

MWD - Gamma Ray

Schlumberger

Recorded Mode, Composite

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

Longitude: 4° 14' 22.357" E

UWID: 17HOL0035

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

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

Index Types: True Vertical Depth

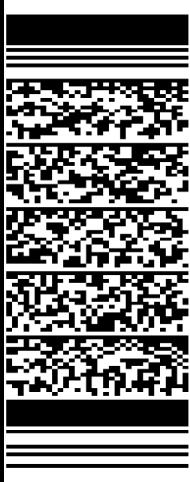
Index Scales: 1:200, 1:1000

Depth Source: Driller's Depth

Depth Sensor: 3rd Party Depth

Print Type: Final

Spud Date: 08-Mar-2018



Disclaimer

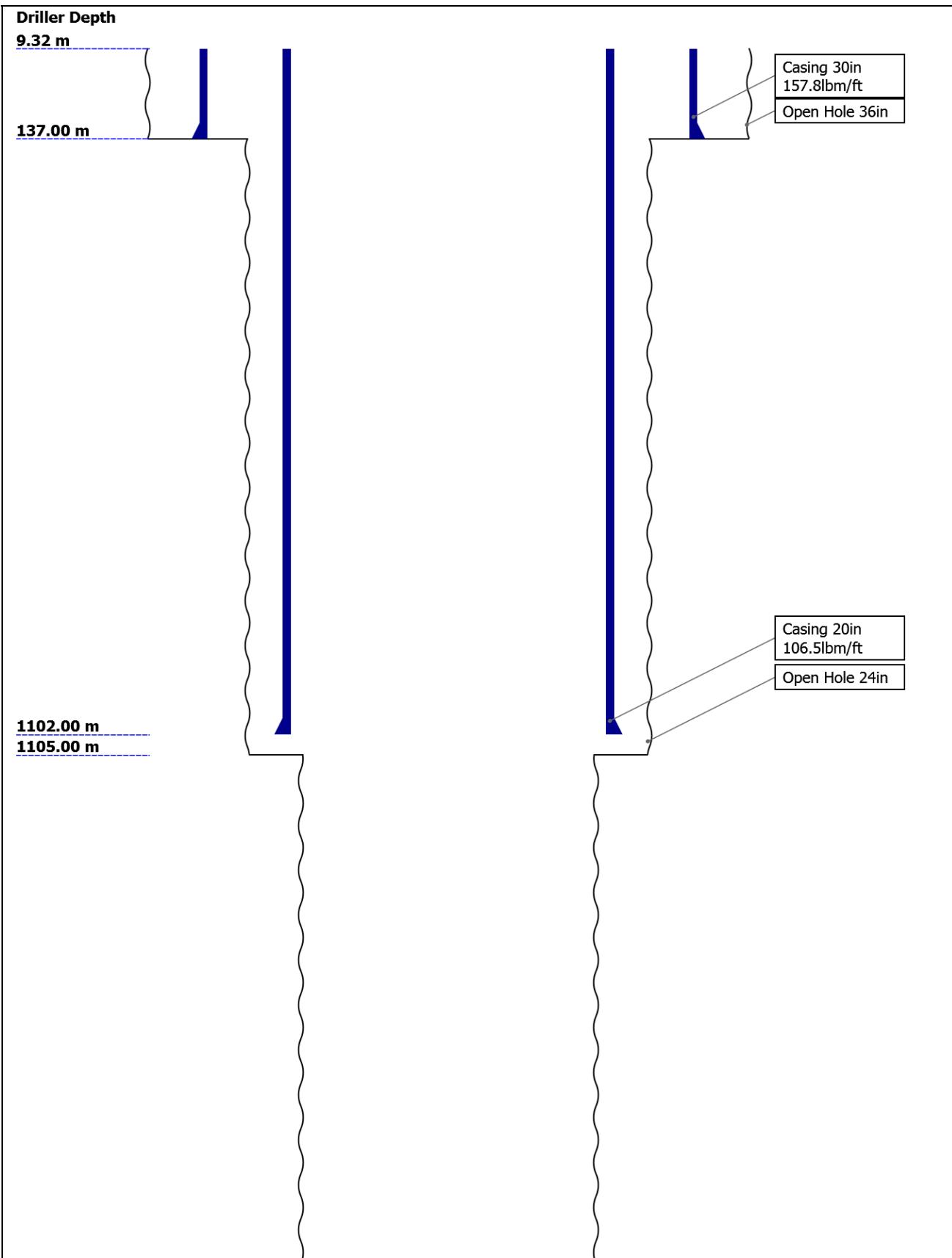
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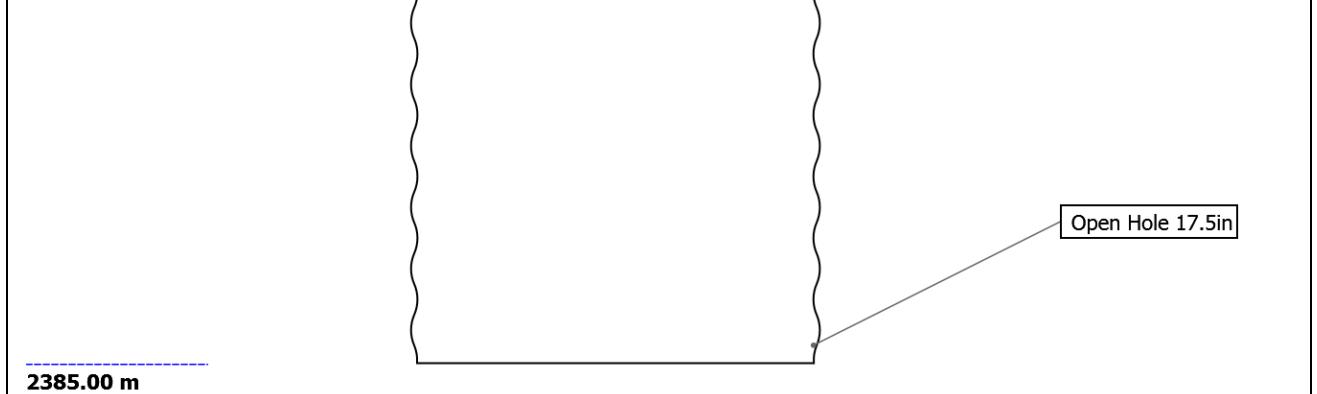
Contents

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





Borehole Size/Casing Record

Bit						
Bit Size (in)	36	24	17.5			
Top Driller (m)	9.32	137	1105			
Bottom Driller (m)	137	1105	2385			
Casing						
Size (in)	30	20				
Weight (lbm/ft)	157.8	106.5				
Inner Diameter (in)	29.021	19				
Grade	X52	K55				
Top Driller (m)	9.32	9.32				
Bottom Driller (m)	137	1102				

Operational Run Summary

Parameter (unit)	Run 4	Run 5				
Date Log Started	06-Apr-2018	13-Apr-2018				
Time Log Started	15:01:35	10:30:25				
Date Log Finished	13-Apr-2018	17-Apr-2018				
Time Log Finished	09:39:39	09:51:19				
Bit Size (in)	17.500	17.500				
Bit Start Depth (m)	1264.00	2186.00				
Bit Stop Depth (m)	2186.00	2385.00				
Top Log Interval (m)	1081.89	2175.05				
Bottom Log Interval (m)	2175.05	2374.85				
Max Hole Deviation (deg)	28.89	33.86				
Azimuth of Max Deviation (deg)	99.89	108.96				
Logging Unit Number	N/A	N/A				
Logging Unit Location						
Recorded By	M. Ushakov	M. Ushakov				
Witnessed By	P. Gwalter	P. Gwalter				
Service Order Number	17HOL0035	17HOL0035				

Parameter(unit)	Run 4	Run 5			
Fluid Type	Water	Water			
Fluid Name	KCl Polymer	KCl Polymer			
Max Recorded Temperatures (degC)	74.5	82.4			
Source of Sample	Active Tank	Active Tank			
Salinity (ppm)	73311.97	115375			
Density (g/cm3)	1.2	1.27			
Funnel Viscosity (s)	55	50			
Fluid Loss (cm3)	4	4.5			
PH	9.5	9.5			
Source RMF	Calculated	Calculated			
RMC	Calculated	Calculated			
RM @ Meas Temp (ohm.m@degC)	0.1 @ 20	0.1 @ 20			
RMF @ Meas Temp (ohm.m@degC)	0.08 @ 20	0.07 @ 20			
RMC @ Meas Temp (ohm.m@degC)	0.16 @ 20	0.14 @ 20			
RM @ BHT (ohm.m@degC)	0.04 @ 74.5	0.04 @ 82.4			
RMF @ BHT (ohm.m@degC)	0.03 @ 74.5	0.03 @ 82.4			
RMC @ BHT (ohm.m@degC)	0.07 @ 74.5	0.06 @ 82.4			
Total Solid (%)					
High Gravity Solids (%)					

Remarks and Equipment Summary

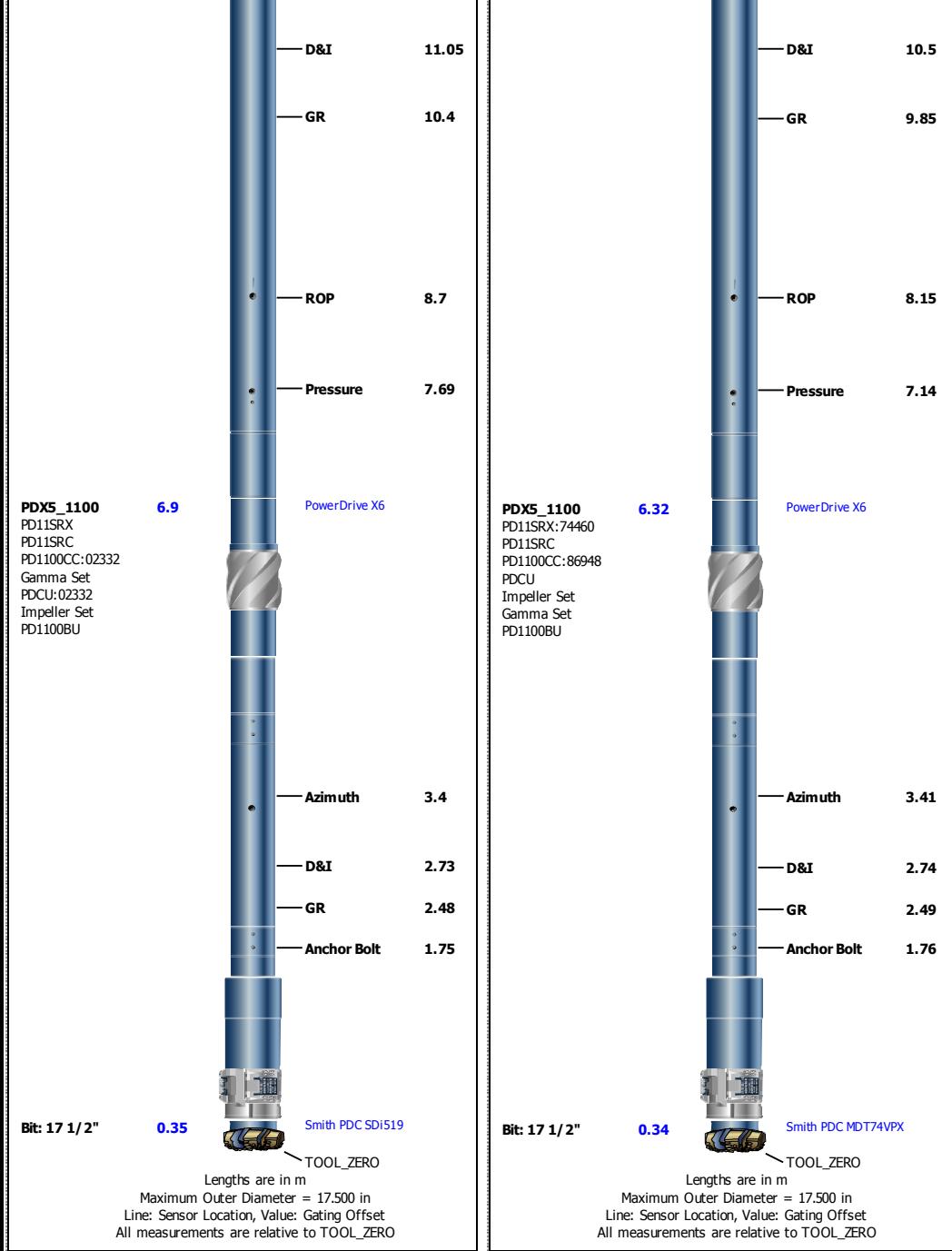
All depths referenced to driller's depth. See EOWR for depth tracking details.

All data from tool memory. All data acquired while drilling except where noted.

Gamma Ray measurement is environmentally corrected for mud weight, bit size, collar thickness and Potassium content.

Run 4: Remarks	Run 5: Remarks
Run 4 POOH at 2186 m to change BHA.	Run 5 and 17 1/2 in. section TD at 2385 m.
Data acquired while reaming down from 2108 to 2110.9 m bit depth due to unit power shut do	

Run 4: Toolstring		Run 5: Toolstring	
Equip name TELE900:E6072 MSSU900:68362 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	Length 15.37	Equip name Stab: 9 1/2":OWS -STAB-9282	Length 17.21
MP name TeleScope	Offset	X/O: 9 1/2":OWS- XOS-3351	MP name 17 7/32 in. Non-Mag Stab



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	1297.47	11.17	117.49	27.00	1293.00	197.00	-66.00	184.00	197.00	109.00	0.30	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		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			V14.0		
PMCR		TeleScope - M10 Gamma Ray Assembly						8.1.99839.3100			V14.0		

