



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company LARIO OIL & GAS COMPANY
Well KREBS CREDIT SHELTER #1-36
Field WILDCAT
County LOGAN
State KANSAS

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County LOGAN State KANSAS

Location: API #: 15-109-20876
2003 FNL & 1353 FEL
SEC 36 TWP 14S RGE 32W
Permanent Datum GROUND LEVEL Elevation 2664
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL
SONIC/MEL
Elevation
K.B. 2669
D.F.
G.L. 2664

Date	2-4-10		
Run Number	ONE		
Depth Driller	4414		
Depth Logger	4412		
Bottom Logged Interval	4388		
Top Log Interval	3200		
Casing Driller	263		
Casing Logger	NA		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.2 / 53		
pH / Fluid Loss	10.0 / 8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.70 @ 80F		
Rinf @ Meas. Temp	0.53 @ 80F		
Rmc @ Meas. Temp	0.84 @ 80F		
Source of Rinf / Rmc	FLOWLINE		
Rim @ BHT	.470 @ 119F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	10:45 P.M.		
Maximum Recorded Temperature	119F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	VERN SCHRAG		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: OAKLEY, 22S, INTO AT STEEL GATE, 2E.

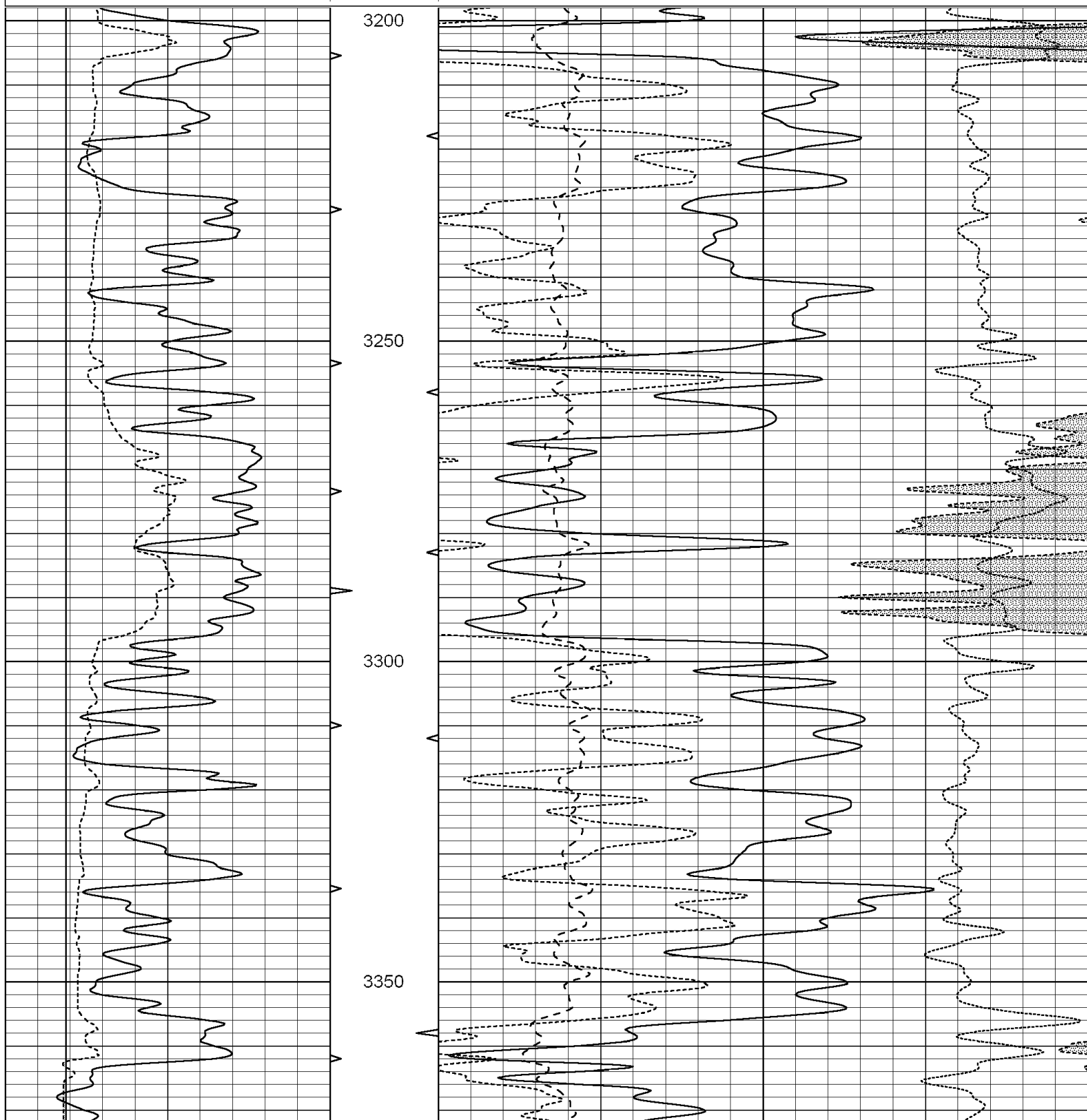


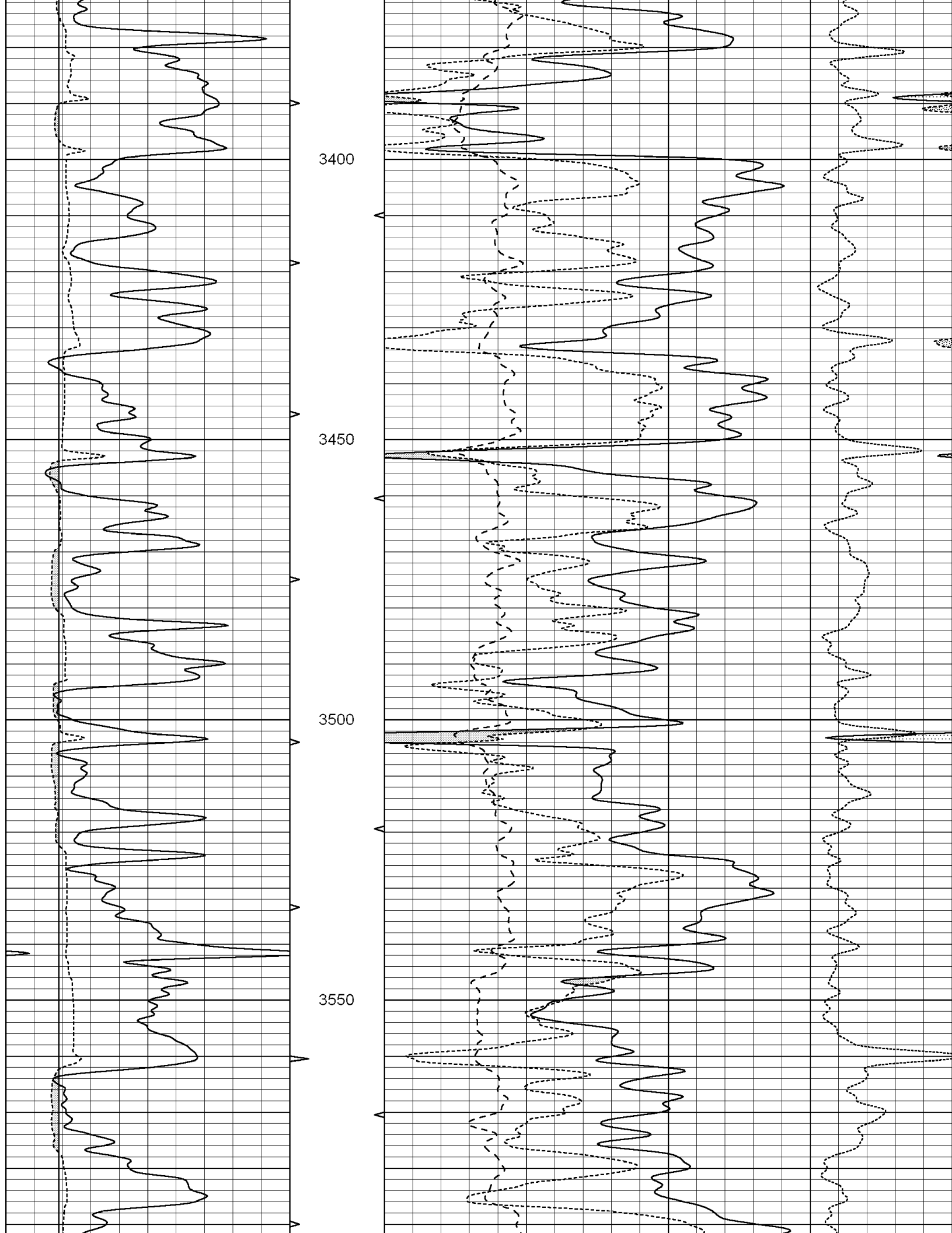
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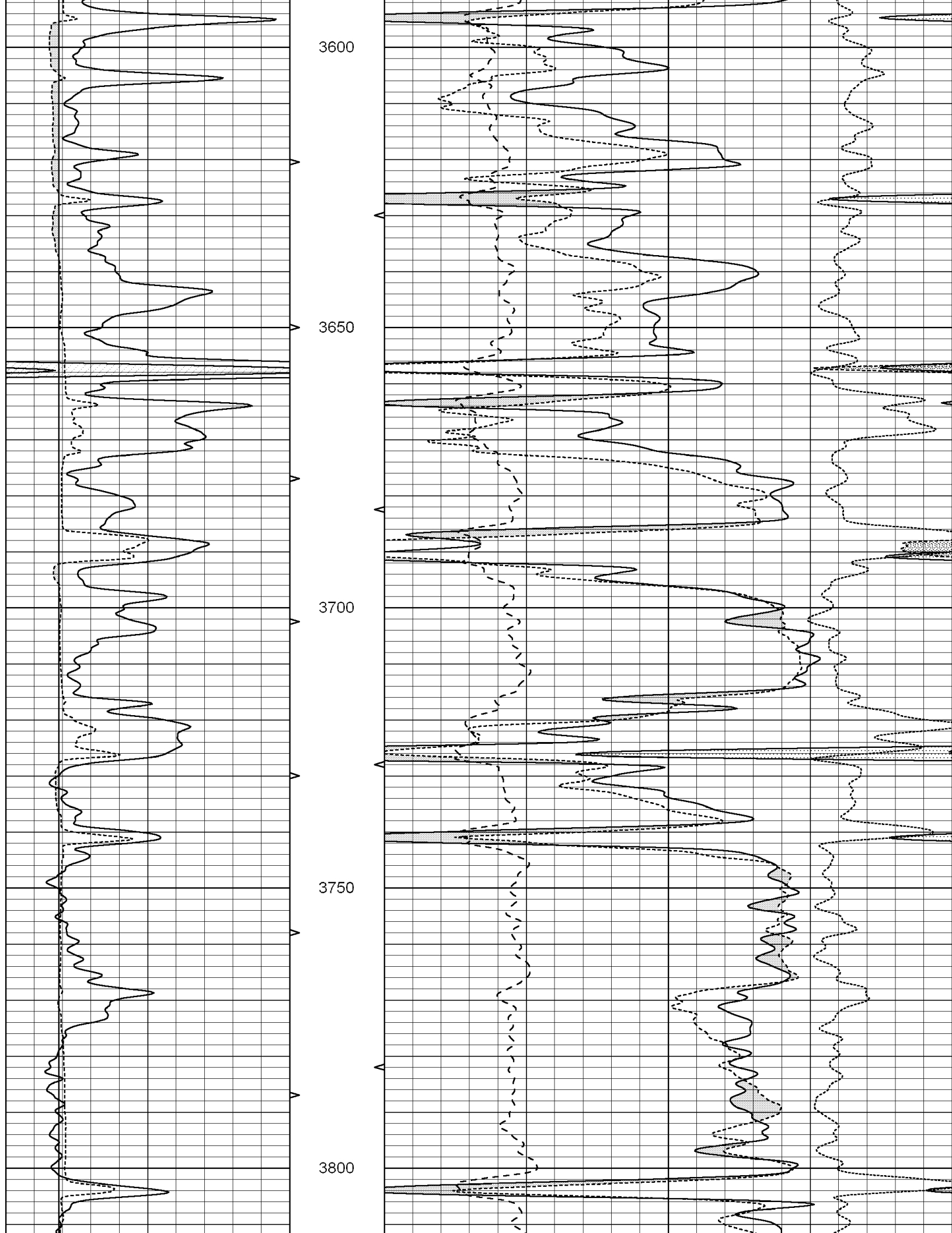
MAIN SECTION

