



GAMMA RAY

5" = 100' FEET MD

COMPANY : ANADARKO E&P ONSHORE LLC WELL : GOODIN 37N-C6HZ FIELD : WATTENBERG COUNTY : WELD STATE : COLORADO COUNTRY : U.S.A. UWI : 05-123-40743									
COMPANY : ANADARKO E&P ONSHORE LLC WELL : GOODIN 37N-C6HZ FIELD : WATTENBERG COUNTY : WELD STATE : COLORADO COUNTRY : U.S.A. UWI : 05-123-40743									
WELL LOCATION LAT:40°3'35.442"N LONG:104°42'8.672"W N:1265650.89 ft E:3223248.92 ft SEC:07 TWP:1N RANGE:65W									
OTHER SERVICES ROP									
DEPTH REF. : RKB REF. HEIGHT : 25.000 ft RKB to Ground Level GROUND LEVEL : 5004.000 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	0	1606	0 - 27	0	3936				
8.75	1606	7584	27 - 0	3936	6621				
6.125	7584	13432	0 - 79	6621	7524				
			79 - 91	7524	13372				
CASING RECORD									
CASING SIZE in	FROM ft	TO ft							
9.625	0	1597							
7	0	7574							
			DRILLING CO. : H&P RIG : 307 LMD UNIT NO. : C11-BM#70 / DISTRICT: CASPER SPUD DATE : 01/05/2015 LMD START DATE : 02/15/2015 LMD END DATE : 02/22/2015 DEPTH : 1587 ft DEPTH : 13432 ft TOTAL DEPTH : 13432 ft						

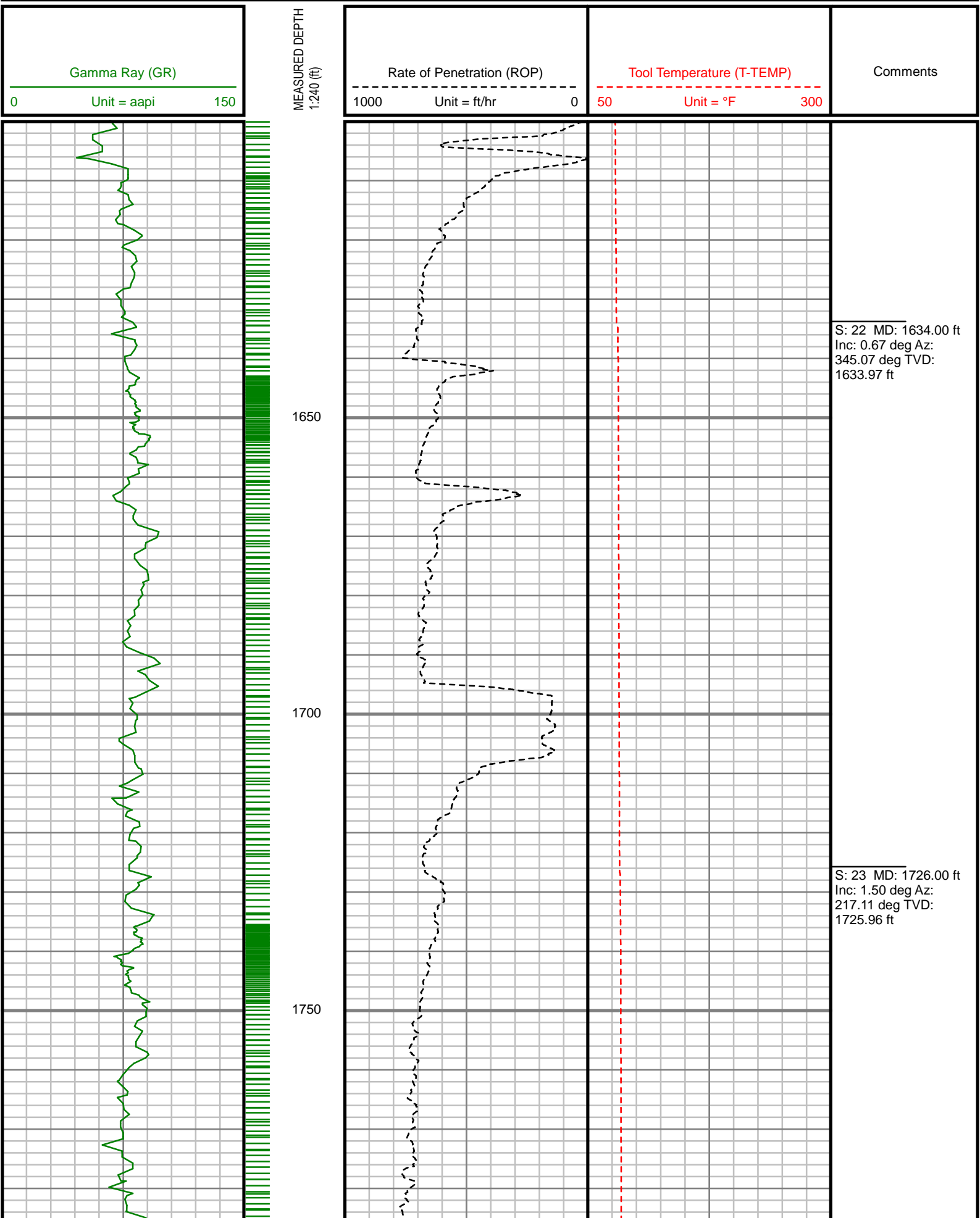
Run Data						
RUN NUMBER	1	2	3			
START DATE	02/15/2015	02/17/2015	02/19/2015			
START TIME	1630	0530	1330			
END DATE	02/17/2015	02/18/2015	02/22/2015			
END TIME	0430	1030	0530			
DEPTH IN (ft)	1606	7211	7584			
DEPTH OUT (ft)	7211	7584	13432			
LOG TOP (ft)	1606	7159	7535			
LOG BOTTOM (ft)	7159	7535	13382			
HOLE SIZE (in)	8.75	8.75	6.125			
MUD DATA @ (ft)	1600	7584	13432			
MUD TYPE	WATER-BASED	WATER-BASED	WATER-BASED			
DENSITY (lb / gal)	8.8	10.2	9.7			
VISCOSITY (s / qt)	30	52	47			
pH	8.3	9.6	9.8			
FLUID LOSS (cm3 / 30)	10.8	4.4	3.8			
SALINITY (ppm)	-	-	-			
Rm (ohmm @ deg F)	-	-	-			
Rmf (ohmm @ deg F)	-	-	-			
MAX TEMP (deg F)	171	190	229			
Rm @ MAX TEMP (ohmm)	-	-	-			
LWD ENGINEER #1	S. WAXLER	S. WAXLER	S. WAXLER			
LWD ENGINEER #2	C. COLLINS	C. COLLINS	S. NEJAD			
LWD ENGINEER #3	-	-	-			
LOG WITNESS #1	-	-	-			
LOG WITNESS #2	-	-	-			

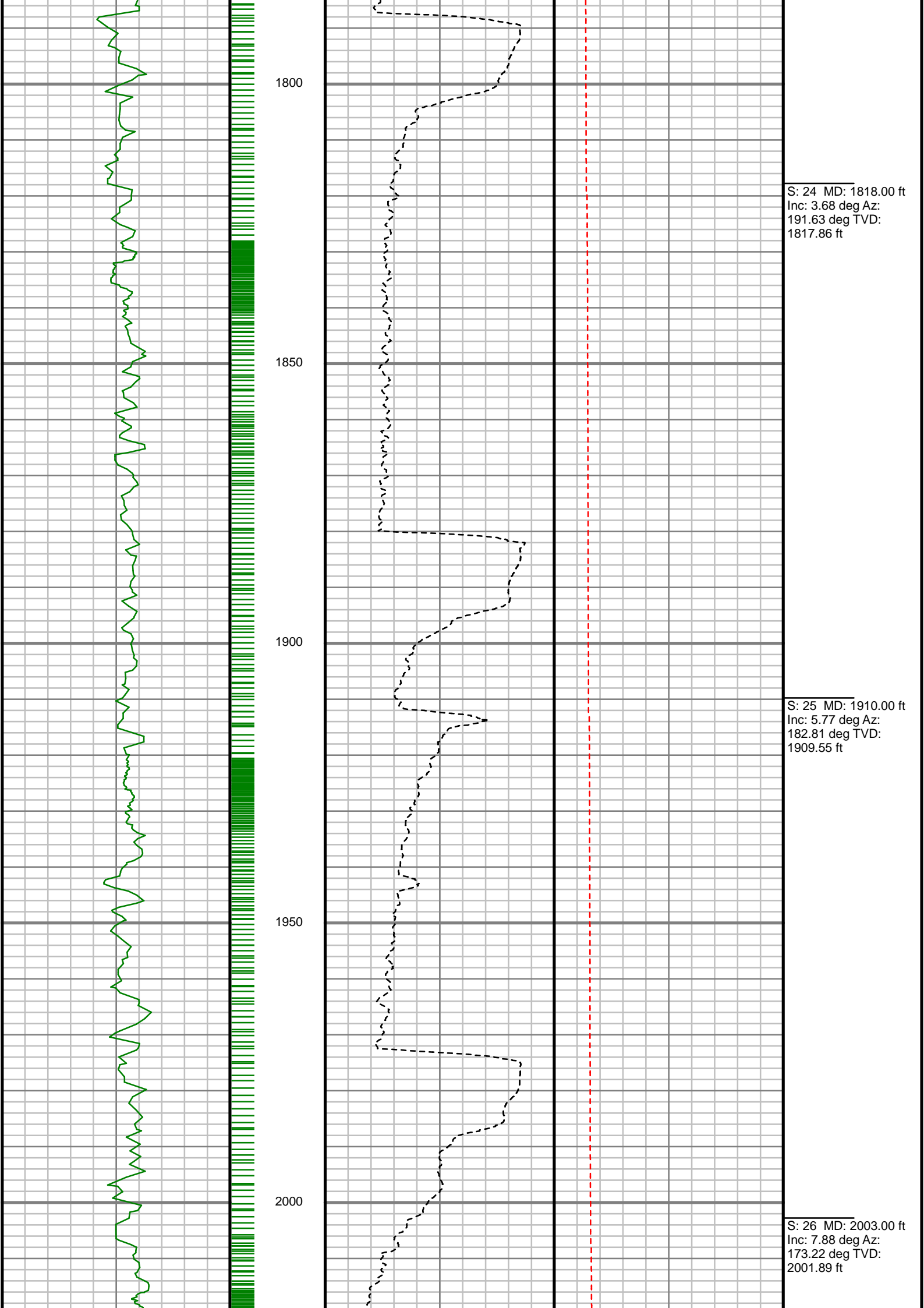
Remarks
ANADARKO PRODUCTION AFE# 2097449
SCIENTIFIC DRILLING INTERNATIONAL JOB# 255802
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
RUN #1: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-115 / CONT = 631 / MWD EYE = 1213 / GAMMA RAY = 1208
BIT TO SENSOR OFFSETS: SURVEY = 61.12 FT. / GAMMA RAY = 52.47 FT.
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-608 / CONT = 939 / MWD EYE = 1017 / GAMMA RAY = 1218
BIT TO SENSOR OFFSETS: SURVEY = 57.59 FT. / GAMMA RAY = 48.94 FT.
RUN #3: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 78-170 / CONT = 932 / MWD EYE = 1107 / GAMMA RAY = 1439
BIT TO SENSOR OFFSETS: SURVEY = 58.41 FT. / GAMMA RAY = 49.76 FT.
REMARK #1: GAMMA RAY FROM 7535 FT. TO 7574 FT. WAS LOGGED BEHIND CASING.
MNEMONICS LIST:
GR = GAMMA RAY
ROP = RATE OF PENETRATION

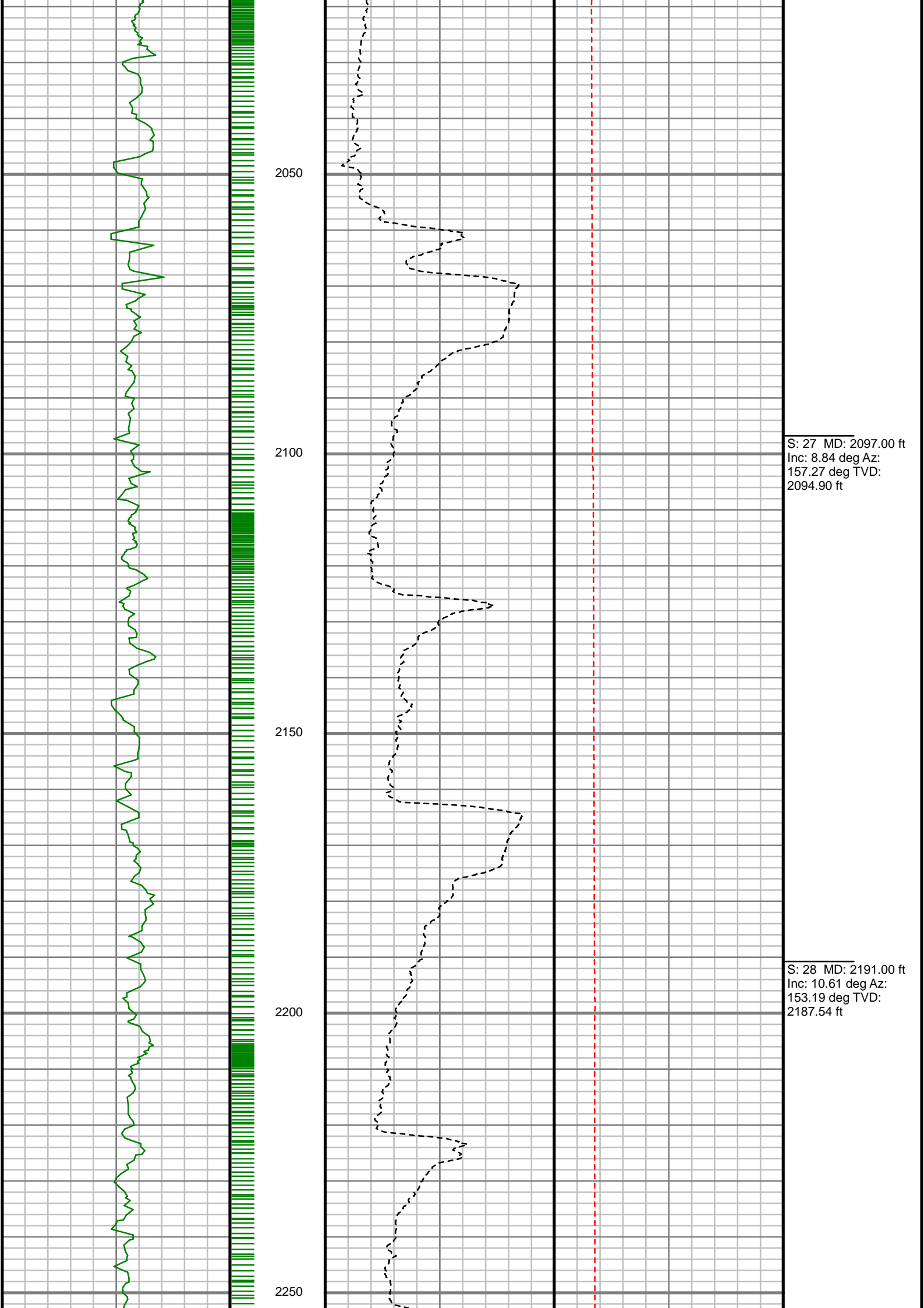
[illegible]

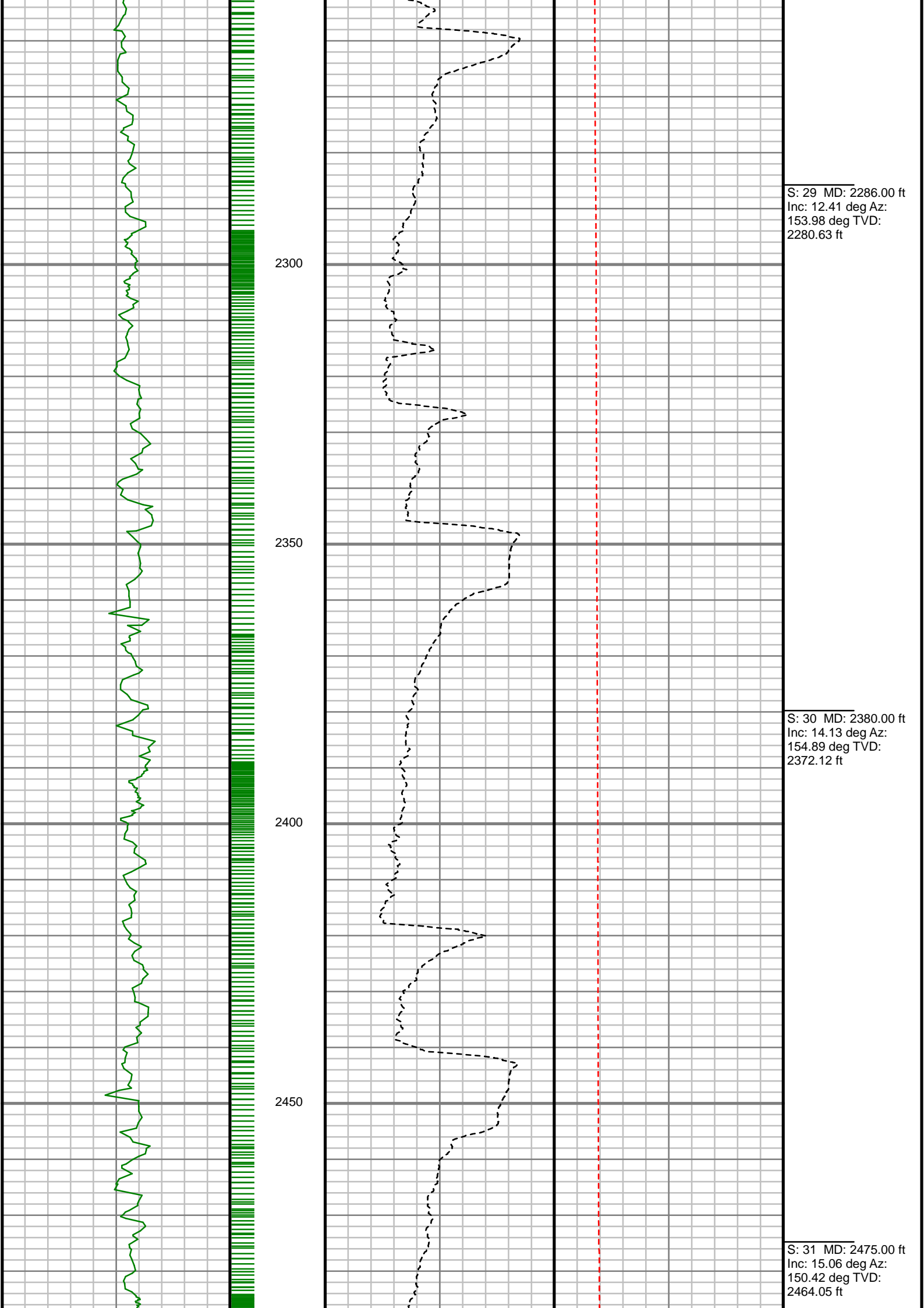
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

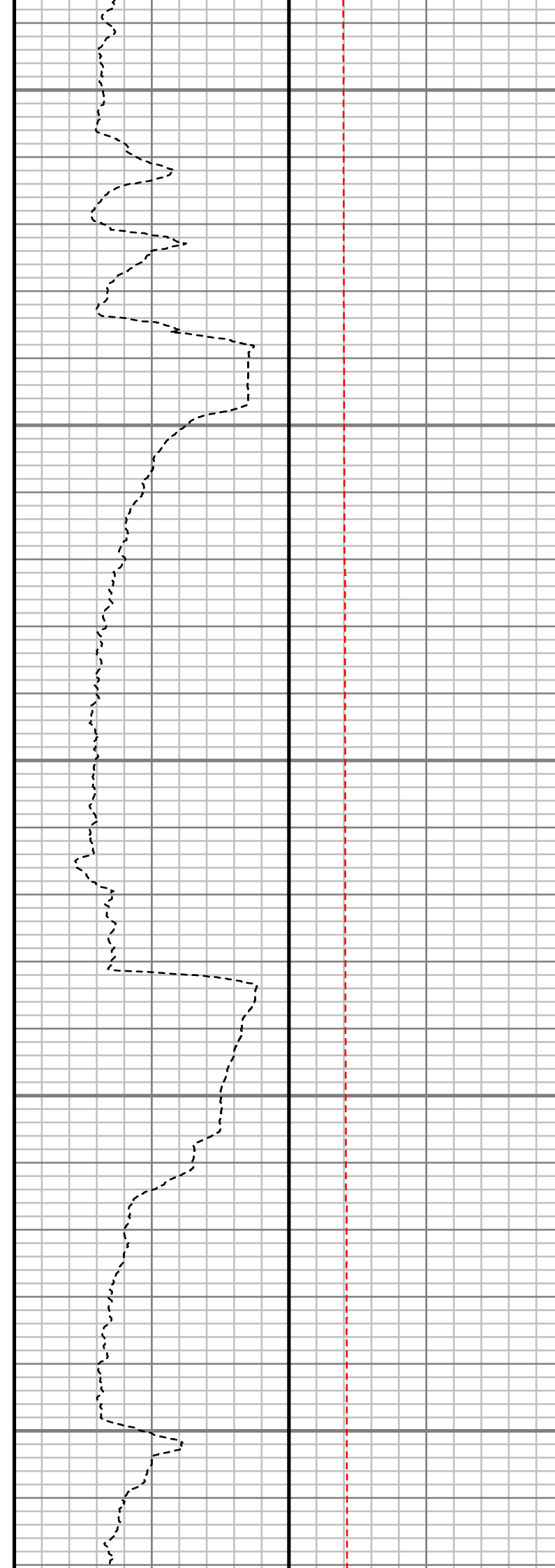
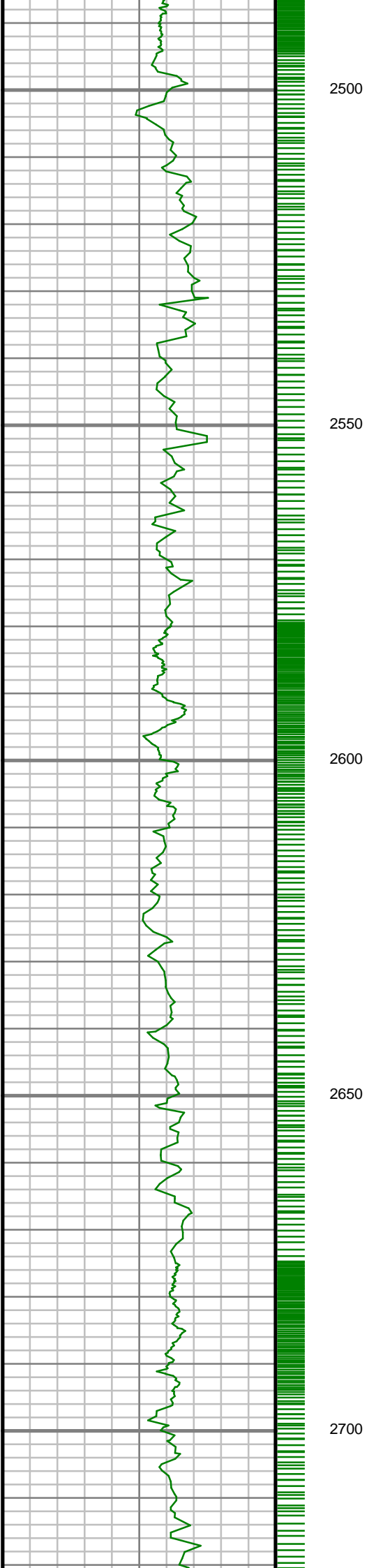
ANADARKO E&P ONSHORE LLC
GOODIN 37N-C6HZ
WATTENBERG FIELD
WELD COUNTY, COLORADO
05-123-40743





