



5" = 100' FEET MD

COMPANY : ANADARKO E&P ONSHORE LLC
WELL : GOODIN 38N-B6HZ
FIELD : WATTENBERG
COUNTY : WELD
STATE : COLORADO
COUNTRY : U.S.A.
UWI : 05-123-40742

COMPANY : ANADARKO E&P ONSHORE LLC

WELL : GOODIN 38N-B6HZ

FIELD : WATTENBERG

COUNTY : WELD

STATE : COLORADO

COUNTRY : U.S.A.

UWI : 05-123-40742

WELL LOCATION

LAT:40°3'35.438"N LONG:104°42'7.902"W
N:1265651.02 ft E:3223308.79 ft

SEC:07

TWP:1N

RANGE: 65W

OTHER SERVICES

DIRECTIONAL
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
12.5	0	1586	0 - 29	0	4446
8.75	1586	7866	29 - 0	4446	6608
6	7866	13475	0 - 82	6608	7809
			82 - 92	7809	13475

CASING RECORD

CASING SIZE in	FROM ft	TO ft			
9.625	0	1582			
7	0	7852	DRILLING CO. : H&P RIG : 307 LWD UNIT NO. : C11-EM#70 /DISTRICT: CASPER SPUD DATE : 01/11/2015 LWD START DATE : 01/30/2015 DEPTH : 1586 ft LWD END DATE : 02/06/2015 DEPTH : 13475 ft TOTAL DEPTH : 13475 ft		

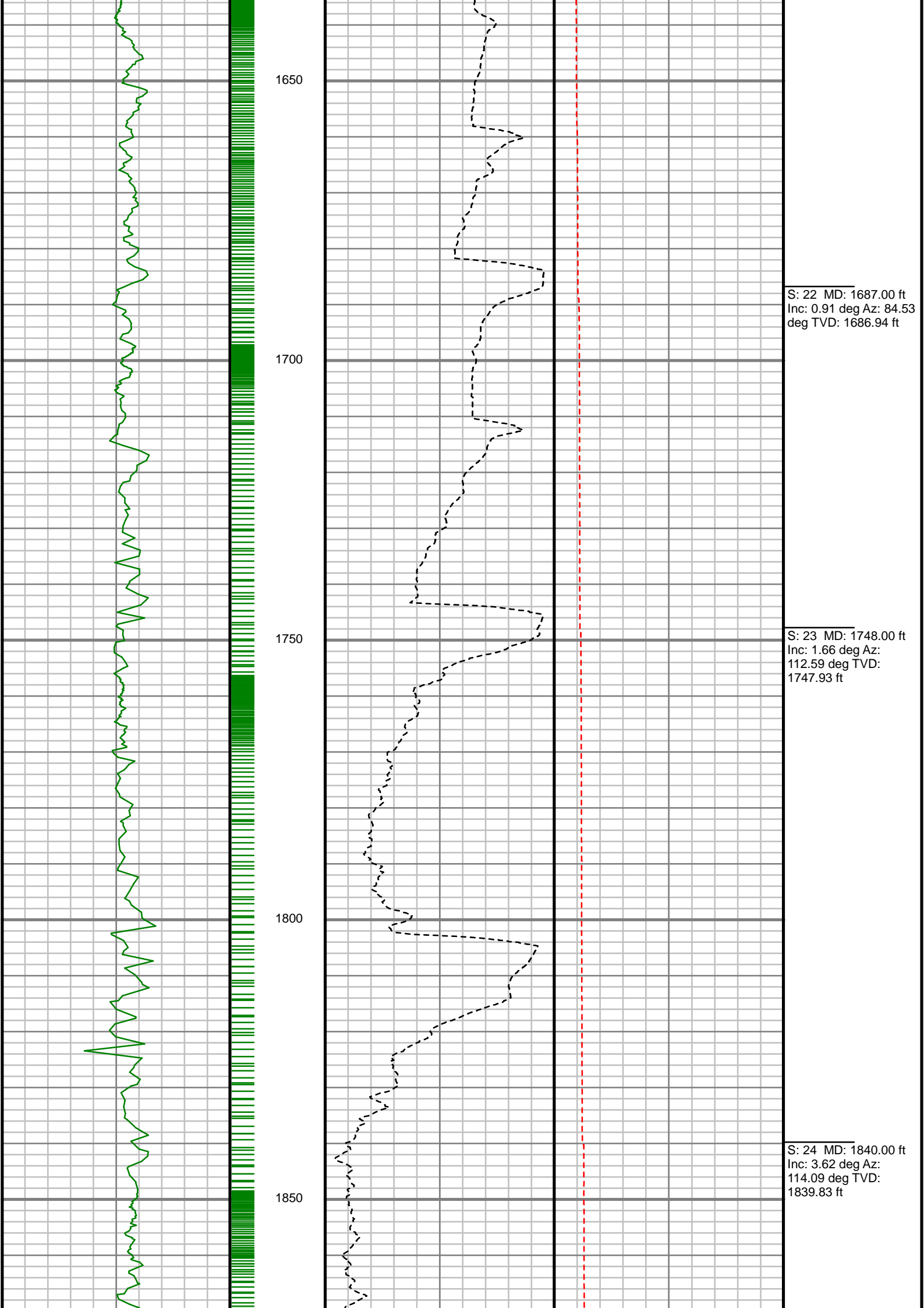
Run Data

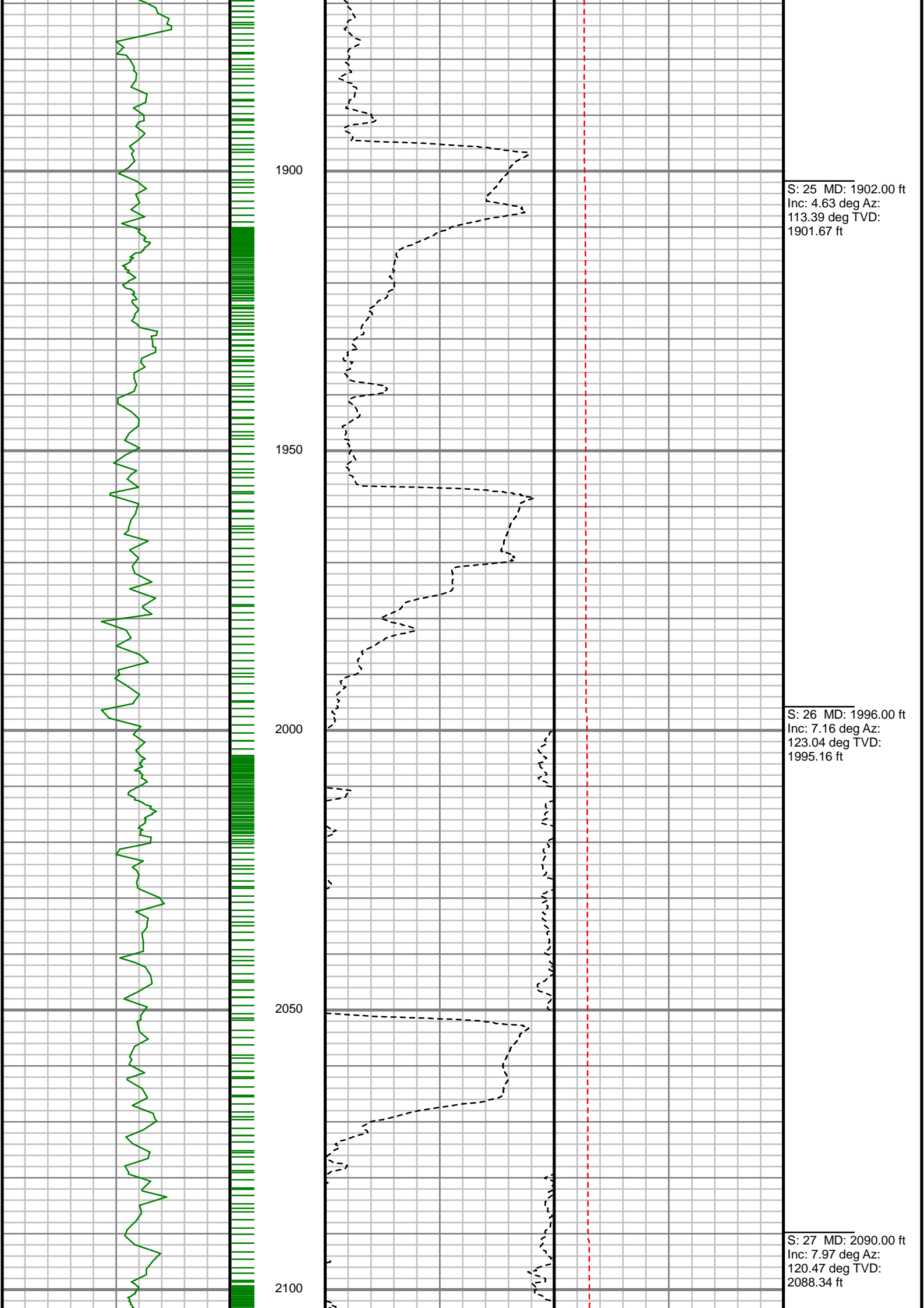
Run Data						
RUN NUMBER	1	2				
START DATE	01/30/2015	02/03/2015				
START TIME	0700	1950				
END DATE	02/02/2015	02/06/2015				
END TIME	1310	0815				
DEPTH IN (ft)	1586	7866				
DEPTH OUT (ft)	7866	13475				
LOG TOP (ft)	1539	7819				
LOG BOTTOM (ft)	7819	13475				
HOLE SIZE (in)	8.75	6				
MUD DATA @ (ft)	7866	10037				
MUD TYPE	WATER-BASED	WATER-BASED				
DENSITY (lb / gal)	10.4	9.5				
VISCOSITY (s / qt)	54	46				
pH	9.5	9.8				
FLUID LOSS (cm ³ / 30)	-	-				
SALINITY (ppm)	-	-				
Rm (ohmm @ deg F)	-	-				
Rmf (ohmm @ deg F)	-	-				
MAX TEMP (deg F)	134	233				
Rm @ MAX TEMP (ohmm)	-	-				
LWD ENGINEER #1	S. WAXLER	S. WAXLER				
LWD ENGINEER #2	B. MILBURN	C. COLLINS				
LWD ENGINEER #3	-	-				
LOG WITNESS #1	-	-				
LOG WITNESS #2	-	-				

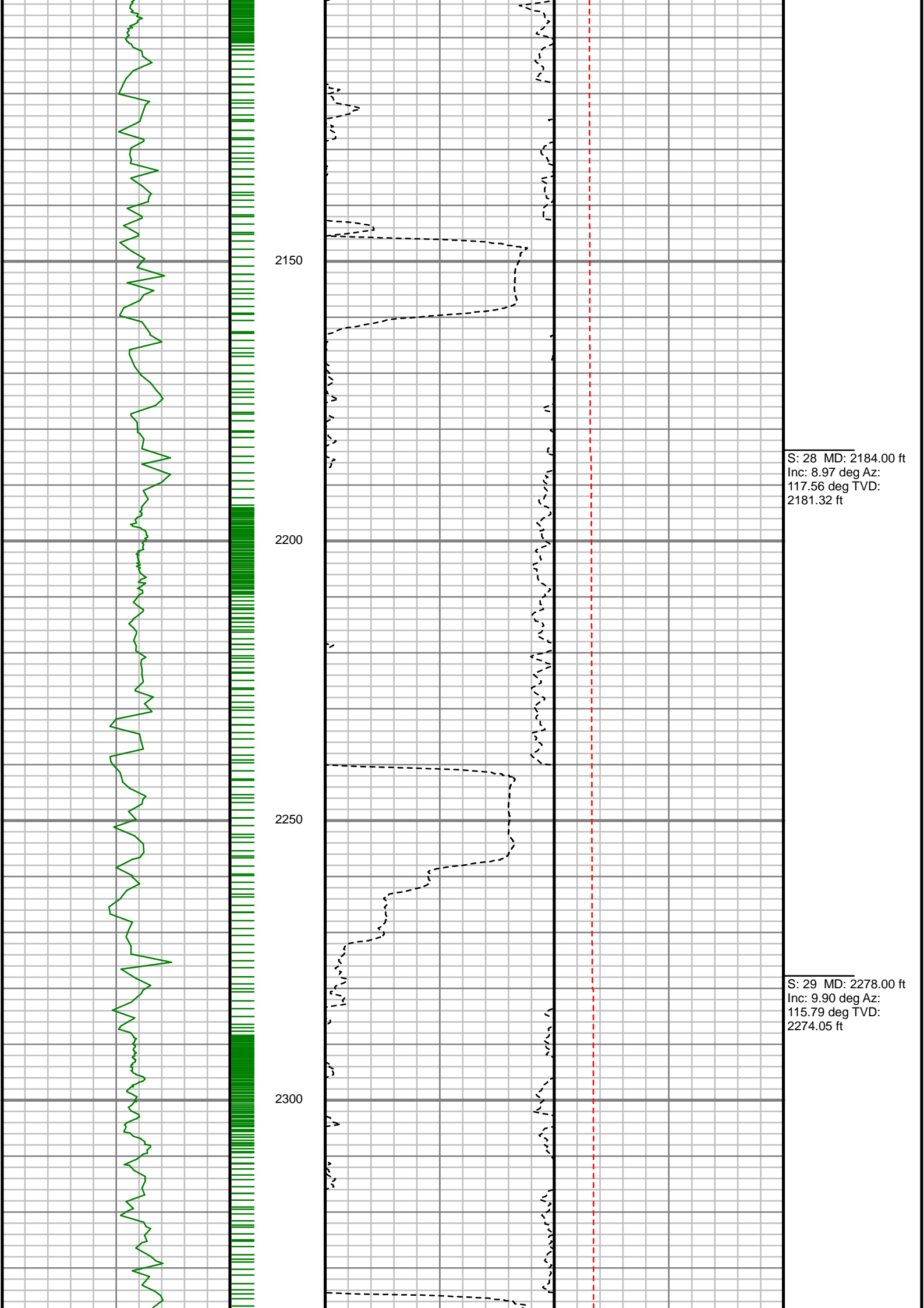
Remarks
ANADARKO E&P ONSHORE LLC PRODUCTION AFE# 2097453
SCIENTIFIC DRILLING INTERNATIONAL JOB# 251330
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
RUN #1: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER =128-386 / CONT = 939 / MWD EYE = 1167 / GAMMA RAY = 1344
BIT TO SENSOR OFFSETS: SURVEY = 55.50 FT. / GAMMA RAY = 46.85 FT.
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 78-133 / CONT = 631 / MWD EYE = 1213 / GAMMA RAY = 1208
BIT TO SENSOR OFFSETS: SURVEY = 57.83 FT. / GAMMA RAY = 49.18 FT.
REMARK #1: GAMMA RAY FROM 7819 FT. - 7862 FT. WAS LOGGED BEHIND CASING.
MNEMONICS LIST:
GR = GAMMA RAY
ROP = RATE OF PENETRATION
T-TEMP = TOOL TEMPERATURE

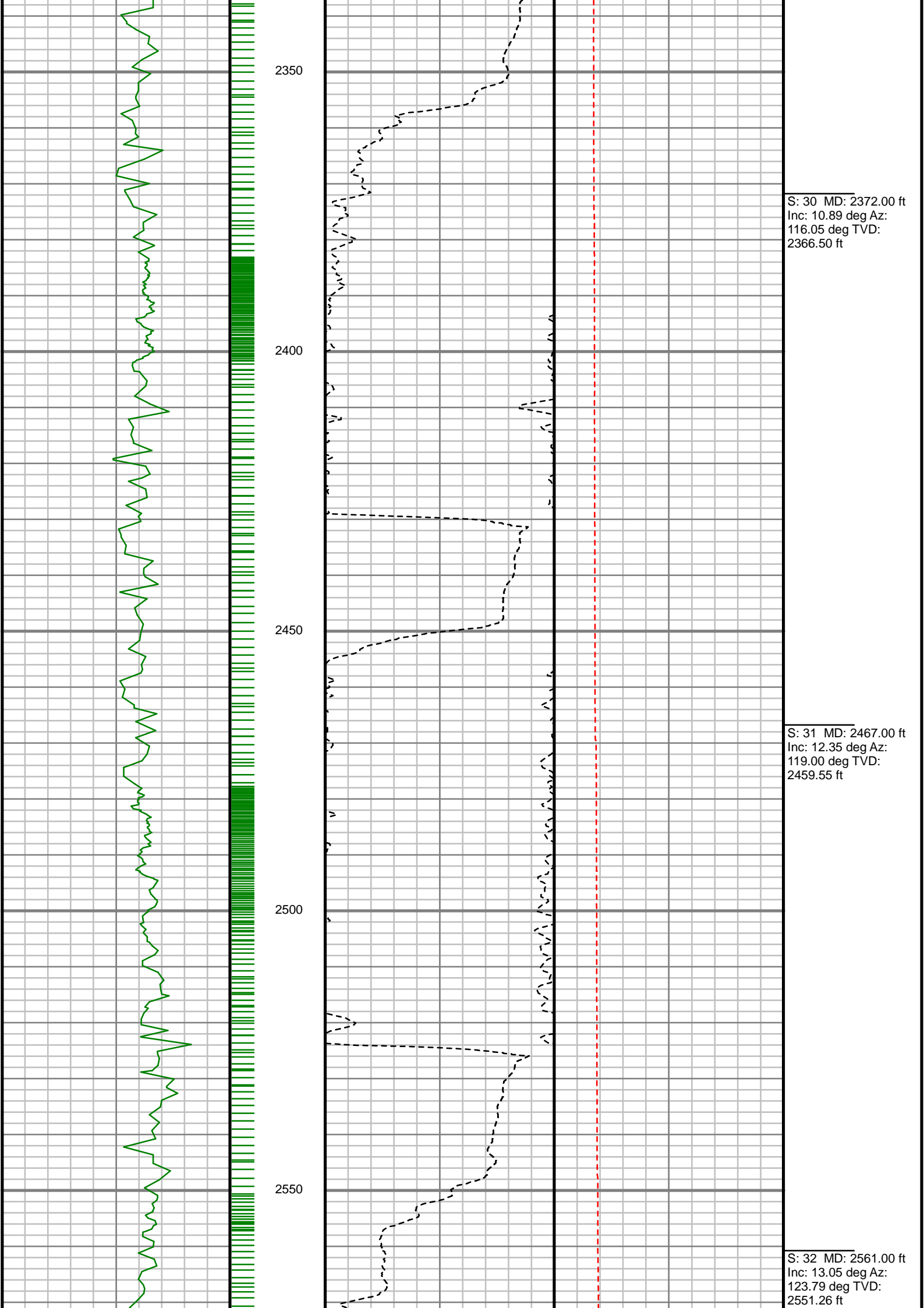
All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

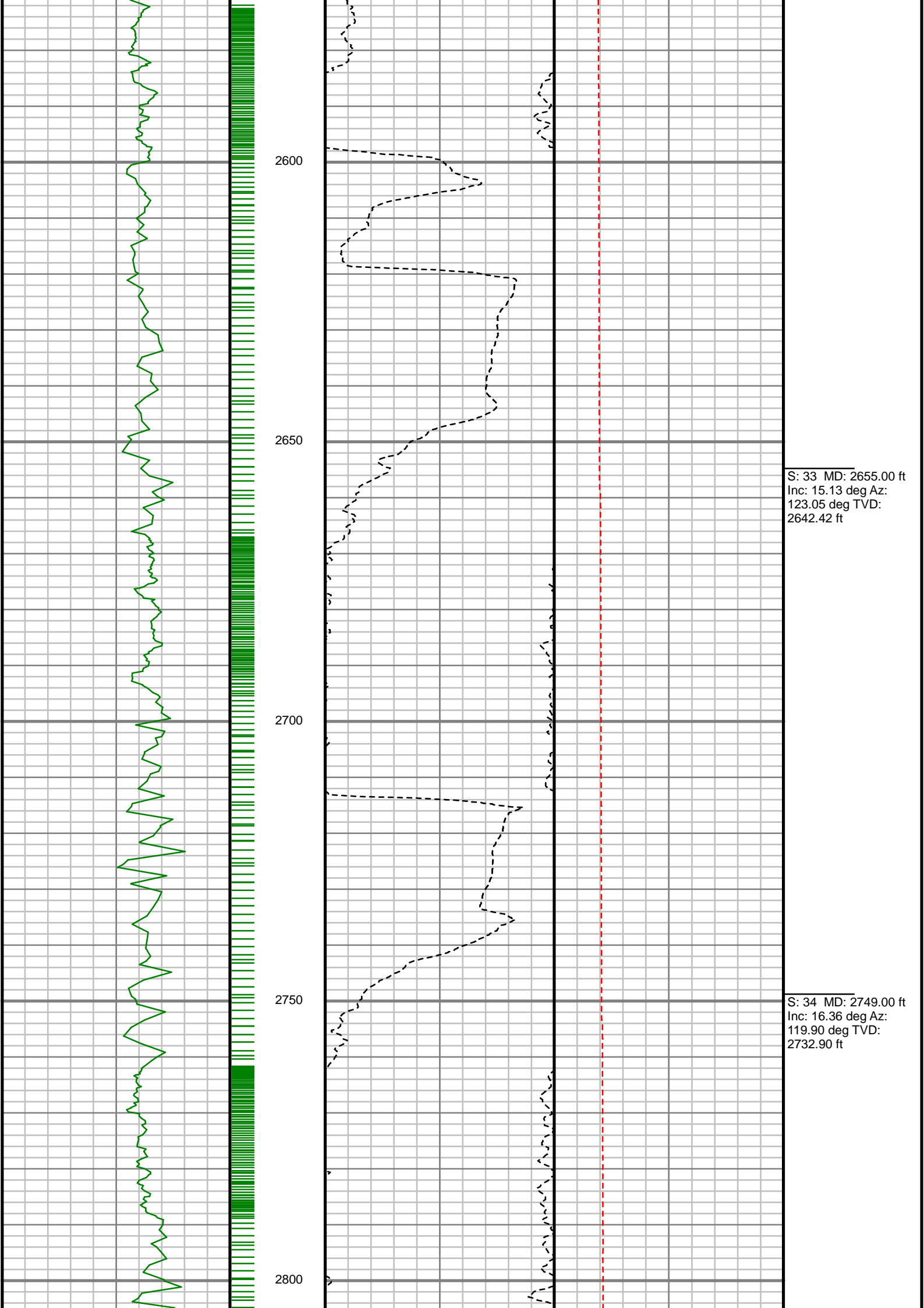
ANADARKO E&P ONSHORE LLC GOODIN 38N-B6HZ WATTENBERG FIELD WELD COUNTY, COLORADO 05-123-40742				
<p>Gamma Ray (GR)</p> <p>Unit = aapi</p>	<p>MEASURED DEPTH</p> <p>1:240 (ft)</p>	<p>Rate of Penetration (ROP)</p> <p>Unit = ft/hr</p>	<p>Tool Temperature (T-TEMP)</p> <p>Unit = °F</p>	<p>Comments</p>
<p>0 150</p>	<p>1600</p>	<p>1000 0</p>	<p>50 300</p>	<p>S: 21 MD: 1626.00 ft Inc: 0.57 deg Az: 75.88 deg TVD: 1625.95 ft</p>

