



5" = 100' FEET MD

COMPANY : ANADARKO E&P ONSHORE LLC
WELL : POWERS 13C-22HZ
FIELD : WATTENBERG
COUNTY : WELD
STATE : COLORADO
COUNTRY : U.S.A.
UWI : 05-123-41902

COMPANY : ANADARKO E&P ONSHORE LLC

WELL : POWERS 13C-22HZ

FIELD : WATTENBERG

COUNTY : WELD

STATE : COLORADO

COUNTRY : U.S.A.

UWI : 05-123-41902

WELL LOCATION

LAT:40.1293330°N LONG:104.6538040°W

N:14574017.80 ft E:1737186.12 ft

SEC:22

TWP: 2N

RANGE:65W

OTHER SERVICES

DIRECTIONAL
ROP

DEPTH REF. : RKB

REF. HEIGHT : 20.000 ft

RKB to Ground Level

GROUND LEVEL : 4883.000 ft

G.L. to MEAN SEA LEVEL

BOREHOLE RECORD

DEVIATION RECORD

HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft
12.25	0	1893	0 - 20	1893	5190
8.5	1893	12918	20 - 0	5190	6666
			0 - 88	6666	7790
			88 - 93	7790	12918

CASING RECORD

CASING SIZE in	FROM ft	TO ft			
9.625	0	1870			
			DRILLING CO. : PRECISION		
			RIG : 461		
			LWD UNIT NO. : MWD-00282-CDISTRICT : CASPER		
			SPUD DATE : 10/04/2015		
			LWD START DATE : 10/05/2015	DEPTH : 1847 ft	
			LWD END DATE : 10/08/2015	DEPTH : 12918 ft	
			TOTAL DEPTH : 12918 ft		

Run Data

Run Data					
RUN NUMBER	1	2			
START DATE	10/05/2015	10/07/2015			
START TIME	1300	1200			
END DATE	10/07/2015	10/08/2015			
END TIME	1100	2010			
DEPTH IN (ft)	1893	9775			
DEPTH OUT (ft)	9775	12918			
LOG TOP (ft)	1847	9728			
LOG BOTTOM (ft)	9728	12918			
HOLE SIZE (in)	8.5	8.5			
MUD DATA @ (ft)	1901	8296			
MUD TYPE	OIL-BASED	OIL-BASED			
DENSITY (lb / gal)	9.3	9.4			
VISCOSITY (s / qt)	80	70			
pH	-	-			
FLUID LOSS (cm ³ / 30)	3	3			
SALINITY (ppm)	62000	66000			
Rm (ohmm @ deg F)	-	-			
Rmf (ohmm @ deg F)	-	-			
MAX TEMP (deg F)	196	221			
Rm @ MAX TEMP (ohmm)	-	-			
LWD ENGINEER #1	S. WAXLER	S. WAXLER			
LWD ENGINEER #2	B. GREER	B. GREER			
LWD ENGINEER #3	-	-			
LOG WITNESS #1	I. HARRIS	I. HARRIS			
LOG WITNESS #2	-	-			

Remarks
ANADARKO E&P ONSHORE LLC PRODUCTION AFE# 2109833
SCIENTIFIC DRILLING INTERNATIONAL JOB# 315945
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO TOOL TEMPERATURE CURVE
RUN # 1: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-386 / CONT = 255 / MWD EYE = 342 / GAMMA RAY = 1053
BIT TO SENSOR OFFSETS: SURVEY = 55.43 FT. / GAMMA RAY = 46.78 FT.
RUN # 2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-380 / CONT = 211 / MWD EYE = 655 / GAMMA RAY = 1302
BIT TO SENSOR OFFSETS: SURVEY = 55.38 FT. / GAMMA RAY = 46.73 FT.
MNEMONICS LIST:
GR = GAMMA RAY
ROP = RATE OF PENETRATION
T-TEMP = TOOL TEMPERATURE

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions as set out in our current price schedule.

ANADARKO E&P ONSHORE LLC
POWERS 13C-22HZ
WATTENBERG FIELD
WELD COUNTY, COLORADO
05-123-41902

Gamma Ray (GR)

0 Unit = aapi 150

MEASURED DEPTH
1:240 (ft)

1900

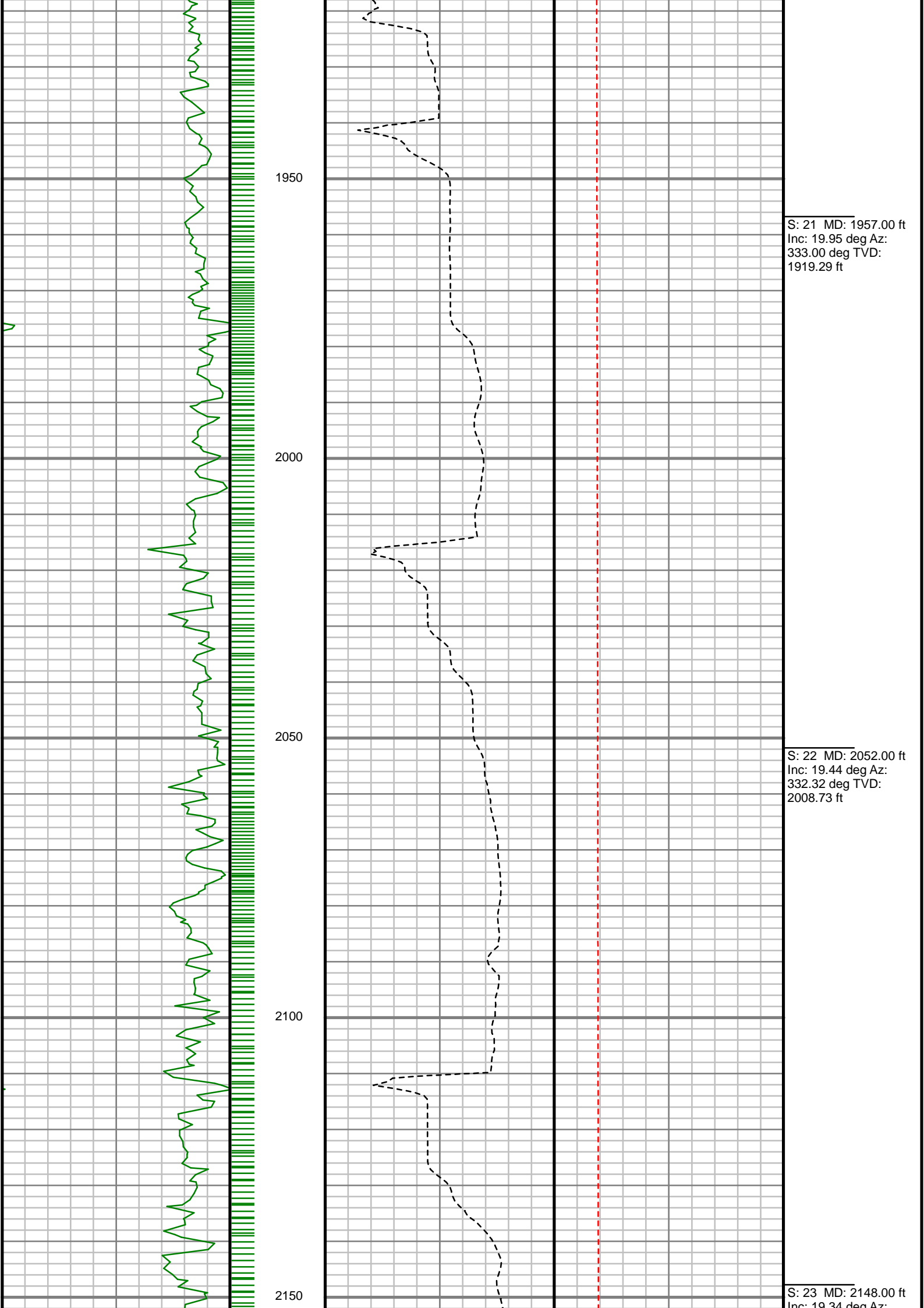
Rate of Penetration (ROP)

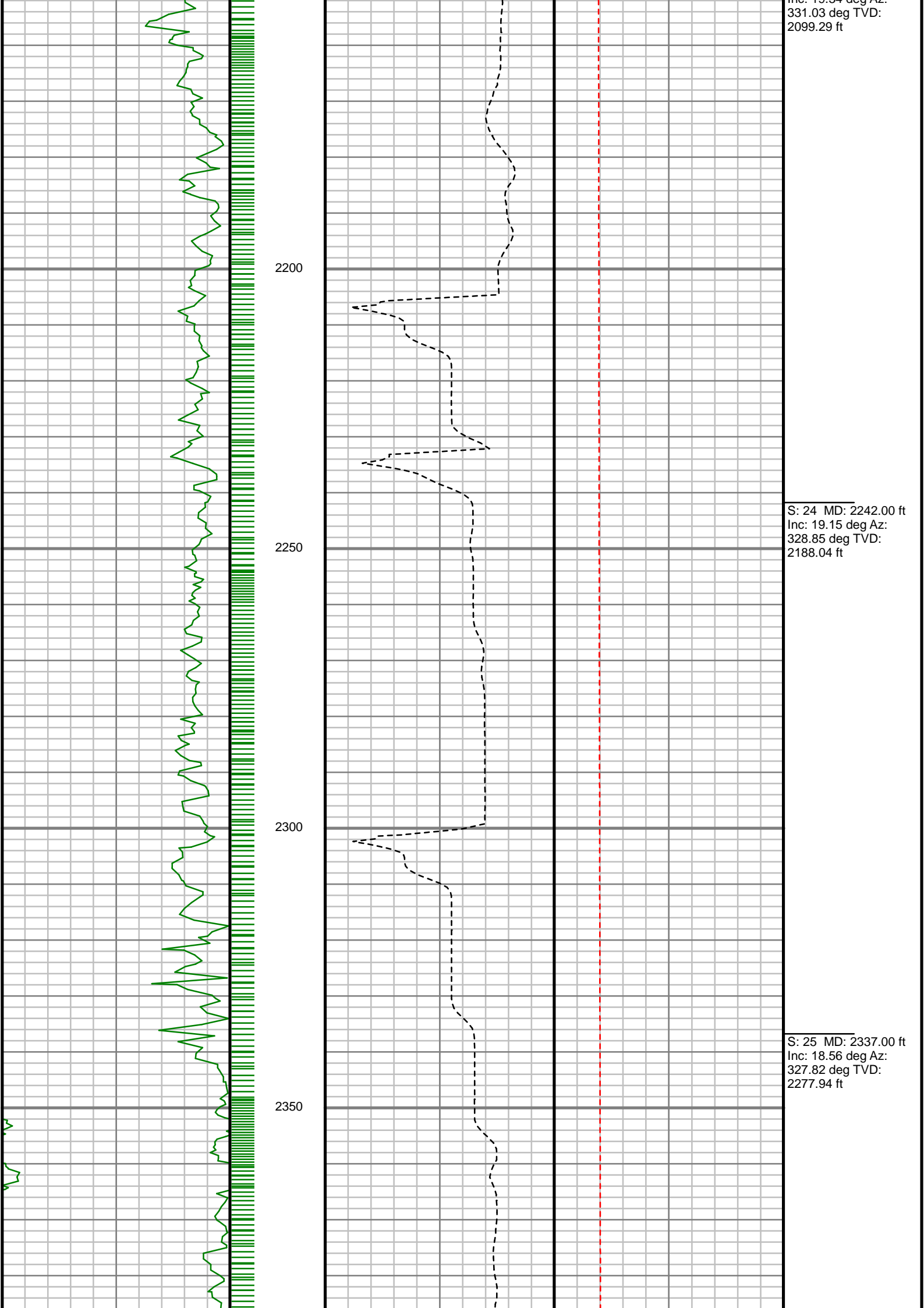
0 Unit = ft/hr 1000

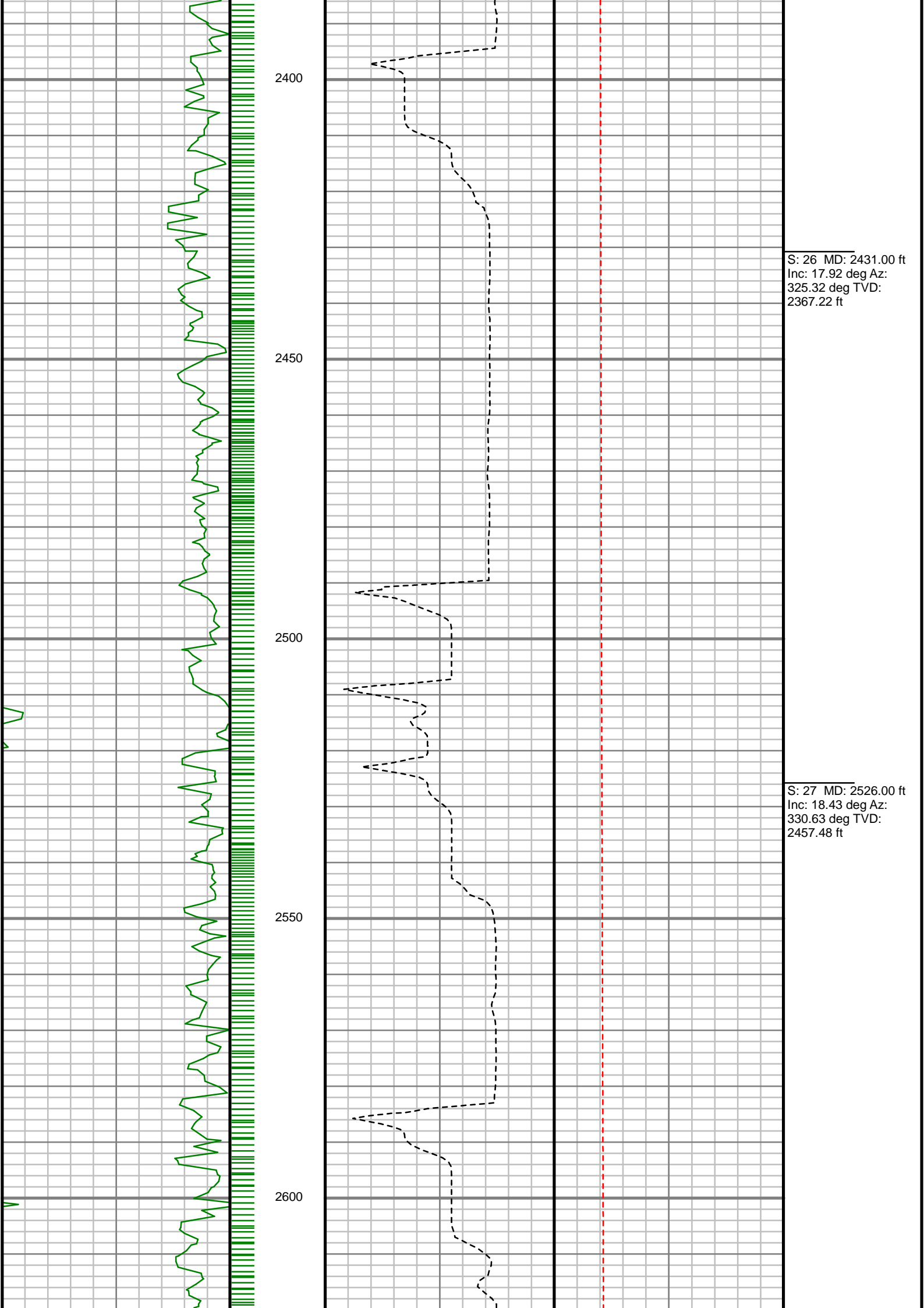
Tool Temperature (T-TEMP)

