



COMPENSATED
DENSITY / NEUTRON
PE LOG

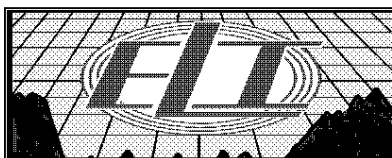
Company		RANEY OIL COMPANY, LLC.	
Well		JONES #1A	
Field		CABIN VALLEY	
County		COWLEY	
State		KANSAS	
Location:		API # : 15-035-24715-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 8' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 31 TWP 33S RGE 6E		Other Services DIL/MEL SONIC	
Date		1/22/20	
Run Number		ONE	
Depth Driller		3457	
Depth Logger		3454	
Bottom Logged Interval		3430	
Top Log Interval		1700	
Casing Driller		8 5/8"@305'	
Casing Logger		305	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.5/55	
pH / Fluid Loss		10.0/7.2	
Source of Sample		FLOWLINE	
Rim @ Meas. Temp		1.60@80F	
Rinf @ Meas. Temp		1.20@80F	
Rmc @ Meas. Temp		1.92@80F	
Source of Rmf / Rmc		MEASUREMENT	
Rim @ BHT		1.15@111F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		3:00 P.M.	
Maximum Recorded Temperature		111 F	
Equipment Number		922339	
Location		HAYS, KANSAS	
Recorded By		JEFF LUEBBERS	
Witnessed By		ROGER MARTIN	

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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

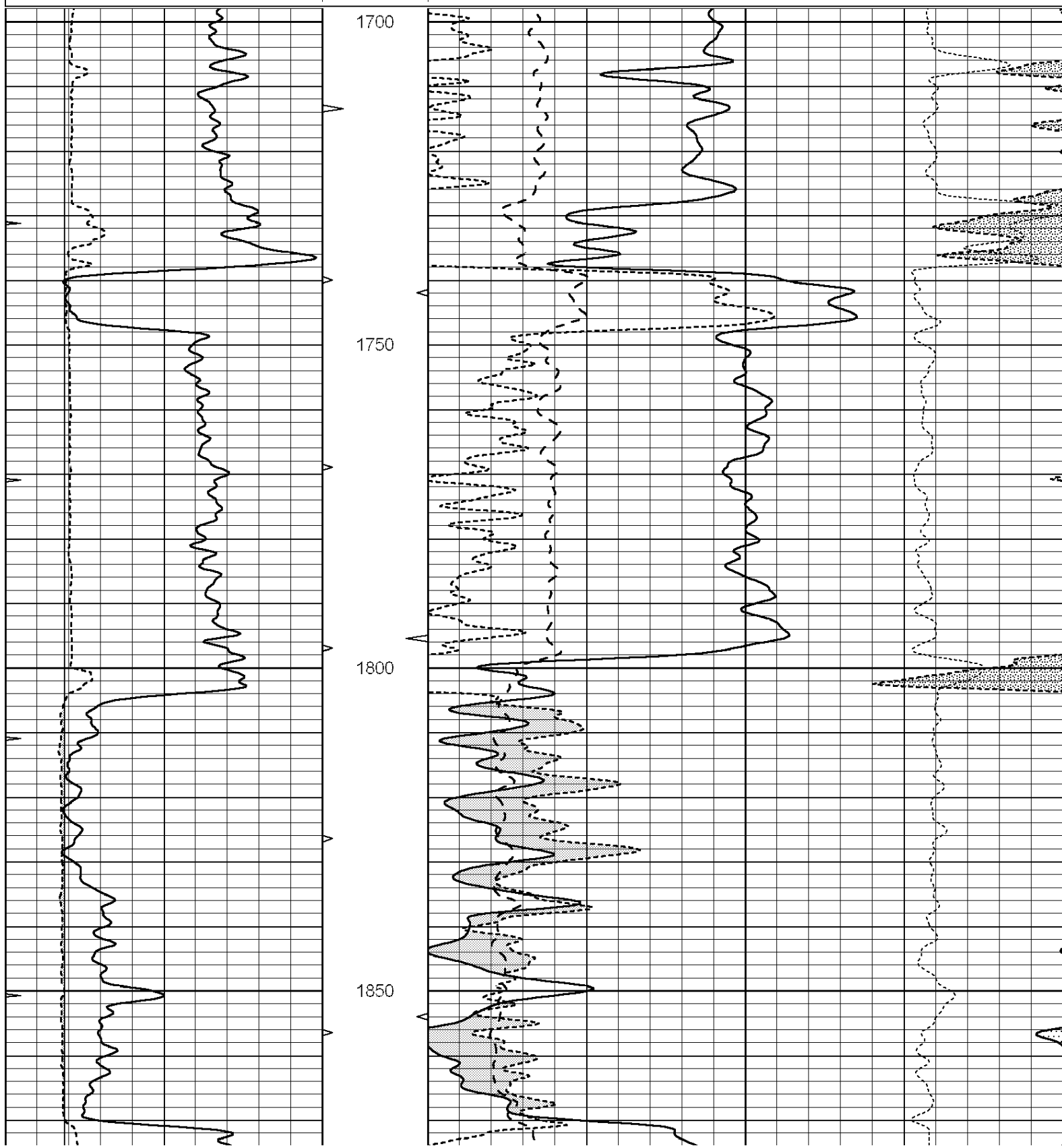
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
WINFIELD, KS., E. ON 160 TO "CR 1", SOUTH TO "CR 20", 3E. TO "RD. 181", 3S. CURVE EAST 1 MILE TO
3RD GATE

