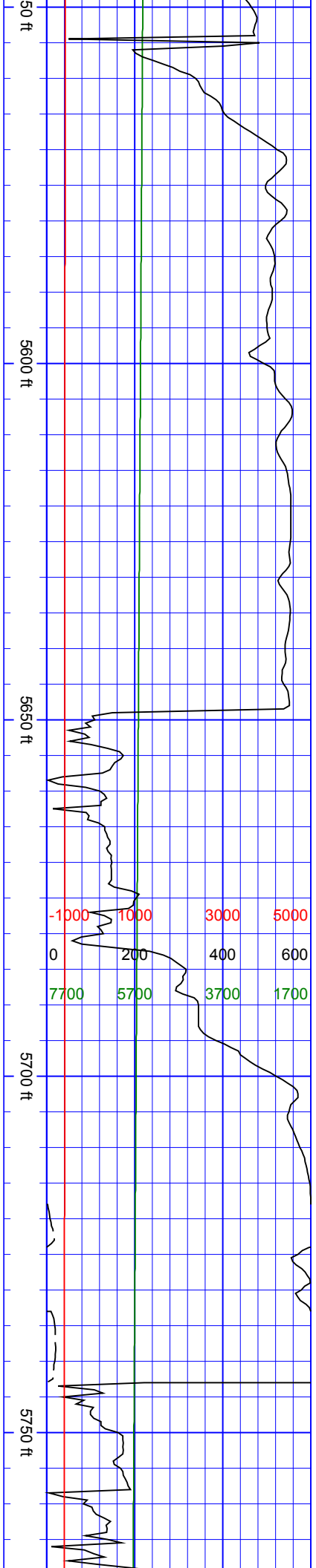


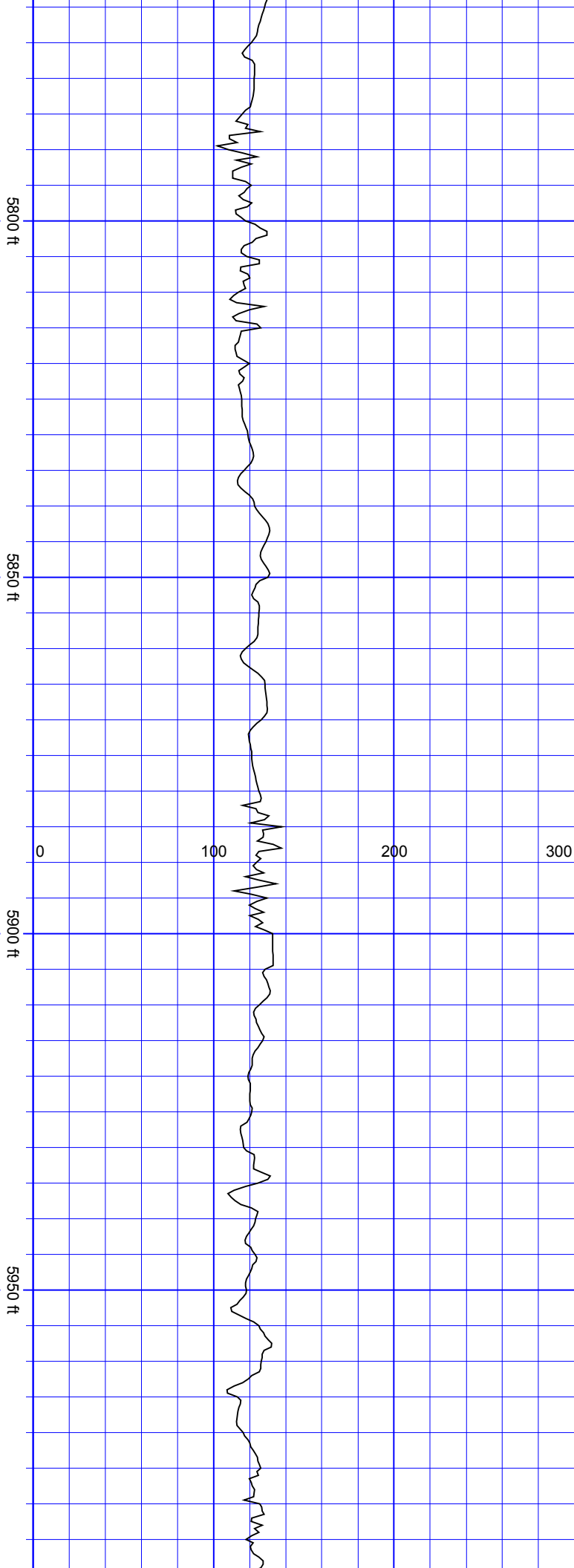




SurveyDepth:5590  
TVD:5552.76 Inc:4.84  
Azi:55.35 VertSec:-  
578.69

SurveyDepth:5685  
TVD:5647.35 Inc:5.91  
Azi:63.92 VertSec:-  
586.16

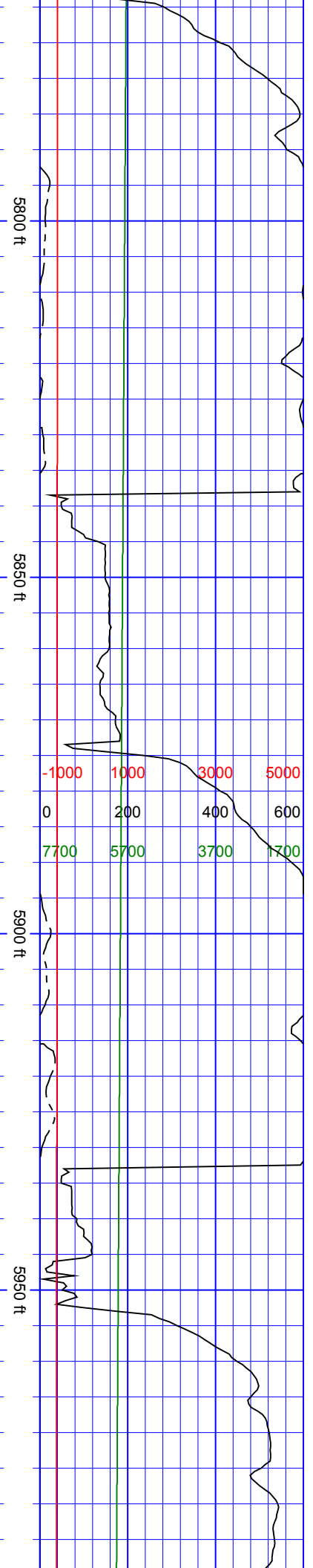


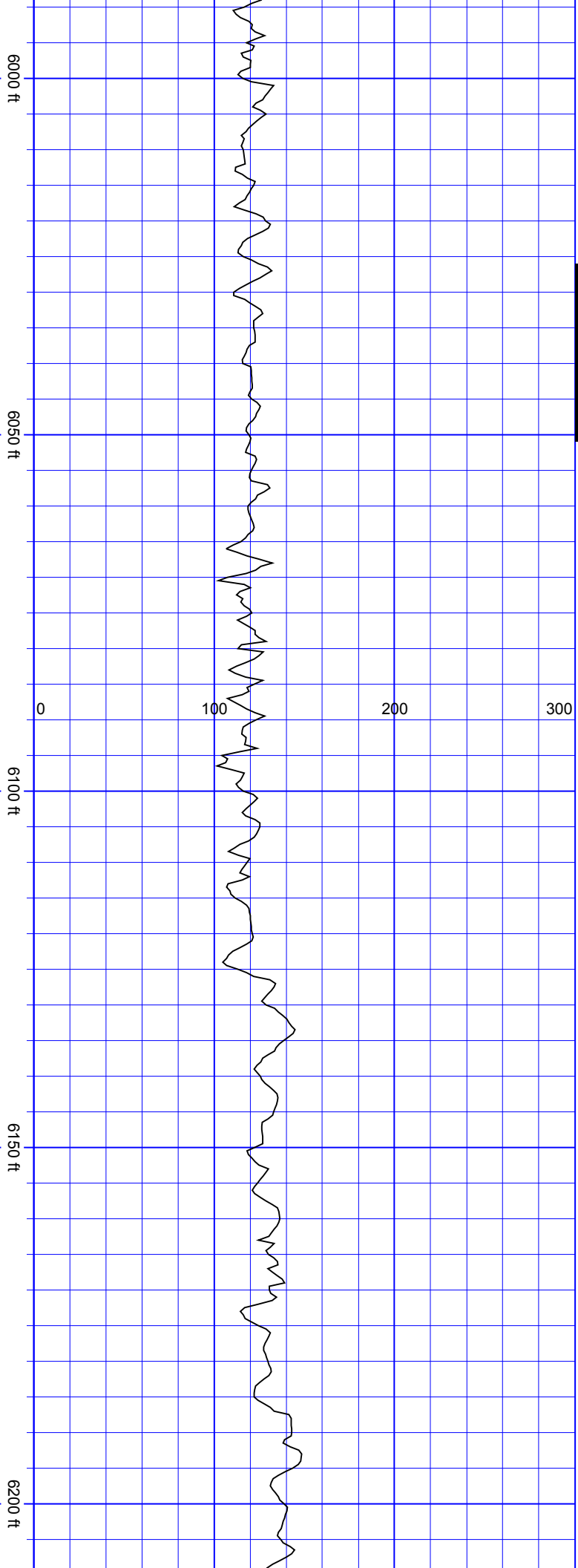


SurveyDepth:5779  
TVD:5740.95 Inc:4.79  
Azi:92.66 VertSec:-  
594.32

SurveyDepth:5873  
TVD:5834.45 Inc:6.98  
Azi:97.19 VertSec:-  
603.94

SurveyDepth:5968  
TVD:5928.75 Inc:7  
Azi:89.85 VertSec:-  
615.48

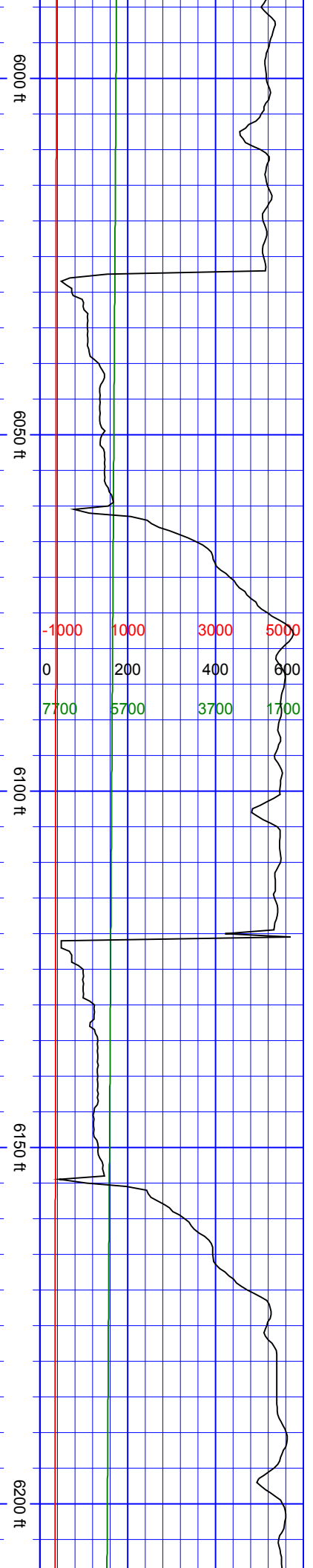




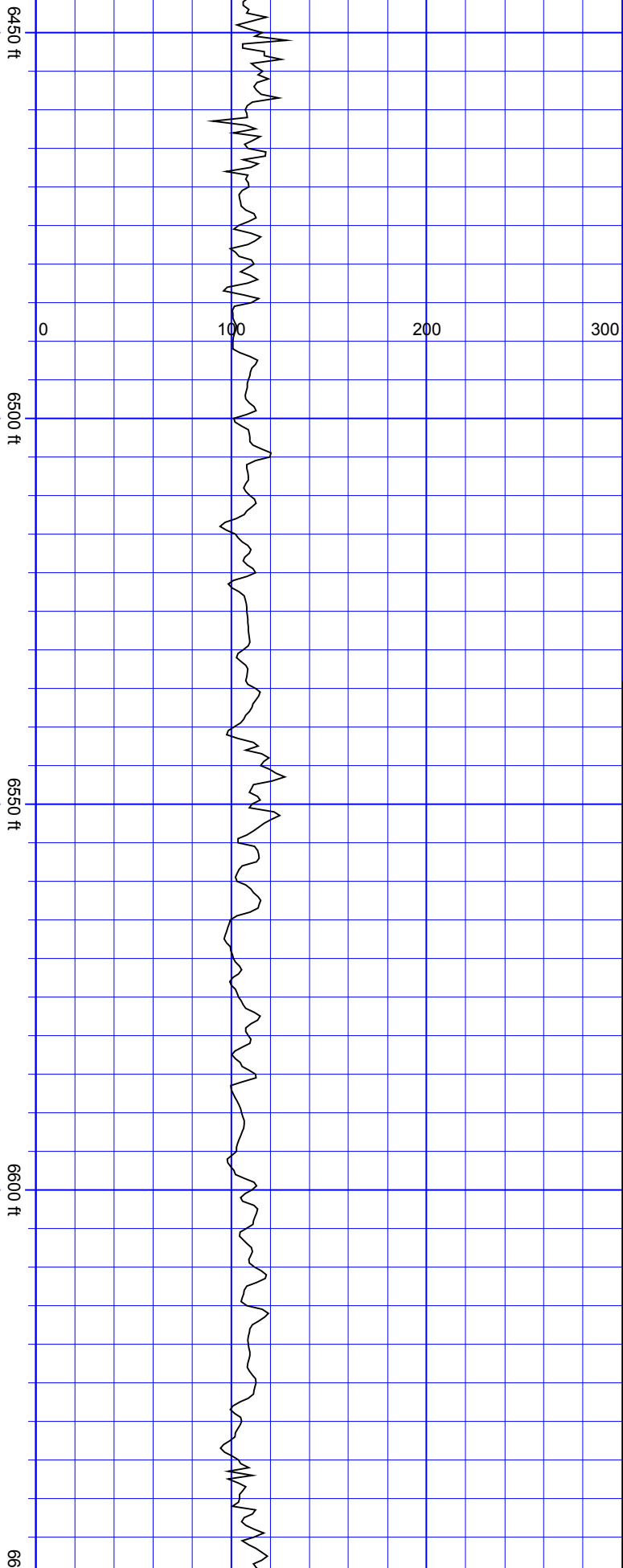
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SurveyDepth:6062  
TVD:6021.78 Inc:9.37  
Azi:86.44 VertSec:-  
628.81