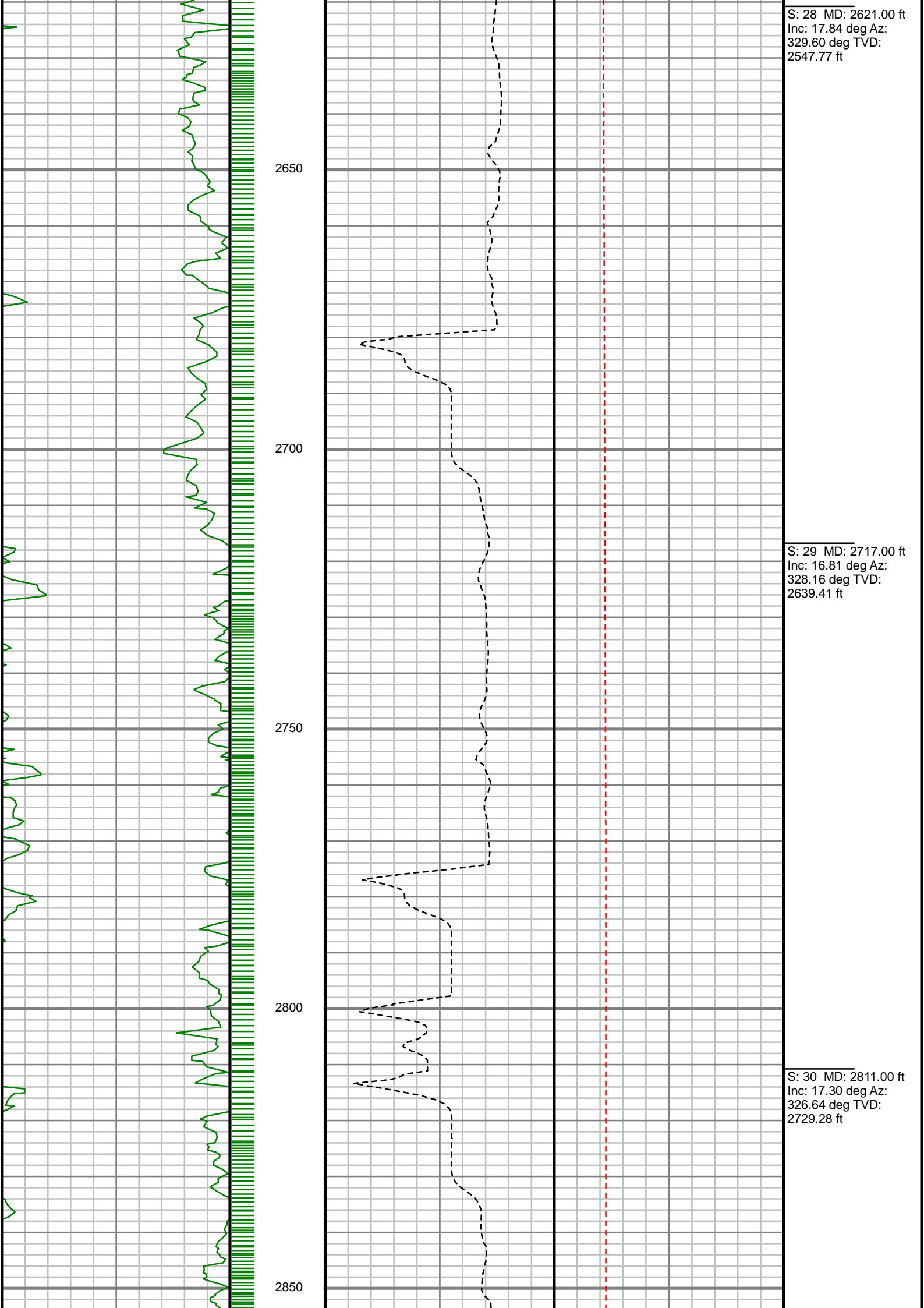
50 Unit = °F 300

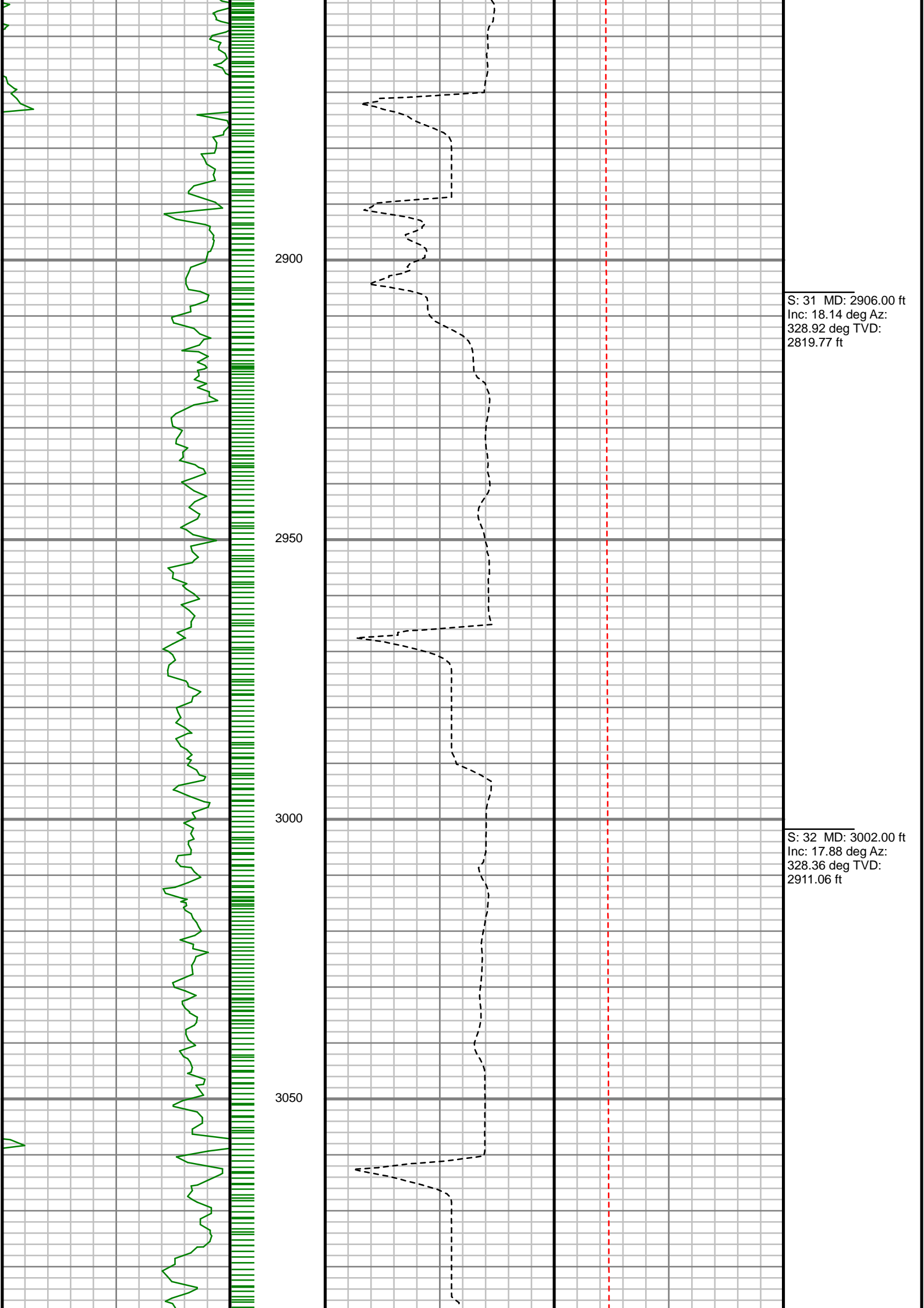
Comments

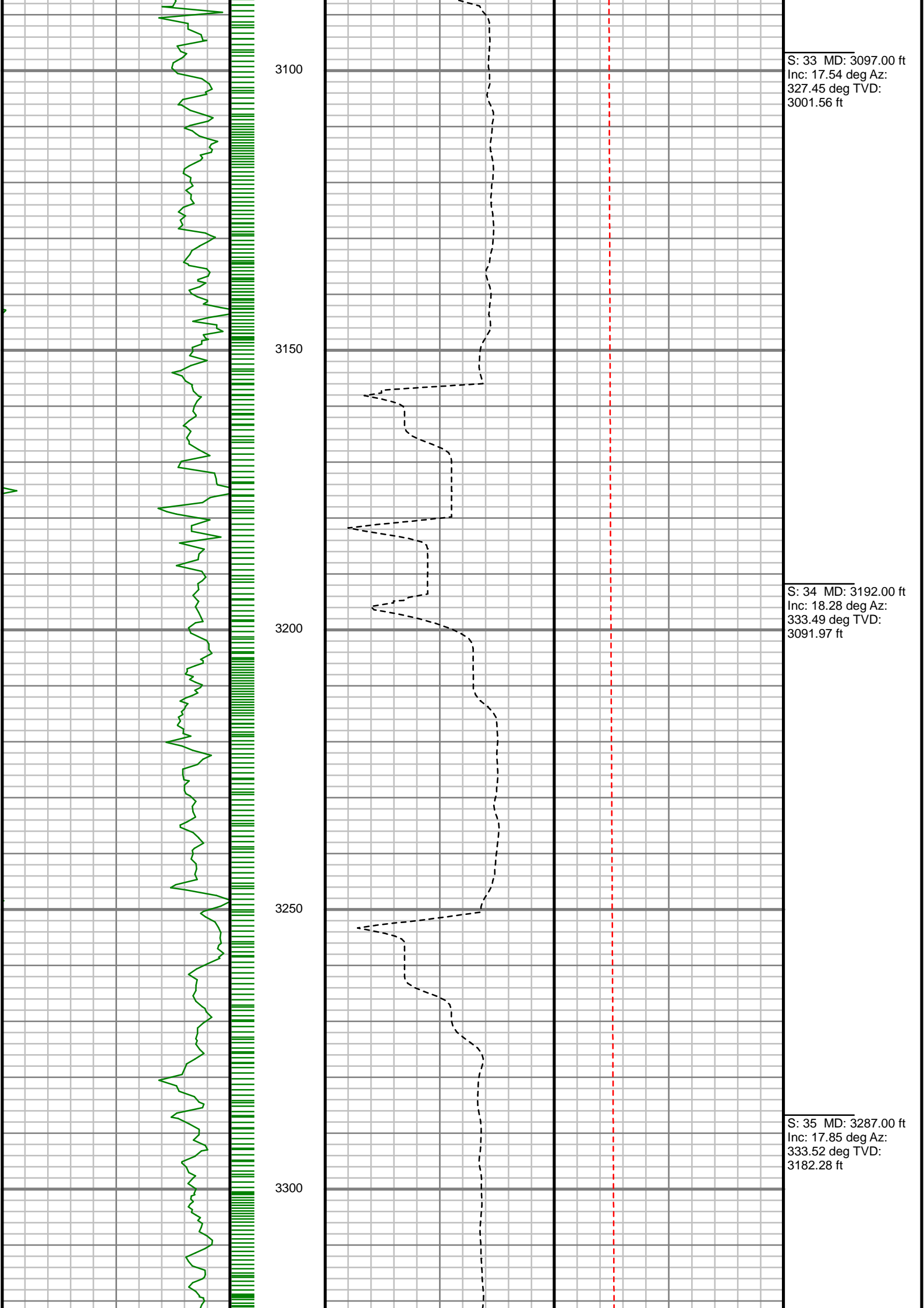


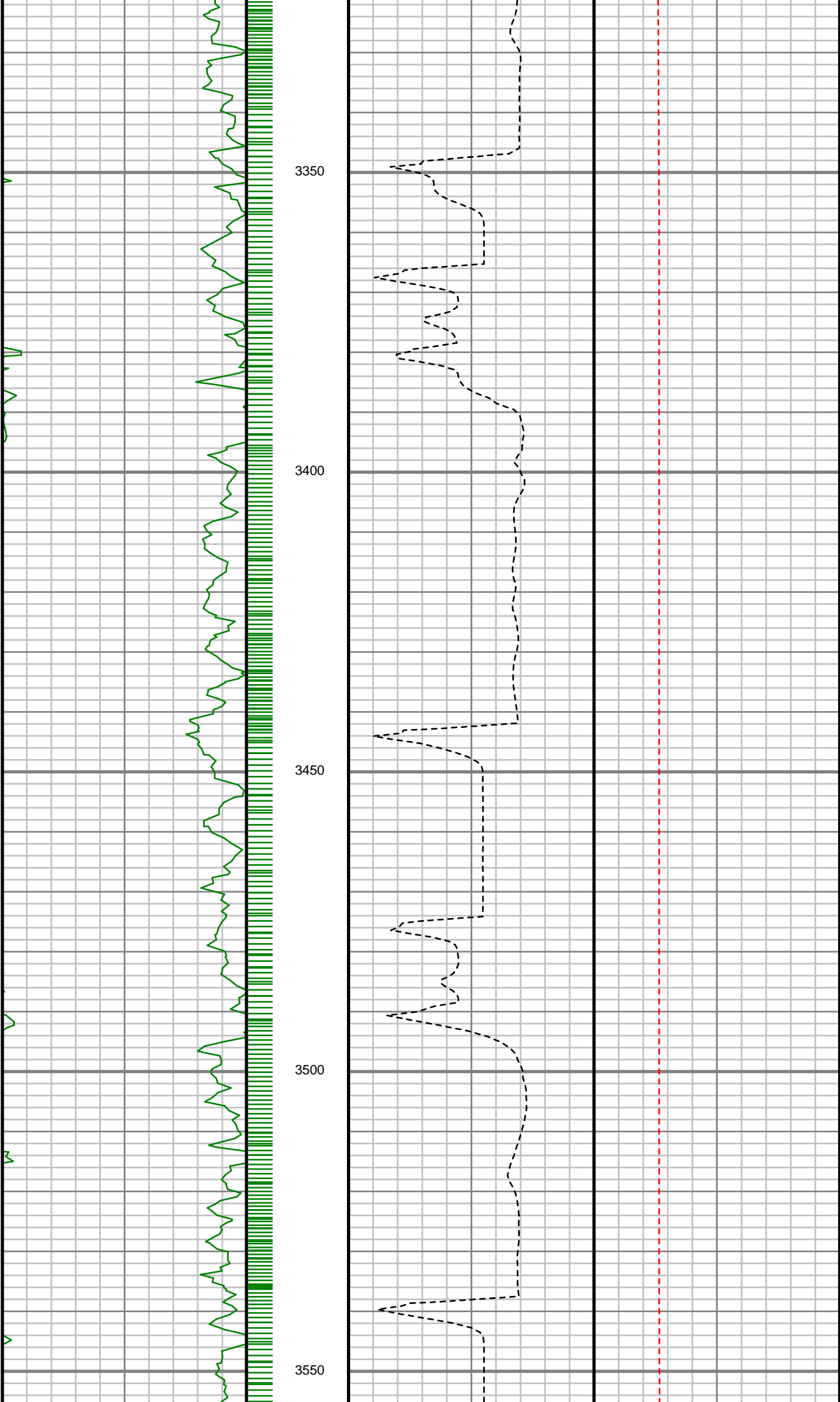






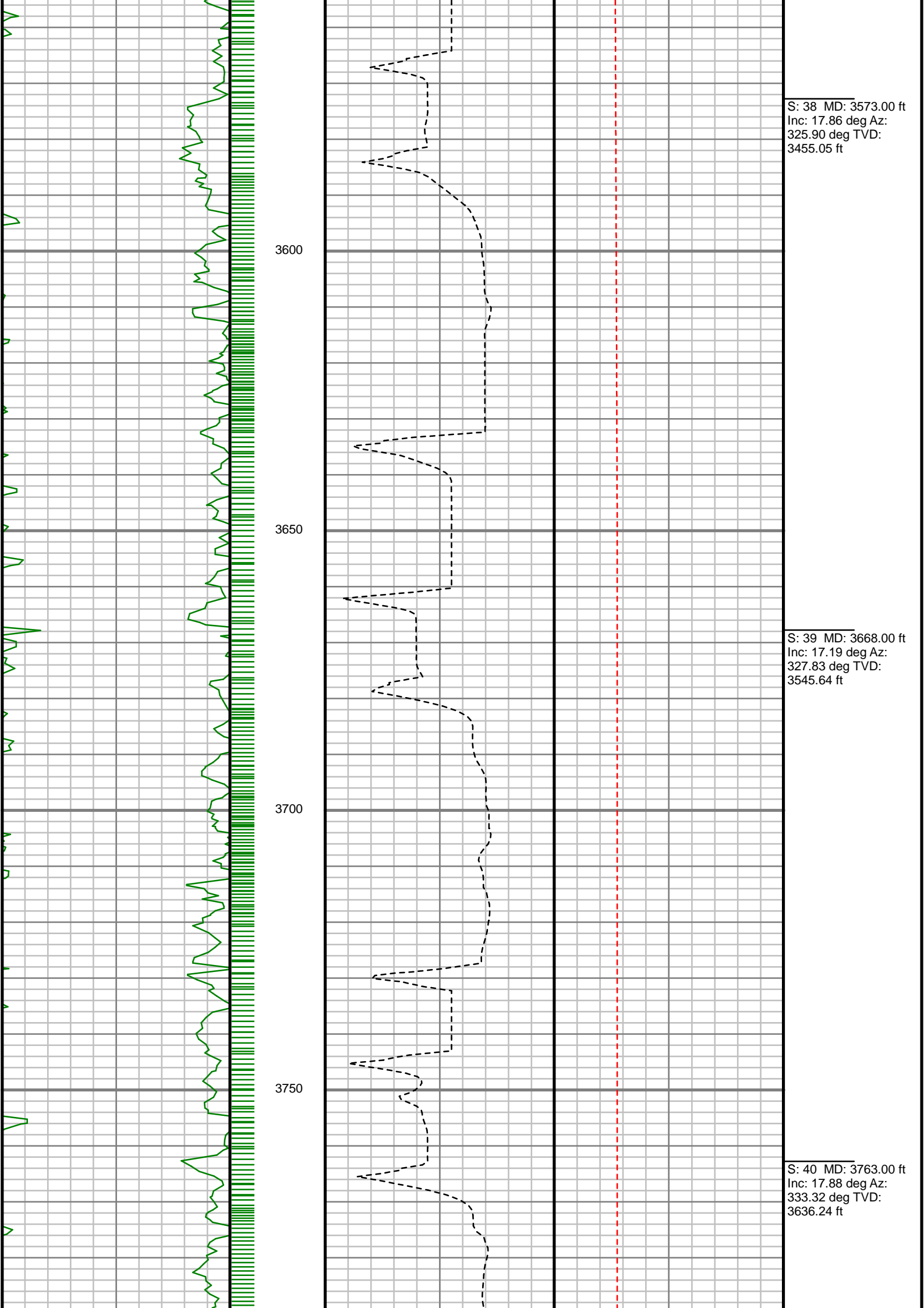






S: 36 MD: 3382.00 ft
Inc: 17.33 deg Az:
330.55 deg TVD:
3272.85 ft

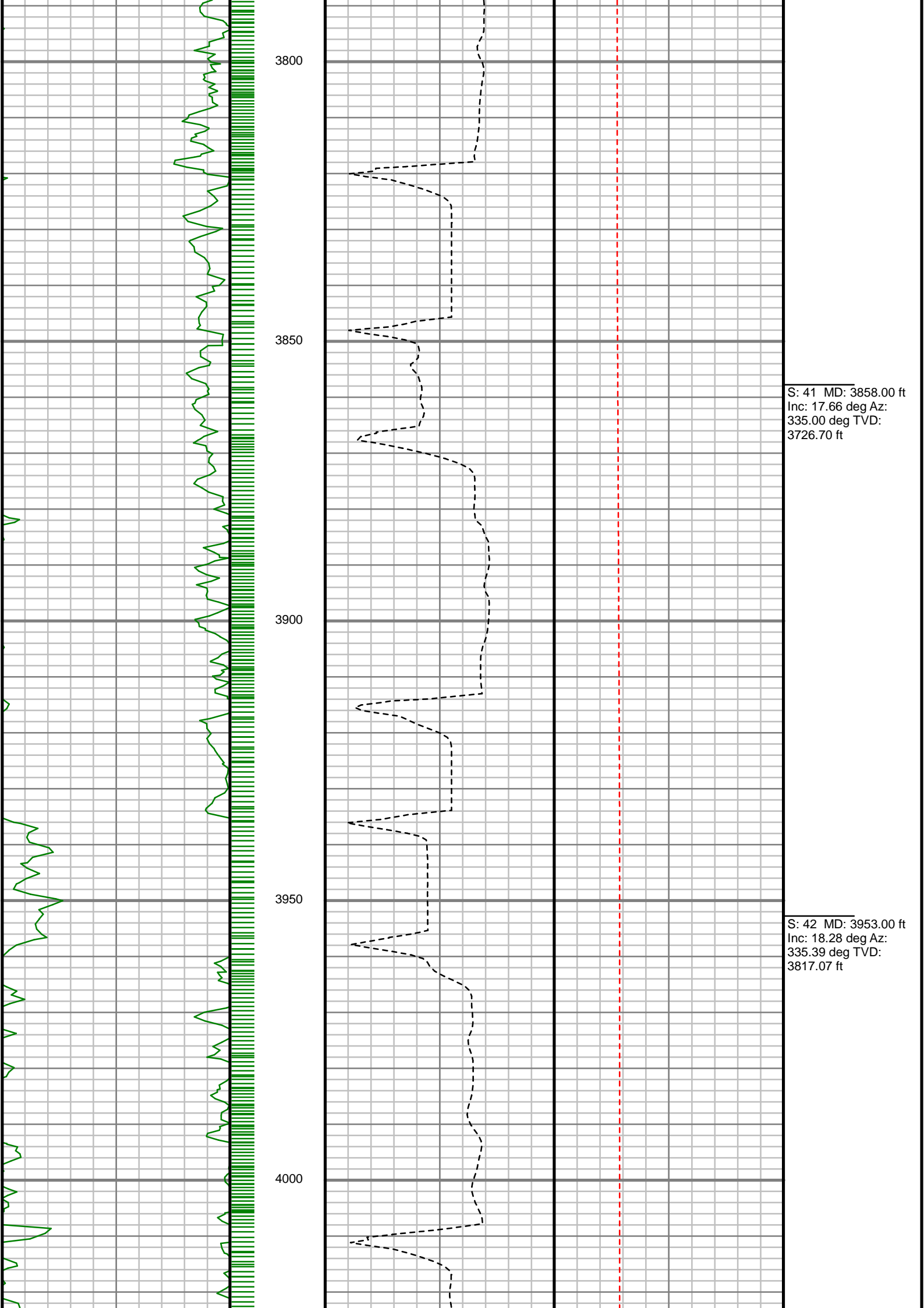
S: 37 MD: 3478.00 ft
Inc: 17.31 deg Az:
327.68 deg TVD:
3364.49 ft

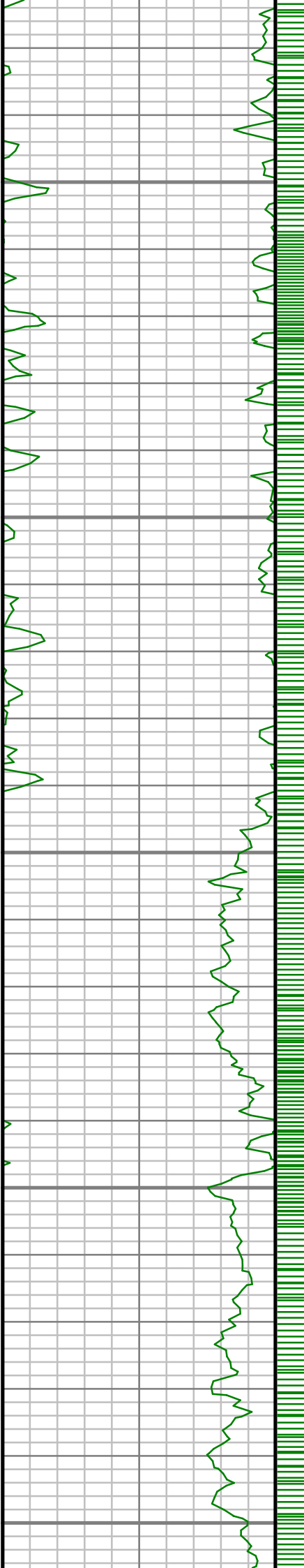


S: 38 MD: 3573.00 ft
Inc: 17.86 deg Az:
325.90 deg TVD:
3455.05 ft

S: 39 MD: 3668.00 ft
Inc: 17.19 deg Az:
327.83 deg TVD:
3545.64 ft

S: 40 MD: 3763.00 ft
Inc: 17.88 deg Az:
333.32 deg TVD:
3636.24 ft





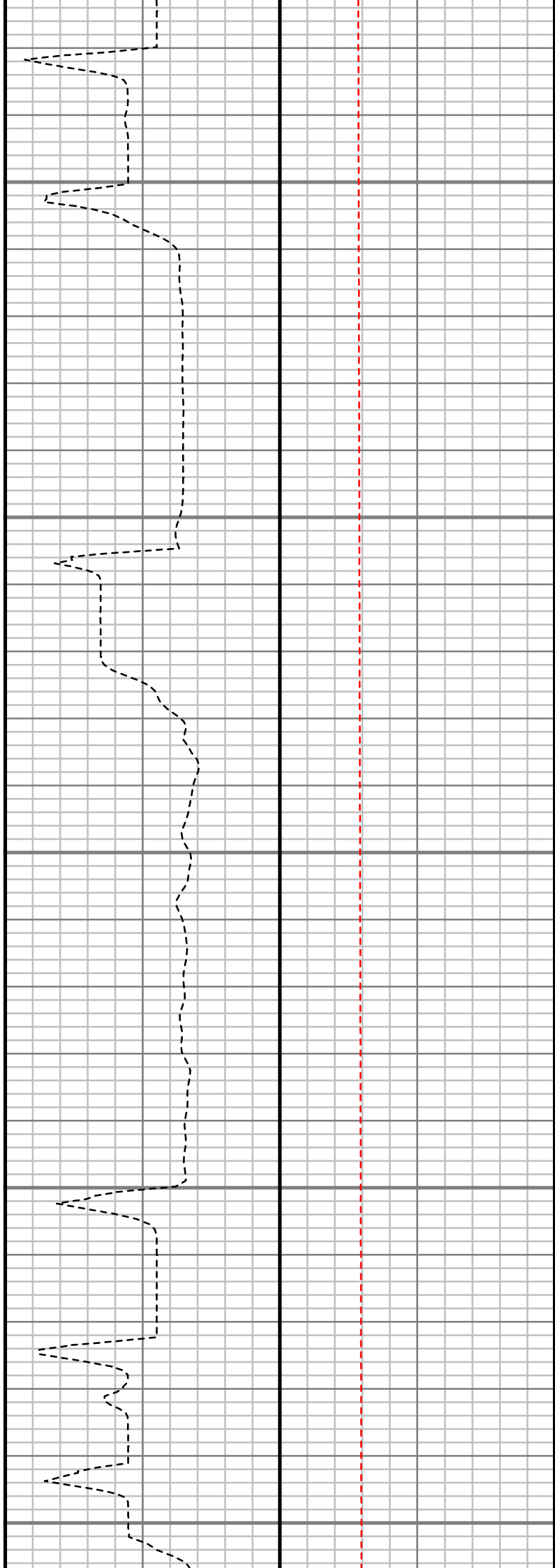
4050

4100

4150

4200

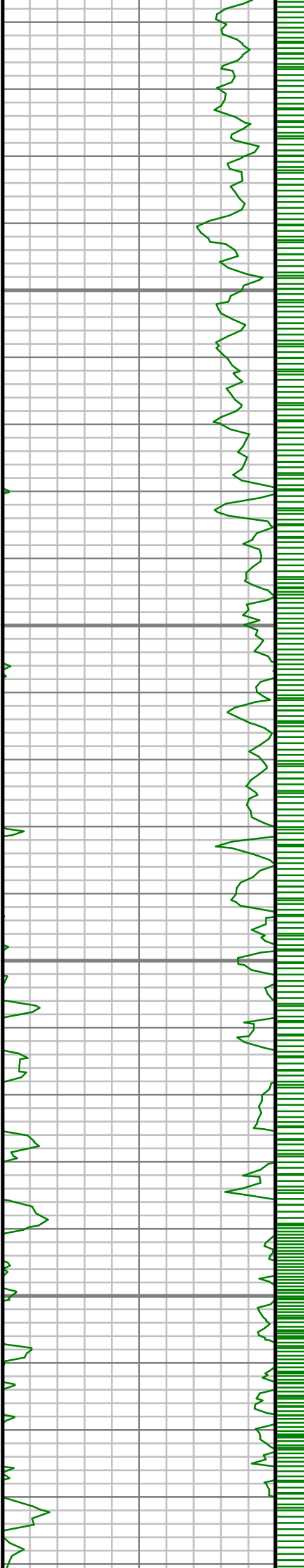
4250



S: 43 MD: 4048.00 ft
Inc: 19.04 deg Az:
331.86 deg TVD:
3907.08 ft

S: 44 MD: 4144.00 ft
Inc: 17.84 deg Az:
329.26 deg TVD:
3998.15 ft

S: 45 MD: 4239.00 ft
Inc: 18.93 deg Az:
333.48 deg TVD:
4088.30 ft



4300

4350

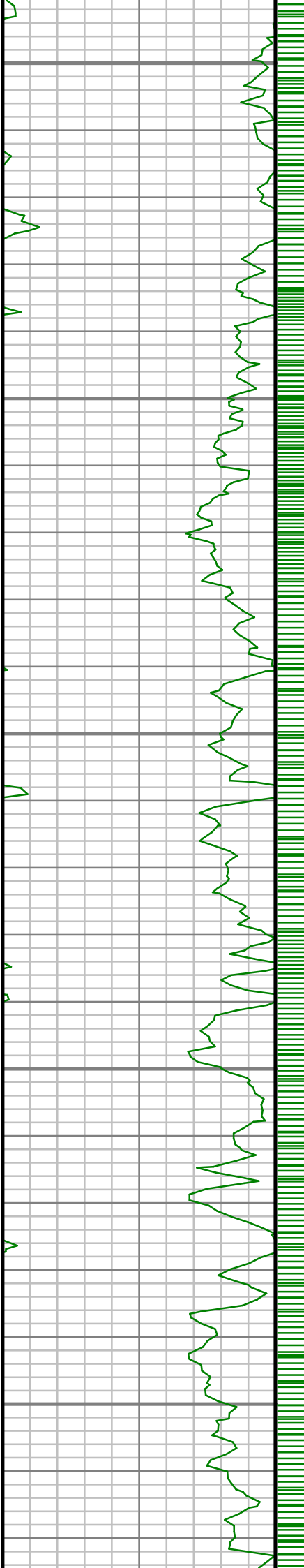
4400

4450



S: 46 MD: 4334.00 ft
Inc: 19.08 deg Az:
334.63 deg TVD:
4178.12 ft

S: 47 MD: 4429.00 ft
Inc: 16.94 deg Az:
331.61 deg TVD:
4268.46 ft



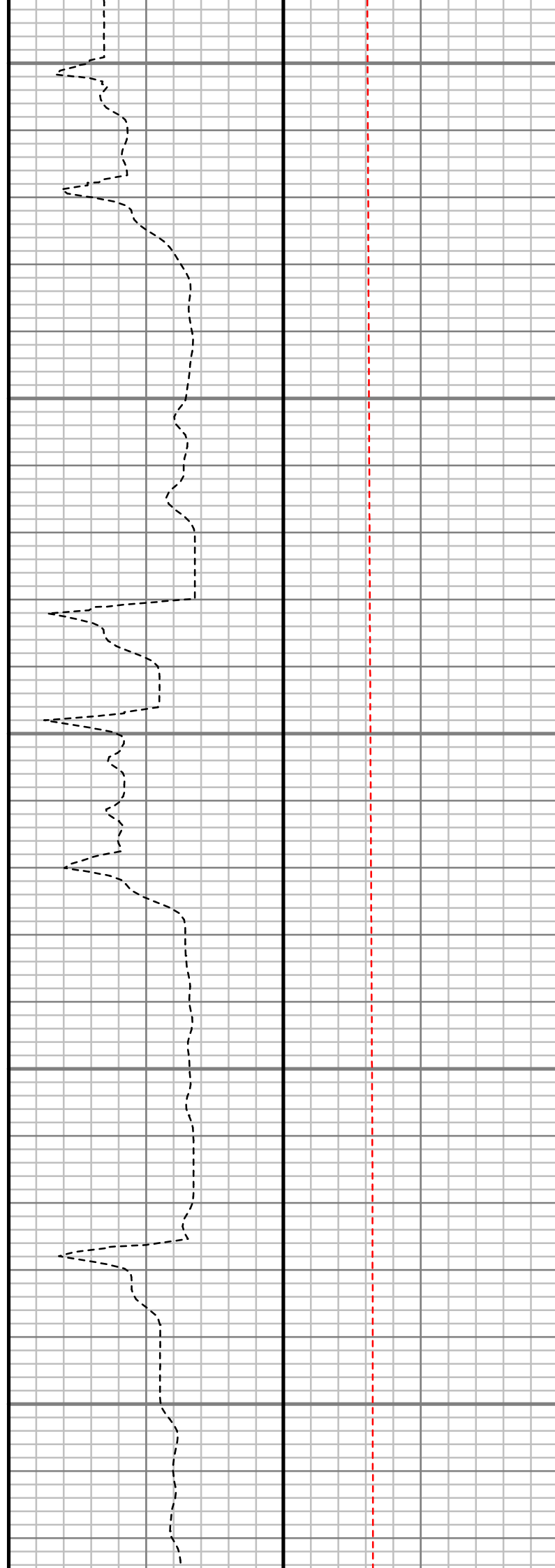
4500

4550

4600

4650

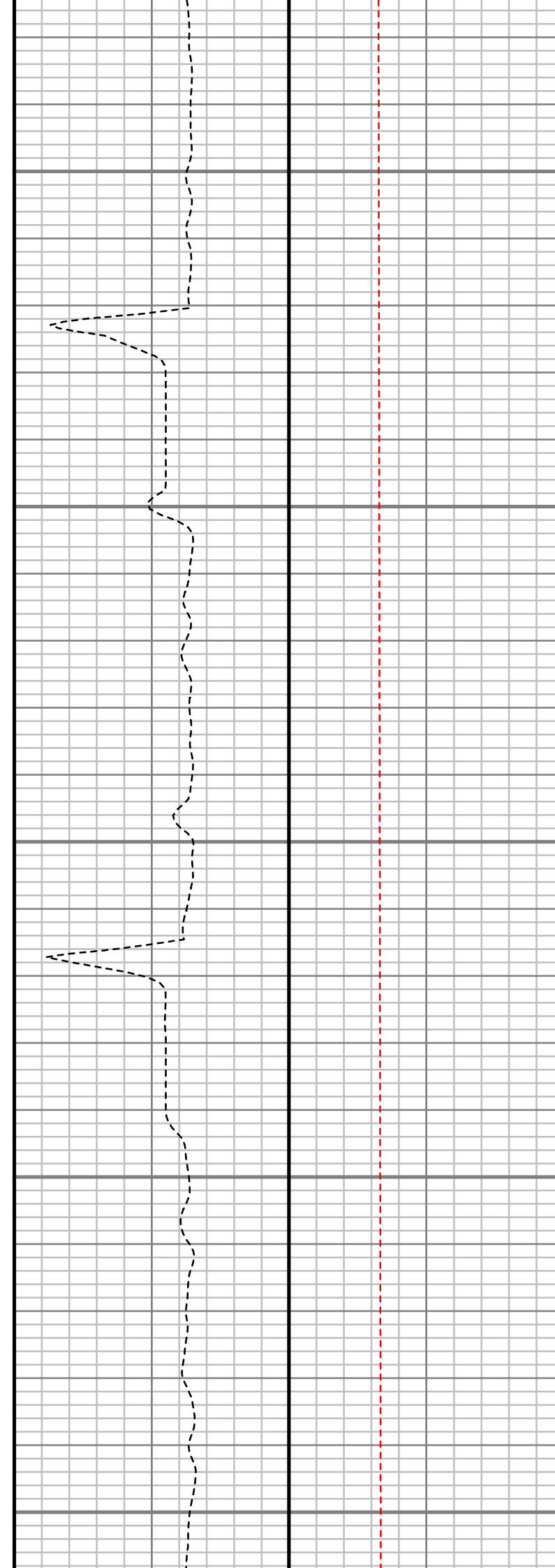
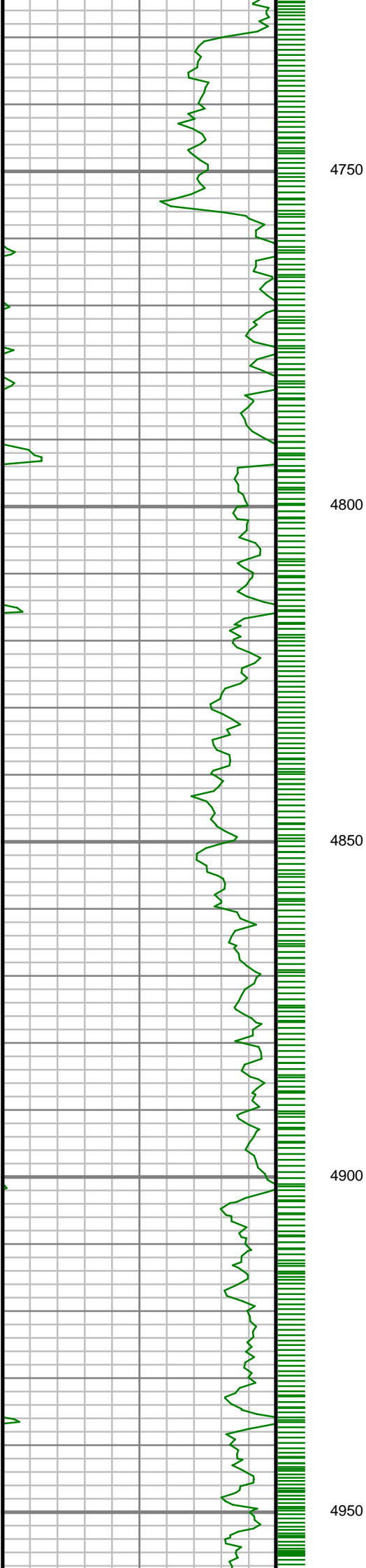
4700



