



CATHEDRAL

Build & Lateral

Job #:

185249

Well ID:

16191024

Scale:

5" = 100 ft

Type:

MD

Well Site Information

Oil Company Crestone Peak Resources

Surface Location S4-T2N-R66W

Well Name DAVIS 1F-9H-G266

API 05-123-46520-00

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 1,299,962.49 us/ft

E / W Coordinates 3,201,860.08 us/ft

Azimuth Reference True North

Grid Convergence 0.47°

MWD Engineers

Lead Hand Bob Stahlecker

Second Hand Kyle Regan

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 14,715.00 ft Spud Date Aug/24/2018 End Date Aug/27/2018

(MD) Log Interval Start Depth 2,141.49 ft End Depth 14,715.09 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	14,715.00 ft

Casing Record

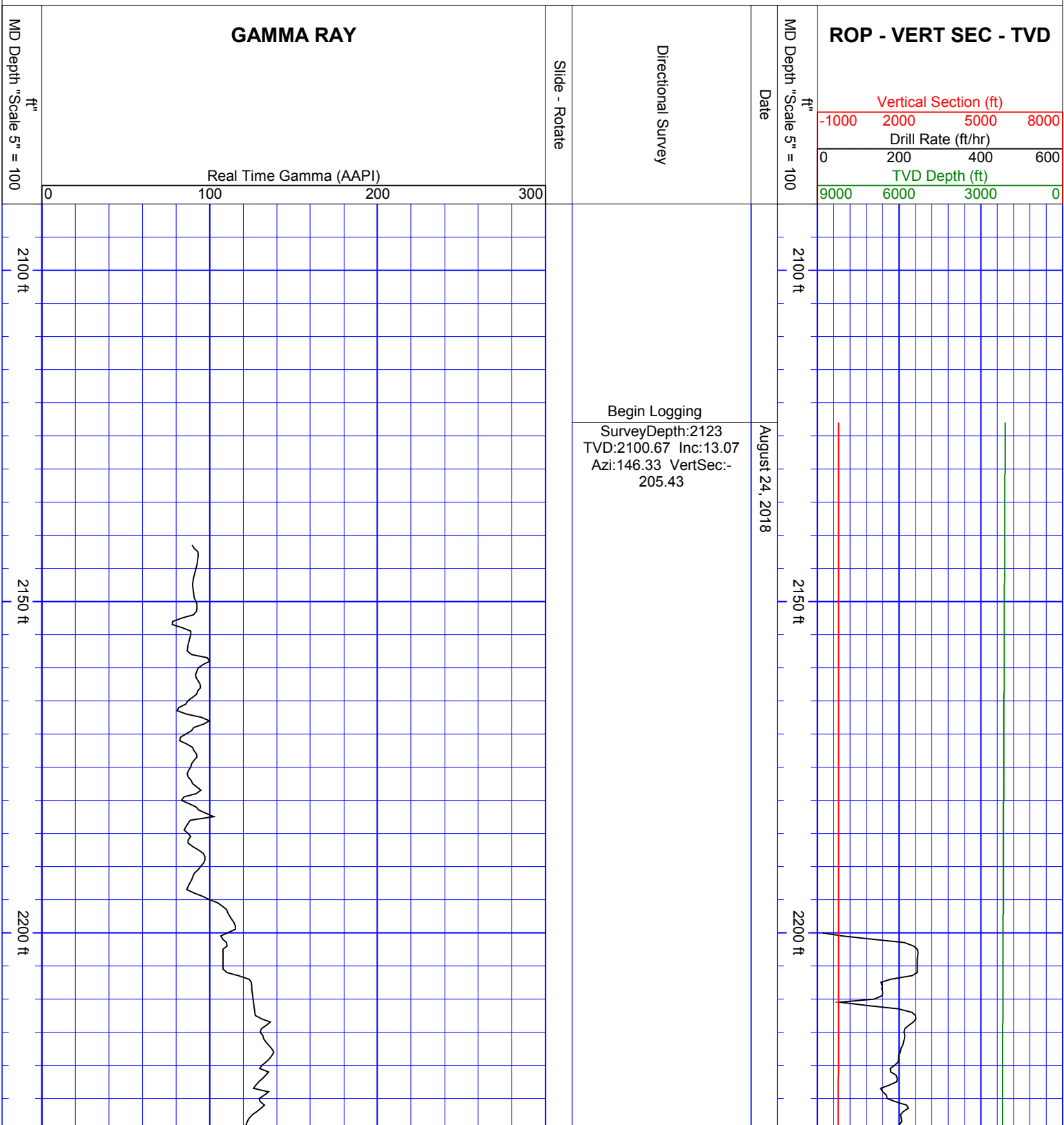
Type	Size	WGT	From	To
LT&C	9.63 in	40.00 lbs/ft	0.00 ft	2,200.00 ft
DW/C	5.50 in	20.00 lbs/ft	0.00 ft	14,715.00 ft

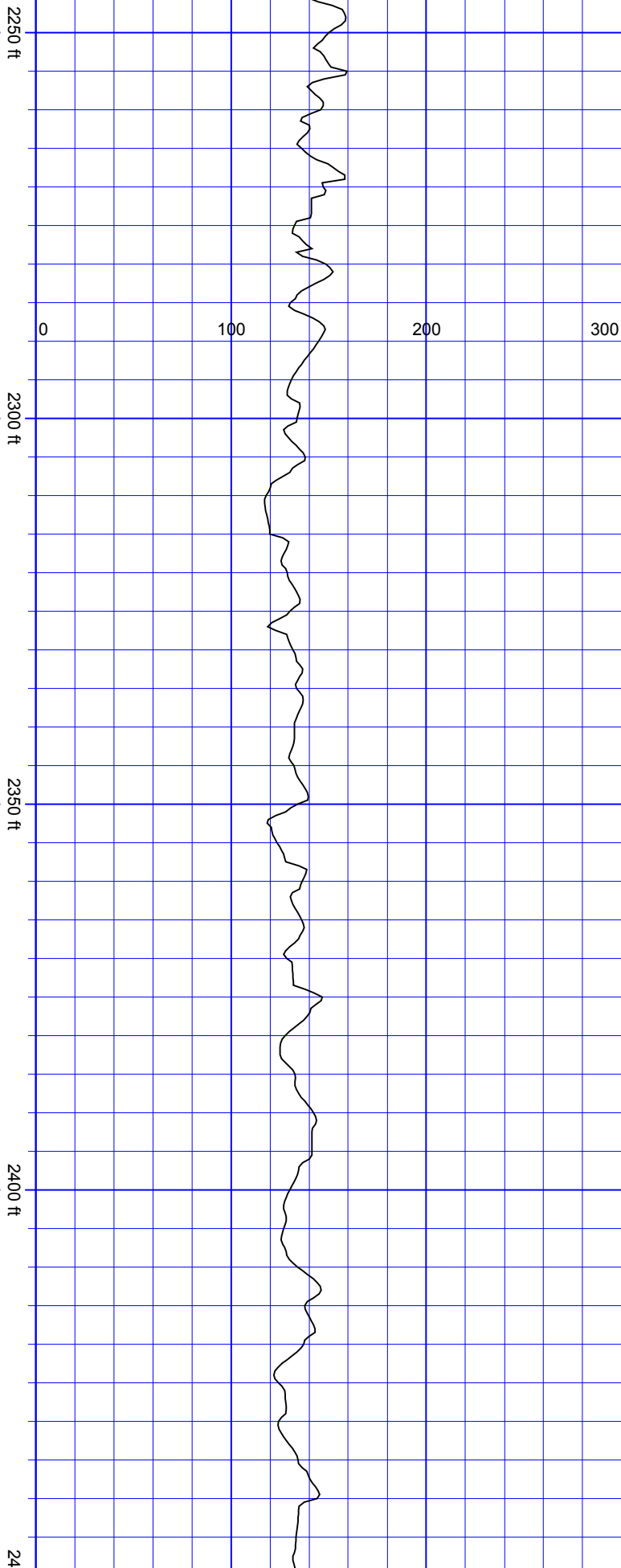
Run Data

Bit Run Number	1				
Start Date & Time	Aug/24/2018 05:30:00				
End Date & Time	Aug/27/2018 19:30:00				
Run Hours	86.00				
Depth In	2,200.00 ft				
Depth Out	14,715.00 ft				
Total Gamma Correction	5.40				
Gamma to Bit	59.09 ft				
Resistivity to Bit	-				
Mud Type	Oil Base				
Density	10.30 ppg				
Viscosity	49.00 sec/qt				
PH	-				
Fluid Loss	-				
K+ ppm	-				
CL- ppm	225,134.00 ppm				
Max Mud Temp	260.00 °F				
Mud Report Depth	14,325.00 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.

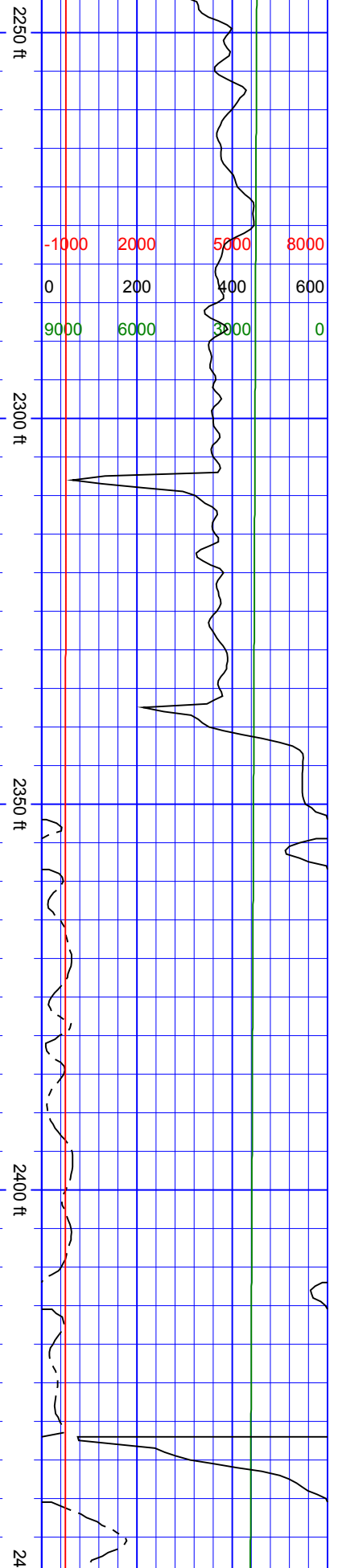


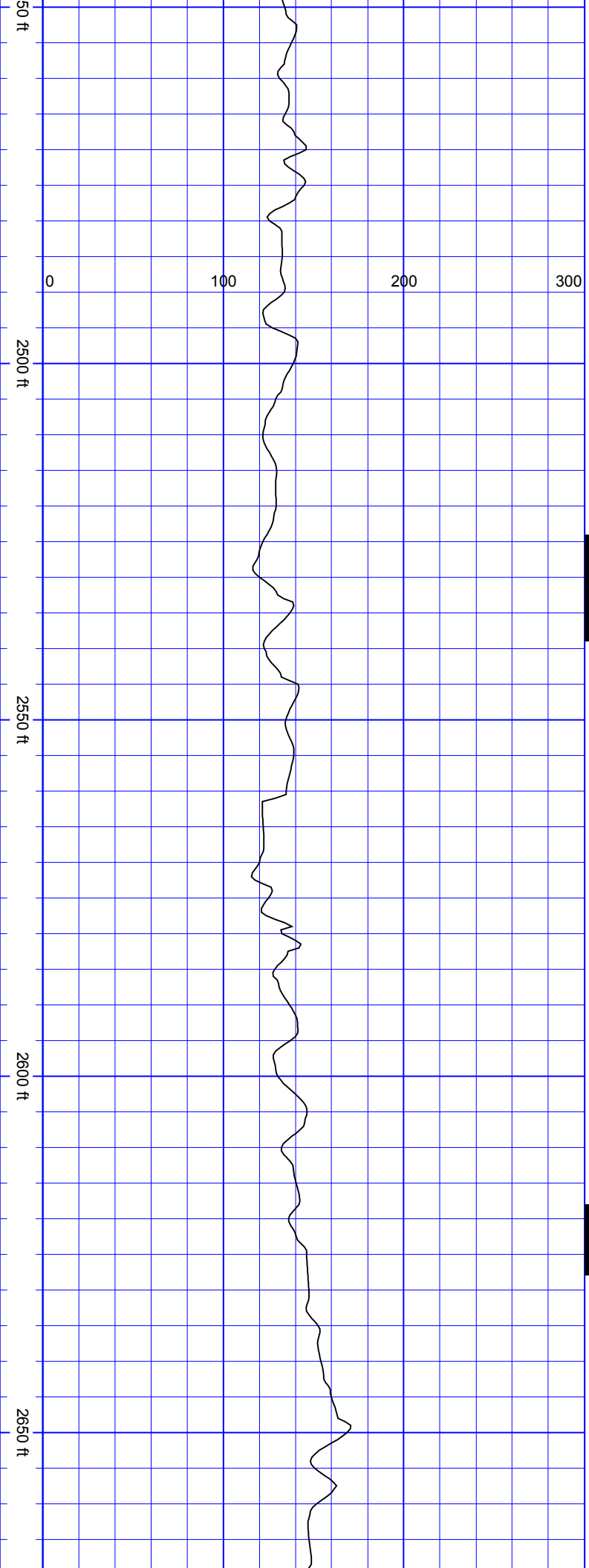


SurveyDepth:2240  
TVD:2214.97 Inc:11.6  
Azi:146.42 VertSec:-  
224.62

SurveyDepth:2272  
TVD:2246.32 Inc:11.47  
Azi:144.14 VertSec:-  
229.45

SurveyDepth:2366  
TVD:2338.52 Inc:10.99  
Azi:143.08 VertSec:-  
242.92





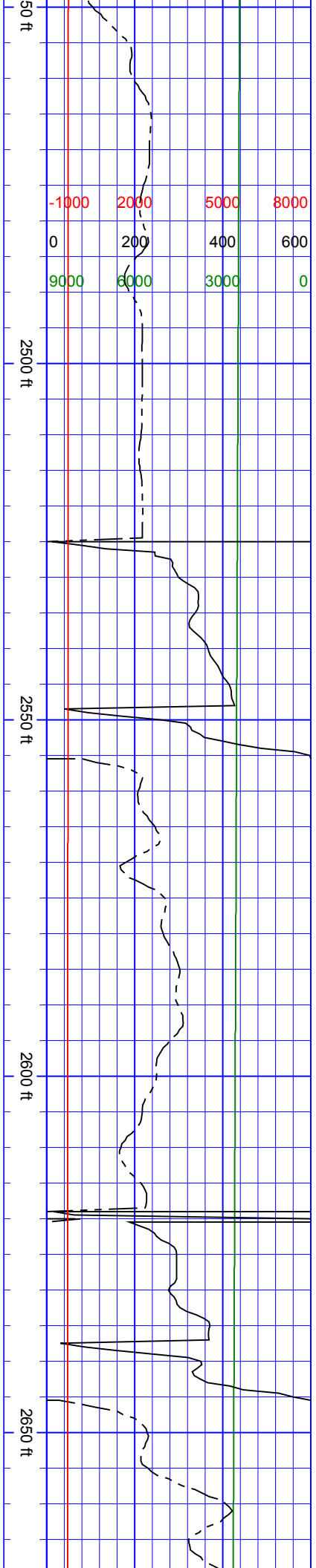
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Azi:141.59 VertSec:-  
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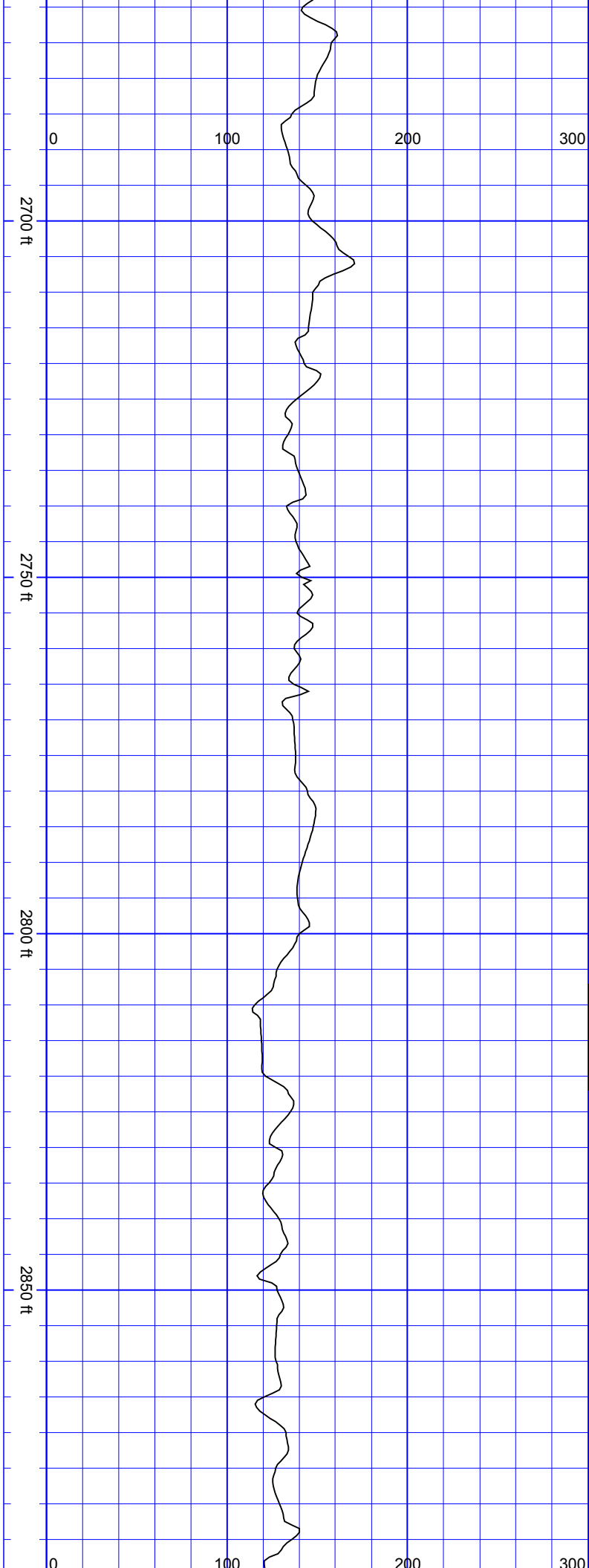
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TVD:2523.25 Inc:11.6  
Azi:143.88 VertSec:-  
268.18

SurveyDepth:2649  
TVD:2616.31 Inc:11.6  
Azi:149.68 VertSec:-  
282.91

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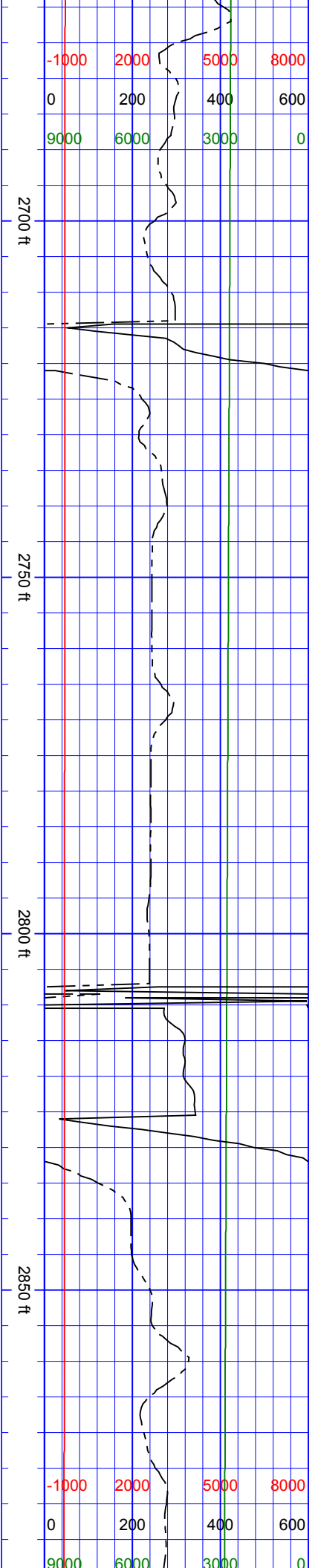


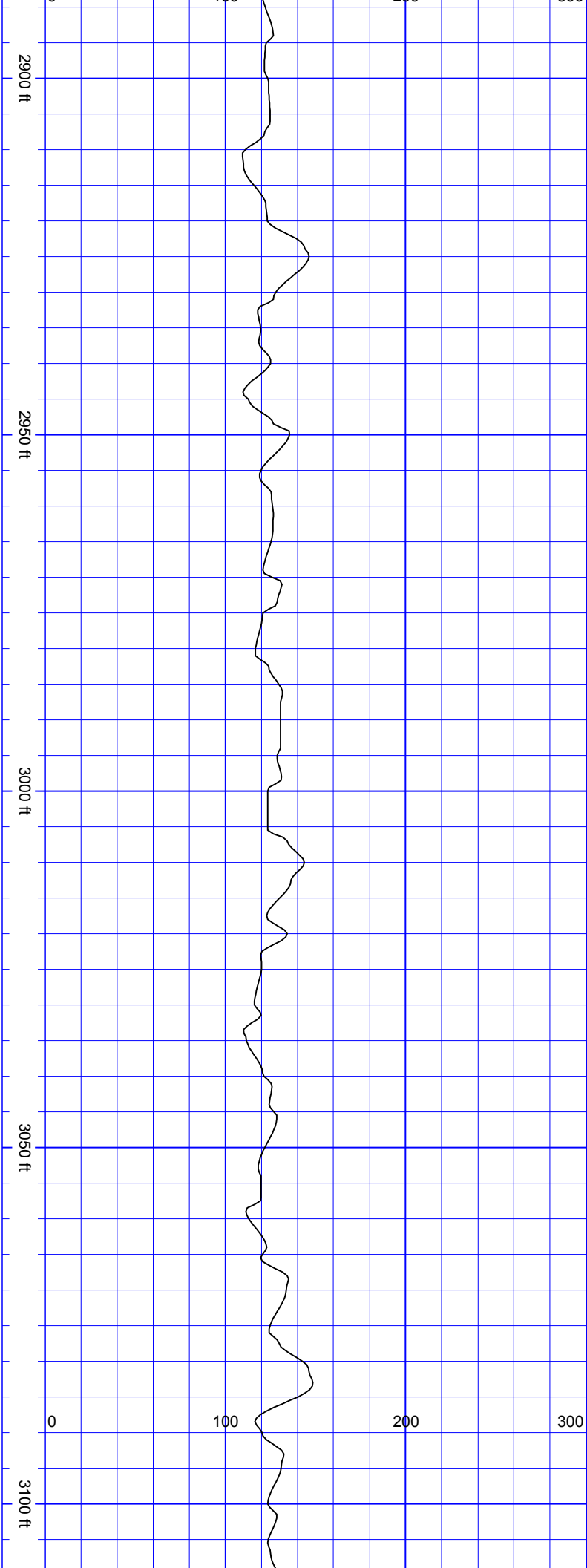


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TVD:2708.57 Inc:10.46  
Azi:146.95 VertSec:-  
297.1

SurveyDepth:2837  
TVD:2800.66 Inc:12.7  
Azi:153.9 VertSec:-  
312.44

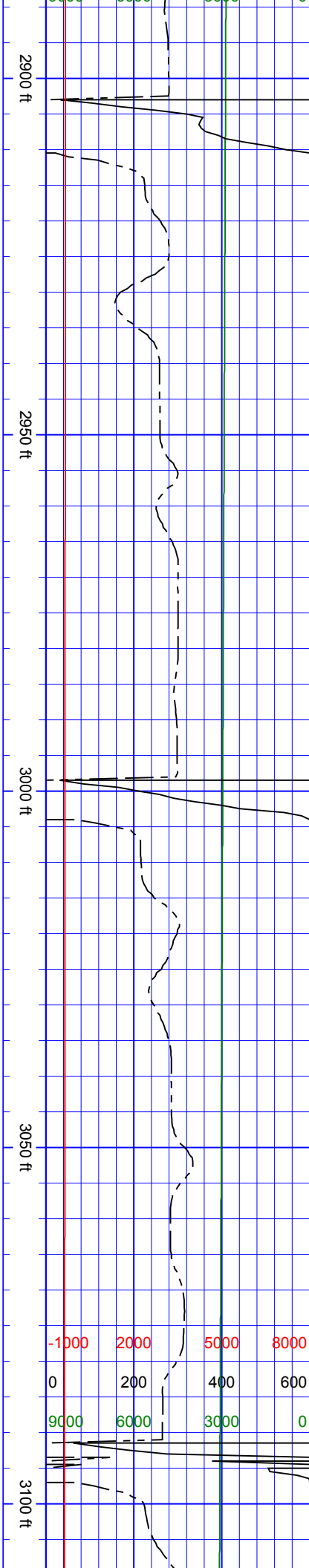
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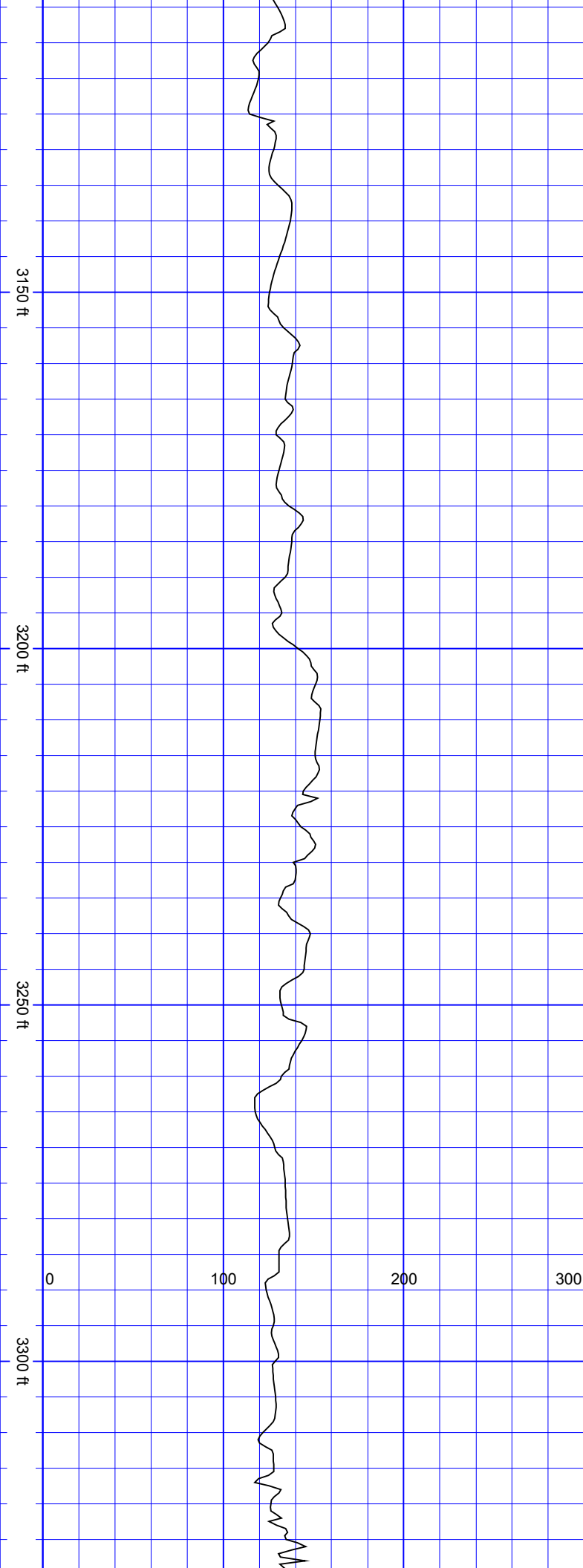




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TVD:2893.43 Inc:12.17  
Azi:152.31 VertSec:-  
329.57

SurveyDepth:3027  
TVD:2986.4 Inc:11.56  
Azi:151.52 VertSec:-  
345.7



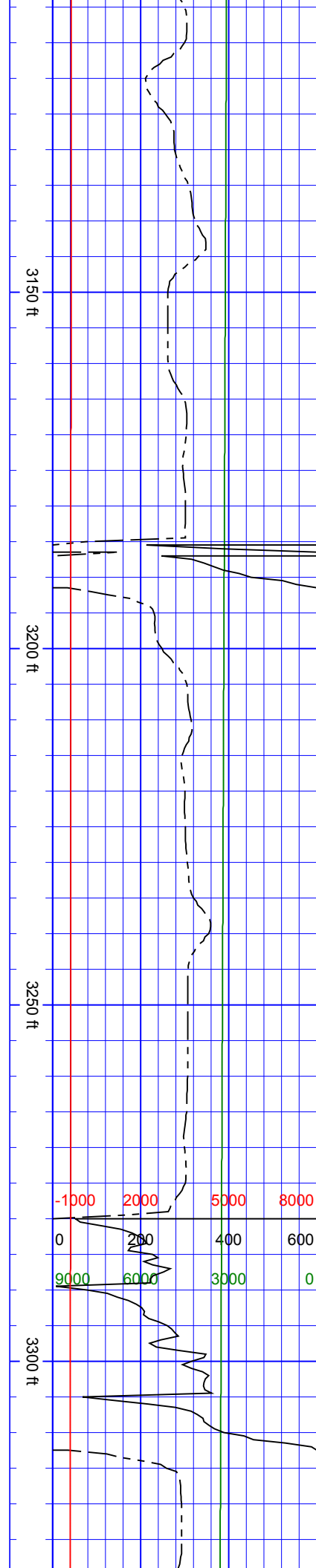


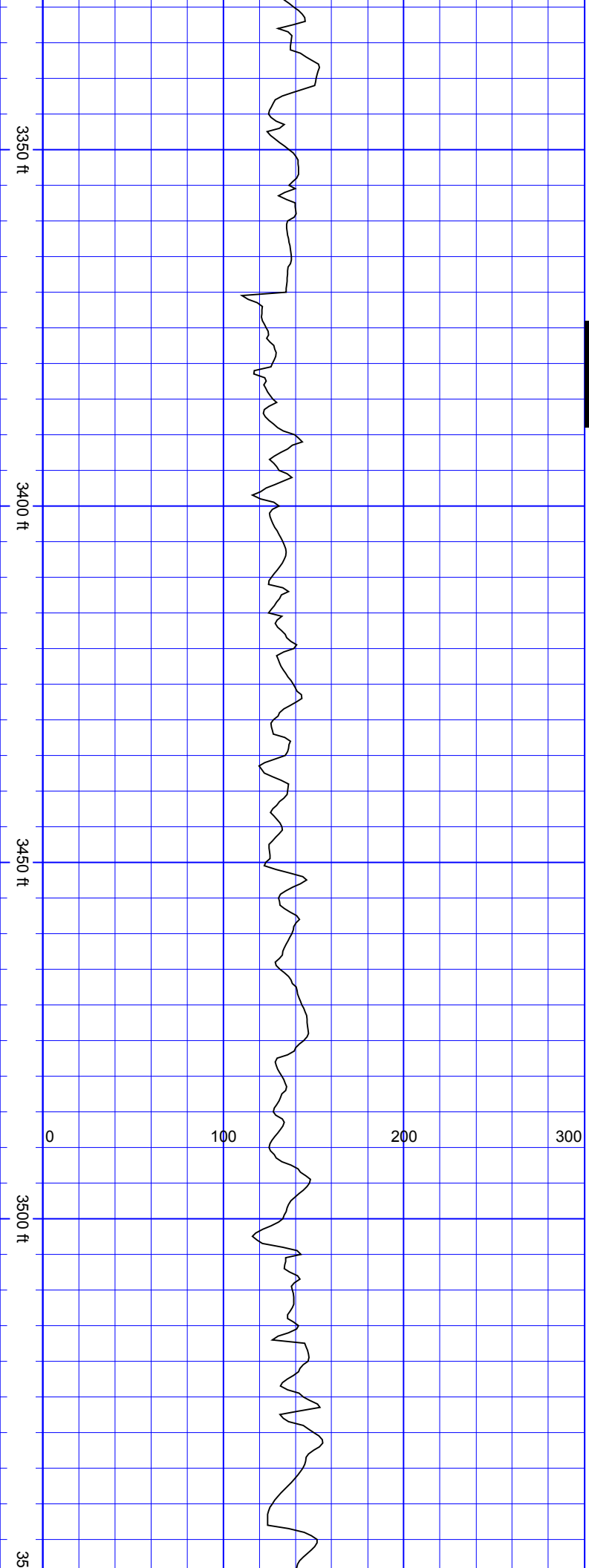
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TVD:3078.63 Inc:10.72  
Azi:151.52 VertSec:-  
360.63

