



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company		CAPTIVA II, LLC.	
Well		EAKIN #3-7	
Field		WILDCAT	
County		PAWNEE	
State		KANSAS	
Location:		AP1 # : 15-145-21640-0000	
SEC 7 TWP 22S RGE 16W		Other Services DIL/MEL SONIC	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 11' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Date		6/6/11	
Run Number		ONE	
Depth Driller		4000	
Depth Logger		3994	
Bottom Logged Interval		3970	
Top Log Interval		3000	
Casing Driller		8 5/8"@1035'	
Casing Logger		1035	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.3/39	
pH / Fluid Loss		11.0/12.0	
Source of Sample		FLOWLINE	
Rm @ Meas. Temp		.750@90F	
Rmt @ Meas. Temp		.563@90F	
Rmc @ Meas. Temp		.900@90F	
Source of Rmt / Rmc		MEASUREMENT	
Rm @ BHT		.582@116F	
Time Circulation Stopped		2.5 HOURS	
Time Logger on Bottom		10:45 A.M.	
Maximum Recorded Temperature		116F	
Equipment Number		4010	
Location		HAYS, KANSAS	
Recorded By		JEFF LUEBBERS	
Witnessed By		KEITH REAVIS	

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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
LARNED, KS. (DOWN TOWN) 3/4W. ON HWY 156 JUST PAST SECOND BRIDGE, 1/2S., 1/2W. IN

