



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company	LOTUS OPERATING COMPANY, LLC.		
Well	C.R. WETZ #5		
Field	STRANATHAN		
County	BARBER	State	KANSAS
Location:	API # : 15-007-23581		Other Services DIL SONIC/MEL
SEC 36 TWP 34S RGE 12W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	1411
Log Measured From	KELLY BUSHING 9' A.G.L.	K.B.	1420
Drilling Measured From	KELLY BUSHING	D.F.	
		G.L.	1411
Date	8-10-10		
Run Number	ONE		
Depth Driller	5160		
Depth Logger	5159		
Bottom Logged Interval	5135		
Top Log Interval	3700		
Casing Driller	268		
Casing Logger	268		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5 / 47		
pH / Fluid Loss	10.0 / 12.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.60 @ 93F		
Rmf @ Meas. Temp	0.45 @ 93F		
Rmc @ Meas. Temp	0.72 @ 93F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.440 @ 126F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	1:00 P.M.		
Maximum Recorded Temperature	126F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: MEDICINE LODGE, S TO MM#7, 1/2W, N INTO.

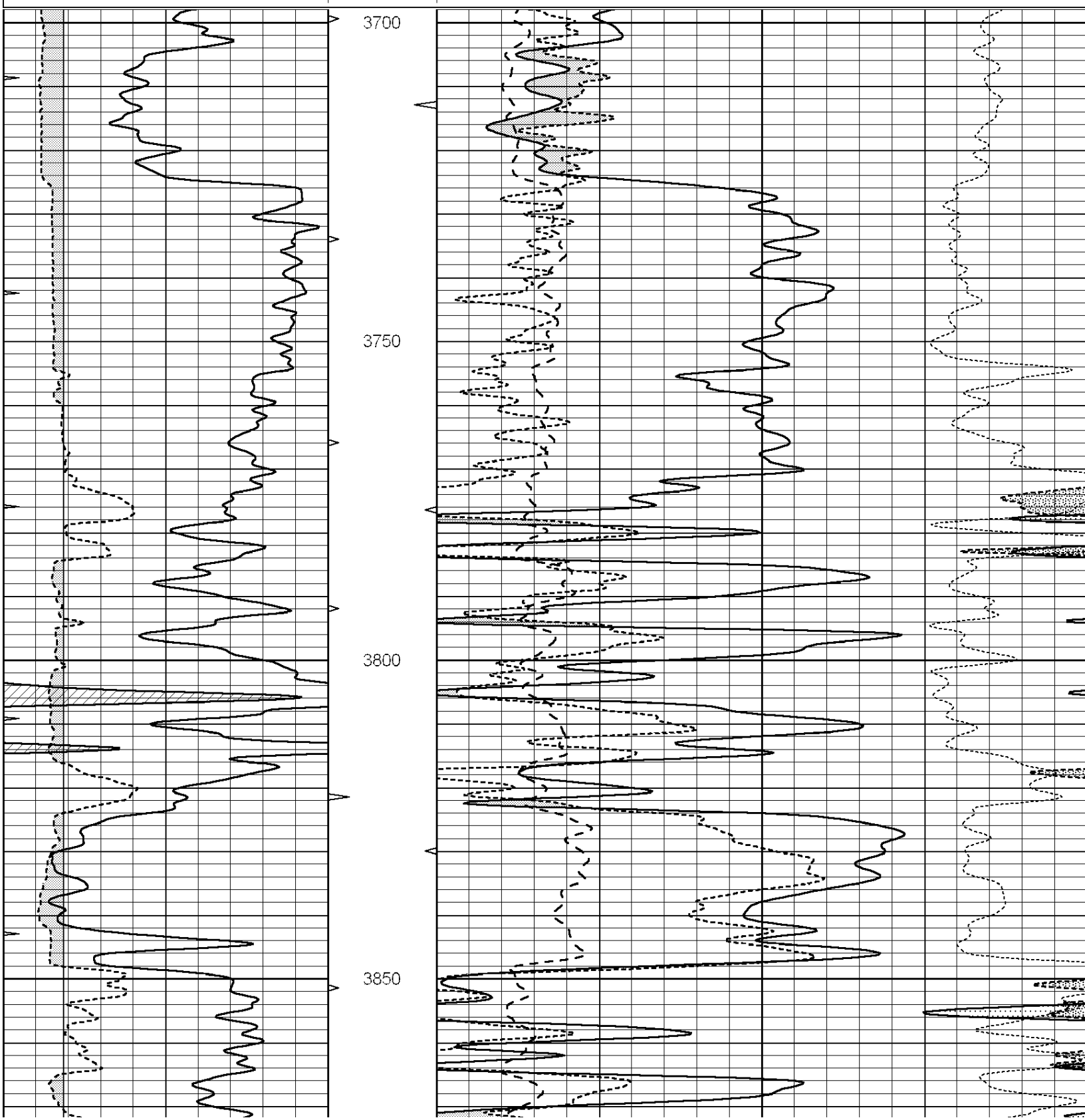


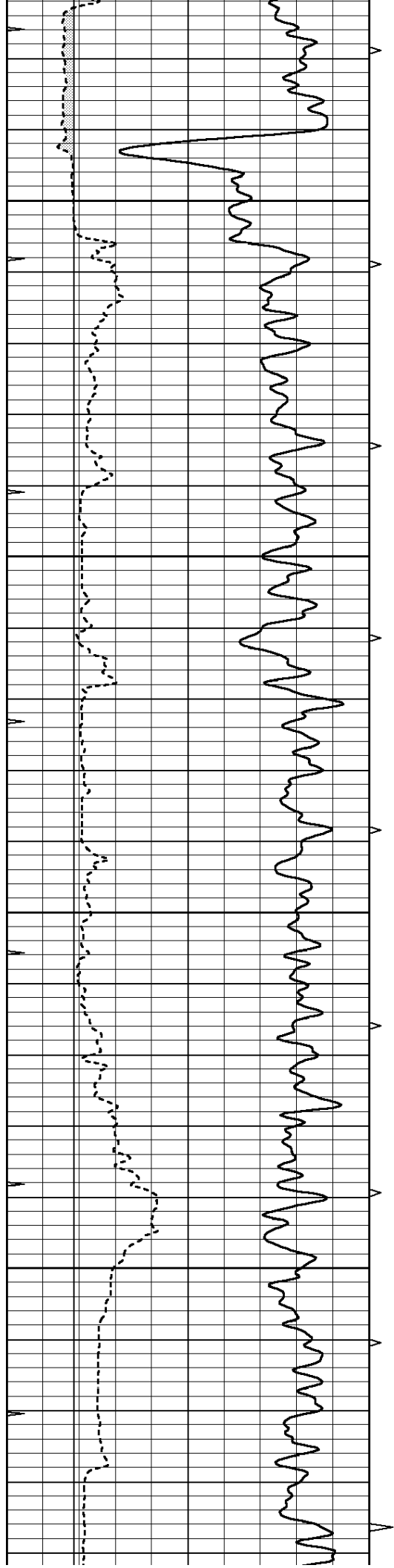
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MAIN SECTION

