



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY/NEUTRON LOG

Company		GREAT PLAINS ENERGY, INC.	
Well		MOFFETT #3-32	
Field		NORTON	
County		NORTON	
State		KANSAS	
Company		GREAT PLAINS ENERGY, INC.	
Well		MOFFETT #3-32	
Field		NORTON	
County		NORTON	
State		KANSAS	
Location:		API # : 15-137-20621-0000 1170' FNL & 1650' FEL	
Permanent Datum		GROUND LEVEL Elevation 2347	
Log Measured From		KELLY BUSHING 5' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 32 TWP 2S RGE 23W		Elevation K.B. 2352 D.F. 2350 G.L. 2347	
Date	10/10/12		
Run Number	TWO		
Depth Driller	3679		
Depth Logger	3680		
Bottom Logged Interval	3654		
Top Log Interval	3000		
Casing Driller	8 5/8" @ 207		
Casing Logger	207		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2/60		
pH / Fluid Loss	10.5/6.8		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	1.3 @ 72F		
Rinf @ Meas. Temp	.97 @ 72F		
Rinc @ Meas. Temp	1.56 @ 72F		
Source of Rinf / Rinc	MEASURED		
Rin @ BHT	.82 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	113F		
Maximum Recorded Temperature	680		
Equipment Number	HAYS, KS.		
Location	JASON CARPELLUCCI		
Recorded By	MIKE GARRISON		
Witnessed By	CLAYTON ERICKSON		

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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 (785) 628-6395
DIRECTIONS
NORTON KS. - FROM W. EDGE GO 1 W. TO RD. W2 - 1 N. - 1/2 W. - S. INTO



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MAIN SECTION

Database File:

009746ddn.db

Dataset Pathname:

pass6.1

Presentation Format:

_den_neu

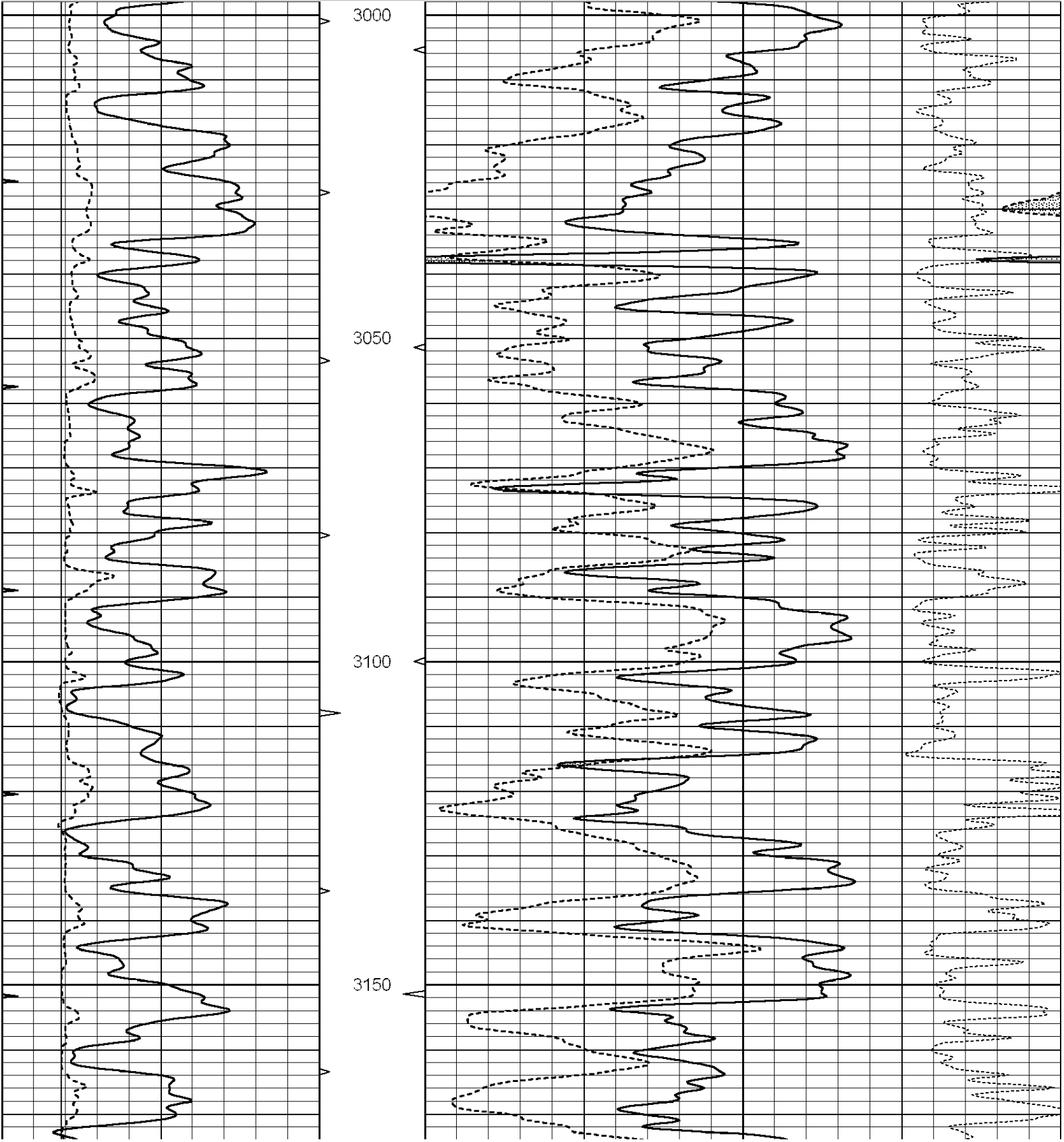
Dataset Creation:

