



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company		MULL DRILLING COMPANY, INC.	
Well		#1-6 STEVE	
Field		WILDCAT	
County		NESS	
State		KANSAS	
Location:		API # : 15-135-25335-0000	
SEC 6 TWP 17S RGE 23W		DIL/MEL SONIC	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 5' A.G.L.	
Drilling Measured From		KELLY BUSHING	
Elevation		2492	
K.B. 2497			
D.F. 2495			
G.L. 2492			
Date	1/26/12		
Run Number	ONE		
Depth Driller	4600		
Depth Logger	4600		
Bottom Logged Interval	4576		
Top Log Interval	3700		
Casing Driller	8 5/8"@222'		
Casing Logger	223		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,800 PPM	
Density / Viscosity	9.4/46		
pH / Fluid Loss	9.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.750@80F		
Rmt @ Meas. Temp	.563@80F		
Rmc @ Meas. Temp	.900@80F		
Source of Rmt / Rmc	MEASUREMENT		
Rm @ BHT	.496@121F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	11:30 P.M.		
Maximum Recorded Temperature	121F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEVIN KESSLER		

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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
RANSOM, KS. (JUNCTION OF HWY 4 & 283) 2 1/4S. ON HWY 283, W. INTO

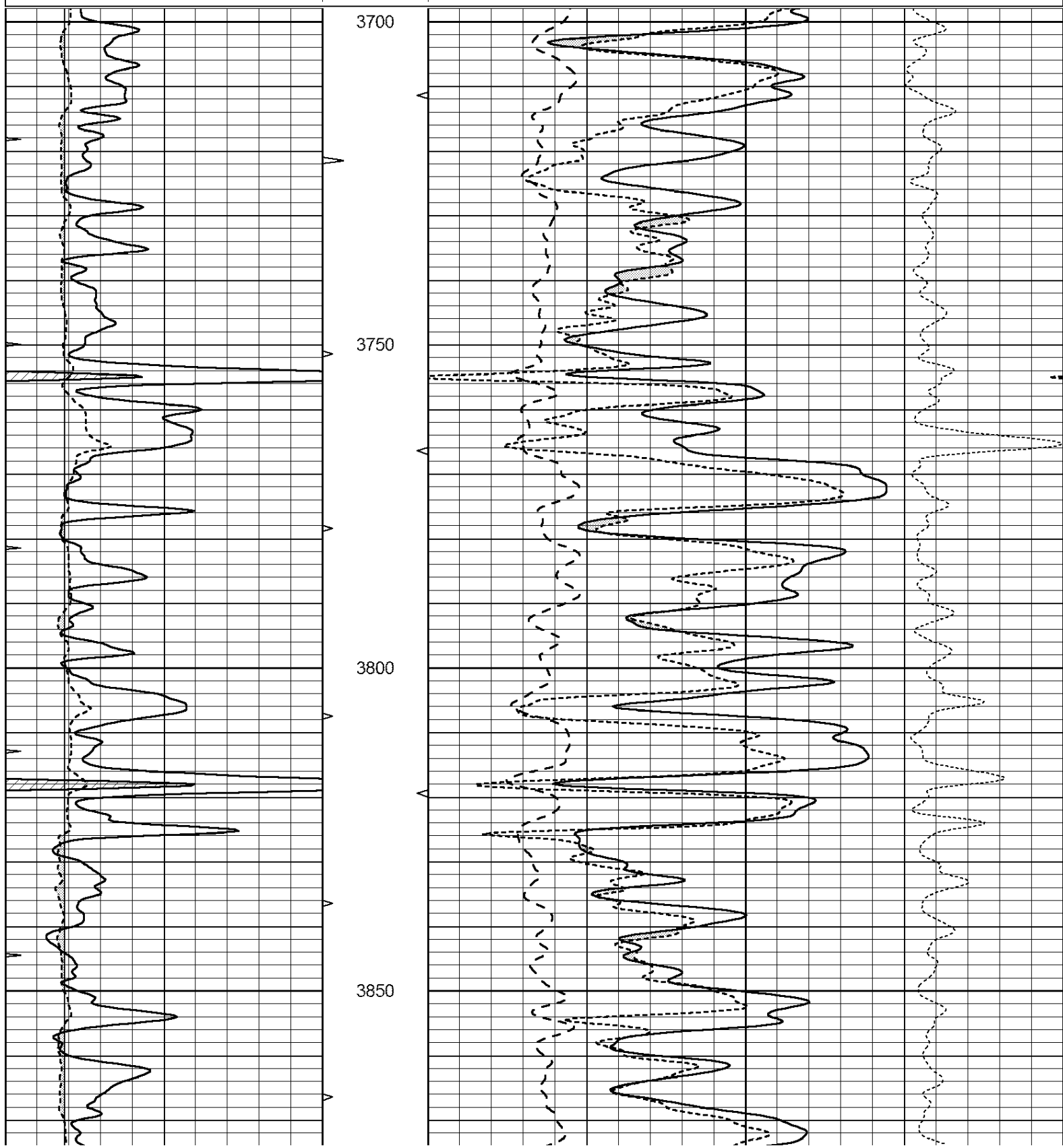


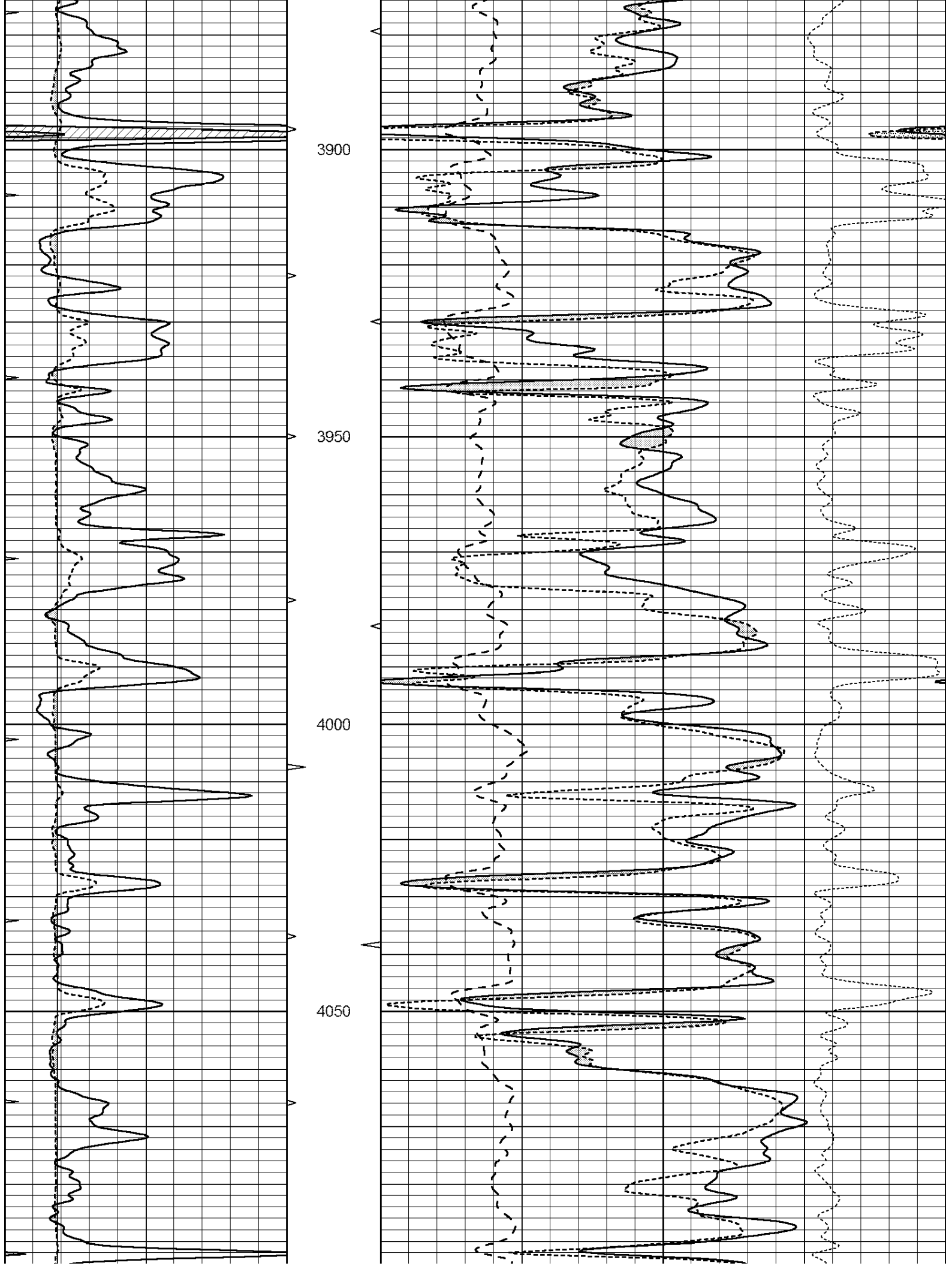
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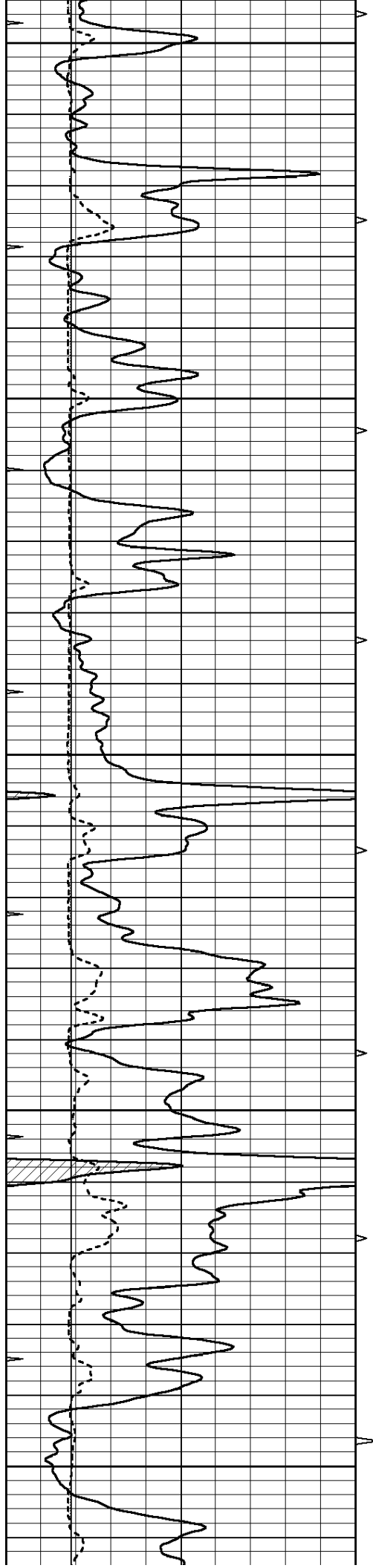
MAIN SECTION

Database File: 008148pe.db
Dataset Pathname: pass3.4
Presentation Format: ldt_neu
