

Schlumberger

Telescope Gamma Ray

1 in. / 100 ft and 5 in. / 100 ft True Vertical Depth

Real Time Log

Company: ExxonMobil Oil Corporation

Well: PCU 296 6B1

Field: Piceance Creek

County: Rio Blanco

State: Colorado

Country: United States

Section: 6

Township: 2S

Range: 96W

APIN:

051031154600

Rig Name:

H&P 215

Rig Type:

Land Rig

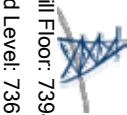
FL: NDA27 Colorado State Planes, Northern Zone, US Foot

FL1: Latitude: N 39° 54' 19.064" Y: 219913 ft US

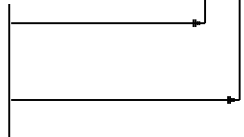
FL2: Longitude: W 108° 12' 15.612" X: 1241416 ft US

Log Measured From - Drill Floor: 7394.0 ft

Ground Level: 7367.0 ft



Permanent Datum - Mean Sea Level



Acquisition Dates:

18 Dec 10 to 24 Dec 10

Other Services:

Print Interval:

73.0(ft) to 4600.0(ft)

Directional Drilling

Index Types:

True Vertical Depth

Index Scales:

1:1200 1" / 100', 1:240 5" / 100'

Depth Source:

Driller's Depth

Depth Sensor:

DES

Conveyance:

Drill Pipe

Print Type:

Final

Spud Date:

19-Dec-2010



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.

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Run001

1 in. / 100 ft TVD Log

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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Software Version

Acquisition System		Version	
MaxWell		2.0.6803.0	
Application Patch		SP-20100528-2.0.6803.1089	
Tool Elements	Description	Software Version	Firmware Version
DRILLING_SURFACE	DRILLING_SURFACE	2.0.6803.1089	
PMGR	TeleScope - M10 Gamma Ray Assembly	2.0.6803.0	

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Acquisition Start Date	Acquisition Start Time
Run001	Drilling	Down	143.00 ft	4530.42 ft	18-Dec-2010	20:48:15

All depths are referenced to toolstring zero

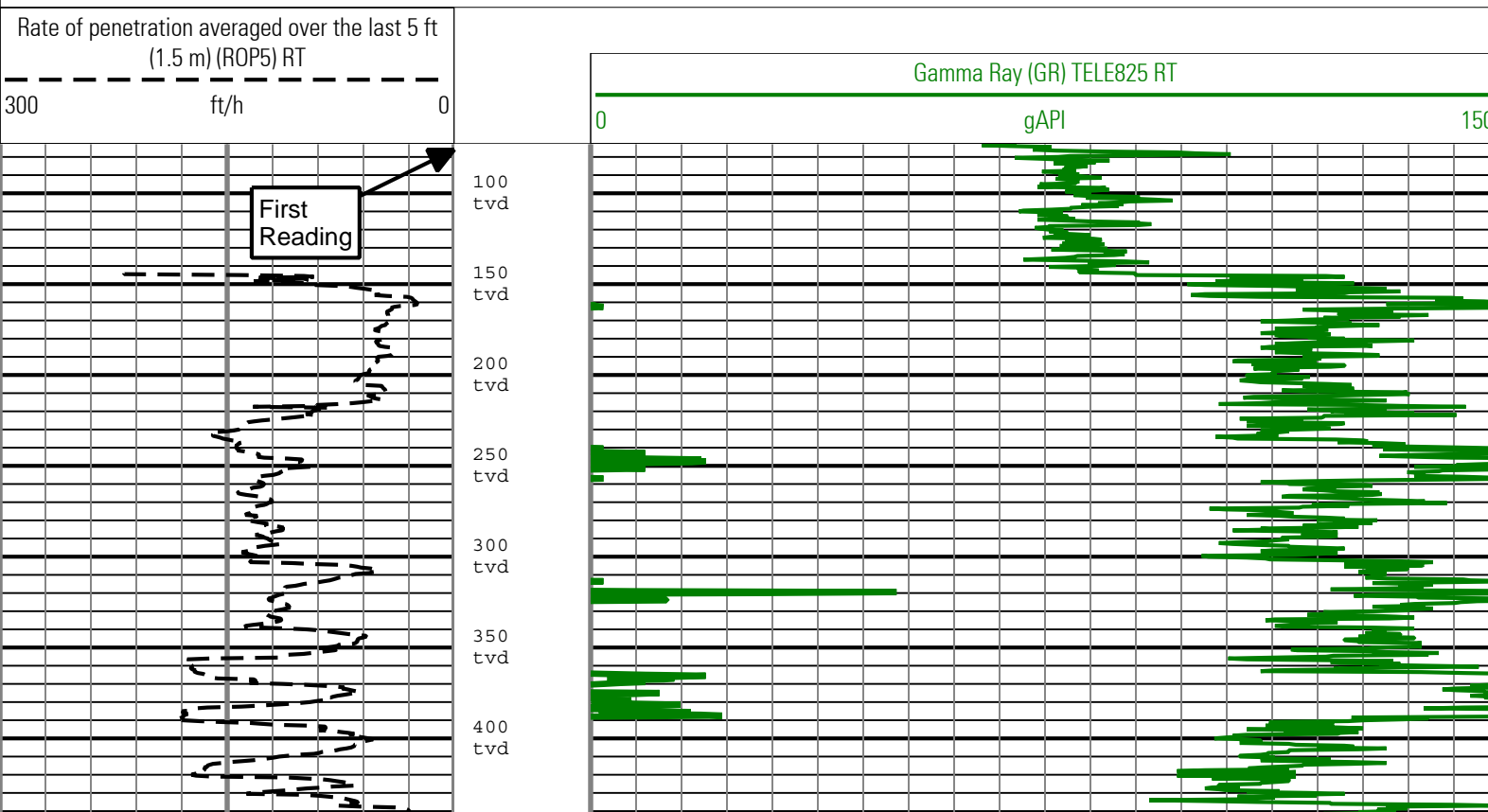
Log

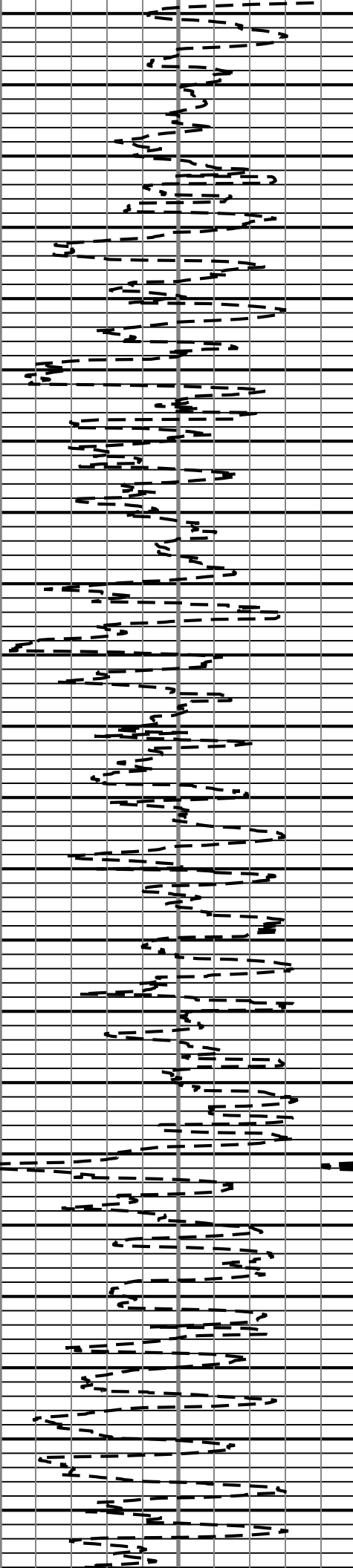
Run001: Drilling 6F61CC1B-BFF6-47D1-972C-617F0AB99552

Description: TeleScope Gamma Ray Depth RT Format: Log (TeleScope Gamma Ray TVD RT) Index Scale: 1 in per 100 ft Index Unit: ft Index Type: TVD
Creation Date: 07-Jan-2011 11:16:15