SurveyDepth:3215  
TVD:3171.16 Inc:9.54  
Azi:149.85 VertSec:-  
374.09

SurveyDepth:3310  
TVD:3264.86 Inc:9.45  
Azi:151.7 VertSec:-  
386.85

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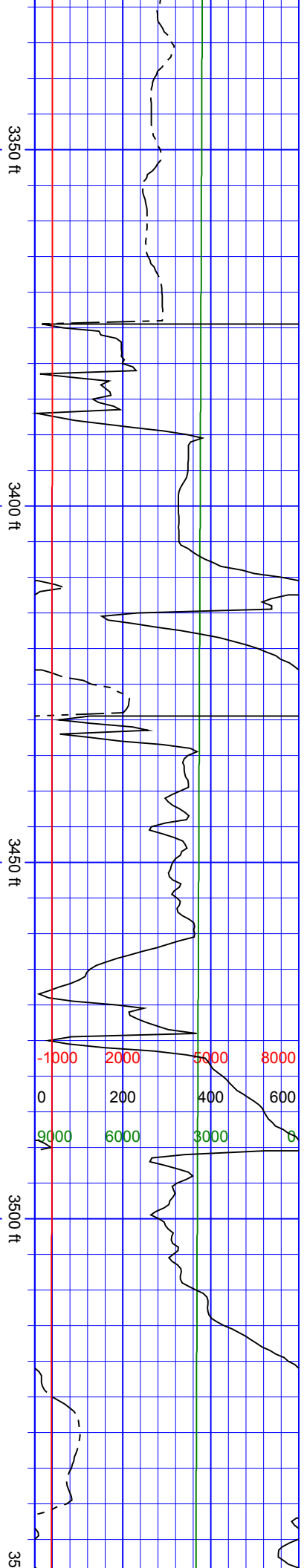




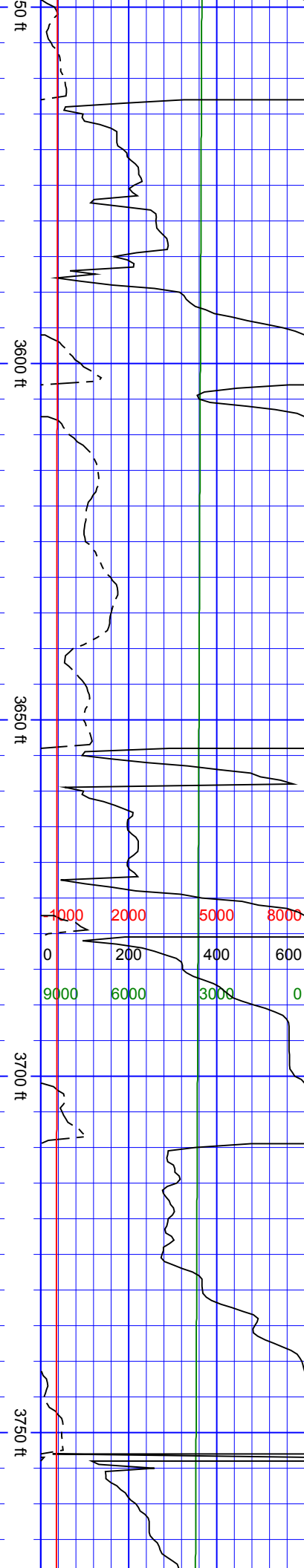
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SurveyDepth:3499  
TVD:3450.66 Inc:9.98  
Azi:153.02 VertSec:-415.76

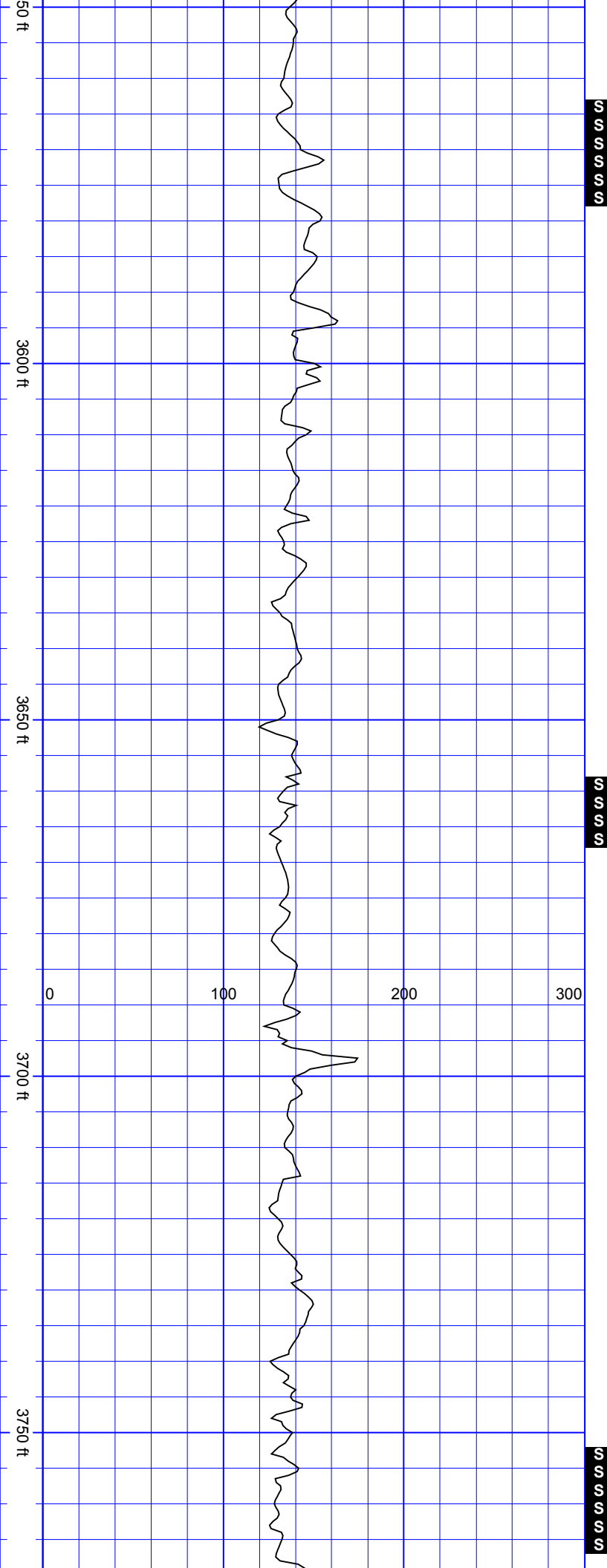


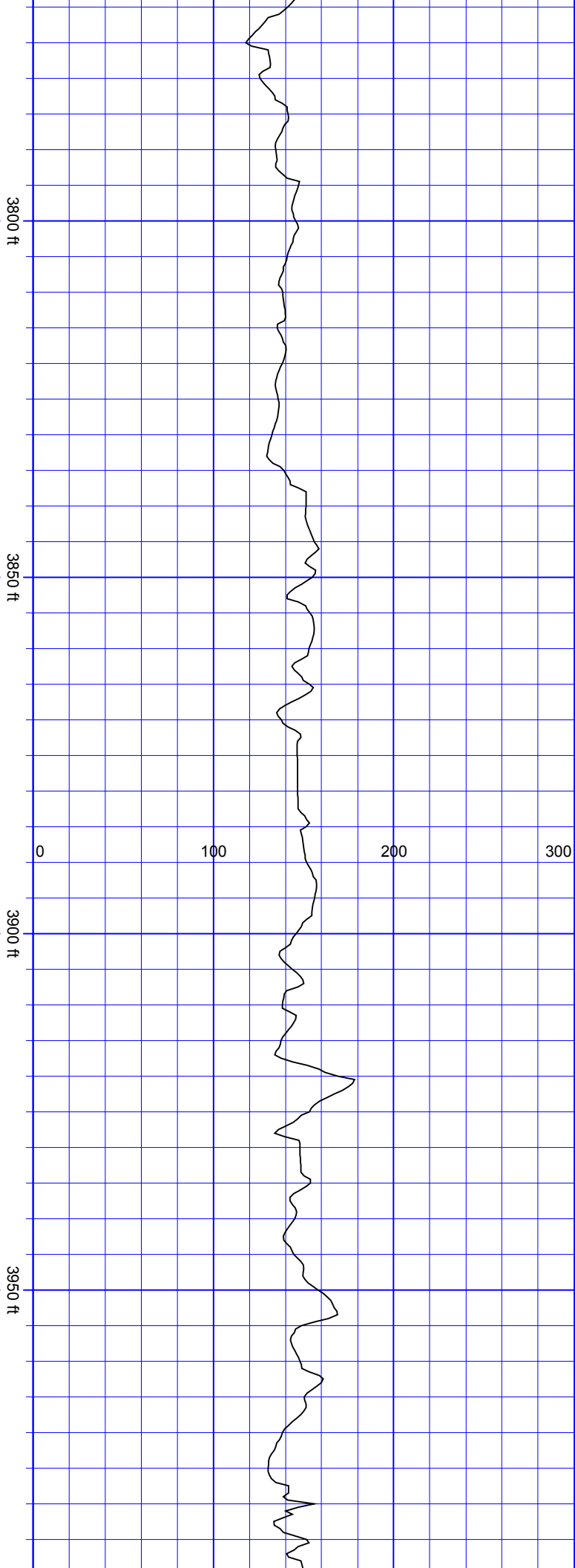




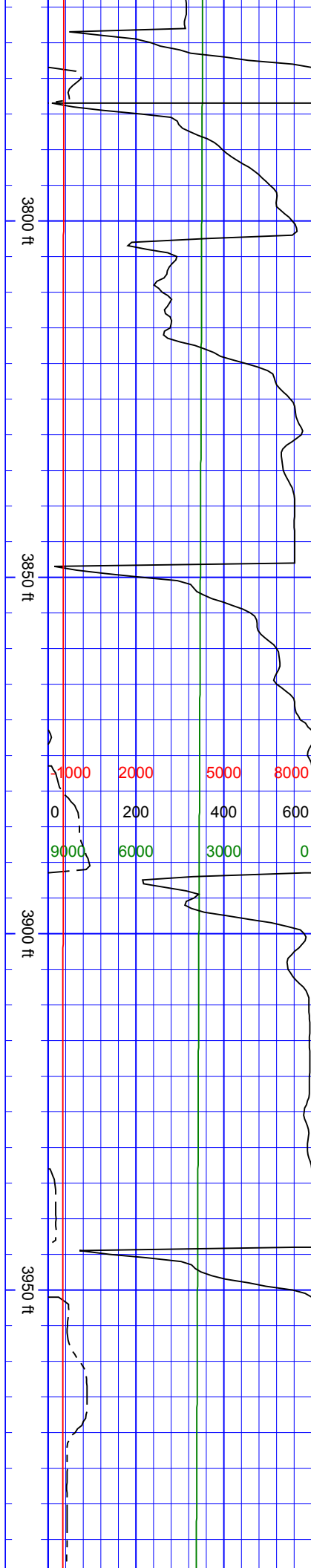
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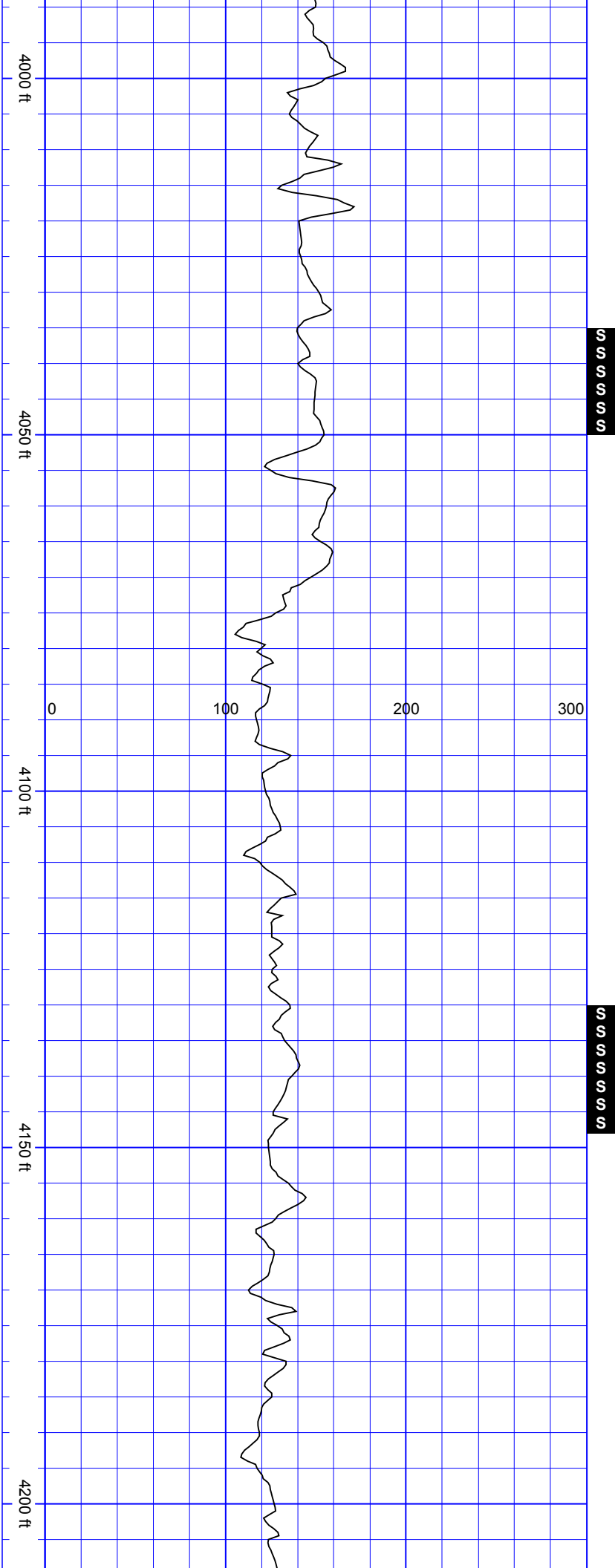
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TVD:3636.16 Inc:11.91  
Azi:150.64 VertSec:-  
445.18





SurveyDepth:3783 TVD:3728.89 Inc:13.18 Azi:148.36 VertSec:-461.7	SurveyDepth:3877 TVD:3820.69 Inc:11.65 Azi:146.78 VertSec:-477.49	SurveyDepth:3971 TVD:3913 Inc:10.11 Azi:147.04 VertSec:-491.21
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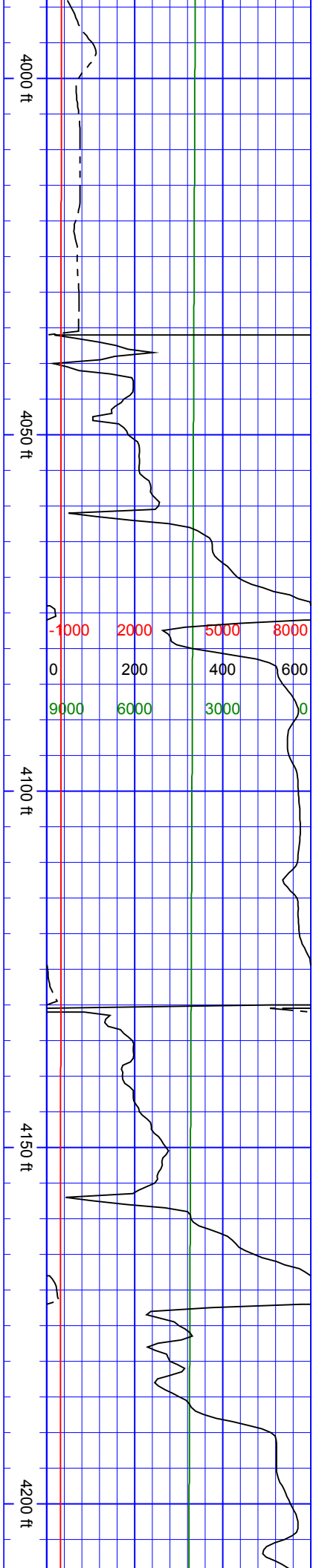


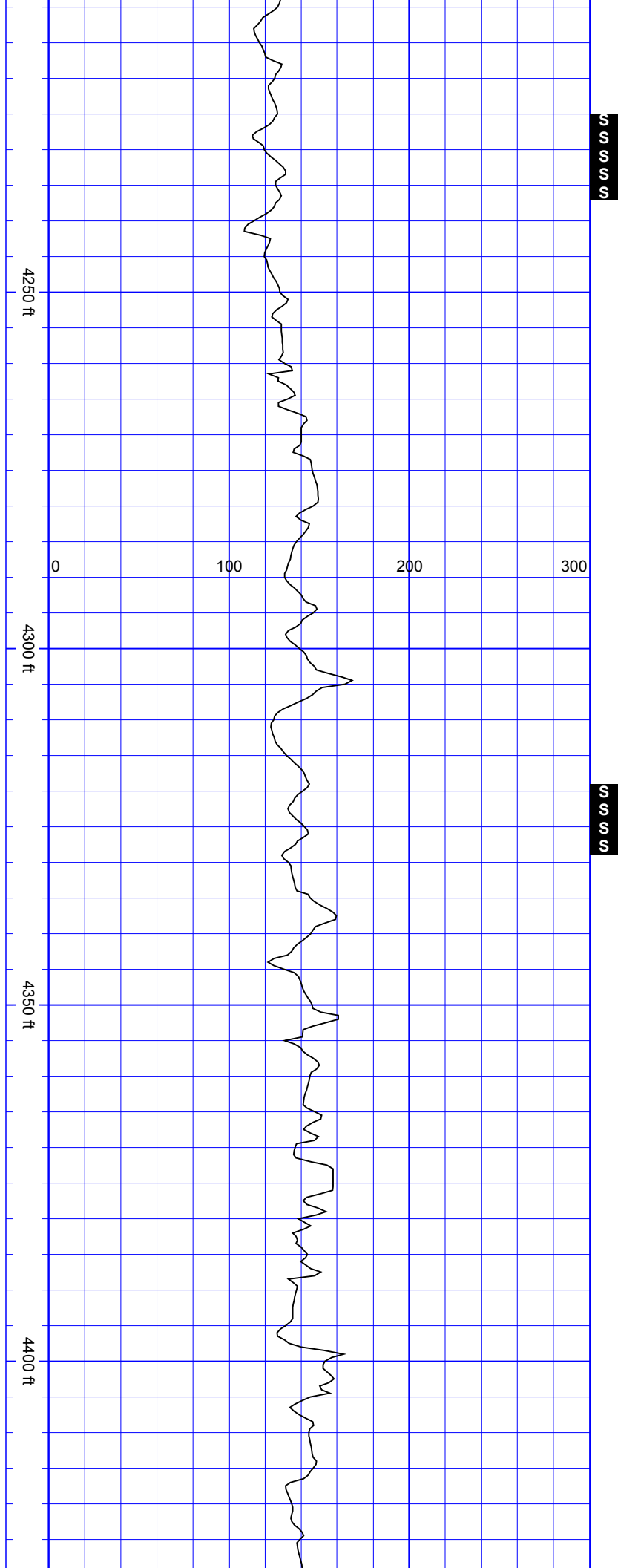
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Azi:146.34 VertSec:-  
503.66

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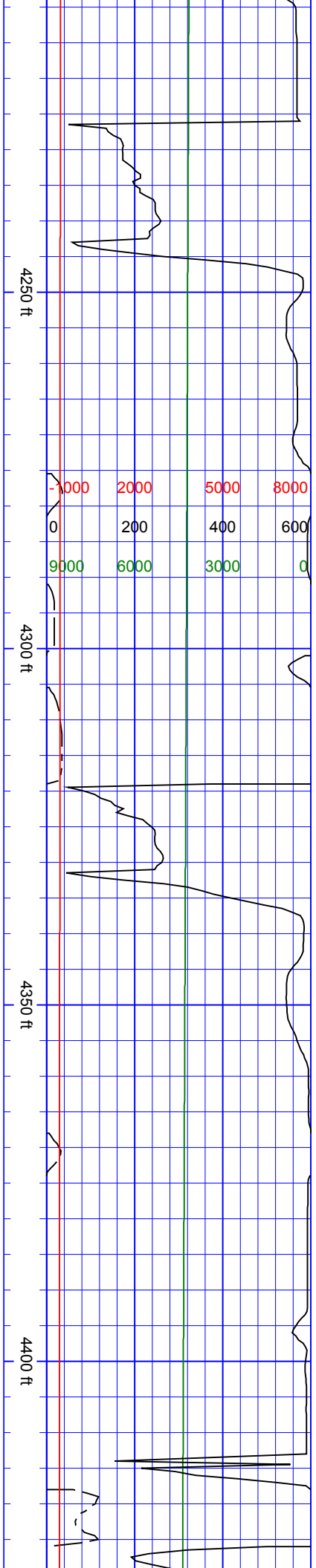
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Azi:137.72 VertSec:-  
516.54

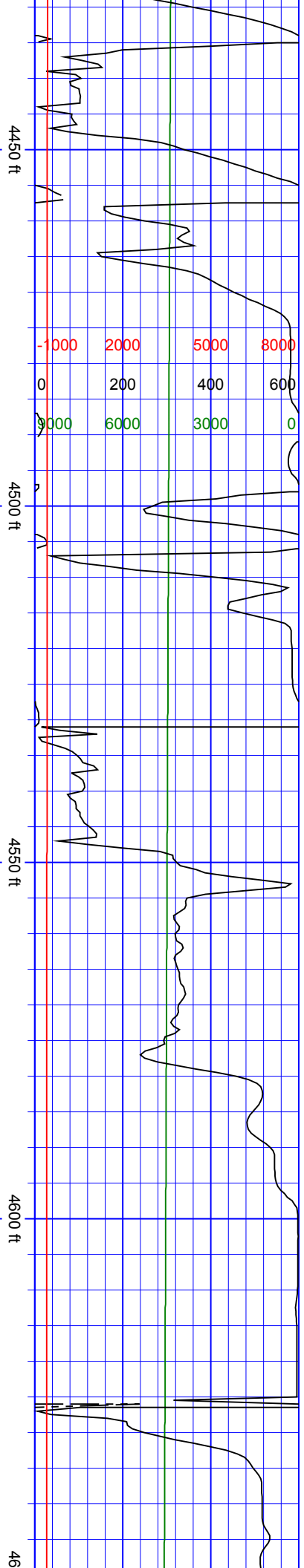




SurveyDepth:4255  
TVD:4191.22 Inc:14.46  
Azi:142.29 VertSec:-  
531.82

SurveyDepth:4372  
TVD:4305.28 Inc:11.25  
Azi:148.53 VertSec:-  
551.37



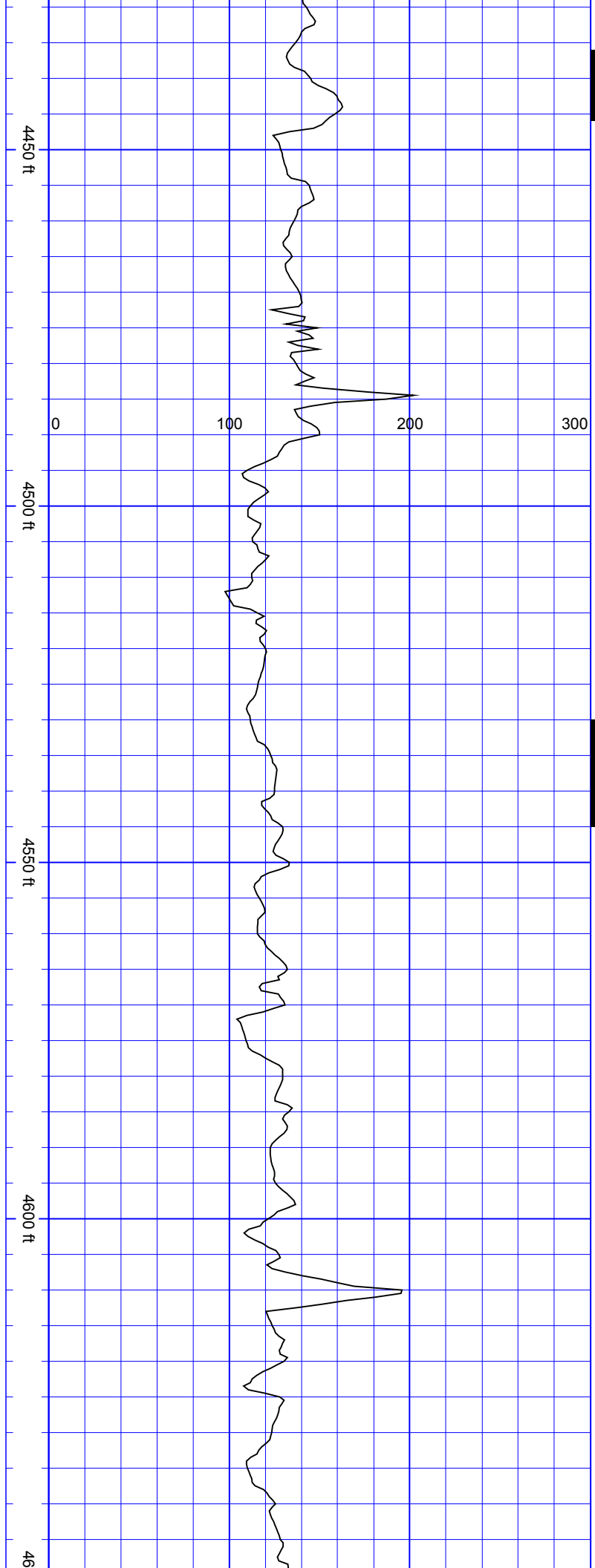


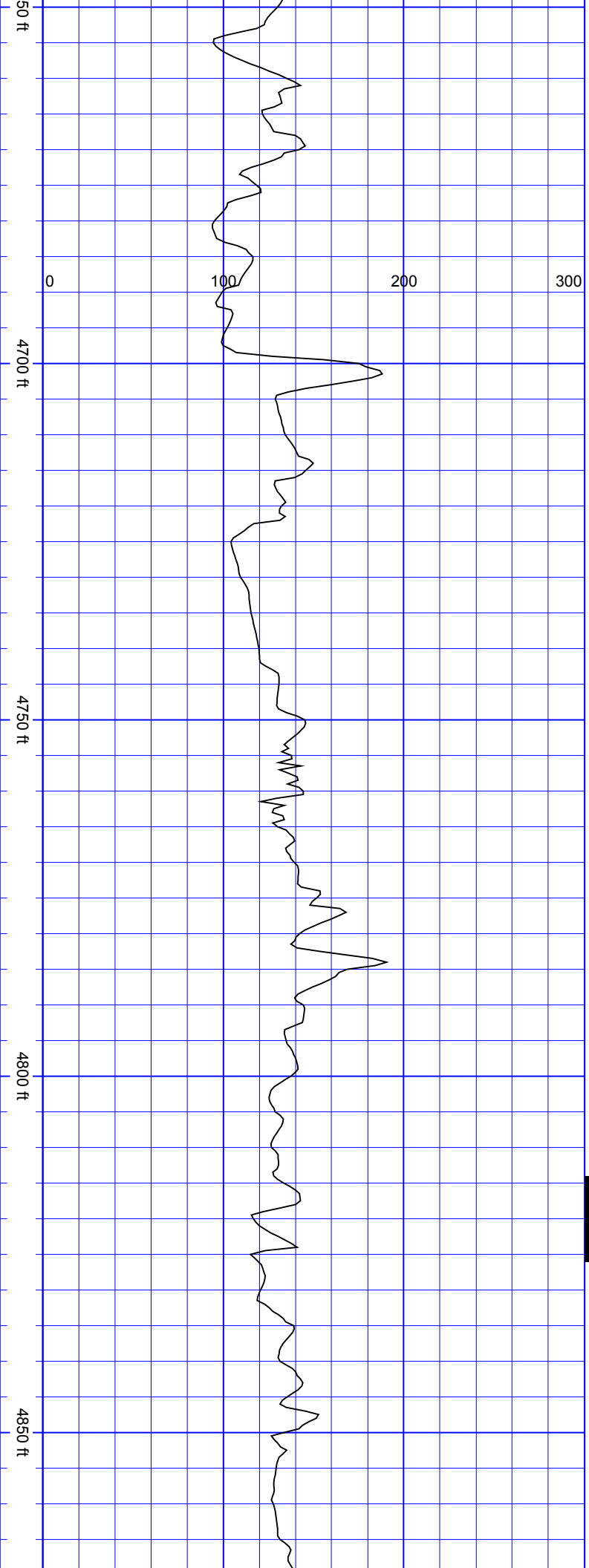
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TVD:4397.52 Inc:10.99  
Azi:144.4 VertSec:-565.3

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SurveyDepth:4561  
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Azi:148.97 VertSec:-580.27

