



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company	CAPTIVA II, LLC.	Company	CAPTIVA II, LLC.
Well	EAKIN #5-7	Well	EAKIN #5-7
Field	LARNED WEST	Field	LARNED WEST
County	PAWNEE	County	PAWNEE
State	KANSAS	State	KANSAS
Location:	AP1 # : 15-145-21655-0000	Other Services	DIL/MEL SONIC
	883' FSL & 921' FEL		
	SEC 7 TWP 22S RGE 16W		
Permanent Datum	GROUND LEVEL	Elevation	2010
Log Measured From	KELLY BUSHING 11' A.G.L.		
Drilling Measured From	KELLY BUSHING		
Date	10/28/11		
Run Number	ONE		
Depth Driller	4050		
Depth Logger	4050		
Bottom Logged Interval	4026		
Top Log Interval	3000		
Casing Driller	8 5/8"@1026'		
Casing Logger	1024		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	7,800 PPM
Density / Viscosity	9.3/53		
pH / Fluid Loss	10.0/6.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.600@80F		
Rmt @ Meas. Temp	.450@80F		
Rmc @ Meas. Temp	.720@80F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.410@117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	9:00 A.M.		
Maximum Recorded Temperature	117F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	CHARLIE STURDAVANT		

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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 56 JUST PAST SECOND BRIDGE, 1/2S., W. INTO@TANK
BATTERY THEN S. ALONG RIVER

