

COMPENSATED DENSITY/NEUTRON PE LOG

Company	GRAND MESA OPERATING COMPANY	Company	GRAND MESA OPERATING COMPANY
Well	BIRKET TRUST #1-15	Well	BIRKET TRUST #1-15
Field	UNNAMED	Field	UNNAMED
County	RENO	County	RENO
State	KANSAS	State	KANSAS
Location:	API # : 15-155-21790-0000 1270' FNL & 2310' FEL S2 - SW - NW - NE	Other Services DIL/MEL SONIC	
Permanent Datum	SEC 15 TWP 24S RGE 8W	Elevation	
Log Measured From	GROUND LEVEL Elevation 1640 KELLY BUSHING 5' A.G.L	K.B. 1645 D.F. 1643 G.L. 1640	
Drilling Measured From	KELLY BUSHING		
Date	8/17/22		
Run Number	ONE		
Depth Driller	4210		
Depth Logger	4211		
Bottom Logged Interval	4187		
Top Log Interval	130		
Casing Driller	8 5/8" @ 134		
Casing Logger	134		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6000 PPM	
Density / Viscosity	9.1/66		
pH / Fluid Loss	10.0/9.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.950 @ 75F		
Rmt @ Meas. Temp	.713 @ 75F		
Rmc @ Meas. Temp	1.14 @ 75F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.604 @ 118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	10:00 A.M.		
Maximum Recorded Temperature	118F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBBEN		
Witnessed By	KEITH REAVIS		

<<< Fold Here >>>

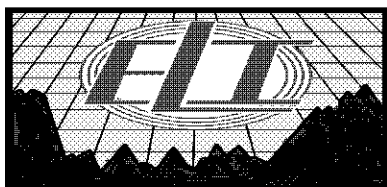
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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:

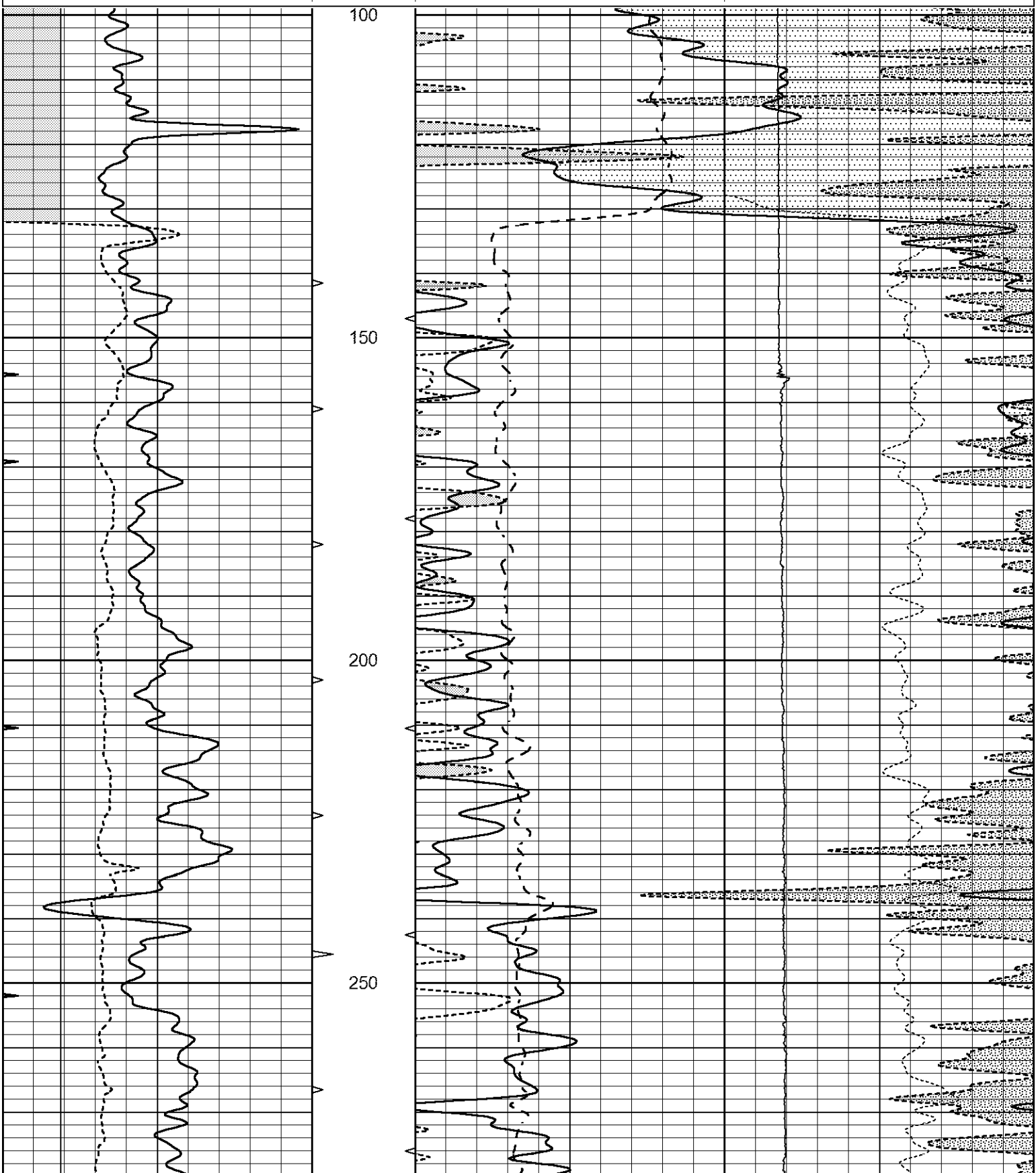
ABBYVILE, KANSAS SOUTH TO TRAIL WEST ROAD, EAST TO SEGO ROAD, 1/4 SOUTH WEST INTO

