



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company	WOOLSEY OPERATING CO. LLC.		
Well	TUCKER A G.U. #2		
Field	TRAFFAS SOUTH		
County	BARBER		
State	KANSAS		
Company	WOOLSEY OPERATING COMPANY, LLC.		
Well	TUCKER A G.U. #2		
Field	TRAFFAS SOUTH		
County	BARBER		
State	KANSAS		
Location:	API # : 15-007-23482-0000		Other Services
	2310' FNL & 660' FEL		DIL
	SEC 29 TWP 33S RGE 10W		
Permanent Datum	GROUND LEVEL	Elevation	1452
Log Measured From	KELLY BUSHING 11' A.G.L.		K.B. 1463
Drilling Measured From	KELLY BUSHING		D.F. 1461
			G.L. 1452
Date	1/28/10		
Run Number	CNE		
Depth Driller	5090		
Depth Logger	5092		
Bottom Logged Interval	5068		
Top Log Interval	1600		
Casing Driller	10 3/4"@228'		
Casing Logger	224		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2,000 PPM	
Density / Viscosity	9.0/58		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.950@84F		
Rmf @ Meas. Temp	.713@84F		
Rmc @ Meas. Temp	1.14@84F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.633@126F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	11:00 P.M.		
Maximum Recorded Temperature	126F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	SCOTT ALBERG		

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
SHARON, KS. S.E CORNER, TAKE BLKTOP TO "TRI CITY RD.", 7S. TO "KOCHIA RD.", 1W. TO
"BLUESTEM RD.", 1 BACK N. W. INTO@TANK BATTERY

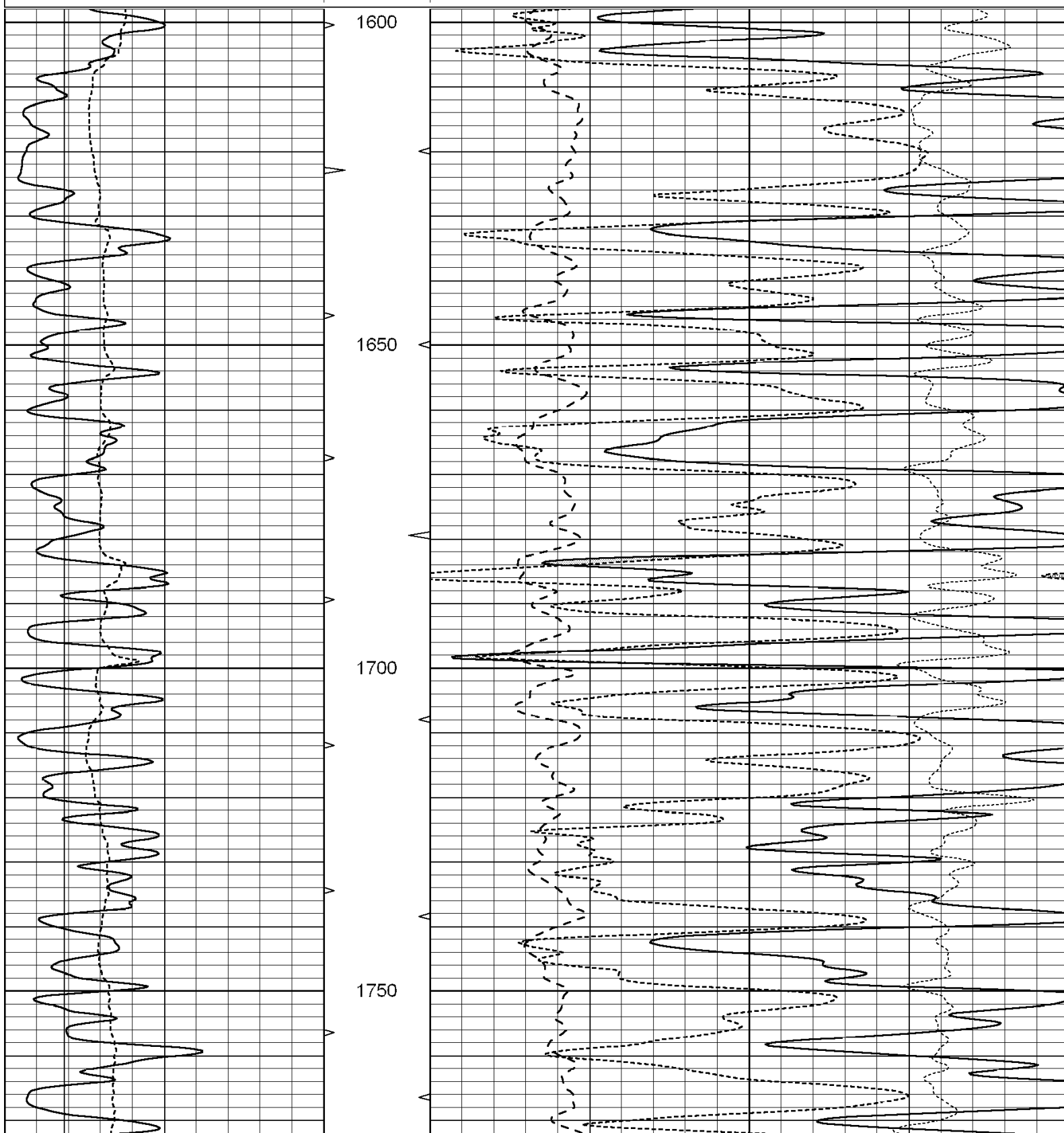


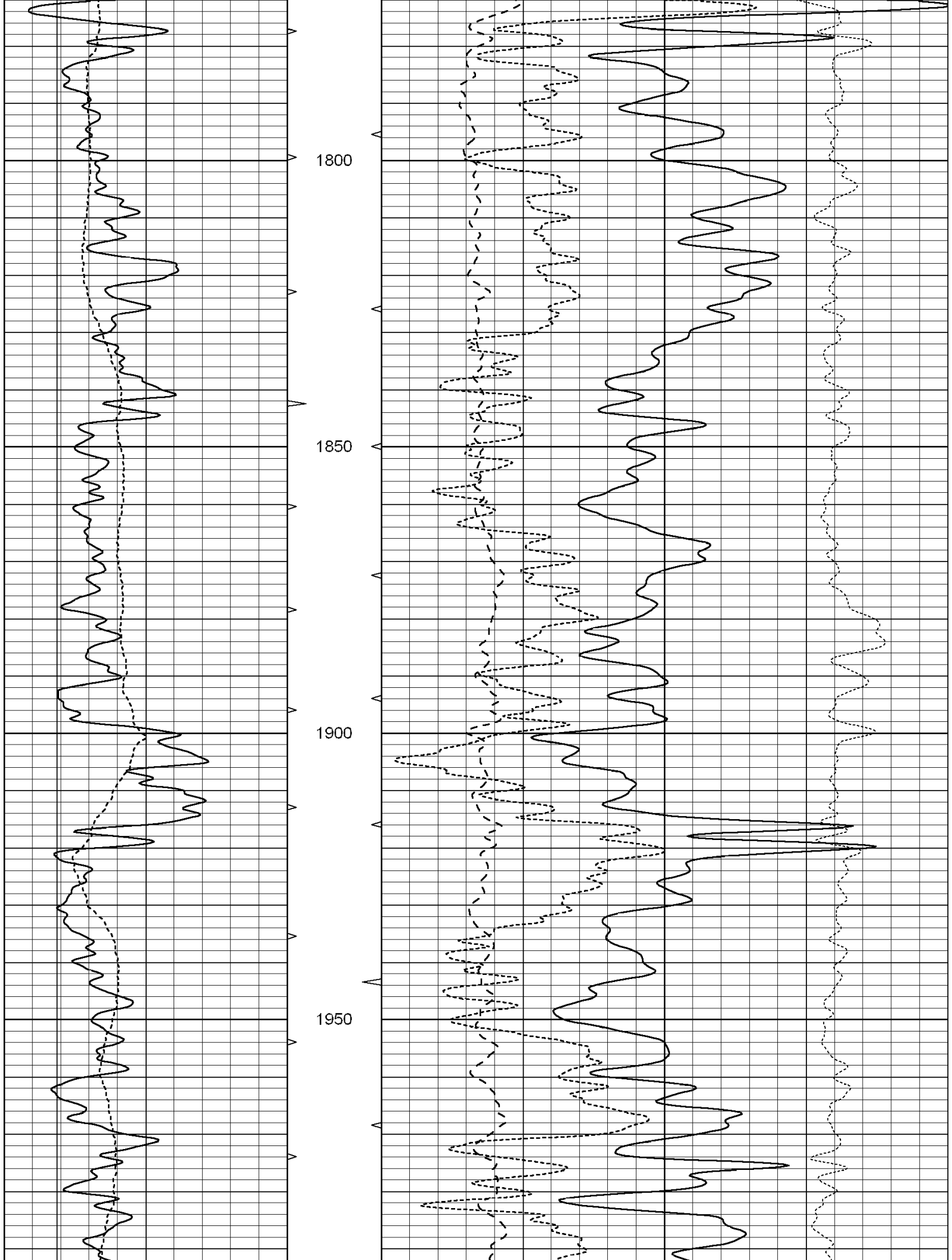
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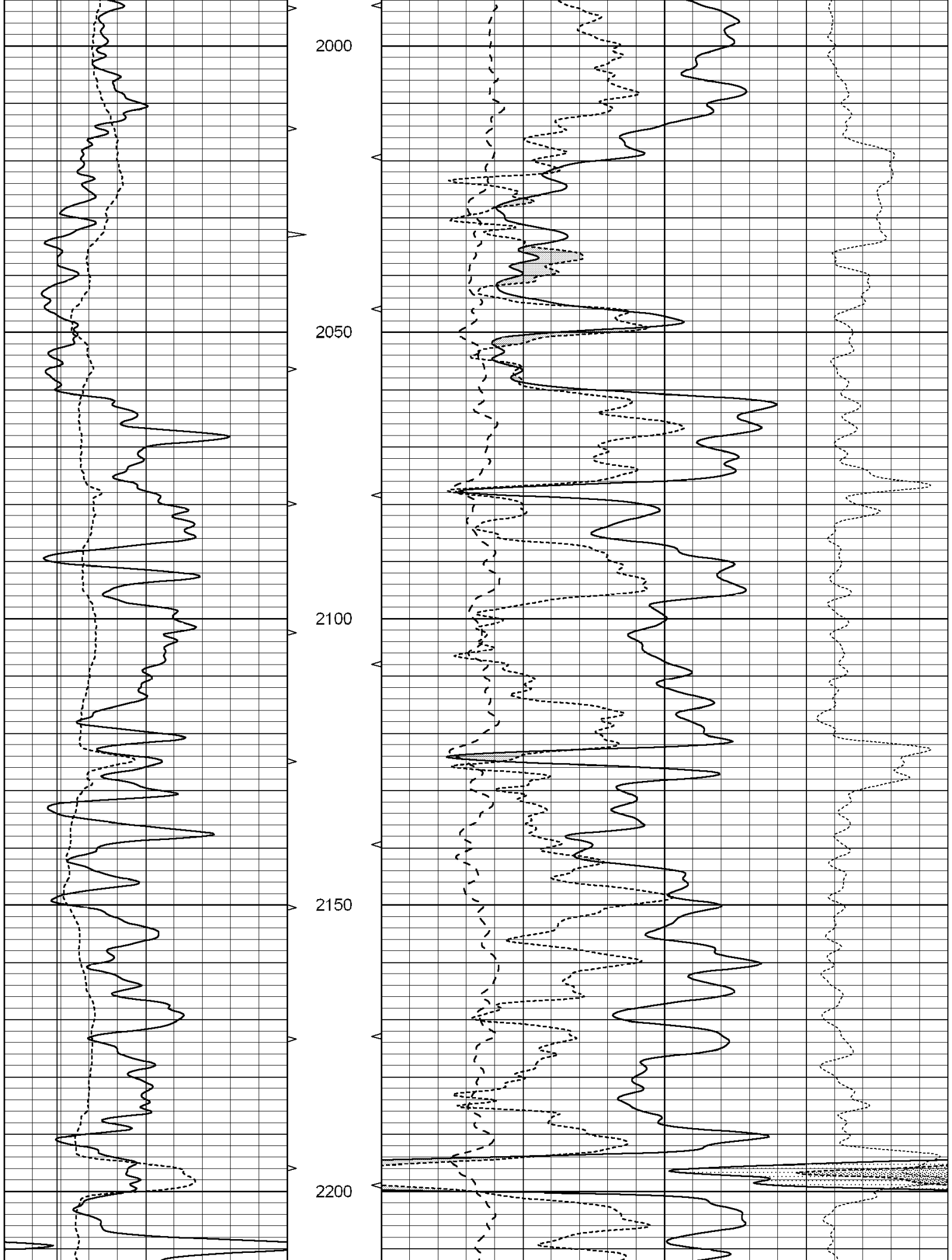
MAIN SECTION

