



1 : 600 / 1 : 240

[illegible]

WELL INFORMATION

MWD Run Number	100	200	300	400	
Date run completed	25-Jan-15	27-Jan-15	28-Jan-15	30-Jan-15	
Rig Bit Number	1	2	3	4	
Bit Size (in)	13.500	8.750	8.750	8.750	
Tool Nominal OD (in)	6.750	6.750	6.750	6.800	
Log Start Depth (MD, ft)	90.00	2,258.00	6,562.00	7,000.00	
Log End Depth (MD, ft)	2,258.00	6,562.00	7,000.00	7,000.00	
Drill or Wipe	Drill	Drill	Drill	Drill	
Drill/Wipe Start Date and Time	25-Jan-15 01:15	26-Jan-15 17:15	28-Jan-15 01:45	28-Jan-15 20:15	
Drill/Wipe End Date and Time	25-Jan-15 10:45	27-Jan-15 15:30	28-Jan-15 06:45	30-Jan-15 07:19	
Min Inc (deg) @ Depth (MD, ft)	0.16 @ 518.00	0.22 @ 2,502.00	30.02 @ 6,644.00	@	
Max Inc (deg) @ Depth (MD, ft)	1.00 @ 1,439.00	19.20 @ 6,549.00	84.01 @ 6,928.00	@	
Bit TFA(in2) / Bit Type	0.90 / PDC	1.21 / PDC	1.24 / PDC	1.20 / PDC	
Flow Rate (gpm)	621.04	576.95	514.29		
Max AV (fpm) / CV (fpm) @ MWD	100.0 / 150.0	350.3 / 400.0	342.4 / 400.0	/	
Fluid Type	Native/Spud Mud	Diesel Mud Base	Diesel Mud Base	Diesel Mud Base	
Density (ppg) / Viscosity (spqt)	8.50 / 27.00	10.00 / 73.00	10.00 / 86.00	/	
Filtrate CL (ppm)	600.00	67,500.00	69,000.00		
pH / Fluid Loss (mptm)	8.70 / 92	N/A / -15	N/A / -30	N/A /	
PV (cP) / YP (lbf2)	2 / 3.00	25 / 26.00	24 / 30.00	/	
% Solids / % Sand	1.20 / 0.25	8.00 / 0	9.40 / 0	/	
% Oil / Oil:Water Ratio	N/A / N/A	52 / 58:42	53 / 61:39	/	
Rm @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	
Rmf @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	
Rmc @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	
Max Tool Temp (degF) / S	22.54 / 20M	122.22 / 20M	122.22 / 20M	/	

Max Tool Temp (degF) / Source	98.51 / PCM	163.20 / PCM	163.20 / PCM	/	
Rm @ Max Tool Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A	N/A @ N/A	
Lead MWD Engineer	Brad West	Brad West	Brad West	Brad West	
Customer Representative	Seth Mulherin	Seth Mulherin	Seth Mulherin	Jim Boyd	

SENSOR INFORMATION

Downhole Processor Information

Tool Type	PCM	PCM	PCM	PCM	
Software Version	5.93	5.93	5.93	5.93	
Sub Serial Number	246473	246473	246473	246473	
Insert Serial Number	11400880	11680783	11680783	11400880	
Date and Time Initialized	24-Jan-15 14:12	25-Jan-15 19:47	01-Jan-70 00:00	28-Jan-15 07:43	
Date and Time Read	25-Jan-15 15:41	28-Jan-15 16:39	28-Jan-15 16:46	01-Jan-70 00:00	
ECMB SW Version	N/A	N/A	N/A	N/A	

Directional Sensor Information

Tool Type	PCDC	PCDC	PCDC	PCDC	
Distance From Bit (ft)	58.00	56.00	51.00	56.00	
Software Version	6.33	6.33	6.33	6.33	
Sub Serial Number	246473	246473	246473	246473	
Sonde Serial Number	10993517	10835193	10835193	10993517	
Sensor ID Number	N/A	N/A	N/A	N/A	
Toolface Offset (deg)	350.00	43.90	85.30	5.30	

Gamma Ray Sensor Information

Tool Type	PCG	PCG	PCG	PCG	
Distance From Bit (ft)	51.19	49.33	44.73	49.04	
Recorded Sample Period (sec)	10	10	10	10	
Software Version	8.15	8.15	8.15	8.15	
Sub Serial Number	246473	246473	246473	246473	
Insert/Sonde Serial Number	11293261	11579845	11579845	11293261	

REMARKS

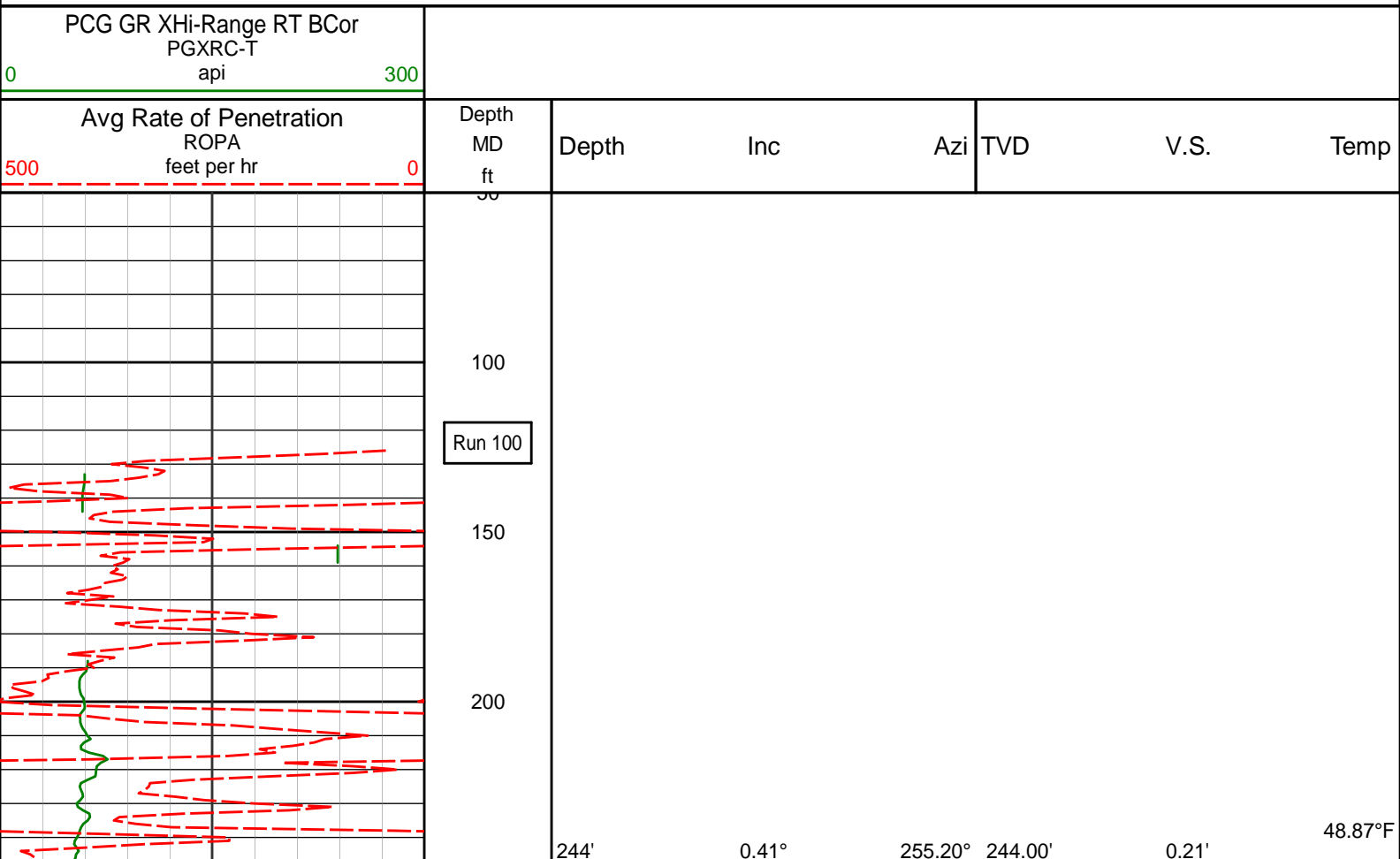
1. All depths are measured bit depths, referenced to the Driller's pipe tally and are measured from the Drill Floor, unless otherwise specified.
2. No depth corrections have been made for pipe stretch or compression.
3. Critical annual velocities are calculated using the "Power Law" model for water based fluids and the "Bingham Plastic" model for oil and synthetic based fluids.
4. All data presented is recorded data unless otherwise specified.
5. The following smoothing parameters have been applied to the data:
1: 600
PGRC (Corrected Gamma Ray):
Interval Resolution: 1.0 ft
Interval Distance: 3.0 ft
Gap Fill: 5.0 ft
ROPA (Average Rate of Penetration)
Interval Resolution: 1.0 ft
Interval Distance: 3.0 ft
Gap Fill: 5.0 ft
1: 240
PGRC (Corrected Gamma Ray):
Interval Resolution: 0.5 ft
Interval Distance: 0.6 ft
Gap Fill: 3.0 ft

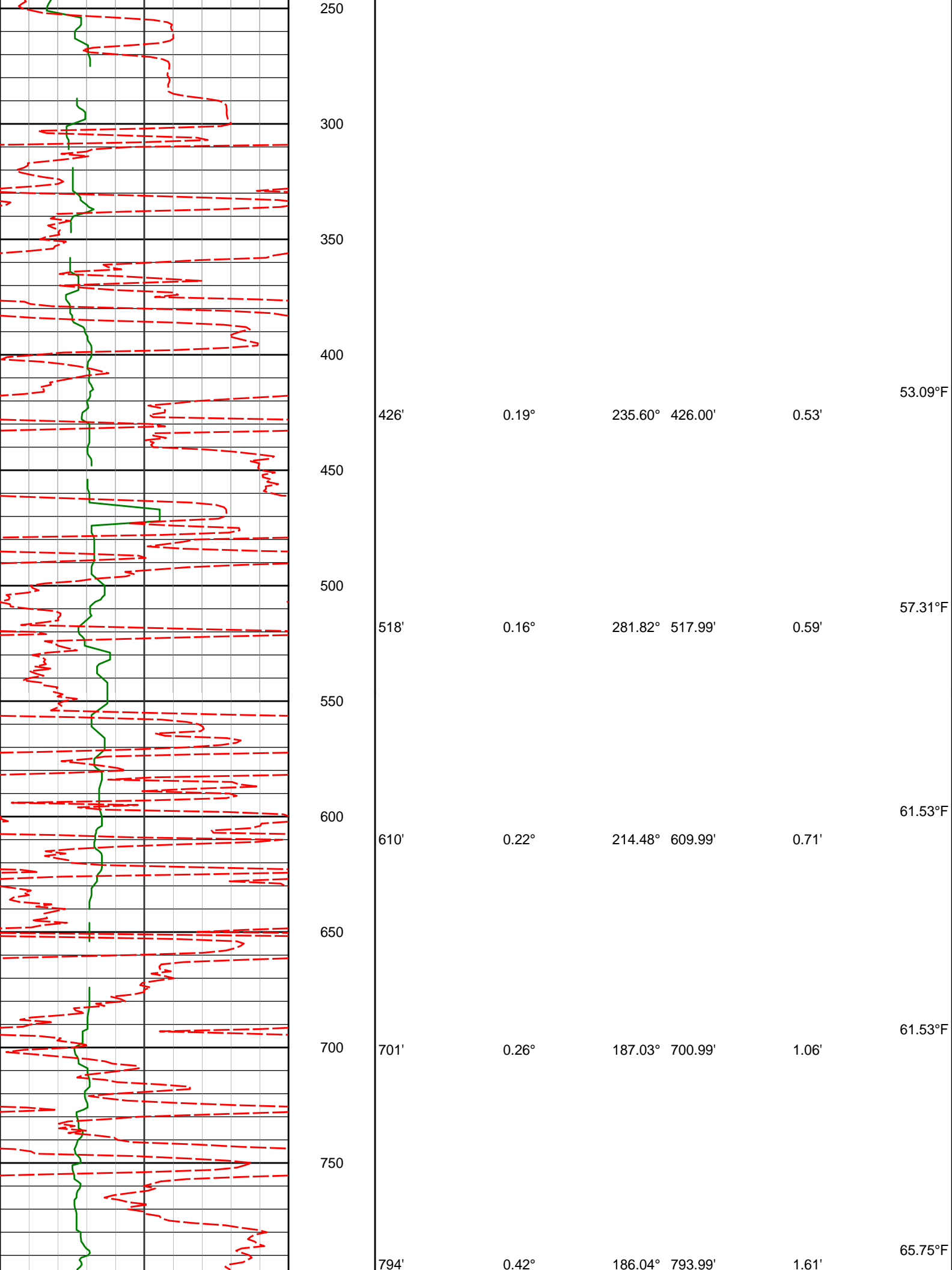
Gap Fill: 3.0 ft
ROPA (Average Rate of Penetration)
Interval Resolution: 0.5 ft
Interval Distance: 1.2 ft
Gap Fill: 3.0 ft
6. INSITE version 8.1.1

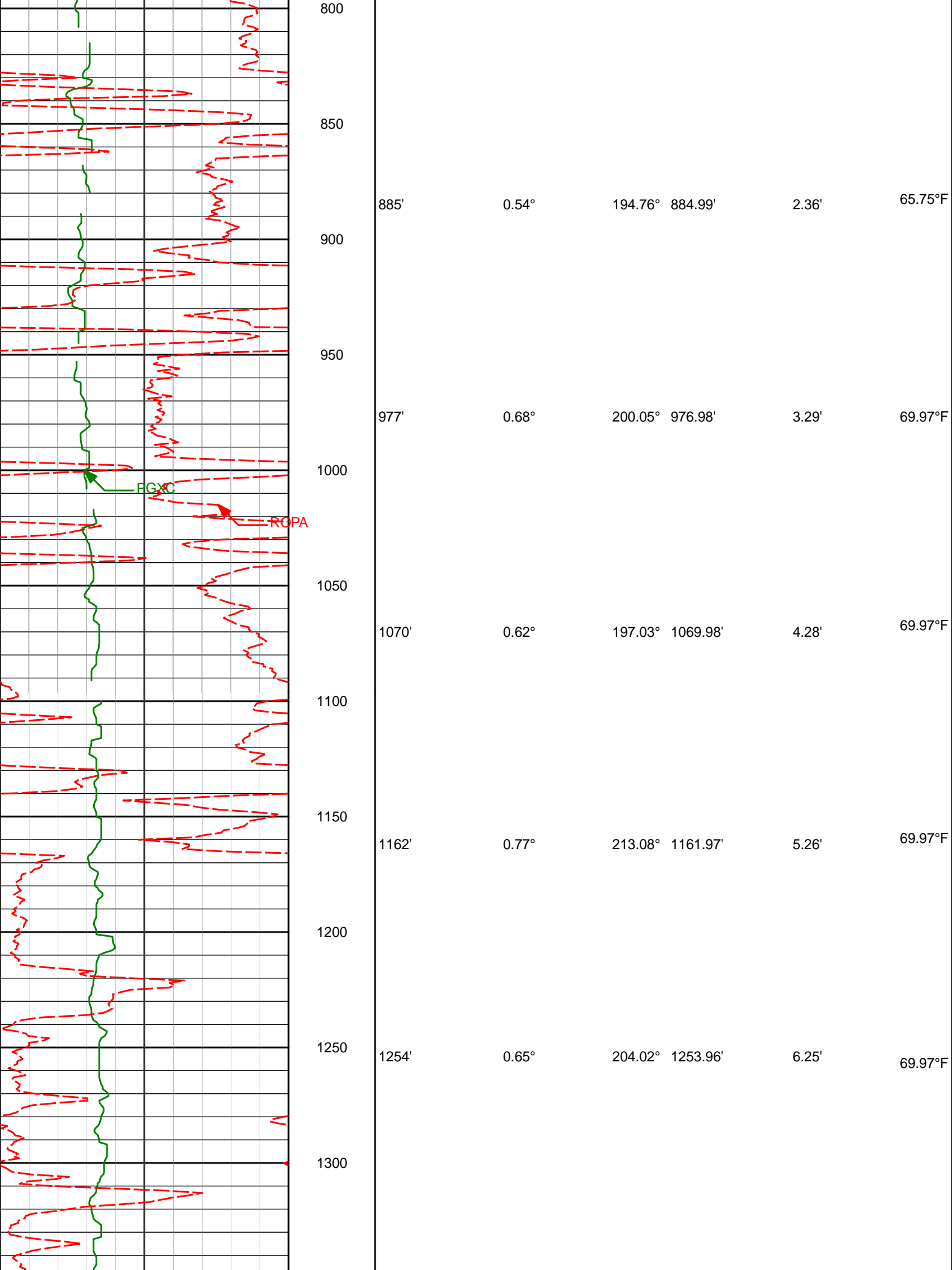
WARRANTY

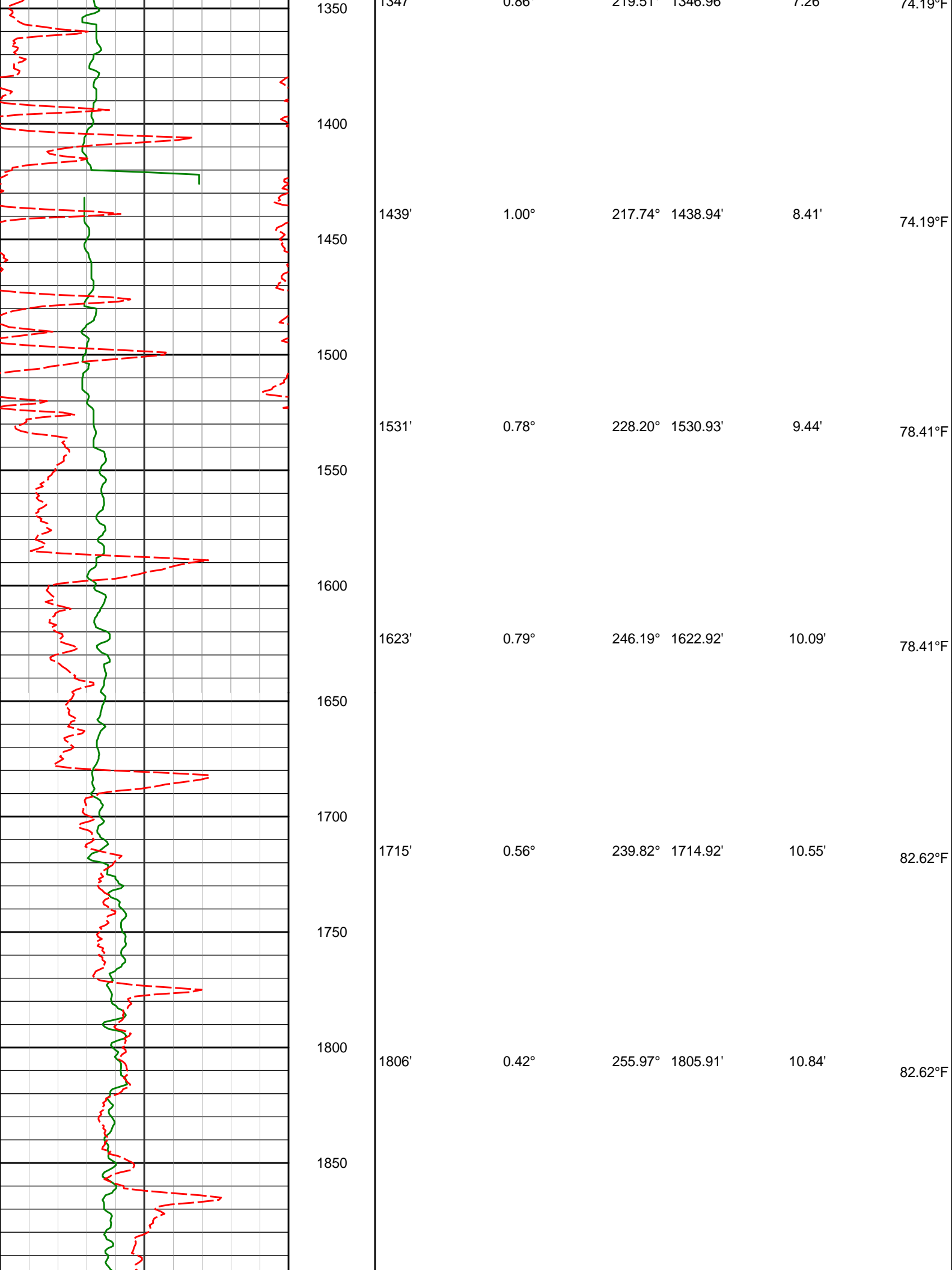
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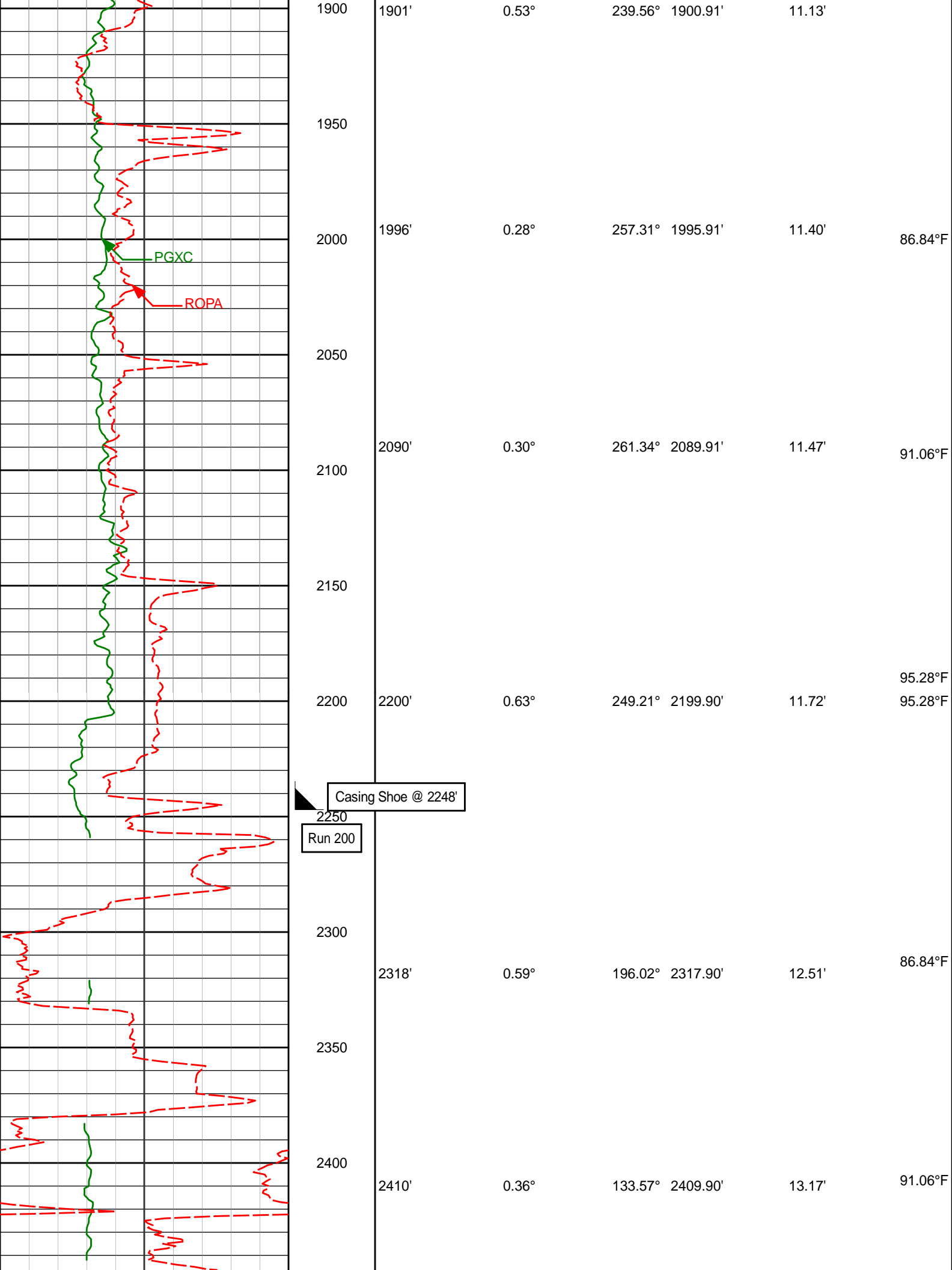
MD Detail 1:600 Scale

