

COMPENSATED DENSITY/NEUTRON LOG

Company BEAR PETROLEUM, LLC.		Company BEAR PETROLEUM, LLC.	
Well	NIEDEREE #1	Well NIEDEREE #1	
Field	BURDETT	Field BURDETT	
County	PAWNEE	County PAWNEE	State KANSAS
Location:	API # : 15-145-21871-0000		Other Services DIL/MEL
Permanent Datum		Elevation	
Log Measured From		K.B. 3190	
Drilling Measured From		D.F. 3189	
SEC 16 TWP 22S RGE 20W		G.L. 3182	
GROUND LEVEL Elevation 3182			
KELLY BUSHING 8' A.G.L			
KELLY BUSHING			
Date	6/30/22		
Run Number	ONE		
Depth Driller	4600		
Depth Logger	4602		
Bottom Logged Interval	4578		
Top Log Interval	2000		
Casing Driller	8 5/8"@1120'		
Casing Logger	1120		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3.000 PPM	
Density / Viscosity	9.4/56		
pH / Fluid Loss	9.5/8.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.70@75F		
Rmf @ Meas. Temp	1.27@75F		
Rmc @ Meas. Temp	2.04@75F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	1.05@121F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	12:00 A.M.		
Maximum Recorded Temperature	119F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBEN		
Witnessed By	ROD ANDERSON		

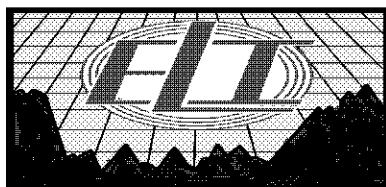
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS:

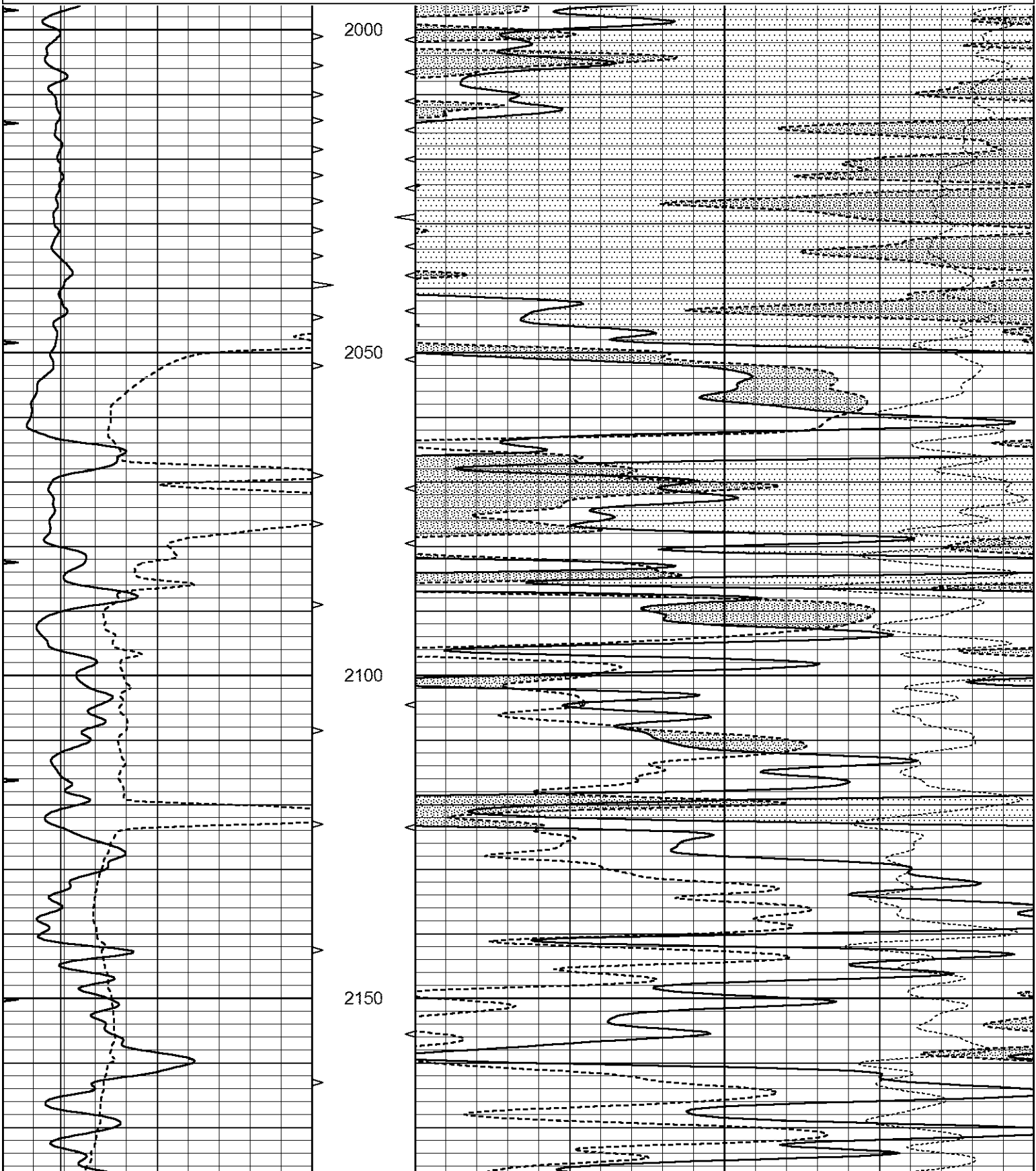
FROM BURDETT, KANSAS GO ONE MILE EAST TO 340TH AVE, THEN THREE
MILES SOUTH AND WEST INTO

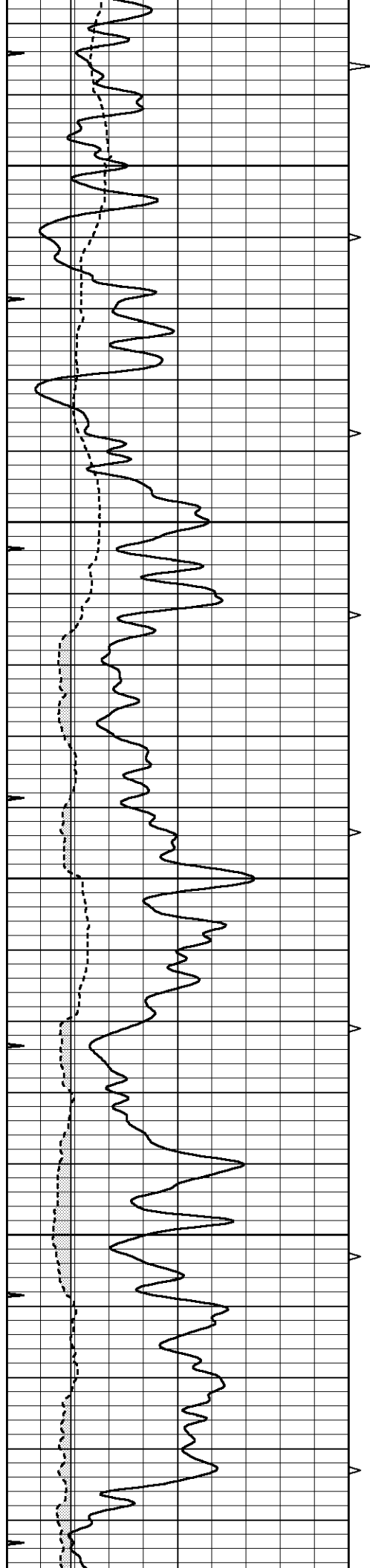


MAIN SECTION

Database File	6549ddn.db
Dataset Pathname	pass4.2P
Presentation Format	den_neu
Dataset Creation	Thu Jun 30 03:34:12 2022
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)			-10
0	MINMK	20	TBHV			-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10					



