



SUPERIOR
Hays,
Kansas

COMPENSATED
NEUTRON / DENSITY
PE LOG

Company	WOOLSEY OPERATING COMPANY, LLC.		
Well	JAHAY #5		
Field	KOCHIA POOL		
County	BARBER	State	KANSAS
Location:	APL # : 15-007-23872-0000 1025' FSL & 2190' FWL NW - NE - SE - SW		Other Services DIL
Permanent Datum	SEC 31 TWP 33S RGE 10W	Elevation	
Log Measured From	GROUND LEVEL	Elevation	1453
Drilling Measured From	KELLY BUSHING 13' A.G.L. KELLY BUSHING	D.F. 1464 G.L. 1453	
Date	5/21/12		
Run Number	ONE		
Depth Driller	5145		
Depth Logger	5150		
Bottom Logged Interval	5126		
Top Log Interval	1750		
Casing Driller	10 3/4" @ 217'		
Casing Logger	NA		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4000 PPM	
Density / Viscosity	9.2/45		
pH / Fluid Loss	10.0/9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.75 @ 86F		
Rmf @ Meas. Temp	.56 @ 86F		
Rmc @ Meas. Temp	.90 @ 86F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.51 @ 126F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	126F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
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 (785) 628-6395
DIRECTIONS
MEDICINE LODGE, KS. - 9 S. TO GERLANE RD. - 9 E. - N. INTO

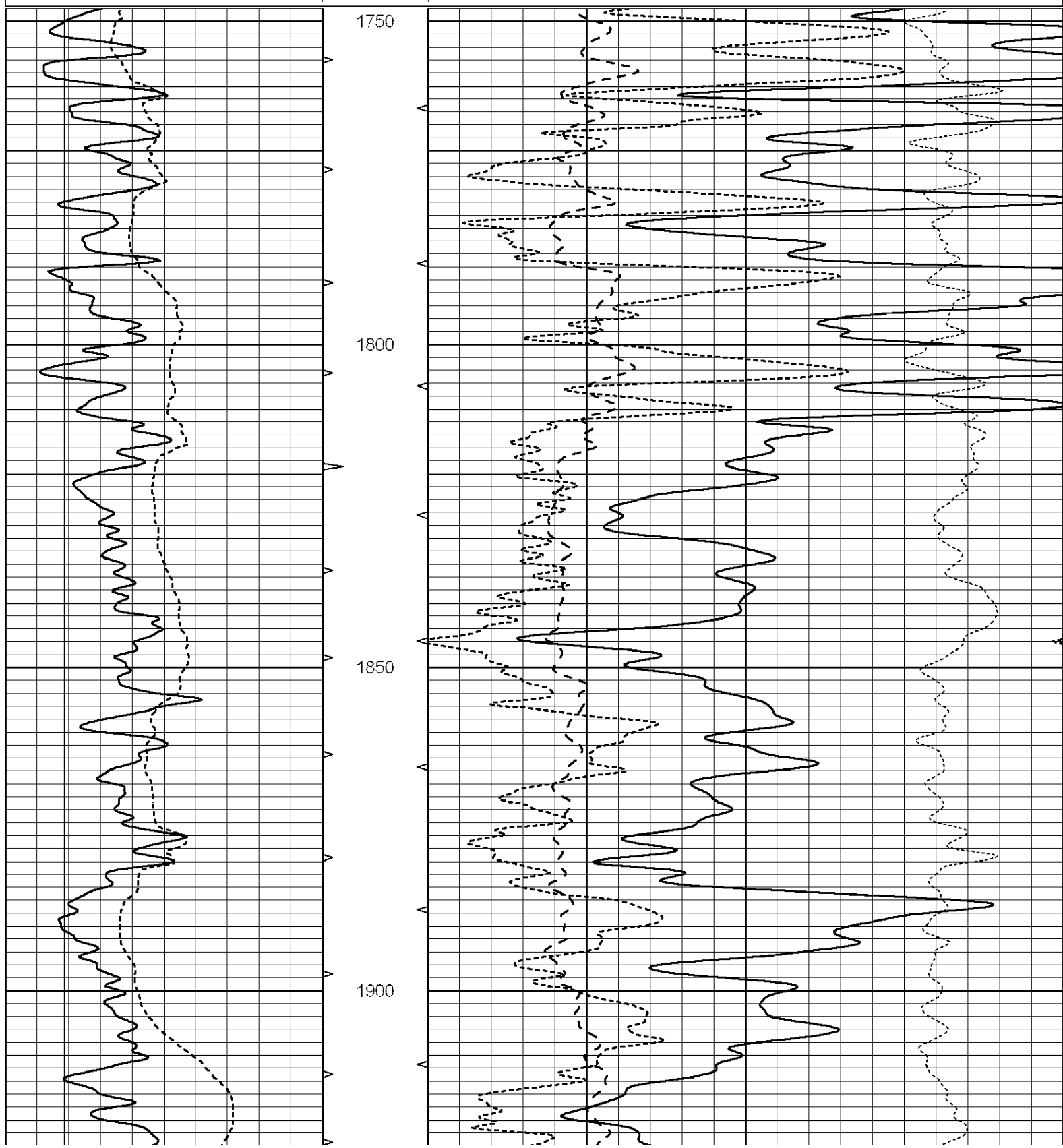


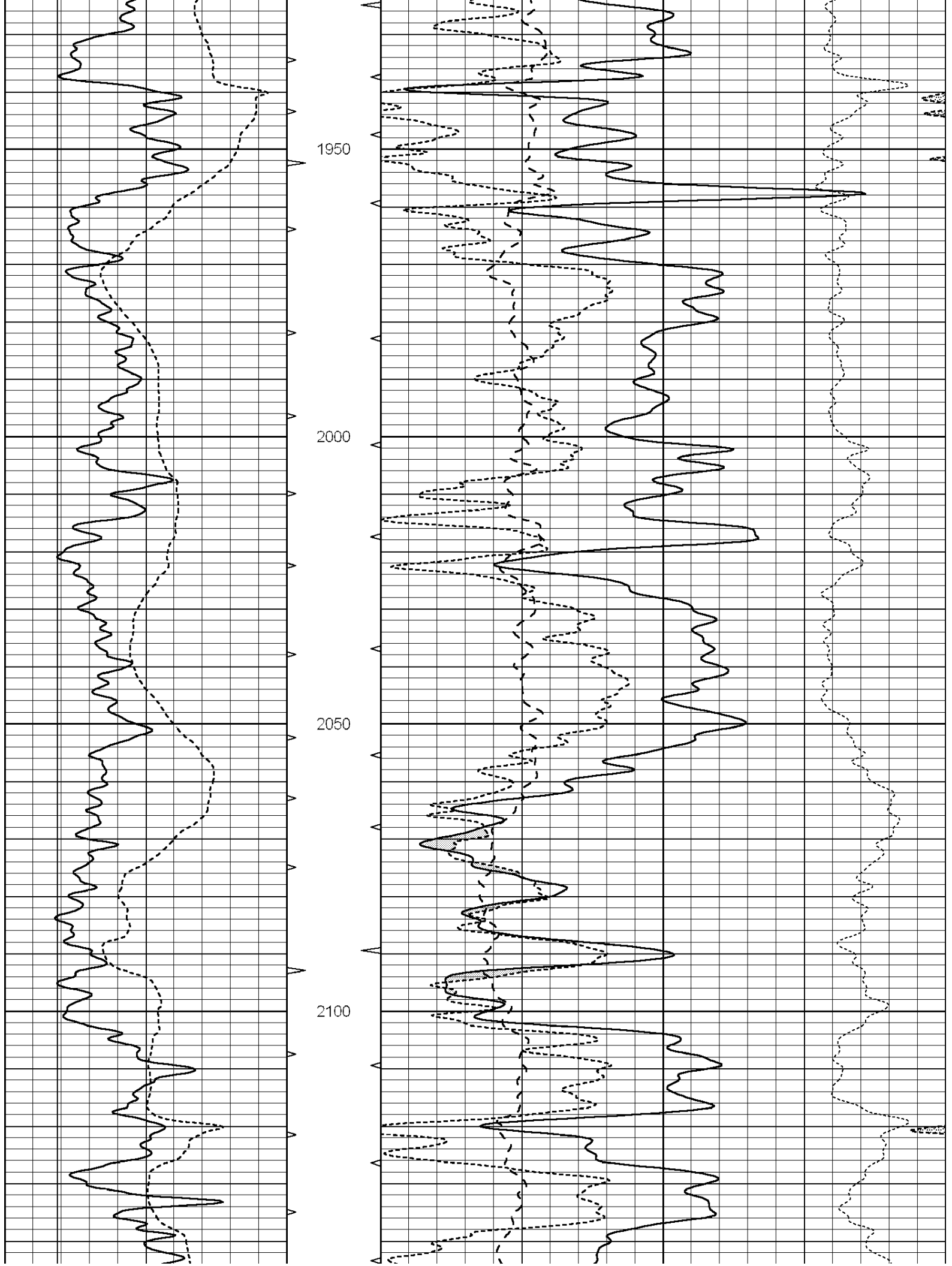
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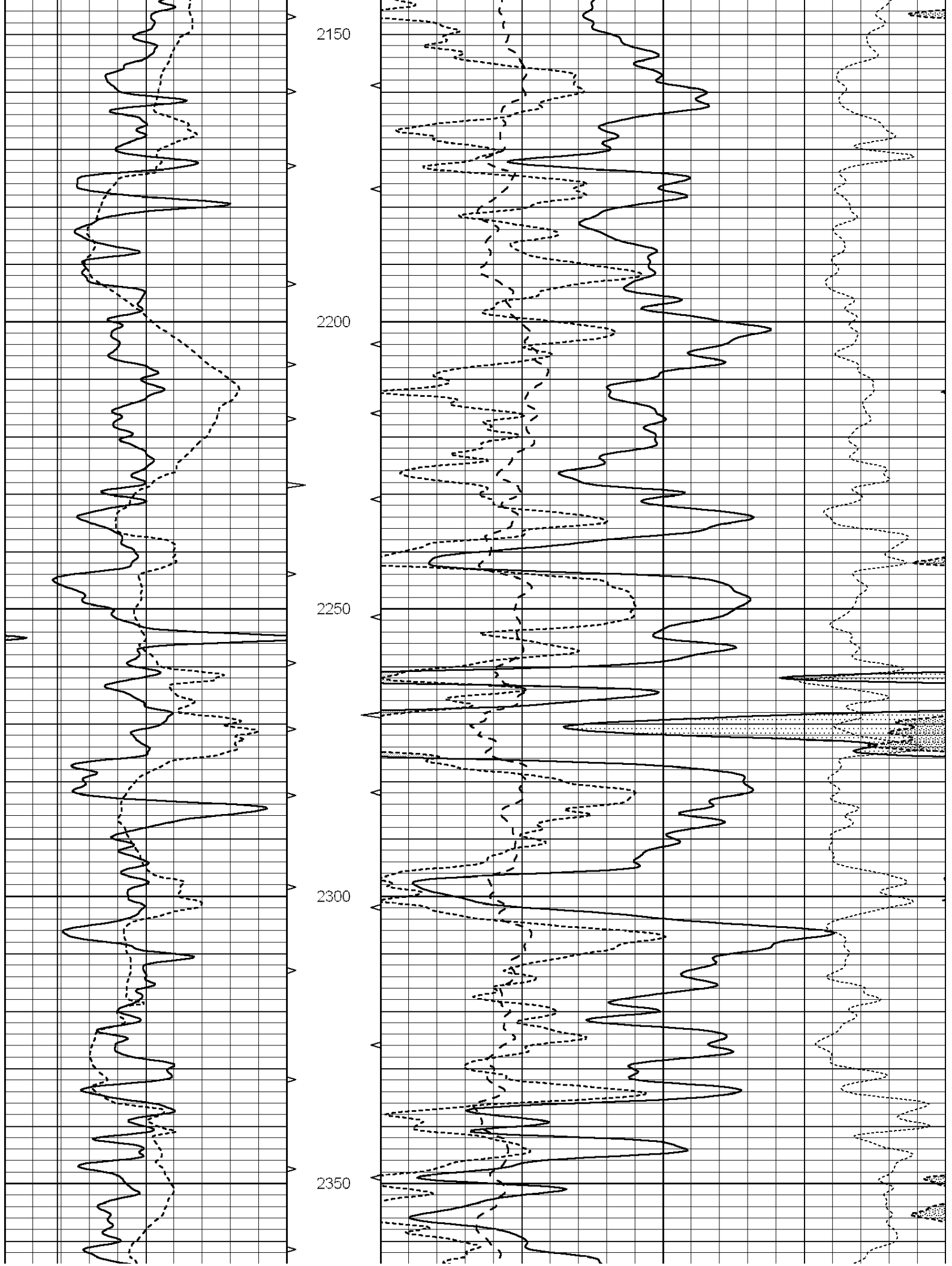
MAIN SECTION

