



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
LOG

Company MULL DRILLING COMPANY, INC.
Well #1-33 R - R UNIT
Field WILDCAT
County LANE
State KANSAS

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County LANE State KANSAS

Location: API # : 15-101-22184-0000
2150' FNL & 2578' FEL
SEC 33 TWP 17S RGE 28W
Permanent Datum GROUND LEVEL Elevation 2754
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL/MEL
SONIC
Elevation
K.B. 2763
D.F. 2761
G.L. 2754

Date	8/31/09		
Run Number	CNE		
Depth Driller	4680		
Depth Logger	4684		
Bottom Logged Interval	4660		
Top Log Interval	3700		
Casing Driller	8 5/8"@223'		
Casing Logger	223		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,000 PPM	
Density / Viscosity	9.4/65		
pH / Fluid Loss	10.0/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.40@85F		
Rmf @ Meas. Temp	1.05@85F		
Rmc @ Meas. Temp	1.68@85F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.975@122F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	8:45 P.M.		
Maximum Recorded Temperature	122F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEVIN KESSLER		

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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
DIGHTON, KS. 4 N. ON HWY 23 TO RD. "190", 2 1/2 E., S. INTO

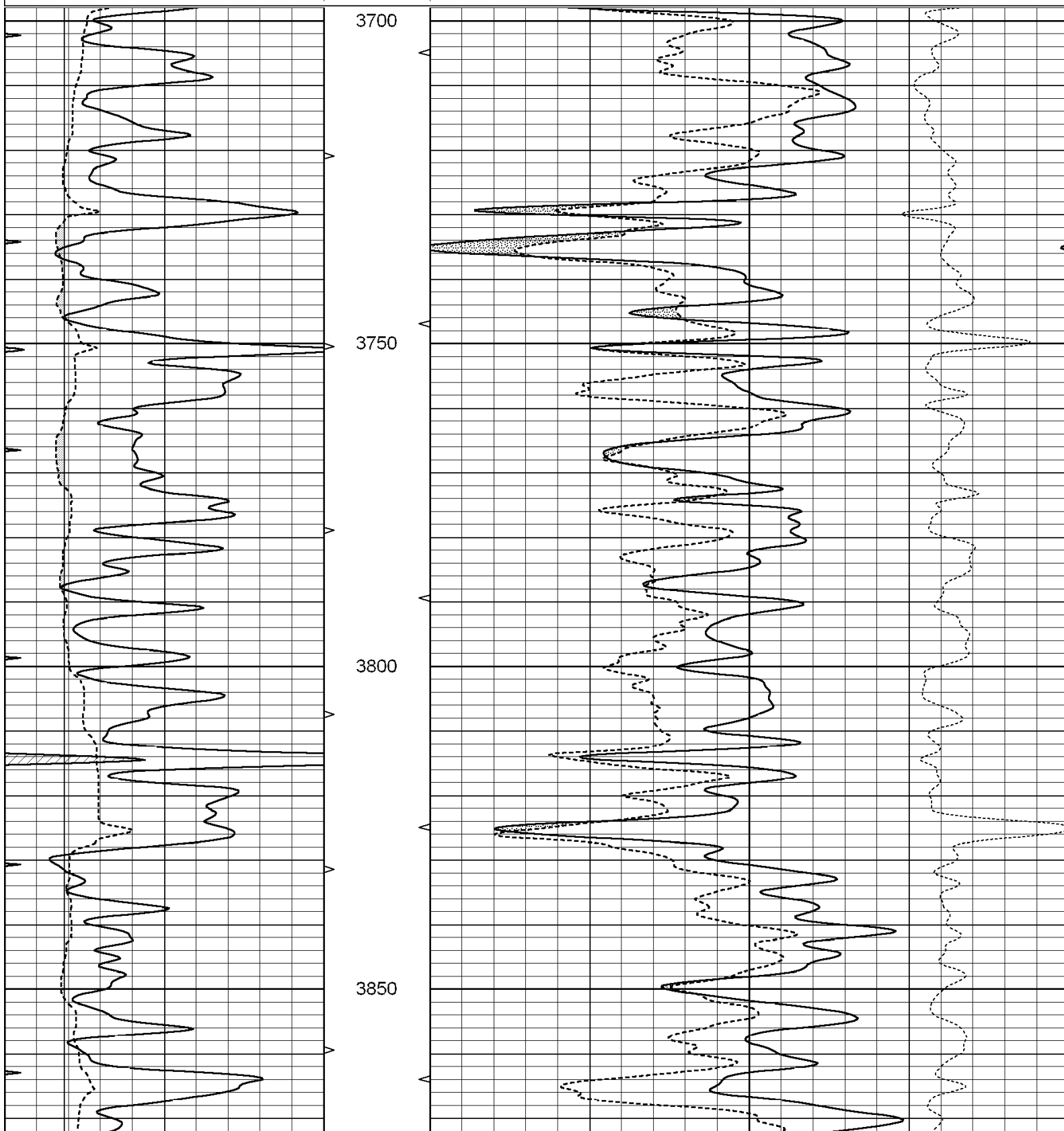


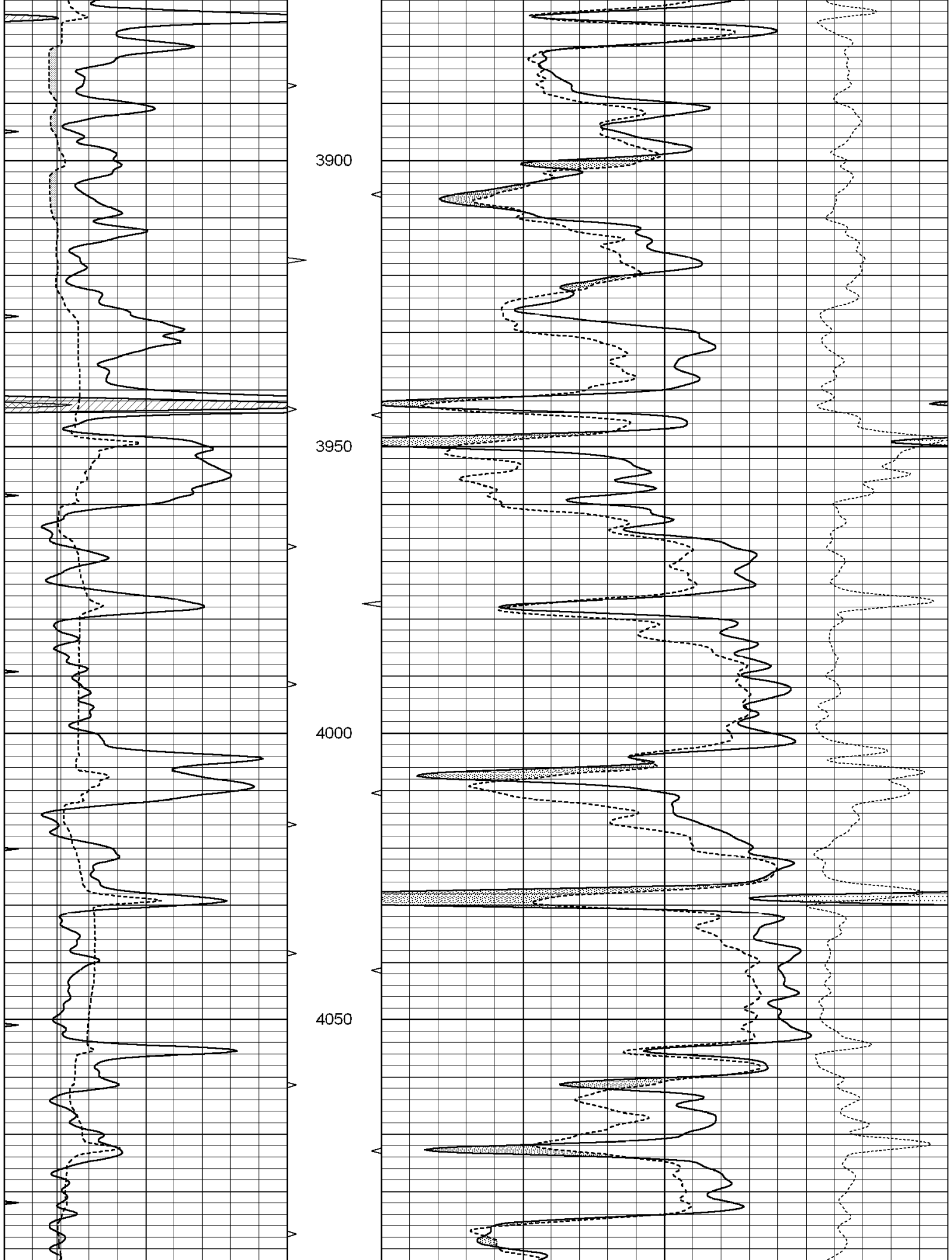
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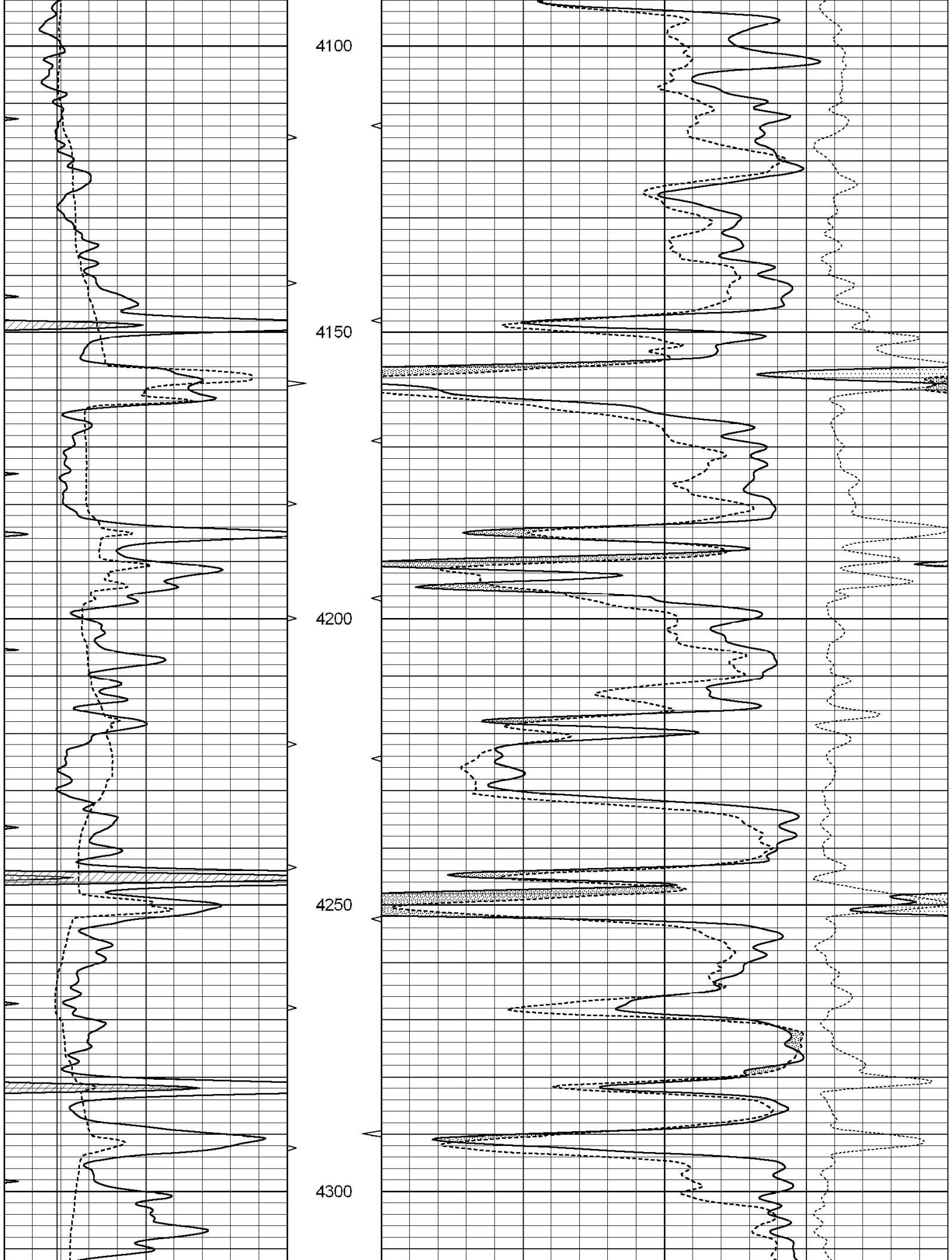
MAIN SECTION