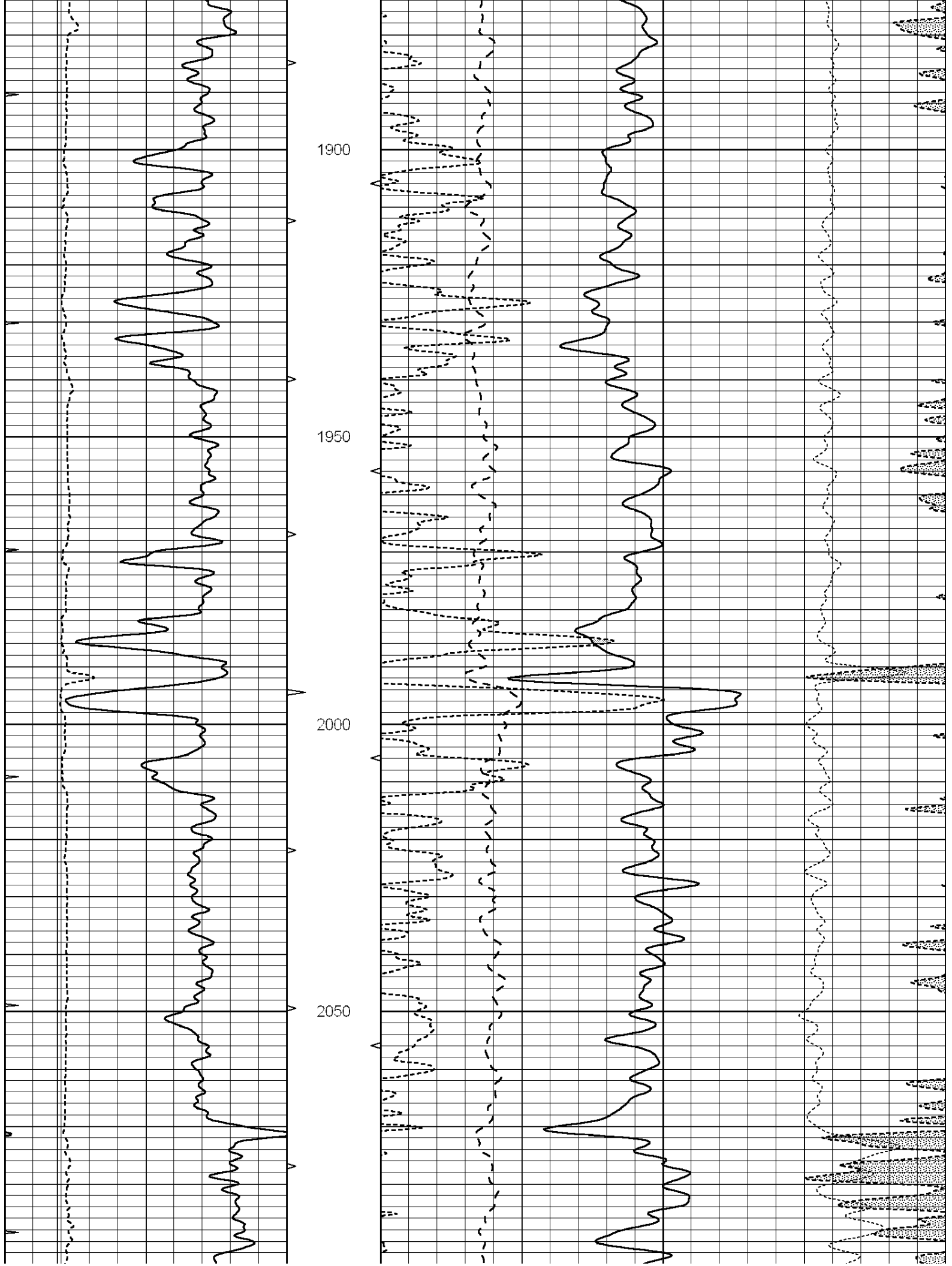


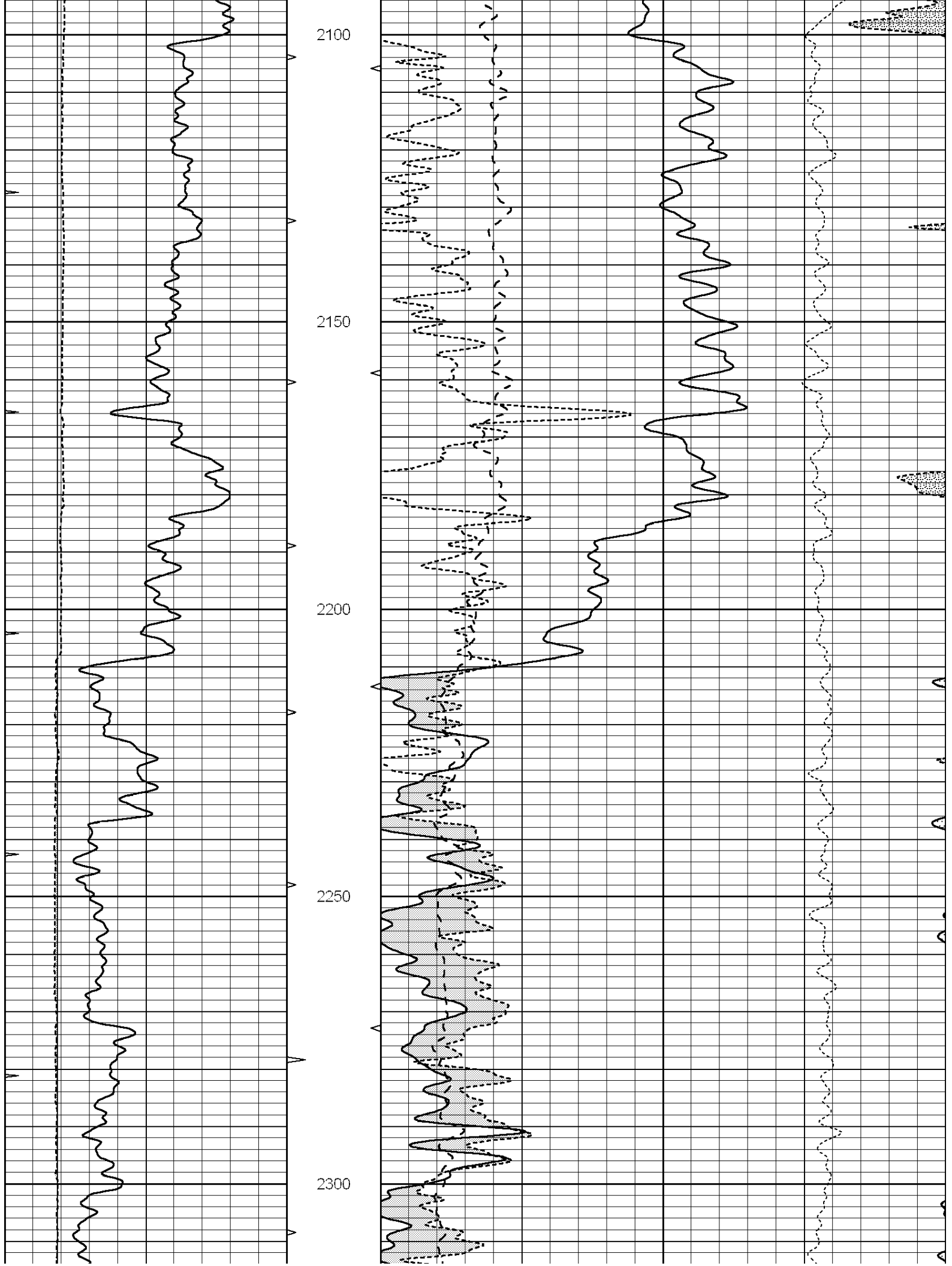
MAIN SECTION

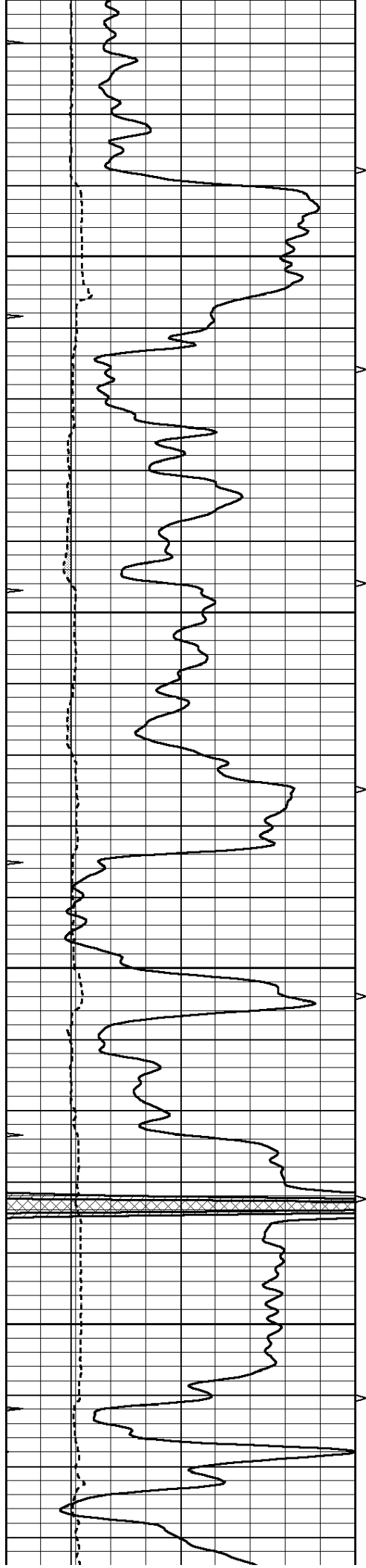
Database File: 4526pe.db
 Dataset Pathname: pass3.4
 Presentation Format: ldt_neu
 Dataset Creation: Wed Jan 22 16:49:33 2020
 Charted by: Depth in Feet scaled 1:240