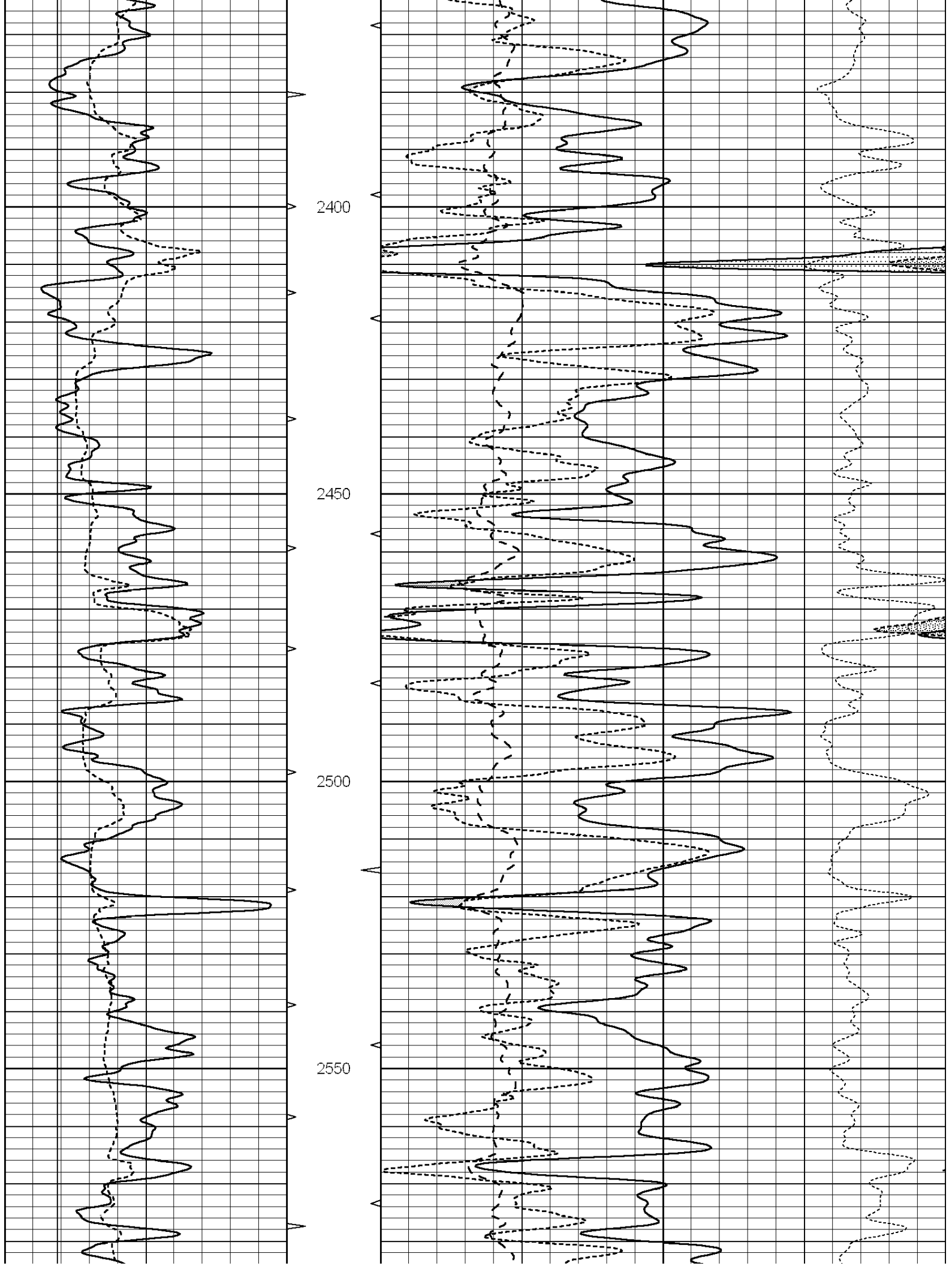
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 Presentation Format: _ldt_neu
 Dataset Creation: Mon May 21 23:56:43 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

