



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company MAI OIL OPERATIONS, INC.
Well DIREEN - WAGNER UNIT #1
Field CARROLL
County BARTON
State KANSAS

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Location: API # : 15-009-25751-0000
1400' FNL & 2580' FEL
NW - NW - SW - NE
SEC 29 TWP 17S RGE 14W
Permanent Datum GROUND LEVEL Elevation 1864
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services DILMEL
Elevation
K.B. 1872
D.F. 1870
G.L. 1864

Date	10/3/12		
Run Number	ONE		
Depth Driller	3451		
Depth Logger	3450		
Bottom Logged Interval	3426		
Top Log Interval	2700		
Casing Driller	8 5/8"@850'		
Casing Logger	850		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 7,900 PPM	
Density / Viscosity	9.3/52		
pH / Fluid Loss	9.0/10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.850@80F		
Rmt @ Meas. Temp	.636@80F		
Rmc @ Meas. Temp	1.02@80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.613@111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	1:15 A.M.		
Maximum Recorded Temperature	111F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JIM MUSGROVE		

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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

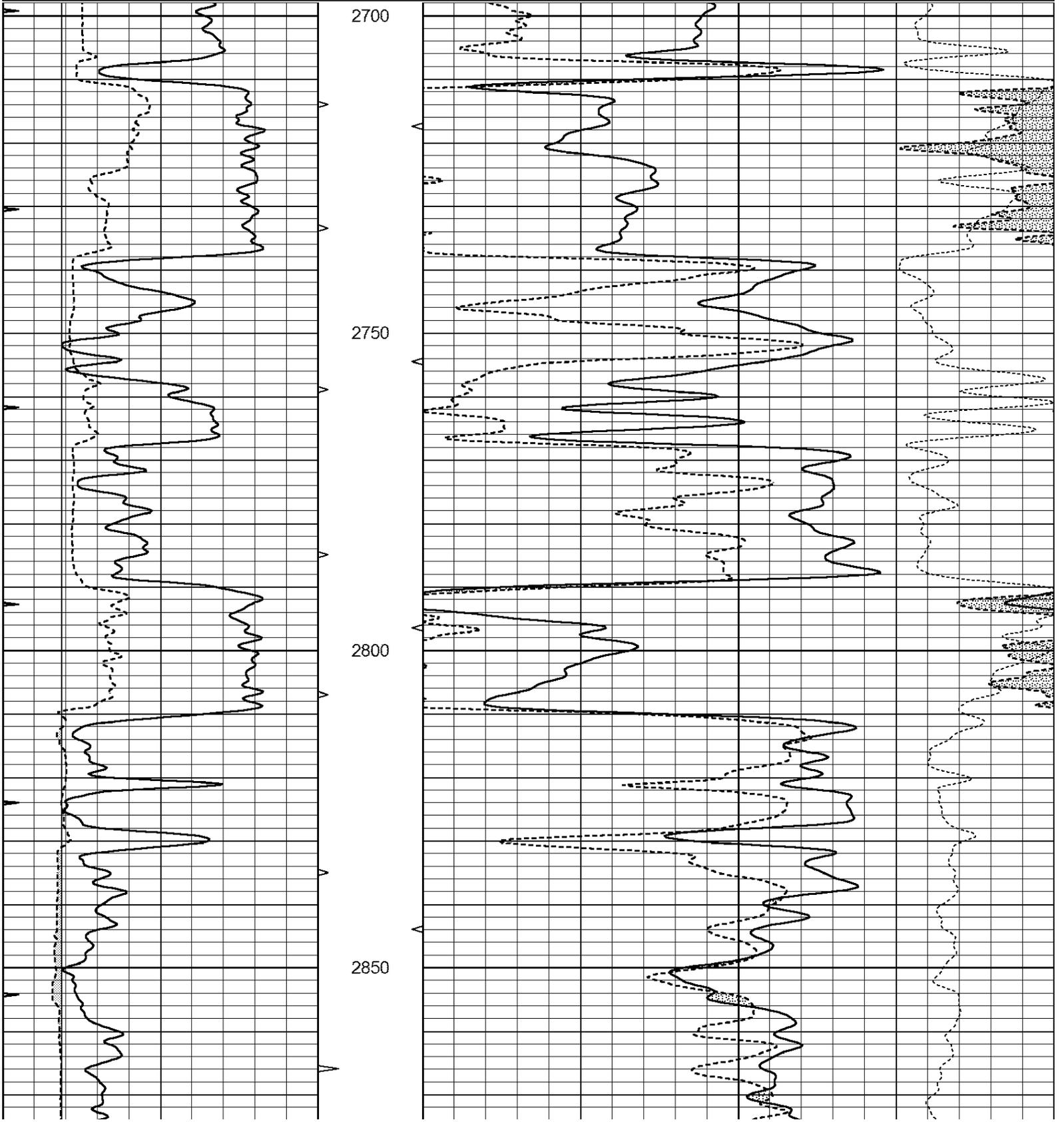
THANK YOU FOR USING "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
W. OF HOISINGTON, KS. (HWY 281 & 4) 3W. ON HWY 4, 1N., 1/2E., 1/4S., E. SIDE OF RD.