Database File: 005639pdr.db
 Dataset Pathname: pass3.2A
 Presentation Format: ldt_neu
 Dataset Creation: Tue Aug 10 16:08:07 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	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		



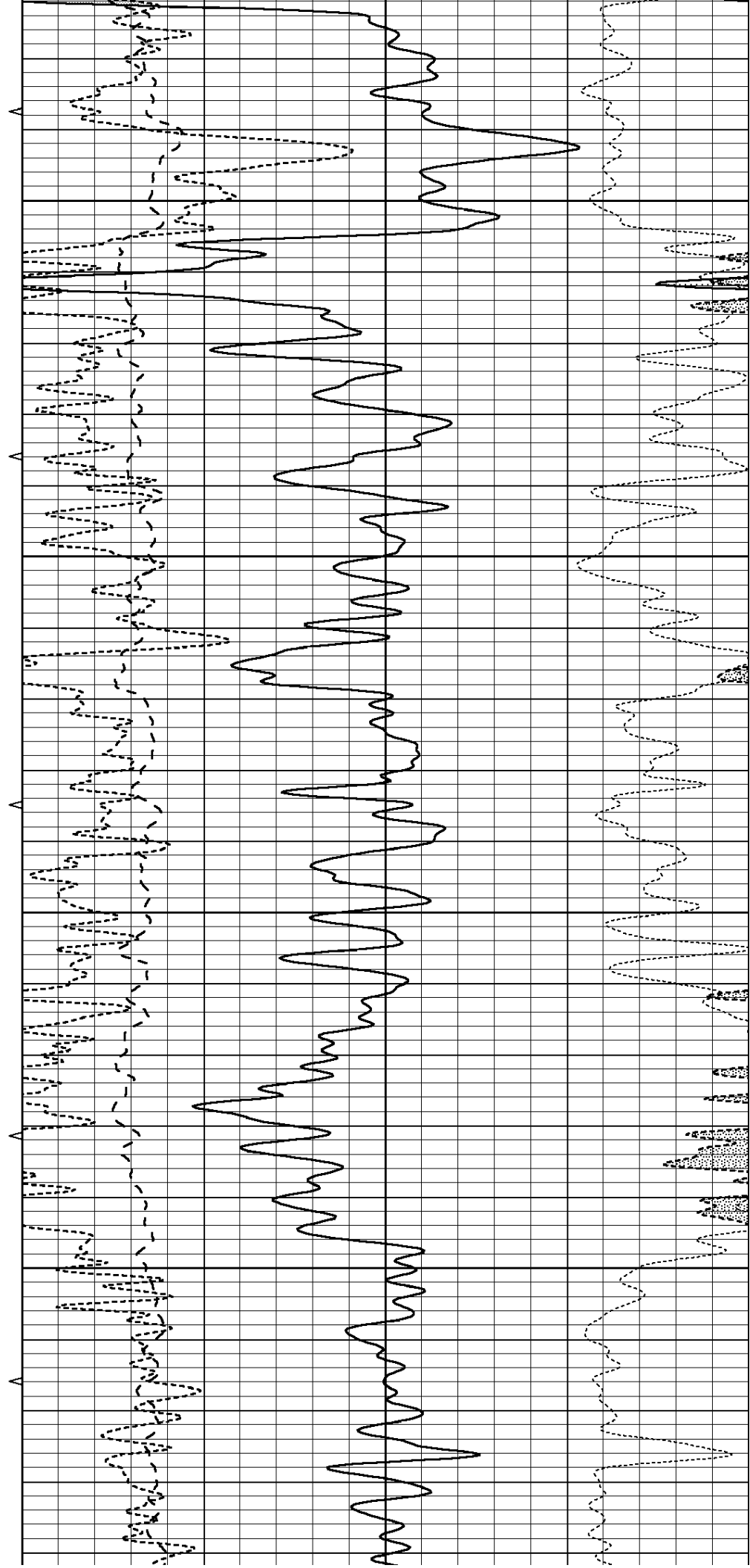
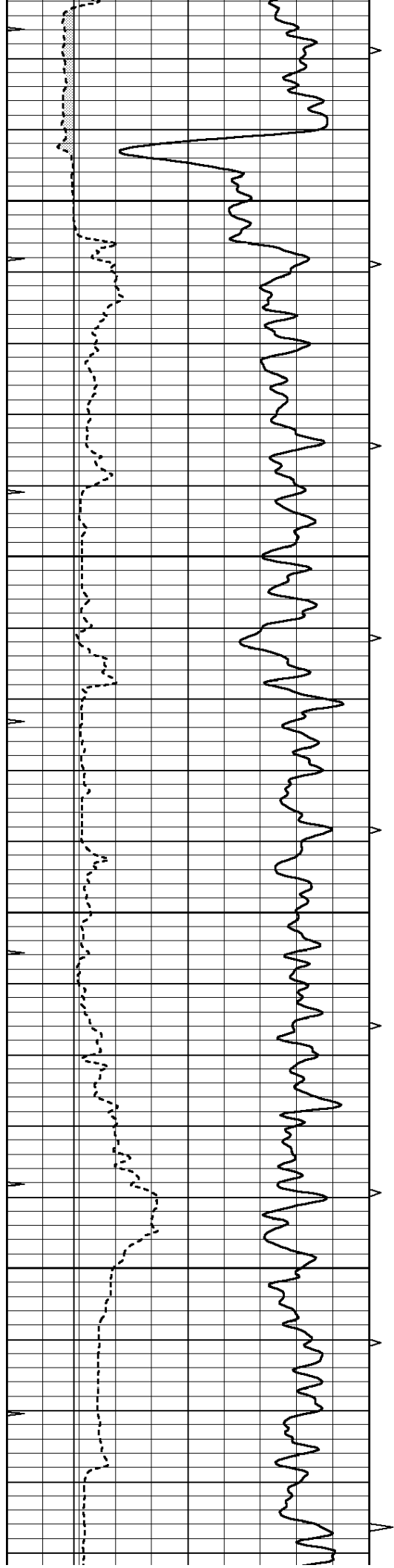
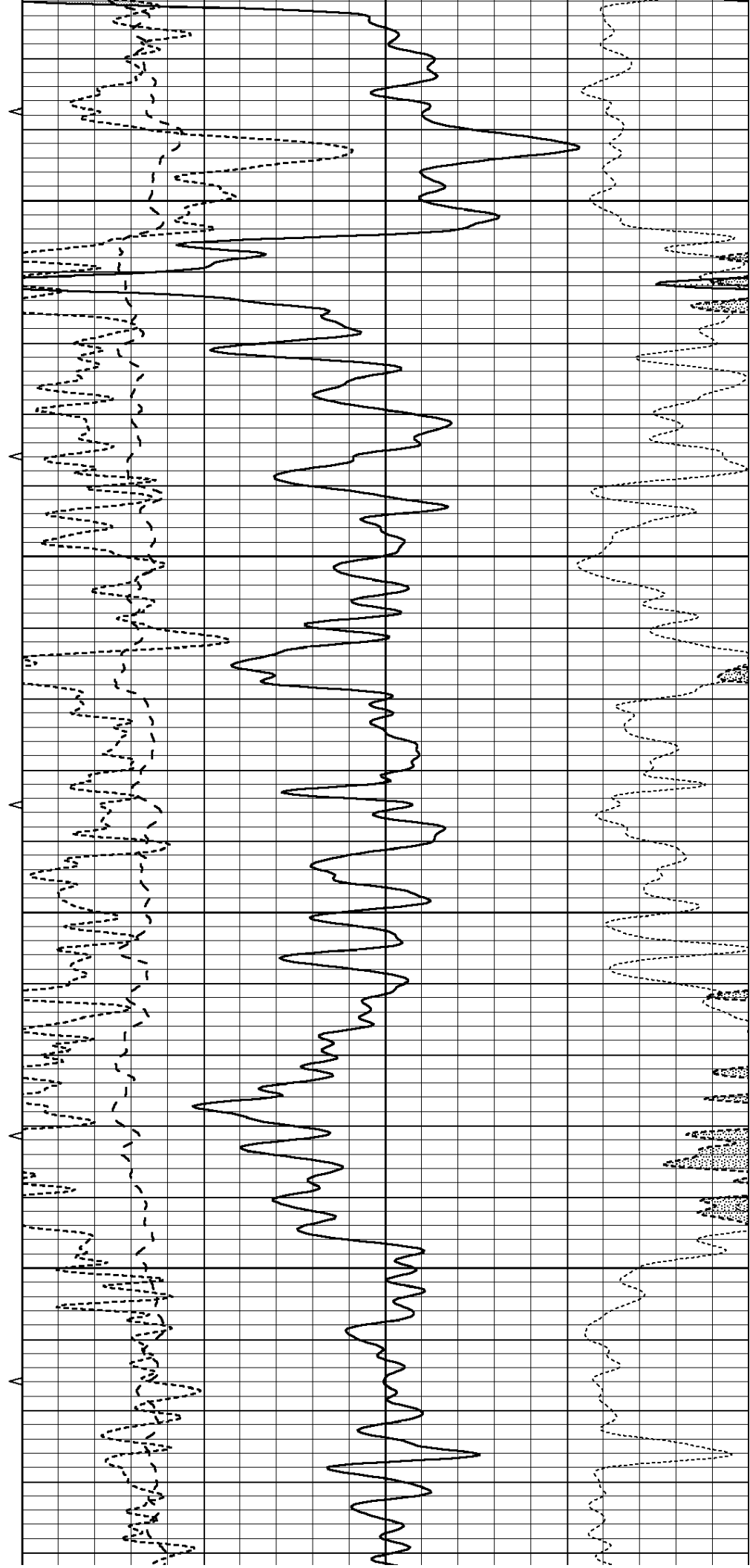


