

COMPENSATED DENSITY/NEUTRON PE/LOG

Company	JOLEN OPERATING COMPANY	Company	JOLEN OPERATING COMPANY
Well	CARTER #1-6	Well	CARTER #1-6
Field	WILDCAT	Field	WILDCAT
County	CLARK	County	CLARK
State	KANSAS	State	KANSAS
Location:	AP1 # : 15-025-21611-0000	Other Services	DIL/MEL SON
Permanent Datum	1360' FNL & 975' FEL	Elevation	
Log Measured From	SEC 6 TWP 33S RGE 23W	KB. 2175	
Drilling Measured From	GROUND LEVEL	D.F. 2173	
	KELLY BUSHING 9' A.G.L.	G.L. 2166	
Date	10/04/19		
Run Number	ONE		
Depth Driller	5600		
Depth Logger	5600		
Bottom Logged Interval	5580		
Top Log Interval	3000		
Casing Driller	13 3/8" @ 242		
Casing Logger	242		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2/49		
pH / Fluid Loss	10.0/10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.30 @ 72F		
Rmt @ Meas. Temp	.23 @ 72F		
Rmc @ Meas. Temp	.36 @ 72F		
Source of Rmt / Rmc	MEASURED		
Rm @ BHT	.16 @ 130F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	///		
Maximum Recorded Temperature	130F		
Equipment Number	1523		
Location	HAYS, KANSAS		
Recorded By	GUS PFANENSTIEL		
Witnessed By	KEN LeBlanc		

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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

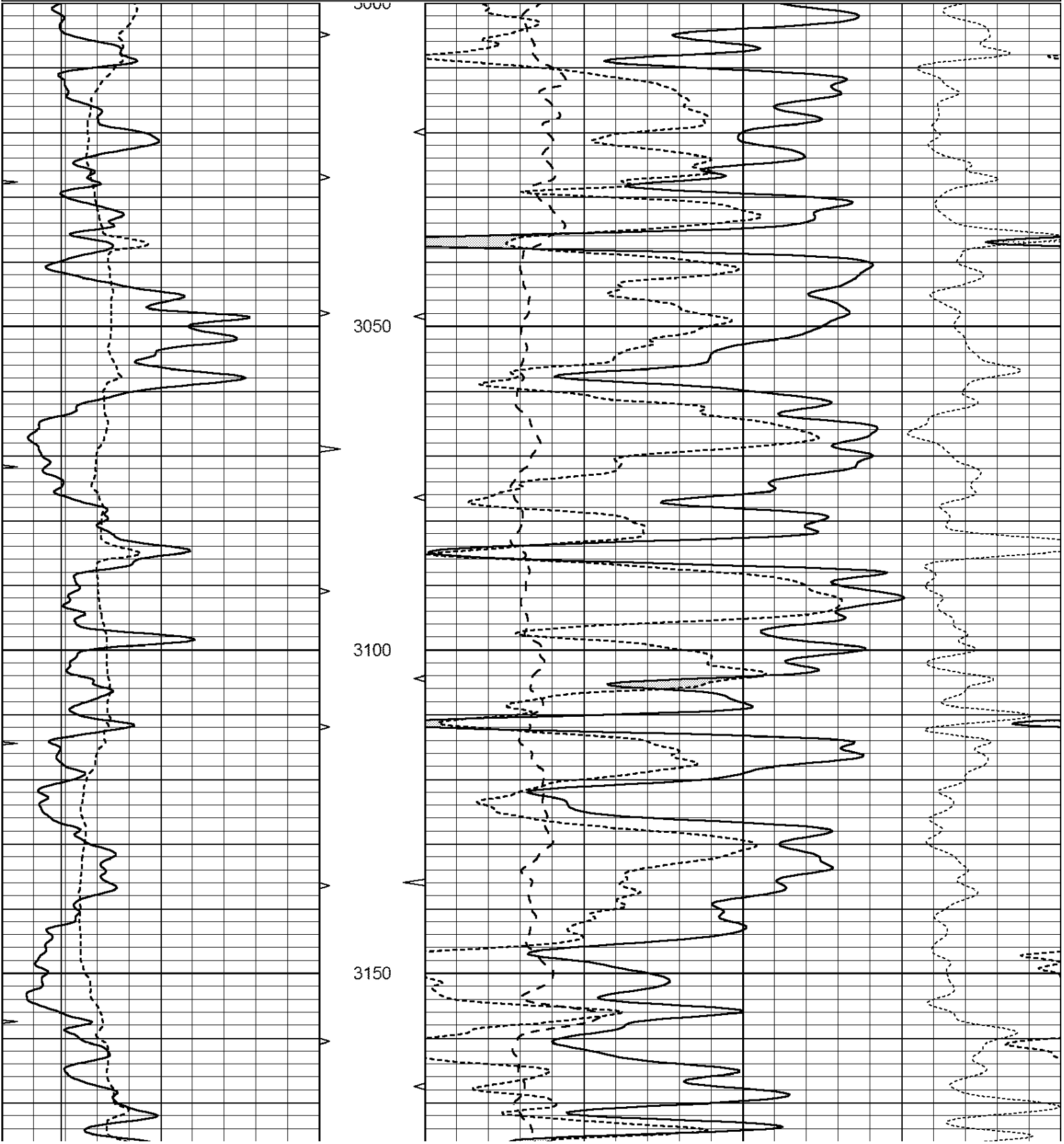
DIRECTIONS
ASHLAND WEST 4 MILES, NORTH 1/2 ,
WEST INTO.

