



**SUPERIOR
Hays,
Kansas**

**COMPENSATED
DENSITY
NEUTRON LOG**

Company MULL DRILLING COMPANY, INC.
Well #1-32 MURPHY-SCHROEDER UNIT
Field
County THOMAS
State KANSAS

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Location: API #: 15-193-20767
2595' FWL & 335' FSL
SEC 32 TWP 8S RGE 31W
Permanent Datum GROUND LEVEL Elevation 3033
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL
SONIC/MEL
Elevation
K.B. 3038
D.F.
G.L. 3033

Date	7-31-09
Run Number	ONE
Depth Driller	4700
Depth Logger	4698
Bottom Logged Interval	4674
Top Log Interval	3700
Casing Driller	312
Casing Logger	NA
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.3 / 54
pH / Fluid Loss	8.5 / 8.8
Source of Sample	FLOWLINE
Rim @ Meas. Temp	1.20 @ 90F
Rmf @ Meas. Temp	0.90 @ 90F
Rmc @ Meas. Temp	1.44 @ 90F
Source of Rmf / Rmc	MEASURED
Rm @ BHT	.890 @ 122F
Time Circulation Stopped	3 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	122F
Equipment Number	860
Location	HAYS, KS.
Recorded By	RUPP
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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: OAKLEY, TO WEST EXIT, 9N TO RD. "M", 3E, N INTO.

