

DC - Pressure Case Directional
PCGK - Pressure Case Gamma



1 : 240

[illegible]

WELL INFORMATION

MWD Run Number	100	200	300		
Date run completed	23-Jun-13	25-Jun-13	28-Jun-13		
Rig Bit Number	2	3	4		
Bit Size (in)	8.750	8.750	6.125		
Tool Nominal OD (in)	6.750	6.750	8.000		
Log Start Depth (TVD, ft)	636.96	5,950.21	6,718.01		
Log End Depth (TVD, ft)	5,950.21	6,718.01	6,730.78		
Drill or Wipe	Drill	Drill	Drill		
Drill/Wipe Start Date and Time	22-Jun-13 22:30	23-Jun-13 23:45	26-Jun-13 05:00		
Drill/Wipe End Date and Time	23-Jun-13 15:00	24-Jun-13 20:00	28-Jun-13 01:30		
Min Inc (deg) @ Depth (TVD, ft)	.18 @ 5,541.23	1.02 @ 6,009.20	84.11 @ 6,722.56		
Max Inc (deg) @ Depth (TVD, ft)	11.34 @ 3,078.89	81.07 @ 6,710.31	92.16 @ 6,734.59		
Bit TFA(in2) / Bit Type	.78 / PDC	.86 / PDC	.46 / PDC		
Flow Rate (gpm)	578.31	538.63	270.00		
Max AV (fpm) / CV (fpm) @ MWD	477.0 / 477.0	432.9 / 432.9	529.2 / 529.2		
Fluid Type	Native/Spud Mud	Fresh Water Gel	Fresh Water Gel		
Density (ppg) / Viscosity (spqt)	9.15 / 29.00	10.85 / 39.00	9.70 / 35.00		
Filtrate CL (ppm)	2,600.00	2,600.00	22.00		
pH / Fluid Loss (mptm)	8.60 / N/A	9.80 / N/A	10.20 / N/A		
PV (cP) / YP (lbf2)	3 / 3.00	12 / 10.00	6 / 6.00		
% Solids / % Sand	5.1 / 0.30	11.40 / 0.50	6.70 / 0.50		
% Oil / Oil:Water Ratio	N/A / N/A	N/A / N/A	N/A / N/A		
Rm @ Measured Temp (degF)	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		
Rmc @ Measured Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A		
Max Tool Temp (deg F) @ 100 ft	151.00 / BGM	127.00 / BGM	210.40 / BGM		

Max Tool Temp (degF) / Source	154.30 / PCM	167.00 / PCM	213.40 / PCM		
Rm @ Max Tool Temp (degF)	N/A @ N/A	N/A @ N/A	N/A @ N/A		
Lead MWD Engineer	Osahon Igunbor	Osahon Igunbor	Osahon Igunbor		
Customer Representative	Jeremy Stolz	Jeremy Stolz	Jeremy Stolz		

SENSOR INFORMATION

Downhole Processor Information

Tool Type	PCM	PCM	PCM		
Software Version	5.84	5.84	5.84		
Sub Serial Number	11254959	11254959	11734854		
Insert Serial Number	11400904	11400904	11145581		
Date and Time Initialized	22-Jun-13 11:48	22-Jun-13 11:48	25-Jun-13 15:33		
Date and Time Read	25-Jun-13 10:11	25-Jun-13 10:05	28-Jun-13 12:54		
ECMB SW Version	N/A	N/A	N/A		

Directional Sensor Information

Tool Type	PCDC	PCDC	PCDC		
Distance From Bit (ft)	56.00	55.00	67.00		
Software Version	6.21	6.21	6.21		
Sub Serial Number	11254959	11254959	11734854		
Sonde Serial Number	11833222	11833222	11833052		
Sensor ID Number	N/A	N/A	N/A		
Toolface Offset (deg)	27.73	105.41	133.11		

Gamma Ray Sensor Information

Tool Type	PCG	PCG	PCG		
Distance From Bit (ft)	49.66	48.59	59.90		
Recorded Sample Period (sec)	10	10	10		
Software Version	8.15	8.15	8.15		
Sub Serial Number	11254959	11254959	11734854		
Insert/Sonde Serial Number	11579834	11579834	11579768		

REMARKS

1. All depths are measured depths and are calibrated to the driller' pipe tally and are measured from the drill floor.
2. No depth corrections have been made for pipe stretch or compression.
3. All data presented is recorded (memory data) unless otherwise stated.
4. The Following smoothing parameters have been applied to the data"

PGRC (Gamma Ray):
 Interval Resolution: 0.5 feet
 Coercion Distance: 0.6 feet
 Gap Fill: 3.0 feet

ROPA (Rate of Penetration):
 Interval Resolution: 0.5 feet
 Coercion Distance: 1.2 feet