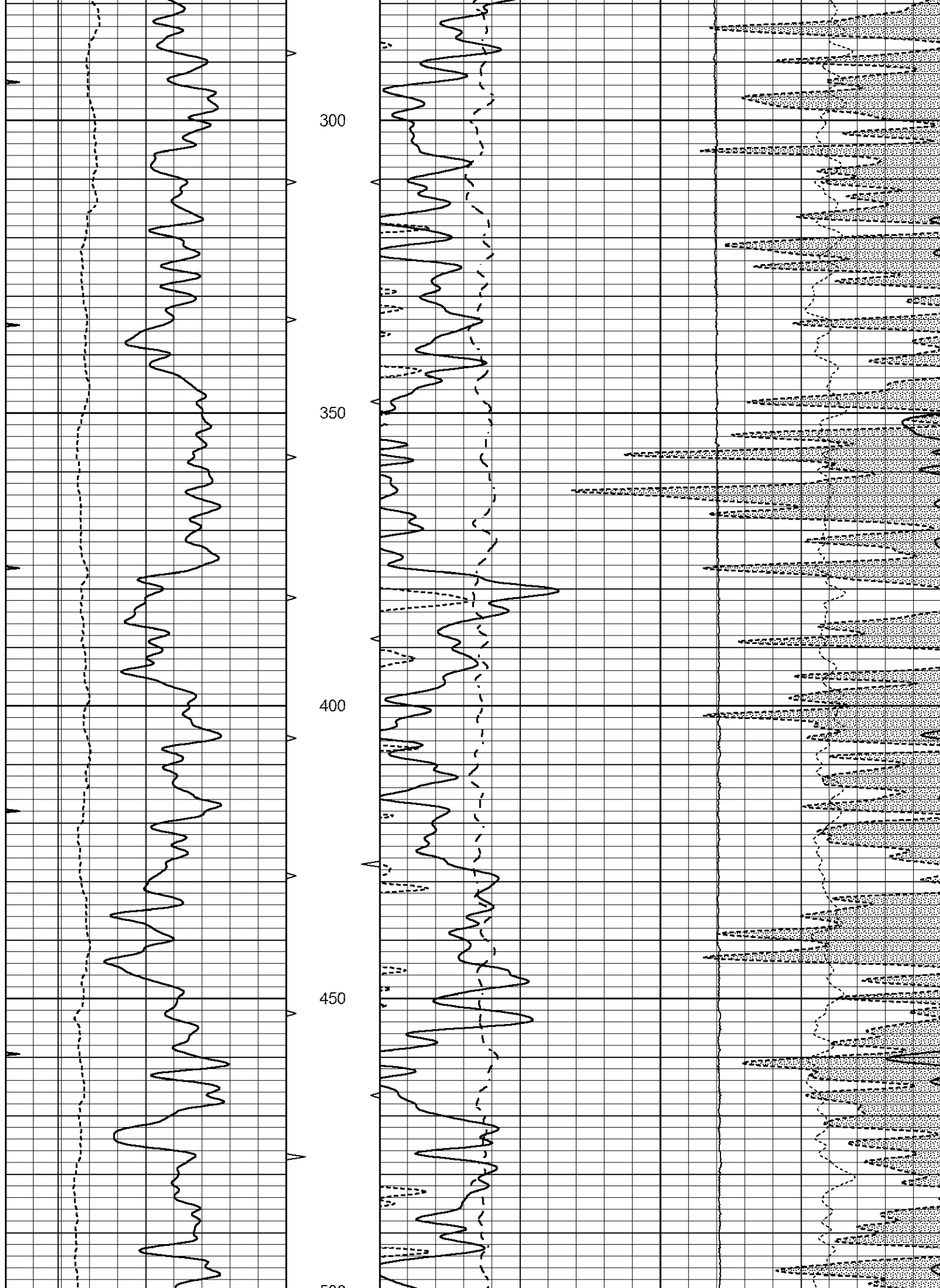


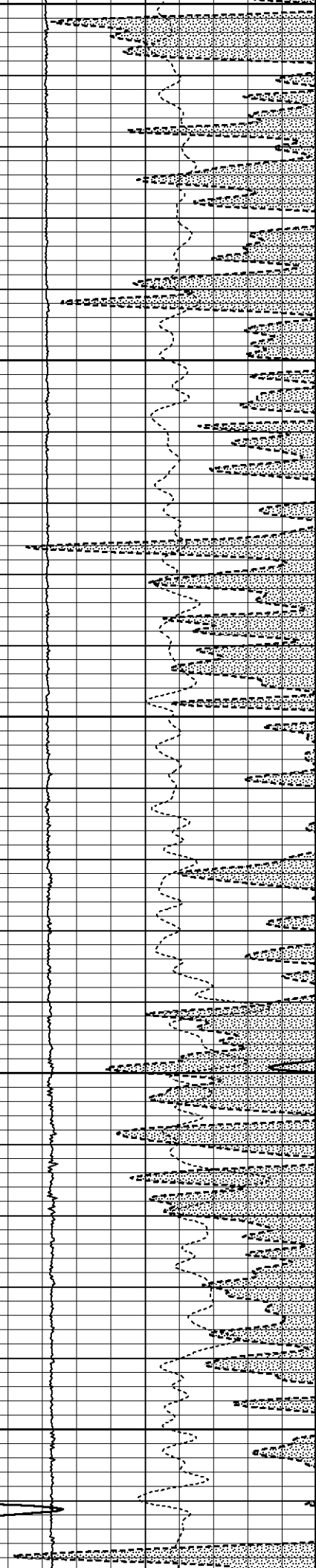
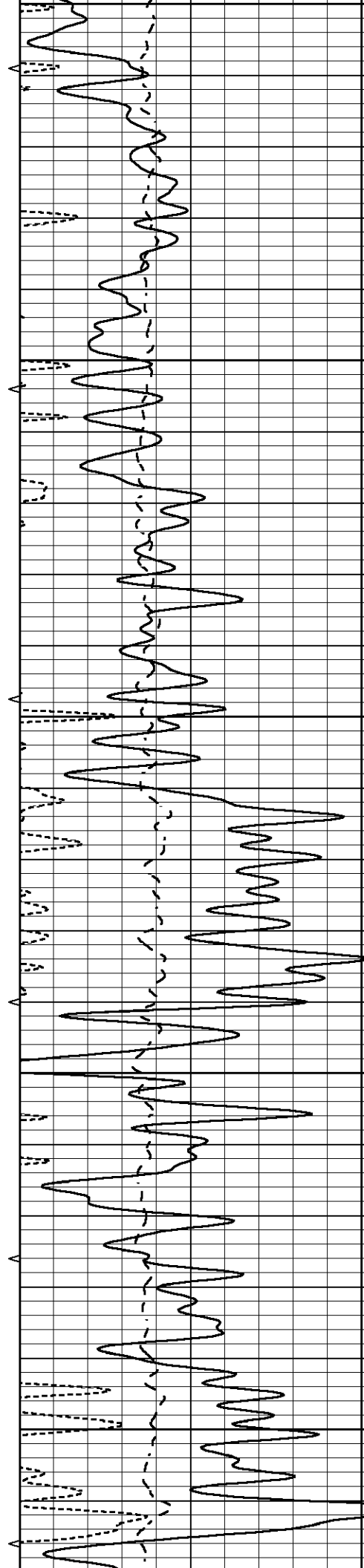
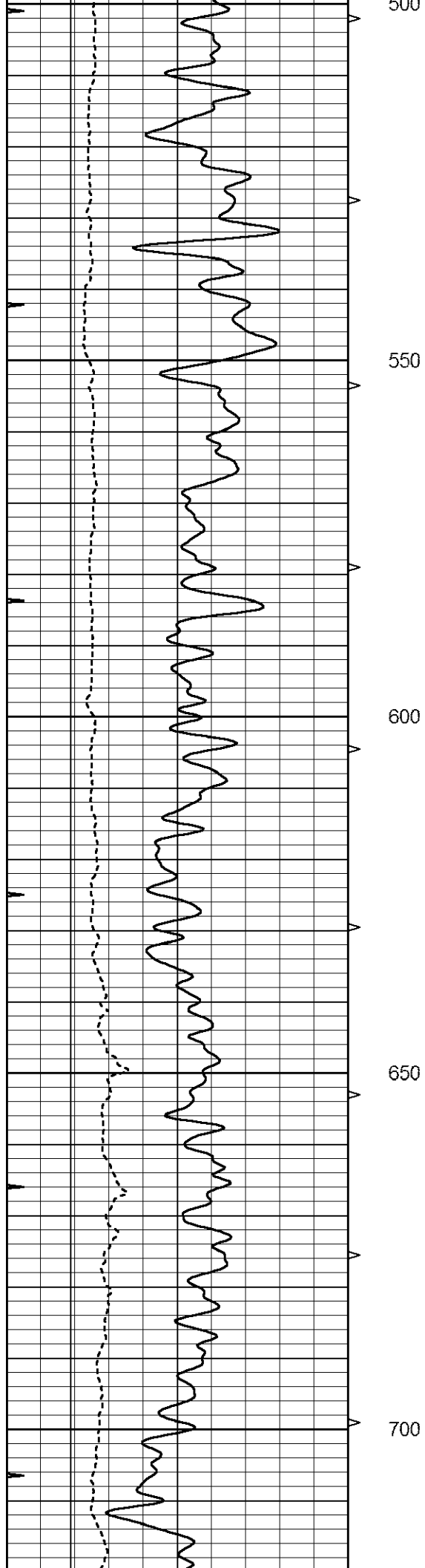
MAIN SECTION

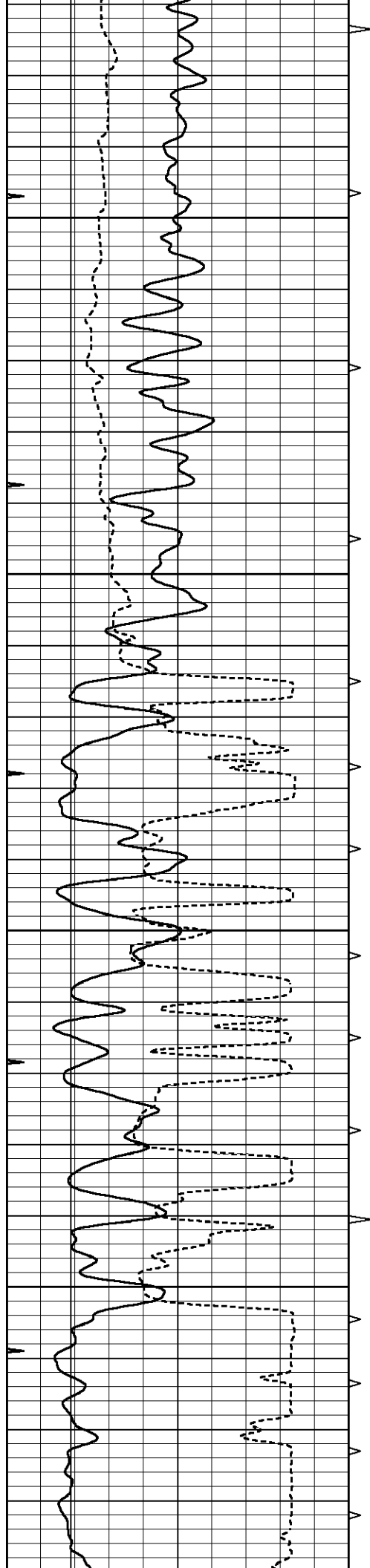
Database File	6772pe.db
Dataset Pathname	pass3M
Presentation Format	_ldt_neu
Dataset Creation	Wed Aug 17 12:44:05 2022
Charted by	Depth in Feet scaled 1:240

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	PE	10	-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10		0	LTEN (lb)		5000







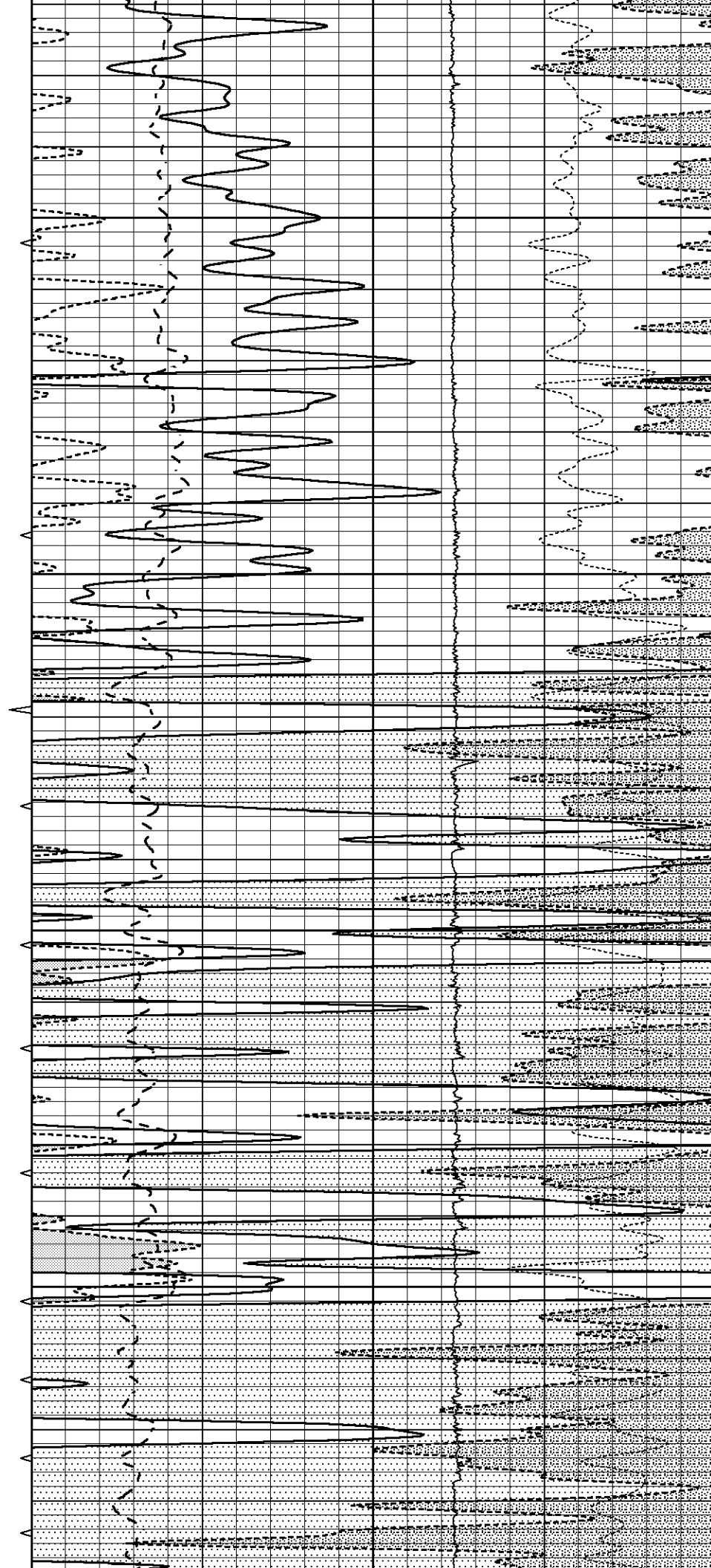


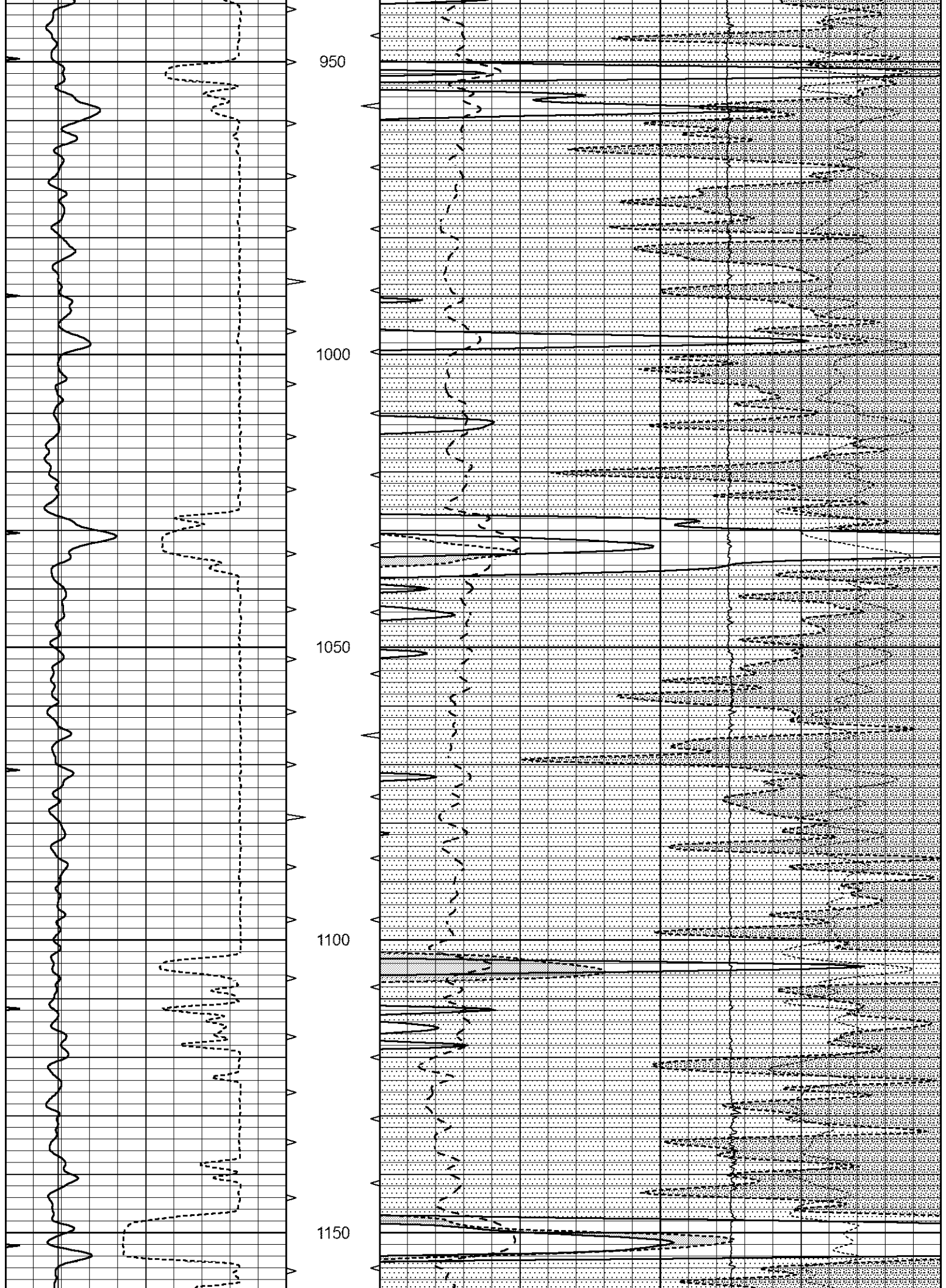
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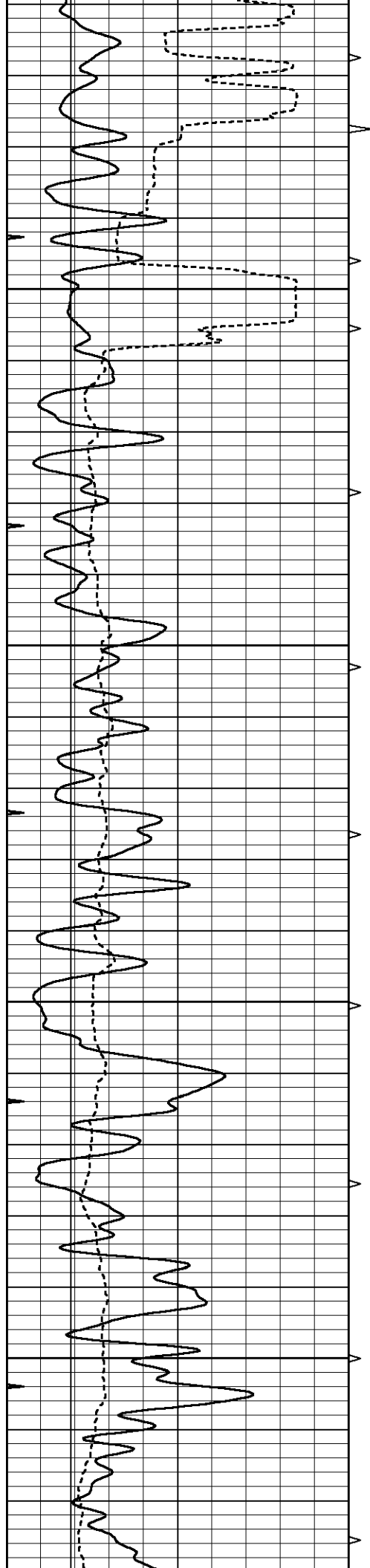
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850