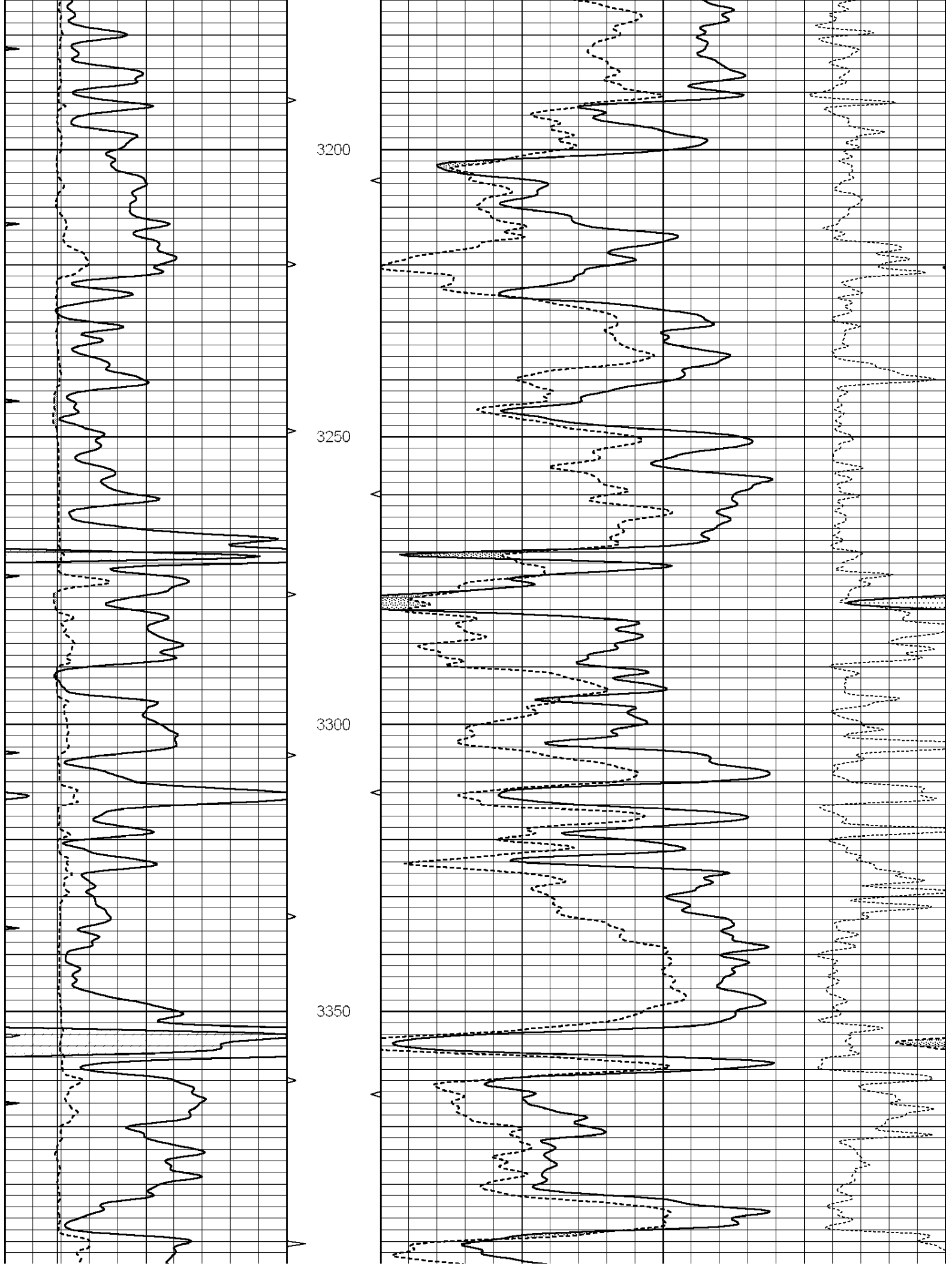
Wed Oct 10 14:04:54 2012 by Calc Open-Cased 090629