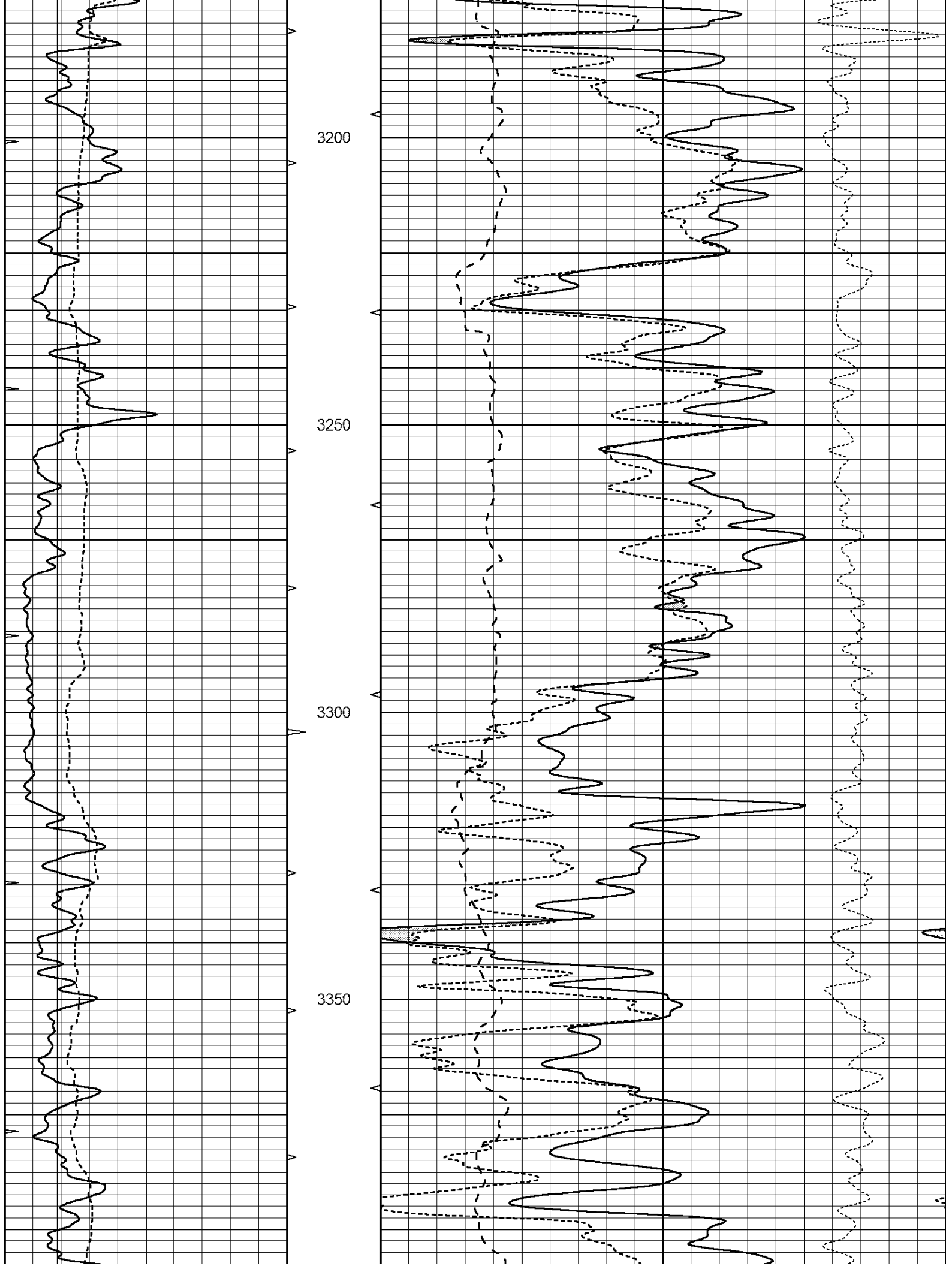


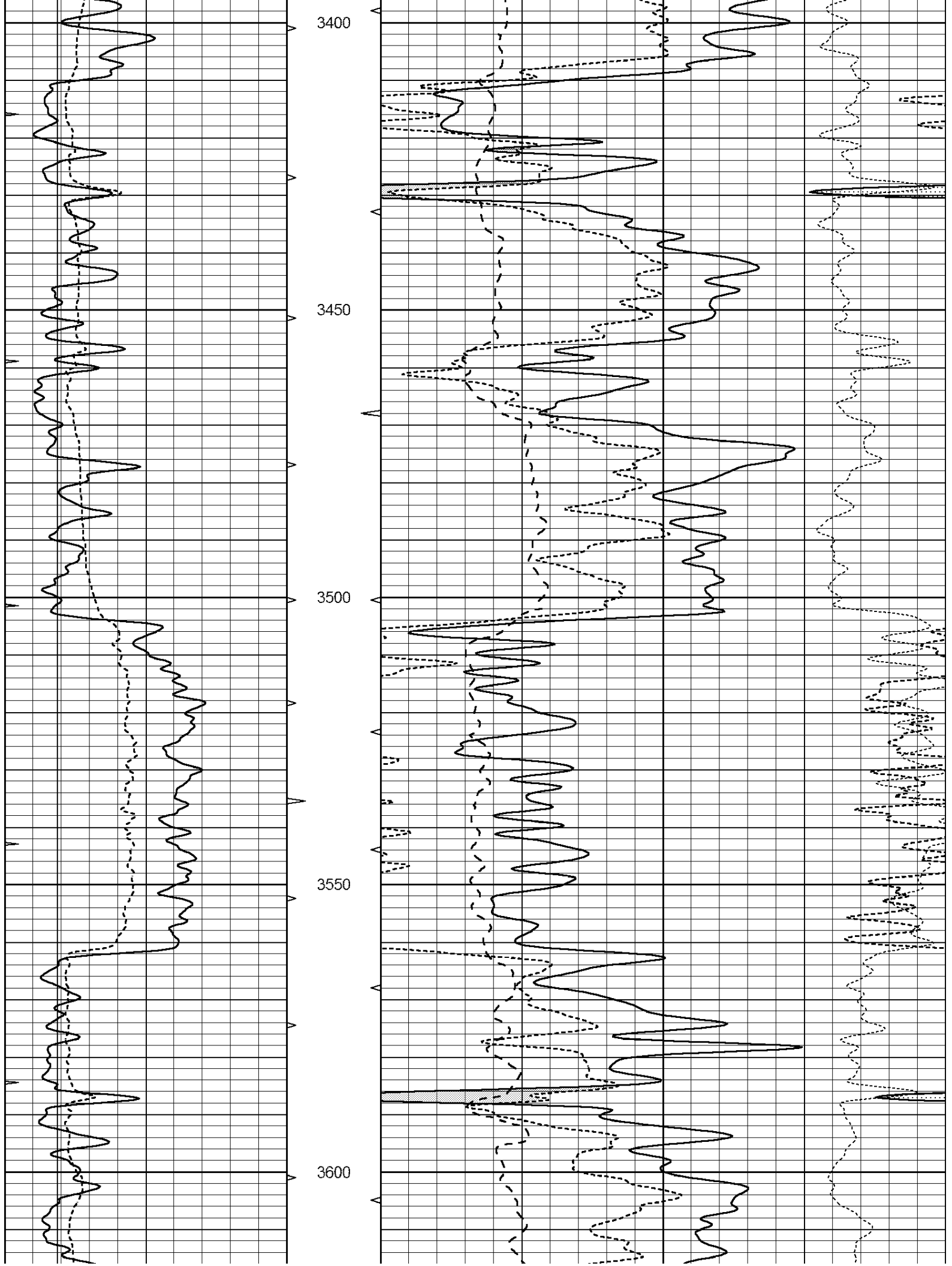
MAIN PASS

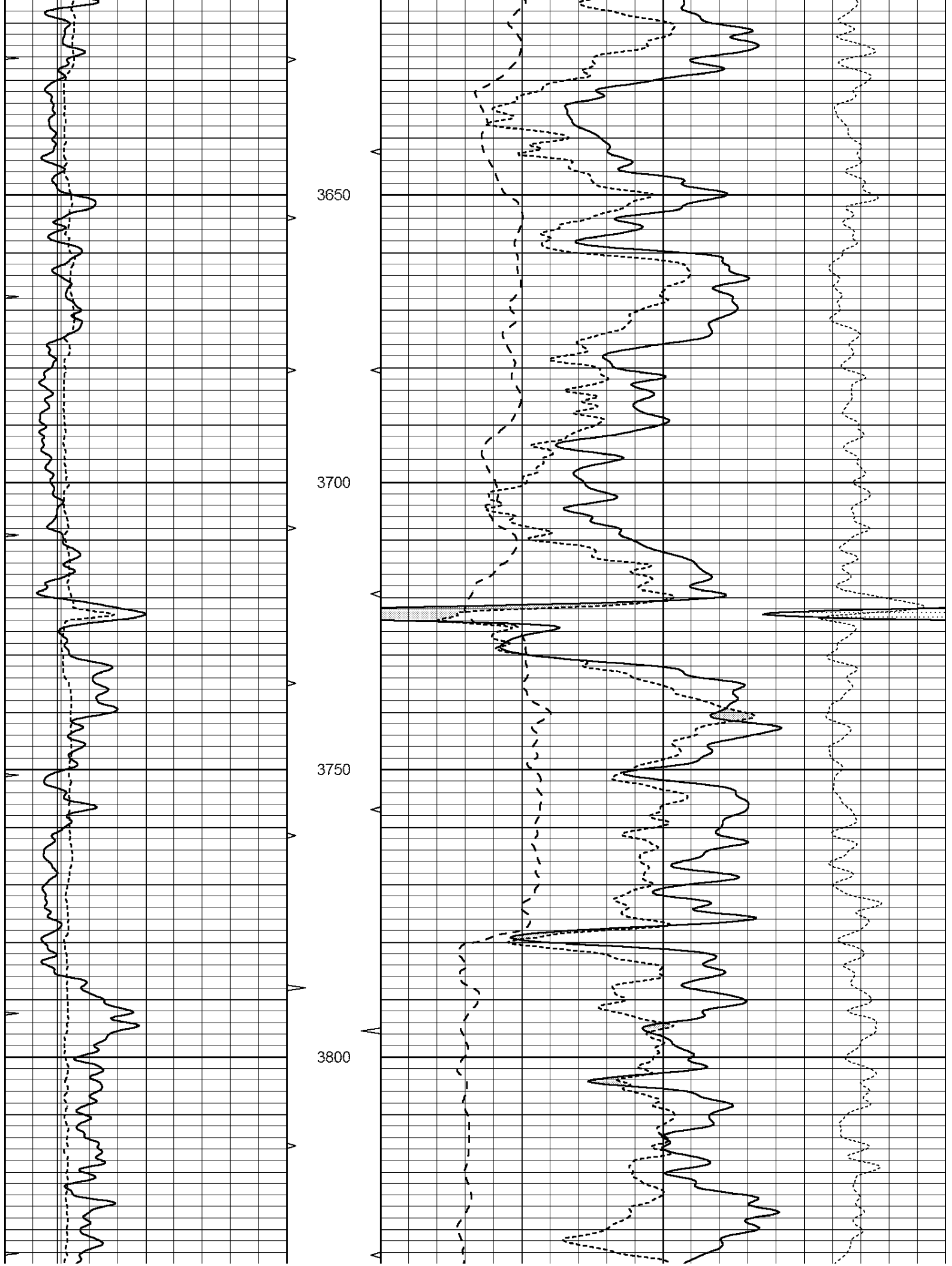
Database File: 4097pe.db
Dataset Pathname: pass5.1