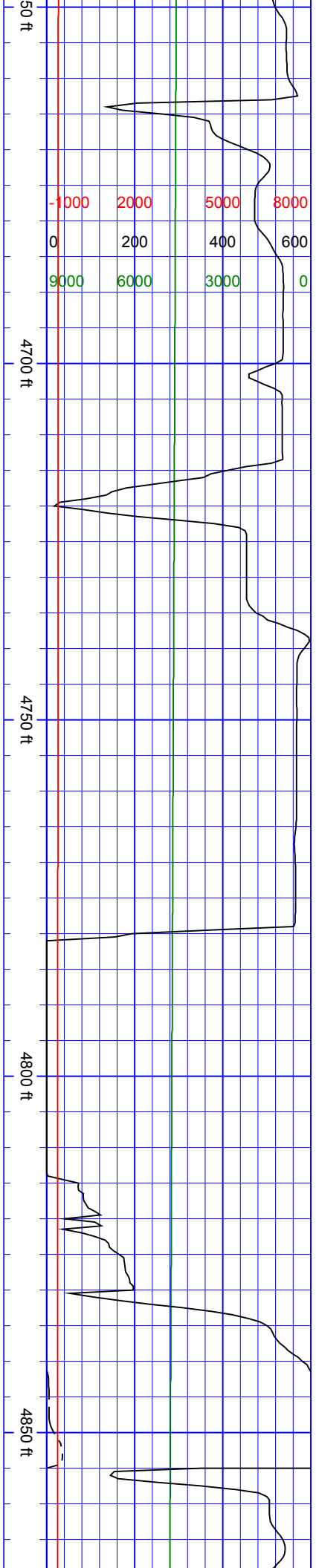


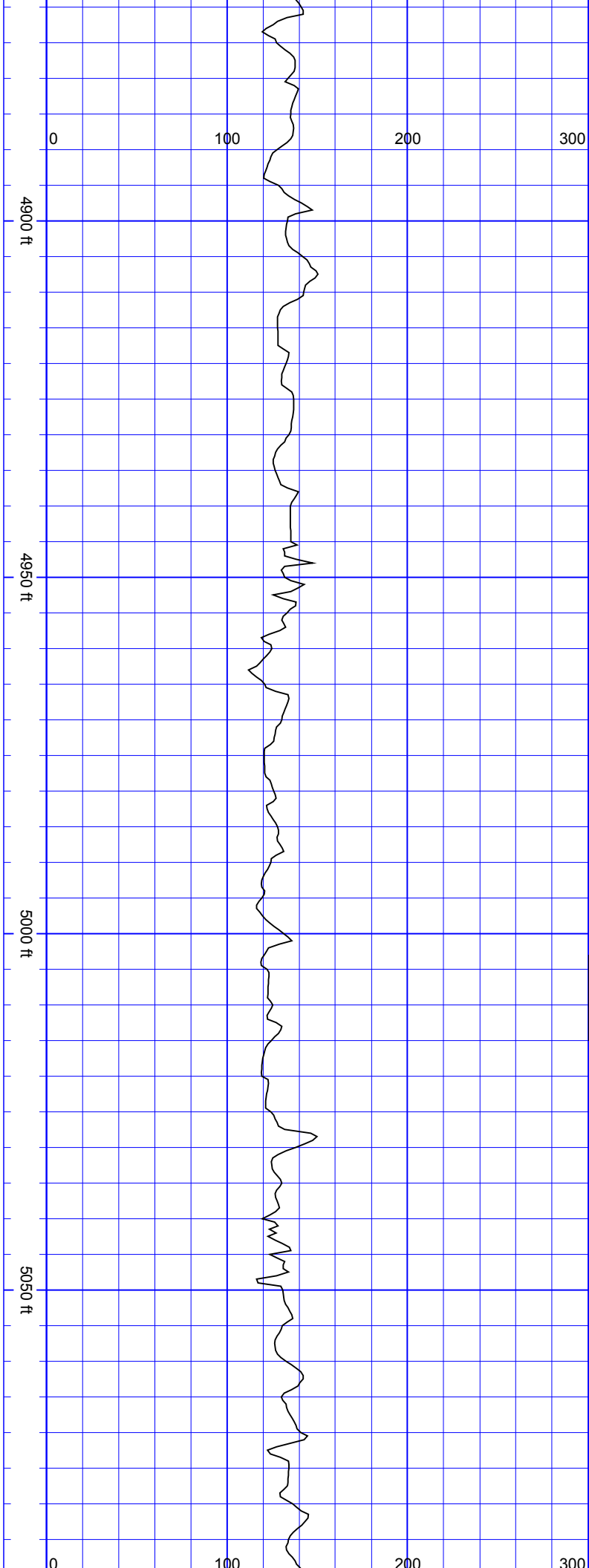


SurveyDepth:4655  
TVD:4582.57 Inc:10.77  
Azi:146.78 VertSec:-  
595.19

SurveyDepth:4750  
TVD:4676.08 Inc:9.58  
Azi:144.23 VertSec:-  
607.92

SurveyDepth:4844  
TVD:4768.57 Inc:10.99  
Azi:150.56 VertSec:-  
621.01

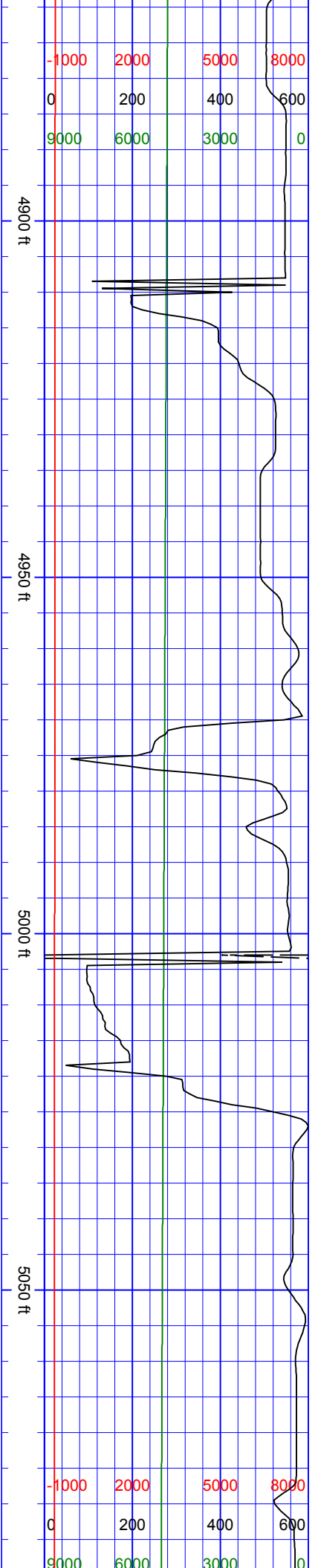


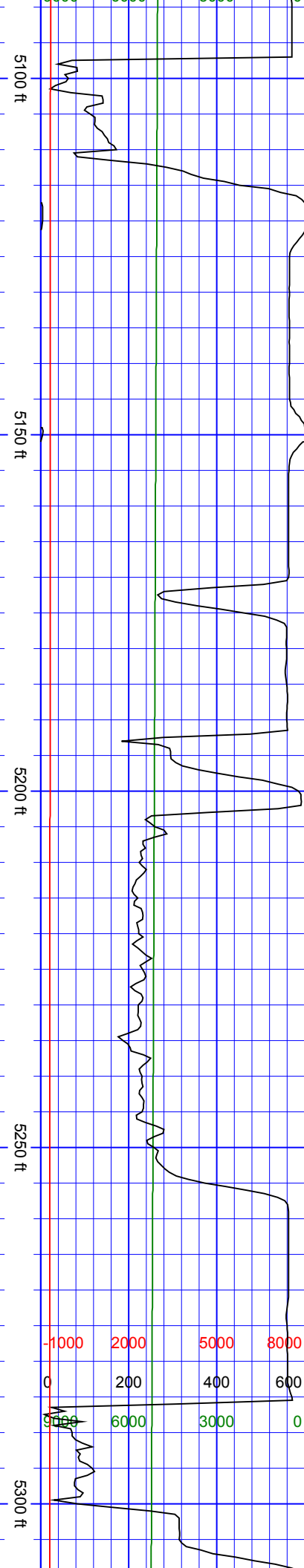


SurveyDepth:4939  
TVD:4861.96 Inc:10.11  
Azi:146.78 VertSec:-  
634.8

SurveyDepth:5033  
TVD:4954.32 Inc:11.29  
Azi:148.62 VertSec:-  
648.46

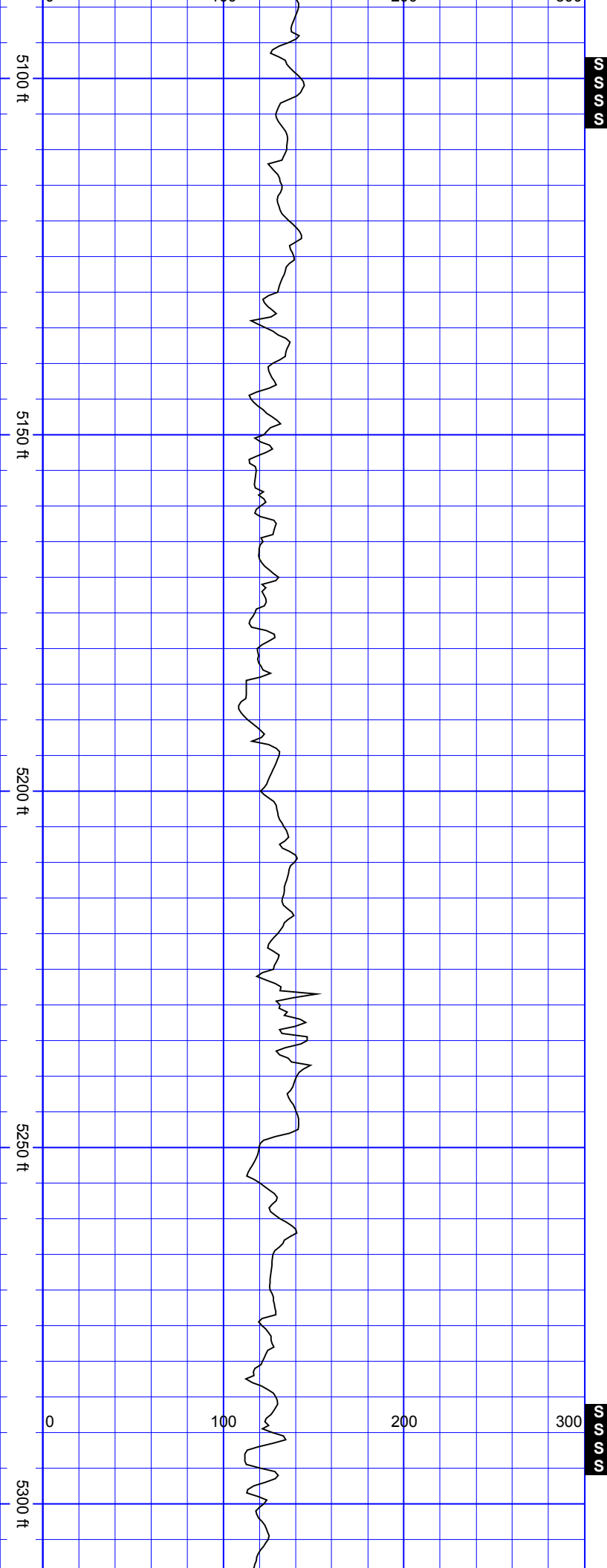
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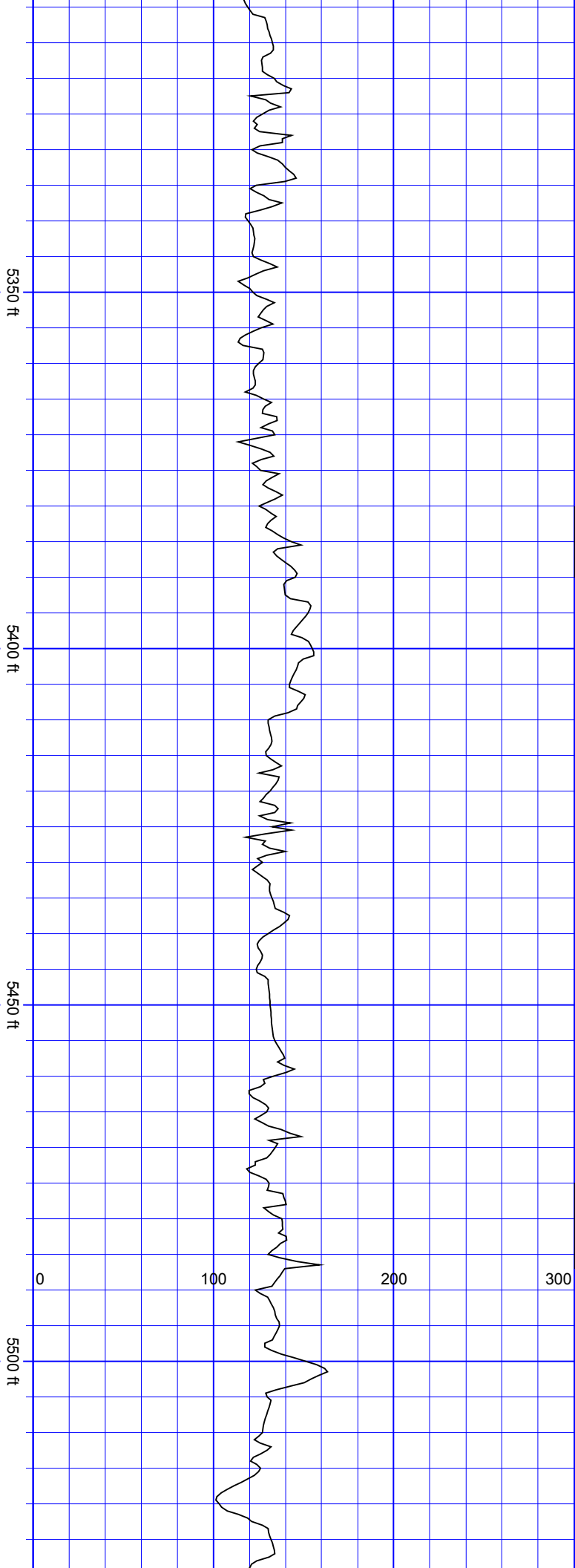


SurveyDepth:5127  
TVD:5046.43 Inc:11.78  
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663.53

SurveyDepth:5222  
TVD:5139.54 Inc:11.12  
Azi:147.74 VertSec:-  
678.56







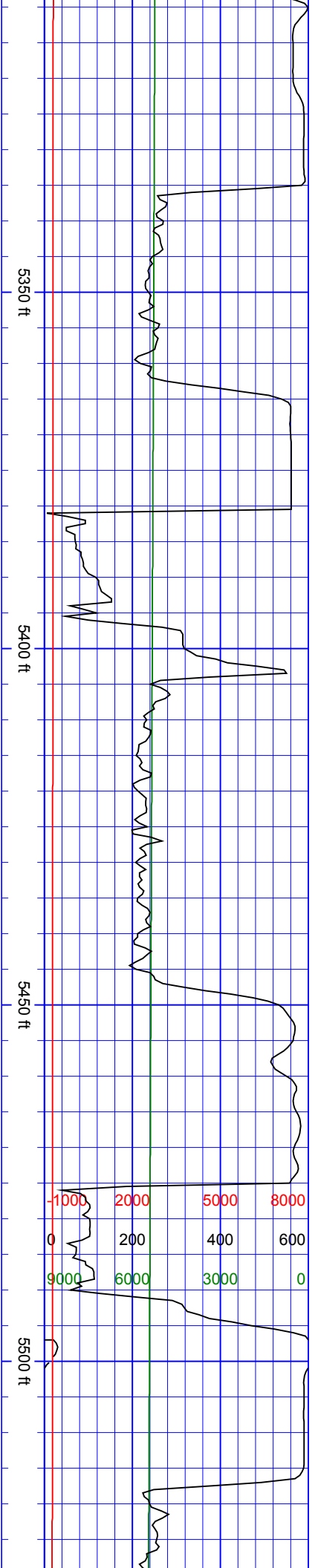
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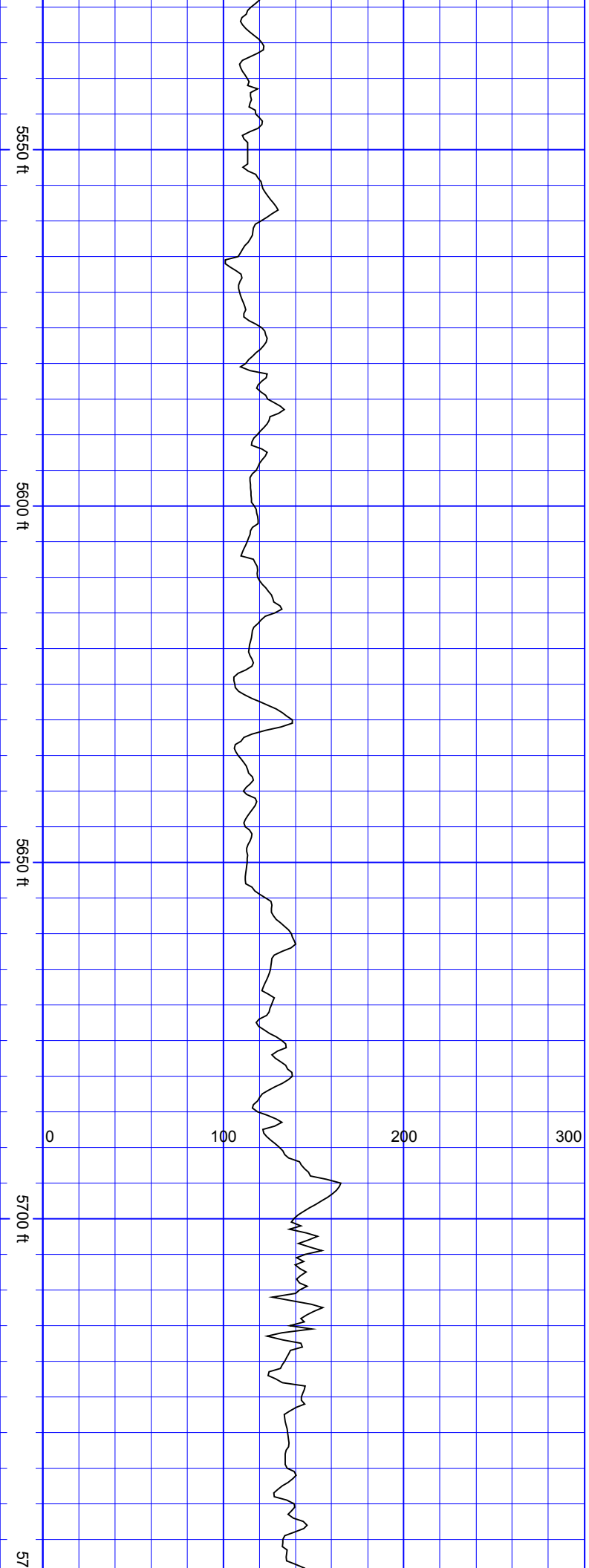
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SurveyDepth:5316  
TVD:5231.69 Inc:11.65  
Azi:142.38 VertSec:-  
692.49

SurveyDepth:5411  
TVD:5324.63 Inc:12.22  
Azi:143.35 VertSec:-  
706.78

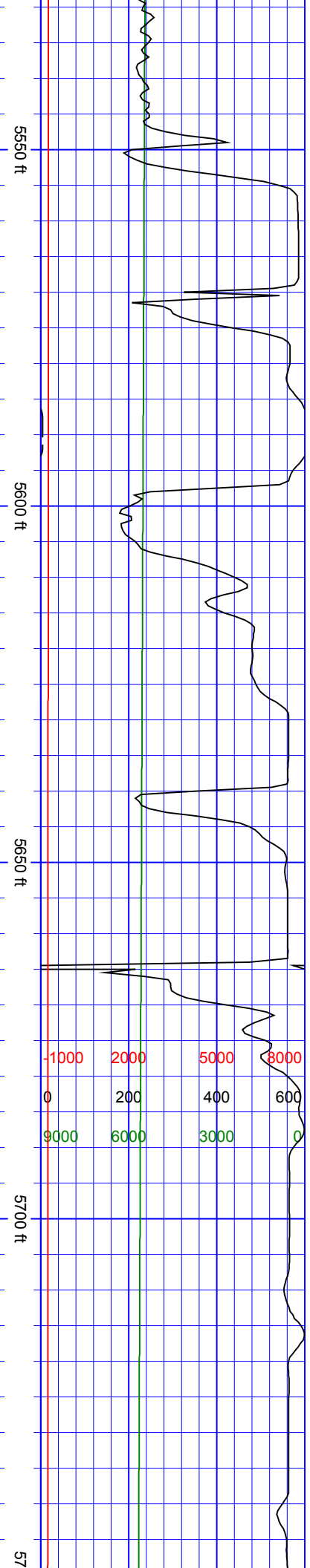
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Azi:149.06 VertSec:-  
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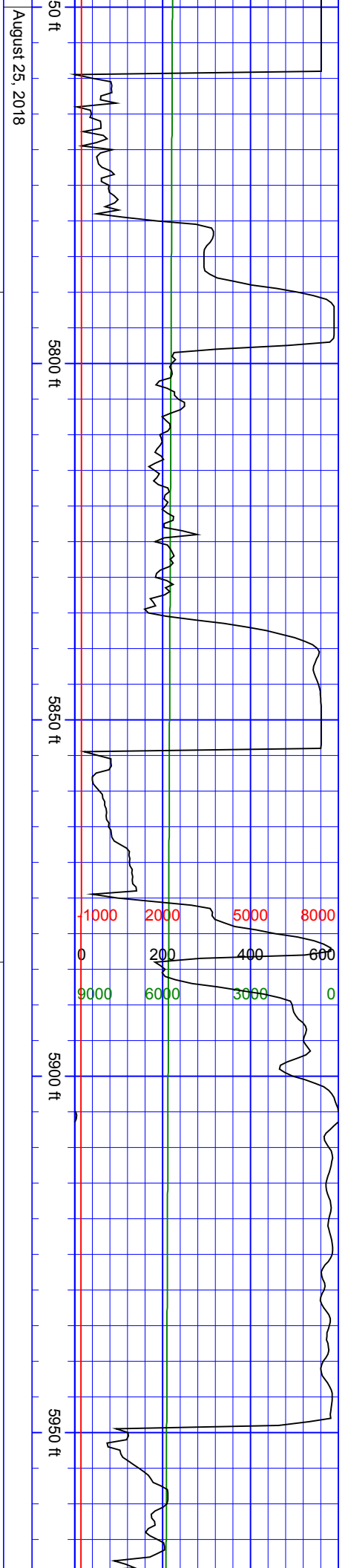




SurveyDepth:5600  
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Azi:151.43 VertSec:-  
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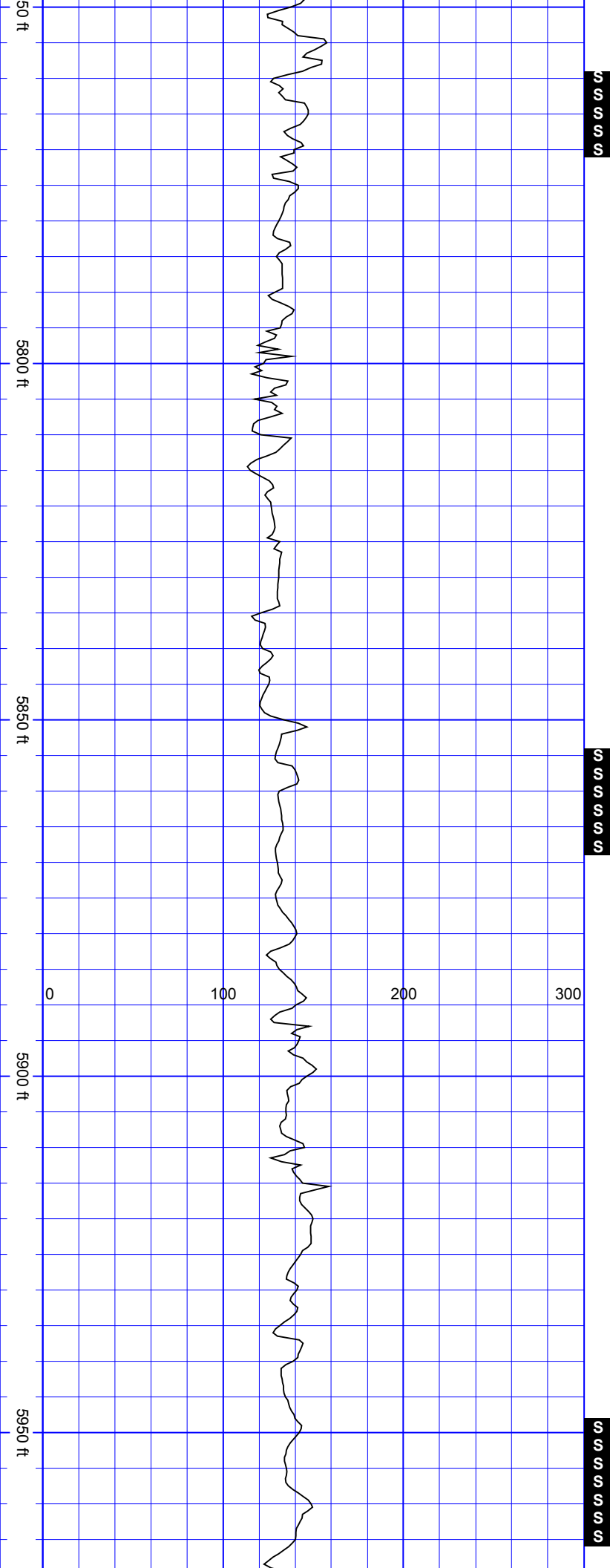
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TVD:5603.3 Inc:9.23  
Azi:149.32 VertSec:-  
750.11

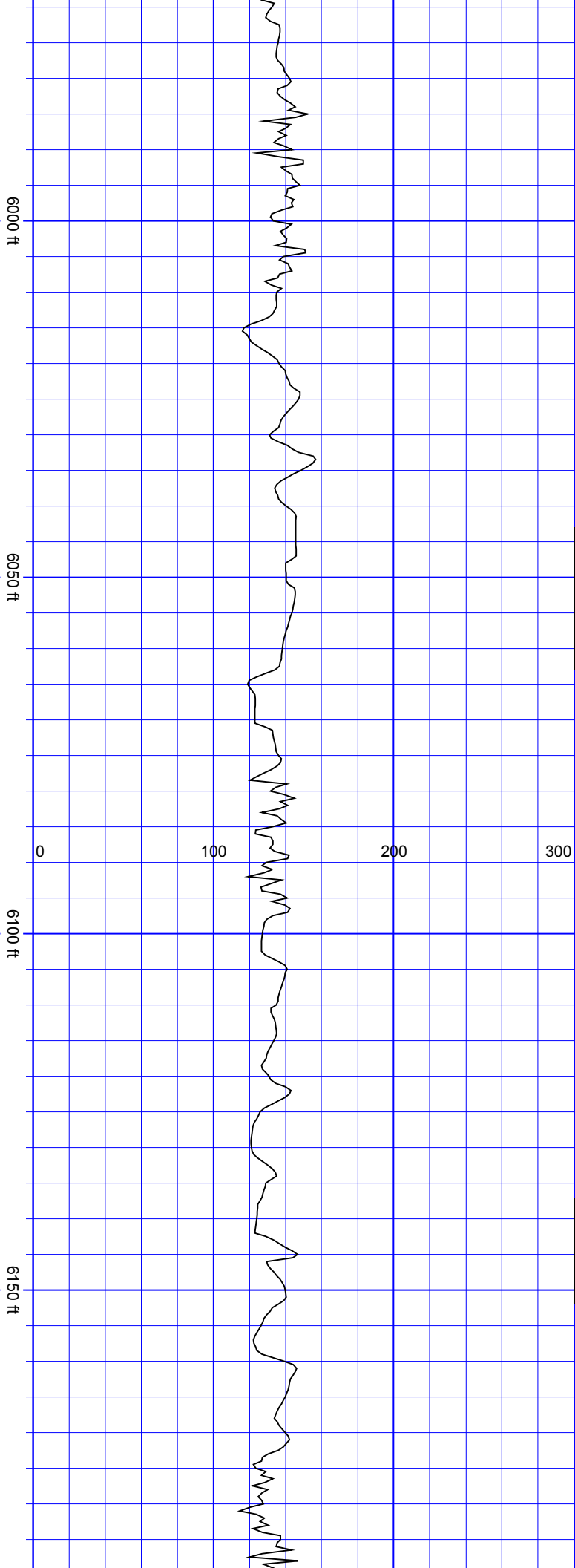




SurveyDepth:5790  
TVD:5697.1 Inc:9.05  
Azi:145.46 VertSec:-  
761.86

SurveyDepth:5884  
TVD:5789.87 Inc:9.49  
Azi:151.96 VertSec:-  
773.86

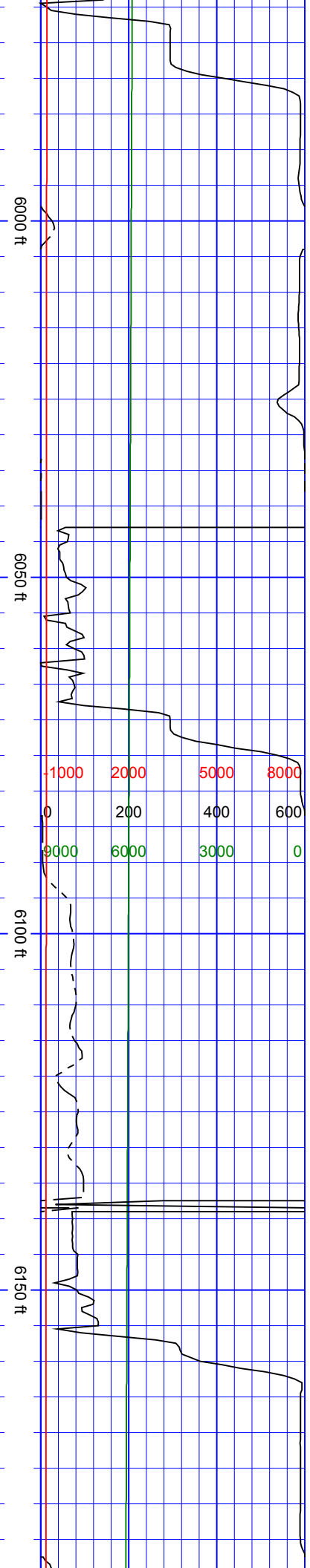


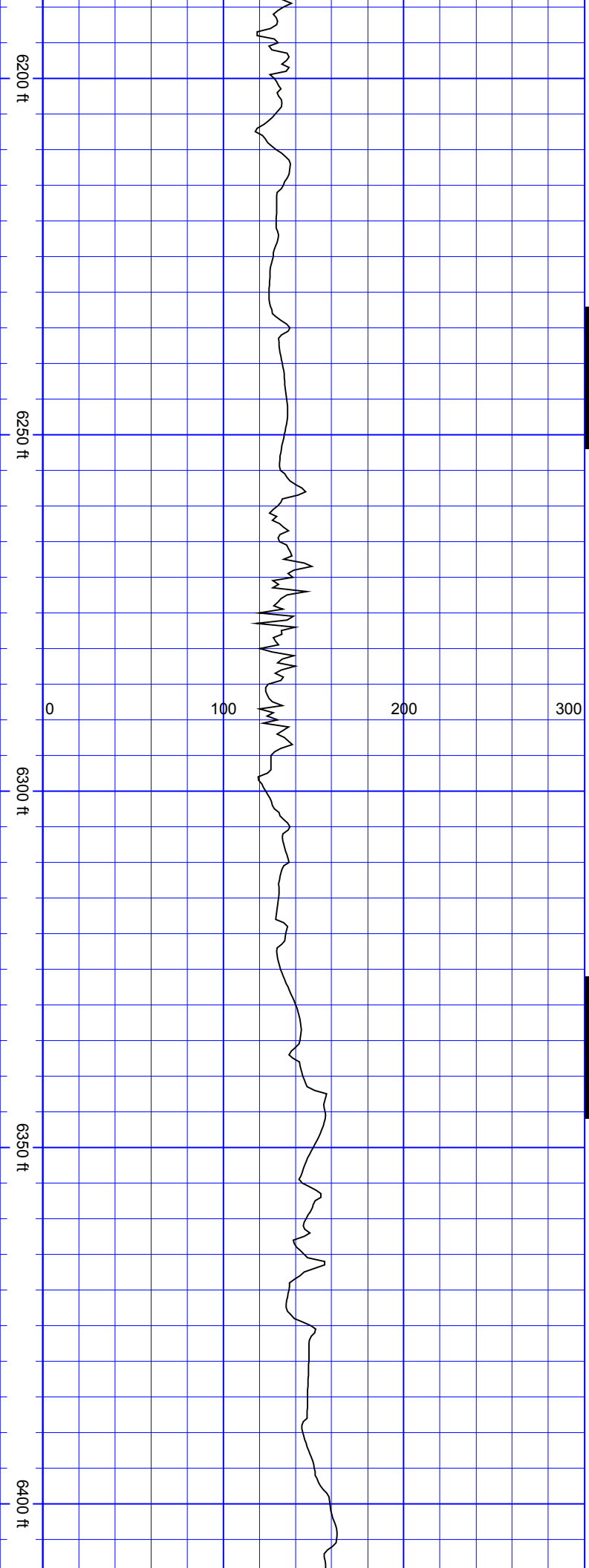


SurveyDepth:5979  
TVD:5883.69 Inc:8.66  
Azi:162.16 VertSec:-  
786.86

SurveyDepth:6073  
TVD:5976.35 Inc:10.68  
Azi:155.04 VertSec:-  
800.78

SurveyDepth:6168  
TVD:6069.68 Inc:10.85  
Azi:154.86 VertSec:-  
815.94



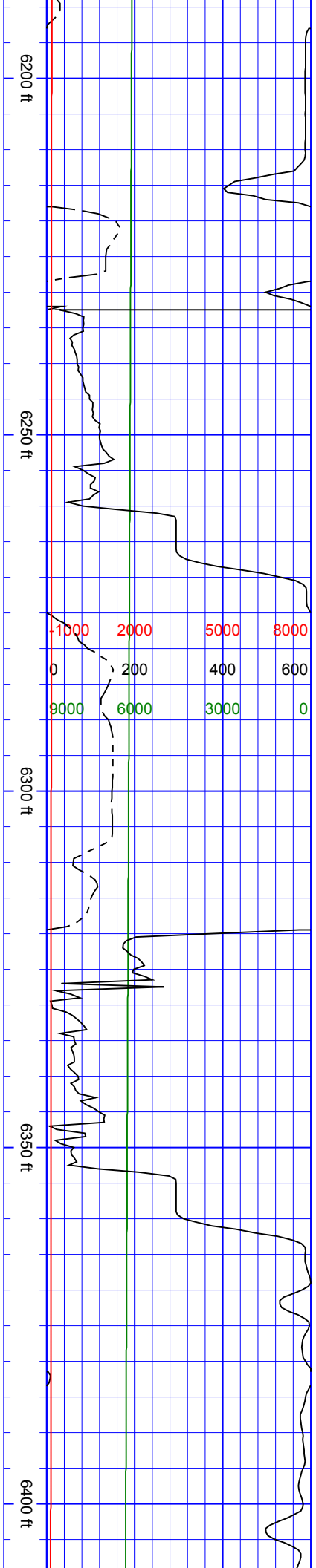


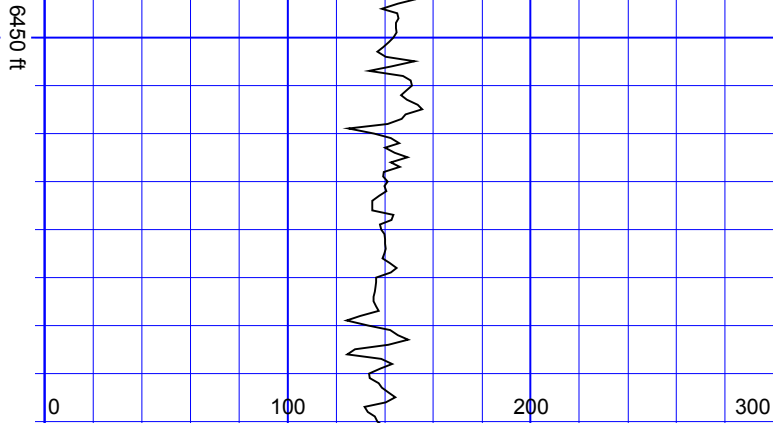
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SurveyDepth:6262  
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Azi:151.43 VertSec:-  
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SurveyDepth:6357  
TVD:6254.64 Inc:12.7  
Azi:145.28 VertSec:-  
847.45