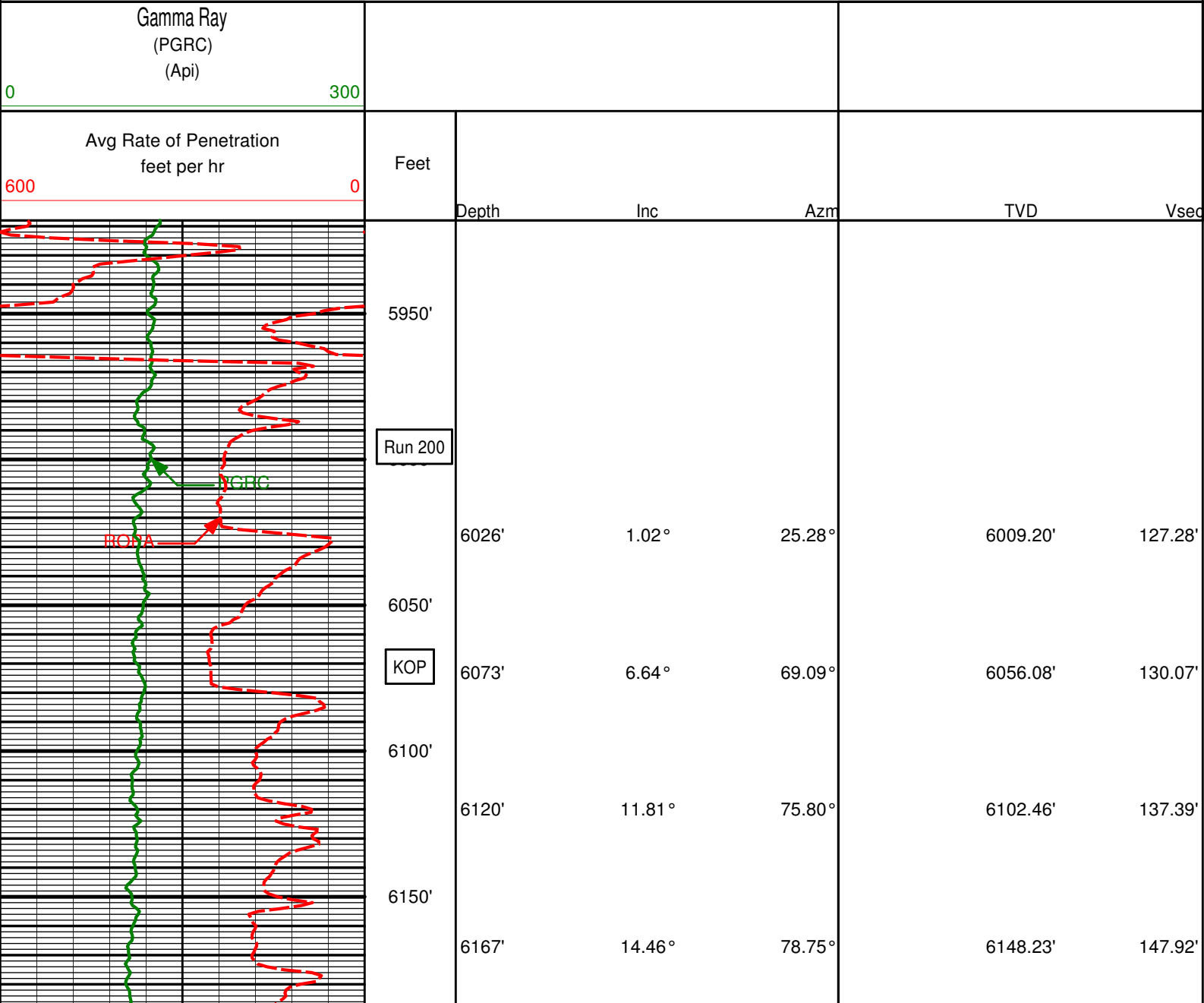
WARRANTY

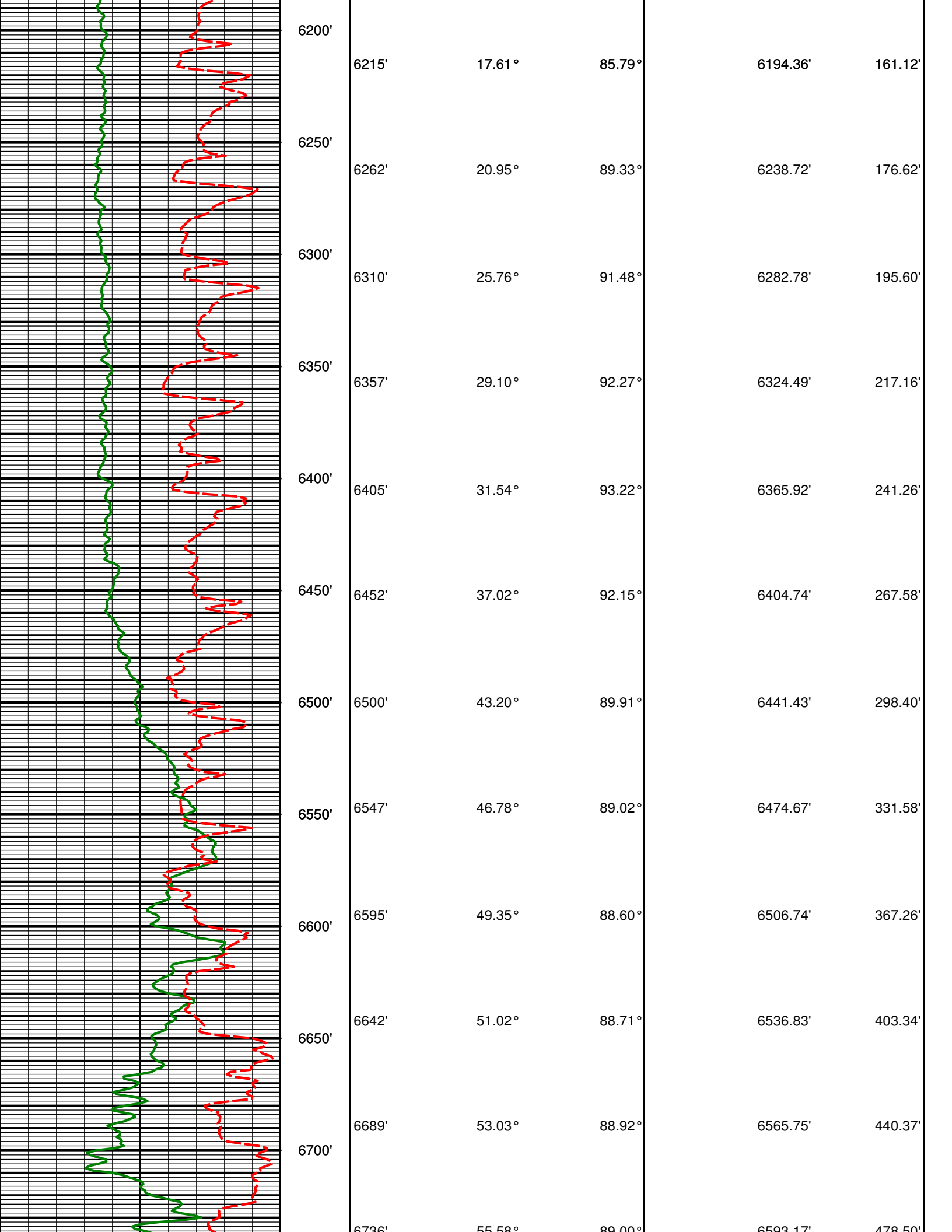
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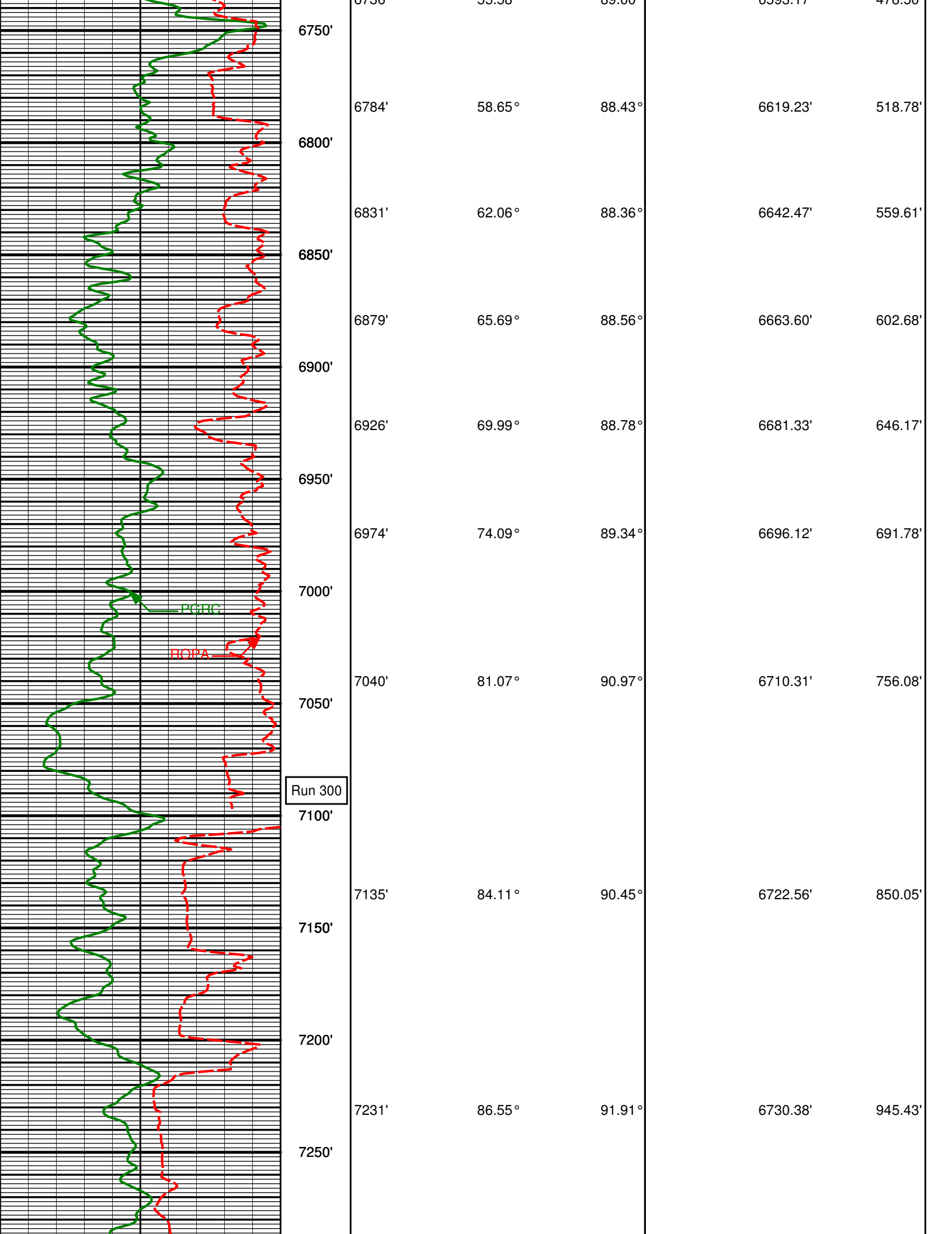
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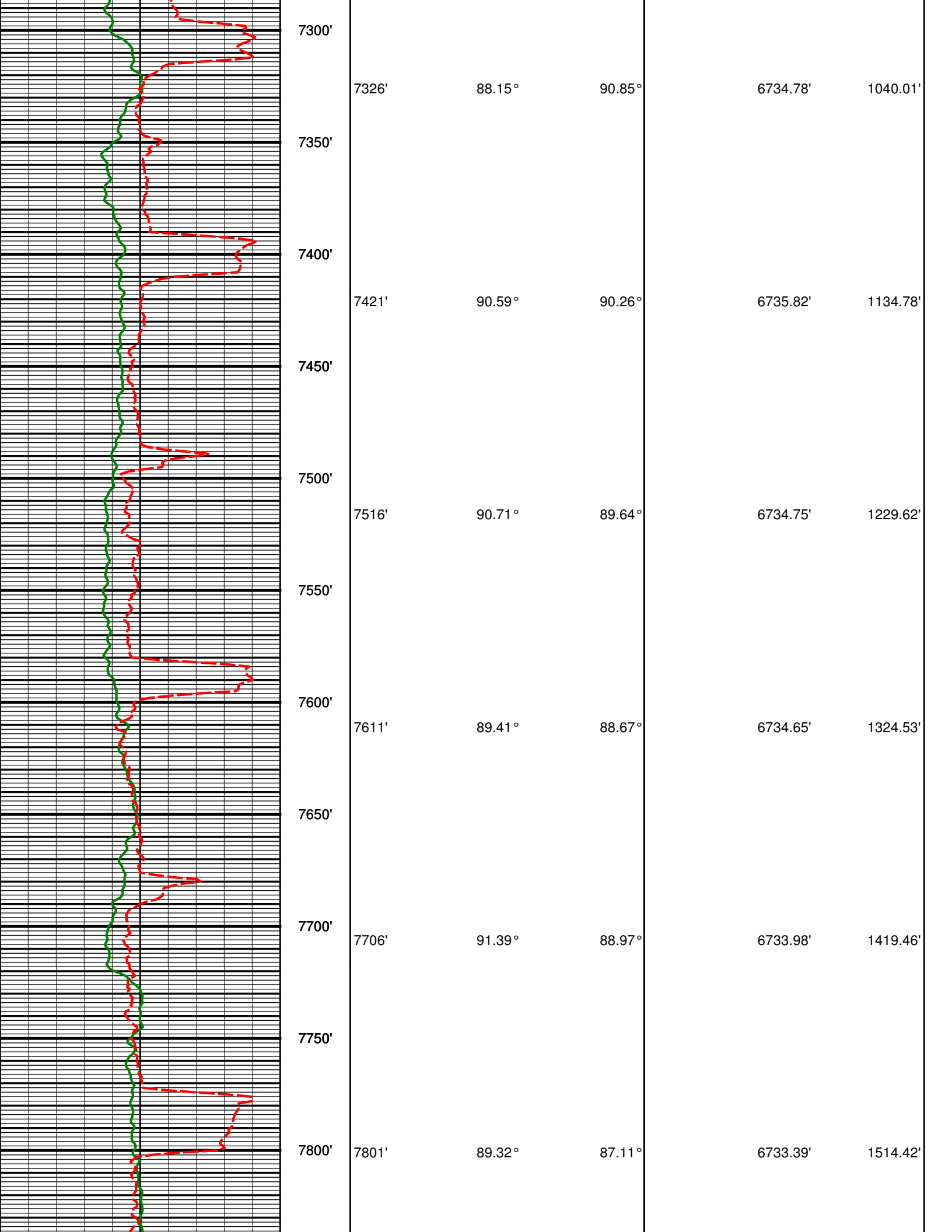
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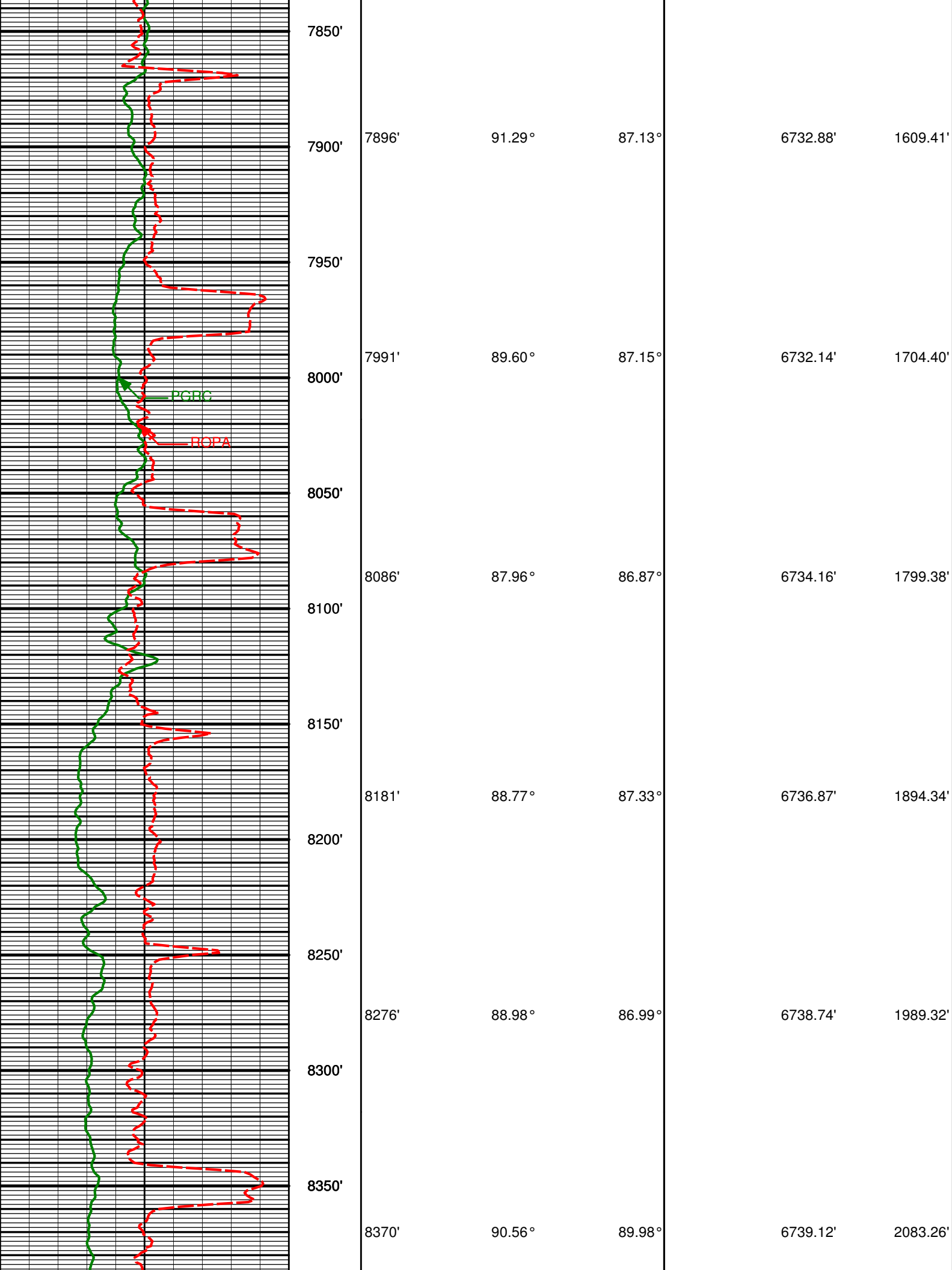
MD Detail Log 1:600