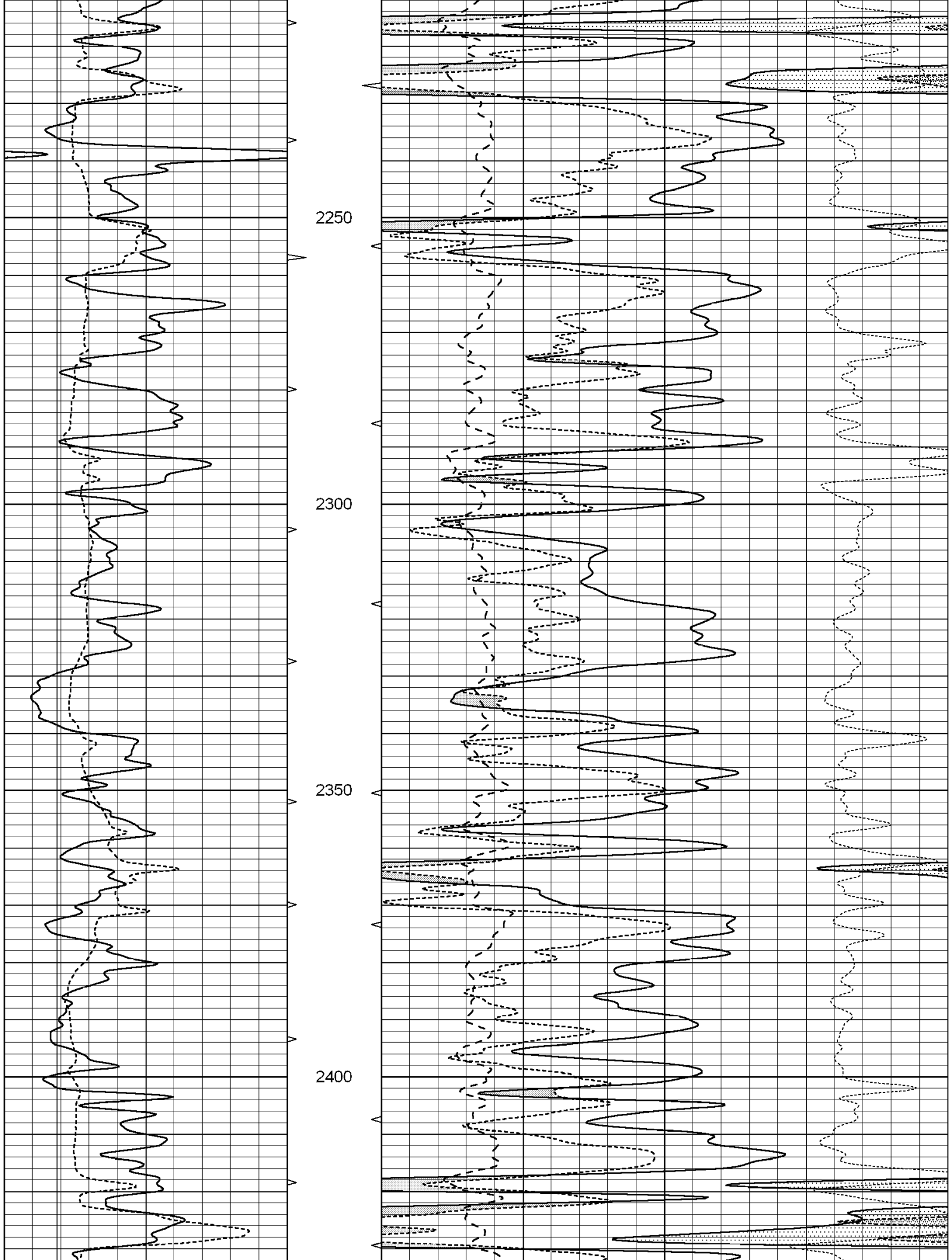
Database File: 004710pe.db
Dataset Pathname: pass3.2
Presentation Format: ldt_neu
Dataset Creation: Thu Jan 28 01:17:14 2010 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

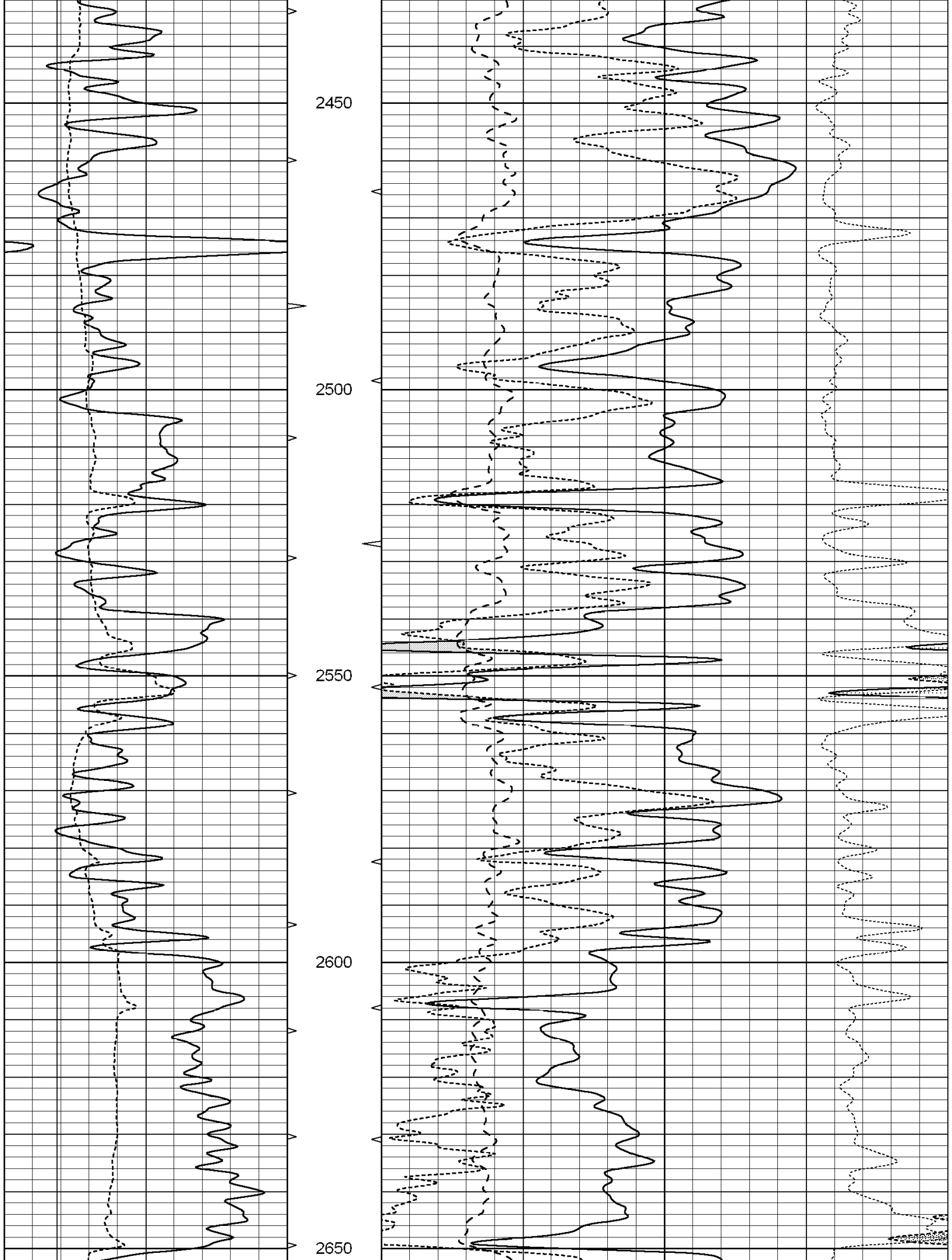
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			

