

COMPENSATED
DENSITY/NEUTRON
PE/LOG

Company	WOOLSEY OPERATING COMPANY, LLC.		
Well	KERSEY #1		
Field	WILDCAT		
County	KIOWA		
State	KANSAS		
Company	WOOLSEY OPERATING COMPANY, LLC.		
Well	KERSEY #1		
Field	WILDCAT		
County	KIOWA		
State	KANSAS		
Location:	API # : 15-097-21846-00-00		
	130' FSL & 2520' FEL		
	SEC 29 TWP 28S RGE 18W		
Permanent Datum	GROUND LEVEL	Elevation	2270
Log Measured From	KELLY BUSHING 12' A.G.L.		
Drilling Measured From	KELLY BUSHING		
		Other Services	DIL SONIC
			Elevation
			K.B. 2282
			D.F. 2280
			G.L. 2270
Date	01/12/19		
Run Number	ONE		
Depth Driller	5027		
Depth Logger	5030		
Bottom Logged Interval	5010		
Top Log Interval	2400		
Casing Driller	8 5/8" @ 502		
Casing Logger	502		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3/70		
pH / Fluid Loss	9.0/10.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.6@62		
Rmt @ Meas. Temp	1.2@62		
Rmc @ Meas. Temp	1.92@62		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.80@125		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	125F		
Equipment Number	1523		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	BLAKE MILLER		

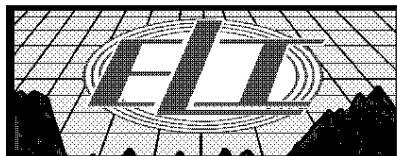
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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, HAYS, KS. (785) 628-6395

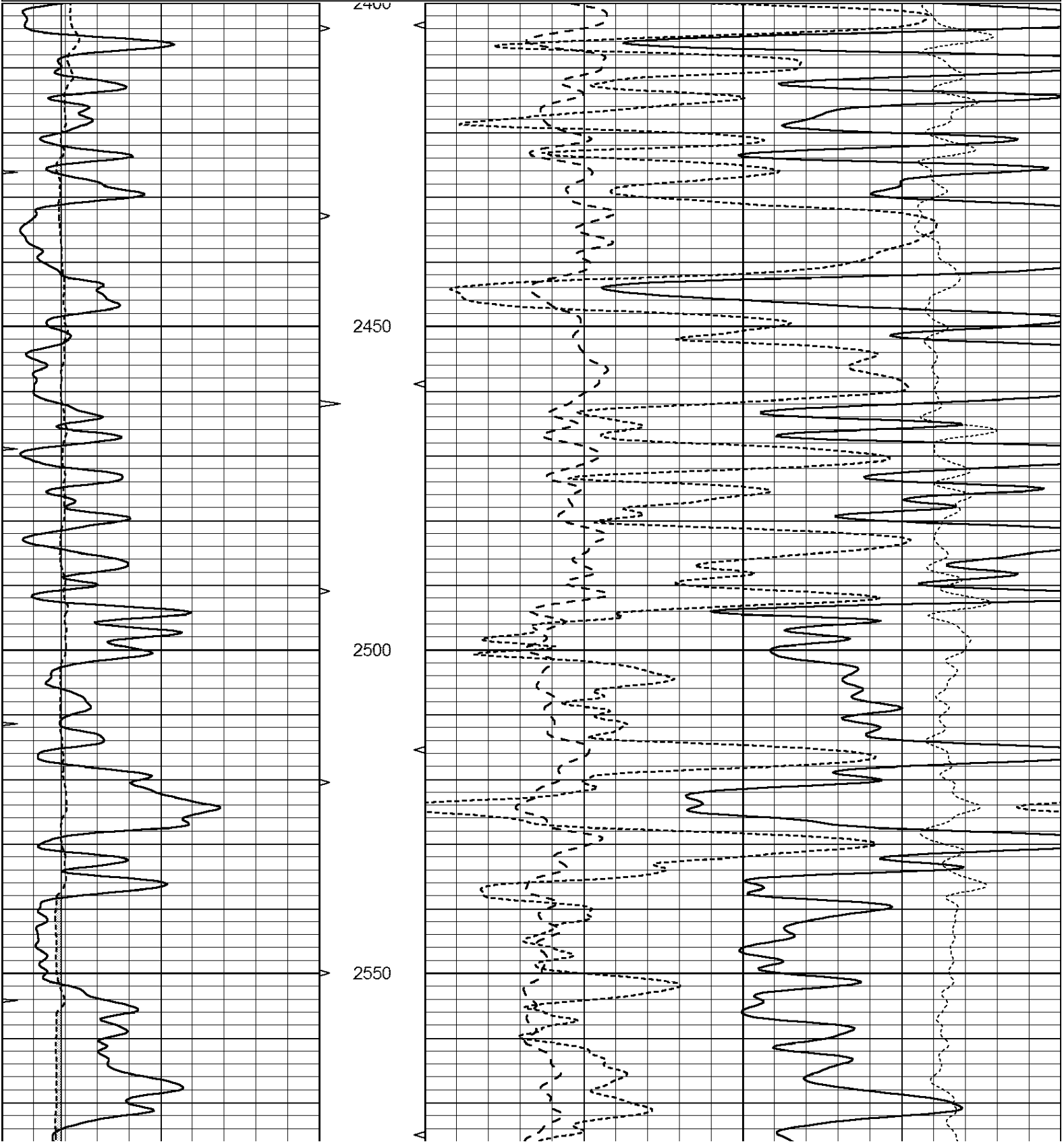
DIRECTIONS
HIGHWAY INTERSECTION WEST OF GREENSBURG
2 SOUTH, 3/4 EAST, NORTH INTO.