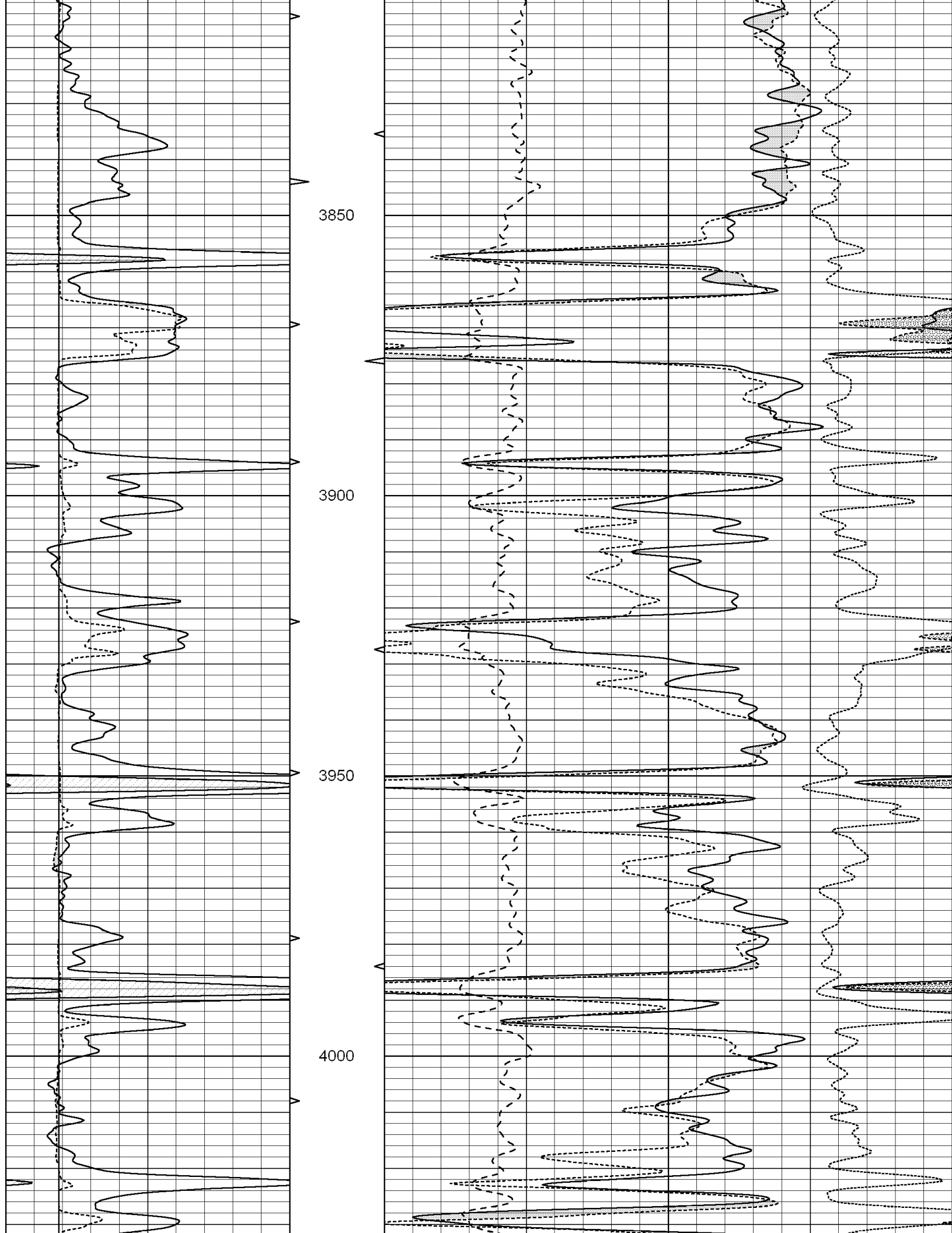
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Dataset Pathname: pass3.1
Presentation Format: ldt_neu
Dataset Creation: Thu Feb 04 00:09:55 2010 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