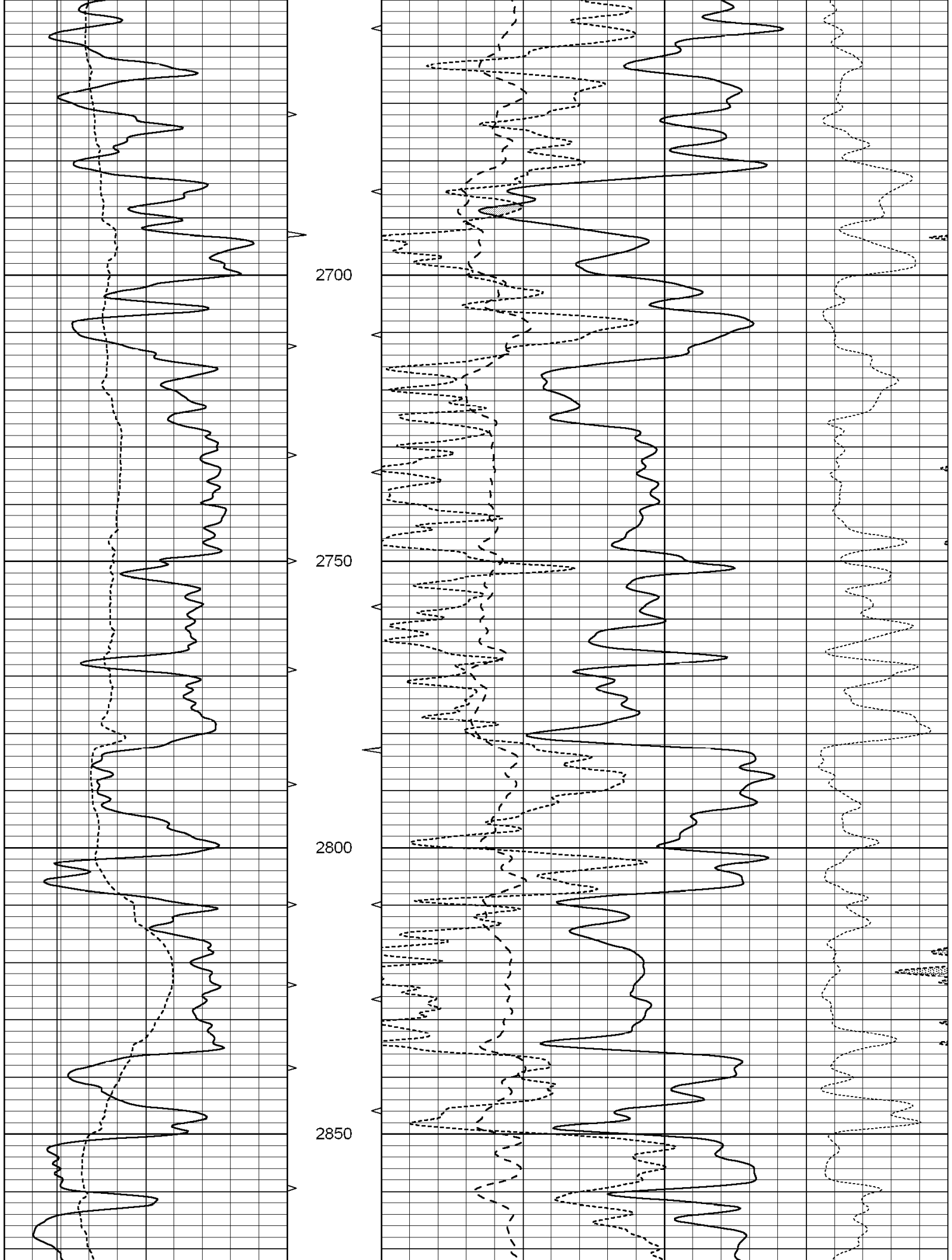


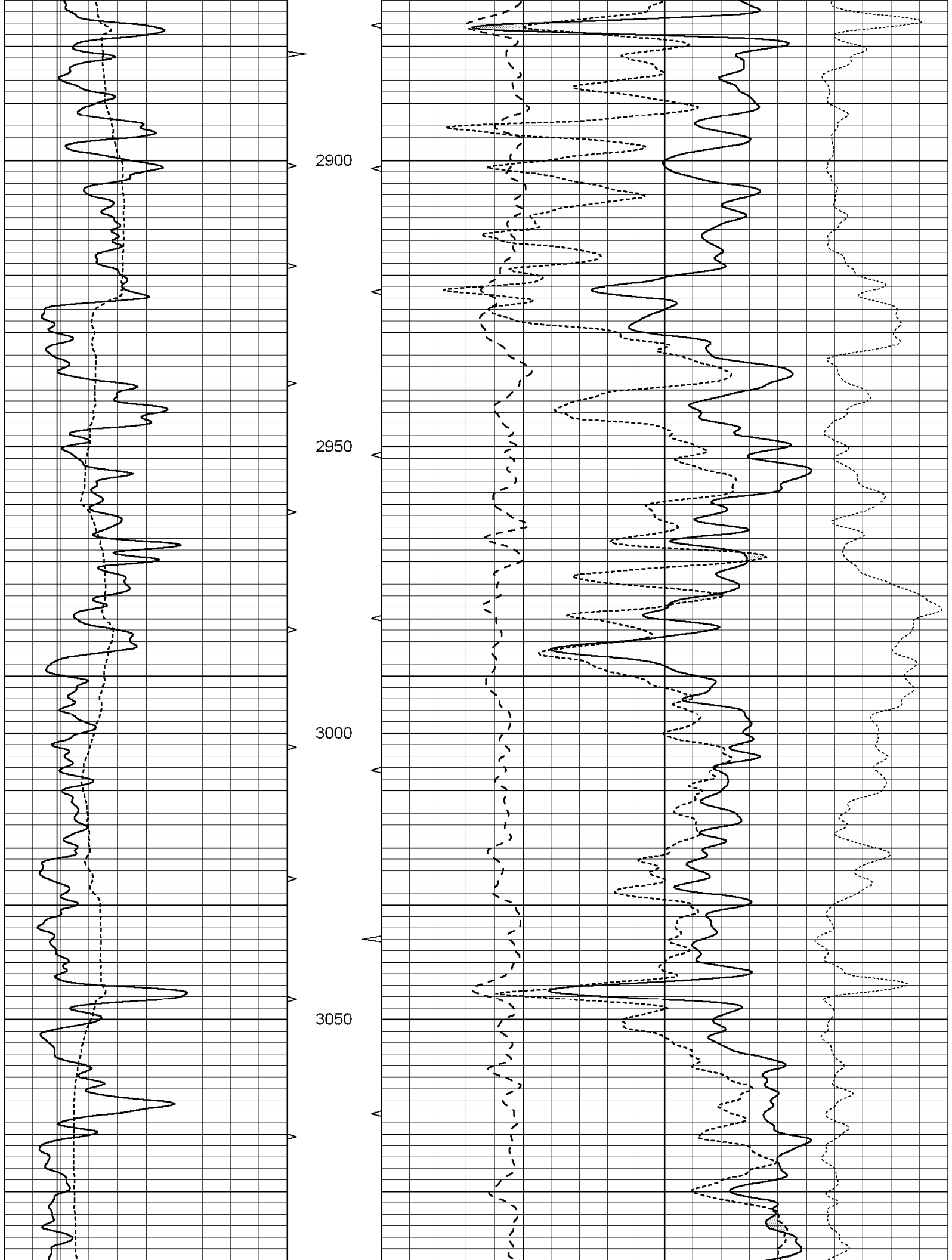


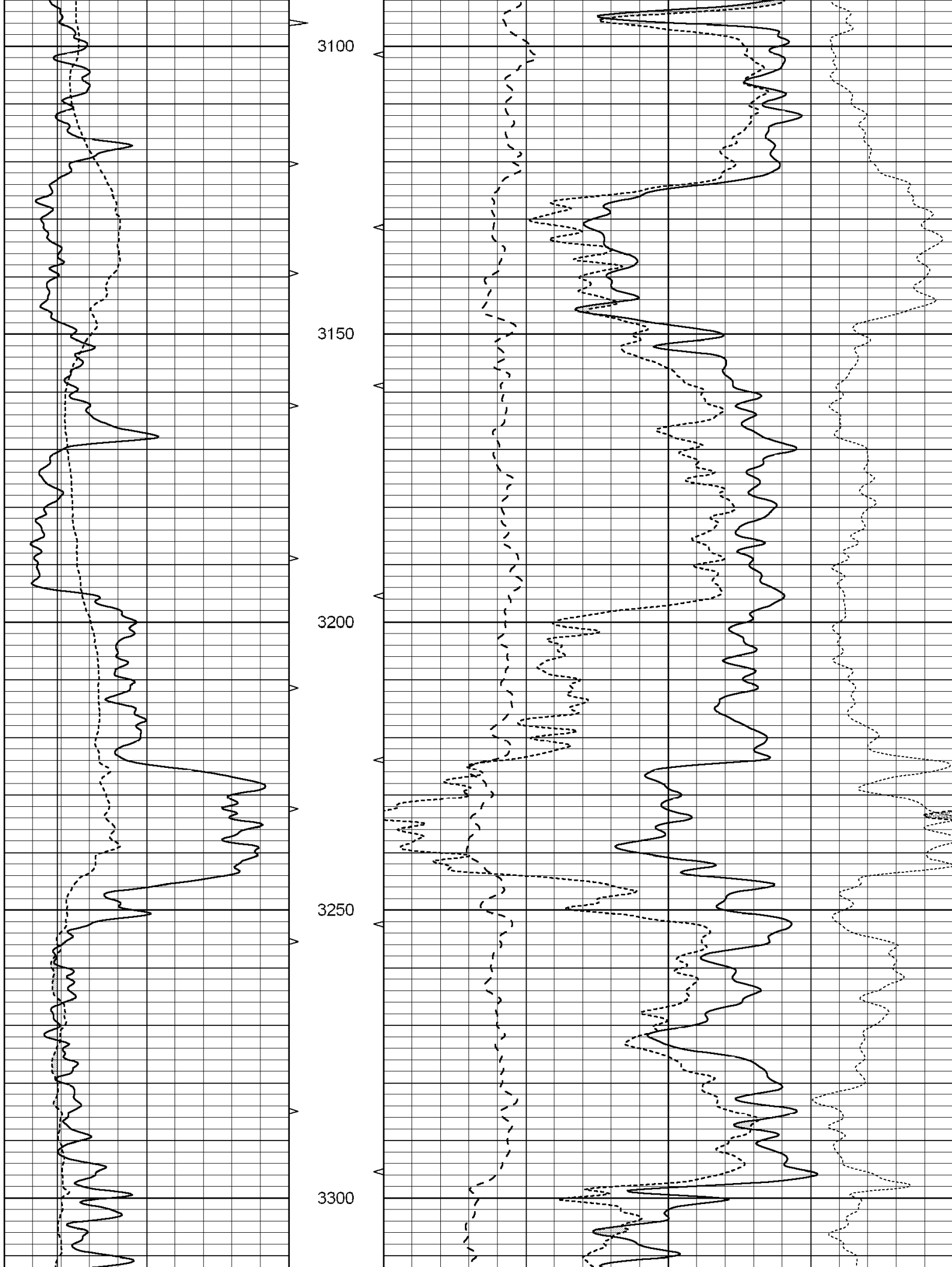


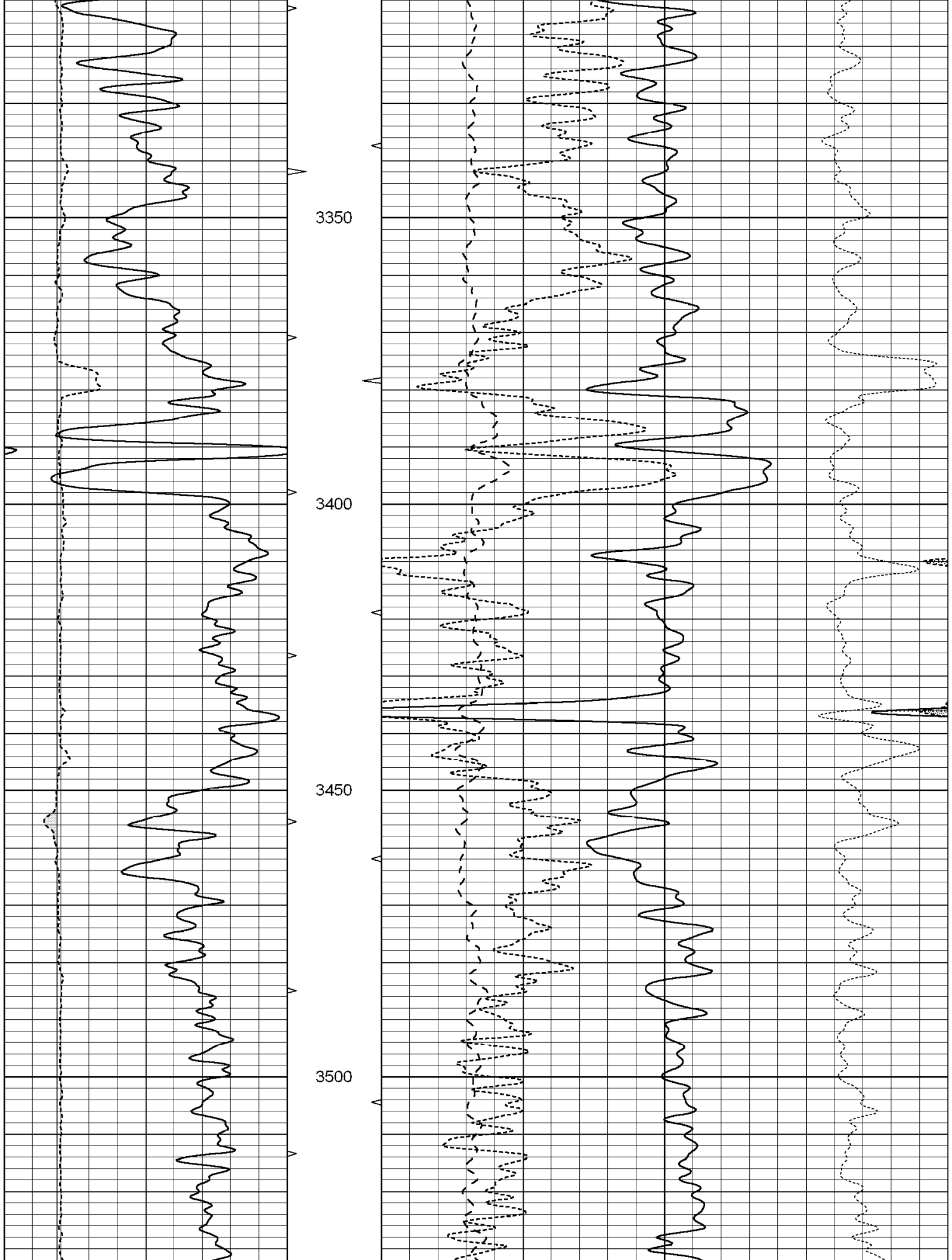


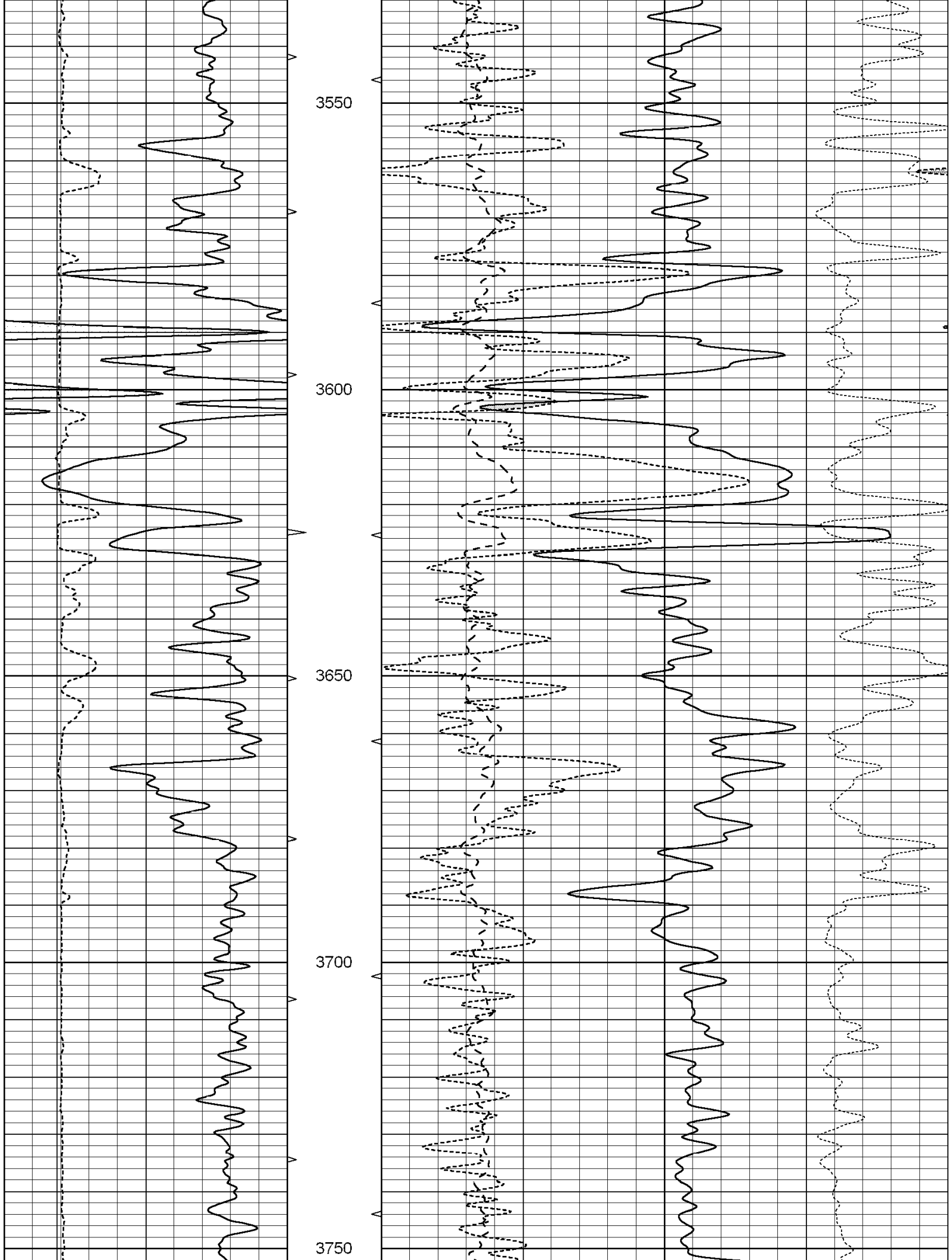


