

Company: **Esso Australia Pty Ltd**

Well: **MKA A12a**

Field: **Mackerel**

Rig: **Rig 22/Prod 2** Country: **Australia**

Rig: Rig 22/Prod 2 Field: Mackerel Location: Bass Strait Well: MKA A12a Company: Esso Australia Pty Ltd	2.5" Powercutter Tubing Cut Record 13-Dec-2009				
	LOCATION	Bass Strait Gippsland Basin		Elev.: K.B. 39.50 m G.L. -93.00 m D.F. 39.50 m	
		Permanent Datum: MSL		Elev.: 0.00 m	
		Log Measured From: D.F		39.50 m above Perm. Datum	
		Drilling Measured From: K.B			
	State: Victoria	Max. Well Deviation 53 deg	Longitude 148° 20' 28.54" E	Latitude 038° 28'50.13" S	

Logging Date	13-Dec-2009	
Run Number	1 ,2 & 3	
Depth Driller	3562.5 m	
Schlumberger Depth	3560 m	
Bottom Log Interval	3542 m	
Top Log Interval	3400 m	
Casing Fluid Type	Inhibited Sea Water	
Salinity		
Density	8.55 g/cm3	
Fluid Level	0 m	
BIT/CASING/TUBING STRING		
Bit Size	8.500 in	
From	3325 m	
To	3629 m	
Casing/Tubing Size	3.500 in	
Weight	9.3 lbm/ft	
Grade	J-55	
From	20.8 m	
To	3563.37 m	
Maximum Recorded Temperatures		
Logger On Bottom	Time	13-Dec-2009 14:50
Unit Number	Location	3827 AUSL
Recorded By	M.Pratt, S. Gilbert	
Witnessed By	M Wilson , A Smyth	

		Run 1
PVT DATA	Oil Density	
	Water Salinity	
	Gas Gravity	
	Bo	
	Bw	
	1/Bg	
	Bubble Point Pressure	
	Bubble Point Temperature	
	Solution GOR	
Maximum Deviation		53 deg
CEMENTING DATA		
Primary/Squeeze		Primary
Casing String No		
Lead Cement Type		
Volume		
Density		
Water Loss		
Additives		
Tail Cement Type		
Volume		
Density		
Water Loss		
Additives		
Expected Cement Top		
Logging Date		
Run Number		
Depth Driller		
Schlumberger Depth		
Bottom Log Interval		
Top Log Interval		
Casing Fluid Type		
Salinity		
Density		
Fluid Level		
BIT/CASING/TUBING STRING		
Bit Size		
From		
To		
Casing/Tubing Size		
Weight		
Grade		
From		
To		
Maximum Recorded Temperatures		
Logger On Bottom		Time
Unit Number		Location
Recorded By		
Witnessed By		

DEPTH SUMMARY LISTING

Date Created: 9-DEC-2009 2:47:06

Depth System Equipment

Depth Measuring Device	Tension Device	Logging Cable
Type: IDW-C Serial Number: 796 Calibration Date: 11-Nov-2009 Calibrator Serial Number: 30 Calibration Cable Type: 2-32ZT Wheel Correction 1: -1 Wheel Correction 2: 1	Type: CMTD-B/A Serial Number: 1711 Calibration Date: 04-MAR-200 Calibrator Serial Number: 1173 Number of Calibration Points: 0	Type: 2-32ZT Serial Number: 24187 Length: 6043 M Conveyance Method: Wireline Rig Type: Offshore Fixed

Depth Control Parameters

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	UNKNOWN
Reference Log Run Number:	UNKNOWN
Reference Log Date:	UNKNOWN

Depth Control Remarks

1. Log correlated to Exxon Mobile tubing Tally incorporated in approved program
2. IDW used as primary depth control
3. Z-chart used as backup.
4. CMTD calibration: a=1.32E-5, B=0.8513, & C=2.868
5. Dual Packoff Used
6.

DISCLAIMER

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OTHER SERVICES1	OTHER SERVICES2
OS1: None	OS1:
OS2:	OS2:
OS3:	OS3:
OS4:	OS4:
OS5:	OS5:
REMARKS: RUN NUMBER 1	REMARKS: RUN NUMBER 2
Log correlated to Tubing Tally provided by client.	
Objective: Run 2.5" Drift run with Dummy Cutter Tool String.	
Cut production tubing above Packer @ 3540m MDKB to recover tubing	
Max deviation 53.4 deg @ 2950m MDKB	
Deviation 50-54 deg from 775m MDKB to TD	
Secure Initiated	
CCL to Bottom of Dummy Cutter Tool String = 1.9m	

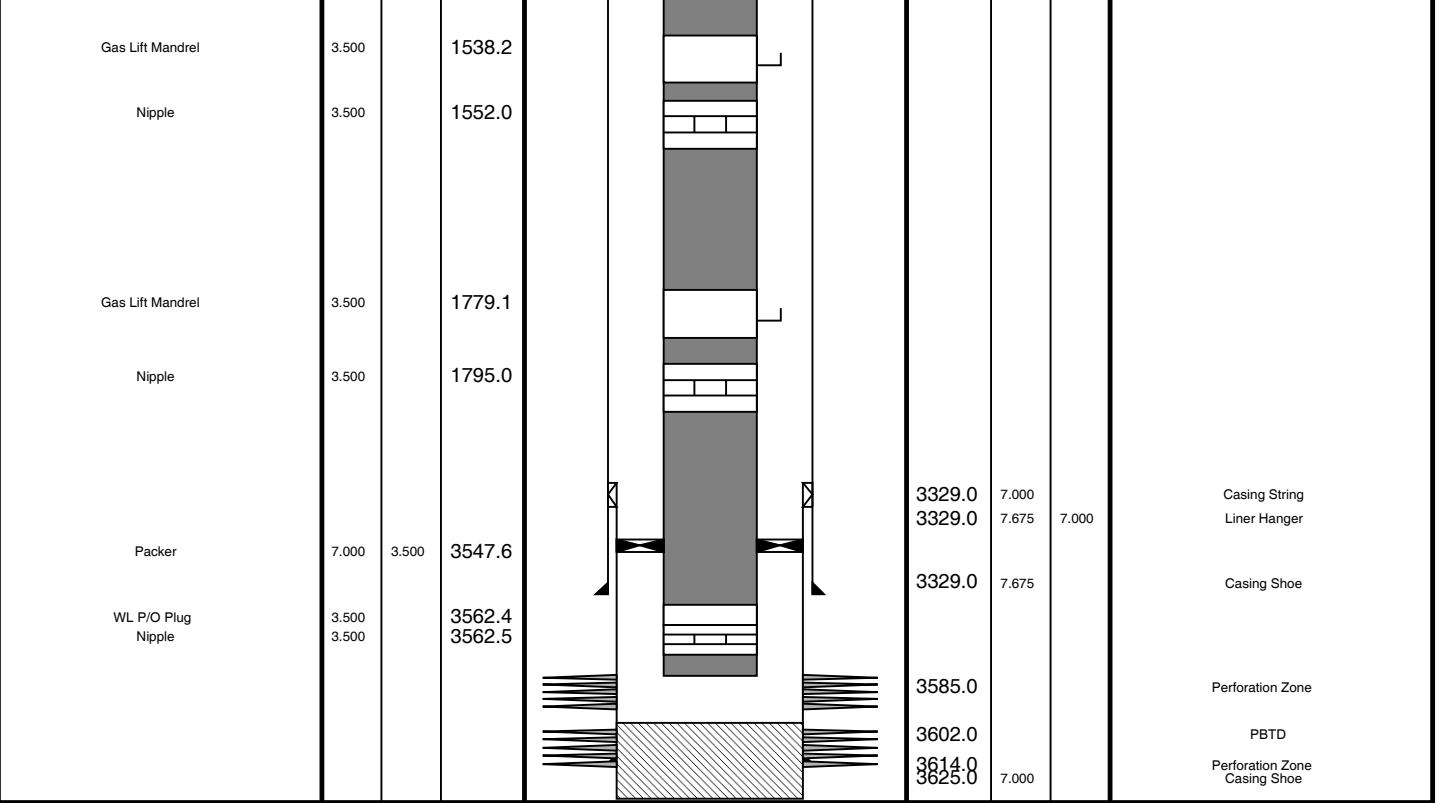
CCL to Bottom of Dammy Cutter Foot String
Powercutter:
Top Shot @ 3540m MDKB.
CCL to Top Shot: 1.9 m
CCL stop depth: 3538.1m MDKB.
Powercutter shot however pipe was not free. Had to cut Tubing again @ 3539m MDKB
CCL to Top Shot: 1.9m
CCL stop depth: 3537.1m MDKB
Tubing come free after 2nd Powercutter was fired.
SBL Crew -- Days: D. Watts, A Pratt
Nights: P Battams , G Blandford

RUN 1			RUN 2		
SERVICE ORDER #:		4500610525	SERVICE ORDER #:		
PROGRAM VERSION:		17C0-154	PROGRAM VERSION:		
FLUID LEVEL:		0 m	FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT DESCRIPTION					
RUN 1			RUN 2		

SURFACE EQUIPMENT		SURFACE EQUIPMENT	
WITM (SHM)		WITM (SHM)	

DOWNHOLE EQUIPMENT		DOWNHOLE EQUIPMENT	
MH-22 MH-22	5.48		
AH-38	5.00		
EQF-43 EQF-43 201	4.91	MH-22 MH-22	4.57
		AH-38	4.09
		EQF-43 EQF-43 201	4.00
UPCT-A UPCC-A UPCH-A	3.09		
Gamma Ray	0.79		
Casing Co		CCL-LA	2.18



Job Events Summary

MAXIS Field Log

Schlumberger Job Event Summary							
Time			Elapsed Time	Depth (M)		File	
Log Pass (up)	13-Dec-2009	15:08	000:26	3546.3	- 1747.6	PERFO_022LUP	
Log Pass (up)	13-Dec-2009	17:36	000:03	1804.4	- 1769.5	PERFO_032LUP	
Log Pass (up)	13-Dec-2009	18:07	000:06	3538.4	- 3485.1	PERFO_036LUP	
Log Pass (up)	13-Dec-2009	19:22	000:06	3538.0	- 3474.9	PERFO_038LUP	
Log Pass (up)	14-Dec-2009	1:07	000:04	1798.6	- 1757.9	PERFO_045LUP	
Log Pass (up)	14-Dec-2009	1:46	000:05	3540.9	- 3485.2	PERFO_048LUP	
Log Pass (up)	14-Dec-2009	1:54	000:08	3542.5	- 3463.7	PERFO_049LUP	

Company: Esso Australia Pty Ltd

Well: MKA A12a

Output DLIS Files

DEFAULT PERFO_049LUP FN:48 PRODUCER 14-Dec-2009 01:54

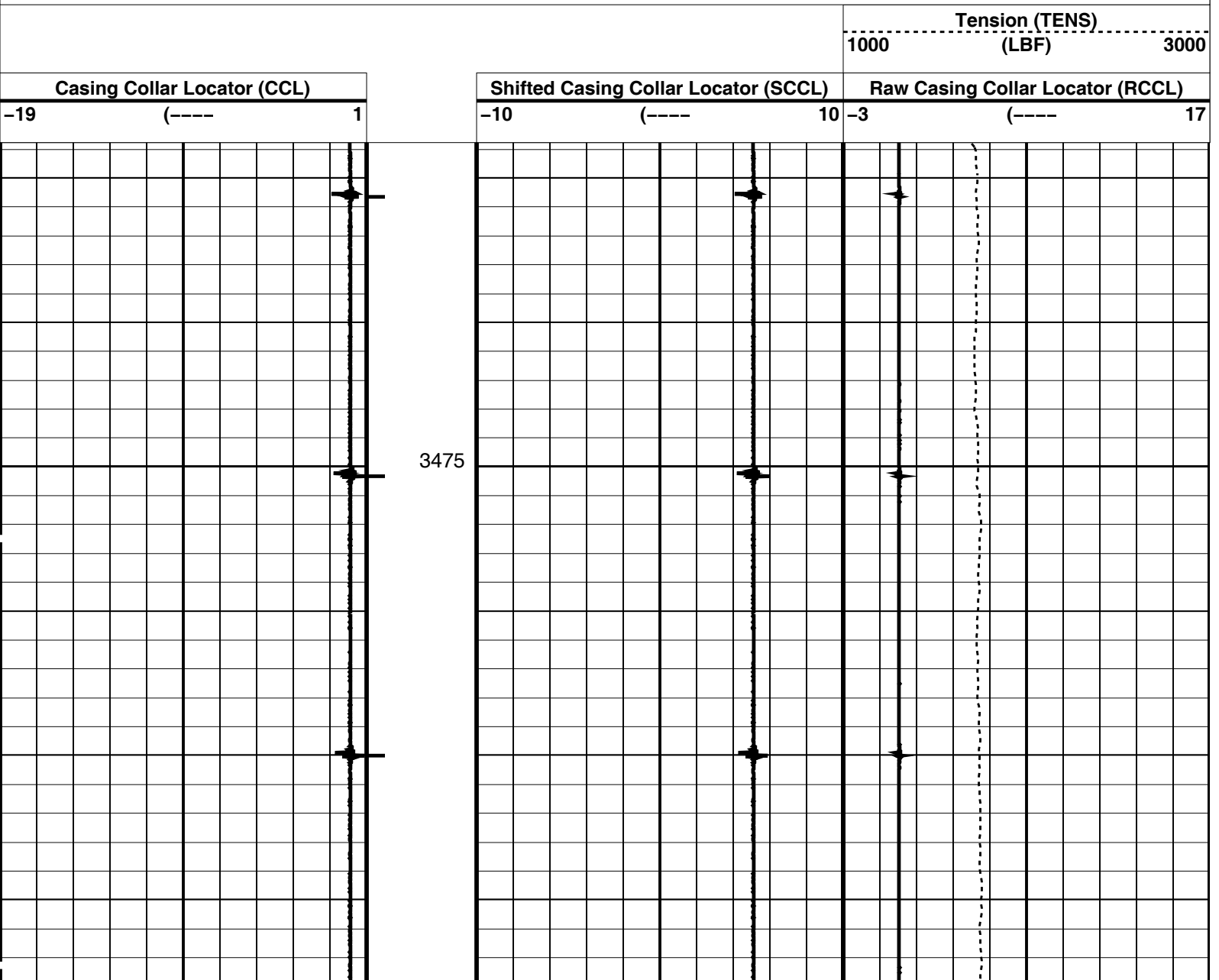
OP System Version: 17C0-154

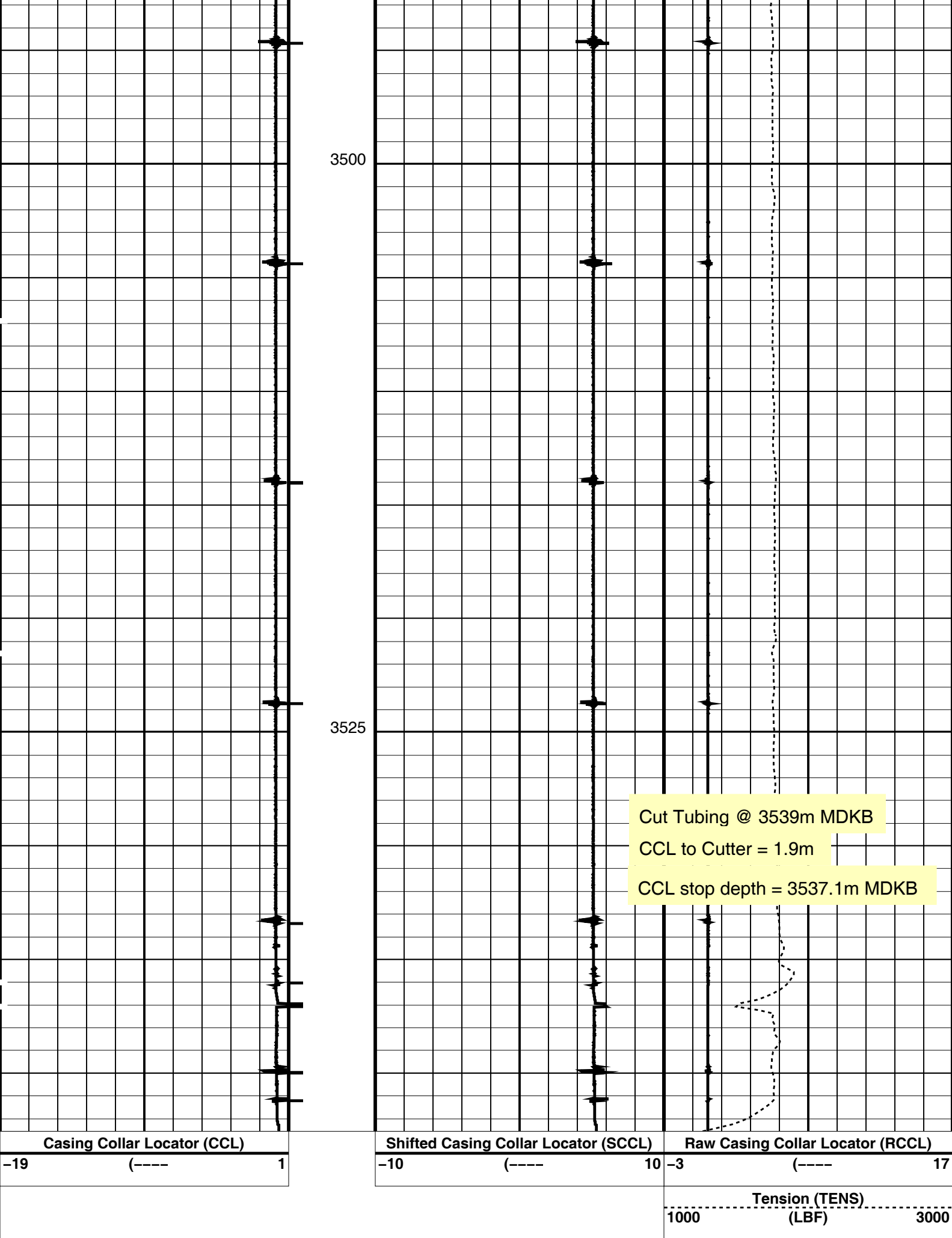
SHM_GUN 17C0-154 CCL-L 17C0-154

PIP SUMMARY

← Casing Collars

Time Mark Every 60 S





Time Mark Every 60 S

Casing Collars

Parameters

DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.3 V
	CCL Detection Level	

Format: PERFO

Vertical Scale: 1:200


Graphics File Created: 14-Dec-2009 01:54

OP System Version: 17C0-154

SHM_GUN	17C0-154	CCL-L	17C0-154
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Output DLIS Files

DEFAULT	PERFO_049LUP	FN:48	PRODUCER	14-Dec-2009 01:54
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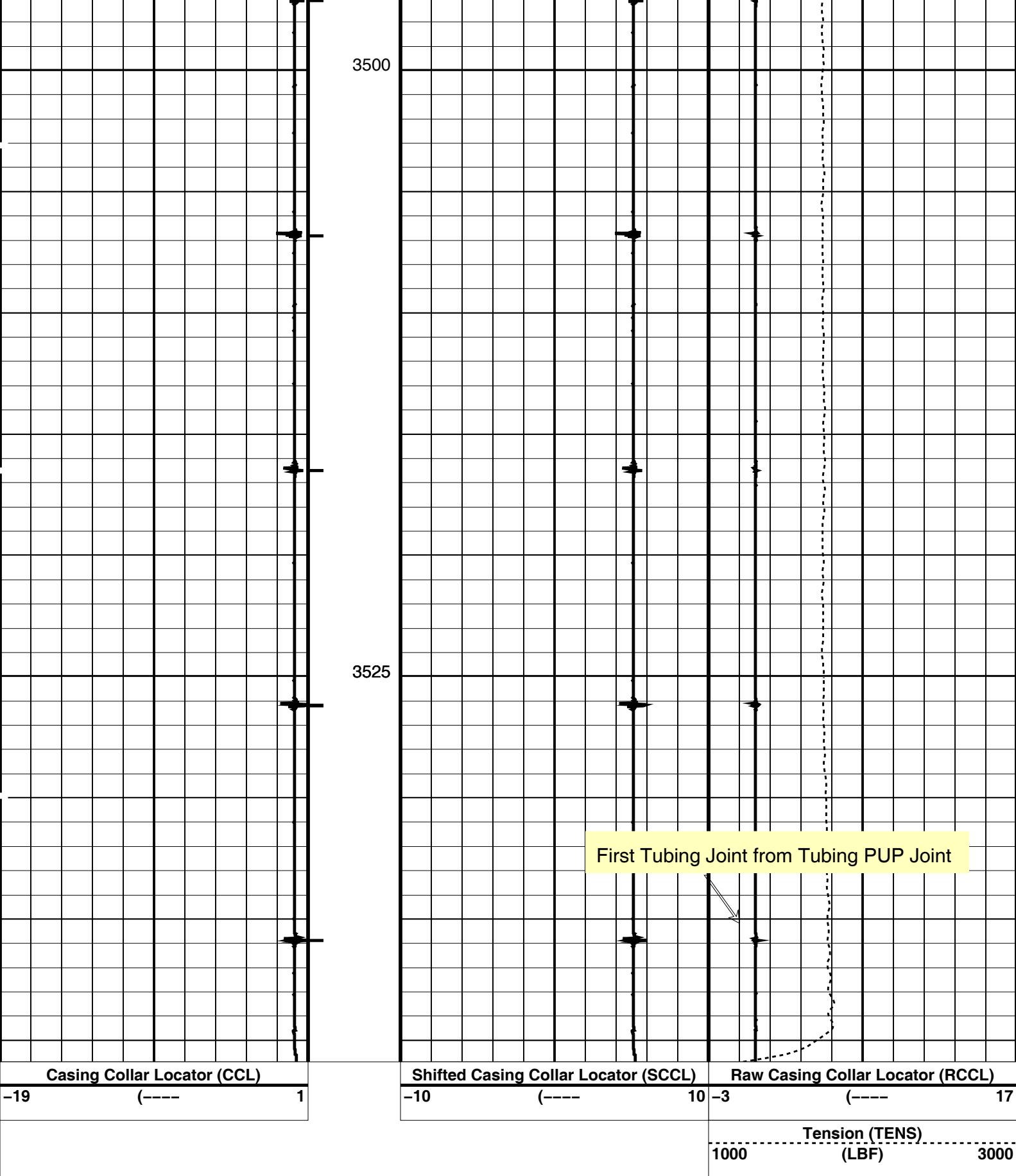