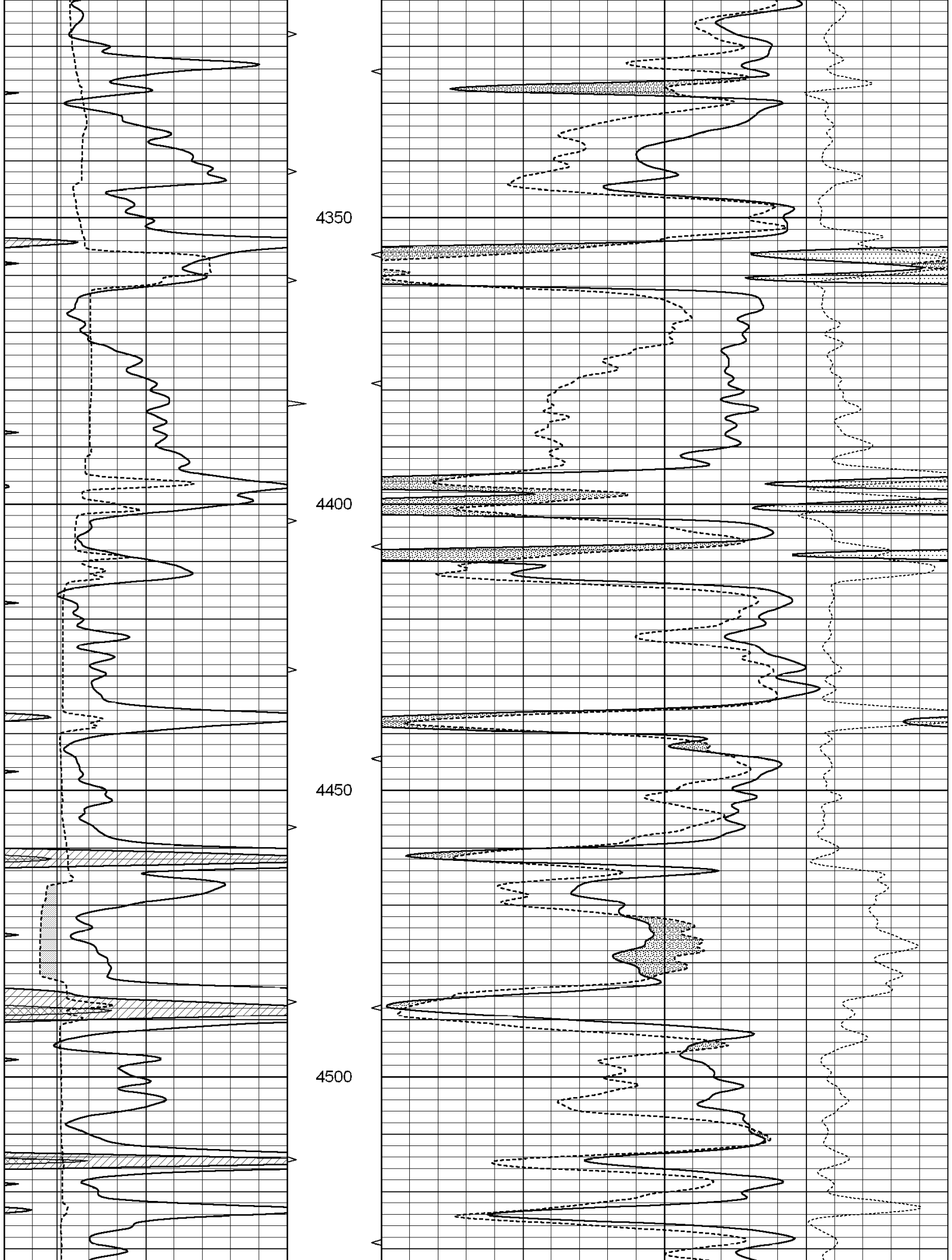
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Dataset Pathname: pass4.6
Presentation Format: den_neu
Dataset Creation: Mon Aug 31 22:08:44 2009 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