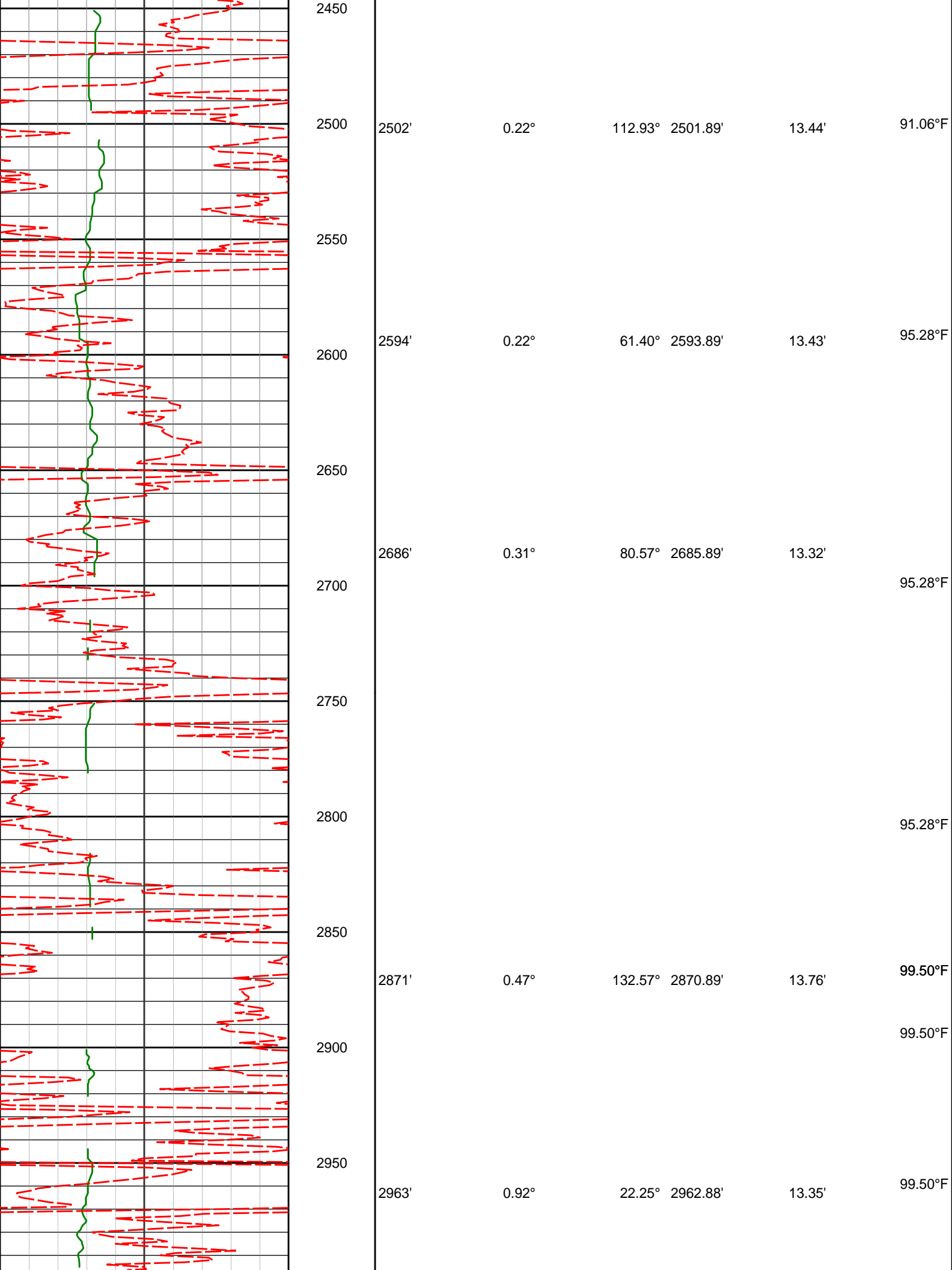


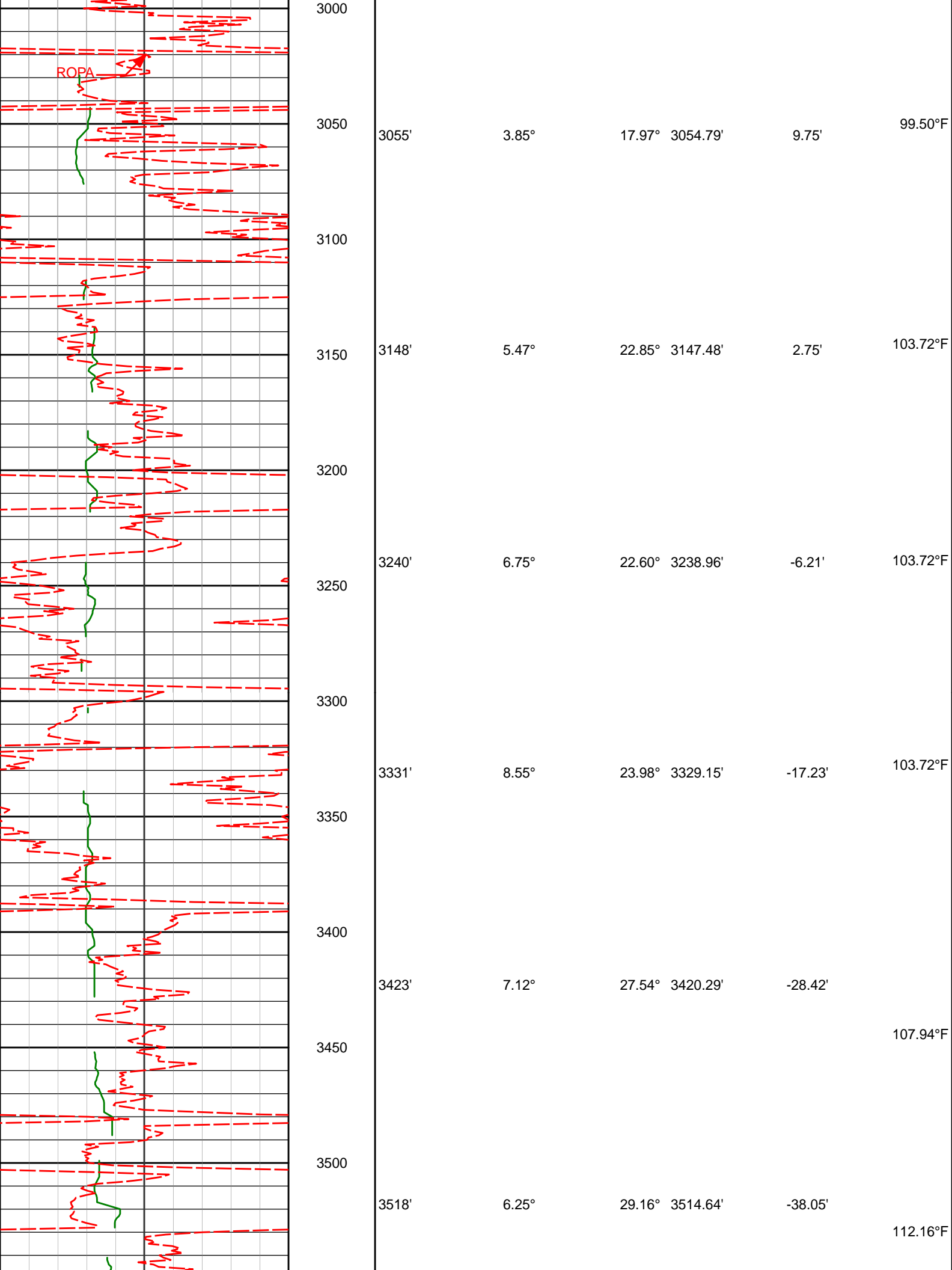


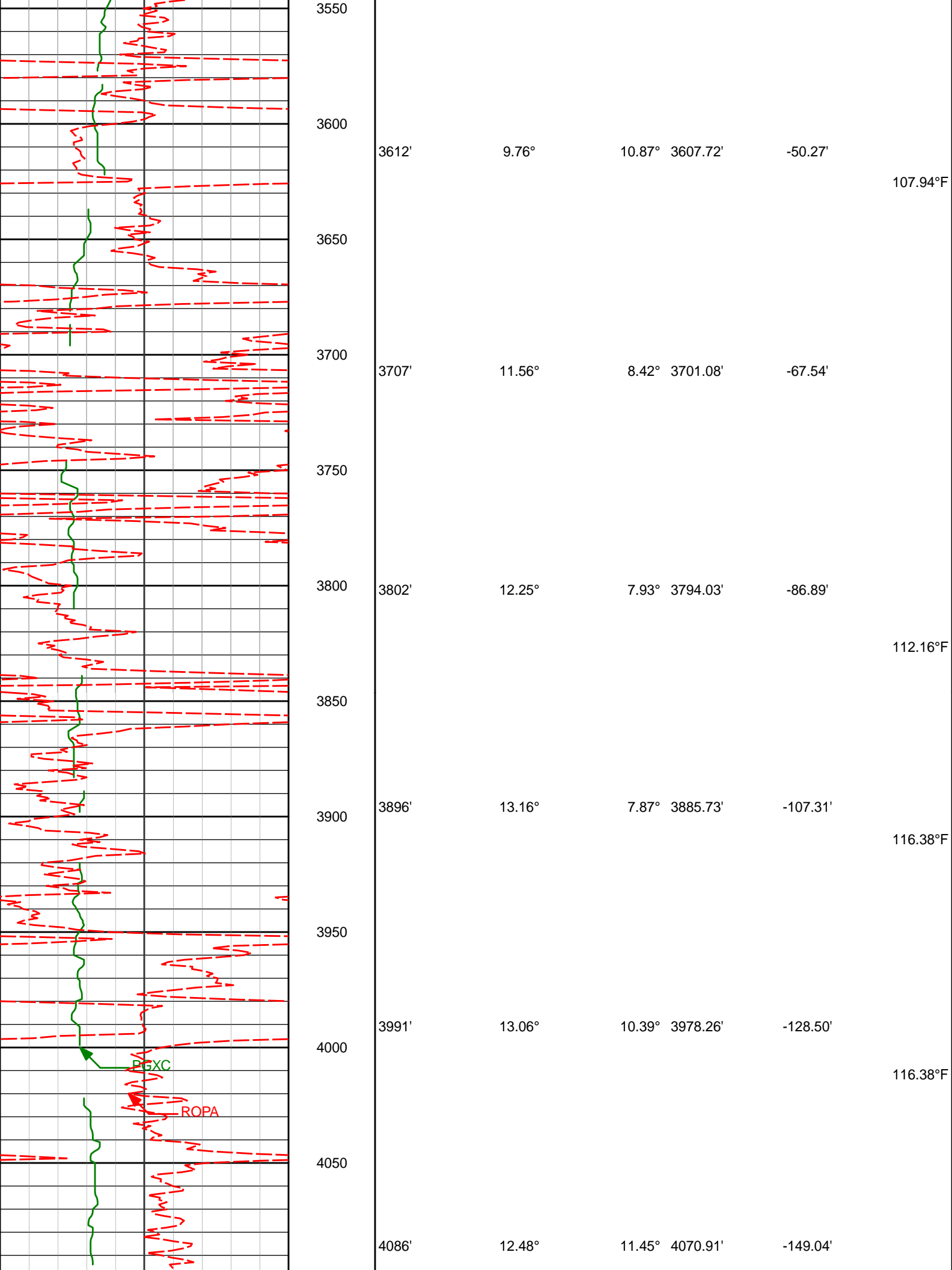


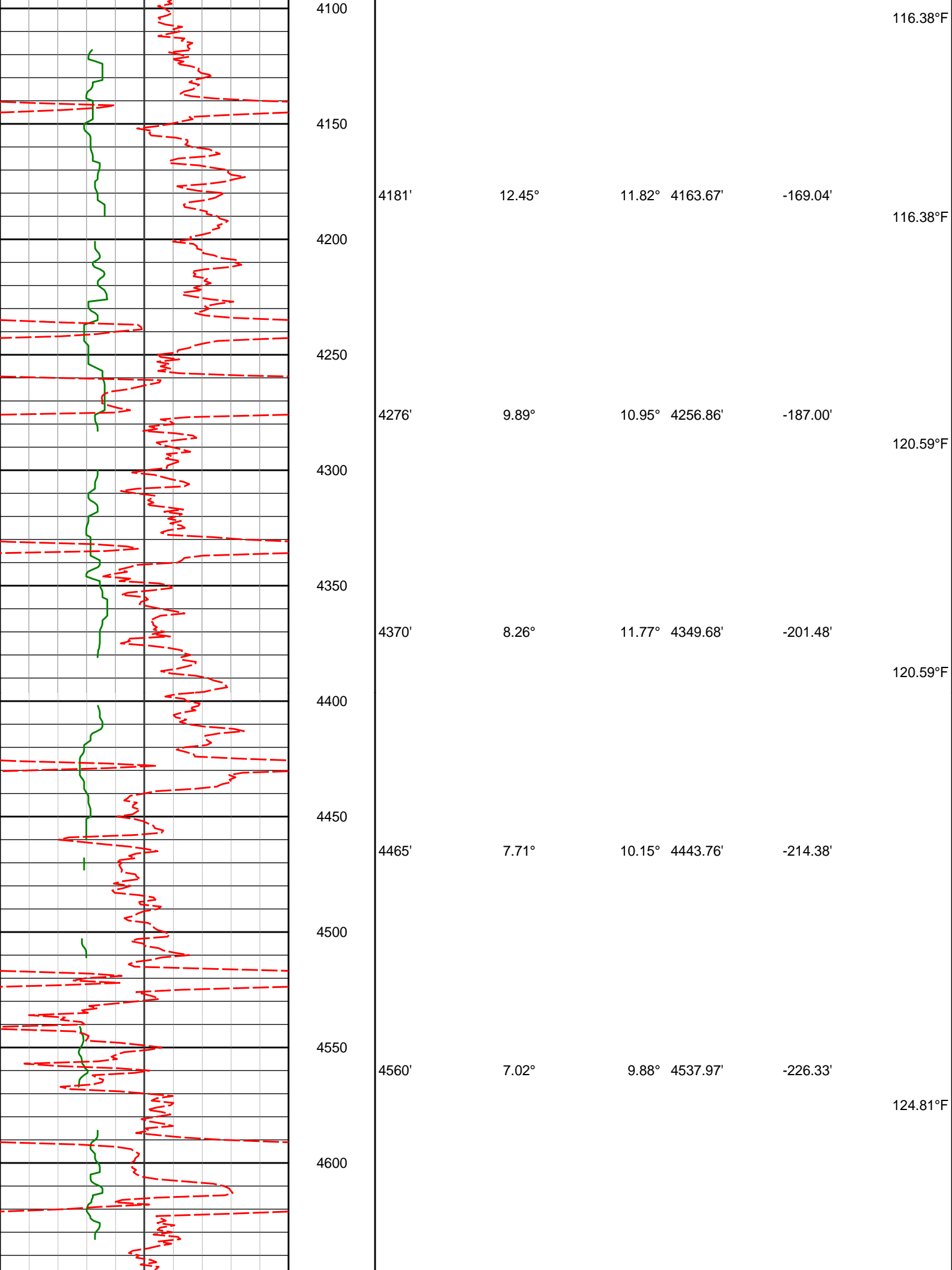


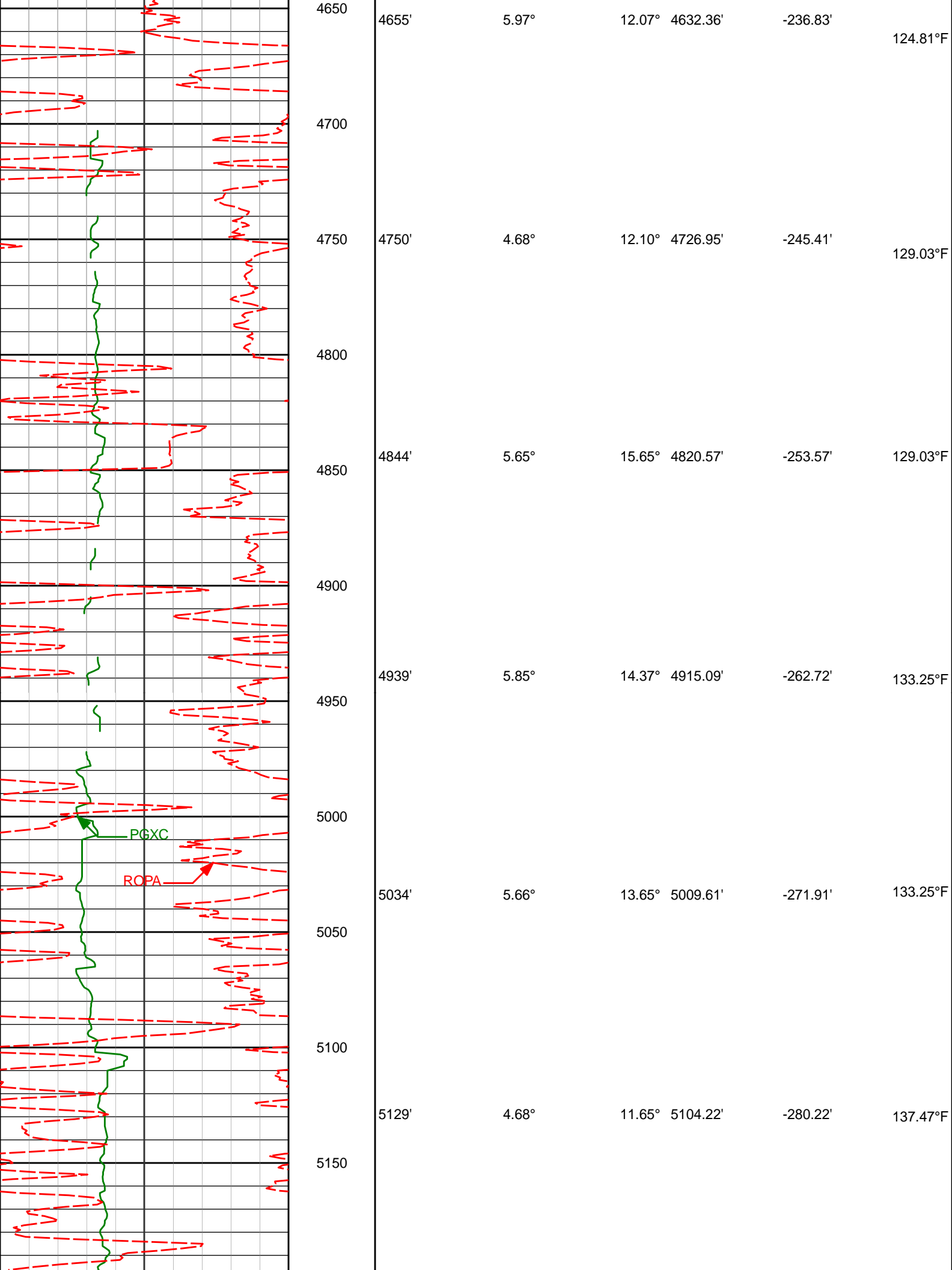


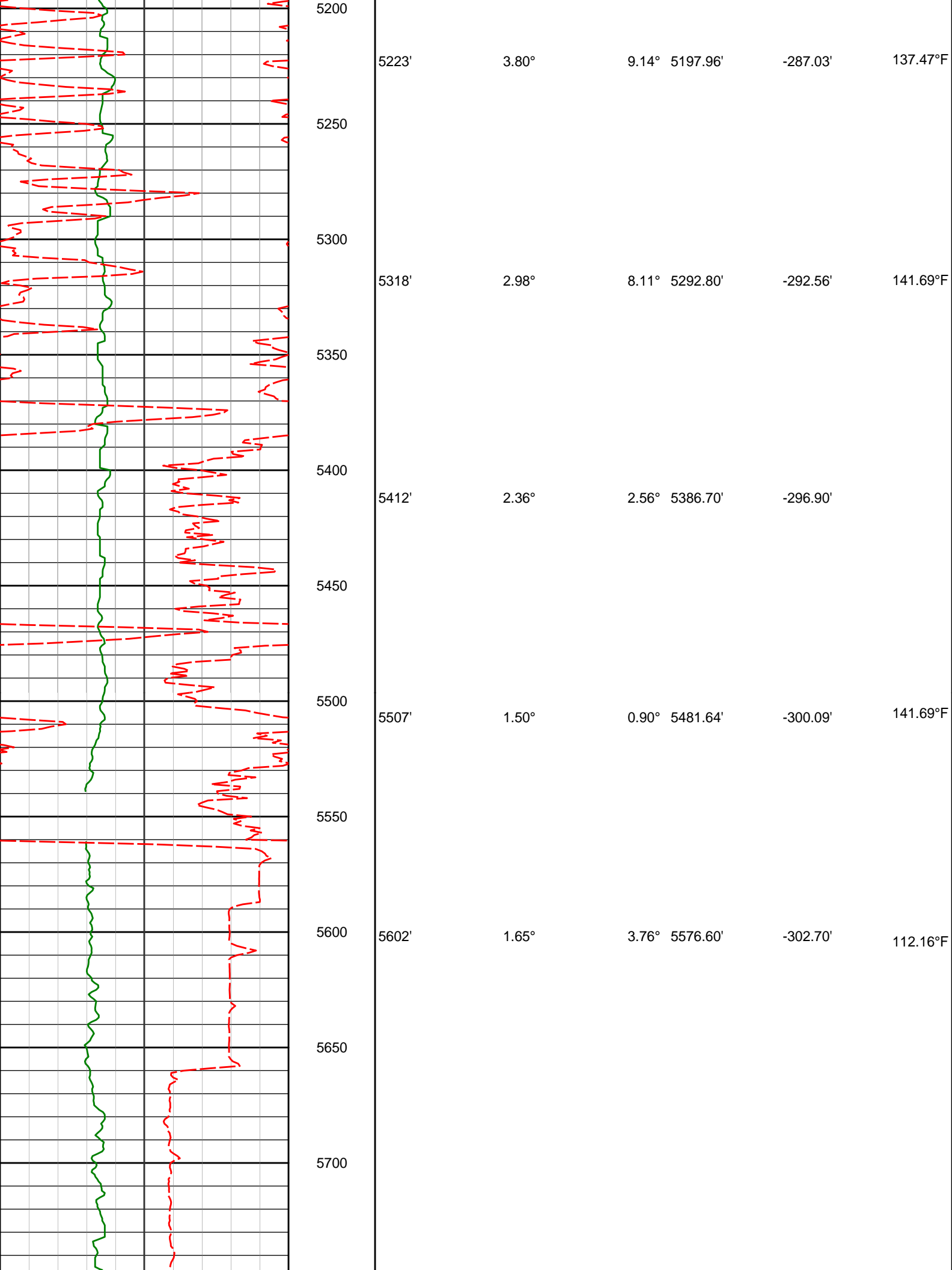


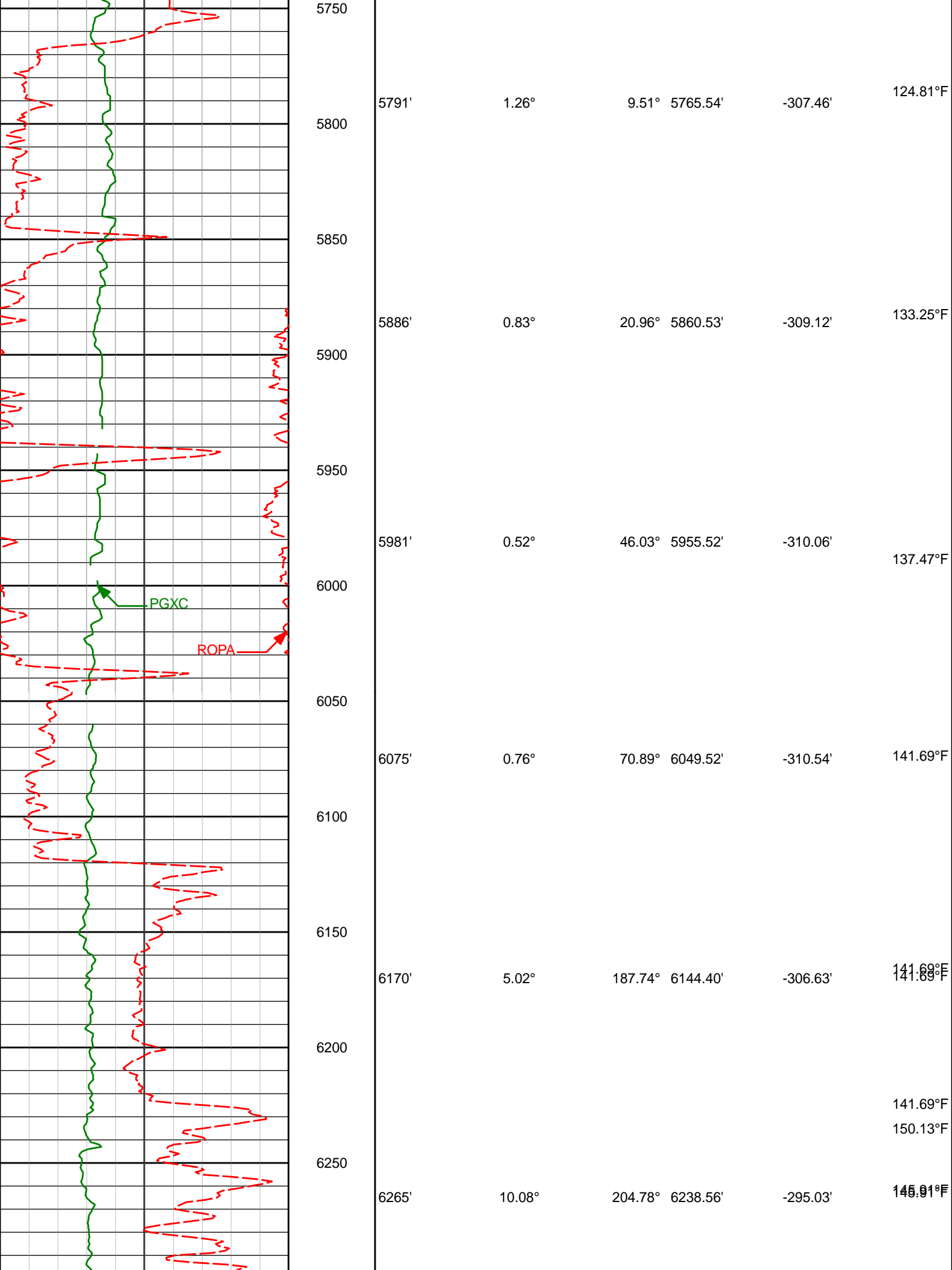


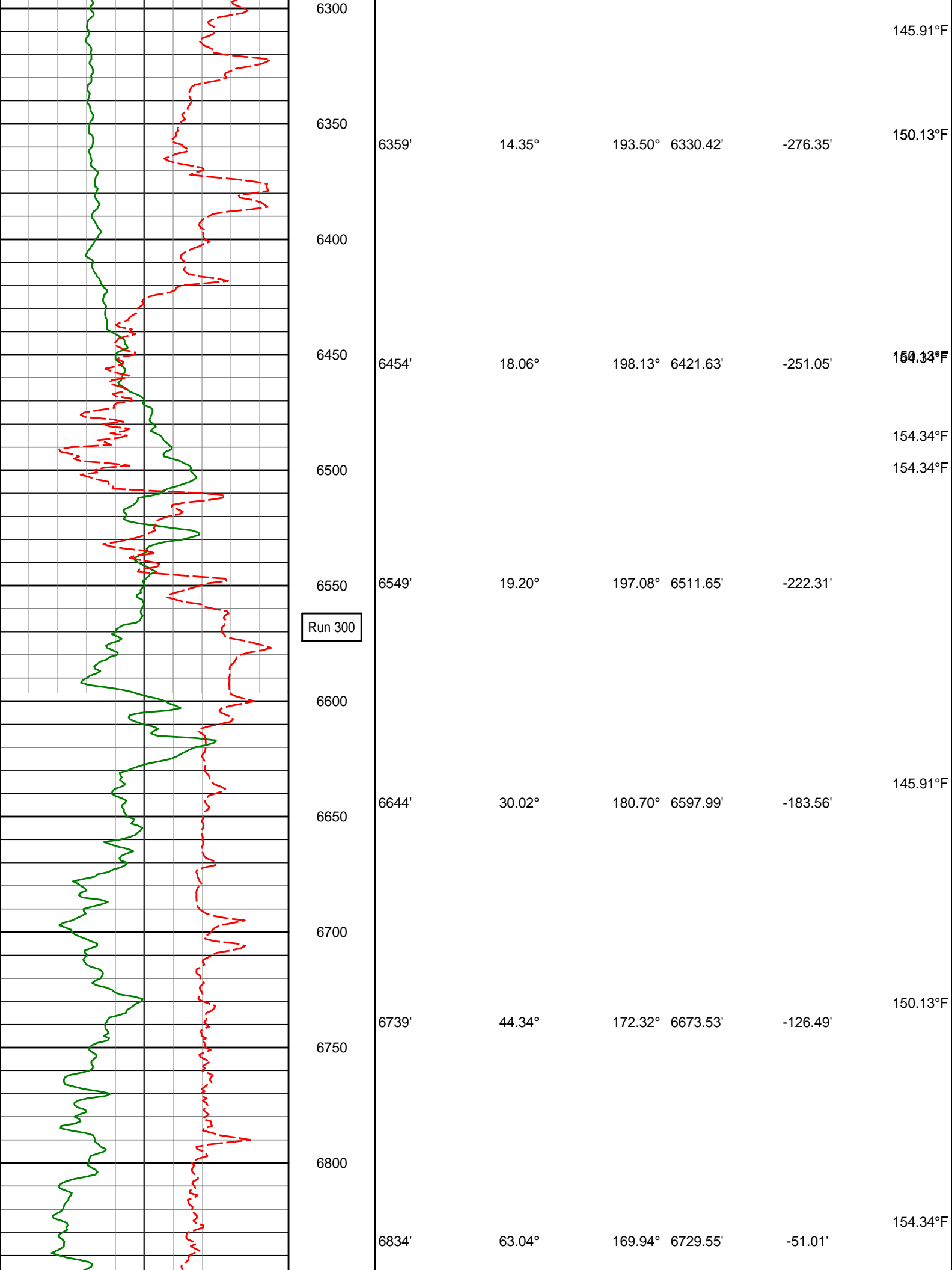


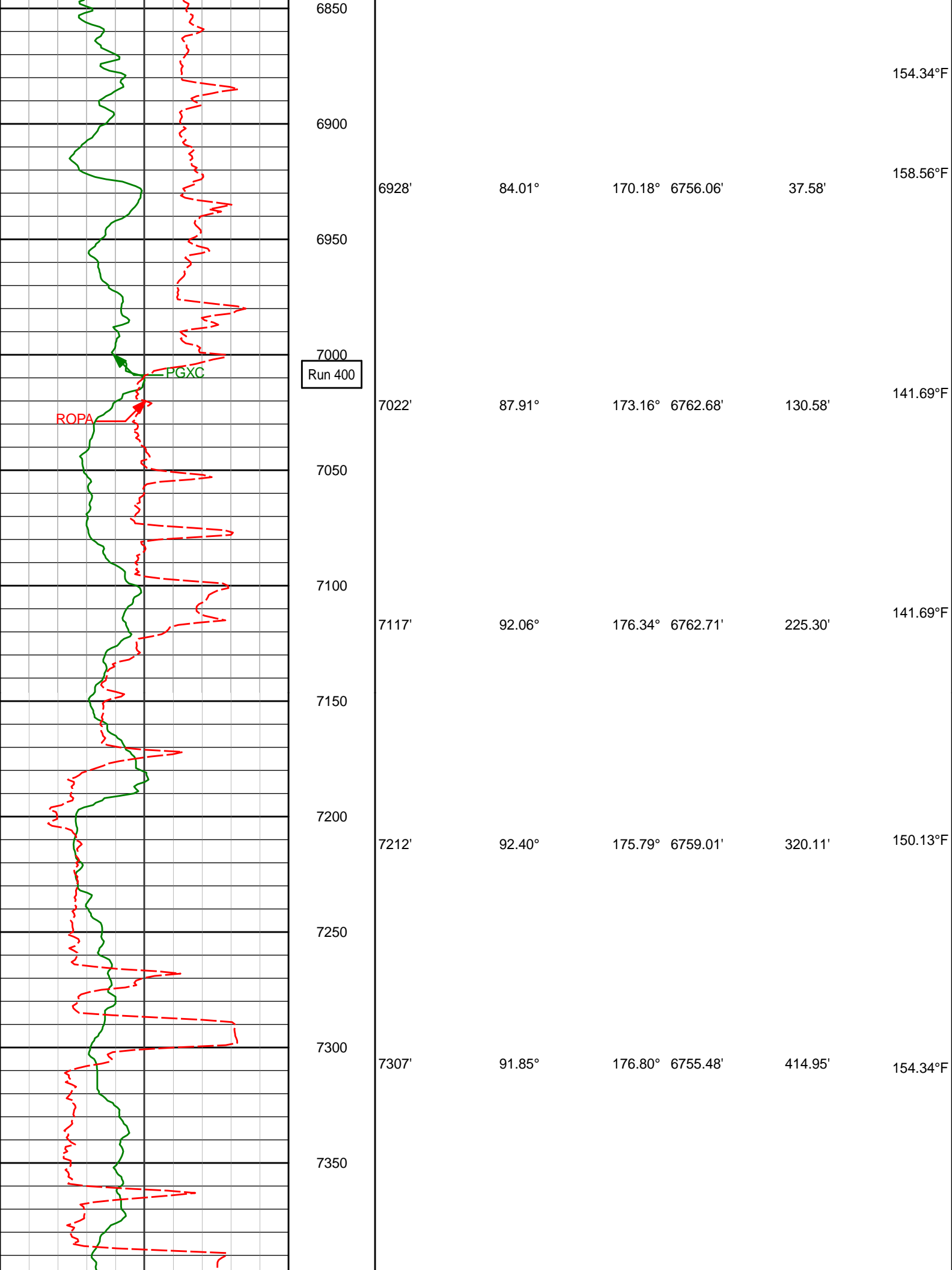


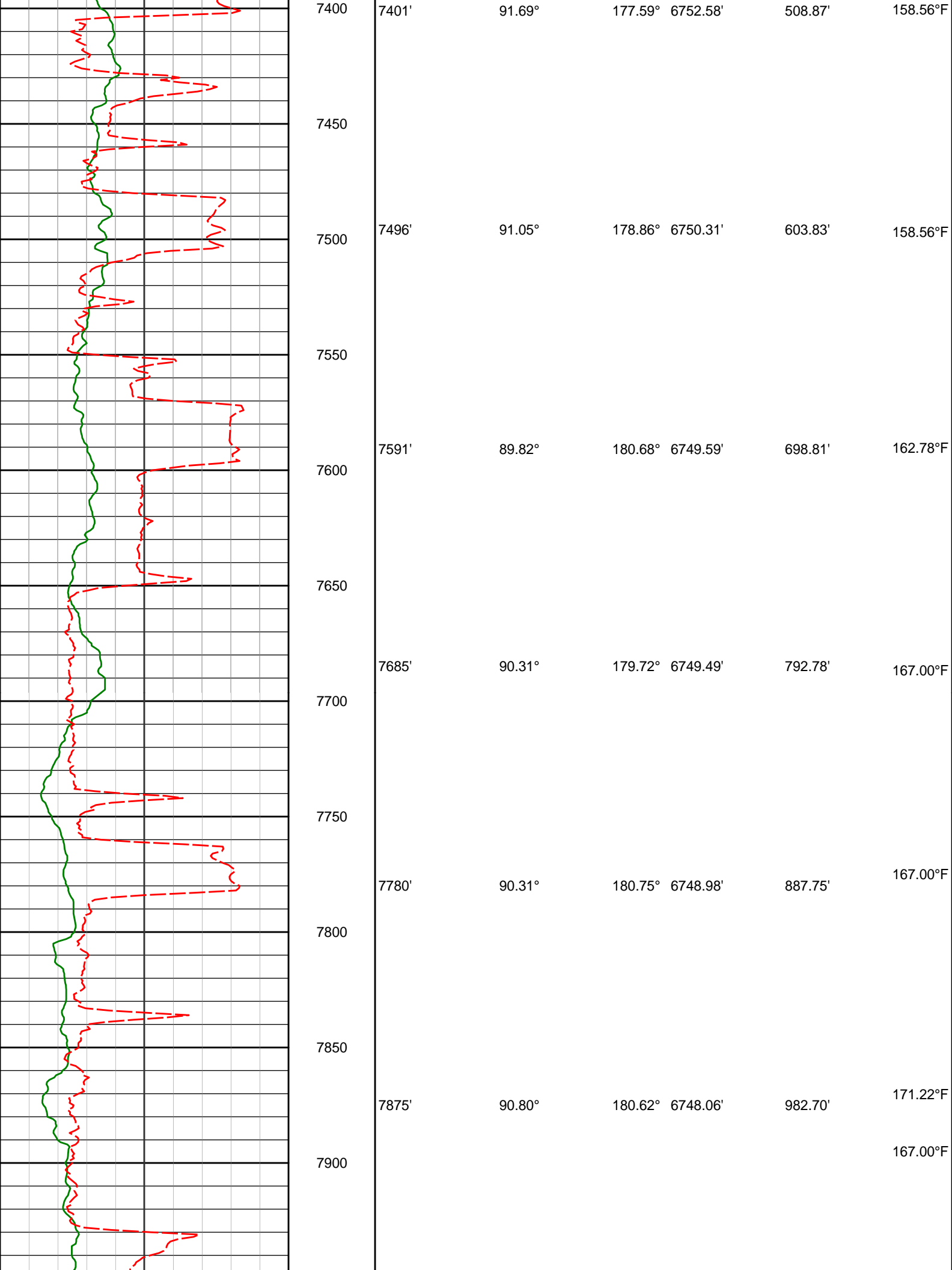


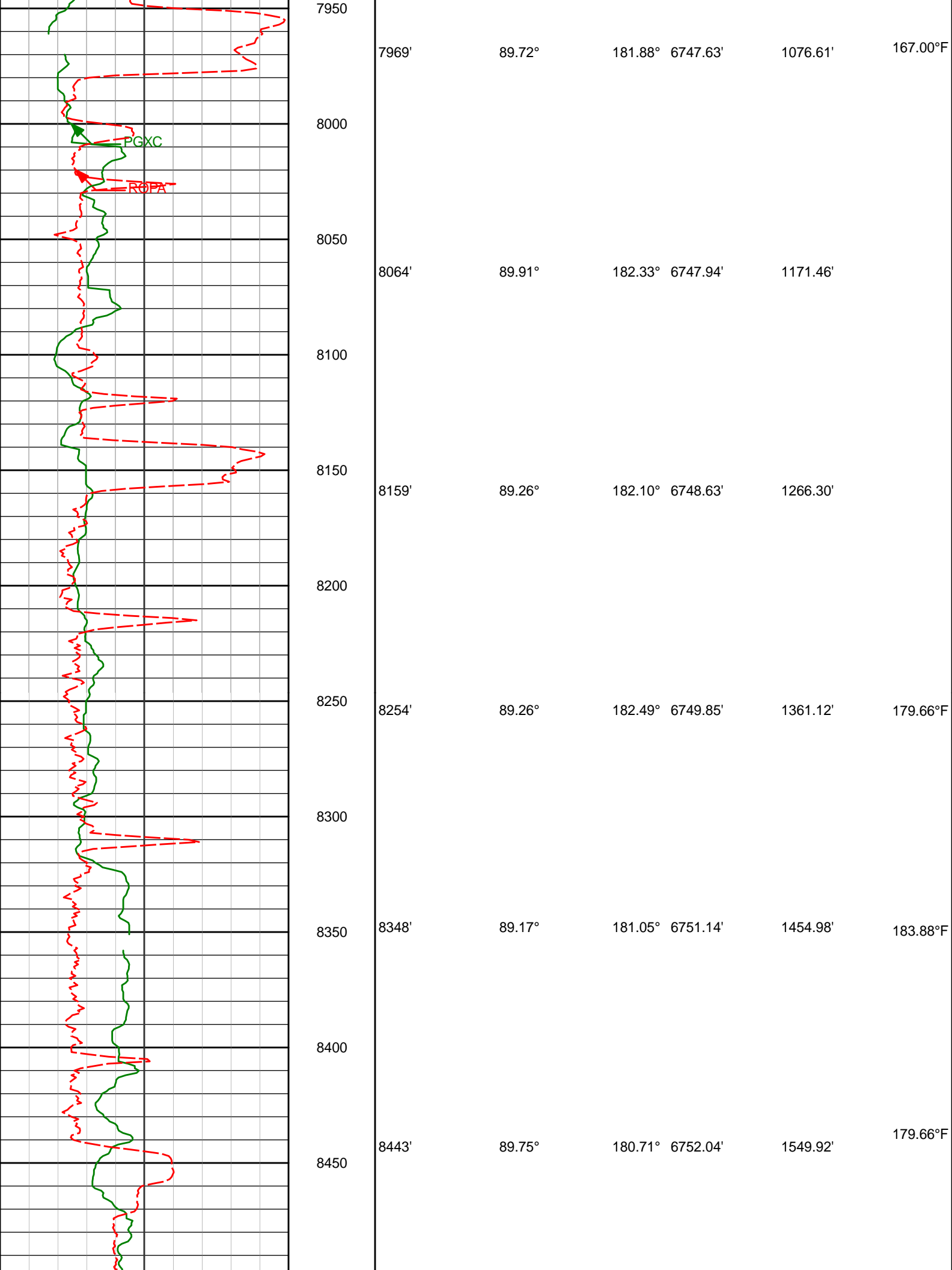


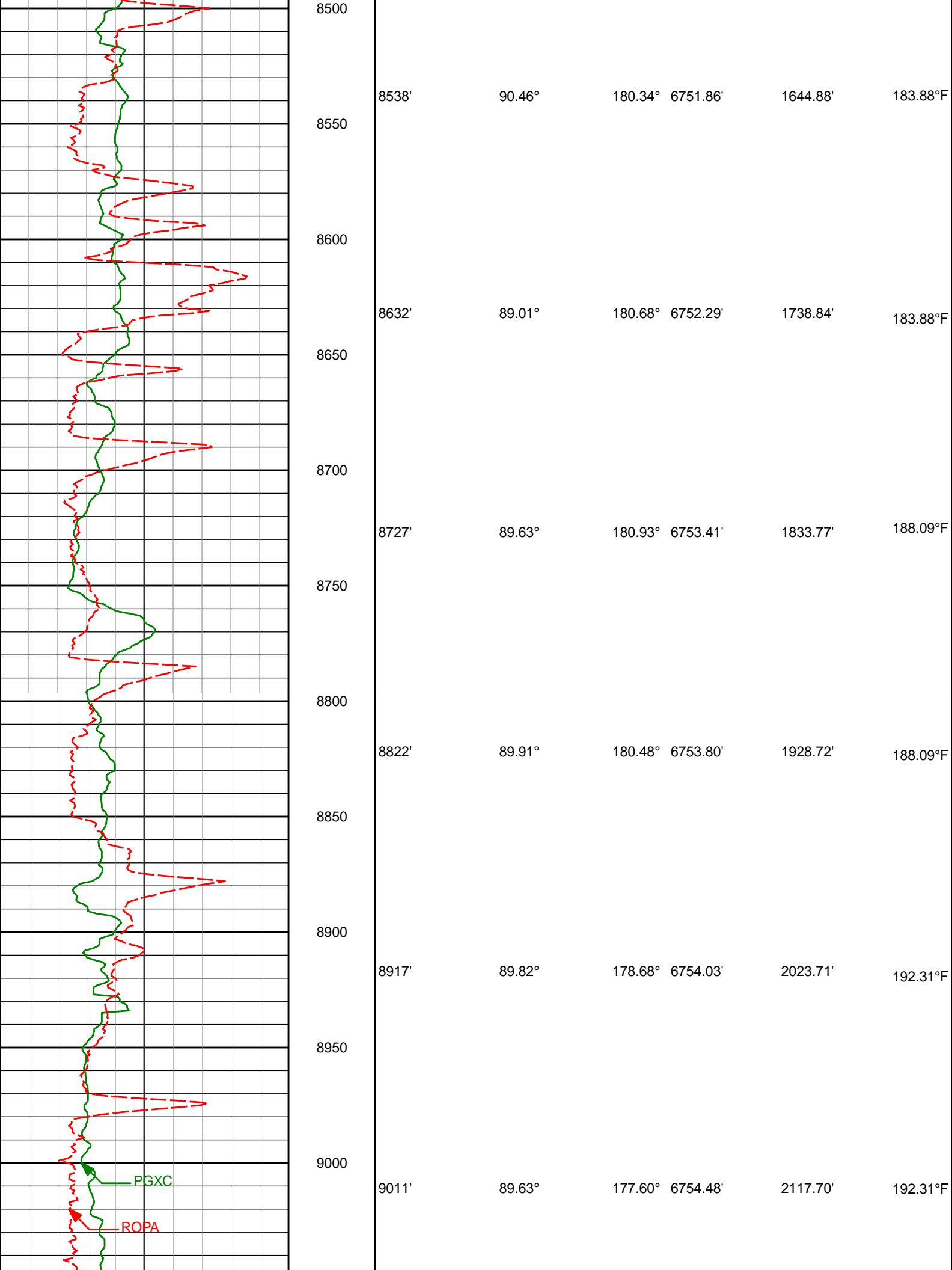