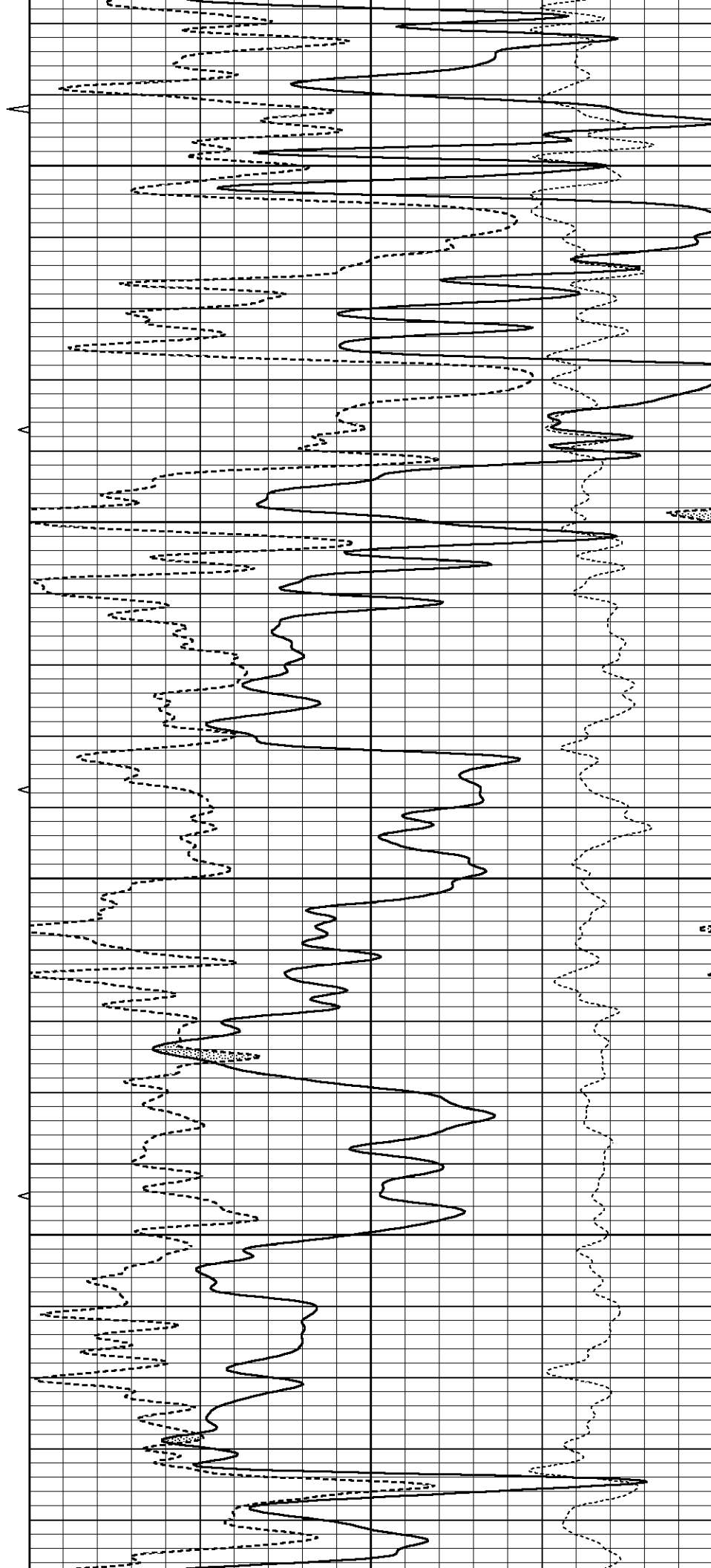


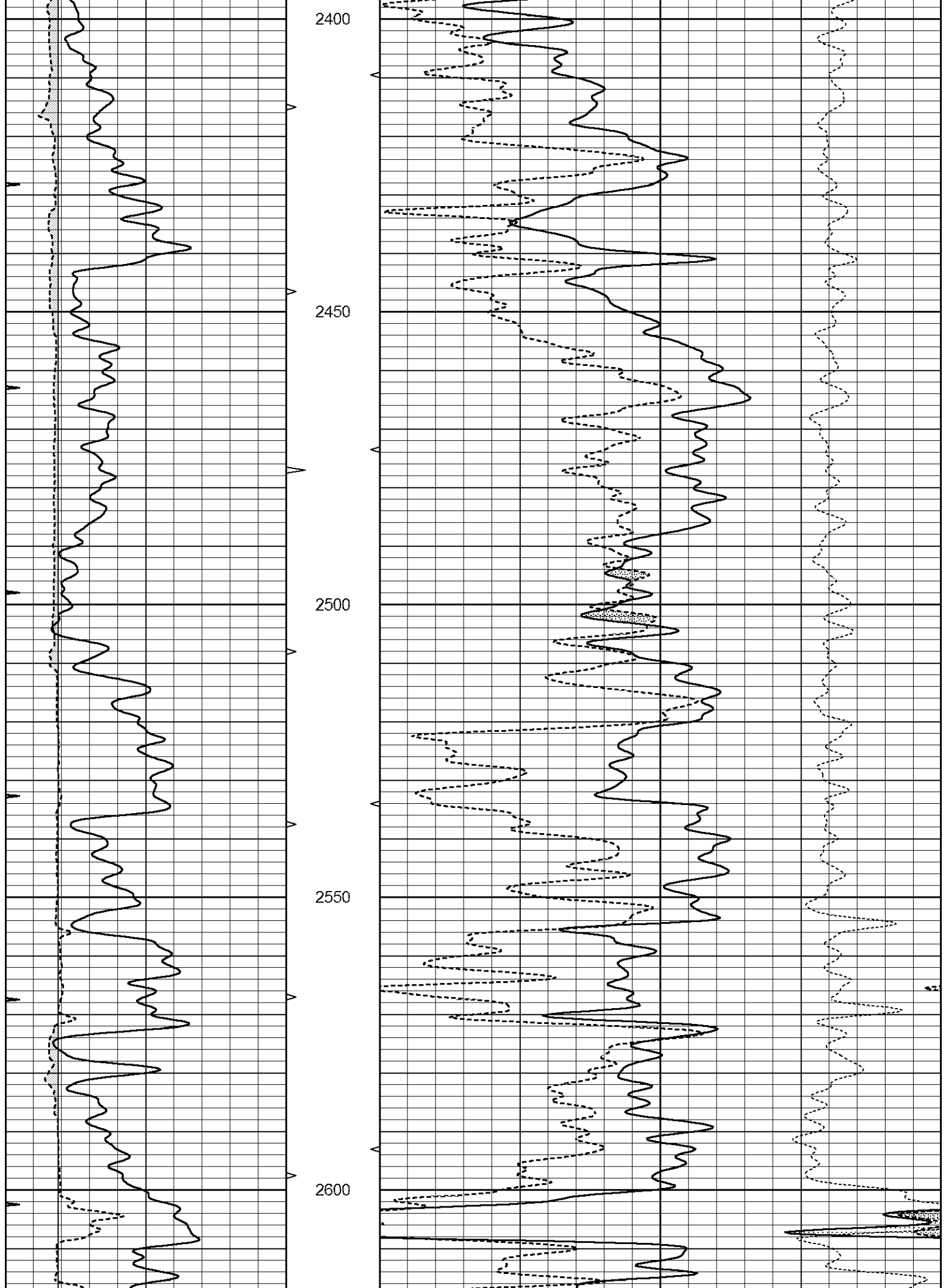
2200

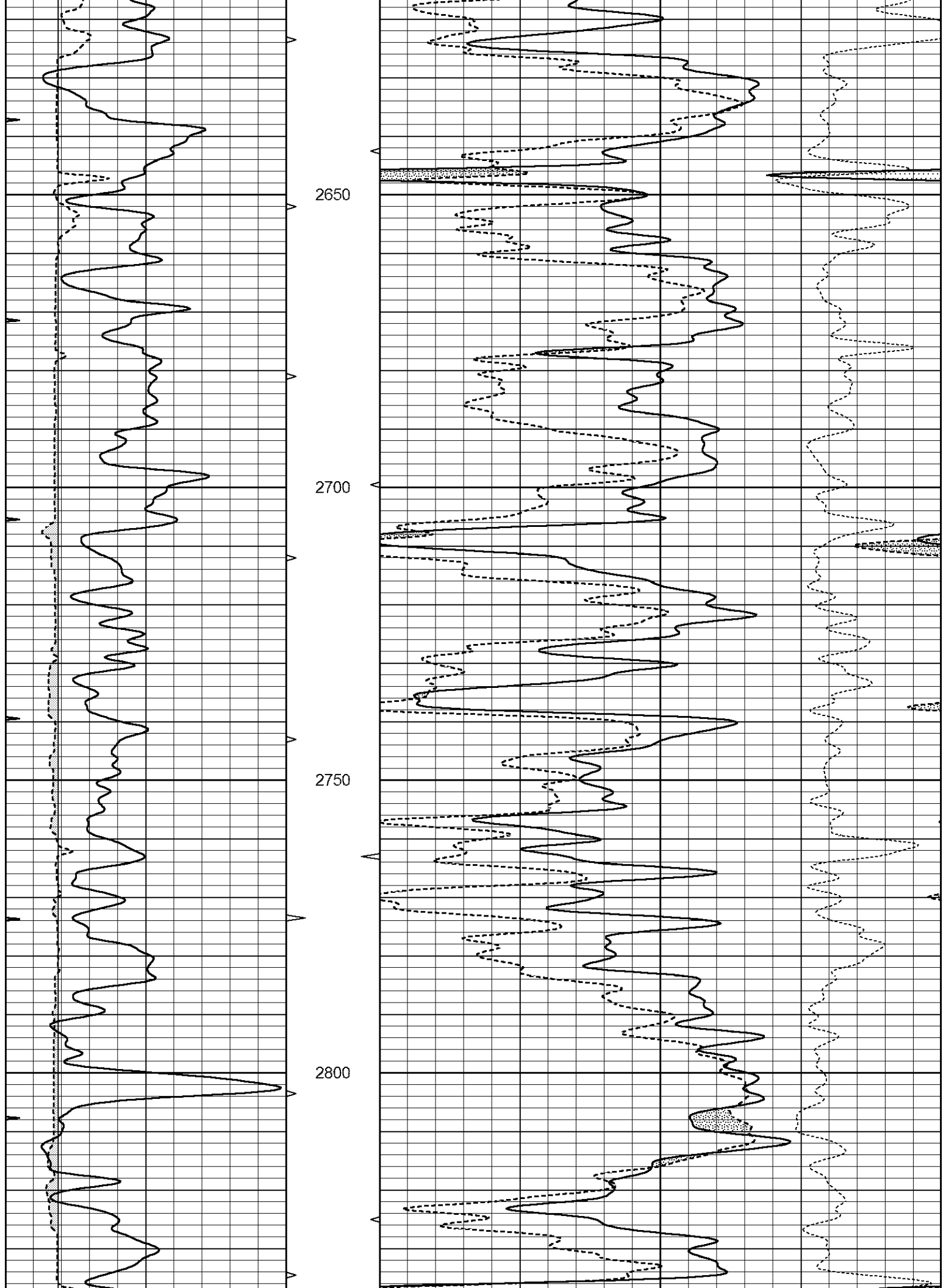
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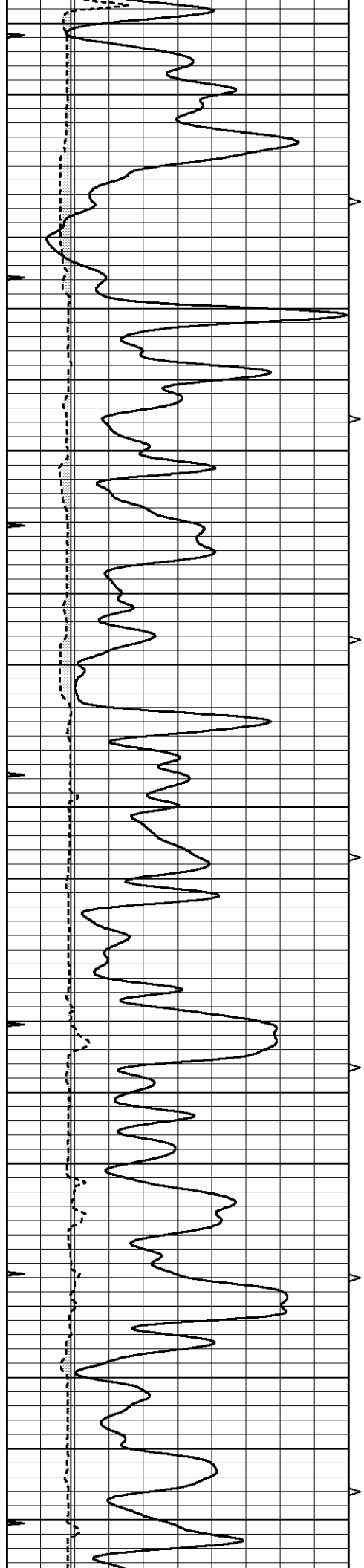
