



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
LOG

Company	MULL DRILLING COMPANY, INC.	Company	MULL DRILLING COMPANY, INC.	Location:	API # : 15-101-22136-0000	Other Services DIL/MEL SONIC
Well	FOOS #1-27	Well	FOOS #1-27	SEC 27 TWP 17S RGE 28W 2020' FNL & 1399' FEL		
Field	WILDCAT	Field	WILDCAT			
County	LANE	County	LANE	State KANSAS		
State	KANSAS	Permanent Datum	GROUND LEVEL	Elevation	2704	Elevation K.B. 2709 D.F. 2707 G.L. 2704
		Log Measured From	KELLY BUSHING 5' A.G.L.			
		Drilling Measured From	KELLY BUSHING			
Date	11/2/08					
Run Number	CNE					
Depth Driller	4610					
Depth Logger	4610					
Bottom Logged Interval	4586					
Top Log Interval	3700					
Casing Driller	8 5/8"@235'					
Casing Logger	235					
Bit Size	7 7/8					
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	3,100 PPM			
Density / Viscosity	9.5/46					
pH / Fluid Loss	8.5/11.2					
Source of Sample	FLOWLINE					
Rm @ Meas. Temp	1.00@84F					
Rmf @ Meas. Temp	.750@84F					
Rmc @ Meas. Temp	1.20@84F					
Source of Rmf / Rmc	MEASUREMENT					
Rm @ BHT	.694@121F					
Time Circulation Stopped	2 HOURS					
Time Logger on Bottom	5:30 A.M.					
Maximum Recorded Temperature	121F					
Equipment Number	0836					
Location	HAYS, KANSAS					
Recorded By	JEFF LUEBBERS					
Witnessed By	PHIL ASKEY					

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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
DIGHTON, KS. 4N. ON HWY 23 TO RD. 190., 4E., 1/2N., W. INTO

