

Run 4

Date Created: 2-DEC-2004 11:59:18

Logging Cable

Type:	7-46ZV-XS
Serial Number:	74172
Length:	7324.04 M
Conveyance Method:	Wireline
Rig Type:	Offshore Fixed

Log Sequence:	Subsequent Log In the Well
Reference Log Name:	SP-HRLA-PEX-CMR-GR Nuclear Resistivity Pri
Reference Log Run Number:	Suite-1, Run1
Reference Log Date:	24-Nov-2004

1. Subsequent run in hole. Log correlated to Schlumberger SP-HRLA-PEX-CMR-GR log, dated 24-Nov-0
2. Primary depth reference IDW-E
- 3.
- 4.
- 5.
- 6.

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 OF 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.

OTHER SERVICES2
OS1:
OS2:
OS3:
OS4:
OS5:

REMARKS: RUN NUMBER 2

HNGS Background Count Rates for the Calibrations are below lower limits due to the low radioactivity offshore.

RUN 1 SERVICE ORDER #: PROGRAM VERSION: 12C0-301 FLUID LEVEL: 0 m			RUN 2 SERVICE ORDER #: PROGRAM VERSION: FLUID LEVEL:		
LOGGED INTERVAL	START	STOP	LOGGED INTERVAL	START	STOP

EQUIPMENT	DESCRIPTION
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	RUN 1	RUN 2
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1
11	1	1
12	1	1
13	1	1
14	1	1
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96	1	1
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98	1	1
99	1	1
100	1	1

SURFACE EQUIPMENT

GSR-U 2003
WITM (DTS)-A 964

DOWNHOLE EQUIPMENT

LEH-QT 1519
LEH-QT 1519



32.36

DTPC-A
ECH-KJ 64
DTPC-A 64



31.47

DTC-H 8457
ECH-KH
DTCH0-A
DTCH1-A

CTEM
TelStatus
ToolStatu

28.40

27.76

29.64

DTA-A 8351
ECH-KE 8351
DTA-A 8351



27.76

HNGS-BA
HNGS-BA 28
HNSH-BA 28

Upper_1
Lower_2

25.84

25.63

26.55

HNGC-A
HNGH-A 3

HNGC Stat



23.51

24.05

DSST-B
SPAC-B 8056
ECH-SD 8038
SMDR-BD 8094
SSIJ-BA 8142
SMDX-AA 8063



22.98

1.5 IN
Standoff

1.5 IN
Standoff

FBST-B
ECH-MRA 4742
FBCC-A 794
AH-185 909
FBSH-A 855
GPIC-AC 735
FBSC-B 858
FBSS-B 830



MAXIMUM STRING DIAMETER 6.63 IN
MEASUREMENTS RELATIVE TO TOOL ZERO
ALL LENGTHS IN METERS

1.5 IN
Standoff

7.43

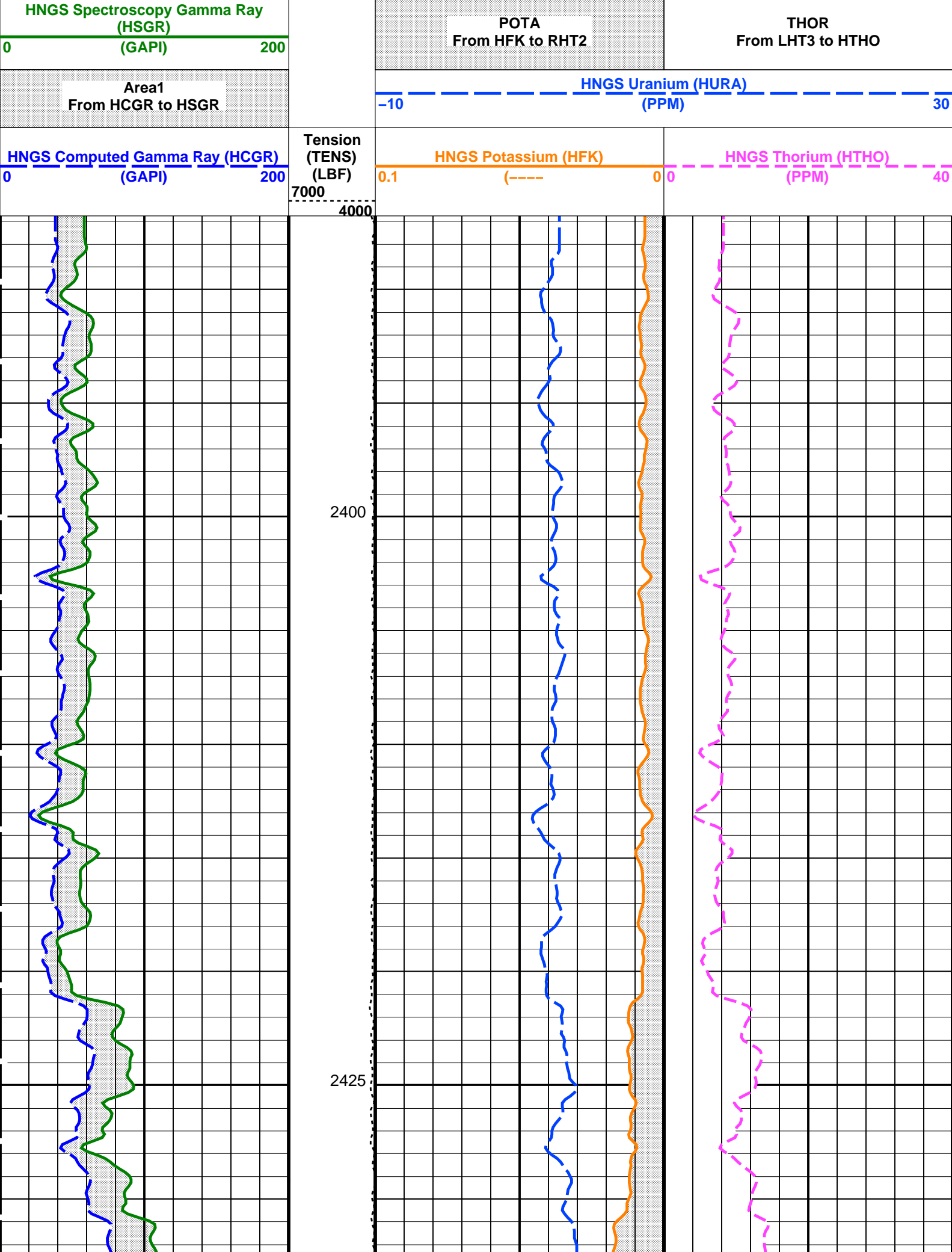
1.5 IN
Standoff

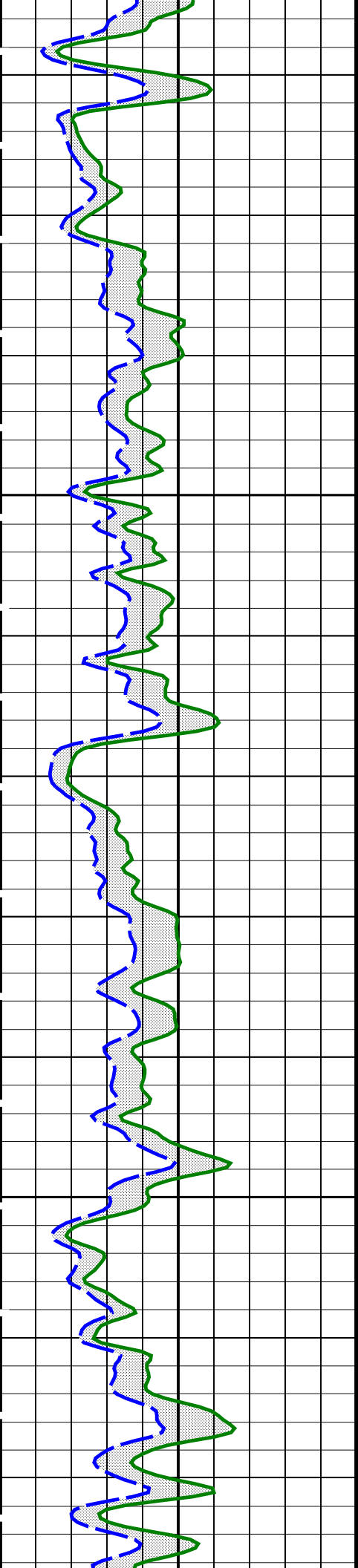
Client: Origin Energy Resources Ltd.
Well: Trefoil-1
Field: Trefoil
State: Tasmania
Country: Australia

Drawing Date: 11/23/2004
API #:

Rig Name: ENSCO 102
Reference Datum: Mean Sea Level
Elevation: 39.6 m

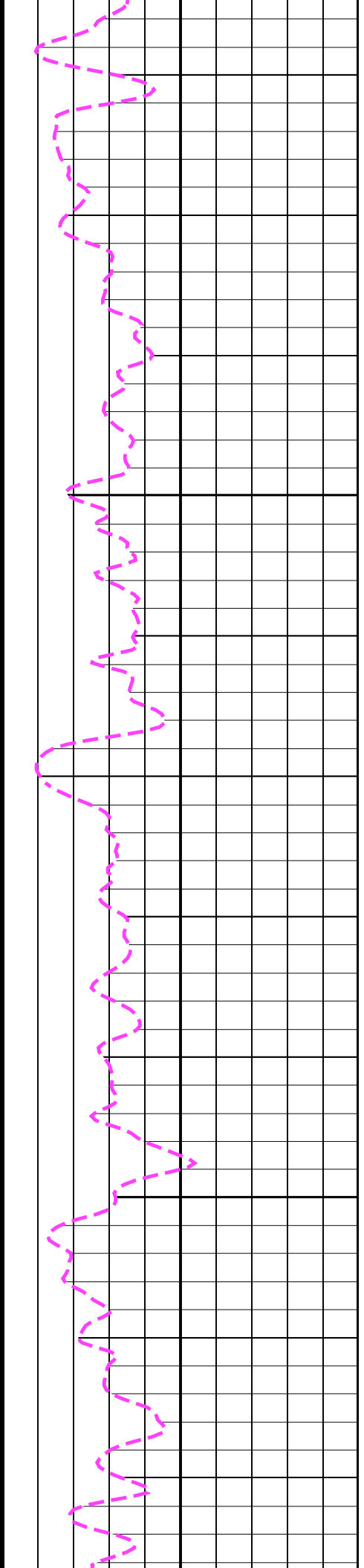
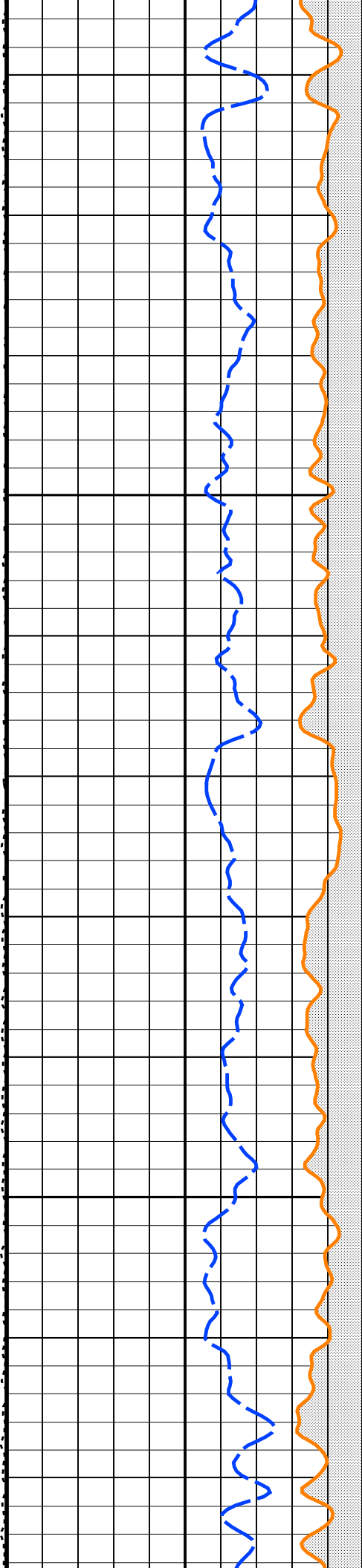
Production String	(in)		(m)	Well Schematic	(m)	(in)		Casing String
	OD	ID	MD		MD	OD	ID	
					0.0	18.000		Casing Segment
					142.6	38.000		Borehole Segment Bottom
					142.6	26.000		Borehole Segment
					214.6	26.000		Borehole Segment Bottom
					214.6	16.000		Borehole Segment
					659.6	18.000		Borehole Segment Bottom
					659.6	12.250		Borehole Segment