S: 48 MD: 4524.00 ft
Inc: 16.12 deg Az:
334.33 deg TVD:
4359.54 ft

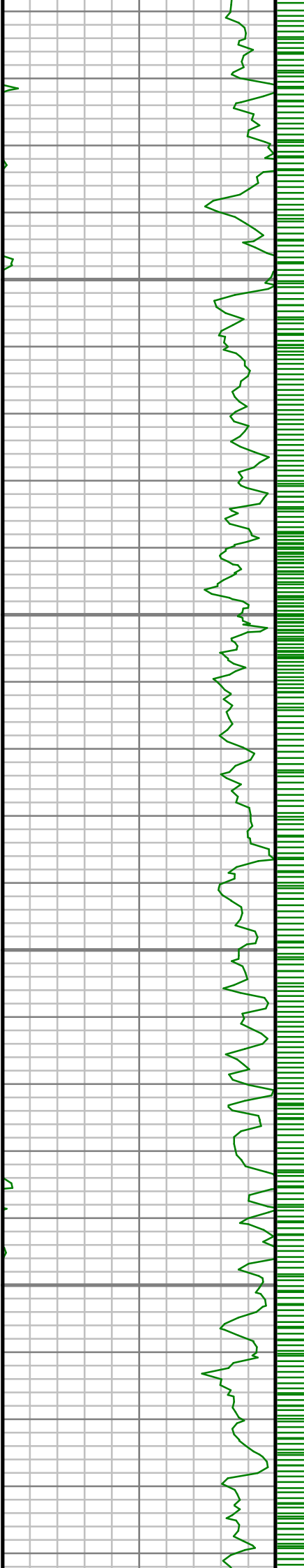
S: 49 MD: 4619.00 ft
Inc: 18.01 deg Az:
334.87 deg TVD:
4450.35 ft

S: 50 MD: 4714.00 ft
Inc: 17.84 deg Az:
332.63 deg TVD:
4540.74 ft



S: 51 MD: 4809.00 ft
Inc: 17.74 deg Az:
331.22 deg TVD:
4631.20 ft

S: 52 MD: 4904.00 ft
Inc: 17.33 deg Az:
330.02 deg TVD:
4721.79 ft

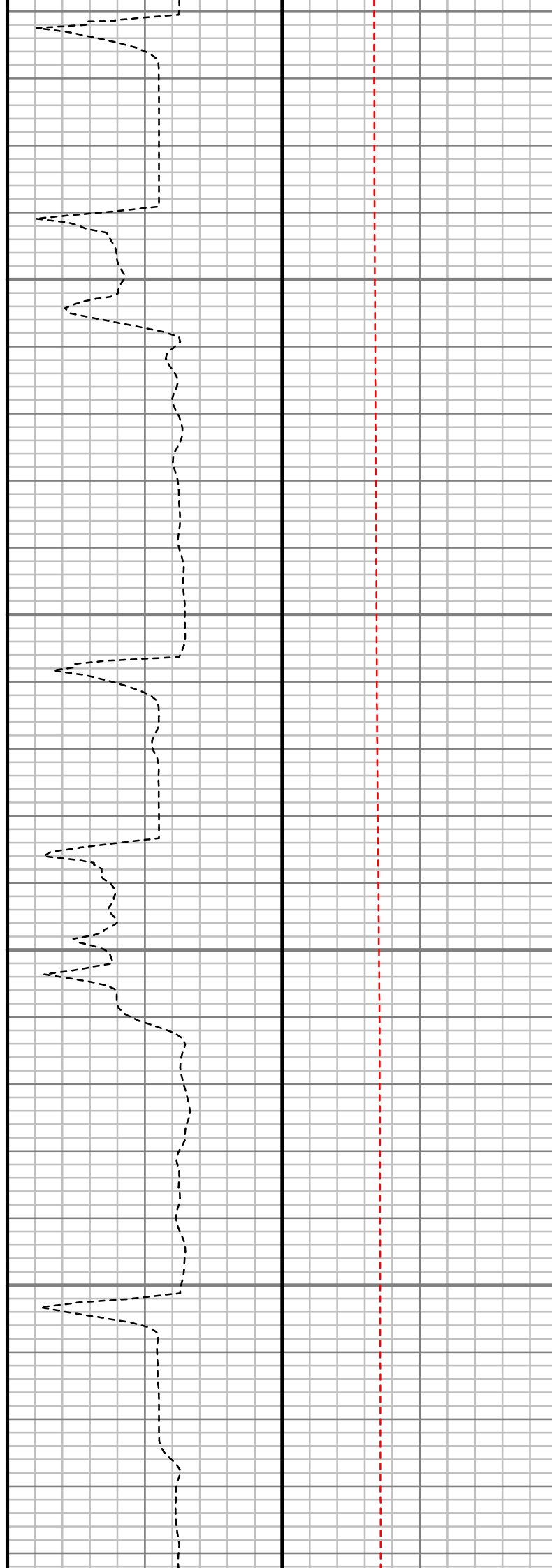


5000

5050

5100

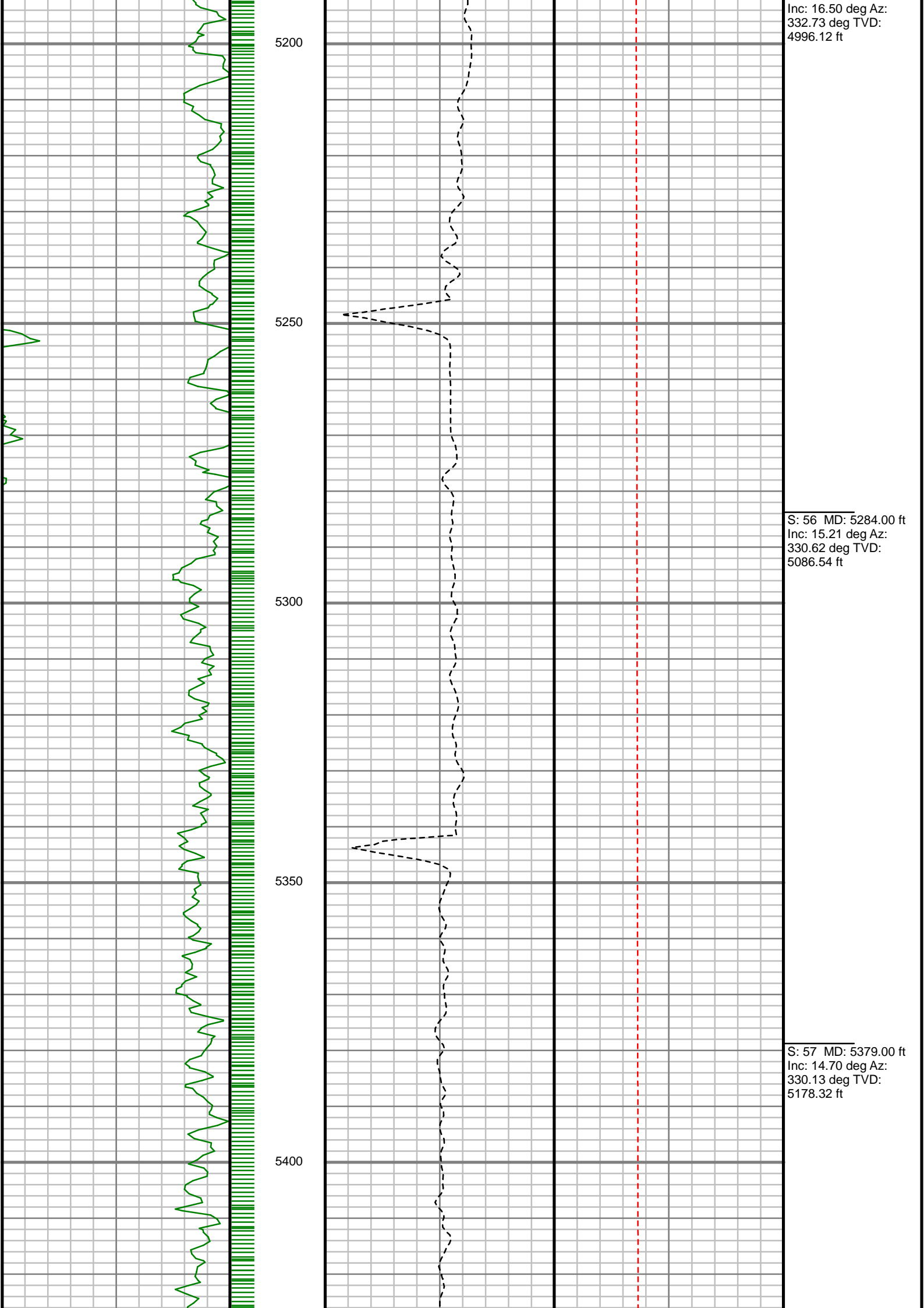
5150

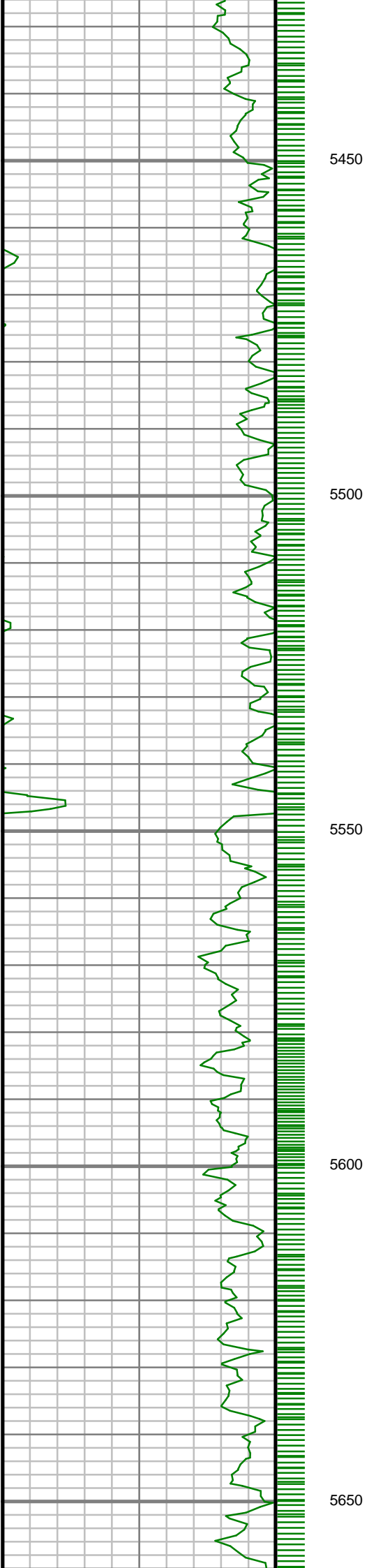


S: 53 MD: 4999.00 ft
Inc: 15.57 deg Az:
333.48 deg TVD:
4812.90 ft

S: 54 MD: 5094.00 ft
Inc: 16.77 deg Az:
334.94 deg TVD:
4904.14 ft

S: 55 MD: 5190.00 ft





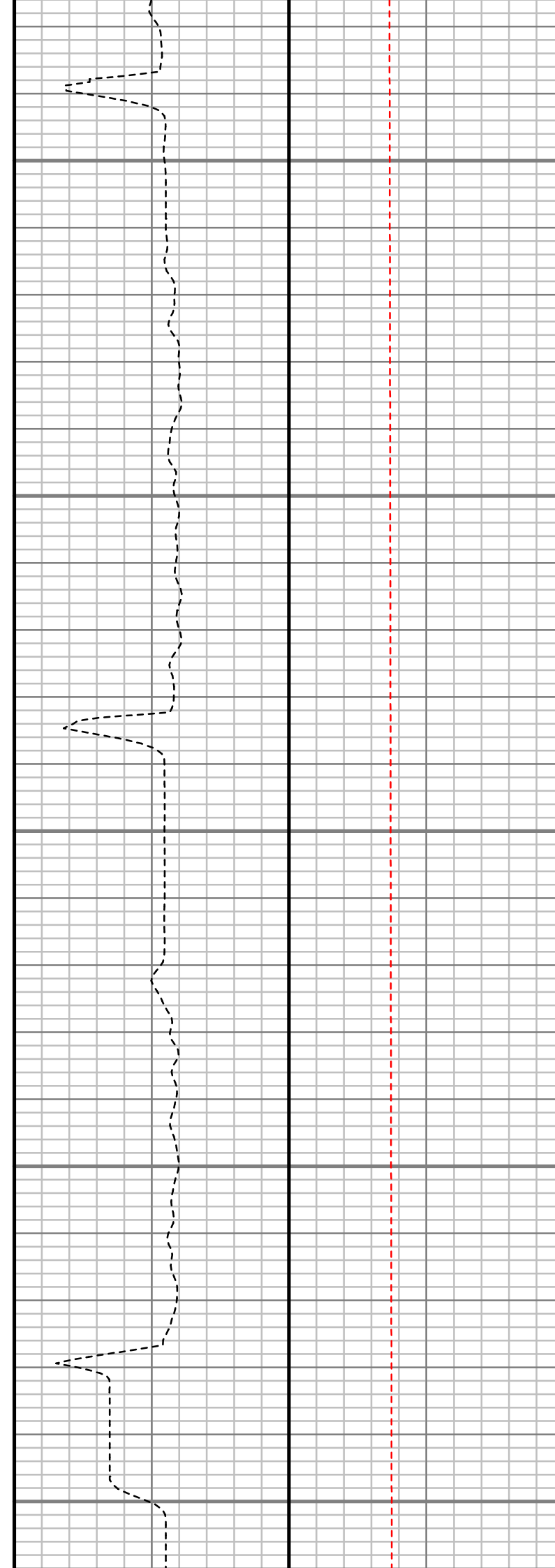
5450

5500

5550

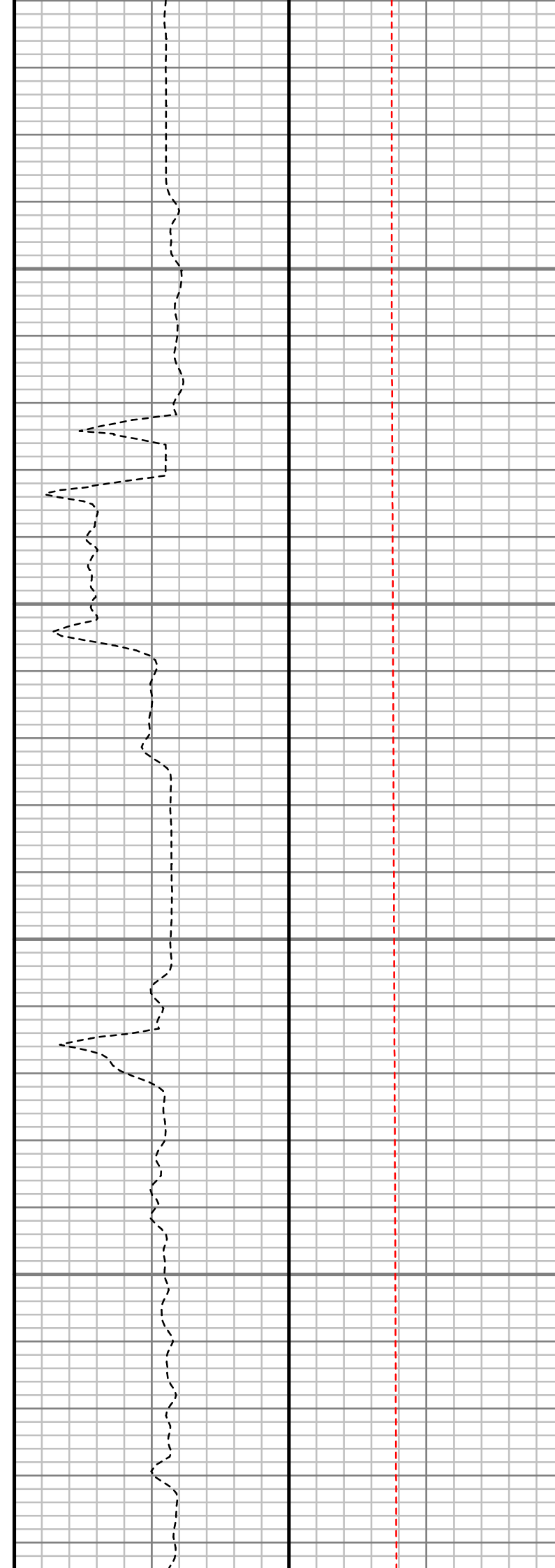
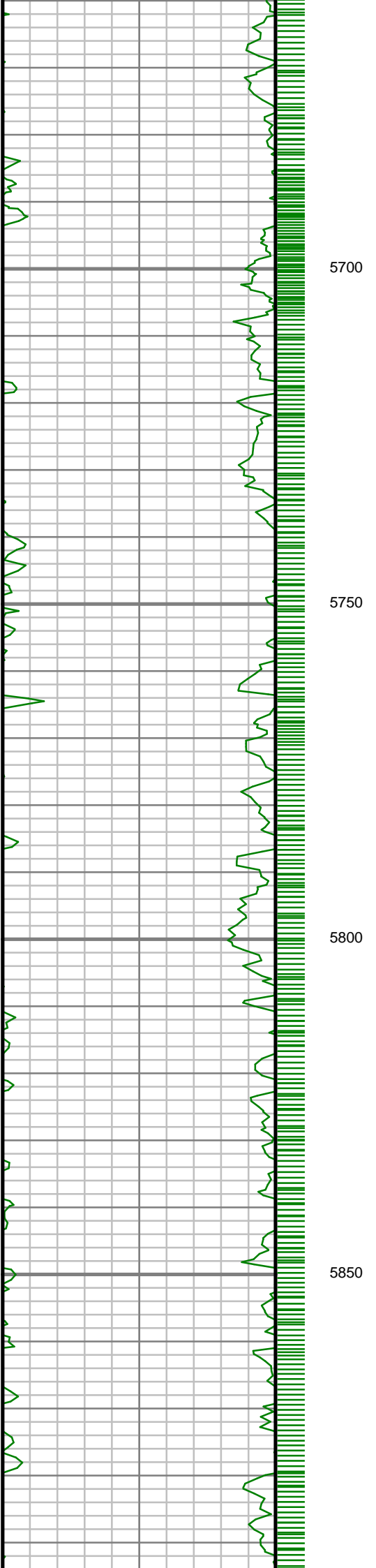
5600