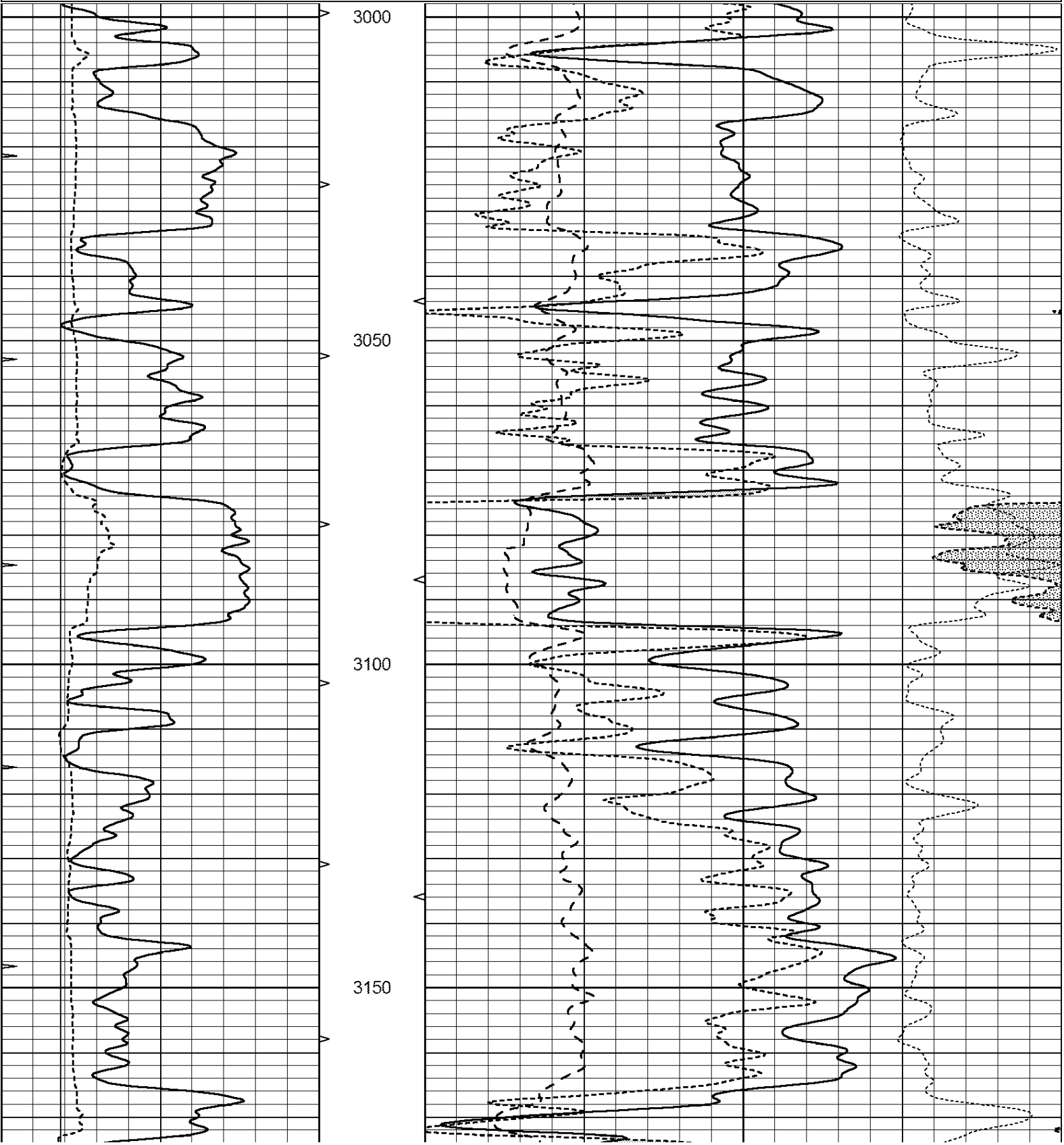


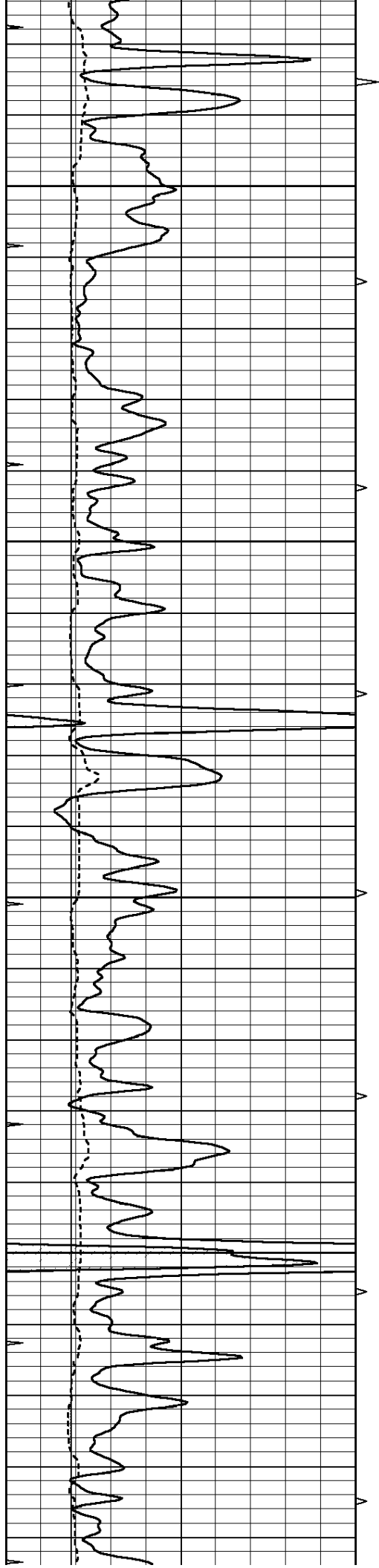
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MAIN SECTION

Database File: 007474pe.db
Dataset Pathname: pass3.6
Presentation Format: ldt_neu
Dataset Creation: Fri Oct 28 12:24:03 2011
Charted by: Depth in Feet scaled 1:240