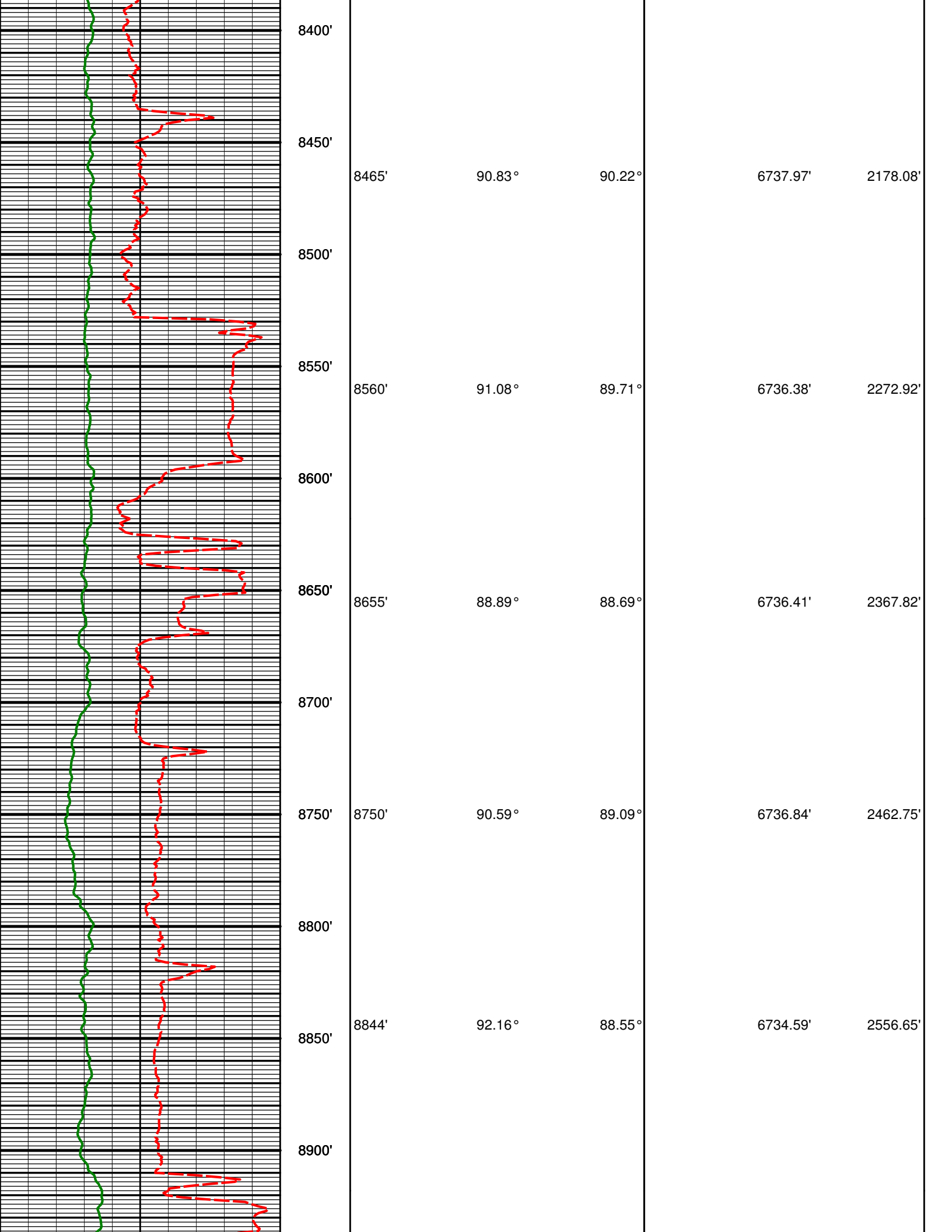


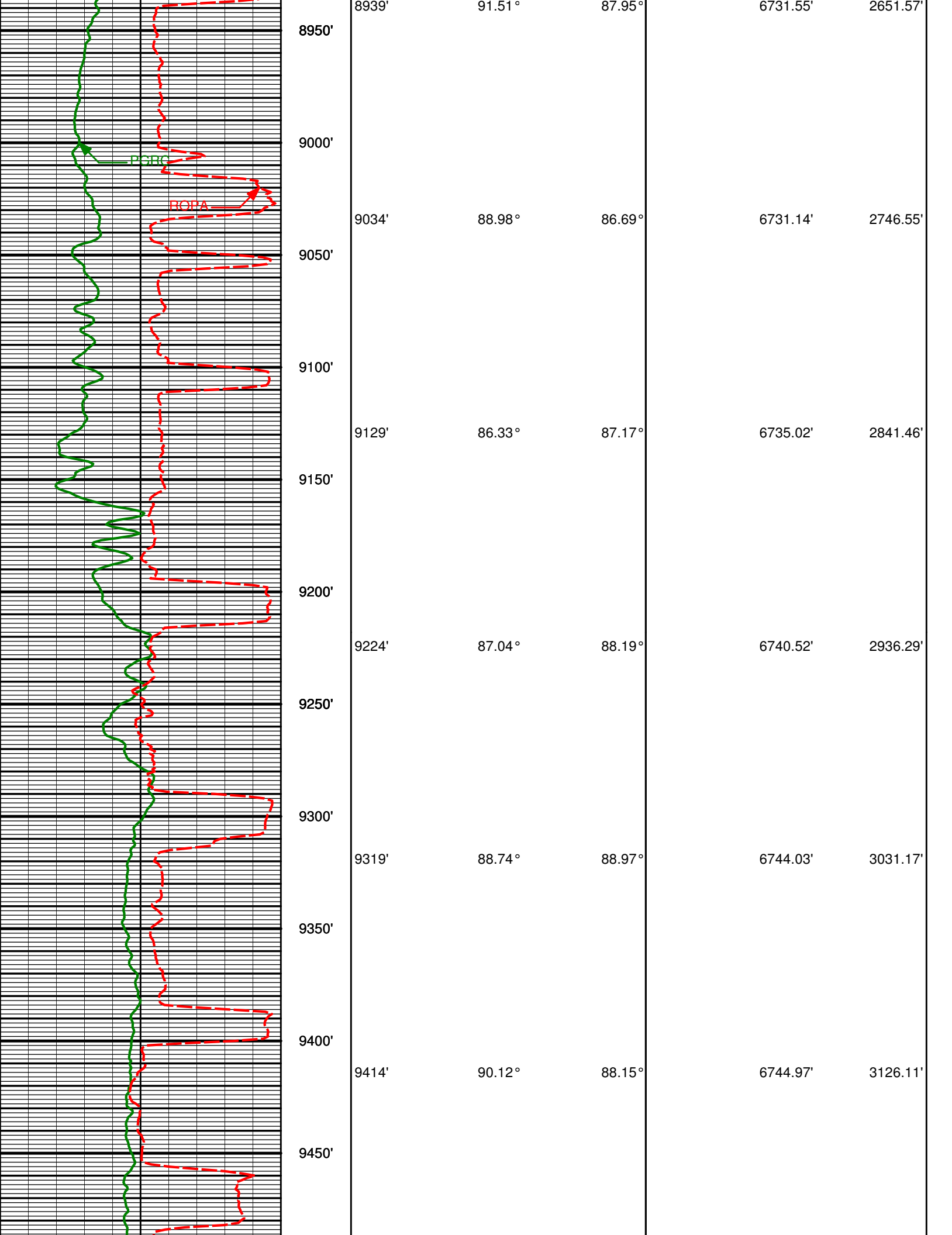


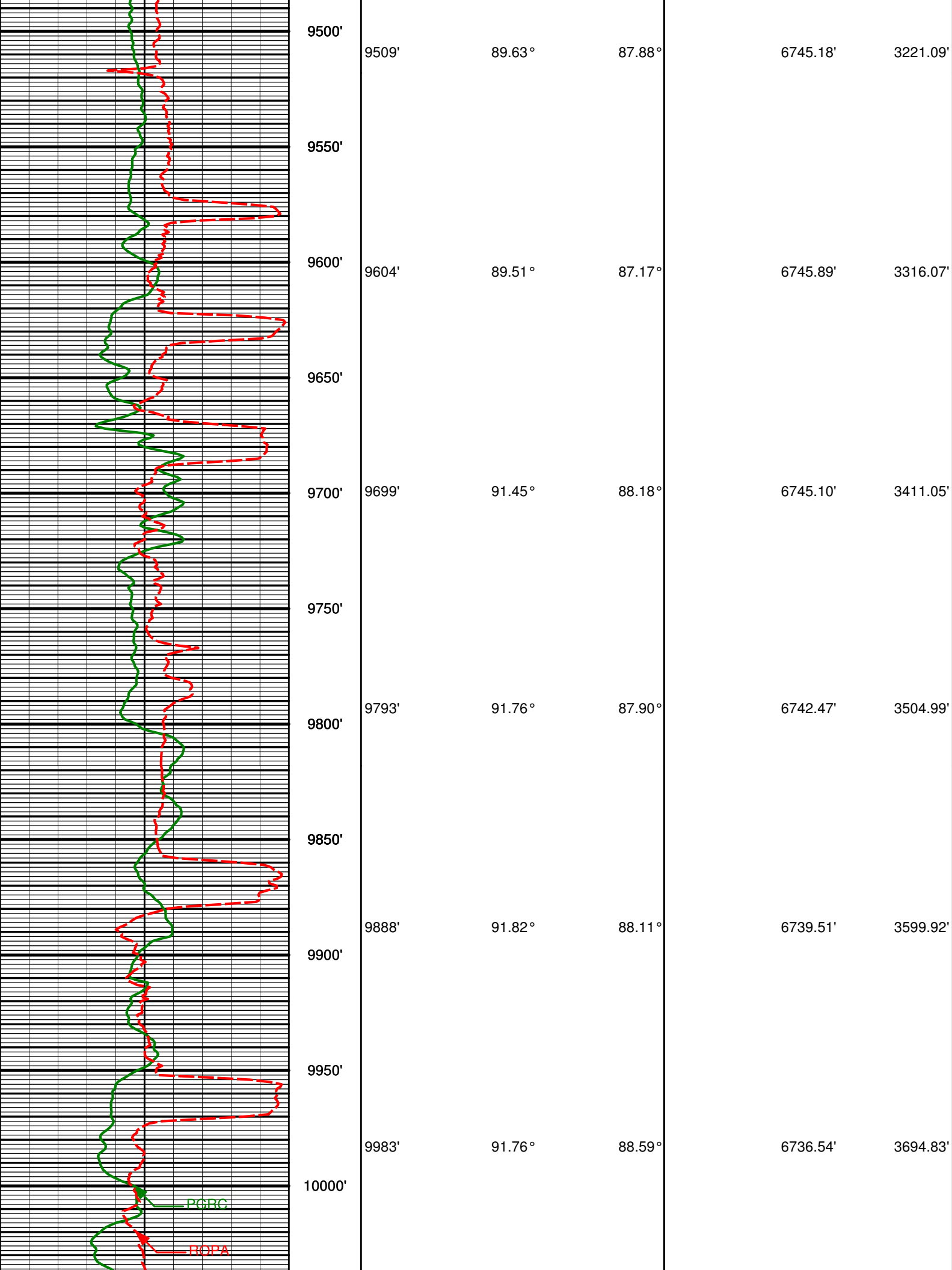


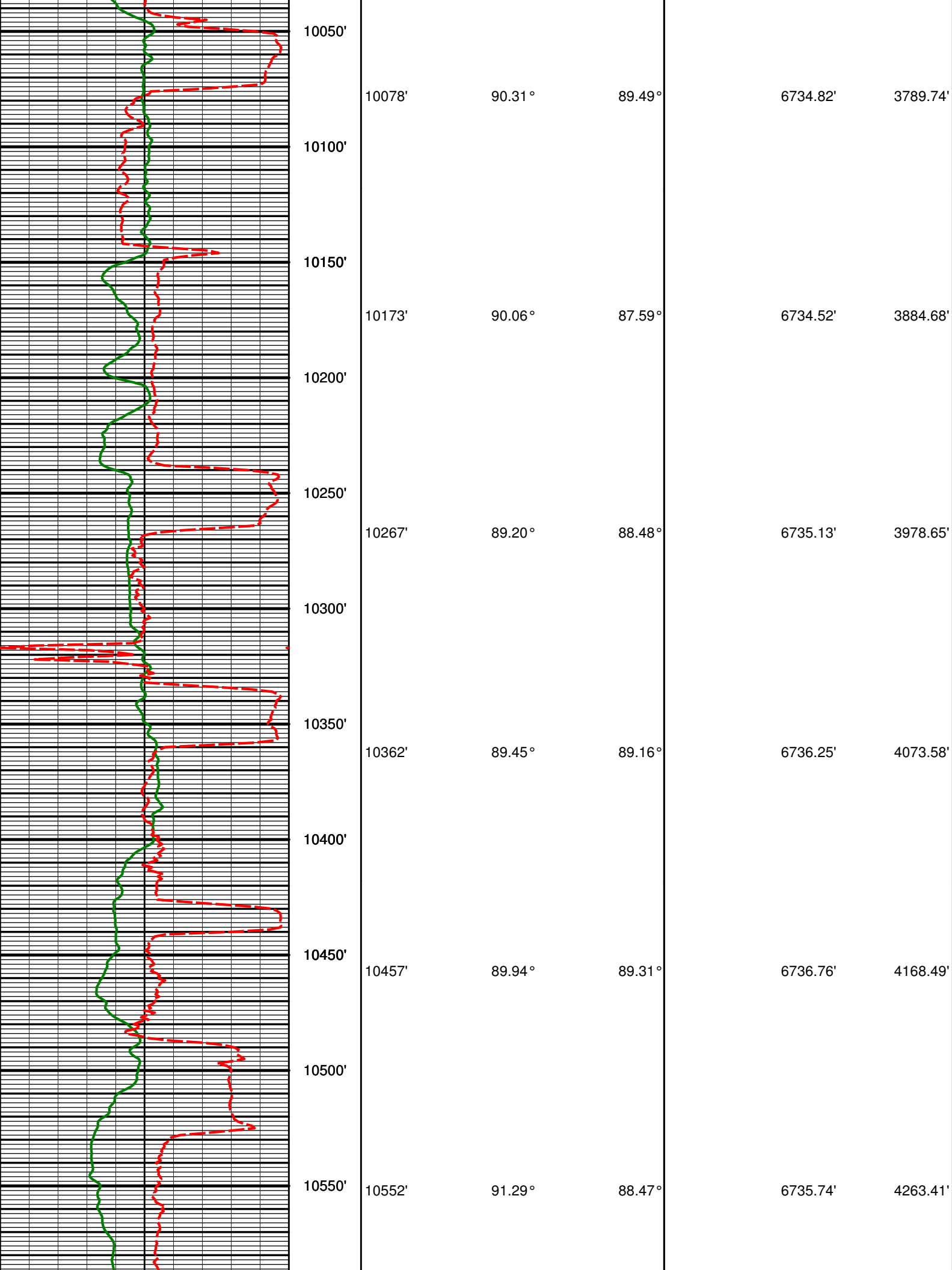


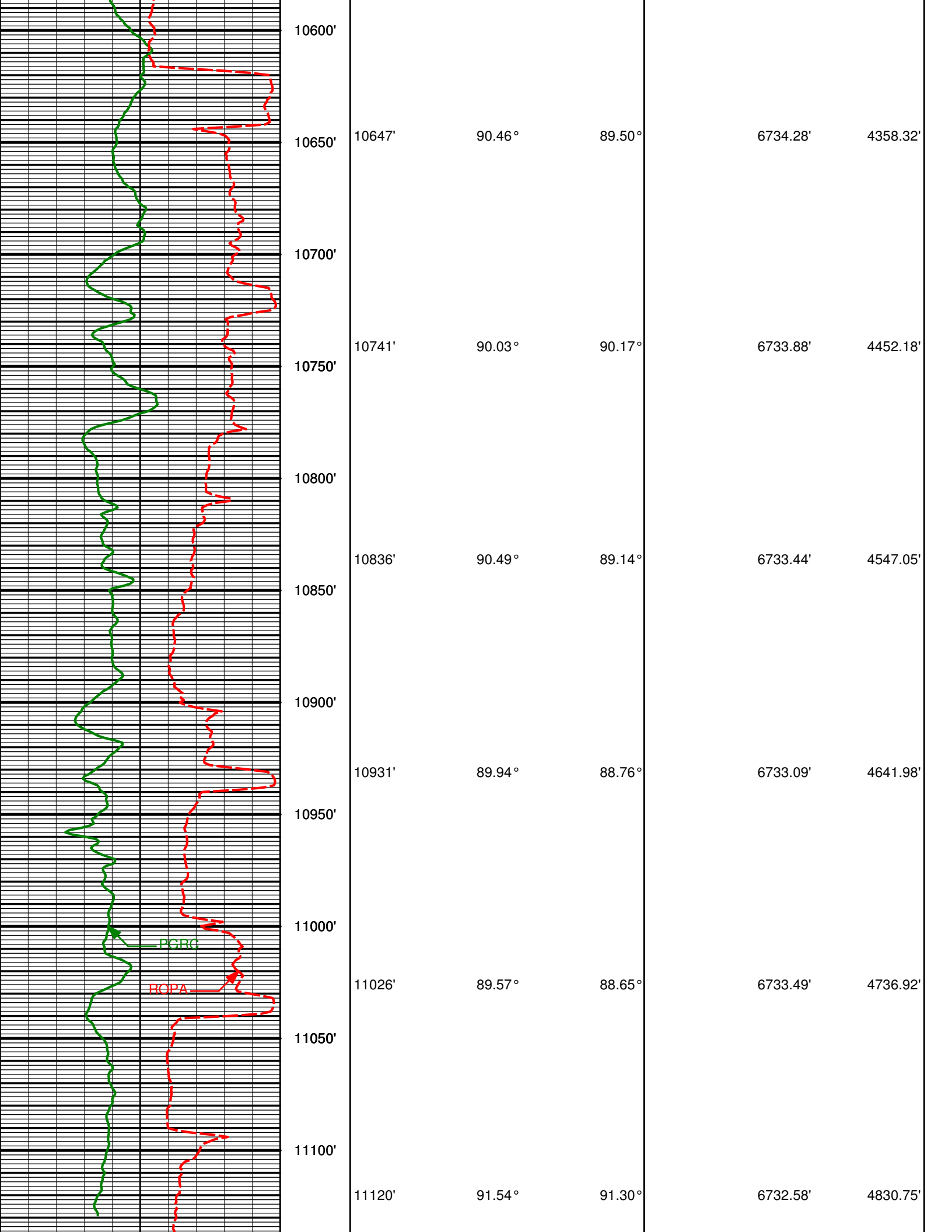


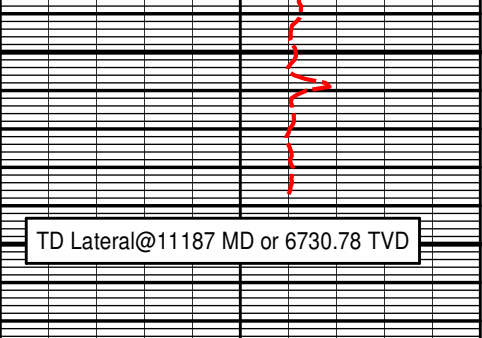










	11150'				
	11200'	11187'	91.54°	91.30°	6730.78' 4897.51'