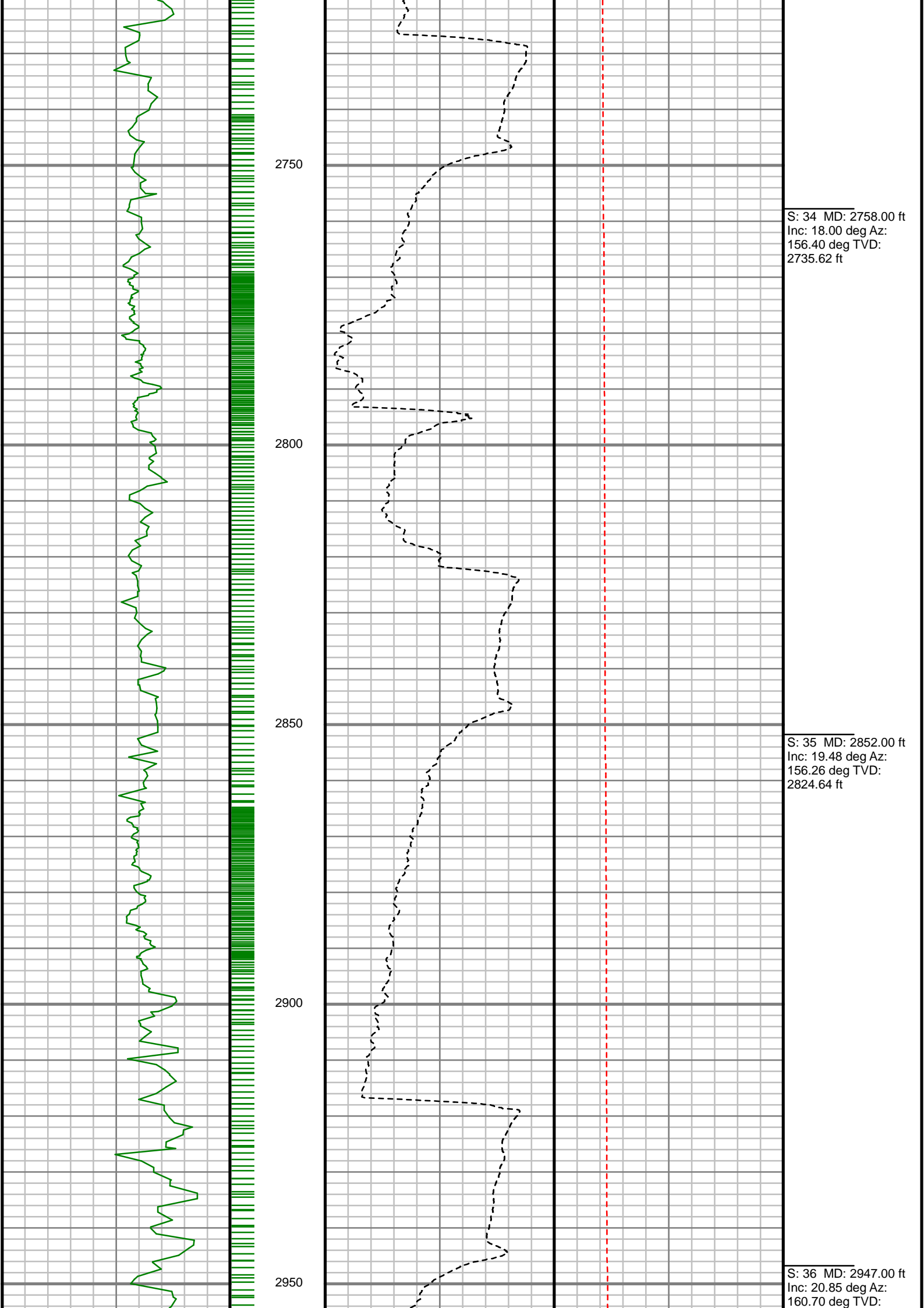


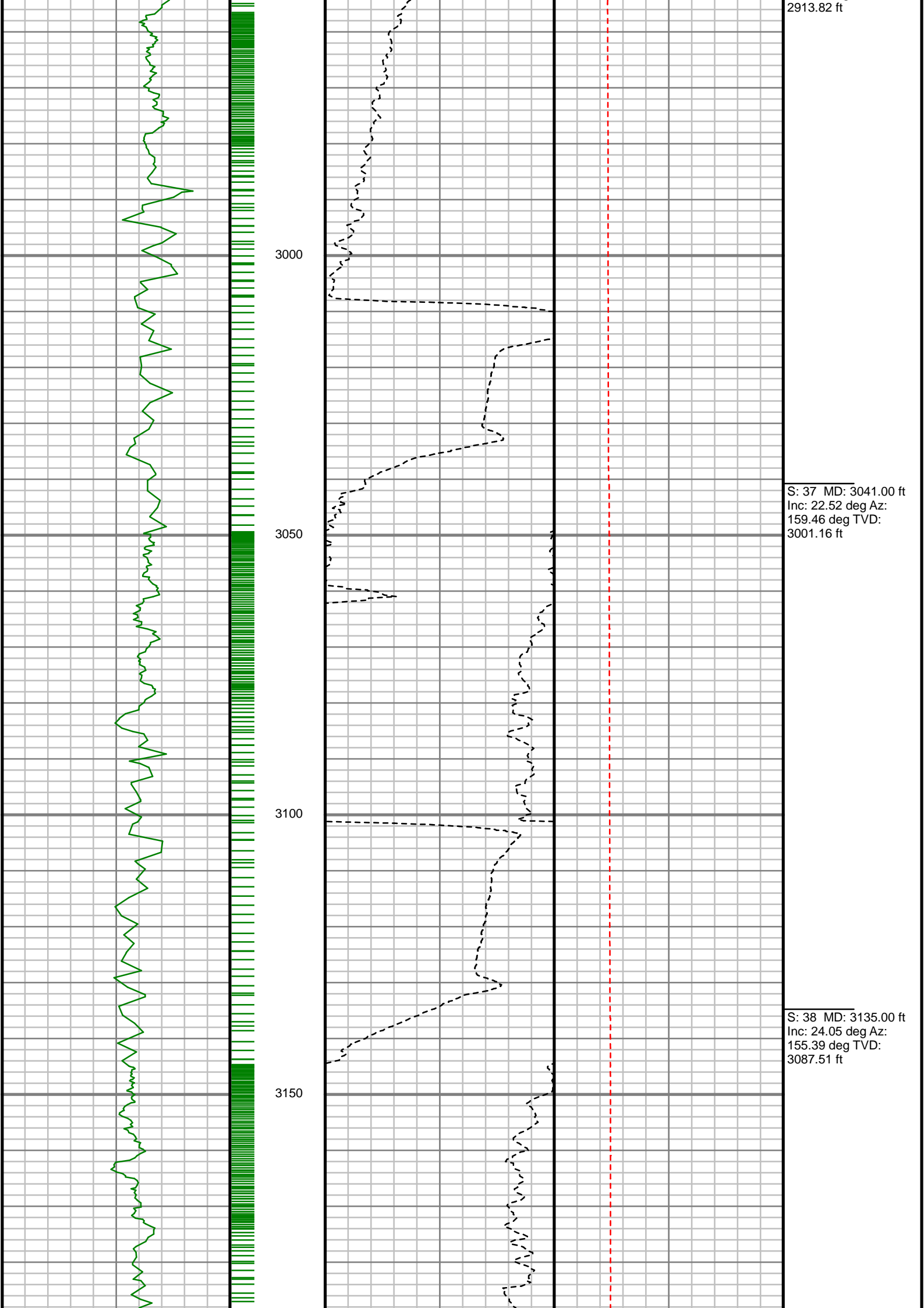


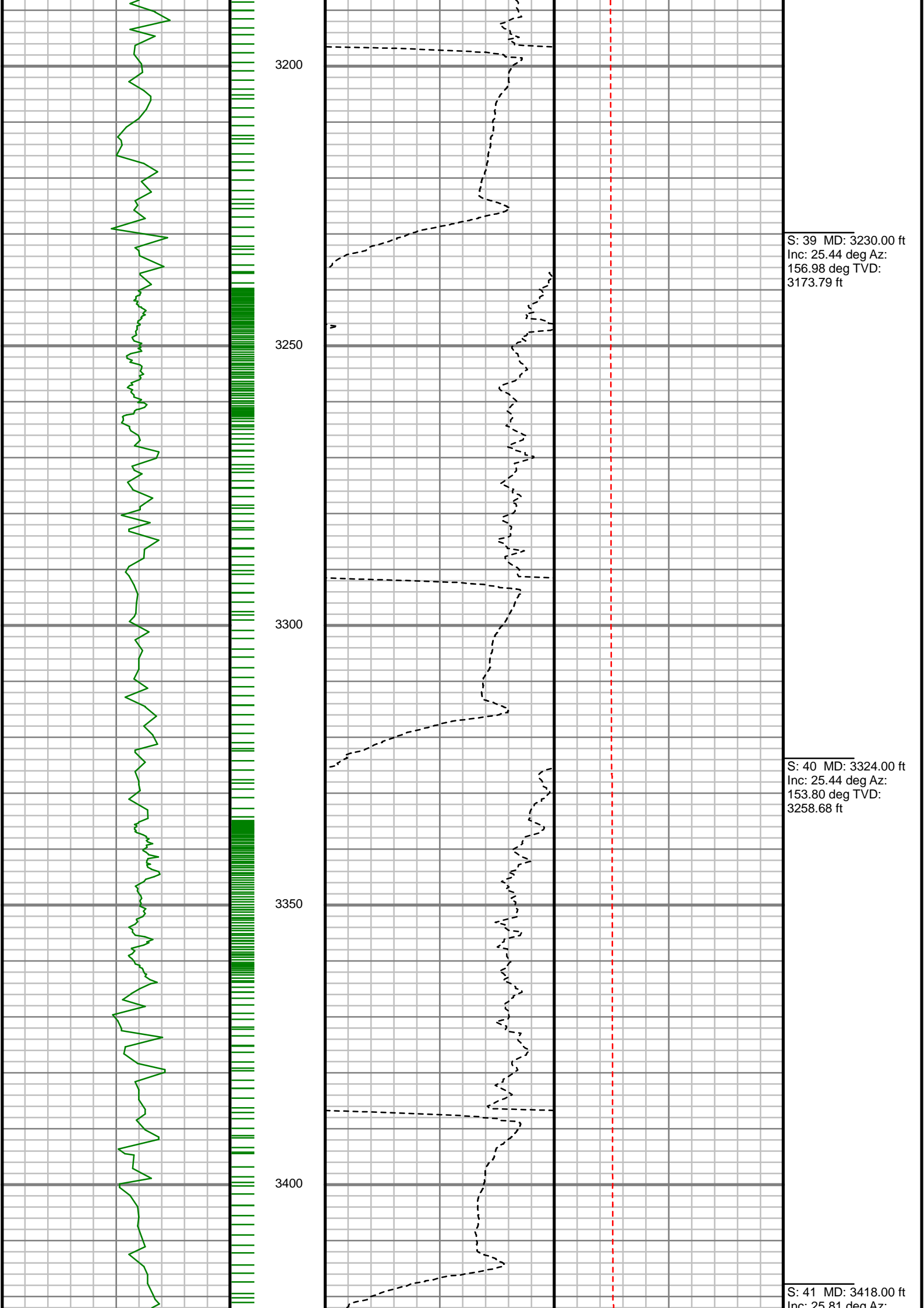


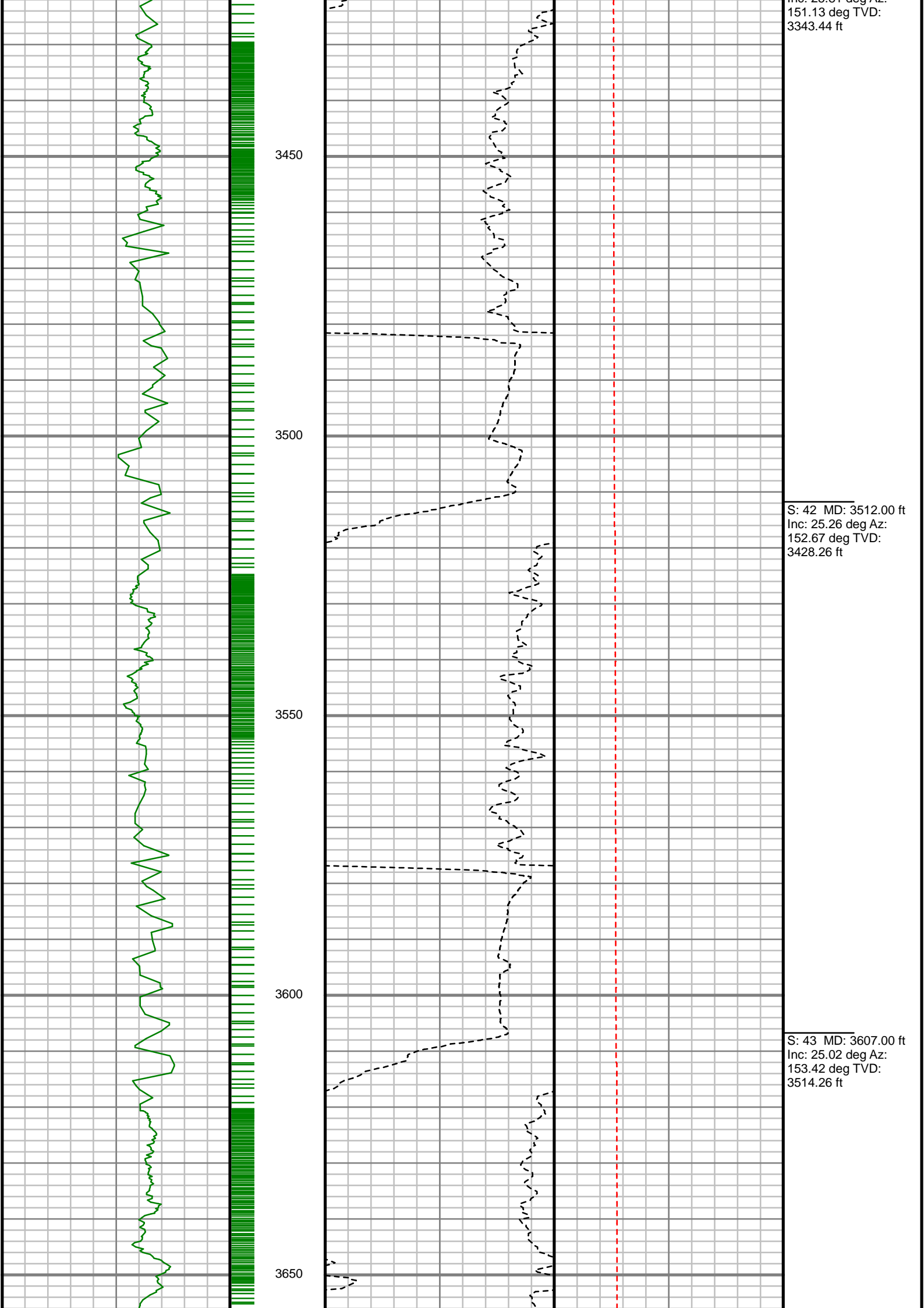
S: 32 MD: 2569.00 ft
Inc: 15.42 deg Az:
147.53 deg TVD:
2554.75 ft

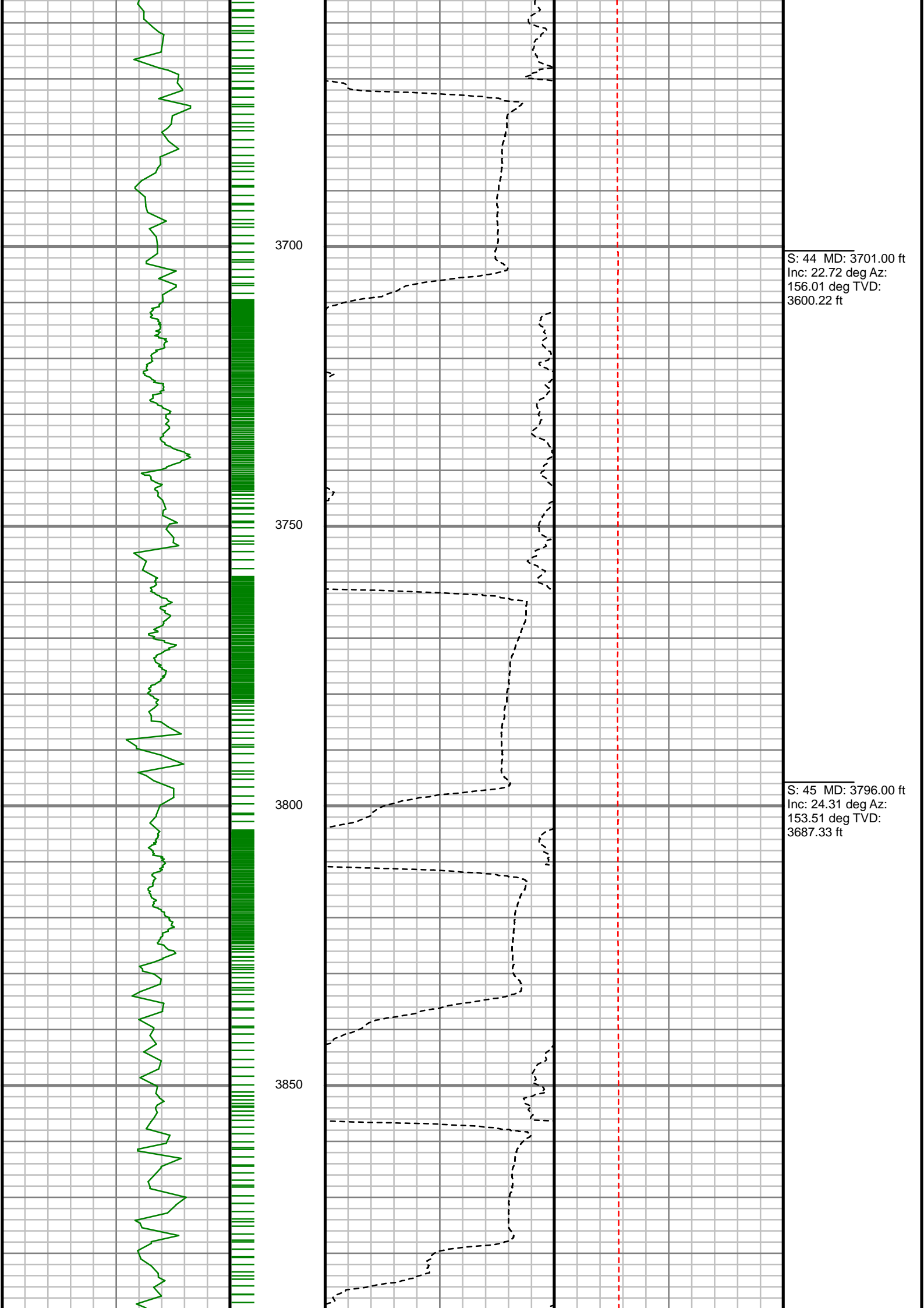
S: 33 MD: 2664.00 ft
Inc: 17.02 deg Az:
149.09 deg TVD:
2645.97 ft





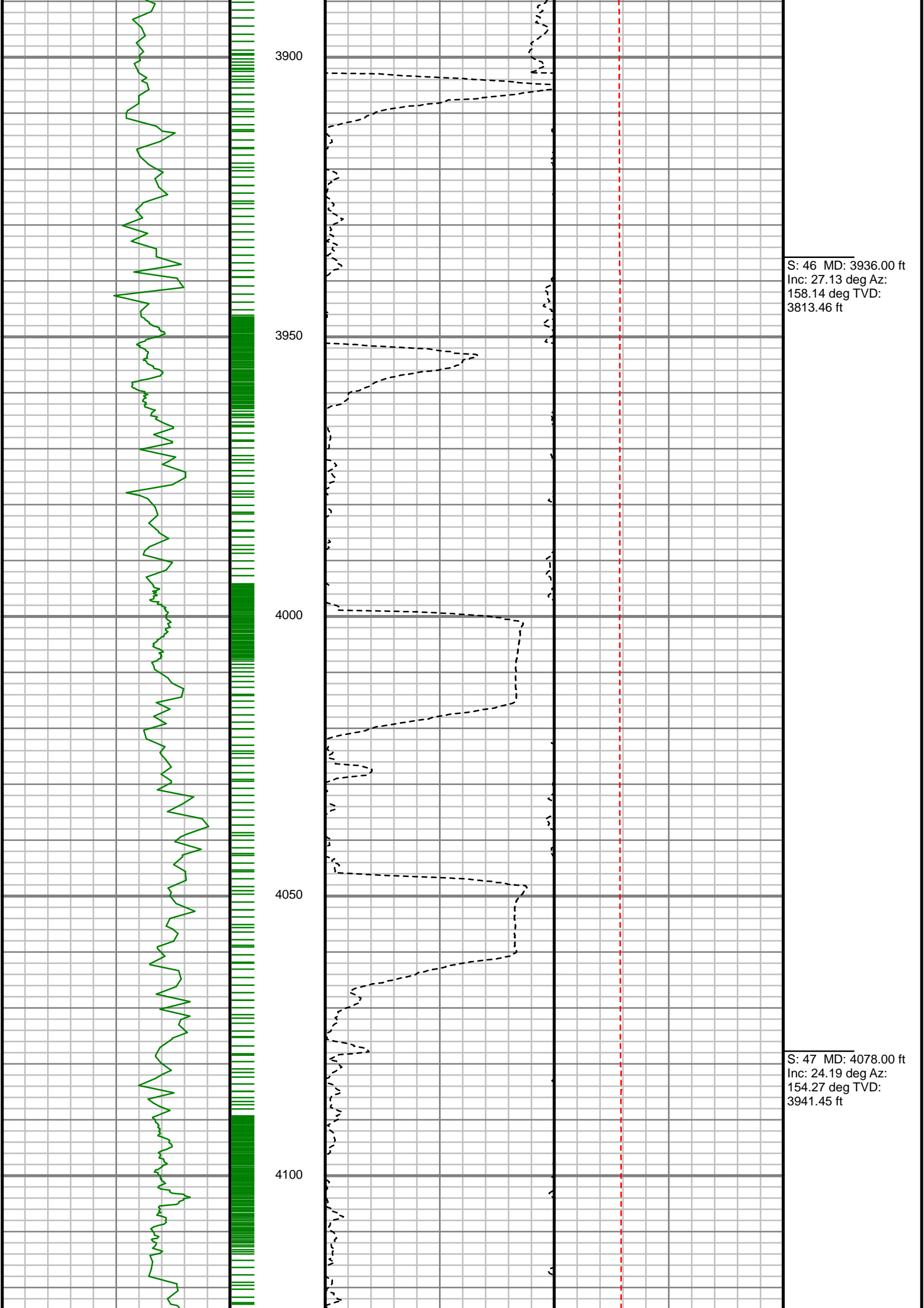






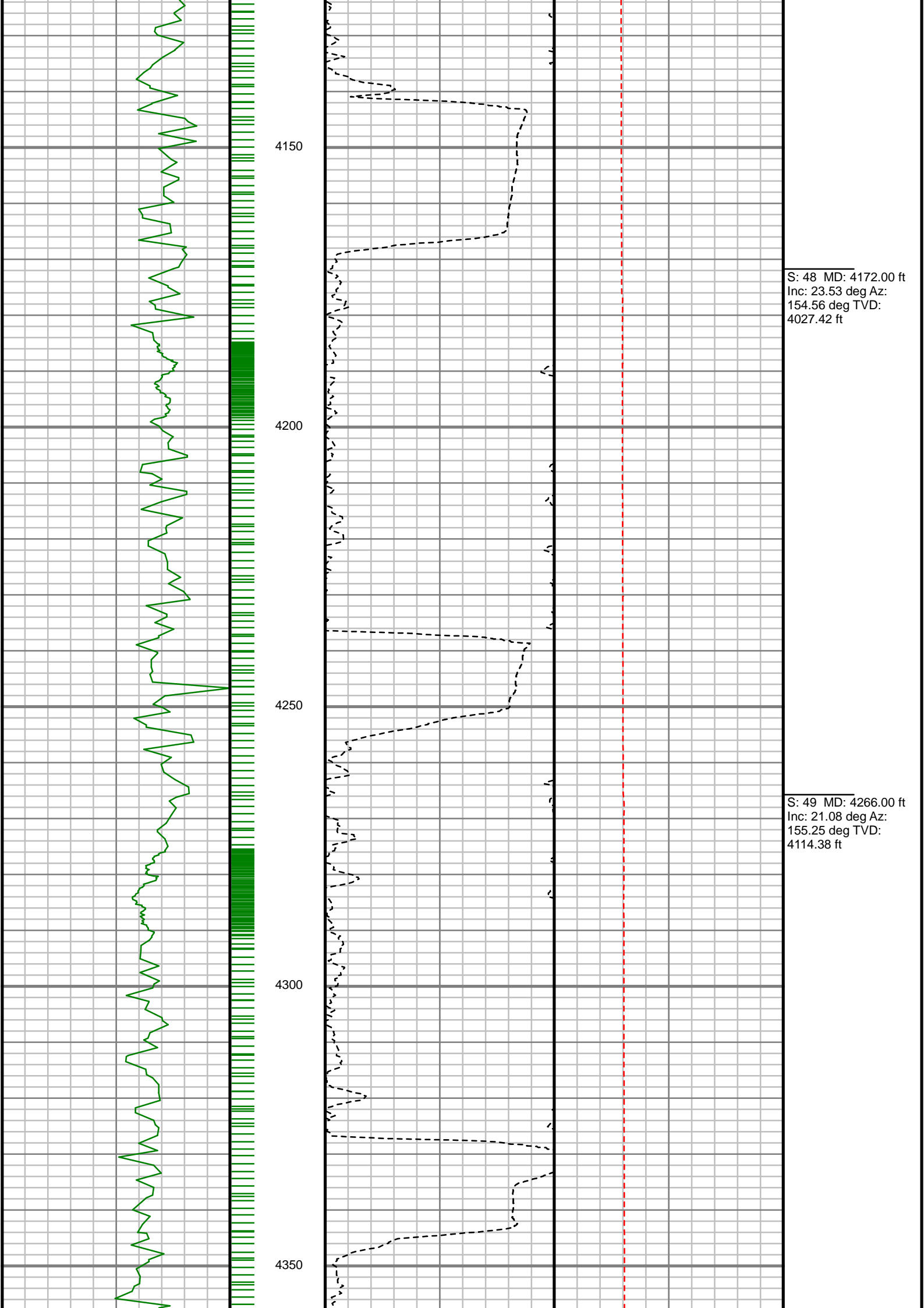
S: 44 MD: 3701.00 ft
Inc: 22.72 deg Az:
156.01 deg TVD:
3600.22 ft

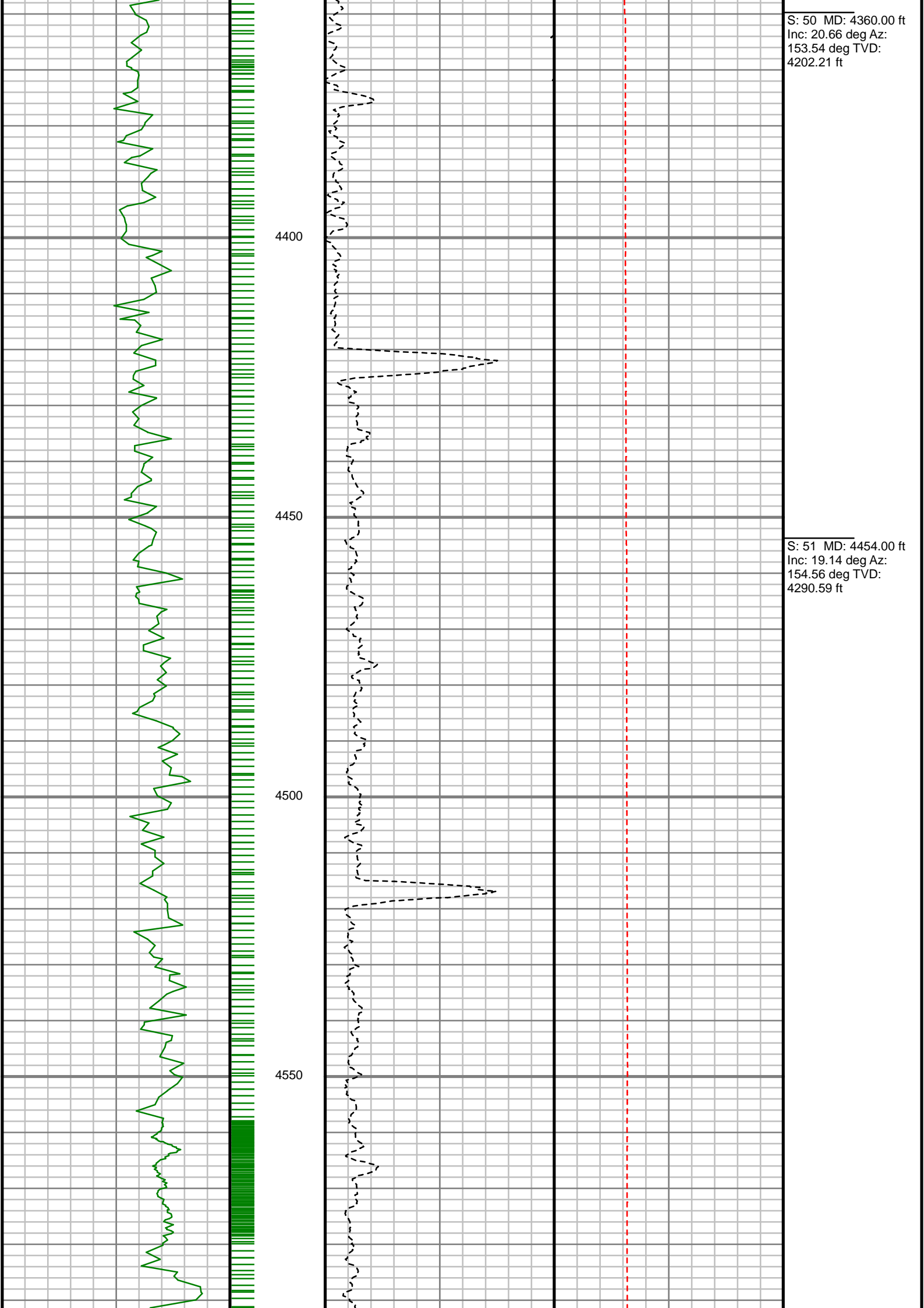
S: 45 MD: 3796.00 ft
Inc: 24.31 deg Az:
153.51 deg TVD:
3687.33 ft