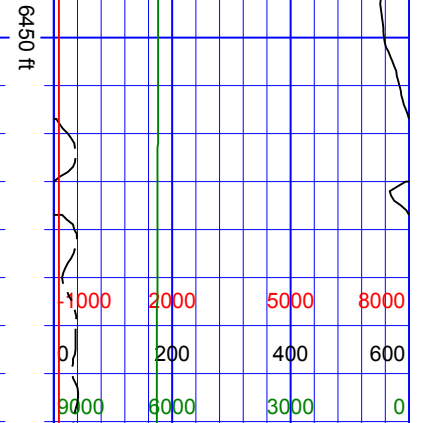


SurveyDepth:6451  
TVD:6346.7 Inc:10.59  
Azi:144.05 VertSec:-  
861.65

SurveyDepth:6498  
TVD:6393.06 Inc:8.31  
Azi:136.58 VertSec:-  
867.05

SurveyDepth:6546  
TVD:6440.75 Inc:5.36  
Azi:85.6 VertSec:-868.88

SurveyDepth:6593  
TVD:6487.5 Inc:7.47  
Azi:29.62 VertSec:-  
865.67



6650 ft

6700 ft

6750 ft

6800 ft

68

SurveyDepth:6640  
TVD:6534.09 Inc:8.35  
Azi:348.4 VertSec:-  
859.61

SurveyDepth:6687  
TVD:6580.44 Inc:10.68  
Azi:338.11 VertSec:-  
852.52

SurveyDepth:6735  
TVD:6627.43 Inc:12.92  
Azi:351.39 VertSec:-  
843.41

SurveyDepth:6782  
TVD:6673.09 Inc:14.72  
Azi:7.47 VertSec:-832.36

SurveyDepth:6829  
TVD:6718.15 Inc:18.24  
Azi:12.3 VertSec:-819.07

6650 ft

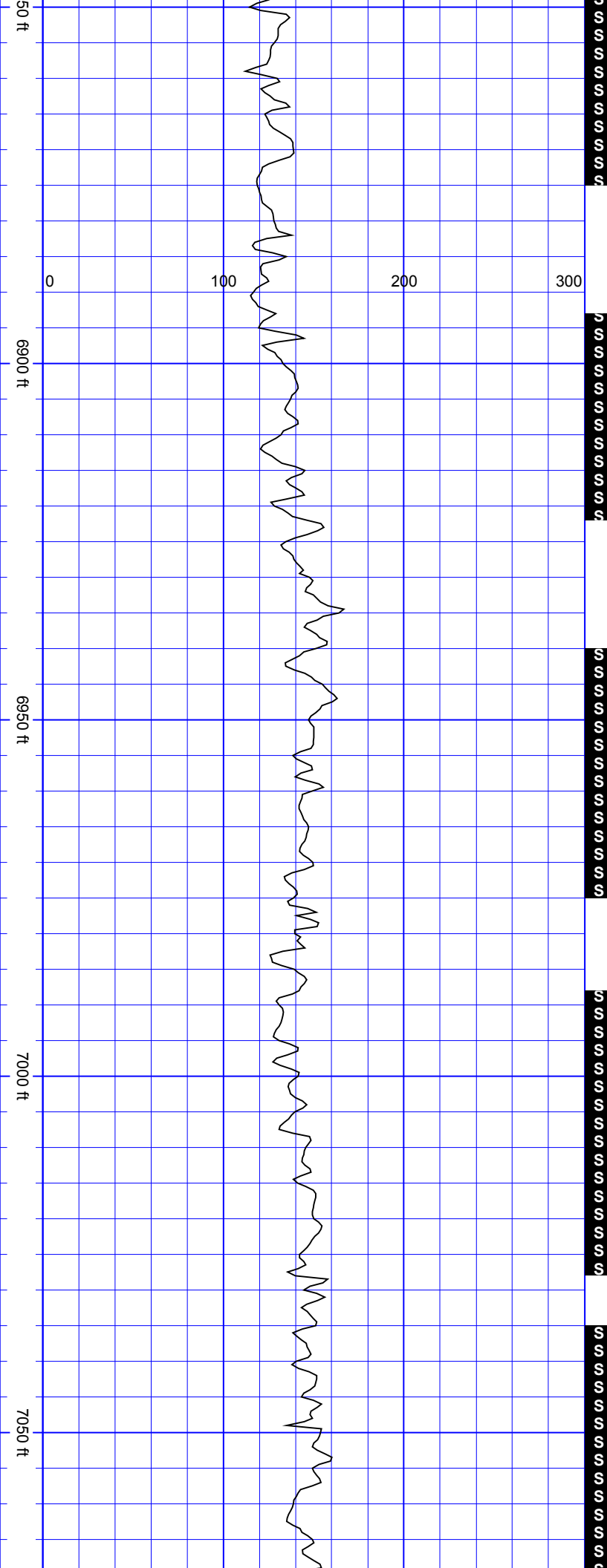
6700 ft

6750 ft

6800 ft

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



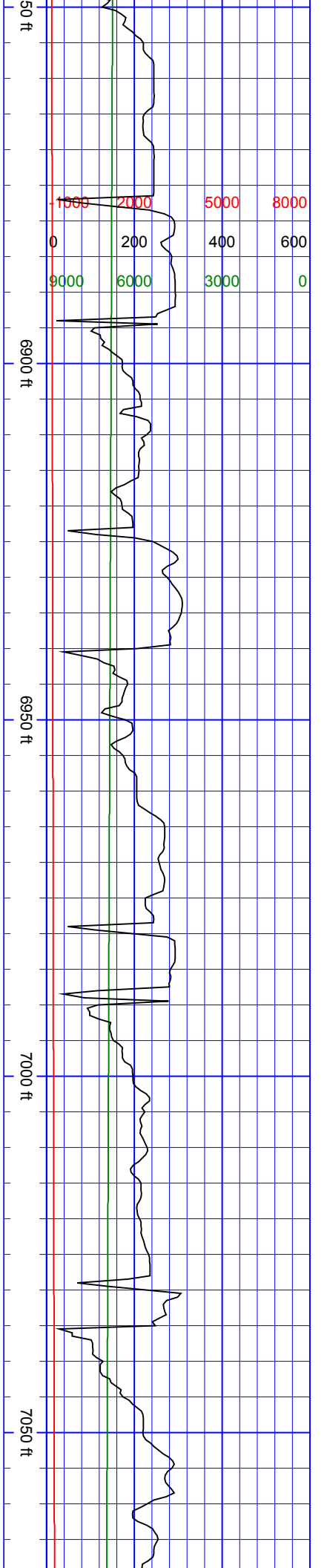
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TVD:6762.52 Inc:20.26  
Azi:17.58 VertSec:-  
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SurveyDepth:6924  
TVD:6807.23 Inc:22.46  
Azi:14.32 VertSec:-  
786.54

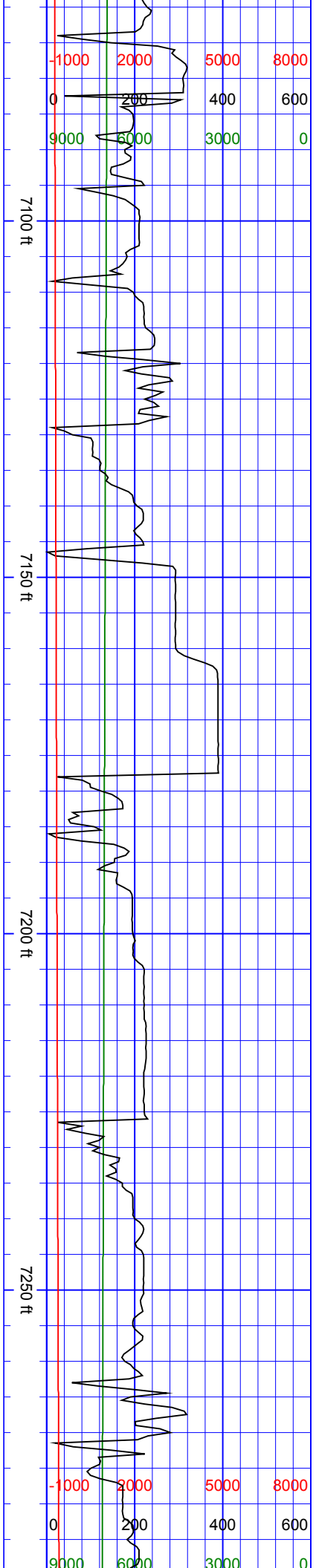
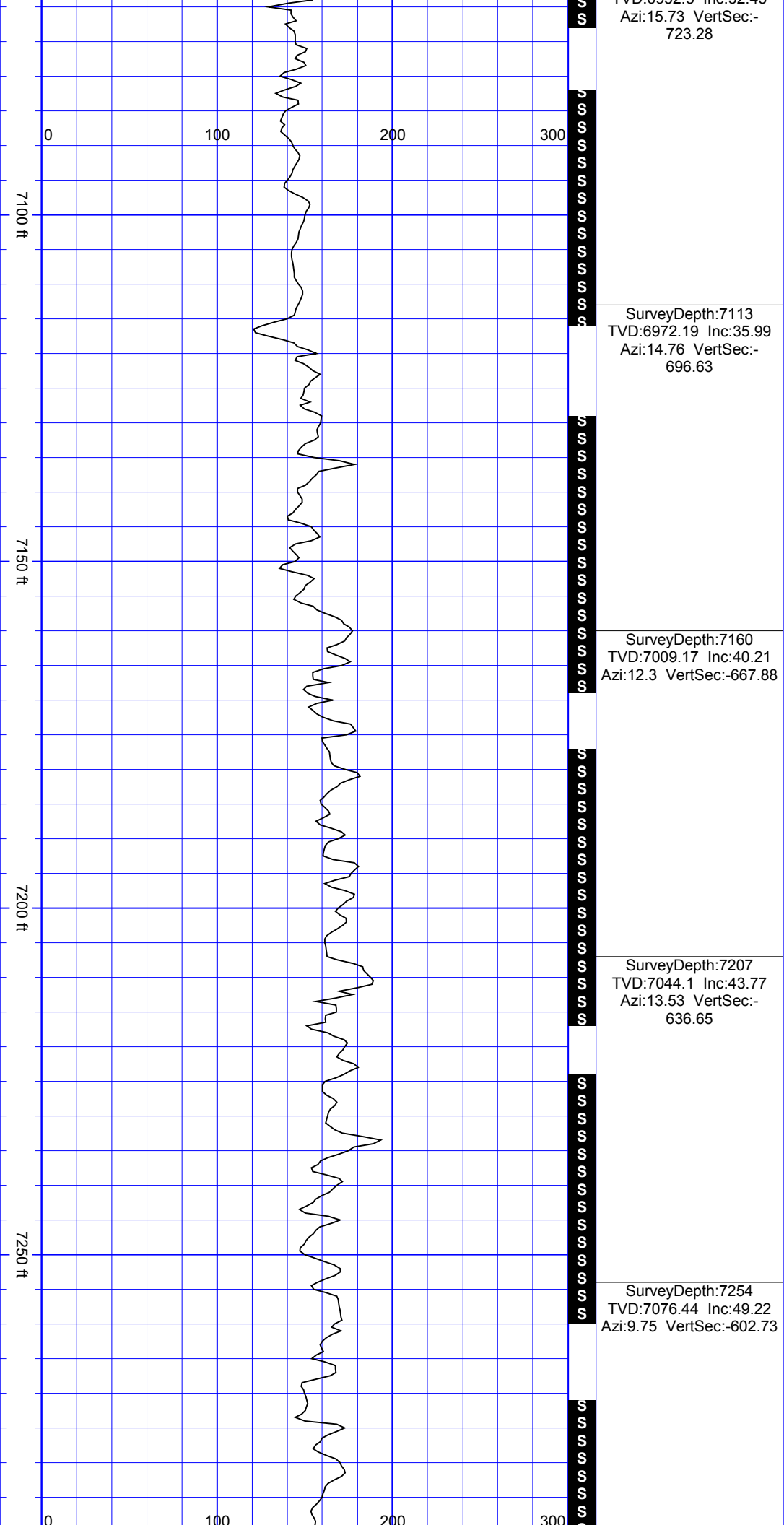
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Azi:18.02 VertSec:-  
767.92

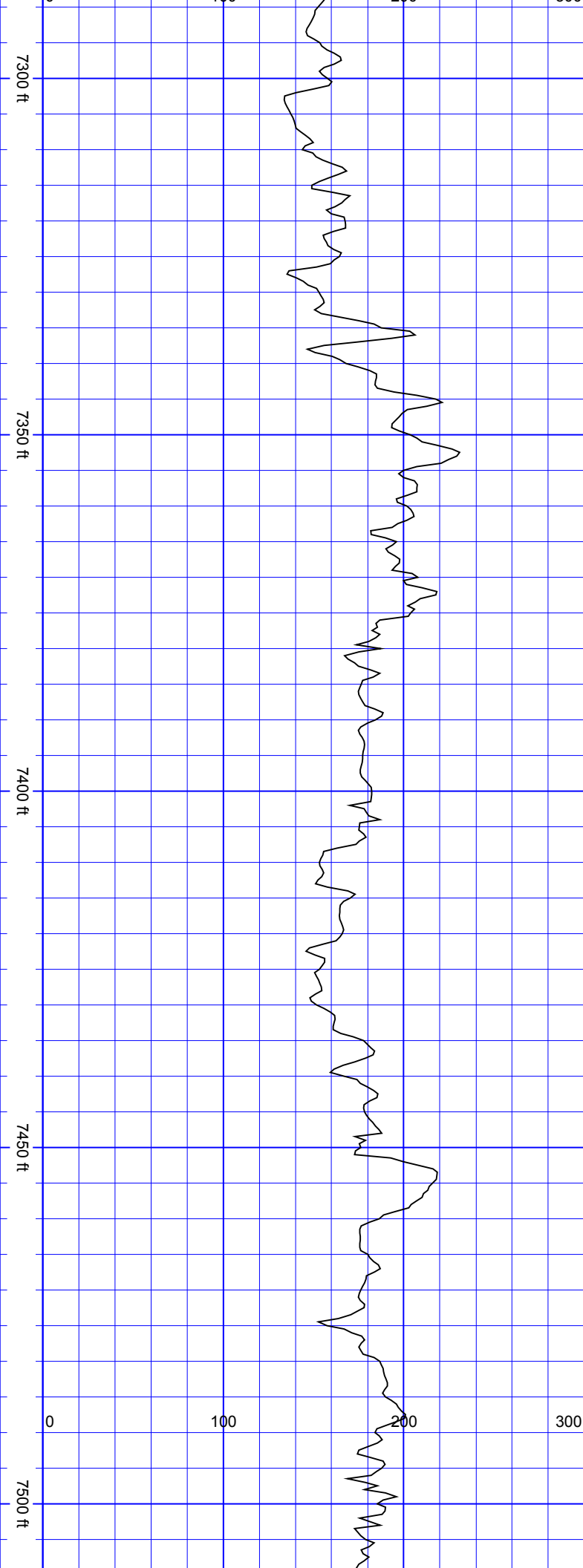
SurveyDepth:7018  
TVD:6892.11 Inc:29.05  
Azi:16.35 VertSec:-  
746.96

SurveyDepth:7065  
TVD:6932.5 Inc:32.43









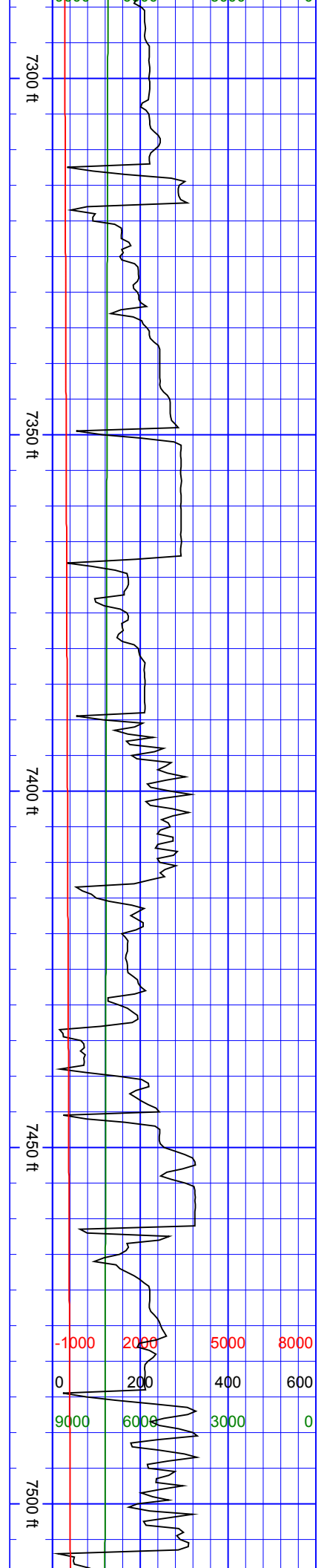
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Azi:7.65 VertSec:-565.05

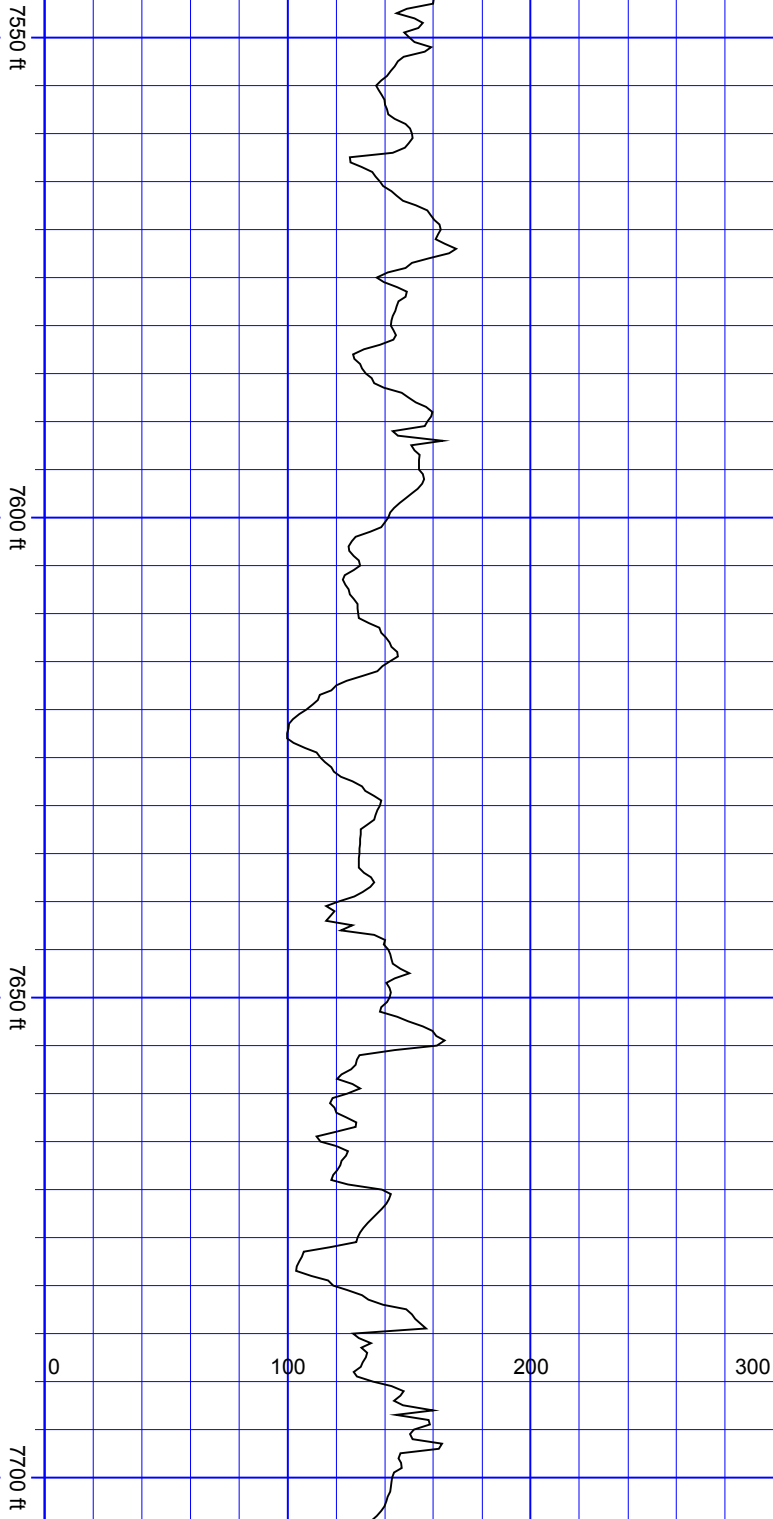
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TVD:7131.67 Inc:59.59  
Azi:7.12 VertSec:-525.64

SurveyDepth:7396  
TVD:7154.35 Inc:62.71  
Azi:7.38 VertSec:-484.49

SurveyDepth:7443  
TVD:7175.3 Inc:64.34  
Azi:6.94 VertSec:-442.42

SurveyDepth:7491  
TVD:7194.87 Inc:67.54  
Azi:7.38 VertSec:-398.6





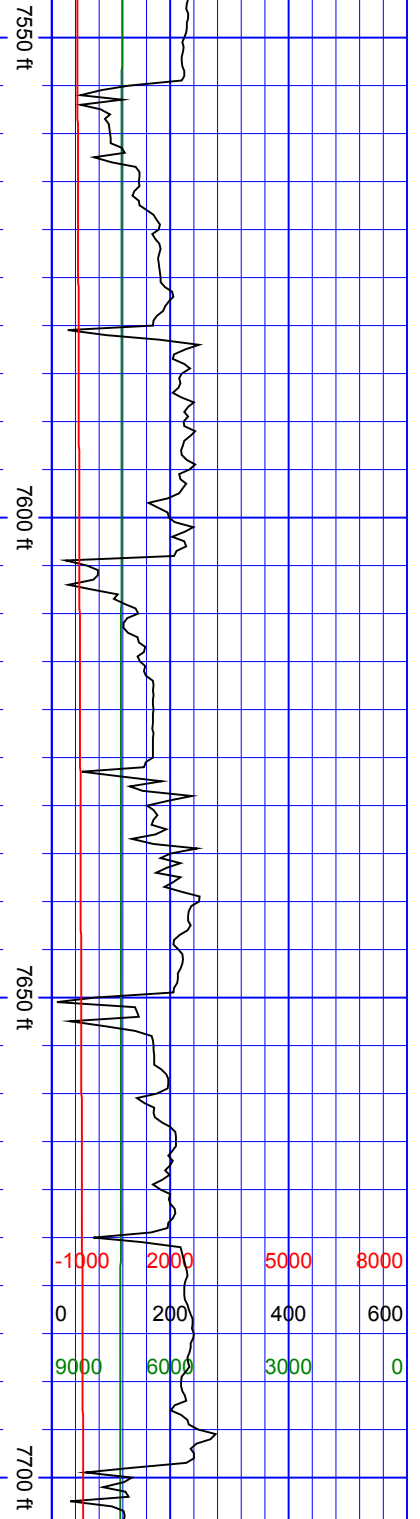
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TVD:7211.52 Inc:70.97  
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SurveyDepth:7585  
TVD:7225.94 Inc:73.3  
Azi:1.93 VertSec:-309.99

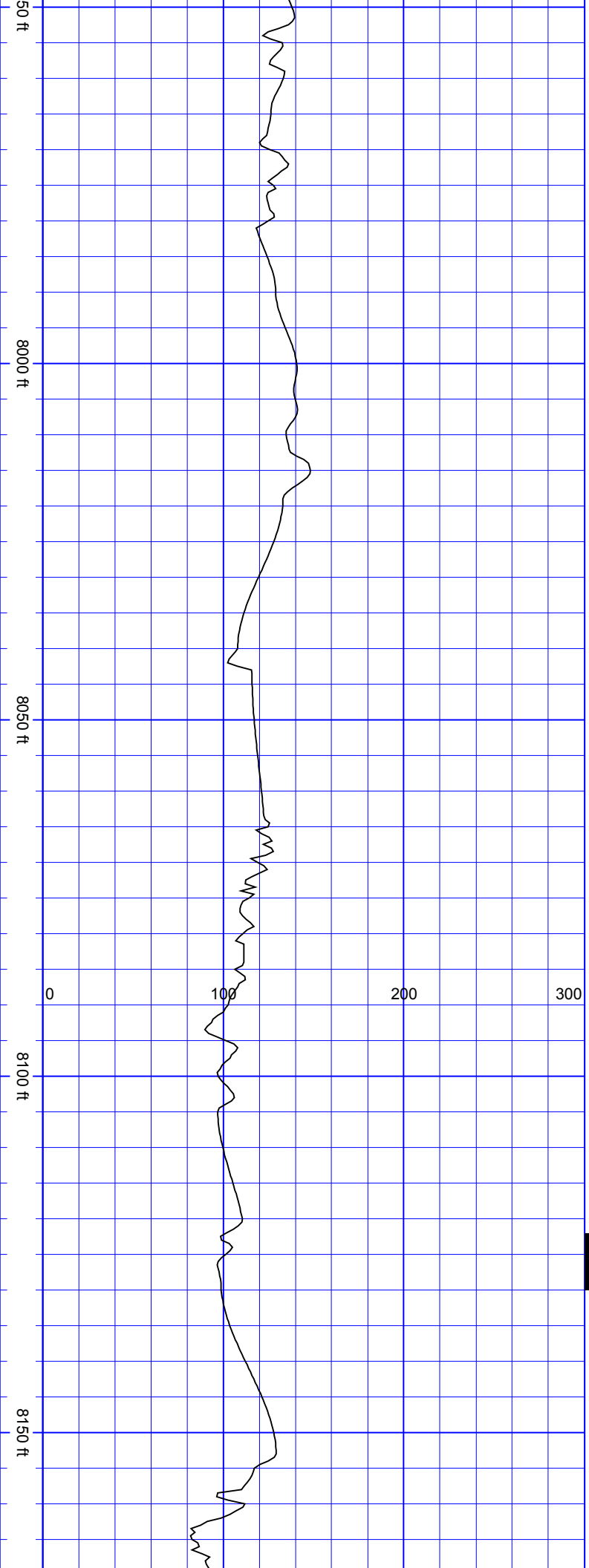
SurveyDepth:7632  
TVD:7238.53 Inc:75.63  
Azi:359.12 VertSec:-264.94

SurveyDepth:7680  
TVD:7249.11 Inc:78.88  
Azi:358.33 VertSec:-218.53

SurveyDepth:7727





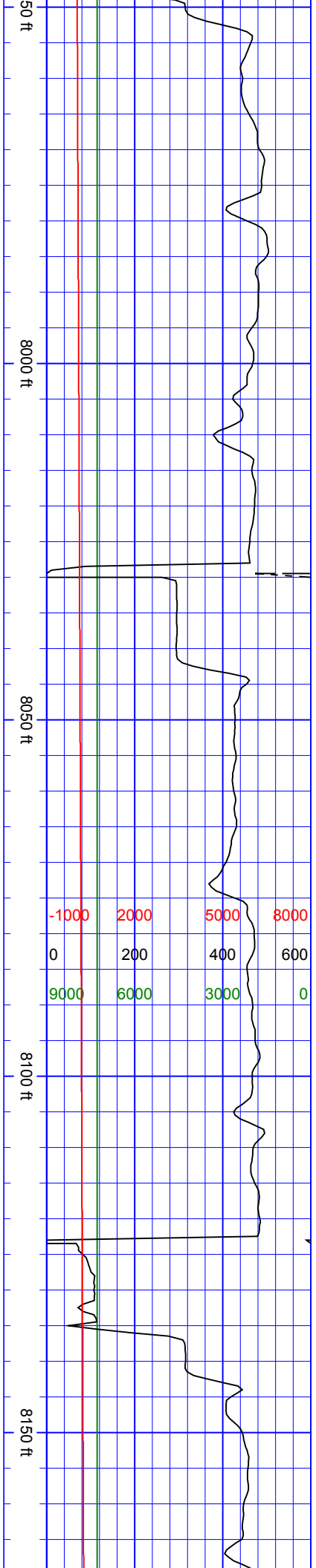


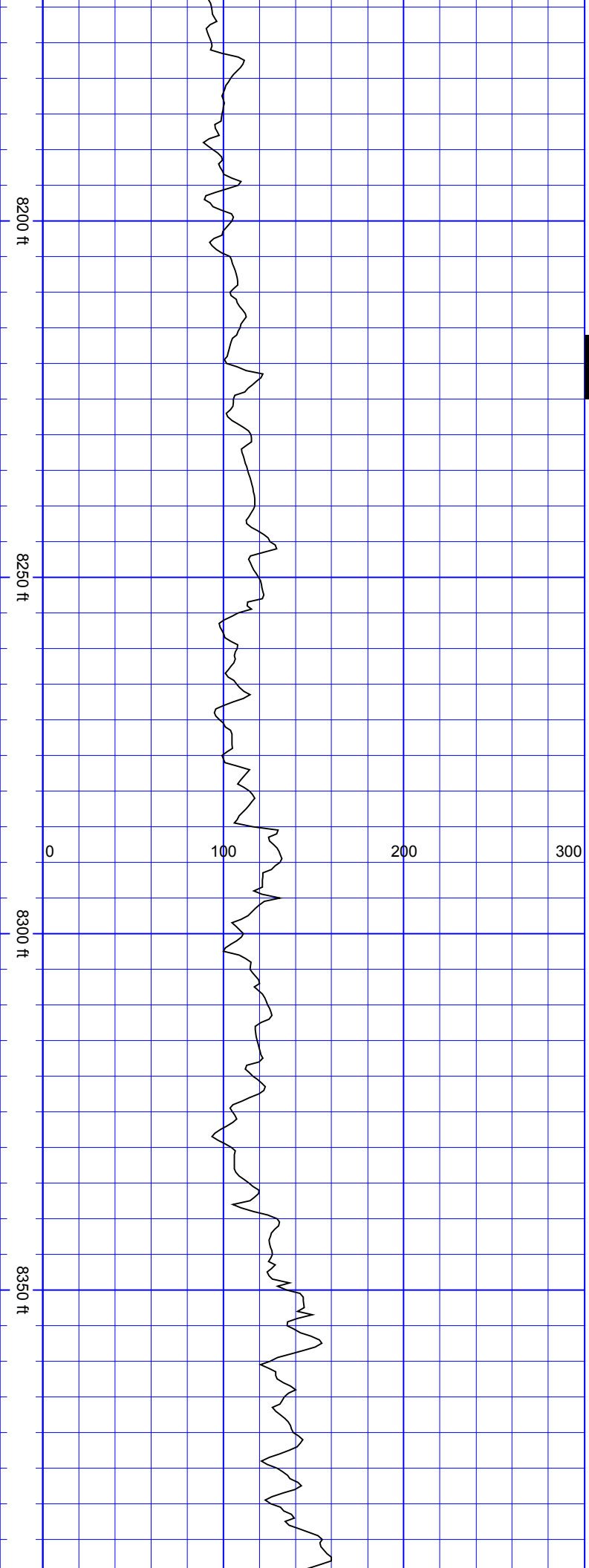
SurveyDepth:7964  
TVD:7269.79 Inc:89.6  
Azi:359.56  
VertSec:62.51

SurveyDepth:8058  
TVD:7270.59 Inc:89.43  
Azi:0.53 VertSec:155.95

SurveyDepth:8152  
TVD:7271.16 Inc:89.87  
Azi:0.44 VertSec:249.48

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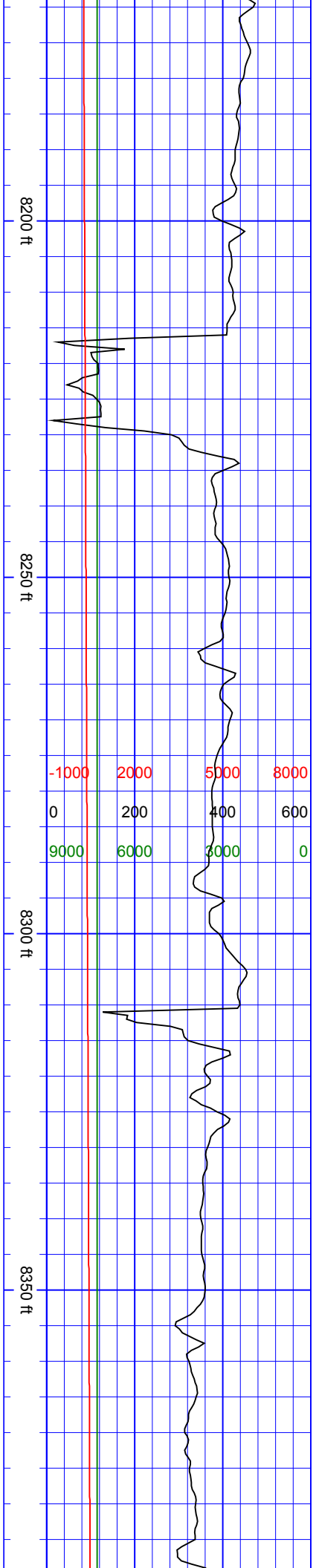