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		







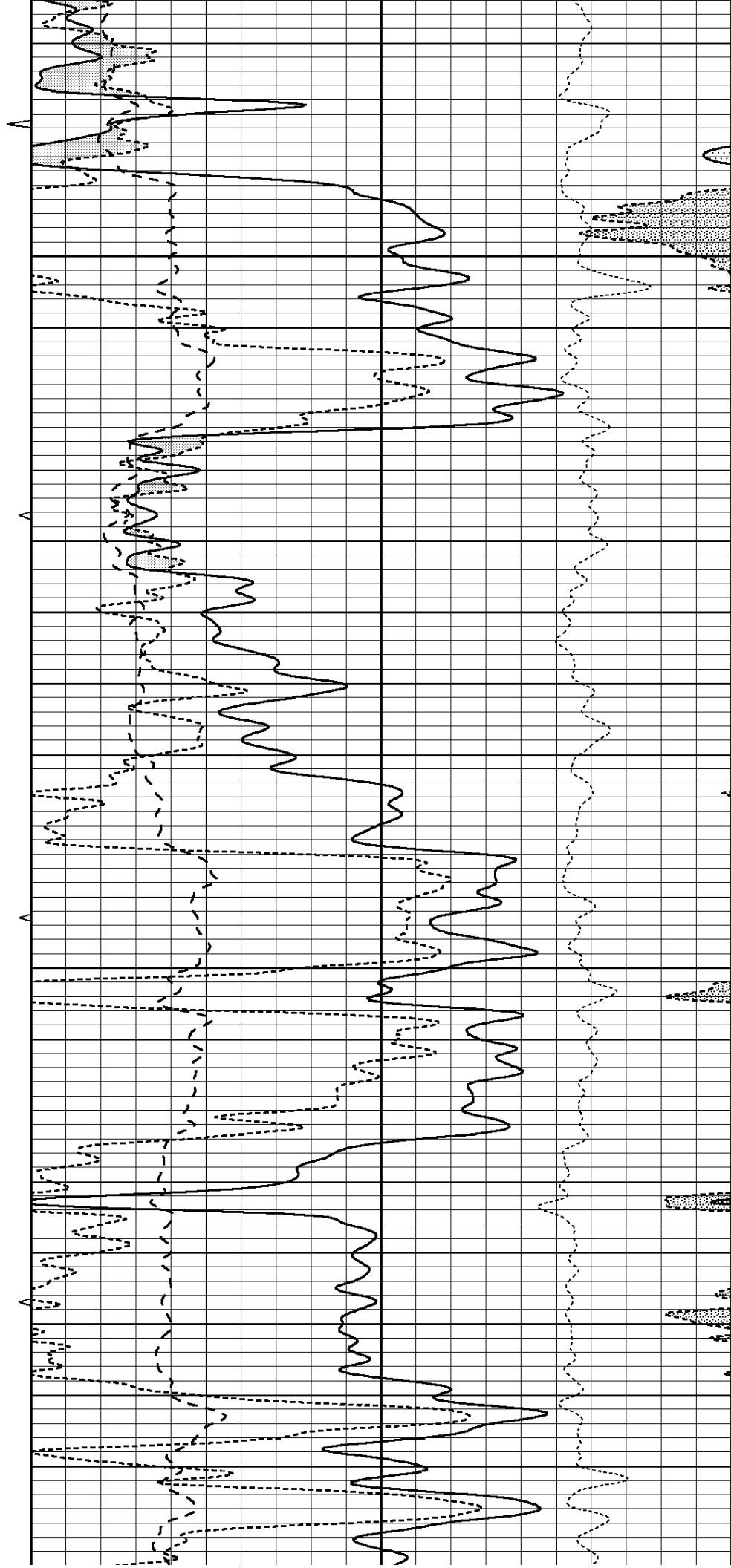


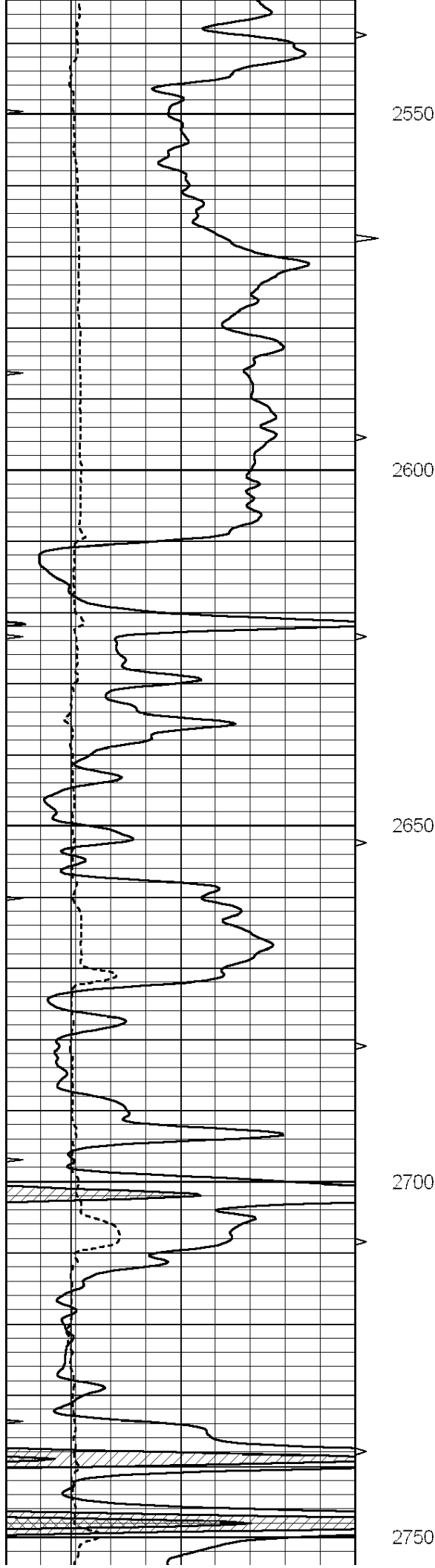
2350

2400

2450

2500





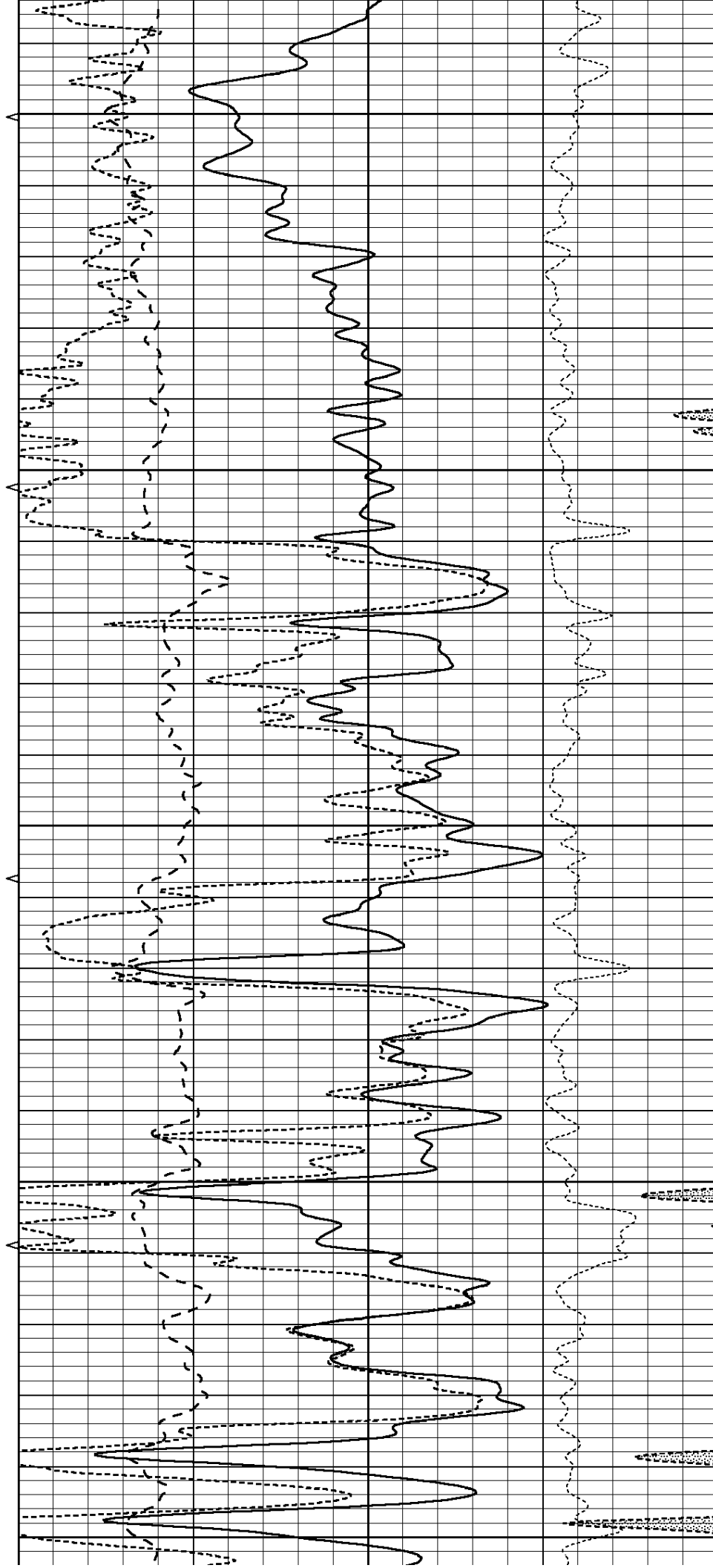
