



COMPENSATED DENSITY/NEUTRON LOG

Company	RAYMOND OIL COMPANY, INC.
Well	GERSTBERGER #22-2
Field	UNNAMED
County	WICHITA
State	KANSAS
Location:	API # : 15-203-20386-0000
Permanent Datum	GROUND LEVEL Elevation 3239
Log Measured From	KELLY BUSHING 5' A.G.L
Drilling Measured From	KELLY BUSHING
SEC 22 TWP 20S RGE 36W	DIL/MEL
	Elevation
	K.B. 3244
	D.F. 3242
	G.L. 3239
Date	11/21/23
Run Number	ONE
Depth Driller	5050
Depth Logger	5050
Bottom Logged Interval	5026
Top Log Interval	2600
Casing Driller	8.625 @ 263
Casing Logger	263
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.5/55
PH / Fluid Loss	10.0/12.0
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.950 @ 56F
Rmt @ Meas. Temp	.713 @ 56F
Rmc @ Meas. Temp	1.14 @ 56F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.418 @ 125F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	3:00 A.M.
Maximum Recorded Temperature	125F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	COLE ROBEN
Witnessed By	KIM SHOEMAKER

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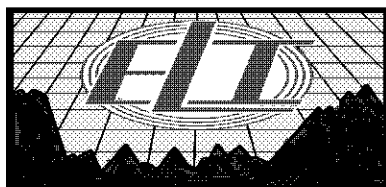
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

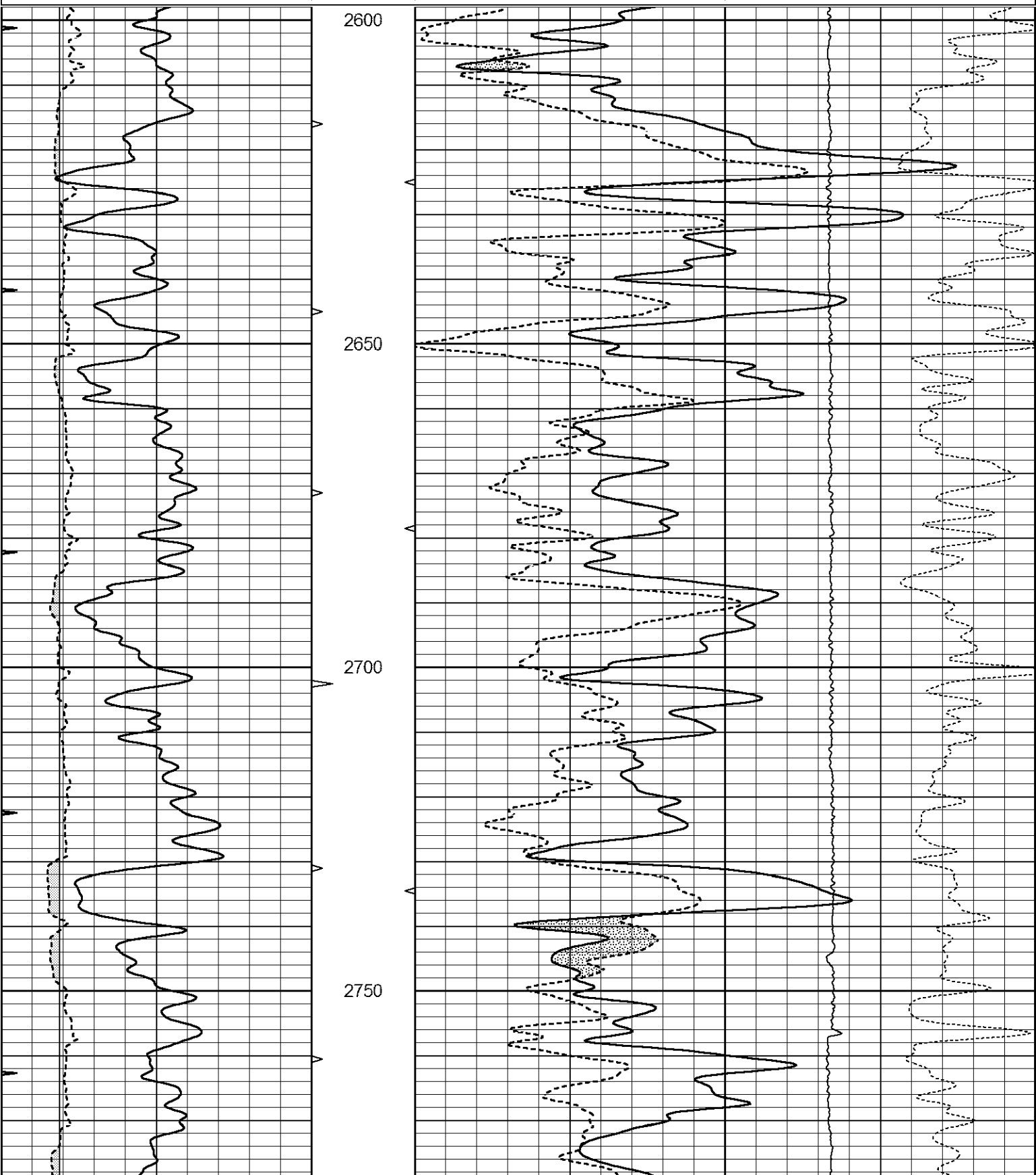
FROM LEOTI, KANSAS GO 18 MILES SOUTH THEN EAST ON HIGHWAY 25, NORTH ON 17 ROAD FOR 2 MILES, NORTHWEST INTO