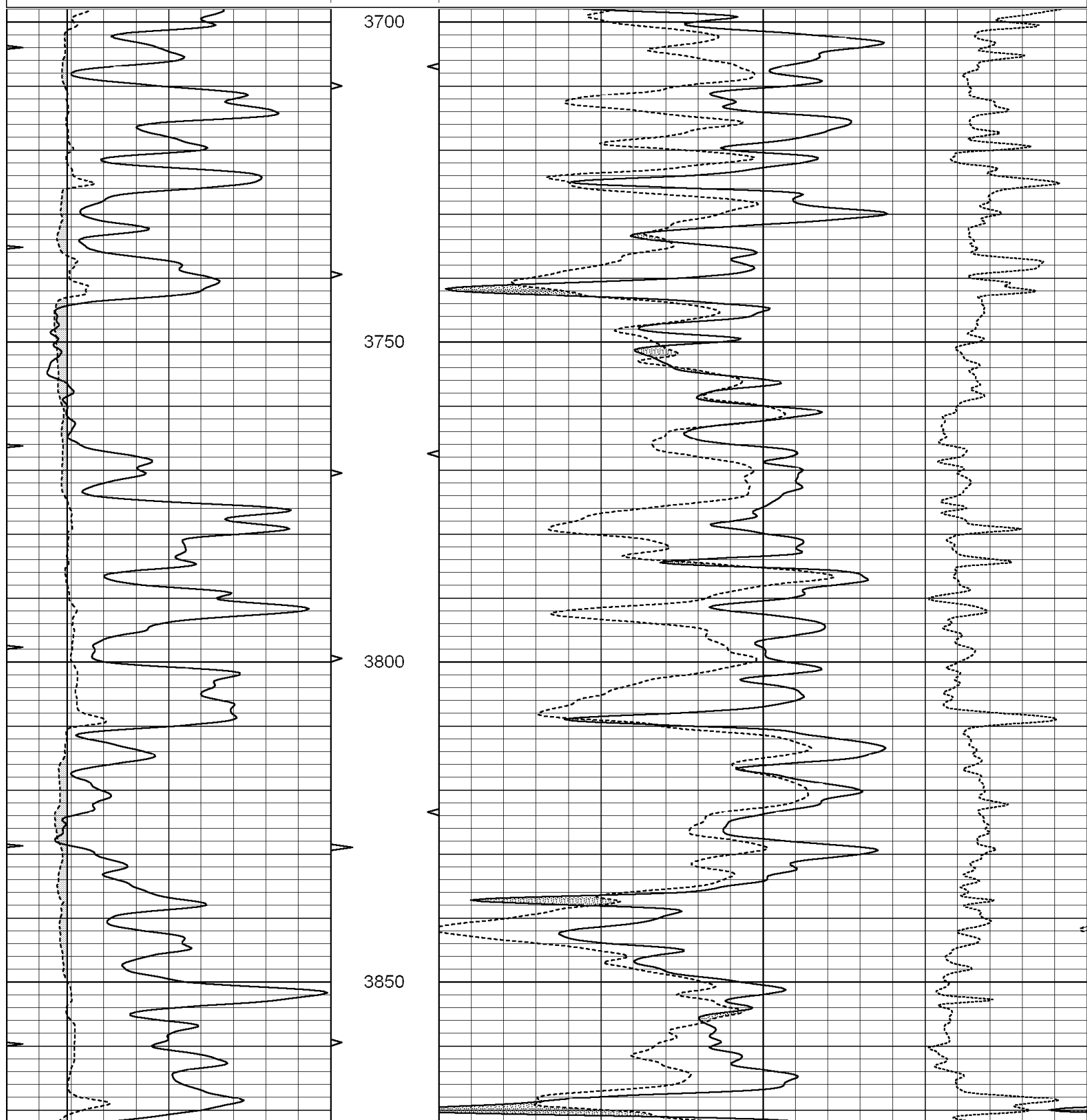


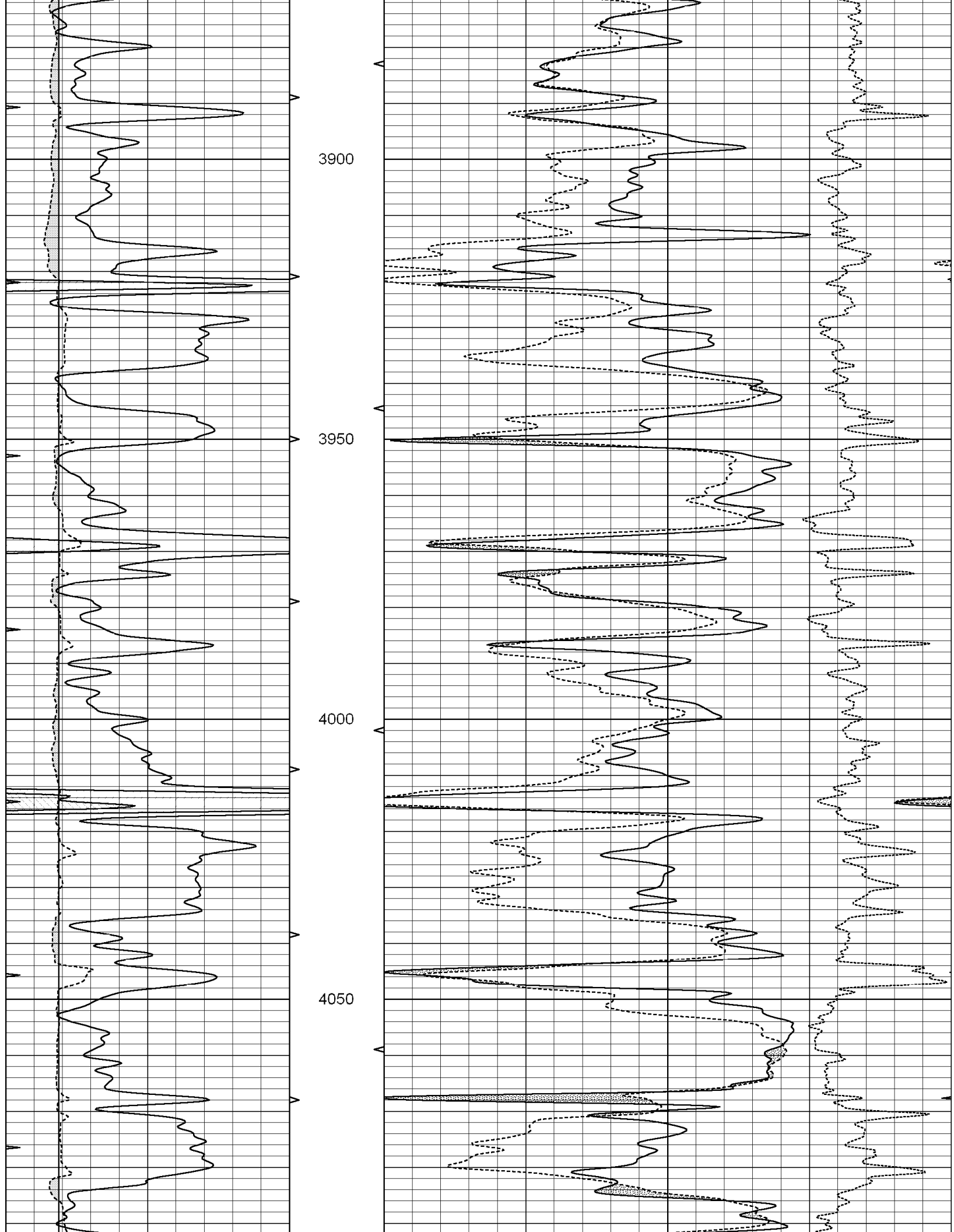
