



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company	LOTUS OPERATING CO. LLC.		
Well	LADNER #1		
Field	STRANATHAN		
County	BARBER	State	KANSAS
Location:	API # : 15-007-23566-0000		Other Services DIL/MEL SONIC
600' FSL & 2260' FWL			
SEC 35 TWP 34S RGE 12W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	1417
Log Measured From	KELLY BUSHING 13' A.G.L.		K.B. 1430
Drilling Measured From	KELLY BUSHING		D.F. 1428
			G.L. 1417
Date	8/15/10		
Run Number	ONE		
Depth Driller	5220		
Depth Logger	5222		
Bottom Logged Interval	5198		
Top Log Interval	3600		
Casing Driller	10 3/4"@260'		
Casing Logger	260		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,500 PPM	
Density / Viscosity	9.5/49		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.600@99F		
Rinf @ Meas. Temp	.450@99F		
Rmc @ Meas. Temp	.720@99F		
Source of Rinf / Rmc	MEASUREMENT		
Rim @ BHT	.468@127F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	2:20 P.M.		
Maximum Recorded Temperature	127F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JOE BAKER		

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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
MEDICINE LODGE, KS., 16S. ON HWY 281 TO MM #8, (RATTLESNAKE TRAIL RD.) 1W., 1S., 1W., N. INTO

