



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
LOG

Company	CAERUS KANSAS, LLC.	Company	CAERUS KANSAS, LLC.
Well	BENTON #1-42	Well	BENTON #1-42
Field	BOYD	Field	BOYD
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:	API # : 15-009-25715-0000 1598' FNL & 1026' FEL NW - NW - SE - NE	Other Services DIL/MEL SONIC	
Permanent Datum	GROUND LEVEL	Elevation	1828
Log Measured From	KELLY BUSHING 10' A.G.L.		
Drilling Measured From	KELLY BUSHING		
SEC 1	TWP 18S	RGE 14W	
Date	7/10/12		
Run Number	ONE		
Depth Driller	3423		
Depth Logger	3424		
Bottom Logged Interval	3400		
Top Log Interval	2400		
Casing Driller	8 5/8" @ 829'		
Casing Logger	834		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 6,000 PPM	
Density / Viscosity	9.3/56		
pH / Fluid Loss	10.5/9.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.450 @ 80F		
Rmt @ Meas. Temp	.334 @ 80F		
Rmc @ Meas. Temp	.540 @ 80F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.324 @ 111F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:30 A.M.		
Maximum Recorded Temperature	111F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JUSTIN CARTER	BRIAN KARLIN	

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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

RUSSELL, KS. & I-70, S. TO (HWY 4 & 281) 2E. TO "RD. 20", 1 1/2S. ACROSS RR TRACKS, W. INTO

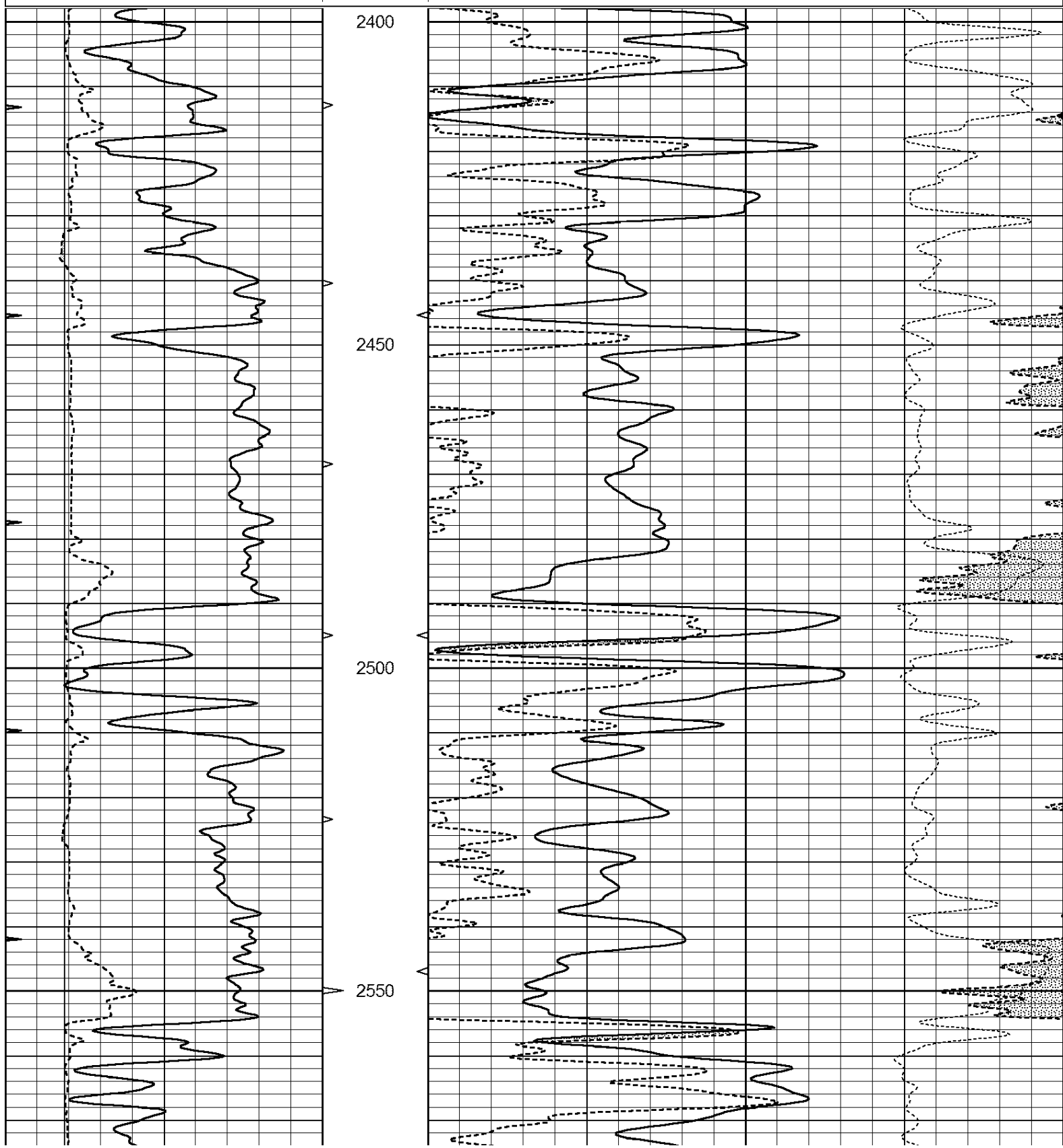


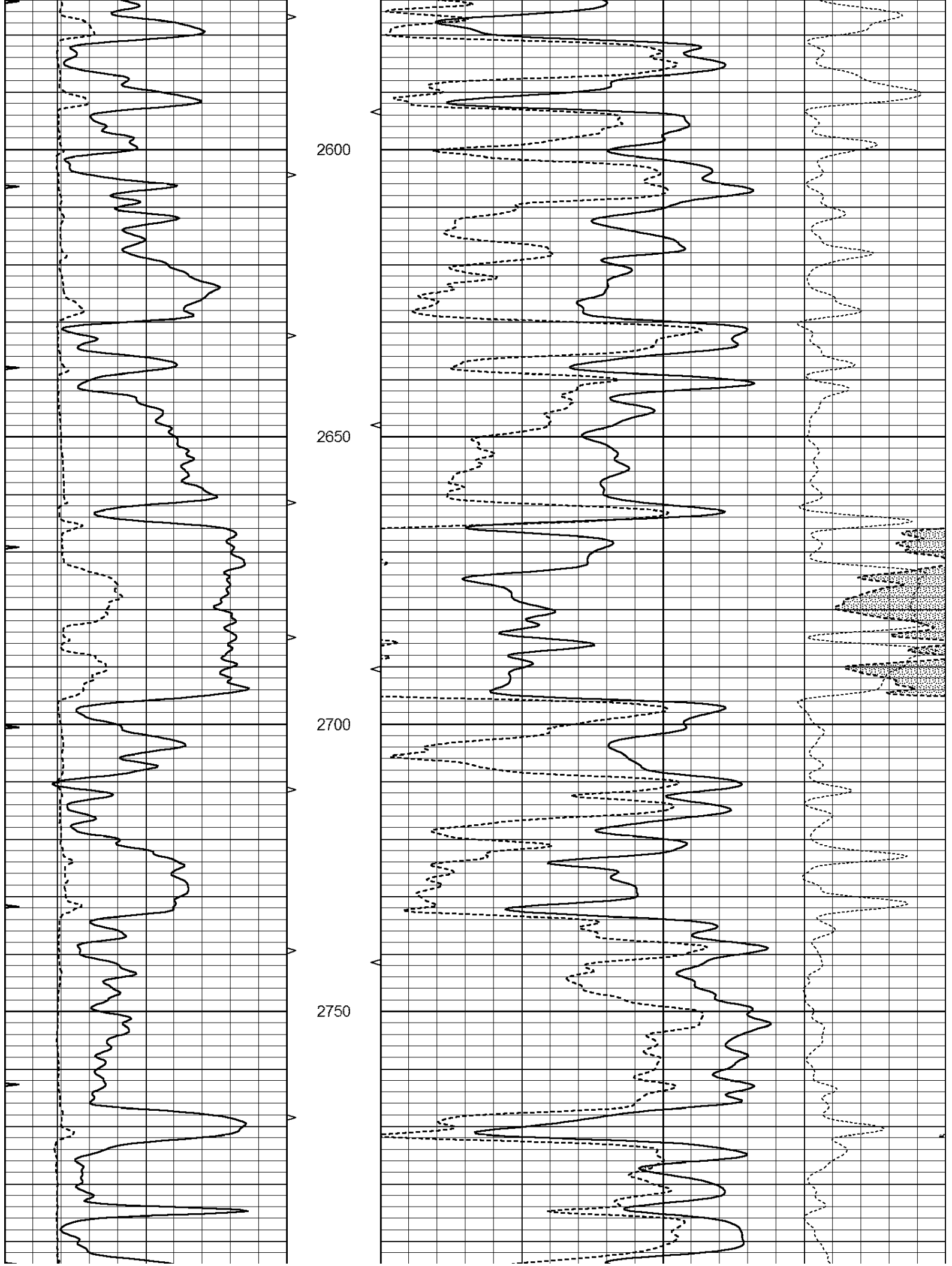
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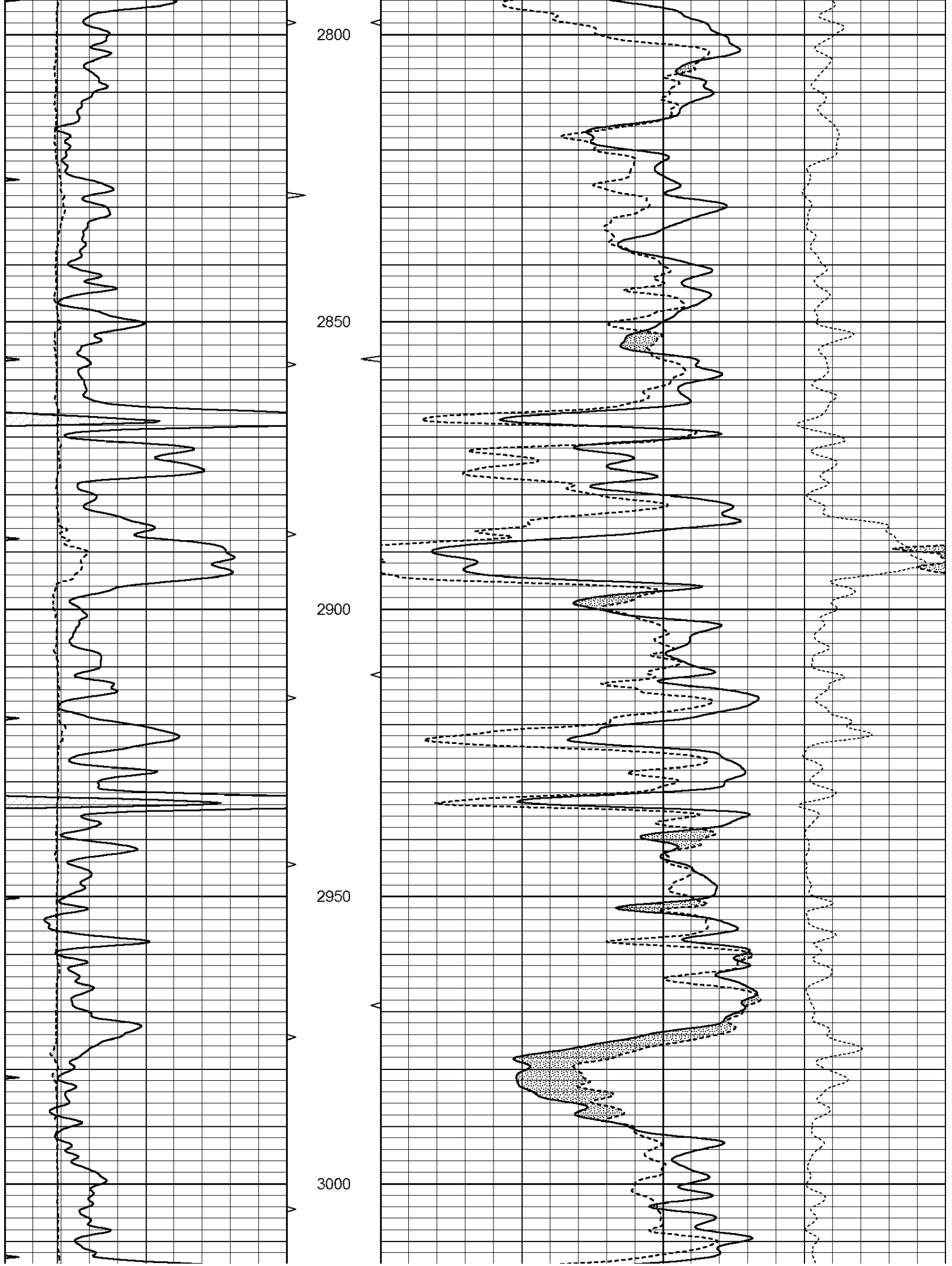
MAIN SECTION