2300

2350









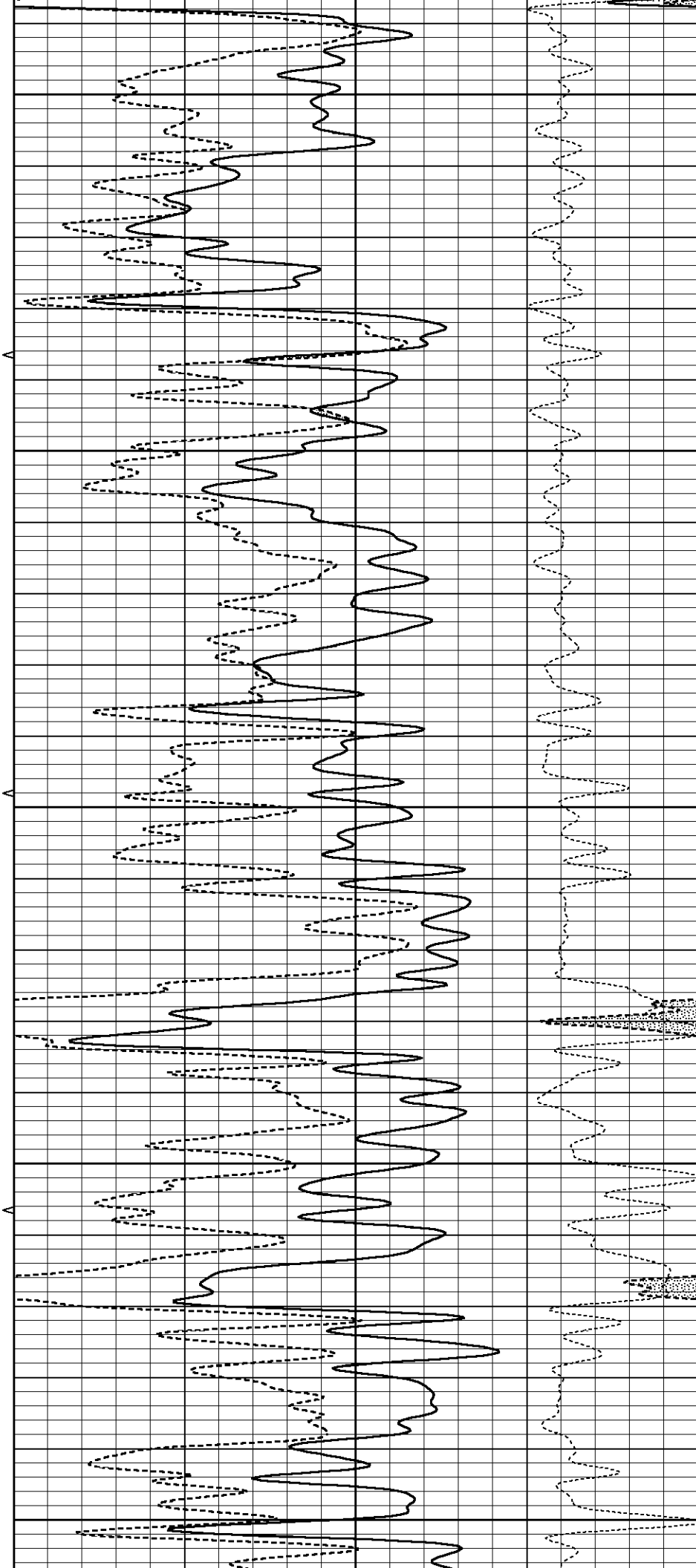
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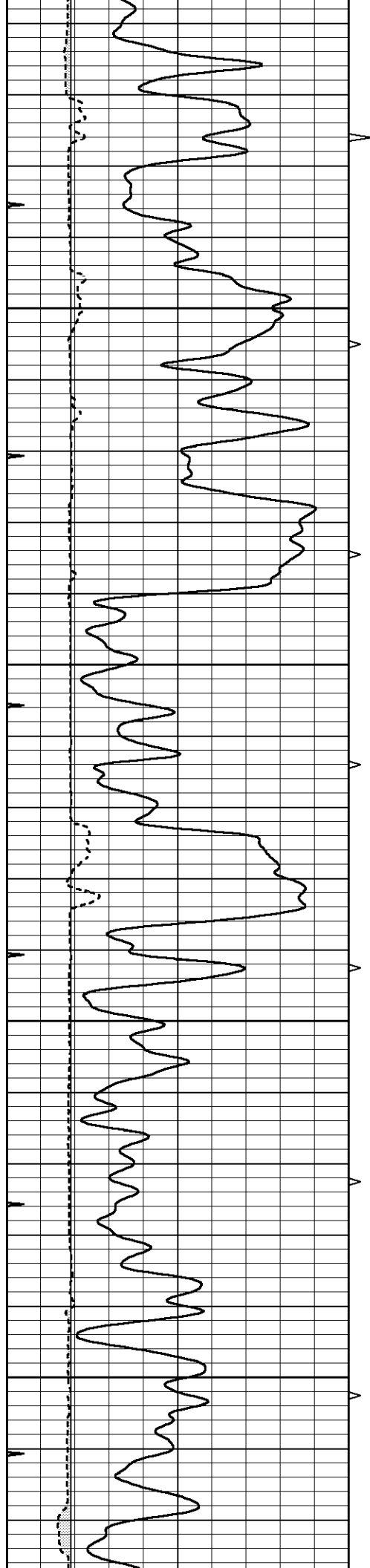
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2950