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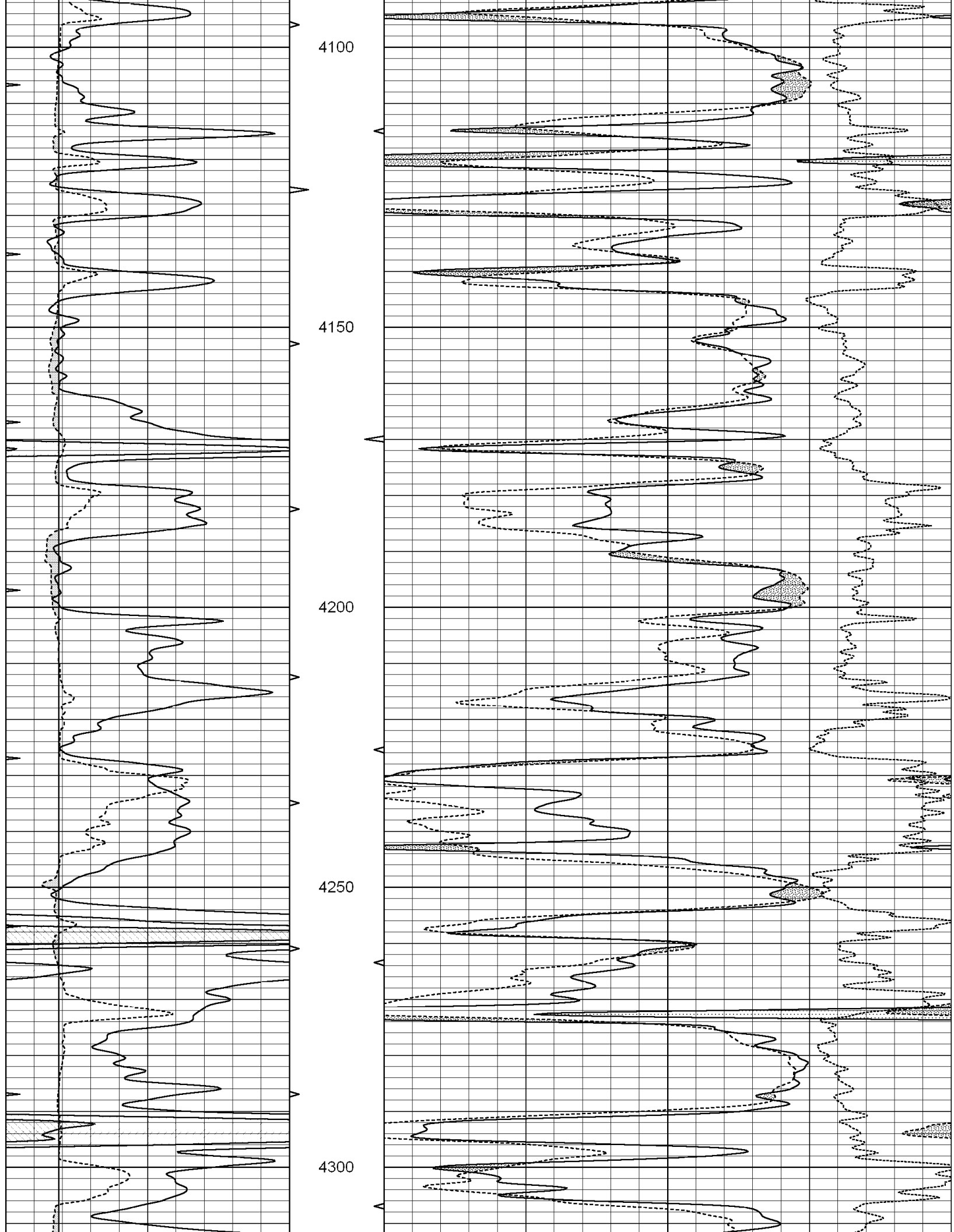
MAIN SECTION

