

COMPENSATED DENSITY/NEUTRON LOG

Company	RAYMOND OIL COMPANY, INC.		
Well	KREUTZER #1		
Field	UNNAMED		
County	WICHITA	State	KANSAS
Location:	API # : 15-203-20373-0000 1245' FNL & 416' FWL SE - SW - NW - NW		Other Services DIL/MEL
Permanent Datum	GROUND LEVEL	Elevation	3228
Log Measured From	KELLY BUSHING 5' A.G.L	K.B. 3233 D.F. 3231 G.L. 3228	
Drilling Measured From	KELLY BUSHING		
Date	11/5/22		
Run Number	ONE		
Depth Driller	5200		
Depth Logger	5200		
Bottom Logged Interval	5176		
Top Log Interval	3500		
Casing Driller	8 5/8" @ 250		
Casing Logger	250		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7.800 PPM	
Density / Viscosity	9.5/58		
pH / Fluid Loss	10.0/9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.30 @ 74F		
Rmt @ Meas. Temp	.975 @ 74F		
Rmc @ Meas. Temp	1.56 @ 74F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.757 @ 127F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	2.30 A.M.		
Maximum Recorded Temperature	127F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBEN		
Witnessed By	KIM SHOEMAKER		

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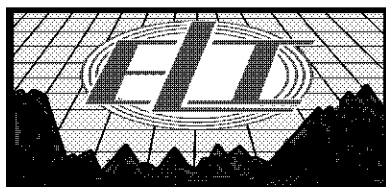
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

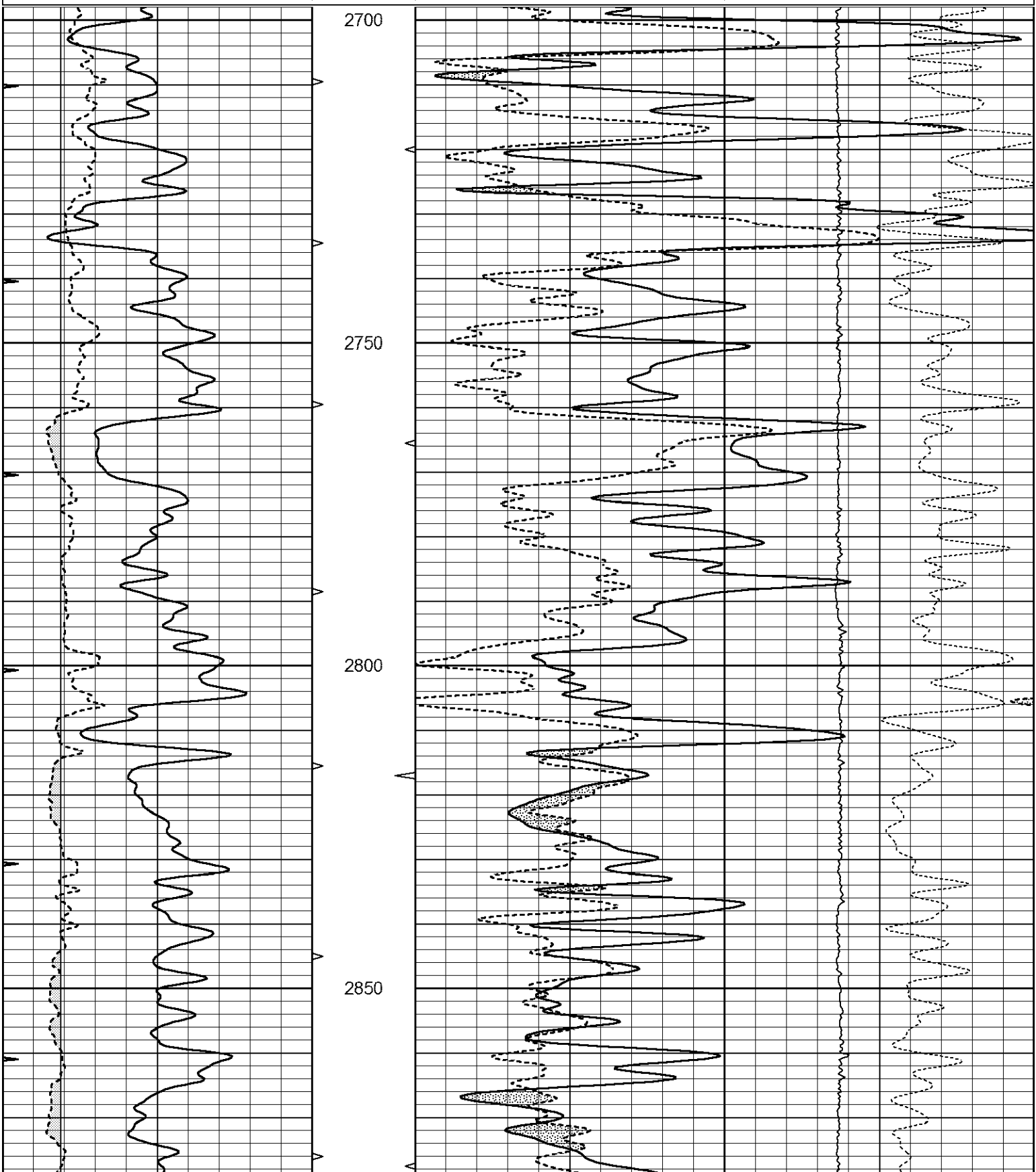
FROM LEOTI, KANSAS GO 7 MILES SOUTH ON HIGHWAY 25 TO W ROAD, 4 MILES EAST TO 17 ROAD (T INTERSECTION), 1/4 MILE SOUTH, EAST INTO

