

Recorded Mode, Composite

Country: The Netherlands

Company: Trias Westland B.V.

Well: NLW-GT-02-S1

Field: Naaldwijk

Rig Name: KCA Deutag T-207

Country: The Netherlands

Latitude: 51° 59' 26.962" N

UWID:

17HOL0035

Longitude: 4° 14' 22.357" E

Rig Name:

KCA Deutag T-207

Rig Type:

Land Rig

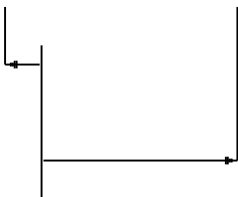
FL: NLW-GT-02-S1

FL1: Section: 17 1/2 in.

FL2: Job no.: 17HOL0035

Log Measured From: - Drill Floor: 8.42 m

Reference Datum - Mean Sea Level/Permanent Datum: - NAP
Ground Level: 0.90 m



Acquisition Dates: 06-Apr-2018 -- 17-Apr-2018

Other Services:

Log Interval: 1064.25(m)TVD -- 2305.31(m) TVD

Direction & Inclination (Surveys)

Index Types: True Vertical Depth

Directional Drilling

Index Scales: 1:200, 1:1000

Depth Source: Driller's Depth

Depth Sensor: 3rd Party Depth

Print Type: Final

Spud Date: 08-Mar-2018

Disclaimer

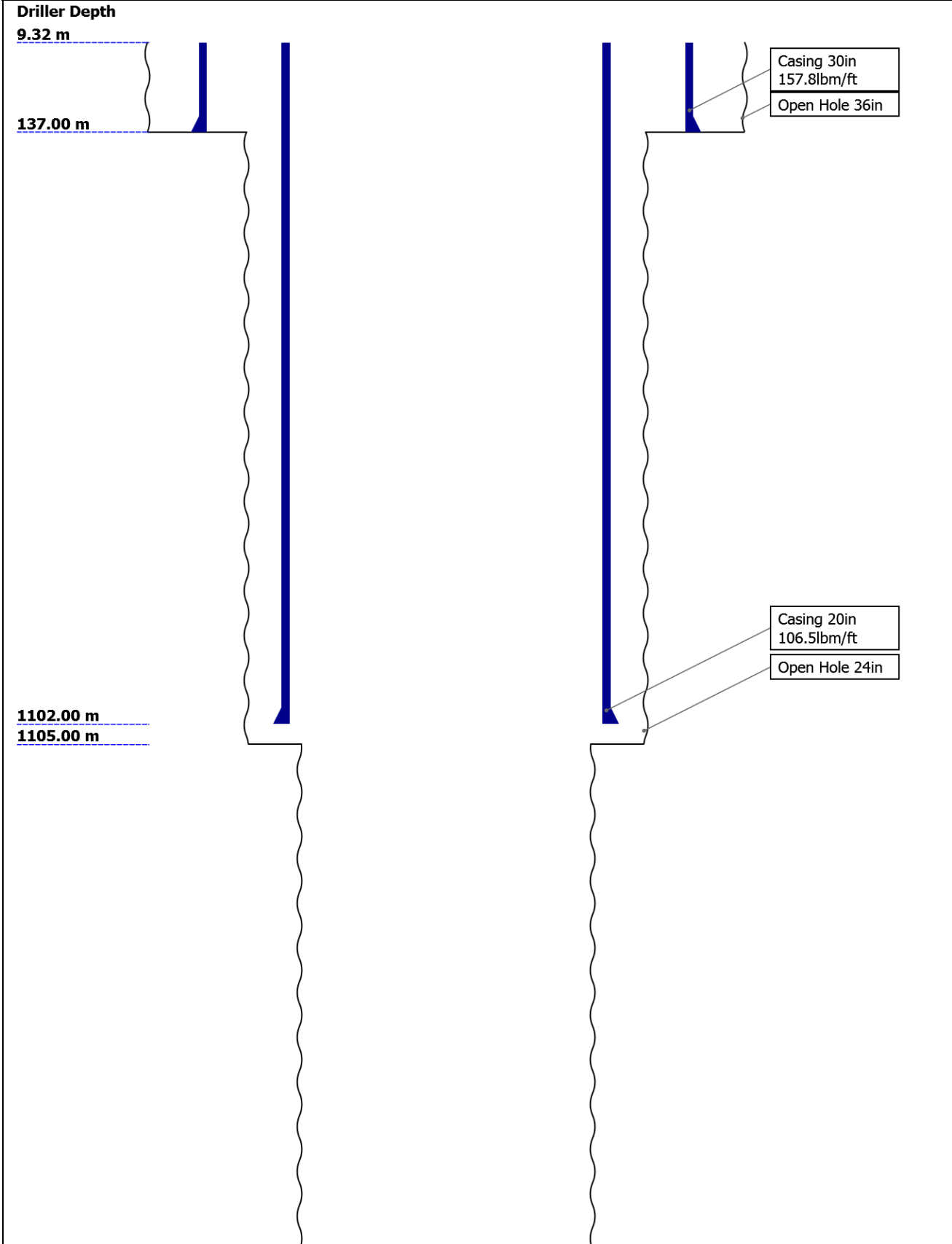
THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

Contents

1. Header
2. Disclaimer
3. Contents
4. Well Sketch
5. Borehole Size/Casing/Tubing Record
6. Operational Run Summary
7. Borehole Fluids
8. Remarks and Equipment Summary
9. Survey Record
10. 17.5 in. Section Composite MWD - Gamma Ray 1:200
TVD
 - 10.1 Integration Summary
 - 10.2 Software Version
 - 10.3 Composite Summary
 - 10.4 Log (GR MWD and PD no ticks)
11. 17.5 in. Section Composite MWD - Gamma Ray
1:1000 TVD

- 11.1 Integration Summary
- 11.2 Composite Summary
- 11.3 Log (GR MWD and PD no ticks)
- 11.4 Parameter Listing
- 12. Calibration Report
- 13. Tail

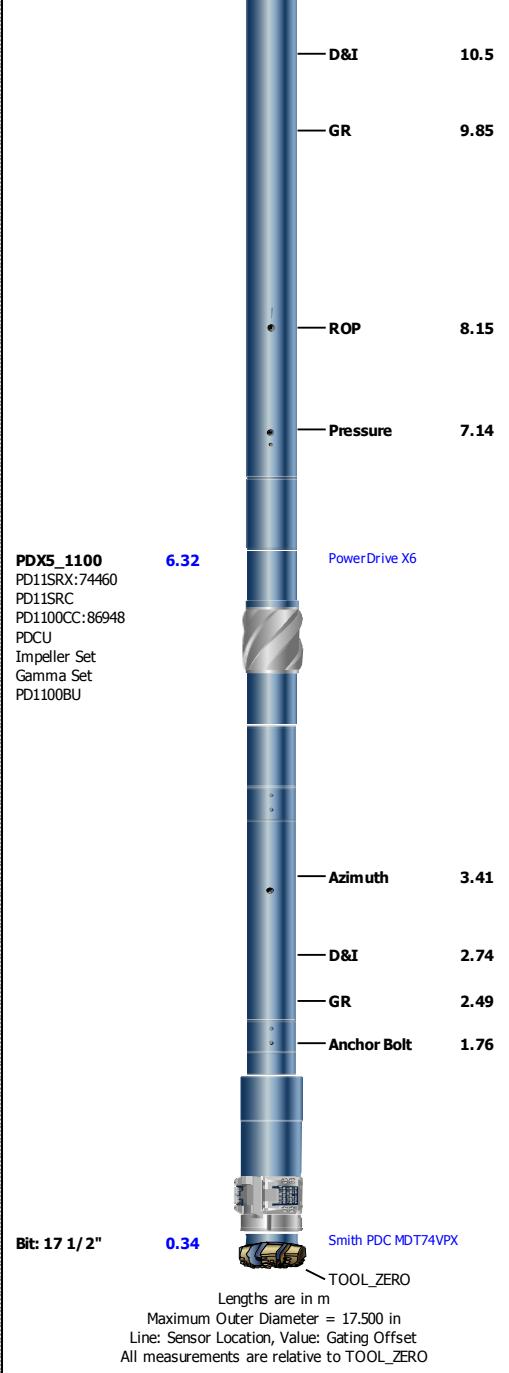
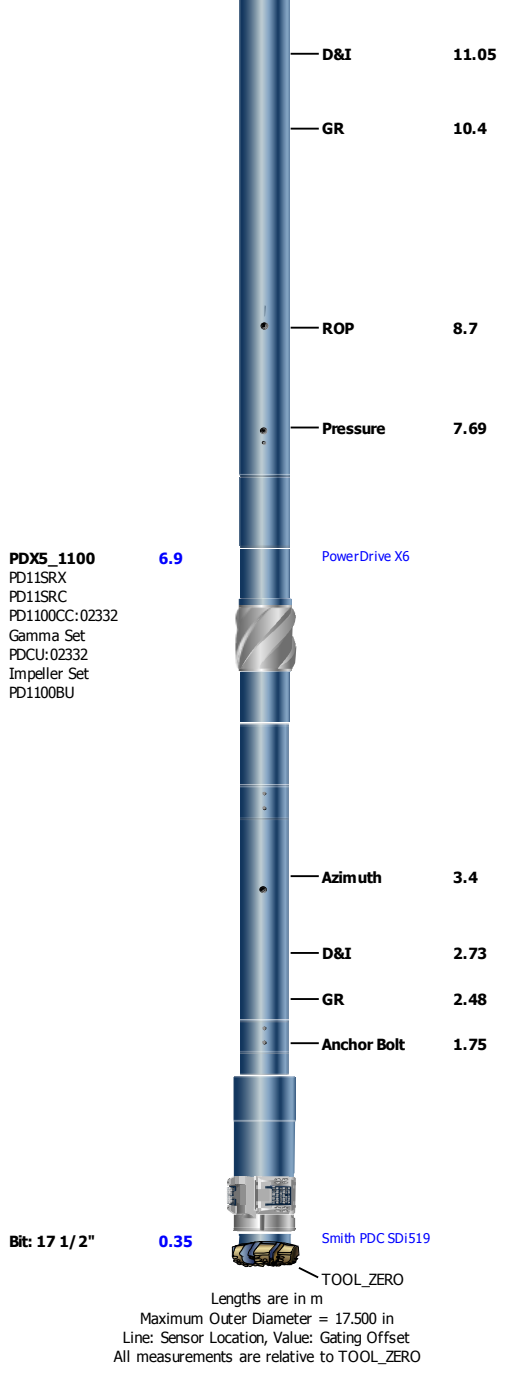
Well Sketch



Remarks and Equipment Summary

Run 4: Toolstring

Equip name	Length	MP name	Offset
TELE900:E6072	15.37	TeleScope	
Upper Extender			
MDC900:E6072			
MMA:4042			
MDI:2141			
PMGR:223			
PMEA:3830			
MTA:2309			
MTK900:2311			
APWD:0124			
MSSD900:68888A			
Lower Extender:BA2			
3-11-12			



Survey Record

Survey Calculation			
Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	Grid North	Total Correction Formula :	Magnetic Dec - Grid Convergence
Grid Convergence :	-0.91 deg		

Rig Location			
Latitude :	51° 59' 26.962" N	Longitude :	4° 14' 22.357" E

Tie In Point					
Measured Depth:	0.00 m	Inclination:	0.00 deg	Azimuth:	0.00 deg
True Vertical Depth:	0.00 m	North Displacement:	0.00 m	East Displacement:	0.00 m
N/-S VSec Origin:	0.00 m	E/-W VSec Origin:	0.00 m	Vertical Section Azimuth:	107.44 deg

D&I Inits Computed and Values Used - Run 1			
Geomagnetic Model :	HDGM 2017	Geomagnetic Date :	04-Feb-2018
Computed Location B :	49041.00 nT +/- 300.00nT	Used Location B :	49039.64 nT +/- 300.00nT
Computed Location G :	1000.60 mgn +/- 2.50mgn	Used Location G :	1000.58 mgn +/- 2.50mgn
Computed Magnetic Dip :	67.07 deg +/- 0.45deg	Used Magnetic Dip :	67.07 deg +/- 0.45deg
Computed Magnetic Dec :	1.10 deg	Used Magnetic Dec :	1.10 deg
Computed Total Correction :	2.01 deg	Used Total Correction :	2.01 deg

D&I Inits Computed and Values Used - Run 4			
--	--	--	--

Geomagnetic Model :				HDGM 2017				Geomagnetic Date :				04-Feb-2018			
Computed Location B :				49041.00 nT +/- 300.00nT				Used Location B :				49039.64 nT +/- 300.00nT			
Computed Location G :				1000.60 mgn +/- 2.50mgn				Used Location G :				1000.58 mgn +/- 2.50mgn			
Computed Magnetic Dip :				67.07 deg +/- 0.45deg				Used Magnetic Dip :				67.07 deg +/- 0.45deg			
Computed Magnetic Dec :				1.10 deg				Used Magnetic Dec :				1.10 deg			
Computed Total Correction :				2.01 deg				Used Total Correction :				2.01 deg			
D&I Inits Computed and Values Used - Run 5															
Geomagnetic Model :				BGGM 2017				Geomagnetic Date :				13-Apr-2018			
Computed Location B :				49031.82 nT +/- 300.00nT				Used Location B :				49039.64 nT +/- 300.00nT			
Computed Location G :				1000.60 mgn +/- 2.50mgn				Used Location G :				1000.58 mgn +/- 2.50mgn			
Computed Magnetic Dip :				67.07 deg +/- 0.45deg				Used Magnetic Dip :				67.07 deg +/- 0.45deg			
Computed Magnetic Dec :				1.07 deg				Used Magnetic Dec :				1.10 deg			
Computed Total Correction :				1.98 deg				Used Total Correction :				2.01 deg			
Survey Quality Index															
0 : Long Survey passed all criteria				2 : Long Survey failed mag criteria				9 : Manual							
28 : Tie-In Point															
Survey Correction Index															
0 : No correction															
Survey Description Index															
0 : Not Flagged Survey				1 : DMAG Corrected Survey				7 : Projection to Bit							
13 : Inclination Only Survey															
Seq	MD (m)	Incl (deg)	Azim (deg)	Course (m)	TVD (m)	V Sec (m)	N/ -S (m)	E/ -W (m)	Closure (m)	at Azim (deg)	DLS deg/30m	Tool Type	QI	CI	DI
1	0.00	0.00	0.00	- - - -	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP	28	0	0
2	9.32	0.00	0.00	9.32	9.32	0.00	0.00	0.00	0.00	90.00	0.00	Other	9	0	13
3	9.32	0.00	0.00	0.00	9.32	0.00	0.00	0.00	0.00	90.00	0.00	TeleScope	9	0	0
4	143.59	2.13	43.05	134.27	143.56	1.08	1.82	1.70	2.49	43.05	0.48	TeleScope	2	0	13
5	143.59	2.13	43.05	0.00	143.56	1.08	1.82	1.70	2.50	43.05	0.48	TeleScope	9	0	0
6	171.48	2.43	60.83	27.89	171.43	1.71	2.49	2.57	3.58	45.94	0.82	TeleScope	9	0	0
7	171.48	2.43	60.83	0.00	171.43	1.71	2.49	2.57	3.58	45.94	0.82	TeleScope	9	0	1
8	200.72	4.05	79.42	29.24	200.62	3.04	2.98	4.13	5.09	54.17	1.96	TeleScope	9	0	1
9	200.72	4.05	79.42	0.00	200.62	3.05	2.98	4.13	5.09	54.17	1.96	TeleScope	9	0	0
10	228.81	5.71	88.57	28.09	228.61	5.24	3.20	6.50	7.25	63.80	1.95	TeleScope	9	0	0
11	228.81	5.71	88.57	0.00	228.61	5.24	3.20	6.50	7.24	63.81	1.95	TeleScope	9	0	1
12	256.86	7.22	88.59	28.05	256.48	8.23	3.28	9.66	10.20	71.26	1.61	TeleScope	9	0	0
13	256.86	7.22	88.59	0.00	256.48	8.23	3.27	9.66	10.20	71.27	1.61	TeleScope	2	0	13
14	284.90	6.54	86.73	28.04	284.32	11.39	3.41	13.01	13.45	75.32	0.76	TeleScope	2	0	13
15	284.90	6.54	86.73	0.00	284.32	11.39	3.41	13.02	13.46	75.31	0.77	TeleScope	9	0	0
16	312.51	7.69	90.35	27.61	311.71	14.63	3.49	16.43	16.80	78.01	1.34	TeleScope	9	0	0
17	312.51	7.69	90.35	0.00	311.71	14.63	3.49	16.43	16.79	78.01	1.34	TeleScope	0	0	13
18	340.21	8.35	88.51	27.70	339.14	18.30	3.53	20.29	20.60	80.14	0.77	TeleScope	2	0	13
19	340.21	8.35	88.51	0.00	339.14	18.31	3.53	20.30	20.60	80.13	0.77	TeleScope	9	0	0
20	368.61	9.23	88.49	28.40	367.21	22.41	3.64	24.63	24.90	81.59	0.92	TeleScope	9	0	1
21	368.61	9.23	88.49	0.00	367.21	22.41	3.64	24.63	24.90	81.58	0.93	TeleScope	9	0	0
22	396.44	10.38	94.74	27.83	394.63	26.97	3.50	29.36	29.57	83.21	1.69	TeleScope	9	0	0
23	396.44	10.38	94.74	0.00	394.63	26.96	3.49	29.36	29.57	83.22	1.69	TeleScope	9	0	1
24	424.21	12.96	99.87	27.77	421.83	32.50	2.76	34.93	35.04	85.49	3.00	TeleScope	9	0	0
25	424.21	12.96	99.87	0.00	421.83	32.49	2.75	34.92	35.03	85.49	3.00	TeleScope	9	0	1
26	451.76	12.67	105.98	27.55	448.69	38.58	1.39	40.88	40.90	88.05	1.51	TeleScope	9	0	0
27	451.76	12.67	105.98	0.00	448.69	38.58	1.39	40.87	40.90	88.05	1.51	TeleScope	9	0	1
28	480.28	11.94	107.66	28.52	476.56	44.65	-0.37	46.69	46.69	90.45	0.86	TeleScope	9	0	1
29	480.28	11.94	107.66	0.00	476.56	44.66	-0.36	46.69	46.70	90.44	0.86	TeleScope	9	0	0
30	508.01	13.16	109.74	27.73	503.62	50.68	-2.30	52.39	52.45	92.52	1.41	TeleScope	9	0	1

