

Realtime LWD Data - Field Copy

Extraction

Well: Interchange A S22-30-21N

Scale 1:240 MD

Plot Range: 9030 ft to 23550 ft

HALLIBURTON

Sperry Drilling

Gamma Ray

PGGR

0 300
api

Rate of Penetration

ROPA

500 0
feet per hr

MD

ft

1 : 240

Temperature

STEM

0 300
fahrenheit

Surveys

9040.00' MD 90.05° INC 177.80° AZI
7877.31' TVD -1067.90' VS 1.60DLS

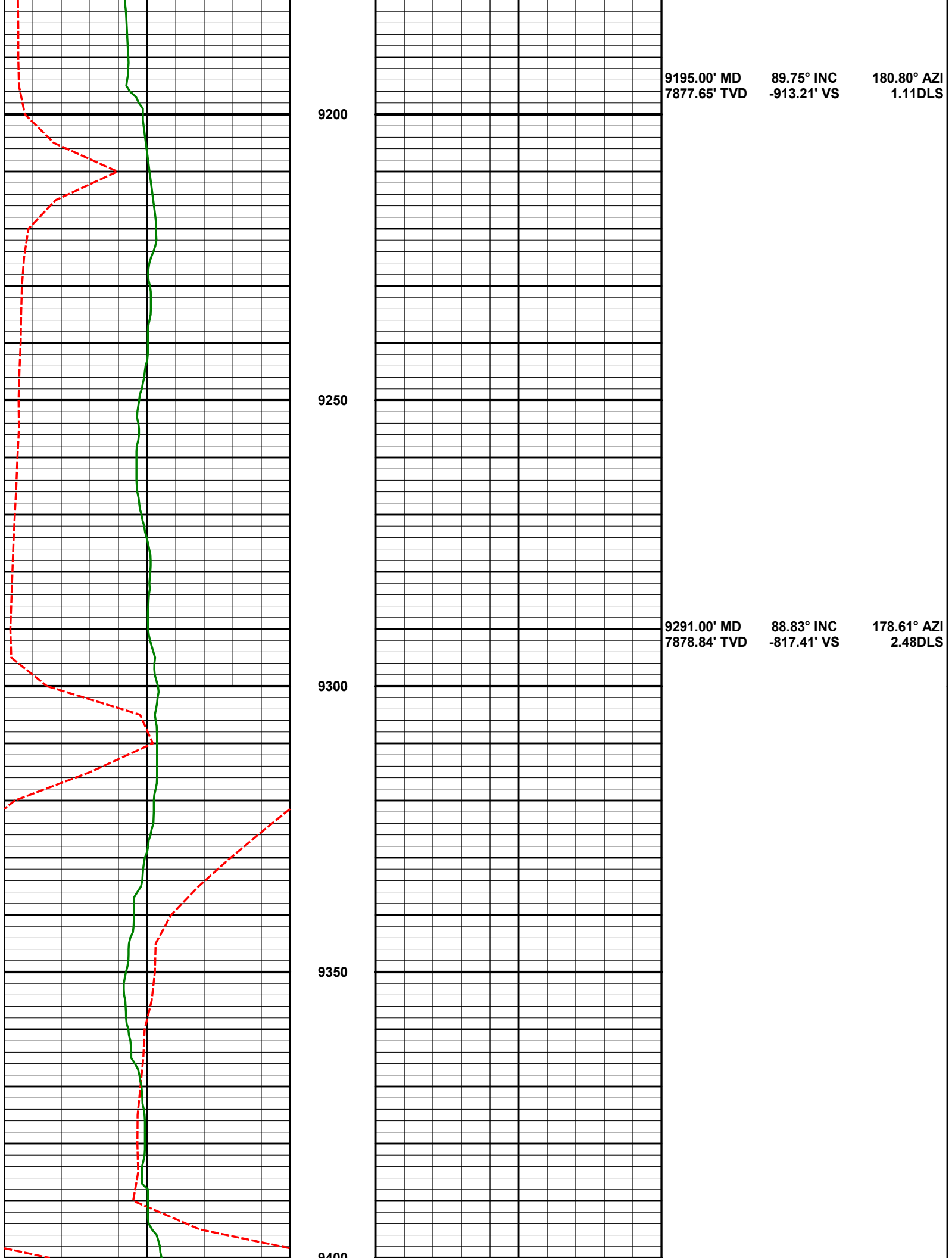
9100.00' MD 89.88° INC 179.75° AZI
7877.34' TVD -1008.08' VS 3.27DLS

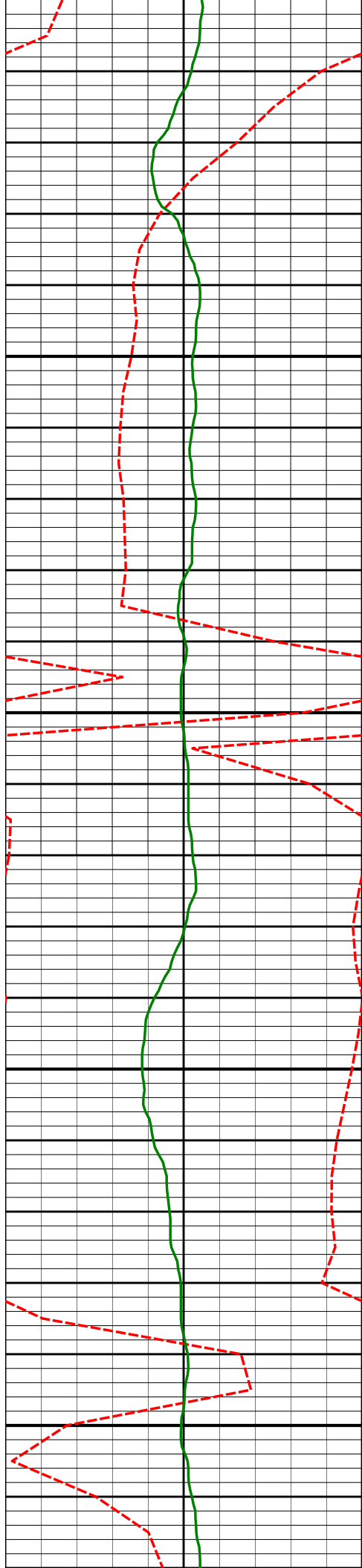
STARTED DRILLING 8.5" HOLE
W/ 6.75" LOGGING TOOLS
AT 9057' MD / 7878 TVD

9050

9100

9150





9400

9450

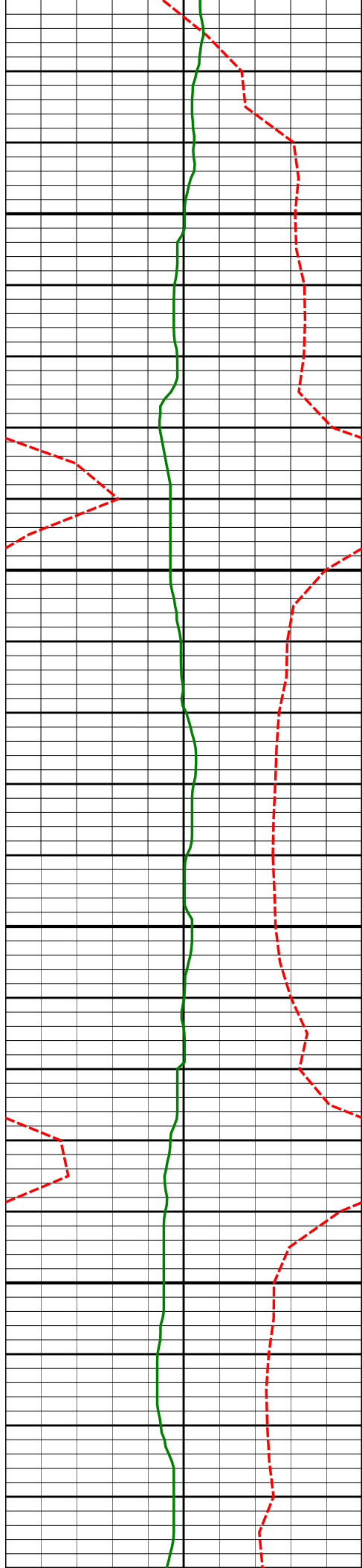
9500

9550

9600

9481.00' MD 88.91° INC 179.69° AZI
7882.59' TVD -627.93' VS 0.57DLS

9575.00' MD 88.84° INC 180.51° AZI
7884.43' TVD -534.08' VS 0.87DLS



9650

9700

9750

9800

9670.00' MD
7886.47' TVD

88.70° INC
-439.22' VS

180.30° AZI
0.27DLS



9850

9900

9950

10000

10050

9860.00' MD
7890.82' TVD

88.67° INC
-249.44' VS

181.33° AZI
0.54DLS

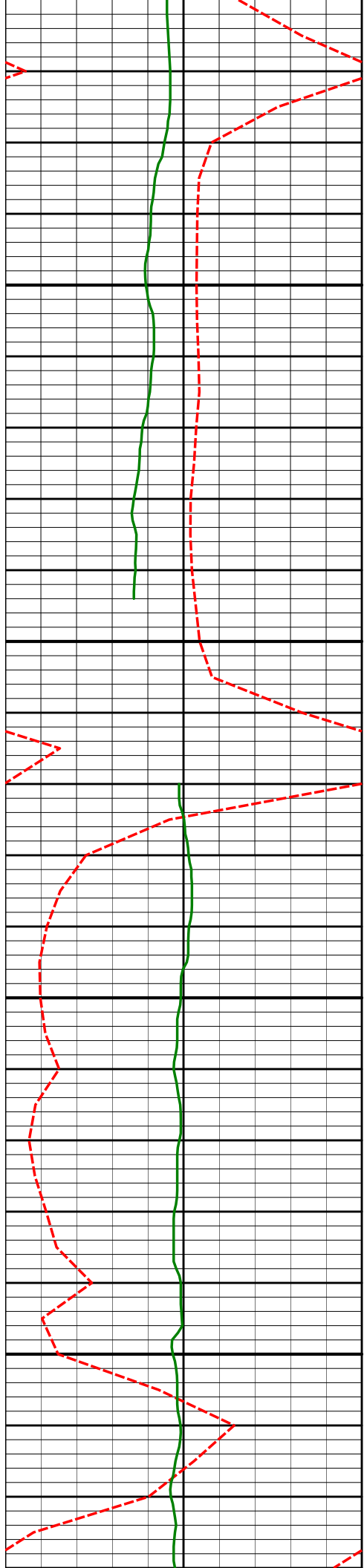
ROPA

FGGR

10050.00' MD
7894.79' TVD

88.93° INC
-59.61' VS

181.04° AZI
0.20DLS



10100

10150

10200

10250

10239.00' MD
7898.36' TVD

88.91° INC
129.05' VS

178.95° AZI
1.11DLS



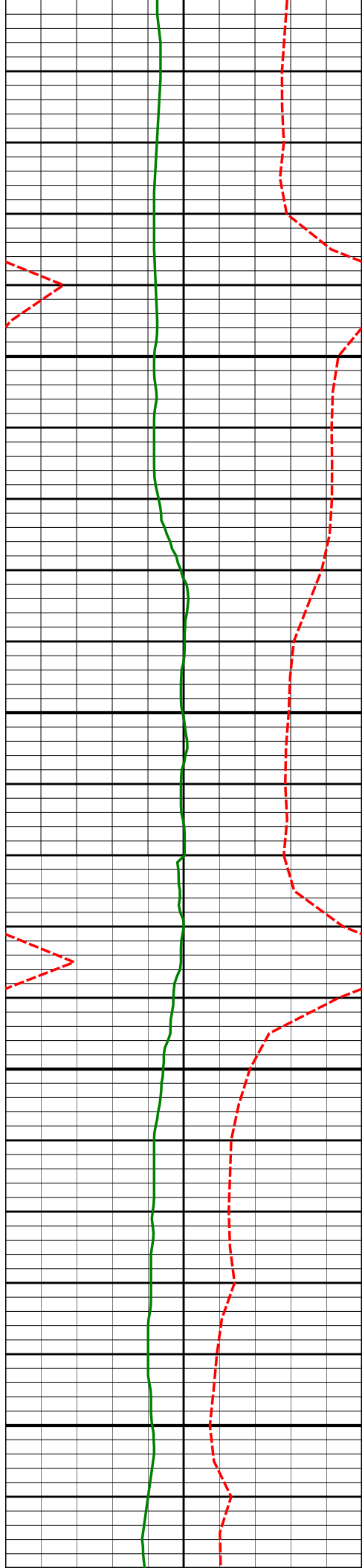
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10350

10400

10450

10500



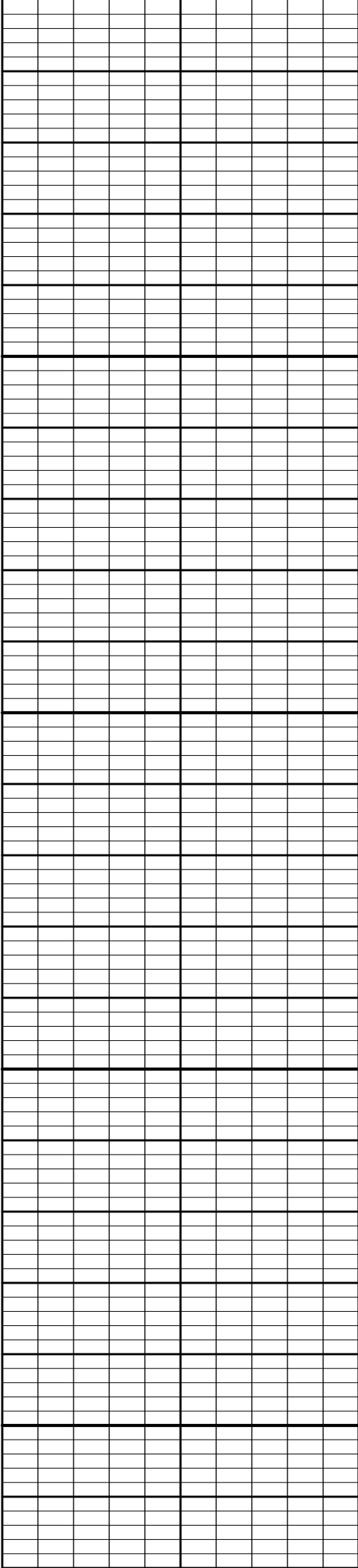
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10550