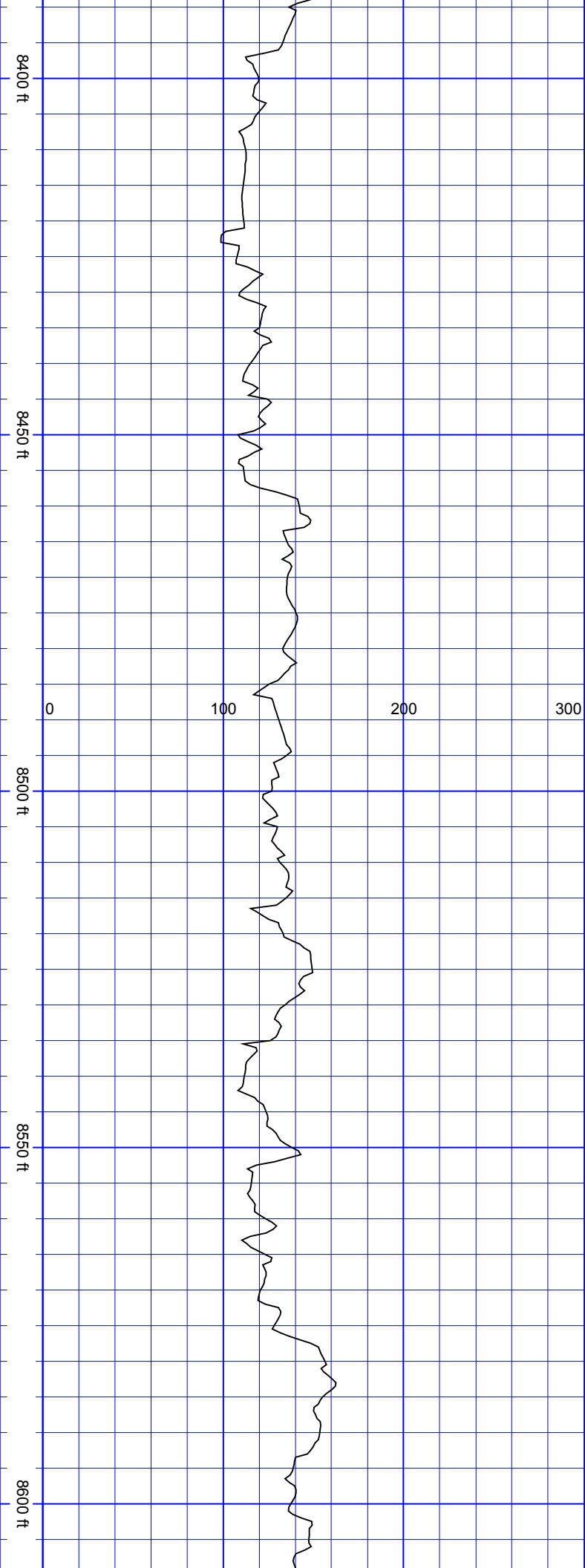


SSS

SurveyDepth:8247  
TVD:7271.05 Inc:90.26  
Azi:1.23 VertSec:344.05

SurveyDepth:8341  
TVD:7270.77 Inc:90.09  
Azi:359.65  
VertSec:437.57

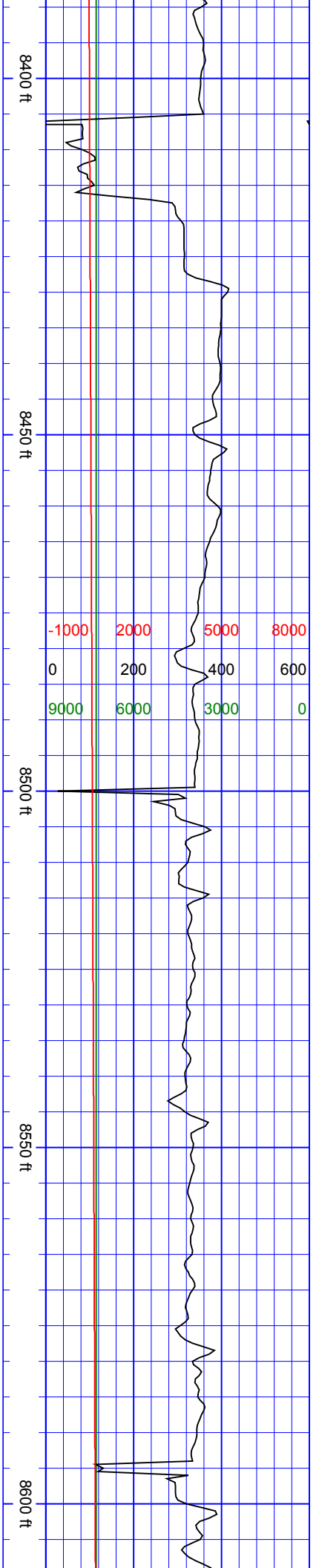


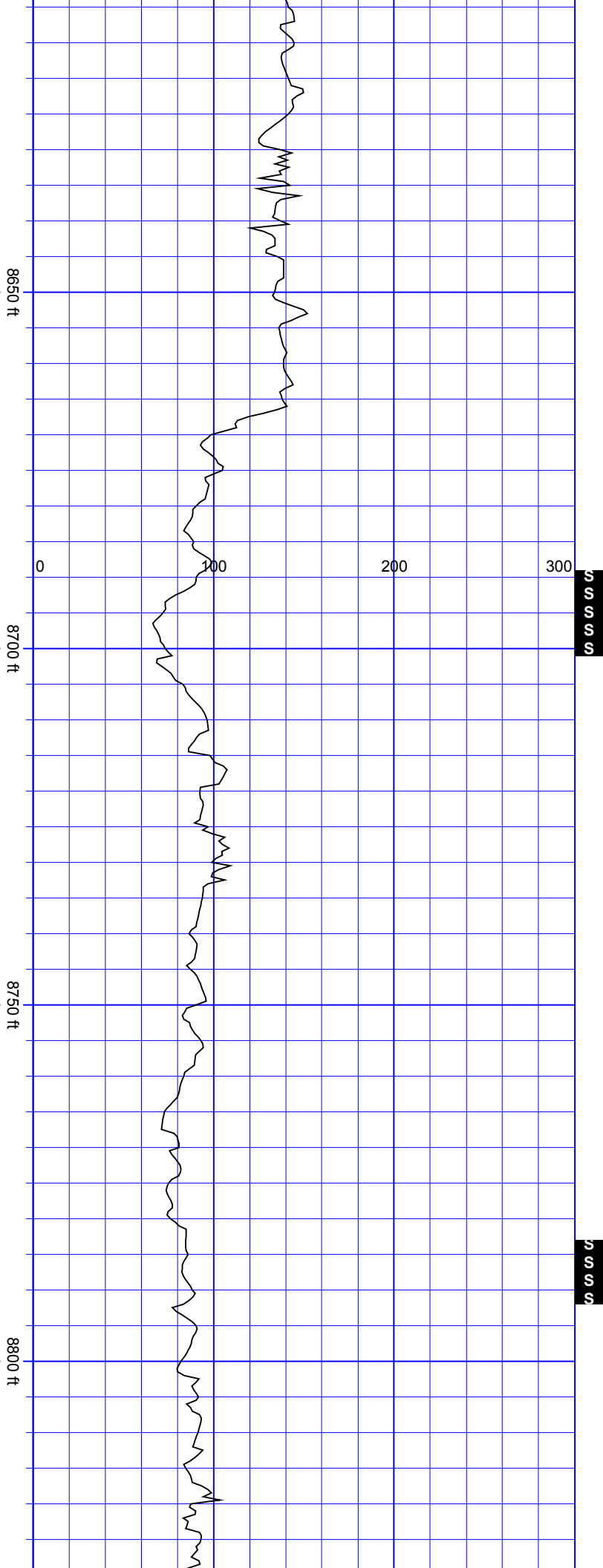


SSS

SurveyDepth:8435  
TVD:7269.58 Inc:91.36  
Azi:358.5  
VertSec:530.82

SurveyDepth:8530  
TVD:7267.4 Inc:91.27  
Azi:359.38  
VertSec:625.03

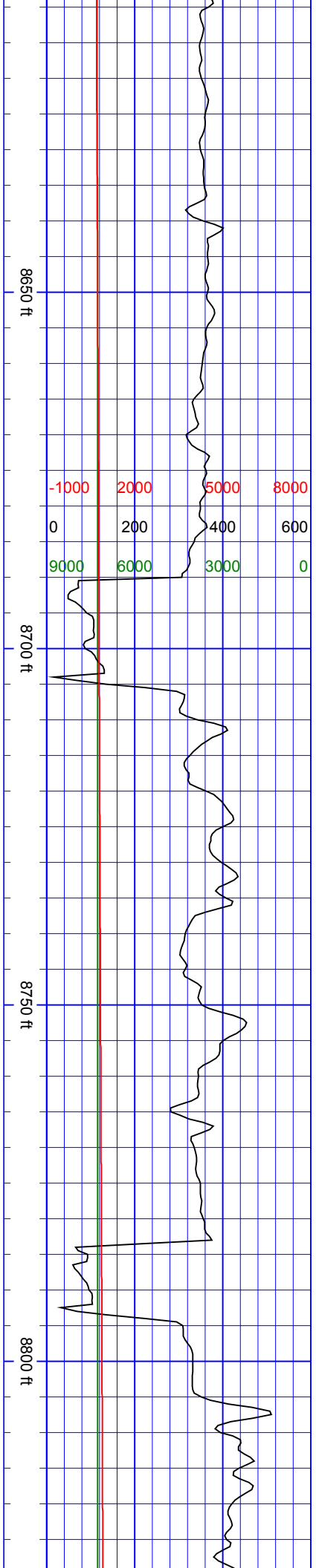




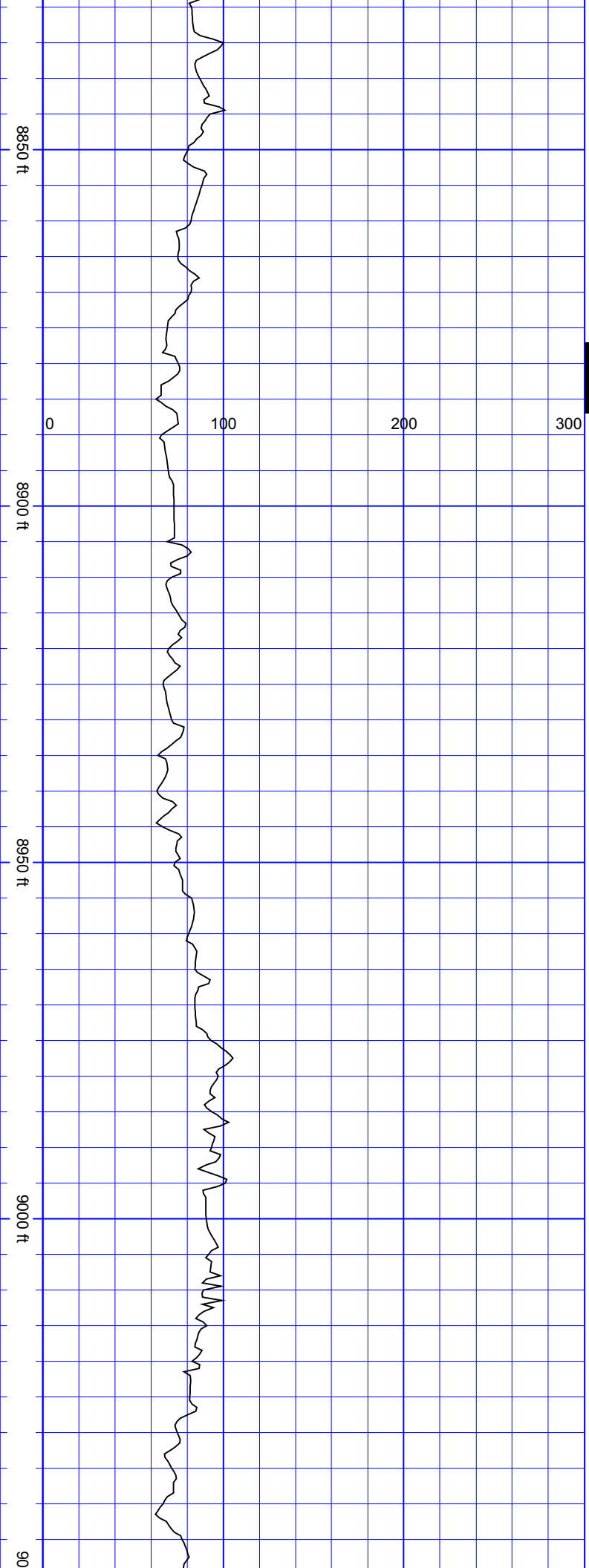
SurveyDepth:8625  
TVD:7265.07 Inc:91.54  
Azi:357.36  
VertSec:719.1

SurveyDepth:8719  
TVD:7262.87 Inc:91.14  
Azi:359.65  
VertSec:812.21

SurveyDepth:8813  
TVD:7261.86 Inc:90.09  
Azi:359.74  
VertSec:905.59



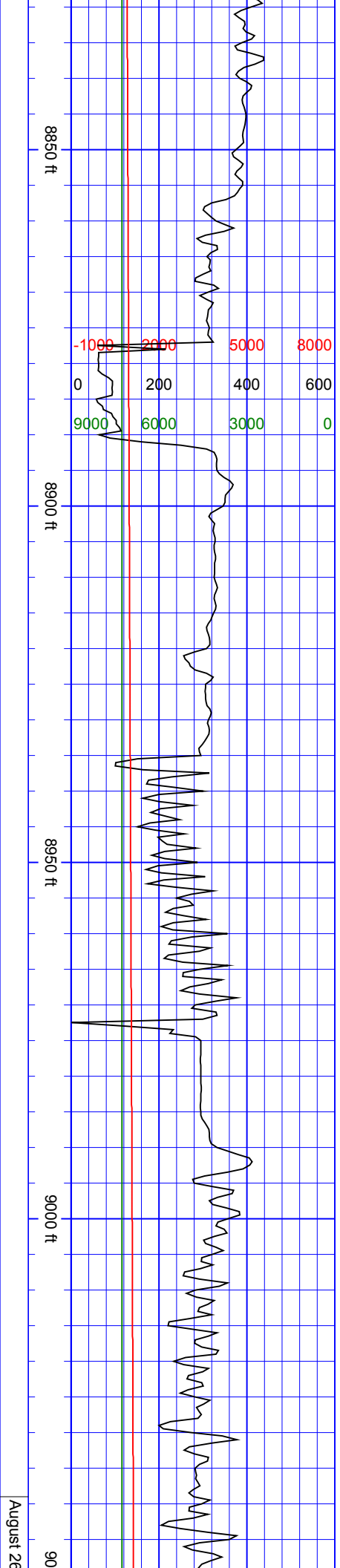




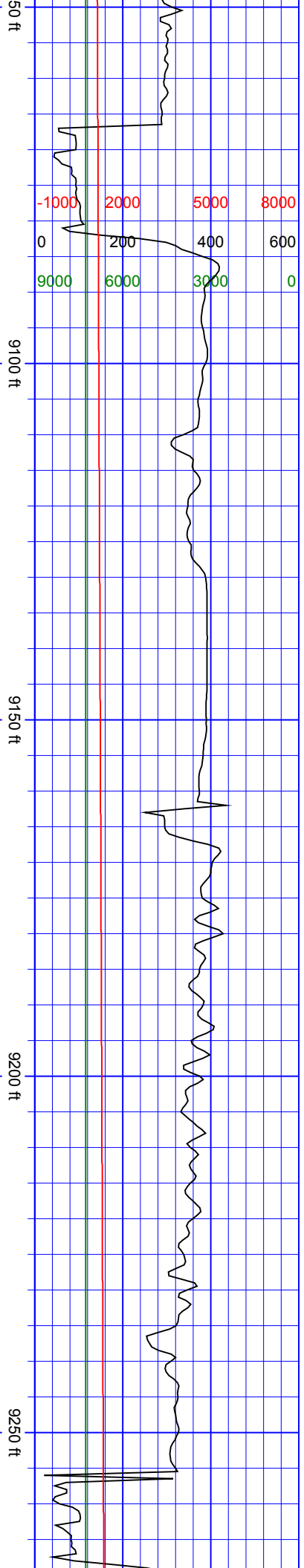
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SurveyDepth:8908  
TVD:7260.62 Inc:91.41  
Azi:0.61  
VertSec:1000.05

SurveyDepth:9002  
TVD:7258.16 Inc:91.58  
Azi:359.38  
VertSec:1093.46

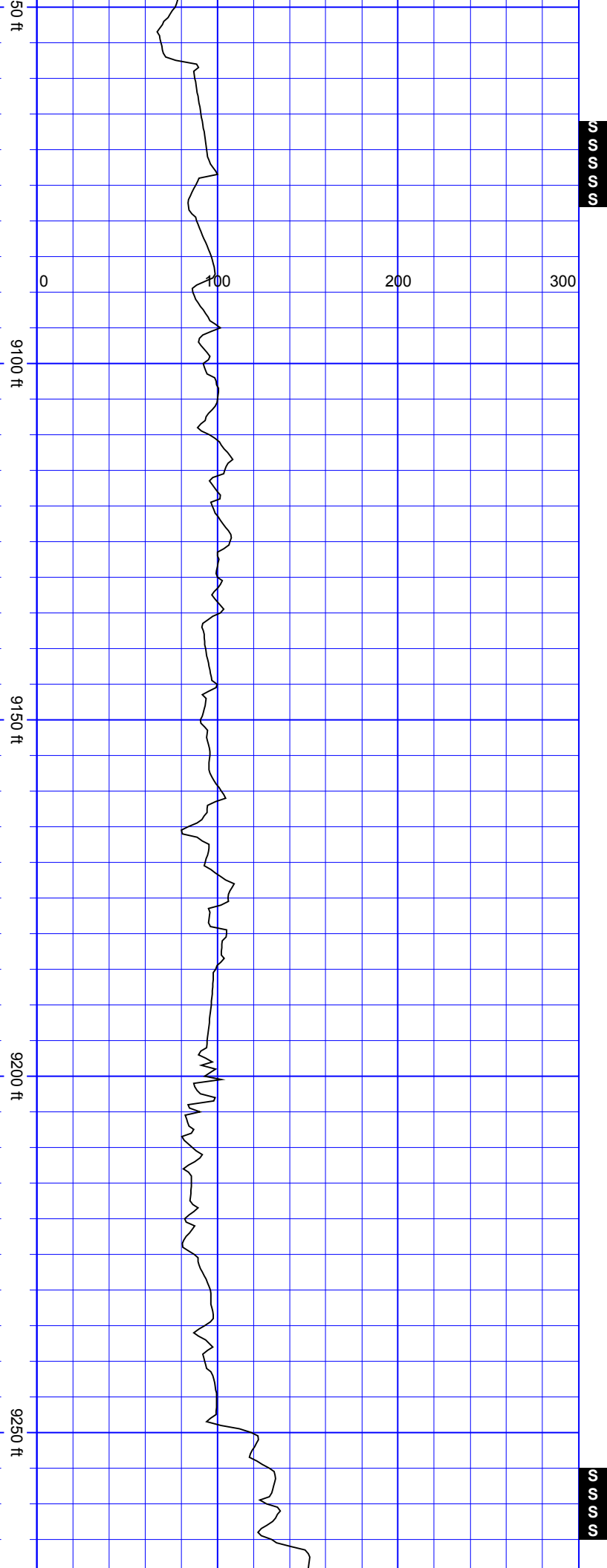


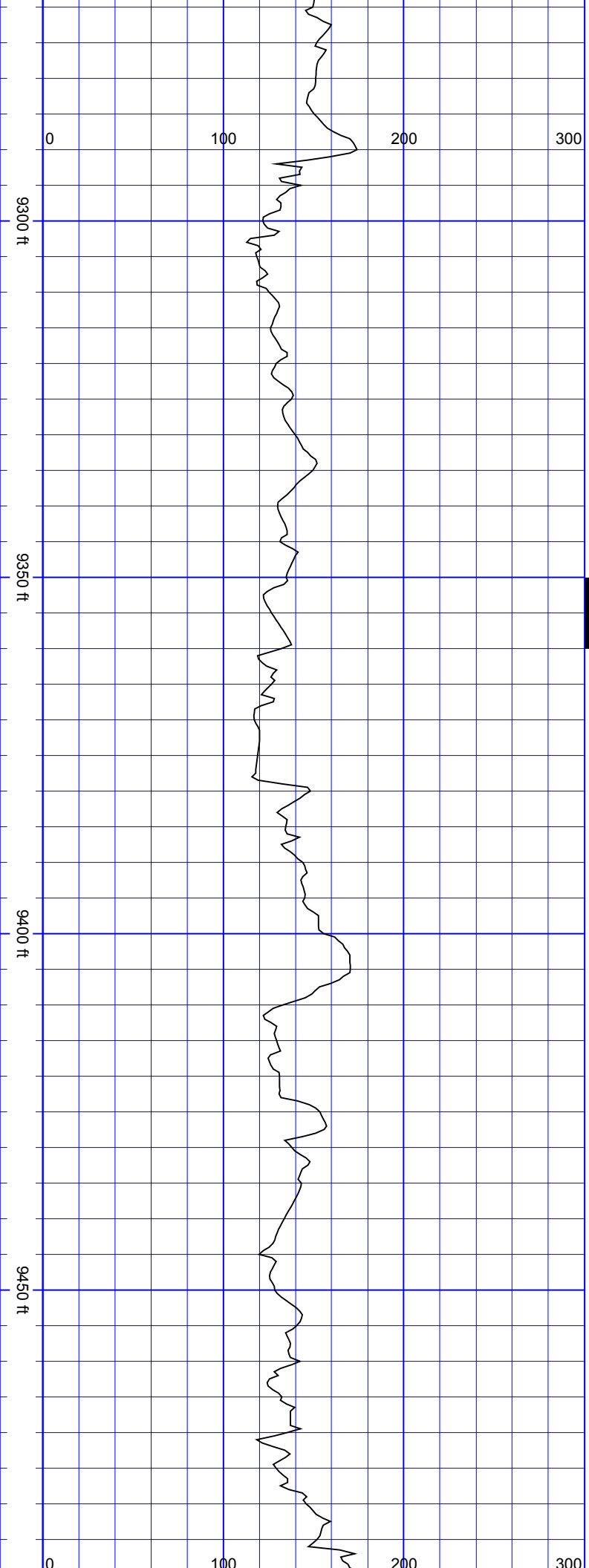
August 20



SurveyDepth:9097  
TVD:7255.32 Inc:91.85  
Azi:2.11  
VertSec:1187.97

SurveyDepth:9191  
TVD:7252.22 Inc:91.93  
Azi:0.44  
VertSec:1281.56



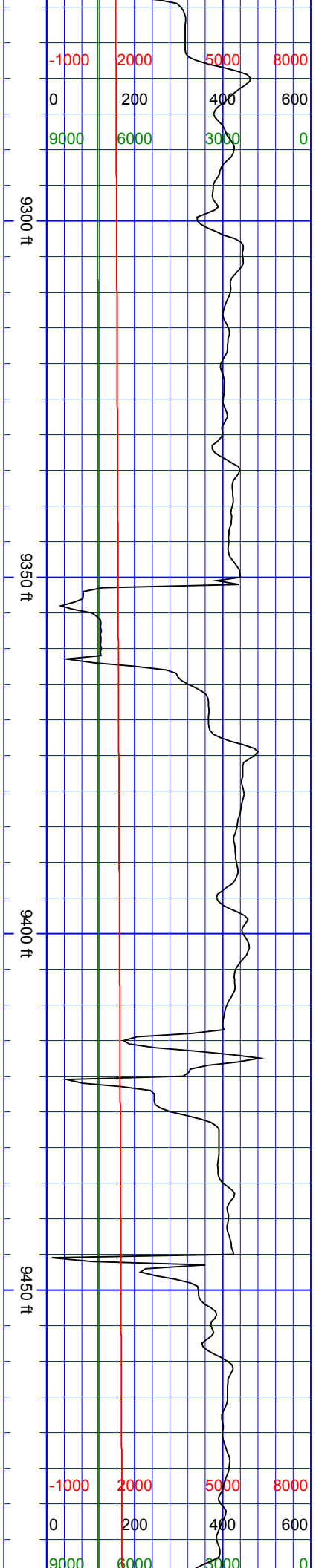


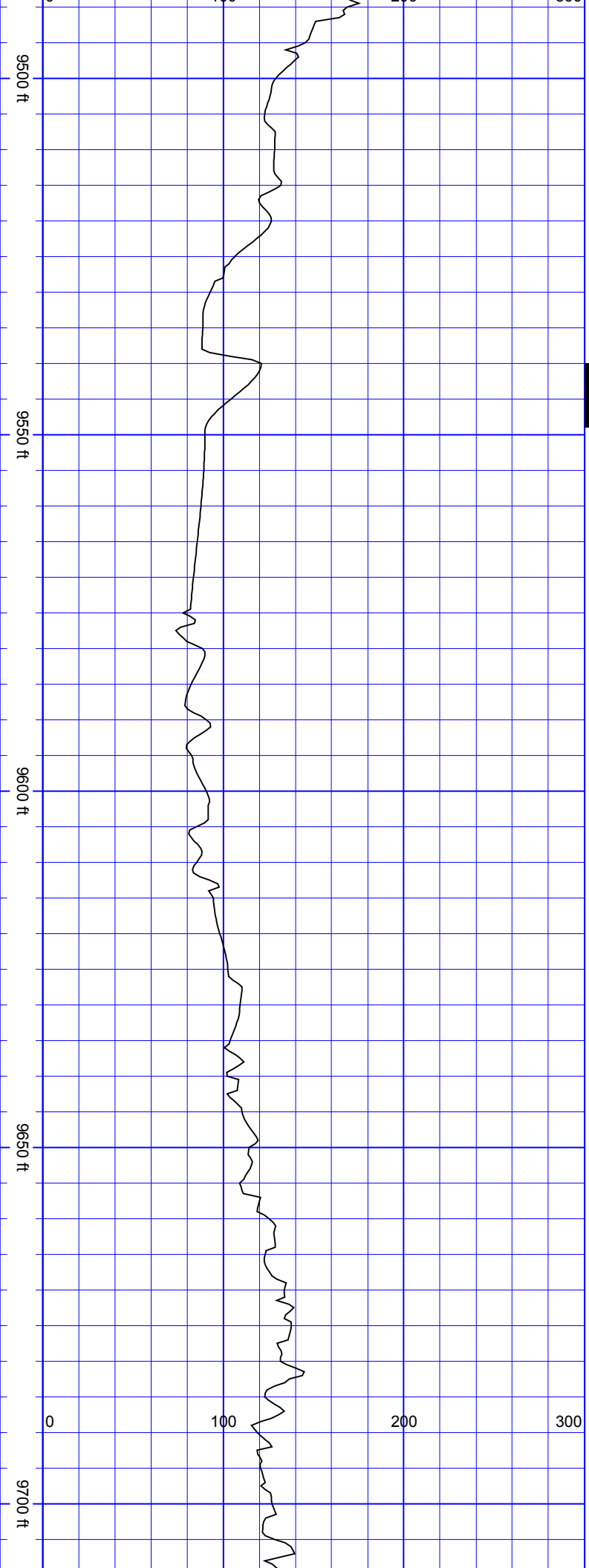
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SurveyDepth:9286  
TVD:7249.2 Inc:91.71  
Azi:2.11  
VertSec:1376.16

SurveyDepth:9381  
TVD:7246.84 Inc:91.14  
Azi:3.87  
VertSec:1470.97

SurveyDepth:9476  
TVD:7244.77 Inc:91.36  
Azi:1.49  
VertSec:1565.76

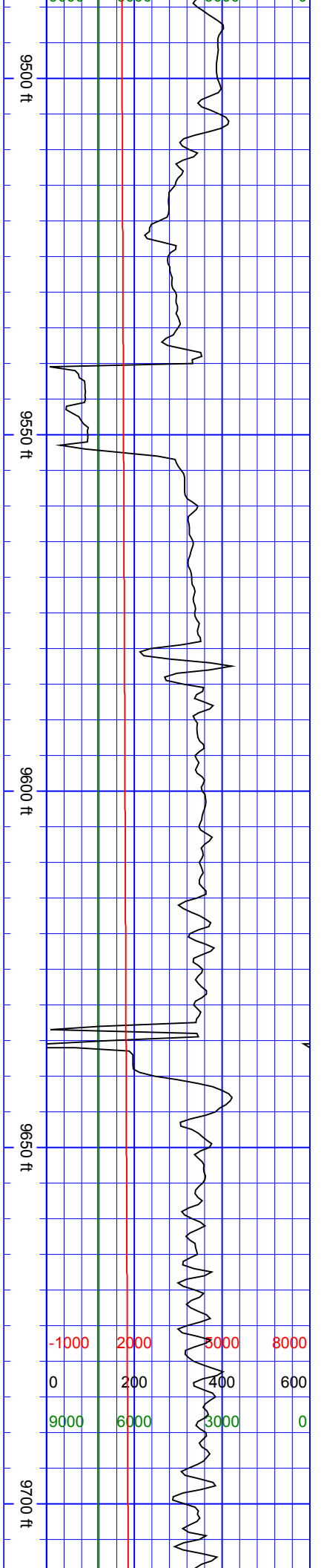


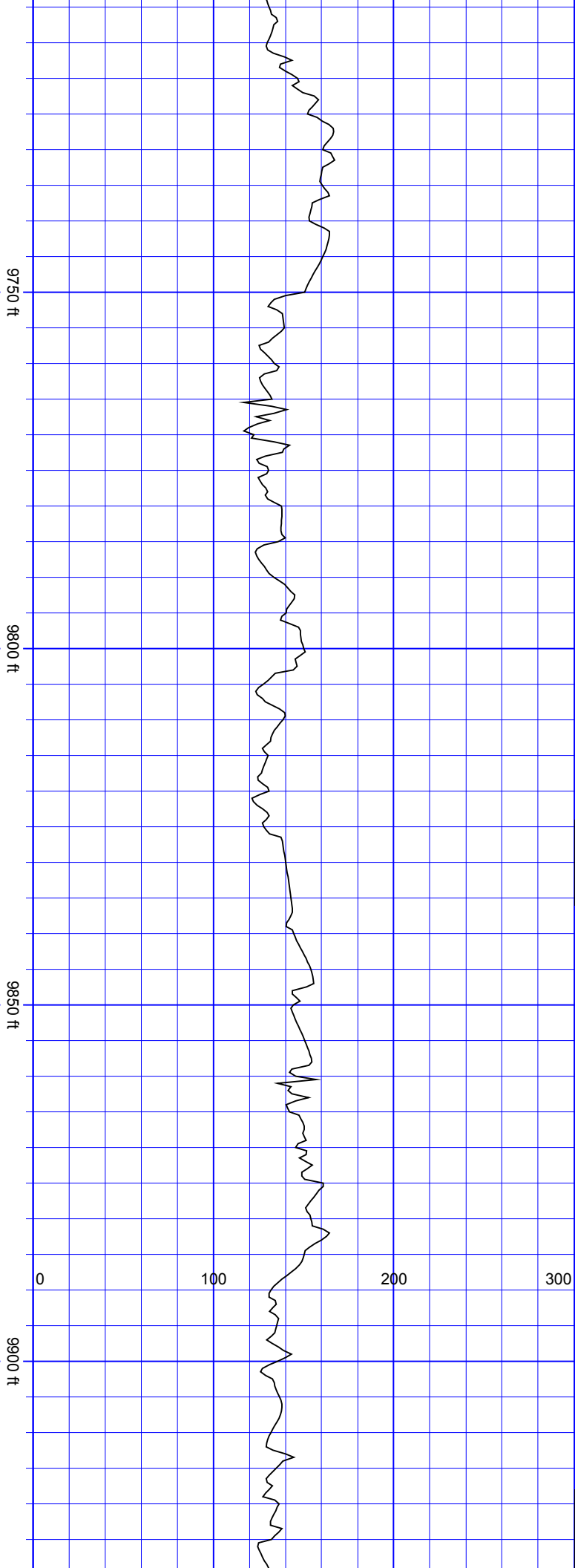


SSS

SurveyDepth:9571  
TVD:7244.4 Inc:89.08  
Azi:1.23  
VertSec:1660.41

SurveyDepth:9665  
TVD:7245.84 Inc:89.17  
Azi:2.11 VertSec:1754.1



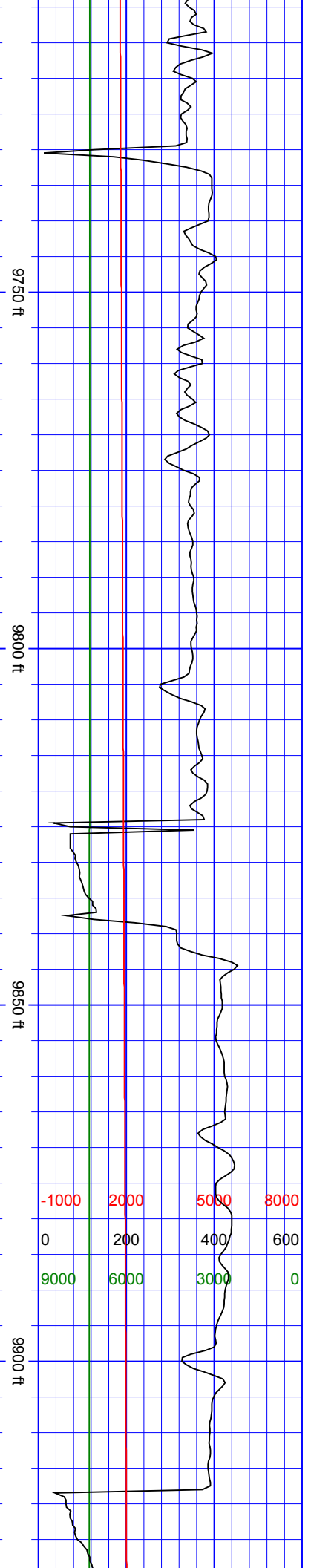


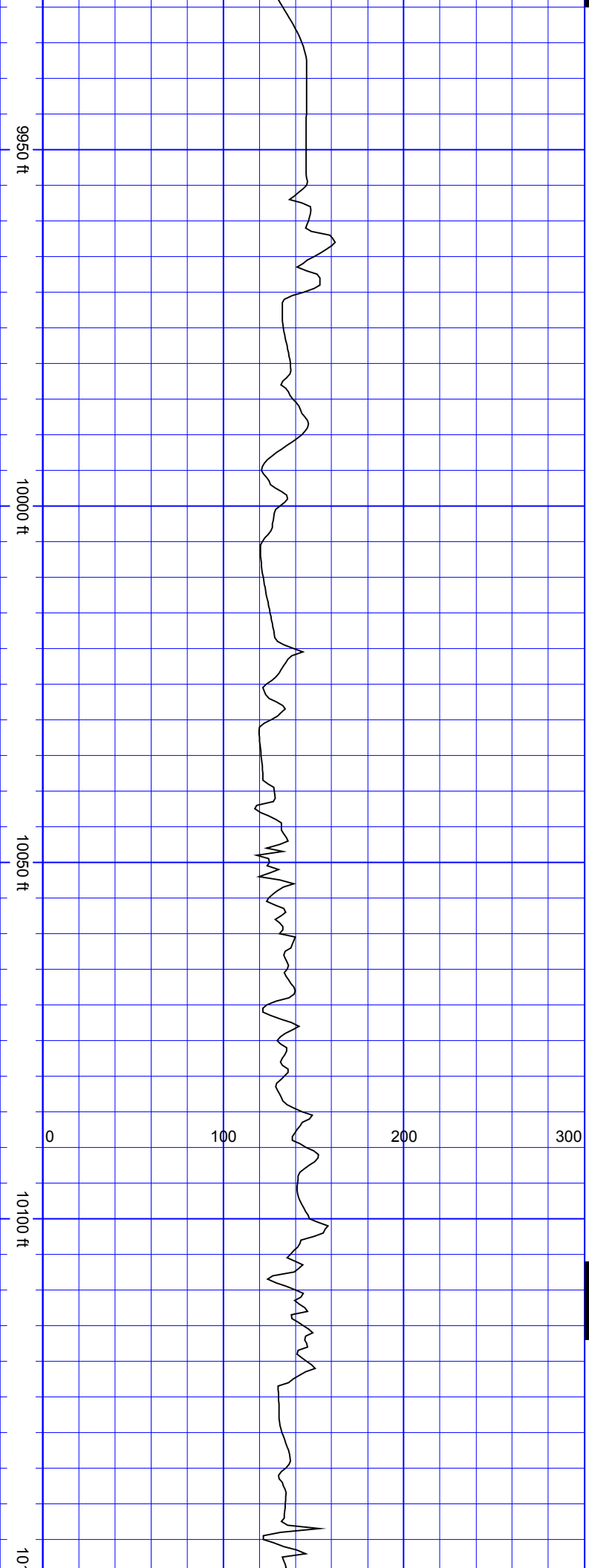
SurveyDepth:9760  
TVD:7247.62 Inc:88.68  
Azi:359.38  
VertSec:1848.63