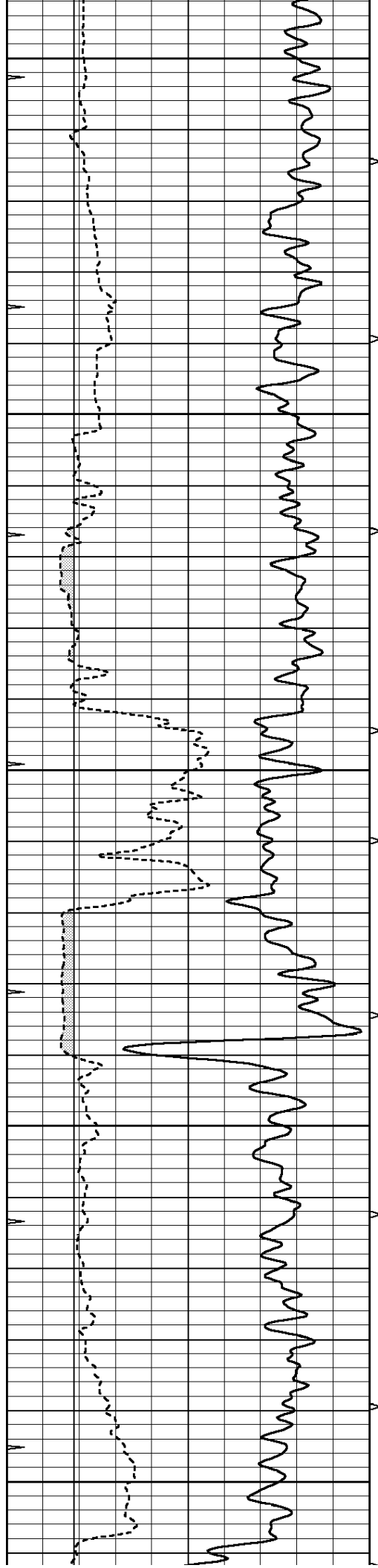
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3950