5650

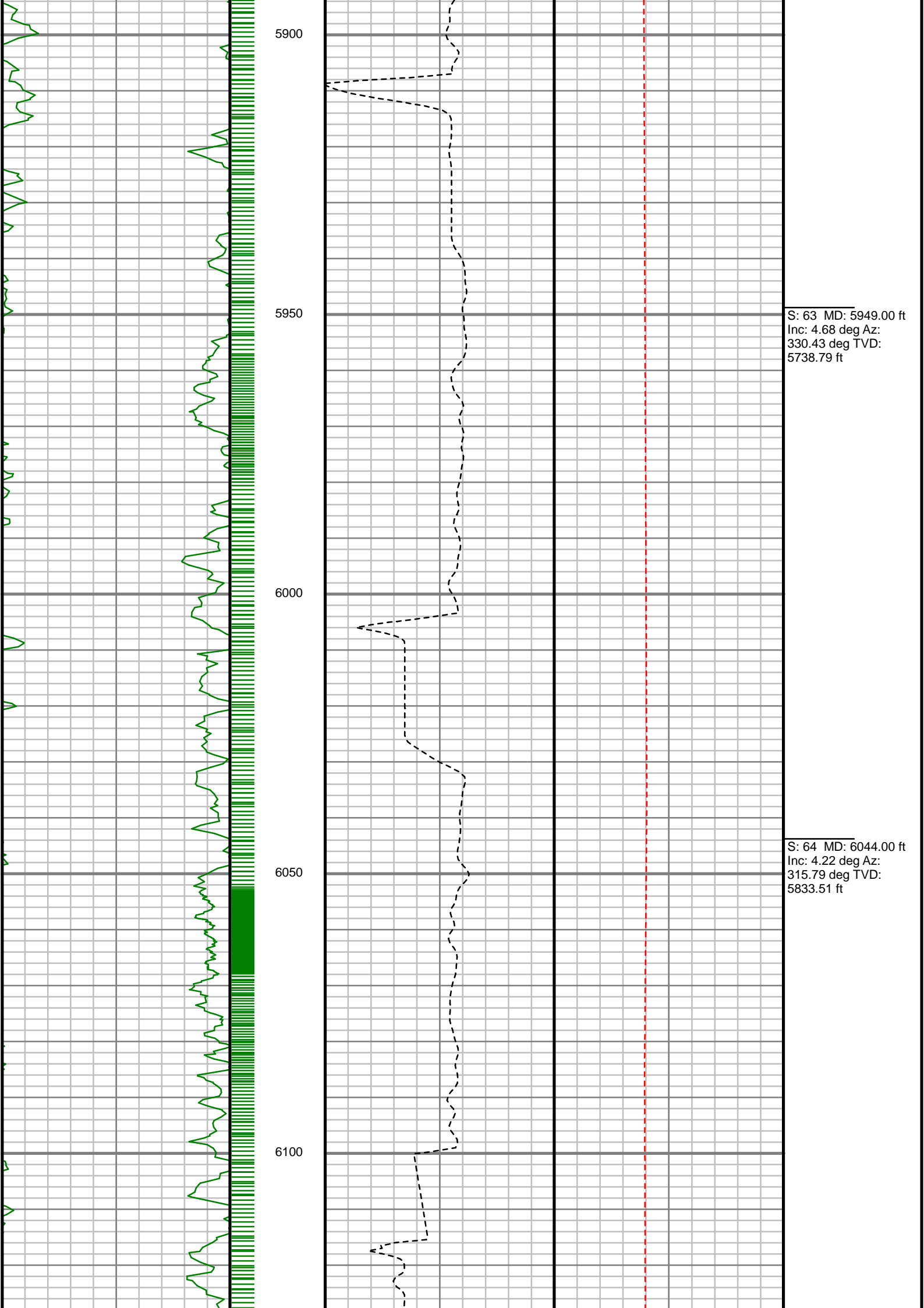


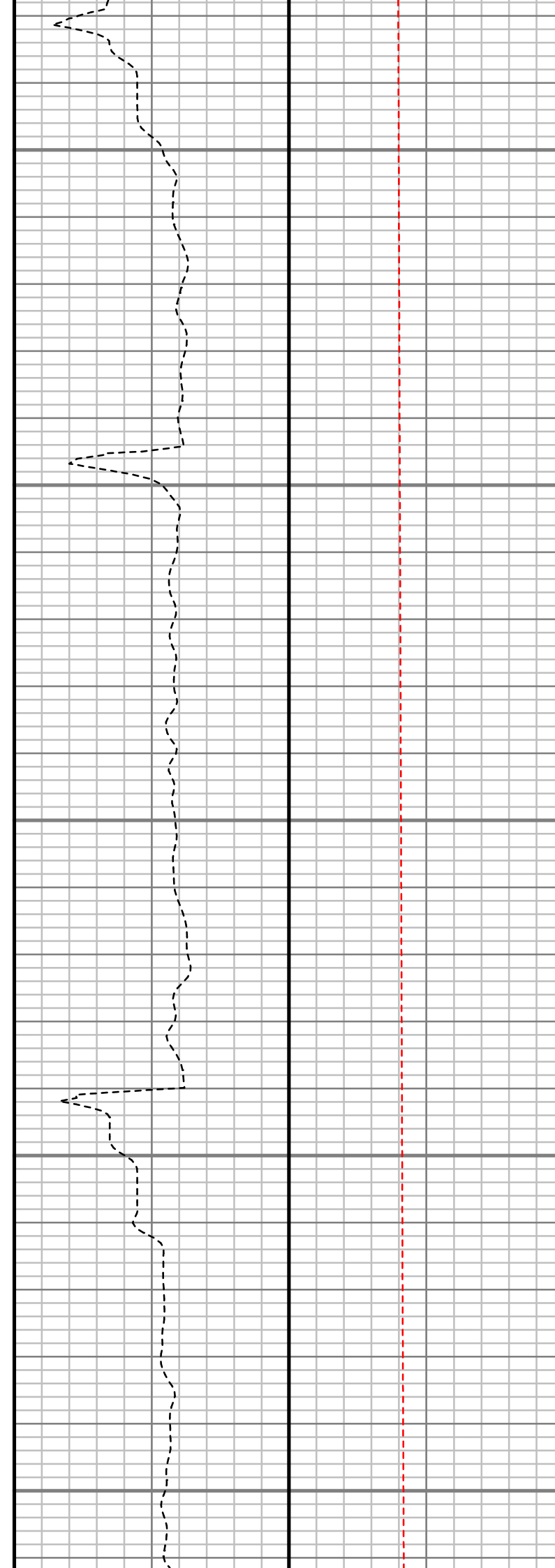
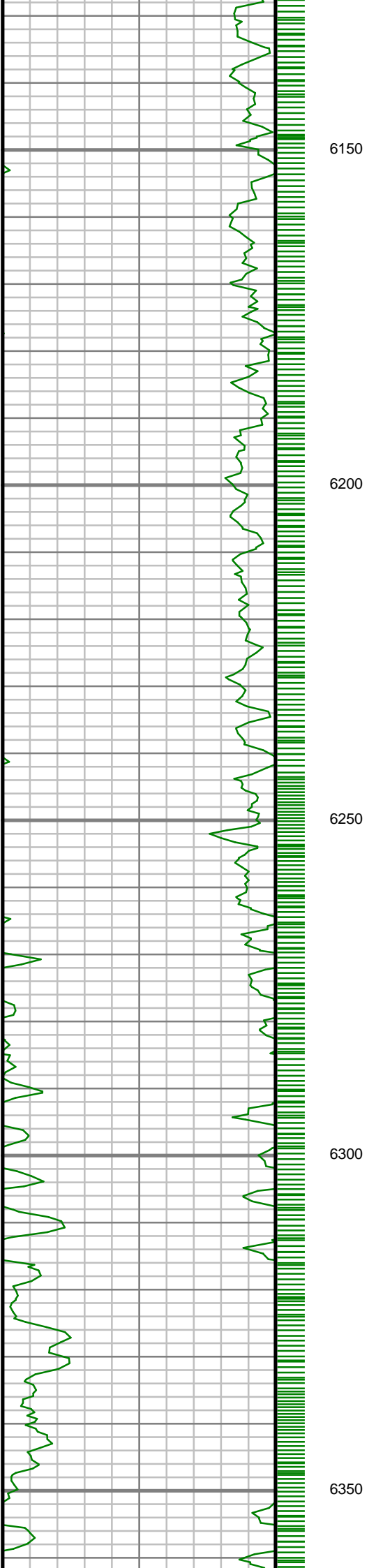
S: 58 MD: 5475.00 ft
Inc: 13.63 deg Az:
329.44 deg TVD:
5271.40 ft

S: 59 MD: 5569.00 ft
Inc: 12.21 deg Az:
328.35 deg TVD:
5363.02 ft



S: 60 MD: 5663.00 ft Inc: 11.22 deg Az: 326.83 deg TVD: 5455.06 ft
S: 61 MD: 5759.00 ft Inc: 7.20 deg Az: 336.24 deg TVD: 5549.81 ft
S: 62 MD: 5853.00 ft Inc: 5.84 deg Az: 336.14 deg TVD: 5643.20 ft

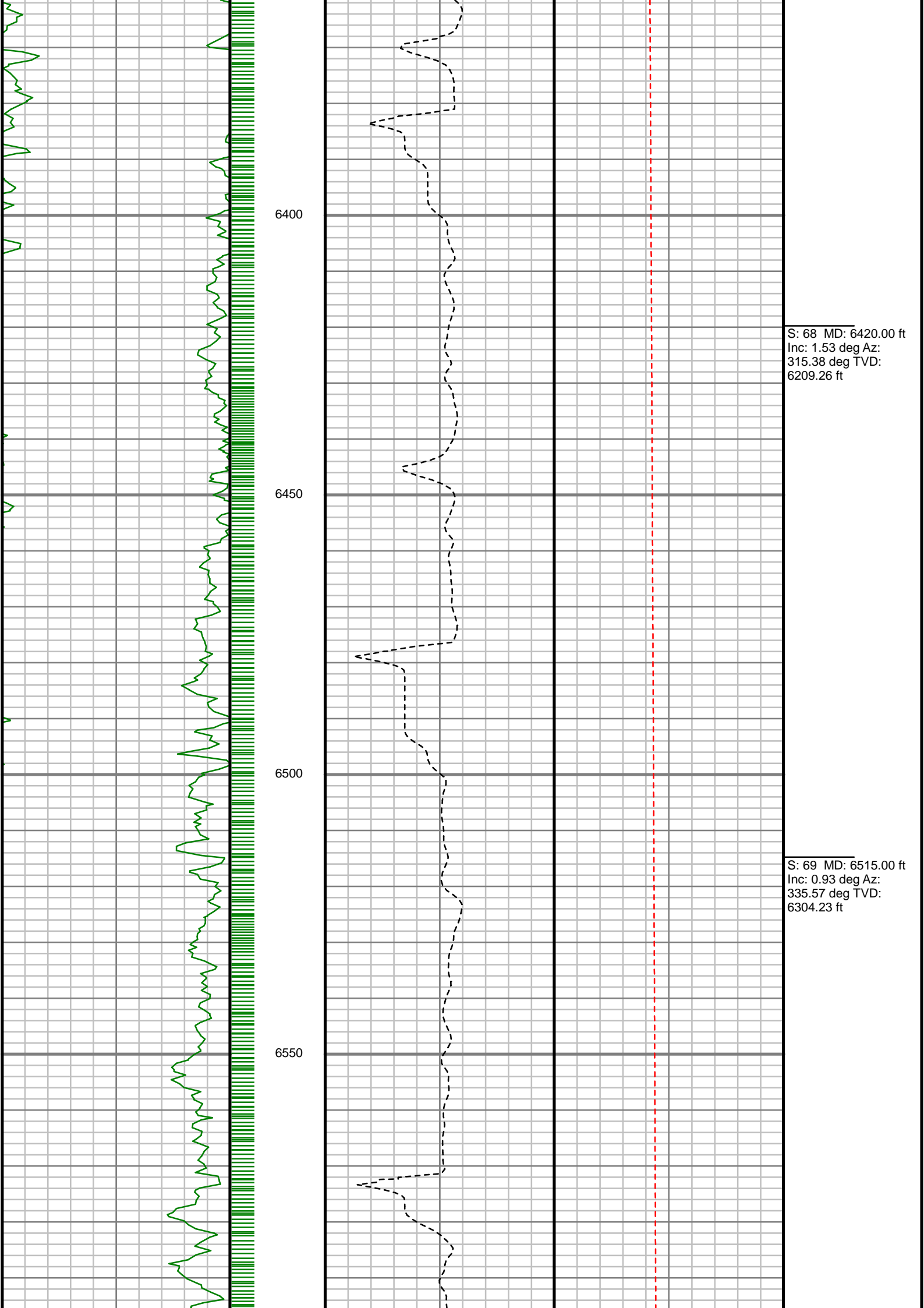


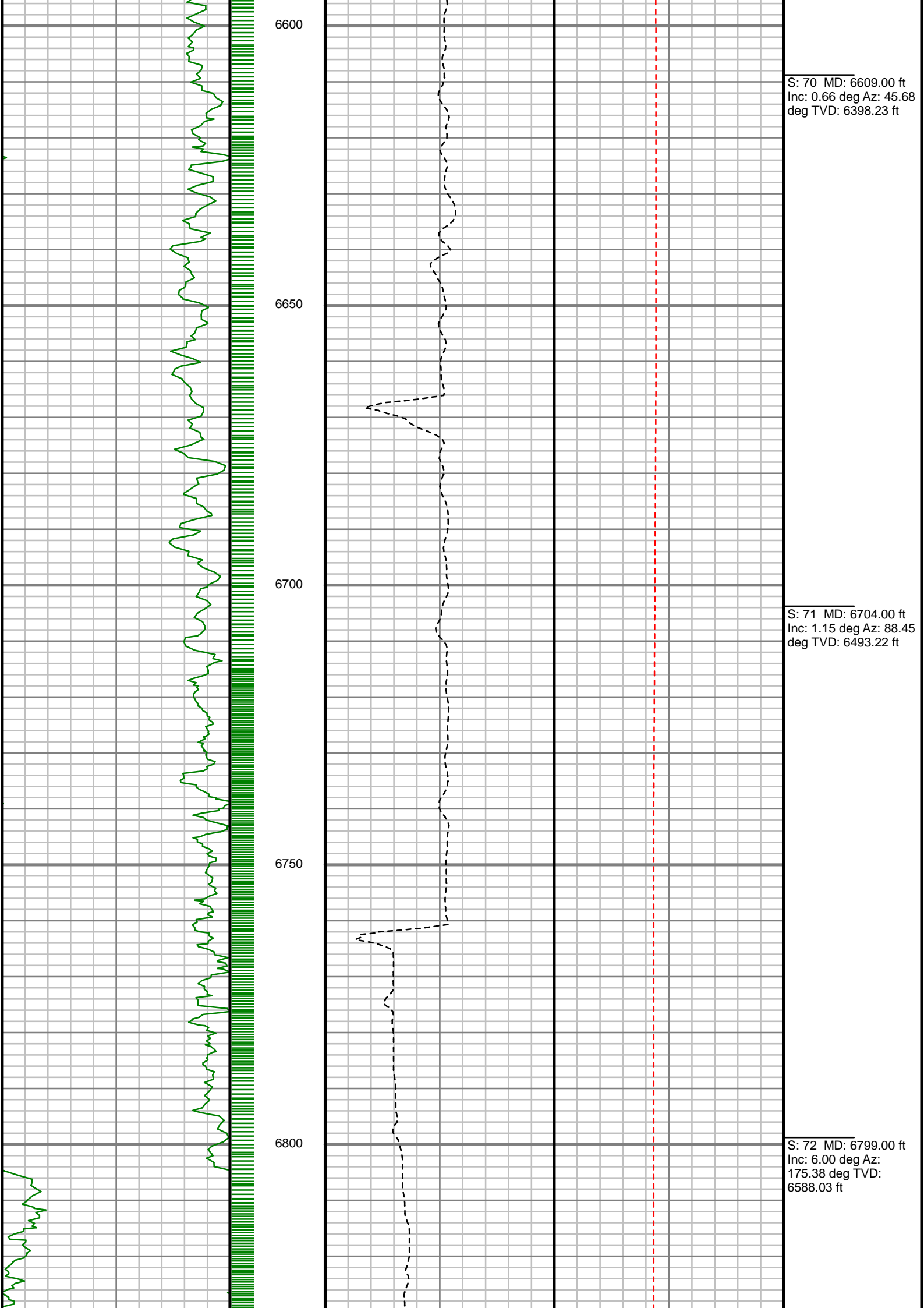


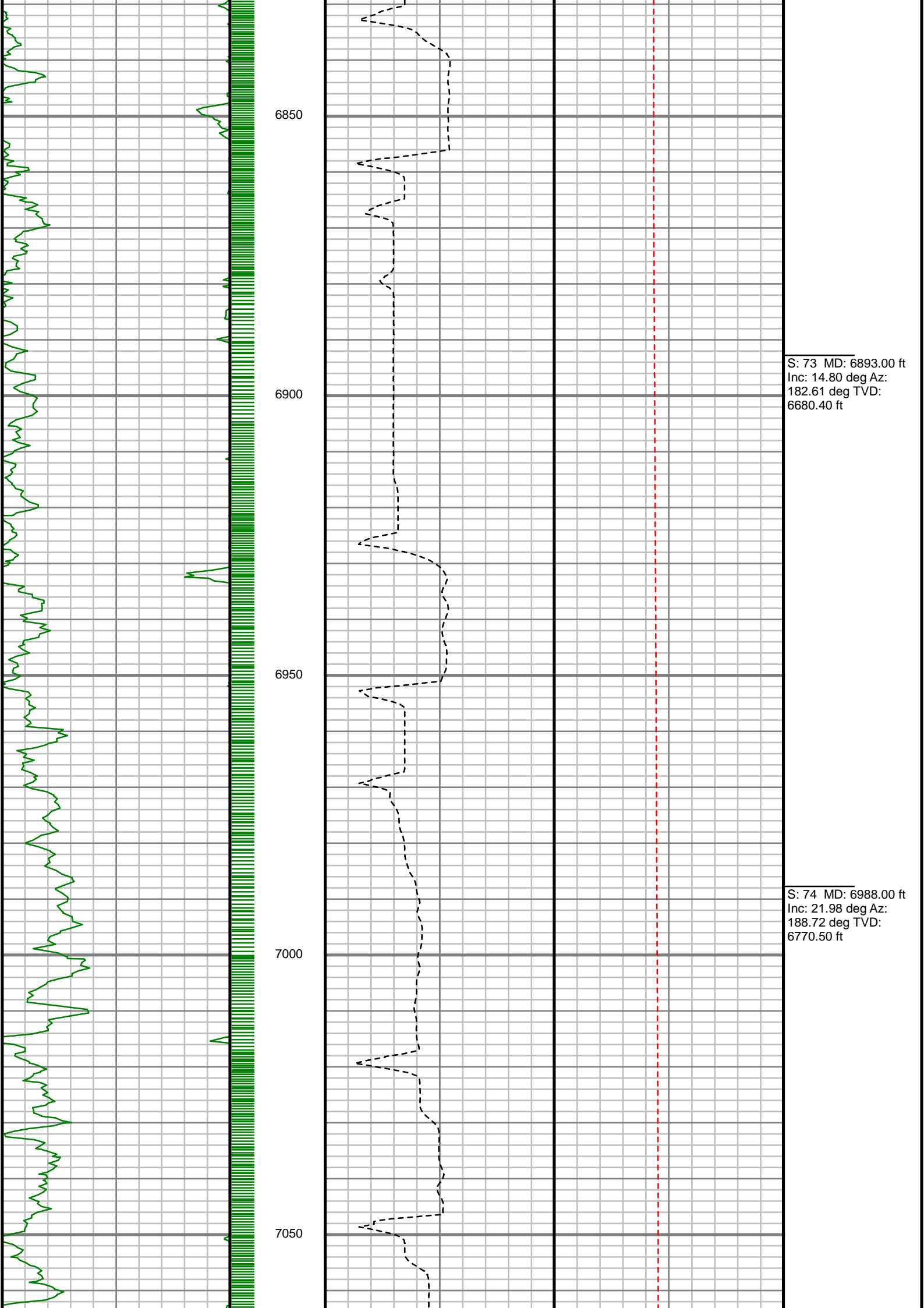
S: 65 MD: 6138.00 ft
Inc: 1.68 deg Az:
308.97 deg TVD:
5927.38 ft

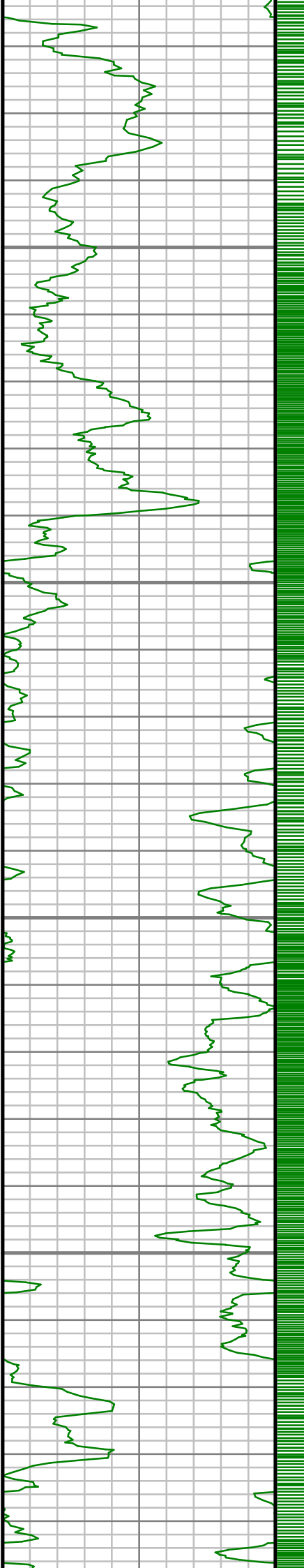
S: 66 MD: 6232.00 ft
Inc: 2.15 deg Az:
295.58 deg TVD:
6021.32 ft

S: 67 MD: 6325.00 ft
Inc: 1.21 deg Az:
305.32 deg TVD:
6114.28 ft







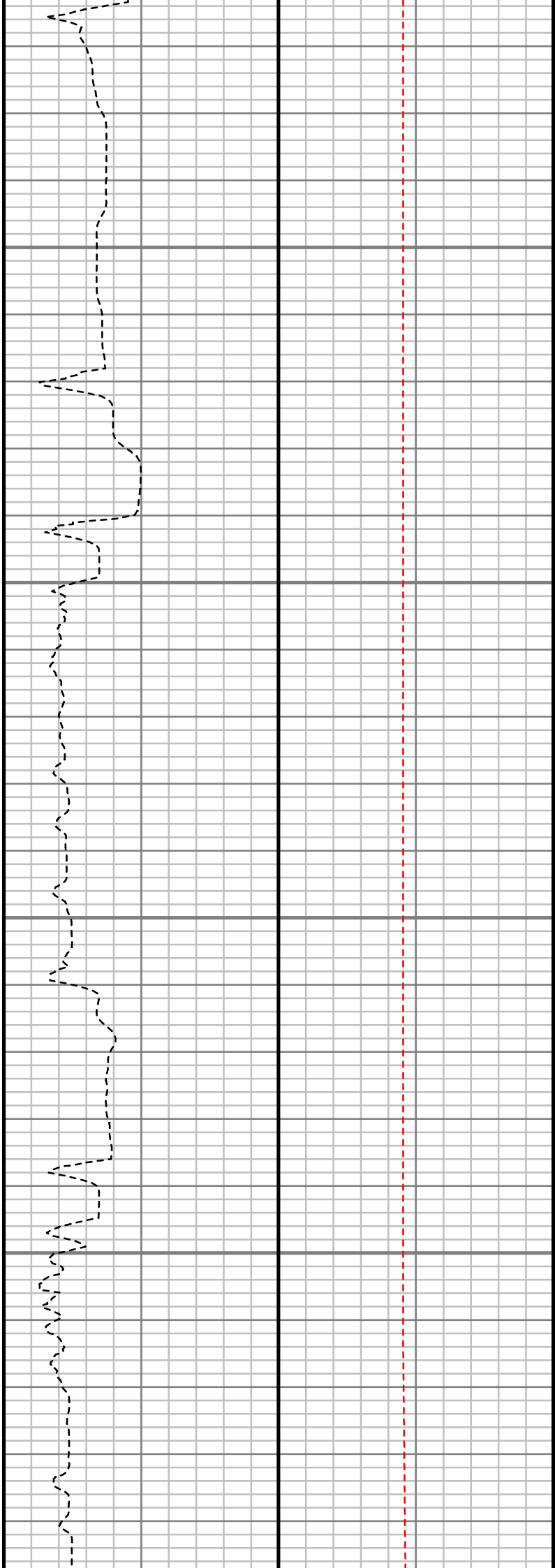


7100

7150

7200

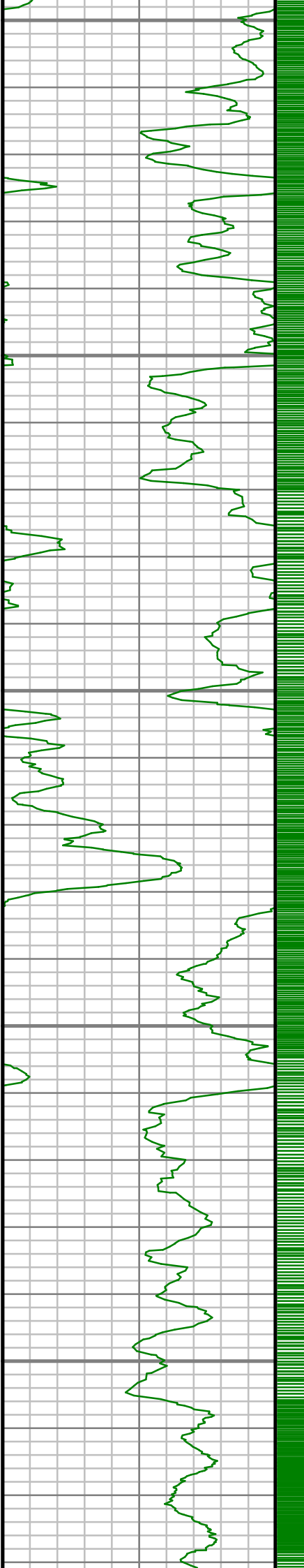
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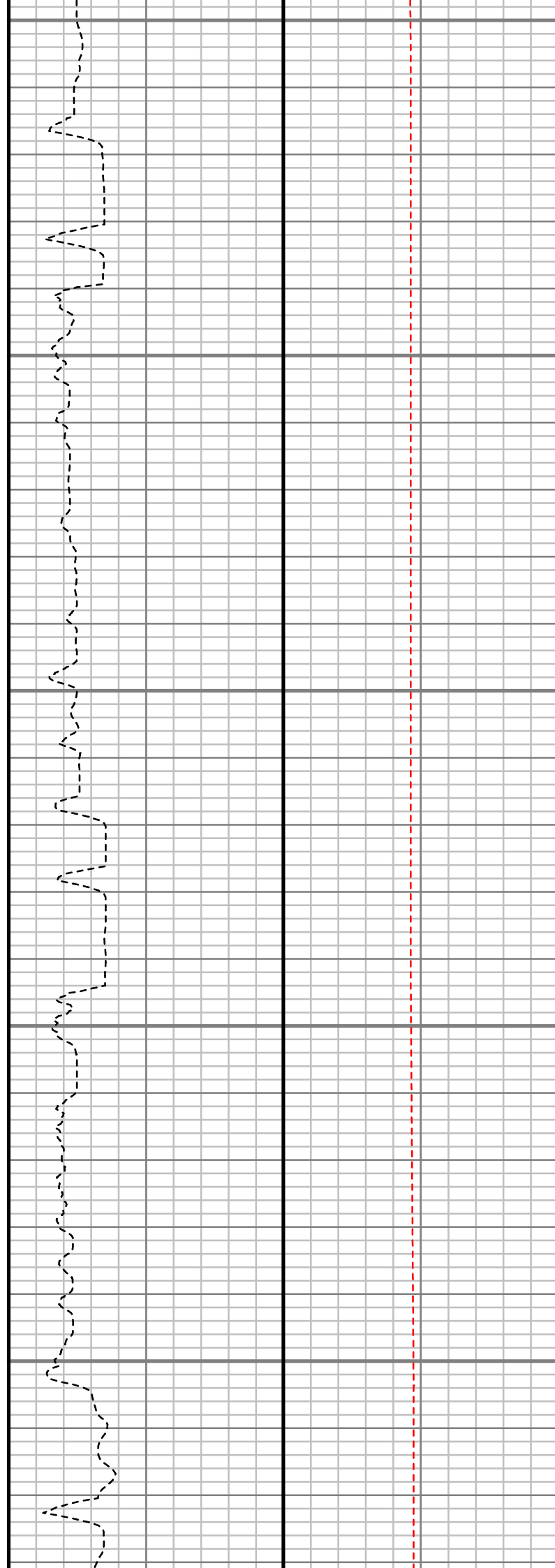
S: 75 MD: 7082.00 ft
Inc: 27.04 deg Az:
181.64 deg TVD:
6856.02 ft