31	508.01	13.16	109.74	0.00	503.62	50.68	-2.30	52.40	52.45	92.51	1.41	TeleScope	9	0	0
32	536.29	14.17	112.19	28.28	531.10	57.34	-4.69	58.63	58.82	94.58	1.23	TeleScope	9	0	0
33	536.29	14.17	112.19	0.00	531.10	57.34	-4.70	58.63	58.82	94.58	1.23	TeleScope	9	0	1
34	564.31	13.91	113.38	28.02	558.29	64.11	-7.32	64.90	65.31	96.44	0.42	TeleScope	9	0	0
35	564.31	13.91	113.38	0.00	558.29	64.11	-7.33	64.90	65.31	96.44	0.42	TeleScope	9	0	1
36	592.18	13.35	112.05	27.87	585.37	70.65	-9.86	70.96	71.64	97.91	0.69	TeleScope	9	0	0
37	592.18	13.35	112.05	0.00	585.37	70.65	-9.87	70.95	71.64	97.92	0.69	TeleScope	9	0	1
38	620.05	13.22	112.05	27.87	612.50	77.03	-12.27	76.89	77.86	99.07	0.14	TeleScope	9	0	1
39	620.05	13.22	112.05	0.00	612.50	77.04	-12.27	76.89	77.87	99.06	0.14	TeleScope	9	0	0
40	647.70	13.00	112.85	27.65	639.43	83.28	-14.66	82.69	83.98	100.06	0.31	TeleScope	9	0	1
41	647.70	13.00	112.85	0.00	639.42	83.28	-14.66	82.69	83.98	100.05	0.31	TeleScope	9	0	0
42	675.87	12.87	114.06	28.17	666.88	89.55	-17.17	88.47	90.12	100.99	0.32	TeleScope	9	0	1
43	675.87	12.87	114.06	0.00	666.88	89.55	-17.17	88.47	90.13	100.98	0.32	TeleScope	9	0	0
44	703.90	12.21	116.00	28.03	694.24	95.59	-19.74	93.99	96.04	101.86	0.84	TeleScope	9	0	0
45	703.90	12.21	116.00	0.00	694.24	95.58	-19.75	93.99	96.04	101.86	0.84	TeleScope	9	0	1
46	731.75	12.74	114.18	27.85	721.43	101.55	-22.29	99.43	101.90	102.64	0.71	TeleScope	9	0	1
47	731.75	12.74	114.18	0.00	721.43	101.55	-22.29	99.44	101.91	102.64	0.71	TeleScope	9	0	0
48	759.59	13.16	114.62	27.84	748.57	107.74	-24.87	105.12	108.02	103.31	0.46	TeleScope	9	0	1
49	759.59	13.16	114.62	0.00	748.57	107.74	-24.87	105.12	108.02	103.31	0.46	TeleScope	9	0	0
50	787.98	12.93	114.75	28.39	776.22	114.10	-27.54	110.94	114.31	103.94	0.25	TeleScope	9	0	0
51	787.98	12.93	114.75	0.00	776.22	114.09	-27.55	110.94	114.31	103.95	0.25	TeleScope	9	0	1
52	815.95	11.86	114.15	27.97	803.54	120.06	-30.03	116.41	120.22	104.47	1.16	TeleScope	9	0	0
53	815.95	11.86	114.15	0.00	803.54	120.05	-30.03	116.40	120.22	104.47	1.16	TeleScope	9	0	1
54	843.88	11.35	114.64	27.93	830.90	125.63	-32.35	121.52	125.76	104.91	0.56	TeleScope	9	0	0
55	843.88	11.35	114.64	0.00	830.90	125.63	-32.35	121.52	125.75	104.91	0.56	TeleScope	9	0	1
56	871.83	11.35	114.42	27.95	858.30	131.09	-34.63	126.53	131.18	105.31	0.05	TeleScope	9	0	0
57	871.83	11.35	114.42	0.00	858.30	131.09	-34.64	126.52	131.18	105.31	0.05	TeleScope	9	0	1
58	899.31	11.26	114.67	27.48	885.25	136.44	-36.87	131.43	136.50	105.67	0.11	TeleScope	9	0	0
59	899.31	11.26	114.67	0.00	885.25	136.43	-36.88	131.42	136.50	105.67	0.11	TeleScope	9	0	1
60	927.06	11.07	115.71	27.75	912.47	141.76	-39.16	136.29	141.80	106.03	0.30	TeleScope	9	0	0
61	927.06	11.07	115.71	0.00	912.47	141.76	-39.16	136.29	141.80	106.03	0.30	TeleScope	9	0	1
62	955.25	10.73	115.25	28.19	940.16	147.04	-41.46	141.10	147.06	106.37	0.37	TeleScope	9	0	1
63	955.25	10.73	115.25	0.00	940.16	147.04	-41.45	141.10	147.07	106.37	0.37	TeleScope	9	0	0
64	983.37	10.05	119.06	28.12	967.82	152.04	-43.76	145.61	152.05	106.73	1.03	TeleScope	9	0	0
65	983.37	10.05	119.06	0.00	967.82	152.03	-43.76	145.61	152.05	106.73	1.03	TeleScope	9	0	1
66	1011.38	9.28	117.91	28.01	995.43	156.65	-46.01	149.74	156.65	107.08	0.85	TeleScope	9	0	1
67	1011.38	9.28	117.91	0.00	995.43	156.65	-46.01	149.75	156.65	107.08	0.85	TeleScope	9	0	0
68	1038.94	8.90	120.58	27.56	1022.64	160.91	-48.13	153.54	160.91	107.41	0.62	TeleScope	9	0	1
69	1038.94	8.90	120.58	0.00	1022.64	160.91	-48.13	153.55	160.91	107.40	0.62	TeleScope	9	0	0
70	1067.19	8.20	121.84	28.25	1050.58	164.99	-50.30	157.14	164.99	107.75	0.77	TeleScope	9	0	0
71	1067.19	8.20	121.84	0.00	1050.58	164.99	-50.31	157.13	164.99	107.75	0.77	TeleScope	9	0	1
72	1087.46	8.01	119.22	20.27	1070.65	167.77	-51.76	159.60	167.78	107.97	0.61	TeleScope	9	0	1
73	1087.46	8.01	119.22	0.00	1070.64	167.77	-51.76	159.60	167.78	107.97	0.61	TeleScope	9	0	0
74	1105.00	7.86	117.59	17.54	1088.02	170.15	-52.91	161.73	170.16	108.12	0.46	TeleScope	9	0	7
75	1111.90	7.85	120.24	6.90	1094.85	171.07	-53.43	162.53	171.08	108.20	0.26	TeleScope	2	0	0
76	1139.92	7.52	120.73	28.02	1122.62	174.72	-55.33	165.76	174.75	108.46	0.36	TeleScope	0	0	0
77	1167.90	7.17	121.55	27.98	1150.37	178.19	-57.18	168.82	178.24	108.71	0.40	TeleScope	0	0	0
78	1195.69	6.81	122.09	27.79	1177.95	181.47	-58.96	171.69	181.53	108.95	0.39	TeleScope	0	0	0
79	1223.97	6.52	122.51	28.28	1206.04	184.64	-60.71	174.46	184.72	109.19	0.31	TeleScope	0	0	0
80	1251.62	6.39	121.55	27.65	1233.52	187.64	-62.36	177.10	187.75	109.40	0.18	TeleScope	0	0	0
81	1279.60	8.06	120.21	27.98	1261.27	191.07	-64.16	180.12	191.21	109.61	1.80	TeleScope	2	0	0
82	1287.16	11.15	117.12	27.92	1288.22	195.92	-66.22	181.16	195.92	109.82	0.22	TeleScope	2	0	0

82	1307.40	11.15	117.42	27.80	1288.68	195.62	-66.38	184.19	195.79	109.82	3.36	TeleScope	0	0	0
83	1336.11	13.30	117.14	28.71	1316.74	201.61	-69.17	189.59	201.82	110.04	2.26	TeleScope	0	0	0
84	1363.50	13.32	117.44	27.39	1343.39	207.82	-72.06	195.20	208.08	110.26	0.08	TeleScope	0	0	0
85	1391.19	12.90	117.05	27.69	1370.36	214.01	-74.94	200.78	214.31	110.47	0.47	TeleScope	0	0	0
86	1419.25	13.05	115.01	28.06	1397.70	220.24	-77.70	206.45	220.58	110.62	0.52	TeleScope	0	0	0
87	1447.01	12.97	110.28	27.76	1424.75	226.46	-80.11	212.21	226.83	110.68	1.16	TeleScope	0	0	0
88	1474.91	12.95	105.31	27.90	1451.94	232.72	-82.02	218.16	233.07	110.60	1.20	TeleScope	0	0	0
89	1503.47	13.10	101.61	28.56	1479.77	239.13	-83.51	224.42	239.46	110.41	0.89	TeleScope	0	0	0
90	1531.37	13.21	102.86	27.90	1506.94	245.46	-84.86	230.63	245.74	110.20	0.33	TeleScope	0	0	0
91	1559.39	13.28	104.61	28.02	1534.21	251.86	-86.38	236.86	252.12	110.04	0.44	TeleScope	0	0	0
92	1587.32	13.31	105.25	27.93	1561.39	258.28	-88.04	243.07	258.52	109.91	0.16	TeleScope	0	0	0
93	1615.16	12.95	107.24	27.84	1588.50	264.60	-89.81	249.14	264.83	109.82	0.62	TeleScope	0	0	0
94	1643.29	12.58	108.43	28.13	1615.94	270.82	-91.71	255.05	271.04	109.78	0.48	TeleScope	0	0	0
95	1671.20	12.65	107.90	27.91	1643.17	276.91	-93.61	260.85	277.14	109.74	0.15	TeleScope	0	0	0
96	1698.86	12.73	106.04	27.66	1670.16	282.99	-95.38	266.66	283.21	109.68	0.45	TeleScope	0	0	0
97	1726.79	12.69	104.12	27.93	1697.40	289.13	-96.98	272.59	289.33	109.58	0.46	TeleScope	0	0	0
98	1754.74	12.86	103.51	27.95	1724.66	295.29	-98.46	278.59	295.48	109.46	0.24	TeleScope	0	0	0
99	1782.10	12.95	103.08	27.36	1751.33	301.39	-99.86	284.54	301.55	109.34	0.15	TeleScope	0	0	0
100	1810.59	13.14	102.82	28.49	1779.09	307.80	-101.30	290.81	307.95	109.21	0.20	TeleScope	0	0	0
101	1838.33	13.43	102.20	27.74	1806.08	314.15	-102.68	297.03	314.28	109.07	0.35	TeleScope	0	0	0
102	1866.03	13.67	101.56	27.70	1833.01	320.61	-104.02	303.38	320.71	108.92	0.31	TeleScope	0	0	0
103	1893.92	14.38	102.20	27.89	1860.07	327.33	-105.41	309.99	327.42	108.78	0.79	TeleScope	0	0	0
104	1922.13	15.12	102.12	28.21	1887.35	334.49	-106.92	317.01	334.56	108.64	0.79	TeleScope	0	0	0
105	1950.02	16.08	102.76	27.89	1914.21	341.96	-108.54	324.34	342.02	108.50	1.05	TeleScope	0	0	0
106	1978.32	17.55	103.47	28.30	1941.30	350.12	-110.40	332.31	350.17	108.38	1.57	TeleScope	0	0	0
107	2006.20	18.68	102.74	27.88	1967.80	358.77	-112.36	340.75	358.80	108.25	1.25	TeleScope	0	0	0
108	2034.38	20.29	103.21	28.18	1994.37	368.14	-114.47	349.91	368.16	108.12	1.72	TeleScope	0	0	0
109	2062.02	21.66	103.09	27.64	2020.17	378.00	-116.73	359.55	378.02	107.99	1.48	TeleScope	0	0	0
110	2089.76	23.20	101.91	27.74	2045.82	388.54	-119.01	369.88	388.55	107.84	1.74	TeleScope	9	0	0
111	2117.60	25.10	101.08	27.84	2071.22	399.87	-121.28	381.04	399.88	107.66	2.08	TeleScope	0	0	0
112	2145.69	26.97	100.94	28.09	2096.46	412.12	-123.63	393.14	412.12	107.46	1.99	TeleScope	0	0	0
113	2173.22	28.89	99.89	27.53	2120.78	424.92	-125.96	405.82	424.92	107.24	2.16	TeleScope	0	0	0
114	2180.65	28.94	100.02	7.43	2127.28	428.48	-126.58	409.36	428.48	107.18	0.33	TeleScope	0	0	0
115	2208.98	27.98	101.72	28.33	2152.19	441.89	-129.12	422.62	441.90	106.99	1.33	TeleScope	0	0	0
116	2237.13	27.66	104.70	28.15	2177.09	454.98	-132.12	435.40	455.01	106.88	1.52	TeleScope	0	0	0
117	2265.10	27.95	105.63	27.97	2201.83	468.02	-135.54	447.99	468.05	106.83	0.56	TeleScope	0	0	0
118	2293.40	29.20	107.16	28.30	2226.68	481.55	-139.36	460.98	481.58	106.82	1.54	TeleScope	0	0	0
119	2321.69	30.90	107.82	28.29	2251.17	495.72	-143.62	474.49	495.75	106.84	1.83	TeleScope	0	0	0
120	2349.60	32.45	108.47	27.91	2274.92	510.37	-148.19	488.41	510.40	106.88	1.71	TeleScope	0	0	0
121	2373.38	33.86	108.96	23.78	2294.83	523.38	-152.36	500.73	523.40	106.92	1.81	TeleScope	0	0	0

17.5 in. Section Composite

MWD - Gamma Ray 1:200 TVD

Software Version															
Acquisition System									Version						
Maxwell 2018 SP1									8.1.99839.3100						
Tool Interface			System Version						Loaded Version						
HSPM			20.3c.062						8.1.99839.3100						
Tool Elements			Description						Software Version			Firmware Version			
DRILLING_SURFACE			DRILLING_SURFACE						8.1.99839.3100						
PMGR			TeleScope - M10 Gamma Ray Assembly						8.1.99839.3100			V14.0			

Composite Summary

Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run 4	Drilling	Down	1263.70 m	2185.64 m	06-Apr-2018 15:01:35	13-Apr-2018 09:39:39	Yes
Run 4	Ream Down 1	Down	1092.33 m	1264.01 m	07-Apr-2018 08:59:11	07-Apr-2018 16:00:37	Yes
Run 5	Ream Down 1	Down	2174.34 m	2185.64 m	14-Apr-2018 02:05:50	14-Apr-2018 02:39:27	Yes
Run 5	Drilling	Down	2185.37 m	2384.81 m	13-Apr-2018 10:30:25	17-Apr-2018 09:51:19	Yes

All depths are referenced to toolstring zero

Log

Company: Trias Westland B.V. Well: NLW-GT-02-S1

17.5 in. Section Composite:S108

Description: TeleScope Gamma Ray Depth RT Format: Log (GR MWD and PD no ticks) Index Scale: 1:200 Index Unit: m Index Type: TVD Creation Date: 19-Apr-2018 18:52:09

Rate of penetration averaged over the last 5 ft
(1.5 m) (ROP5) RT

100 m/h 0

Gamma Ray (MWD_GR_BHC) TeleScope[1] RM

0	gAPI	300
---	------	-----

tvd

1070

tvd

1075

tvd

1080

tvd

1085

tvd

1090

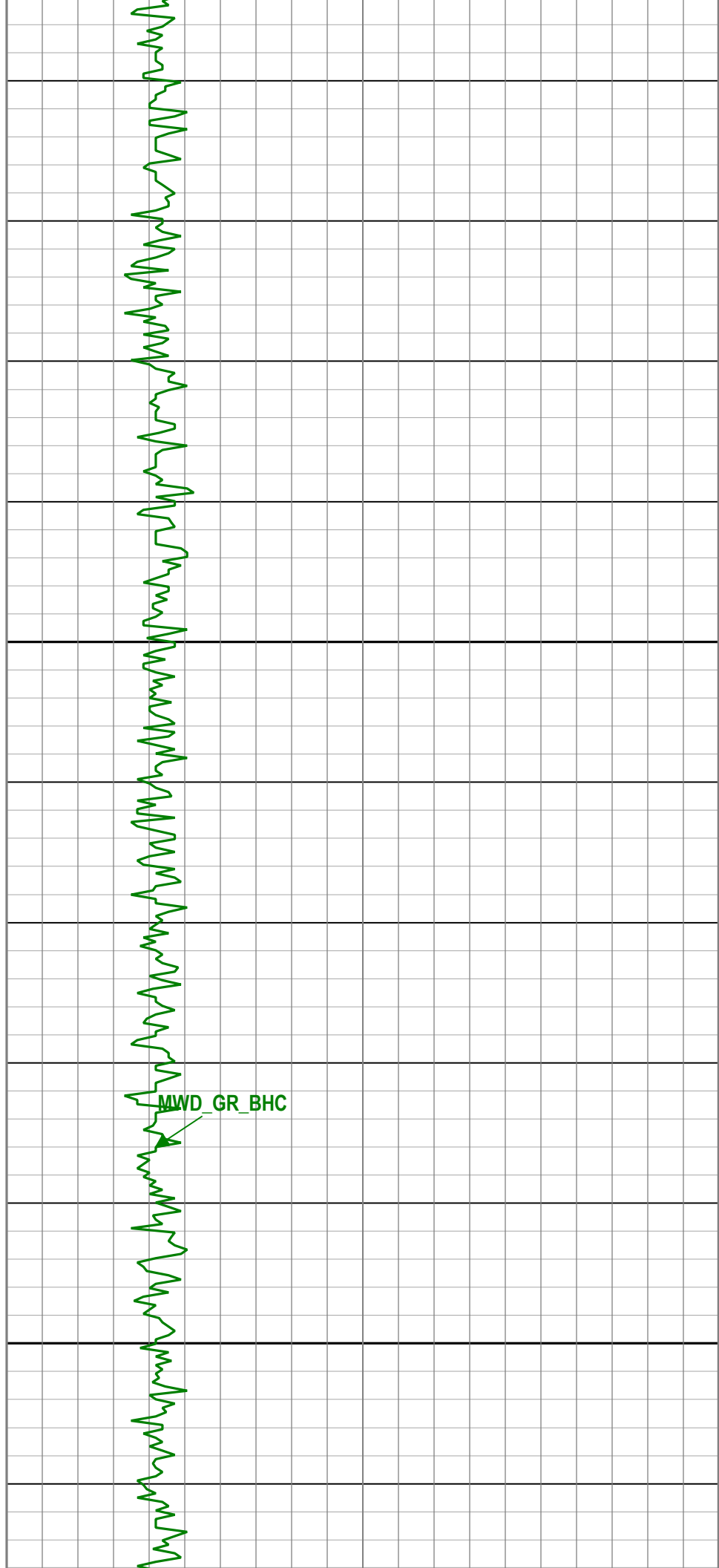
tvd

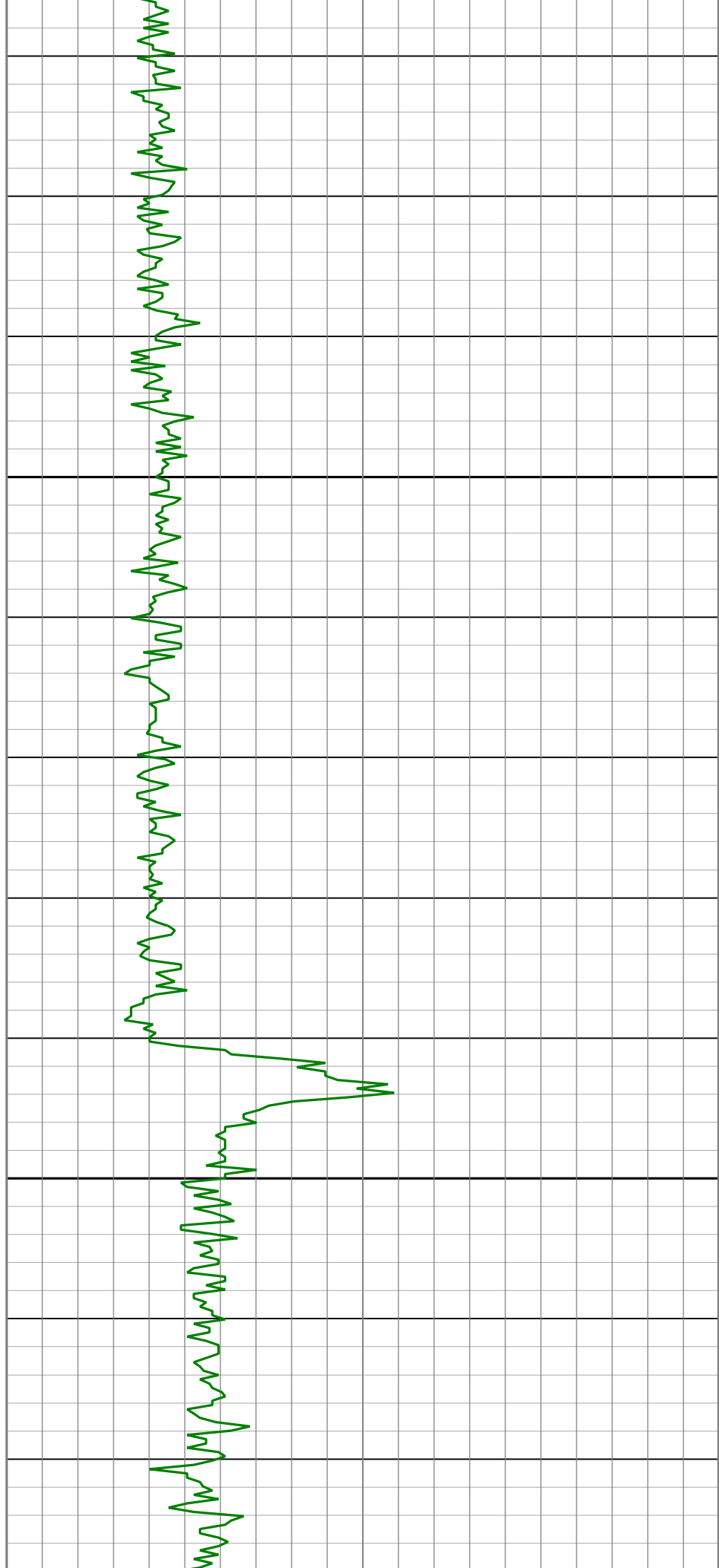
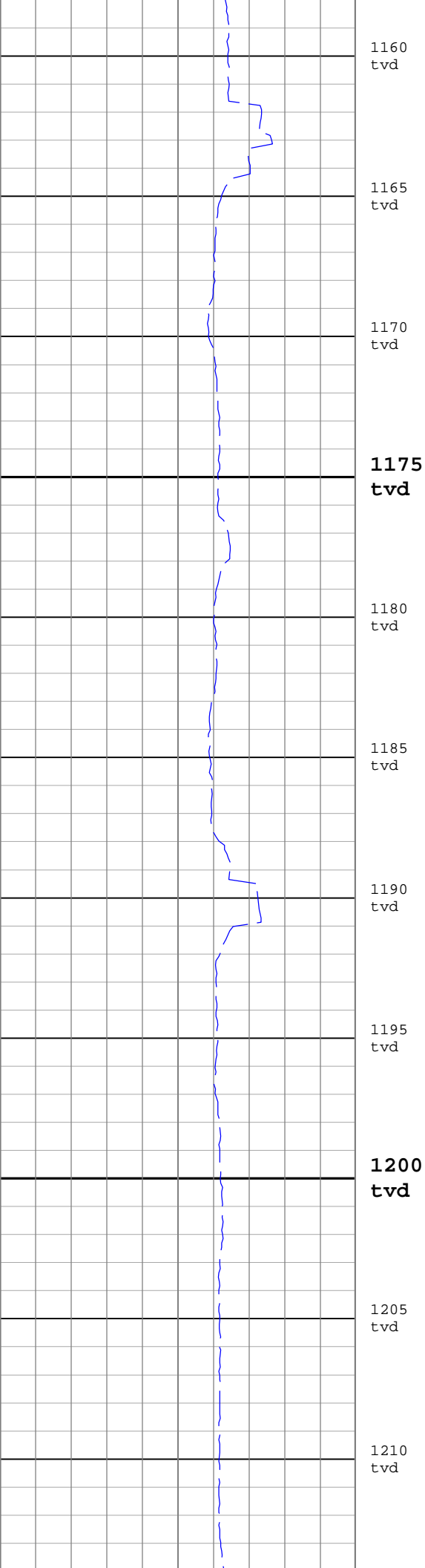
1095