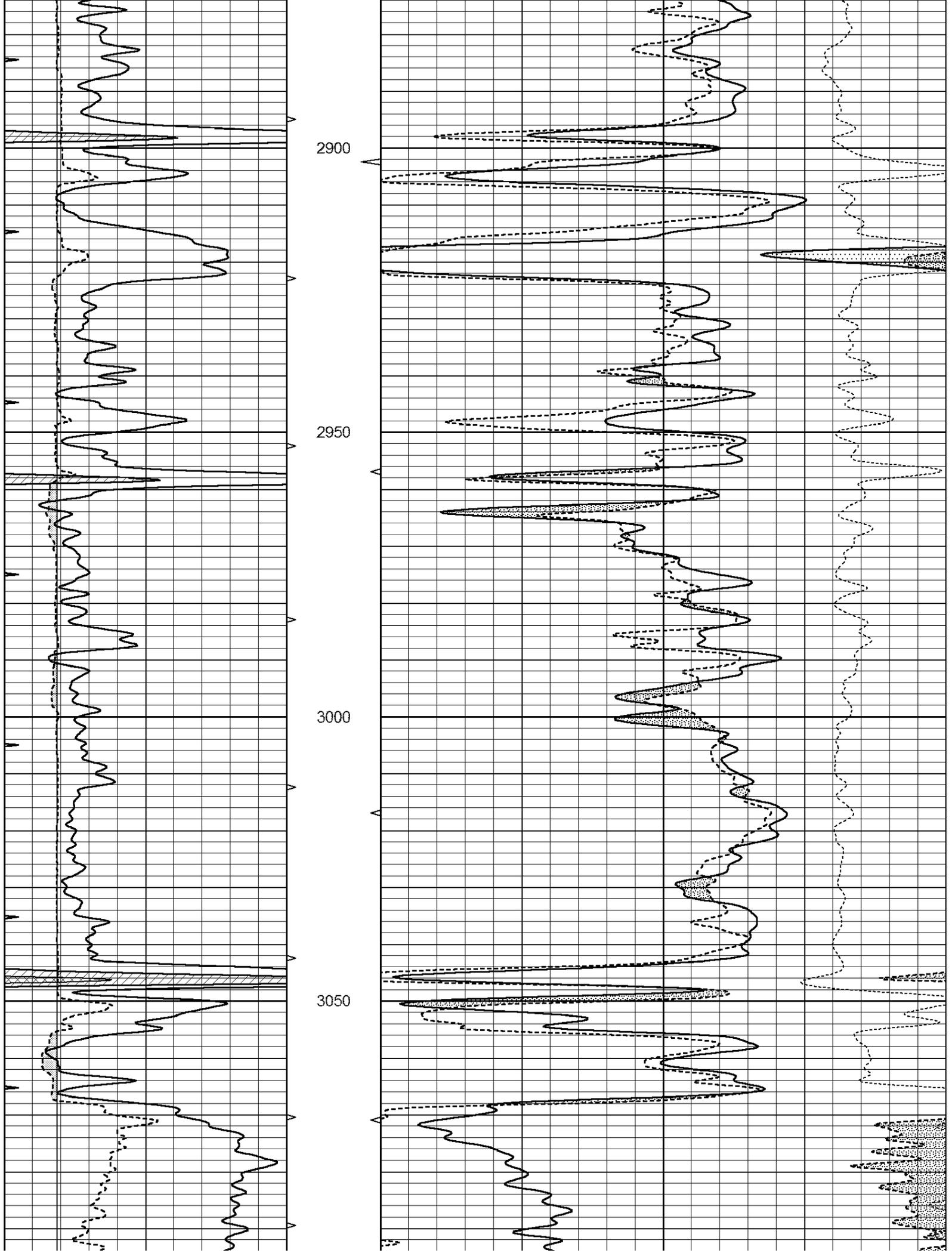


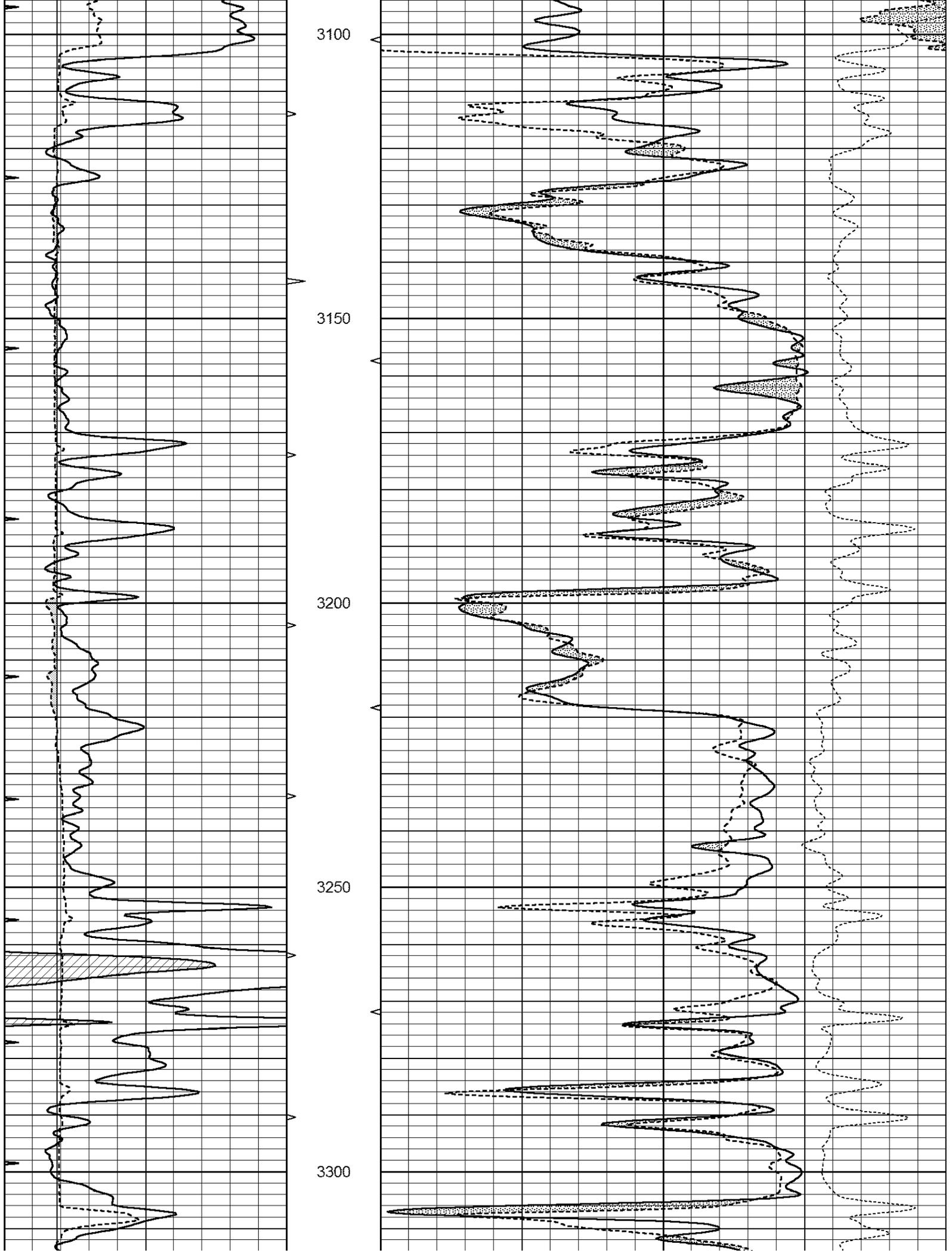
MAIN SECTION

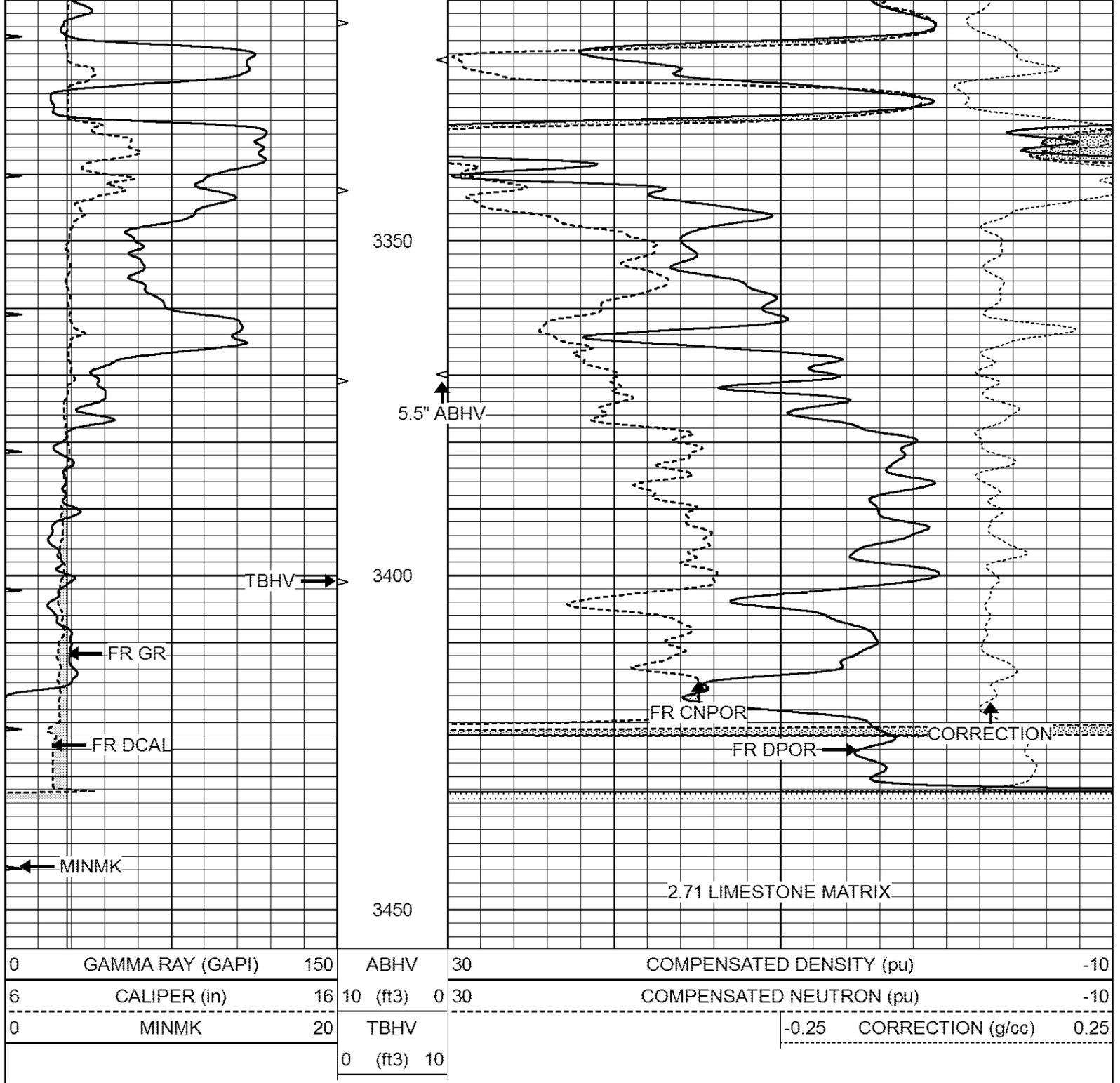
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 Dataset Pathname: pass3.3
 Presentation Format: den_neu
 Dataset Creation: Wed Oct 03 02:25:49 2012 by Calc Open-Cased 110302
 Charted by: Depth in Feet scaled 1:240