S: 76 MD: 7177.00 ft
Inc: 36.22 deg Az:
174.66 deg TVD:
6936.85 ft

S: 77 MD: 7271.00 ft
Inc: 41.64 deg Az:
175.44 deg TVD:
7009.95 ft

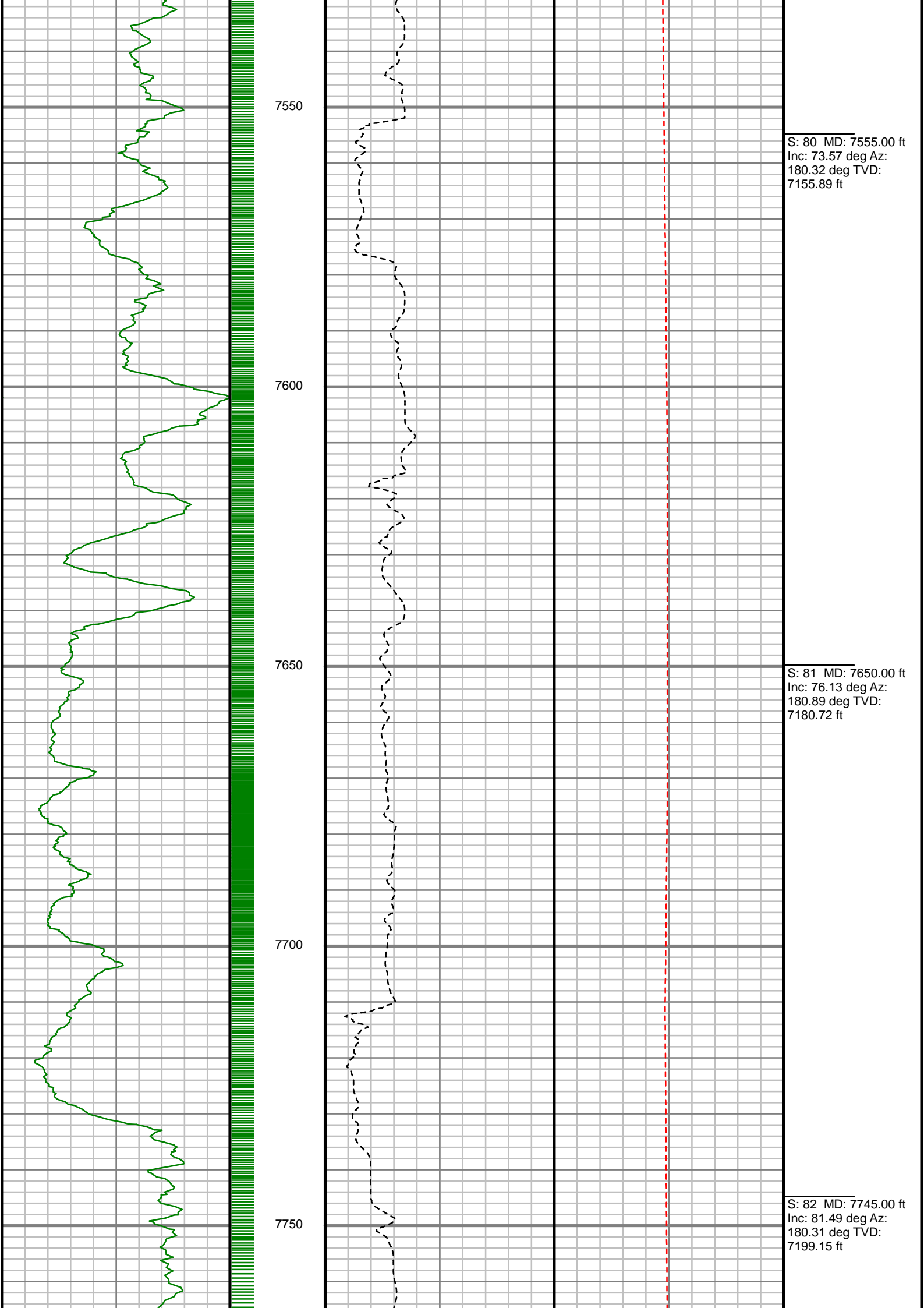


7300
7350
7400
7450
7500



S: 78 MD: 7366.00 ft
Inc: 52.91 deg Az:
176.68 deg TVD:
7074.30 ft

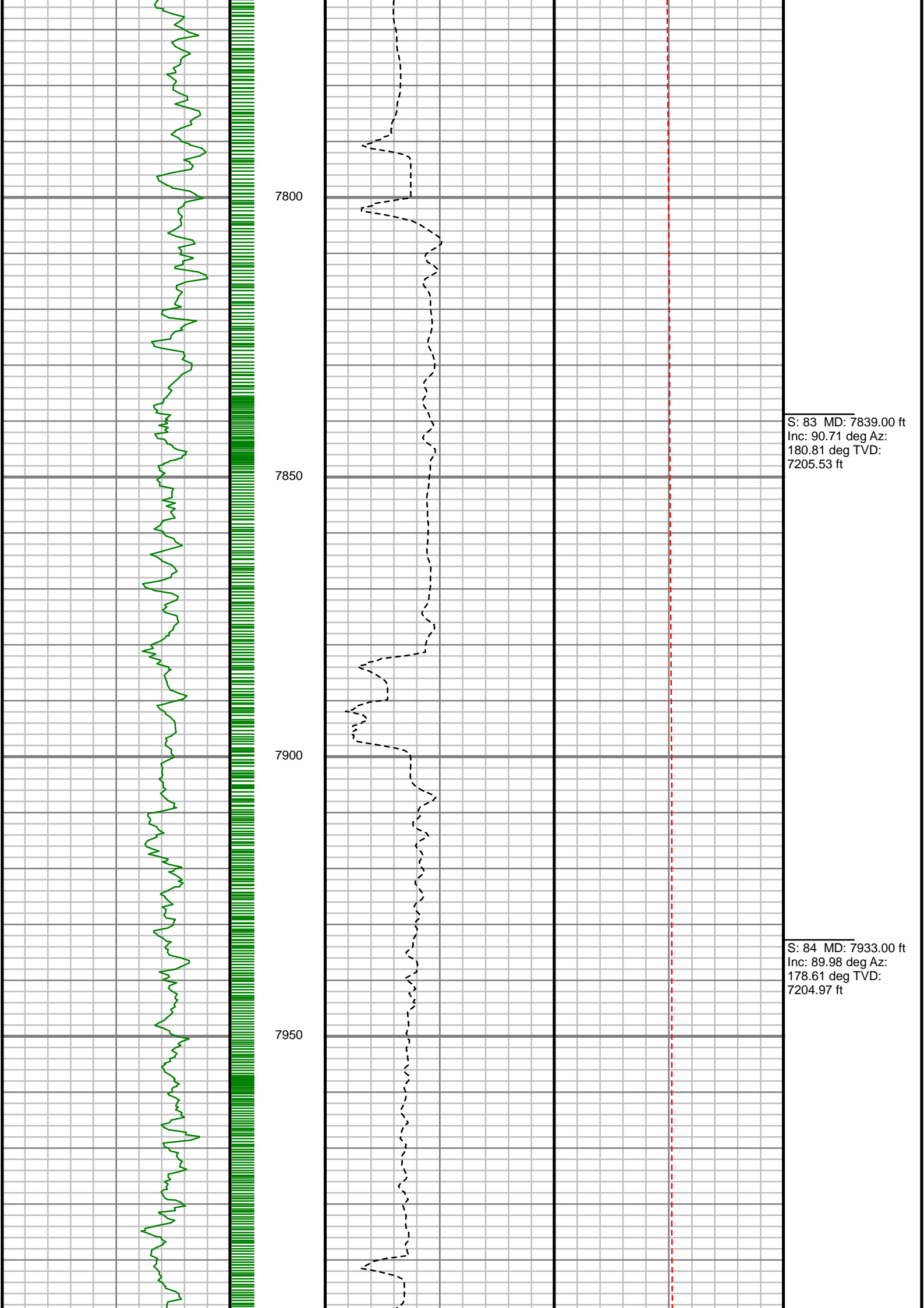
S: 79 MD: 7461.00 ft
Inc: 65.36 deg Az:
179.13 deg TVD:
7122.95 ft



S: 80 MD: 7555.00 ft
Inc: 73.57 deg Az:
180.32 deg TVD:
7155.89 ft

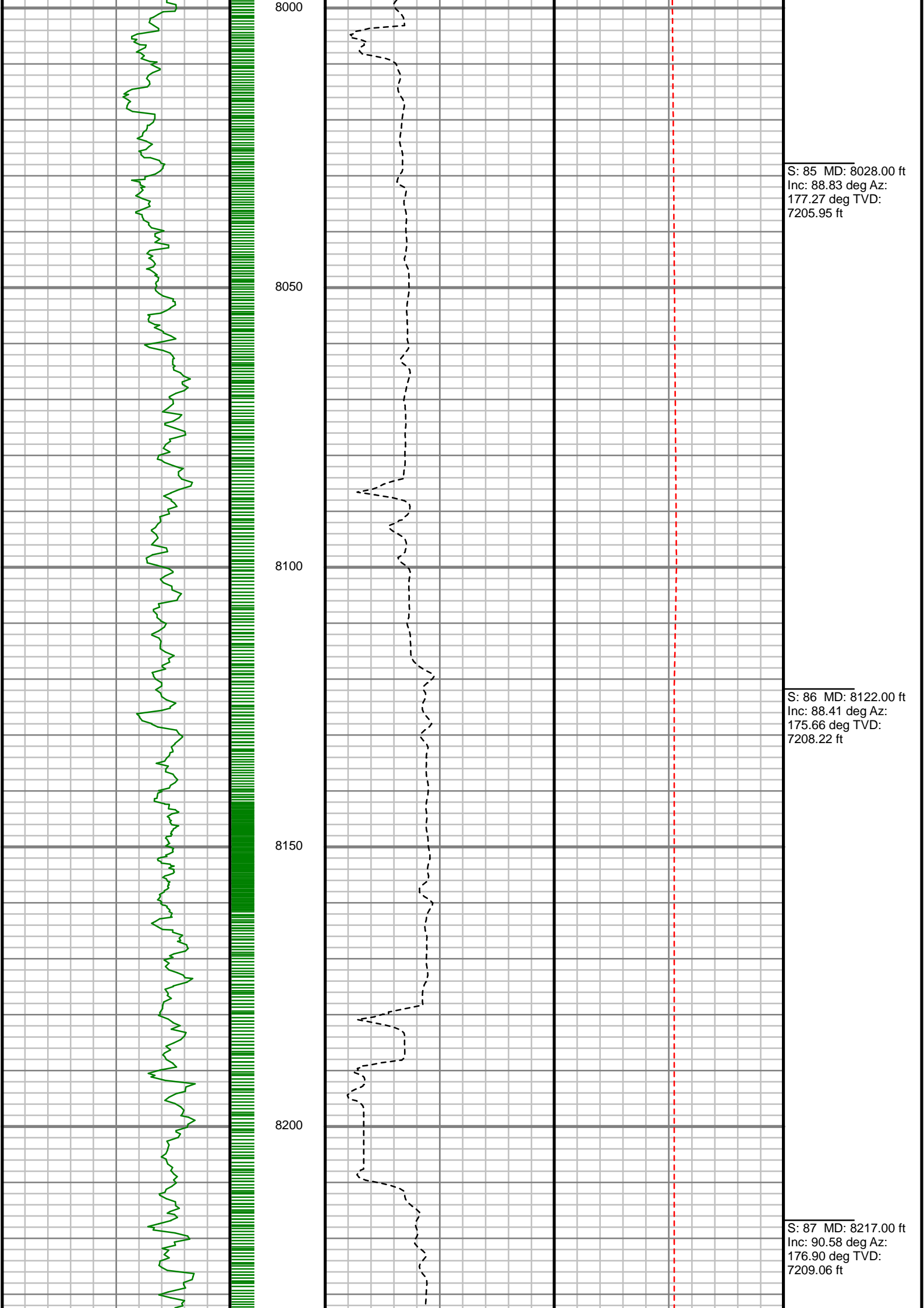
S: 81 MD: 7650.00 ft
Inc: 76.13 deg Az:
180.89 deg TVD:
7180.72 ft

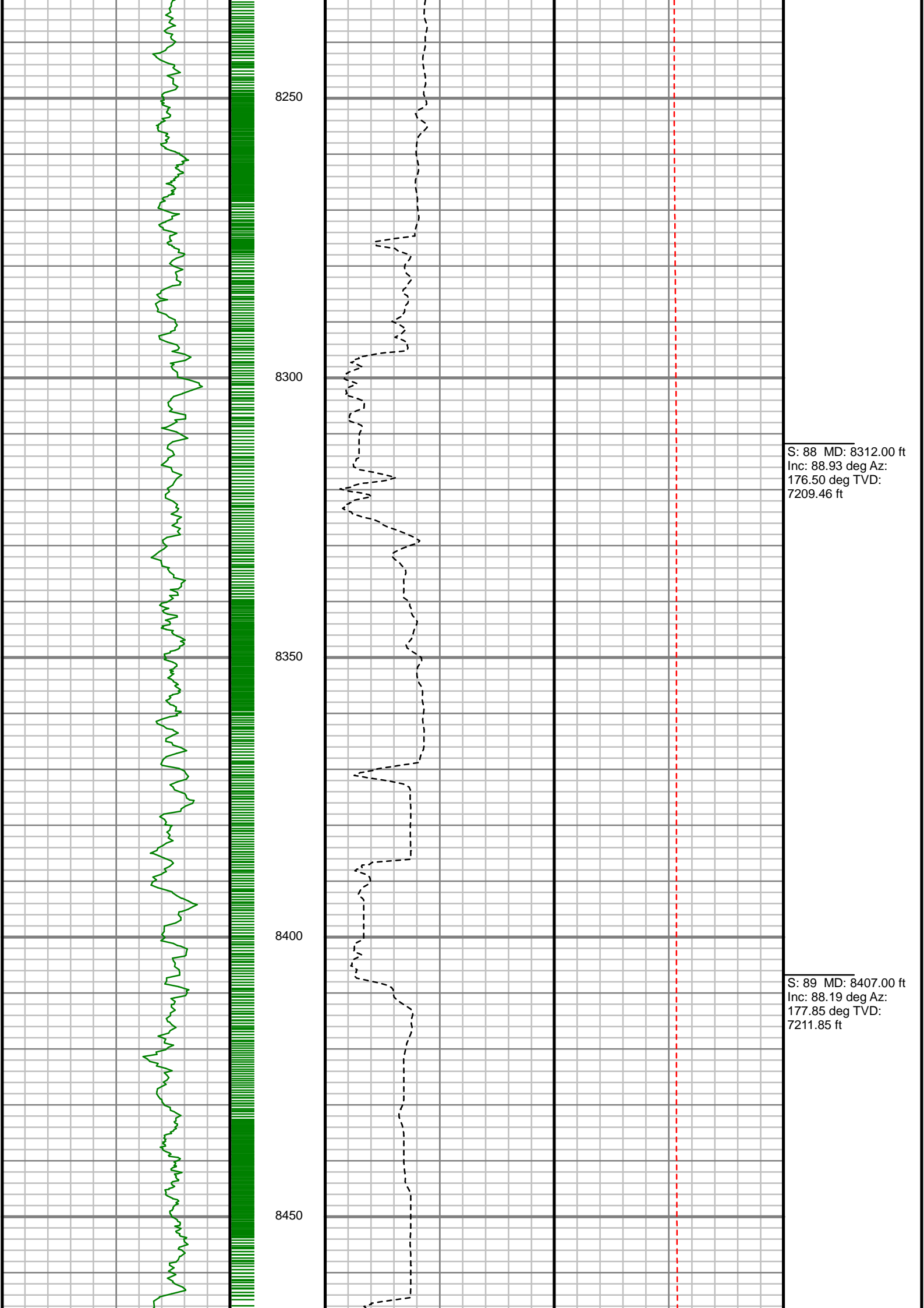
S: 82 MD: 7745.00 ft
Inc: 81.49 deg Az:
180.31 deg TVD:
7199.15 ft

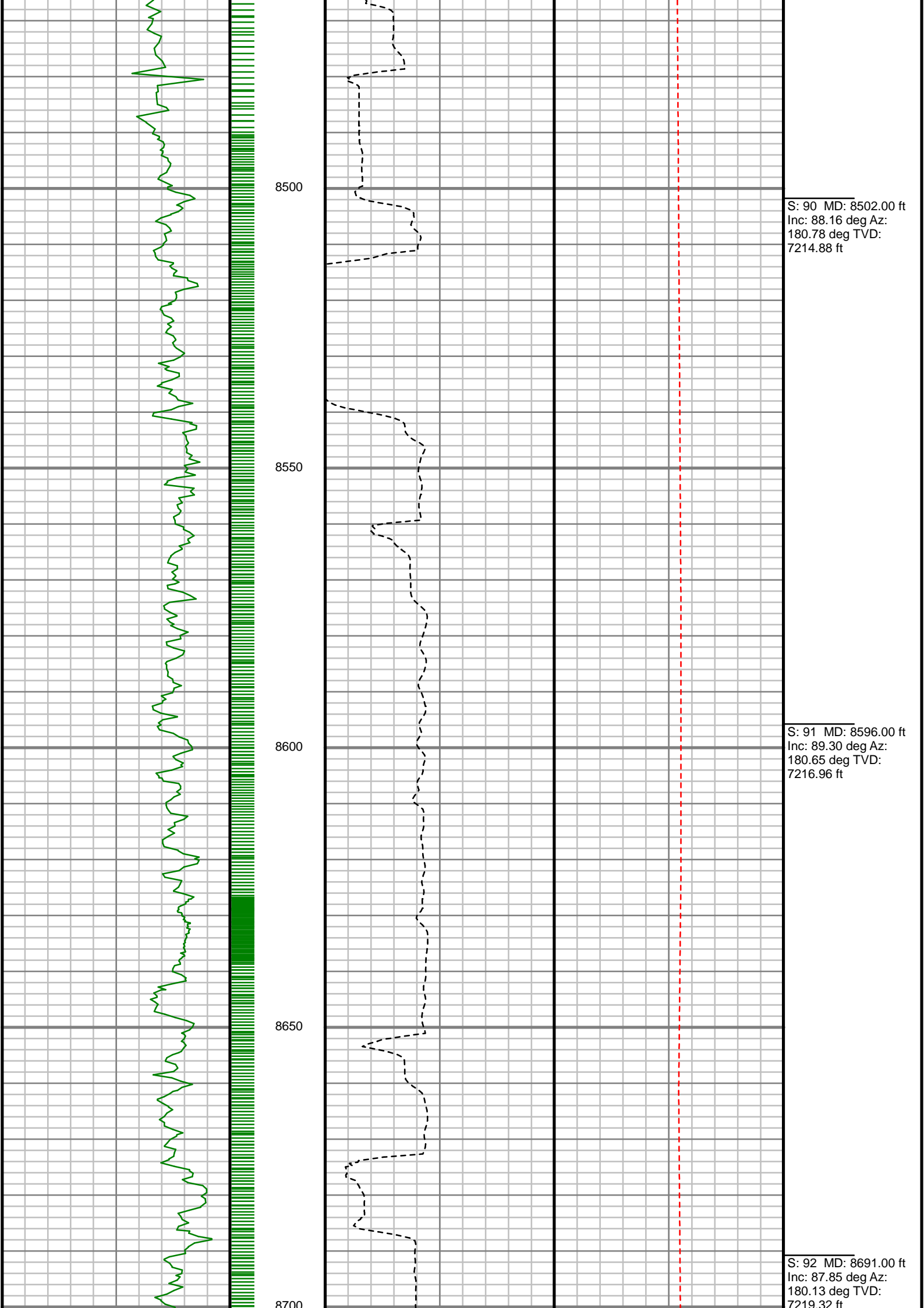


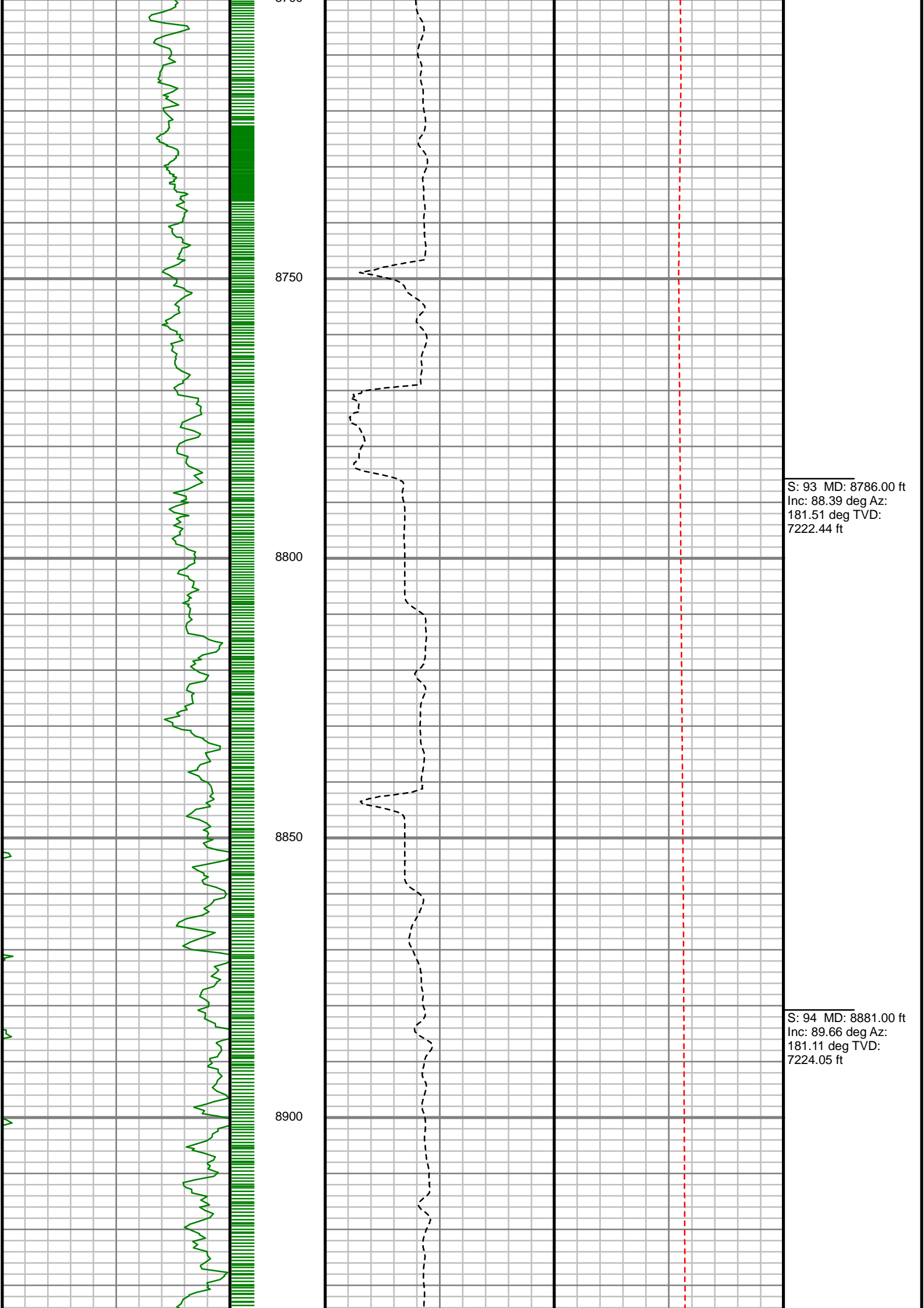
S: 83 MD: 7839.00 ft
Inc: 90.71 deg Az:
180.81 deg TVD:
7205.53 ft