SurveyDepth:9854  
TVD:7249.1 Inc:89.52  
Azi:0.26  
VertSec:1942.03

SSSS

SSSS

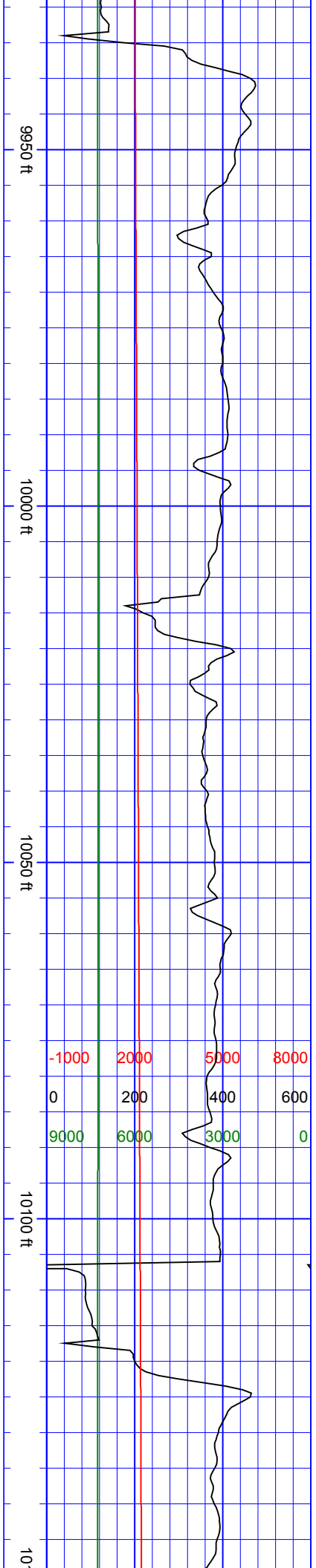


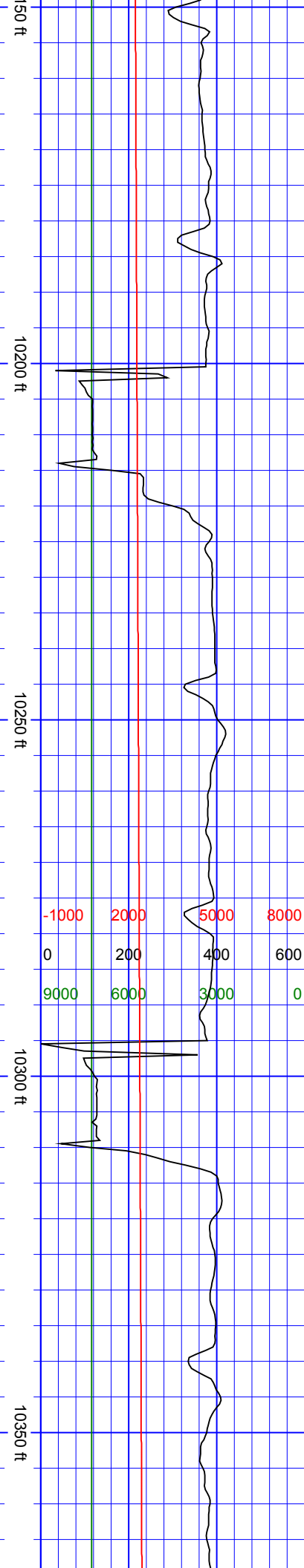


SurveyDepth:9948  
TVD:7248.74 Inc:90.92  
Azi:2.28  
VertSec:2035.67

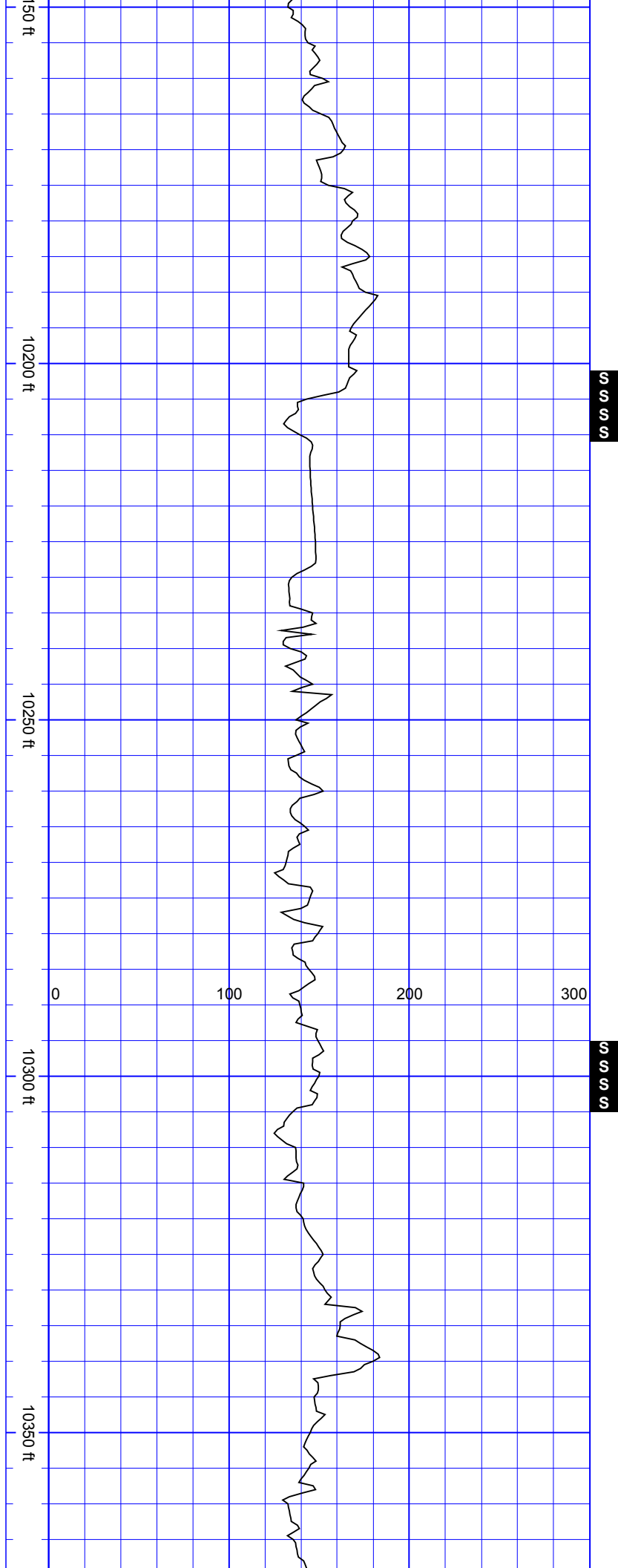
SurveyDepth:10042  
TVD:7248.2 Inc:89.74  
Azi:0.7 VertSec:2129.34

SurveyDepth:10137  
TVD:7249.03 Inc:89.25  
Azi:2.11 VertSec:2224





SurveyDepth:10231  
TVD:7250.62 Inc:88.81  
Azi:2.64  
VertSec:2317.77



10400 ft

10450 ft

10500 ft

10550 ft

0 100 200 300

SurveyDepth:10421  
TVD:7250.88 Inc:90.26  
Azi:4.04  
VertSec:2507.61

SurveyDepth:10515  
TVD:7250.38 Inc:90.35  
Azi:3.25  
VertSec:2601.51

10400 ft

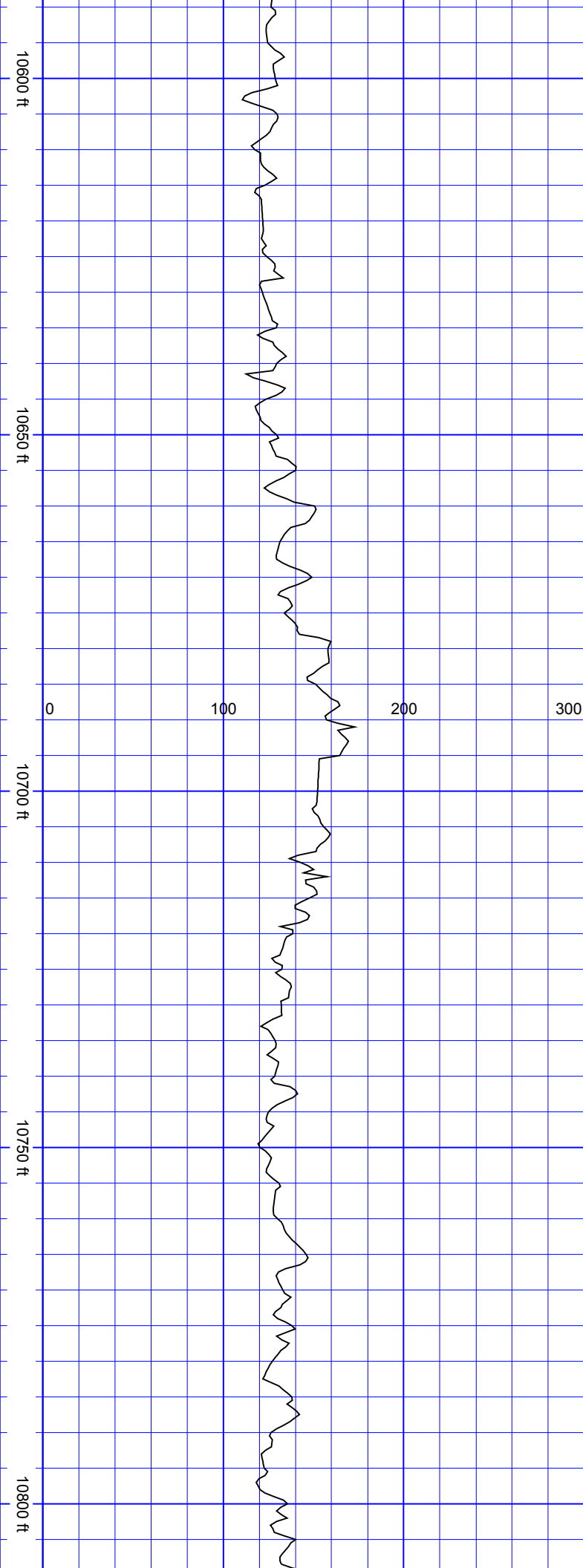
10450 ft

10500 ft

10550 ft

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

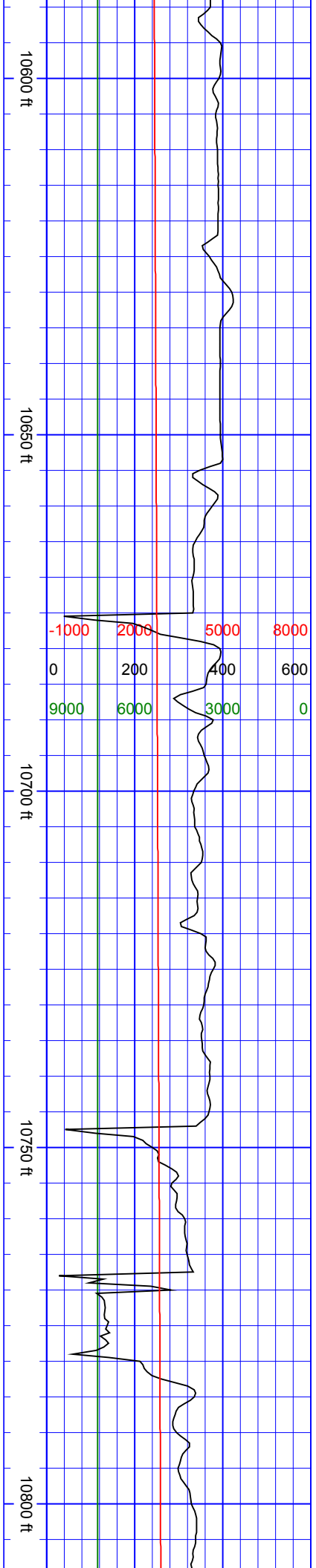


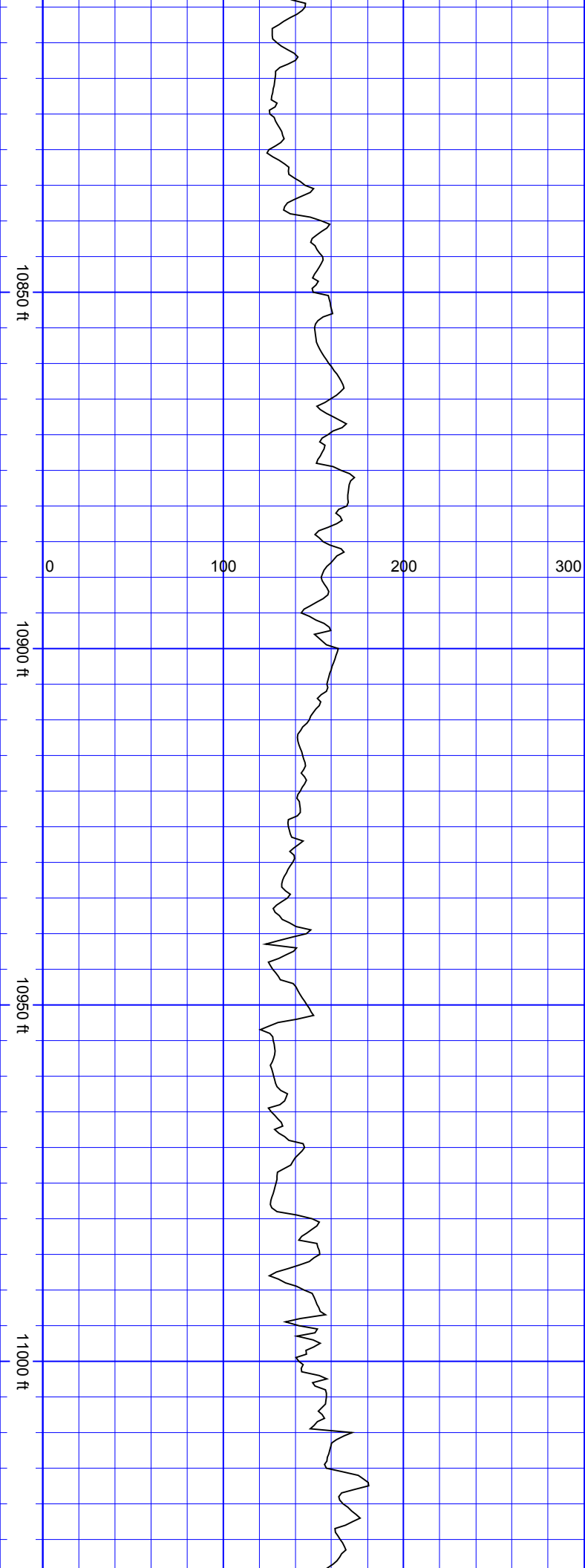


SurveyDepth:10610  
TVD:7250.49 Inc:89.52  
Azi:3.16  
VertSec:2696.38

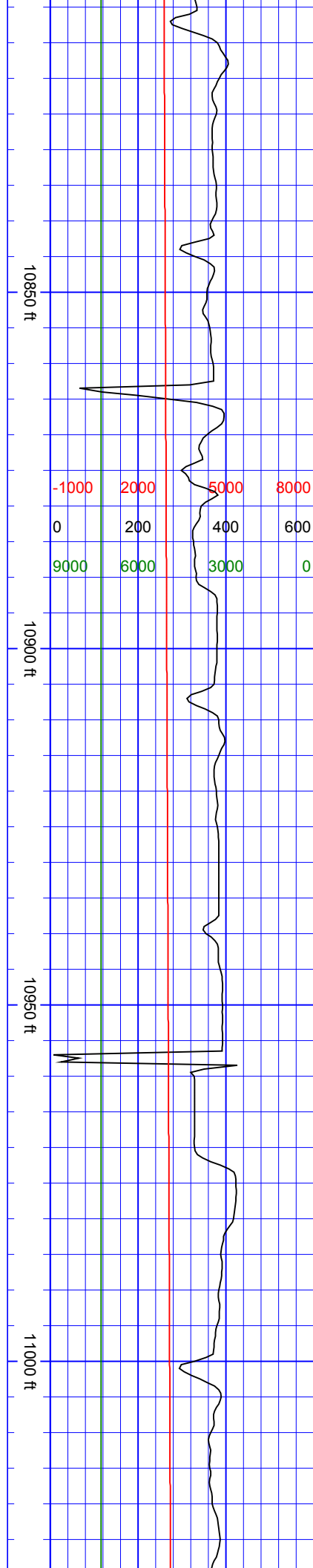
SurveyDepth:10704  
TVD:7251.89 Inc:88.77  
Azi:3.43  
VertSec:2790.24

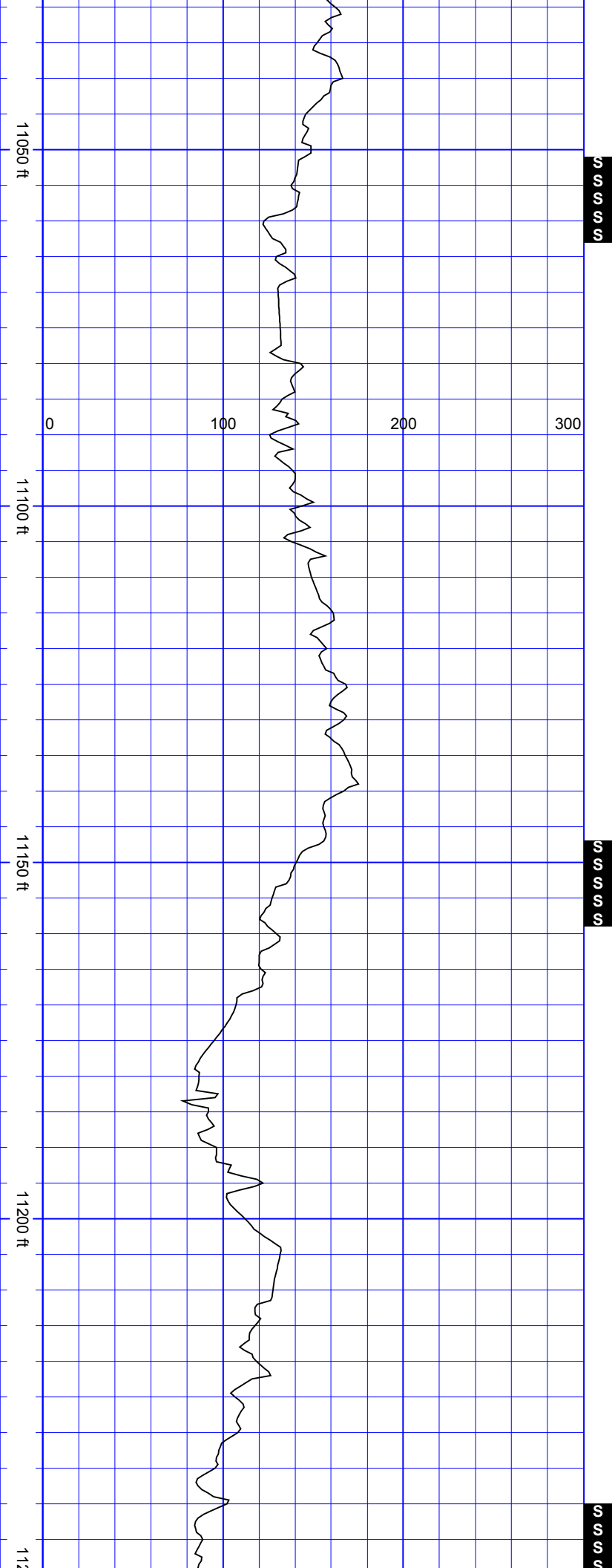
SurveyDepth:10798  
TVD:7252.93 Inc:89.96  
Azi:2.11  
VertSec:2884.06





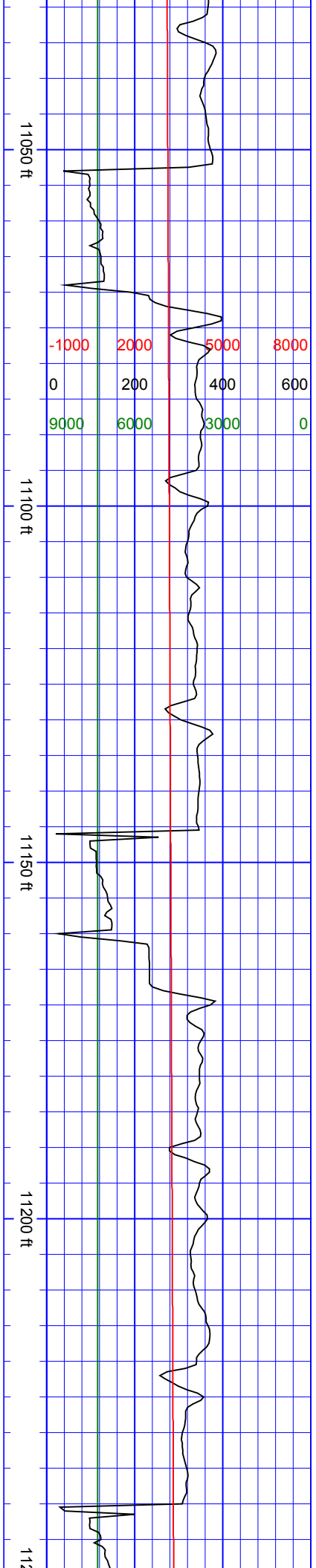
SurveyDepth:10892 TVD:7253.22 Inc:89.69 Azi:1.32 VertSec:2977.77	SurveyDepth:10987 TVD:7254.42 Inc:88.86 Azi:4.57 VertSec:3072.59
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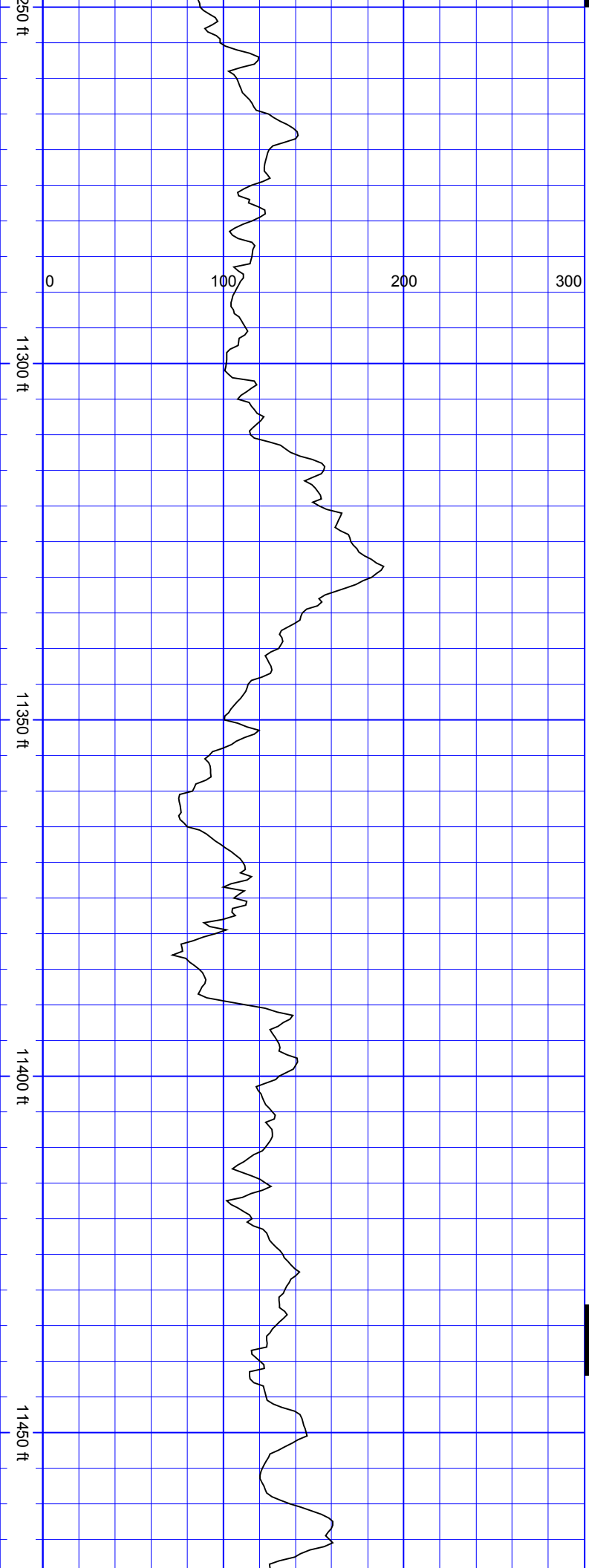




