



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company	LOTUS OPERATING CO. LLC.		
Well	CR WETZ #6		
Field	STRANATHAN		
County	BARBER	State	KANSAS
Location:	APL # : 15-007-23582-0000		Other Services DIL/MEL SONIC
Permanent Datum		GROUND LEVEL	Elevation
Log Measured From		KELLY BUSHING 9' A.G.L.	1417
Drilling Measured From		KELLY BUSHING	G.L. 1417
Date	8/18/10		
Run Number	ONE		
Depth Driller	5199		
Depth Logger	5198		
Bottom Logged Interval	5174		
Top Log Interval	3700		
Casing Driller	10 3/4"@280'		
Casing Logger	280		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5,000 PPM	
Density / Viscosity	9.4/58		
pH / Fluid Loss	10.0/9.6		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.620@100F		
Rmf @ Meas. Temp	.465@100F		
Rmc @ Meas. Temp	.744@100F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.488@127F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	6:45 P.M.		
Maximum Recorded Temperature	127F		
Equipment Number	0836		
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 JUNCTION) 17S. ON HWY 281 TO (MM#7) "DRIFTWOOD RD.",
1/4W., N. INTO @TANK BATTERY

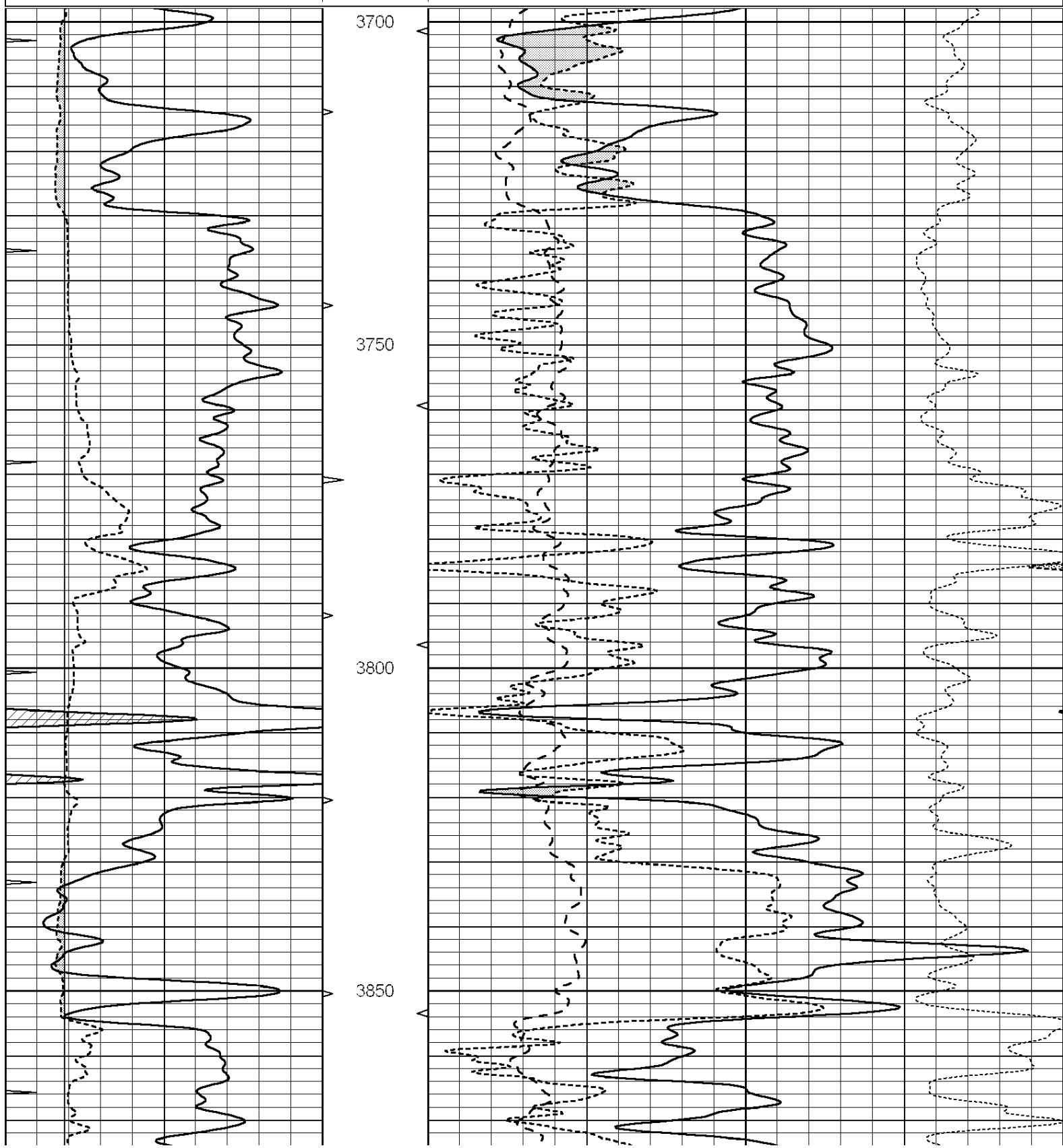


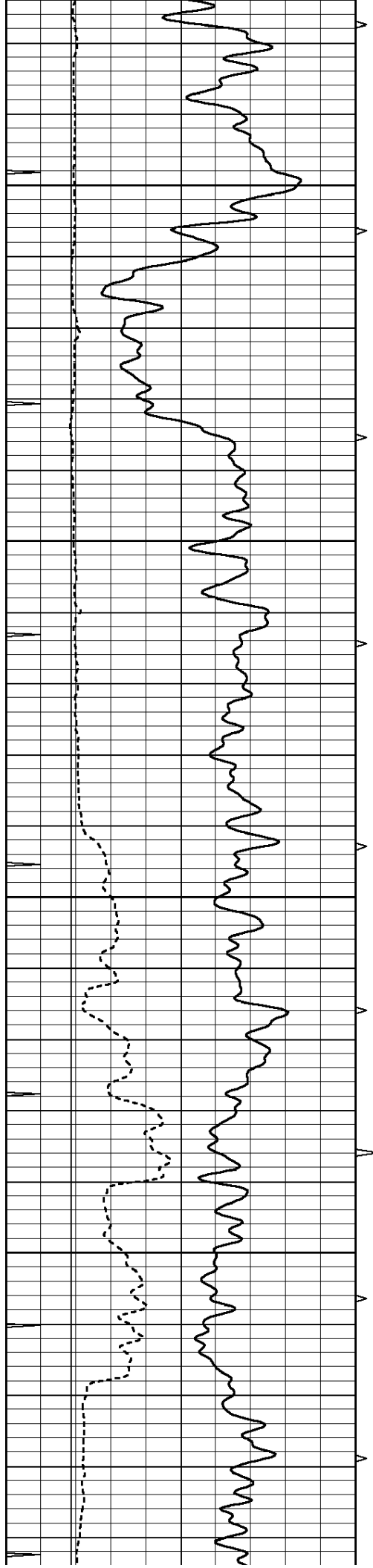
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MAIN SECTION

Database File: 005586pe.db
 Dataset Pathname: pass3.2
 Presentation Format: ldt_neu
 Dataset Creation: Wed Aug 18 19:49:25 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		



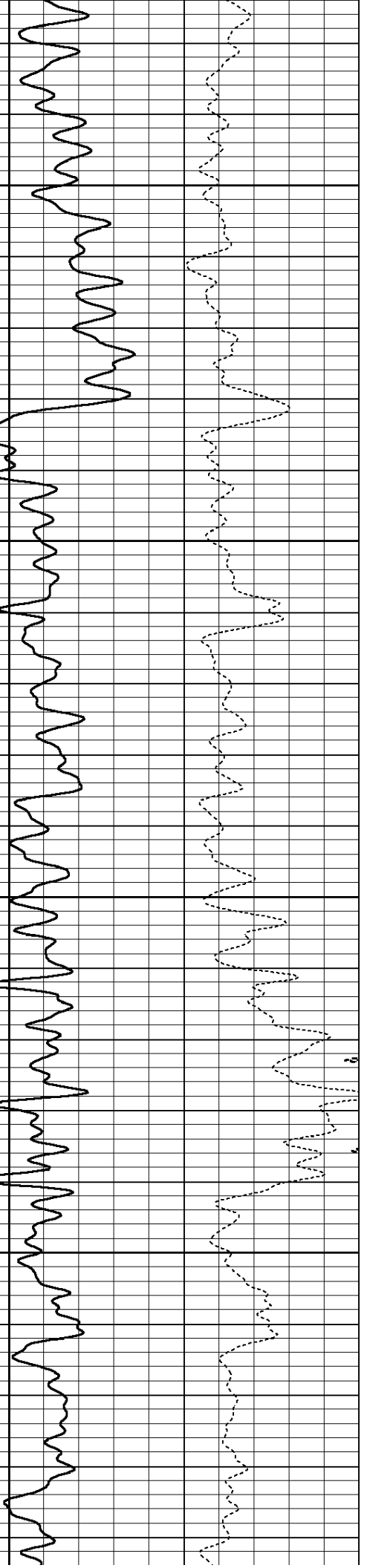
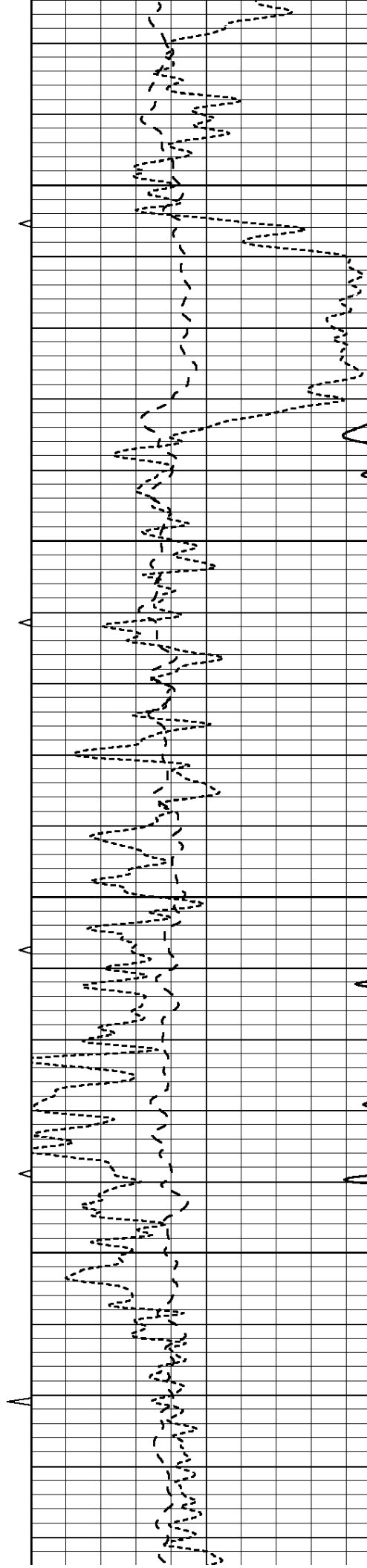


