

5" = 100' FEET MD

COMPANY : ANADARKO E&P ONSHORE LLC									
WELL : BUFFALO 35N-15HZ									
FIELD : WATTENBERG									
COUNTY : WELD									
STATE : COLORADO									
COUNTRY : U.S.A.									
UWI : 05-123-36462									
WELL LOCATION									
LAT:40°3'26.464"N LONG:104°59'41.834"W									
N:1264140.93 ft E:3141370.70 ft									
SEC:15 TWP:1 N RANGE:68 W									
OTHER SERVICES									
DIRECTIONAL									
ROP									
DEPTH REF. : RKB									
REF. HEIGHT : 20.000 ft									
RKB to Ground Level									
GROUND LEVEL : 5132.000 ft									
G.L. to MEAN SEA LEVEL									
BOREHOLE RECORD						DEVIATION RECORD			
HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft				
13.5	0	1339	0 - 10	0	1846				
8.75	1339	7987	10 - 0	1846	5706				
6	7987	12228	0 - 89	5706	7987				
			89 - 91	7987	12228				
CASING RECORD									
CASING SIZE in	FROM ft	TO ft							
9.625	0	1339							
7	0	7987							

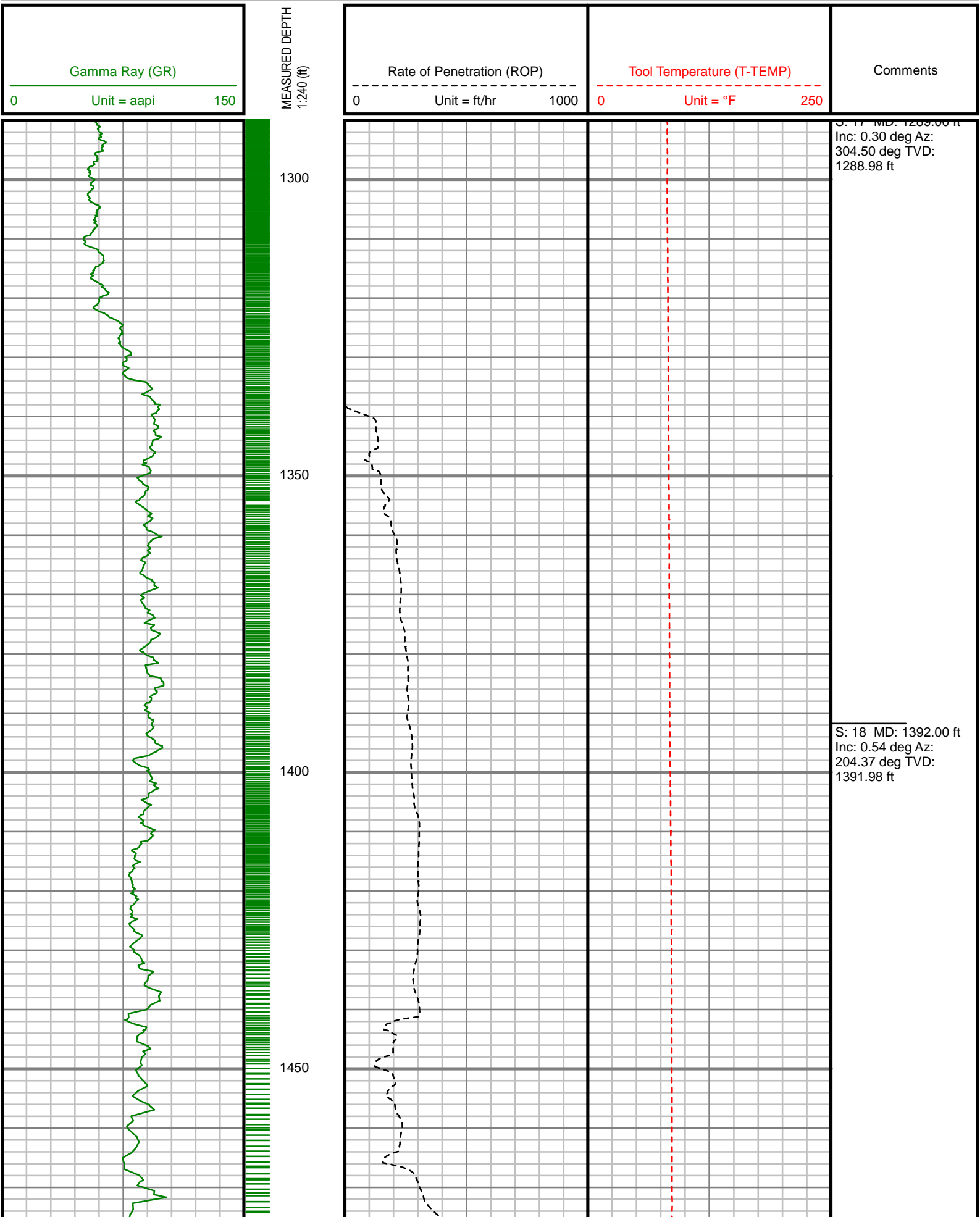
Run Data						
RUN NUMBER	1	2	3	4		
START DATE	03/27/2015	03/28/2015	03/31/2015	04/02/2015		
START TIME	2045	2310	0940	1200		
END DATE	03/28/2015	03/30/2015	04/02/2015	04/03/2015		
END TIME	2130	1045	1140	1415		
DEPTH IN (ft)	1339	5731	7987	11524		
DEPTH OUT (ft)	5731	7987	11524	12228		
LOG TOP (ft)	1298	5689	7944	11475		
LOG BOTTOM (ft)	5689	7944	11475	12178		
HOLE SIZE (in)	8.75	8.75	6.125	6.125		
MUD DATA @ (ft)	1323	5371	7987	11442		
MUD TYPE	WATER-BASED	WATER-BASED	WATER-BASED	WATER-BASED		
DENSITY (lb / gal)	8.6	9.1	10.1	9.7		
VISCOSITY (s / qt)	32	38	44	42		
pH	9.0	9.2	9.4	9.4		
FLUID LOSS (cm3 / 30)	-	-	-	-		
SALINITY (ppm)	-	-	-	-		
Rm (ohmm @ deg F)	-	-	-	-		
Rmf (ohmm @ deg F)	-	-	-	-		
MAX TEMP (deg F)	135	162	220	234		
Rm @ MAX TEMP (ohmm)	-	-	-	-		
LWD ENGINEER #1	C. COLLINS	C. COLLINS	C. COLLINS	C. COLLINS		
LWD ENGINEER #2	S. NEJAD	S. NEJAD	S. NEJAD	S. NEJAD		
LWD ENGINEER #3	-	-	-	-		
LOG WITNESS #1	J. MORGAN	J. MORGAN	J. MORGAN	J. MORGAN		
LOG WITNESS #2	-	-	-	-		

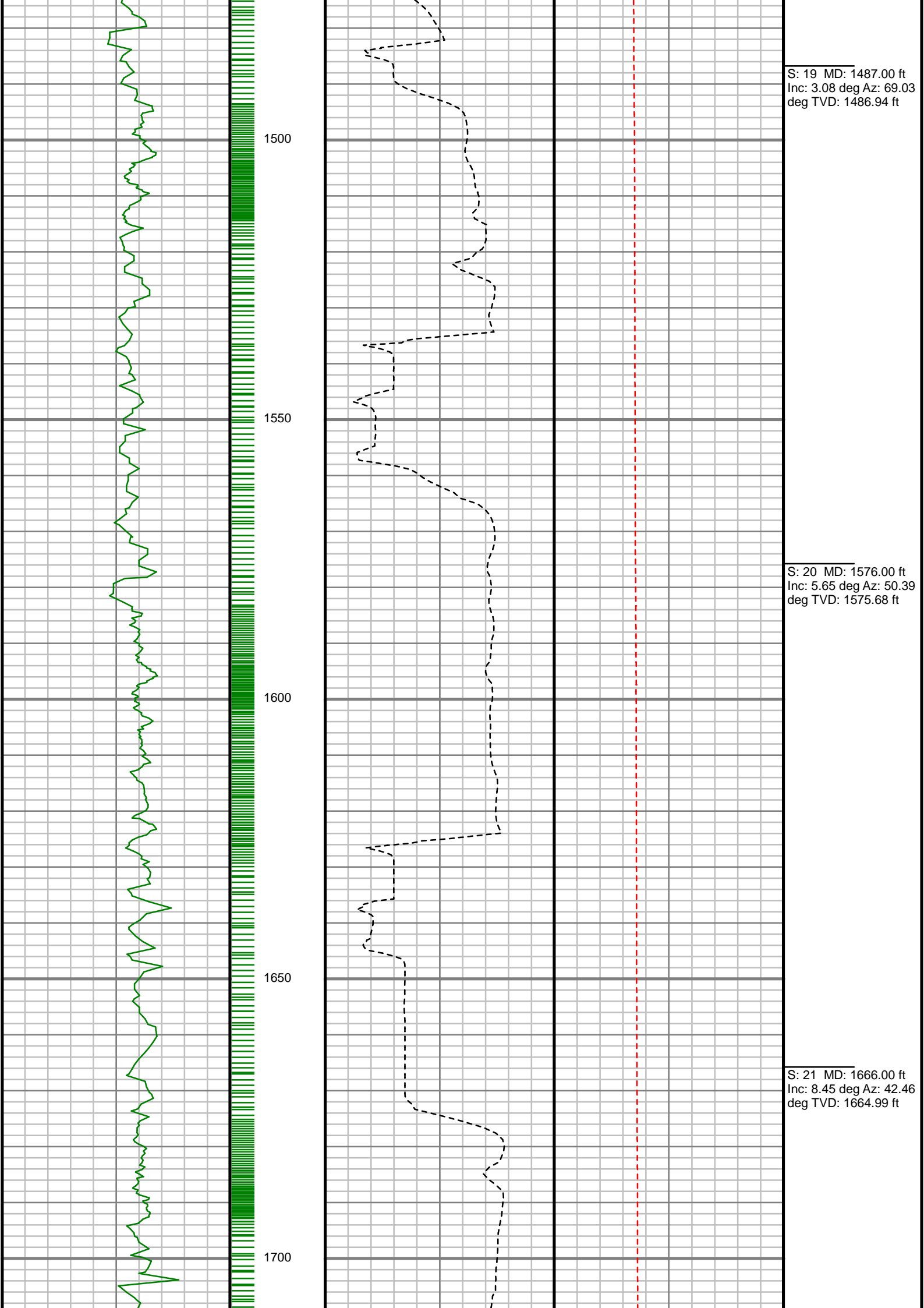
Remarks
ANADARKO E&P ONSHORE LLC PRODUCTION AFE# 2063333
SCIENTIFIC DRILLING INTERNATIONAL JOB# 267005
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
RUN # 1: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-265 / CONT = 939 / MWD EYE = 1017 / GAMMA RAY = 1302
BIT TO SENSOR OFFSETS: SURVEY = 50.21 FT. / GAMMA RAY = 41.56 FT.
RUN # 2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-265 / CONT = 939 / MWD EYE = 1017 / GAMMA RAY = 1302
BIT TO SENSOR OFFSETS: SURVEY = 51.45 FT. / GAMMA RAY = 42.74 FT.
RUN # 3: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 78-081 / CONT = 552 / MWD EYE = 561 / GAMMA RAY = 1060
BIT TO SENSOR OFFSETS: SURVEY = 58.45 FT. / GAMMA RAY = 49.80 FT.
RUN # 4: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 78-197 / CONT = 668 / MWD EYE = 280 / GAMMA RAY = 1099
BIT TO SENSOR OFFSETS: SURVEY = 58.25 FT. / GAMMA RAY = 49.60 FT.

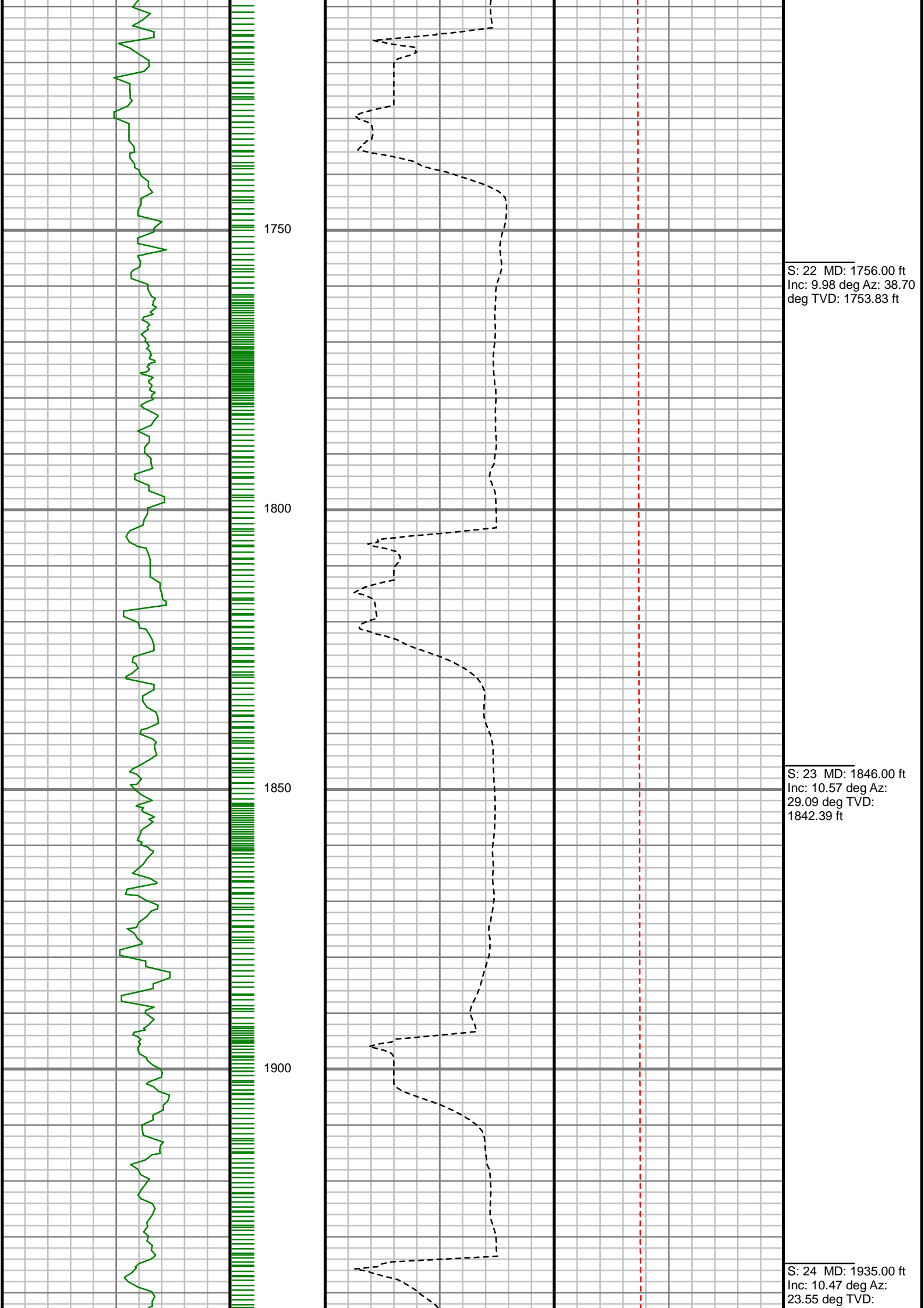
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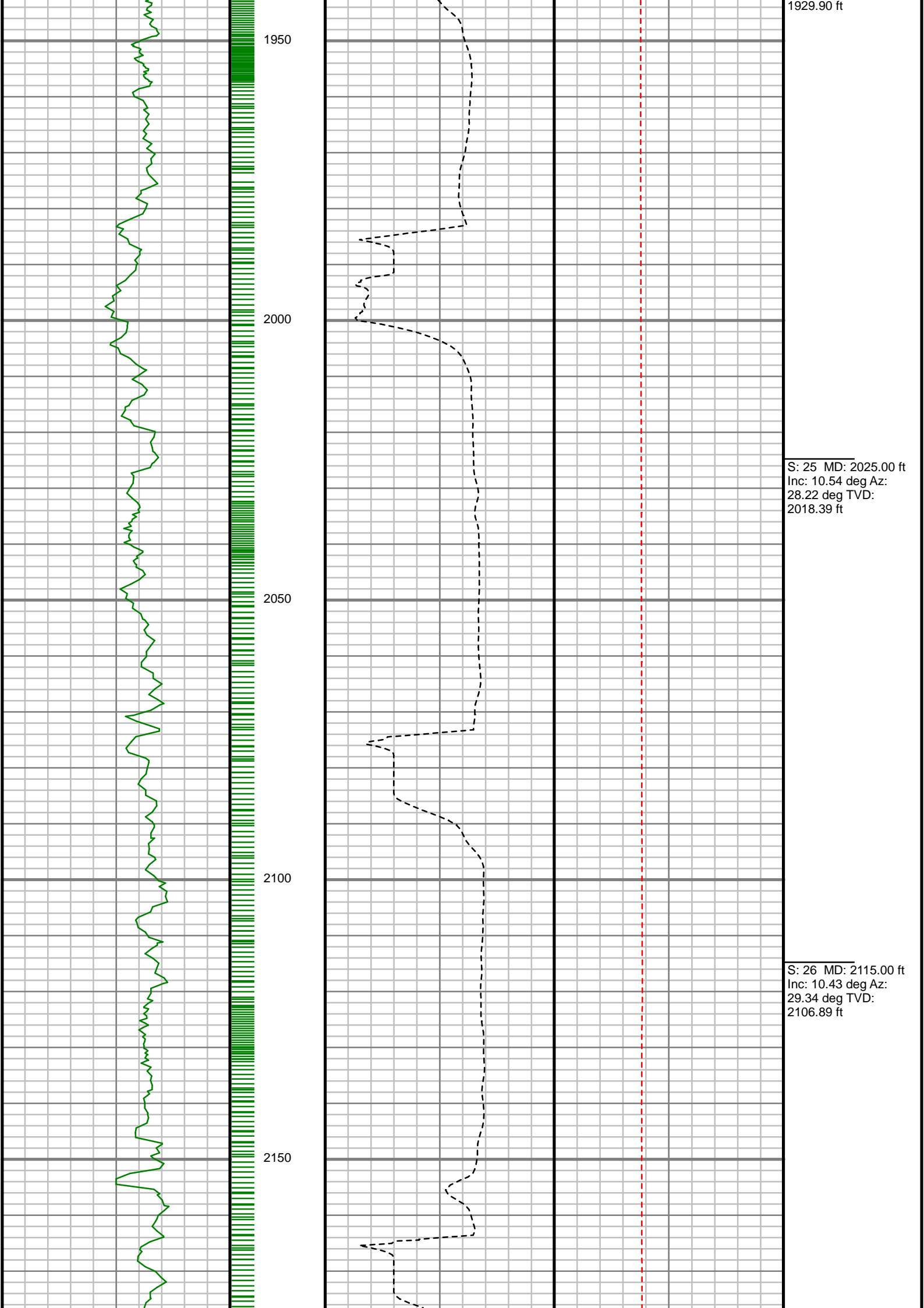
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

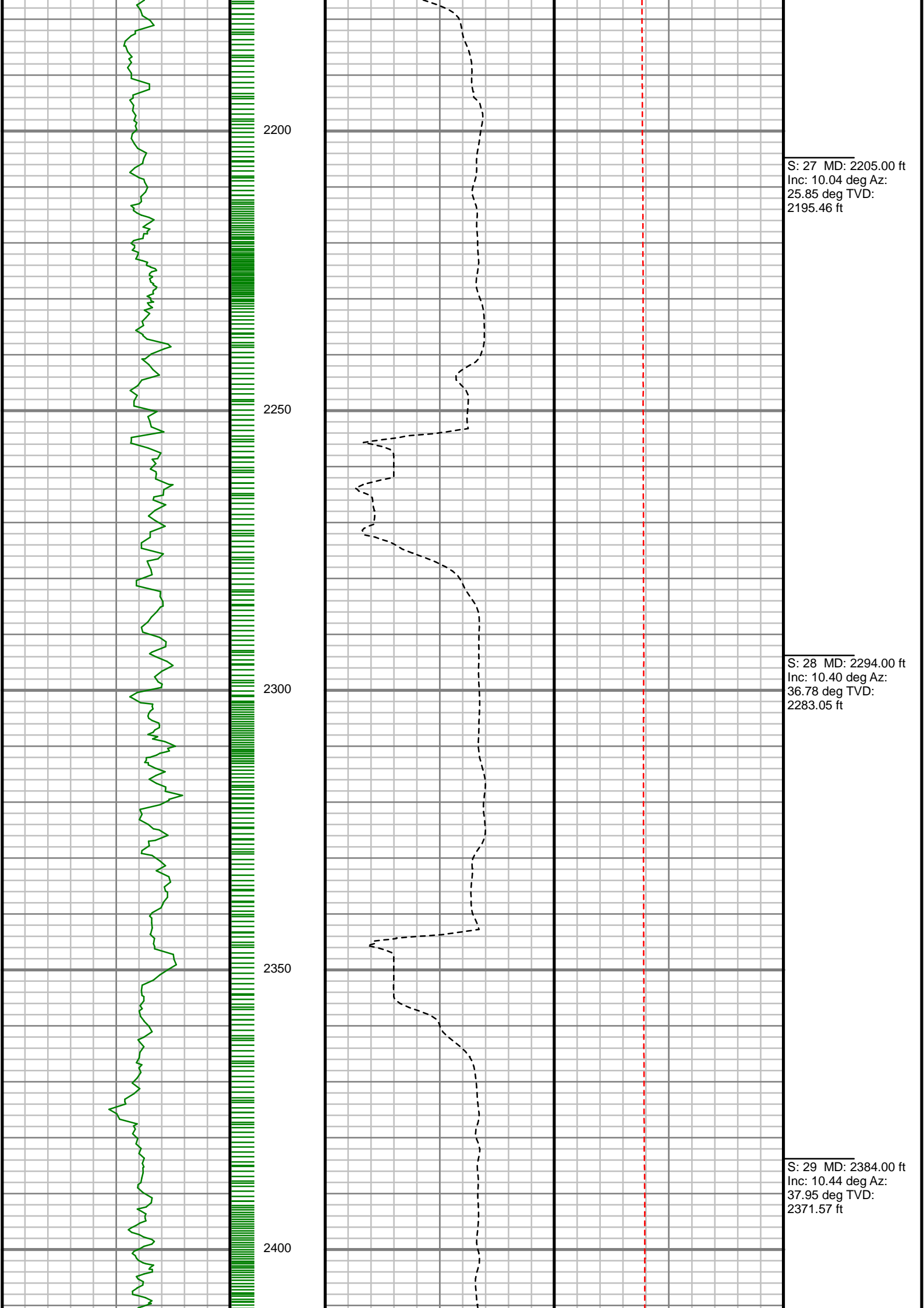
ANADARKO E&P ONSHORE LLC
BUFFALO 35N-15HZ
WATTENBERG FIELD
WELD COUNTY, COLORADO
05-123-36462