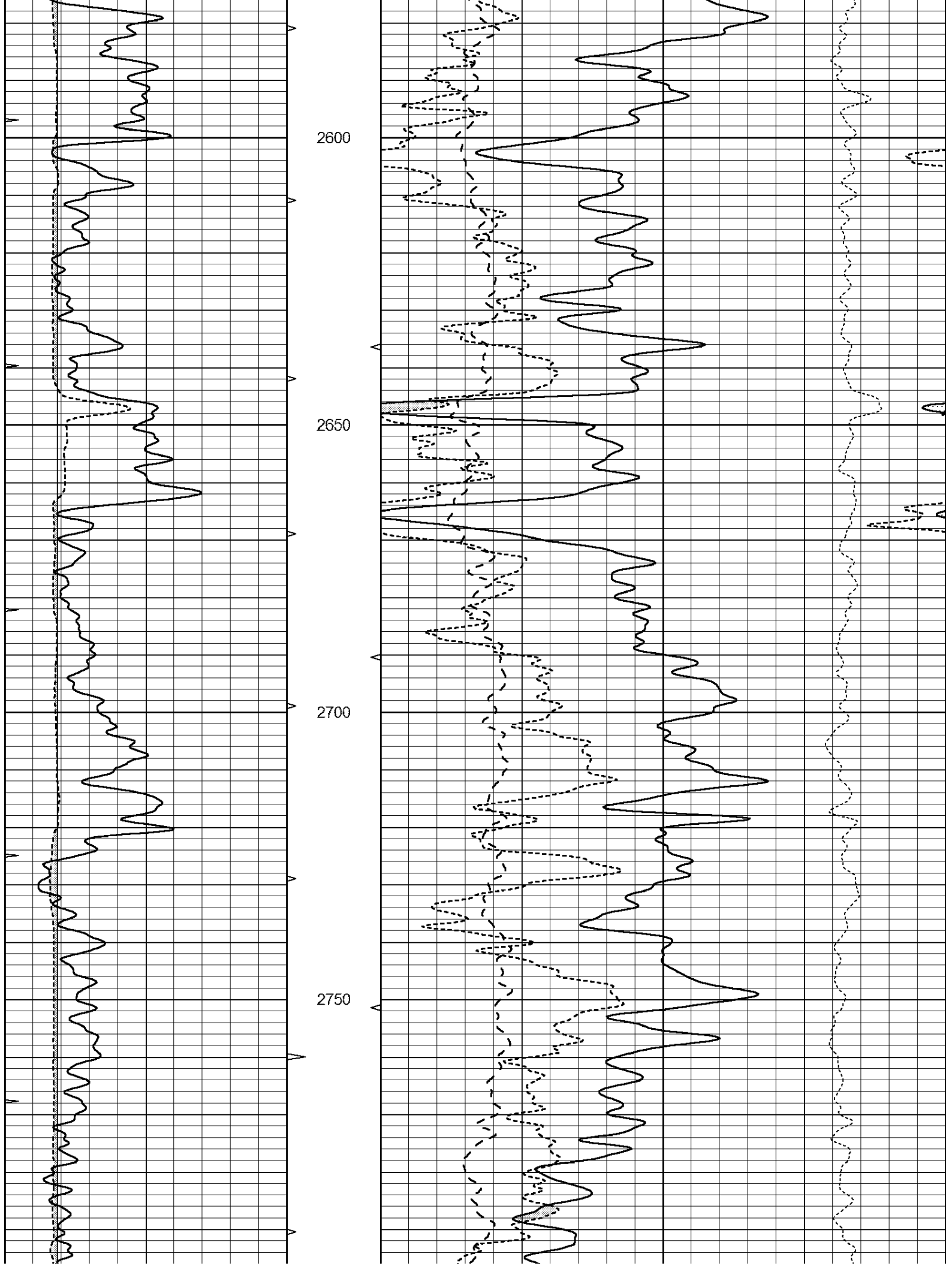


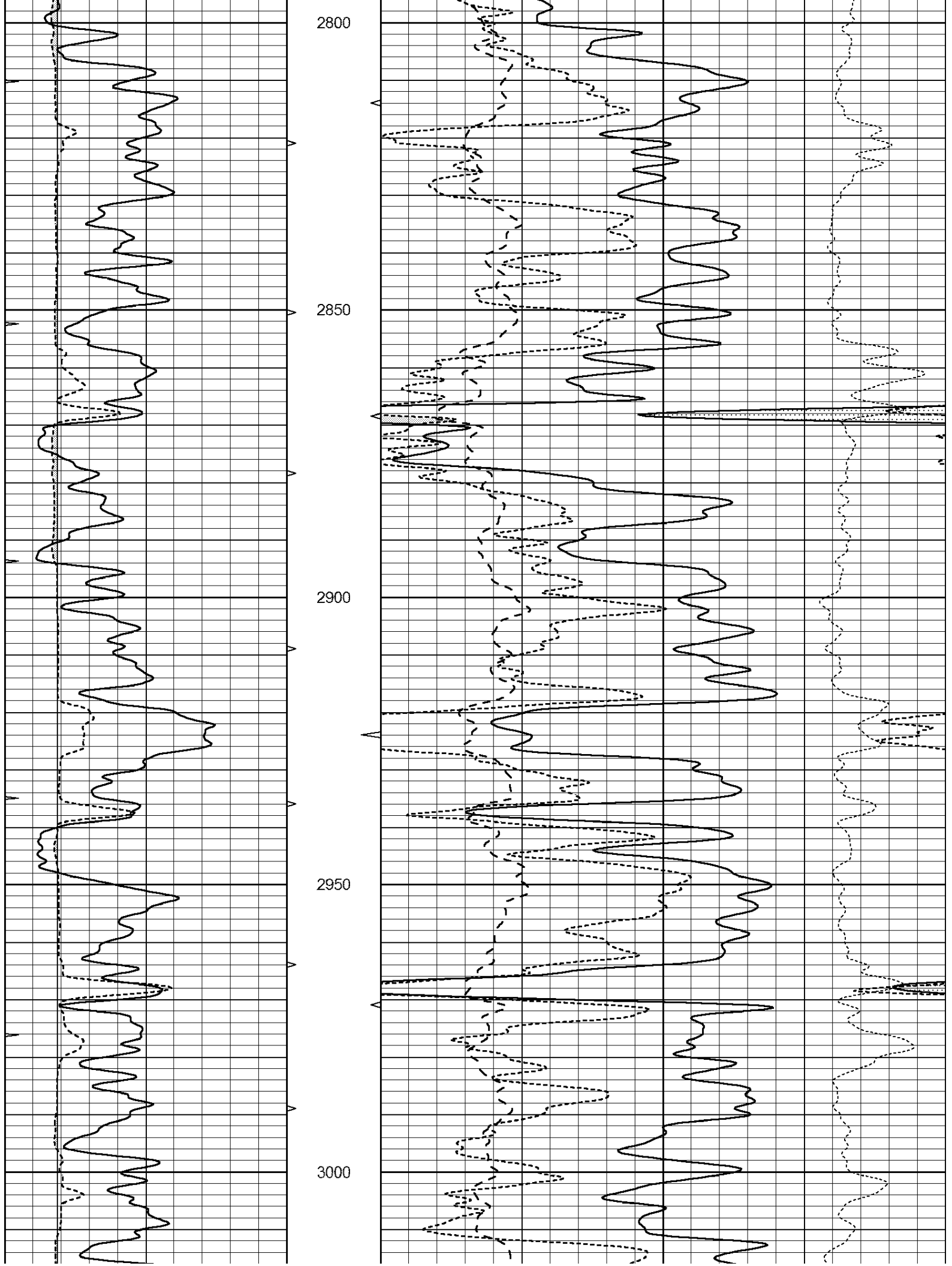
MAIN PASS

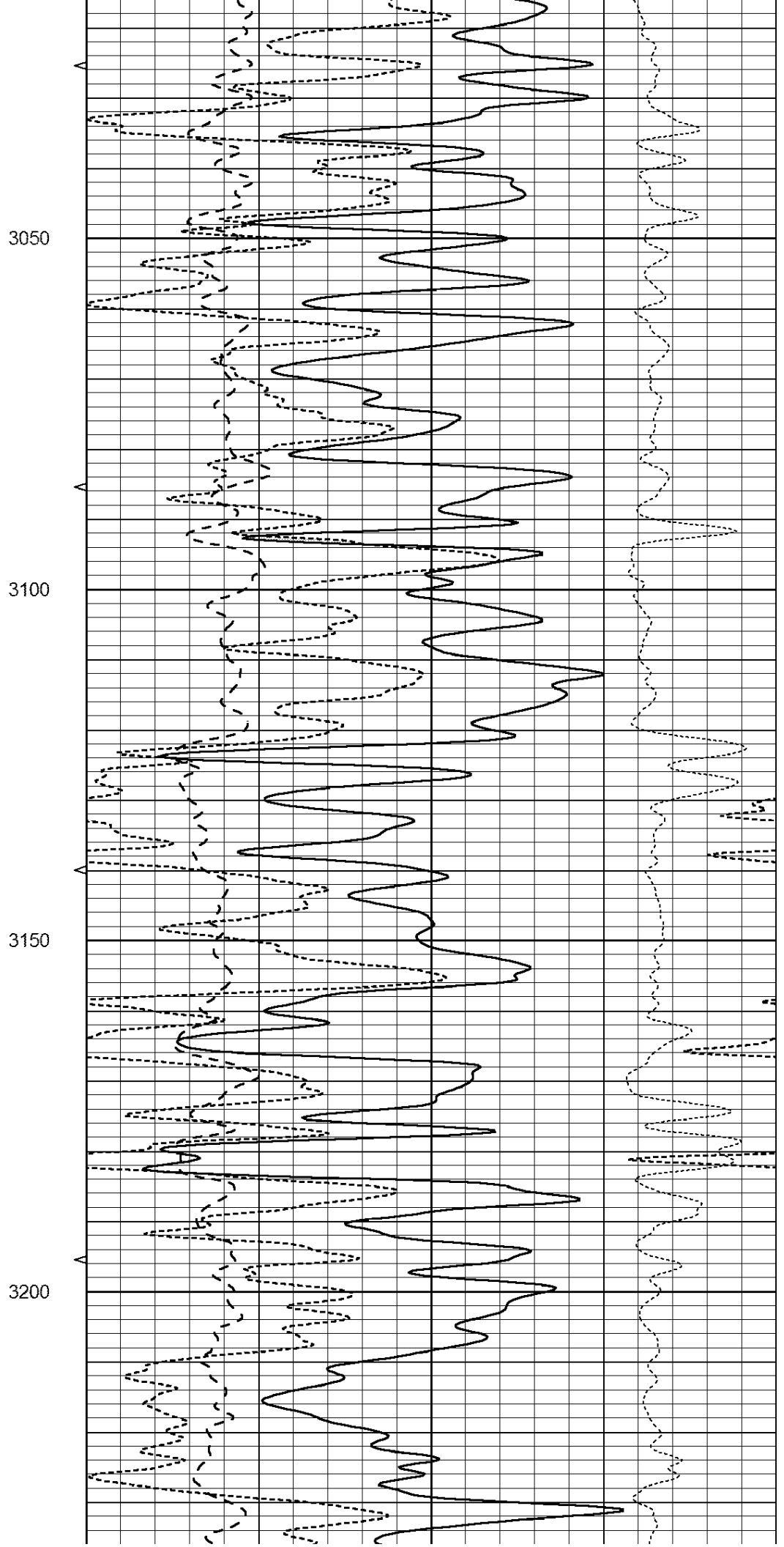
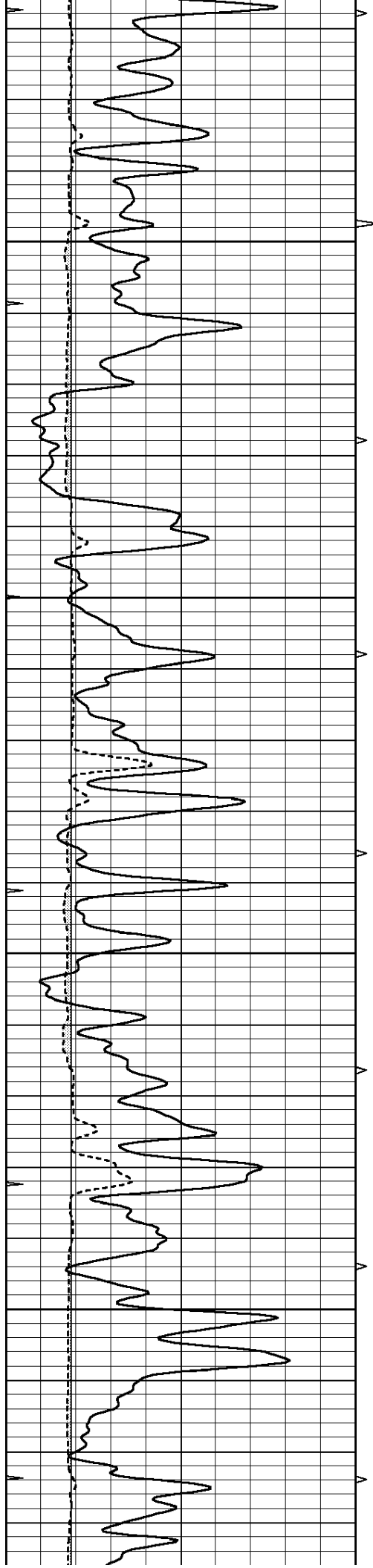
Database File: 3476pe.db
Dataset Pathname: pass3.1
Presentation Format: _ldt_neu
Dataset Creation: Sat Jan 12 09:05:56 2019
Charted by: Depth in Feet scaled 1:240