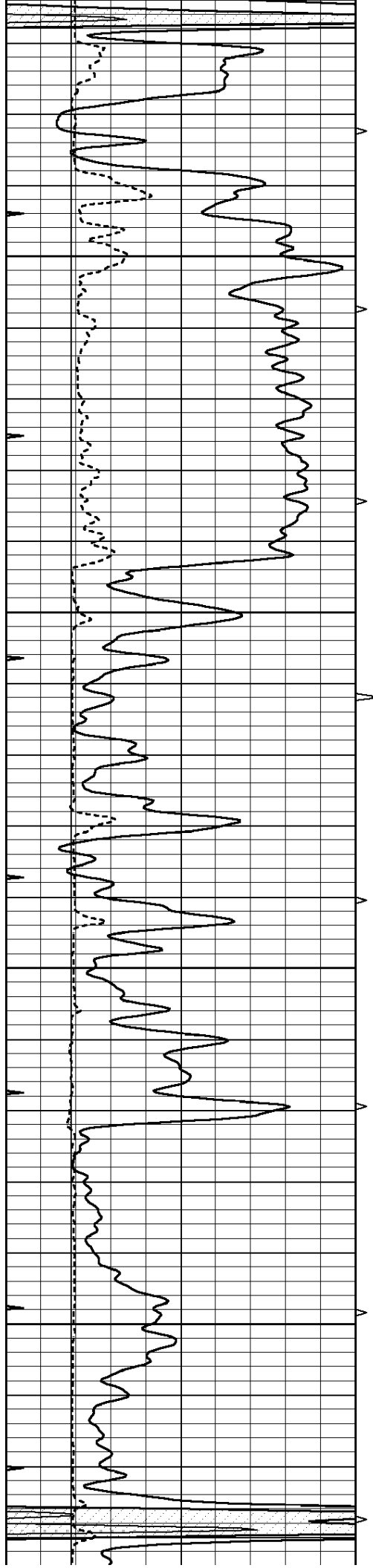
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Dataset Pathname: pass3.3
Presentation Format: den_neu
Dataset Creation: Tue Jul 10 07:47:46 2012 by Calc Open-Cased 110302
Charted by: Depth in Feet scaled 1:240