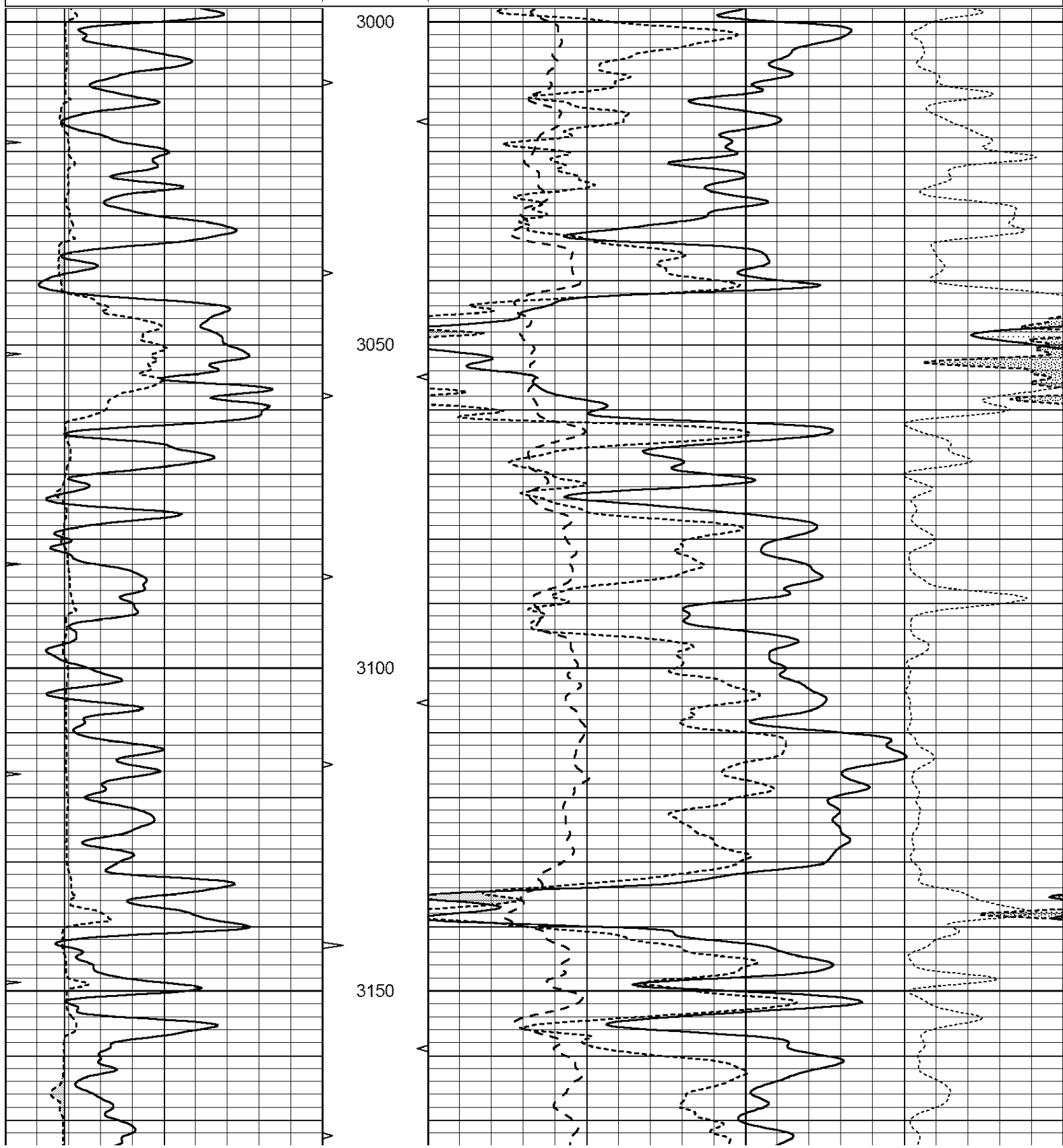


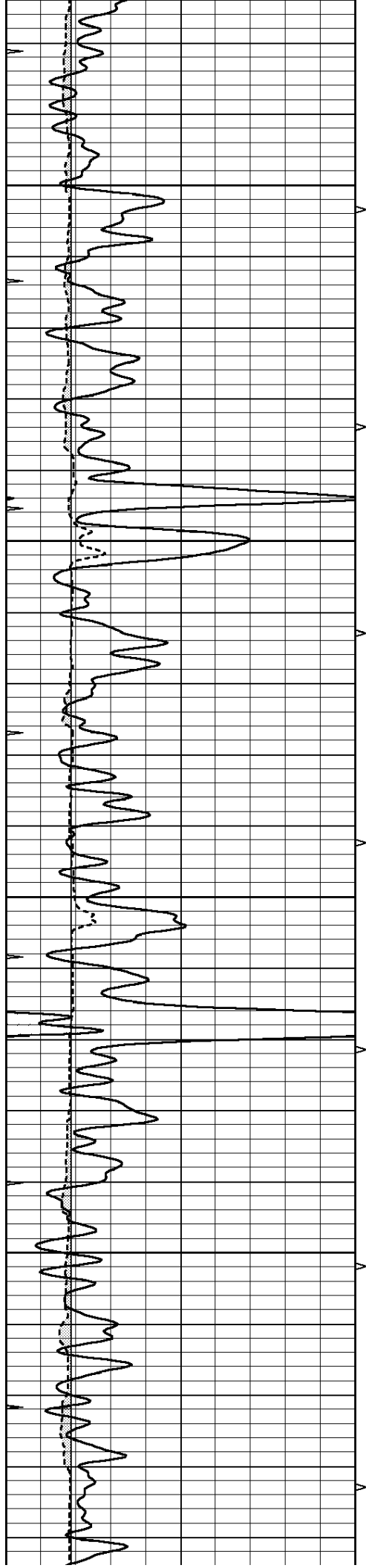
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MAIN SECTION

Database File: 006965pe.db
 Dataset Pathname: pass6.6
 Presentation Format: ldt_neu
 Dataset Creation: Mon Jun 06 20:23:06 2011 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	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		