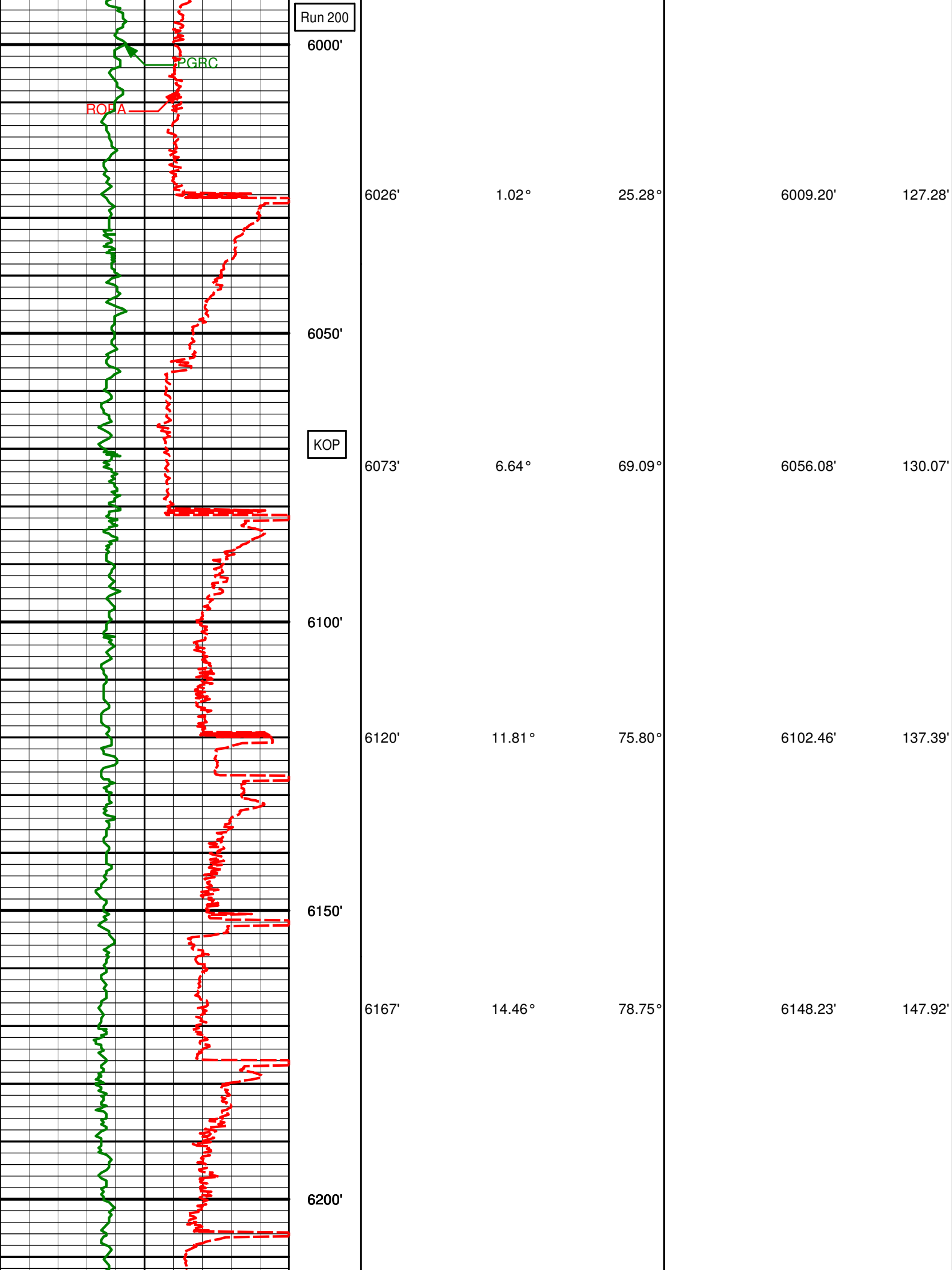
TD Lateral@11187 MD or 6730.78 TVD

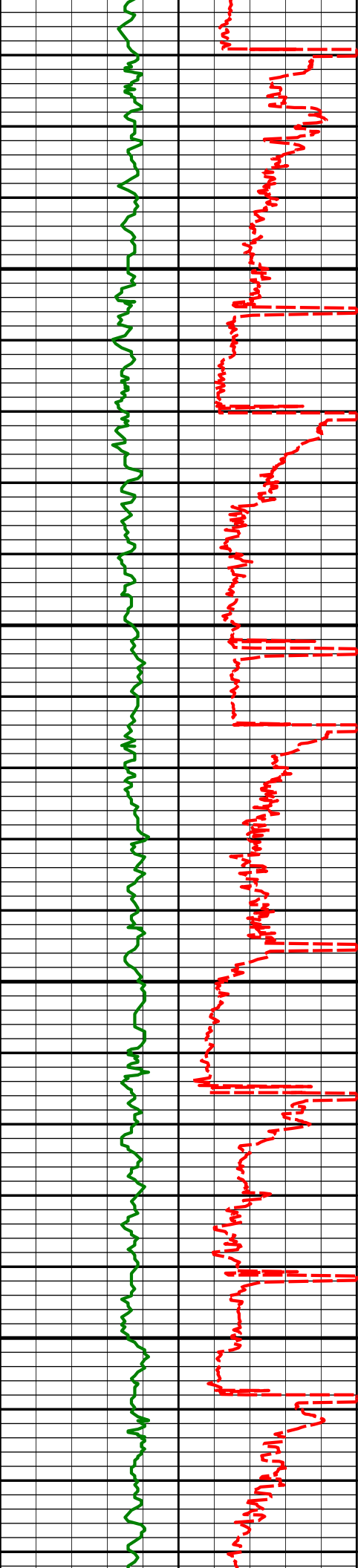
Avg Rate of Penetration feet per hr <div>6000</div>	Feet				
		Depth	Inc	Azm	TVD Vsec
Gamma Ray (PGRC) (Api) <div>0300</div>					

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MD Detail Log 1:240

Gamma Ray (PGRC) (Api) <div>0300</div>					
Avg Rate of Penetration feet per hr <div>6000</div>	Feet				
		Depth	Inc	Azm	TVD Vsec
	5950'				





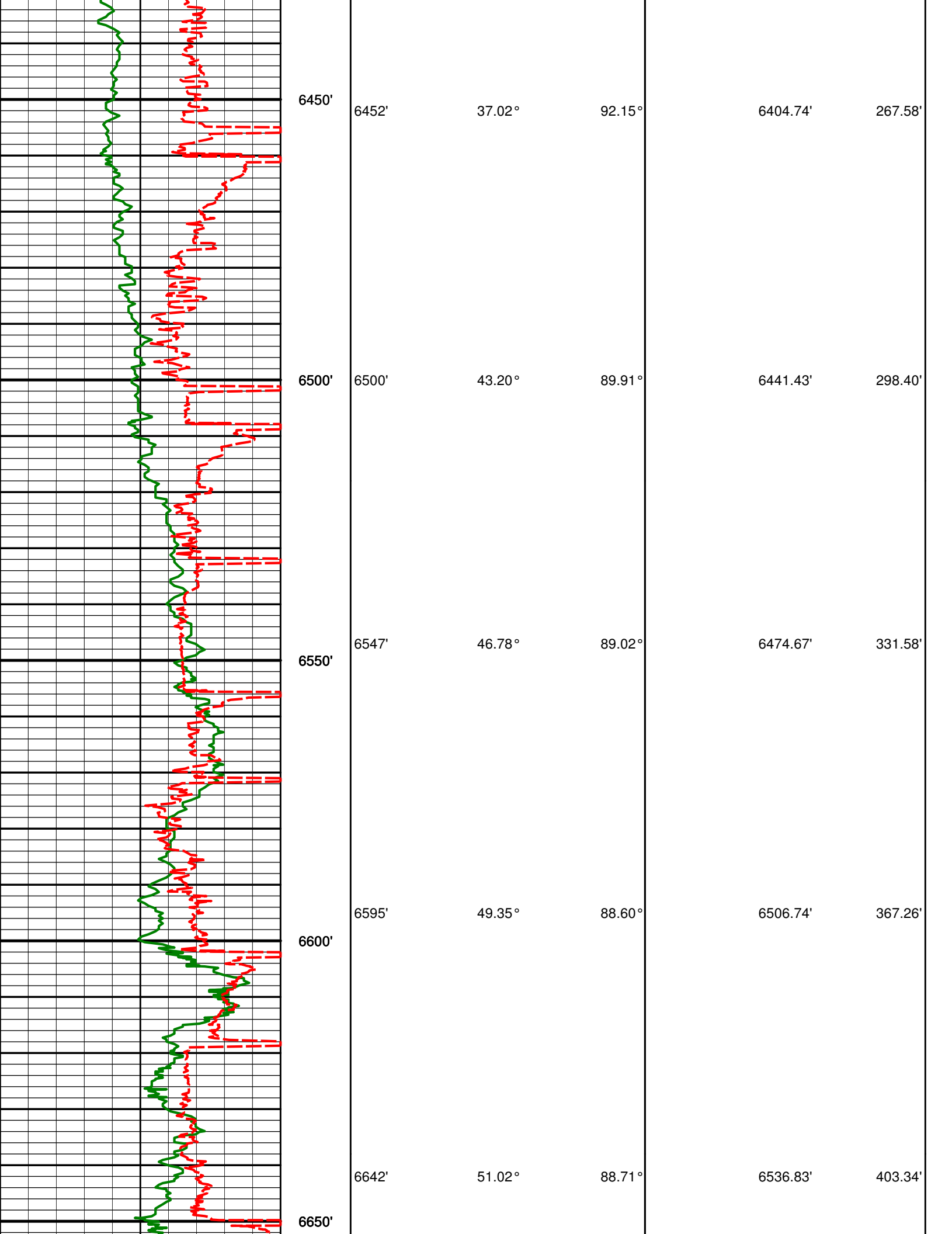
6250'

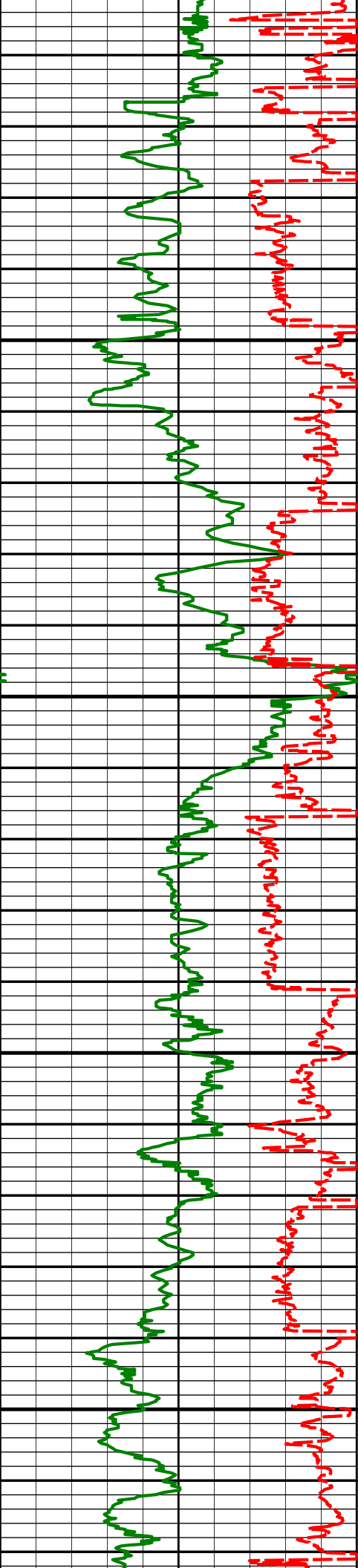
6300'

6350'

6400'

6215'	17.61°	85.79°	6194.36'	161.12'
6262'	20.95°	89.33°	6238.72'	176.62'
6310'	25.76°	91.48°	6282.78'	195.60'
6357'	29.10°	92.27°	6324.49'	217.16'
6405'	31.54°	93.22°	6365.92'	241.26'





6689'

53.03°

88.92°

6565.75'

440.37'

6700'

6736'

55.58°

89.00°

6593.17'

478.50'

6750'

6784'

58.65°

88.43°

6619.23'

518.78'

6800'

6831'

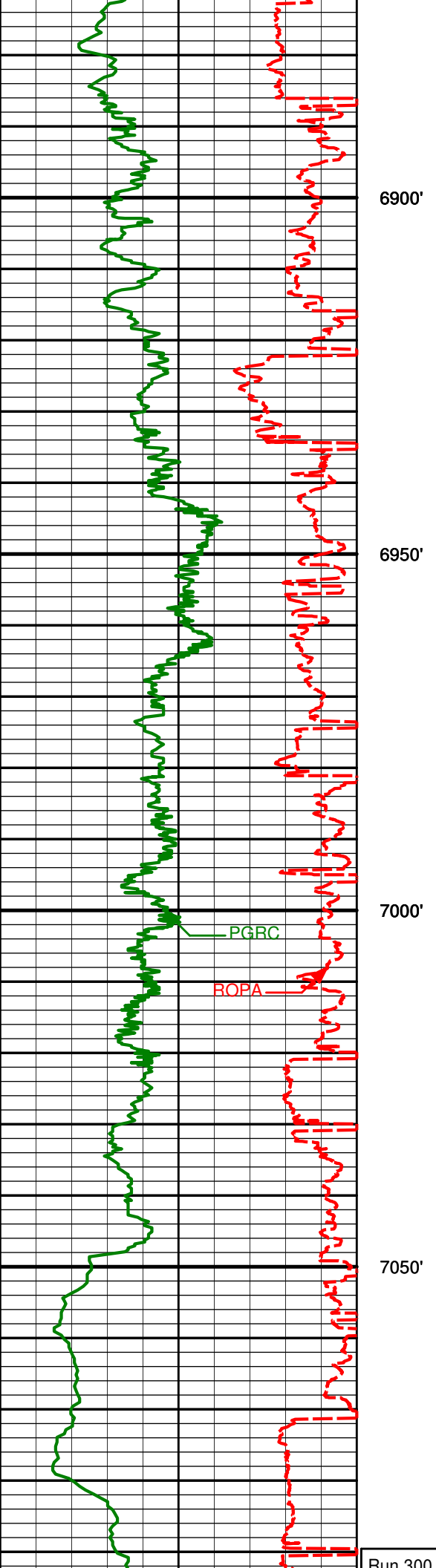
62.06°

88.36°

6642.47'

559.61'

6850'



6879'	65.69°	88.56°	6663.60'	602.68'
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6900'

6926'	69.99°	88.78°	6681.33'	646.17'
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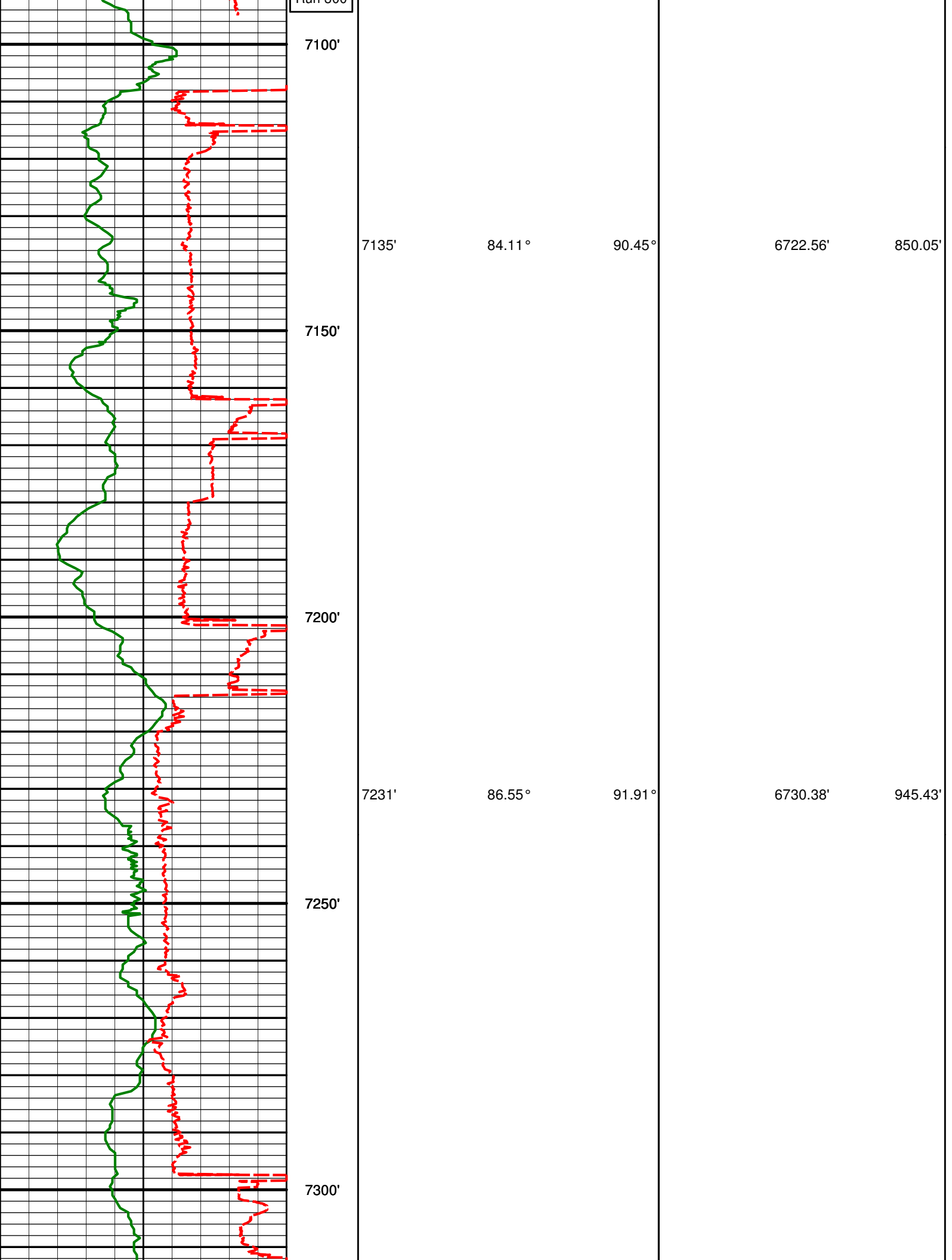
6950'