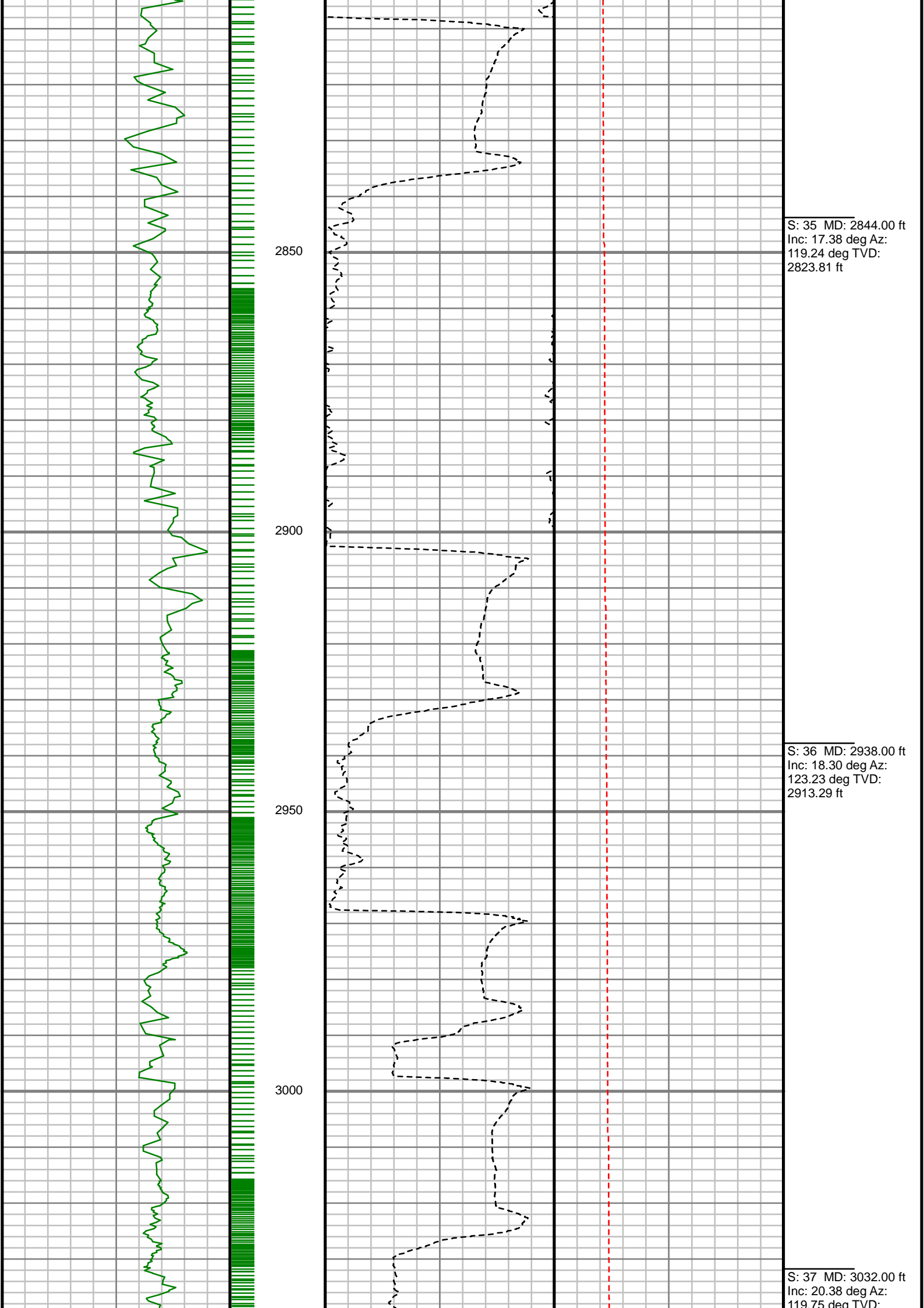








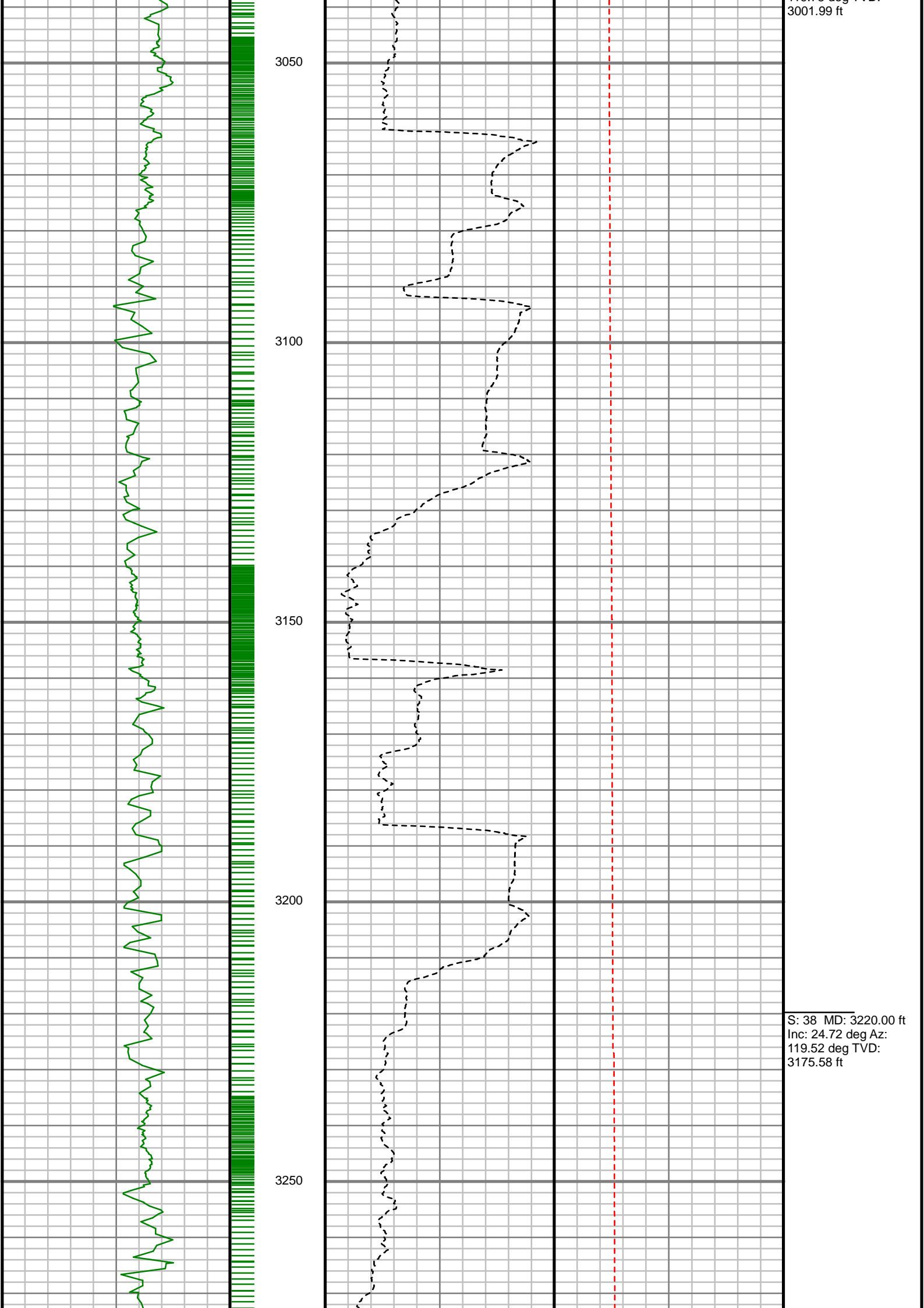




S: 35 MD: 2844.00 ft
Inc: 17.38 deg Az:
119.24 deg TVD:
2823.81 ft

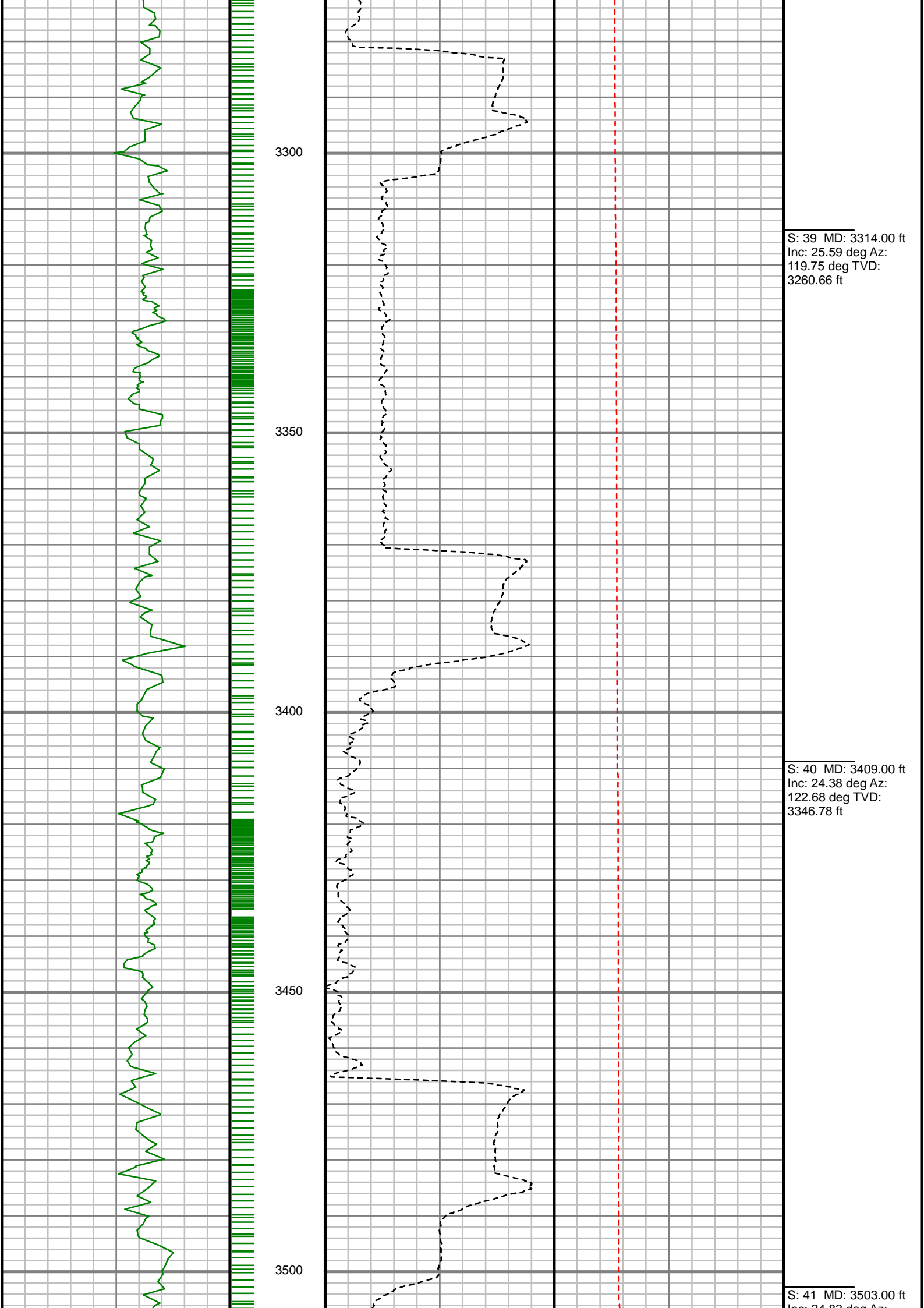
S: 36 MD: 2938.00 ft
Inc: 18.30 deg Az:
123.23 deg TVD:
2913.29 ft

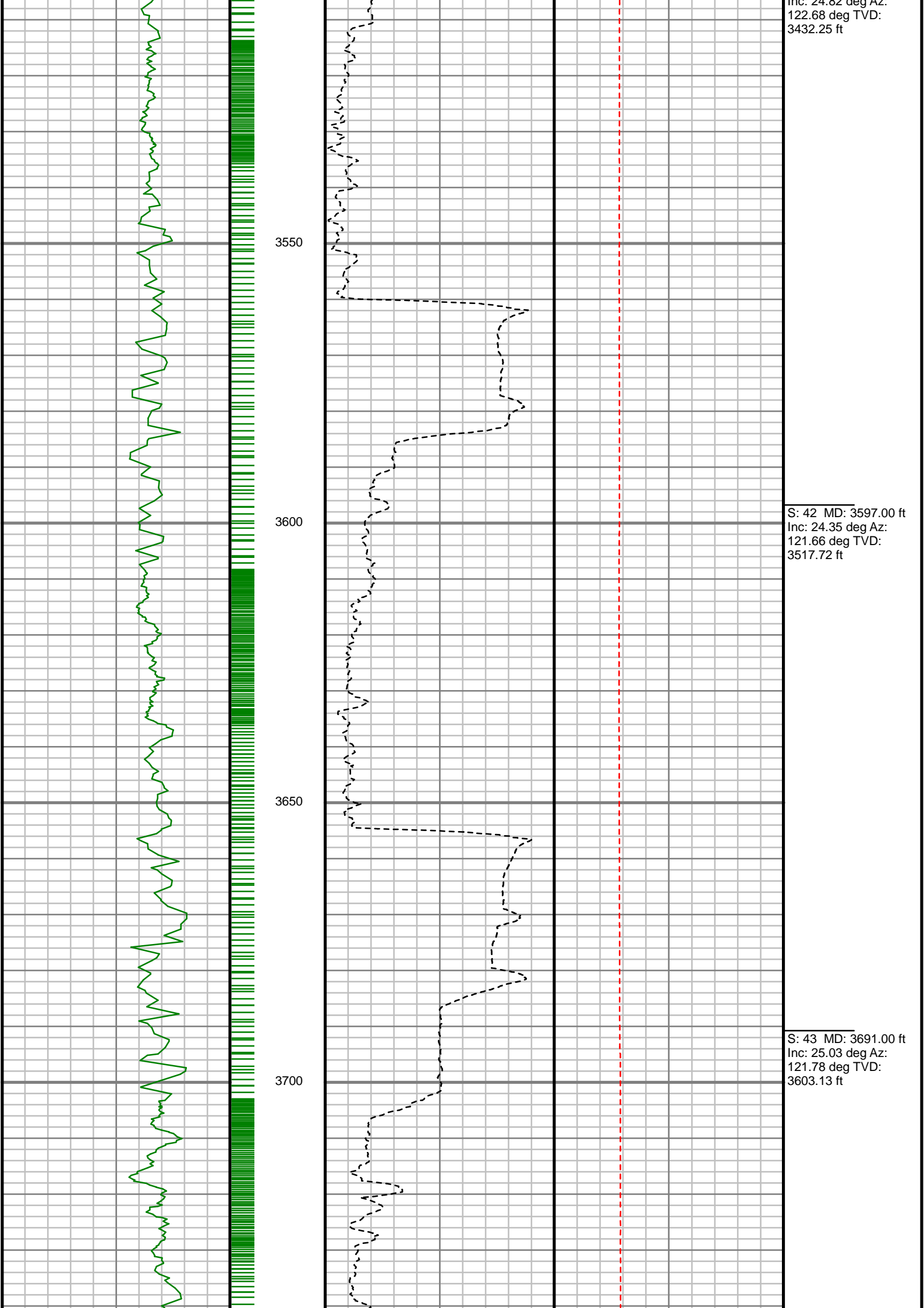
S: 37 MD: 3032.00 ft
Inc: 20.38 deg Az:
119.75 deg TVD:

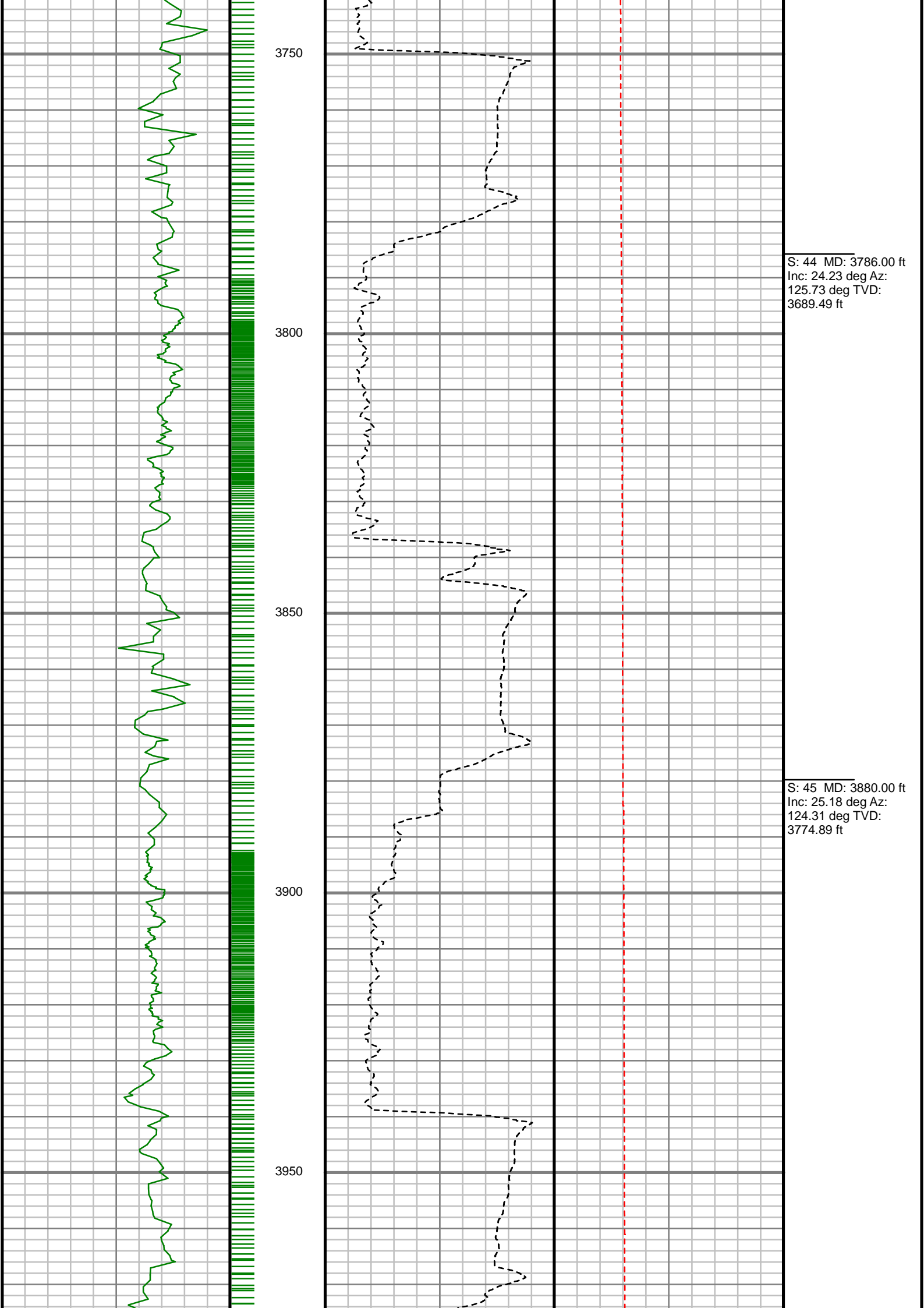


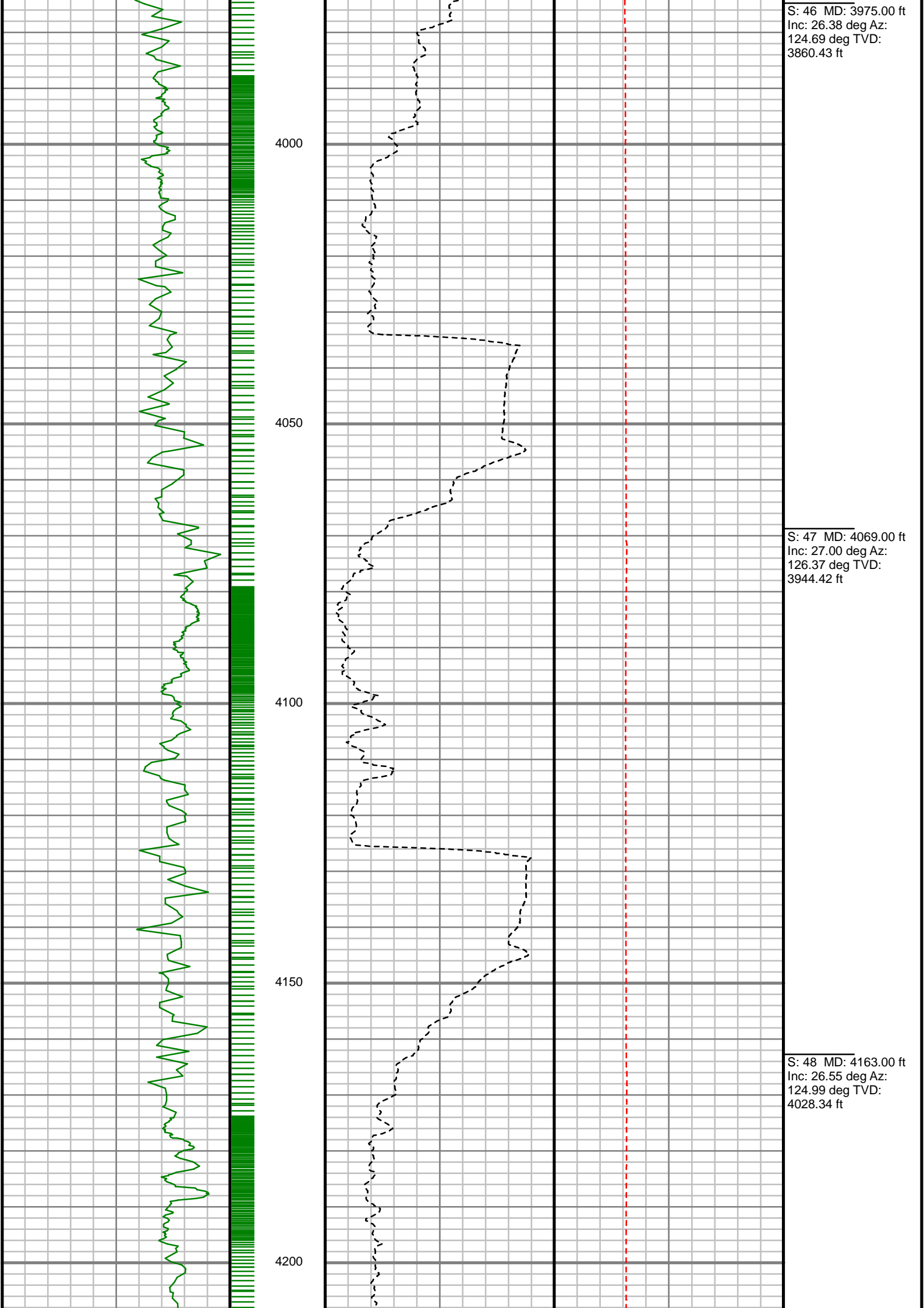
3001.99 ft

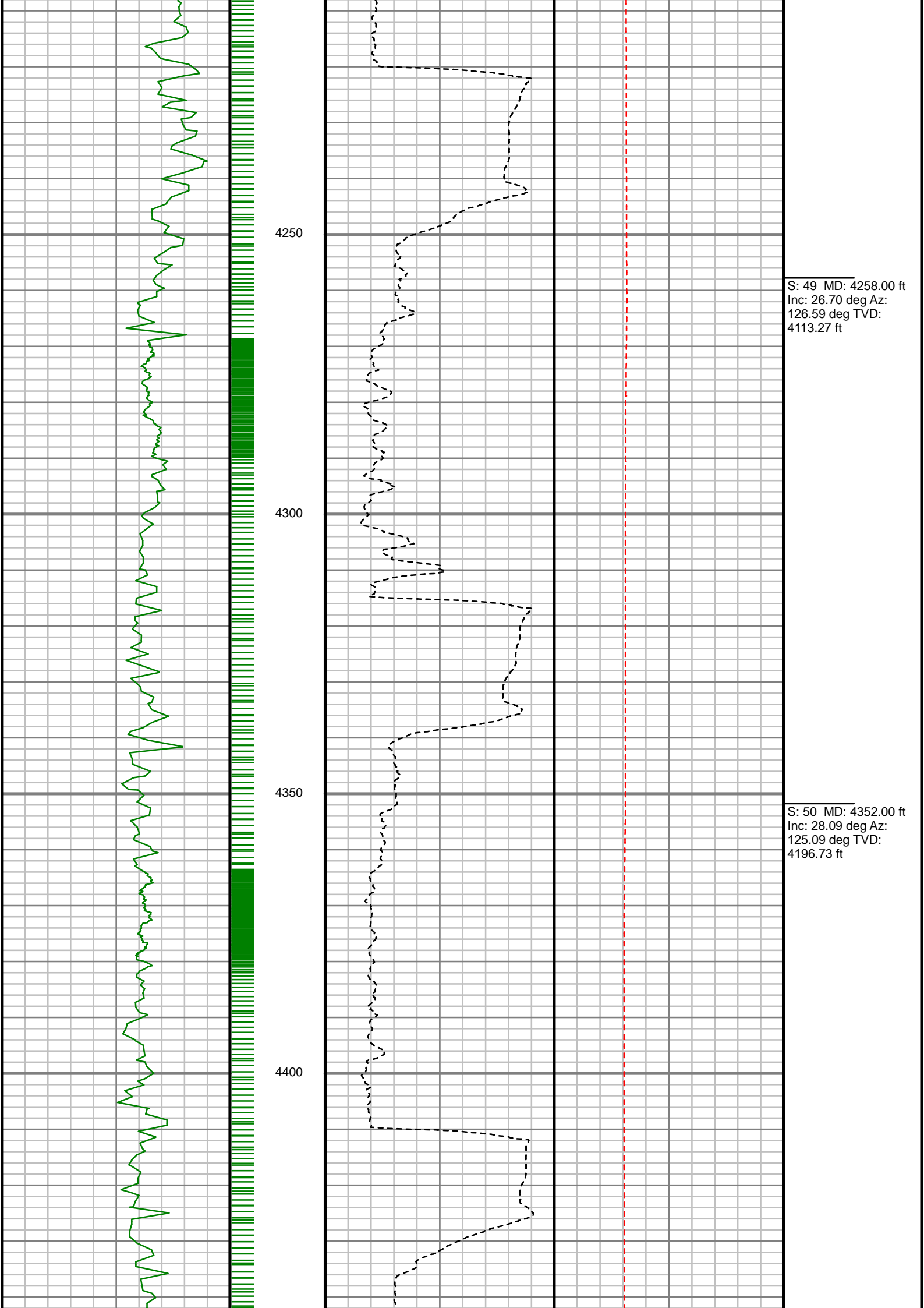
S: 38 MD: 3220.00 ft
Inc: 24.72 deg Az: 119.52 deg
TVD: 3175.58 ft

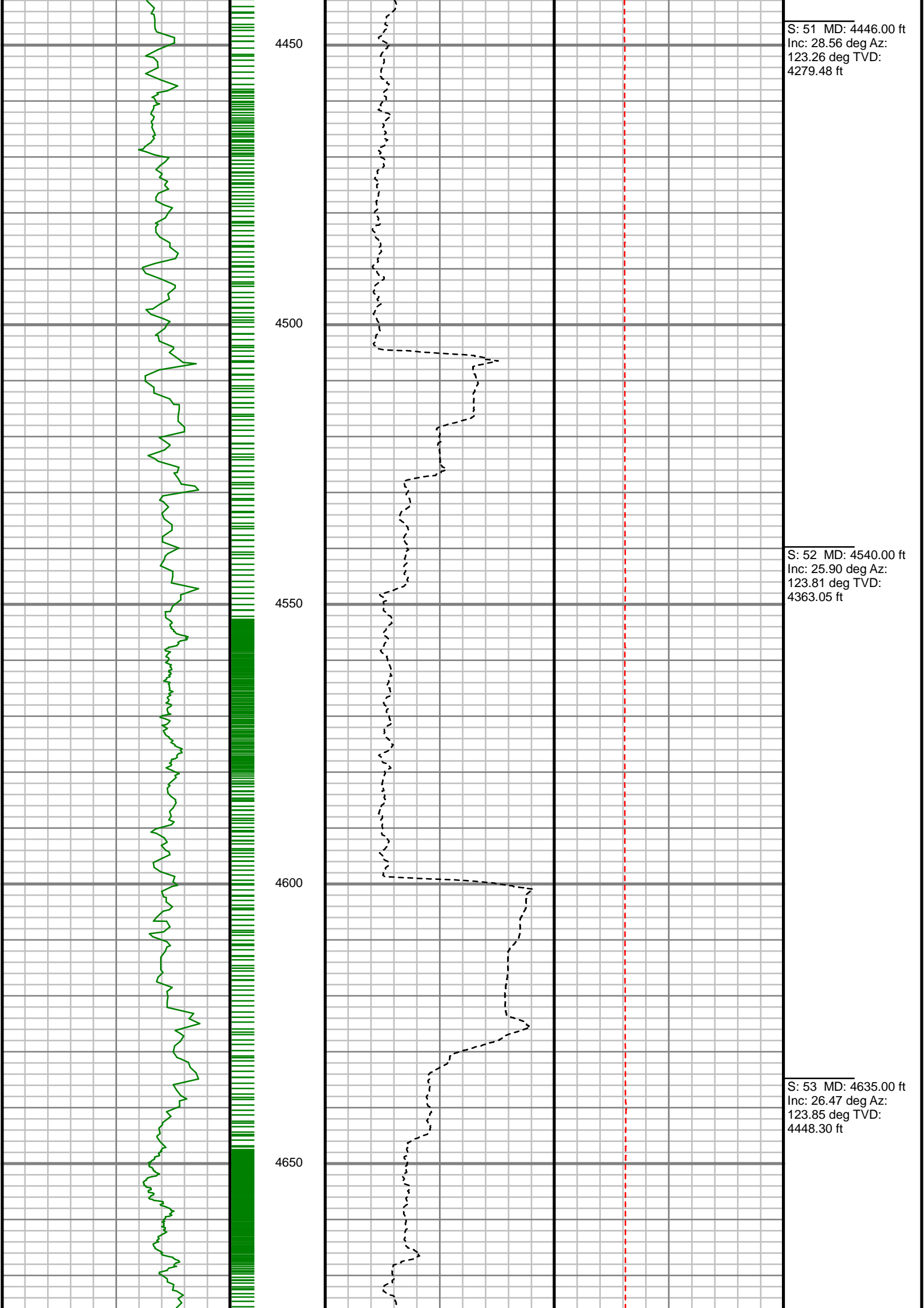


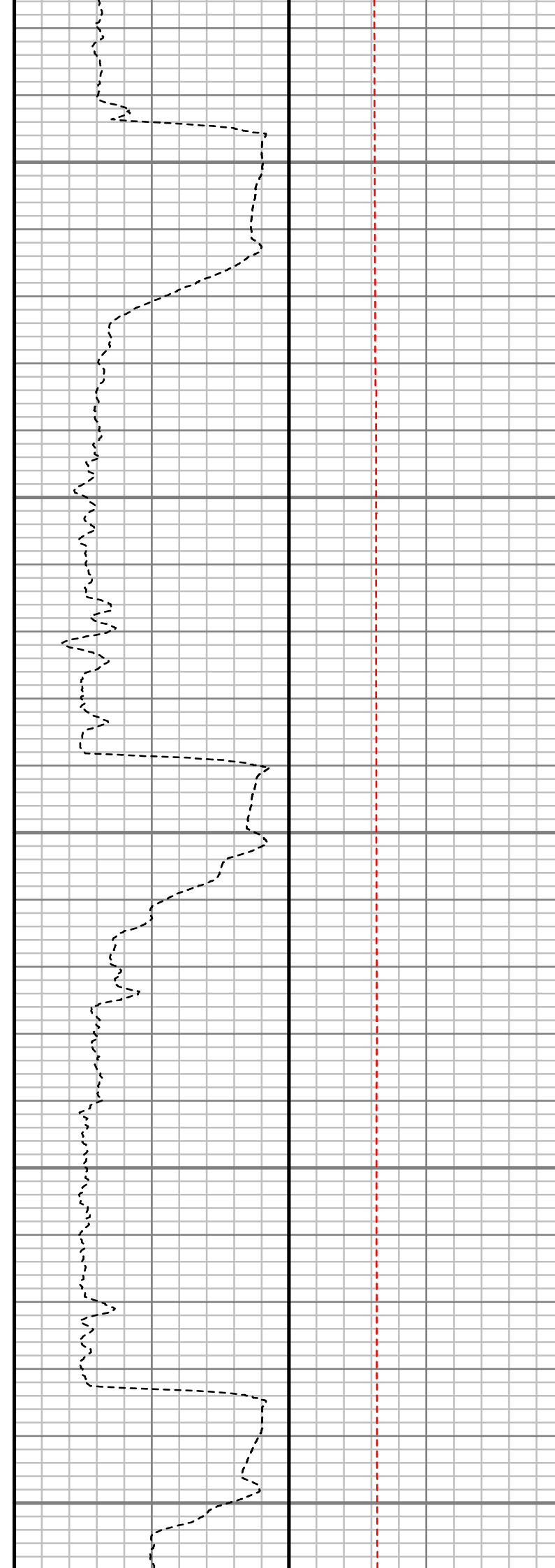
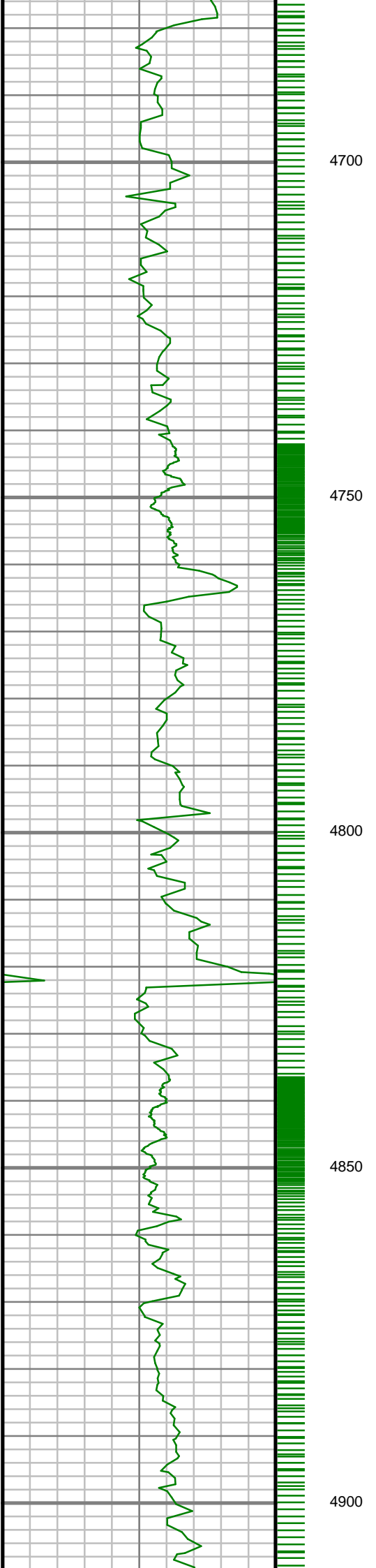