10600

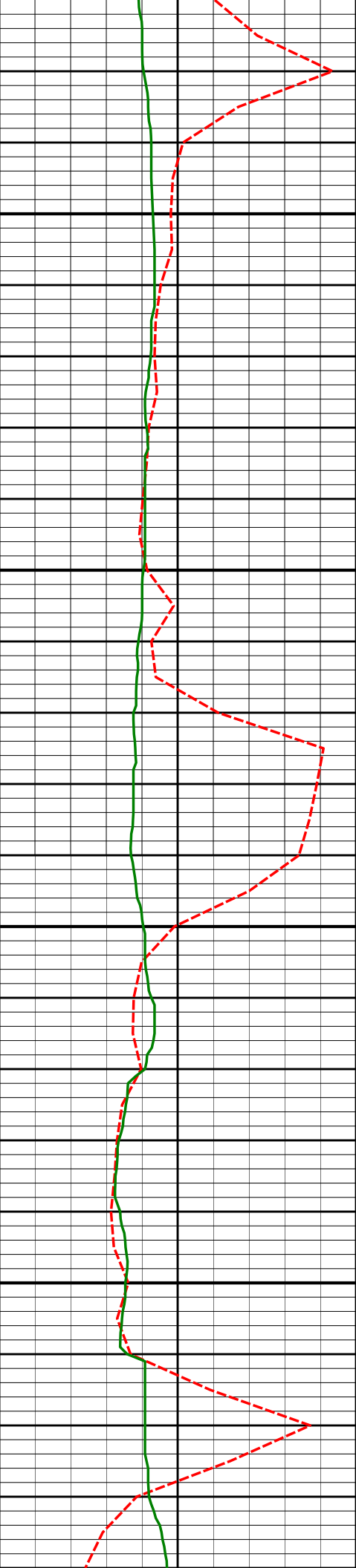
10650

10700



10521.00' MD 90.02° INC 181.51° AZI
7901.00' TVD 410.62' VS 0.99DLS

10711.00' MD 89.40° INC 177.66° AZI
7901.97' TVD 600.20' VS 2.05DLS



10750

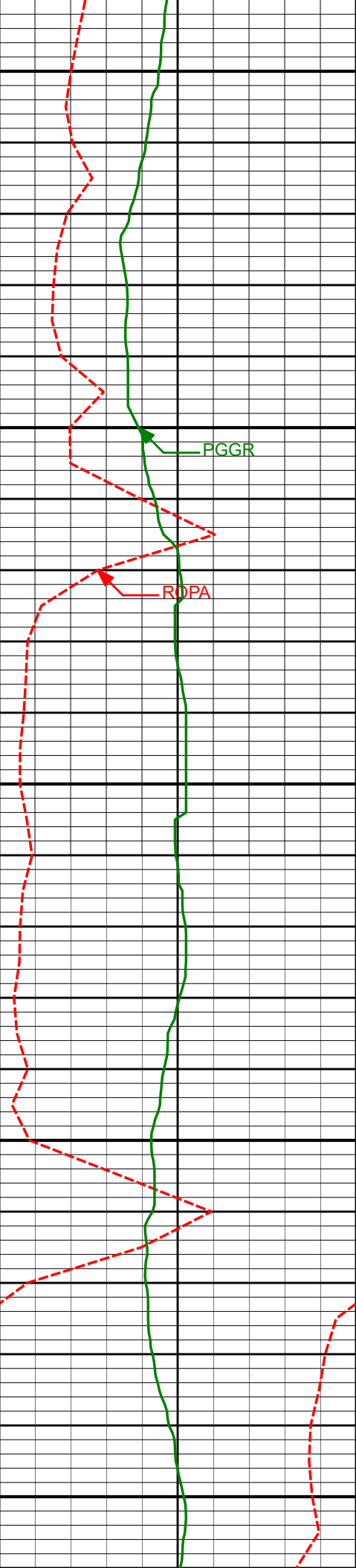
10800

10850

10900

10806.00' MD	89.54° INC	178.91° AZI
7902.85' TVD	694.84' VS	1.33DLS

10901.00' MD	89.58° INC	177.24° AZI
7903.58' TVD	789.45' VS	1.76DLS



10950

11000

11050

11100

11150

PGGR

ROPA

11091.00' MD 89.80° INC 175.67° AZI
7904.61' TVD 978.11' VS 0.83DLS



11200

11250

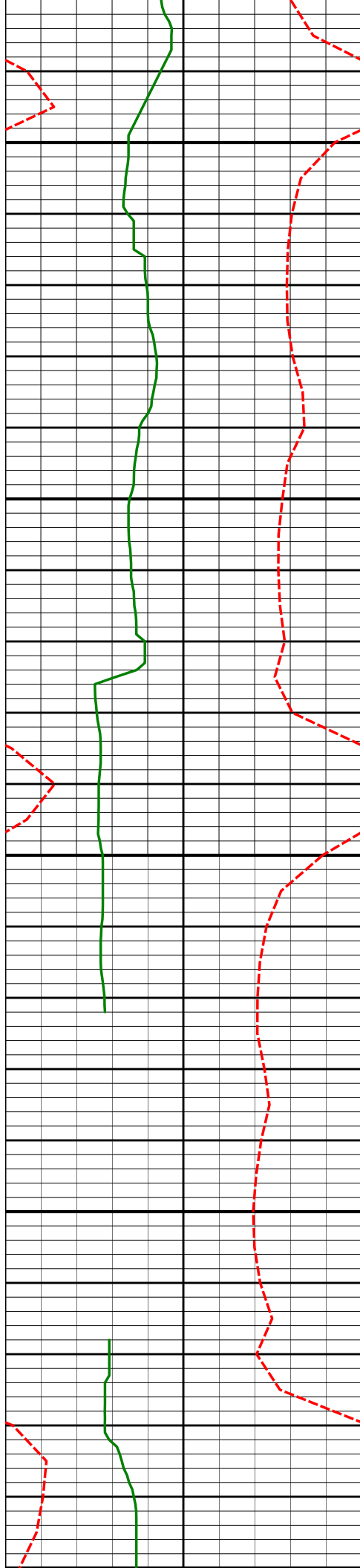
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11350

11185.00' MD 89.65° INC 175.93° AZI
7905.06' TVD 1071.32' VS 0.31DLS

11280.00' MD 89.61° INC 177.14° AZI
7905.67' TVD 1165.67' VS 1.28DLS

11375.00' MD 89.71° INC 179.20° AZI
7906.23' TVD 1260.29' VS 2.17DLS



11400

11450

11500

11550

11600

11470.00' MD 88.90° INC 179.11° AZI
7907.38' TVD 1355.05' VS 0.85DLS



11650

11700

11750

11800

11660.00' MD 88.94° INC 178.02° AZI
7910.97' TVD 1544.38' VS 0.57DLS

11753.00' MD 89.33° INC 176.83° AZI
7912.37' TVD 1636.89' VS 1.35DLS



11850

11900

11950

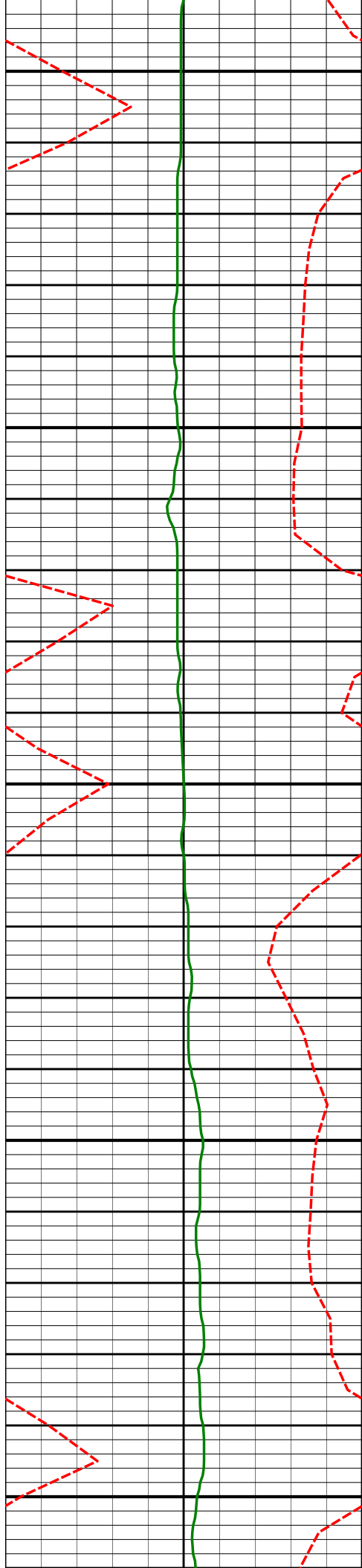
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11848.00' MD 89.03° INC 178.49° AZI
7913.74' TVD 1731.43' VS 1.77DLS

11942.00' MD 89.36° INC 178.16° AZI
7915.06' TVD 1825.08' VS 0.49DLS

PGGR

ROPA



12050

12100

12150

12200

12250

12132.00' MD	89.18° INC	178.89° AZI
7917.48' TVD	2014.42' VS	0.39DLS

12227.00' MD	89.46° INC	181.05° AZI
7918.61' TVD	2109.25' VS	2.30DLS



12300

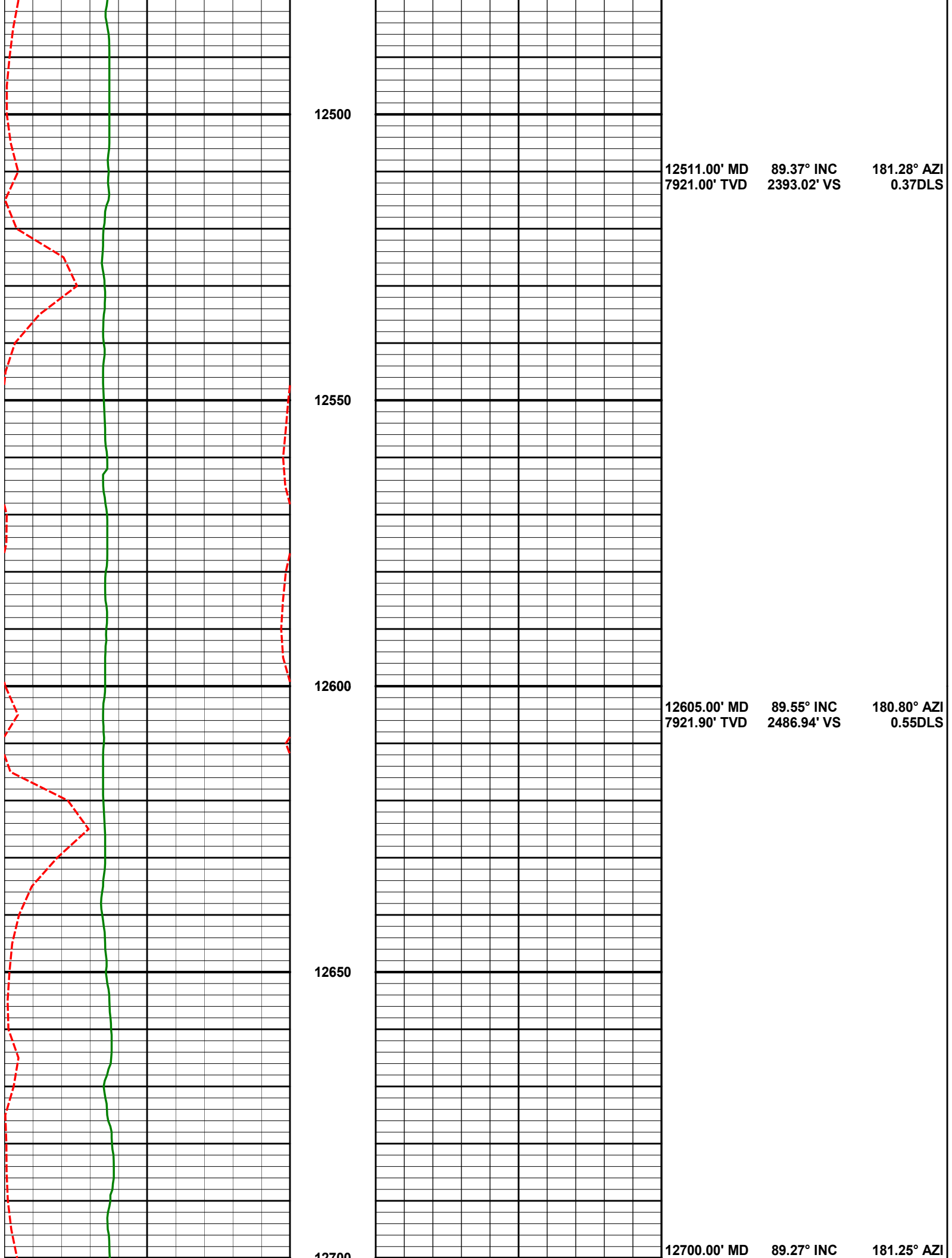
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12400

12450

12321.00' MD	89.41° INC	180.42° AZI
7919.53' TVD	2203.16' VS	0.68DLS

12416.00' MD	89.72° INC	181.28° AZI
7920.25' TVD	2298.07' VS	0.96DLS





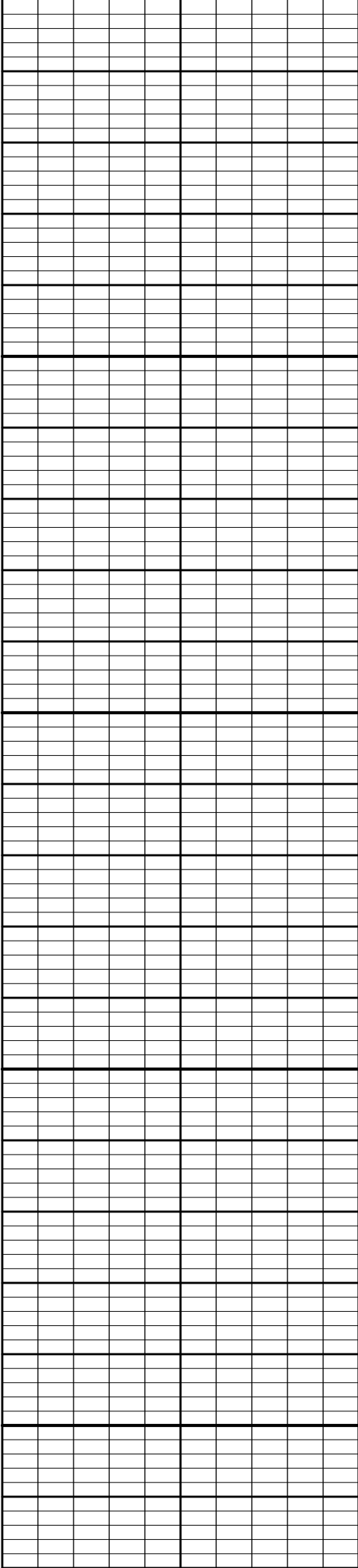
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12750