900





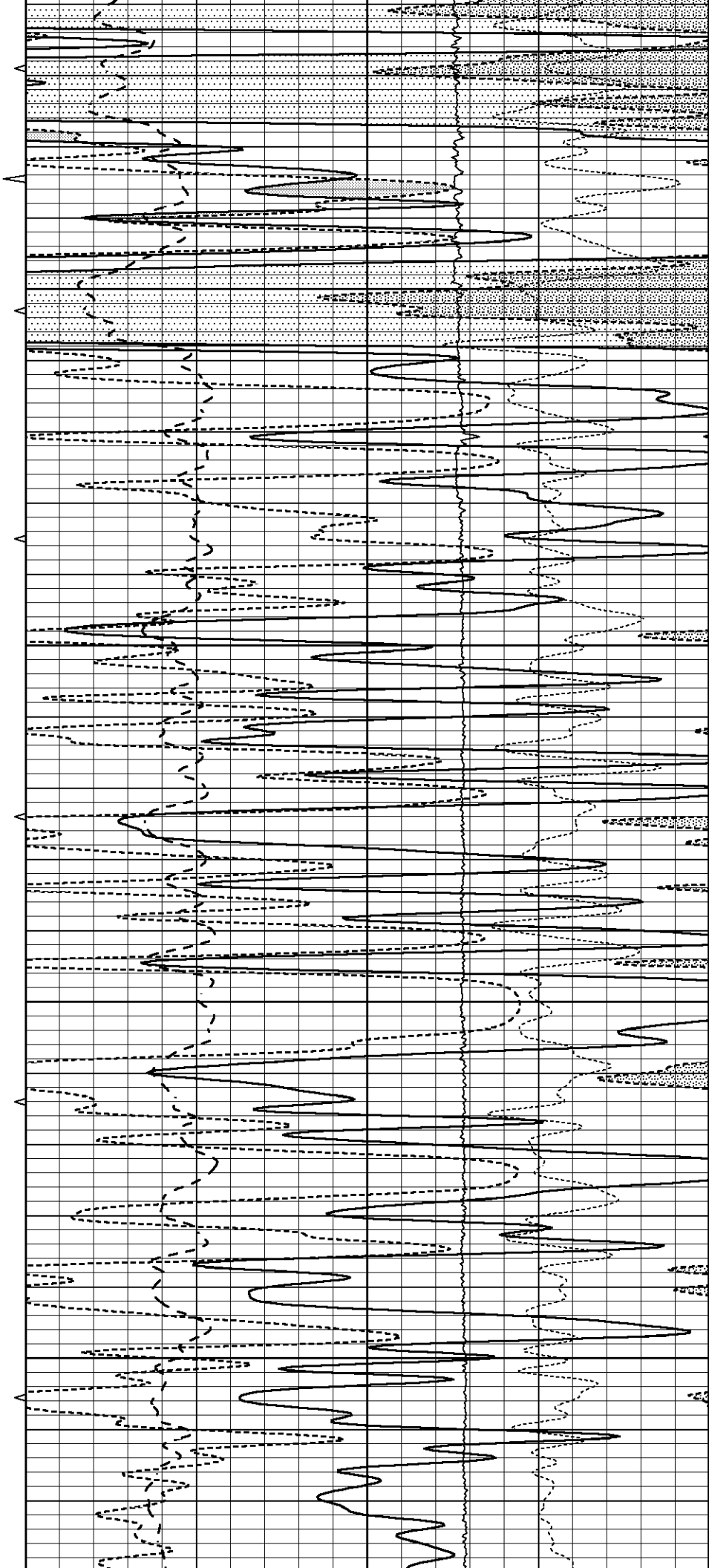


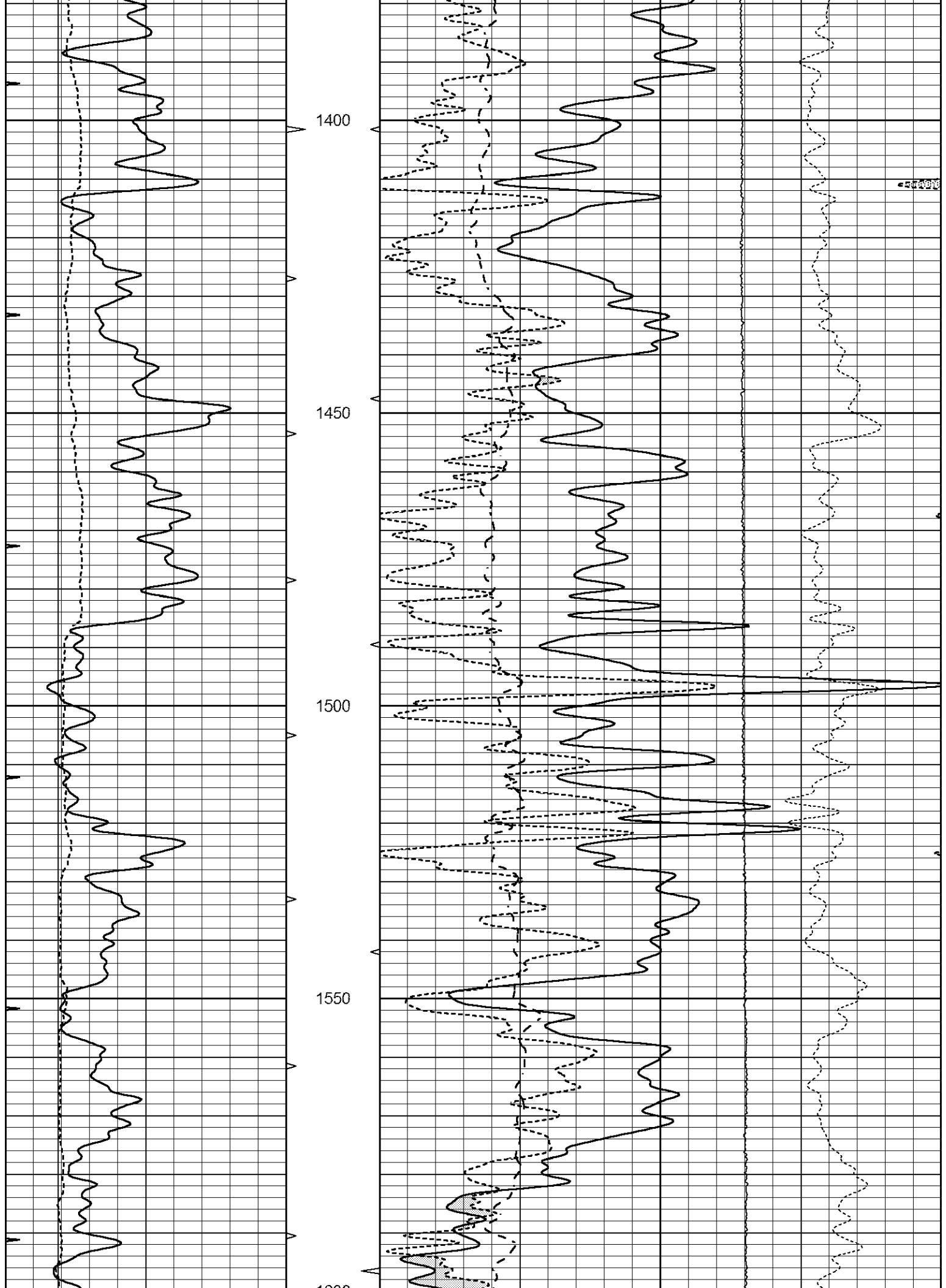
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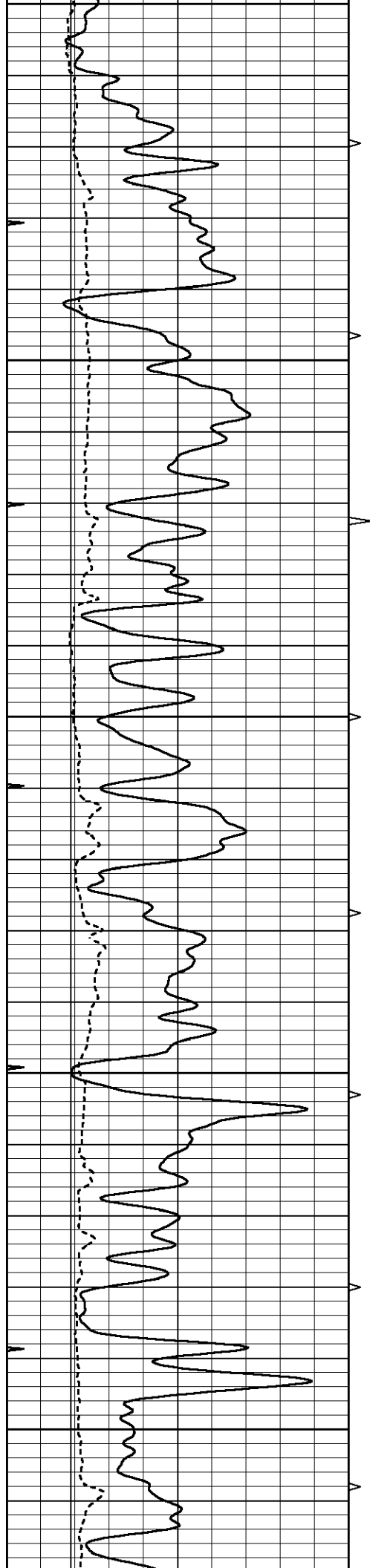
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1300