Composite Summary

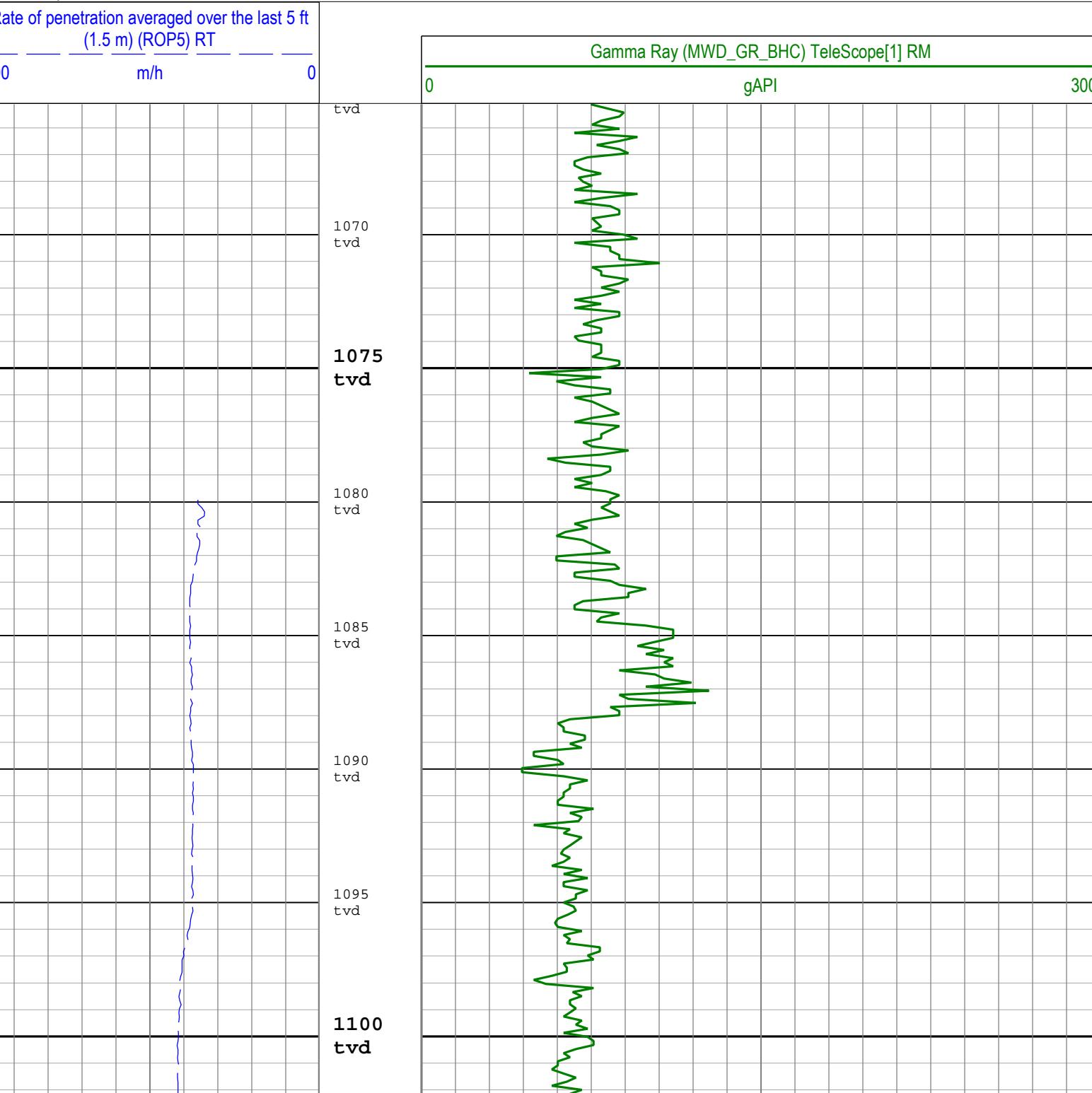
Run Name	Pass Objective	Direction	Top	Bottom	Start	Stop	Include Parallel Data
Run 4	Drilling	Down	1263.70 m	2185.64 m	06-Apr-2018 15:01:35	13-Apr-2018 09:39:39	Yes
Run 4	Ream Down 1	Down	1092.33 m	1264.01 m	07-Apr-2018 08:59:11	07-Apr-2018 16:00:37	Yes
Run 5	Ream Down 1	Down	2174.34 m	2185.64 m	14-Apr-2018 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

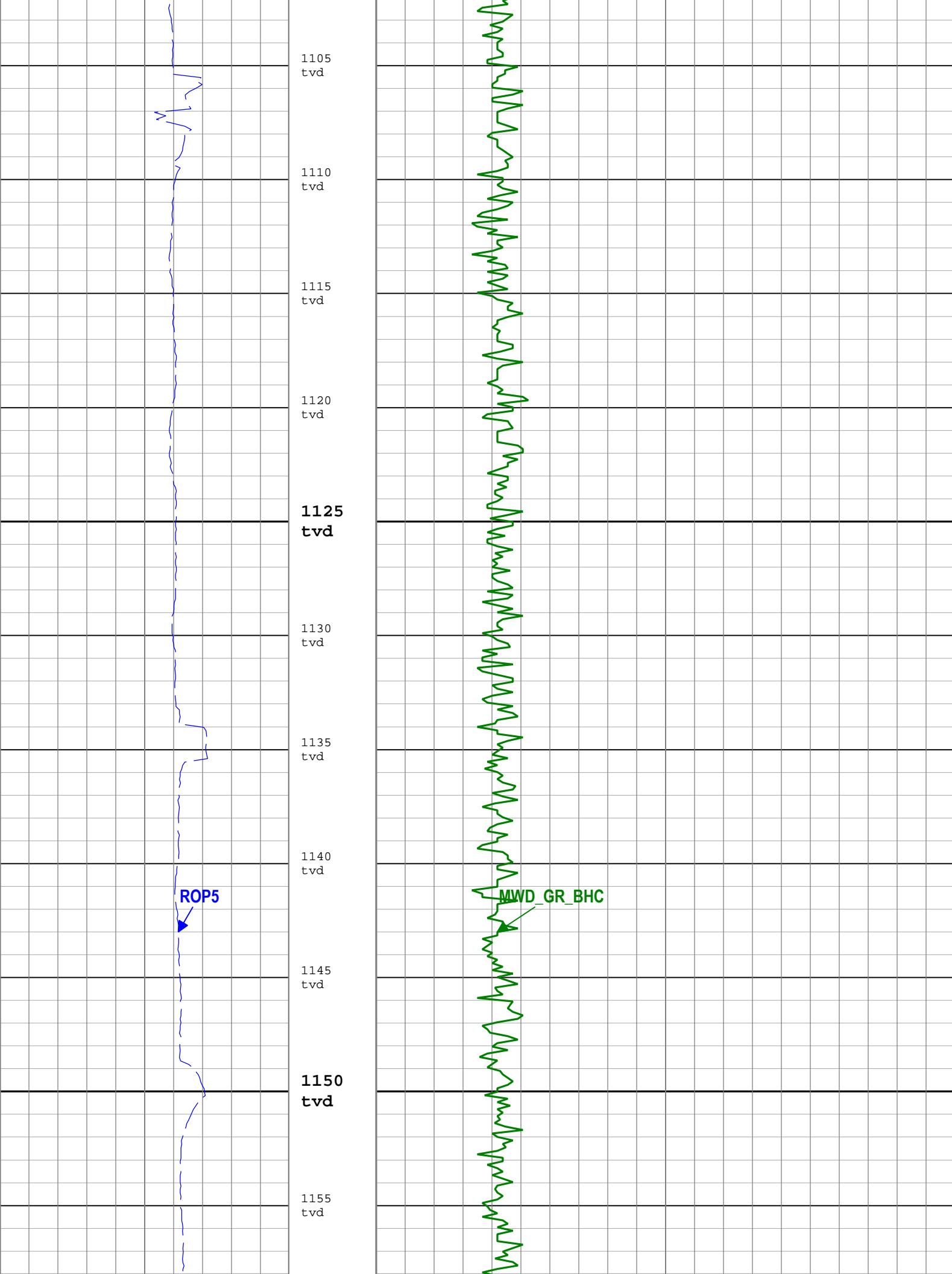
All depths are referenced to toolstring zero

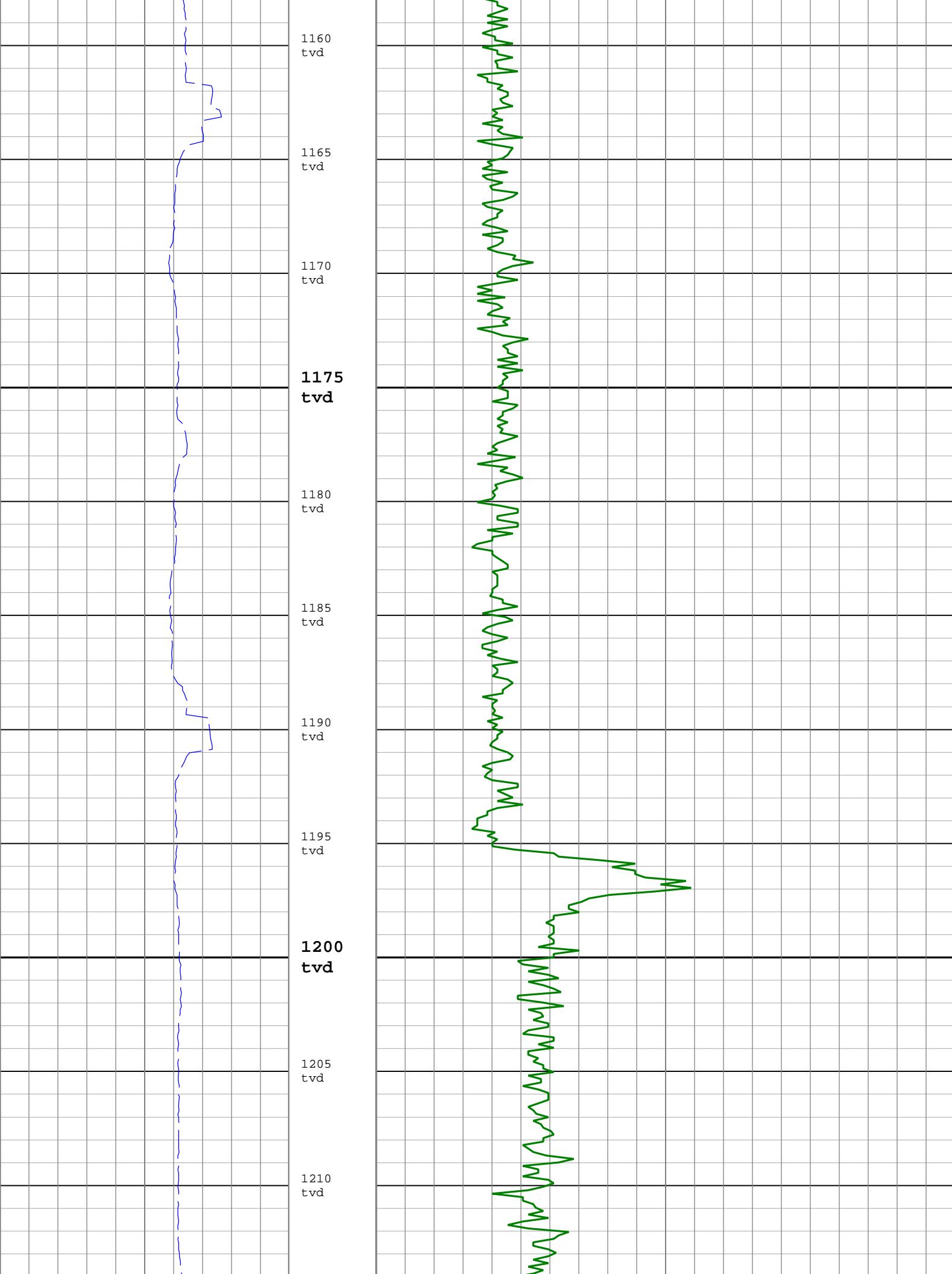
Log

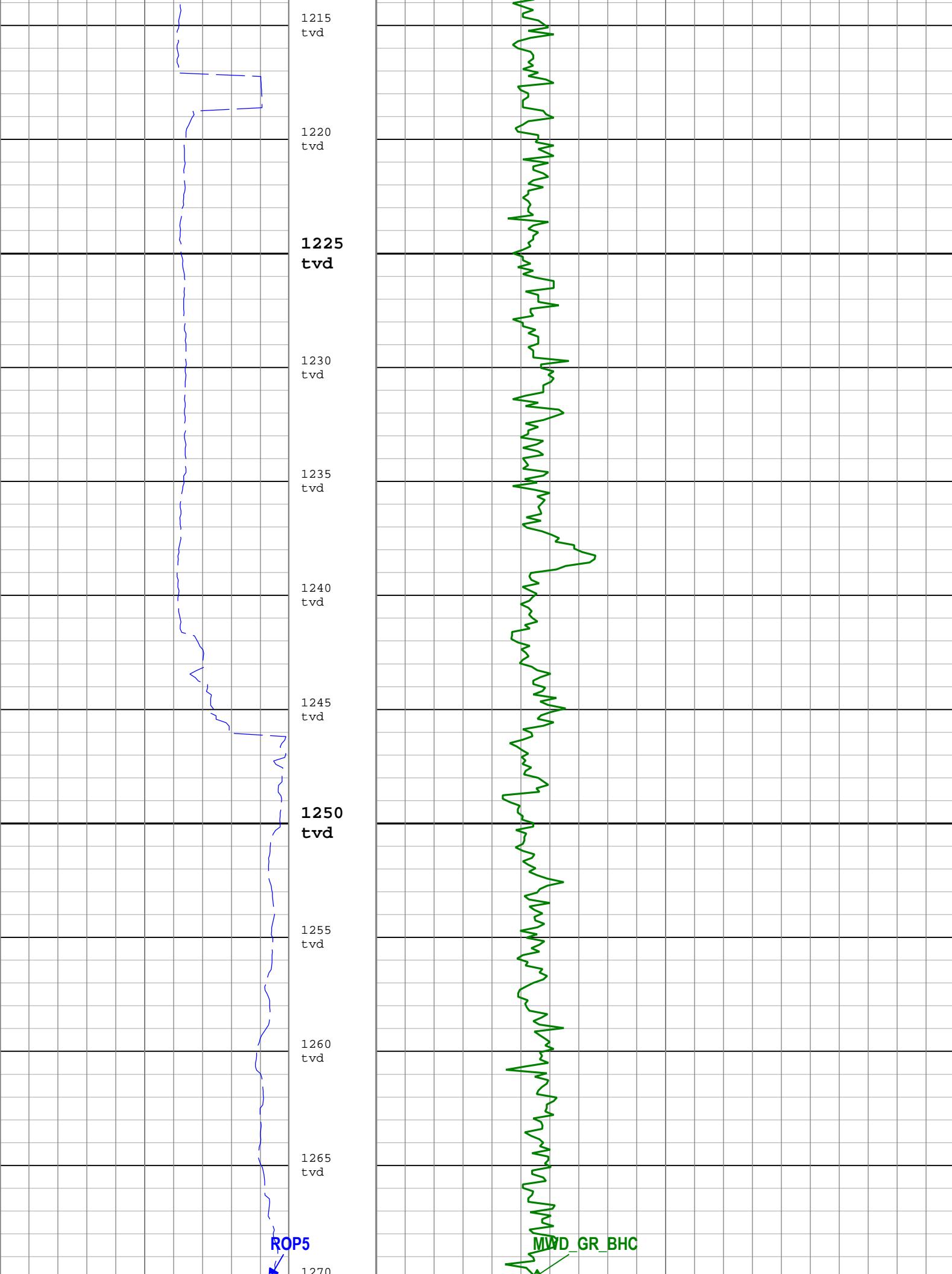
Company:Trias Westland B.V. Well:NLW-GT-02-S1
17.5 in. Section Composite:S108