GR TELE825:TELE825:PMGR 6in - RT

ROP5 DRILLING_SURFACE 6in - RT





450
tvd

500
tvd

550
tvd

600
tvd

650
tvd

700
tvd

750
tvd

800
tvd

850
tvd

900
tvd

950
tvd

1000
tvd

1050
tvd

1100
tvd

1150
tvd

1200
tvd

1250
tvd

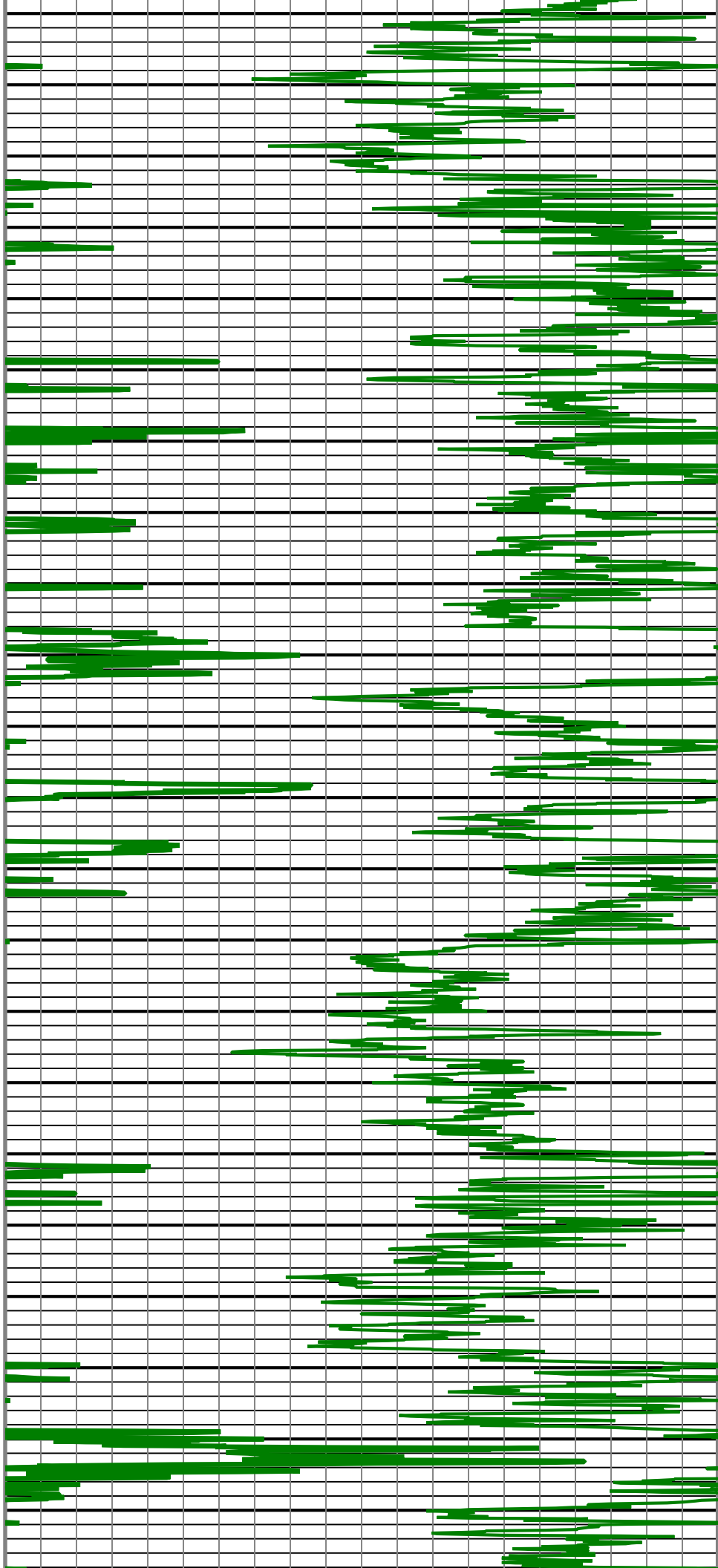
1300
tvd

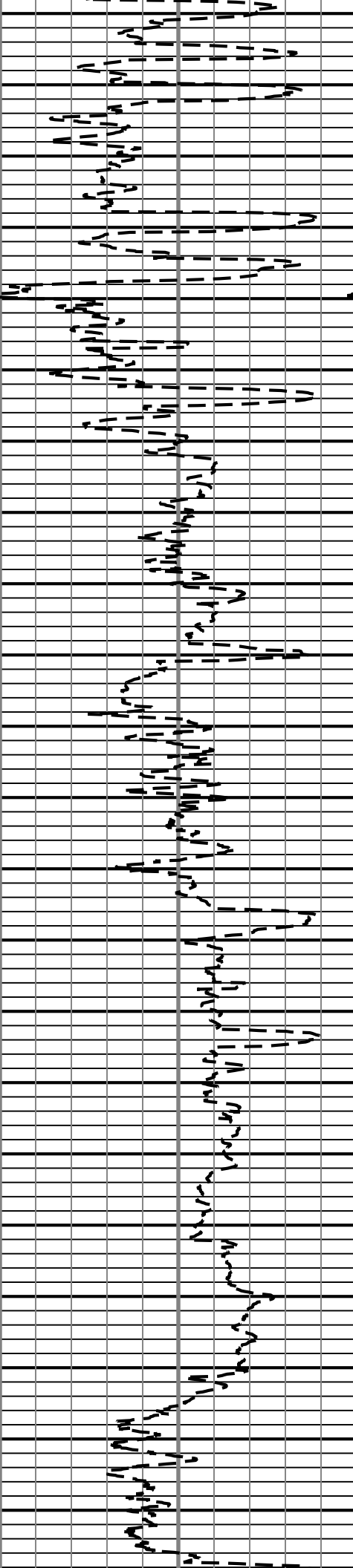
1350
tvd

1400
tvd

1450
tvd

1500
tvd





1550
tvd

1600
tvd

1650
tvd

1700
tvd

1750
tvd

1800
tvd

1850
tvd

1900
tvd

1950
tvd

2000
tvd

2050
tvd

2100
tvd

2150
tvd

2200
tvd

2250
tvd

2300
tvd

2350
tvd

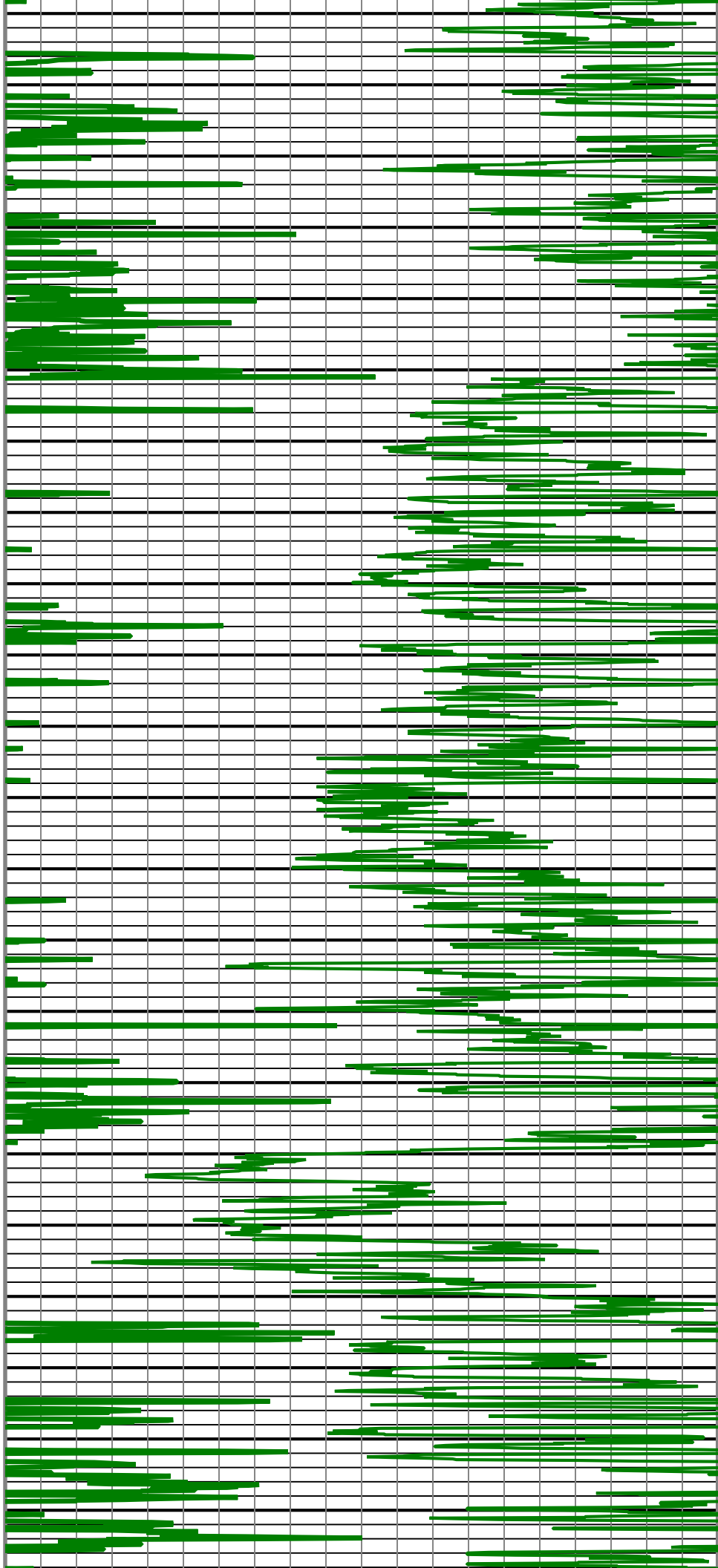
2400
tvd

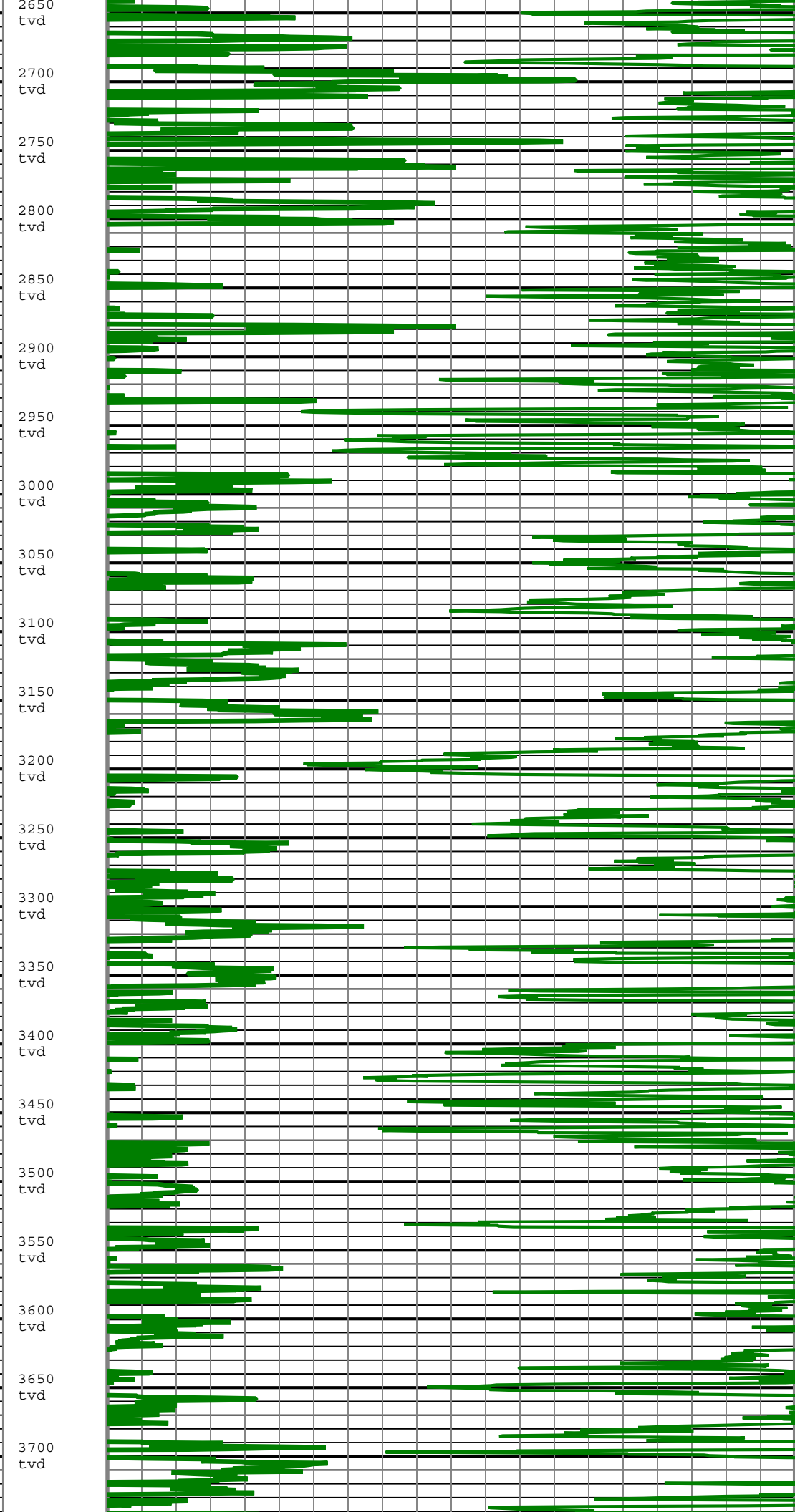
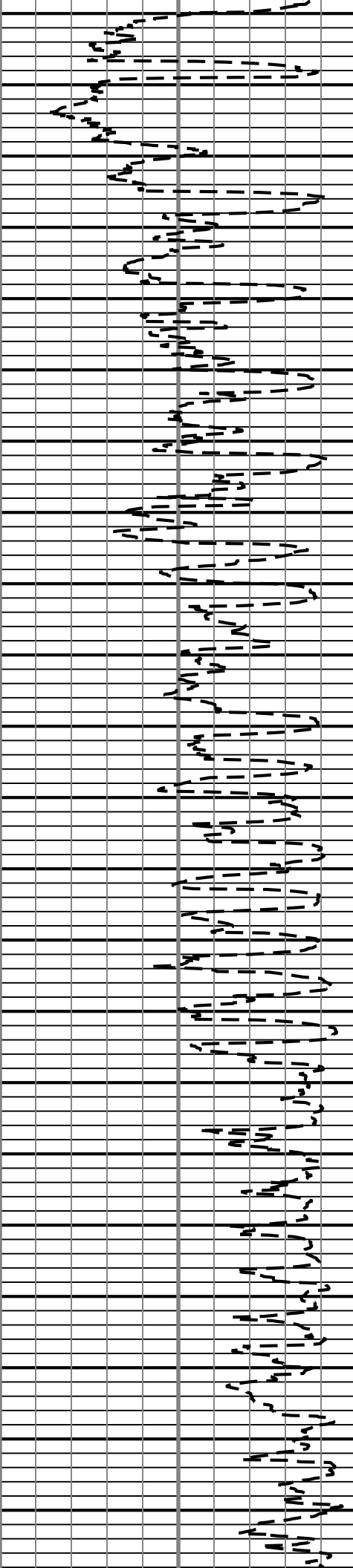
2450
tvd

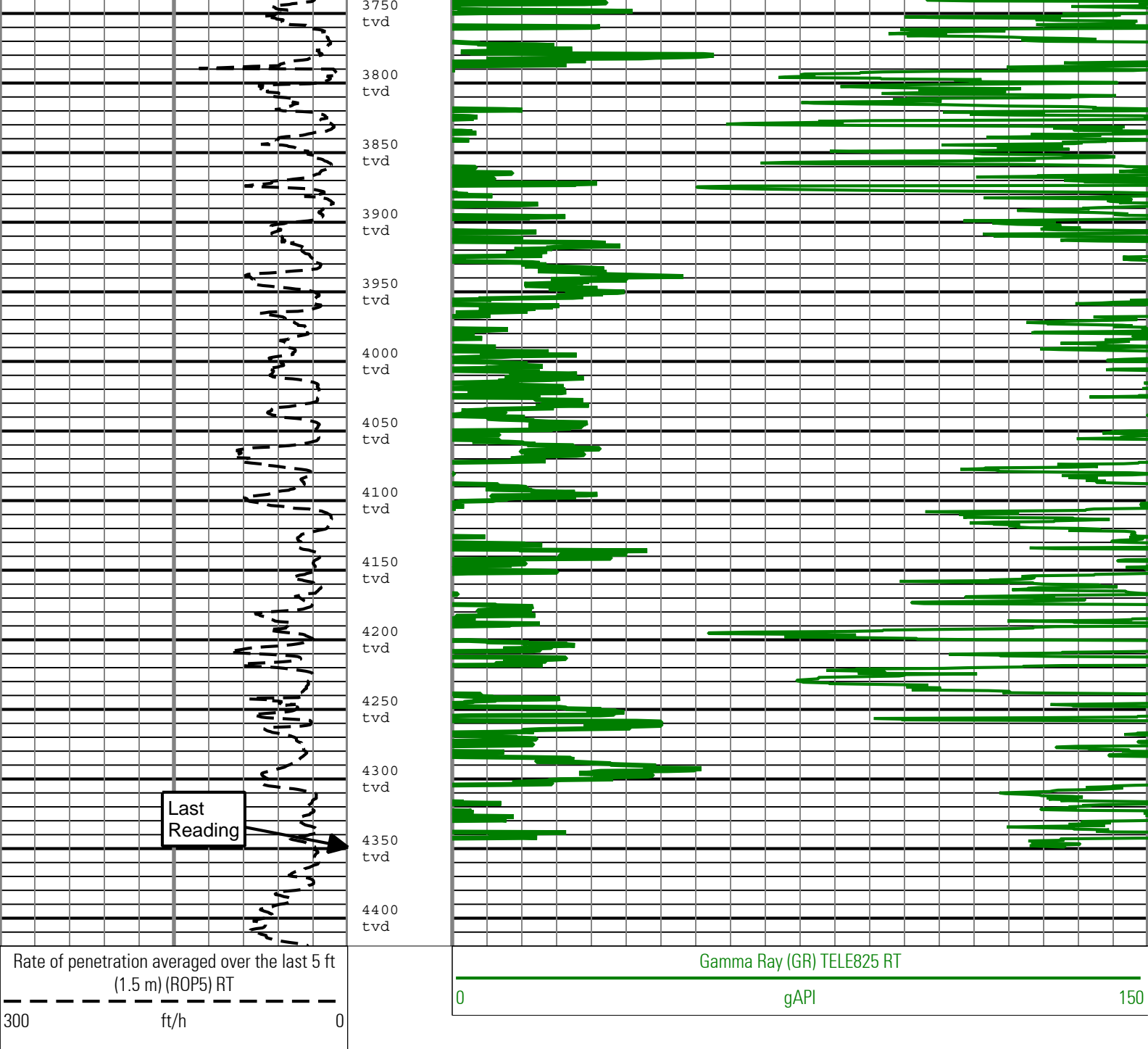
2500
tvd

2550
tvd

2600
tvd







Description: TeleScope Gamma Ray Depth RT Format: Log (TeleScope Gamma Ray TVD RT) Index Scale: 1 in per 100 ft Index Unit: ft Index Type: TVD
Creation Date: 07-Jan-2011 11:16:15

Channel Processing Parameters				
Parameter	Description	ToolPath	Value	Unit
BS	Bit Size	COMPLETION	14.75	in
DEPTH_SEL	Depth Selection Parameter	DNMSESSION	Driller's Depth	
DFD	Drilling Fluid Density	Borehole	Time Zoned	lbm/gal
GR_MULTIPLIER	Gamma Ray Multiplier	TELE825:TELE825:PMGR	1	

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (ft)	Stop Depth (ft)
DFD	9.3	18-Dec-2010 20:48:15	19-Dec-2010 23:00:00	143	1235.92
DFD	9	19-Dec-2010 23:00:00	20-Dec-2010 11:00:00	1235.92	2050.5
DFD	8.9	20-Dec-2010 11:00:00	21-Dec-2010 11:00:00	2050.5	3394.92
DFD	9	21-Dec-2010 11:00:00	21-Dec-2010 23:00:00	3394.92	3709.92
DFD	9.1	21-Dec-2010 23:00:00	22-Dec-2010 23:00:00	3709.92	3820.75

DFD	9.2	22-Dec-2010 23:00:00	23-Dec-2010 11:00:00	3820.75	4062.17
DFD	9.05	23-Dec-2010 11:00:00	23-Dec-2010 23:00:00	4062.17	4350.17
DFD	9.45	23-Dec-2010 23:00:00	24-Dec-2010 12:44:16	4350.17	4530.42

All depth are at tool zero.