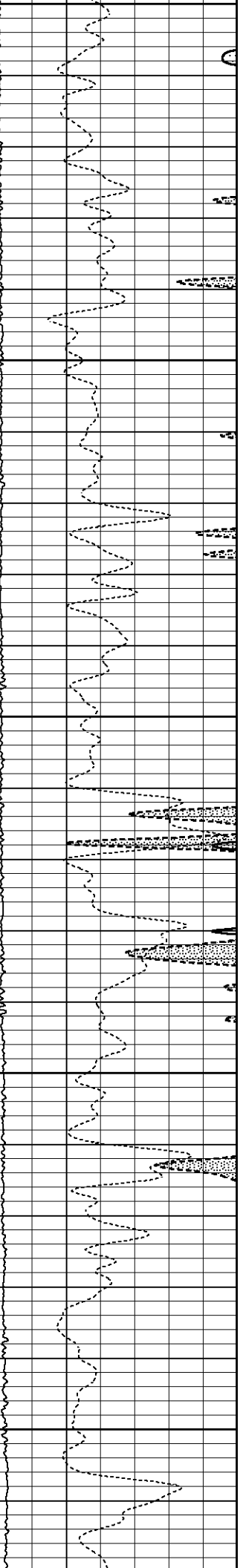
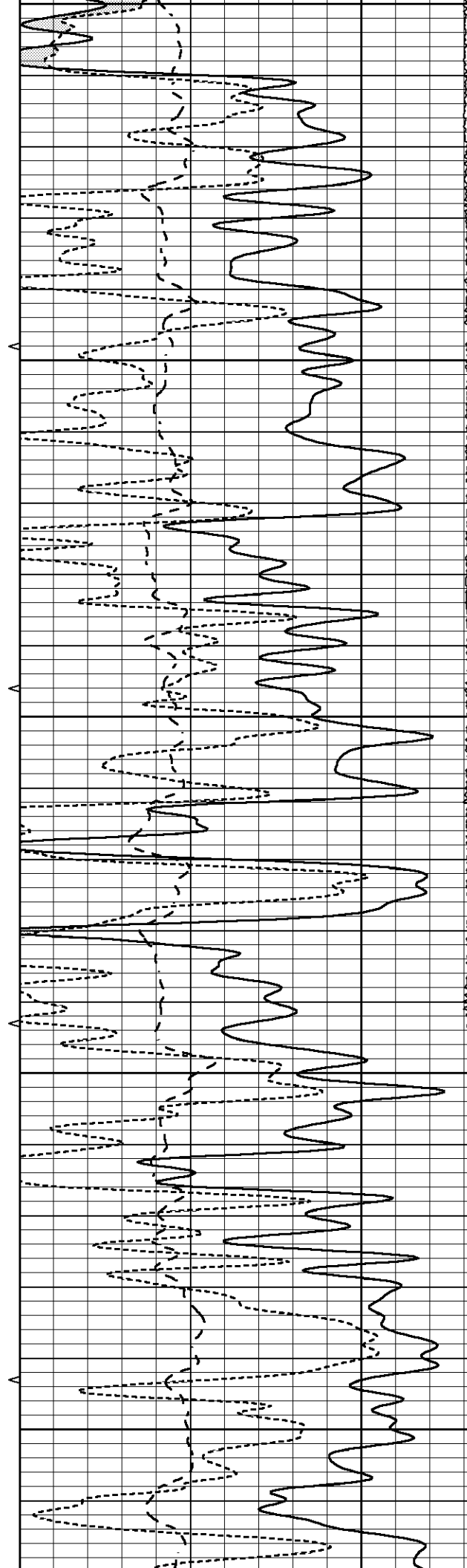
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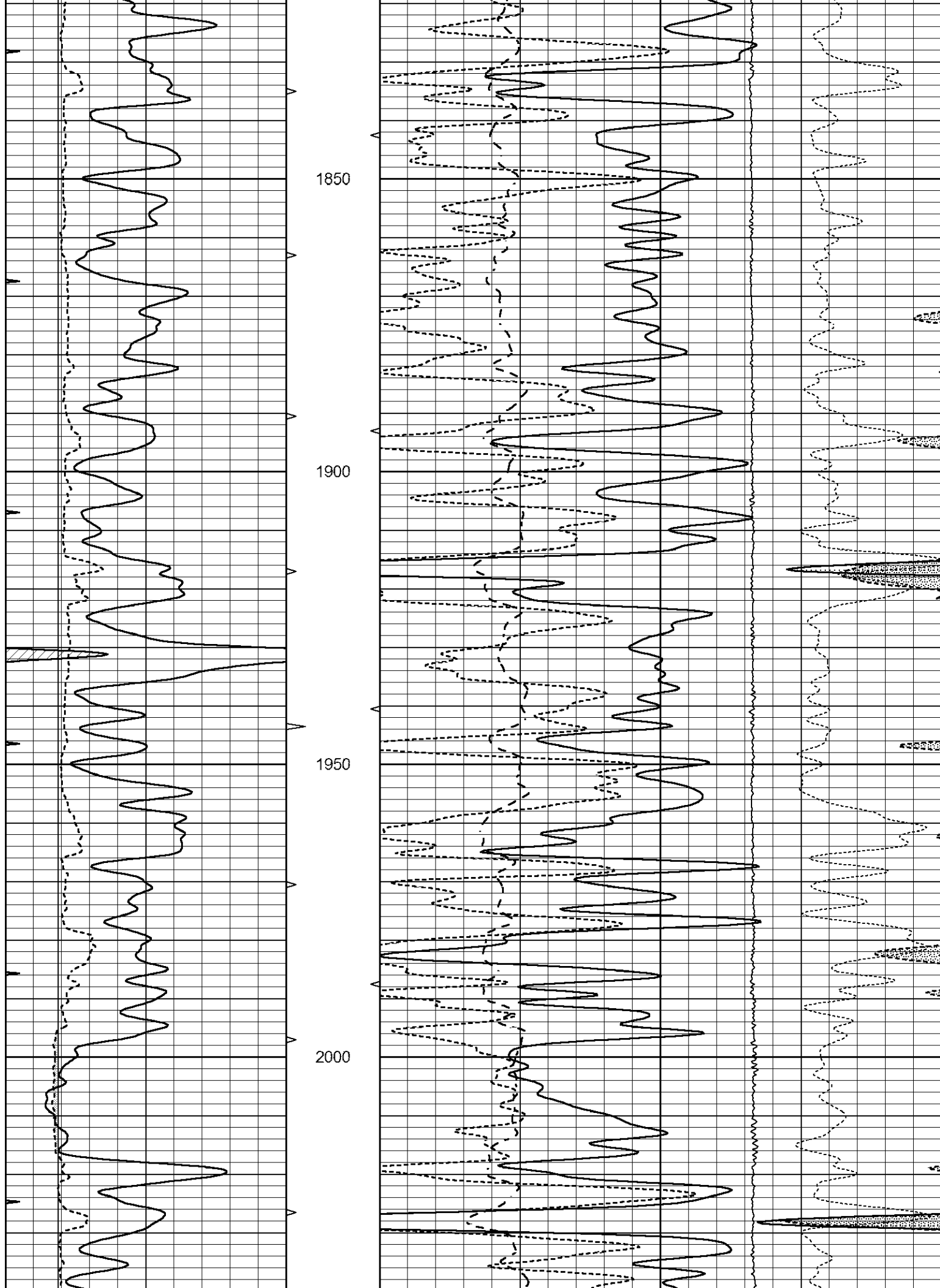