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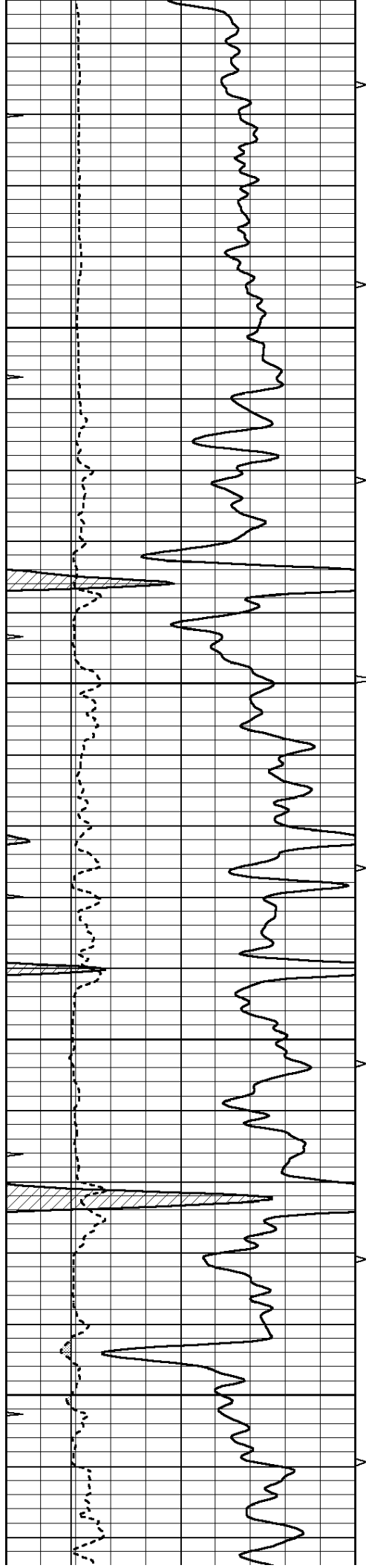
2600

2650

2700

2750



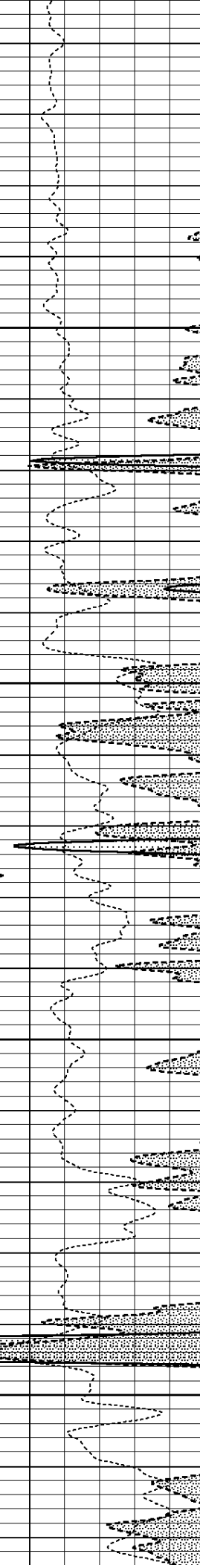
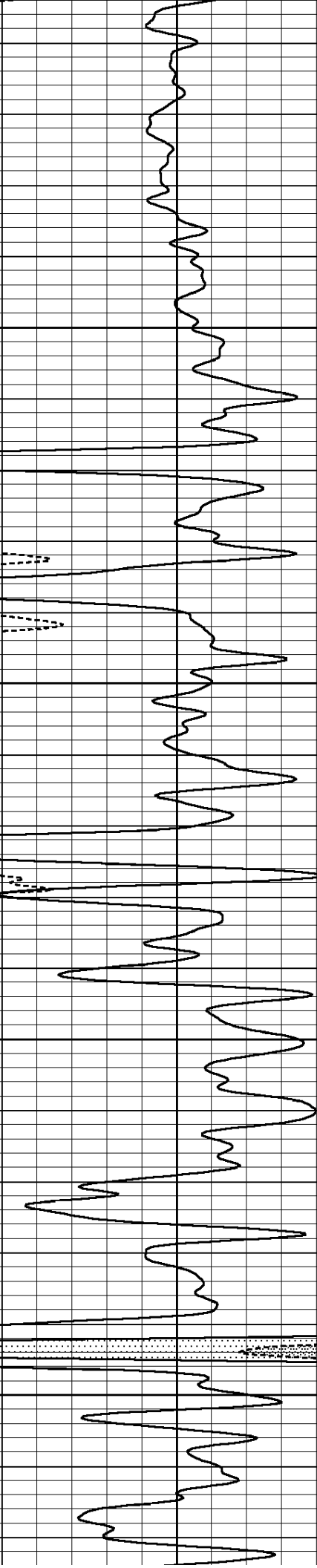
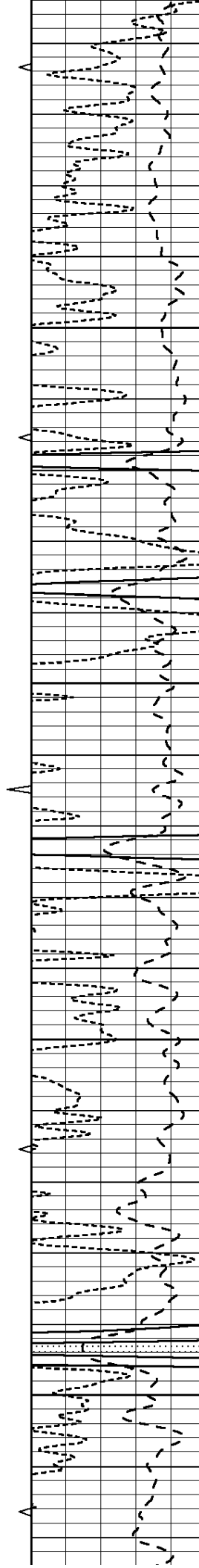