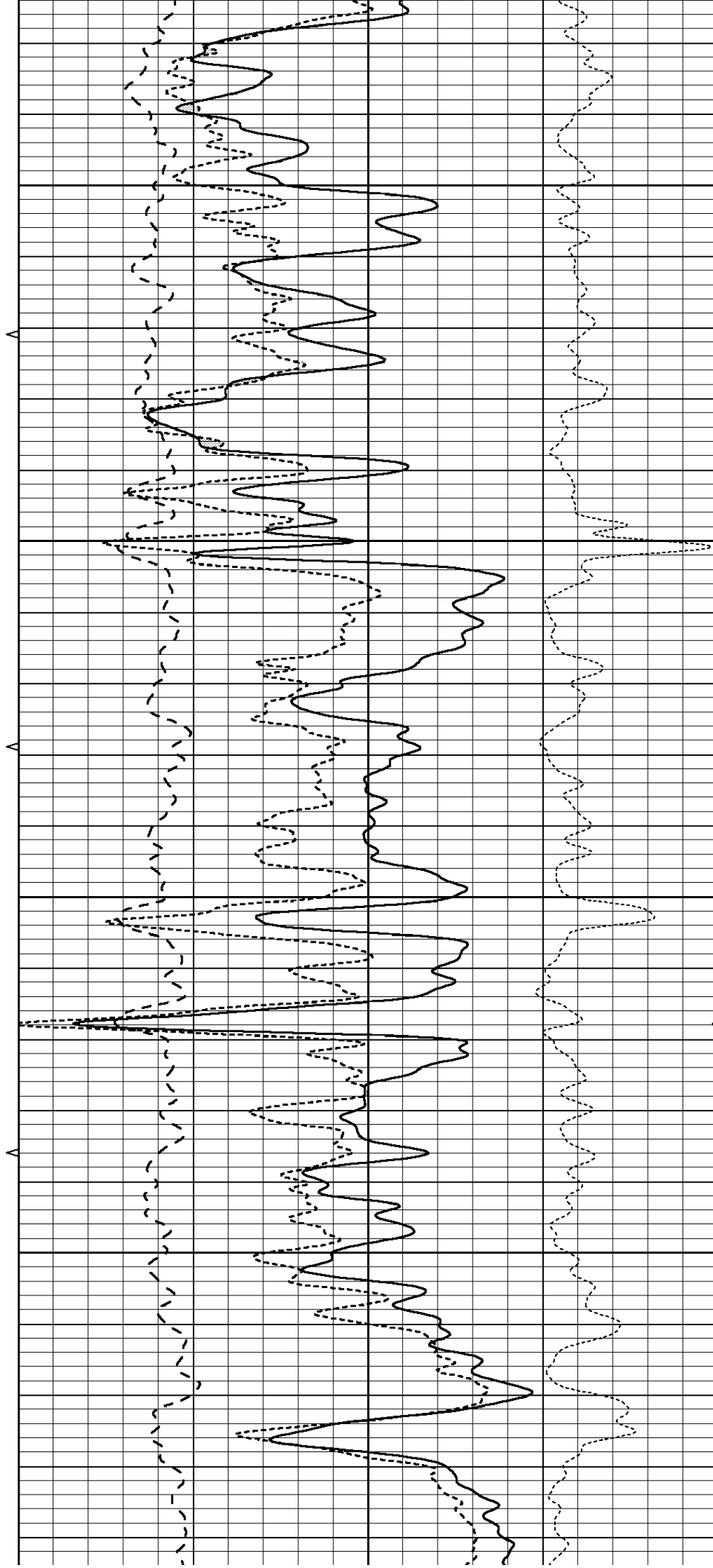


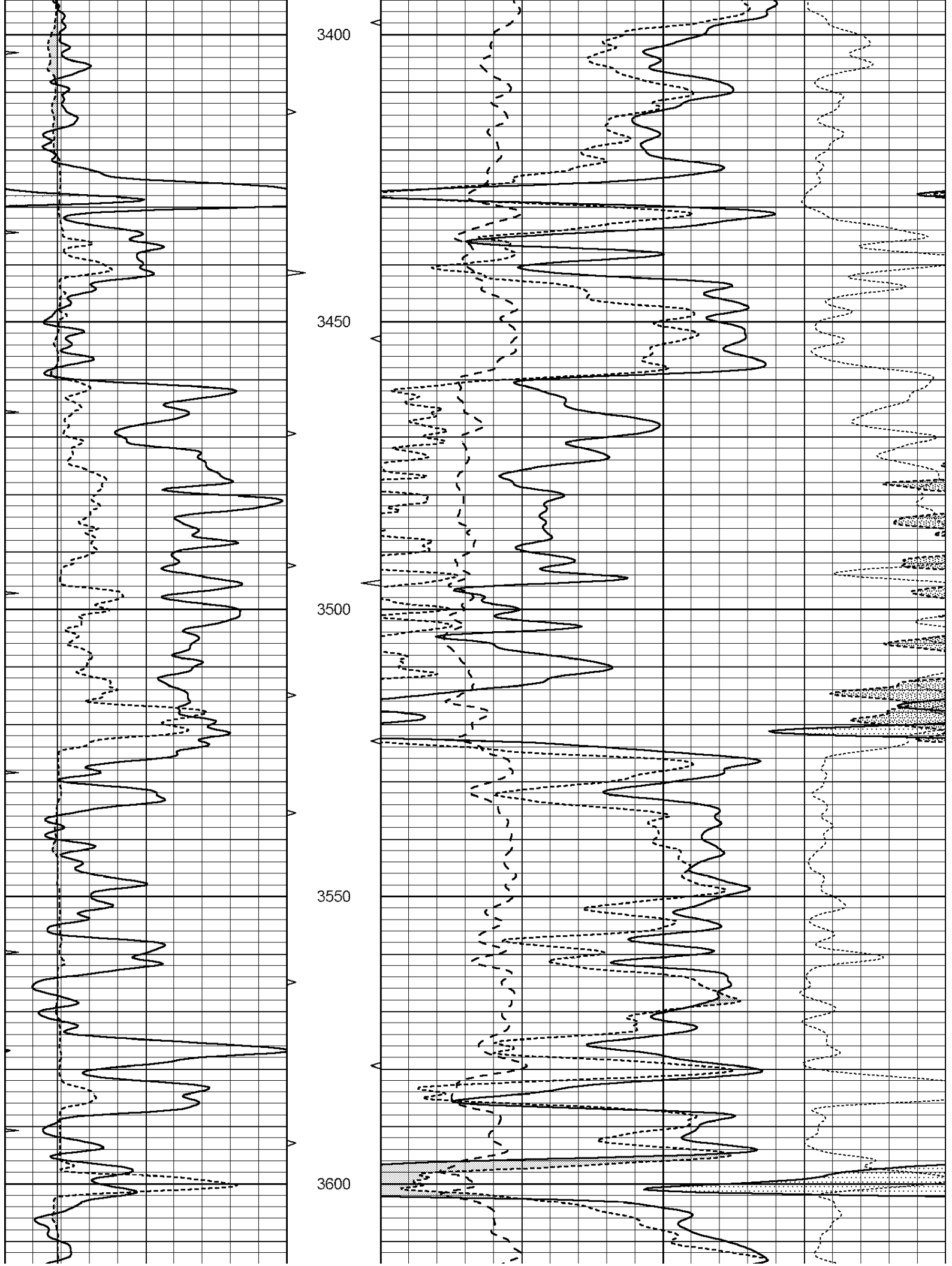
