

5" = 100' FEET MD

COMPANY : ANADARKO E&P ONSHORE LLC
WELL : CHEESE 38C-28HZ
FIELD : WATTENBERG
COUNTY : WELD
STATE : COLORADO
COUNTRY : U.S.A.
UWI : 05-125-40957

COMPANY : ANADARKO E&P ONSHORE LLC
WELL : CHEESE 38C-28HZ
FIELD : WATTENBERG
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WELL LOCATION

LAT:40°12'9.040"N LONG:104°39'43.261"W
N:14600656.87 ft E:1734789.01 ft

SEC:28

TWP:3N

RANGE:65W

OTHER SERVICES

DIRECTIONAL
ROP

DEPTH REF. : RKB

REF. HEIGHT : 25.000 ft

GROUND LEVEL : 4815.000 ft

RKB to Ground Level
G.L. to MEAN SEA LEVEL

BOREHOLE RECORD

DEVIATION RECORD

HOLE SIZE in	FROM ft	TO ft	INCLINATION deg	FROM ft	TO ft
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8.5	1212	12863	0-16	0	6578
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			16-90	6578	7807
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			90-93	7807	12863
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CASING RECORD

CASING SIZE in	FROM ft	TO ft
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9.625	0	1202
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DRILLING CO. : H&P

RIG : 307

LMD UNIT NO. : C-64

SPUD DATE : 06/08/2015

LMD START DATE : 06/08/2015

LMD END DATE : 06/12/2015

DISTRICT : CASPER

DEPTH : 1164 ft

DEPTH : 12863 ft

DEPTH : 12863 ft

TOTAL DEPTH : 12863 ft

Run Data

RUN NUMBER

1

2

3

START DATE

06/08/2015

06/09/2015

06/10/2015

START TIME

1300

0500

1300

END DATE

06/09/2015

06/10/2015

06/12/2015

END TIME

0410

0900

0540

DEPTH IN (ft)

1212

4652

8126

DEPTH OUT (ft)

4652

8126

12863

LOG TOP (ft)

1164

4596

8087

LOG BOTTOM (ft)

4596

8087

12863

HOLE SIZE (in)

8.5

8.5

8.5

MUD DATA @ (ft)

3132

6973

12118

MUD TYPE

OIL-BASED

OIL-BASED

OIL-BASED

DENSITY (lb / gal)

9.1

9.55

9.75

VISCOSITY (s / qt)

70

63

59

pH

-

-

-

FLUID LOSS (cm3 / 30)

4.2

5

4

SALINITY (ppm)

-

-

-

Rm (ohmm @ deg F)

-

-

-

Rmf (ohmm @ deg F)

-

-

-

MAX TEMP (deg F)

139

188

239

Rm @ MAX TEMP (ohmm)

-

-

-

LWD ENGINEER #1

B. GREER

B. GREER

B. GREER

LWD ENGINEER #2

S. WAXLER

S. WAXLER

S. WAXLER

LWD ENGINEER #3

-

-

-

LOG WITNESS #1

S. SADLE

S. SADLE

S. SADLE

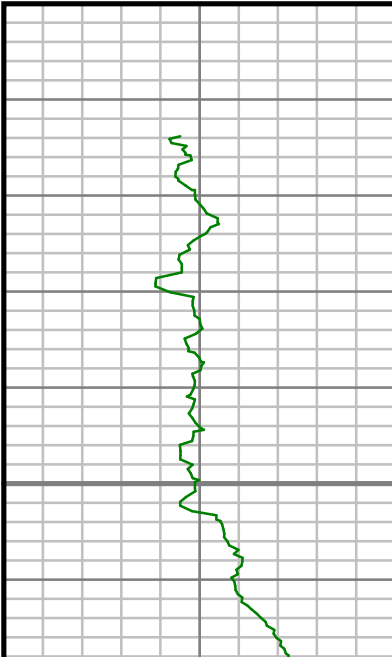
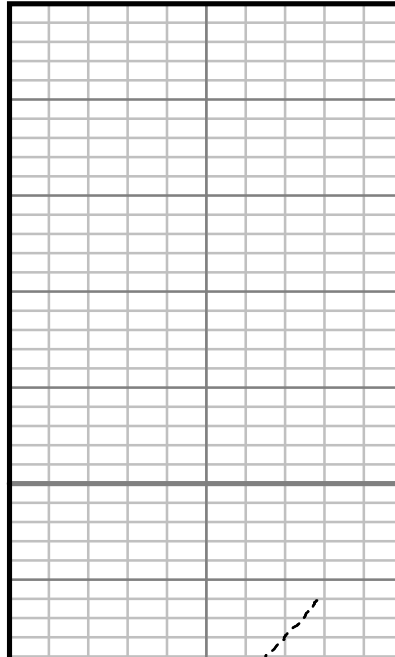
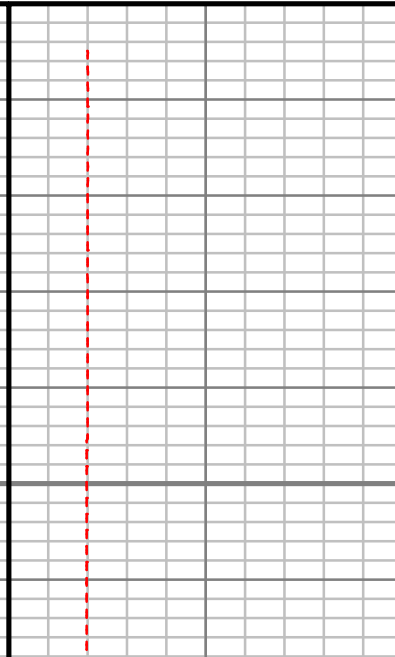
LOG WITNESS #2

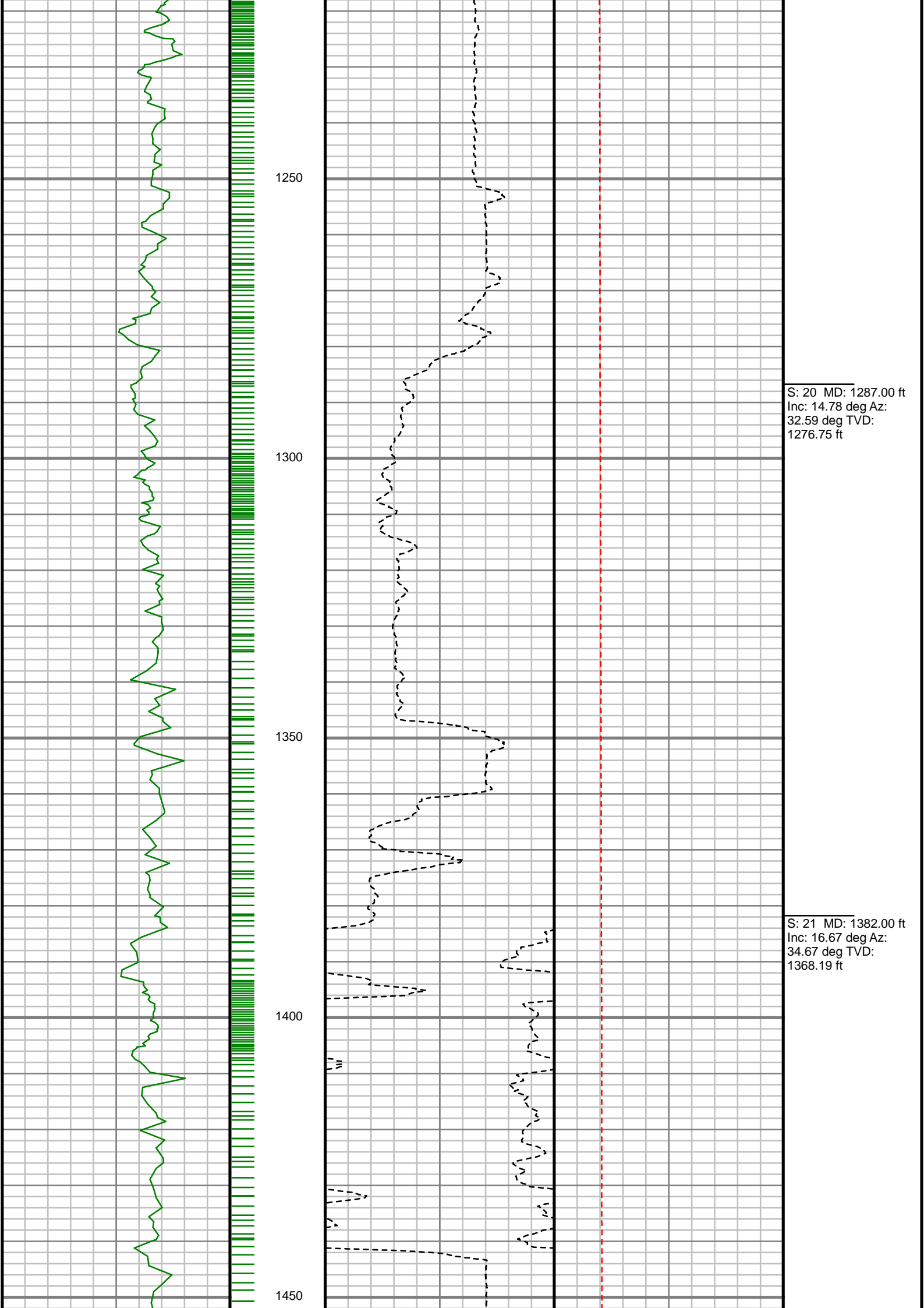
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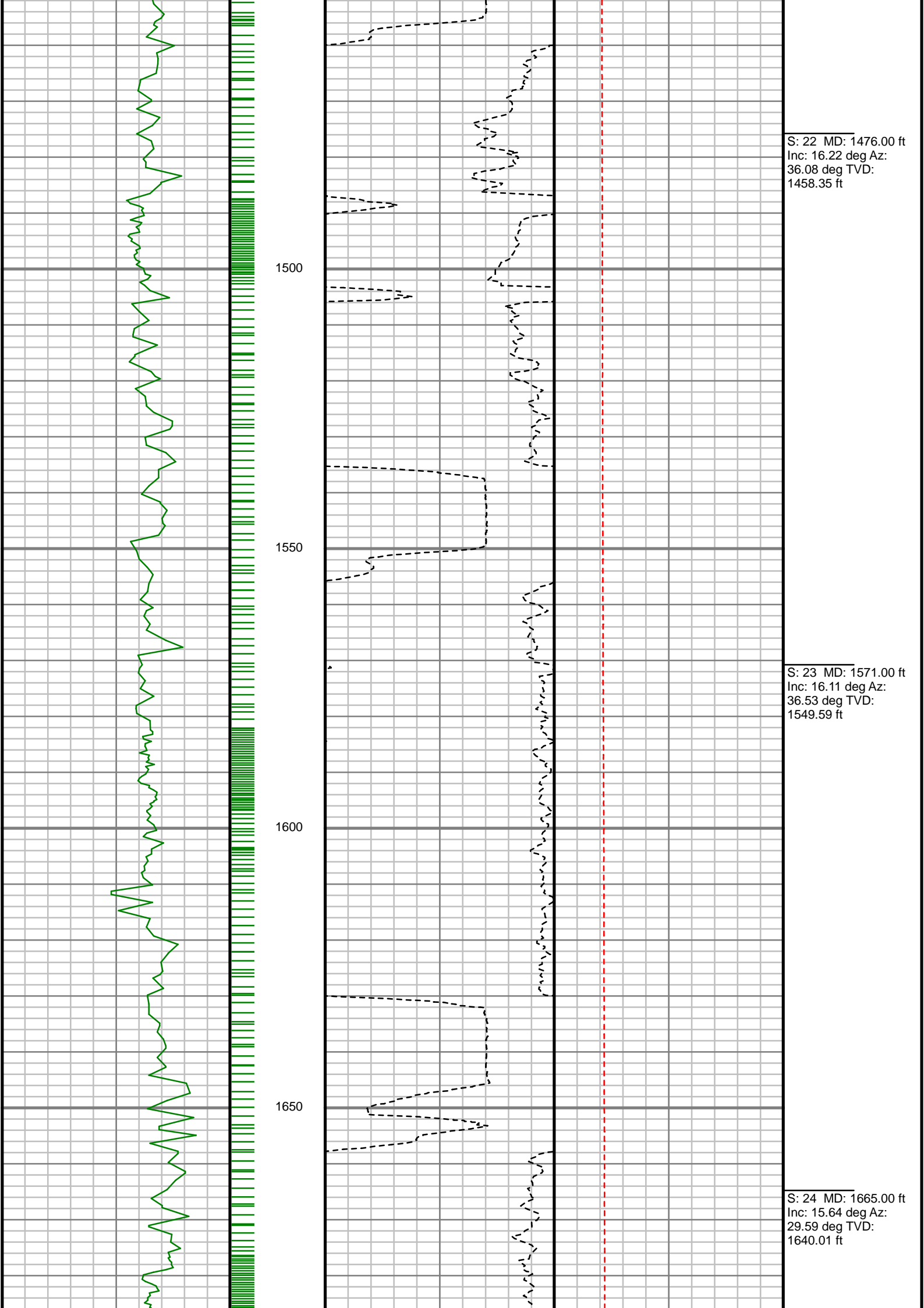
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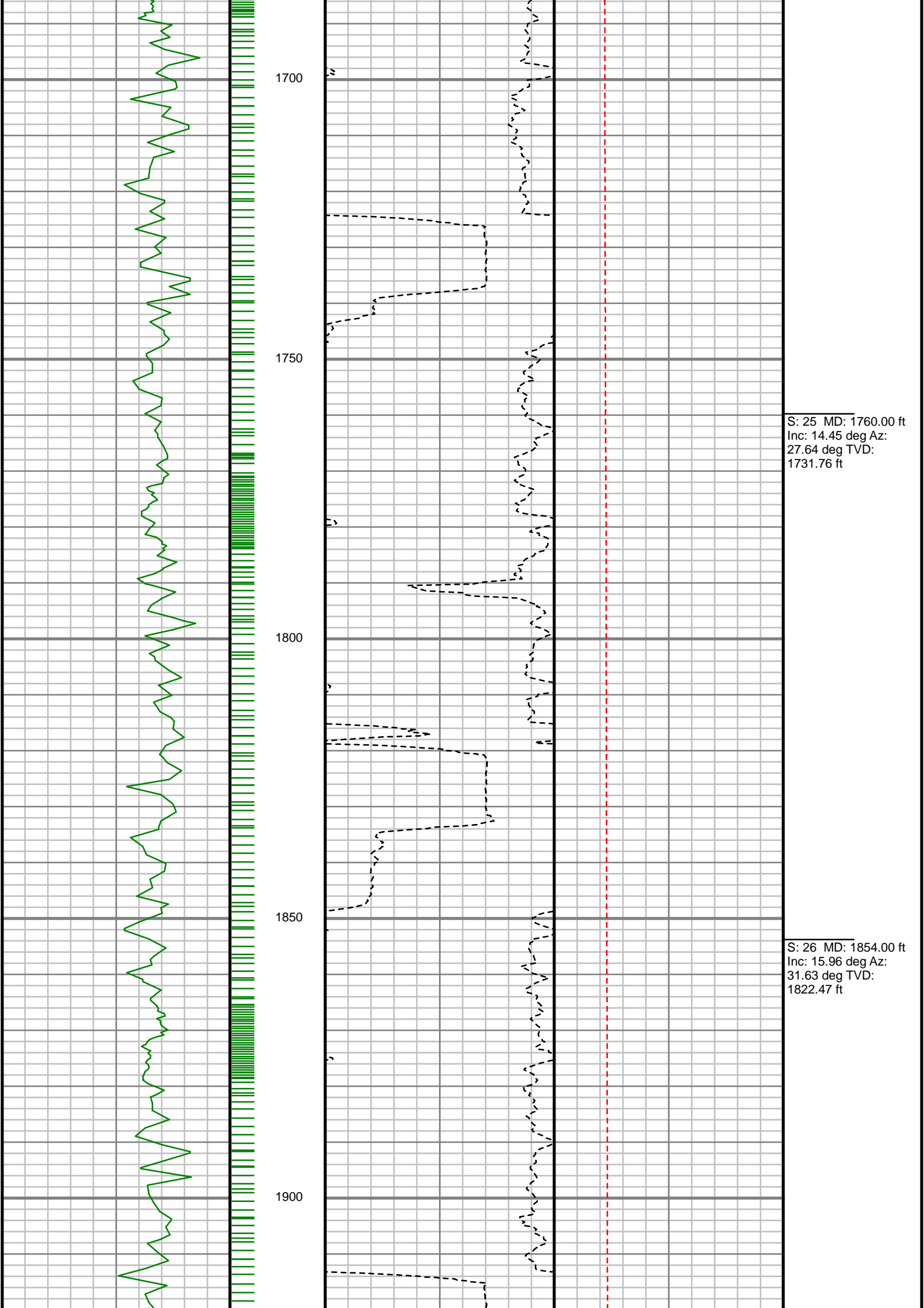
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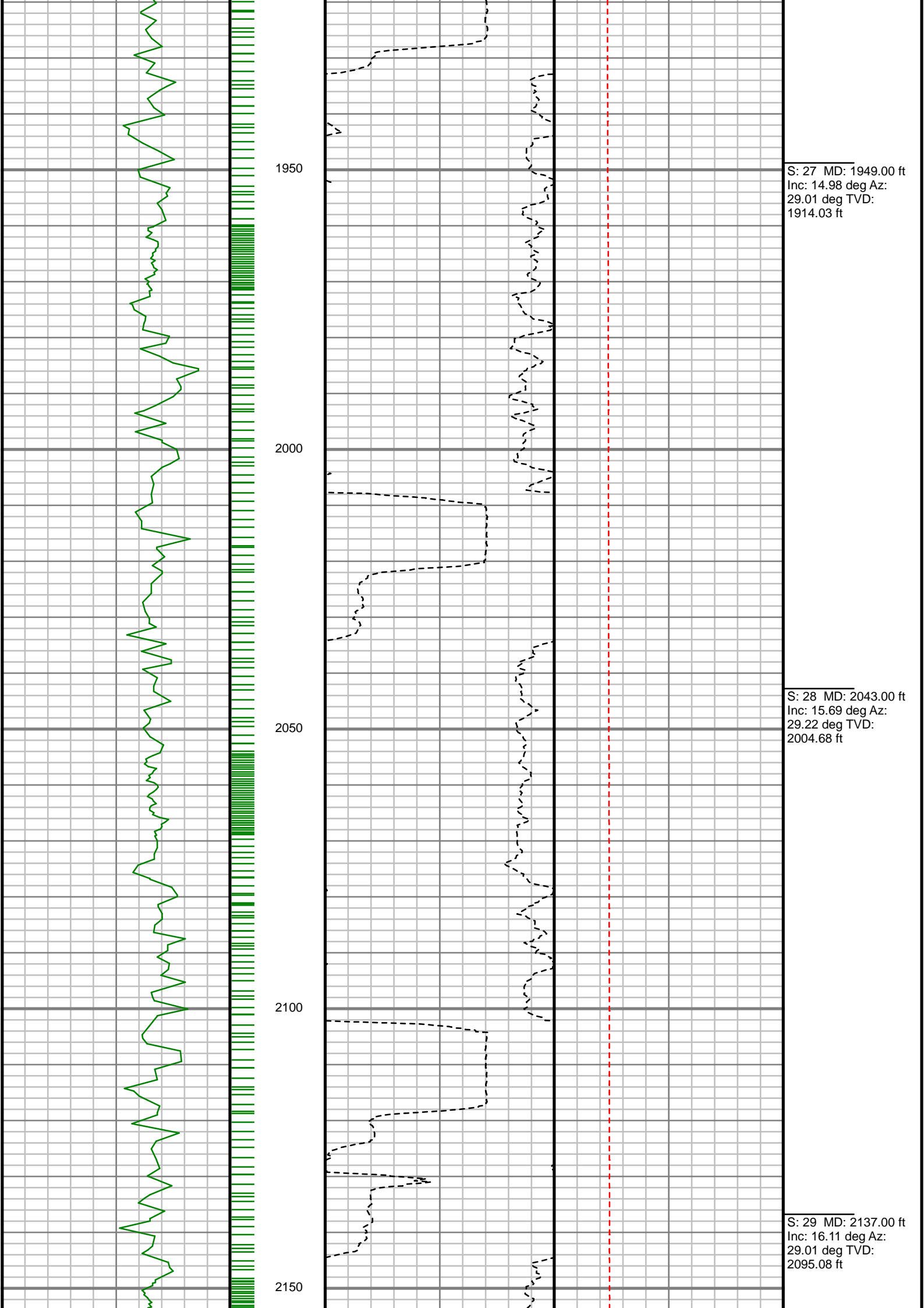
Remarks
ANADARKO E&P ONSHORE LLC PRODUCTION AFE# 2102241
SCIENTIFIC DRILLING INTERNATIONAL JOB# 287862
ALL REFERENCES IN THE DEPTH TRACK ARE AT BIT DEPTH.
ALL DATA IS MEMORY DATA UNLESS STATED OTHERWISE.
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO GAMMA RAY CURVE
FLAT AVERAGE FILTER OF 1.00 FT APPLIED TO RATE OF PENETRATION CURVE
RUN #1: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-153 / CONT = 412 / MWD EYE = 755 / GAMMA RAY = 1169
BIT TO SENSOR OFFSETS: SURVEY = 57.13 FT. / GAMMA RAY = 48.43 FT.
RUN #2: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-153 / CONT = 412 / MWD EYE = 755 / GAMMA RAY = 1169
BIT TO SENSOR OFFSETS: SURVEY = 57.10 FT. / GAMMA RAY = 48.40 FT.
RUN #3: MWD / GAMMA RAY LOGGING RUN
SENSORS S/N: PULSER = 128-100 / CONT = 862 / MWD EYE = 882 / GAMMA RAY = 1188
BIT TO SENSOR OFFSETS: SURVEY = 57.07 FT. / GAMMA RAY = 48.37 FT.
MNEMONICS LIST:
GR = GAMMA RAY
ROP = RATE OF PENETRATION
T-TEMP = TOOL TEMPERATURE

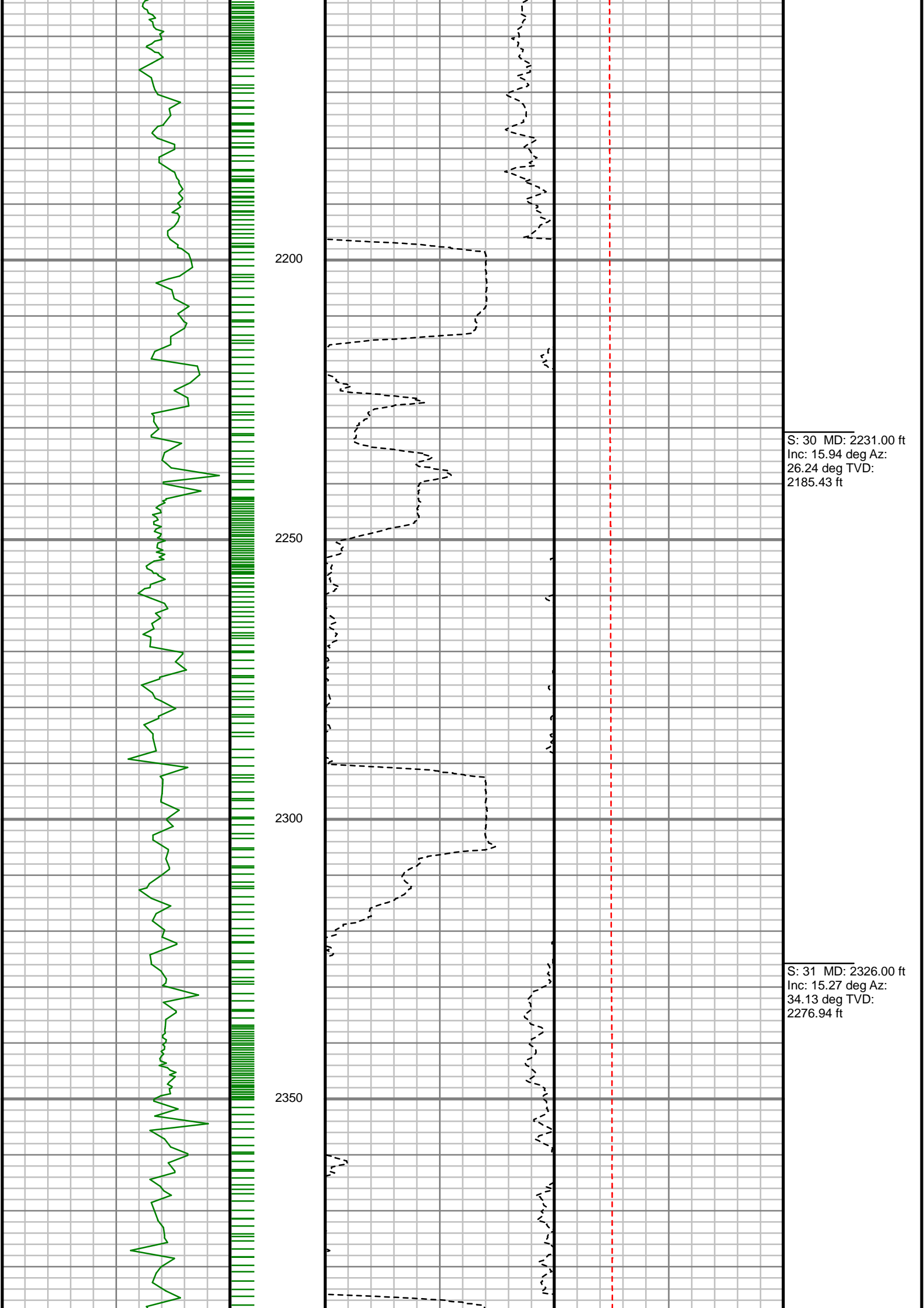
ANADARKO E&P ONSHORE LLC CHEESE 38C-28HZ WATTENBERG FIELD WELD COUNTY, COLORADO 05-125-40957							
Gamma Ray (GR)		MEASURED DEPTH 1:240 (ft)	Rate of Penetration (ROP)		Tool Temperature (T-TEMP)		Comments
0	Unit = aapi 150		1000	Unit = ft/hr 0	50	Unit = °F 300	
							S: 19 MD: 1167.00 ft Inc: 12.70 deg Az: 30.60 deg TVD: 1160.19 ft