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		







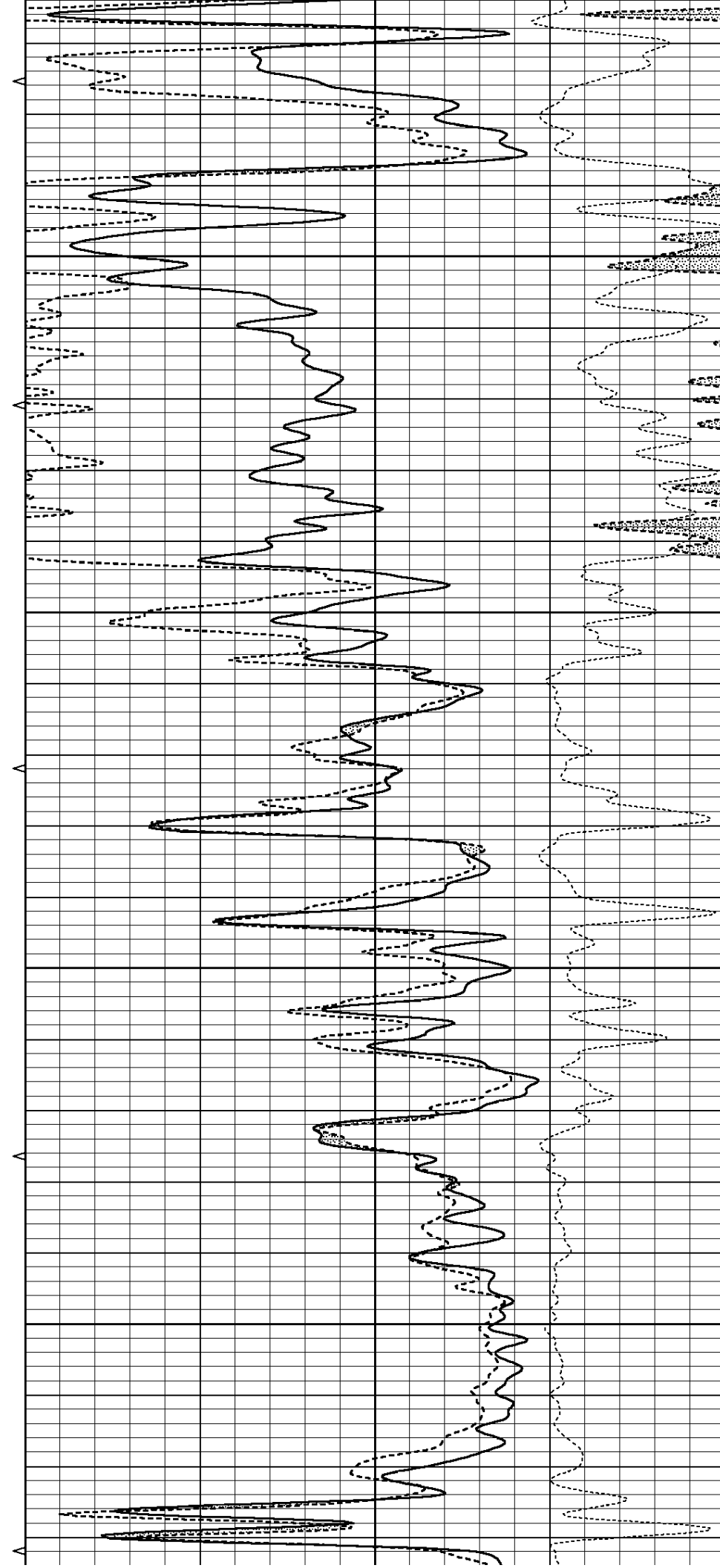


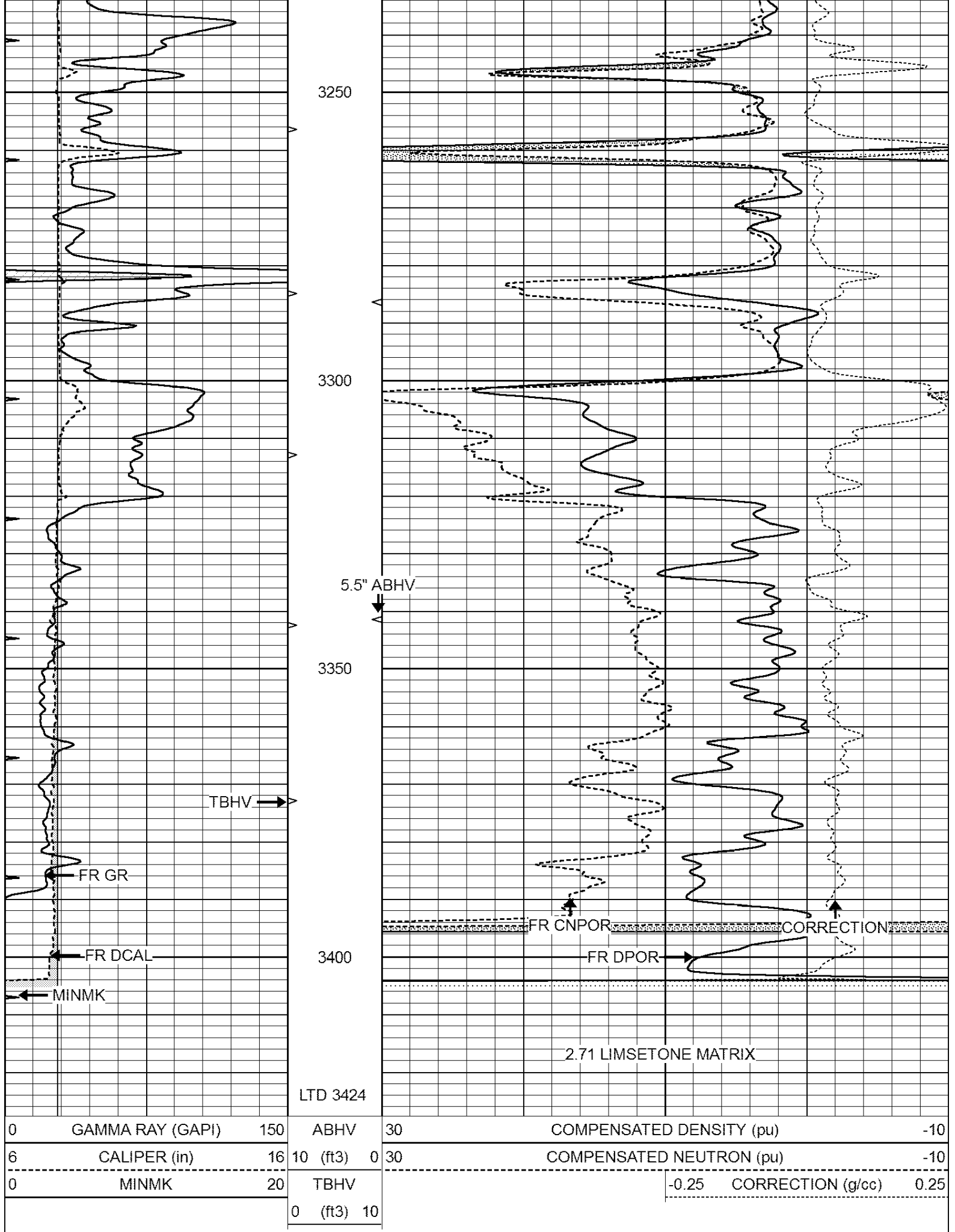
3050

3100

3150

3200





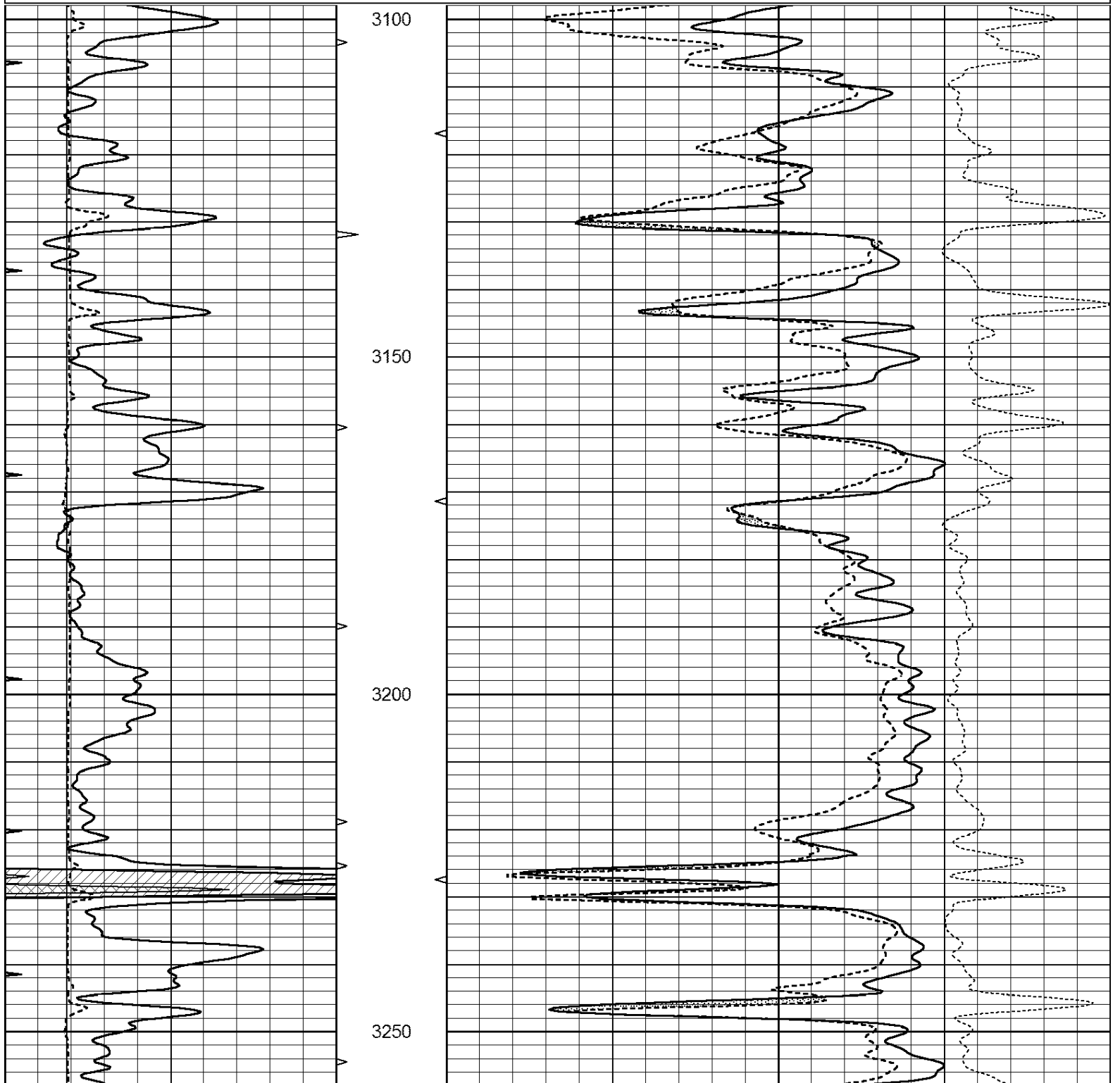