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



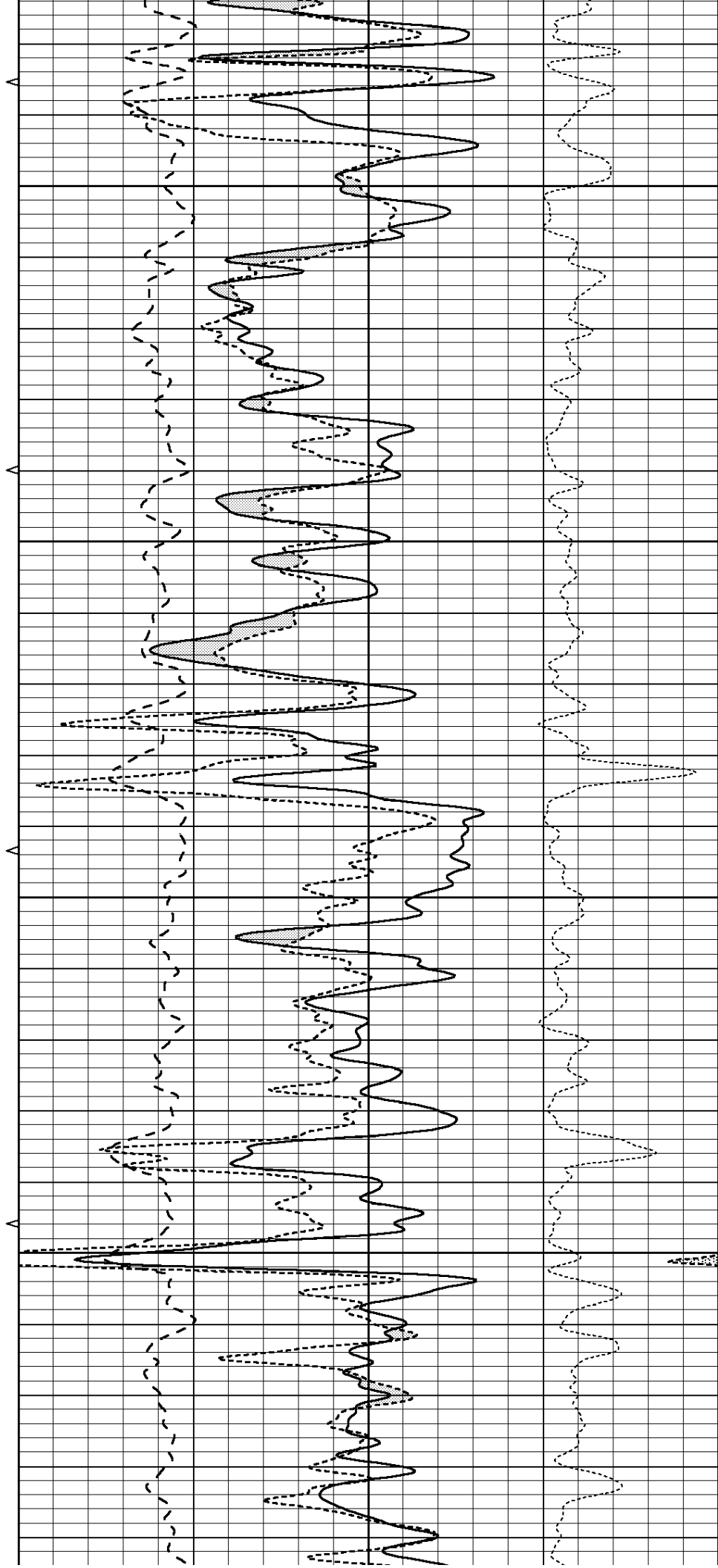


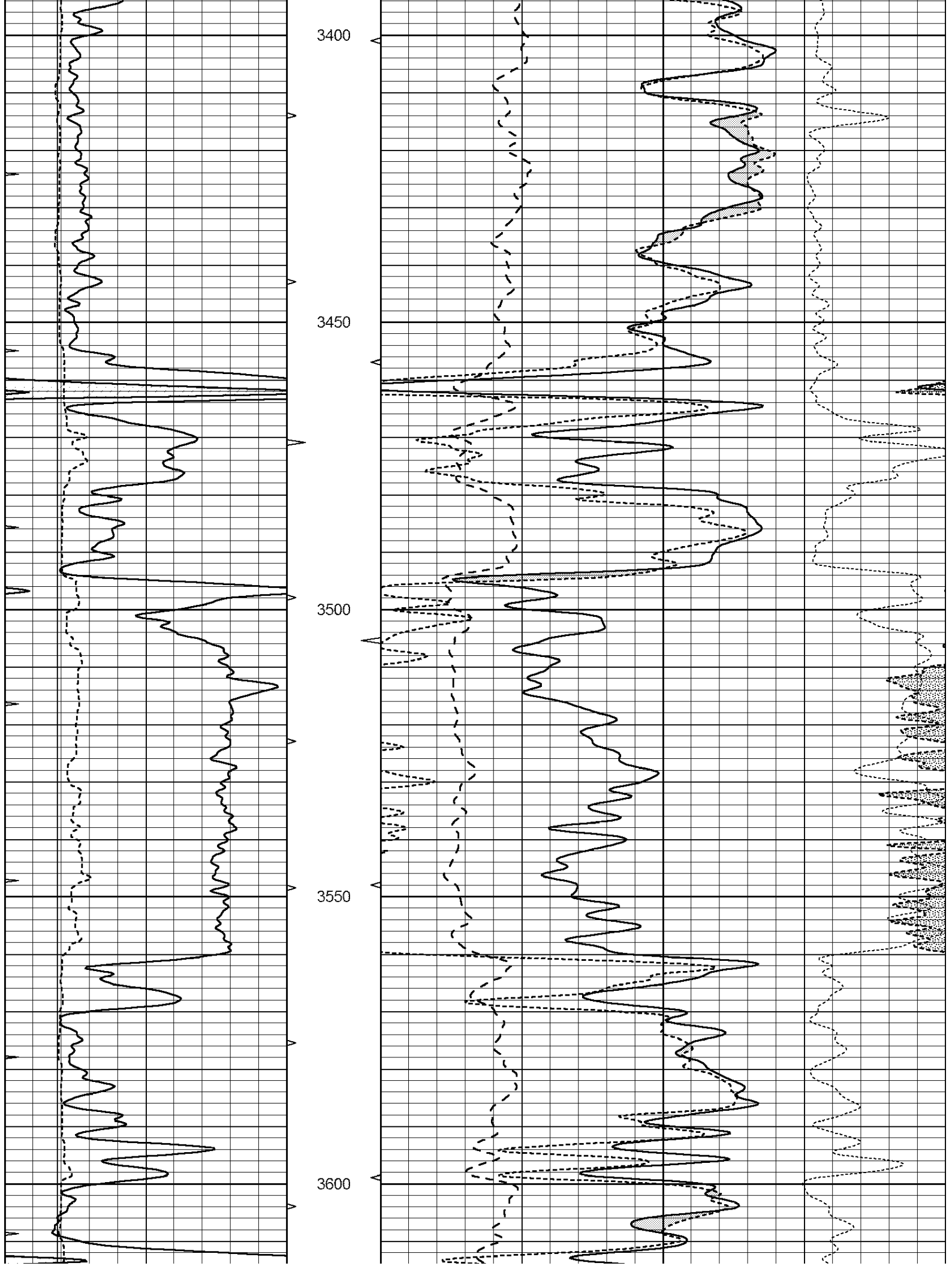