3000

3050



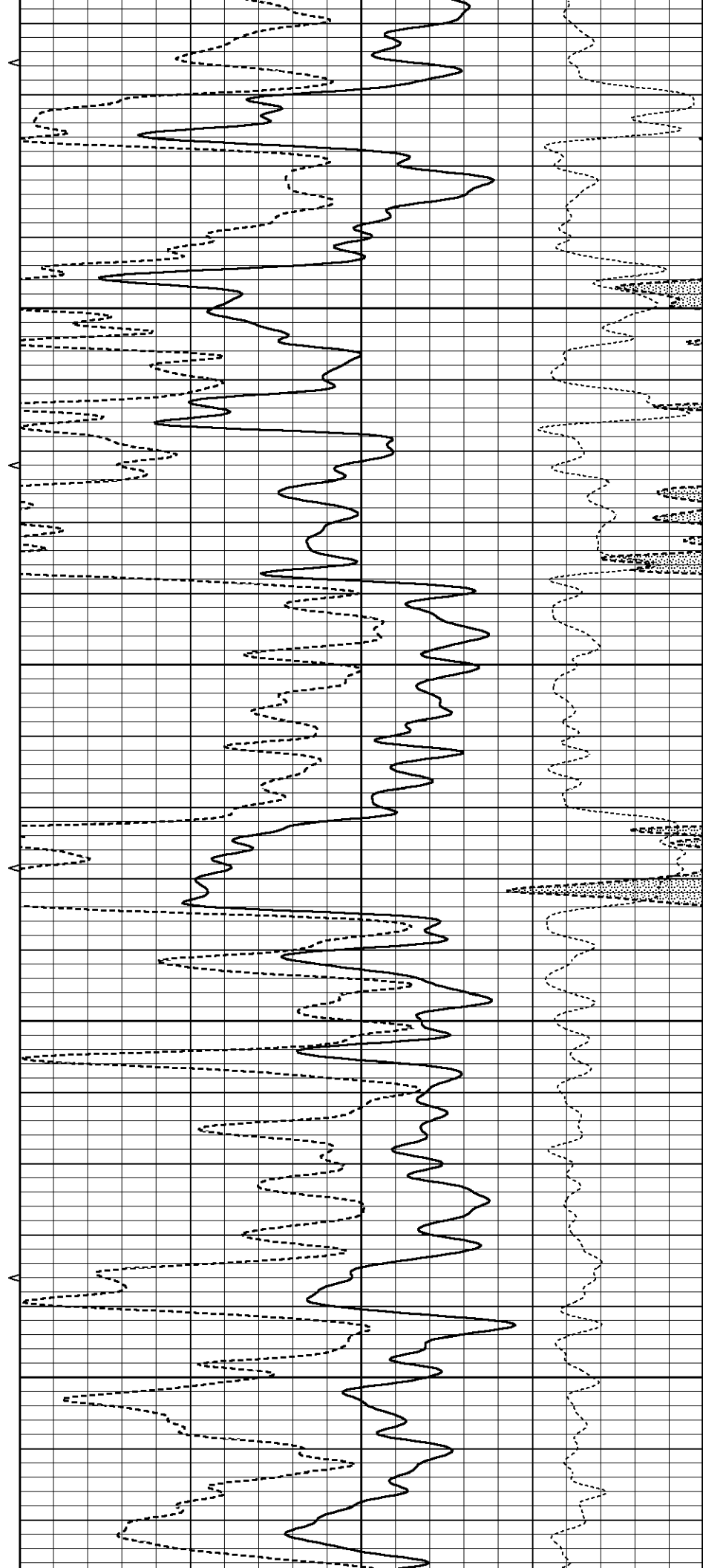


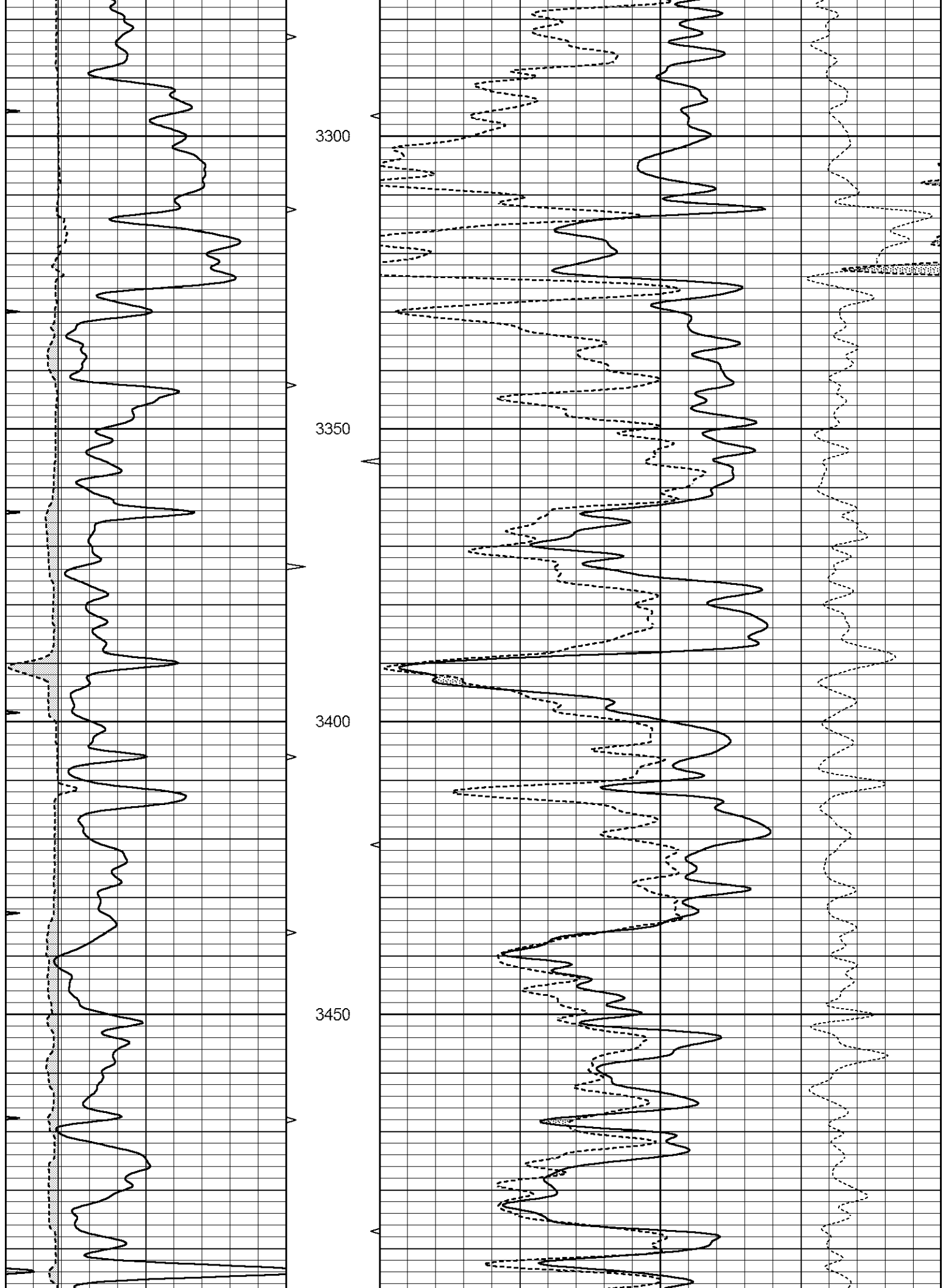
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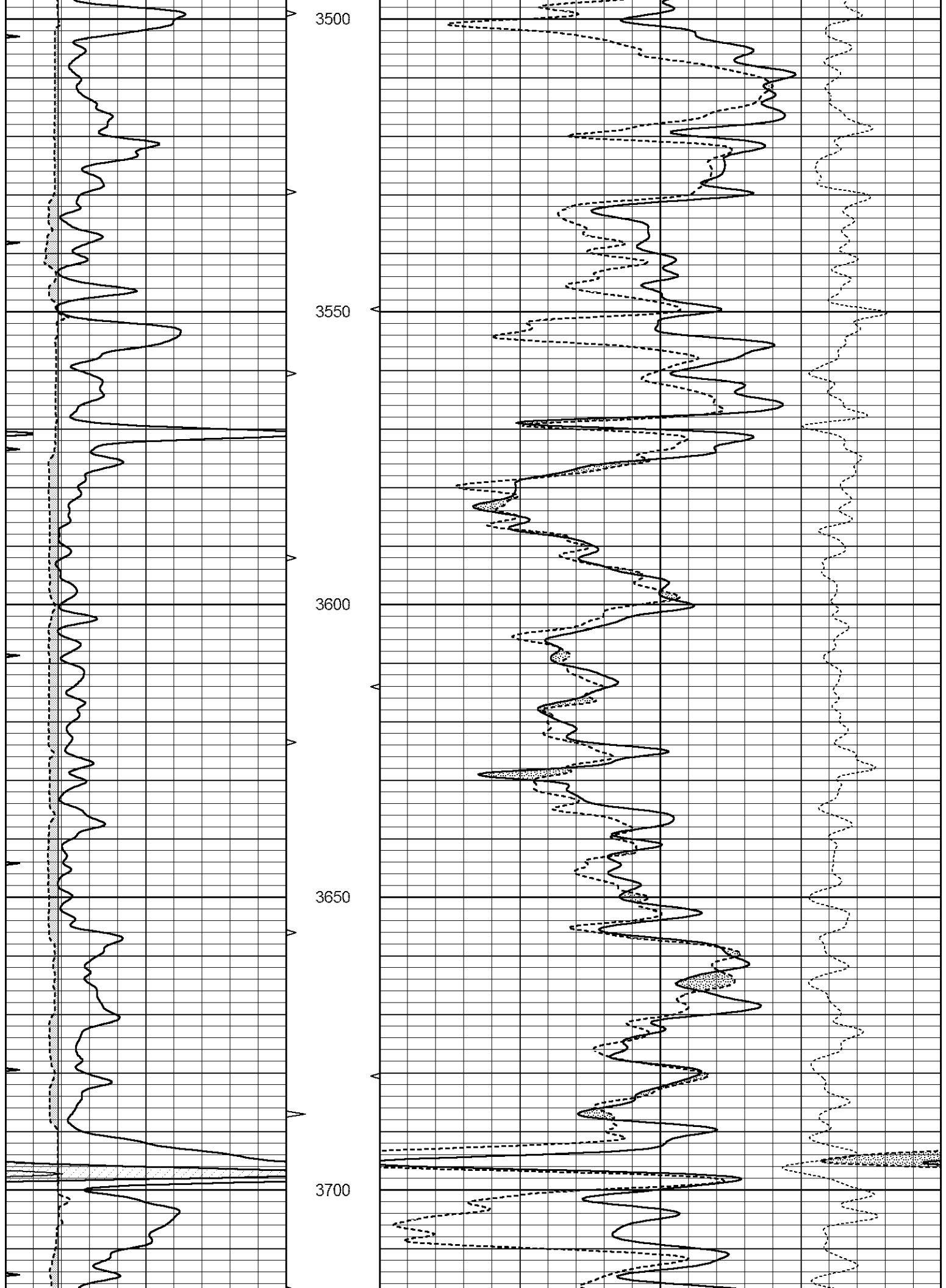
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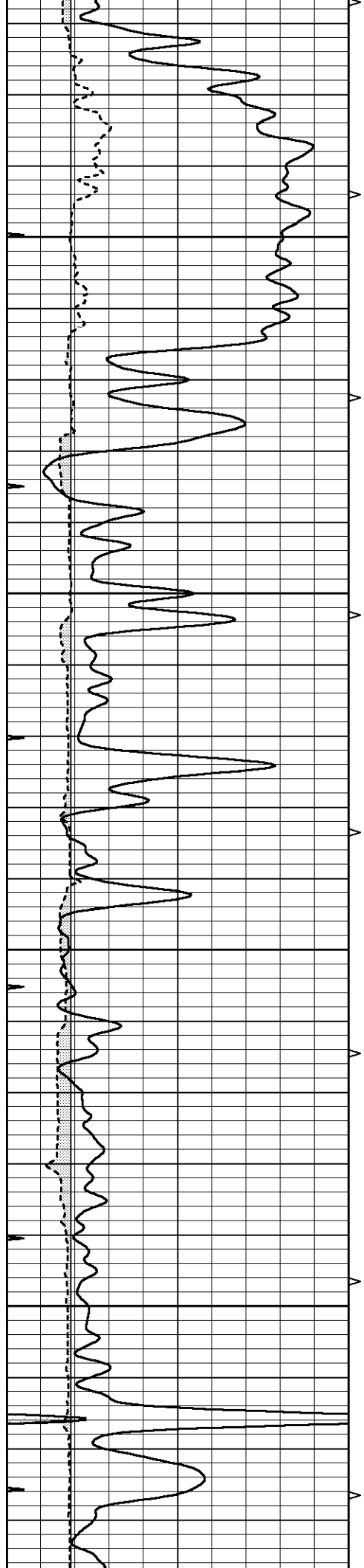
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3250