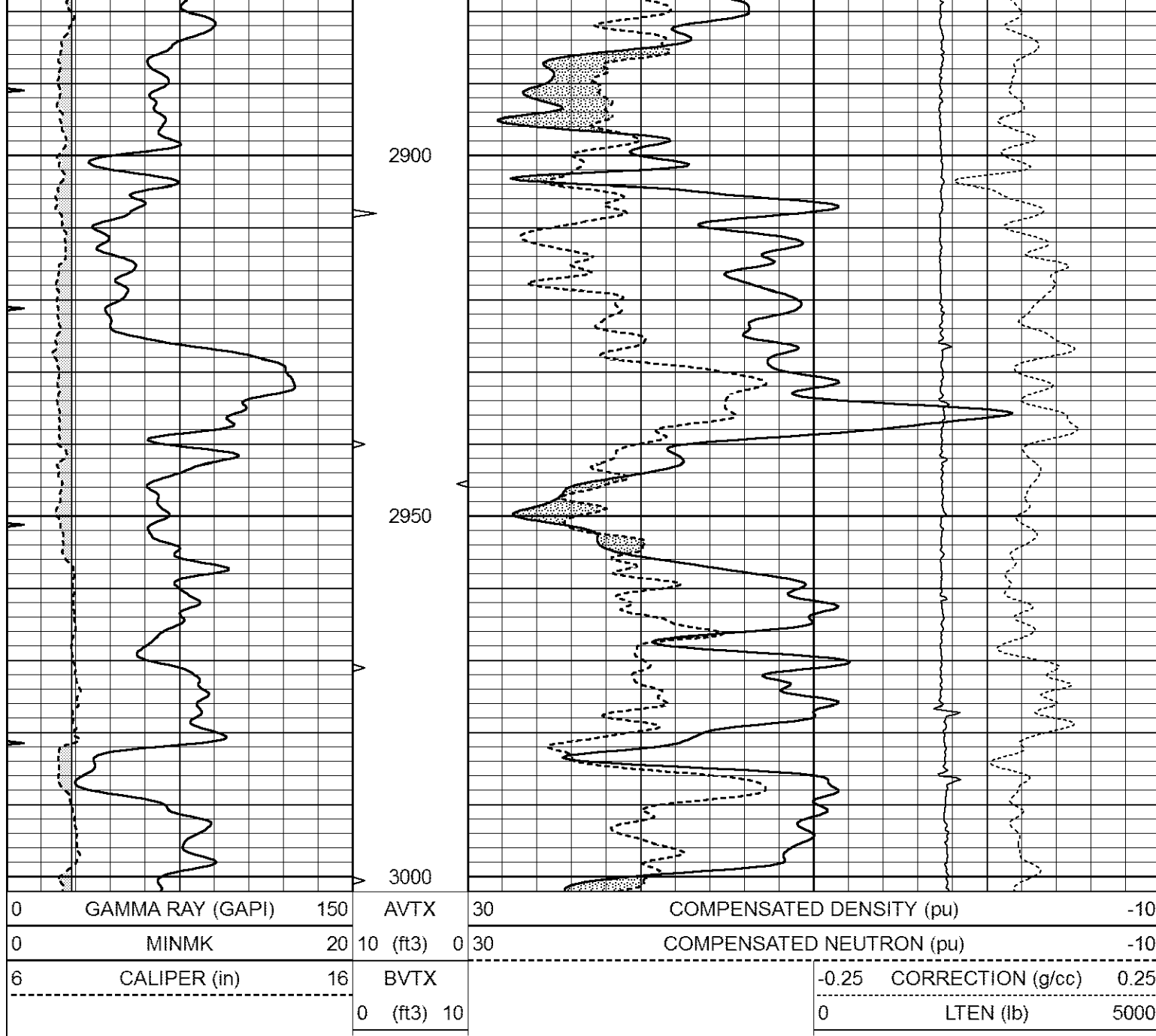


GAS SECTION

Database File	7246ddn.db
Dataset Pathname	pass4G
Presentation Format	_den_neu
Dataset Creation	Sat Nov 05 06:08:02 2022
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10		0 LTEN (lb)	5000