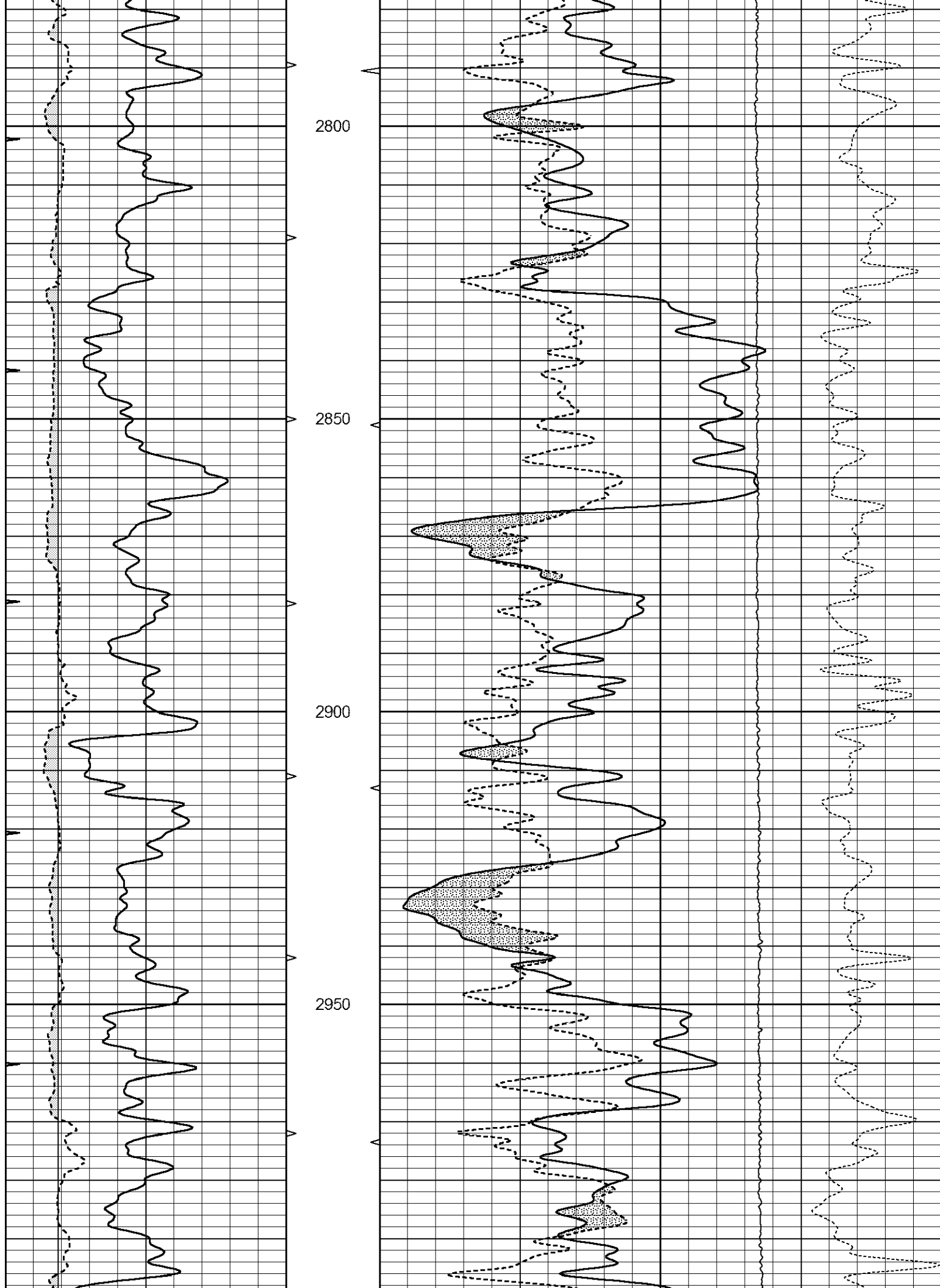


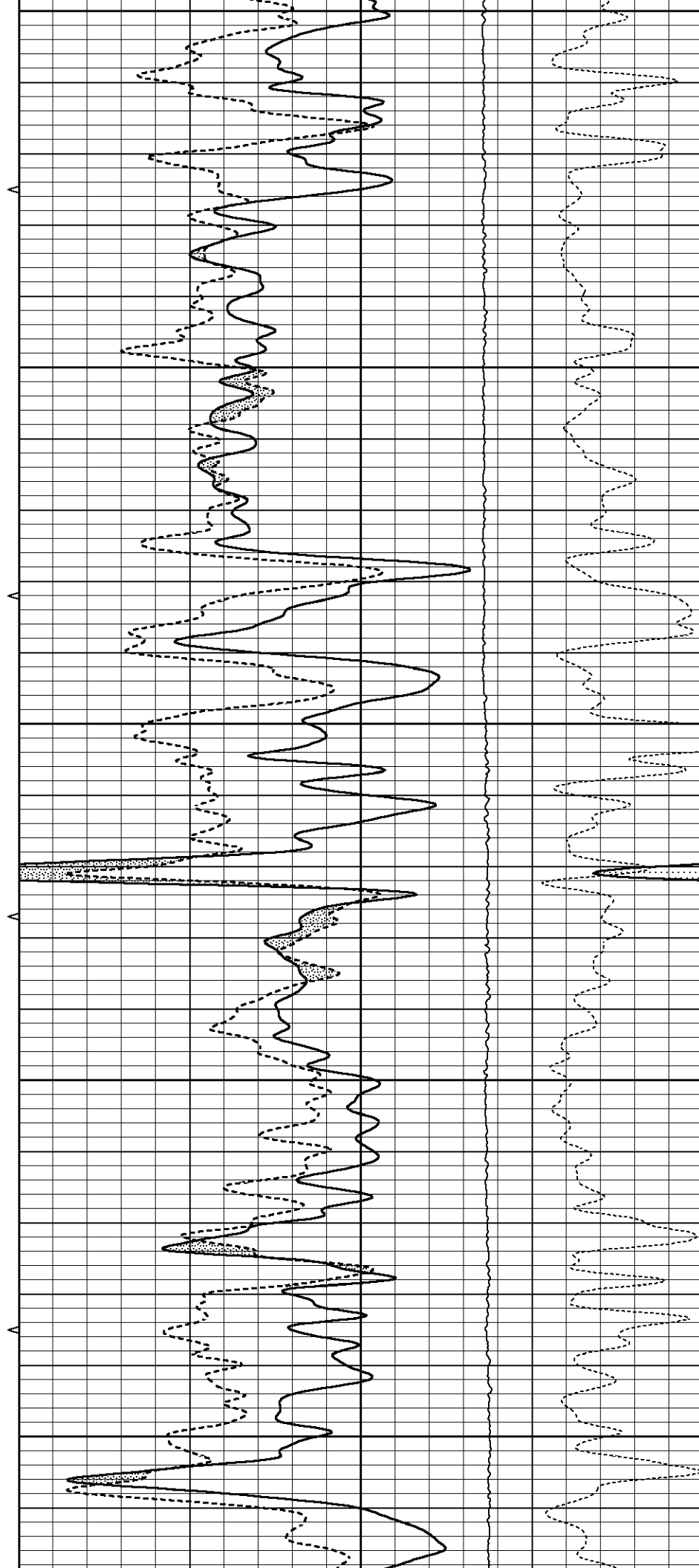
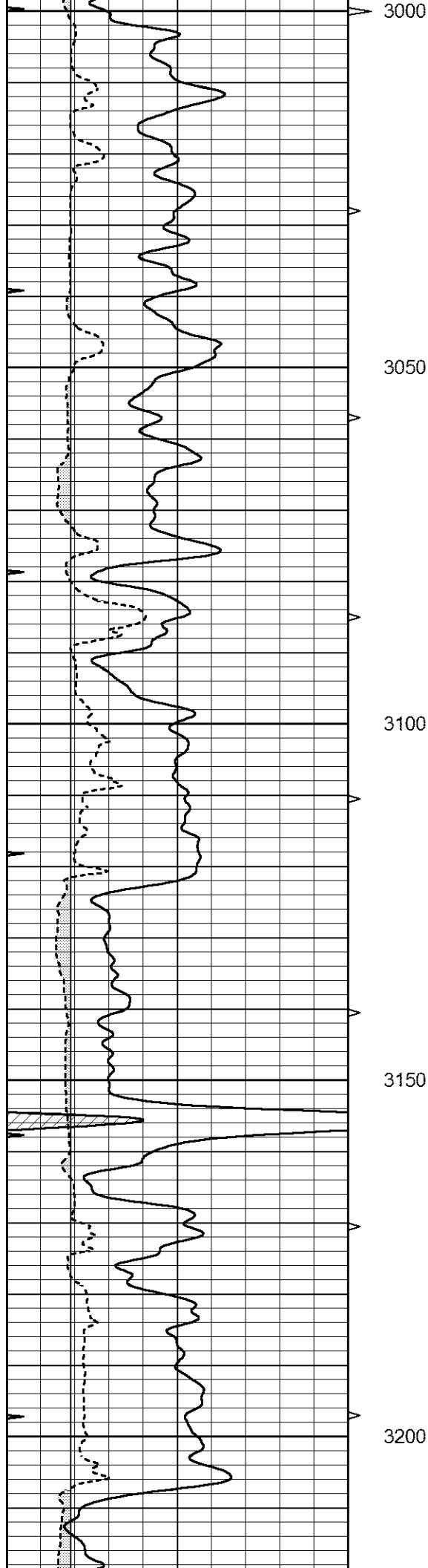
MAIN SECTION