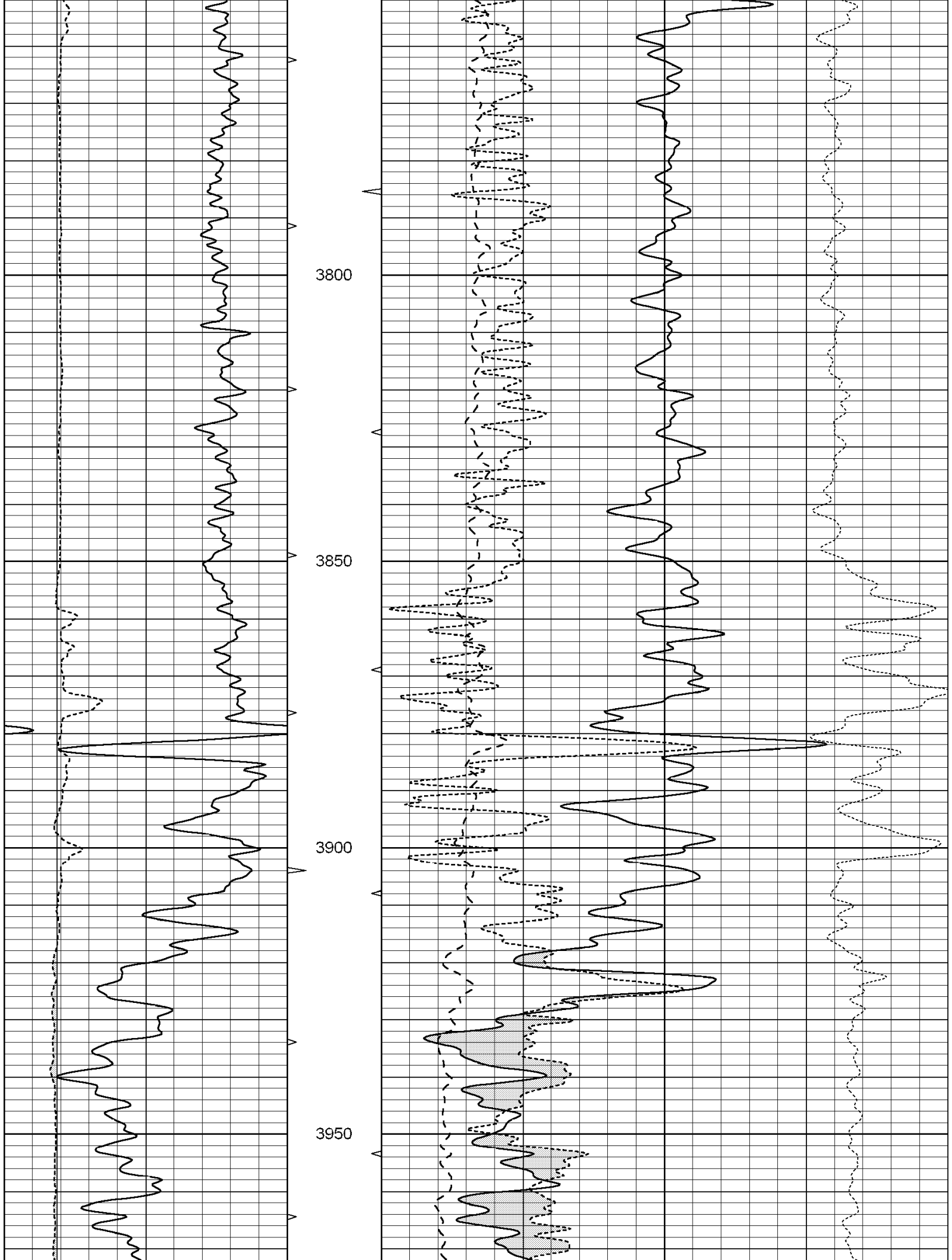


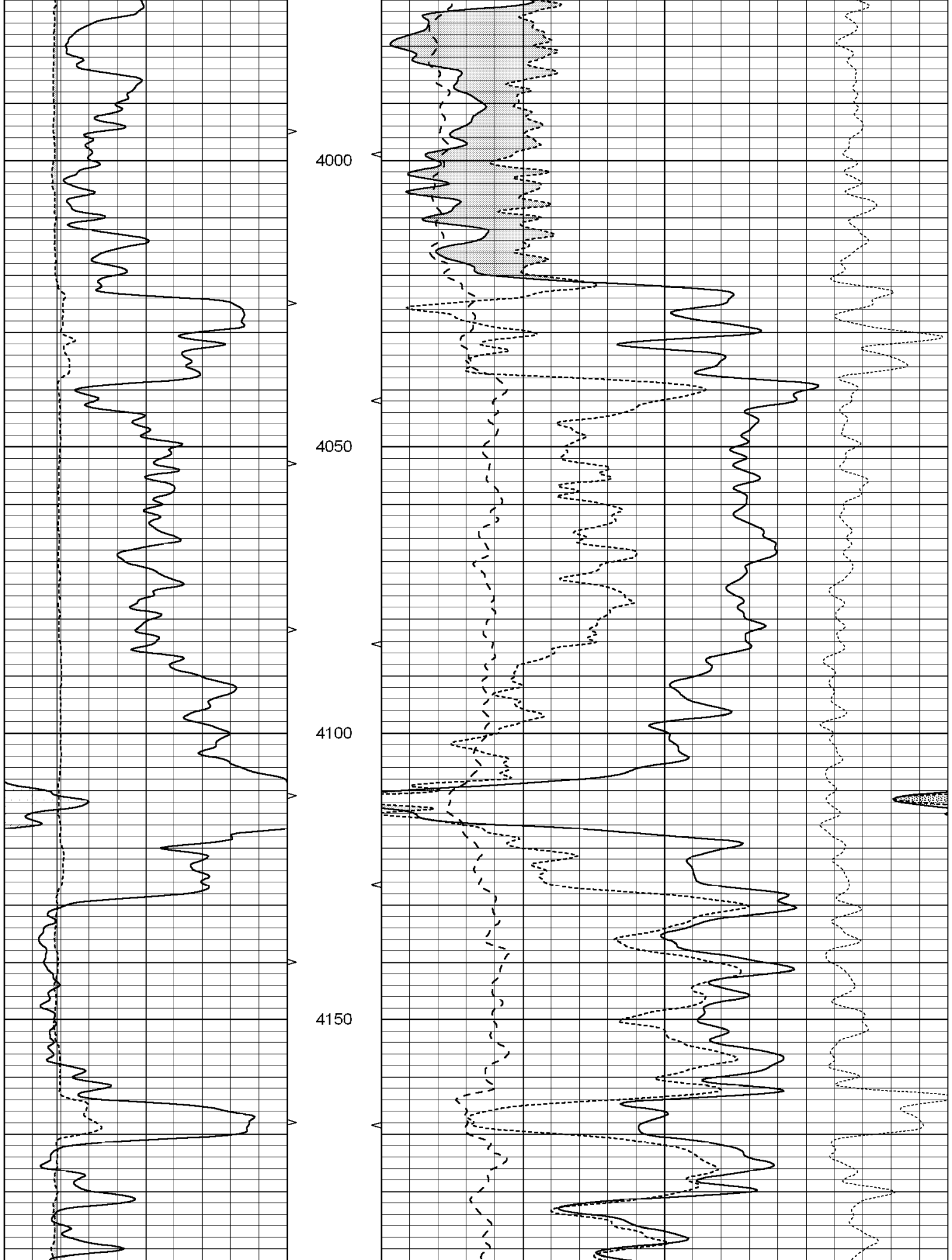


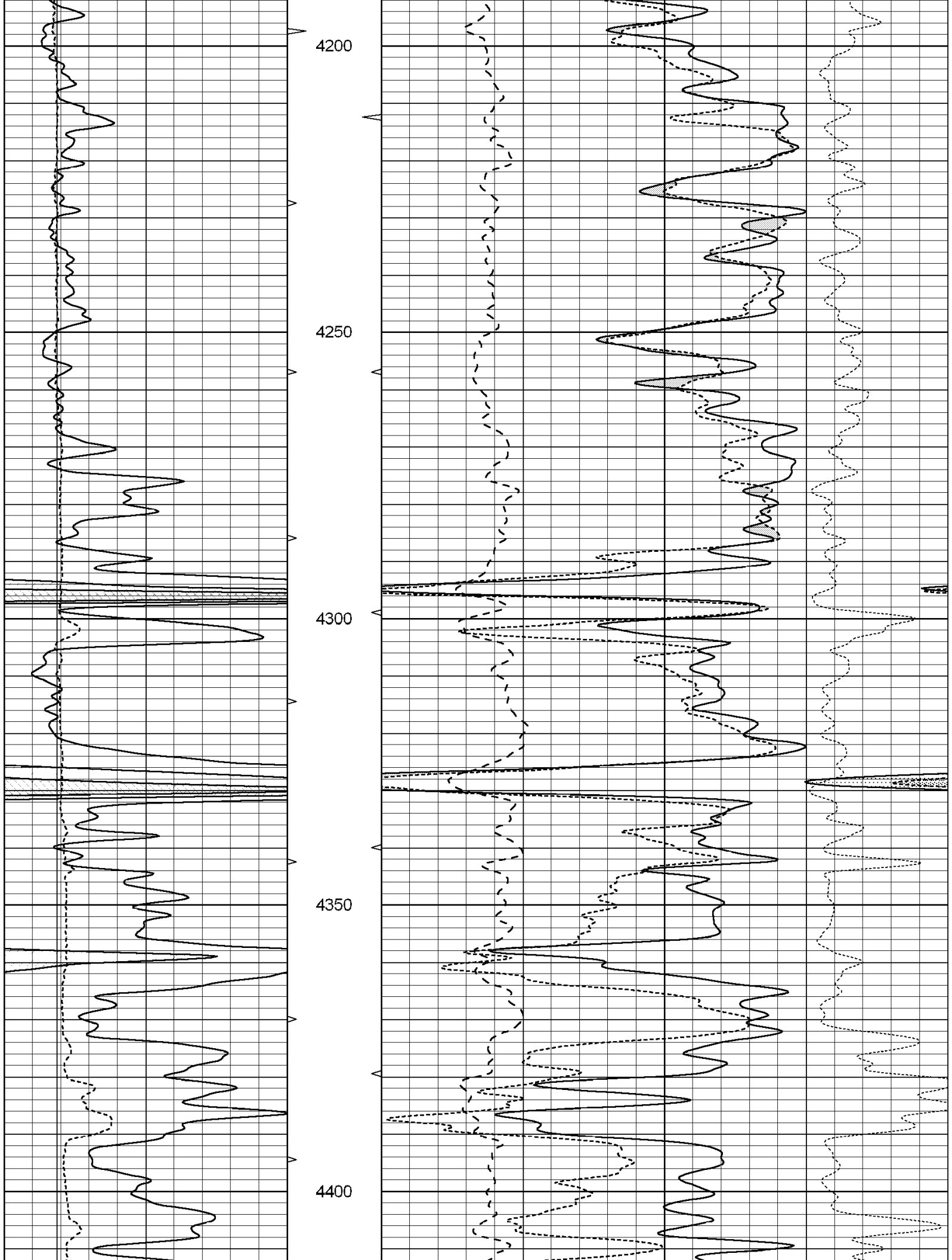


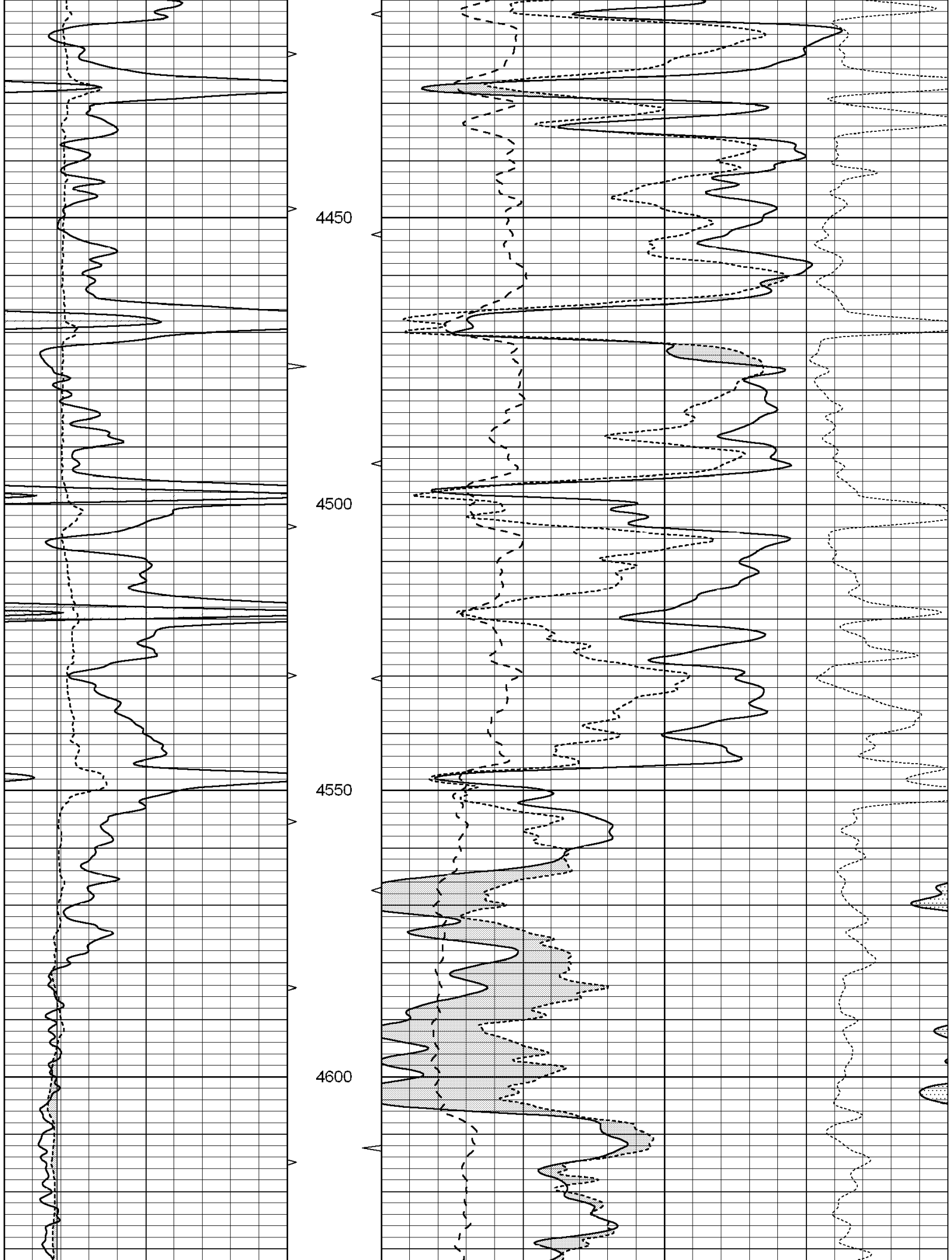