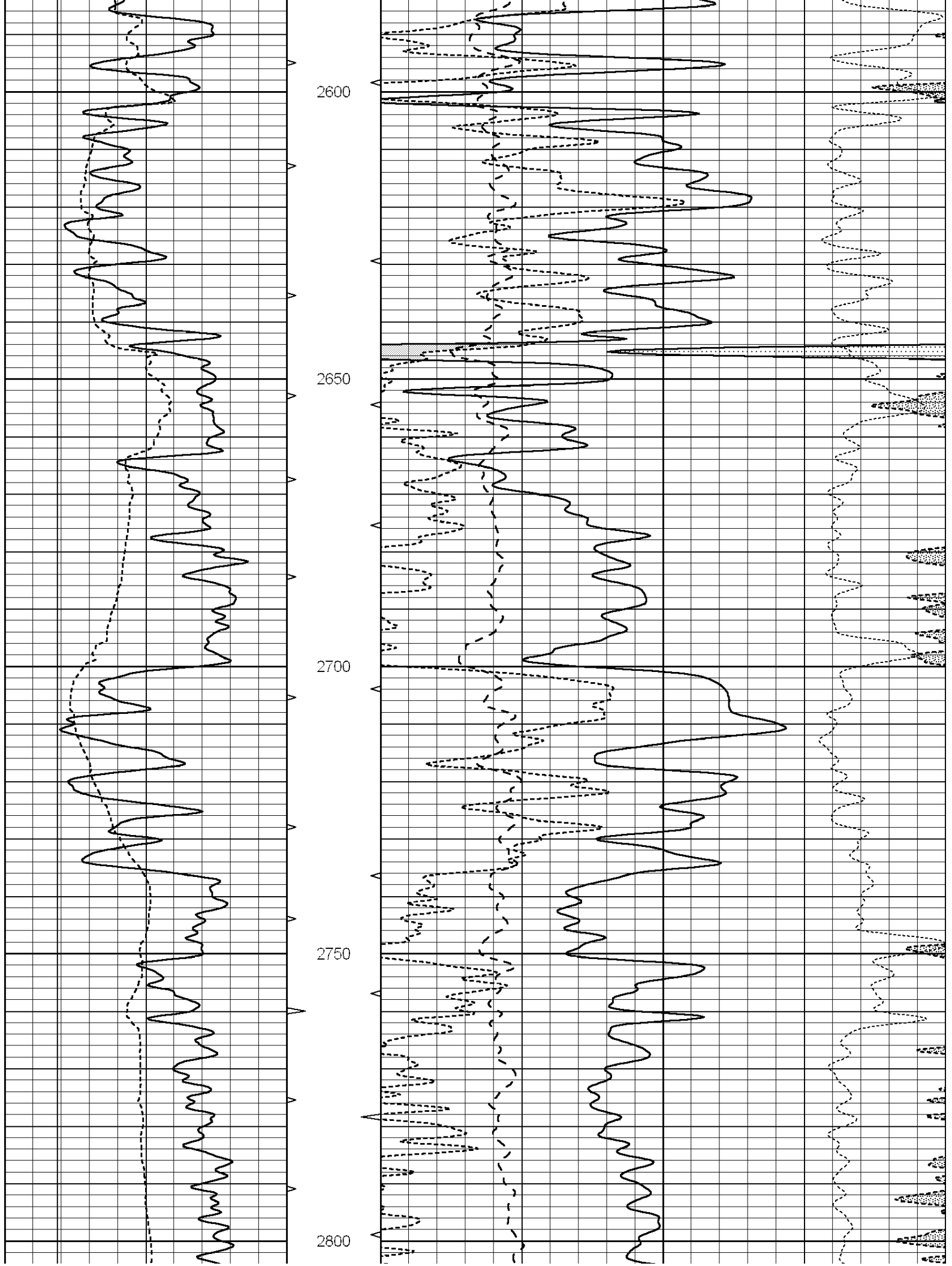
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)				-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)				-10
			TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10						