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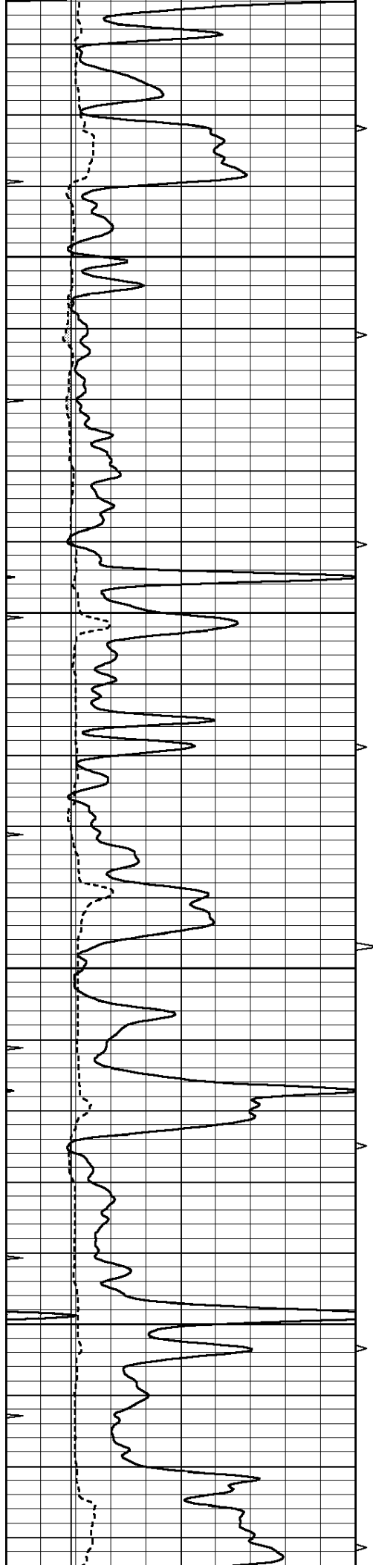
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3350