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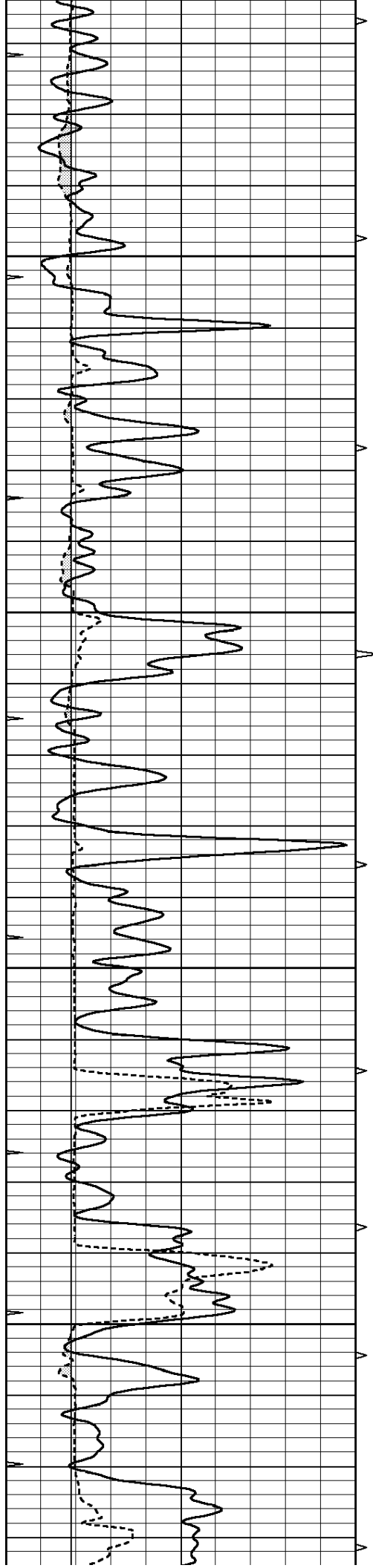