Power Cutter # 2

Correlation Pass

MAXIS Field Log

Company: Esso Australia Pty Ltd						Well: MKA A12a					
Output DLIS Files											
DEFAULT		PERFO_048LUP		FN:47		PRODUCER		14-Dec-2009 01:46		3540.9 M 3485.2 M	
OP System Version: 17C0-154											
SHM_GUN		17C0-154		CCL-L		17C0-154					
PIP SUMMARY											
Time Mark Every 60 S											
Casing Collars											
						Tension (TENS) ----- 1000 (LBF) 3000					
Casing Collar Locator (CCL)						Shifted Casing Collar Locator (SCCL)			Raw Casing Collar Locator (RCCL)		
-19 (----) 1						-10 (----) 10			-3 (----) 17		
<div><div></div></div>						<div><div></div></div>			<div><div></div></div>		



PIP SUMMARY

Time Mark Every 60 S

← Casing Collars

Parameters		
DLIS Name	Description	Value
CCL-L: Casing Collar Locator		

CCLD
CCLT

CCL reset delay
CCL Detection Level

12 IN
0.3 V

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 14-Dec-2009 01:46

OP System Version: 17C0-154

SHM_GUN 17C0-154 CCL-L 17C0-154

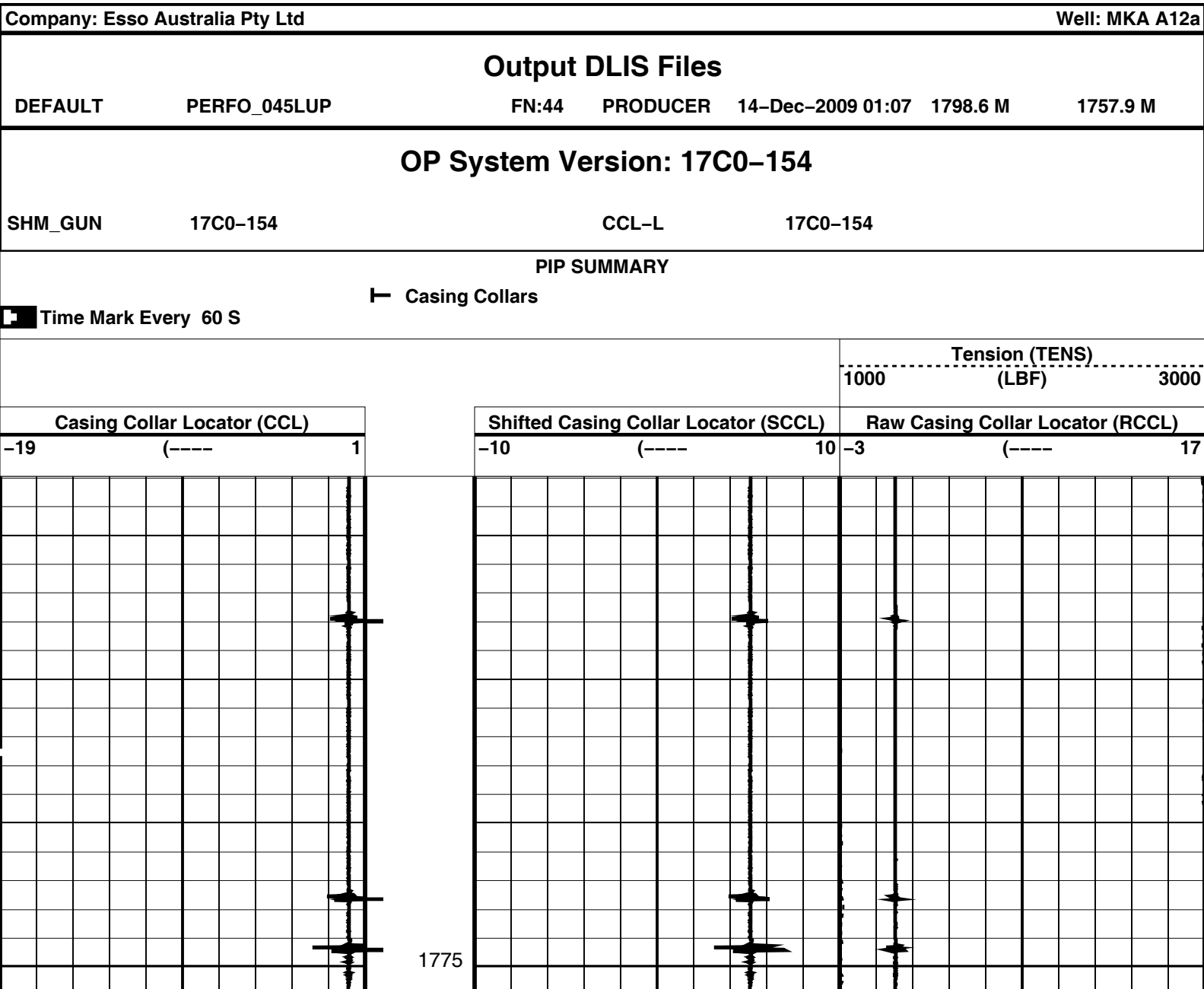
Output DLIS Files

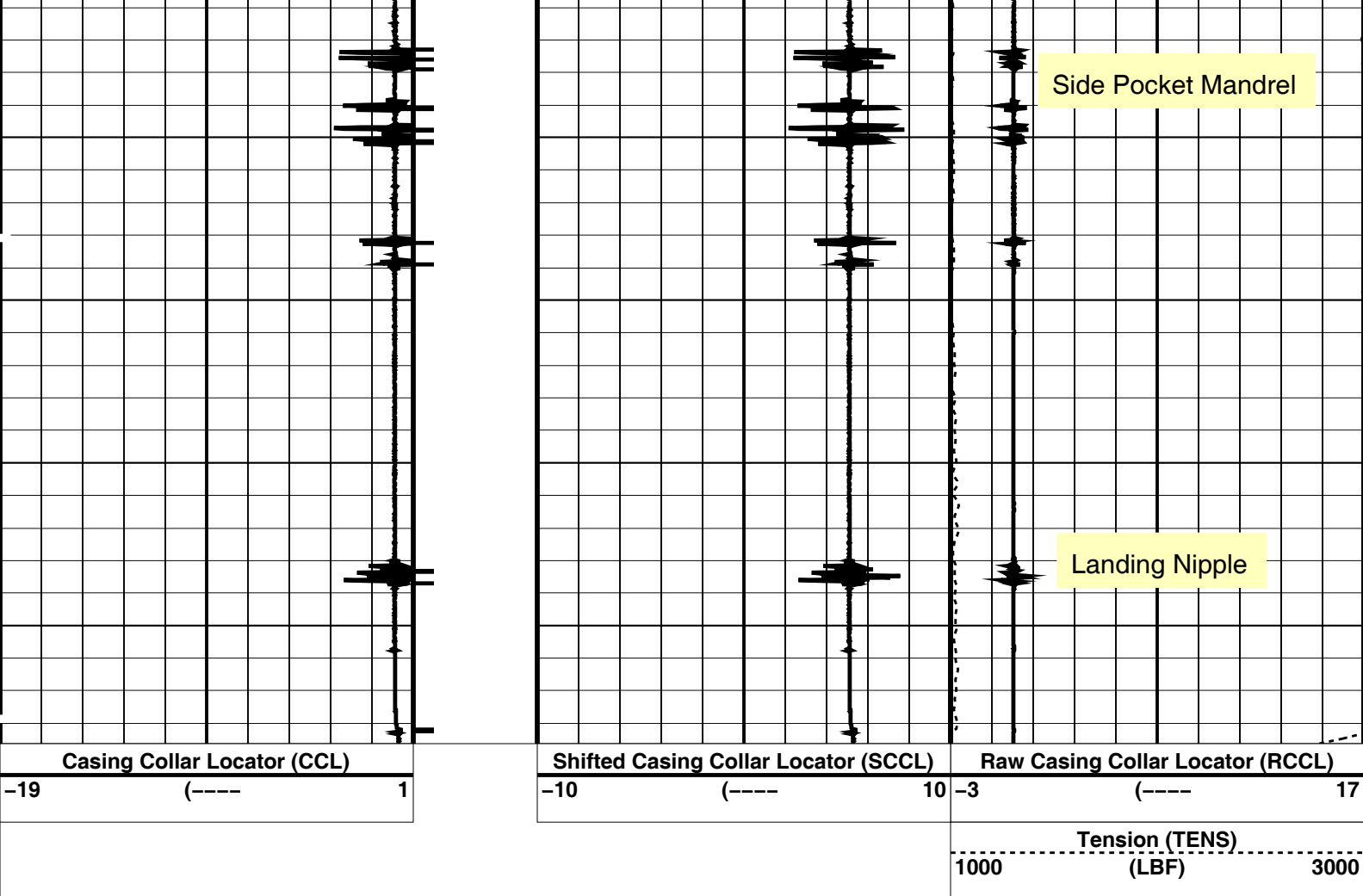
DEFAULT PERFO_048LUP FN:47 PRODUCER 14-Dec-2009 01:46

Schlumberger

Correlate Power Cutter 2nd Run
Side Pocket Mandrel

MAXIS Field Log





PIP SUMMARY

← Casing Collars

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.3 V
	CCL Detection Level	

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 14-Dec-2009 01:07

OP System Version: 17C0-154

SHM_GUN 17C0-154 CCL-L 17C0-154

Output DLIS Files

DEFAULT PERFO_045LUP FN:44 PRODUCER 14-Dec-2009 01:07

Schlumberger

**Power Cutter
Log Away from Shot**

Output DLIS Files

DEFAULTPERFO_038LUPFN:37PRODUCER13-Dec-2009 19:22

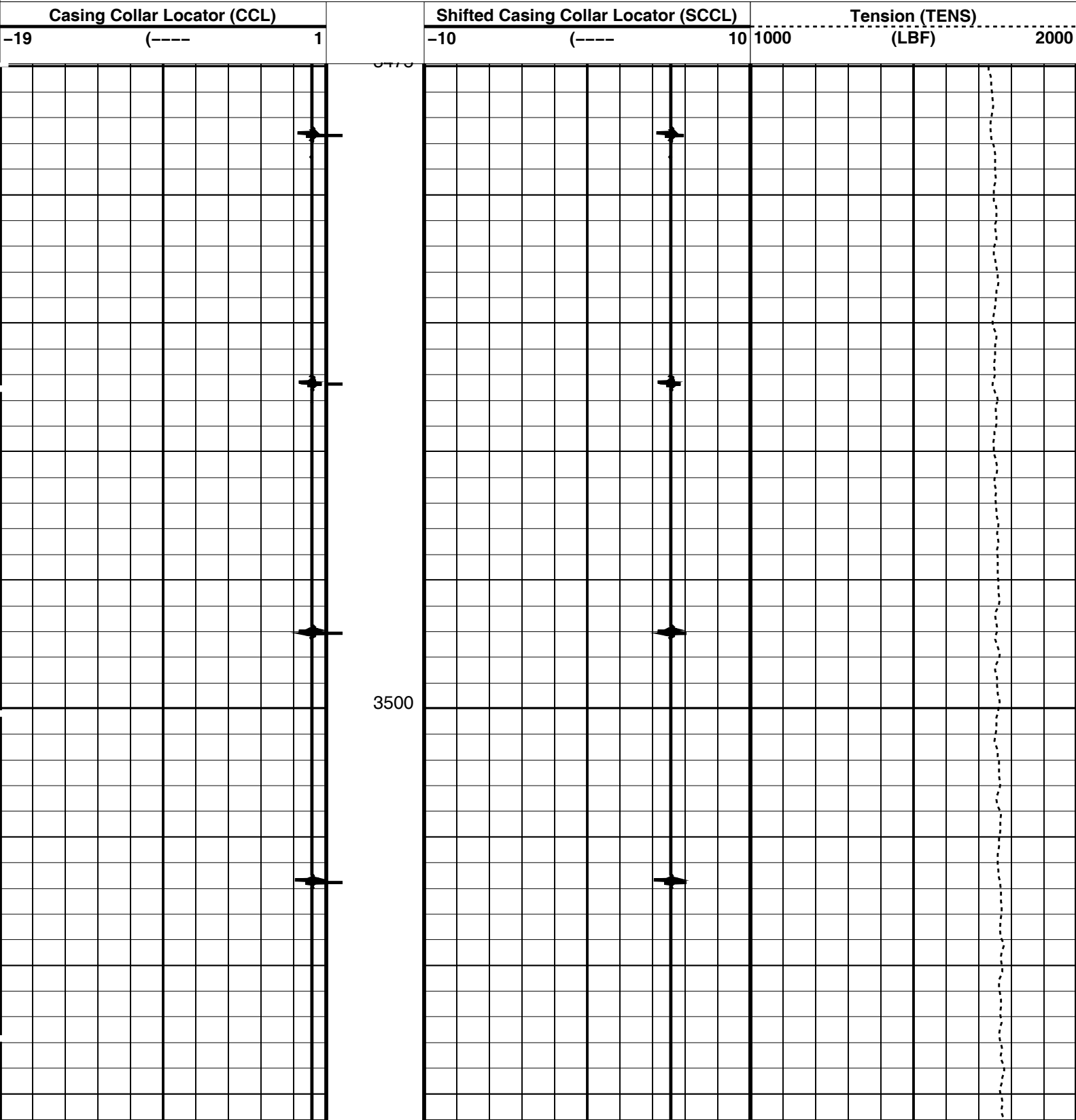
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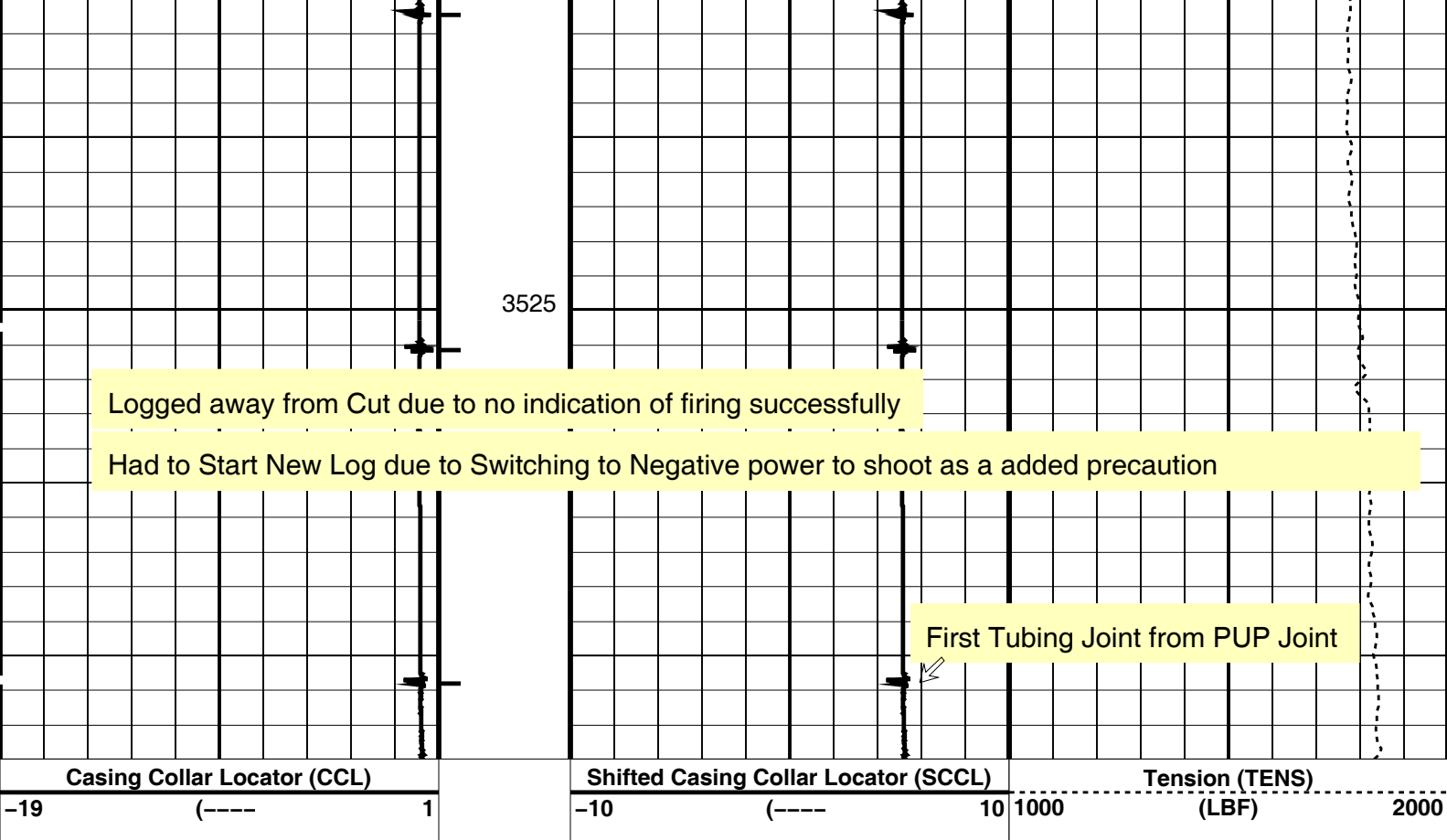
SHM_GUN17C0-154CCL-L17C0-154

PIP SUMMARY

Time Mark Every 60 S

Casing Collars





PIP SUMMARY

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCLD	CCL-L: Casing Collar Locator	12 IN
CCLT	CCL reset delay	0.3 V
	CCL Detection Level	

Format: PERFO Vertical Scale: 1:200 Graphics File Created: 13-Dec-2009 19:22

OP System Version: 17C0-154

SHM_GUN 17C0-154 CCL-L 17C0-154

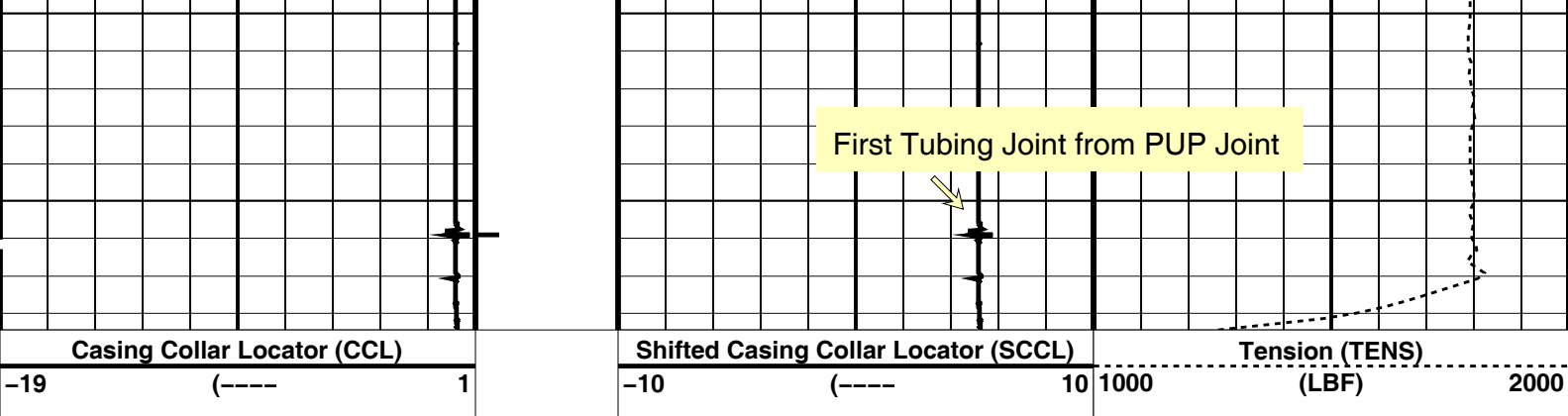
Output DLIS Files

DEFAULT PERFO_038LUP FN:37 PRODUCER 13-Dec-2009 19:22

Schlumberger

Power Cutter
Correlation Pass

MAXIS Field Log



PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S

Parameters

DLIS Name	Description	Value
CCL-L: Casing Collar Locator		
CCLD	CCL reset delay	12 IN
CCLT	CCL Detection Level	0.3 V