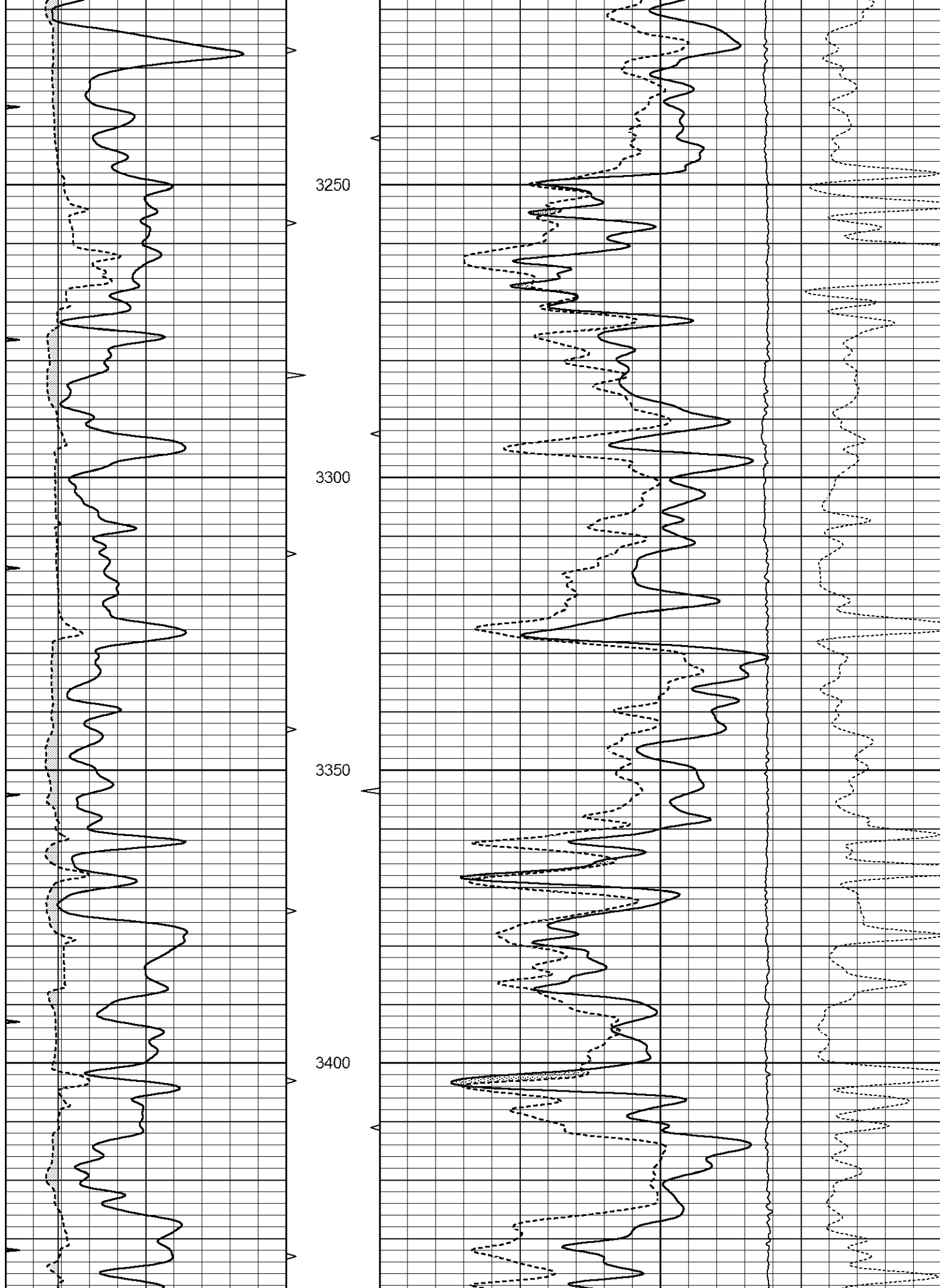
Database File	7796ddn.db
Dataset Pathname	pass3D
Presentation Format	_den_neu
Dataset Creation	Tue Nov 21 04:33:34 2023
Charted by	Depth in Feet scaled 1:240

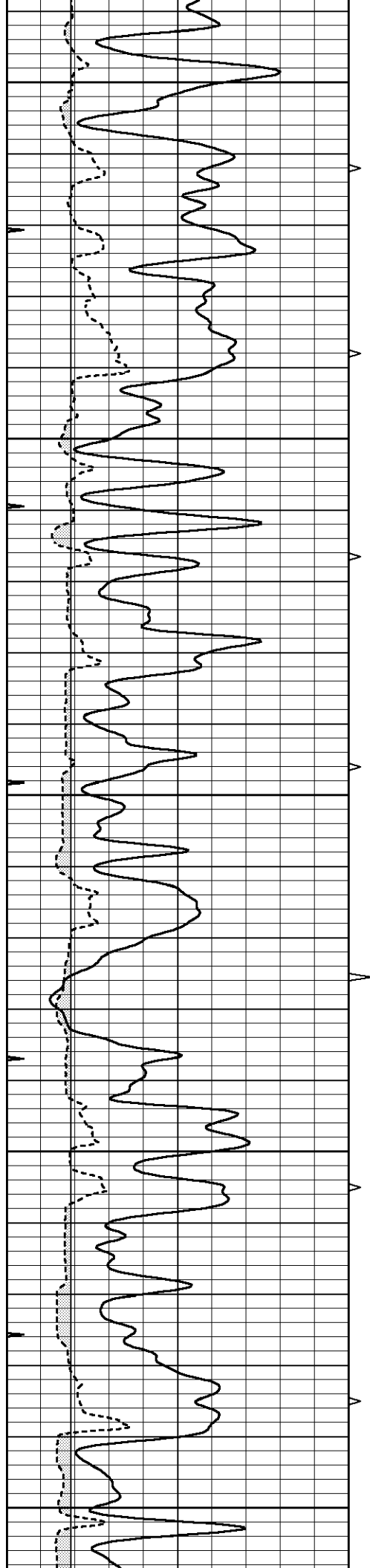
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10		0 LTEN (lb)	5000