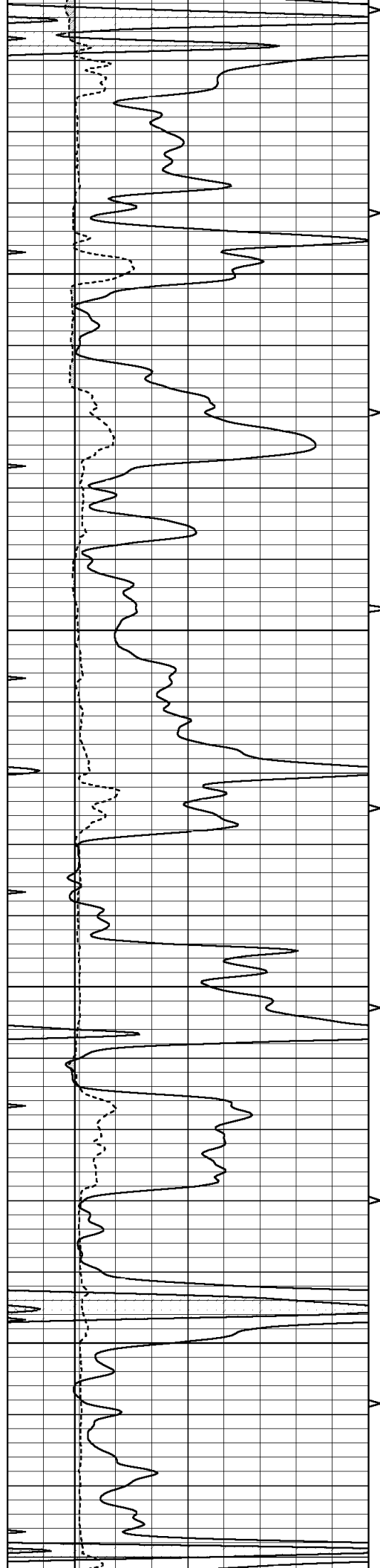
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 Dataset Pathname: pass6.1A
 Presentation Format: den_neu
 Dataset Creation: Fri Jul 31 08:54:01 2009
 Charted by: Depth in Feet scaled 1:240