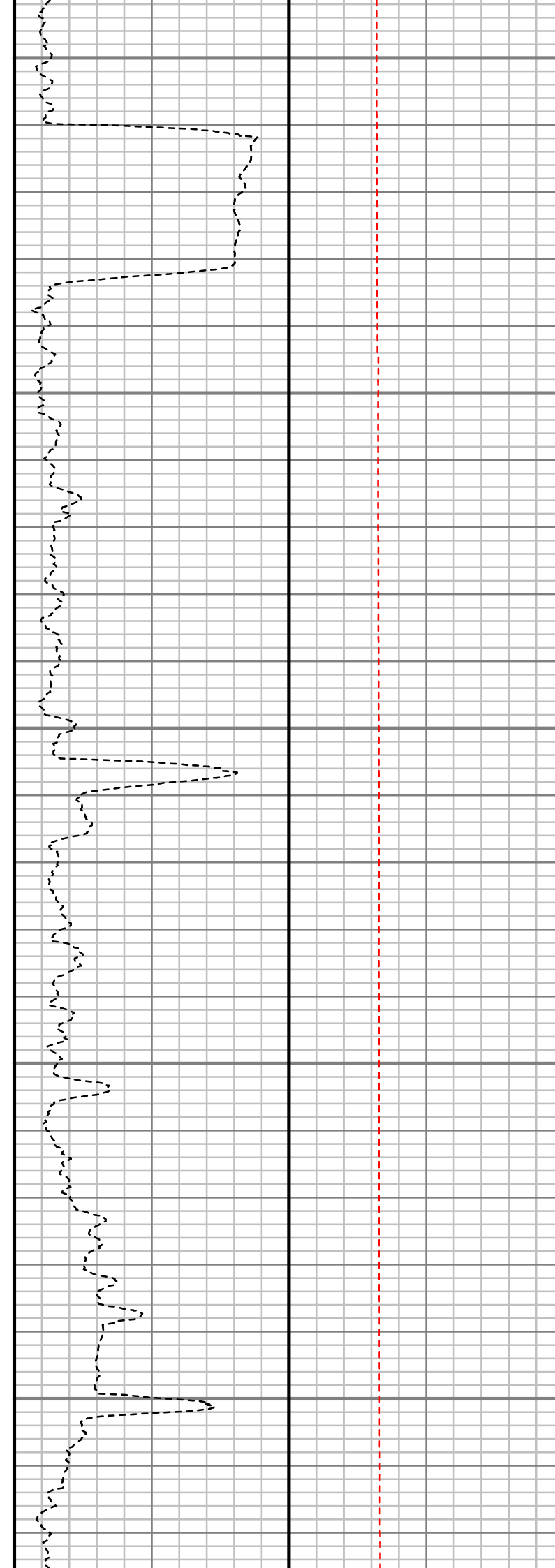
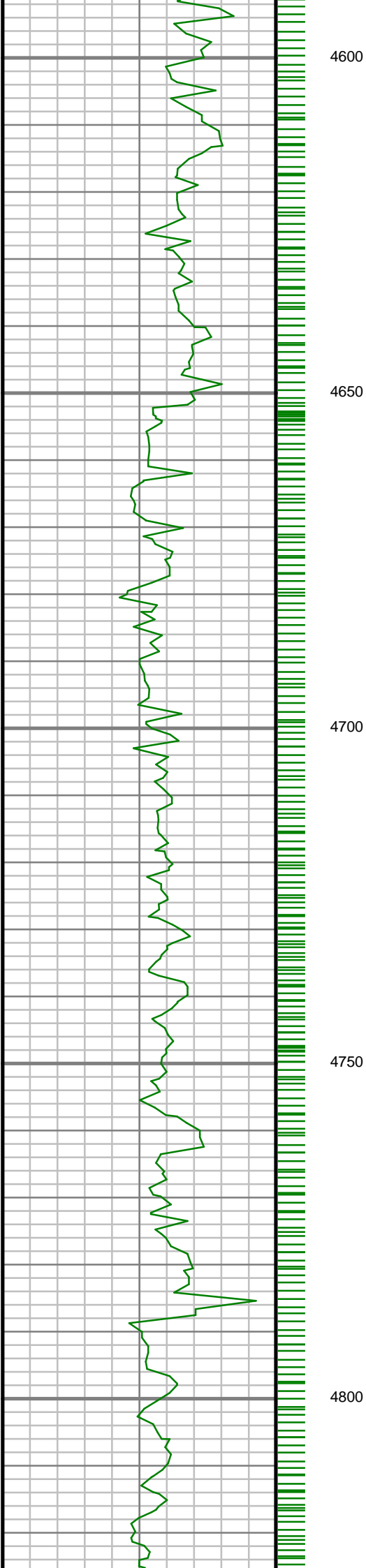


S: 46 MD: 3936.00 ft
Inc: 27.13 deg Az:
158.14 deg TVD:
3813.46 ft

S: 47 MD: 4078.00 ft
Inc: 24.19 deg Az:
154.27 deg TVD:
3941.45 ft

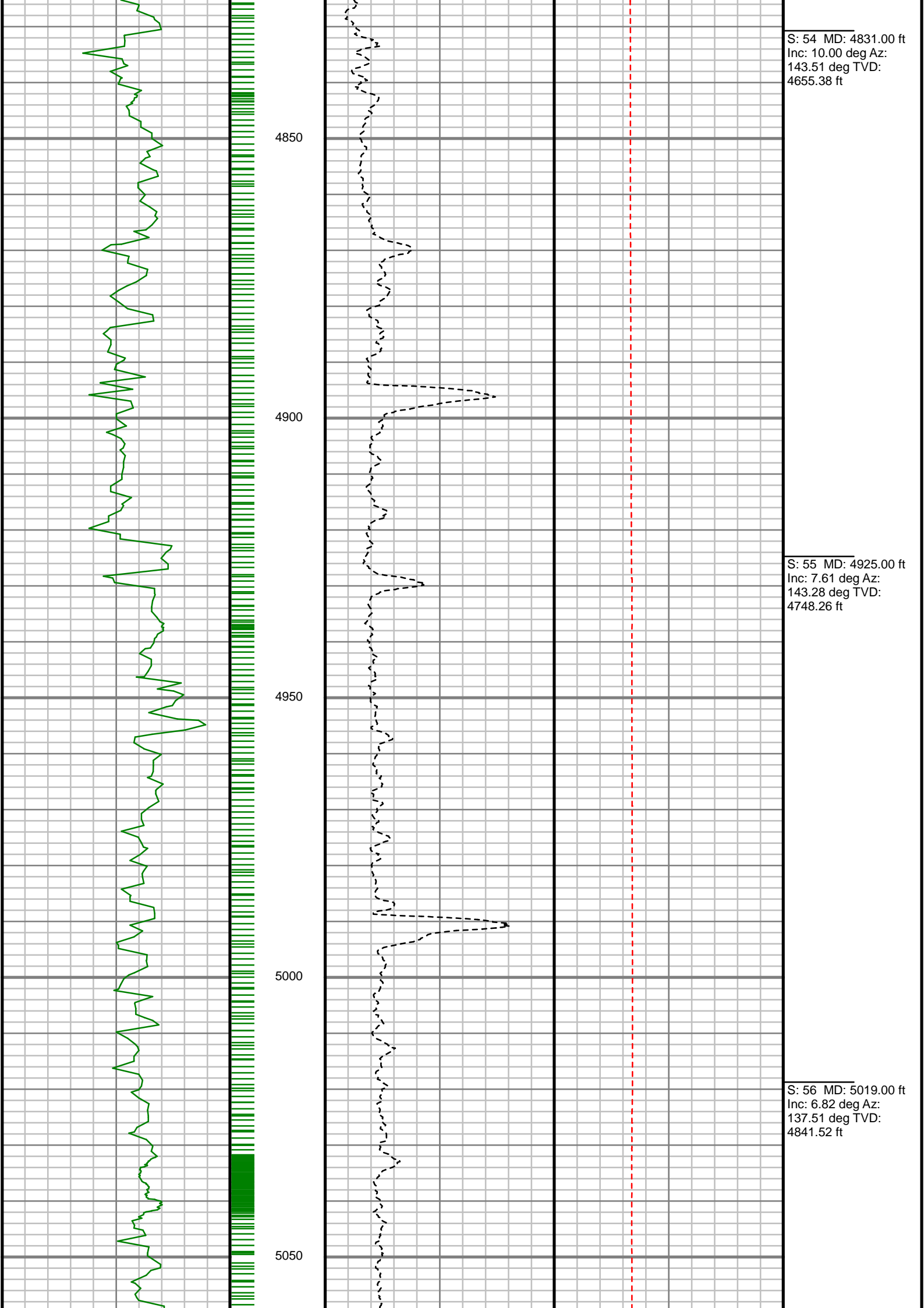


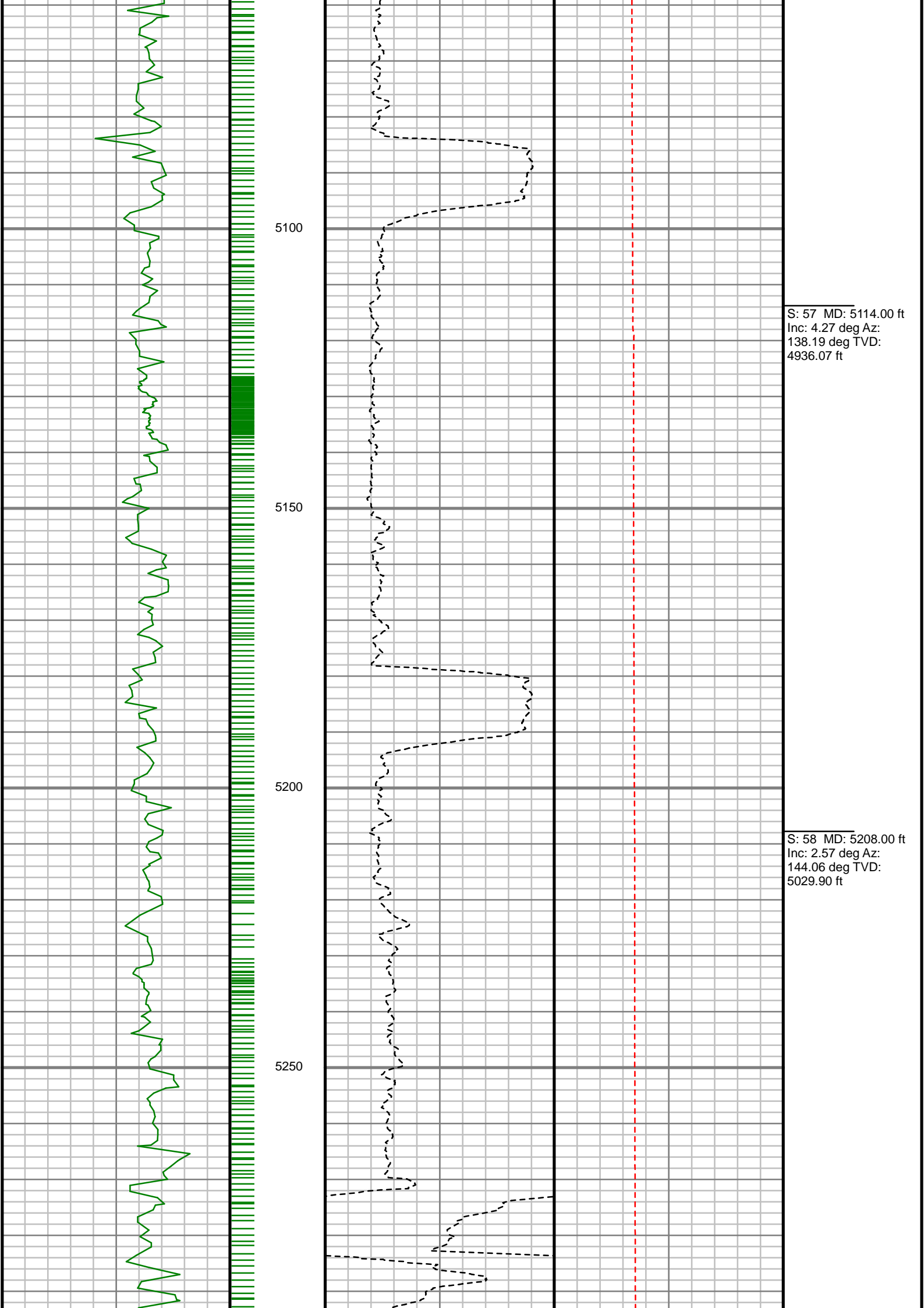


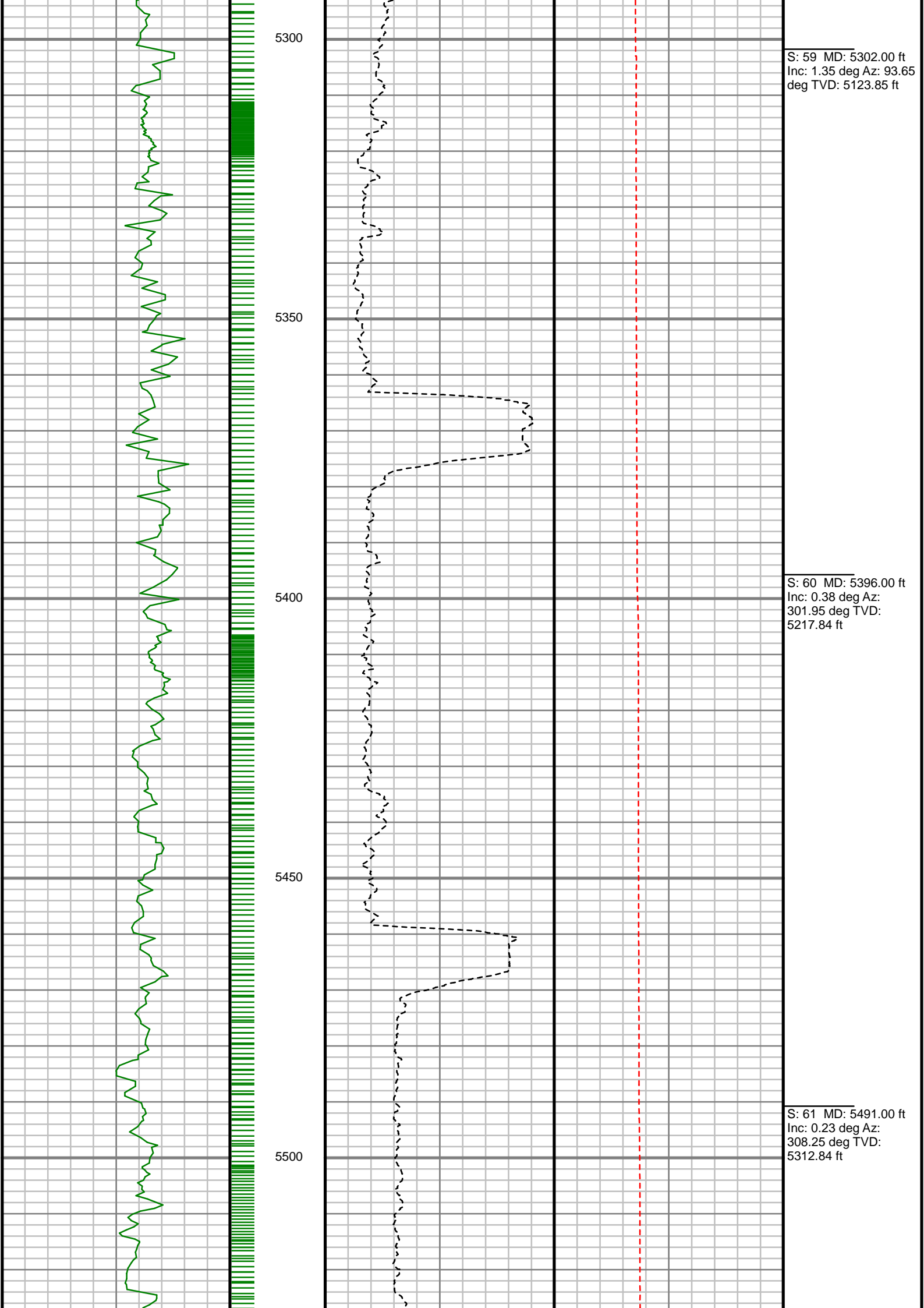


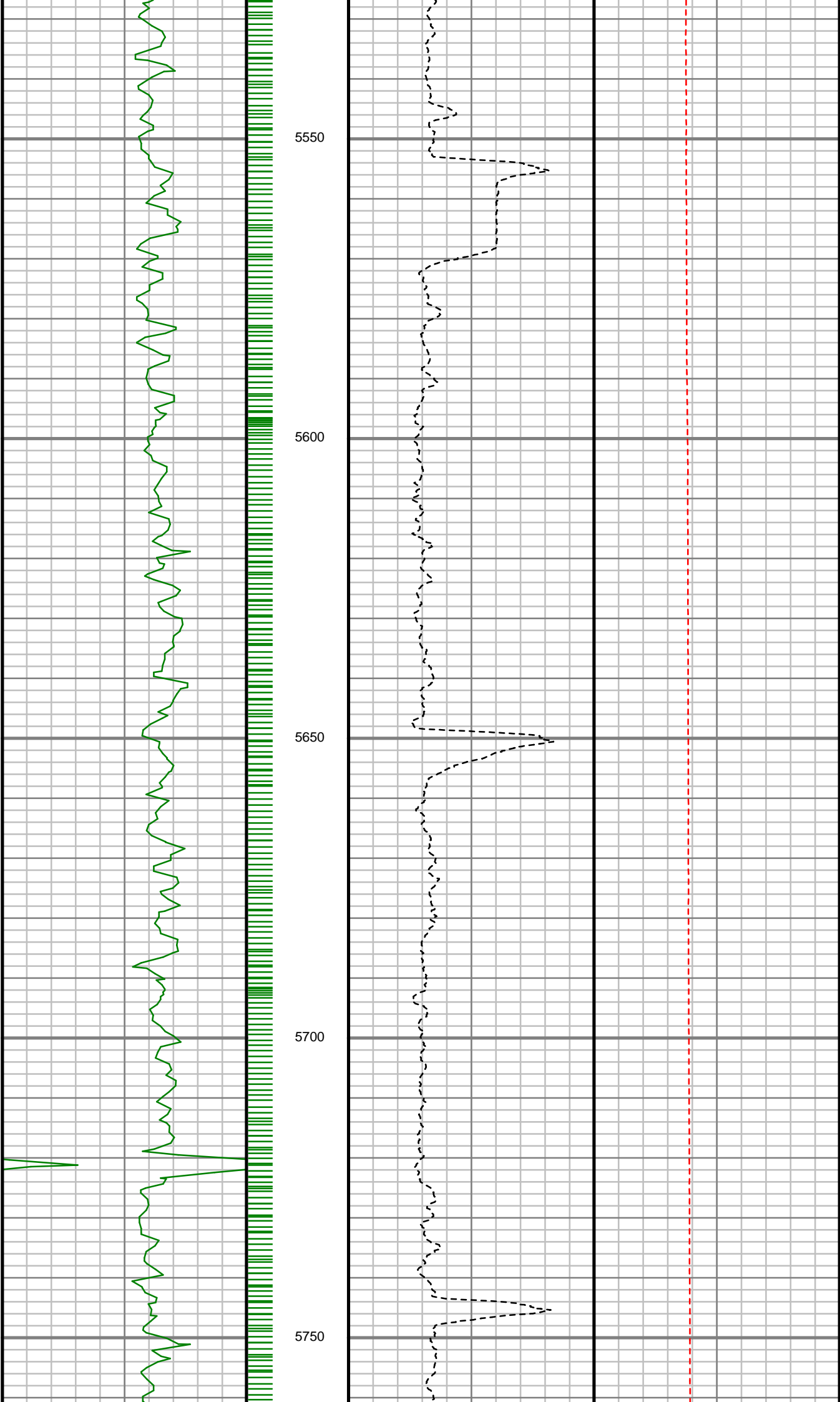
S: 52 MD: 4643.00 ft
Inc: 14.11 deg Az:
152.05 deg TVD:
4471.64 ft