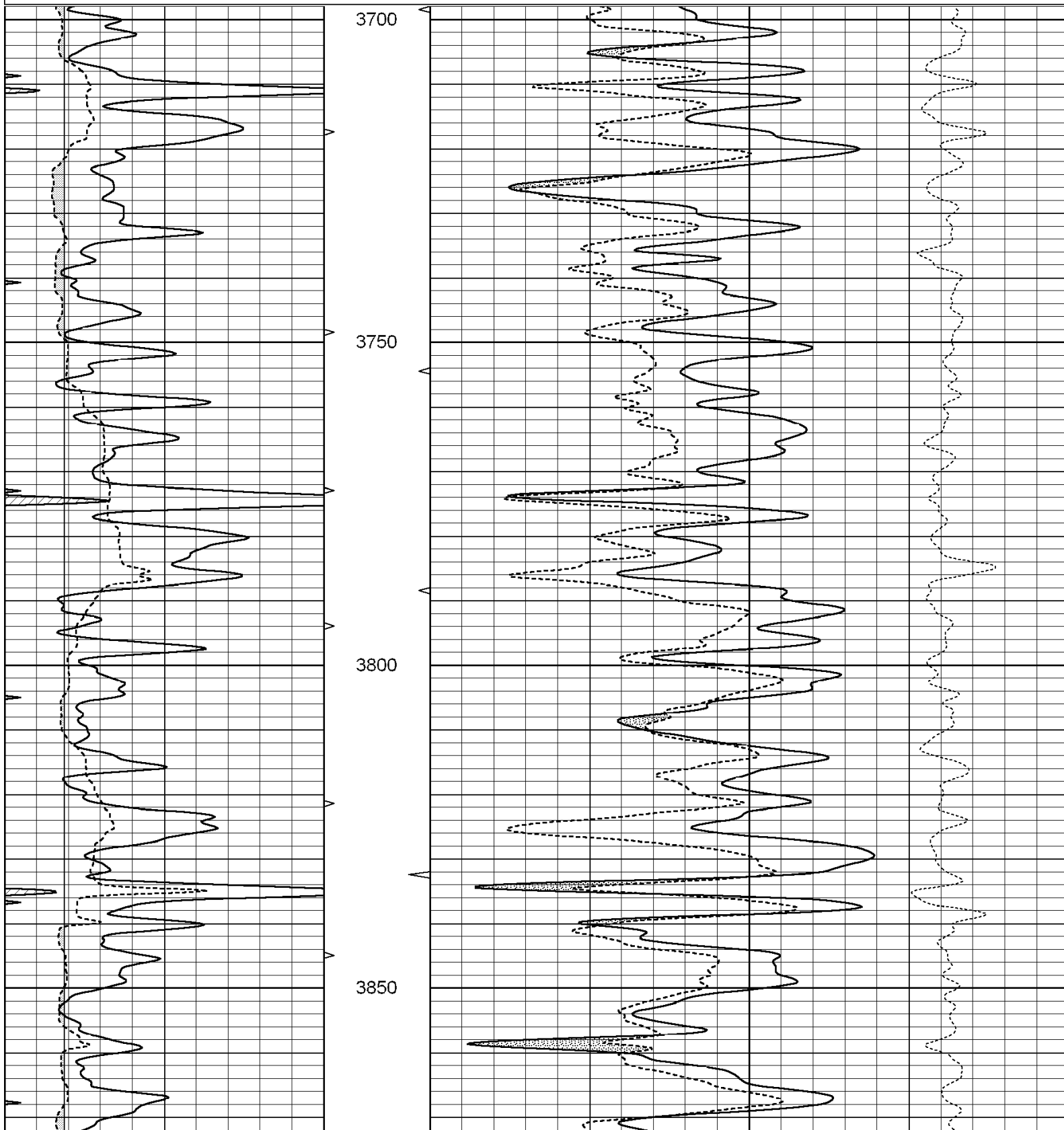


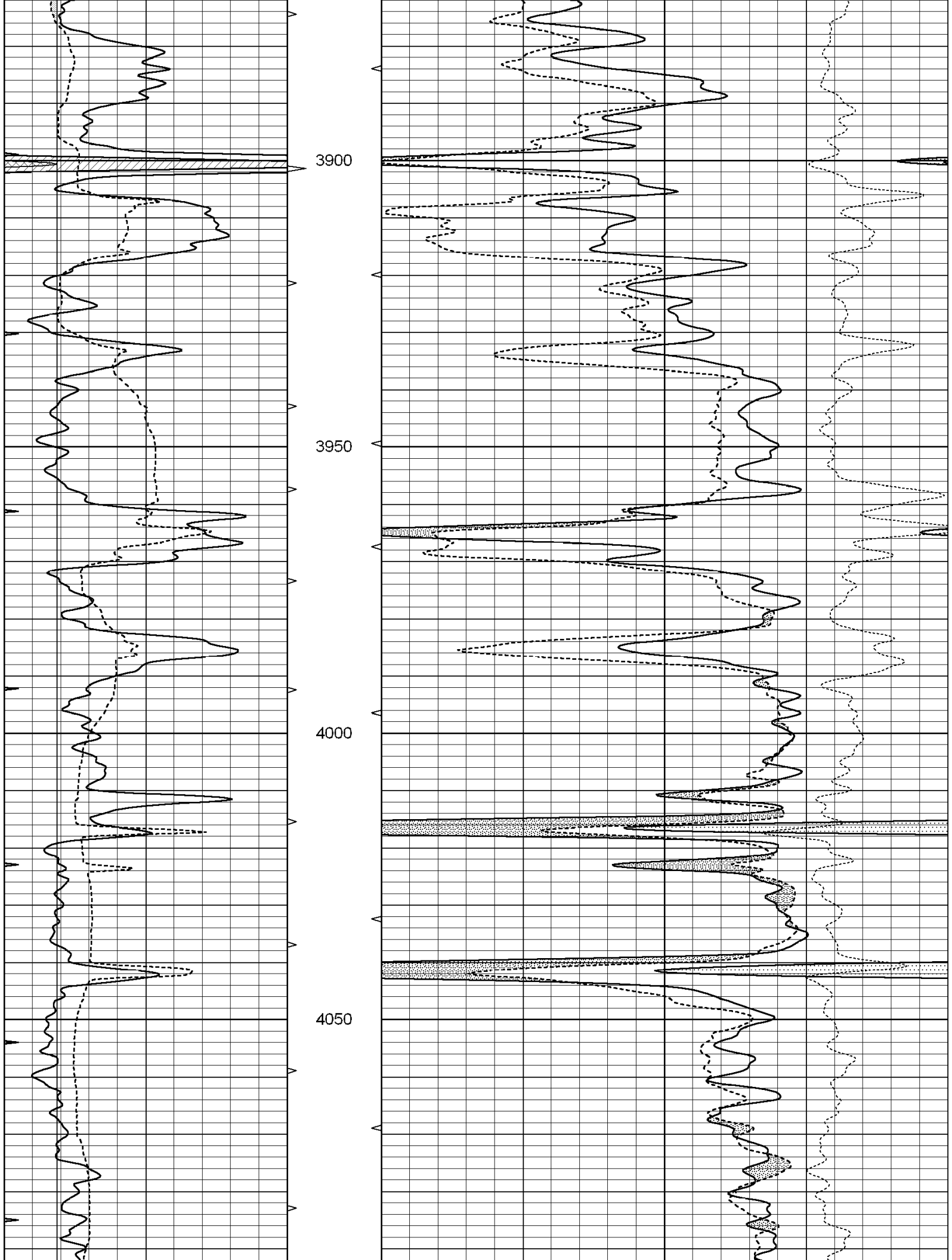