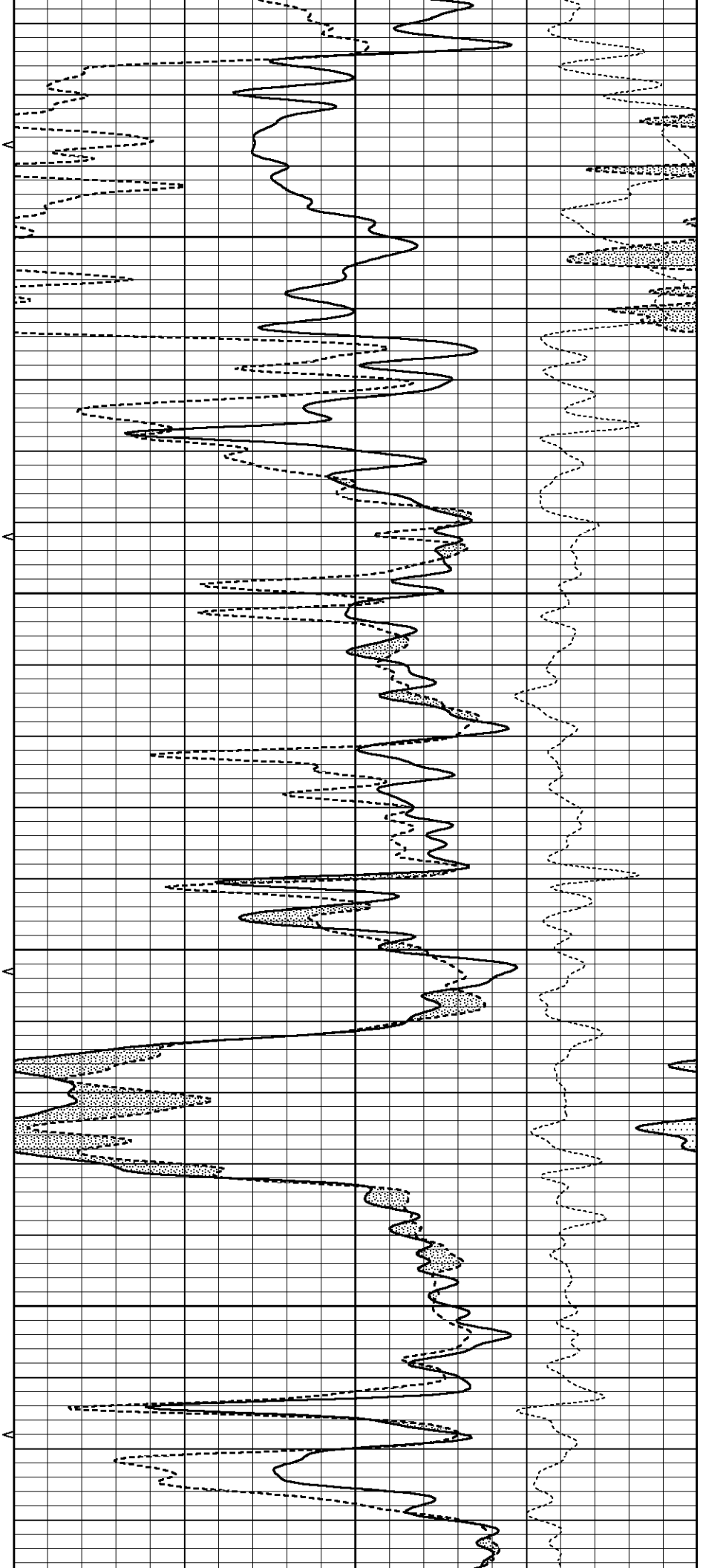


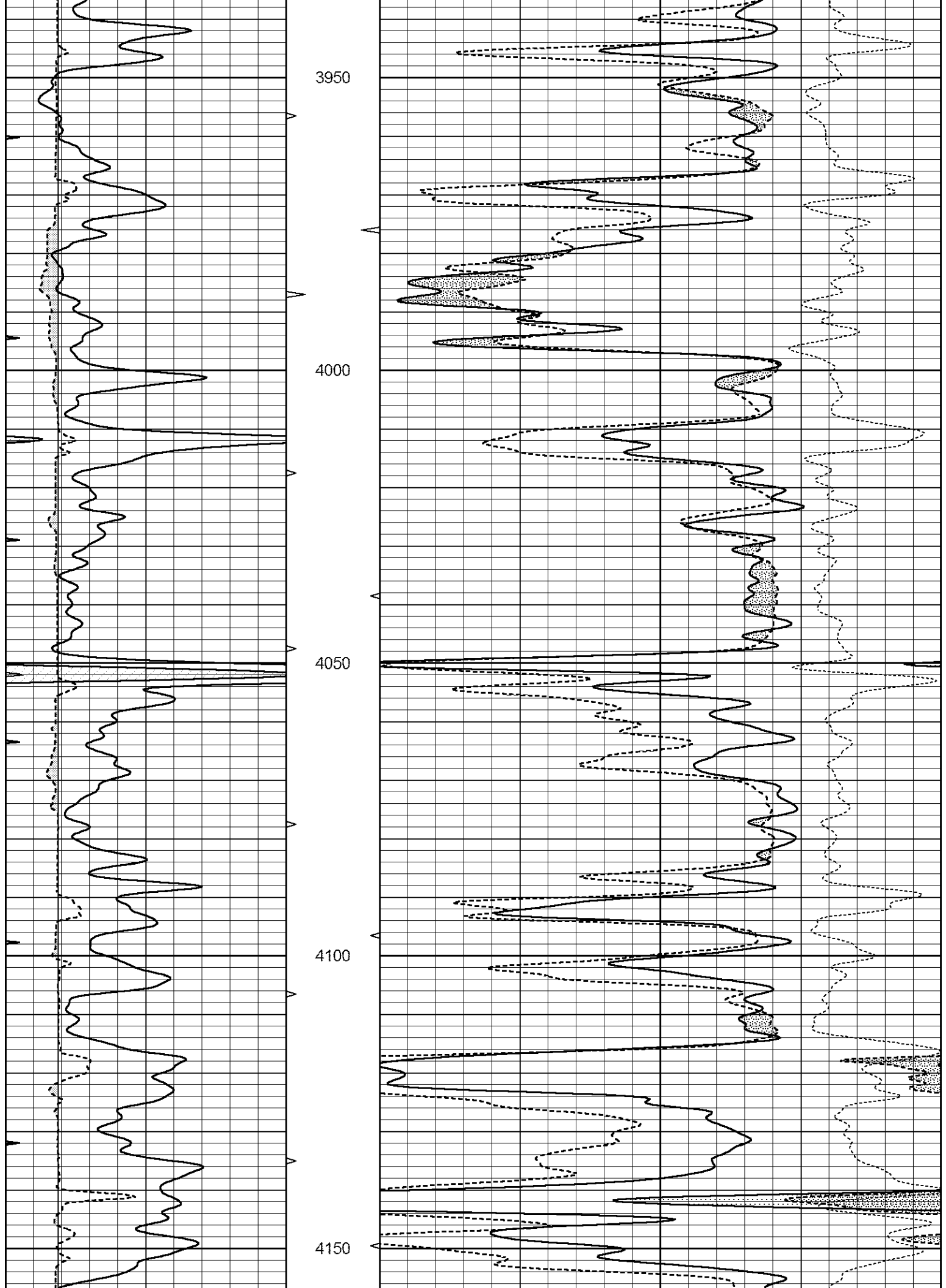
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