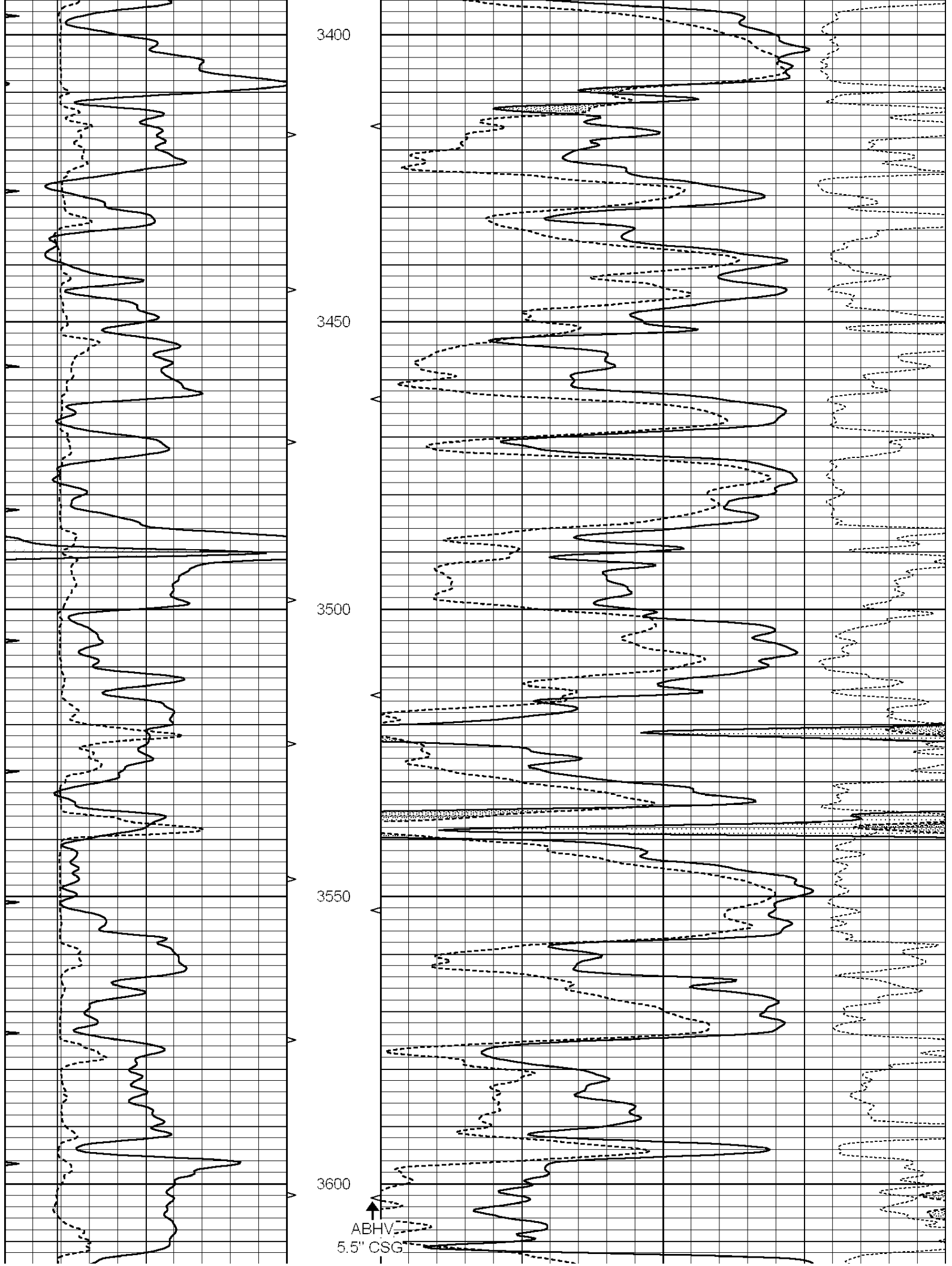
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