Dataset Creation: Thu Jan 26 00:58:19 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	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		







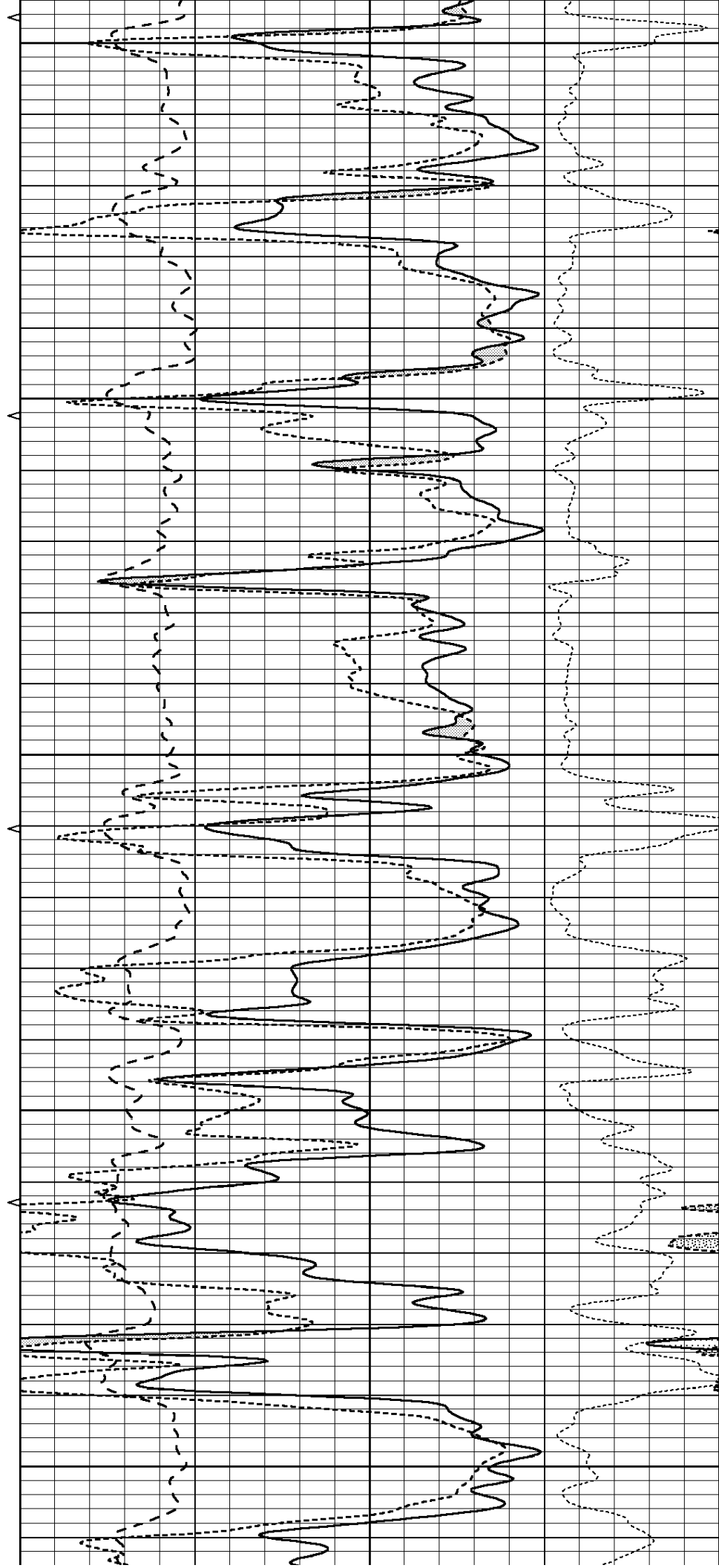
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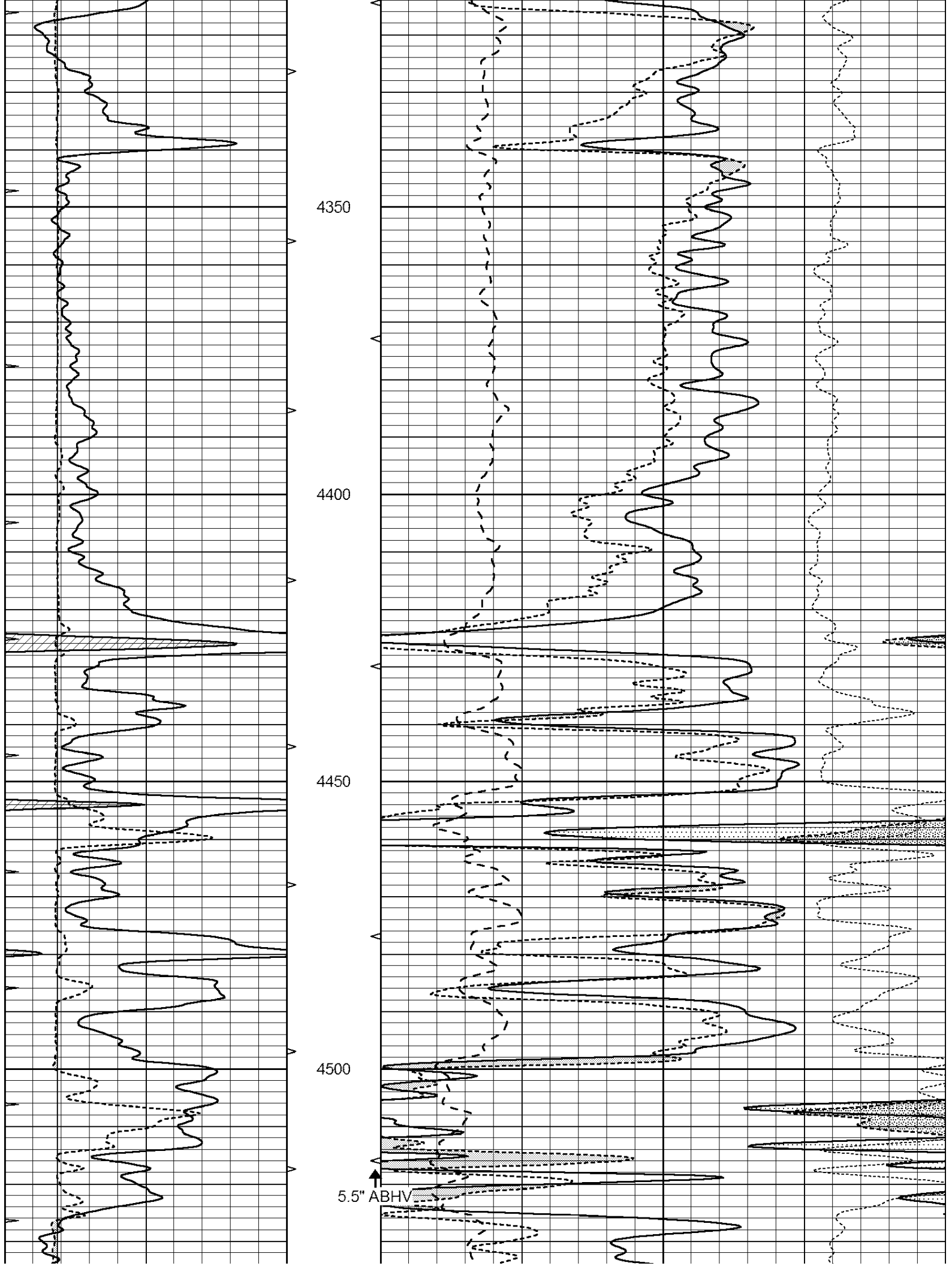
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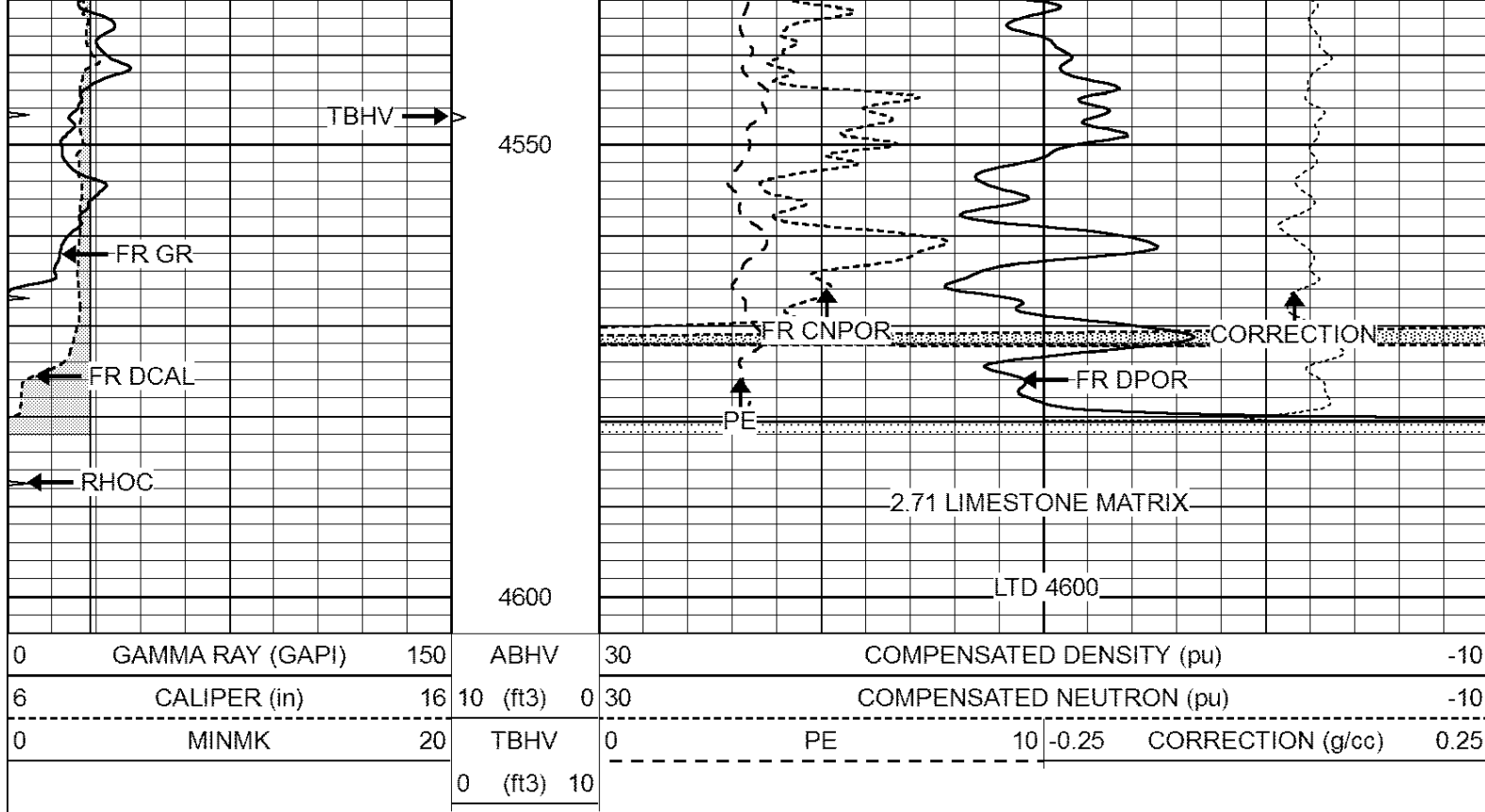