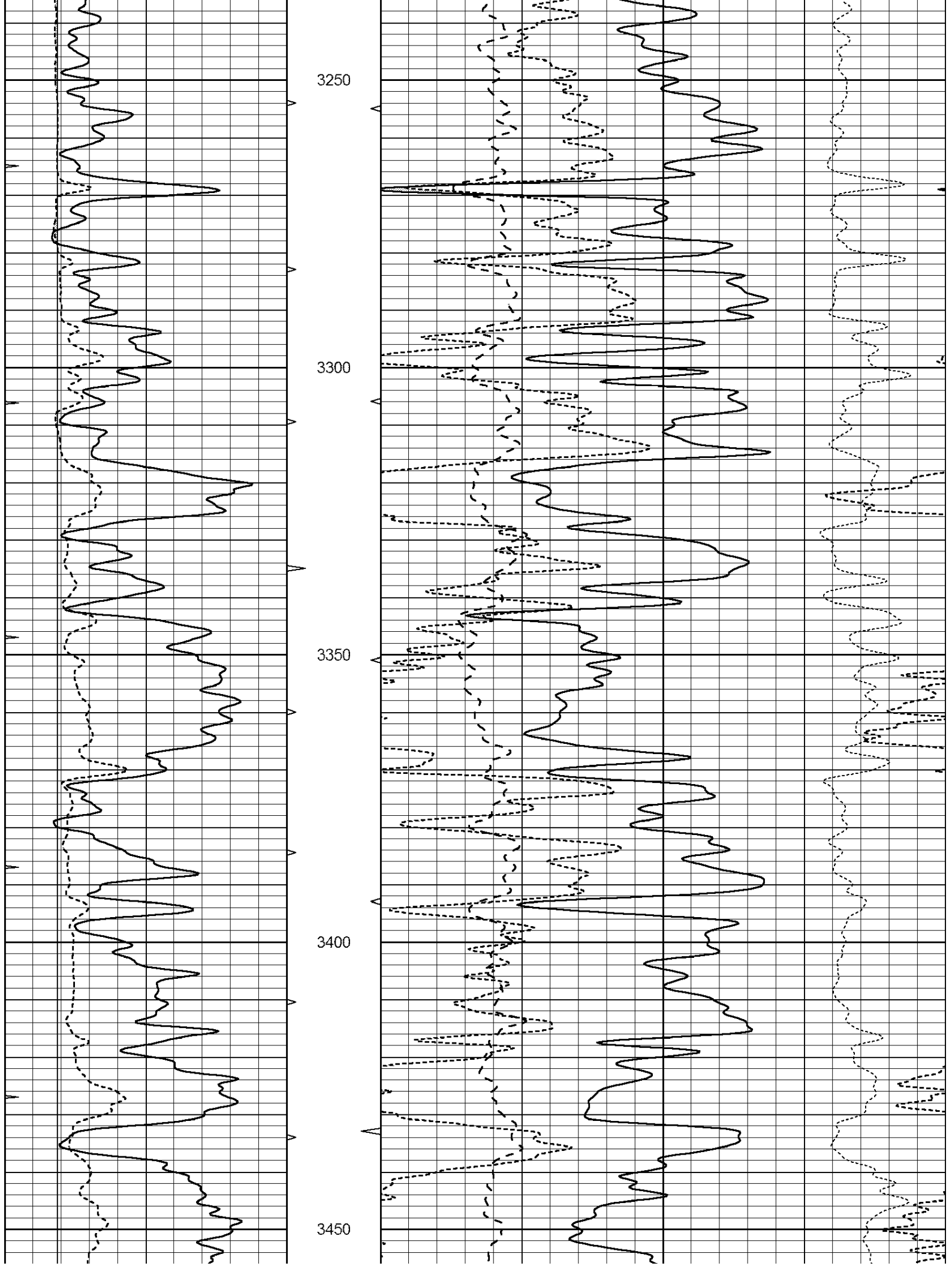
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		