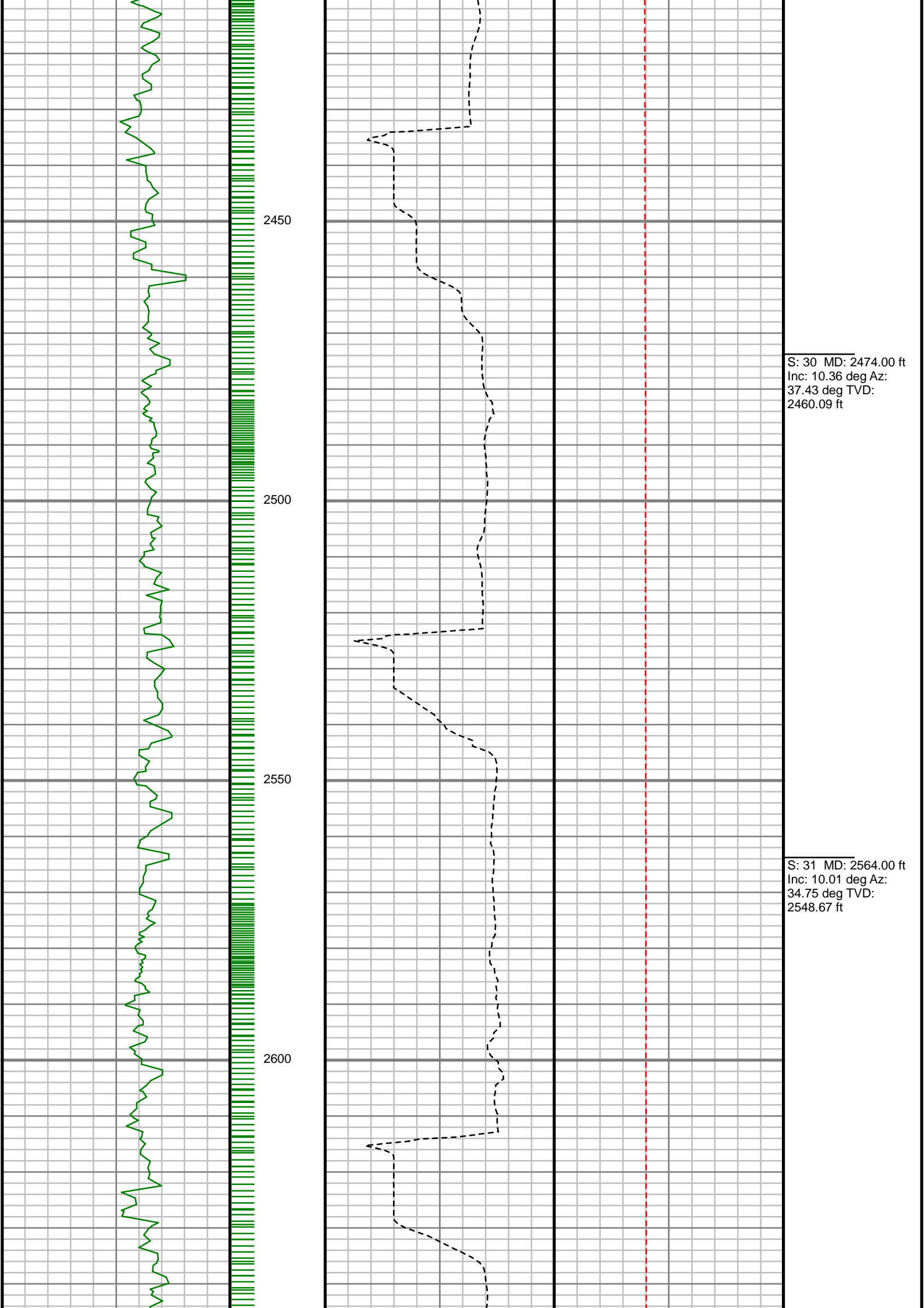


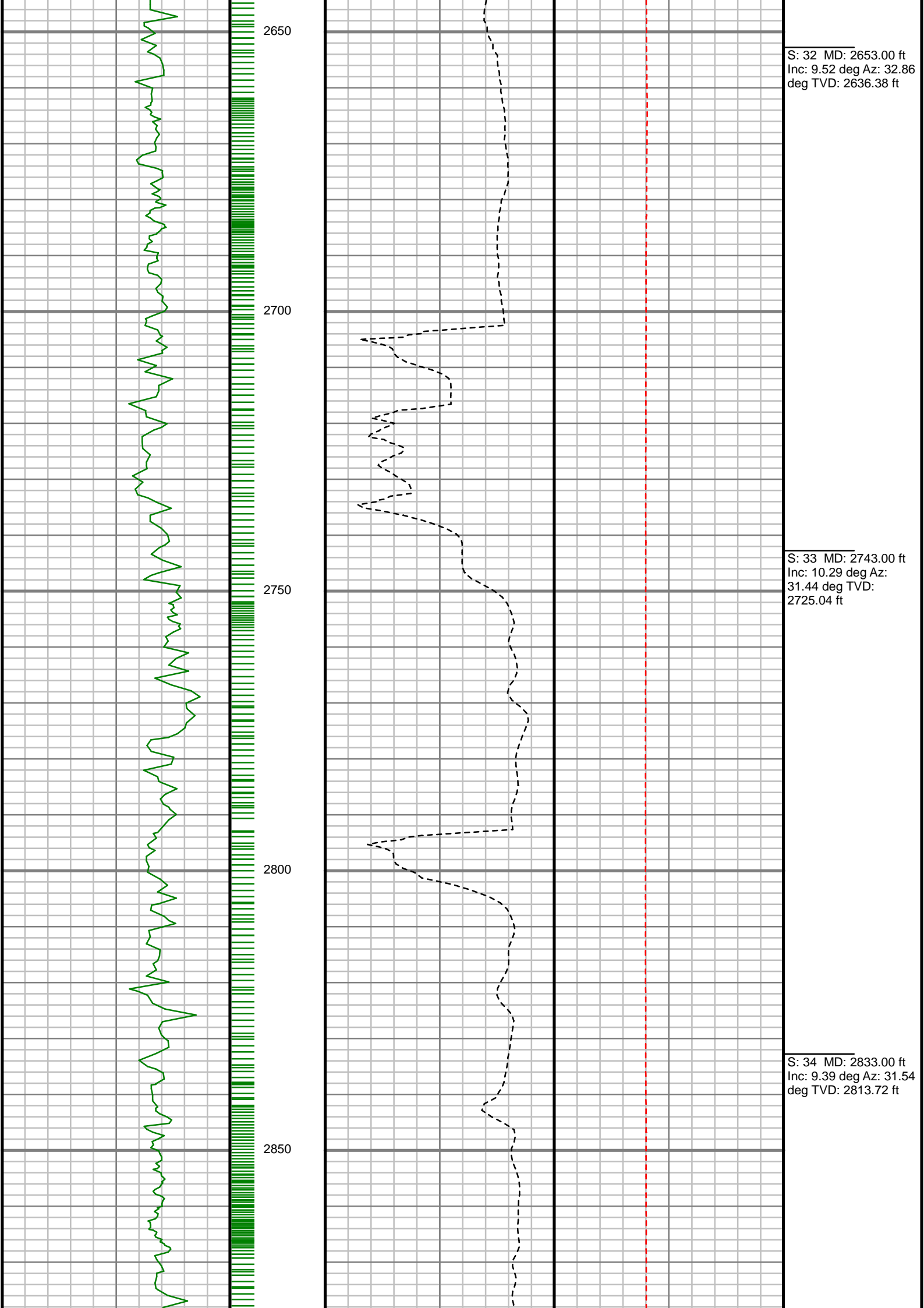


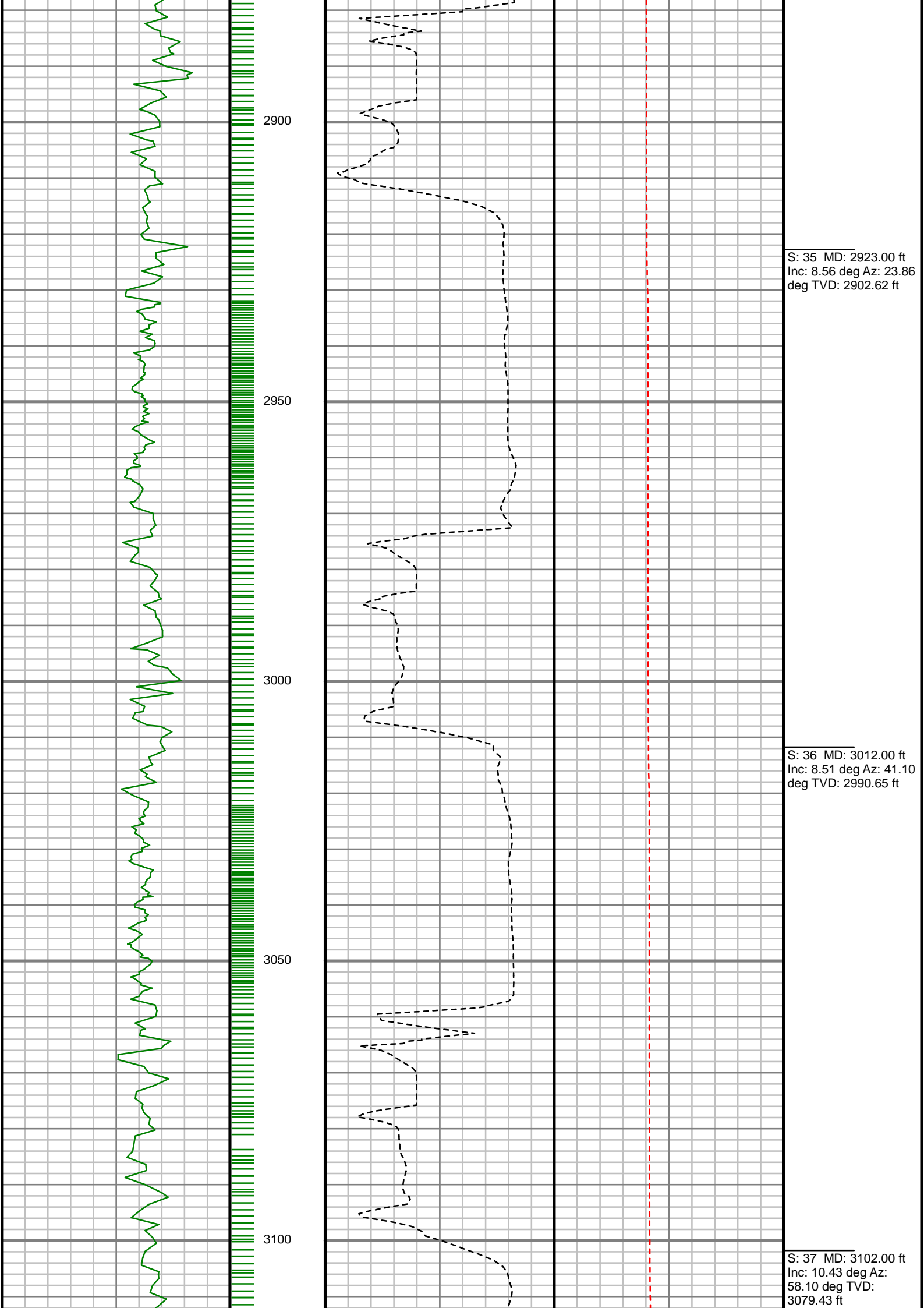


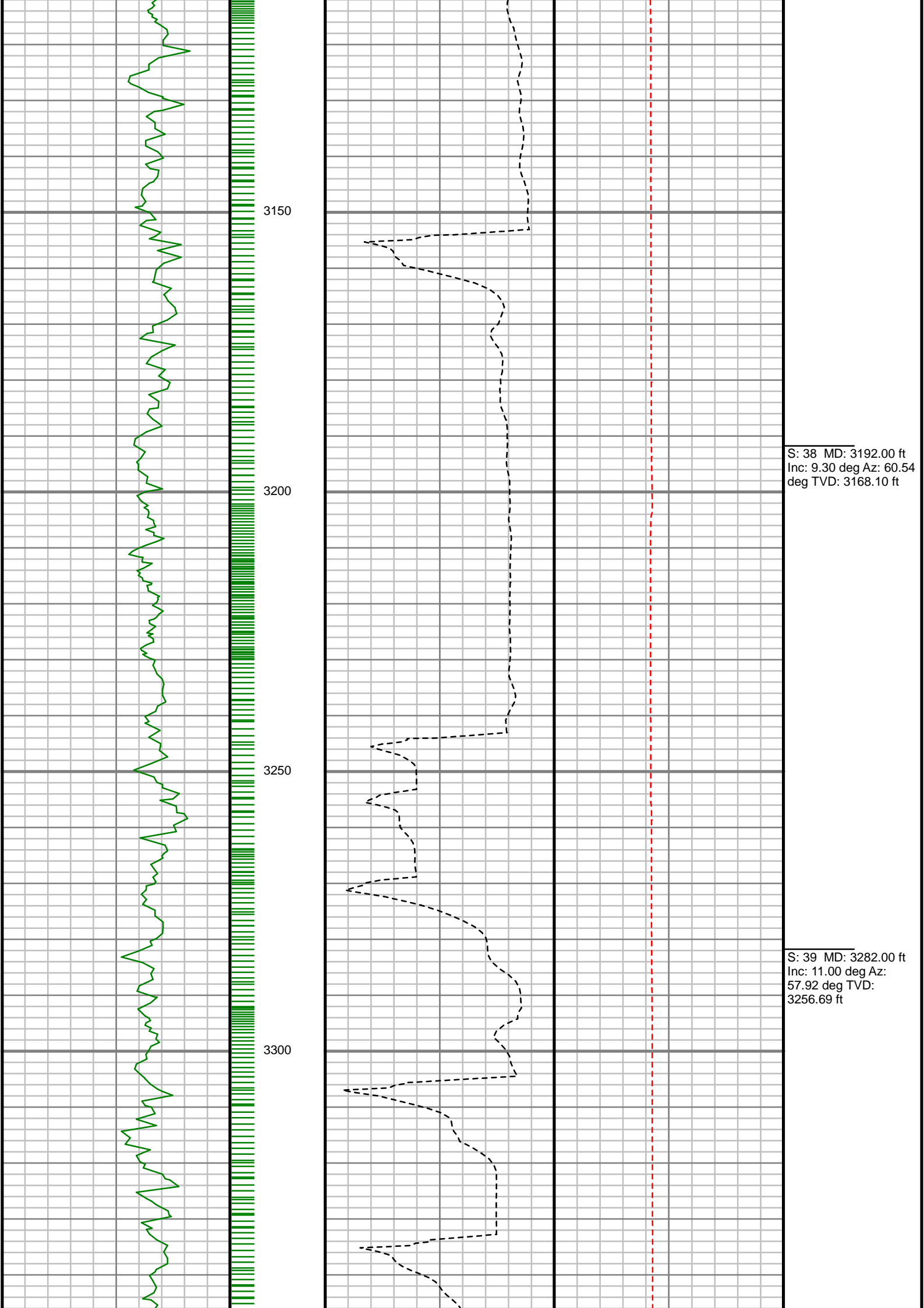


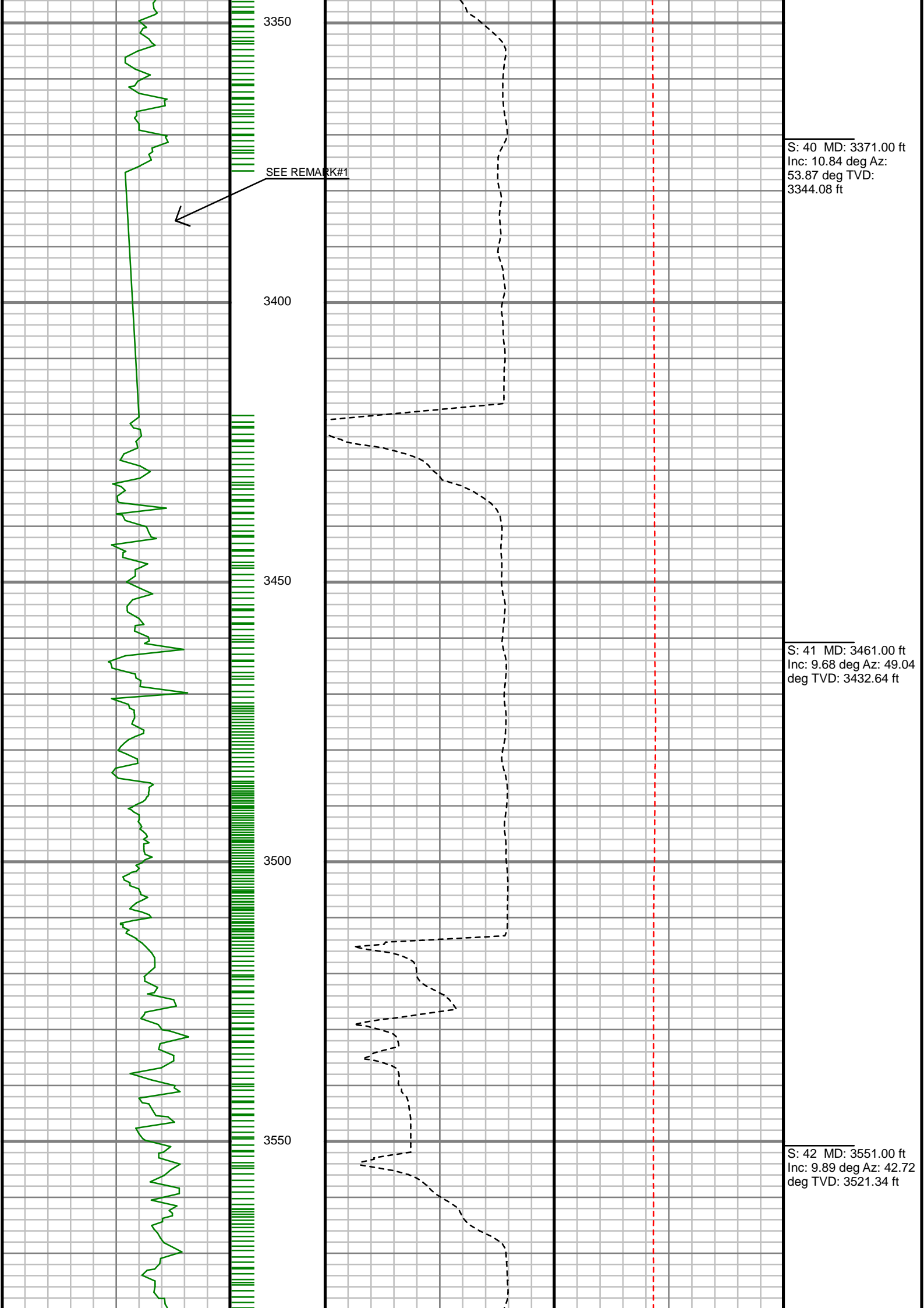


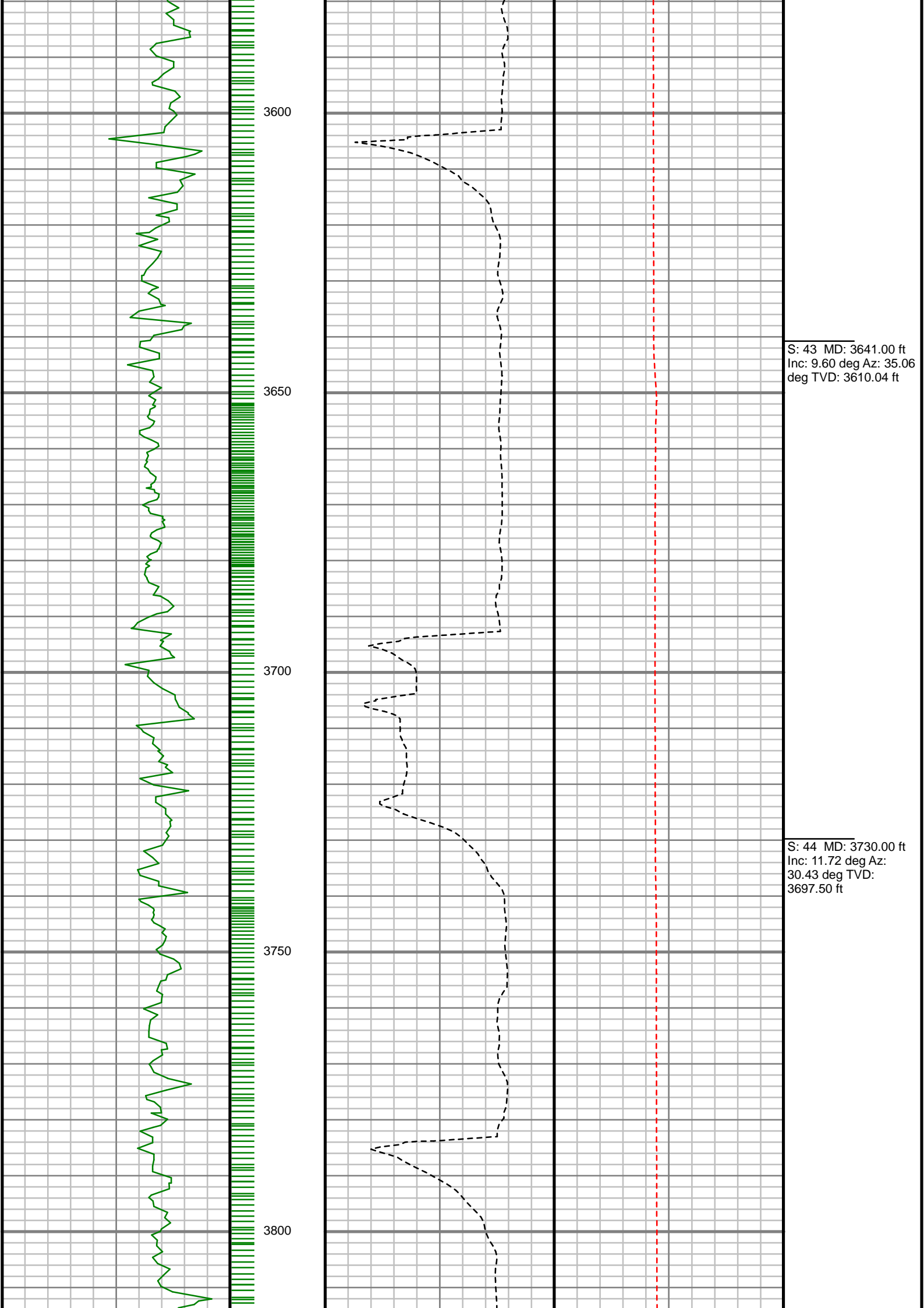


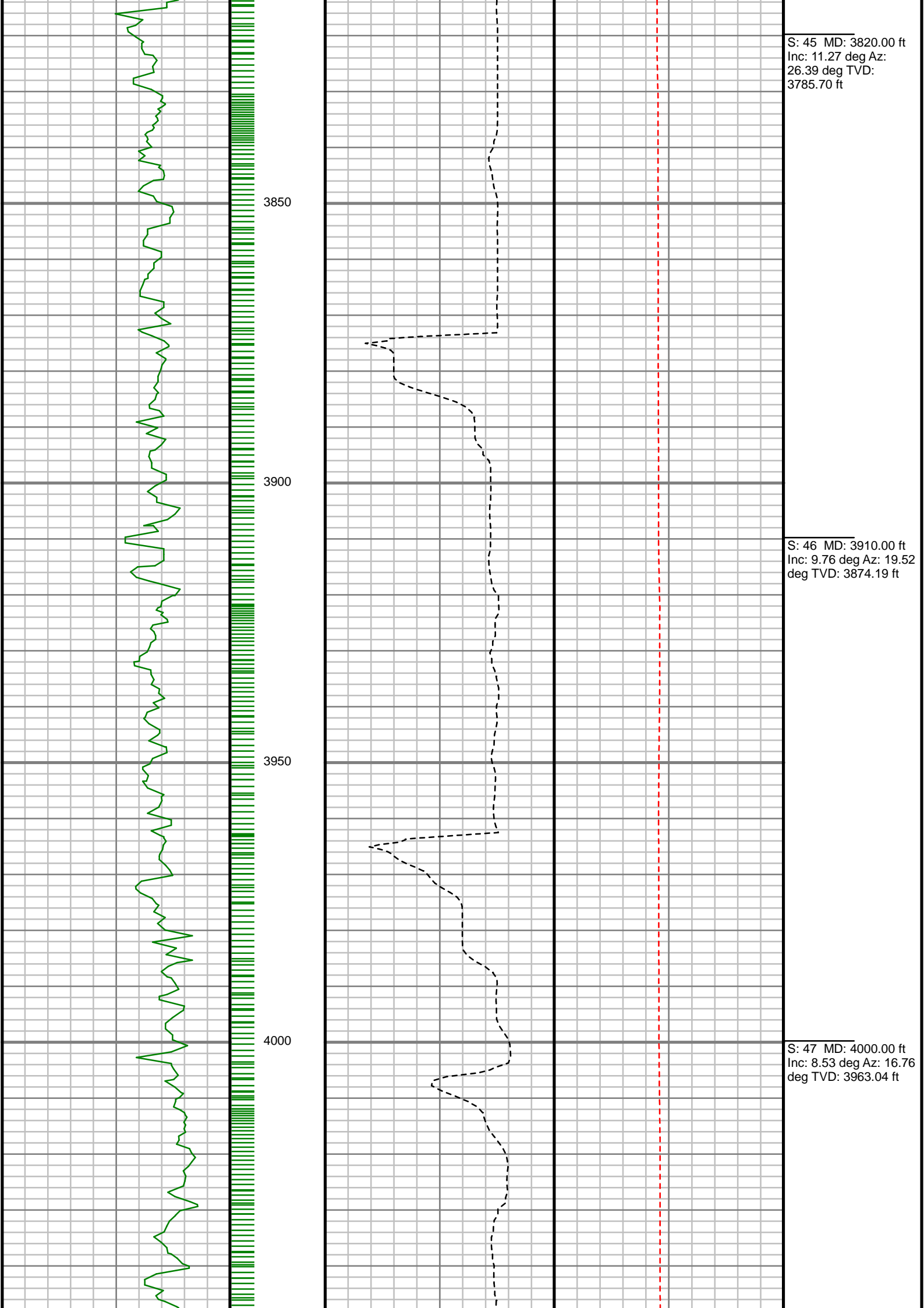


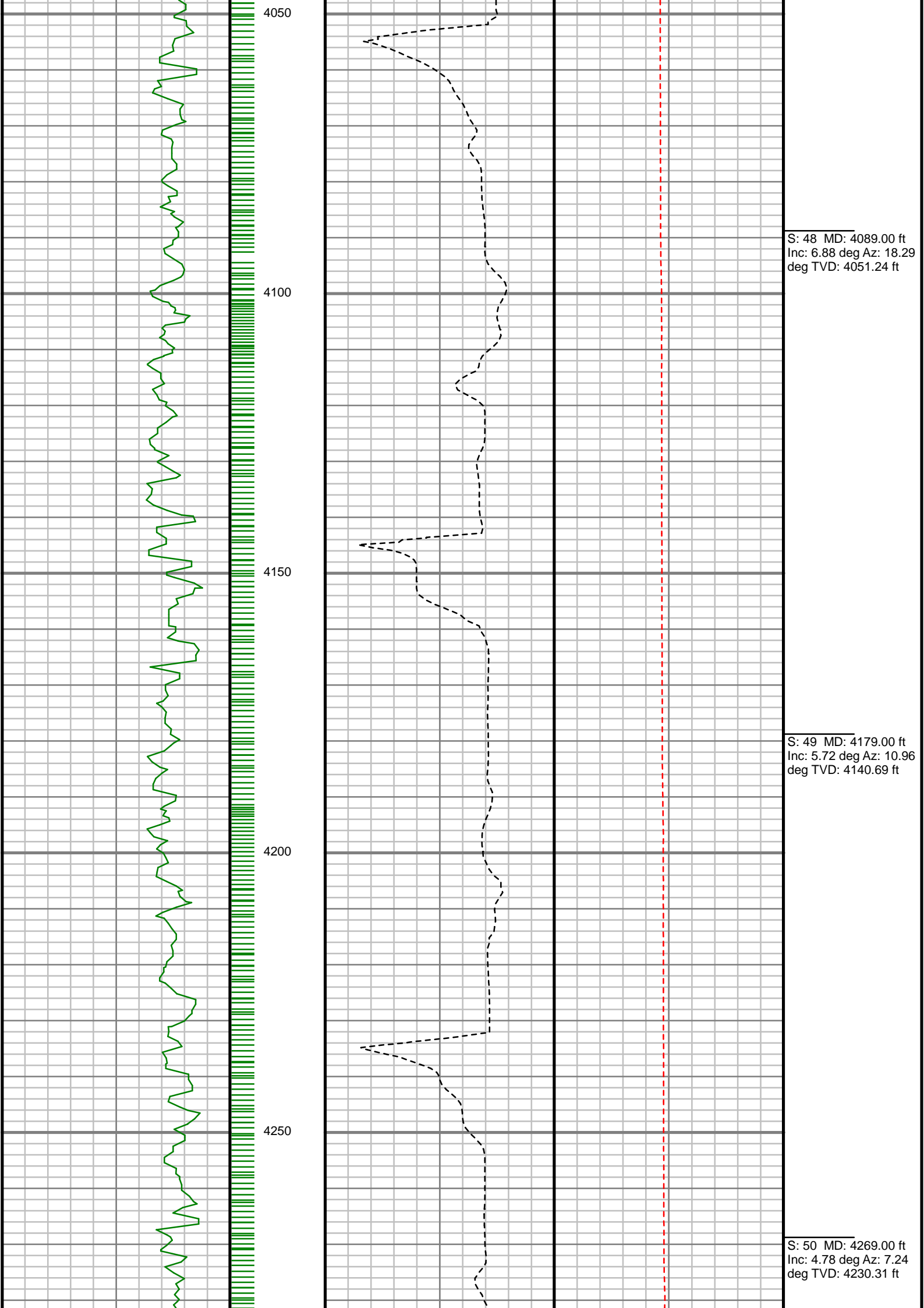