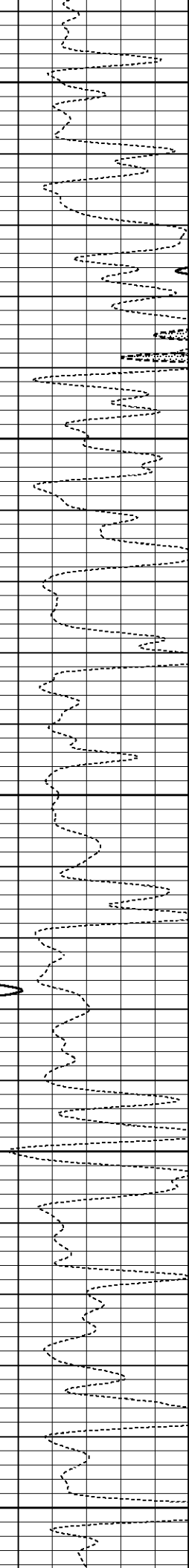
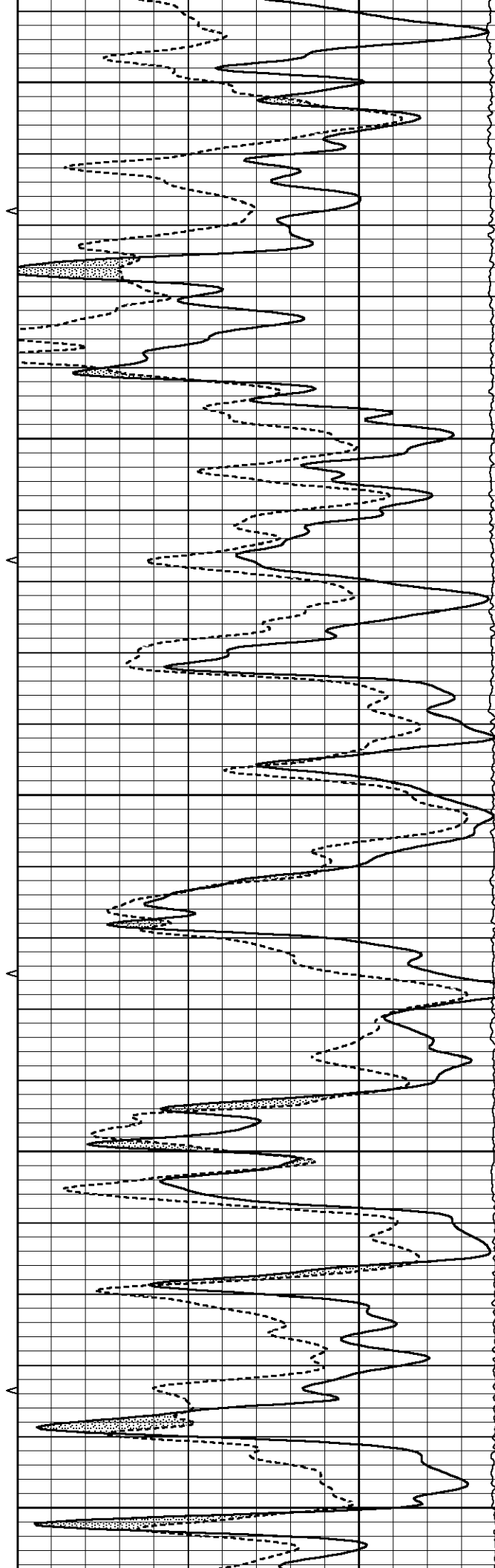
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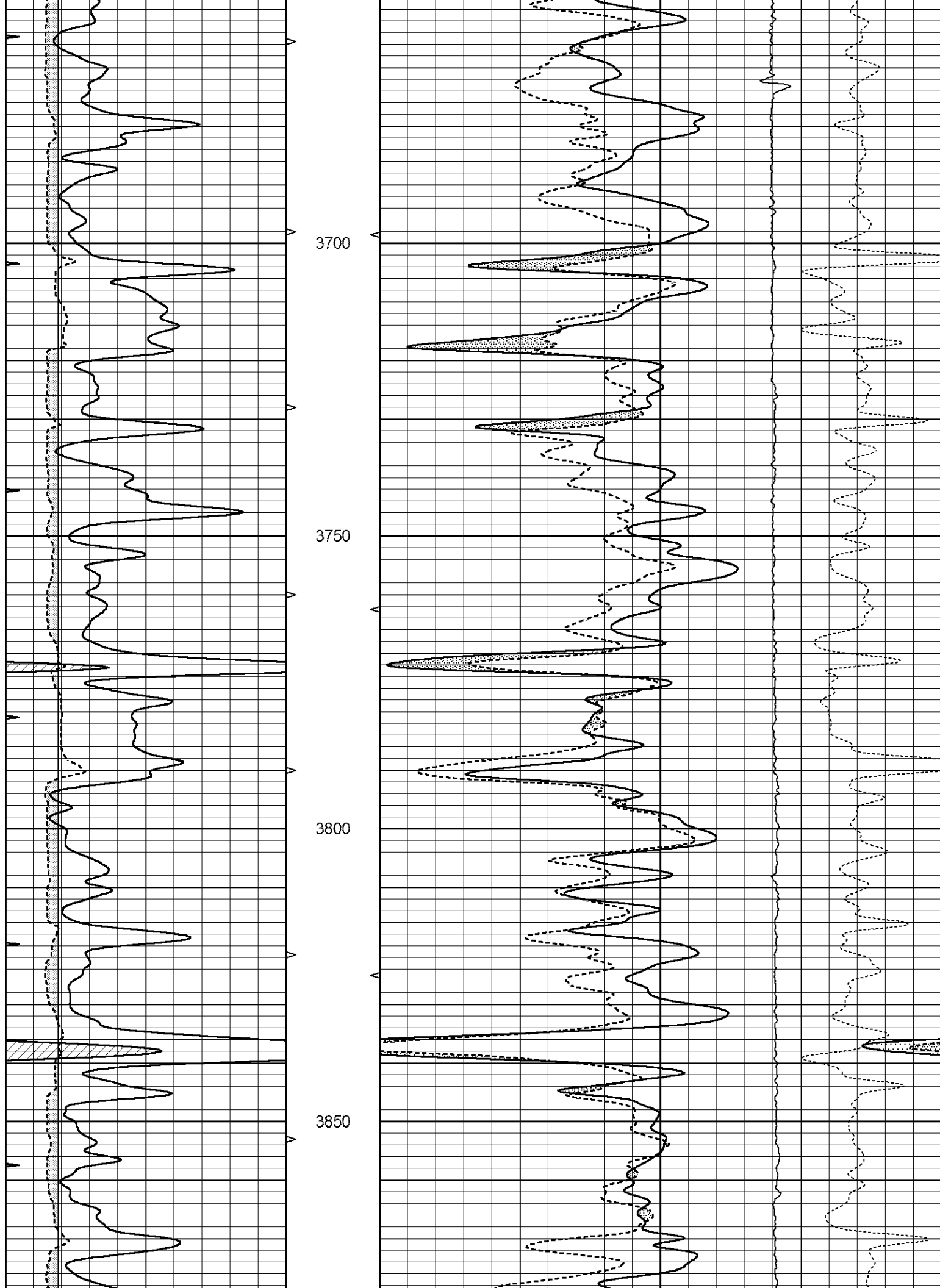