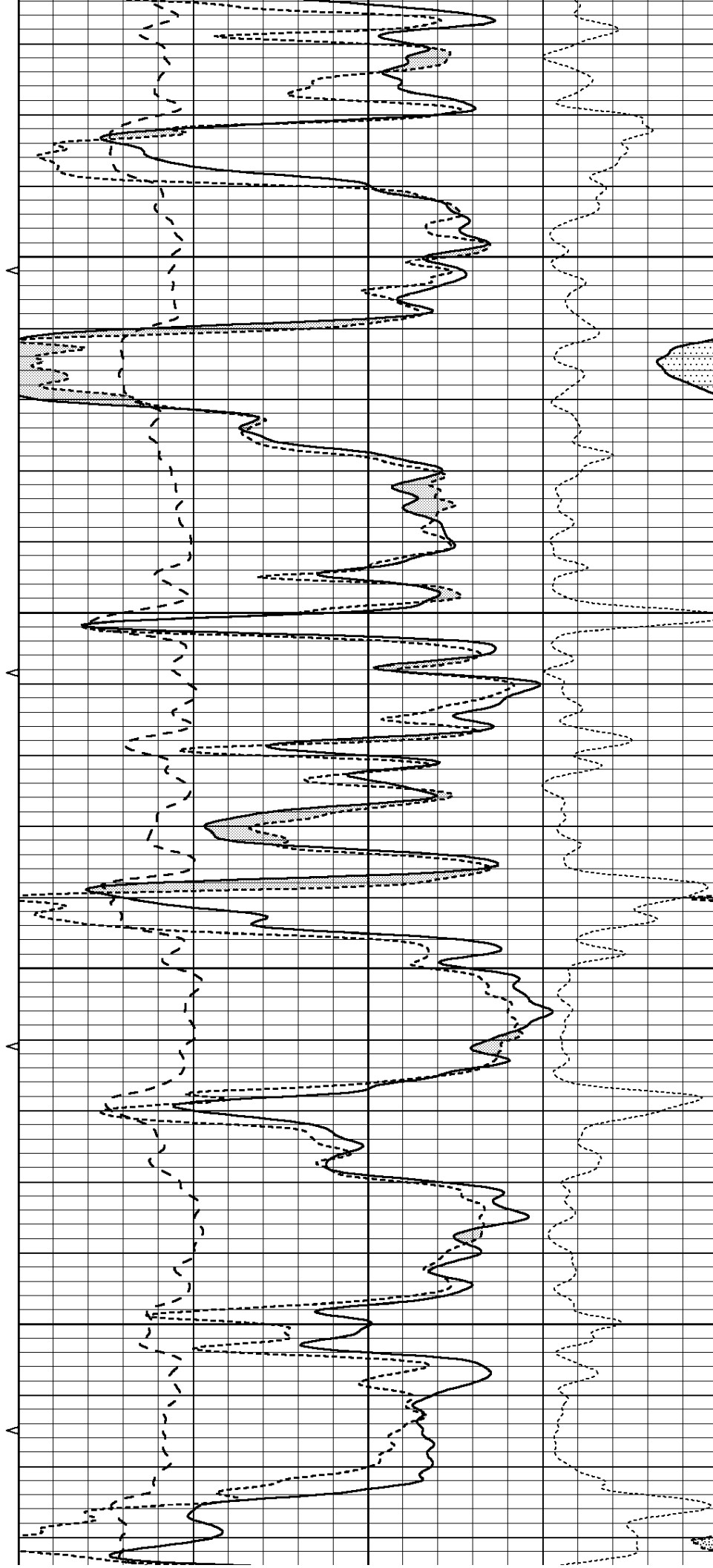


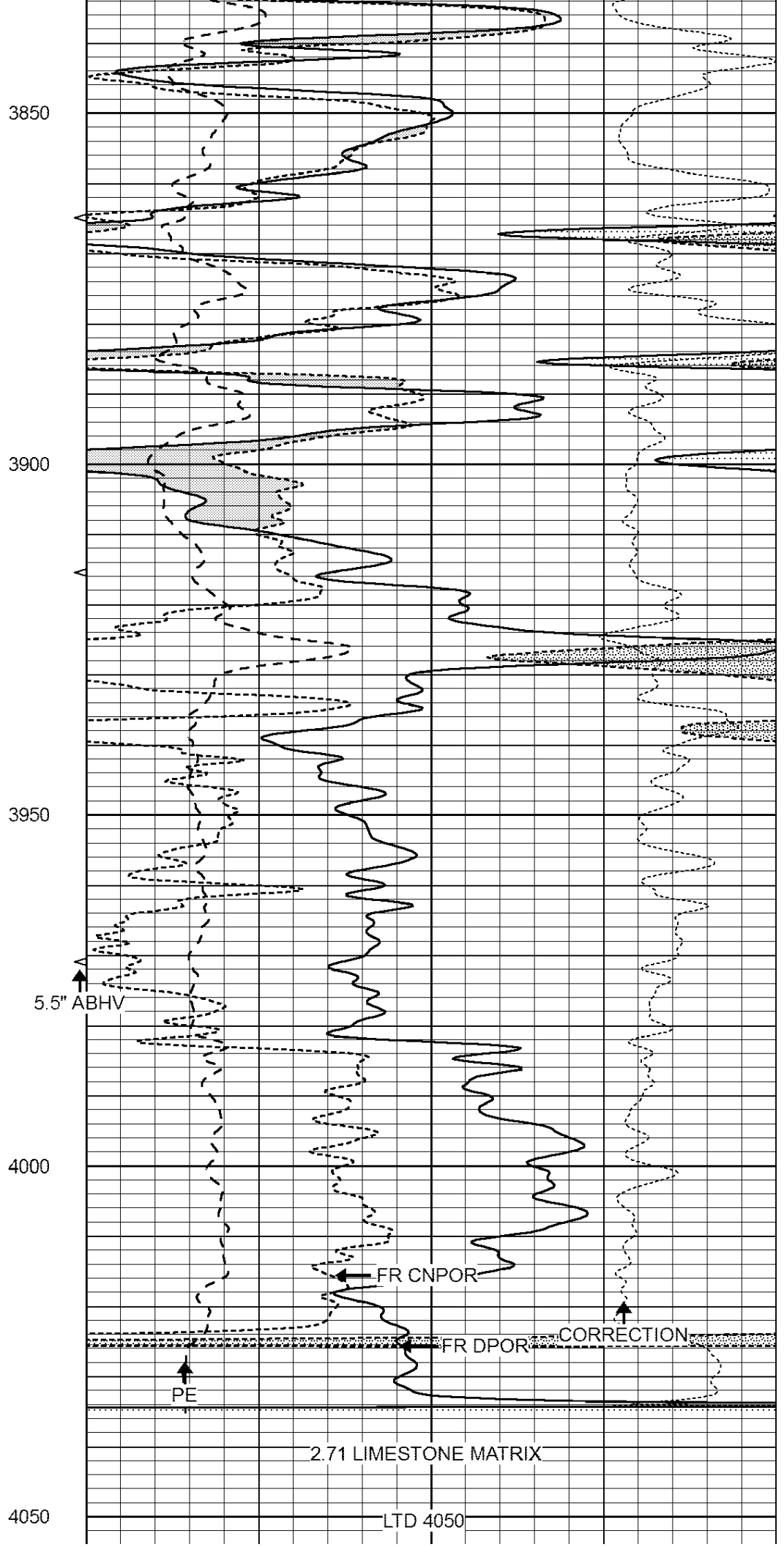