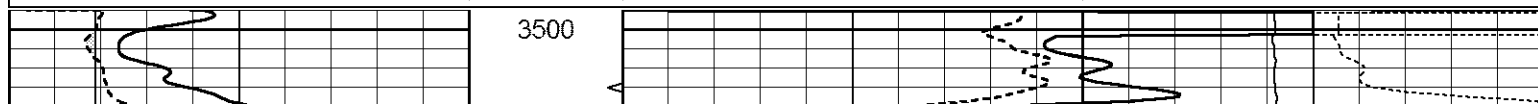


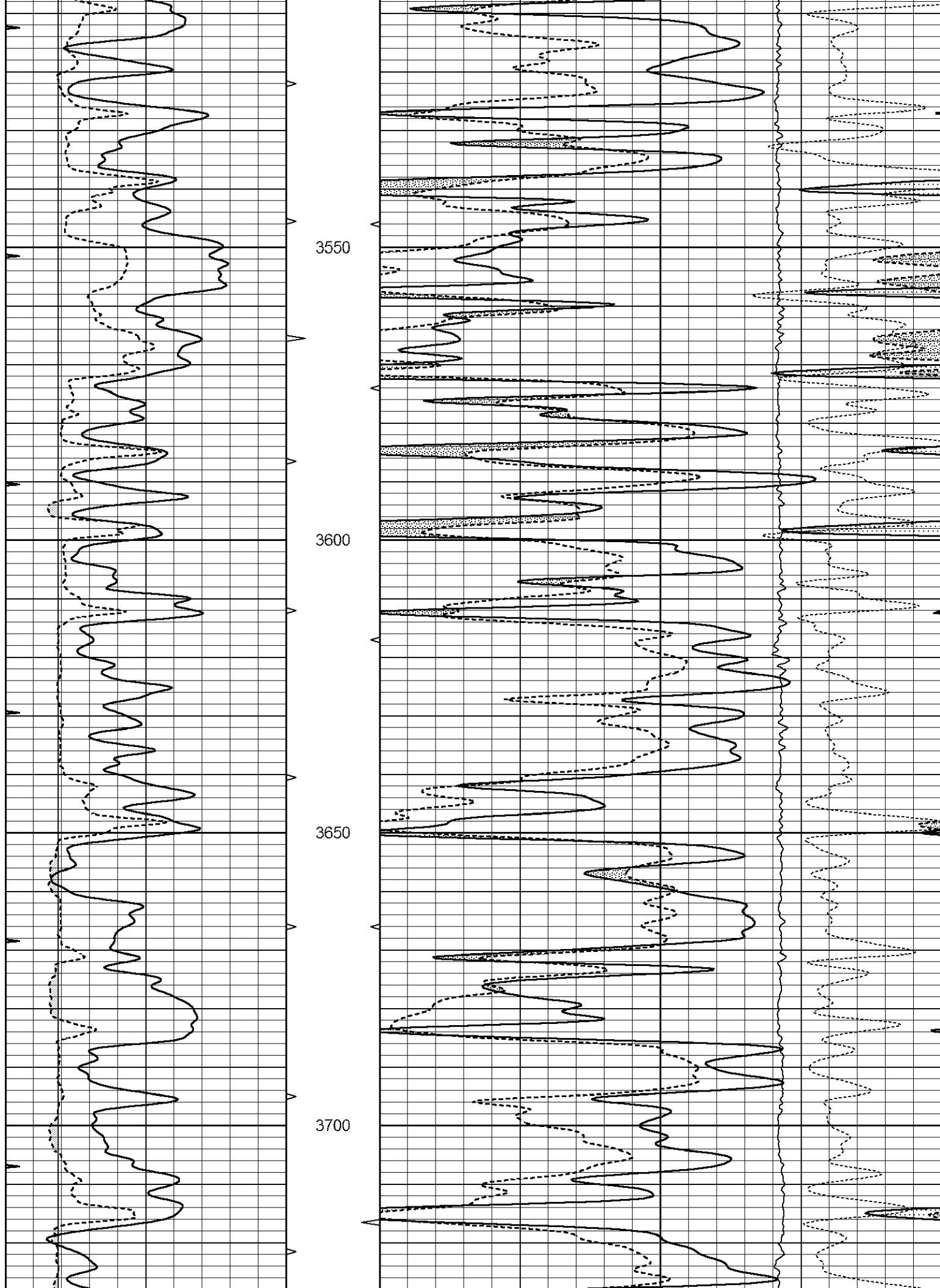


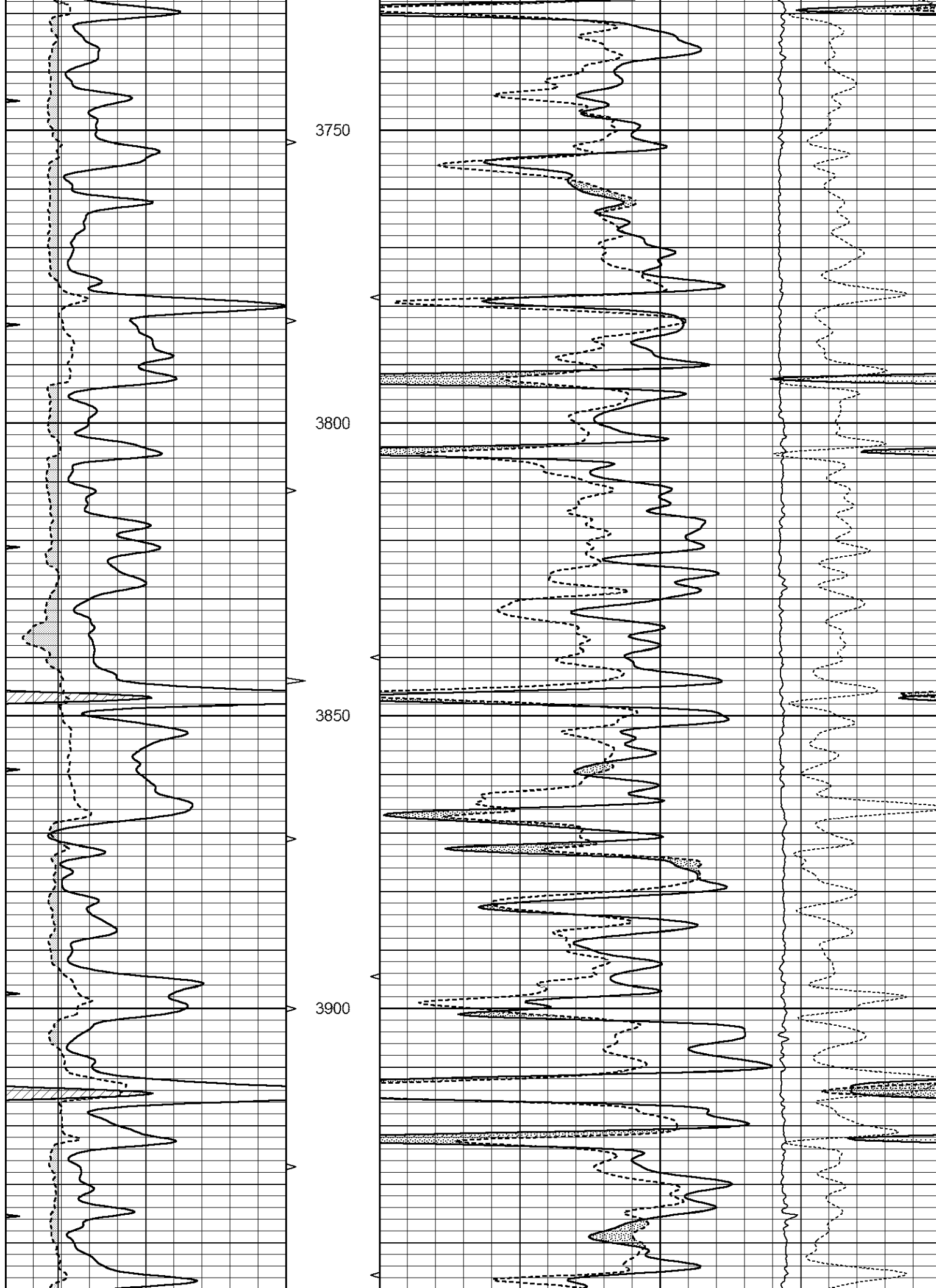
MAIN SECTION

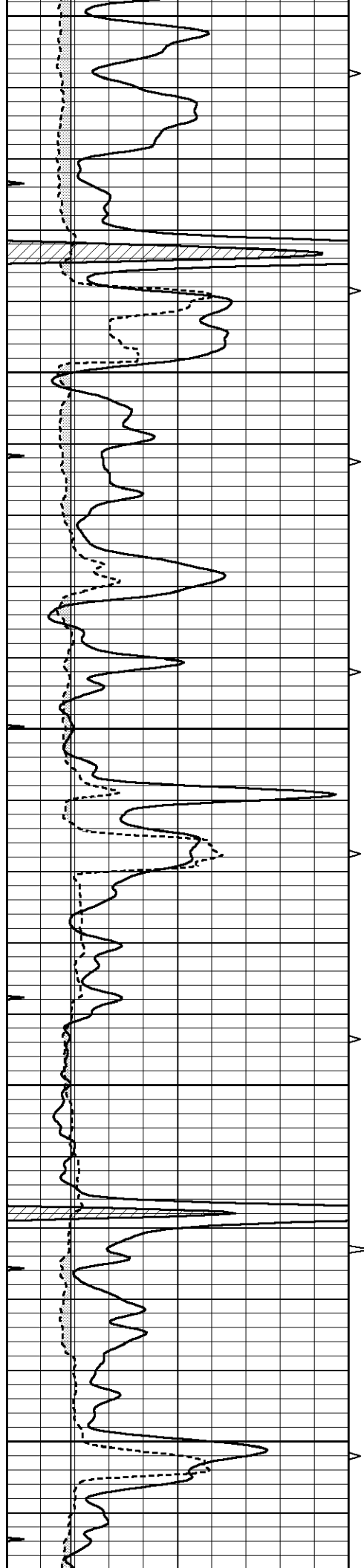
Database File 7246ddn.db
 Dataset Pathname pass4MN
 Presentation Format _den_neu
 Dataset Creation Sat Nov 05 05:24:18 2022
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10		0 LTEN (lb)	5000