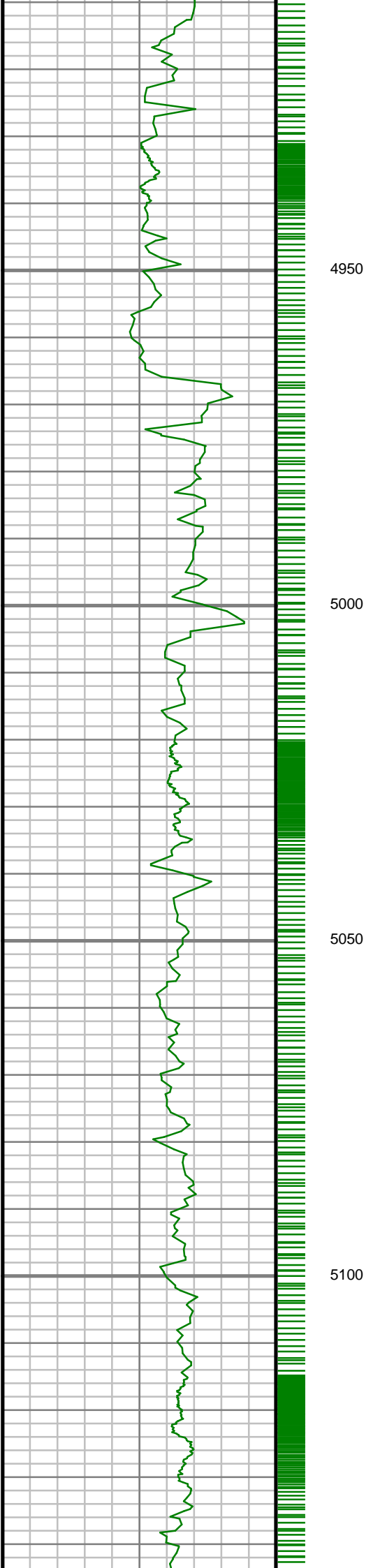






S: 54 MD: 4729.00 ft
Inc: 26.91 deg Az:
123.18 deg TVD:
4532.28 ft

S: 55 MD: 4823.00 ft
Inc: 26.02 deg Az:
124.17 deg TVD:
4616.43 ft



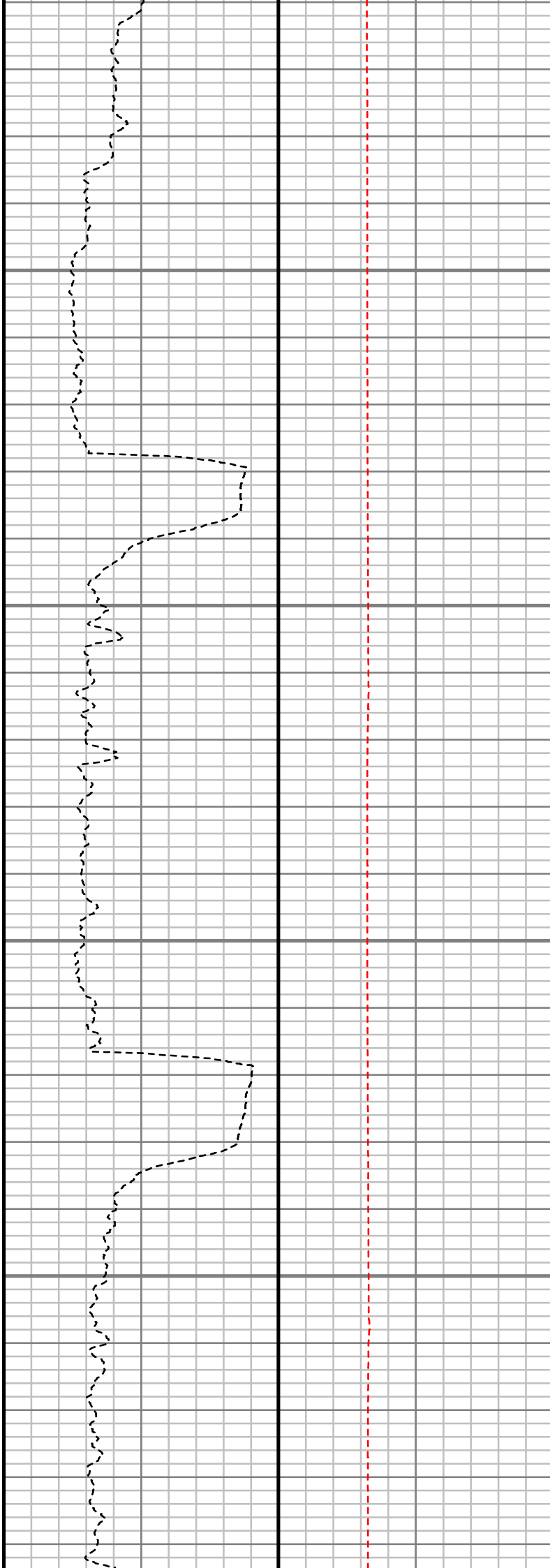
4950

5000

5050

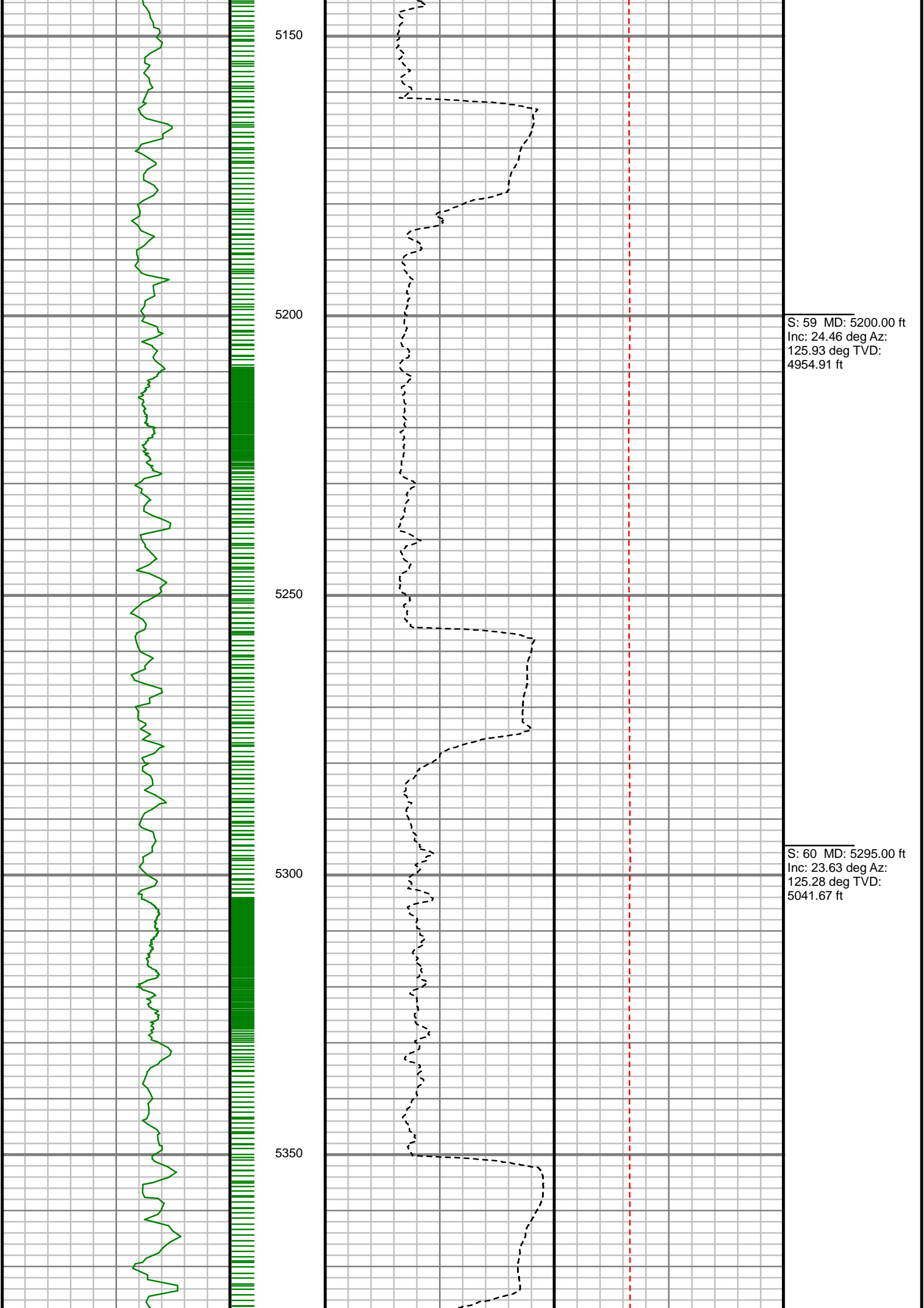
5100

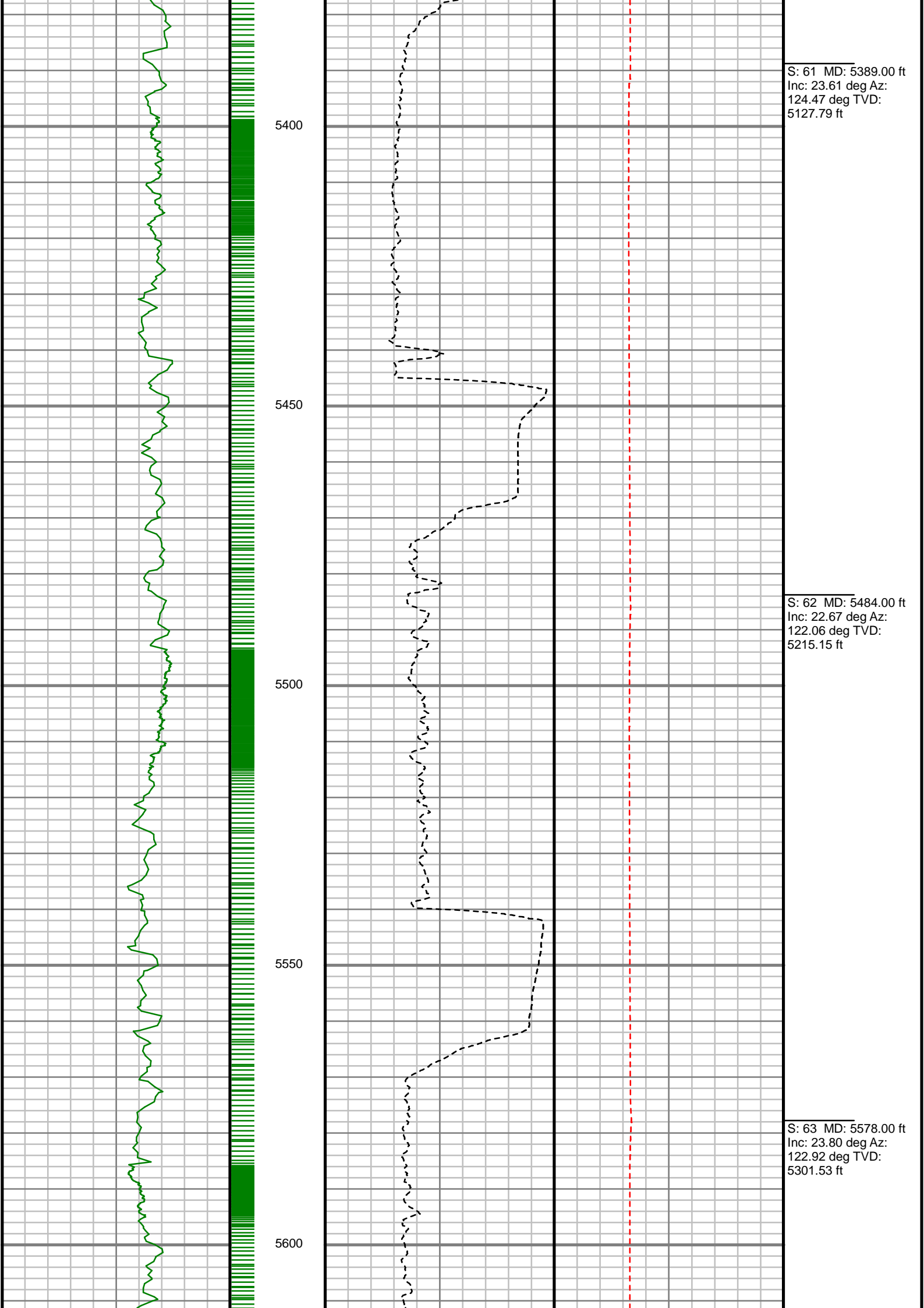
S: 56 MD: 4917.00 ft
Inc: 26.34 deg Az:
124.92 deg TVD:
4700.79 ft

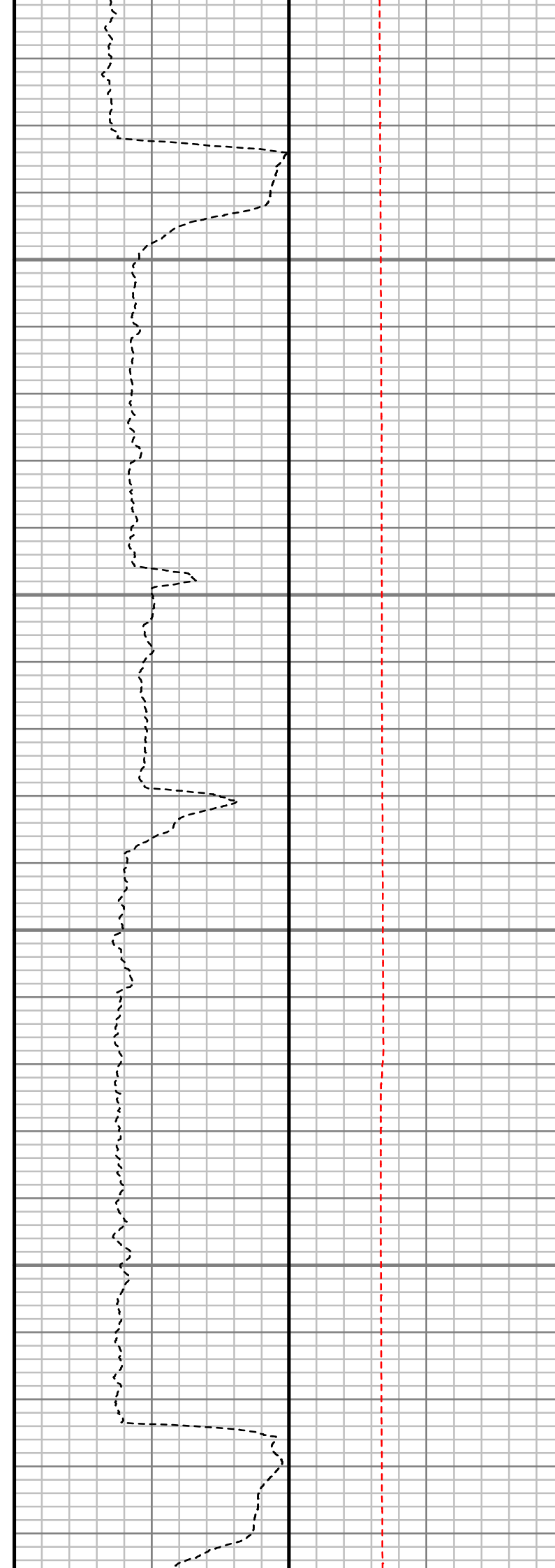
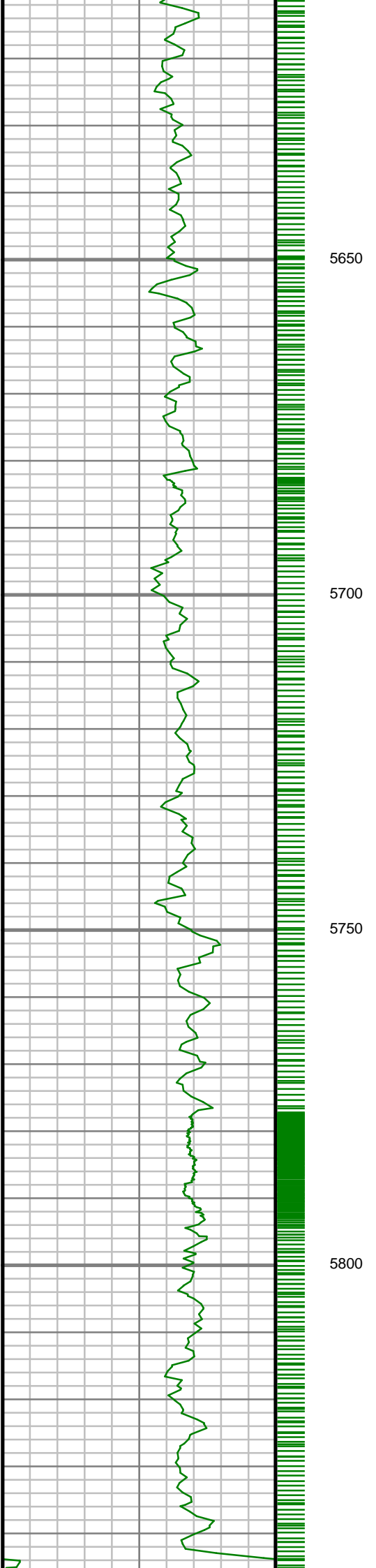