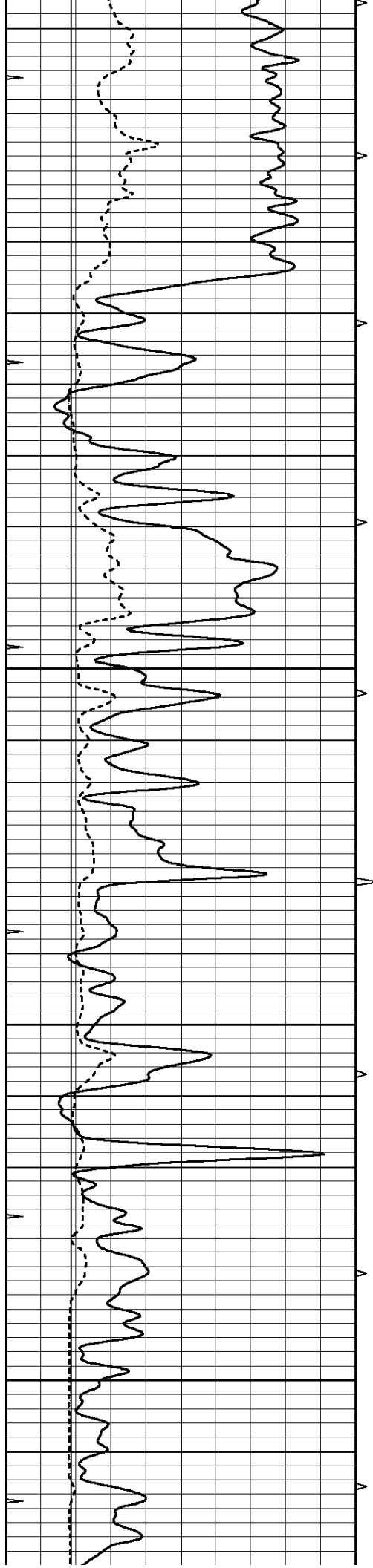










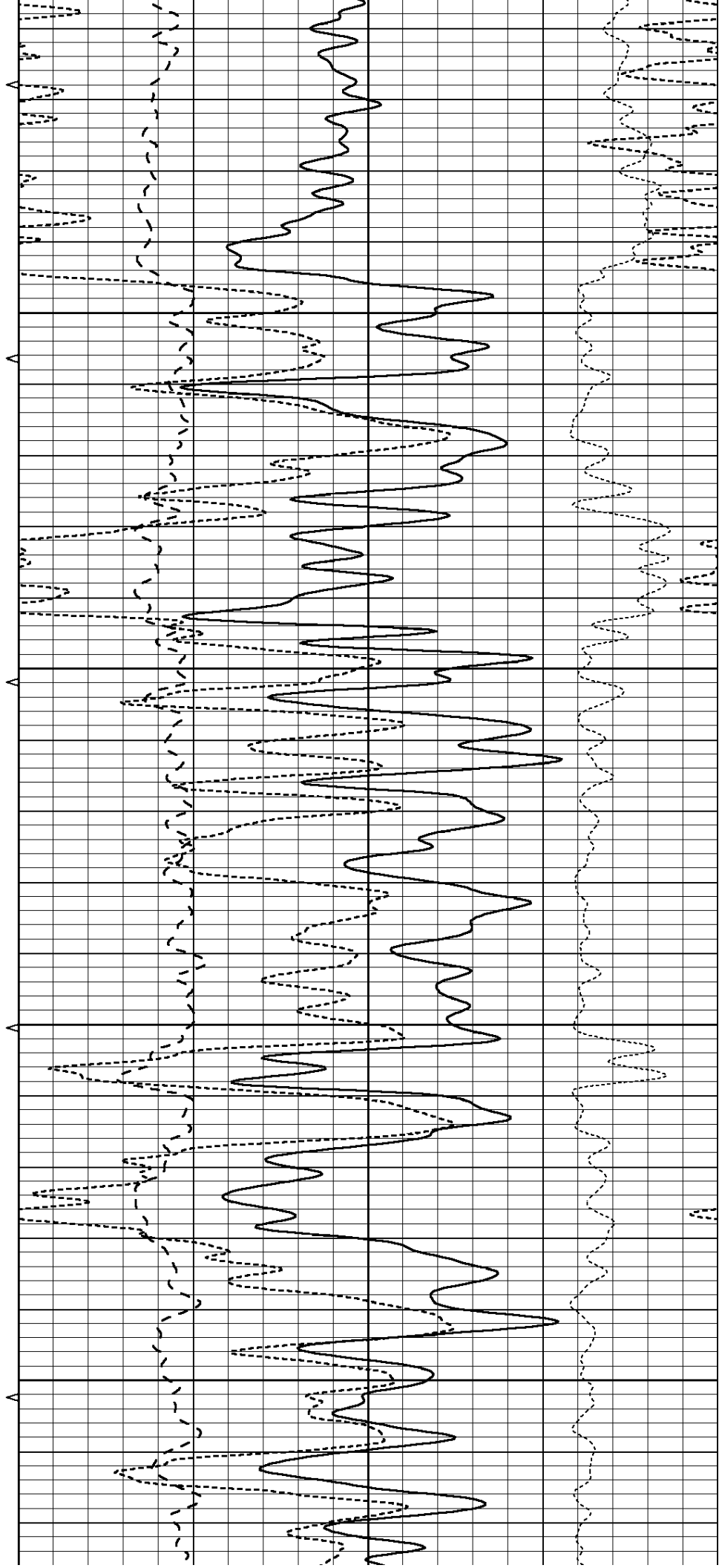


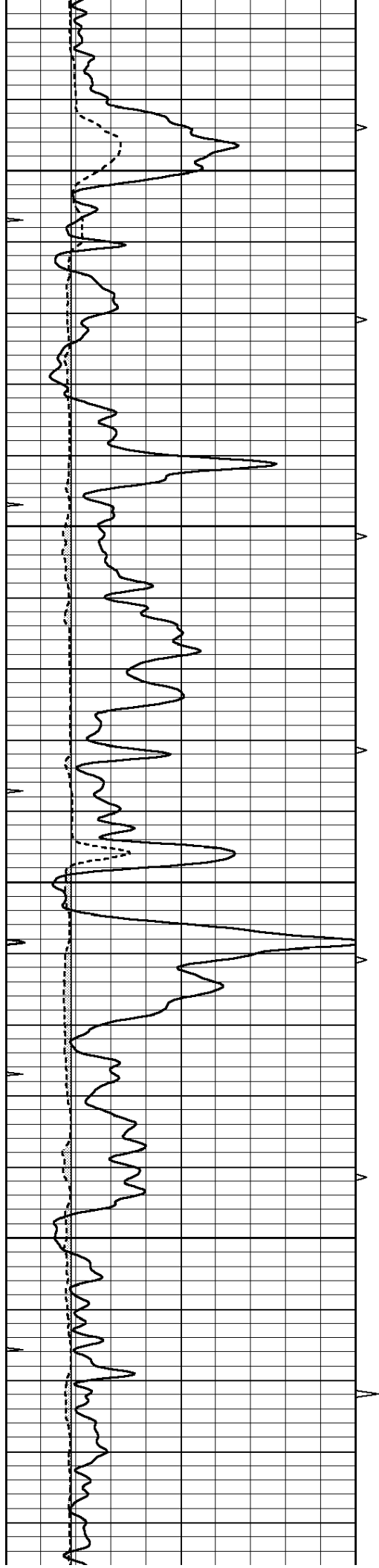
3500

3550

3600

3650



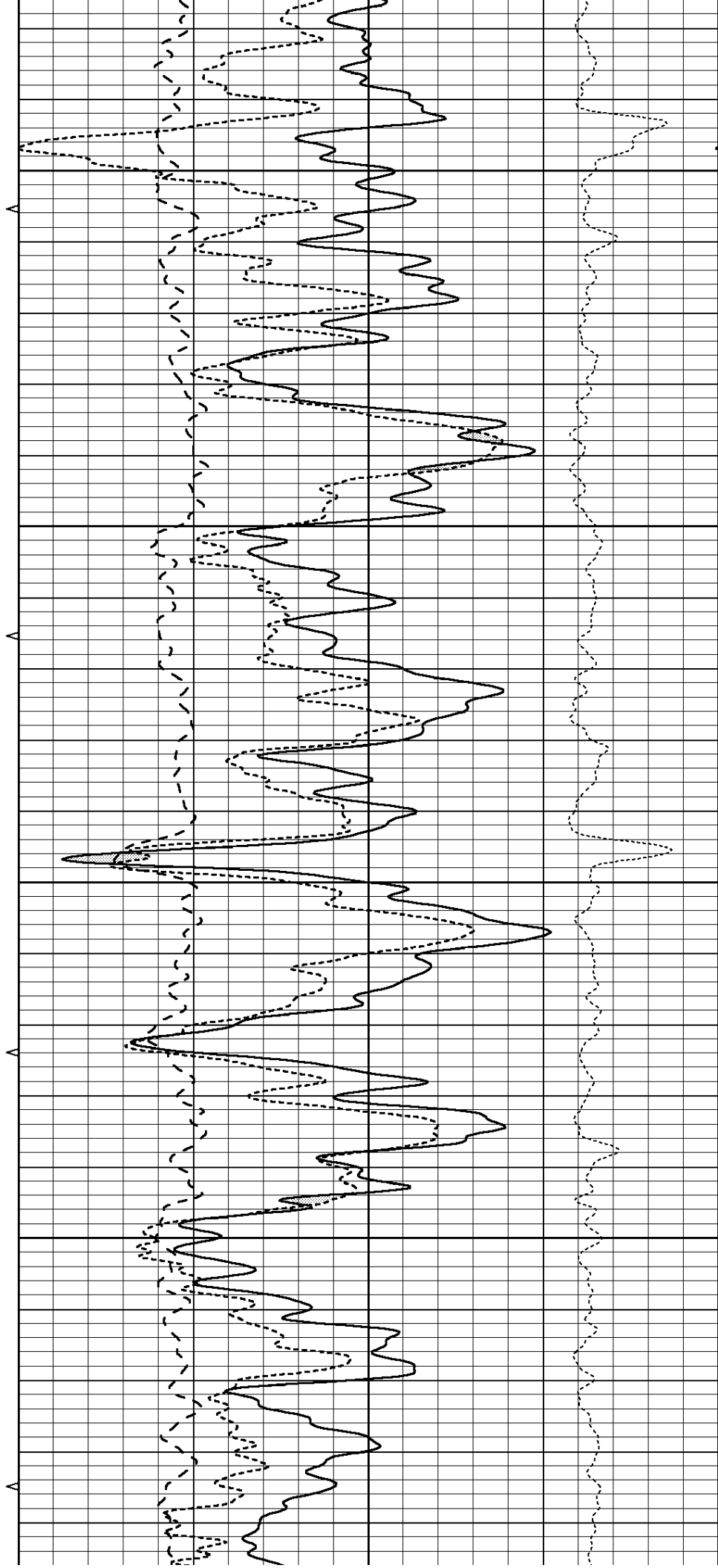


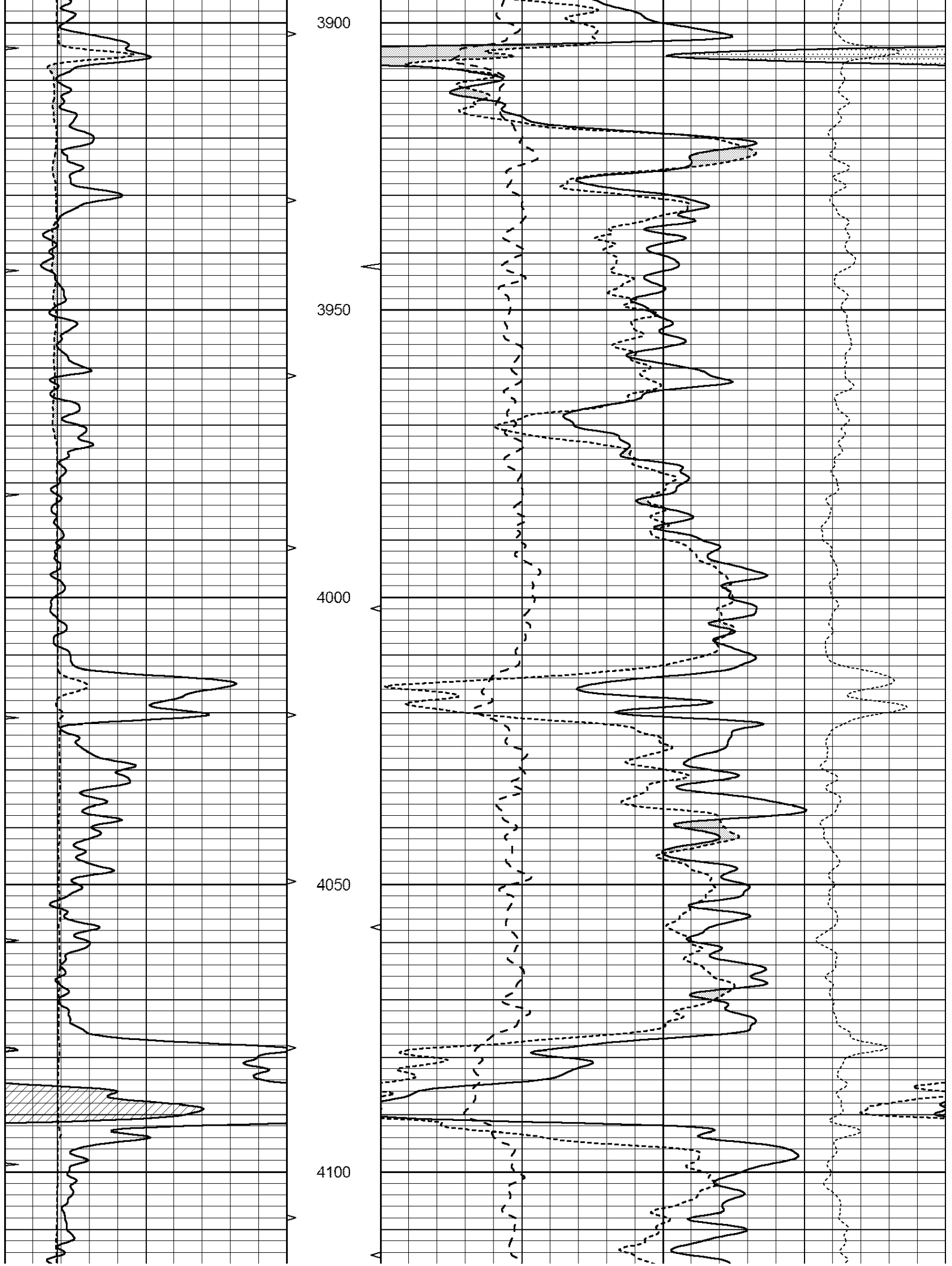
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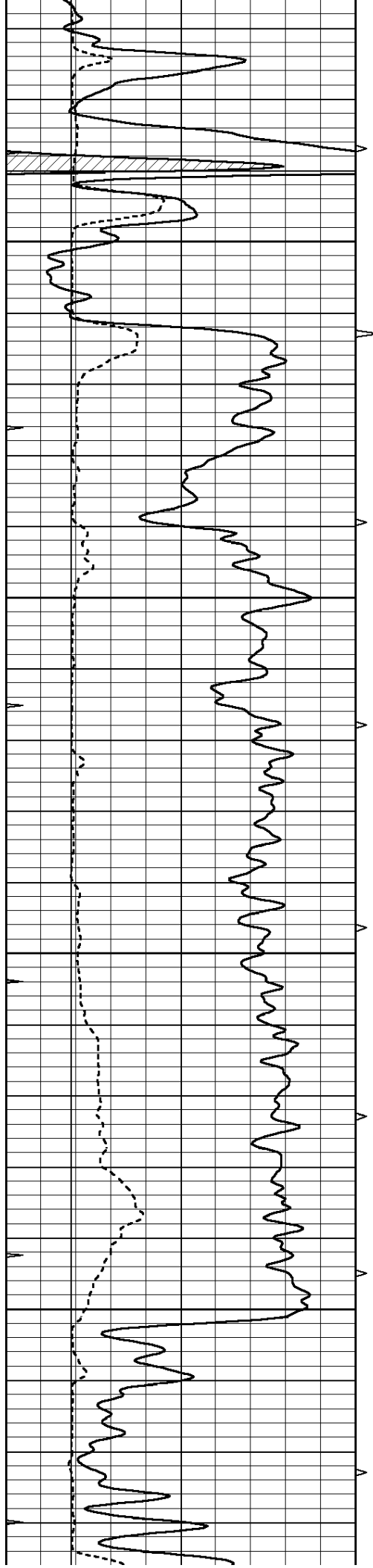
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3850