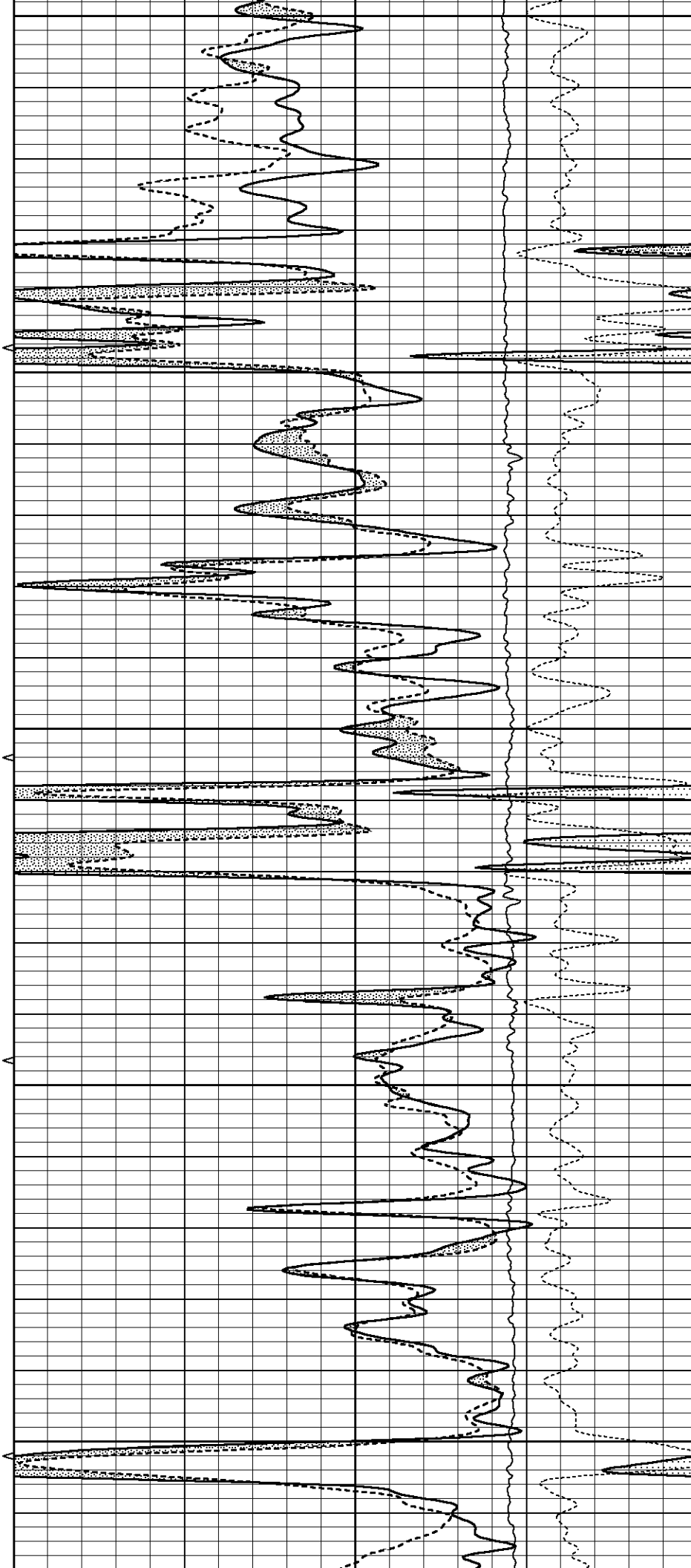
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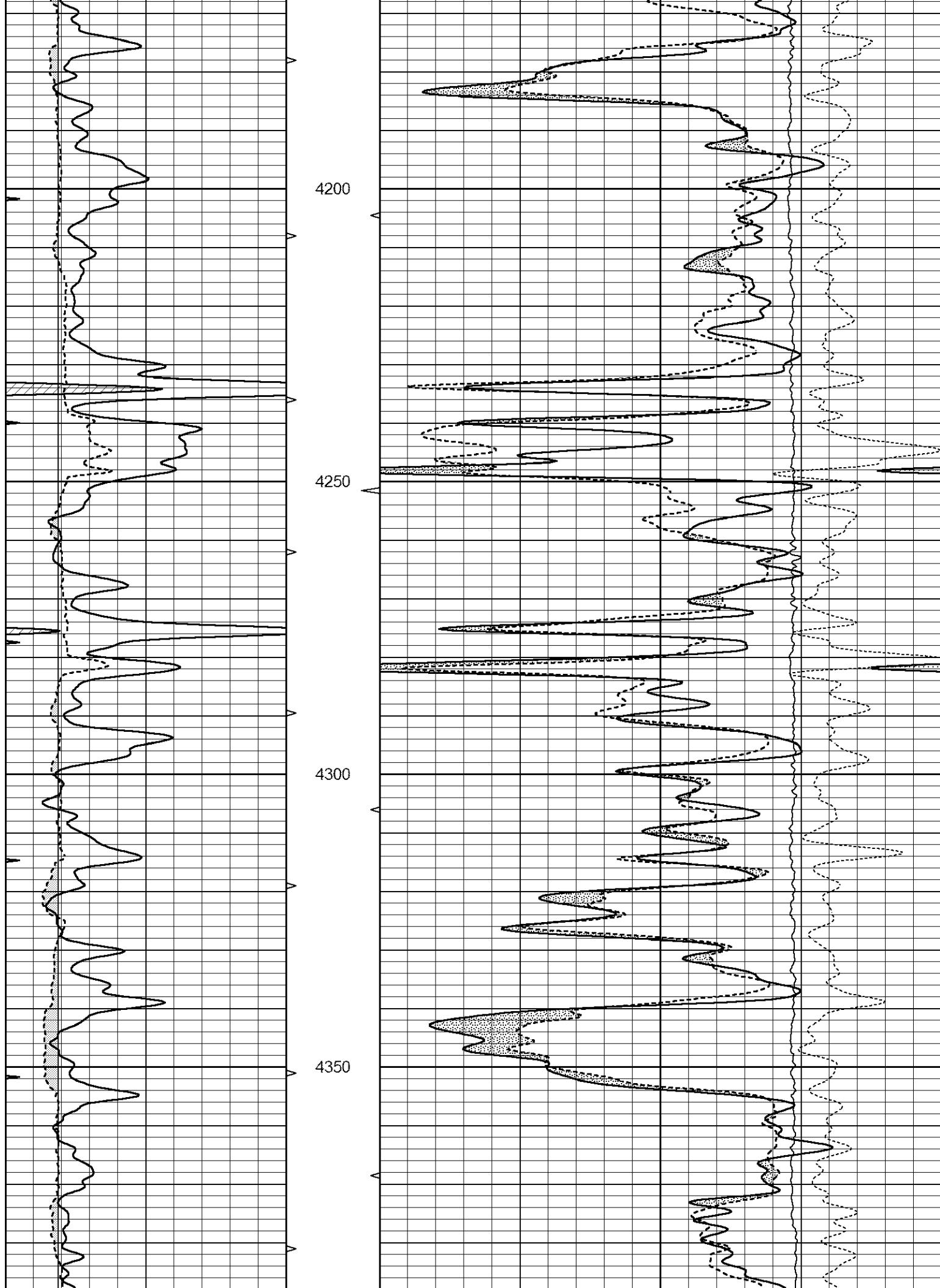
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