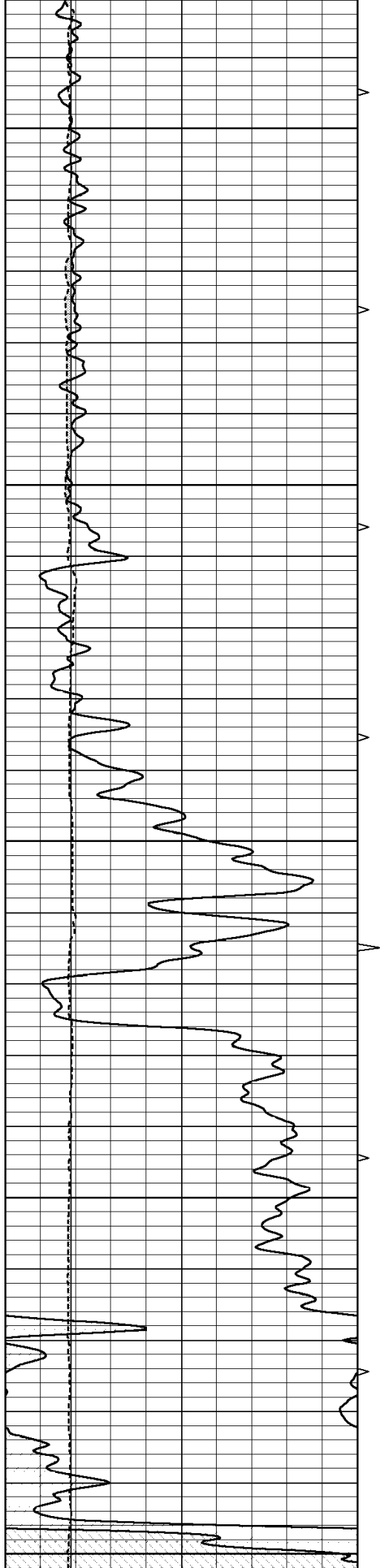












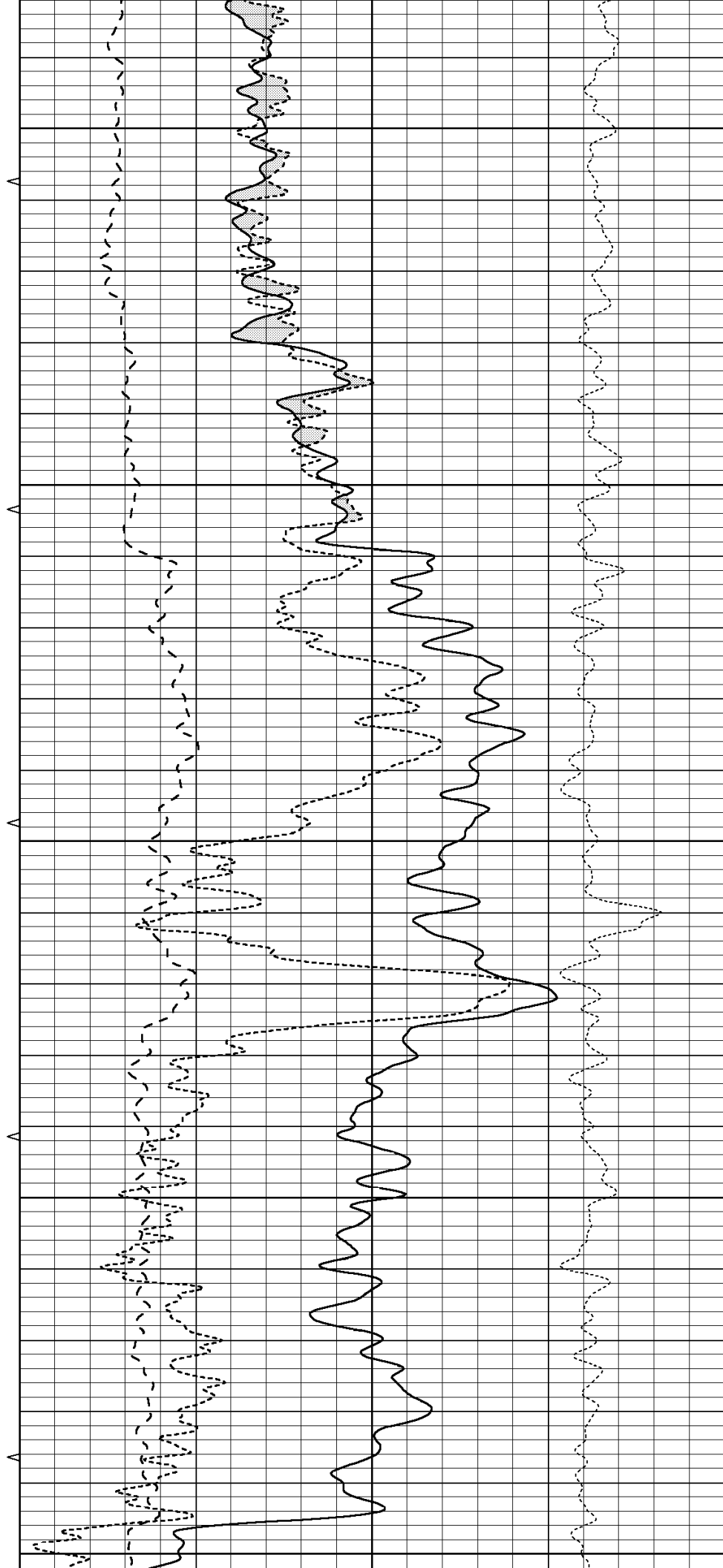
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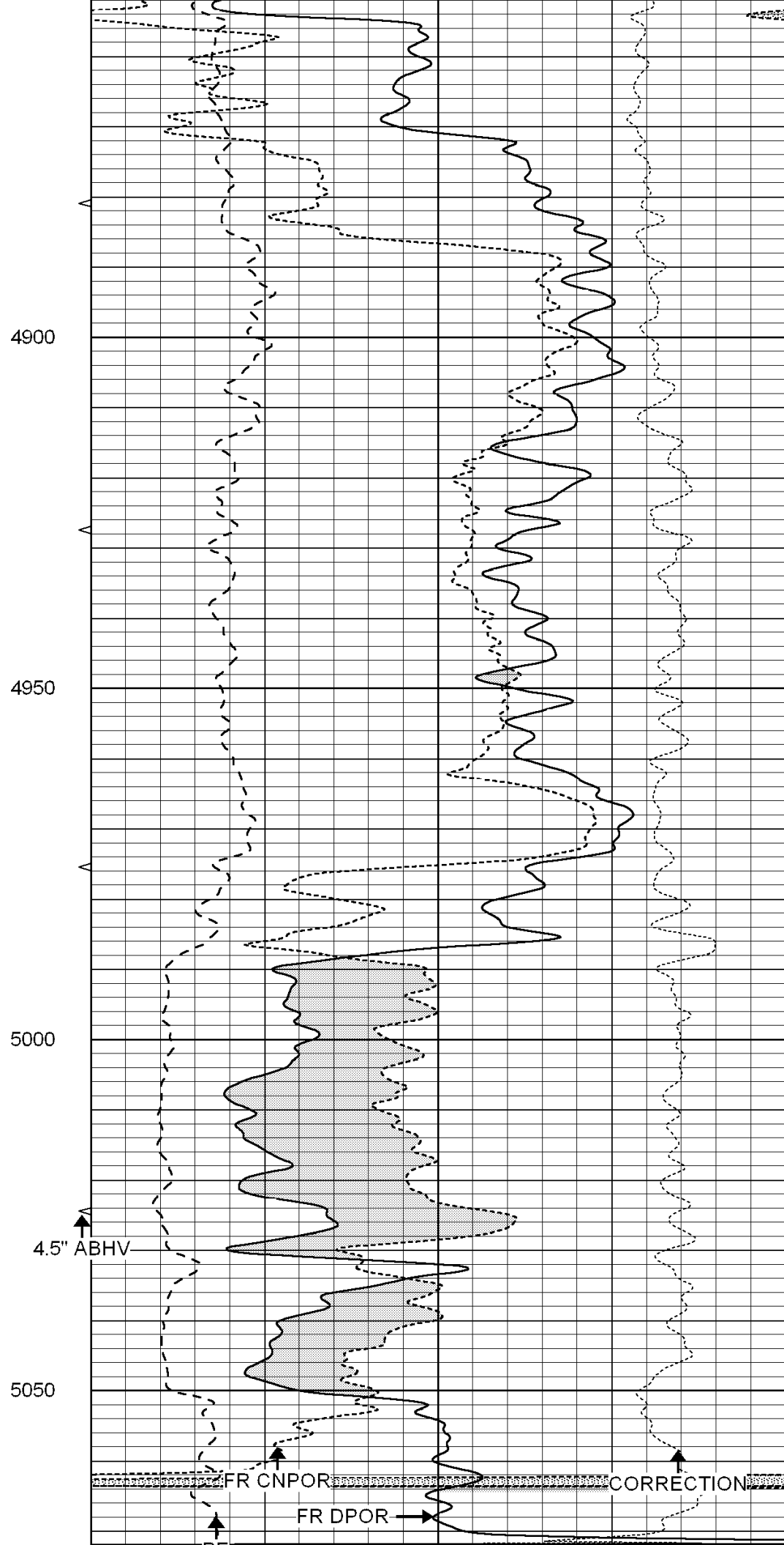