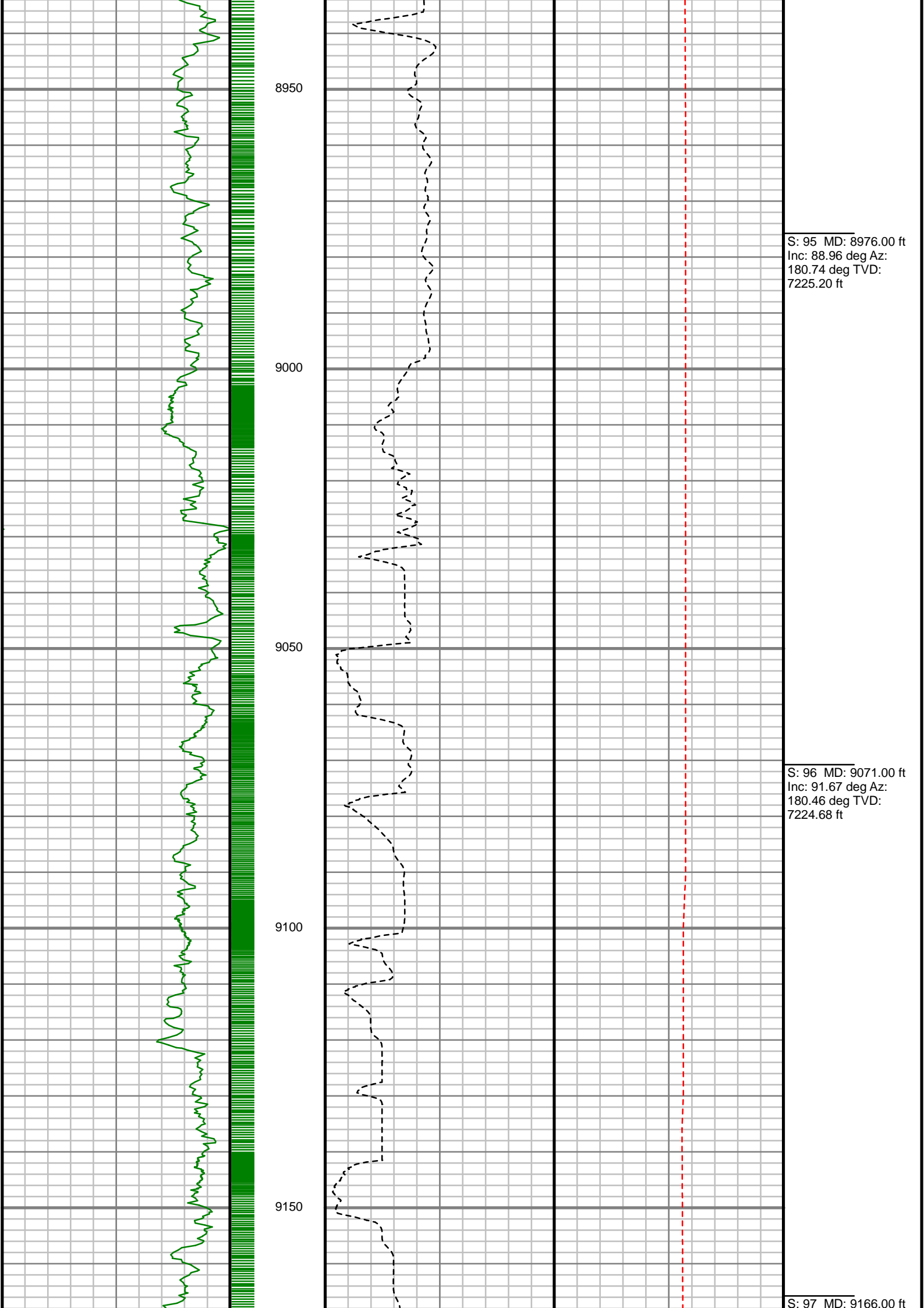
S: 84 MD: 7933.00 ft
Inc: 89.98 deg Az:
178.61 deg TVD:
7204.97 ft

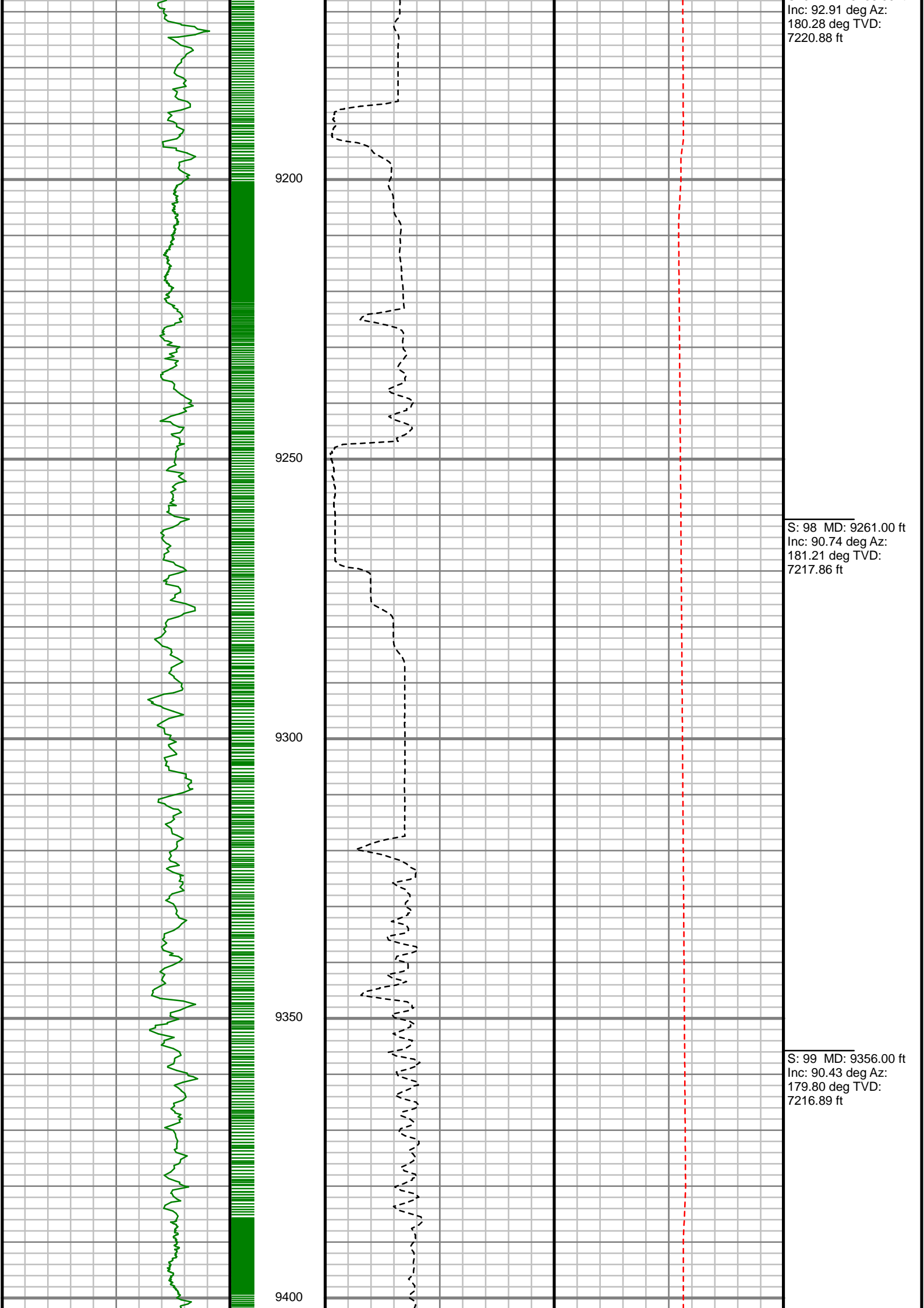


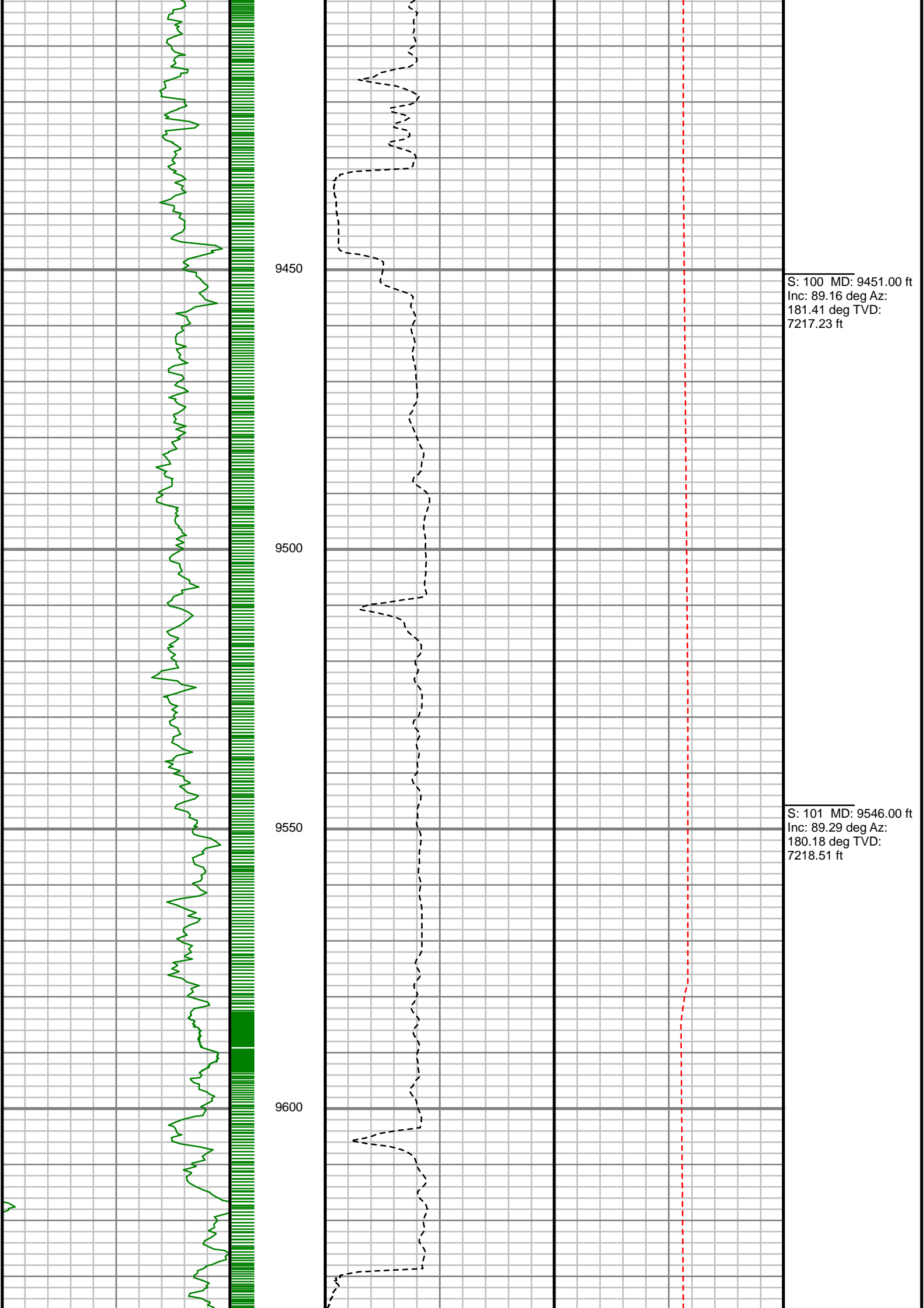


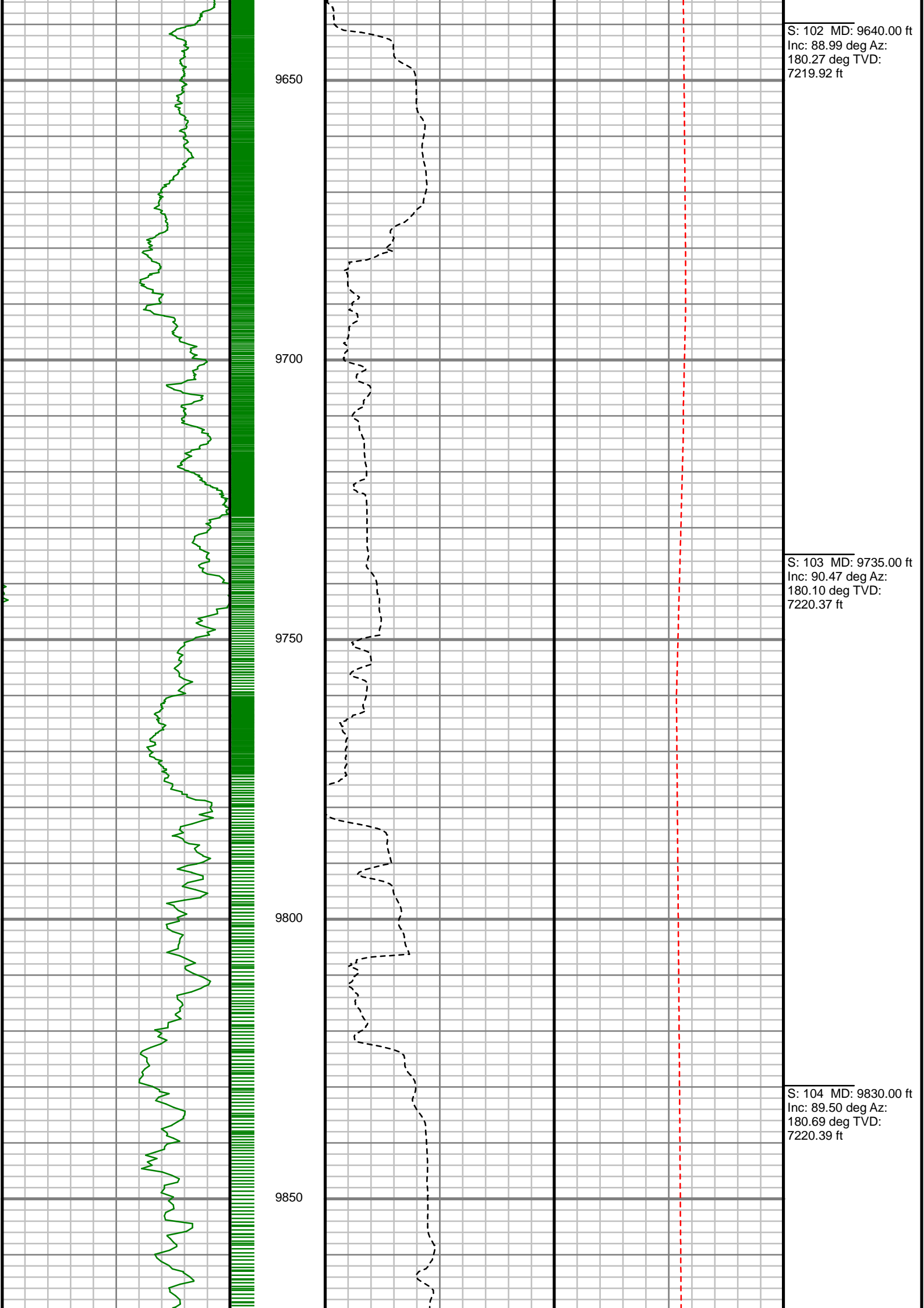








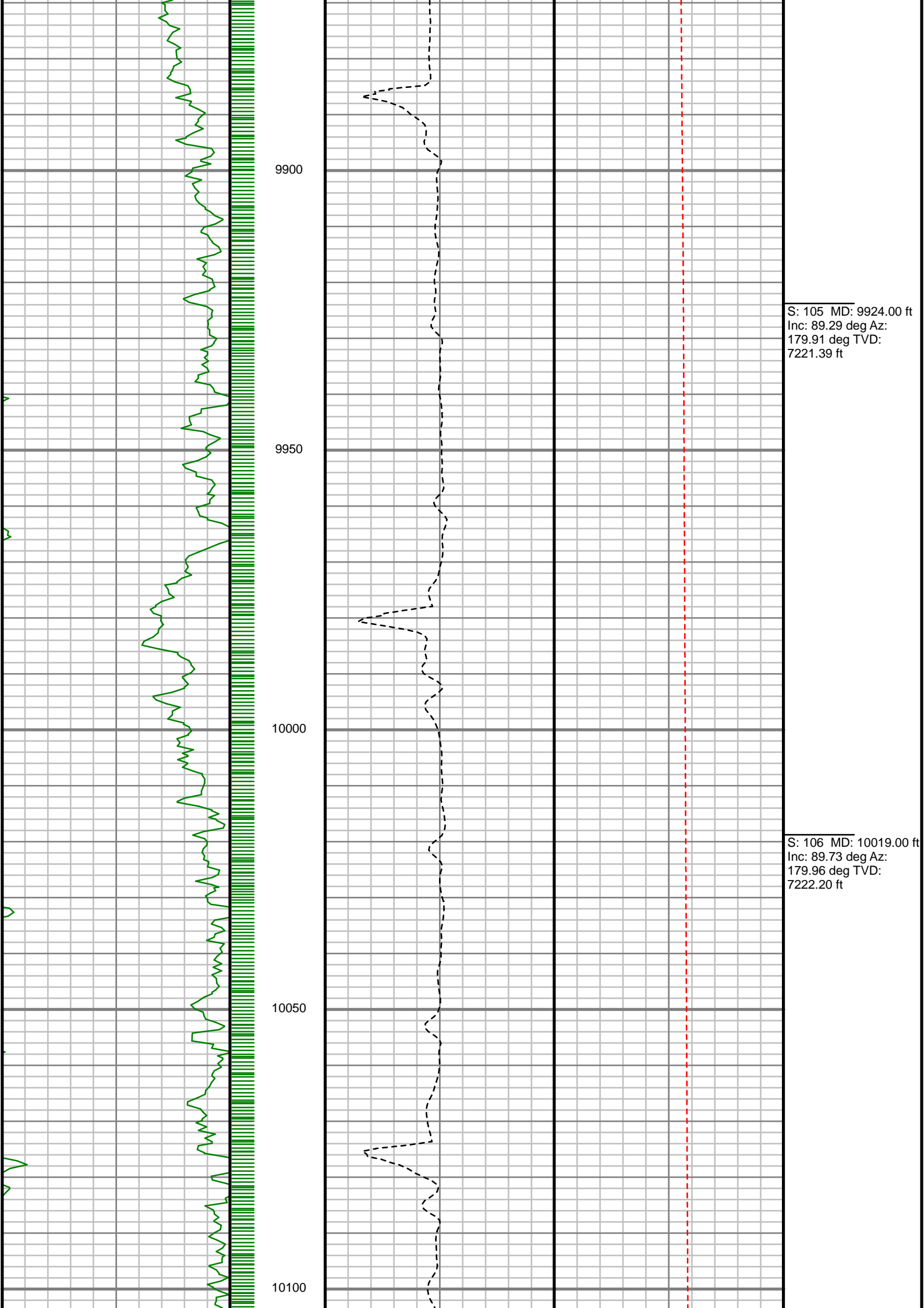


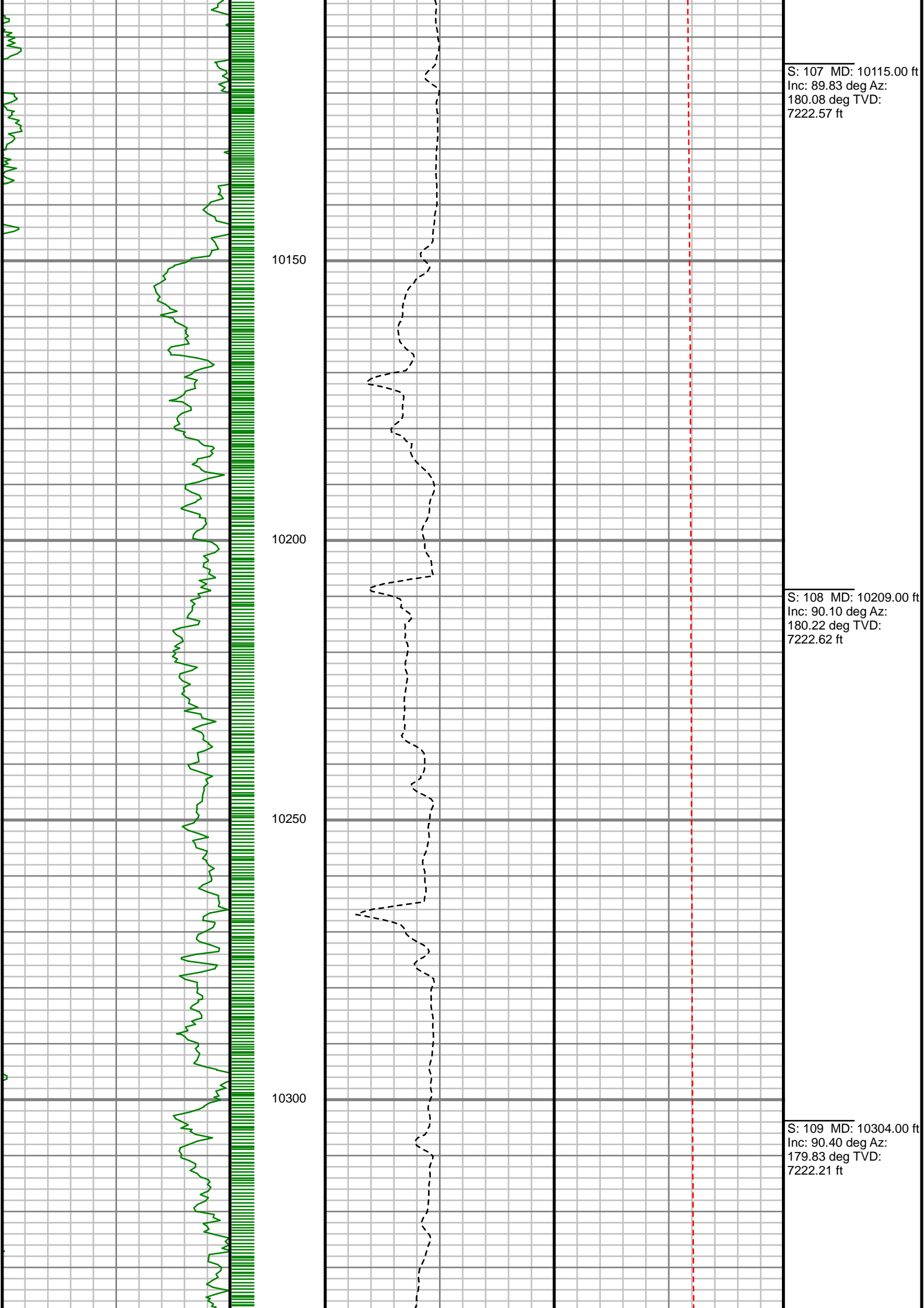


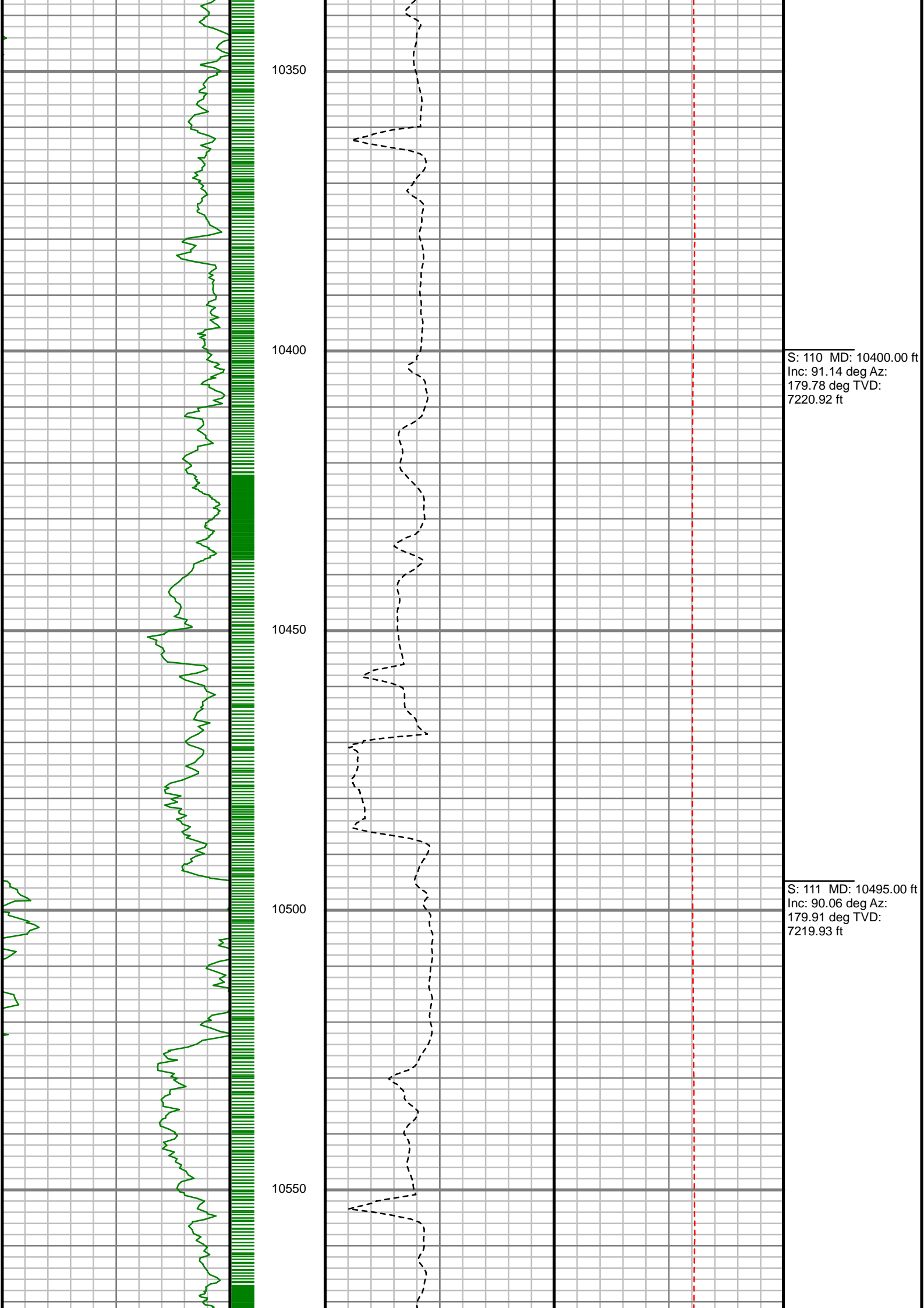
S: 102 MD: 9640.00 ft
Inc: 88.99 deg Az:
180.27 deg TVD:
7219.92 ft