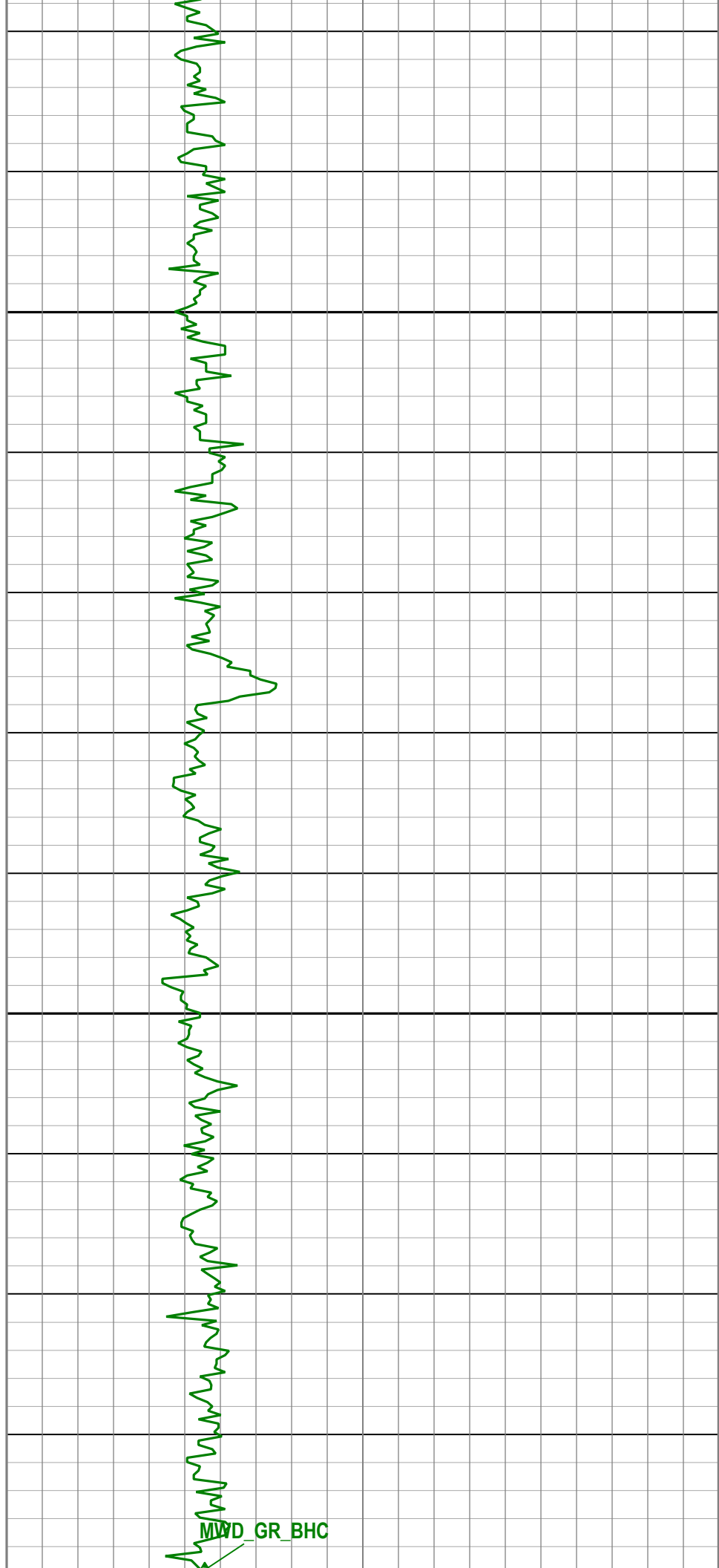
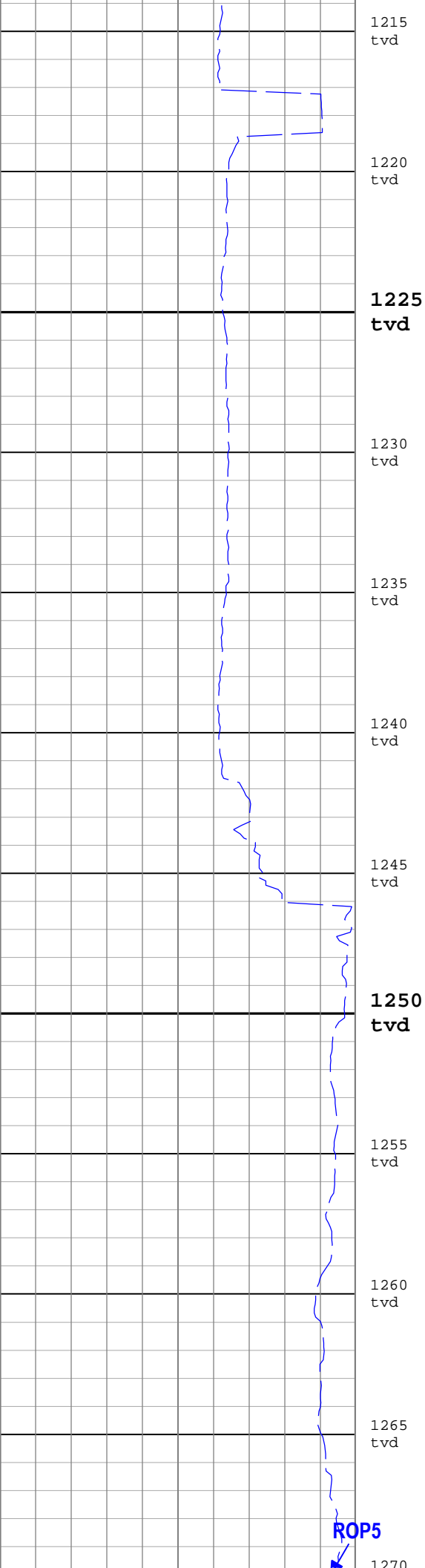
tvd

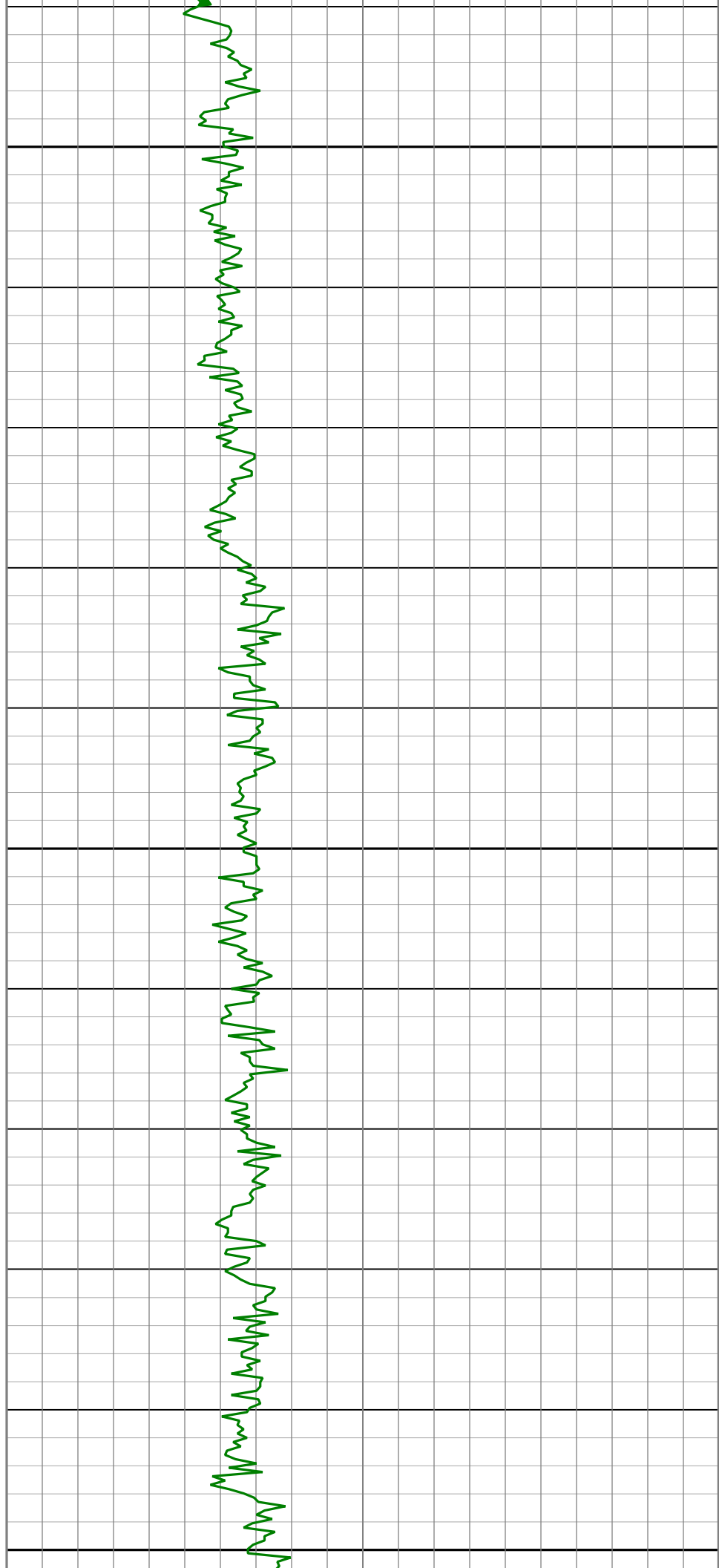
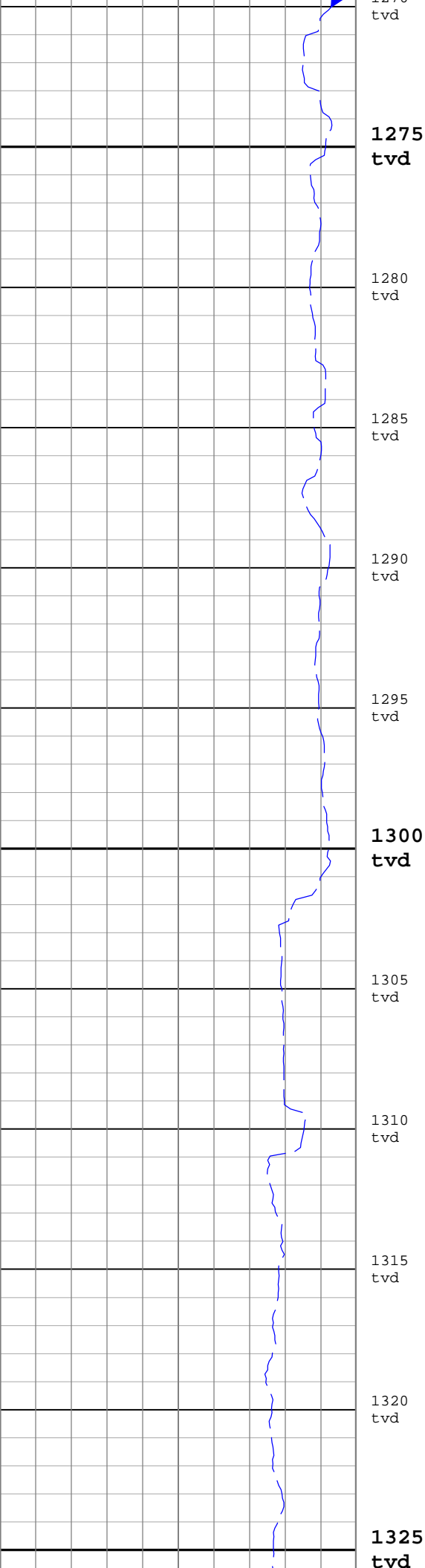
1100

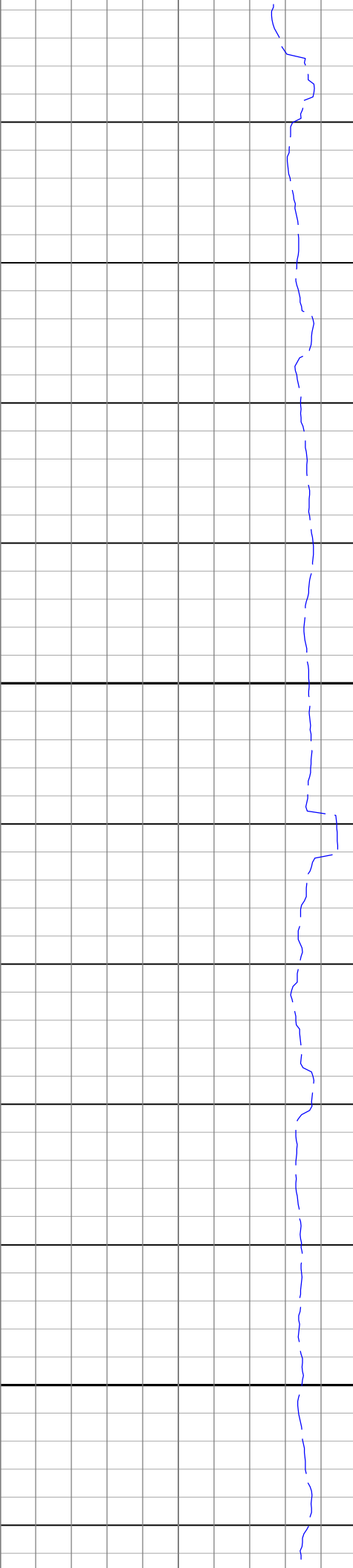
tvd











1330
tvd

1335
tvd

1340
tvd

1345
tvd

**1350
tvd**

1355
tvd

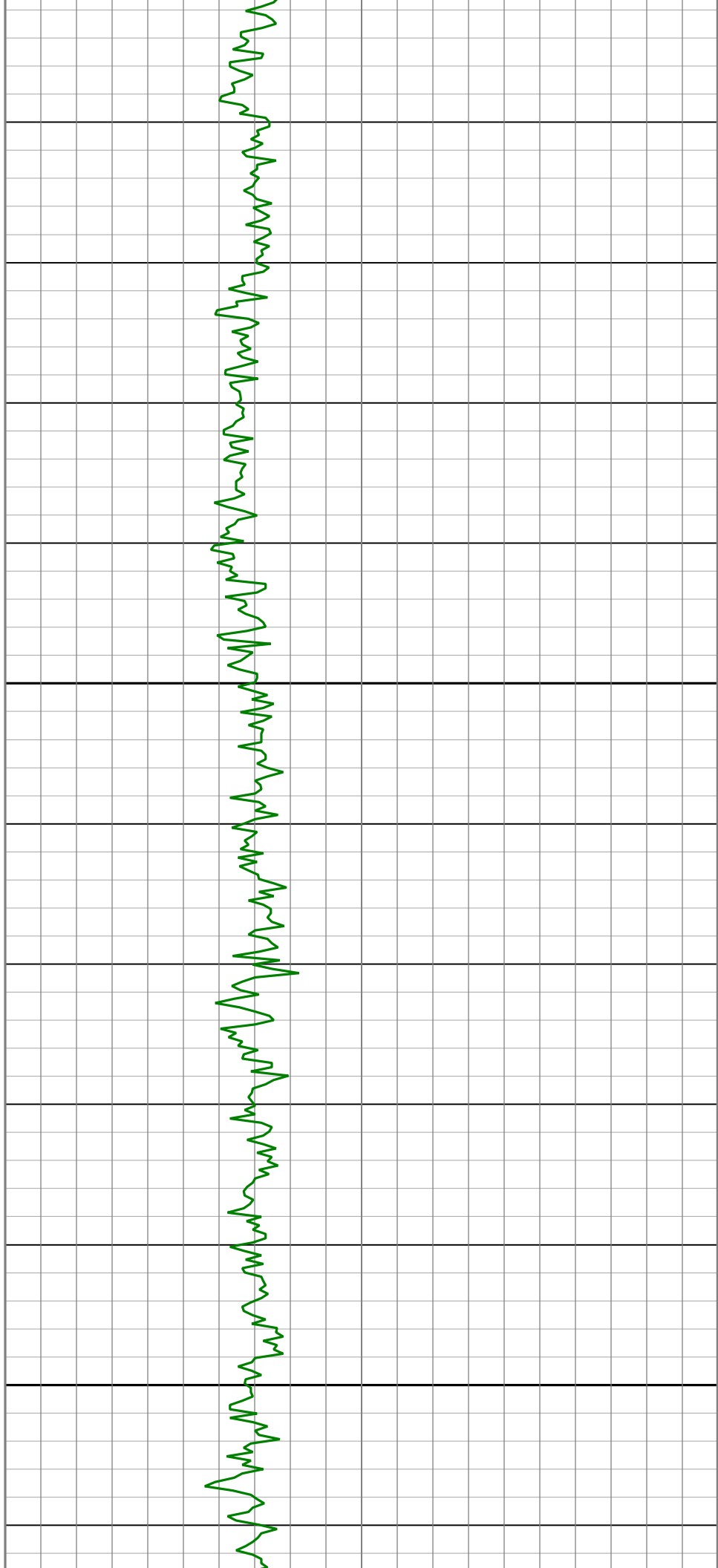
1360
tvd

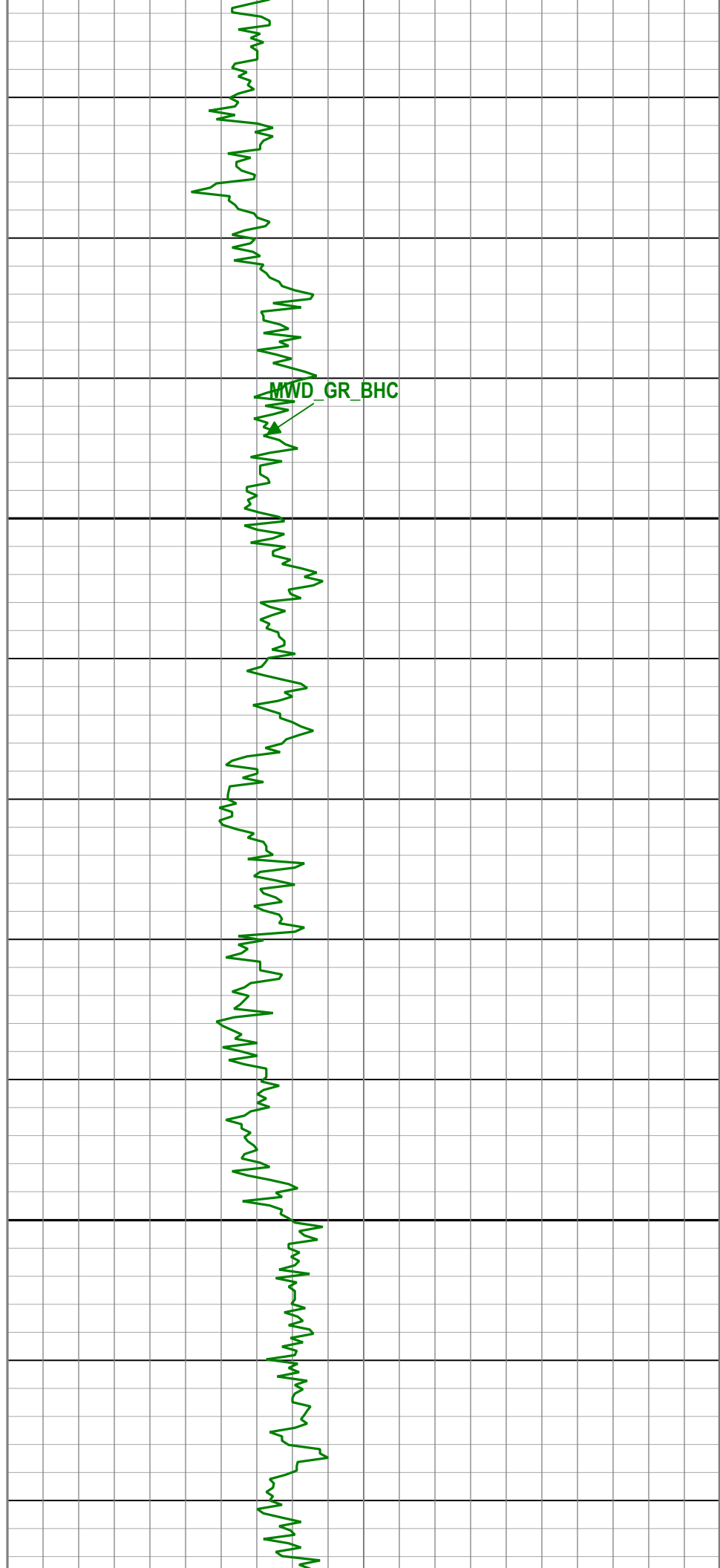
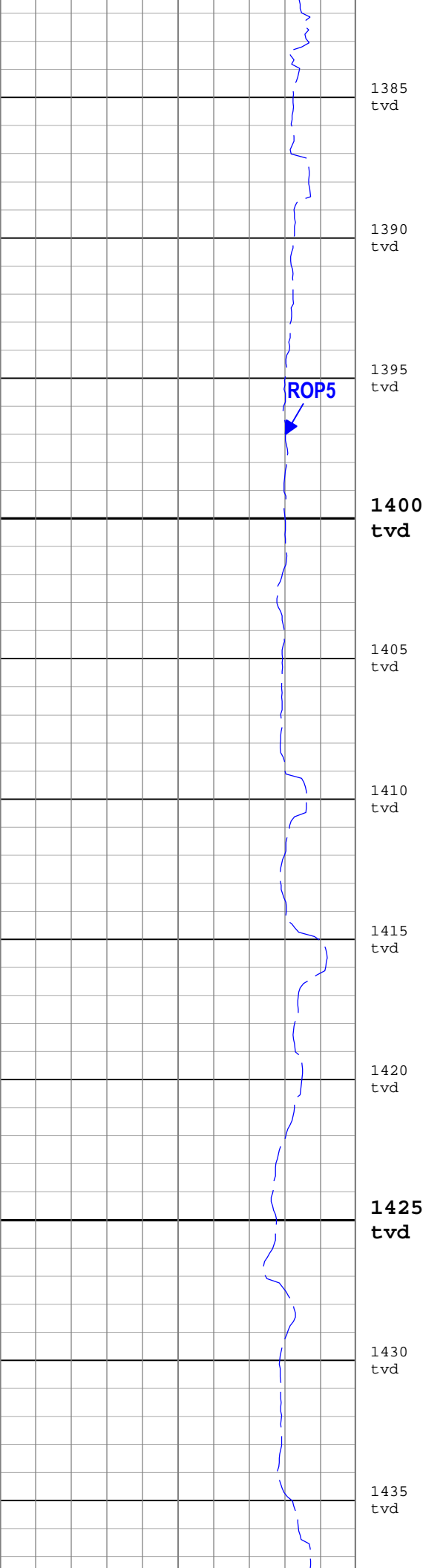
1365
tvd