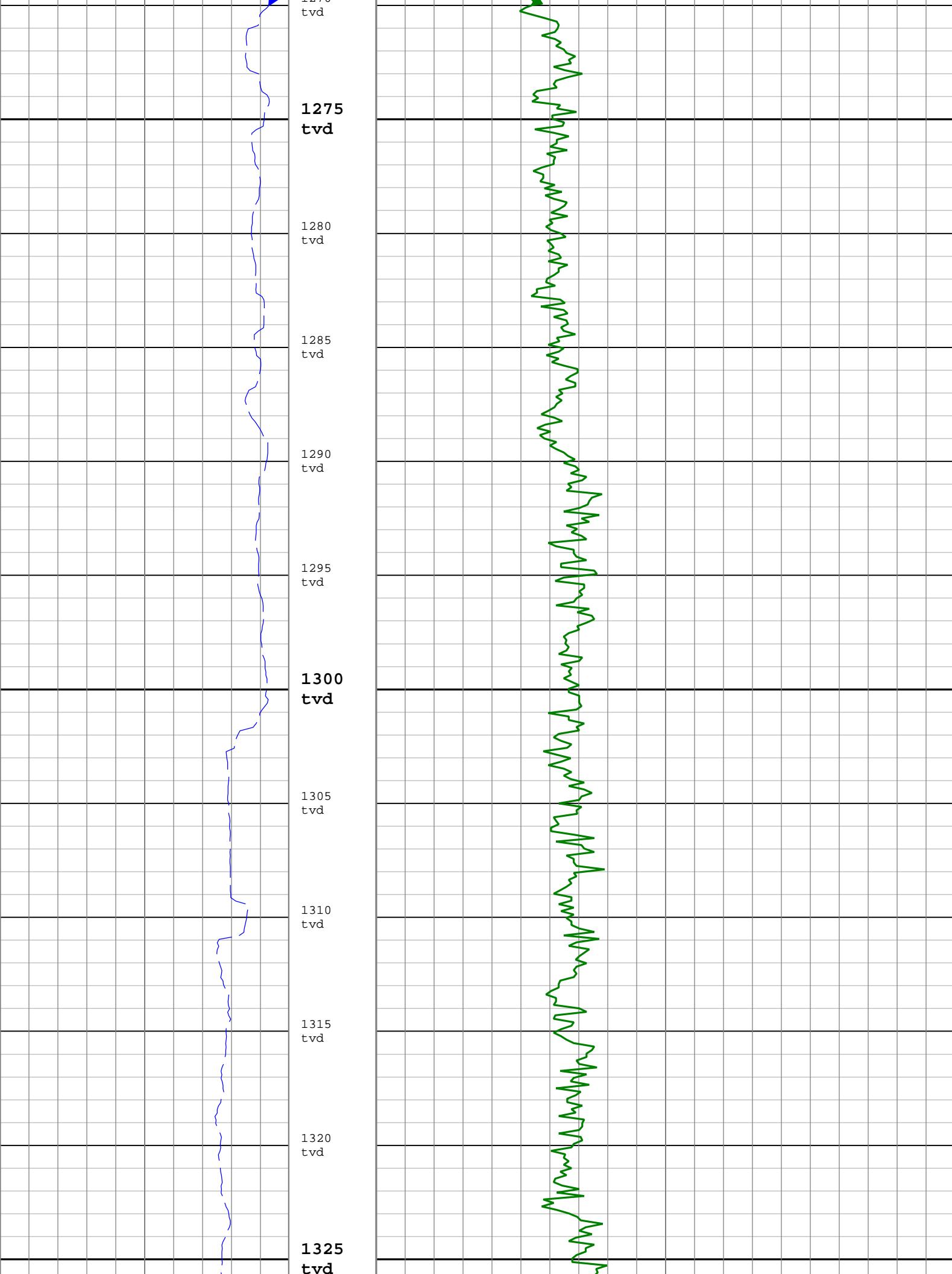
Description: TeleScope Gamma Ray Depth RT Format: Log (GR MWD and PD no ticks) Index Scale: 1:200 Index Unit: m Index Type: TVD Creation Date: 19-Apr-2018 18:52:09