4000

4050





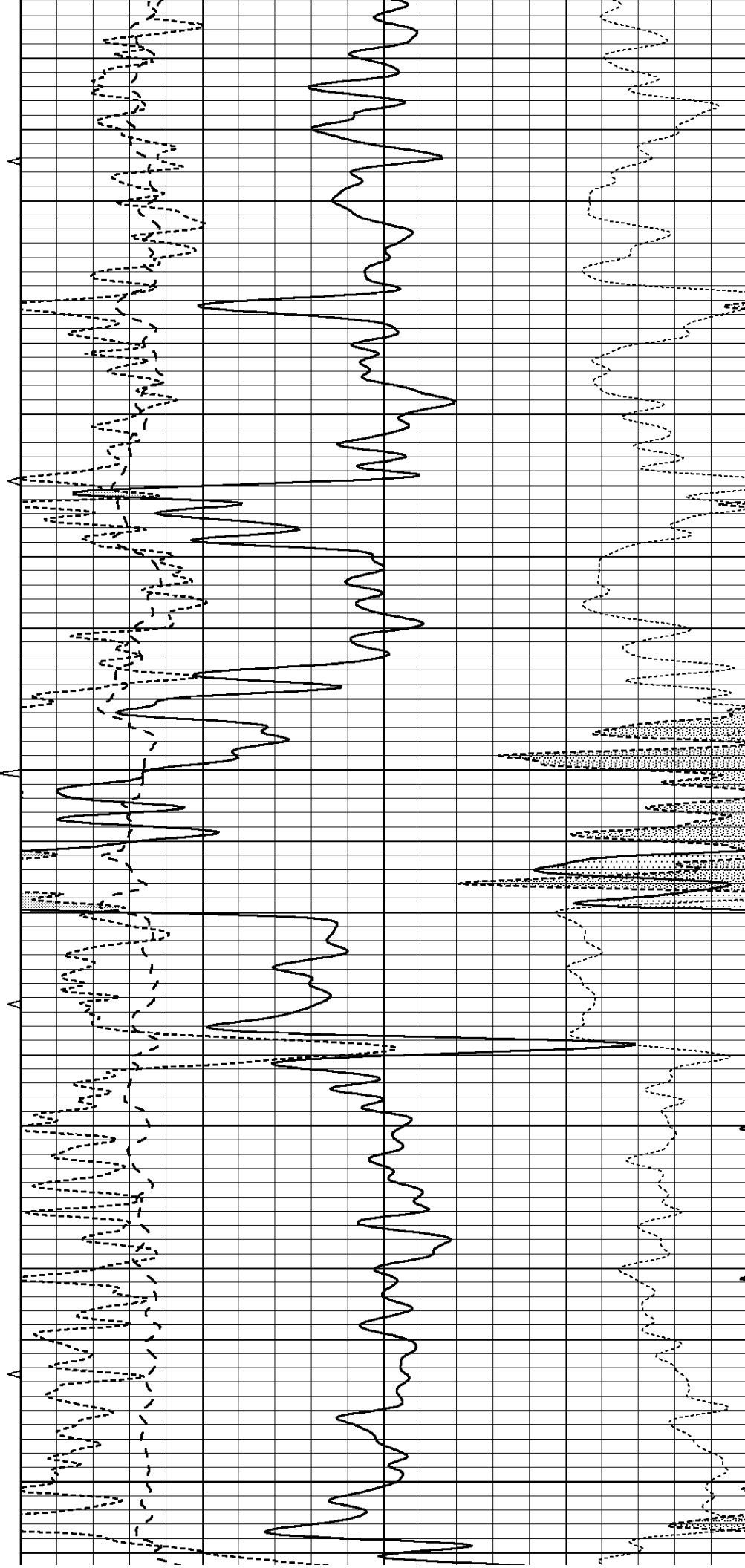
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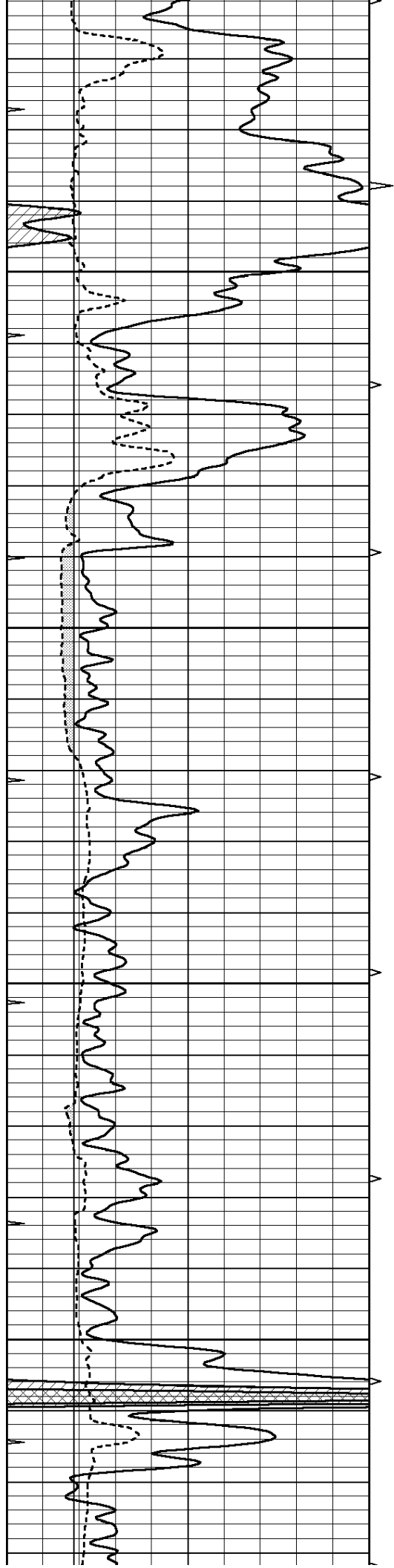
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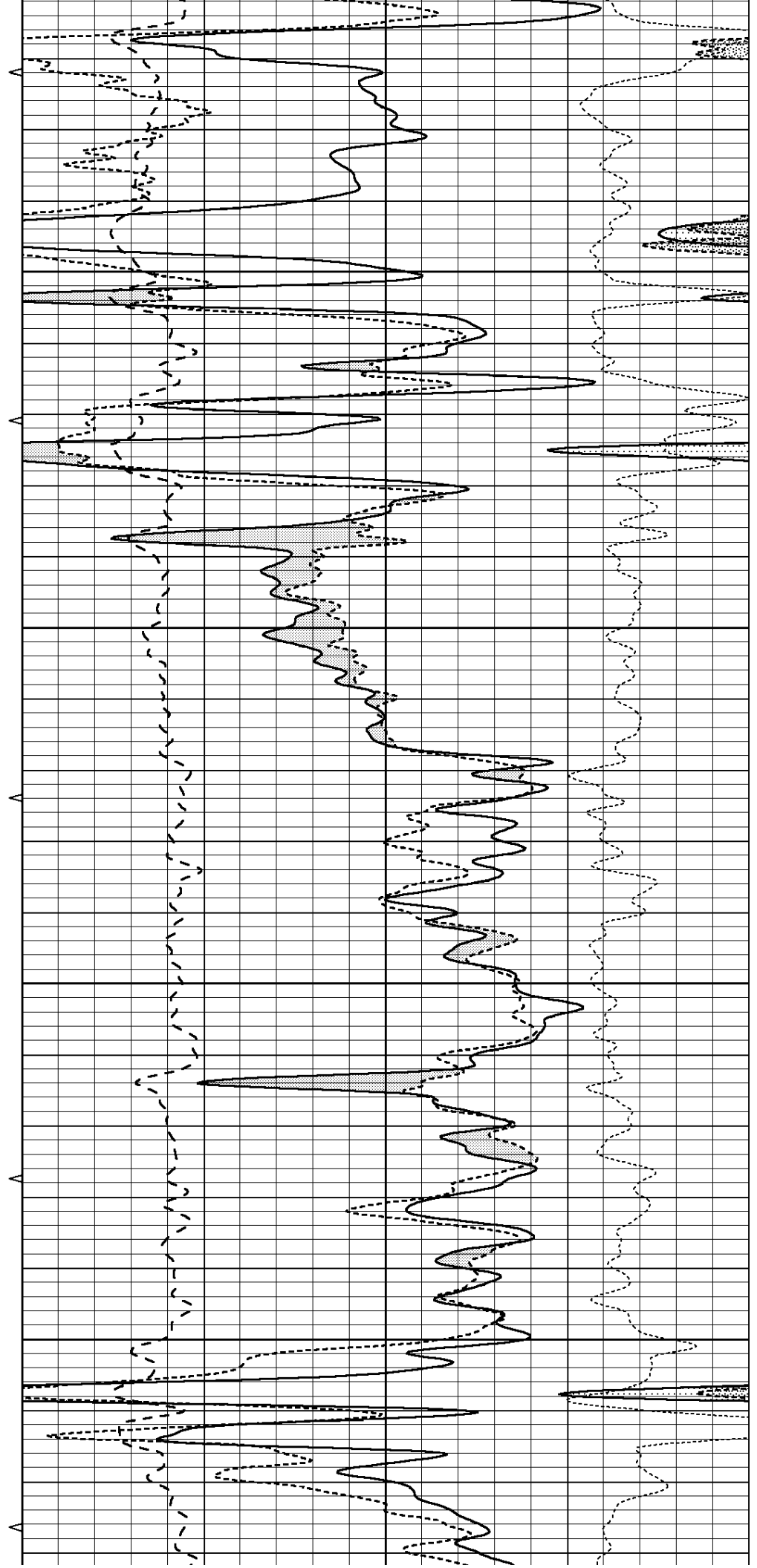