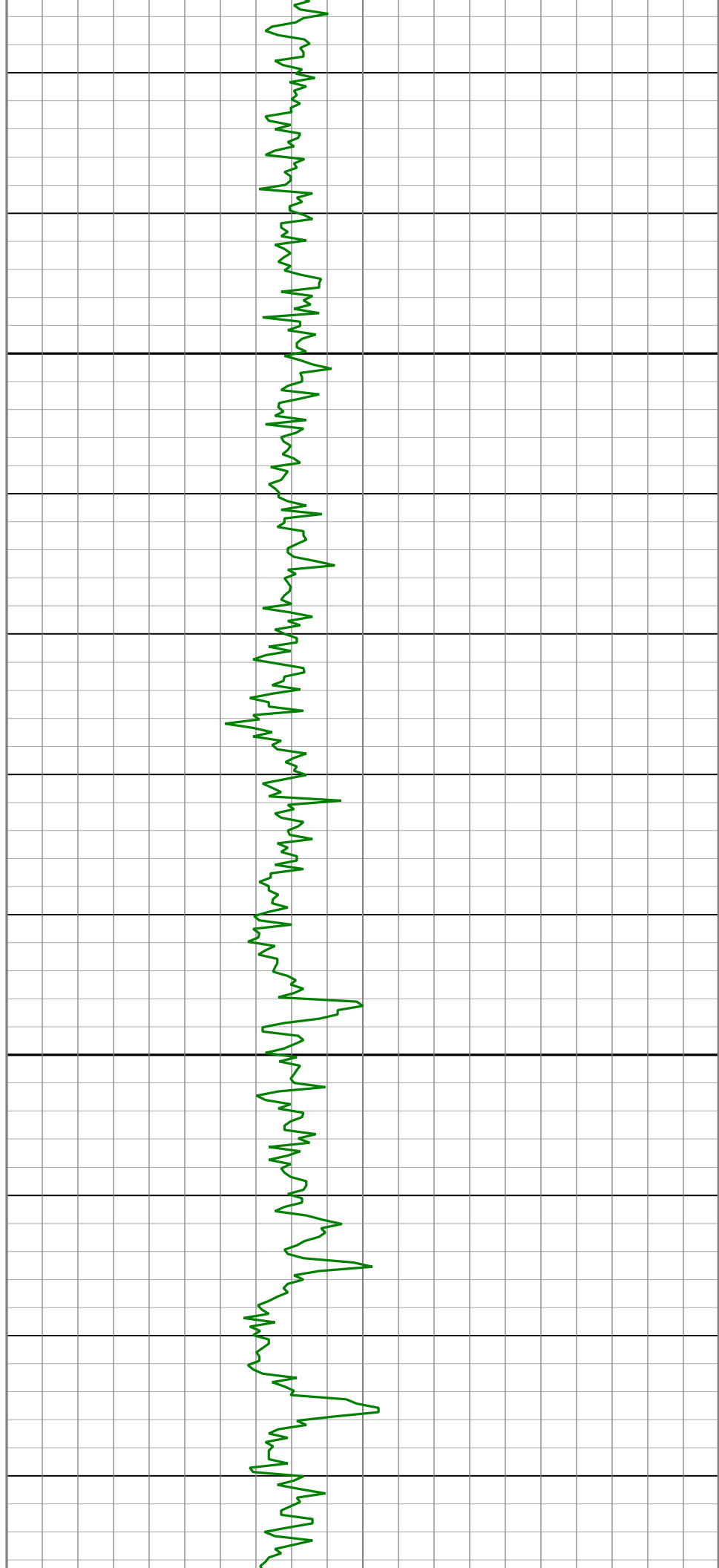
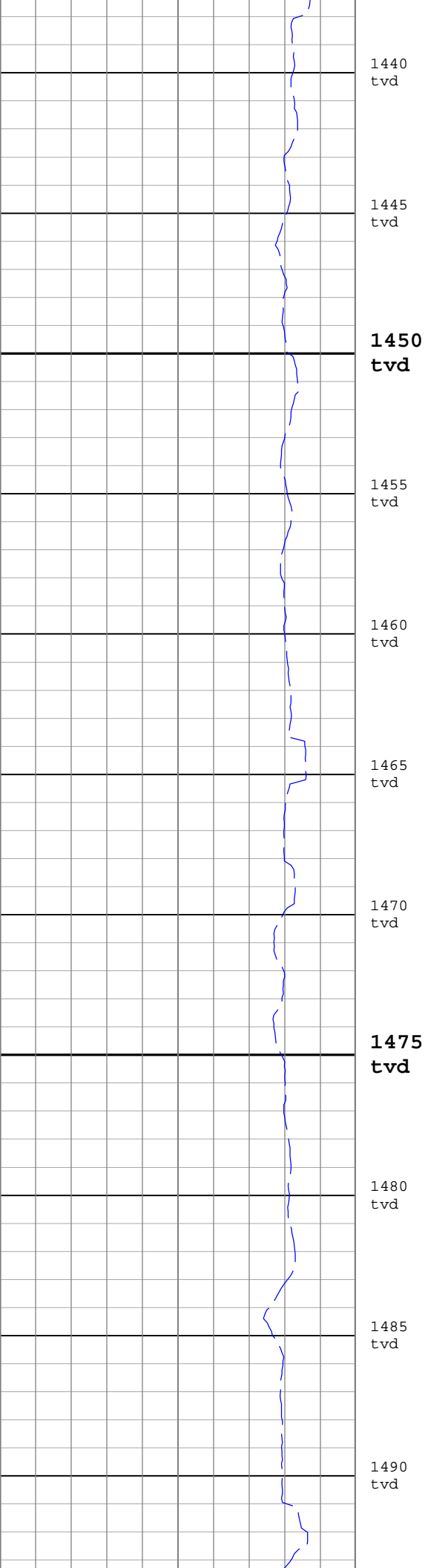
1370
tvd

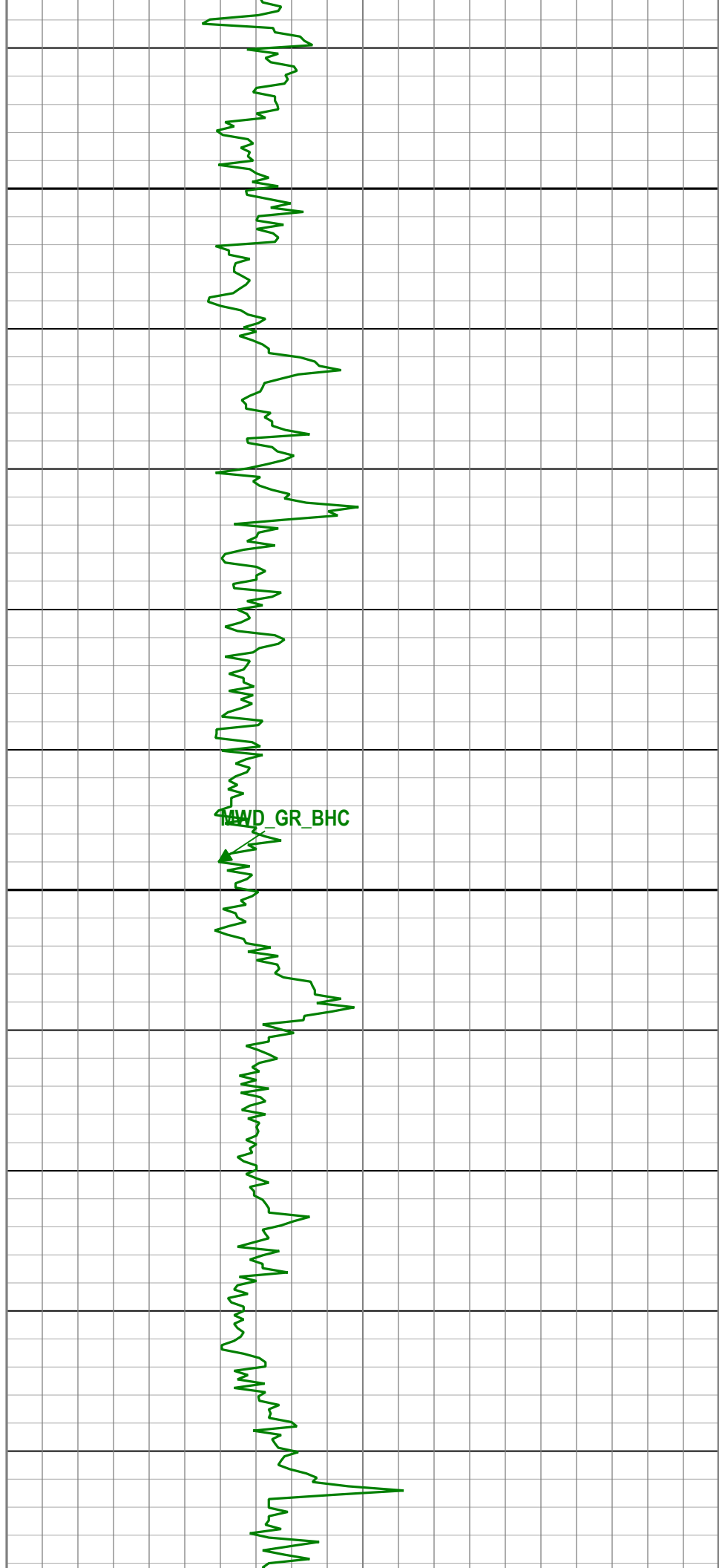
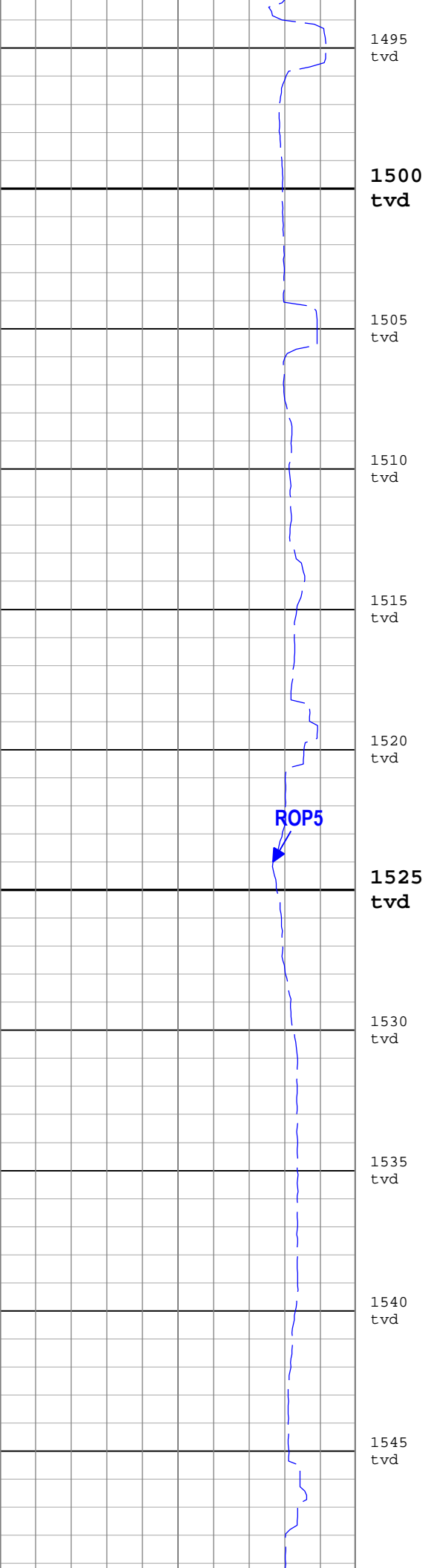
**1375
tvd**

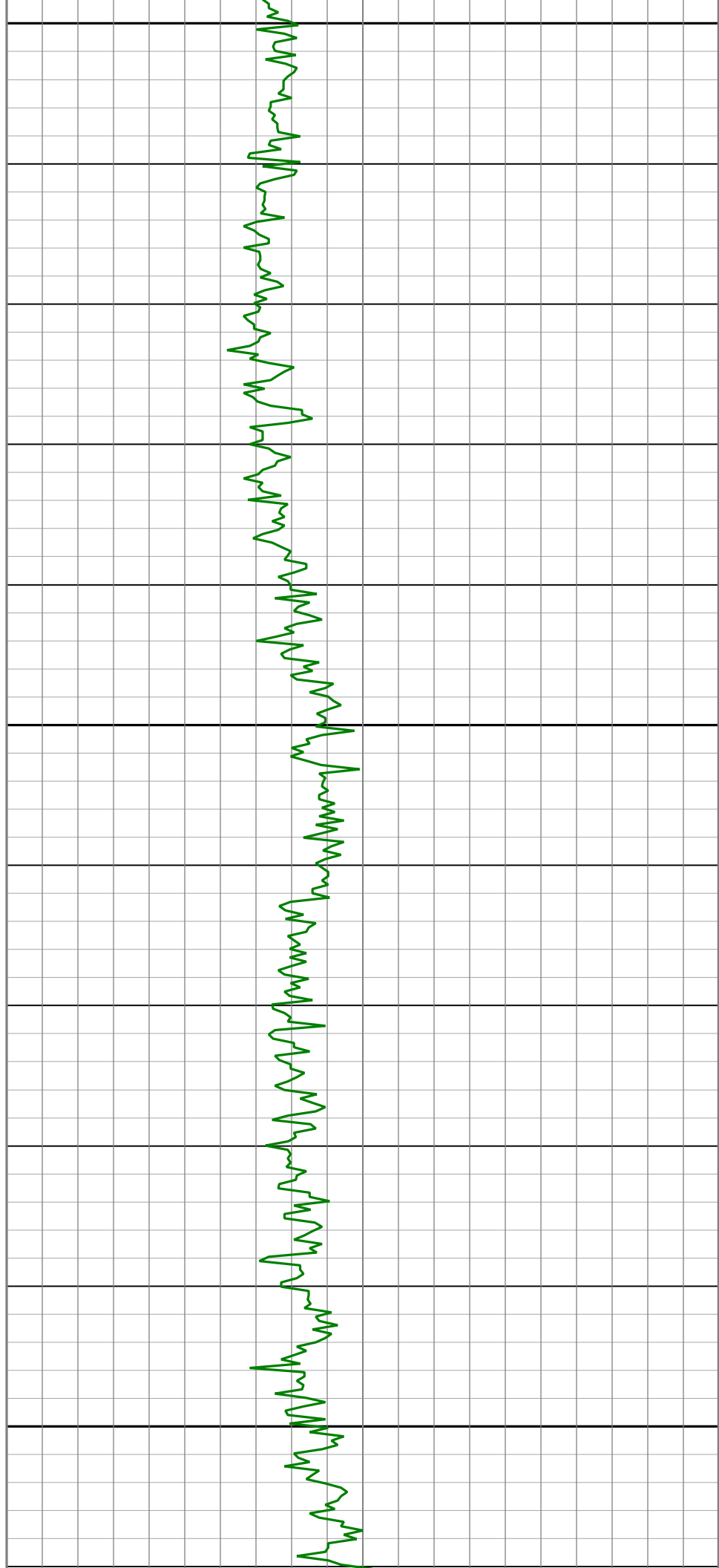
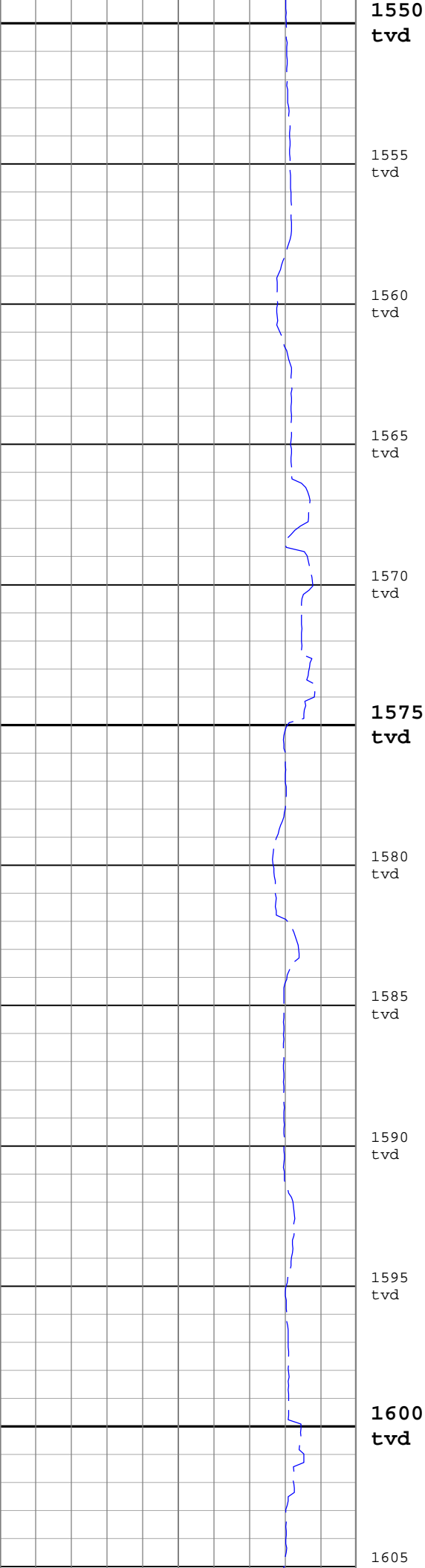
1380
tvd