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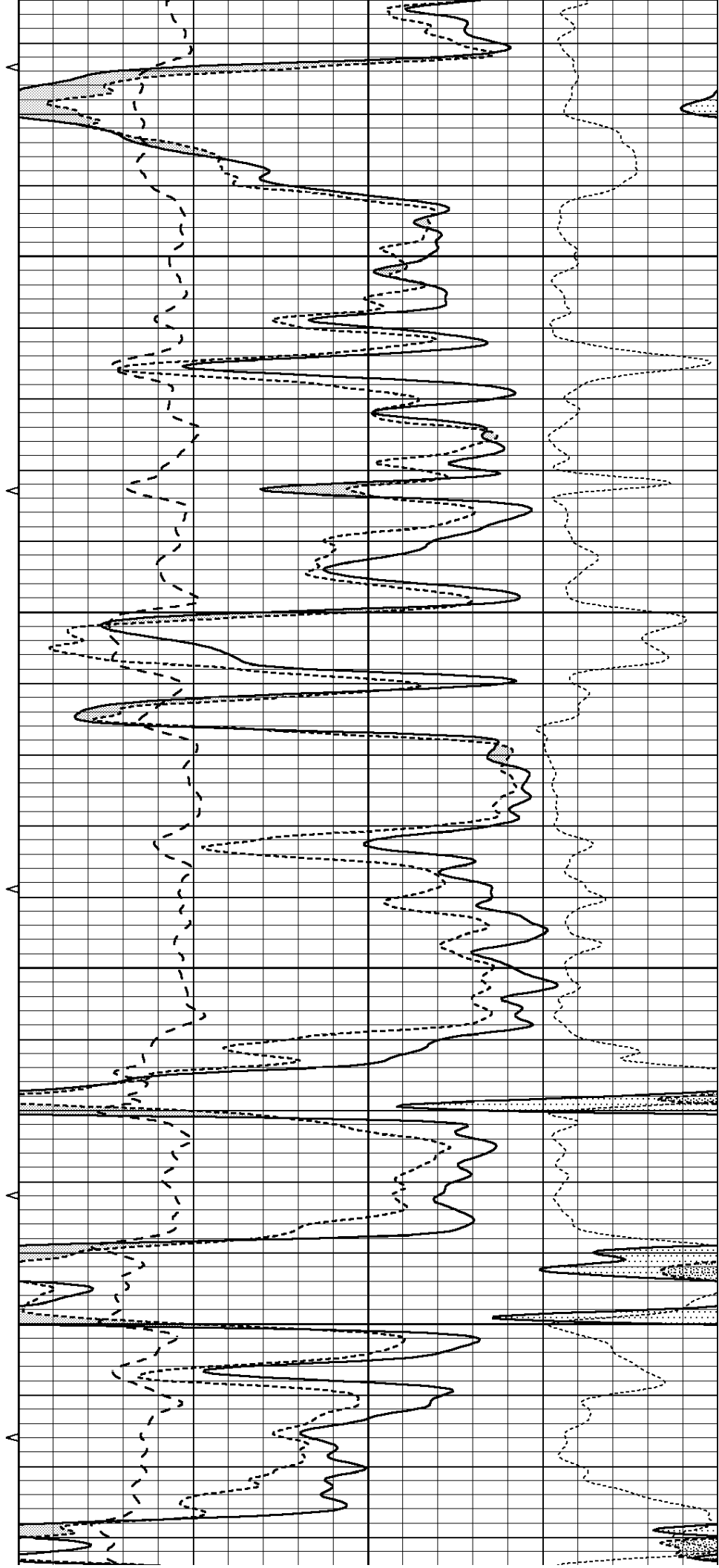