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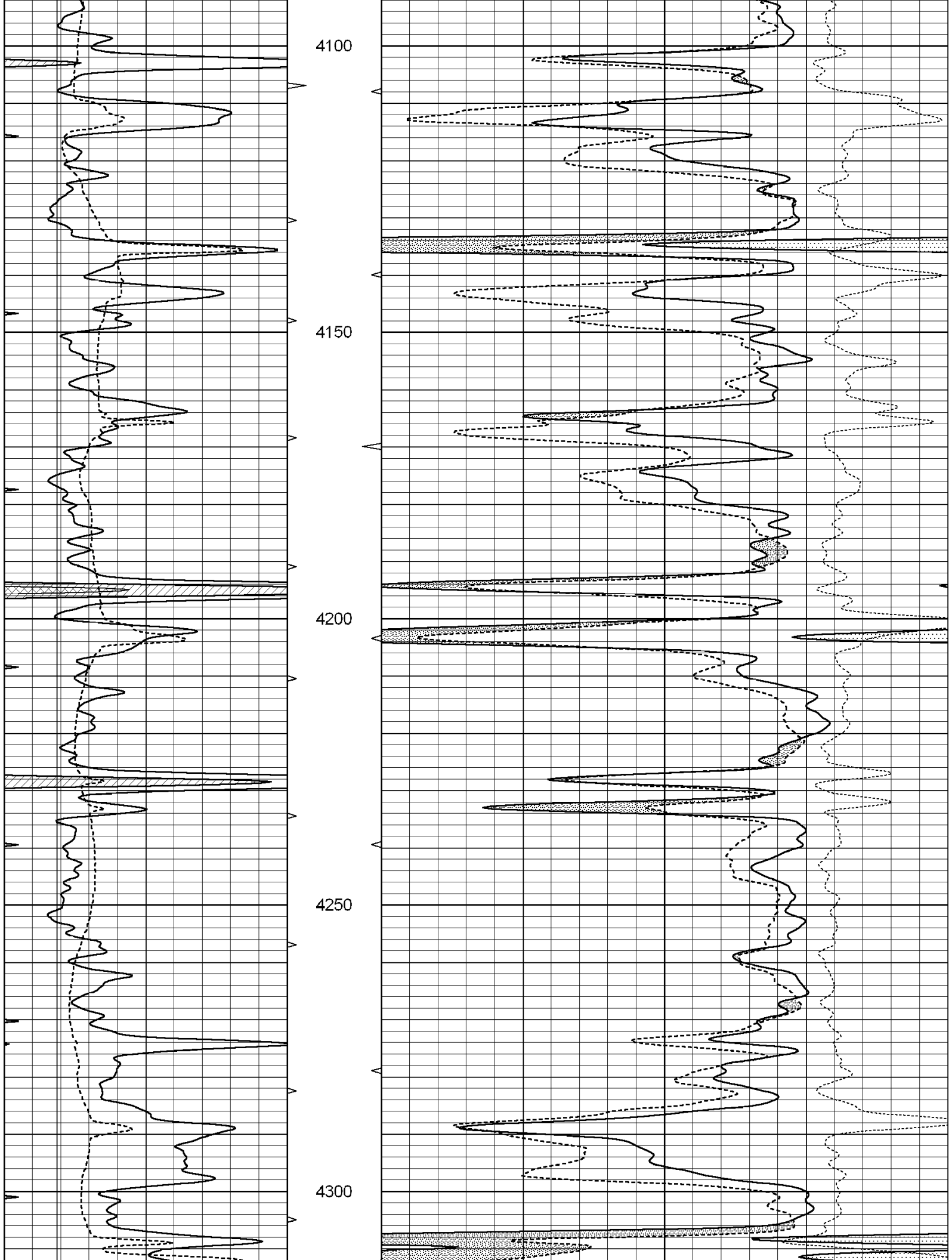
MAIN SECTION