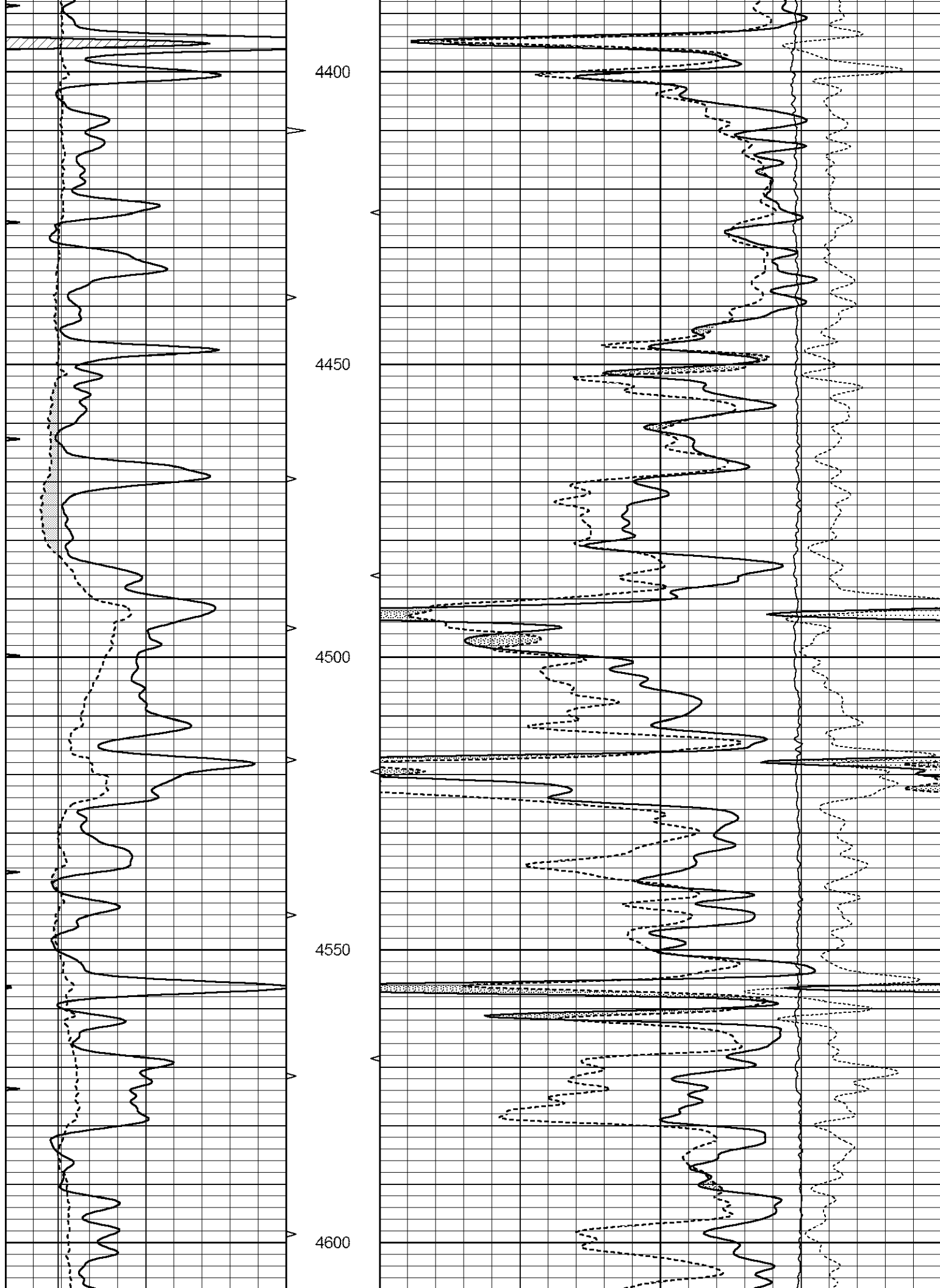
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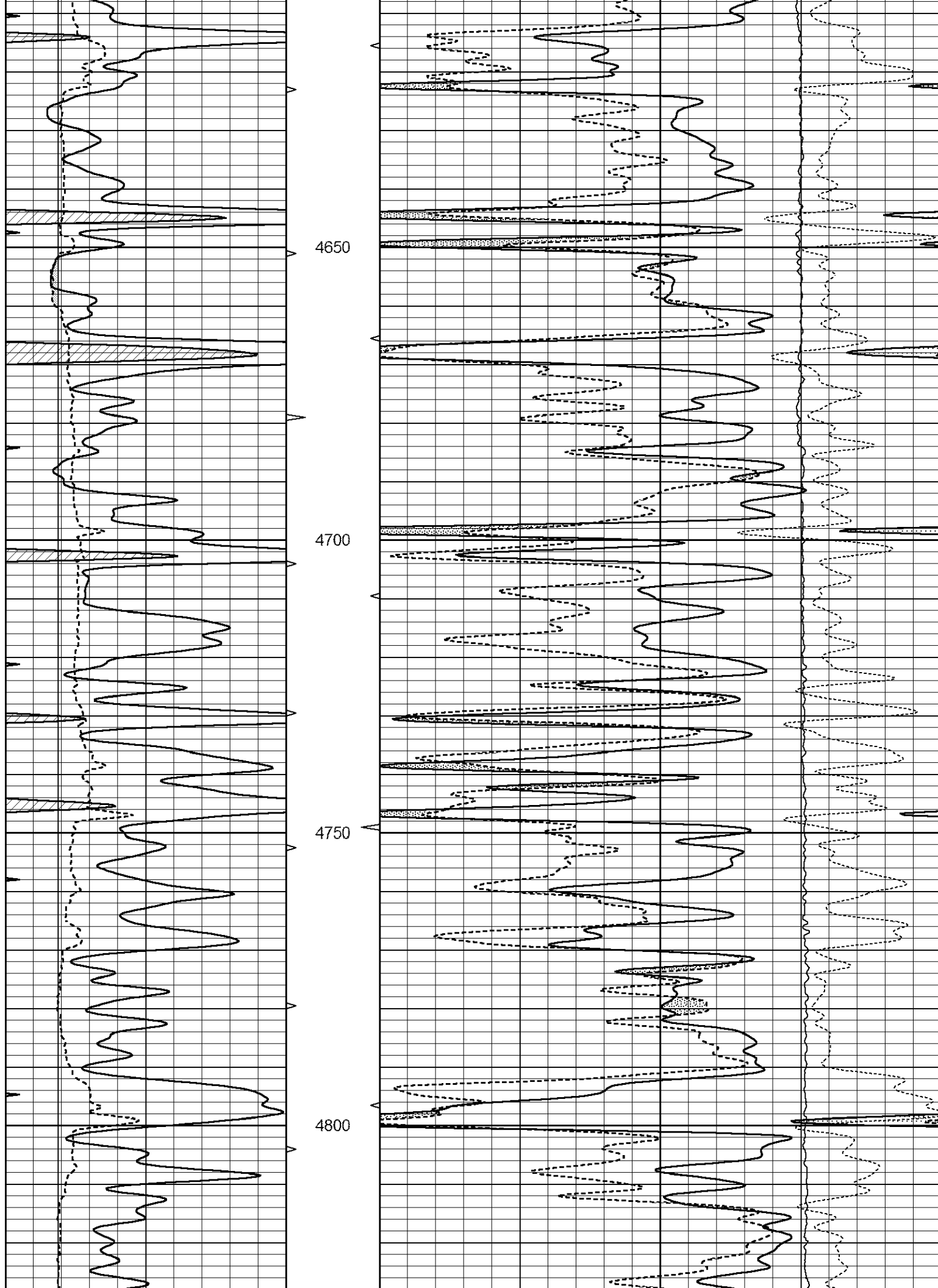
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