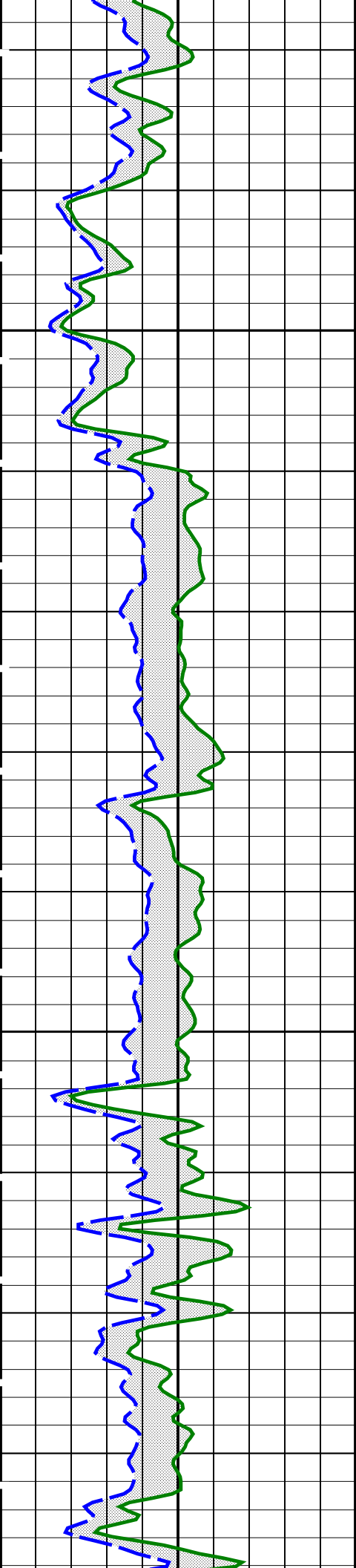




2450

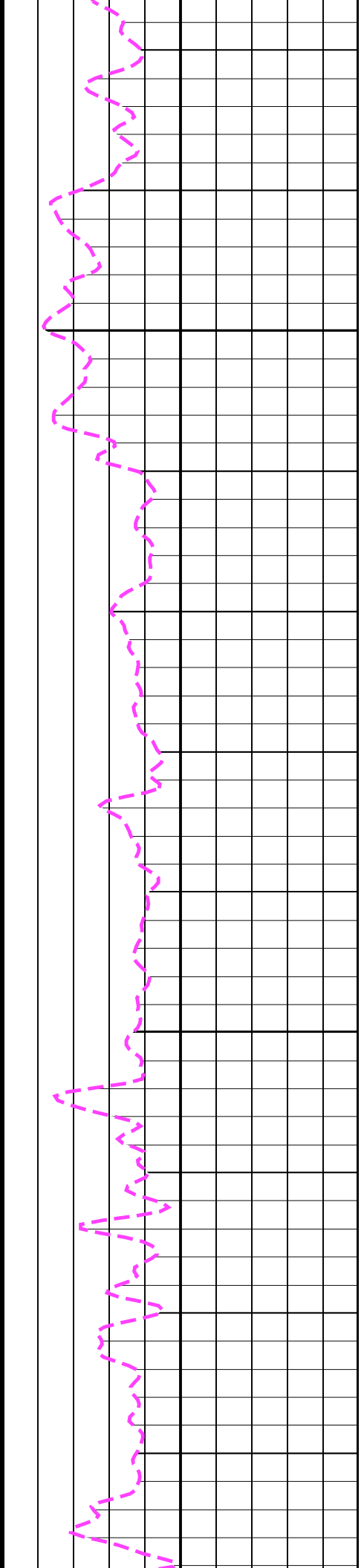
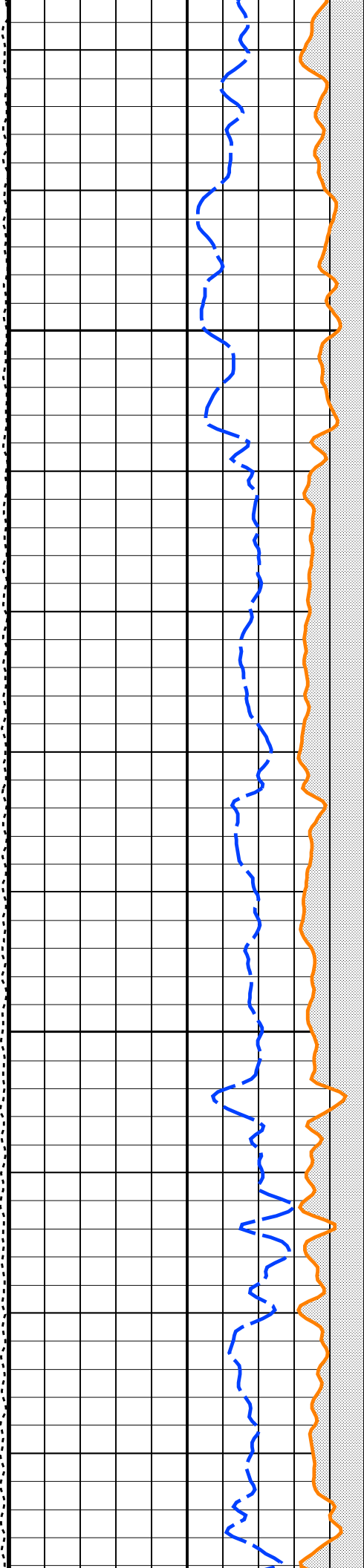
2475

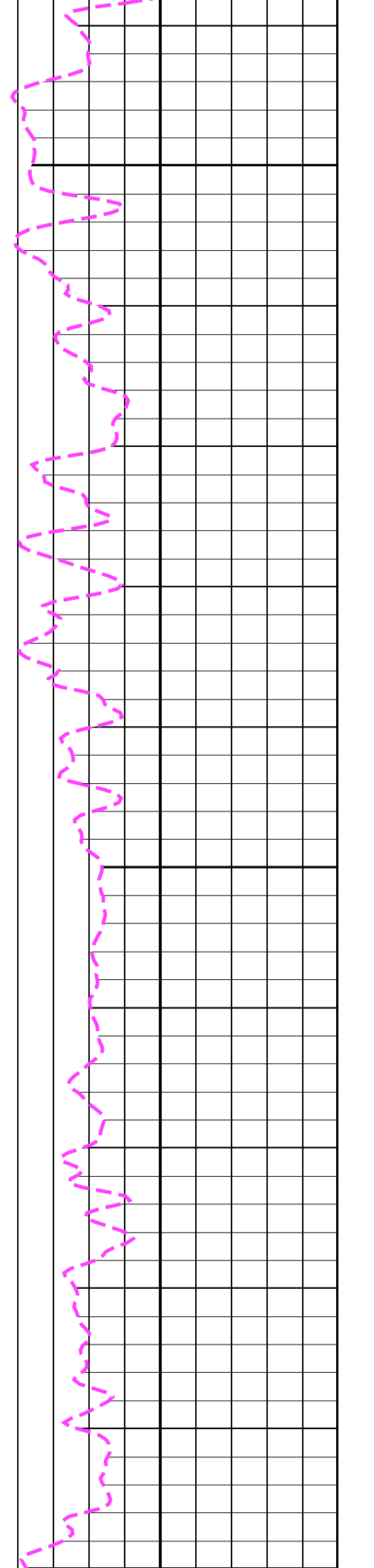
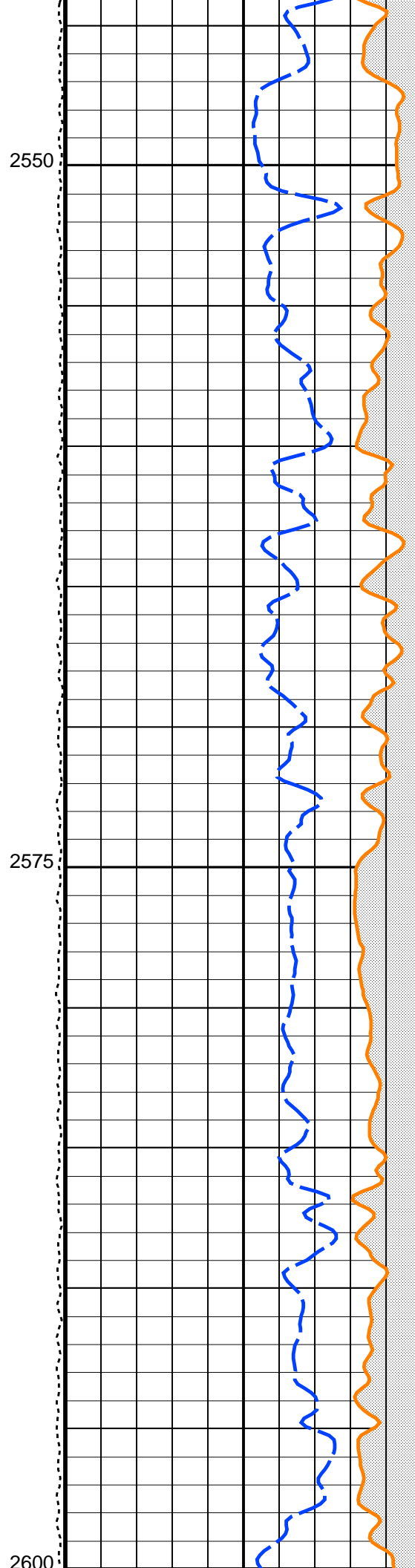
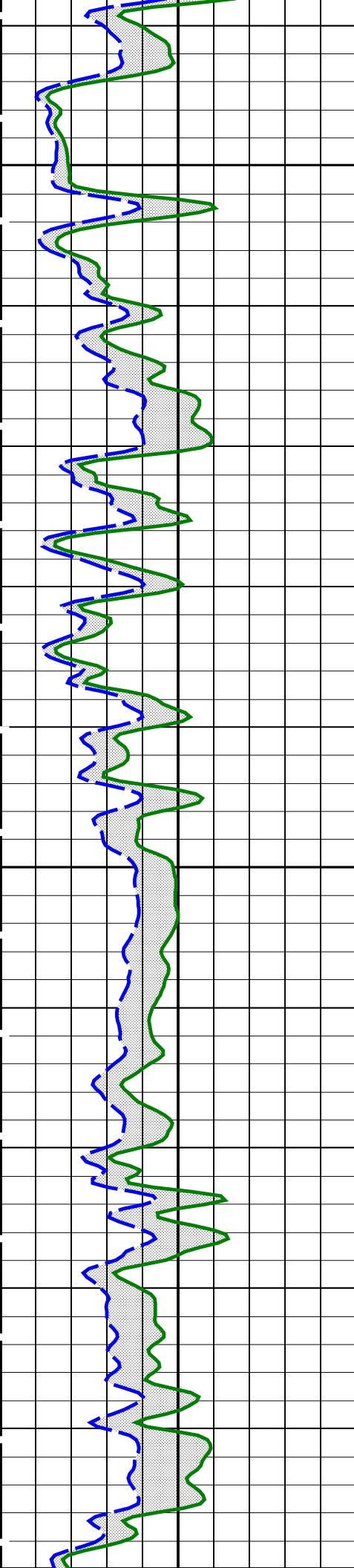