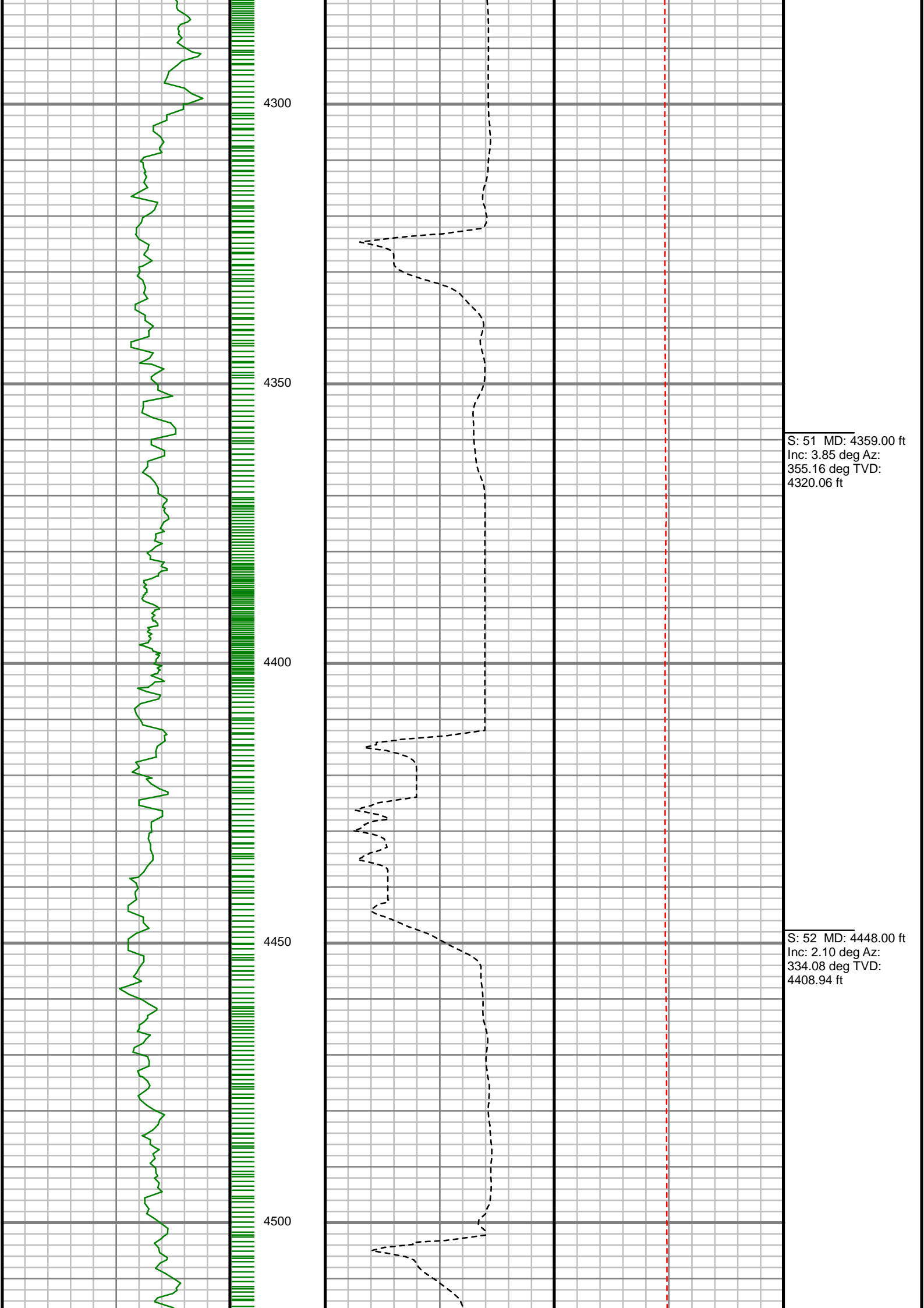


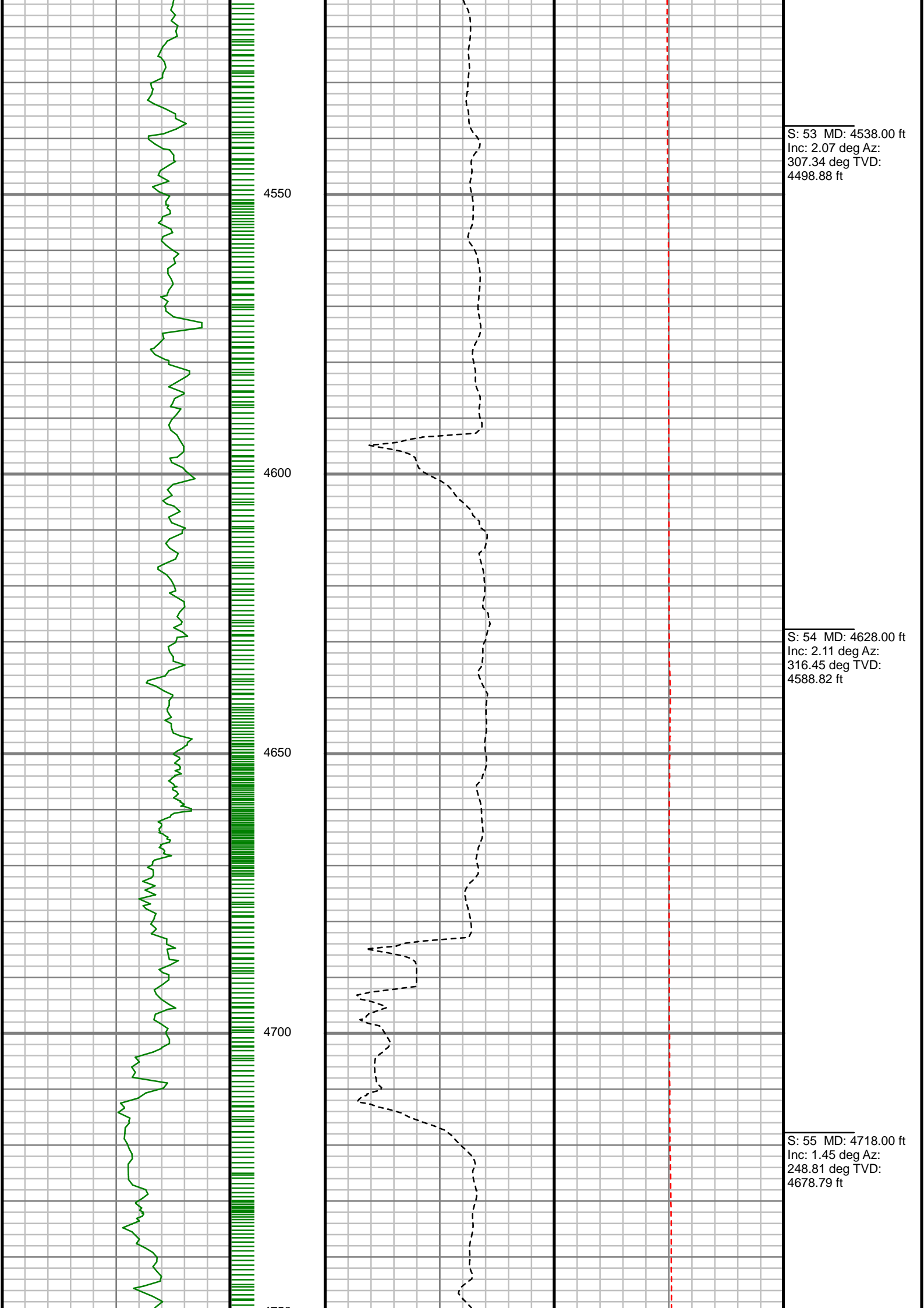


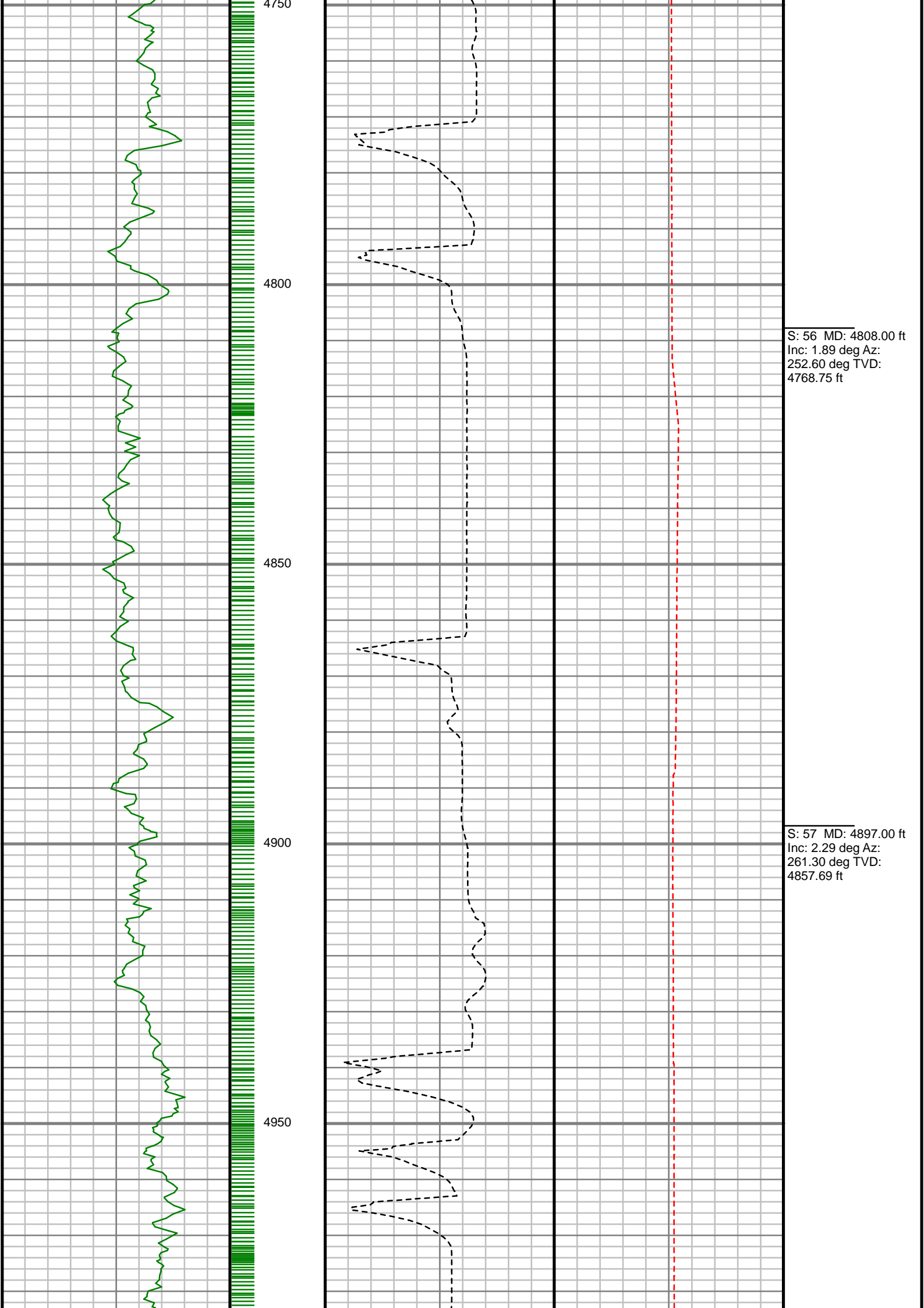






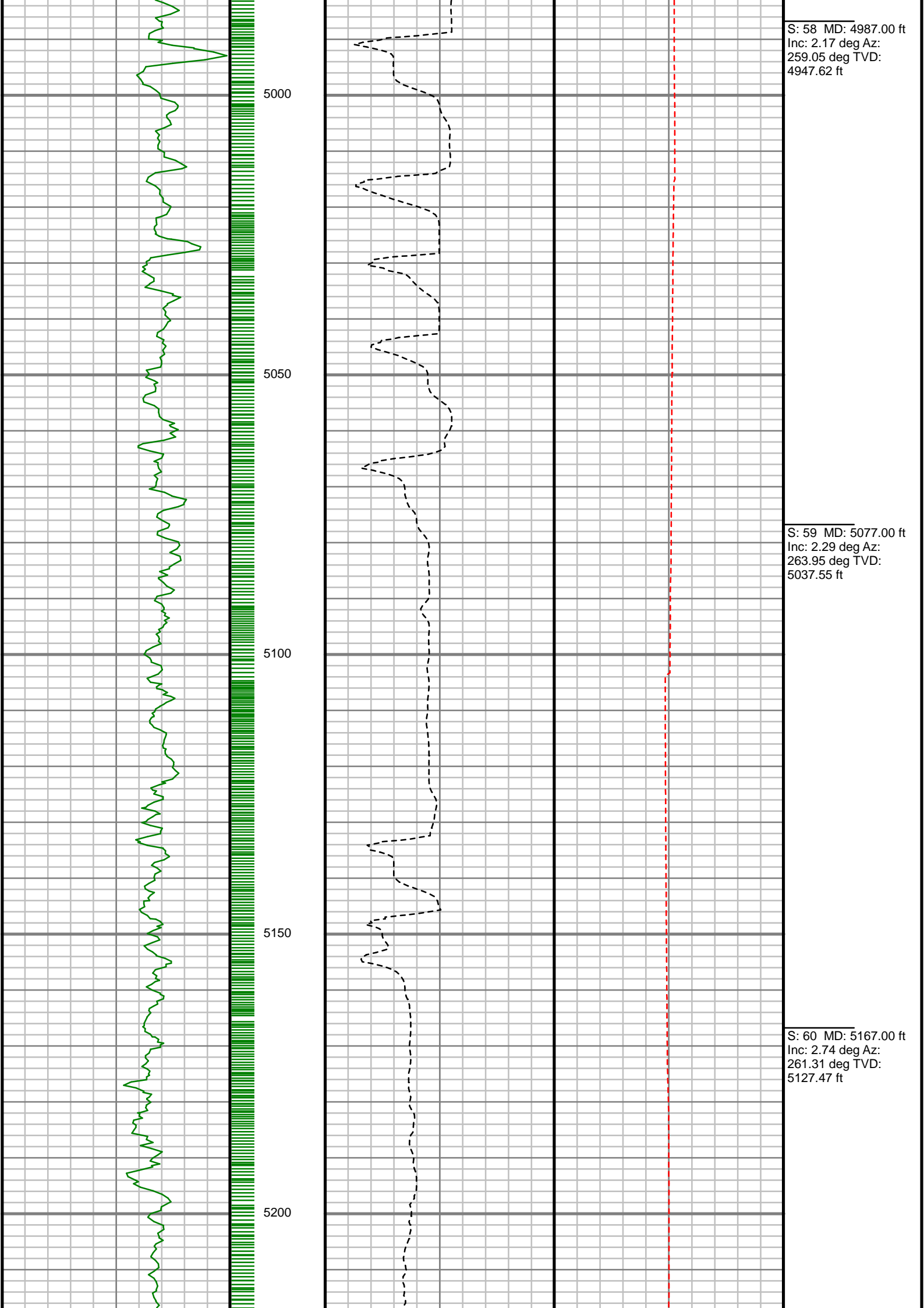






S: 56 MD: 4808.00 ft
Inc: 1.89 deg Az:
252.60 deg TVD:
4768.75 ft

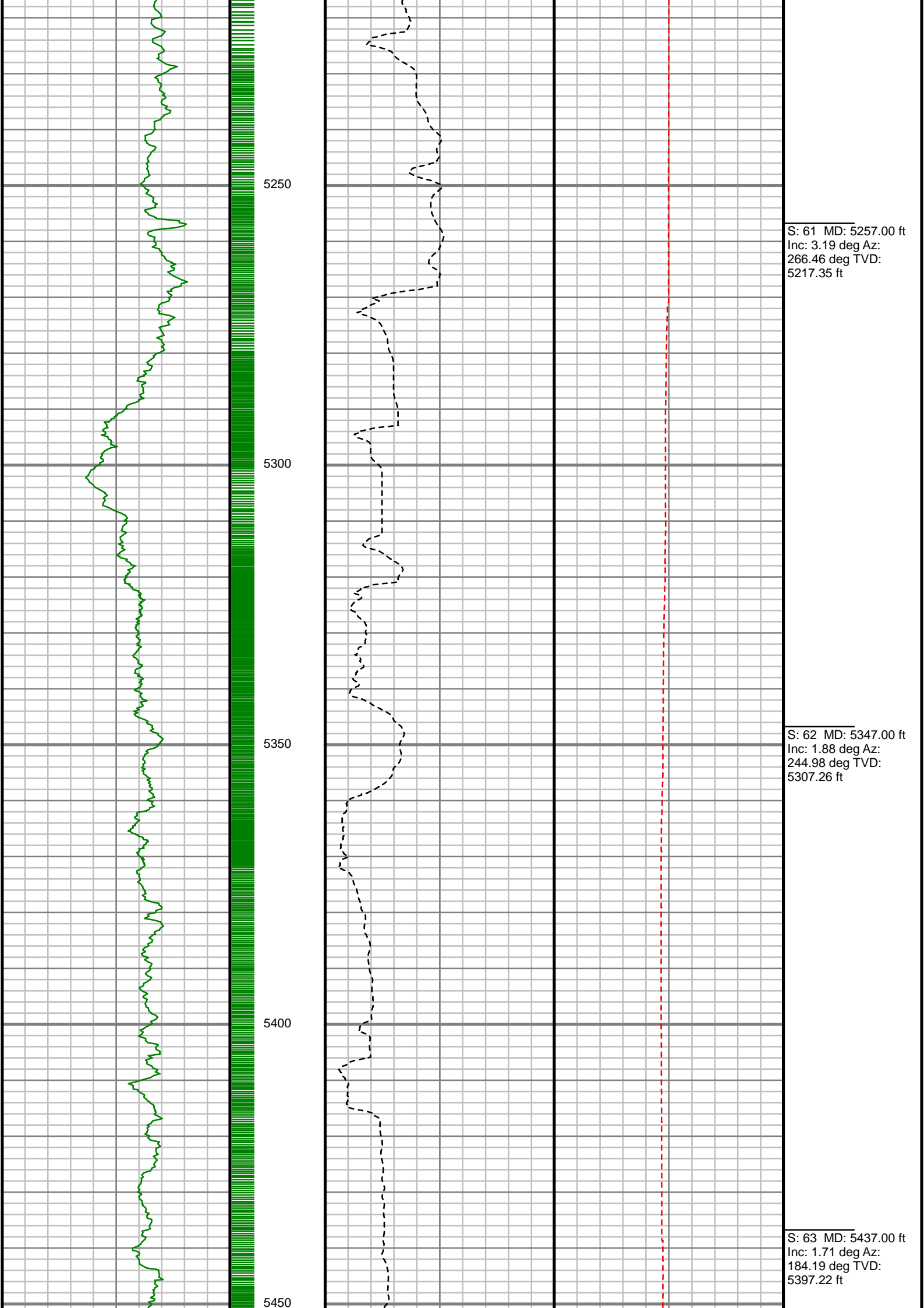
S: 57 MD: 4897.00 ft
Inc: 2.29 deg Az:
261.30 deg TVD:
4857.69 ft