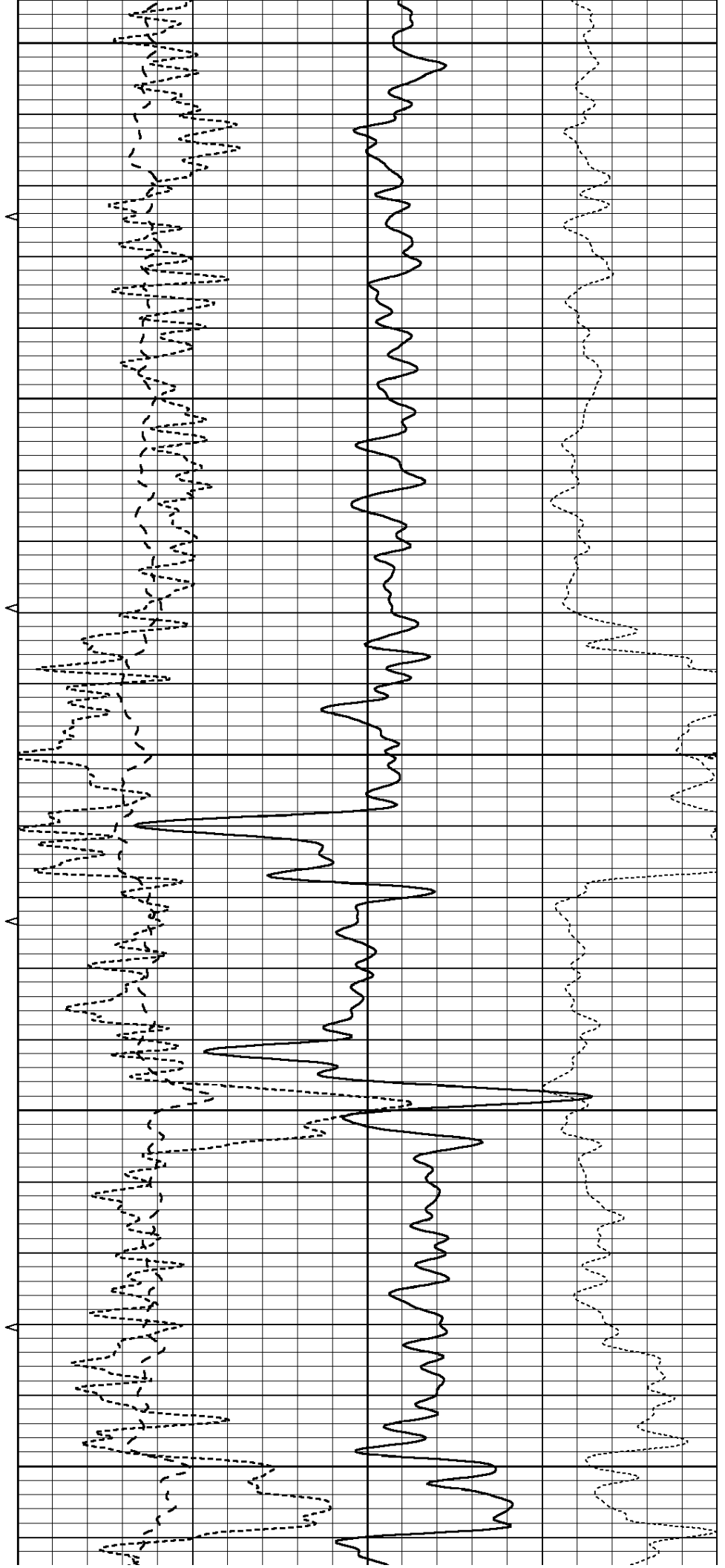
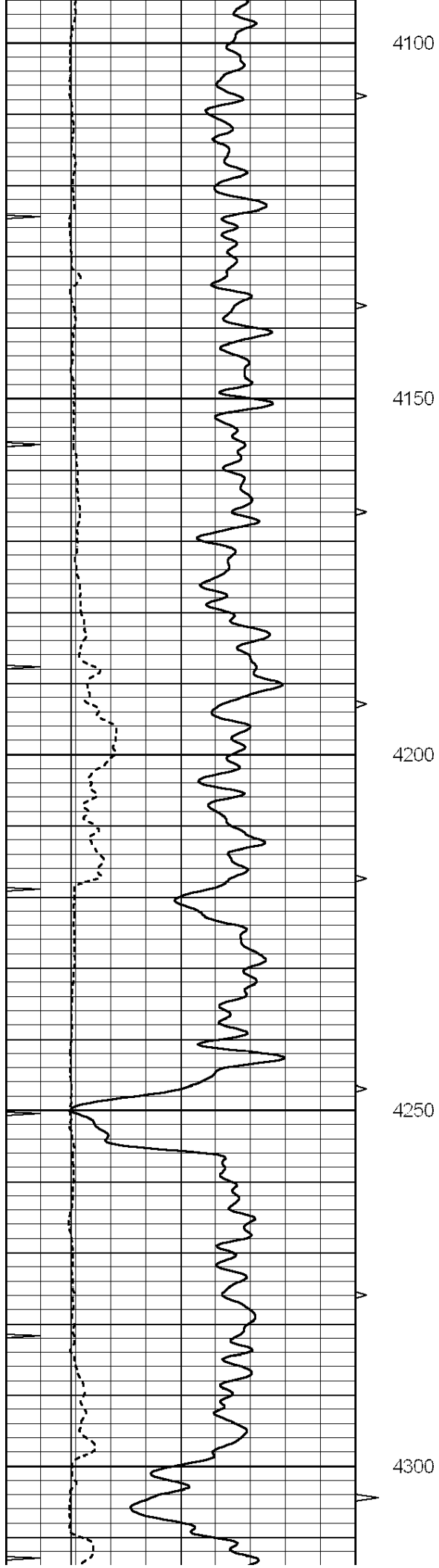
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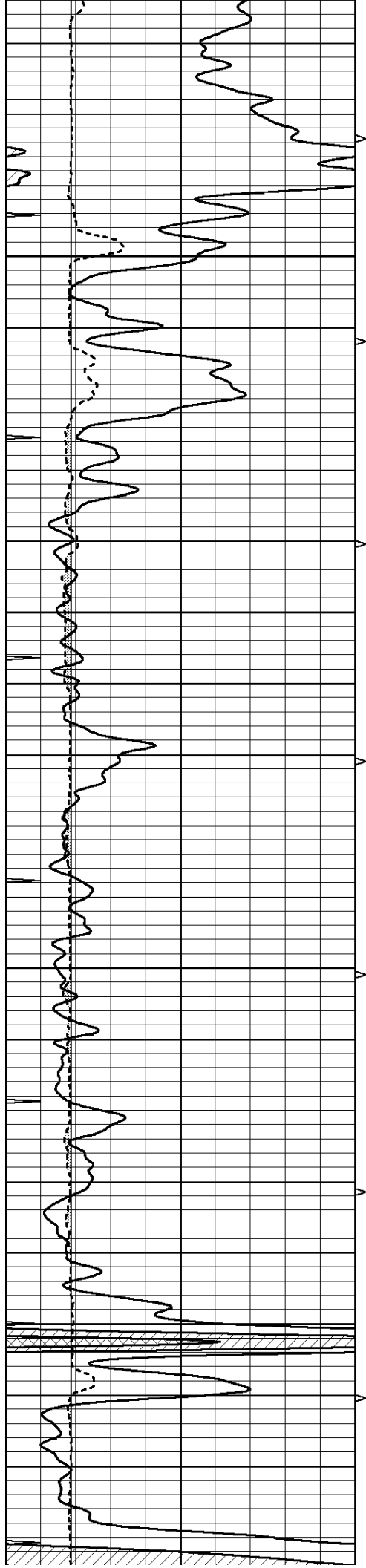
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4000