SurveyDepth:6156  
TVD:6114.52 Inc:9.75  
Azi:59.48 VertSec:-  
643.07







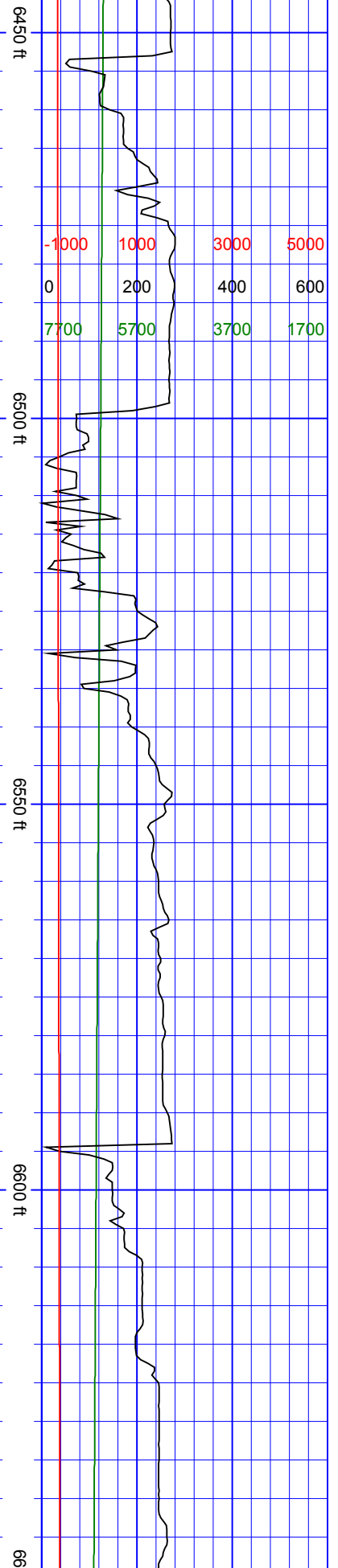
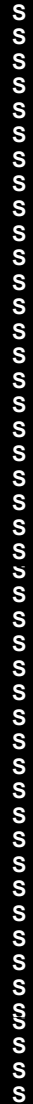
SurveyDepth:6440  
TVD:6396.34 Inc:5.7  
Azi:269.7 VertSec:-  
658.82

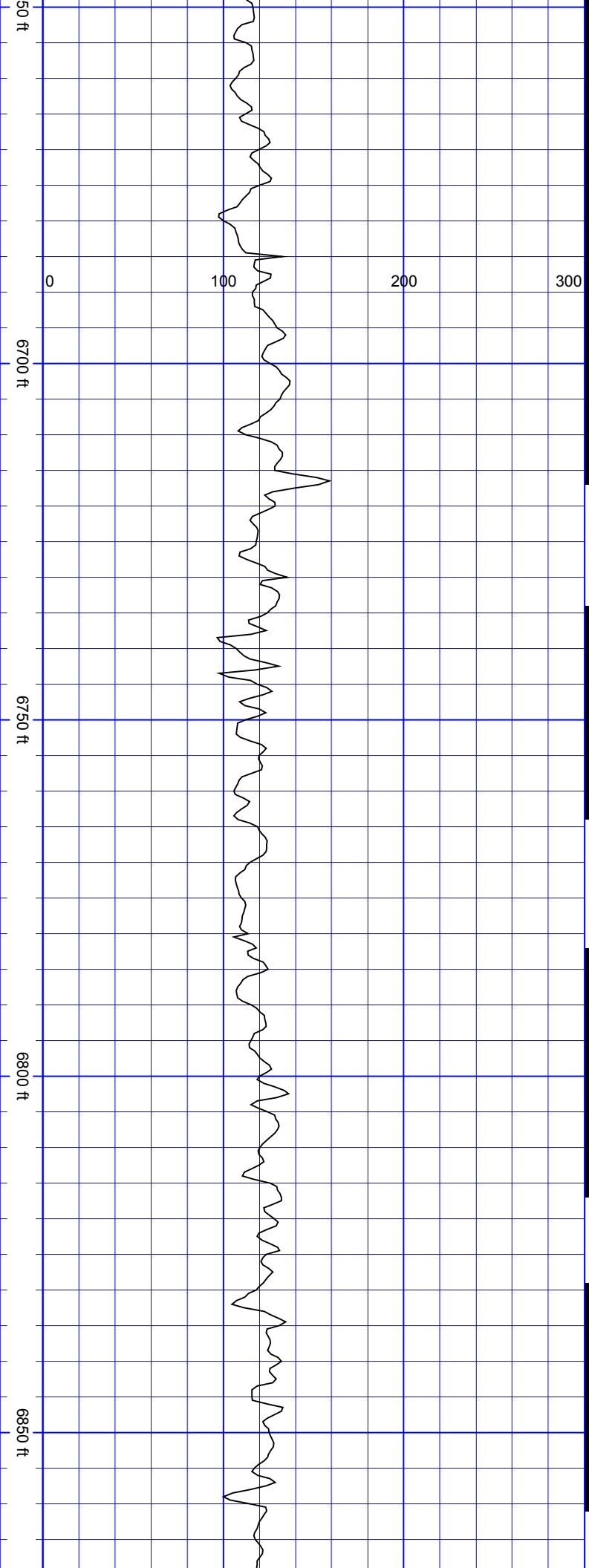
SurveyDepth:6487  
TVD:6442.92 Inc:9.47  
Azi:276.86 VertSec:-  
652.63

SurveyDepth:6535  
TVD:6490.05 Inc:12.35  
Azi:280.61 VertSec:-  
643.61

SurveyDepth:6582  
TVD:6535.63 Inc:15.9  
Azi:292.22 VertSec:-  
632.55

SurveyDepth:6629  
TVD:6580.38 Inc:19.64  
Azi:294.37 VertSec:-  
619.13





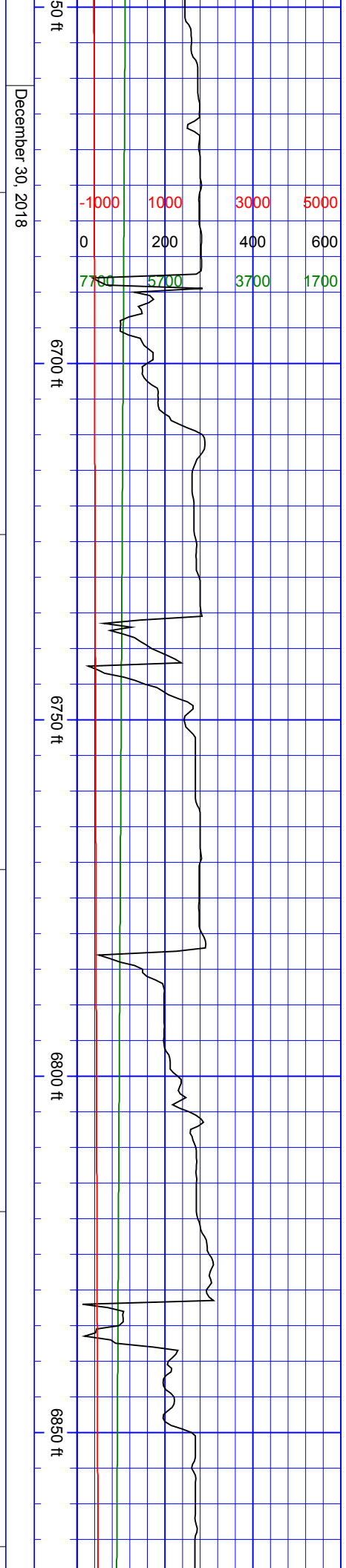
SurveyDepth:6676  
TVD:6624.13 Inc:23.2  
Azi:297.47 VertSec:-  
603.36

SurveyDepth:6724  
TVD:6667.85 Inc:25.53  
Azi:298.83 VertSec:-  
585.48

SurveyDepth:6771  
TVD:6709.73 Inc:28.45  
Azi:295.34 VertSec:-  
566.03

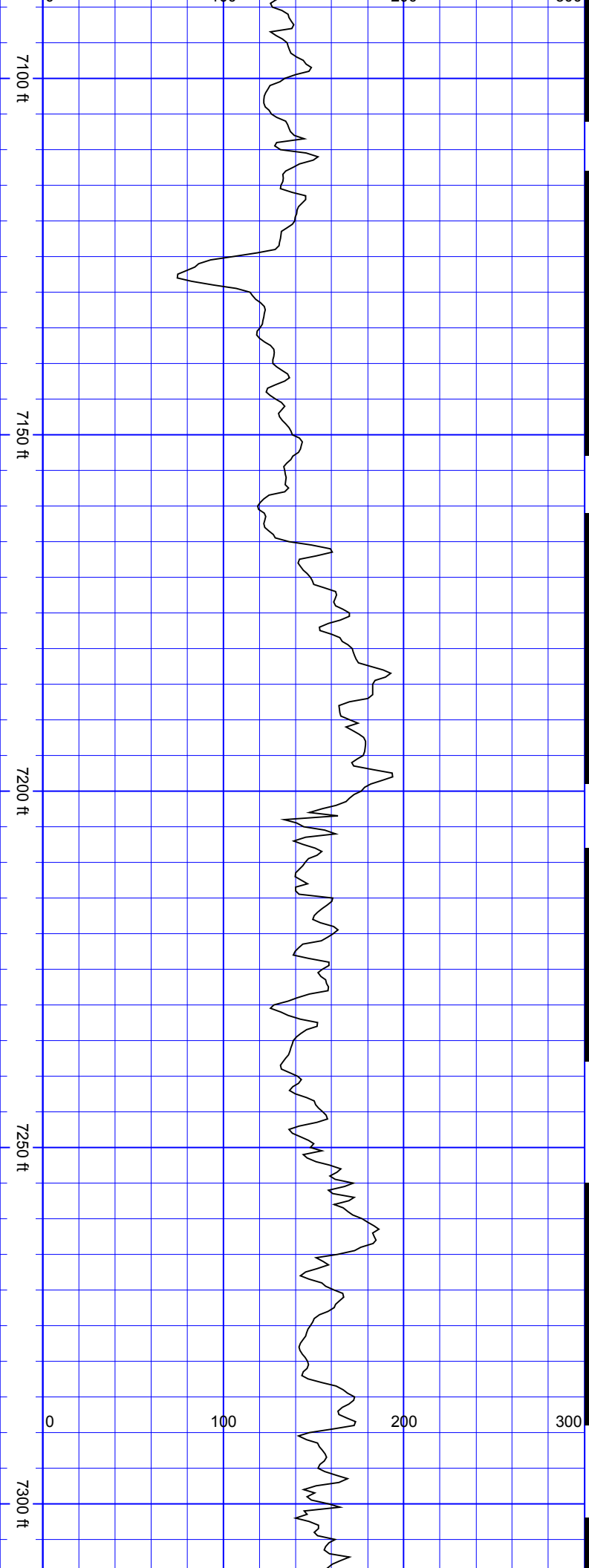
SurveyDepth:6819  
TVD:6751.13 Inc:32.34  
Azi:292.91 VertSec:-  
543.41