Tool Control Parameters

Parameter	Description	ToolPath	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom	DnMWorkflow	0.1	ft

Run001

5 in. / 100 ft TVD Log

Integration Summary

Output Channel(s)	Output Description	Input Parameter	Output Value	Unit
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Software Version

Acquisition System		Version	
MaxWell		2.0.6803.0	
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Tool Elements	Description	Software Version	Firmware Version
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Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Acquisition Start Date	Acquisition Start Time
Run001	Drilling	Down	143.00 ft	4530.42 ft	18-Dec-2010	20:48:15

All depths are referenced to toolstring zero

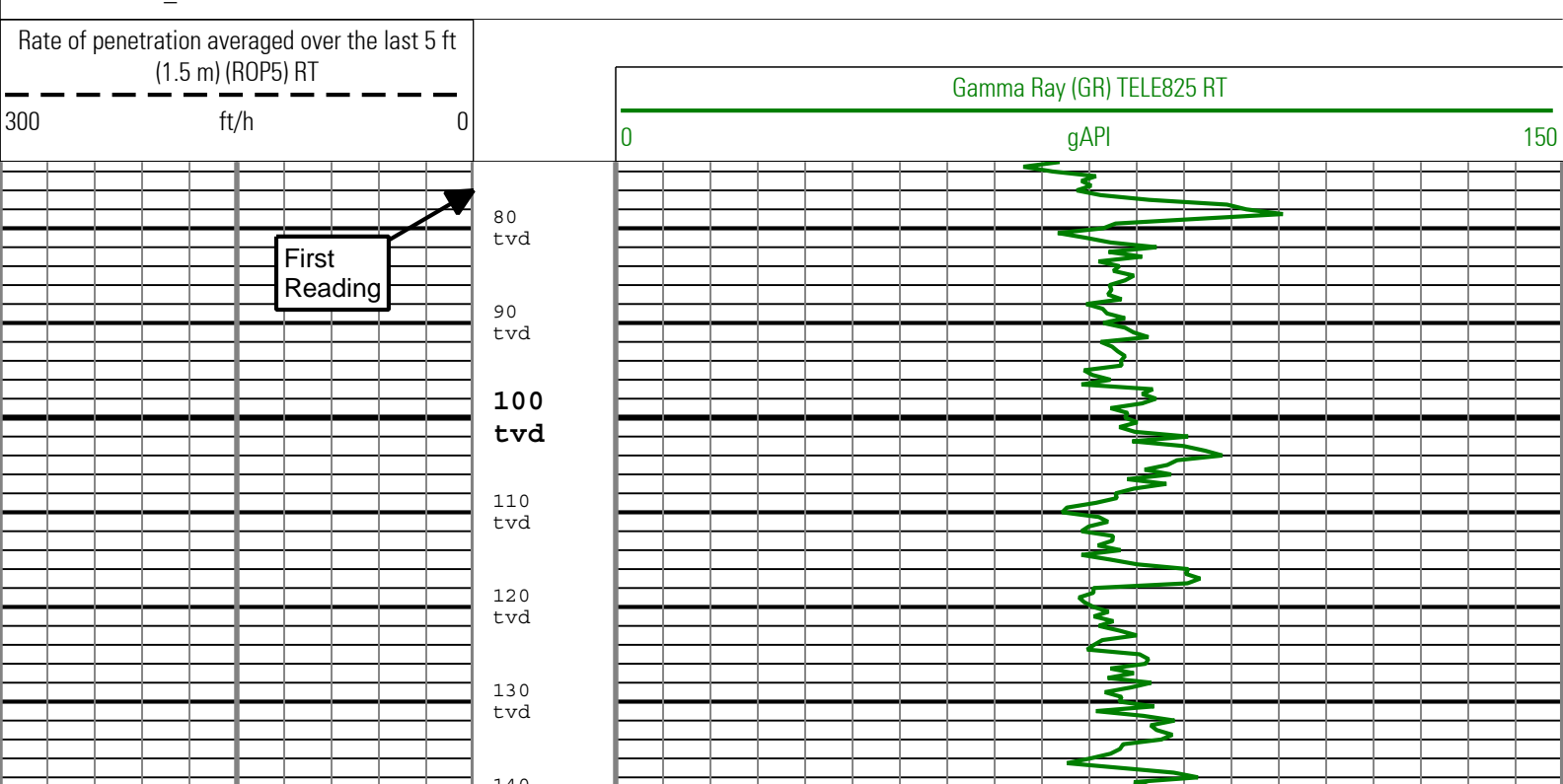
Log

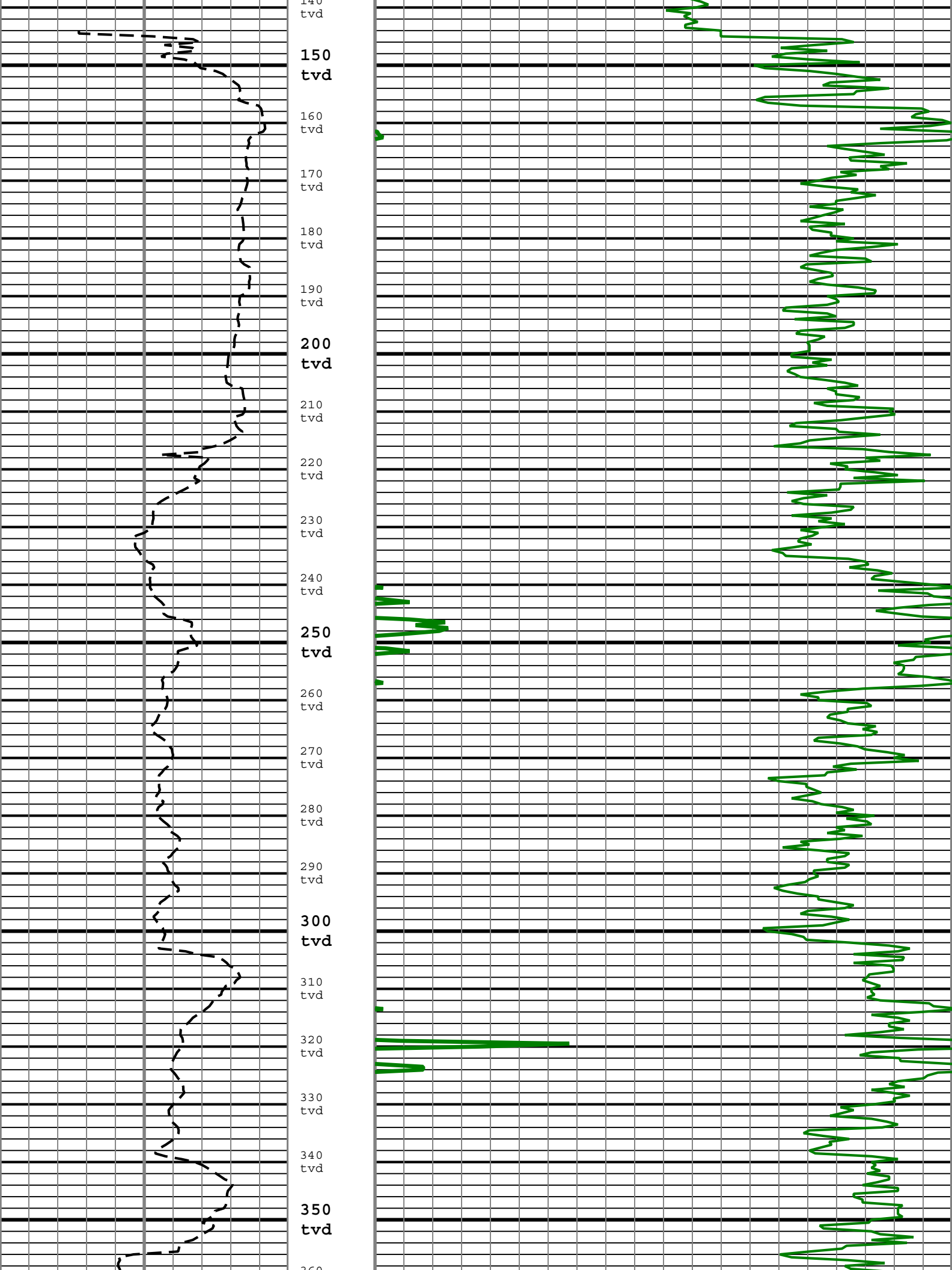
Run001: Drilling 6F61CC1B-BFF6-47D1-972C-617F0AB99552

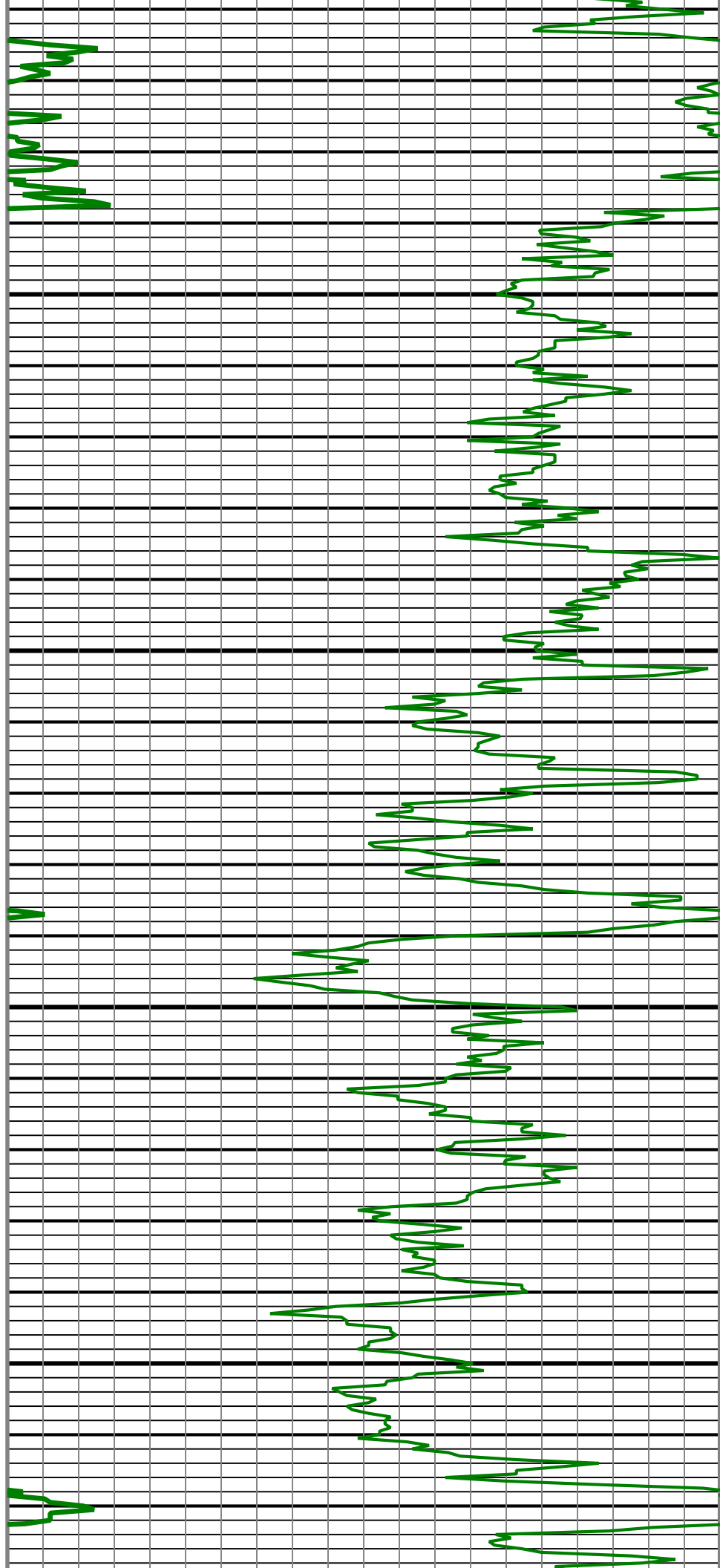
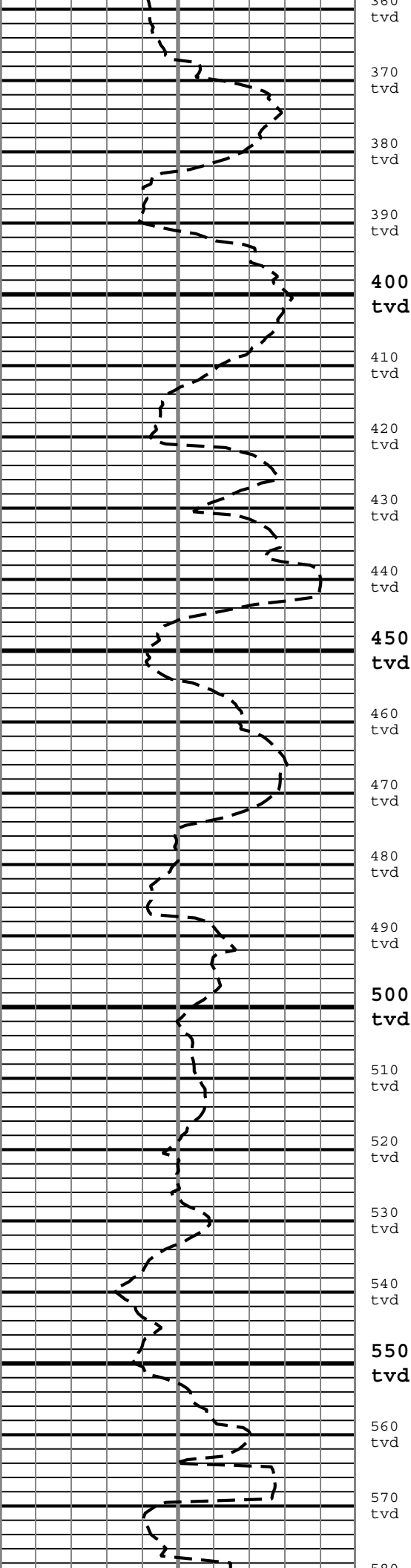
Description: TeleScope Gamma Ray Depth RT Format: Log (TeleScope Gamma Ray TVD RT) Index Scale: 5 in per 100 ft Index Unit: ft Index Type: TVD
Creation Date: 07-Jan-2011 11:16:17