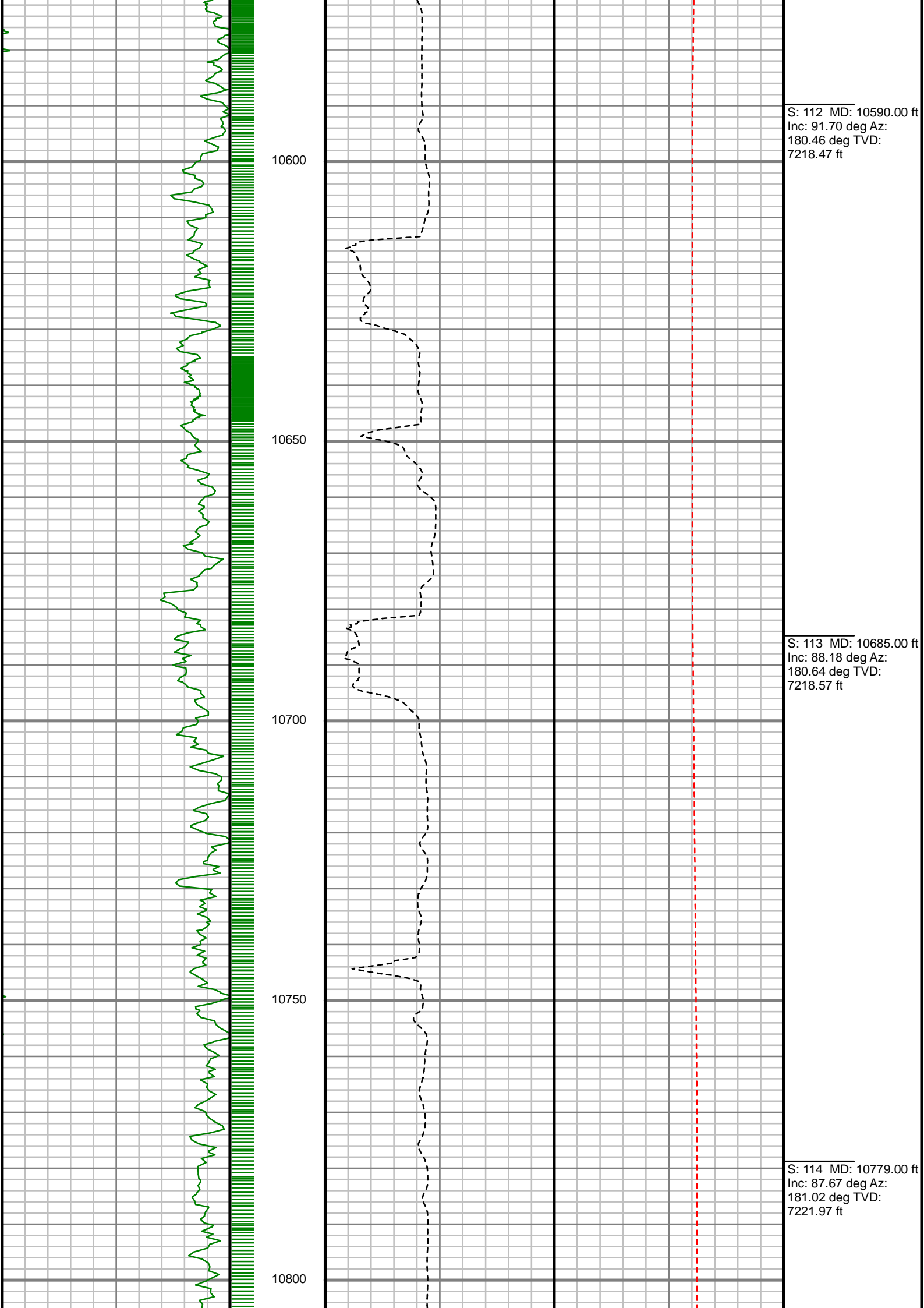
S: 103 MD: 9735.00 ft
Inc: 90.47 deg Az:
180.10 deg TVD:
7220.37 ft

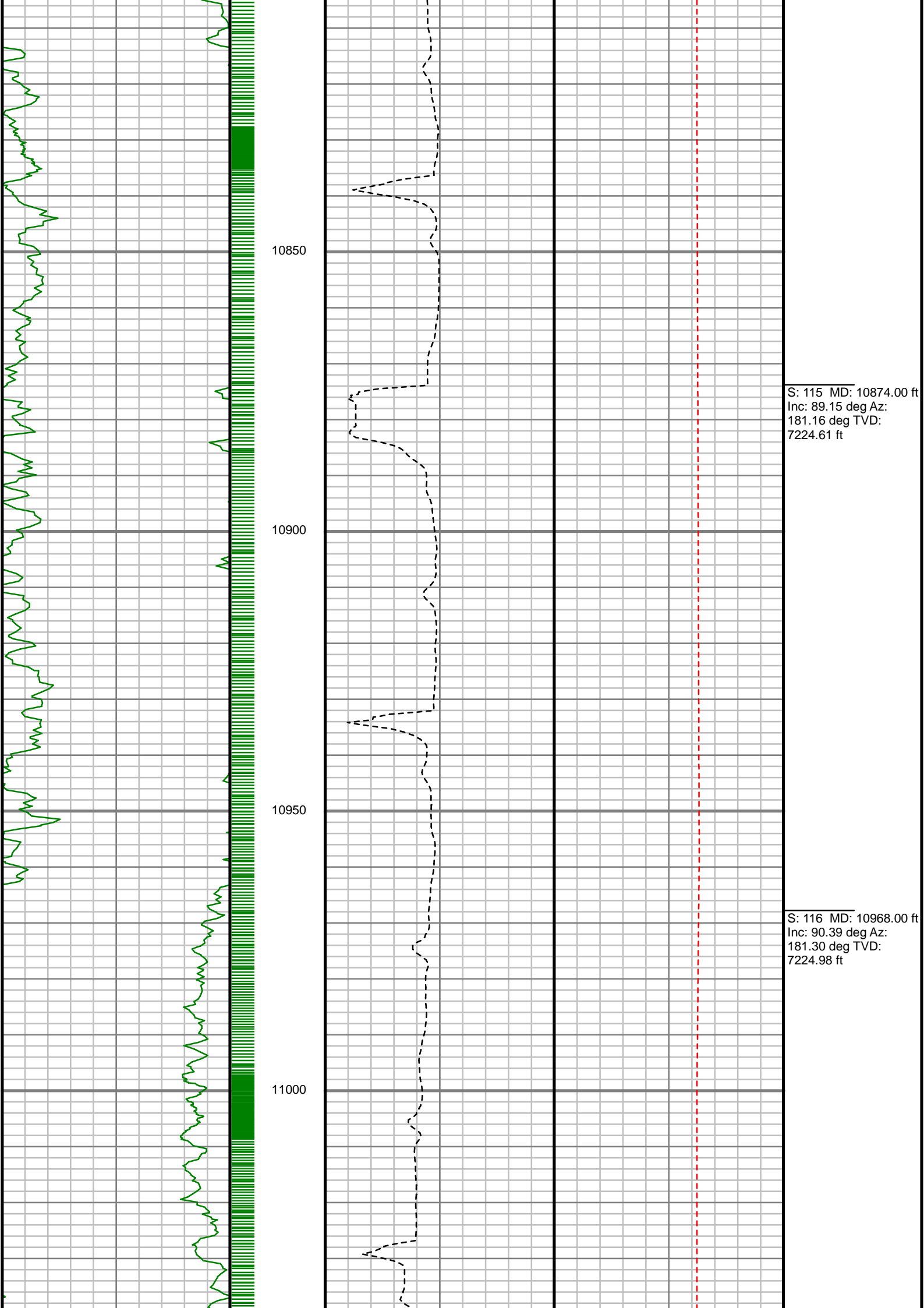
S: 104 MD: 9830.00 ft
Inc: 89.50 deg Az:
180.69 deg TVD:
7220.39 ft