Format: PERFO Vertical Scale: 1:200

Graphics File Created: 13-Dec-2009 18:07

OP System Version: 17C0-154

SHM_GUN 17C0-154 CCL-L 17C0-154

Output DLIS Files

DEFAULT PERFO_036LUP FN:35 PRODUCER 13-Dec-2009 18:07

Schlumberger

**Correlate Power Cutter to
Side Pocket Mandrel**

MAXIS Field Log

Company: Esso Australia Pty Ltd

Well: MKA A12a

Output DLIS Files

DEFAULT PERFO_032LUP FN:31 PRODUCER 13-Dec-2009 17:36

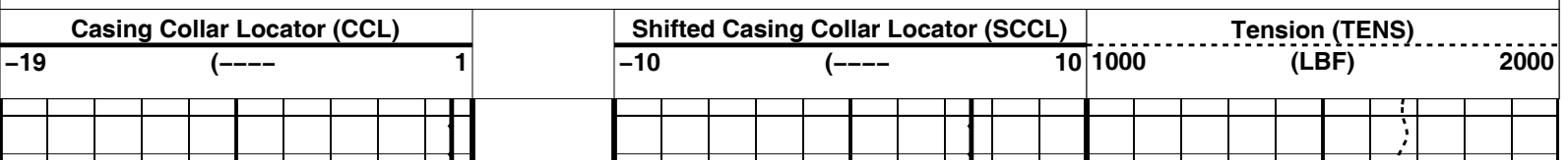
OP System Version: 17C0-154

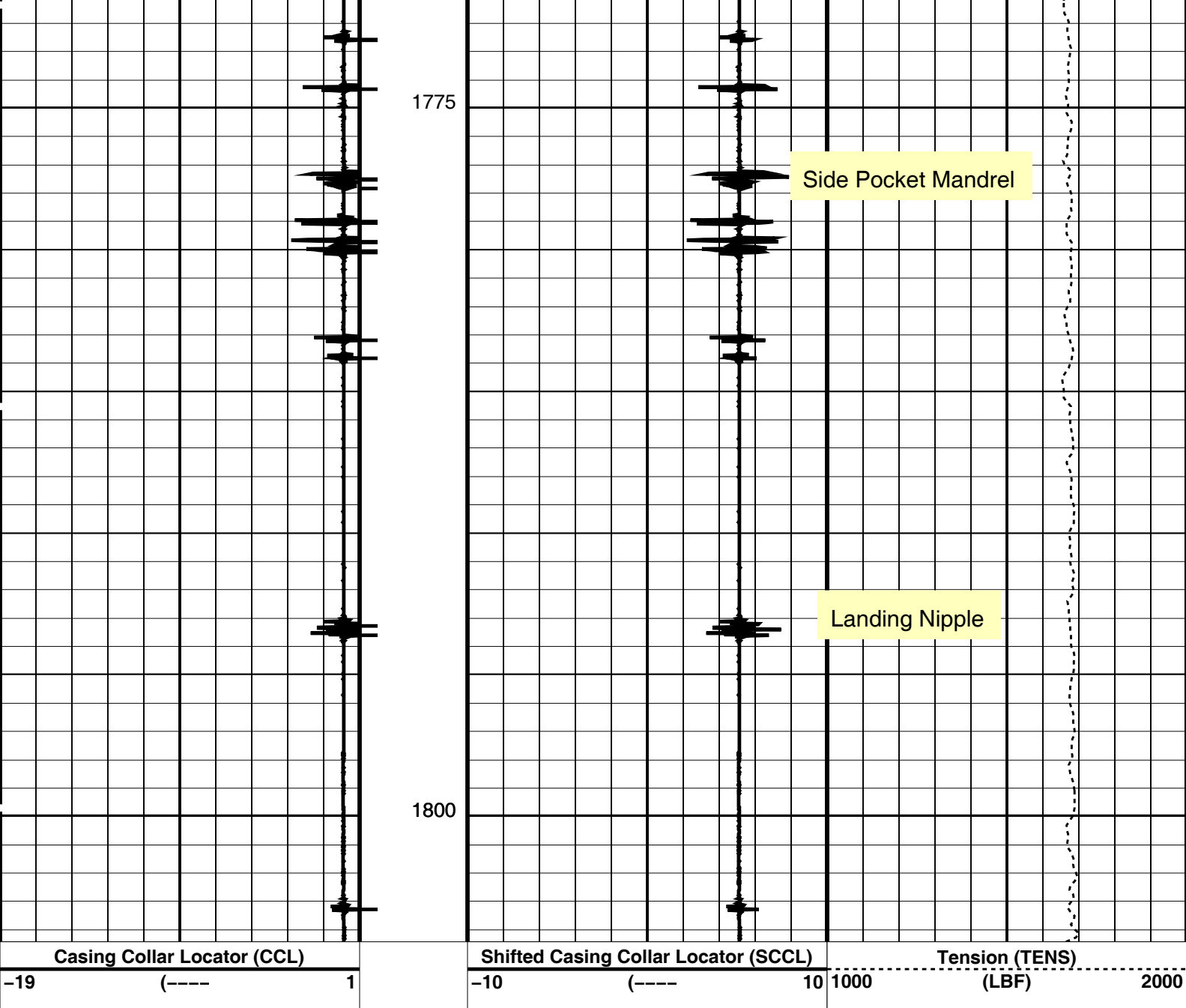
SHM_GUN 17C0-154 CCL-L 17C0-154

PIP SUMMARY

└─ Casing Collars

Time Mark Every 60 S





PIP SUMMARY			
Time Mark Every 60 S		Casing Collars	
Parameters			
DLIS Name	Description	Value	
CCL-L: Casing Collar Locator			
CCLD	CCL reset delay	12	IN
CCLT	CCL Detection Level	0.3	V
Format: PERFO	Vertical Scale: 1:200	Graphics File Created: 13-Dec-2009 17:36	
OP System Version: 17C0-154			
SHM_GUN	17C0-154	CCL-L	17C0-154
Output DLIS Files			
DEFAULT	PERFO_032LUP	FN:31	PRODUCER 13-Dec-2009 17:36

MAXIS Field Log

Company: Esso Australia Pty Ltd

Well: MKA A12a

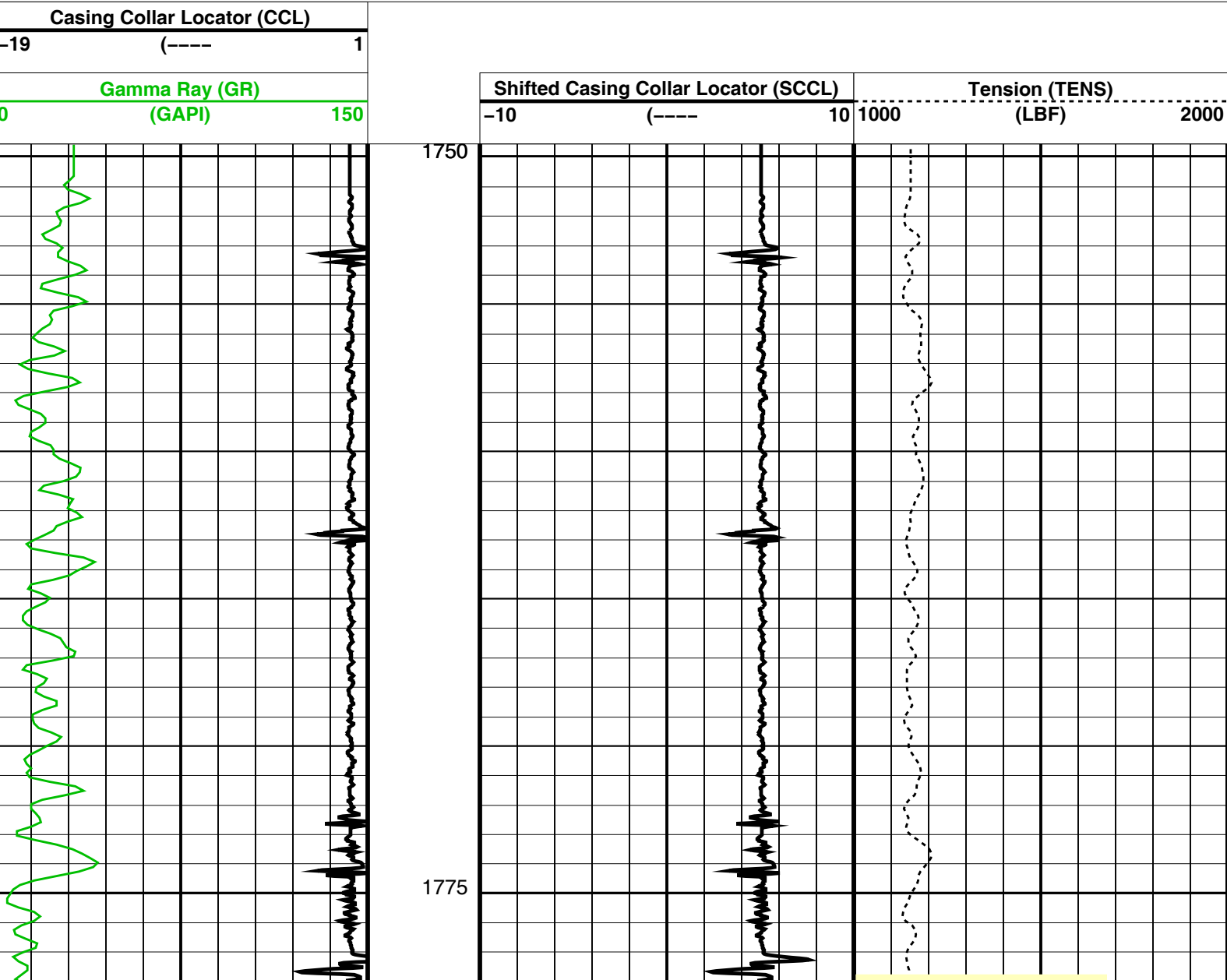
Input DLIS Files					
DEFAULT	PERFO_022LUP	FN:21	PRODUCER	13-Dec-2009 15:08	3546.3 M 1747.6 M
Output DLIS Files					
DEFAULT	PERFO_023PUP	FN:22	PRODUCER	13-Dec-2009 15:35	3549.1 M 1749.4 M

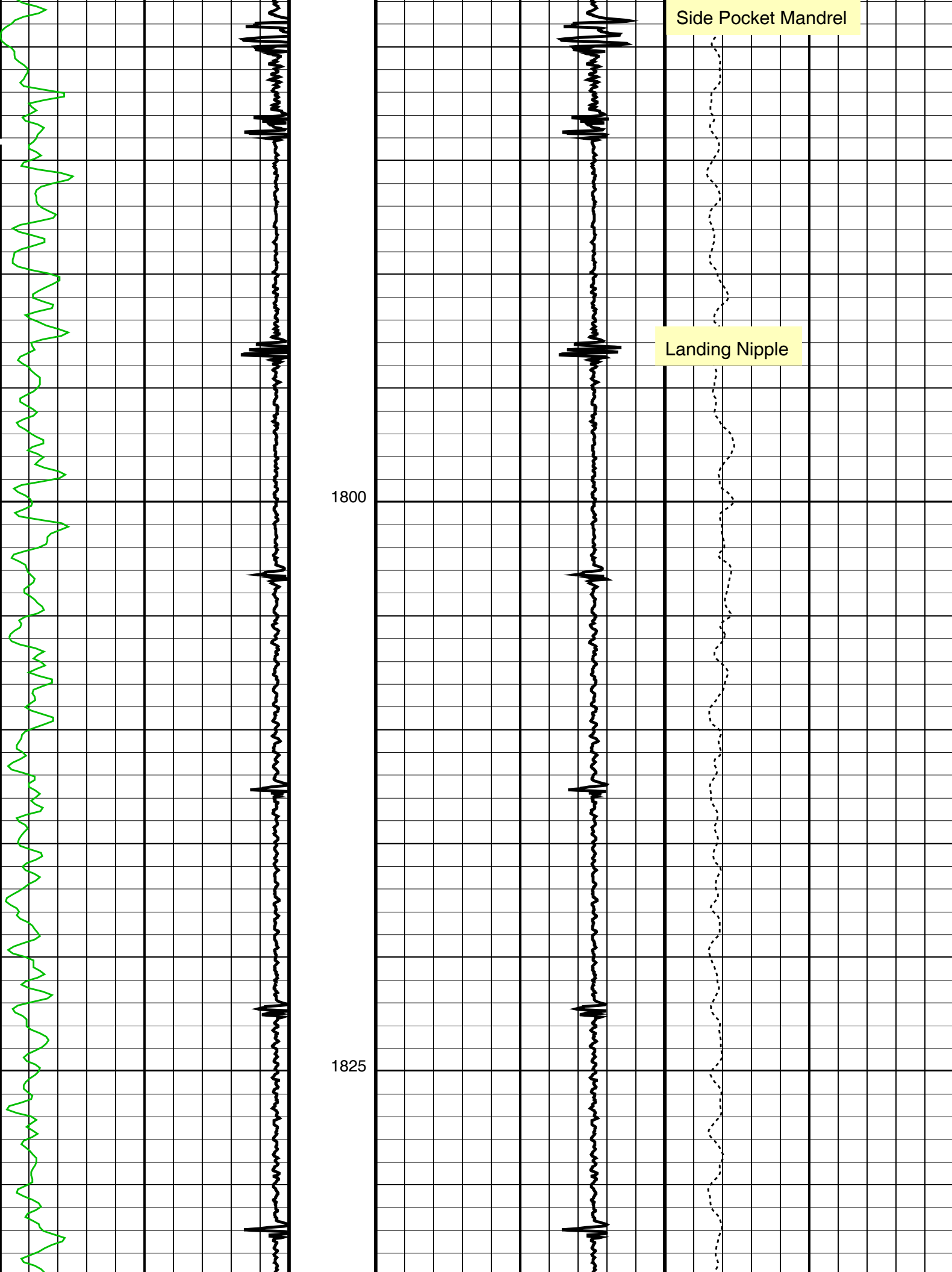
OP System Version: 17C0-154

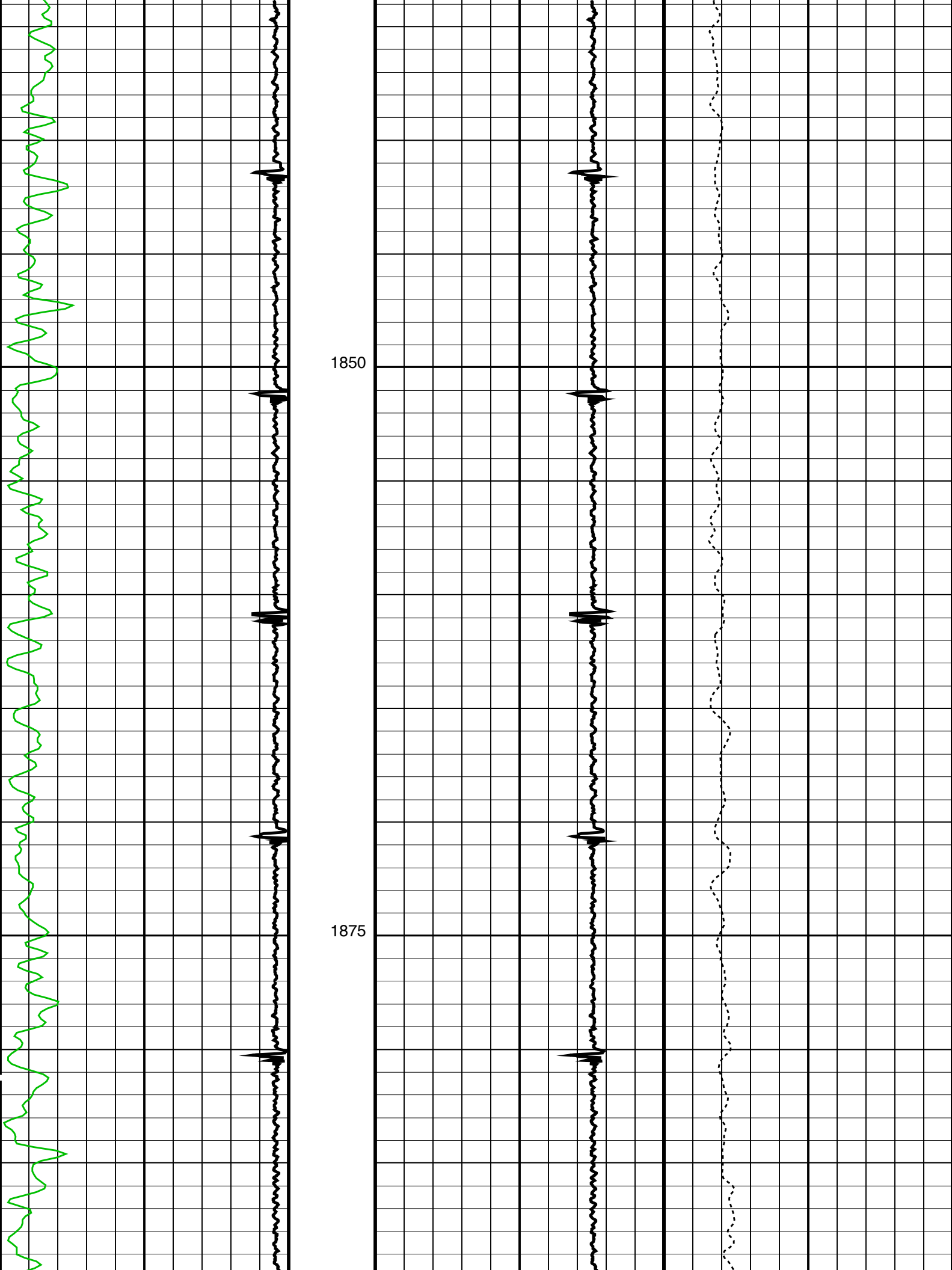
SHM_GUN-2.5"	Drift	UPCT-A	17C0-154
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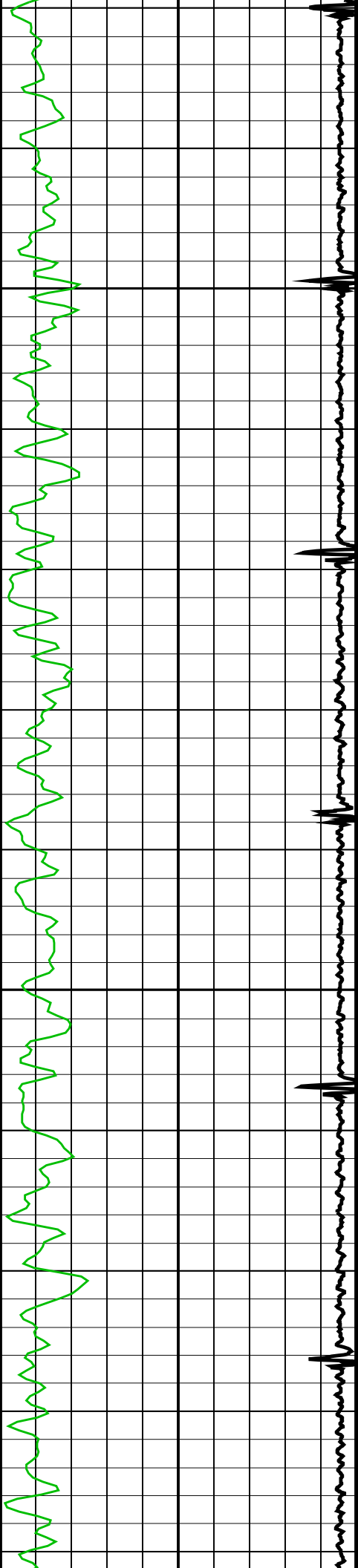
PIP SUMMARY