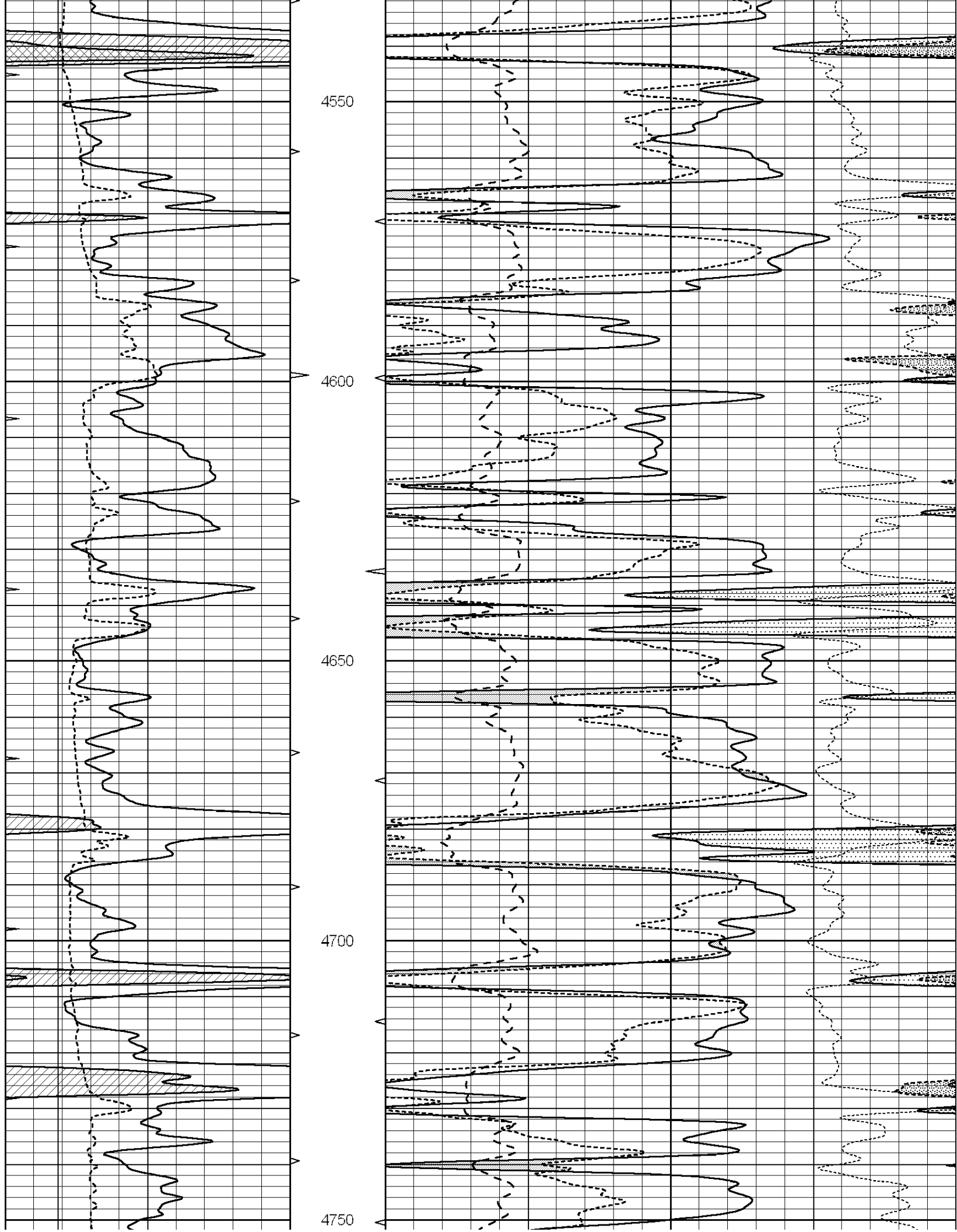
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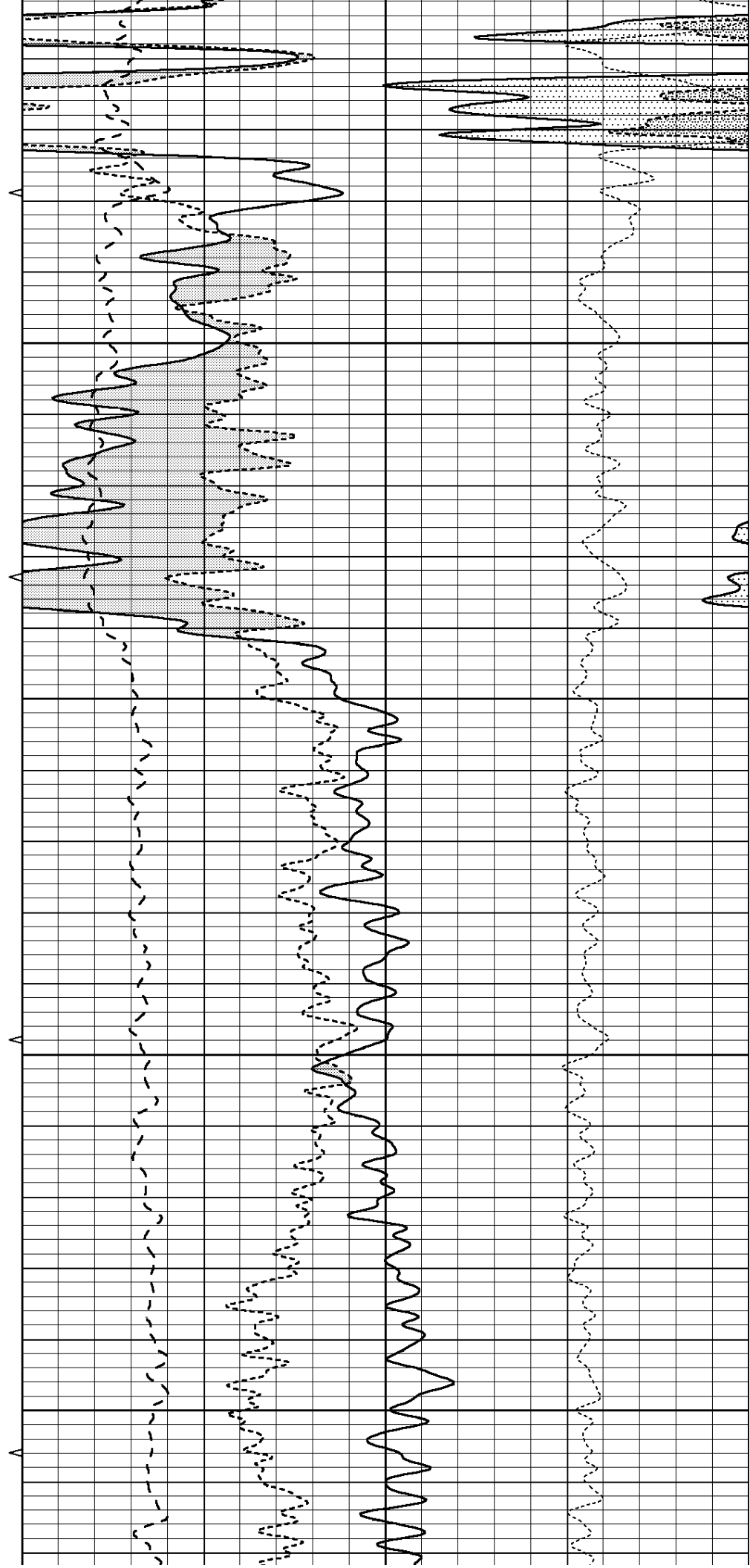
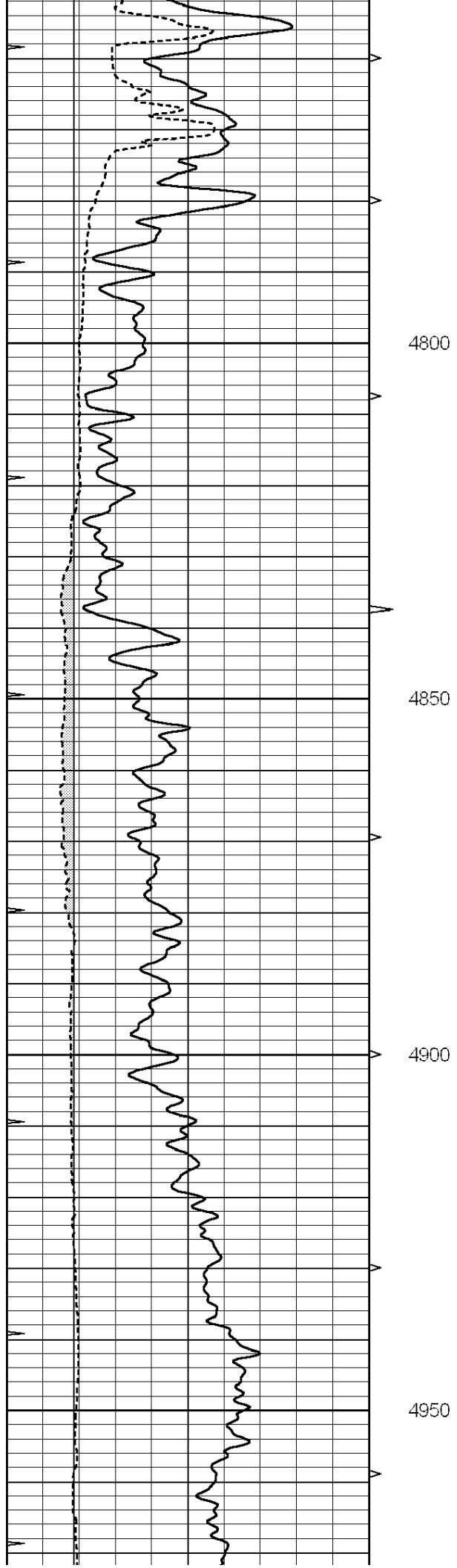