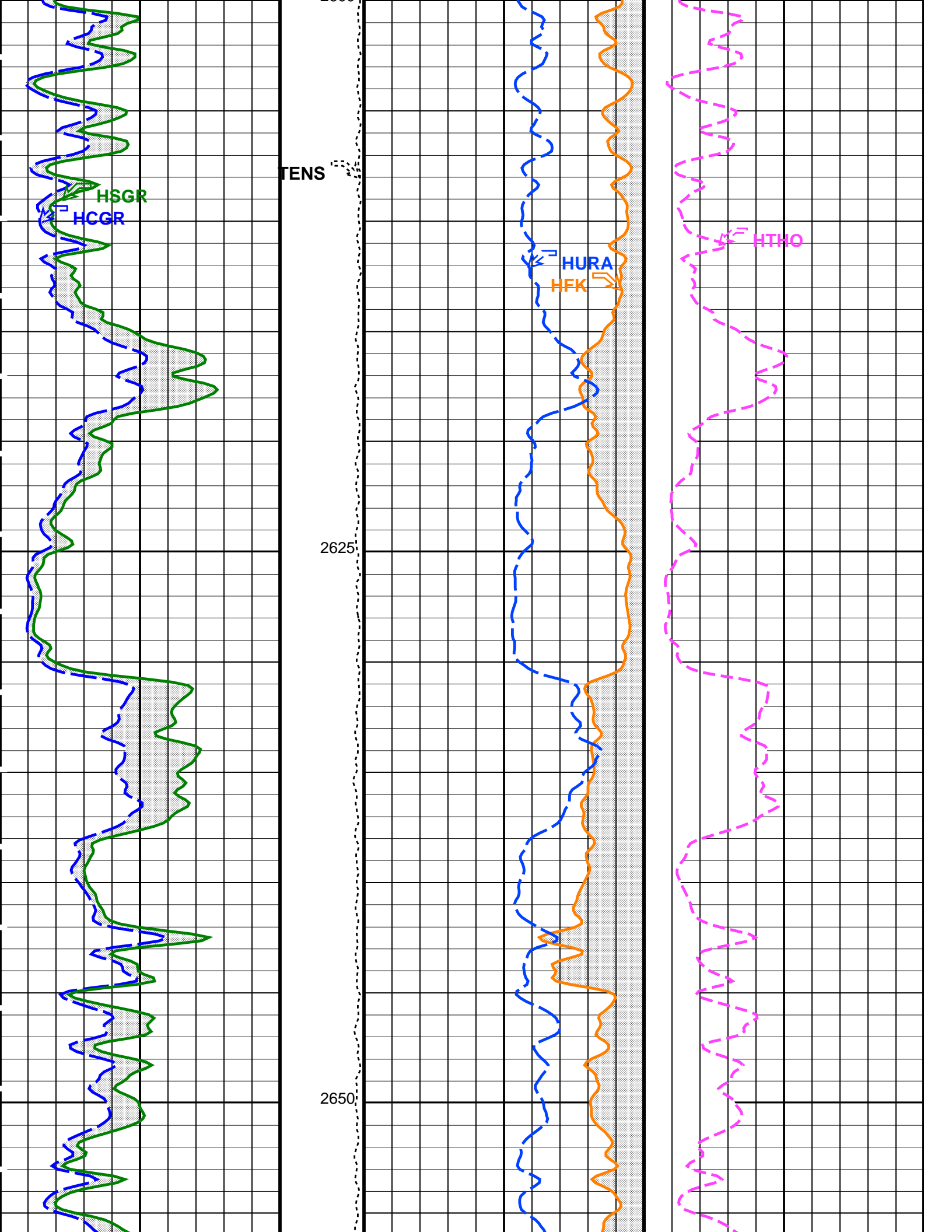


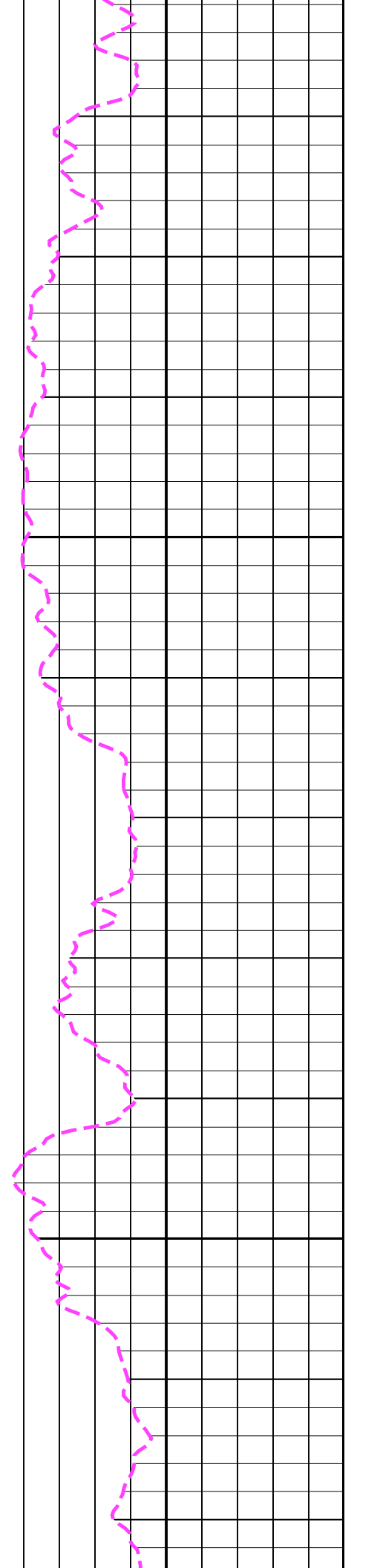
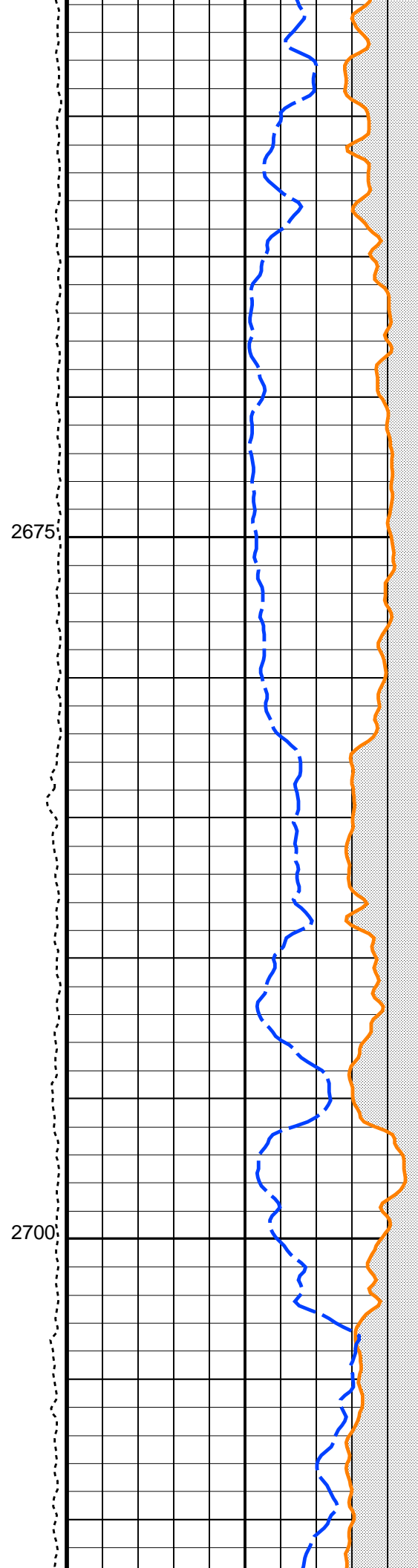
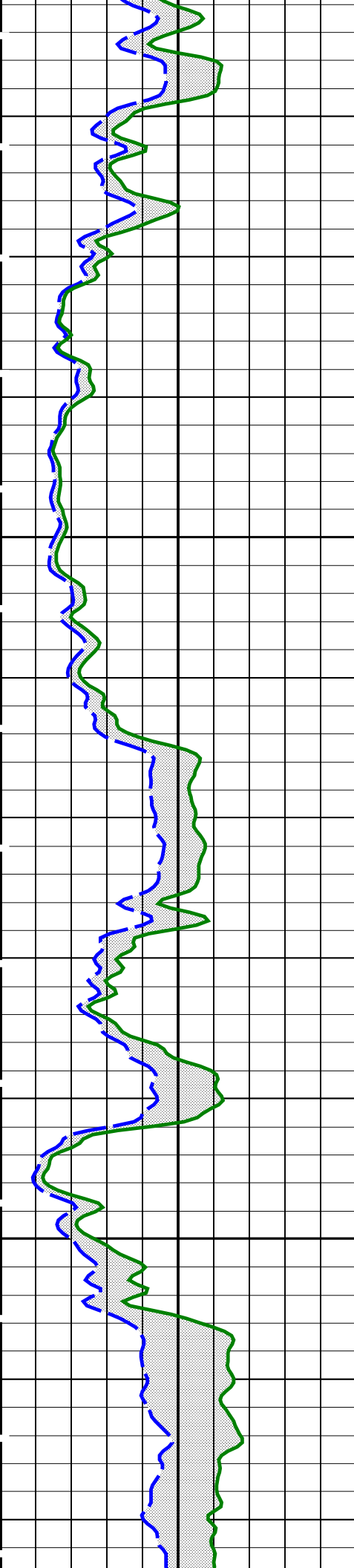
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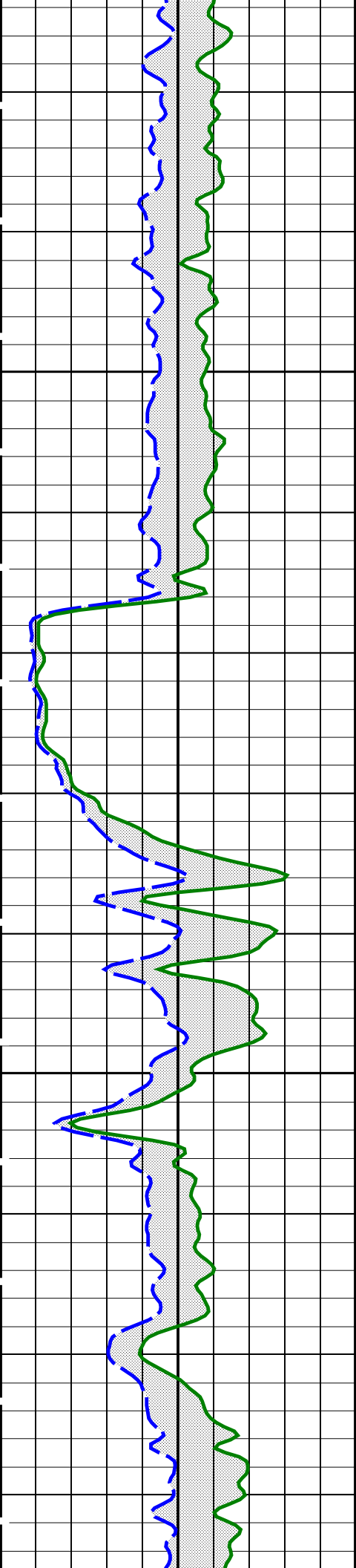
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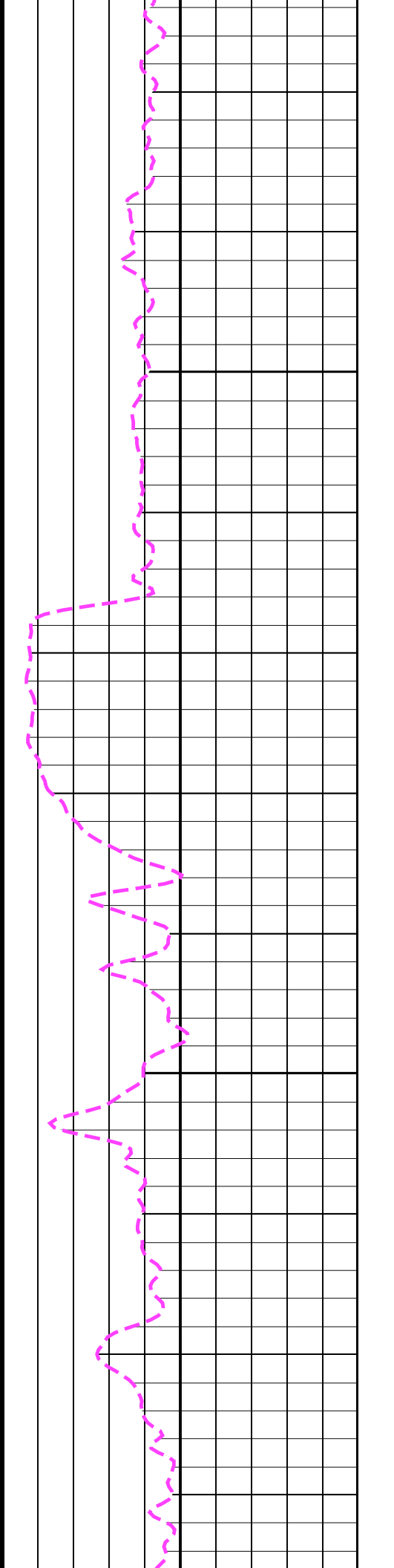
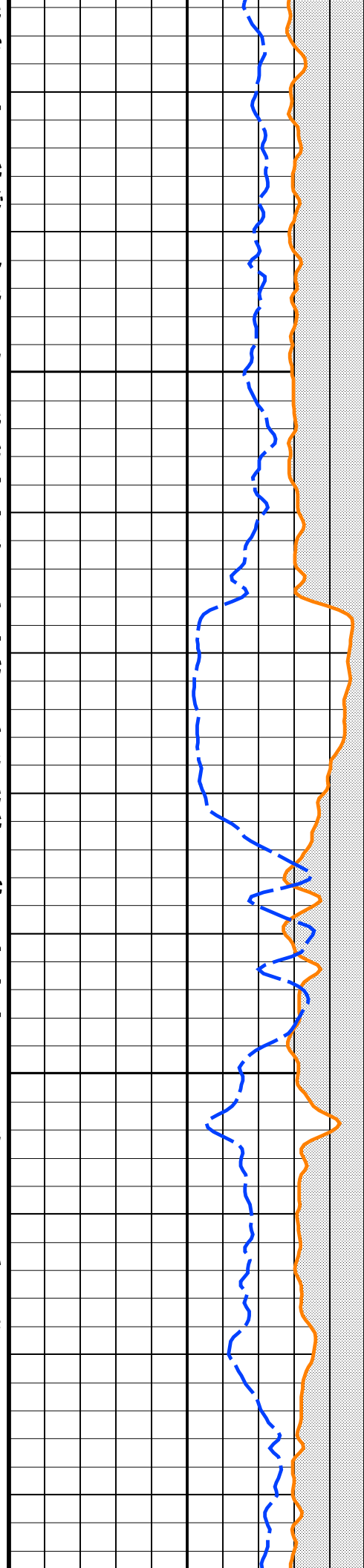