12800

12850

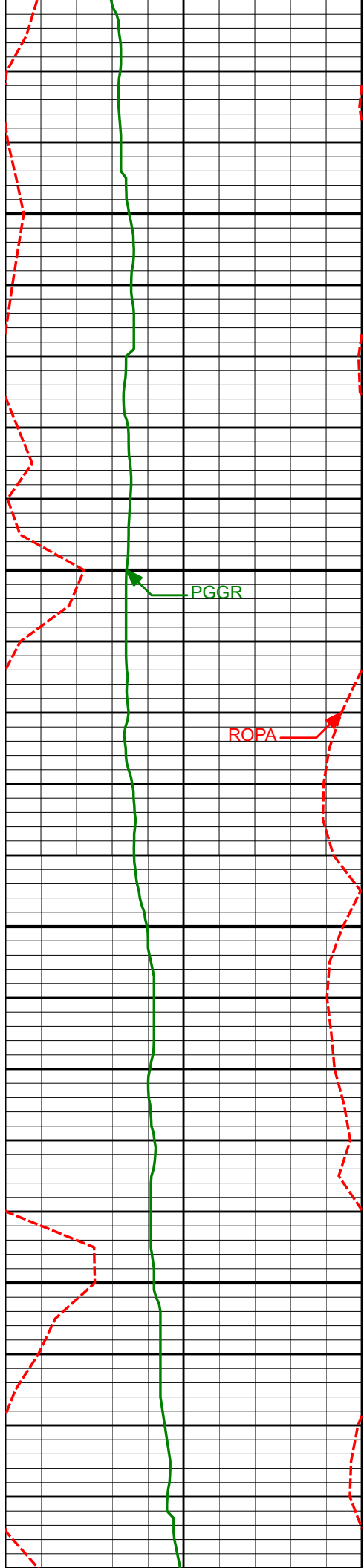
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7922.87' TVD 2581.87' VS 0.55DLS

12795.00' MD 89.71° INC 182.43° AZI
7923.71' TVD 2676.83' VS 1.32DLS

12890.00' MD 89.78° INC 179.71° AZI
7924.14' TVD 2771.76' VS 2.86DLS



12950

13000

PGGR

ROPA

13050

13100

13080.00' MD	89.68° INC	178.44° AZI
7925.04' TVD	2961.25' VS	0.67DLS



13150

13174.00' MD 89.83° INC 179.66° AZI
7925.45' TVD 3055.00' VS 1.30DLS

13200

13250

13269.00' MD 89.60° INC 178.25° AZI
7925.92' TVD 3149.73' VS 1.51DLS

13300

13350



13400

13450

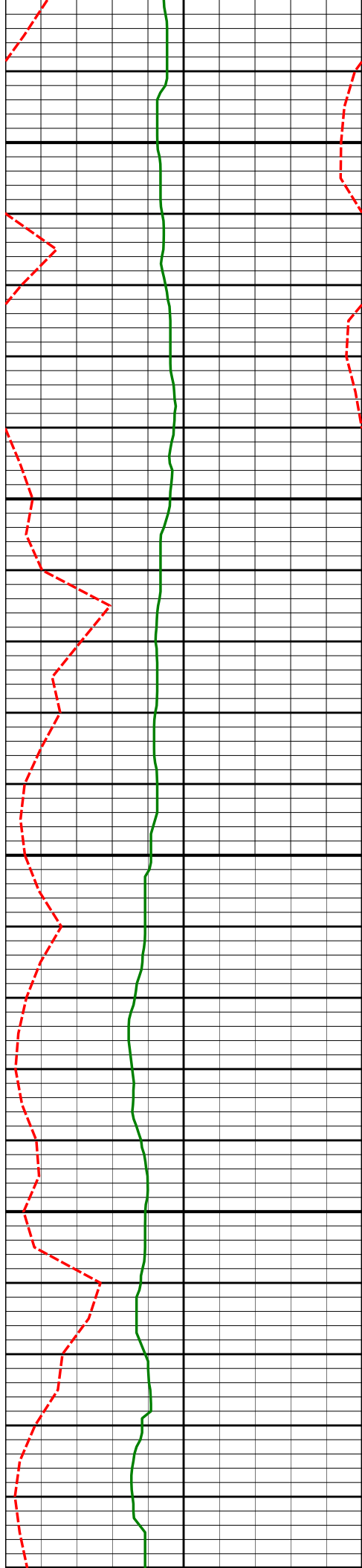
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13550

13365.00' MD 90.16° INC 179.67° AZI
7926.12' TVD 3245.46' VS 1.59DLS

13459.00' MD 89.98° INC 179.89° AZI
7926.00' TVD 3339.29' VS 0.30DLS

13554.00' MD 90.12° INC 179.58° AZI
7925.91' TVD 3434.11' VS 0.36DLS



13600

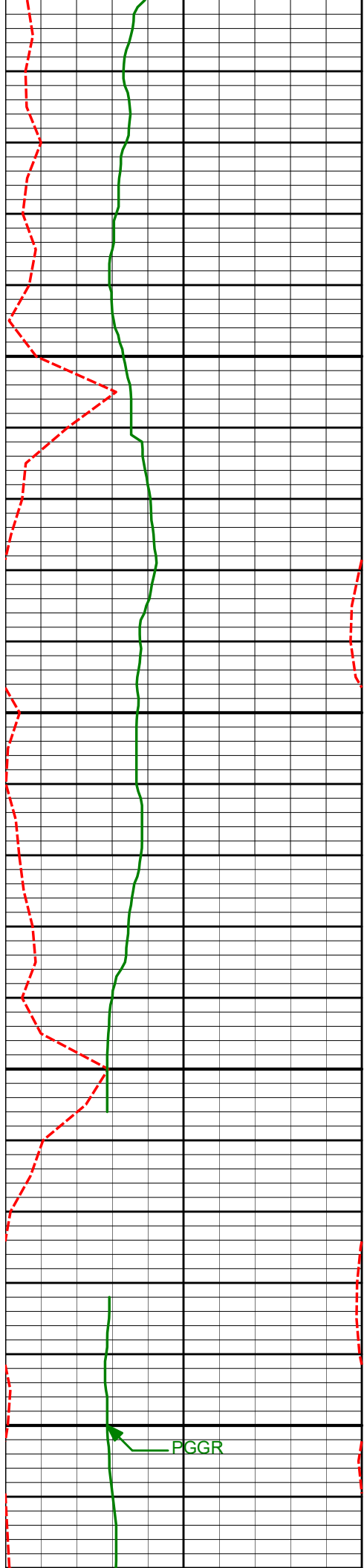
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13700

13750

13800

13649.00' MD 89.95° INC 179.86° AZI
7925.86' TVD 3528.93' VS 0.35DLS



13800

13850

13900

13950

14000

13839.00' MD 90.15° INC 180.70° AZI
7925.69' TVD 3718.68' VS 0.45DLS

PGGR



14050

14100

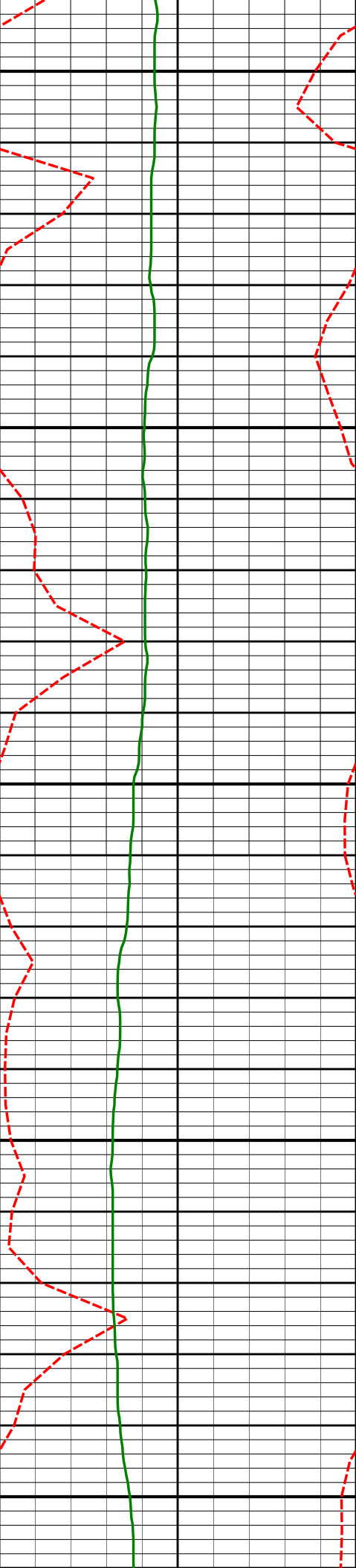
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14200

14029.00' MD 90.37° INC 179.89° AZI
7924.82' TVD 3908.43' VS 0.44DLS

14124.00' MD 90.21° INC 178.83° AZI
7924.34' TVD 4003.21' VS 1.13DLS

14218.00' MD 89.85° INC 179.21° AZI
7924.29' TVD 4096.96' VS 0.56DLS



14250

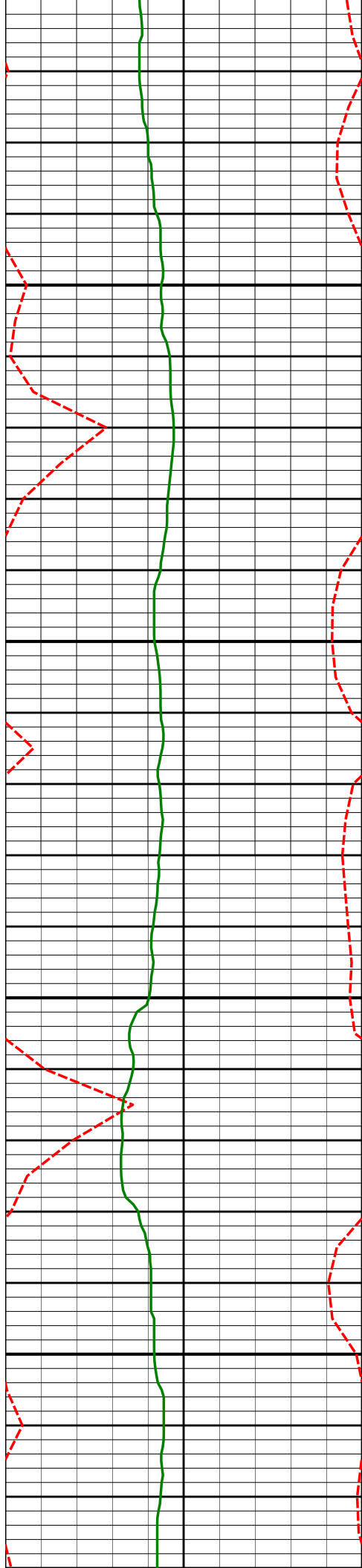
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14350

14400

14450

14314.00' MD 90.19° INC 178.54° AZI
7924.25' TVD 4192.68' VS 0.78DLS



14500

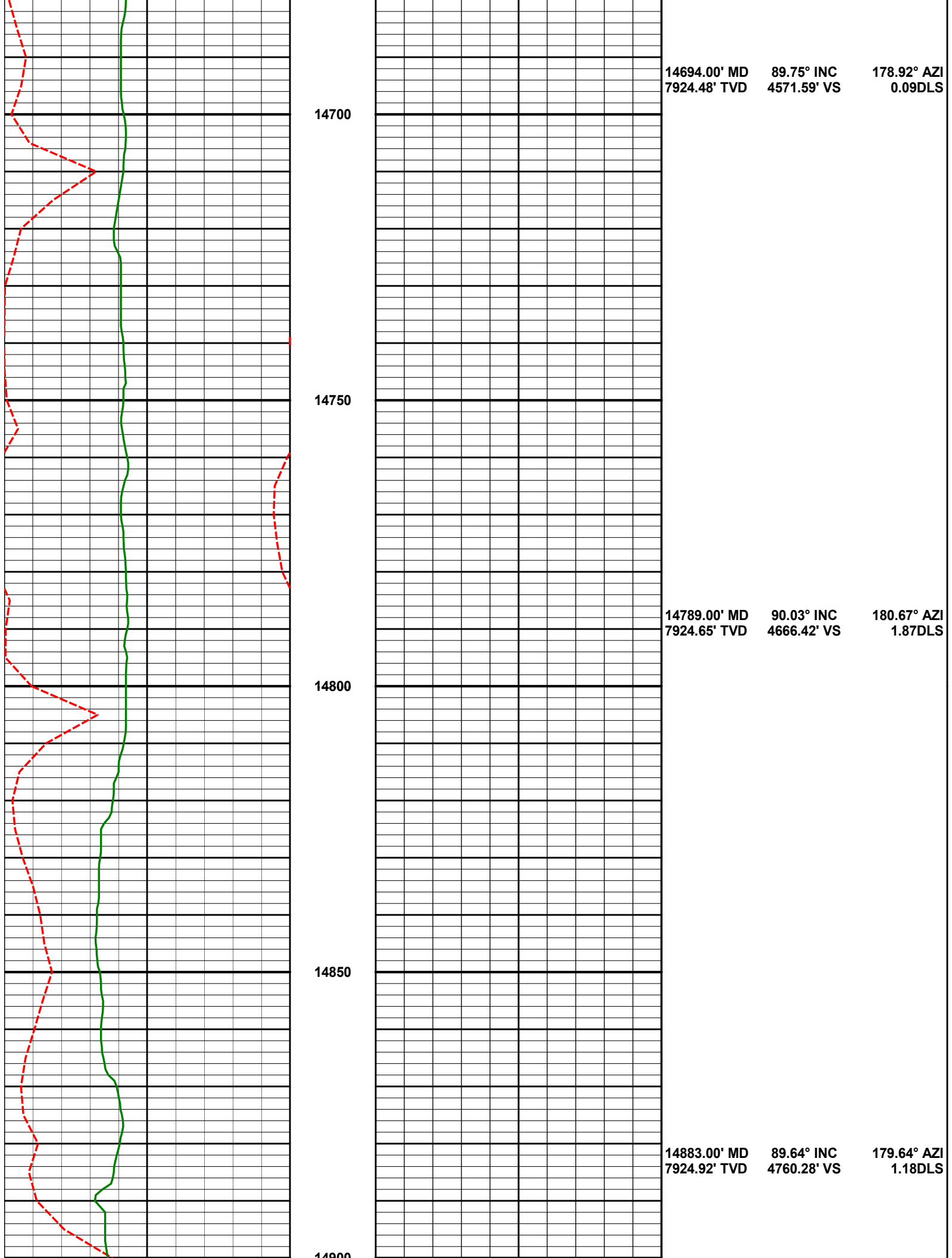
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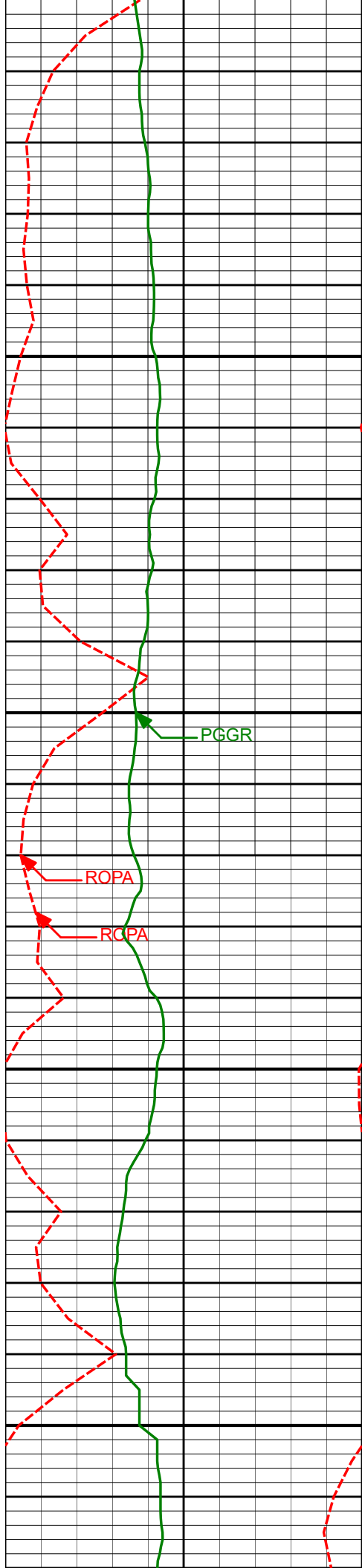
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14650