4050





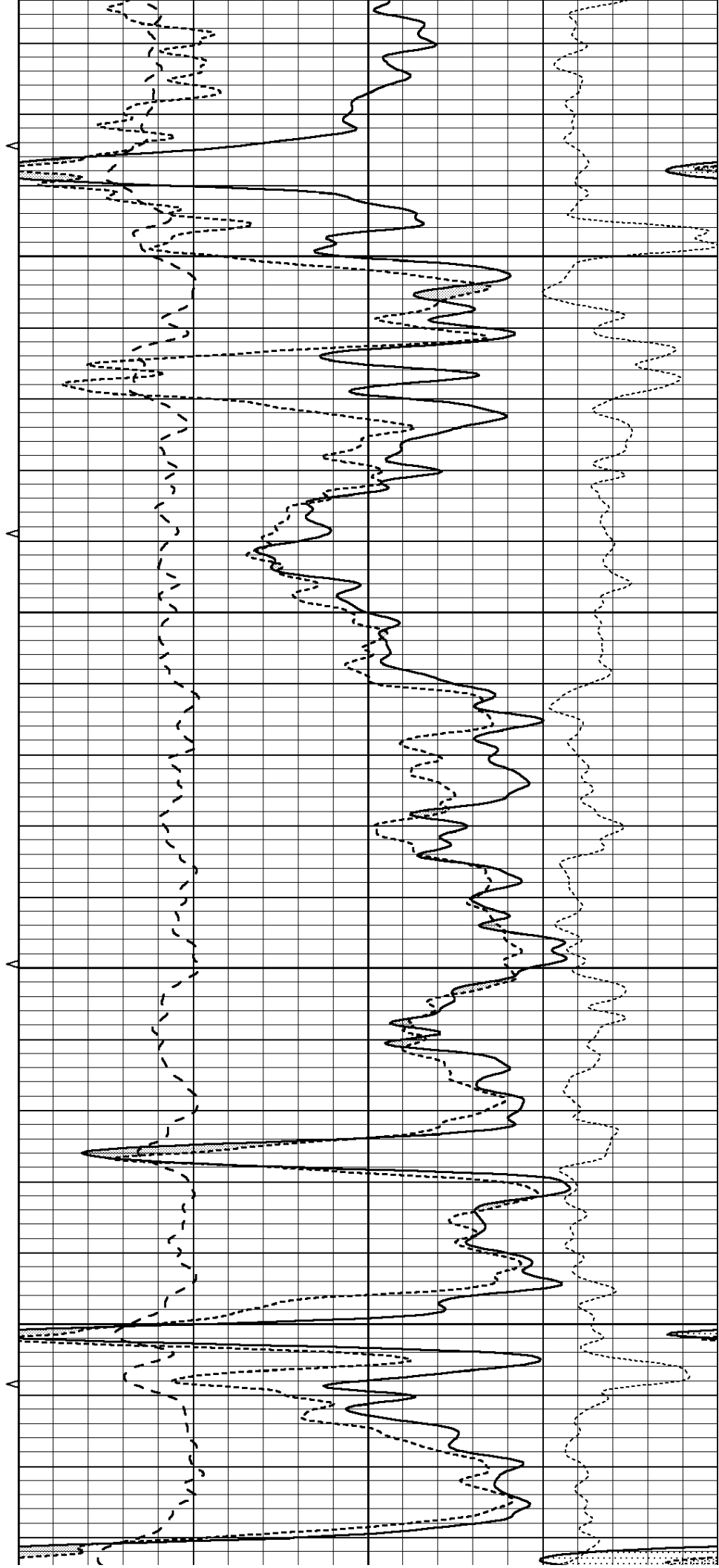


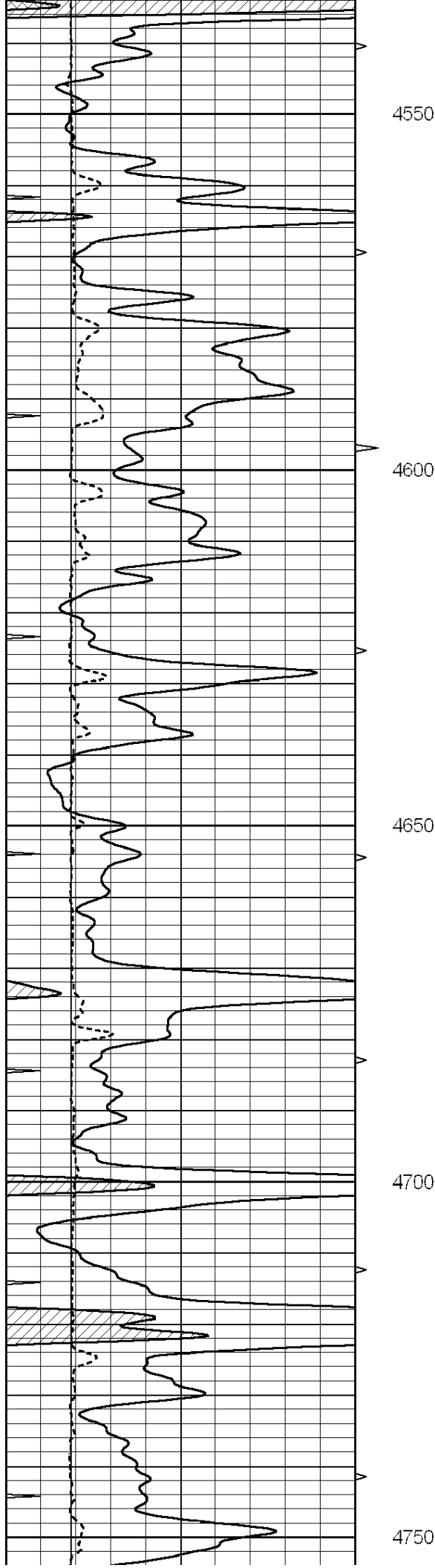
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4400