Presentation Format: _ldt_neu
Dataset Creation: Fri Oct 04 19:58:56 2019
Charted by: Depth in Feet scaled 1:240

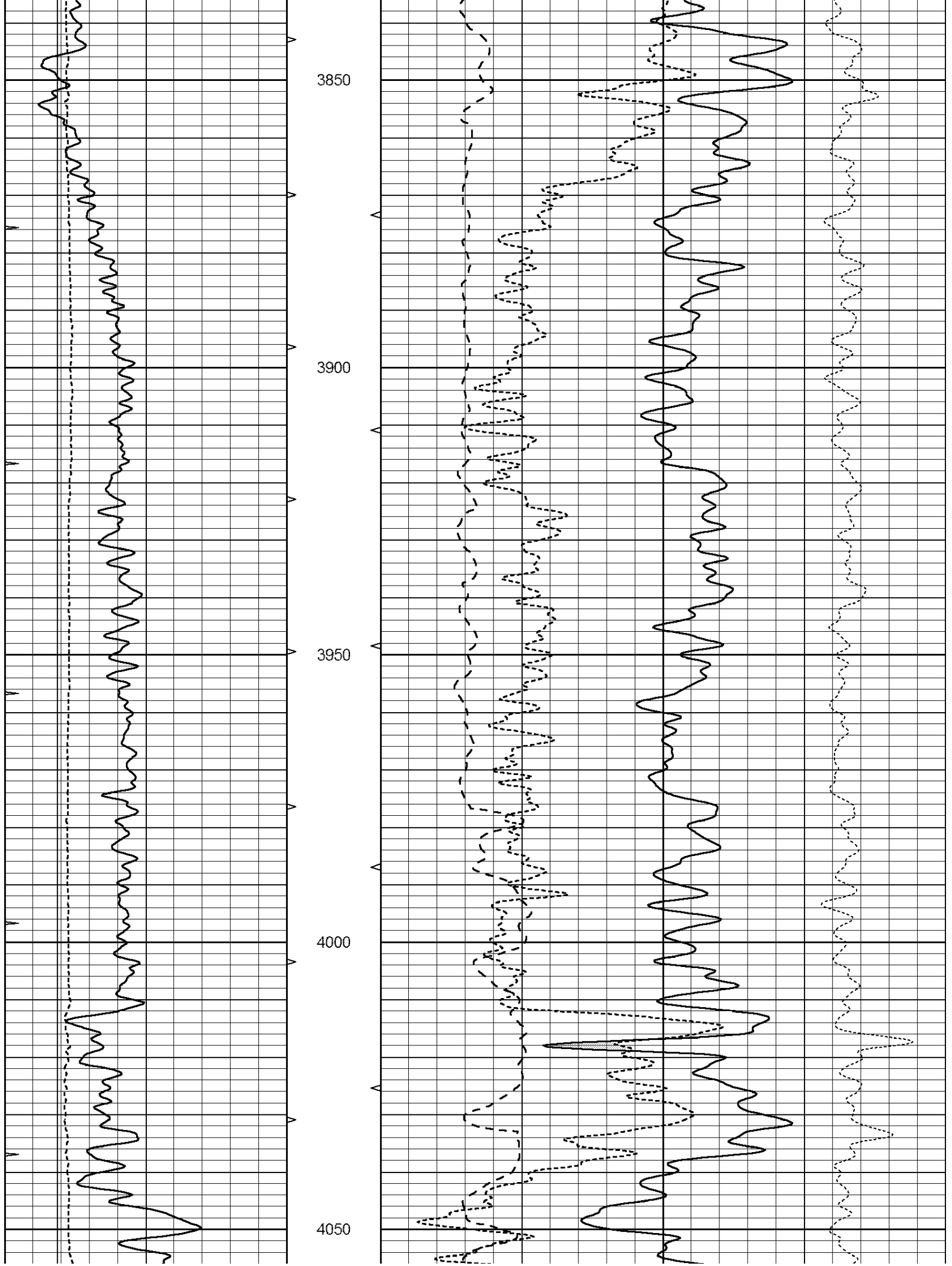
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			