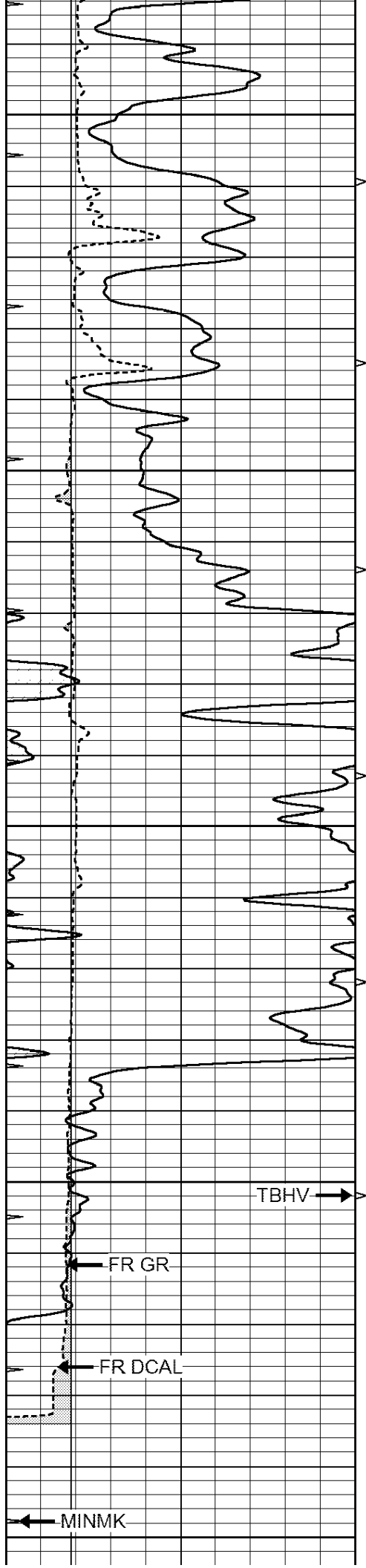
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3700