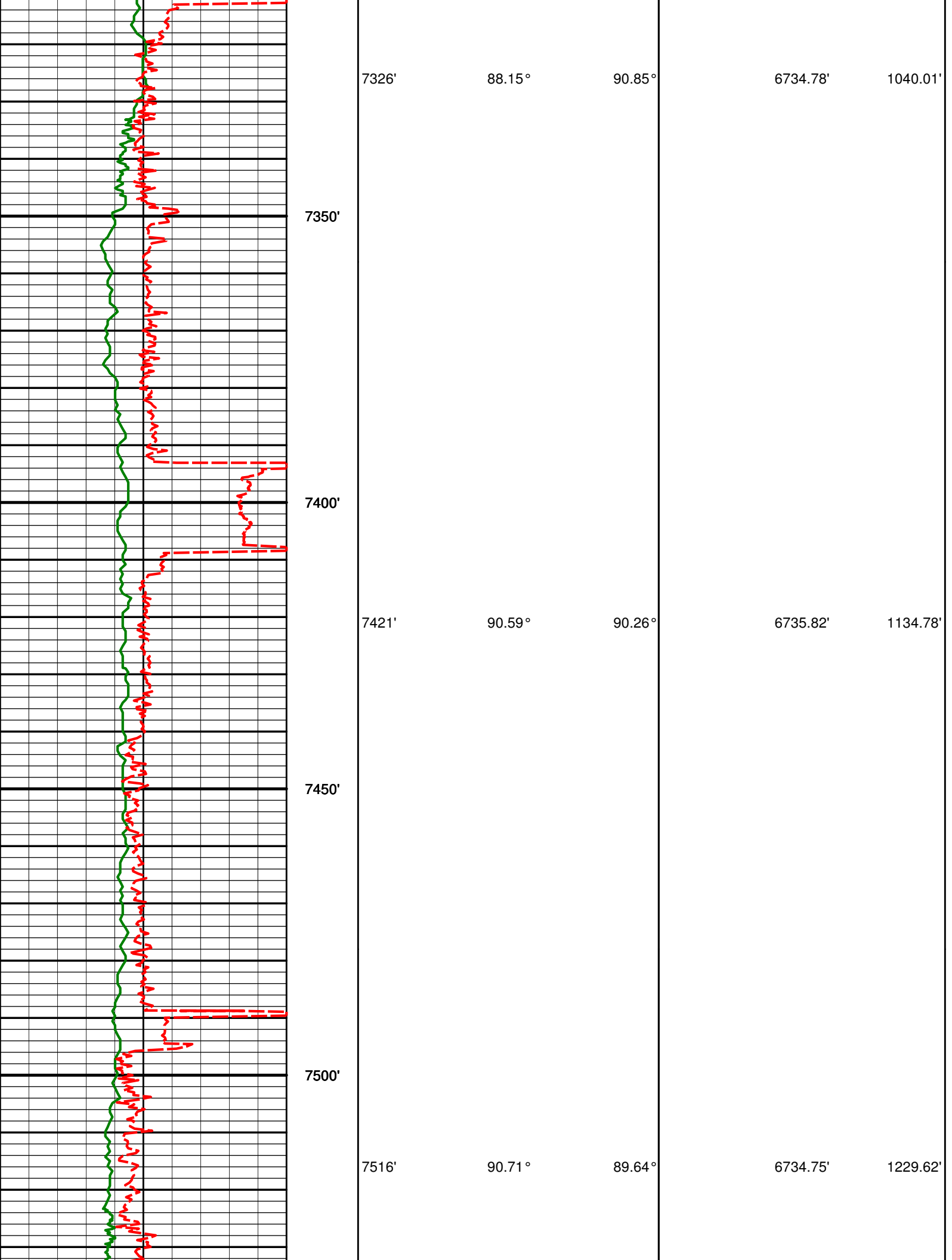
6974'	74.09°	89.34°	6696.12'	691.78'
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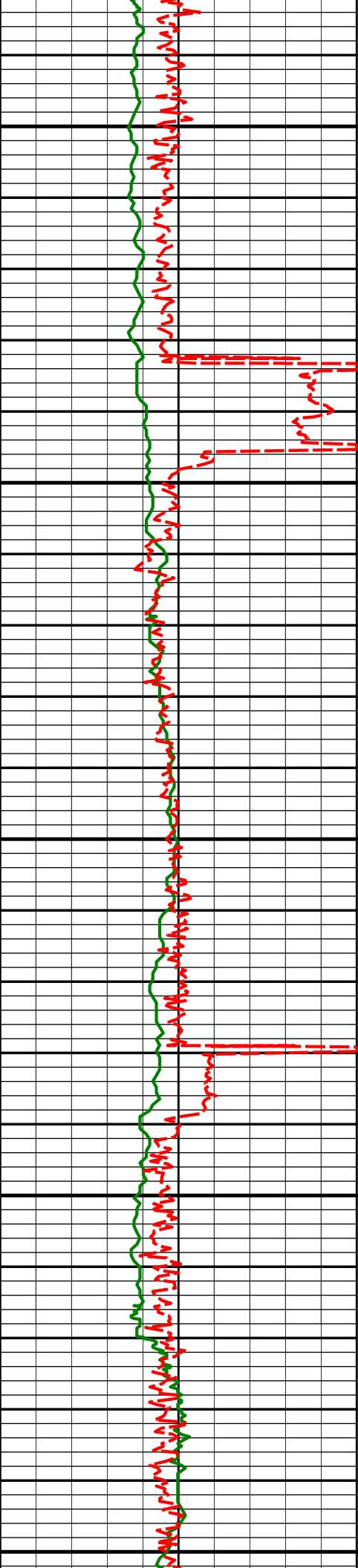
7000'

7040'	81.07°	90.97°	6710.31'	756.08'
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7050'







7550'

7600'

7650'

7700'

7750'

7611'

89.41°

88.67°

6734.65'

1324.53'

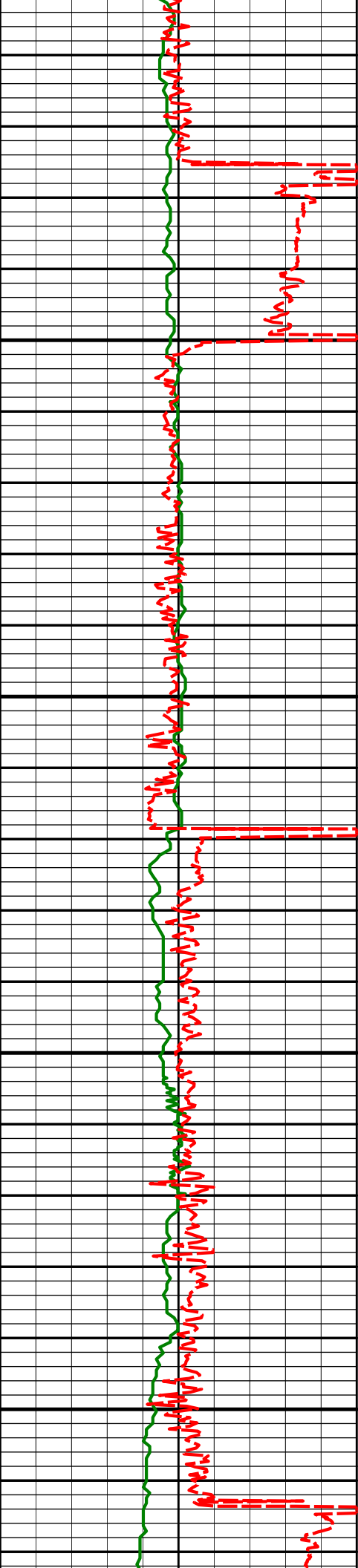
7706'

91.39°

88.97°

6733.98'

1419.46'



7800'

7801'

89.32°

87.11°

6733.39'

1514.42'

7850'

7900'

7896'

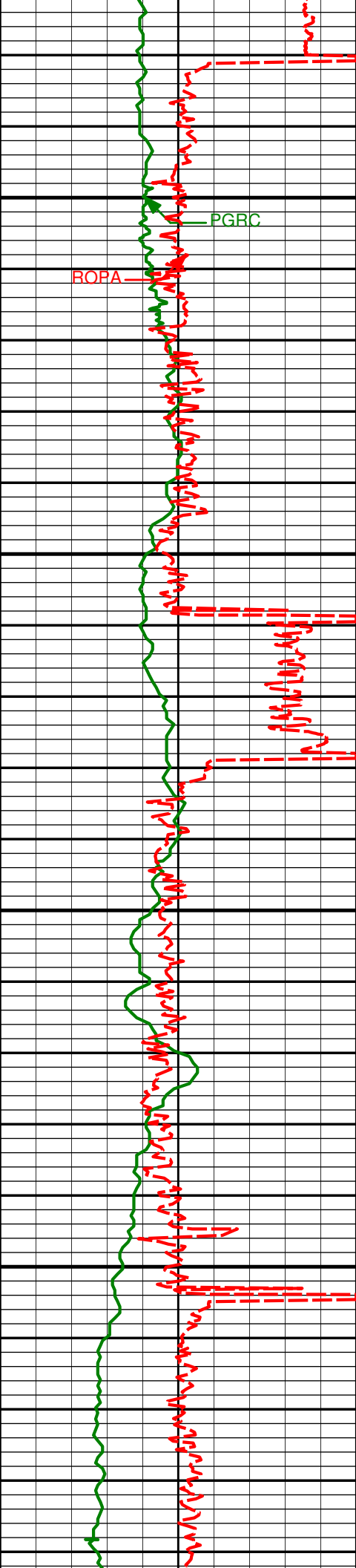
91.29°

87.13°

6732.88'

1609.41'

7950'



7991'

89.60°

87.15°

6732.14'

1704.40'

8000'

PGRC

ROFA

8050'

8086'

87.96°

86.87°

6734.16'

1799.38'

8100'

8150'

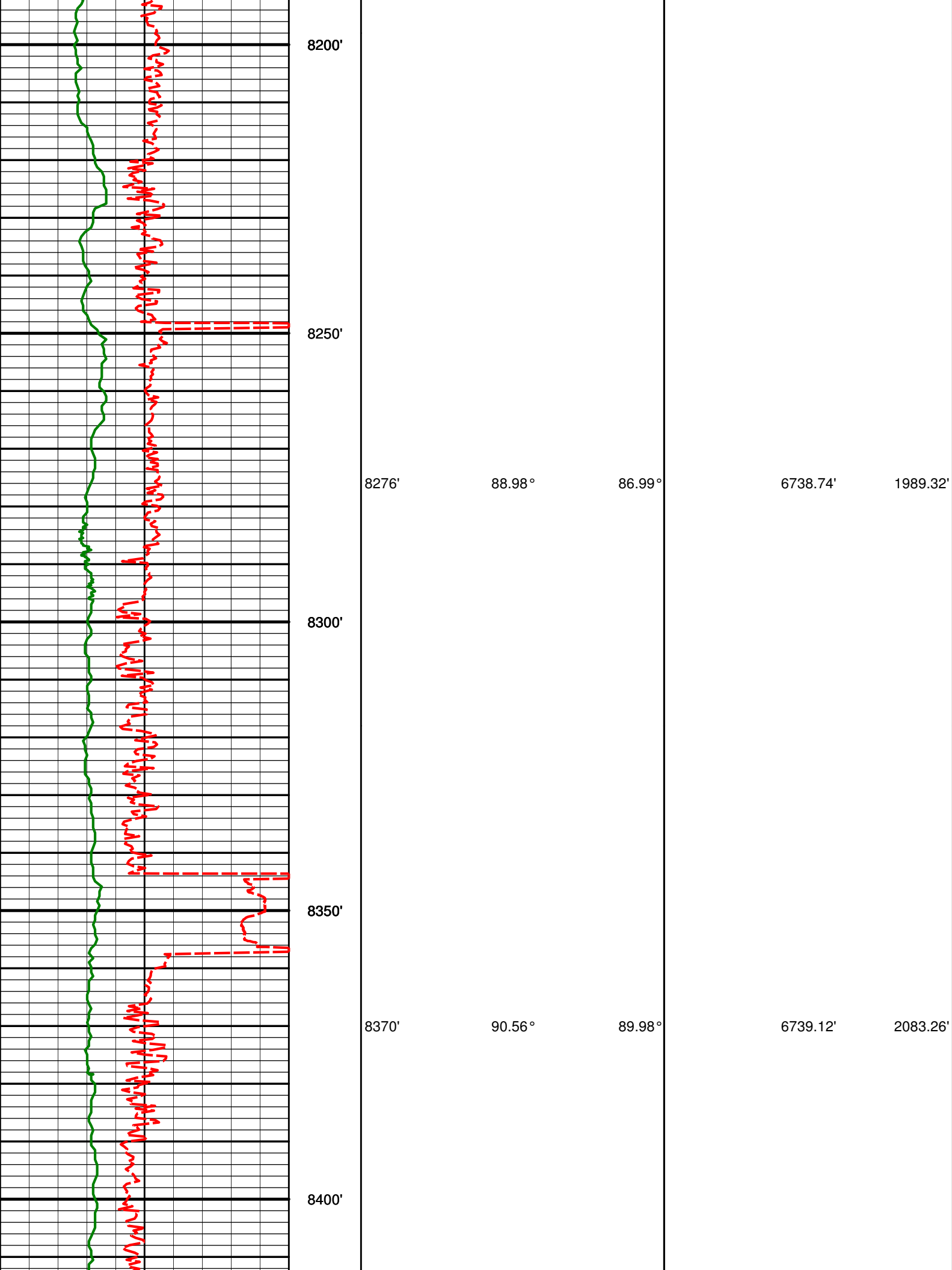
8181'