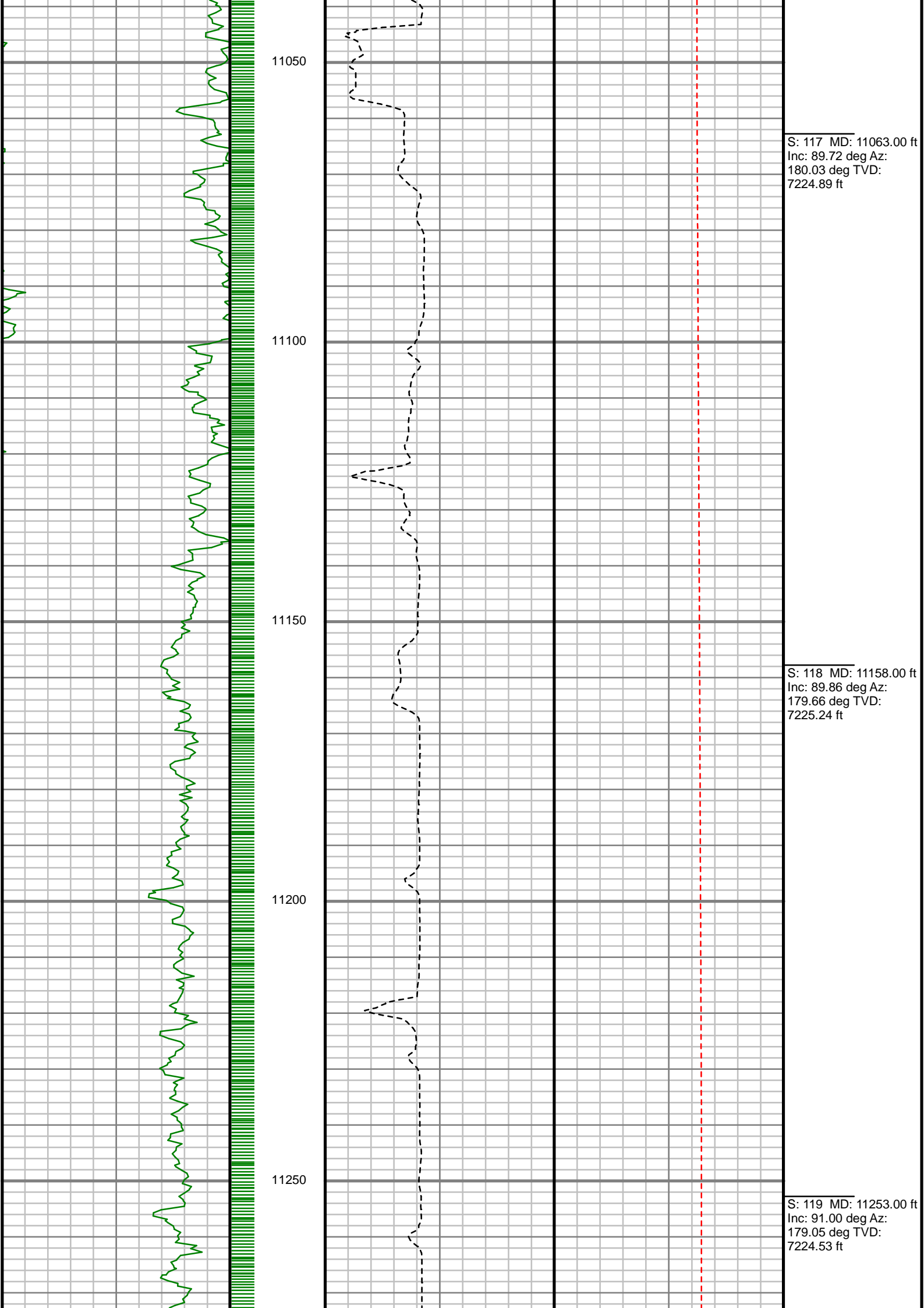


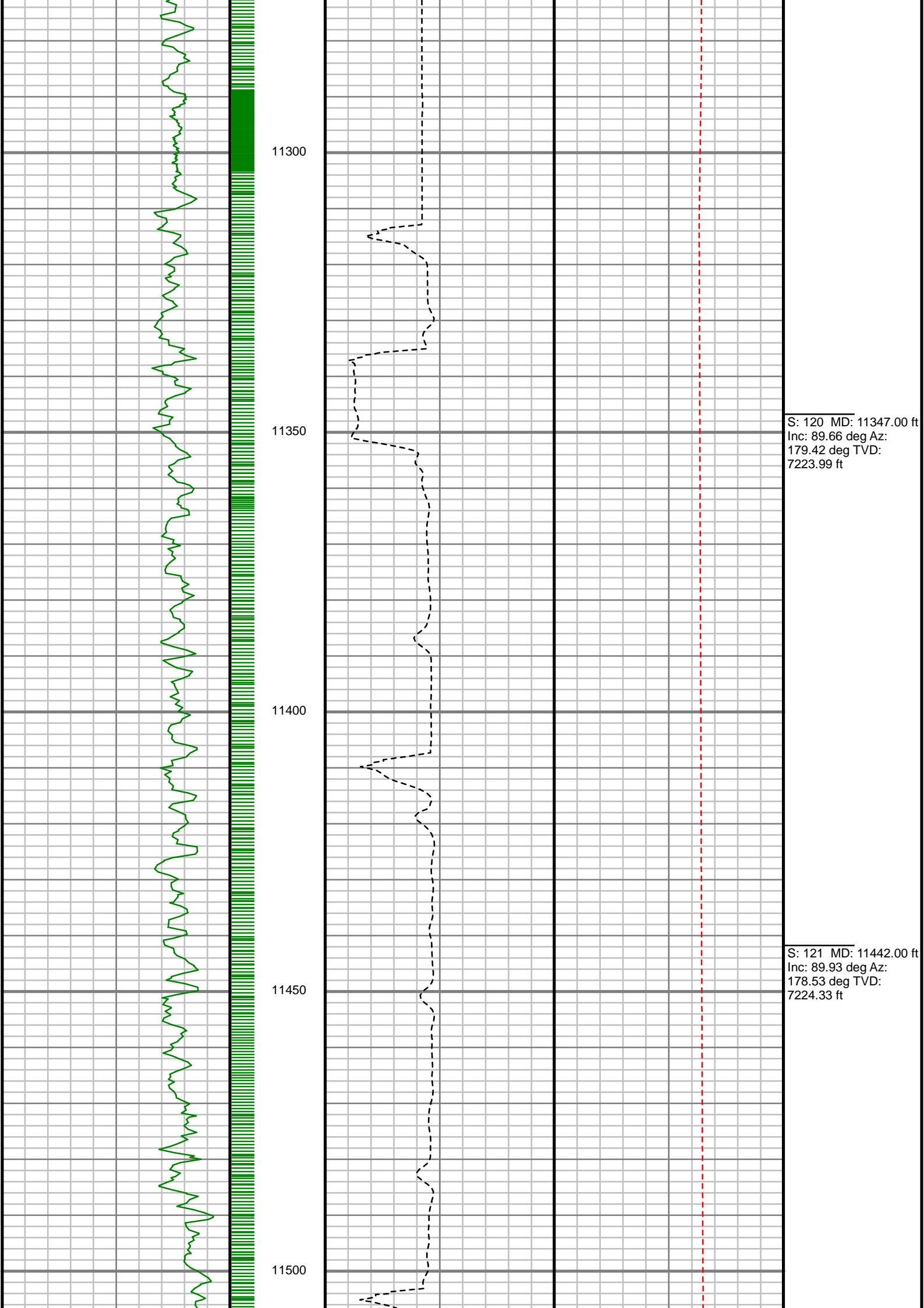


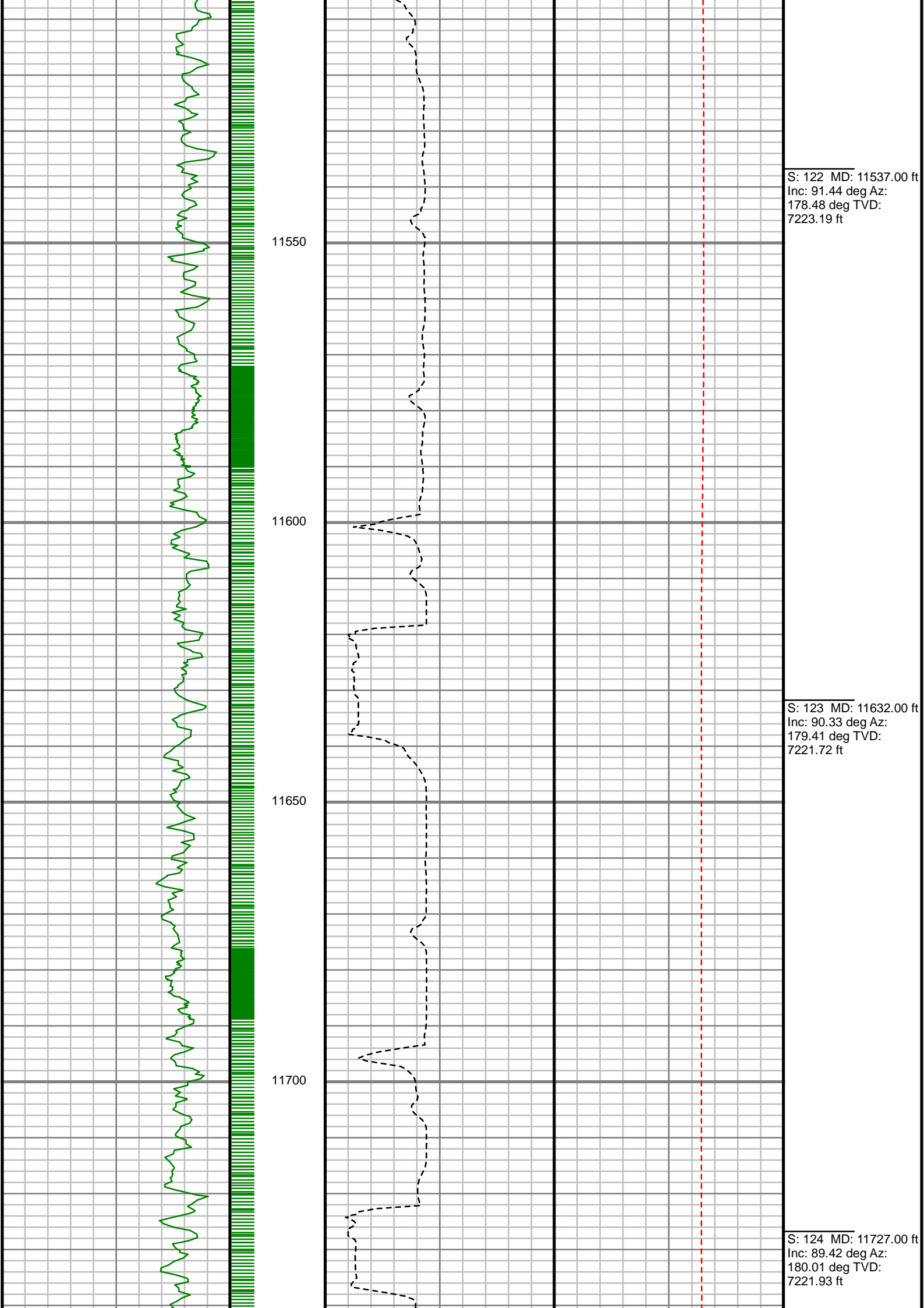


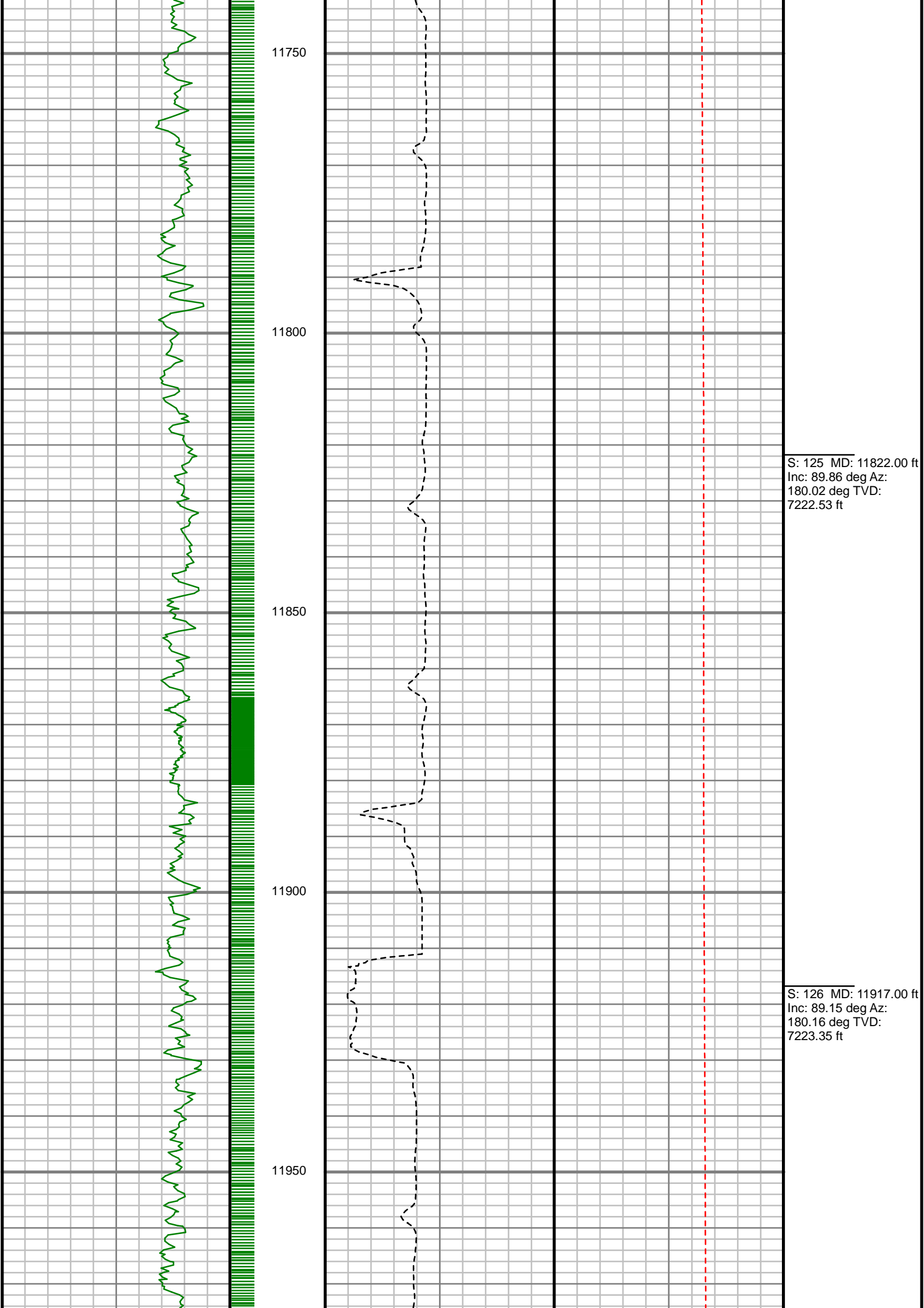


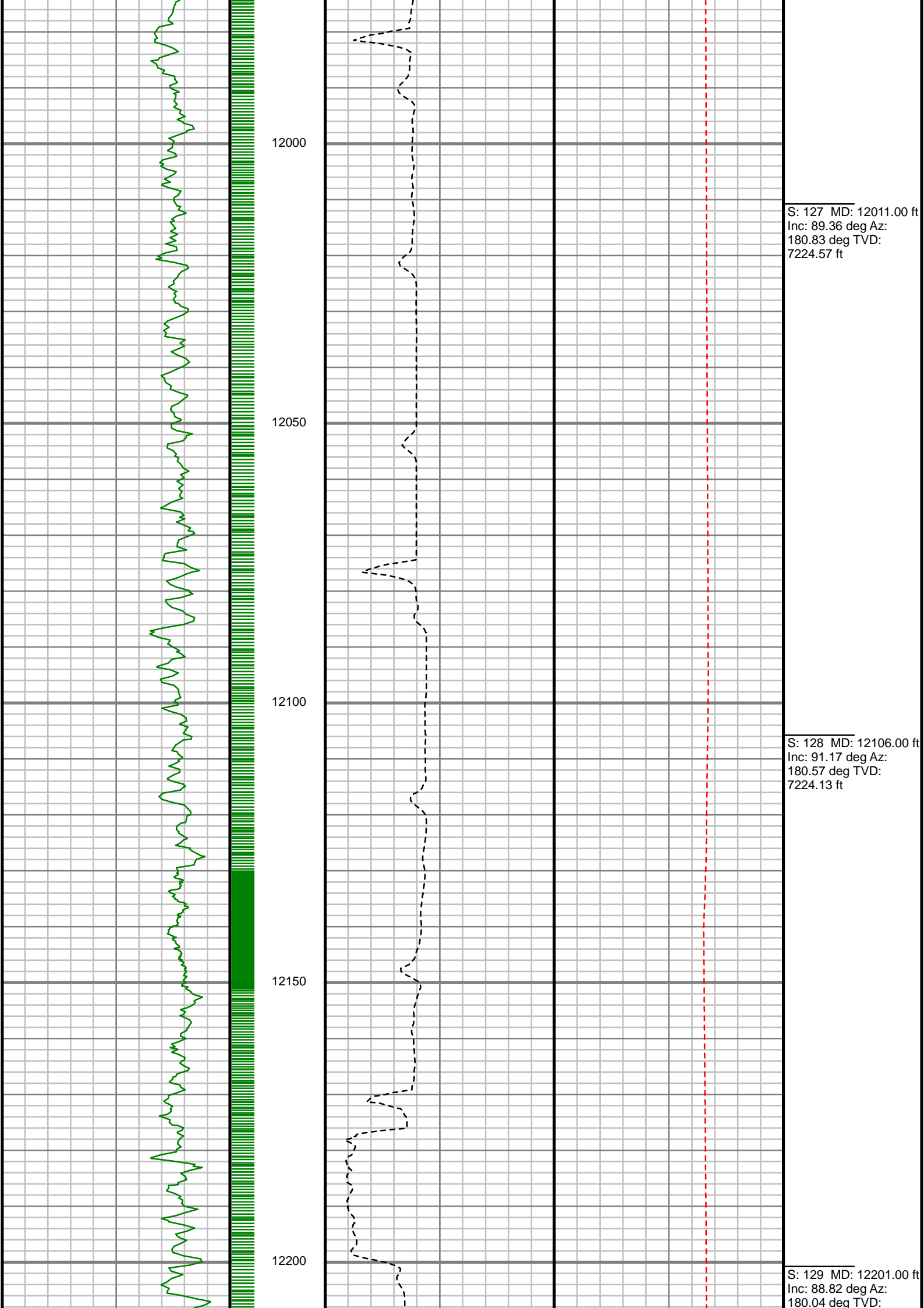


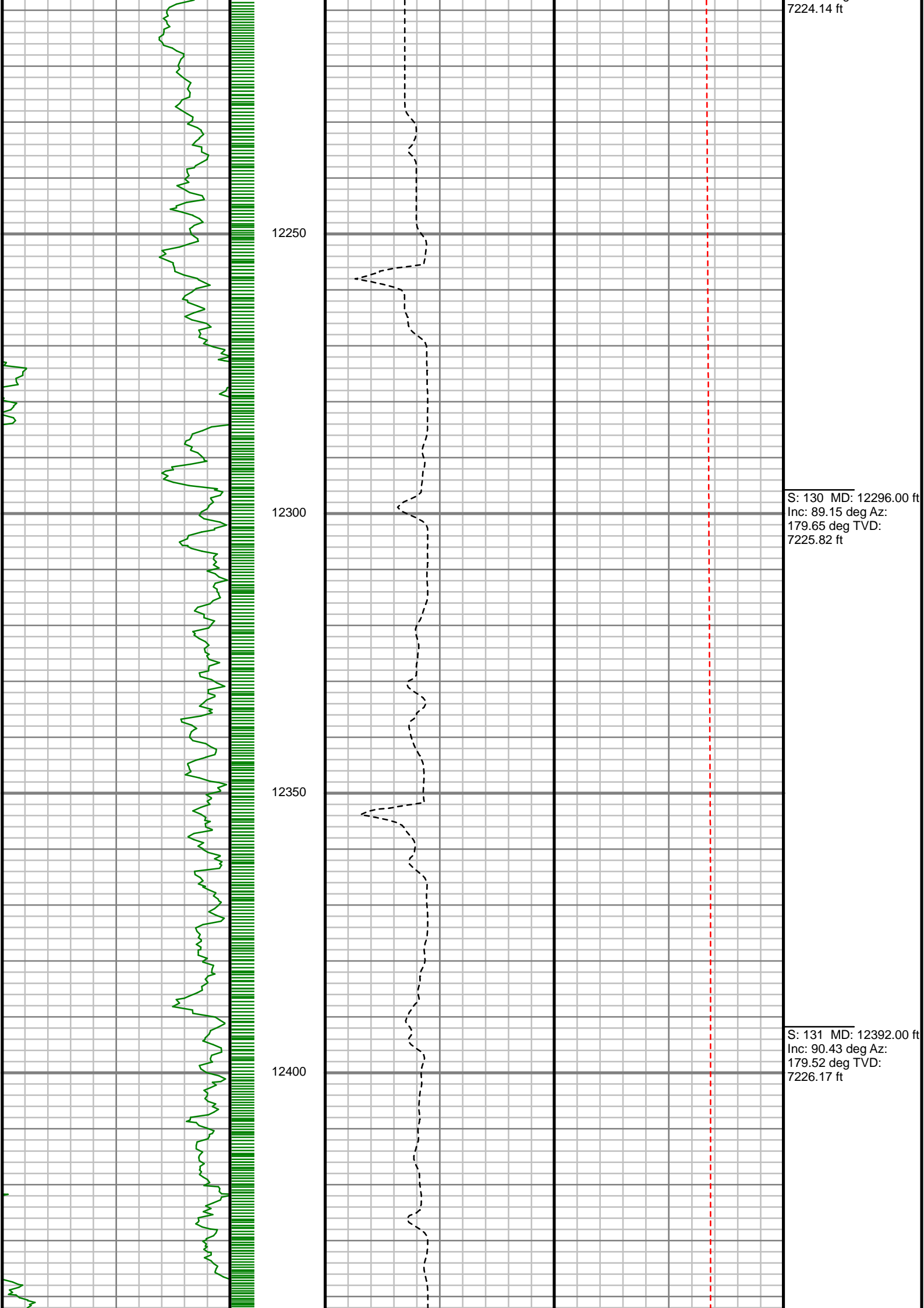


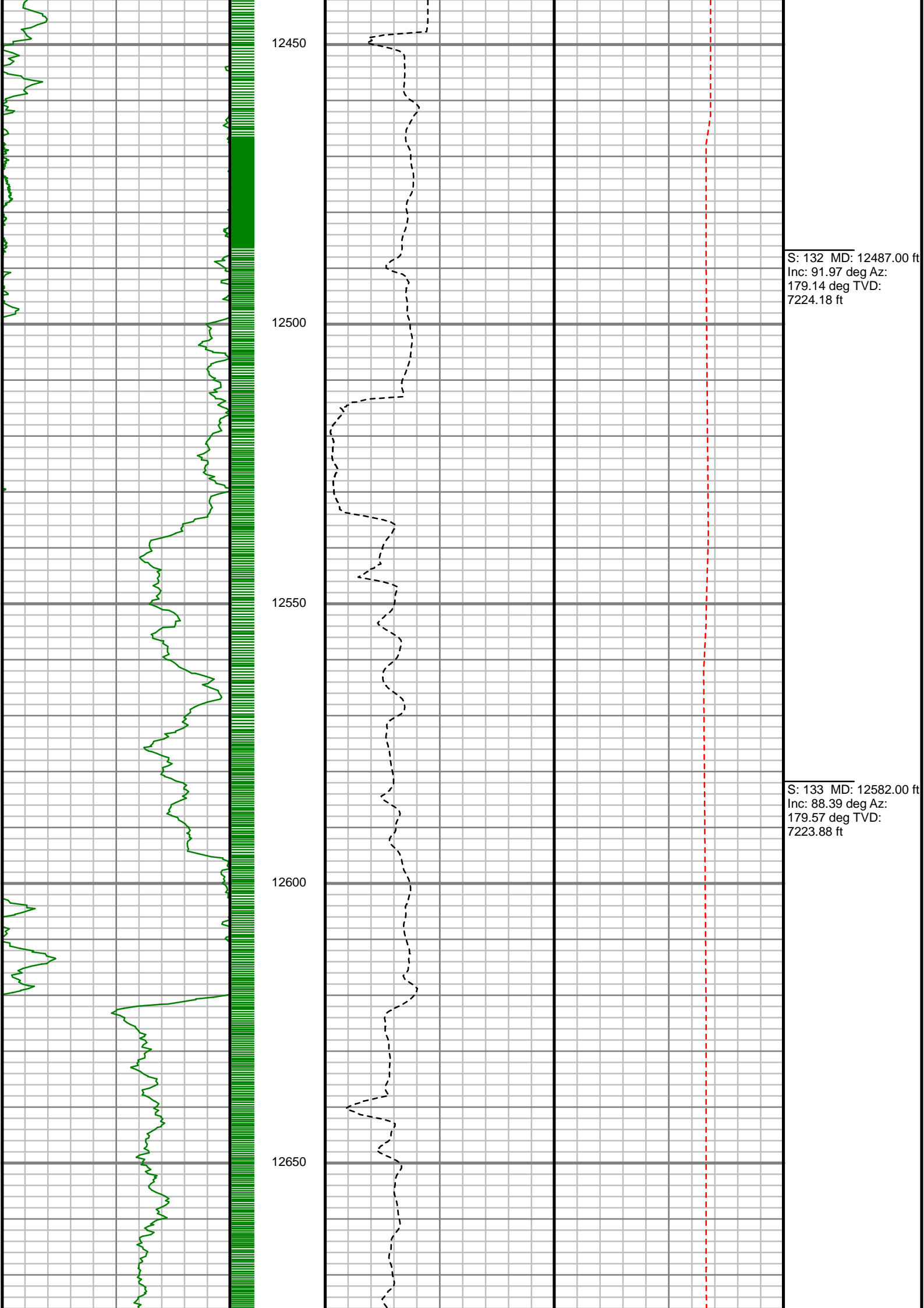


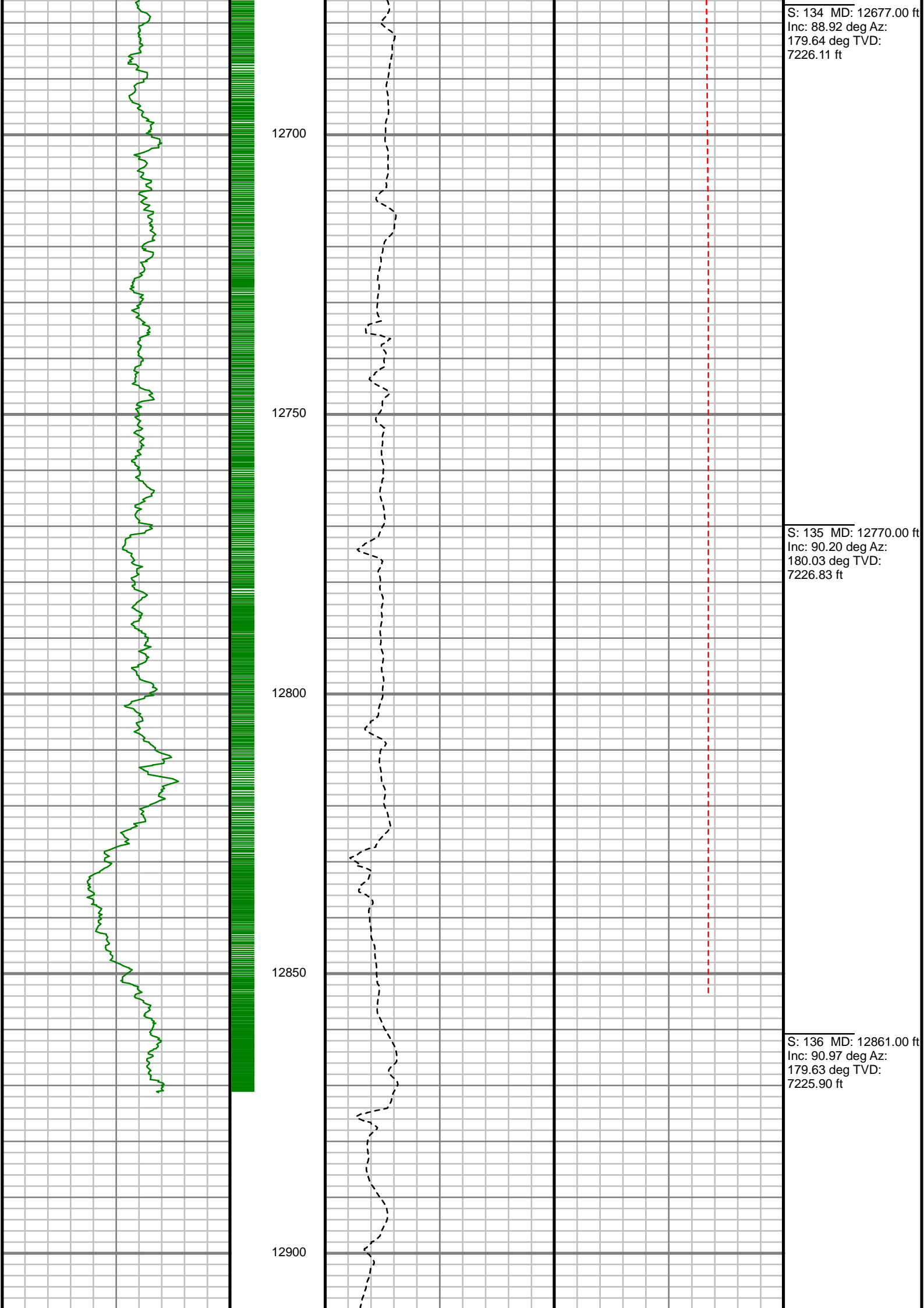












MEASURED DEPTH
1:240 (ft)



Well Location	POWERS 3-22 PAD
Well Name	POWERS 13C-22HZ
Survey Date	10/6/2015
Latitude	40.1293330°N
Longitude	104.6538040°W
Btotal	52579, 52626 nT
Dip	66.80 deg
Magnetic Declination	8.20, 8.23 deg
North Reference	True North
Grid Correction	None
Depth Reference	RKB (20.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 179.78Azim (deg)
Operator(s)	

Well Notes

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS
ft	deg	deg	ft	ft	ft	ft	%/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
13.00	0.00	0.00	13.00	0.00	0.00	0.00	0.00
128.00	0.52	354.52	128.00	-0.52	0.52	-0.05	0.45
218.00	0.94	327.83	217.99	-1.55	1.55	-0.48	0.59
309.00	1.72	338.32	308.97	-3.46	3.45	-1.38	0.89
386.00	2.62	336.89	385.91	-6.15	6.14	-2.50	1.17
476.00	3.43	340.39	475.78	-10.59	10.57	-4.21	0.92
566.00	5.06	340.74	565.53	-16.88	16.86	-6.43	1.81
656.00	6.32	336.15	655.09	-25.17	25.13	-9.74	1.49
791.00	8.60	336.41	788.94	-41.25	41.18	-16.78	1.69
881.00	9.15	326.86	877.86	-53.43	53.34	-23.39	1.74
971.00	10.08	330.27	966.60	-66.29	66.17	-31.21	1.21
1062.00	10.56	328.48	1056.13	-80.35	80.20	-39.51	0.63
1152.00	11.15	321.45	1144.52	-94.22	94.03	-49.25	1.61
1242.00	12.07	323.42	1232.68	-108.63	108.40	-60.28	1.11
1332.00	13.52	327.43	1320.44	-125.09	124.82	-71.55	1.89
1422.00	14.07	323.76	1407.85	-142.83	142.51	-83.68	1.15
1512.00	15.39	327.79	1494.89	-161.81	161.44	-96.52	1.86
1602.00	16.94	330.49	1581.33	-183.37	182.95	-109.34	1.91
1692.00	17.12	332.00	1667.39	-206.53	206.06	-122.02	0.53

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
1828.00	17.65	334.03	1797.17	-242.81	242.27	-140.45	0.59
1957.00	19.95	333.00	1919.29	-280.07	279.46	-159.00	1.80
2052.00	19.44	332.32	2008.73	-308.56	307.90	-173.70	0.59
2148.00	19.34	331.03	2099.29	-336.67	335.95	-188.82	0.46
2242.00	19.15	328.85	2188.04	-363.54	362.76	-204.33	0.79
2337.00	18.56	327.82	2277.94	-389.73	388.89	-220.44	0.71
2431.00	17.92	325.32	2367.22	-414.35	413.44	-236.64	1.08
2526.00	18.43	330.63	2457.48	-439.51	438.55	-252.32	1.83
2621.00	17.84	329.60	2547.77	-465.21	464.19	-267.05	0.71
2717.00	16.81	328.16	2639.41	-489.74	488.66	-281.82	1.16
2811.00	17.30	326.64	2729.28	-513.02	511.88	-296.67	0.71
2906.00	18.14	328.92	2819.77	-537.54	536.35	-312.08	1.14
3002.00	17.88	328.36	2911.06	-562.95	561.69	-327.52	0.32
3097.00	17.54	327.45	3001.56	-587.49	586.18	-342.87	0.46
3192.00	18.28	333.49	3091.97	-612.95	611.58	-357.23	2.10
3287.00	17.85	333.52	3182.28	-639.36	637.94	-370.37	0.46
3382.00	17.33	330.55	3272.85	-664.76	663.29	-383.81	1.09
3478.00	17.31	327.68	3364.49	-689.34	687.81	-398.48	0.89
3573.00	17.86	325.90	3455.05	-713.41	711.82	-414.20	0.81
3668.00	17.19	327.83	3545.64	-737.42	735.77	-429.85	0.93

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
3763.00	17.88	333.32	3636.24	-762.39	760.69	-443.87	1.88
3858.00	17.66	335.00	3726.70	-788.52	786.78	-456.51	0.59
3953.00	18.28	335.39	3817.07	-815.17	813.38	-468.80	0.67
4048.00	19.04	331.86	3907.08	-842.44	840.60	-482.32	1.43
4144.00	17.84	329.26	3998.15	-868.95	867.04	-497.22	1.52
4239.00	18.93	333.48	4088.30	-895.30	893.34	-511.54	1.82
4334.00	19.08	334.63	4178.12	-923.17	921.16	-525.07	0.42
4429.00	16.94	331.61	4268.46	-949.43	947.37	-538.30	2.45
4524.00	16.12	334.33	4359.54	-973.54	971.44	-550.60	1.19
4619.00	18.01	334.87	4450.35	-998.78	996.62	-562.55	2.00
4714.00	17.84	332.63	4540.74	-1025.05	1022.84	-575.48	0.75
4809.00	17.74	331.22	4631.20	-1050.70	1048.45	-589.13	0.47
4904.00	17.33	330.02	4721.79	-1075.70	1073.39	-603.17	0.57
4999.00	15.57	333.48	4812.90	-1099.41	1097.05	-615.93	2.12
5094.00	16.77	334.94	4904.14	-1123.28	1120.88	-627.43	1.34
5190.00	16.50	332.73	4996.12	-1147.99	1145.54	-639.54	0.72
5284.00	15.21	330.62	5086.54	-1170.65	1168.16	-651.71	1.50
5379.00	14.70	330.13	5178.32	-1192.01	1189.47	-663.82	0.56
5475.00	13.63	329.44	5271.40	-1212.36	1209.77	-675.64	1.12
5569.00	12.21	328.35	5363.02	-1230.40	1227.78	-686.49	1.53

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
5663.00	11.22	326.83	5455.06	-1246.56	1243.90	-696.71	1.10
5759.00	7.20	336.24	5549.81	-1259.93	1257.23	-704.25	4.46
5853.00	5.84	336.14	5643.20	-1269.71	1267.00	-708.56	1.45
5949.00	4.68	330.43	5738.79	-1277.60	1274.88	-712.47	1.33
6044.00	4.22	315.79	5833.51	-1283.50	1280.75	-716.82	1.29
6138.00	1.68	308.97	5927.38	-1286.86	1284.10	-720.30	2.72
6232.00	2.15	295.58	6021.32	-1288.50	1285.73	-722.97	0.69
6325.00	1.21	305.32	6114.28	-1289.83	1287.05	-725.34	1.05
6420.00	1.53	315.38	6209.26	-1291.31	1288.53	-727.05	0.42
6515.00	0.93	335.57	6304.23	-1292.92	1290.14	-728.26	0.77
6609.00	0.66	45.68	6398.23	-1294.00	1291.21	-728.19	1.00
6704.00	1.15	88.45	6493.22	-1294.40	1291.62	-726.84	0.84
6799.00	6.00	175.38	6588.03	-1289.47	1286.69	-725.49	6.37
6893.00	14.80	182.61	6680.40	-1272.54	1269.77	-725.64	9.45
6988.00	21.98	188.72	6770.50	-1242.82	1240.03	-728.89	7.82
7082.00	27.04	181.64	6856.02	-1204.05	1201.25	-732.17	6.22
7177.00	36.22	174.66	6936.85	-1154.39	1151.60	-730.18	10.39
7271.00	41.64	175.44	7009.95	-1095.55	1092.77	-725.10	5.79
7366.00	52.91	176.68	7074.30	-1026.02	1023.26	-720.39	11.90
7461.00	65.36	179.13	7122.95	-944.68	941.93	-717.52	13.29

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
7555.00	73.57	180.32	7155.89	-856.73	853.98	-717.13	8.81
7650.00	76.13	180.89	7180.72	-765.05	762.30	-718.10	2.76
7745.00	81.49	180.31	7199.15	-671.90	669.14	-719.07	5.67
7839.00	90.71	180.81	7205.53	-578.23	575.47	-719.99	9.82
7933.00	89.98	178.61	7204.97	-484.24	481.48	-719.51	2.47
8028.00	88.83	177.27	7205.95	-389.29	386.55	-716.10	1.86
8122.00	88.41	175.66	7208.22	-295.48	292.76	-710.30	1.77
8217.00	90.58	176.90	7209.06	-200.67	197.97	-704.14	2.63
8312.00	88.93	176.50	7209.46	-105.81	103.13	-698.67	1.79
8407.00	88.19	177.85	7211.85	-10.94	8.28	-693.99	1.62
8502.00	88.16	180.78	7214.88	84.00	-86.66	-692.86	3.08
8596.00	89.30	180.65	7216.96	177.96	-180.62	-694.03	1.22
8691.00	87.85	180.13	7219.32	272.92	-275.59	-694.67	1.62
8786.00	88.39	181.51	7222.44	367.85	-370.53	-696.03	1.56
8881.00	89.66	181.11	7224.05	462.80	-465.49	-698.21	1.40
8976.00	88.96	180.74	7225.20	557.78	-560.47	-699.74	0.83
9071.00	91.67	180.46	7224.68	652.76	-655.45	-700.73	2.87
9166.00	92.91	180.28	7220.88	747.67	-750.37	-701.35	1.32
9261.00	90.74	181.21	7217.86	842.60	-845.31	-702.58	2.48
9356.00	90.43	179.80	7216.89	937.59	-940.30	-703.42	1.52

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
9451.00	89.16	181.41	7217.23	1032.57	-1035.29	-704.42	2.16
9546.00	89.29	180.18	7218.51	1127.55	-1130.27	-705.74	1.30
9640.00	88.99	180.27	7219.92	1221.53	-1224.25	-706.11	0.33
9735.00	90.47	180.10	7220.37	1316.53	-1319.25	-706.42	1.57
9830.00	89.50	180.69	7220.39	1411.52	-1414.25	-707.07	1.20
9924.00	89.29	179.91	7221.39	1505.51	-1508.24	-707.56	0.86
10019.00	89.73	179.96	7222.20	1600.51	-1603.24	-707.45	0.47
10115.00	89.83	180.08	7222.57	1696.51	-1699.23	-707.49	0.16
10209.00	90.10	180.22	7222.62	1790.50	-1793.23	-707.73	0.32
10304.00	90.40	179.83	7222.21	1885.50	-1888.23	-707.78	0.52
10400.00	91.14	179.78	7220.92	1981.49	-1984.22	-707.45	0.77
10495.00	90.06	179.91	7219.93	2076.49	-2079.22	-707.19	1.15
10590.00	91.70	180.46	7218.47	2171.47	-2174.20	-707.50	1.82
10685.00	88.18	180.64	7218.57	2266.44	-2269.18	-708.41	3.71
10779.00	87.67	181.02	7221.97	2360.37	-2363.11	-709.77	0.68
10874.00	89.15	181.16	7224.61	2455.30	-2458.05	-711.58	1.56
10968.00	90.39	181.30	7224.98	2549.27	-2552.03	-713.60	1.33
11063.00	89.72	180.03	7224.89	2644.26	-2647.02	-714.70	1.51
11158.00	89.86	179.66	7225.24	2739.26	-2742.02	-714.44	0.42
11253.00	91.00	179.05	7224.53	2834.25	-2837.01	-713.37	1.36

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
11347.00	89.66	179.42	7223.99	2928.24	-2931.00	-712.12	1.48
11442.00	89.93	178.53	7224.33	3023.23	-3025.98	-710.42	0.98
11537.00	91.44	178.48	7223.19	3118.20	-3120.94	-707.94	1.59
11632.00	90.33	179.41	7221.72	3213.17	-3215.91	-706.19	1.52
11727.00	89.42	180.01	7221.93	3308.17	-3310.90	-705.71	1.15
11822.00	89.86	180.02	7222.53	3403.17	-3405.90	-705.73	0.46
11917.00	89.15	180.16	7223.35	3498.16	-3500.90	-705.88	0.76
12011.00	89.36	180.83	7224.57	3592.15	-3594.89	-706.70	0.75
12106.00	91.17	180.57	7224.13	3687.13	-3689.87	-707.86	1.92
12201.00	88.82	180.04	7224.14	3782.12	-3784.87	-708.36	2.54
12296.00	89.15	179.65	7225.82	3877.10	-3879.85	-708.10	0.54
12392.00	90.43	179.52	7226.17	3973.10	-3975.84	-707.41	1.34
12487.00	91.97	179.14	7224.18	4068.07	-4070.81	-706.30	1.67
12582.00	88.39	179.57	7223.88	4163.05	-4165.79	-705.23	3.80
12677.00	88.92	179.64	7226.11	4258.03	-4260.76	-704.58	0.56
12770.00	90.20	180.03	7226.83	4351.02	-4353.76	-704.31	1.44
12861.00	90.97	179.63	7225.90	4442.02	-4444.75	-704.04	0.95

5" = 100' FEET MD