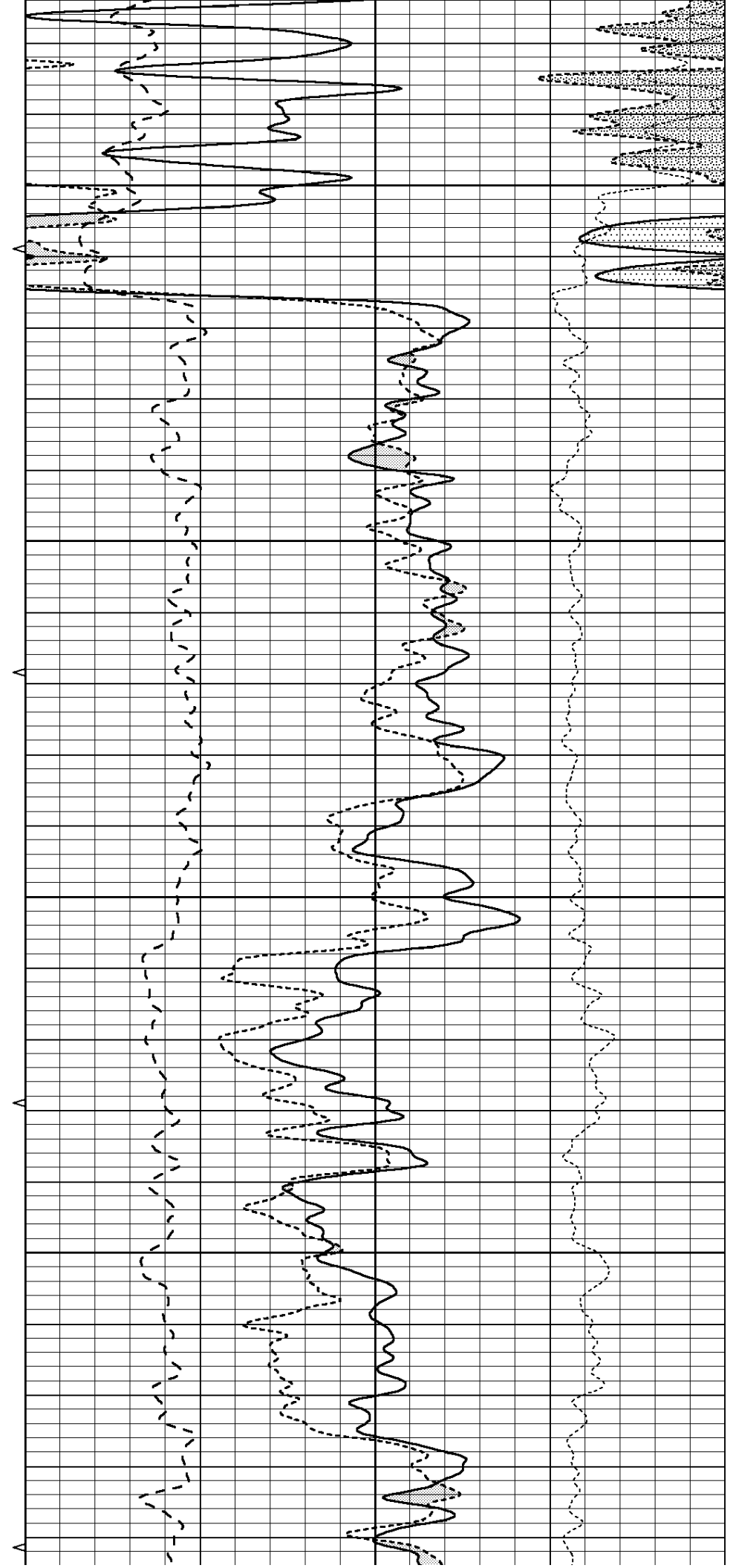
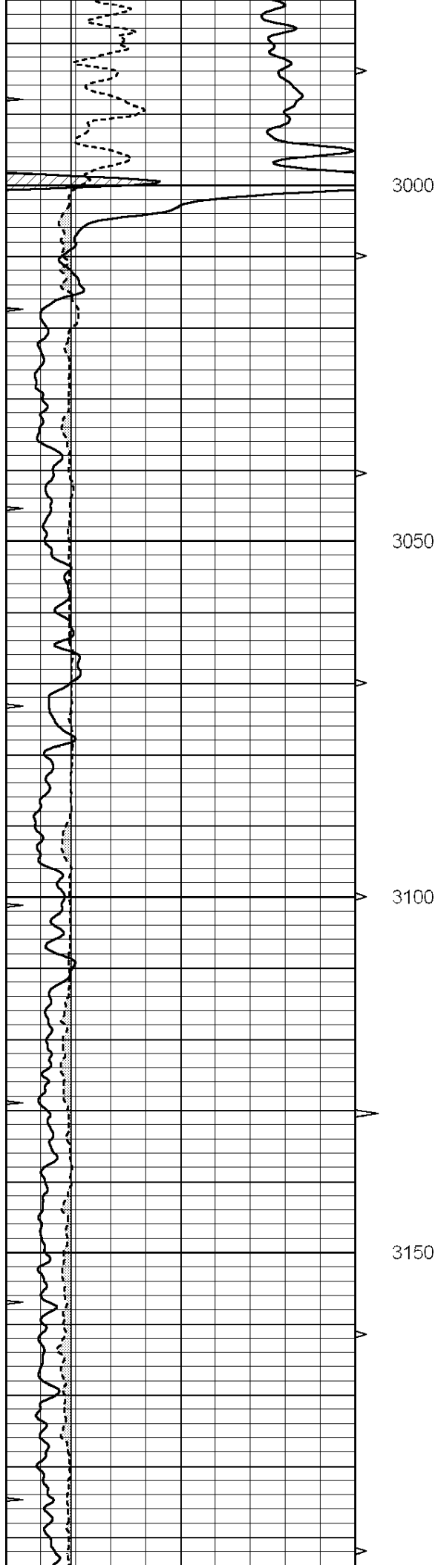
2800