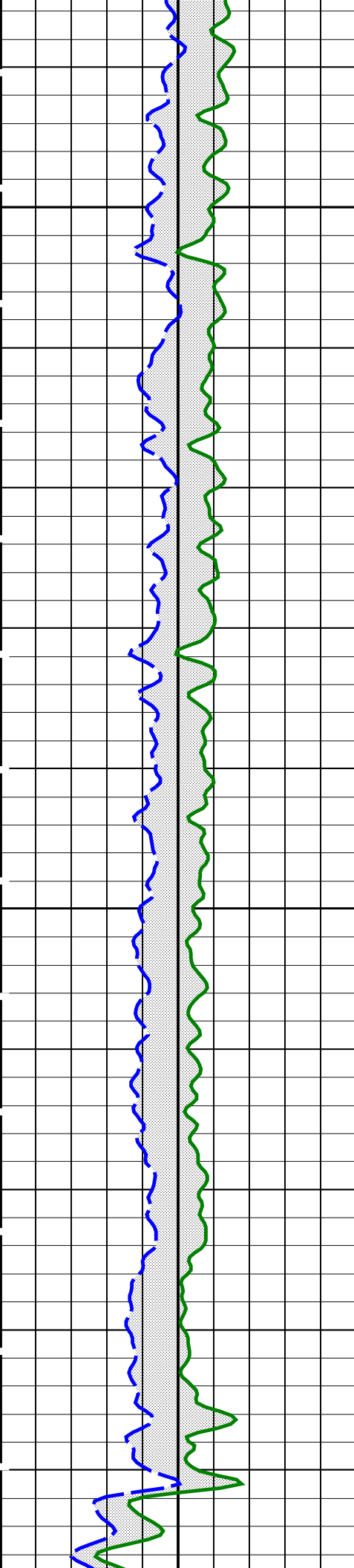




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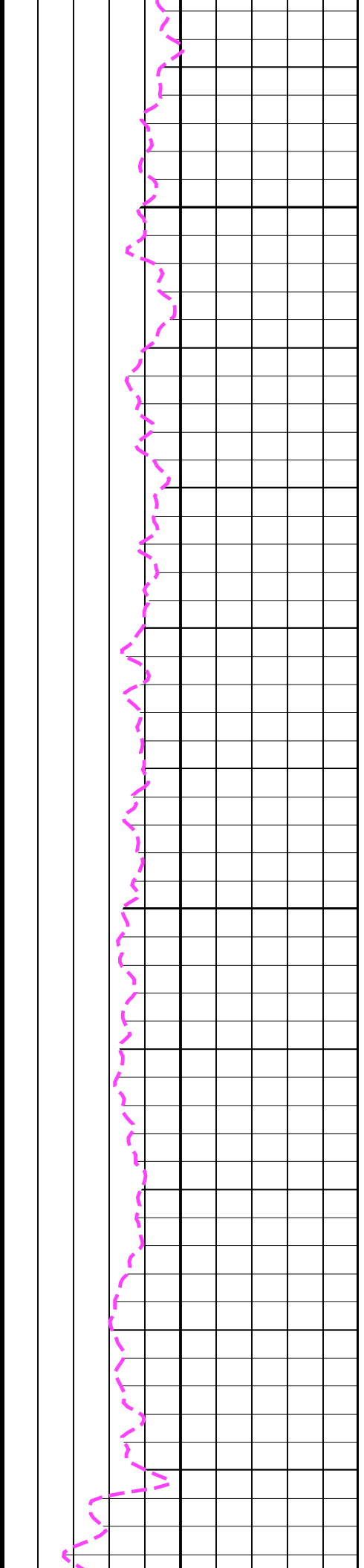
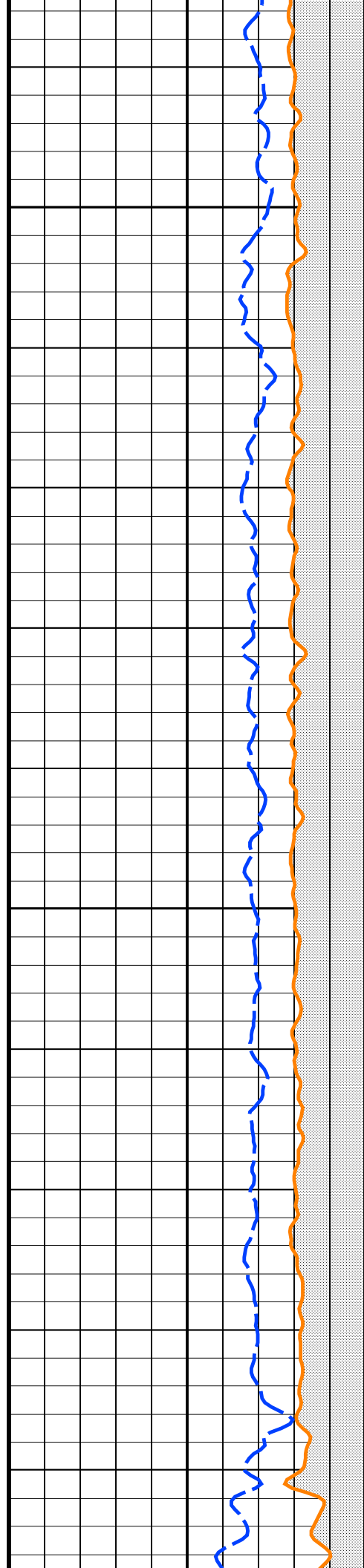
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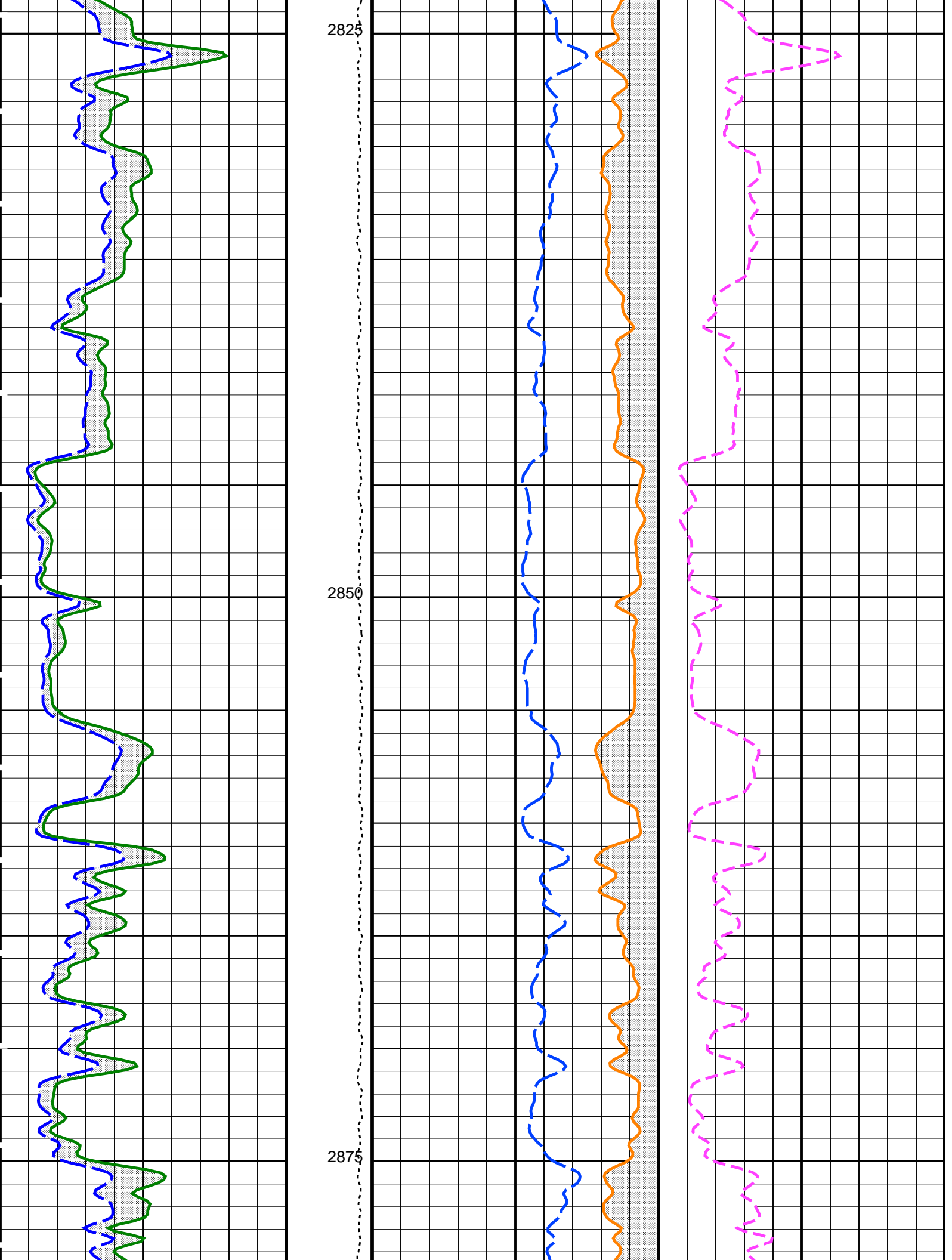


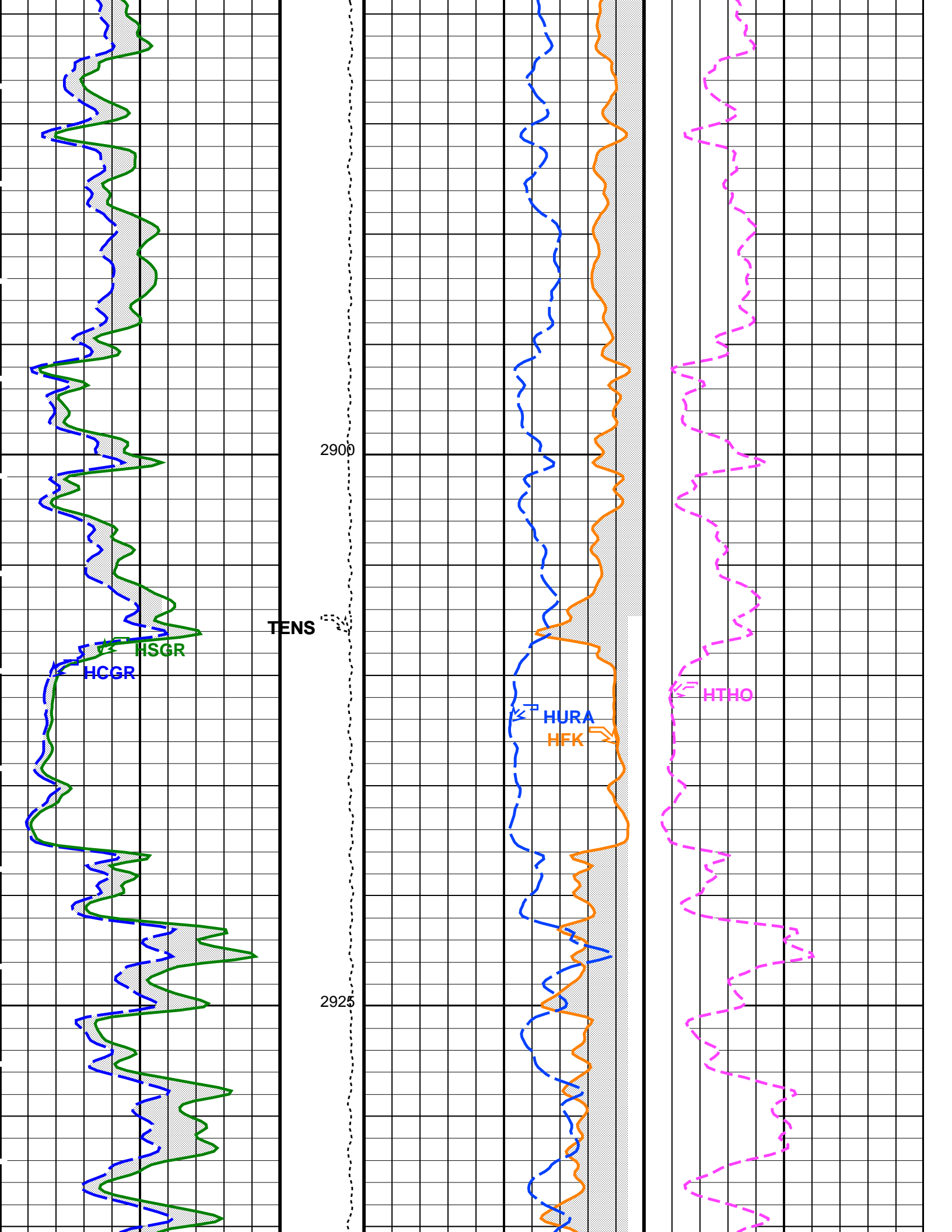


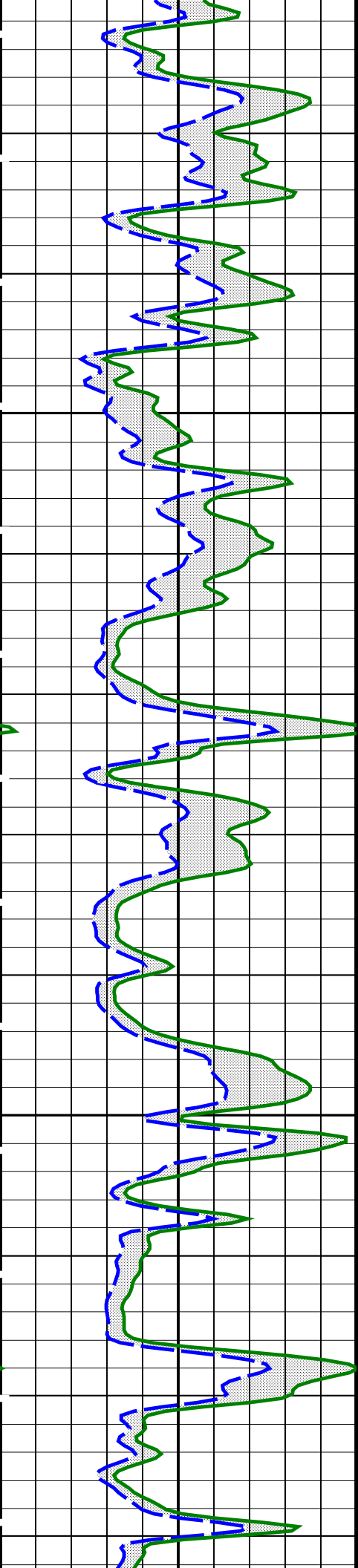
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2800