 Time Mark Every 60 S



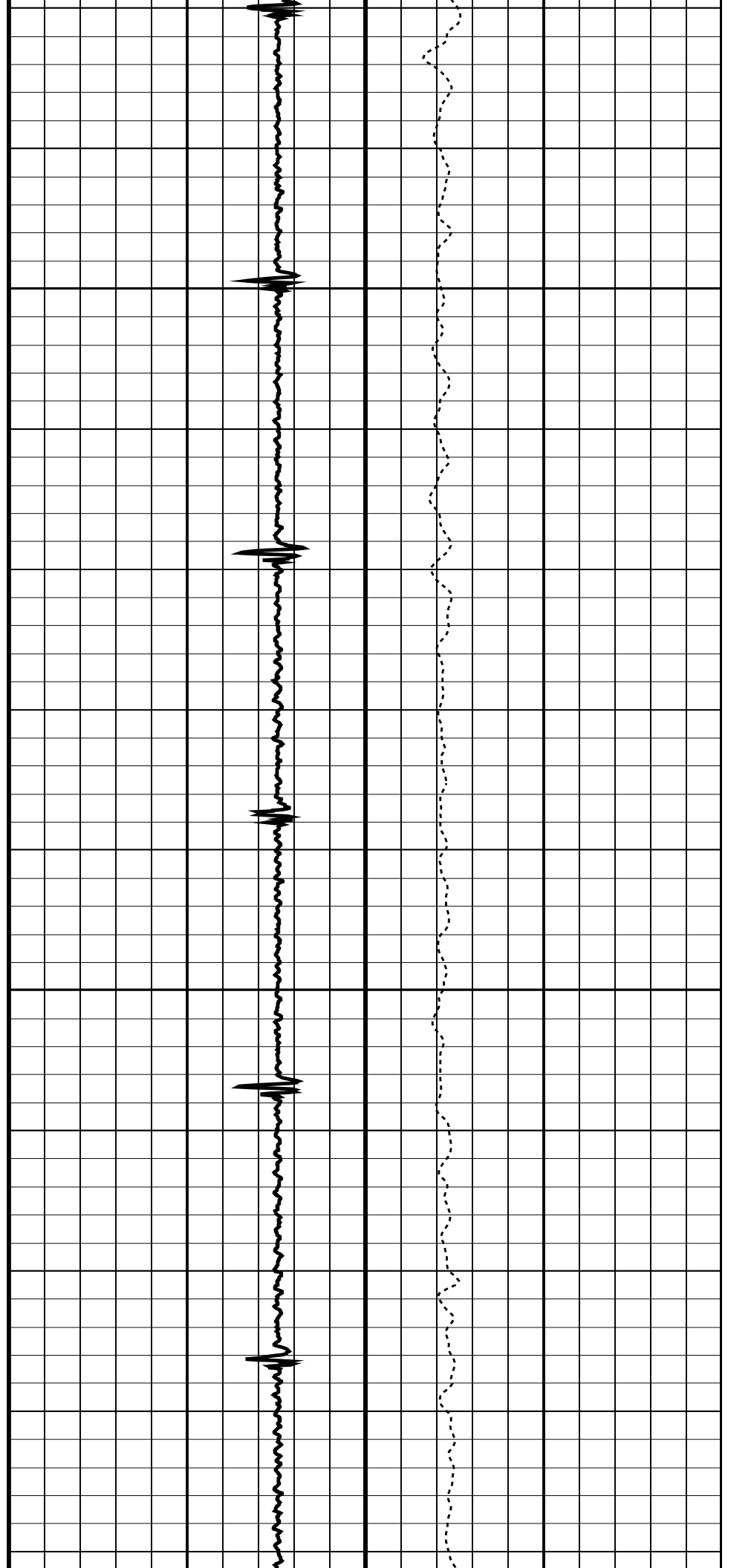


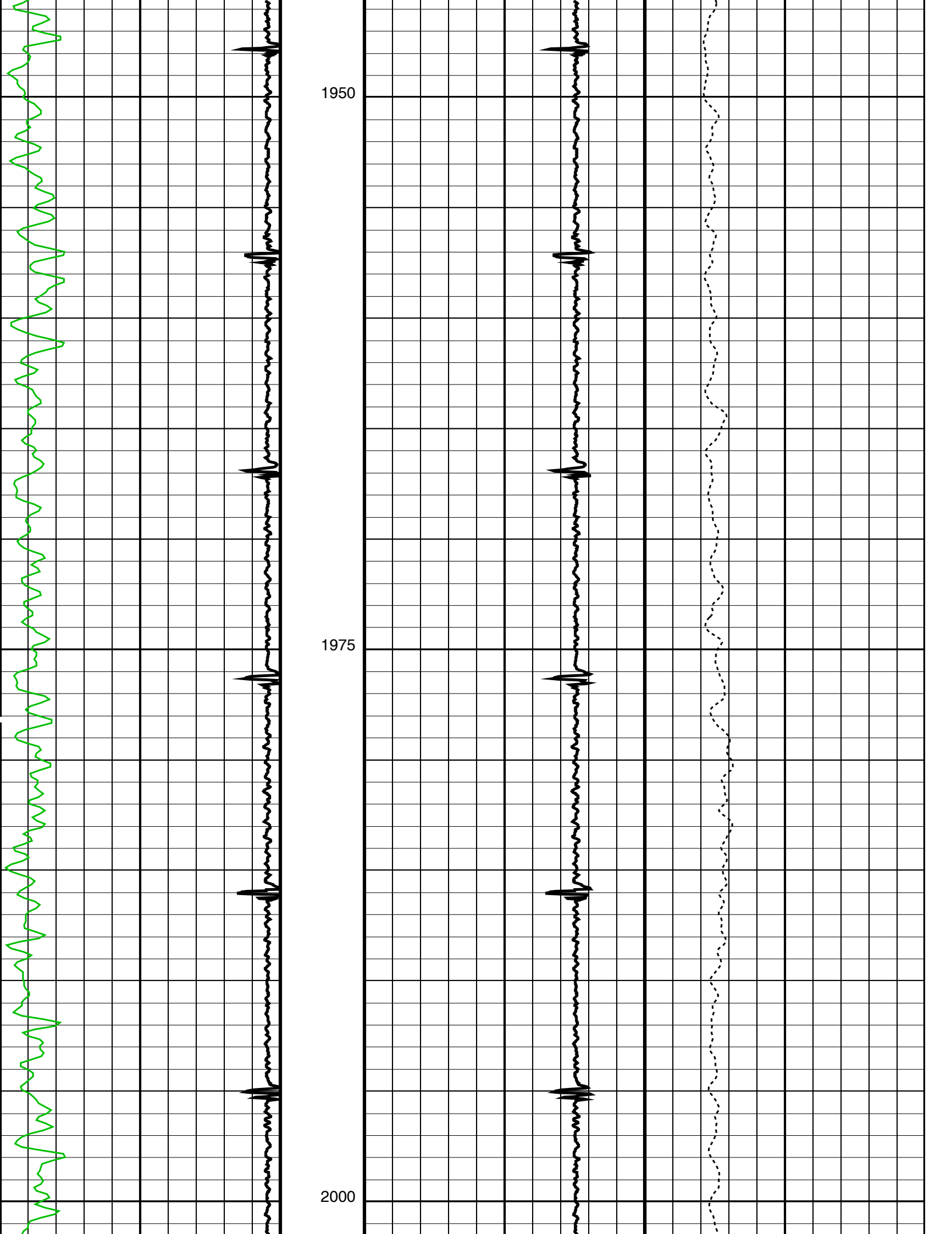


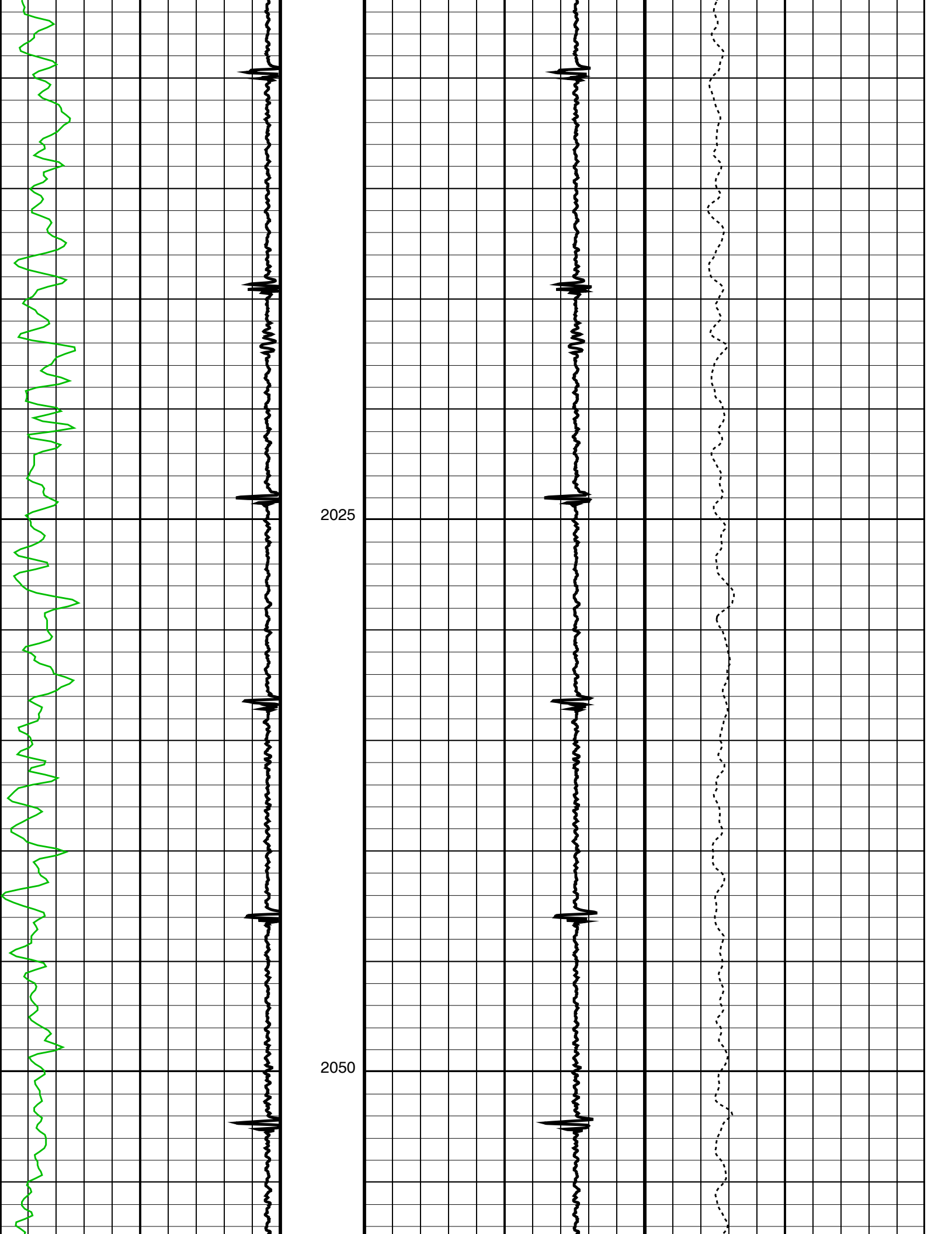


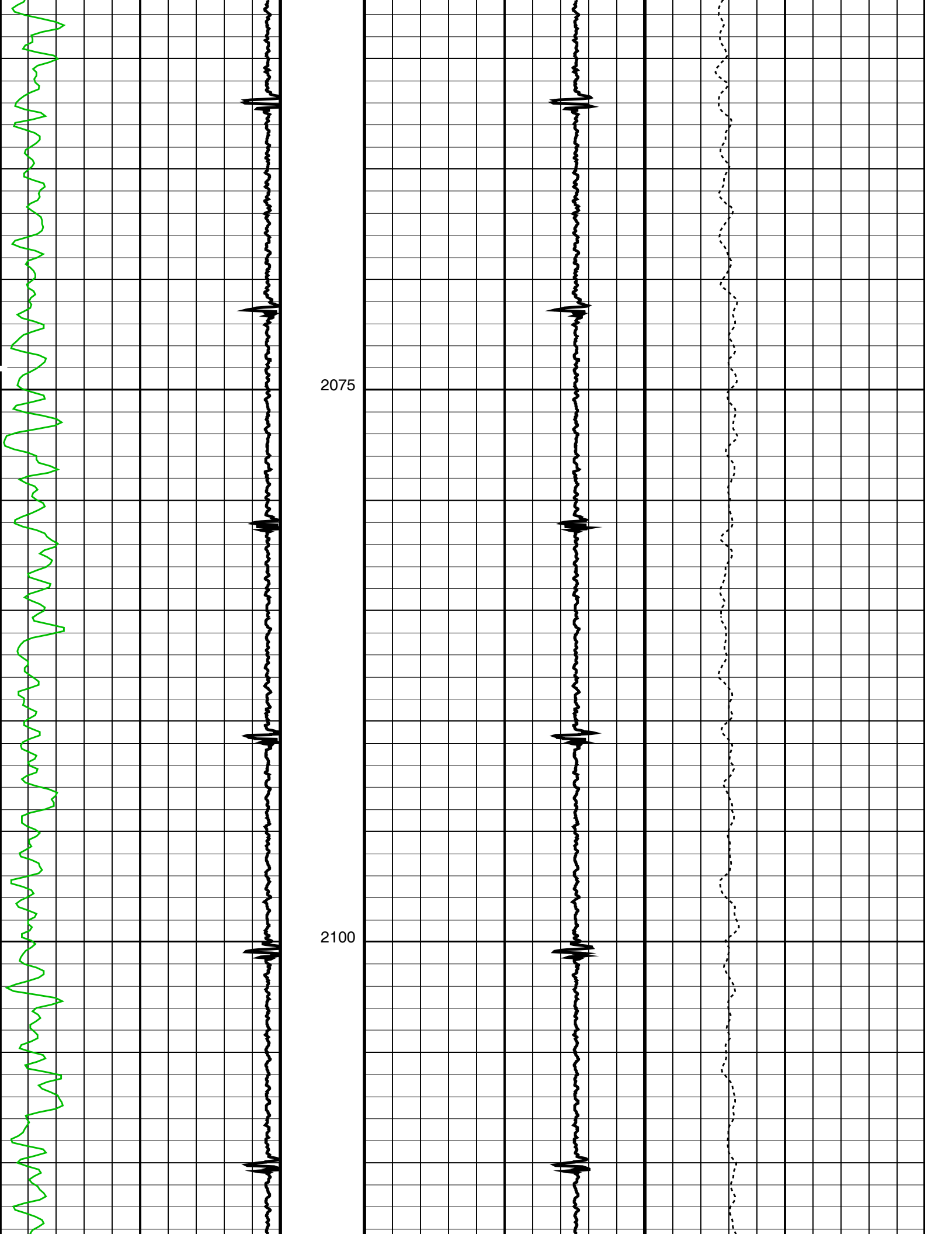
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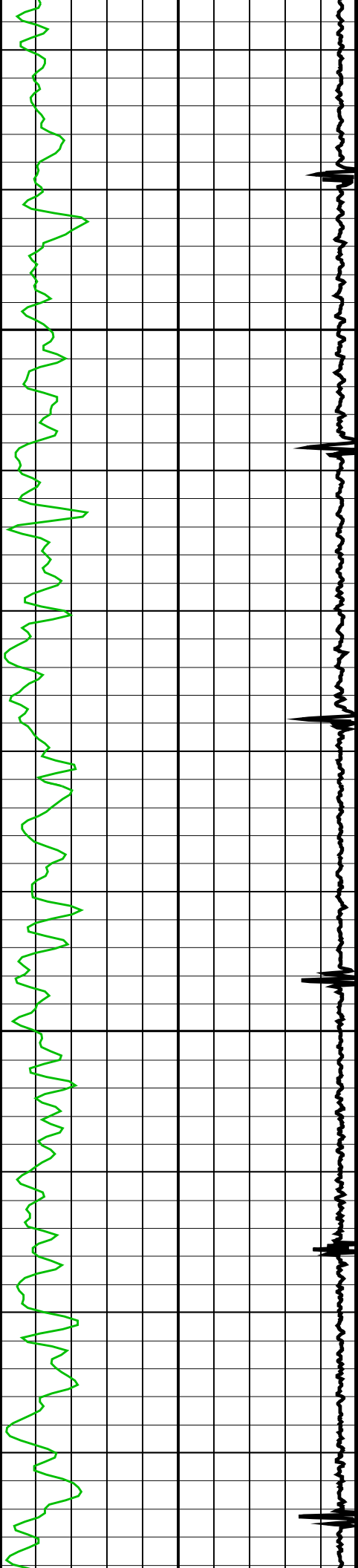
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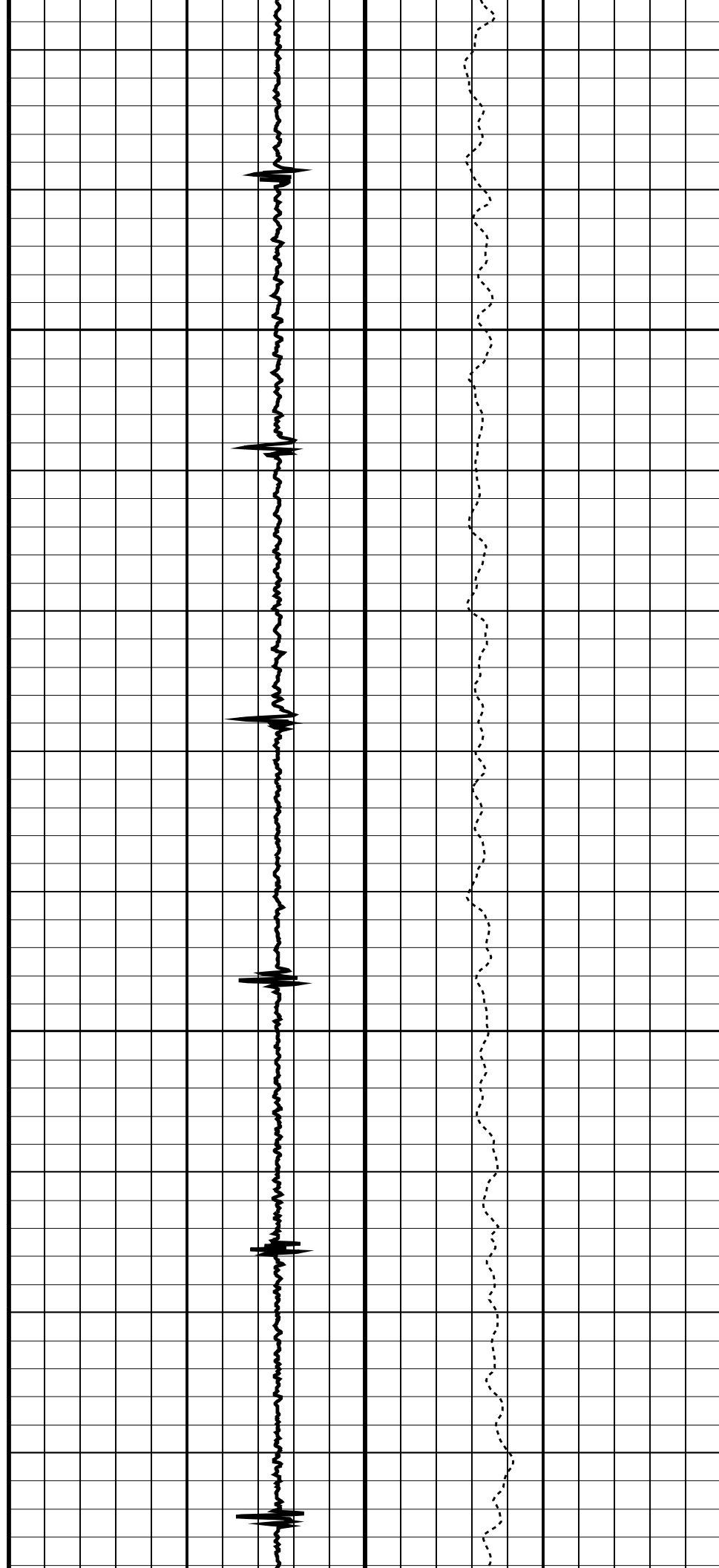