SurveyDepth:11081  
TVD:7256.26 Inc:88.9  
Azi:3.34 VertSec:3166.5

SurveyDepth:11176  
TVD:7257.68 Inc:89.39  
Azi:1.32  
VertSec:3261.26

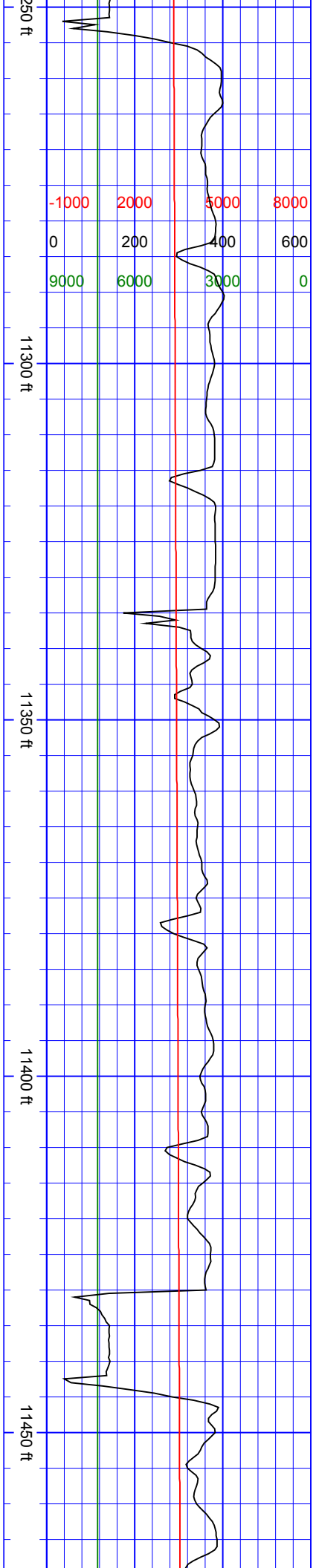


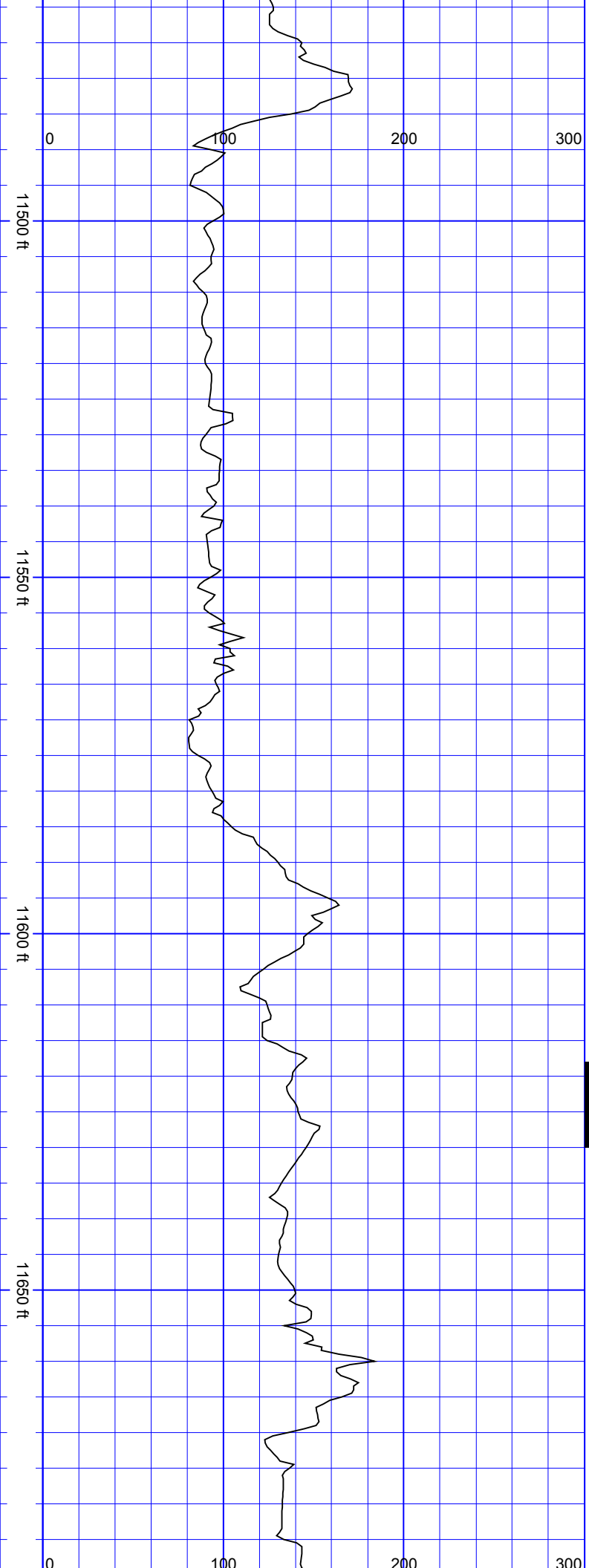


SurveyDepth:11270  
TVD:7257.2 Inc:91.19  
Azi:0.53  
VertSec:3354.85

SurveyDepth:11365  
TVD:7255.05 Inc:91.41  
Azi:359.38  
VertSec:3449.25

SurveyDepth:11459  
TVD:7252.52 Inc:91.67  
Azi:0.79  
VertSec:3542.67

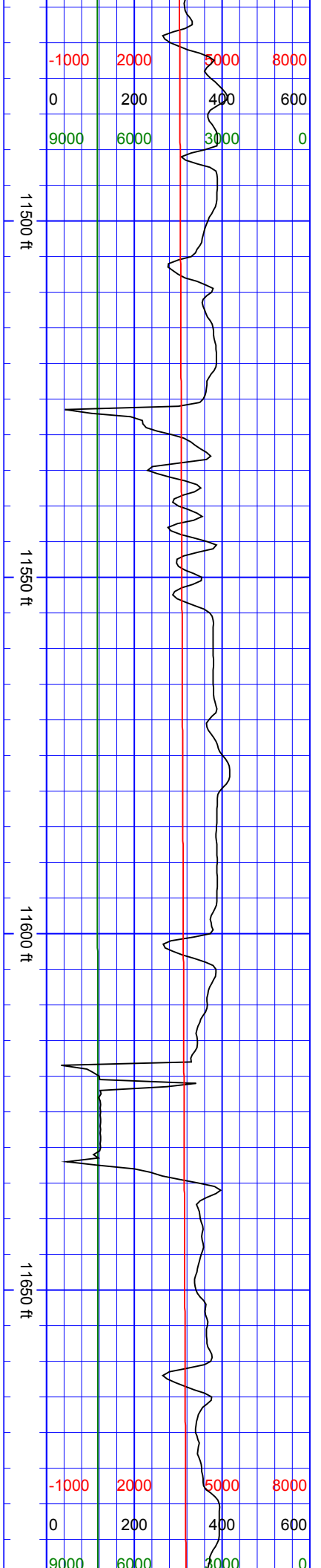


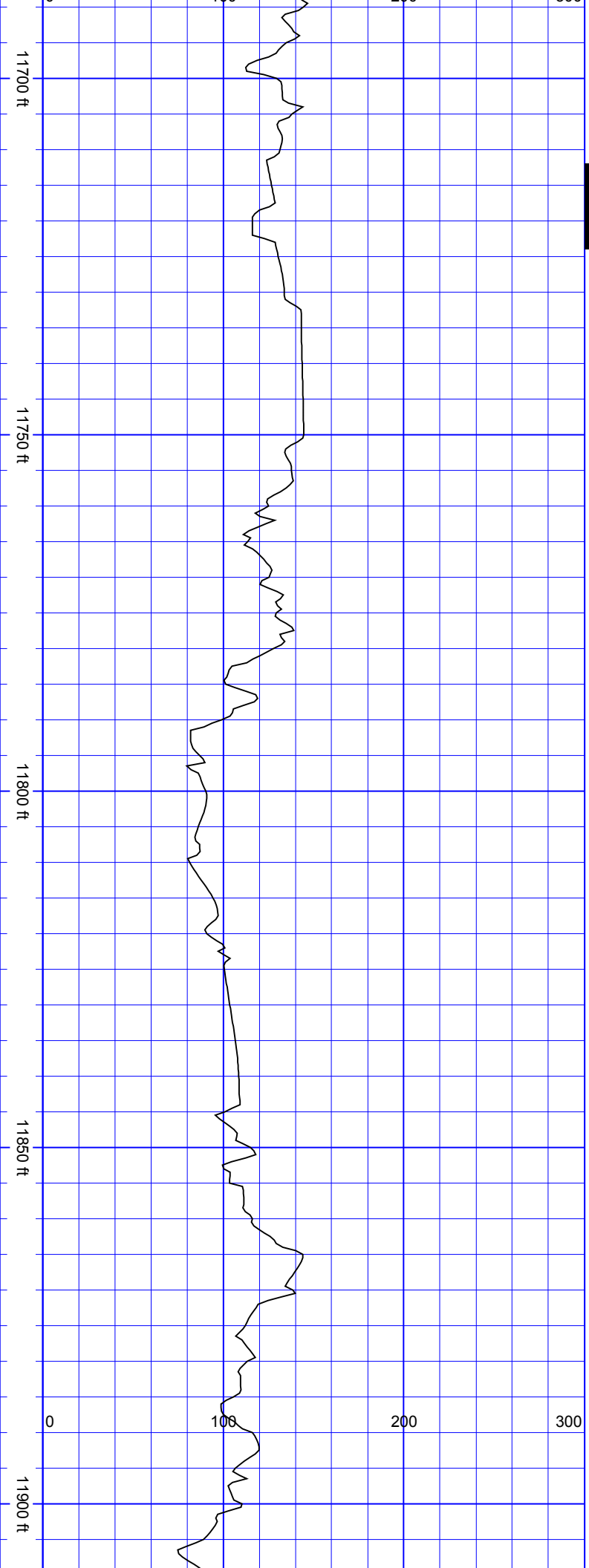


SurveyDepth:11554  
TVD:7249.86 Inc:91.54  
Azi:359.56  
VertSec:3637.1

SSSS

SurveyDepth:11648  
TVD:7247.51 Inc:91.32  
Azi:1.32  
VertSec:3730.59

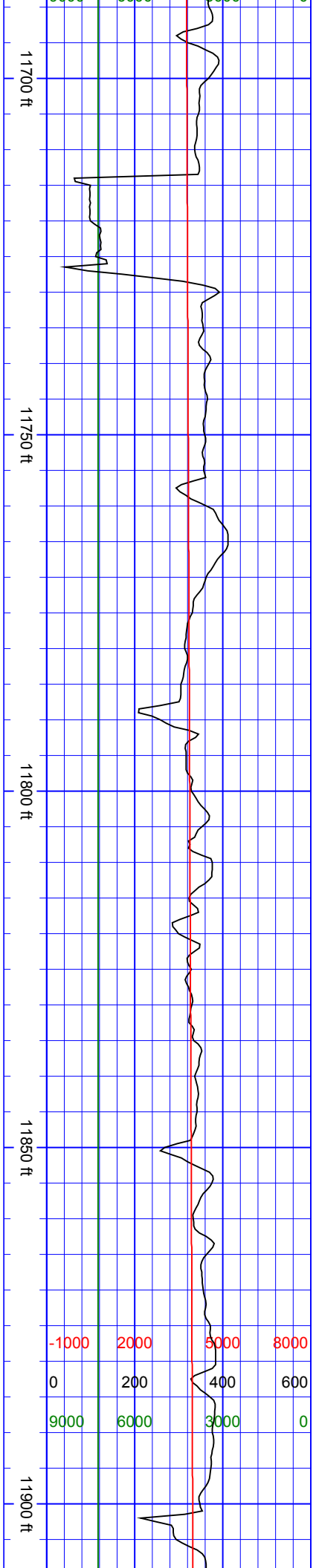


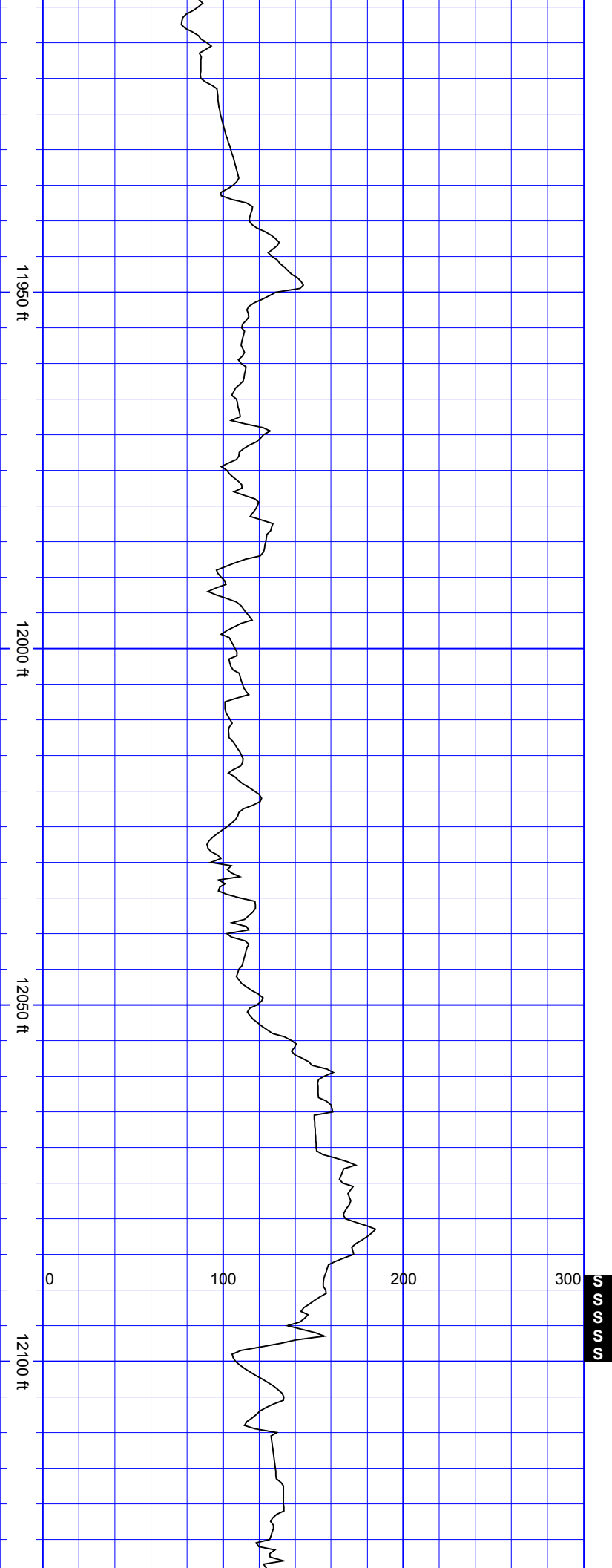


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SurveyDepth:11742  
TVD:7245.86 Inc:90.7  
Azi:3.78  
VertSec:3824.37

SurveyDepth:11836  
TVD:7244.74 Inc:90.66  
Azi:1.76  
VertSec:3918.19

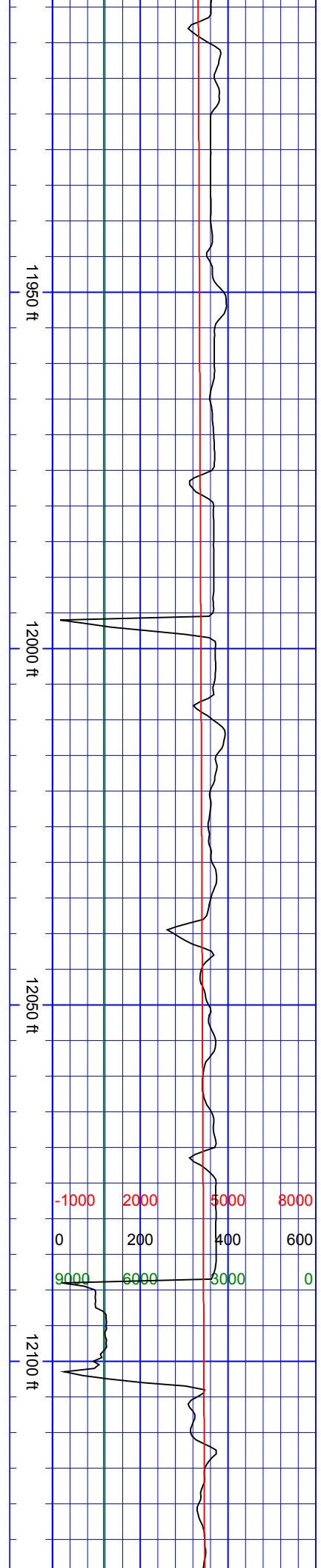


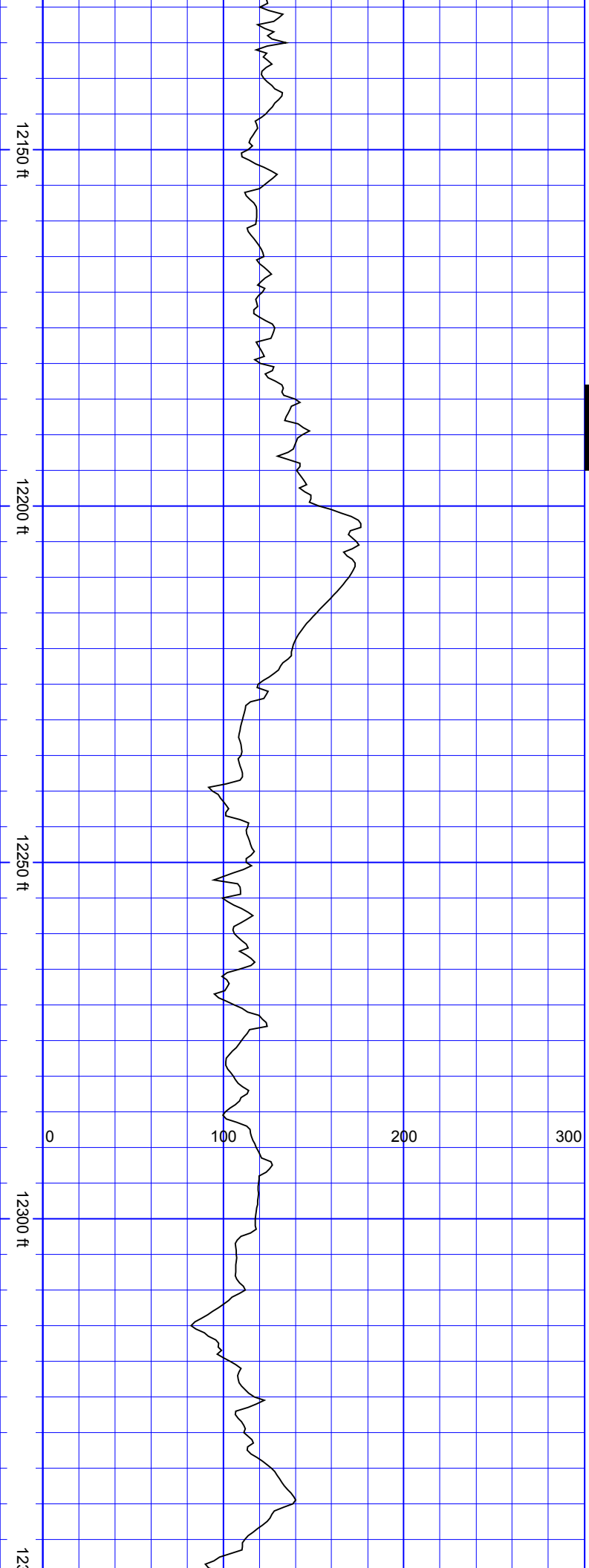


SurveyDepth:11931  
TVD:7243.5 Inc:90.84  
Azi:2.9 VertSec:4012.96

SurveyDepth:12024  
TVD:7242.13 Inc:90.84  
Azi:0.97  
VertSec:4105.68

SurveyDepth:12119  
TVD:7241.22 Inc:90.26  
Azi:2.64  
VertSec:4200.39

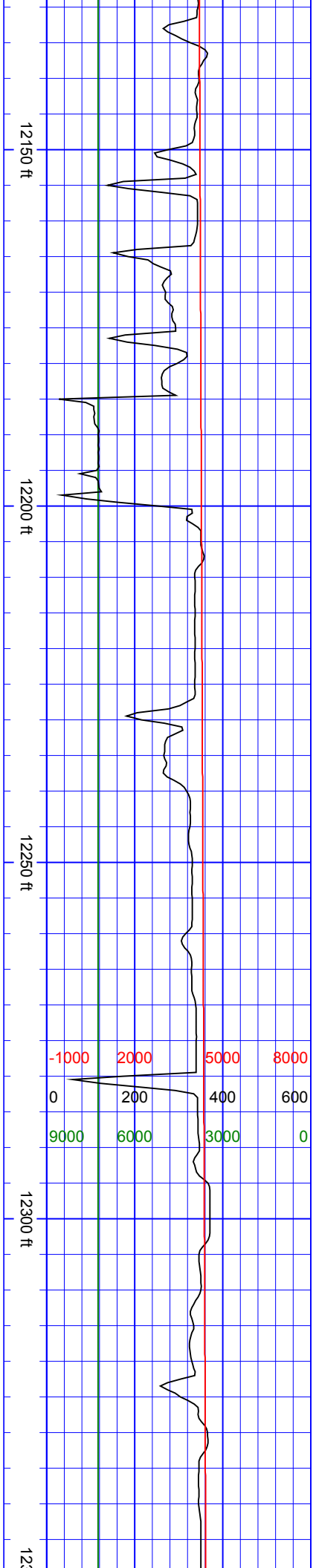




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SurveyDepth:12213  
TVD:7242.48 Inc:88.2  
Azi:1.49  
VertSec:4294.12

SurveyDepth:12307  
TVD:7245.62 Inc:87.98  
Azi:2.02  
VertSec:4387.78

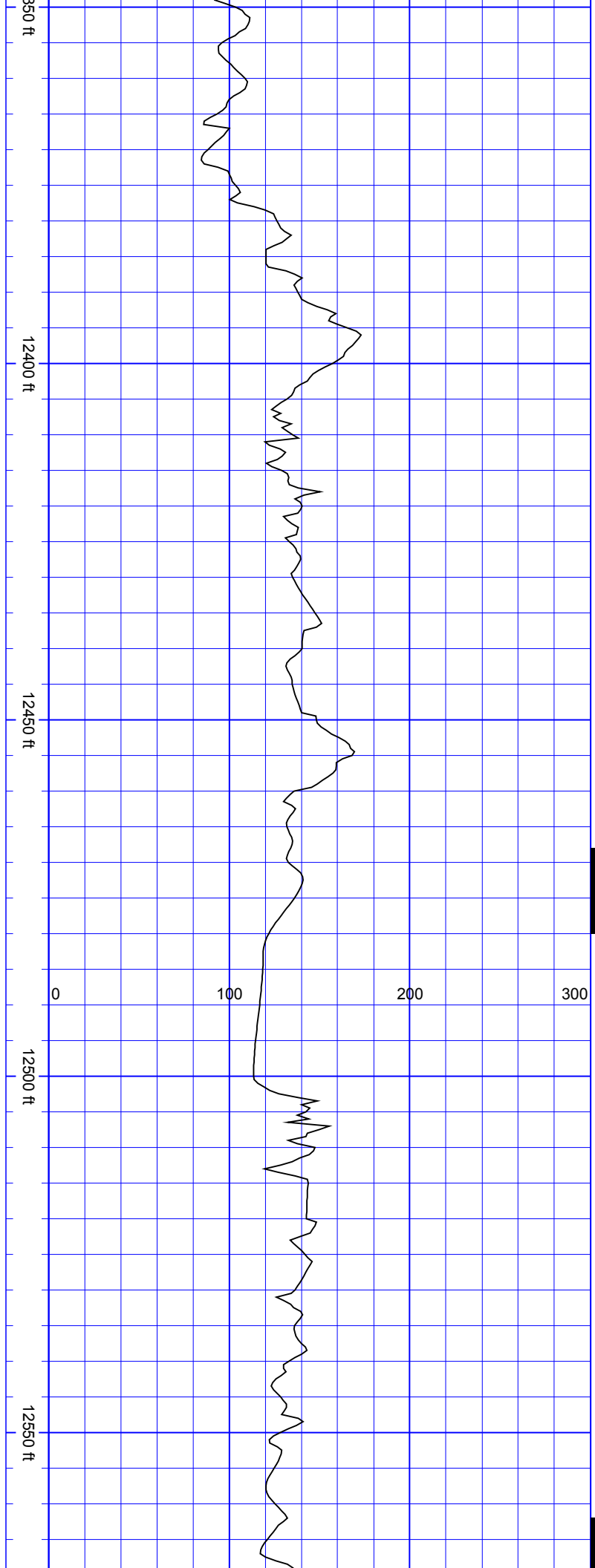


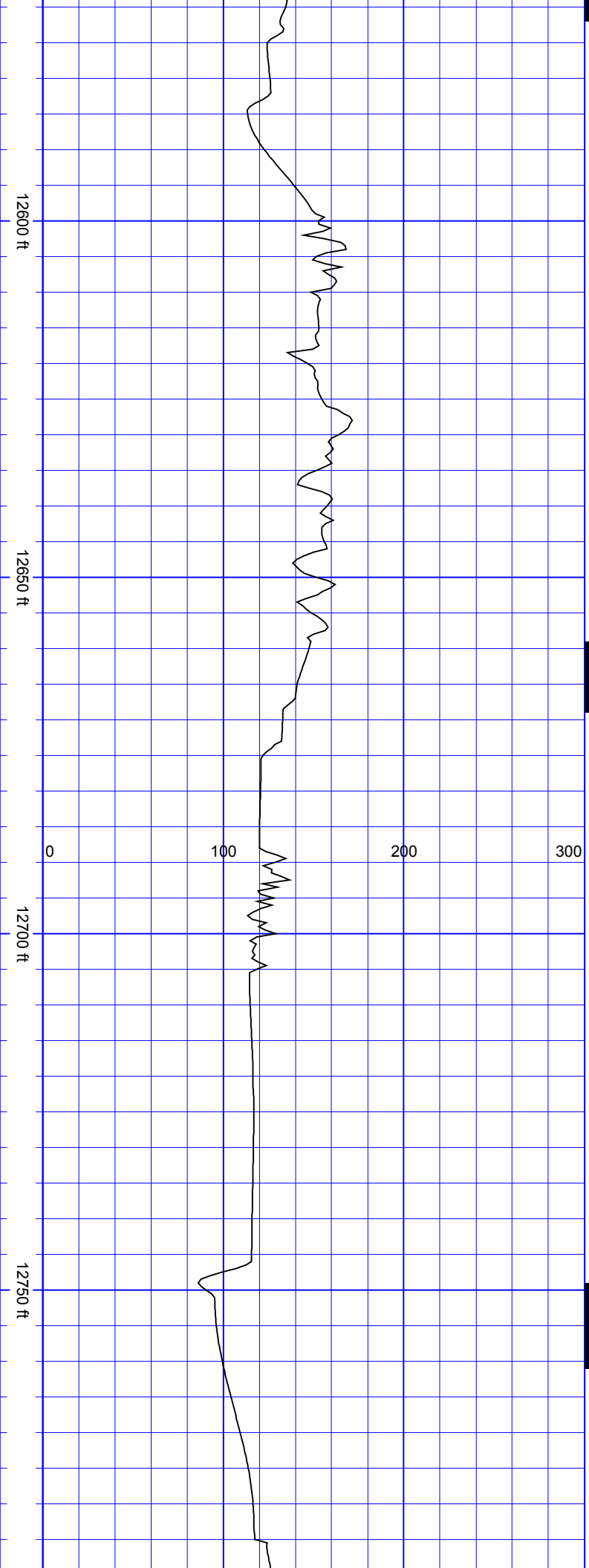




SurveyDepth:12401  
TVD:7249.22 Inc:87.63  
Azi:359.82  
VertSec:4481.3

SurveyDepth:12496  
TVD:7252.46 Inc:88.46  
Azi:1.93  
VertSec:4575.83





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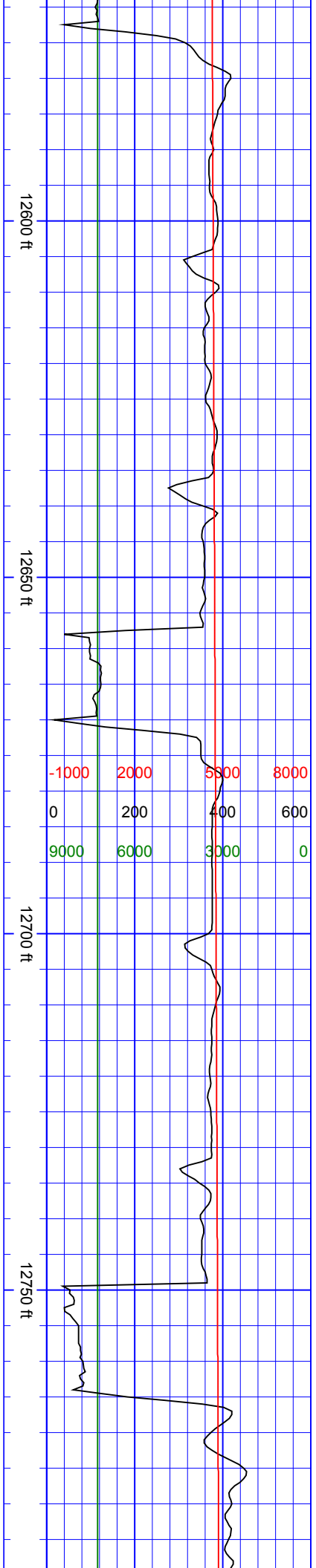
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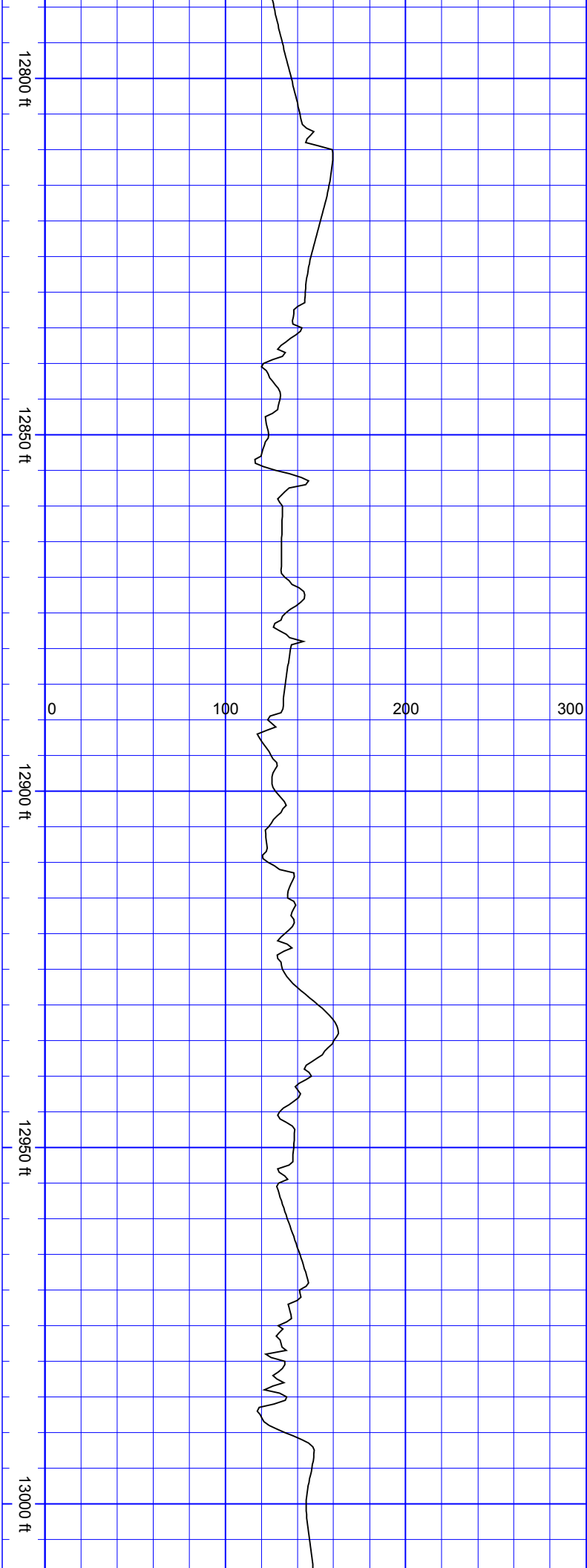
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SurveyDepth:12590  
TVD:7254.26 Inc:89.34  
Azi:359.74  
VertSec:4669.38

SurveyDepth:12685  
TVD:7255.18 Inc:89.56  
Azi:1.67  
VertSec:4763.93

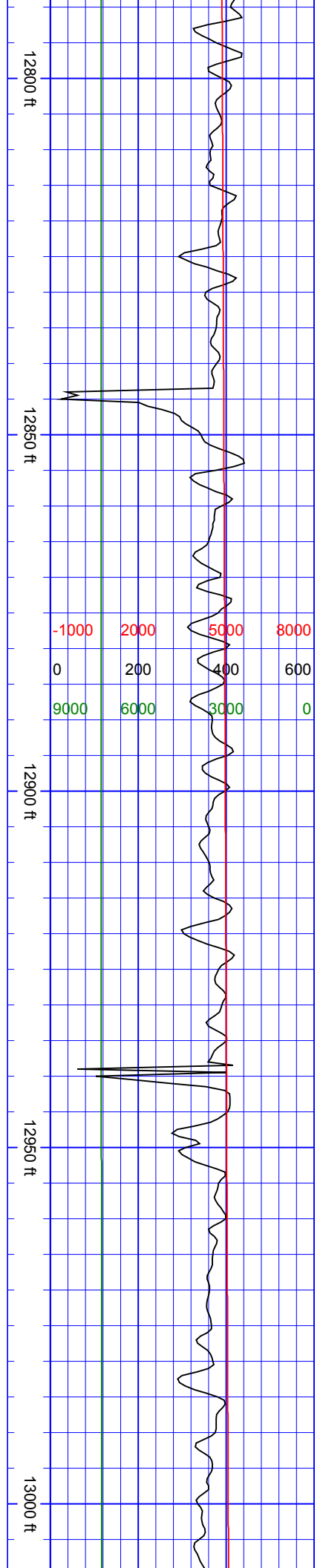
SurveyDepth:12779  
TVD:7254.2 Inc:91.63  
Azi:1.84  
VertSec:4857.63

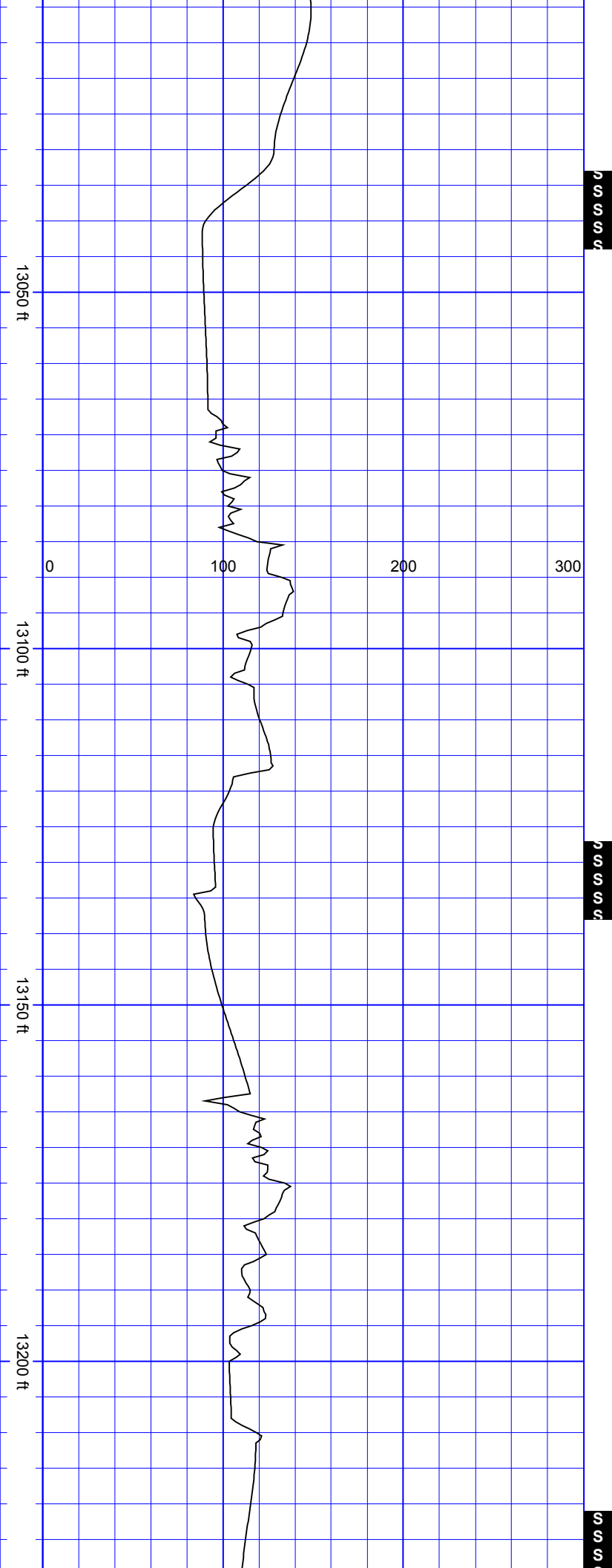




SurveyDepth:12874  
TVD:7251.32 Inc:91.85  
Azi:1.49  
VertSec:4952.29

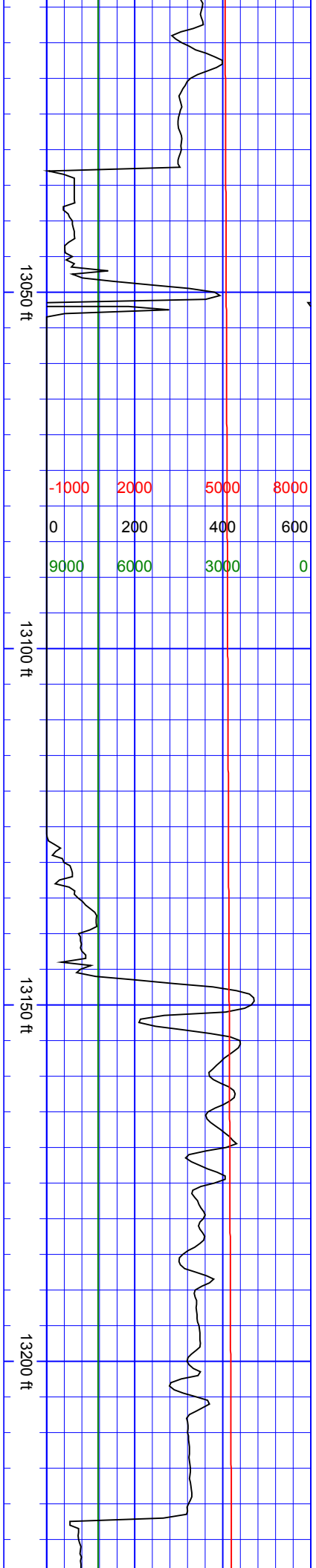
SurveyDepth:12969  
TVD:7248.07 Inc:92.07  
Azi:0.61  
VertSec:5046.84