S: 53 MD: 4737.00 ft
Inc: 12.28 deg Az:
148.01 deg TVD:
4563.16 ft

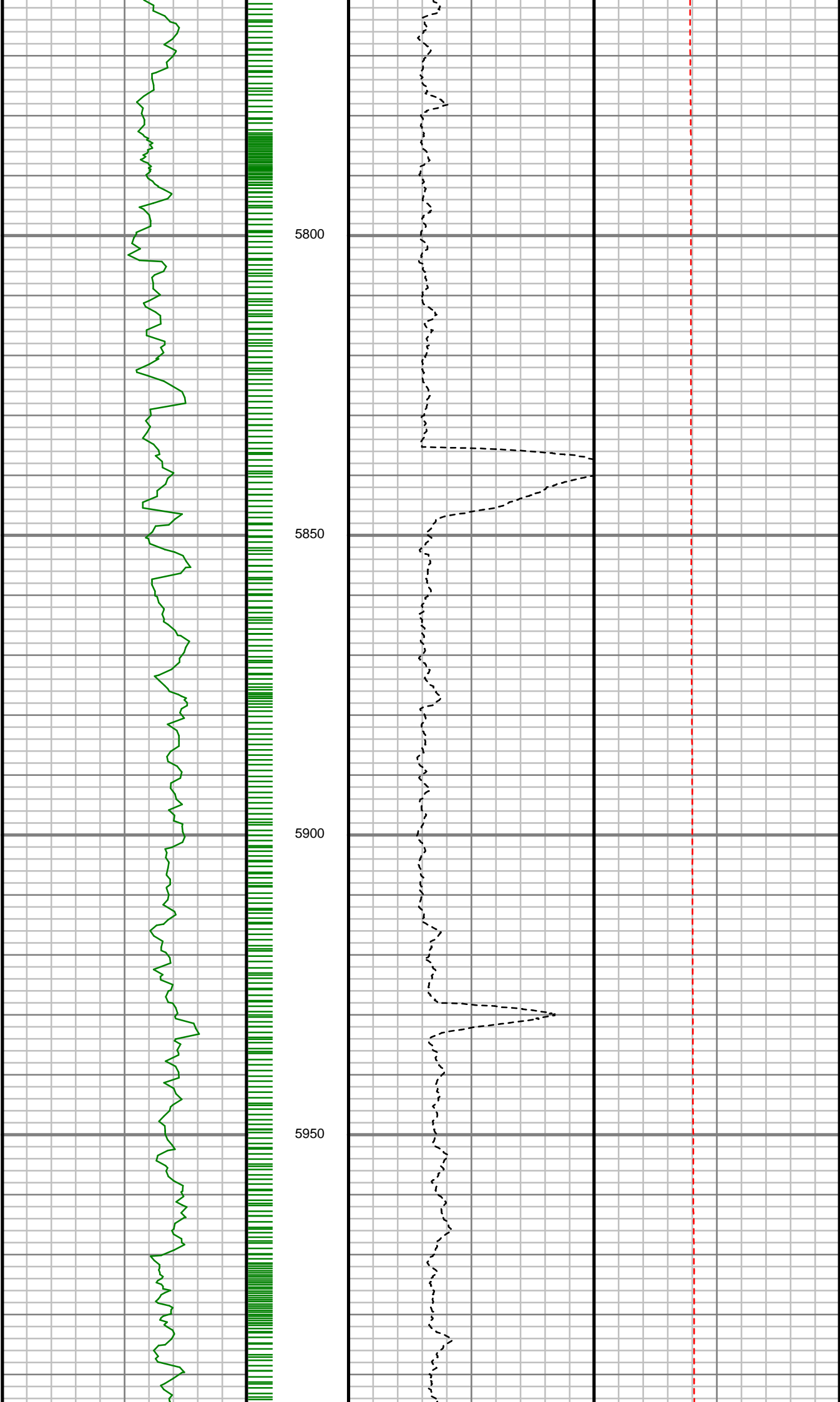






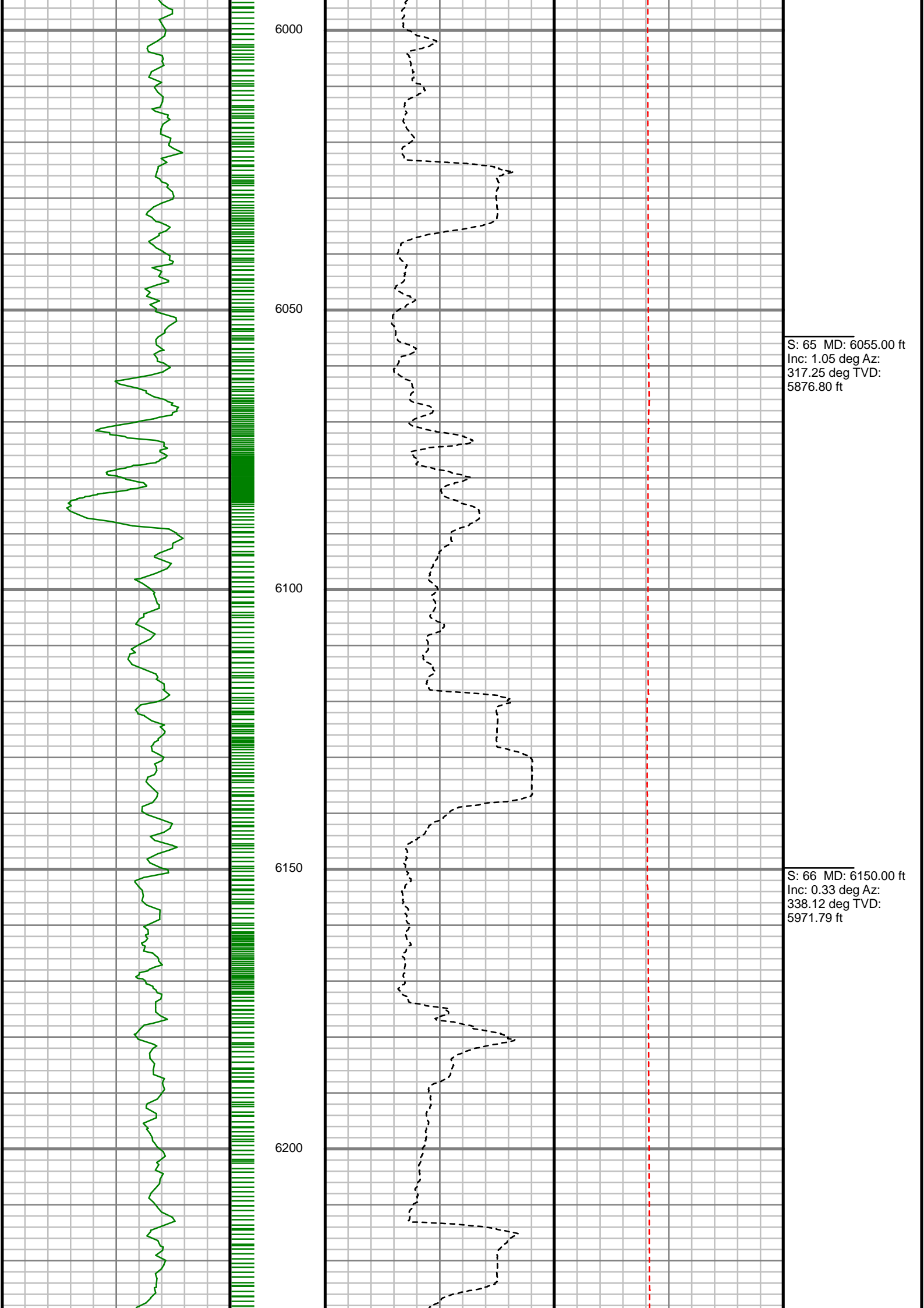


S: 62 MD: 5585.00 ft
Inc: 0.37 deg Az:
304.10 deg TVD:
5406.84 ft



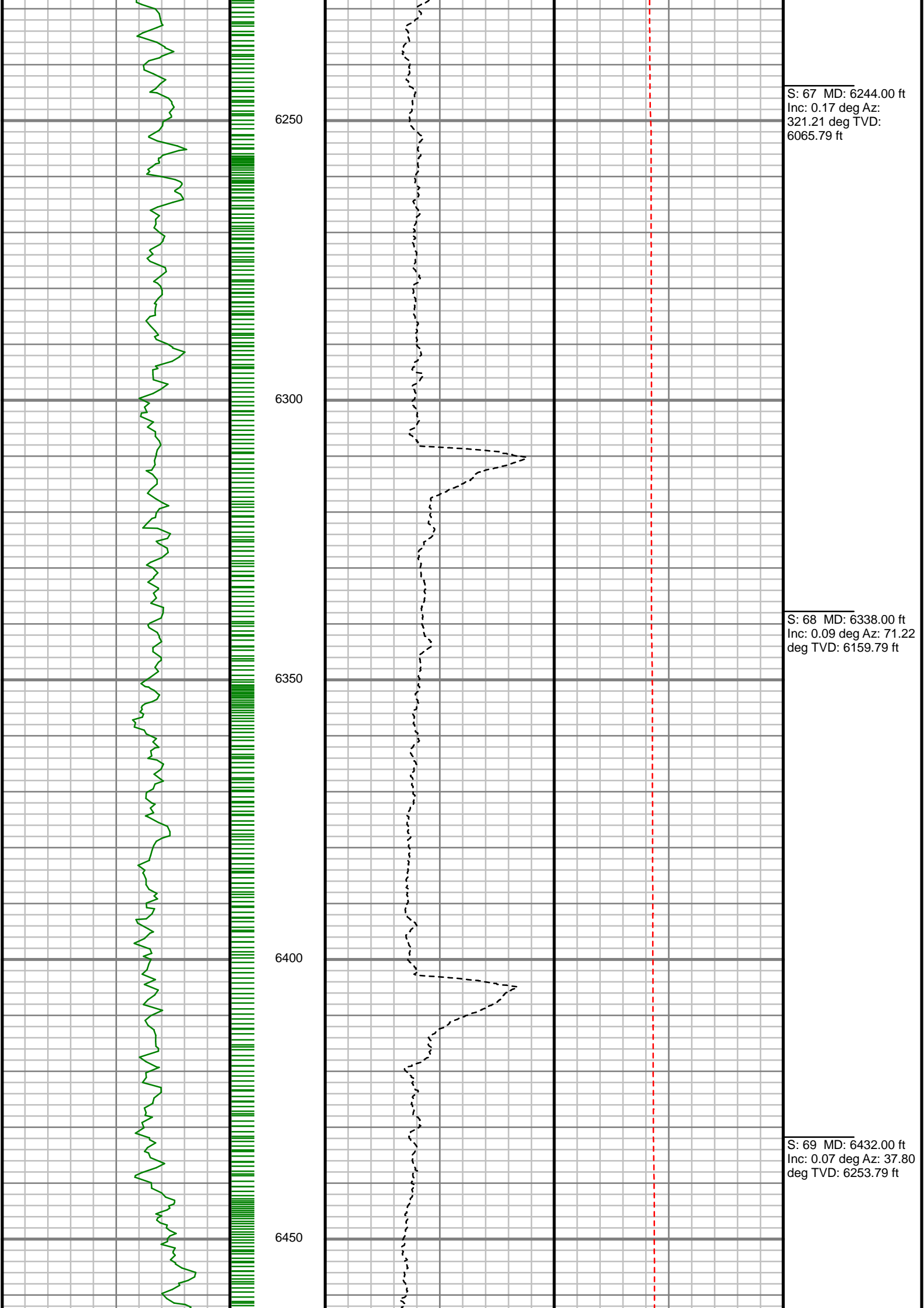
S: 63 MD: 5773.00 ft
Inc: 0.63 deg Az:
304.13 deg TVD:
5594.83 ft

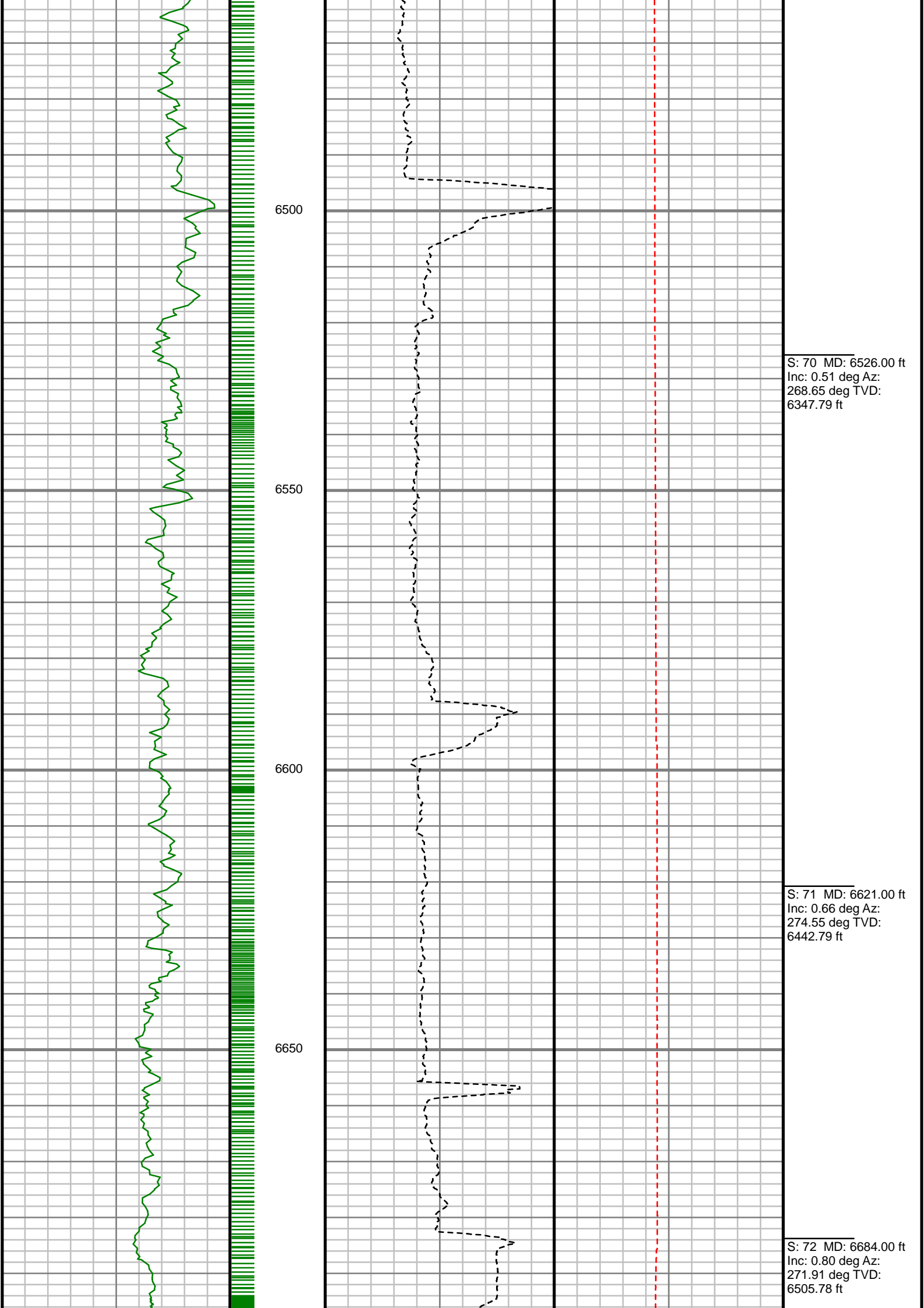
S: 64 MD: 5961.00 ft
Inc: 0.83 deg Az:
292.32 deg TVD:
5782.81 ft

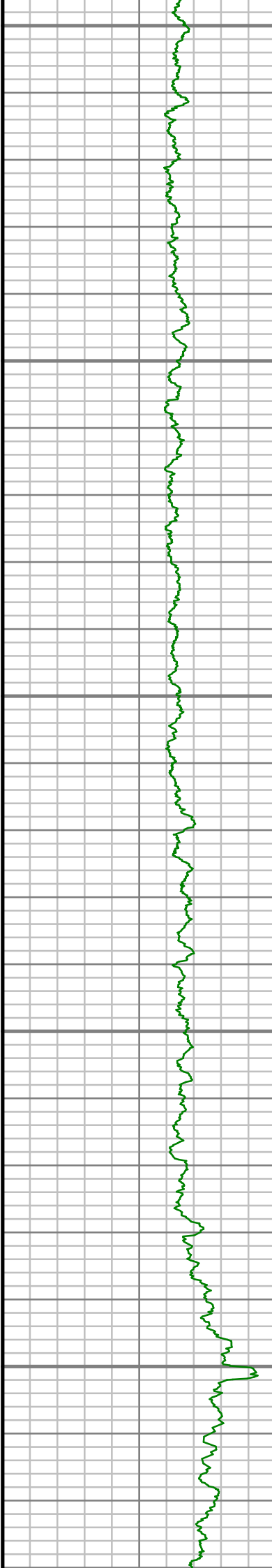


S: 65 MD: 6055.00 ft
Inc: 1.05 deg Az:
317.25 deg TVD:
5876.80 ft

S: 66 MD: 6150.00 ft
Inc: 0.33 deg Az:
338.12 deg TVD:
5971.79 ft







6700

6750

6800

6850

6900

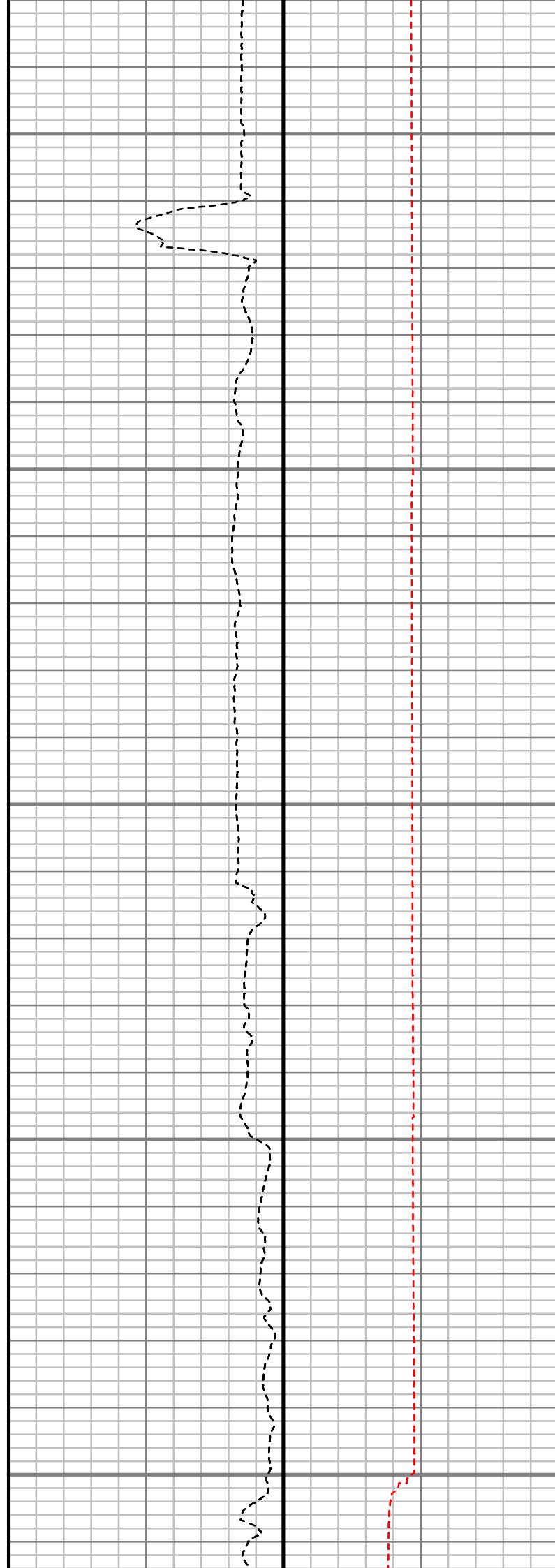
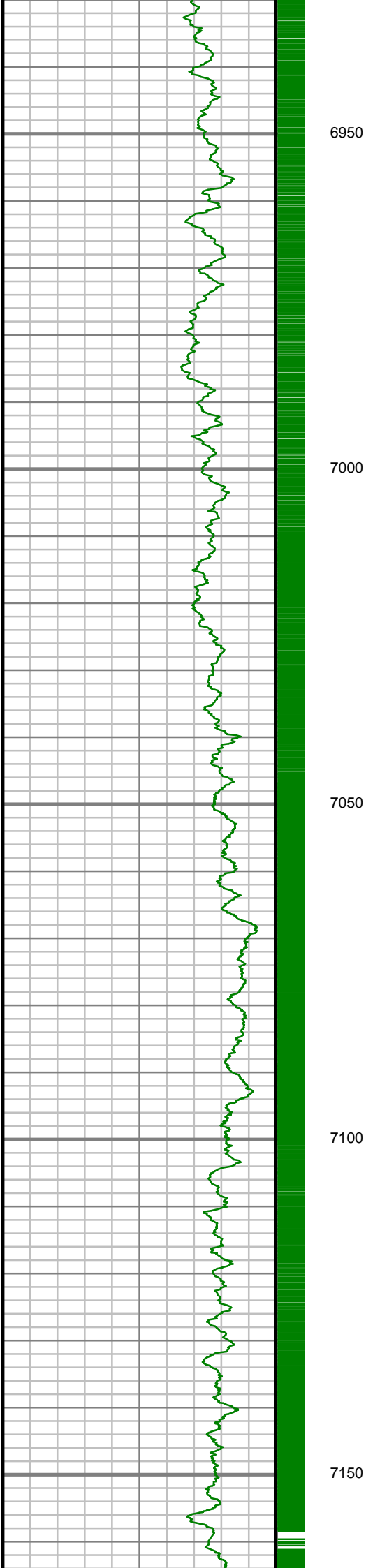


S: 73 MD: 6715.00 ft
Inc: 0.91 deg Az:
258.94 deg TVD:
6536.78 ft

S: 74 MD: 6762.00 ft
Inc: 2.60 deg Az:
347.10 deg TVD:
6583.76 ft

S: 75 MD: 6810.00 ft
Inc: 7.59 deg Az: 5.04
deg TVD: 6631.56 ft

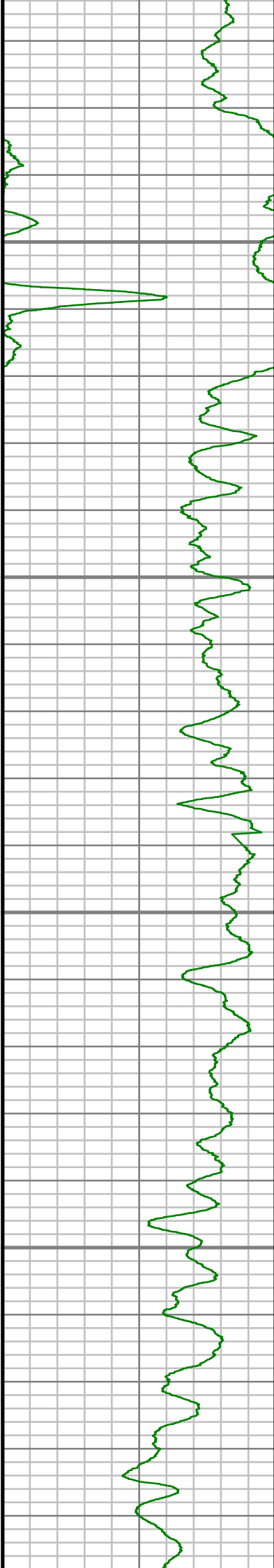
S: 76 MD: 6904.00 ft
Inc: 13.55 deg Az: 0.32
deg TVD: 6723.92 ft



S: 77 MD: 6998.00 ft
Inc: 19.44 deg Az:
345.28 deg TVD:
6814.05 ft

S: 78 MD: 7093.00 ft
Inc: 23.18 deg Az:
349.22 deg TVD:
6902.55 ft

S: 79 MD: 7140.00 ft
Inc: 25.02 deg Az:
351.58 deg TVD:
6945.45 ft



7200

7250

7300

7350



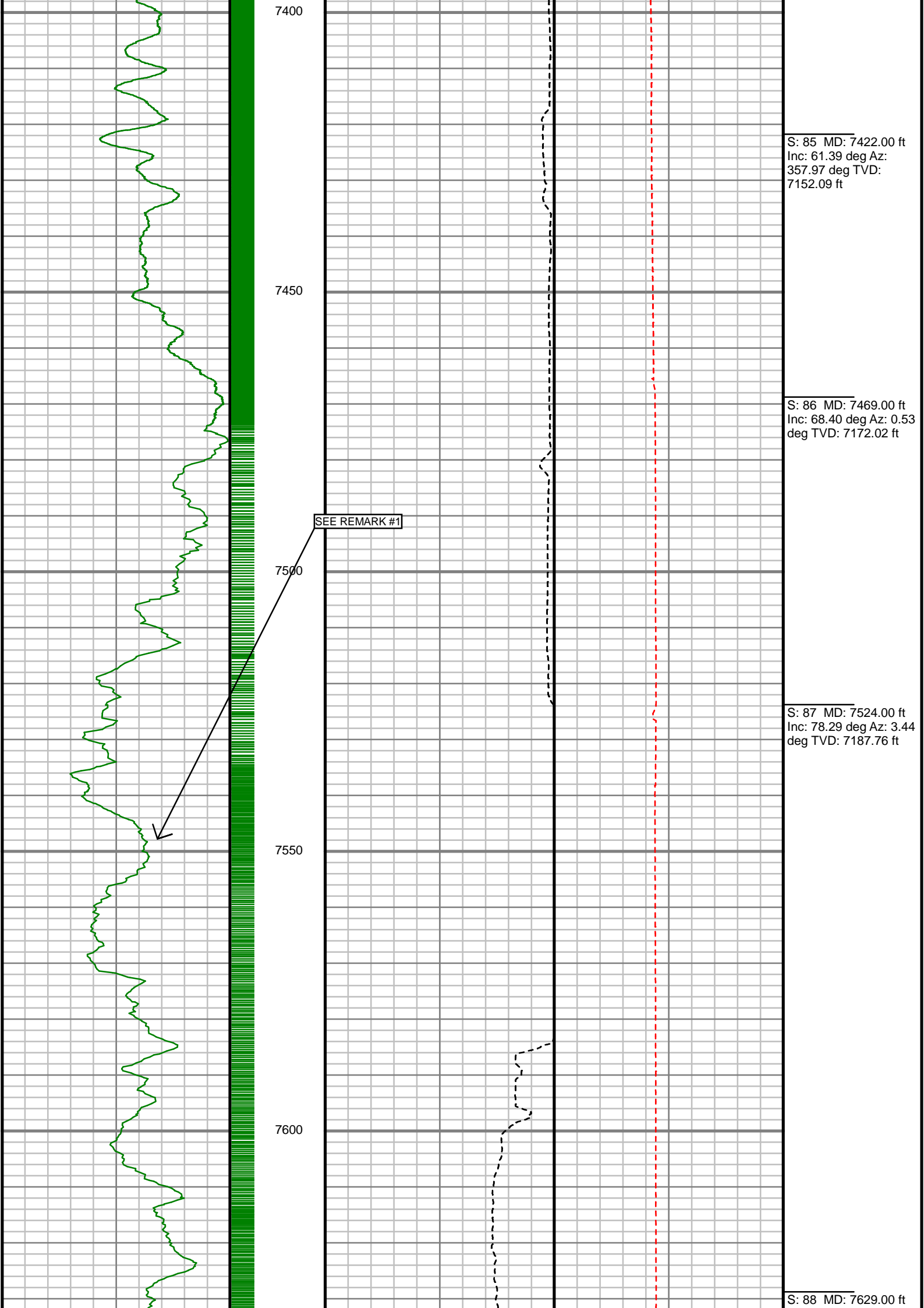
S: 80 MD: 7187.00 ft
Inc: 26.39 deg Az:
350.55 deg TVD:
6987.80 ft

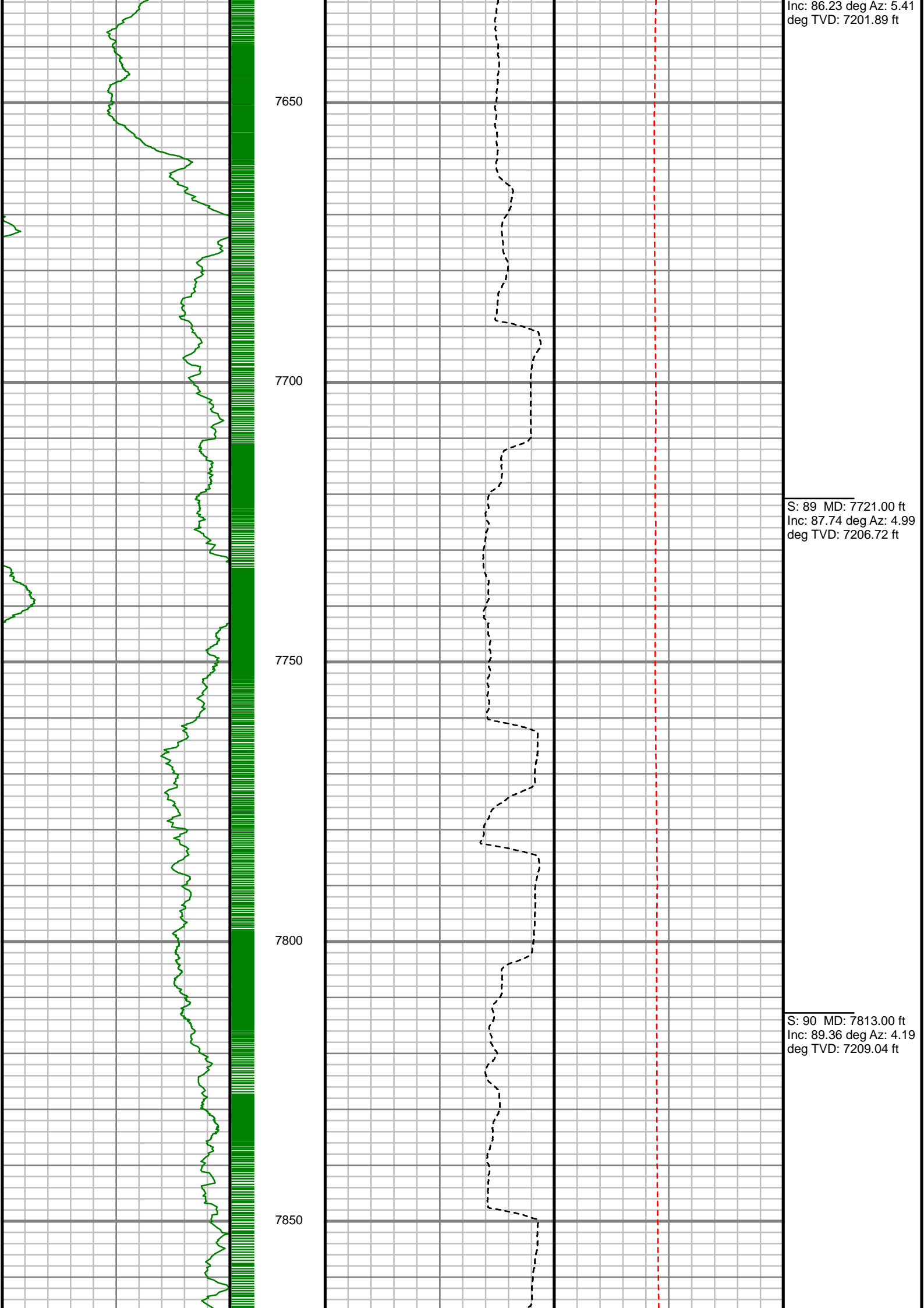
S: 81 MD: 7234.00 ft
Inc: 32.56 deg Az:
350.41 deg TVD:
7028.69 ft

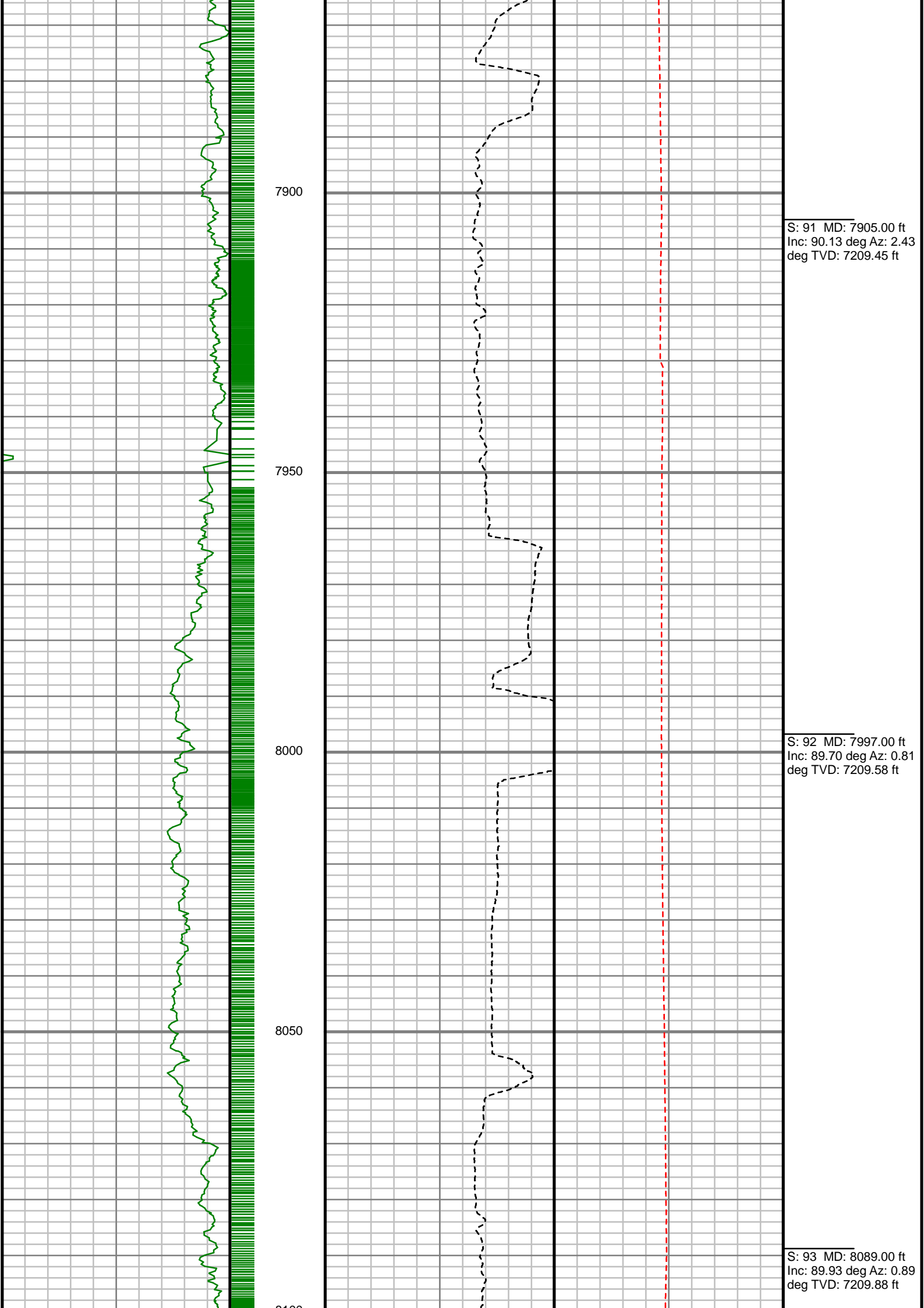
S: 82 MD: 7281.00 ft
Inc: 41.47 deg Az:
353.28 deg TVD:
7066.19 ft