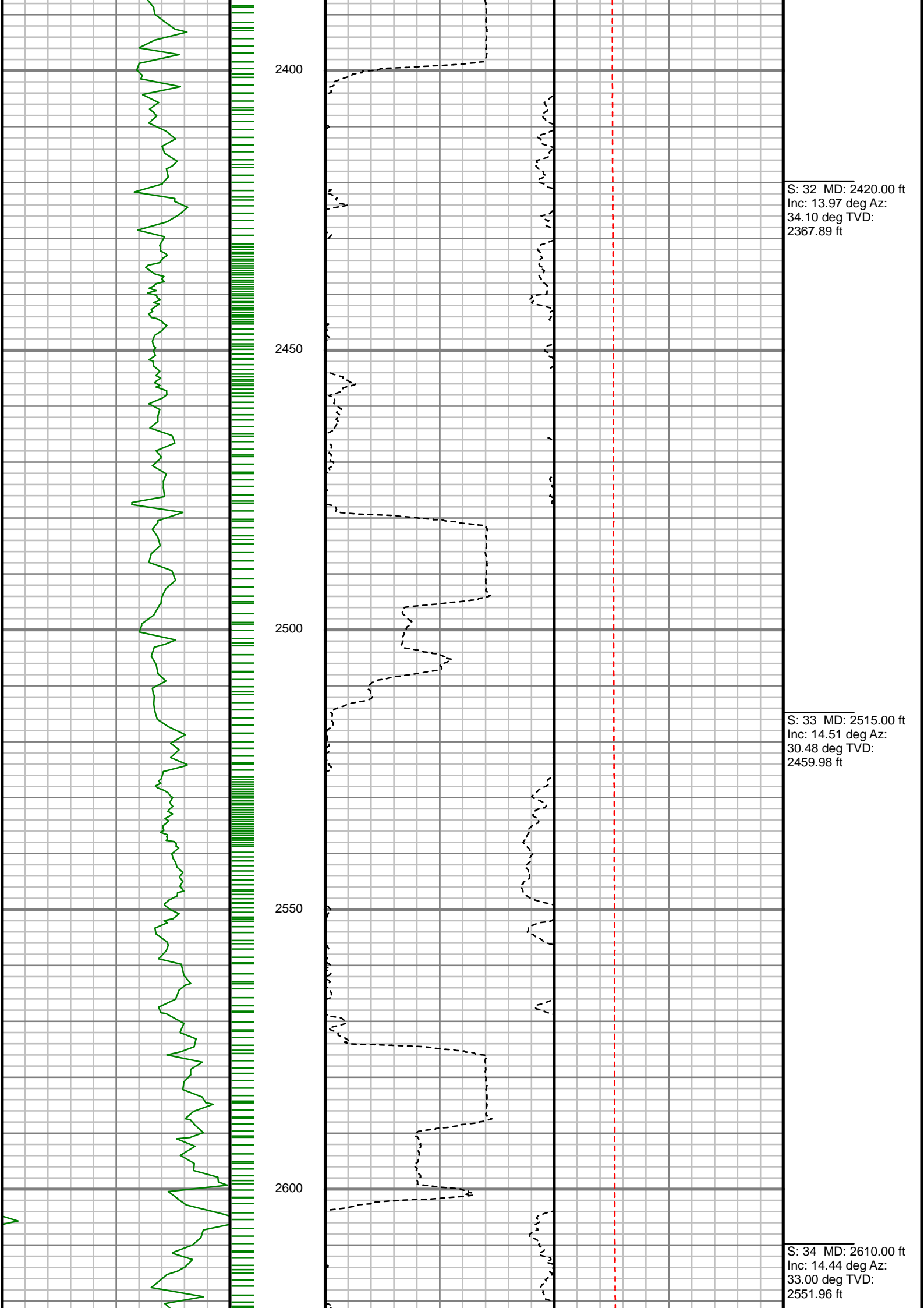


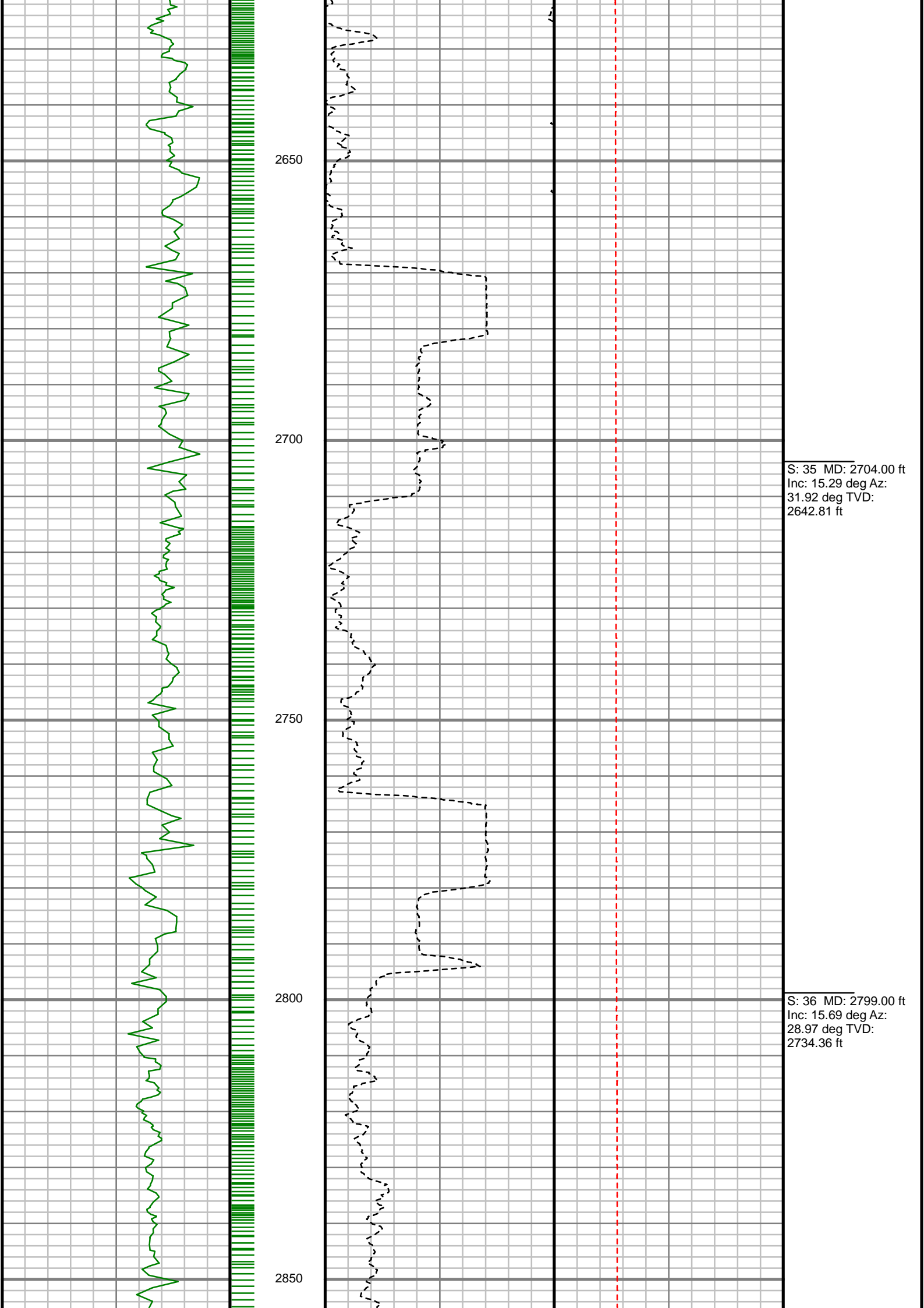


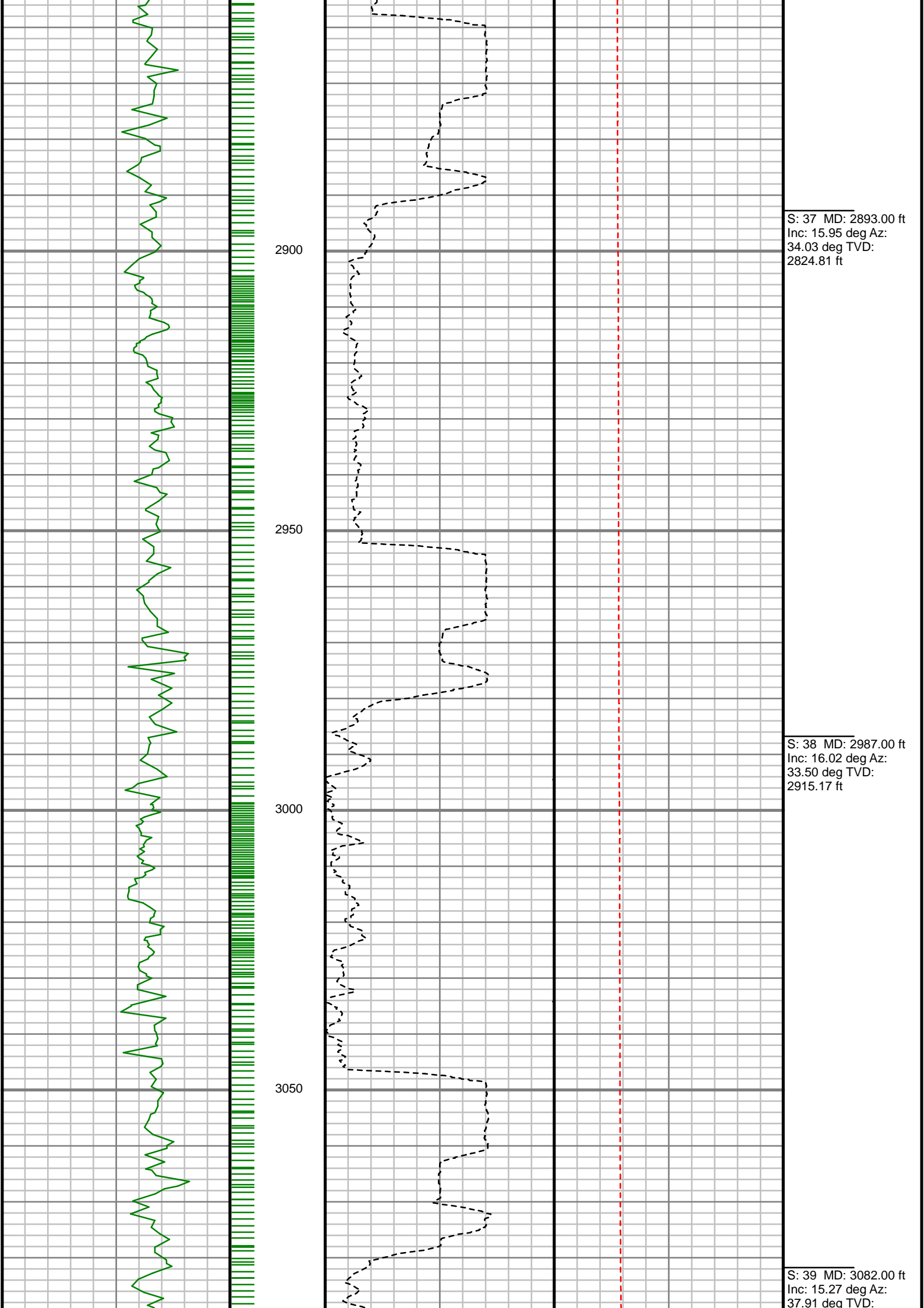


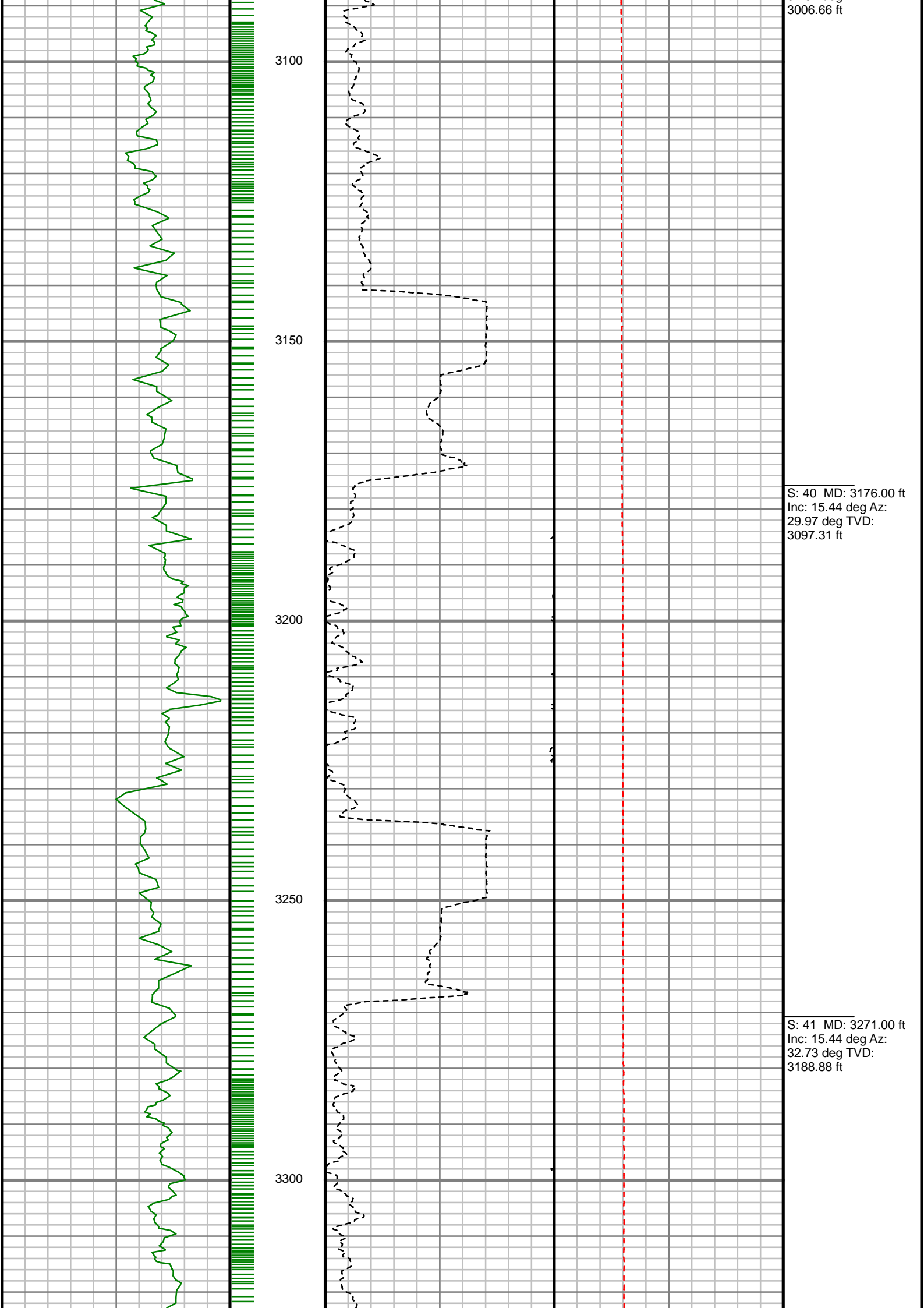


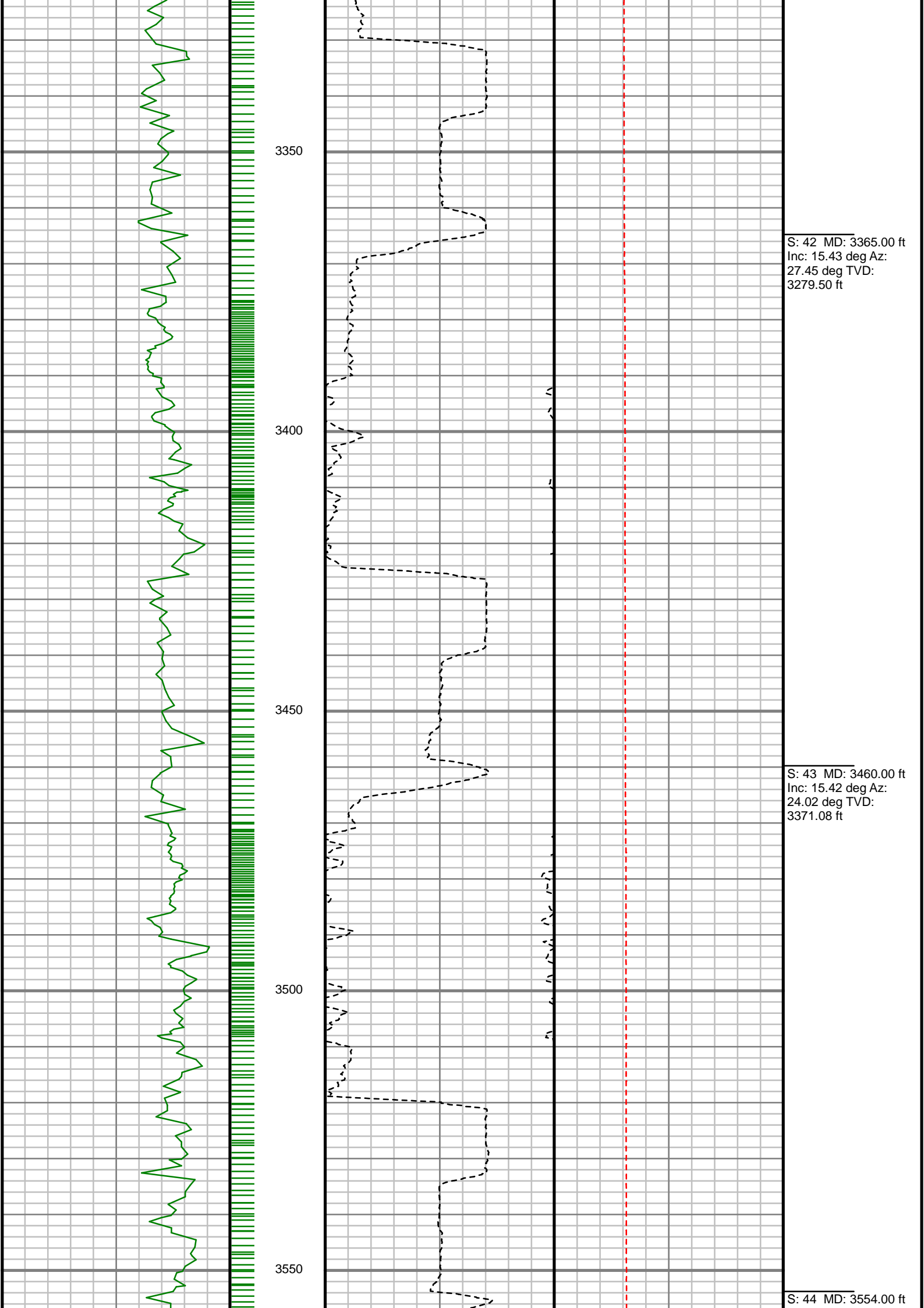


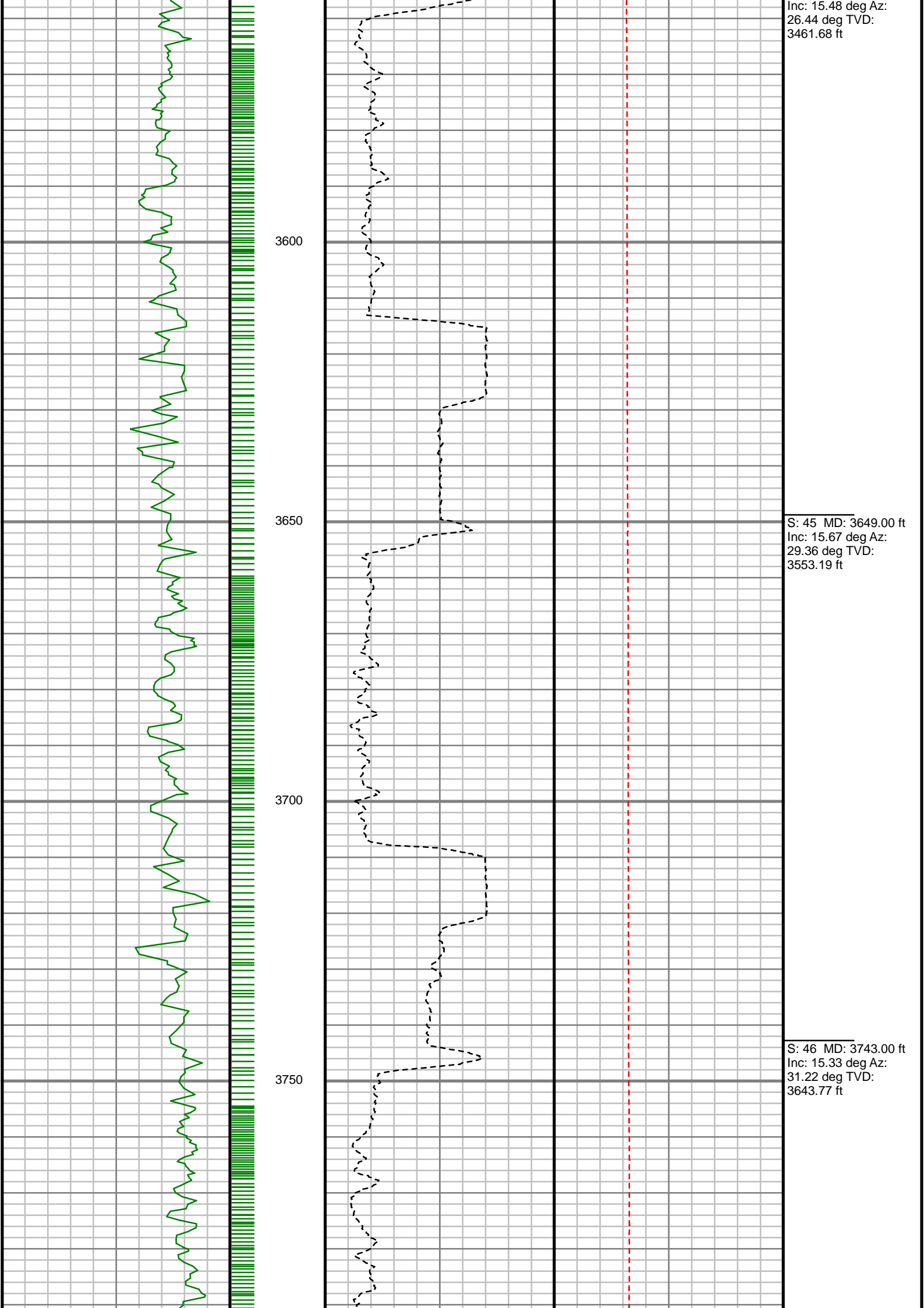








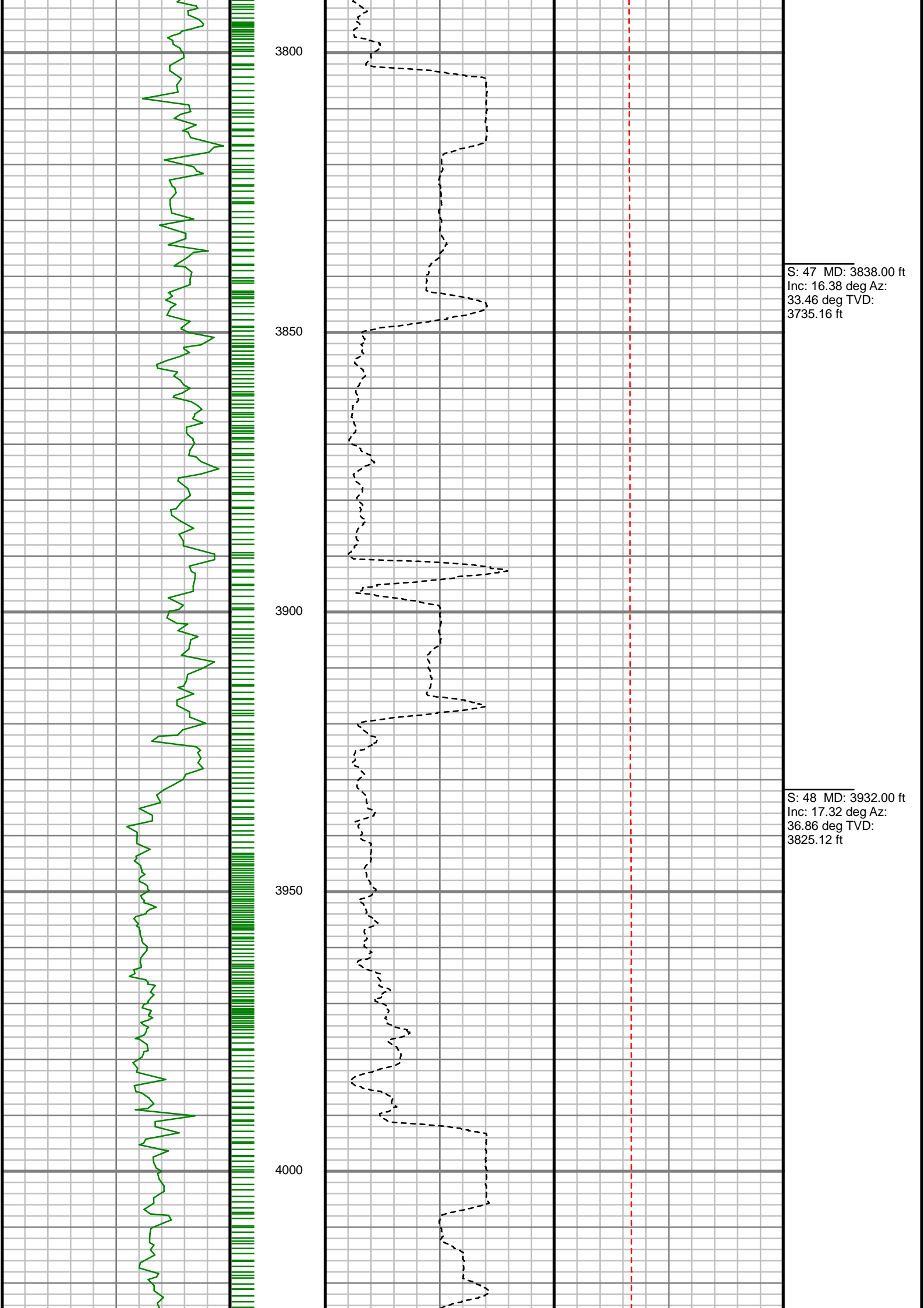




Inc: 15.48 deg Az:
26.44 deg TVD:
3461.68 ft

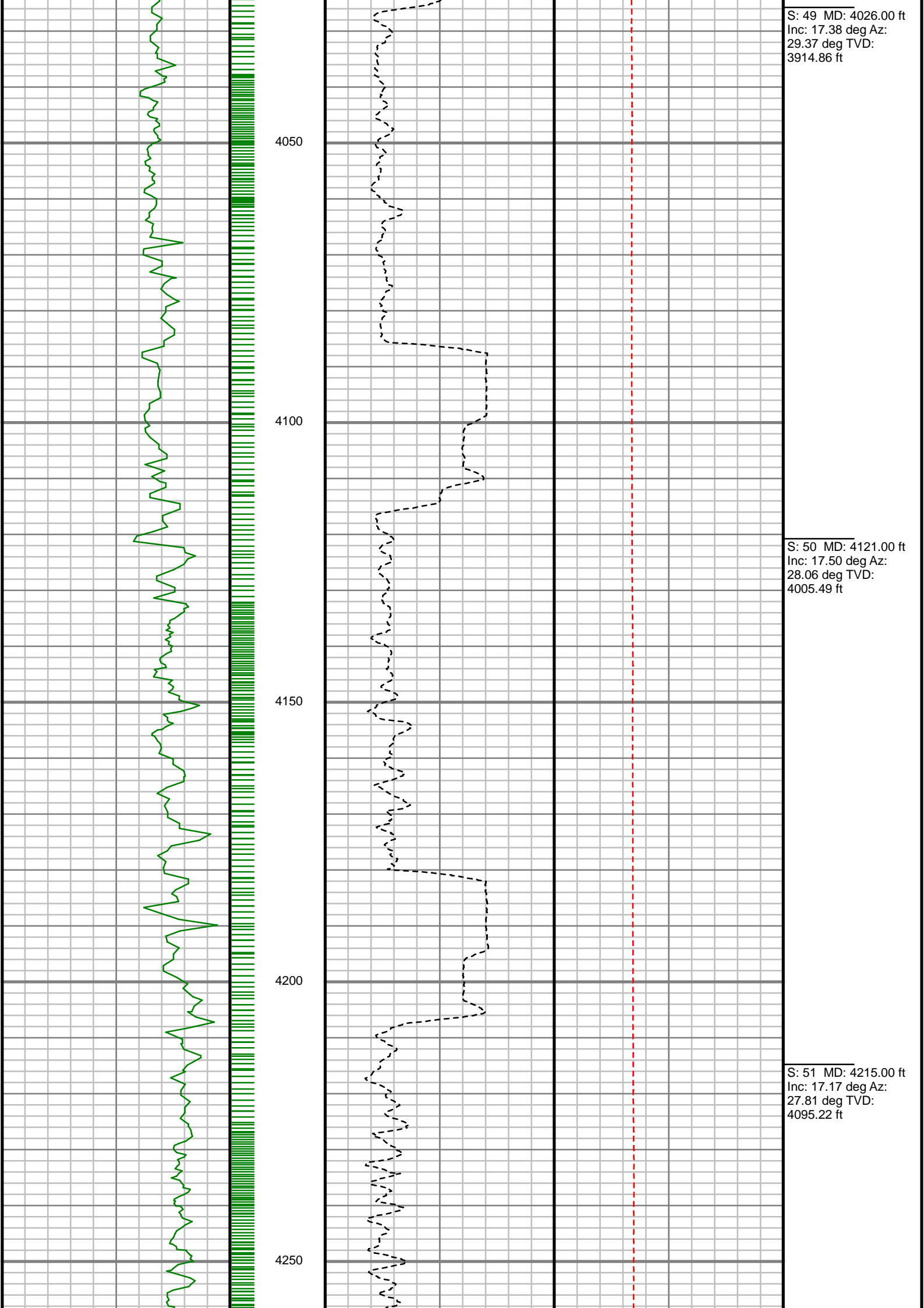
S: 45 MD: 3649.00 ft
Inc: 15.67 deg Az:
29.36 deg TVD:
3553.19 ft