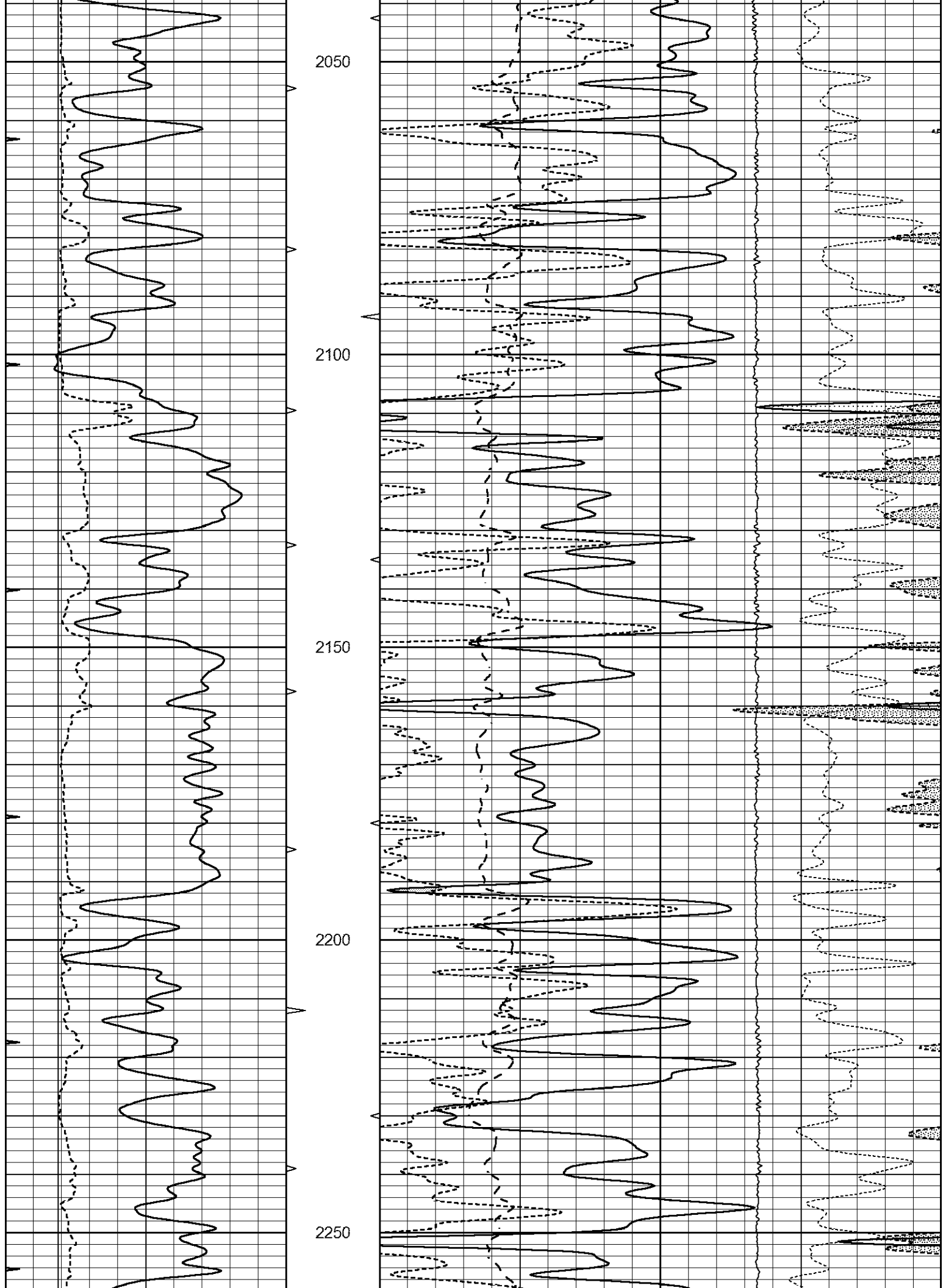


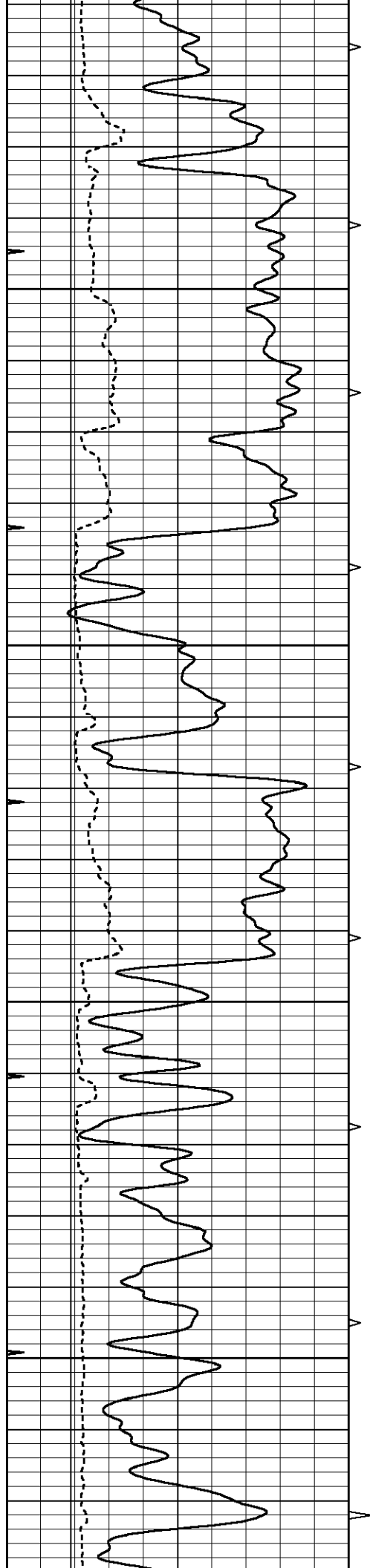


1600
1650
1700
1750
1800







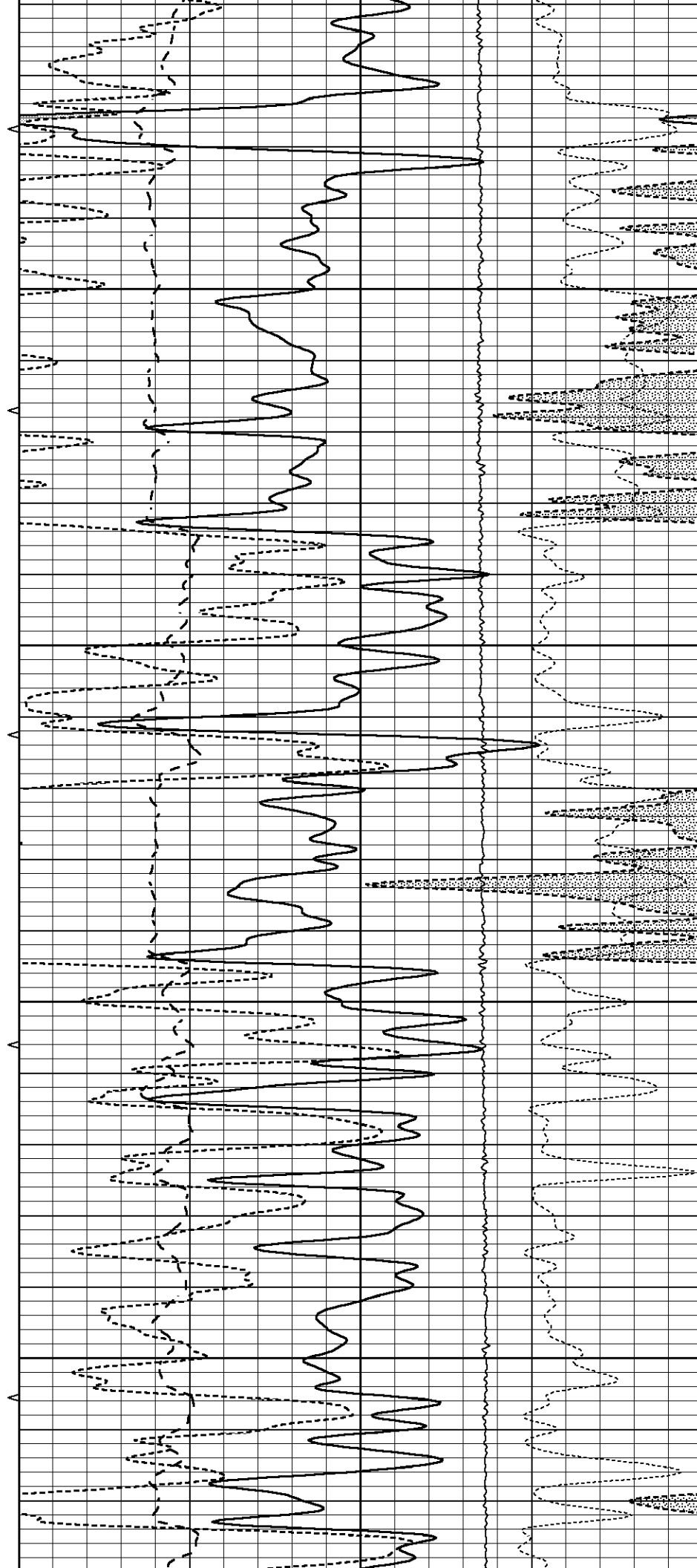


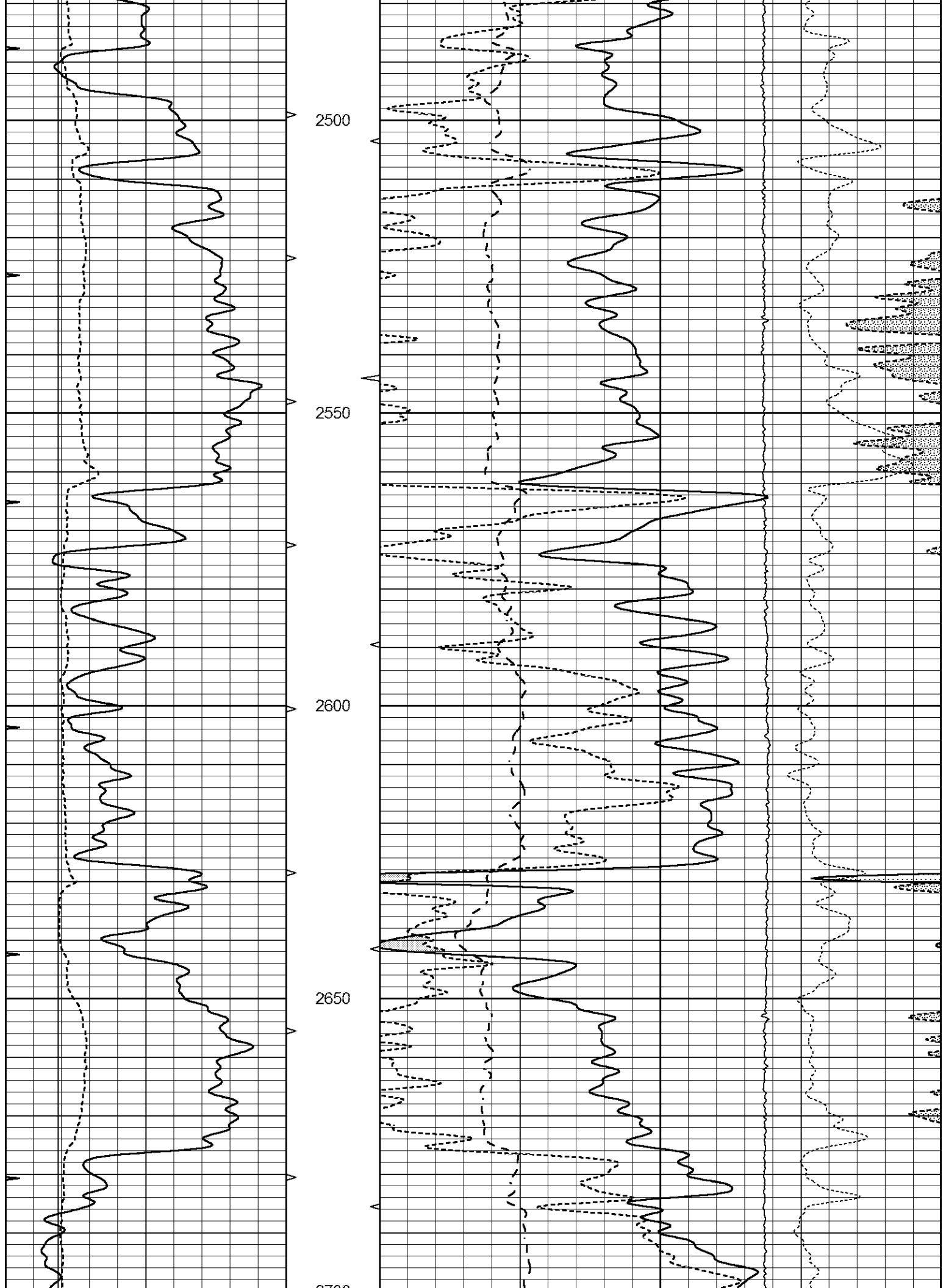
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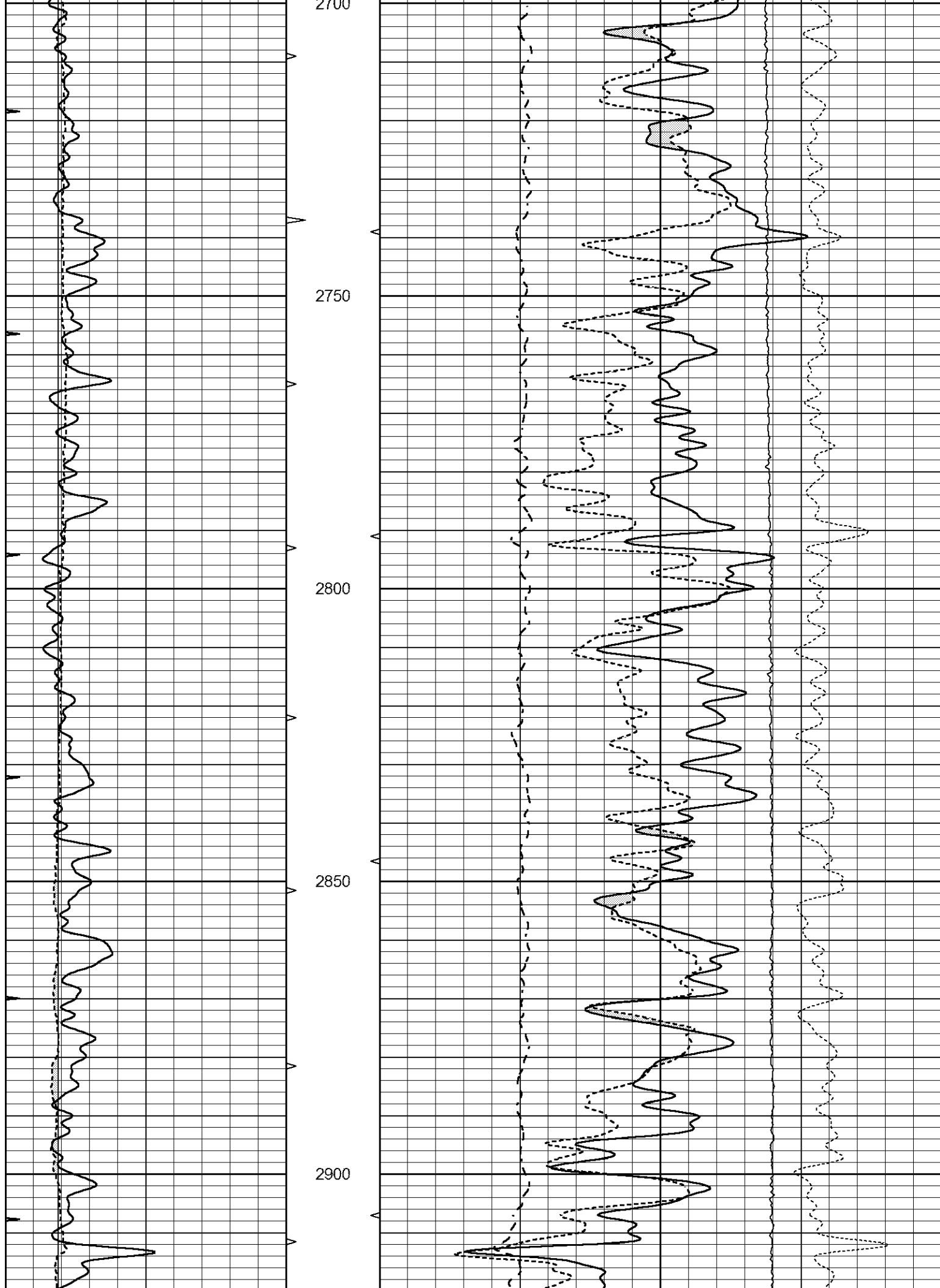