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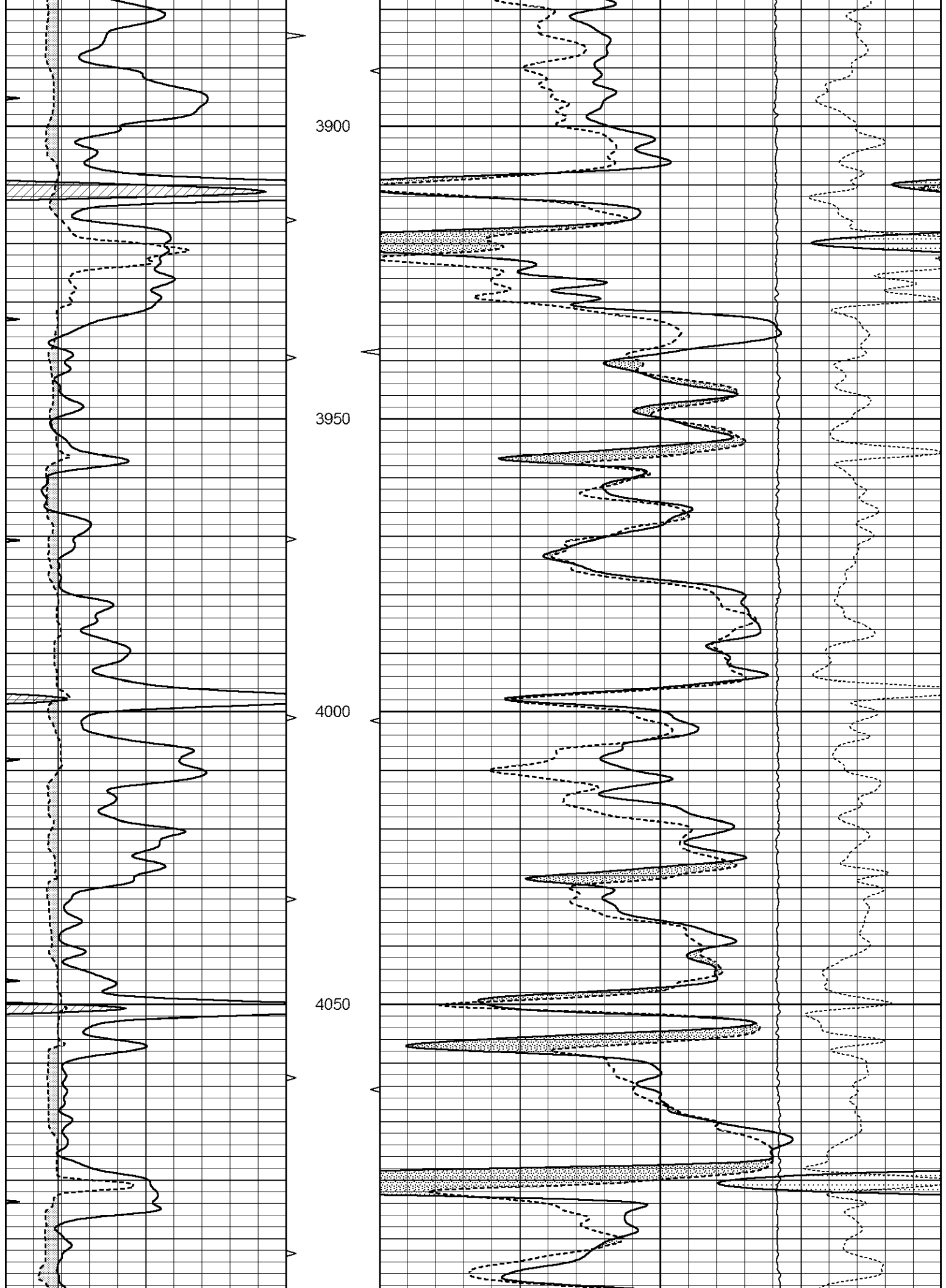
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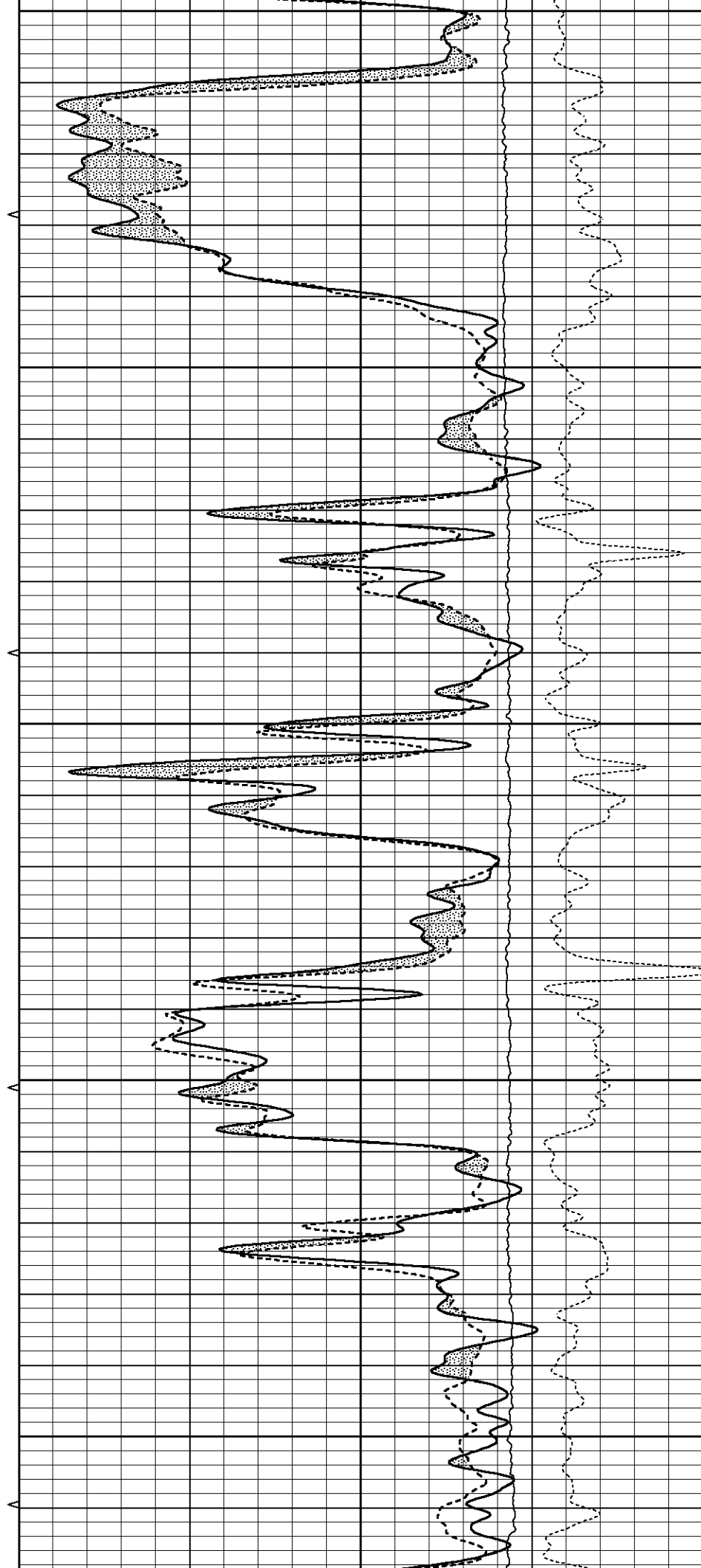
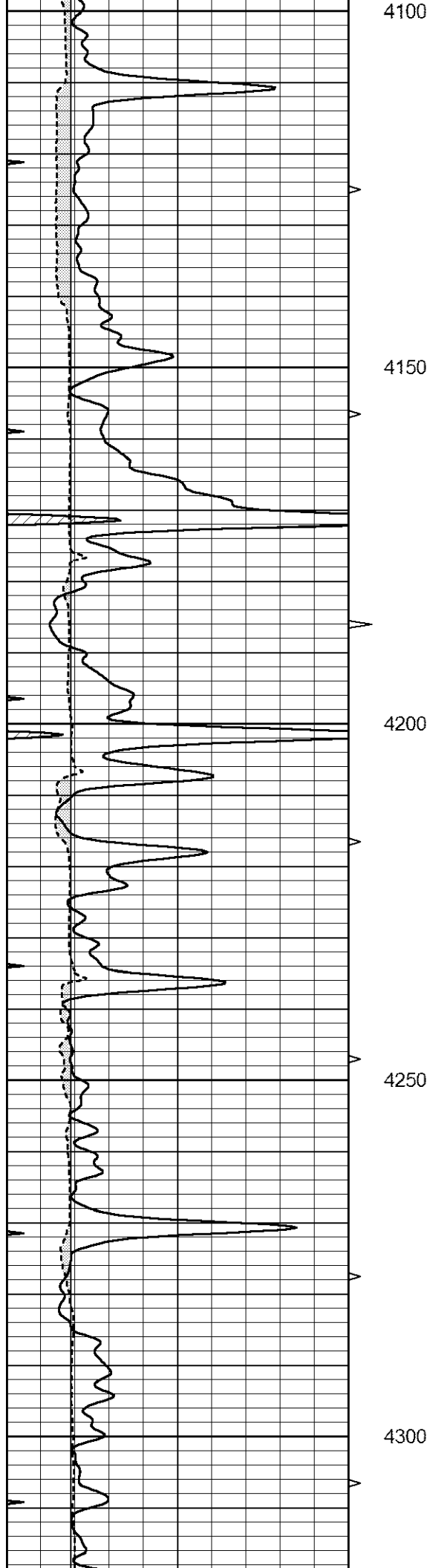