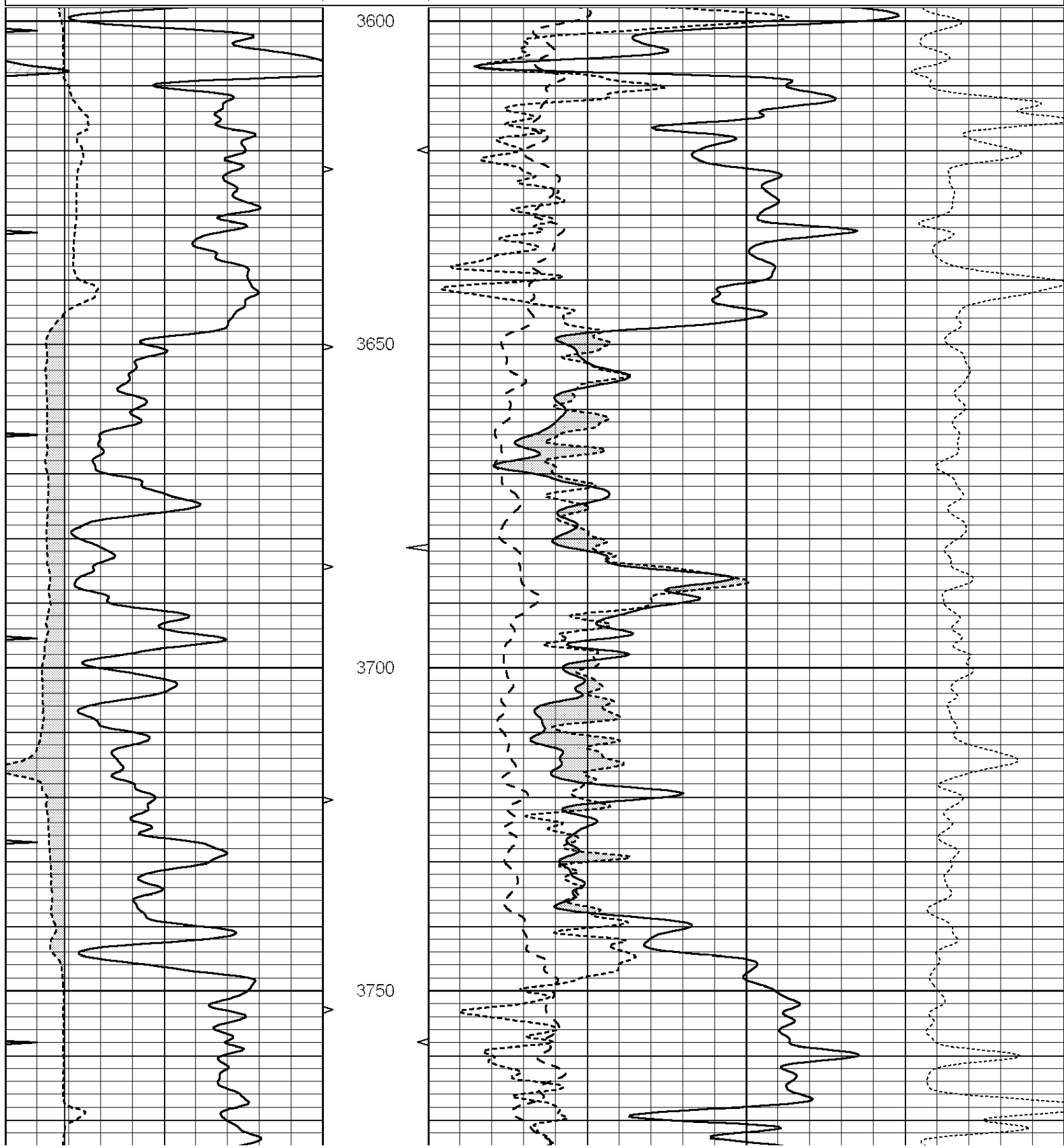


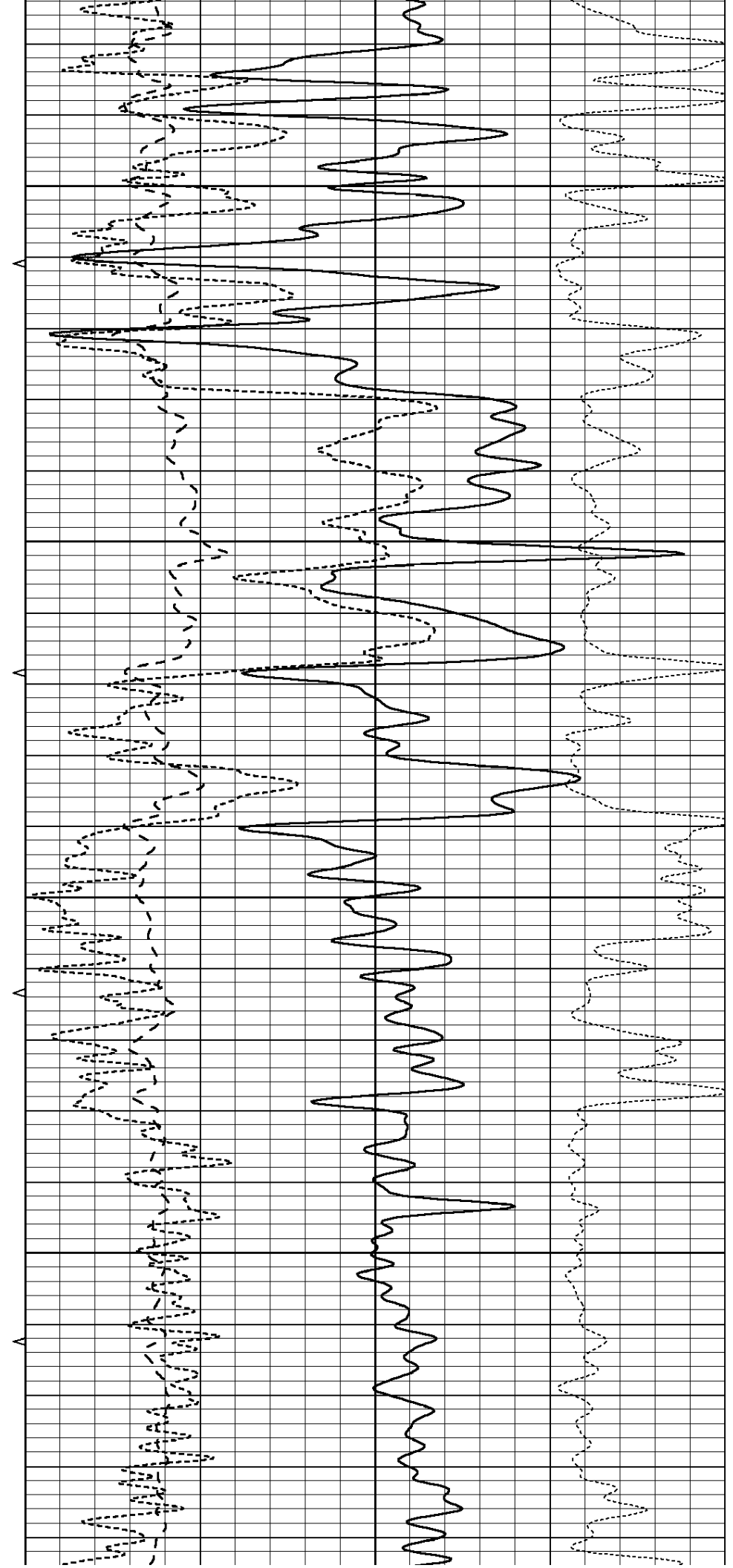
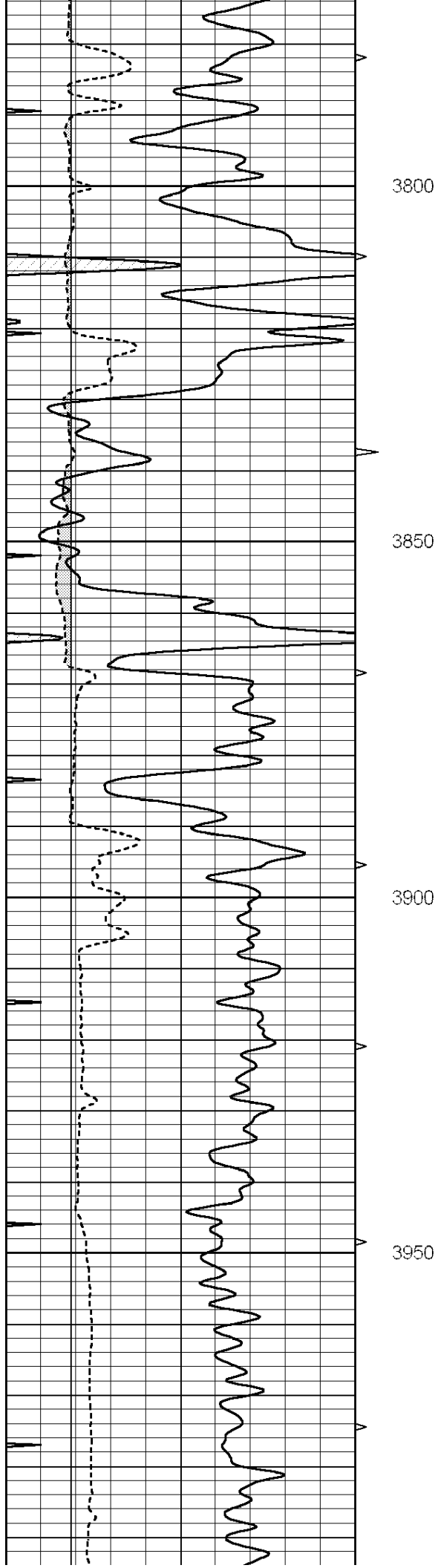
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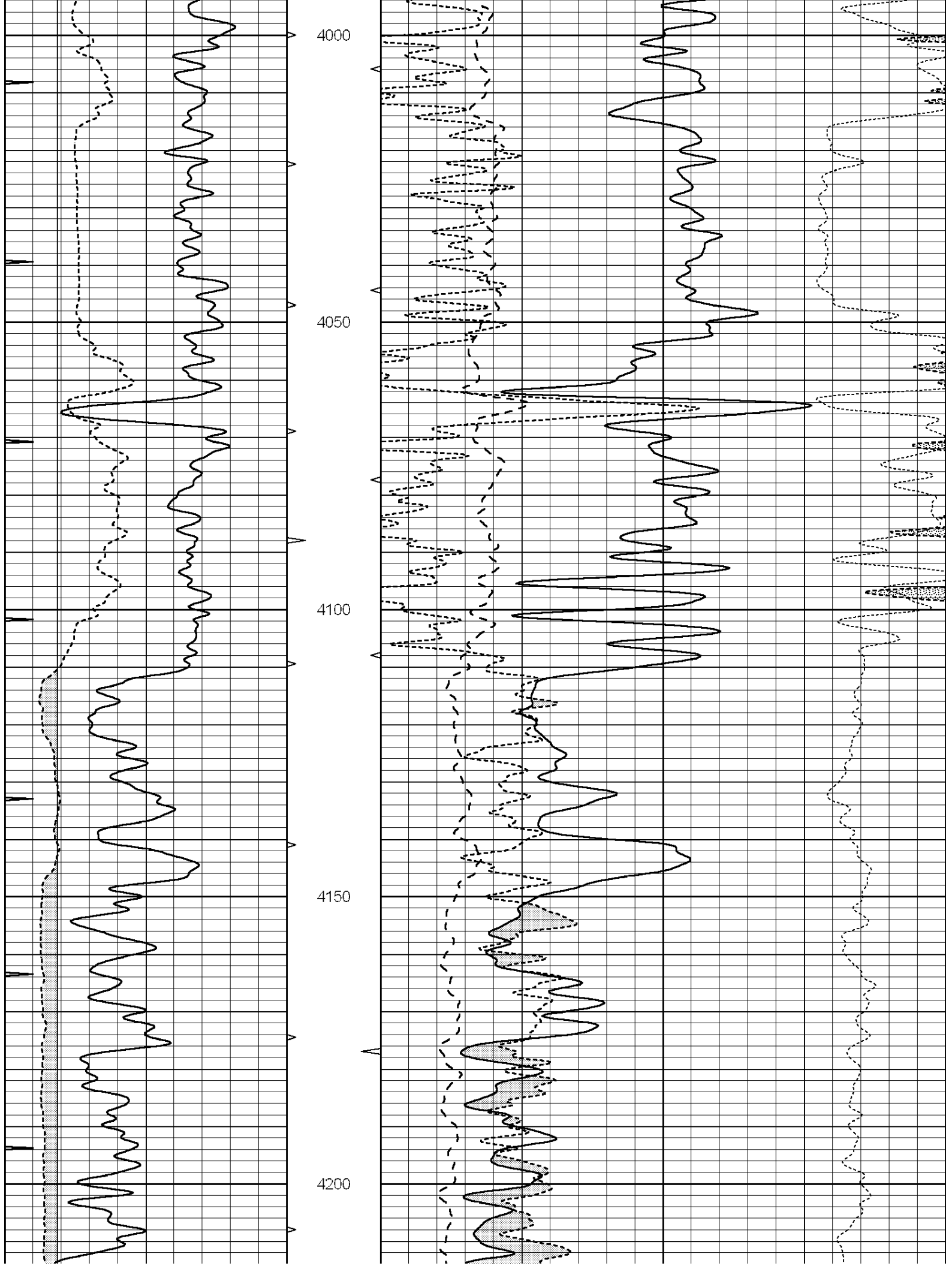
MAIN SECTION

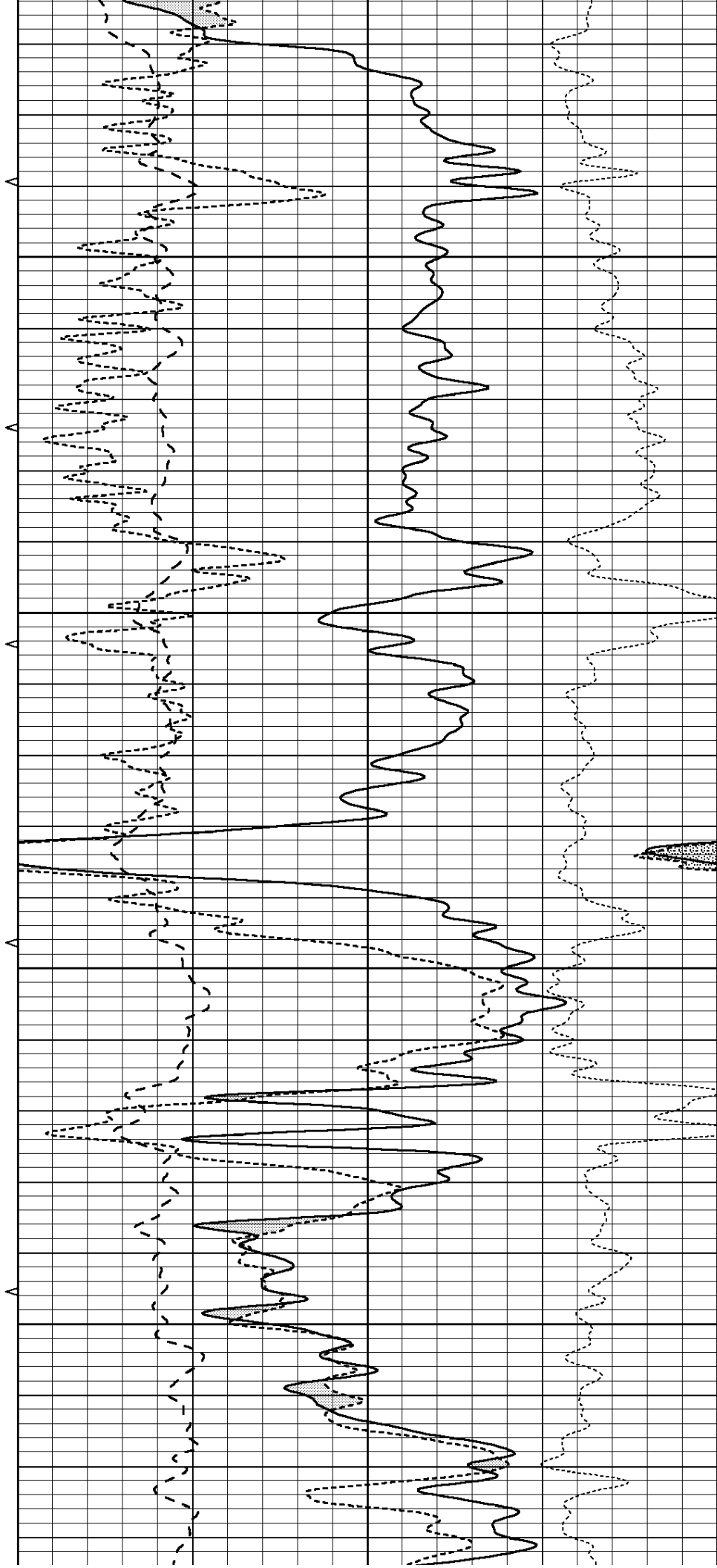
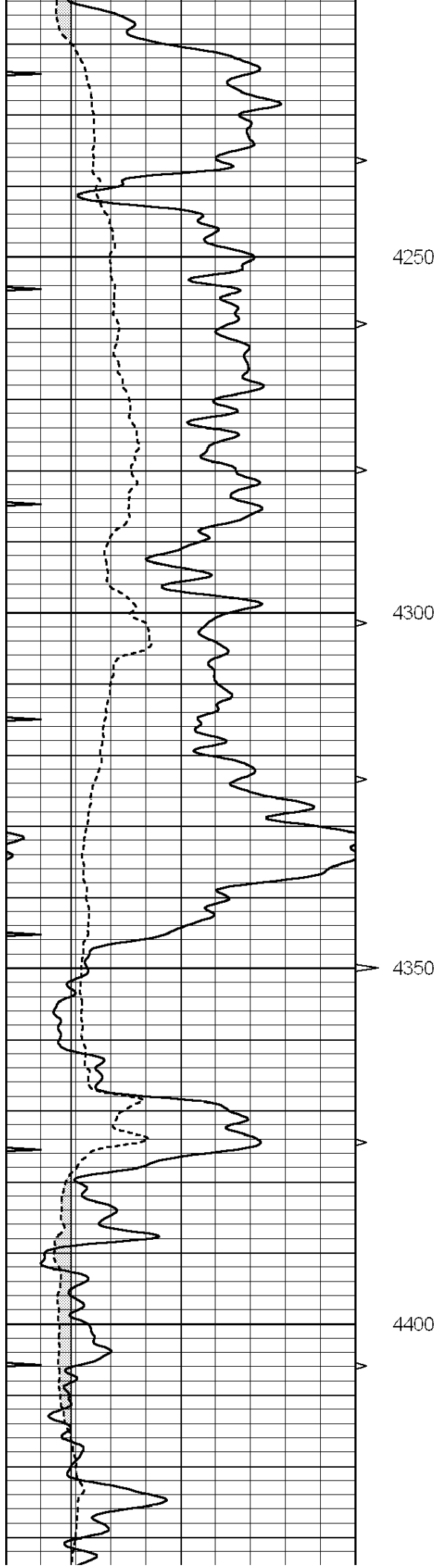
Database File: 005583pe.db
 Dataset Pathname: pass3.10
 Presentation Format: ldt_neu