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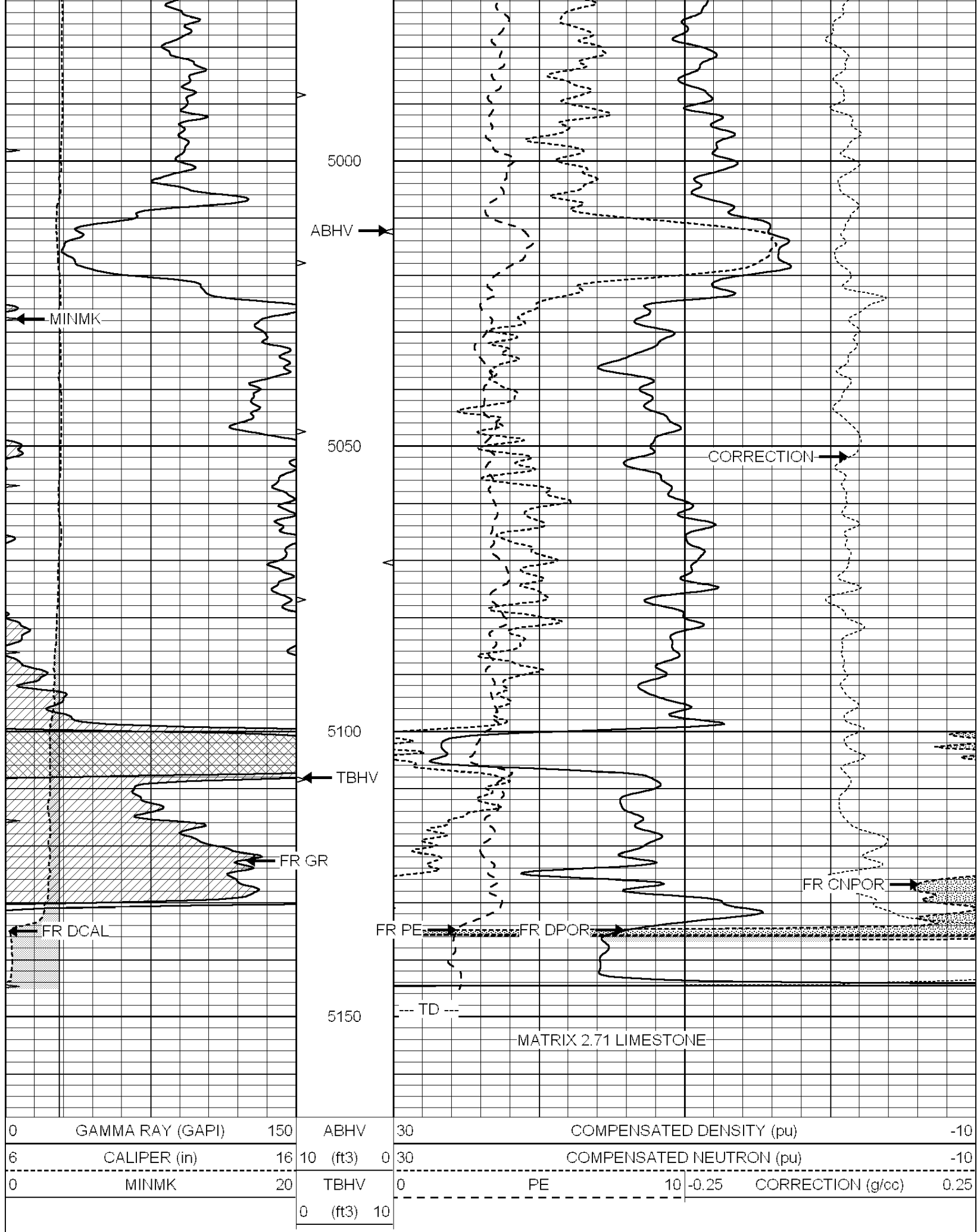
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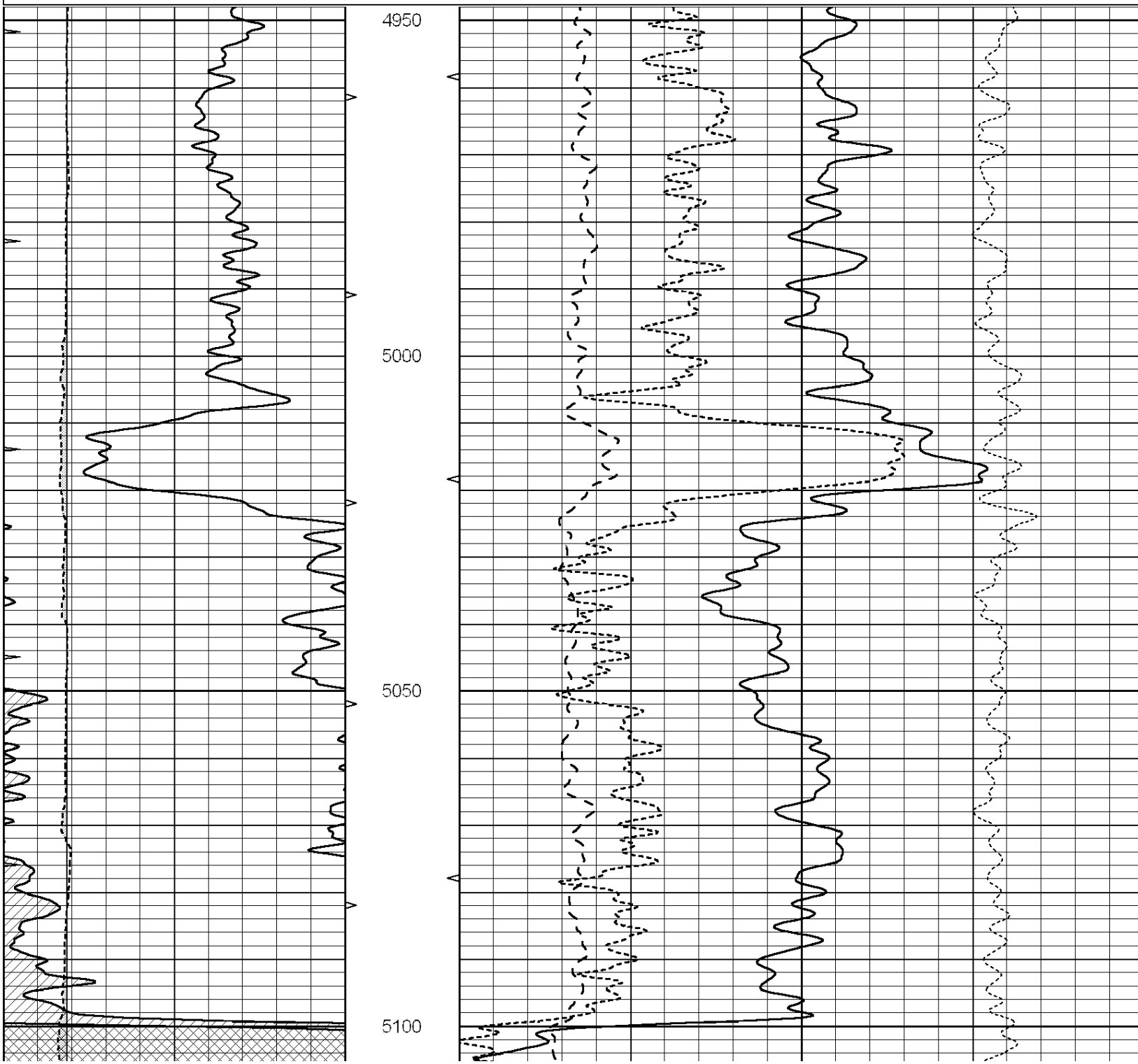