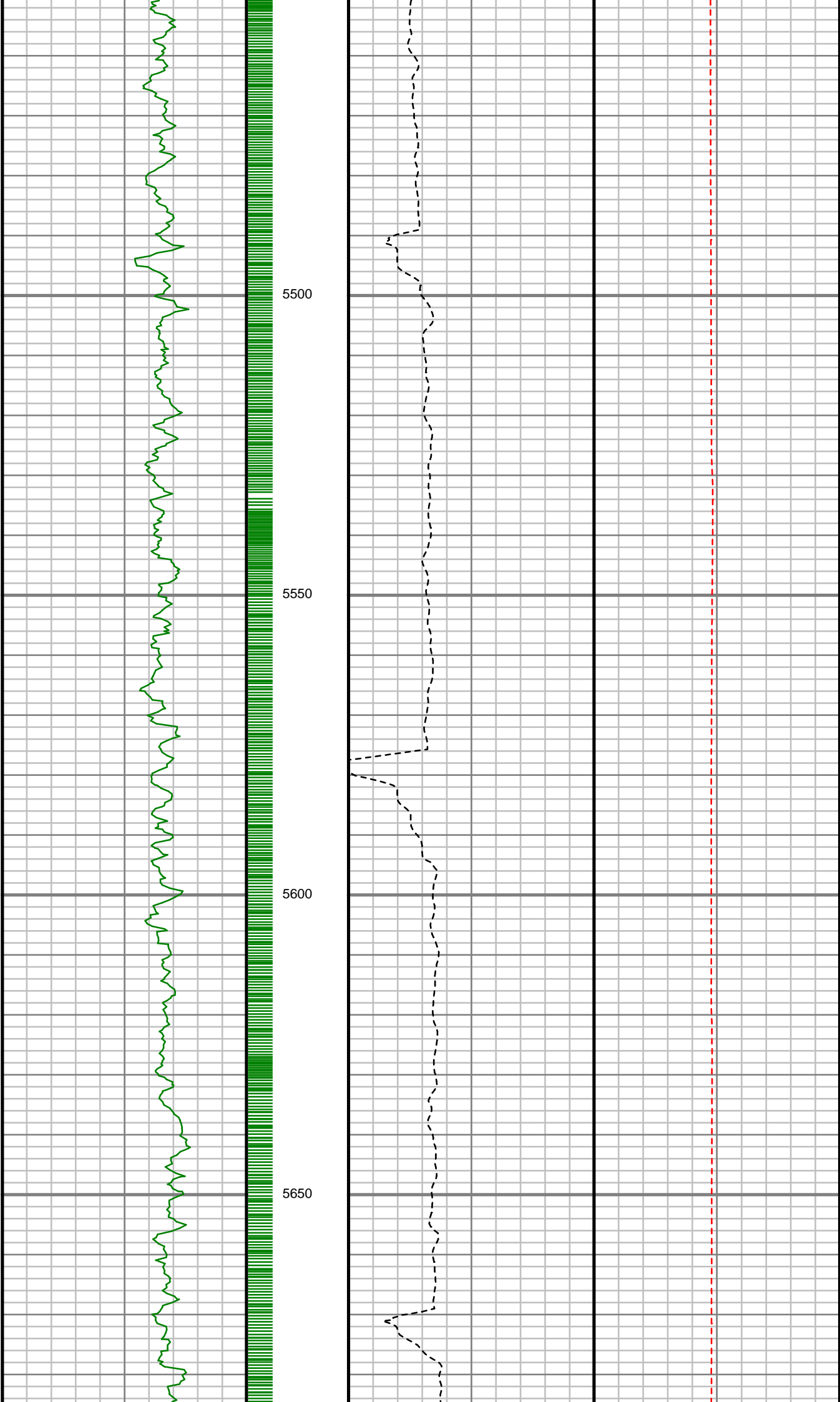


S: 58 MD: 4987.00 ft
Inc: 2.17 deg Az:
259.05 deg TVD:
4947.62 ft

S: 59 MD: 5077.00 ft
Inc: 2.29 deg Az:
263.95 deg TVD:
5037.55 ft

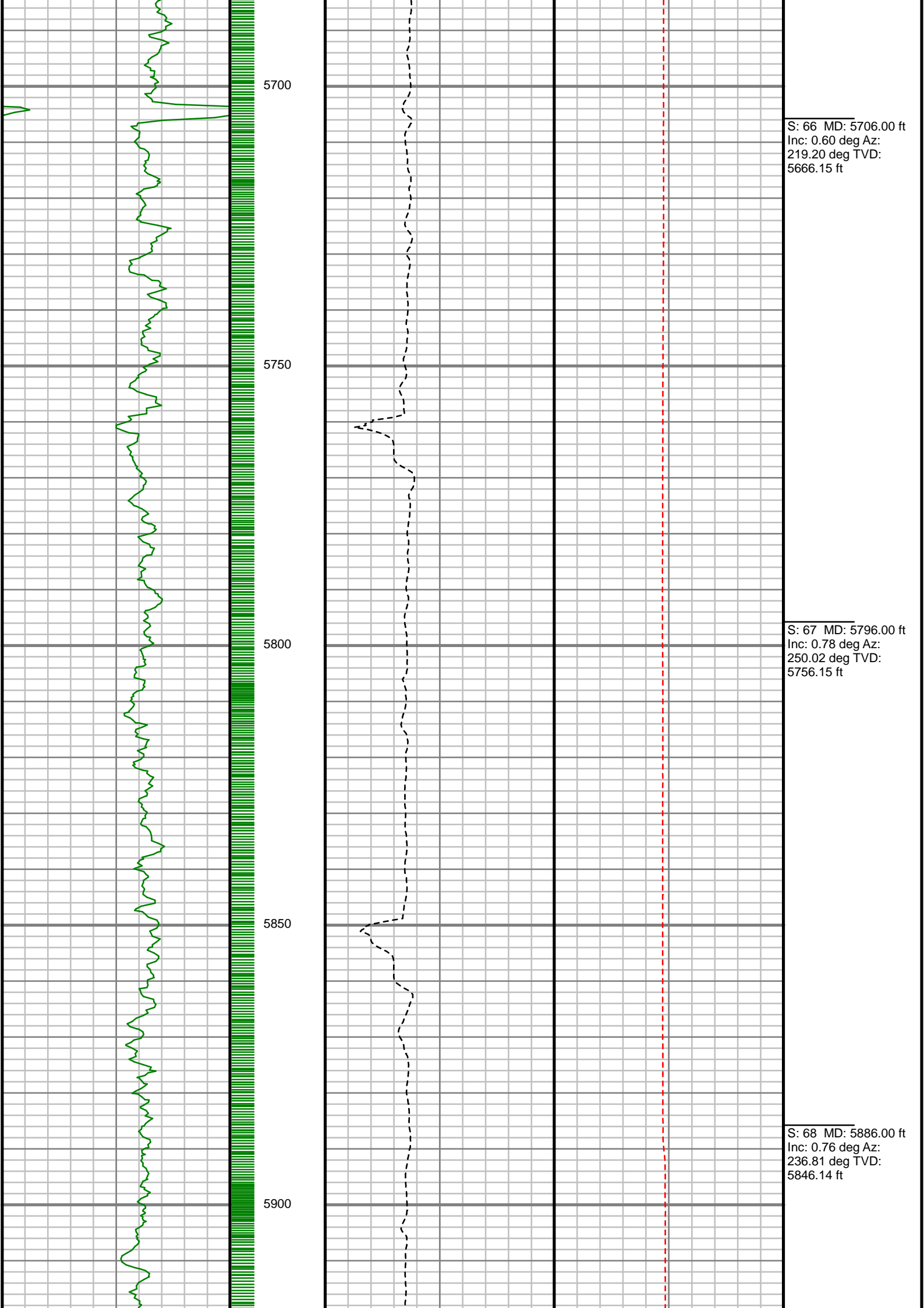
S: 60 MD: 5167.00 ft
Inc: 2.74 deg Az:
261.31 deg TVD:
5127.47 ft

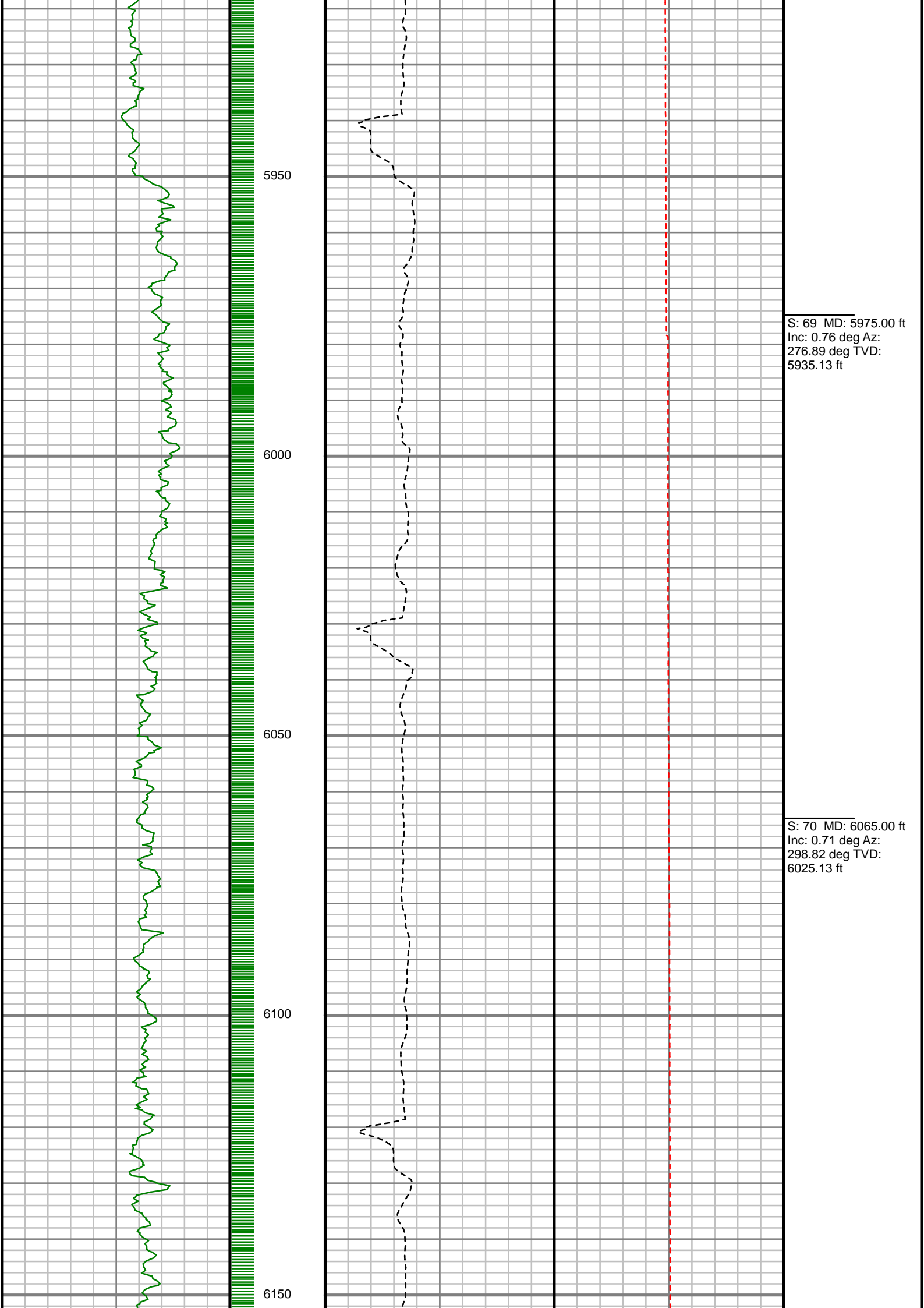


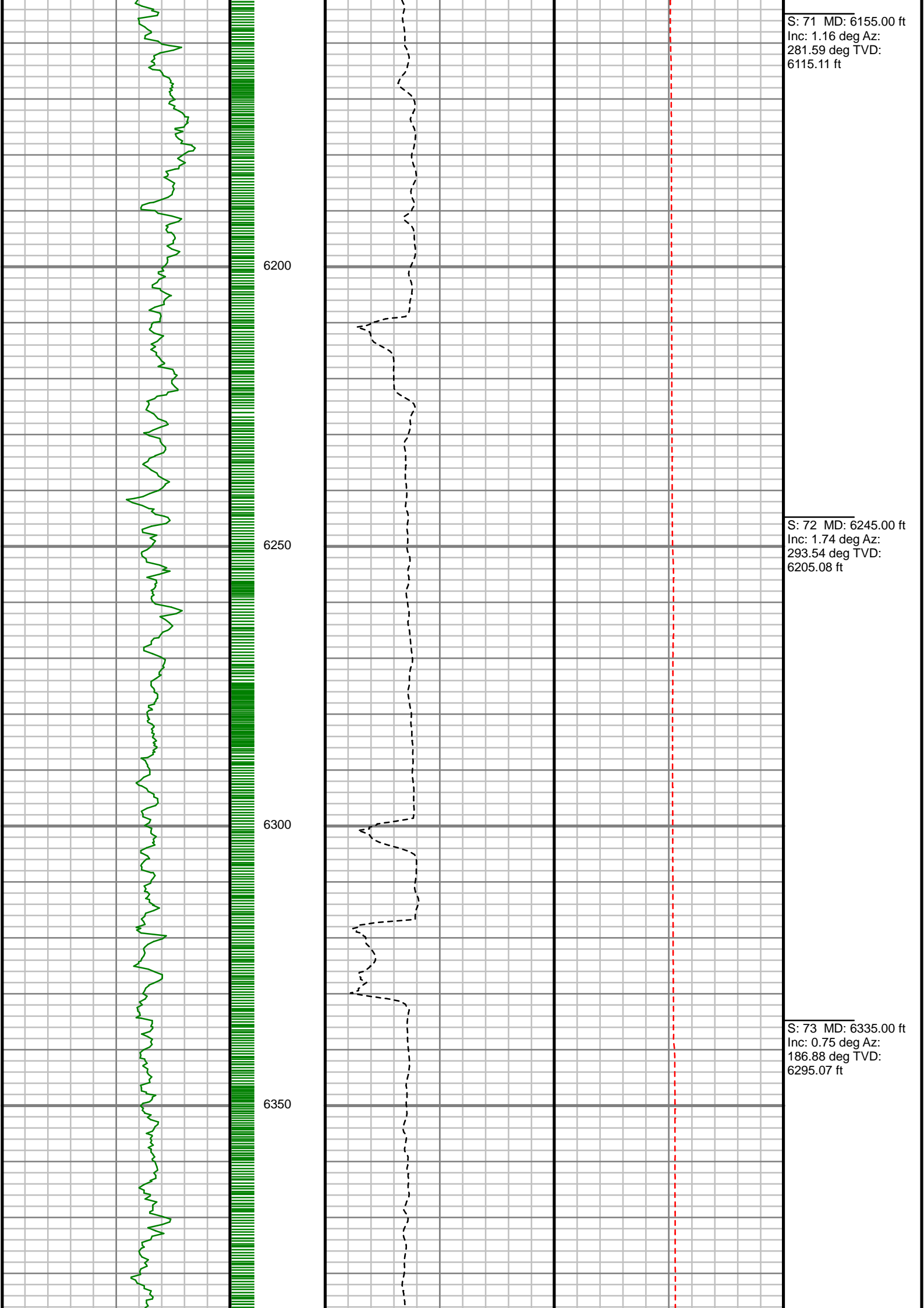


S: 64 MD: 5526.00 ft
Inc: 1.48 deg Az:
182.21 deg TVD:
5486.19 ft

S: 65 MD: 5616.00 ft
Inc: 1.11 deg Az:
194.01 deg TVD:
5576.16 ft



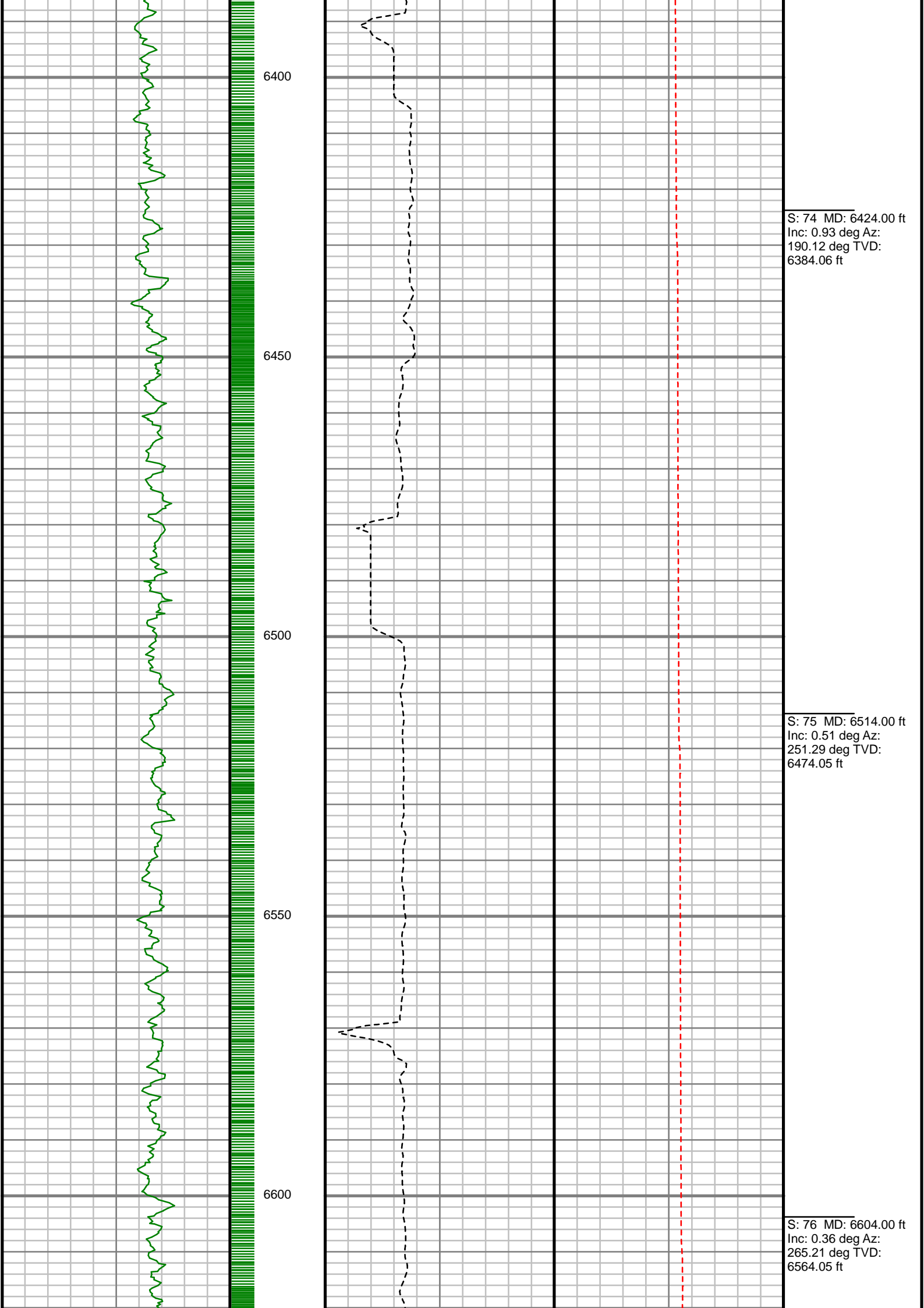


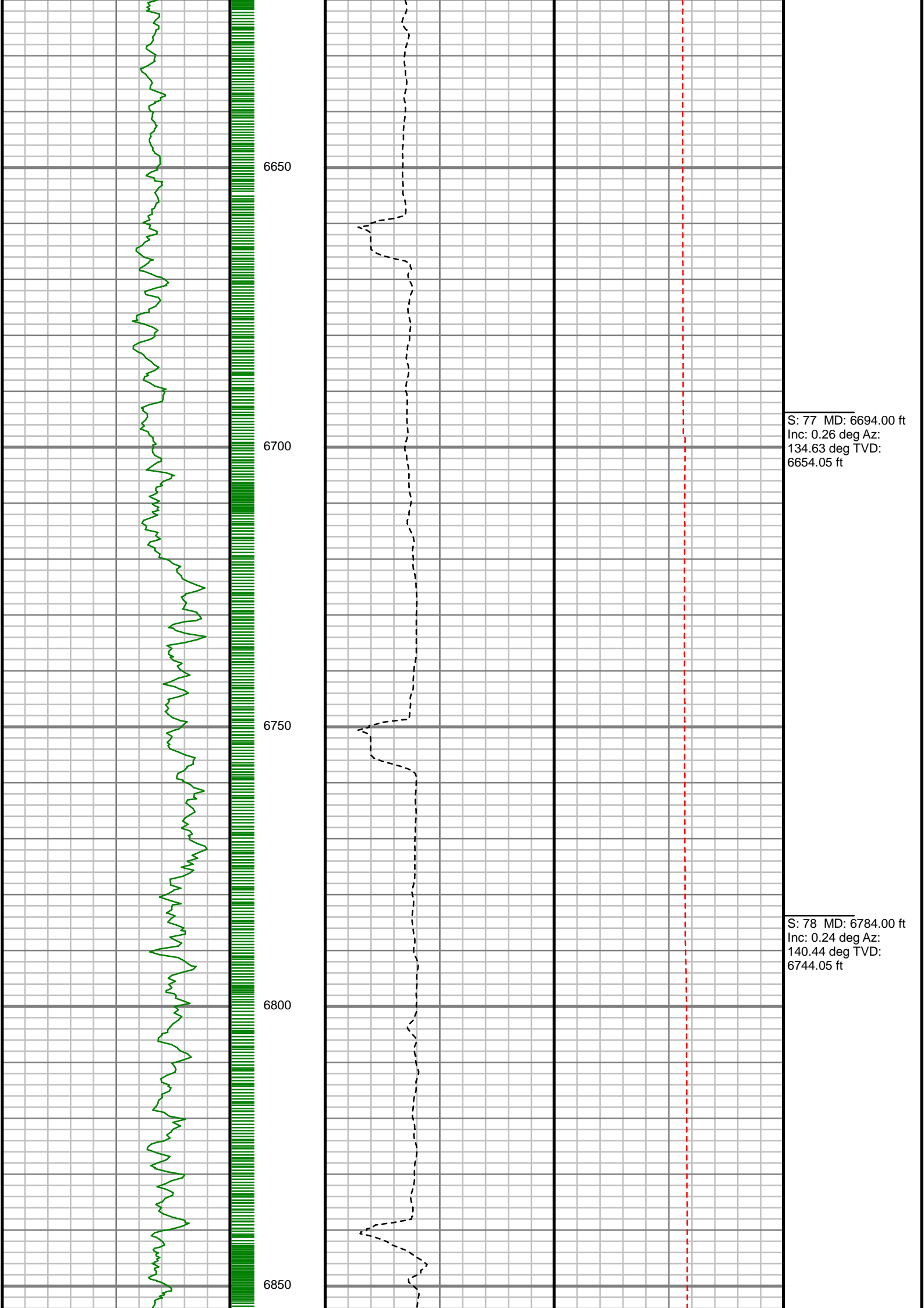


S: 71 MD: 6155.00 ft
Inc: 1.16 deg Az:
281.59 deg TVD:
6115.11 ft

S: 72 MD: 6245.00 ft
Inc: 1.74 deg Az:
293.54 deg TVD:
6205.08 ft

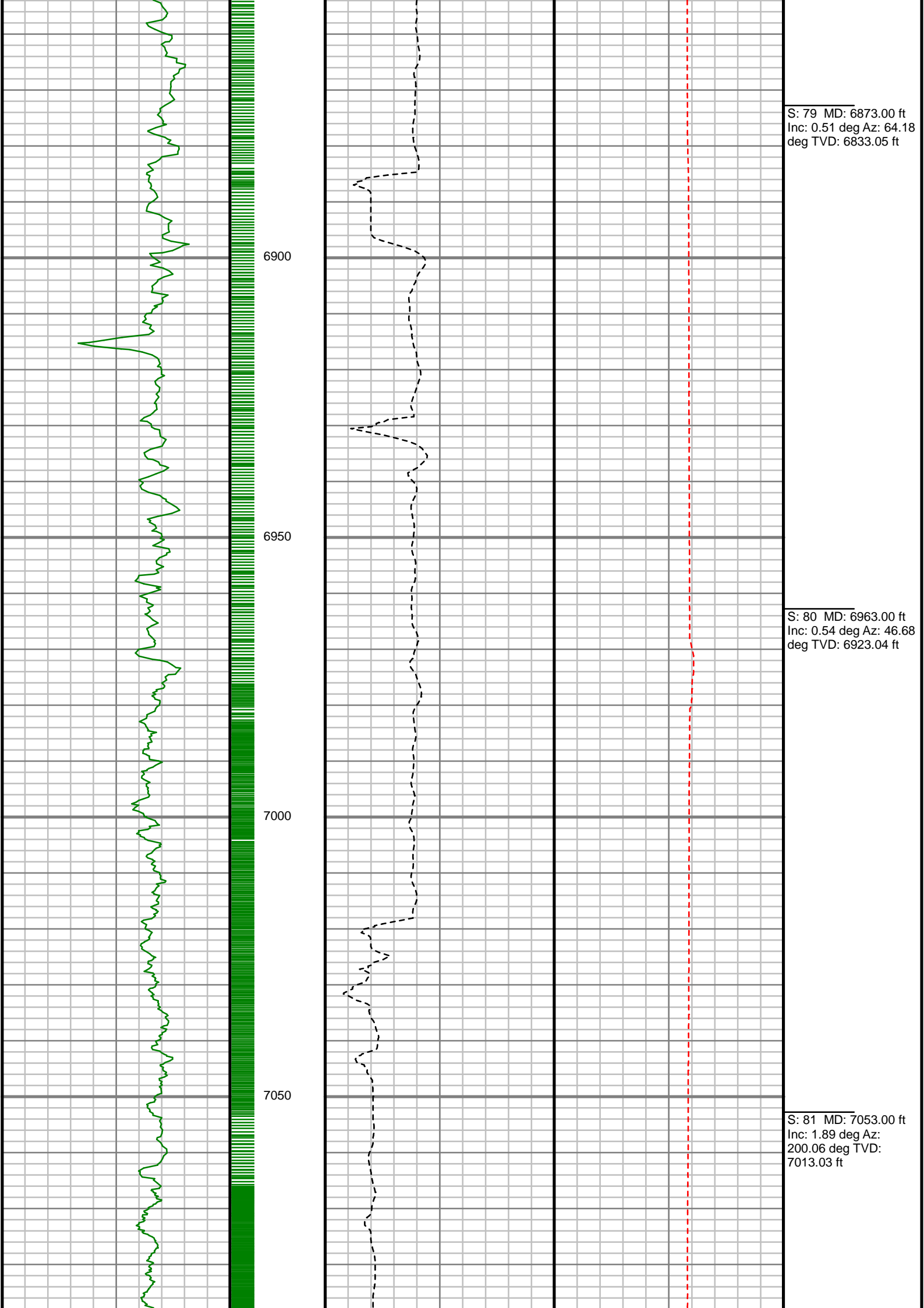
S: 73 MD: 6335.00 ft
Inc: 0.75 deg Az:
186.88 deg TVD:
6295.07 ft