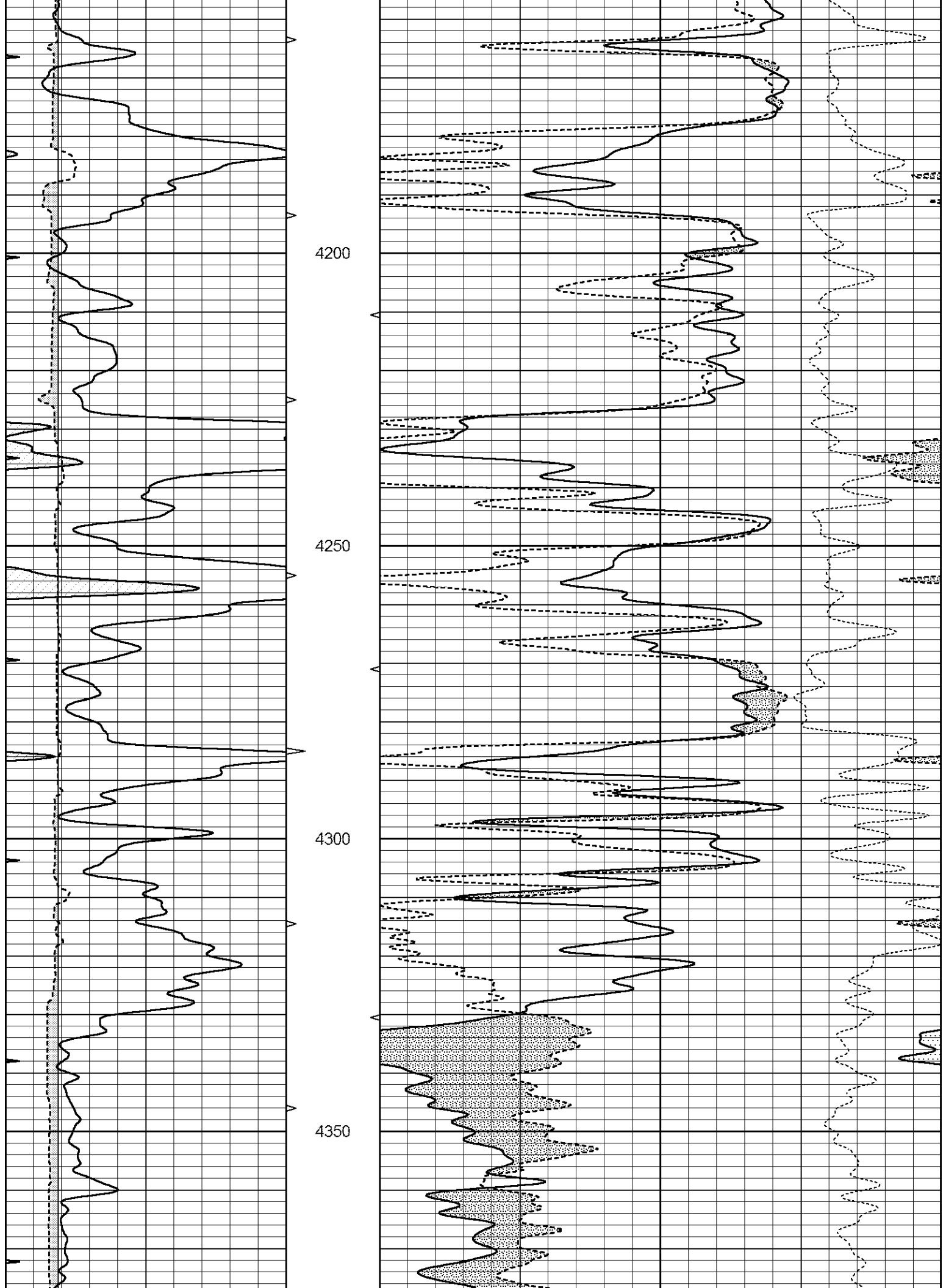
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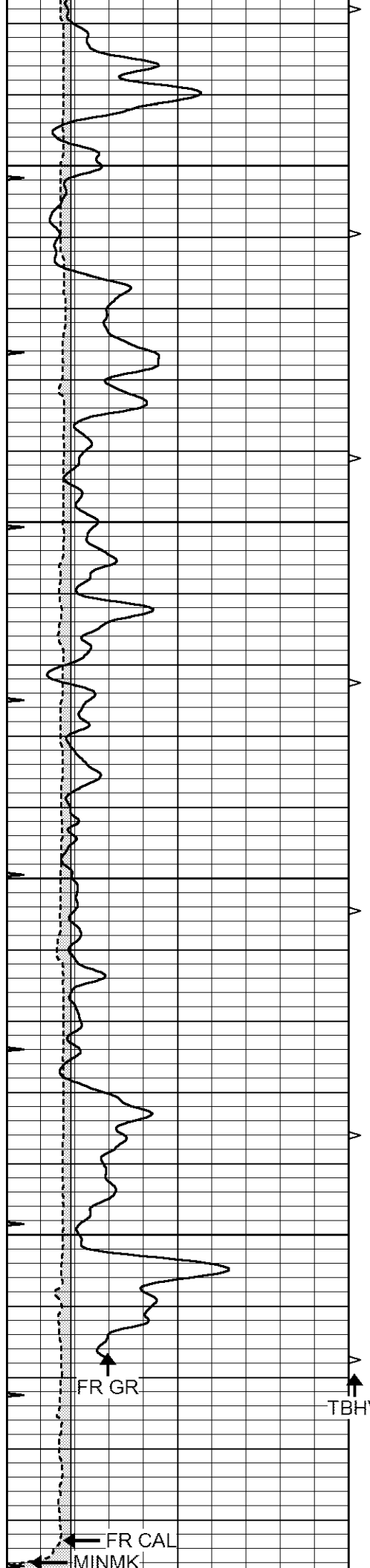
3850