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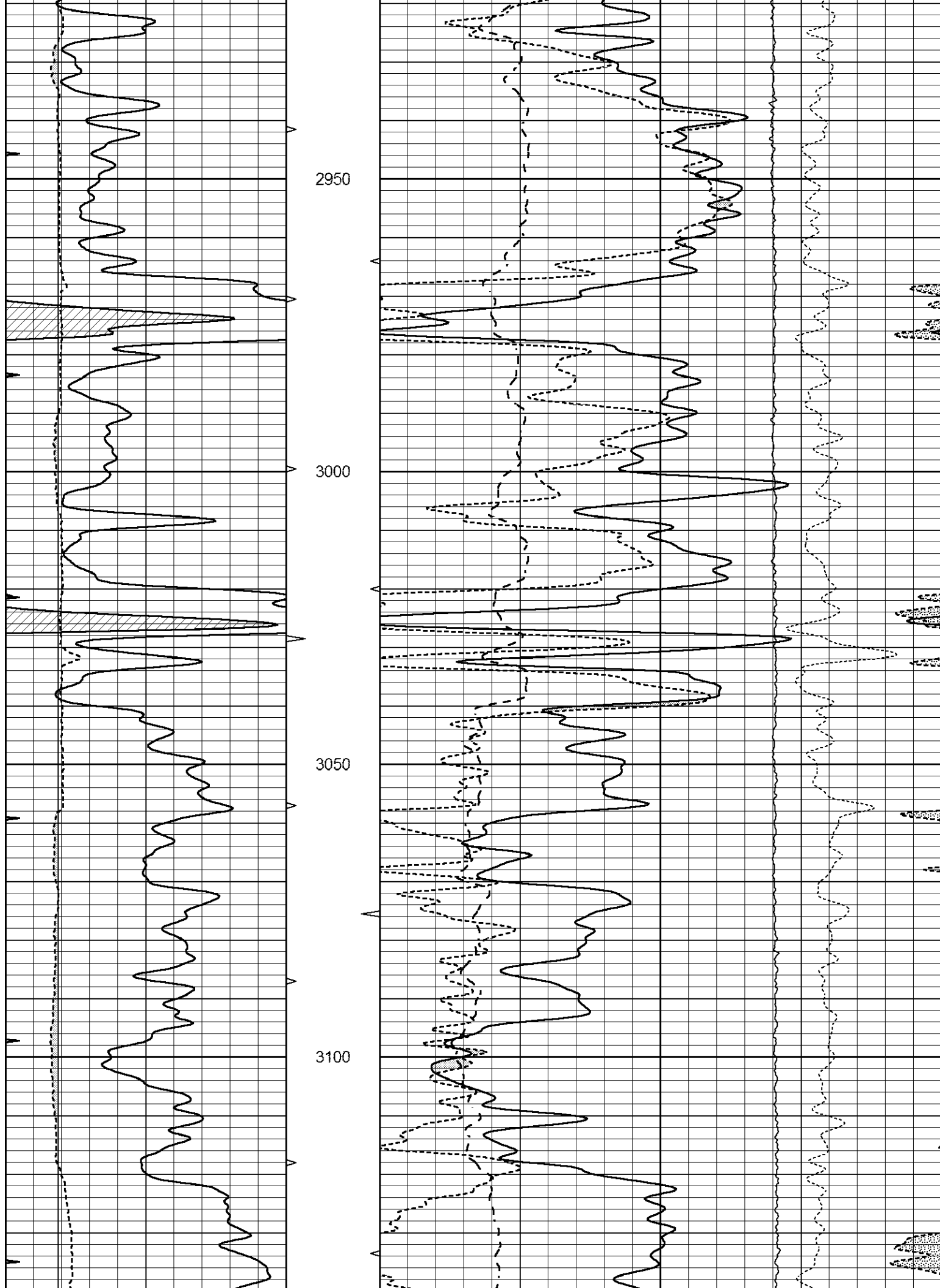
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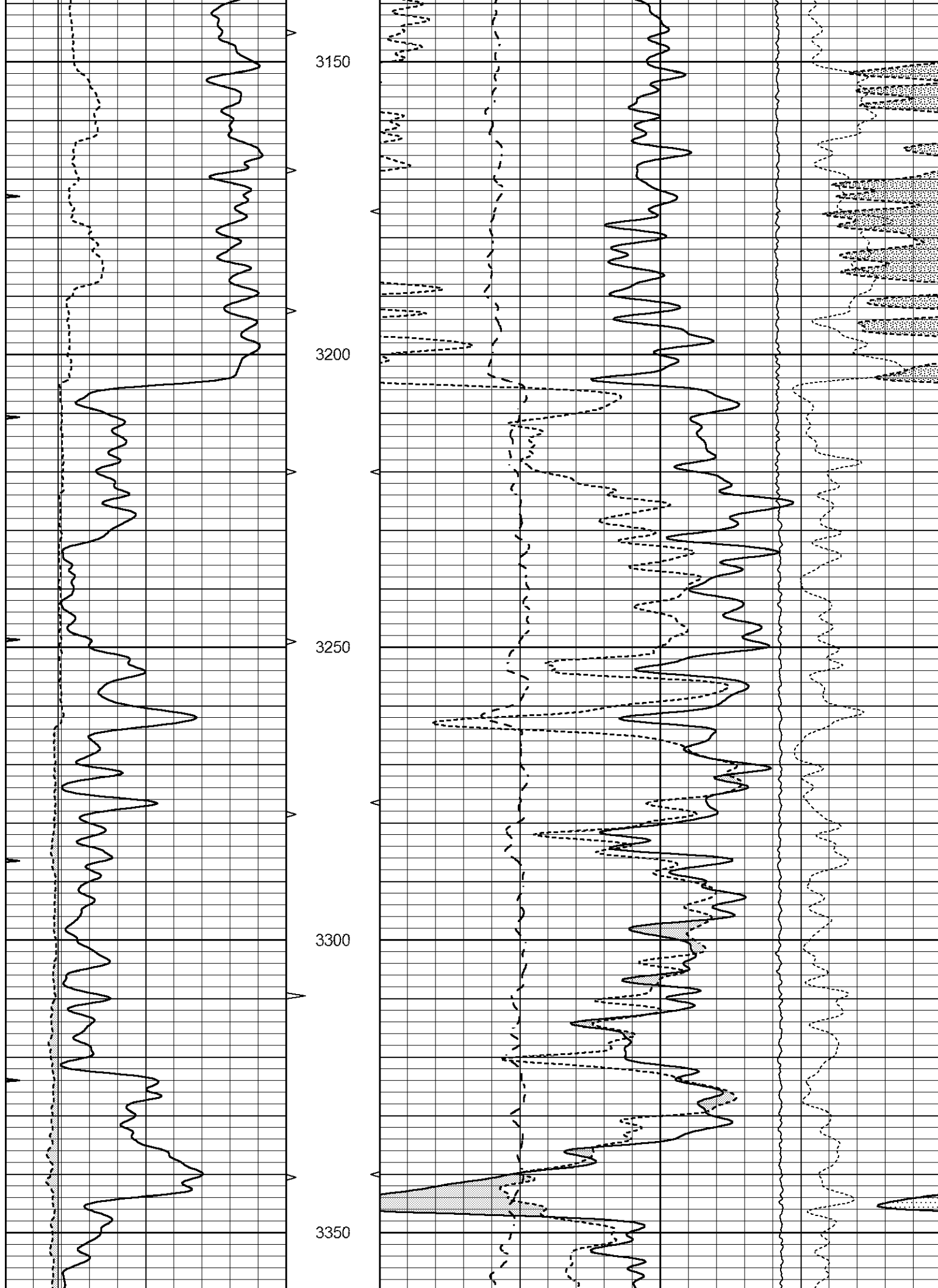
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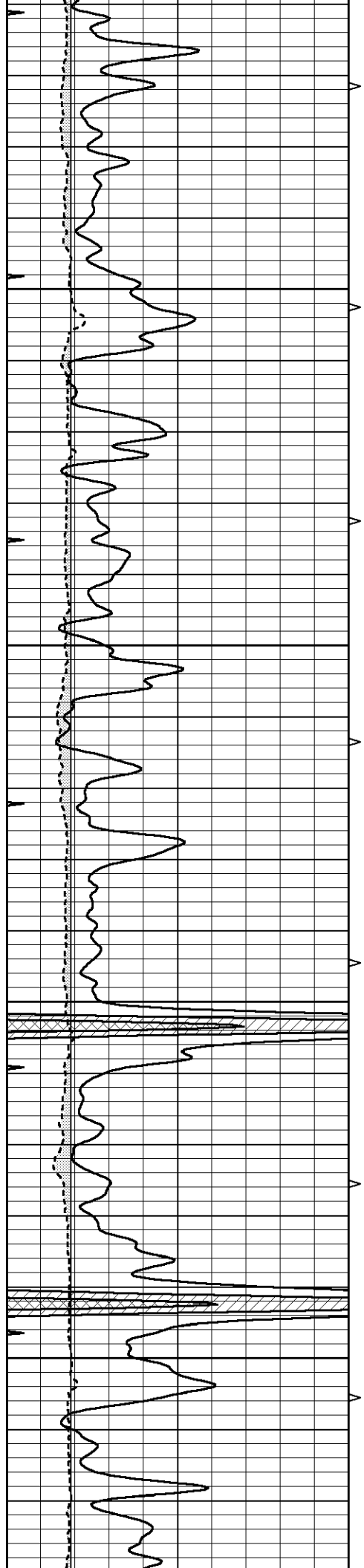