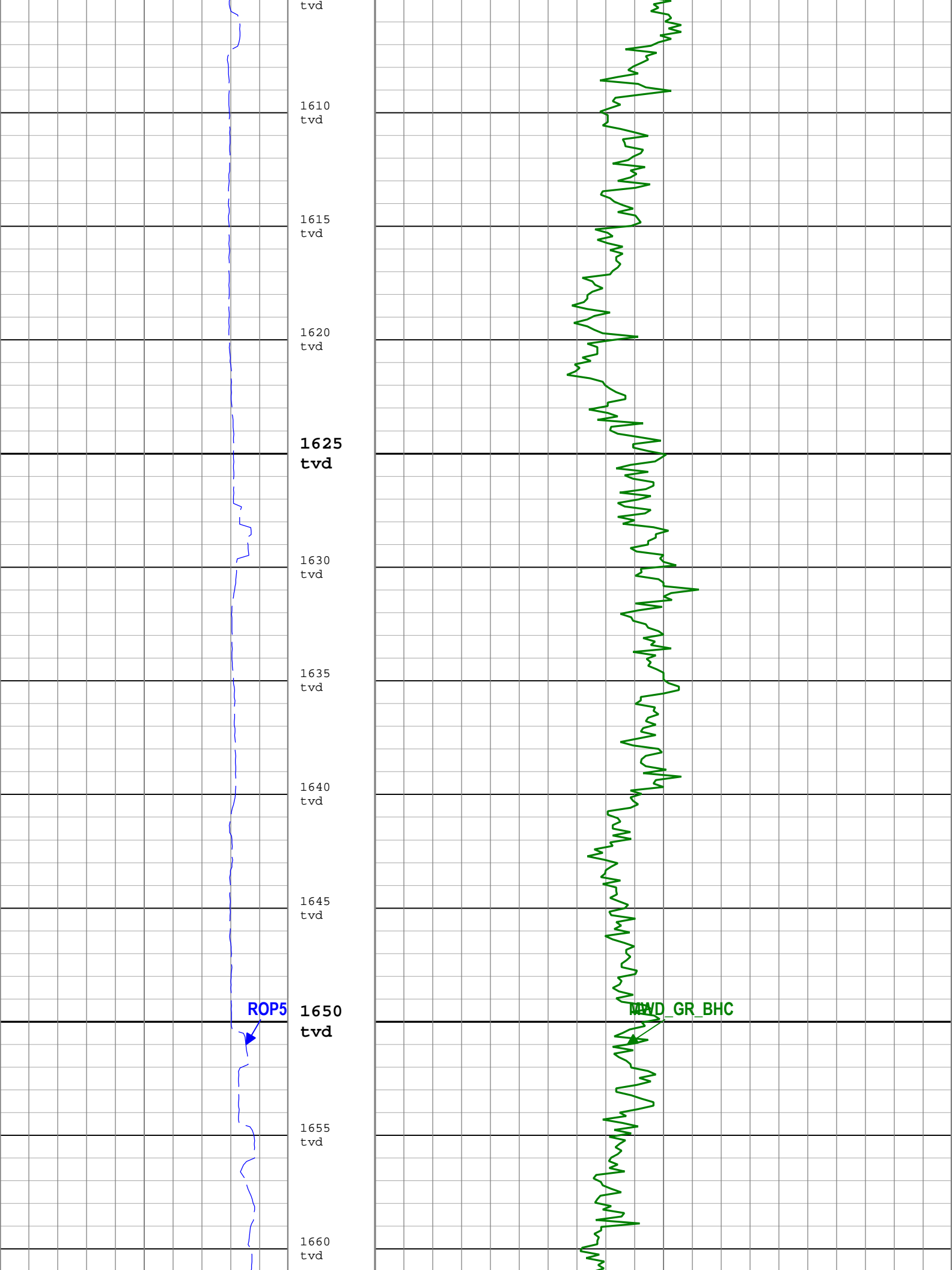


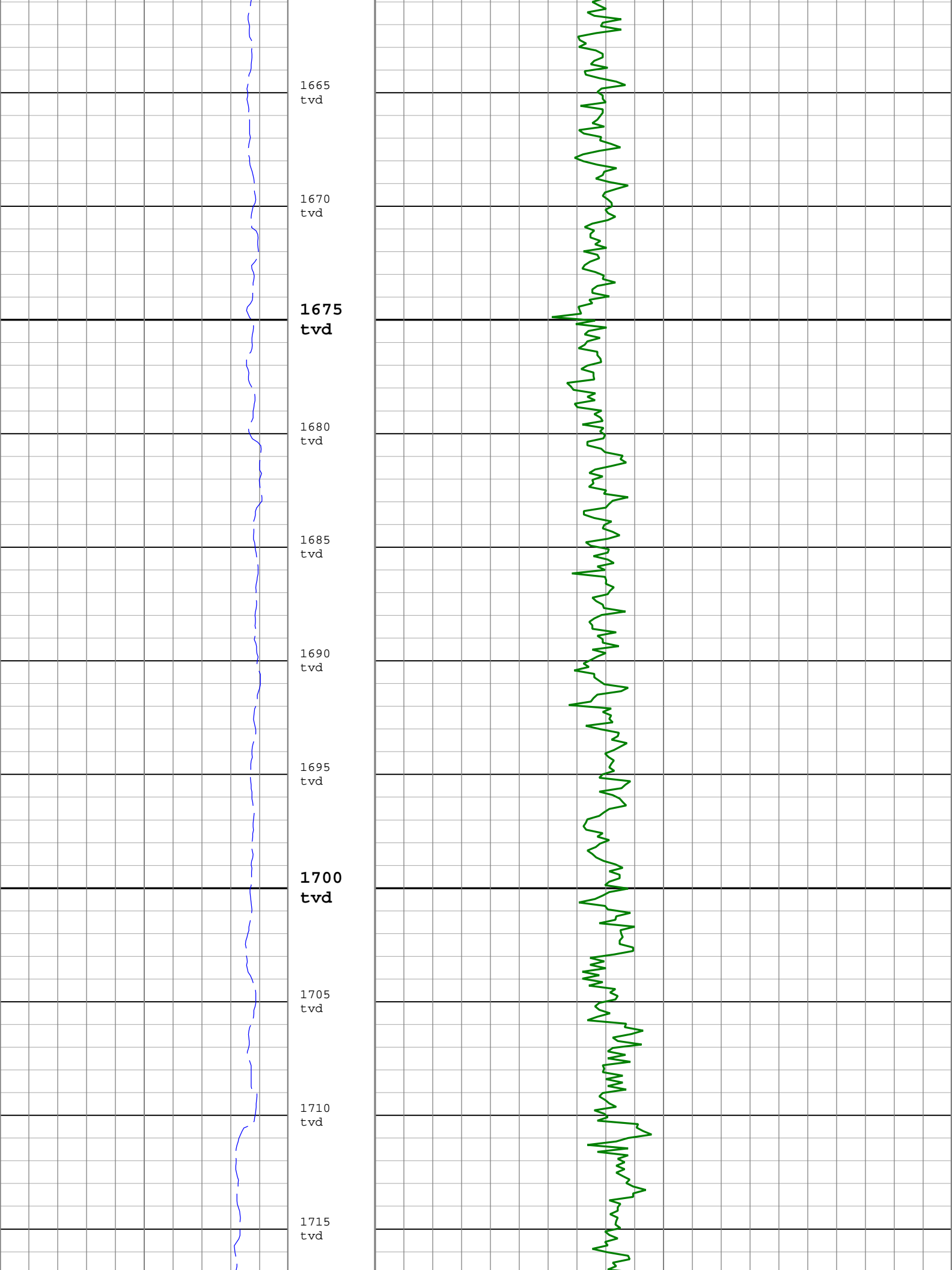


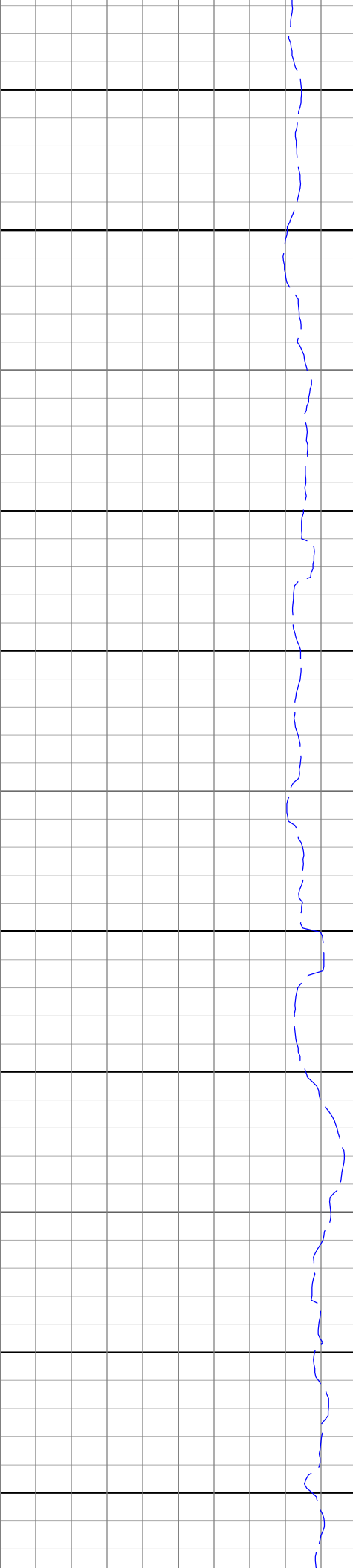












1720
tvd

**1725
tvd**

1730
tvd

1735
tvd

1740
tvd

1745
tvd

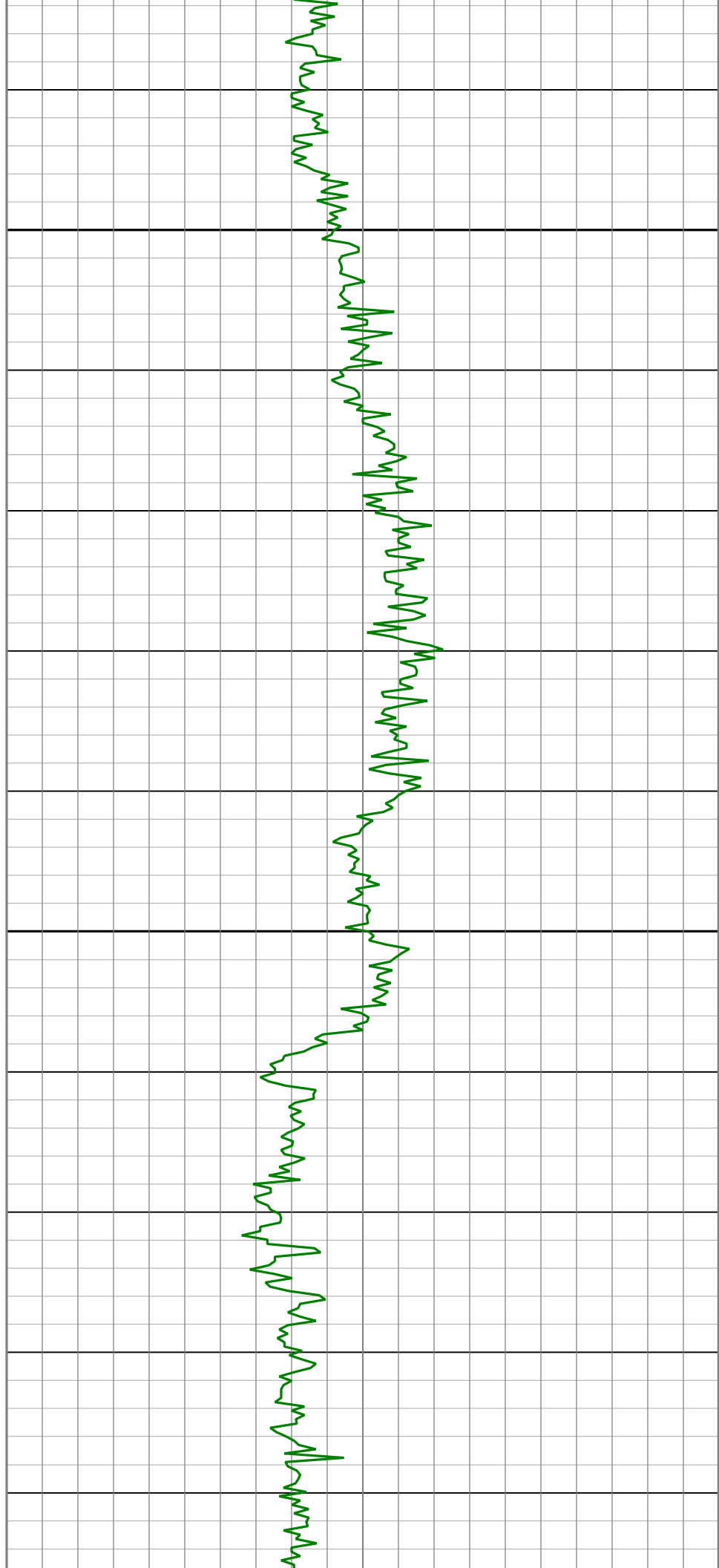
**1750
tvd**

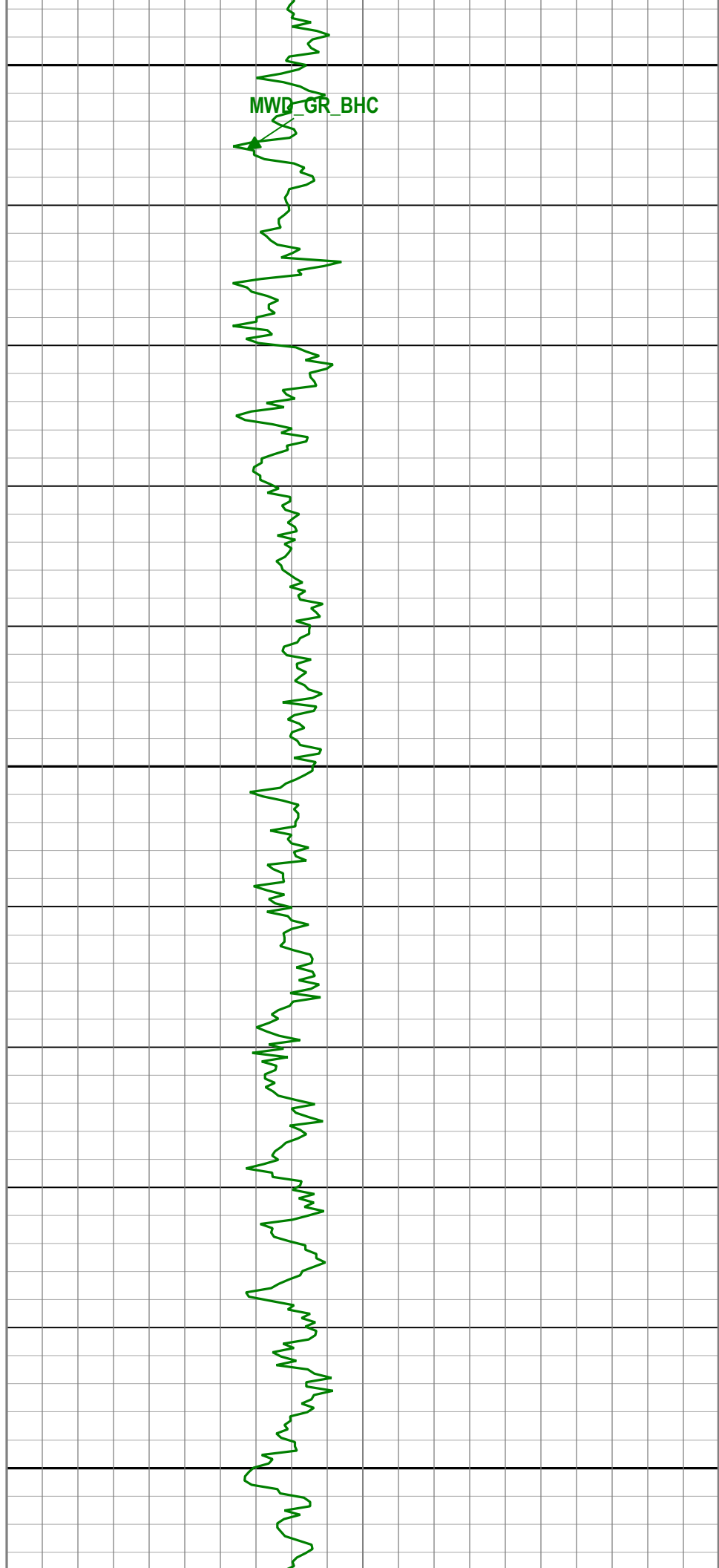
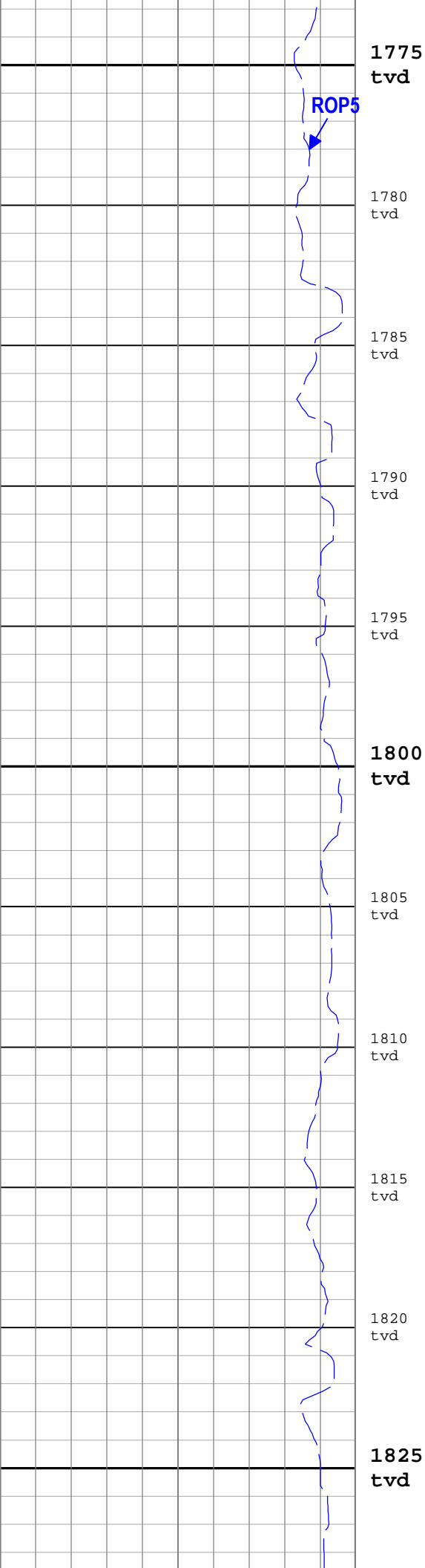
1755
tvd