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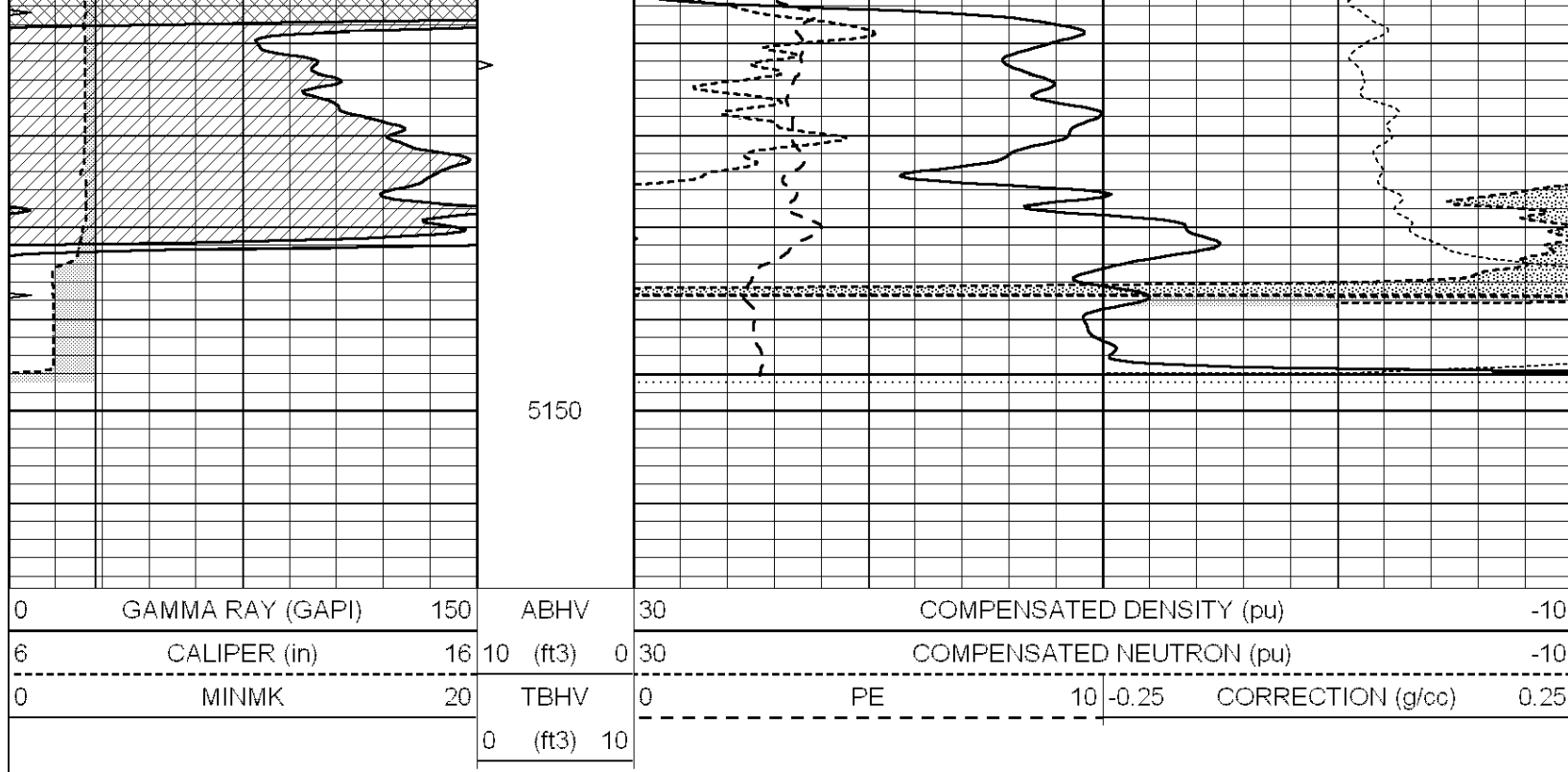
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REPEAT SECTION