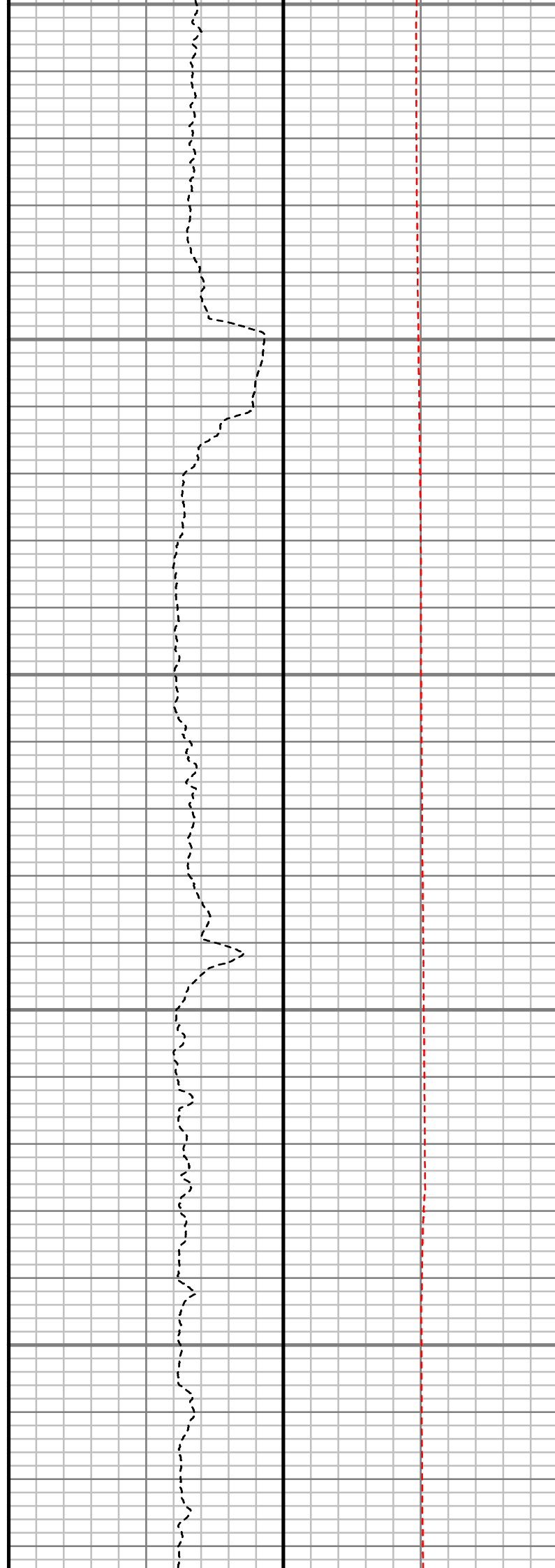
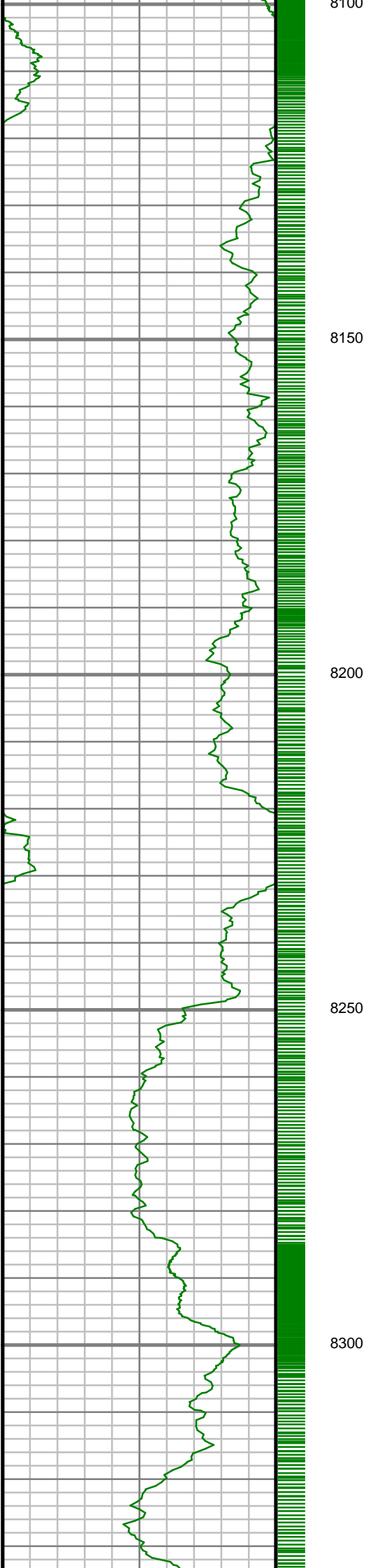
S: 83 MD: 7328.00 ft
Inc: 49.39 deg Az:
355.99 deg TVD:
7099.15 ft

S: 84 MD: 7375.00 ft
Inc: 55.92 deg Az:
357.12 deg TVD:
7127.65 ft



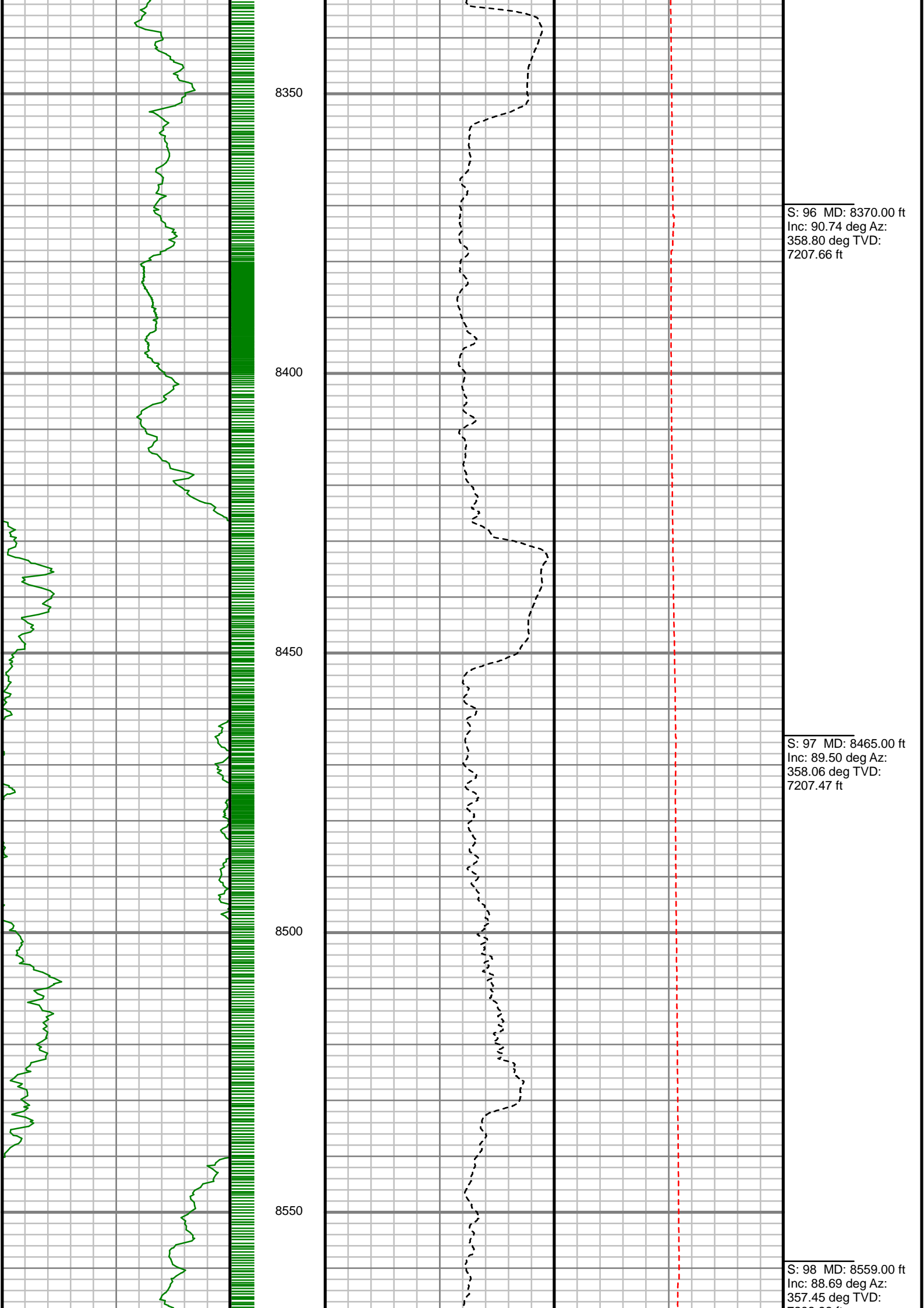


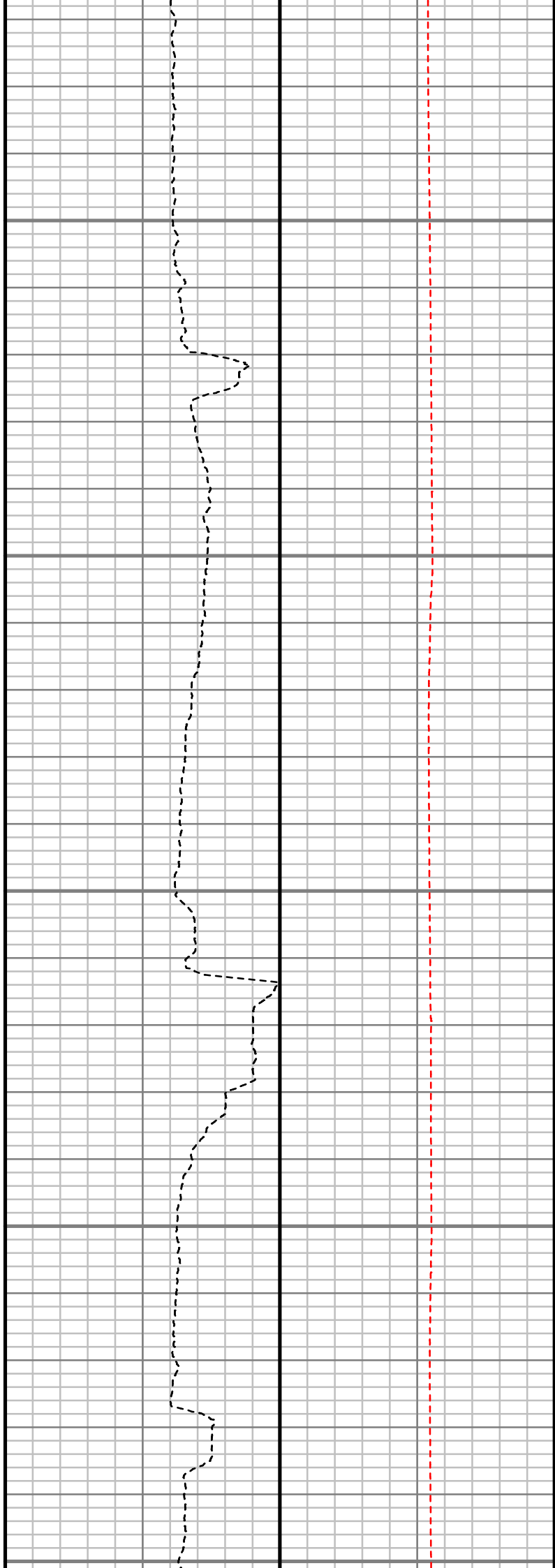
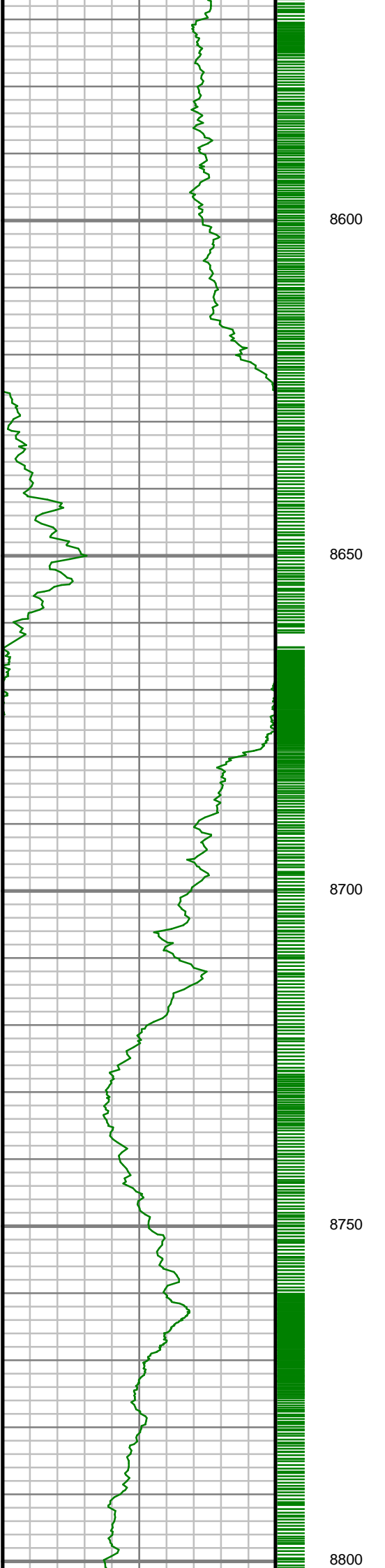




S: 94 MD: 8181.00 ft
Inc: 90.13 deg Az:
359.60 deg TVD:
7209.82 ft

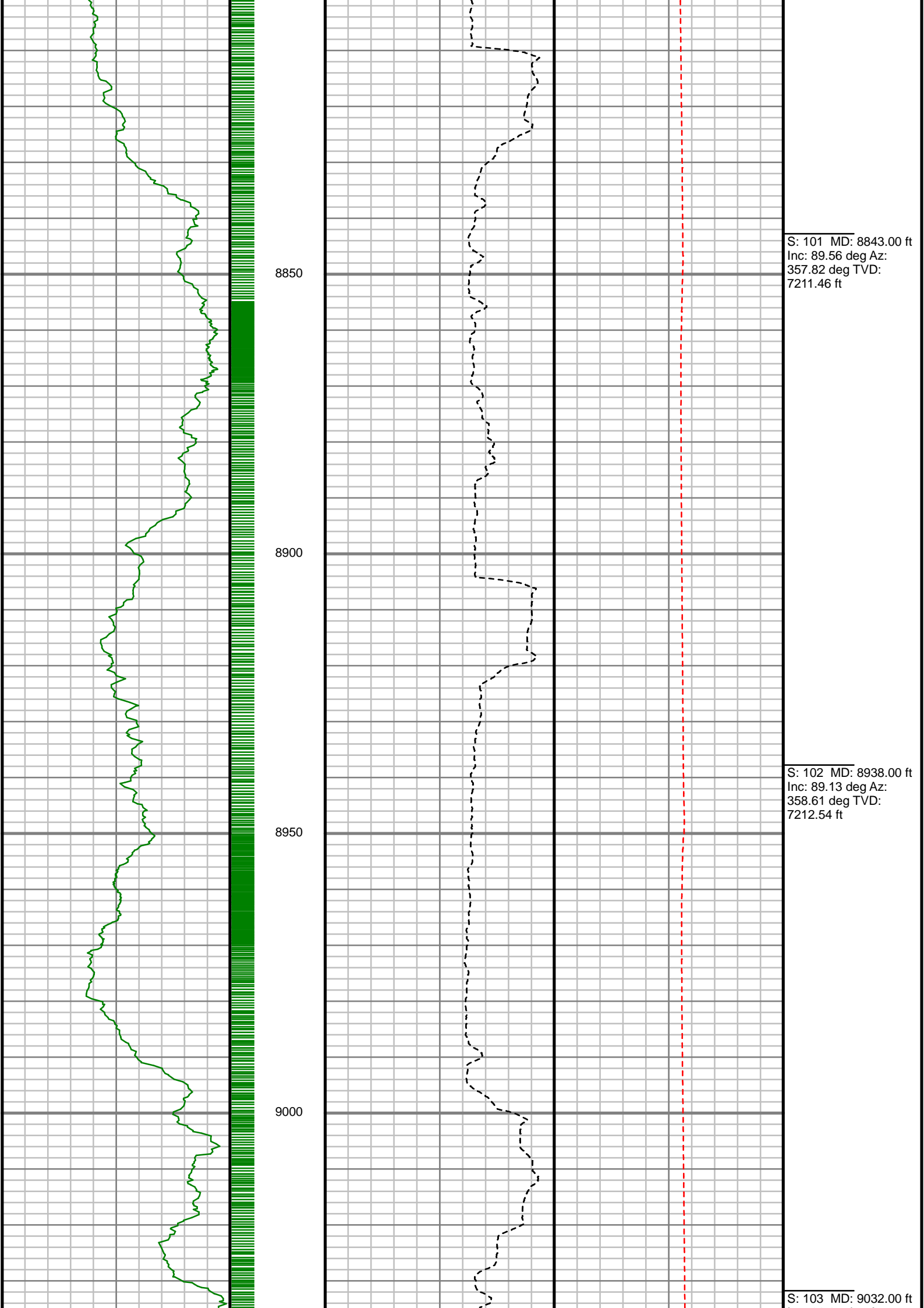
S: 95 MD: 8275.00 ft
Inc: 90.87 deg Az:
359.67 deg TVD:
7209.00 ft

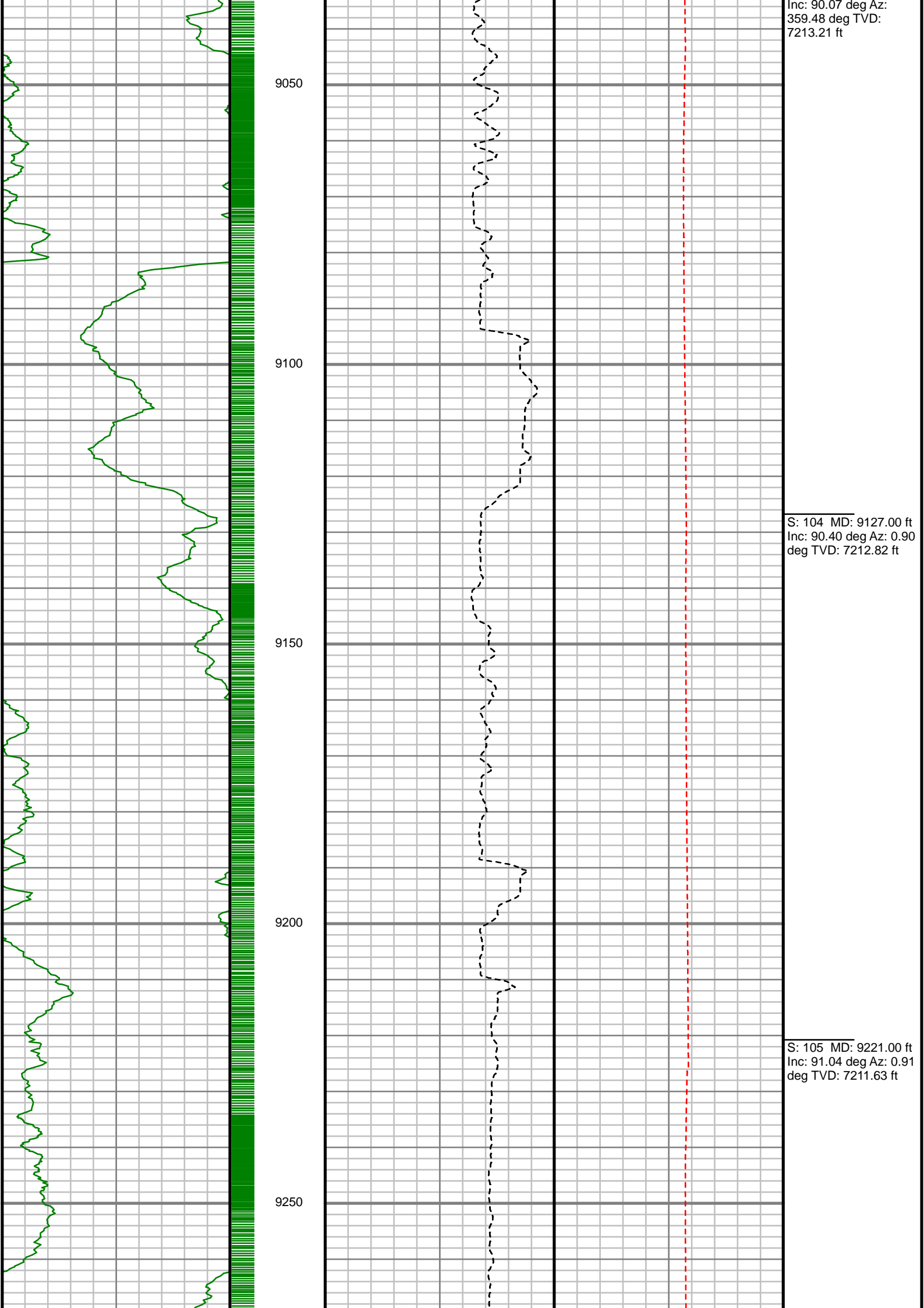


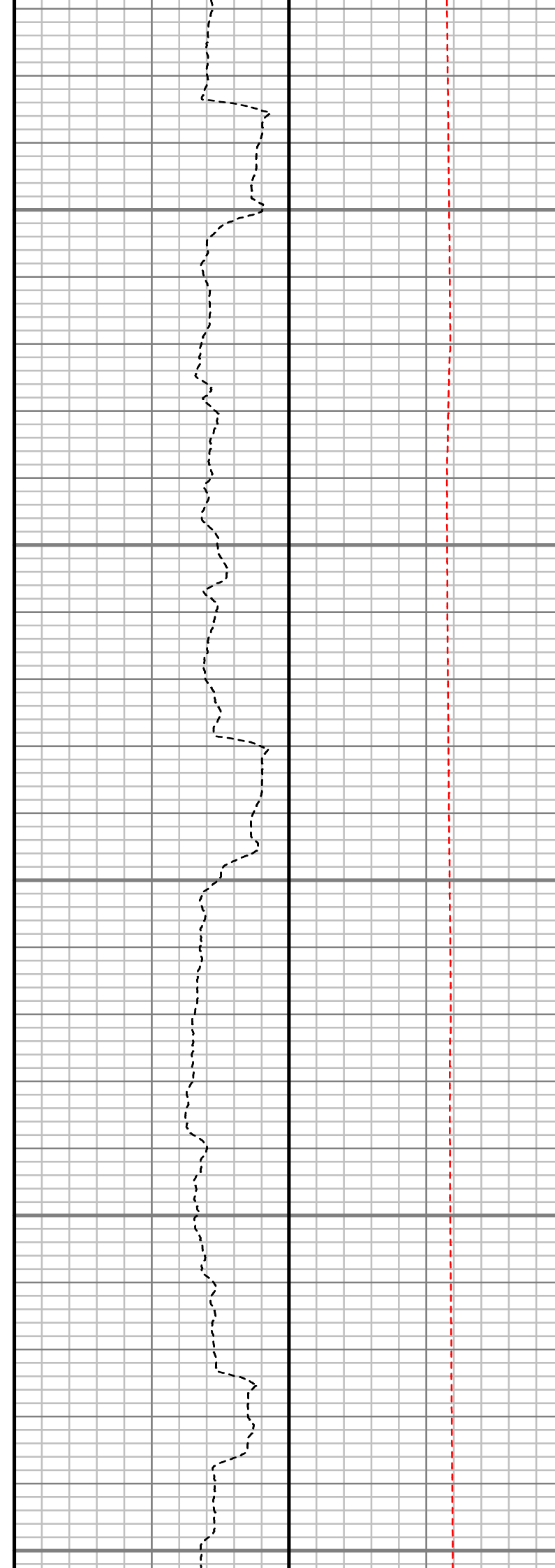
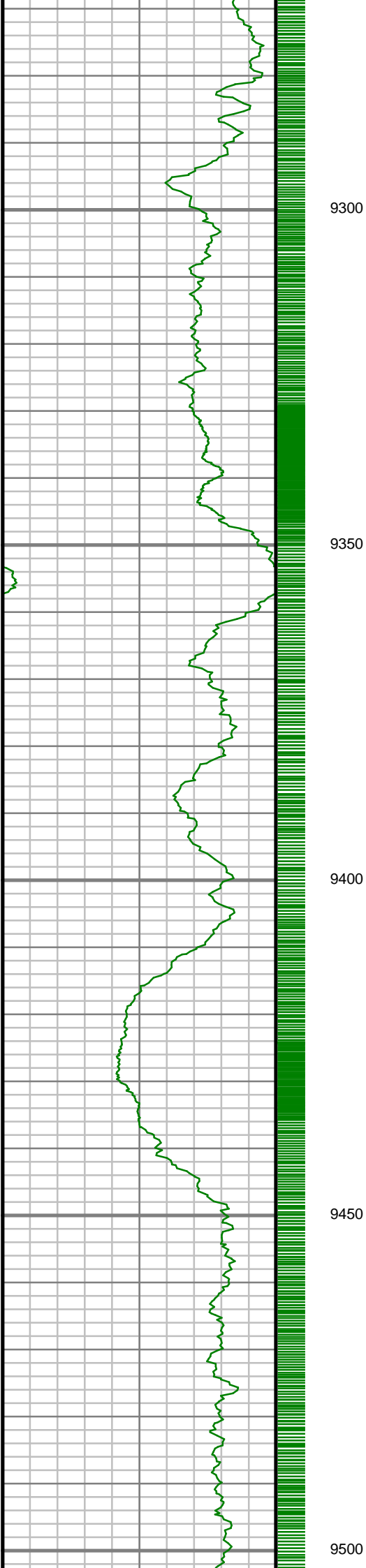