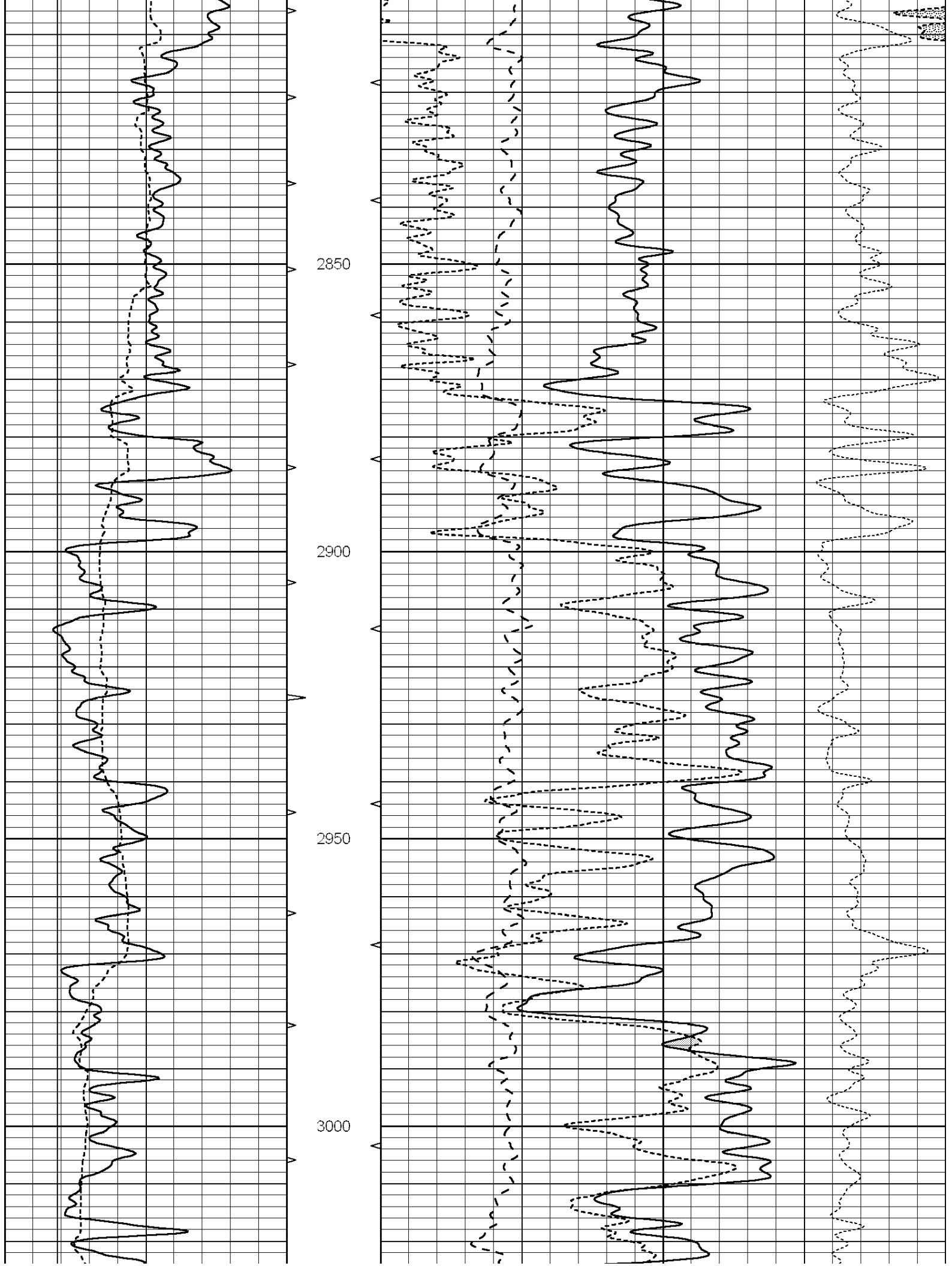


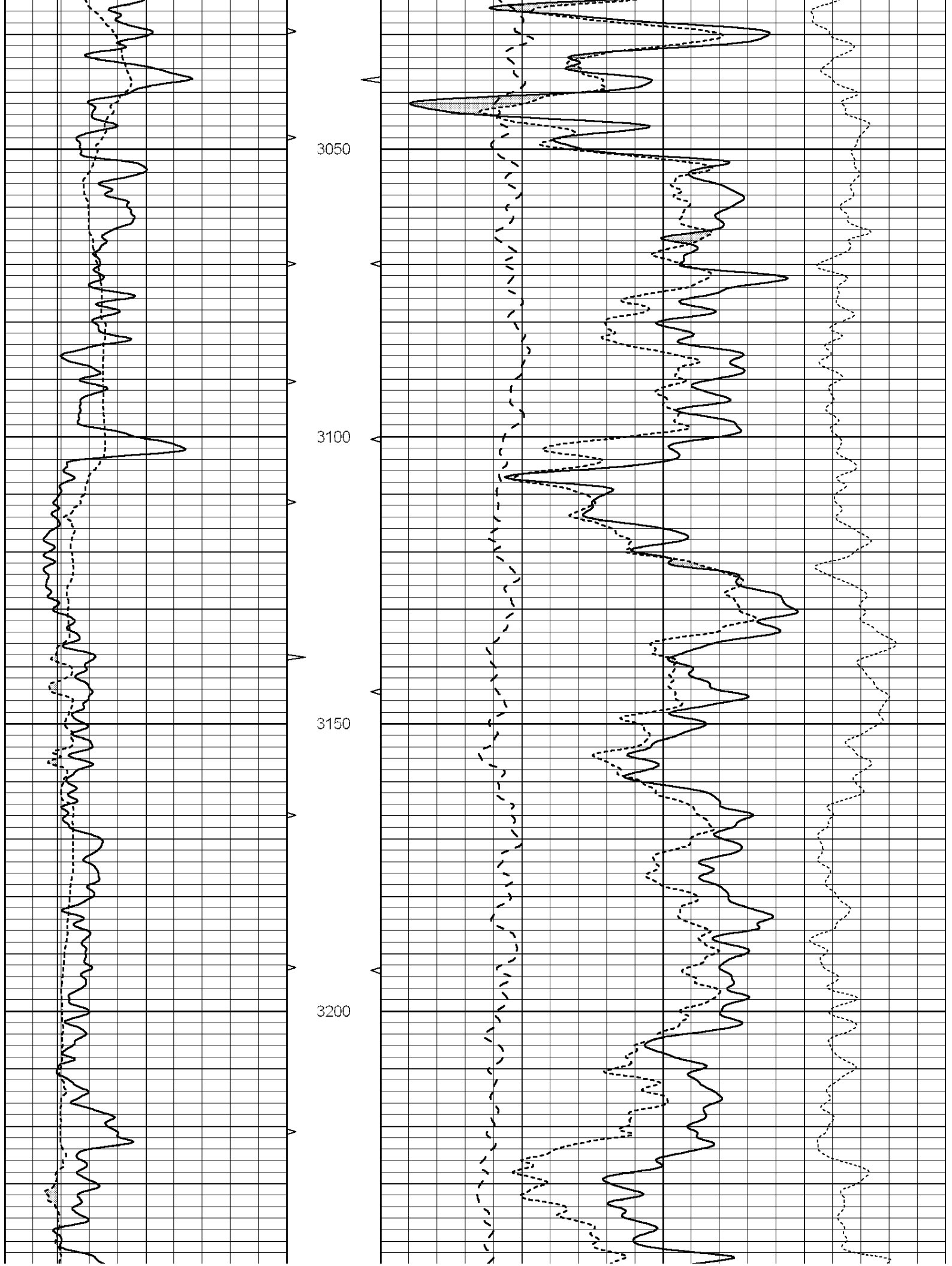


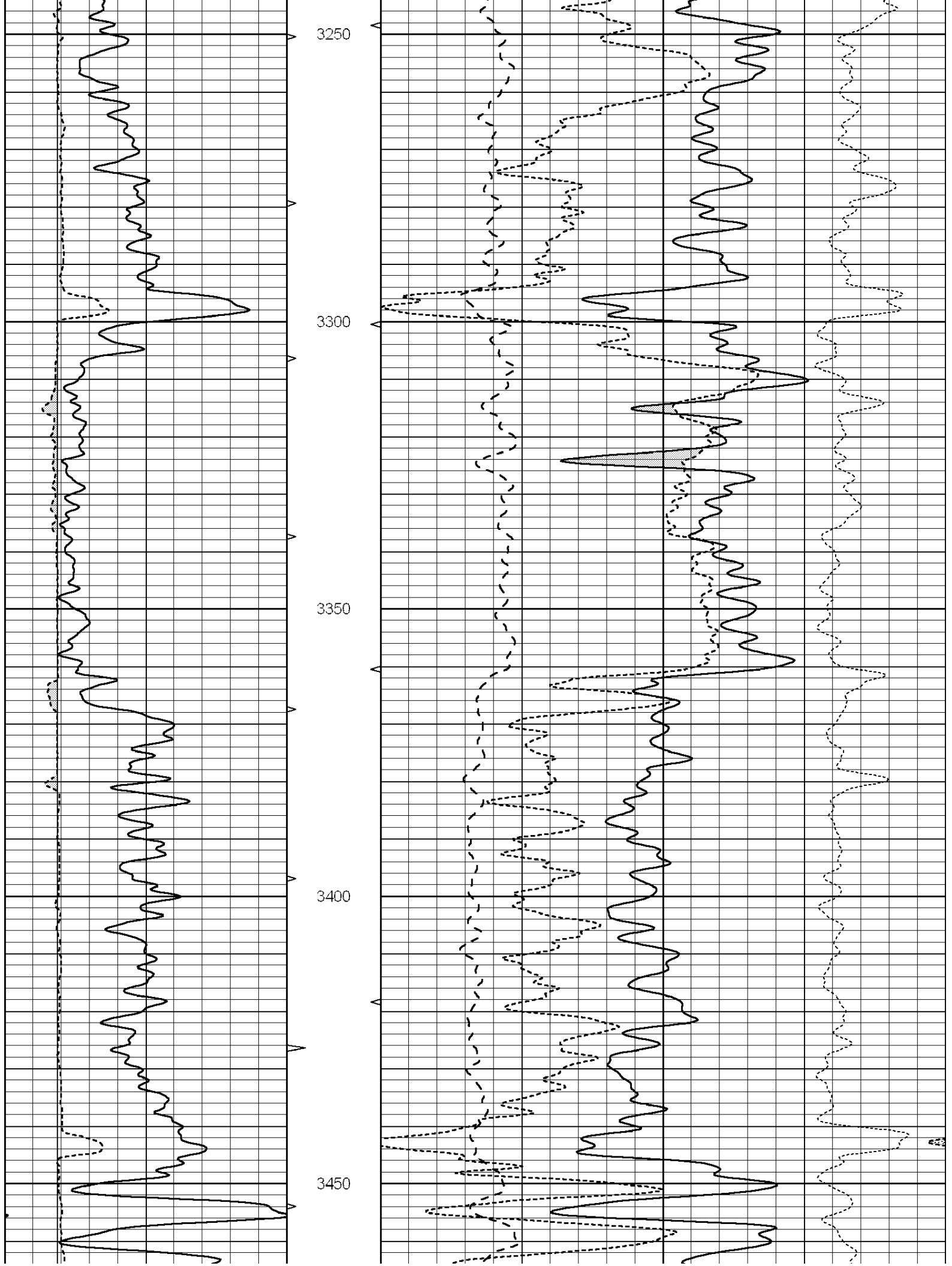