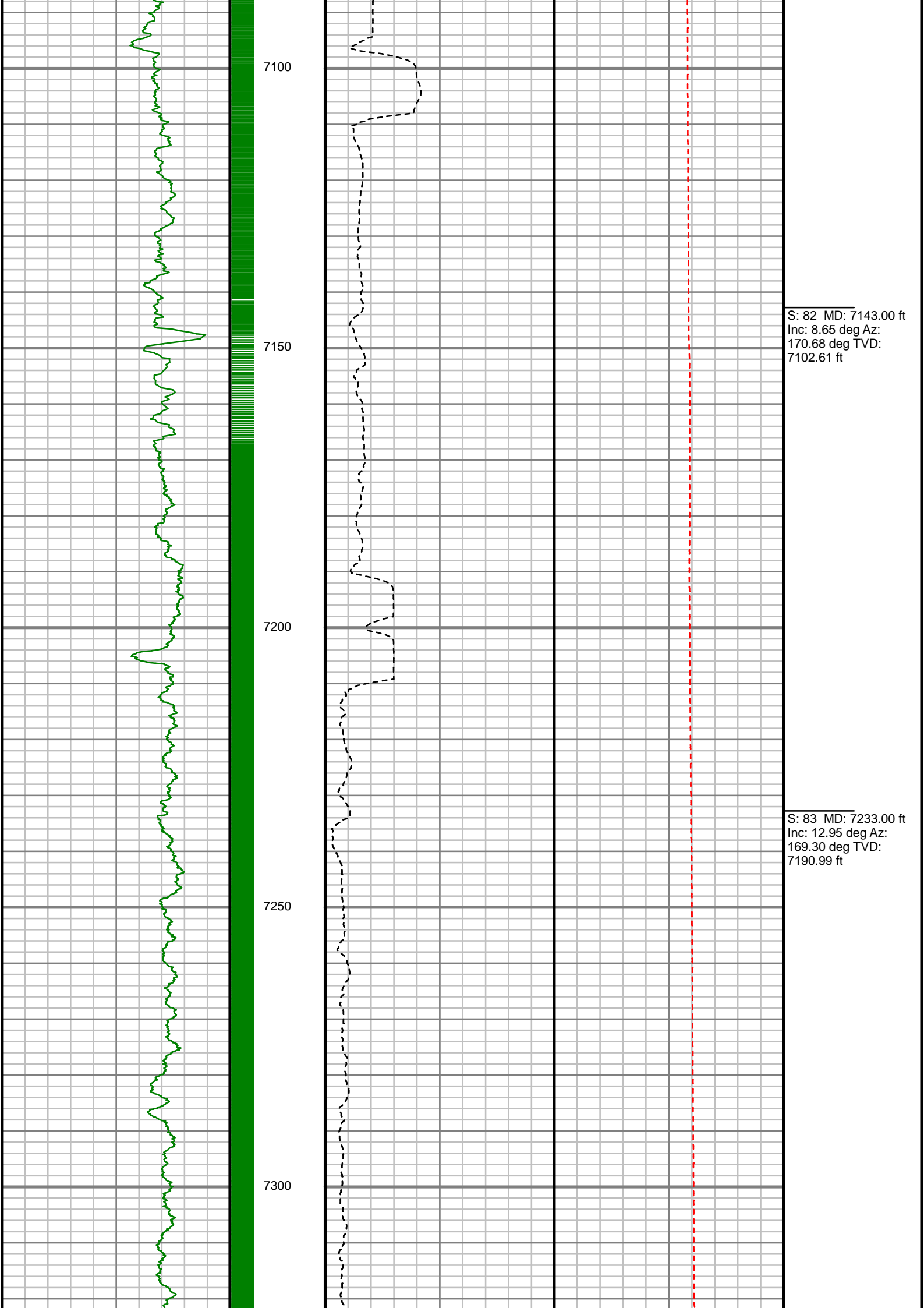




S: 77 MD: 6694.00 ft
Inc: 0.26 deg Az:
134.63 deg TVD:
6654.05 ft

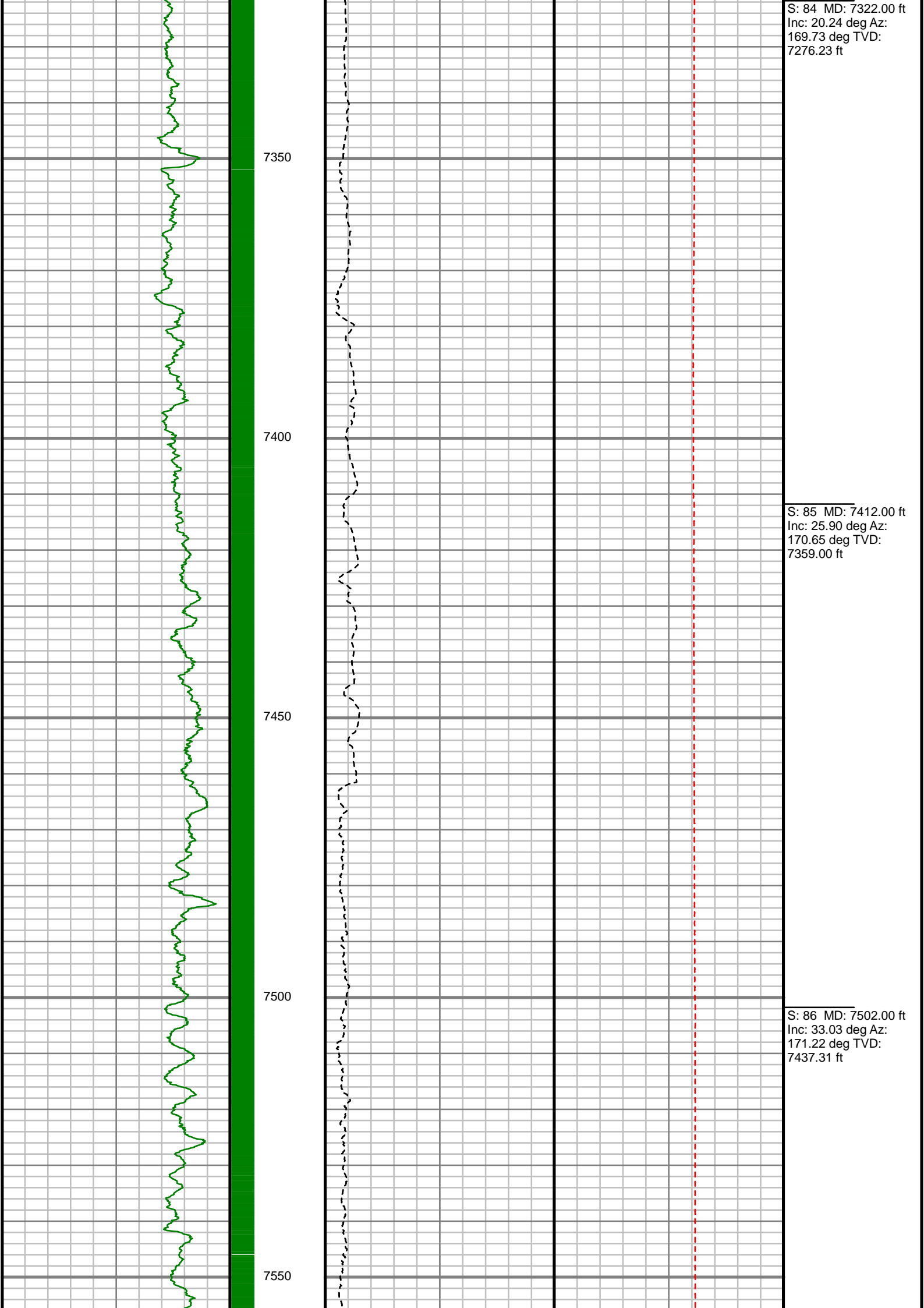
S: 78 MD: 6784.00 ft
Inc: 0.24 deg Az:
140.44 deg TVD:
6744.05 ft

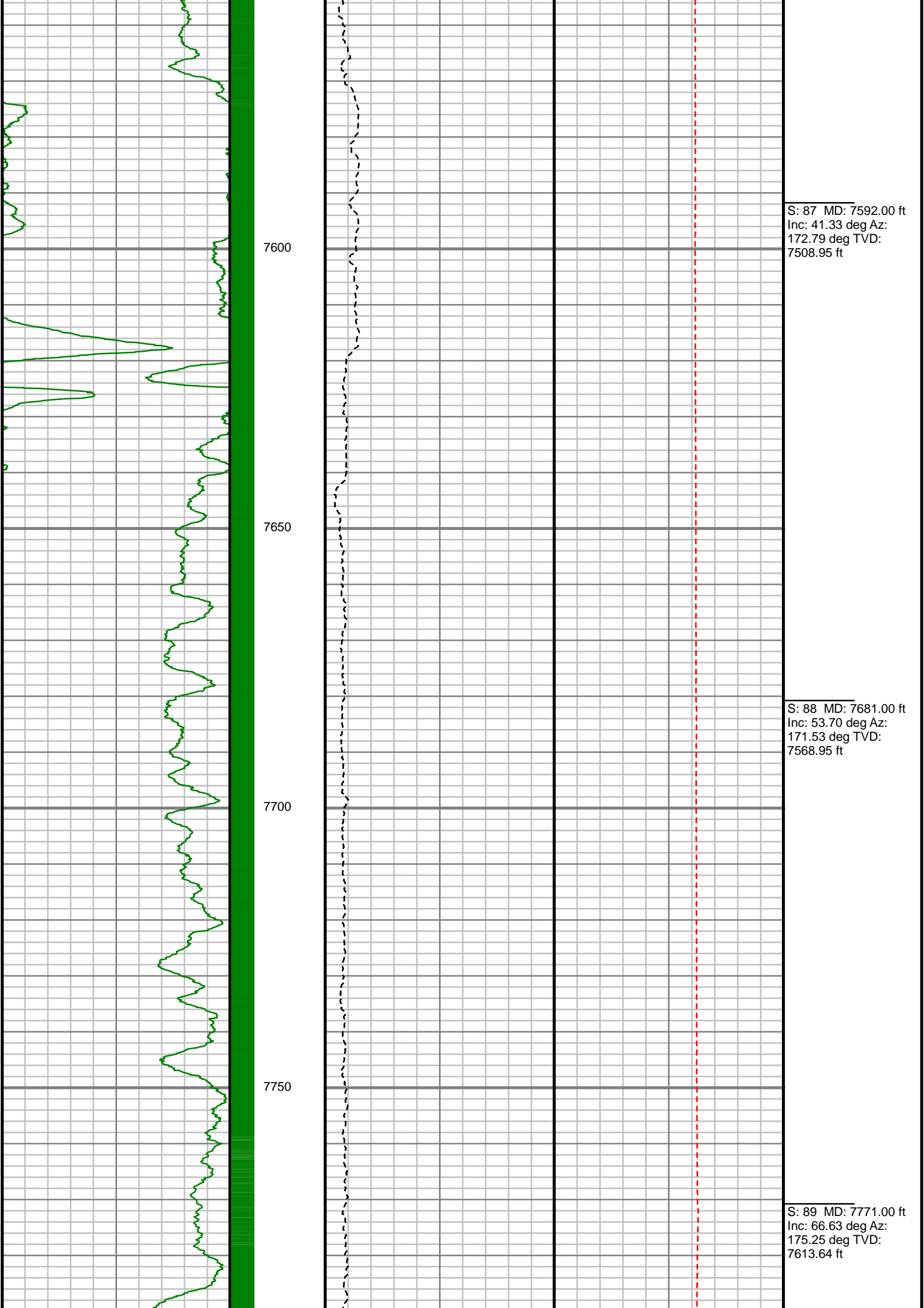


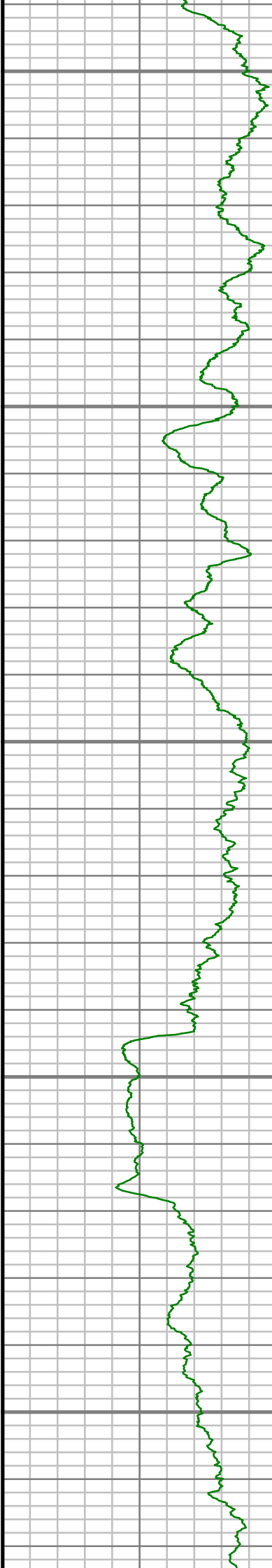


S: 82 MD: 7143.00 ft
Inc: 8.65 deg Az:
170.68 deg TVD:
7102.61 ft

S: 83 MD: 7233.00 ft
Inc: 12.95 deg Az:
169.30 deg TVD:
7190.99 ft







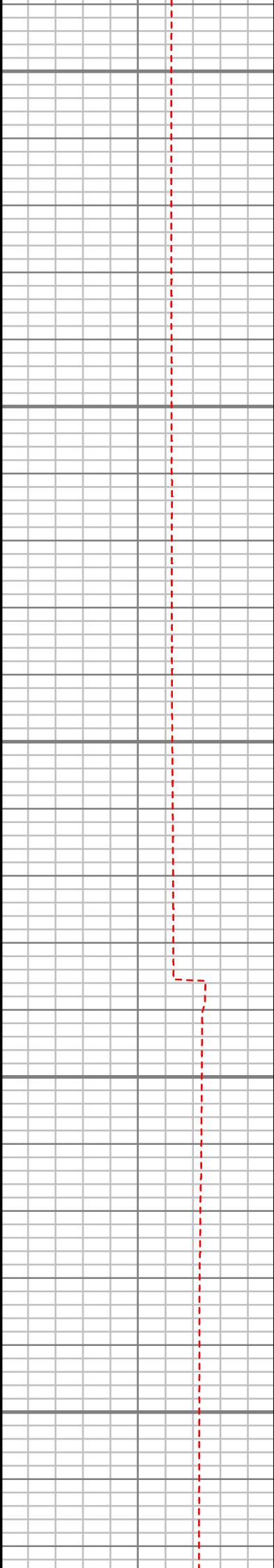
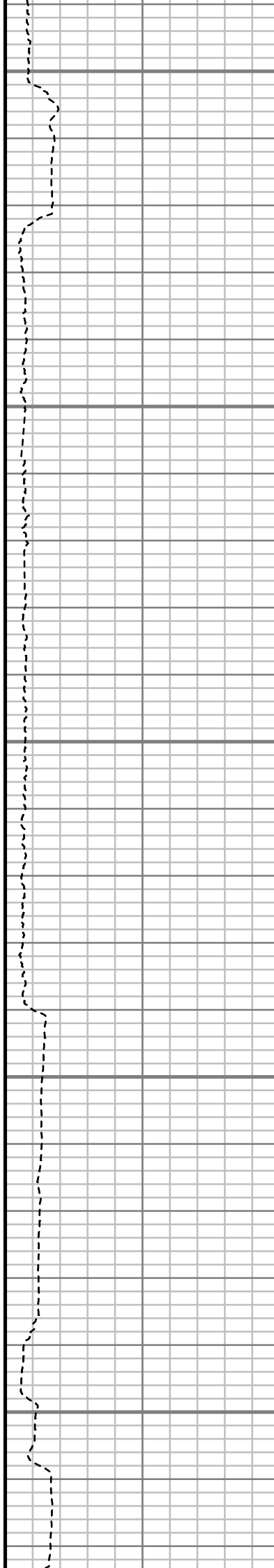
7800

7850

7900

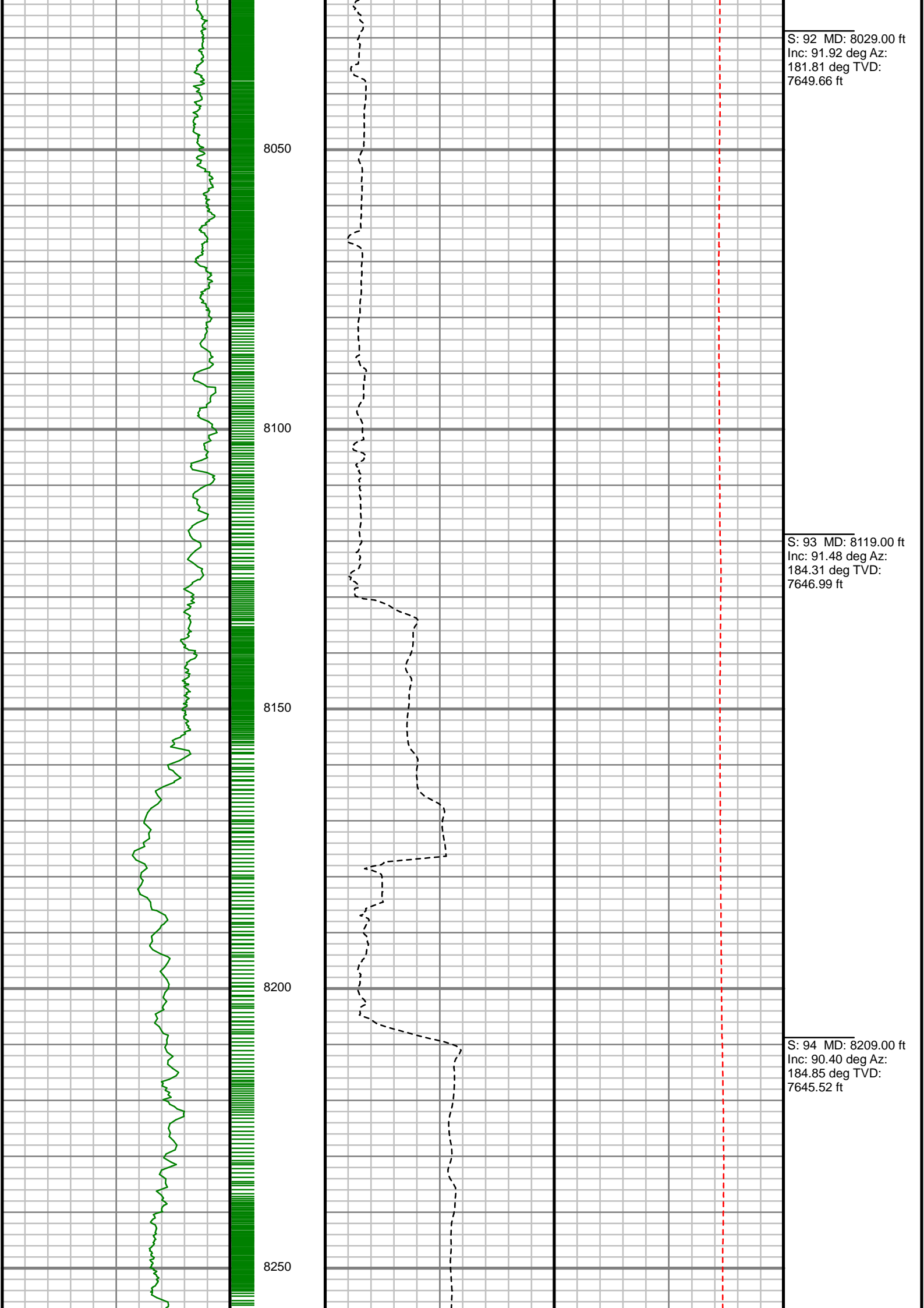
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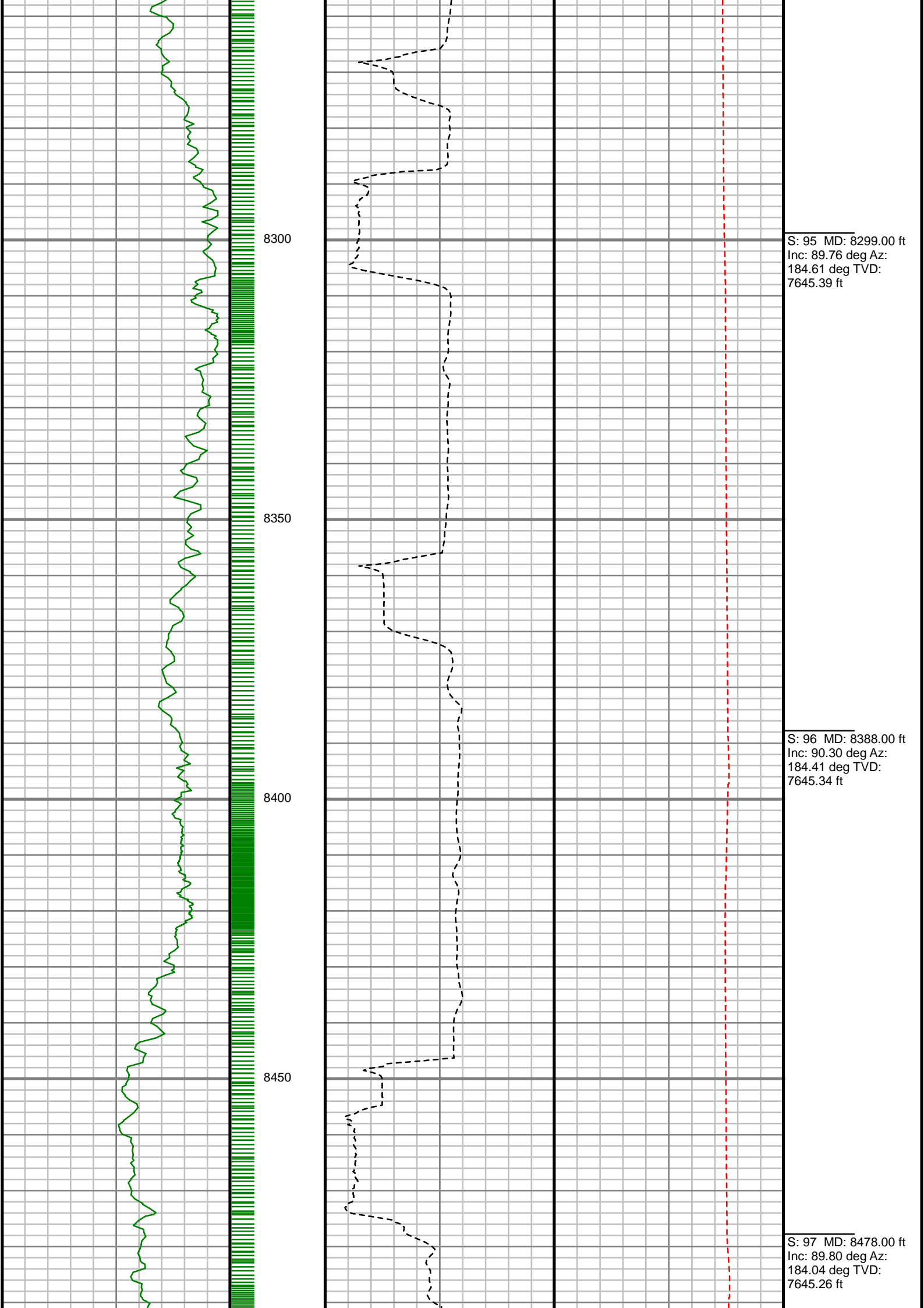
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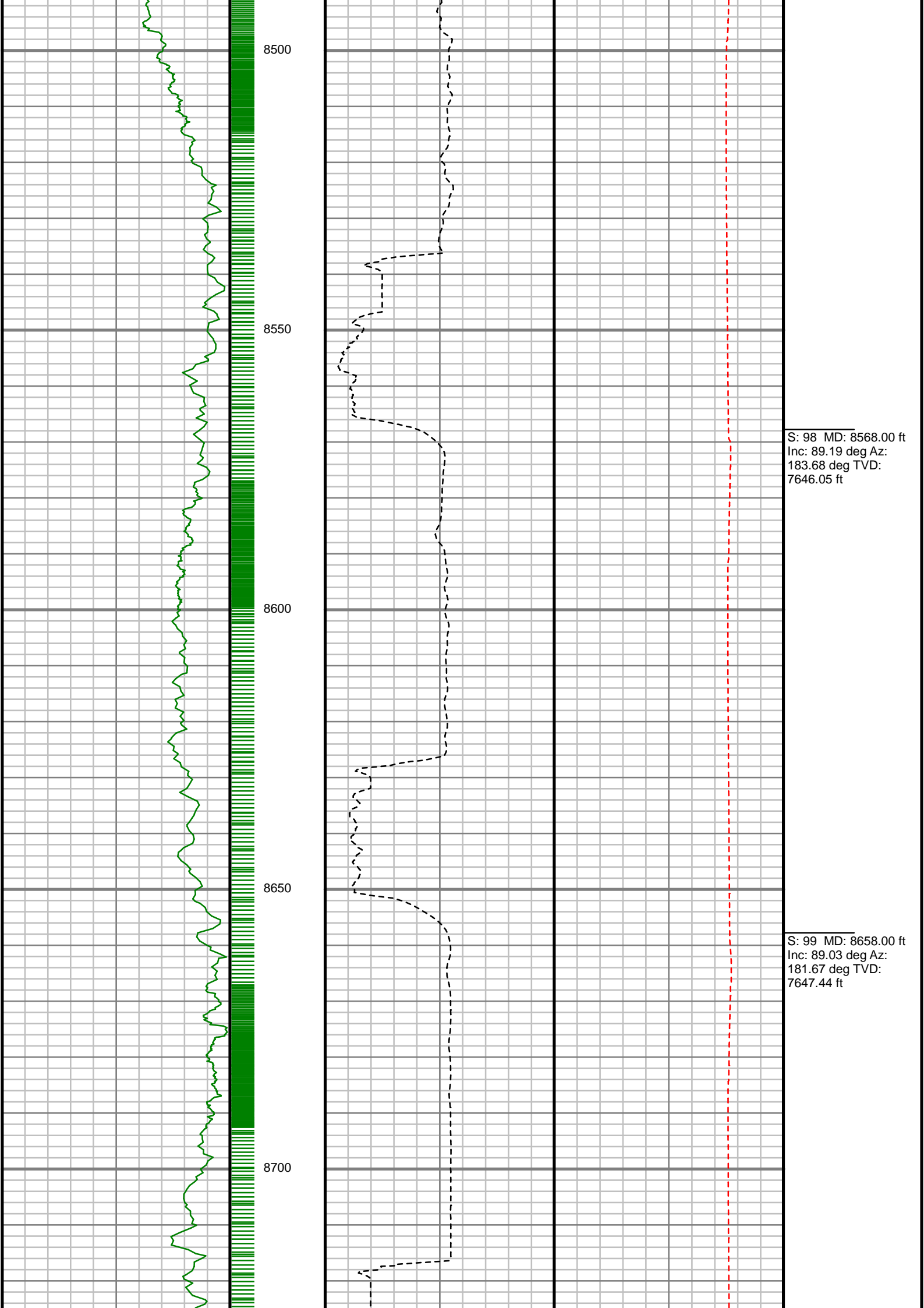