3750

3800





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

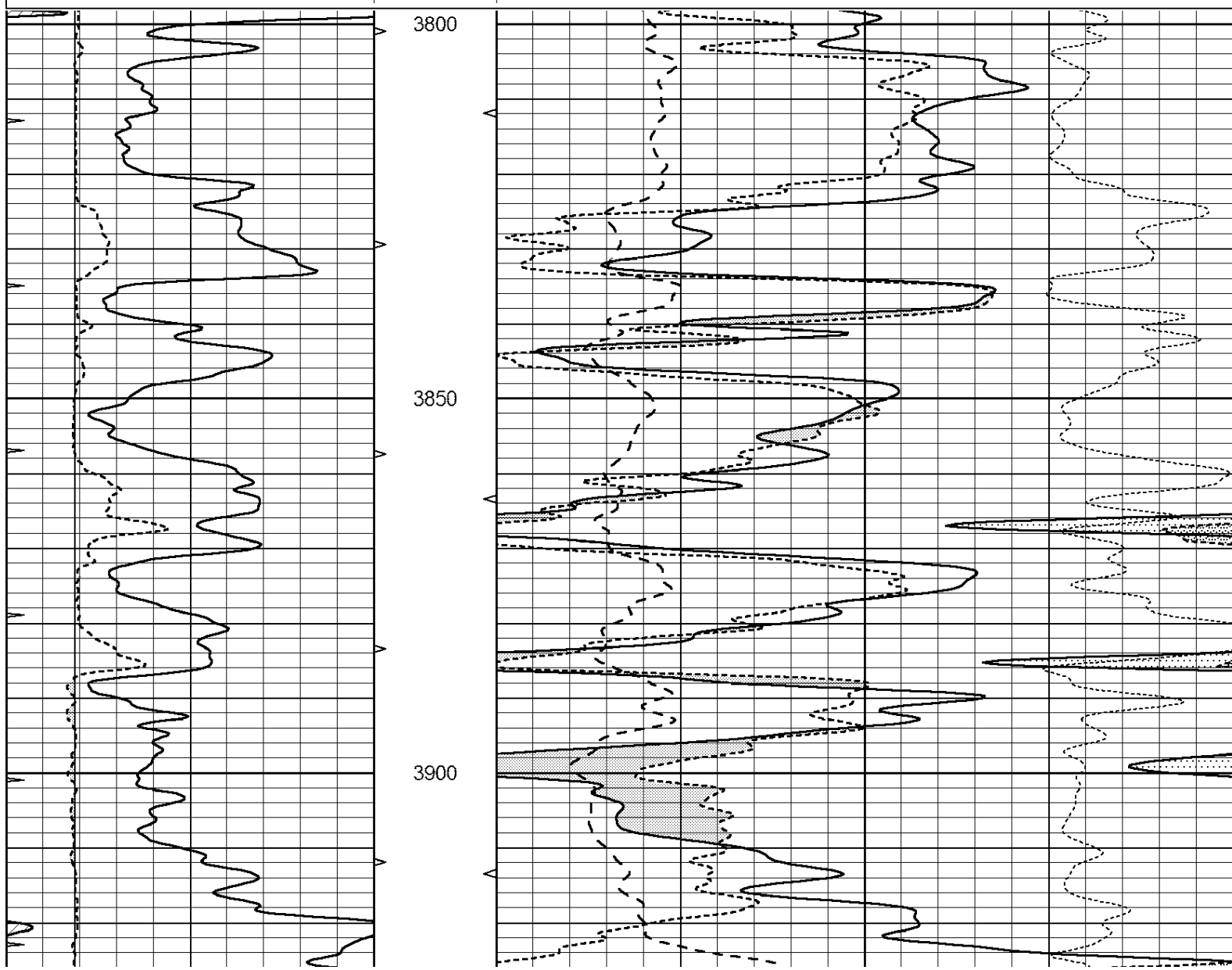


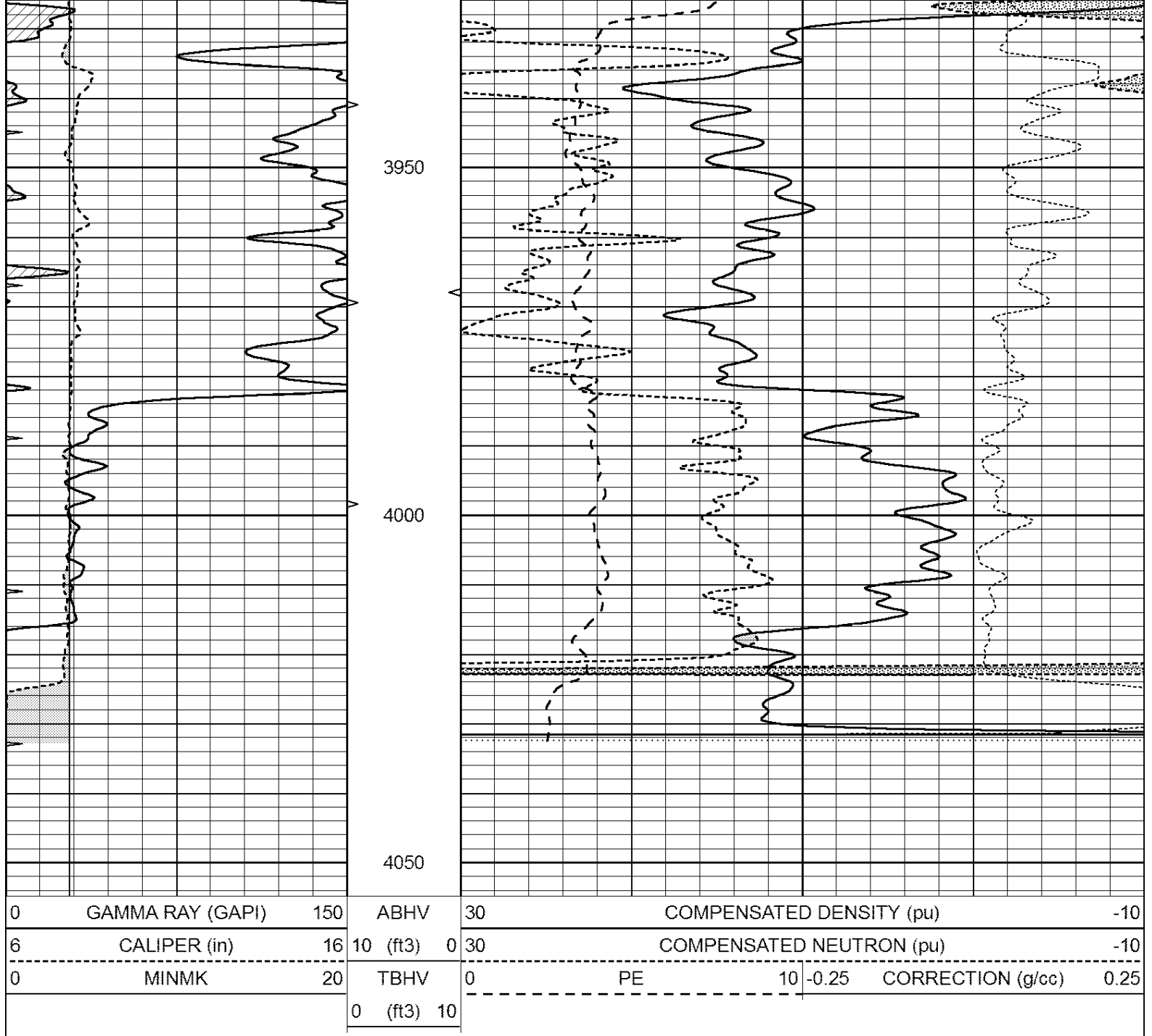
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REPEAT SECTION

Database File: 007474pe.db
Dataset Pathname: pass2.8
Presentation Format: ldt_neu
Dataset Creation: Fri Oct 28 10:11:39 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	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			