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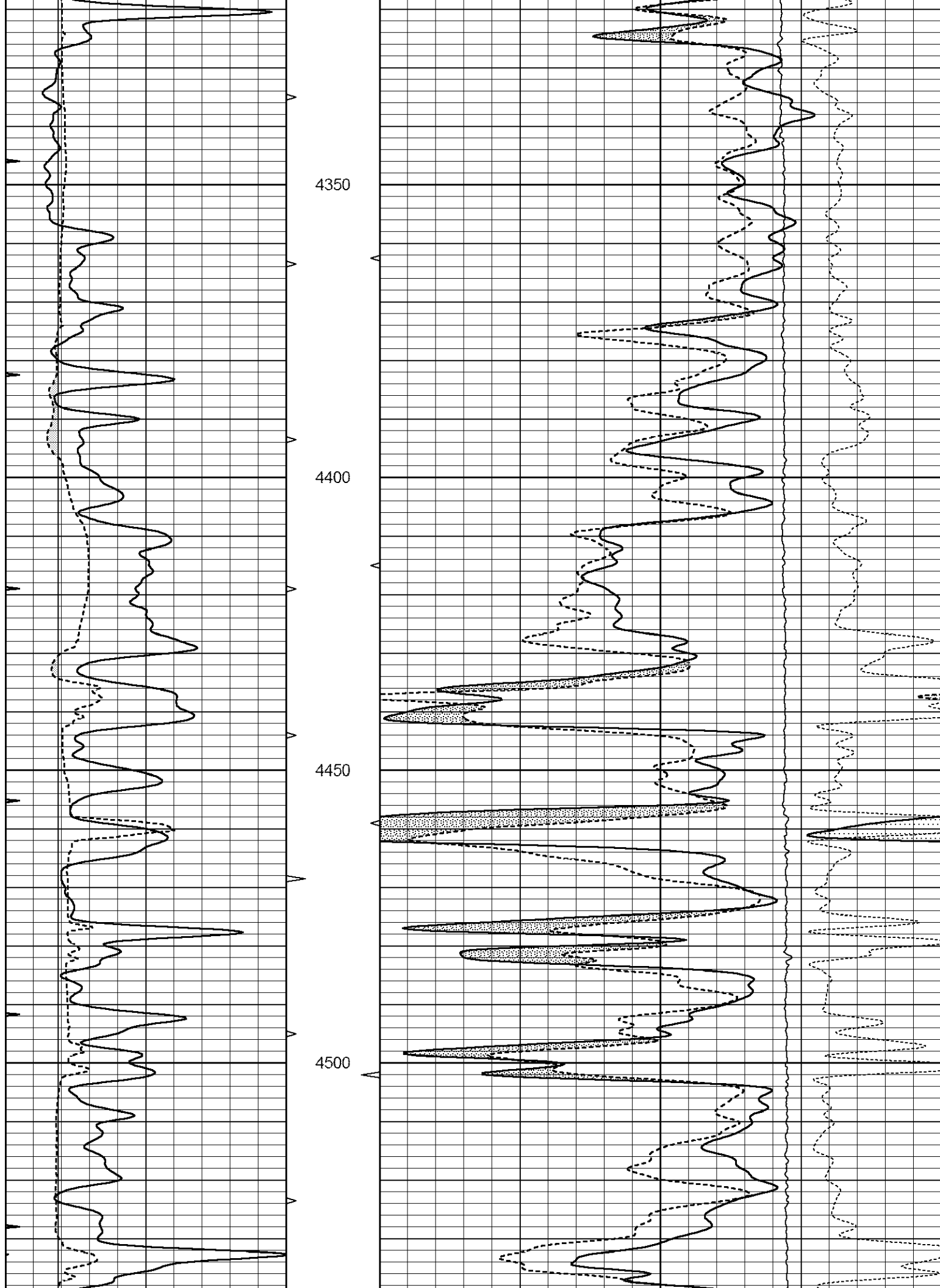
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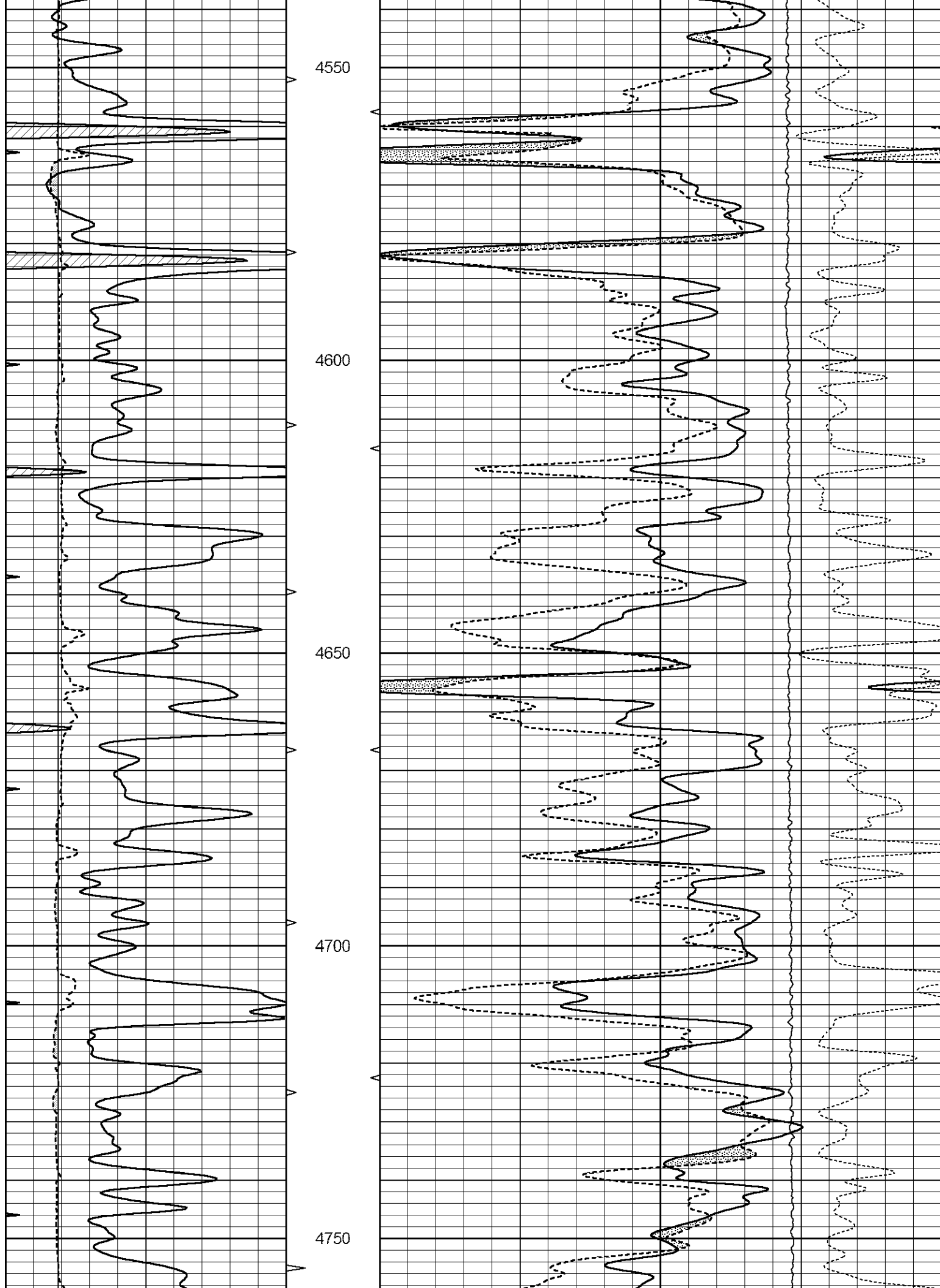