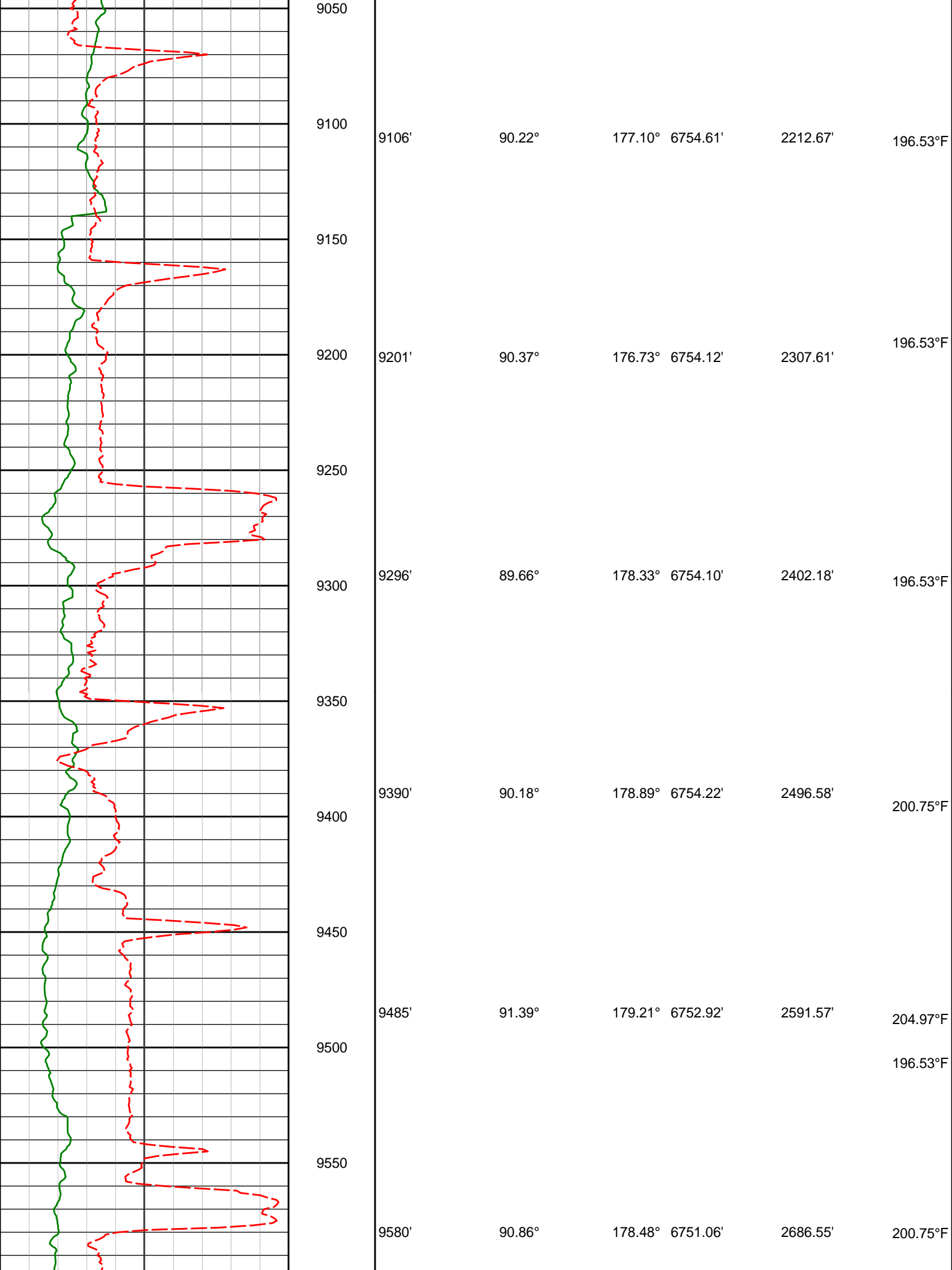


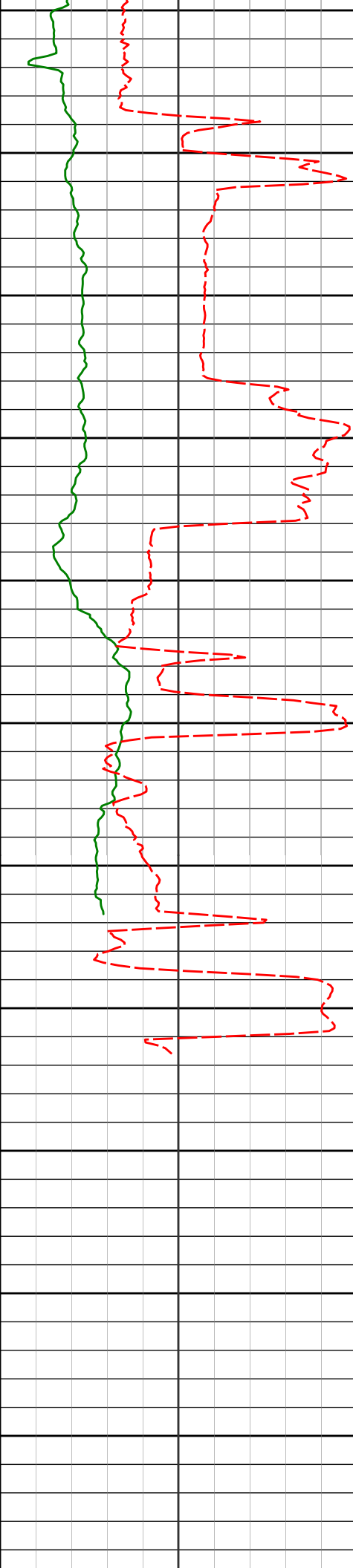












9600
9650
9674'
9700
9750
9769'
9800
9850
9863'
9900
9950
10000
10050
10100

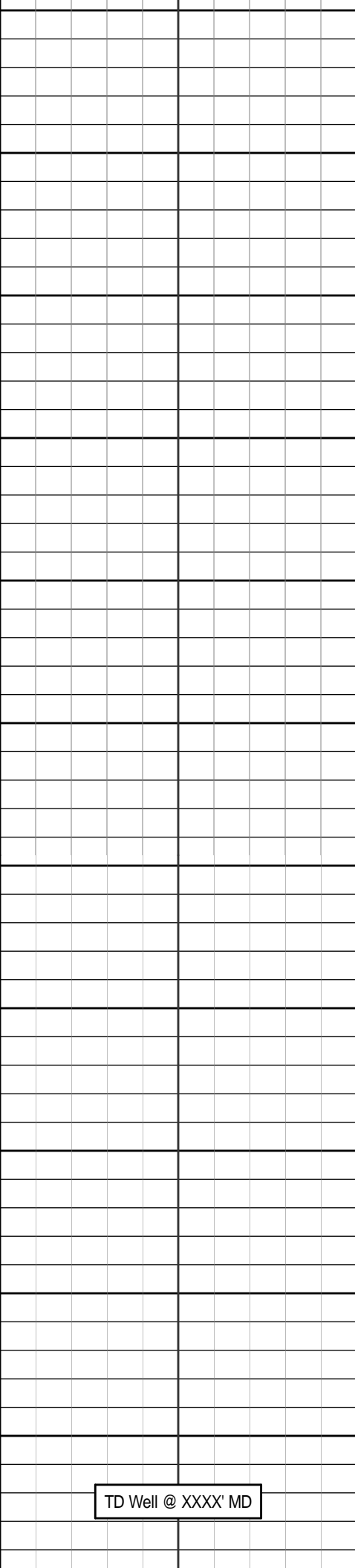
9674'
9769'
9863'

92.16°
88.46°
88.15°

179.29° 6748.58'
178.22° 6748.07'
178.81° 6750.85'

2780.52'
2875.50'
2969.45'

196.53°F
200.75°F
200.75°F



11250

11300

11350

11400

11450

11500

11550

11600

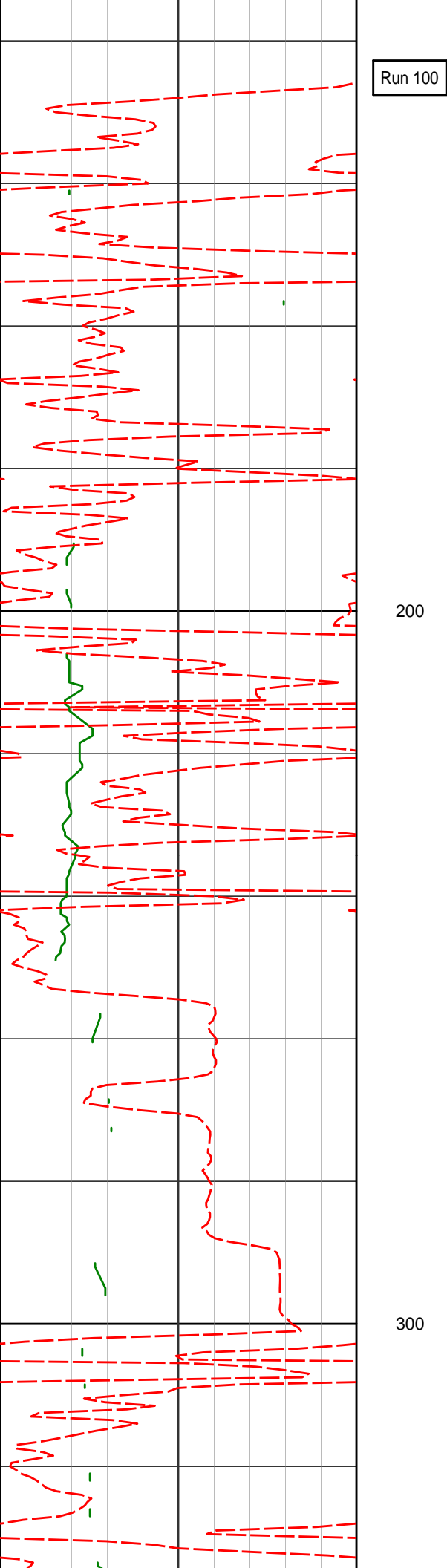
11650

11700

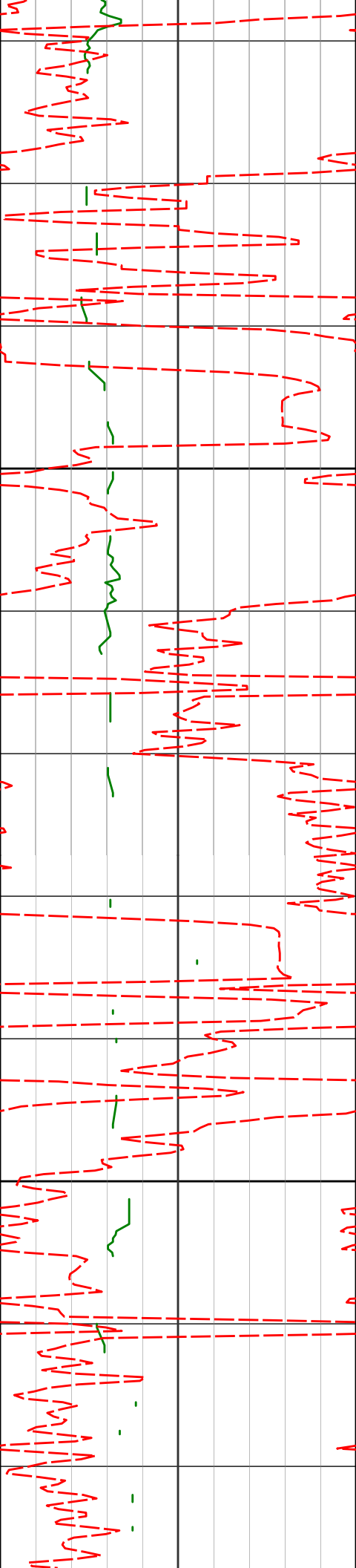
11750