SurveyDepth:6866









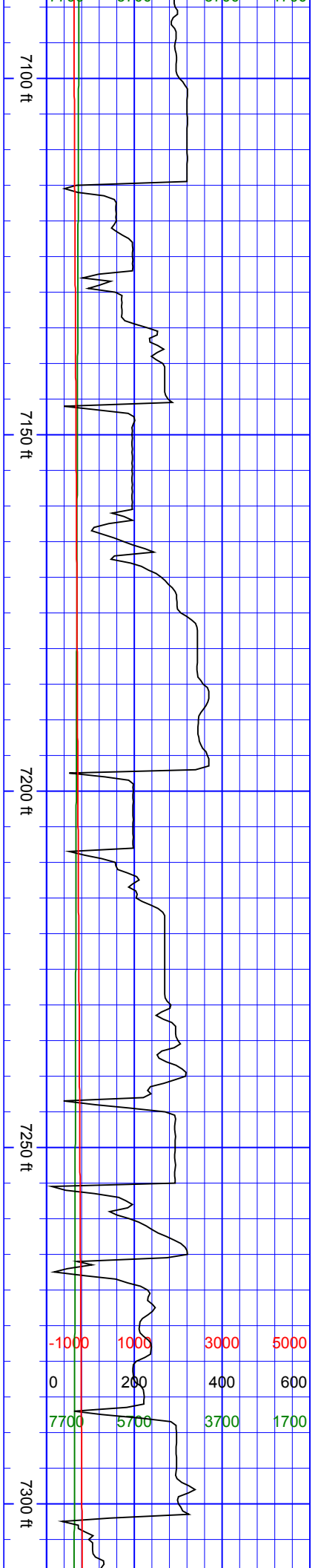
SurveyDepth:7103  
TVD:6965.95 Inc:53.16  
Azi:271.36 VertSec:-361.96

SurveyDepth:7150  
TVD:6992.77 Inc:57.24  
Azi:270.46 VertSec:-323.39

SurveyDepth:7197  
TVD:7016.78 Inc:61.29  
Azi:271.08 VertSec:-283.03

SurveyDepth:7244  
TVD:7038.15 Inc:64.62  
Azi:270 VertSec:-241.21

SurveyDepth:7291  
TVD:7057.5 Inc:66.75  
Azi:269.99 VertSec:-198.43



7350 ft

7400 ft

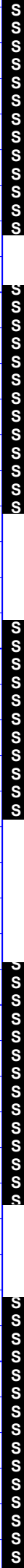
7450 ft

7500 ft

0

200

300



SurveyDepth:7338  
TVD:7074.88 Inc:69.85  
Azi:267.67 VertSec:-  
154.88

SurveyDepth:7386  
TVD:7089.88 Inc:73.73  
Azi:267.07 VertSec:-  
109.49

SurveyDepth:7433  
TVD:7101.97 Inc:76.45  
Azi:268.06 VertSec:-  
64.27

SurveyDepth:7481  
TVD:7112.48 Inc:78.25  
Azi:266.41 VertSec:-  
17.66

SurveyDepth:7529

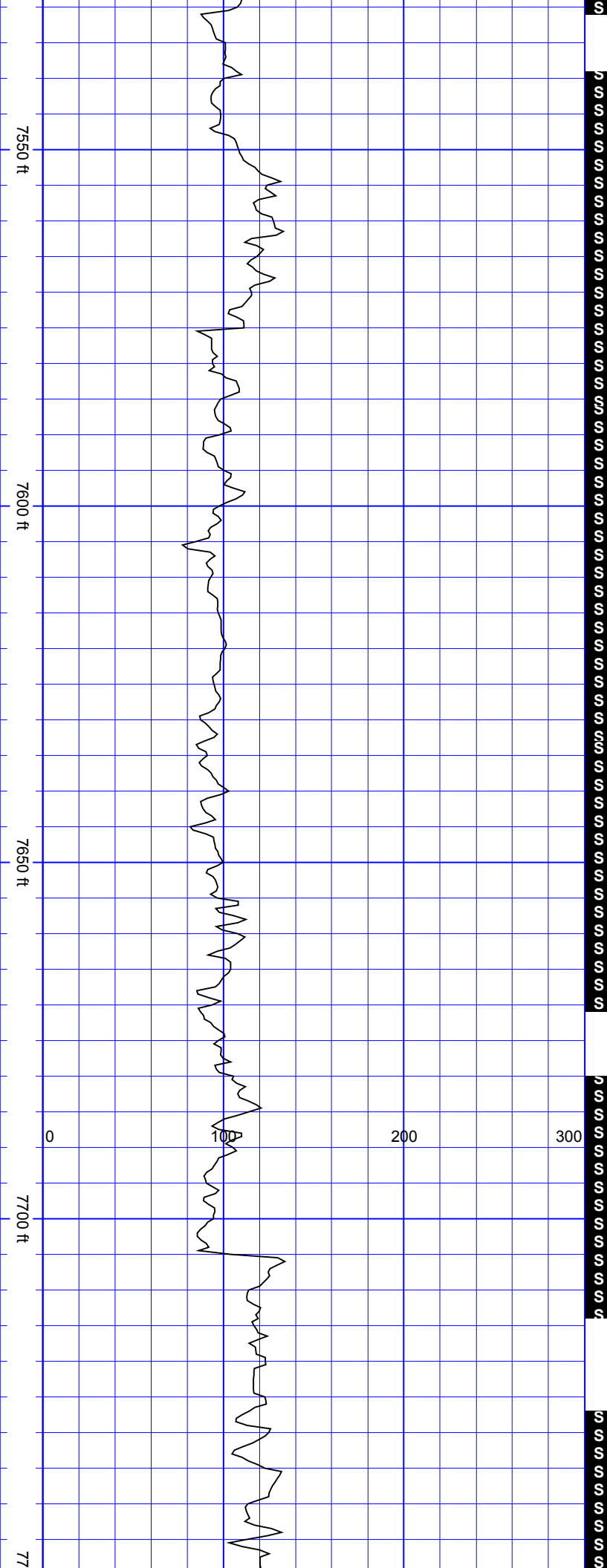
7350 ft

7400 ft

7450 ft

7500 ft

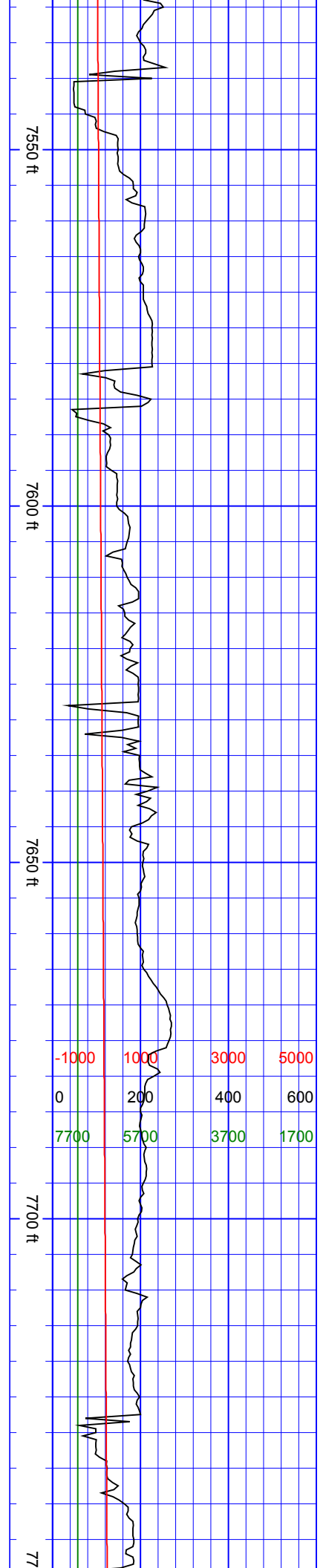
-1000	1000	3000	5000
0	200	400	600
7700	5700	3700	1700



SurveyDepth:7528  
TVD:7120.72 Inc:81.56  
Azi:265.34  
VertSec:28.27

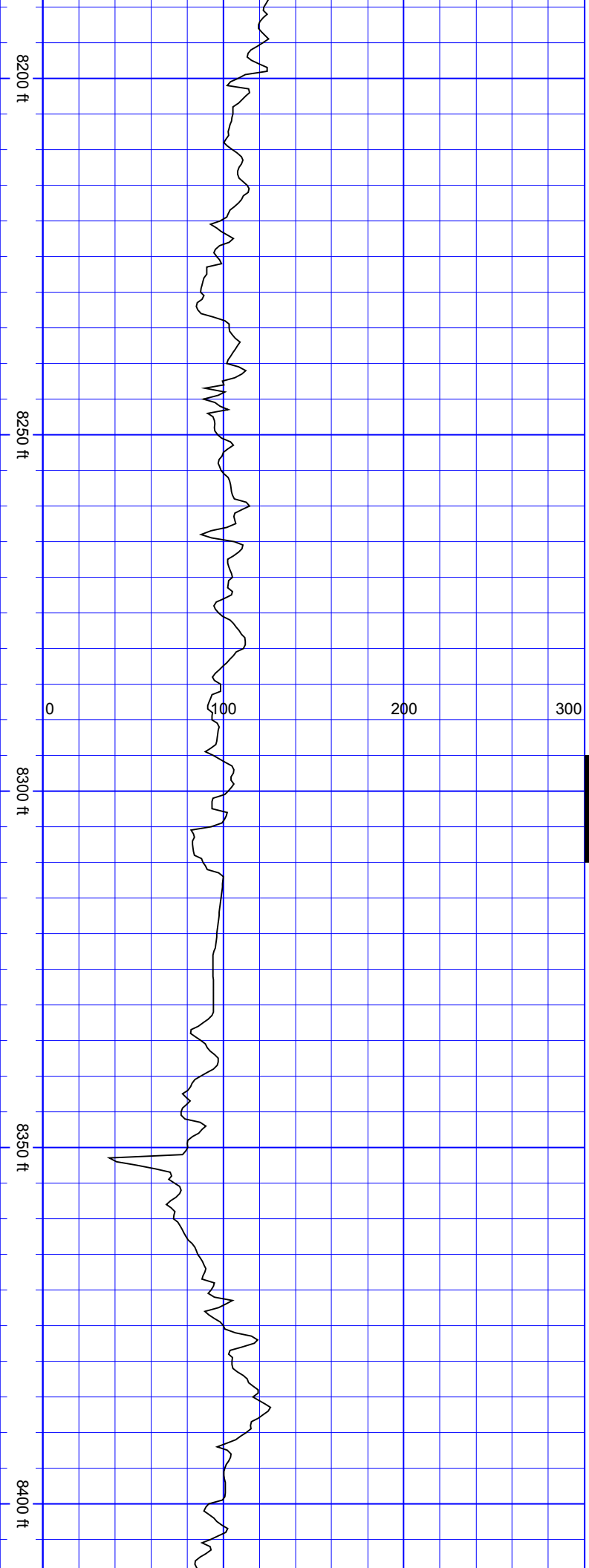
SurveyDepth:7575  
TVD:7125.65 Inc:86.39  
Azi:263 VertSec:74.47

SurveyDepth:7669  
TVD:7125.91 Inc:93.29  
Azi:263.98  
VertSec:167.17





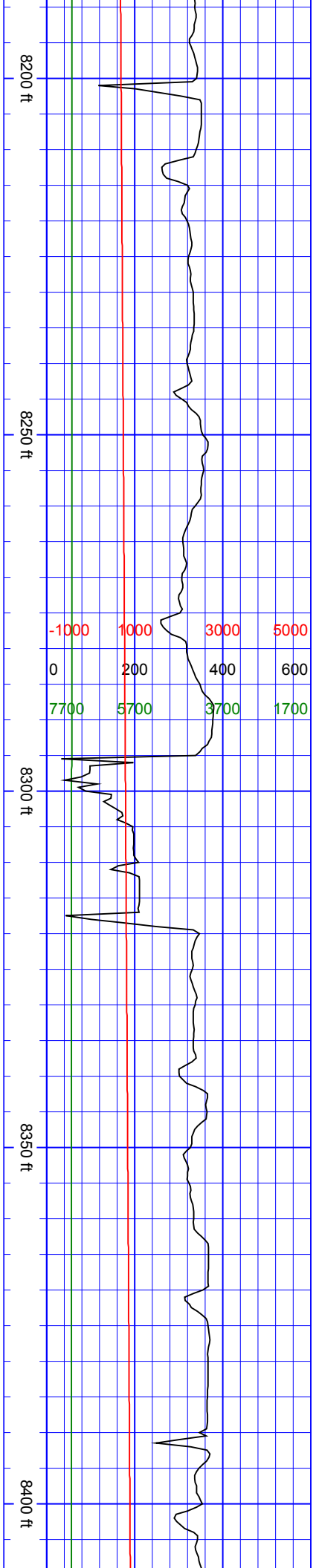


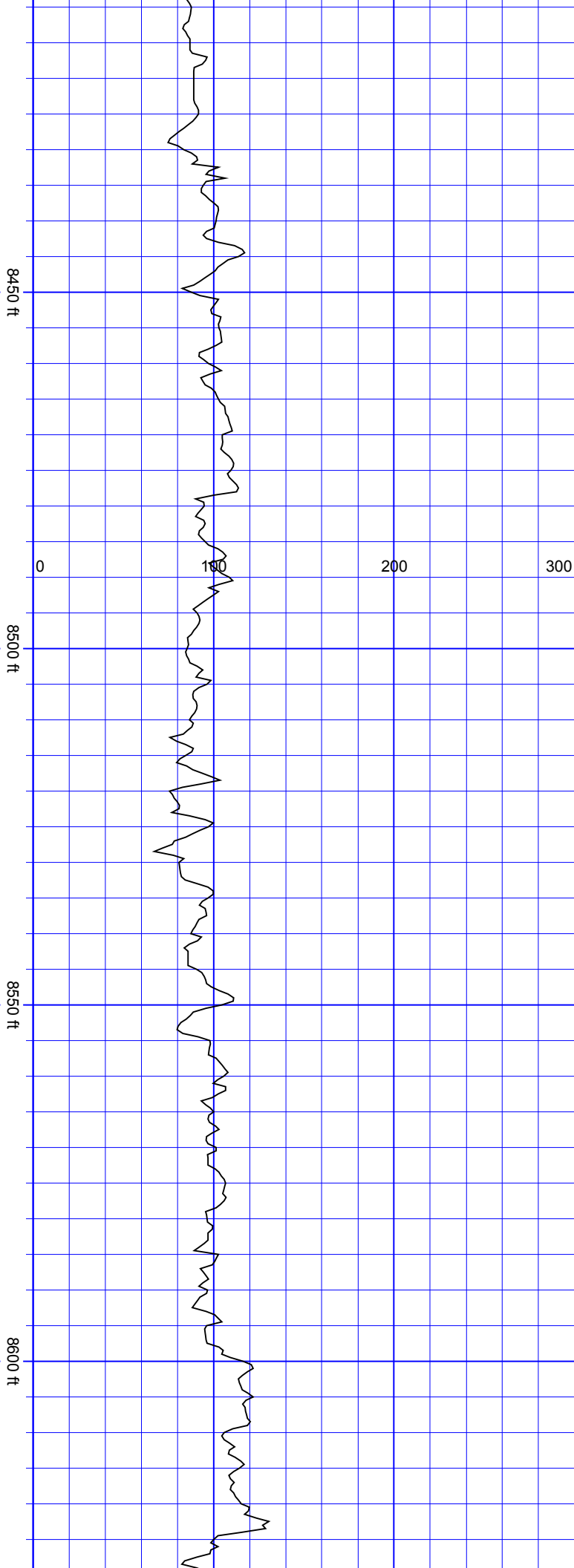


SurveyDepth:8237  
TVD:7125.71 Inc:88.96  
Azi:269.25  
VertSec:732.69

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SurveyDepth:8331  
TVD:7127.78 Inc:88.52  
Azi:271.64  
VertSec:826.58