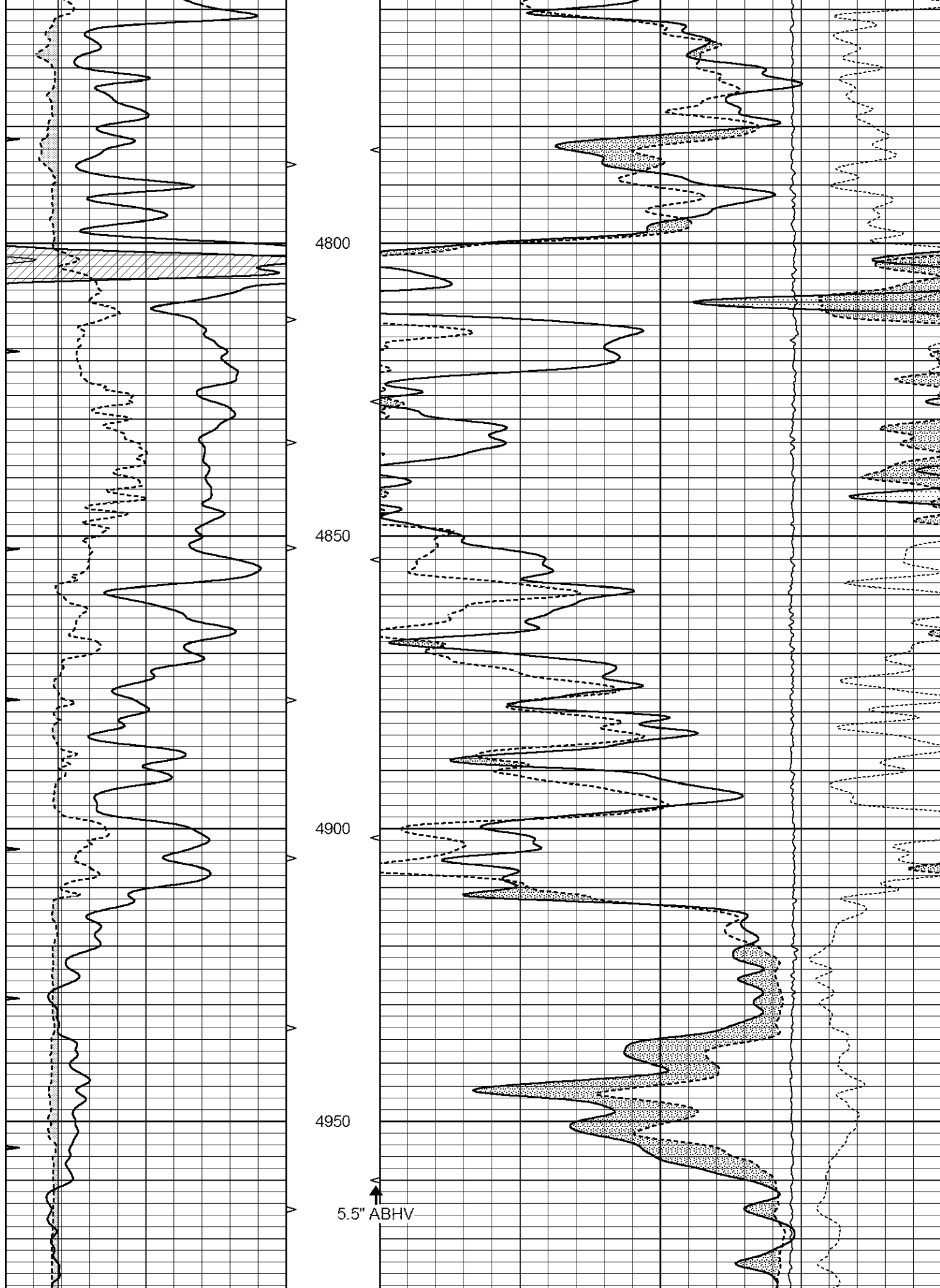


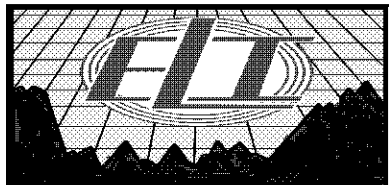
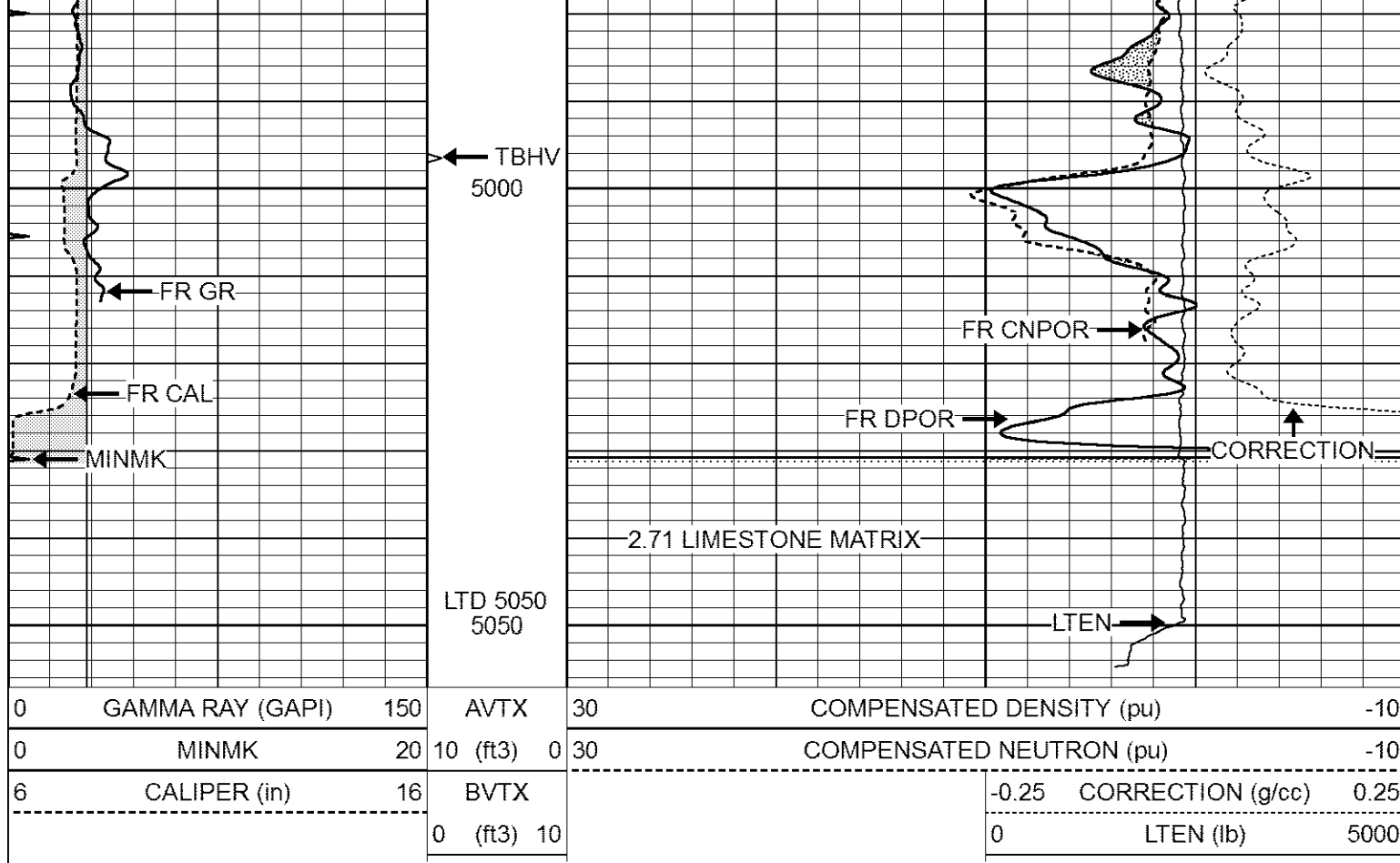