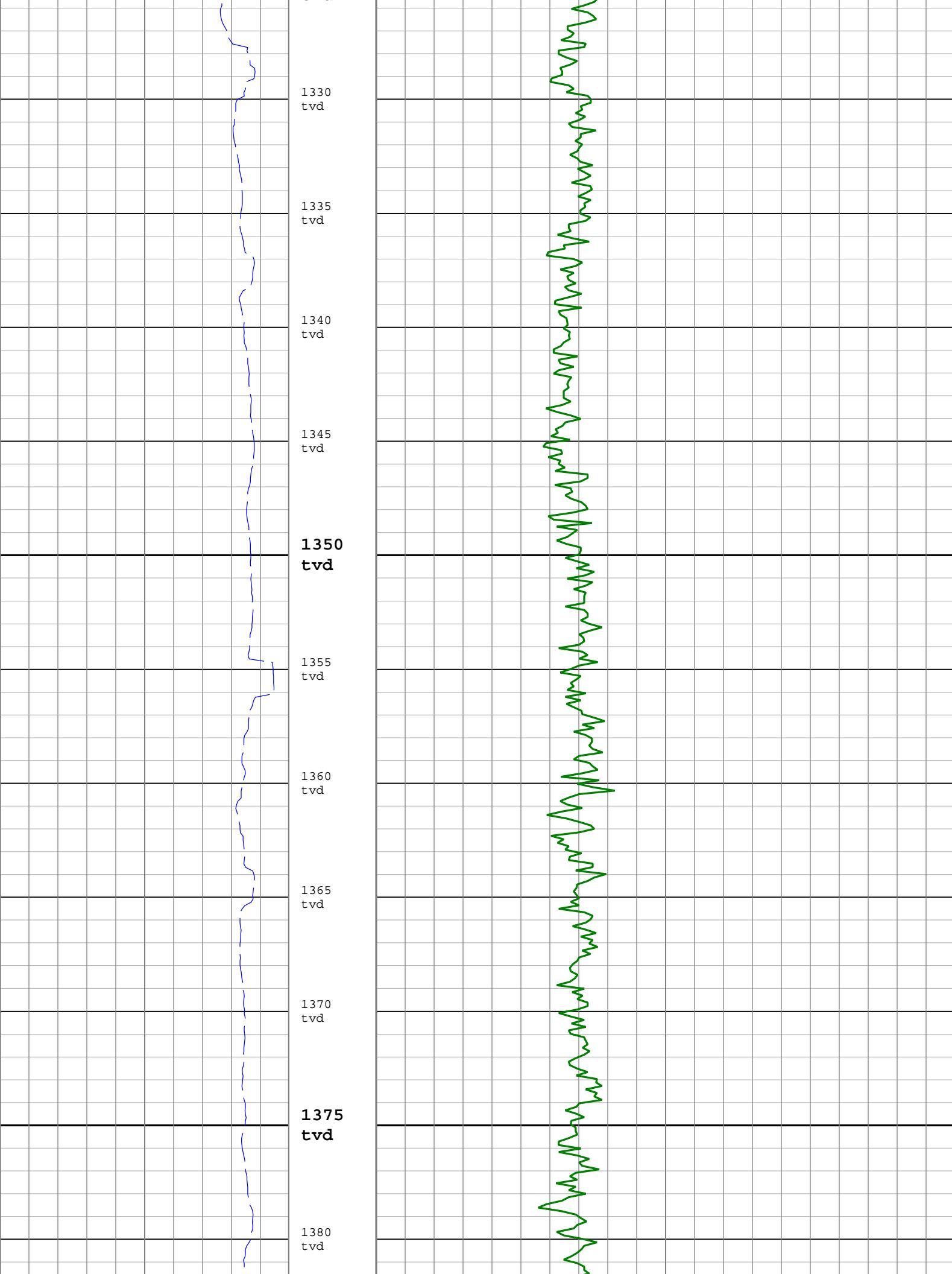


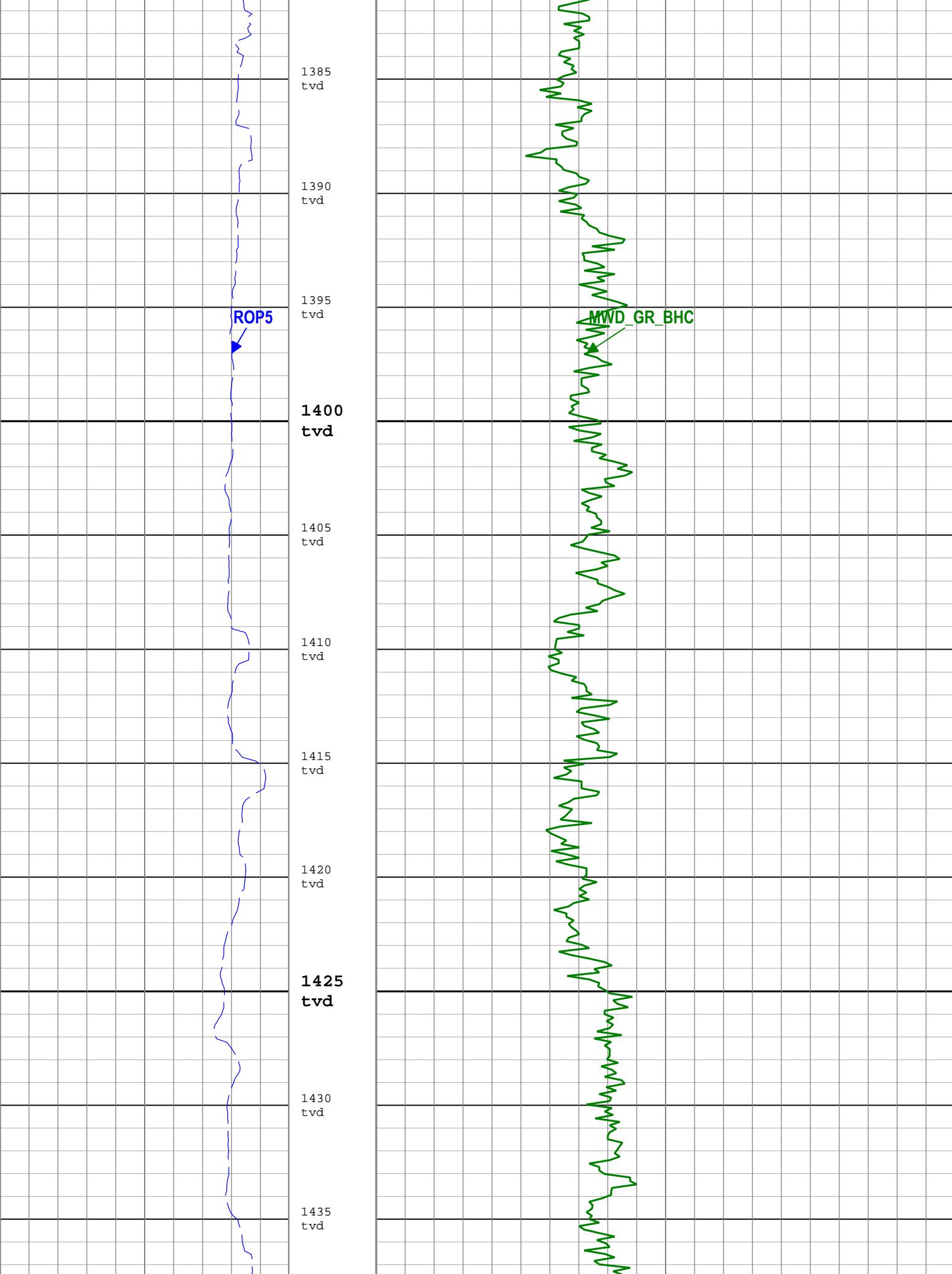


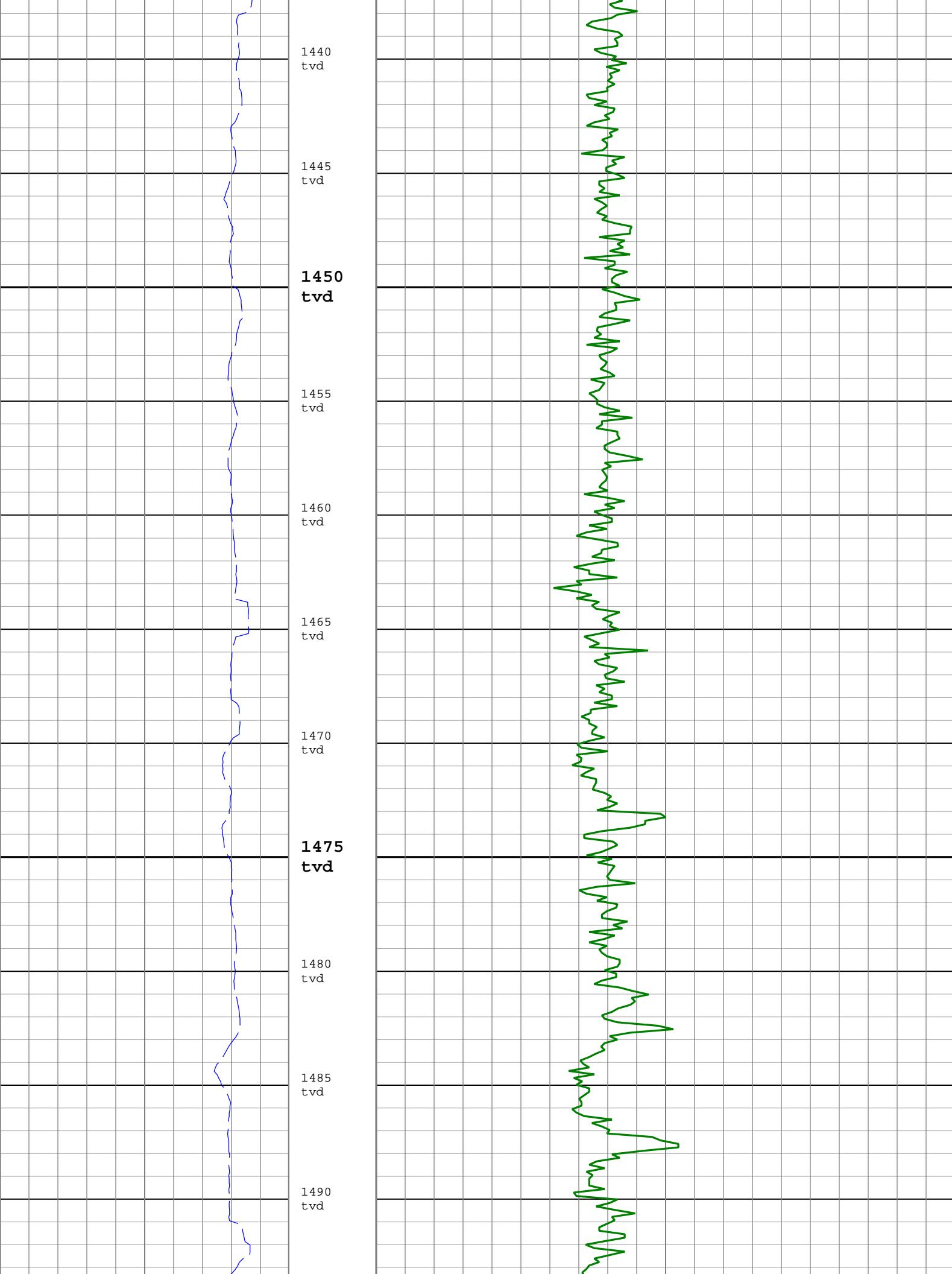


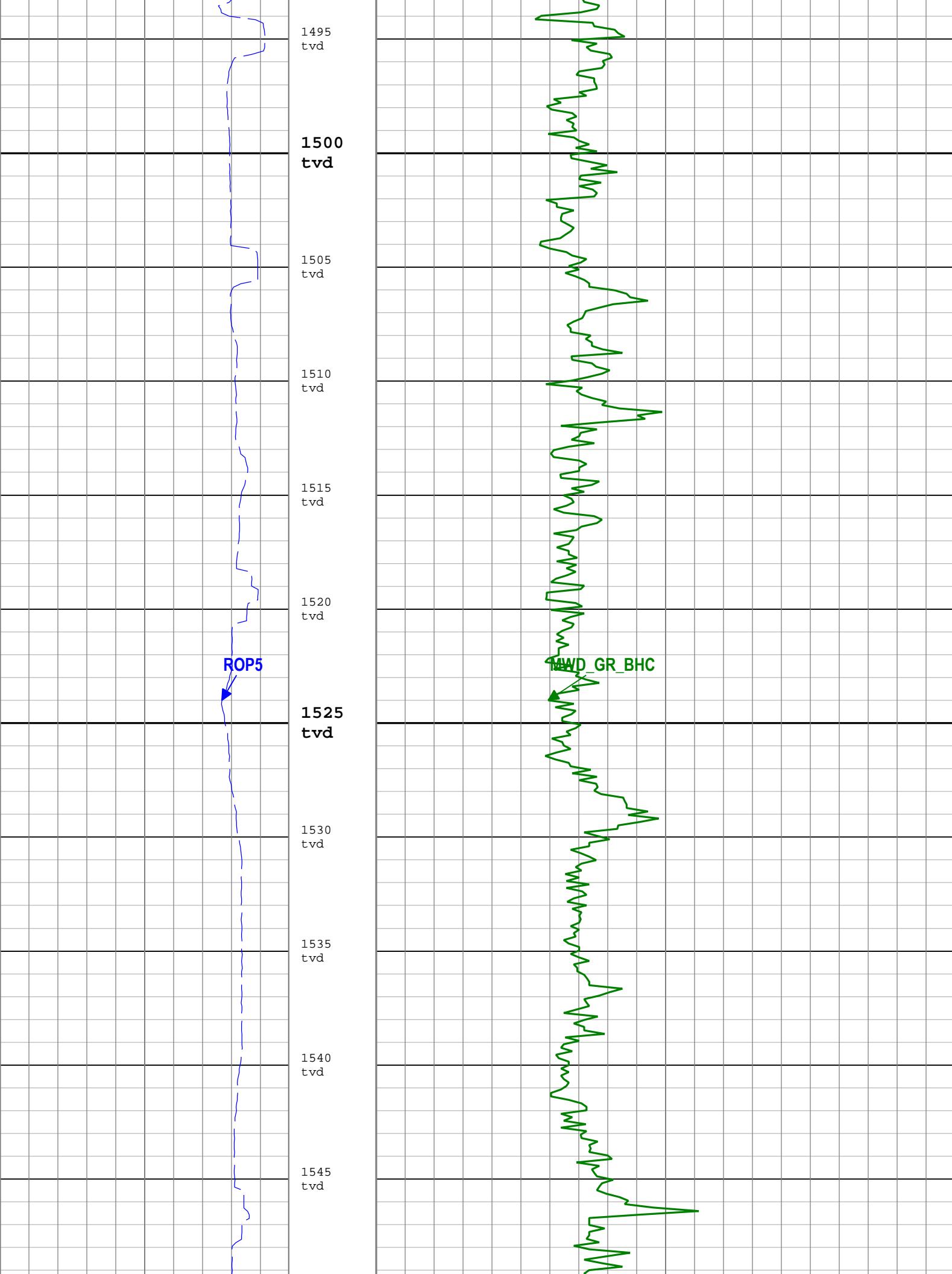


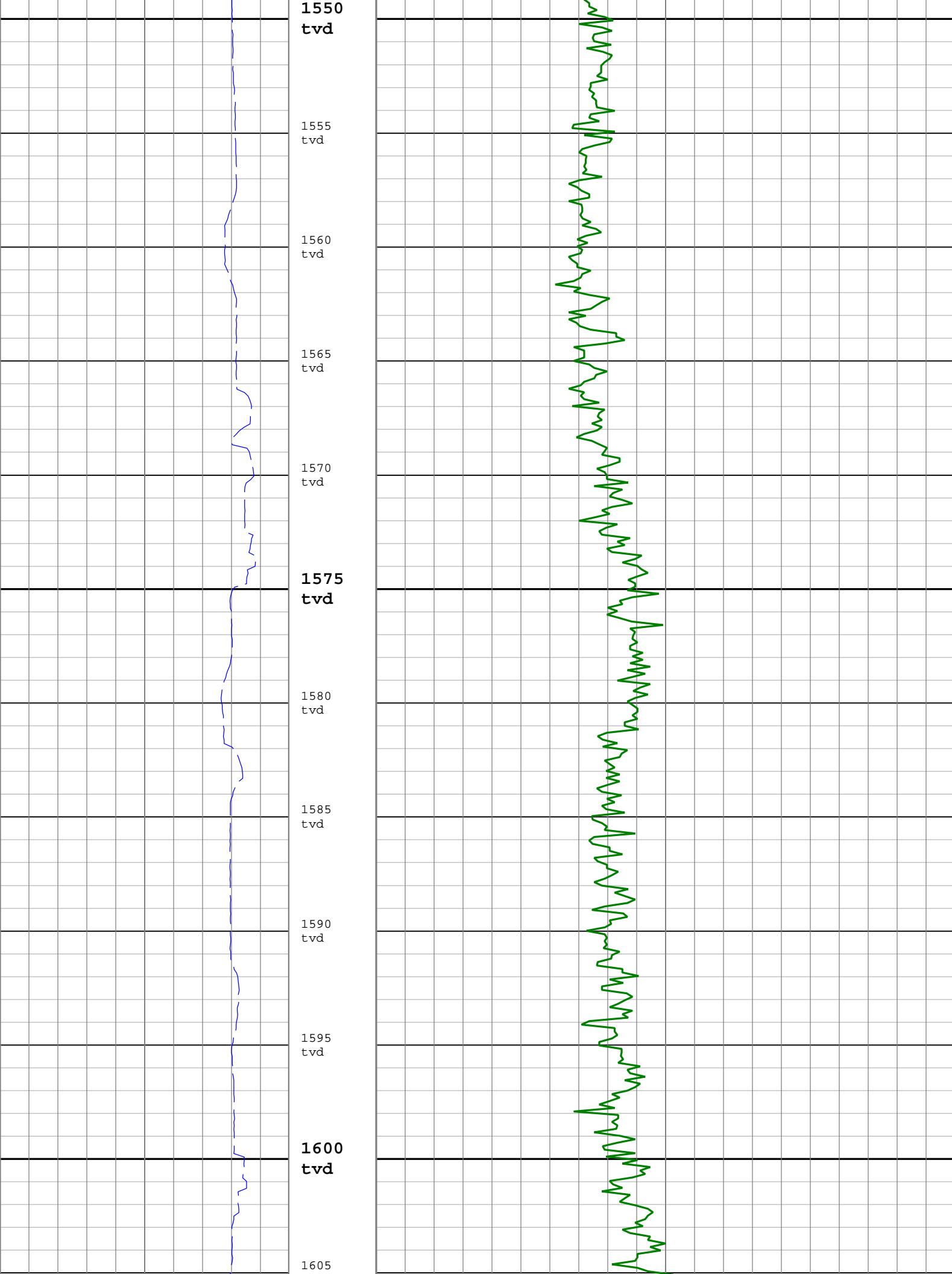


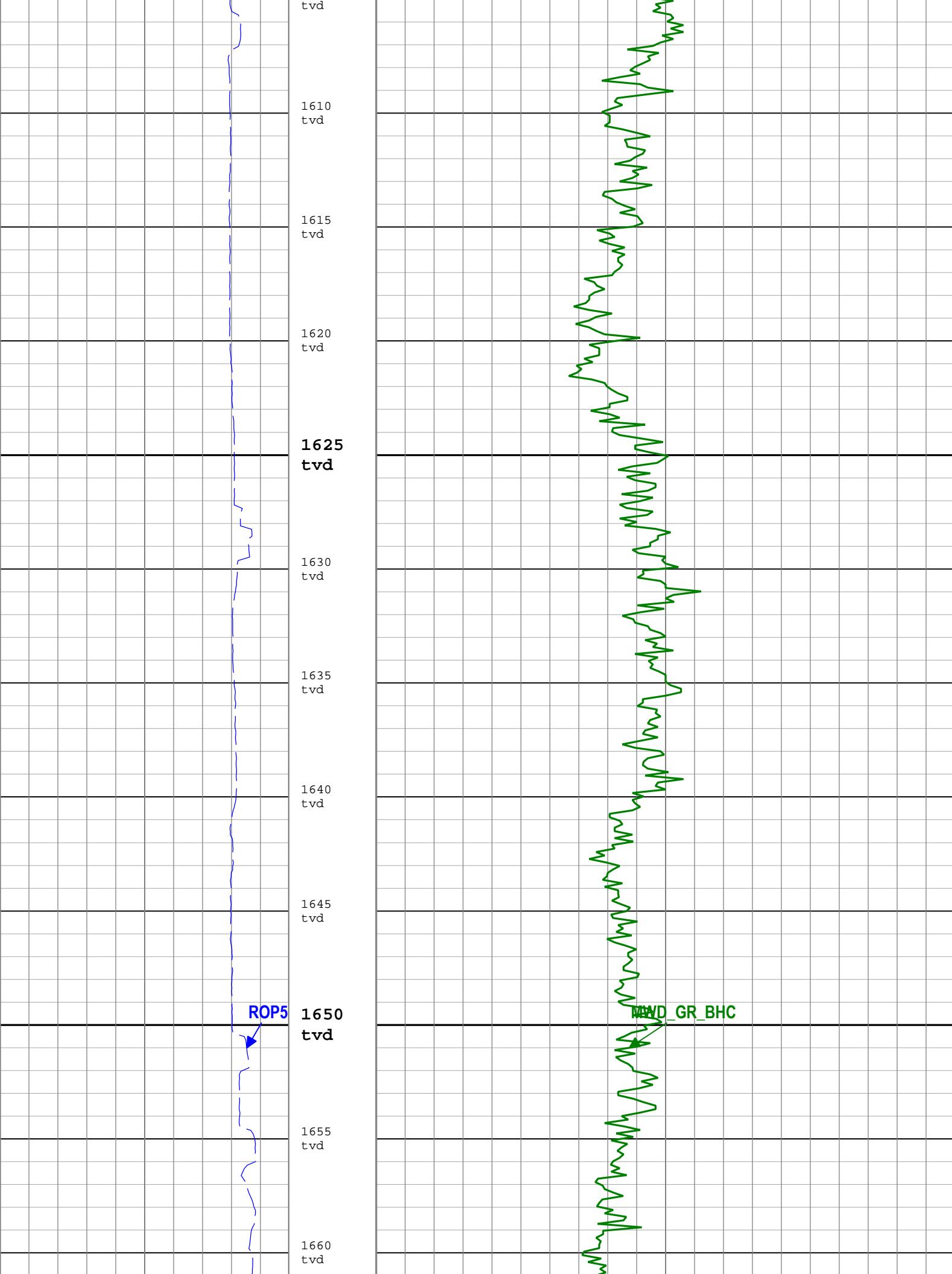


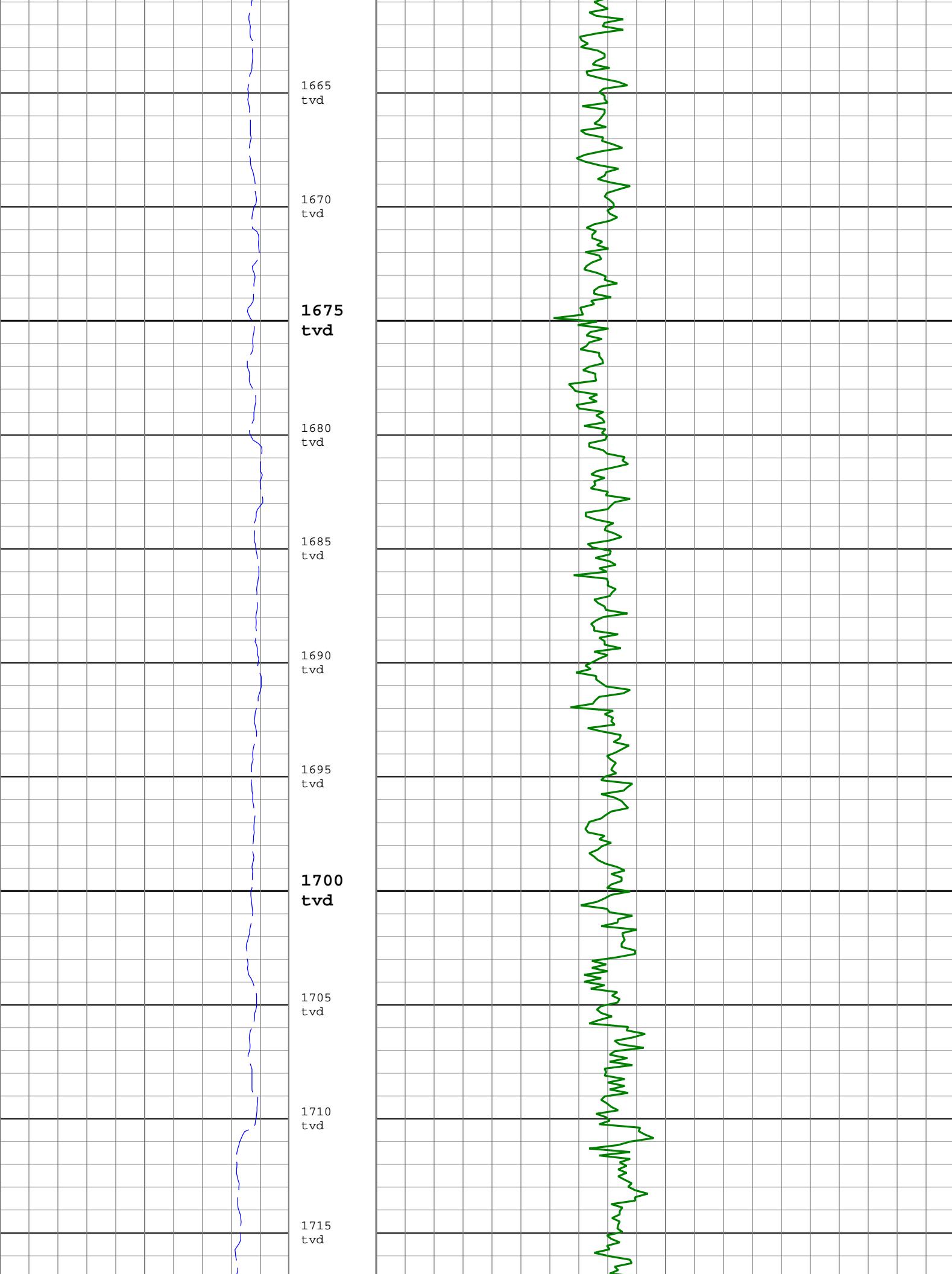