 Dataset Creation: Sun Aug 15 16:20:52 2010 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

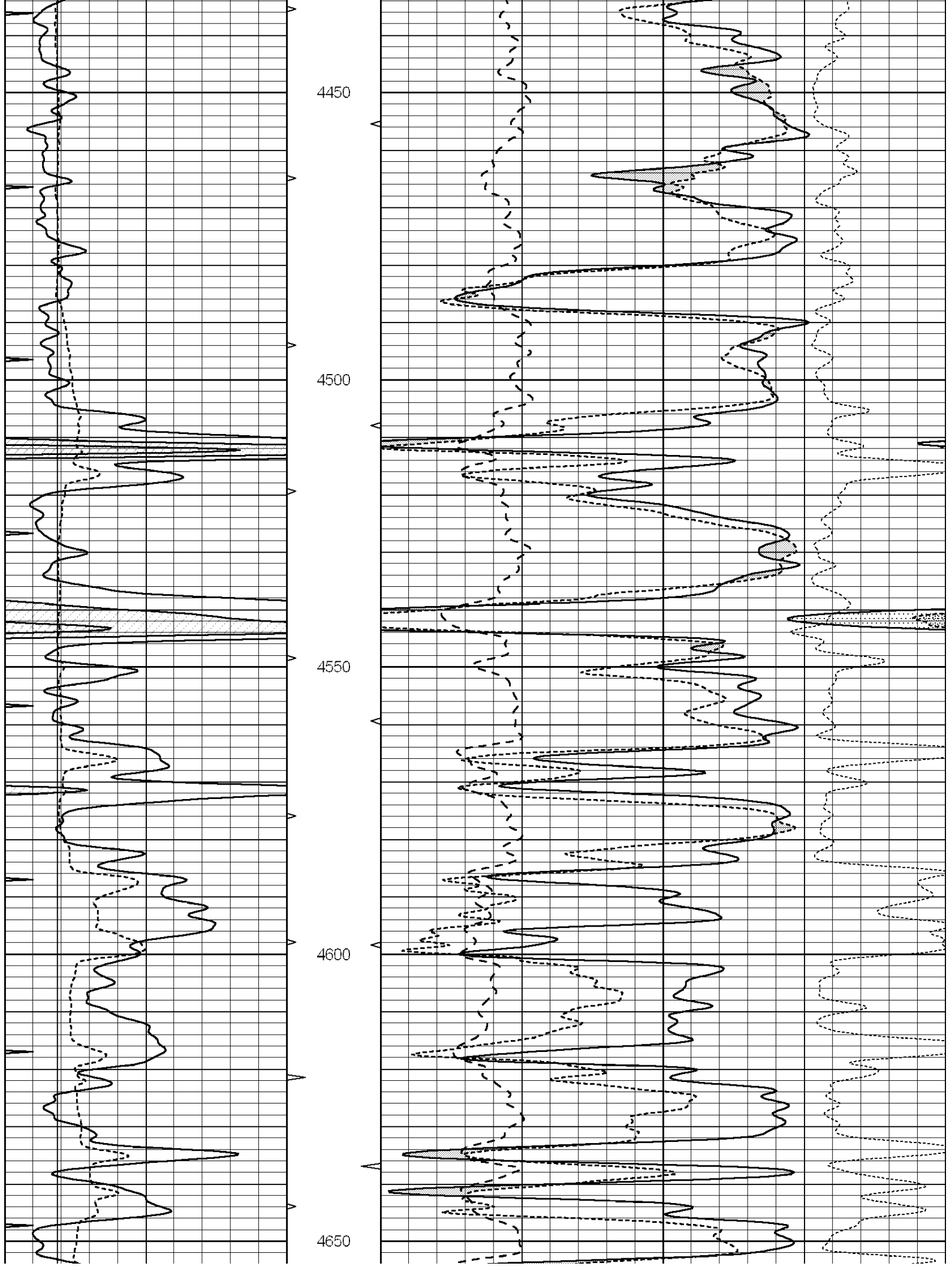
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	10	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		

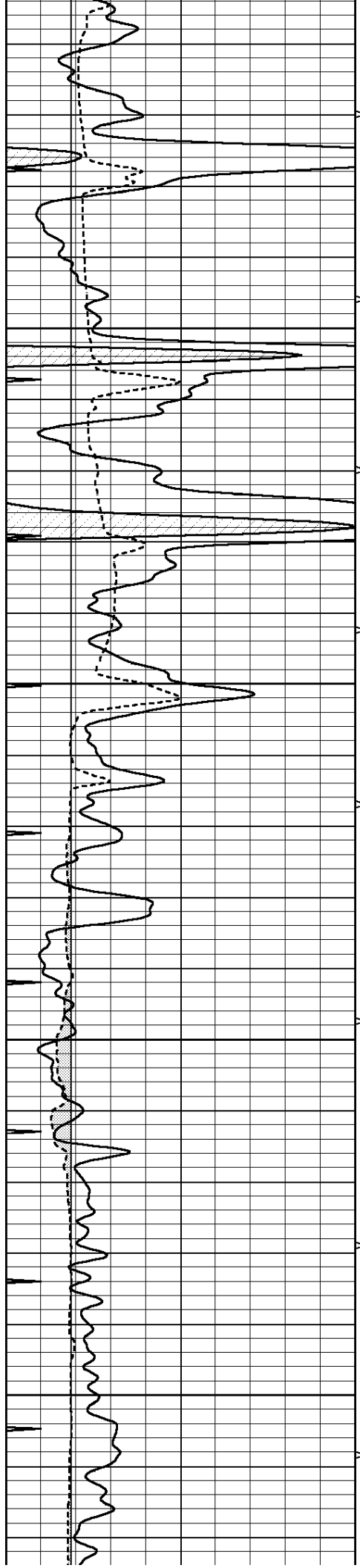










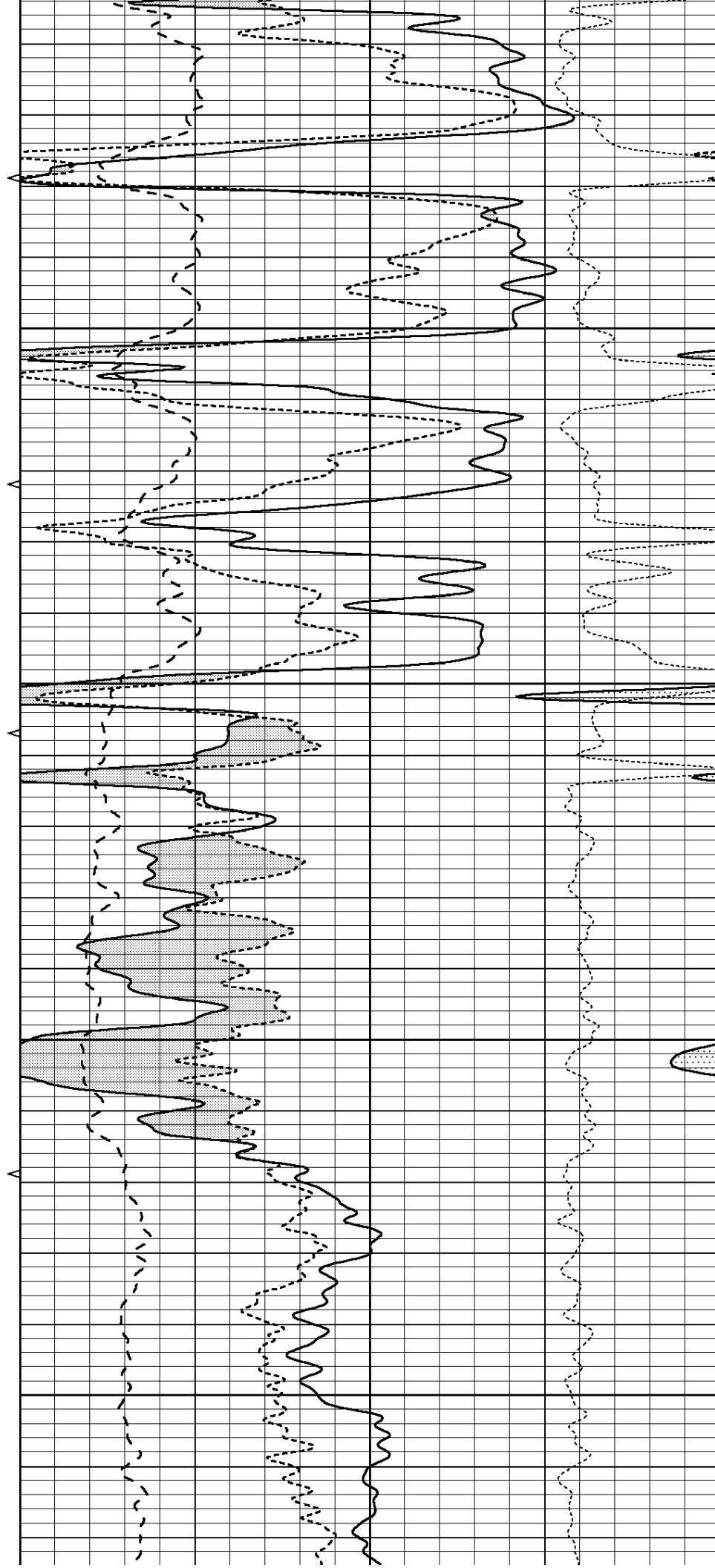


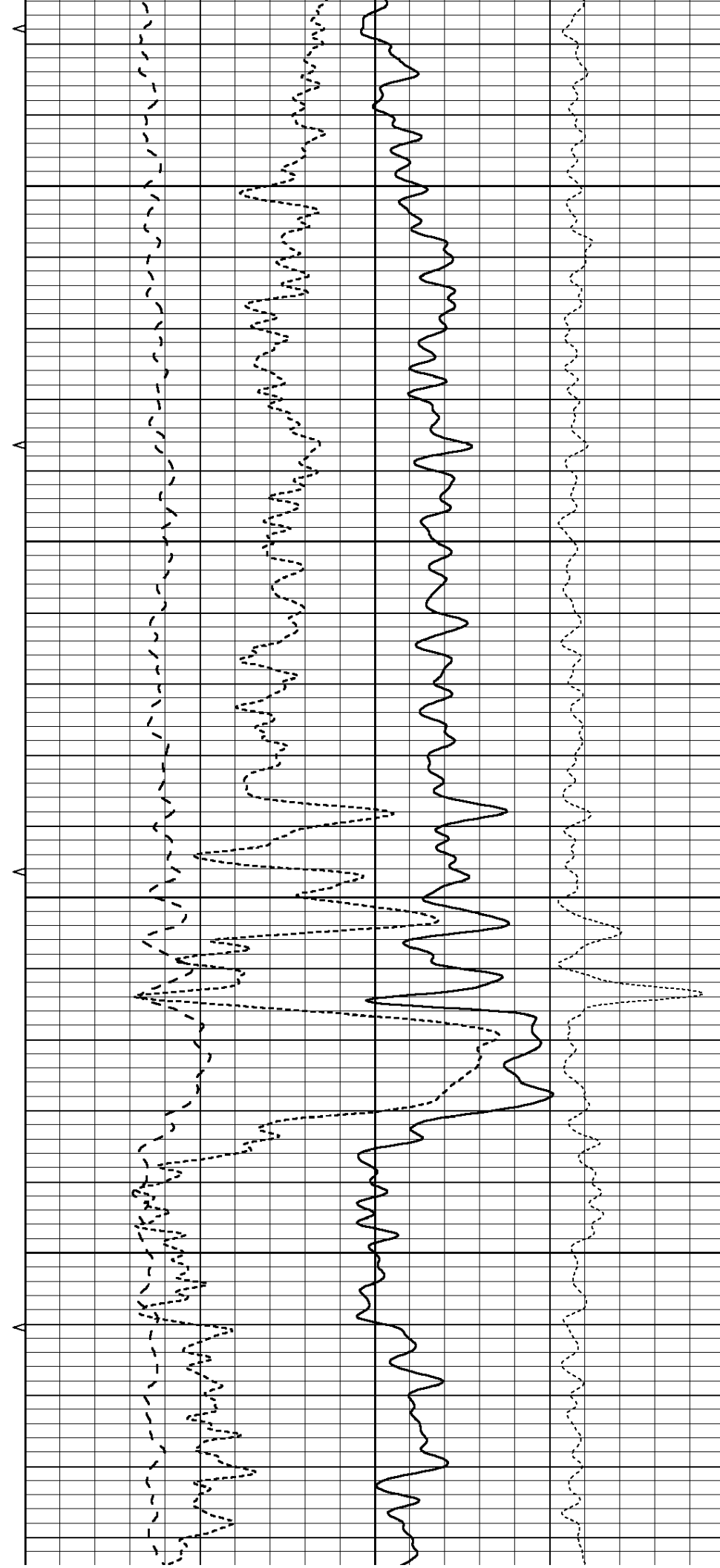