14504.00' MD	89.98° INC	179.10° AZI
7923.97' TVD	4382.11' VS	0.31DLS

14599.00' MD	89.83° INC	178.96° AZI
7924.13' TVD	4476.86' VS	0.21DLS





14900

14950

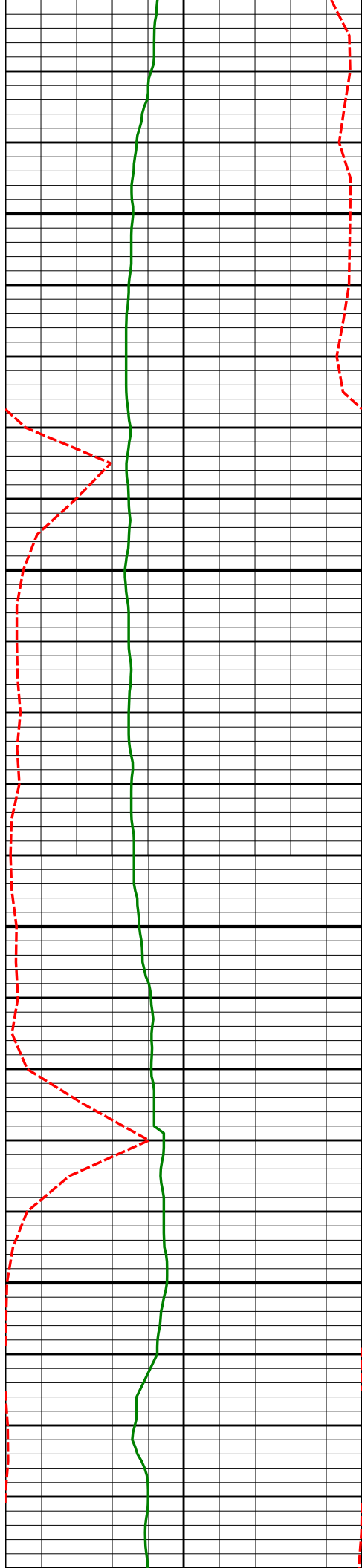
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14977.00' MD 89.81° INC 180.09° AZI
7925.36' TVD 4854.12' VS 0.52DLS

15072.00' MD 89.82° INC 179.52° AZI
7925.66' TVD 4948.95' VS 0.60DLS



15150

15200

15250

15300

15168.00' MD 89.87° INC 180.06° AZI
7925.92' TVD 5044.77' VS 0.57DLS

15262.00' MD 89.85° INC 180.56° AZI
7926.16' TVD 5138.65' VS 0.53DLS



15350

15400

15450

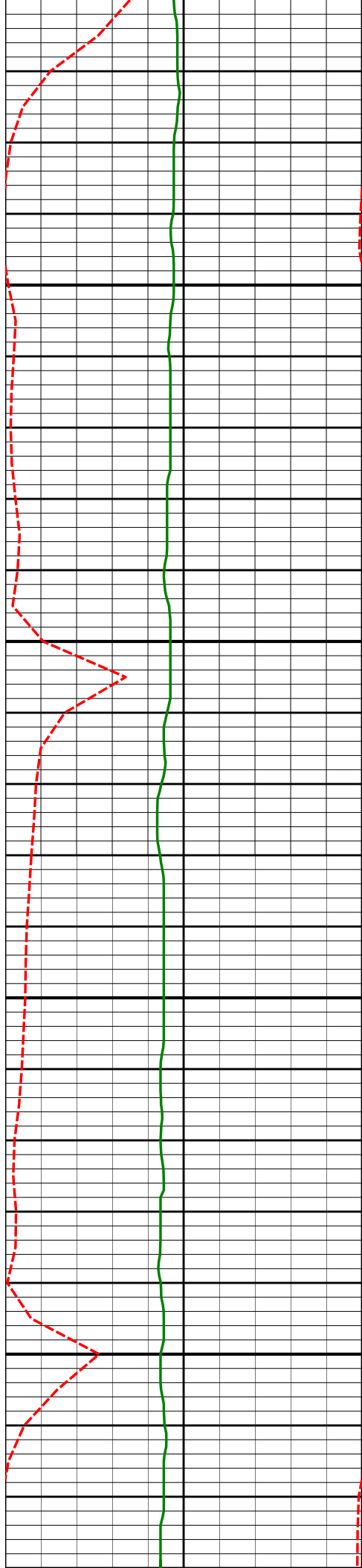
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15356.00' MD 90.24° INC 180.12° AZI
7926.09' TVD 5232.53' VS 0.62DLS

15451.00' MD 89.83° INC 179.64° AZI
7926.03' TVD 5327.37' VS 0.67DLS

15545.00' MD 89.83° INC 179.69° AZI
7926.31' TVD 5421.19' VS 0.05DLS



15600

15650

15700

15750

15639.00' MD 89.85° INC 180.01° AZI
7926.57' TVD 5515.02' VS 0.35DLS

15734.00' MD 89.58° INC 179.31° AZI
7927.04' TVD 5609.84' VS 0.79DLS



15800

15850

15900

15950

16000

15828.00' MD
7927.56' TVD

89.79° INC
5703.66' VS

180.20° AZI
0.97DLS

15923.00' MD
7927.74' TVD

89.99° INC
5798.55' VS

180.63° AZI
0.50DLS



16000

16050

16100

16150

16200

16018.00' MD 89.95° INC 180.33° AZI
7927.79' TVD 5893.44' VS 0.32DLS

16110.00' MD 90.07° INC 180.12° AZI
7927.77' TVD 5985.31' VS 0.26DLS

16199.00' MD 90.00° INC 179.44° AZI
7927.71' TVD 6074.15' VS 0.77DLS



16250

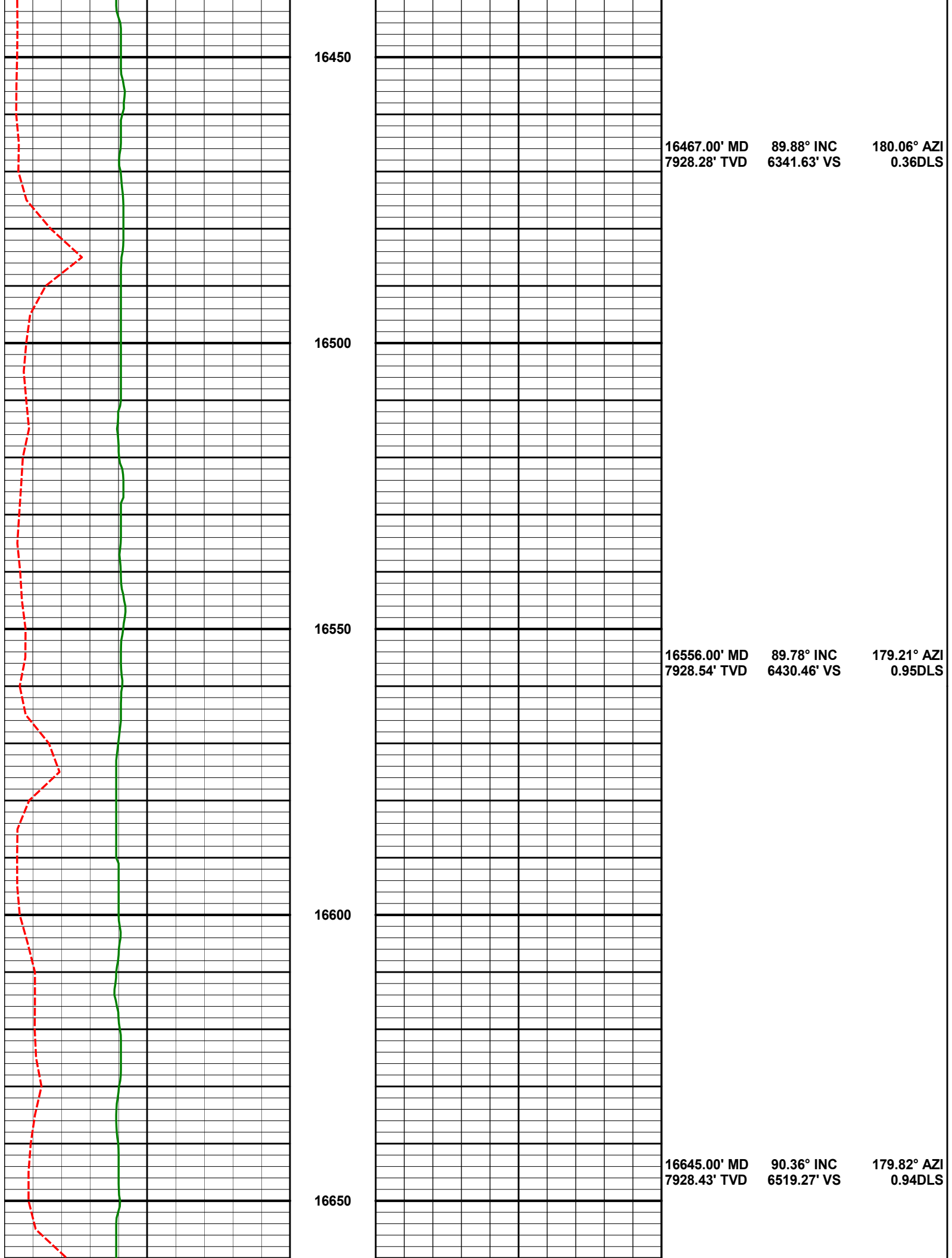
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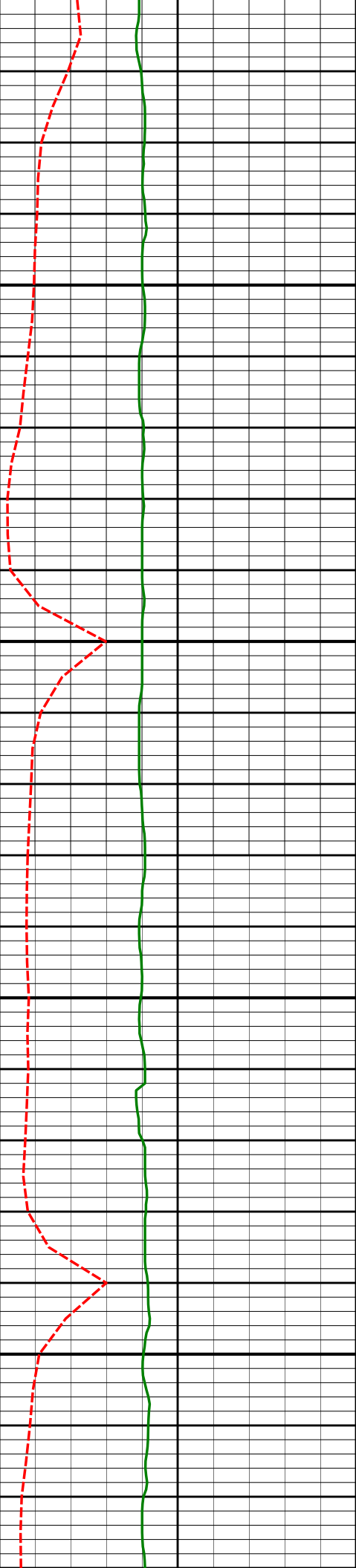
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16400