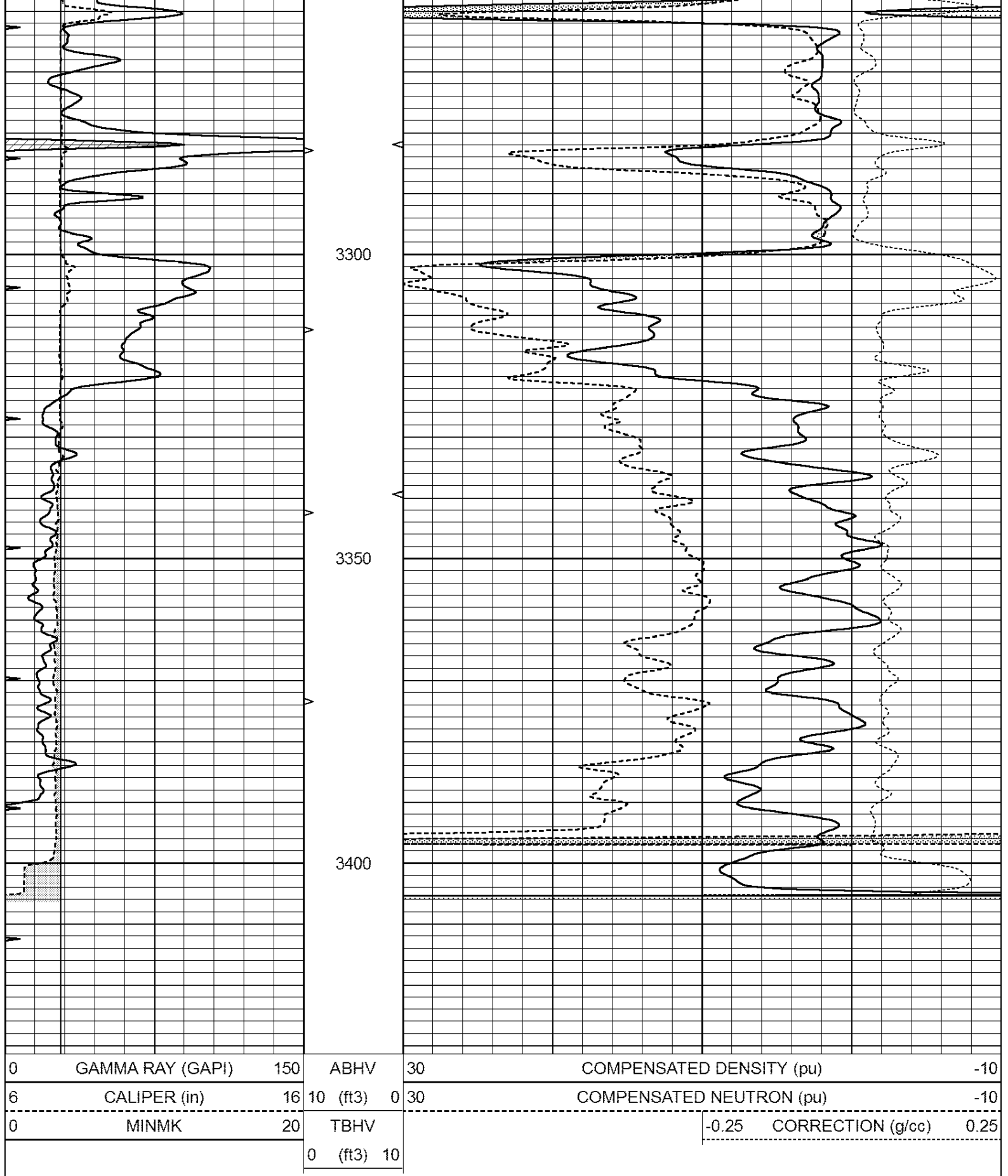
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REPEAT SECTION

Database File: 409429ddn.db
Dataset Pathname: pass2.6
Presentation Format: den_neu
Dataset Creation: Tue Jul 10 07:53:03 2012
Charted by: Depth in Feet scaled 1:240

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6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25	CORRECTION (g/cc) 0.25
			0 (ft3) 10			