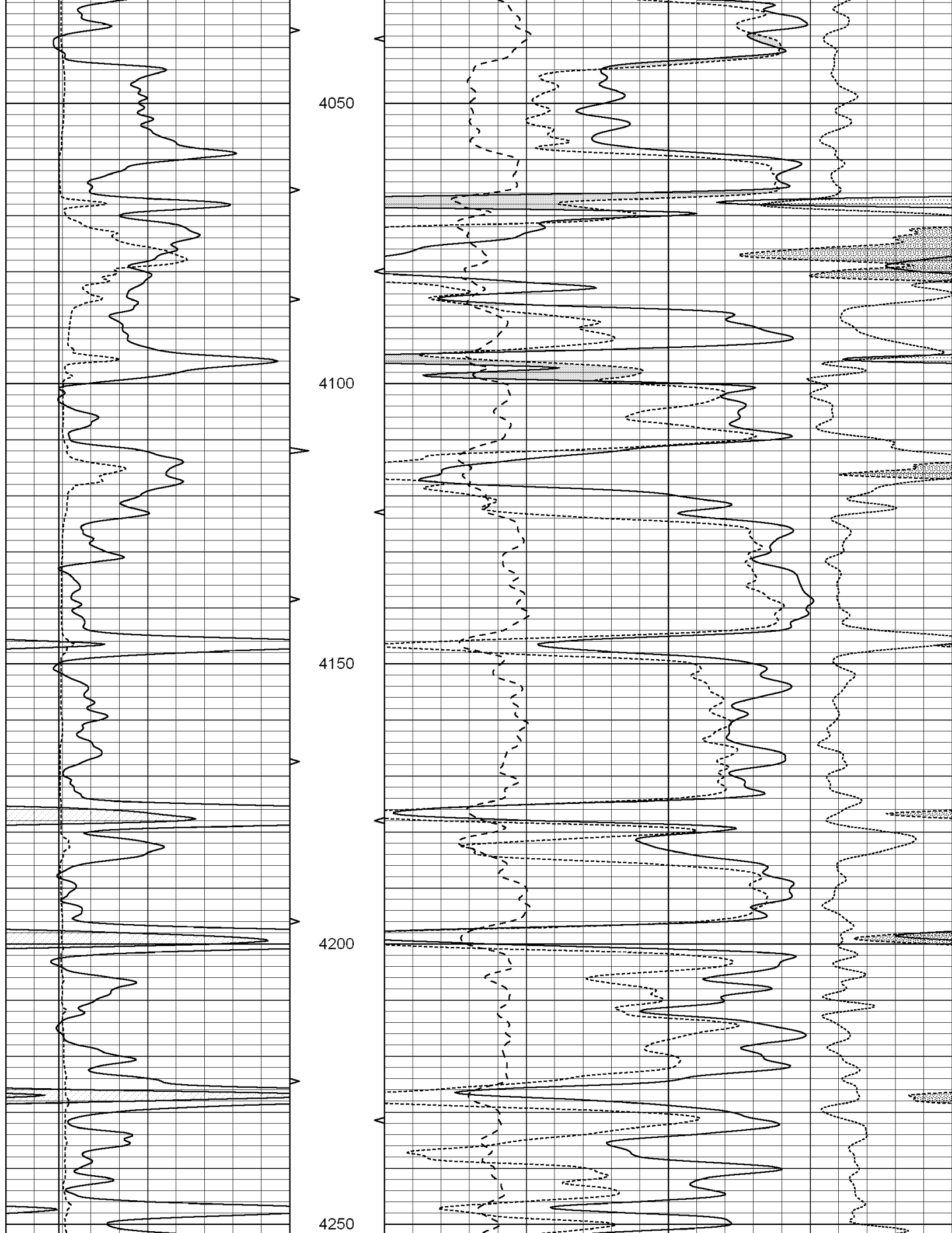
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10 -0.25
			0 (ft3) 10	CORRECTION (g/cc) 0.25		