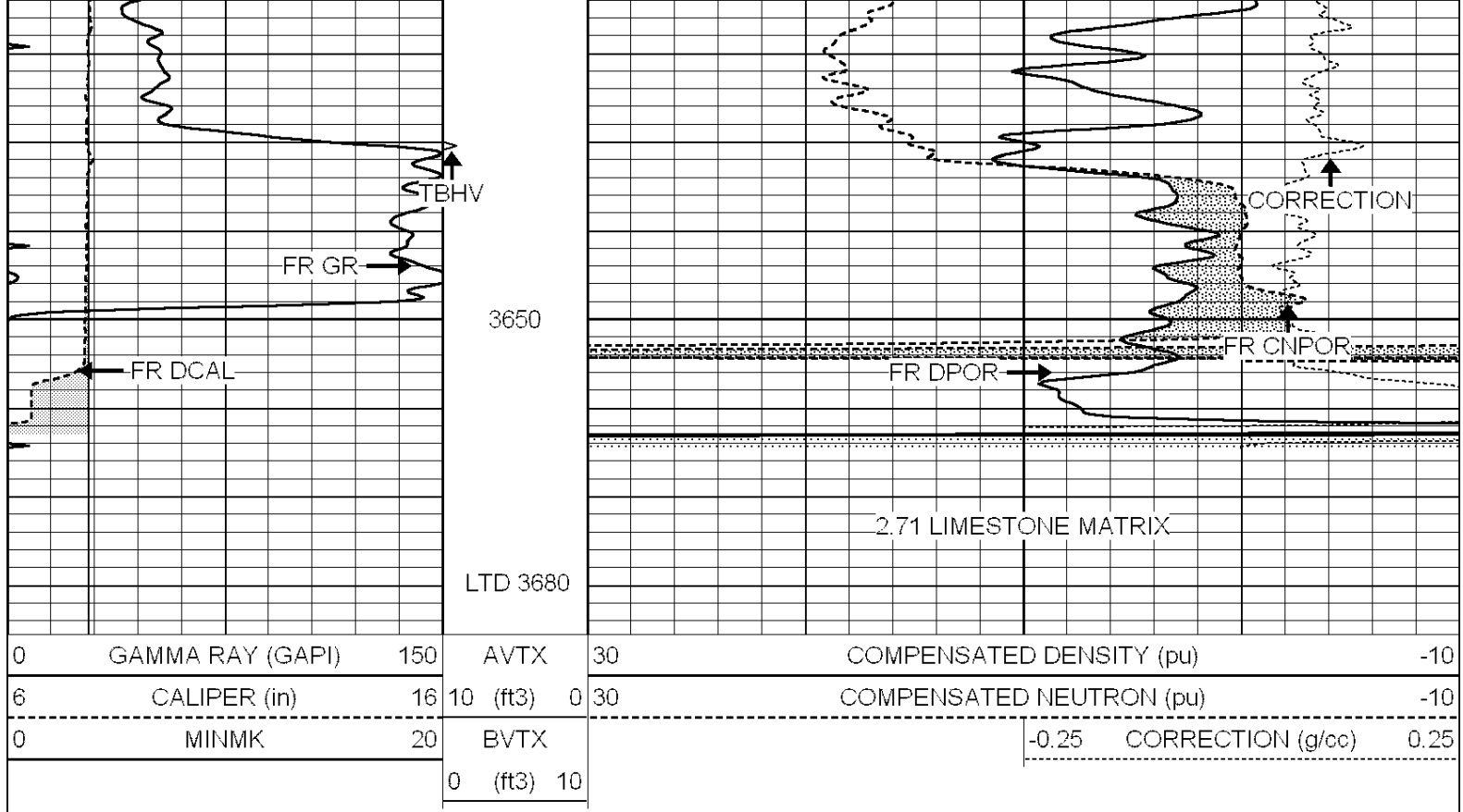
Depth in Feet scaled 1:240