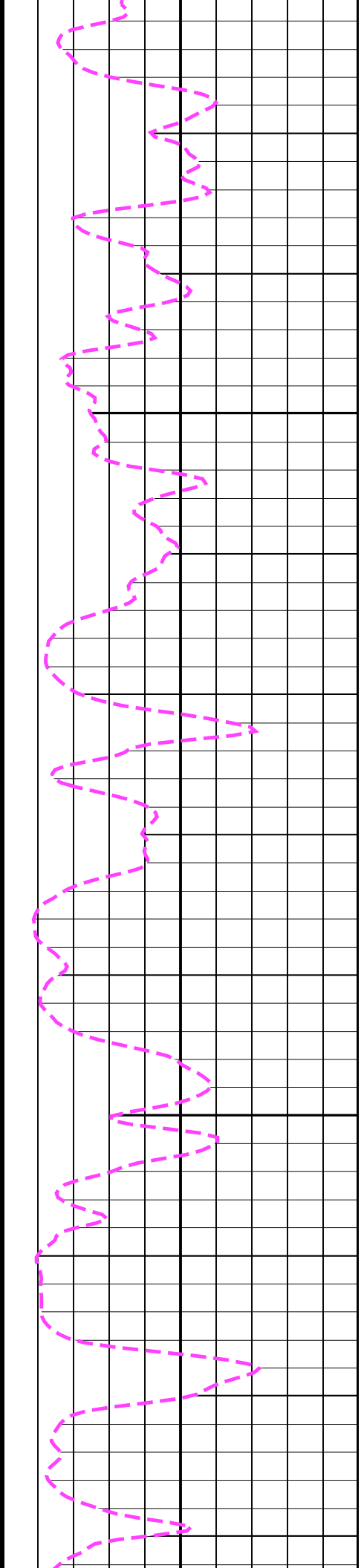
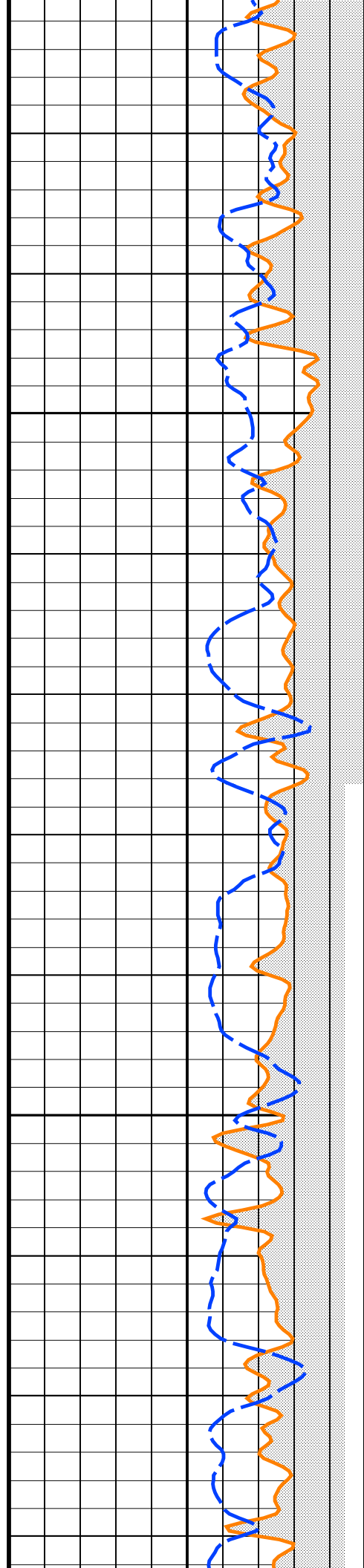


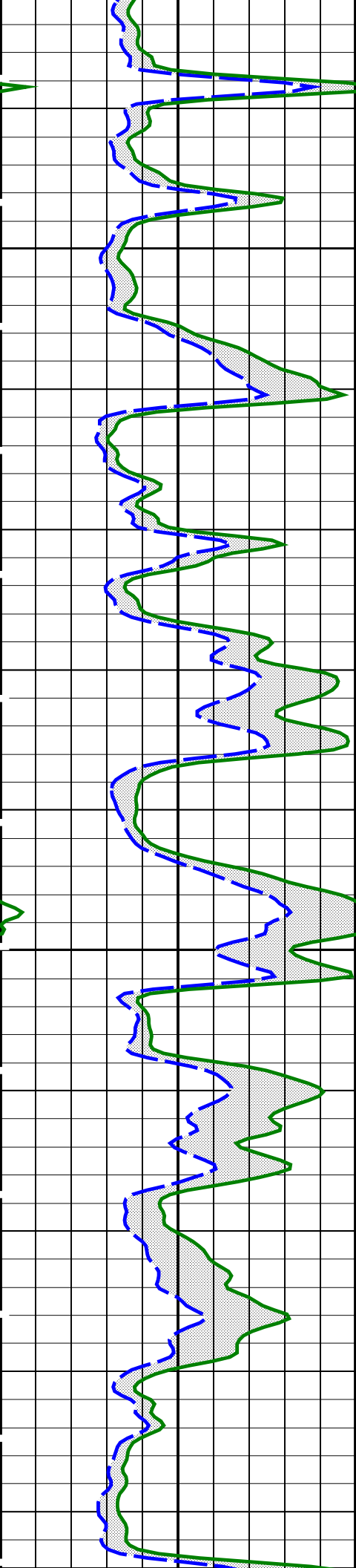




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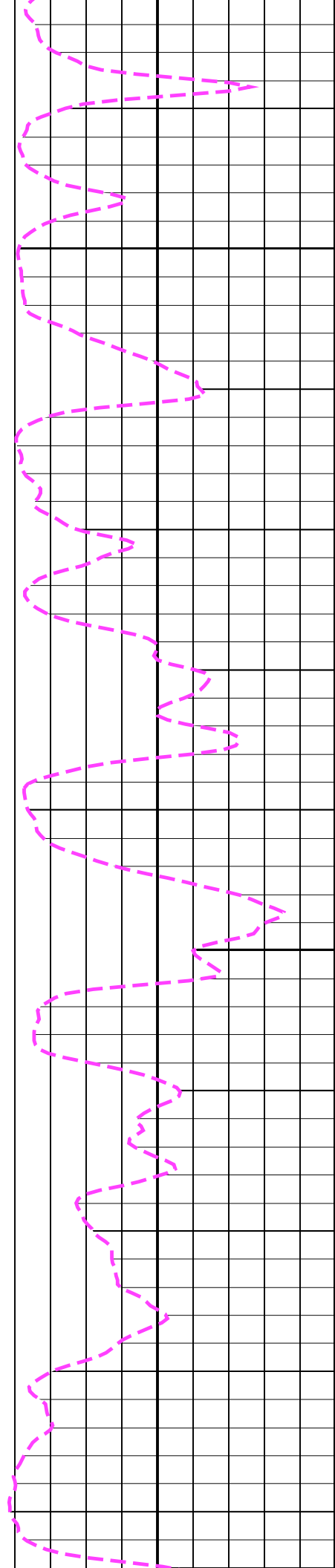
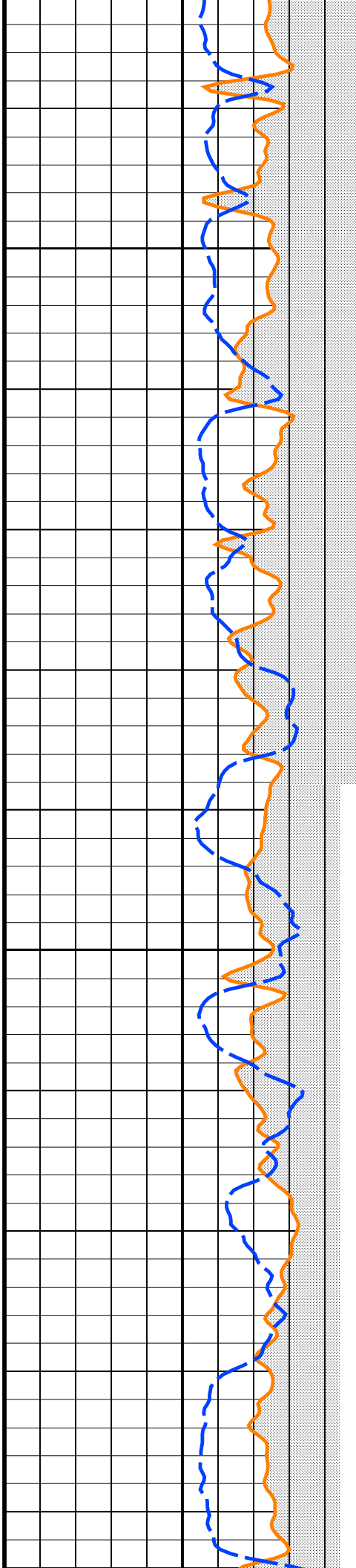
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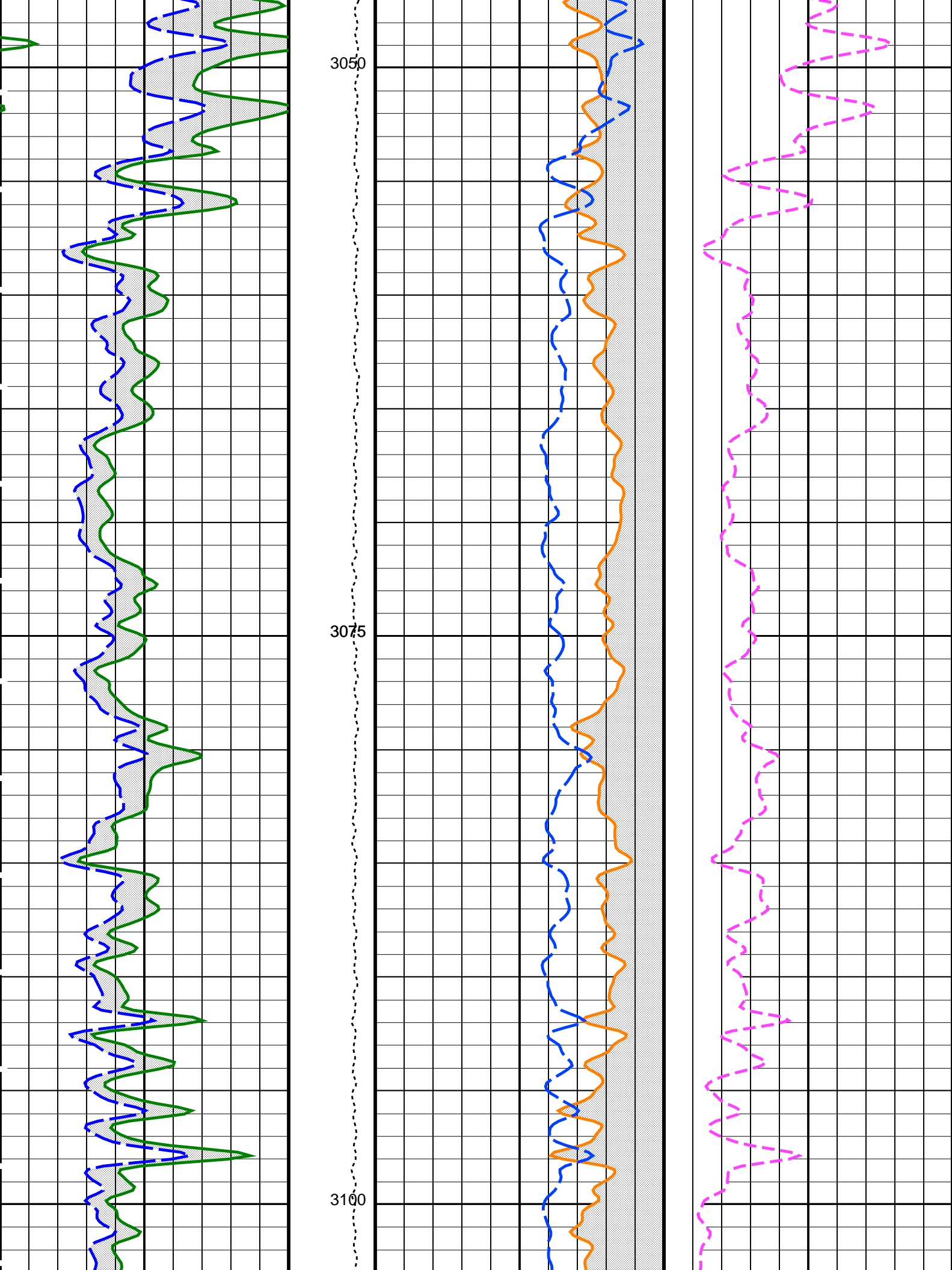