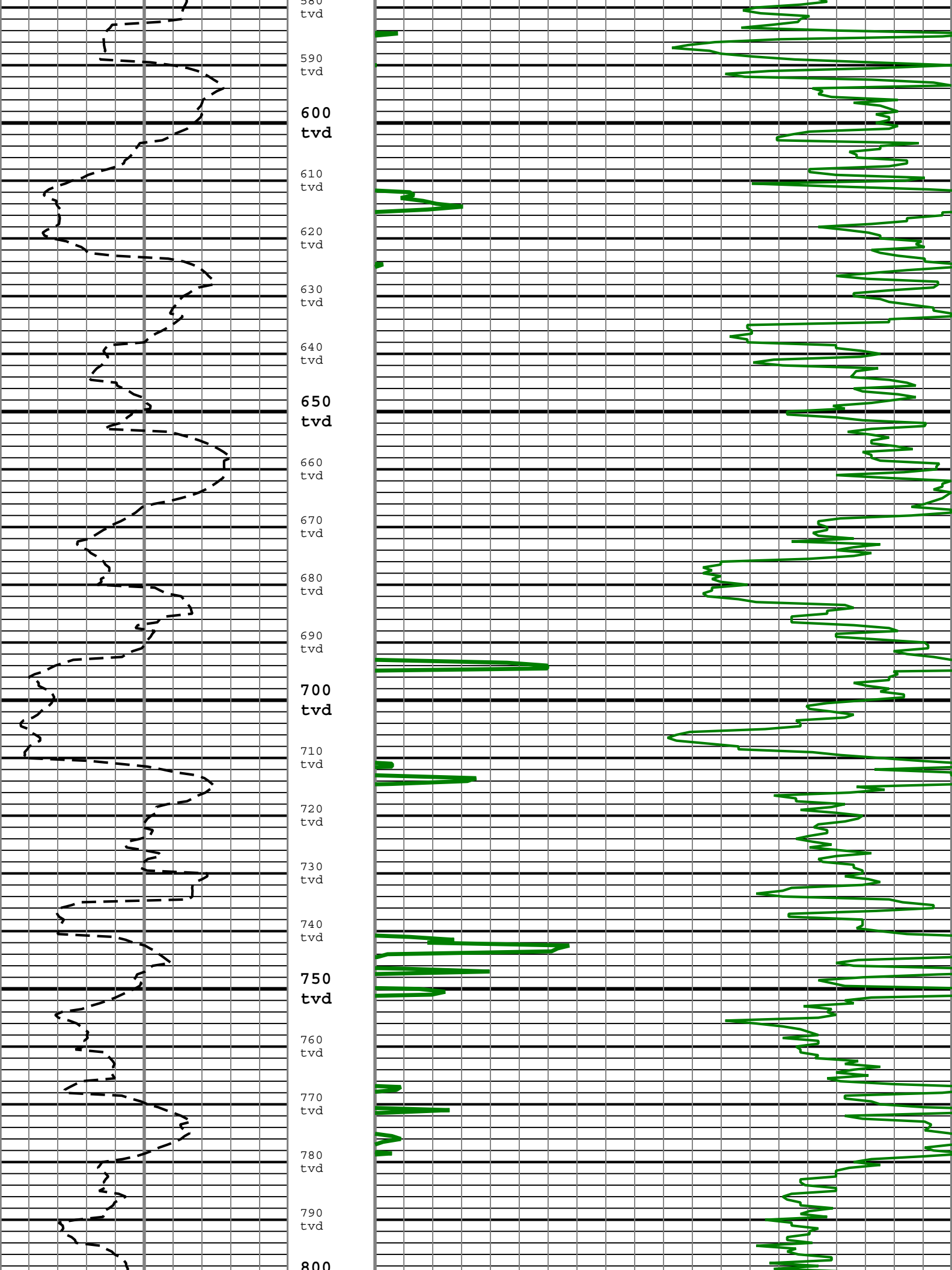
GR TELE825:TELE825:PMGR 6in - RT

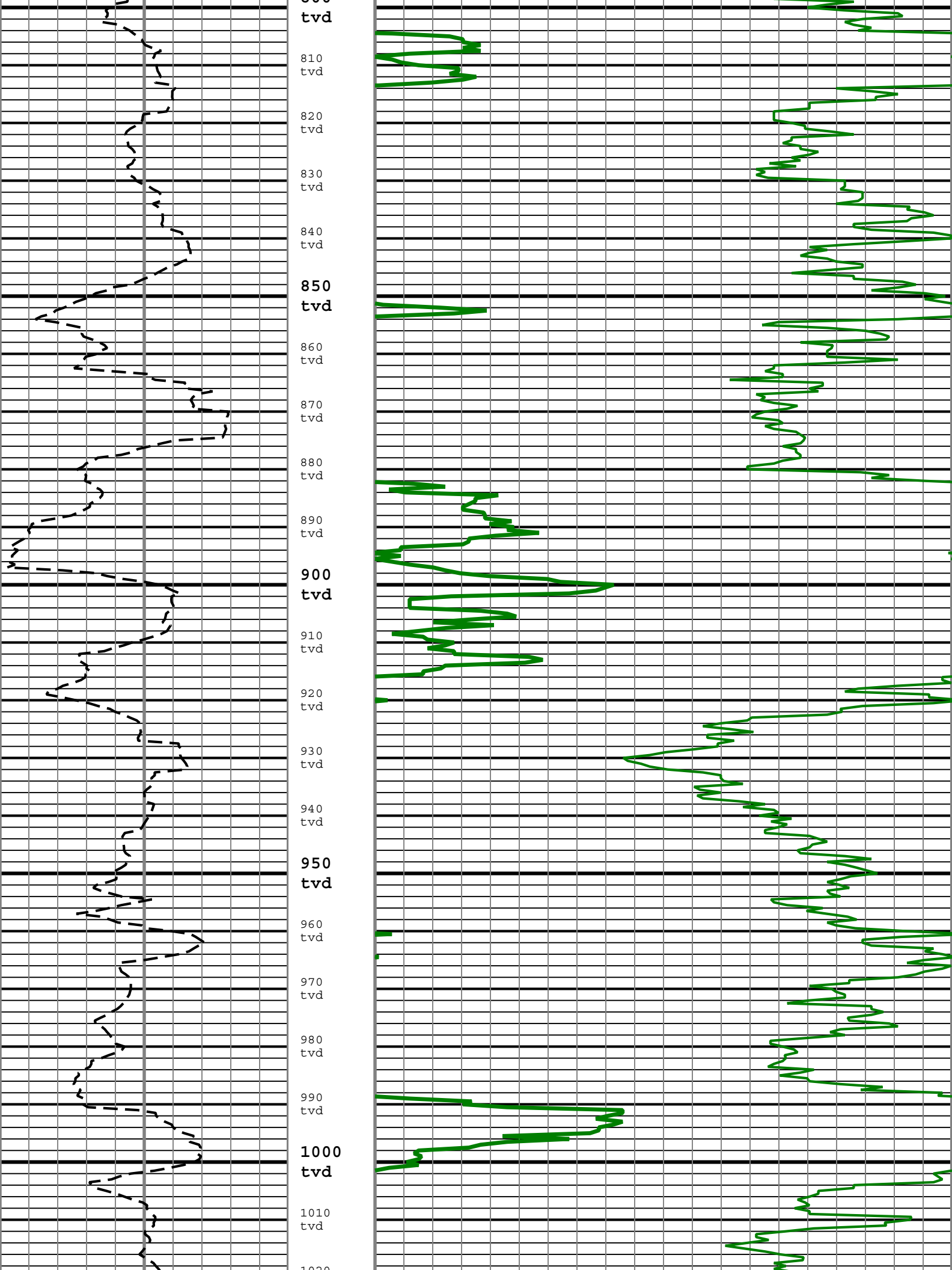
ROP5 DRILLING_SURFACE 6in - RT

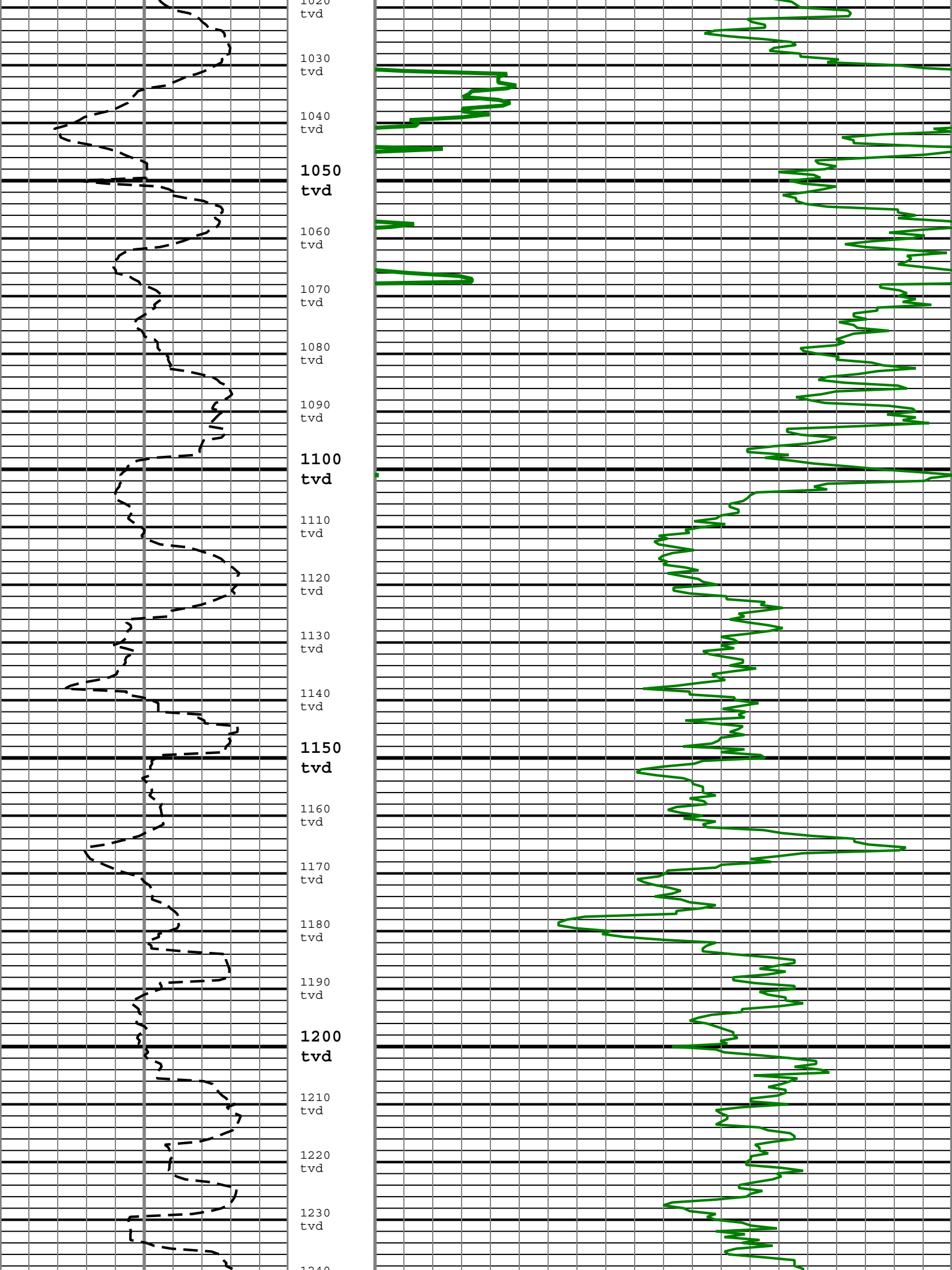


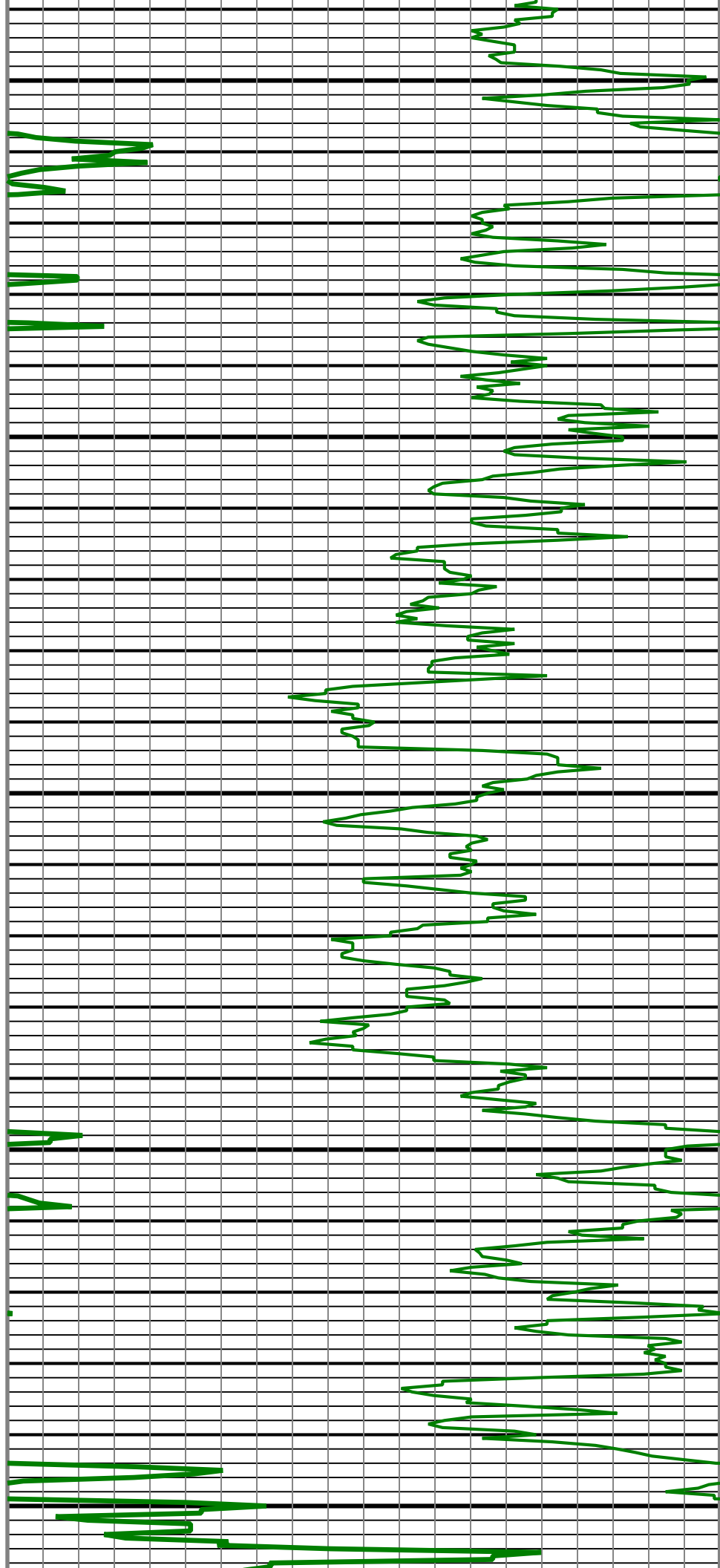
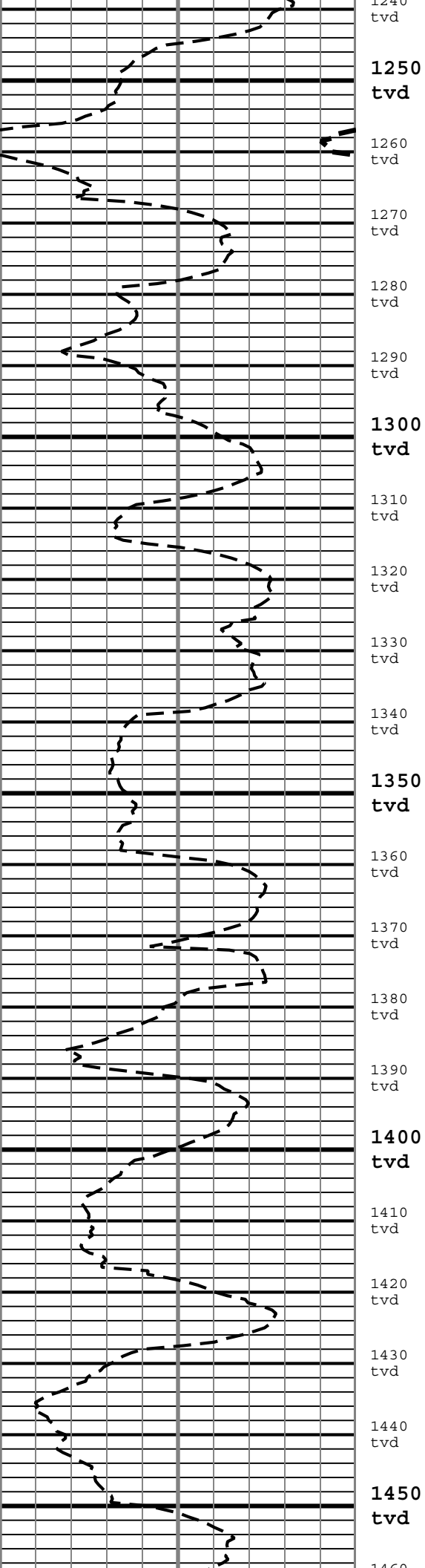