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





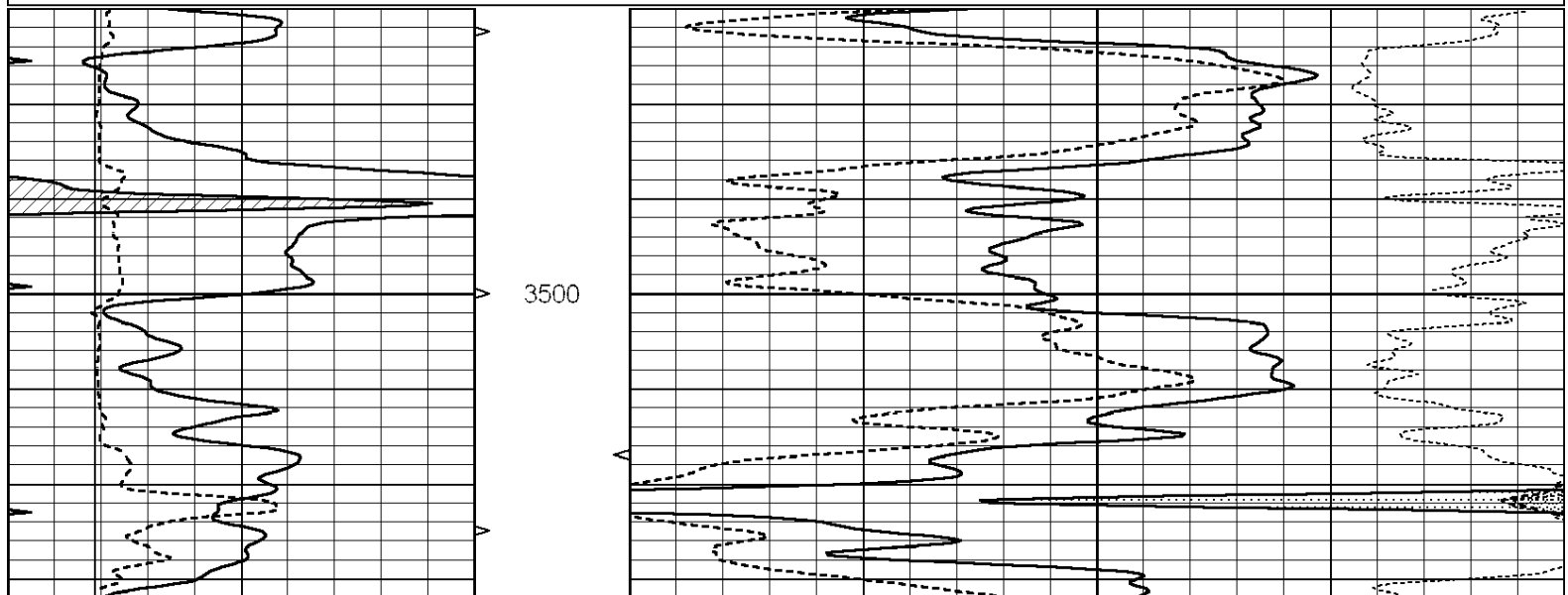


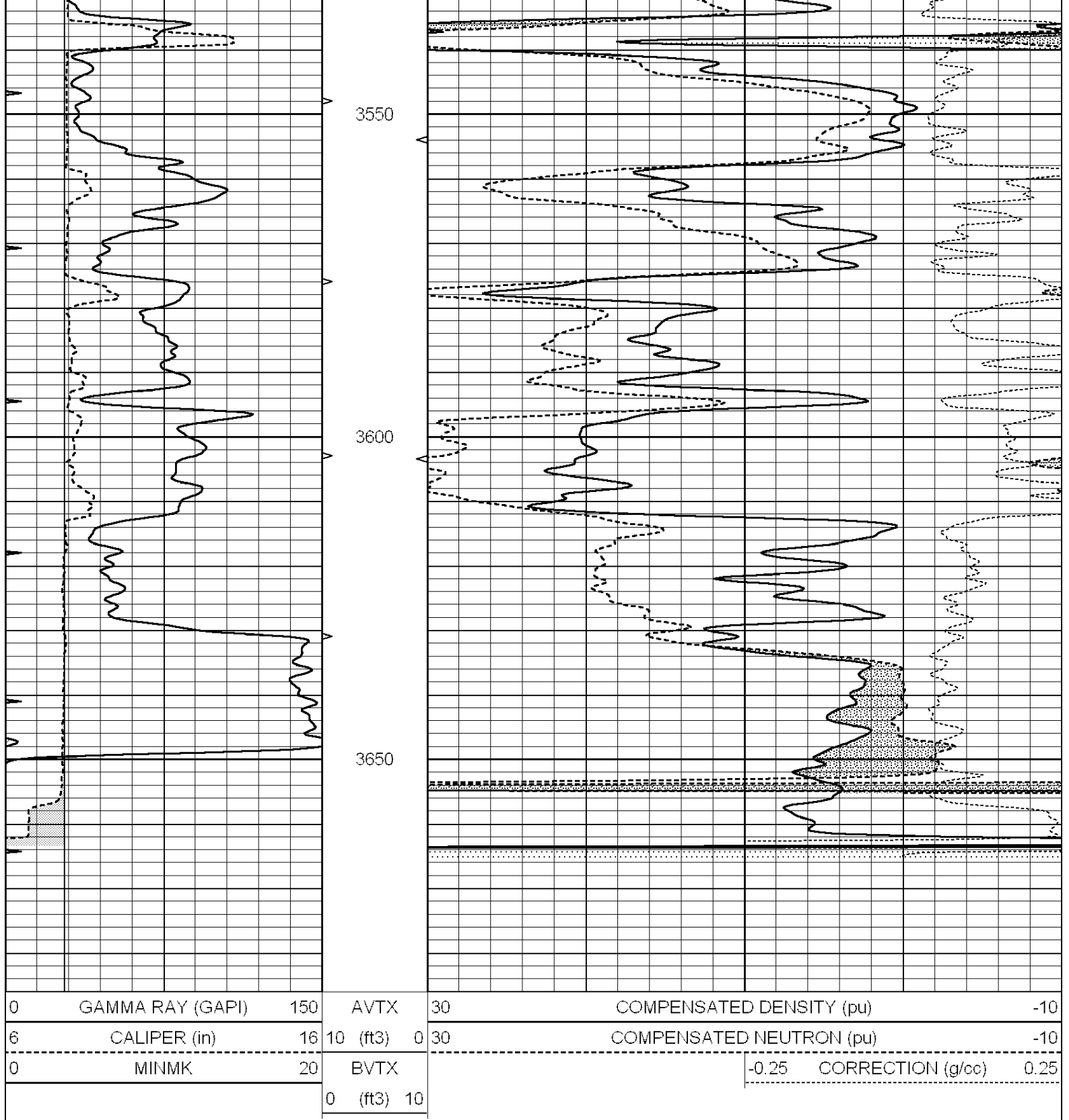


REPEAT SECTION

Database File: 009746ddn.db
 Dataset Pathname: pass5.2
 Presentation Format: _den_neu
 Dataset Creation: Wed Oct 10 13:36:02 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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