4450

4500





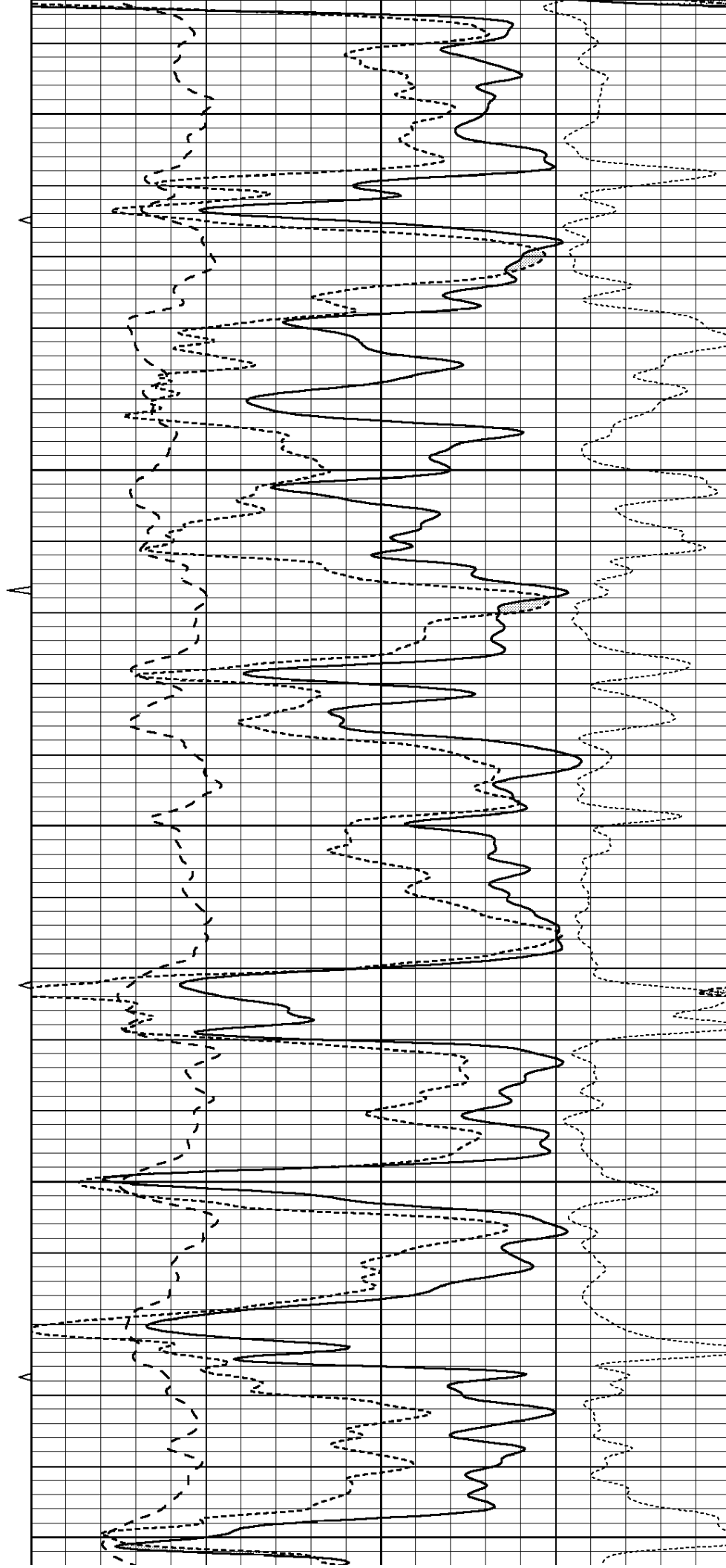
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