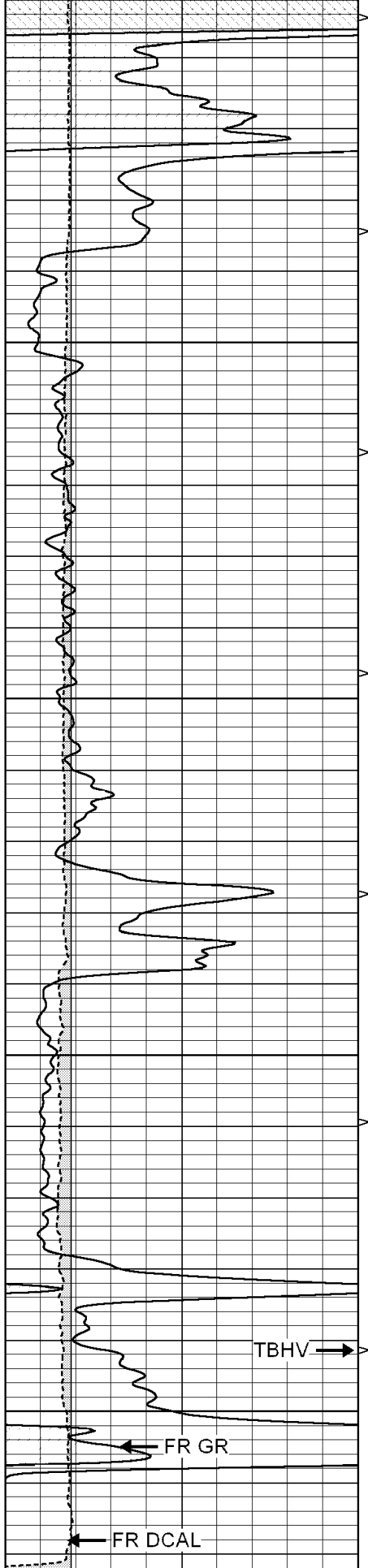
4700

4750

4800

4850





										LTD 5092										2.71 LIMESTONE MATRIX									
0 GAMMA RAY (GAPI) 150										ABHV										30 COMPENSATED DENSITY (pu) -10									
6 CALIPER (in) 16										10 (ft3) 0										30 COMPENSATED NEUTRON (pu) -10									
										TBHV										0 PE 10 -0.25 CORRECTION (g/cc) 0.25									
										0 (ft3) 10																			