Database File: 005639pdn.db
Dataset Pathname: pass2.2A
Presentation Format: ldt_neu
Dataset Creation: Tue Aug 10 16:15:08 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	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		





Calibration Report

Database File: 005639pdn.db
 Dataset Pathname: pass3.2A
 Dataset Creation: Tue Aug 10 16:08:07 2010 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Tue Aug 10 15:21:03 2010

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	510.000	-7.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	500.000	-10.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Litho Density Calibration Report

Serial: 002 Model: PRB
 Performed Tue Jul 03 11:12:28 2007

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1059.5	9172.0	2859.6	10210.6	cps
Window 2	976.0	7793.2	2486.1	8515.6	cps
Window 3	689.8	2930.5	1159.0	3096.2	cps
Window 4	231.9	237.2	231.1	234.0	cps
Long Space	0.0	6817.1	1510.1	7539.6	cps
Short Space	1.6	1758.1	1188.6	1898.8	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.4	Rib Slope	: 1.015	Density/Spine Ratio	: 0.569
Spine Angle	: 75.4	Spine Slope	: 3.850	Spine Intercept	: -19.9

Caliper	Readings	Reference			
Low Ref	2.8	8.8			
High Ref	4.8	14.0			
	Gain: 2.6			Offset: 1.7	
Compensated Neutron Calibration Report					
		Serial Number:		NEU_11	
		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:		GR5		
	Tool Model:		OPEN		
	Performed:		Tue Aug 10 13:45:11 2010		
	Calibrator Value:	1.0		GAPI	
	Background Reading:	0.0		cps	
	Calibrator Reading:	1.0		cps	
	Sensitivity:	0.6400		GAPI/cps	