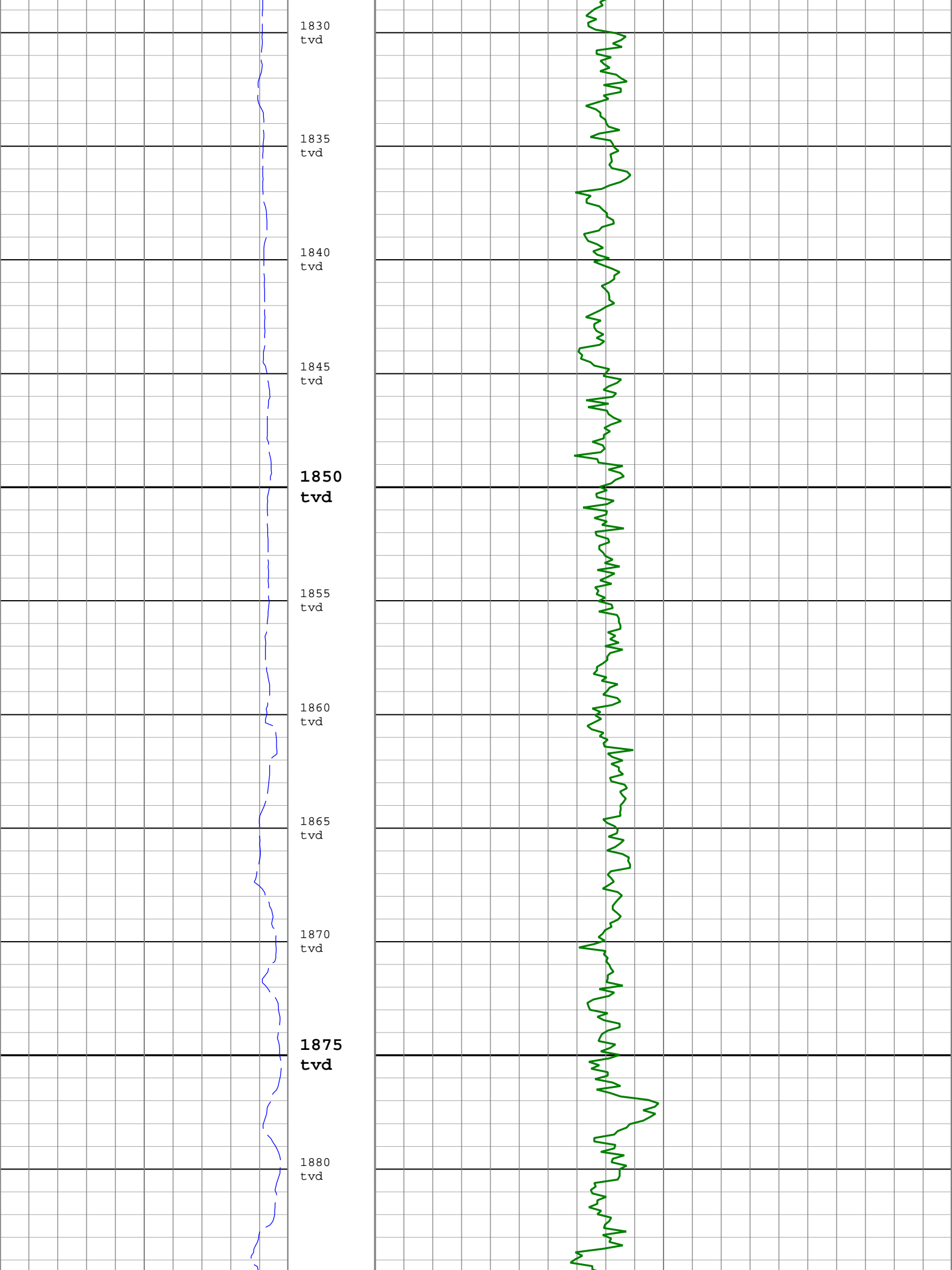
1760
tvd

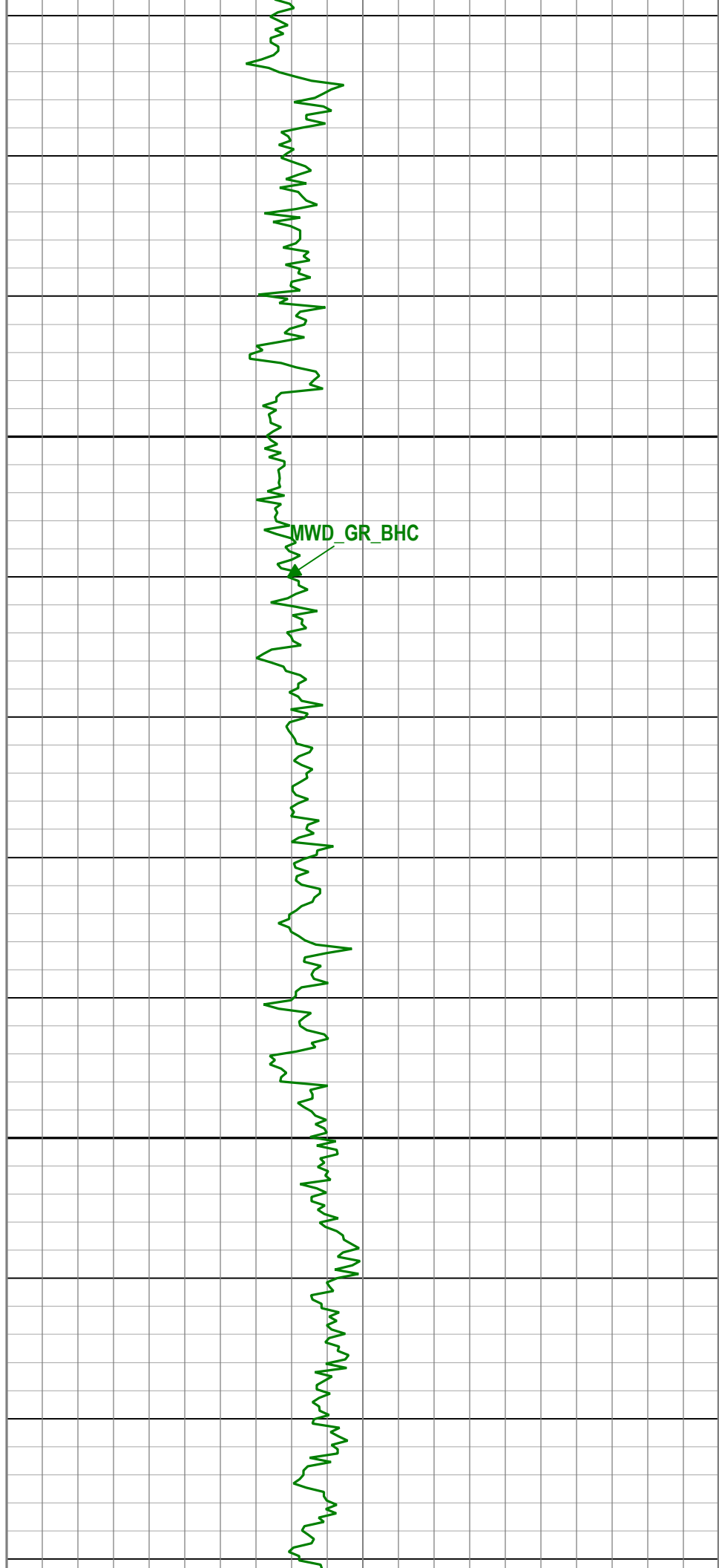
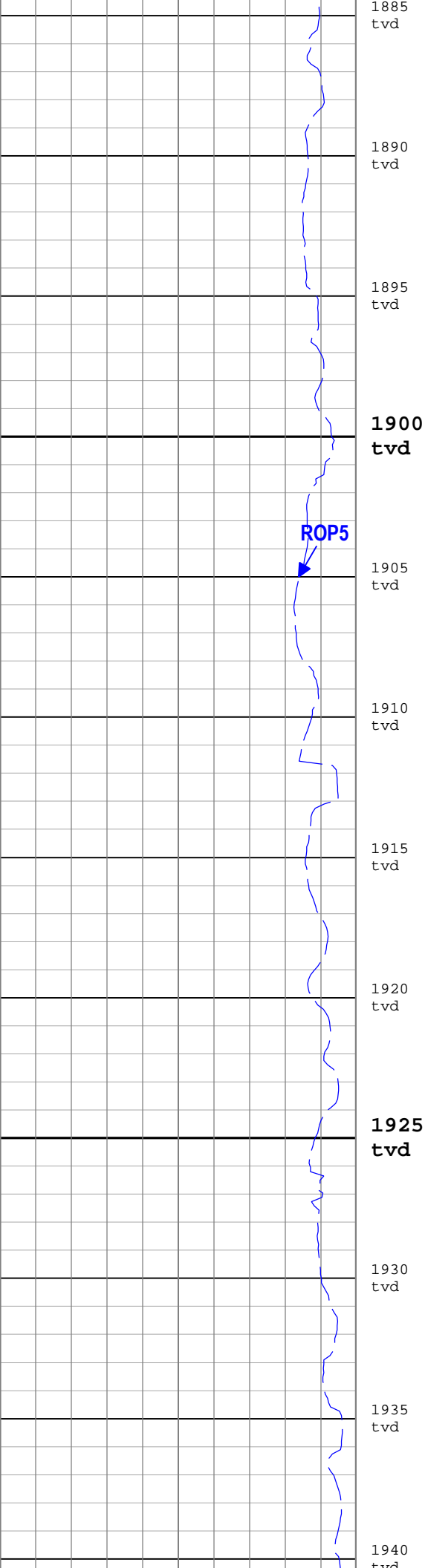
1765
tvd

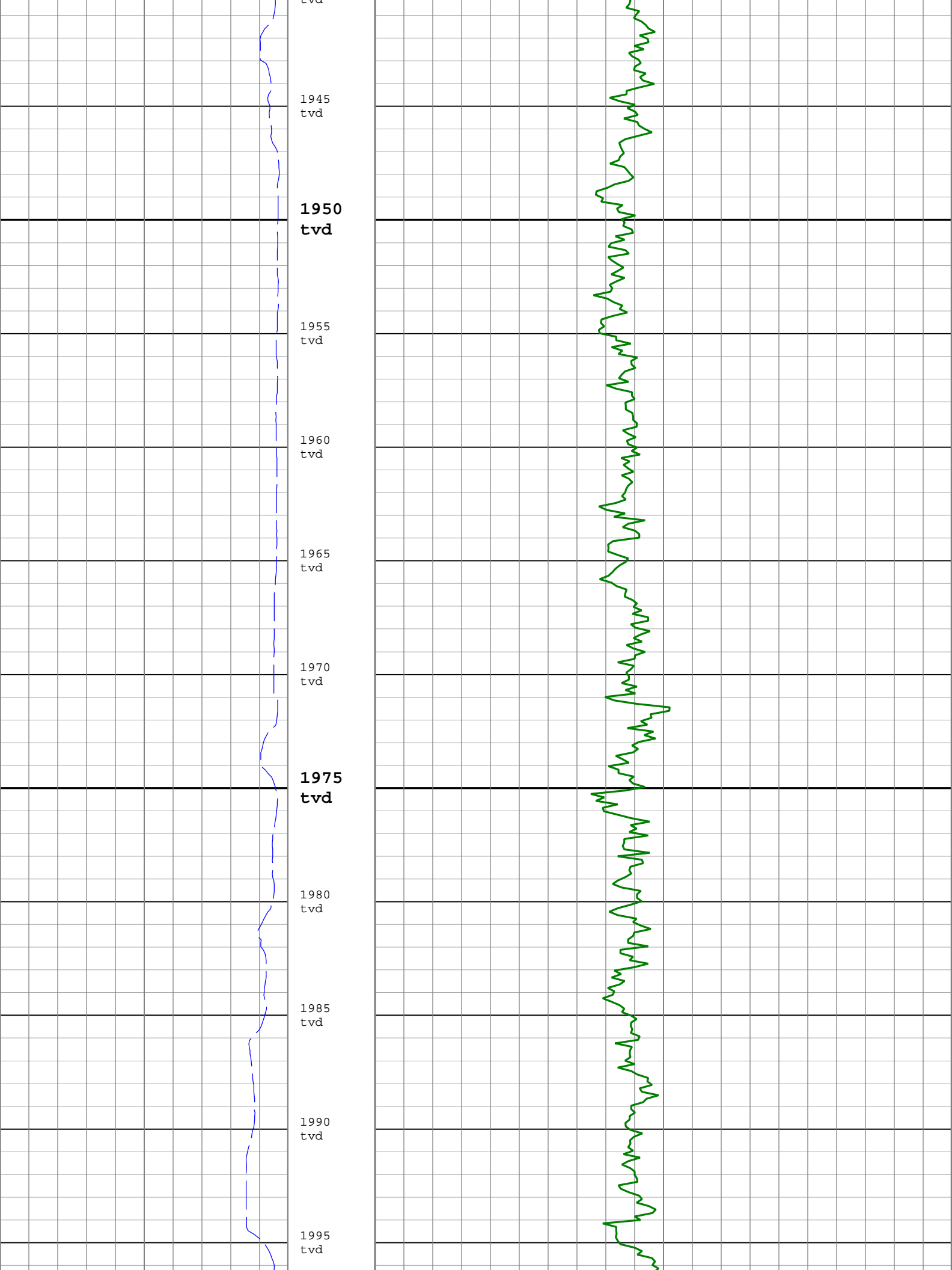
1770
tvd

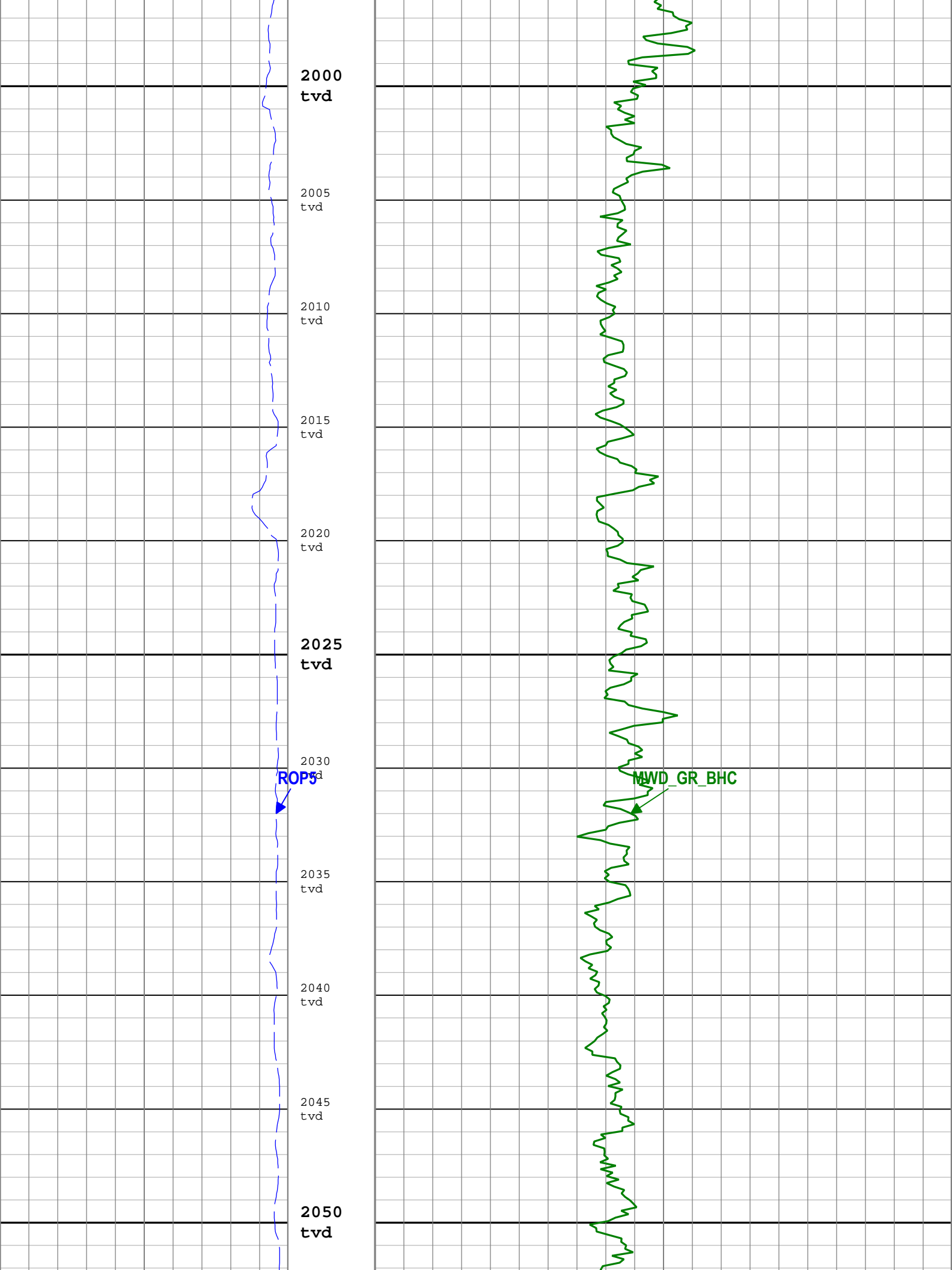


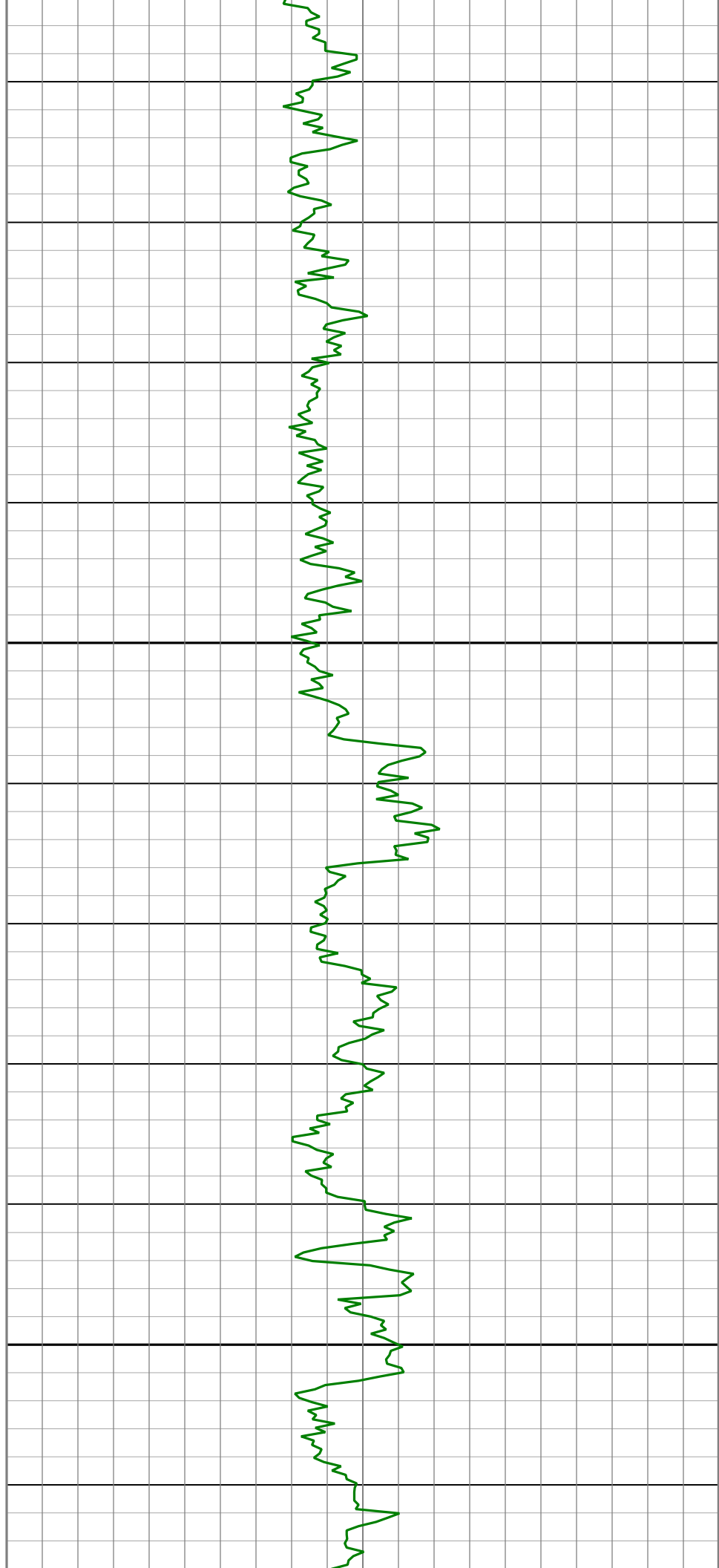
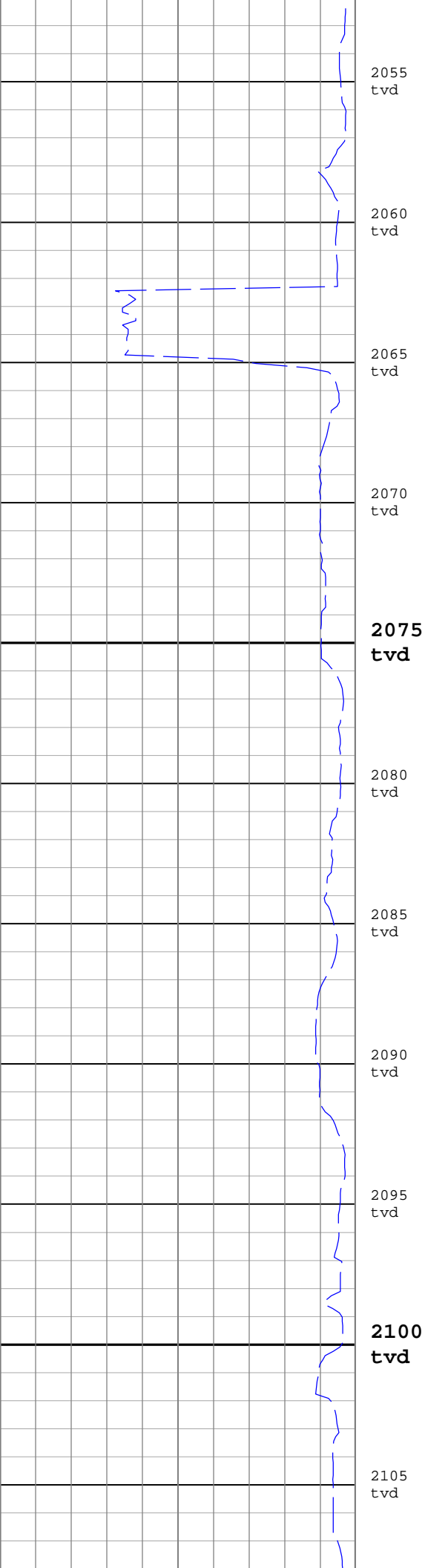


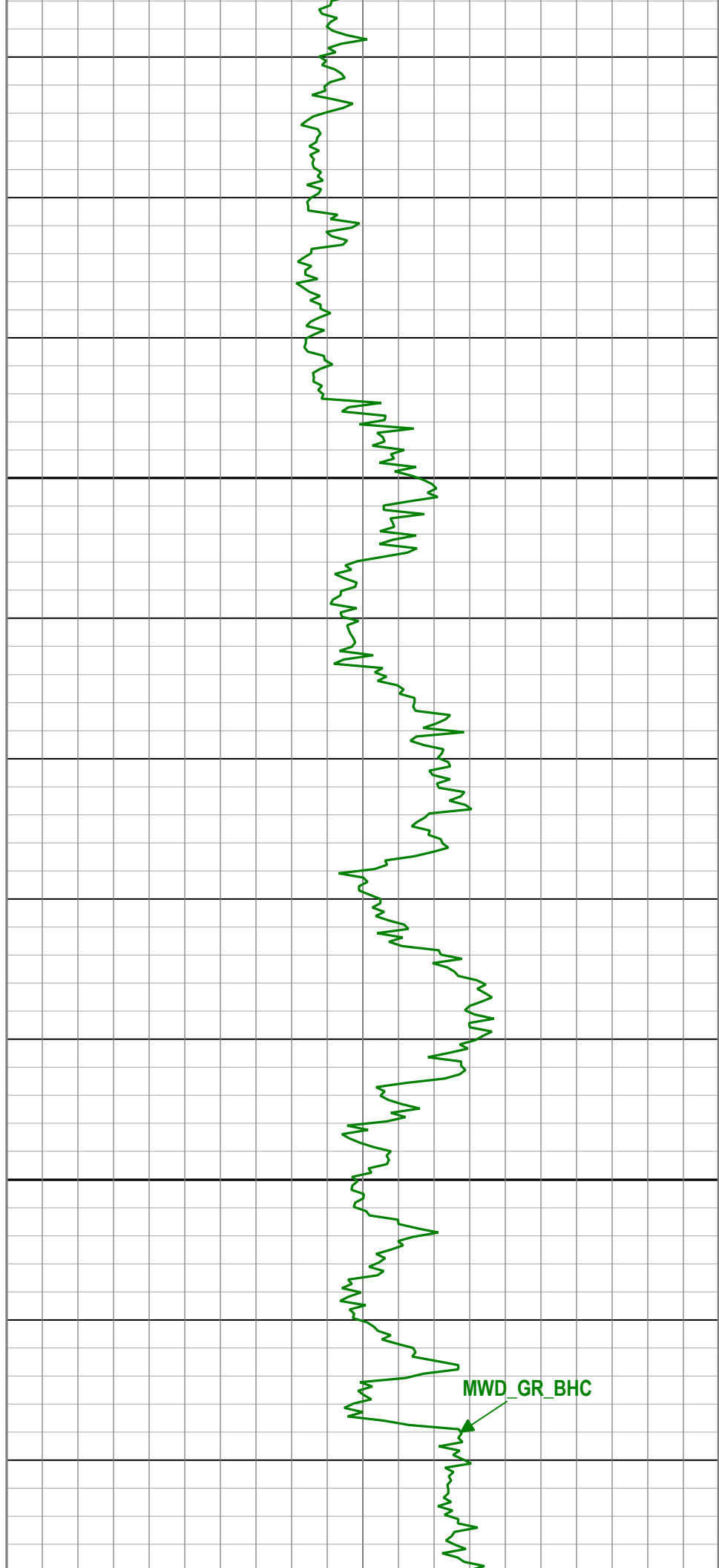
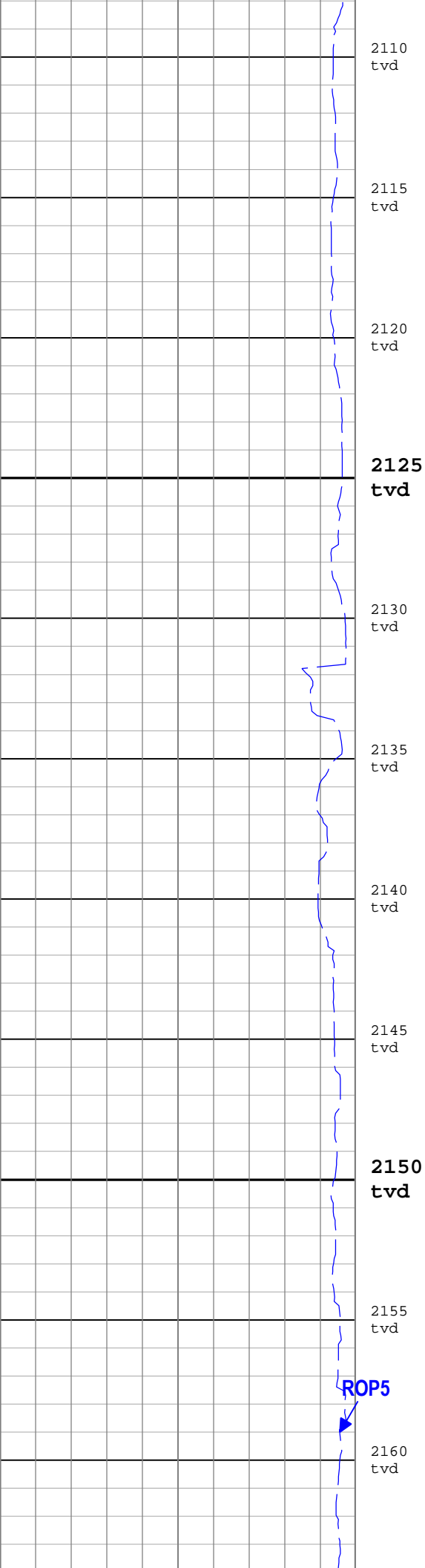