TD Well @ XXXX' MD

[illegible]



244' 0.41° 255.20° 244.00' 0.21' 48.87°F



400

426'

0.19°

235.60° 426.00'

0.53'

53.09°F

500

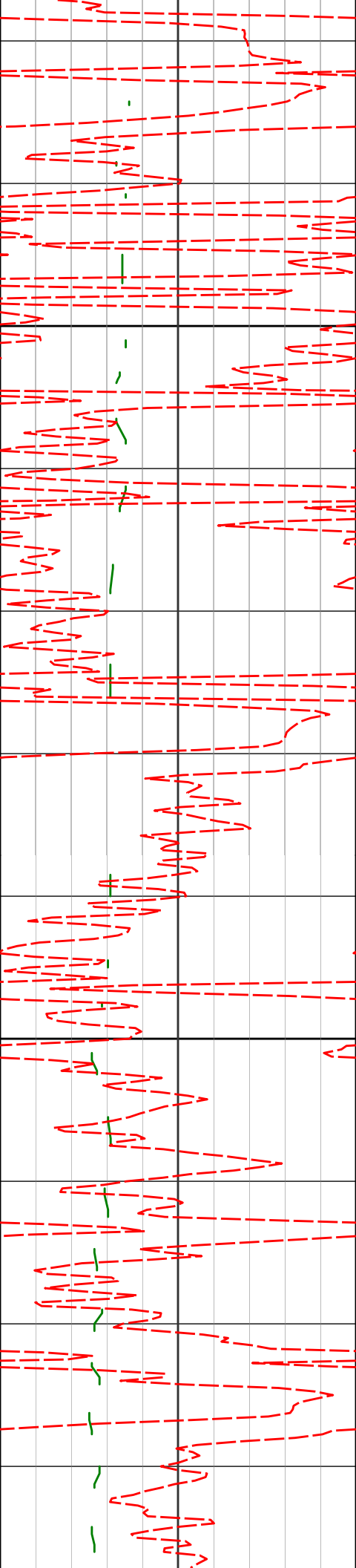
518'

0.16°

281.82° 517.99'

0.59'

57.31°F



600

610'

0.22°

214.48° 609.99'

0.71'

61.53°F

700

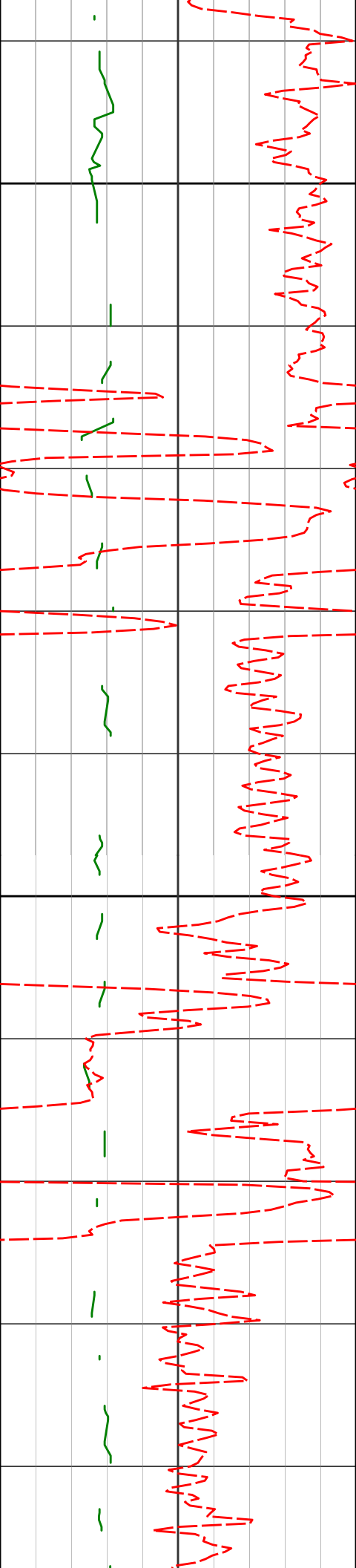
701'

0.26°

187.03° 700.99'

1.06'

61.53°F



800

900

794'

0.42°

186.04° 793.99'

1.61'

65.75°F

885'

0.54°

194.76° 884.99'

2.36'

65.75°F

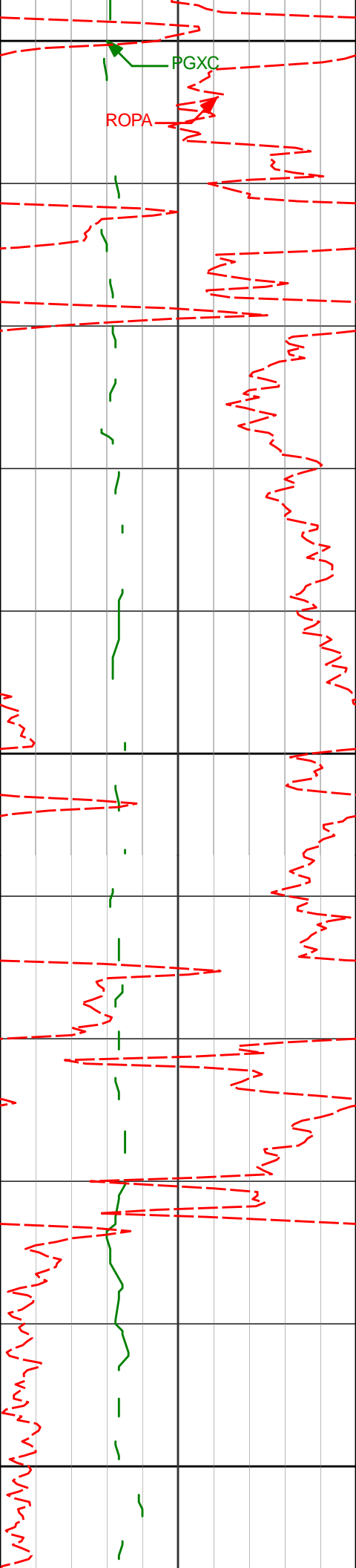
977'