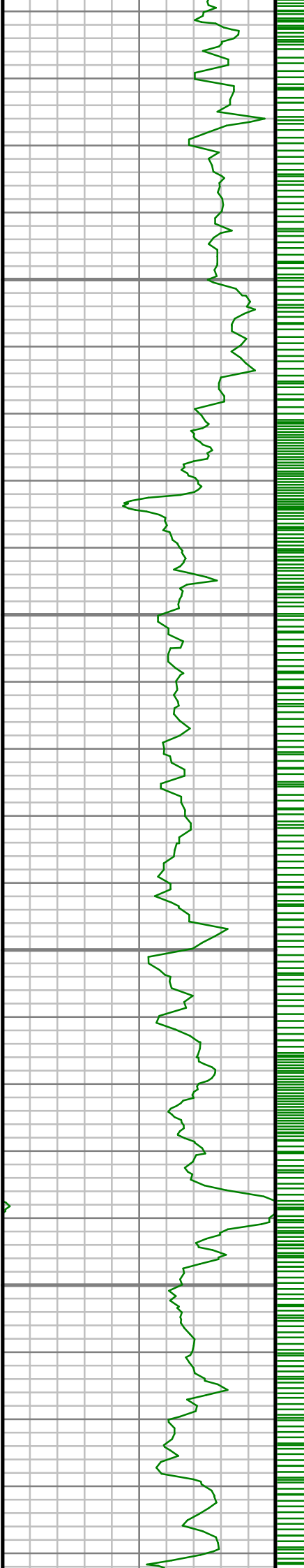
S: 46 MD: 3743.00 ft
Inc: 15.33 deg Az:
31.22 deg TVD:
3643.77 ft



S: 47 MD: 3838.00 ft
Inc: 16.38 deg Az:
33.46 deg TVD:
3735.16 ft

S: 48 MD: 3932.00 ft
Inc: 17.32 deg Az:
36.86 deg TVD:
3825.12 ft



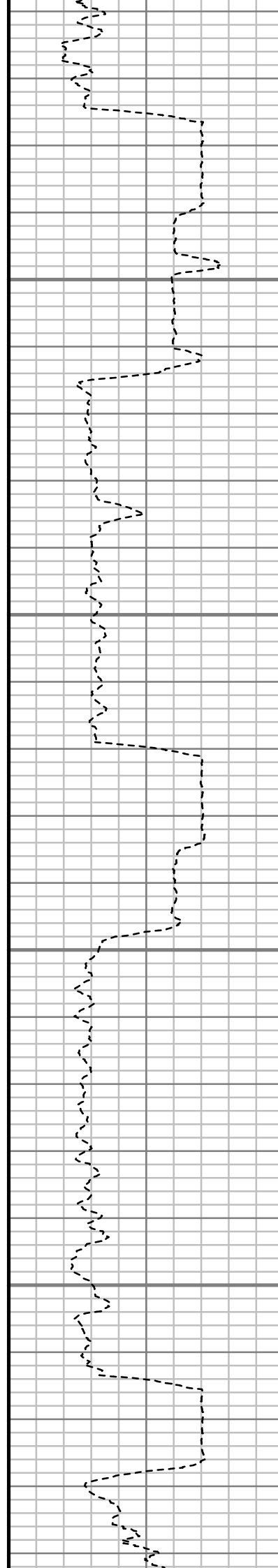


4300

4350

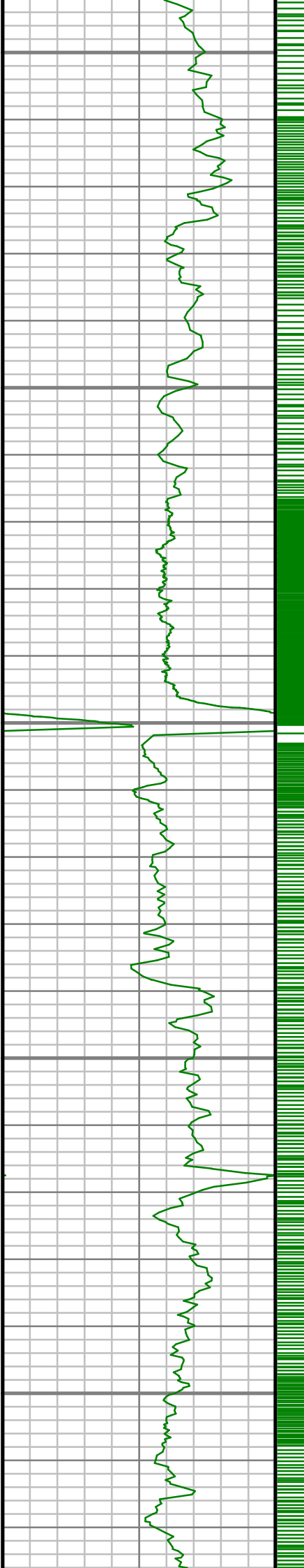
4400

4450



S: 52 MD: 4310.00 ft
Inc: 15.45 deg Az:
30.10 deg TVD:
4186.39 ft

S: 53 MD: 4404.00 ft
Inc: 16.65 deg Az:
30.41 deg TVD:
4276.73 ft



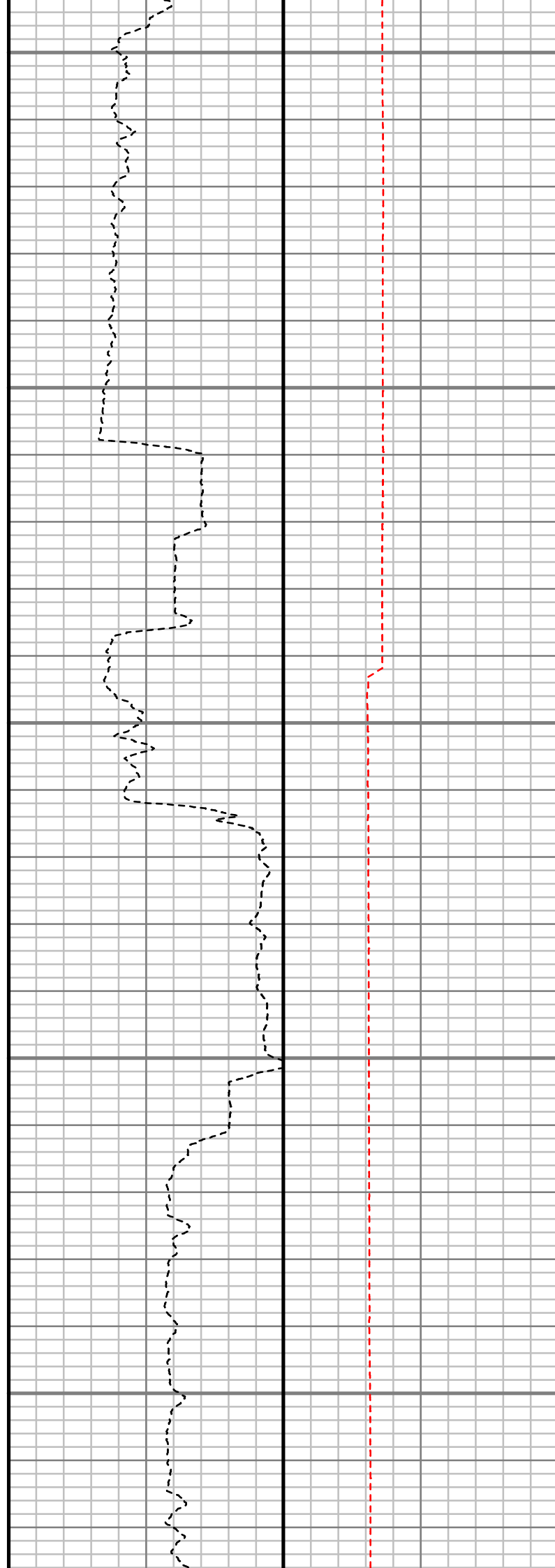
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4550

4600

4650

4700

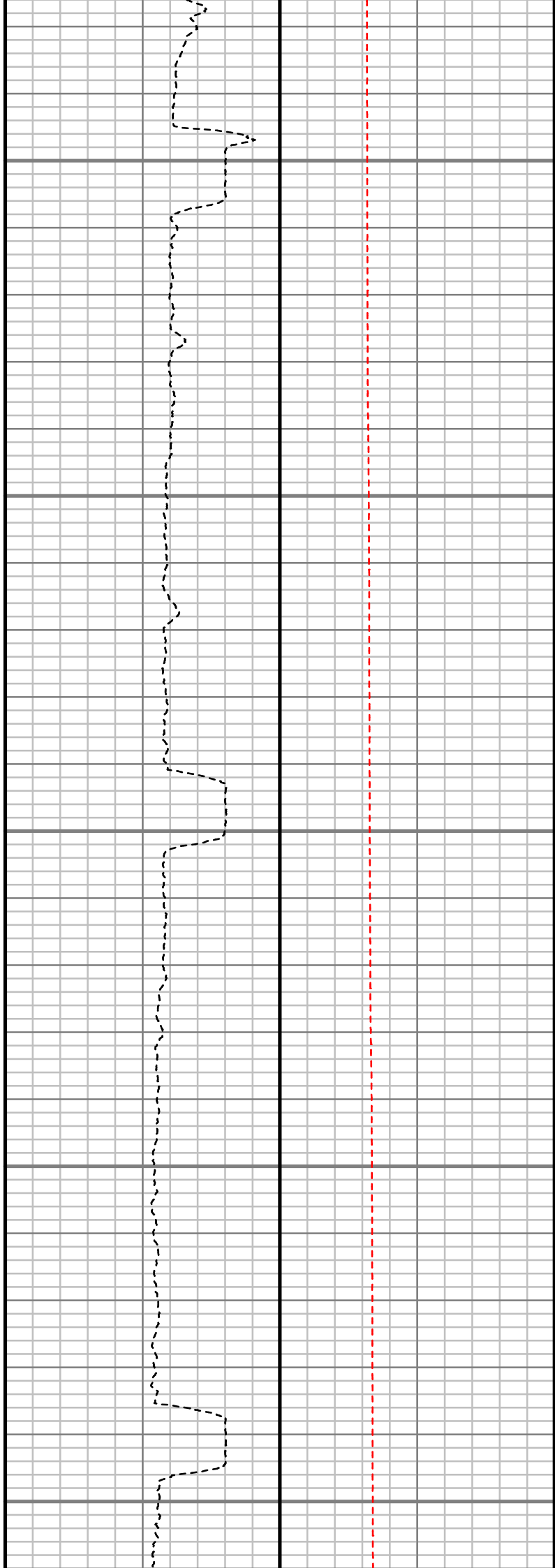
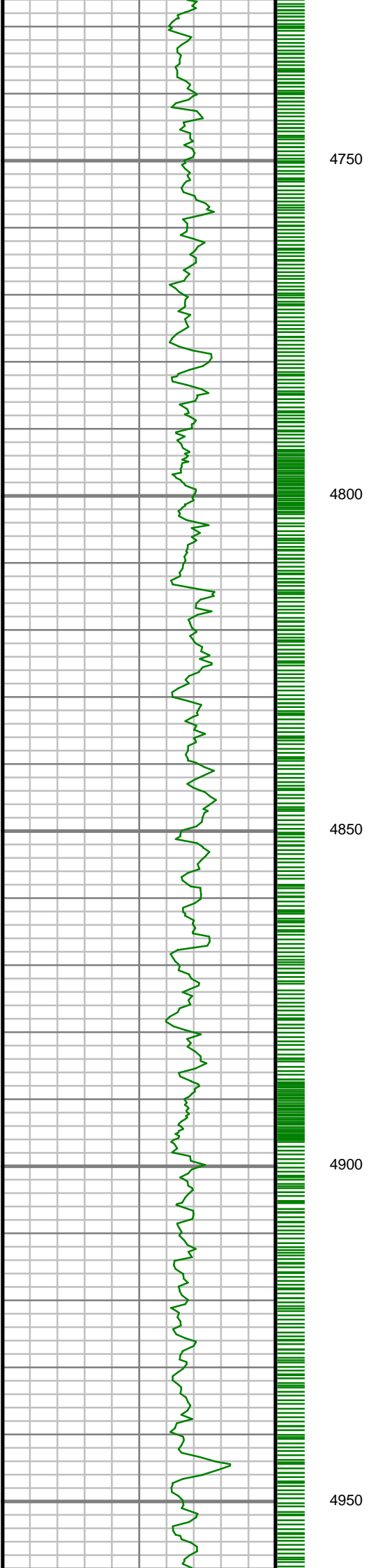


S: 54 MD: 4499.00 ft
Inc: 14.42 deg Az:
29.69 deg TVD:
4368.25 ft

S: 55 MD: 4593.00 ft
Inc: 14.95 deg Az:
30.53 deg TVD:
4459.18 ft

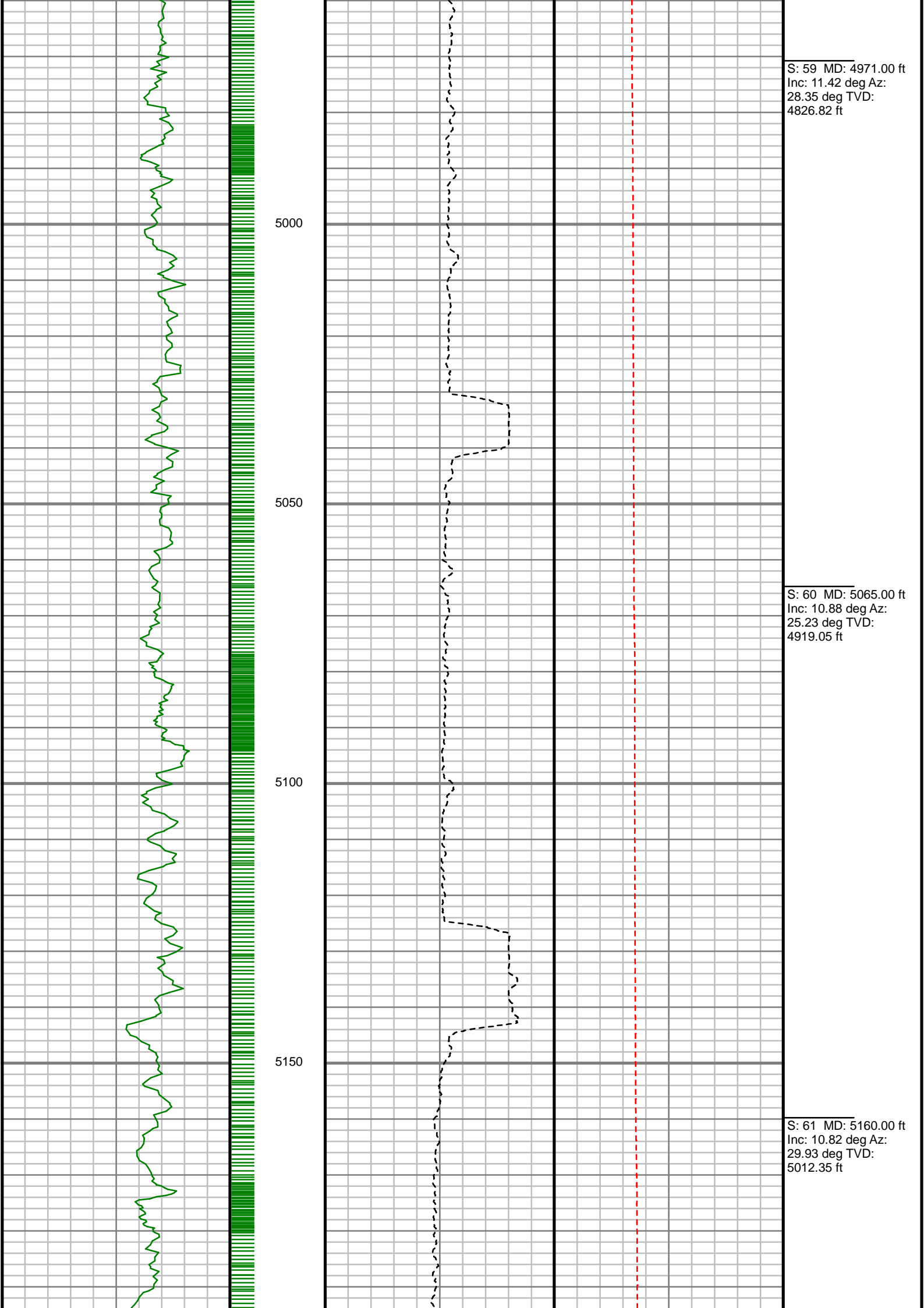
S: 56 MD: 4687.00 ft
Inc: 14.33 deg Az:
31.59 deg TVD:
4550.13 ft