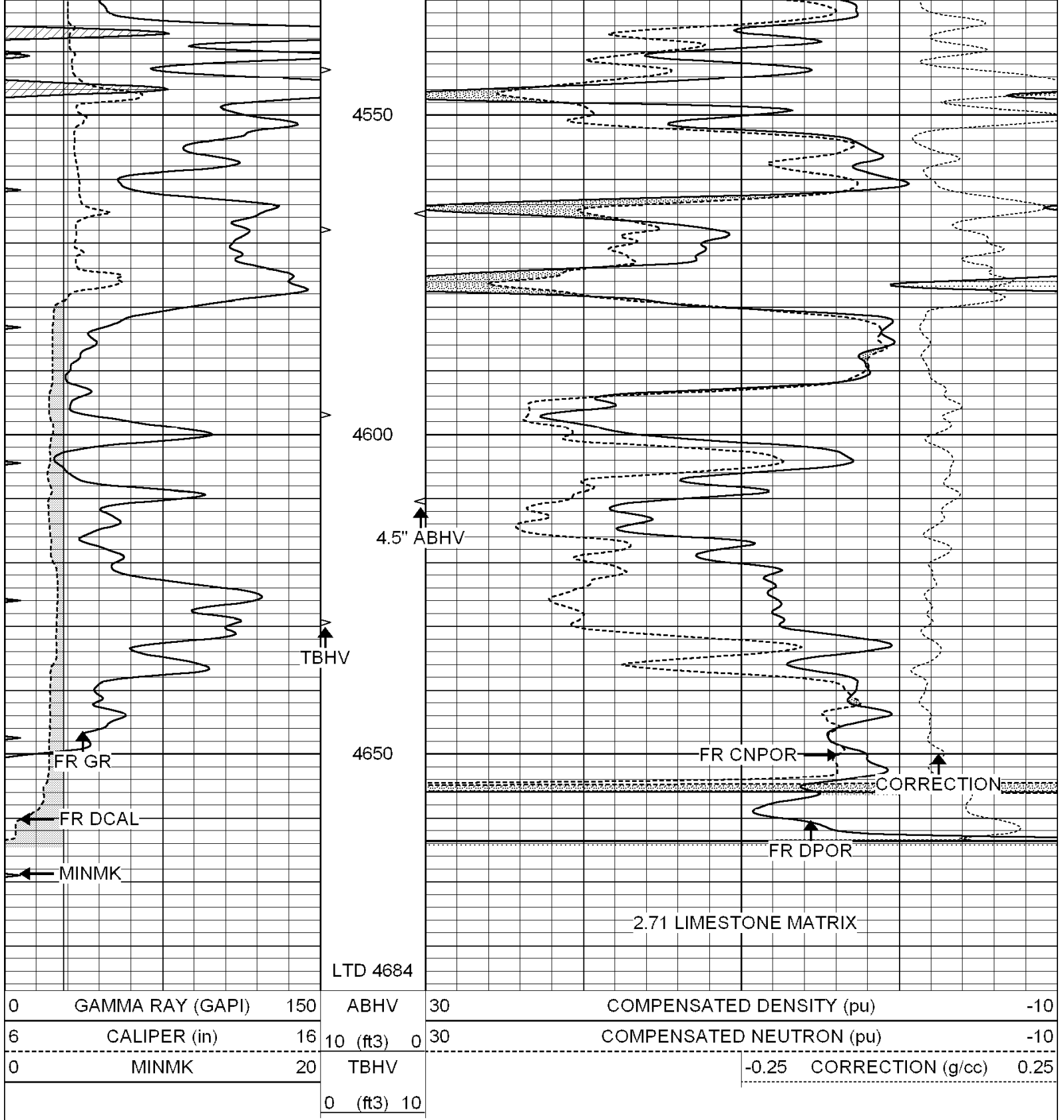
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			