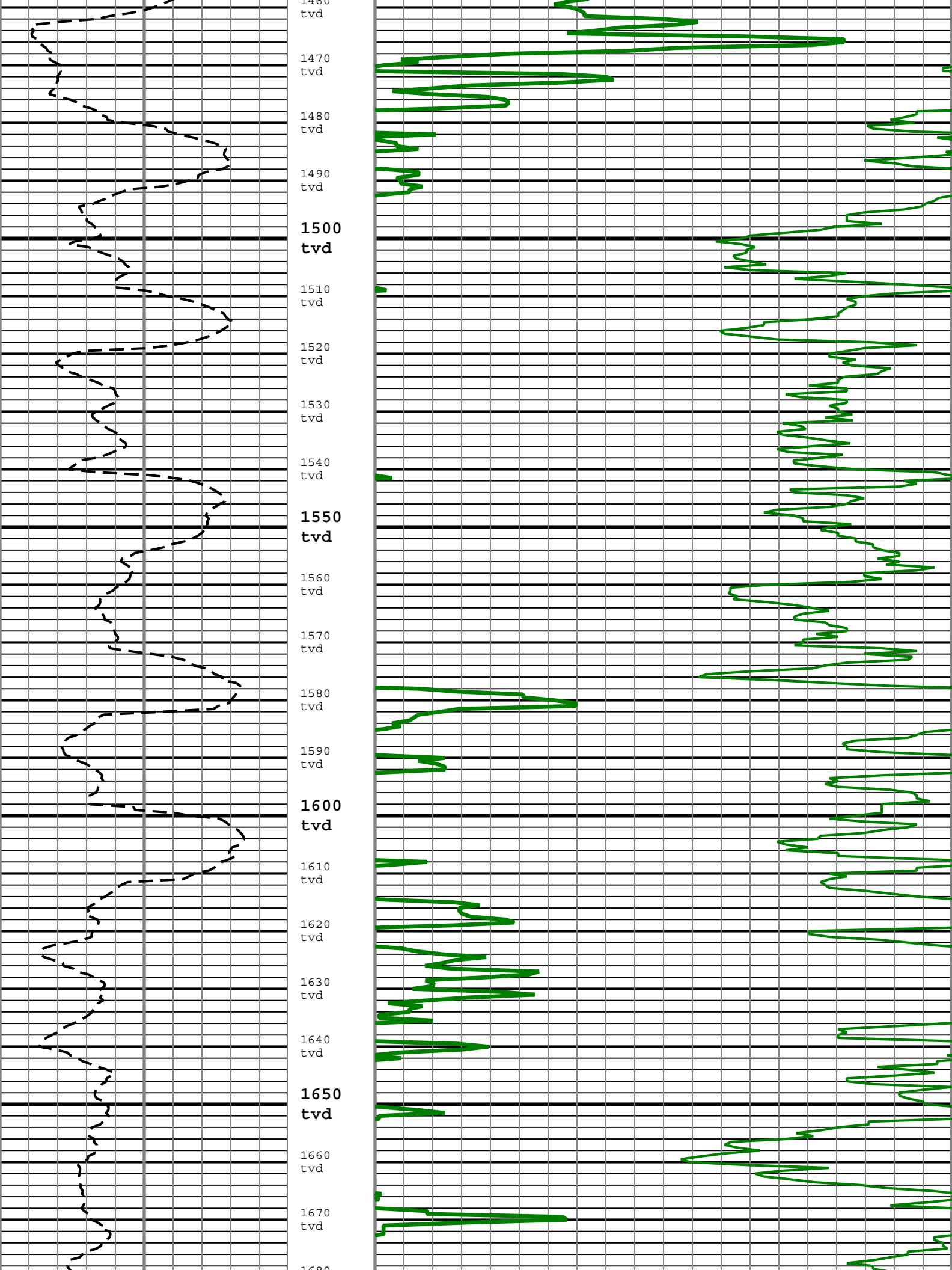


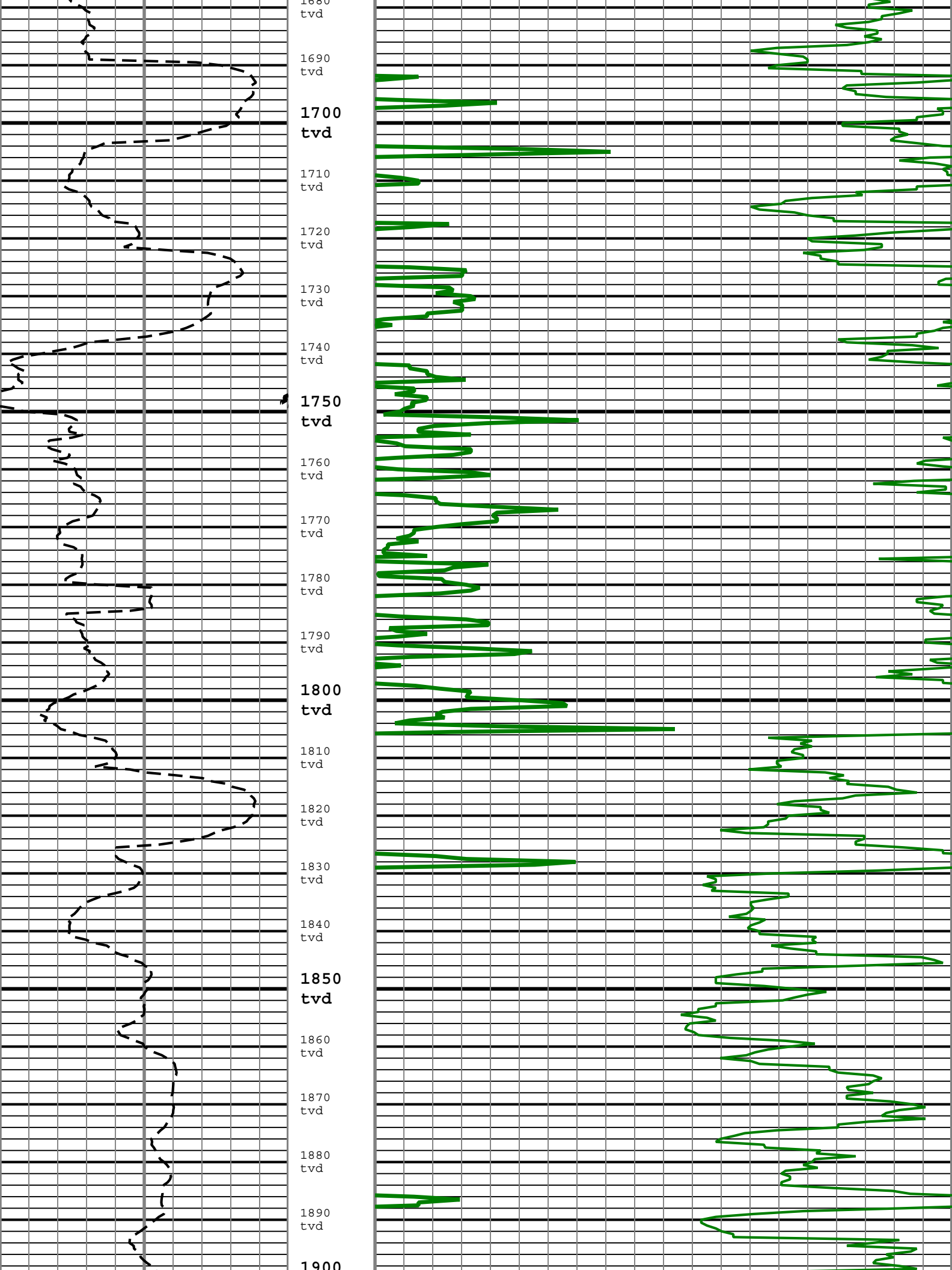


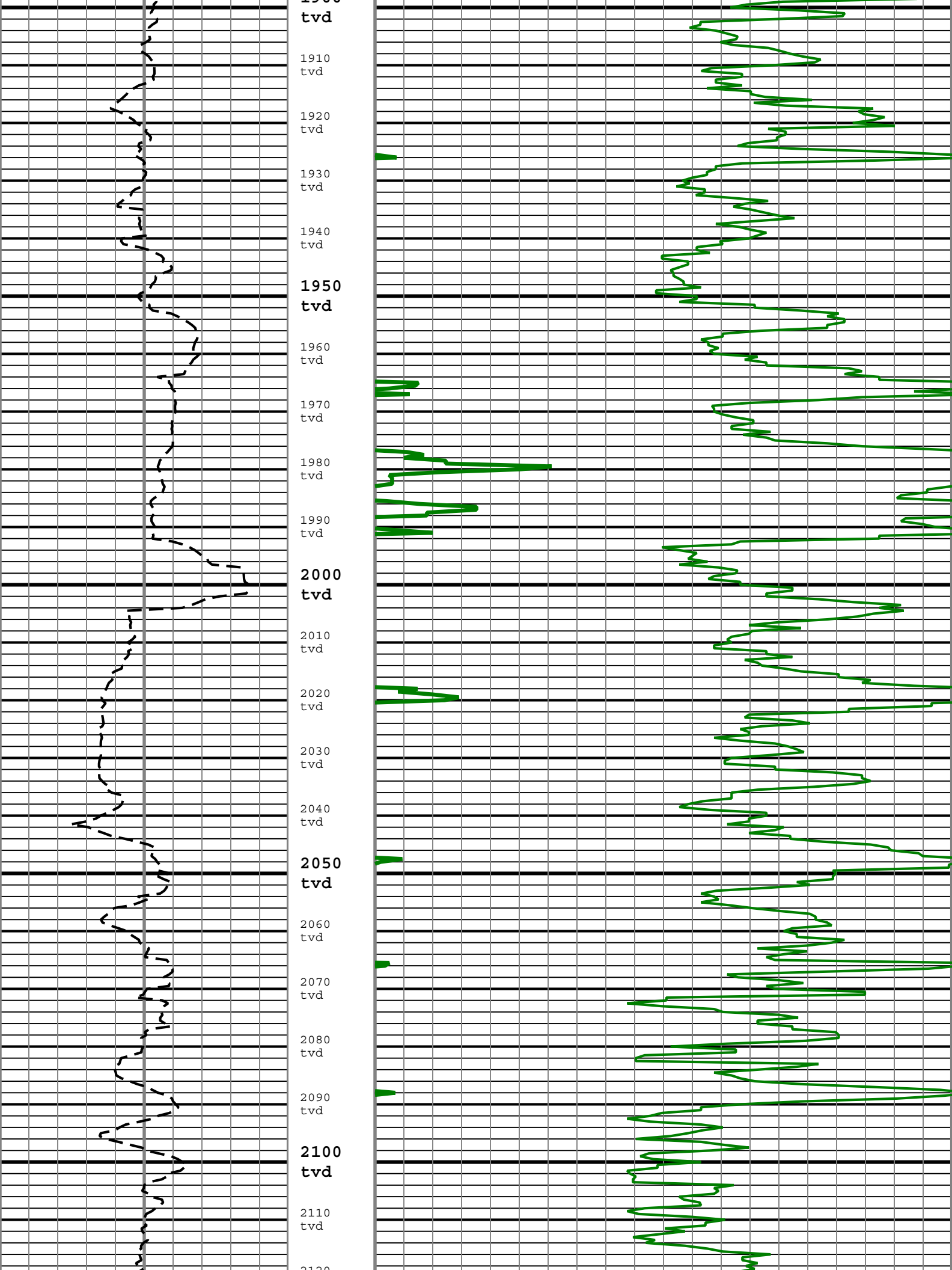


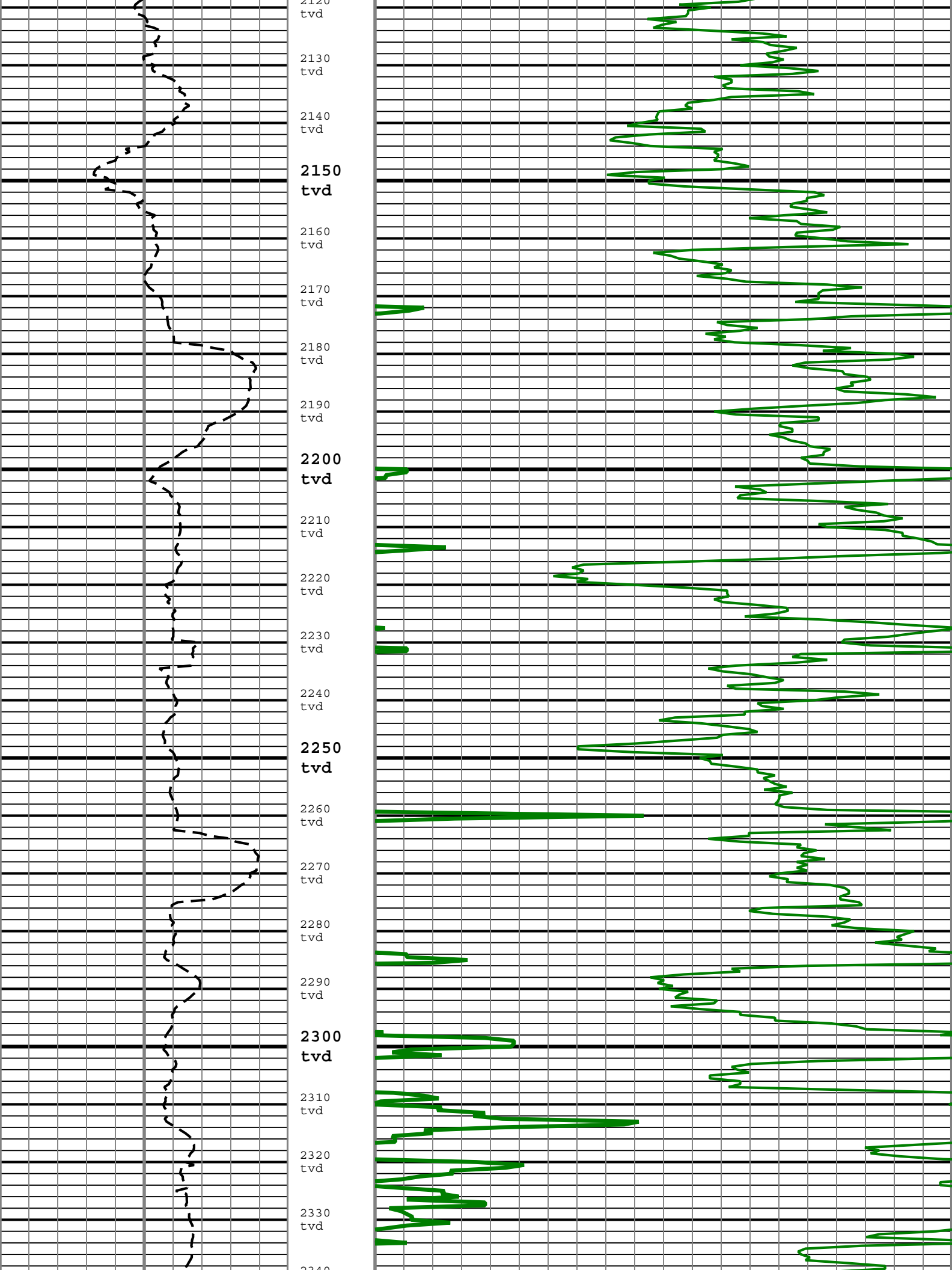