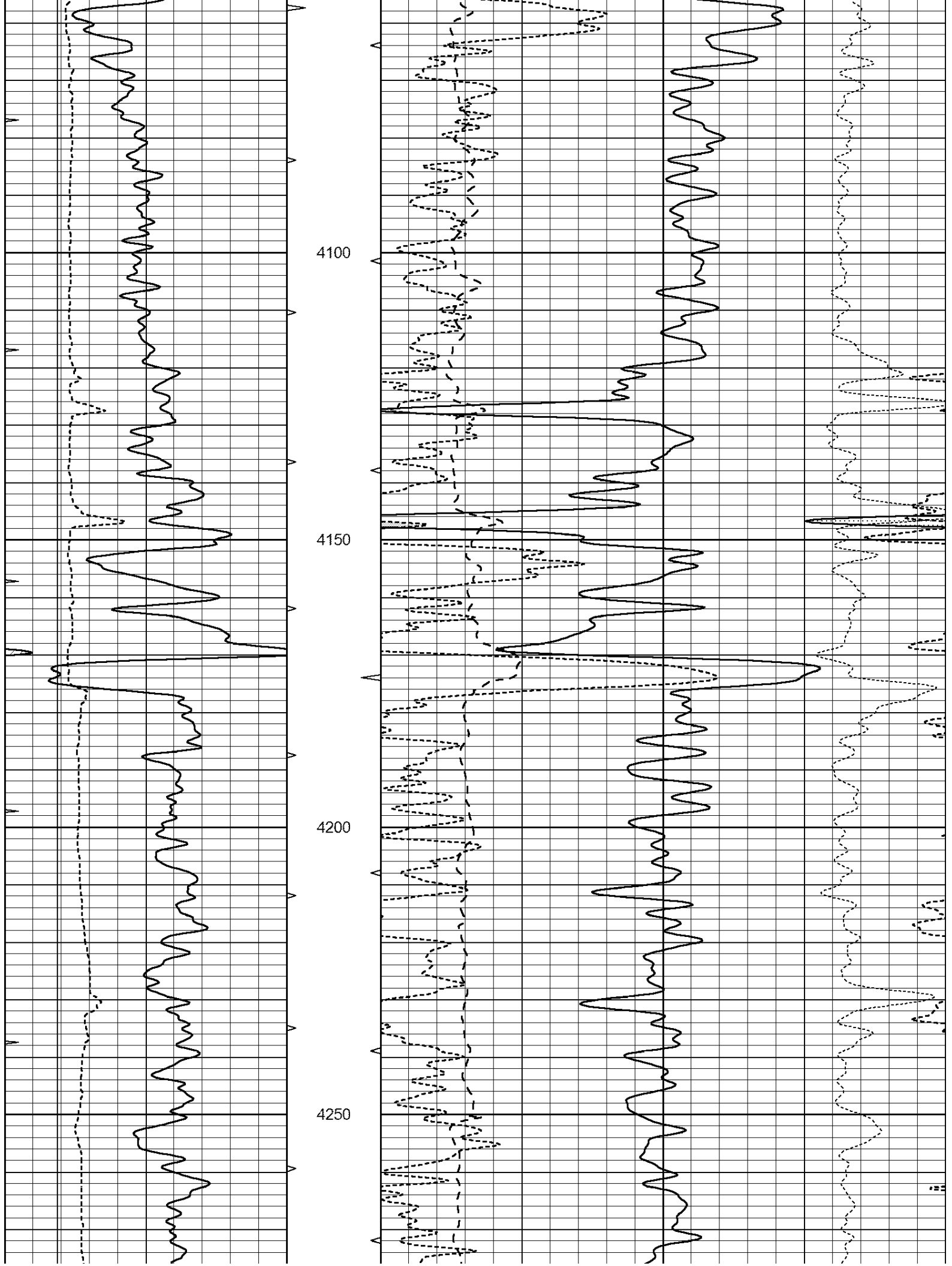


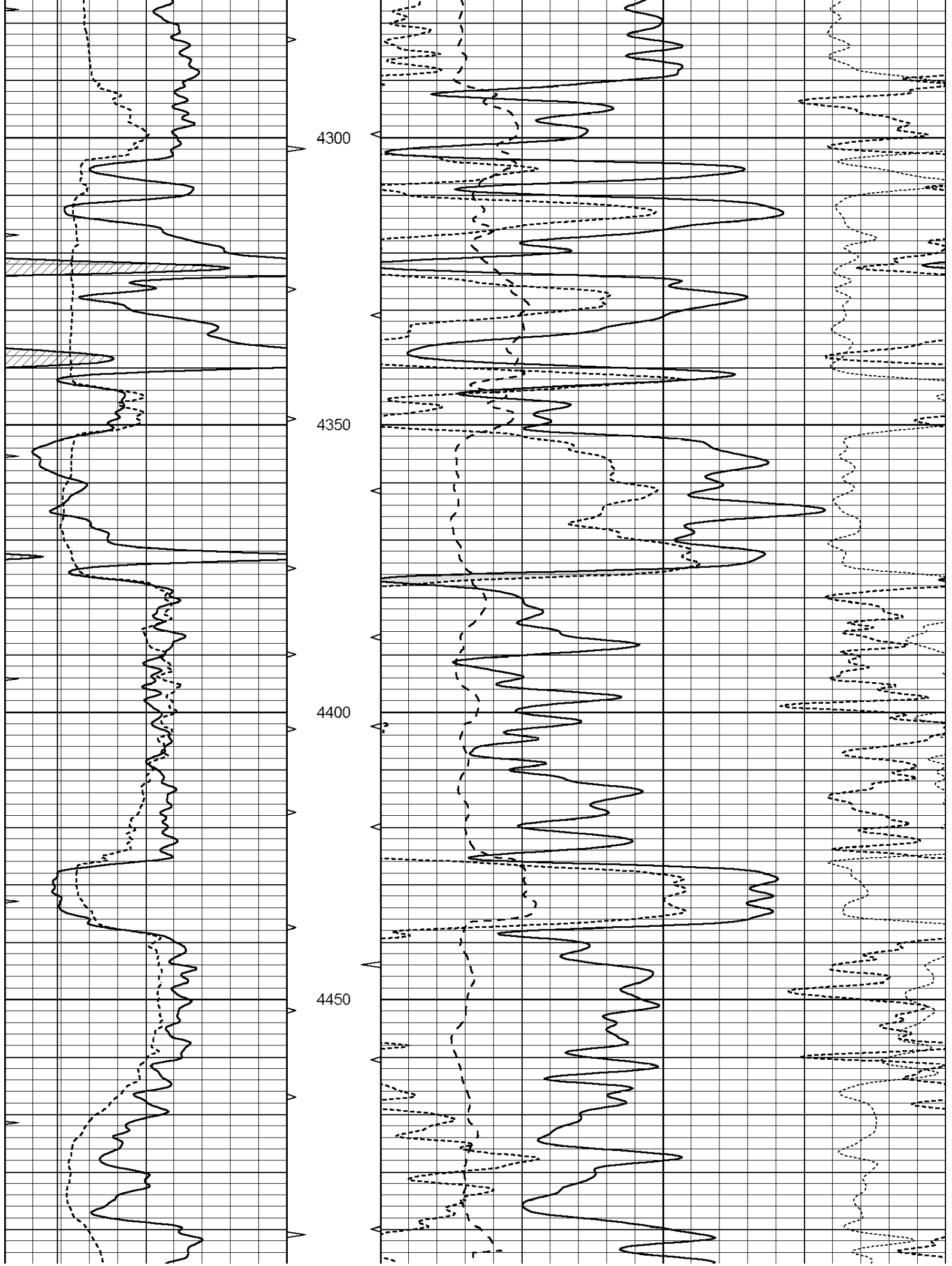