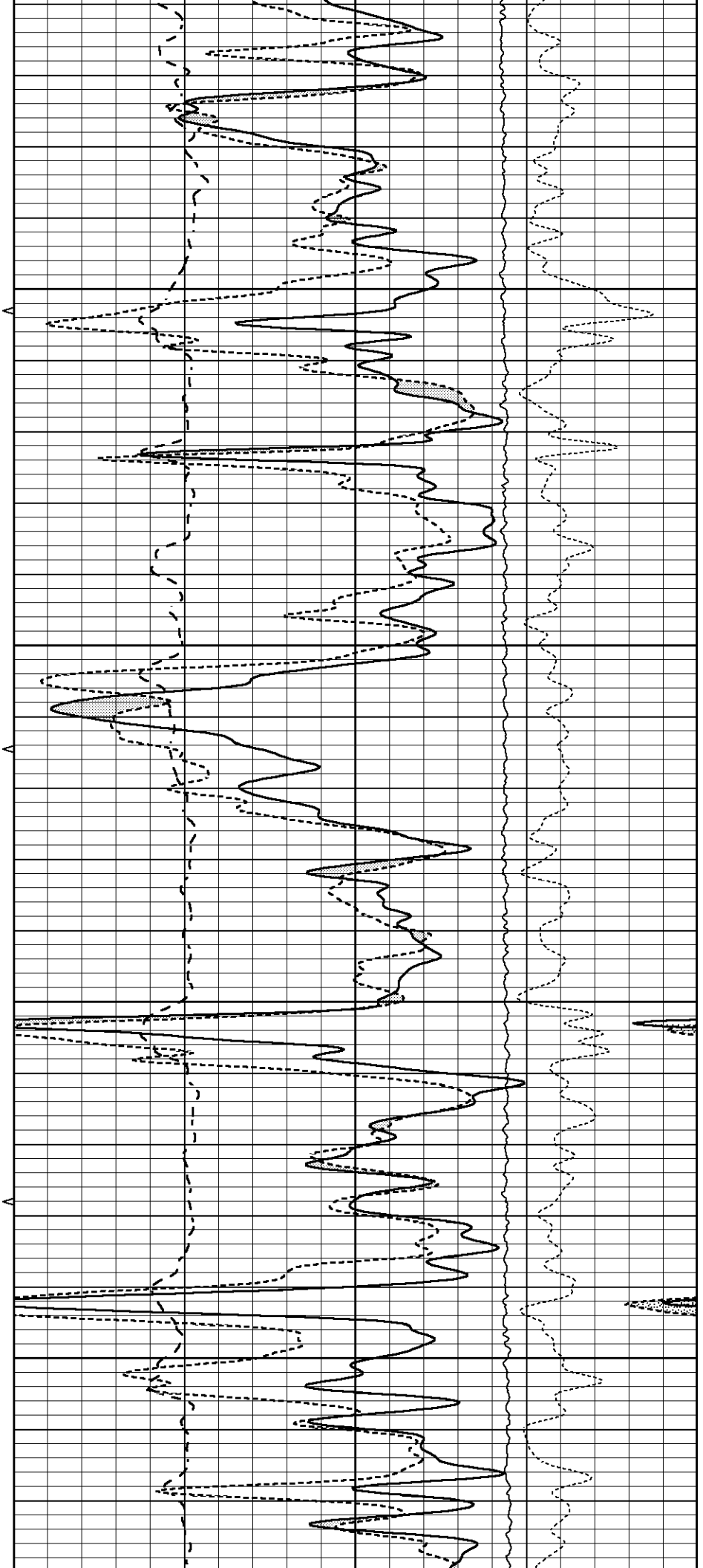


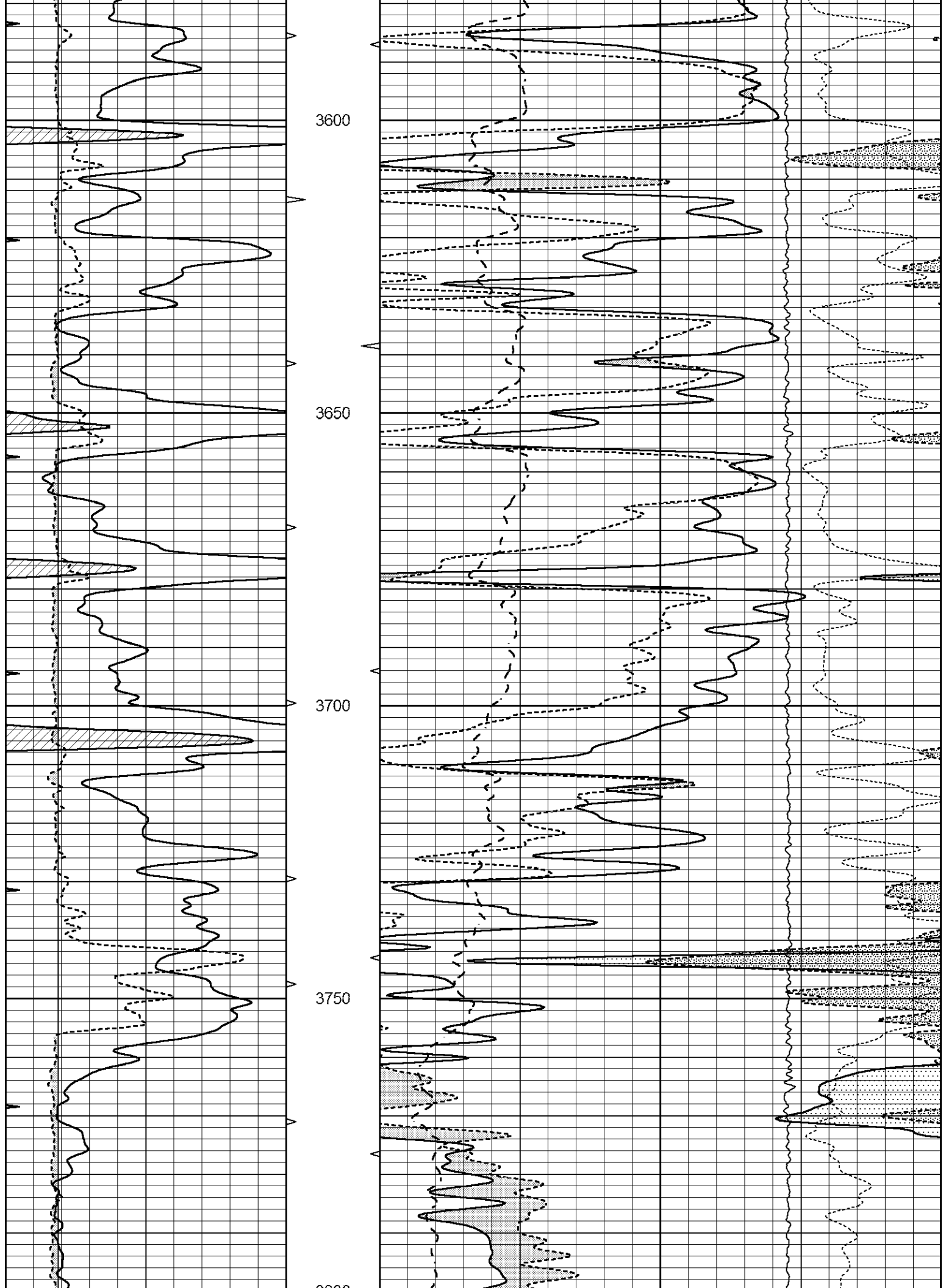
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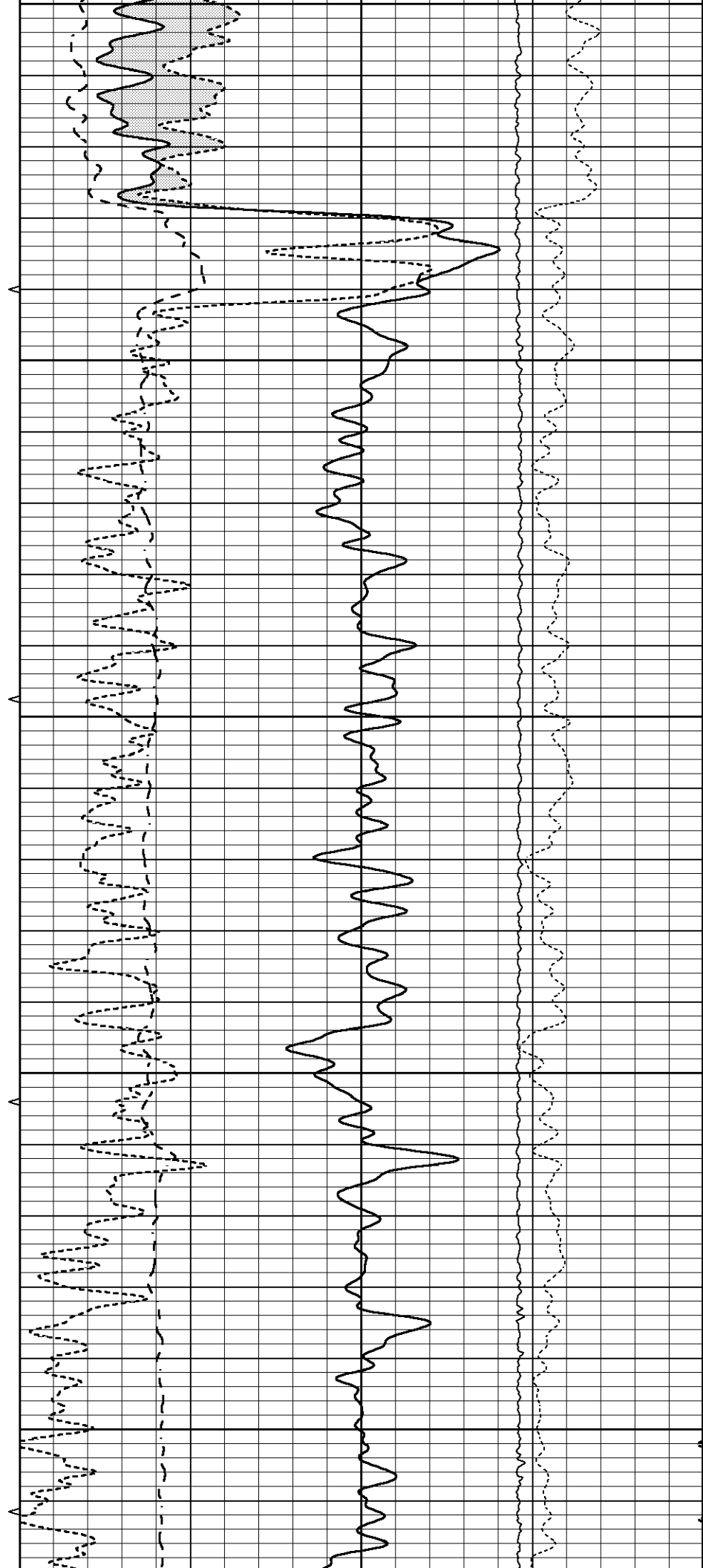
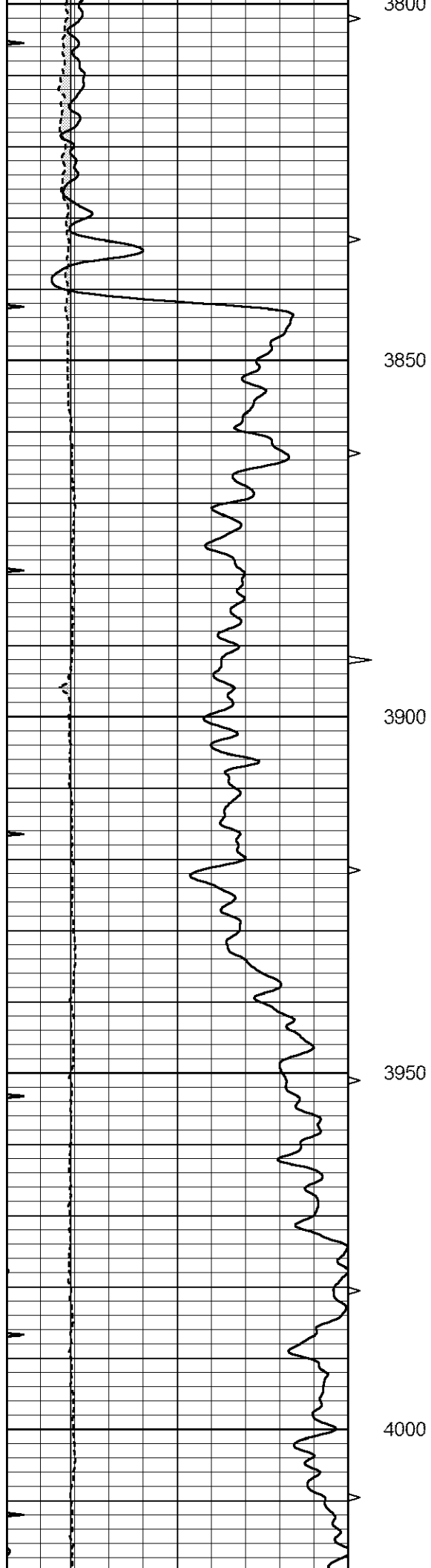
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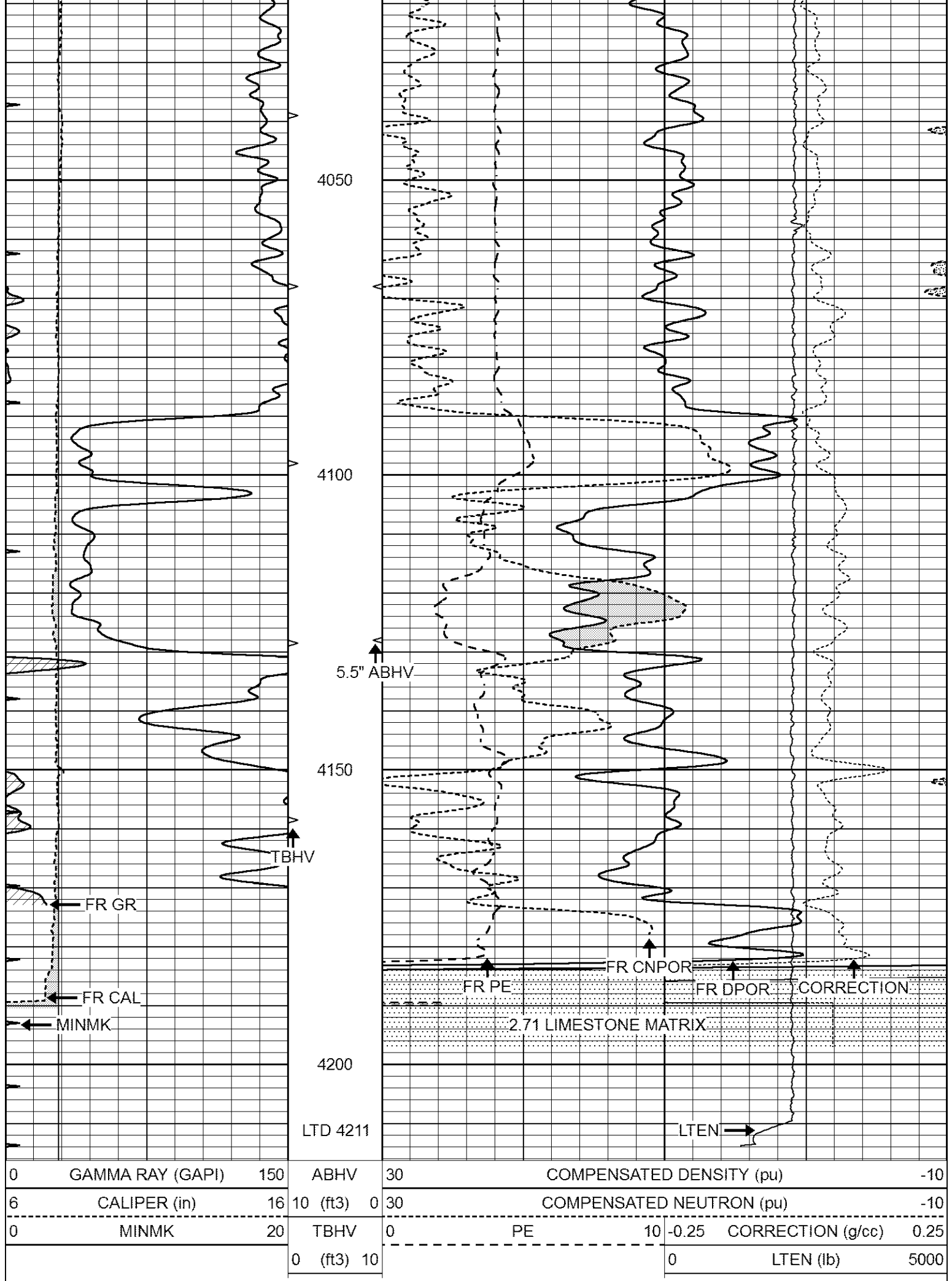
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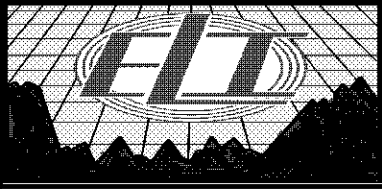
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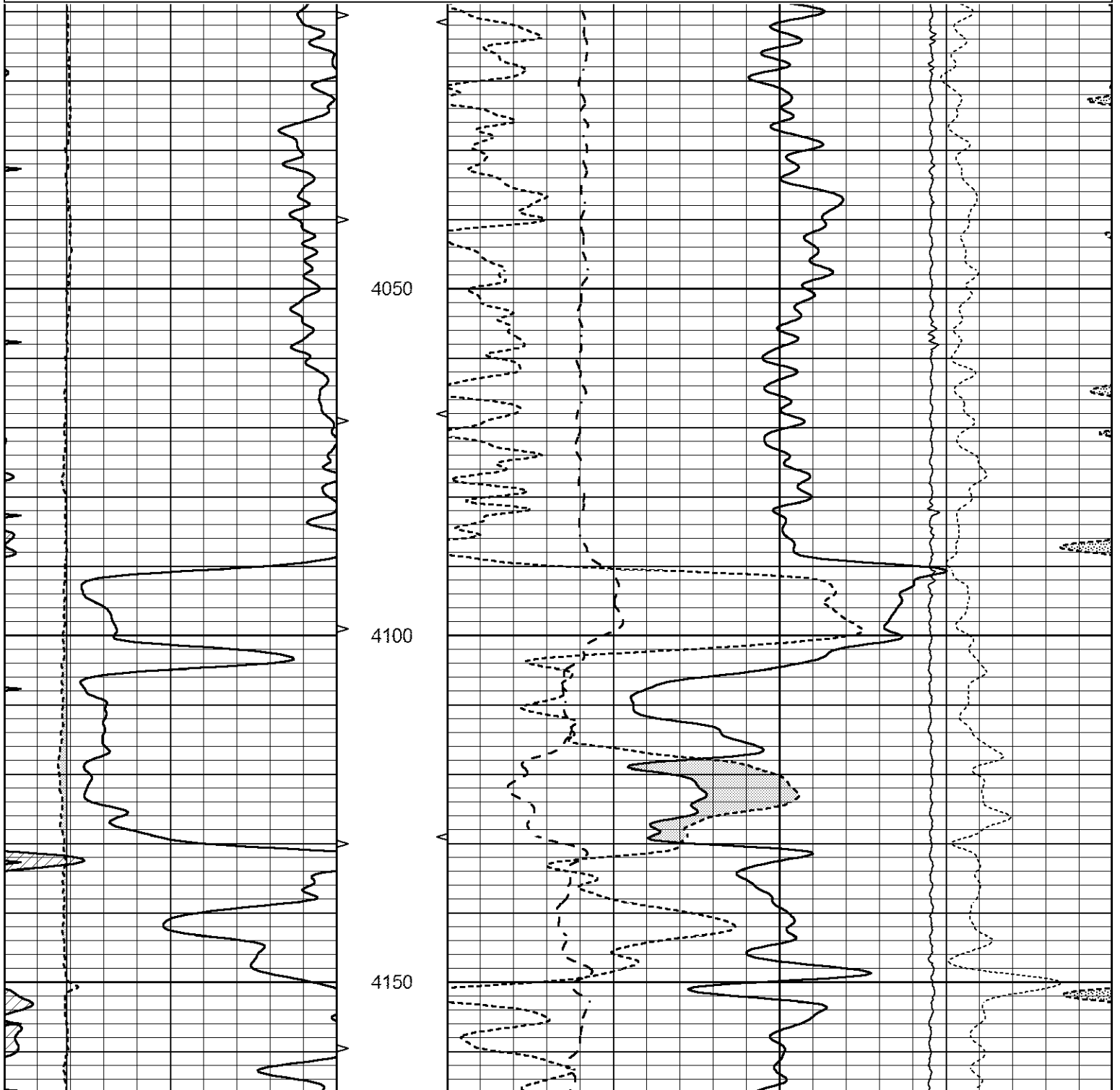