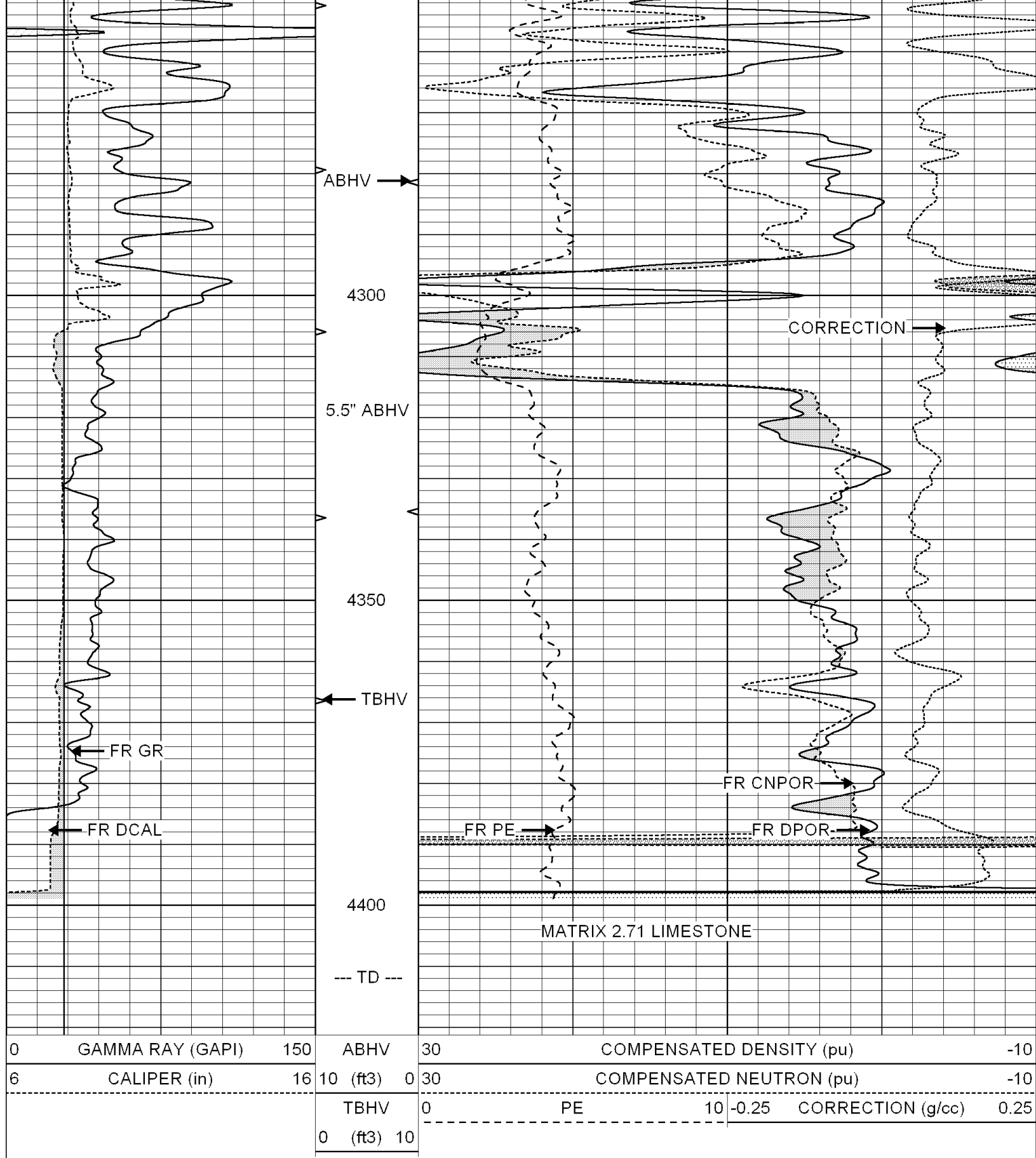










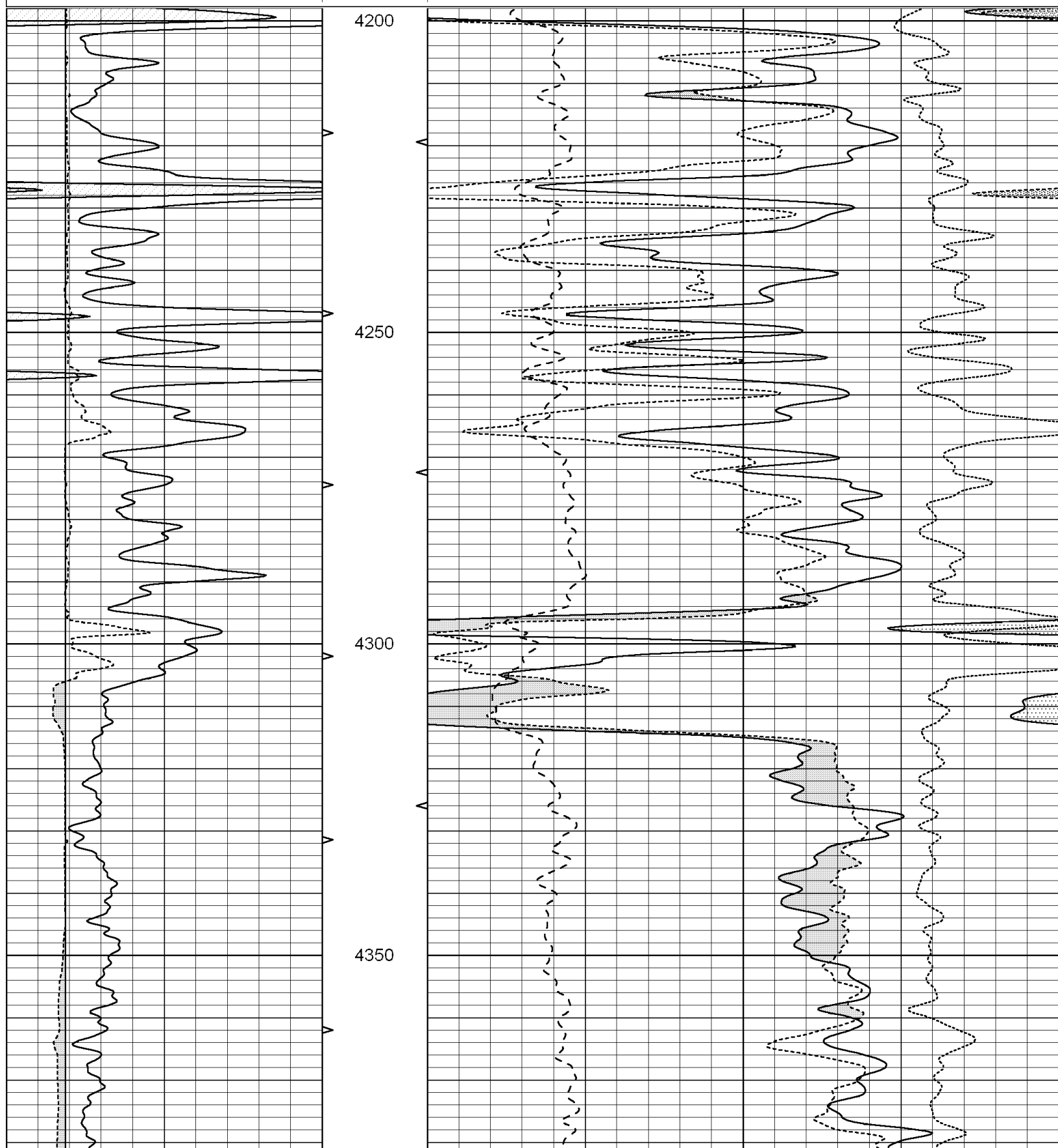


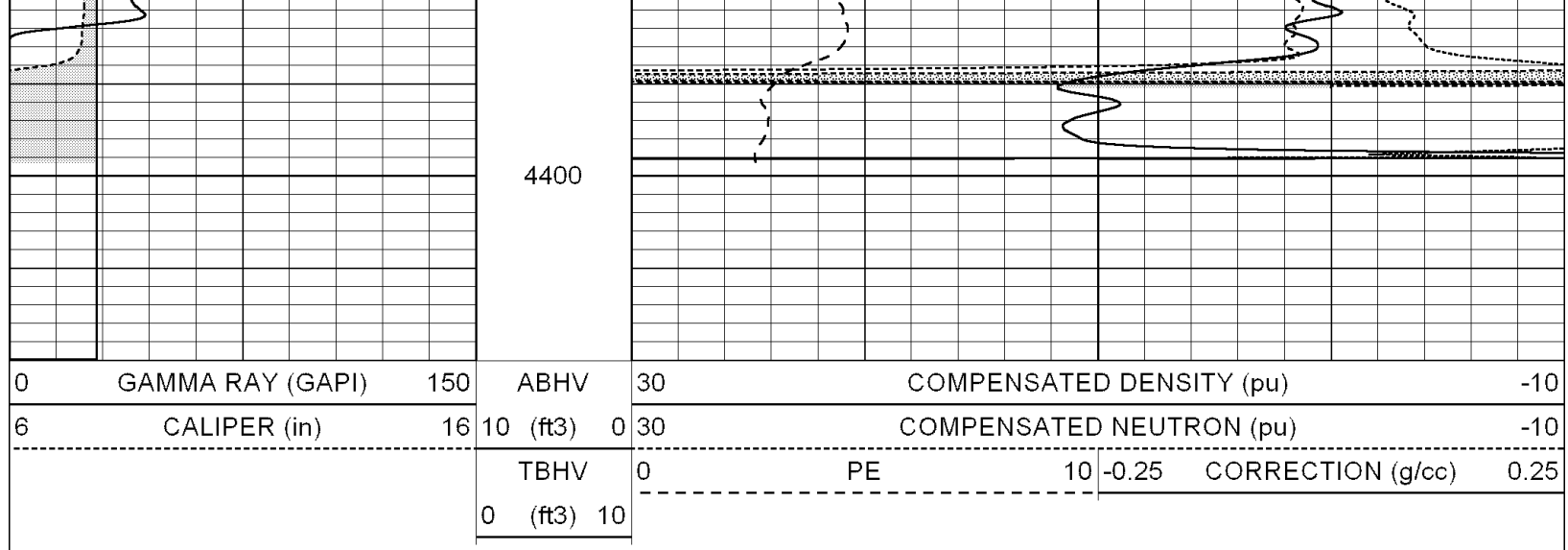
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REPEAT SECTION

Database File: 004700pdm.db
Dataset Pathname: pass2.1A
Presentation Format: ldt_neu
Dataset Creation: Thu Feb 04 00:46:44 2010
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
			TBHV	0	PE	10	-0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10				





Calibration Report

Database File: 004793pdn.db
Dataset Pathname: pass3.1
Dataset Creation: Thu Feb 04 00:09:55 2010 by Calc Open-Cased 090629