S: 57 MD: 5011.00 ft
Inc: 26.67 deg Az:
124.88 deg TVD:
4784.91 ft

S: 58 MD: 5106.00 ft
Inc: 26.23 deg Az:
125.94 deg TVD:
4869.96 ft

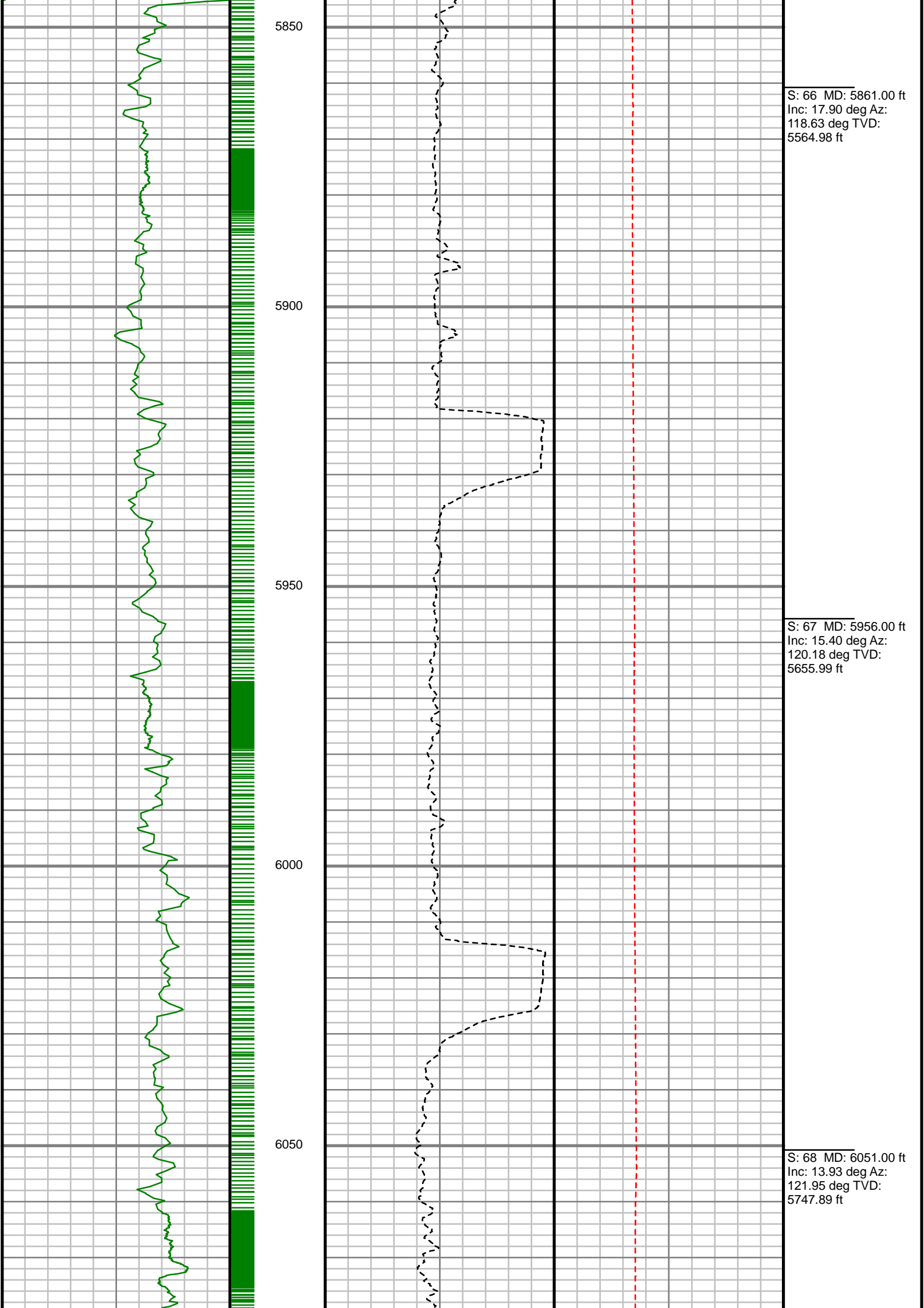


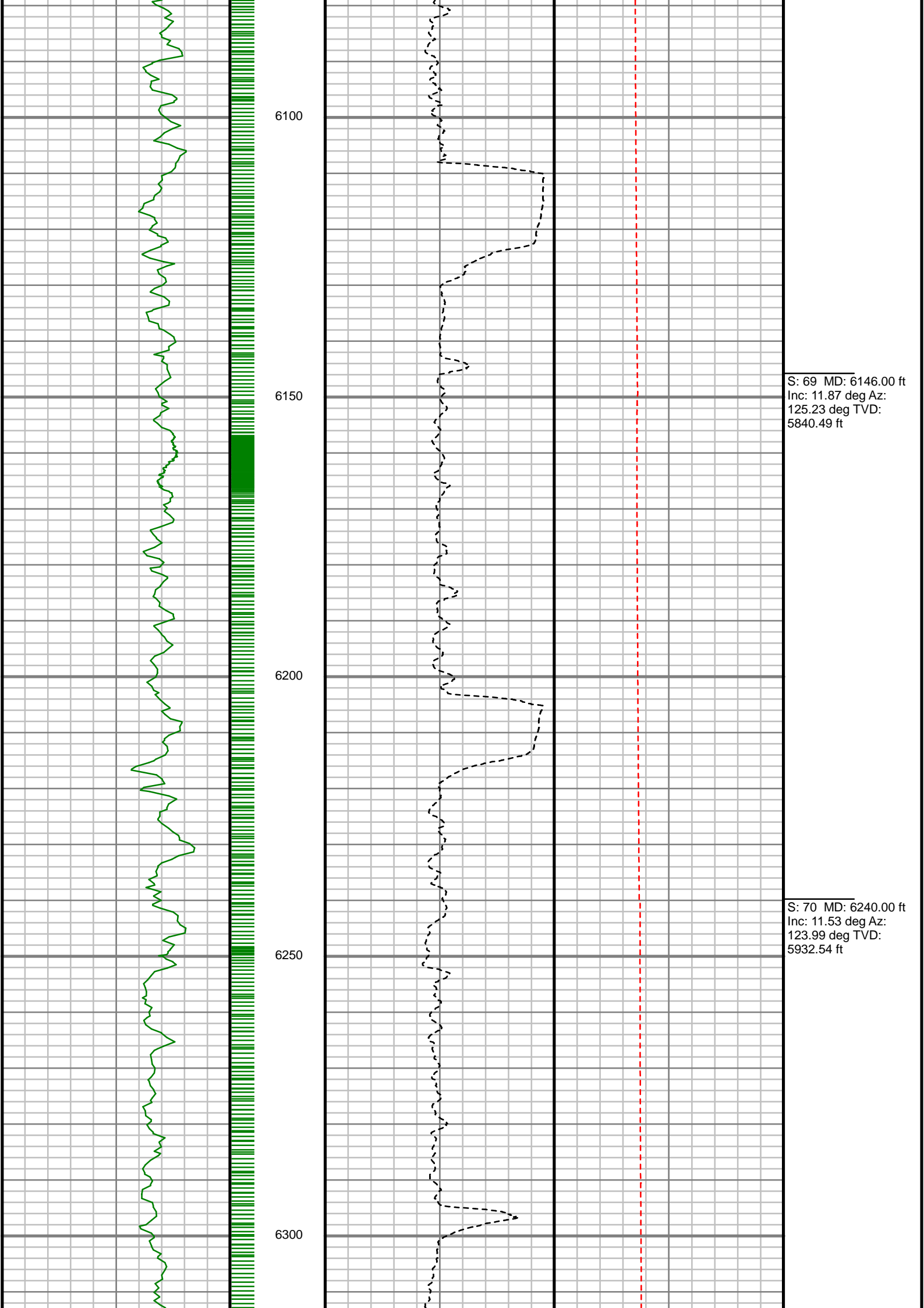


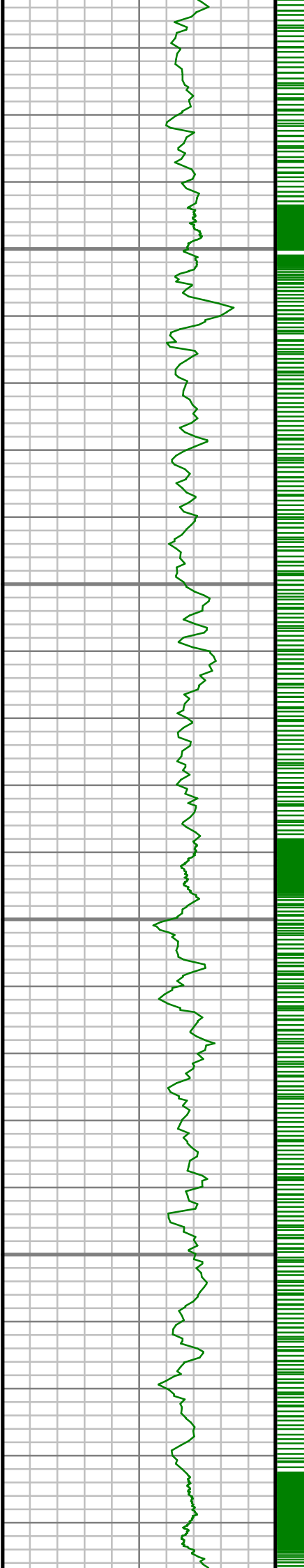


S: 64 MD: 5672.00 ft
Inc: 23.17 deg Az:
122.75 deg TVD:
5387.74 ft

S: 65 MD: 5767.00 ft
Inc: 19.99 deg Az:
119.60 deg TVD:
5476.07 ft





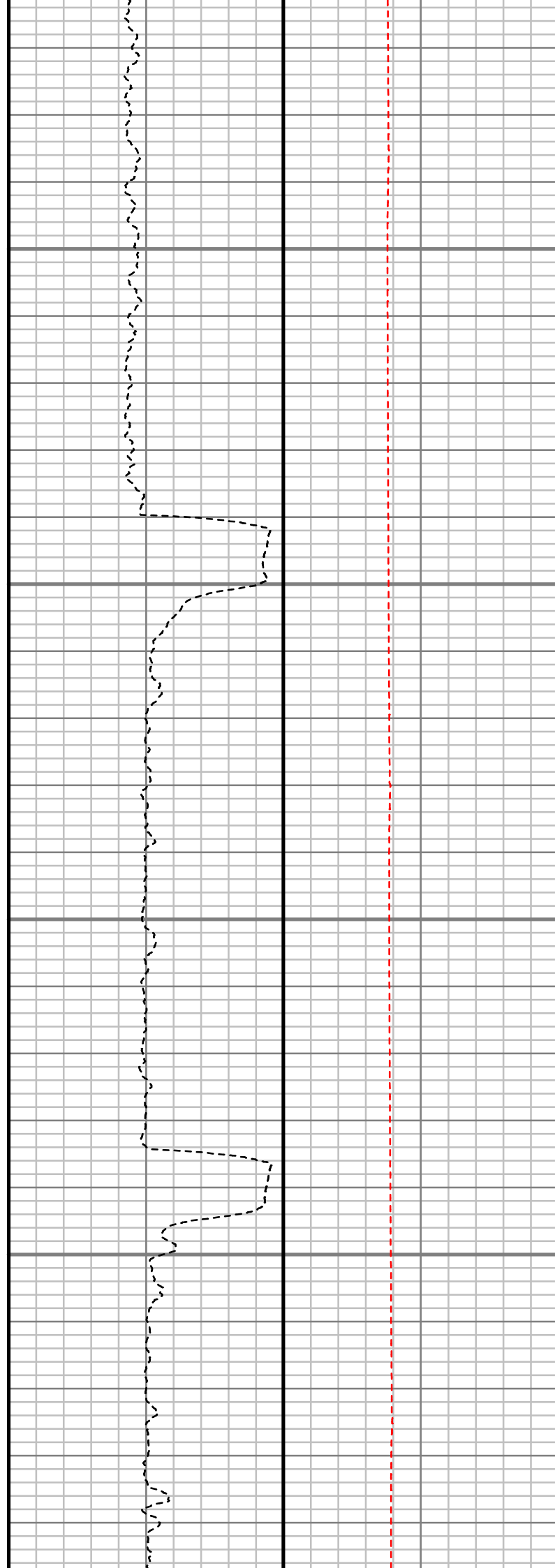


6350

6400

6450

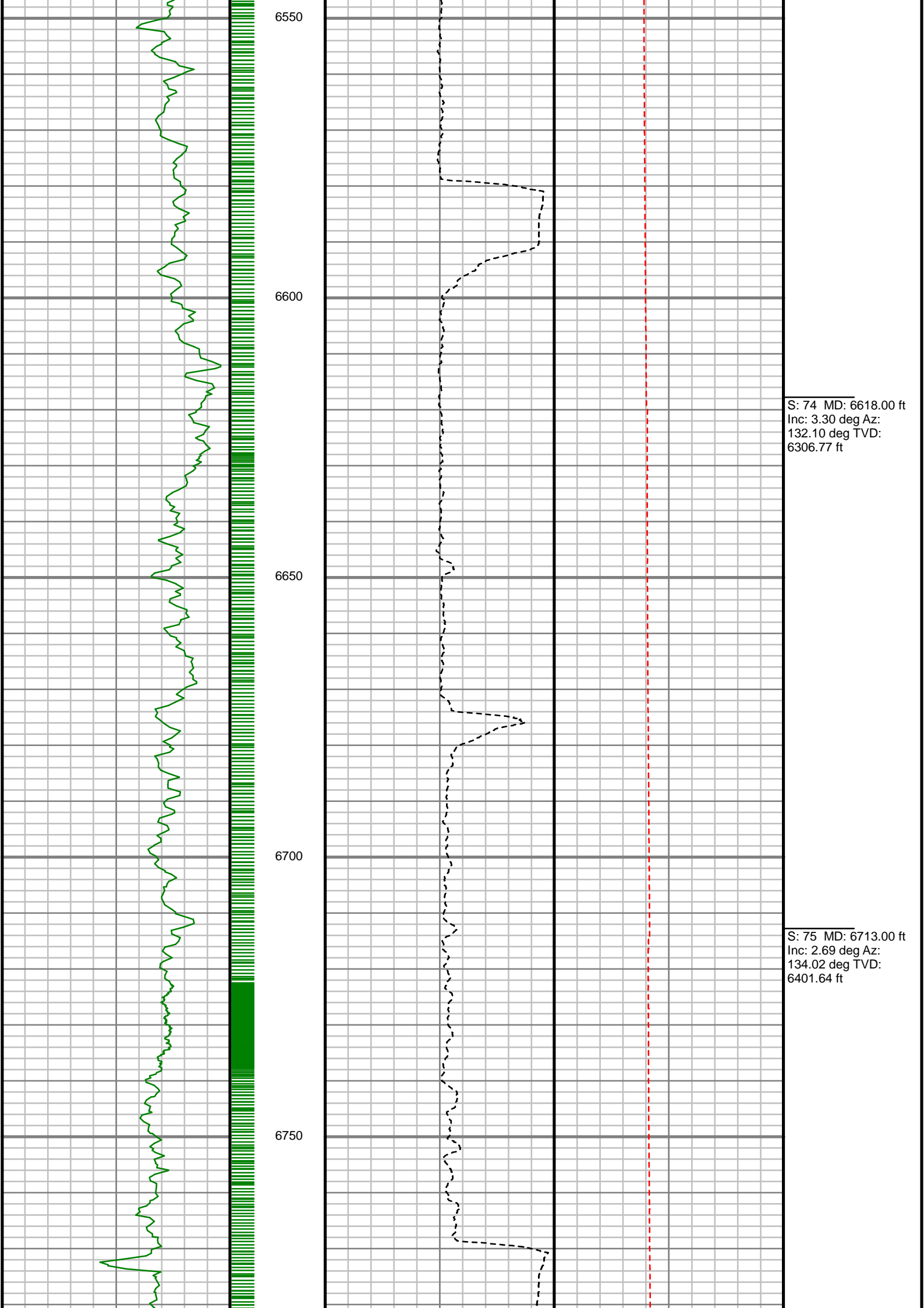
6500

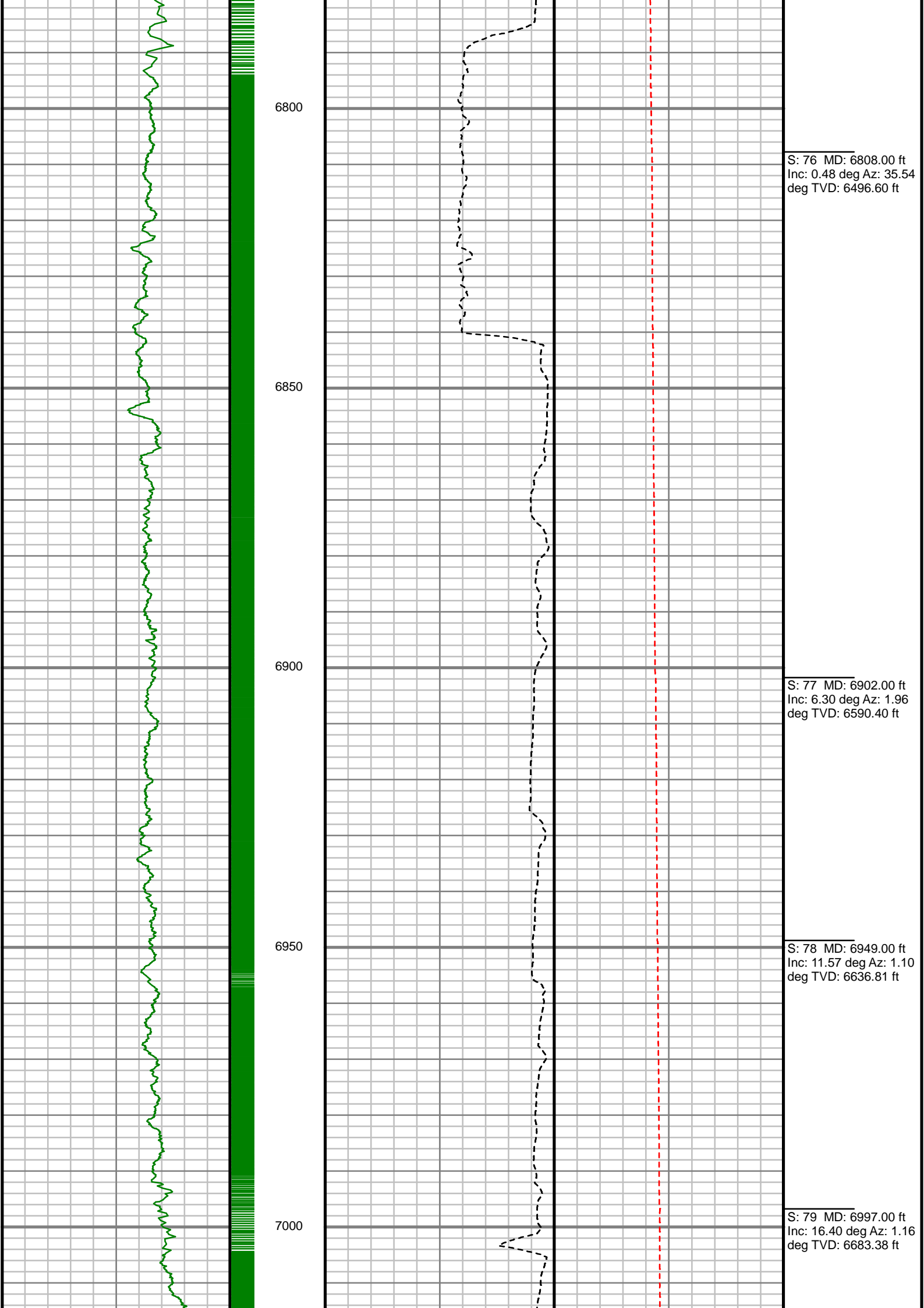


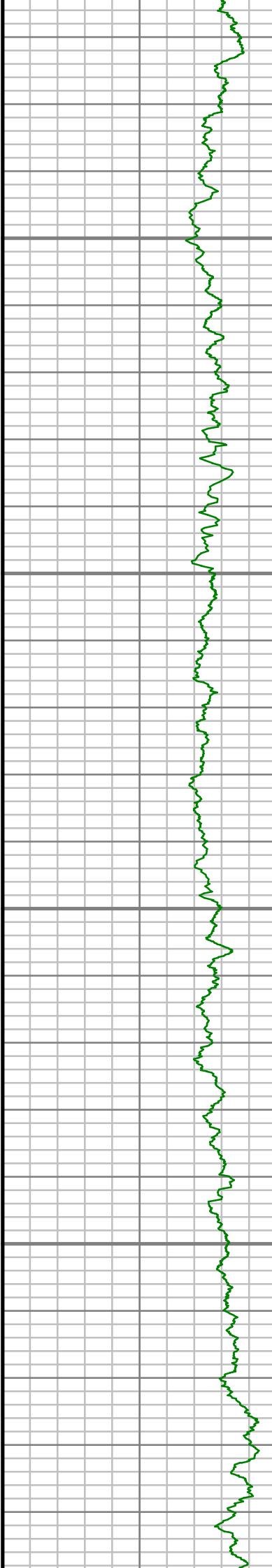
S: 71 MD: 6334.00 ft
Inc: 10.08 deg Az:
116.66 deg TVD:
6024.87 ft

S: 72 MD: 6429.00 ft
Inc: 7.73 deg Az:
123.59 deg TVD:
6118.72 ft

S: 73 MD: 6524.00 ft
Inc: 5.71 deg Az:
128.78 deg TVD:
6213.07 ft





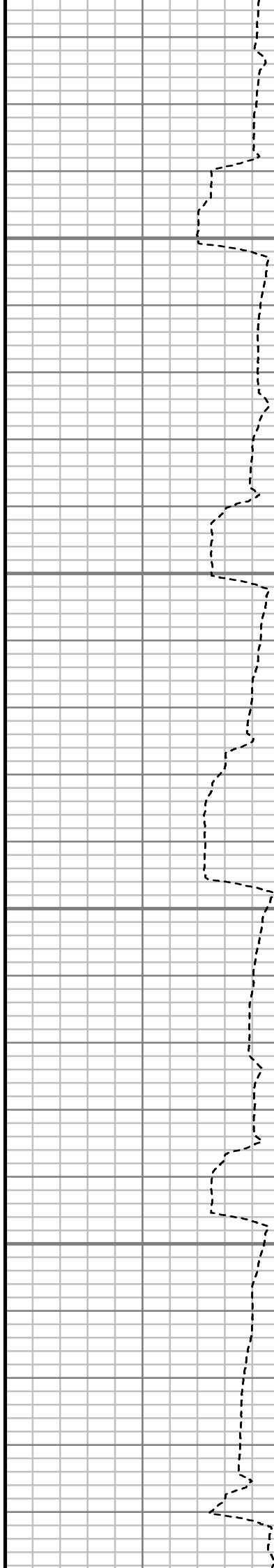


7050

7100

7150

7200



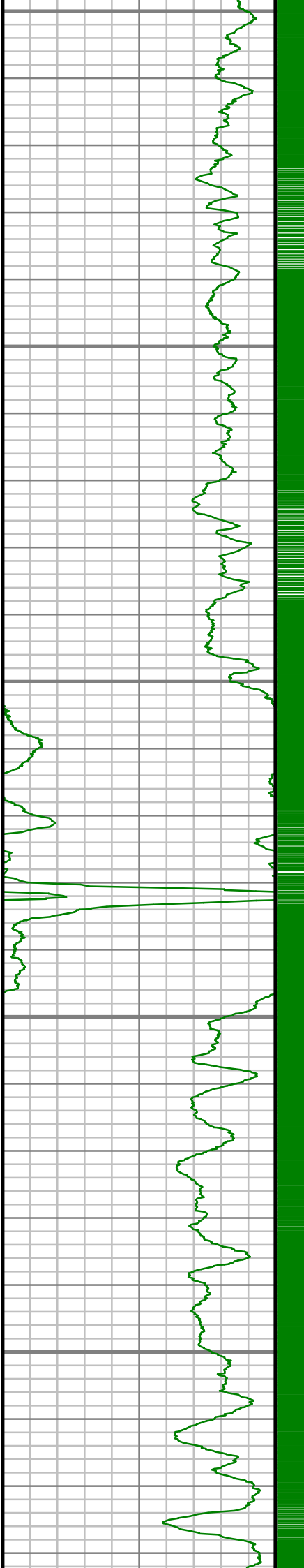
S: 80 MD: 7044.00 ft
Inc: 20.59 deg Az:
357.38 deg TVD:
6727.94 ft

S: 81 MD: 7092.00 ft
Inc: 23.51 deg Az:
355.86 deg TVD:
6772.43 ft

S: 82 MD: 7139.00 ft
Inc: 26.04 deg Az:
357.87 deg TVD:
6815.10 ft

S: 83 MD: 7186.00 ft
Inc: 29.52 deg Az:
359.90 deg TVD:
6856.68 ft

S: 84 MD: 7233.00 ft
Inc: 33.71 deg Az: 1.36
deg TVD: 6896.69 ft



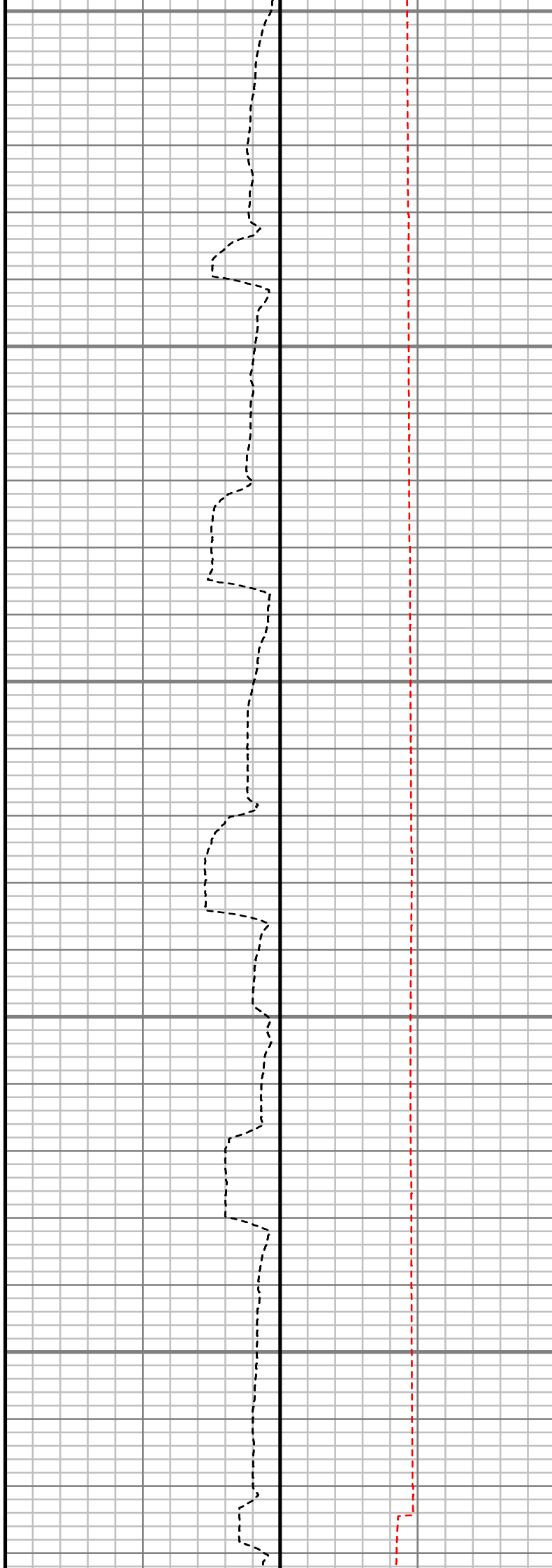
7250

7300

7350

7400

7450



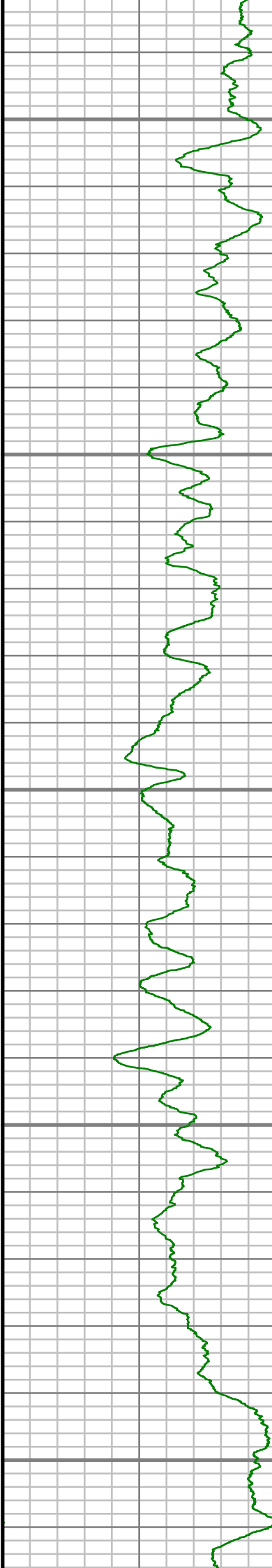
S: 85 MD: 7281.00 ft
Inc: 37.44 deg Az: 1.18
deg TVD: 6935.73 ft

S: 86 MD: 7328.00 ft
Inc: 40.89 deg Az:
359.67 deg TVD:
6972.16 ft

S: 87 MD: 7375.00 ft
Inc: 43.70 deg Az:
359.38 deg TVD:
7006.92 ft

S: 88 MD: 7422.00 ft
Inc: 46.87 deg Az:
357.83 deg TVD:
7039.99 ft

S: 89 MD: 7470.00 ft
Inc: 51.29 deg Az:
358.06 deg TVD:
7071.42 ft



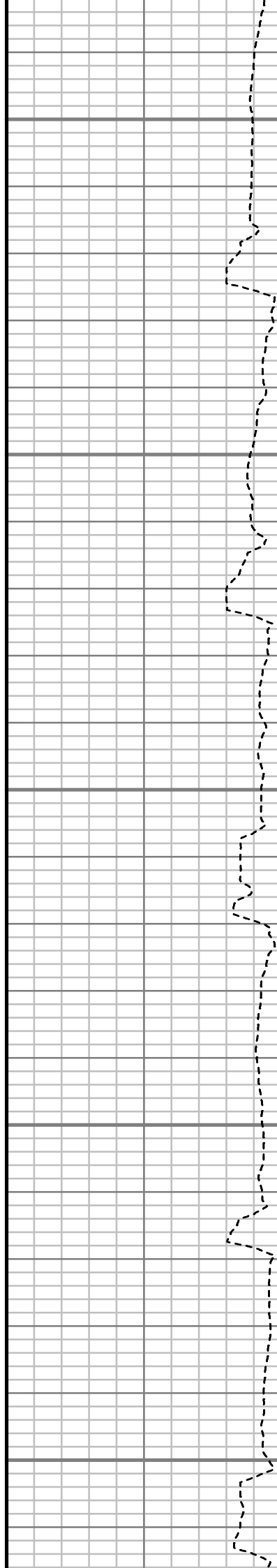
7500

7550

7600

7650

7700



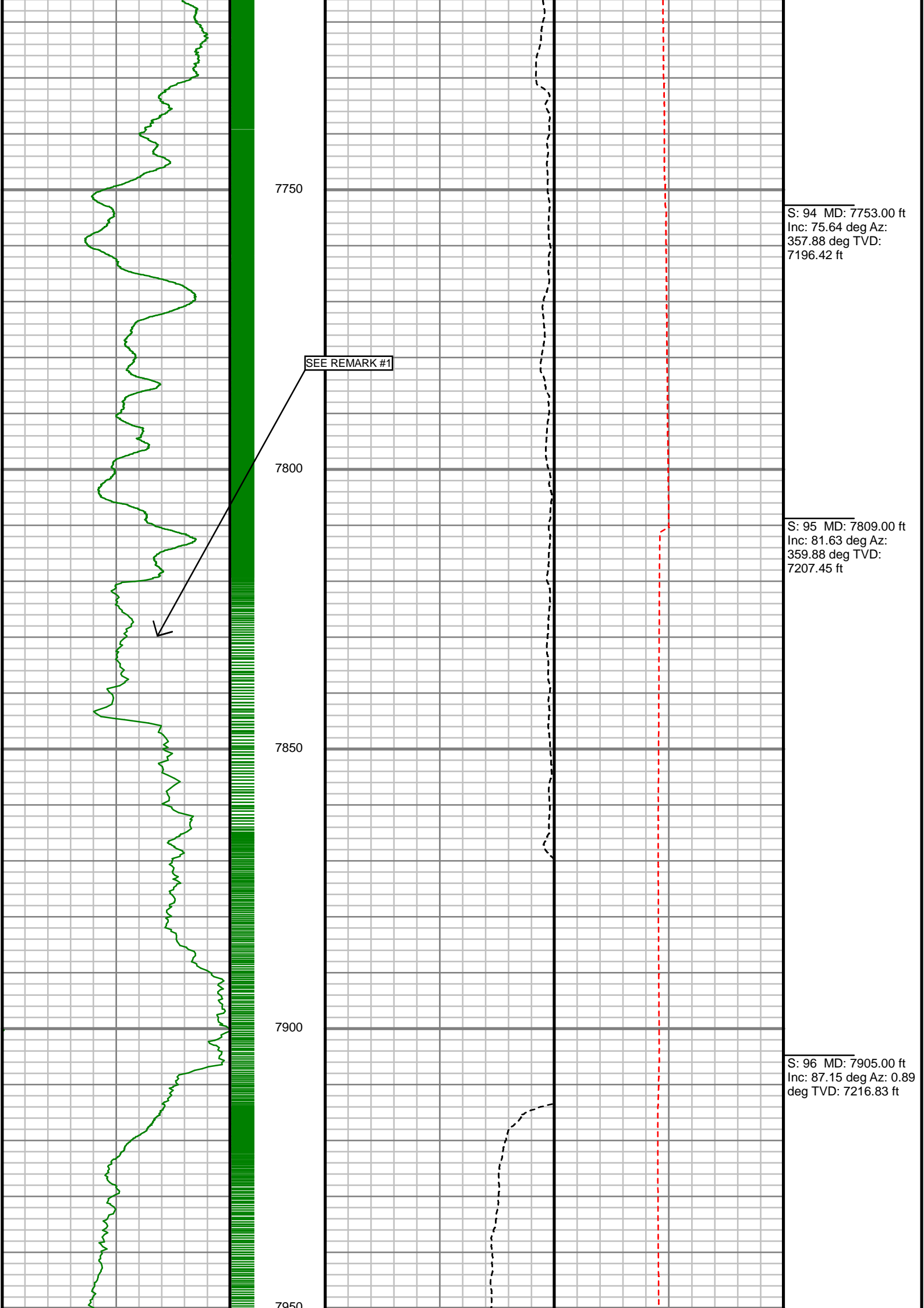
S: 90 MD: 7517.00 ft
Inc: 56.04 deg Az:
357.76 deg TVD:
7099.27 ft