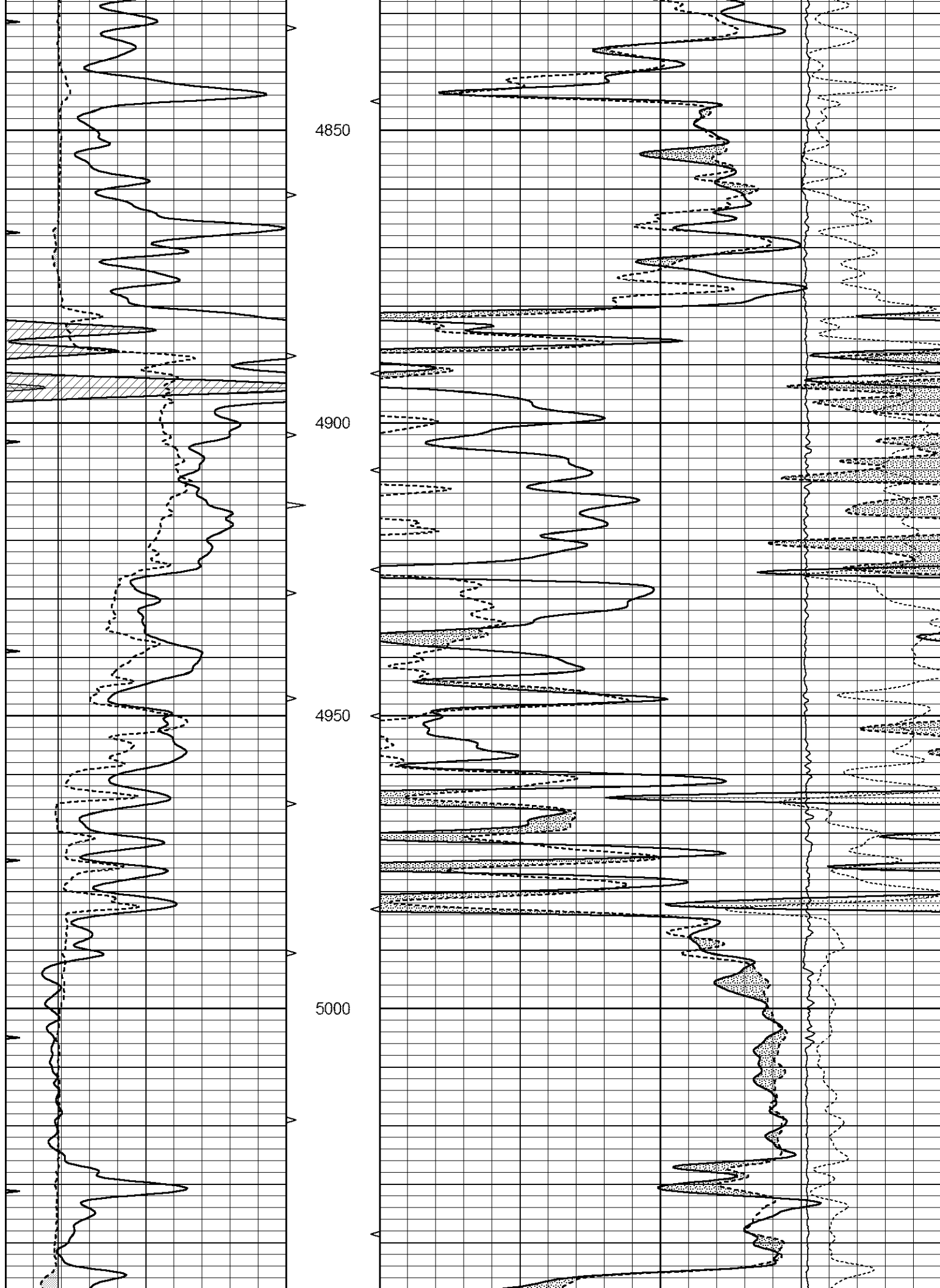
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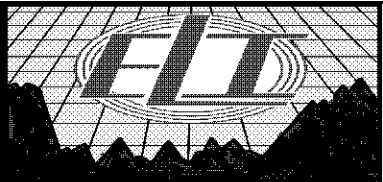
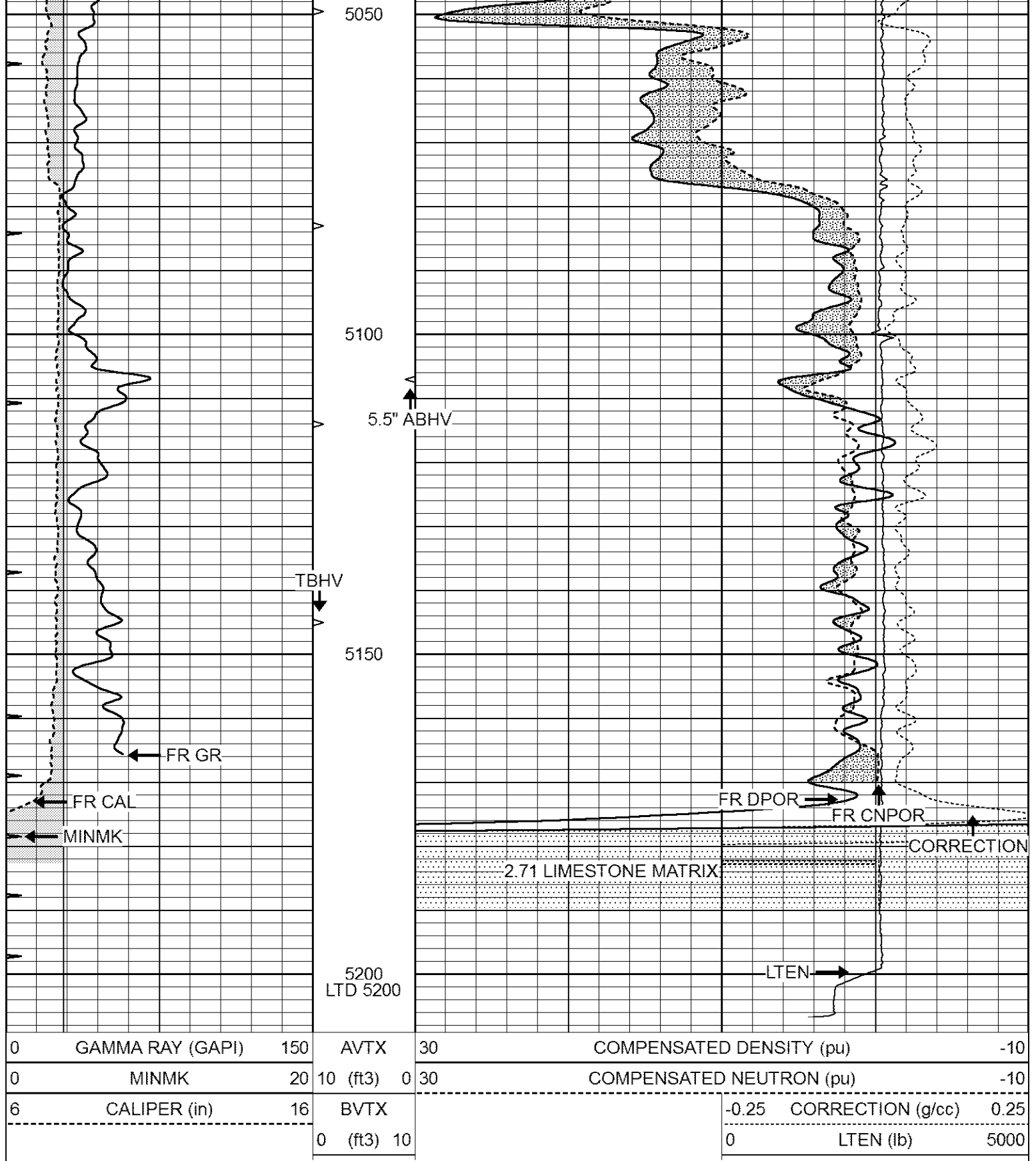