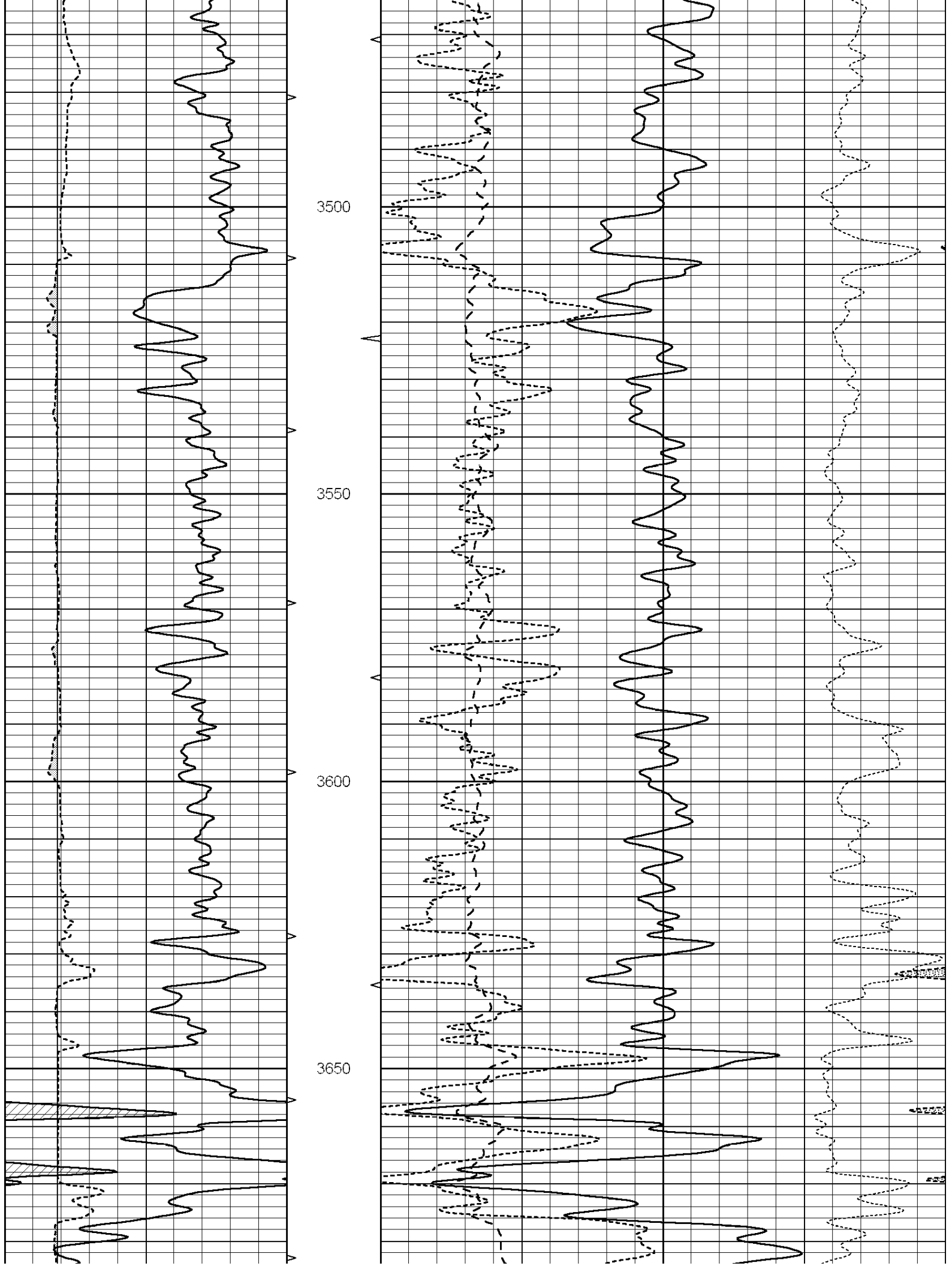


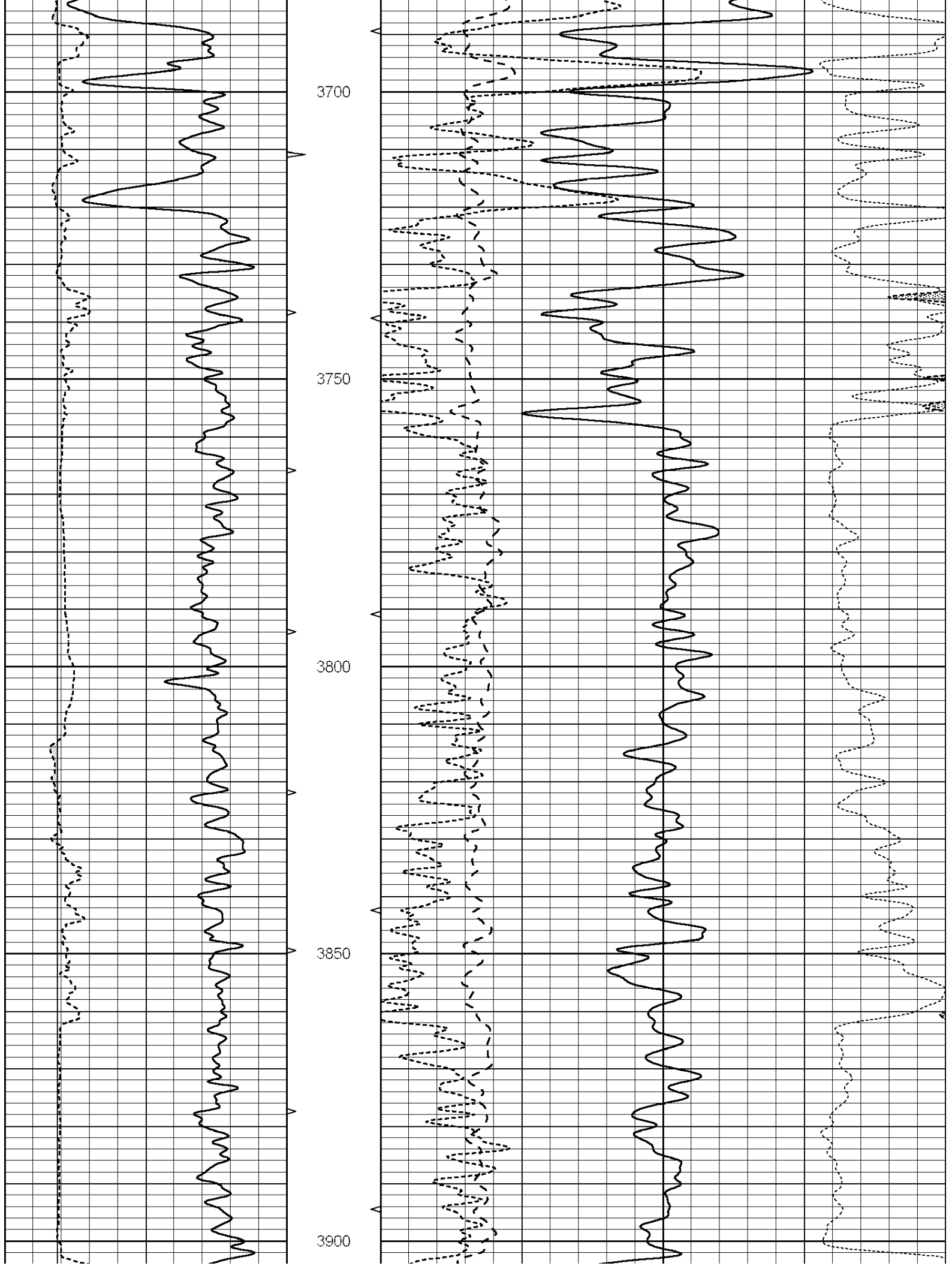


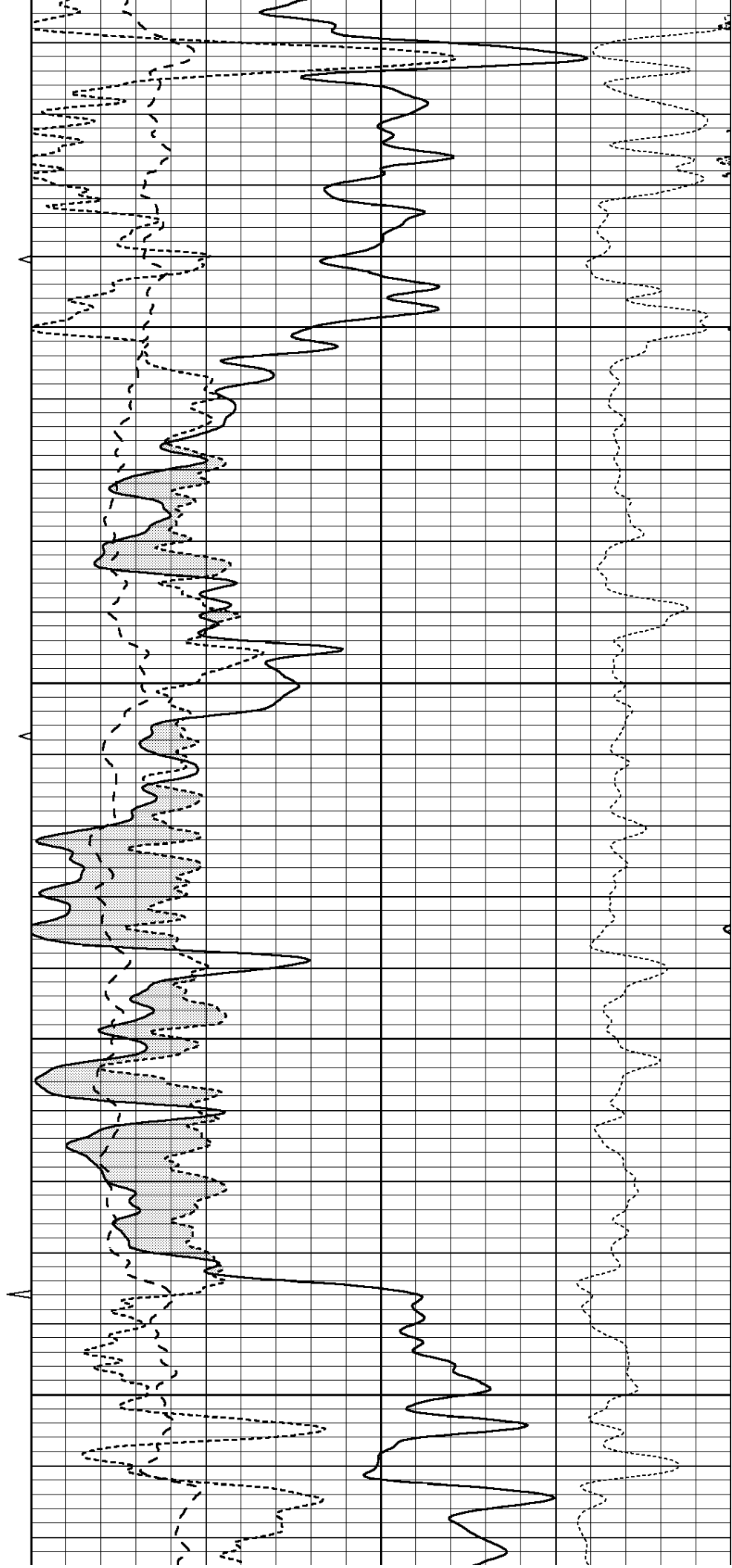
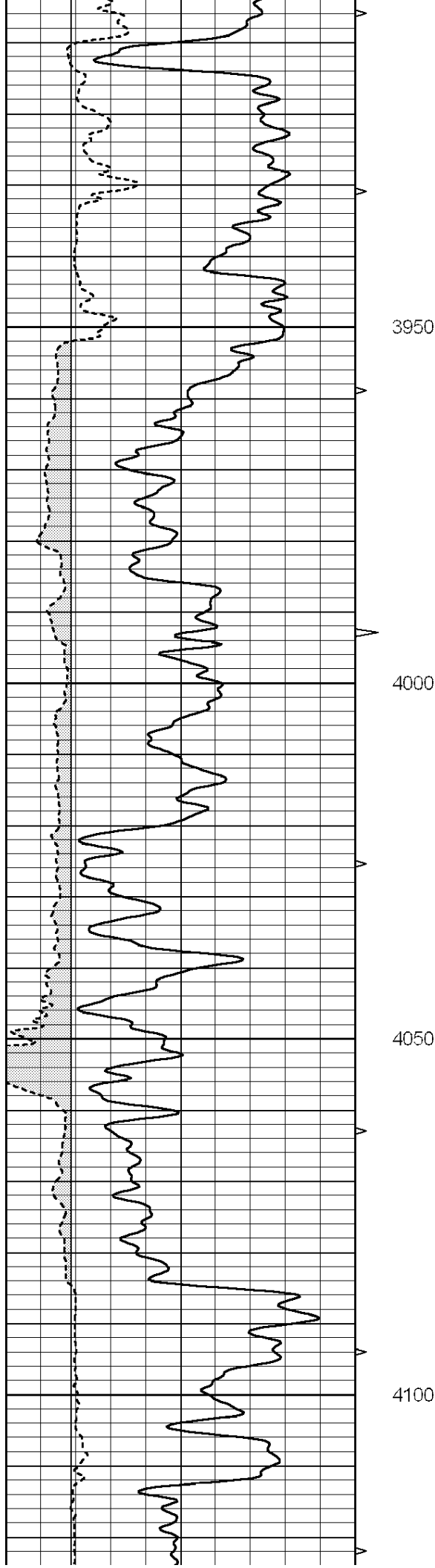