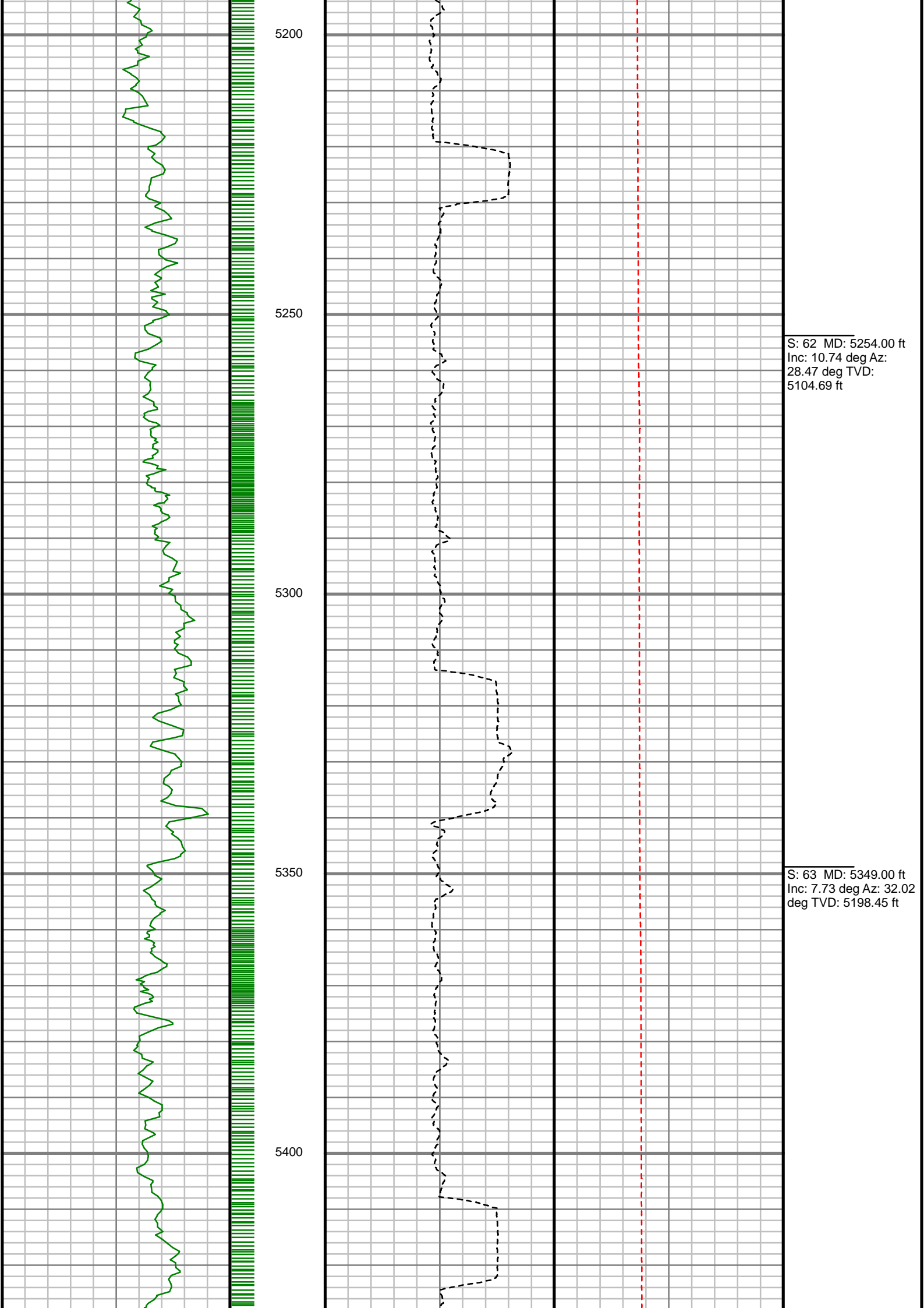


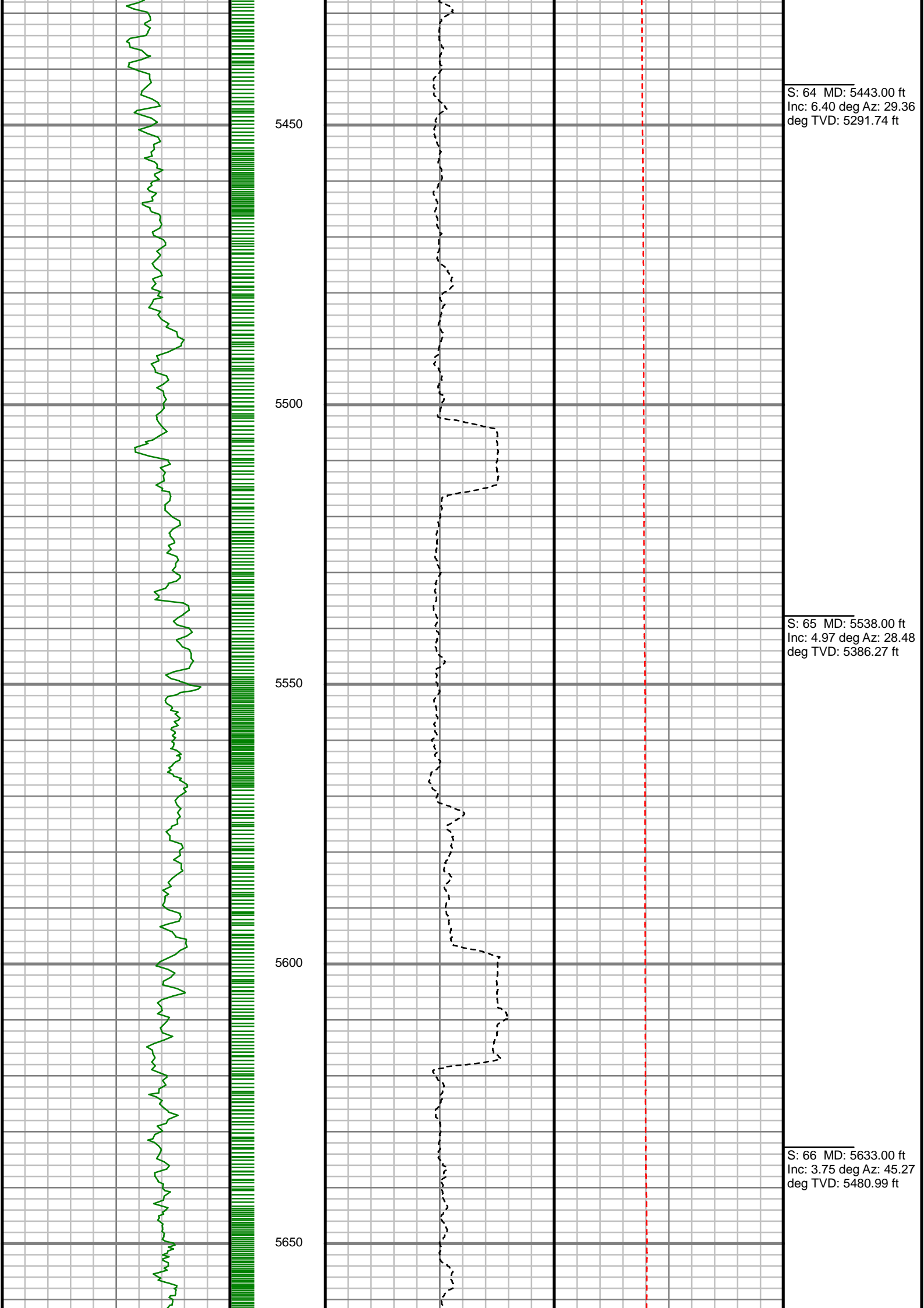


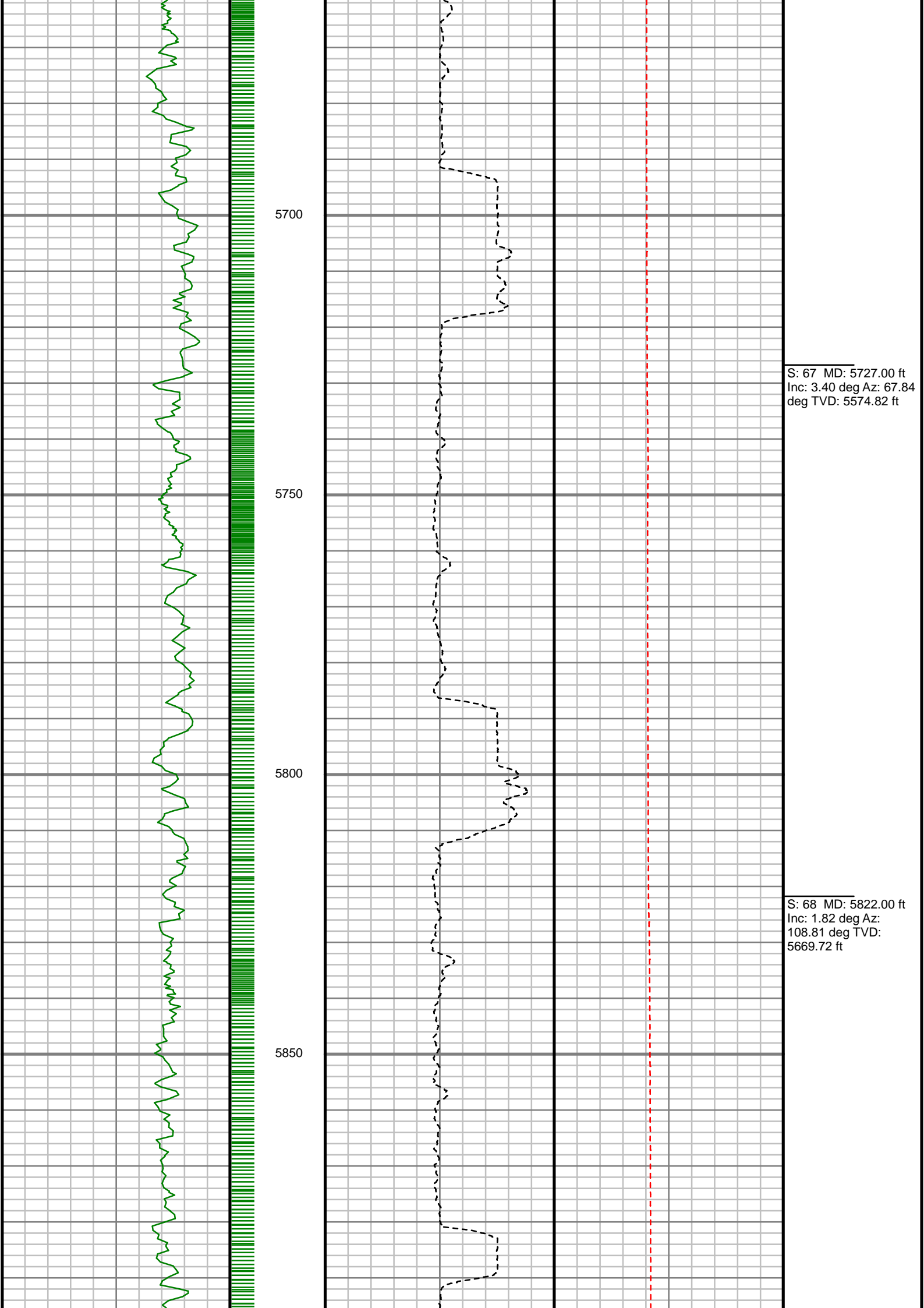
S: 57 MD: 4782.00 ft
Inc: 13.71 deg Az:
31.21 deg TVD:
4642.30 ft

S: 58 MD: 4876.00 ft
Inc: 12.38 deg Az:
29.44 deg TVD:
4733.87 ft



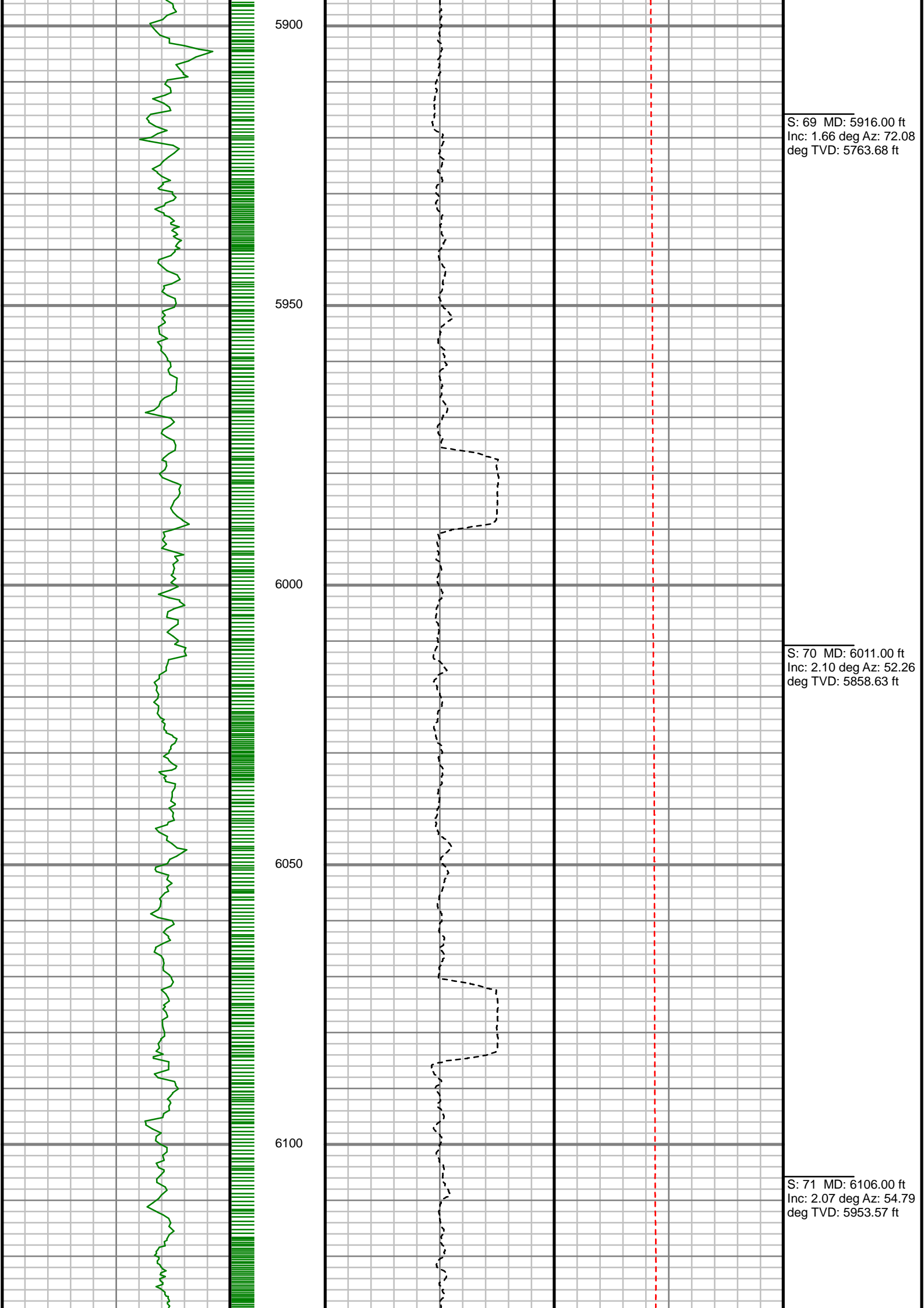


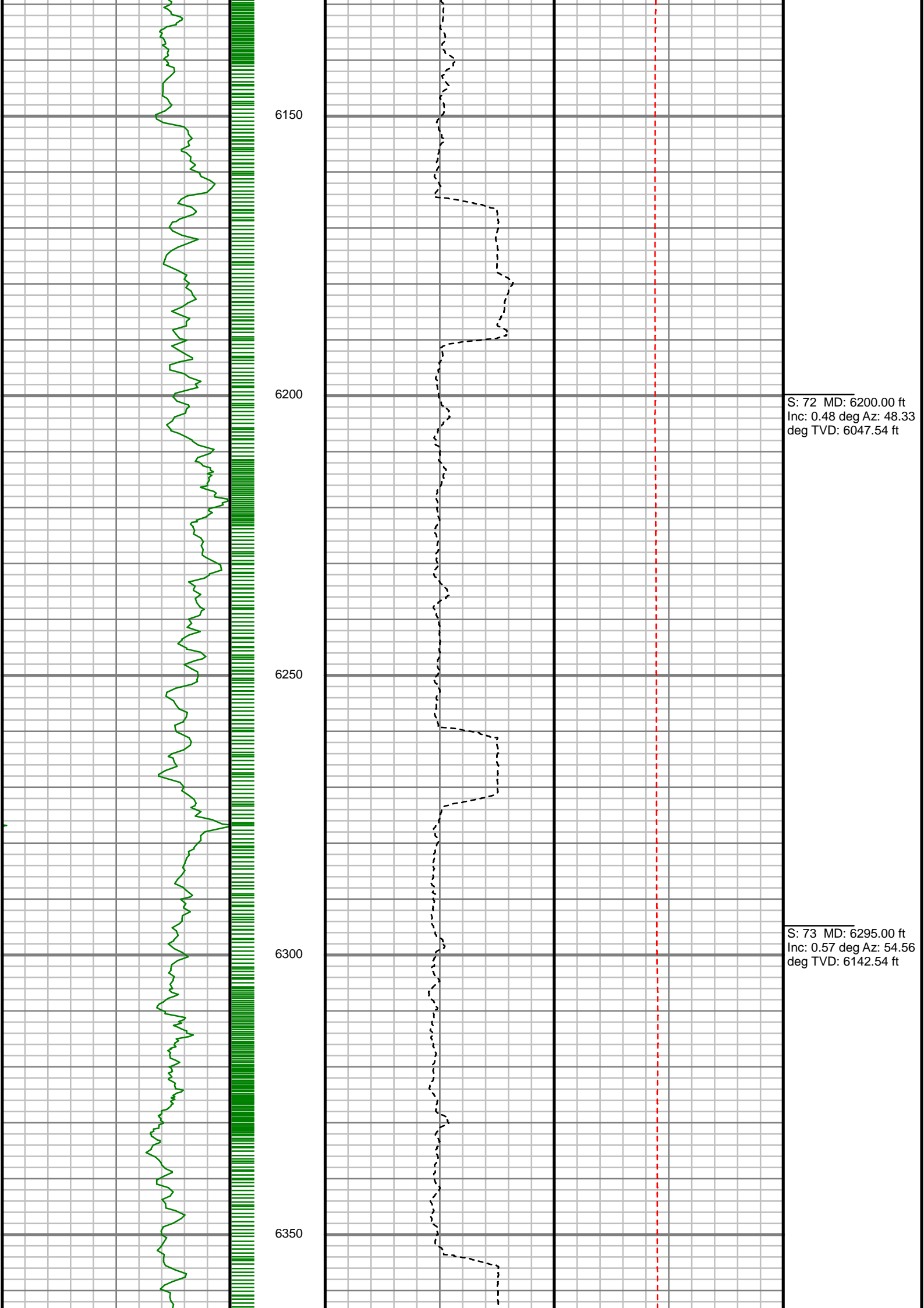


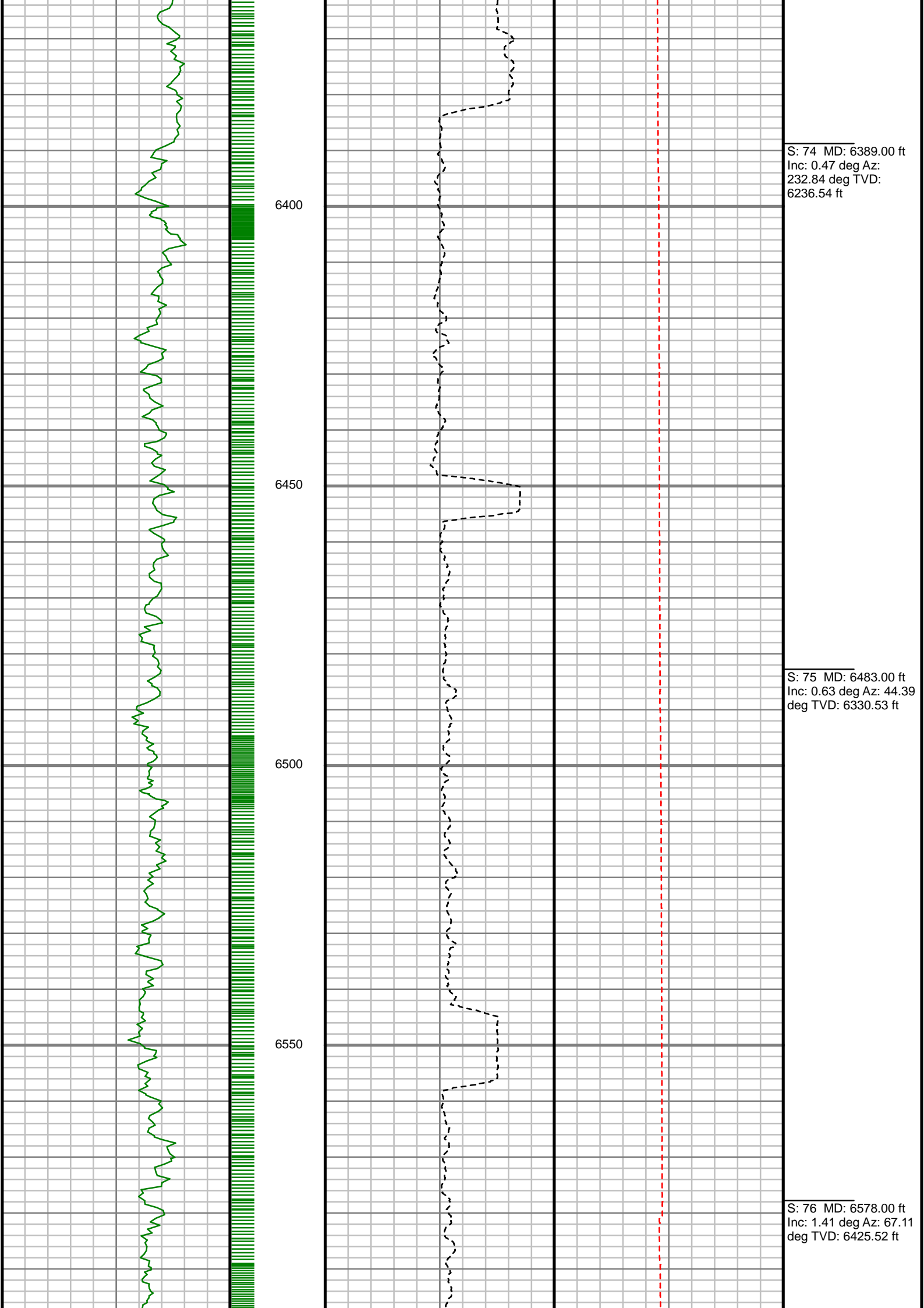


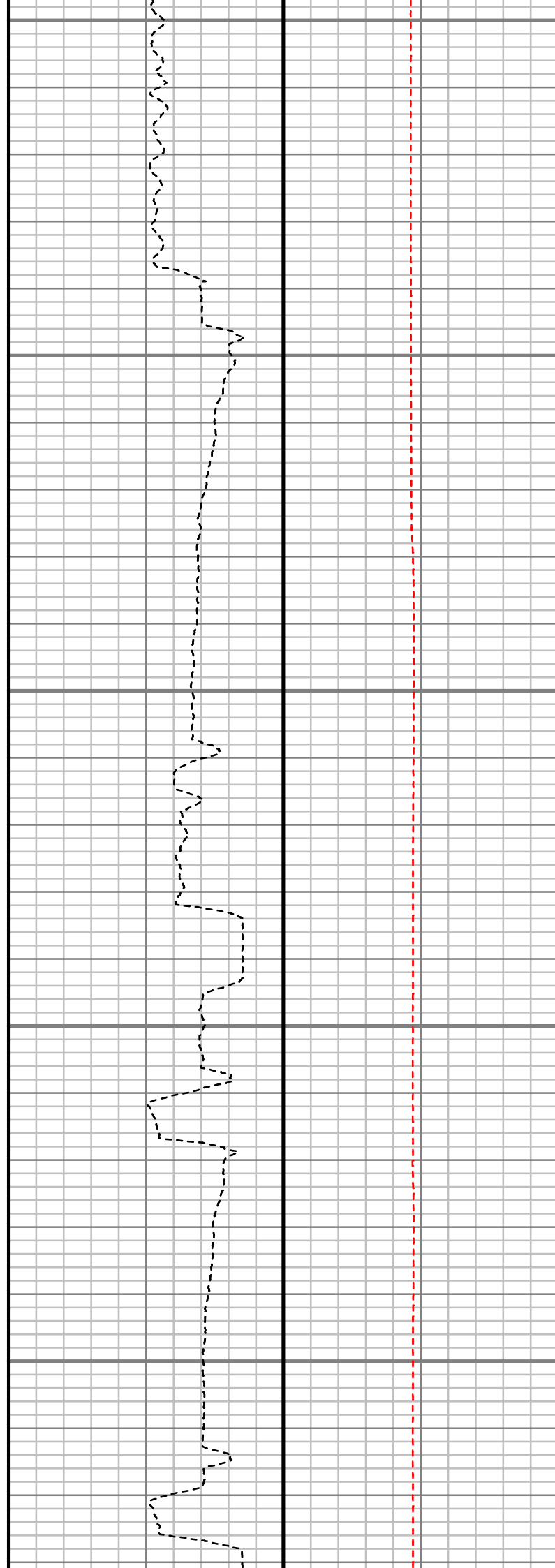
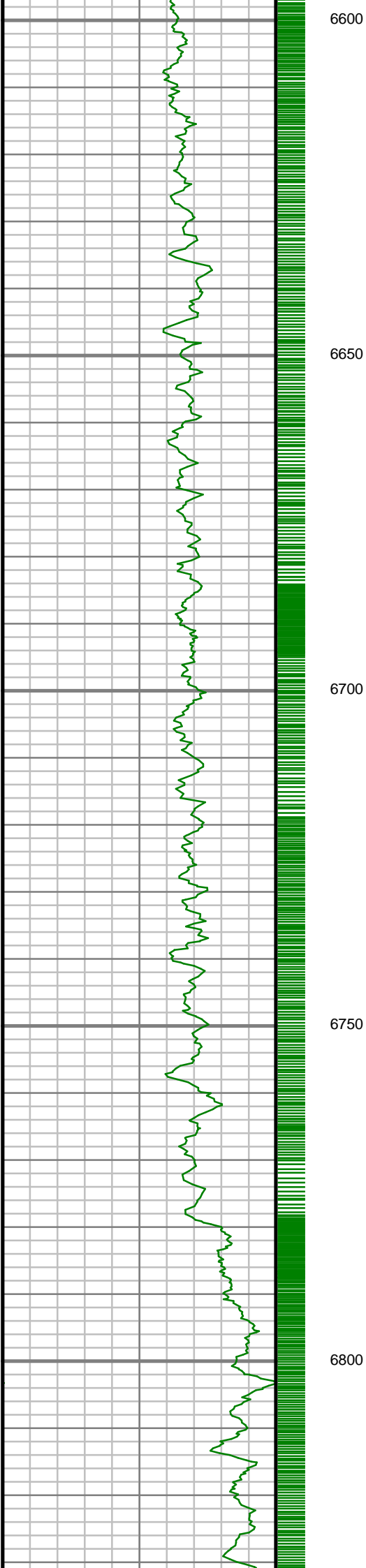
S: 67 MD: 5727.00 ft
Inc: 3.40 deg Az: 67.84
deg TVD: 5574.82 ft