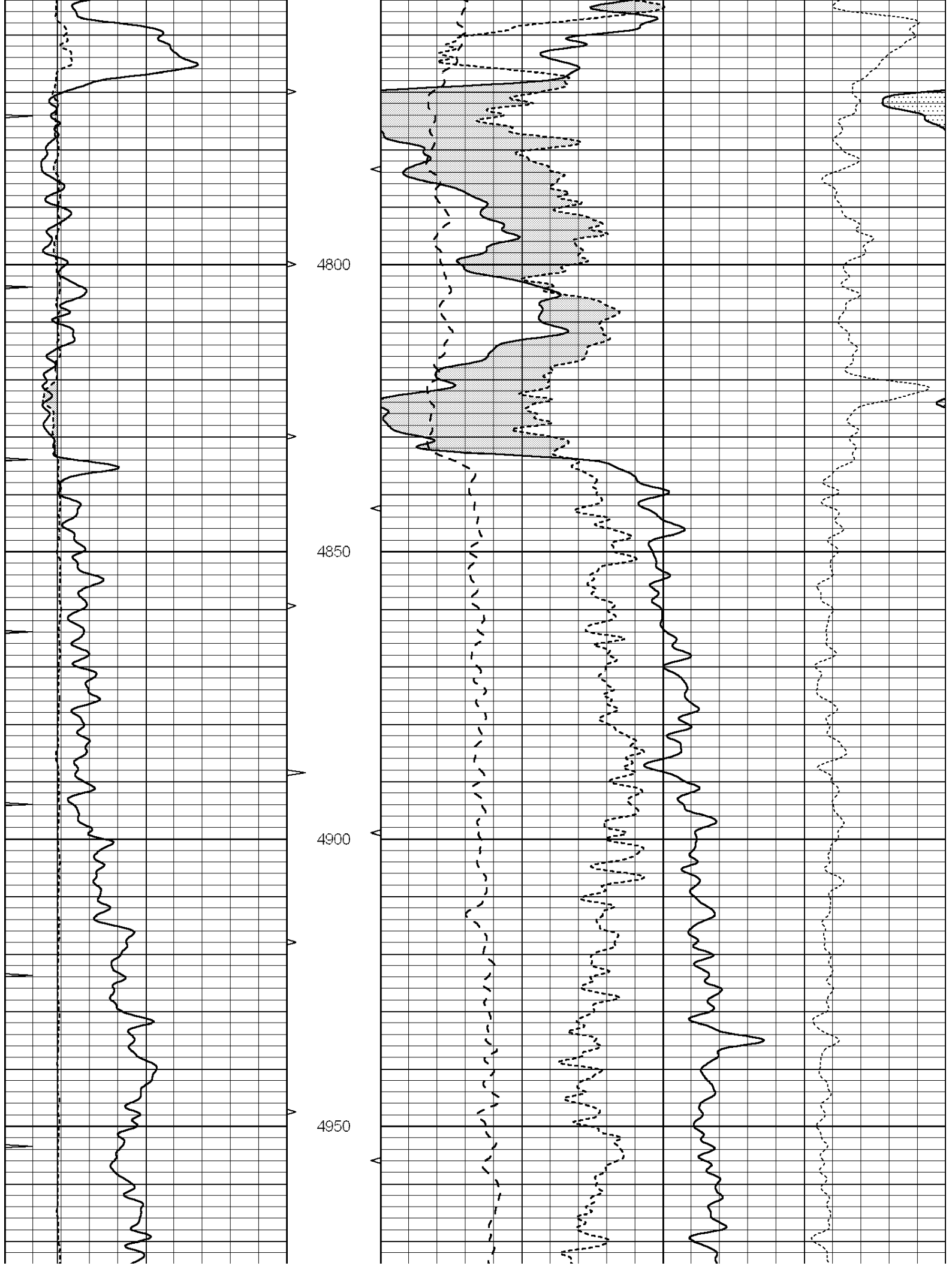
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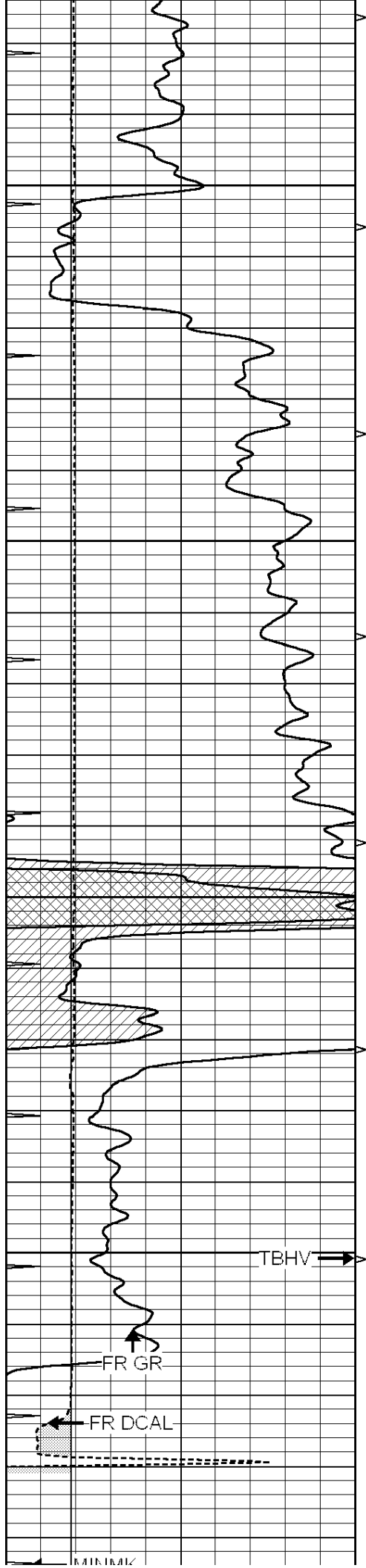
4650