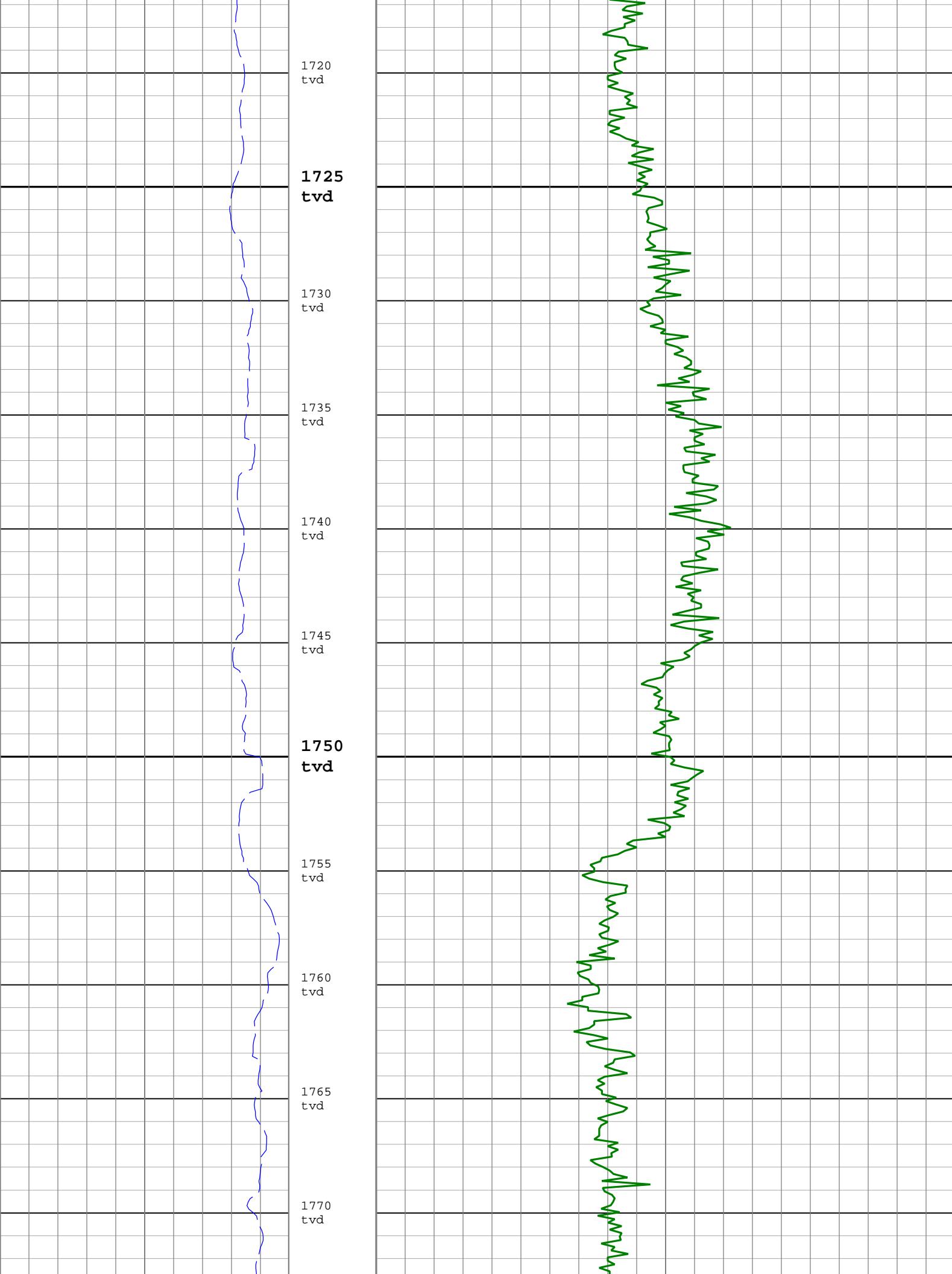


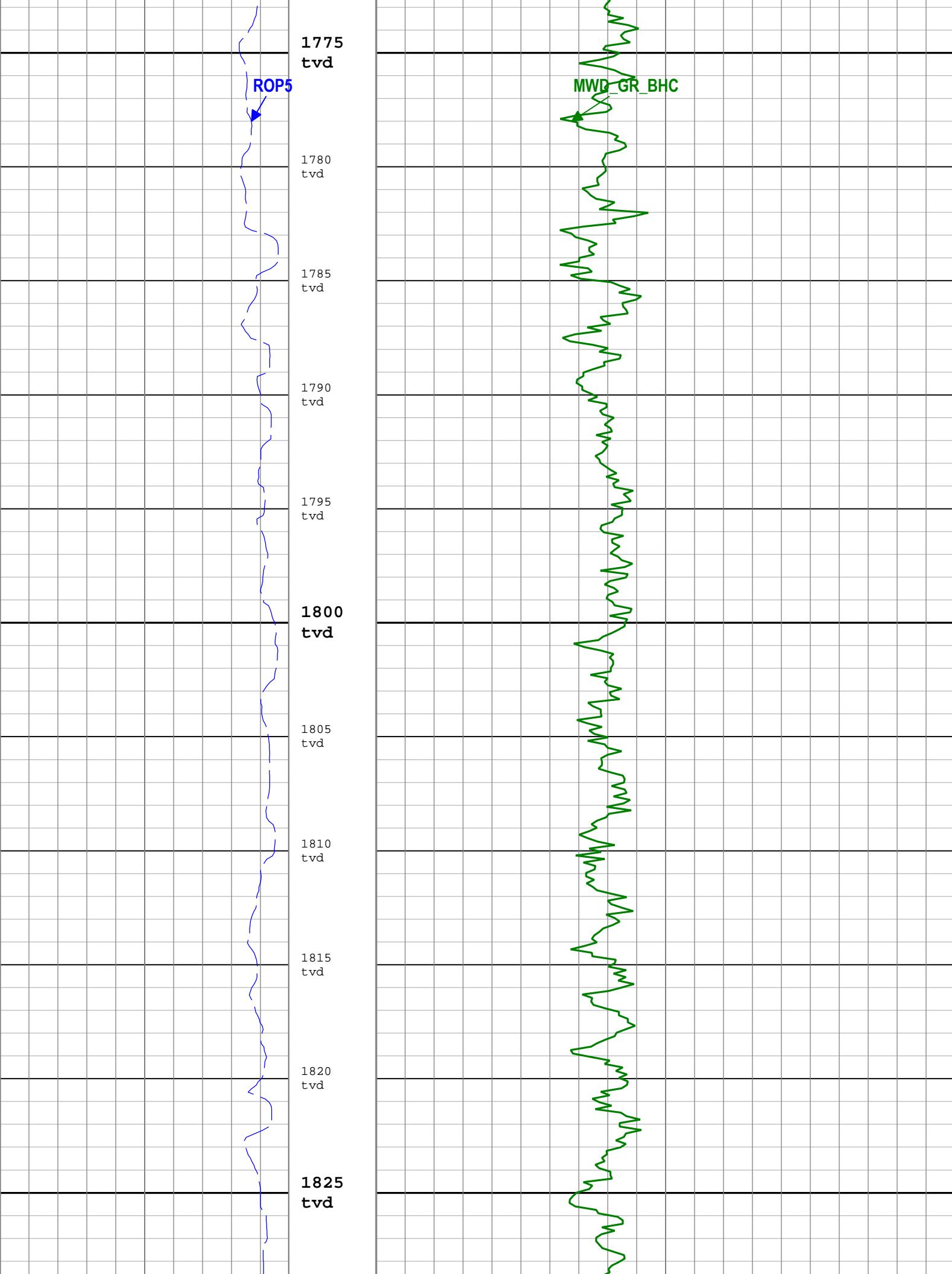


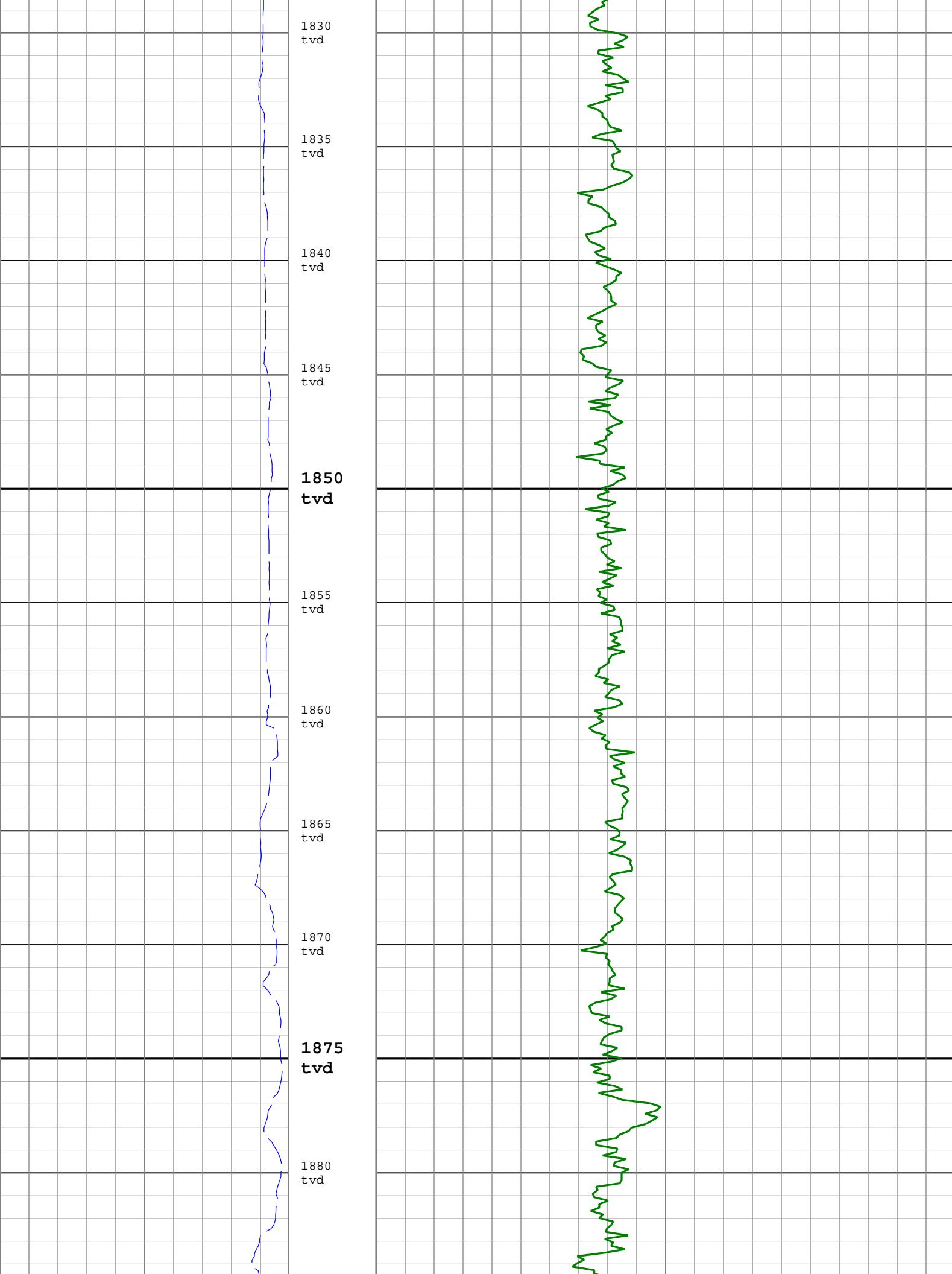


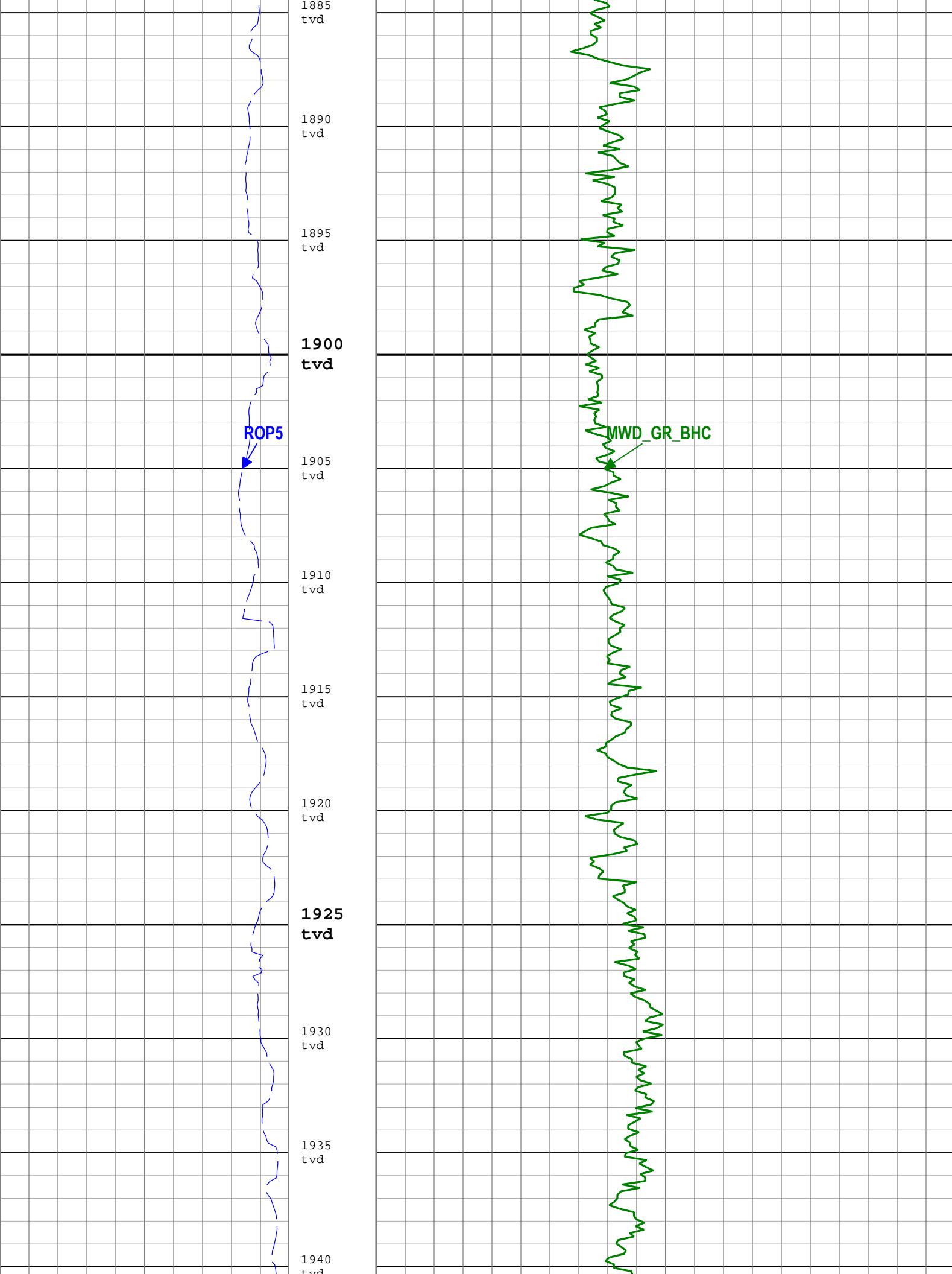


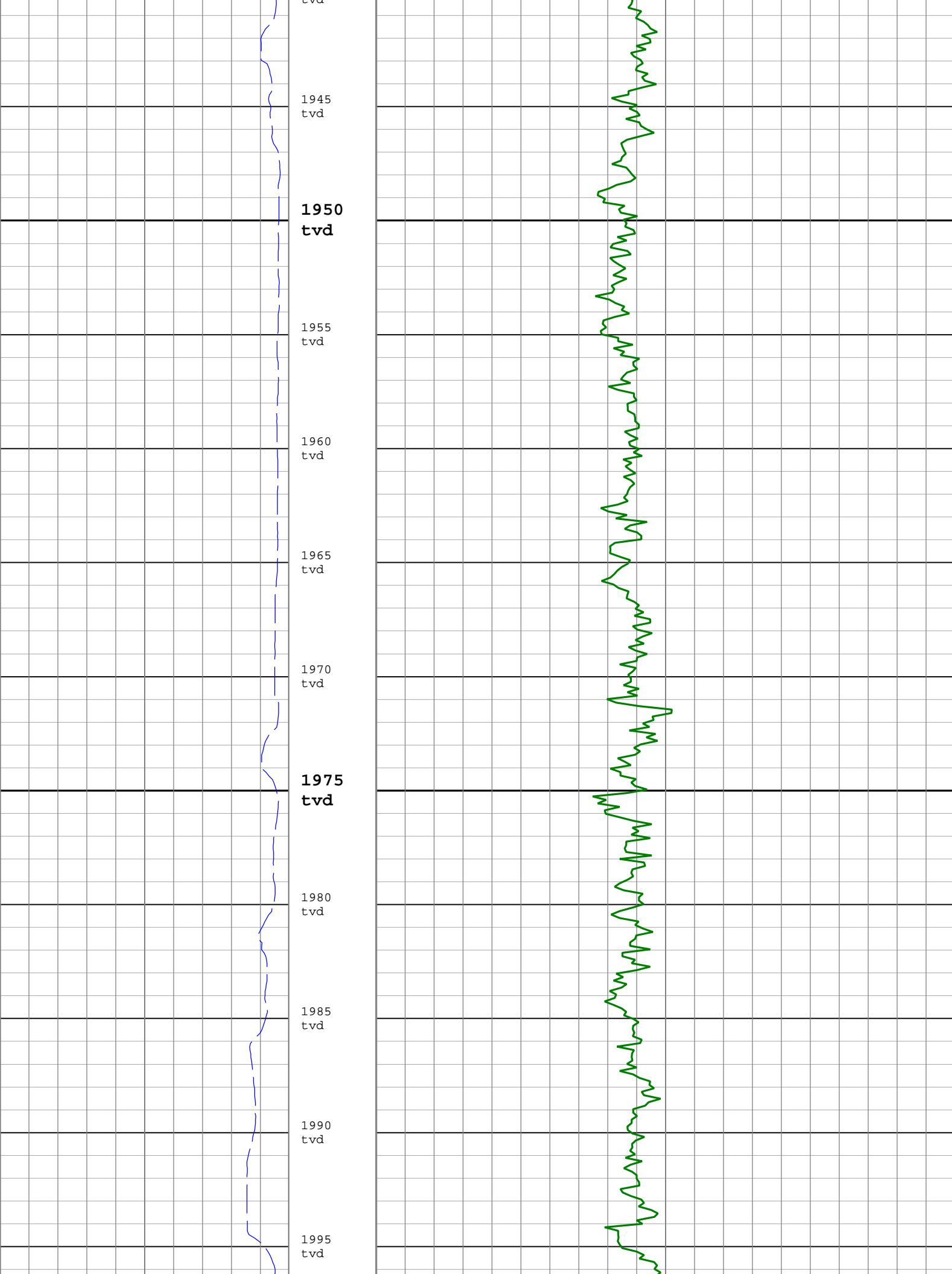


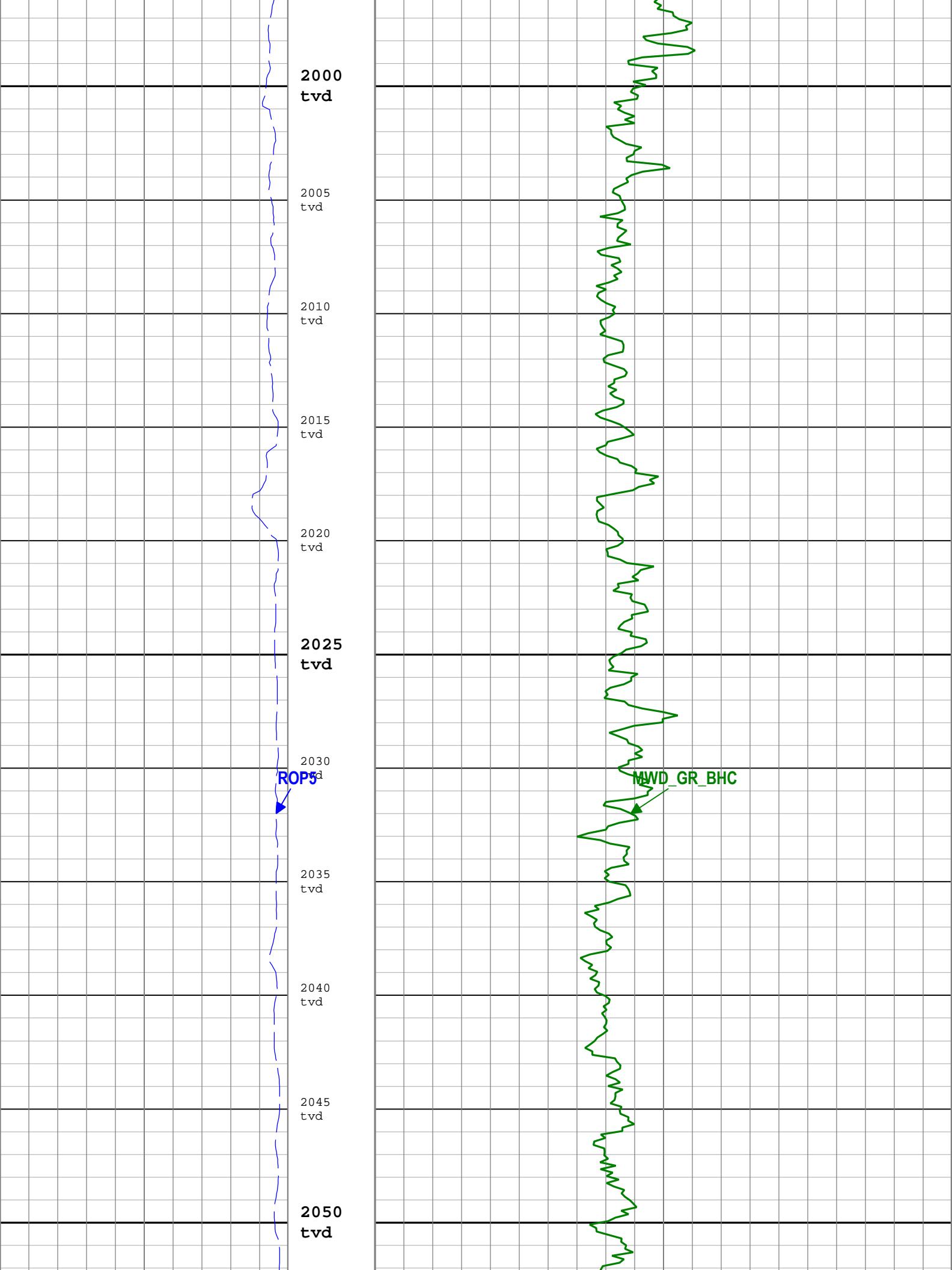