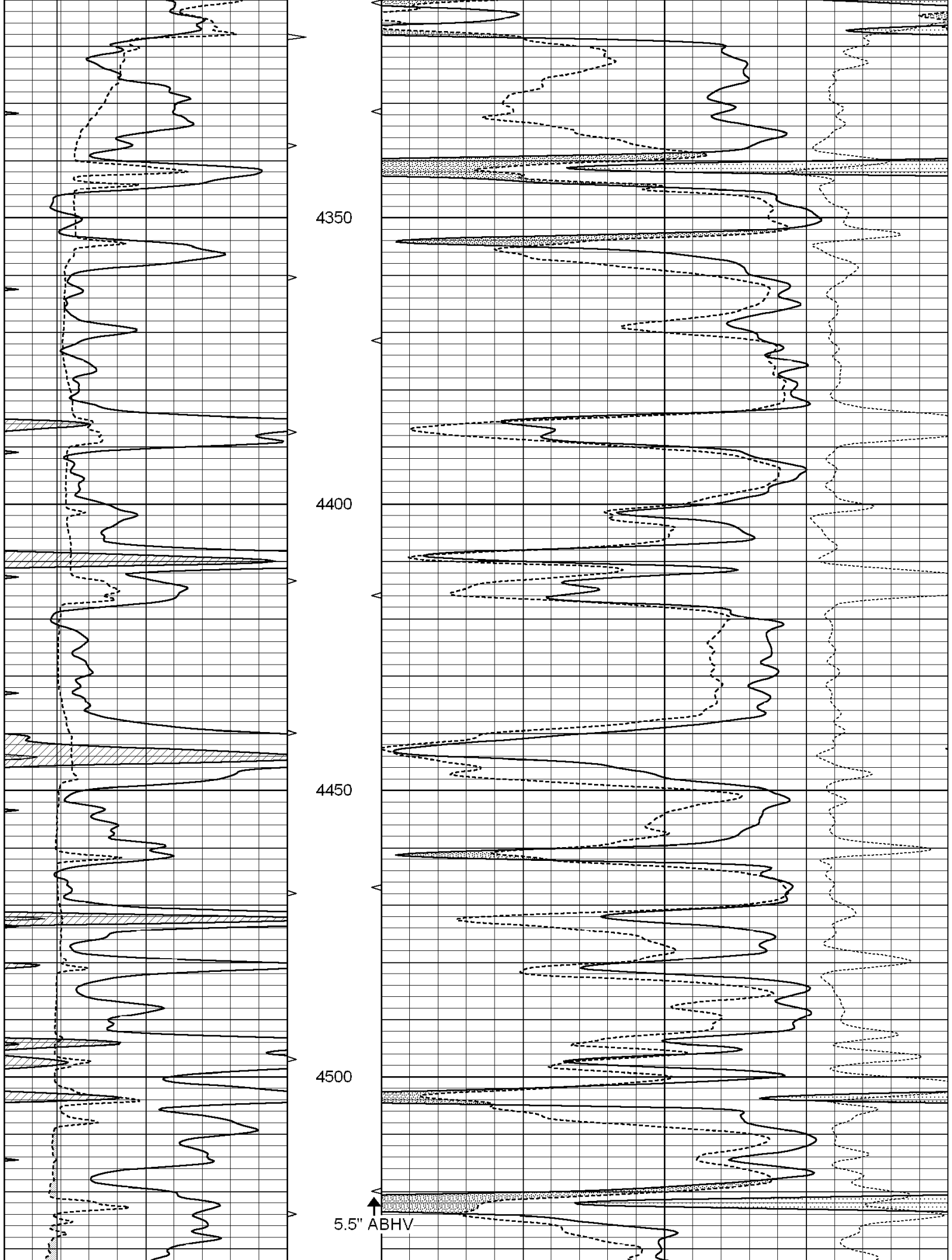
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Dataset Pathname: pass3.5
Presentation Format: den_neu
Dataset Creation: Sun Nov 02 05:13:46 2008 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