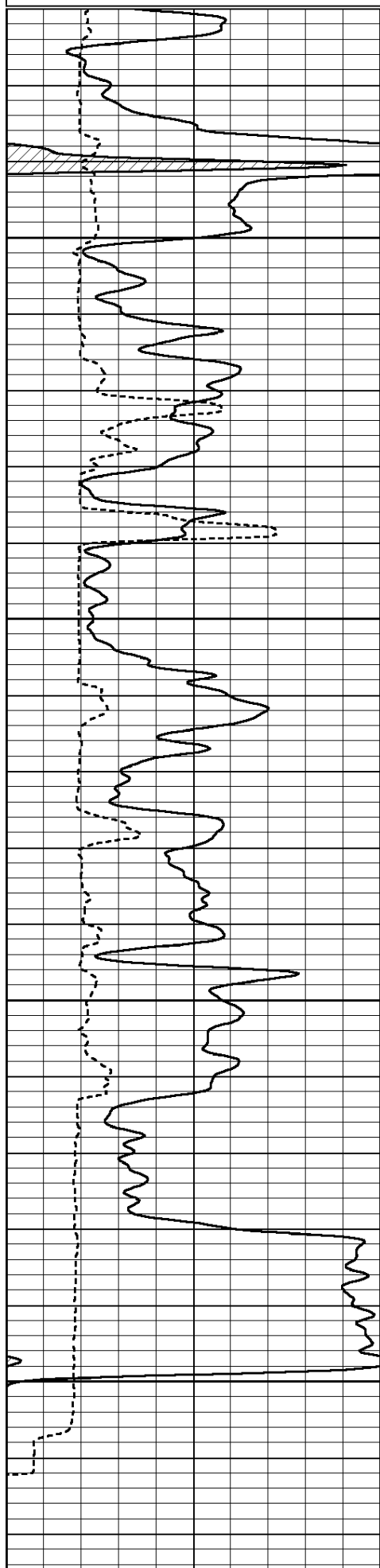


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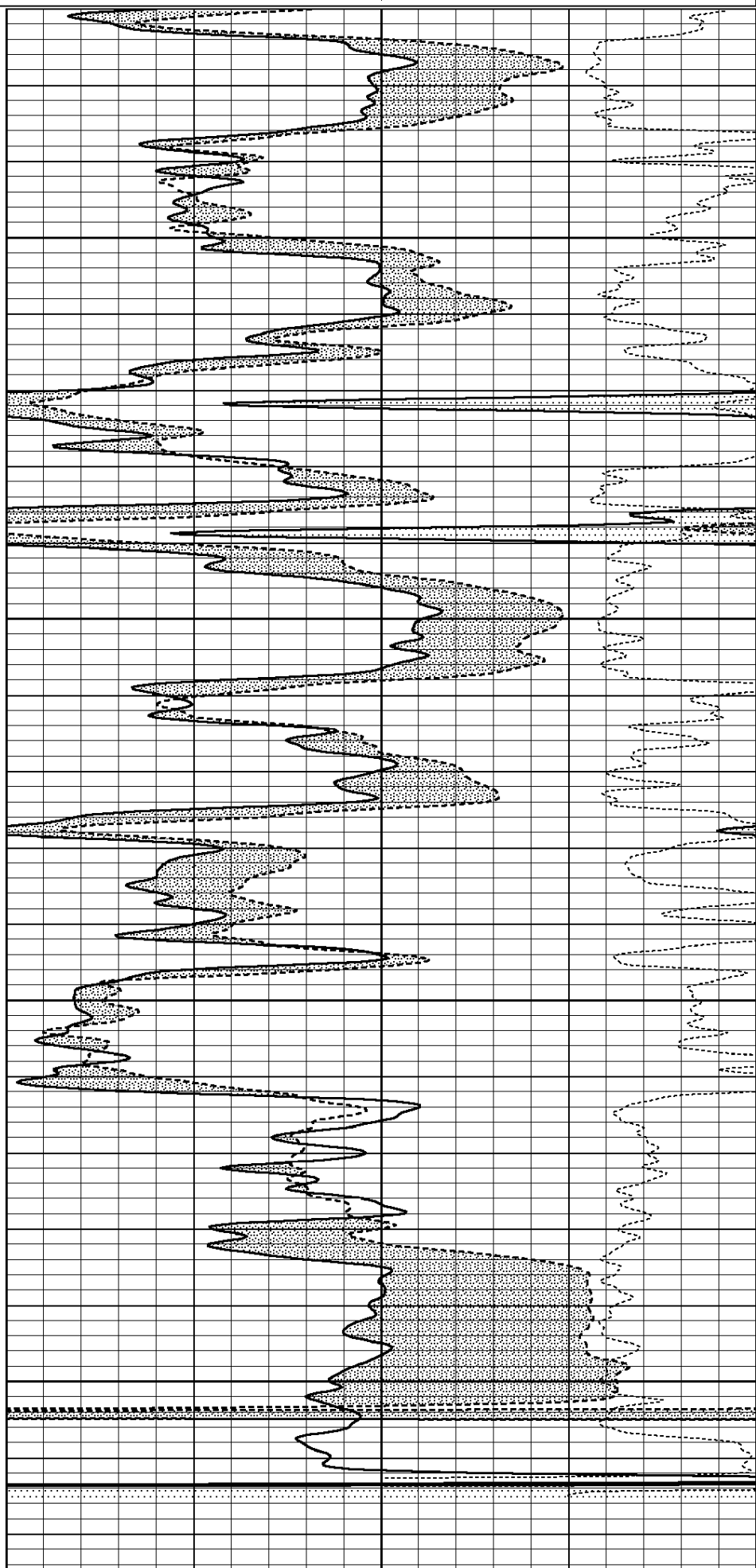
DOLOMITE MATRIX

Database File: 009746ddn.db
 Dataset Pathname: pass5.4
 Presentation Format: _den_neu
 Dataset Creation: Wed Oct 10 13:47:24 2012
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
6	CALIPER (in)	16



30	COMPENSATED DENSITY (pu)	-10
30	COMPENSATED NEUTRON (pu)	-10
-0.25	CORRECTION (g/cc)	0.25



Compensated Density Calibration Report					
Serial-Model:		GEAR4-GEARHART			
Source / Verifier:		143 / 143			
Master Calibration Performed:		Mon Mar 19 19:07:19 2012			
Master Calibration					
	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1015.91	497.51	cps
Aluminum	2.600	g/cc	227.67	350.20	cps

Spine Angle = 76.79

Density/Spine Ratio = 0.579

	Size		Reading	
Small Ring	8.00	in	3.21	V
Large Ring	14.00	in	5.46	V

Compensated Neutron Calibration Report

Serial Number: 6I
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: #8
Tool Model: OPEN
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 175.0 cps

Sensitivity: 0.8371 GAPI/cps