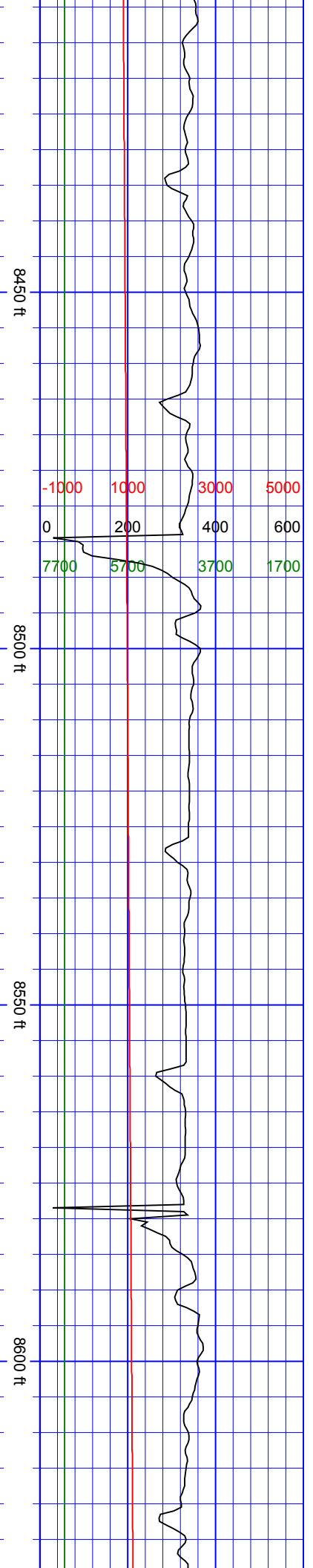


SurveyDepth:8426  
TVD:7130.16 Inc:88.61  
Azi:271.63  
VertSec:921.53

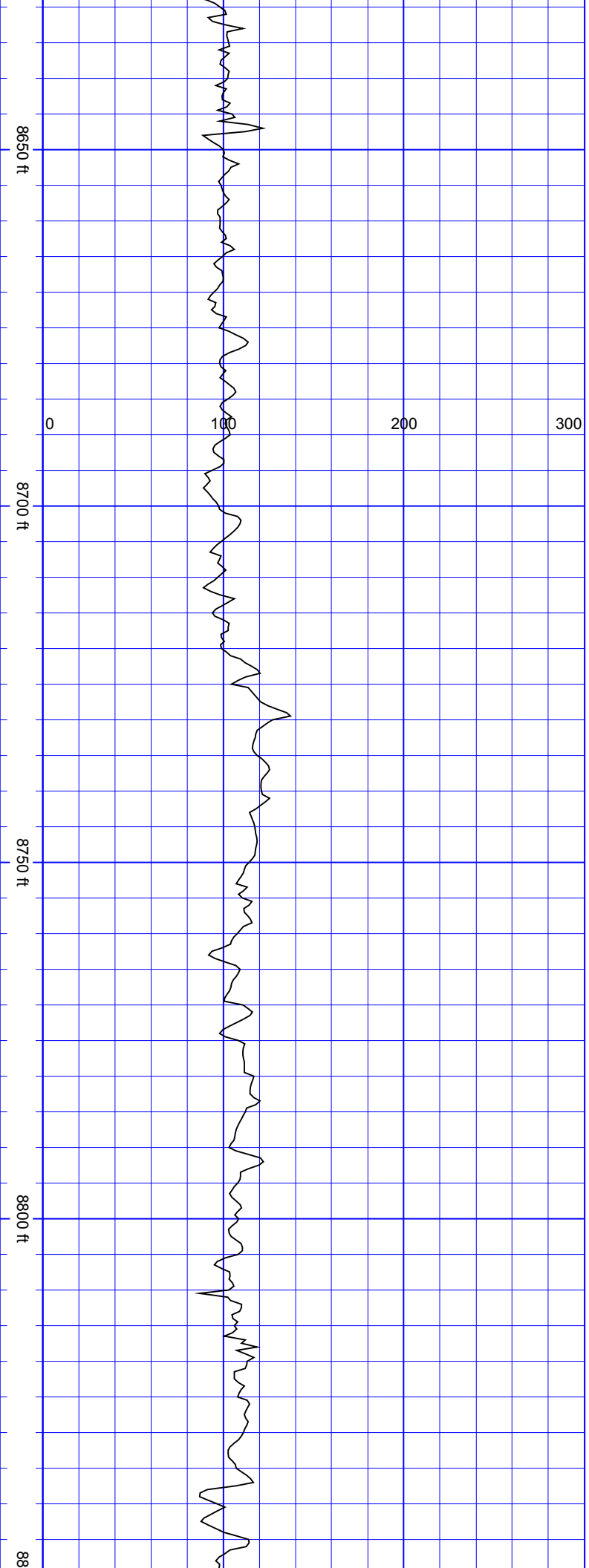
SurveyDepth:8520  
TVD:7132.62 Inc:88.39  
Azi:271.44  
VertSec:1015.48



SurveyDepth:8614  
TVD:7135.65 Inc:87.91  
Azi:271.22  
VertSec:1109.4

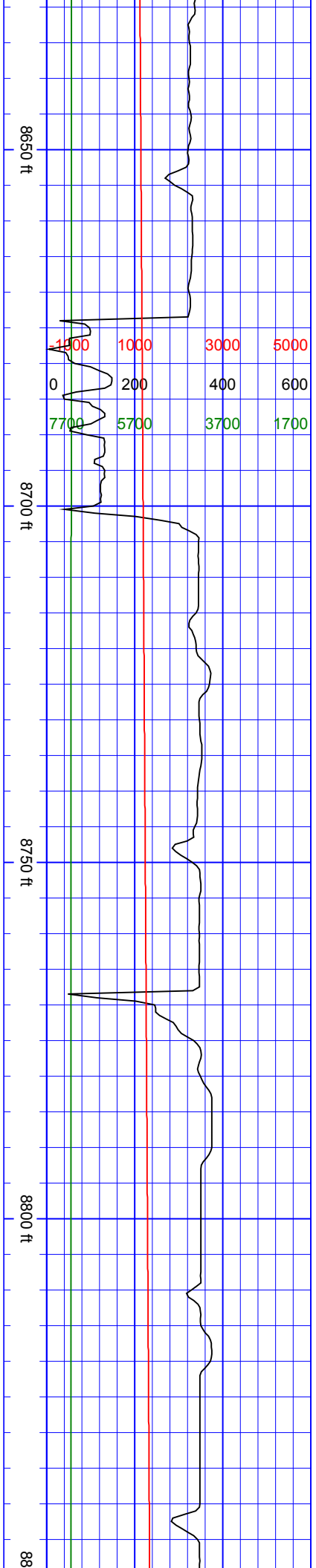


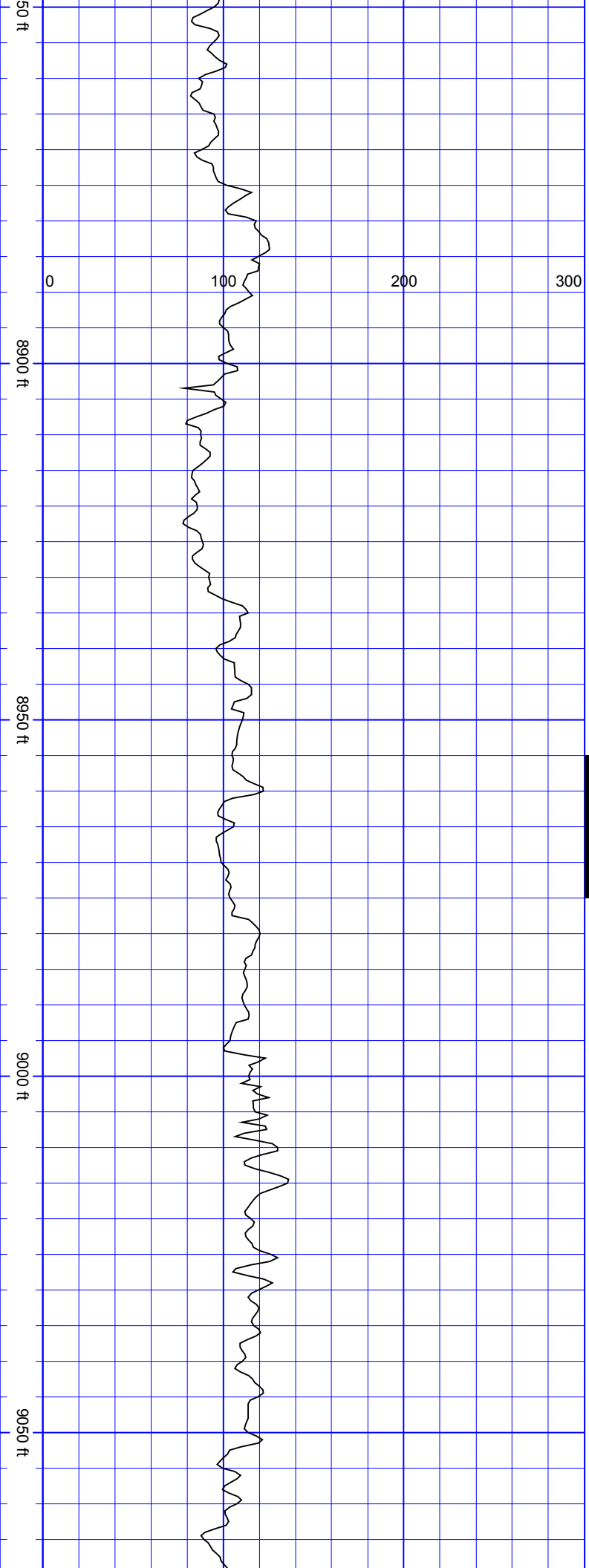




SurveyDepth:8709  
TVD:7137.95 Inc:89.32  
Azi:272.28  
VertSec:1204.35

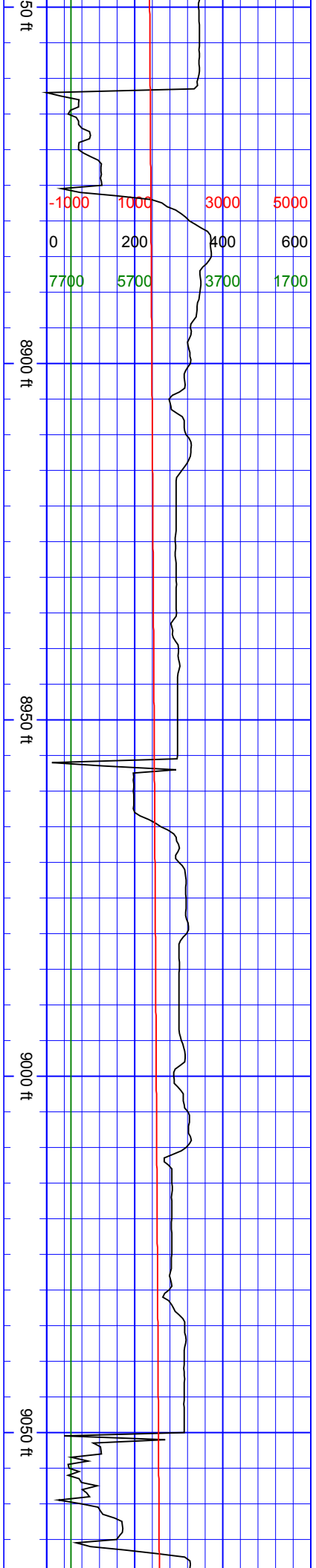
SurveyDepth:8803  
TVD:7139.27 Inc:89.07  
Azi:272.35  
VertSec:1298.34