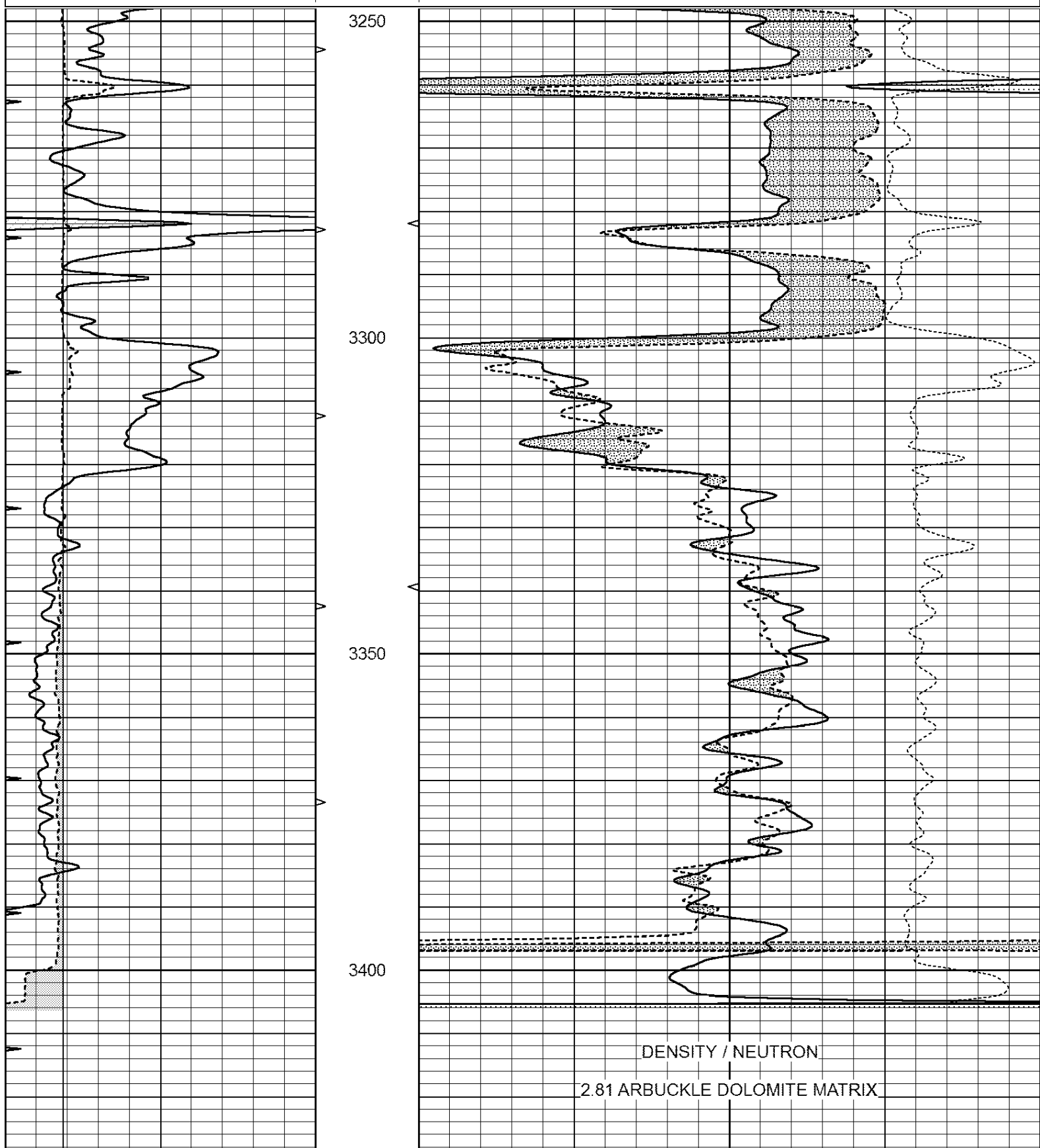


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DOLOMITE MATRIX

Database File: 409429ddn.db
Dataset Pathname: pass2.5
Presentation Format: den_neu
Dataset Creation: Tue Jul 10 06:49:35 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			



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			

Database File: 409429ddn.db		Calibration Report	
Dataset Pathname: pass3.3			
Dataset Creation: Tue Jul 10 07:47:46 2012 by Calc Open-Cased 110302			

Dual Induction Calibration Report	
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Serial-Model:	DIL4-GEAR
Performed:	Thu Jul 05 13:44:21 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.008	0.666	V	0.000	400.000	mmho/m	570.000	0.000
Medium	-0.003	0.769	V	0.000	462.500	mmho/m	560.000	-2.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.013	0.651	V	0.000	400.000	mmho/m	627.541	-8.365
Medium	0.020	0.754	V	0.000	462.500	mmho/m	630.311	-12.549

Litho Density Calibration Report	
Serial: 003N	Model: PRB
Performed Tue Sep 08 14:14:44 2009	

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper	Readings	Reference	
Low Ref	3.4	7.9	
High Ref	5.5	15.0	
Gain: 3.4			Offset: -3.5

Compensated Neutron Calibration Report	
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Serial Number:	070808
Tool Model:	Probe

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:	Tue Jul 03 02:09:35 2012		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	