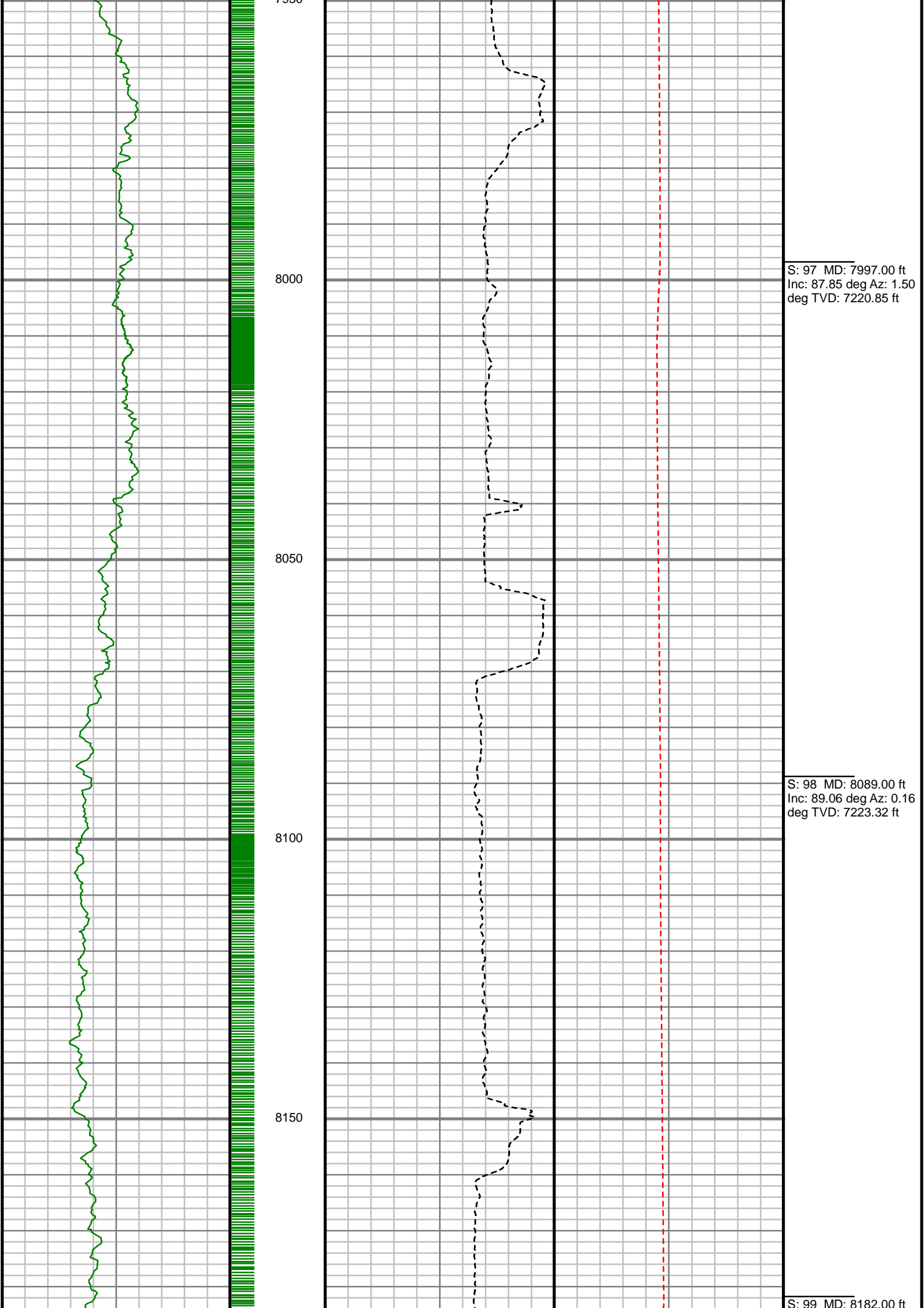
S: 91 MD: 7564.00 ft
Inc: 60.25 deg Az:
357.89 deg TVD:
7124.07 ft

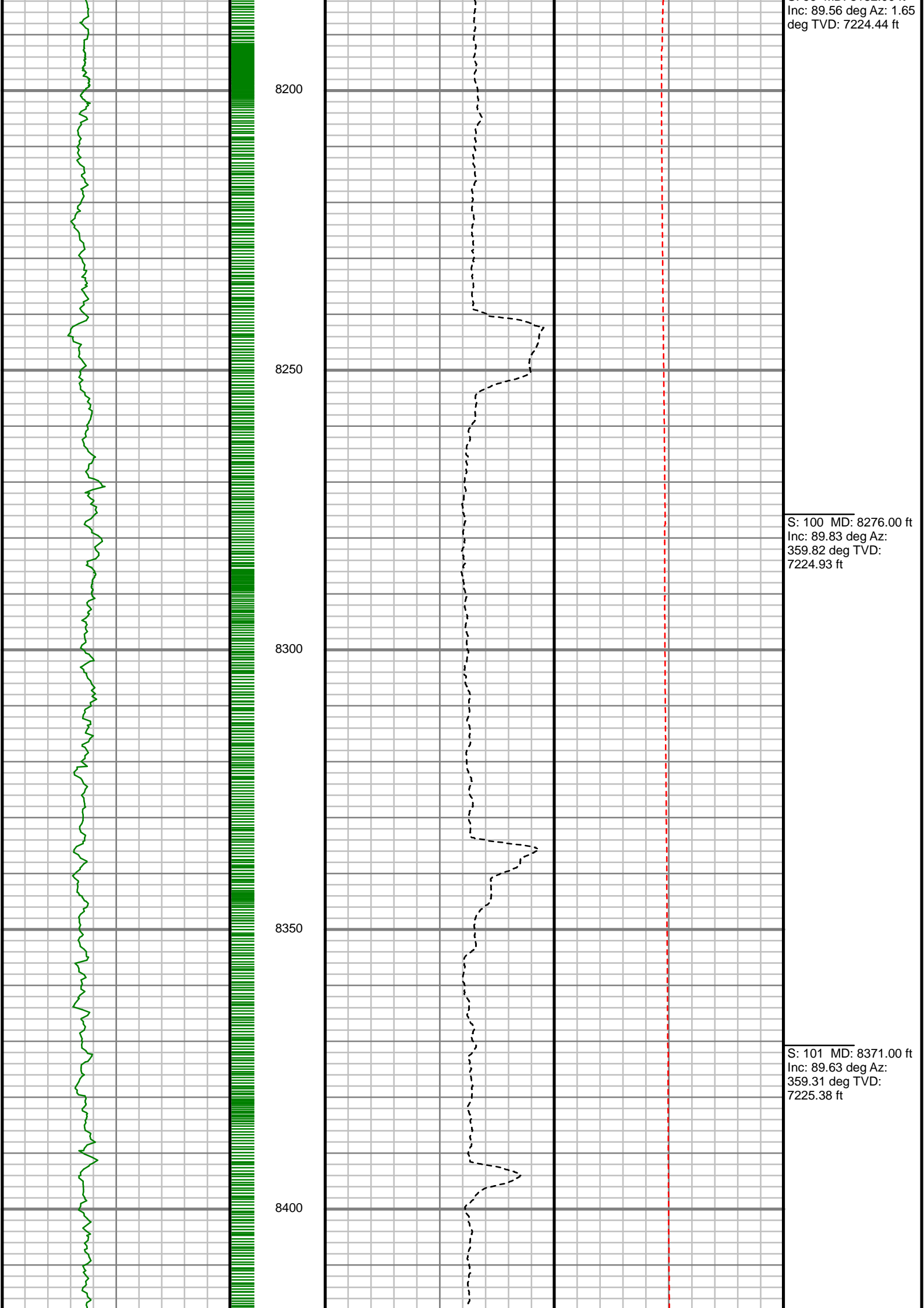
S: 92 MD: 7611.00 ft
Inc: 63.79 deg Az:
357.46 deg TVD:
7146.11 ft

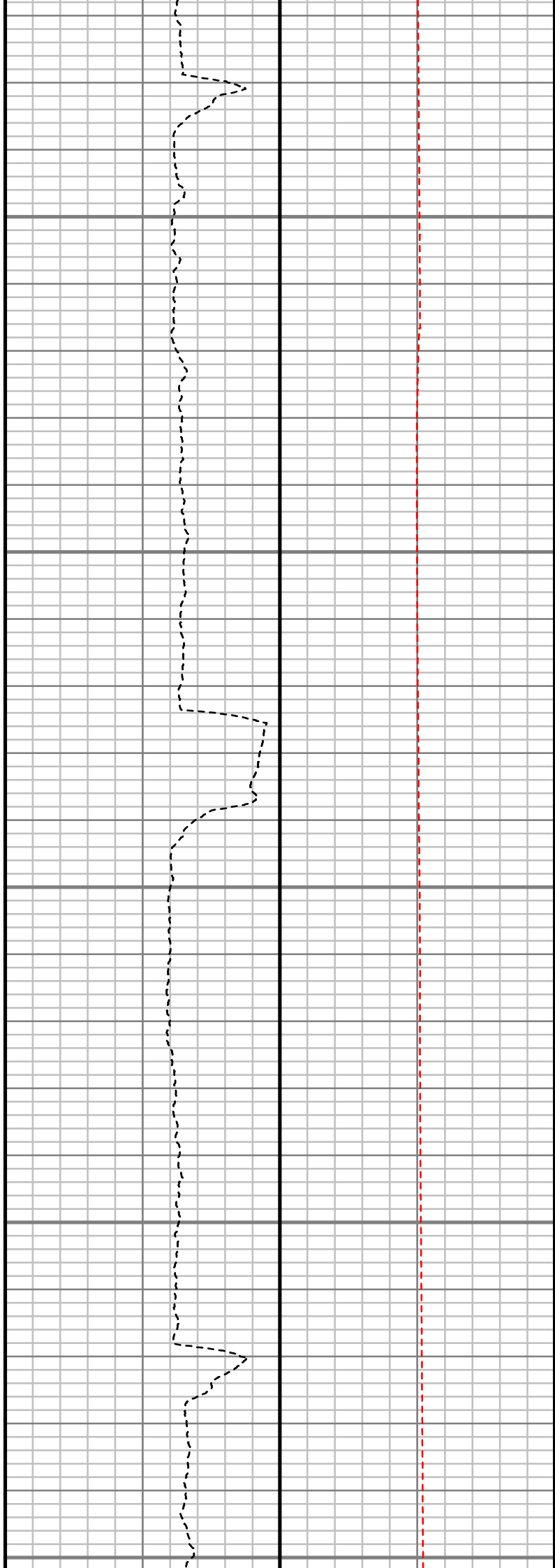
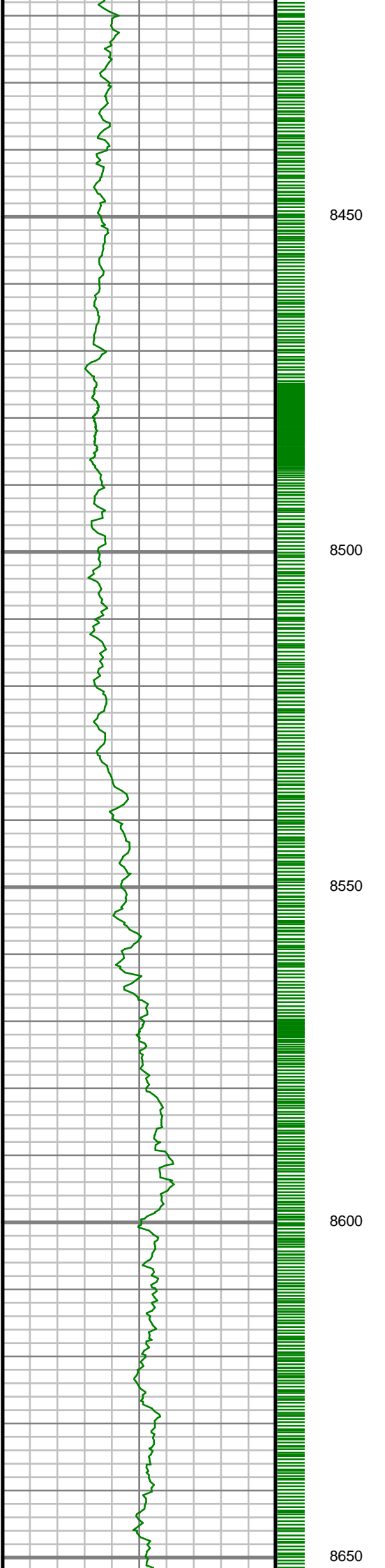
S: 93 MD: 7659.00 ft
Inc: 66.79 deg Az:
356.31 deg TVD:
7166.18 ft





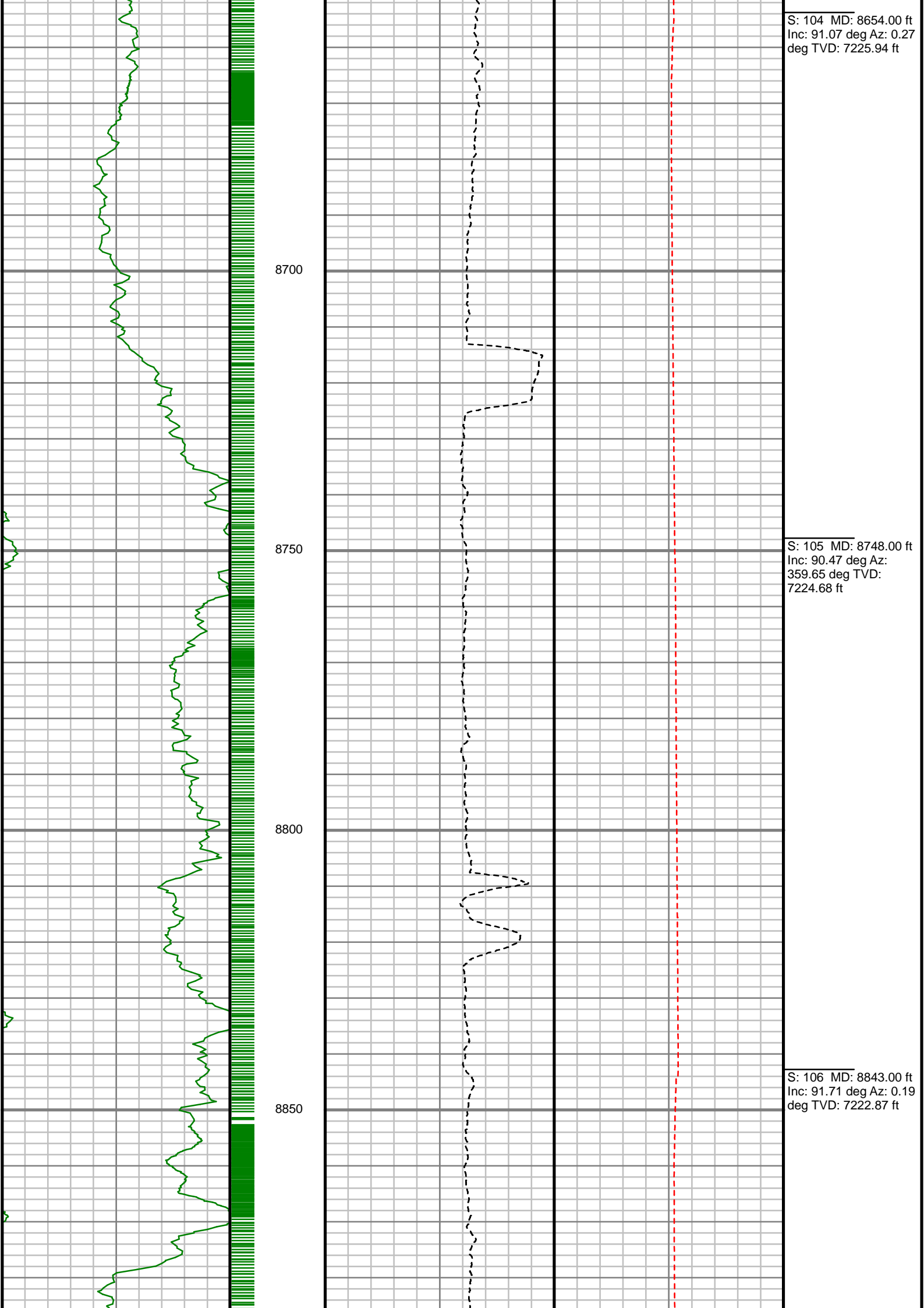


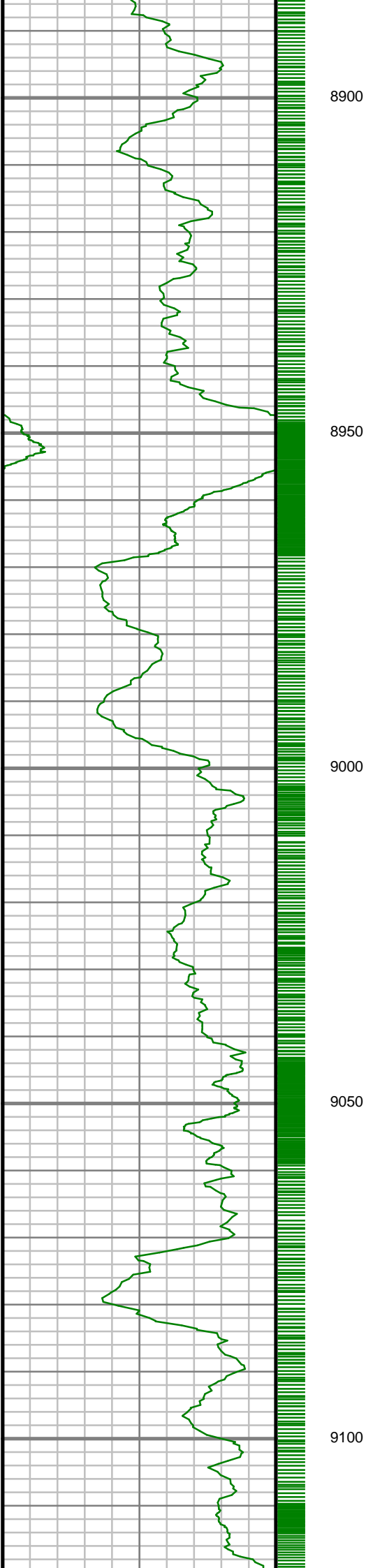




S: 102 MD: 8465.00 ft
Inc: 88.96 deg Az: 357.52 deg TVD: 7226.54 ft

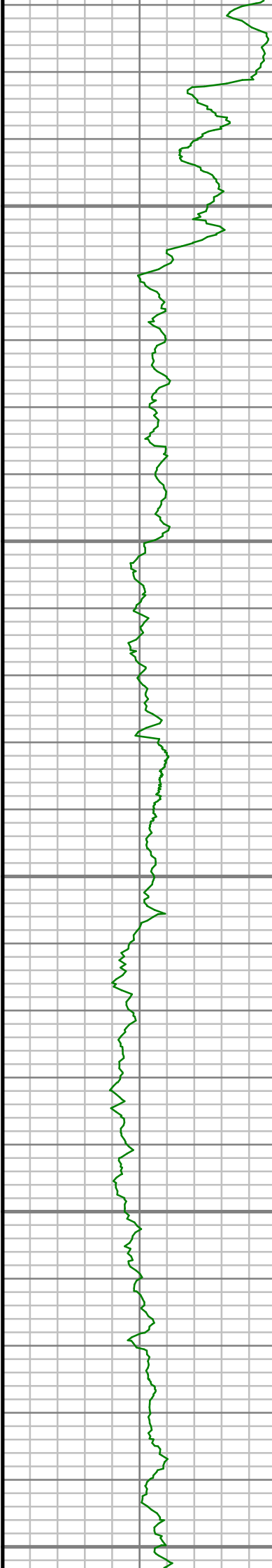
S: 103 MD: 8559.00 ft
Inc: 90.34 deg Az: 0.48 deg TVD: 7227.11 ft





S: 107 MD: 8938.00 ft
Inc: 91.88 deg Az:
359.35 deg TVD:
7219.89 ft

S: 108 MD: 9033.00 ft
Inc: 90.87 deg Az:
359.58 deg TVD:
7217.60 ft



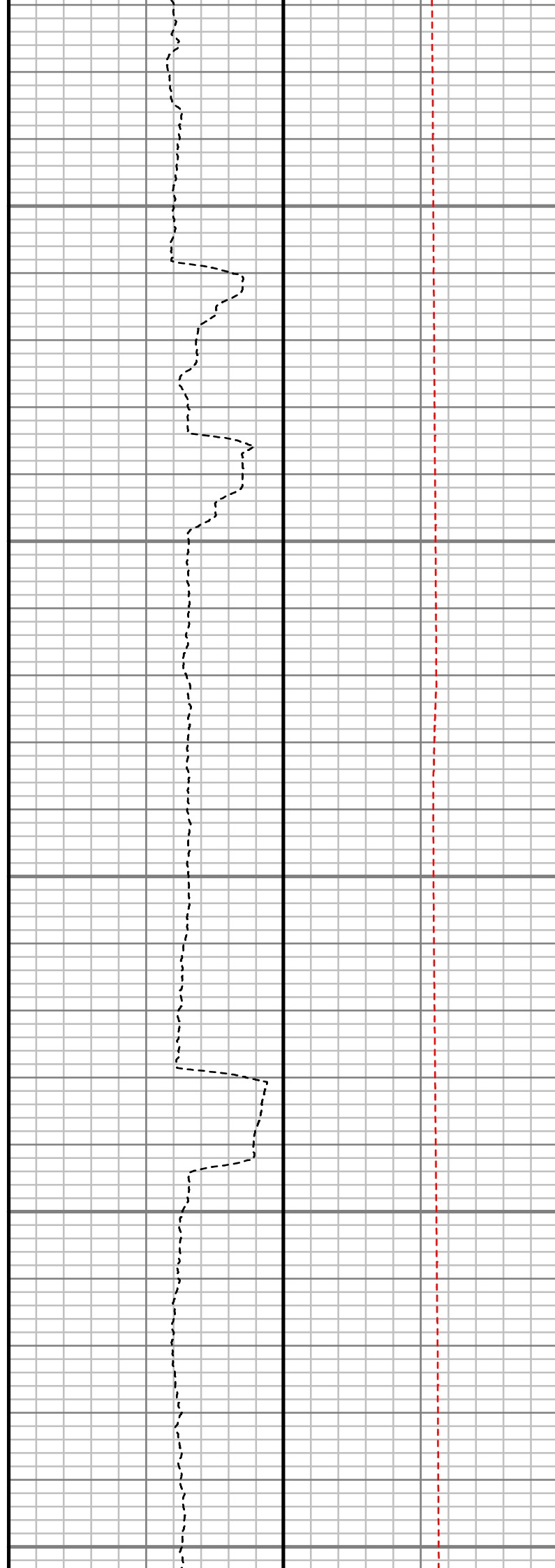
9150

9200

9250

9300

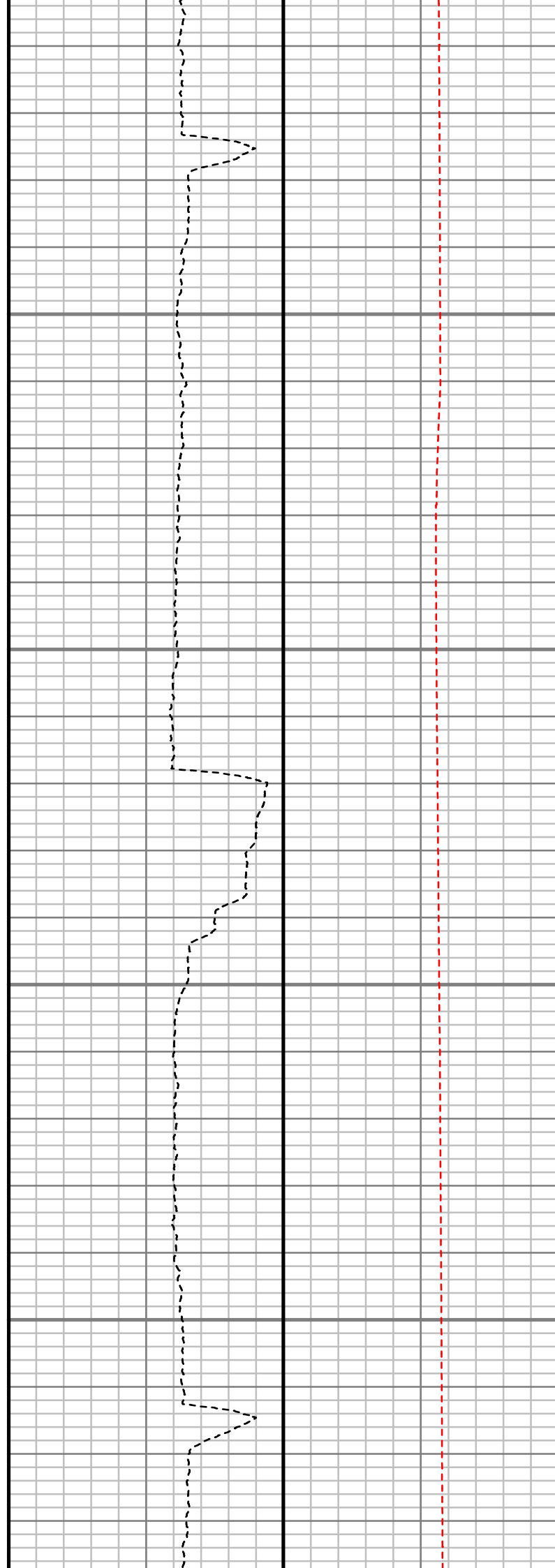
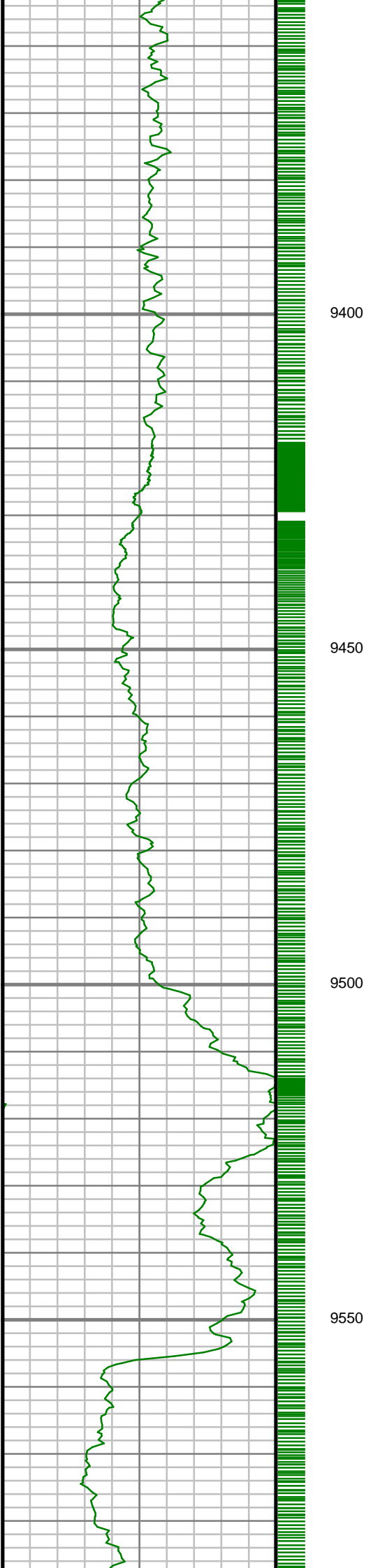
9350