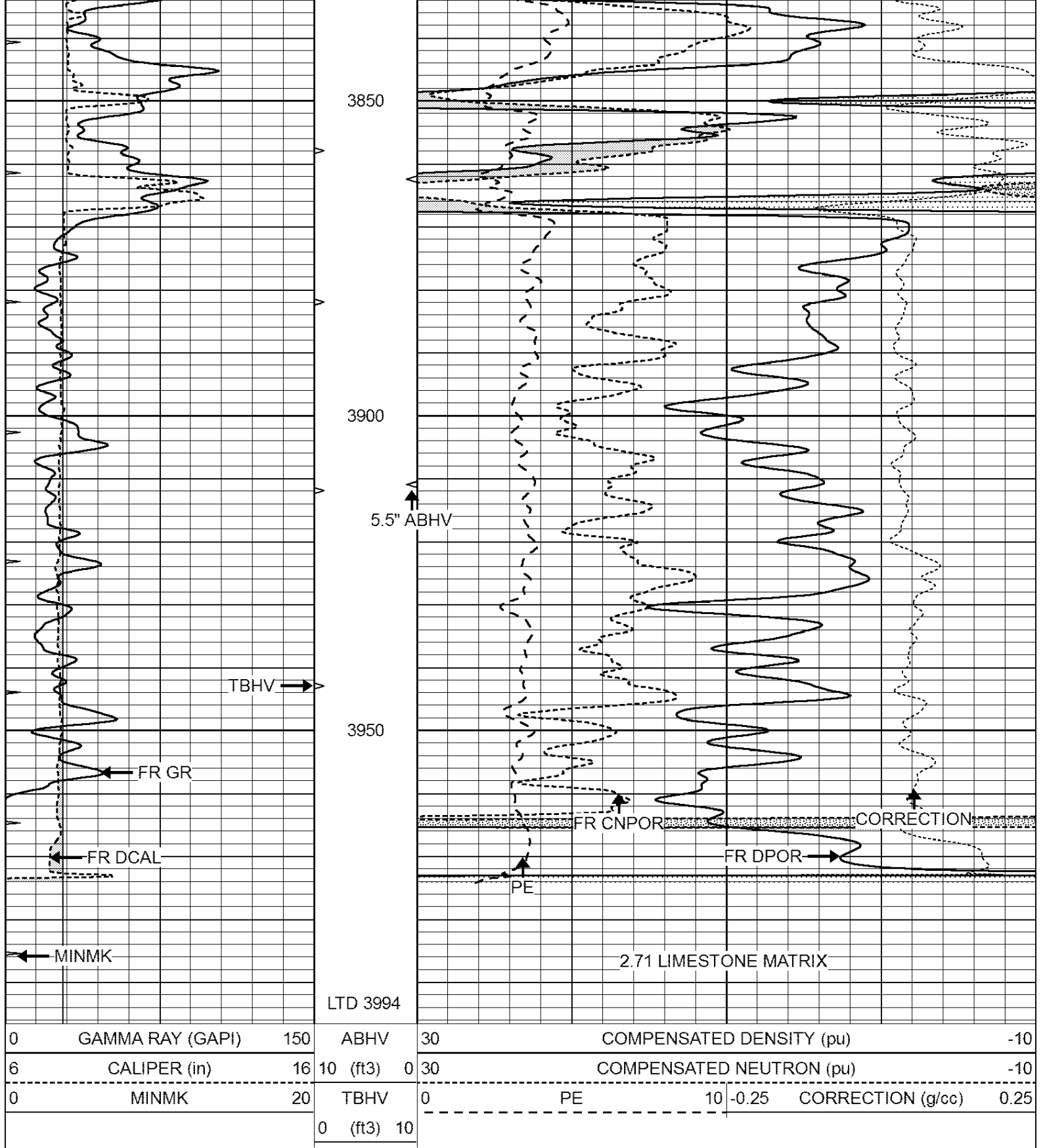
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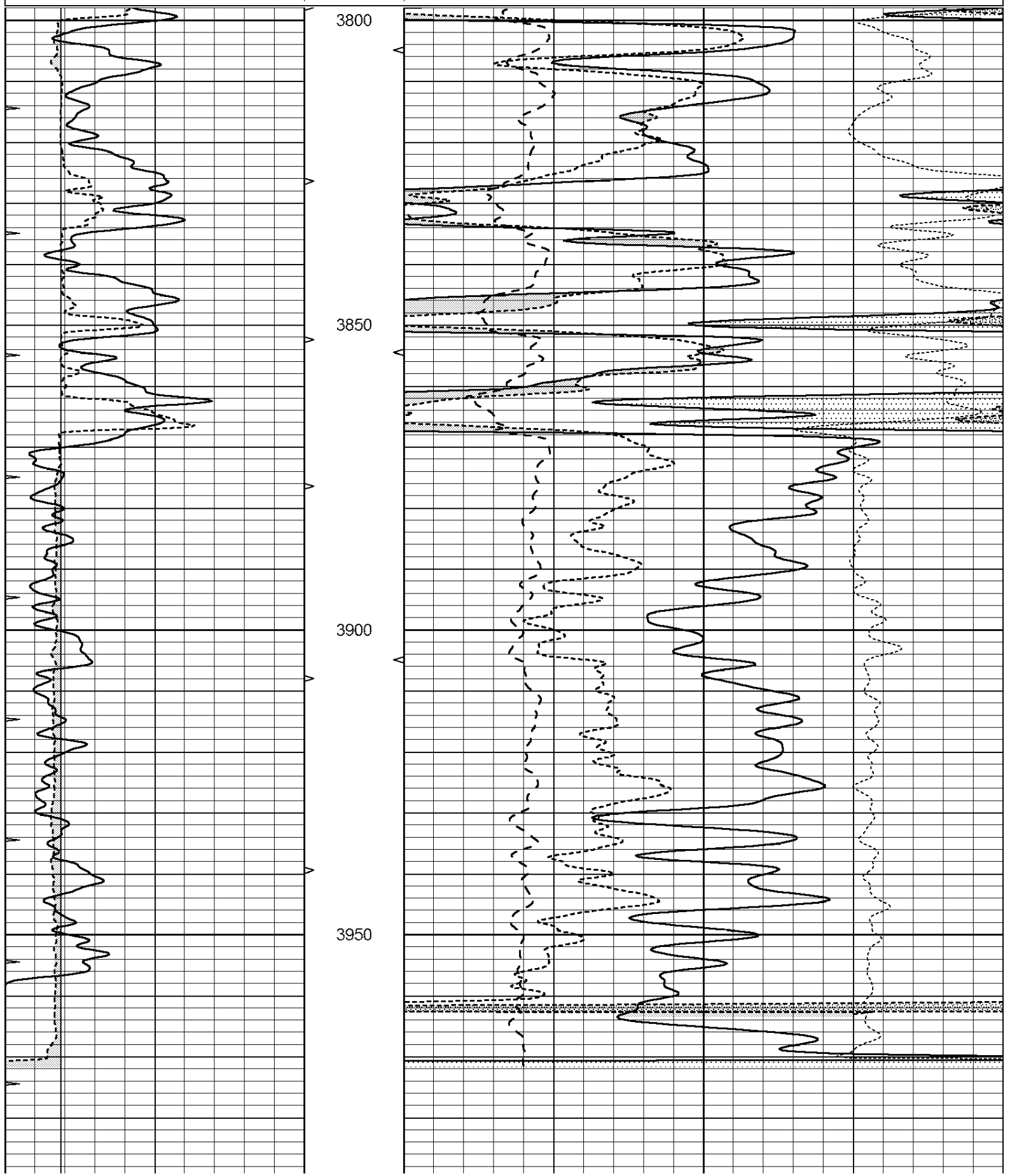