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		







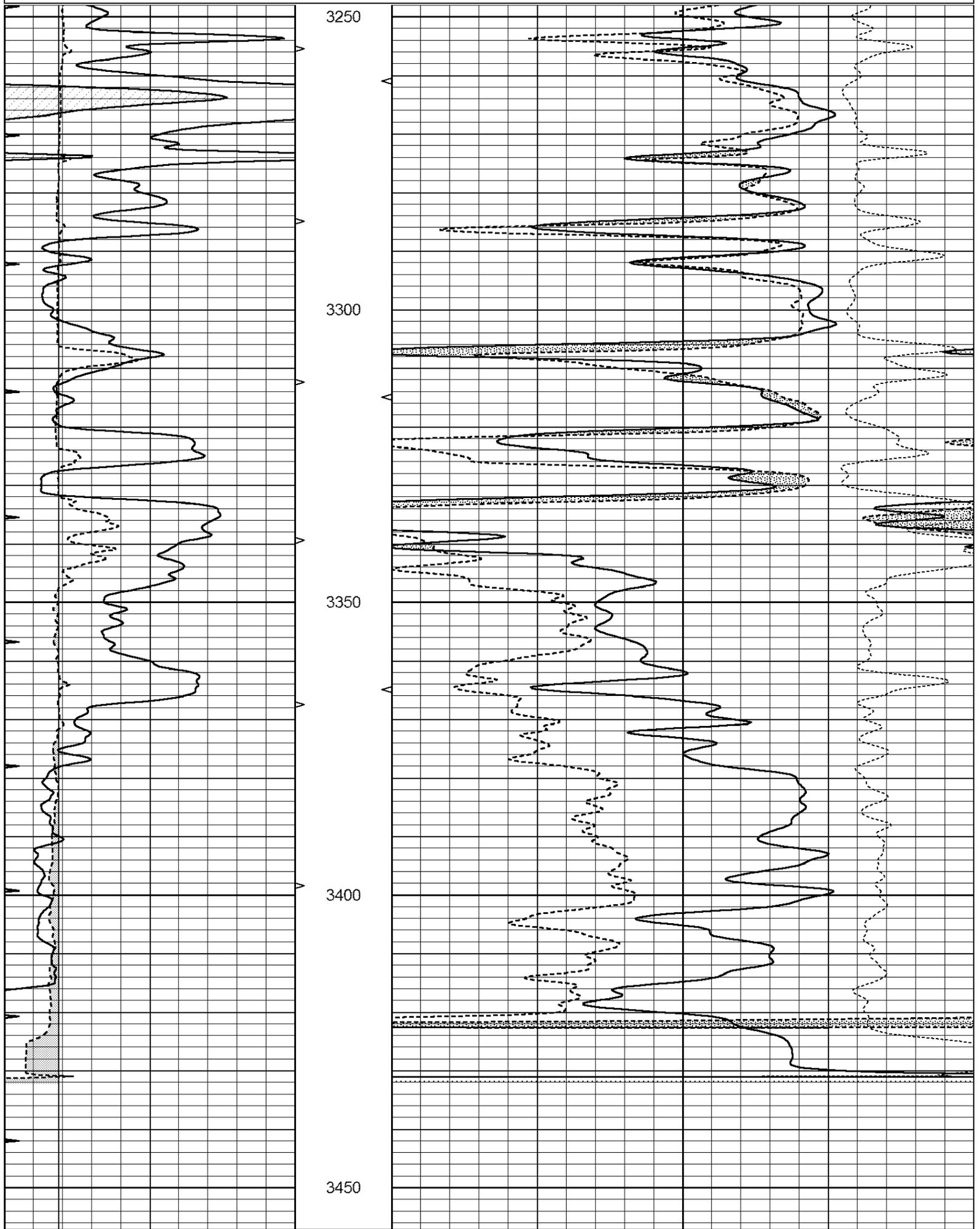


REPEAT SECTION

Database File: 409686ddn.db
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 Presentation Format: den_neu
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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