0.68°

200.05° 976.98'

3.29'

69.97°F



1000

PGXC

ROPA

1070'

0.62°

197.03° 1069.98'

4.28'

69.97°F

1100

1162'

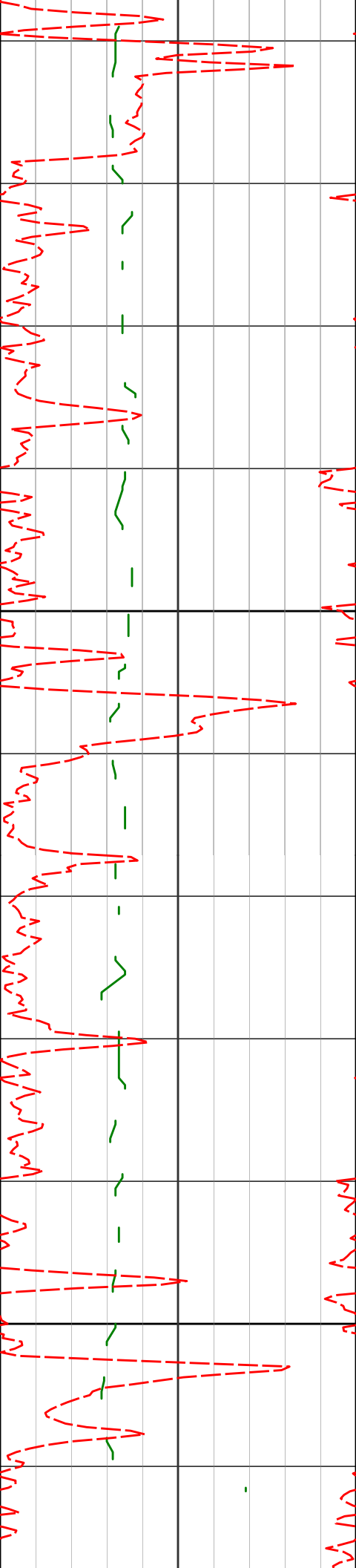
0.77°

213.08° 1161.97'

5.26'

69.97°F

1200



1300

1400

1254'

0.65°

204.02° 1253.96'

6.25'

69.97°F

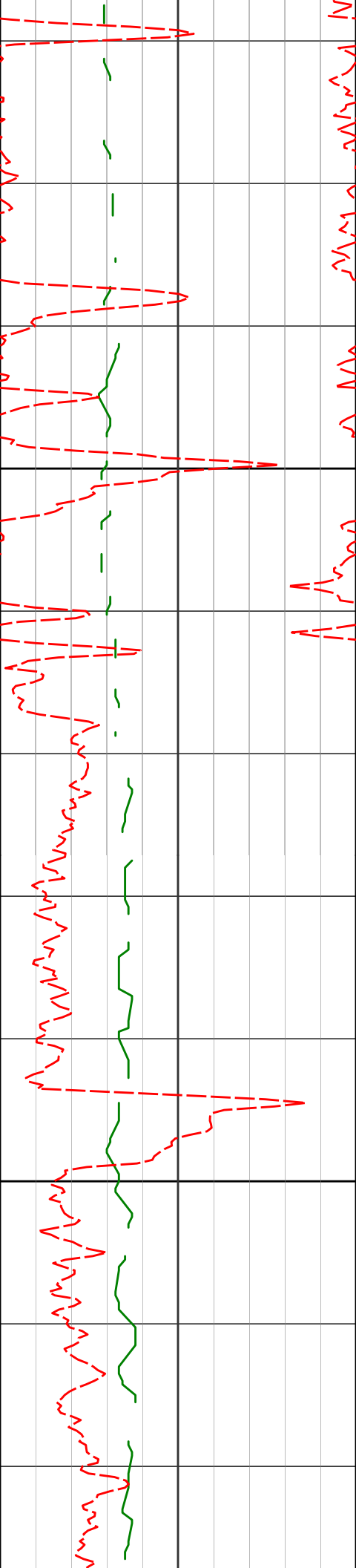
1347'

0.86°

219.51° 1346.96'

7.26'

74.19°F



1439'

1.00°

217.74° 1438.94'

8.41'

74.19°F

1500

1531'

0.78°

228.20° 1530.93'

9.44'

78.41°F

1600

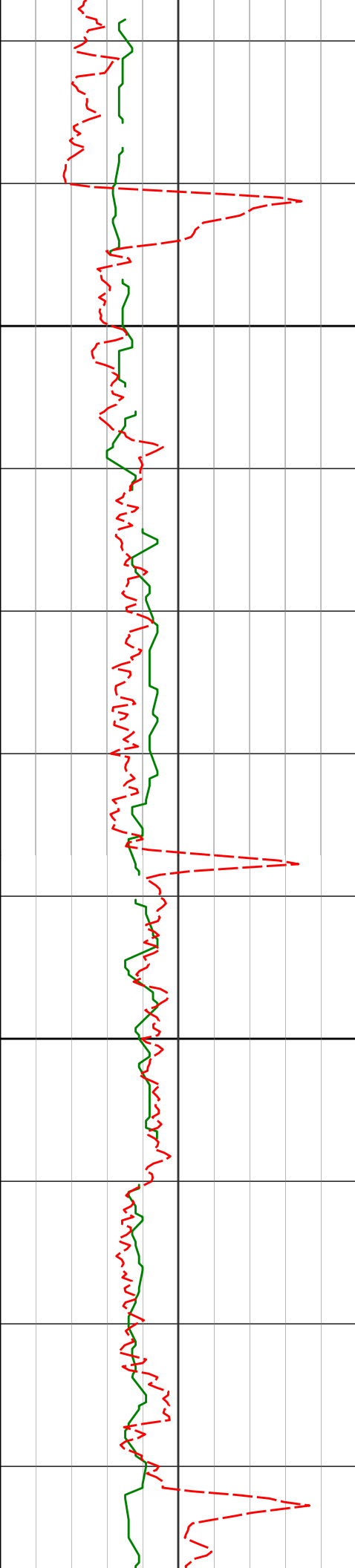
1623'

0.79°

246.19° 1622.92'

10.09'

78.41°F



1700

1715'

0.56°

239.82° 1714.92'

10.55'

82.62°F

1800

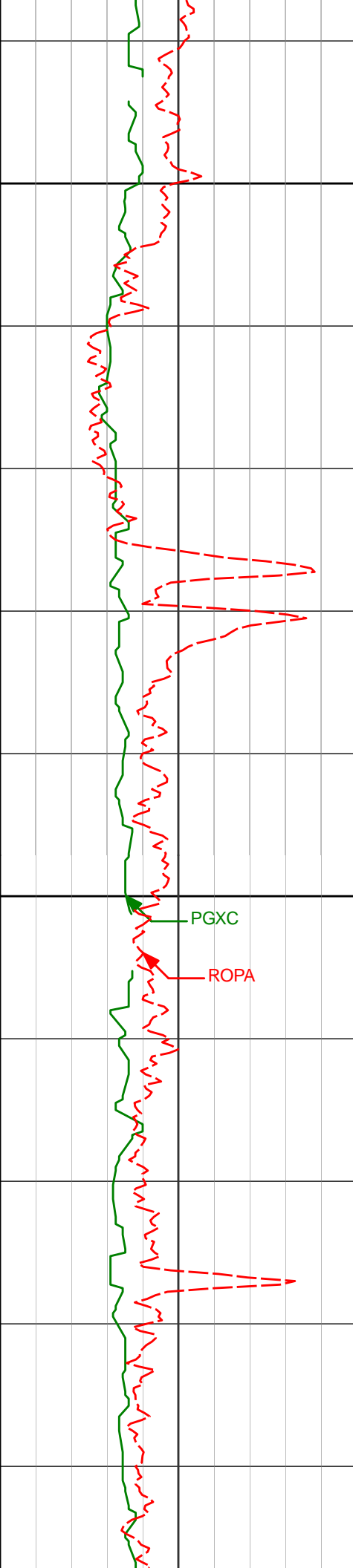
1806'

0.42°

255.97° 1805.91'

10.84'

82.62°F



1900

1901'

0.53°

239.56° 1900.91'

11.13'

2000

1996'

0.28°

257.31° 1995.91'

11.40'

86.84°F

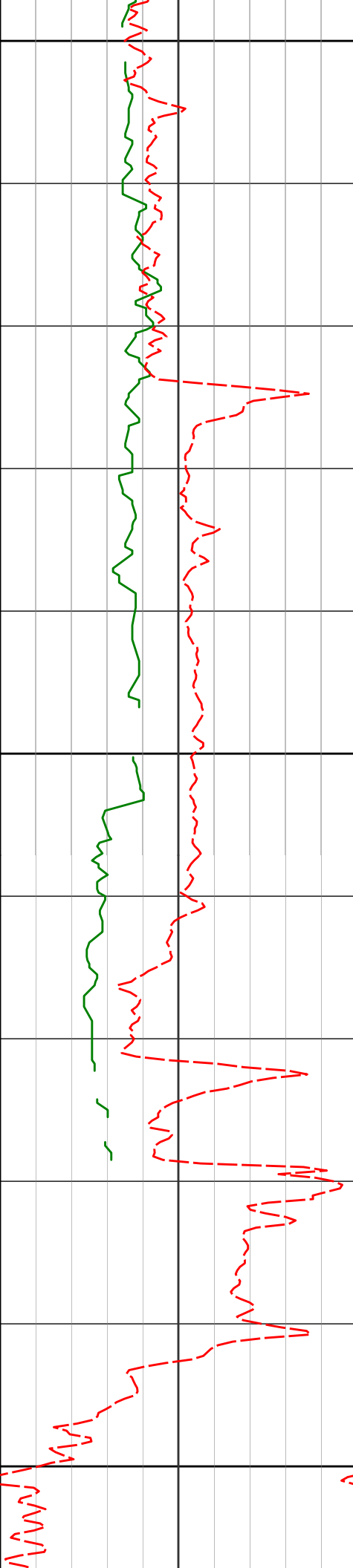
2090'

0.30°

261.34° 2089.91'

11.47'

91.06°F



2100

2200

2300

2200'

0.63°

249.21° 2199.90'

11.72'

95.28°F

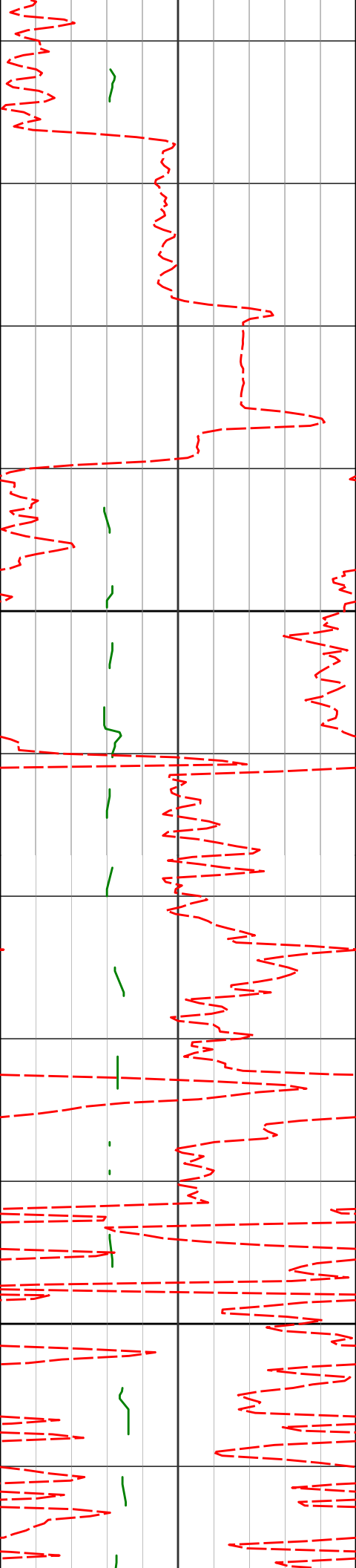
95.28°F



Casing Shoe @ 2248'

Run 200

86.84°F



2318'

0.59°

196.02° 2317.90'

12.51'

2400

2410'

0.36°

133.57° 2409.90'

13.17'

91.06°F

2500

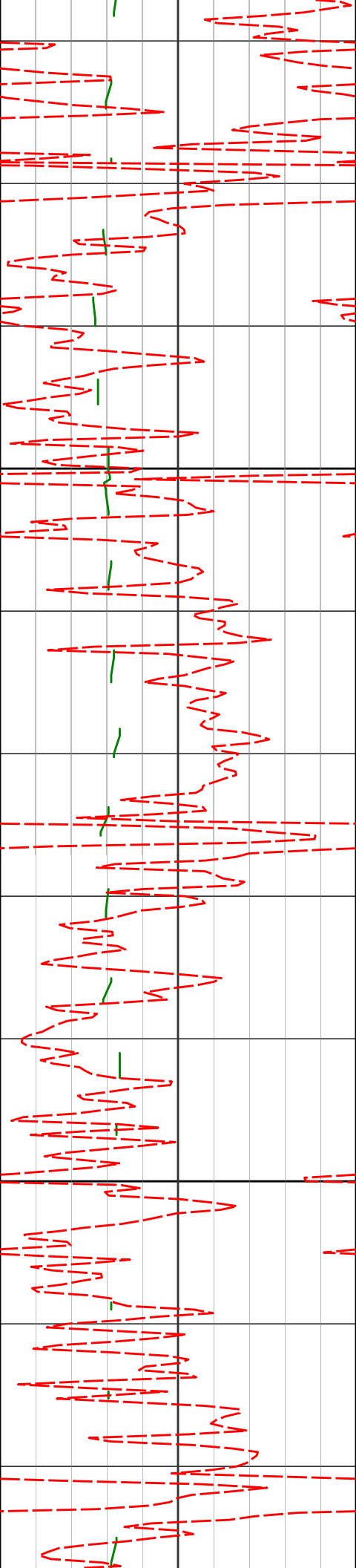
2502'

0.22°

112.93° 2501.89'

13.44'

91.06°F



2594'
2600

2686'
2700

2594'

0.22°

61.40° 2593.89'

13.43'

95.28°F

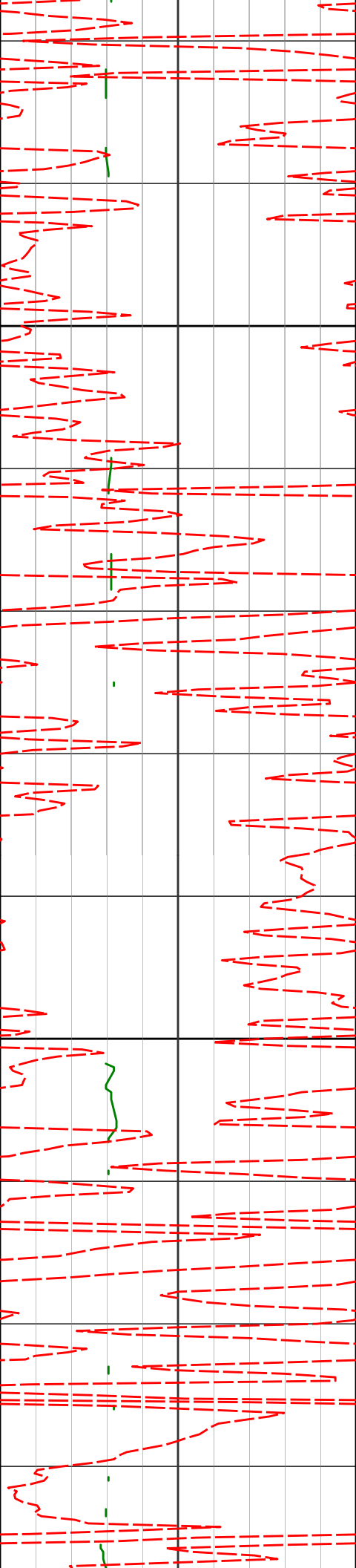
2686'

0.31°

80.57° 2685.89'

13.32'

95.28°F



2800

95.28°F

2871'

0.47°

132.57° 2870.89'

13.76'

99.50°F

2900

99.50°F

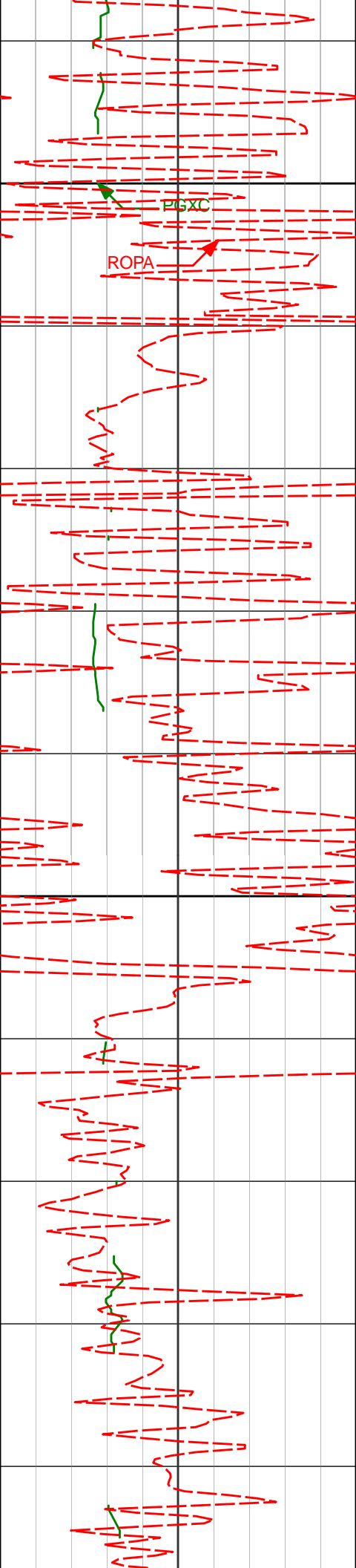
2963'

0.92°

22.25° 2962.88'

13.35'

99.50°F



3000

3055'

3.85°

17.97° 3054.79'

9.75'

99.50°F

3100

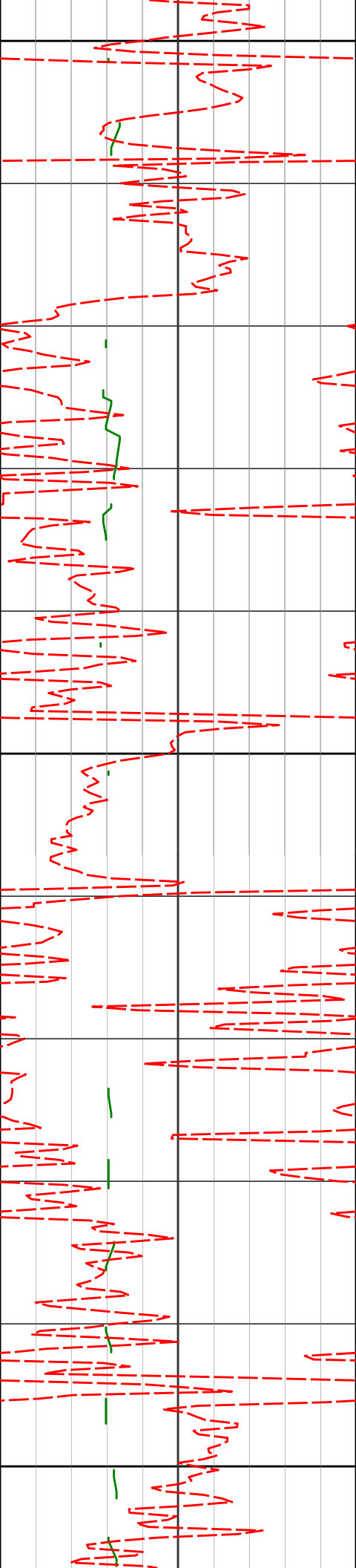
3148'

5.47°

22.85° 3147.48'

2.75'

103.72°F



3200

3240'

6.75°

22.60° 3238.96'

-6.21'

103.72°F

3300

3331'

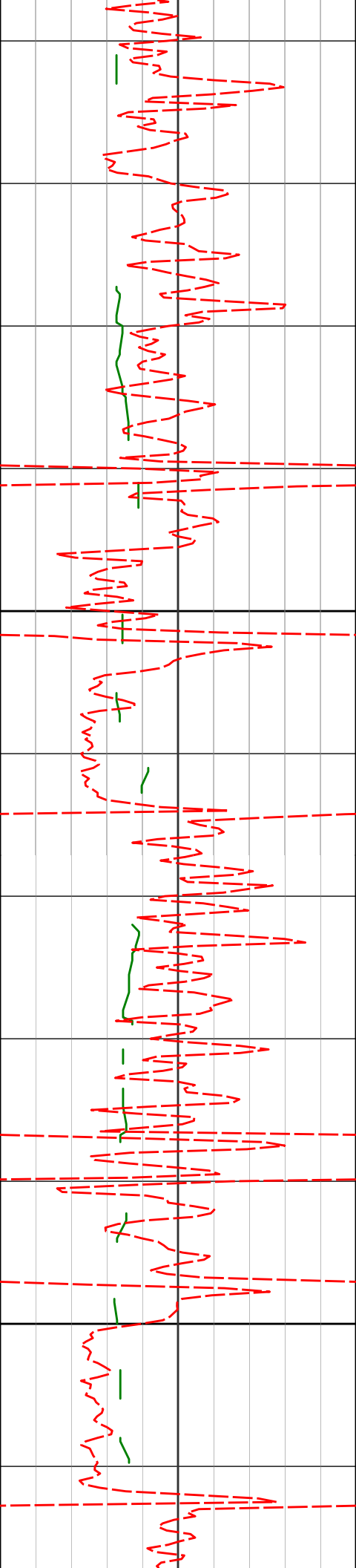
8.55°

23.98° 3329.15'