S: 99 MD: 8654.00 ft
Inc: 90.07 deg Az:
357.22 deg TVD:
7209.99 ft

S: 100 MD: 8748.00 ft
Inc: 89.29 deg Az:
356.86 deg TVD:
7210.51 ft

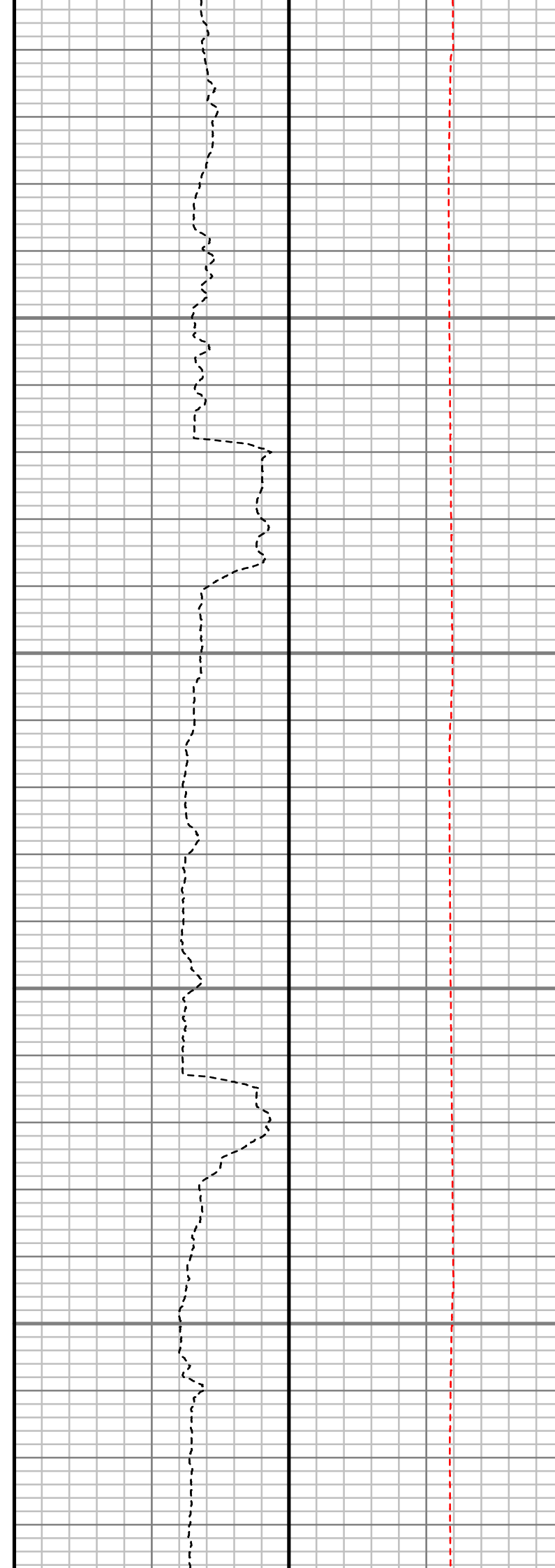
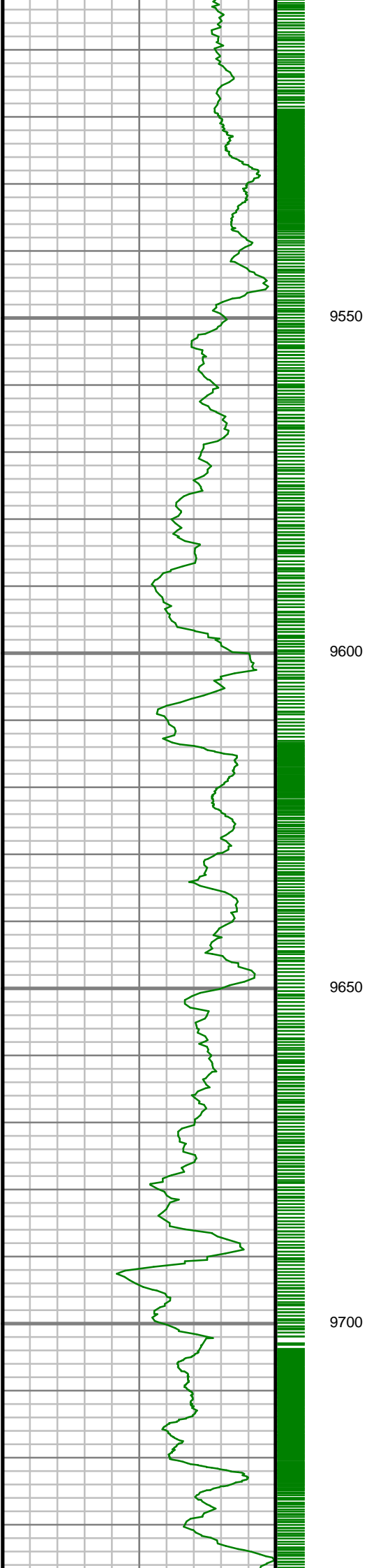






S: 106 MD: 9316.00 ft
Inc: 90.64 deg Az: 0.01
deg TVD: 7210.24 ft

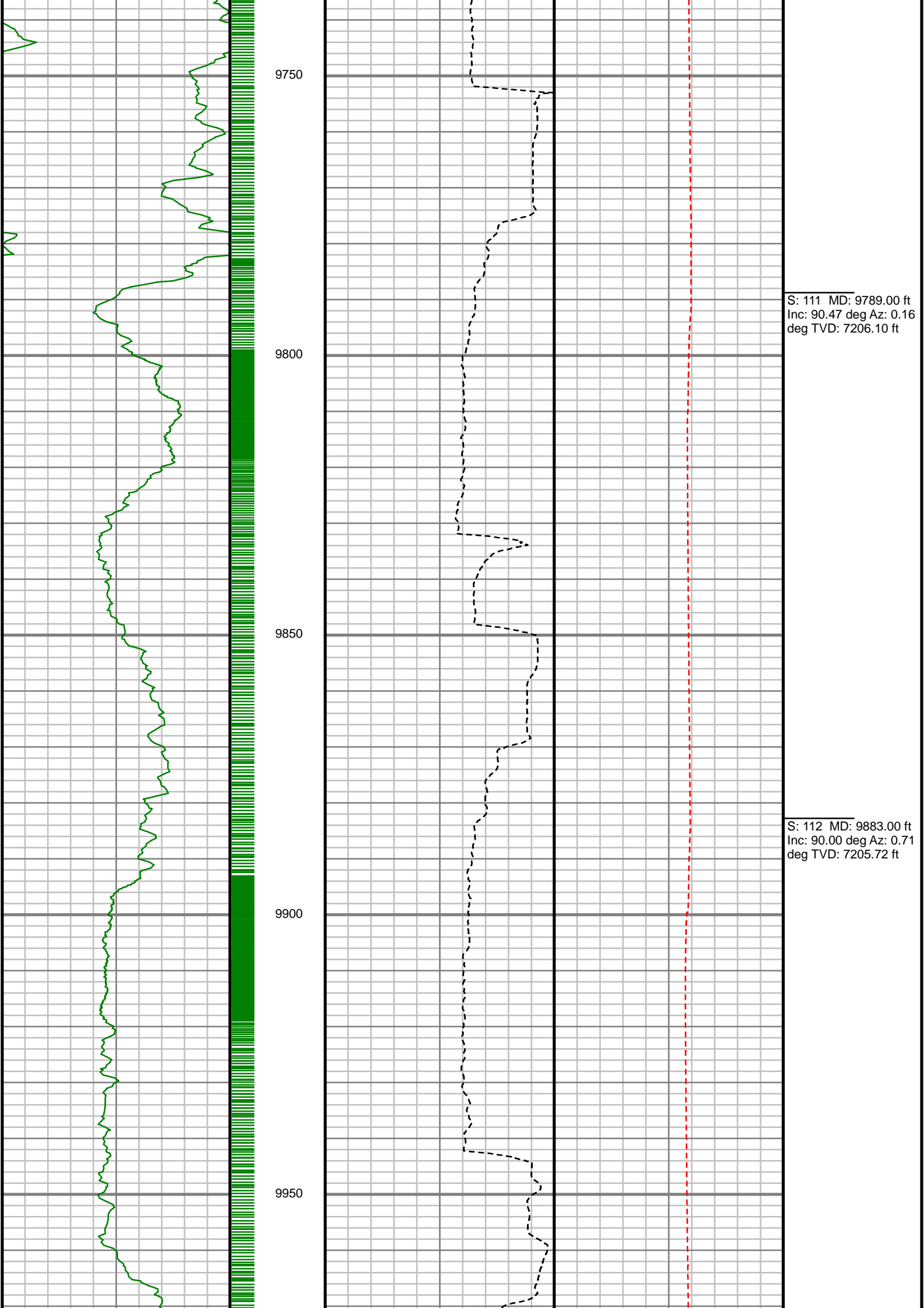
S: 107 MD: 9411.00 ft
Inc: 89.76 deg Az: 0.61
deg TVD: 7209.91 ft

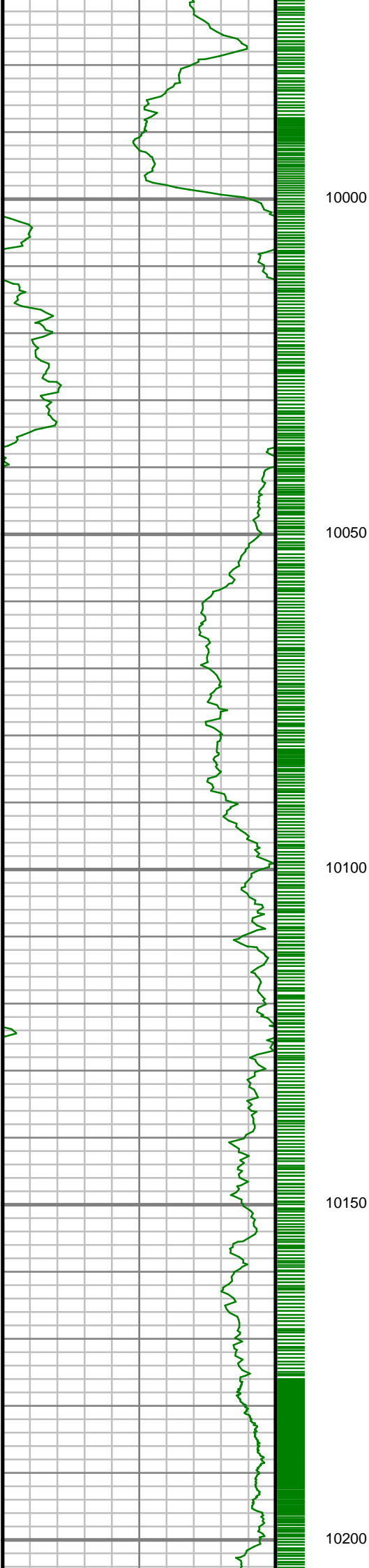


S: 108 MD: 9505.00 ft
Inc: 90.84 deg Az: 1.39
deg TVD: 7209.41 ft

S: 109 MD: 9599.00 ft
Inc: 90.17 deg Az: 0.44
deg TVD: 7208.58 ft

S: 110 MD: 9694.00 ft
Inc: 91.18 deg Az: 0.58
deg TVD: 7207.47 ft

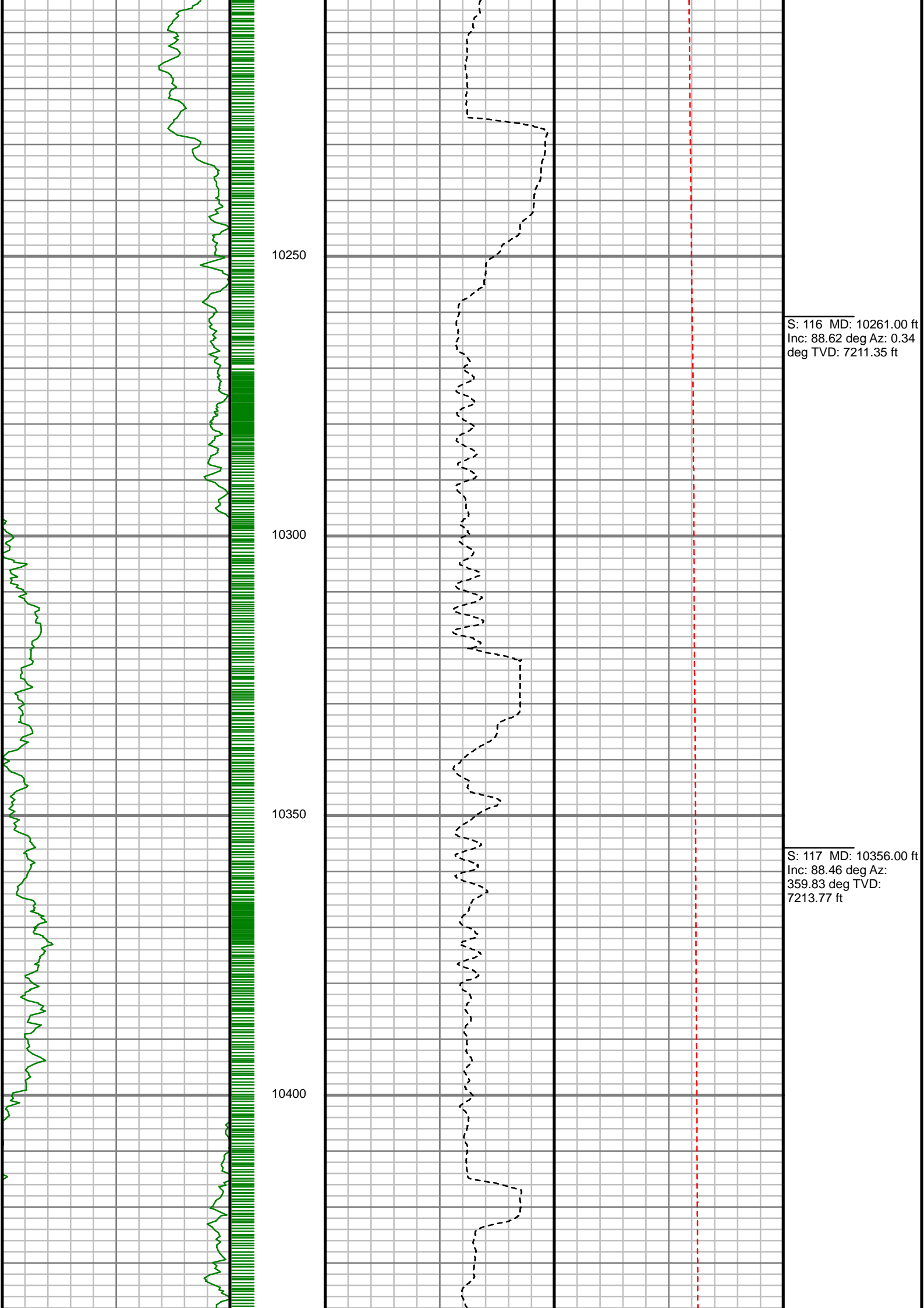


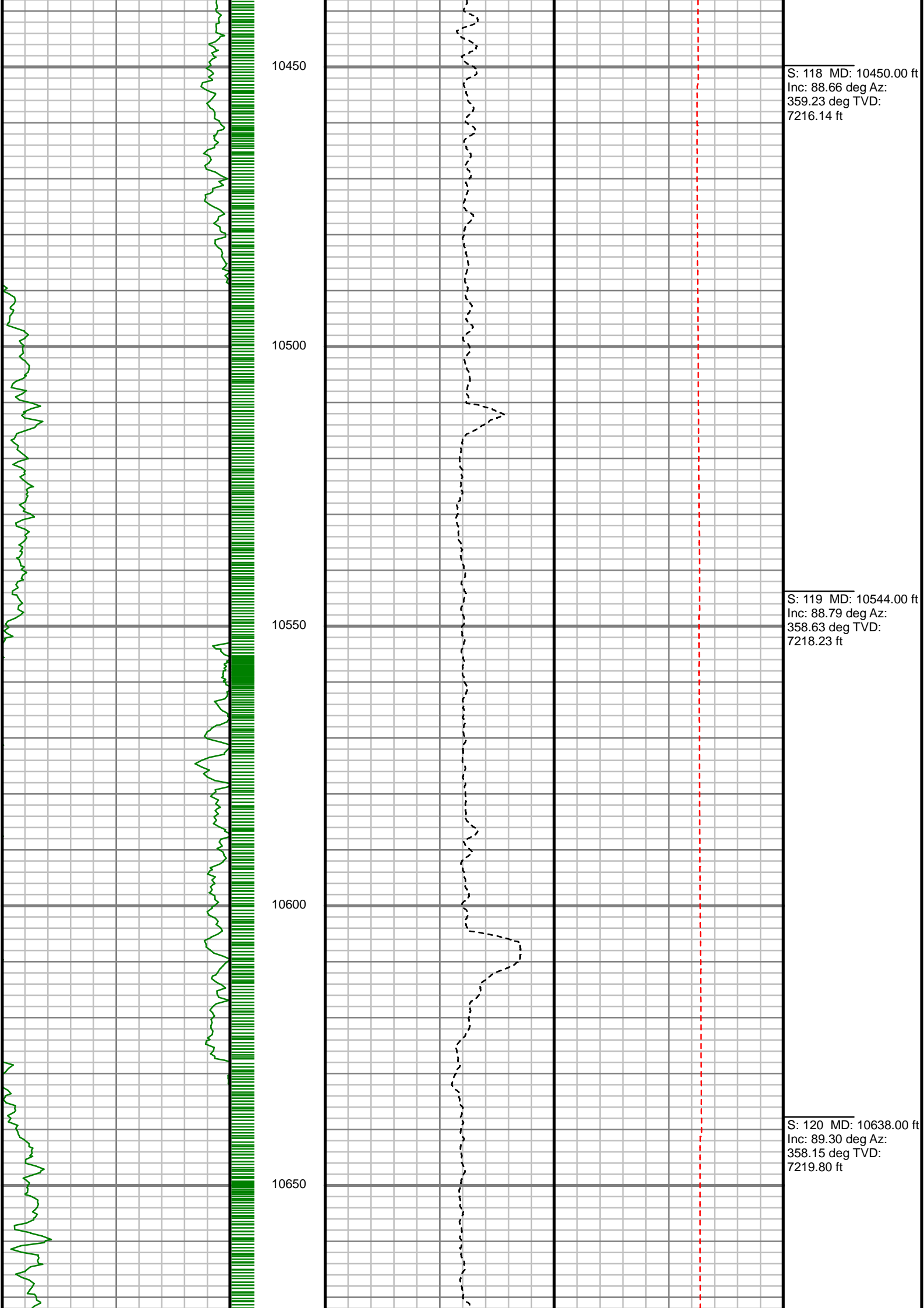


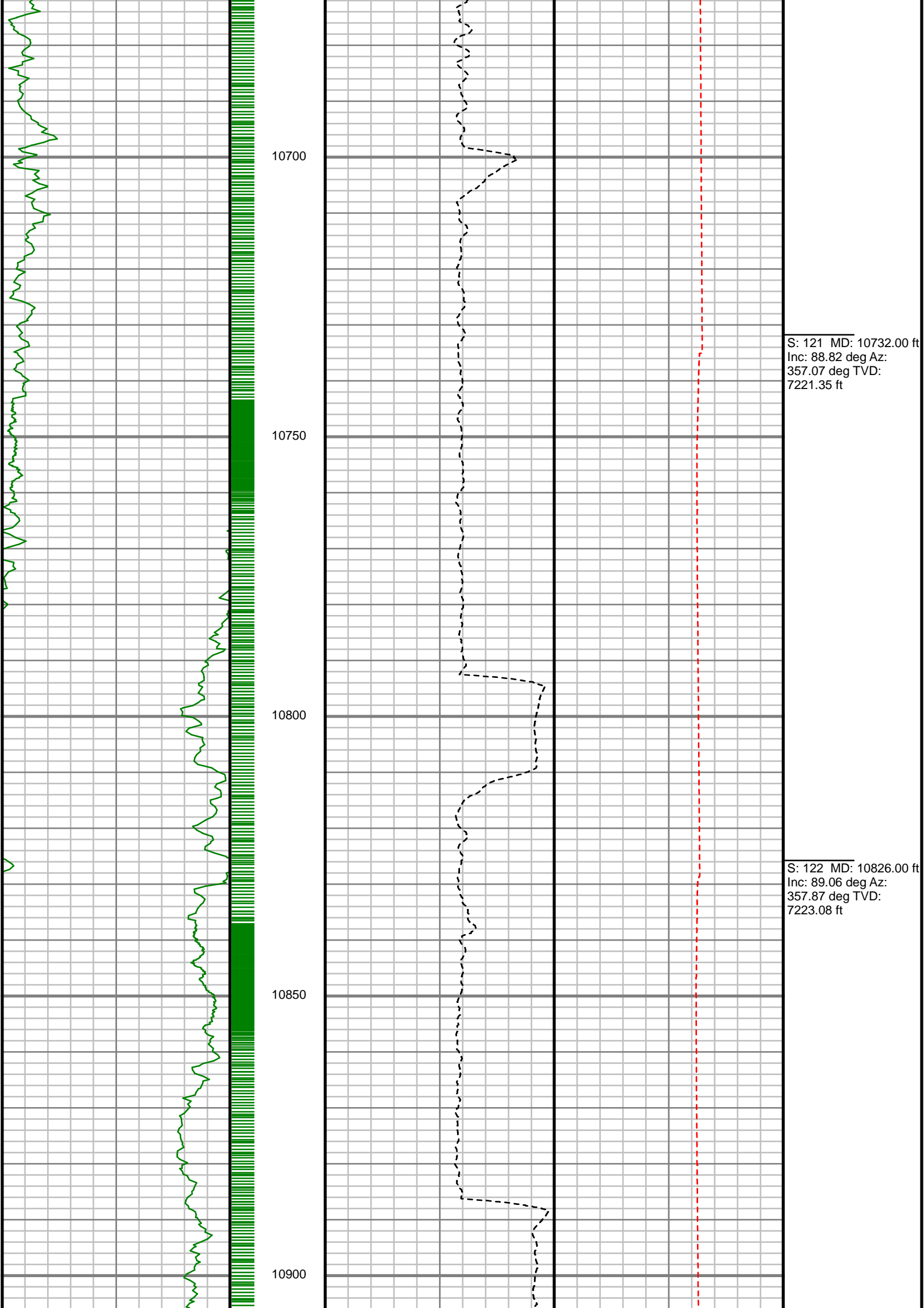
S: 113 MD: 9977.00 ft
Inc: 88.76 deg Az: 0.78
deg TVD: 7206.74 ft

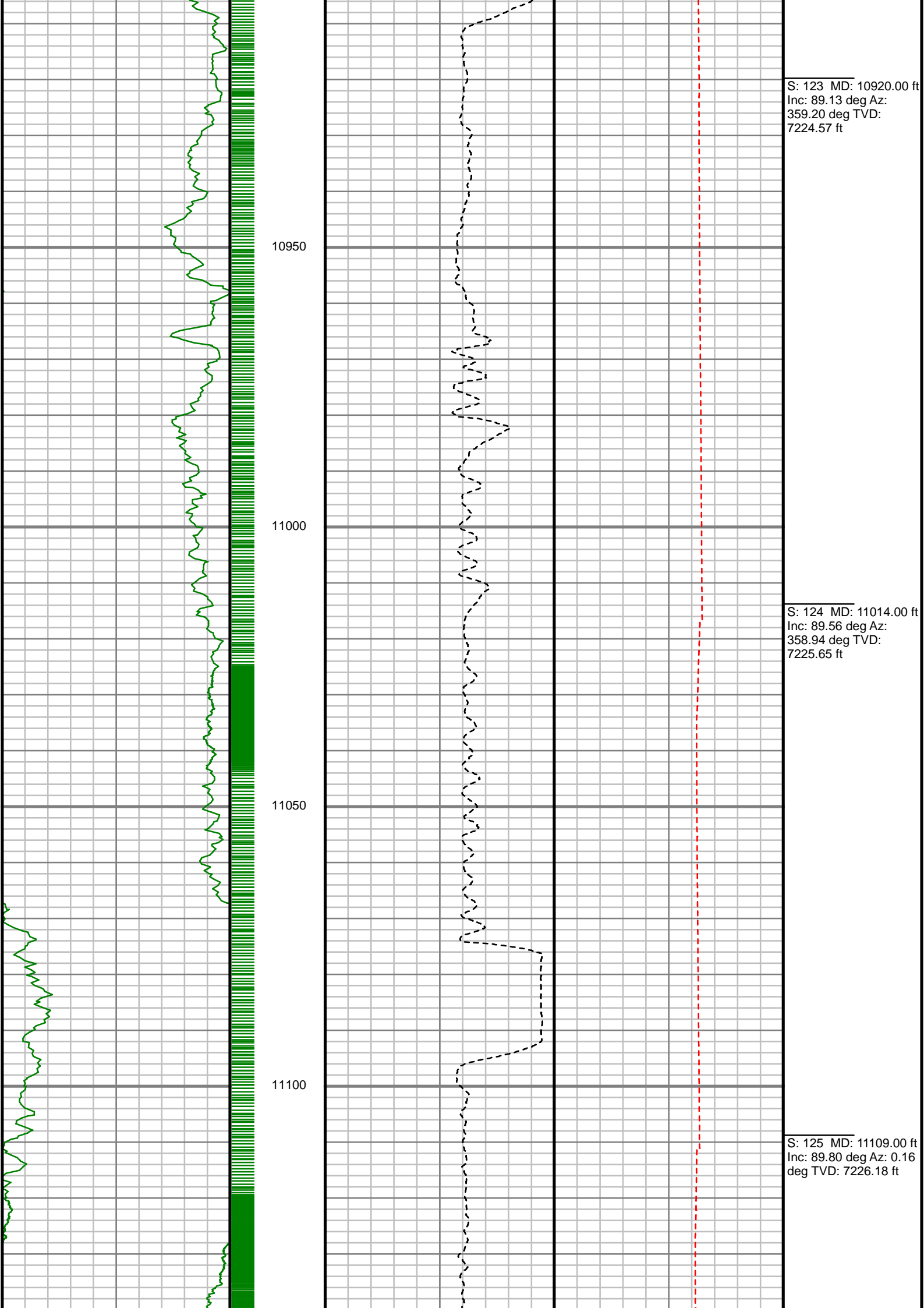
S: 114 MD: 10072.00 ft
Inc: 88.92 deg Az: 0.54
deg TVD: 7208.66 ft