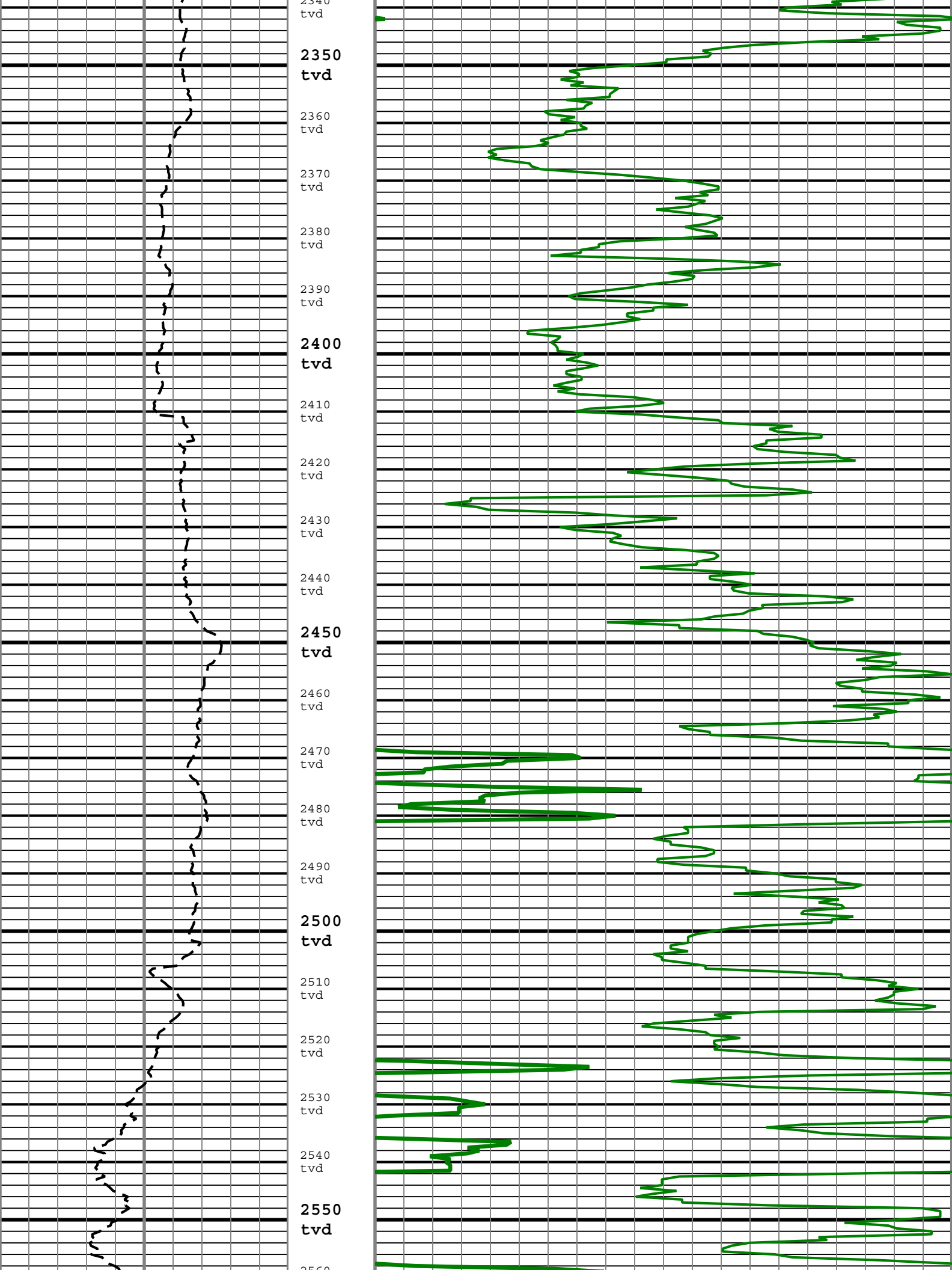


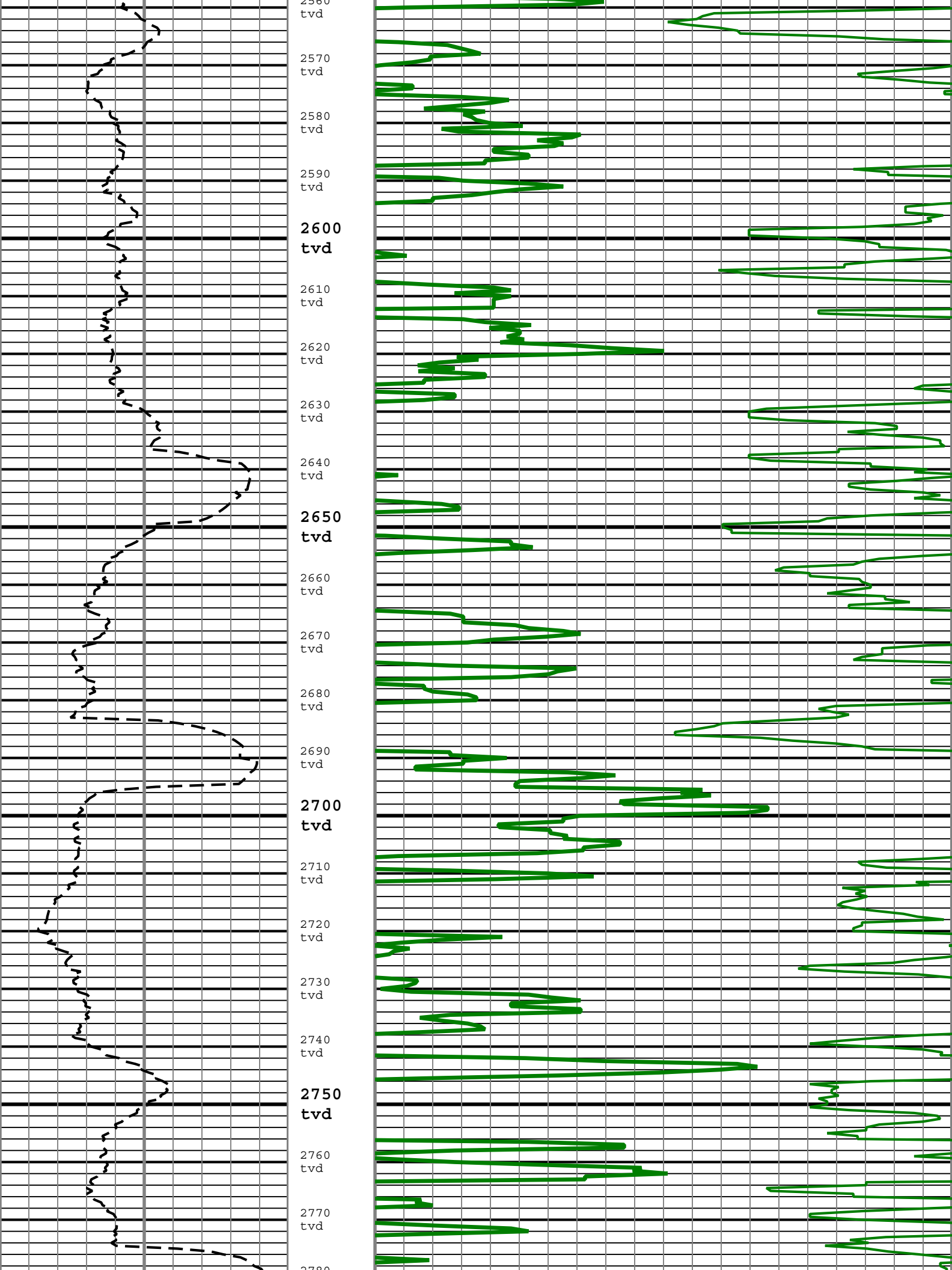


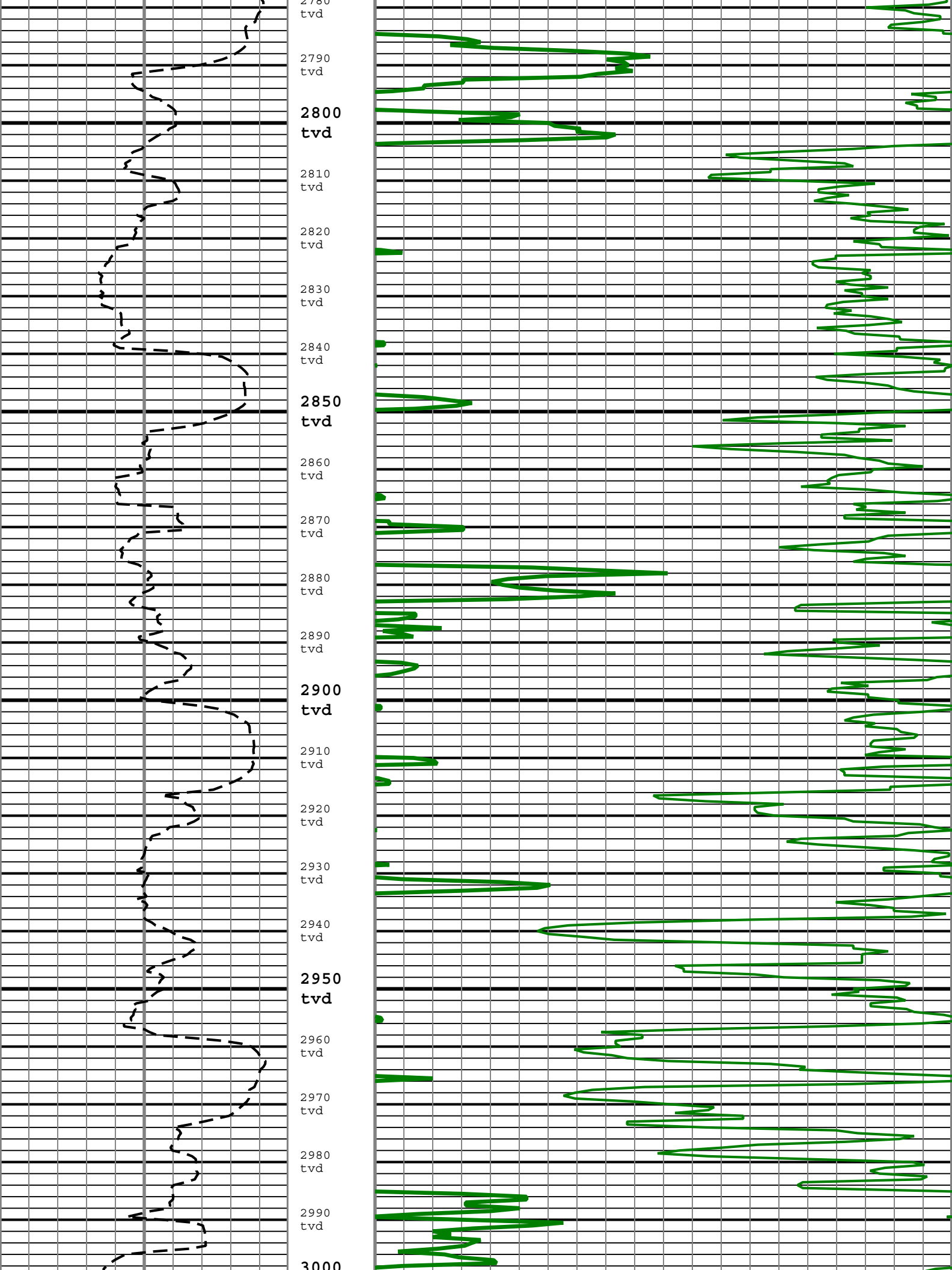