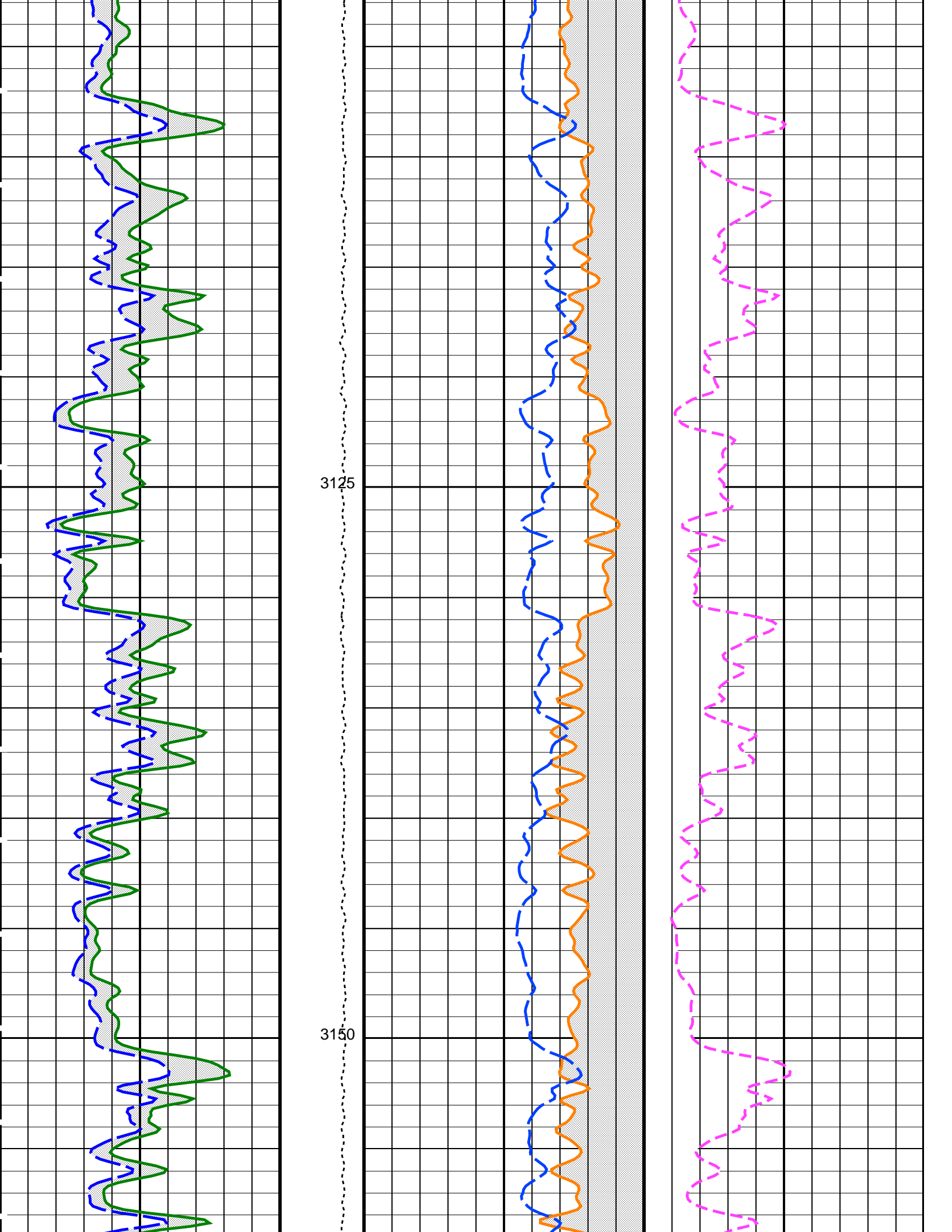


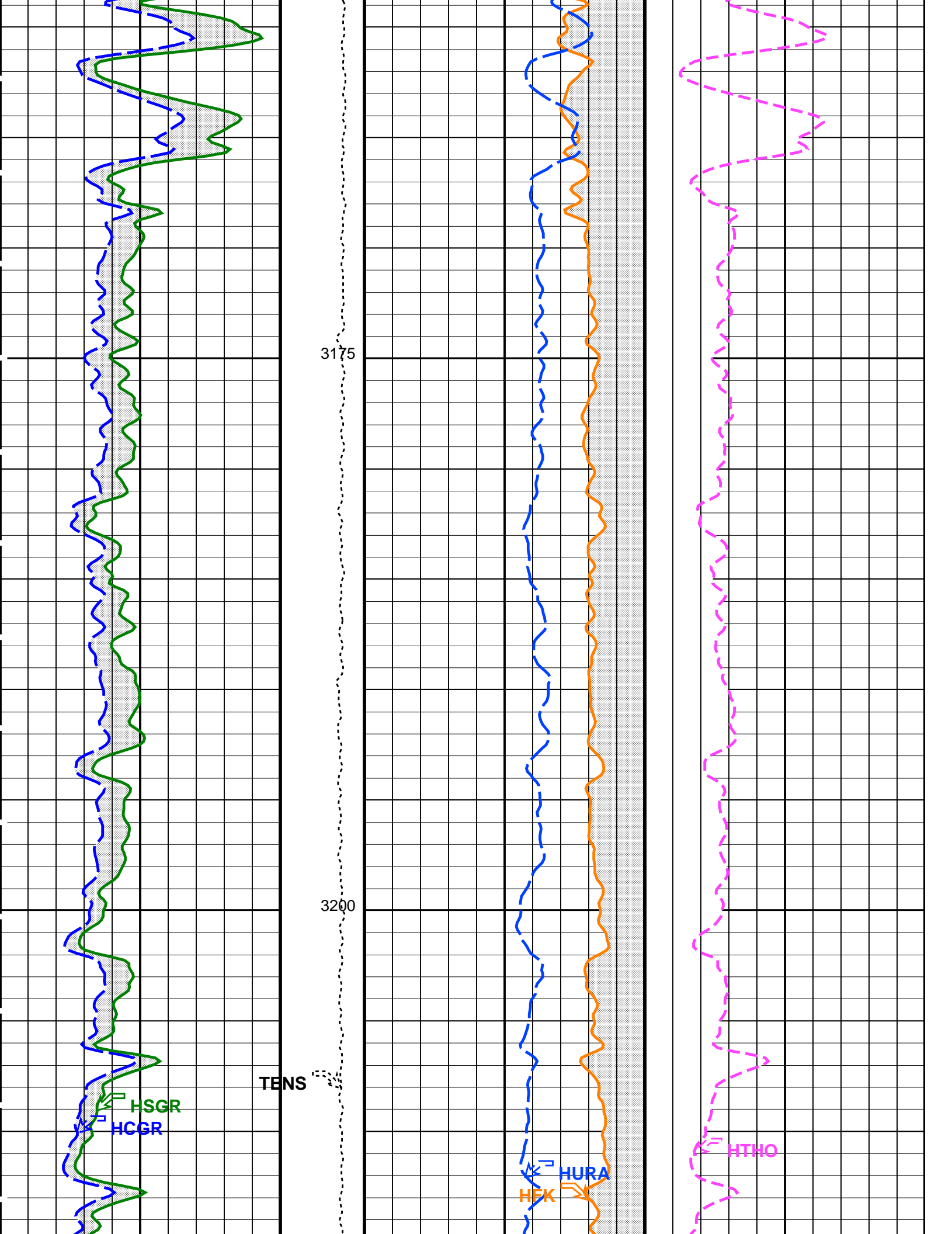
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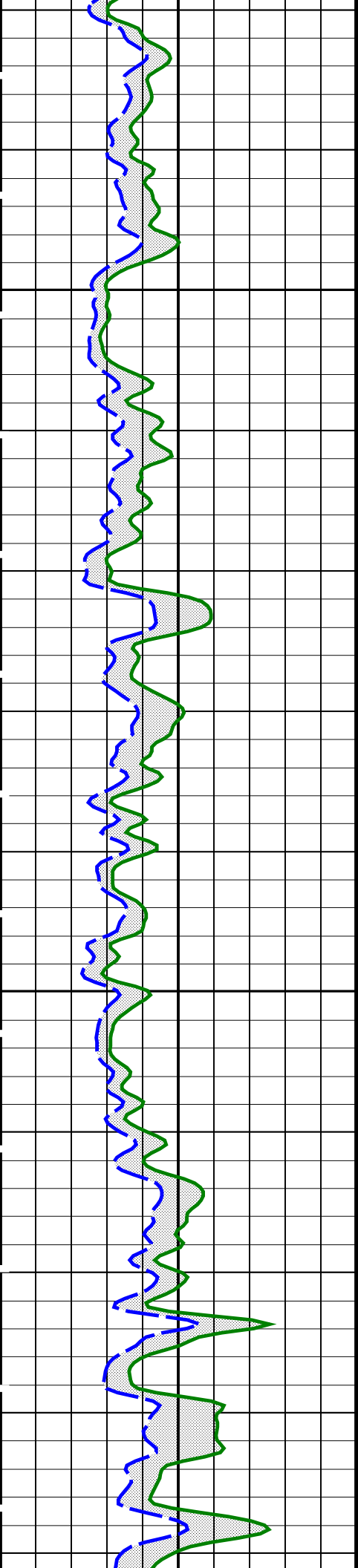
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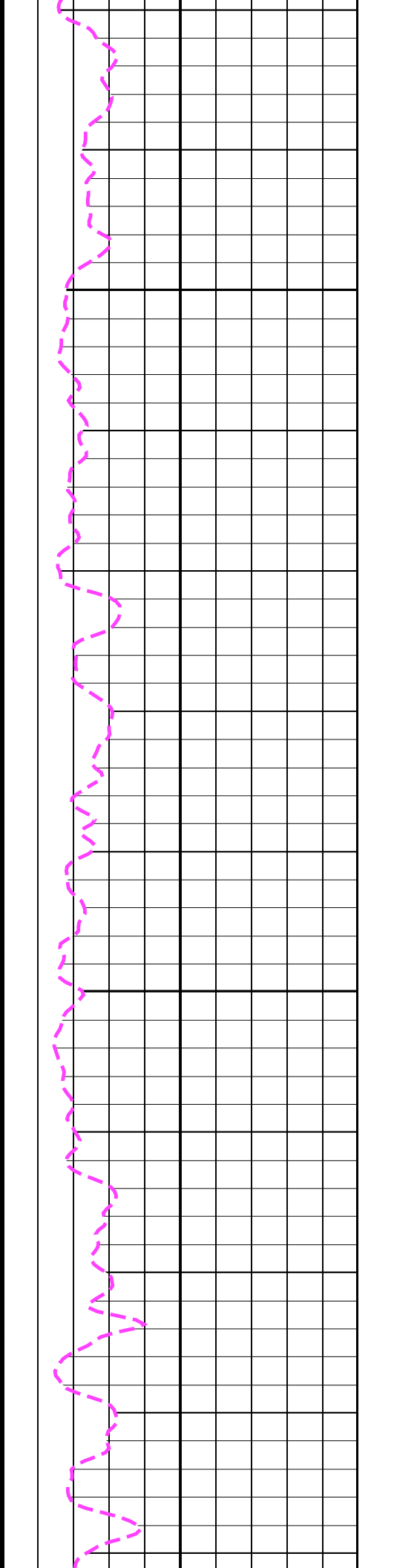
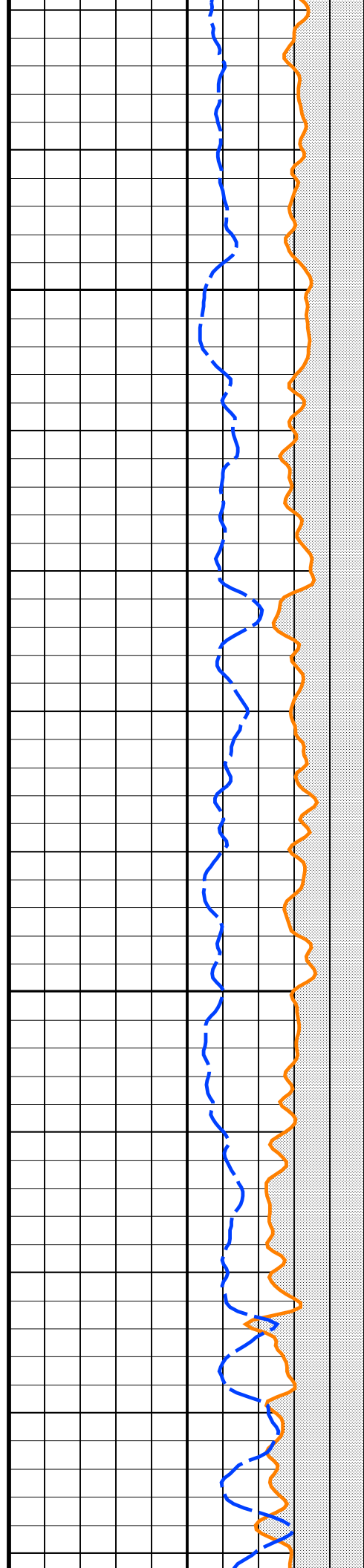