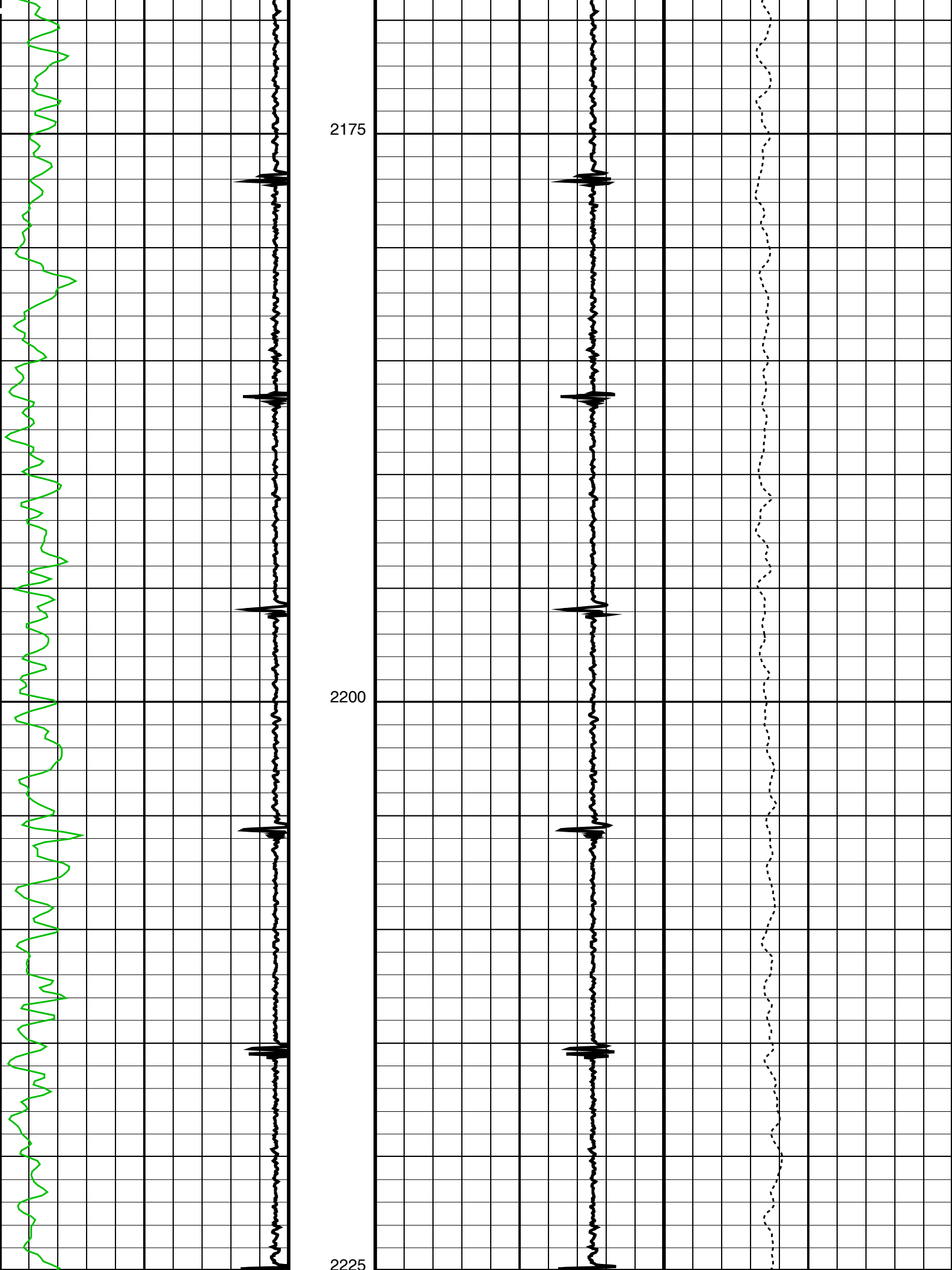


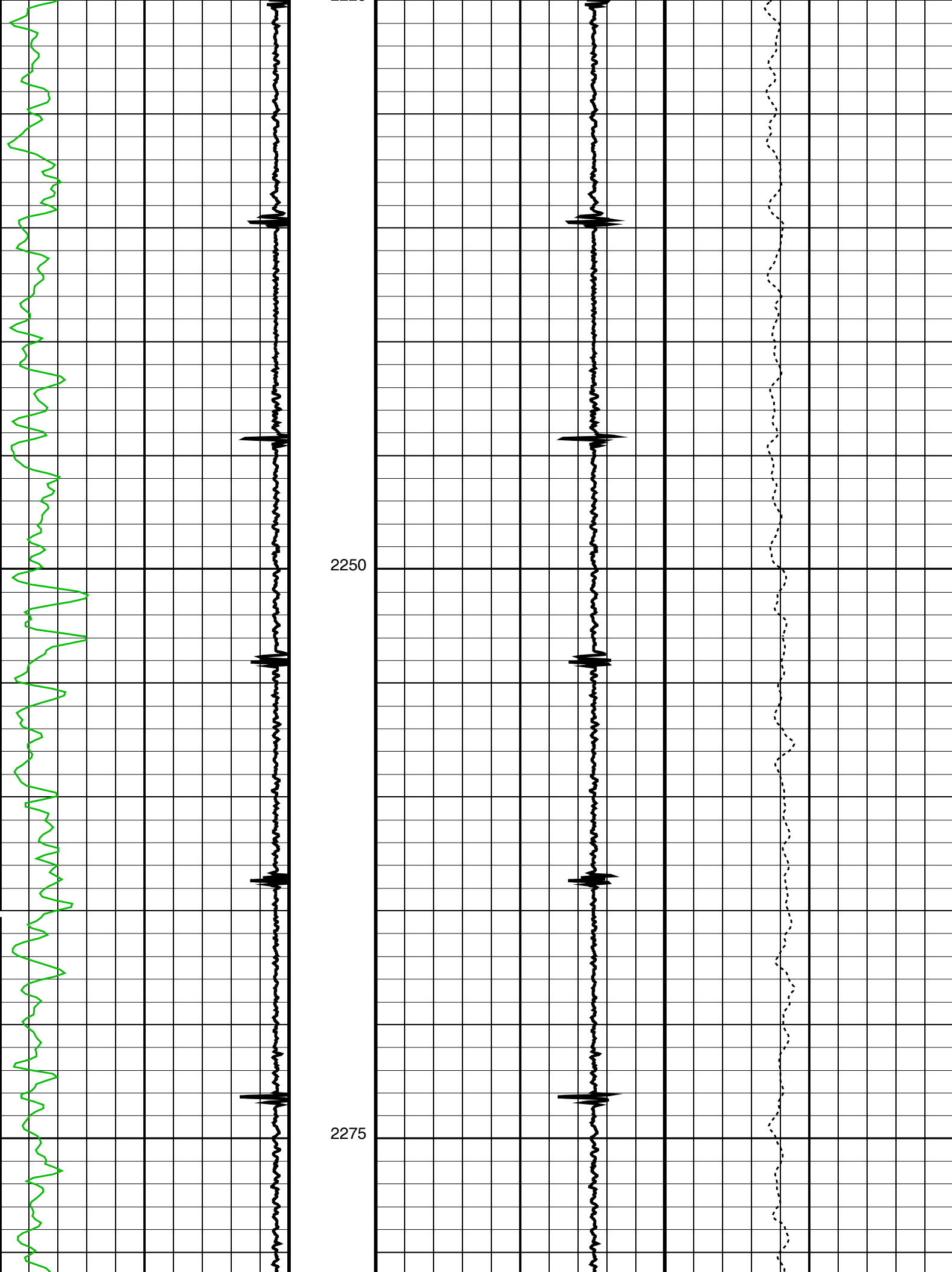


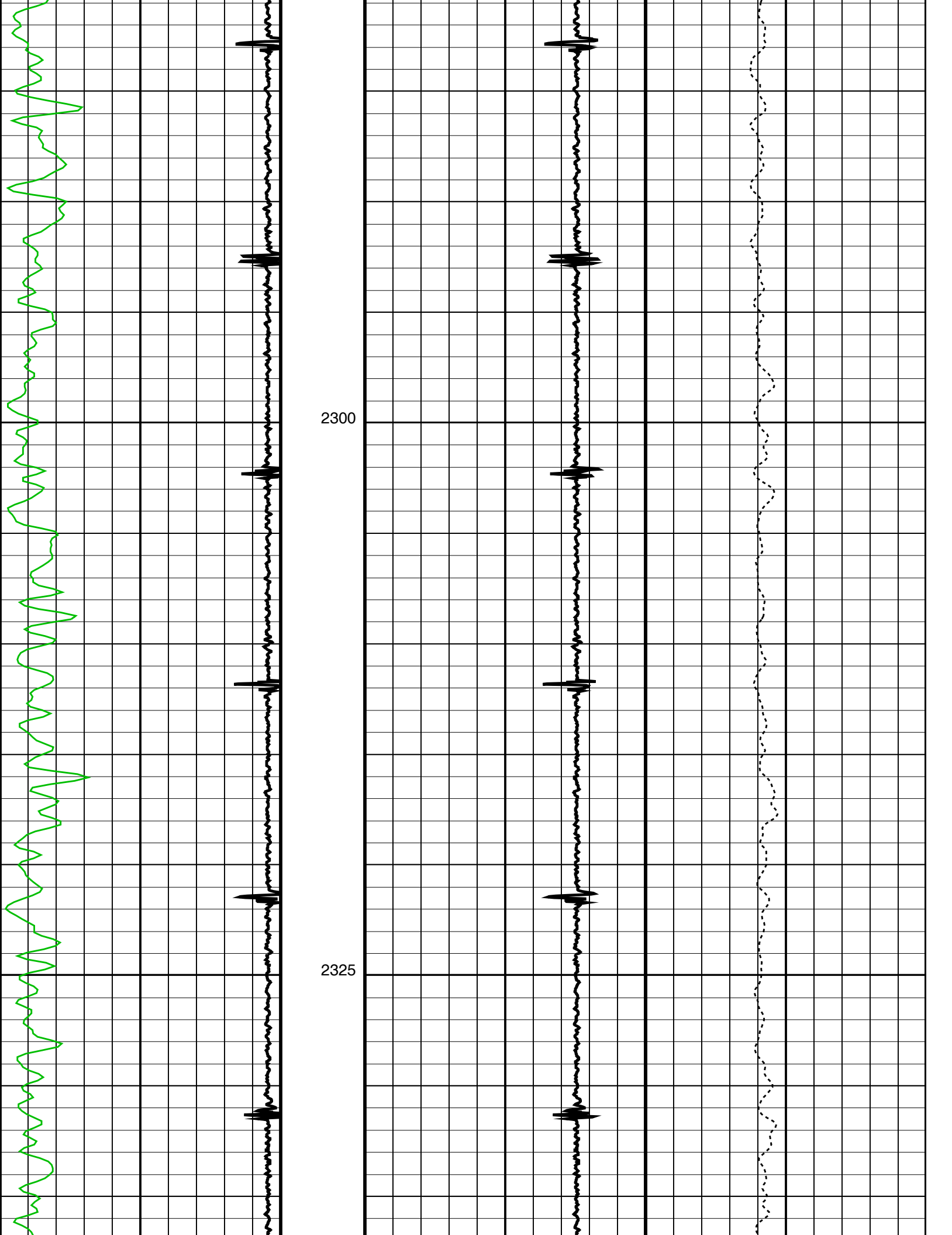
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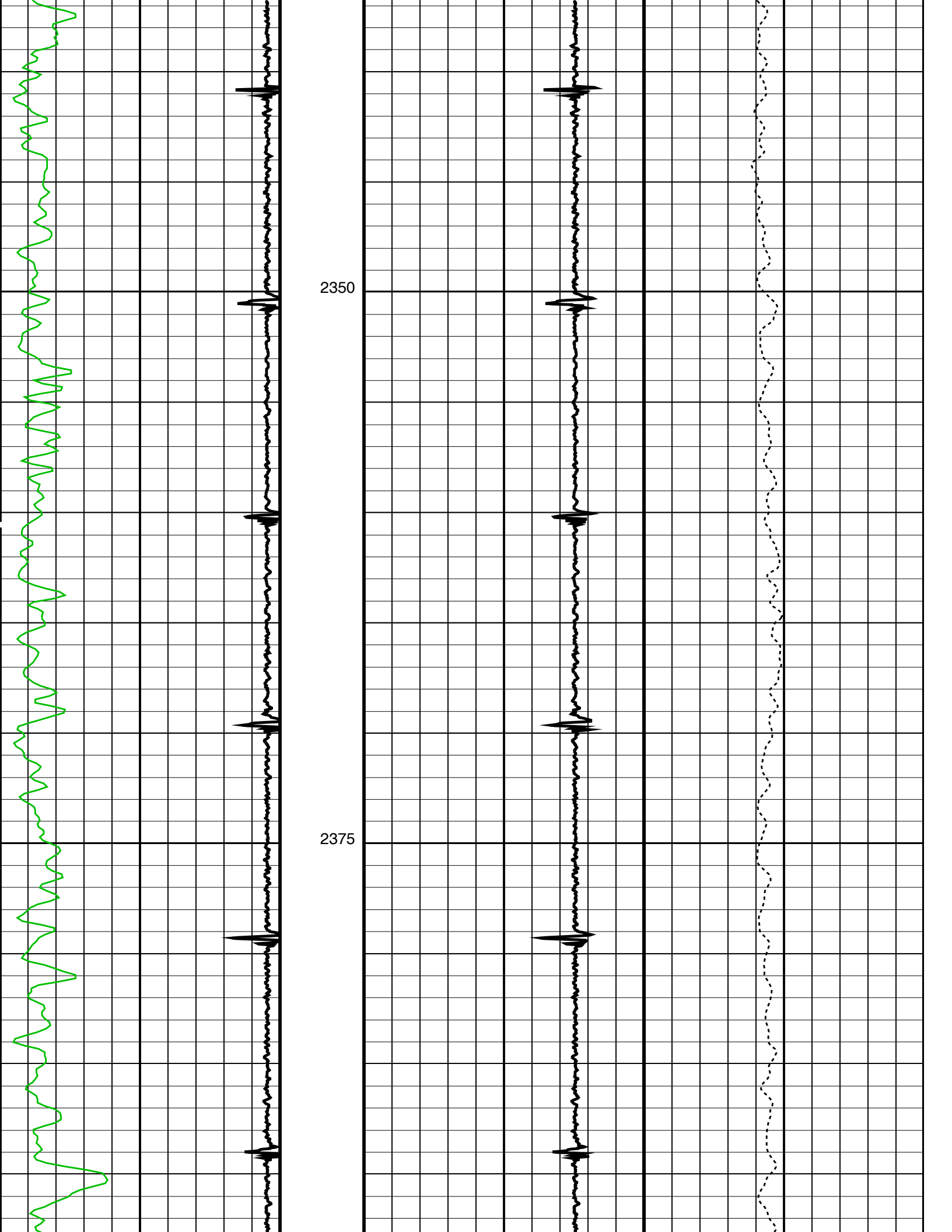
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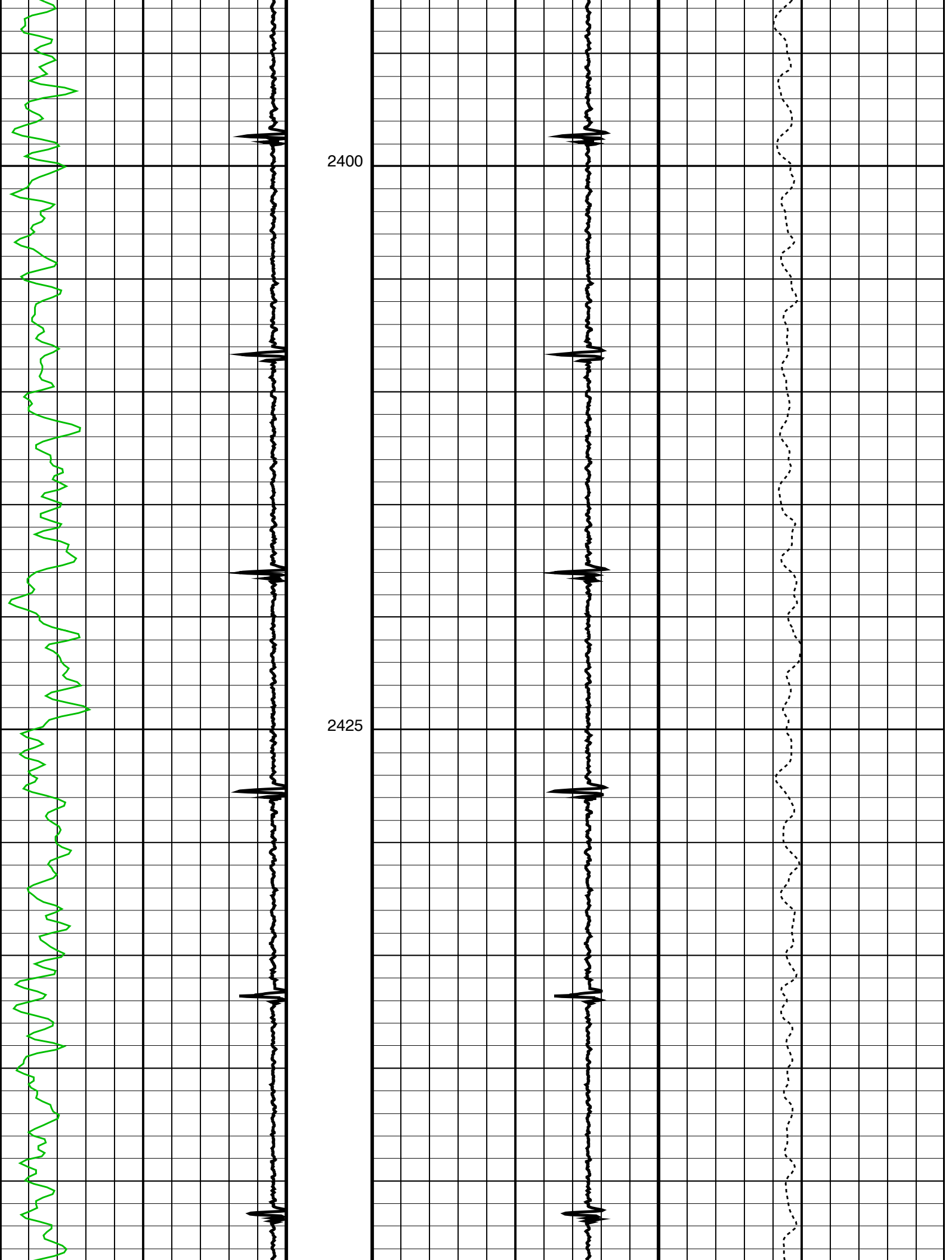