S: 68 MD: 5822.00 ft
Inc: 1.82 deg Az:
108.81 deg TVD:
5669.72 ft



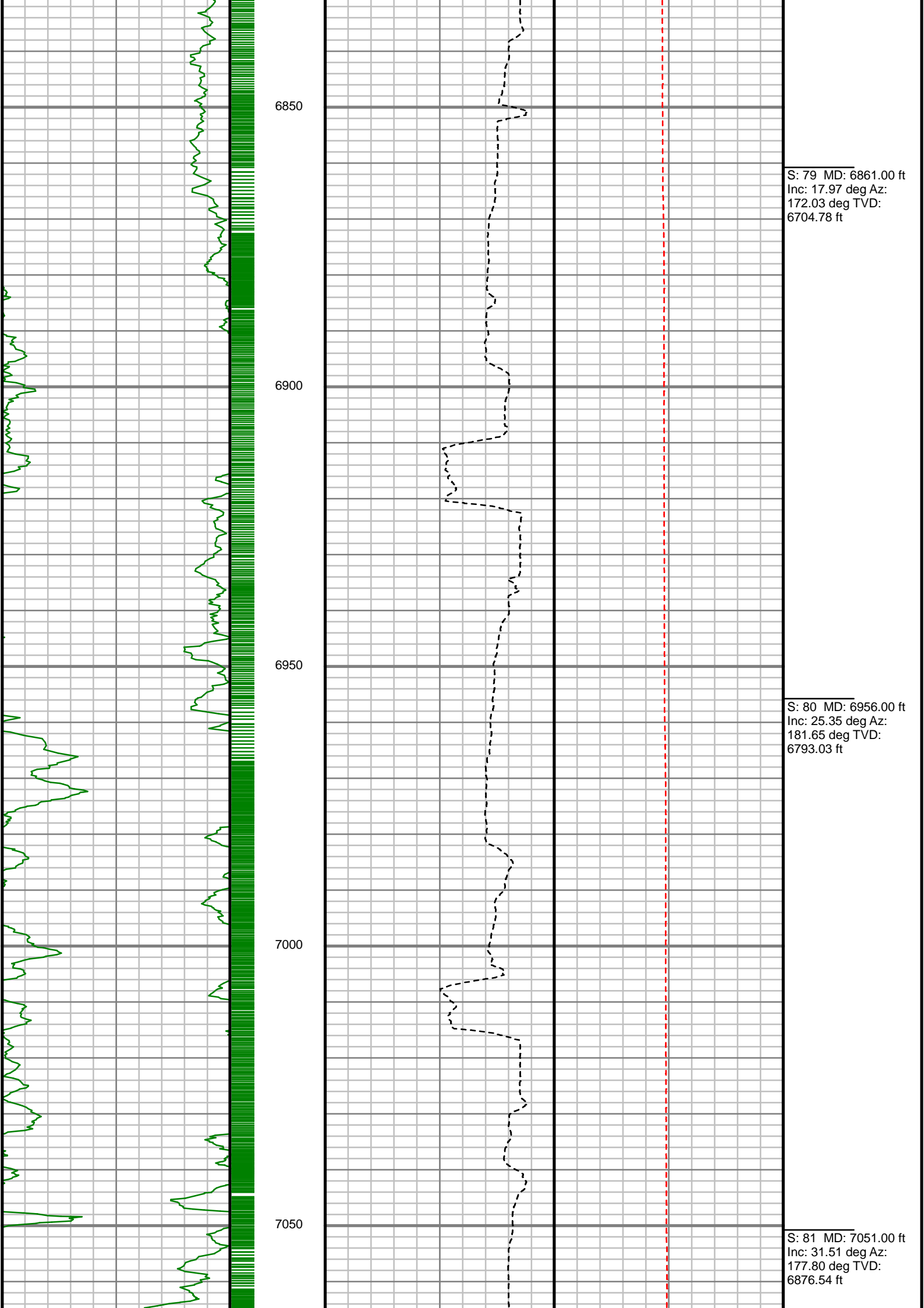


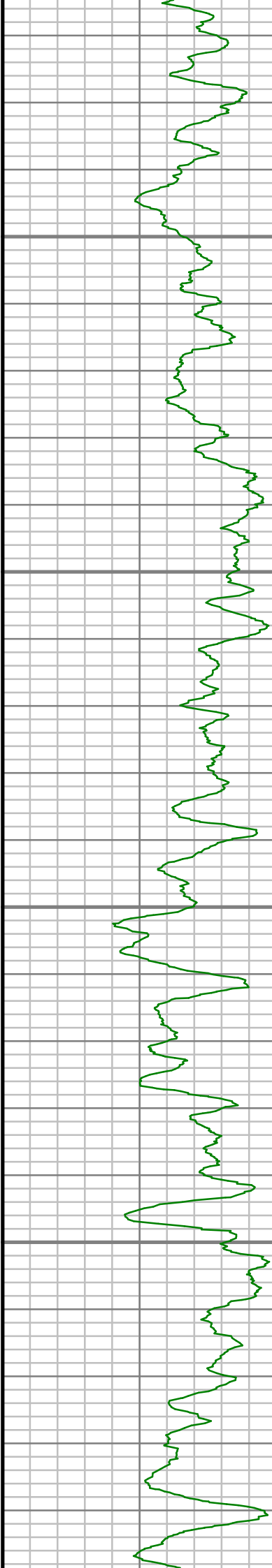




S: 77 MD: 6672.00 ft
Inc: 5.37 deg Az:
154.30 deg TVD:
6519.37 ft

S: 78 MD: 6767.00 ft
Inc: 9.54 deg Az:
165.96 deg TVD:
6613.55 ft



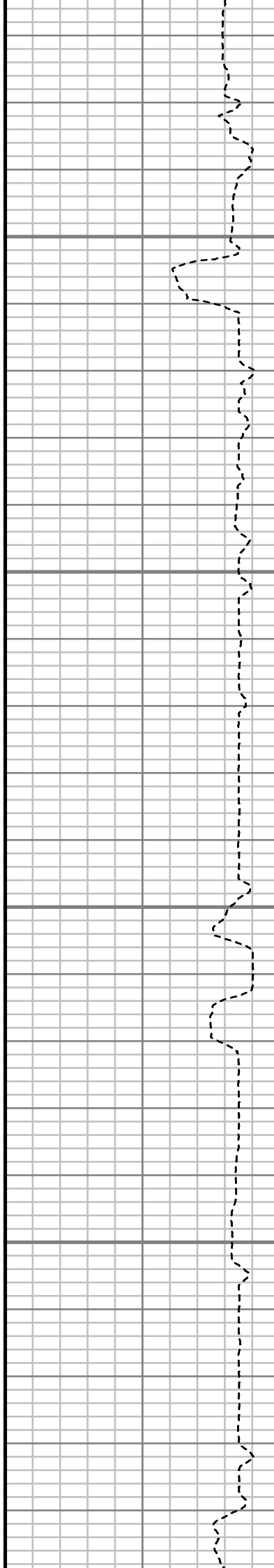


7100

7150

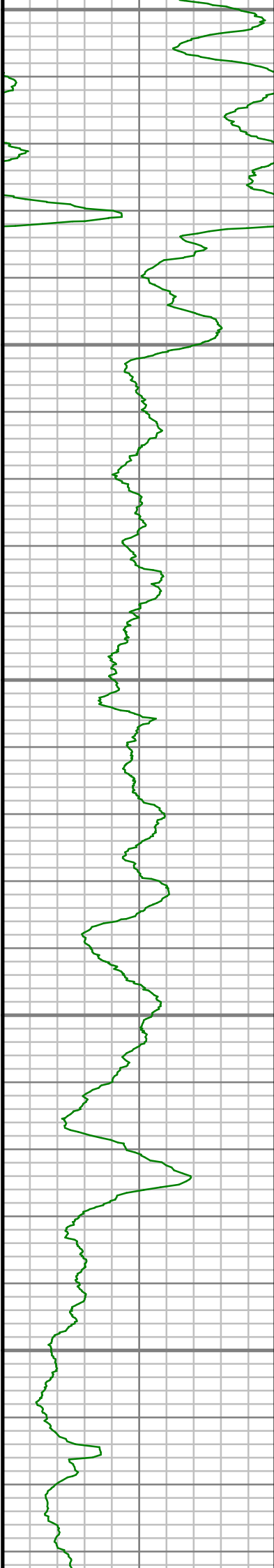
7200

7250



S: 82 MD: 7145.00 ft
Inc: 43.69 deg Az:
176.58 deg TVD:
6950.87 ft

S: 83 MD: 7239.00 ft
Inc: 55.56 deg Az:
179.81 deg TVD:
7011.66 ft



7300

7350

7400

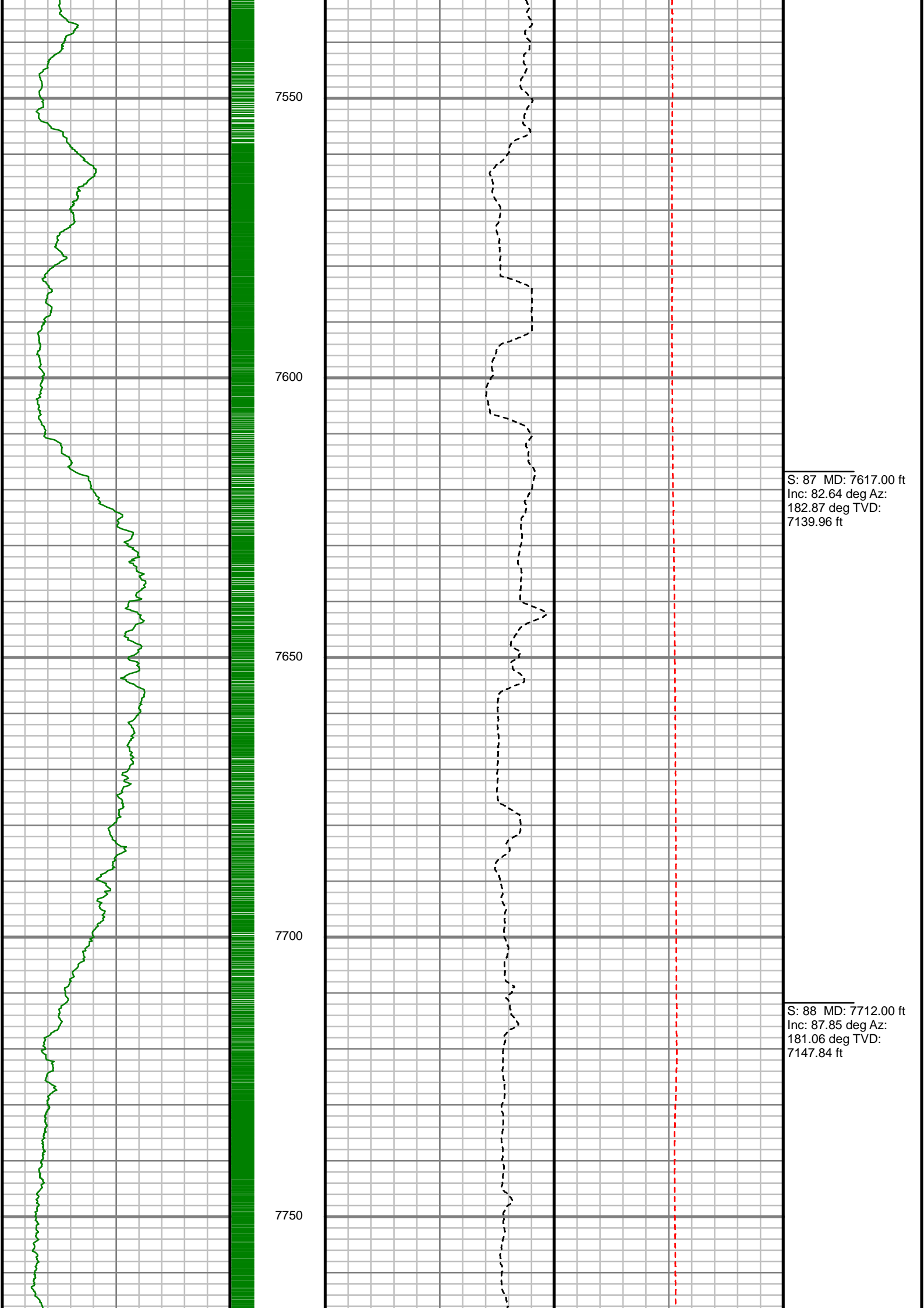
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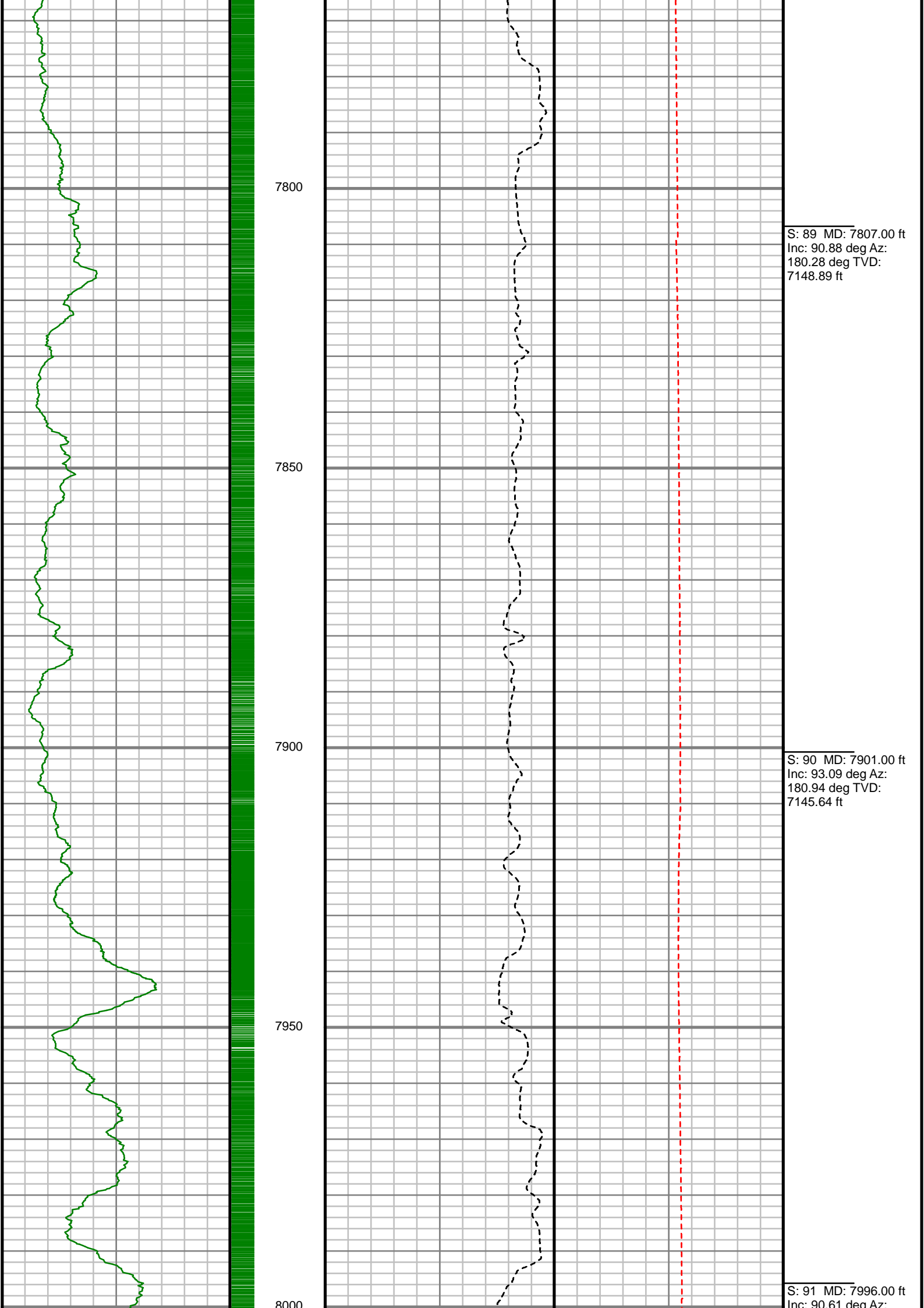
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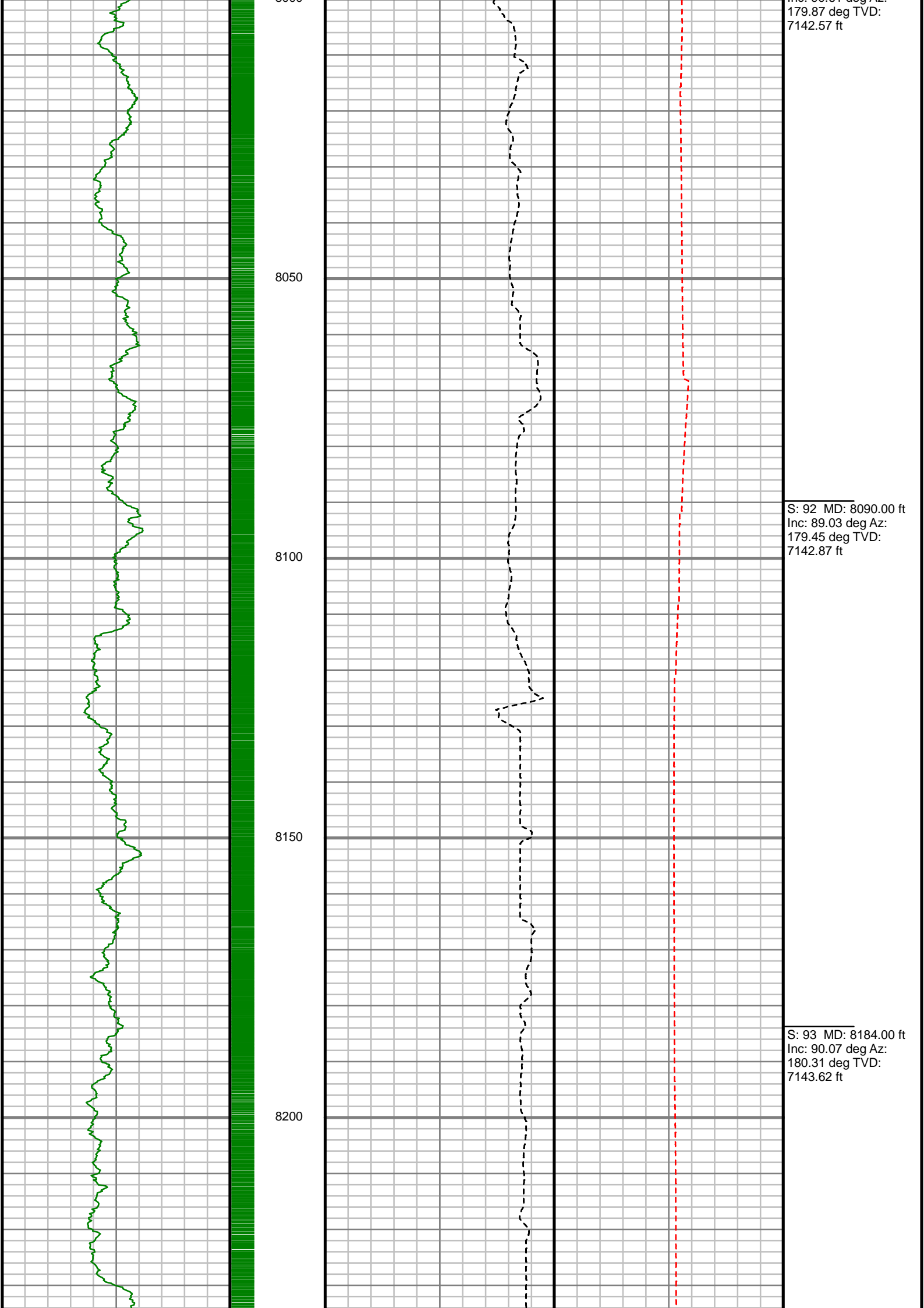
S: 84 MD: 7334.00 ft
Inc: 63.61 deg Az:
183.62 deg TVD:
7059.74 ft

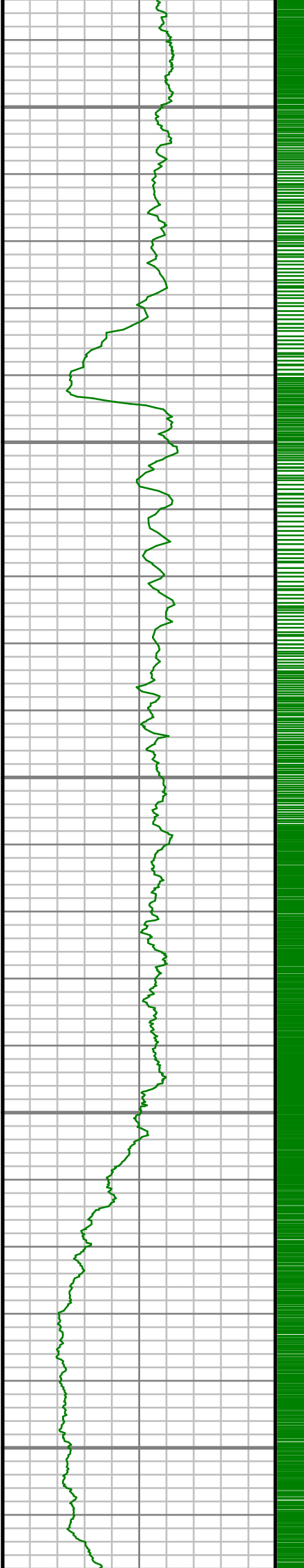
S: 85 MD: 7428.00 ft
Inc: 70.38 deg Az:
185.64 deg TVD:
7096.45 ft

S: 86 MD: 7523.00 ft
Inc: 76.85 deg Az:
186.24 deg TVD:
7123.23 ft









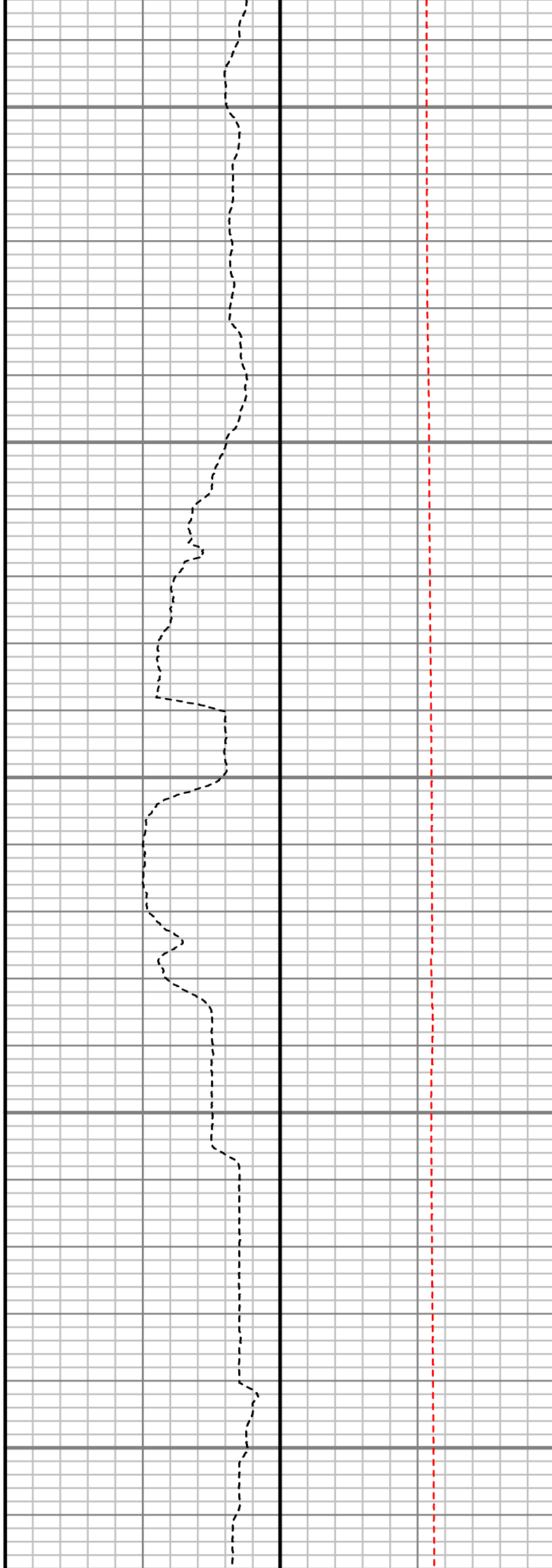
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8300

8350

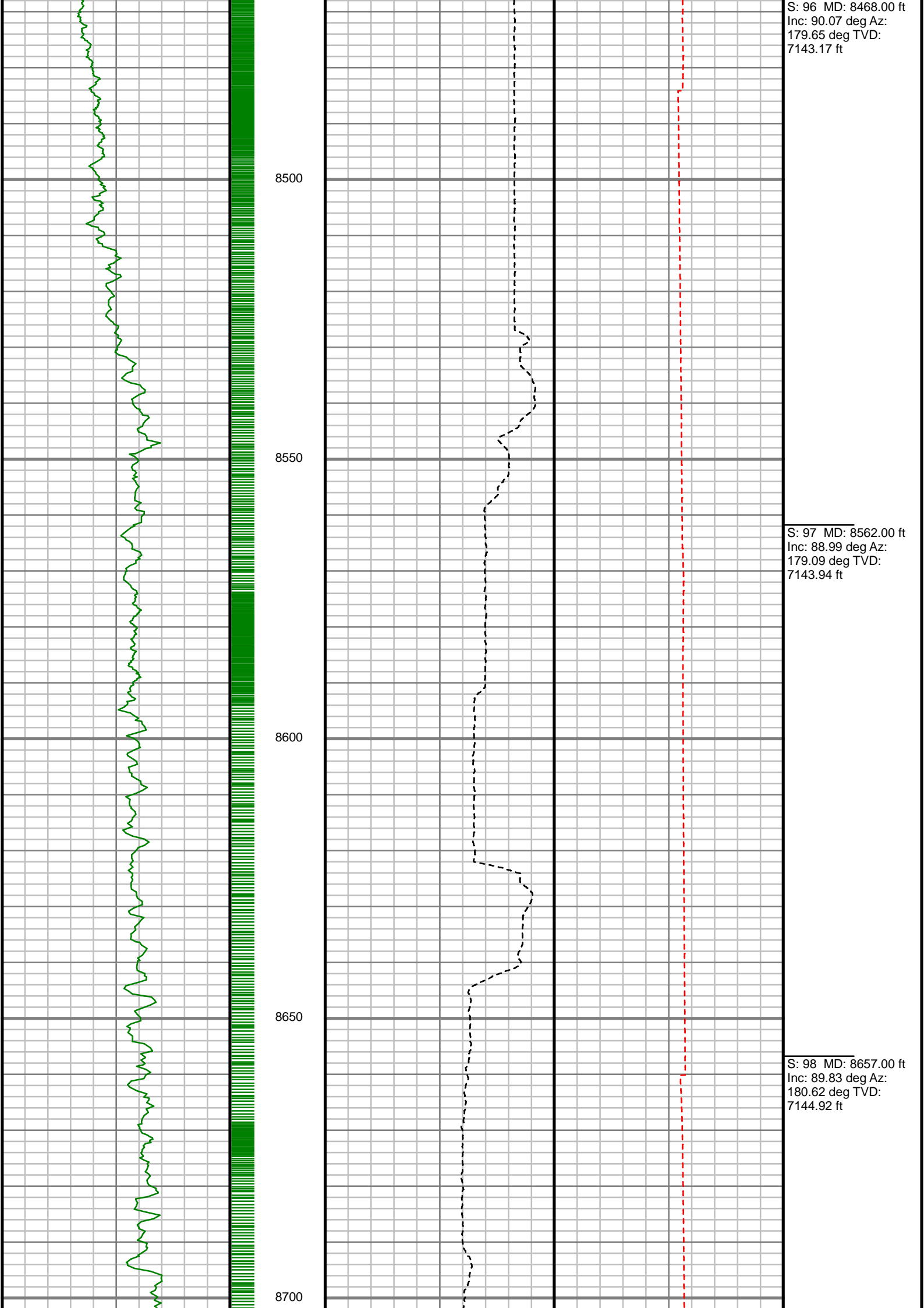
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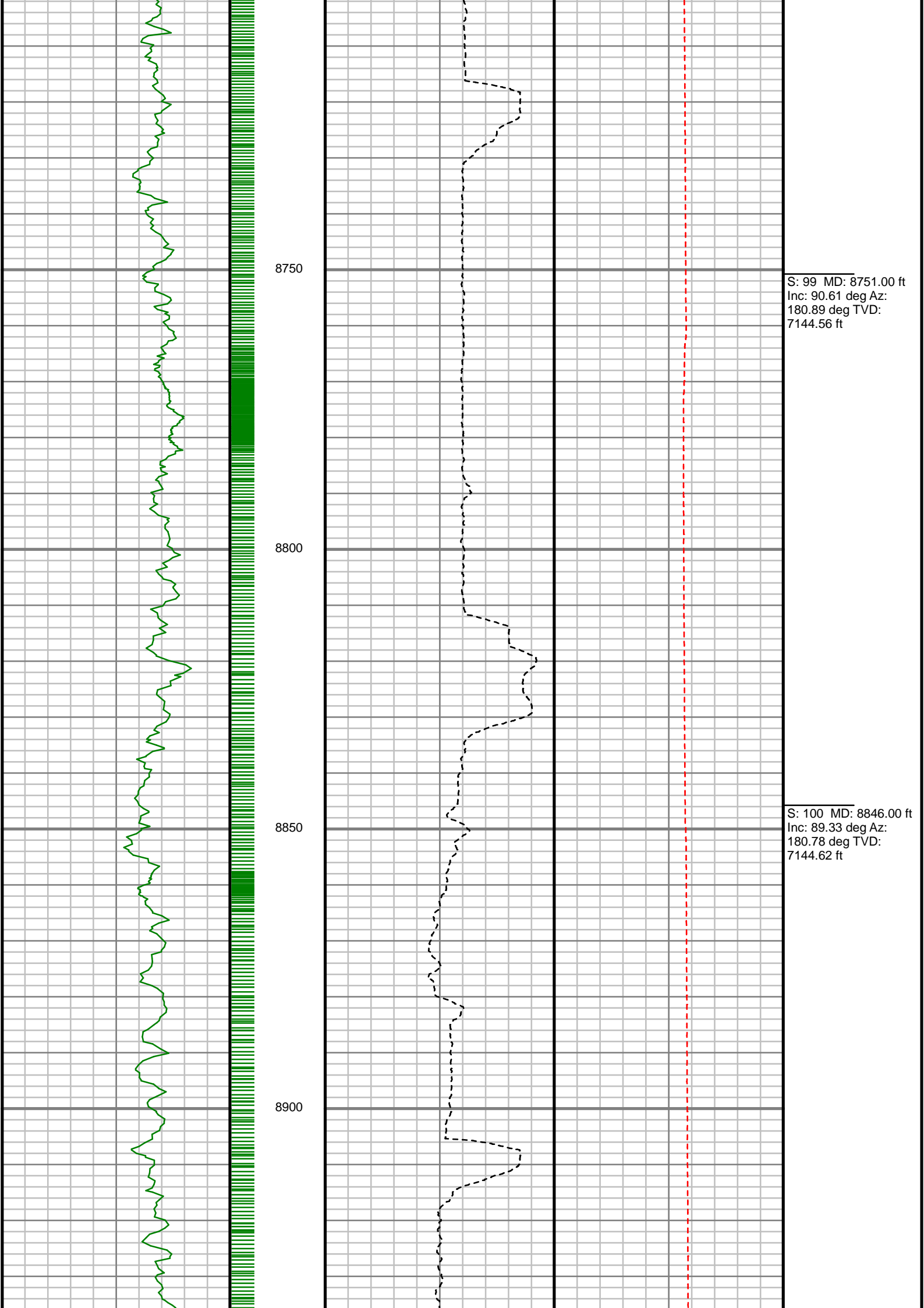
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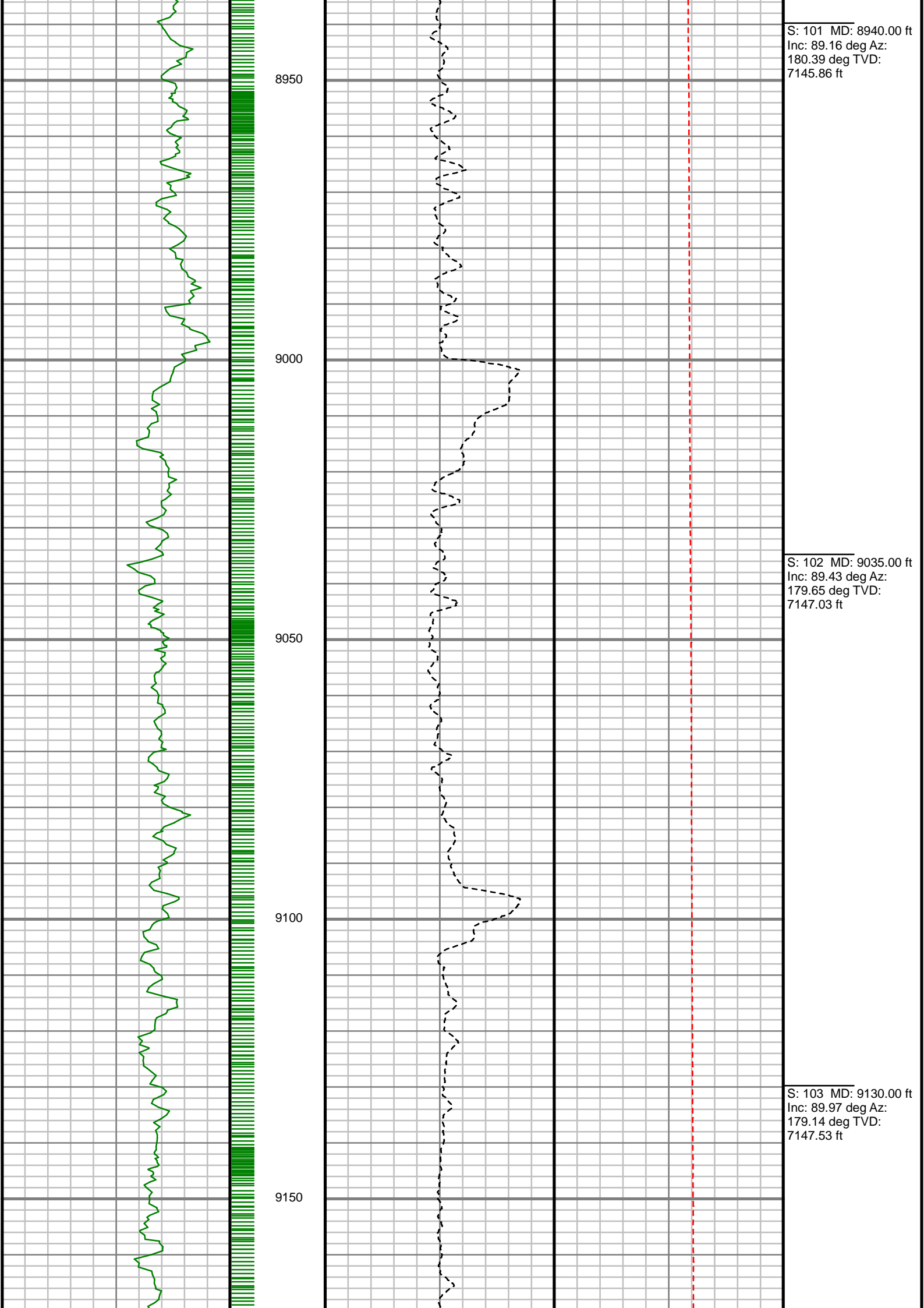