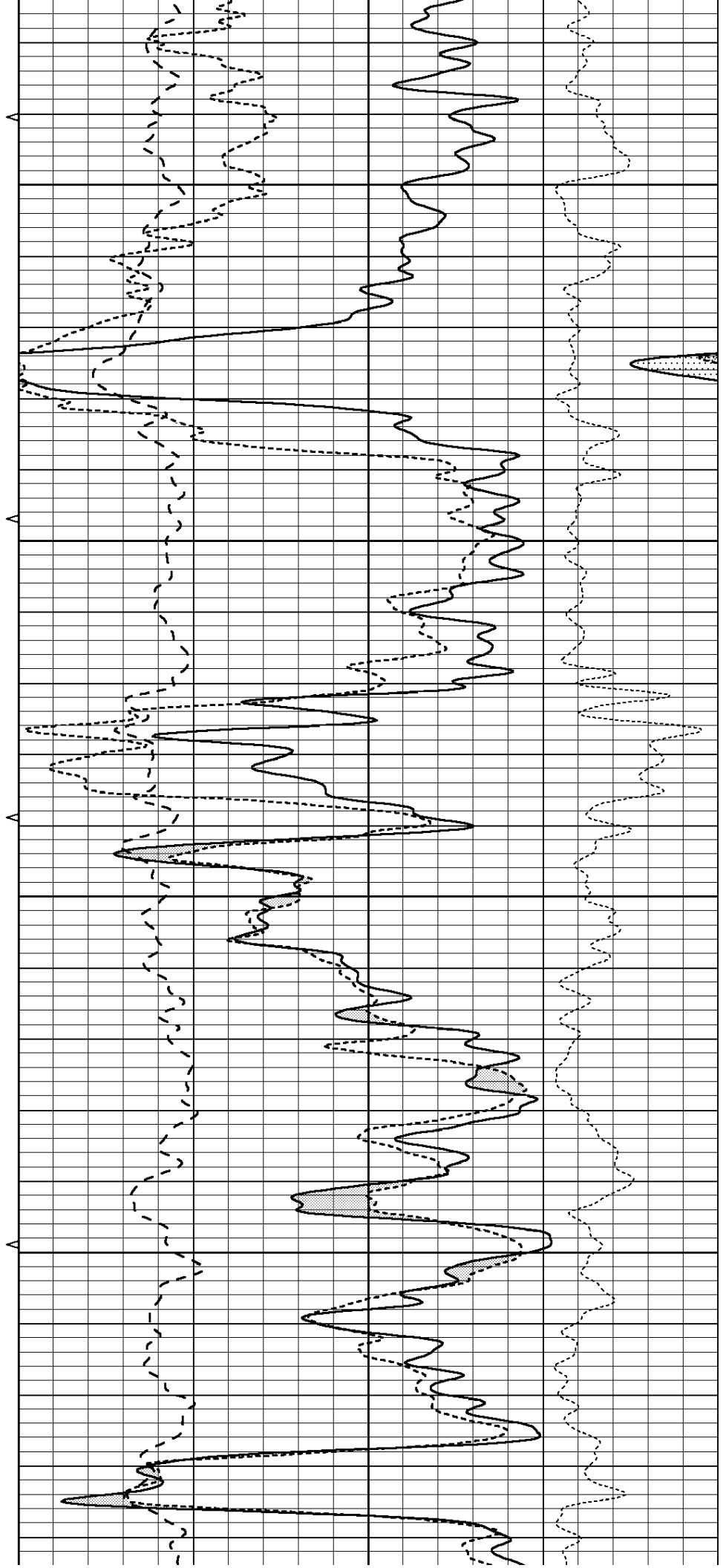
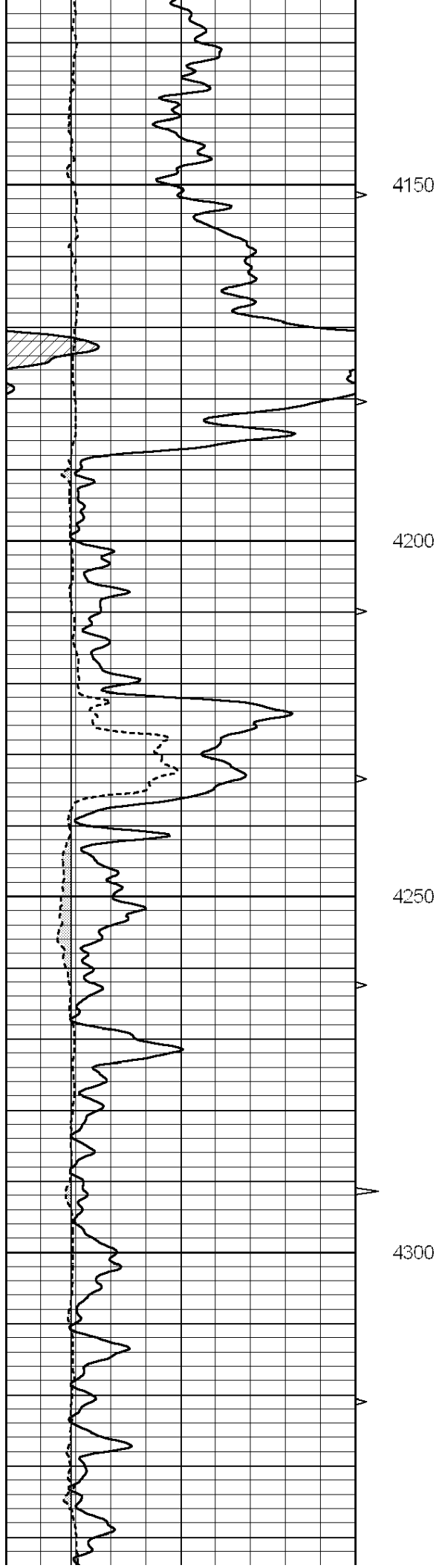