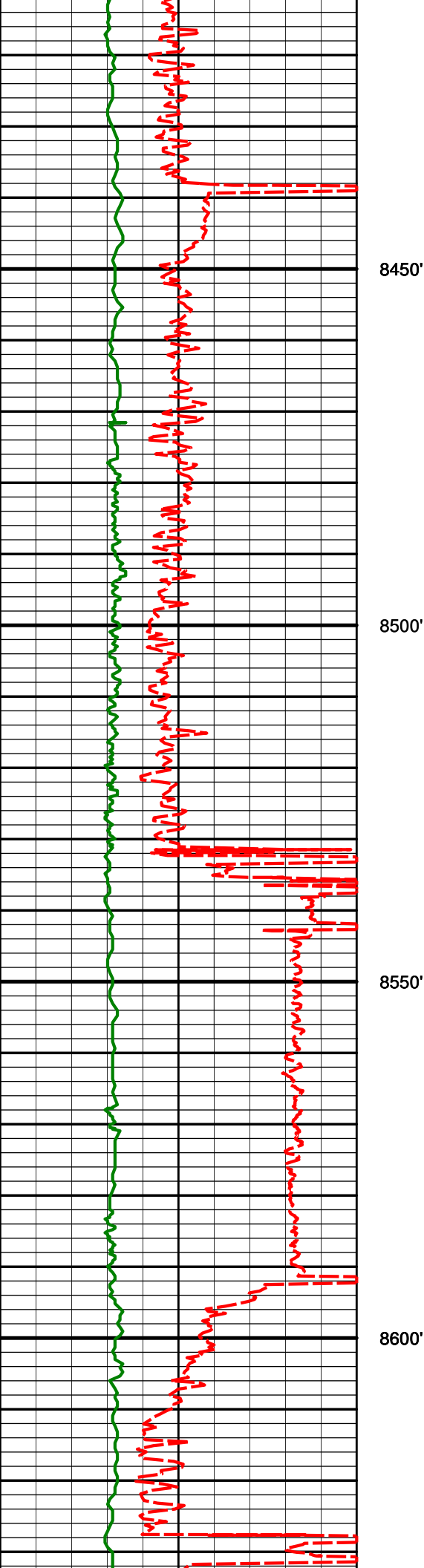
88.77°

87.33°

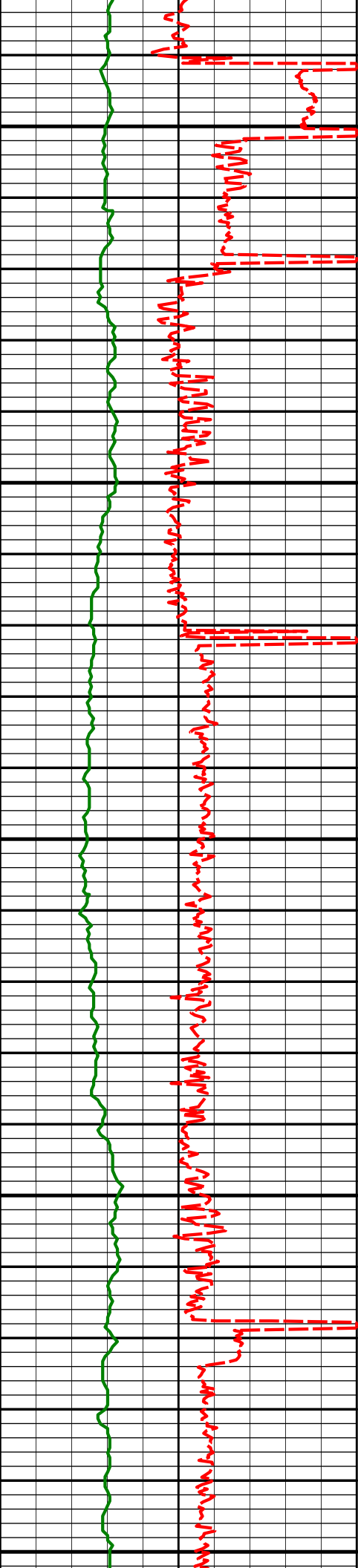
6736.87'

1894.34'





8465'	90.83°	90.22°	6737.97'	2178.08'
8500'				
8550'				
8560'	91.08°	89.71°	6736.38'	2272.92'
8600'				



8650'

8655'

88.89°

88.69°

6736.41'

2367.82'

8700'

8750'

8750'

90.59°

89.09°

6736.84'

2462.75'

8800'

8850'

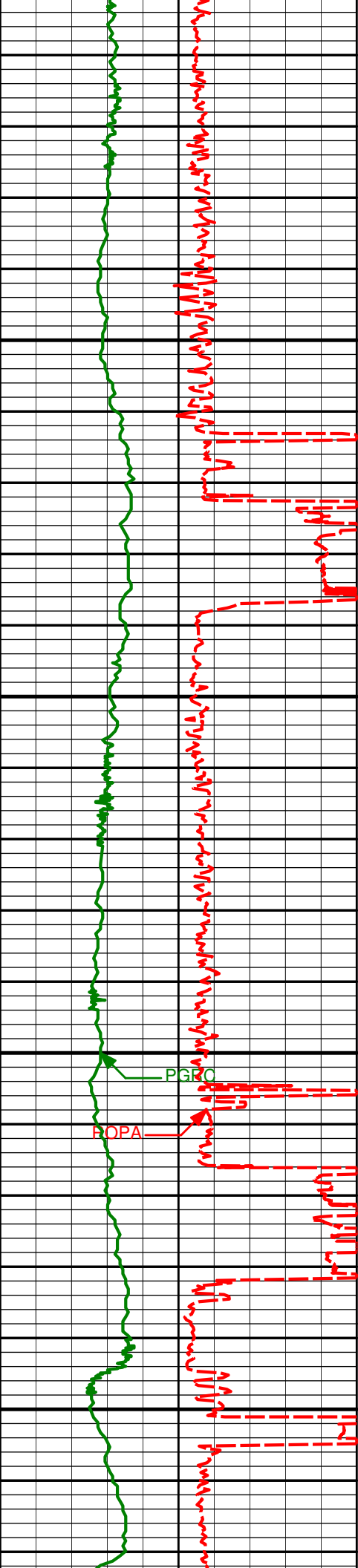
8844'

92.16°

88.55°

6734.59'

2556.65'



8900'

8939'

91.51°

87.95°

6731.55'

2651.57'

8950'

9000'

9034'

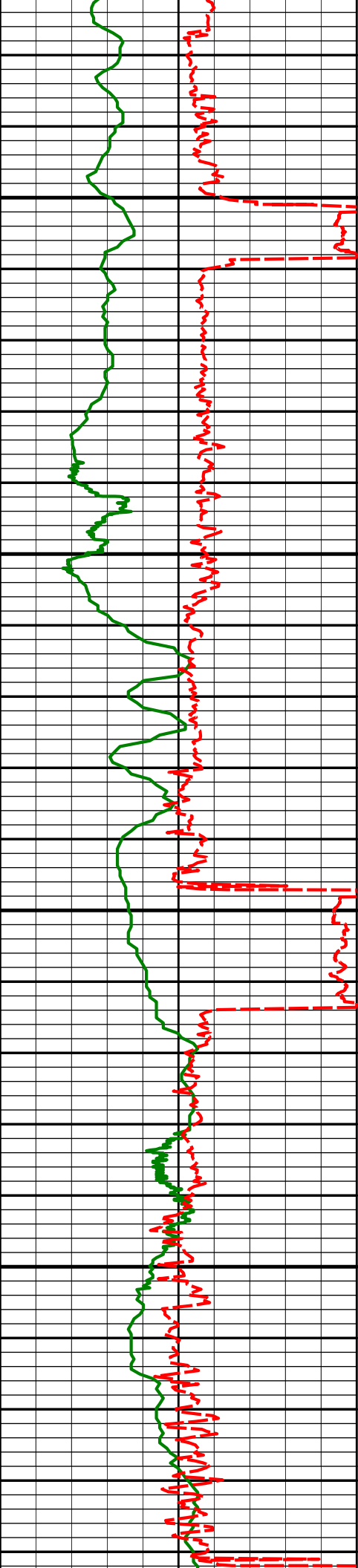
88.98°

86.69°

6731.14'

2746.55'

9050'



9100'

9129'

86.33°

87.17°

6735.02'

2841.46'

9150'

9200'

9224'

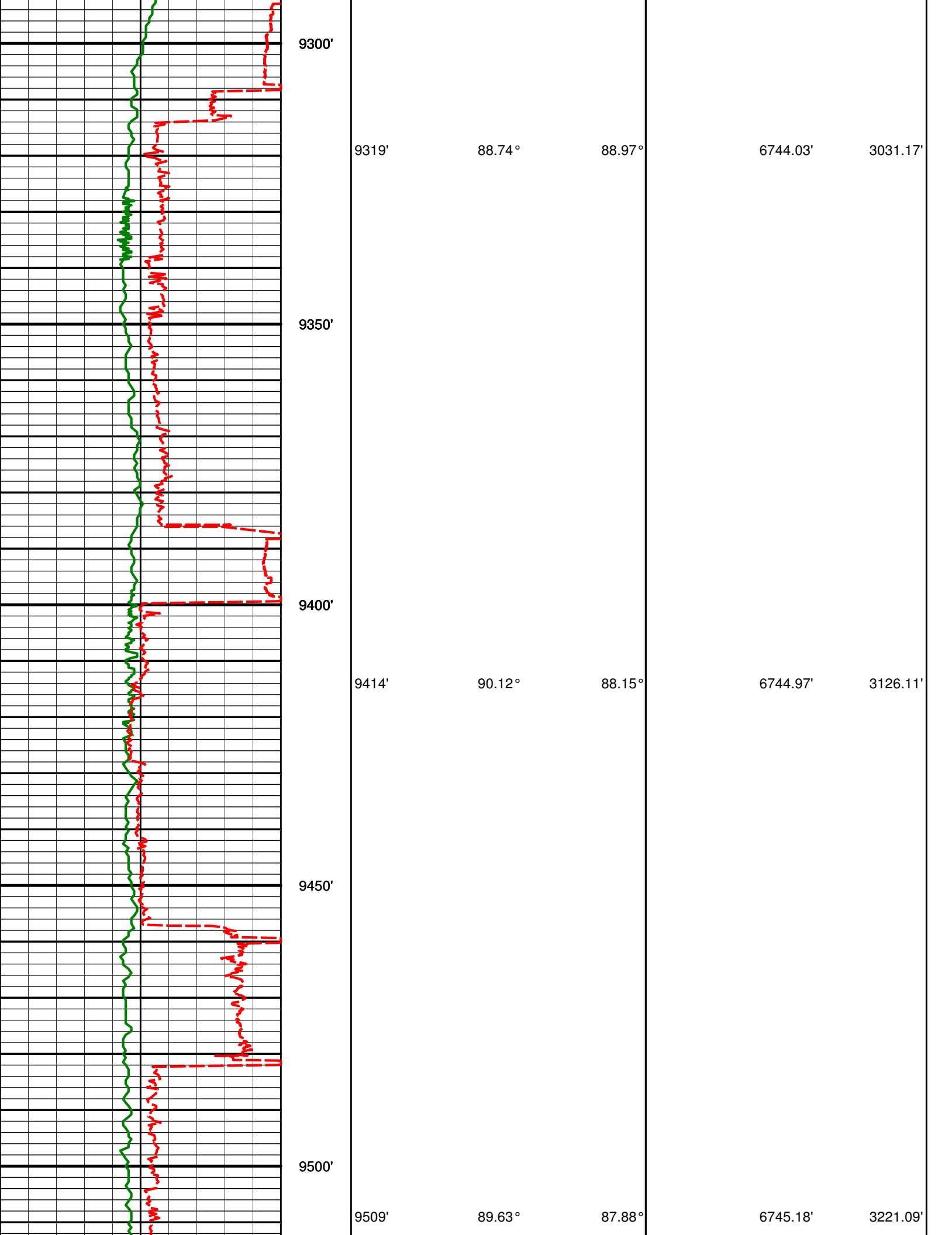
87.04°

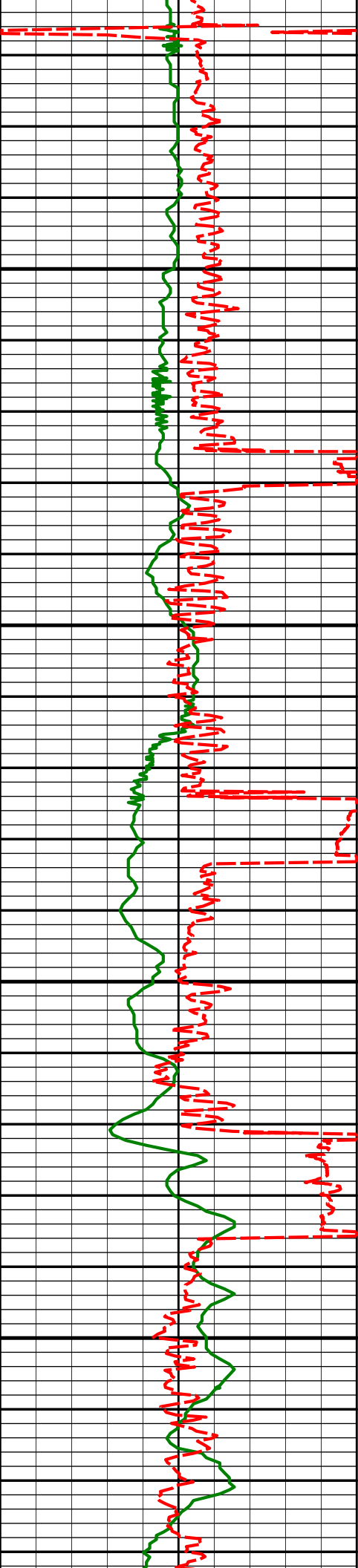
88.19°

6740.52'

2936.29'

9250'





9550'

9604'

9650'

9700'

9604'

9699'