Dual Induction Calibration Report								
Serial-Model: Performed:			DIL5-GEAR Wed Feb 03 22:48:03 2010					
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	550.000	-2.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	540.000	-5.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Litho Density Calibration Report
Serial: 002 Model: PRB
Performed Tue Jul 03 11:12:28 2007

Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	1059.5	9172.0	2859.6	10210.6	cps
Window 2	976.0	7793.2	2486.1	8515.6	cps
Window 3	689.8	2930.5	1159.0	3096.2	cps
Window 4	231.9	237.2	231.1	234.0	cps
Long Space	0.0	6817.1	1510.1	7539.6	cps
Short Space	1.6	1758.1	1188.6	1898.8	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.4	Rib Slope	: 1.015	Density/Spine Ratio	: 0.569
Spine Angle	: 75.4	Spine Slope	: 3.850	Spine Intercept	: -19.9

Caliper		
Low Ref	Readings	Reference
High Ref	2.8	8.2
	4.8	14.0
	Gain: 2.9	Offset: 0.3

Compensated Neutron Calibration Report						
Serial Number:			NEU_1I			
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:		GR5				
Tool Model:		OPEN				
Performed:		Tue Feb 02 10:33:27 2010				
Calibrator Value:		1.0	GAPI			
Background Reading:		0.0	cps			
Calibrator Reading:		1.0	cps			
Sensitivity:		0.6000	GAPI/cps			