4700

4750







5000

5050

5100

5.5" ABHV

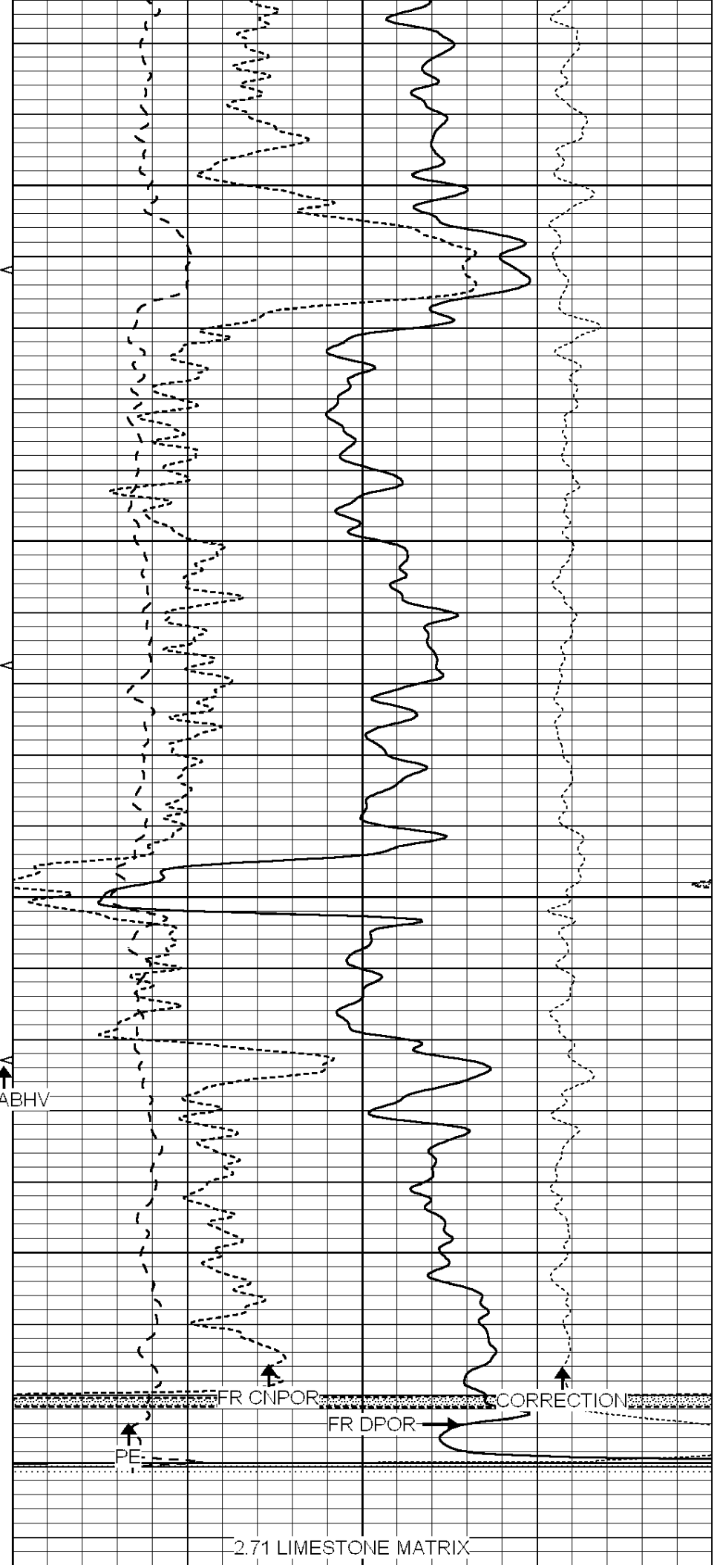
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TBHV