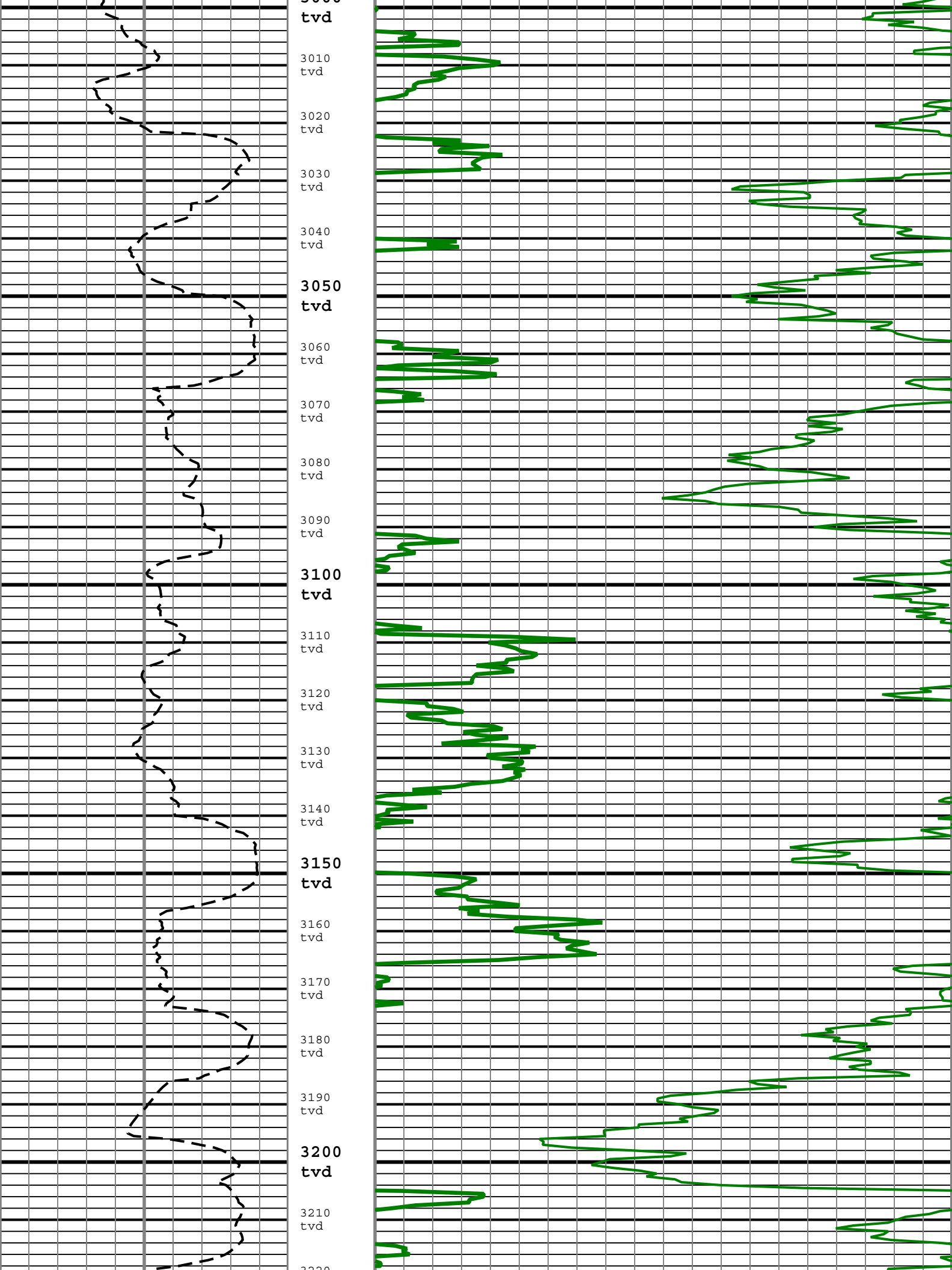


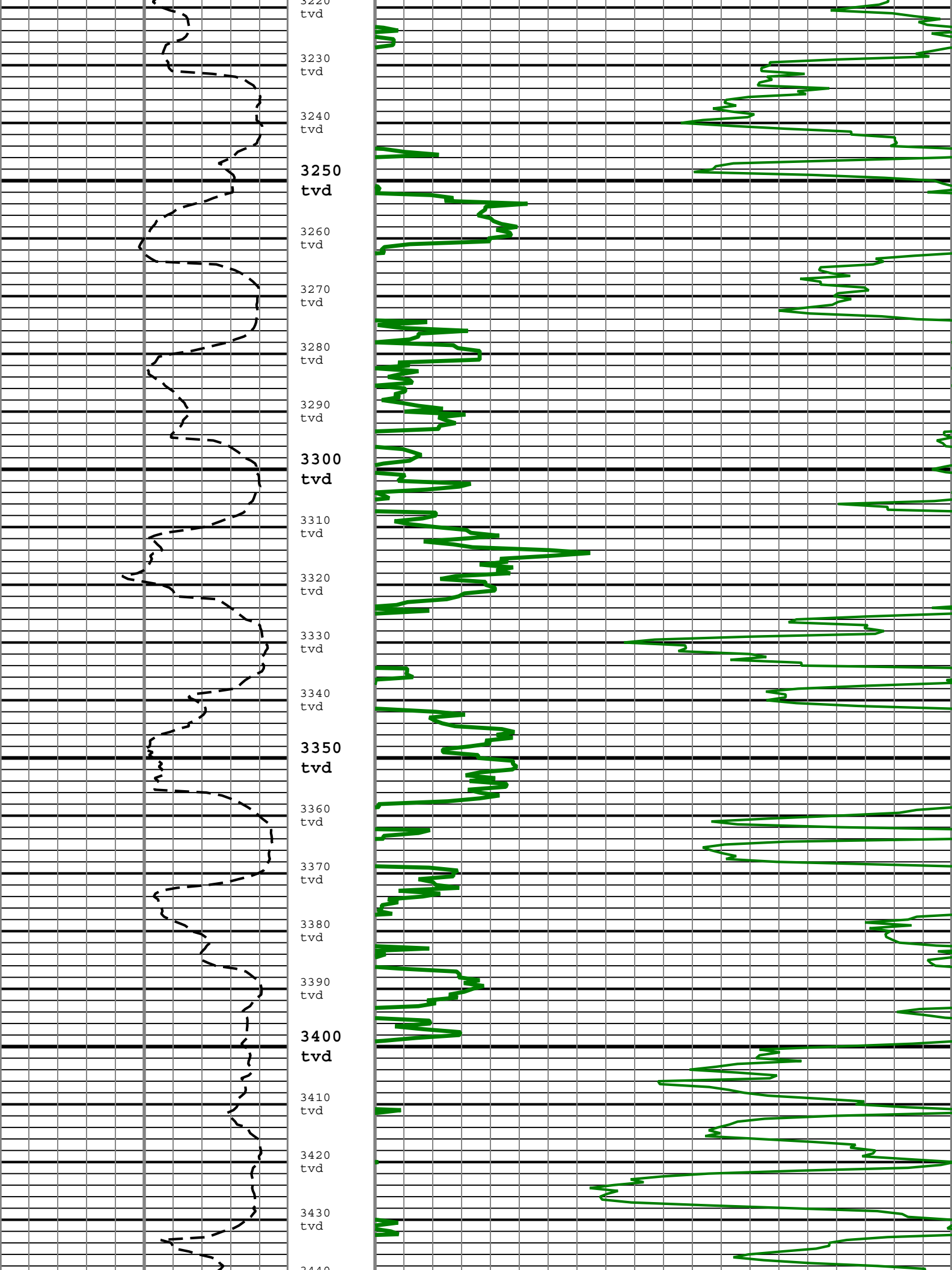


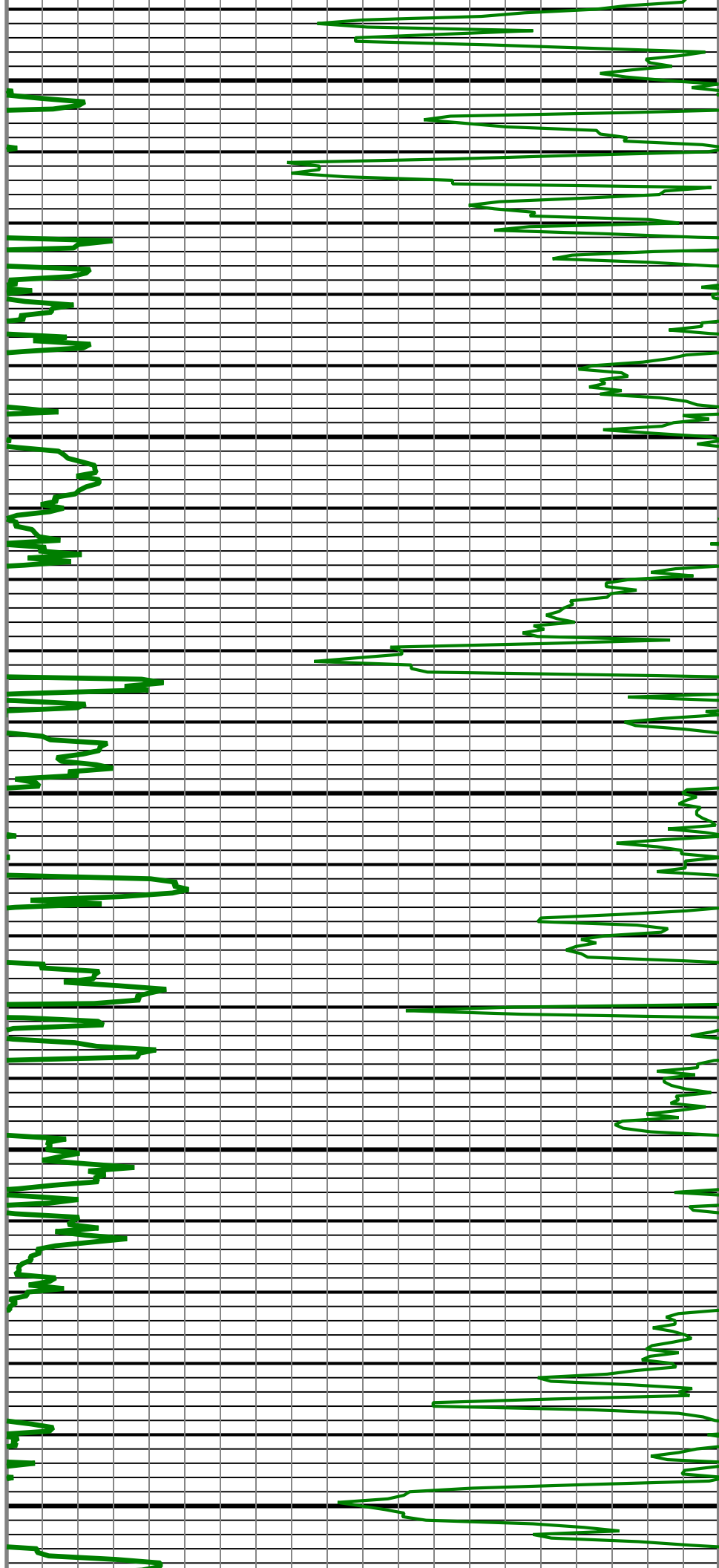
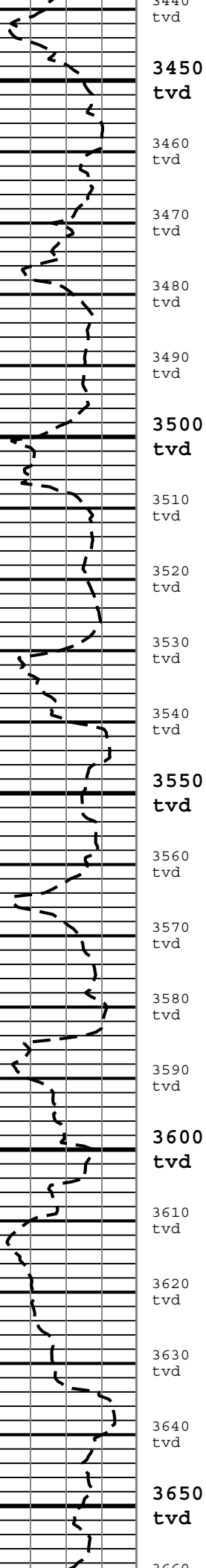