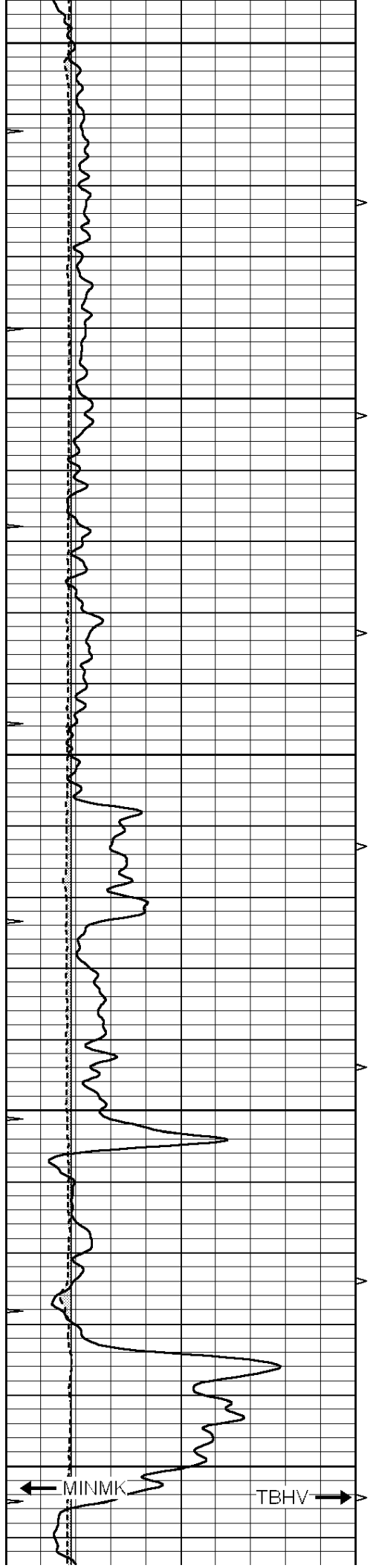
2850

2900

2950







3200

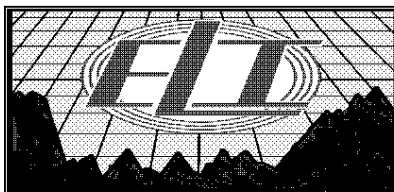
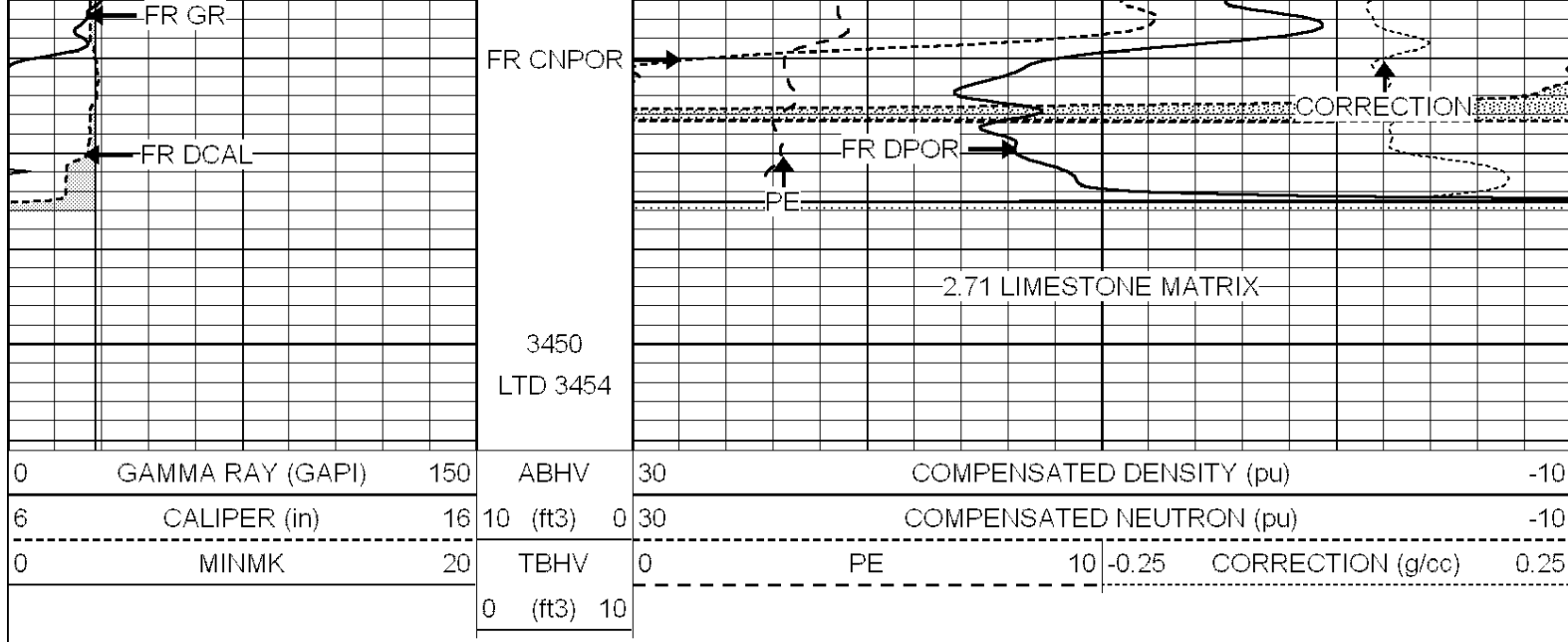
3250

3300

3350

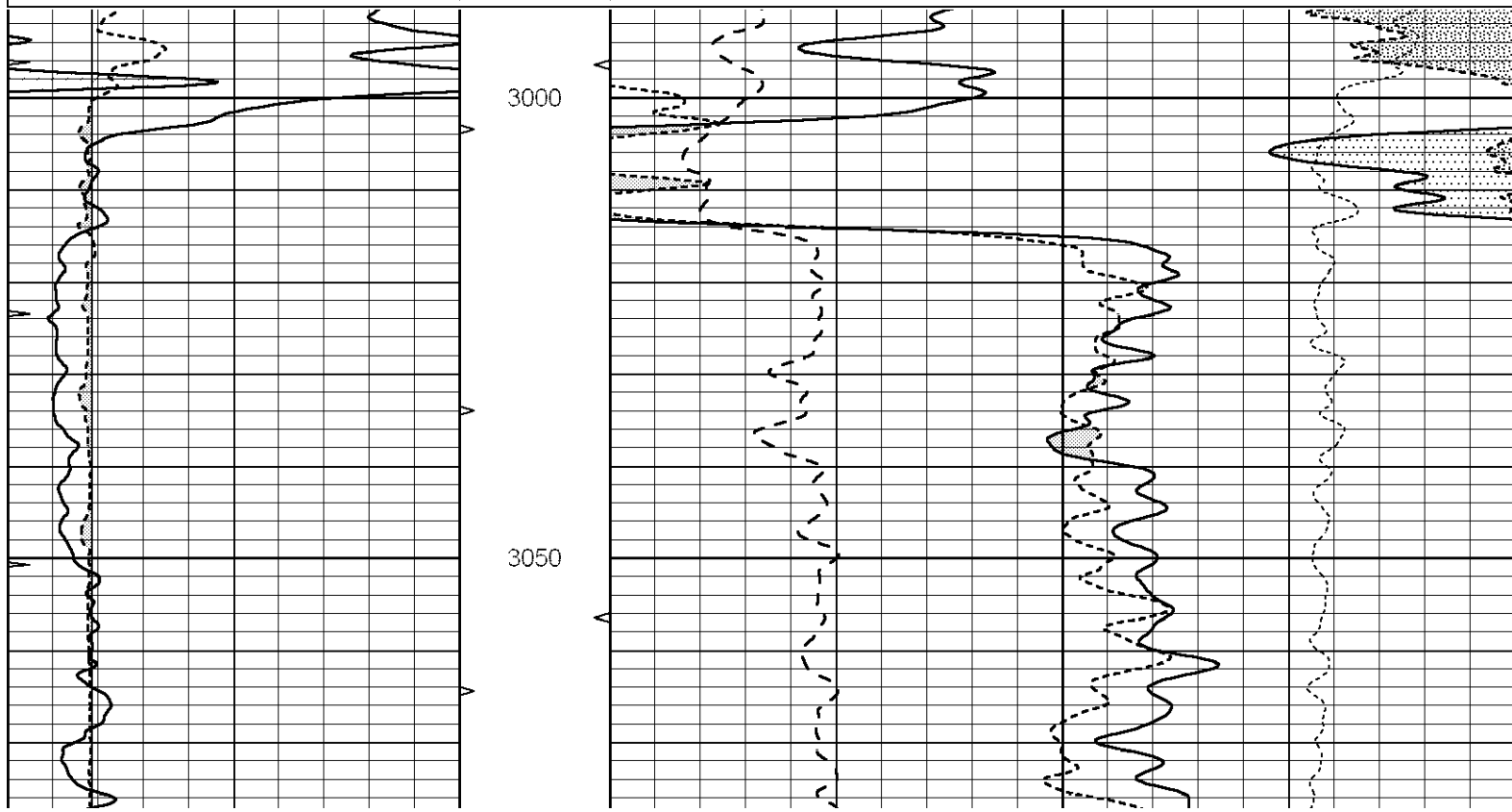
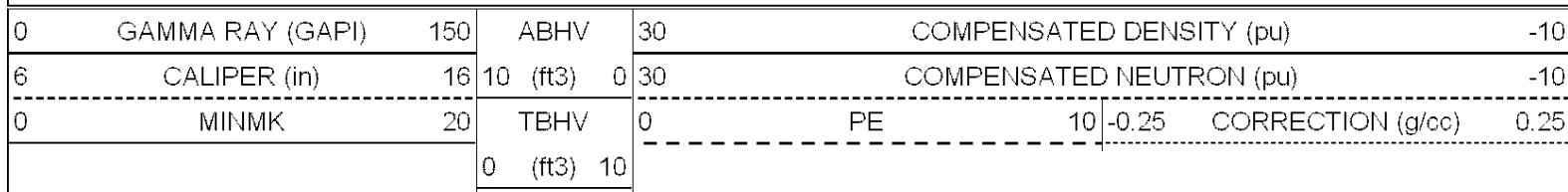
3400

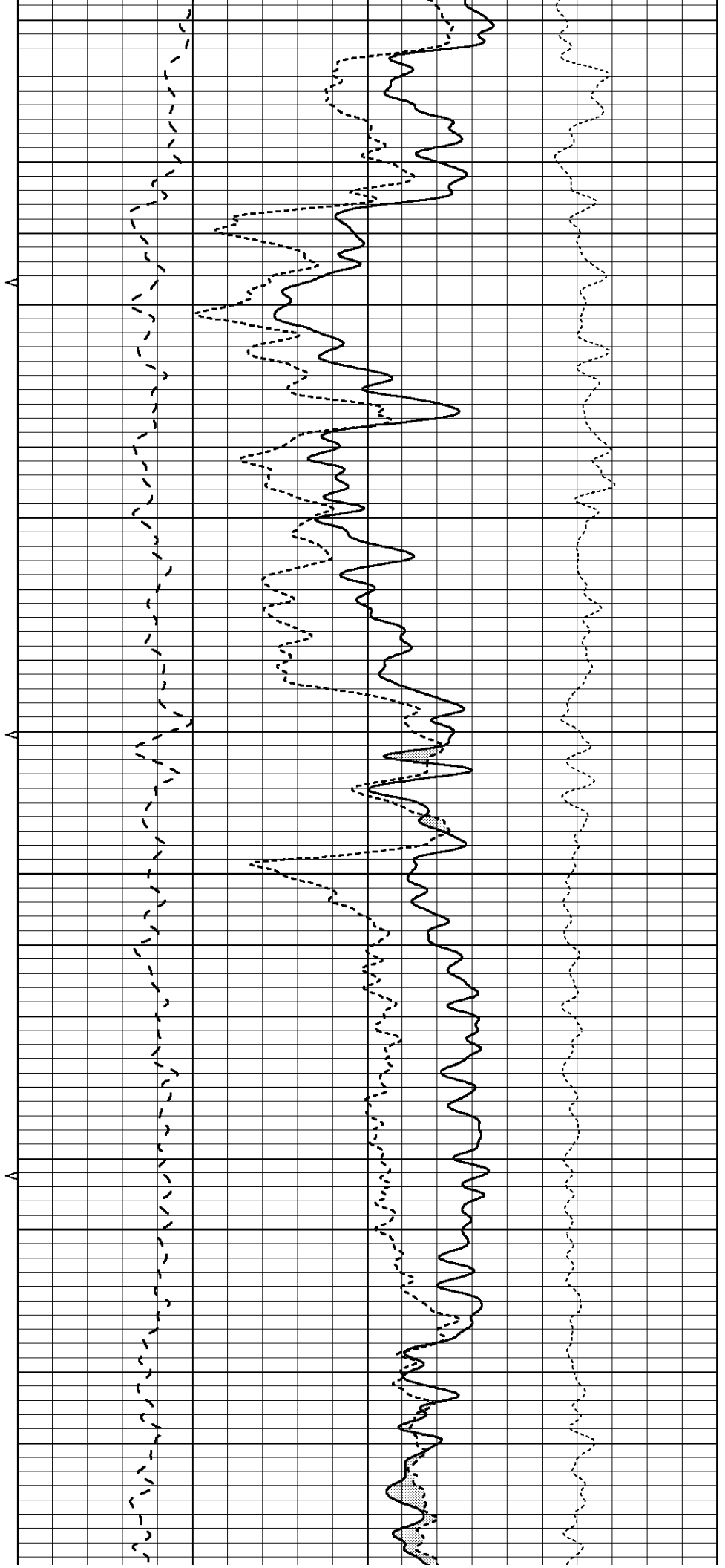
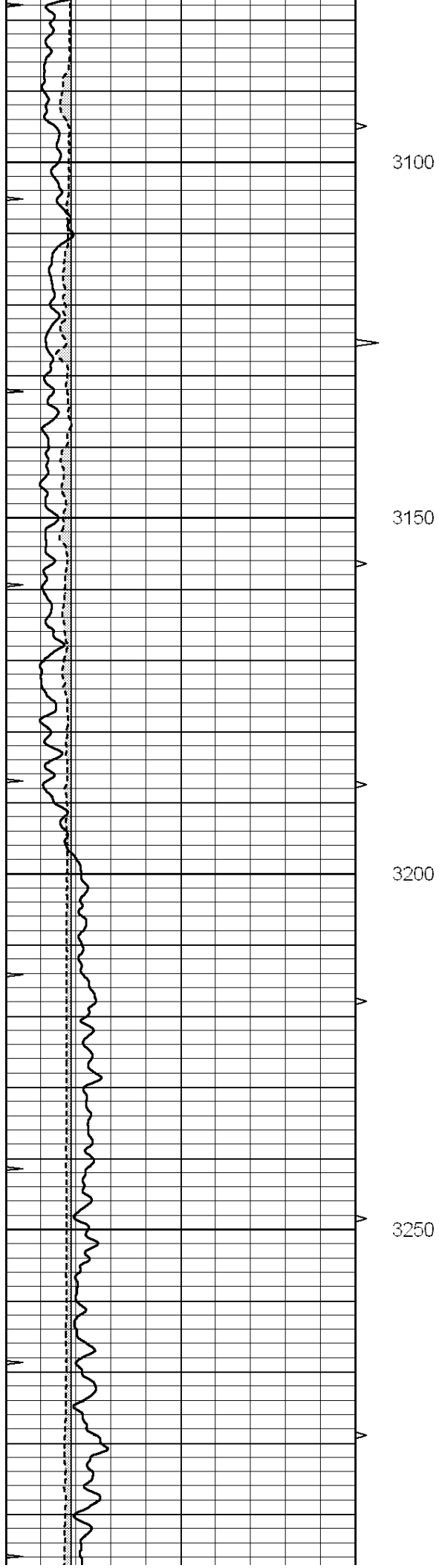
5.5" ABHV