16288.00' MD 89.86° INC 179.55° AZI
7927.82' TVD 6162.96' VS 0.20DLS

16377.00' MD 89.83° INC 179.74° AZI
7928.06' TVD 6251.78' VS 0.21DLS





16700

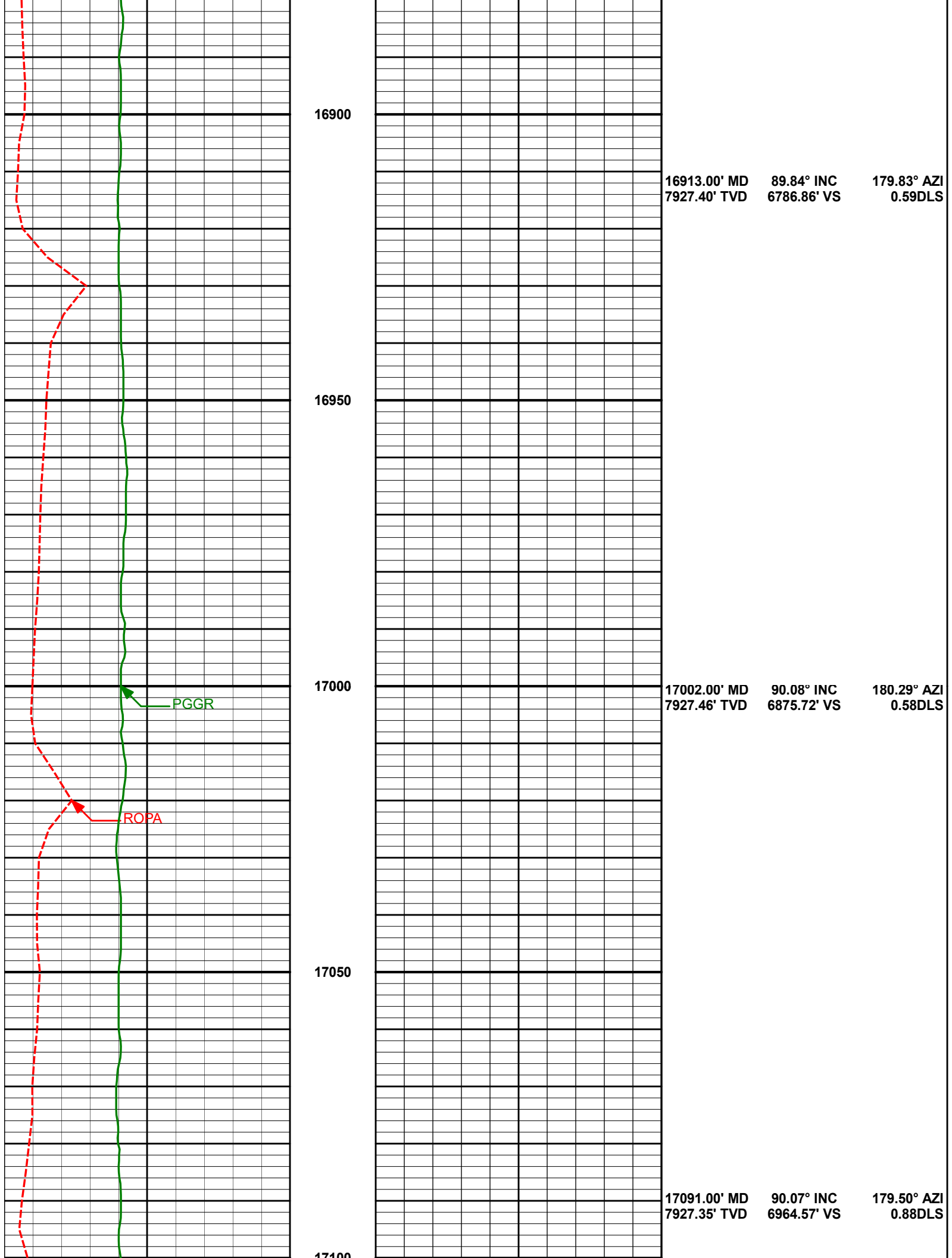
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16800

16850

16734.00' MD 90.26° INC 180.84° AZI
7927.95' TVD 6608.15' VS 1.15DLS

16823.00' MD 90.31° INC 179.59° AZI
7927.51' TVD 6697.03' VS 1.41DLS





17100

17150

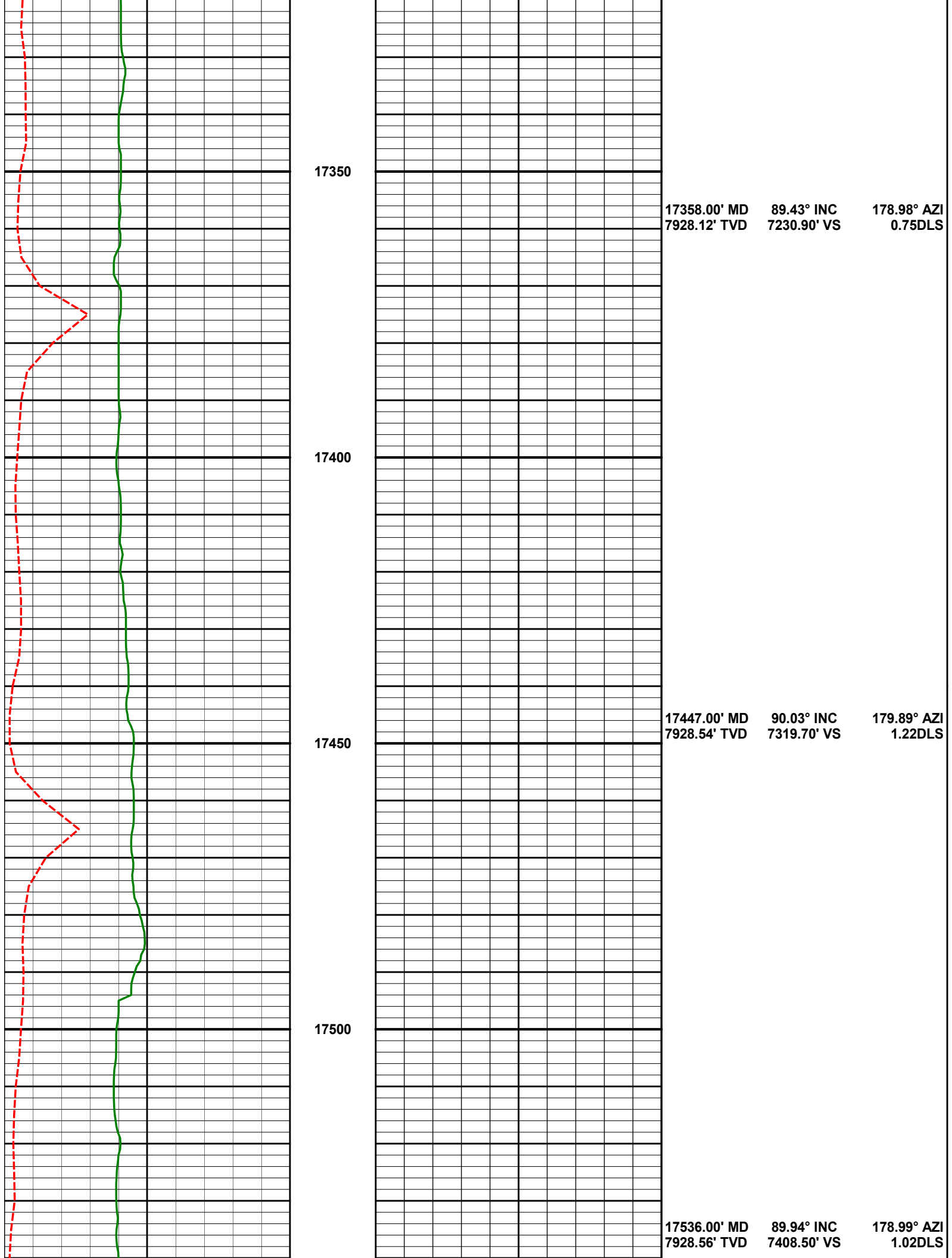
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17180.00' MD	89.79° INC	178.92° AZI
7927.46' TVD	7053.35' VS	0.73DLS

17269.00' MD	89.96° INC	179.38° AZI
7927.65' TVD	7142.12' VS	0.55DLS





17550

17600

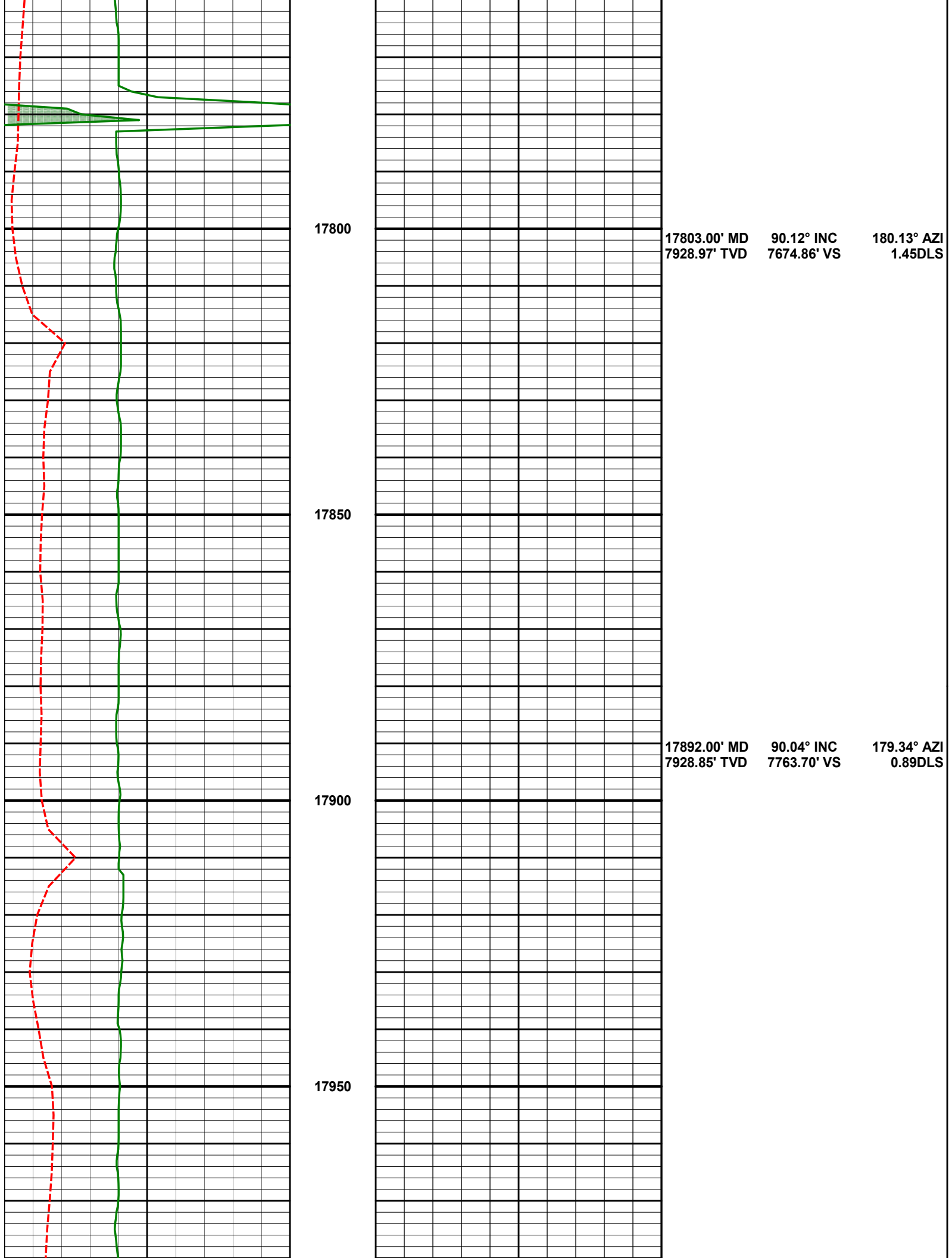
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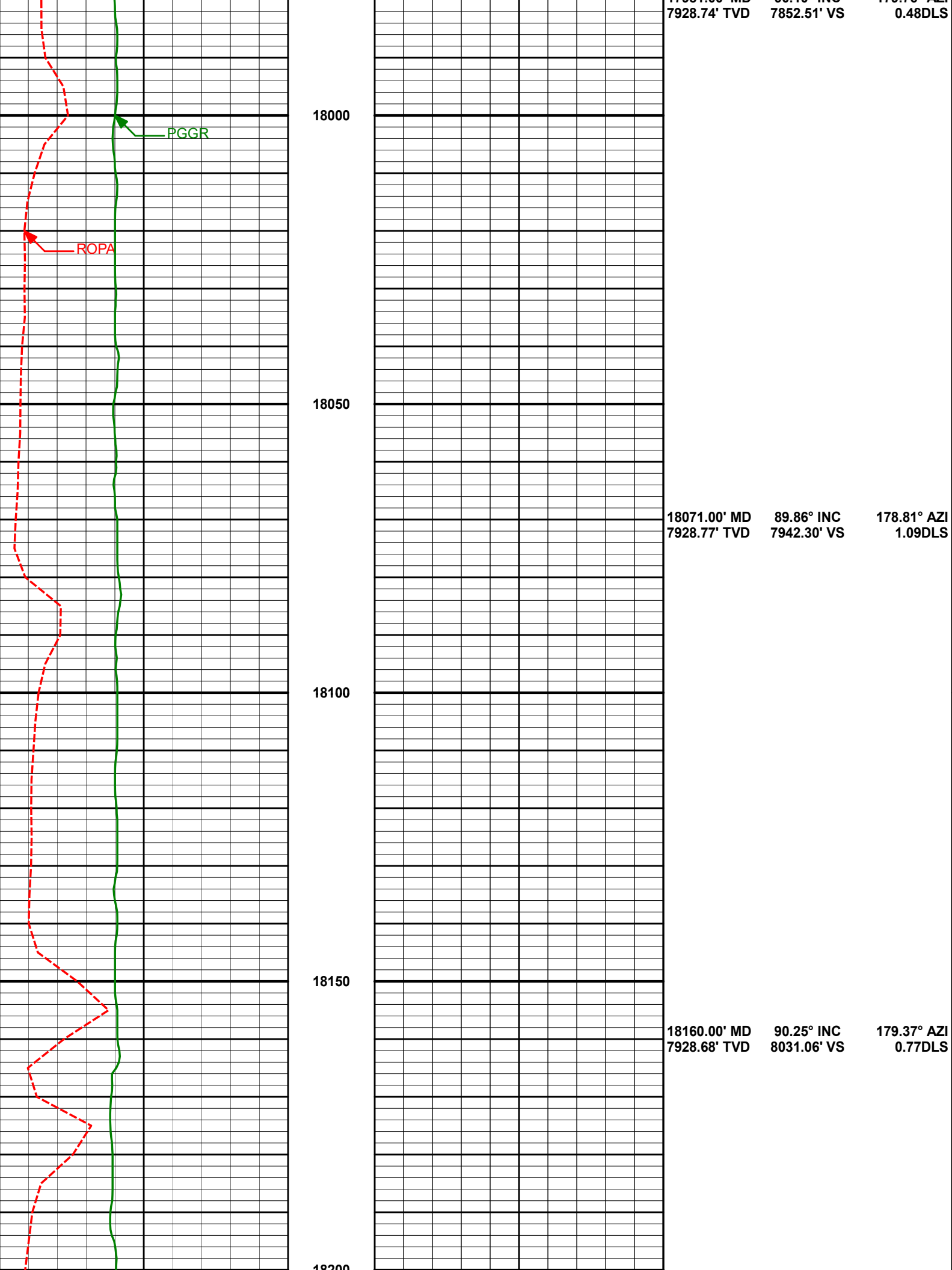
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17750