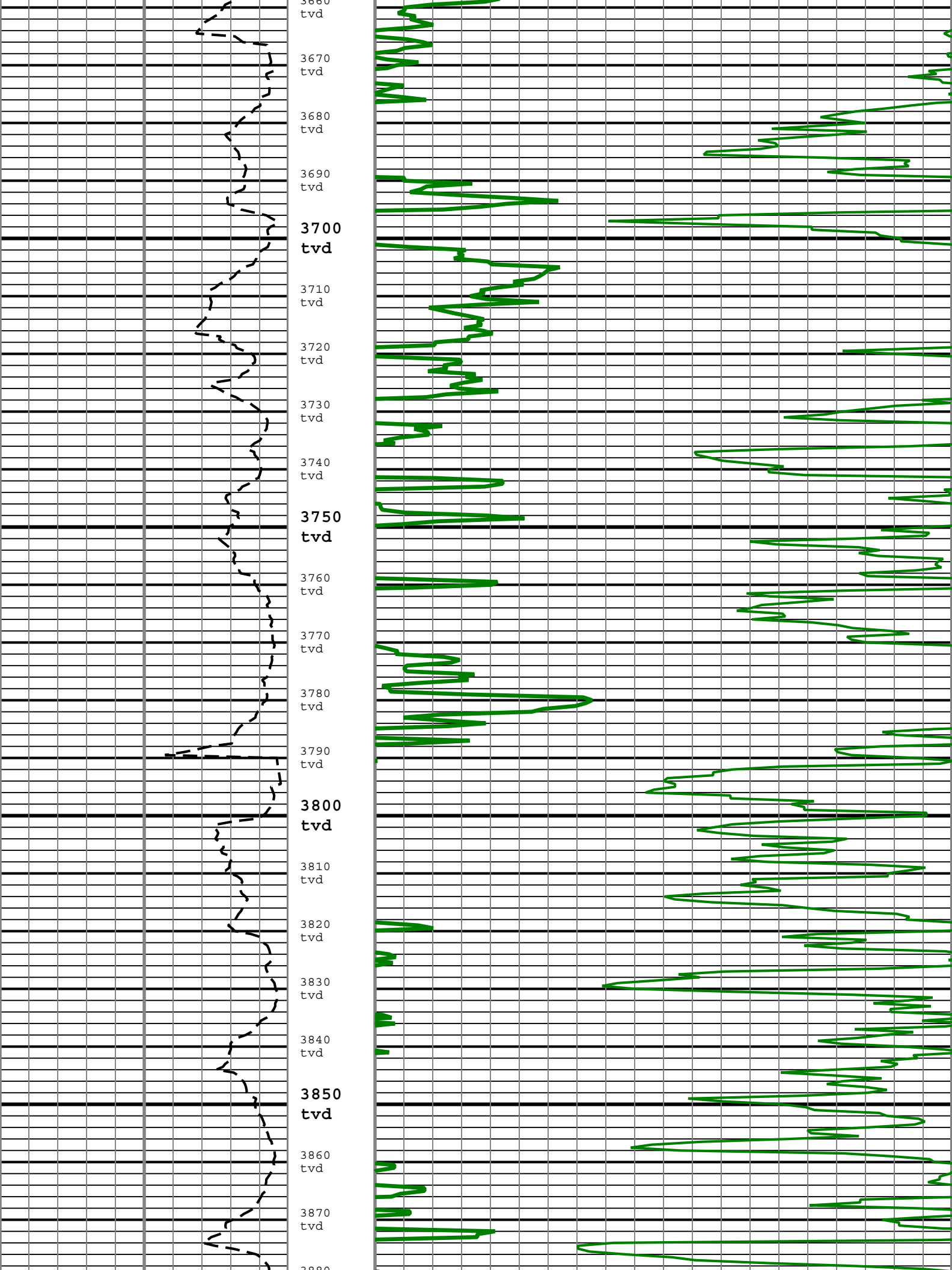


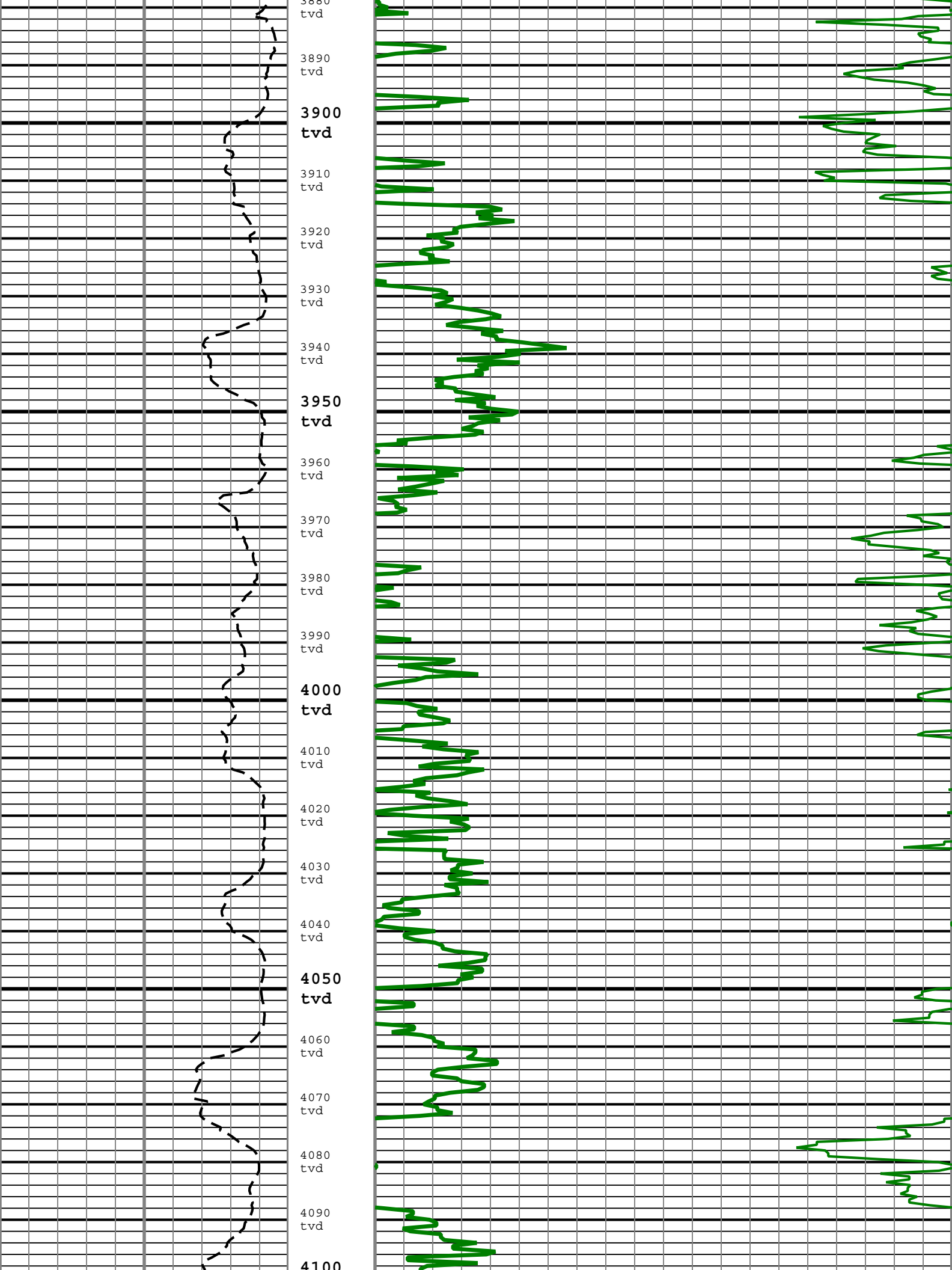


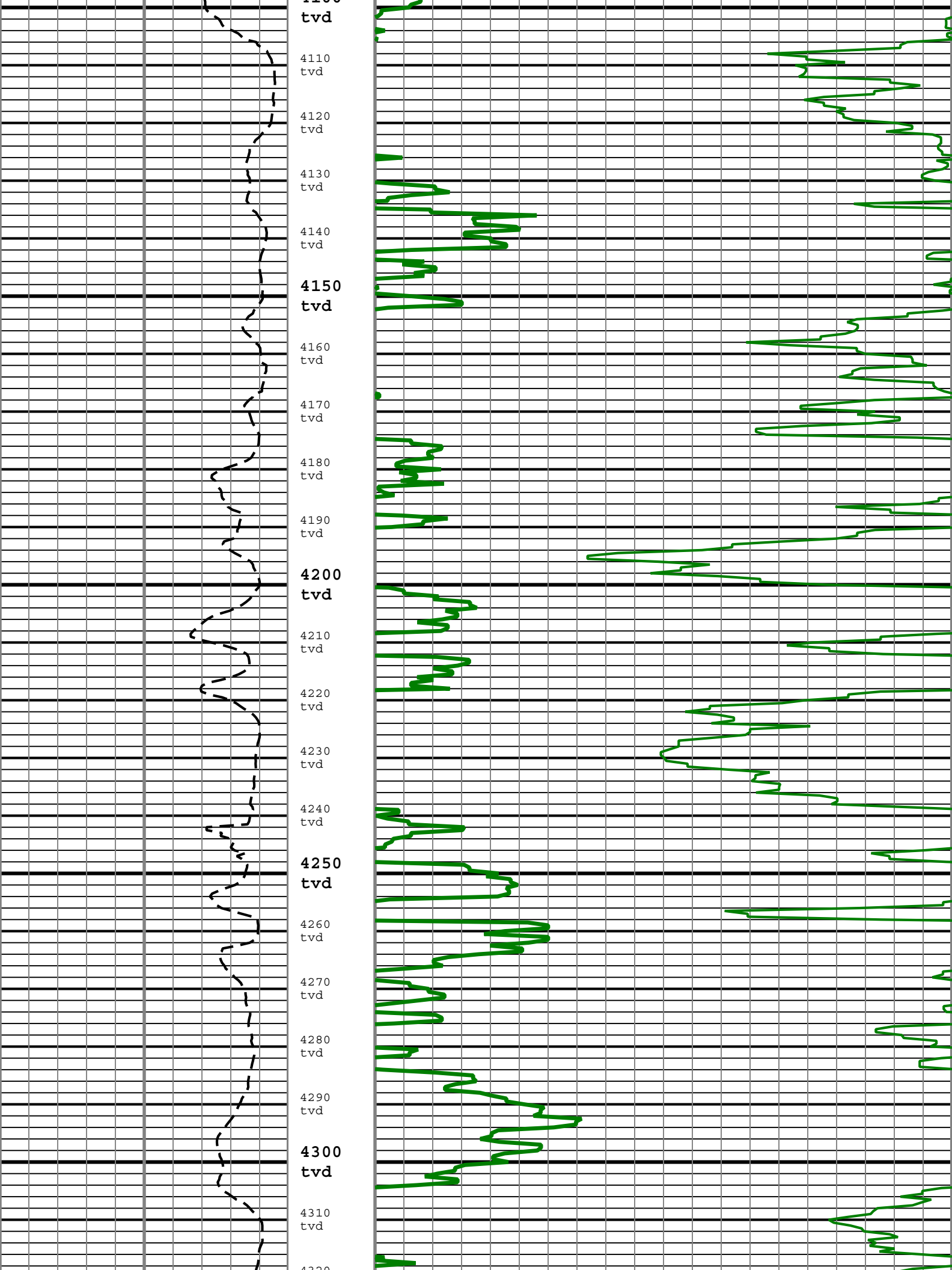


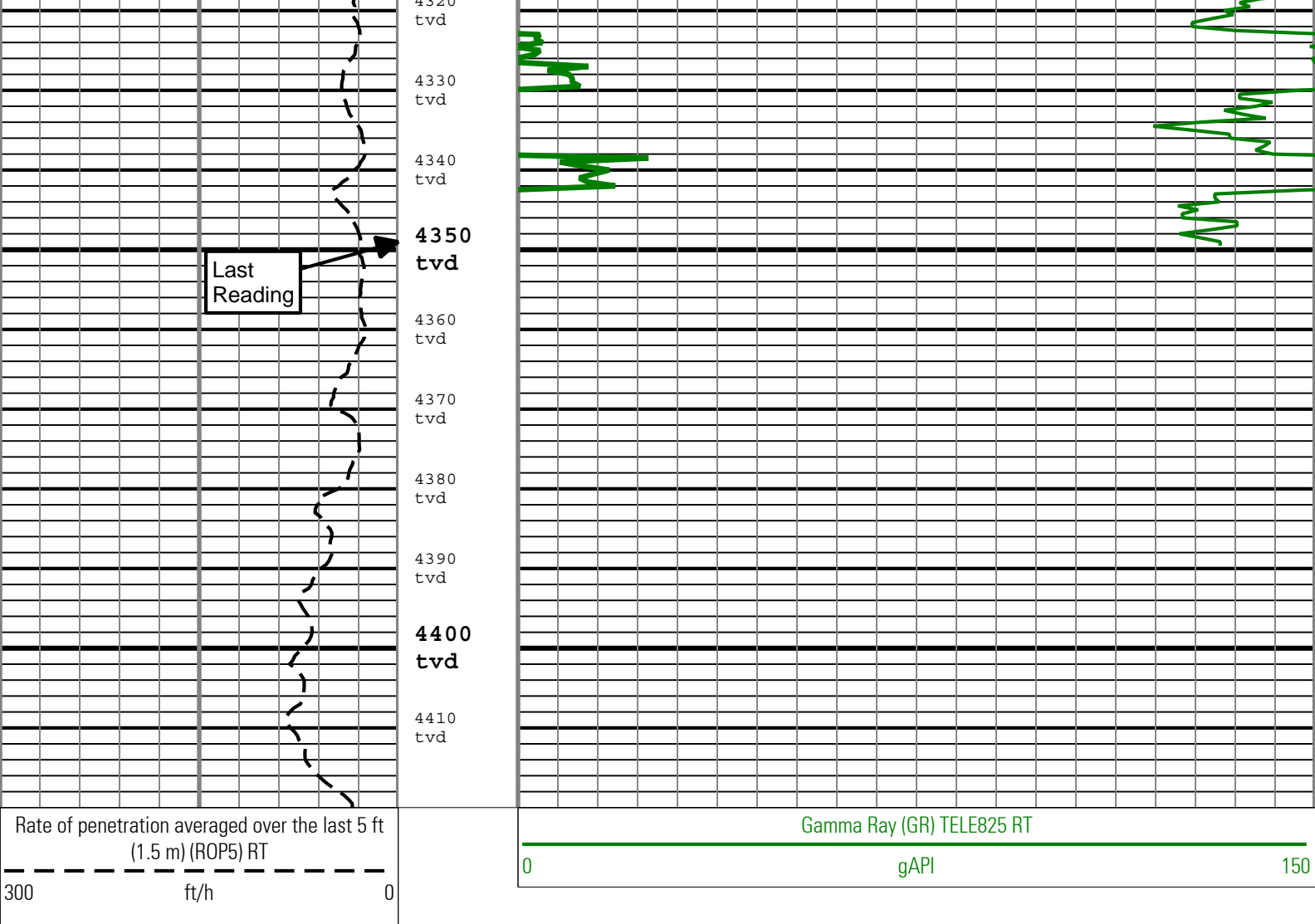












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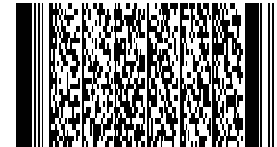
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DFD	Drilling Fluid Density	Borehole	Time Zoned	lbm/gal
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DFD	9.1	21-Dec-2010 23:00:00	22-Dec-2010 23:00:00	3709.92	3820.75
DFD	9.2	22-Dec-2010 23:00:00	23-Dec-2010 11:00:00	3820.75	4062.17
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All depth are at tool zero.

Tool Control Parameters				
Parameter	Description	ToolPath	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom	DrillWellflow	0.1	ft

OFFBITM_TH	Threshold for deciding whether the bit is on bottom	Drillworkknow	0.1	it
Company:	ExxonMobil Oil Corporation			
Well:	PCU 296 6B1			
Field:	Piceance Creek			
County:	Rio Blanco			
State:	Colorado			
Country:	United States			



Schlumberger

TeleScope Gamma Ray

1 in. / 100 ft and 5 in. / 100 ft True Vertical Depth

Real Time Log