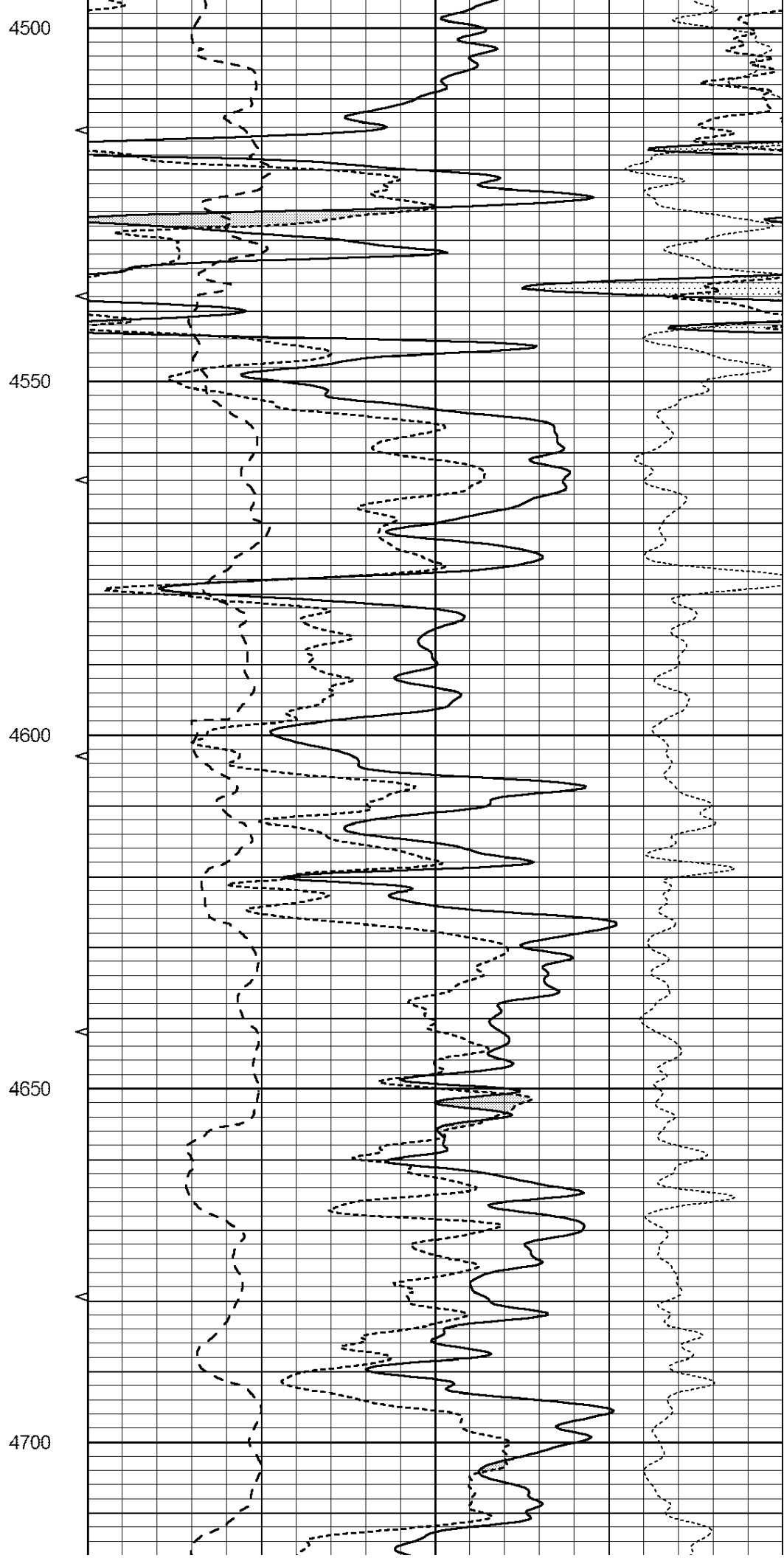
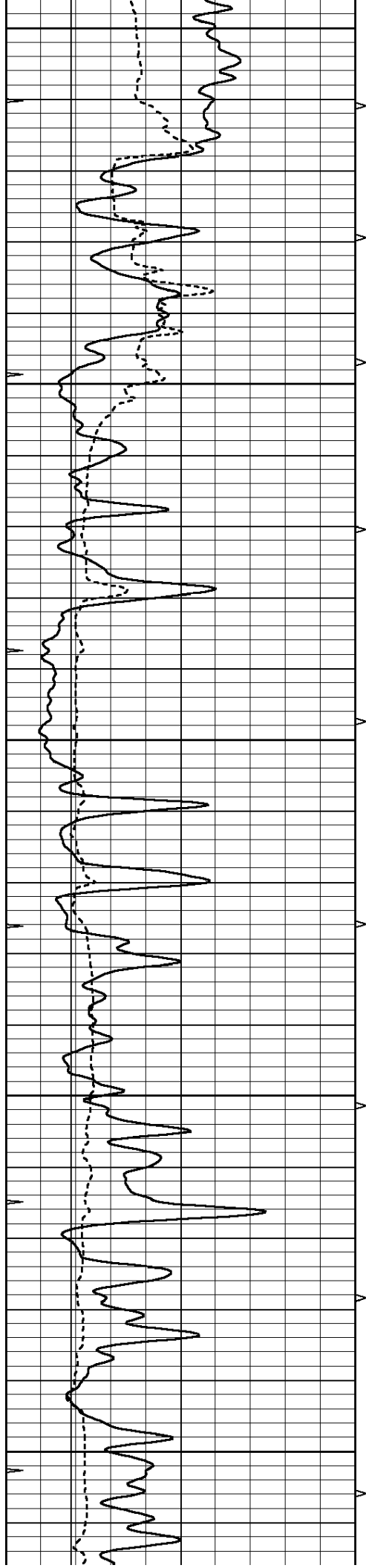