3900









4400

4450

4500

5.5" ABHV

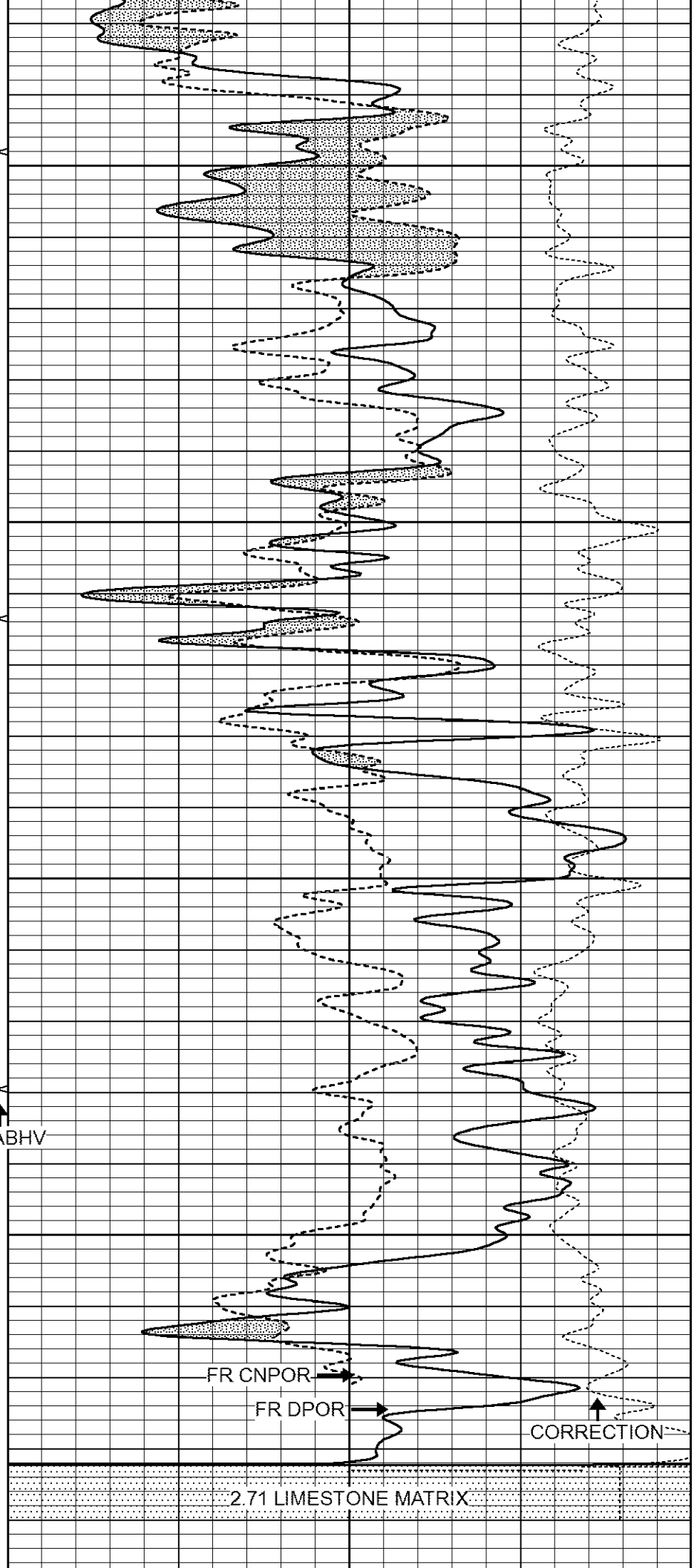
4550

FR GR

TBHV

FR CAL

MINMK



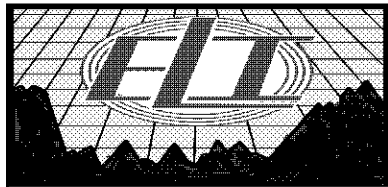
FR CNPOR

FR DPOR

CORRECTION

2.71 LIMESTONE MATRIX

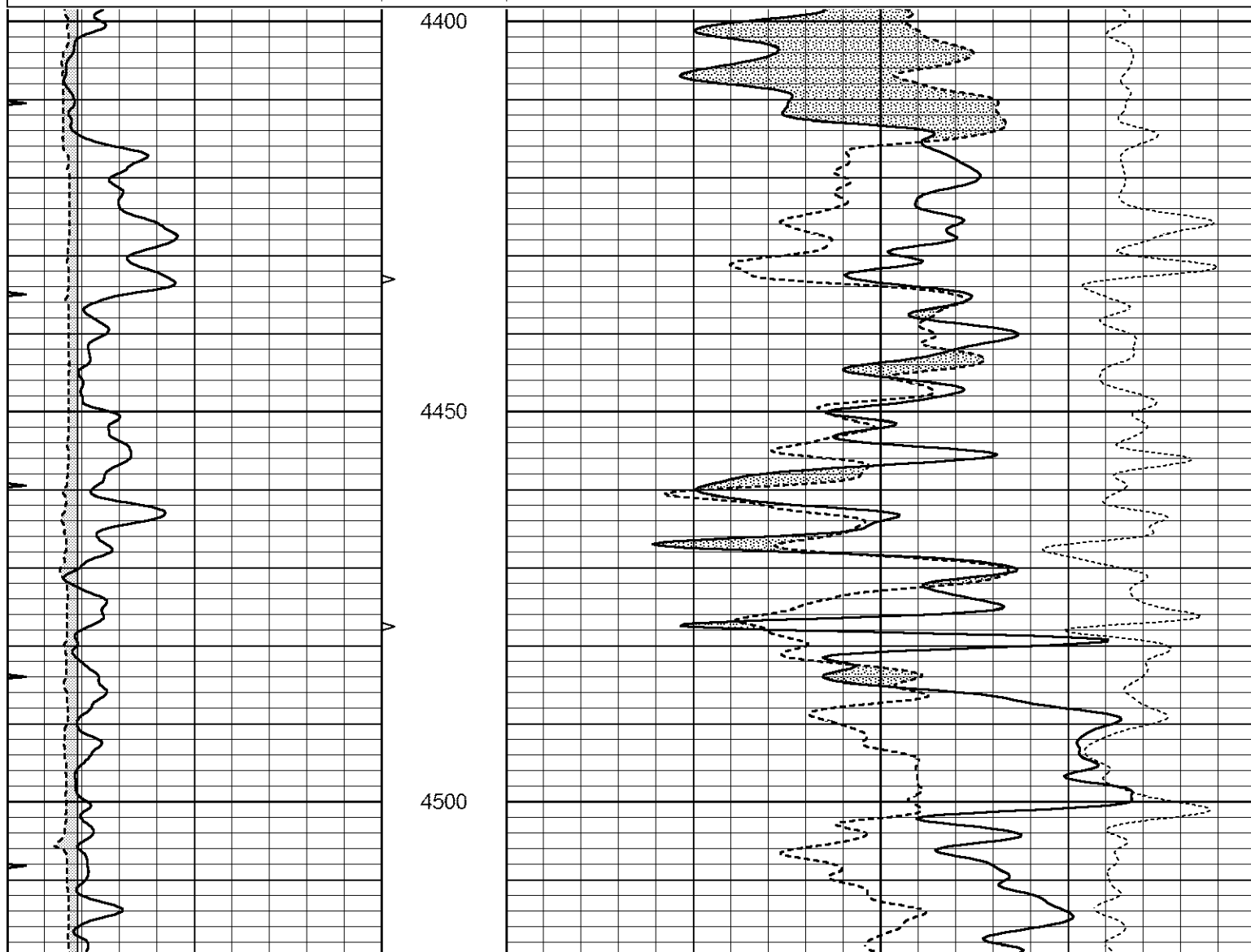
			4600 LTD 4602														
0	GAMMA RAY (GAPI)		150	ABHV	30	COMPENSATED DENSITY (pu)										-10	
6	CALIPER (in)		16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)										-10
0	MINMK		20	TBHV											-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10													