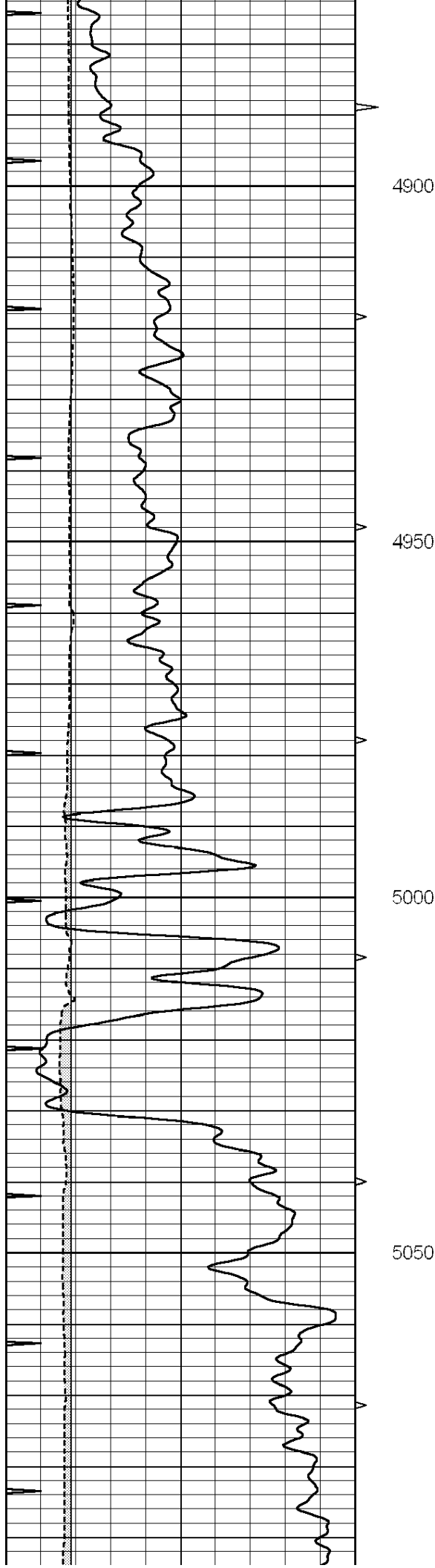
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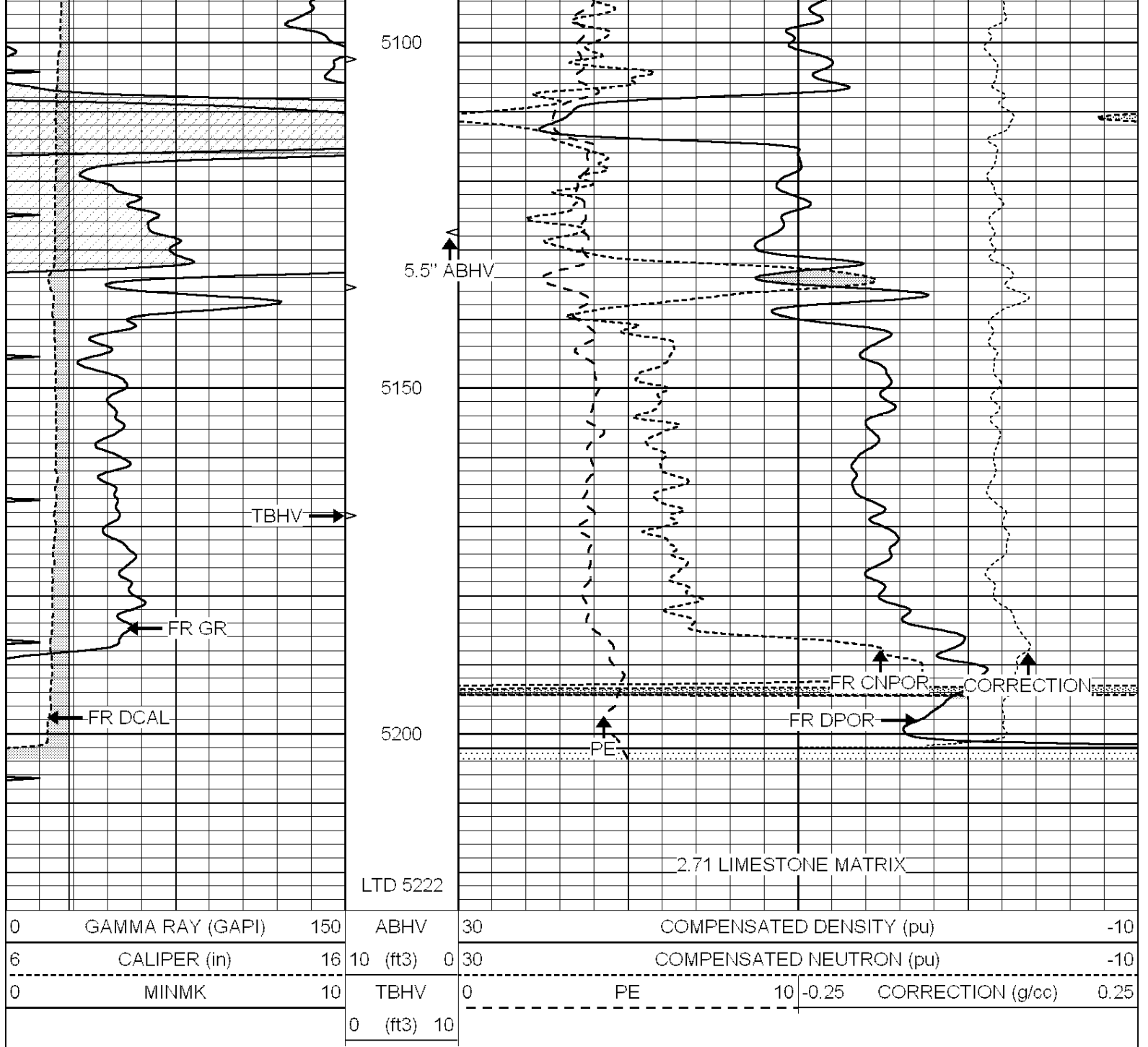
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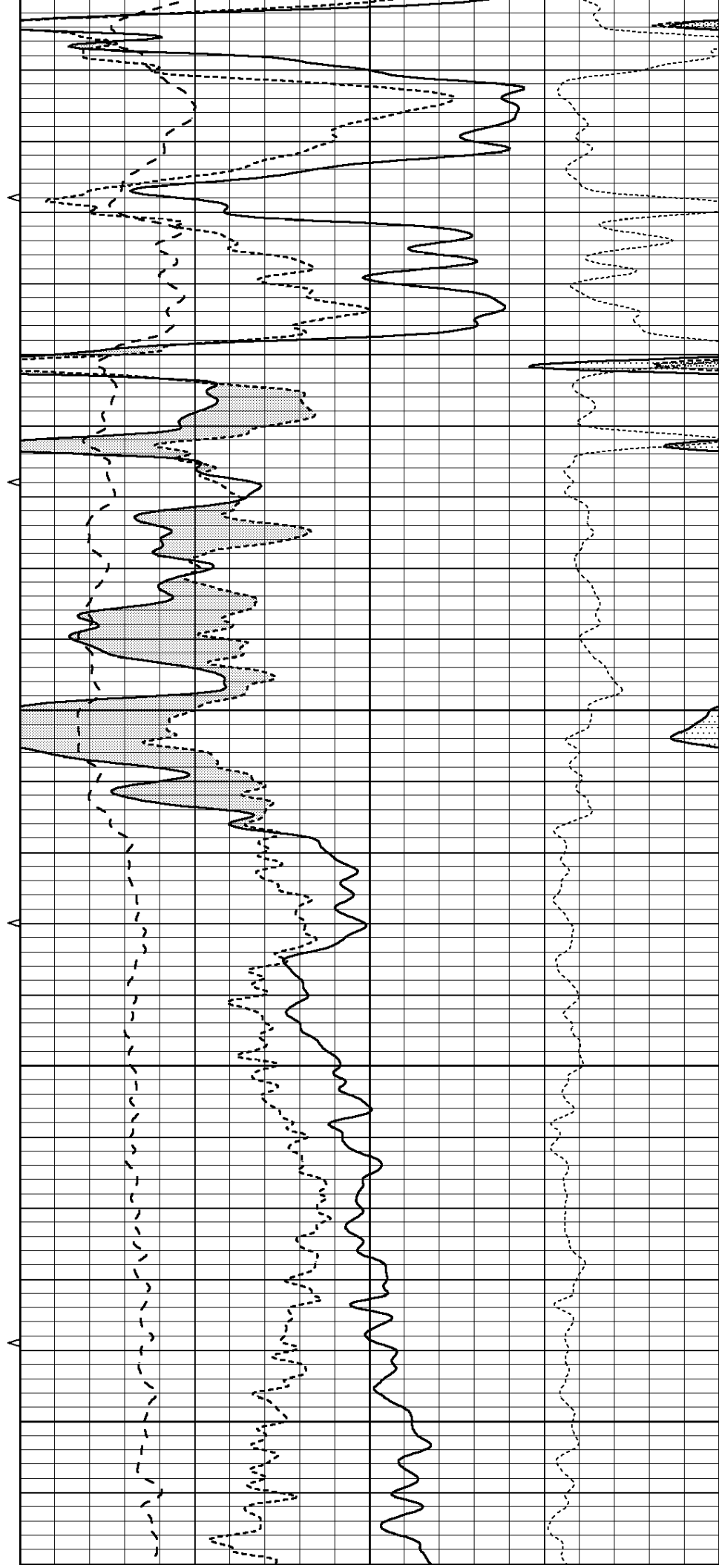
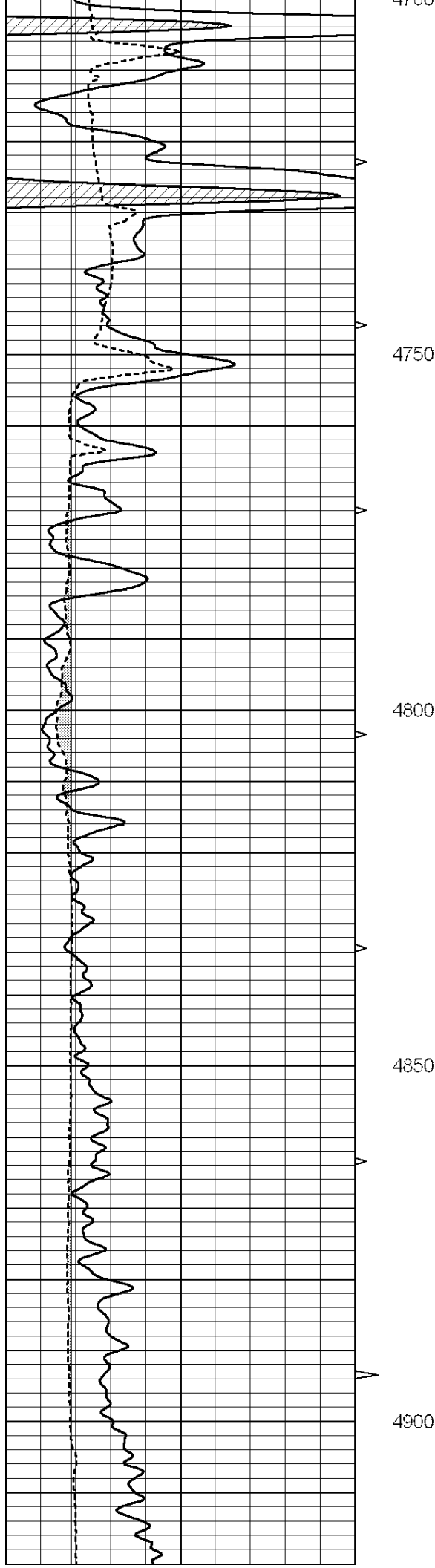


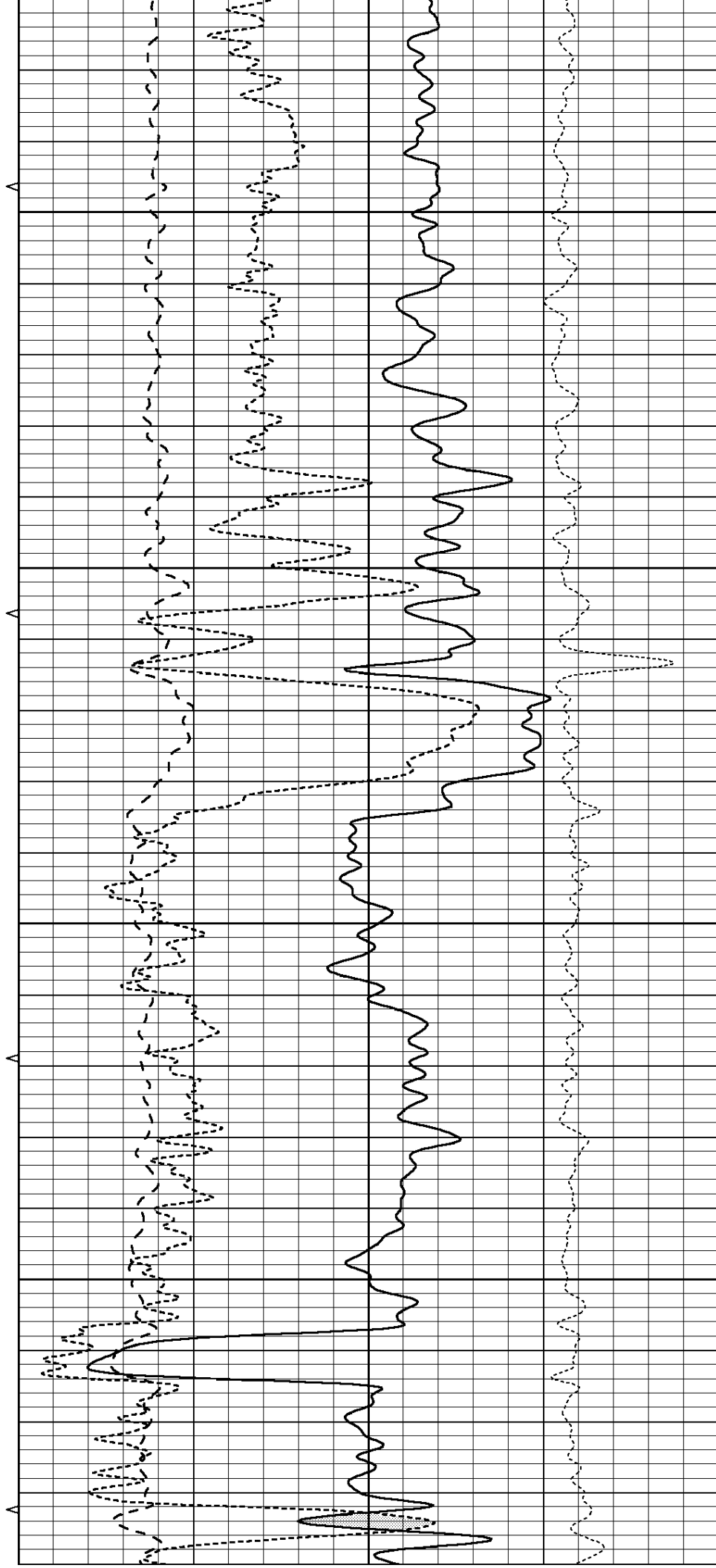
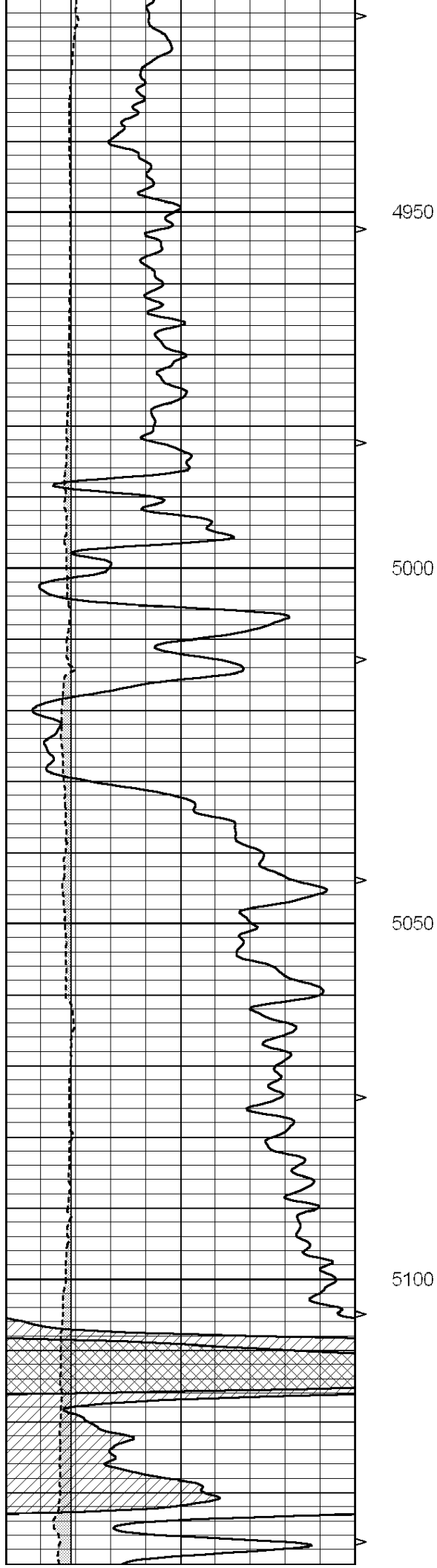
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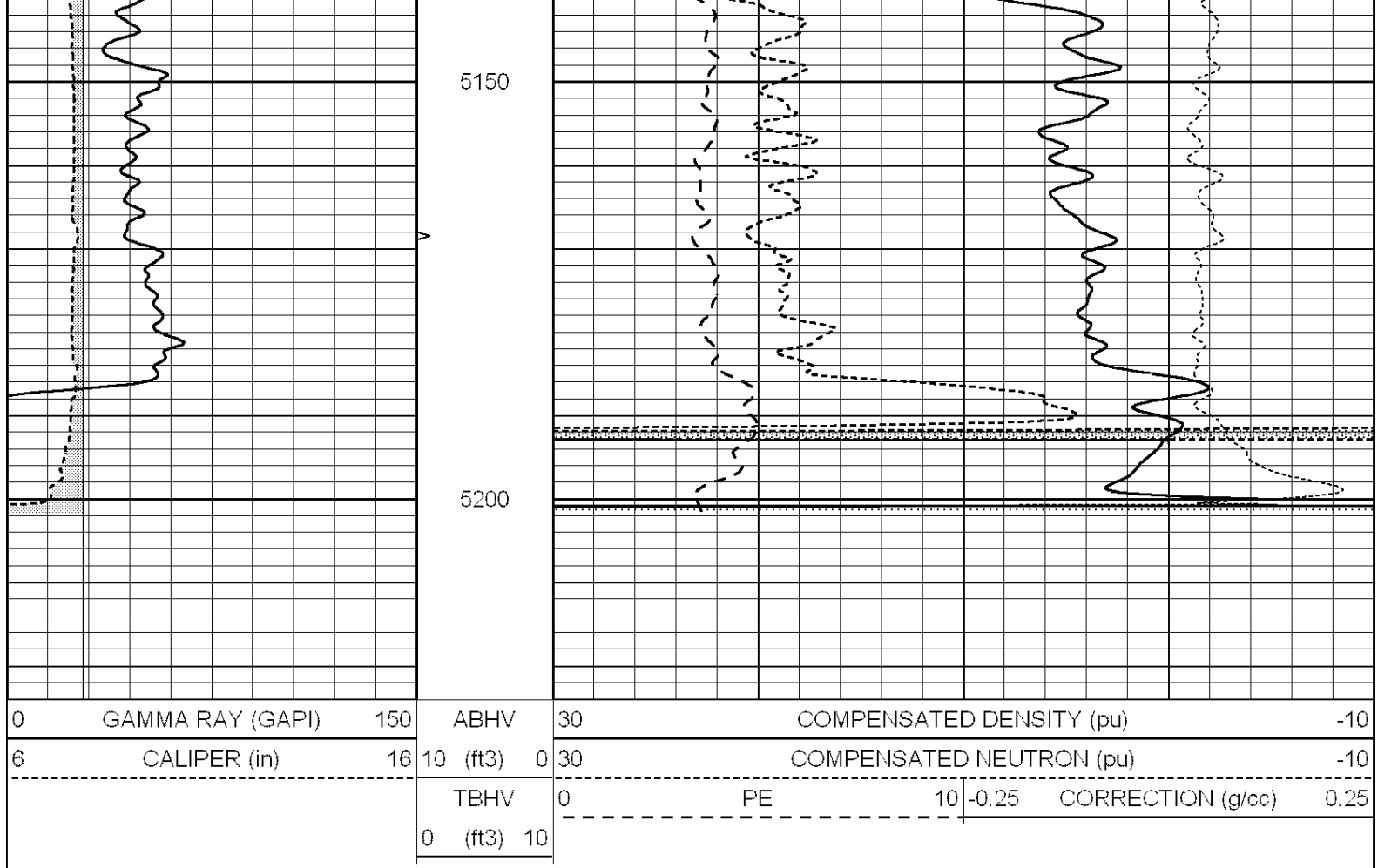
REPEAT SECTION

Database File: 005583pe.db
 Dataset Pathname: pass2.8
 Presentation Format: ldt_neu
 Dataset Creation: Sun Aug 15 16:21:53 2010 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						







Calibration Report

Database File: 005583pe.db
 Dataset Pathname: pass3.10
 Dataset Creation: Sun Aug 15 16:20:52 2010 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL6-GEAR
 Performed: Sun Aug 15 13:35:29 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	-4.000
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					
Low Ref	Readings 1.2	Reference 6.4			
High Ref	3.2	14.0			
	Gain: 3.8		Offset: 1.7		

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:	Sun Aug 15 14:45:58 2010	
Calibrator Value:	200.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	1.5000	GAPI/cps