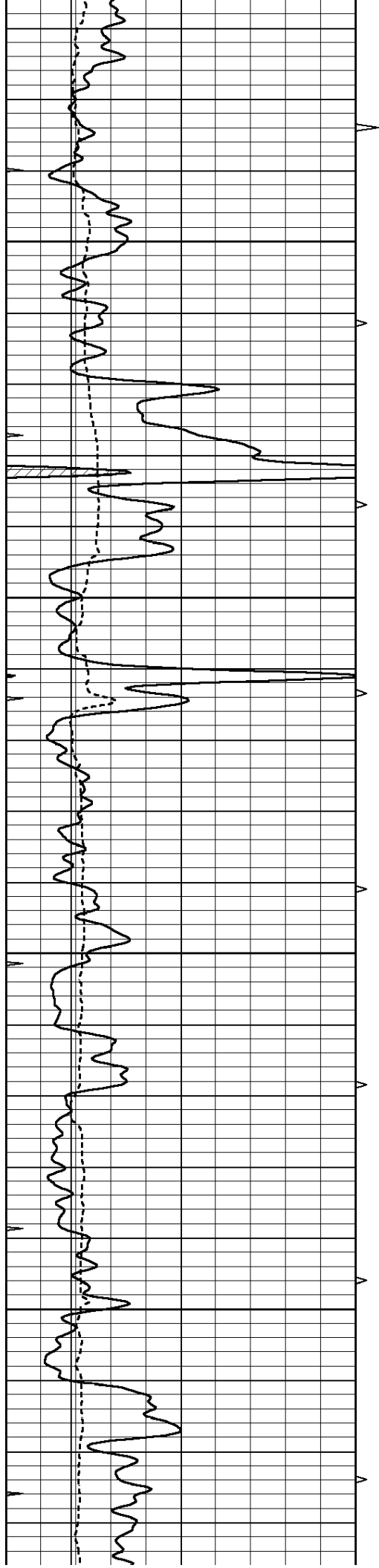










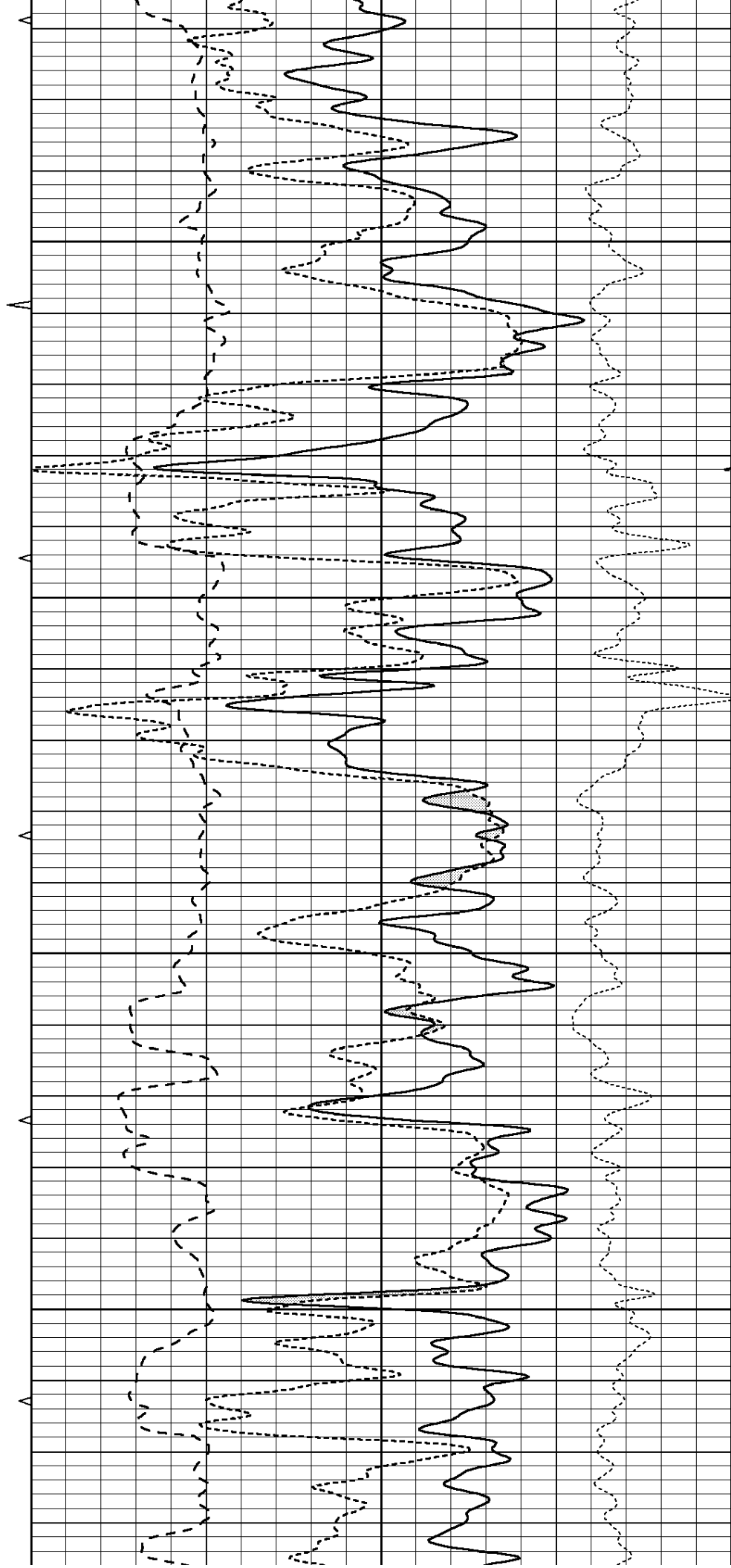


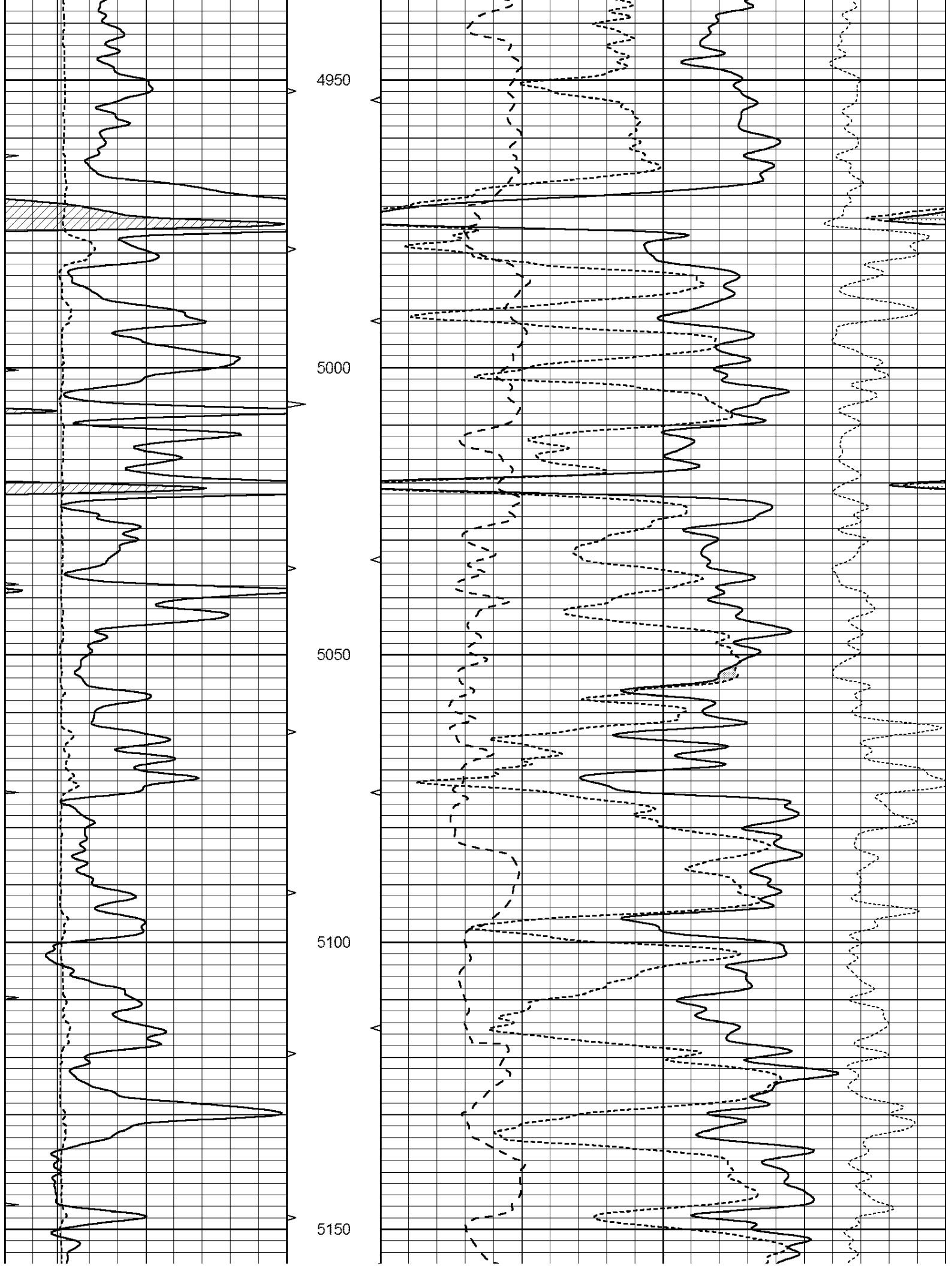
4750

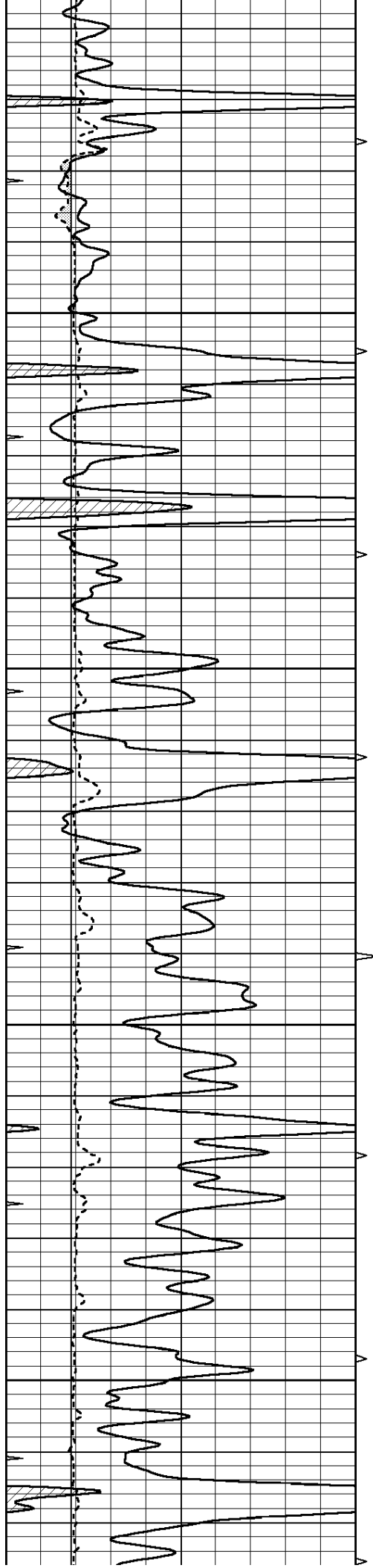
4800

4850

4900





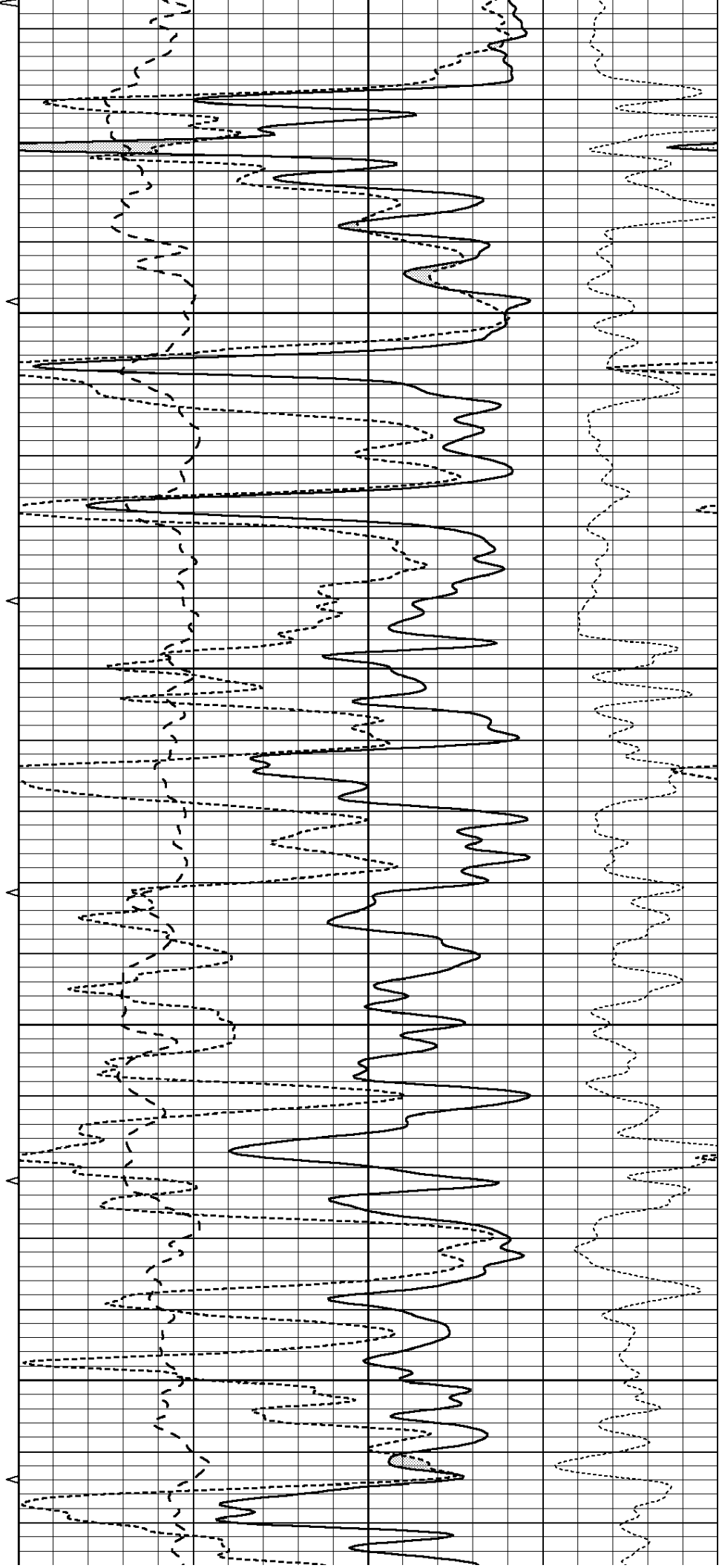


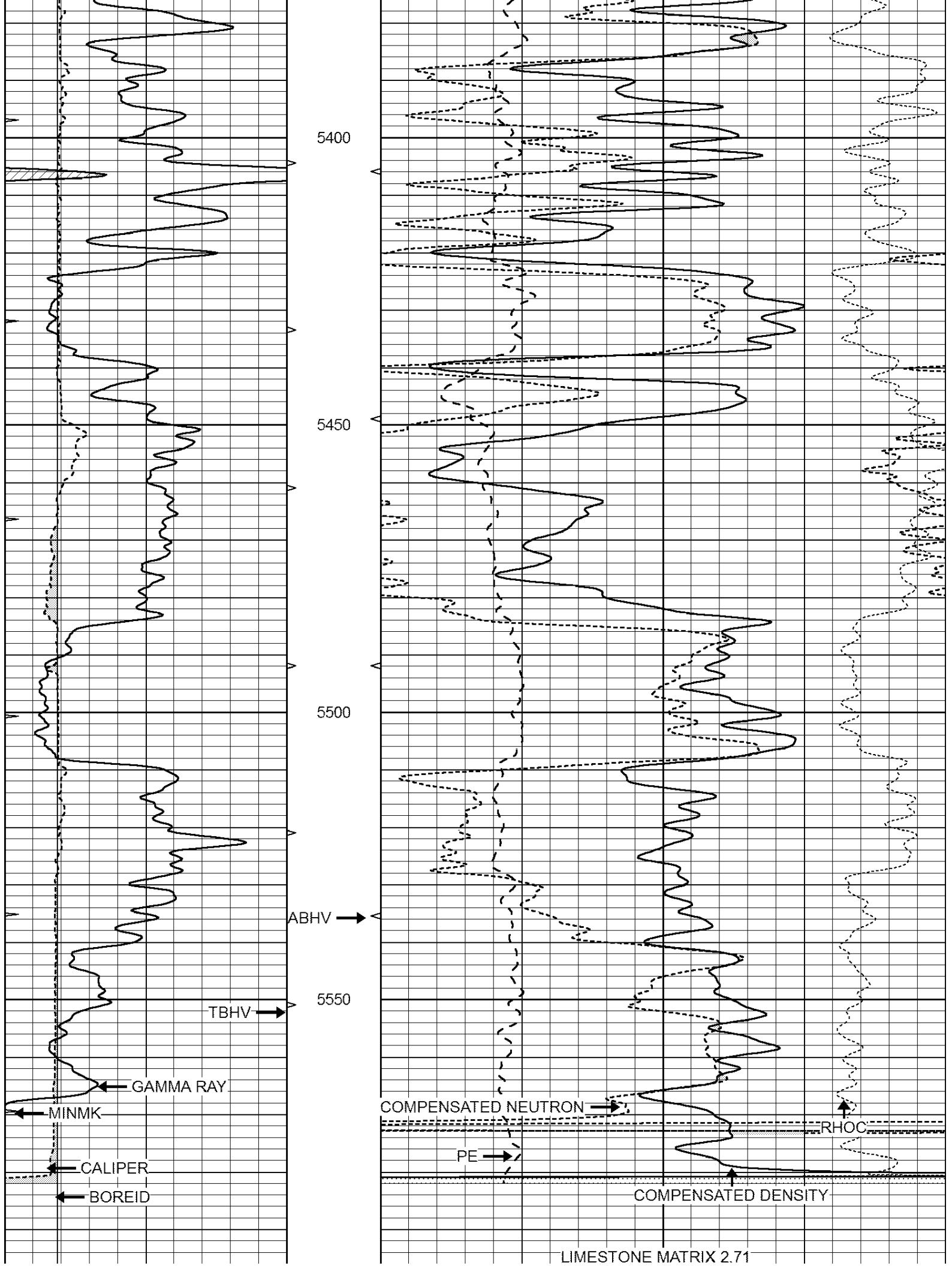
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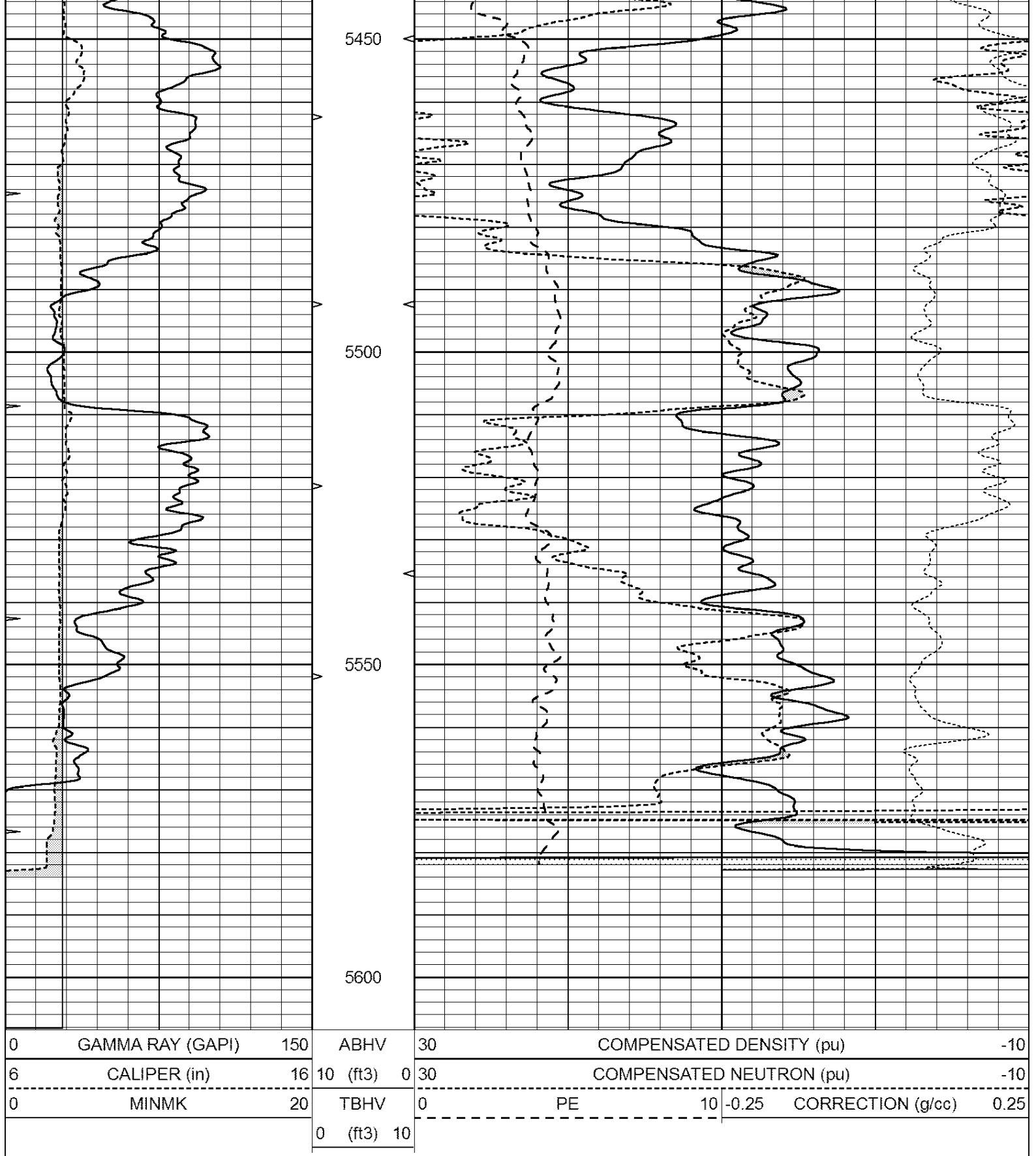
5250

5300

5350







Calibration Report

Database File: 4097pe.db
Dataset Pathname: pass3.1
Dataset Creation: Fri Oct 04 17:31:28 2019

Dual Induction Calibration Report

Serial-Model:
Surface Cal Performed:

PROBE8-DILG