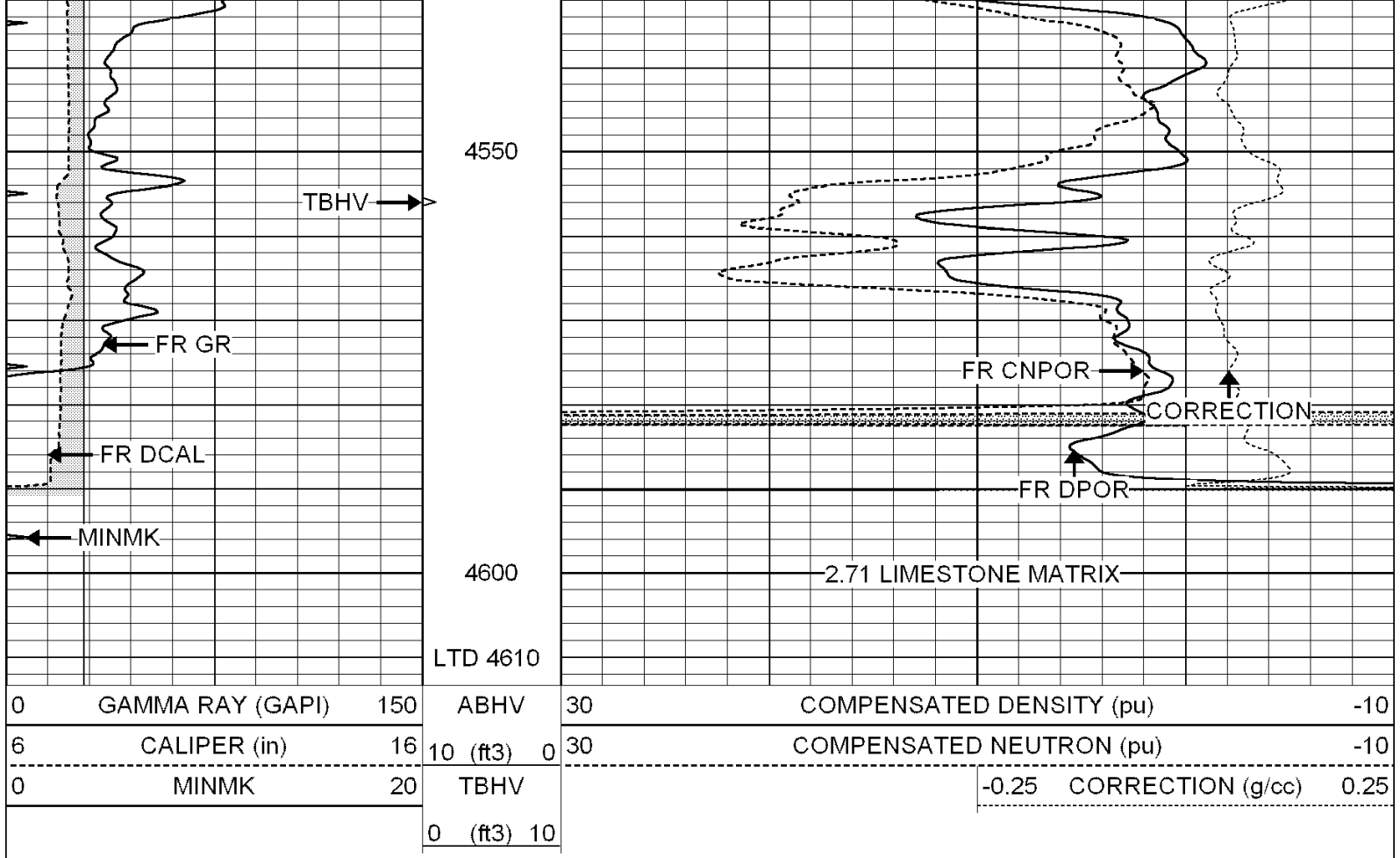
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			