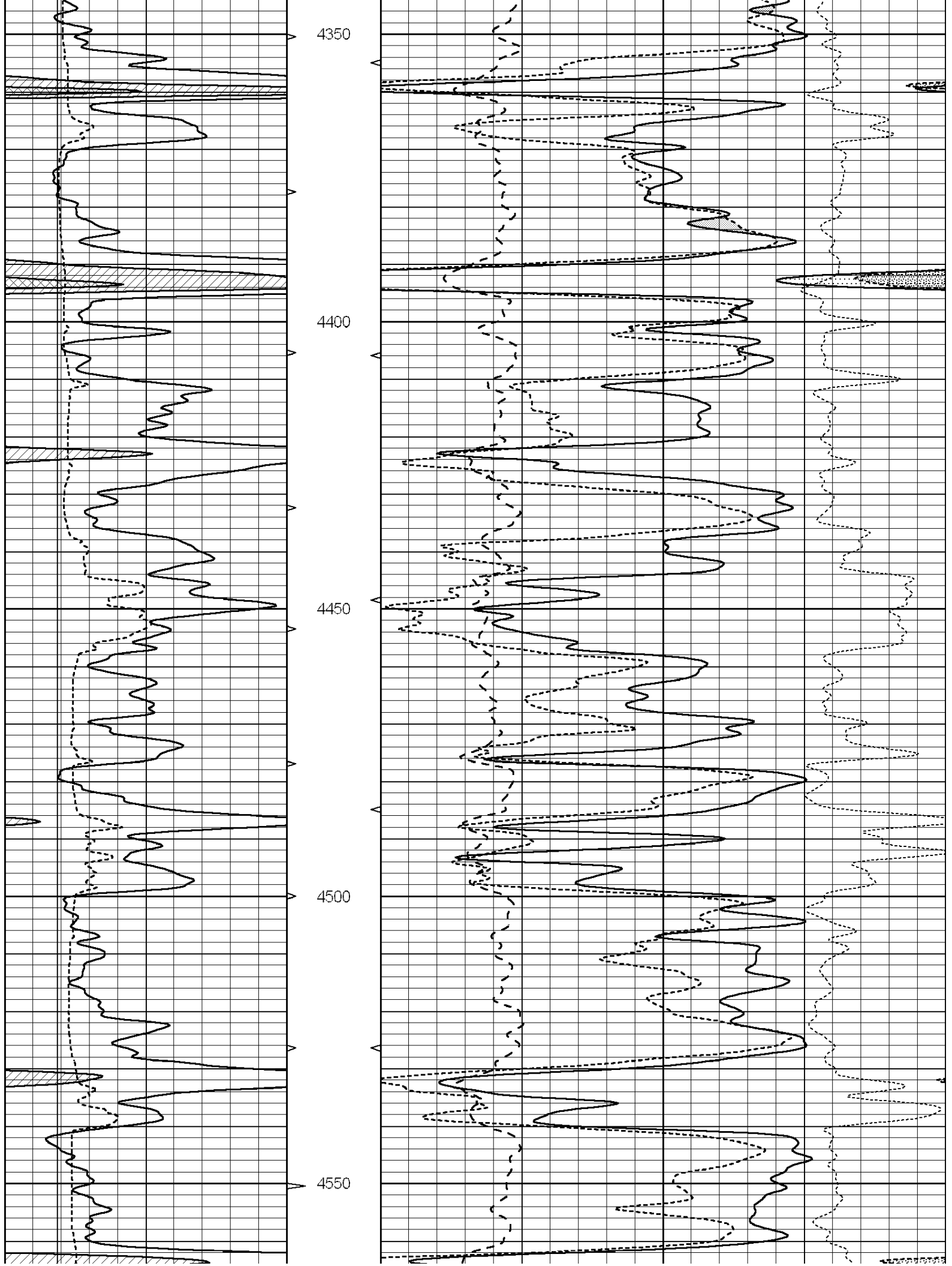


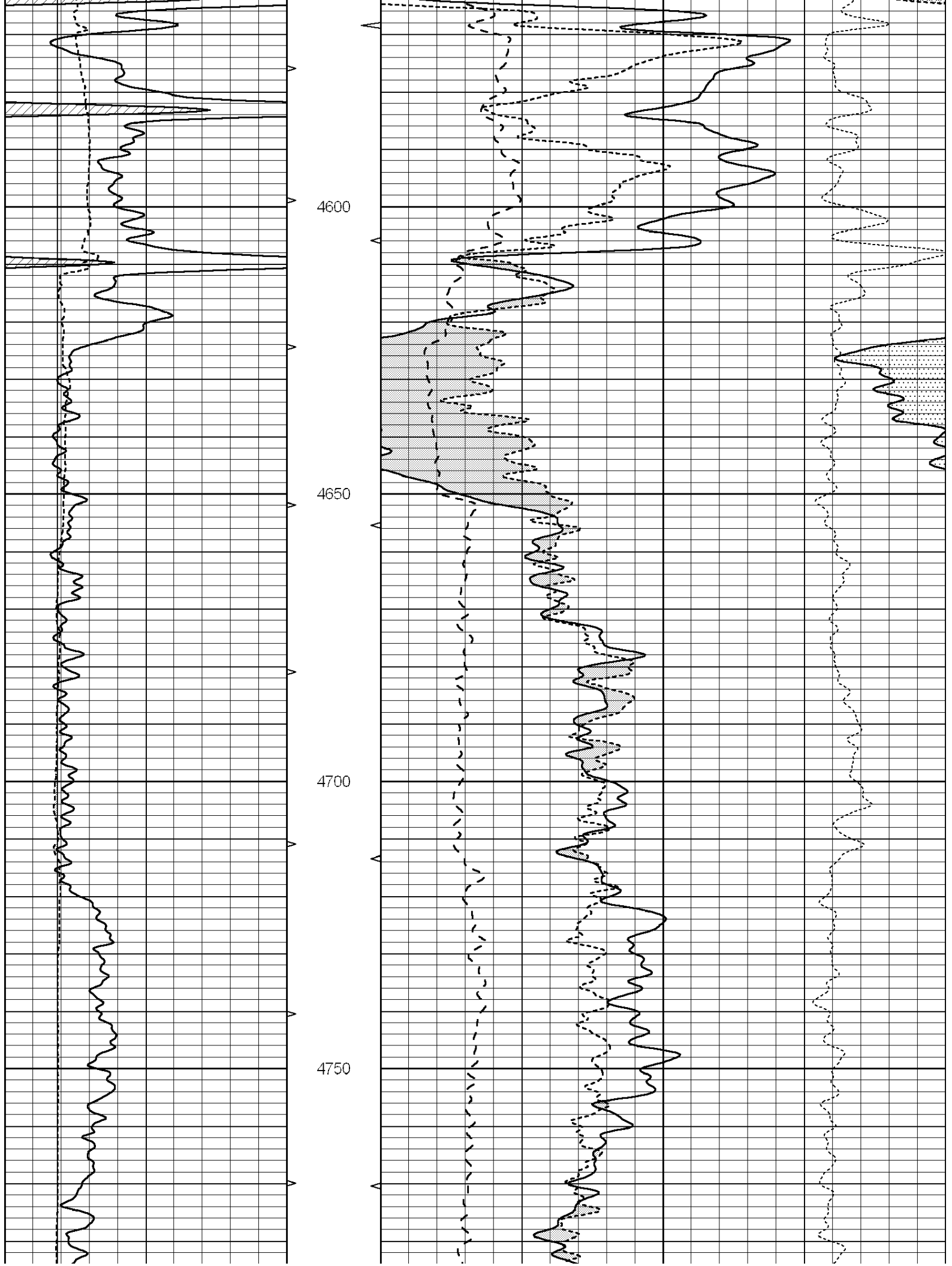


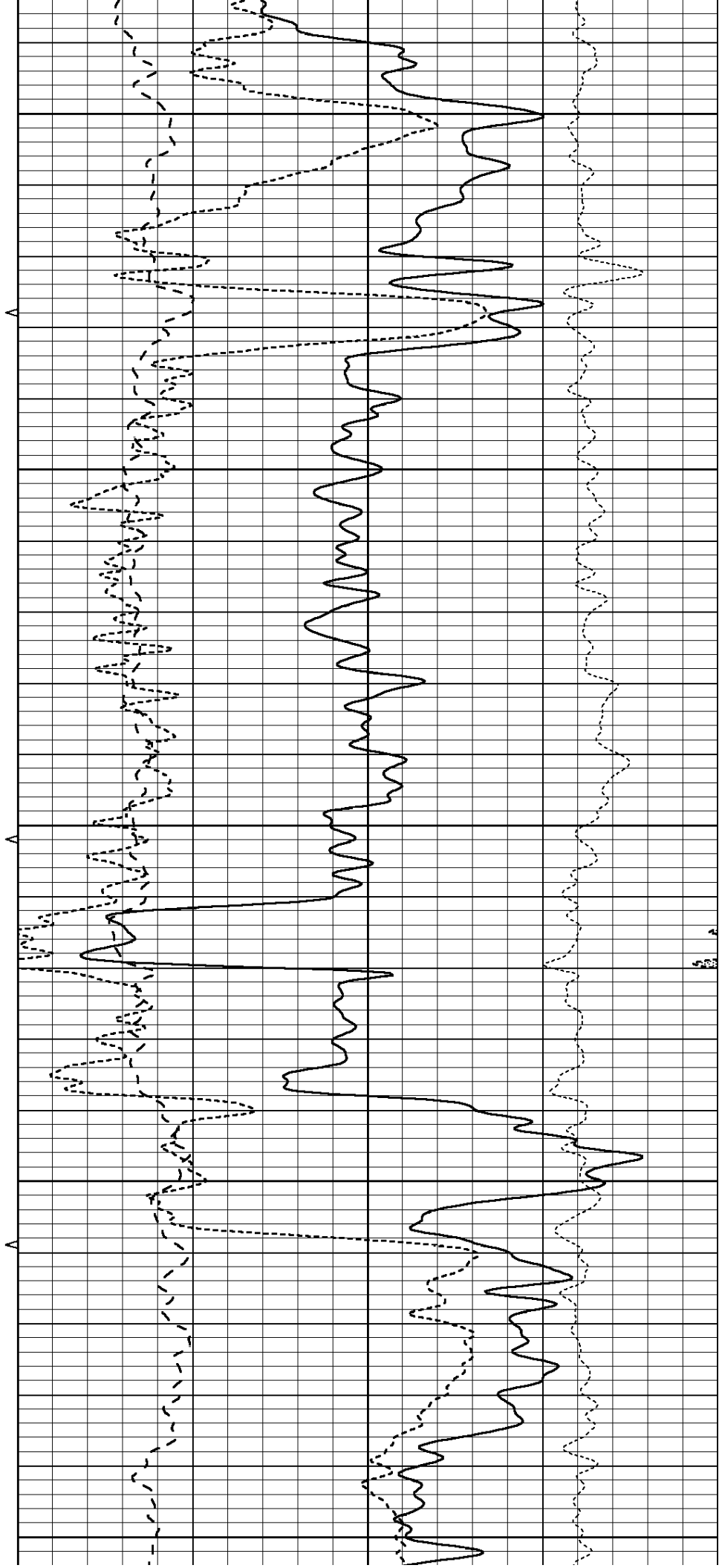
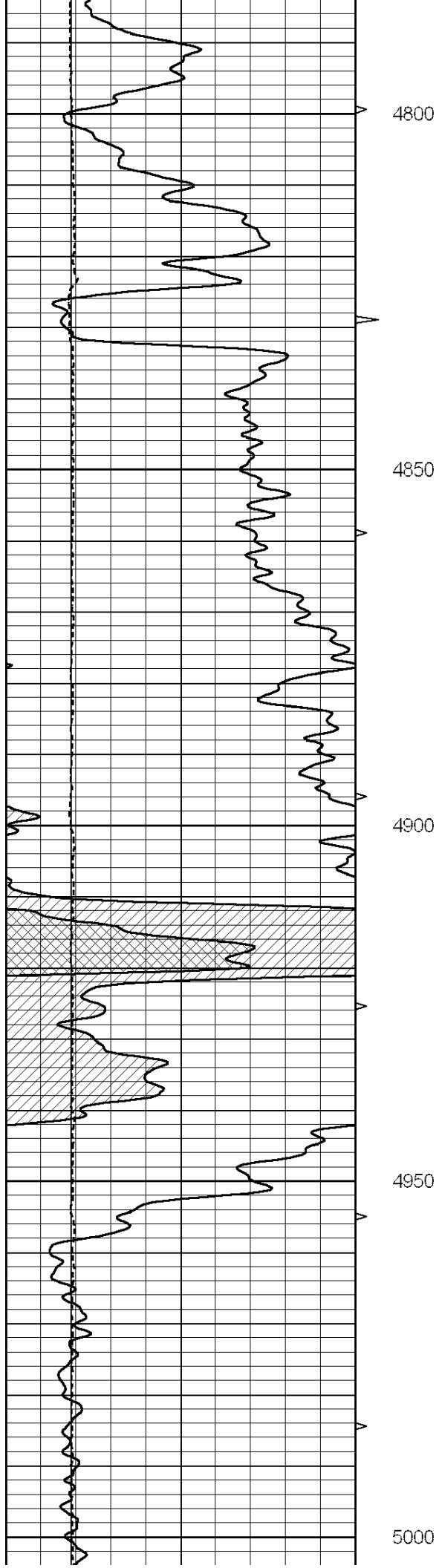