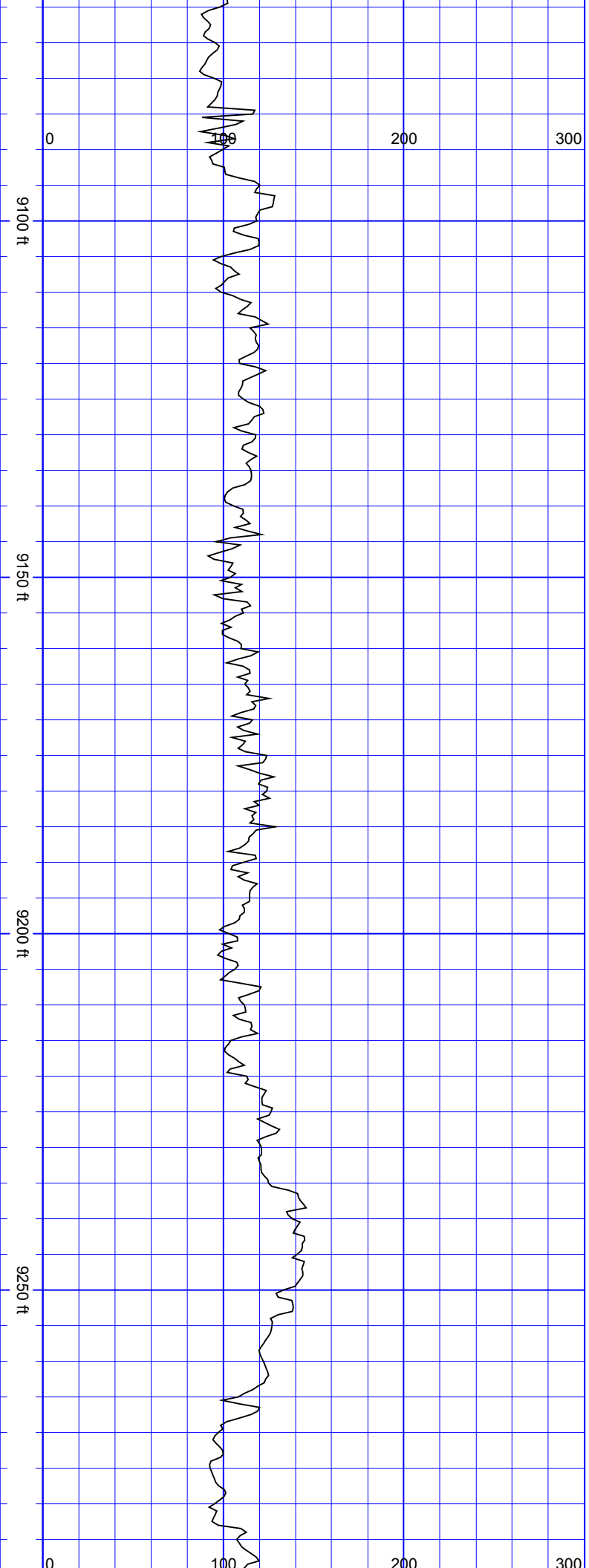




SurveyDepth:8897  
TVD:7139.66 Inc:90.45  
Azi:271.5  
VertSec:1392.32

SurveyDepth:8992  
TVD:7138.78 Inc:90.62  
Azi:271.7  
VertSec:1487.3

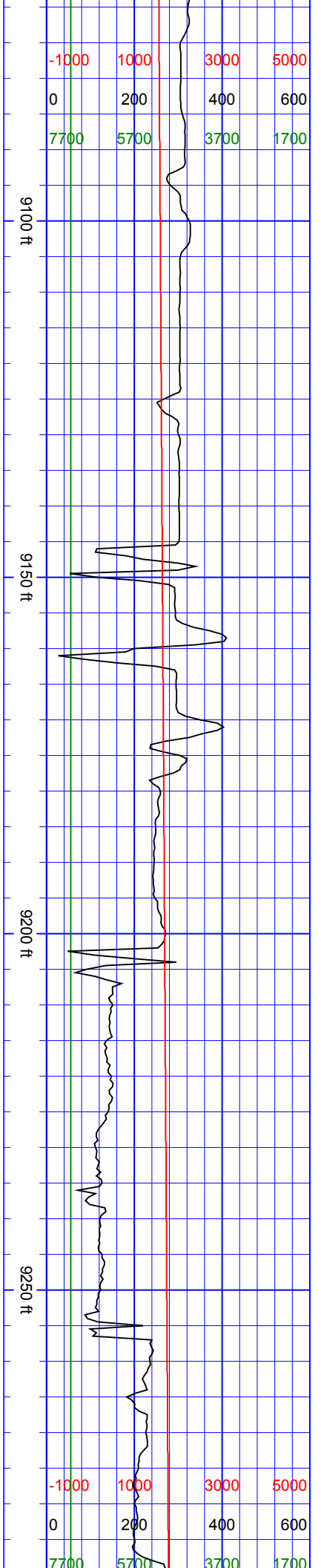




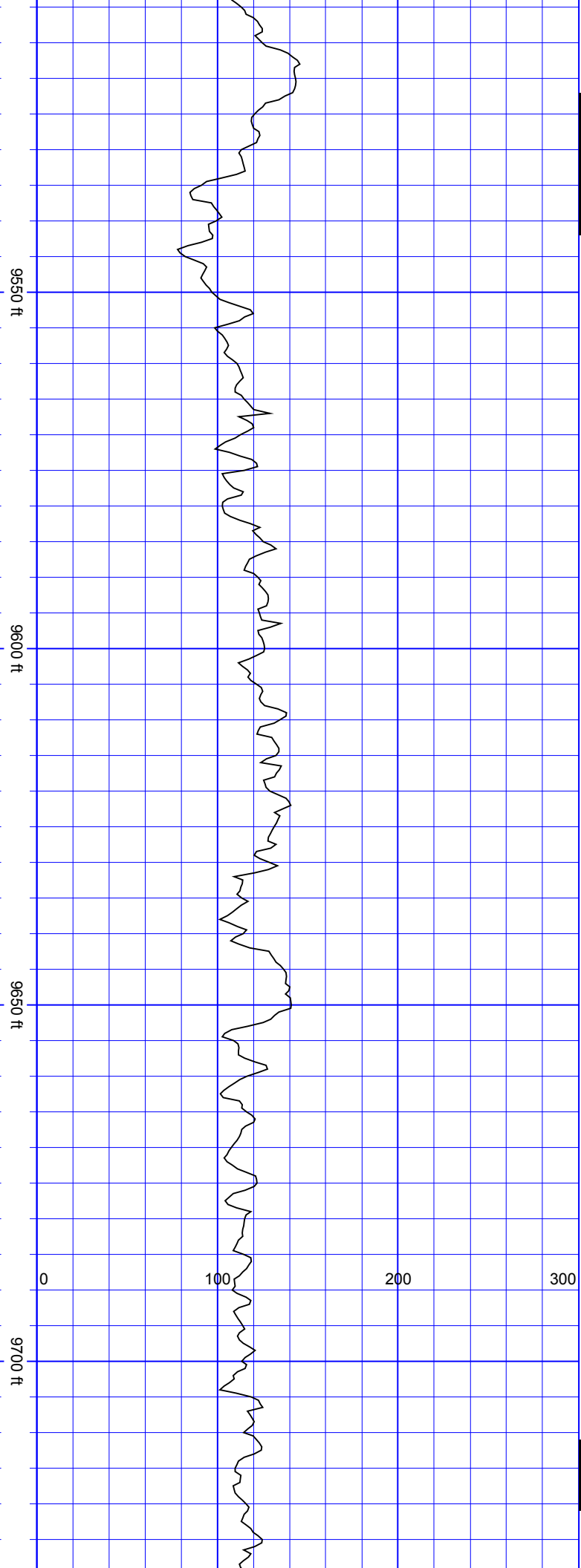
SurveyDepth:9087  
TVD:7138.22 Inc:90.05  
Azi:269.5  
VertSec:1582.22