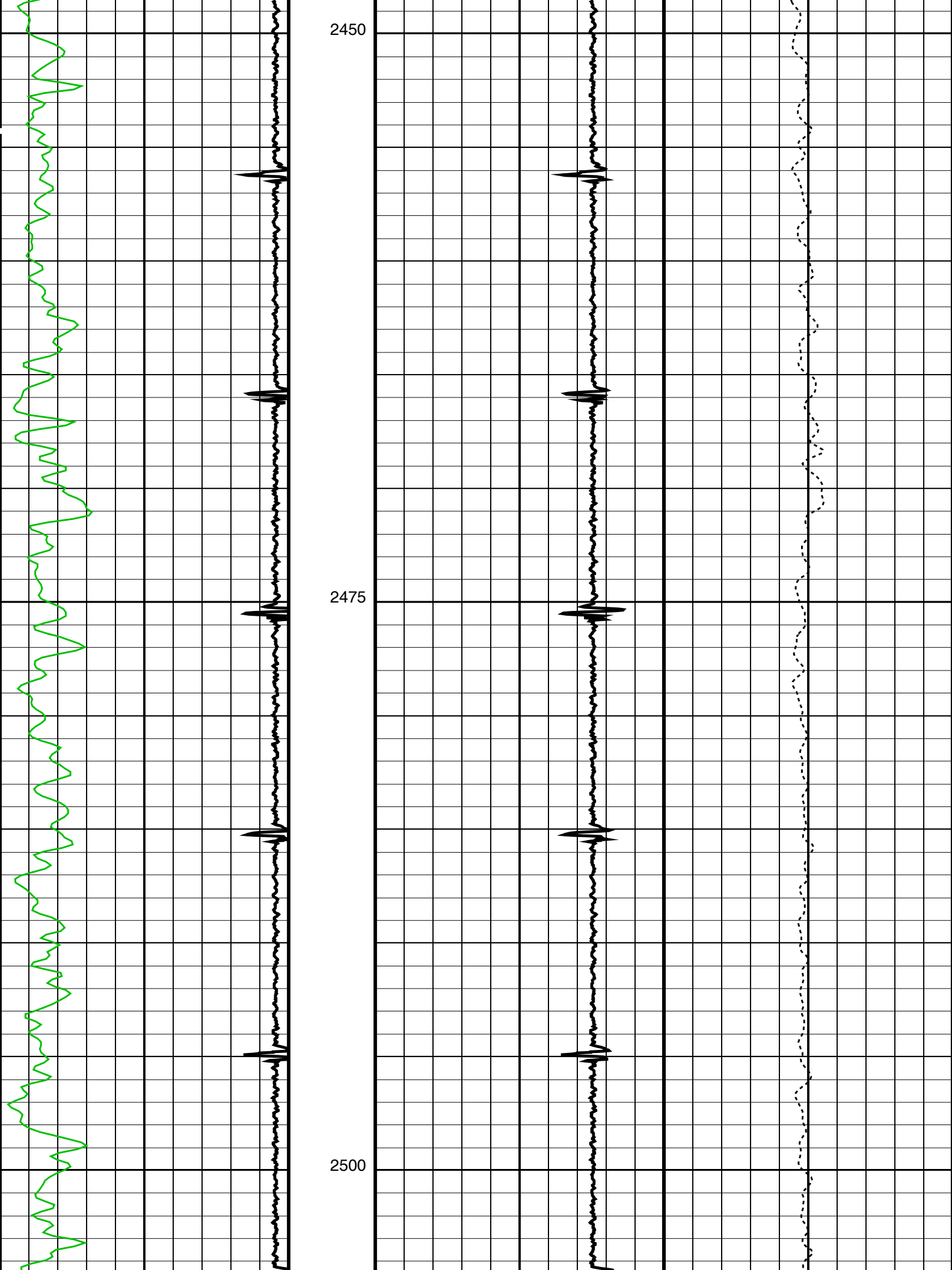


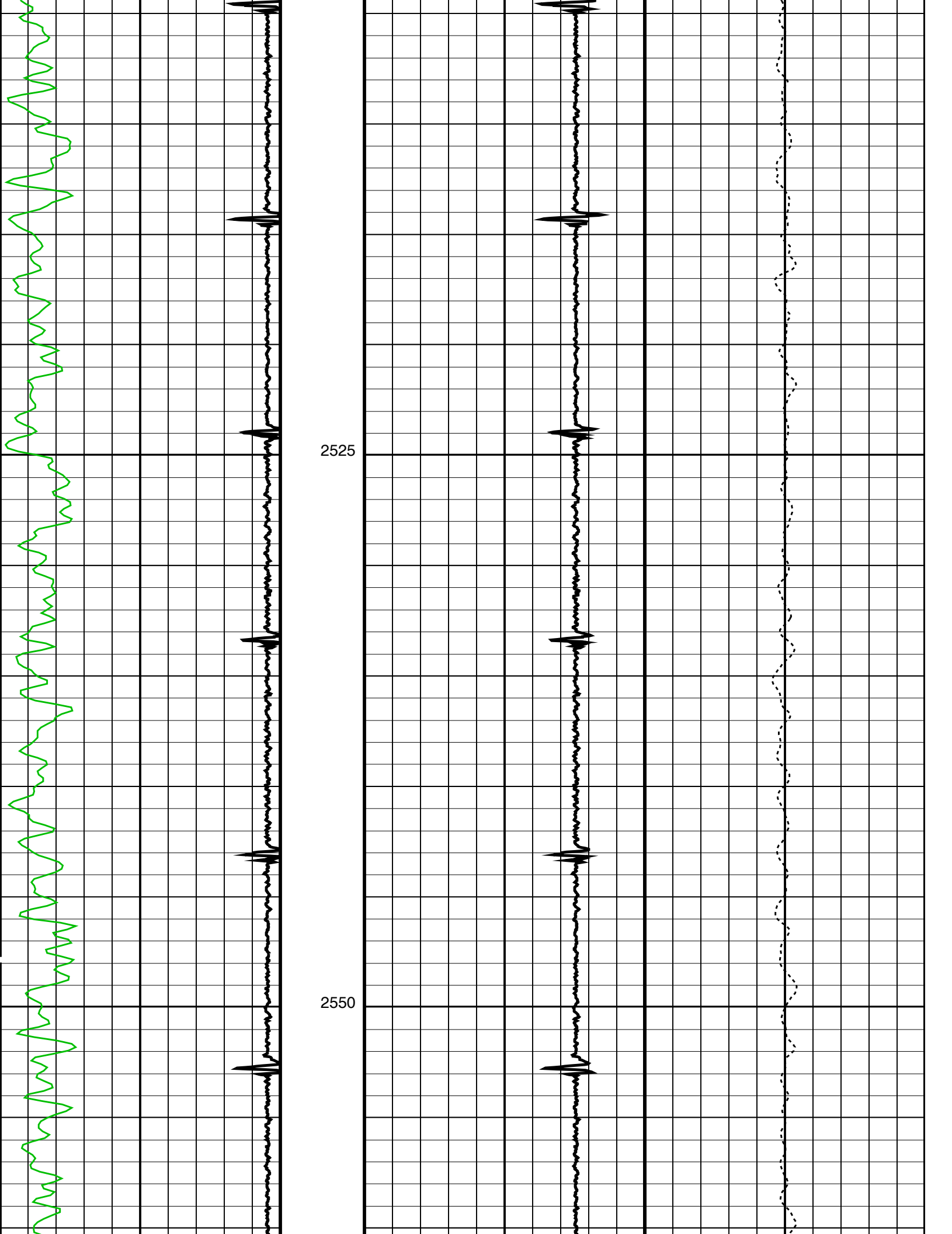


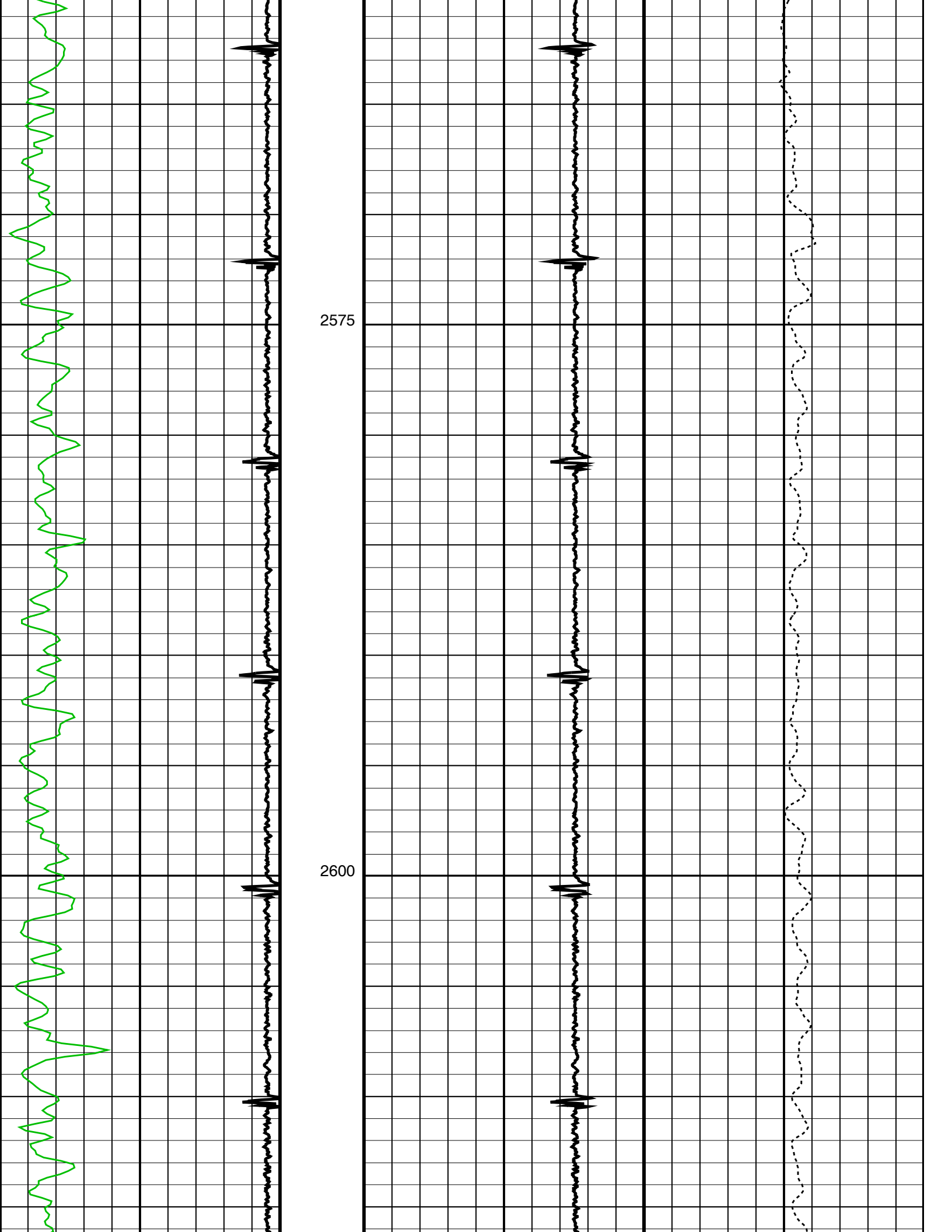


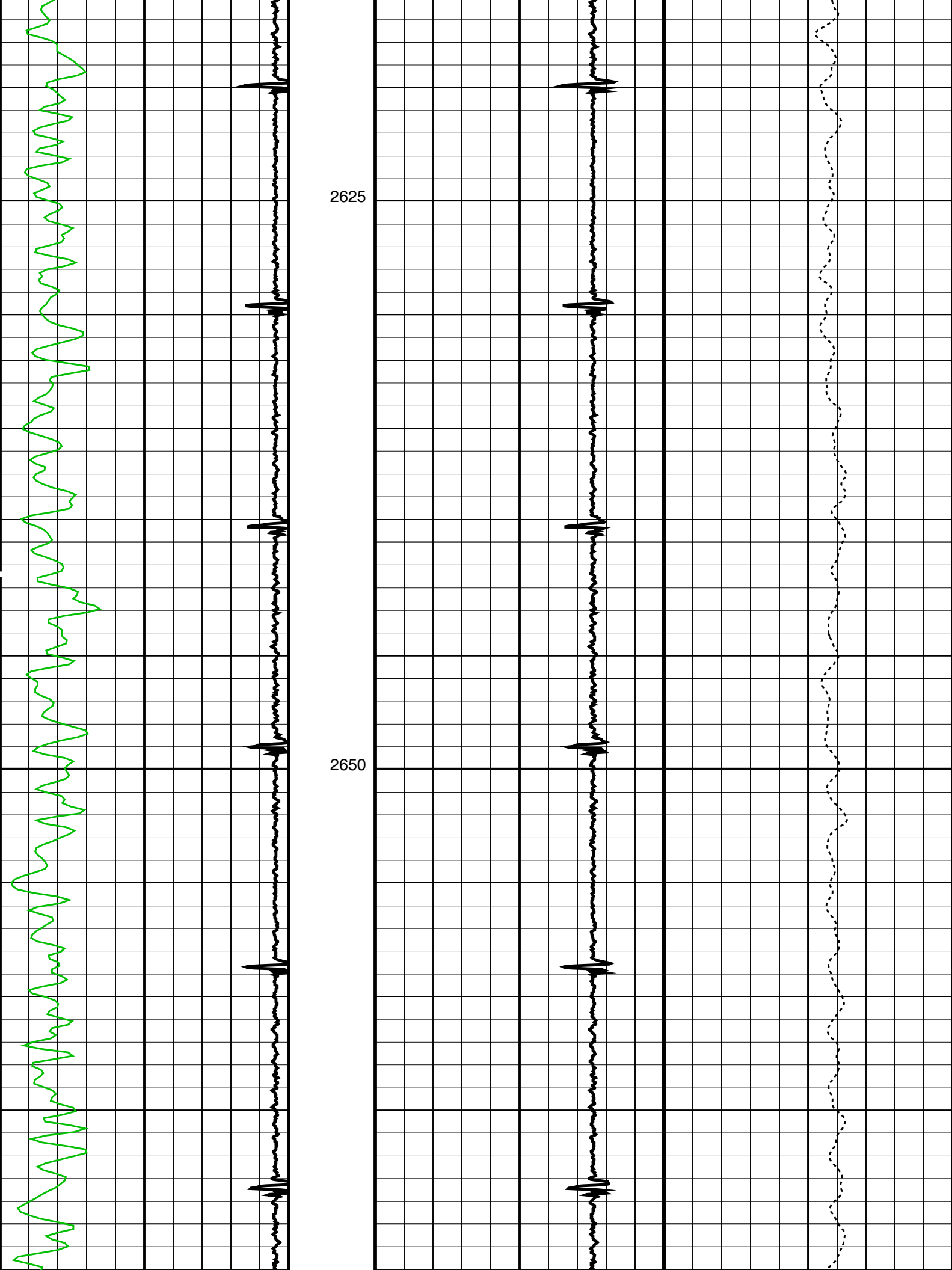


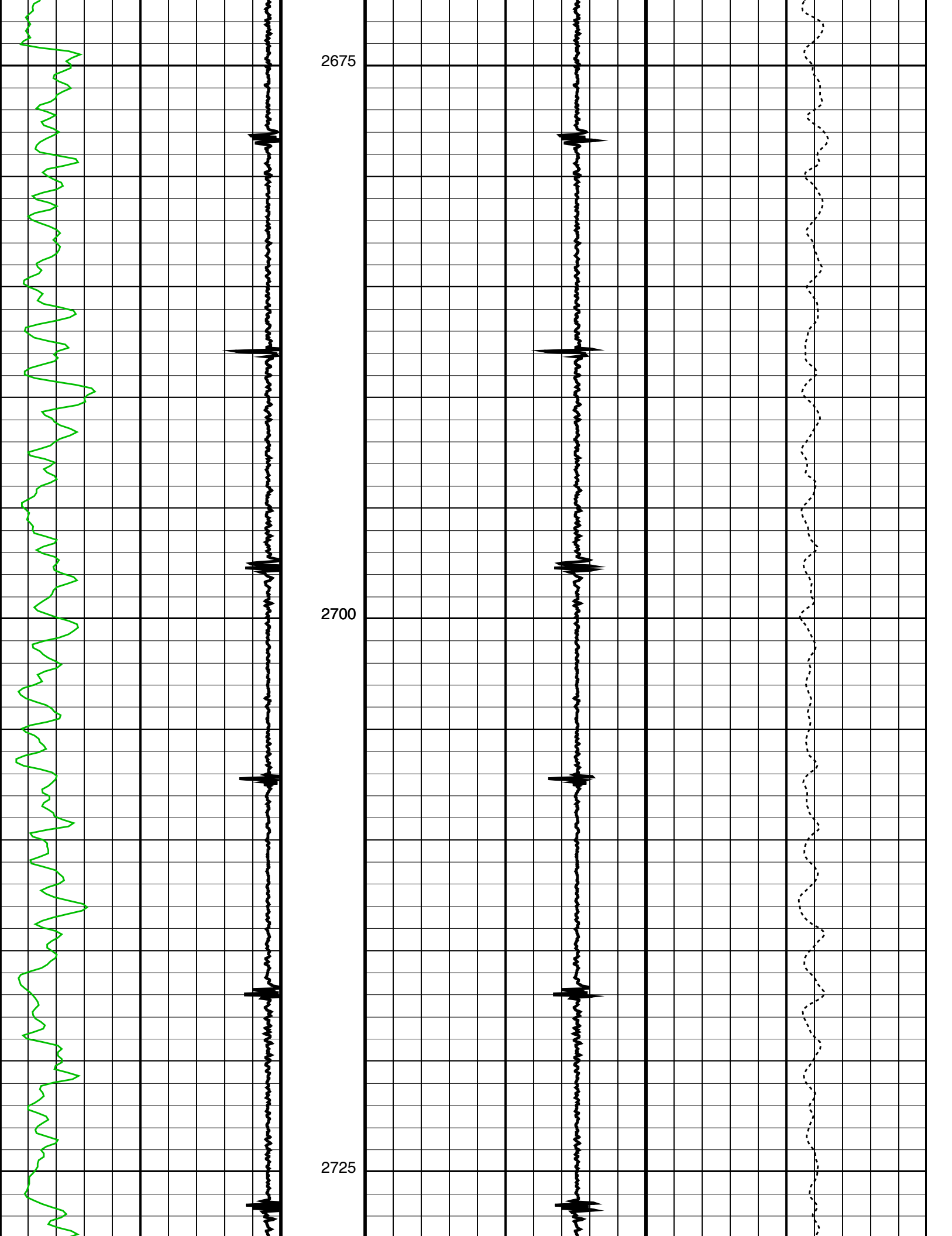


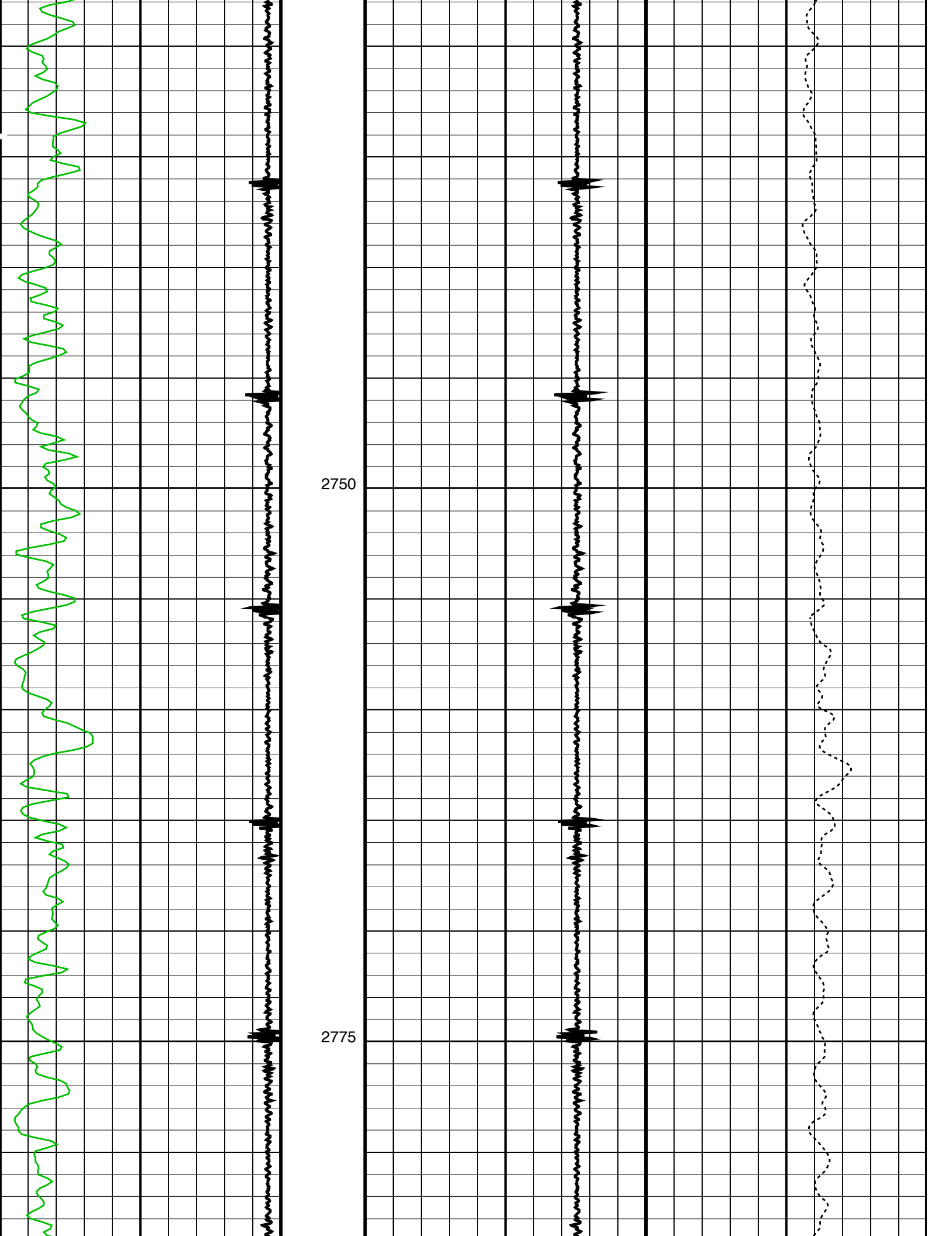


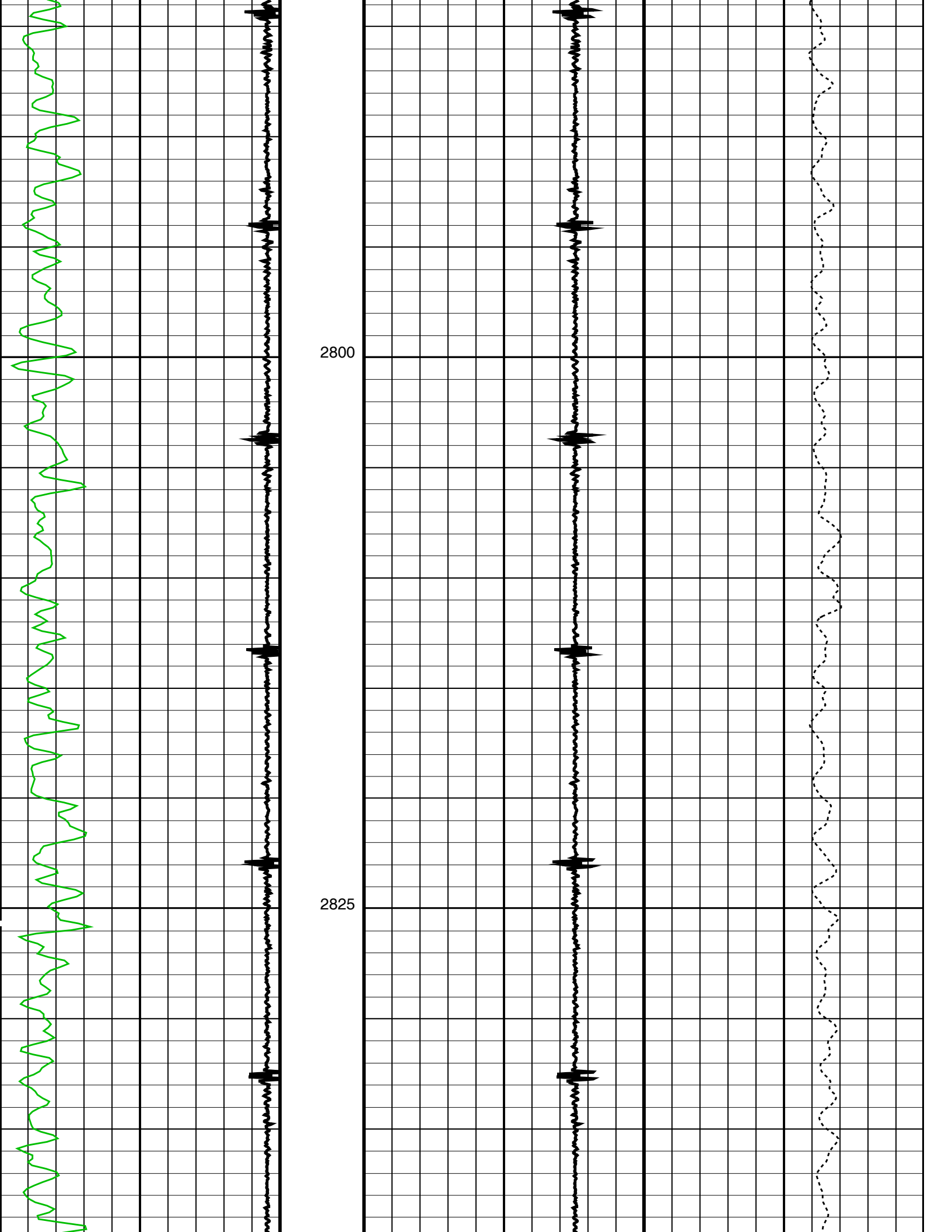


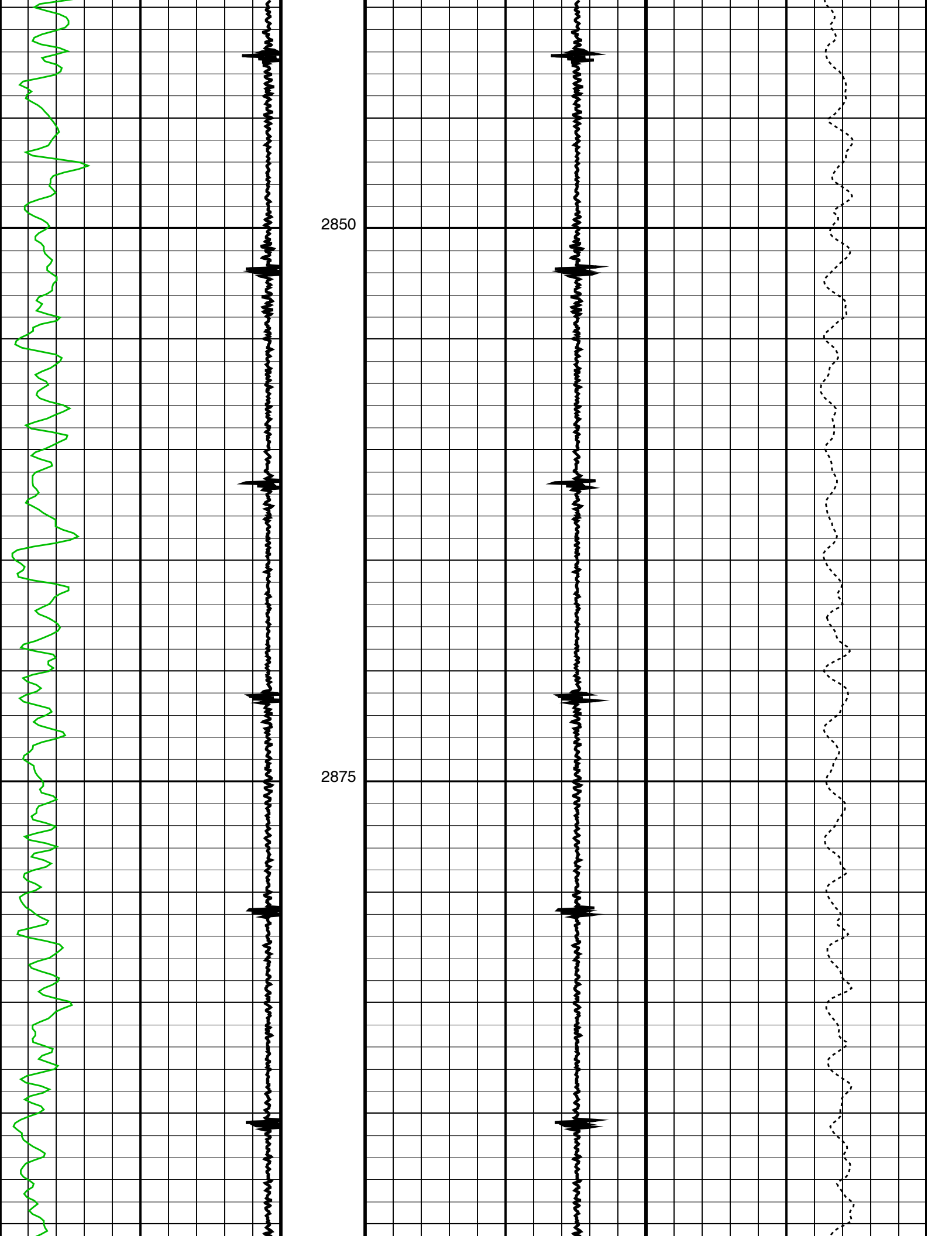


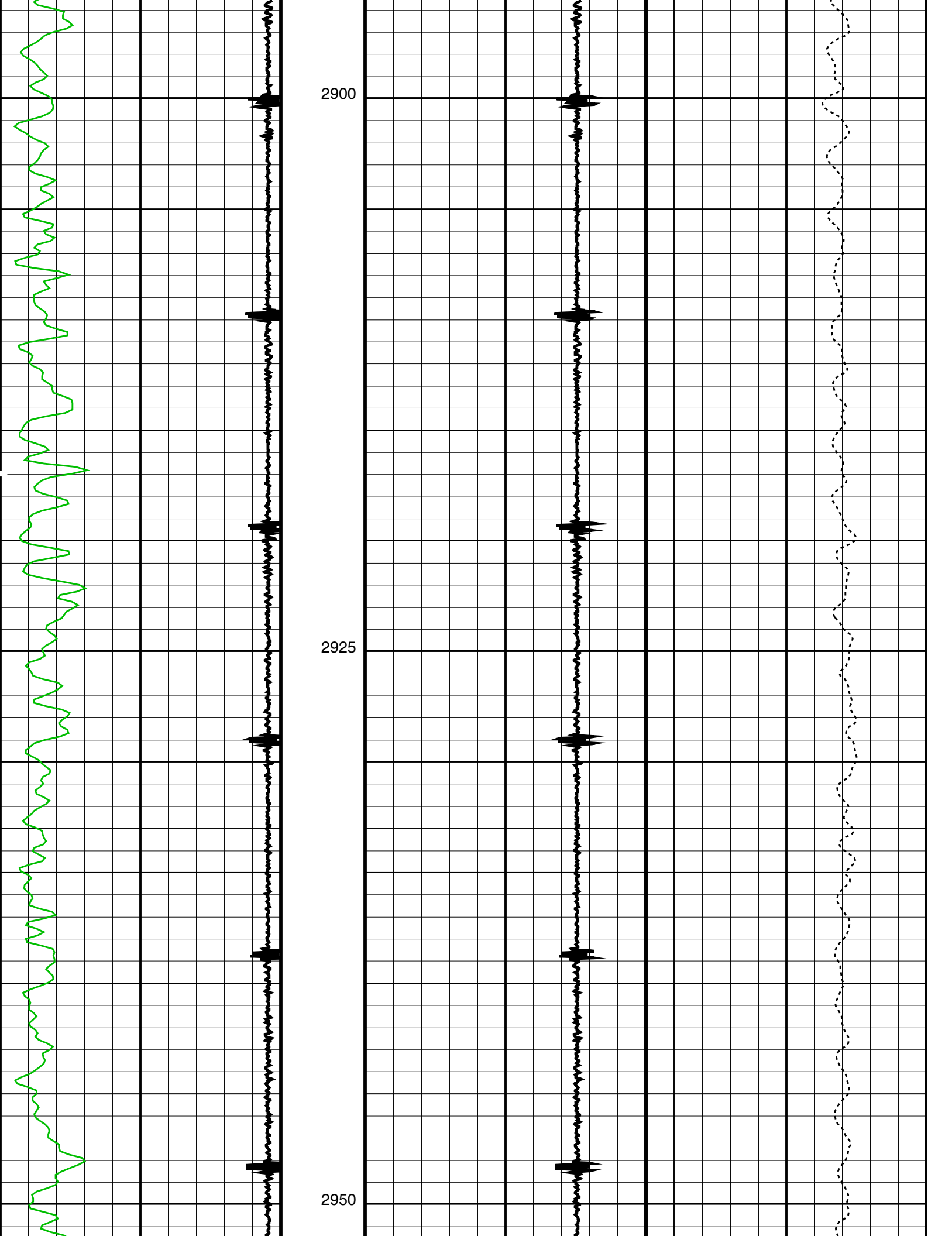


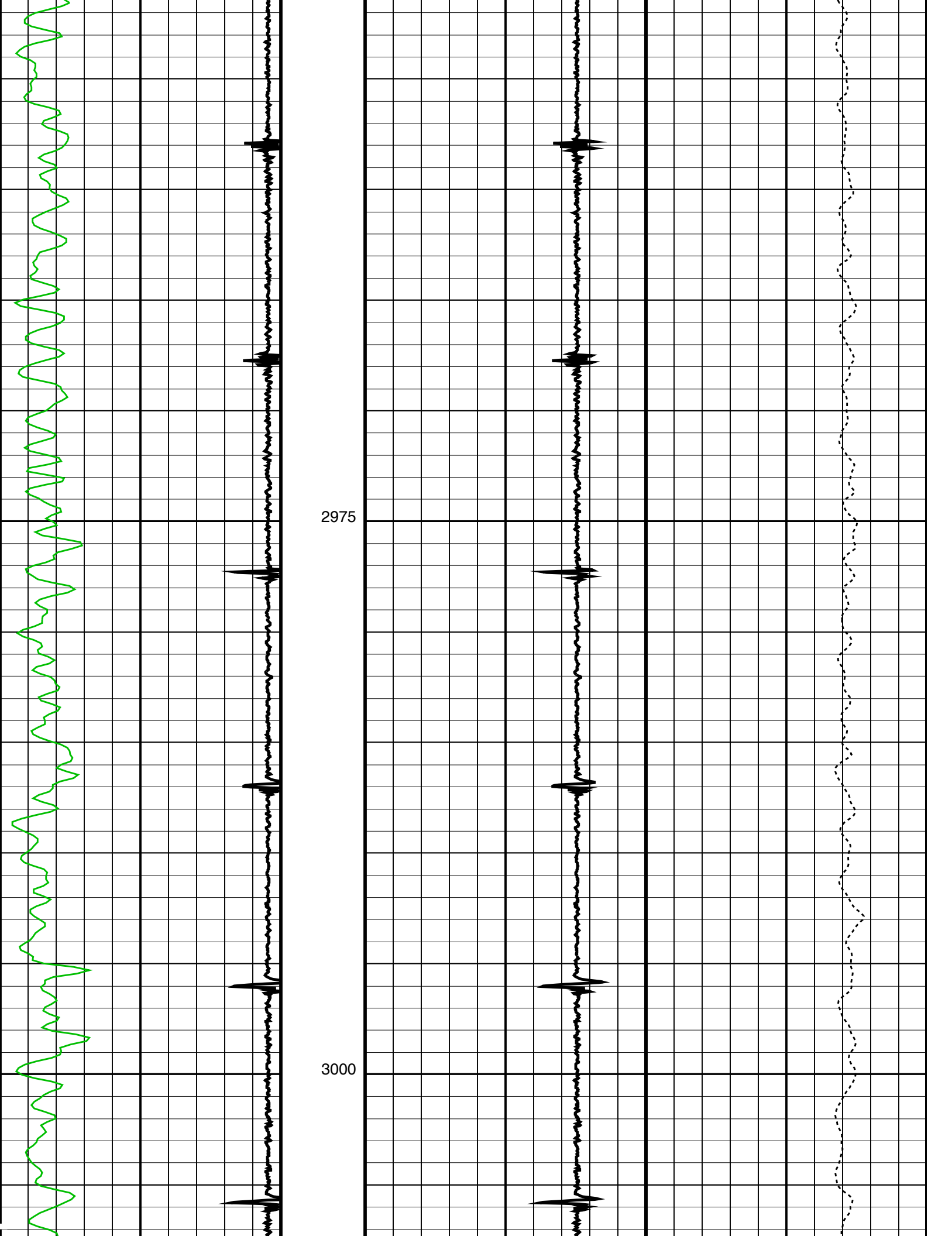


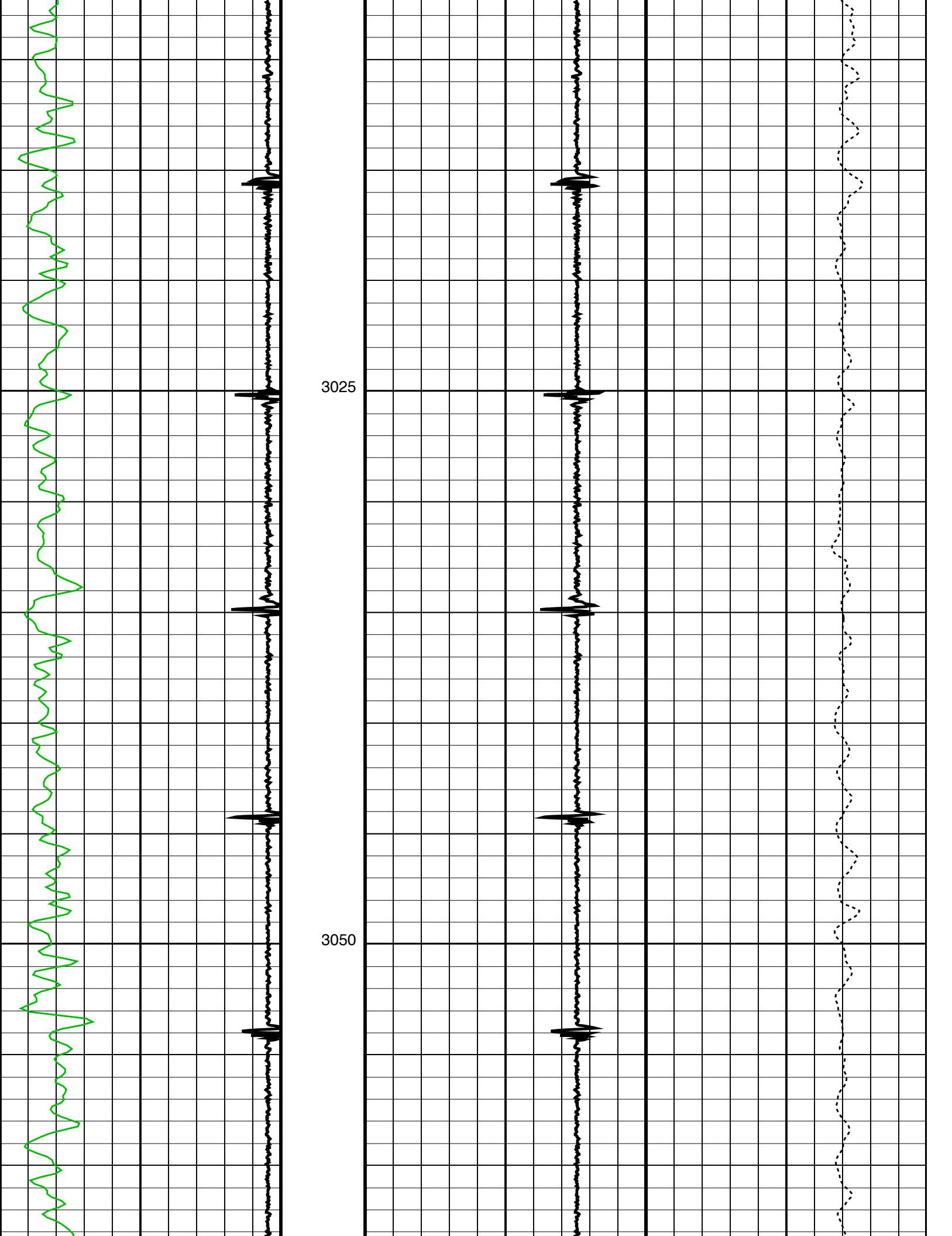


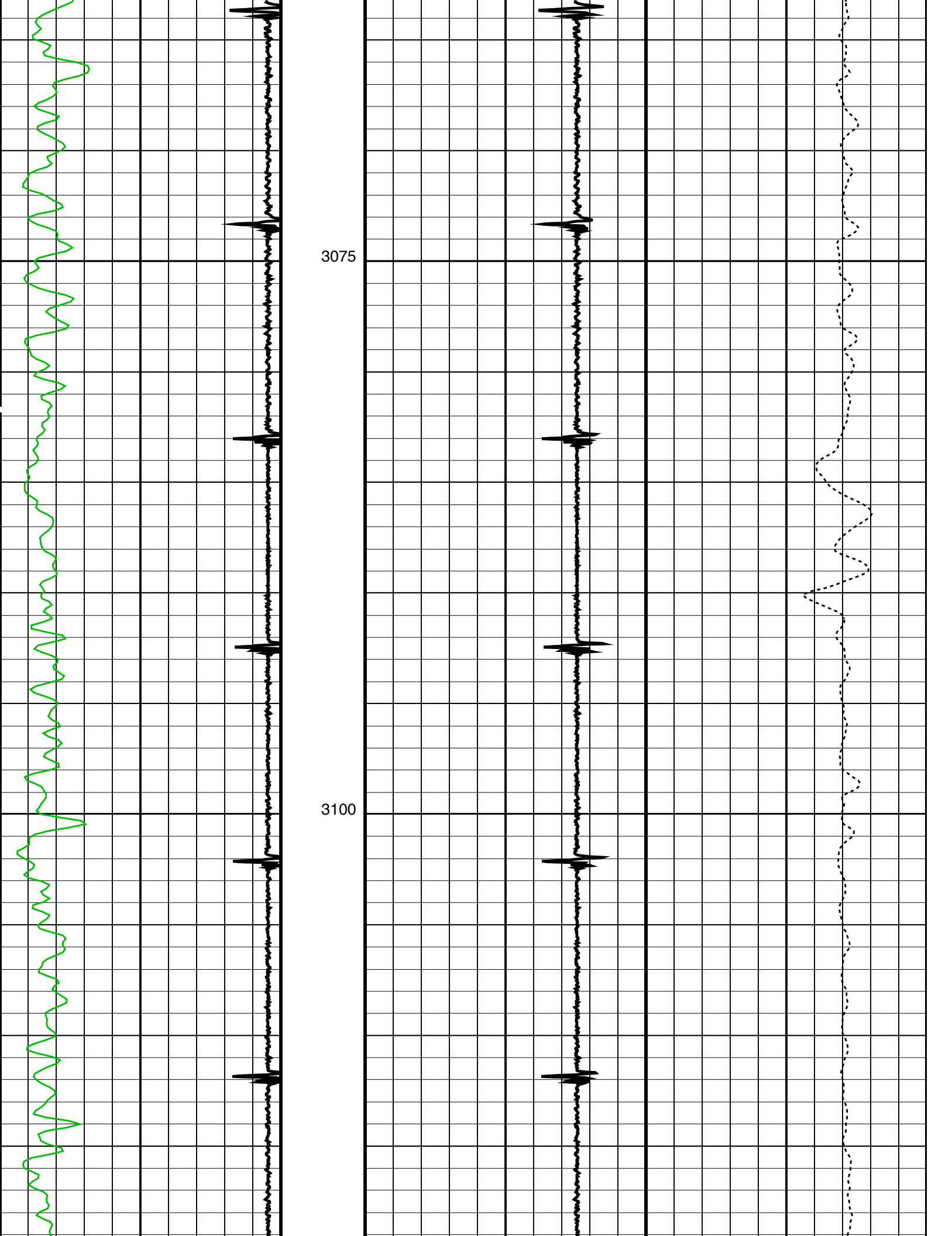


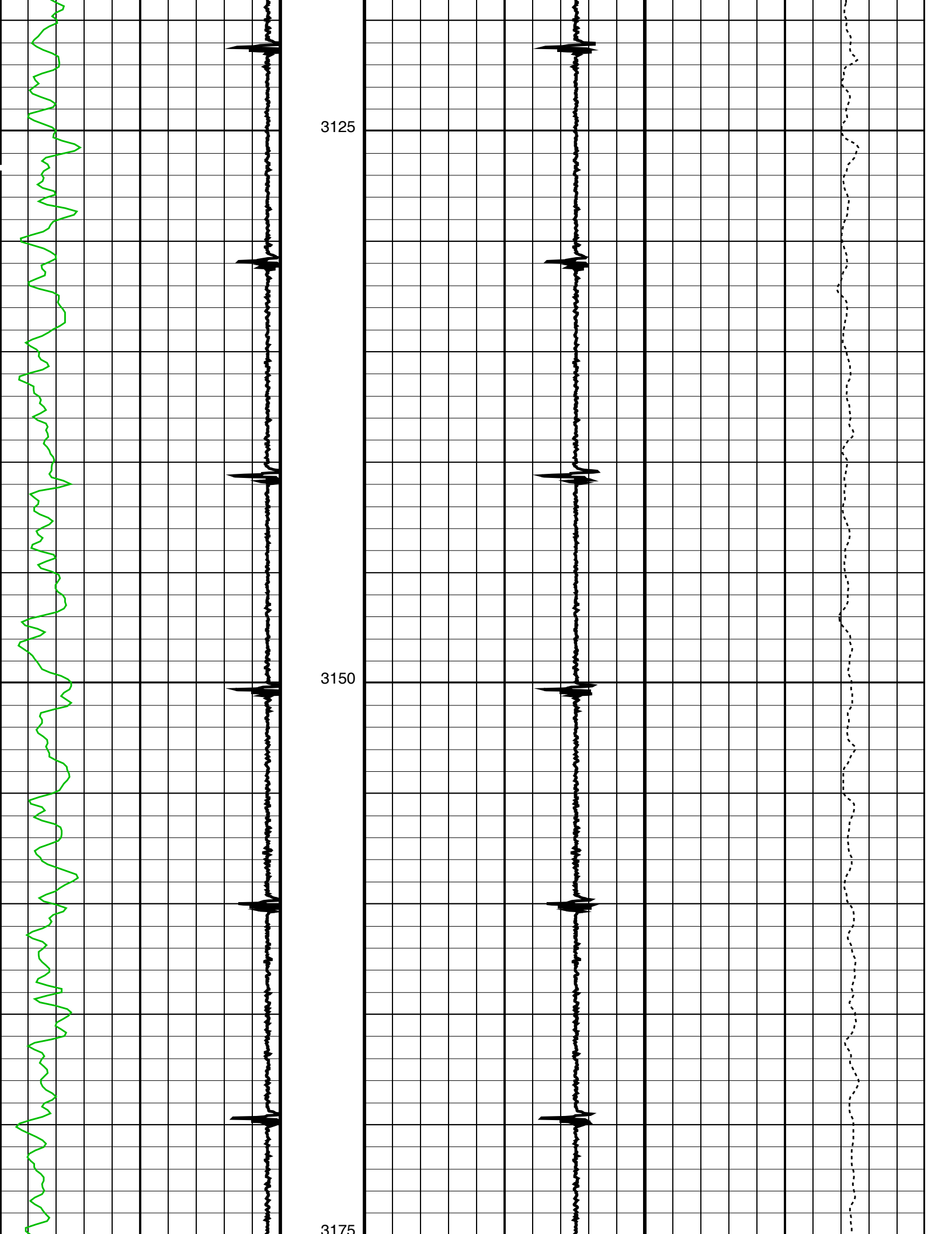