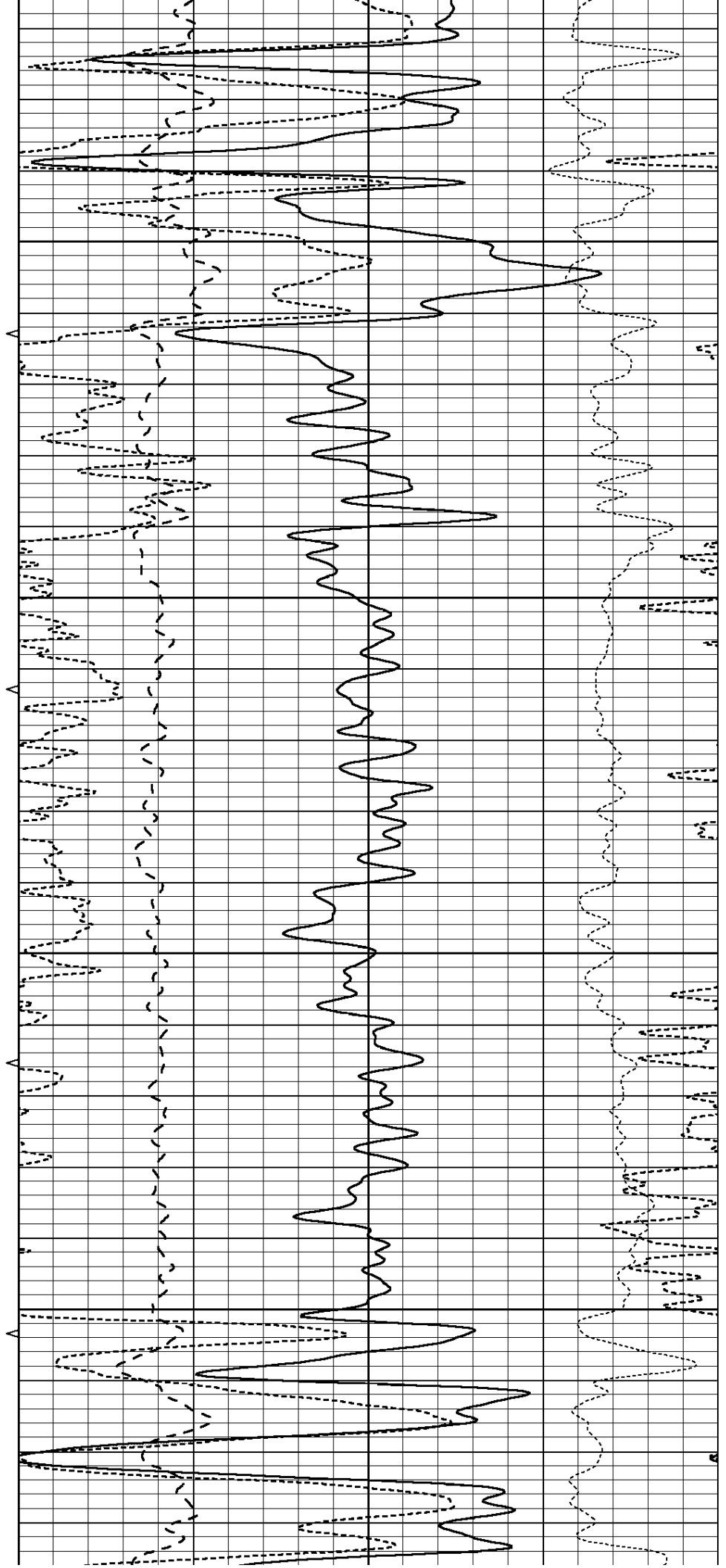


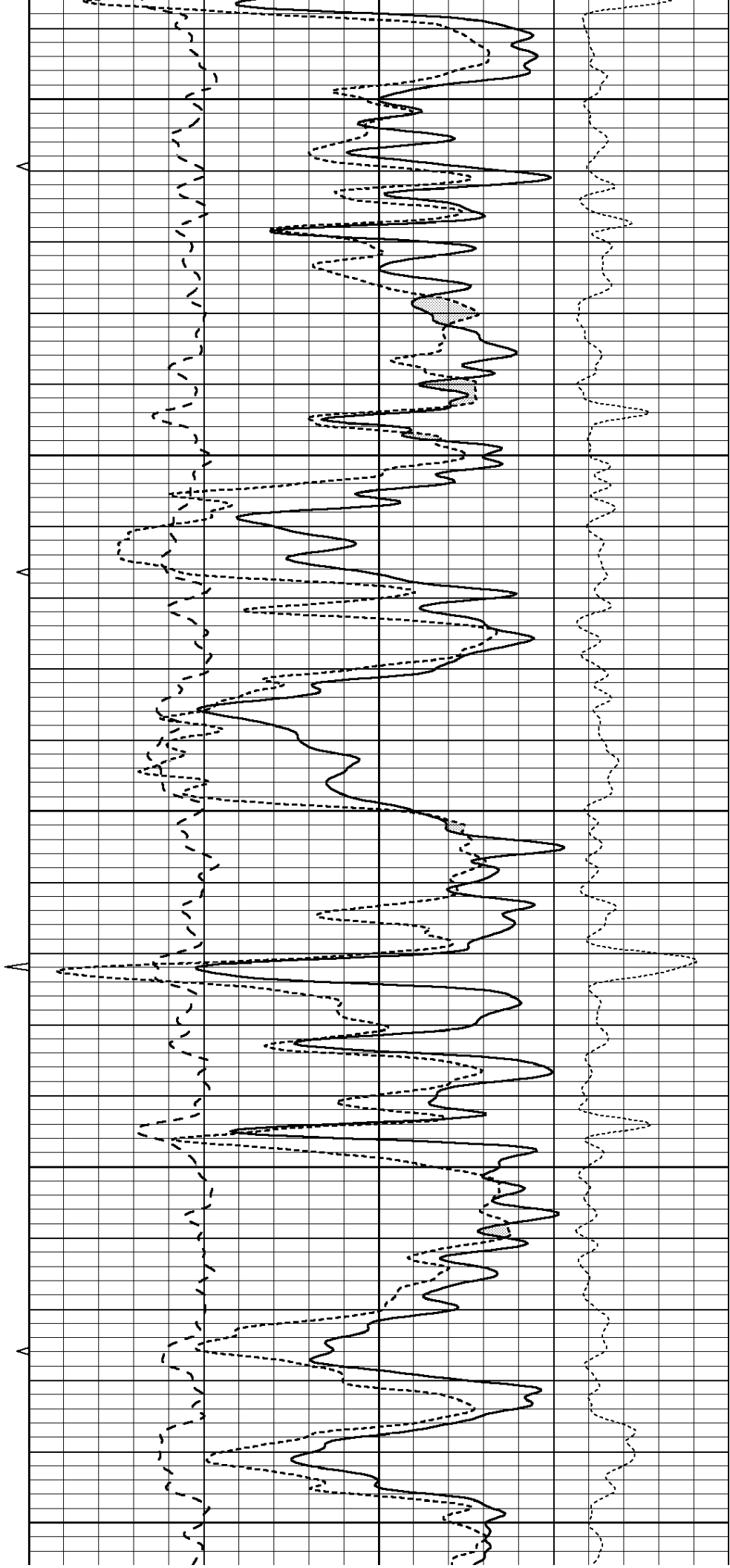
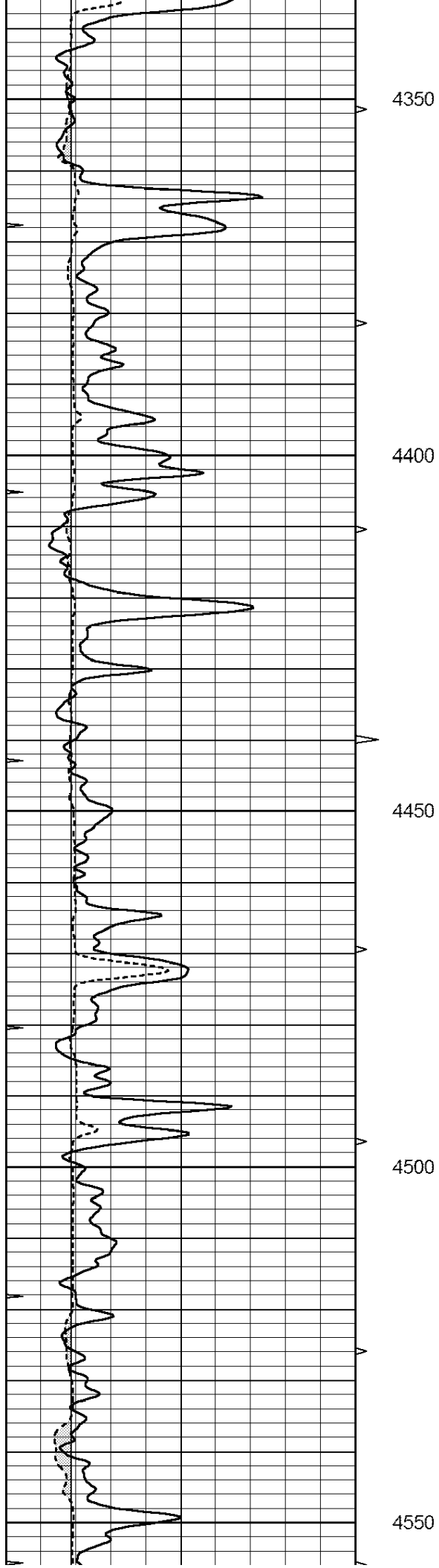
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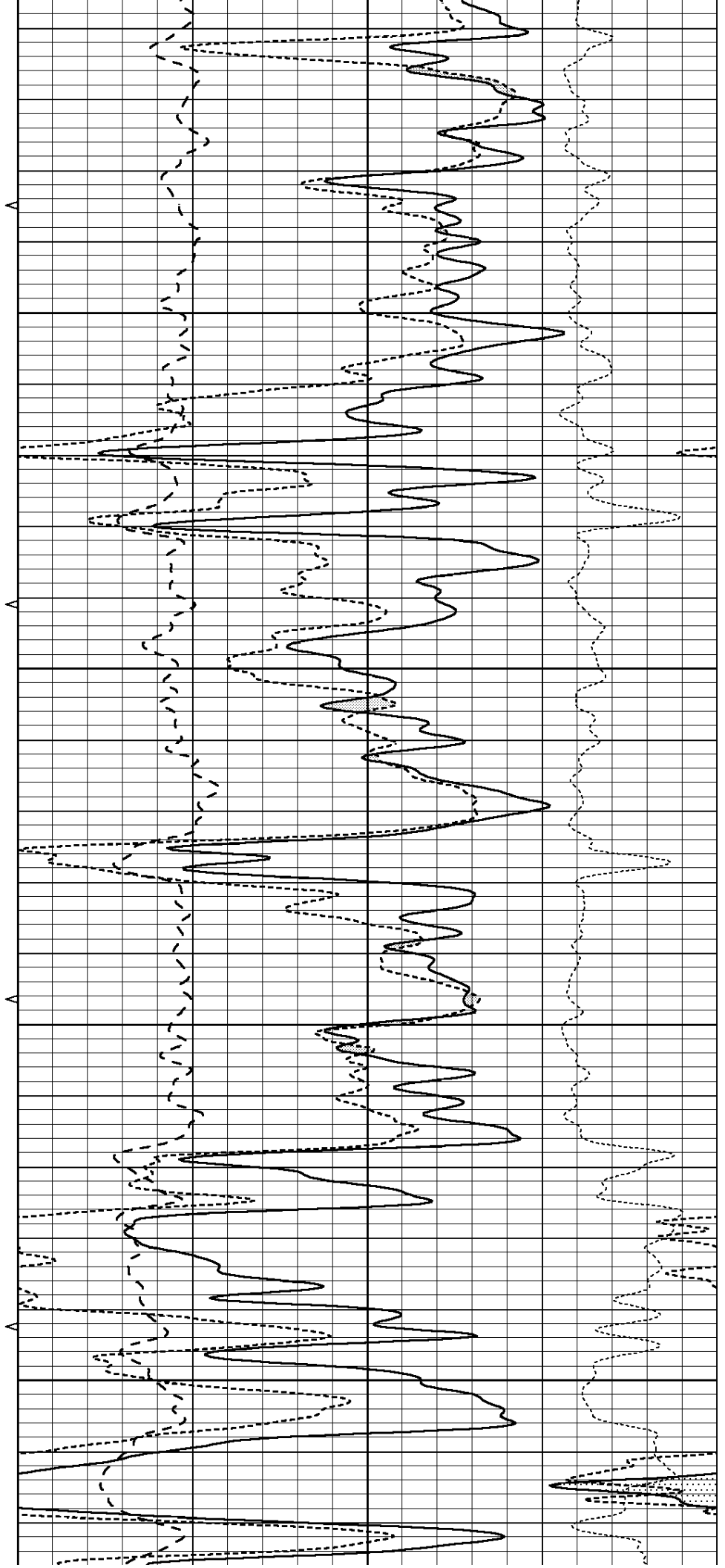