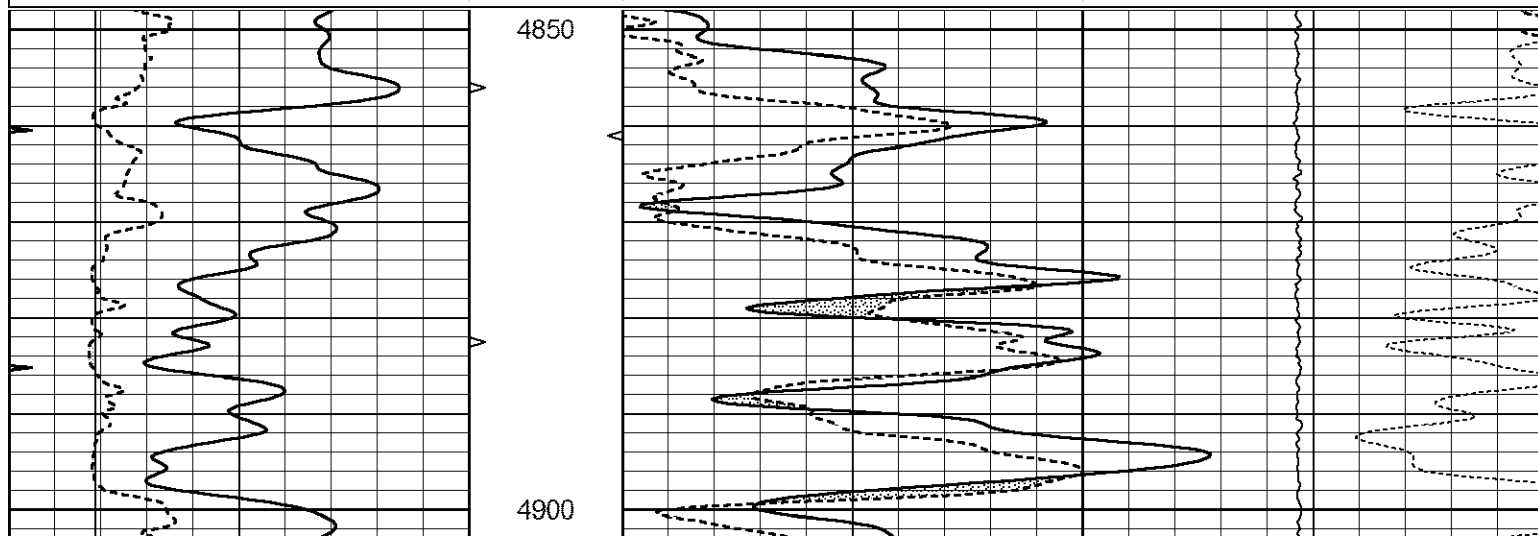


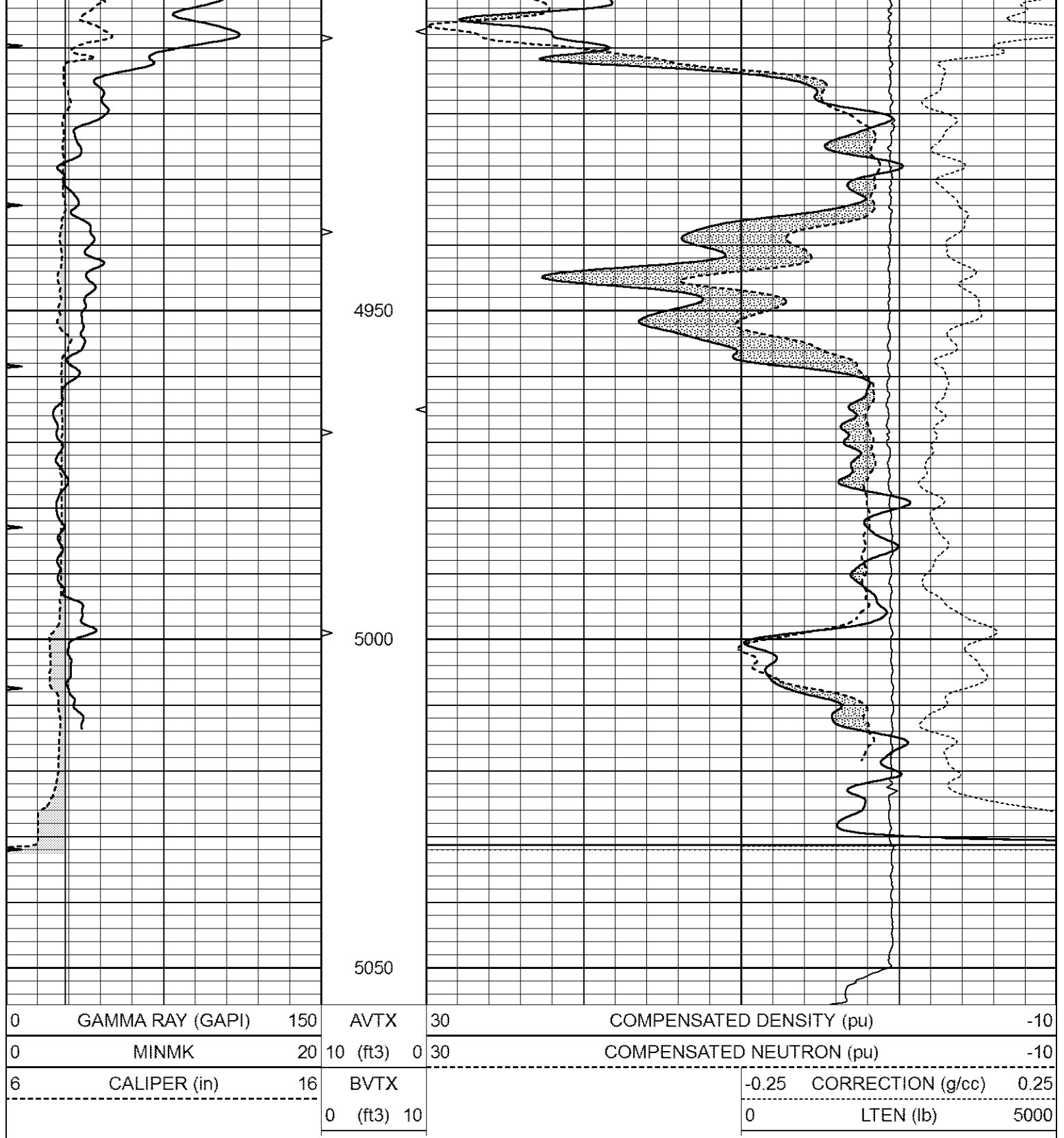


REPEAT SECTION

Database File 7796ddn.db
 Dataset Pathname pass2R
 Presentation Format _den_neu
 Dataset Creation Tue Nov 21 04:09:07 2023
 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





Calibration Report

Database File 7796ddn.db
Dataset Pathname pass3D
Dataset Creation Tue Nov 21 04:33:34 2023

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Sat Jul 29 01:57:42 2023
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	565.000	-7.400
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	530.000	-11.000
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				References			Results	
	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				Targets			Results	
	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: 003		Model: PRB	

Master Calibration		Performed Mon May 22 11:42:40 2023			
	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1512.3	7465.7	2749.0	2519.6	cps
Window 2	1398.8	6705.7	2507.3	2313.8	cps
Window 3	1289.2	5259.5	2124.1	2009.6	cps
Window 4	351.1	351.6	351.8	353.2	cps
Long Space	0.0	5306.9	1108.5	915.0	cps
Short Space	3.3	2239.9	1441.2	1212.0	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 44.3	Rib Slope	: 0.975	Density/Spine Ratio	: 0.541
Spine Angle	: 74.3	Spine Slope	: 3.551	Spine Intercept	: -18.8

Before Survey Verification		Performed Wed Dec 31 18:00:00 1969			
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification

Performed Wed Dec 31 18:00:00 1969

Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

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: 46001
Tool Model: Probe1
Performed: Thu Apr 20 09:55:57 2023

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.4300 GAPI/cps