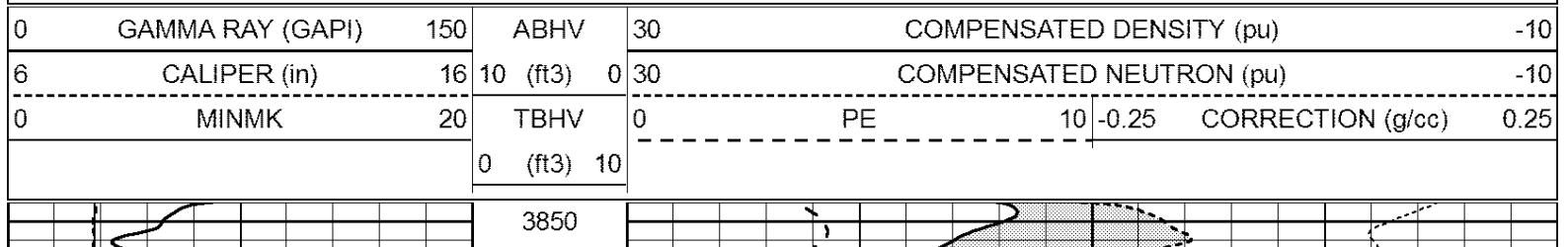


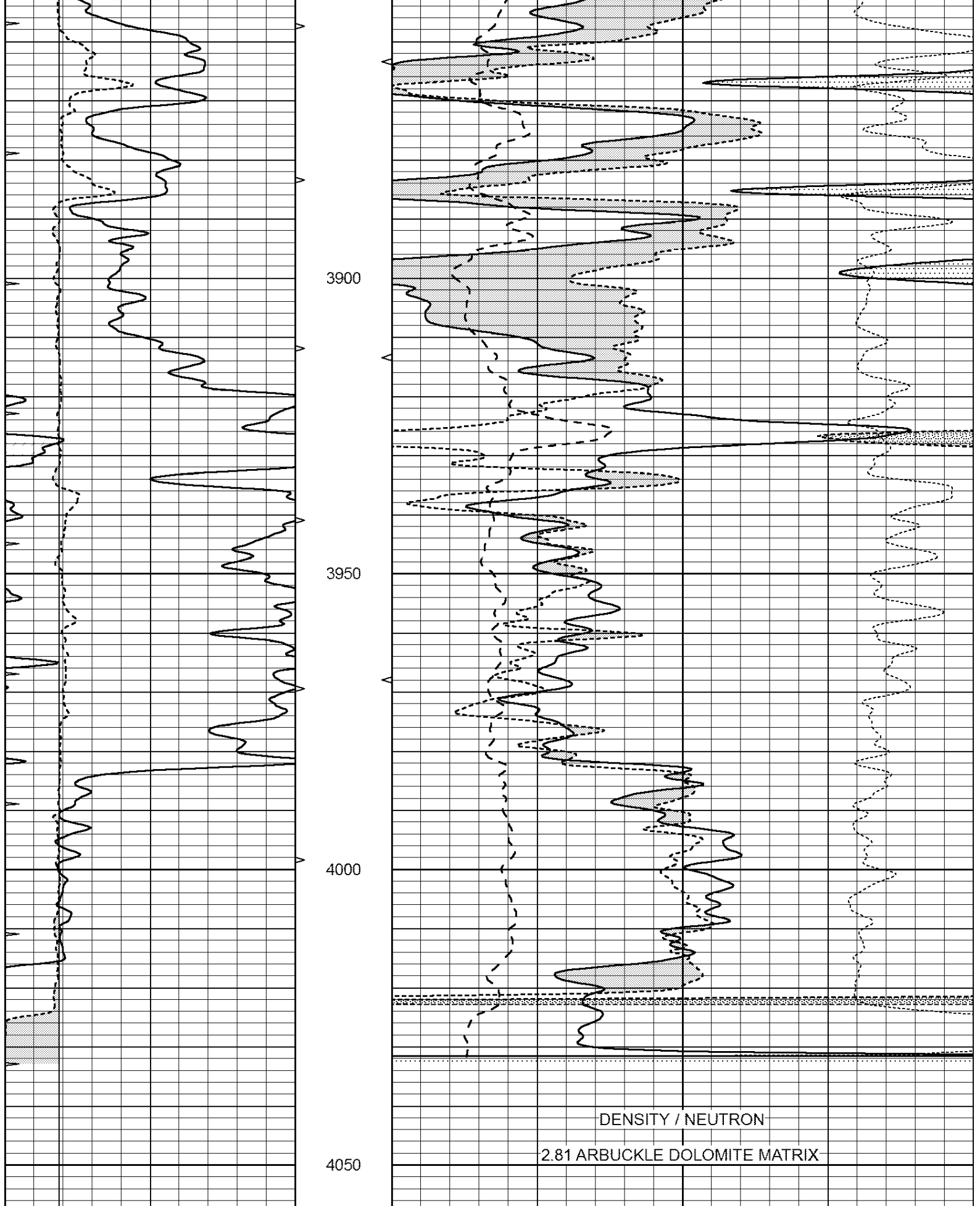


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DOLOMITE MATRIX

Database File: 007474pe.db
Dataset Pathname: pass2.10
Presentation Format: ldt_neu
Dataset Creation: Fri Oct 28 10:59:34 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	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10
					-0.25	CORRECTION (g/cc)
					0.25	

Calibration Report

Database File: 007474pe.db
 Dataset Pathname: pass3.6
 Dataset Creation: Fri Oct 28 12:24:03 2011

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
 Performed: Fri Oct 28 05:52:34 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	4.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-9.000
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: 006 Model: PRB
 Performed Sun Aug 15 09:48:41 2010

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1686.6	11612.8	3932.0	12718.8	cps
Window 2	1531.4	9204.7	3267.8	9851.9	cps
Window 3	1198.3	4733.6	1952.5	4920.6	cps
Window 4	317.3	321.2	325.9	303.6	cps
Long Space	0.0	7673.3	1736.4	8320.4	cps
Short Space	1.7	2548.5	1657.2	2628.8	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 43.8	Rib Slope	: 0.961	Density/Spine Ratio	: 0.569
Spine Angle	: 73.8	Spine Slope	: 3.453	Spine Intercept	: -18.1

Caliper

	Readings	Reference
Low Ref	4.0	8.3
High Ref	5.9	15.0
Gain: 3.5		Offset: -5.5

Compensated Neutron Calibration Report

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:	Fri Oct 28 05:51:52 2011			
Calibrator Value:	1.0	GAPI		
Background Reading:	0.0	cps		
Calibrator Reading:	1.0	cps		
Sensitivity:	0.2500	GAPI/cps		