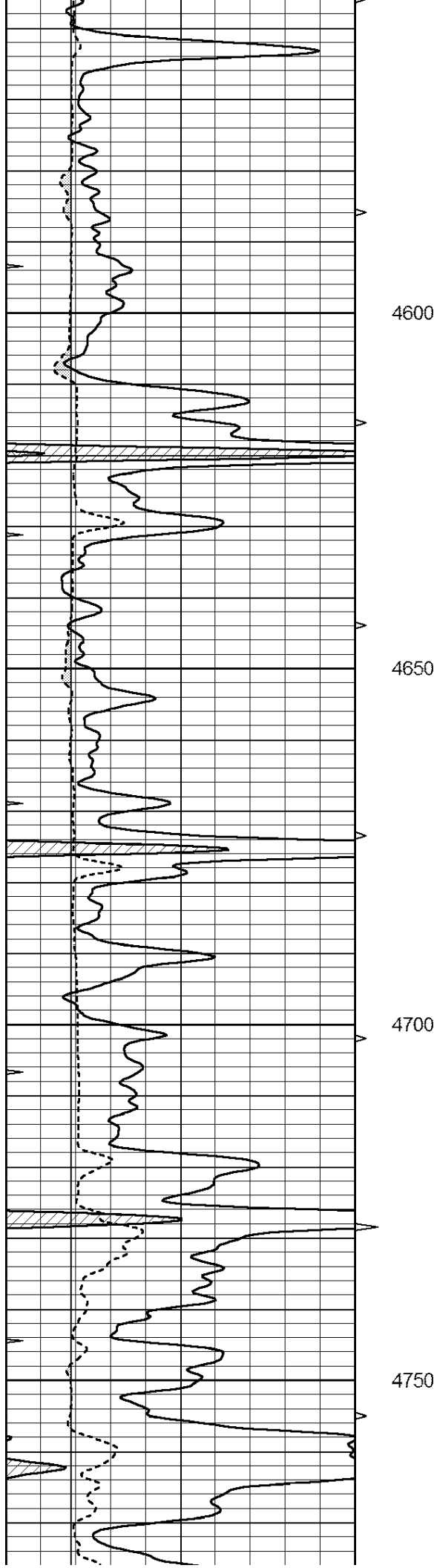
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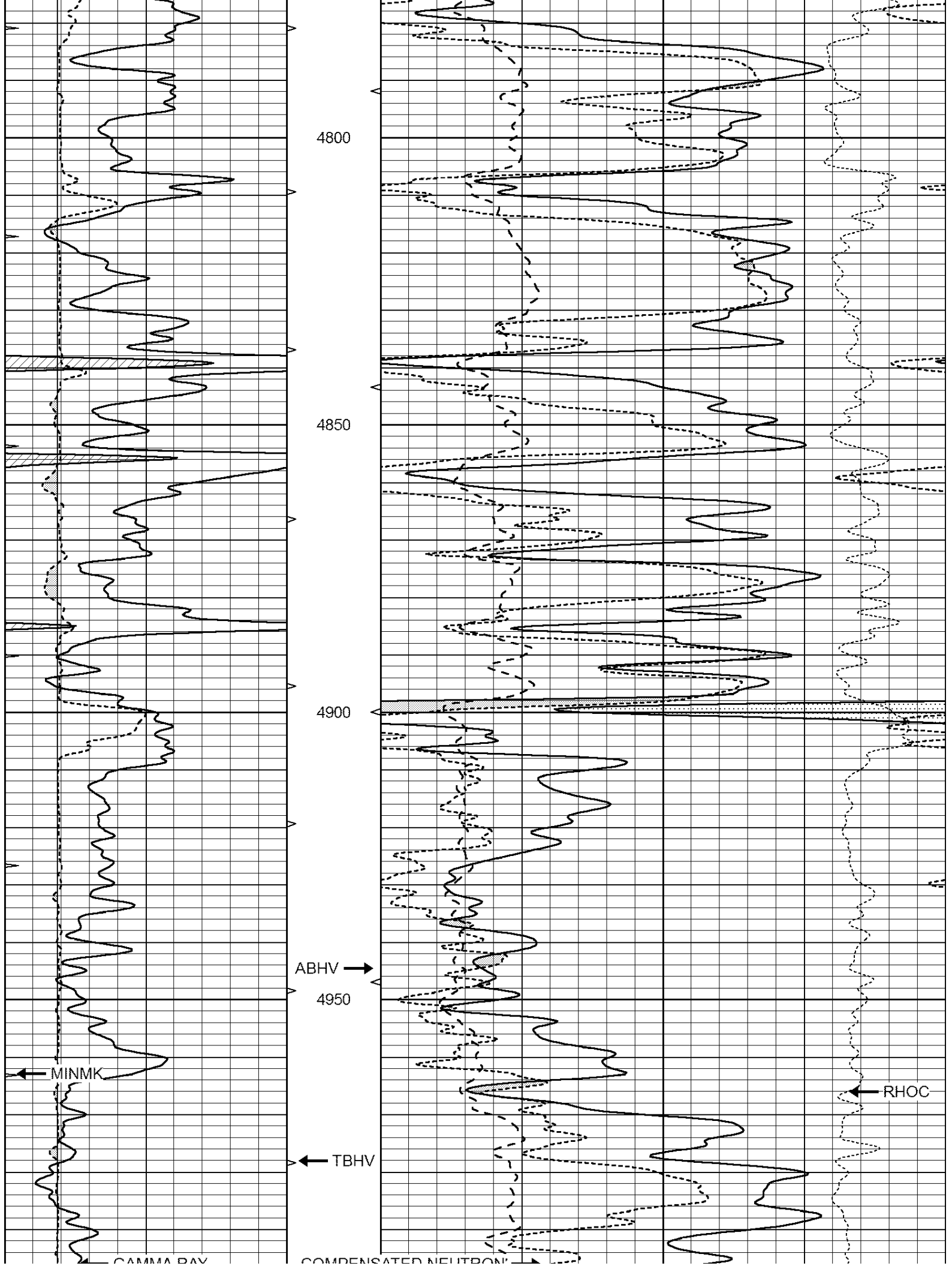
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