89.51°

91.45°

87.17°

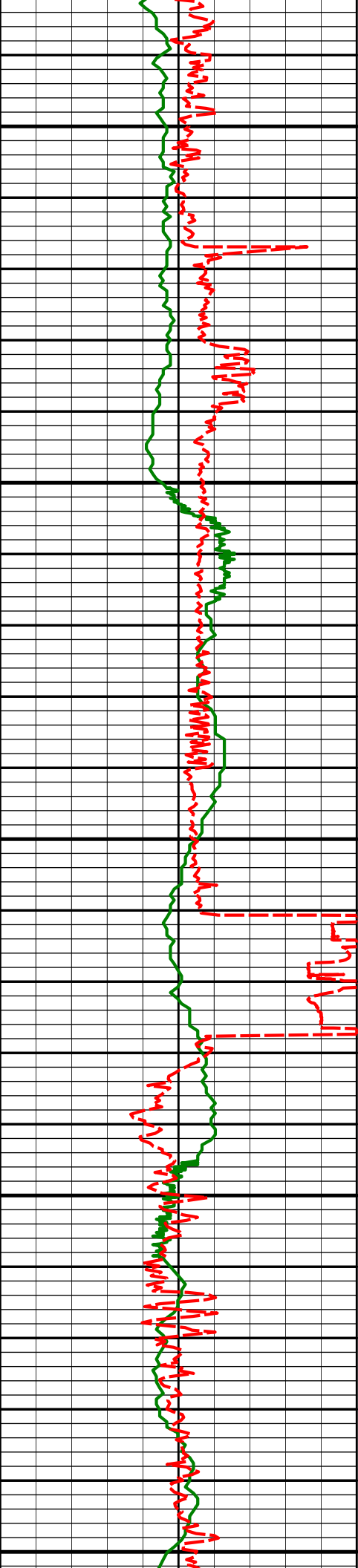
88.18°

6745.89'

6745.10'

3316.07'

3411.05'



9750'

9793'

91.76°

87.90°

6742.47'

3504.99'

9800'

9850'

9888'

91.82°

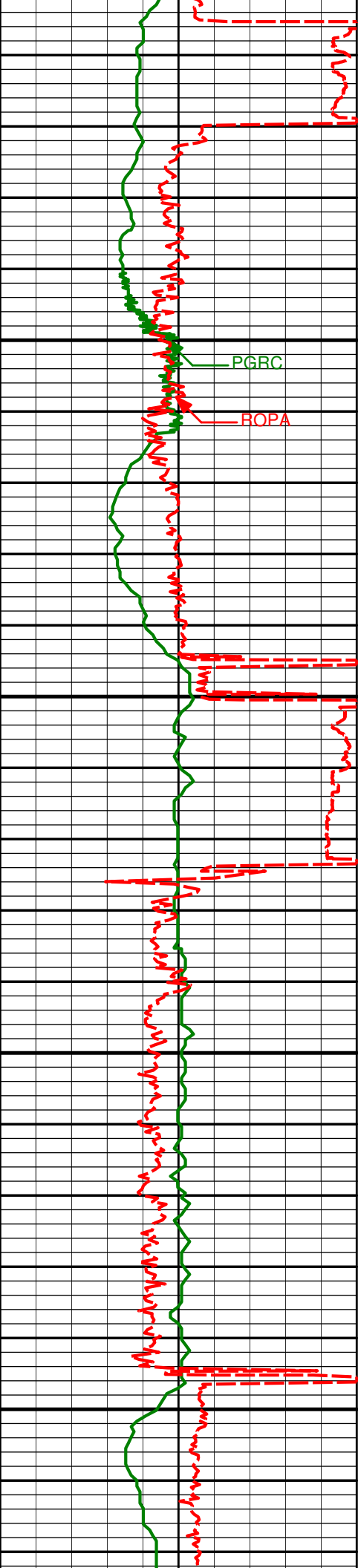
88.11°

6739.51'

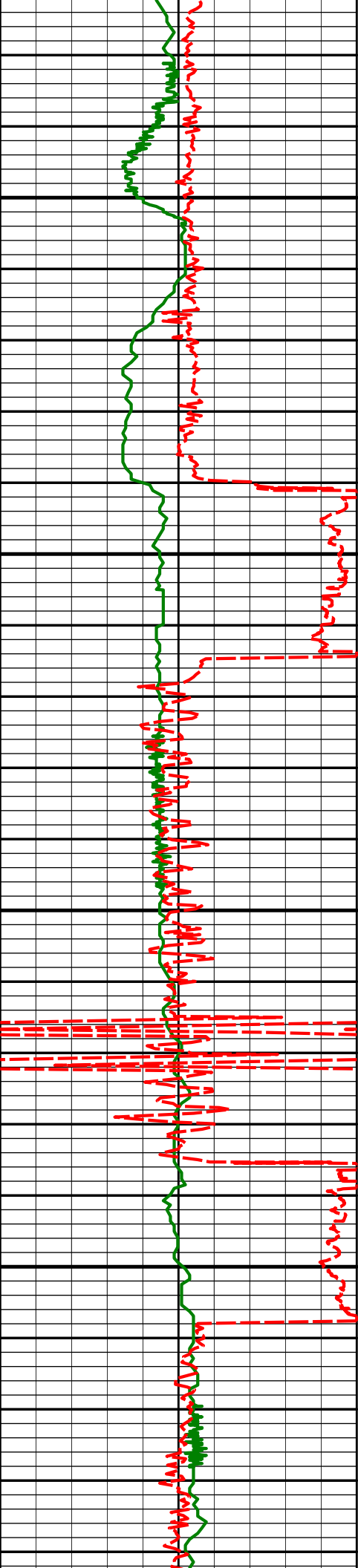
3599.92'

9900'

9950'



9983'	91.76°	88.59°	6736.54'	3694.83'
10000'				
10050'				
10078'	90.31°	89.49°	6734.82'	3789.74'
10100'				
10150'				
10178'	89.82°	87.52°	6734.52'	3884.83'



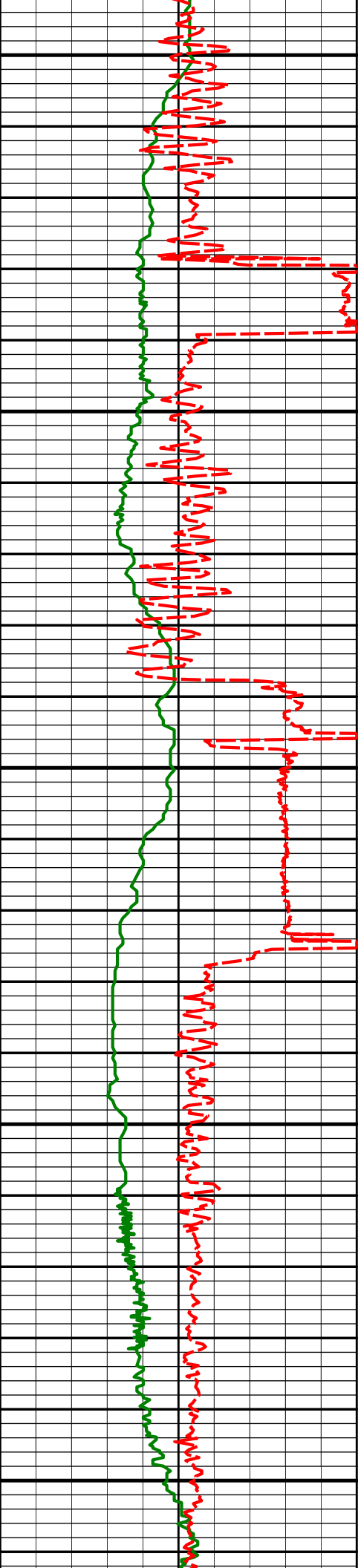
10200'

10250'

10300'

10350'

10173'	90.06°	87.59°	6734.52'	3884.68'
10267'	89.20°	88.48°	6735.13'	3978.65'
10362'	89.45°	89.16°	6736.25'	4073.58'



10400'

10450'

10500'

10550'

10600'

10457'

89.94°

89.31°

6736.76'

4168.49'

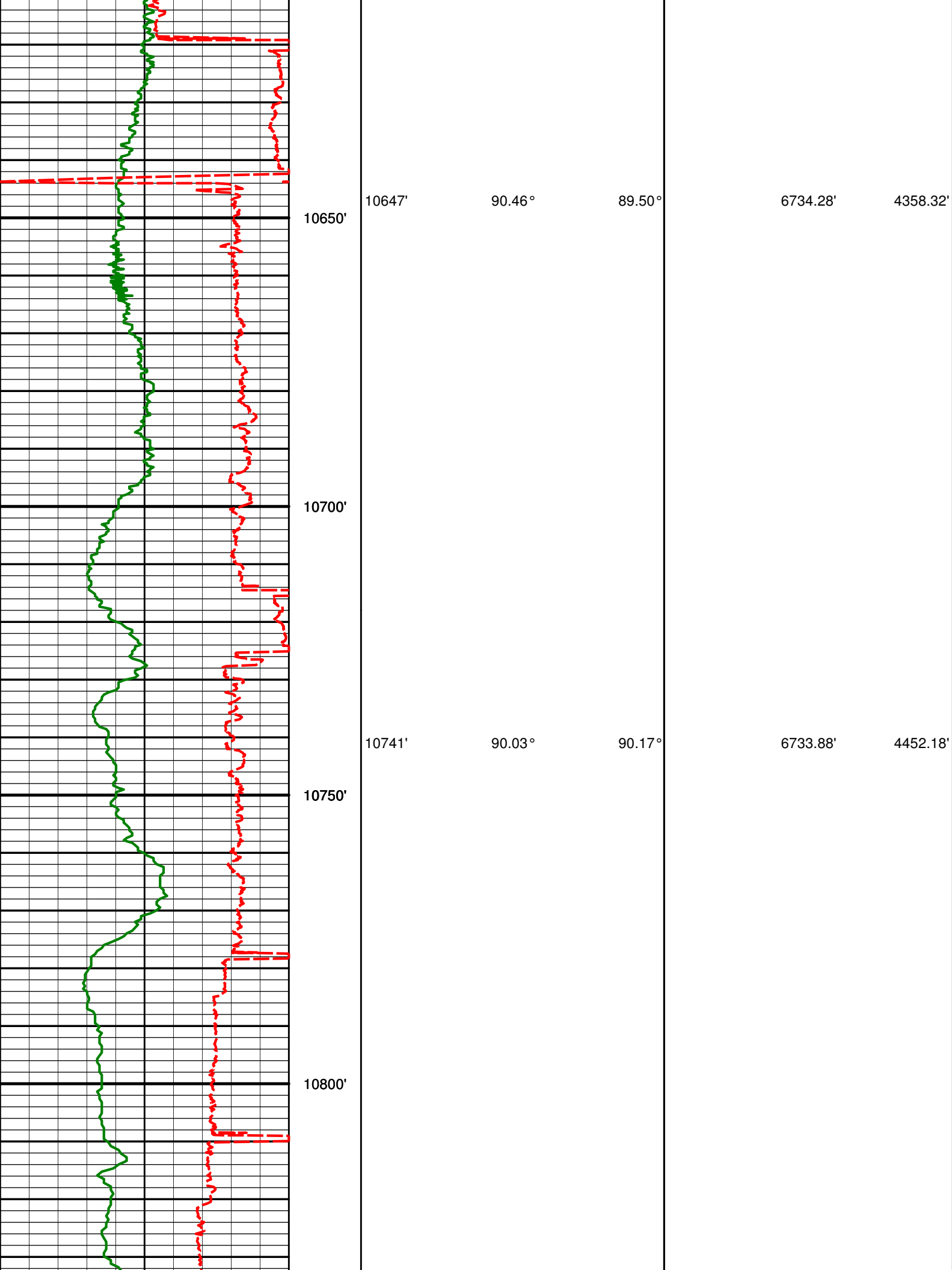
10552'

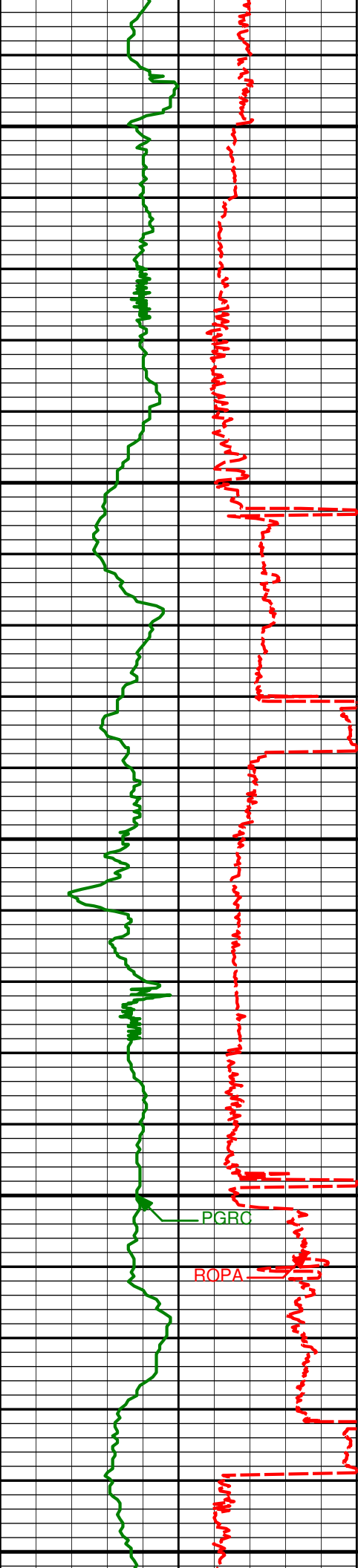
91.29°

88.47°

6735.74'

4263.41'





10836'

90.49°

89.14°

6733.44'

4547.05'

10850'

10900'

10931'

89.94°

88.76°

6733.09'

4641.98'

10950'

11000'

PGRC

ROPA

11026'