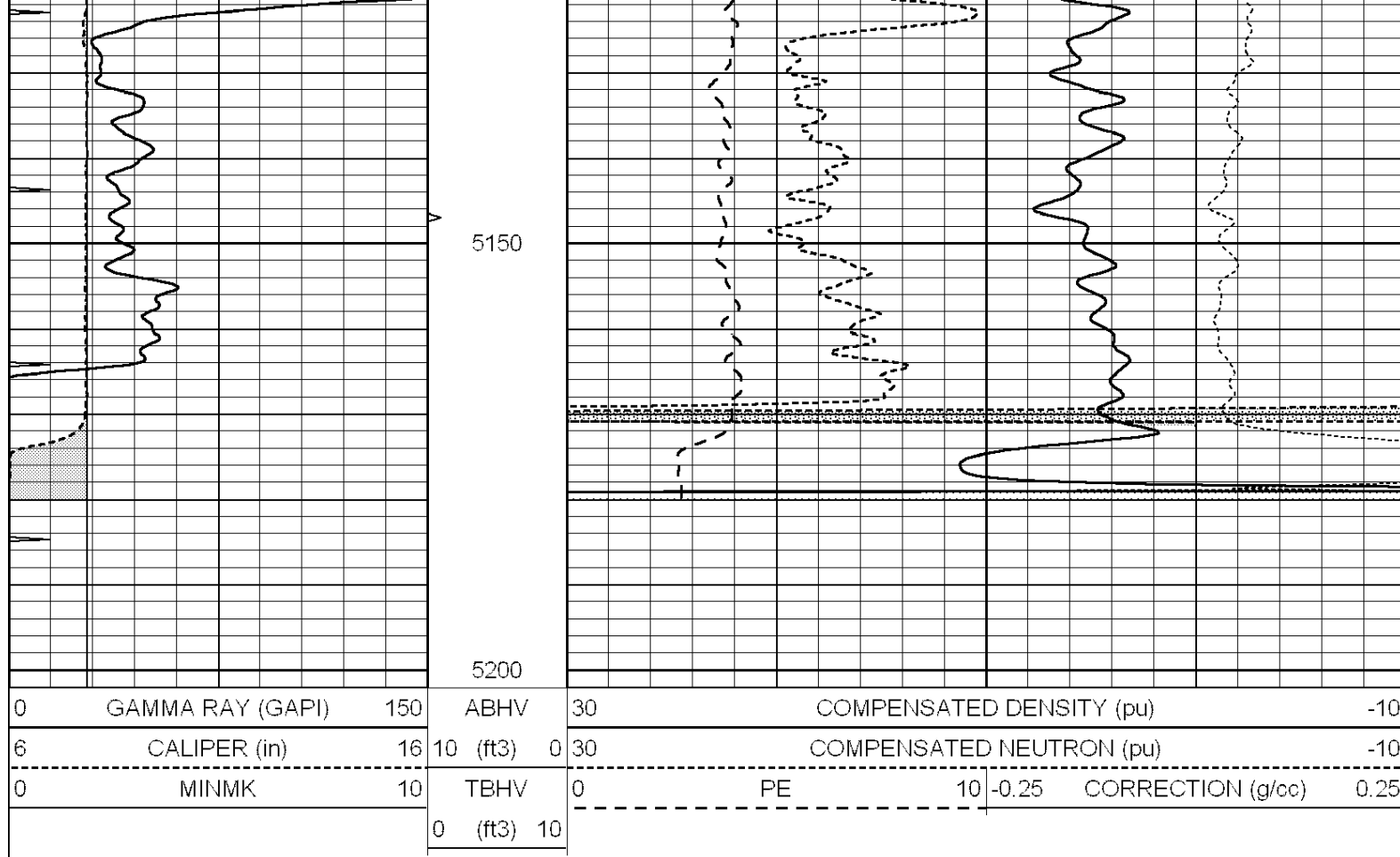
FR GR

FR DCAL

MINI



2.71 LIMESTONE MATRIX



Calibration Report

Database File: 005586pe.db
Dataset Pathname: pass3.2
Dataset Creation: Wed Aug 18 19:49:25 2010 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL6-GEAR
Performed: Wed Aug 18 15:46:00 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	-6.000
Medium	0.020	0.738	V	0.000	462.500	mmho/m	740.000	-26.000
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	0.0	1071.0	1100.1	1010.0	cps

Short Space	1.2	16/1.8	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 High Ref Readings 1.2 3.2 Gain: 3.7 Reference 6.7 14.0 Offset: 2.2					
Compensated Neutron Calibration Report					
Serial Number: NEU_4I Tool Model: G					
CALIBRATION Detector Short Space Long Space Readings 996.00 cps 977.00 cps Target 1000.00 cps 1000.00 cps Normalization 1.0000 1.0000					
Gamma Ray Calibration Report					
Serial Number: GR4 Tool Model: OPEN Performed: Wed Aug 18 18:32:57 2010 Calibrator Value: 200.0 GAPI Background Reading: 0.0 cps Calibrator Reading: 189.0 cps Sensitivity: 1.3500 GAPI/cps					