17625.00' MD 89.92° INC 179.38° AZI
7928.67' TVD 7497.28' VS 0.44DLS

17714.00' MD 89.79° INC 178.88° AZI
7928.89' TVD 7586.05' VS 0.58DLS







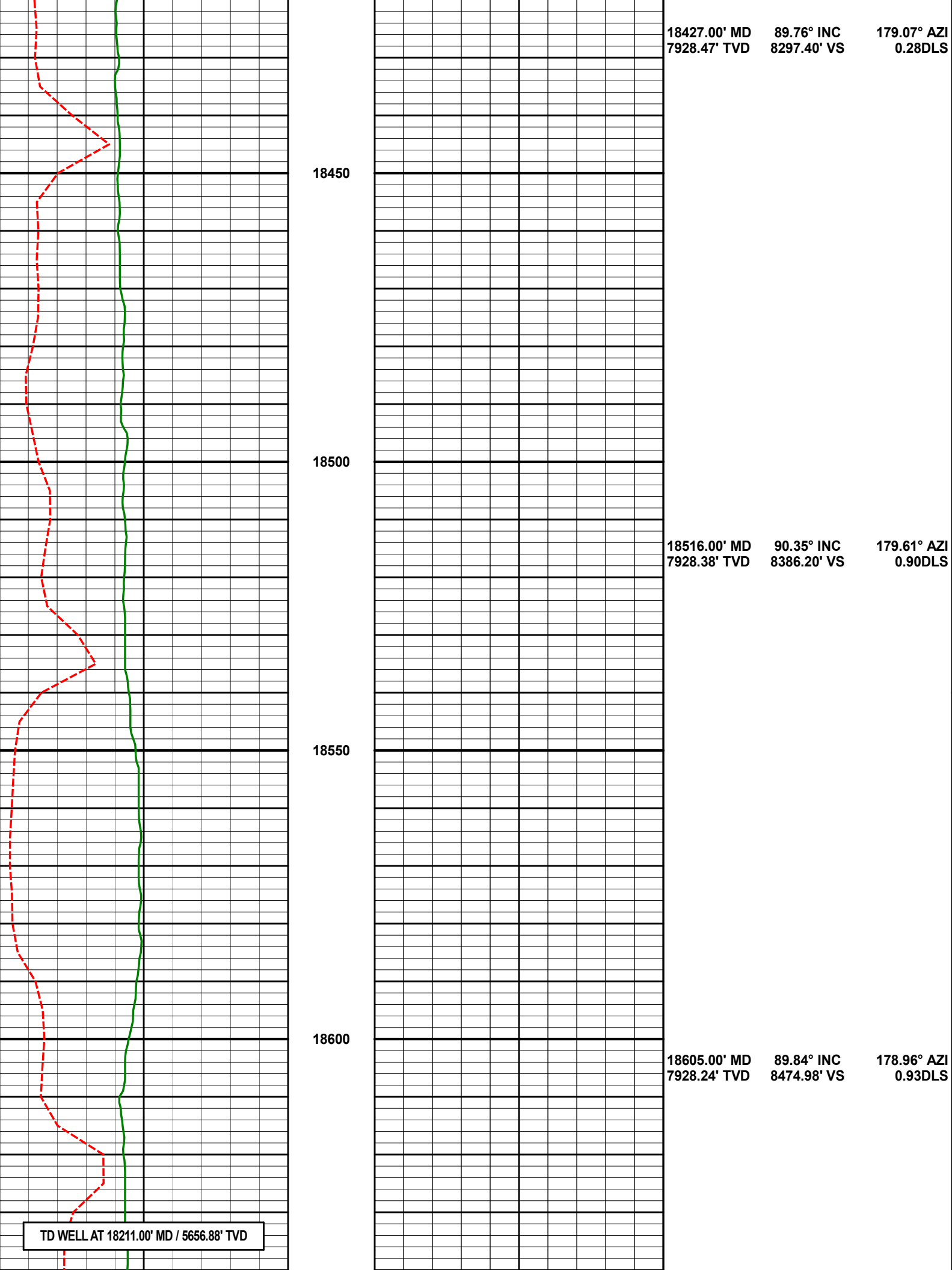
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18300

18350

18400

18338.00' MD 90.01° INC 179.11° AZI
7928.29' TVD 8208.63' VS 0.20DLS



18427.00' MD 89.76° INC 179.07° AZI
7928.47' TVD 8297.40' VS 0.28DLS

18450

18500

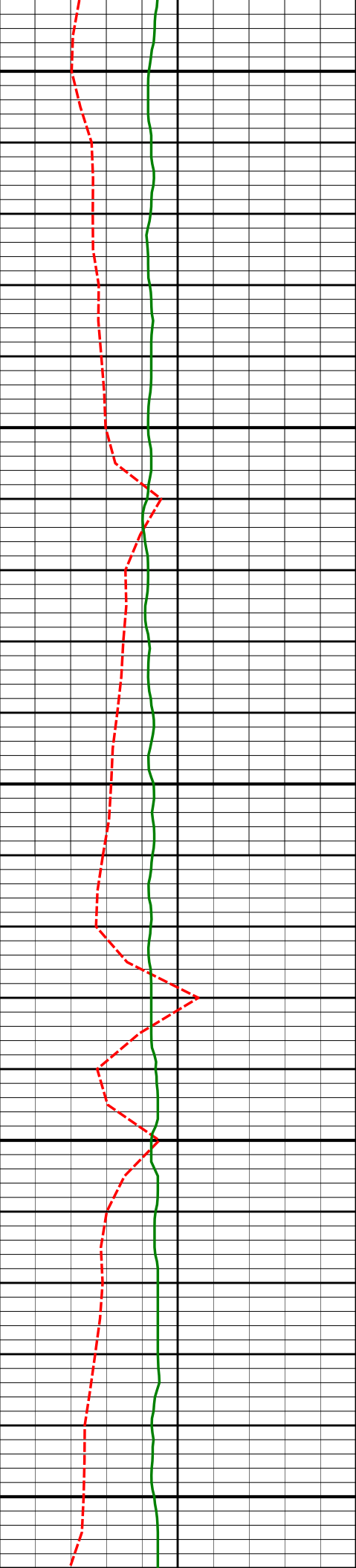
18516.00' MD 90.35° INC 179.61° AZI
7928.38' TVD 8386.20' VS 0.90DLS

18550

18600

18605.00' MD 89.84° INC 178.96° AZI
7928.24' TVD 8474.98' VS 0.93DLS

TD WELL AT 18211.00' MD / 5656.88' TVD



18650

18700

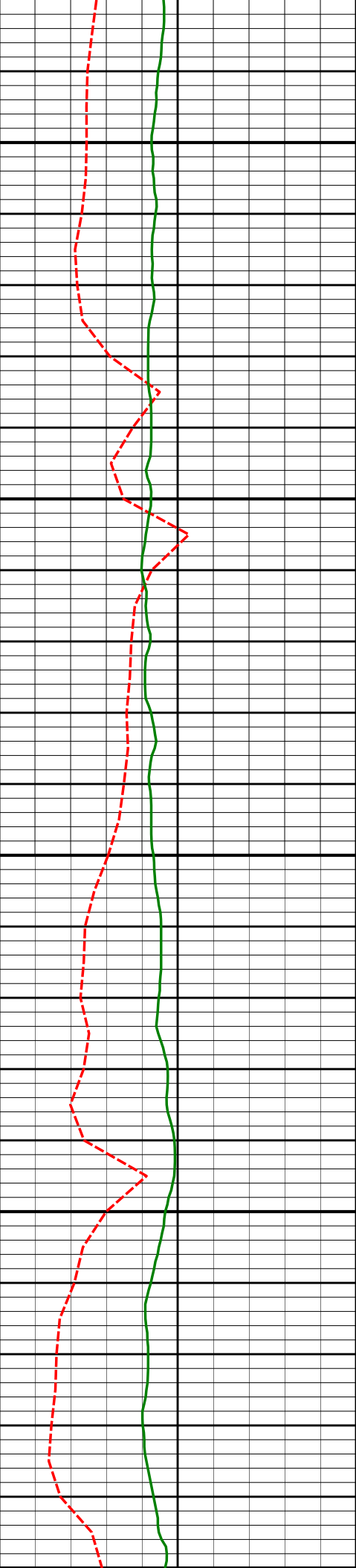
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18800

18850

18694.00' MD 89.96° INC 179.22° AZI
7928.40' TVD 8563.75' VS 0.32DLS

18783.00' MD 89.88° INC 179.33° AZI
7928.52' TVD 8652.54' VS 0.15DLS



19100

19150

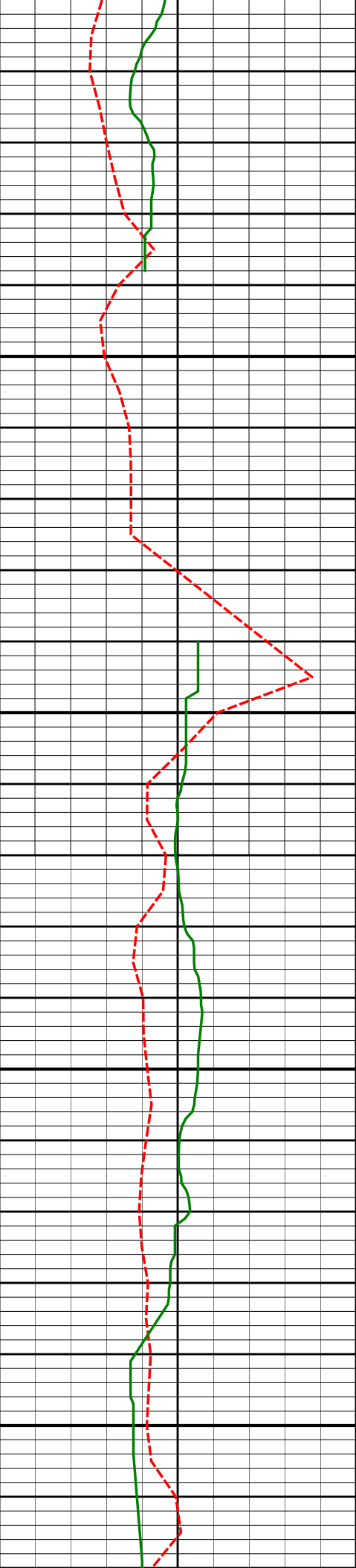
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19250

19300

19139.00' MD 90.25° INC 179.47° AZI
7927.98' TVD 9007.79' VS 0.30DLS

19228.00' MD 90.09° INC 179.32° AZI
7927.71' TVD 9096.59' VS 0.24DLS



19300

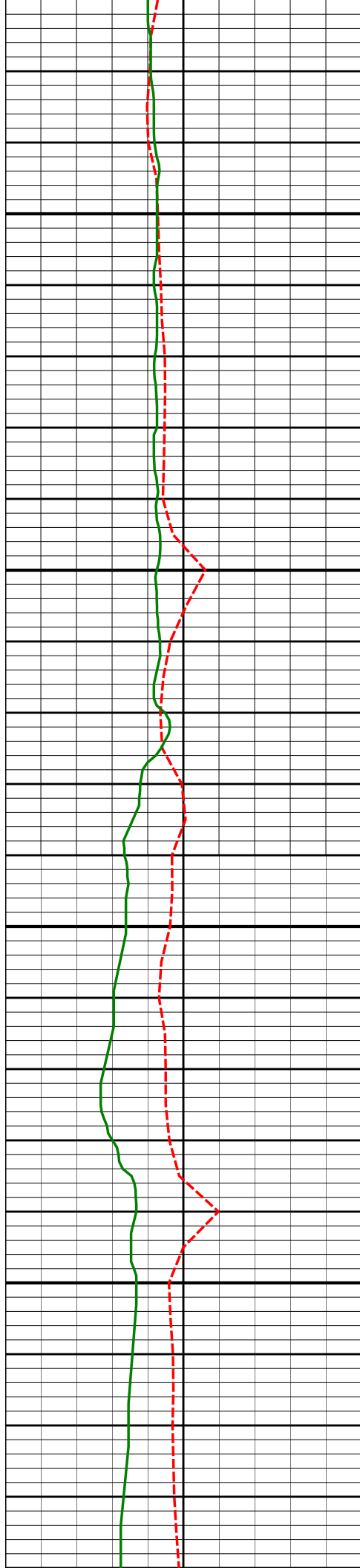
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19400

19450

19500

19317.00' MD	90.11° INC	179.95° AZI
7927.55' TVD	9185.42' VS	0.70DLS
19406.00' MD	90.24° INC	180.36° AZI
7927.28' TVD	9274.29' VS	0.49DLS
19495.00' MD	90.03° INC	179.74° AZI
7927.07' TVD	9363.15' VS	0.74DLS



19550

19600

19650

19700

19584.00' MD 90.08° INC 180.27° AZI
7926.98' TVD 9452.01' VS 0.59DLS



19750

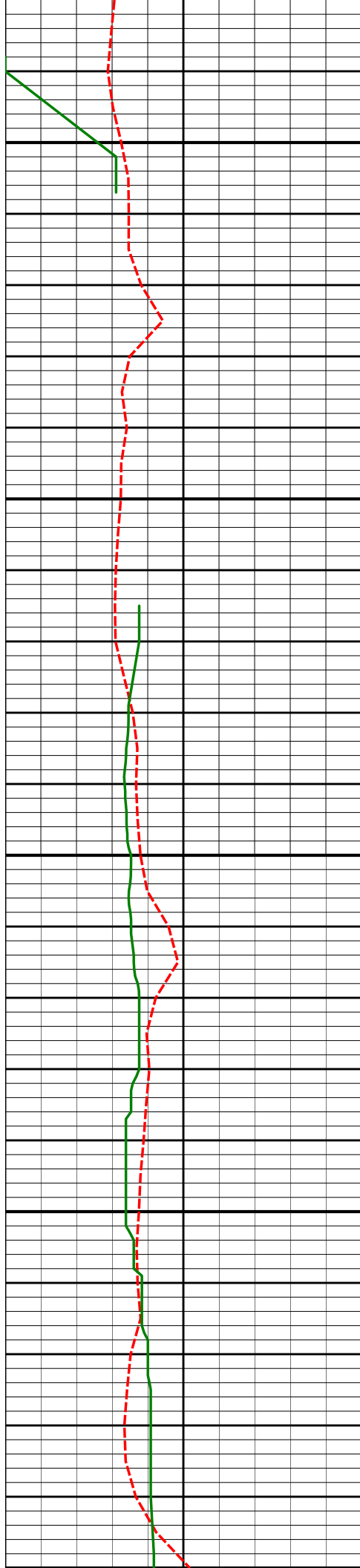
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19850