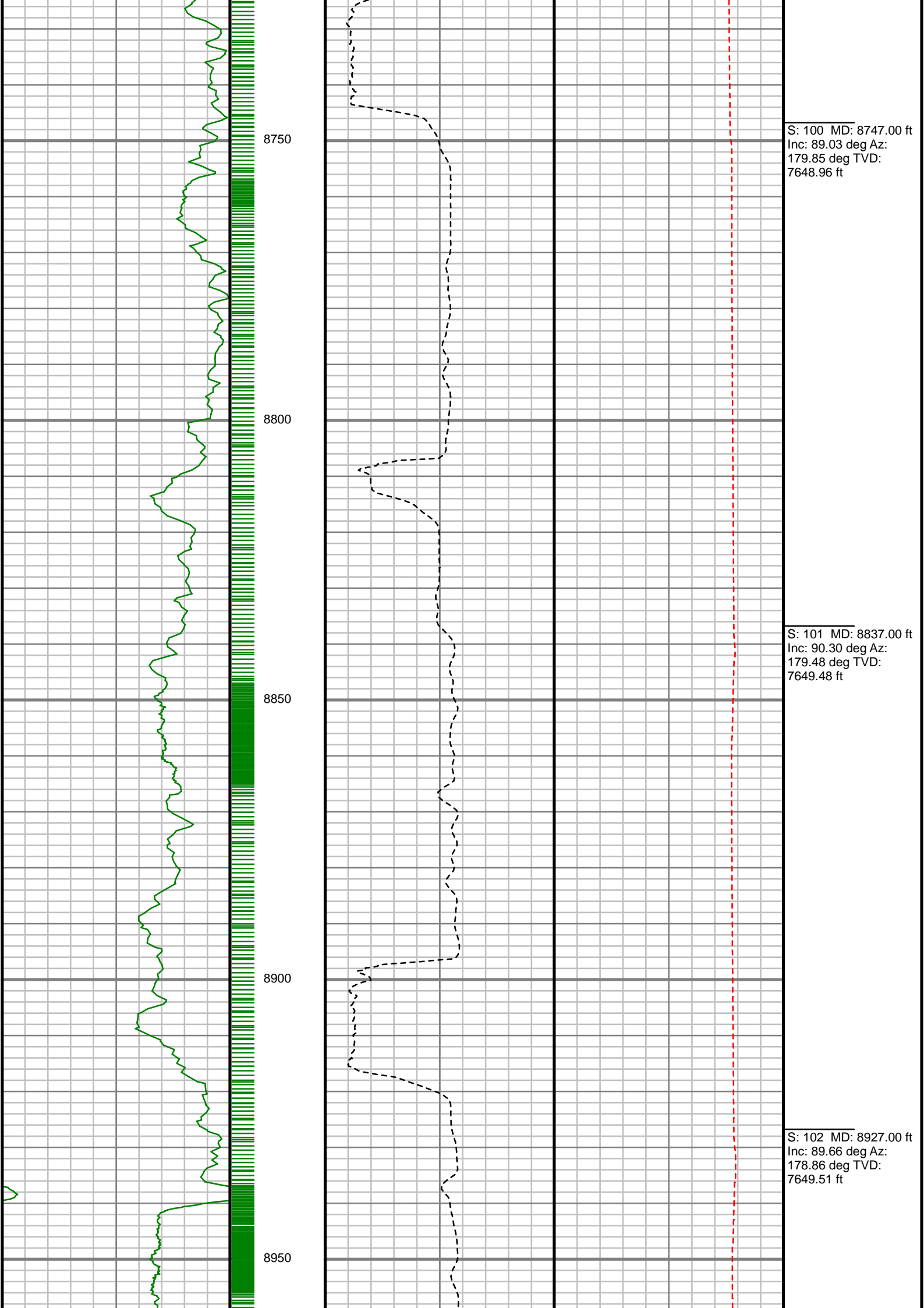
S: 90 MD: 7861.00 ft
Inc: 77.02 deg Az:
179.12 deg TVD:
7641.68 ft

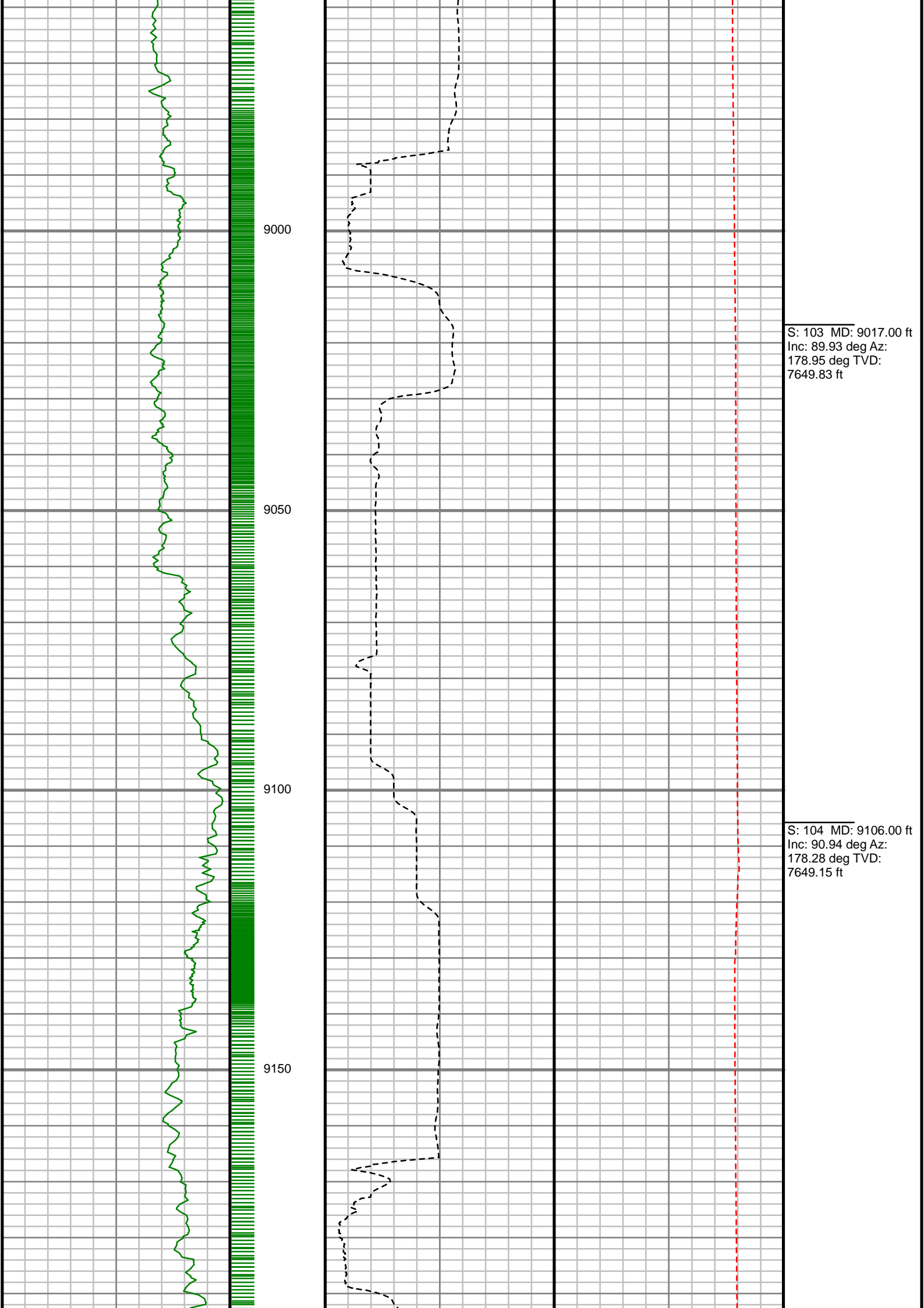
S: 91 MD: 7934.00 ft
Inc: 89.09 deg Az:
182.05 deg TVD:
7650.49 ft





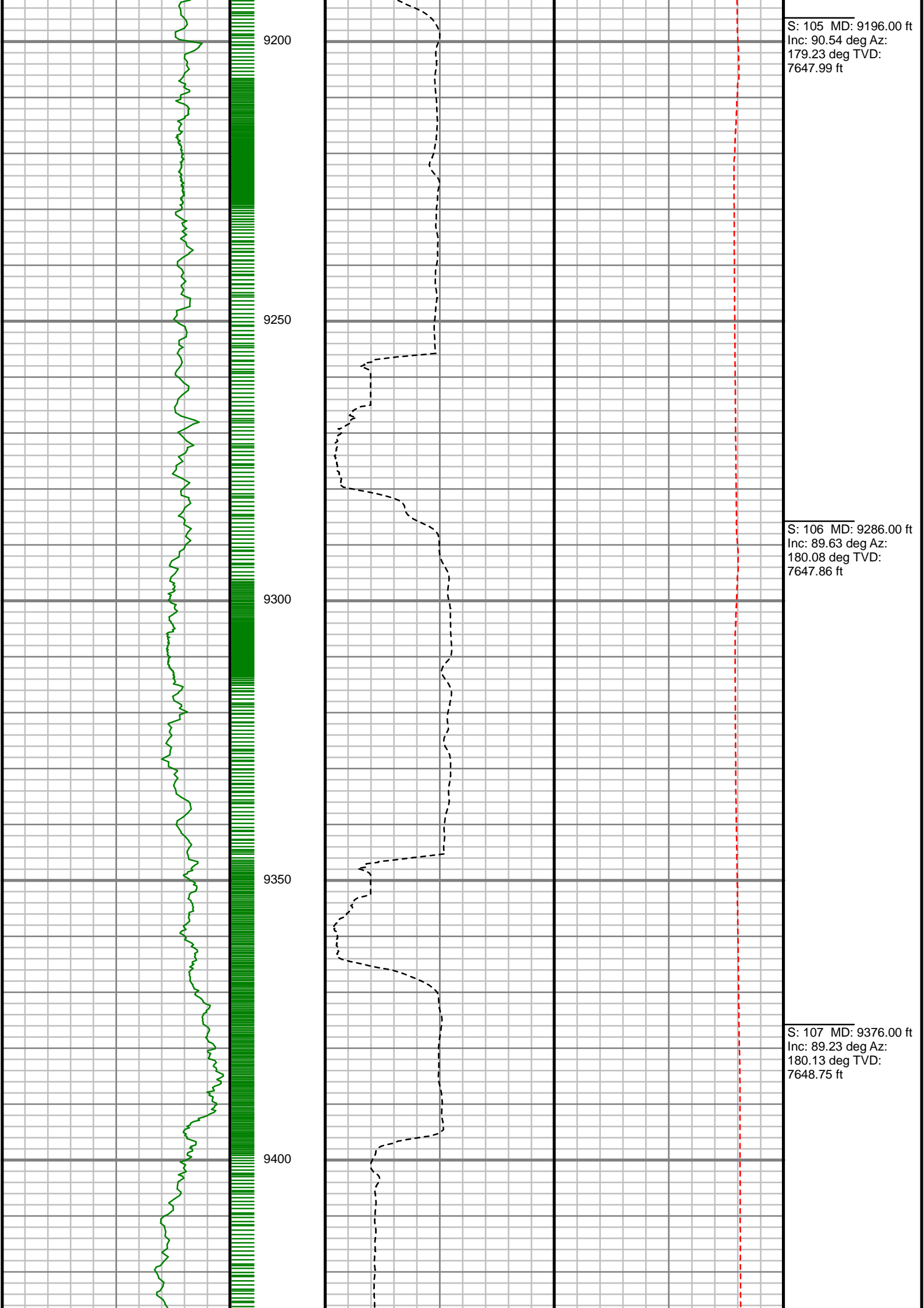


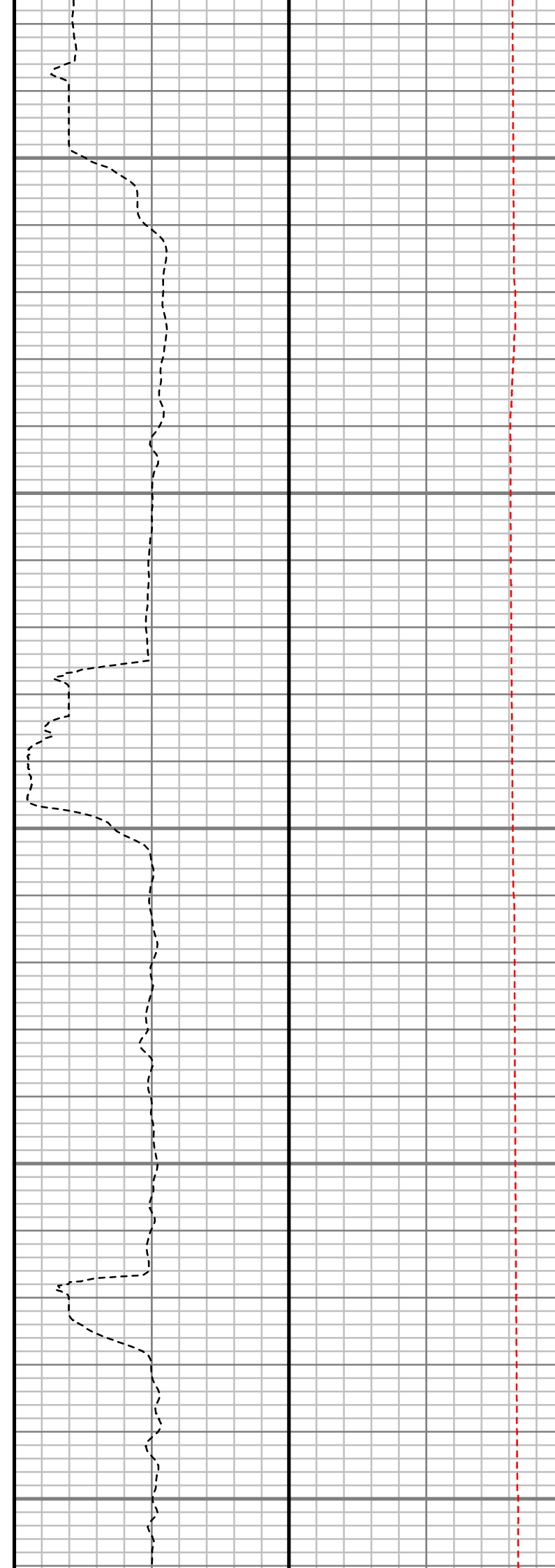
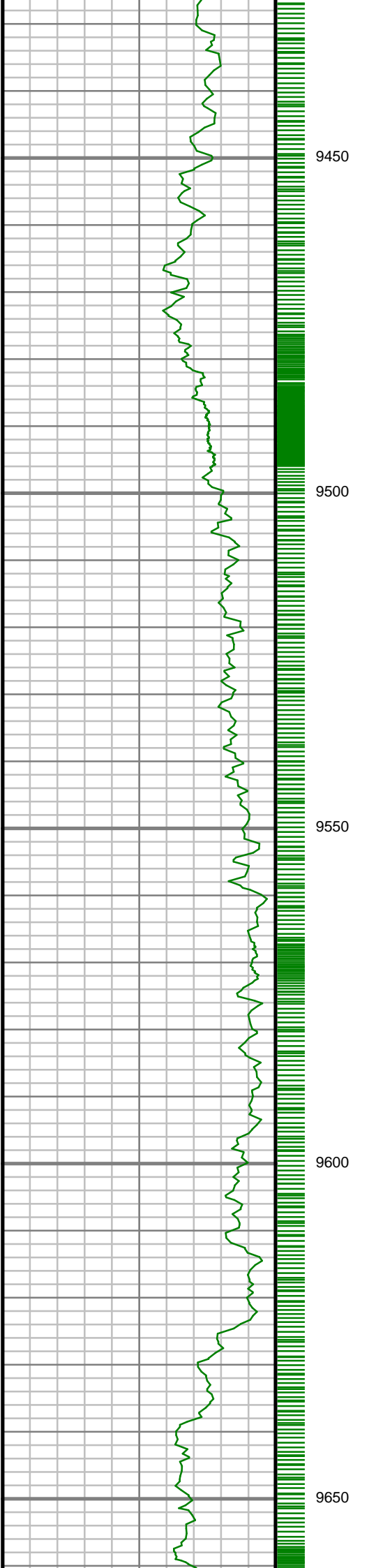




S: 103 MD: 9017.00 ft
Inc: 89.93 deg Az:
178.95 deg TVD:
7649.83 ft

S: 104 MD: 9106.00 ft
Inc: 90.94 deg Az:
178.28 deg TVD:
7649.15 ft

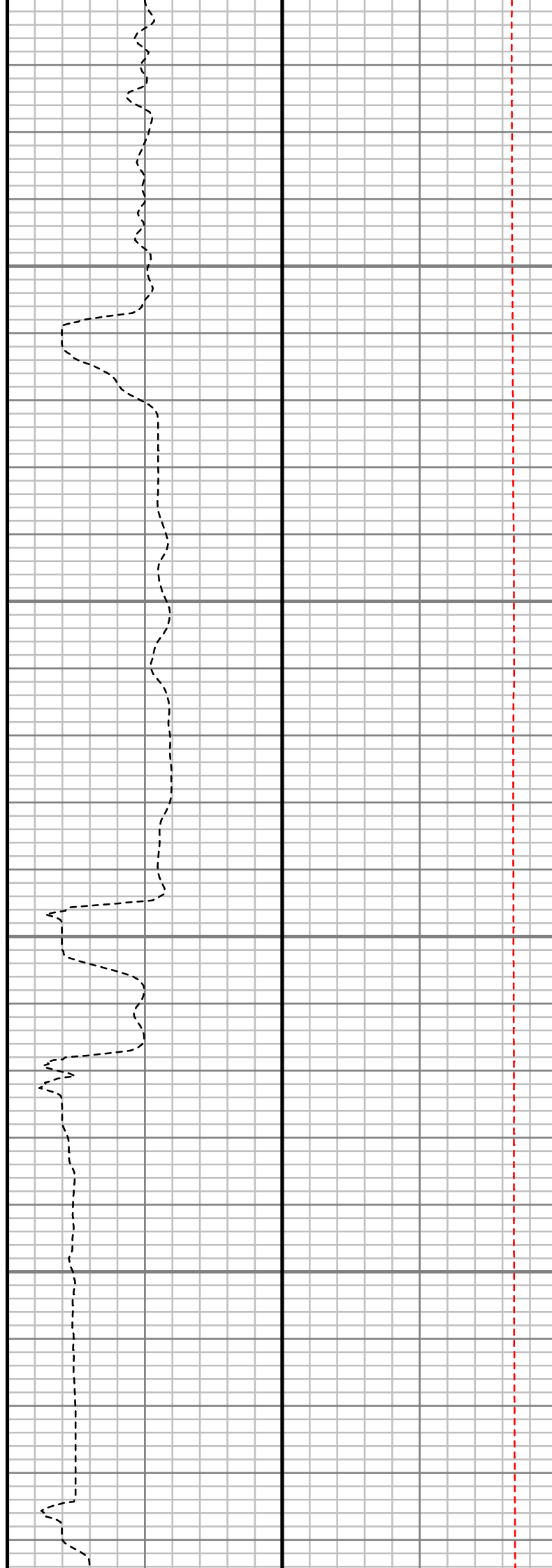
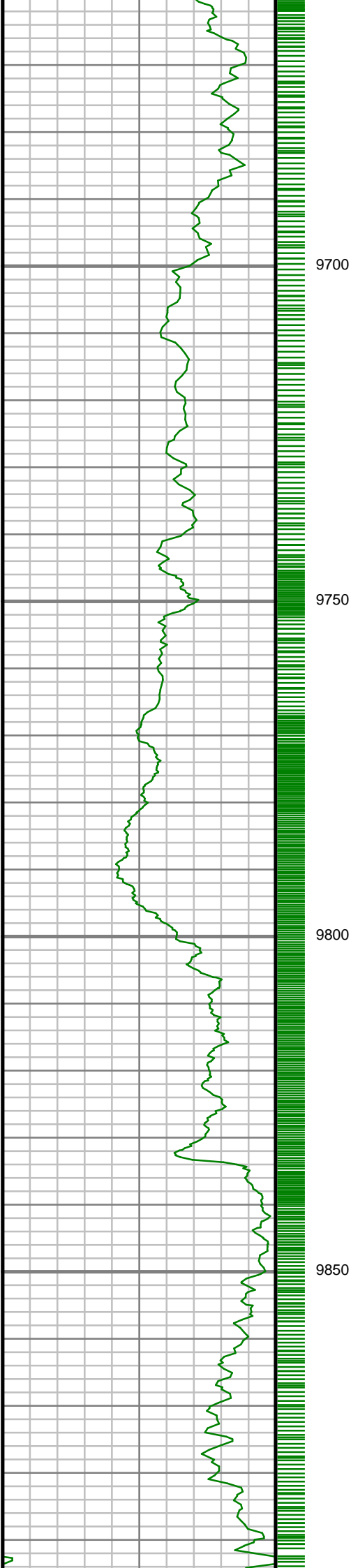




S: 108 MD: 9466.00 ft
Inc: 89.97 deg Az:
180.04 deg TVD:
7649.39 ft

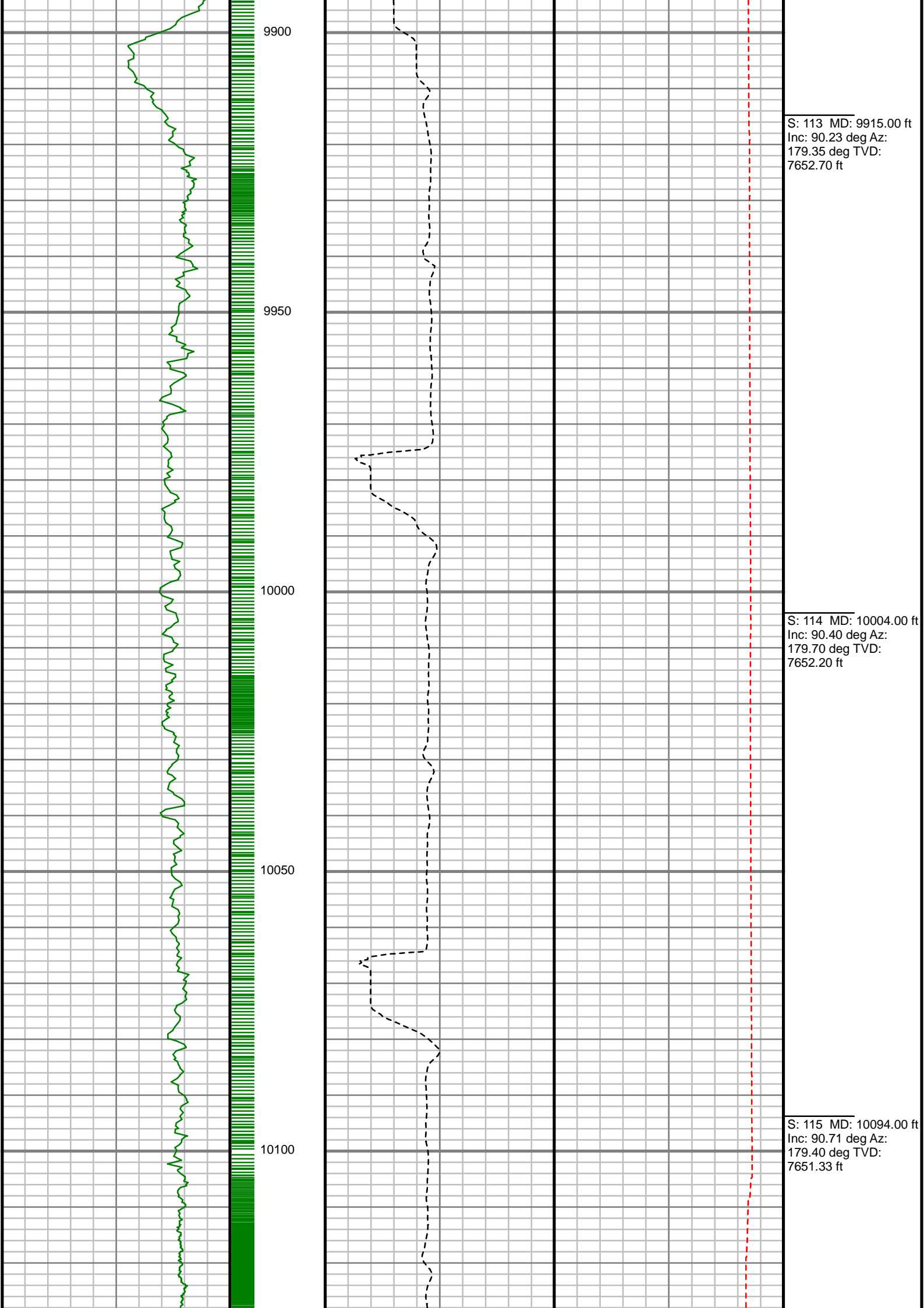
S: 109 MD: 9555.00 ft
Inc: 88.89 deg Az:
180.27 deg TVD:
7650.27 ft