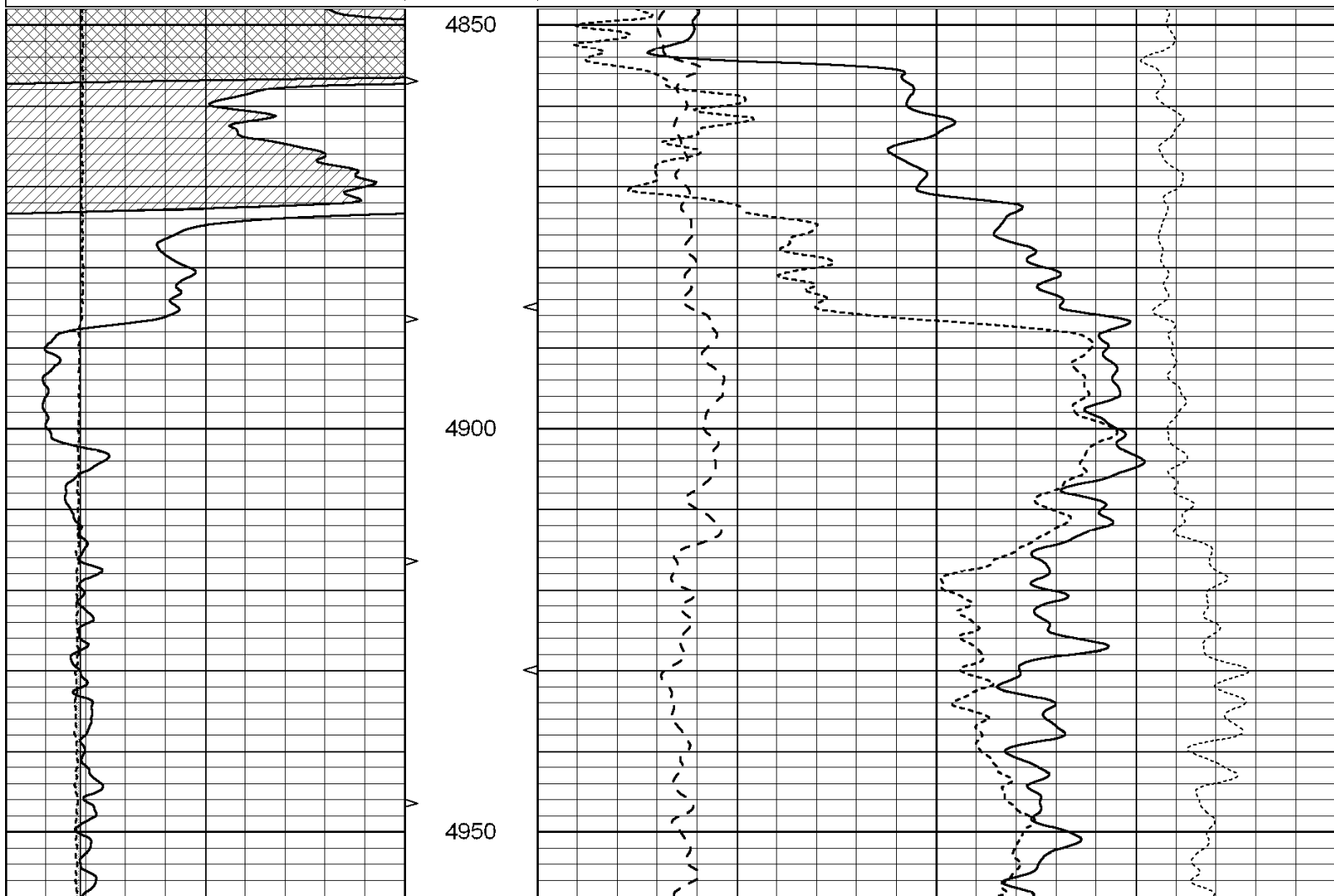


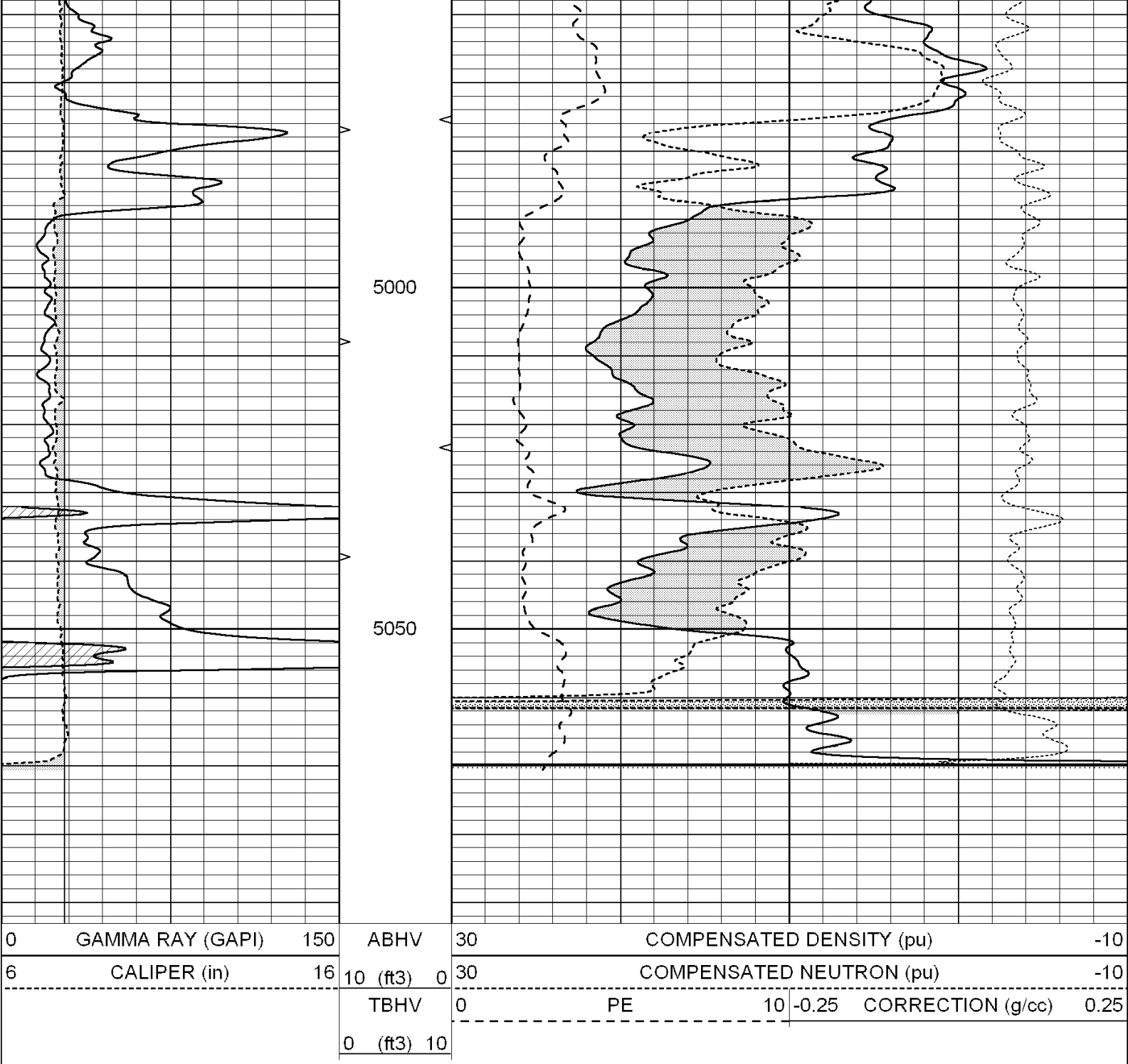
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REPEAT SECTION

Database File: 004710pe.db
Dataset Pathname: pass2.7
Presentation Format: ldt_neu
Dataset Creation: Thu Jan 28 00:21:30 2010 by Calc Open-Cased 060407
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
			TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10						





Calibration Report								
Database File:		004710pe.db						
Dataset Pathname:		pass3.2						
Dataset Creation:		Thu Jan 28 01:17:14 2010 by Calc Open-Cased 060407						
Dual Induction Calibration Report								
Serial-Model: Performed:			DIL6-GEAR Wed Jan 27 23:21:57 2010					
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.644	V	0.000	400.000	mmho-m	660.000	-2.000
Medium	0.020	0.738	V	0.000	462.500	mmho-m	740.000	-25.000
Internal:	Zero	Cal		Zero	Cal		m	b

Deep	0.000	1.000	V	0.000	1.000	mmho-m	1.000	0.000
Medium	0.000	1.000	V	0.000	1.000	mmho-m	1.000	0.000
Litho Density Calibration Report Serial: 004N Model: PRB Performed Tue Sep 08 13:49:55 2009								
Litho Density Calibration								
	Background	Magnesium		Aluminum		Sandstone		
Window 1	1535.8	11161.3		3721.6		12498.8		cps
Window 2	1402.6	9435.7		3219.7		10417.7		cps
Window 3	1077.6	4422.0		1779.2		4753.4		cps
Window 4	337.3	342.8		337.4		343.7		cps
Long Space	0.0	8033.1		1817.0		9015.1		cps
Short Space	1.2	1671.8		1138.1		1813.0		cps
Rho		1.7100		2.5900		1.3800		g/cc
Pe				2.5700		1.5500		
Rib Angle	: 45.5	Rib Slope	: 1.017	Density/Spine Ratio			: 0.573	
Spine Angle	: 75.5	Spine Slope	: 3.865	Spine Intercept			: -19.7	
Caliper								
	Readings	Reference						
Low Ref	1.1	6.8						
High Ref	3.0	14.0						
	Gain: 3.8			Offset: 2.7				
Compensated Neutron Calibration Report								
	Serial Number:	NEU_4I						
	Tool Model:	G						
CALIBRATION								
	Detector	Readings		Target		Normalization		
	Short Space	996.00 cps		1000.00 cps		1.0000		
	Long Space	977.00 cps		1000.00 cps		1.0000		
Gamma Ray Calibration Report								
Serial Number:	GR4							
Tool Model:	OPEN							
Performed:	Wed Jan 27 23:21:41 2010							
Calibrator Value:	200.0		GAPI					
Background Reading:	0.0		cps					
Calibrator Reading:	189.0		cps					
Sensitivity:	0.7000		GAPI/cps					