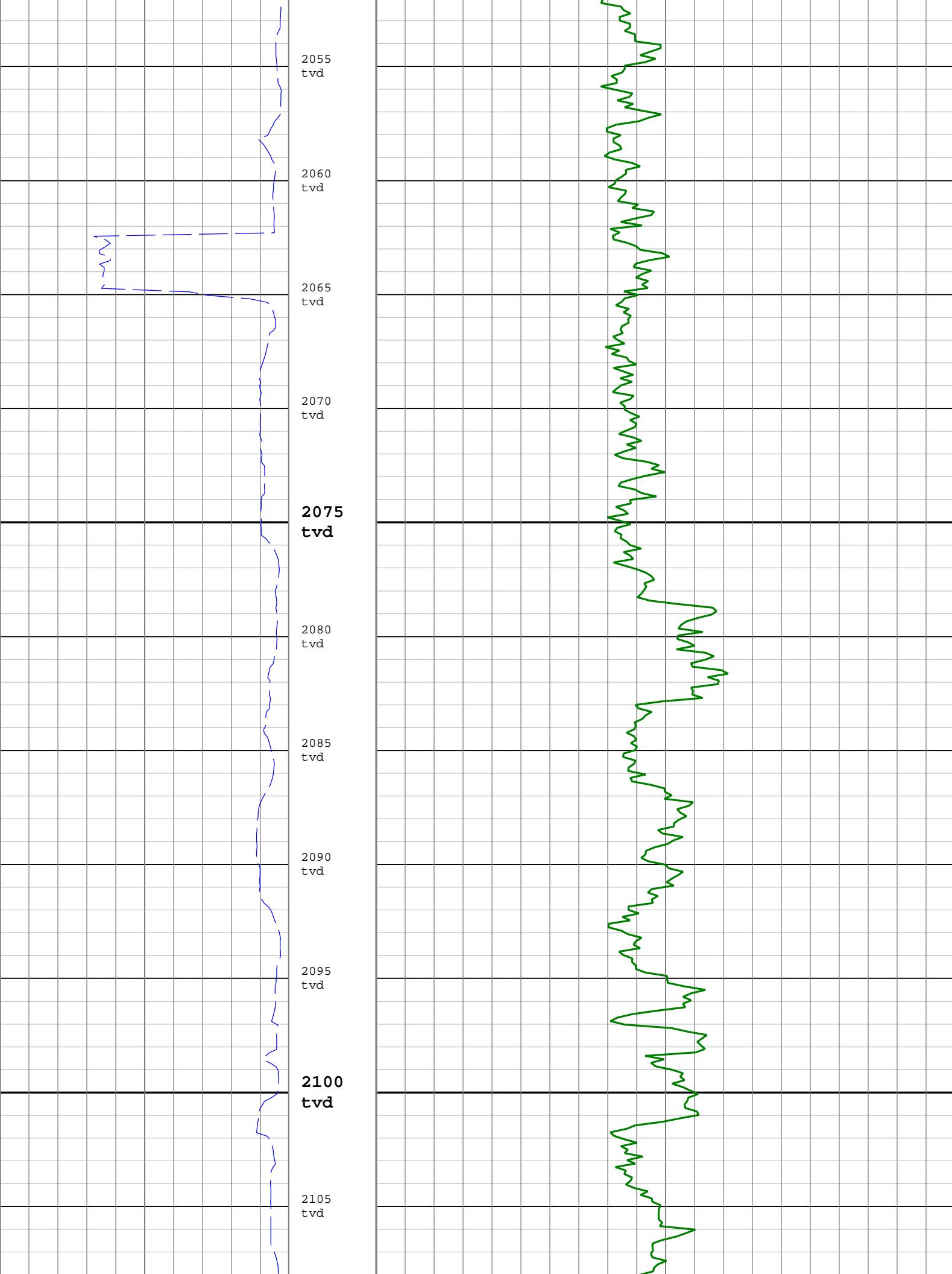


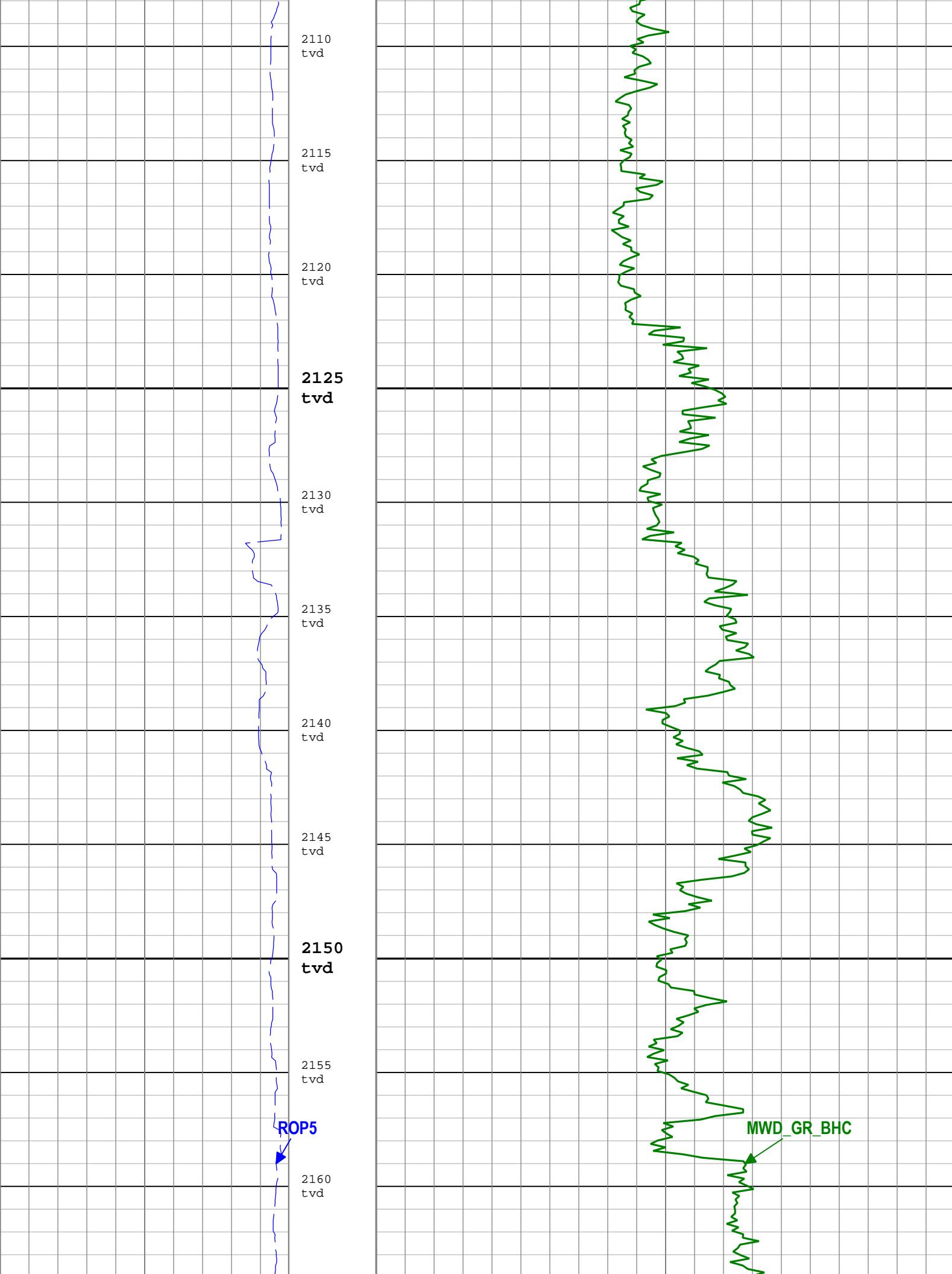


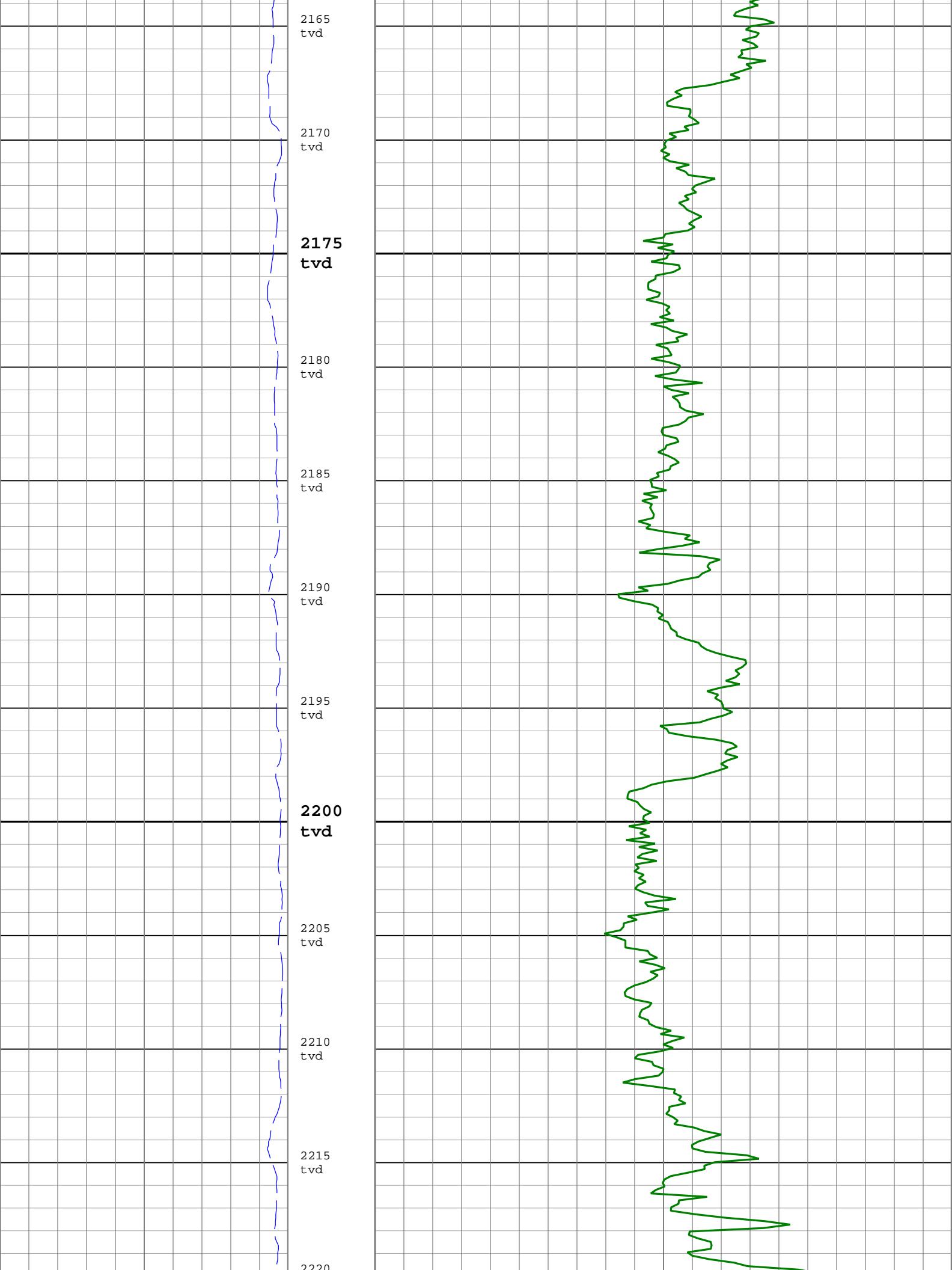


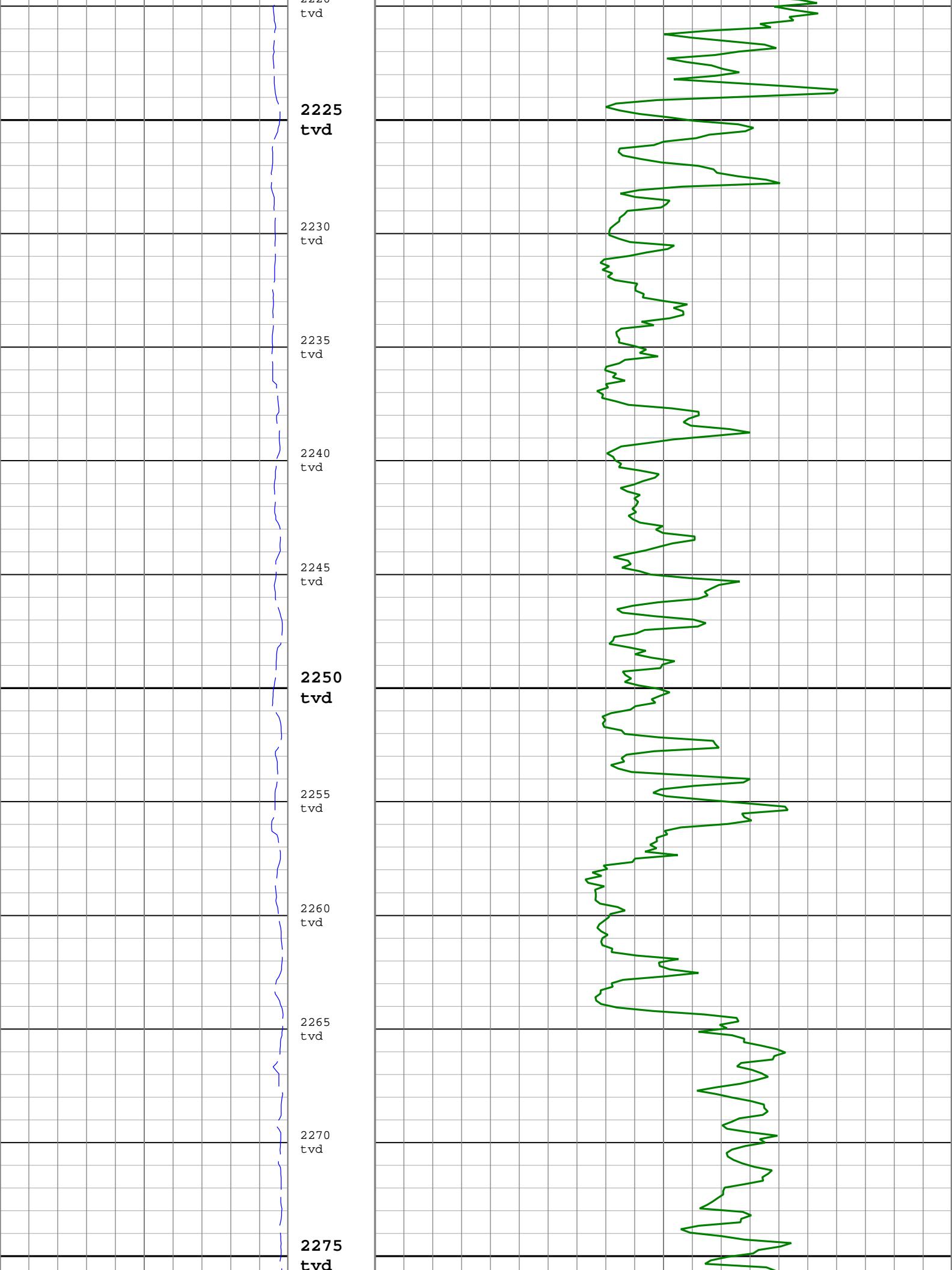


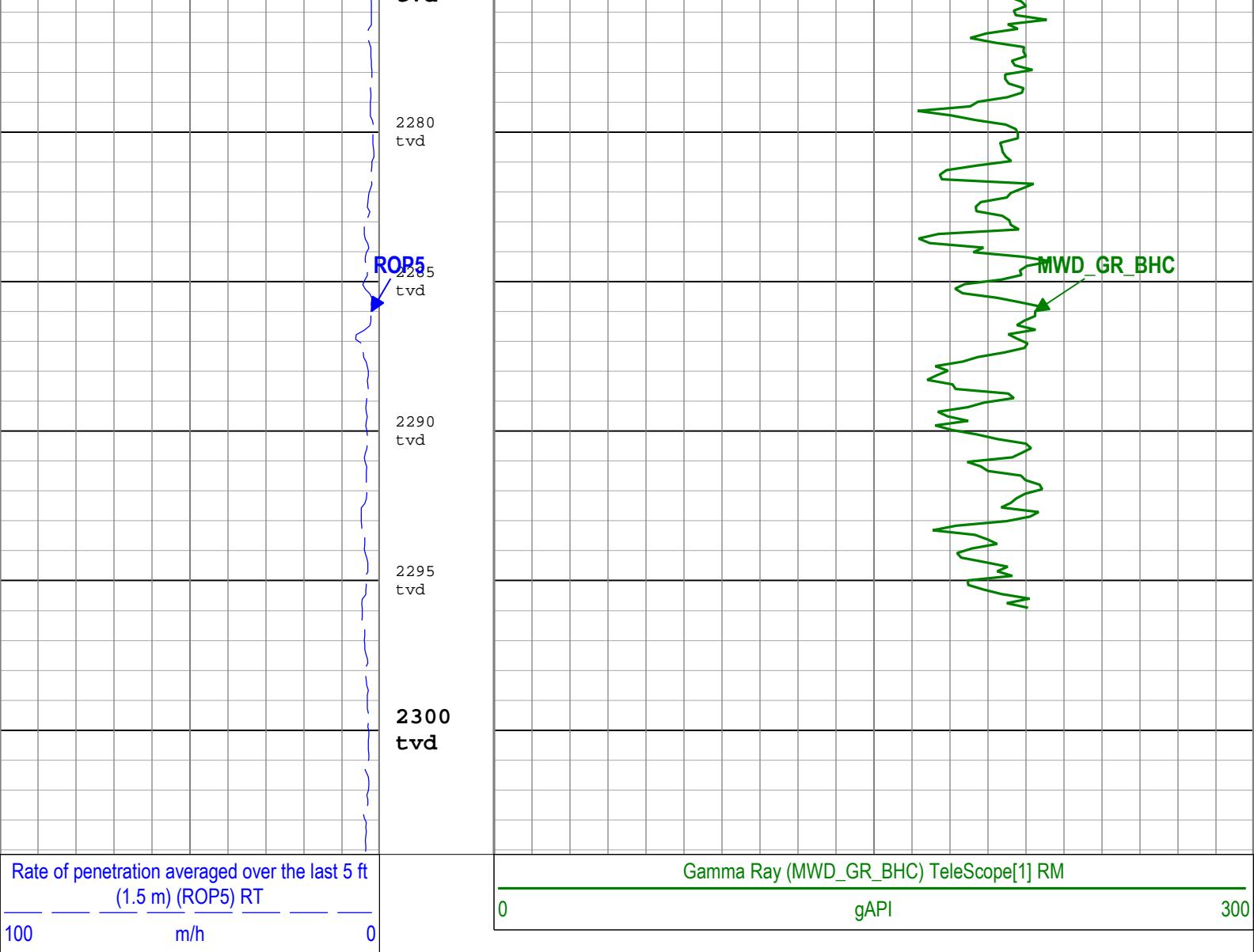












Description: TeleScope Gamma Ray Depth RT Format: Log (GR MWD and PD no ticks) Index Scale: 1:200 Index Unit: m Index Type: TVD Creation Date: 19-Apr-2018 18:52:09

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

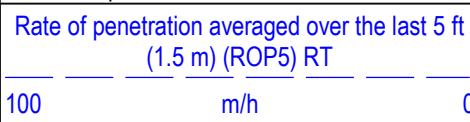
Log

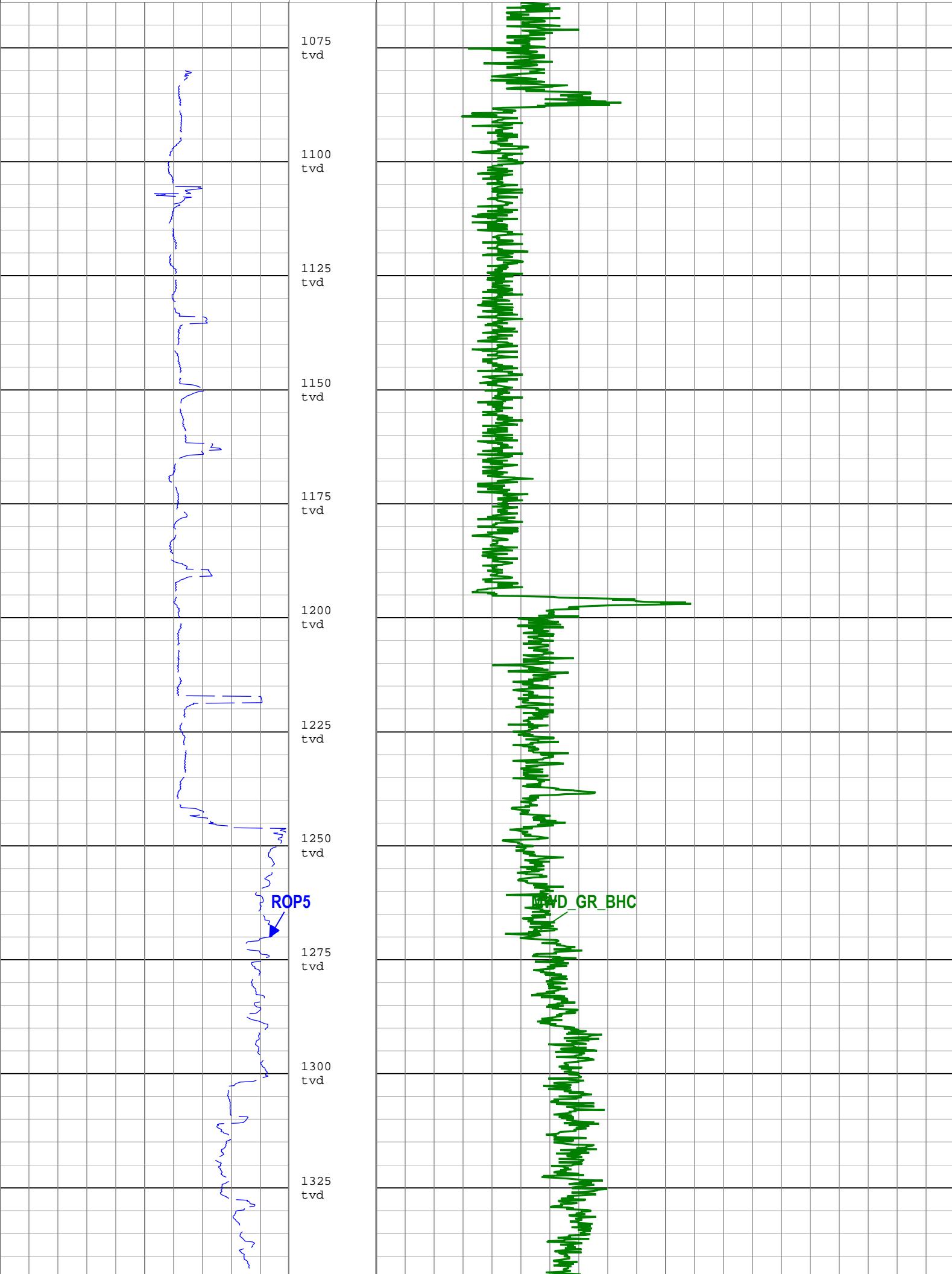
Company:Trias Westland B.V.