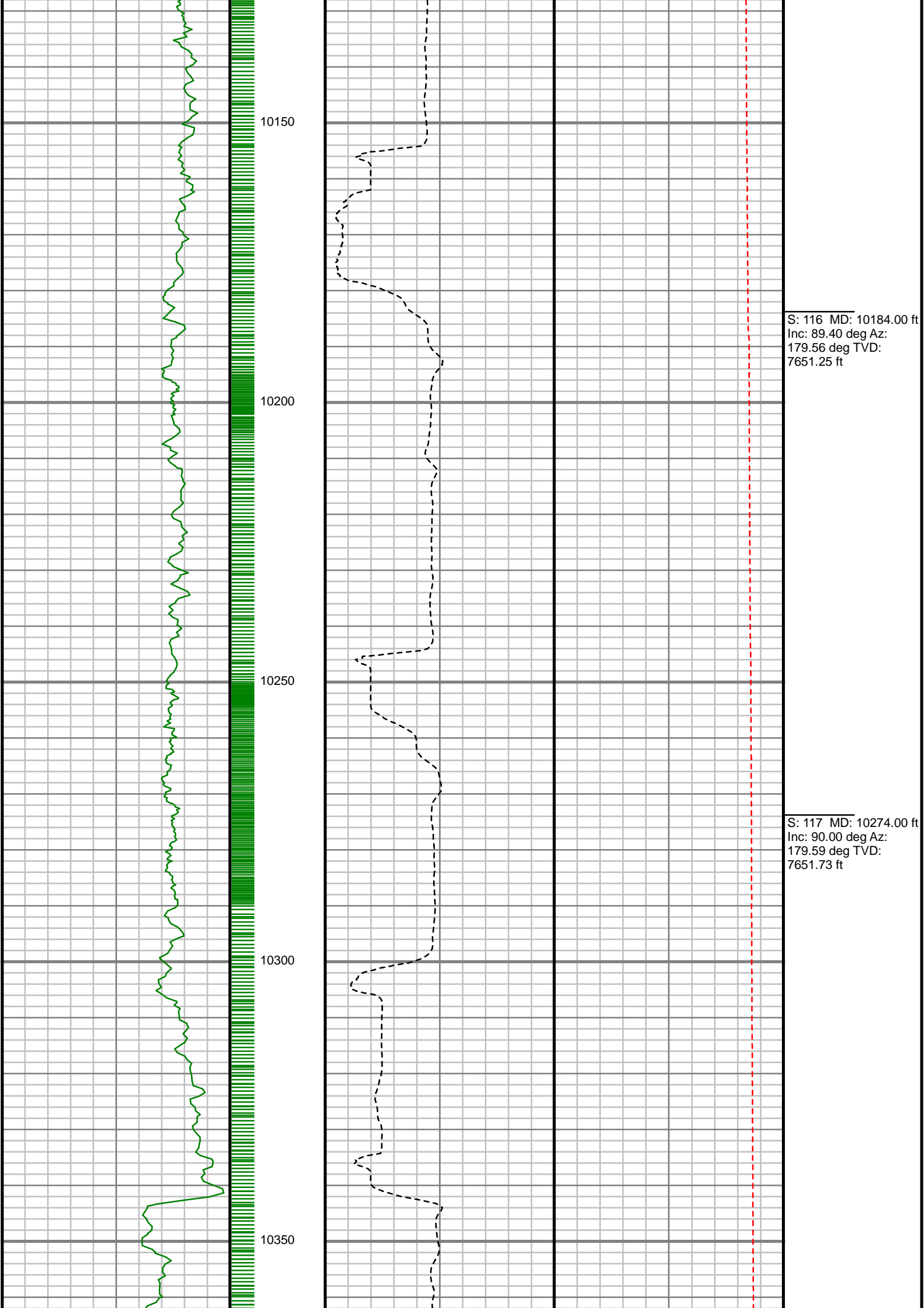
S: 110 MD: 9645.00 ft
Inc: 89.36 deg Az:
180.10 deg TVD:
7651.64 ft

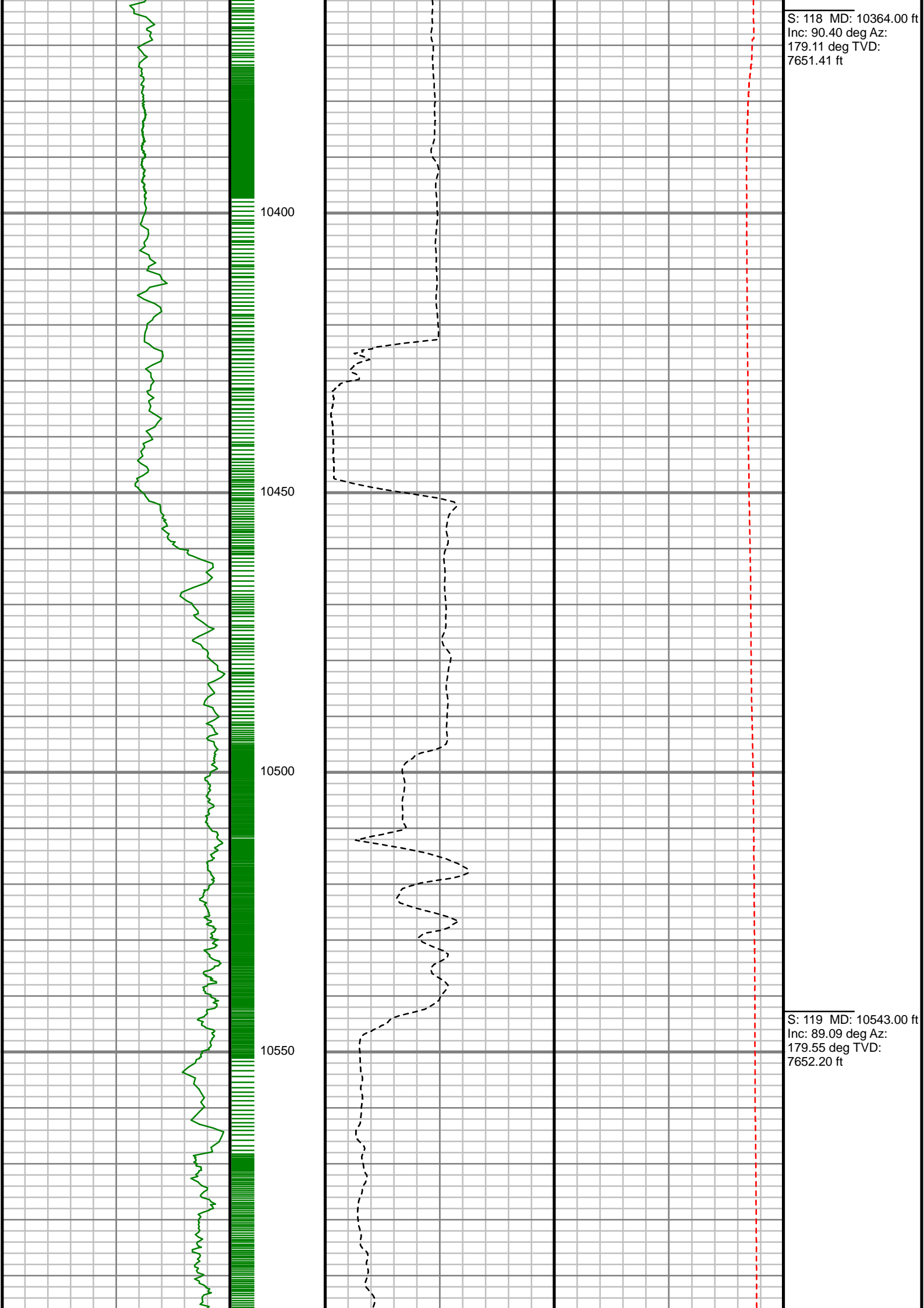


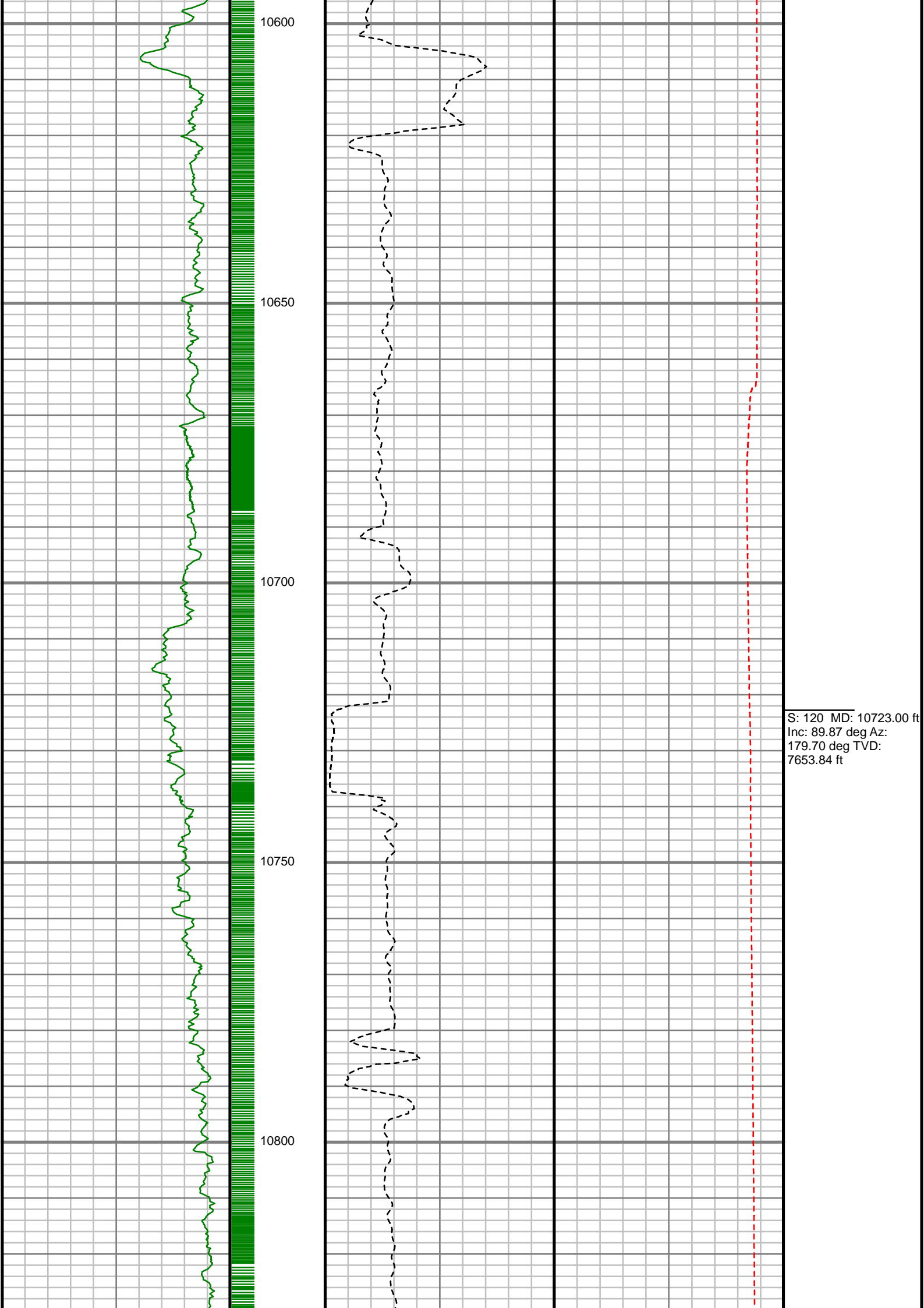
S: 111 MD: 9735.00 ft
Inc: 89.63 deg Az:
179.45 deg TVD:
7652.43 ft

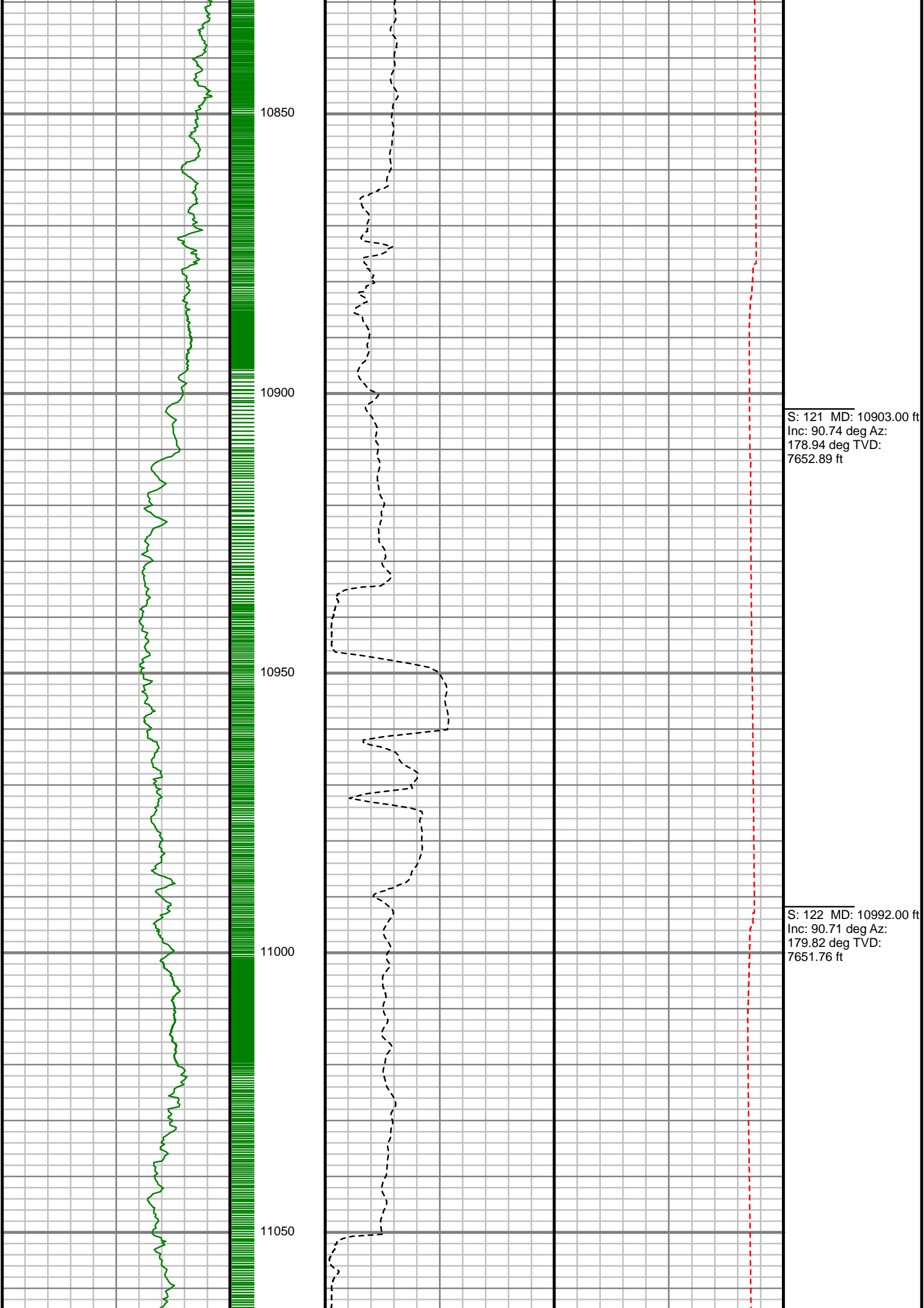
S: 112 MD: 9825.00 ft
Inc: 89.90 deg Az:
179.35 deg TVD:
7652.80 ft

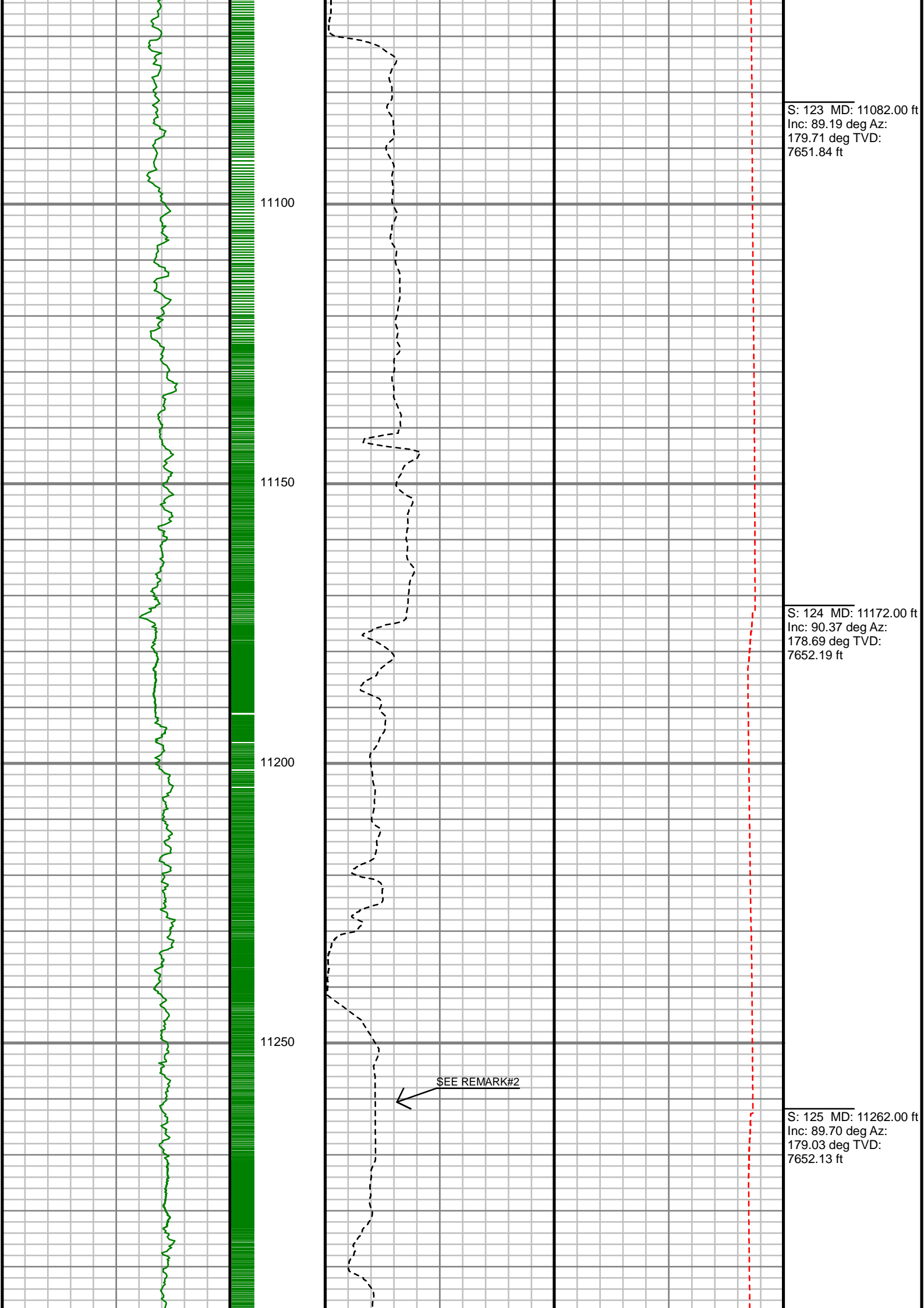










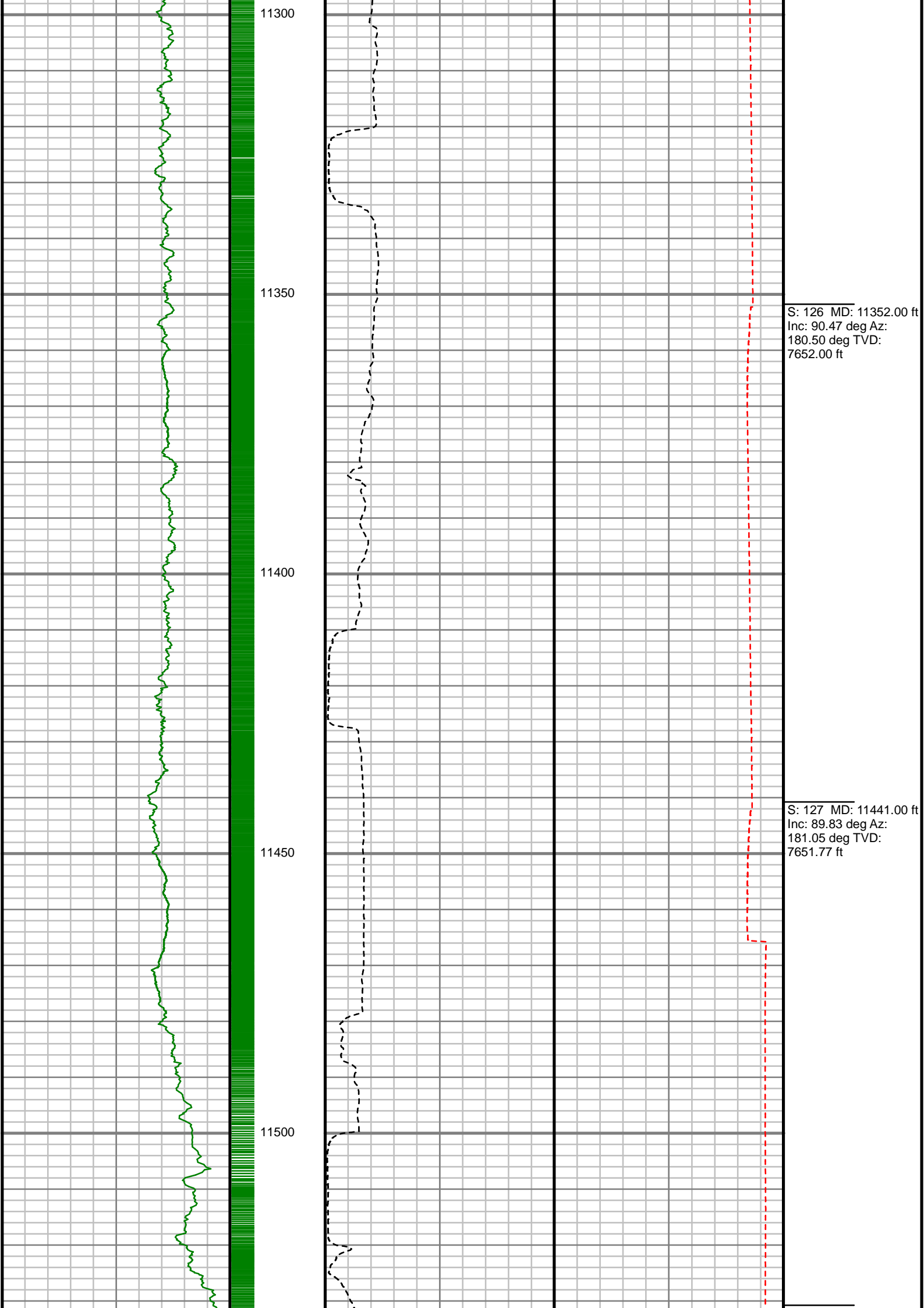


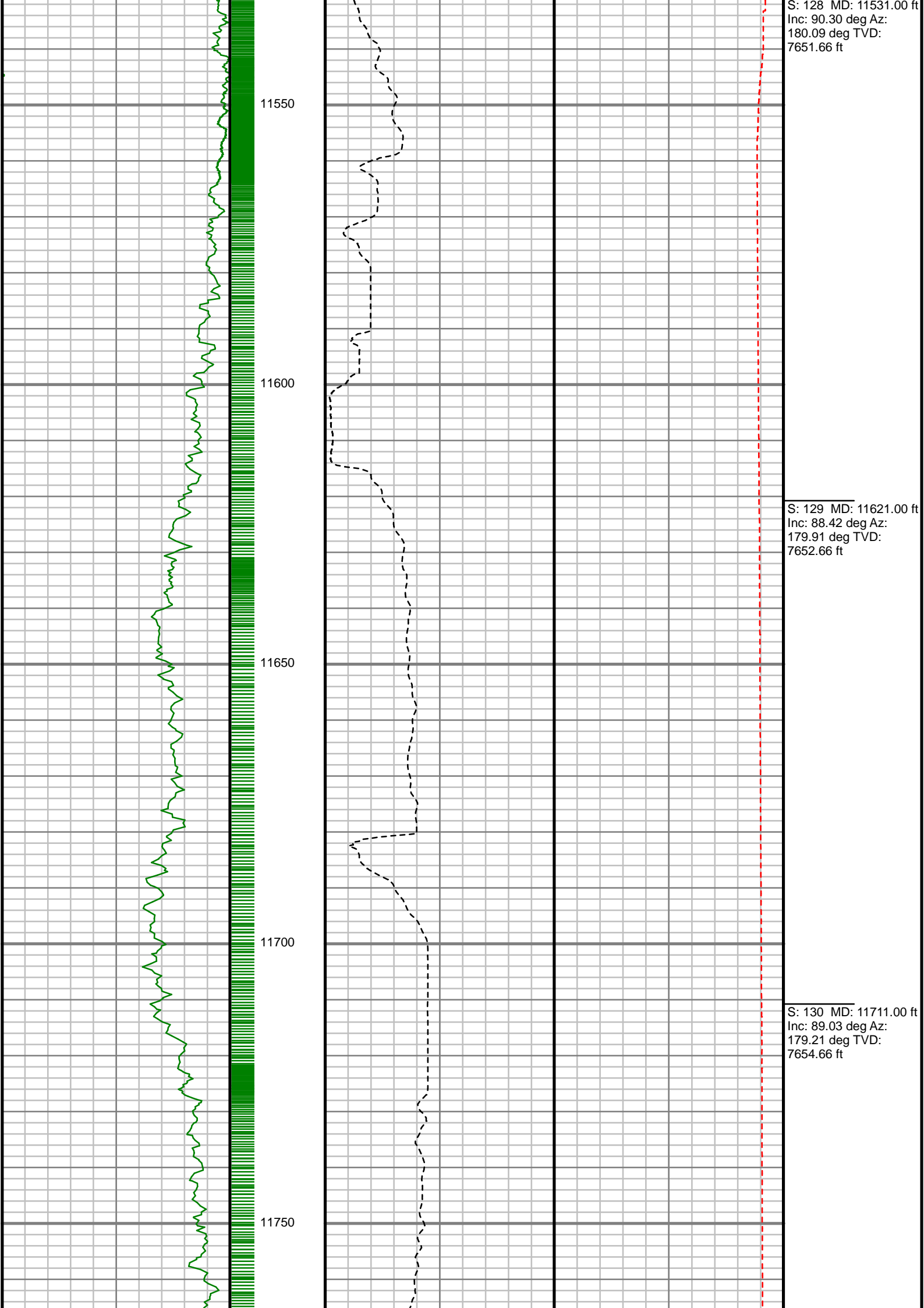
S: 123 MD: 11082.00 ft
Inc: 89.19 deg Az:
179.71 deg TVD:
7651.84 ft