SurveyDepth:9183  
TVD:7138.38 Inc:89.76  
Azi:268.92  
VertSec:1678.03

SurveyDepth:9277  
TVD:7139.51 Inc:88.86  
Azi:268.72  
VertSec:1771.8

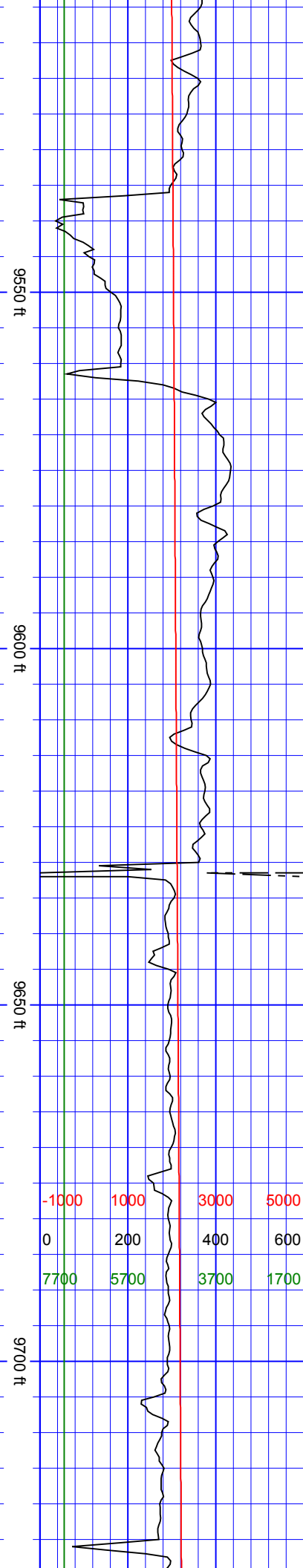


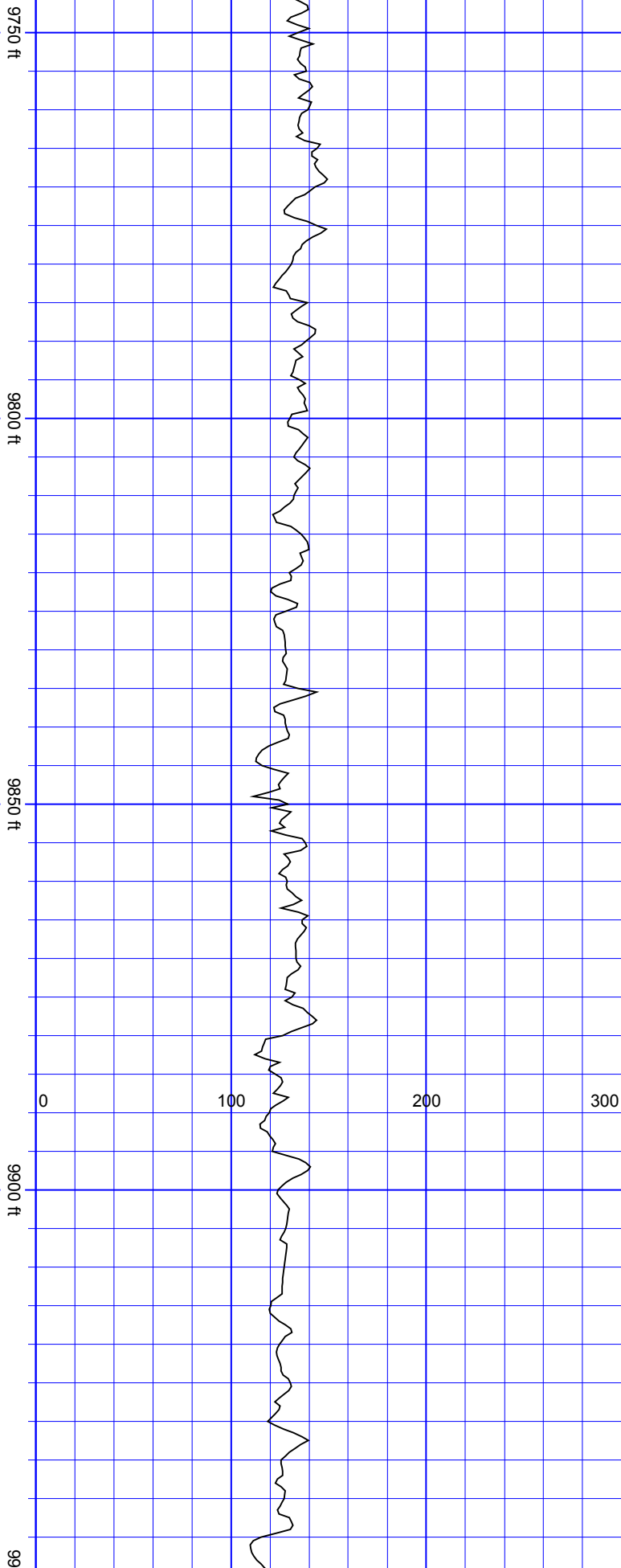




SurveyDepth:9560  
TVD:7143.91 Inc:91.01  
Azi:269.99  
VertSec:2054.08

SurveyDepth:9655  
TVD:7142.32 Inc:90.91  
Azi:270.55  
VertSec:2148.97

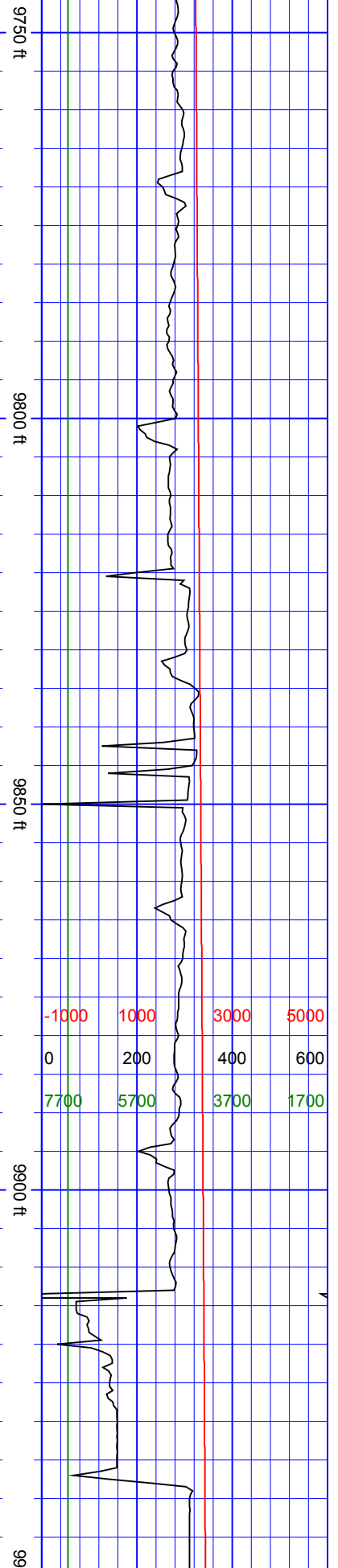


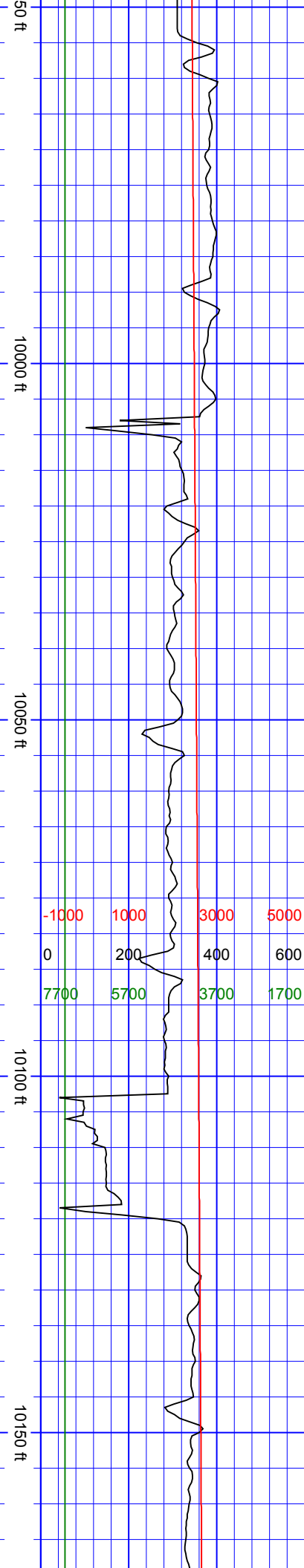


SurveyDepth:9749  
TVD:7141.32 Inc:90.31  
Azi:270.19  
VertSec:2242.89

SurveyDepth:9843  
TVD:7141.42 Inc:89.56  
Azi:269.79  
VertSec:2336.77

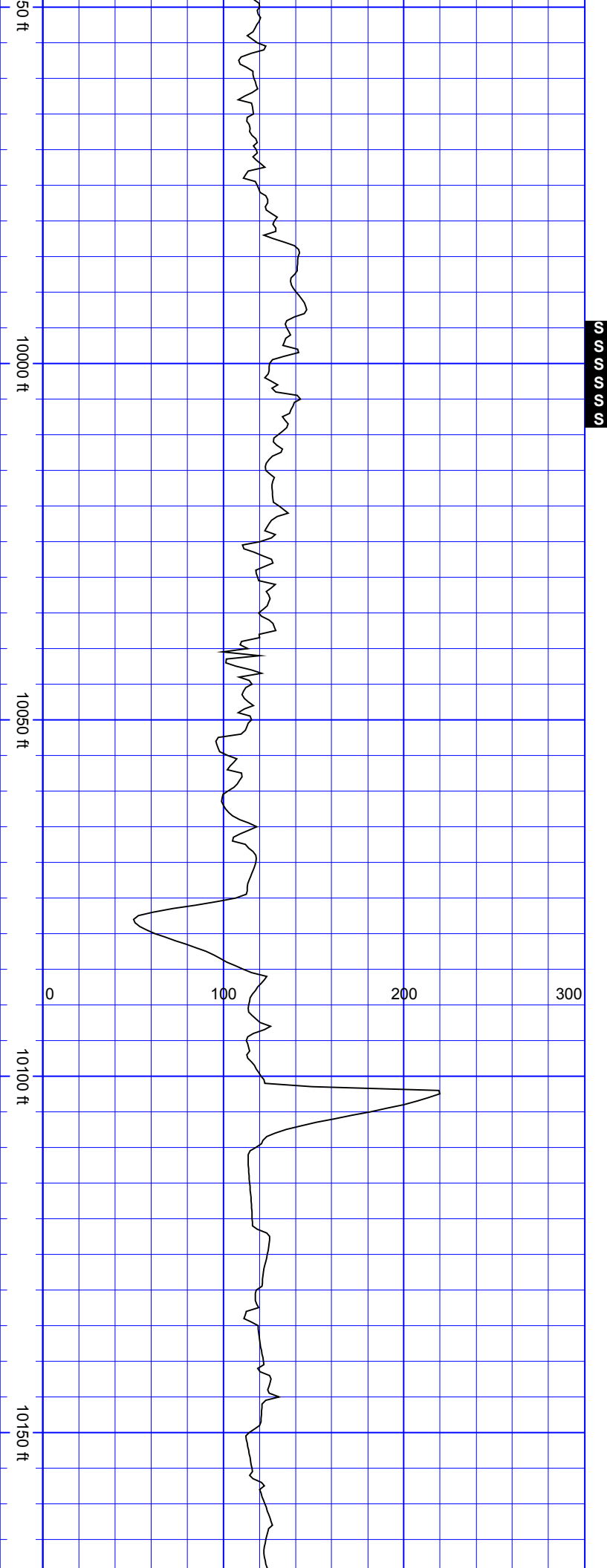
SurveyDepth:9938  
TVD:7141.48 Inc:90.37  
Azi:271.95  
VertSec:2431.71

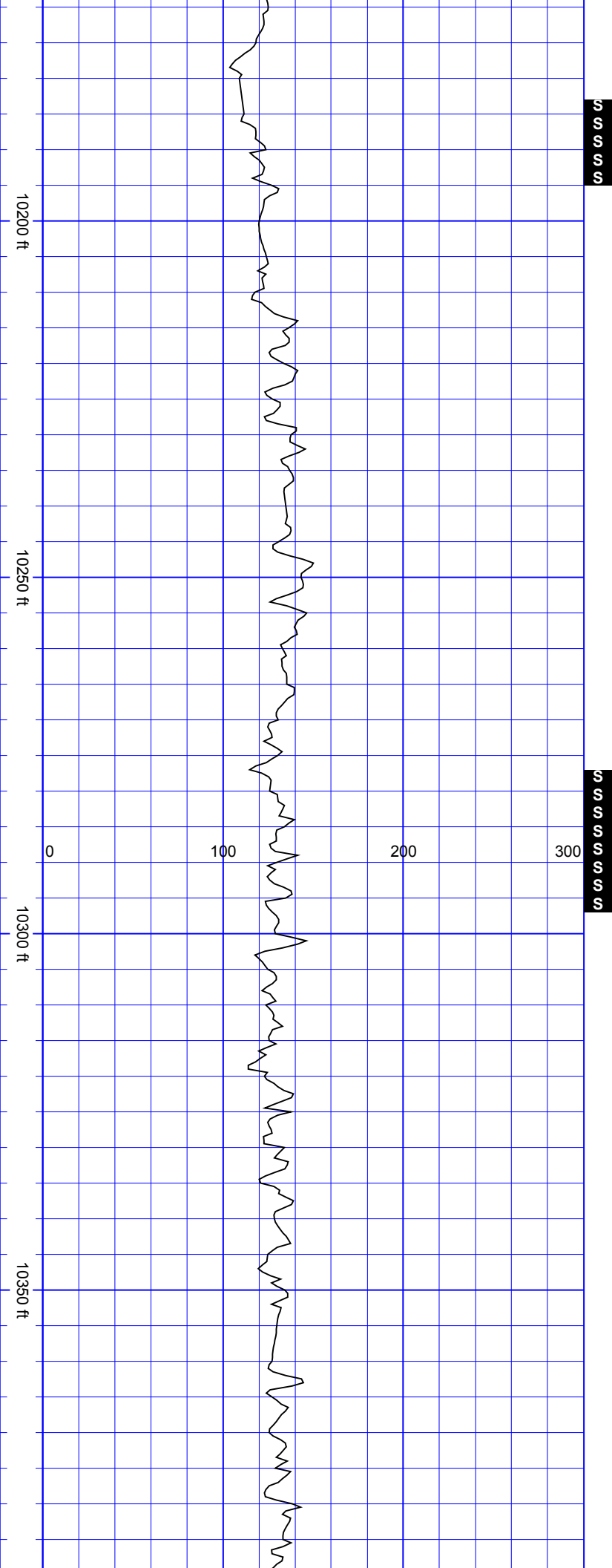




SurveyDepth:10032  
TVD:7141.32 Inc:89.83  
Azi:271.7  
VertSec:2525.7

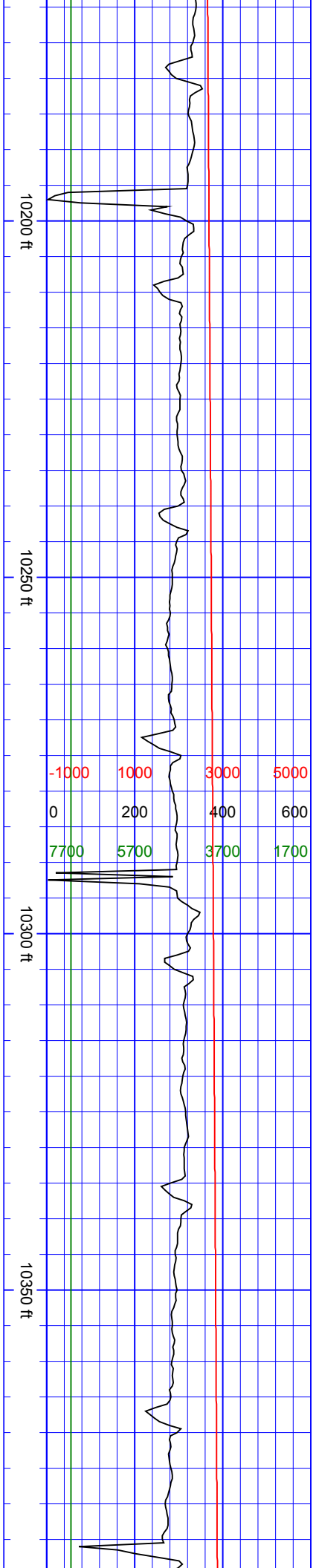
SurveyDepth:10127  
TVD:7140.59 Inc:91.05  
Azi:271.8  
VertSec:2620.68