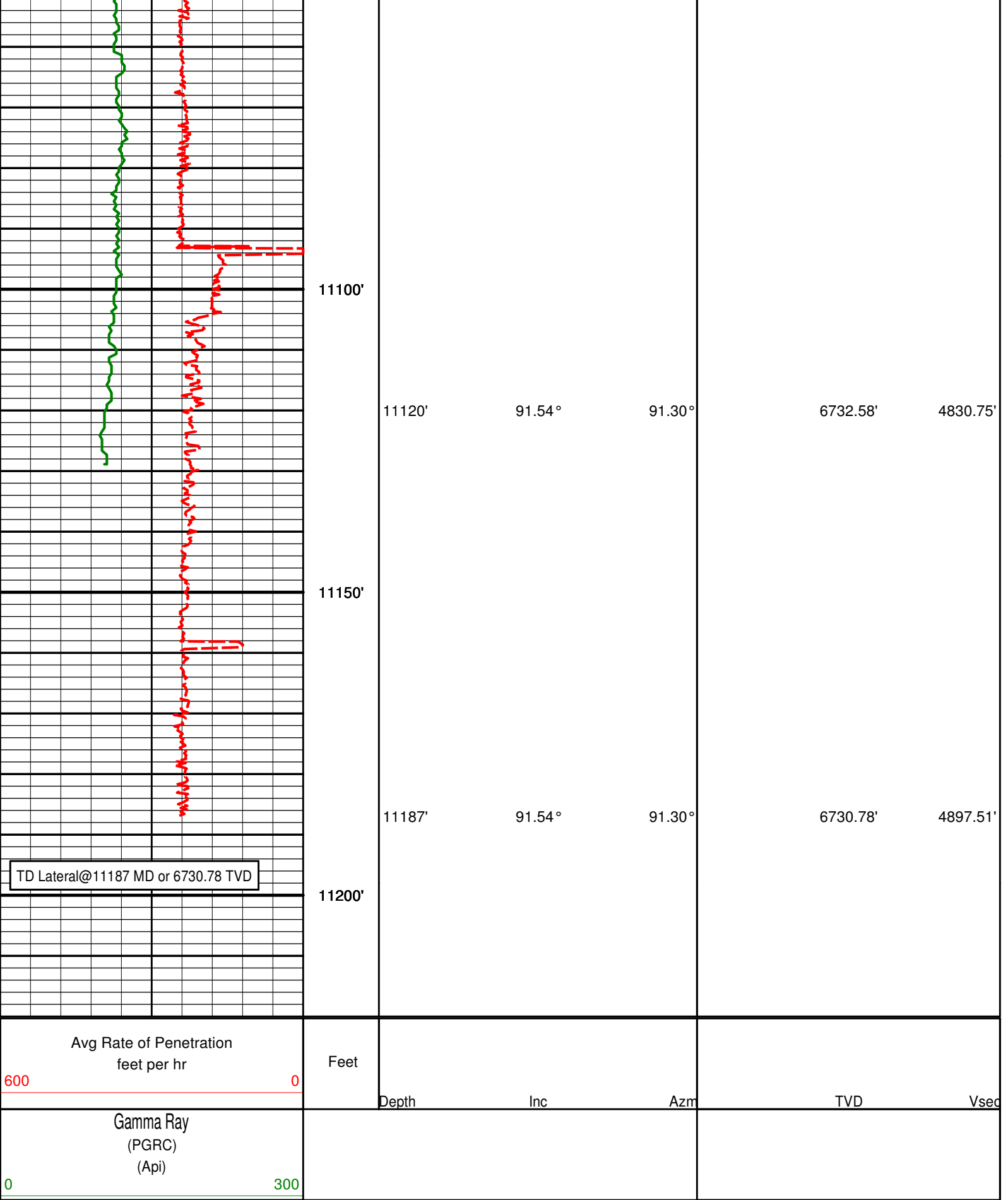
89.57°

88.65°

6733.49'

4736.92'

11050'



HALLIBURTON

DIRECTIONAL SURVEY REPORT

Noble Energy Wells Ranch USX AE07-63HN Wattenberg Weld Colorado USA CA-XX-0900484409							
Measured Depth (feet)	Inclination (degrees)	Direction (degrees)	Vertical Depth (feet)	Latitude (feet)	Departure (feet)	Vertical Section (feet)	Dogleg (deg/100ft)
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	TIE-IN
252.00	0.40	26.50	252.00	0.79 N	0.39 E	0.44	0.16
503.00	1.00	22.50	502.98	3.59 N	1.62 E	1.83	0.24
629.00	0.80	18.70	628.96	5.44 N	2.32 E	2.63	0.17
732.00	0.72	332.17	731.95	6.70 N	2.25 E	2.63	0.59
825.00	0.52	355.57	824.95	7.63 N	1.95 E	2.38	0.34
918.00	0.85	49.69	917.94	8.50 N	2.44 E	2.93	0.74
1011.00	1.00	41.15	1010.93	9.56 N	3.51 E	4.05	0.22
1104.00	0.90	65.44	1103.92	10.48 N	4.70 E	5.30	0.44
1197.00	1.02	64.17	1196.91	11.14 N	6.11 E	6.74	0.14
1291.00	0.97	72.34	1290.89	11.75 N	7.62 E	8.28	0.16
1384.00	0.99	81.31	1383.88	12.11 N	9.16 E	9.84	0.17
1477.00	0.80	93.90	1476.87	12.18 N	10.60 E	11.28	0.29
1571.00	0.97	76.34	1570.86	12.32 N	12.02 E	12.71	0.34
1667.00	1.20	89.96	1666.84	12.52 N	13.81 E	14.51	0.36
1762.00	1.05	94.92	1761.82	12.44 N	15.67 E	16.36	0.19
1856.00	1.09	98.35	1855.80	12.24 N	17.41 E	18.08	0.08
1951.00	1.02	95.94	1950.79	12.02 N	19.15 E	19.80	0.08
2046.00	1.00	85.76	2045.77	11.99 N	20.82 E	21.47	0.19
2141.00	1.04	87.65	2140.76	12.09 N	22.50 E	23.16	0.05
2236.00	2.74	58.74	2235.70	13.31 N	25.31 E	26.03	2.00
2331.00	5.31	41.77	2330.47	17.76 N	30.18 E	31.15	2.95
2426.00	8.55	34.47	2424.76	26.87 N	37.10 E	38.58	3.53
2521.00	9.43	33.71	2518.59	39.16 N	45.42 E	47.59	0.93
2616.00	9.81	31.86	2612.26	52.51 N	54.01 E	56.93	0.52
2711.00	10.32	28.47	2705.80	66.86 N	62.34 E	66.07	0.82
2806.00	11.29	31.02	2799.11	82.31 N	71.19 E	75.80	1.14
2901.00	10.97	35.32	2892.32	97.66 N	81.21 E	86.68	0.94
2996.00	10.67	40.80	2985.64	111.70 N	92.19 E	98.44	1.13
3091.00	11.34	41.84	3078.89	125.32 N	104.16 E	111.18	0.73
3185.00	11.13	33.40	3171.09	139.77 N	115.32 E	123.15	1.76
3280.00	8.91	26.23	3264.64	154.03 N	123.62 E	132.25	2.68
3375.00	5.30	11.98	3358.91	164.92 N	127.78 E	137.03	4.20
3470.00	2.53	0.50	3453.68	171.31 N	128.71 E	138.33	3.01
3565.00	1.04	112.59	3548.65	173.08 N	129.52 E	139.24	3.24
3755.00	1.92	281.95	3738.62	173.08 N	128.00 E	137.72	1.55
3850.00	1.89	284.21	3833.57	173.79 N	124.92 E	134.68	0.08
3945.00	2.12	285.42	3928.51	174.64 N	121.70 E	131.52	0.24
4040.00	2.43	286.35	4023.43	175.68 N	118.08 E	127.97	0.33
4135.00	0.58	312.25	4118.40	176.57 N	115.79 E	125.73	2.02
4230.00	0.56	327.87	4213.39	177.29 N	115.18 E	125.17	0.17
4420.00	0.60	326.57	4403.38	178.89 N	114.15 E	124.23	0.02
4610.00	1.09	305.25	4593.36	180.76 N	112.12 E	122.31	0.30
4704.00	0.43	337.59	4687.35	181.61 N	111.26 E	121.50	0.81
4894.00	1.09	142.31	4877.34	180.83 N	112.09 E	122.29	0.80
5084.00	1.42	146.01	5067.30	177.45 N	114.52 E	124.51	0.17
5178.00	1.47	134.44	5161.27	175.64 N	116.02 E	125.91	0.31
5273.00	1.27	137.73	5256.24	174.01 N	117.60 E	127.39	0.23
5368.00	0.28	167.21	5351.23	173.01 N	118.36 E	128.09	1.09
5558.00	0.18	293.86	5541.23	172.69 N	118.18 E	127.90	0.22
5652.00	0.38	343.01	5635.23	173.04 N	117.95 E	127.69	0.31
5747.00	0.57	324.65	5730.23	173.73 N	117.59 E	127.36	0.25
5842.00	0.76	355.65	5825.22	174.74 N	117.27 E	127.10	0.42
5911.00	0.71	341.49	5894.22	175.61 N	117.10 E	126.98	0.27
6026.00	1.02	25.28	6009.20	177.21 N	117.30 E	127.28	0.61
6073.00	6.64	69.09	6056.08	178.56 N	120.02 E	130.07	12.64
6120.00	11.81	75.80	6102.46	180.71 N	127.23 E	137.39	11.21
6167.00	14.46	78.75	6148.23	183.04 N	137.64 E	147.92	5.82
6215.00	17.61	85.79	6194.36	184.74 N	150.76 E	161.12	7.70
6262.00	20.95	89.33	6238.72	185.36 N	166.26 E	176.62	7.52
6310.00	27.52	91.46	6303.53	187.12 N	183.92 E	187.33	12.46

6310.00	25.76	91.48	6282.78	185.19 N	185.28 E	195.60	10.19
6357.00	29.10	92.27	6324.49	184.48 N	206.91 E	217.16	7.15
6405.00	31.54	93.22	6365.92	183.31 N	231.12 E	241.26	5.18
6452.00	37.02	92.15	6404.74	182.09 N	257.55 E	267.58	11.73
6500.00	43.20	89.91	6441.43	181.57 N	288.45 E	298.40	13.21
6547.00	46.78	89.02	6474.67	181.89 N	321.67 E	331.58	7.73
6595.00	49.35	88.60	6506.74	182.63 N	357.37 E	367.26	5.41
6642.00	51.02	88.71	6536.83	183.48 N	393.46 E	403.34	3.54
6689.00	53.03	88.92	6565.75	184.25 N	430.50 E	440.37	4.30
6736.00	55.58	89.00	6593.17	184.94 N	468.66 E	478.50	5.43
6784.00	58.65	88.43	6619.23	185.85 N	508.96 E	518.78	6.48
6831.00	62.06	88.36	6642.47	186.99 N	549.78 E	559.61	7.25
6879.00	65.69	88.56	6663.60	188.15 N	592.86 E	602.68	7.57
6926.00	69.99	88.78	6681.33	189.16 N	636.36 E	646.17	9.16
6974.00	74.09	89.34	6696.12	189.91 N	682.01 E	691.78	8.63
7040.00	81.07	90.97	6710.31	189.72 N	746.42 E	756.08	10.84
7135.00	84.11	90.45	6722.56	188.56 N	840.61 E	850.05	3.24
7231.00	86.55	91.91	6730.38	186.59 N	936.26 E	945.43	2.96
7326.00	88.15	90.85	6734.78	184.30 N	1031.13 E	1040.01	2.02
7421.00	90.59	90.26	6735.82	183.37 N	1126.11 E	1134.78	2.64
7516.00	90.71	89.64	6734.75	183.46 N	1221.10 E	1229.62	0.67
7611.00	89.41	88.67	6734.65	184.86 N	1316.09 E	1324.53	1.70
7706.00	91.39	88.97	6733.98	186.82 N	1411.06 E	1419.46	2.10
7801.00	89.32	87.11	6733.39	190.07 N	1506.00 E	1514.42	2.92
7896.00	91.29	87.13	6732.88	194.85 N	1600.87 E	1609.41	2.08
7991.00	89.60	87.15	6732.14	199.58 N	1695.75 E	1704.40	1.78
8086.00	87.96	86.87	6734.16	204.54 N	1790.59 E	1799.38	1.75
8181.00	88.77	87.33	6736.87	209.34 N	1885.43 E	1894.34	0.97
8276.00	88.98	86.99	6738.74	214.04 N	1980.30 E	1989.32	0.42
8370.00	90.56	89.98	6739.12	216.52 N	2074.25 E	2083.26	3.59
8465.00	90.83	90.22	6737.97	216.36 N	2169.24 E	2178.08	0.39
8560.00	91.08	89.71	6736.38	216.42 N	2264.23 E	2272.92	0.60
8655.00	88.89	88.69	6736.41	217.75 N	2359.21 E	2367.82	2.54
8750.00	90.59	89.09	6736.84	219.60 N	2454.19 E	2462.75	1.83
8844.00	92.16	88.55	6734.59	221.54 N	2548.14 E	2556.65	1.77
8939.00	91.51	87.95	6731.55	224.44 N	2643.04 E	2651.57	0.93
9034.00	88.98	86.69	6731.14	228.89 N	2737.93 E	2746.55	2.97
9129.00	86.33	87.17	6735.02	233.96 N	2832.71 E	2841.46	2.84
9224.00	87.04	88.19	6740.52	237.80 N	2927.47 E	2936.29	1.30
9319.00	88.74	88.97	6744.03	240.15 N	3022.37 E	3031.17	1.97
9414.00	90.12	88.15	6744.97	242.54 N	3117.33 E	3126.11	1.70
9509.00	89.63	87.88	6745.18	245.84 N	3212.27 E	3221.09	0.59
9604.00	89.51	87.17	6745.89	249.94 N	3307.18 E	3316.07	0.75
9699.00	91.45	88.18	6745.10	253.80 N	3402.09 E	3411.05	2.30
9793.00	91.76	87.90	6742.47	257.01 N	3496.00 E	3504.99	0.44
9888.00	91.82	88.11	6739.51	260.32 N	3590.90 E	3599.92	0.24
9983.00	91.76	88.59	6736.54	263.05 N	3685.81 E	3694.83	0.50
10078.00	90.31	89.49	6734.82	264.64 N	3780.78 E	3789.74	1.80
10173.00	90.06	87.59	6734.52	267.06 N	3875.74 E	3884.68	2.01
10267.00	89.20	88.48	6735.13	270.28 N	3969.68 E	3978.65	1.31
10362.00	89.45	89.16	6736.25	272.25 N	4064.66 E	4073.58	0.76
10457.00	89.94	89.31	6736.76	273.52 N	4159.65 E	4168.49	0.54
10552.00	91.29	88.47	6735.74	275.36 N	4254.62 E	4263.41	1.68
10647.00	90.46	89.50	6734.28	277.04 N	4349.59 E	4358.32	1.40
10741.00	90.03	90.17	6733.88	277.30 N	4443.59 E	4452.18	0.85
10836.00	90.49	89.14	6733.44	277.87 N	4538.59 E	4547.05	1.19
10931.00	89.94	88.76	6733.09	279.61 N	4633.57 E	4641.98	0.71
11026.00	89.57	88.65	6733.49	281.75 N	4728.54 E	4736.92	0.41
11120.00	91.54	91.30	6732.58	281.79 N	4822.53 E	4830.75	3.51
11187.00	91.54	91.30	6730.78	280.28 N	4889.49 E	4897.51	0.01

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 86.71 DEGREES (GRID)
A TOTAL CORRECTION OF 7.68 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.

HORIZONTAL DISPLACEMENT(CLOSURE) AT 11187.00 FEET

HORIZONTAL DISPLACEMENT (CLOSURE) AT 11187.00 FEET
IS 4897.51 FEET ALONG 86.72 DEGREES (GRID)

Tie-In @ Surface

Surveys at 252 ft, 503 ft, and 629 ft were taken and provided by HP 322 while they were drilling the surface hole.

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