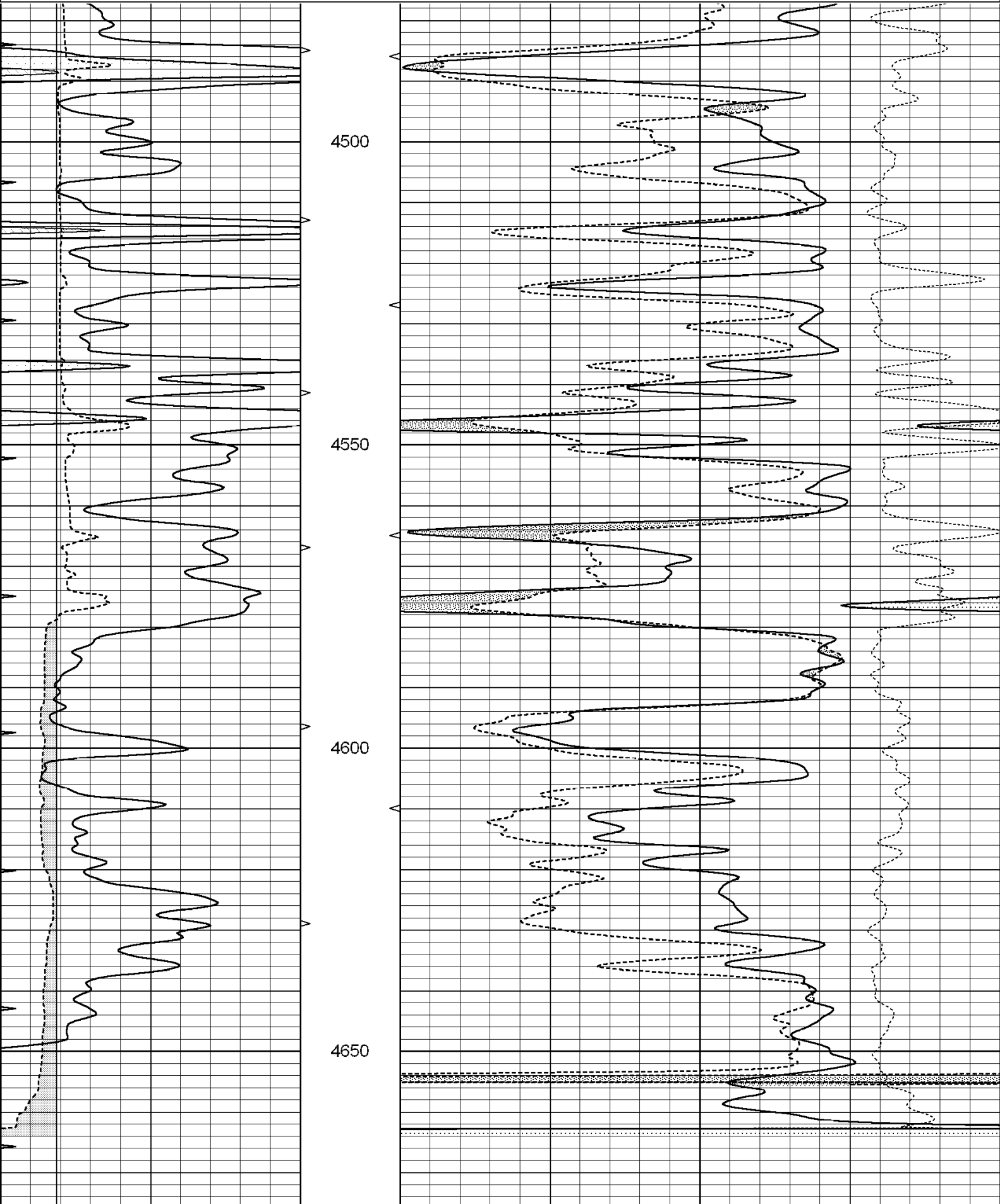


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REPEAT SECTION

Database File: 004062pe.db
 Dataset Pathname: pass3.7
 Presentation Format: den_neu
 Dataset Creation: Mon Aug 31 21:48:08 2009 by Calc Open-Cased 060407
 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		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			



CALIBRATION			
Detector	Readings	Target	Normalization

Detector	Readings		Target		Normalization
Short Space	997.00	cps	1000.00	cps	1.0000
Long Space	986.00	cps	1000.00	cps	1.0000
Gamma Ray Calibration Report					
Serial Number:	GR3				
Tool Model:	OPEN				
Performed:	Mon Aug 31 20:56:19 2009				
Calibrator Value:	200.0	GAPI			
Background Reading:	3.0	cps			
Calibrator Reading:	186.0	cps			
Sensitivity:	0.5000	GAPI/cps			