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			







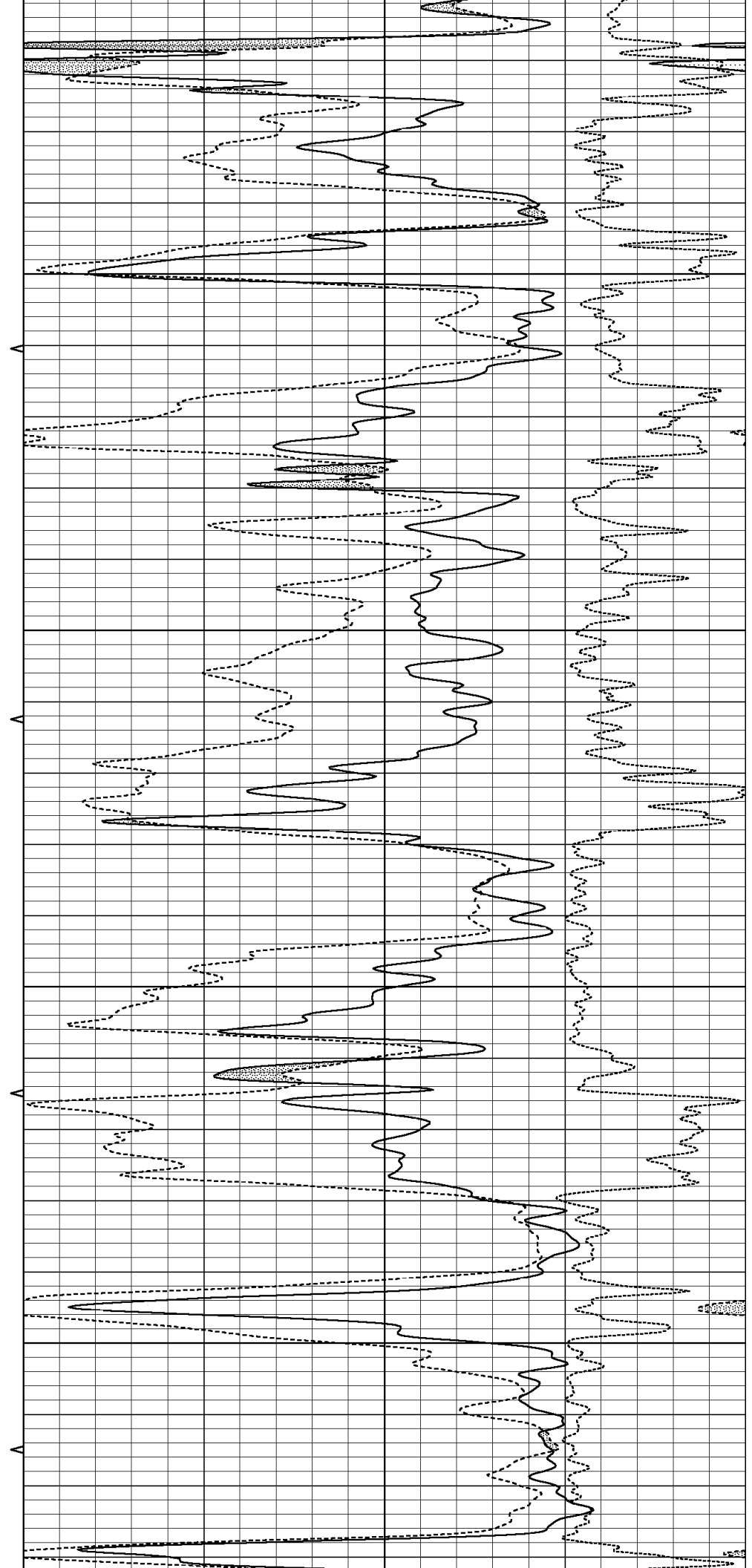


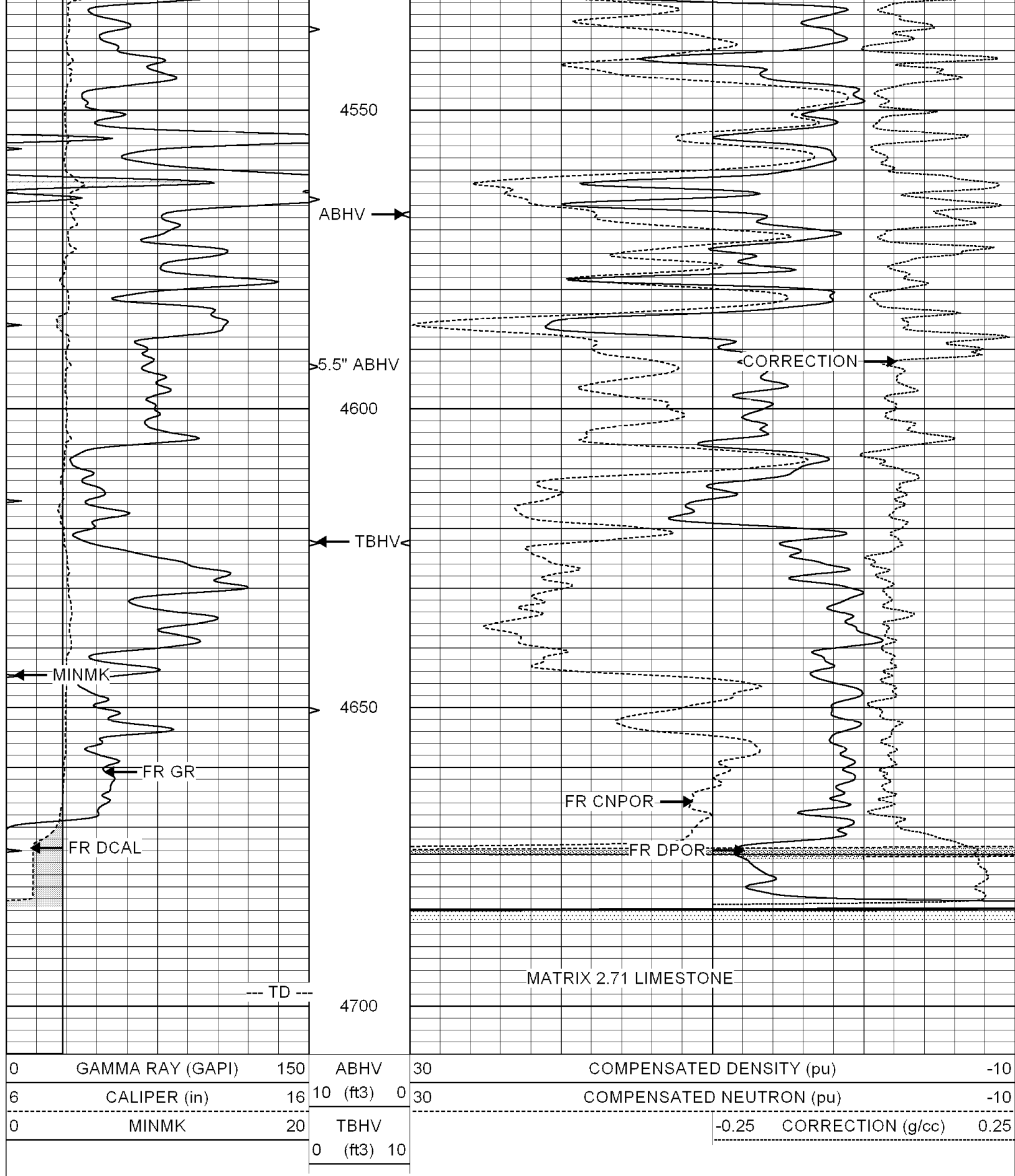
4350

4400

4450

4500



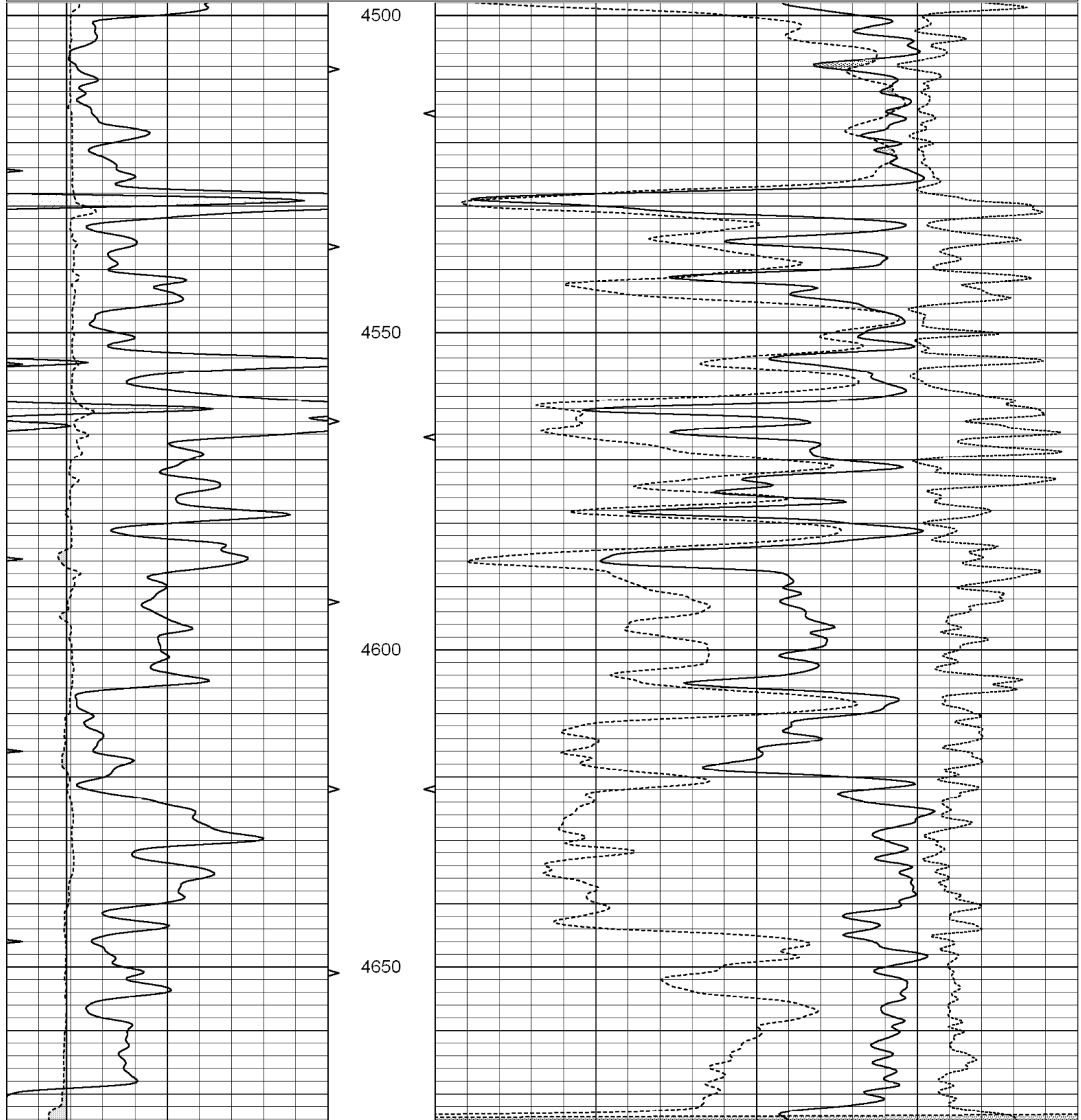


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REPEAT SECTION

Database File: 000712ddn.db
 Dataset Pathname: pass5.2
 Presentation Format: den_neu
 Dataset Creation: Fri Jul 31 07:51:02 2009 by Calc Open-Cased 051020
 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			



Short Space
Long Space

1.00
1.00

cps
cps

1.00
1.00

cps
cps

1.0000
1.0000

Gamma Ray Calibration Report

Serial Number: GR5
Tool Model: OPEN
Performed: Fri Jul 31 06:50:30 2009

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5300 GAPI/cps