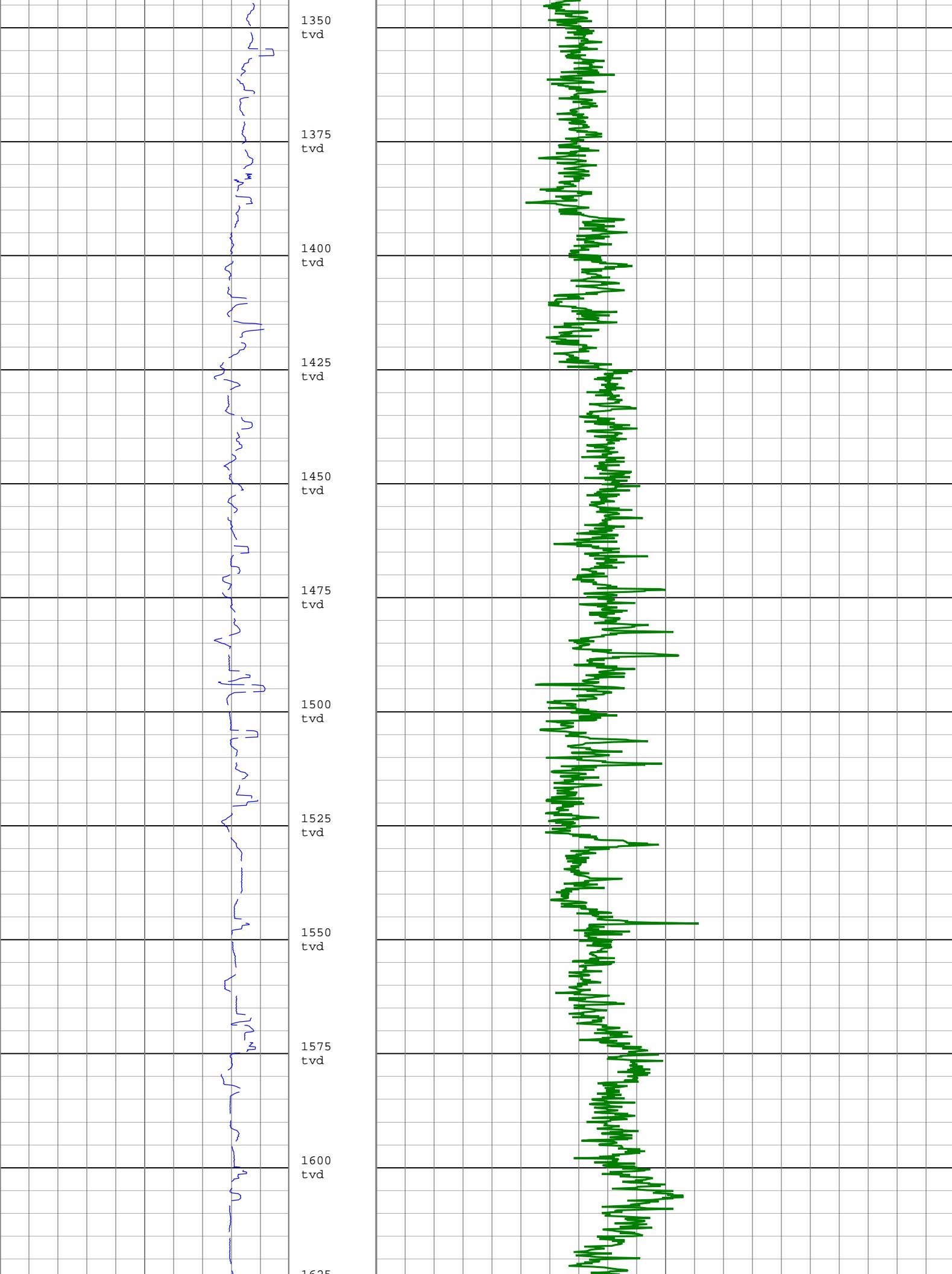
Well:NLW-GT-02-S1

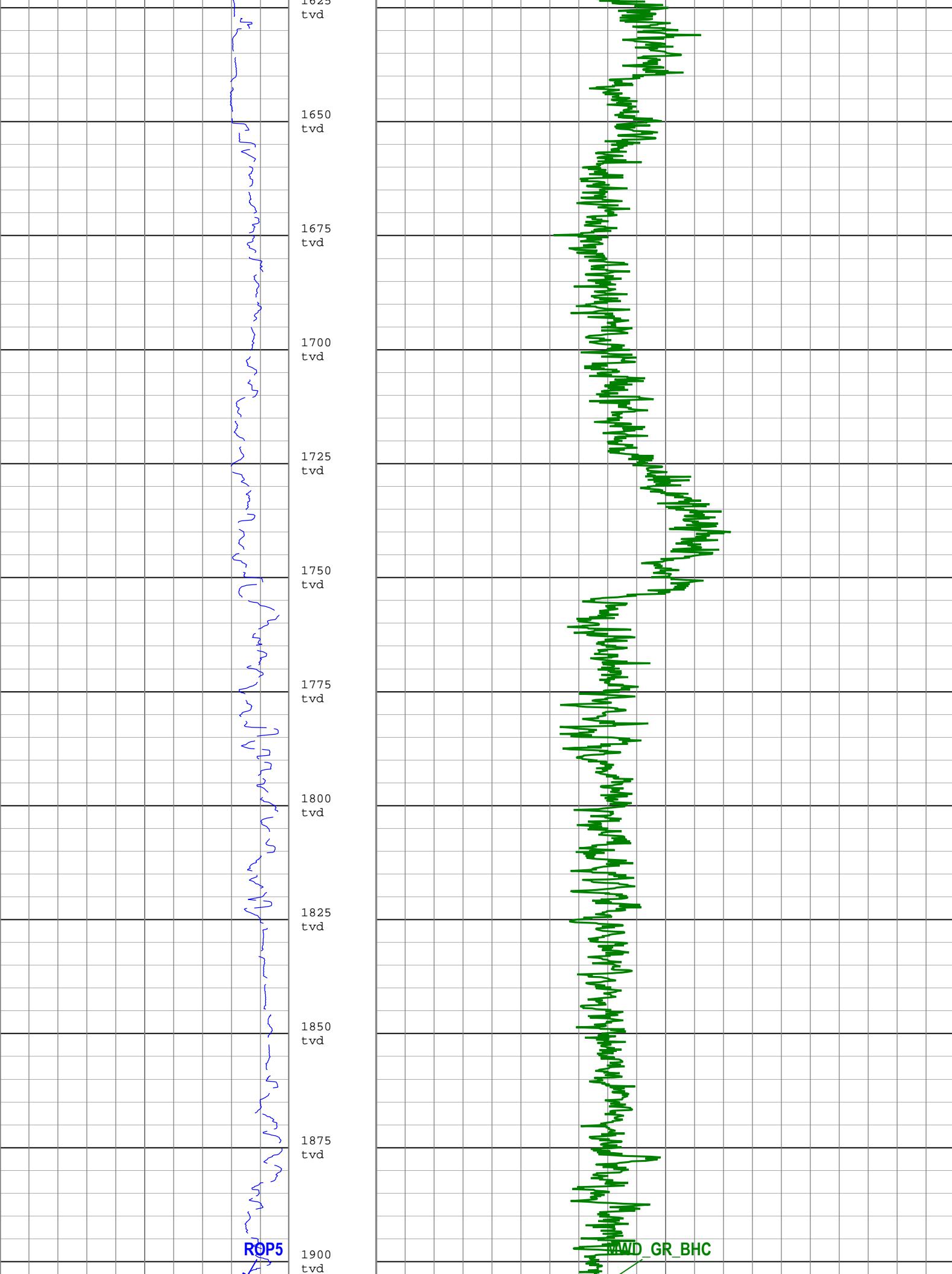
17.5 in. Section Composite:S108

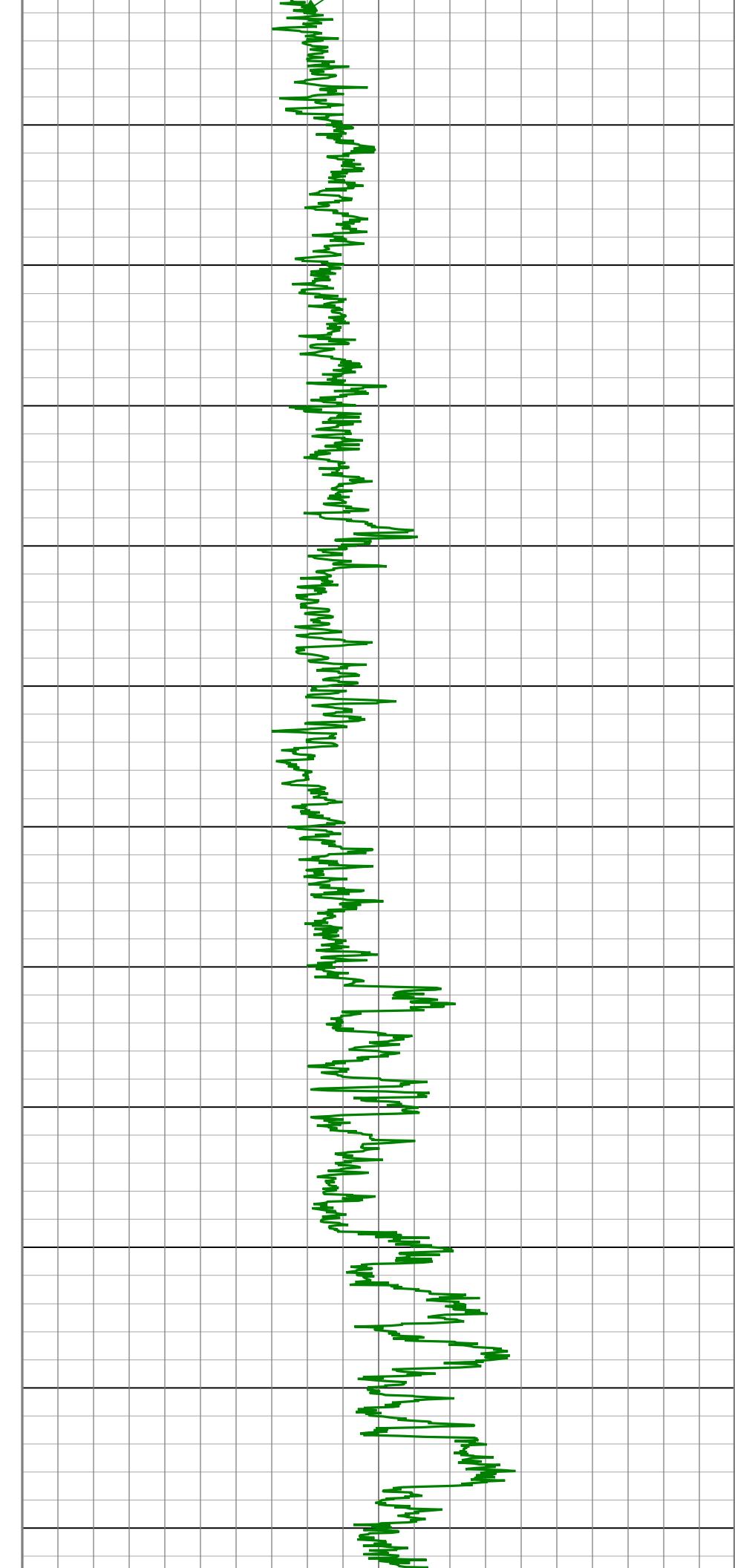
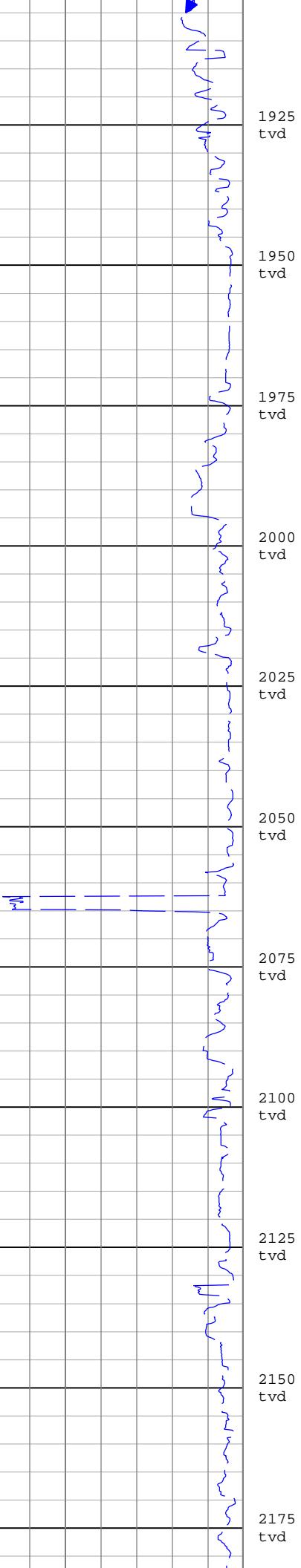
Description: TeleScope Gamma Ray Depth RT Format: Log (GR MWD and PD no ticks) Index Scale: 1:1000 Index Unit: m Index Type: TVD Creation Date: 19-Apr-2018 18:52:17

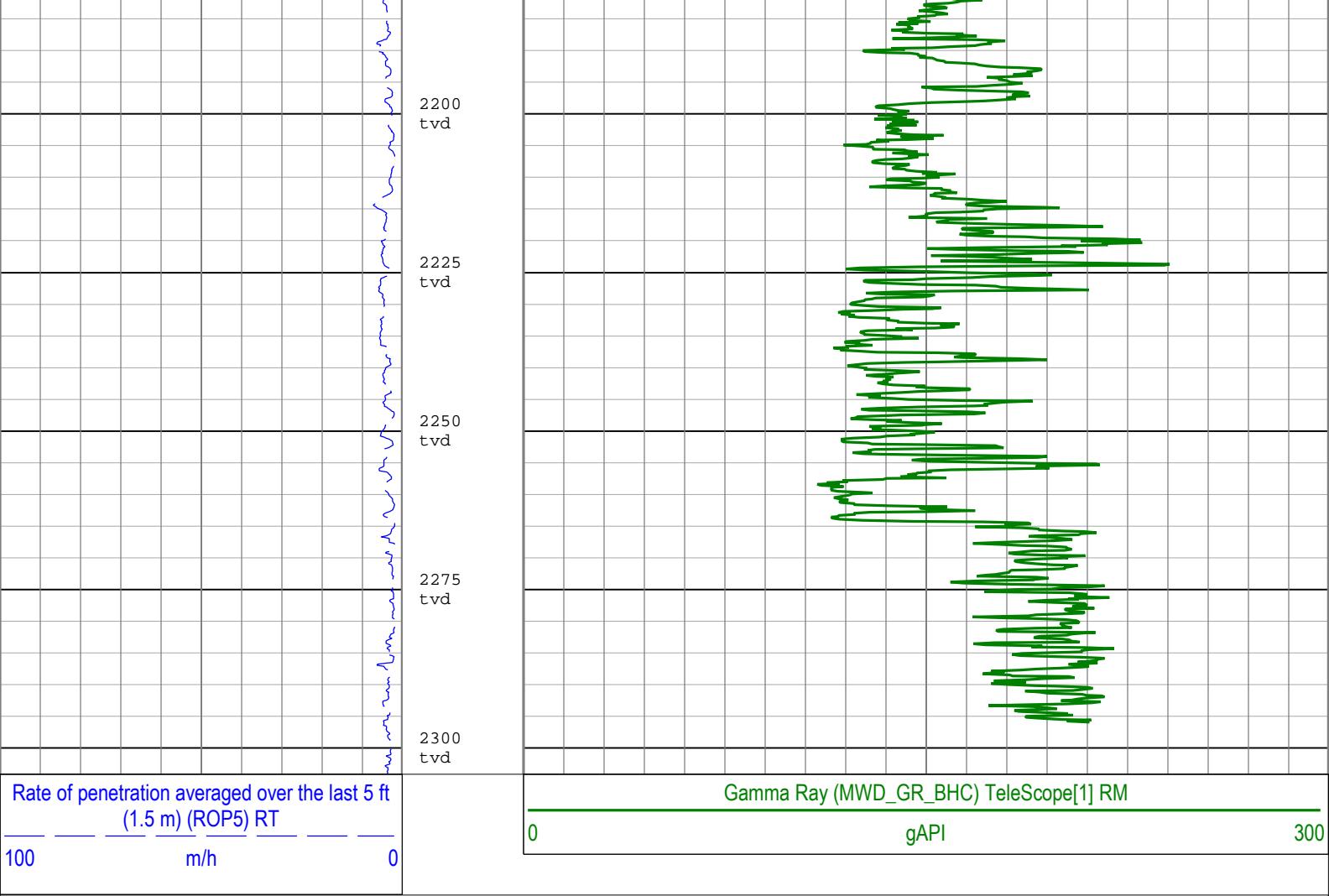












Description: TeleScope Gamma Ray Depth RT Format: Log (GR MWD and PD no ticks) Index Scale: 1:1000 Index Unit: m Index Type: TVD Creation Date: 19-Apr-2018 18:52:17

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

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					
Gamma Ray Calibration Gain		Master	1.0000	0.7500	0.8431	1.2500	<table border="1"><tr><td></td><td></td><td style="background-color: green;">█</td><td></td></tr></table>			█	
		█									

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					
Gamma Ray Calibration Gain		Master	1.0000	0.7500	0.9608	1.2500	<table border="1"><tr><td></td><td></td><td style="background-color: green;">█</td><td></td></tr></table>			█	
		█									

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