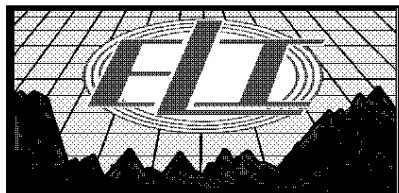
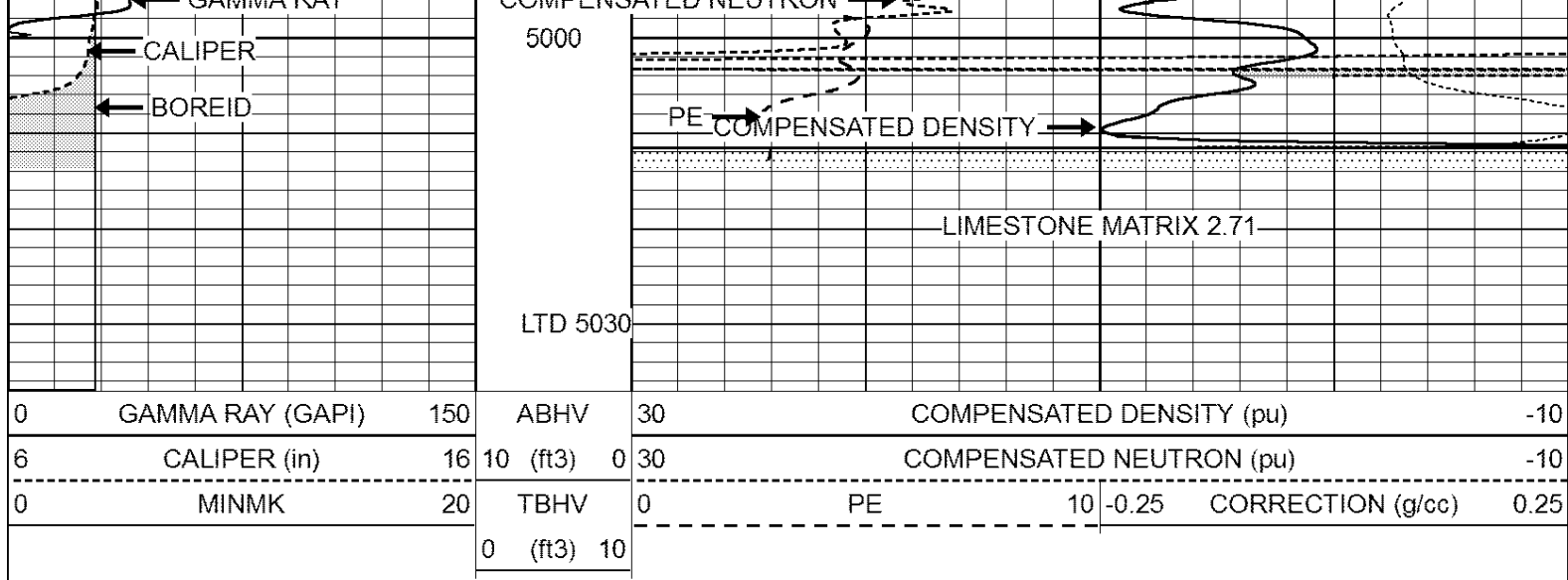
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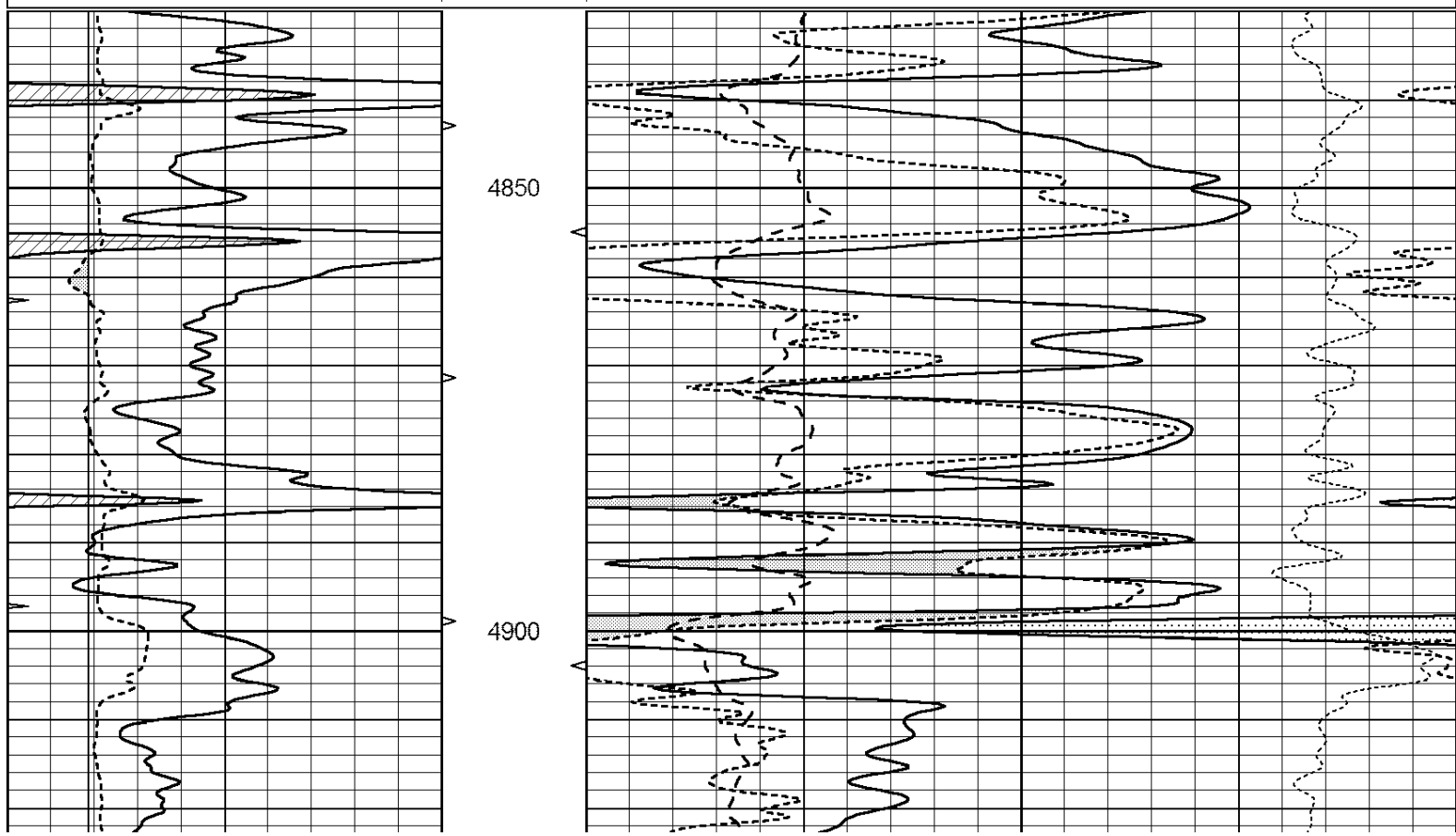