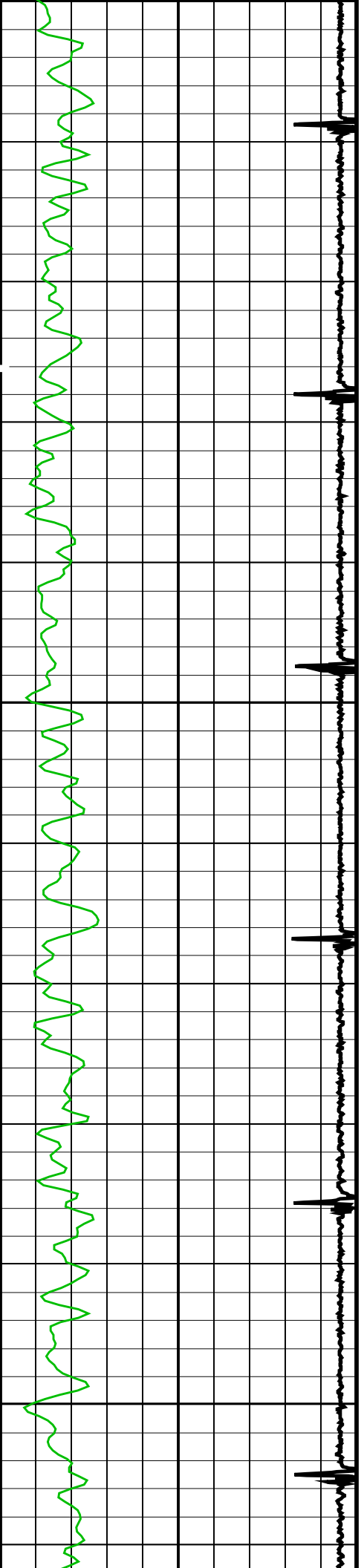






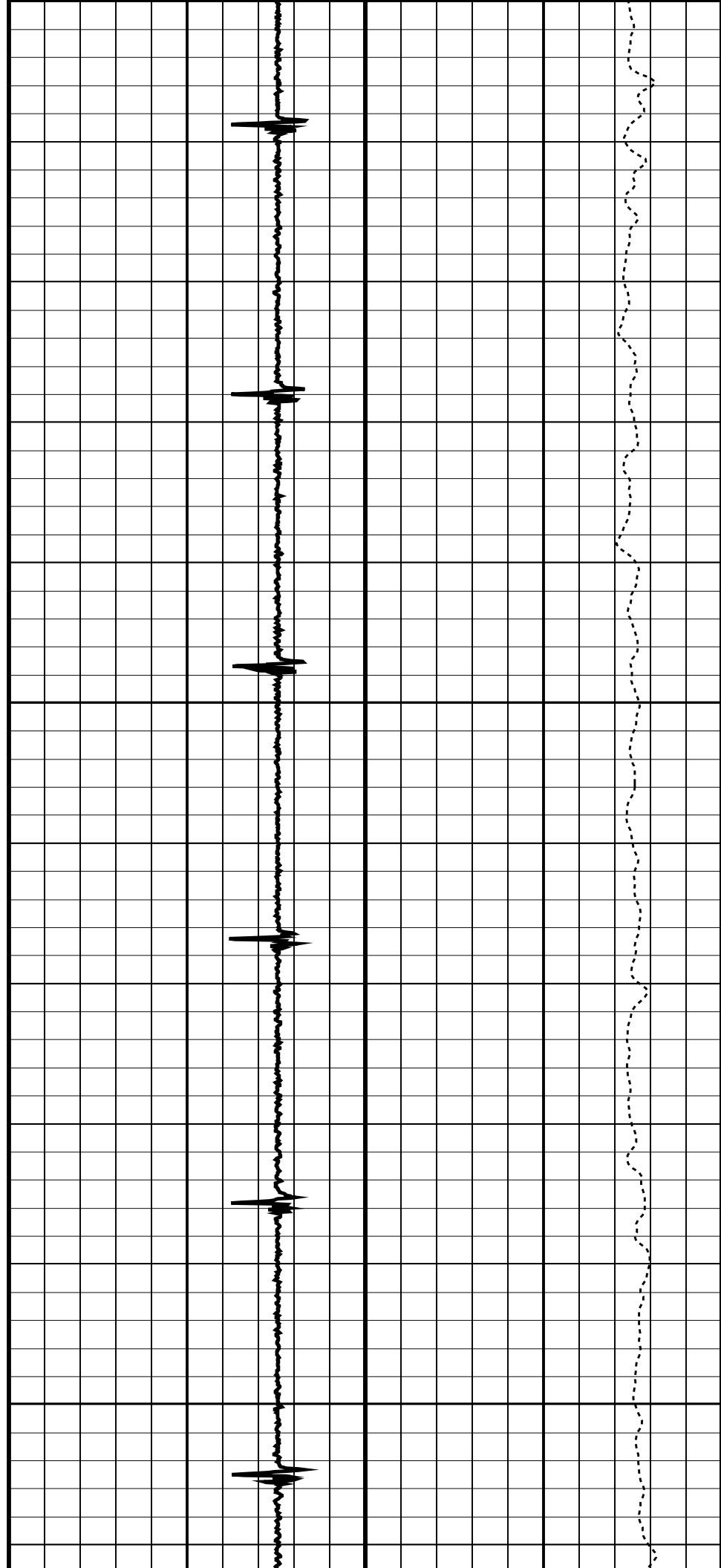


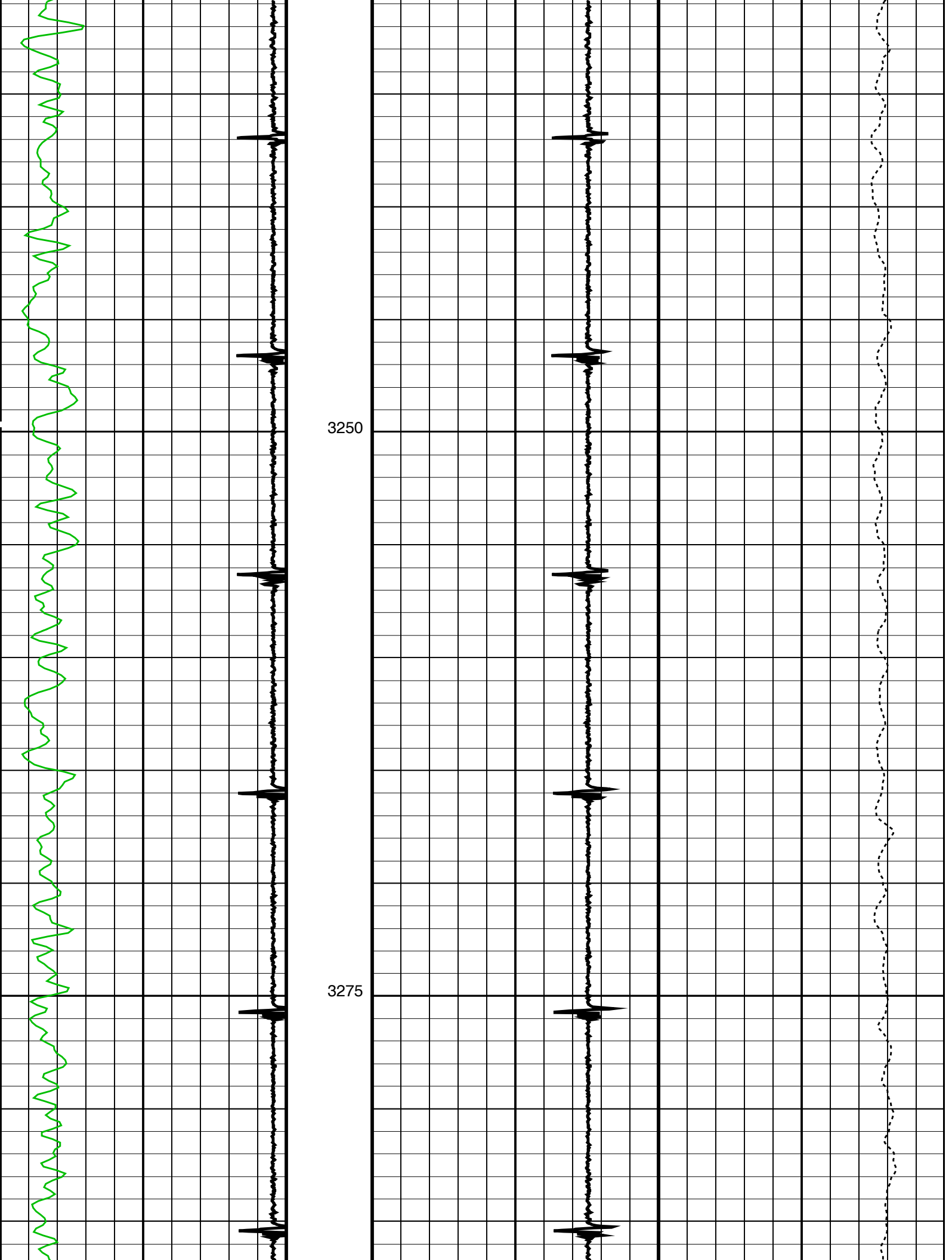


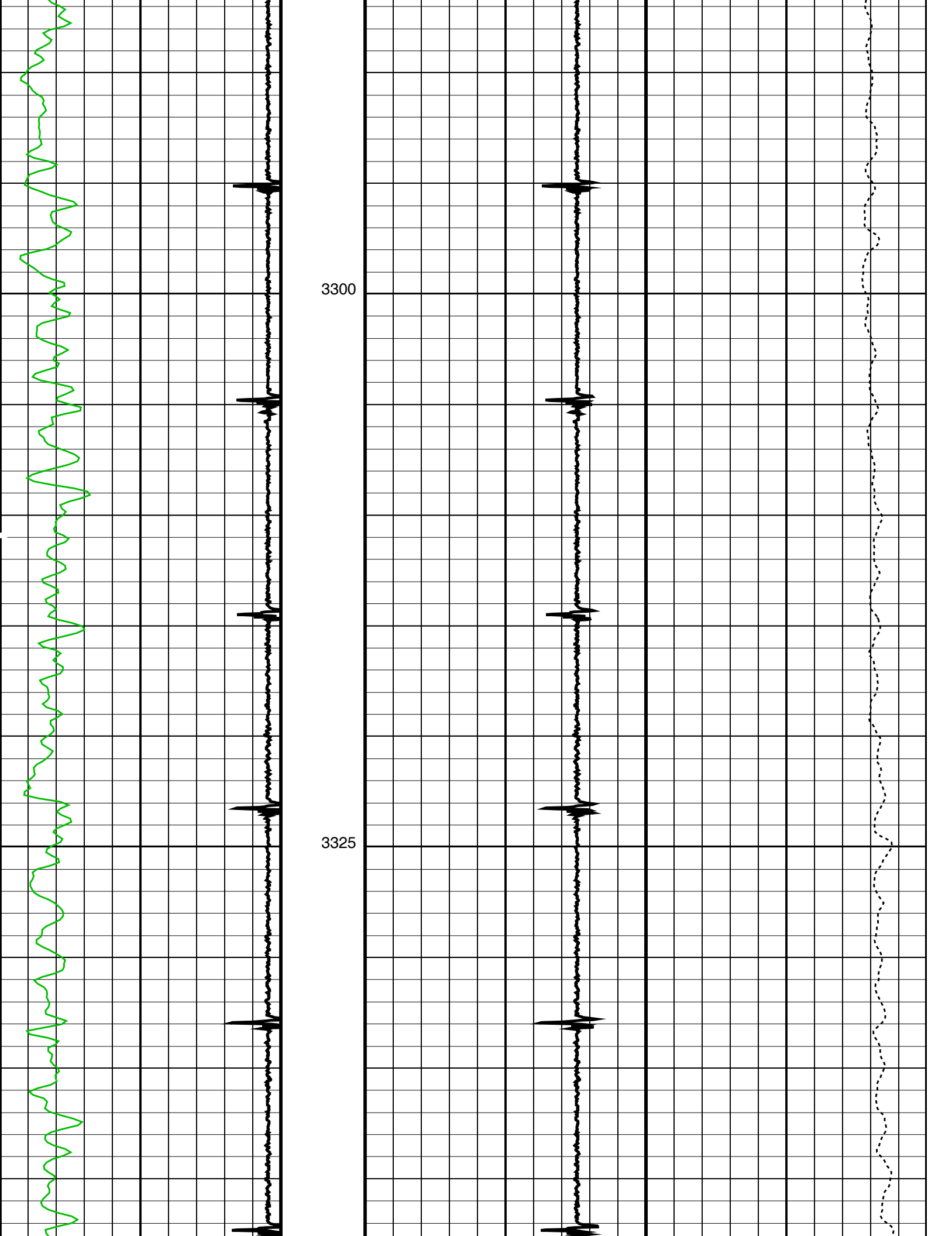


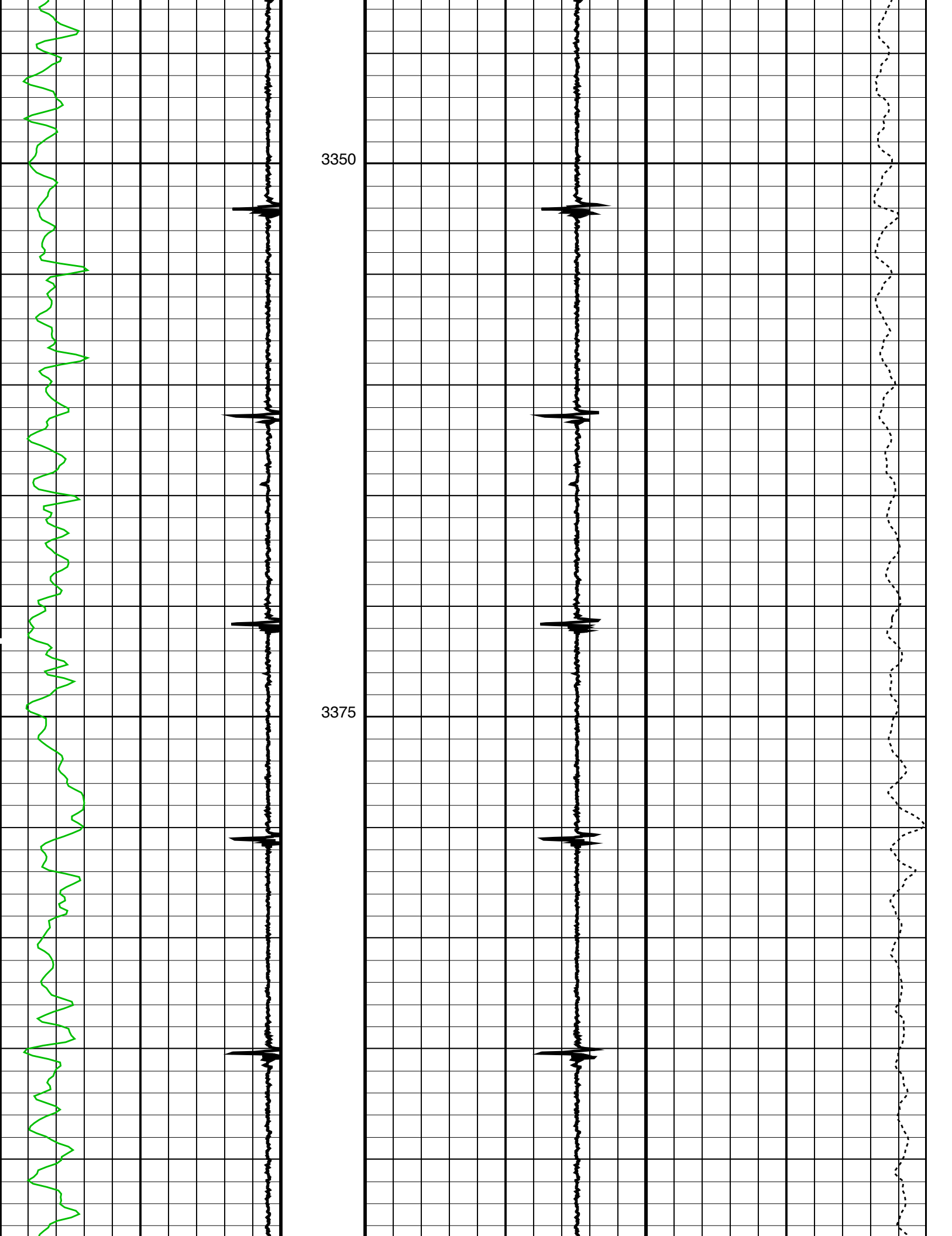
3200

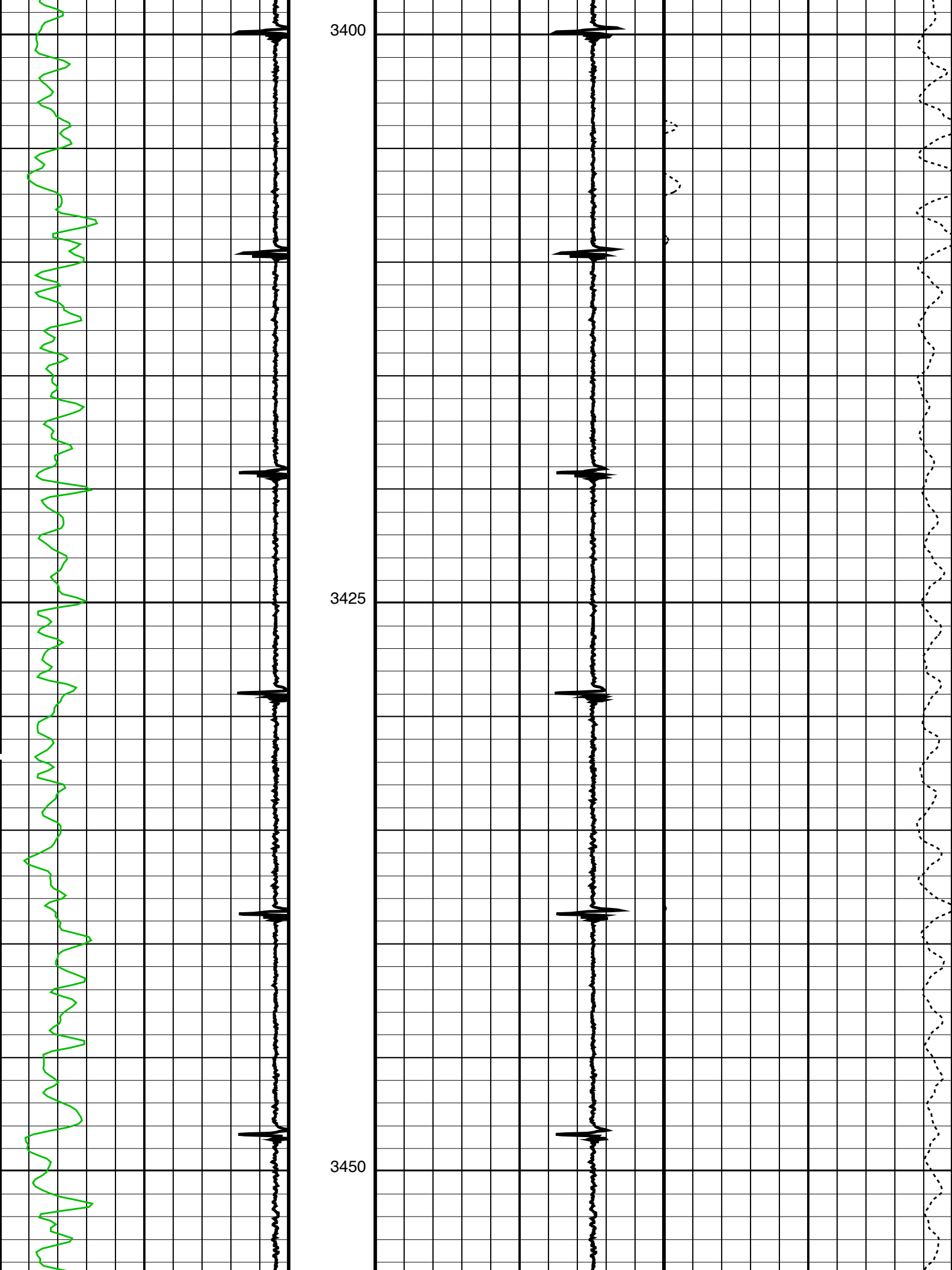
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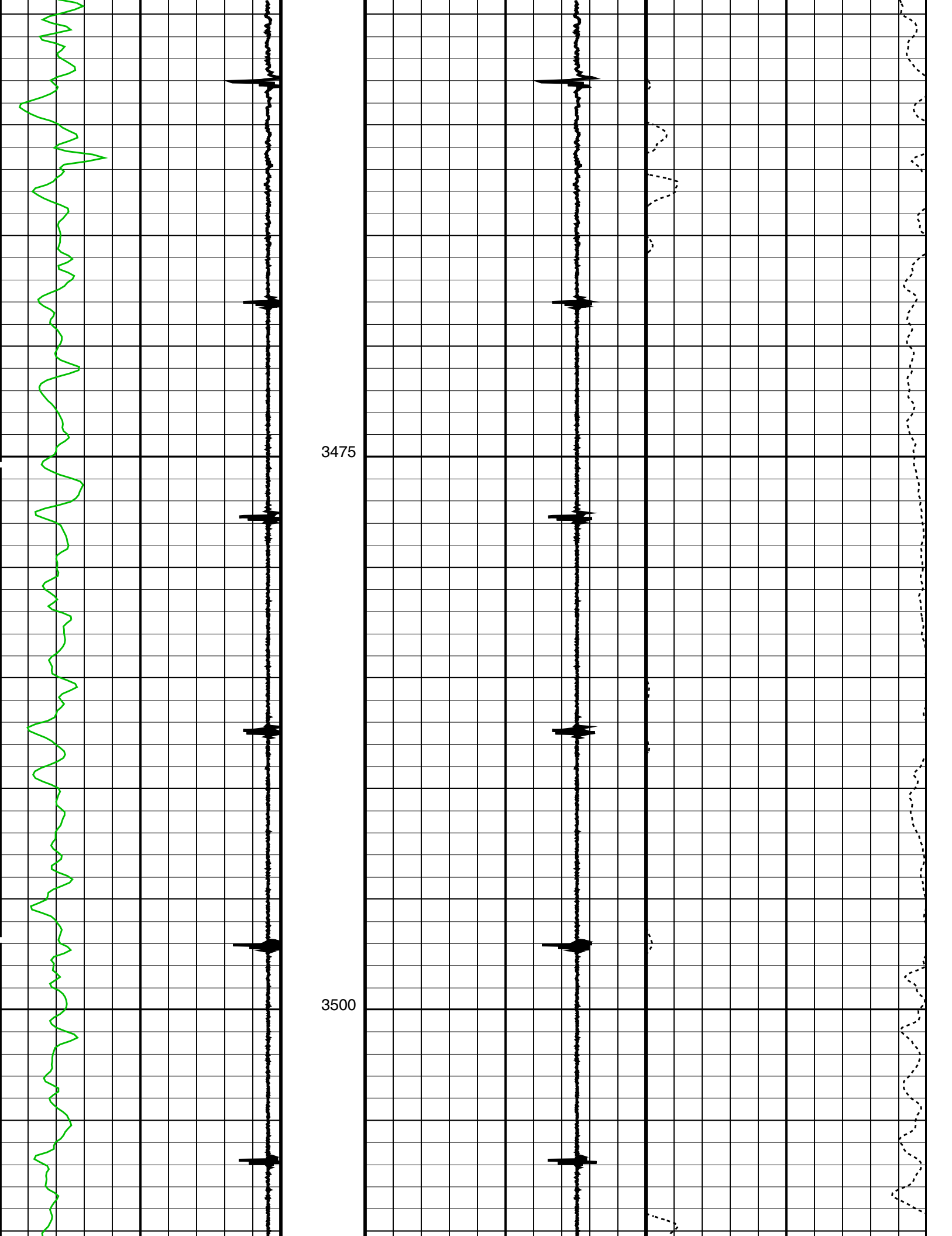


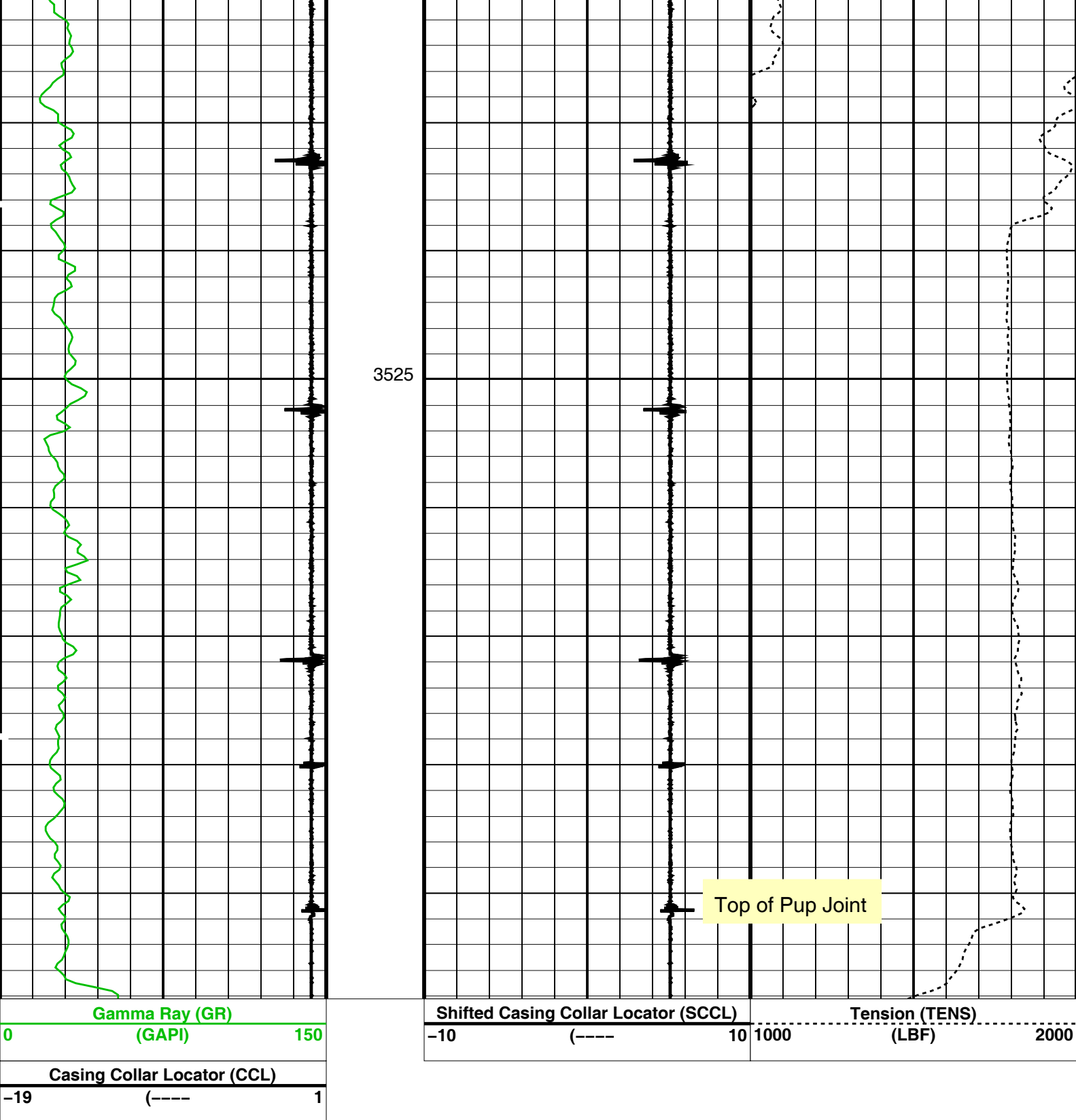












PIP SUMMARY		
Time Mark Every 60 S		
Parameters		
DLIS Name	Description	Value
DO	System and Miscellaneous	
PP	Depth Offset for Playback	2.8 M
	Playback Processing	NORMAL
Format: PERFO Vertical Scale: 1:200		Graphics File Created: 13-Dec-2009 15:35

Input DLIS Files

DEFAULT	PERFO_022LUP	FN:21	PRODUCER	13-Dec-2009 15:08	3546.3 M	1747.6 M
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Output DLIS Files

DEFAULT	PERFO_023PUP	FN:22	PRODUCER	13-Dec-2009 15:35
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Company: **Esso Australia Pty Ltd**

Schlumberger

Well: **MKA A12a**

Field: **Mackerel**

Rig: **Rig 22/Prod 2**

Country: **Australia**

2.5" Powercutter
Tubing Cut Record
13-Dec-2009