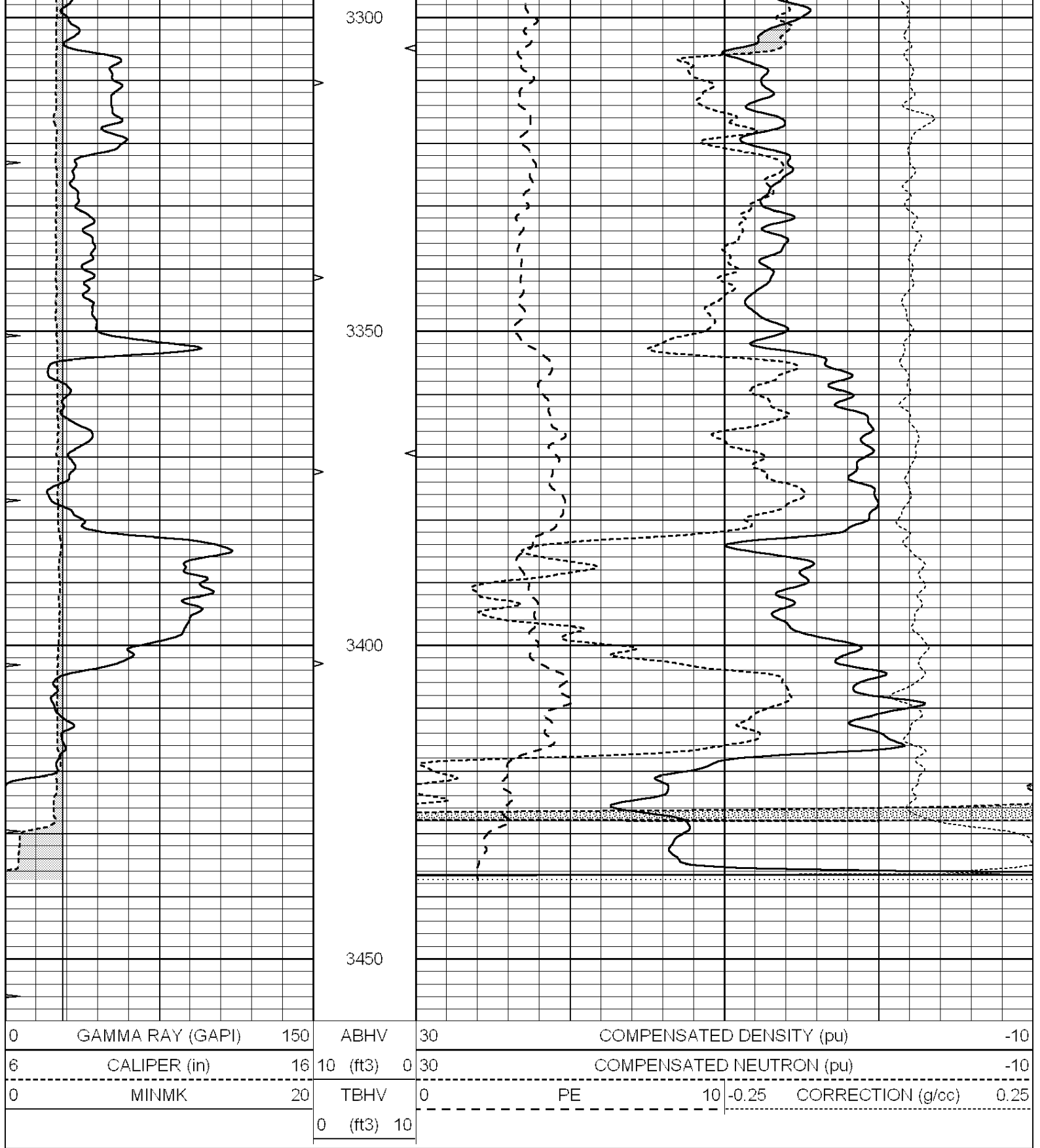


REPEAT SECTION

Database File: 4526pe.db
 Dataset Pathname: pass2.5
 Presentation Format: ldt_neu
 Dataset Creation: Wed Jan 22 16:38:58 2020 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240







Calibration Report

Database File: 1598ddn.db
Dataset Pathname: pass4
Dataset Creation: Wed Aug 30 02:13:00 2017 by Log SOC 120430

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
Surface Cal Performed: Wed Aug 30 00:06:33 2017
Downhole Cal Performed: Mon Jul 28 12:00:56 2009

Surface Calibration								
Readings			References				Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	620.000	0.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	675.000	-44.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration								
Readings			References				Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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: 002

Model: PRB

Master Calibration					Performed Mon Aug 21 11:27:42 2017				
	Background	Magnesium	Aluminum	Sandstone					
Window 1	837.1	10632.5	2945.1	12110.1					cps
Window 2	772.0	9117.4	2570.1	10197.3					cps
Window 3	631.7	4669.0	1481.9	5042.9					cps
Window 4	187.0	187.5	185.9	189.9					cps
Long Space	0.0	8345.4	1798.1	9425.3					cps
Short Space	1.1	1927.9	1285.9	2050.2					cps
Rho		1.7100	2.5960	1.3800					g/cc
Pe		0.0000	2.5700	1.5500					
Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio				: 0.558	
Spine Angle	: 75.2	Spine Slope	: 3.790	Spine Intercept				: -19.6	

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:		070808			
Tool Model:		Probe			
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:	070558				
Tool Model:	OPEN_GR				
Performed:	Wed May 31 00:09:32 2017				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	0.2800	GAPI/cps			