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			

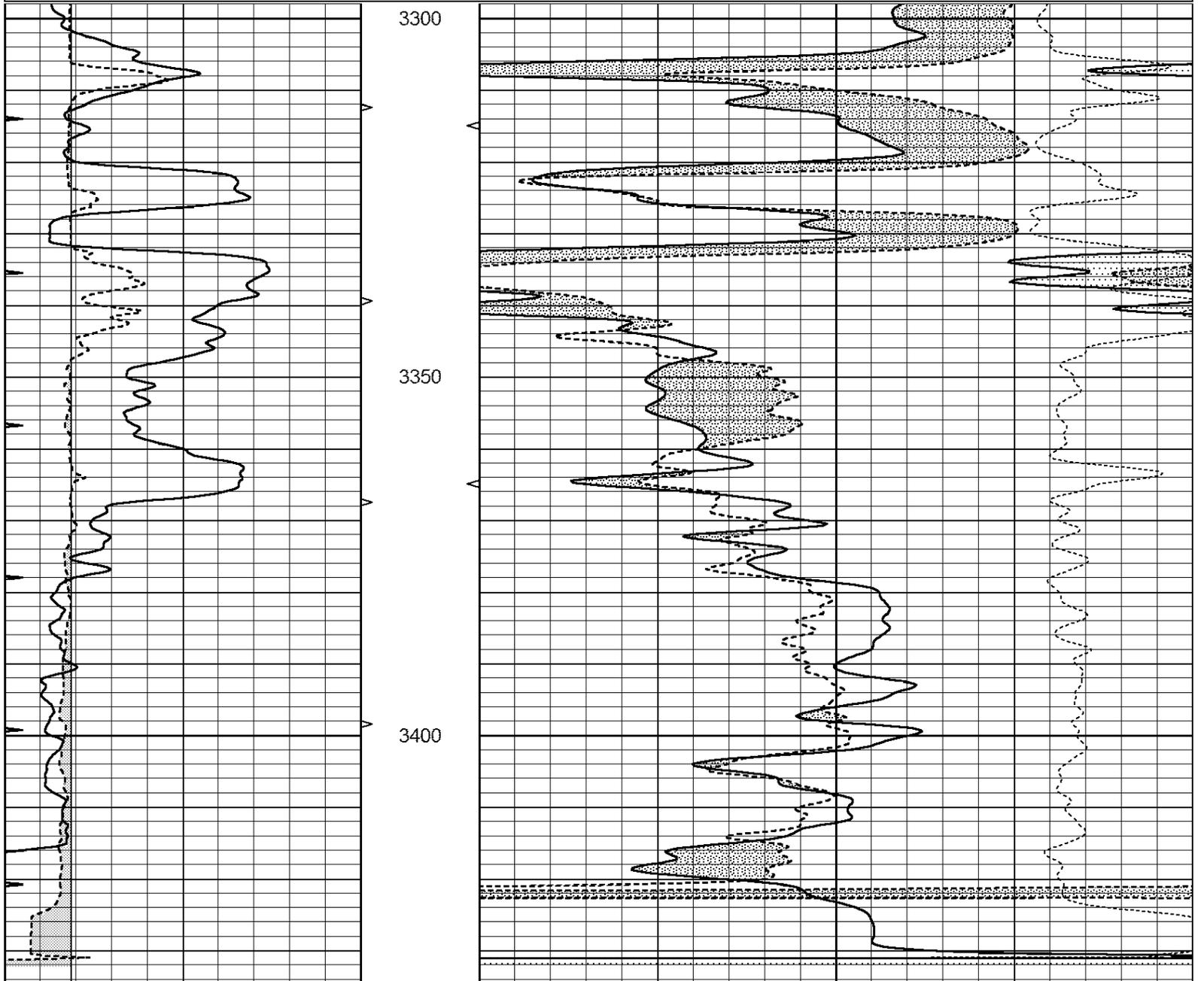


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DOLOMITE MATRIX

Database File: 409686ddn.db
 Dataset Pathname: pass2.4
 Presentation Format: den_neu
 Dataset Creation: Wed Oct 03 02:36:39 2012
 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			



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