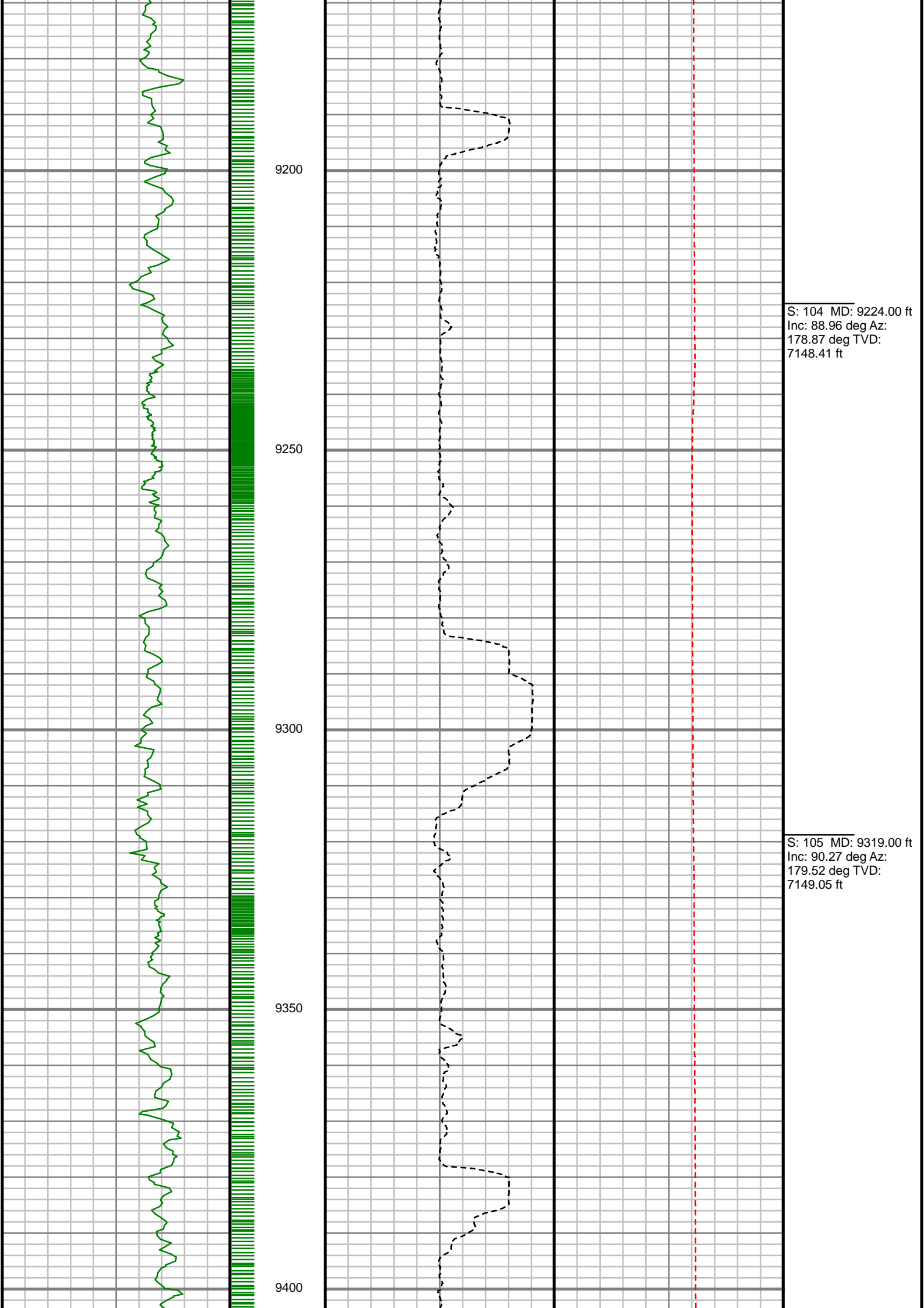
S: 94 MD: 8279.00 ft
Inc: 90.13 deg Az:
179.08 deg TVD:
7143.45 ft

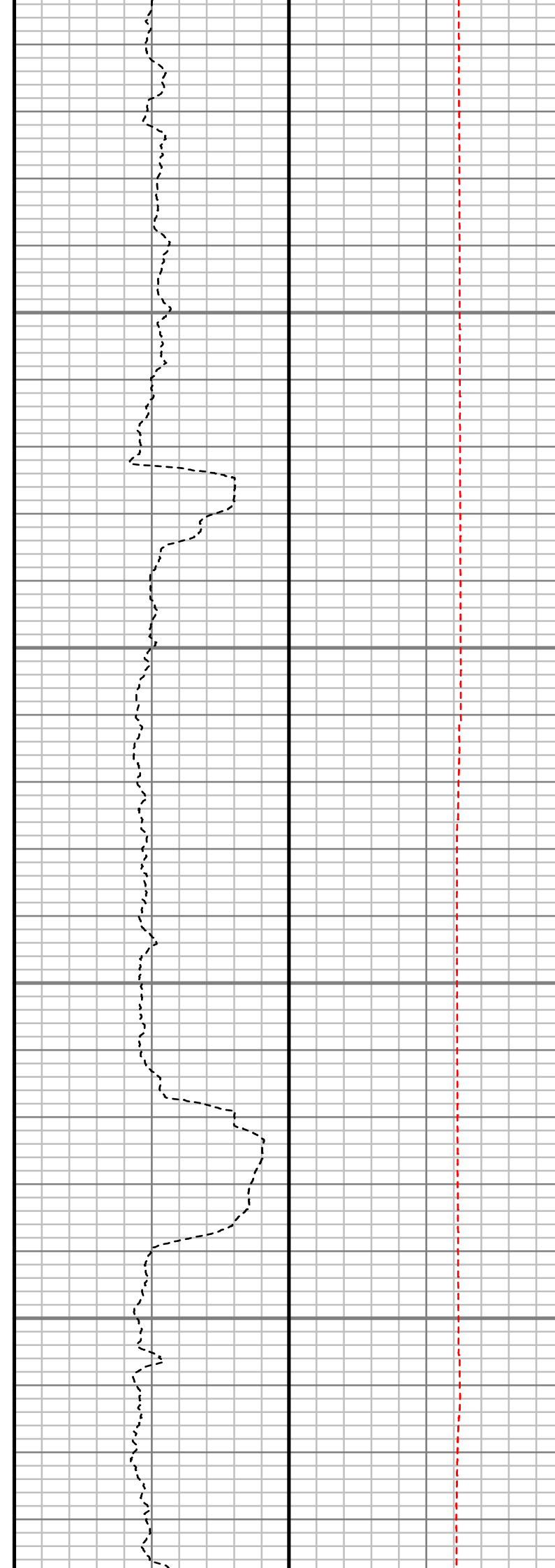
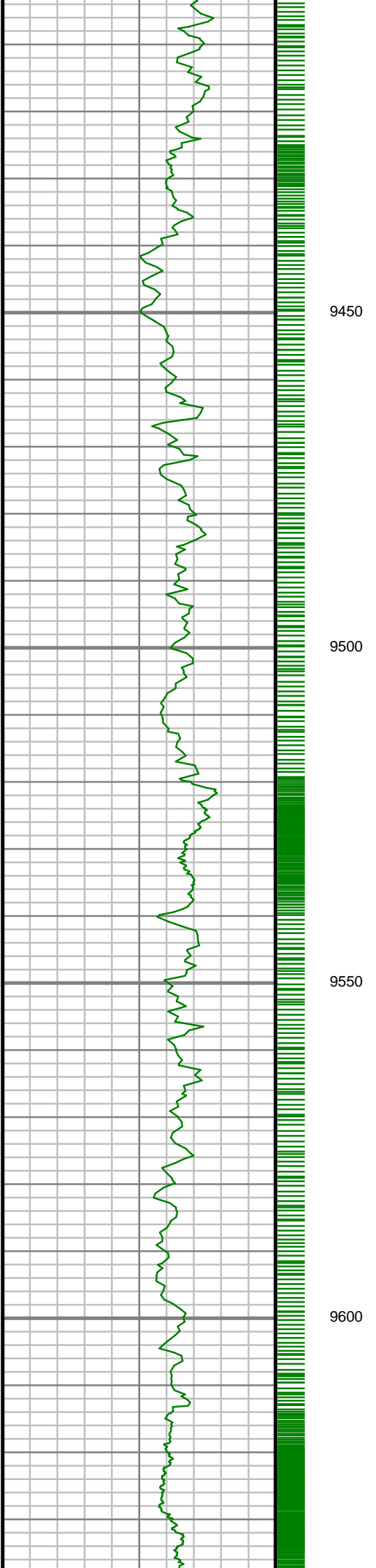
S: 95 MD: 8373.00 ft
Inc: 90.07 deg Az:
178.49 deg TVD:
7143.28 ft







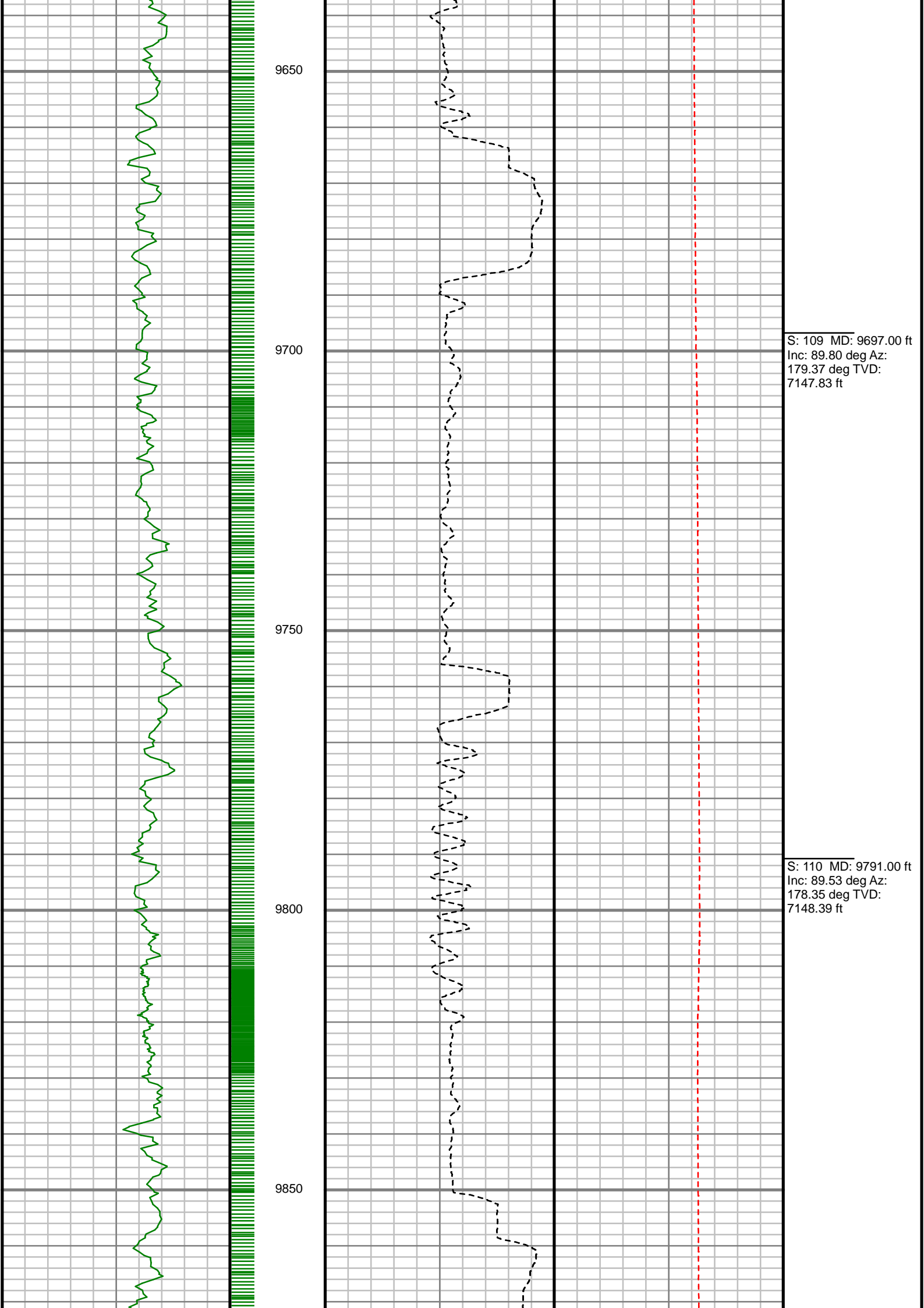


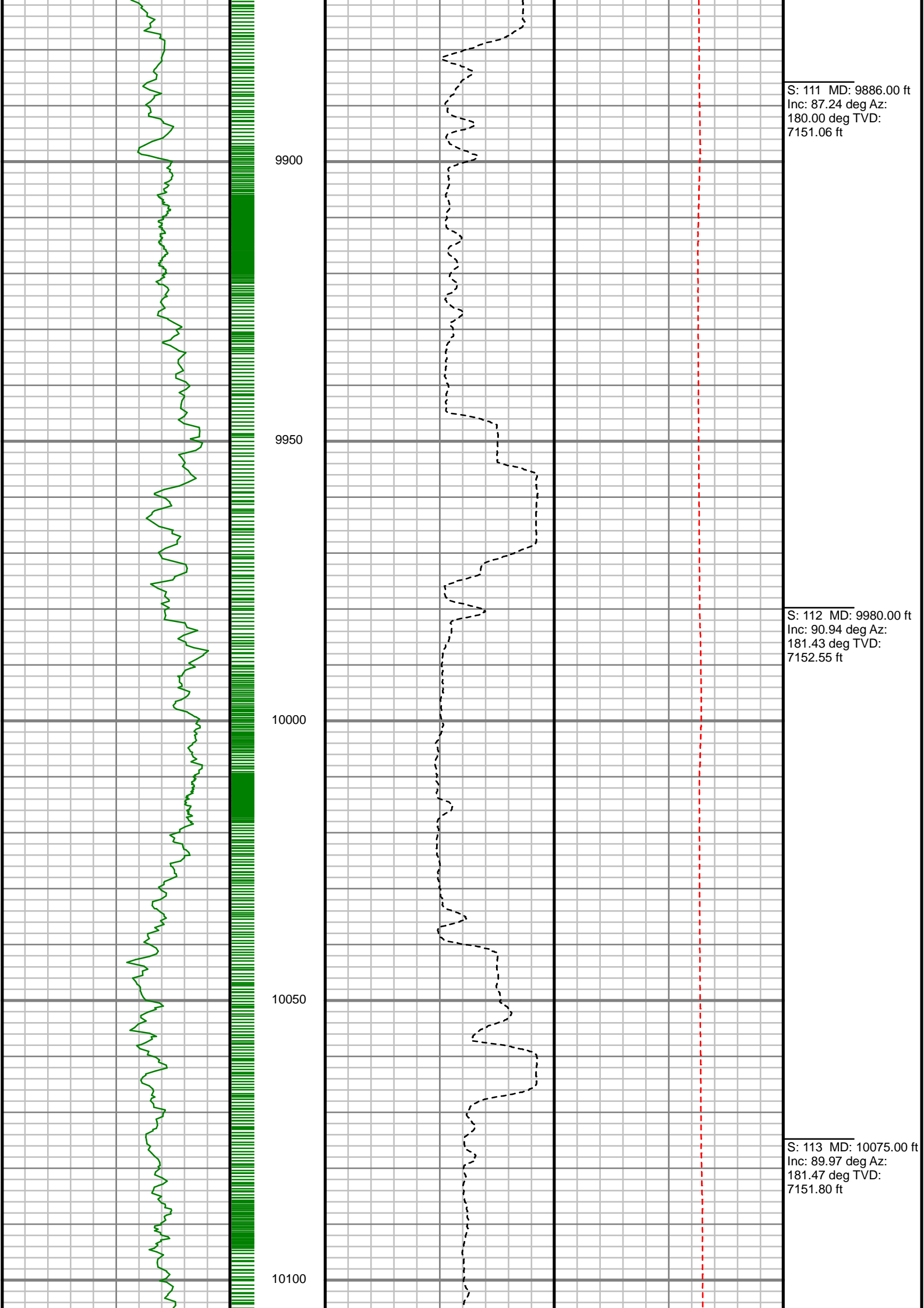


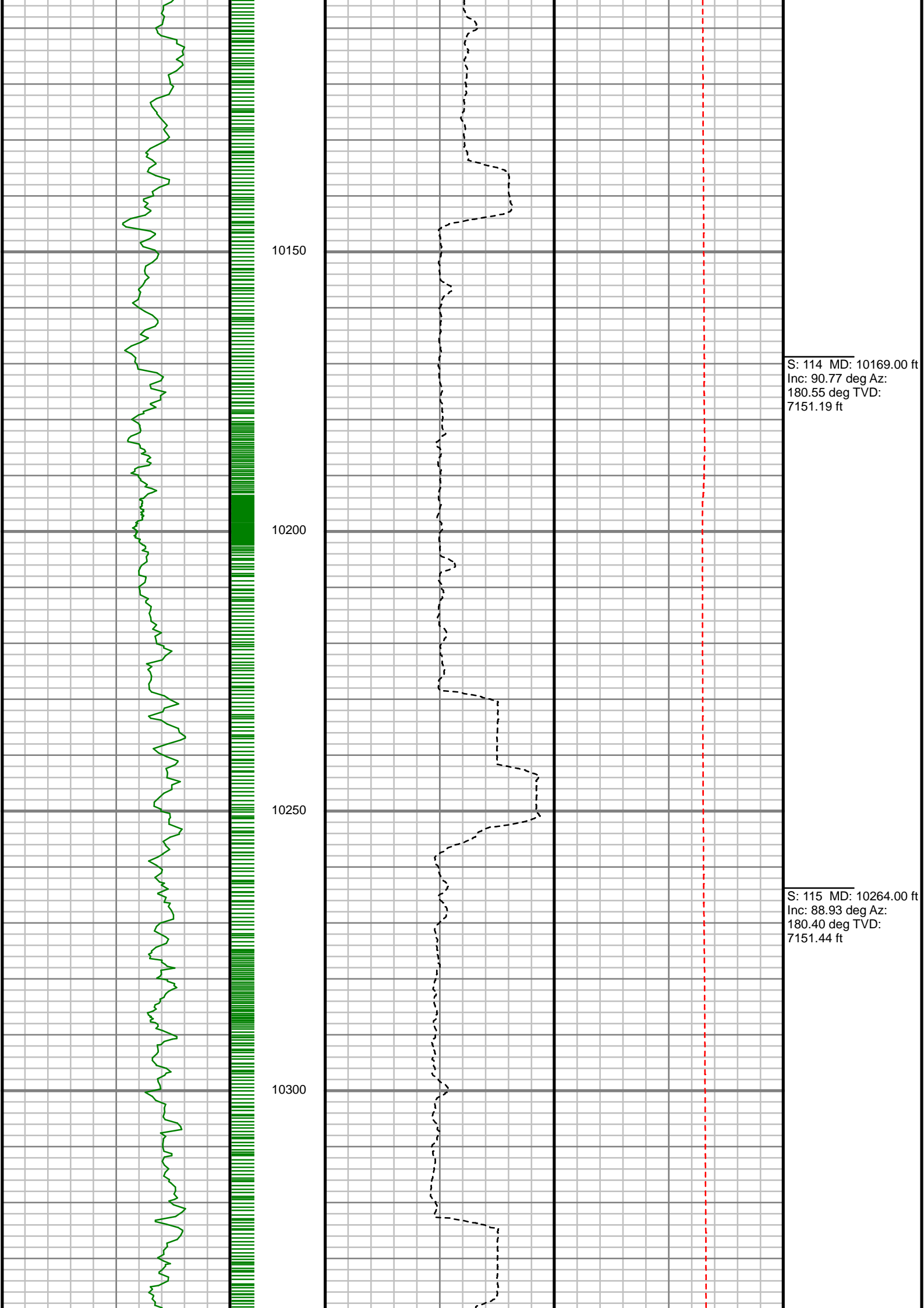
S: 106 MD: 9413.00 ft
Inc: 90.30 deg Az:
179.15 deg TVD:
7148.58 ft

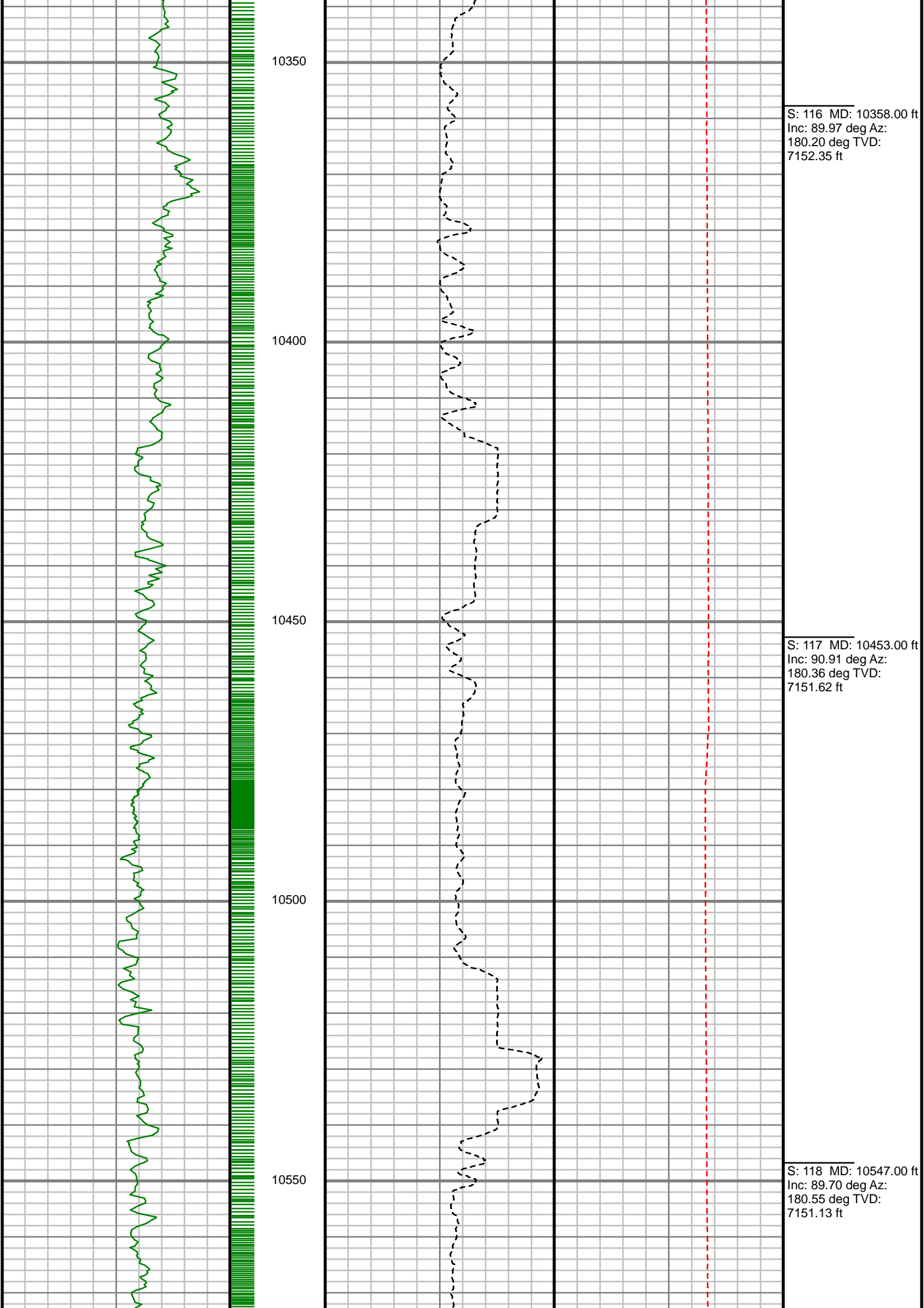
S: 107 MD: 9508.00 ft
Inc: 91.31 deg Az:
179.15 deg TVD:
7147.24 ft