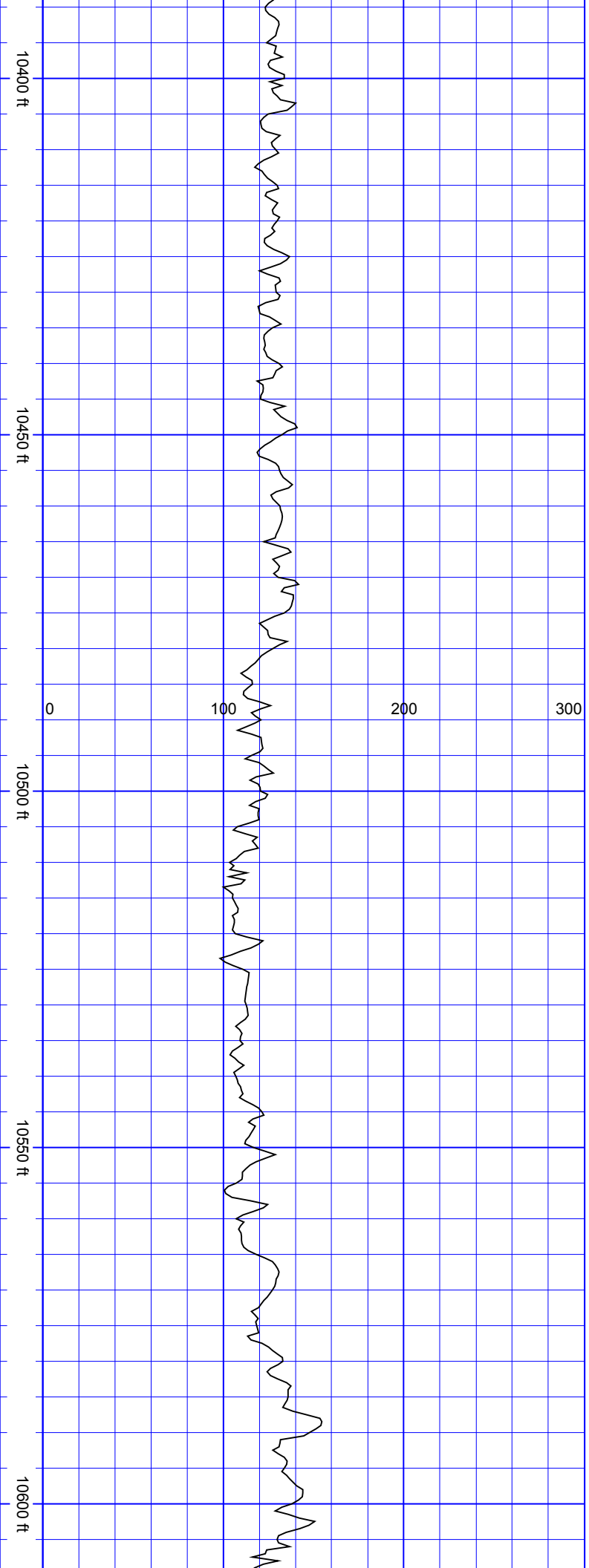


SurveyDepth:10221  
TVD:7139.27 Inc:90.56  
Azi:271.52  
VertSec:2714.65

SurveyDepth:10315  
TVD:7138.94 Inc:89.84  
Azi:270.97  
VertSec:2808.61



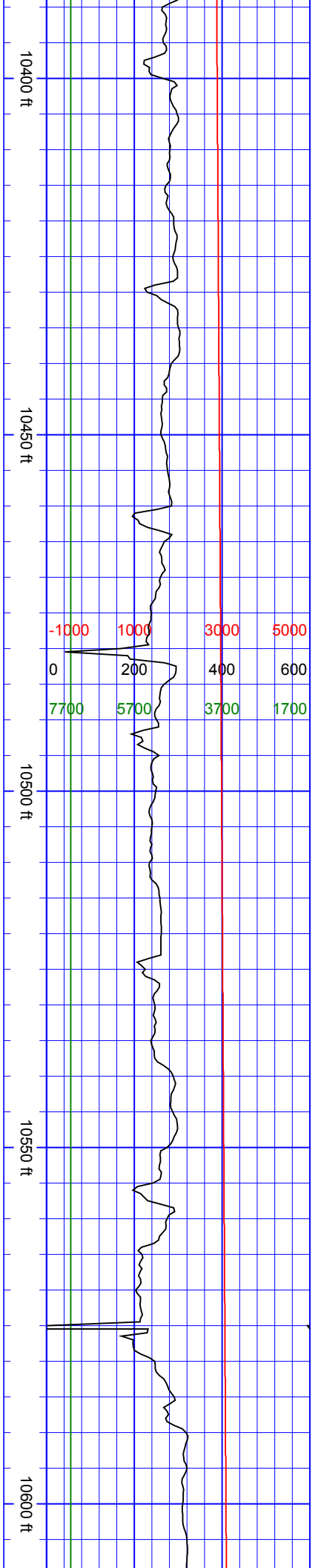


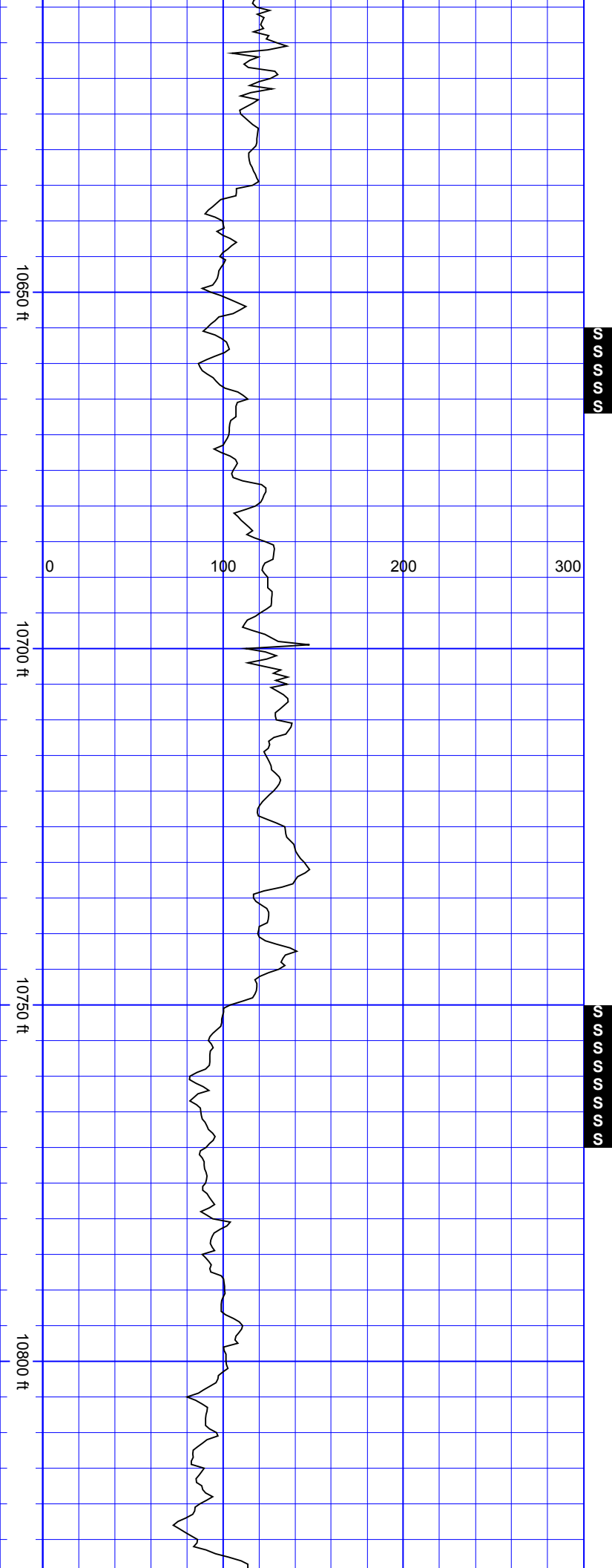


SurveyDepth:10410  
TVD:7139.71 Inc:89.23  
Azi:270.11  
VertSec:2903.54

SurveyDepth:10504  
TVD:7141.62 Inc:88.44  
Azi:269.72  
VertSec:2997.4

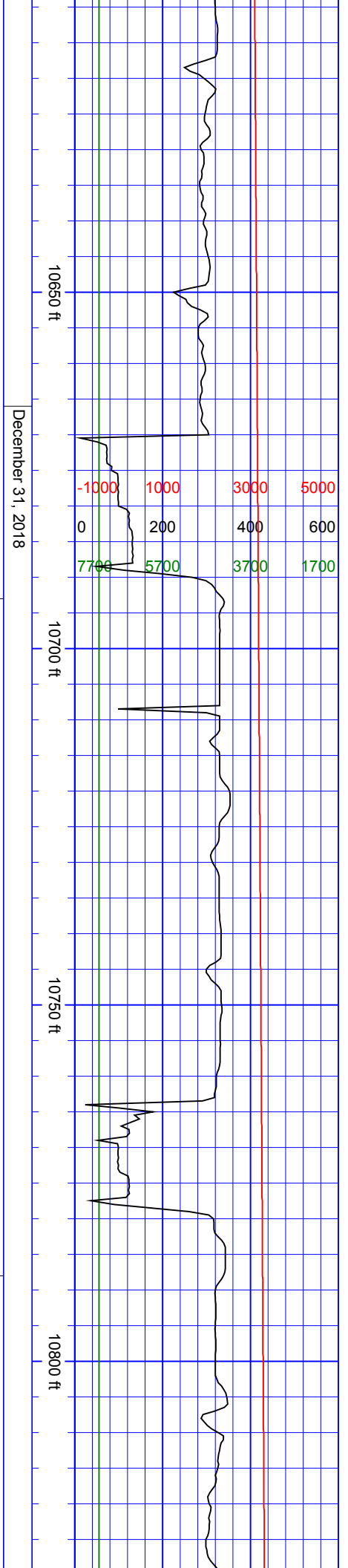
SurveyDepth:10599  
TVD:7144.79 Inc:87.73  
Azi:269.68  
VertSec:3092.21