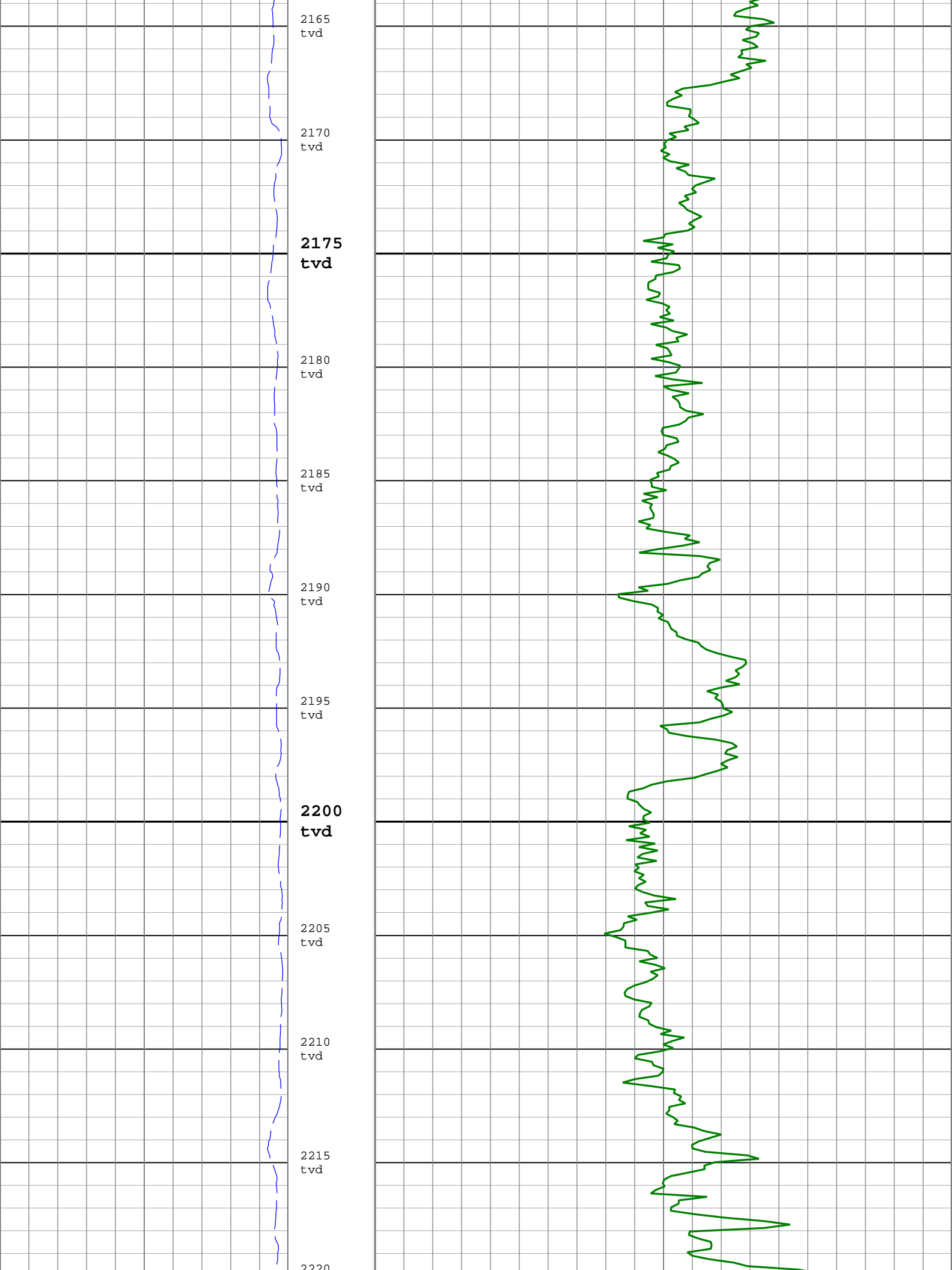


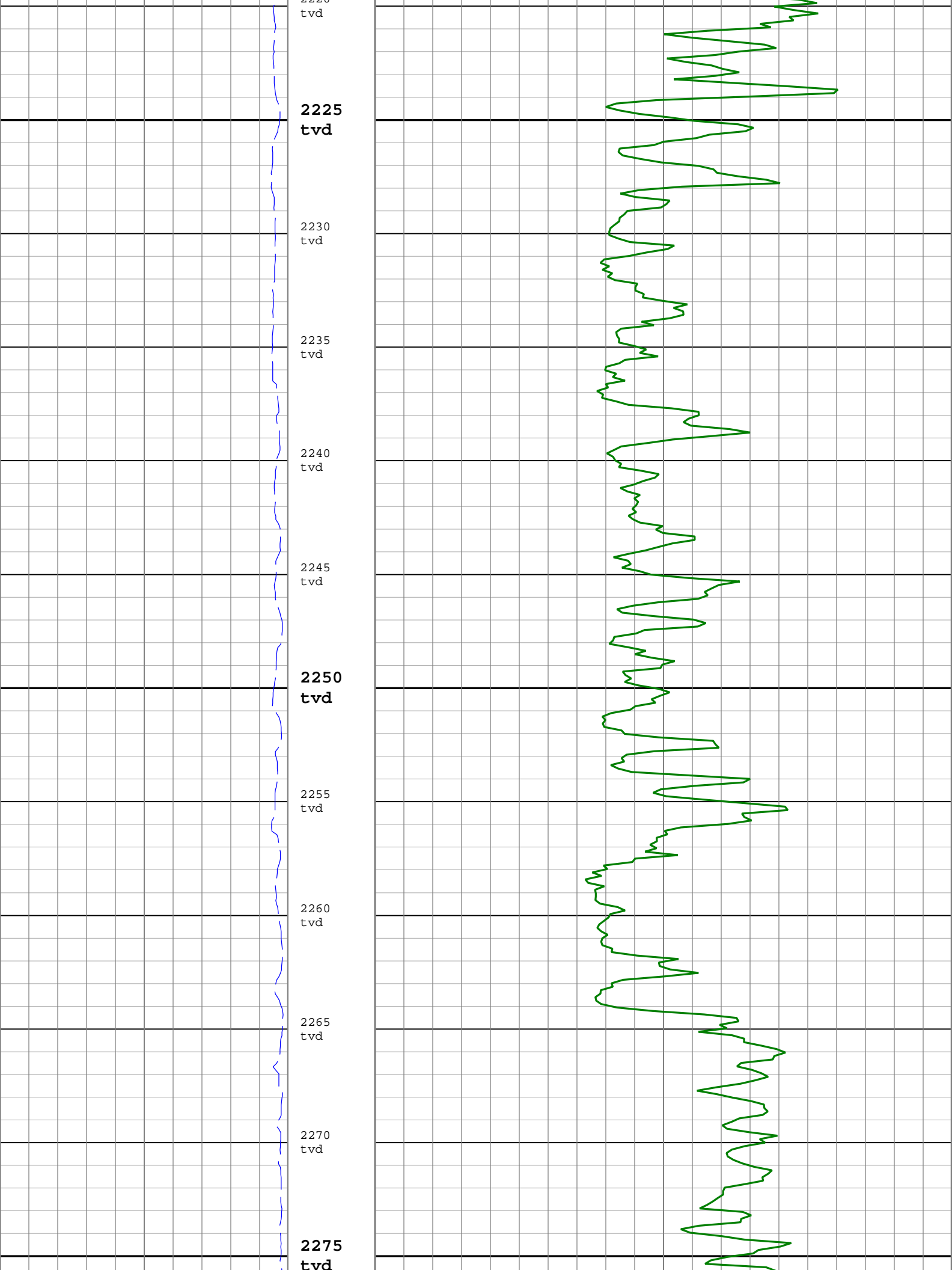


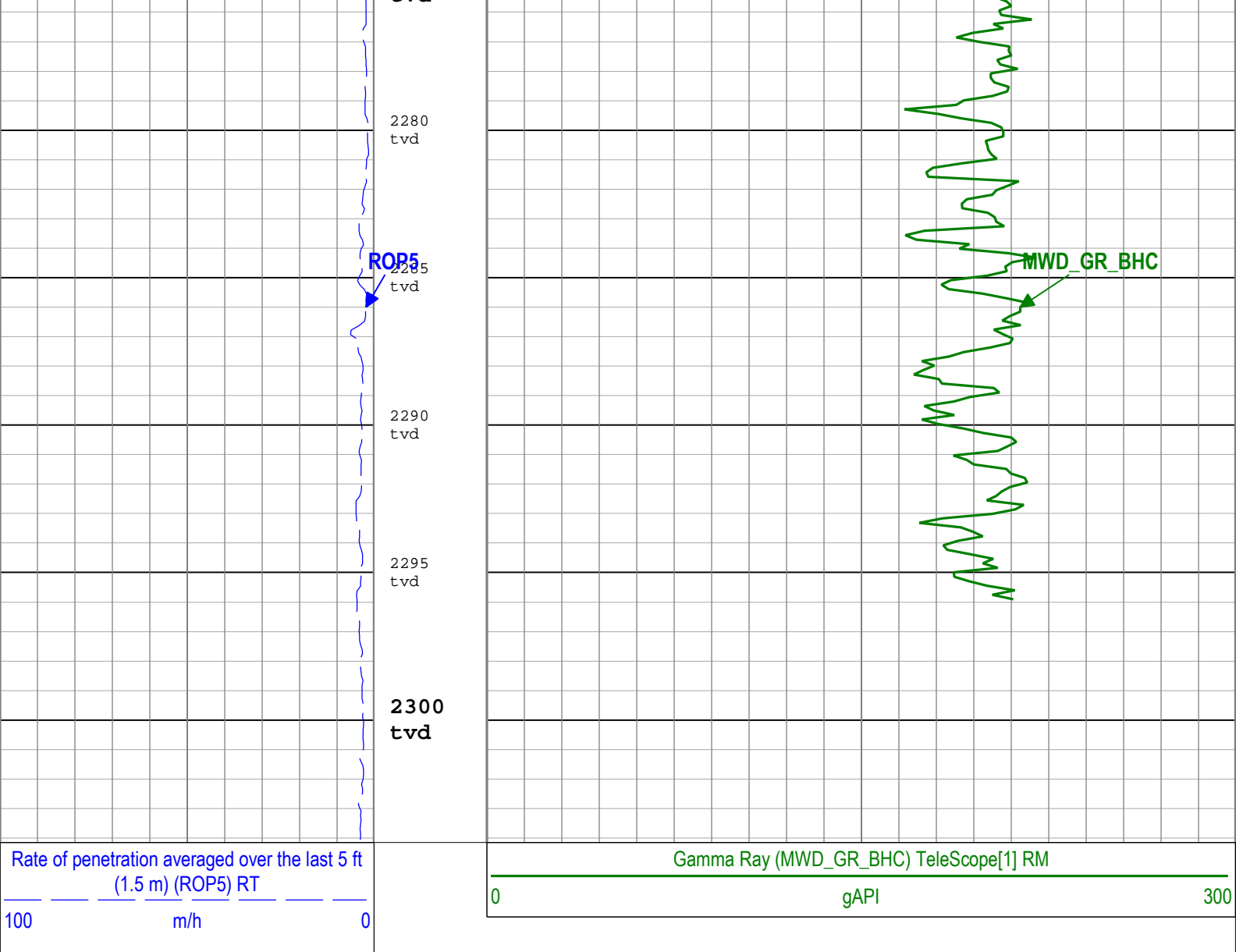












Description: TeleScope Gamma Ray Depth RT Format: Log (GR MWD and PD no ticks) Index Scale: 1:200 Index Unit: m Index Type: TVD Creation Date: 19-Apr-2018 18:52:09

17.5 in. Section Composite

MWD - Gamma Ray 1:1000 TVD

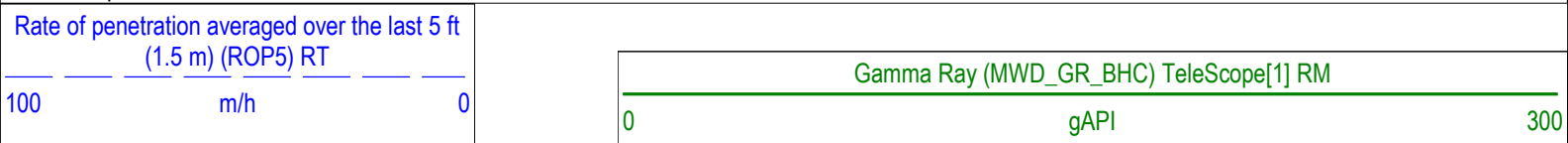
Composite Summary							
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run 4	Drilling	Down	1263.70 m	2185.64 m	06-Apr-2018 15:01:35	13-Apr-2018 09:39:39	Yes
Run 4	Ream Down 1	Down	1092.33 m	1264.01 m	07-Apr-2018 08:59:11	07-Apr-2018 16:00:37	Yes
Run 5	Ream Down 1	Down	2174.34 m	2185.64 m	14-Apr-2018 02:05:50	14-Apr-2018 02:39:27	Yes
Run 5	Drilling	Down	2185.37 m	2384.81 m	13-Apr-2018 10:30:25	17-Apr-2018 09:51:19	Yes

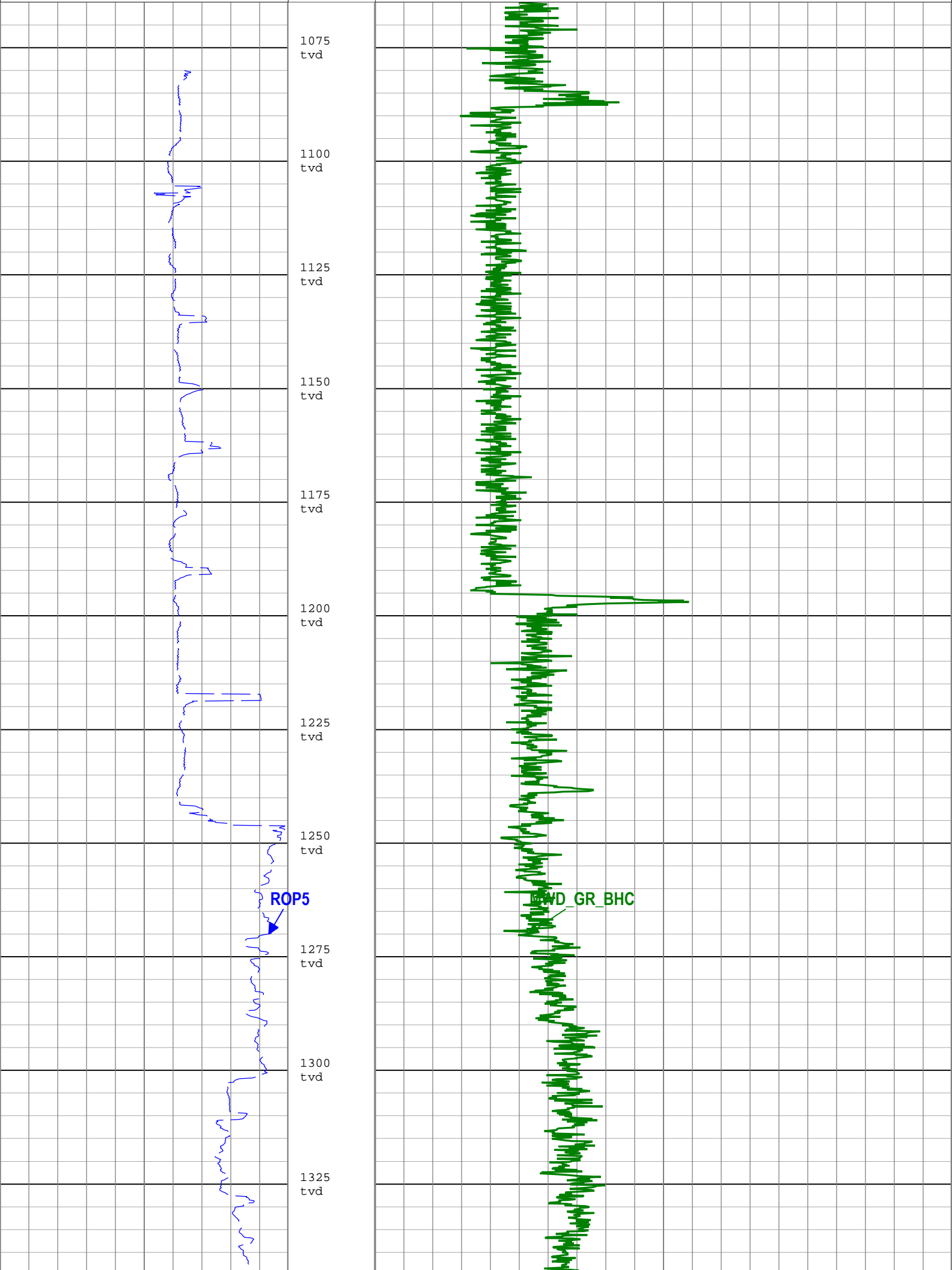
All depths are referenced to toolstring zero

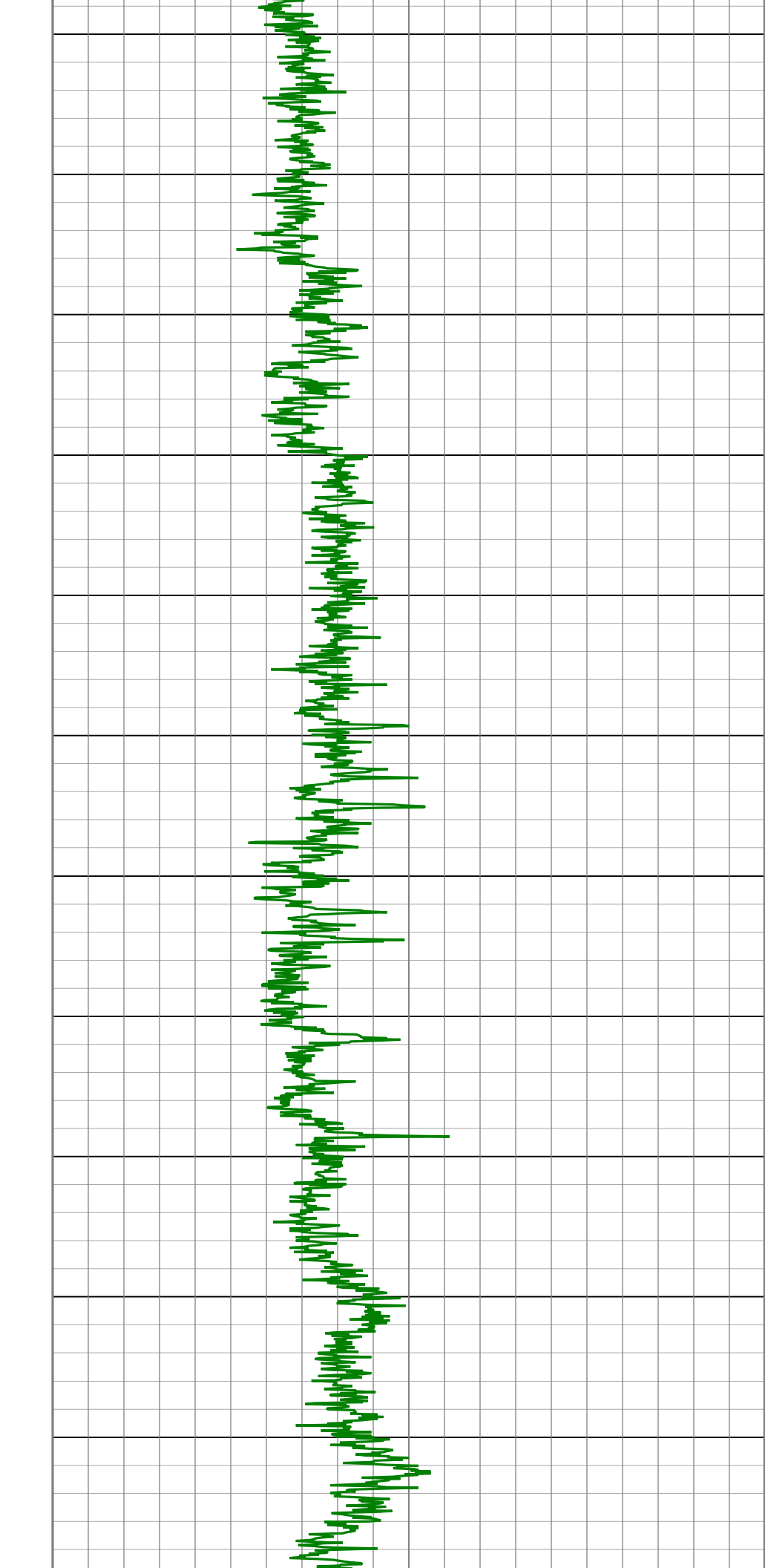
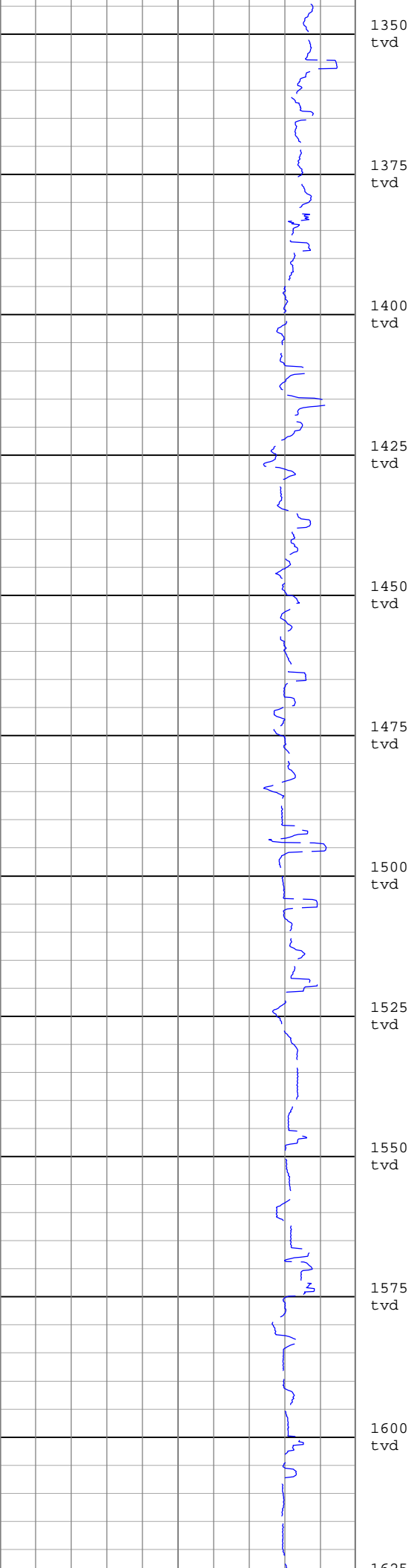
Log