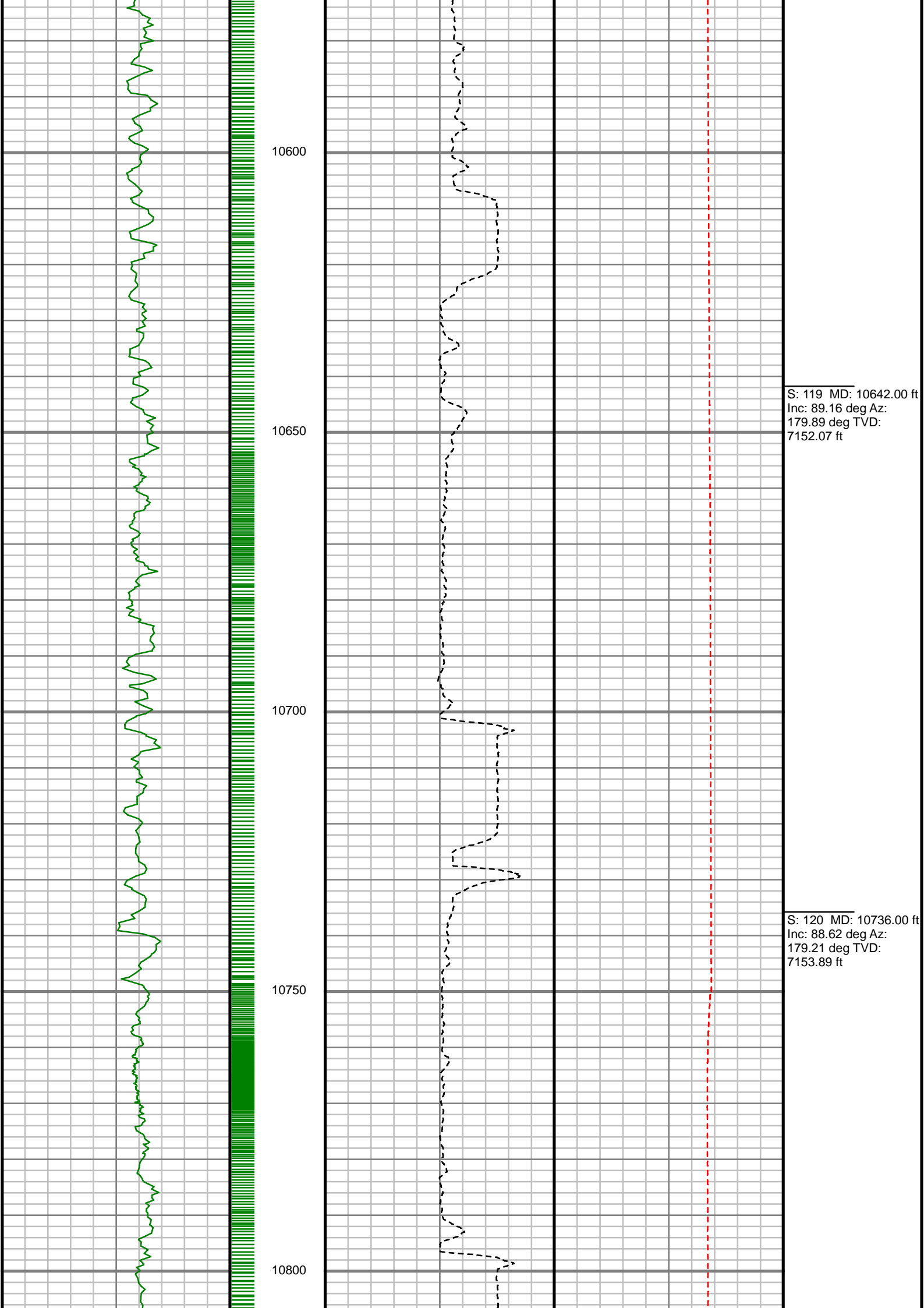
S: 108 MD: 9602.00 ft
Inc: 89.09 deg Az:
178.14 deg TVD:
7146.91 ft