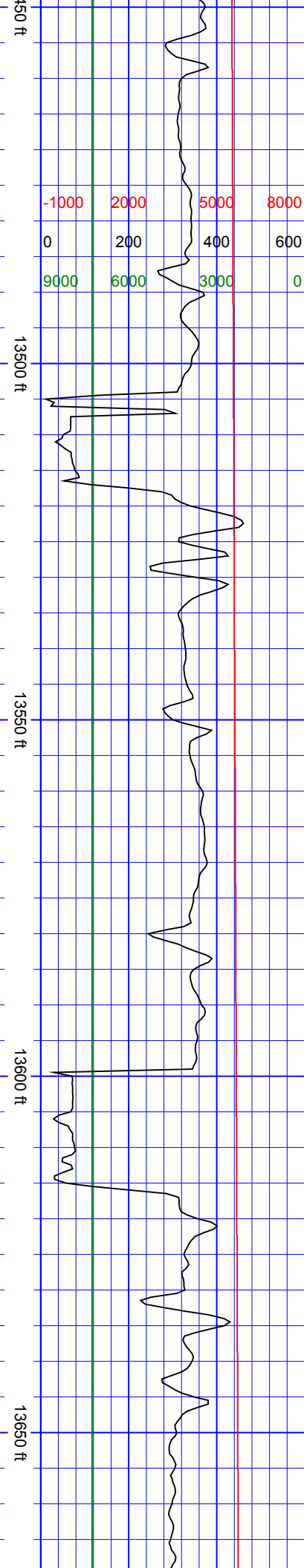


SurveyDepth:13063  
TVD:7245.57 Inc:90.97  
Azi:1.84  
VertSec:5140.45

SurveyDepth:13157  
TVD:7243.33 Inc:91.76  
Azi:3.6 VertSec:5234.24







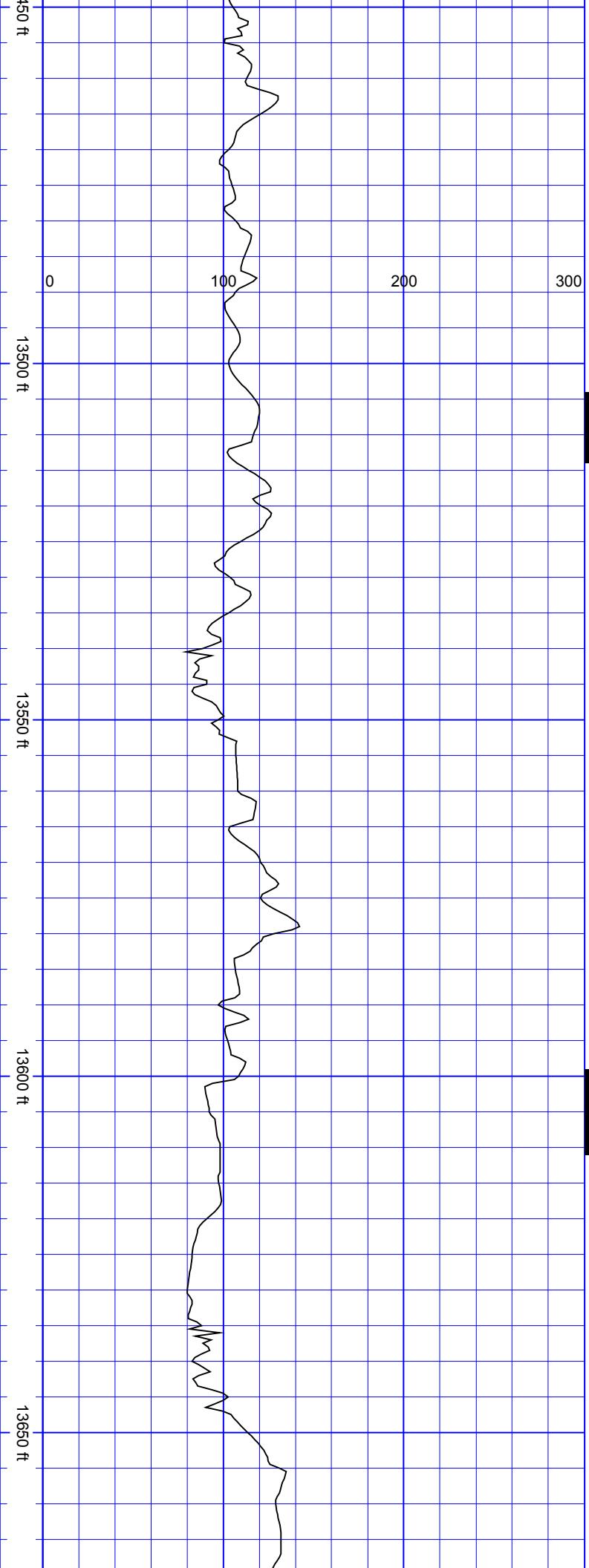
August 27, 2018

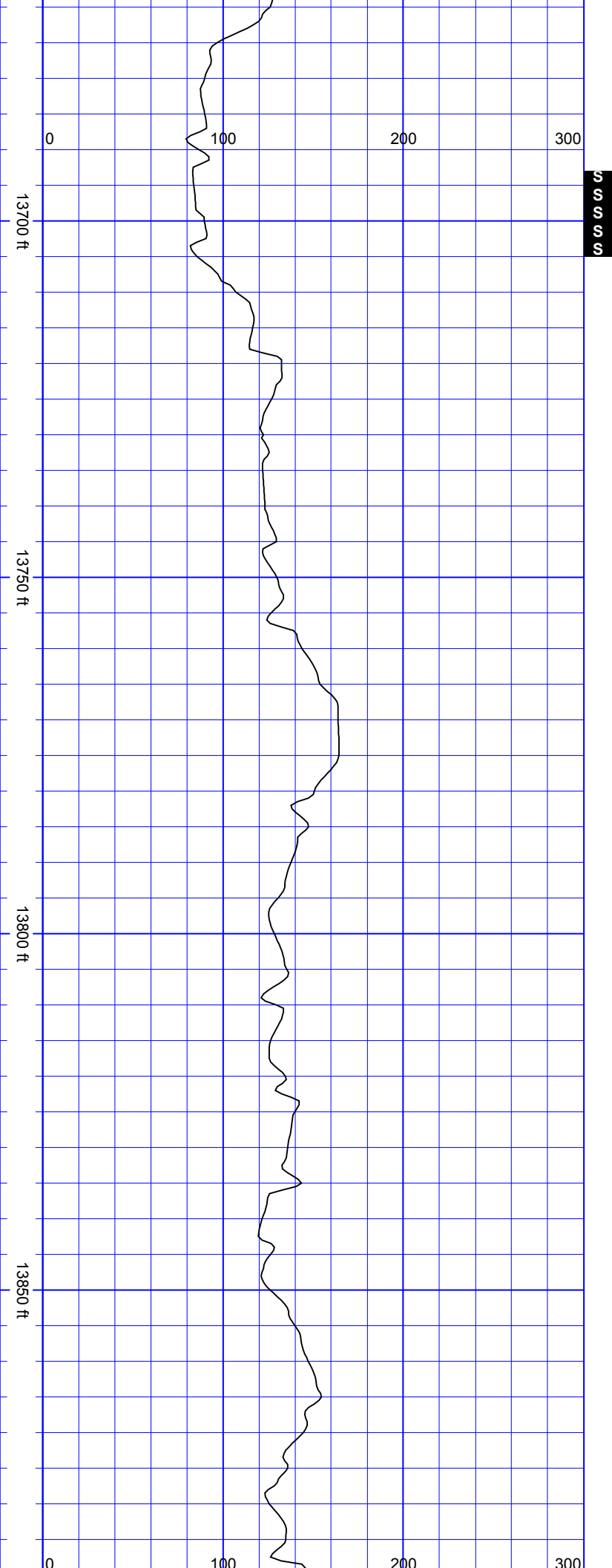
SurveyDepth:13535  
TVD:7243.71 Inc:87.94  
Azi:358.86  
VertSec:5610.77

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SurveyDepth:13629  
TVD:7245.9 Inc:89.39  
Azi:358.5  
VertSec:5703.92

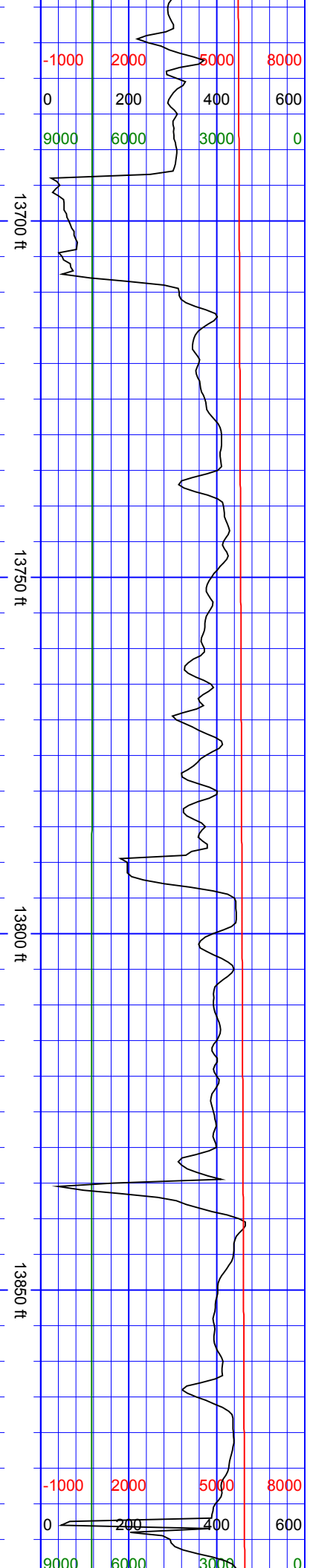


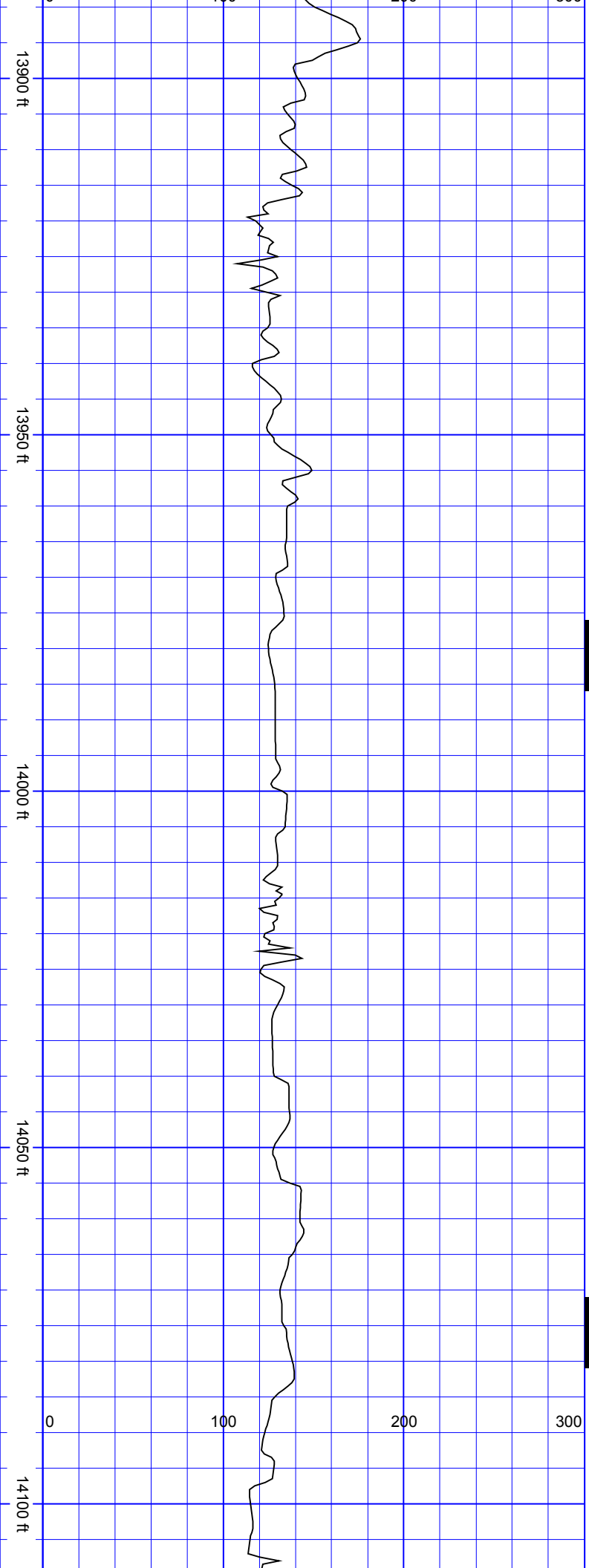


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SurveyDepth:13724  
TVD:7247.28 Inc:88.95  
Azi:355.08  
VertSec:5797.61

SurveyDepth:13818  
TVD:7249.36 Inc:88.51  
Azi:355.52  
VertSec:5889.88

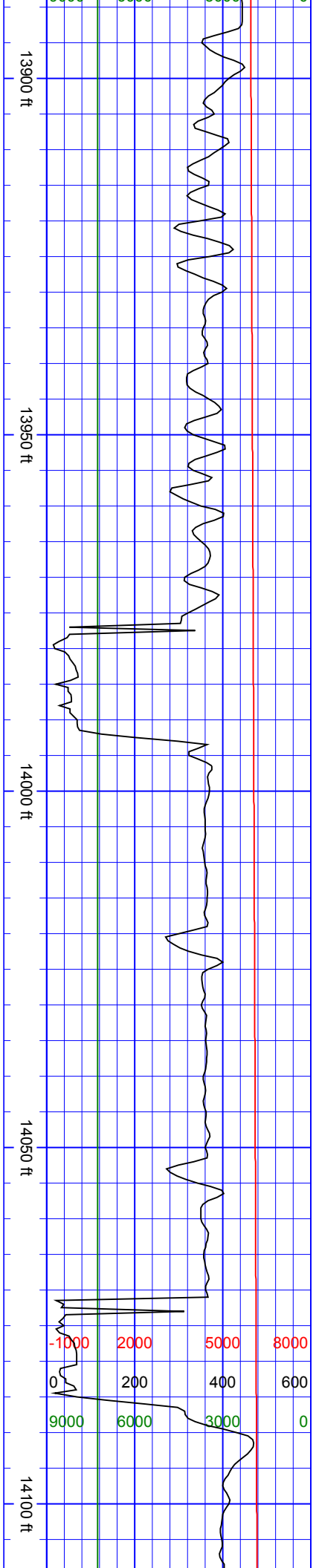




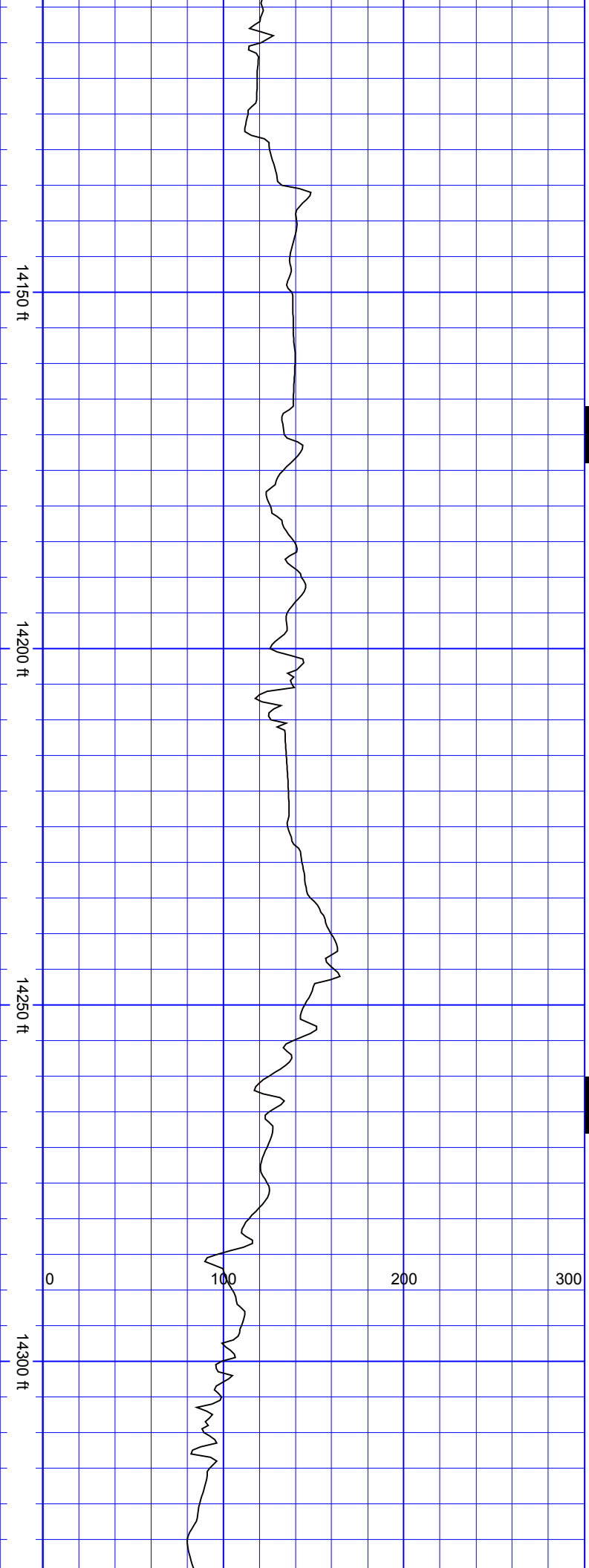
SurveyDepth:13912  
TVD:7252.03 Inc:88.24  
Azi:355.96  
VertSec:5982.27

SurveyDepth:14007  
TVD:7253.45 Inc:90.04  
Azi:353.49  
VertSec:6075.33

SurveyDepth:14102  
TVD:7252.25 Inc:91.41  
Azi:355.43







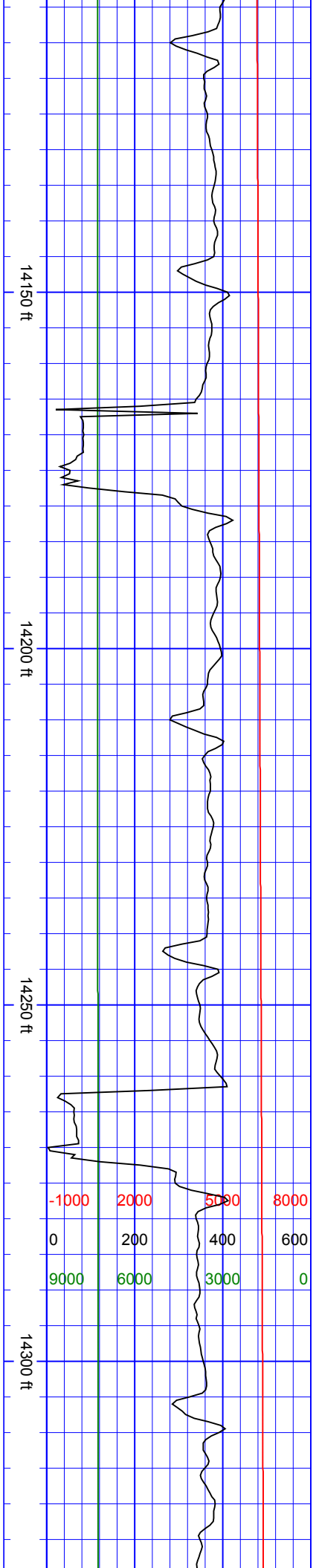
SSS

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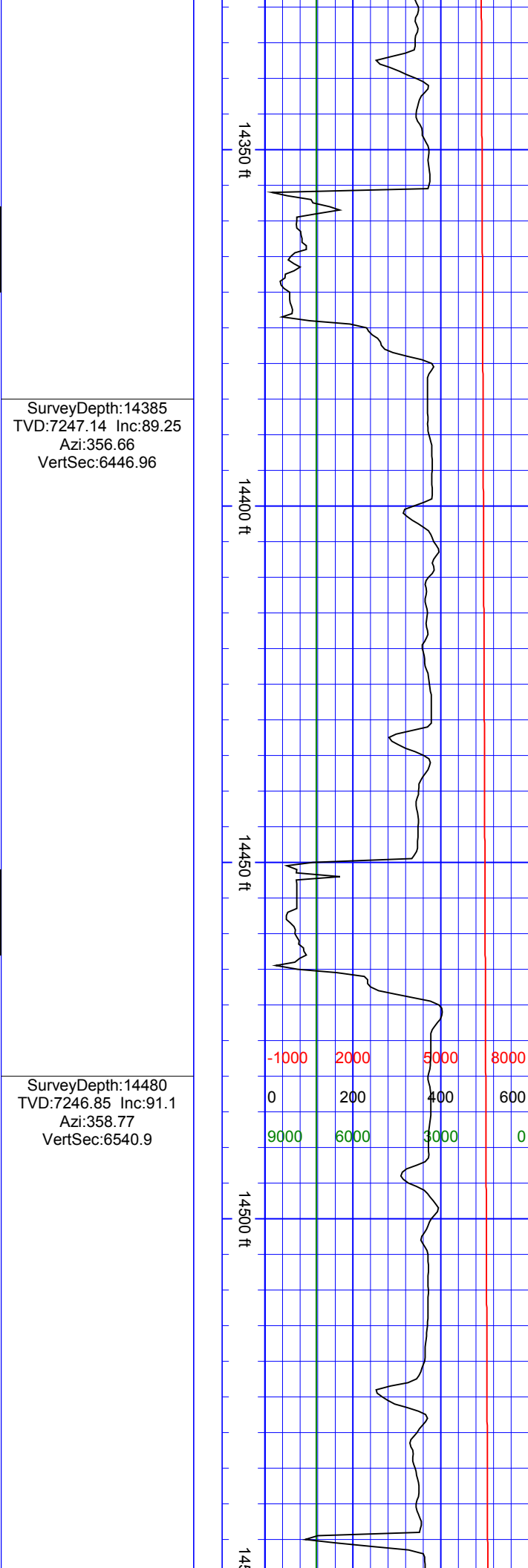
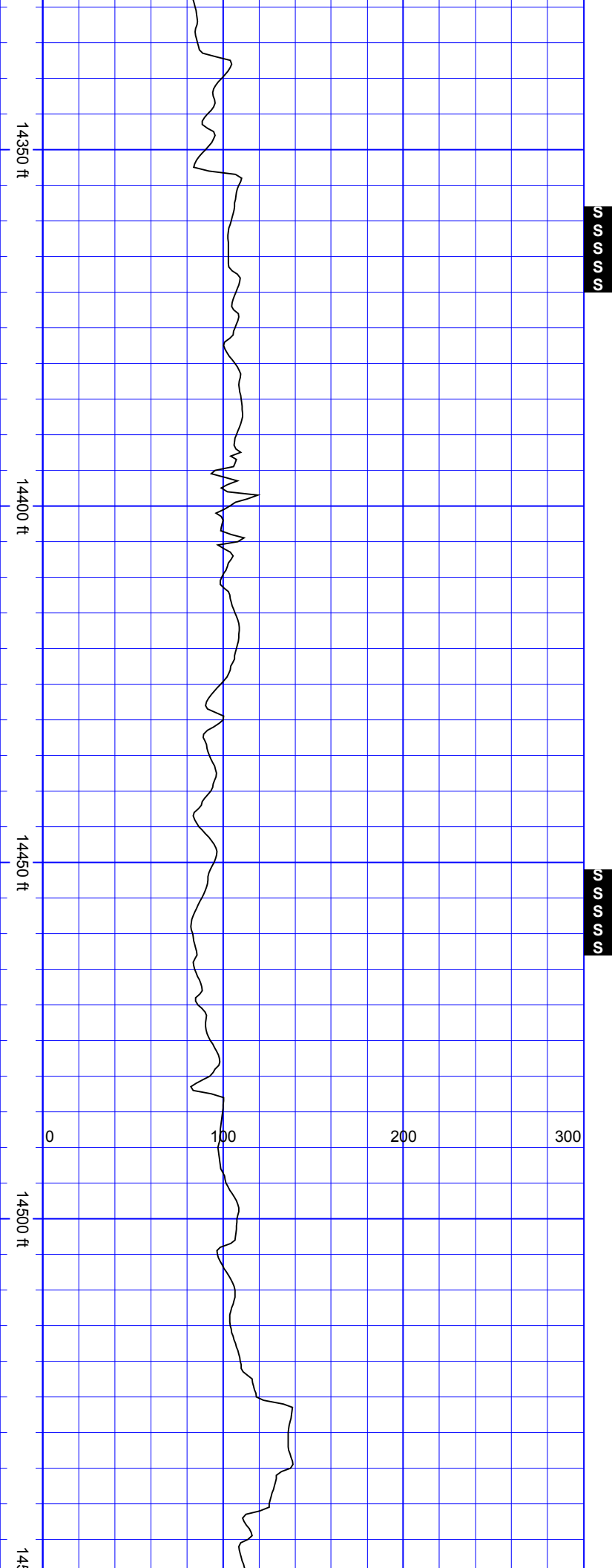
VertSec:6168.32

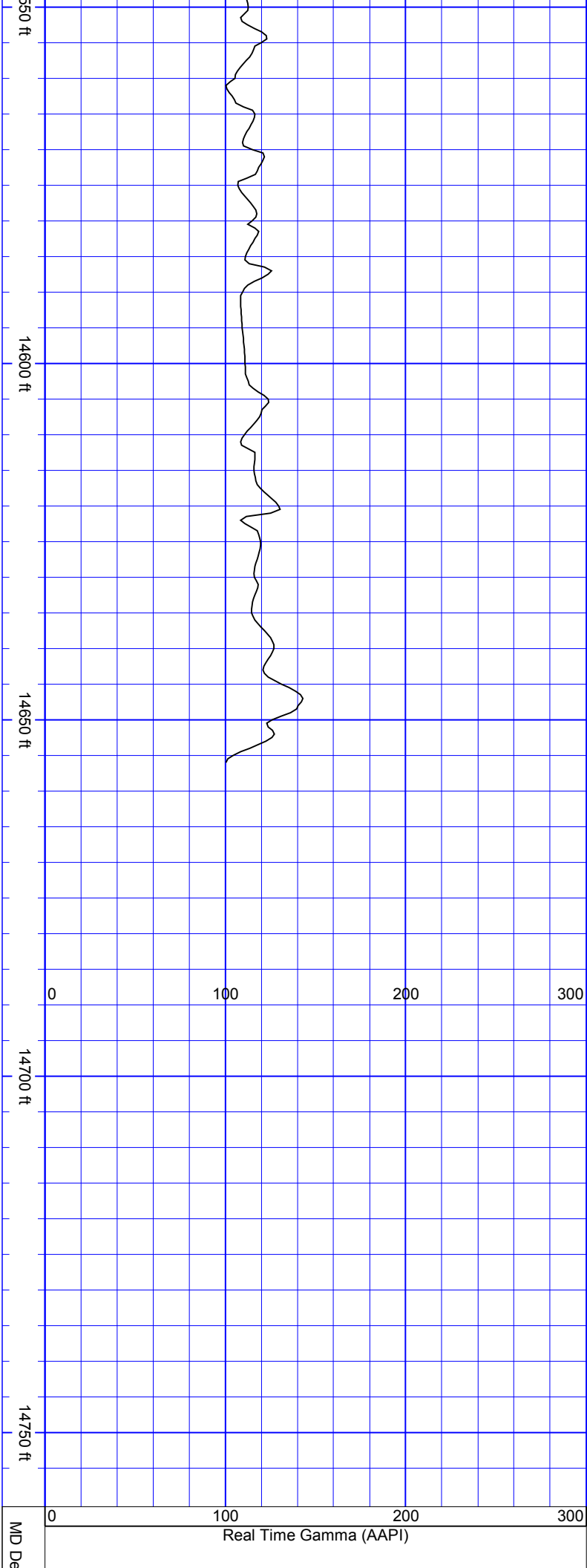
SurveyDepth:14196  
TVD:7249.91 Inc:91.45  
Azi:356.83  
VertSec:6260.83

SurveyDepth:14291  
TVD:7247.61 Inc:91.32  
Azi:355.87  
VertSec:6354.39



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



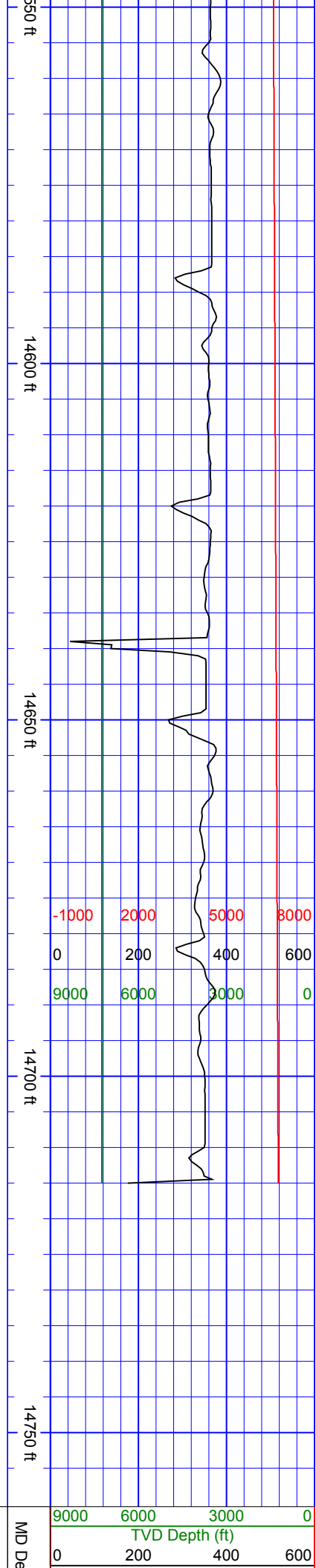


SurveyDepth:14574  
TVD:7244.91 Inc:91.27  
Azi:359.56  
VertSec:6634.17

SurveyDepth:14651  
TVD:7243.64 Inc:90.62  
Azi:358.86  
VertSec:6710.58

Extrapolation to Bit  
SurveyDepth:14715  
TVD:7242.95 Inc:90.62  
Azi:358.86  
VertSec:6774.04

Dir



MD De

Drill Rate (ft/hr)						
-1000	2000	5000	8000			
Vertical Section (ft)						
ROP - VERT SEC - TVD						
ft"	Depth "Scale 5" = 100					
Date						
Sectional Survey						
Slide - Rotate						
GAMMA RAY						
ft"						
Depth "Scale 5" = 100						