19900

19950

19852.00' MD	89.89° INC	180.52° AZI
7927.04' TVD	9719.68' VS	0.12DLS



20200

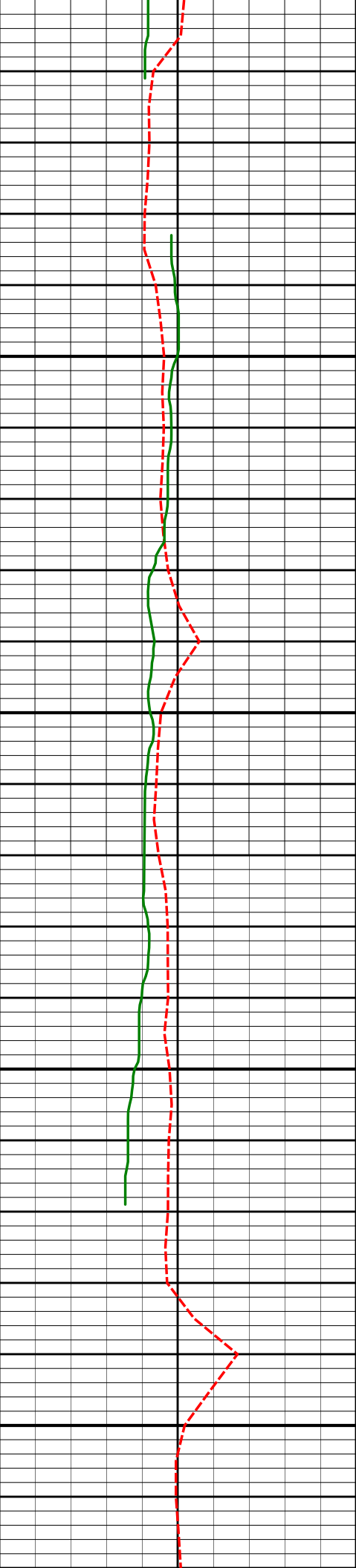
20250

20300

20350

20400

20386.00' MD	90.31° INC	180.43° AZI
7926.89' TVD	10253.17' VS	0.21DLS



20400

20450

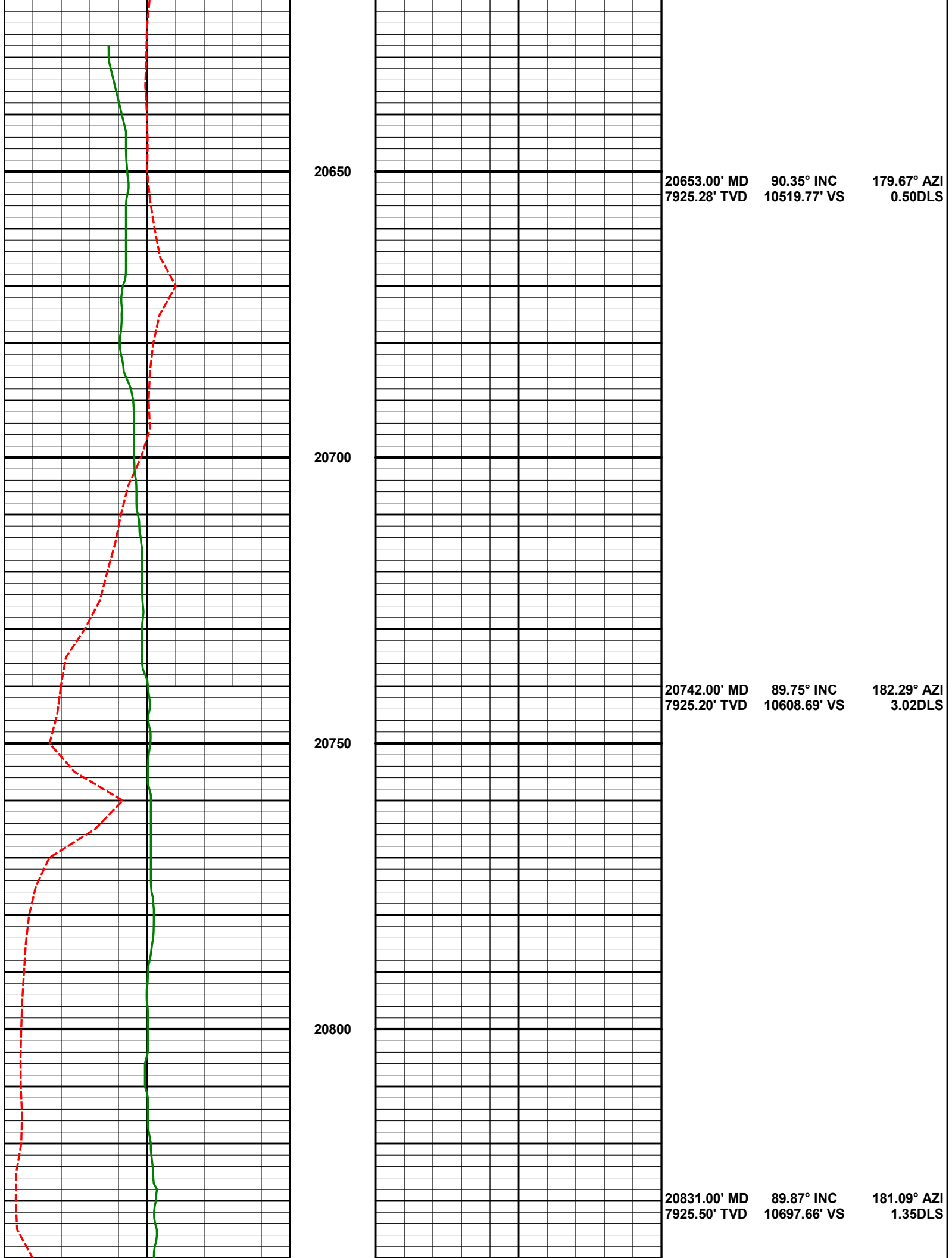
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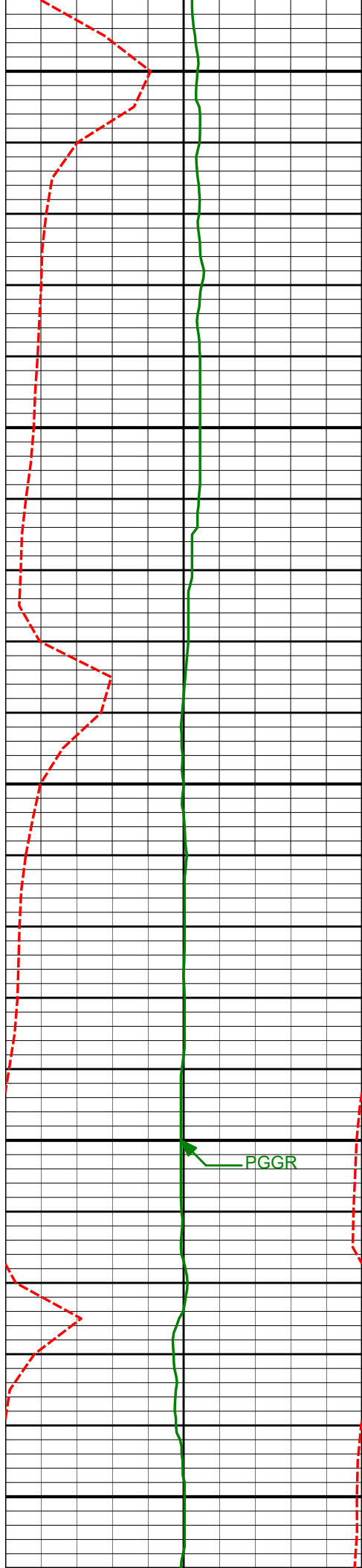
20550