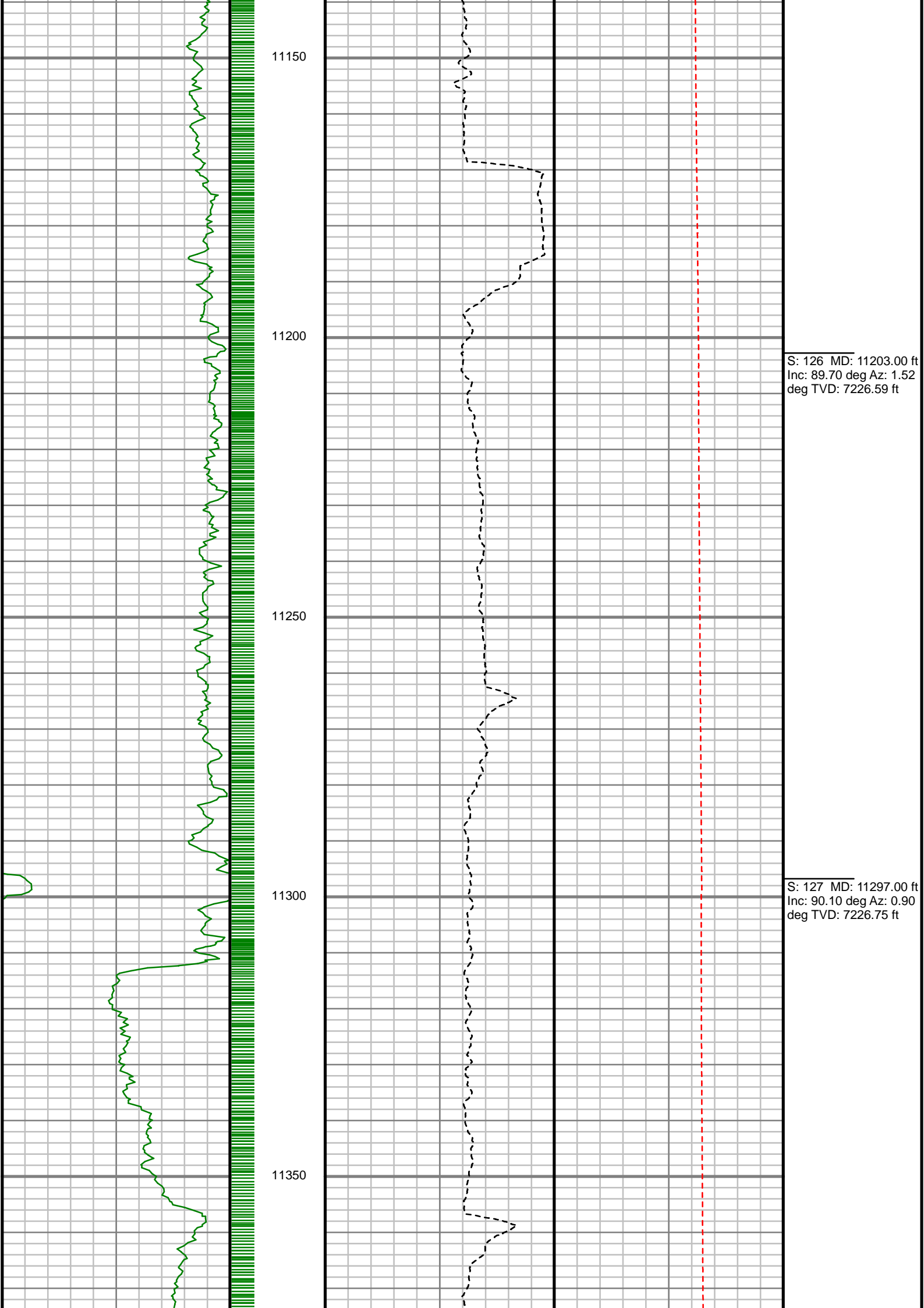
S: 115 MD: 10167.00 ft
Inc: 89.60 deg Az: 0.61
deg TVD: 7209.89 ft

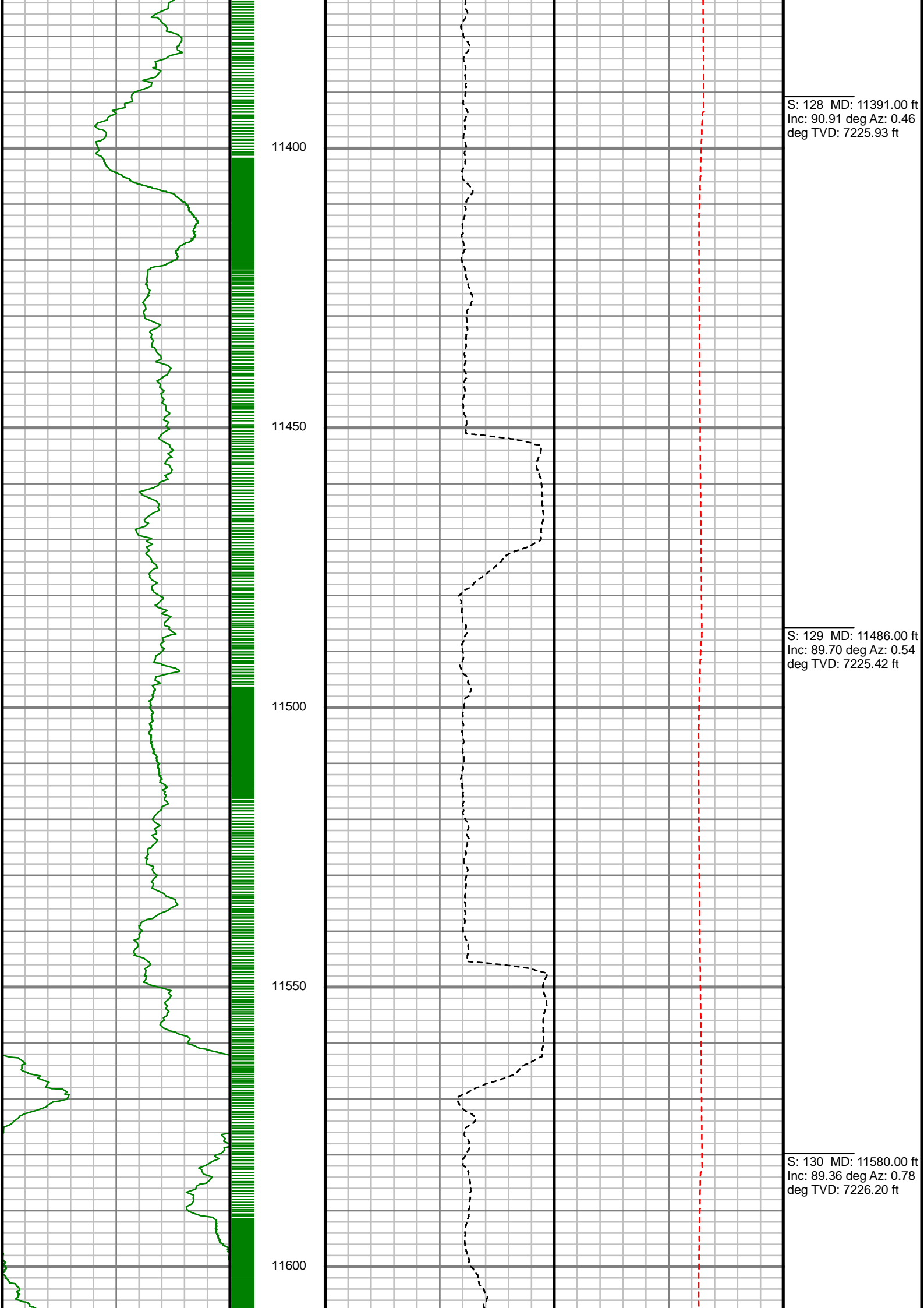


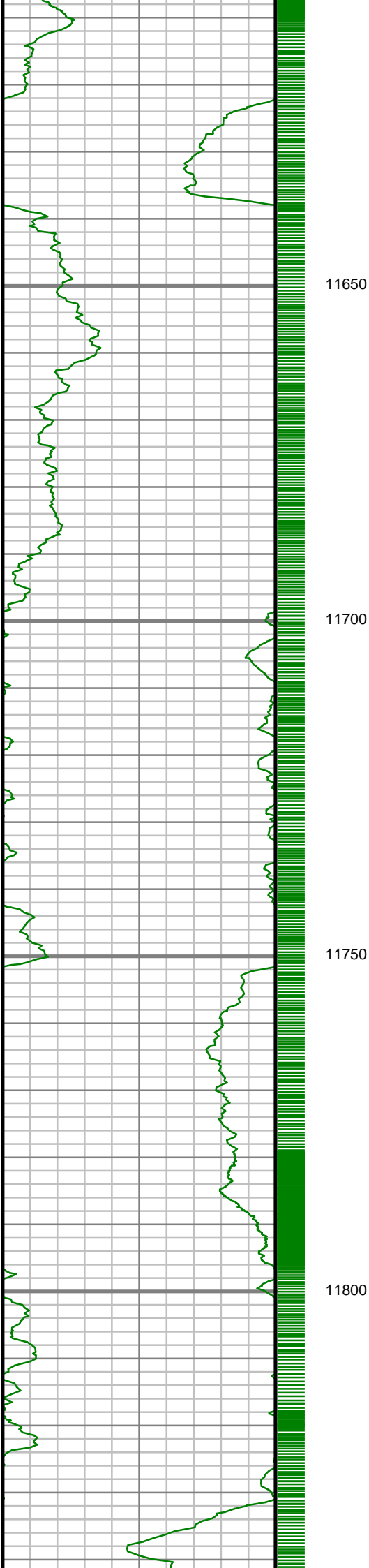










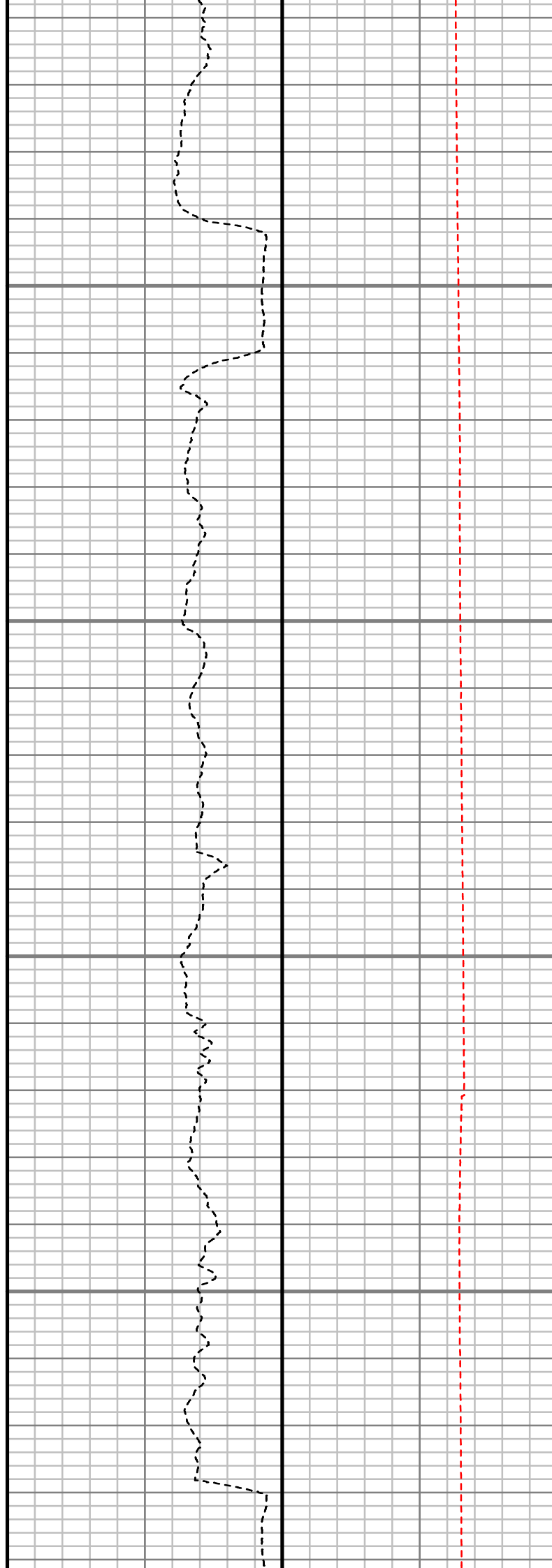


11650

11700

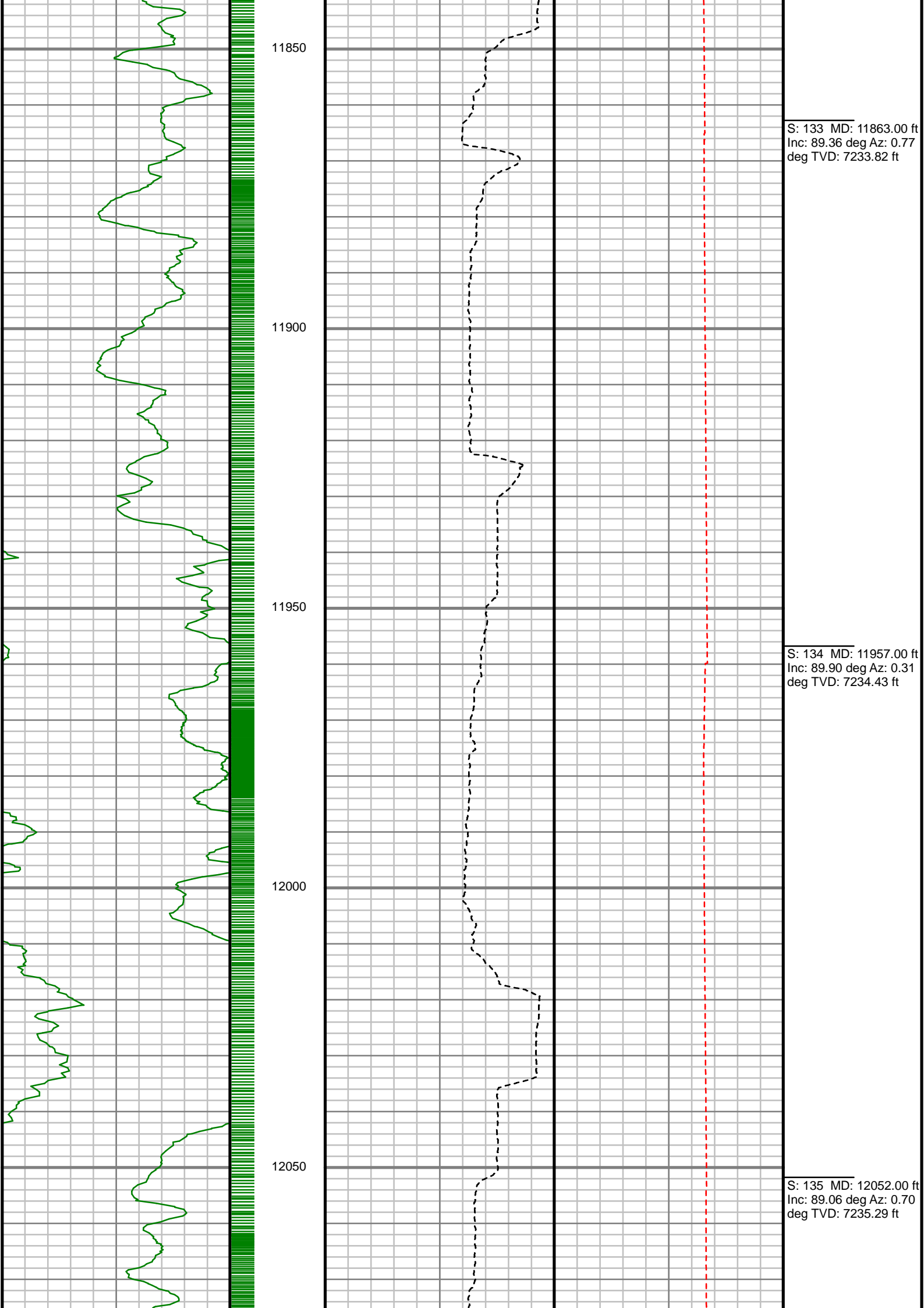
11750

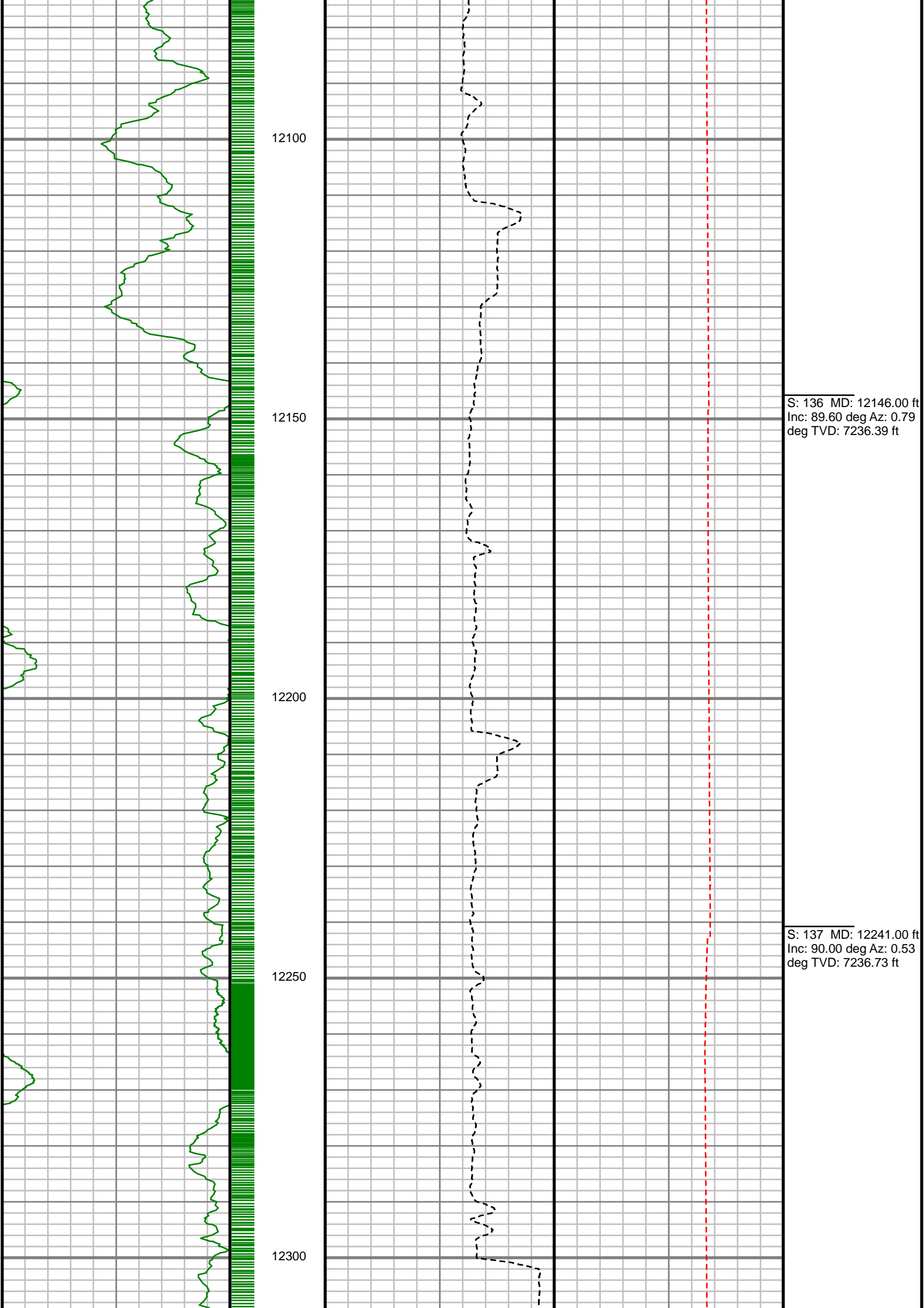
11800

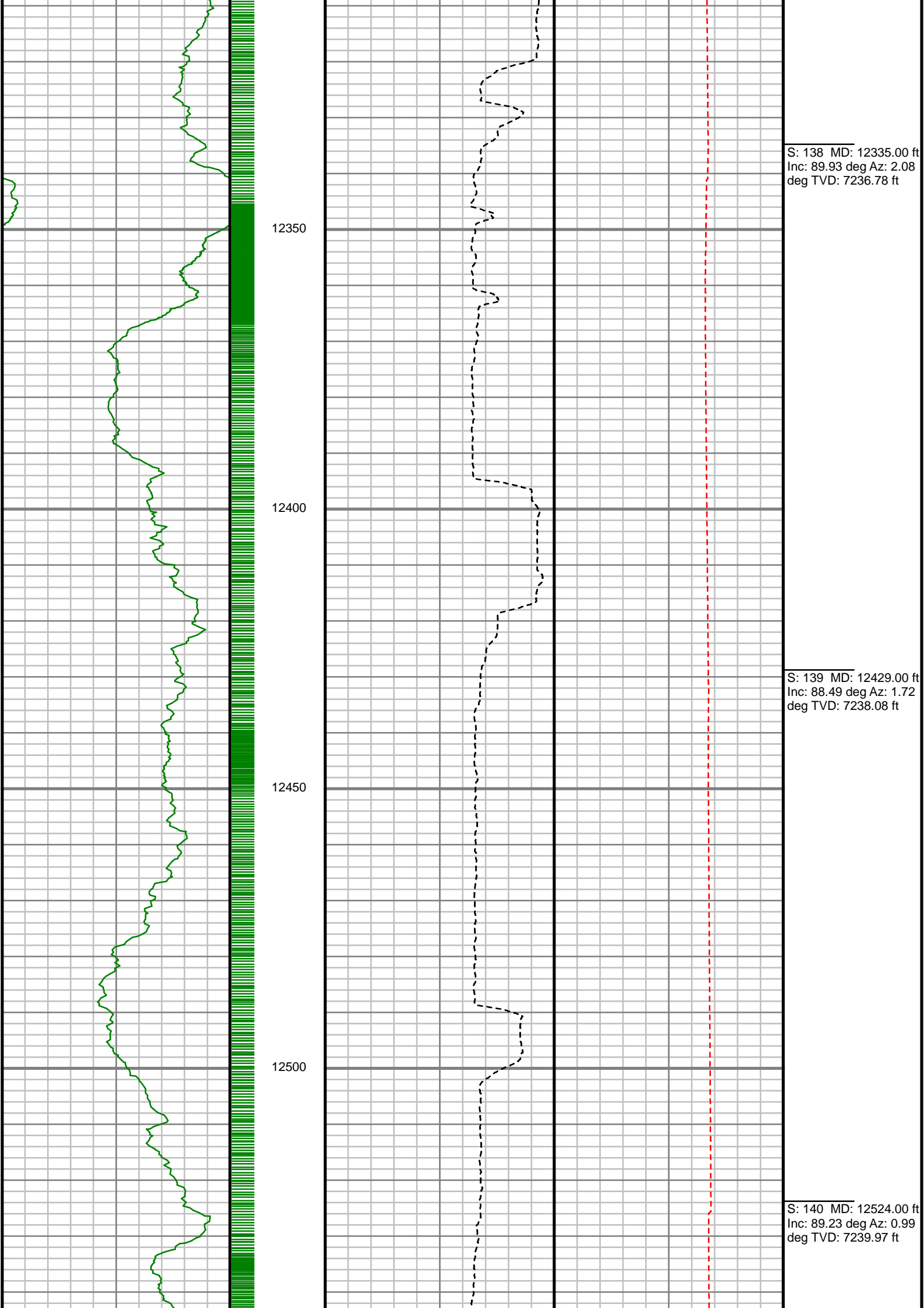


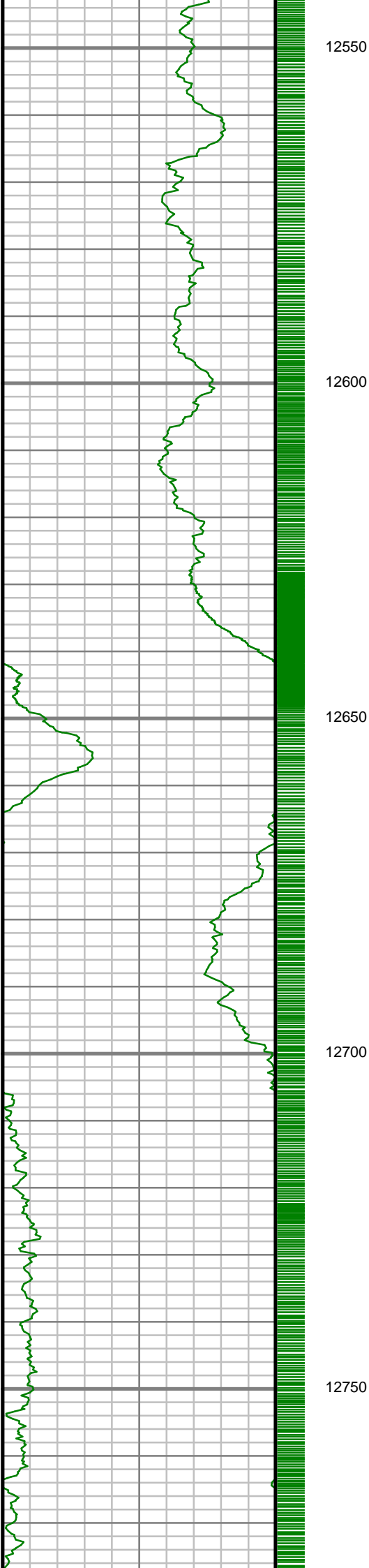
S: 131 MD: 11674.00 ft
Inc: 87.92 deg Az: 0.37
deg TVD: 7228.43 ft