-17.23'

103.72°F

3400



3423'

7.12°

27.54° 3420.29'

-28.42'

107.94°F

3500

3518'

6.25°

29.16° 3514.64'

-38.05'

112.16°F

3600

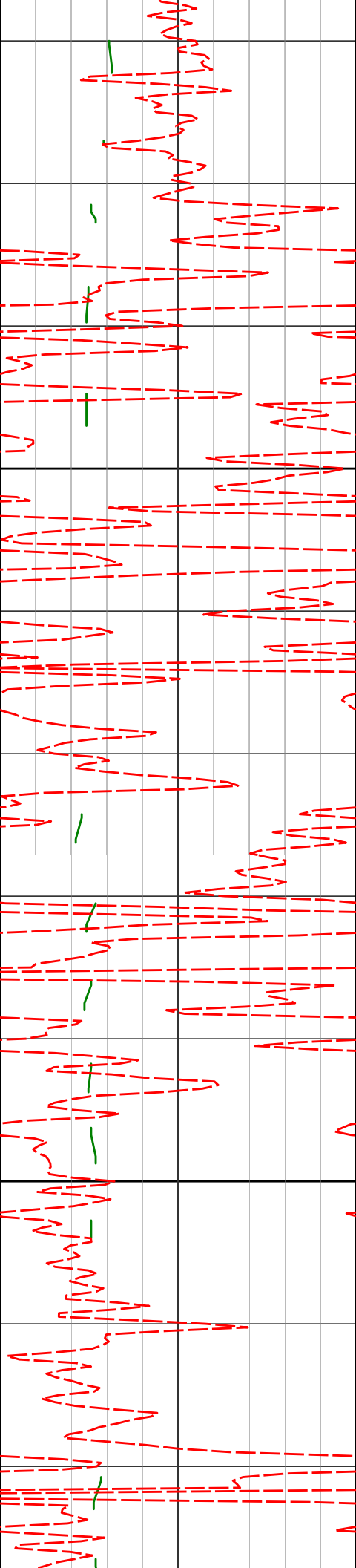
3612'

9.76°

10.87° 3607.72'

-50.27'

107.94°F



3700

3707'

11.56°

8.42° 3701.08'

-67.54'

3800

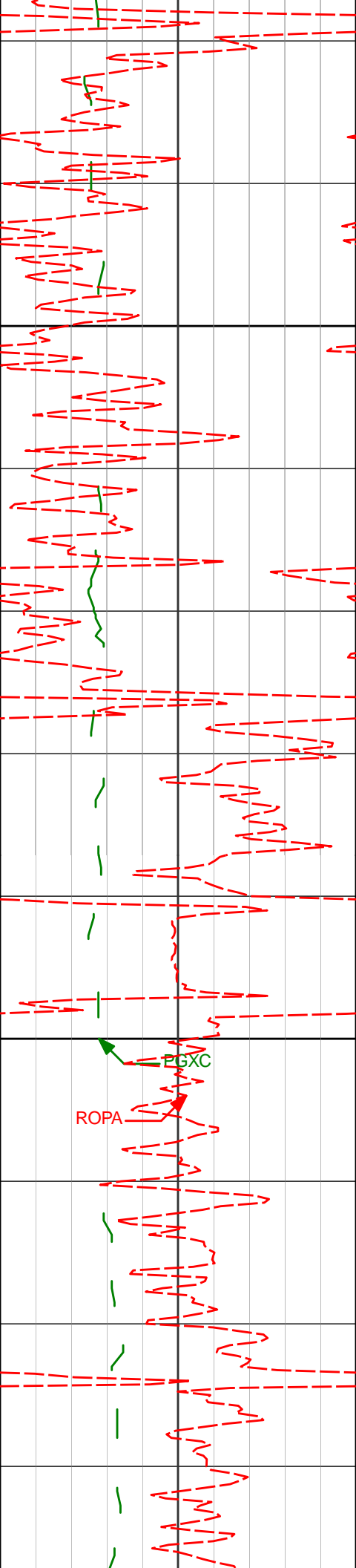
3802'

12.25°

7.93° 3794.03'

-86.89'

112.16°F



3900

4000

3896'

13.16°

7.87° 3885.73'

-107.31'

3991'

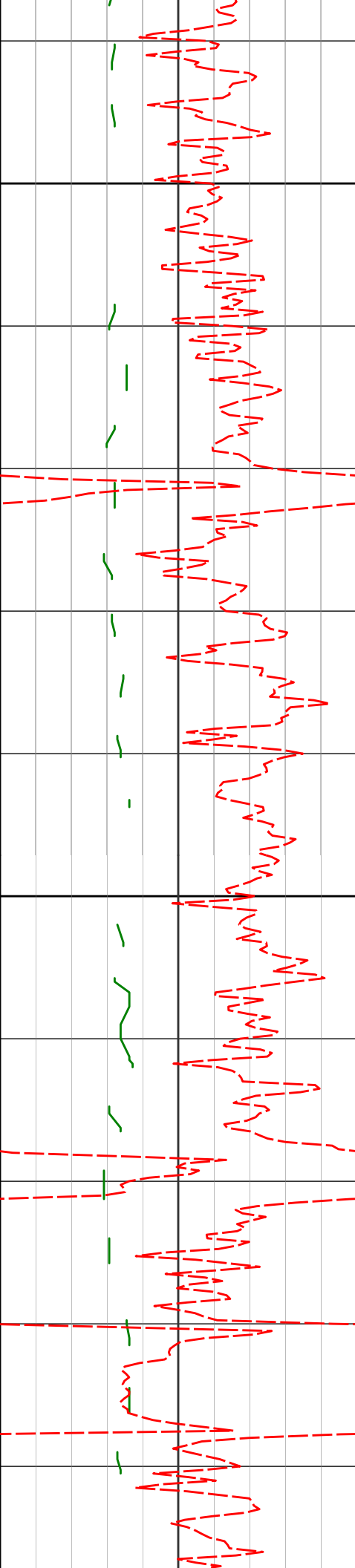
13.06°

10.39° 3978.26'

-128.50'

116.38°F

116.38°F



4100

4200

4086'

12.48°

11.45° 4070.91'

-149.04'

4181'

12.45°

11.82° 4163.67'

-169.04'

4276'

9.89°

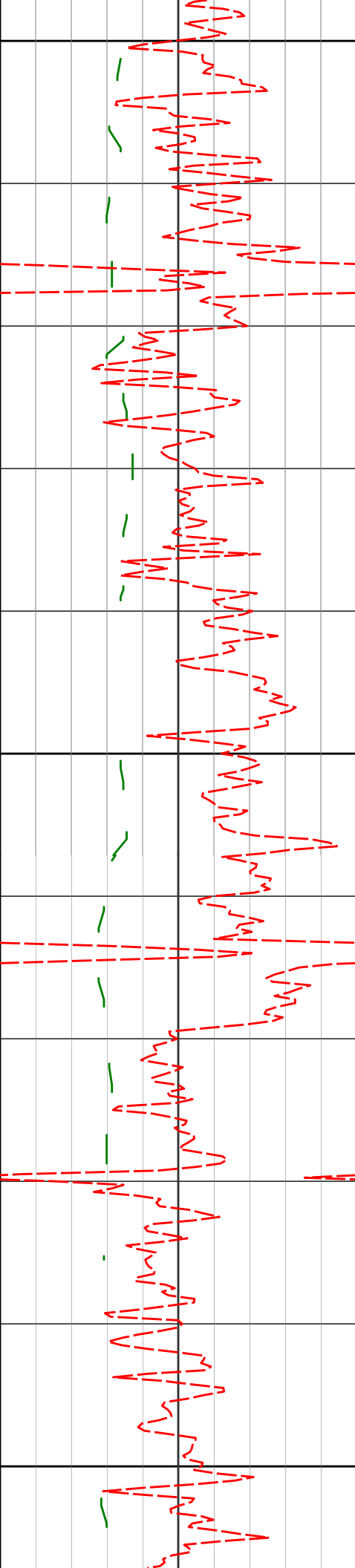
10.95° 4256.86'

-187.00'

116.38°F

116.38°F

120.59°F



4300

4370'

8.26°

11.77° 4349.68'

-201.48'

4400

4465'

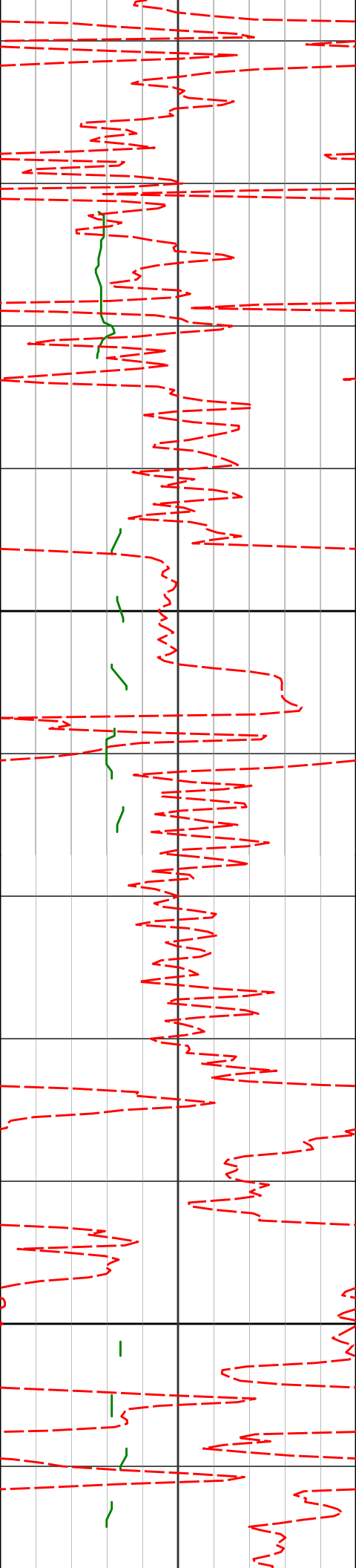
7.71°

10.15° 4443.76'

-214.38'

4500

120.59°F



4560'

7.02°

9.88° 4537.97'

-226.33'

124.81°F

4600

4655'

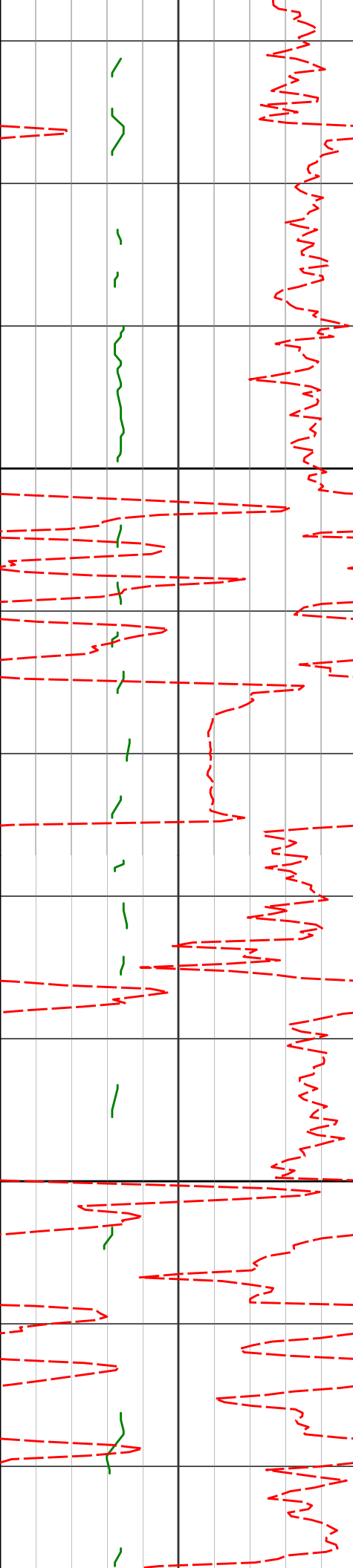
5.97°

12.07° 4632.36'

-236.83'

124.81°F

4700



4750'

4.68°

12.10° 4726.95'

-245.41'

129.03°F

4800

4844'

5.65°

15.65° 4820.57'

-253.57'

129.03°F

4900

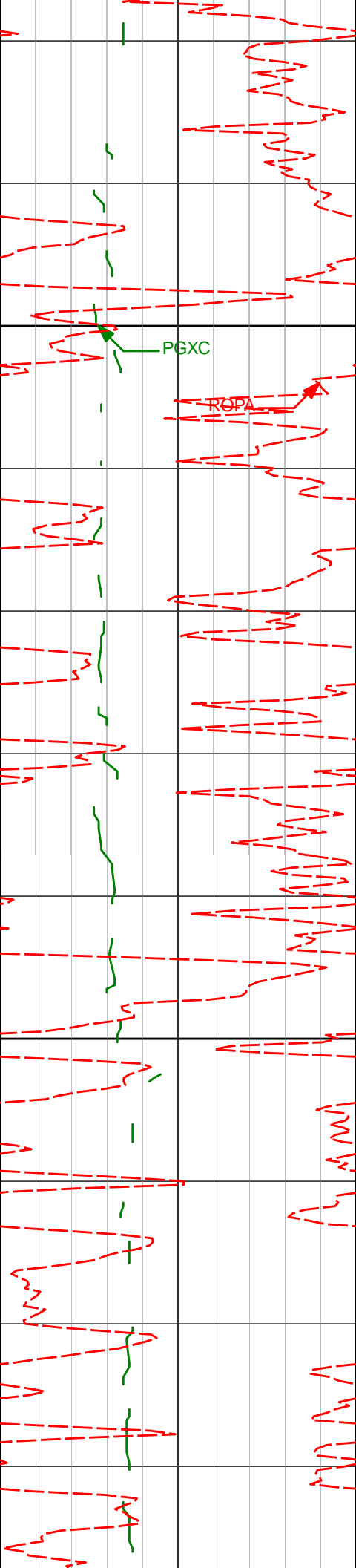
4939'

5.85°

14.37° 4915.09'

-262.72'

133.25°F



5000

5034'

5.66°

13.65°

5009.61'

-271.91'

133.25°F

5100

5129'

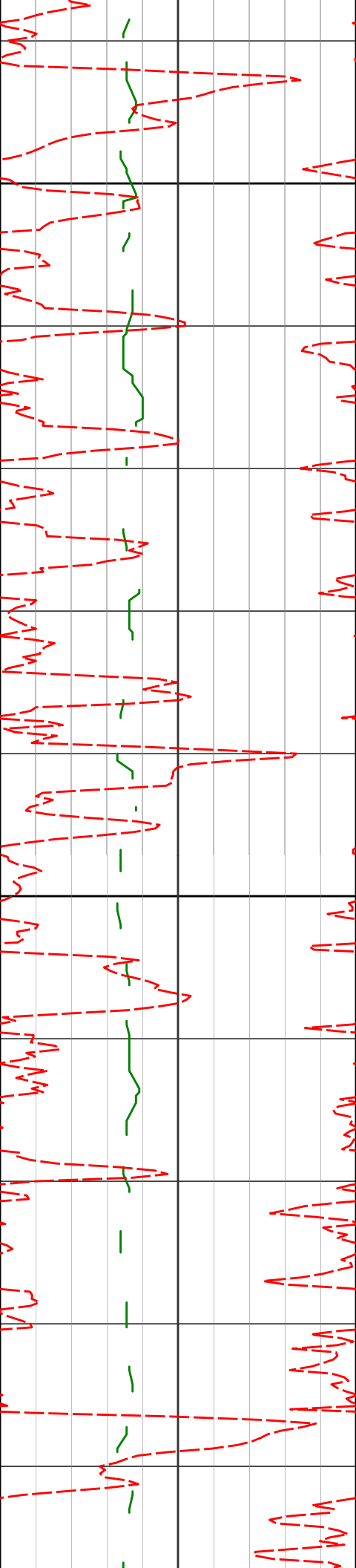
4.68°

11.65°

5104.22'

-280.22'

137.47°F



5200

5223'

3.80°

9.14° 5197.96'

-287.03'

137.47°F

5300

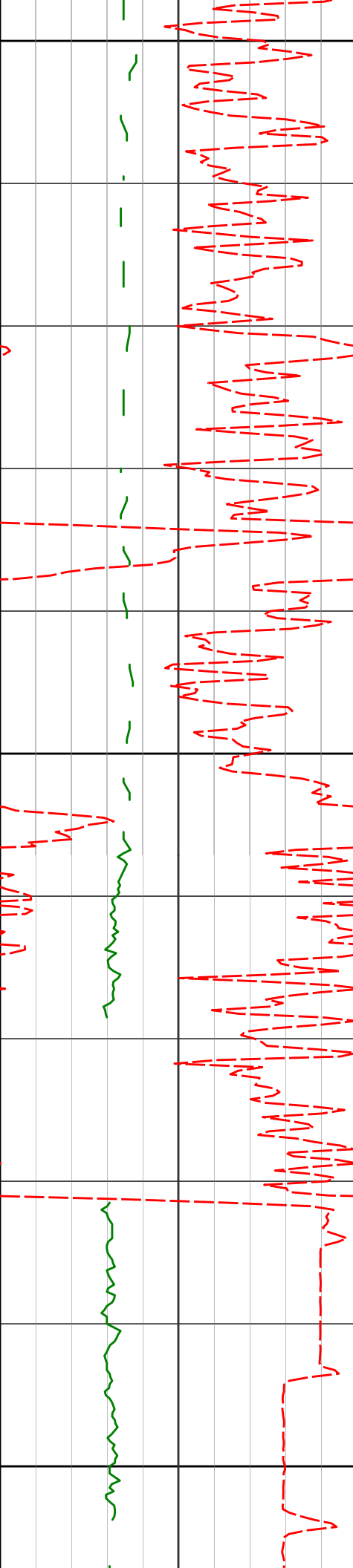
5318'

2.98°

8.11° 5292.80'

-292.56'

141.69°F



5400

5412'

2.36°

2.56° 5386.70'

-296.90'

5500

5507'

1.50°

0.90° 5481.64'

-300.09'

141.69°F

5600

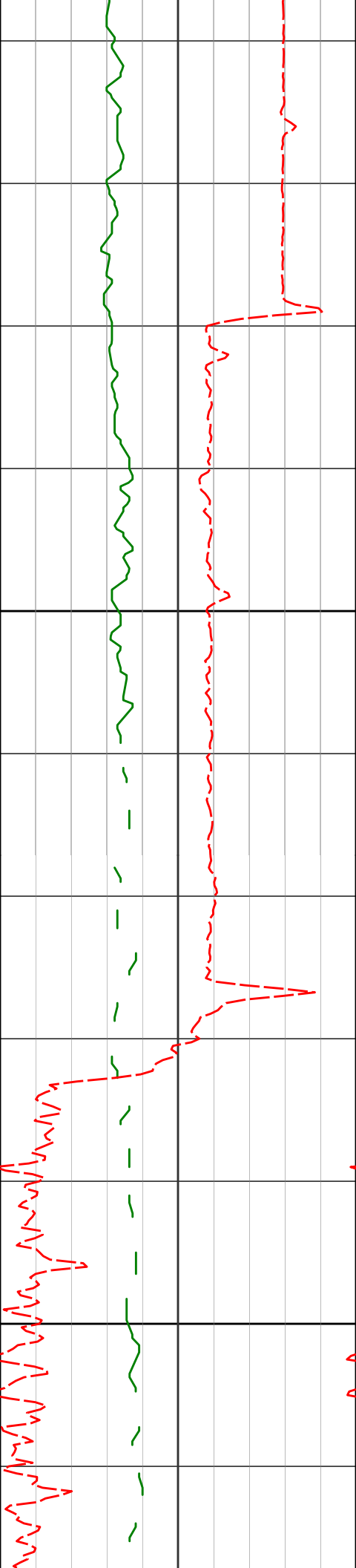
5602'

1.65°

3.76° 5576.60'

-302.70'

112.16°F



5700

5791'

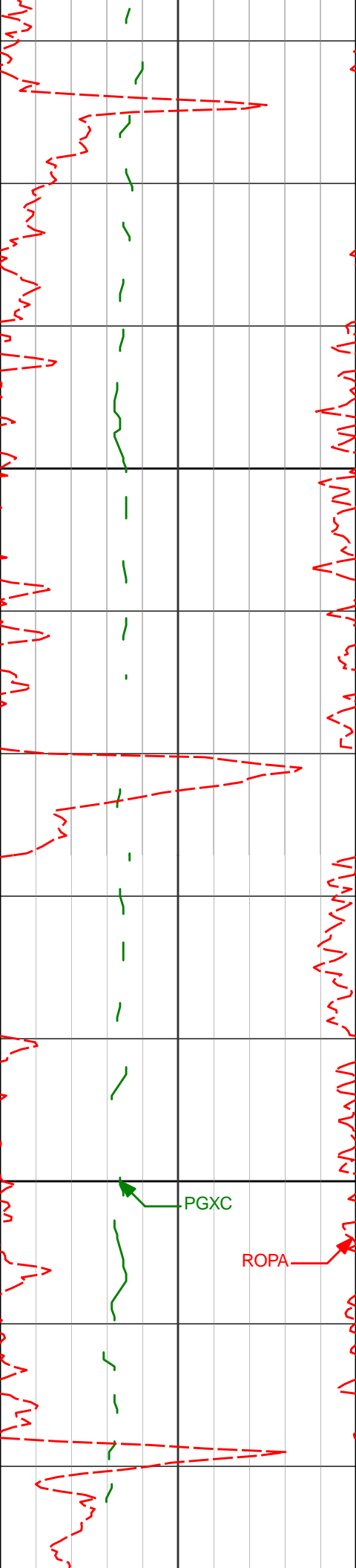
5800

1.26°

9.51° 5765.54'