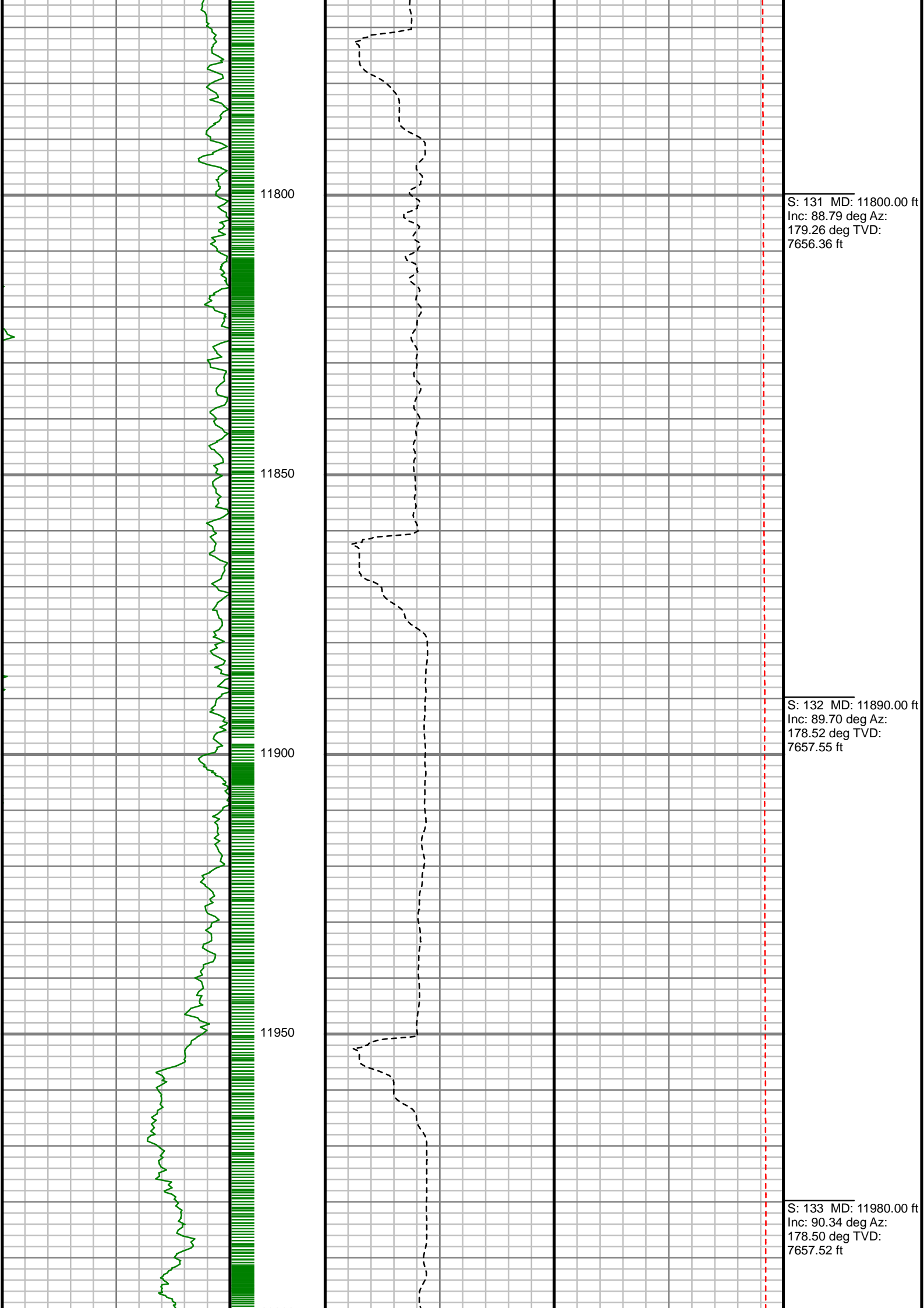
S: 124 MD: 11172.00 ft
Inc: 90.37 deg Az:
178.69 deg TVD:
7652.19 ft

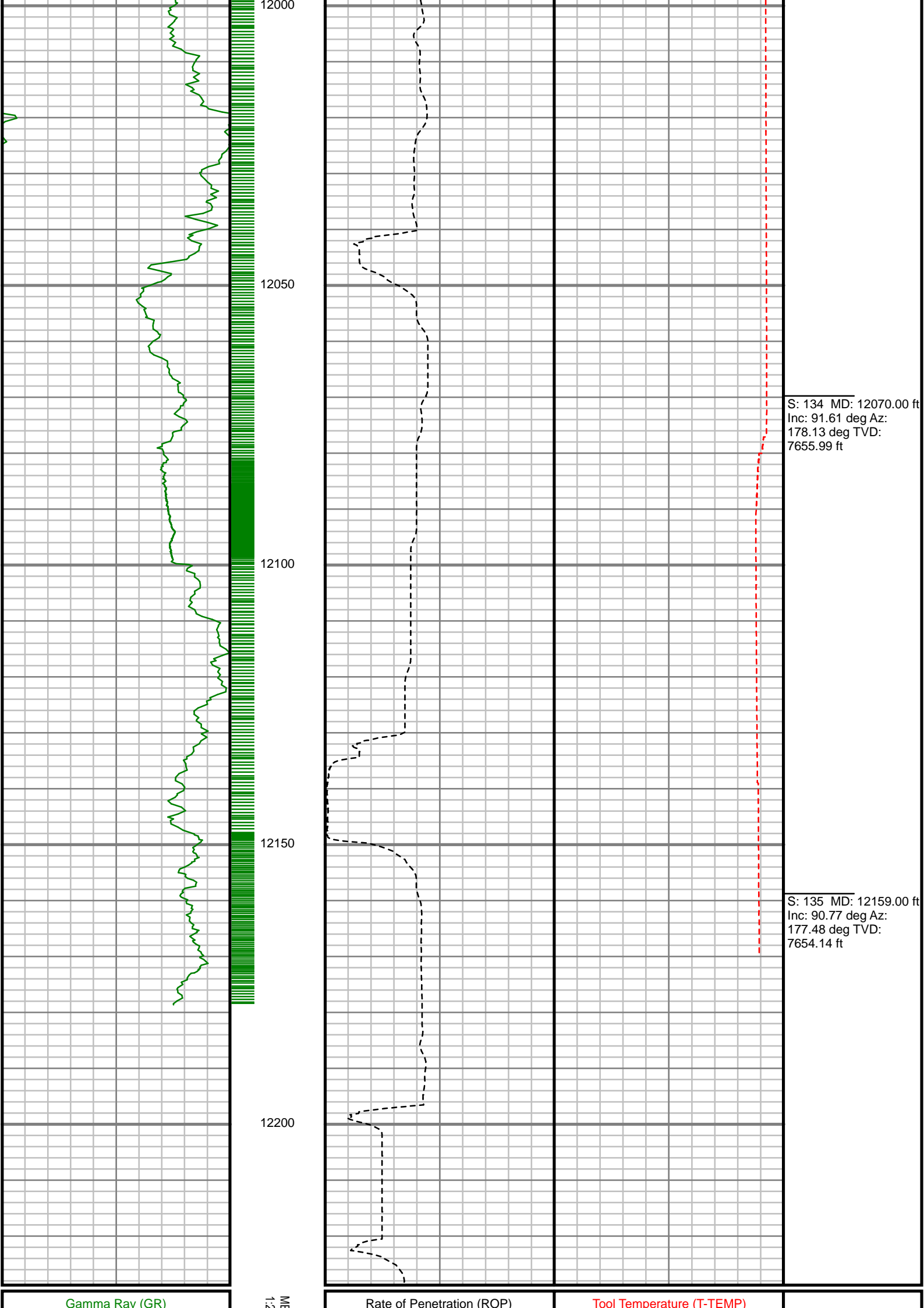
S: 125 MD: 11262.00 ft
Inc: 89.70 deg Az:
179.03 deg TVD:
7652.13 ft

SEE REMARK#2









Gamma Ray (GR)

MD
1.2

Rate of Penetration (ROP)

Tool Temperature (T-TEMP)

<div> <div>0</div> <div>Unit = aapi</div> <div>150</div> </div>		
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MEASURED DEPTH

240 (ft)

<div> <div>0</div> <div>Unit = ft/hr</div> <div>1000</div> </div>		
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<div> <div>0</div> <div>Unit = °F</div> <div>250</div> </div>		
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Comments

Well Location	BUFFALO & BADGER PAD
Well Name	BUFFALO 35N-15HZ
Survey Date	3/27/2015
Latitude	40°3'26.464"N
Longitude	104°59'41.834"W
Btotal	52368, 52598, 52638, 52683 nT
Dip	66.51, 66.54 deg
Magnetic Declination	8.61, 8.62, 8.64 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), 180.00Azim (deg)
Operator(s)	C. COLLINS, S. NEJAD

Well Notes
SURVEYS FROM 0 FT. TO 1289 FT. WERE ACQUIRED BY CATHEDRAL MWD.
SURVEYS FROM 1392 FT. TO 12159 FT. WERE ACQUIRED BY SCIENTIFIC DRILLING INTERNATIONAL MWD.

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	Invalid
14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	14.00
66.00	0.10	159.40	66.00	0.04	-0.04	0.02	0.19	52.00
156.00	0.30	264.40	156.00	0.14	-0.14	-0.19	0.38	90.00
255.00	0.20	221.90	255.00	0.29	-0.29	-0.56	0.21	99.00
336.00	0.20	124.50	336.00	0.48	-0.48	-0.54	0.37	81.00
416.00	0.10	6.80	416.00	0.49	-0.49	-0.42	0.33	80.00
496.00	0.60	32.10	496.00	0.06	-0.06	-0.19	0.64	80.00
576.00	0.30	358.80	575.99	-0.50	0.50	0.03	0.48	80.00
656.00	0.30	88.20	655.99	-0.72	0.72	0.24	0.53	80.00
736.00	0.20	22.10	735.99	-0.85	0.85	0.50	0.36	80.00
816.00	0.70	37.40	815.99	-1.37	1.37	0.85	0.64	80.00
896.00	0.20	98.50	895.99	-1.74	1.74	1.28	0.79	80.00
976.00	0.30	27.50	975.99	-1.90	1.90	1.52	0.38	80.00
1056.00	0.20	79.90	1055.99	-2.11	2.11	1.75	0.30	80.00
1136.00	0.10	94.60	1135.99	-2.13	2.13	1.96	0.13	80.00
1216.00	0.40	298.10	1215.99	-2.26	2.26	1.78	0.62	80.00
1289.00	0.30	304.50	1288.98	-2.49	2.49	1.40	0.15	73.00
1392.00	0.54	204.37	1391.98	-2.19	2.19	0.97	0.64	103.00

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft	Course Length ft
1487.00	3.08	69.03	1486.94	-2.70	2.70	3.17	3.67	95.00
1576.00	5.65	50.39	1575.68	-6.35	6.35	8.77	3.26	89.00
1666.00	8.45	42.46	1664.99	-14.05	14.05	16.65	3.29	90.00
1756.00	9.98	38.70	1753.83	-25.01	25.01	25.99	1.82	90.00
1846.00	10.57	29.09	1842.39	-38.31	38.31	34.88	2.01	90.00
1935.00	10.47	23.55	1929.90	-52.86	52.86	42.08	1.14	89.00
2025.00	10.54	28.22	2018.39	-67.62	67.62	49.24	0.95	90.00
2115.00	10.43	29.34	2106.89	-81.97	81.97	57.13	0.26	90.00
2205.00	10.04	25.85	2195.46	-96.13	96.13	64.53	0.81	90.00
2294.00	10.40	36.78	2283.05	-109.54	109.54	72.72	2.21	89.00
2384.00	10.44	37.95	2371.57	-122.48	122.48	82.60	0.24	90.00
2474.00	10.36	37.43	2460.09	-135.33	135.33	92.54	0.13	90.00
2564.00	10.01	34.75	2548.67	-148.19	148.19	101.92	0.66	90.00
2653.00	9.52	32.86	2636.38	-160.73	160.73	110.32	0.66	89.00
2743.00	10.29	31.44	2725.04	-173.84	173.84	118.55	0.89	90.00
2833.00	9.39	31.54	2813.72	-186.95	186.95	126.59	1.00	90.00
2923.00	8.56	23.86	2902.62	-199.34	199.34	133.14	1.62	90.00
3012.00	8.51	41.10	2990.65	-210.36	210.36	140.14	2.86	89.00

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft	Course Length ft
3102.00	10.43	58.10	3079.43	-219.68	219.68	151.44	3.75	90.00
3192.00	9.30	60.54	3168.10	-227.56	227.56	164.68	1.33	90.00
3282.00	11.00	57.92	3256.69	-235.70	235.70	178.29	1.96	90.00
3371.00	10.84	53.87	3344.08	-245.14	245.14	192.25	0.88	89.00
3461.00	9.68	49.04	3432.64	-255.09	255.09	204.80	1.60	90.00
3551.00	9.89	42.72	3521.34	-265.73	265.73	215.75	1.22	90.00
3641.00	9.60	35.06	3610.04	-277.55	277.55	225.31	1.47	90.00
3730.00	11.72	30.43	3697.50	-291.42	291.42	234.15	2.57	89.00
3820.00	11.27	26.39	3785.70	-307.18	307.18	242.69	1.03	90.00
3910.00	9.76	19.52	3874.19	-322.25	322.25	249.15	2.18	90.00
4000.00	8.53	16.76	3963.04	-335.83	335.83	253.62	1.44	90.00
4089.00	6.88	18.29	4051.24	-347.21	347.21	257.20	1.88	89.00
4179.00	5.72	10.96	4140.69	-356.73	356.73	259.74	1.56	90.00
4269.00	4.78	7.24	4230.31	-364.85	364.85	261.07	1.12	90.00
4359.00	3.85	355.16	4320.06	-371.58	371.58	261.28	1.43	90.00
4448.00	2.10	334.08	4408.94	-376.03	376.03	260.32	2.29	89.00
4538.00	2.07	307.34	4498.88	-378.49	378.49	258.31	1.07	90.00
4628.00	2.11	316.45	4588.82	-380.68	380.68	255.88	0.37	90.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
4718.00	1.45	248.81	4678.79	-381.47	381.47	253.68	2.28	90.00
4808.00	1.89	252.60	4768.75	-380.61	380.61	251.20	0.51	90.00
4897.00	2.29	261.30	4857.69	-379.90	379.90	248.04	0.58	89.00
4987.00	2.17	259.05	4947.62	-379.31	379.31	244.59	0.17	90.00
5077.00	2.29	263.95	5037.55	-378.80	378.80	241.14	0.25	90.00
5167.00	2.74	261.31	5127.47	-378.28	378.28	237.23	0.52	90.00
5257.00	3.19	266.46	5217.35	-377.80	377.80	232.60	0.58	90.00
5347.00	1.88	244.98	5307.26	-377.02	377.02	228.77	1.78	90.00
5437.00	1.71	184.19	5397.22	-375.06	375.06	227.33	2.02	90.00
5526.00	1.48	182.21	5486.19	-372.59	372.59	227.19	0.27	89.00
5616.00	1.11	194.01	5576.16	-370.59	370.59	226.94	0.50	90.00
5706.00	0.60	219.20	5666.15	-369.38	369.38	226.43	0.69	90.00
5796.00	0.78	250.02	5756.15	-368.81	368.81	225.56	0.45	90.00
5886.00	0.76	236.81	5846.14	-368.27	368.27	224.48	0.20	90.00
5975.00	0.76	276.89	5935.13	-368.02	368.02	223.40	0.58	89.00
6065.00	0.71	298.82	6025.13	-368.36	368.36	222.32	0.31	90.00
6155.00	1.16	281.59	6115.11	-368.81	368.81	220.94	0.58	90.00
6245.00	1.74	293.54	6205.08	-369.54	369.54	218.80	0.73	90.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
6335.00	0.75	186.88	6295.07	-369.51	369.51	217.47	2.32	90.00
6424.00	0.93	190.12	6384.06	-368.22	368.22	217.28	0.21	89.00
6514.00	0.51	251.29	6474.05	-367.37	367.37	216.77	0.91	90.00
6604.00	0.36	265.21	6564.05	-367.22	367.22	216.10	0.20	90.00
6694.00	0.26	134.63	6654.05	-367.05	367.05	215.96	0.63	90.00
6784.00	0.24	140.44	6744.05	-366.76	366.76	216.23	0.04	90.00
6873.00	0.51	64.18	6833.05	-366.79	366.79	216.71	0.58	89.00
6963.00	0.54	46.68	6923.04	-367.26	367.26	217.38	0.18	90.00
7053.00	1.89	200.06	7013.03	-366.16	366.16	217.18	2.64	90.00
7143.00	8.65	170.68	7102.61	-358.08	358.08	217.77	7.85	90.00
7233.00	12.95	169.30	7190.99	-341.48	341.48	220.74	4.79	90.00
7322.00	20.24	169.73	7276.23	-316.50	316.50	225.34	8.19	89.00
7412.00	25.90	170.65	7359.00	-281.76	281.76	231.31	6.31	90.00
7502.00	33.03	171.22	7437.31	-238.07	238.07	238.26	7.93	90.00
7592.00	41.33	172.79	7508.95	-184.25	184.25	245.75	9.28	90.00
7681.00	53.70	171.53	7568.95	-119.37	119.37	254.75	13.94	89.00
7771.00	66.63	175.25	7613.64	-41.98	41.98	263.56	14.81	90.00
7861.00	77.02	179.12	7641.68	43.29	-43.29	267.67	12.24	90.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
7934.00	89.09	182.05	7650.49	115.61	-115.61	266.91	17.01	73.00
8029.00	91.92	181.81	7649.66	210.54	-210.54	263.71	2.98	95.00
8119.00	91.48	184.31	7646.99	300.37	-300.37	258.91	2.82	90.00
8209.00	90.40	184.85	7645.52	390.07	-390.07	251.73	1.34	90.00
8299.00	89.76	184.61	7645.39	479.76	-479.76	244.30	0.76	90.00
8388.00	90.30	184.41	7645.34	568.48	-568.48	237.31	0.65	89.00
8478.00	89.80	184.04	7645.26	658.24	-658.24	230.68	0.69	90.00
8568.00	89.19	183.68	7646.05	748.03	-748.03	224.62	0.78	90.00
8658.00	89.03	181.67	7647.44	837.92	-837.92	220.41	2.24	90.00
8747.00	89.03	179.85	7648.96	926.89	-926.89	219.23	2.04	89.00
8837.00	90.30	179.48	7649.48	1016.89	-1016.89	219.75	1.48	90.00
8927.00	89.66	178.86	7649.51	1106.88	-1106.88	221.05	0.99	90.00
9017.00	89.93	178.95	7649.83	1196.86	-1196.86	222.77	0.31	90.00
9106.00	90.94	178.28	7649.15	1285.83	-1285.83	224.92	1.36	89.00
9196.00	90.54	179.23	7647.99	1375.80	-1375.80	226.88	1.14	90.00
9286.00	89.63	180.08	7647.86	1465.80	-1465.80	227.42	1.38	90.00
9376.00	89.23	180.13	7648.75	1555.79	-1555.79	227.25	0.45	90.00
9466.00	89.97	180.04	7649.39	1645.79	-1645.79	227.11	0.83	90.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
9555.00	88.89	180.27	7650.27	1734.78	-1734.78	226.88	1.23	89.00
9645.00	89.36	180.10	7651.64	1824.77	-1824.77	226.59	0.55	90.00
9735.00	89.63	179.45	7652.43	1914.77	-1914.77	226.94	0.78	90.00
9825.00	89.90	179.35	7652.80	2004.76	-2004.76	227.88	0.32	90.00
9915.00	90.23	179.35	7652.70	2094.75	-2094.75	228.90	0.37	90.00
10004.00	90.40	179.70	7652.20	2183.75	-2183.75	229.64	0.43	89.00
10094.00	90.71	179.40	7651.33	2273.74	-2273.74	230.36	0.47	90.00
10184.00	89.40	179.56	7651.25	2363.74	-2363.74	231.17	1.47	90.00
10274.00	90.00	179.59	7651.73	2453.73	-2453.73	231.84	0.67	90.00
10364.00	90.40	179.11	7651.41	2543.73	-2543.73	232.85	0.69	90.00
10543.00	89.09	179.55	7652.20	2722.71	-2722.71	234.94	0.77	179.00
10723.00	89.87	179.70	7653.84	2902.70	-2902.70	236.12	0.44	180.00
10903.00	90.74	178.94	7652.89	3082.68	-3082.68	238.26	0.64	180.00
10992.00	90.71	179.82	7651.76	3171.66	-3171.66	239.23	0.99	89.00
11082.00	89.19	179.71	7651.84	3261.66	-3261.66	239.60	1.69	90.00
11172.00	90.37	178.69	7652.19	3351.65	-3351.65	240.86	1.73	90.00
11262.00	89.70	179.03	7652.13	3441.63	-3441.63	242.65	0.83	90.00
11352.00	90.47	180.50	7652.00	3531.63	-3531.63	243.02	1.85	90.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
11441.00	89.83	181.05	7651.77	3620.62	-3620.62	241.82	0.94	89.00
11531.00	90.30	180.09	7651.66	3710.61	-3710.61	240.92	1.18	90.00
11621.00	88.42	179.91	7652.66	3800.60	-3800.60	240.92	2.10	90.00
11711.00	89.03	179.21	7654.66	3890.58	-3890.58	241.62	1.03	90.00
11800.00	88.79	179.26	7656.36	3979.55	-3979.55	242.81	0.27	89.00
11890.00	89.70	178.52	7657.55	4069.52	-4069.52	244.55	1.30	90.00
11980.00	90.34	178.50	7657.52	4159.49	-4159.49	246.89	0.71	90.00
12070.00	91.61	178.13	7655.99	4249.44	-4249.44	249.54	1.48	90.00
12159.00	90.77	177.48	7654.14	4338.35	-4338.35	252.94	1.19	89.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft

5" = 100' FEET MD