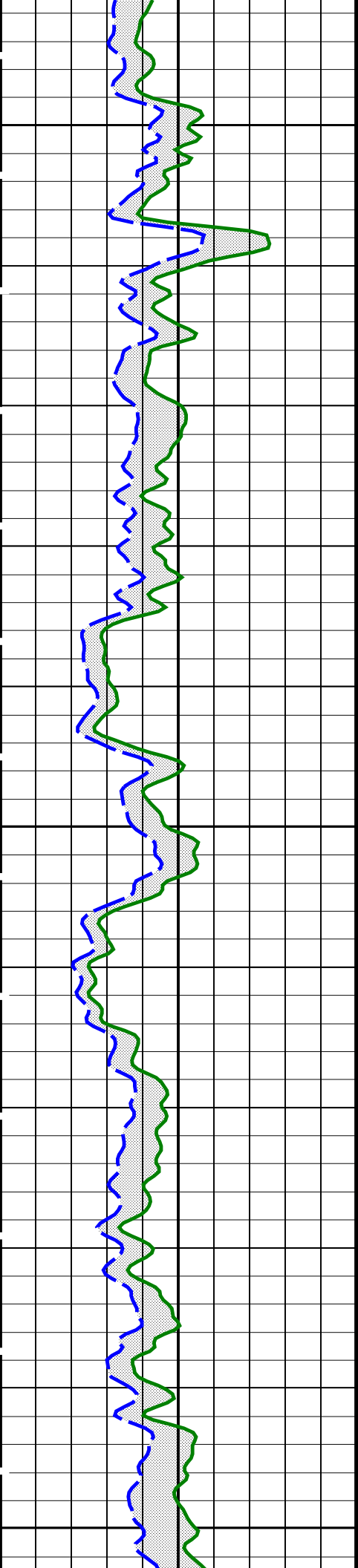




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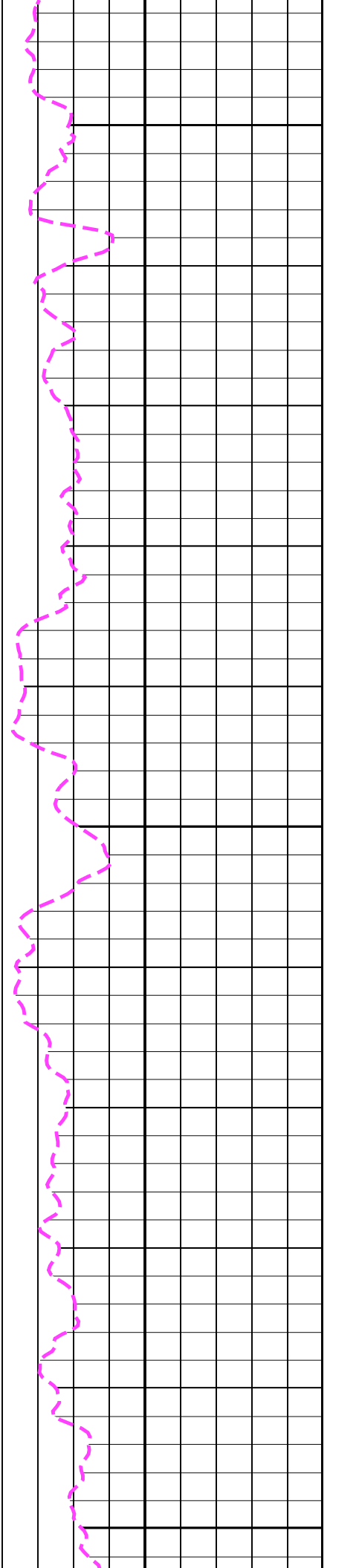
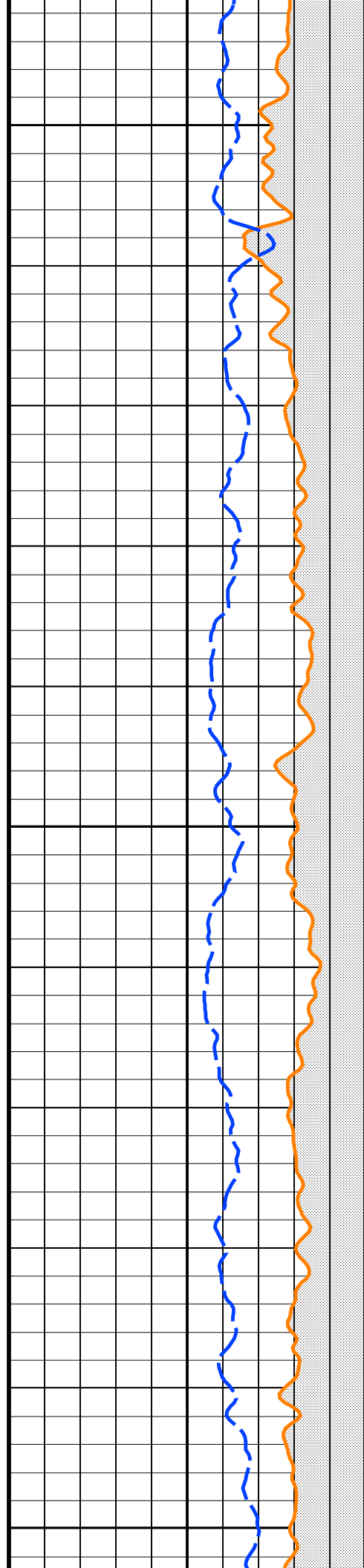