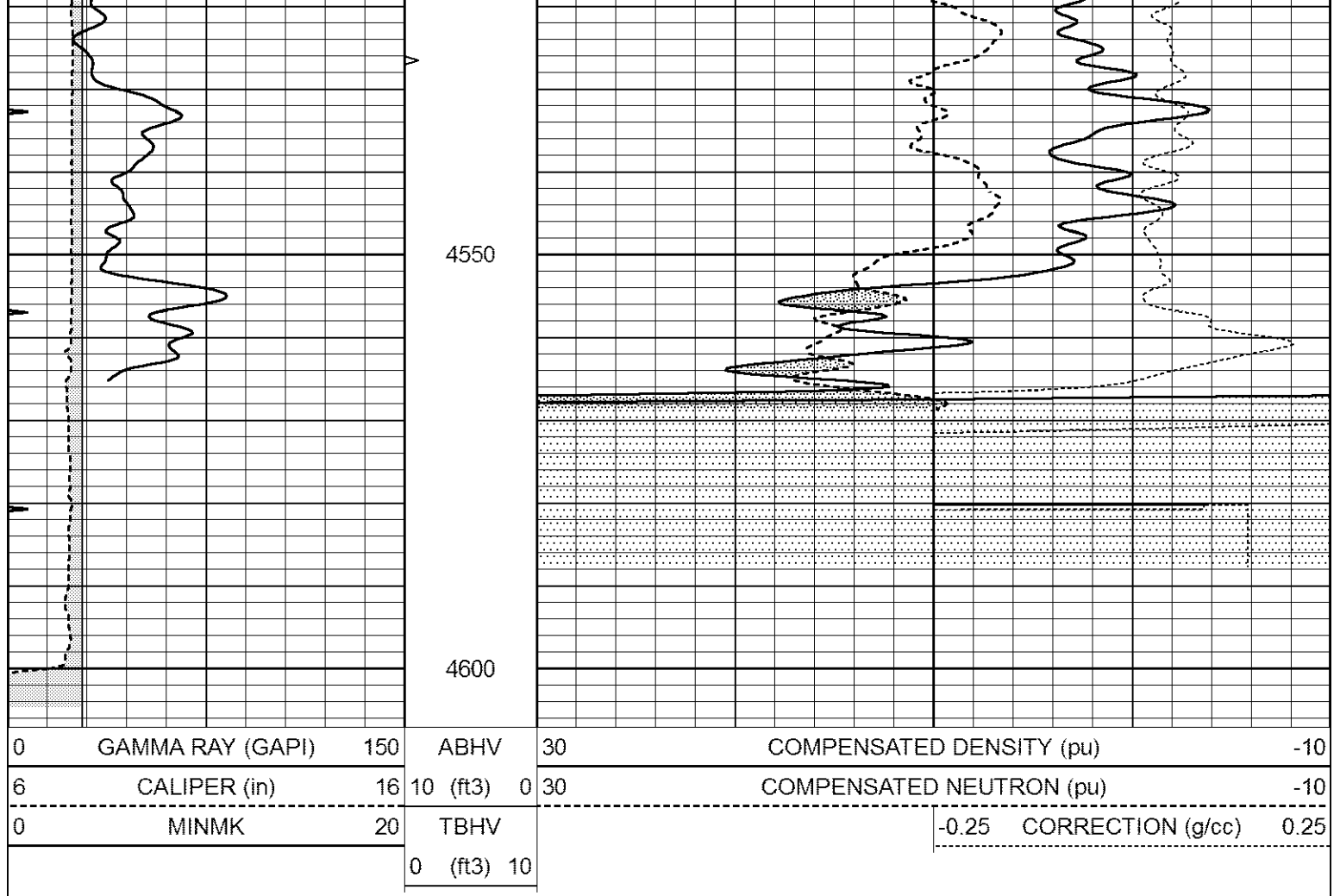


REPEAT SECTION

Database File 6549ddn.db
 Dataset Pathname pass3.2R
 Presentation Format den_neu
 Dataset Creation Thu Jun 30 02:49:08 2022
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10	
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)			-10	
0	MINMK	20	TBHV				-0.25	CORRECTION (g/cc)	0.25
			0 (ft3) 10						





Calibration Report

Database File 6549ddn.db
 Dataset Pathname pass4.2P
 Dataset Creation Thu Jun 30 03:34:12 2022

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Sun May 15 19:17:36 2022
 Downhole Cal Performed: Tue Feb 19 11:44:24 2019
 After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	650.000	-3.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration

Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
U3		7.503	V		1500.000	Ohm m		

ELC	7.503	V	1500.000	Ohm-Fm
	0.001	V	20.000	Ohm-m
	-7.481	V	3745.000	mmho-m

After Survey Verification								
Readings				Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report Serial: 140704 Model: V4_10P Source Number: 74GBq-19
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Master Calibration			Performed: Mon May 23 14:22:47 2022		
	Background	Aluminum	Magnesium		
Window 1	511.07	5437.36	23664.68	cps	
Window 2	40.76	1220.39	5745.34	cps	
Window 4	223.73	1233.64	5301.27	cps	
Window 5	531.57	7878.13	15405.81	cps	
Window 6	48.52	1245.17	2497.97	cps	
Window 8	246.02	2578.14	4974.07	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8413	SS Alpha:	: -0.8034	LS CPE:	: 1.1579
LS Beta:	: 124864.8423	SS Beta:	: 19537.1506	SS CPE:	: 1.6371

Before Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969
Window 1	0.00	cps	
Window 2	0.00	cps	
Window 4	0.00	cps	
Window 5	0.00	cps	
Window 6	0.00	cps	
Window 8	0.00	cps	

After Survey Background Counts Verification			Performed: Wed Dec 31 18:00:00 1969
Window 1	0.00	cps	
Window 2	0.00	cps	
Window 4	0.00	cps	
Window 5	0.00	cps	
Window 6	0.00	cps	
Window 8	0.00	cps	

Lithodensity Caliper Calibration				Performed: Mon May 23 14:22:47 2022	
Results	Readings	References (in)			
Low	High	Low	High	Gain	Offset
8210.8	12139.3	7.0	14.0	0.0	-7.3

Before Survey Caliper Verification	Performed:
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	Reference	Reading
Caliper (in)		
After Survey Caliper Verification		Performed:
	Reference	Reading
Caliper (in)		
Compensated Neutron Calibration Report		
	Serial Number:	080621PMC
	Tool Model:	NABORS
PRE-SURVEY VERIFICATION		
Detector	Readings	Measured Target
Short Space	cps	
Long Space	cps	pu pu
POST-SURVEY VERIFICATION		
Detector	Readings	Measured Target
Short Space	cps	
Long Space	cps	pu pu
Gamma Ray Calibration Report		
Serial Number:	7	
Tool Model:	Probe1	
Performed:	Thu May 26 08:56:46 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps