



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
PE LOG**

Company LOTUS OPERATING COMPANY, LLC. Well #2 BURGESS Field STRANATHAN County BARBER State KANSAS		Company LOTUS OPERATING COMPANY, LLC. Well #2 BURGESS Field STRANATHAN County BARBER State KANSAS	
Location: 1485' FNL & 990' FEL SEC 35 TWP 34S RGE 12W Permanent Datum GROUND LEVEL Elevation 1426 Log Measured From KELLY BUSHING 13' A.G.L. Drilling Measured From KELLY BUSHING		API # : 15-007-23968-0000 Other Services DIL/MEL SONIC Elevation K.B. 1439 D.F. 1437 G.L. 1426	
Date	11/26/12		
Run Number	ONE		
Depth Driller	5486		
Depth Logger	5488		
Bottom Logged Interval	5464		
Top Log Interval	3700		
Casing Driller	10 3/4" @ 285'		
Casing Logger	285		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,500 PPM	
Density / Viscosity	9.5/42		
pH / Fluid Loss	10.5/9.6		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.850 @ 100F		
Rmf @ Meas. Temp	.638 @ 100F		
Rmc @ Meas. Temp	1.02 @ 100F		
Source of Rmf / Rmc	MEASUREMENT		
Rin @ BHT	.659 @ 129F		
Time Circulation Stopped	3.5 HOURS		
Time Logger on Bottom	9:00 P.M.		
Maximum Recorded Temperature	129F		
Equipment Number	4854		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	TIM HELLMAN		

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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. (HWY 160 & 281) 16S. ON HWY 281 TO "RATTLESNAKE RD.", 1W., 1/2S., W. INTO



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

010022pe.db

Dataset Pathname:

pass3.5

Presentation Format:

ldt_neu

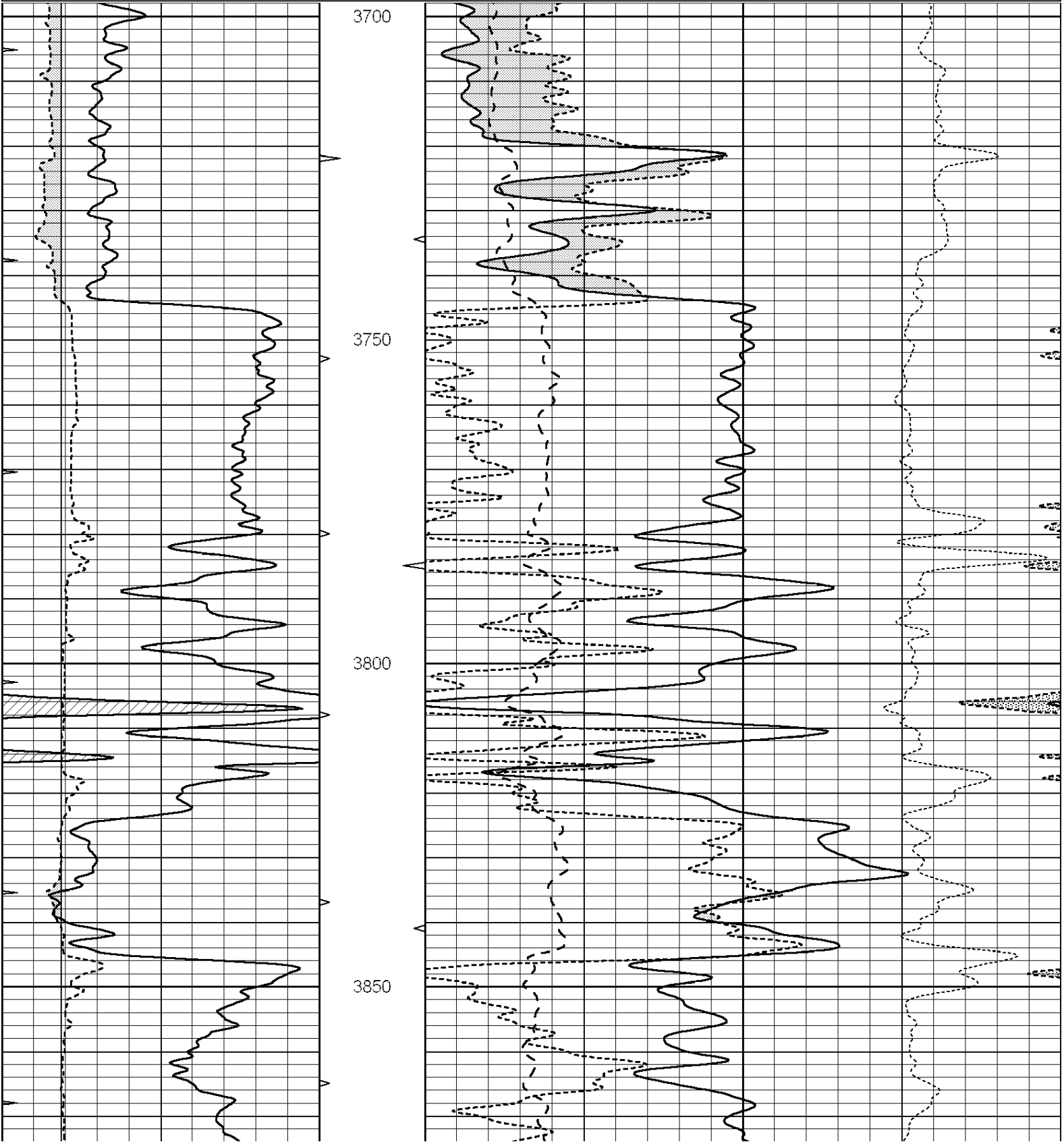
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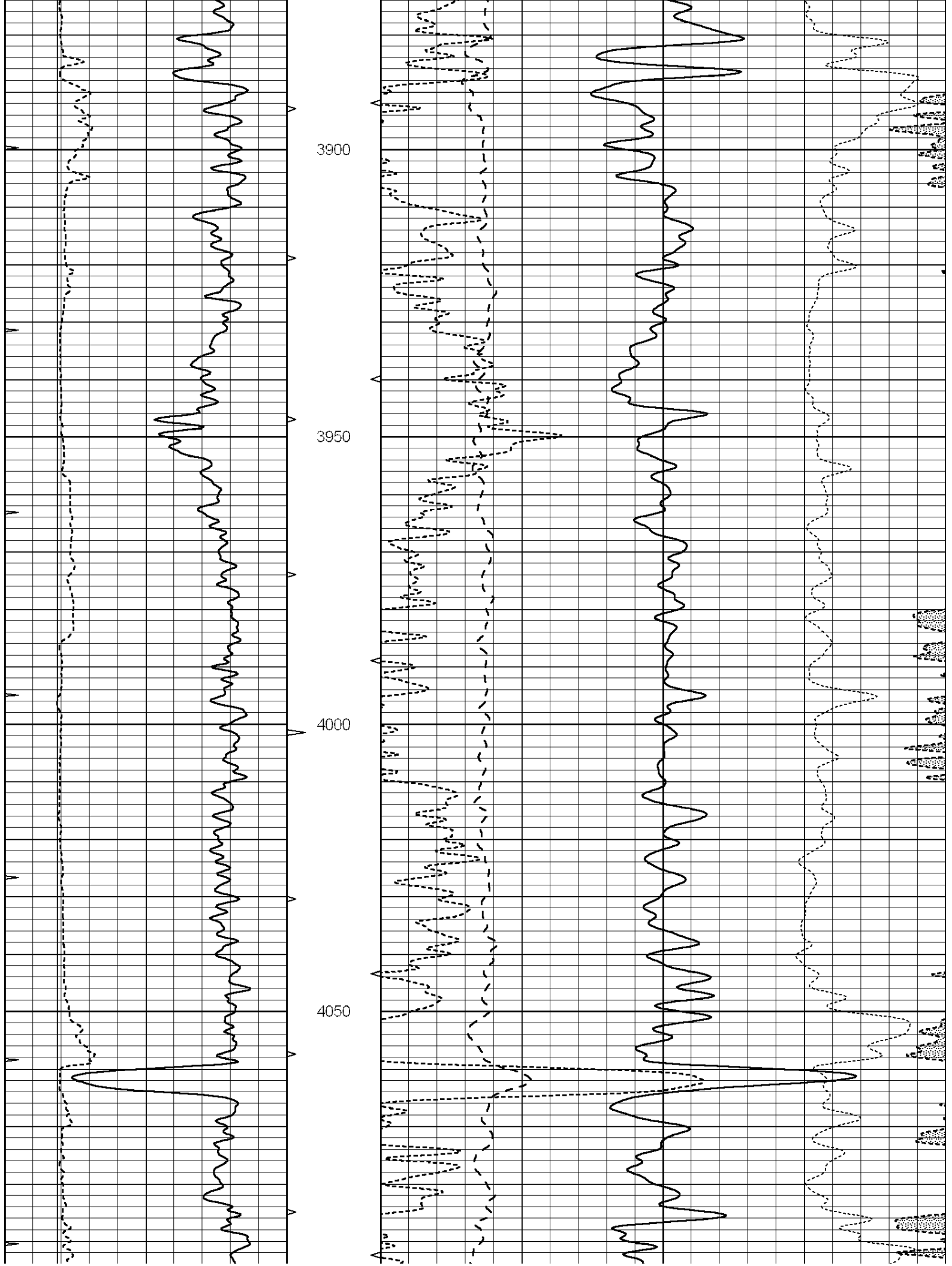
Mon Nov 26 22:55:55 2012 by Calc SOC 120430

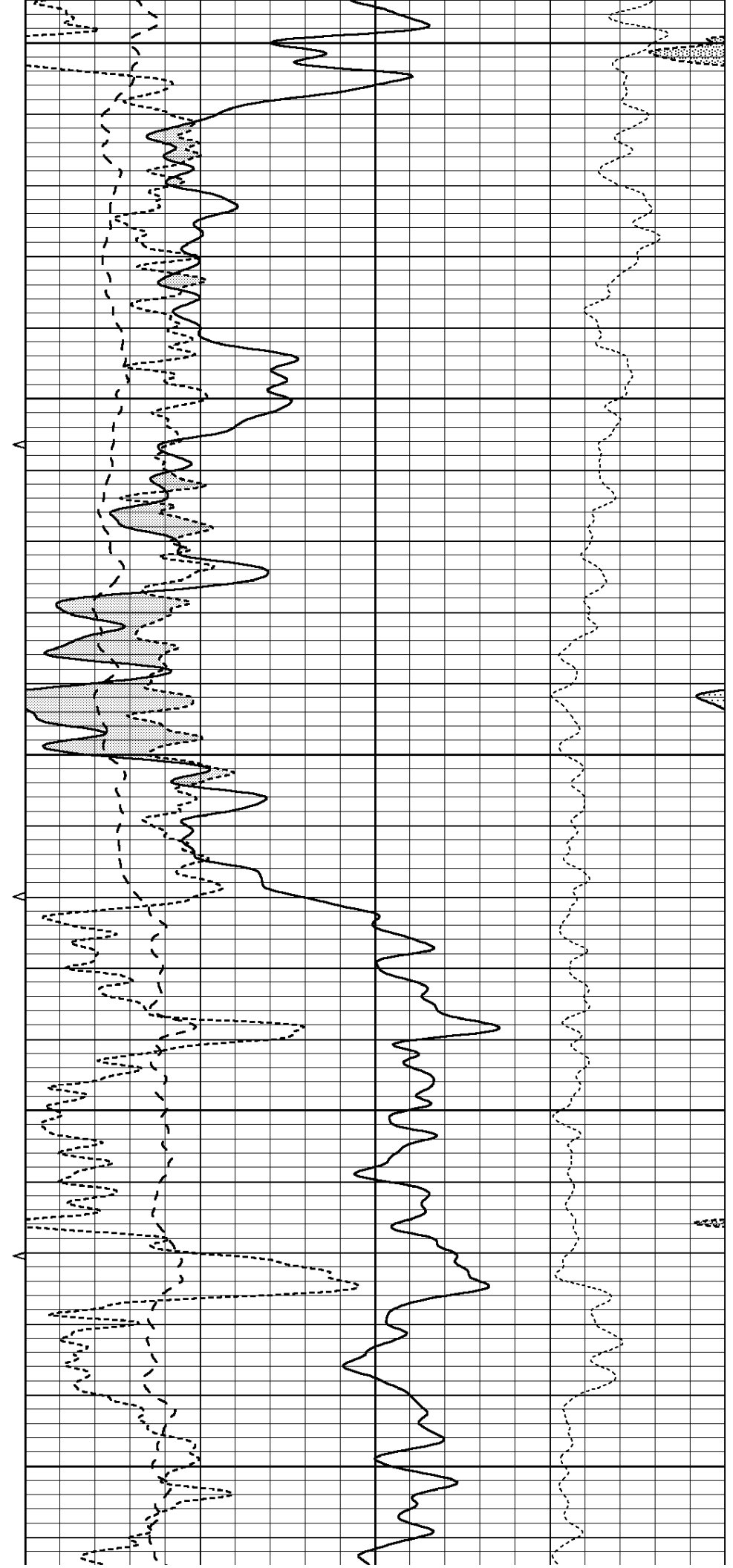
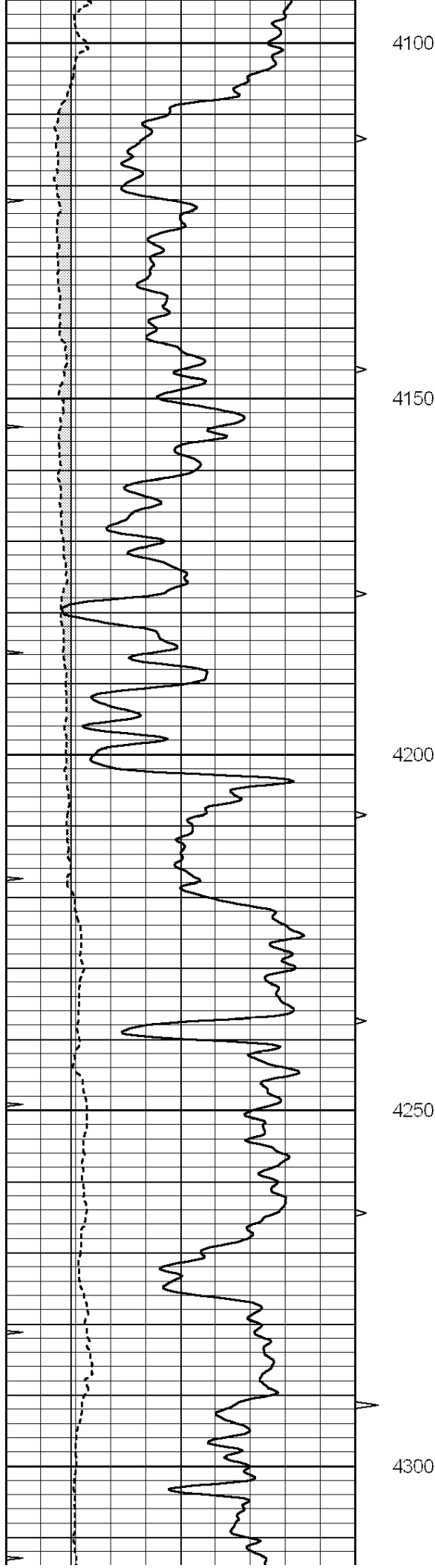
Charted by:

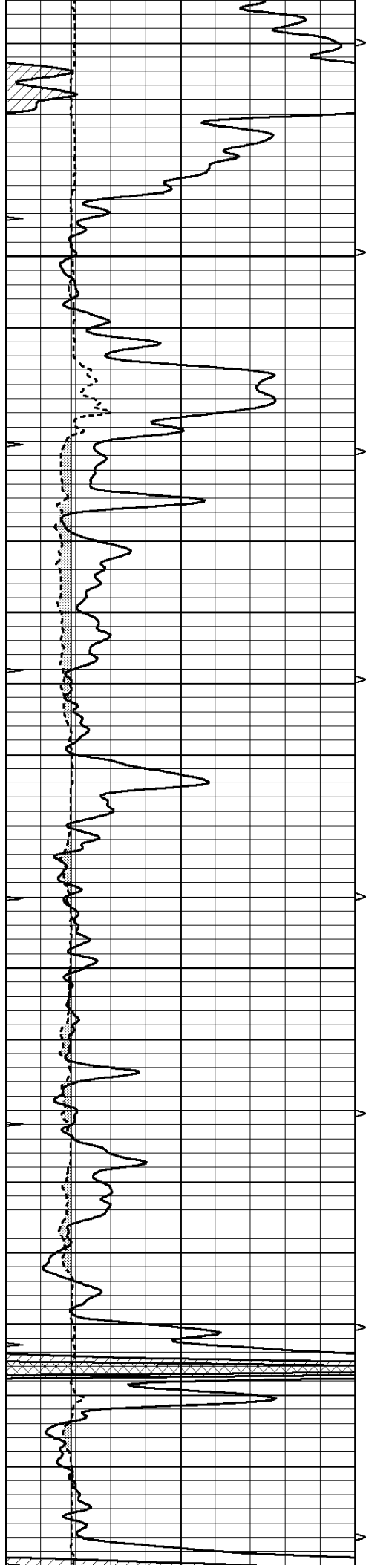
Depth in Feet scaled 1:240

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						







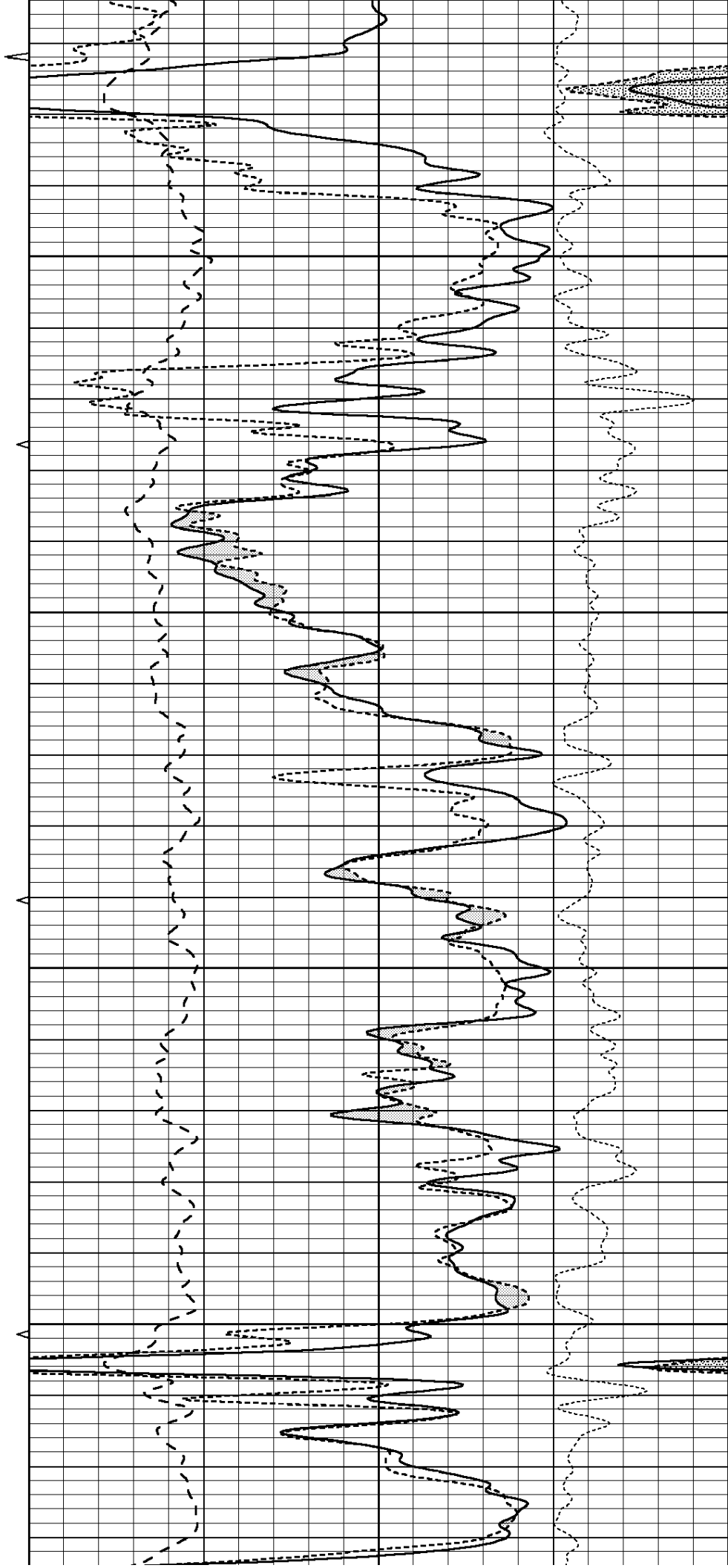


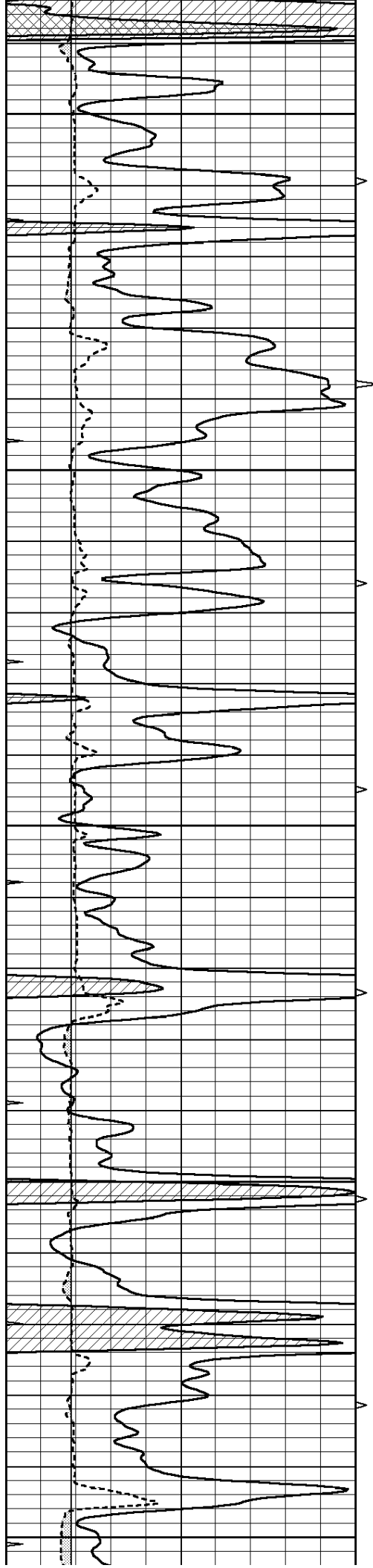
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4400

4450

4500





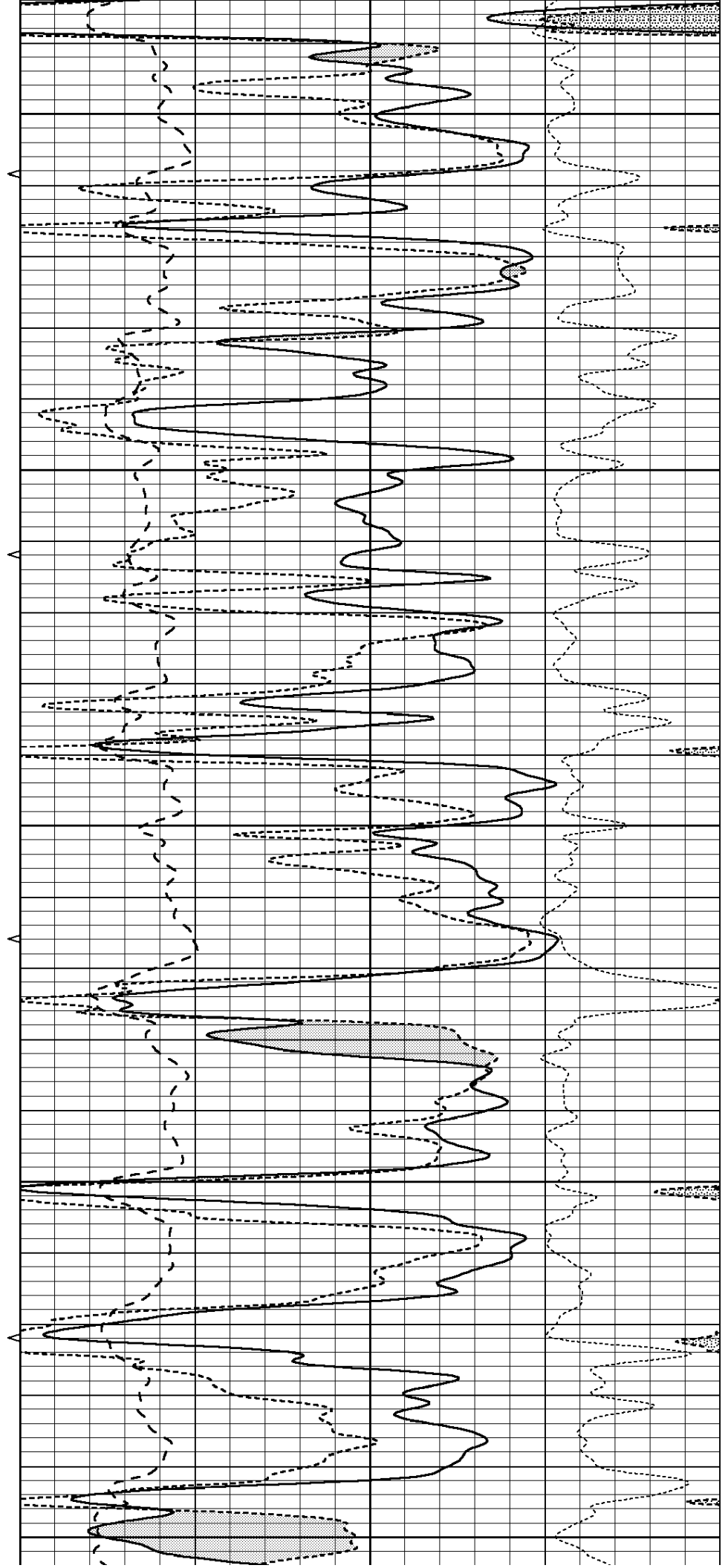
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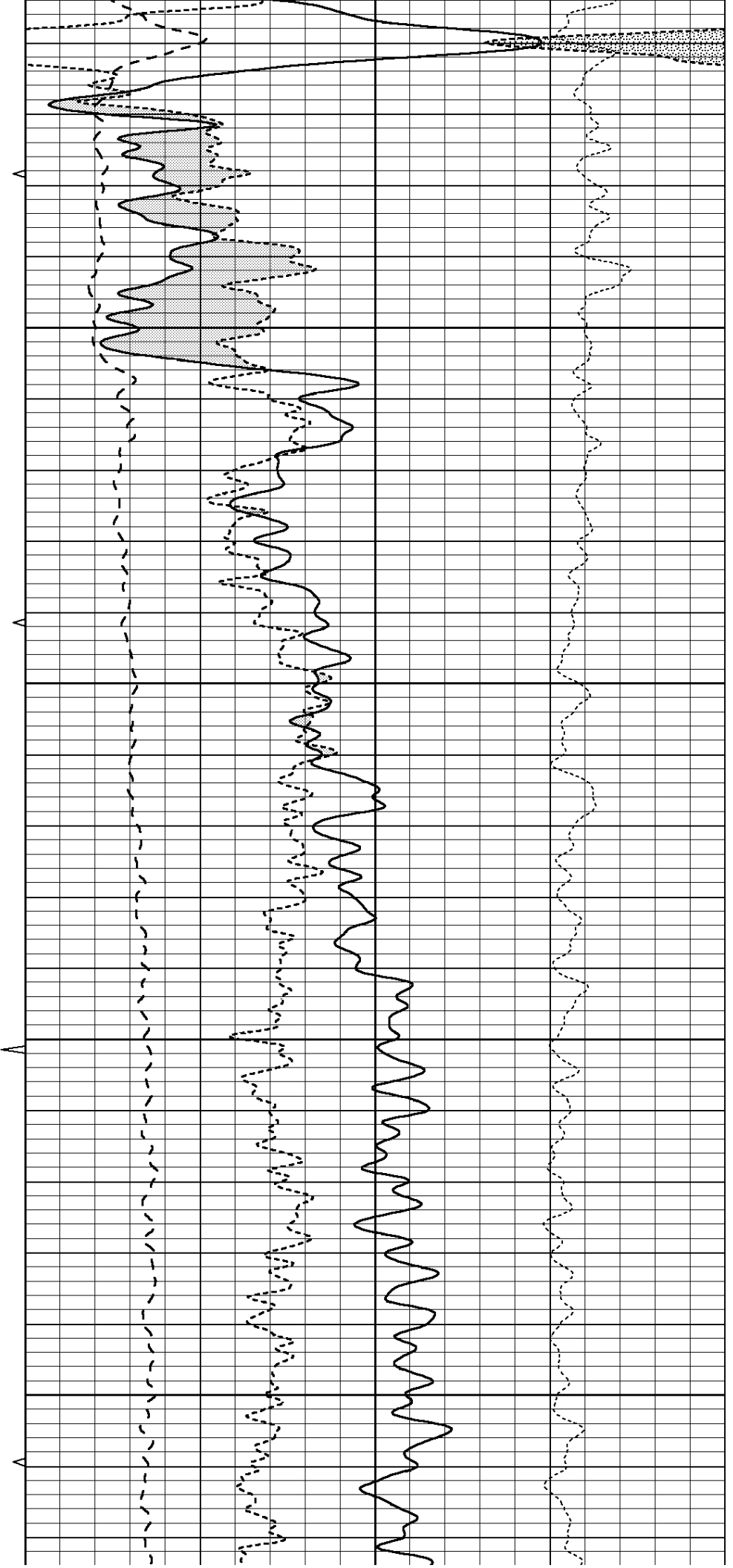
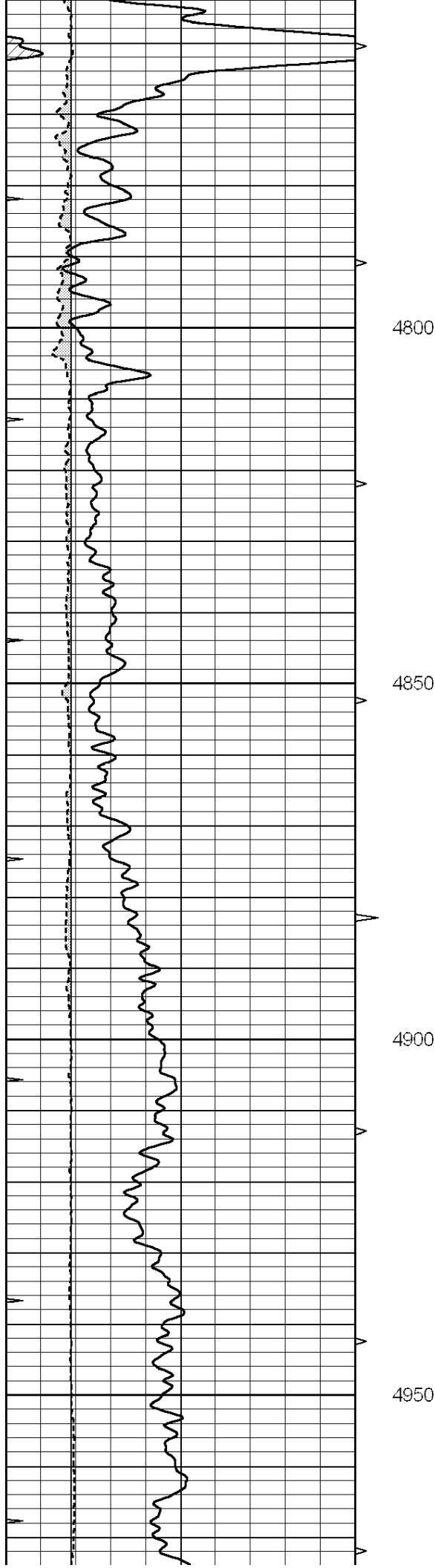
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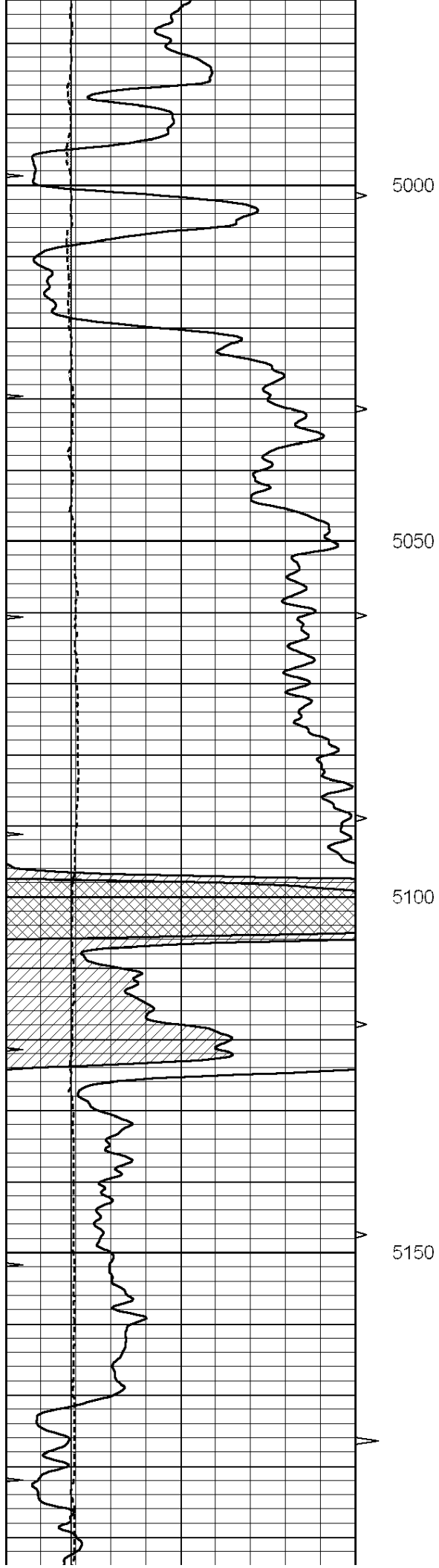
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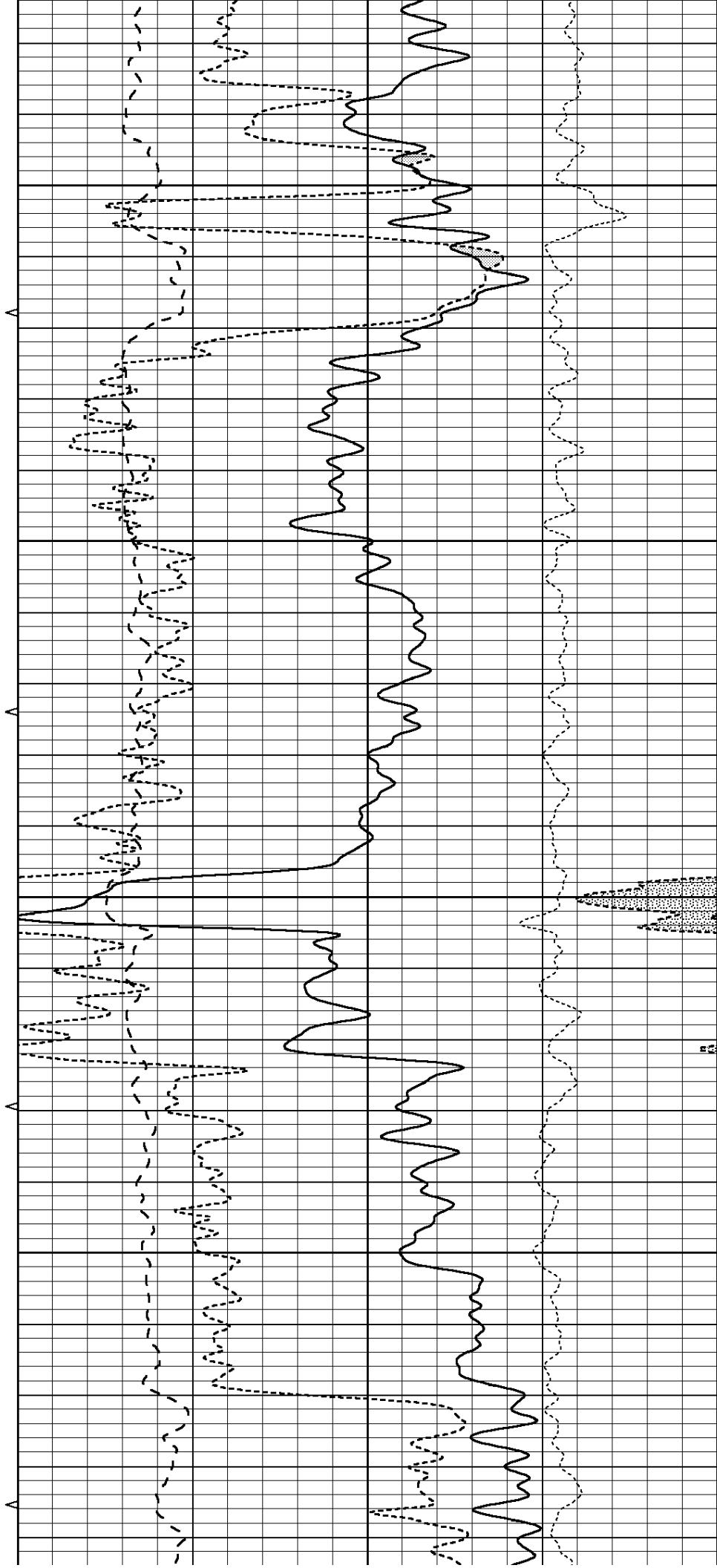


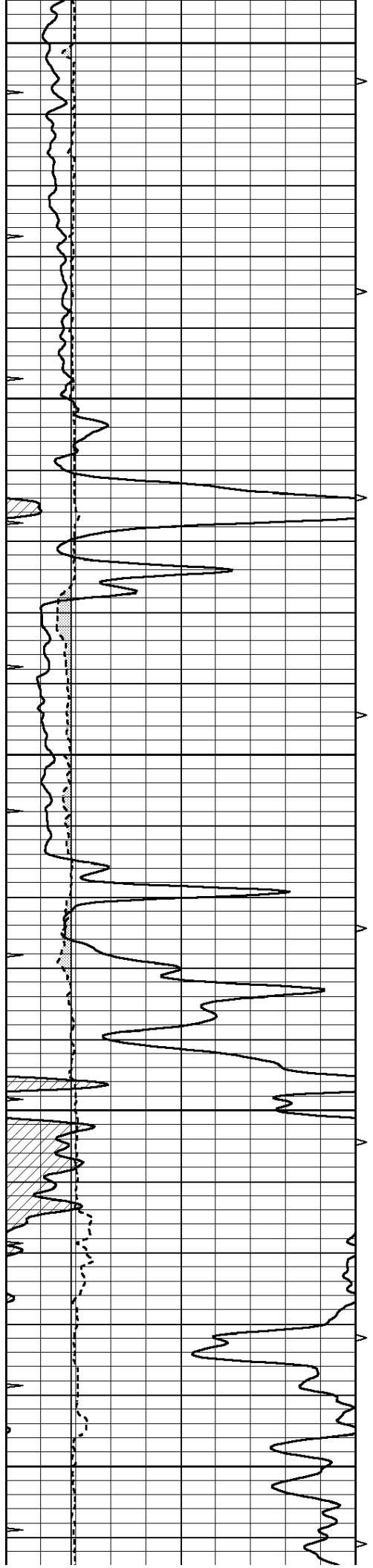
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5100

5150





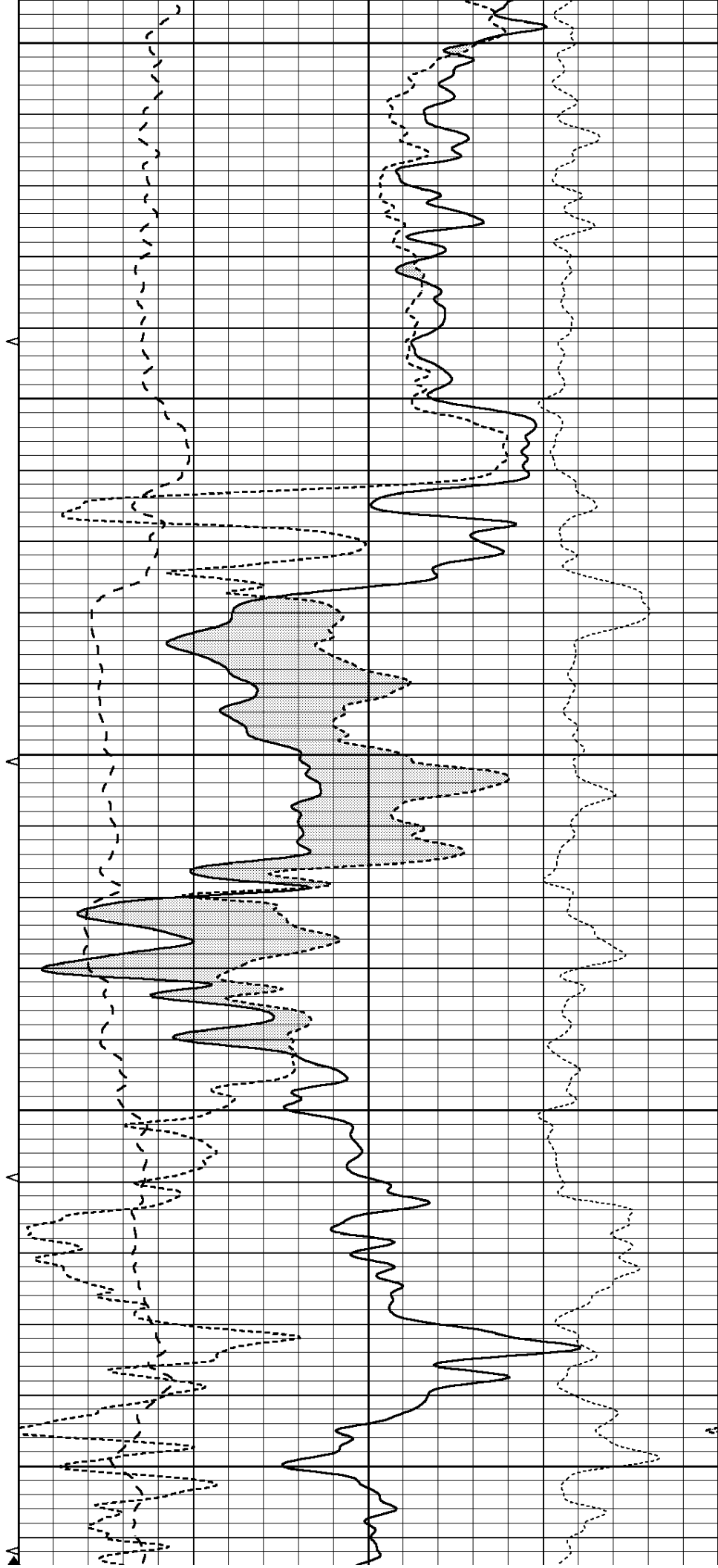
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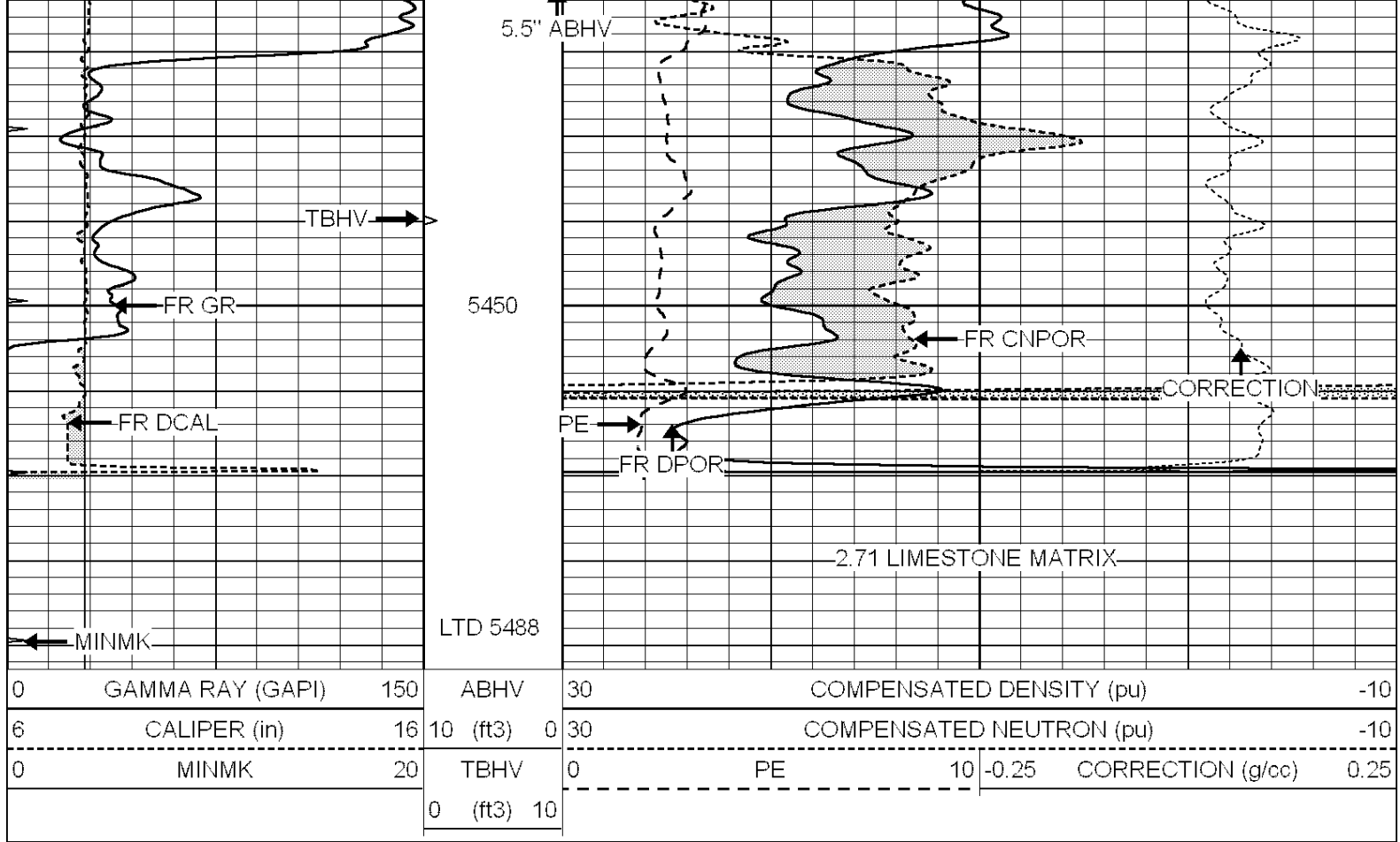
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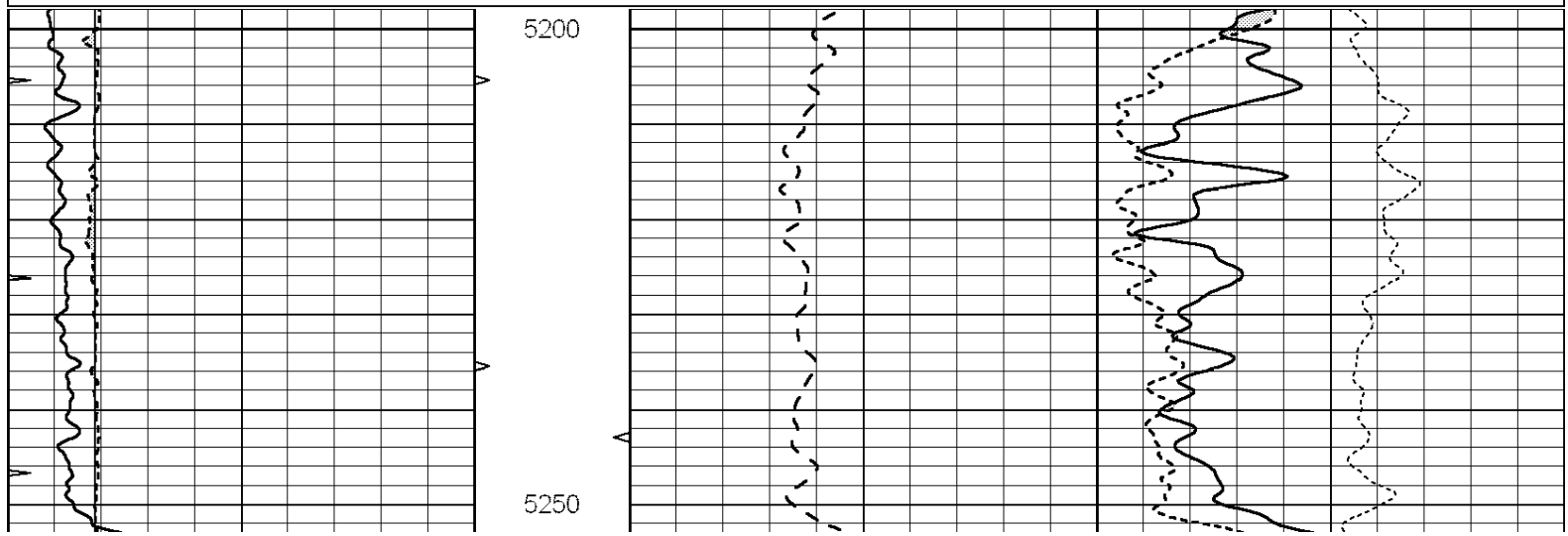


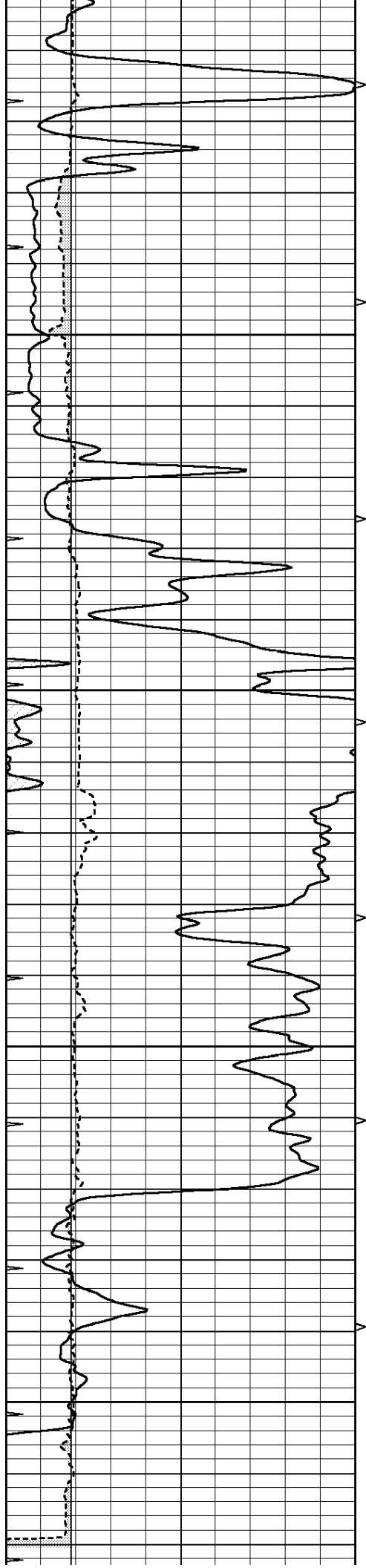


REPEAT SECTION

Database File: 010022pe.db
 Dataset Pathname: pass2.9
 Presentation Format: ldt_neu
 Dataset Creation: Mon Nov 26 22:59:17 2012 by Calc SOC 120430
 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		



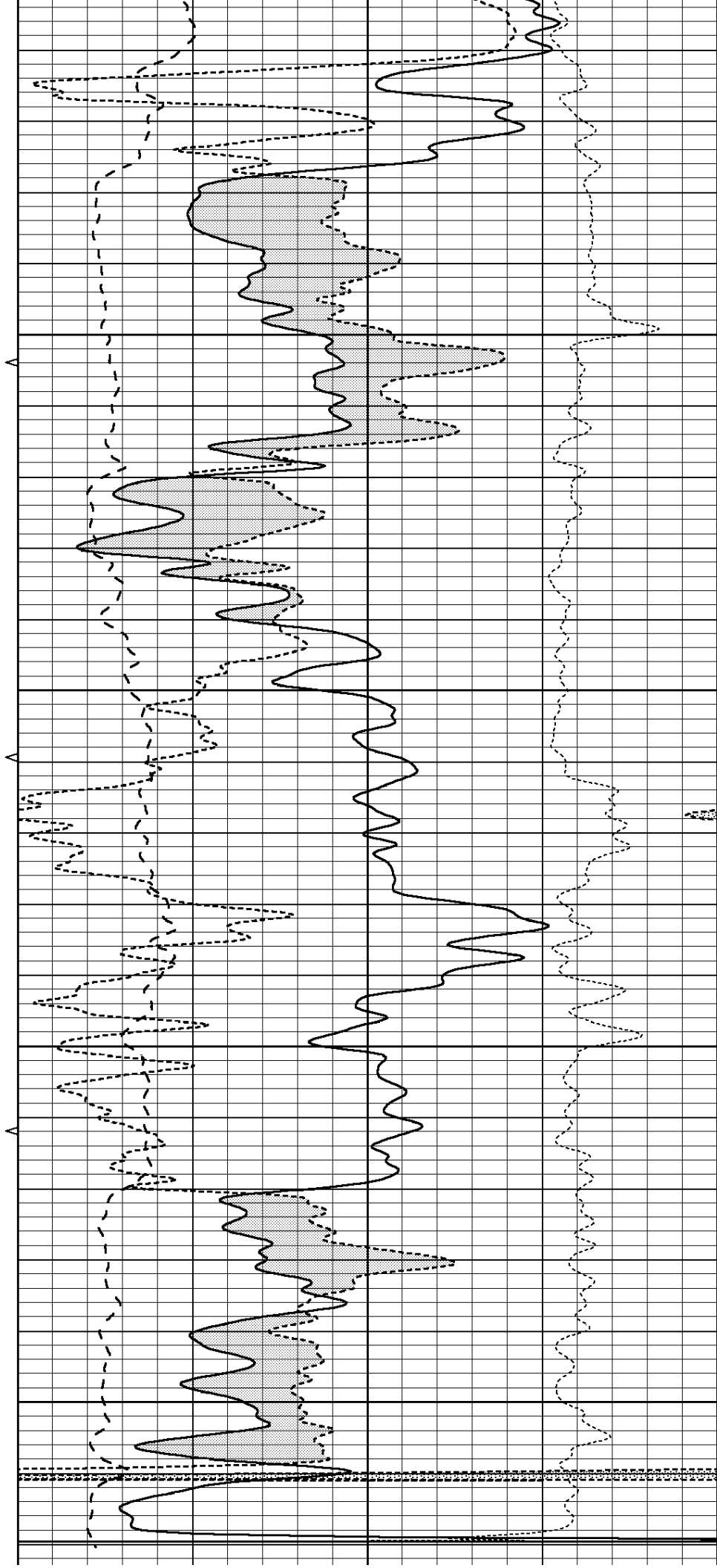


5300

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5400

5450



Calibration Report									
Database File:		010022pe.db							
Dataset Pathname:		pass3.5							
Dataset Creation:		Mon Nov 26 22:55:55 2012 by Calc SOC 120430							
Dual Induction Calibration Report									
Serial-Model: Performed:					DIL3-GEAR Mon Nov 26 21:14:04 2012				
Readings									
References									
Results									
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	9.000	
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-14.000	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.002	0.645	V	0.000	400.000	mmho/m	622.059	-1.071	
Medium	0.007	0.740	V	0.000	462.500	mmho/m	631.393	-4.555	
Litho Density Calibration Report									
Serial: 006 Model: PRB									
Performed Sun Aug 15 09:48:41 2010									
Litho Density Calibration									
	Background			Magnesium			Aluminum		
							Sandstone		
Window 1	1686.6			11612.8			12718.8		cps
Window 2	1531.4			9204.7			9851.9		cps
Window 3	1198.3			4733.6			4920.6		cps
Window 4	317.3			321.2			303.6		cps
Long Space	0.0			7673.3			8320.4		cps
Short Space	1.7			2548.5			2628.8		cps
Rho				1.7100			1.3800		g/cc
Pe							1.5500		
Rib Angle	: 43.8			Rib Slope	: 0.961		Density/Spine Ratio		: 0.569
Spine Angle	: 73.8			Spine Slope	: 3.453		Spine Intercept		: -18.1
Caliper									
	Readings			Reference					
Low Ref	3.5			6.6					
High Ref	5.5			15.0					
	Gain: 4.4					Offset: -8.8			
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:	070559		
Tool Model:	OPEN_GR		
Performed:	Wed Sep 19 15:58:00 2012		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	