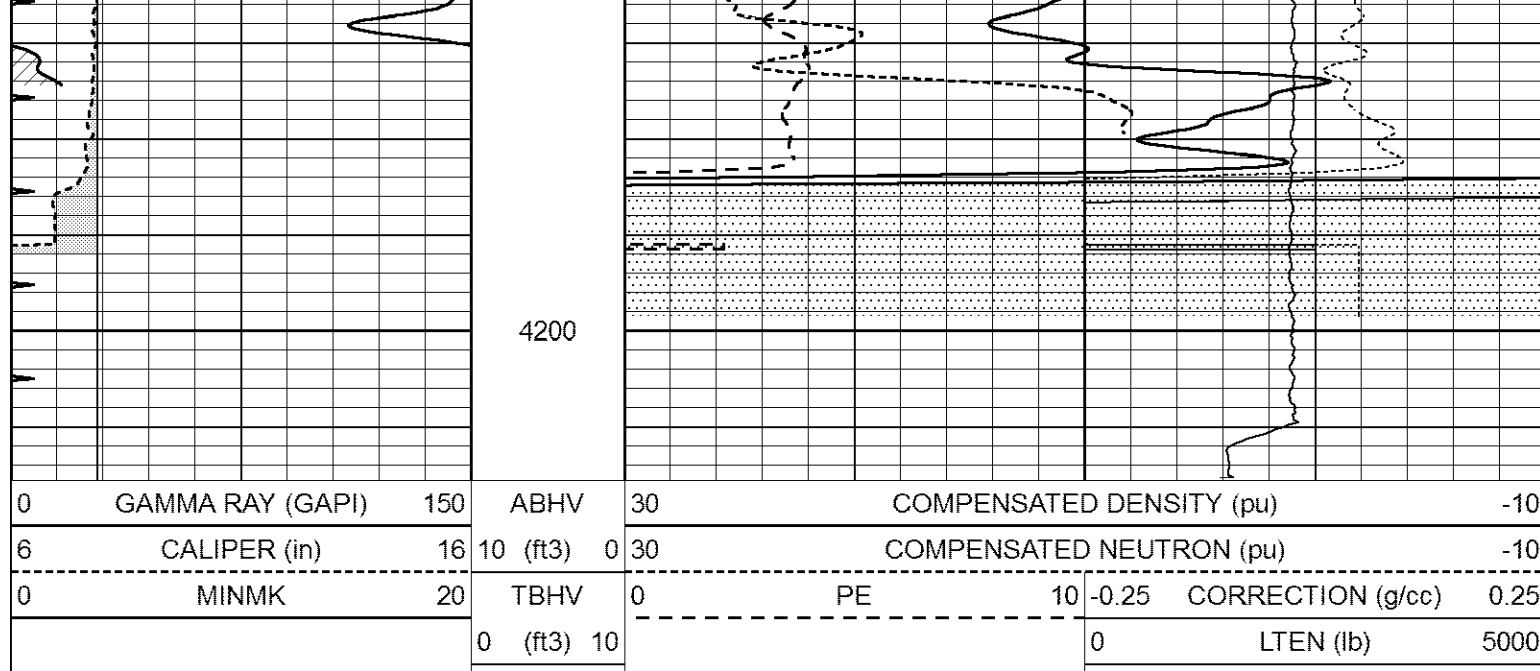


REPEAT SECTION

Database File 6772pe.db
Dataset Pathname pass2R
Presentation Format _ldt_neu
Dataset Creation Wed Aug 17 13:00:42 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	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			0 LTEN (lb) 5000





Calibration Report

Database File 6772pe.db
 Dataset Pathname pass3M
 Dataset Creation Wed Aug 17 12:44:05 2022

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Thu Jun 30 01:48:00 2022
 Downhole Cal Performed: Tue Feb 19 11:44:24 2019
 After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	600.000	-3.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	600.000	-10.500
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
LL3		7.503	V		1500.000	Ohm-m		
		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		
		-7.481	V		3745.000	mmho-m		

		0.000	0nm-m	20.000	0nm-m
		0.000	mmho-m	3745.000	mmho-m
Litho Density Calibration Report Serial: 140704 Model: V4_10P Source Number: 74GBq-19					
Master Calibration			Performed: Wed Jul 20 12:36:34 2022		
	Background	Aluminum	Magnesium		
Window 1	503.67	5439.20	23645.11	cps	
Window 2	40.11	1218.66	5702.60	cps	
Window 4	221.18	1240.69	5295.43	cps	
Window 5	542.56	7631.48	14305.13	cps	
Window 6	41.67	1209.53	2345.40	cps	
Window 8	256.91	2493.92	4591.85	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8302	SS Alpha:	: -0.7503	LS CPE:	: 1.1699
LS Beta:	: 122464.5983	SS Beta:	: 16307.0478	SS CPE:	: 1.6095
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: Wed Jul 20 12:36:34 2022		
Results	Readings	References (in)		Gain	Offset
Low	High	Low	High		
11331.0	15645.5	8.0	14.0	0.0	-7.6
Before Survey Caliper Verification			Performed:		
	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	