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REPEAT SECTION

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	PE	10 -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	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			

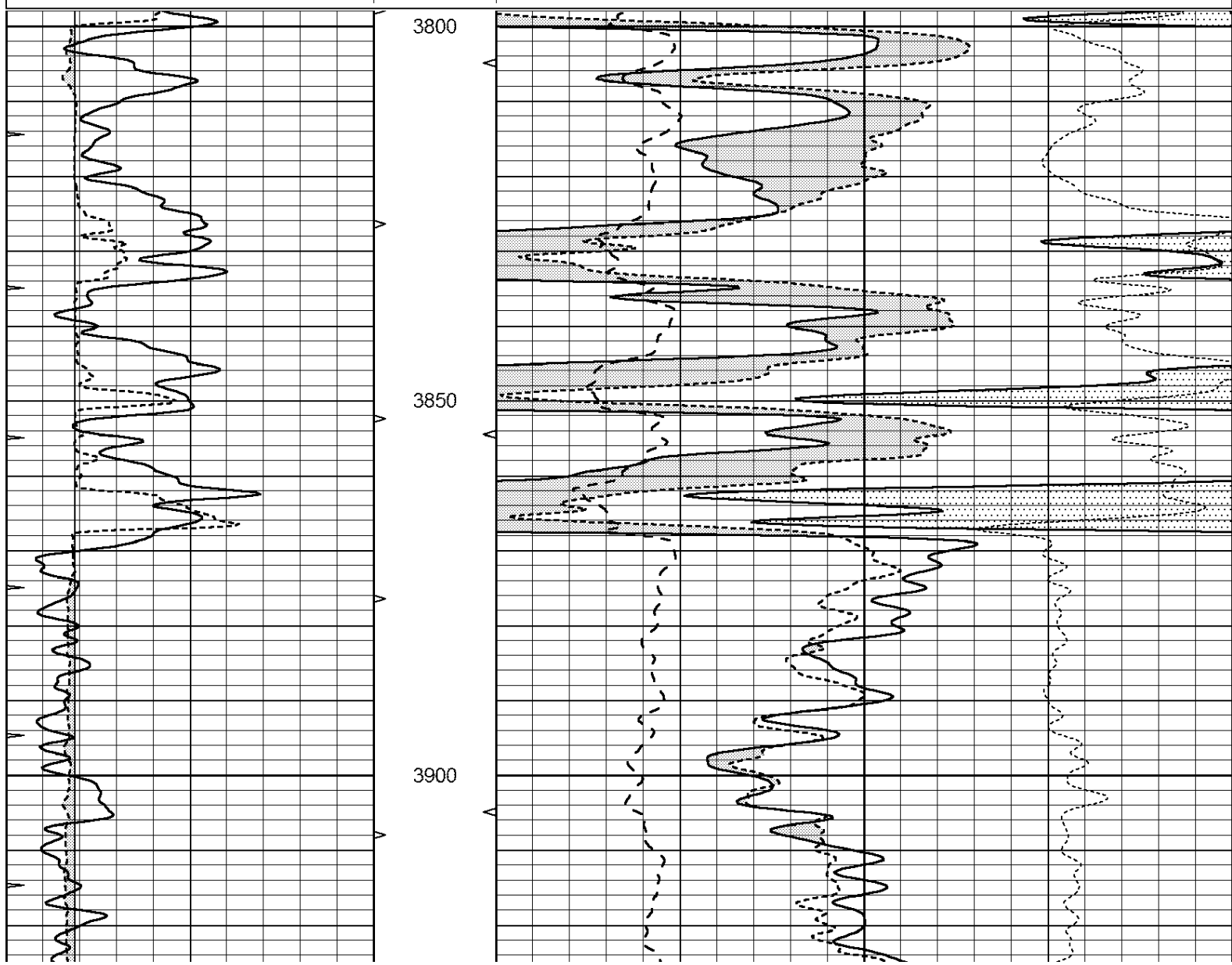


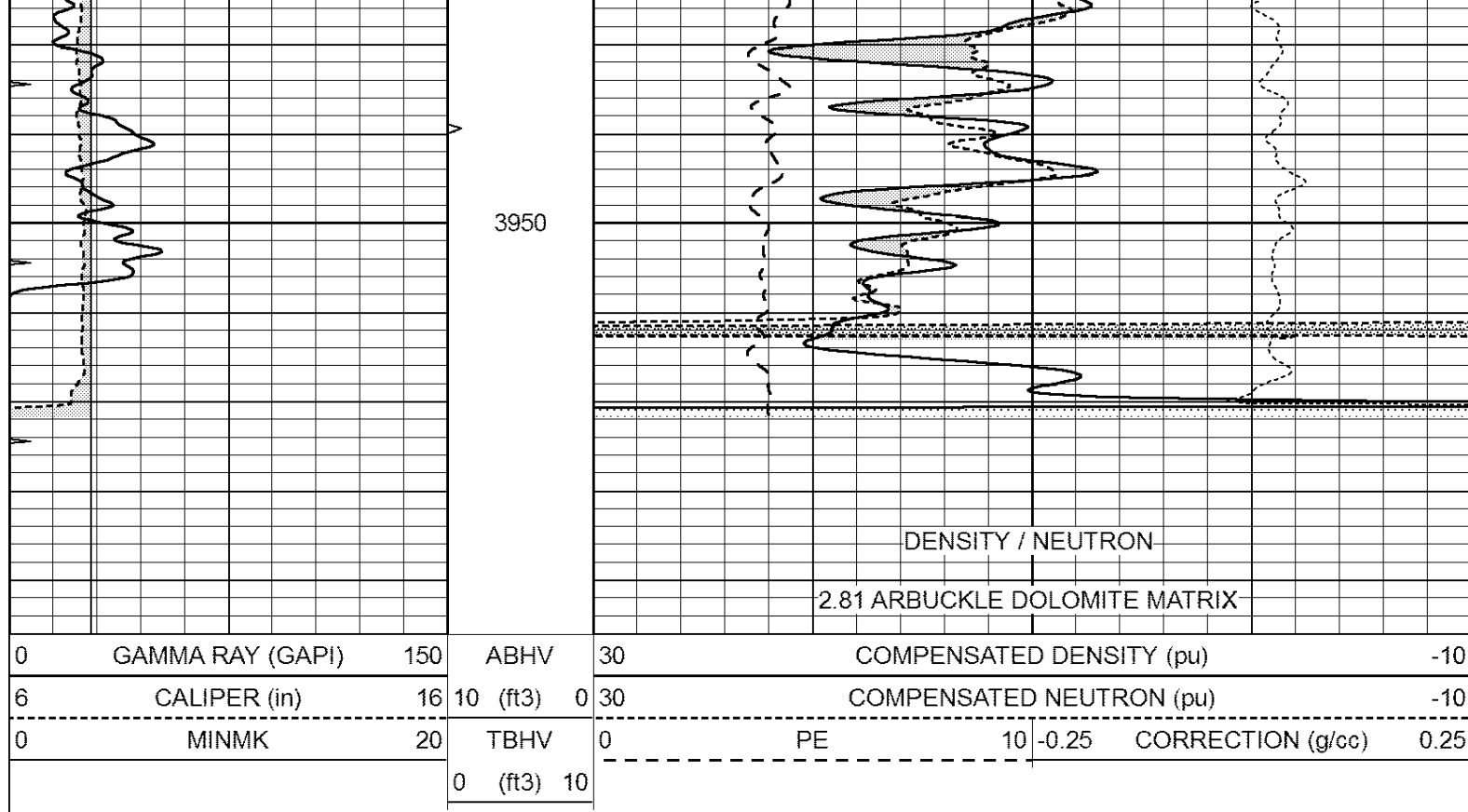
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DOLOMITE MATRIX

Database File: 006965pe.db
Dataset Pathname: pass5.7
Presentation Format: ldt_neu
Dataset Creation: Mon Jun 06 19:28:29 2011
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	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			





Calibration Report

Database File: 006965pe.db
 Dataset Pathname: pass6.6
 Dataset Creation: Mon Jun 06 20:23:06 2011 by Calc Open-Cased 110302

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
 Performed: Mon Jun 06 19:44:10 2011

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	8.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-8.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	622.059	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	631.393	-4.555

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	2.2	7.8			
High Ref	4.7	15.0			
	Gain: 2.9			Offset: 1.3	
Compensated Neutron Calibration Report					
		Serial Number:	NEU_4I		
		Tool Model:	G		
CALIBRATION					
	Detector	Readings	Target		Normalization
	Short Space	996.00 cps	1000.00 cps		1.0000
	Long Space	977.00 cps	1000.00 cps		1.0000
Gamma Ray Calibration Report					
	Serial Number:	GR4			
	Tool Model:	OPEN			
	Performed:	Mon Jun 06 18:49:23 2011			
	Calibrator Value:	200.0	GAPI		
	Background Reading:	0.0	cps		
	Calibrator Reading:	189.0	cps		
	Sensitivity:	6.5000	GAPI/cps		