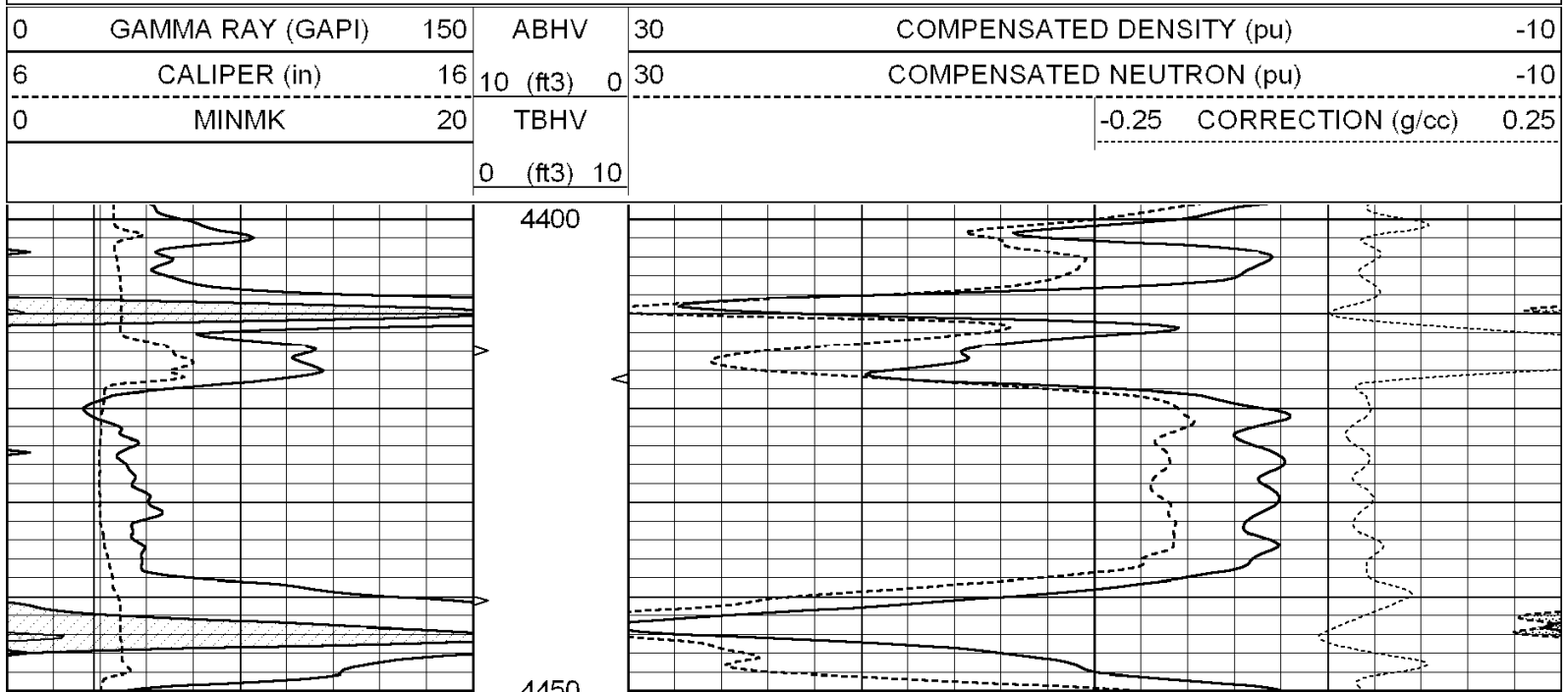


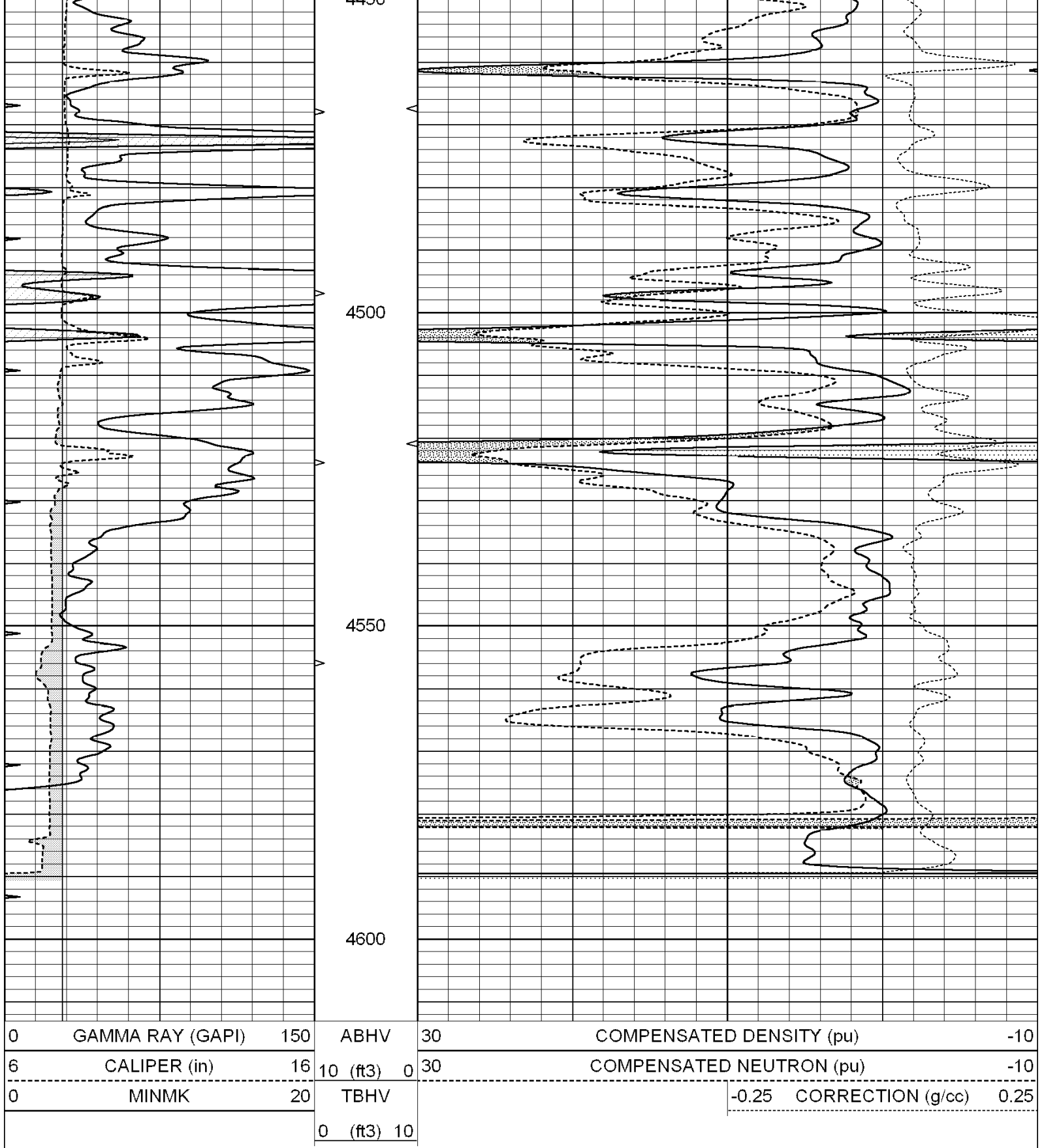


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REPEAT SECTION

Database File: 002757ddn.db
 Dataset Pathname: pass2.9
 Presentation Format: den_neu
 Dataset Creation: Sun Nov 02 05:10:45 2008 by Calc Open-Cased 060407
 Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 002757ddn.db
 Dataset Pathname: pass3.5
 Dataset Creation: Sun Nov 02 05:13:46 2008 by Calc Open-Cased 060407

Dual Induction Calibration Report

Serial-Model: DIL6-GEAR
 Performed: Sun Nov 02 04:29:31 2008

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.644	V	0.000	400.000	mmho-m	640.000	0.000
Medium	0.020	0.738	V	0.000	462.500	mmho-m	720.000	-22.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.000	1.000	V	0.000	1.000	mmho-m	1.000	0.000
Medium	0.000	1.000	V	0.000	1.000	mmho-m	1.000	0.000

Litho Density Calibration Report
Serial: 004 Model: PRB
Performed Sun May 27 14:22:12 2007

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	1637.8	12277.9	3987.9	13175.0	cps
Window 2	1491.6	10303.7	3430.3	10765.5	cps
Window 3	1139.1	4797.1	1913.1	4884.2	cps
Window 4	357.0	362.0	360.1	361.1	cps
Long Space	0.0	8812.1	1938.7	9273.9	cps
Short Space	1.4	1599.6	1036.7	1659.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.0	Rib Slope	: 0.966	Density/Spine Ratio	: 0.559
Spine Angle	: 74.0	Spine Slope	: 3.491	Spine Intercept	: -16.7

Caliper		
Low Ref	Readings	Reference
High Ref	2.2	5.7
	4.4	15.0
	Gain: 4.3	Offset: -3.9

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:	Sun Nov 02 04:29:14 2008
Calibrator Value:	200.0 GAPI
Background Reading:	0.0 cps
Calibrator Reading:	189.0 cps
Sensitivity:	1.0500 GAPI/cps