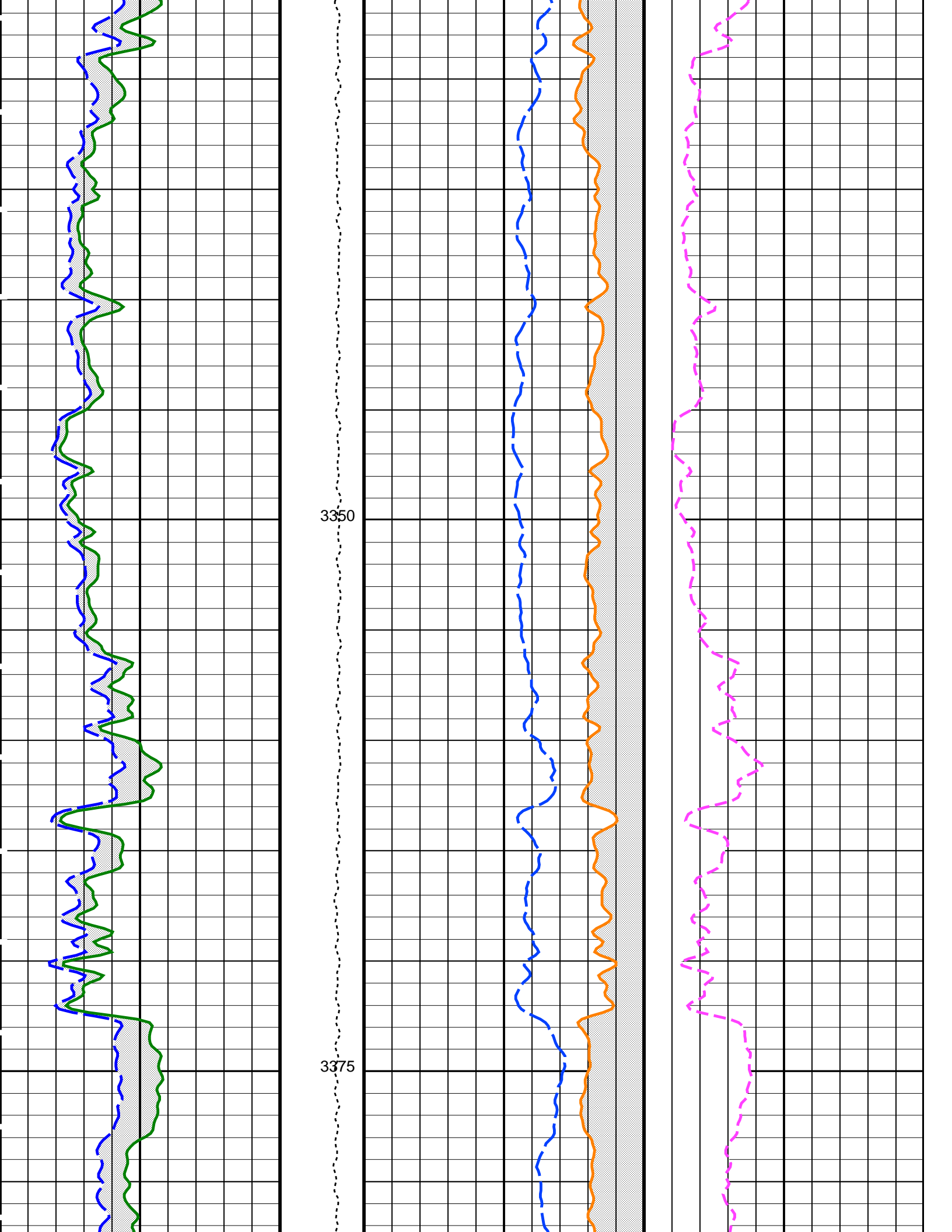


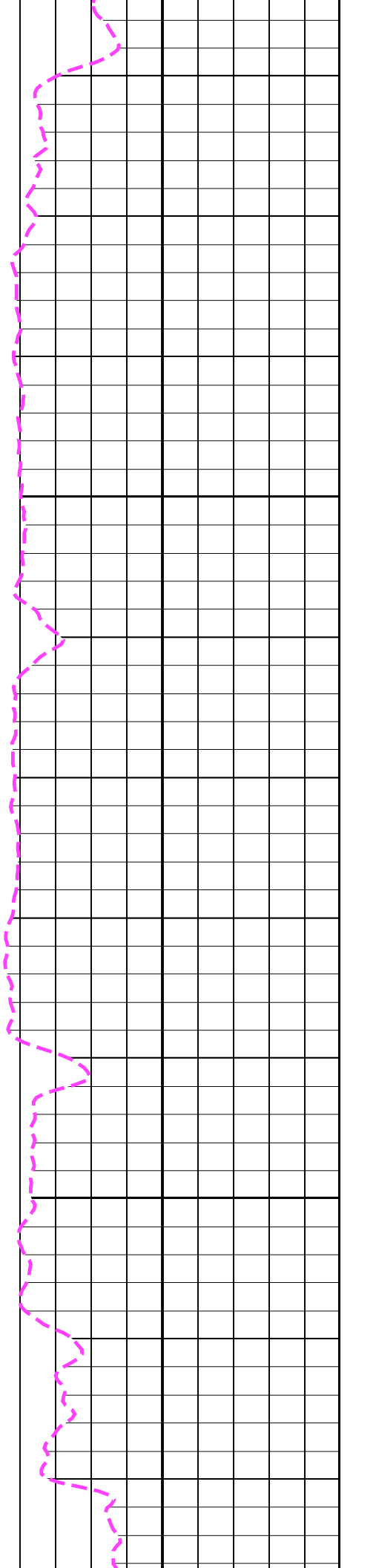
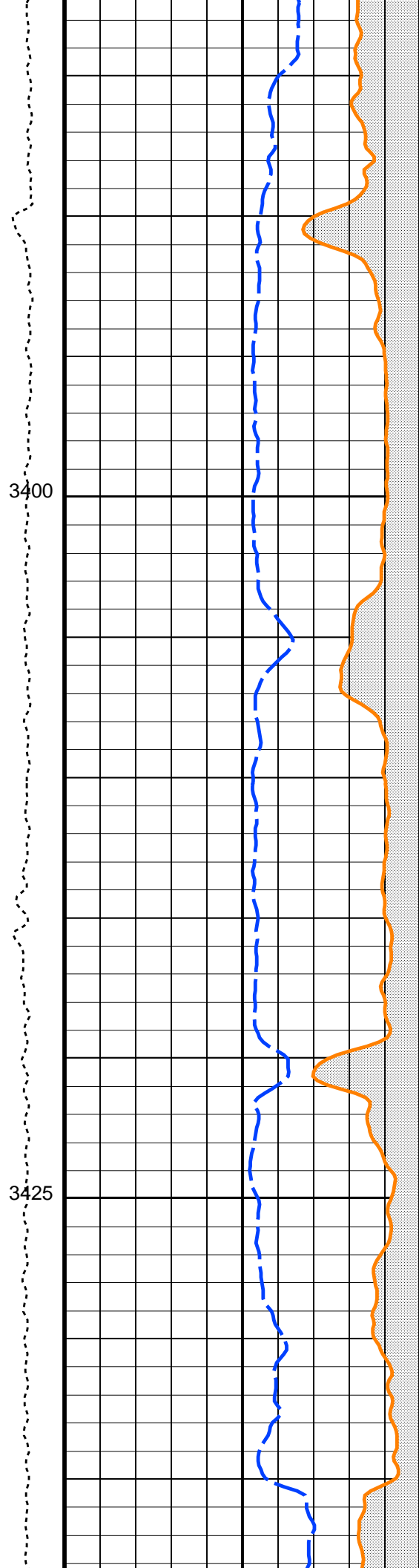
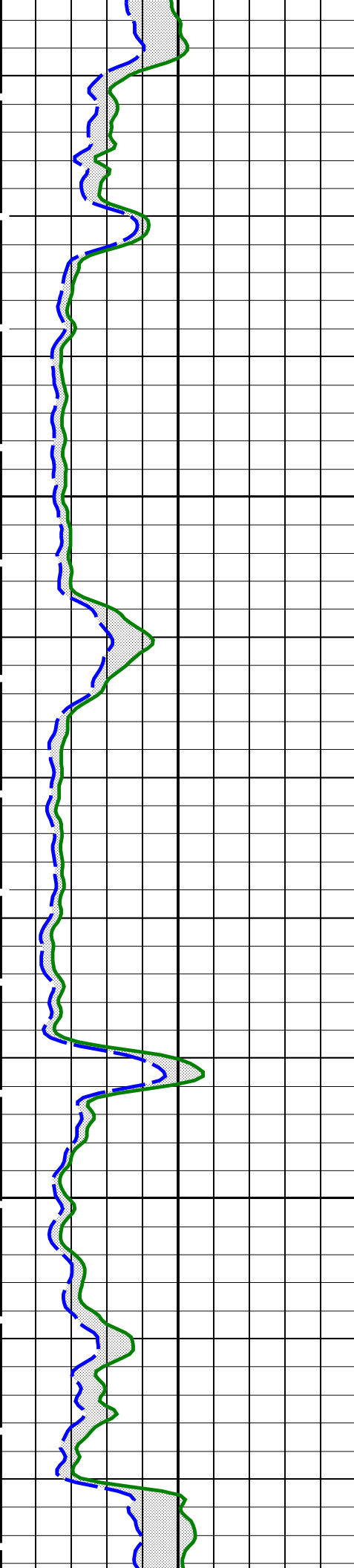
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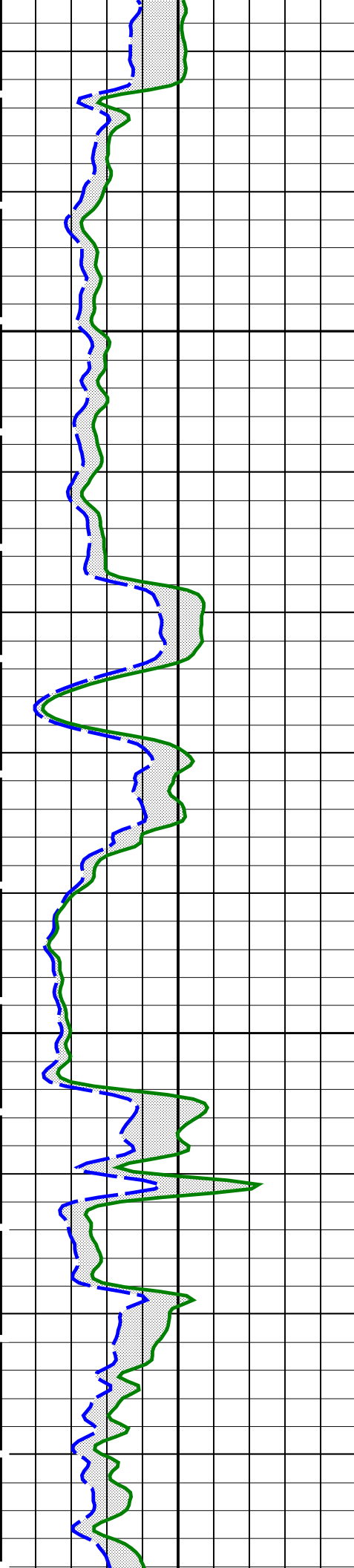
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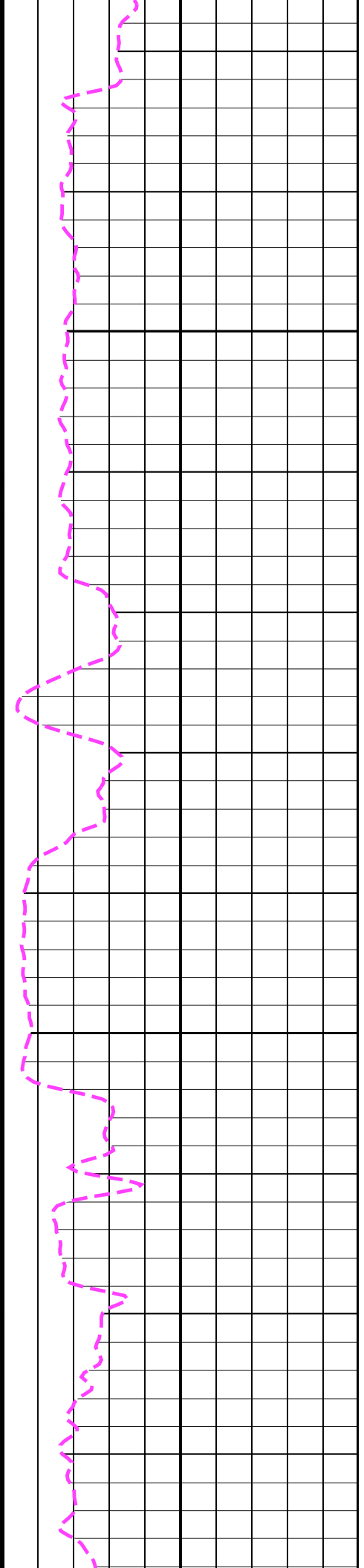
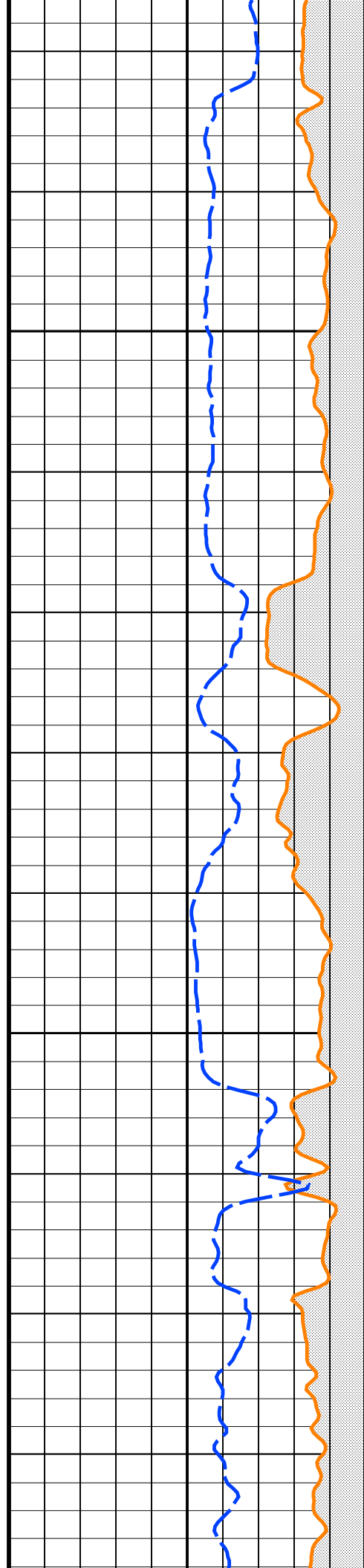






3450

3475



Input DLIS Files

02-Dec-2004 06:55

Output DLIS Files

DEFAULT

FMI_DSI_NGS_092PUP

FN:84

PRODUCER

02-Dec-2004 11:55

Schlumberger

Calibrations

MAXIS Field Log

Calibration and Check Summary

Measurement	Nominal	Master	Before	After	Change	Limit	Units
Full-Bore Scanner – B Wellsite Calibration – Caliper Calibration							
Before: 21-Nov-2004 7:12							
Caliper 1 Small Jig	8.000	N/A	7.026	N/A	N/A	N/A	IN
Caliper 2 Small Jig	8.000	N/A	6.941	N/A	N/A	N/A	IN
Caliper 1 Large Jig	12.00	N/A	11.51	N/A	N/A	N/A	IN
Caliper 2 Large Jig	12.00	N/A	10.94	N/A	N/A	N/A	IN
Full-Bore Scanner – B Wellsite Calibration – CROUZET ACCELEROMETER PROM HAS BEEN READ CORRECTLY							
Before: 21-Nov-2004 5:10							
TEMPERATURE REFERENCE :	N/A	N/A	20	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	95	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	6	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	292	N/A	N/A	N/A	
Full-Bore Scanner – B Wellsite Calibration – CROUZET MAGNETOMETER PROM HAS BEEN READ CORRECTLY							
Before: 21-Nov-2004 5:10							
TEMPERATURE REFERENCE :	N/A	N/A	31	N/A	N/A	N/A	DEGC
YEAR OF CALIBRATION :	N/A	N/A	92	N/A	N/A	N/A	
MONTH OF CALIBRATION :	N/A	N/A	12	N/A	N/A	N/A	
SERIAL NUMBER :	N/A	N/A	173	N/A	N/A	N/A	
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 1 Check							
Master: 20-Nov-2004 23:57 Before: 21-Nov-2004 7:15							
Na 511 Peak Loc	40.00	40.59	40.47	N/A	N/A	1.000	
Na 511 Peak Res	15.50	17.06	18.36	N/A	N/A	2.000	%
High Voltage	1150	1286	1288	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	145.3	146.2	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	10.48	9.773	N/A	N/A	2.000	%
Temperature	15.50	19.43	19.78	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	21.72	21.01	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Detector 2 Check							
Master: 20-Nov-2004 23:57 Before: 21-Nov-2004 7:15							
Na 511 Peak Loc	40.00	40.58	40.62	N/A	N/A	1.000	
Na 511 Peak Res	15.50	16.30	16.18	N/A	N/A	2.000	%
High Voltage	1150	1245	1247	N/A	N/A	N/A	V
Na 1785 Peak Loc	142.6	145.2	144.8	N/A	N/A	7.000	
Na 1785 Peak Res	8.500	9.098	8.969	N/A	N/A	2.000	%
Temperature	15.50	20.06	20.28	N/A	N/A	N/A	DEGC
Na Count Rate	45.00	21.82	21.06	N/A	N/A	8.000	CPS
Hostile Natural Gamma Ray Sonde Wellsite Calibration – Ratio Of Detector 1 To Detector 2							
Master: 20-Nov-2004 23:57 Before: 21-Nov-2004 7:15							
Coincidence Count Rate Ratio	1.000	0.9940	0.9959	N/A	N/A	0.05000	

Hostile Natural Gamma Ray Sonde Master Calibration – Detector 1 Calibration

Master: 20-Nov-2004 23:57

Na 511 Peak Set Point	40.00	42.00	--	--	--	--
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Th Peak Loc	209.6	208.8	--	--	--	--	%
Th Peak Res	7.000	8.378	--	--	--	--	
Background Count Rate	142.5	16.70	--	--	--	--	CPS
Gain Ratio	1.000	0.9789	--	--	--	--	
Hostile Natural Gamma Ray Sonde Master Calibration – Detector 2 Calibration							
Master: 20–Nov–2004 23:57							
Na 511 Peak Set Point	40.00	42.00	--	--	--	--	
Th Peak Loc	209.6	209.4	--	--	--	--	
Th Peak Res	7.000	7.666	--	--	--	--	%
Background Count Rate	142.5	15.85	--	--	--	--	CPS
Gain Ratio	1.000	0.9815	--	--	--	--	

Full-Bore Scanner – B / Equipment Identification

Primary Equipment:

FullBore Scanner Sonde	FBSS – B	830
FullBore Scanner Sonde Upper part	FBSH – A	855
FullBore Scanner Sonde Cartridge	FBSC – B	858
GPIT Cartridge – AC	GPIC – AC	735
Insulating Sub	AH – 185	909
FullBore Scanner Control Cartridge	FBCC – A	794

Auxiliary Equipment:

Electronics Cartridge Housing	ECH – MRA	4742
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Full-Bore Scanner – B Wellsite Calibration

Caliper Calibration

Phase	Caliper 1 Small Jig IN	Value	Phase	Caliper 2 Small Jig IN	Value
Before		7.026	Before		6.941
	6.800 (Minimum) 8.000 (Nominal) 9.200 (Maximum)			6.800 (Minimum) 8.000 (Nominal) 9.200 (Maximum)	
Phase	Caliper 1 Large Jig IN	Value	Phase	Caliper 2 Large Jig IN	Value
Before		11.51	Before		10.94
	10.20 (Minimum) 12.00 (Nominal) 13.80 (Maximum)			10.20 (Minimum) 12.00 (Nominal) 13.80 (Maximum)	

Before: 21–Nov–2004 7:12

Hostile Natural Gamma Ray Cartridge – A / Equipment Identification

Primary Equipment:

HNGC Cartridge	HNGC – A	10
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Auxiliary Equipment:

HNGC Housing	HNGH – A	3
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Hostile Natural Gamma Ray Sonde / Equipment Identification

Primary Equipment:

HNGS Sonde	HNGS – BA	28
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Auxiliary Equipment:

HNGS Sonde Housing	HNSH – BA	28
Gamma Source Radioactive	GSR – U	2003

Hostile Natural Gamma Ray Sonde Wellsite Calibration

Detector 1 Check

Phase	Na 511 Peak Loc	Value	Phase	Na 511 Peak Res %	Value	Phase	High Voltage V	Value
Master		40.59	Master		17.06	Master		1286
Before		40.47	Before		18.36	Before		1288
	37.50 (Minimum) 40.00 (Nominal) 42.50 (Maximum)			12.00 (Minimum) 15.50 (Nominal) 19.00 (Maximum)			900.0 (Minimum) 1150 (Nominal) 1600 (Maximum)	
Phase	Na 1785 Peak Loc	Value	Phase	Na 1785 Peak Res %	Value	Phase	Temperature DEGC	Value
Master		145.3	Master		10.48	Master		19.43

Company: **Origin Energy Resources Ltd.**

Schlumberger

Well: **Trefoil-1**

Field: **Trefoil**

Rig: **ENSCO 102**

Country: **Australia**

FMI-DSI-HNGS
HNGS FIELD PRINT
1:200 Scale