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4300





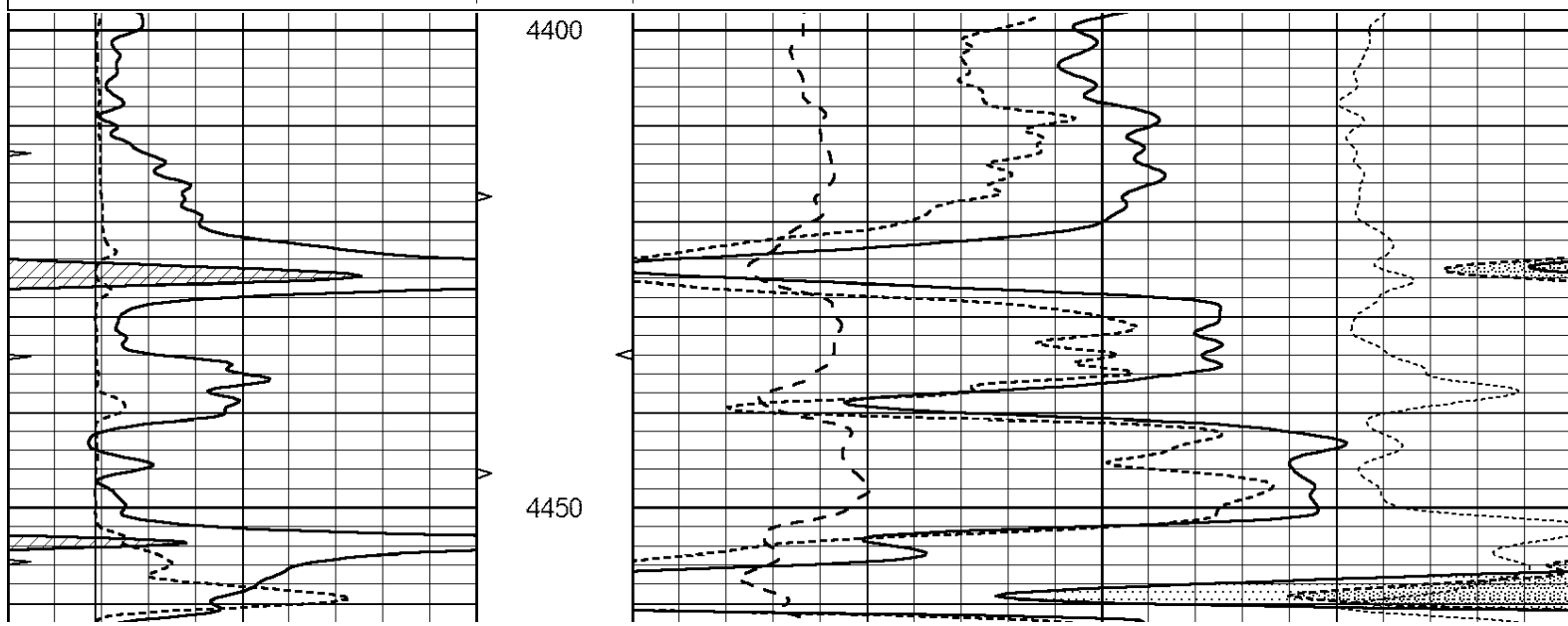


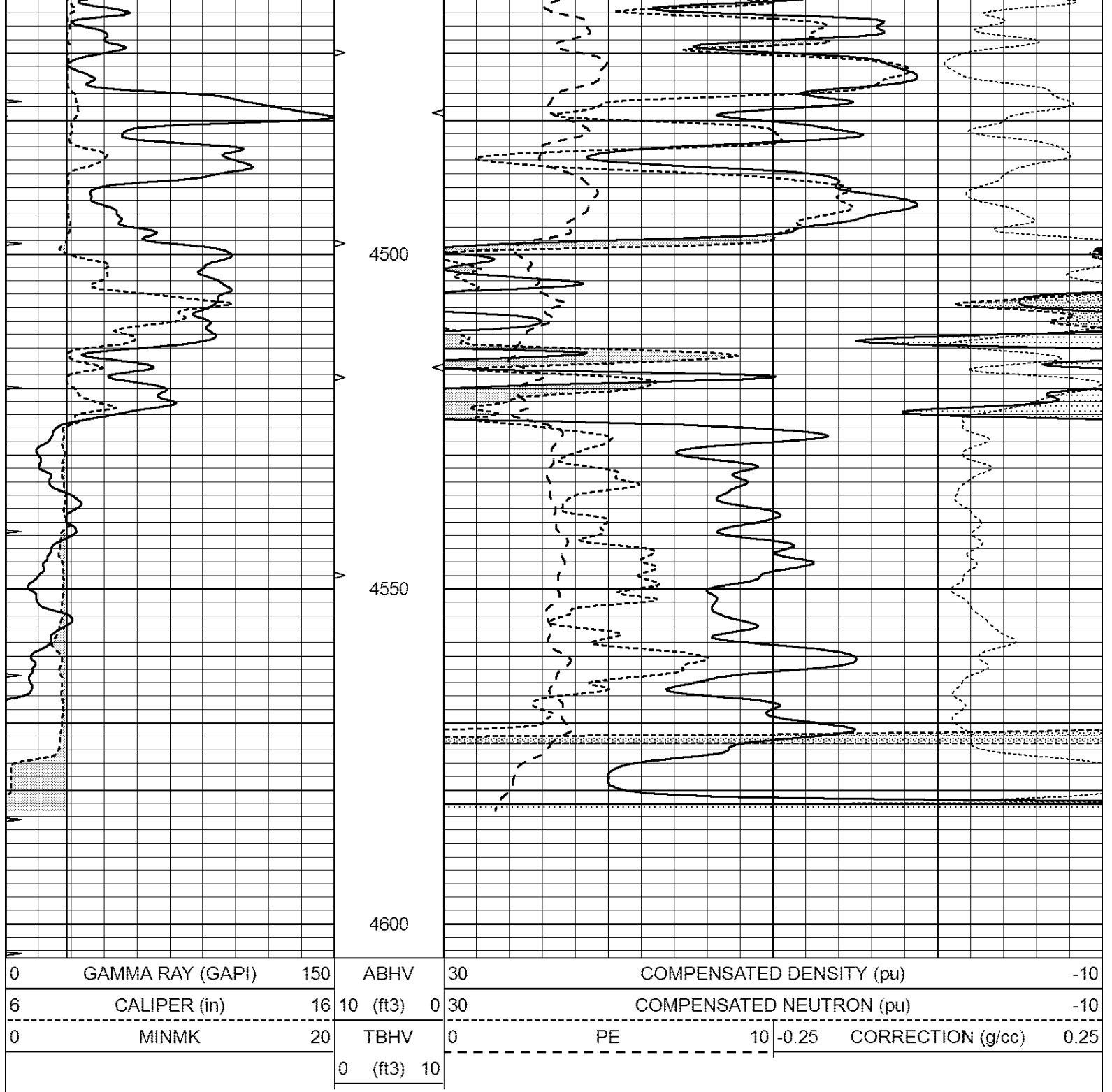
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REPEAT SECTION

Database File: 008148pe.db
 Dataset Pathname: pass2.3
 Presentation Format: ldt_neu
 Dataset Creation: Wed Jan 25 23:33:03 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	PE	10	-0.25	CORRECTION (g/cc)		0.25
			0	(ft3)	10						





Calibration Report

Database File: 008148pe.db
 Dataset Pathname: pass3.4
 Dataset Creation: Thu Jan 26 00:58:19 2012 by Calc Open-Cased 110302

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
 Performed: Mon Jan 23 12:20:15 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	6.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-5.500

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	8.2						
High Ref	5.9	15.0						
	Gain: 3.5			Offset: -5.8				
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:	Wed Jan 25 15:25:35 2012							
Calibrator Value:	1.0	GAPI						
Background Reading:	0.0	cps						
Calibrator Reading:	1.0	cps						
Sensitivity:	0.2800	GAPI/cps						