S: 109 MD: 9127.00 ft
Inc: 89.26 deg Az:
359.14 deg TVD:
7217.49 ft

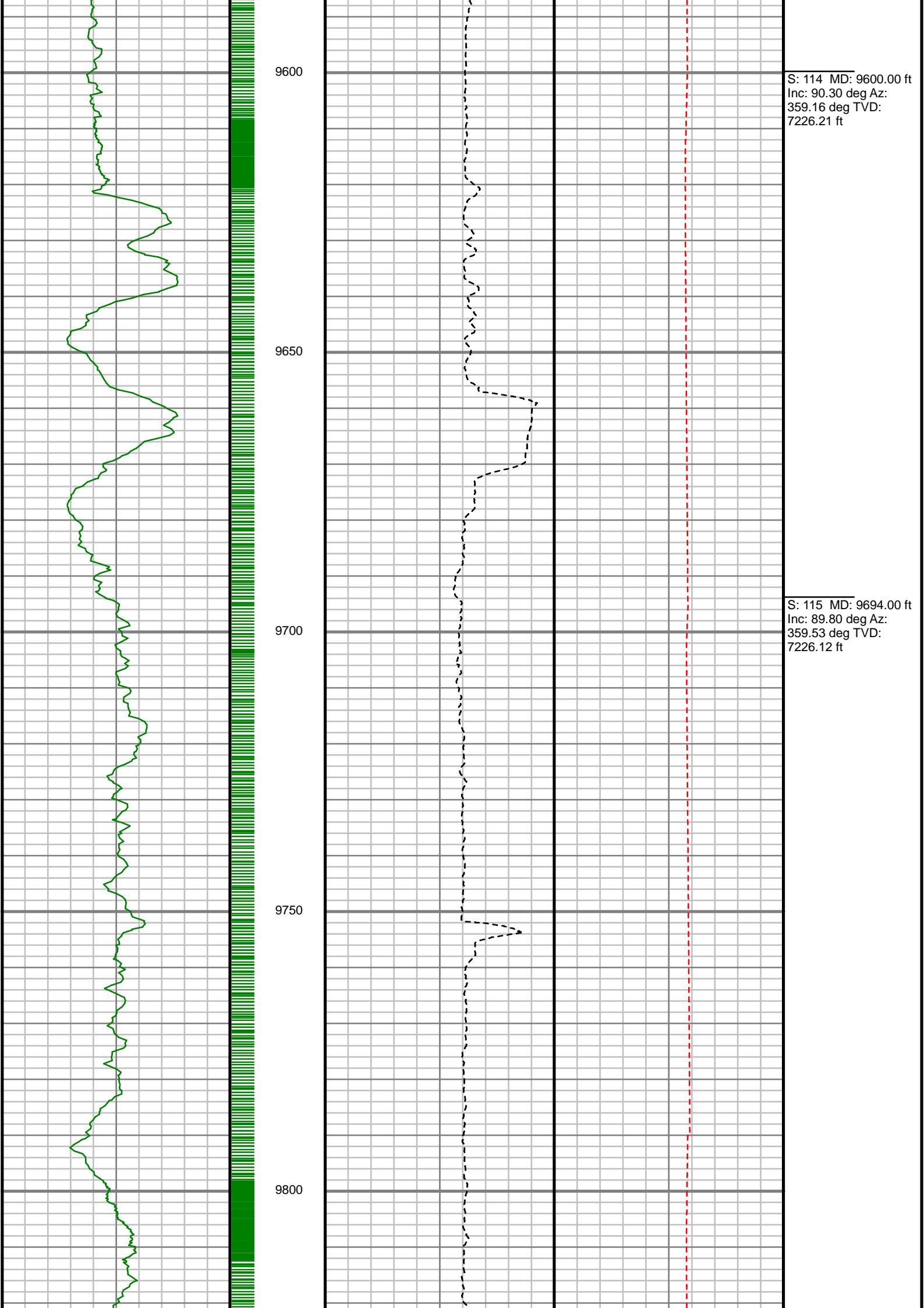
S: 110 MD: 9222.00 ft
Inc: 90.00 deg Az:
359.18 deg TVD:
7218.10 ft

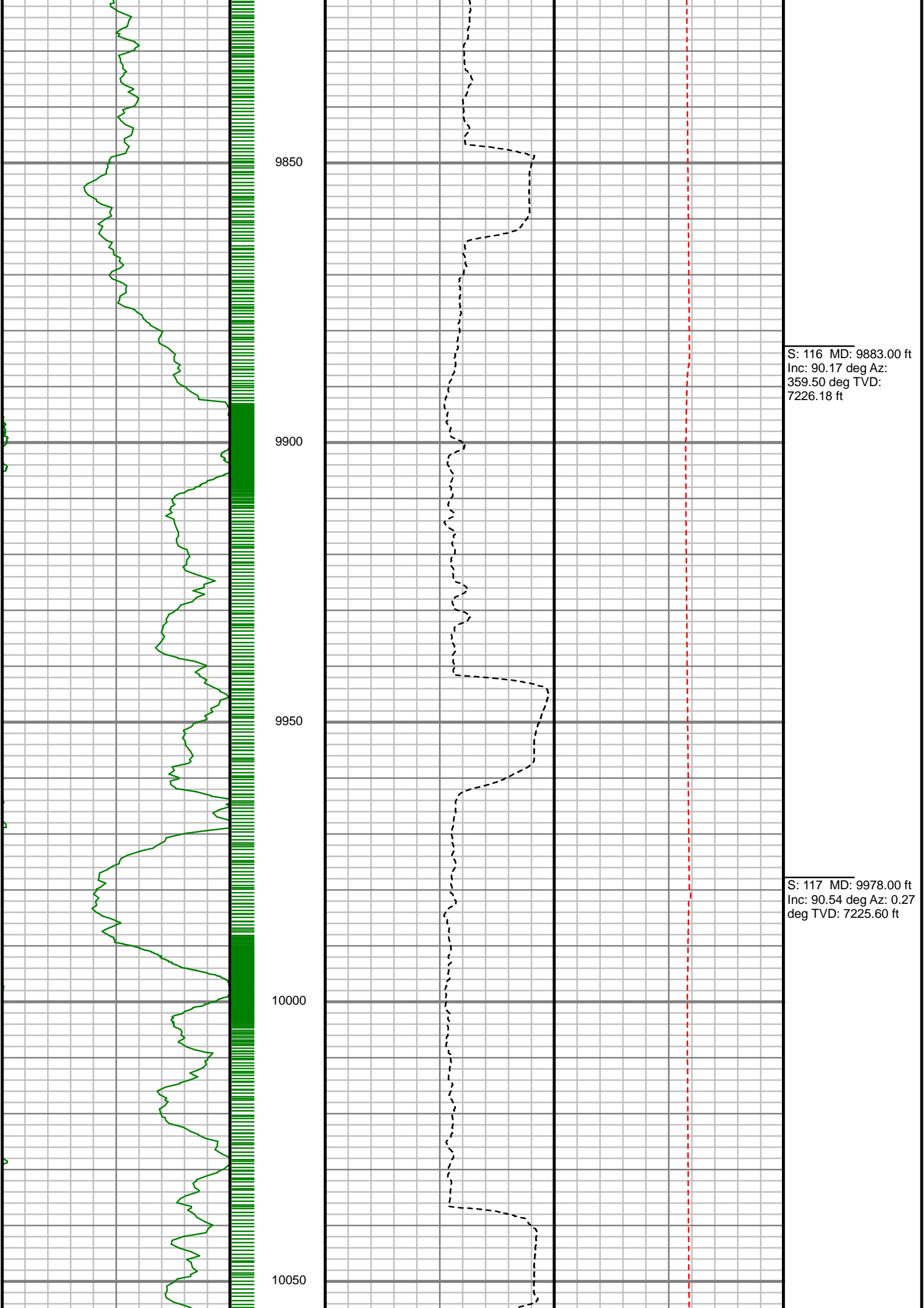
S: 111 MD: 9316.00 ft
Inc: 88.76 deg Az:
358.95 deg TVD:
7219.12 ft

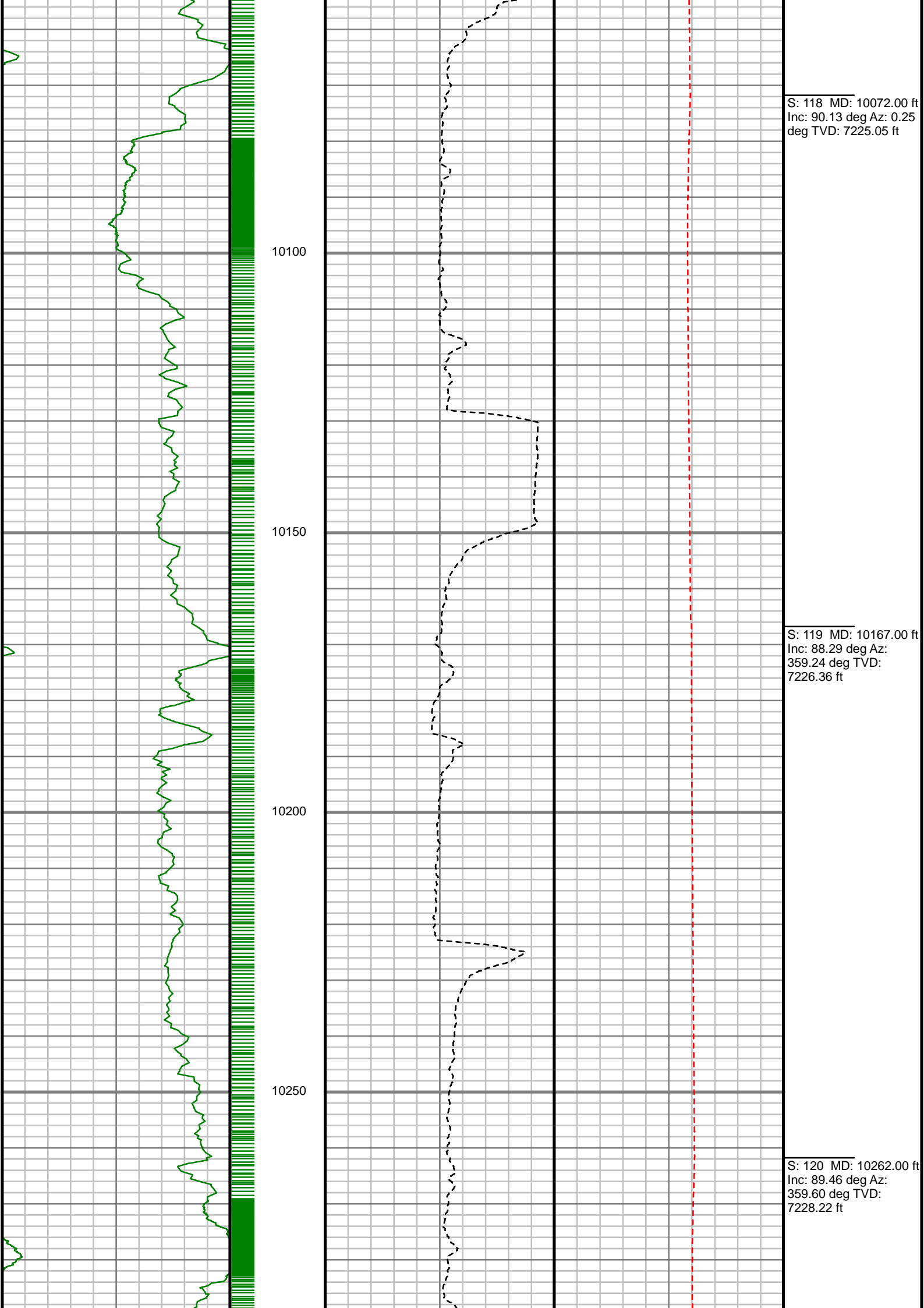


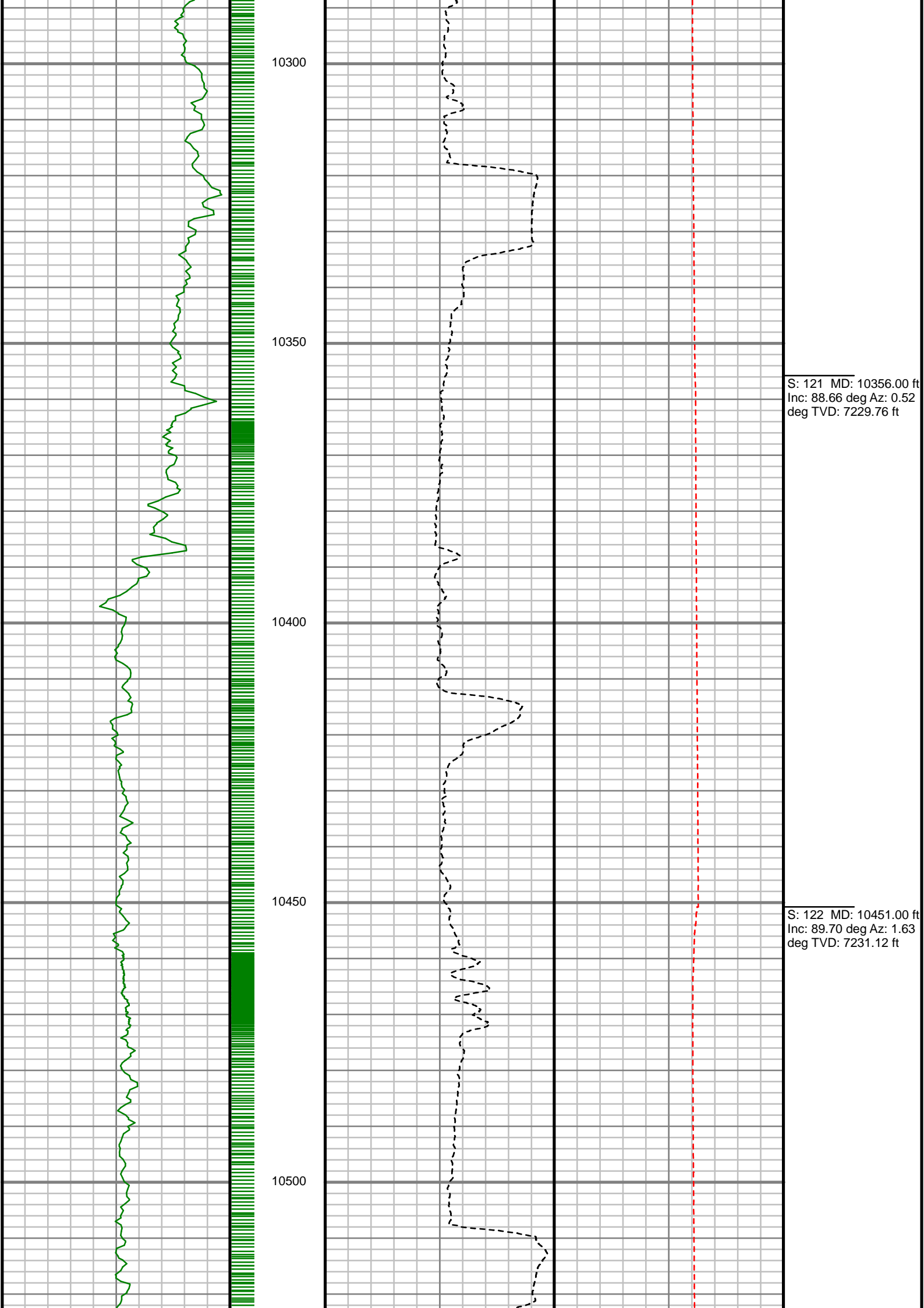
S: 112 MD: 9411.00 ft
Inc: 87.15 deg Az:
358.24 deg TVD:
7222.51 ft

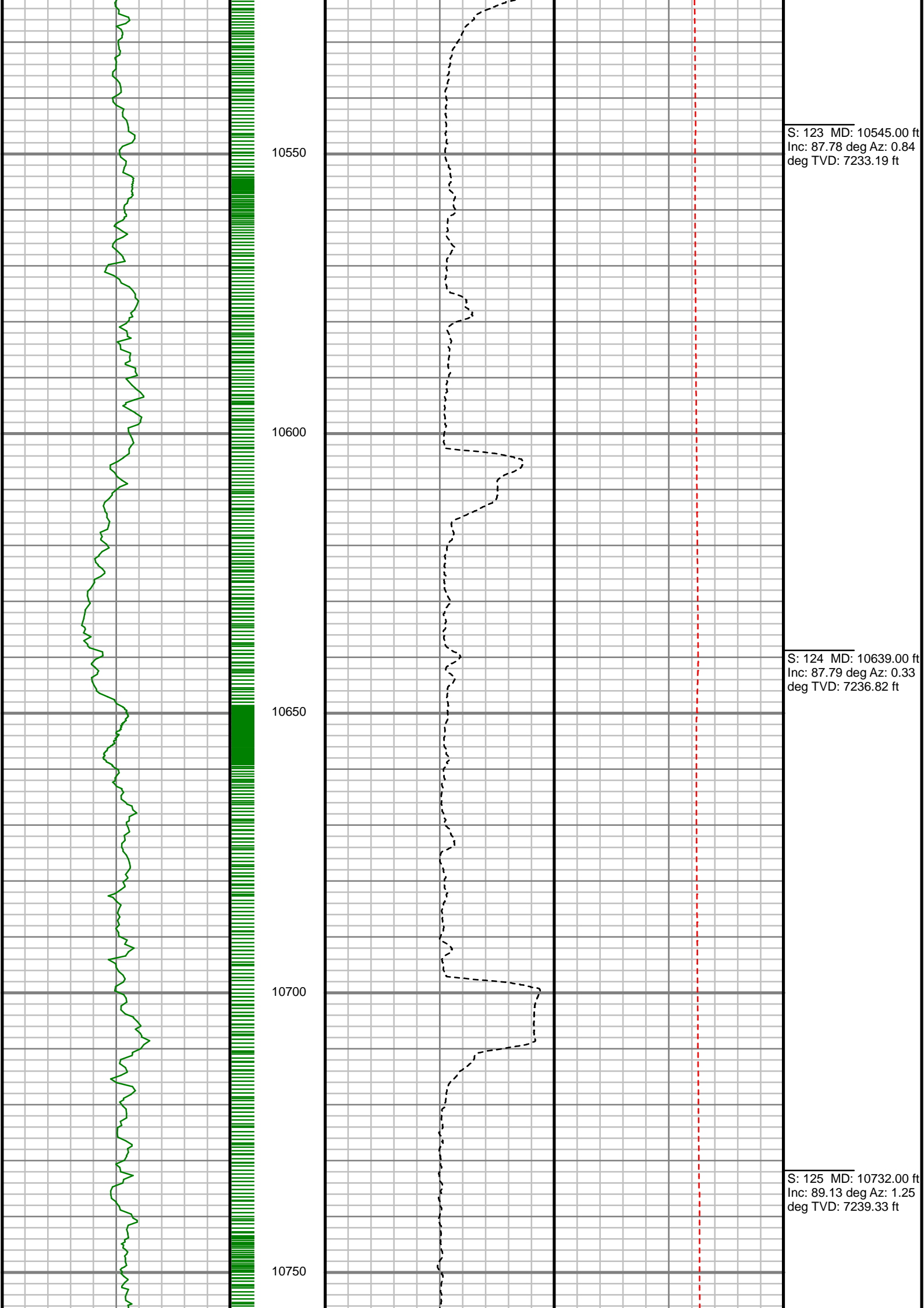
S: 113 MD: 9505.00 ft
Inc: 89.02 deg Az:
358.97 deg TVD:
7225.65 ft