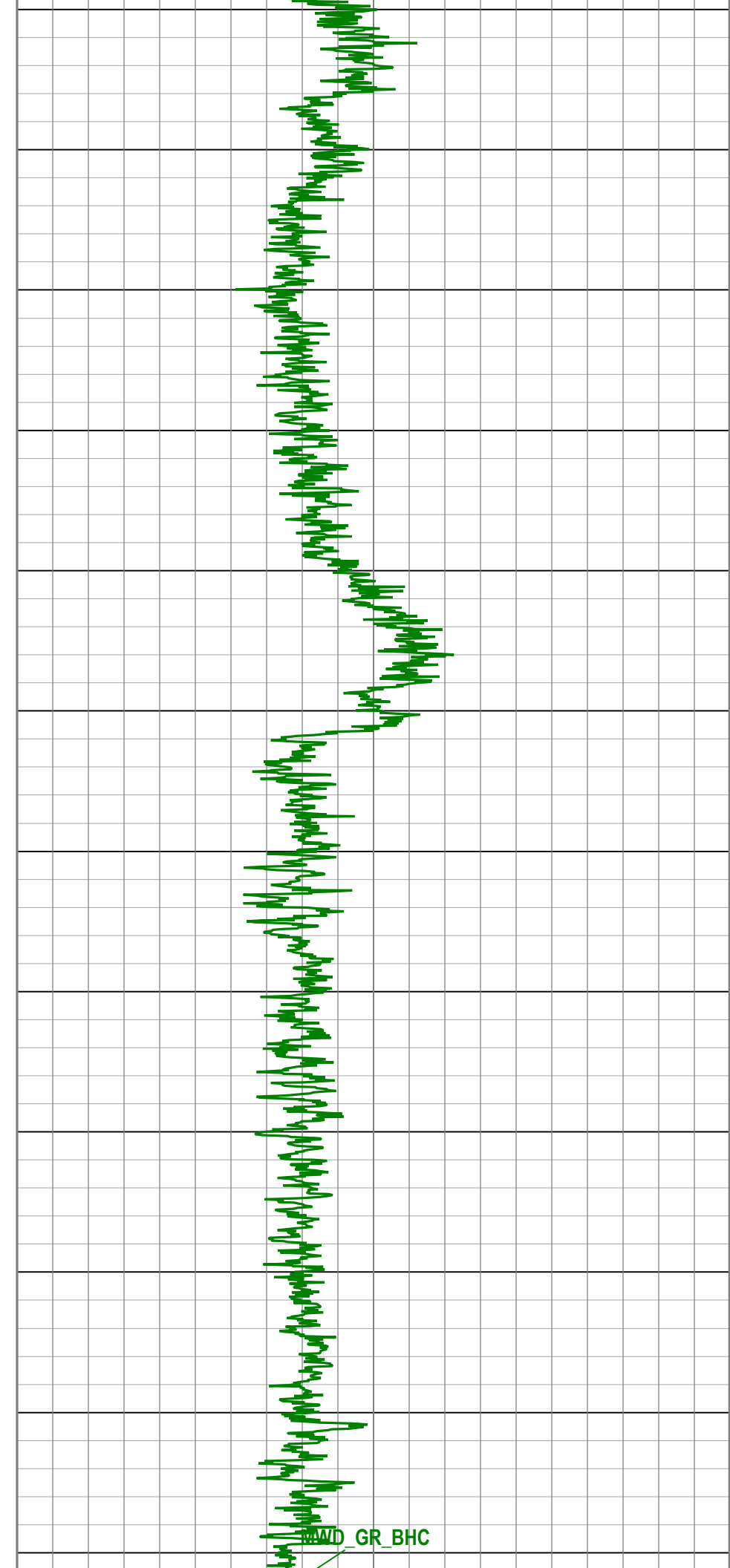
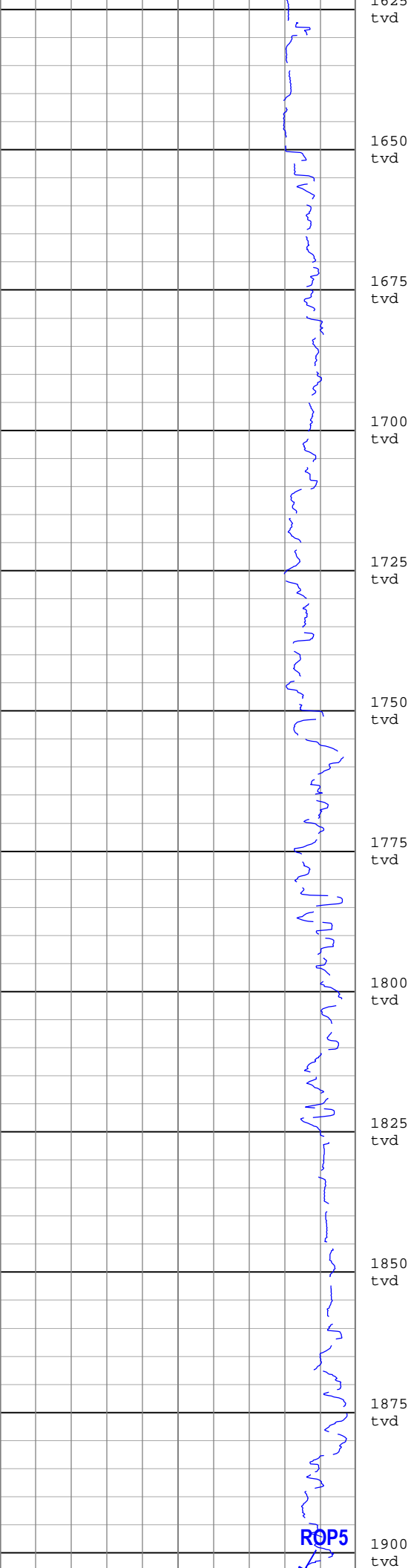
Company: Trias Westland B.V. Well: NLW-GT-02-S1
17.5 in. Section Composite: S108

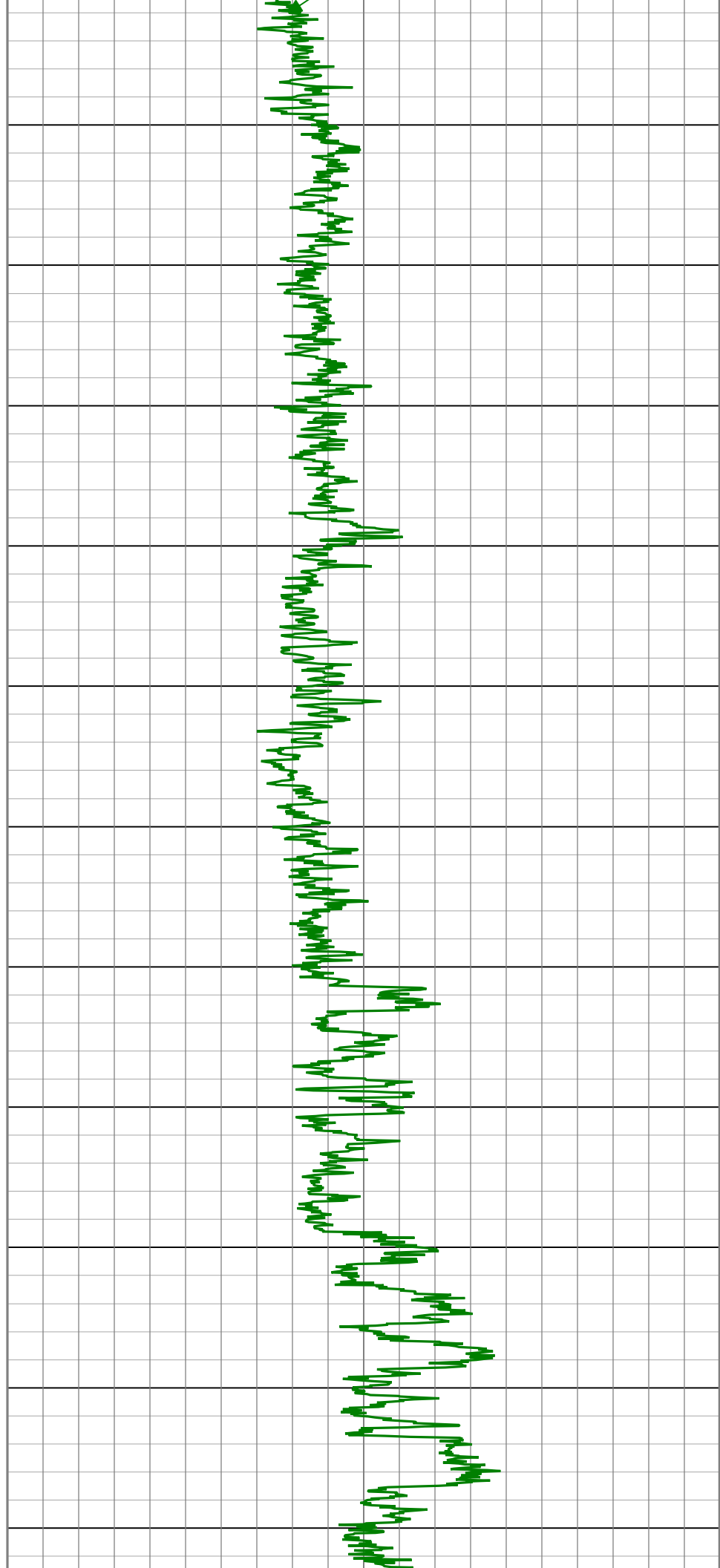
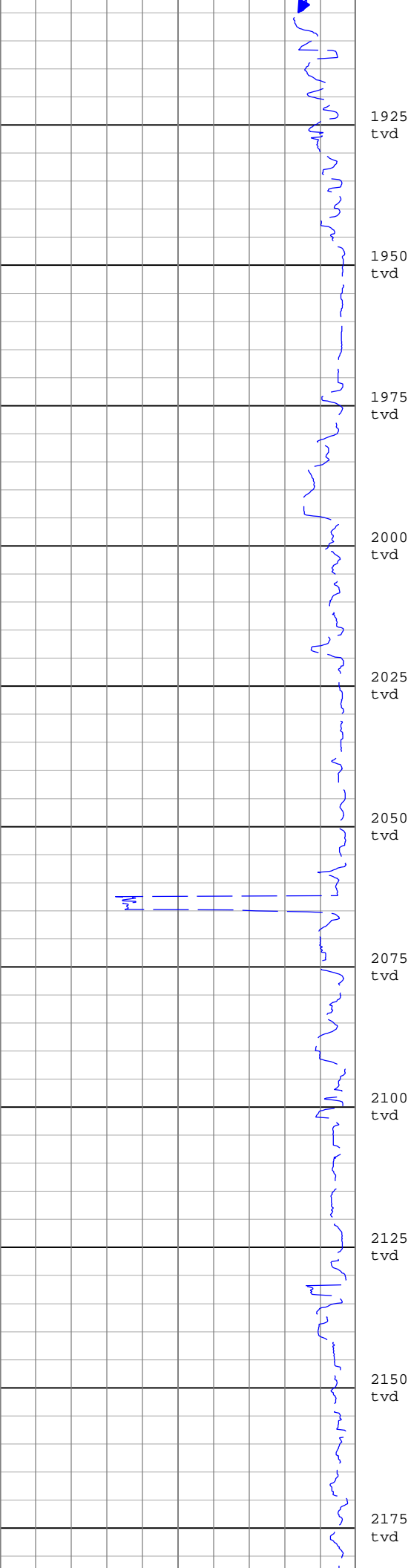
Description: TeleScope Gamma Ray Depth RT Format: Log (GR MWD and PD no ticks) Index Scale: 1:1000 Index Unit: m Index Type: TVD Creation Date: 19-Apr-2018 18:52:17

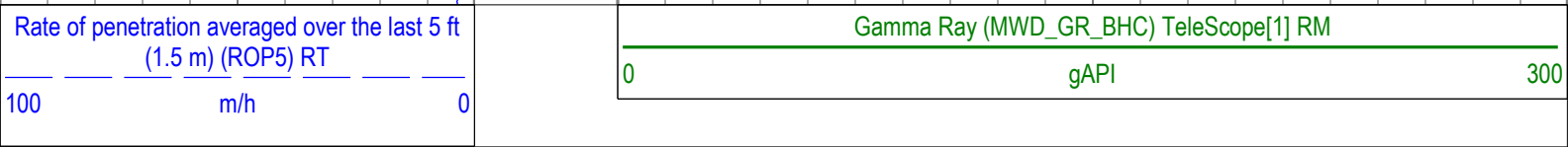
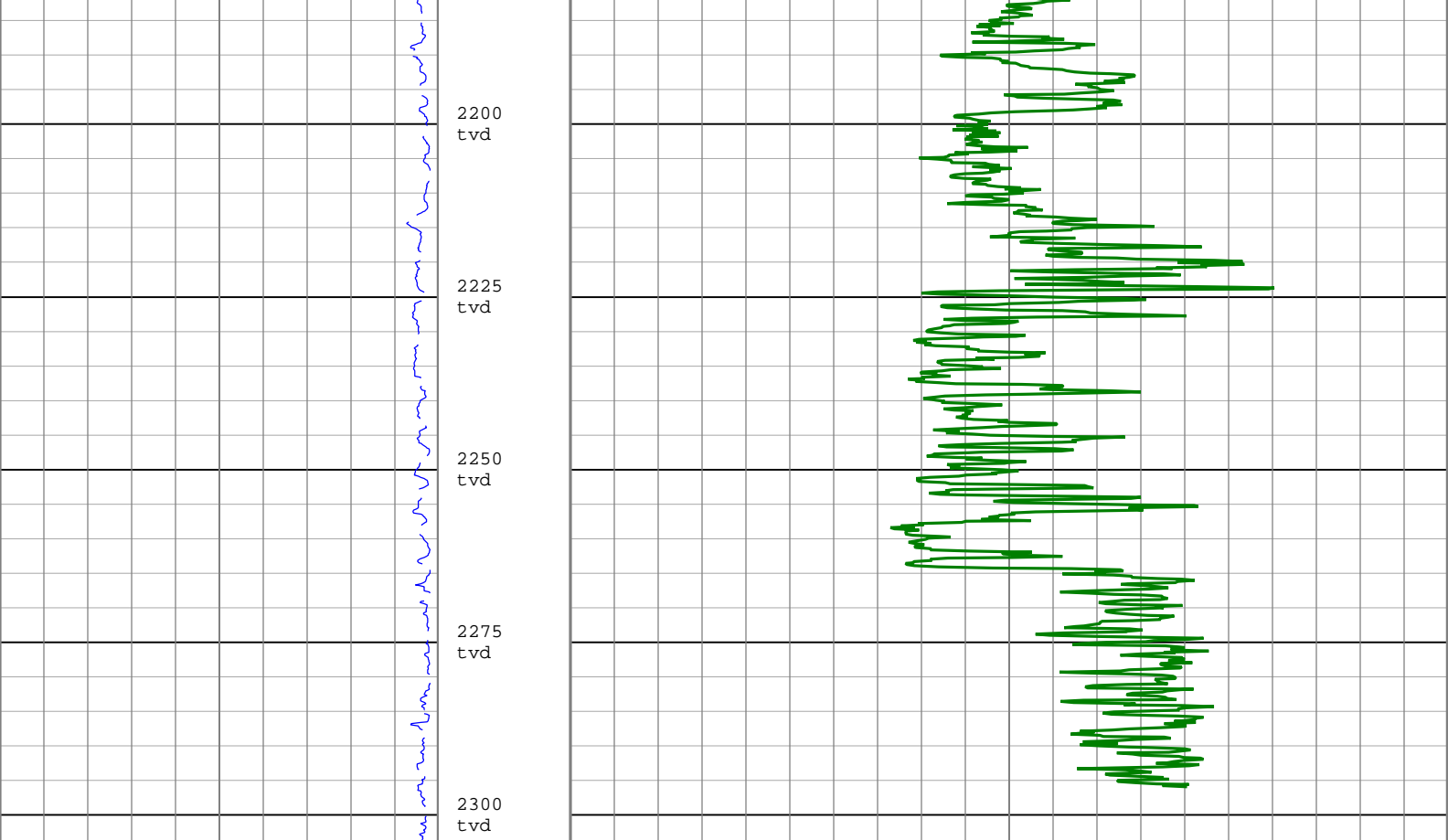












Description: TeleScope Gamma Ray Depth RT Format: Log (GR MWD and PD no ticks) Index Scale: 1:1000 Index Unit: m Index Type: TVD Creation Date: 19-Apr-2018 18:52:17

Channel Processing Parameters

Run 4: Parameters

Parameter	Description	Tool	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	3.42	%
BS	Bit Size	DNMSESSION	Depth Zoned	in
DFD	Drilling Fluid Density	Borehole	1.2	g/cm3
GR_SRC	GR Input Channel Name	TELE900	GAMMA_CPS	

Run 4Depth Zoned Parameters

Parameter	Value	Start (m)	Stop (m)
BS	24	1065.13	1087.99
BS	17.5	1087.99	2131.65

All depth are actual.

Run 5: Parameters

Parameter	Description	Tool	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	5	%
BS	Bit Size	DNMSESSION	17.5	in
DFD	Drilling Fluid Density	Borehole	1.27	g/cm3
GR_SRC	GR Input Channel Name	TELE900	GAMMA_CPS	

Tool Control Parameters

Calibration Report

TELE900 (TeleScope 900) Calibration - Run 4

TELE900 (TeleScope 900) Calibration - Run 4

Primary Equipment :							
Gamma Ray Cartridge			PMGR			223	
GAMMA_SF - Gamma Ray: Blanket							
Master (Time Frame File):		17:50:15 02-Mar-2018					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
Gamma Ray Calibration Gain		Master	1.0000	0.7500	0.8431	1.2500	<div><div></div><div></div><div></div><div></div><div></div></div>

TELE900 (TeleScope 900) Calibration - Run 5

Primary Equipment :							
Gamma Ray Cartridge			PMGR			712	
GAMMA_SF - Gamma Ray: Blanket							
Master (Time Frame File):		13:45:44 19-Mar-2018					
Measurement	Unit	Phase	Nominal	Low Limit	Actual	High Limit	<div><div></div><div></div></div>
Gamma Ray Calibration Gain		Master	1.0000	0.7500	0.9608	1.2500	<div><div></div><div></div><div></div><div></div><div></div></div>

Company: Trias Westland B.V.

Well: NLW-GT-02-S1

Field: Naaldwijk

Rig Name: KCA Deutag T-207

Country: The Netherlands



MWD - Gamma Ray

Schlumberger

Recorded Mode, Composite