20600

20475.00' MD 90.29° INC 180.19° AZI
7926.43' TVD 10342.05' VS 0.26DLS

20564.00' MD 90.42° INC 180.11° AZI
7925.88' TVD 10430.92' VS 0.18DLS





20850

20900

20950

21000

21050

PGGR

20920.00' MD	90.19° INC	180.92° AZI
7925.45' TVD	10786.59' VS	0.41DLS

21009.00' MD	89.92° INC	178.86° AZI
7925.37' TVD	10875.44' VS	2.34DLS



21100

21150

21200

21250

21098.00' MD 89.91° INC 179.17° AZI
7925.50' TVD 10964.20' VS 0.35DLS

21187.00' MD 89.96° INC 178.96° AZI
7925.60' TVD 11052.96' VS 0.24DLS

21276.00' MD 89.75° INC 181.16° AZI
7925.83' TVD 11141.82' VS 2.48DLS



21300

21350

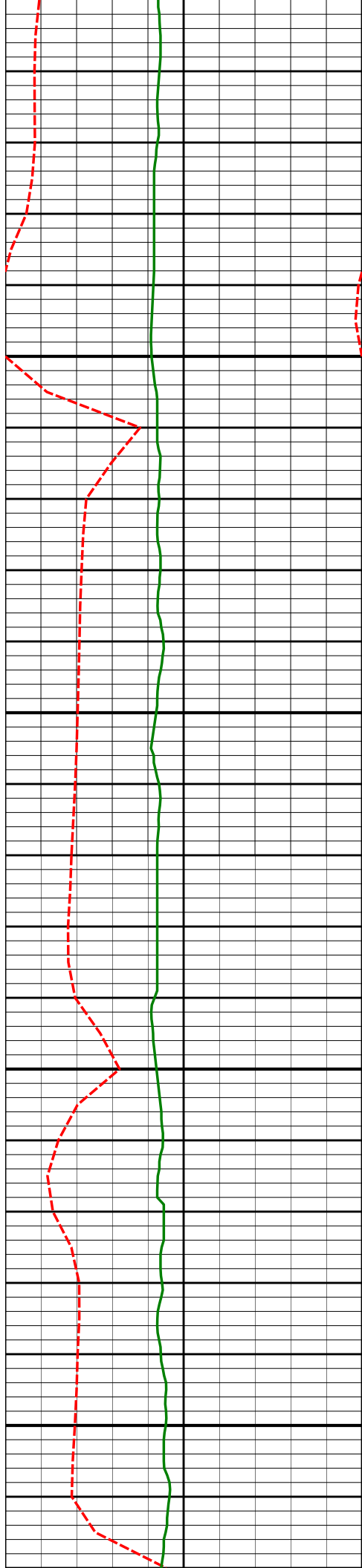
21400

21450

21500

21365.00' MD 89.89° INC 180.70° AZI
7926.10' TVD 11230.75' VS 0.54DLS

21454.00' MD 89.88° INC 180.49° AZI
7926.28' TVD 11319.65' VS 0.23DLS



21500

21550

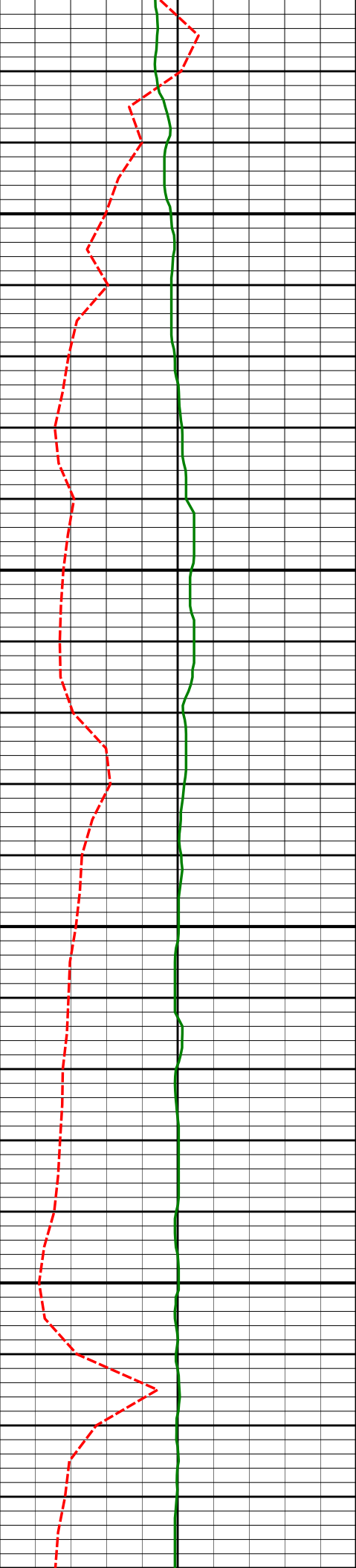
21600

21650

21700

21543.00' MD 89.88° INC 179.18° AZI
7926.46' TVD 11408.49' VS 1.48DLS

21632.00' MD 89.90° INC 179.48° AZI
7926.62' TVD 11497.29' VS 0.34DLS



21750

21800

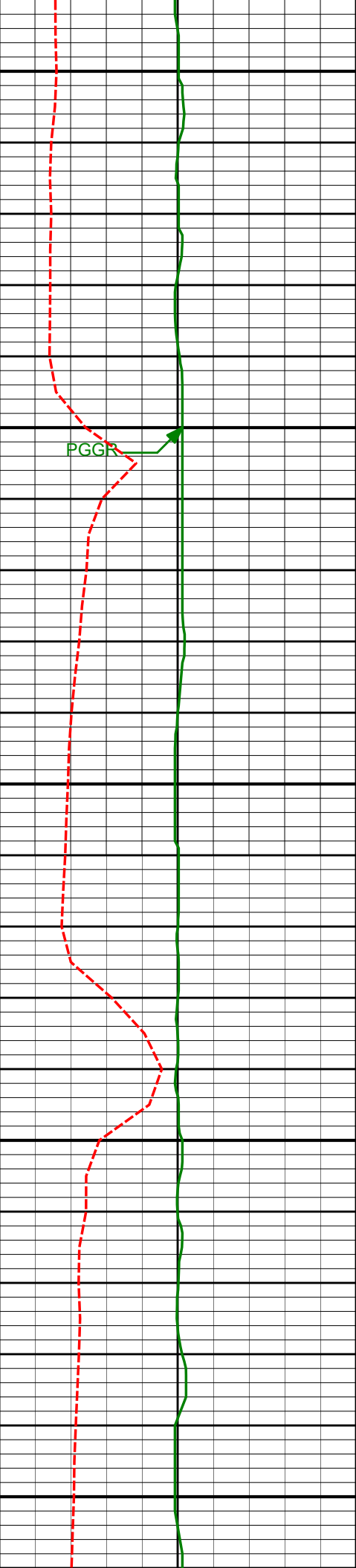
21850

21900

21721.00' MD 89.80° INC 179.17° AZI
7926.64' TVD 11586.07' VS 0.49DLS

21809.00' MD 89.85° INC 180.26° AZI
7926.70' TVD 11673.90' VS 1.38DLS

21898.00' MD 89.97° INC 179.17° AZI
7926.84' TVD 11762.73' VS 1.24DLS



21950

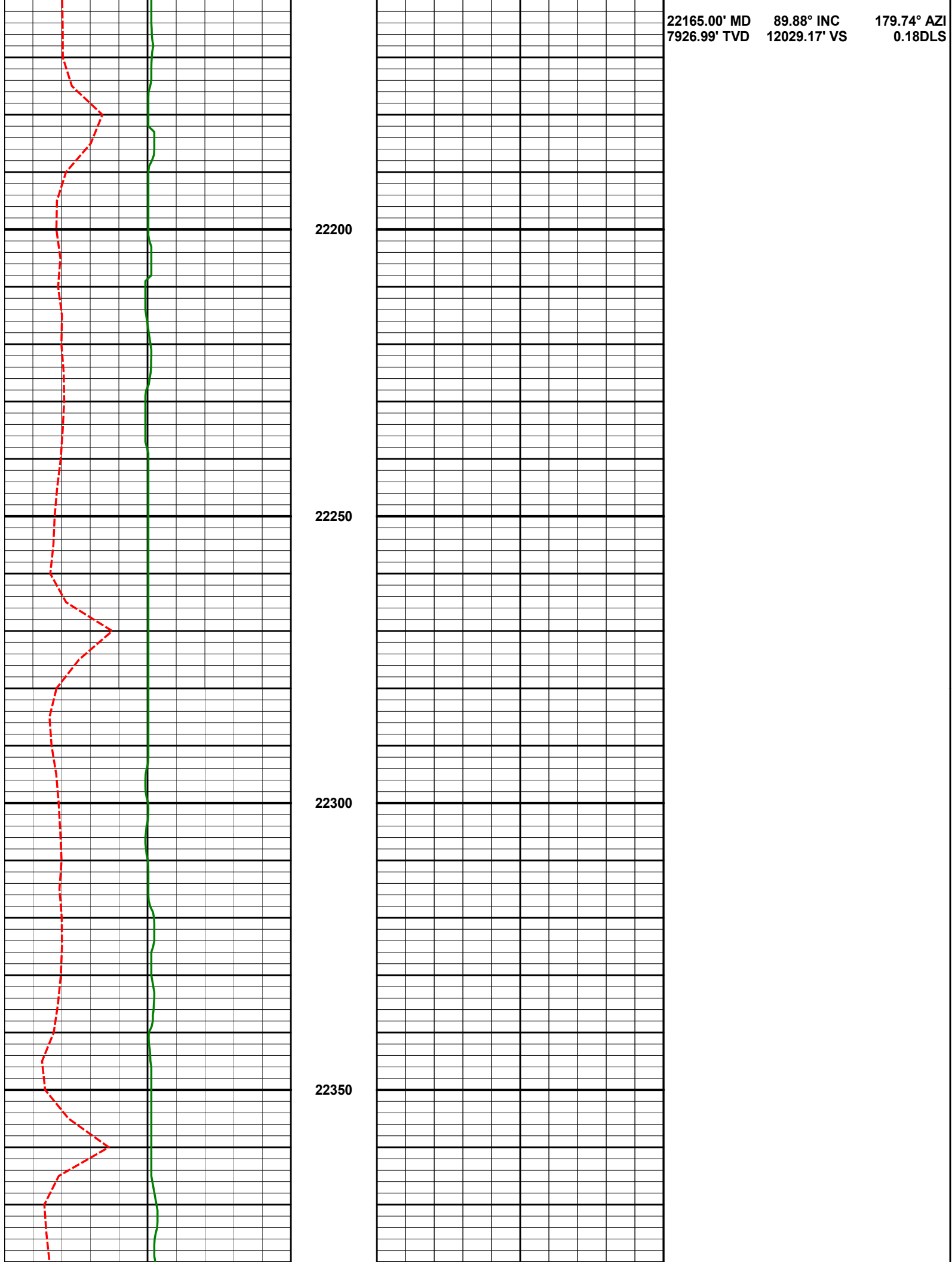
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22050

22100

22150

21987.00' MD 90.03° INC 179.46° AZI
7926.84' TVD 11851.53' VS 0.34DLS





22400

22450

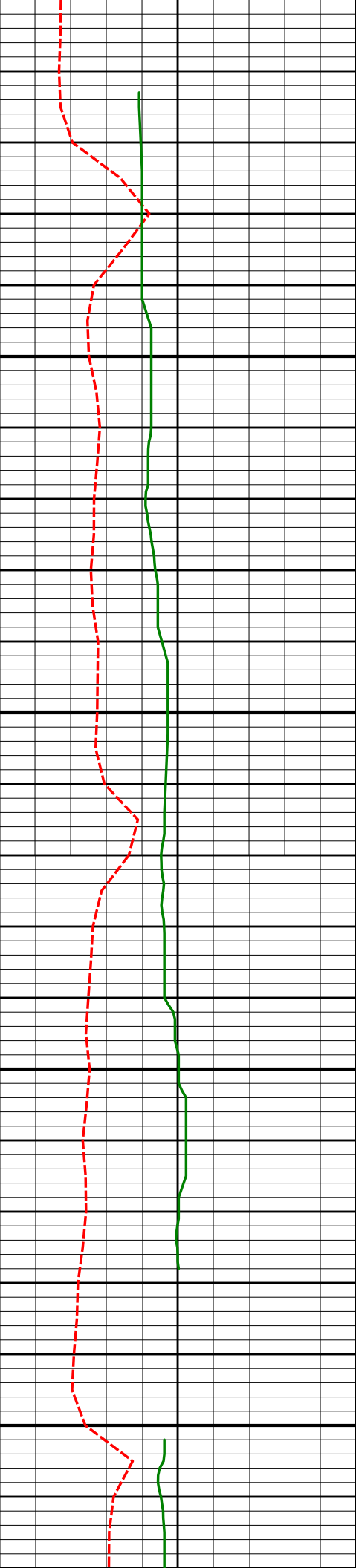
22500

22550

22600

22433.00' MD 89.88° INC 180.61° AZI
7927.55' TVD 12296.78' VS 0.33DLS

22522.00' MD 89.78° INC 180.32° AZI
7927.81' TVD 12385.68' VS 0.35DLS



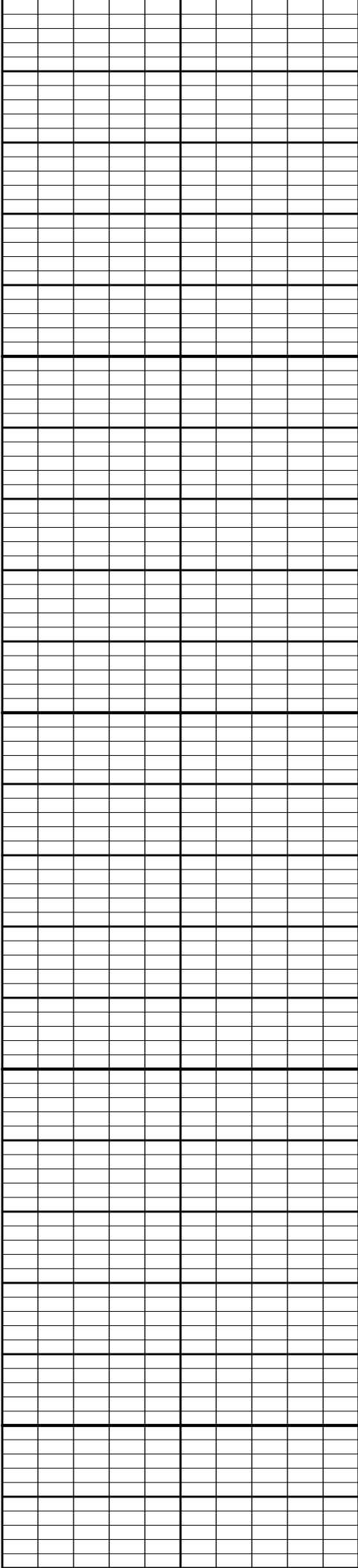
22600

22650

22700

22750

22800



22610.00' MD 90.01° INC 179.65° AZI
7927.97' TVD 12473.54' VS 0.81DLS

22700.00' MD 89.92° INC 180.25° AZI
7928.02' TVD 12563.39' VS 0.67DLS

22789.00' MD 89.94° INC 179.69° AZI
7928.13' TVD 12652.25' VS 0.63DLS



22850

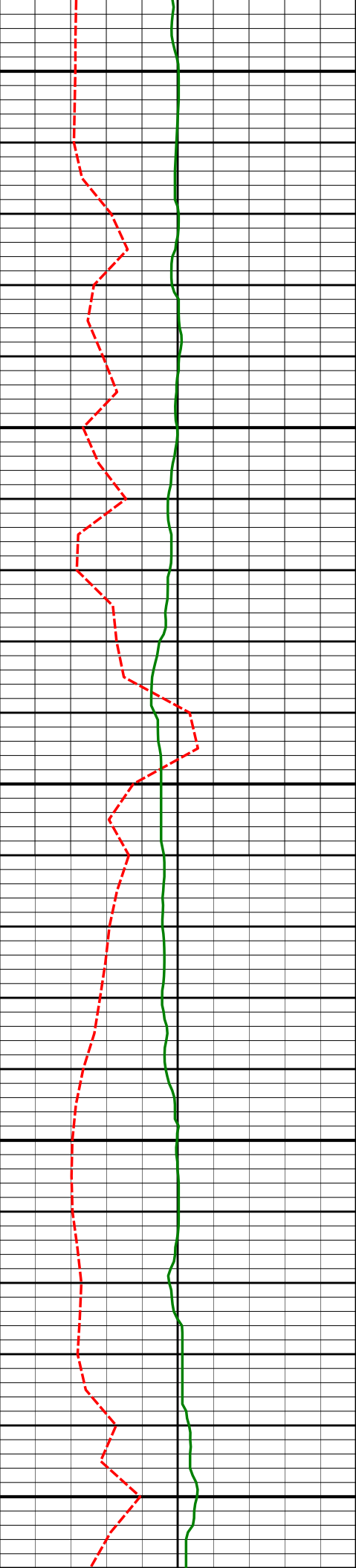
22900

22950

23000

PGGR

22967.00' MD 89.92° INC 178.50° AZI
7928.36' TVD 12829.78' VS 0.67DLS



23050

23100

23150

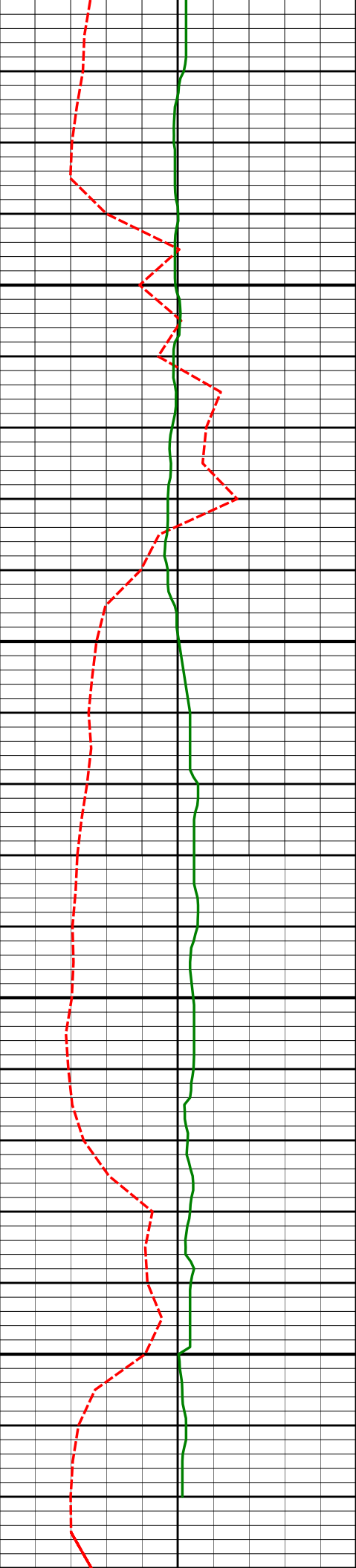
23200

23250

23056.00' MD 90.01° INC 178.16° AZI
7928.42' TVD 12918.45' VS 0.39DLS

23145.00' MD 90.01° INC 178.65° AZI
7928.41' TVD 13007.14' VS 0.54DLS

23234.00' MD 90.10° INC 178.93° AZI
7928.32' TVD 13095.87' VS 0.33DLS



23300

23350

23400

23450

23323.00' MD 90.03° INC 179.05° AZI
7928.22' TVD 13184.63' VS 0.16DLS

23412.00' MD 90.01° INC 177.90° AZI
7928.19' TVD 13273.32' VS 1.29DLS

23479.00' MD 90.01° INC 177.90° AZI
7928.18' TVD 13240.02' VS 0.00DLS

TD AT 23479' MD / 7928' TVD

23500

Rate of Penetration
ROPA
 500 feet per hr 0

500 feet per hr 0

MD
ft
1 : 240

ft

1 : 240

Temperature

STEM

0 fahrenheit 300

STEM

0	fahrenheit	300
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Surveys

Gamma Ray	
PGGR	
0	300
api	

PGGR

0	api	300
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0	api	300
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