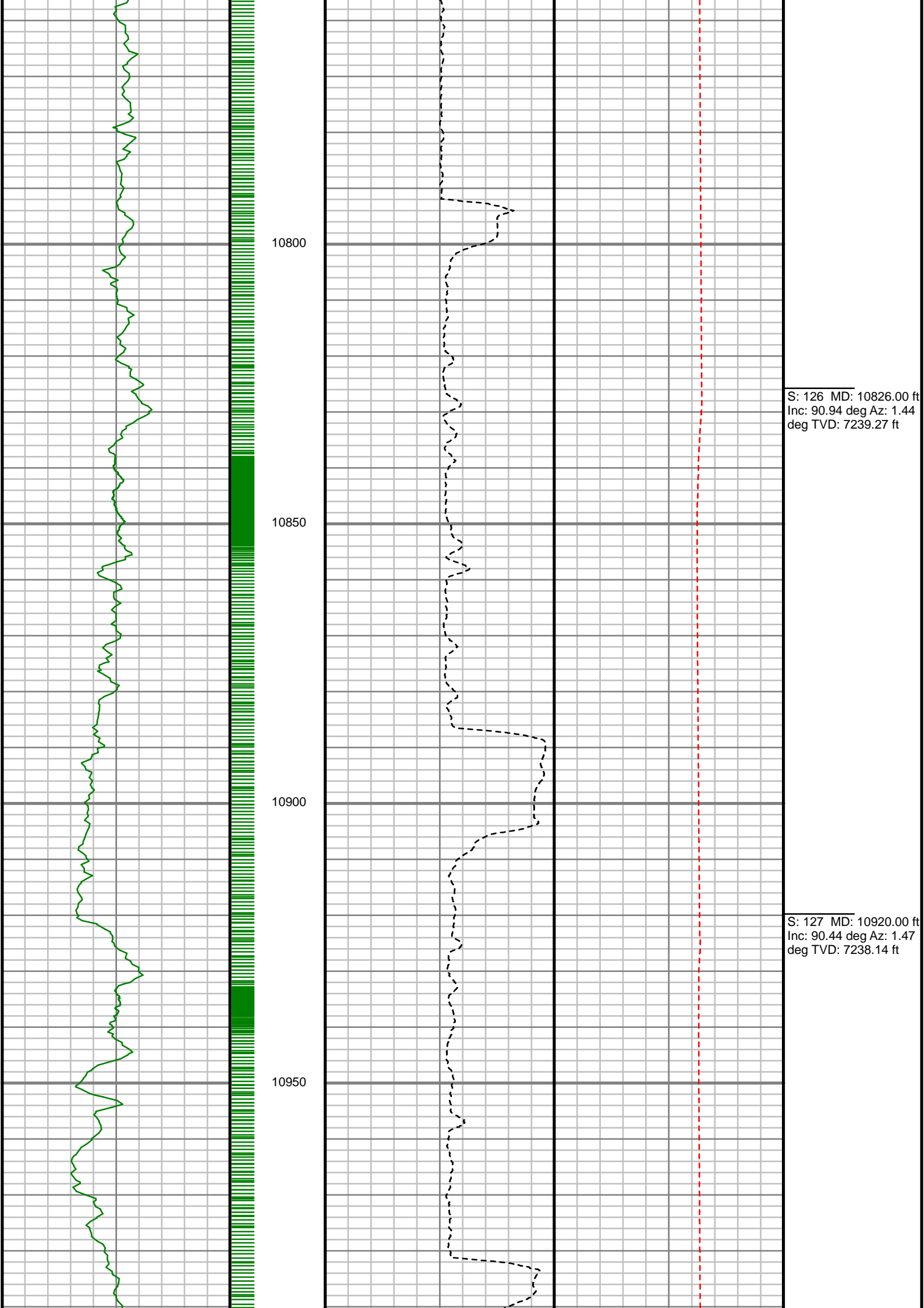


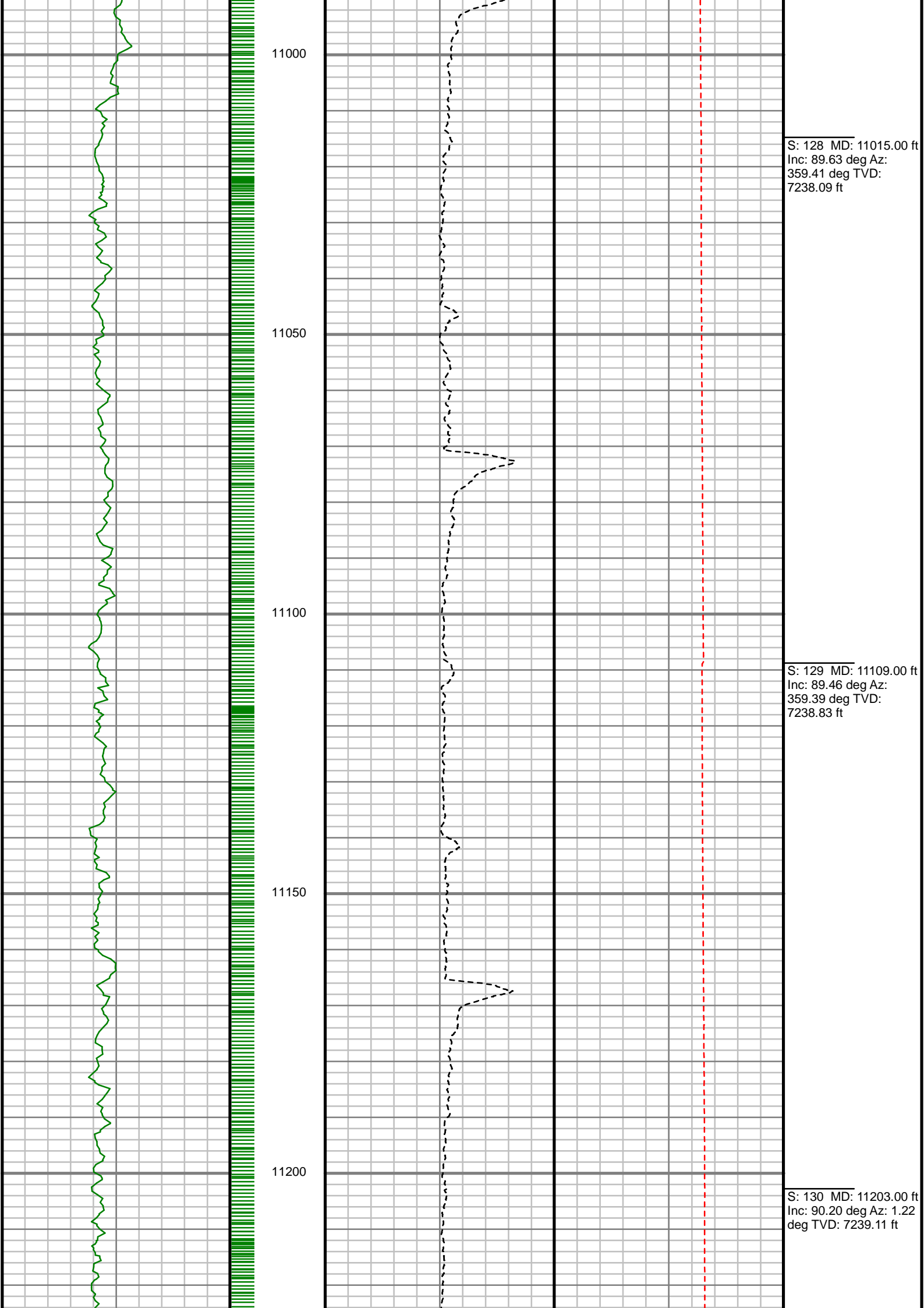


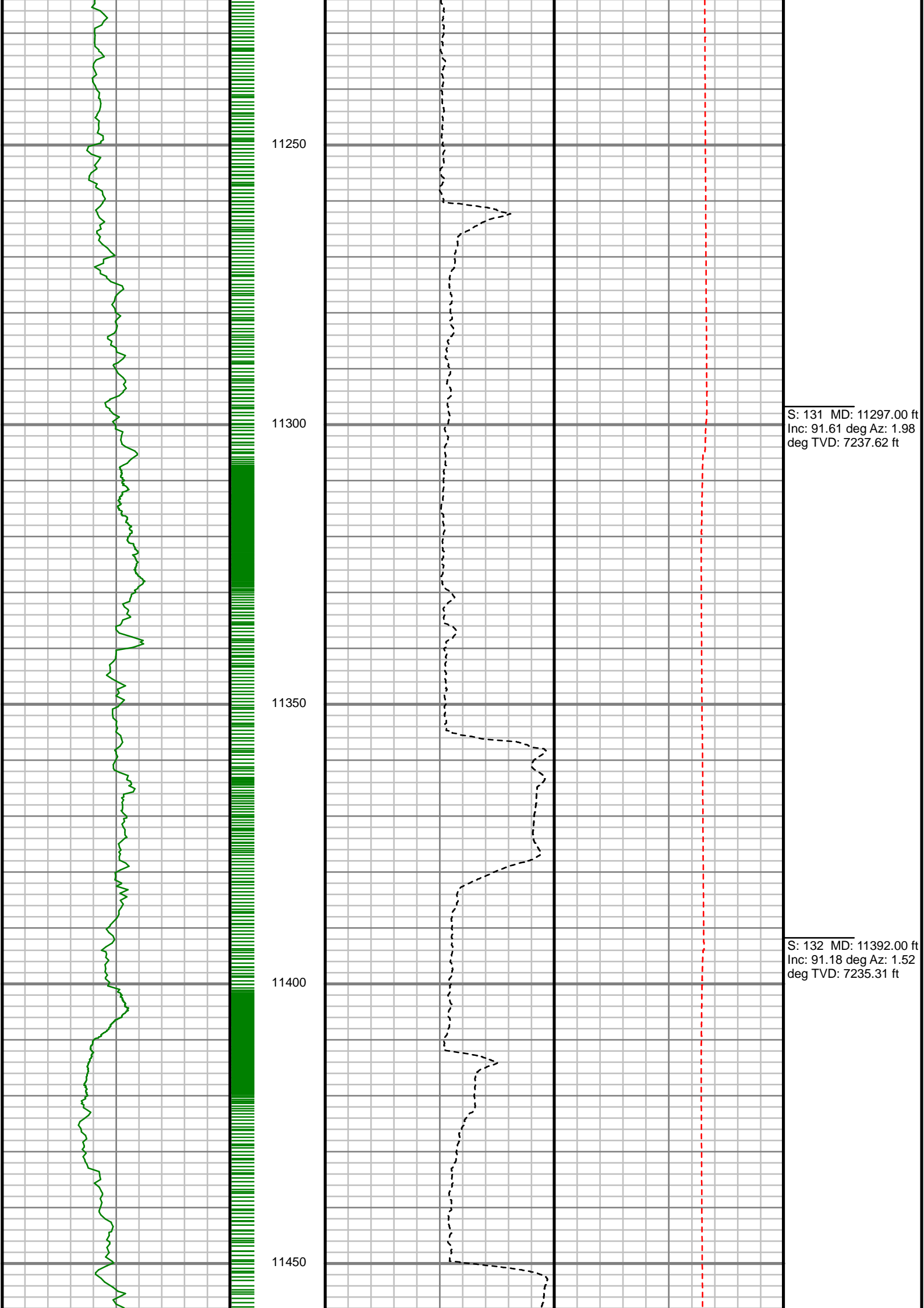


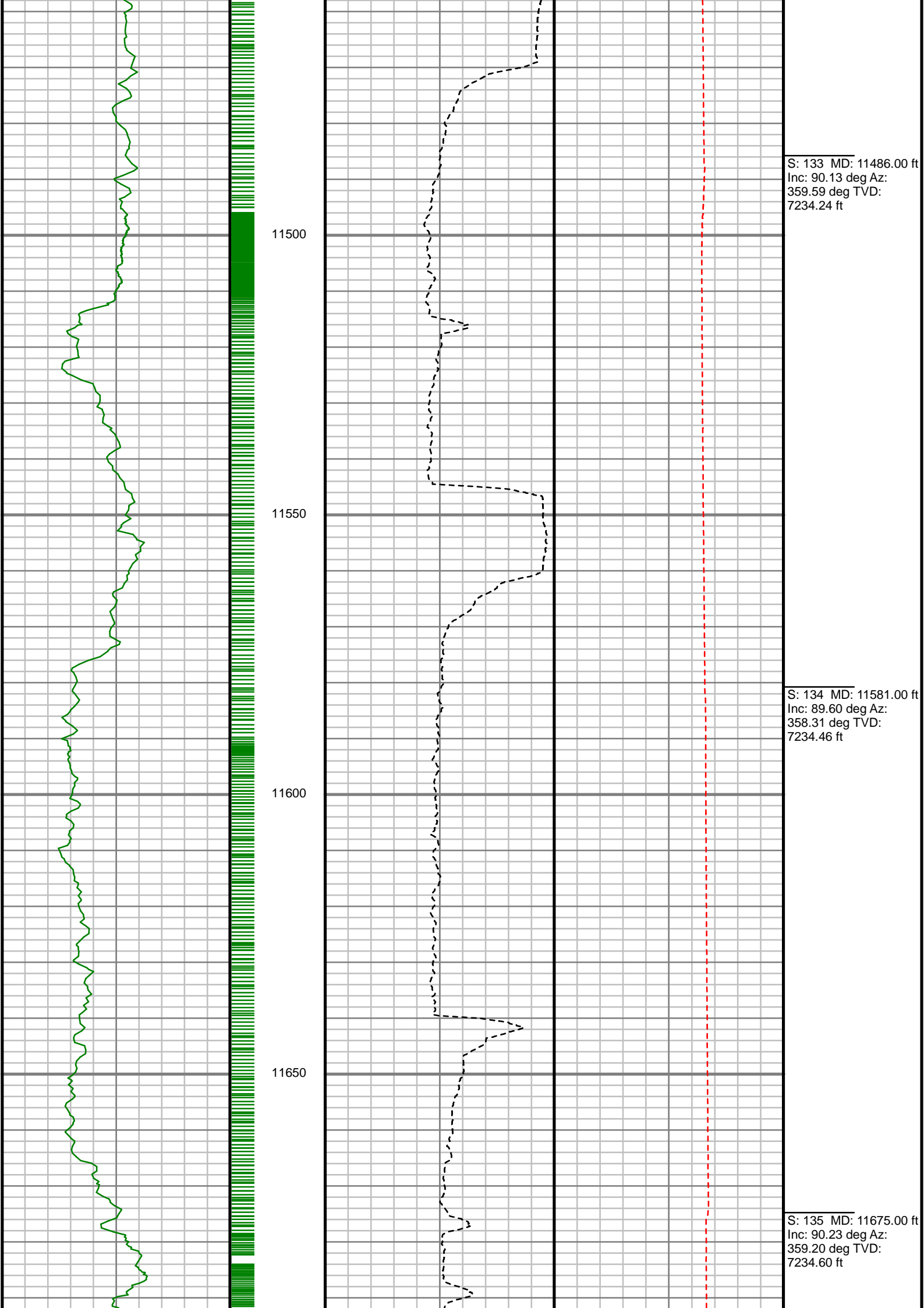


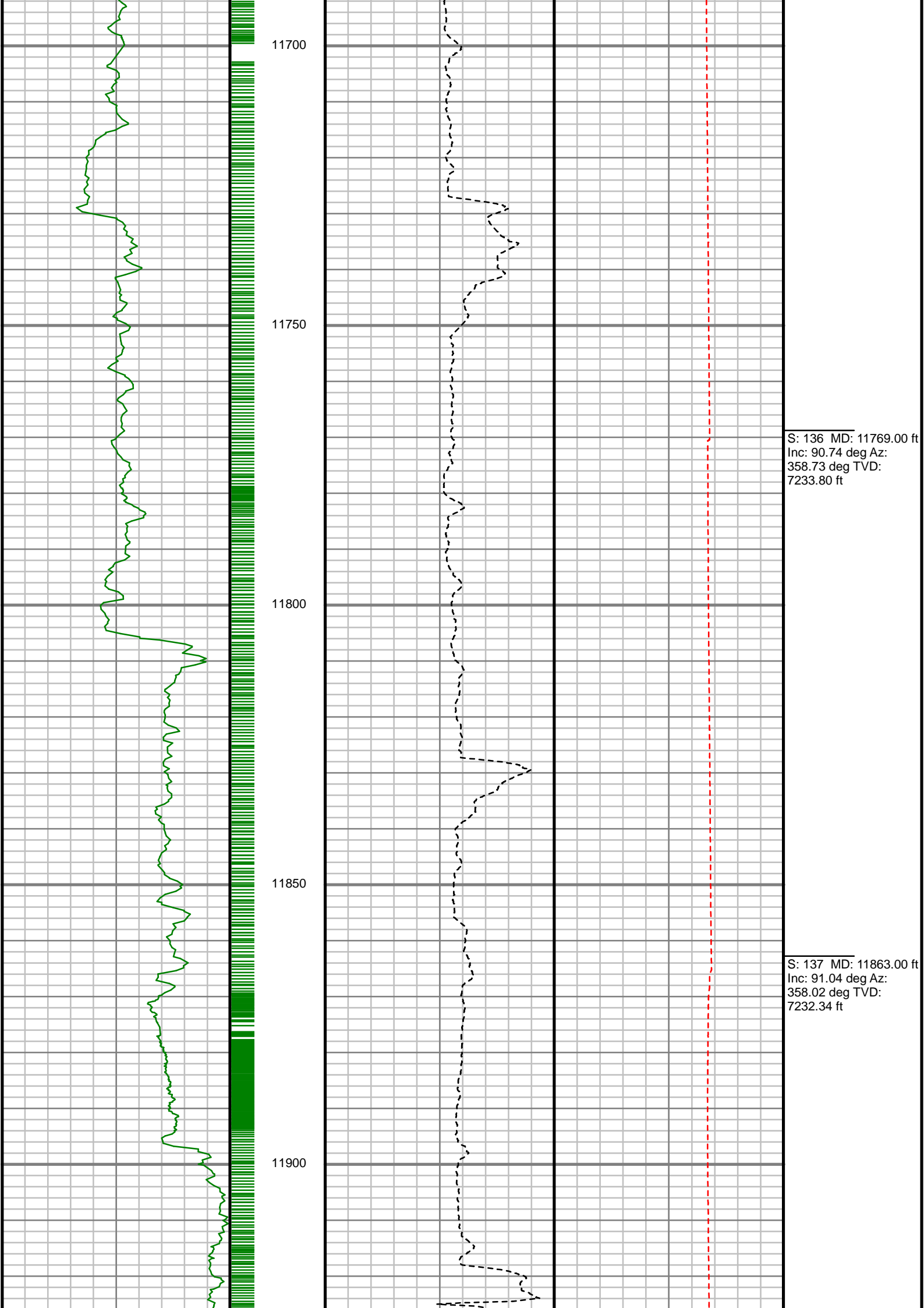


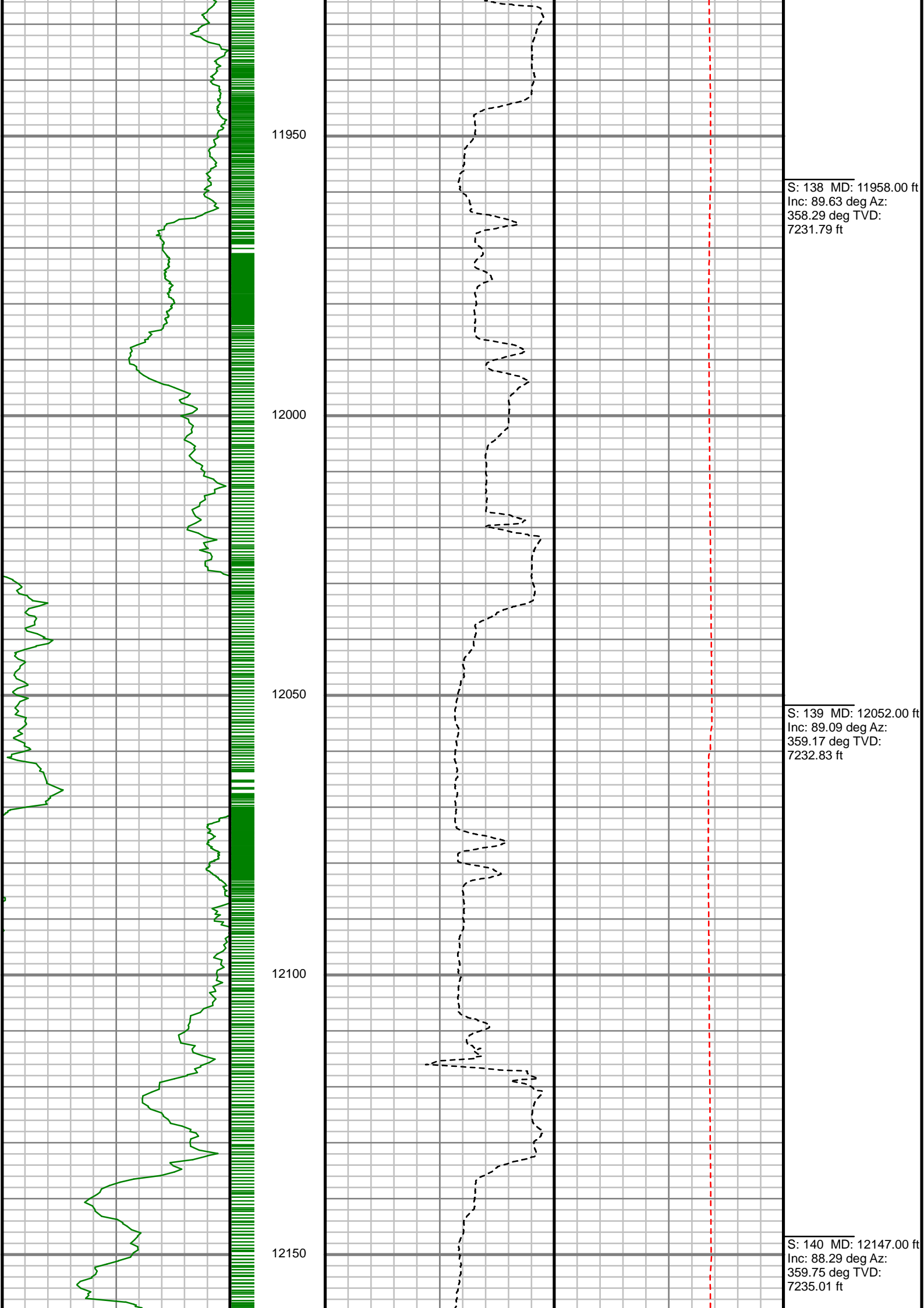


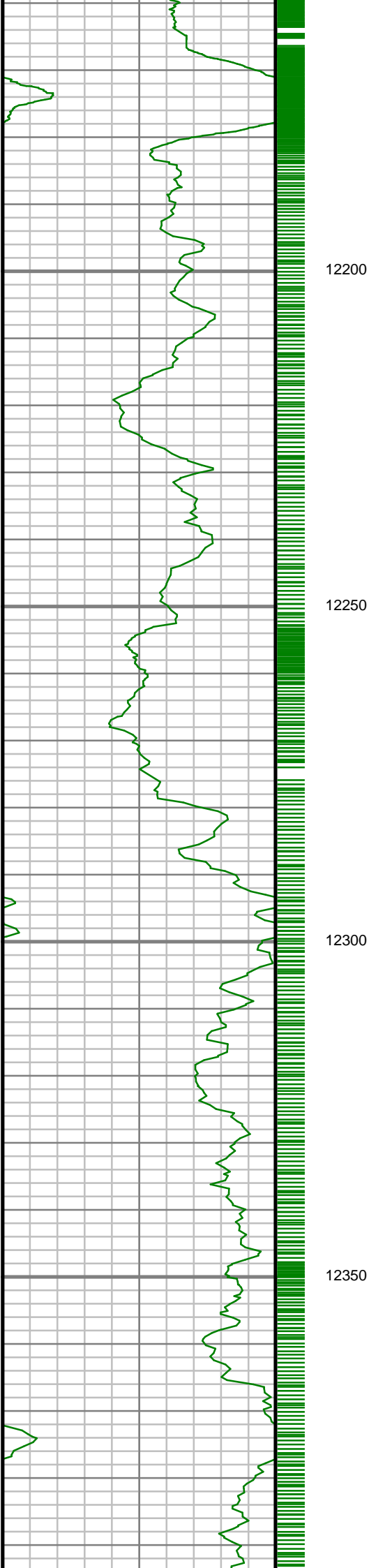






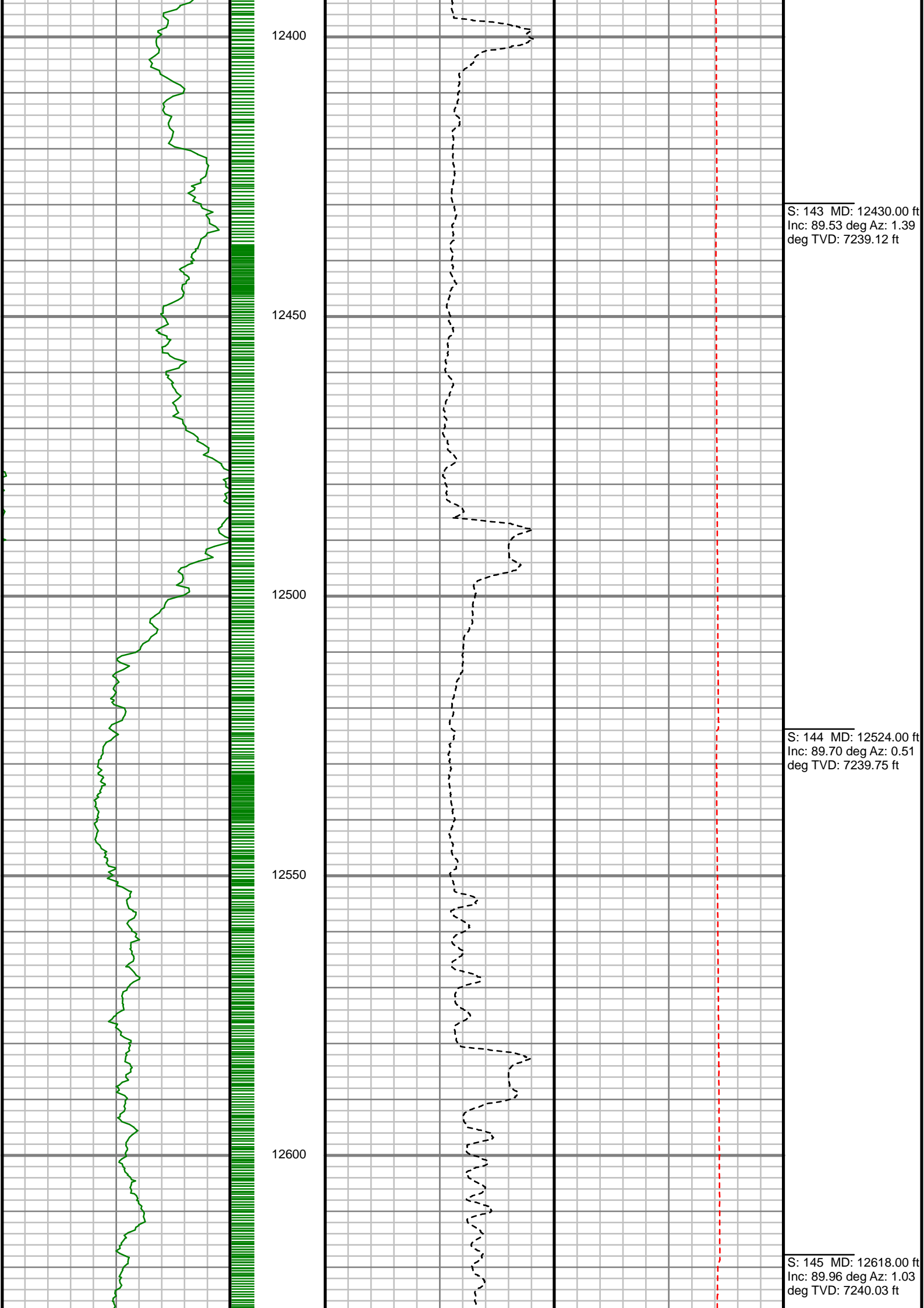


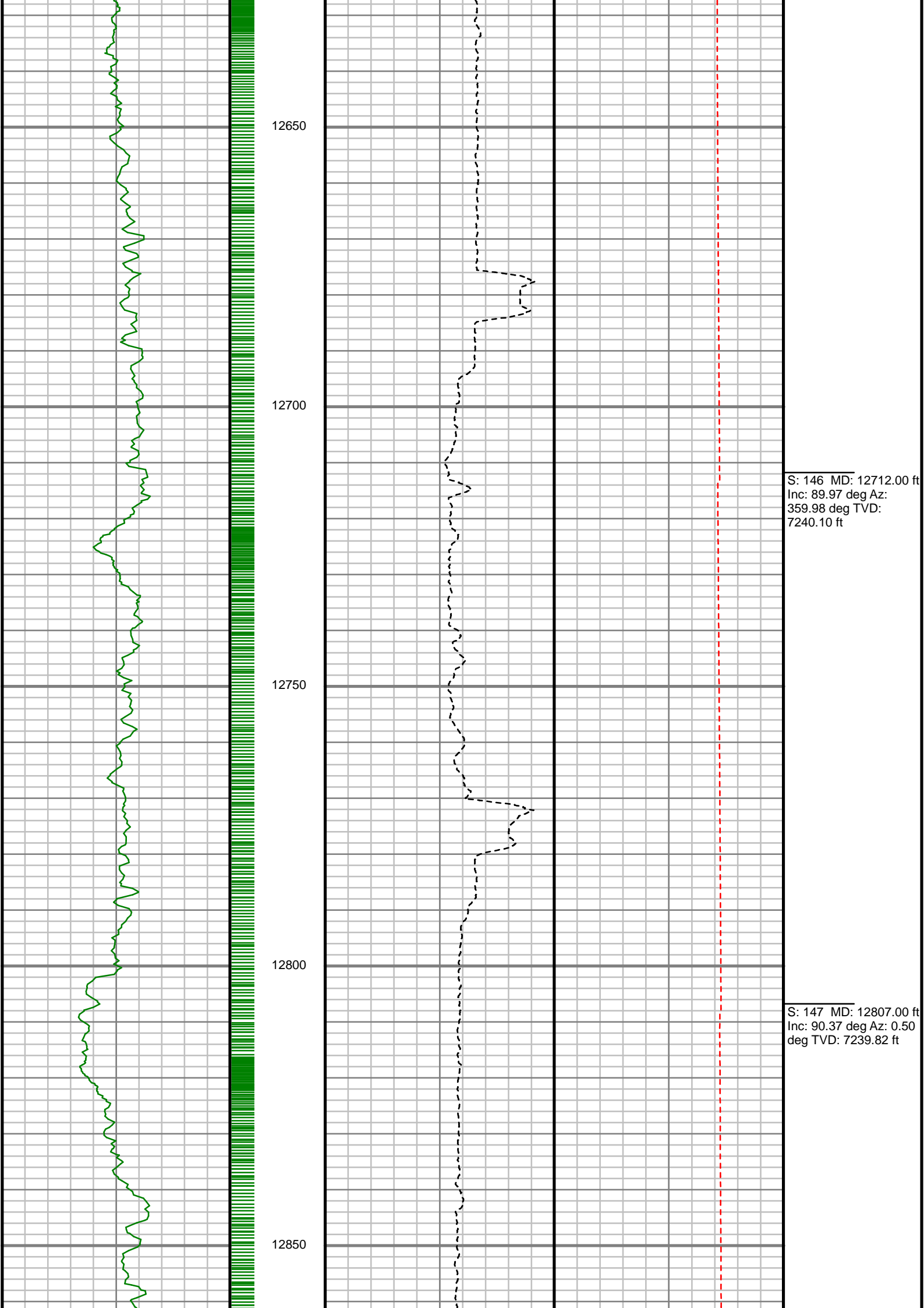


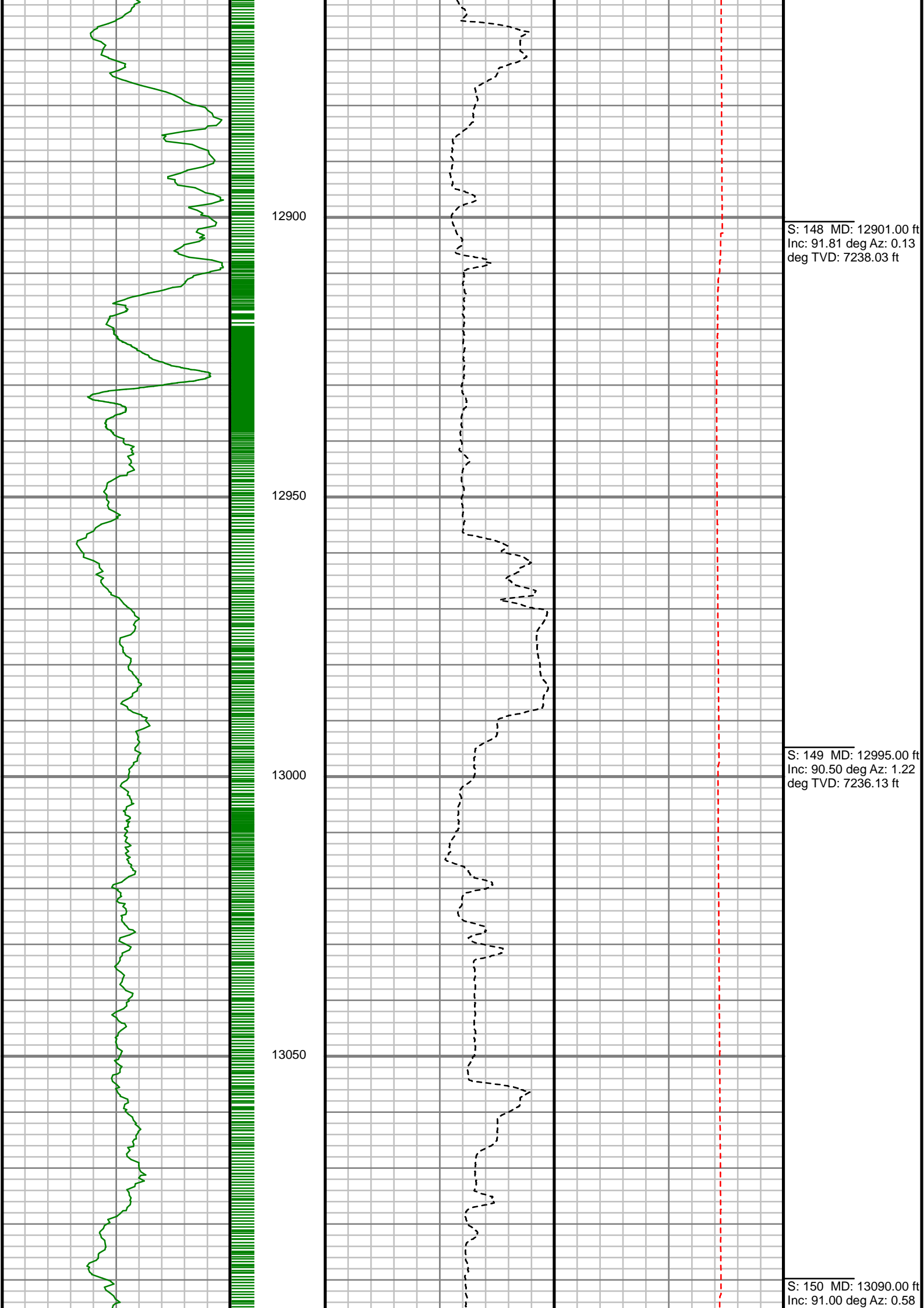


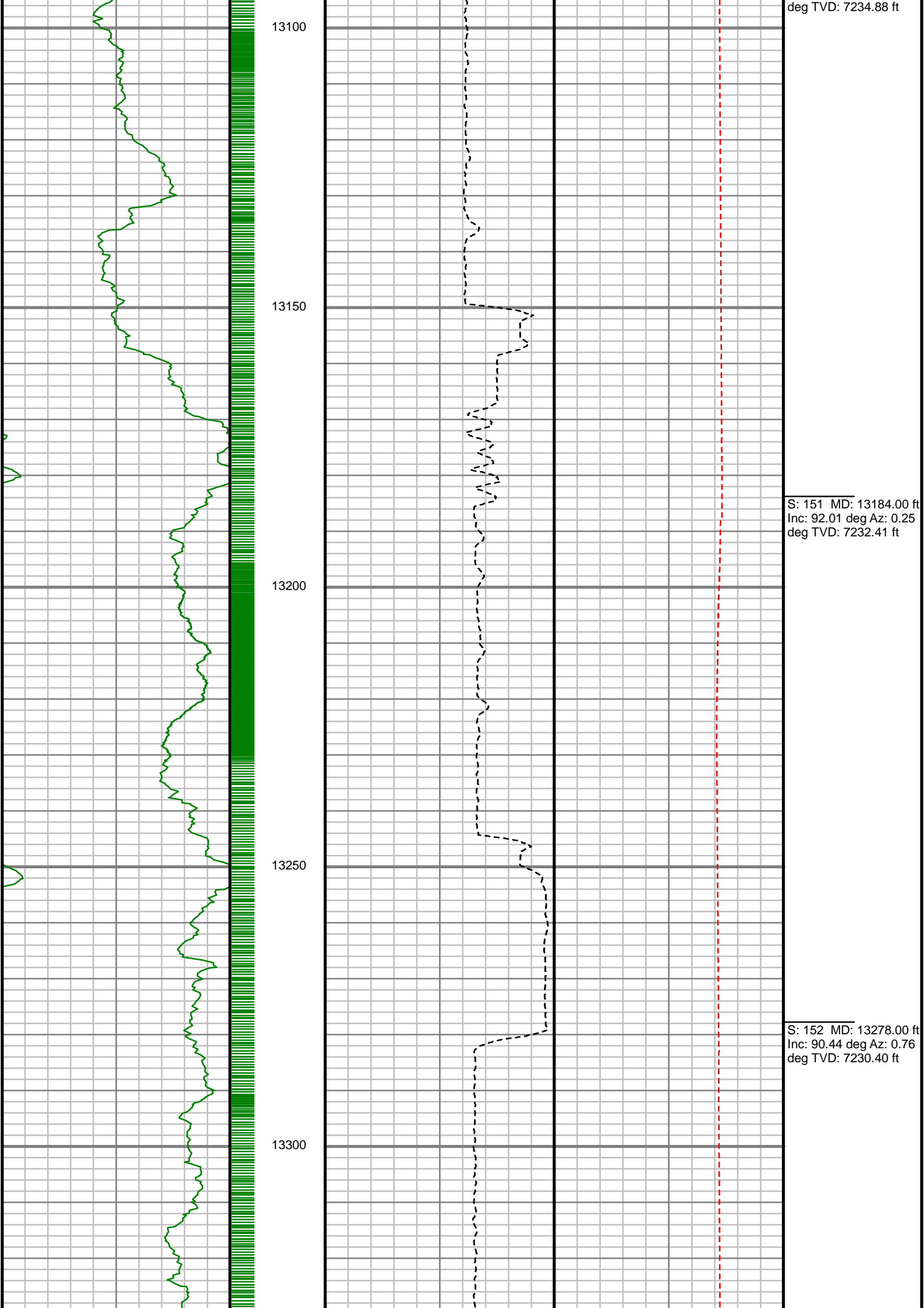
S: 141 MD: 12241.00 ft
Inc: 89.30 deg Az: 0.49
deg TVD: 7236.99 ft

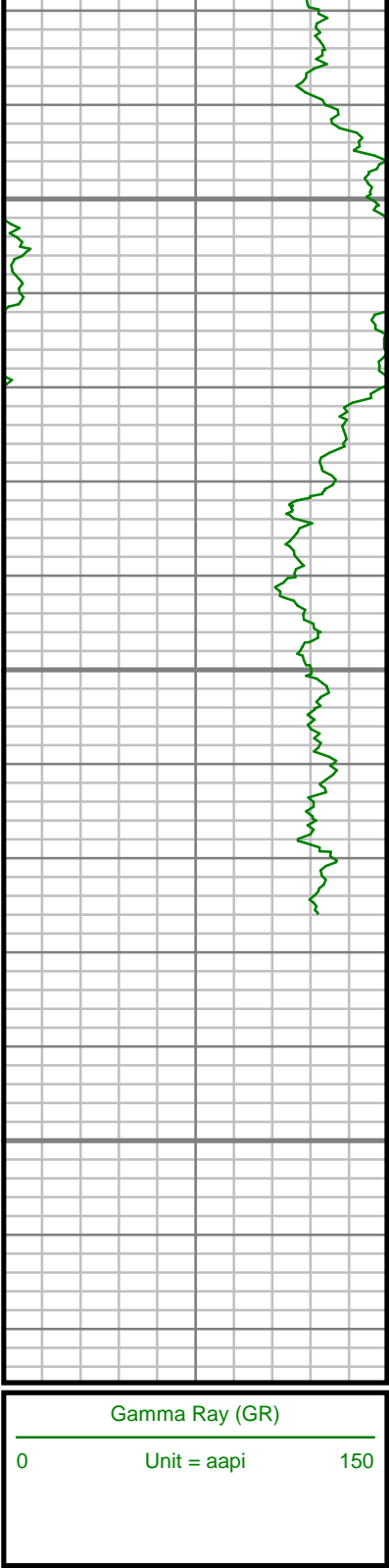
S: 142 MD: 12335.00 ft
Inc: 89.30 deg Az: 1.22
deg TVD: 7238.14 ft









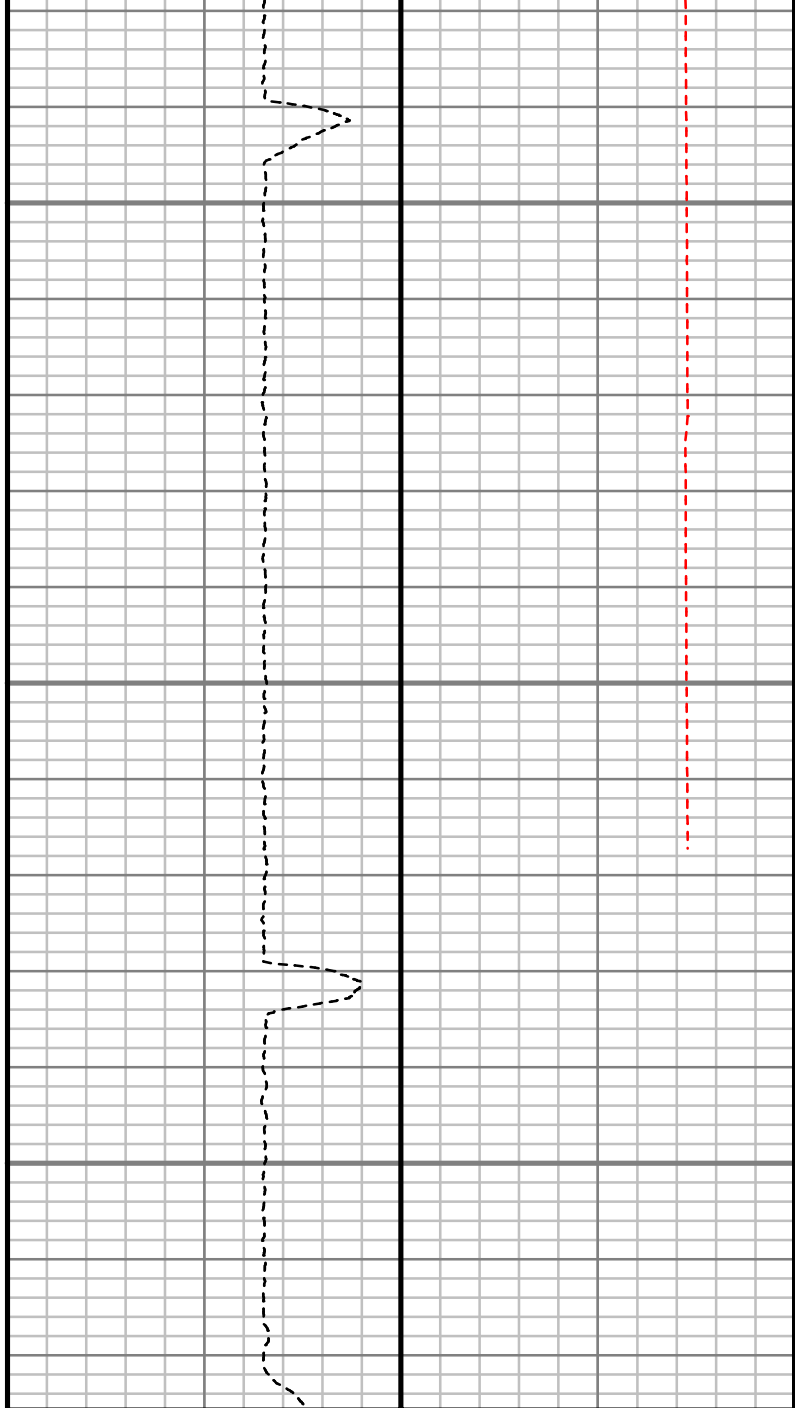


MEASURED DEPTH
1:240 (ft)

13350

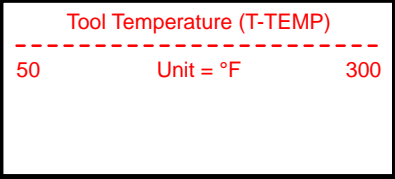
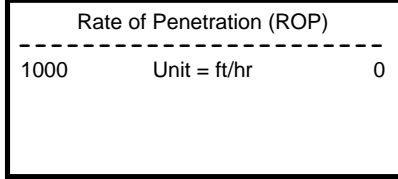
13400

13450



S: 153 MD: 13373.00 ft
Inc: 90.74 deg Az: 0.41
deg TVD: 7229.42 ft

S: 154 MD: 13416.00 ft
Inc: 89.73 deg Az:
359.80 deg TVD:
7229.25 ft



Comments

Well Location	GOODIN PAD
Well Name	GOODIN 38N-B6HZ
Survey Date	1/30/2015
Latitude	40°3'35.438"N
Longitude	104°42'7.902"W
Btotal	52653, 52699, 52748 nT
Dip	66.48, 66.51, 66.54 deg
Magnetic Declination	8.06, 8.09, 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), 0.03Azim (deg)
Operator(s)	B. MILBURN, C. COLLINS, S. WAXLER

Well Notes
SURVEYS FROM 0 FT. TO 1541 FT. WERE ACQUIRED BY CATHEDRAL MWD.
SURVEYS FROM 1626 FT. TO 13416 FT. WERE ACQUIRED BY SCIENTIFIC DRILLING INTERNATIONAL MWD.

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Build Rate
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	Invalid
25.00	0.00	11.30	25.00	0.00	0.00	0.00	0.00	0.00
101.00	0.40	11.30	101.00	0.26	0.26	0.05	0.53	0.53
179.00	0.40	15.30	179.00	0.79	0.79	0.18	0.04	0.00
257.00	0.30	355.40	257.00	1.26	1.26	0.23	0.20	-0.13
338.00	0.30	1.30	337.99	1.68	1.68	0.22	0.04	0.00
418.00	0.50	348.80	417.99	2.23	2.23	0.16	0.27	0.25
498.00	0.10	134.50	497.99	2.52	2.52	0.14	0.73	-0.50
578.00	0.20	206.30	577.99	2.35	2.35	0.13	0.24	0.12
658.00	0.40	208.40	657.99	1.98	1.98	-0.07	0.25	0.25
738.00	0.50	214.80	737.99	1.45	1.45	-0.40	0.14	0.12
818.00	0.50	200.80	817.99	0.83	0.83	-0.72	0.15	0.00
898.00	0.70	216.10	897.98	0.11	0.11	-1.13	0.32	0.25
978.00	0.70	211.00	977.97	-0.70	-0.70	-1.67	0.08	0.00
1058.00	0.40	220.90	1057.97	-1.33	-1.33	-2.11	0.39	-0.37
1138.00	0.50	201.00	1137.97	-1.87	-1.87	-2.42	0.23	0.12
1218.00	0.60	211.00	1217.97	-2.55	-2.55	-2.76	0.17	0.13
1298.00	0.40	195.60	1297.96	-3.18	-3.18	-3.05	0.30	-0.25
1378.00	0.30	48.20	1377.96	-3.31	-3.31	-2.97	0.84	-0.12

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Build Rate
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
1458.00	0.60	45.10	1457.96	-2.88	-2.87	-2.51	0.38	0.37
1541.00	0.60	60.00	1540.95	-2.35	-2.35	-1.83	0.19	0.00
1626.00	0.57	75.88	1625.95	-2.02	-2.02	-1.03	0.19	-0.03
1687.00	0.91	84.53	1686.94	-1.90	-1.90	-0.25	0.58	0.55
1748.00	1.66	112.59	1747.93	-2.20	-2.20	1.04	1.57	1.23
1840.00	3.62	114.09	1839.83	-3.89	-3.89	4.93	2.13	2.13
1902.00	4.63	113.39	1901.67	-5.68	-5.69	9.01	1.63	1.63
1996.00	7.16	123.04	1995.16	-10.38	-10.39	17.41	2.88	2.69
2090.00	7.97	120.47	2088.34	-16.87	-16.89	27.93	0.93	0.86
2184.00	8.97	117.56	2181.32	-23.56	-23.58	40.05	1.16	1.07
2278.00	9.90	115.79	2274.05	-30.46	-30.49	53.82	1.03	0.98
2372.00	10.89	116.05	2366.50	-37.86	-37.90	69.08	1.06	1.06
2467.00	12.35	119.00	2459.55	-46.72	-46.77	86.03	1.65	1.53
2561.00	13.05	123.79	2551.26	-57.48	-57.54	103.64	1.34	0.74
2655.00	15.13	123.05	2642.42	-70.06	-70.14	122.74	2.23	2.22
2749.00	16.36	119.90	2732.90	-83.34	-83.42	144.50	1.59	1.30
2844.00	17.38	119.24	2823.81	-96.92	-97.02	168.48	1.09	1.07
2938.00	18.30	123.23	2913.29	-111.85	-111.96	193.07	1.63	0.98

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Build Rate
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
3032.00	20.38	119.75	3001.99	-128.04	-128.17	219.63	2.53	2.21
3220.00	24.72	119.52	3175.58	-163.63	-163.79	282.28	2.31	2.31
3314.00	25.59	119.75	3260.66	-183.37	-183.55	317.00	0.94	0.93
3409.00	24.38	122.68	3346.78	-204.12	-204.32	351.32	1.82	-1.28
3503.00	24.82	122.68	3432.25	-225.22	-225.44	384.25	0.47	0.47
3597.00	24.35	121.66	3517.72	-246.03	-246.27	417.35	0.67	-0.49
3691.00	25.03	121.78	3603.13	-266.65	-266.91	450.75	0.72	0.72
3786.00	24.23	125.73	3689.49	-288.60	-288.88	483.67	1.93	-0.85
3880.00	25.18	124.31	3774.89	-311.12	-311.42	515.84	1.19	1.01
3975.00	26.38	124.69	3860.43	-334.51	-334.82	549.88	1.28	1.27
4069.00	27.00	126.37	3944.42	-359.02	-359.36	584.24	1.03	0.65
4163.00	26.55	124.99	4028.34	-383.70	-384.06	618.63	0.81	-0.47
4258.00	26.70	126.59	4113.27	-408.58	-408.96	653.15	0.77	0.15
4352.00	28.09	125.09	4196.73	-433.87	-434.26	688.22	1.65	1.48
4446.00	28.56	123.26	4279.48	-458.89	-459.31	725.12	1.05	0.50
4540.00	25.90	123.81	4363.05	-482.62	-483.06	760.97	2.84	-2.82
4635.00	26.47	123.85	4448.30	-505.94	-506.40	795.80	0.60	0.60
4729.00	26.91	123.18	4532.28	-529.23	-529.71	831.00	0.57	0.47

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Build Rate
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
4823.00	26.02	124.17	4616.43	-552.44	-552.94	865.87	1.06	-0.95
4917.00	26.34	124.92	4700.79	-575.93	-576.45	900.03	0.49	0.34
5011.00	26.67	124.88	4784.91	-599.91	-600.45	934.43	0.35	0.35
5106.00	26.23	125.94	4869.96	-624.41	-624.97	968.92	0.68	-0.46
5200.00	24.46	125.93	4954.91	-648.00	-648.58	1001.50	1.89	-1.89
5295.00	23.63	125.28	5041.67	-670.53	-671.12	1032.97	0.91	-0.87
5389.00	23.61	124.47	5127.79	-692.04	-692.65	1063.87	0.35	-0.03
5484.00	22.67	122.06	5215.15	-712.50	-713.13	1095.06	1.40	-0.99
5578.00	23.80	122.92	5301.53	-732.41	-733.06	1126.34	1.26	1.20
5672.00	23.17	122.75	5387.74	-752.70	-753.37	1157.81	0.67	-0.66
5767.00	19.99	119.60	5476.07	-770.82	-771.50	1187.66	3.56	-3.35
5861.00	17.90	118.63	5564.98	-785.67	-786.36	1214.32	2.25	-2.22
5956.00	15.40	120.18	5655.99	-798.99	-799.70	1238.04	2.68	-2.64