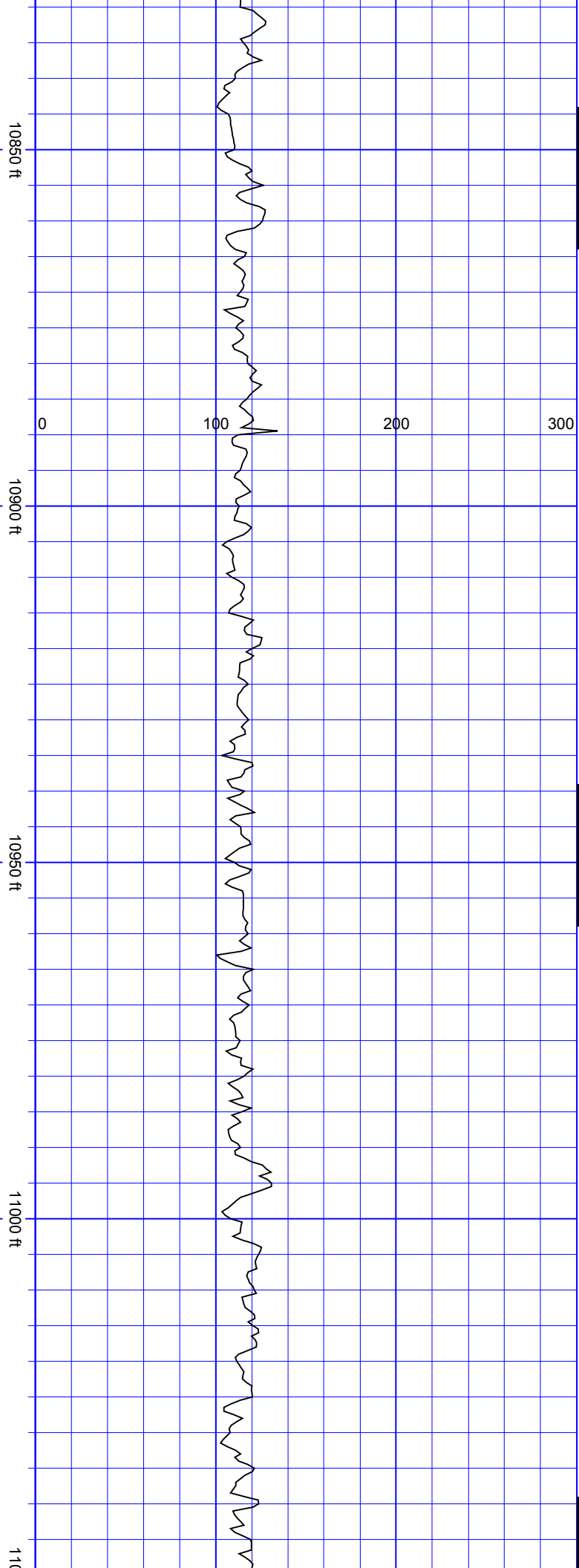


SurveyDepth:10693  
TVD:7146.98 Inc:89.61  
Azi:269.66  
VertSec:3186.04

SurveyDepth:10788  
TVD:7146.35 Inc:91.14  
Azi:269.55  
VertSec:3280.89



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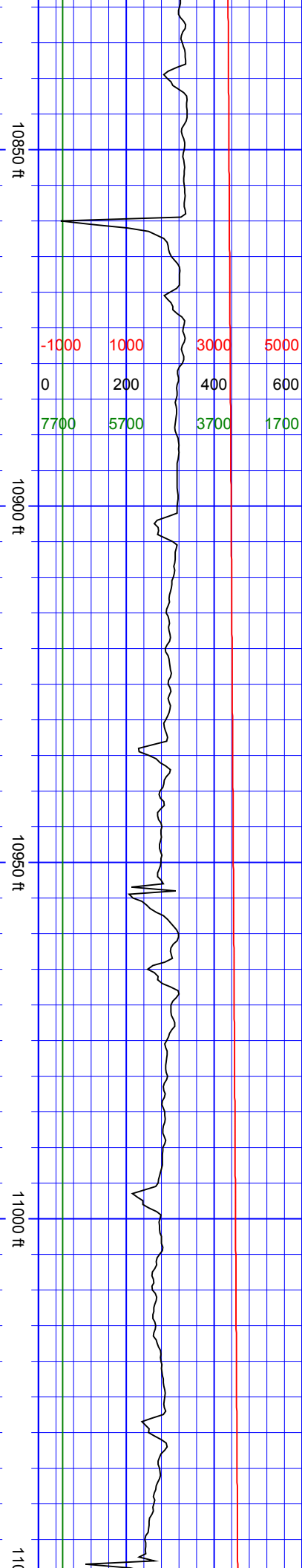
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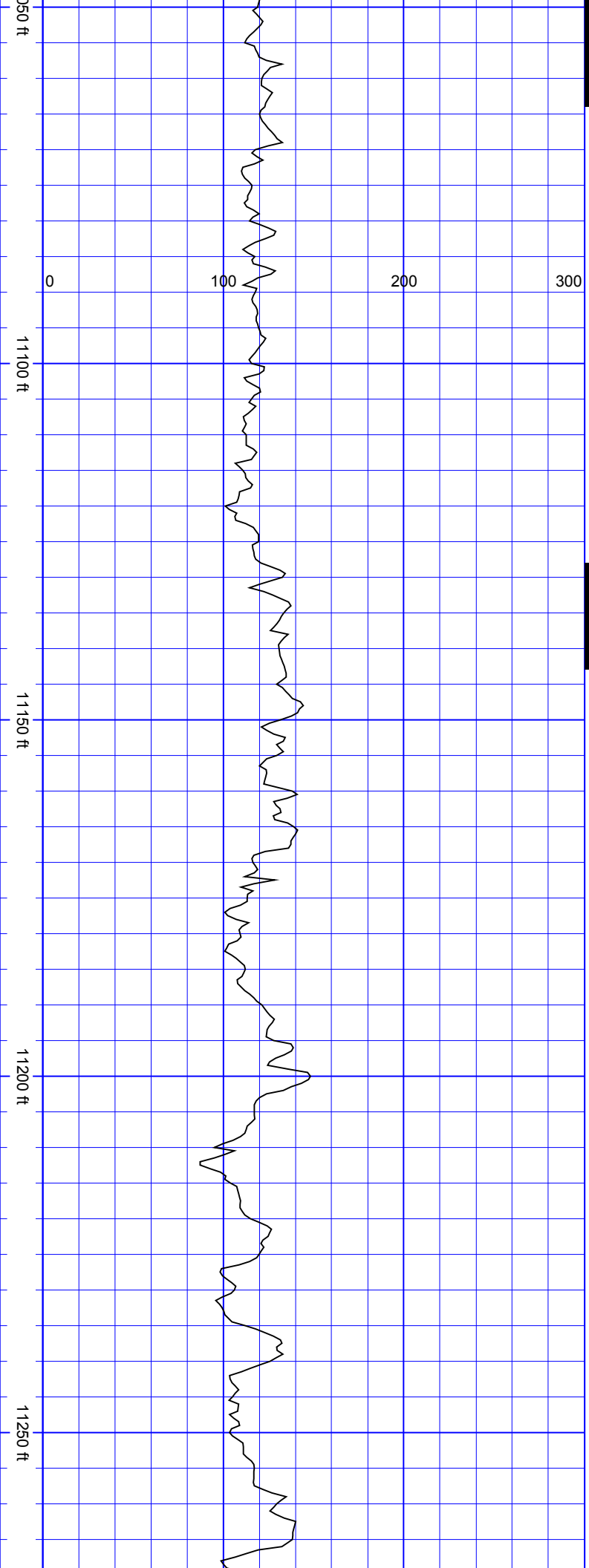
SurveyDepth:10883  
TVD:7144.77 Inc:90.77  
Azi:269.28  
VertSec:3375.71

SSSSSSSS

SurveyDepth:10977  
TVD:7143.46 Inc:90.83  
Azi:268.95  
VertSec:3469.51

SSS





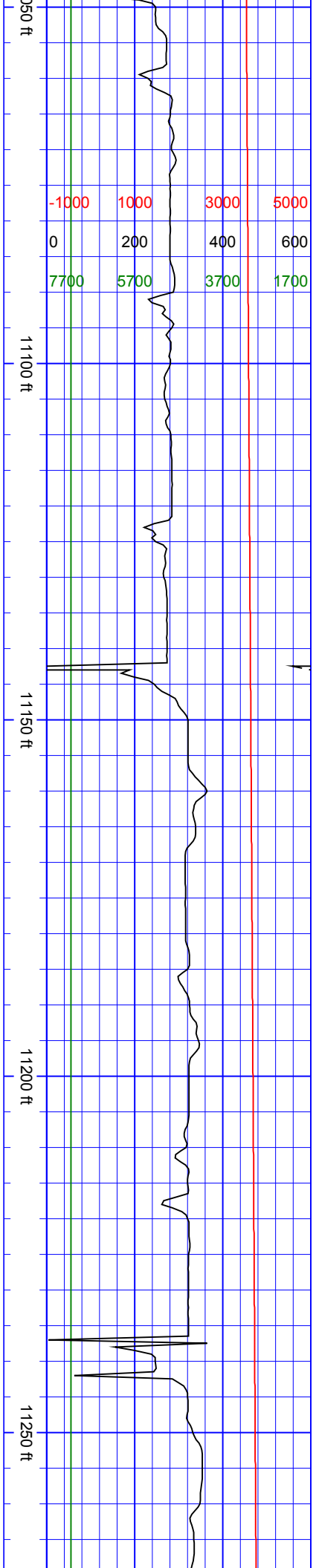
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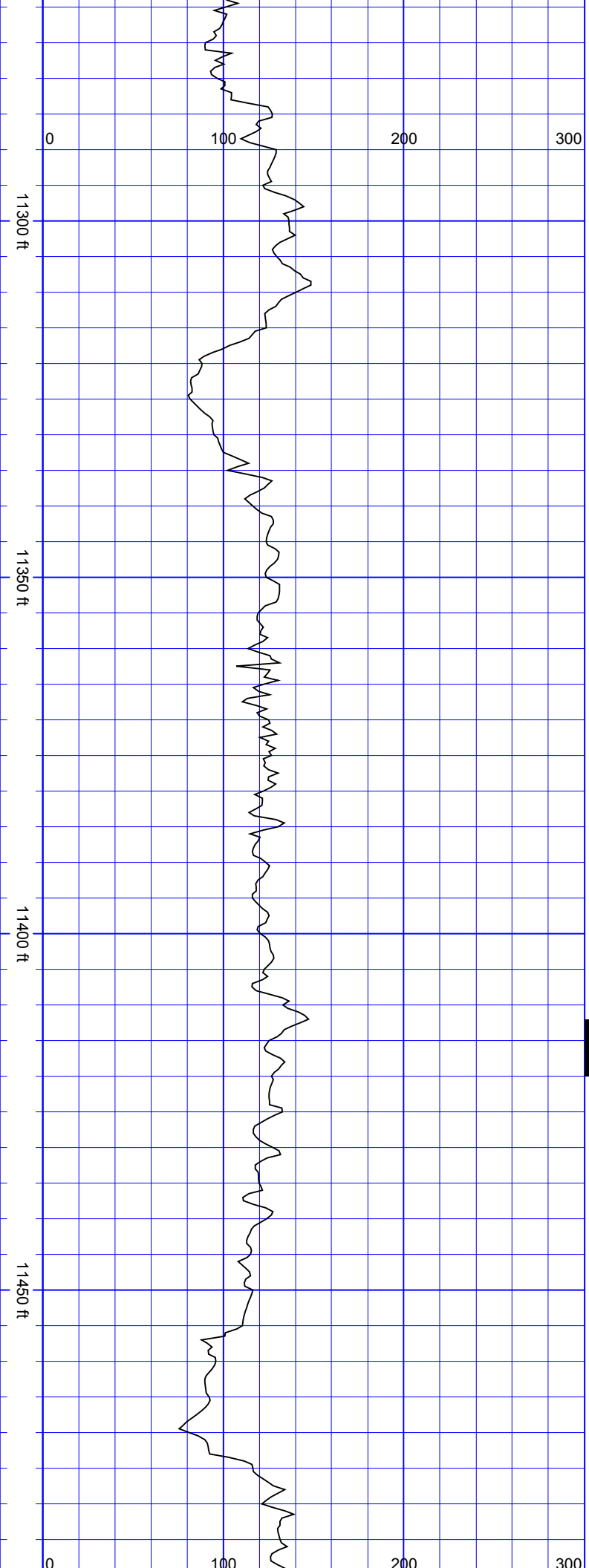
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SurveyDepth:11072  
TVD:7142.54 Inc:90.28  
Azi:268.99  
VertSec:3564.29

SurveyDepth:11167  
TVD:7143.05 Inc:89.1  
Azi:268.8  
VertSec:3659.07

SurveyDepth:11261  
TVD:7145.39 Inc:88.05  
Azi:269 VertSec:3752.82

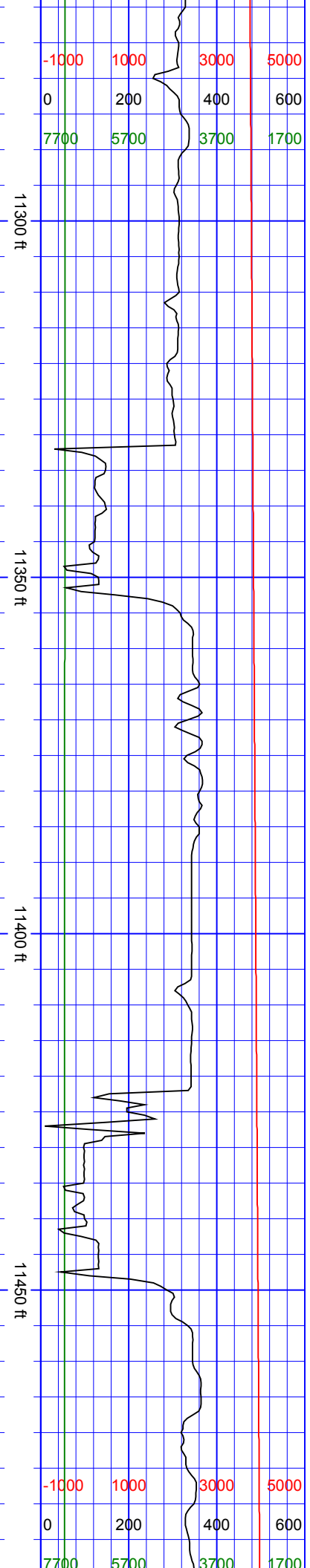


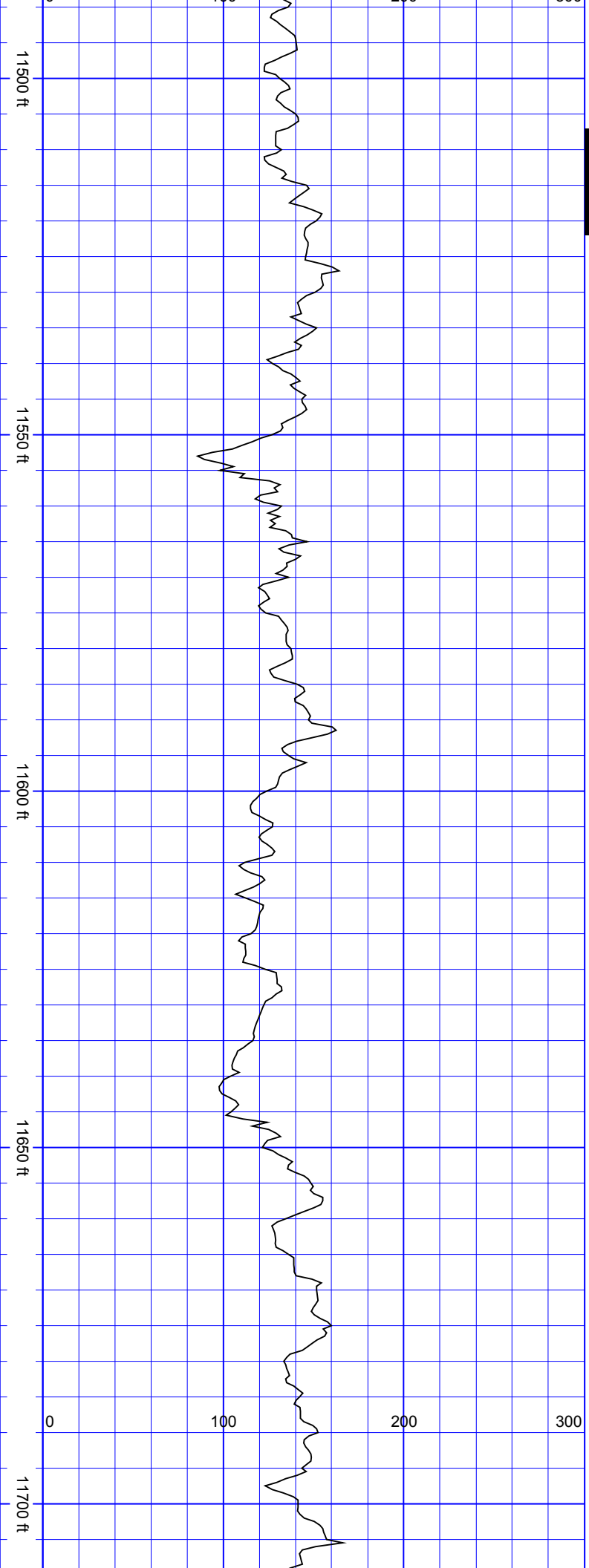


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SurveyDepth:11356  
TVD:7148.51 Inc:88.19  
Azi:270.33  
VertSec:3847.63

SurveyDepth:11450  
TVD:7150.81 Inc:89  
Azi:271.56  
VertSec:3941.55





SurveyDepth:11545  
TVD:7153.02 Inc:88.34  
Azi:271.42  
VertSec:4036.5

SurveyDepth:11639  
TVD:7155.16 Inc:89.05  
Azi:271.45  
VertSec:4130.44