-307.46'

124.81°F



5886'

0.83°

20.96° 5860.53'

-309.12'

133.25°F

5900

5981'

0.52°

46.03° 5955.52'

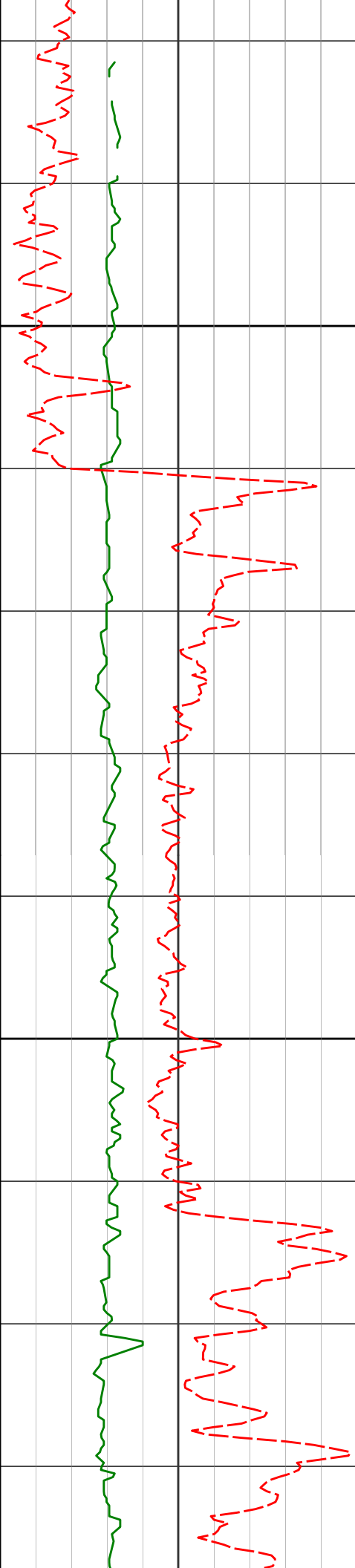
-310.06'

137.47°F

6000

PGXC

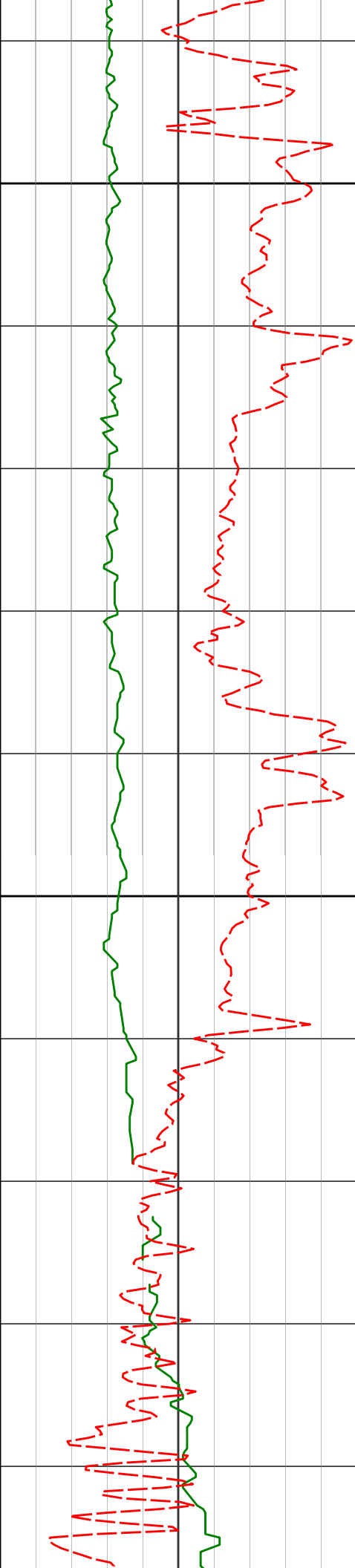
ROPA



6100

6200

6075'	0.76°	70.89°	6049.52'	-310.54'	141.69°F
6170'	5.02°	187.74°	6144.40'	-306.63'	141.69°F 141.69°F
6265'	10.08°	204.78°	6238.56'	-295.03'	145.91°F 145.91°F



6300

6400

6359'

6454'

14.35°

18.06°

193.50°

198.13°

6330.42'

6421.63'

-276.35'

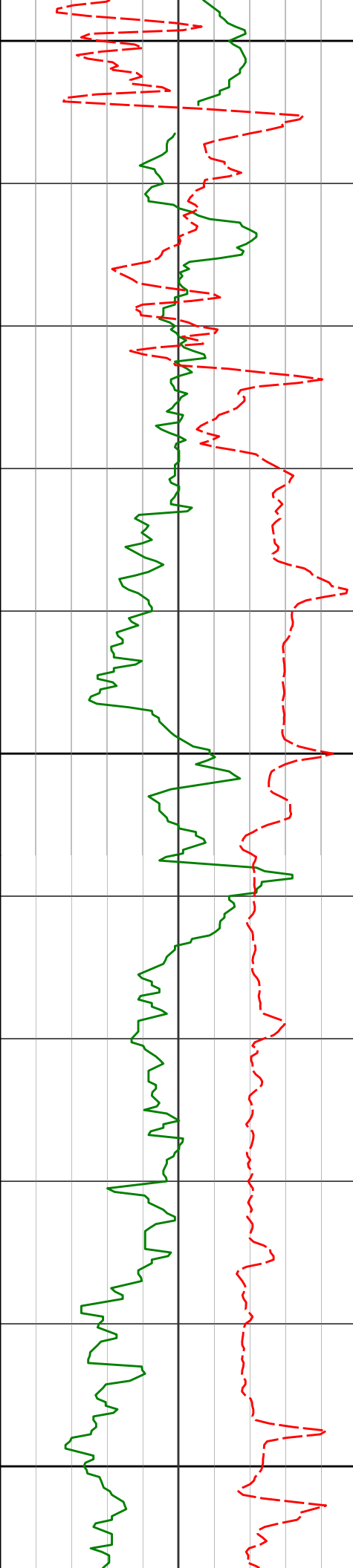
-251.05'

145.91°F

150.13°F

154.34°F

154.34°F



6500

6549'

19.20°

197.08°

6511.65'

-222.31'

Run 300

6600

6644'

30.02°

180.70°

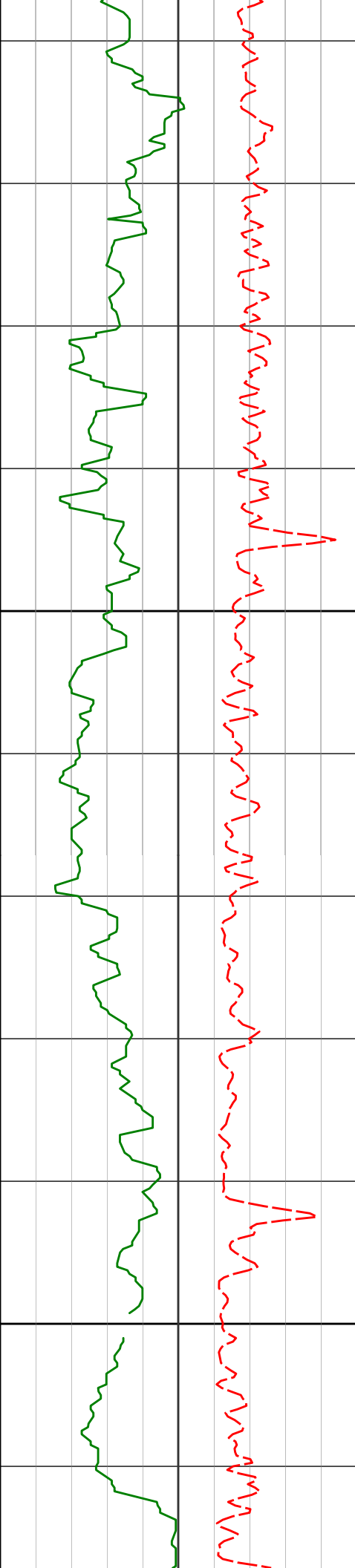
6597.99'

-183.56'

6700

154.34°F

145.91°F



6800

6900

6739'

44.34°

172.32°

6673.53'

-126.49'

150.13°F

6834'

63.04°

169.94°

6729.55'

-51.01'

154.34°F

6928'

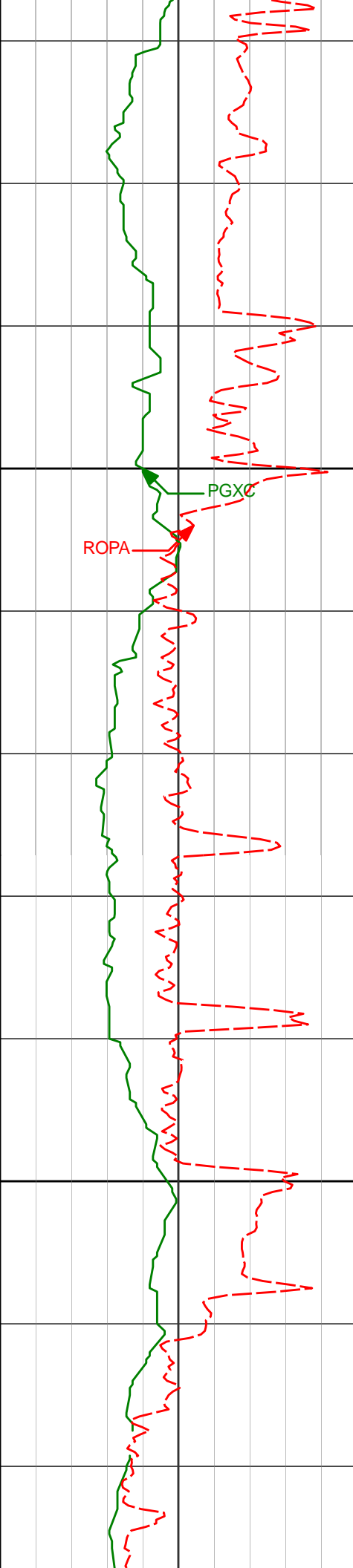
84.01°

170.18°

6756.06'

37.58'

158.56°F



7000
Run 400

7022'

87.91°

173.16° 6762.68'

130.58'

141.69°F

7100

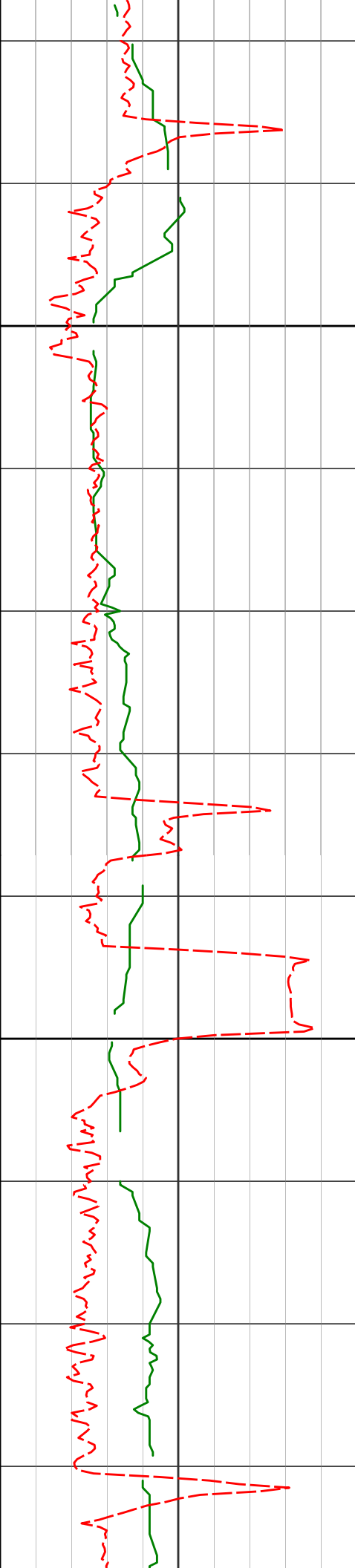
7117'

92.06°

176.34° 6762.71'

225.30'

141.69°F



7200

7300

7212'

92.40°

175.79° 6759.01'

320.11'

150.13°F

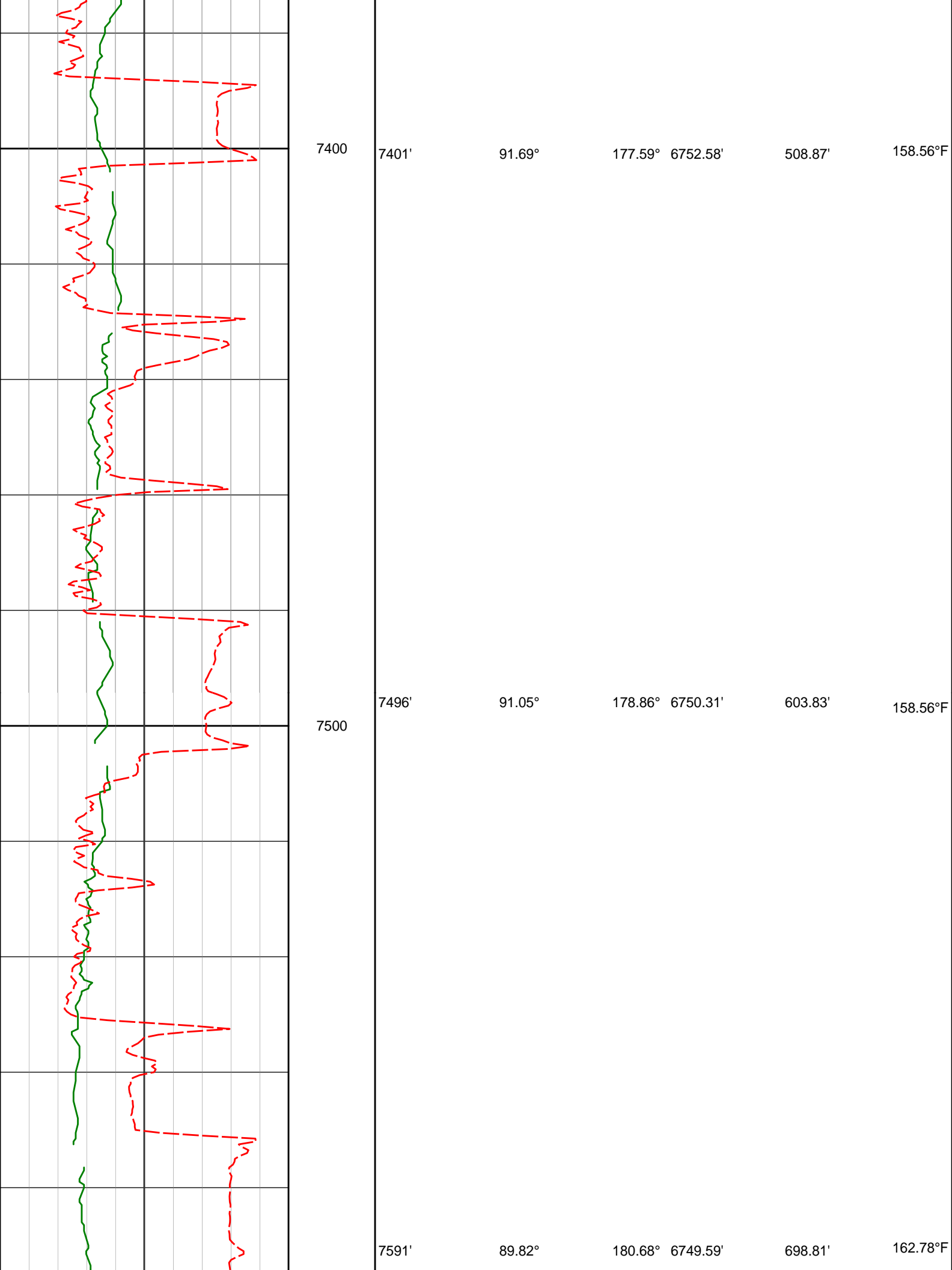
7307'

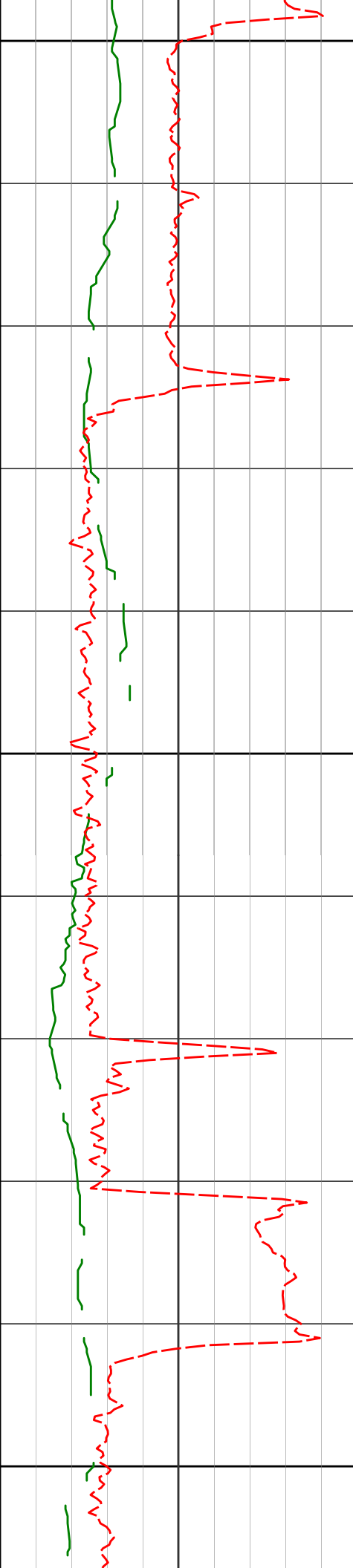
91.85°

176.80° 6755.48'

414.95'

154.34°F





7600

7700

7800

7685'

90.31°

179.72° 6749.49'

792.78'

167.00°F

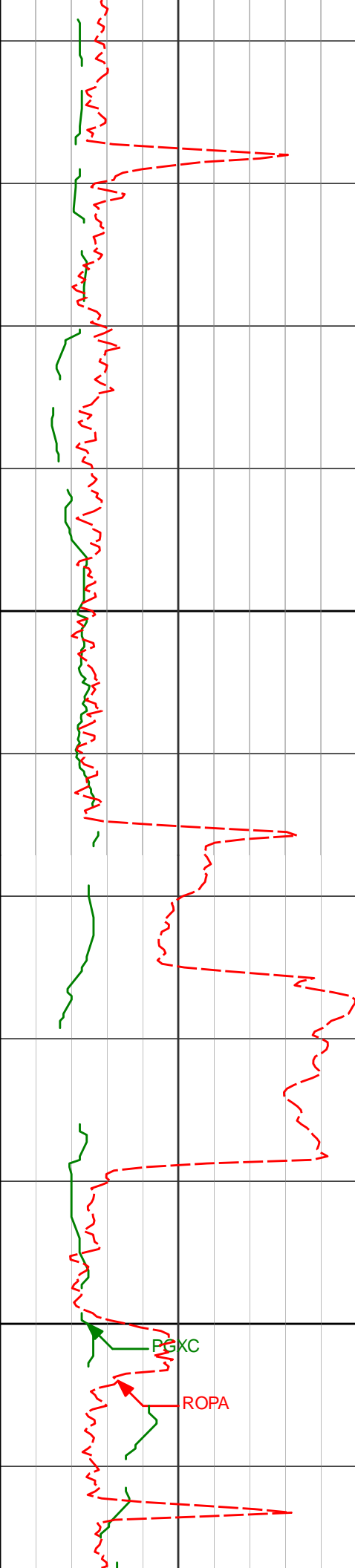
7780'

90.31°

180.75° 6748.98'

887.75'

167.00°F



7900

8000

7875'

90.80°

180.62° 6748.06'

982.70'

171.22°F

167.00°F

7969'

89.72°

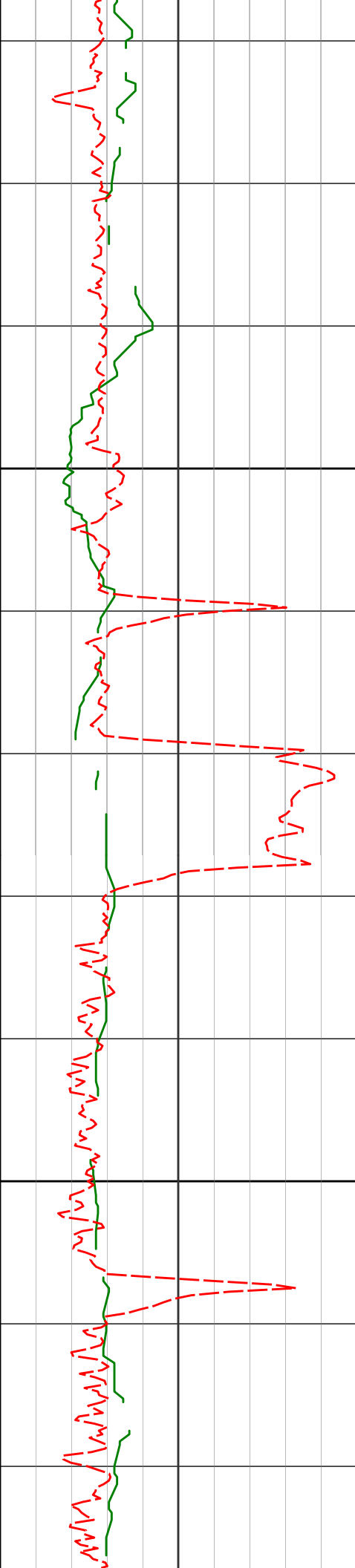
181.88° 6747.63'