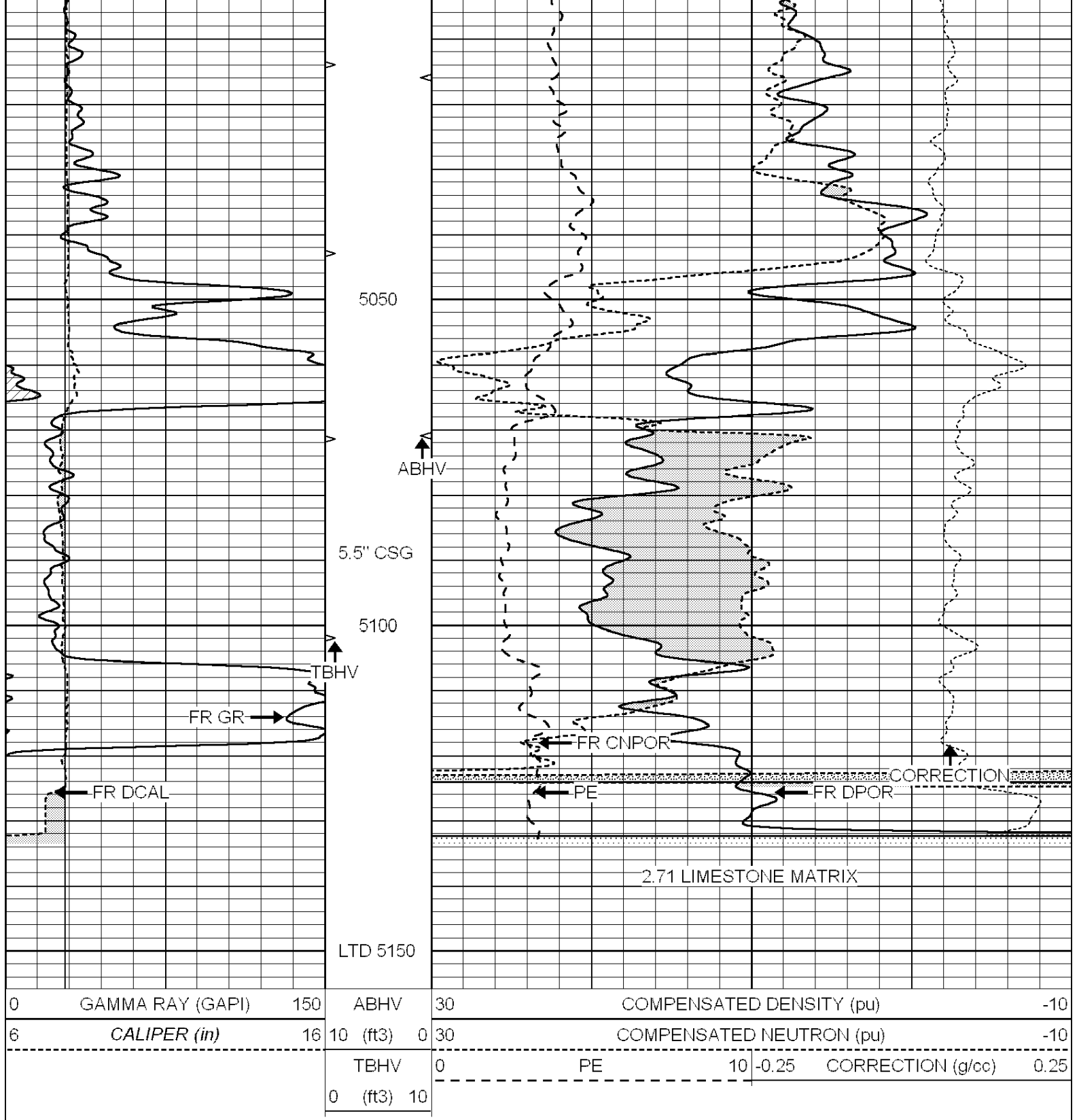












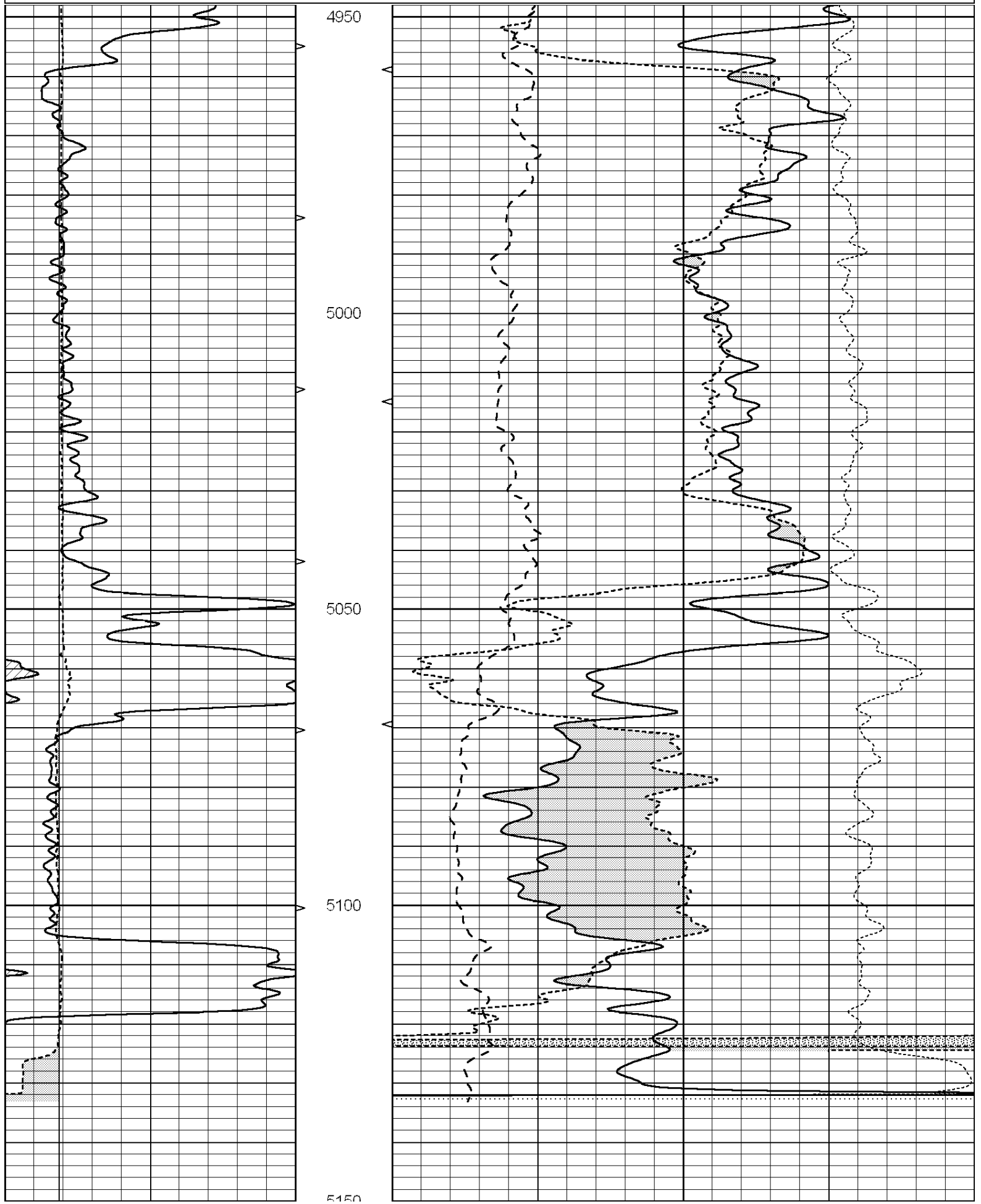
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REPEAT SECTION

Database File: 009202pe.db
 Dataset Pathname: pass2.1
 Presentation Format: _ldt_neu
 Dataset Creation: Mon May 21 22:58:27 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240



CALIPER (in)		16	TBHV		0	COMPENSATED NEUTRON (pu)		-10	
CALIPER (in)		16	TBHV		0	COMPENSATED NEUTRON (pu)		-10	
			TBHV		0	PE		10	
			0		(ft3)	10	CORRECTION (g/cc)		0.25



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 (ft3) 10	-0.25 CORRECTION (g/cc) 0.25		

Database File: 009202pe.db		Calibration Report	
Dataset Pathname: pass2.1			
Dataset Creation: Mon May 21 22:58:27 2012 by Calc Open-Cased 090629			

Dual Induction Calibration Report	
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Serial-Model:		PROBE8-DILG	
Surface Cal Performed:		Fri Aug 01 06:33:19 2008	
Downhole Cal Performed:		Mon Jul 28 11:08:27 2008	
After Survey Verification Performed:		Mon Jul 28 11:08:27 2008	

Surface Calibration			Readings		References		Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
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: 001 Model: PRB	
Performed Thu Sep 17 09:57:21 2009	

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	2056.0	9796.8	3673.1	10821.3	cps
Window 2	1920.0	8541.1	3303.5	9307.2	cps
Window 3	1563.1	4735.7	2212.8	5017.5	cps
Window 4	466.0	466.1	465.6	471.5	cps

Long Space	0.0	6621.1	1383.5	7387.2	cps
Short Space	2.5	2361.7	1523.2	2534.0	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.978	Density/Spine Ratio	: 0.541
Spine Angle	: 74.4	Spine Slope	: 3.570	Spine Intercept	: -18.9
Caliper					
Low Ref	Readings 3.1	Reference 8.4			
High Ref	4.3	14.3			
	Gain: 4.6		Offset: -7.8		
Compensated Neutron Calibration Report					
		Serial Number:	6l		
		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	
Gamma Ray Calibration Report					
Serial Number:	#8				
Tool Model:	OPEN				
Performed:	Mon Jun 13 16:56:43 2011				
Calibrator Value:	150.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	175.0	cps			
Sensitivity:	0.8371	GAPI/cps			