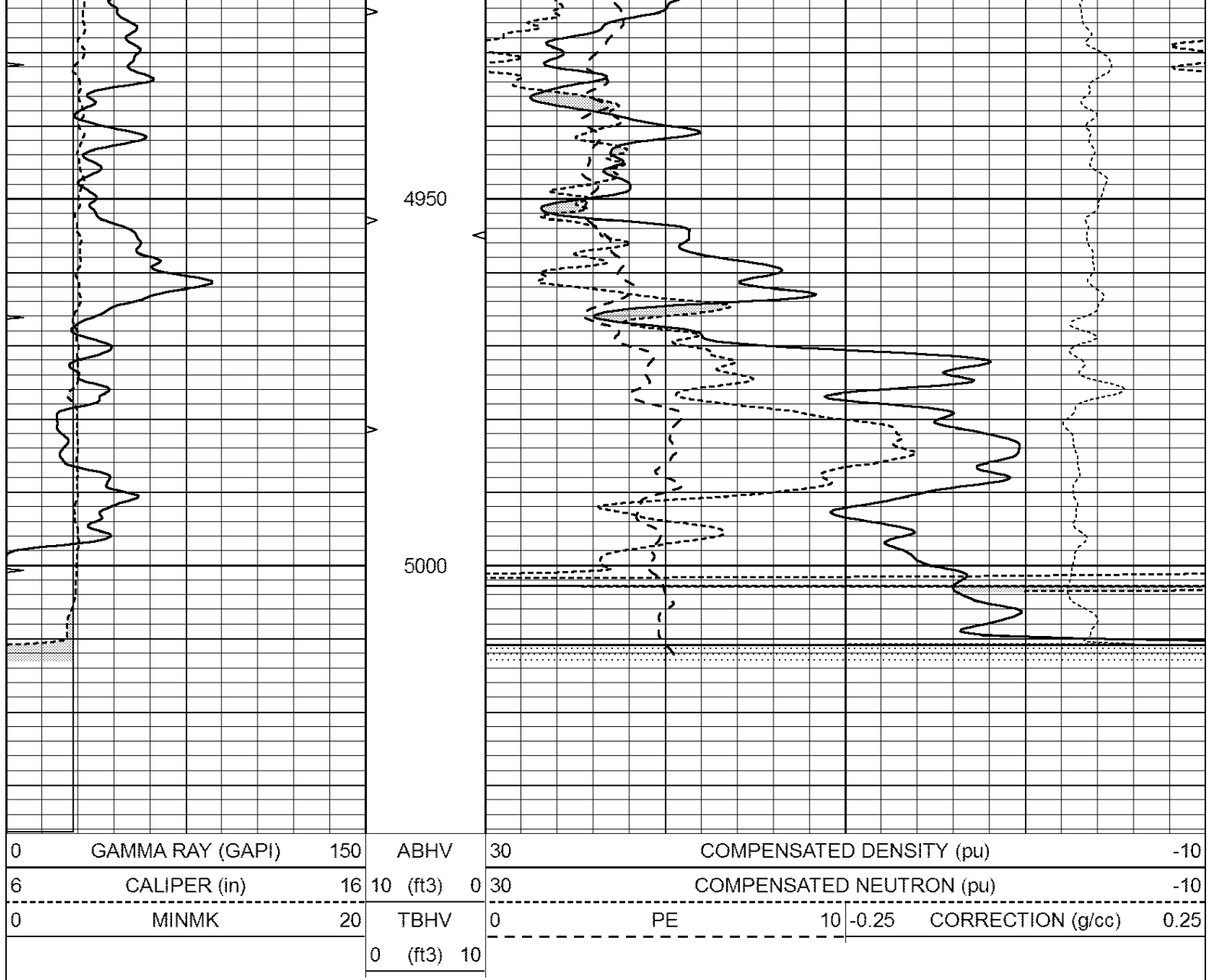


REPEAT SECTION

Database File: 3476pe.db
 Dataset Pathname: pass2.1
 Presentation Format: _ldt_neu
 Dataset Creation: Sat Jan 12 08:37:46 2019
 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						





Calibration Report

Database File: 3476pe.db
Dataset Pathname: pass2.1
Dataset Creation: Sat Jan 12 08:37:46 2019

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
Surface Cal Performed: Mon Sep 10 14:28:35 2018
Downhole Cal Performed: Mon Sep 10 14:28:38 2018
After Survey Verification Performed: Mon Sep 10 14:28:40 2018

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	590.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration			Readings		References		Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

After Survey Verification			Readings		Targets		Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report								
Serial: 001N				Model: PRB				

Master Calibration			Performed Mon Nov 20 11:56:25 2017					
	Background		Magnesium	Aluminum		Sandstone		
Window 1	1693.3		8089.0	3078.3		8419.5		cps
Window 2	1575.1		7019.6	2756.4		7206.7		cps
Window 3	1275.0		3876.1	1831.0		3893.0		cps
Window 4	381.2		387.1	383.6		385.9		cps
Long Space	0.0		5444.5	1181.2		5631.5		cps
Short Space	2.9		1798.1	1211.5		1809.2		cps
Rho			1.7100	2.5900		1.3800		g/cc
Pe			0.0000	2.5700		1.5500		
Rib Angle	: 45.5		Rib Slope	: 1.018		Density/Spine Ratio		: 0.558
Spine Angle	: 75.5		Spine Slope	: 3.870		Spine Intercept		: -20.4

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

Compensated Neutron Calibration Report					
Serial Number:		6I			
Tool Model:		G			
CALIBRATION					
Detector		Readings		Target	
Short Space		1.00	cps	1.00	cps
Long Space		1.00	cps	1.00	cps
		Normalization			
		1.0000			
		1.0000			
PRE-SURVEY VERIFICATION					
Detector		Readings		Measured	
1) Short Space		cps			
Long Space		cps		pu	pu
2) Short Space		cps			
Long Space		cps		pu	
3) Short Space		cps			
Long Space		cps		pu	
POST-SURVEY VERIFICATION					
Detector		Readings		Measured	
1) Short Space		cps			
Long Space		cps		pu	pu
2) Short Space		cps			
Long Space		cps		pu	pu
3) Short Space		cps			
Long Space		cps		pu	pu
Gamma Ray Calibration Report					
Serial Number:		GR6			
Tool Model:		OPEN			
Performed:		Mon Sep 10 14:29:23 2018			
Calibrator Value:		150.0		GAPI	
Background Reading:		0.0		cps	
Calibrator Reading:		276.0		cps	
Sensitivity:		0.5500		GAPI/cps	