Mon Sep 10 14:28:35 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: 006			Model: PRB					

Master Calibration					Performed Fri Feb 22 09:59:16 2019			
	Background	Magnesium	Aluminum	Sandstone				
Window 1	1164.1	7287.2	2529.1	8656.3	cps			
Window 2	1091.2	5350.1	2037.8	6279.8	cps			
Window 3	821.7	2635.2	1183.7	2961.9	cps			
Window 4	277.9	276.4	275.2	279.7	cps			
Long Space	0.0	4355.6	946.5	5188.6	cps			
Short Space	1.6	1496.1	994.4	1563.6	cps			
Rho		1.7100	2.5960	1.3800	g/cc			
Pe		0.0000	2.5700	1.5500				
Rib Angle	: 44.8	Rib Slope	: 0.993	Density/Spine Ratio	: 0.569			
Spine Angle	: 74.8	Spine Slope	: 3.682	Spine Intercept	: -18.6			

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

Compensated Neutron Calibration Report						
		Serial Number:		6I		
		Tool Model:		G		
CALIBRATION						
Detector		Readings		Target		Normalization
Short Space		1.00	cps	1.00	cps	1.0000
Long Space		1.00	cps	1.00	cps	1.0000
PRE-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
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		Target
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:		Wed Jul 03 12:57:34 2019		
Calibrator Value:		150.0	GAPI	
Background Reading:		0.0	cps	
Calibrator Reading:		276.0	cps	
Sensitivity:		0.5700	GAPI/cps	