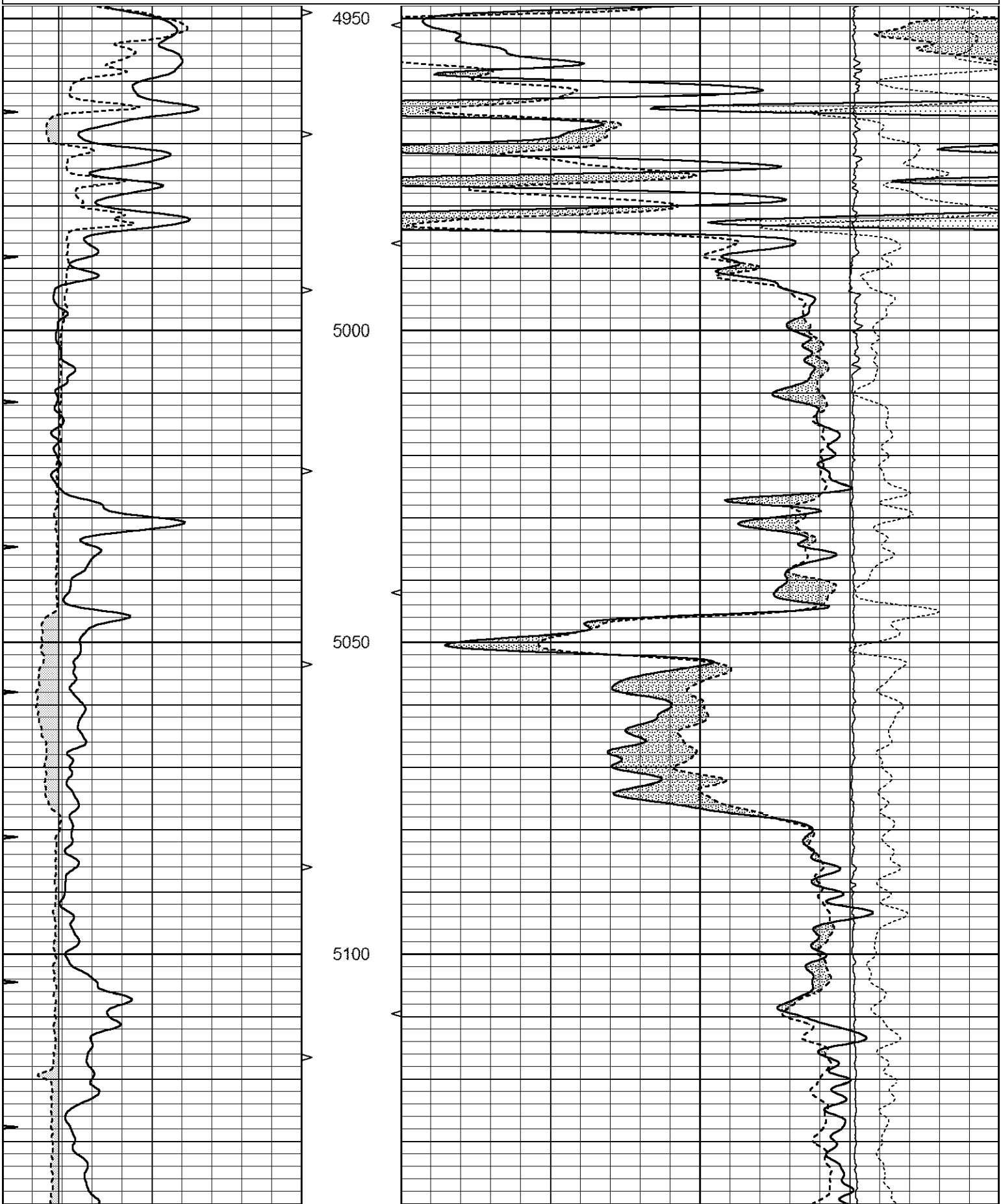


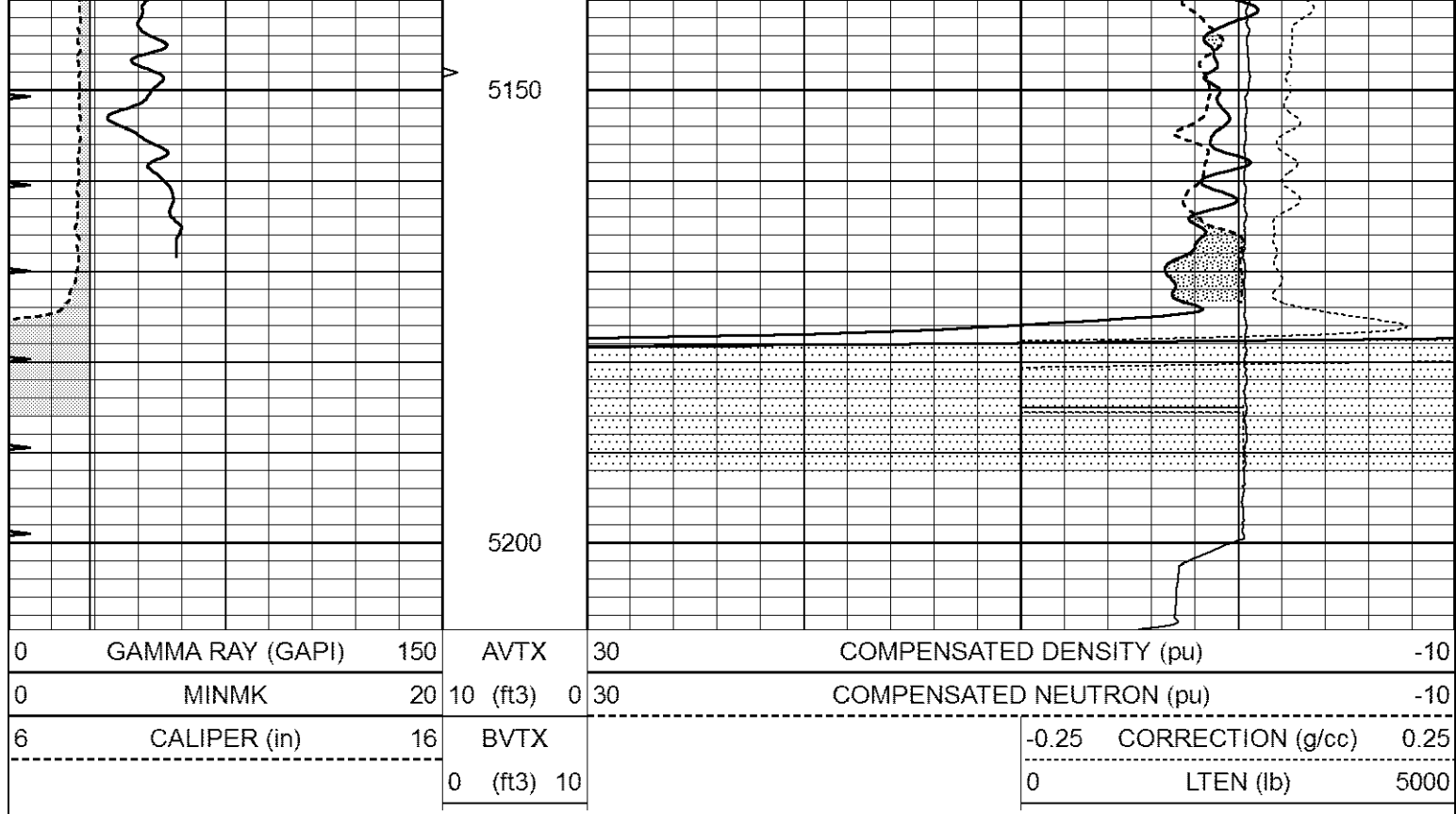


REPEAT SECTION

Database File 7246ddn.db
 Dataset Pathname pass2.1
 Presentation Format _den_neu
 Dataset Creation Sat Nov 05 01:23:06 2022

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)		-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)		-10
6	CALIPER (in)	16	BVTX		-0.25	CORRECTION (g/cc)	0.25
			0 (ft3) 10		0	LTEN (lb)	5000





Calibration Report								
Database File	7246ddn.db							
Dataset Pathname	pass4MN							
Dataset Creation	Sat Nov 05 05:24:18 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								
		Readings		References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	770.000	-3.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	750.000	-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		
		0.000	mmho-m		3745.000	mmho-m		

Litho Density Calibration Report
Serial: 140704
Model: V4_10P
Source Number: 74GBq-19

Master Calibration

Performed: Tue Oct 25 14:02:07 2022

	Background	Aluminum	Magnesium		
Window 1	501.98	5377.33	23235.87	cps	
Window 2	38.66	1167.13	5462.52	cps	
Window 4	219.95	1265.38	5296.65	cps	
Window 5	535.47	7345.58	14269.59	cps	
Window 6	42.48	1172.64	2113.12	cps	
Window 8	252.82	2368.74	4743.90	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8018	SS Alpha:	: -0.8503	LS CPE:	: 1.2527
LS Beta:	: 116585.8005	SS Beta:	: 19984.2984	SS CPE:	: 1.5732

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: Tue Oct 25 14:02:07 2022

Results	Readings	References (in)		Gain	Offset
Low	High	Low	High		
9378.6	12243.0	8.0	14.0	0.0	-11.8

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	