6051.00	13.93	121.95	5747.89	-811.37	-812.10	1258.65	1.61	-1.54
6146.00	11.87	125.23	5840.49	-823.05	-823.79	1276.33	2.30	-2.17
6240.00	11.53	123.99	5932.54	-833.87	-834.61	1292.02	0.45	-0.36
6334.00	10.08	116.66	6024.87	-842.80	-843.56	1307.16	2.12	-1.54
6429.00	7.73	123.59	6118.72	-850.06	-850.82	1319.91	2.72	-2.48

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Build Rate
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
6524.00	5.71	128.78	6213.07	-856.56	-857.32	1328.92	2.22	-2.12
6618.00	3.30	132.10	6306.77	-861.29	-862.06	1334.57	2.58	-2.57
6713.00	2.69	134.02	6401.64	-864.67	-865.44	1338.20	0.65	-0.64
6808.00	0.48	35.54	6496.60	-865.89	-866.67	1340.04	2.95	-2.32
6902.00	6.30	1.96	6590.40	-860.41	-861.18	1340.44	6.28	6.19
6949.00	11.57	1.10	6636.81	-853.12	-853.89	1340.62	11.21	11.20
6997.00	16.40	1.16	6683.38	-841.52	-842.30	1340.85	10.06	10.06
7044.00	20.59	357.38	6727.94	-826.63	-827.40	1340.61	9.28	8.93
7092.00	23.51	355.86	6772.43	-808.65	-809.42	1339.53	6.20	6.08
7139.00	26.04	357.87	6815.10	-788.98	-789.75	1338.47	5.67	5.38
7186.00	29.52	359.90	6856.68	-767.09	-767.86	1338.06	7.68	7.41
7233.00	33.71	1.36	6896.69	-742.46	-743.23	1338.35	9.06	8.91
7281.00	37.44	1.18	6935.73	-714.54	-715.32	1338.97	7.76	7.76
7328.00	40.89	359.67	6972.16	-684.87	-685.64	1339.18	7.62	7.34
7375.00	43.70	359.38	7006.92	-653.24	-654.02	1338.91	6.00	5.99
7422.00	46.87	357.83	7039.99	-619.86	-620.63	1338.09	7.13	6.73
7470.00	51.29	358.06	7071.42	-583.63	-584.40	1336.79	9.22	9.21
7517.00	56.04	357.76	7099.27	-545.80	-546.57	1335.41	10.11	10.10

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Build Rate
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
7564.00	60.25	357.89	7124.07	-505.92	-506.69	1333.89	8.96	8.96
7611.00	63.79	357.46	7146.11	-464.46	-465.22	1332.21	7.59	7.54
7659.00	66.79	356.31	7166.18	-420.92	-421.69	1329.83	6.61	6.24
7753.00	75.64	357.88	7196.42	-332.14	-332.90	1325.36	9.54	9.41
7809.00	81.63	359.88	7207.45	-277.28	-278.04	1324.30	11.26	10.71
7905.00	87.15	0.89	7216.83	-181.78	-182.54	1324.95	5.84	5.75
7997.00	87.85	1.50	7220.85	-89.88	-90.65	1326.86	1.01	0.76
8089.00	89.06	0.16	7223.32	2.07	1.30	1328.19	1.96	1.32
8182.00	89.56	1.65	7224.44	95.05	94.28	1329.65	1.69	0.54
8276.00	89.83	359.82	7224.93	189.04	188.27	1330.86	1.97	0.29
8371.00	89.63	359.31	7225.38	284.03	283.27	1330.13	0.58	-0.21
8465.00	88.96	357.52	7226.54	377.98	377.22	1327.53	2.03	-0.71
8559.00	90.34	0.48	7227.11	471.95	471.19	1325.89	3.47	1.46
8654.00	91.07	0.27	7225.94	566.94	566.18	1326.52	0.81	0.78
8748.00	90.47	359.65	7224.68	660.93	660.17	1326.44	0.92	-0.64
8843.00	91.71	0.19	7222.87	755.92	755.15	1326.31	1.43	1.31
8938.00	91.88	359.35	7219.89	850.87	850.10	1325.92	0.89	0.18
9033.00	90.87	359.58	7217.60	945.83	945.07	1325.04	1.09	-1.06

MD	Inc	Azim	TVD	VS	+N/-S	+E/-W	DLS	Build Rate
ft	deg	deg	ft	ft	ft	ft	°/100ft	°/100ft
9127.00	89.26	359.14	7217.49	1039.82	1039.06	1323.99	1.78	-1.72
9222.00	90.00	359.18	7218.10	1134.81	1134.05	1322.60	0.78	0.78
9316.00	88.76	358.95	7219.12	1228.79	1228.03	1321.07	1.34	-1.32
9411.00	87.15	358.24	7222.51	1323.69	1322.94	1318.74	1.85	-1.70
9505.00	89.02	358.97	7225.65	1417.61	1416.85	1316.46	2.14	2.00
9600.00	90.30	359.16	7226.21	1512.59	1511.83	1314.92	1.36	1.34
9694.00	89.80	359.53	7226.12	1606.58	1605.83	1313.84	0.66	-0.54
9883.00	90.17	359.50	7226.18	1795.58	1794.82	1312.23	0.20	0.20
9978.00	90.54	0.27	7225.60	1890.57	1889.82	1312.05	0.90	0.39
10072.00	90.13	0.25	7225.05	1984.57	1983.81	1312.48	0.43	-0.43
10167.00	88.29	359.24	7226.36	2079.55	2078.80	1312.06	2.22	-1.94
10262.00	89.46	359.60	7228.22	2174.53	2173.77	1311.10	1.30	1.24
10356.00	88.66	0.52	7229.76	2268.51	2267.76	1311.20	1.30	-0.86
10451.00	89.70	1.63	7231.12	2363.49	2362.73	1312.98	1.60	1.09
10545.00	87.78	0.84	7233.19	2457.44	2456.68	1315.00	2.20	-2.04
10639.00	87.79	0.33	7236.82	2551.36	2550.61	1315.96	0.54	0.01
10732.00	89.13	1.25	7239.33	2644.32	2643.56	1317.24	1.74	1.44
10826.00	90.94	1.44	7239.27	2738.29	2737.53	1319.45	1.94	1.93

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft	Build Rate °/100ft
10920.00	90.44	1.47	7238.14	2832.25	2831.49	1321.83	0.54	-0.54
11015.00	89.63	359.41	7238.09	2927.25	2926.48	1322.56	2.33	-0.85
11109.00	89.46	359.39	7238.83	3021.24	3020.48	1321.58	0.18	-0.18
11203.00	90.20	1.22	7239.11	3115.23	3114.47	1322.08	2.10	0.79
11297.00	91.61	1.98	7237.62	3209.18	3208.42	1324.70	1.70	1.50
11392.00	91.18	1.52	7235.31	3304.11	3303.35	1327.60	0.66	-0.46
11486.00	90.13	359.59	7234.24	3398.09	3397.33	1328.51	2.34	-1.11
11581.00	89.60	358.31	7234.46	3493.07	3492.31	1326.77	1.46	-0.56
11675.00	90.23	359.20	7234.60	3587.05	3586.29	1324.73	1.17	0.68
11769.00	90.74	358.73	7233.80	3681.03	3680.27	1323.03	0.73	0.54
11863.00	91.04	358.02	7232.34	3774.98	3774.22	1320.37	0.83	0.32
11958.00	89.63	358.29	7231.79	3869.92	3869.16	1317.31	1.51	-1.48
12052.00	89.09	359.17	7232.83	3963.89	3963.13	1315.23	1.10	-0.57
12147.00	88.29	359.75	7235.01	4058.86	4058.10	1314.33	1.05	-0.85
12241.00	89.30	0.49	7236.99	4152.84	4152.08	1314.54	1.33	1.07
12335.00	89.30	1.22	7238.14	4246.82	4246.06	1315.94	0.78	0.00
12430.00	89.53	1.39	7239.12	4341.79	4341.03	1318.11	0.30	0.25
12524.00	89.70	0.51	7239.75	4435.78	4435.02	1319.67	0.96	0.18

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft	Build Rate °/100ft
12618.00	89.96	1.03	7240.03	4529.77	4529.01	1320.93	0.62	0.27
12712.00	89.97	359.98	7240.10	4623.76	4623.00	1321.75	1.12	0.01
12807.00	90.37	0.50	7239.82	4718.76	4718.00	1322.15	0.69	0.42
12901.00	91.81	0.13	7238.03	4812.74	4811.98	1322.67	1.58	1.53
12995.00	90.50	1.22	7236.13	4906.71	4905.95	1323.78	1.81	-1.39
13090.00	91.00	0.58	7234.88	5001.69	5000.93	1325.27	0.86	0.53
13184.00	92.01	0.25	7232.41	5095.66	5094.89	1325.95	1.13	1.07
13278.00	90.44	0.76	7230.40	5189.63	5188.87	1326.78	1.76	-1.68
13373.00	90.74	0.41	7229.42	5284.62	5283.86	1327.74	0.49	0.32
13416.00	89.73	359.80	7229.25	5327.62	5326.85	1327.82	2.73	-2.34

5" = 100' FEET MD