1076.61'

167.00°F

PGXC

ROPA



8100

8200

8064'

89.91°

182.33° 6747.94'

1171.46'

8159'

89.26°

182.10° 6748.63'

1266.30'

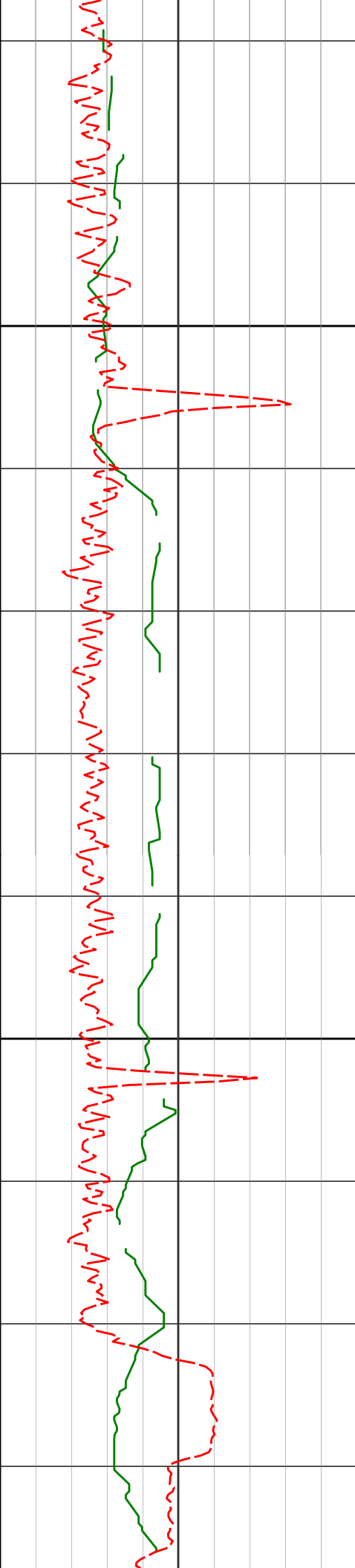
8254'

89.26°

182.49° 6749.85'

1361.12'

170.66°



8300

8348'

89.17°

181.05° 6751.14'

1454.98'

183.88°F

8400

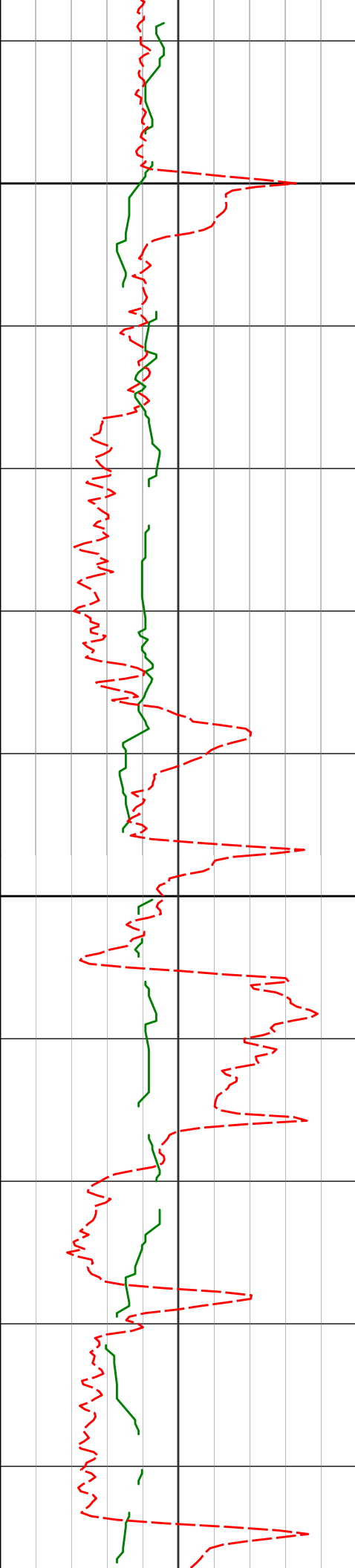
8443'

89.75°

180.71° 6752.04'

1549.92'

179.66°F



8500

8600

8538'

90.46°

180.34° 6751.86'

1644.88'

183.88°F

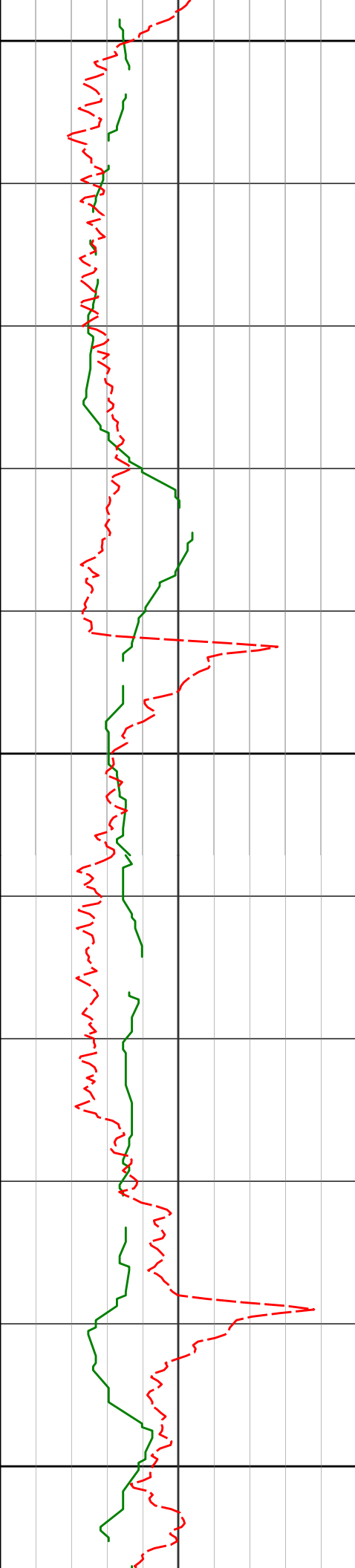
8632'

89.01°

180.68° 6752.29'

1738.84'

183.88°F



8700

8727'

89.63°

180.93° 6753.41'

1833.77'

188.09°F

8800

8822'

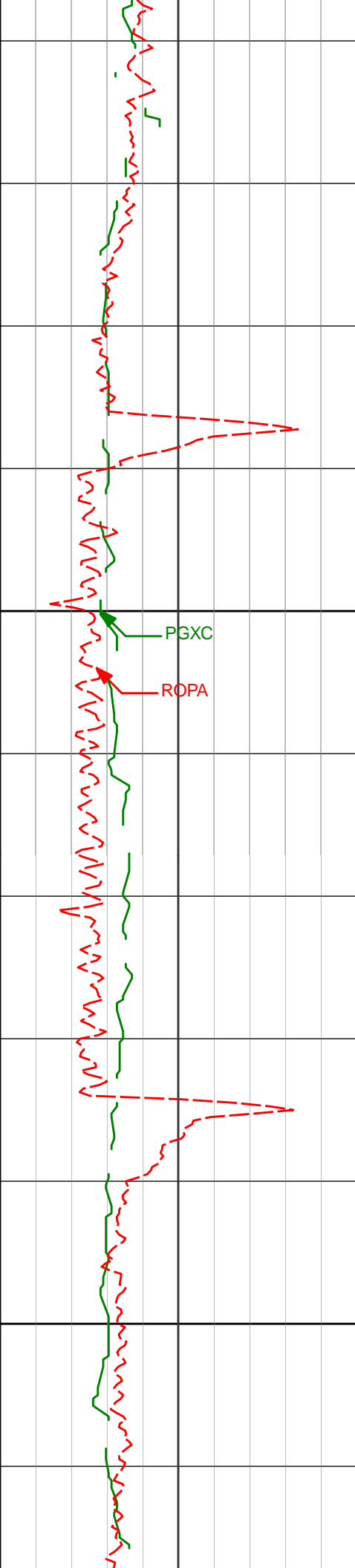
89.91°

180.48° 6753.80'

1928.72'

188.09°F

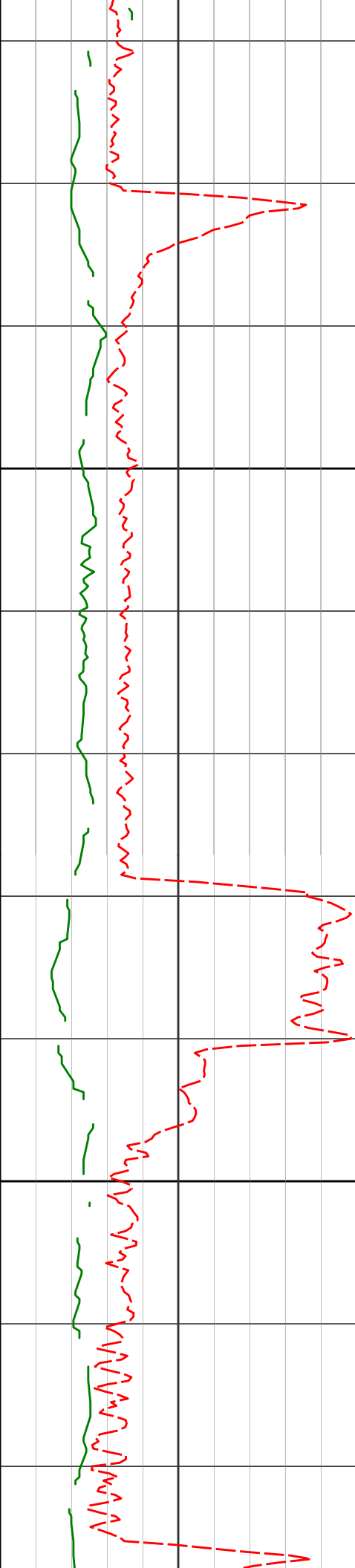
8900



9000

9100

8917'	89.82°	178.68°	6754.03'	2023.71'	192.31°F
9011'	89.63°	177.60°	6754.48'	2117.70'	192.31°F
9106'	90.22°	177.10°	6754.61'	2212.67'	196.53°F



9200

9201'

90.37°

176.73° 6754.12'

2307.61'

196.53°F

9300

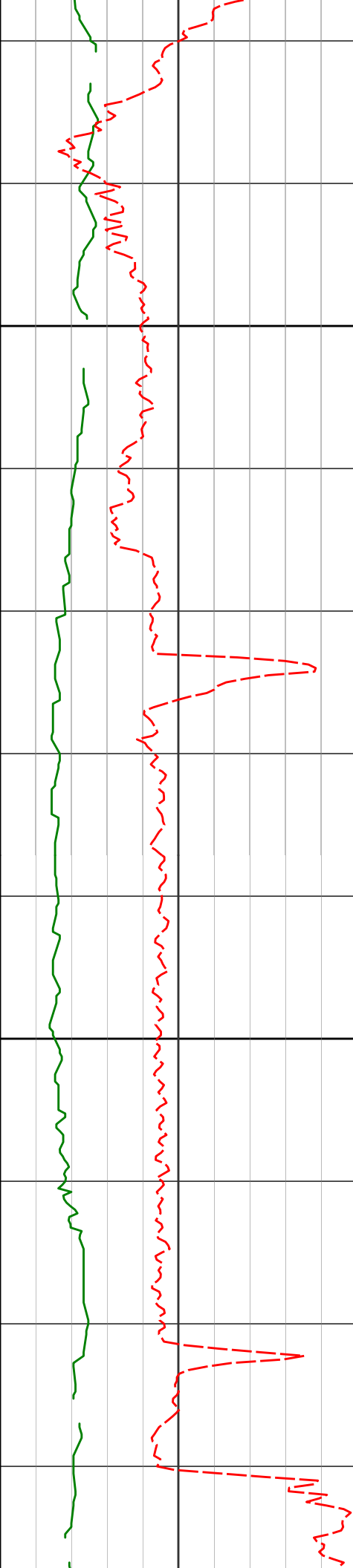
9296'

89.66°

178.33° 6754.10'

2402.18'

196.53°F



9390'

9400

9390'

90.18°

178.89° 6754.22'

2496.58'

200.75°F

9485'

9500

9485'

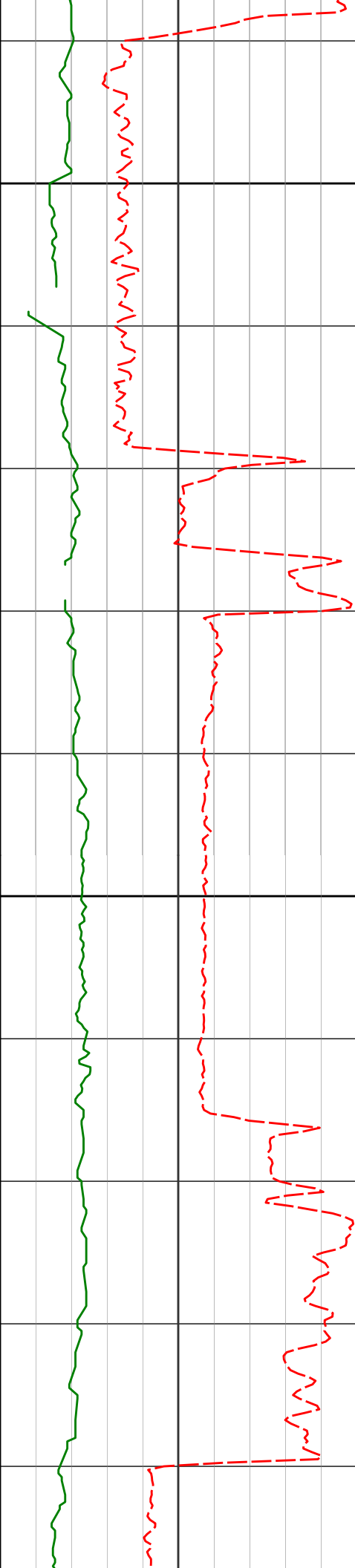
91.39°

179.21° 6752.92'

2591.57'

204.97°F

196.53°F



9600

9700

9580'

90.86°

178.48° 6751.06'

2686.55'

200.75°F

9674'

92.16°

179.29° 6748.58'

2780.52'

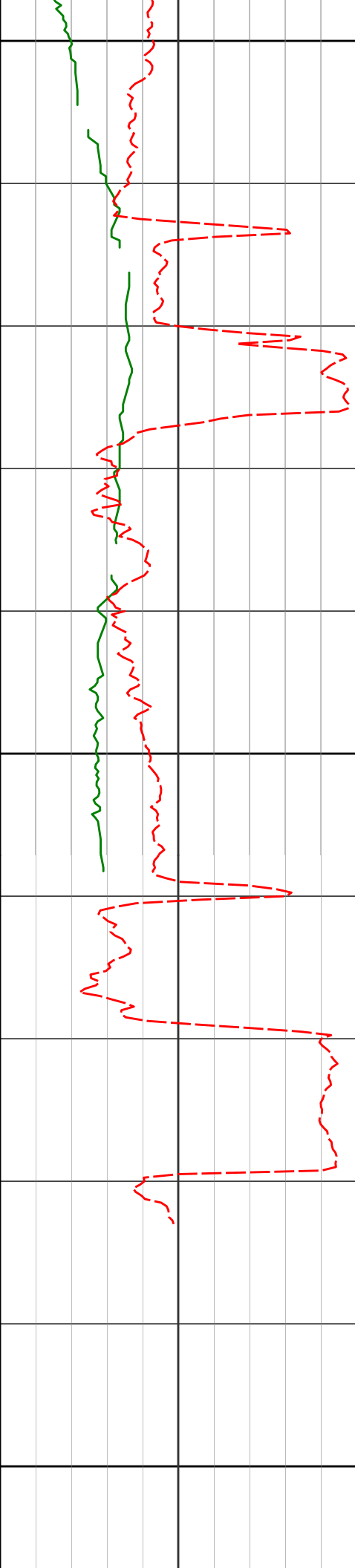
200.75°F

9769'

88.46°

178.22° 6748.07'

2875.50'



9800

9863'

88.15°

178.81° 6750.85'

2969.45'

200.75°F

9900

10000

[illegible]

4655.00	5.97	12.07	4632.36	237.88 N	50.31 E	-236.83	1.14
4750.00	4.68	12.10	4726.95	246.50 N	52.16 E	-245.41	1.36
4844.00	5.65	15.65	4820.57	254.70 N	54.21 E	-253.57	1.09
4939.00	5.85	14.37	4915.09	263.90 N	56.67 E	-262.72	0.25
5034.00	5.66	13.65	5009.61	273.14 N	58.98 E	-271.91	0.22
5129.00	4.68	11.65	5104.22	281.49 N	60.87 E	-280.22	1.04
5223.00	3.80	9.14	5197.96	288.32 N	62.14 E	-287.03	0.96
5318.00	2.98	8.11	5292.80	293.87 N	62.98 E	-292.56	0.87
5412.00	2.36	2.56	5386.70	298.22 N	63.41 E	-296.90	0.71
5507.00	1.50	0.90	5481.64	301.42 N	63.52 E	-300.09	0.90
5602.00	1.65	3.76	5576.60	304.03 N	63.63 E	-302.70	0.18
5791.00	1.26	9.51	5765.54	308.80 N	64.15 E	-307.46	0.22
5886.00	0.83	20.96	5860.53	310.47 N	64.57 E	-309.12	0.50
5981.00	0.52	46.03	5955.52	311.42 N	65.13 E	-310.06	0.44
6075.00	0.76	70.89	6049.52	311.92 N	66.03 E	-310.54	0.38
6170.00	5.02	187.74	6144.40	308.00 N	66.06 E	-306.63	5.69
6265.00	10.08	204.78	6238.56	296.33 N	62.02 E	-295.03	5.77
6359.00	14.35	193.50	6330.42	277.52 N	55.85 E	-276.35	5.19
6454.00	18.06	198.13	6421.63	252.06 N	48.51 E	-251.05	4.13
6549.00	19.20	197.08	6511.65	223.14 N	39.34 E	-222.31	1.25
6644.00	30.02	180.70	6597.99	184.28 N	34.44 E	-183.56	13.36
6739.00	44.34	172.32	6673.53	127.29 N	38.61 E	-126.49	15.96
6834.00	63.04	169.94	6729.55	52.02 N	50.55 E	-51.01	19.78
6928.00	84.01	170.18	6756.06	36.27 S	66.01 E	37.58	22.32
7022.00	87.91	173.16	6762.68	129.02 S	79.59 E	130.58	5.21
7117.00	92.06	176.34	6762.71	223.59 S	88.27 E	225.30	5.51
7212.00	92.40	175.79	6759.01	318.29 S	94.78 E	320.11	0.68
7307.00	91.85	176.80	6755.48	413.03 S	100.92 E	414.95	1.20
7401.00	91.69	177.59	6752.58	506.87 S	105.52 E	508.87	0.86
7496.00	91.05	178.86	6750.31	601.79 S	108.46 E	603.83	1.50
7591.00	89.82	180.68	6749.59	696.78 S	108.85 E	698.81	2.31
7685.00	90.31	179.72	6749.49	790.78 S	108.52 E	792.78	1.14
7780.00	90.31	180.75	6748.98	885.78 S	108.13 E	887.75	1.08
7875.00	90.80	180.62	6748.06	980.77 S	106.99 E	982.70	0.54
7969.00	89.72	181.88	6747.63	1074.74 S	104.94 E	1076.61	1.77
8064.00	89.91	182.33	6747.94	1169.67 S	101.45 E	1171.46	0.51
8159.00	89.26	182.10	6748.63	1264.60 S	97.77 E	1266.30	0.72
8254.00	89.26	182.49	6749.85	1359.52 S	93.96 E	1361.12	0.41
8348.00	89.17	181.05	6751.14	1453.46 S	91.06 E	1454.98	1.54
8443.00	89.75	180.71	6752.04	1548.44 S	89.61 E	1549.92	0.71
8538.00	90.46	180.34	6751.86	1643.44 S	88.74 E	1644.88	0.84
8632.00	89.01	180.68	6752.29	1737.43 S	87.90 E	1738.84	1.58
8727.00	89.63	180.93	6753.41	1832.42 S	86.56 E	1833.77	0.70
8822.00	89.91	180.48	6753.80	1927.41 S	85.38 E	1928.72	0.56
8917.00	89.82	178.68	6754.03	2022.40 S	86.08 E	2023.71	1.90
9011.00	89.63	177.60	6754.48	2116.35 S	89.13 E	2117.70	1.16
9106.00	90.22	177.10	6754.61	2211.25 S	93.52 E	2212.67	0.81
9201.00	90.37	176.73	6754.12	2306.11 S	98.64 E	2307.61	0.41
9295.60	89.66	178.33	6754.10	2400.61 S	102.71 E	2402.18	1.84
9390.00	90.18	178.89	6754.22	2494.99 S	105.00 E	2496.58	0.82
9485.00	91.39	179.21	6752.92	2589.96 S	106.58 E	2591.57	1.31
9580.00	90.86	178.48	6751.06	2684.92 S	108.49 E	2686.55	0.94
9674.00	92.16	179.29	6748.58	2778.87 S	110.32 E	2780.52	1.62
9769.00	88.46	178.22	6748.07	2873.83 S	112.39 E	2875.50	4.05
9863.00	88.15	178.81	6750.85	2967.76 S	114.82 E	2969.45	0.71

CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 178.86 DEGREES (GRID)
A TOTAL CORRECTION OF 7.56 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 9863.00 FEET
IS 2969.98 FEET ALONG 177.78 DEGREES (GRID)

Final survey is a straight line projection to TD.