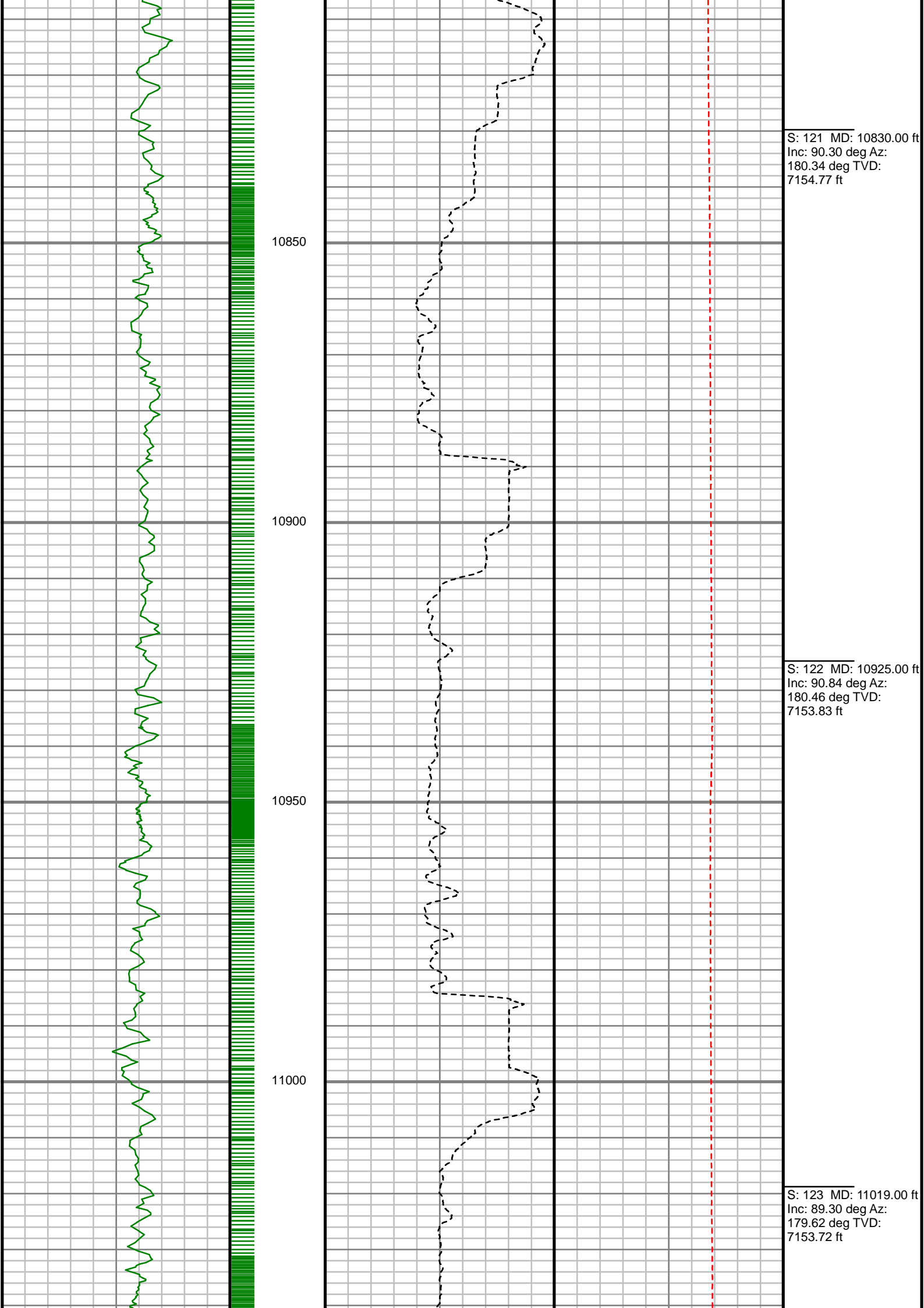


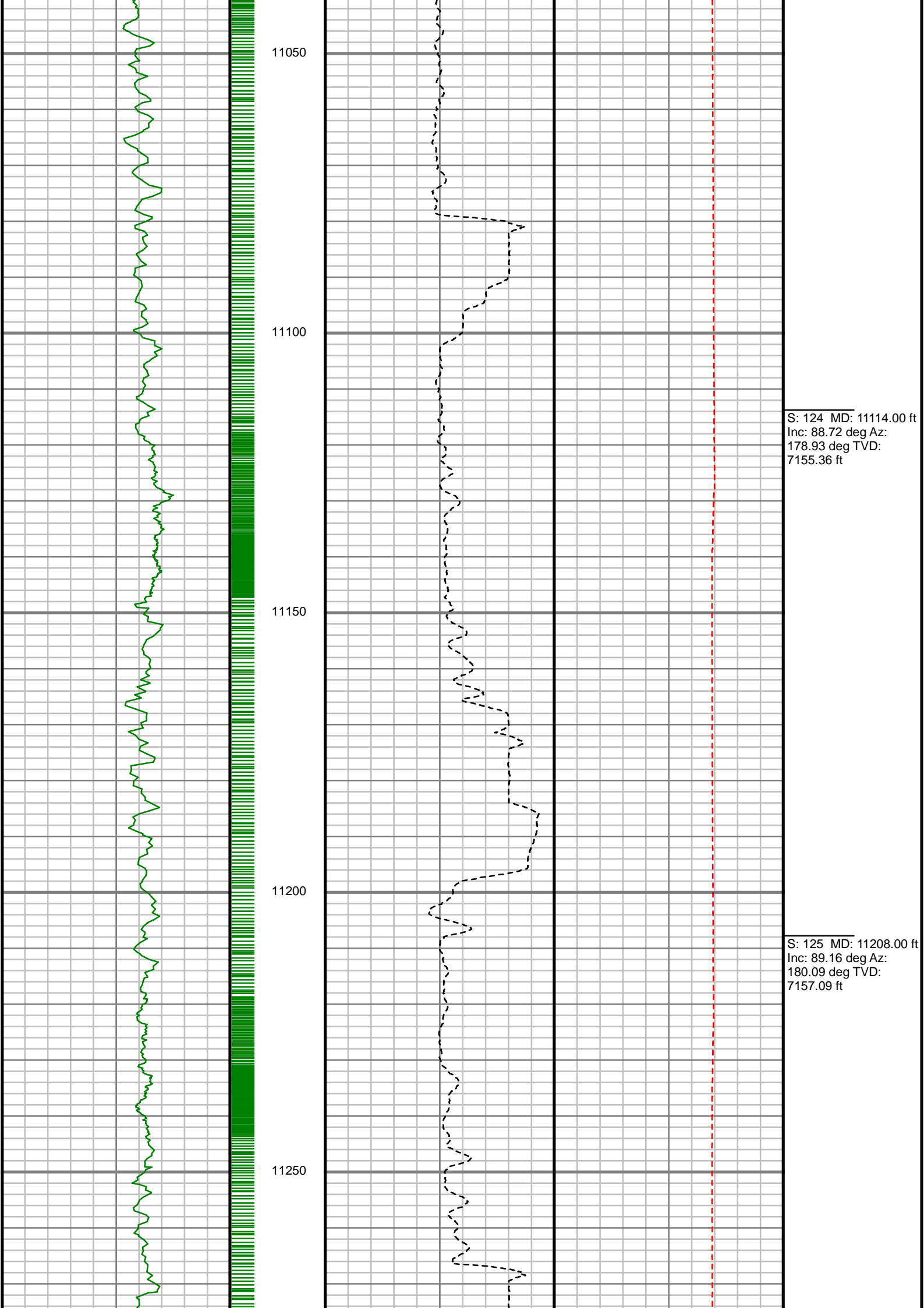


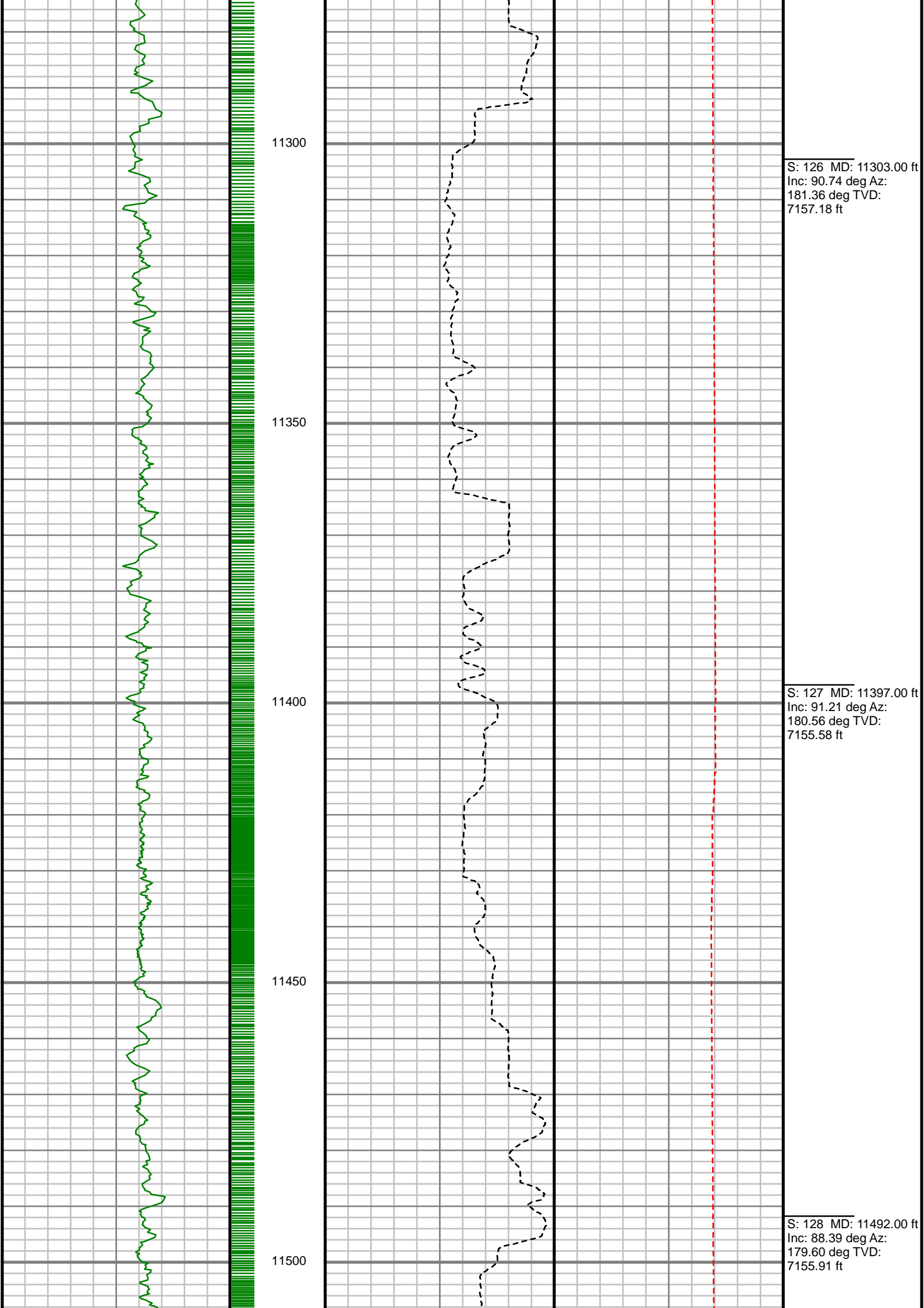


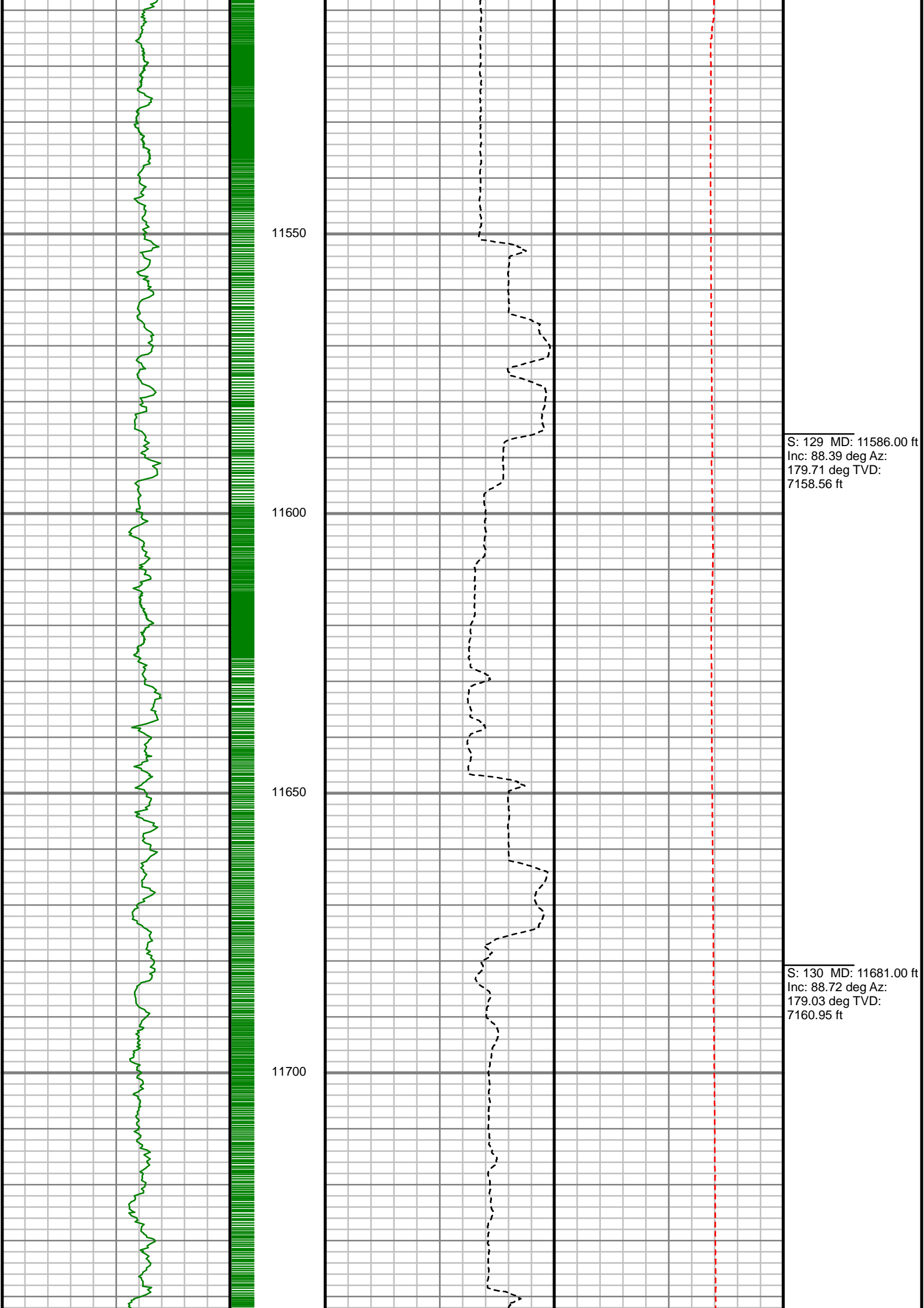


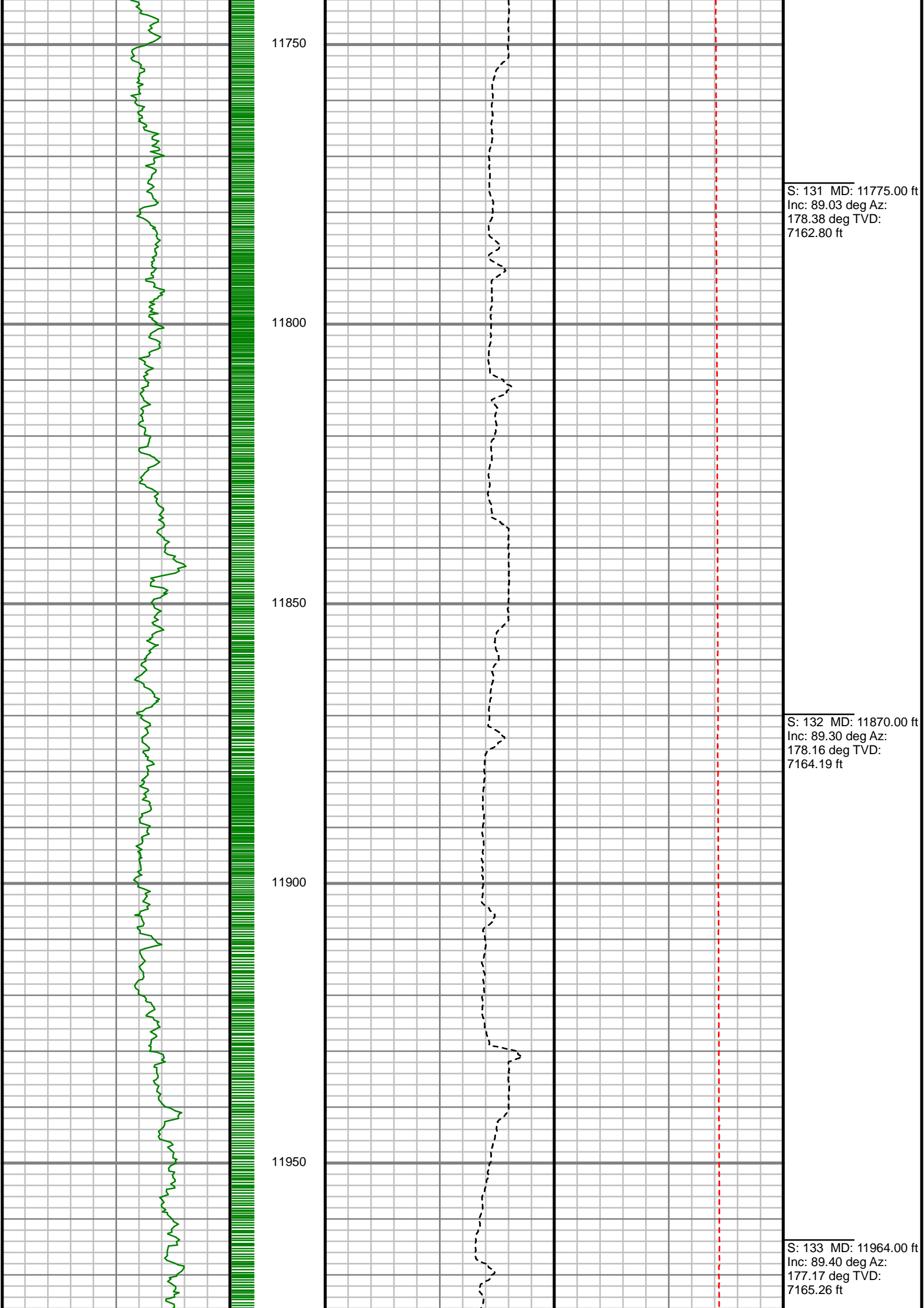








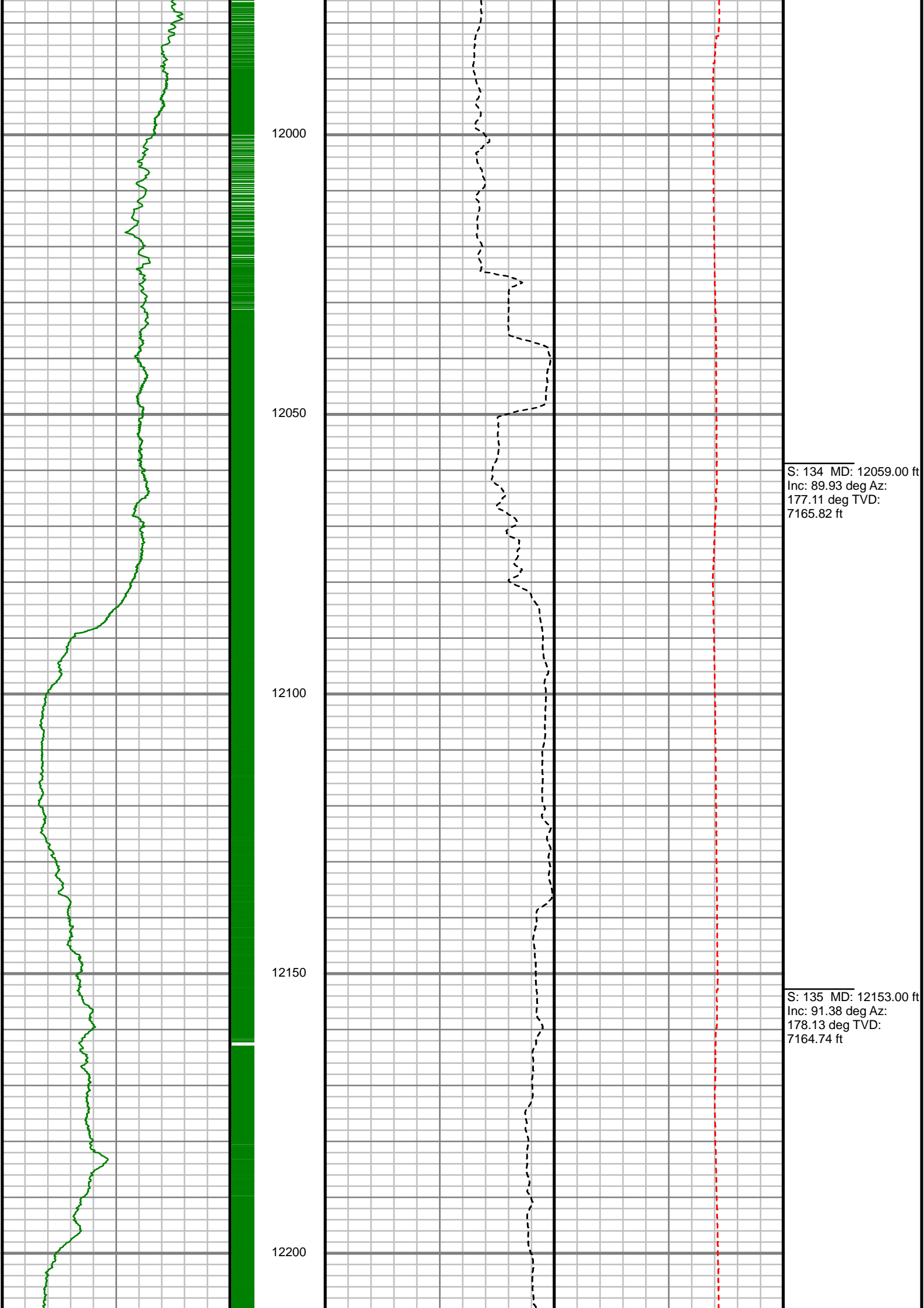


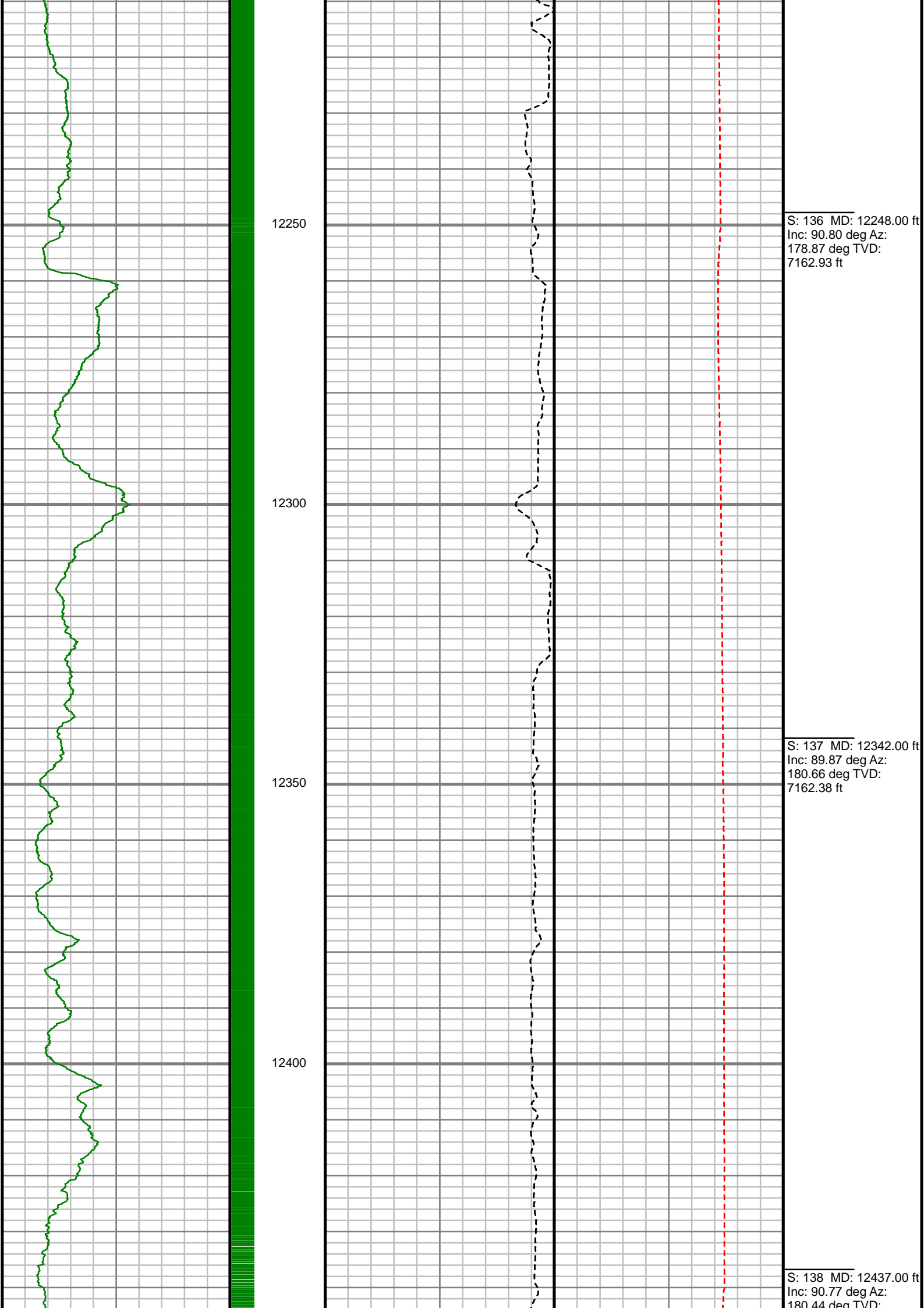


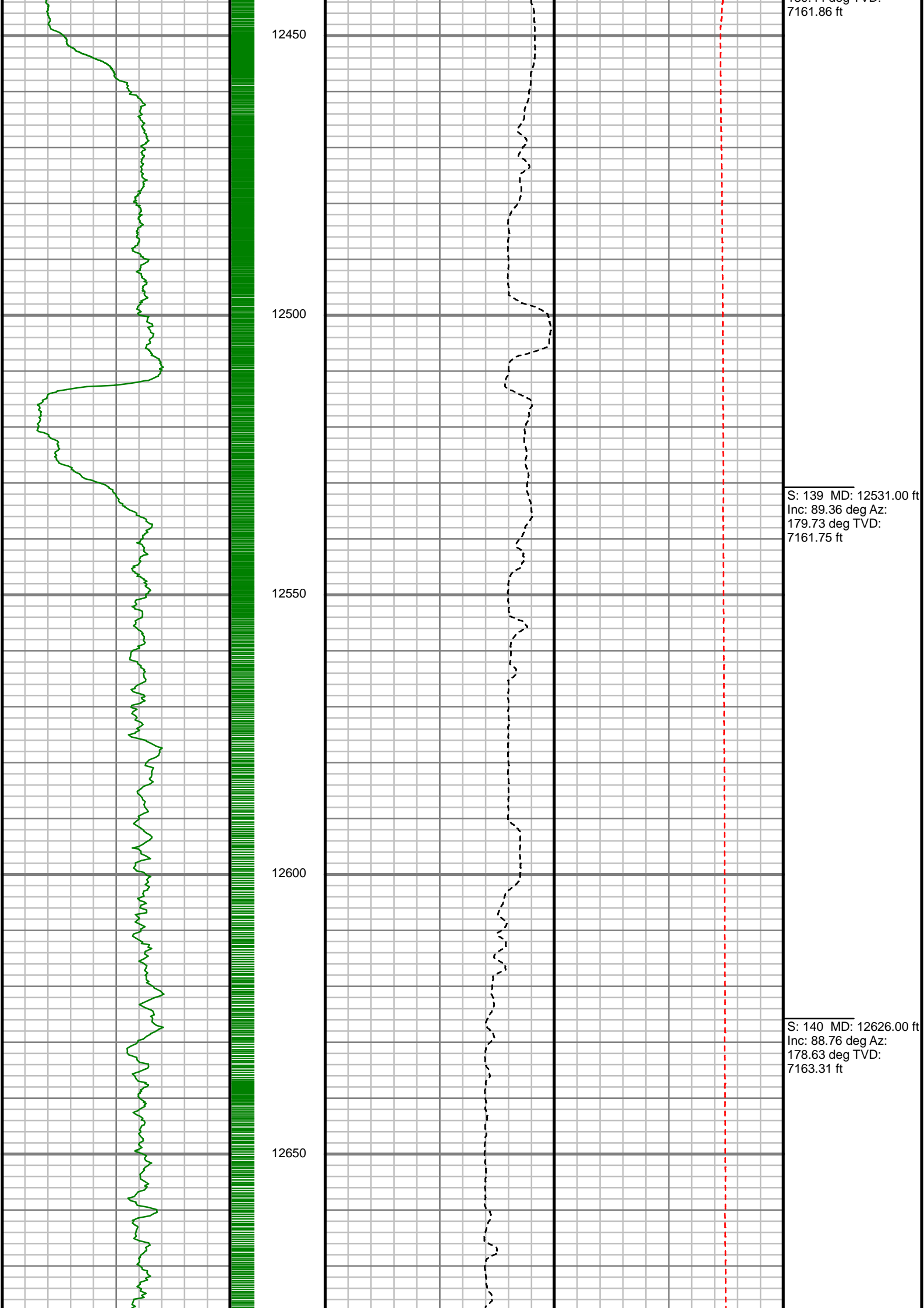
S: 131 MD: 11775.00 ft
Inc: 89.03 deg Az:
178.38 deg TVD:
7162.80 ft

S: 132 MD: 11870.00 ft
Inc: 89.30 deg Az:
178.16 deg TVD:
7164.19 ft

S: 133 MD: 11964.00 ft
Inc: 89.40 deg Az:
177.17 deg TVD:
7165.26 ft



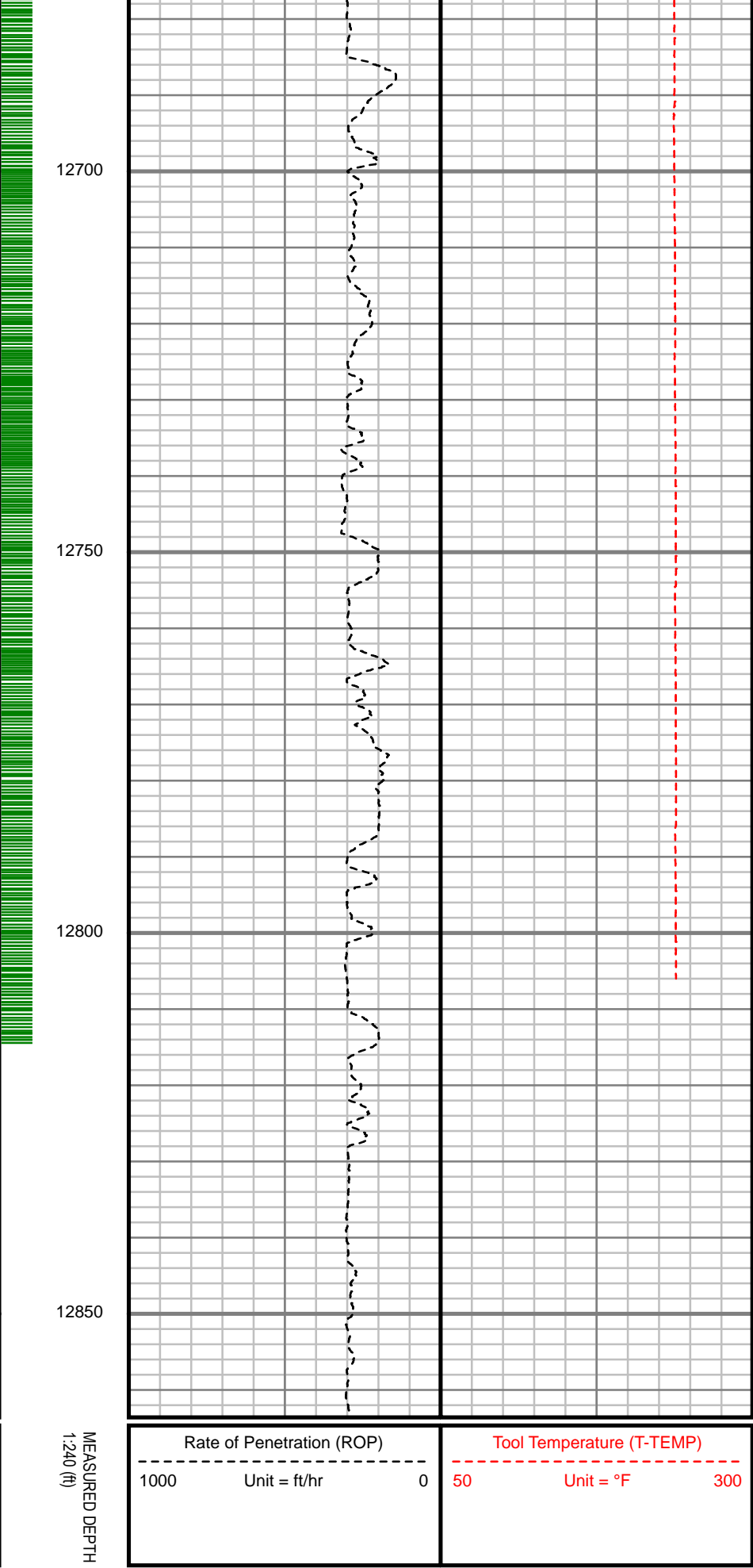
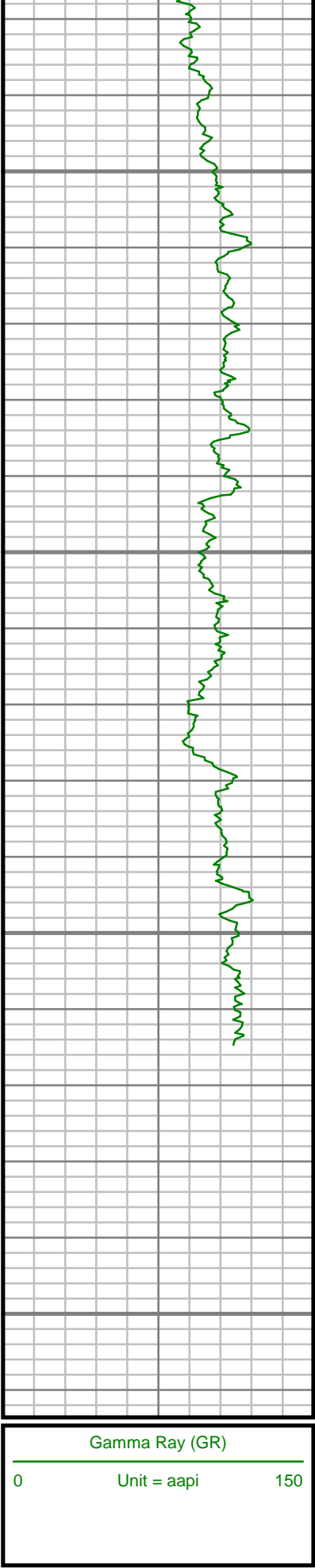




7161.86 ft

S: 139 MD: 12531.00 ft
Inc: 89.36 deg Az:
179.73 deg TVD:
7161.75 ft

S: 140 MD: 12626.00 ft
Inc: 88.76 deg Az:
178.63 deg TVD:
7163.31 ft



S: 141 MD: 12720.00 ft
Inc: 89.63 deg Az:
178.21 deg TVD:
7164.63 ft

S: 142 MD: 12804.00 ft
Inc: 90.57 deg Az:
177.98 deg TVD:
7164.48 ft

Comments

Well Location	CHEESE 1-28HZ
Well Name	CHEESE 38C-28HZ
Survey Date	6/8/2015
Latitude	40°12'9.040"N
Longitude	104°39'43.261"W
Btotal	52502, 52528 nT
Dip	66.87, 66.89 deg
Magnetic Declination	8.45 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), 179.95Azim (deg)
Operator(s)	B. GREER, S. WAXLER

Well Notes
SURVEYS FROM 0 FT. TO 1212 FT. WERE ACQUIRED BY CATHEDRAL MWD.
SURVEYS FROM 1212 FT. TO 12804 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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid
20.00	0.00	0.00	20.00	0.00	0.00	0.00	0.00
104.00	0.40	46.00	104.00	-0.20	0.20	0.21	0.48
168.00	0.30	141.90	168.00	-0.23	0.23	0.48	0.82
226.00	0.30	81.60	226.00	-0.13	0.13	0.72	0.52
283.00	0.40	25.00	283.00	-0.33	0.33	0.95	0.60
340.00	1.10	37.70	339.99	-0.94	0.95	1.37	1.25
404.00	1.70	24.30	403.97	-2.29	2.30	2.14	1.06
468.00	2.70	36.20	467.92	-4.38	4.38	3.42	1.71
532.00	2.90	45.00	531.85	-6.73	6.74	5.45	0.74
596.00	4.00	41.10	595.73	-9.56	9.57	8.06	1.76
660.00	4.90	50.90	659.54	-12.96	12.97	11.65	1.84
724.00	6.00	48.10	723.25	-16.92	16.93	16.26	1.77
788.00	6.90	46.30	786.84	-21.80	21.82	21.53	1.44
851.00	7.50	41.70	849.35	-27.48	27.50	27.00	1.32
915.00	8.40	39.40	912.73	-34.21	34.24	32.75	1.49
979.00	9.80	35.60	975.92	-42.24	42.28	38.89	2.38
1041.00	11.10	34.00	1036.90	-51.48	51.52	45.30	2.15
1106.00	11.90	32.80	1100.59	-62.29	62.34	52.43	1.28
1167.00	12.70	30.60	1160.19	-73.34	73.39	59.25	1.52

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
1287.00	14.78	32.59	1276.75	-97.58	97.65	74.21	1.78
1382.00	16.67	34.67	1368.19	-118.99	119.07	88.48	2.07
1476.00	16.22	36.08	1458.35	-140.67	140.76	103.88	0.64
1571.00	16.11	36.53	1549.59	-161.97	162.08	119.54	0.18
1665.00	15.64	29.59	1640.01	-183.46	183.58	133.56	2.08
1760.00	14.45	27.64	1731.76	-205.09	205.21	145.39	1.37
1854.00	15.96	31.63	1822.47	-226.47	226.61	157.61	1.96
1949.00	14.98	29.01	1914.03	-248.31	248.46	170.41	1.27
2043.00	15.69	29.22	2004.68	-270.02	270.18	182.50	0.76
2137.00	16.11	29.01	2095.08	-292.50	292.67	195.03	0.45
2231.00	15.94	26.24	2185.43	-315.48	315.66	207.06	0.83
2326.00	15.27	34.13	2276.94	-337.53	337.72	219.85	2.34
2420.00	13.97	34.10	2367.89	-357.16	357.36	233.16	1.38
2515.00	14.51	30.48	2459.98	-376.90	377.11	245.62	1.10
2610.00	14.44	33.00	2551.96	-397.08	397.31	258.12	0.67
2704.00	15.29	31.92	2642.81	-417.42	417.66	271.06	0.95
2799.00	15.69	28.97	2734.36	-439.28	439.53	283.90	0.93
2893.00	15.95	34.03	2824.81	-461.09	461.35	297.29	1.49
2987.00	16.02	33.50	2915.17	-482.60	482.87	311.67	0.17
3082.00	15.27	37.91	3006.66	-503.38	503.67	326.60	1.48

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
3176.00	15.44	29.97	3097.31	-523.98	524.28	340.45	2.24
3271.00	15.44	32.73	3188.88	-545.56	545.87	353.61	0.77
3365.00	15.43	27.45	3279.50	-567.18	567.50	366.14	1.49
3460.00	15.42	24.02	3371.08	-589.93	590.26	377.11	0.96
3554.00	15.48	26.44	3461.68	-612.57	612.91	387.78	0.69
3649.00	15.67	29.36	3553.19	-635.09	635.44	399.72	0.85
3743.00	15.33	31.22	3643.77	-656.77	657.13	412.38	0.64
3838.00	16.38	33.46	3735.16	-678.67	679.04	426.28	1.28
3932.00	17.32	36.86	3825.12	-700.92	701.30	441.99	1.45
4026.00	17.38	29.37	3914.86	-724.34	724.74	457.27	2.38
4121.00	17.50	28.06	4005.49	-749.30	749.71	470.95	0.43
4215.00	17.17	27.81	4095.22	-774.04	774.46	484.07	0.36
4310.00	15.45	30.10	4186.39	-797.38	797.81	496.96	1.94
4404.00	16.65	30.41	4276.73	-819.81	820.26	510.06	1.28
4499.00	14.42	29.69	4368.25	-841.82	842.27	522.81	2.36
4593.00	14.95	30.53	4459.18	-862.42	862.89	534.76	0.61
4687.00	14.33	31.59	4550.13	-882.76	883.24	547.02	0.72
4782.00	13.71	31.21	4642.30	-902.40	902.88	559.01	0.66
4876.00	12.38	29.44	4733.87	-920.69	921.19	569.74	1.47
4971.00	11.42	28.35	4826.82	-937.84	938.34	579.21	1.04

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
5065.00	10.88	25.23	4919.05	-954.05	954.56	587.42	0.86
5160.00	10.82	29.93	5012.35	-969.88	970.40	595.69	0.93
5254.00	10.74	28.47	5104.69	-985.22	985.75	604.27	0.30
5349.00	7.73	32.02	5198.45	-998.42	998.95	611.88	3.23
5443.00	6.40	29.36	5291.74	-1008.34	1008.88	617.80	1.46
5538.00	4.97	28.48	5386.27	-1016.57	1017.11	622.36	1.51
5633.00	3.75	45.27	5480.99	-1022.36	1022.91	626.53	1.85
5727.00	3.40	67.84	5574.82	-1025.57	1026.12	631.29	1.53
5822.00	1.82	108.81	5669.72	-1026.15	1026.70	635.33	2.48
5916.00	1.66	72.08	5763.68	-1026.08	1026.64	638.03	1.18
6011.00	2.10	52.26	5858.63	-1027.57	1028.13	640.71	0.82
6106.00	2.07	54.79	5953.57	-1029.62	1030.18	643.49	0.10
6200.00	0.48	48.33	6047.54	-1030.86	1031.42	645.17	1.70
6295.00	0.57	54.56	6142.54	-1031.39	1031.96	645.86	0.12
6389.00	0.47	232.84	6236.54	-1031.43	1031.99	645.93	1.11
6483.00	0.63	44.39	6330.53	-1031.57	1032.13	645.98	1.17
6578.00	1.41	67.11	6425.52	-1032.39	1032.96	647.42	0.90
6672.00	5.37	154.30	6519.37	-1028.87	1029.44	650.39	5.83
6767.00	9.54	165.96	6613.55	-1017.22	1017.79	654.23	4.65
6861.00	17.97	172.03	6704.78	-995.26	995.83	658.14	9.09

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
6956.00	25.35	181.65	6793.03	-960.35	960.93	659.59	8.59
7051.00	31.51	177.80	6876.54	-915.16	915.74	659.95	6.77
7145.00	43.69	176.58	6950.87	-857.99	858.56	662.85	12.98
7239.00	55.56	179.81	7011.66	-786.55	787.13	664.93	12.89
7334.00	63.61	183.62	7059.74	-704.75	705.33	662.36	9.15
7428.00	70.38	185.64	7096.45	-618.58	619.15	655.34	7.48
7523.00	76.85	186.24	7123.23	-527.98	528.55	645.91	6.84
7617.00	82.64	182.87	7139.96	-435.83	436.39	638.58	7.09
7712.00	87.85	181.06	7147.84	-341.26	341.81	635.34	5.81
7807.00	90.88	180.28	7148.89	-246.28	246.83	634.23	3.29
7901.00	93.09	180.94	7145.64	-152.35	152.90	633.23	2.46
7996.00	90.61	179.87	7142.57	-57.41	57.96	632.56	2.85
8090.00	89.03	179.45	7142.87	36.58	-36.03	633.12	1.74
8184.00	90.07	180.31	7143.62	130.58	-130.03	633.32	1.44
8279.00	90.13	179.08	7143.45	225.58	-225.02	633.83	1.30
8373.00	90.07	178.49	7143.28	319.56	-319.00	635.83	0.63
8468.00	90.07	179.65	7143.17	414.54	-413.99	637.37	1.22
8562.00	88.99	179.09	7143.94	508.53	-507.98	638.41	1.29
8657.00	89.83	180.62	7144.92	603.52	-602.97	638.65	1.84
8751.00	90.61	180.89	7144.56	697.51	-696.96	637.41	0.87

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
8846.00	89.33	180.78	7144.62	792.50	-791.95	636.02	1.35
8940.00	89.16	180.39	7145.86	886.49	-885.93	635.06	0.45
9035.00	89.43	179.65	7147.03	981.48	-980.92	635.02	0.83
9130.00	89.97	179.14	7147.53	1076.47	-1075.92	636.03	0.78
9224.00	88.96	178.87	7148.41	1170.45	-1169.90	637.67	1.11
9319.00	90.27	179.52	7149.05	1265.44	-1264.88	639.00	1.54
9413.00	90.30	179.15	7148.58	1359.43	-1358.88	640.08	0.39
9508.00	91.31	179.15	7147.24	1454.41	-1453.85	641.49	1.06
9602.00	89.09	178.14	7146.91	1548.38	-1547.82	643.71	2.59
9697.00	89.80	179.37	7147.83	1643.35	-1642.79	645.77	1.49
9791.00	89.53	178.35	7148.39	1737.33	-1736.77	647.65	1.12
9886.00	87.24	180.00	7151.06	1832.28	-1831.71	649.01	2.97
9980.00	90.94	181.43	7152.55	1926.24	-1925.67	647.84	4.22
10075.00	89.97	181.47	7151.80	2021.20	-2020.64	645.43	1.03
10169.00	90.77	180.55	7151.19	2115.18	-2114.62	643.78	1.30
10264.00	88.93	180.40	7151.44	2210.17	-2209.61	642.99	1.95
10358.00	89.97	180.20	7152.35	2304.17	-2303.61	642.50	1.13
10453.00	90.91	180.36	7151.62	2399.16	-2398.60	642.03	1.01
10547.00	89.70	180.55	7151.13	2493.15	-2492.60	641.28	1.30
10642.00	89.16	179.89	7152.07	2588.15	-2587.59	640.92	0.90

MD ft	Inc deg	Azim deg	TVD ft	VS ft	+N/-S ft	+E/-W ft	DLS °/100ft
10736.00	88.62	179.21	7153.89	2682.13	-2681.57	641.66	0.92
10830.00	90.30	180.34	7154.77	2776.12	-2775.56	642.03	2.15
10925.00	90.84	180.46	7153.83	2871.11	-2870.55	641.37	0.58
11019.00	89.30	179.62	7153.72	2965.11	-2964.55	641.31	1.87
11114.00	88.72	178.93	7155.36	3060.08	-3059.52	642.52	0.94
11208.00	89.16	180.09	7157.09	3154.06	-3153.50	643.33	1.32
11303.00	90.74	181.36	7157.18	3249.05	-3248.49	642.12	2.13
11397.00	91.21	180.56	7155.58	3343.02	-3342.46	640.55	0.99
11492.00	88.39	179.60	7155.91	3438.01	-3437.45	640.41	3.14
11586.00	88.39	179.71	7158.56	3531.97	-3531.41	640.98	0.11
11681.00	88.72	179.03	7160.95	3626.93	-3626.38	642.02	0.79
11775.00	89.03	178.38	7162.80	3720.89	-3720.33	644.14	0.76
11870.00	89.30	178.16	7164.19	3815.84	-3815.28	647.01	0.37
11964.00	89.40	177.17	7165.26	3909.76	-3909.19	650.84	1.06
12059.00	89.93	177.11	7165.82	4004.64	-4004.07	655.59	0.57
12153.00	91.38	178.13	7164.74	4098.56	-4097.98	659.49	1.88
12248.00	90.80	178.87	7162.93	4193.51	-4192.93	661.98	0.99
12342.00	89.87	180.66	7162.38	4287.50	-4286.92	662.36	2.15
12437.00	90.77	180.44	7161.86	4382.49	-4381.92	661.45	0.98
12531.00	89.36	179.73	7161.75	4476.49	-4475.91	661.31	1.68

5" = 100' FEET MD