S: 132 MD: 11768.00 ft
Inc: 88.08 deg Az:
359.91 deg TVD:
7231.71 ft









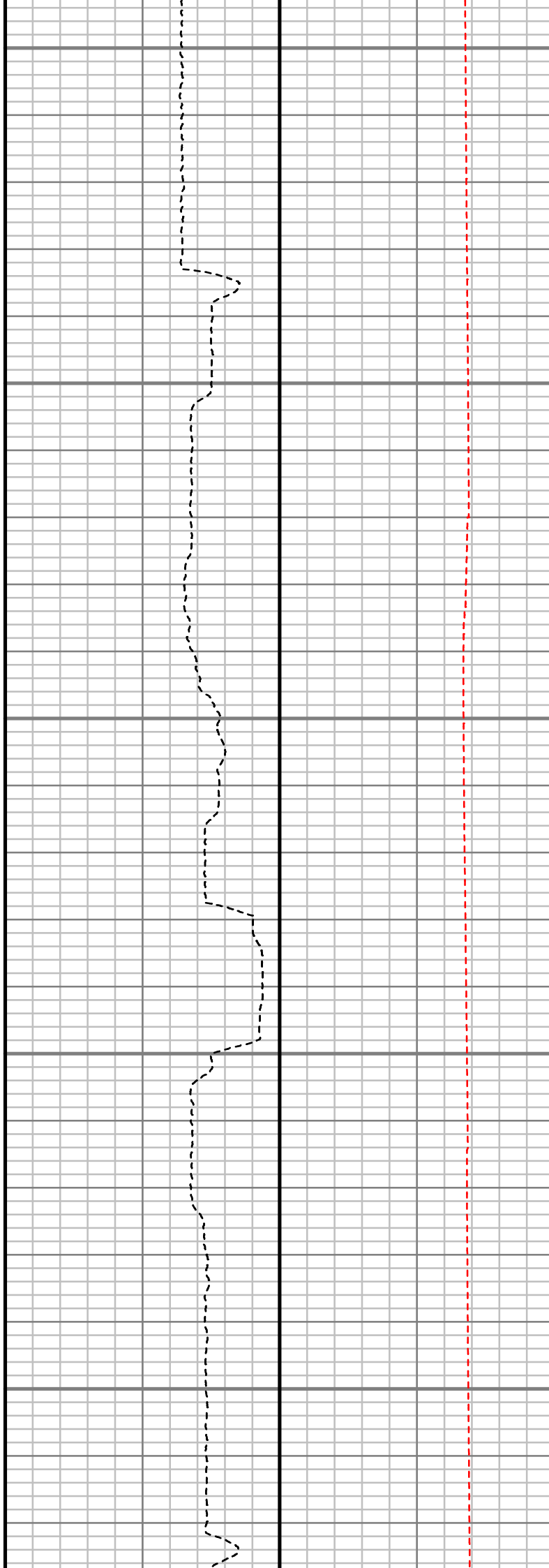
12550

12600

12650

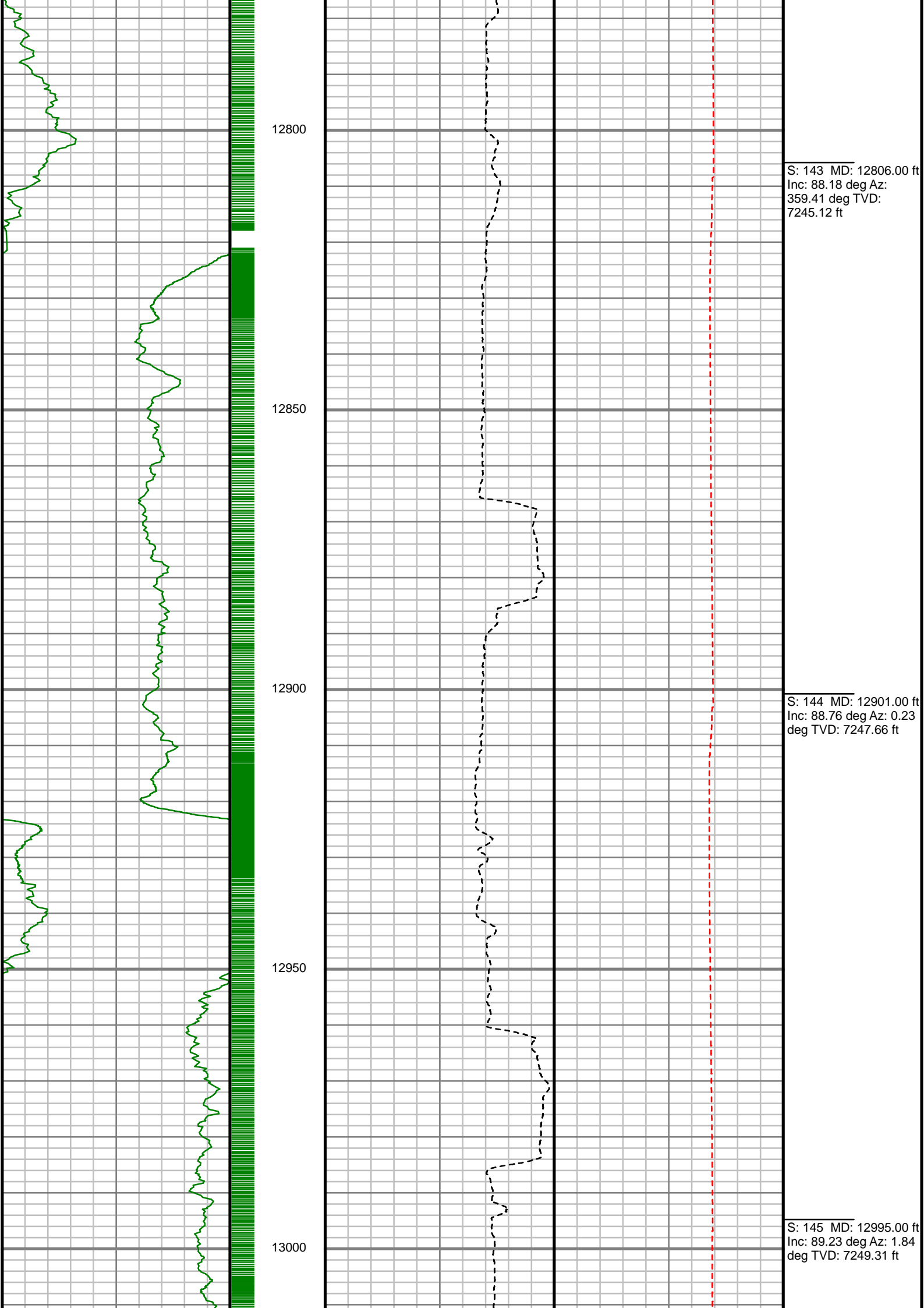
12700

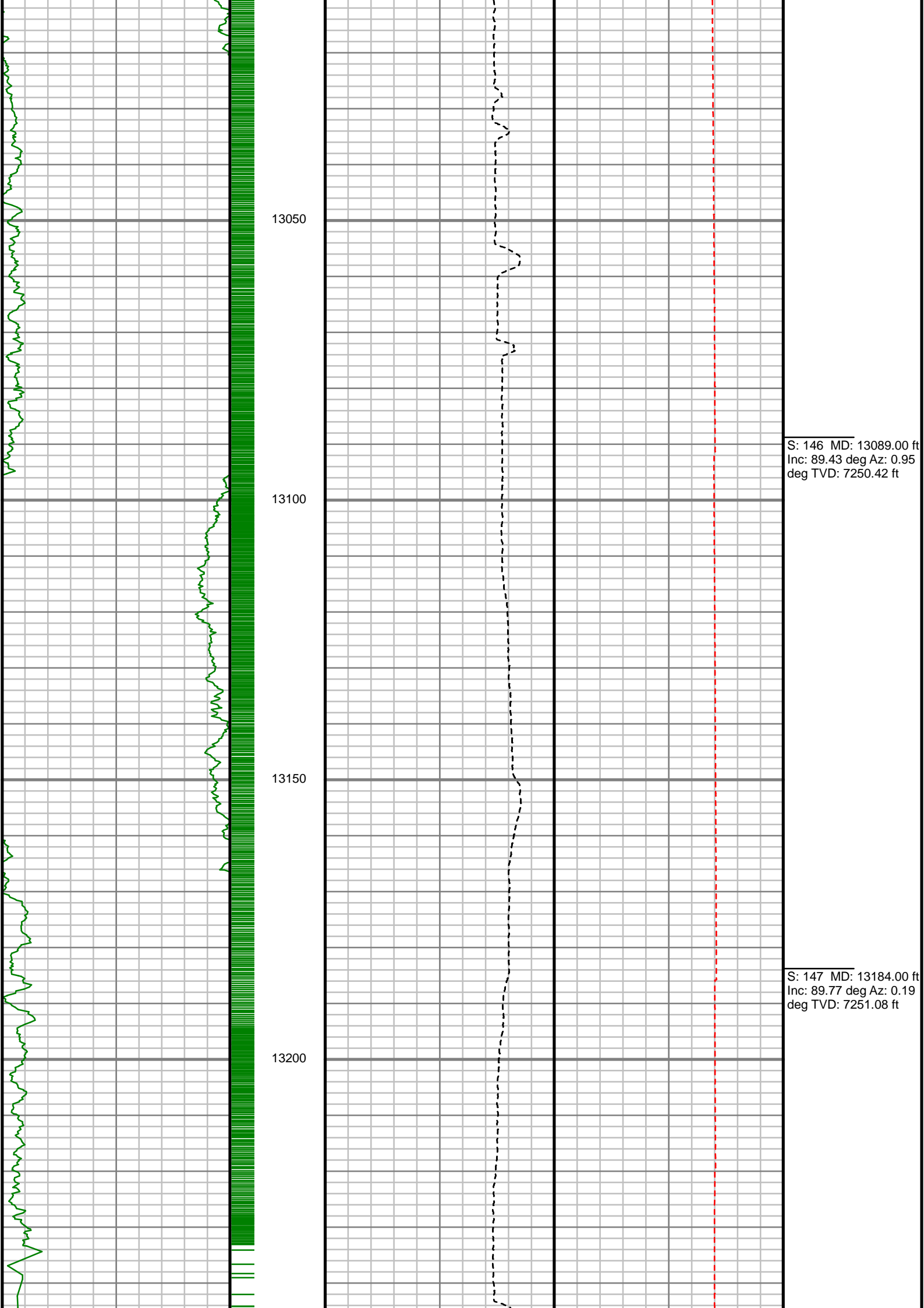
12750

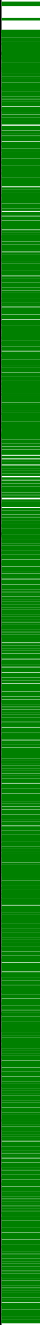
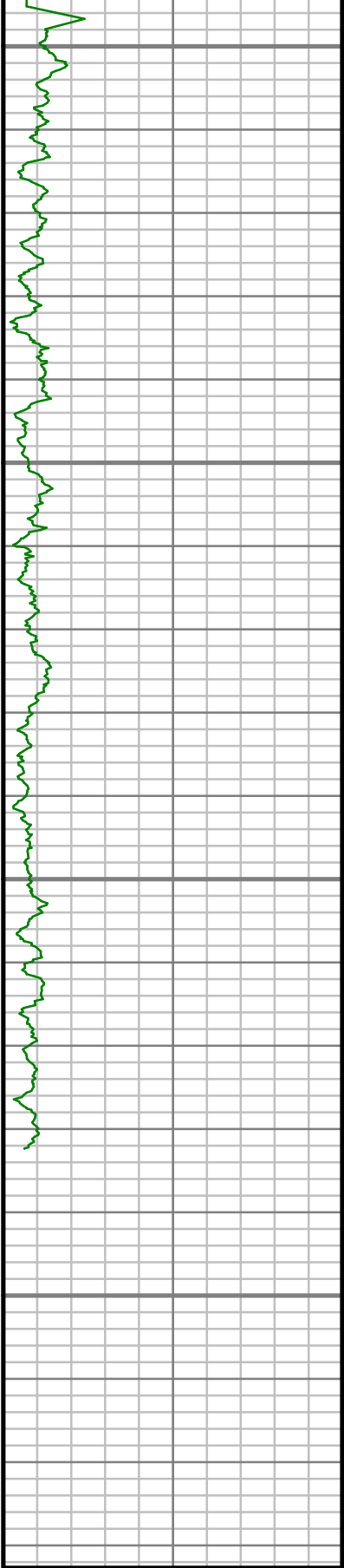


S: 141 MD: 12618.00 ft
Inc: 89.77 deg Az: 1.02
deg TVD: 7240.80 ft

S: 142 MD: 12712.00 ft
Inc: 88.39 deg Az:
359.92 deg TVD:
7242.31 ft







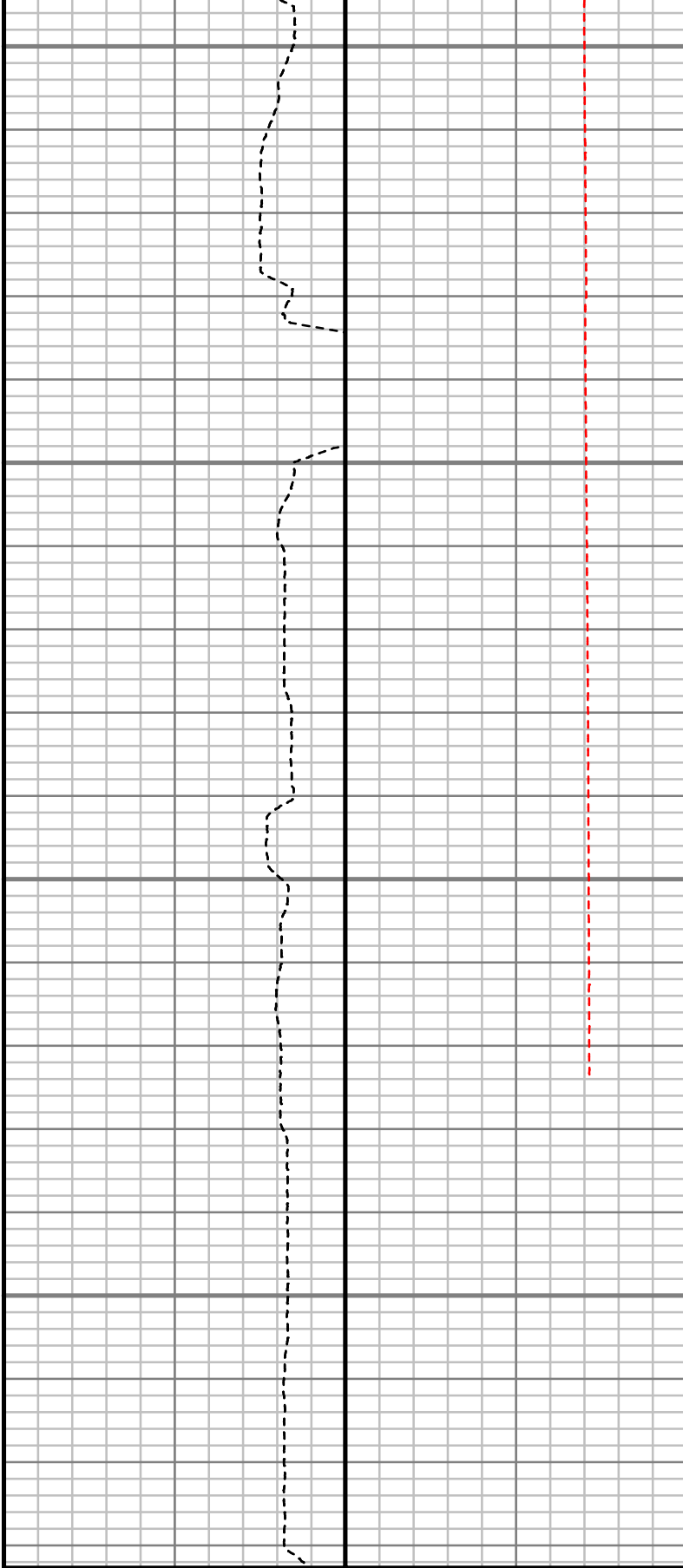
MEASURED DEPTH
1,240 (ft)

13250

13300

13350

13400



S: 148 MD: 13278.00 ft
Inc: 90.34 deg Az: 0.52
deg TVD: 7251.00 ft

S: 149 MD: 13372.00 ft
Inc: 90.07 deg Az: 0.22
deg TVD: 7250.67 ft

Gamma Ray (GR)		
150	Unit = aapi	300

Rate of Penetration (ROP)		
1000	Unit = ft/hr	0

Tool Temperature (T-TEMP)		
50	Unit = °F	300

Comments

Well Location	GOODIN PAD
Well Name	GOODIN 37N-C6HZ
Survey Date	2/15/2015
Latitude	40°3'35.442"N
Longitude	104°42'8.672"W
Btotal	52647, 52698, 52750 nT
Dip	66.48, 66.51, 66.54 deg
Magnetic Declination	8.06, 8.08, 8.14 deg
North Reference	True North
Grid Correction	None
Depth Reference	RKB (25.00 ft)
Calculation Method	Minimum Curvature
Section (VS) Ref	0.00N (ft), 0.00E (ft), 359.89Azim (deg)
Operator(s)	C. COLLINGS, S. NAJAD, S. WAXLER

Well Notes
SURVEYS FROM 0 FT. TO 1561 FT. WERE ACQUIRED BY CATHEDRAL MWD.
SURVEYS FROM 1634 FT. TO 13372 FT. WERE ACQUIRED BY SCIENTIFIC DRILLING INTERNATIONAL MWD.

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft	Course Length ft
0.00	0.00	334.30	0.00	0.00	0.00	0.00	Invalid	Invalid
25.00	0.00	334.30	25.00	0.00	0.00	0.00	0.00	25.00
101.00	0.20	334.30	101.00	0.12	0.12	-0.06	0.26	76.00
179.00	0.30	330.10	179.00	0.42	0.42	-0.22	0.13	78.00
257.00	0.30	349.70	257.00	0.80	0.80	-0.36	0.13	78.00
338.00	0.30	11.20	338.00	1.21	1.21	-0.35	0.14	81.00
418.00	0.50	351.50	418.00	1.77	1.76	-0.36	0.30	80.00
498.00	0.30	343.20	497.99	2.31	2.31	-0.48	0.26	80.00
578.00	0.30	23.60	577.99	2.70	2.70	-0.45	0.26	80.00
658.00	0.50	125.80	657.99	2.69	2.69	-0.09	0.79	80.00
738.00	0.40	132.70	737.99	2.30	2.30	0.40	0.14	80.00
818.00	0.50	125.10	817.99	1.90	1.91	0.89	0.15	80.00
898.00	0.60	145.20	897.98	1.36	1.36	1.42	0.27	80.00
978.00	0.70	136.60	977.98	0.66	0.66	1.99	0.17	80.00
1058.00	0.40	76.40	1057.97	0.37	0.37	2.60	0.76	80.00
1138.00	0.40	52.70	1137.97	0.60	0.61	3.09	0.21	80.00
1218.00	0.30	231.70	1217.97	0.64	0.65	3.15	0.87	80.00
1298.00	0.20	298.70	1297.97	0.58	0.59	2.86	0.36	80.00
1378.00	0.10	205.00	1377.97	0.58	0.59	2.71	0.29	80.00

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft	Course Length ft
1458.00	0.10	300.00	1457.97	0.56	0.56	2.62	0.18	80.00
1538.00	0.10	142.50	1537.97	0.54	0.54	2.60	0.25	80.00
1561.00	0.10	123.60	1560.97	0.51	0.51	2.63	0.14	23.00
1634.00	0.67	345.07	1633.97	0.89	0.89	2.58	1.03	73.00
1726.00	1.50	217.11	1725.96	0.45	0.45	1.71	2.16	92.00
1818.00	3.68	191.63	1817.86	-3.40	-3.40	0.39	2.62	92.00
1910.00	5.77	182.81	1909.55	-10.90	-10.90	-0.43	2.40	92.00
2003.00	7.88	173.22	2001.89	-21.90	-21.90	0.09	2.57	93.00
2097.00	8.84	157.27	2094.90	-34.97	-34.96	3.64	2.66	94.00
2191.00	10.61	153.19	2187.54	-49.37	-49.35	10.34	2.02	94.00
2286.00	12.41	153.98	2280.63	-66.37	-66.33	18.76	1.90	95.00
2380.00	14.13	154.89	2372.12	-85.85	-85.80	28.06	1.84	94.00
2475.00	15.06	150.42	2464.05	-107.10	-107.03	39.07	1.54	95.00
2569.00	15.42	147.53	2554.75	-128.29	-128.19	51.81	0.89	94.00
2664.00	17.02	149.09	2645.97	-150.91	-150.78	65.73	1.75	95.00
2758.00	18.00	156.40	2735.62	-176.05	-175.89	78.62	2.56	94.00
2852.00	19.48	156.26	2824.64	-203.72	-203.55	90.74	1.58	94.00
2947.00	20.85	160.70	2913.82	-234.20	-234.01	102.70	2.16	95.00

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft	Course Length ft
3041.00	22.52	159.46	3001.16	-266.87	-266.65	114.55	1.84	94.00
3135.00	24.05	155.39	3087.51	-301.17	-300.92	128.84	2.36	94.00
3230.00	25.44	156.98	3173.79	-337.58	-337.30	144.88	1.62	95.00
3324.00	25.44	153.80	3258.68	-374.31	-374.00	161.69	1.45	94.00
3418.00	25.81	151.13	3343.44	-410.38	-410.04	180.48	1.29	94.00
3512.00	25.26	152.67	3428.26	-446.15	-445.77	199.56	0.92	94.00
3607.00	25.02	153.42	3514.26	-482.15	-481.74	217.86	0.42	95.00
3701.00	22.72	156.01	3600.22	-516.55	-516.10	234.13	2.69	94.00
3796.00	24.31	153.51	3687.33	-550.85	-550.37	250.32	1.98	95.00
3936.00	27.13	158.14	3813.46	-606.33	-605.81	275.06	2.47	140.00
4078.00	24.19	154.27	3941.45	-662.65	-662.08	299.75	2.38	142.00
4172.00	23.53	154.56	4027.42	-696.98	-696.37	316.17	0.71	94.00
4266.00	21.08	155.25	4114.38	-729.31	-728.68	331.31	2.62	94.00
4360.00	20.66	153.54	4202.21	-759.54	-758.88	345.77	0.79	94.00
4454.00	19.14	154.56	4290.59	-788.33	-787.64	359.78	1.66	94.00
4643.00	14.11	152.05	4471.64	-836.74	-836.00	383.90	2.69	189.00
4737.00	12.28	148.01	4563.16	-855.36	-854.60	394.57	2.18	94.00
4831.00	10.00	143.51	4655.38	-870.42	-869.65	404.72	2.59	94.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
4925.00	7.61	143.28	4748.26	-882.00	-881.20	413.30	2.54	94.00
5019.00	6.82	137.51	4841.52	-891.12	-890.31	420.80	1.14	94.00
5114.00	4.27	138.19	4936.07	-897.93	-897.11	426.97	2.69	95.00
5208.00	2.57	144.06	5029.90	-902.26	-901.43	430.54	1.84	94.00
5302.00	1.35	93.65	5123.85	-904.04	-903.21	432.89	2.13	94.00
5396.00	0.38	301.95	5217.84	-903.95	-903.12	433.73	1.80	94.00
5491.00	0.23	308.25	5312.84	-903.67	-902.84	433.32	0.16	95.00
5585.00	0.37	304.10	5406.84	-903.38	-902.55	432.92	0.16	94.00
5773.00	0.63	304.13	5594.83	-902.45	-901.62	431.55	0.14	188.00
5961.00	0.83	292.32	5782.81	-901.35	-900.52	429.44	0.13	188.00
6055.00	1.05	317.25	5876.80	-900.46	-899.64	428.22	0.49	94.00
6150.00	0.33	338.12	5971.79	-899.56	-898.74	427.53	0.78	95.00
6244.00	0.17	321.21	6065.79	-899.20	-898.39	427.34	0.19	94.00
6338.00	0.09	71.22	6159.79	-899.07	-898.25	427.33	0.23	94.00
6432.00	0.07	37.80	6253.79	-899.00	-898.18	427.44	0.06	94.00
6526.00	0.51	268.65	6347.79	-898.97	-898.15	427.05	0.59	94.00
6621.00	0.66	274.55	6442.79	-898.93	-898.12	426.08	0.17	95.00
6684.00	0.80	271.91	6505.78	-898.89	-898.07	425.28	0.22	63.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
6715.00	0.91	258.94	6536.78	-898.93	-898.11	424.83	0.72	31.00
6762.00	2.60	347.10	6583.76	-897.96	-897.15	424.22	5.80	47.00
6810.00	7.59	5.04	6631.56	-893.74	-892.92	424.26	10.80	48.00
6904.00	13.55	0.32	6723.92	-876.53	-875.71	424.87	6.40	94.00
6998.00	19.44	345.28	6814.05	-850.34	-849.53	420.95	7.70	94.00
7093.00	23.18	349.22	6902.55	-816.65	-815.86	413.43	4.21	95.00
7140.00	25.02	351.58	6945.45	-797.73	-796.94	410.24	4.42	47.00
7187.00	26.39	350.55	6987.80	-777.59	-776.81	407.07	3.07	47.00
7234.00	32.56	350.41	7028.69	-754.79	-754.01	403.25	13.13	47.00
7281.00	41.47	353.28	7066.19	-726.79	-726.03	399.31	19.32	47.00
7328.00	49.39	355.99	7099.15	-693.48	-692.72	396.23	17.33	47.00
7375.00	55.92	357.12	7127.65	-656.20	-655.44	394.01	14.02	47.00
7422.00	61.39	357.97	7152.09	-616.11	-615.36	392.30	11.74	47.00
7469.00	68.40	0.53	7172.02	-573.58	-572.83	391.77	15.71	47.00
7524.00	78.29	3.44	7187.76	-521.00	-520.24	393.63	18.68	55.00
7629.00	86.23	5.41	7201.89	-417.37	-416.60	401.66	7.79	105.00
7721.00	87.74	4.99	7206.72	-325.89	-325.11	409.99	1.70	92.00
7813.00	89.36	4.19	7209.04	-234.23	-233.43	417.35	1.96	92.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
7905.00	90.13	2.43	7209.45	-142.40	-141.59	422.66	2.09	92.00
7997.00	89.70	0.81	7209.58	-50.45	-49.63	425.26	1.82	92.00
8089.00	89.93	0.89	7209.88	41.54	42.36	426.63	0.27	92.00
8181.00	90.13	359.60	7209.82	133.53	134.35	427.02	1.42	92.00
8275.00	90.87	359.67	7209.00	227.53	228.35	426.42	0.79	94.00
8370.00	90.74	358.80	7207.66	322.51	323.33	425.15	0.93	95.00
8465.00	89.50	358.06	7207.47	417.48	418.29	422.54	1.52	95.00
8559.00	88.69	357.45	7208.96	511.40	512.21	418.86	1.08	94.00
8654.00	90.07	357.22	7209.99	606.30	607.09	414.44	1.47	95.00
8748.00	89.29	356.86	7210.51	700.18	700.97	409.58	0.91	94.00
8843.00	89.56	357.82	7211.46	795.08	795.86	405.16	1.05	95.00
8938.00	89.13	358.61	7212.54	890.03	890.80	402.20	0.95	95.00
9032.00	90.07	359.48	7213.21	984.02	984.79	400.64	1.37	94.00
9127.00	90.40	0.90	7212.82	1079.01	1079.78	400.95	1.53	95.00
9221.00	91.04	0.91	7211.63	1172.99	1173.76	402.43	0.68	94.00
9316.00	90.64	0.01	7210.24	1267.97	1268.75	403.20	1.03	95.00
9411.00	89.76	0.61	7209.91	1362.97	1363.75	403.72	1.11	95.00
9505.00	90.84	1.39	7209.41	1456.95	1457.73	405.36	1.41	94.00

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Course Length
ft	deg	deg	ft	ft	ft	ft	°/100ft	ft
9599.00	90.17	0.44	7208.58	1550.93	1551.71	406.86	1.24	94.00
9694.00	91.18	0.58	7207.47	1645.91	1646.70	407.70	1.07	95.00
9789.00	90.47	0.16	7206.10	1740.90	1741.69	408.31	0.87	95.00
9883.00	90.00	0.71	7205.72	1834.89	1835.68	409.02	0.77	94.00
9977.00	88.76	0.78	7206.74	1928.88	1929.67	410.25	1.33	94.00
10072.00	88.92	0.54	7208.66	2023.85	2024.64	411.35	0.31	95.00
10167.00	89.60	0.61	7209.89	2118.83	2119.63	412.31	0.71	95.00
10261.00	88.62	0.34	7211.35	2212.82	2213.61	413.09	1.08	94.00
10356.00	88.46	359.83	7213.77	2307.78	2308.58	413.23	0.56	95.00
10450.00	88.66	359.23	7216.14	2401.75	2402.55	412.46	0.68	94.00
10544.00	88.79	358.63	7218.23	2495.71	2496.51	410.71	0.65	94.00
10638.00	89.30	358.15	7219.80	2589.67	2590.46	408.07	0.74	94.00
10732.00	88.82	357.07	7221.35	2683.58	2684.36	404.15	1.25	94.00
10826.00	89.06	357.87	7223.08	2777.48	2778.25	400.01	0.89	94.00
10920.00	89.13	359.20	7224.57	2871.44	2872.21	397.61	1.42	94.00
11014.00	89.56	358.94	7225.65	2965.42	2966.19	396.09	0.54	94.00
11109.00	89.80	0.16	7226.18	3060.42	3061.18	395.34	1.31	95.00
11203.00	89.70	1.52	7226.59	3154.40	3155.17	396.71	1.45	94.00

5" = 100' FEET MD