SUPERIOR WELL SERVICES

SUPERIOR
Hays, Kansas

COMPENSATED DENSITY / NEUTRON LOG

Company MULL DRILLING COMPANY, INC.
Well #1-7 KENT
Field WILDCAT
County LANE State KANSAS

Location: API # : 15-101-22132-0000
1327' FSL & 1614' FEL
SEC 7 TWP 18S RGE 27W

Other Services
DIL/MEL
SONIC

Elevation
K.B. 2712
D.F. 2710
G.L. 2703

Permanent Datum GROUND LEVEL Elevation 2703
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Company MULL DRILLING COMPANY, INC.
Well #1-7 KENT
Field WILDCAT
County LANE
State KANSAS

Date	10/30/08		
Run Number	ONE		
Depth Driller	4650		
Depth Logger	4649		
Bottom Logged Interval	4625		
Top Log Interval	3700		
Casing Driller	8 5/8"@228'		
Casing Logger	230		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,750 PPM	
Density / Viscosity	9.3/55		
pH / Fluid Loss	10.5/10.0		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.50@62F		
Rmf @ Meas. Temp	1.13@62F		
Rmc @ Meas. Temp	1.80@62F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.762@122F		
Time Circulation Stopped	2.5 HOURS		
Time Logger on Bottom	3:30 A.M.		
Maximum Recorded Temperature	122F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KEVIN KESSLER		

<<< Fold Here >>>

Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785)628-6395
DIRECTIONS
DIGHTON, KS. 7E. ON HWY 96, 1N., W. INTO

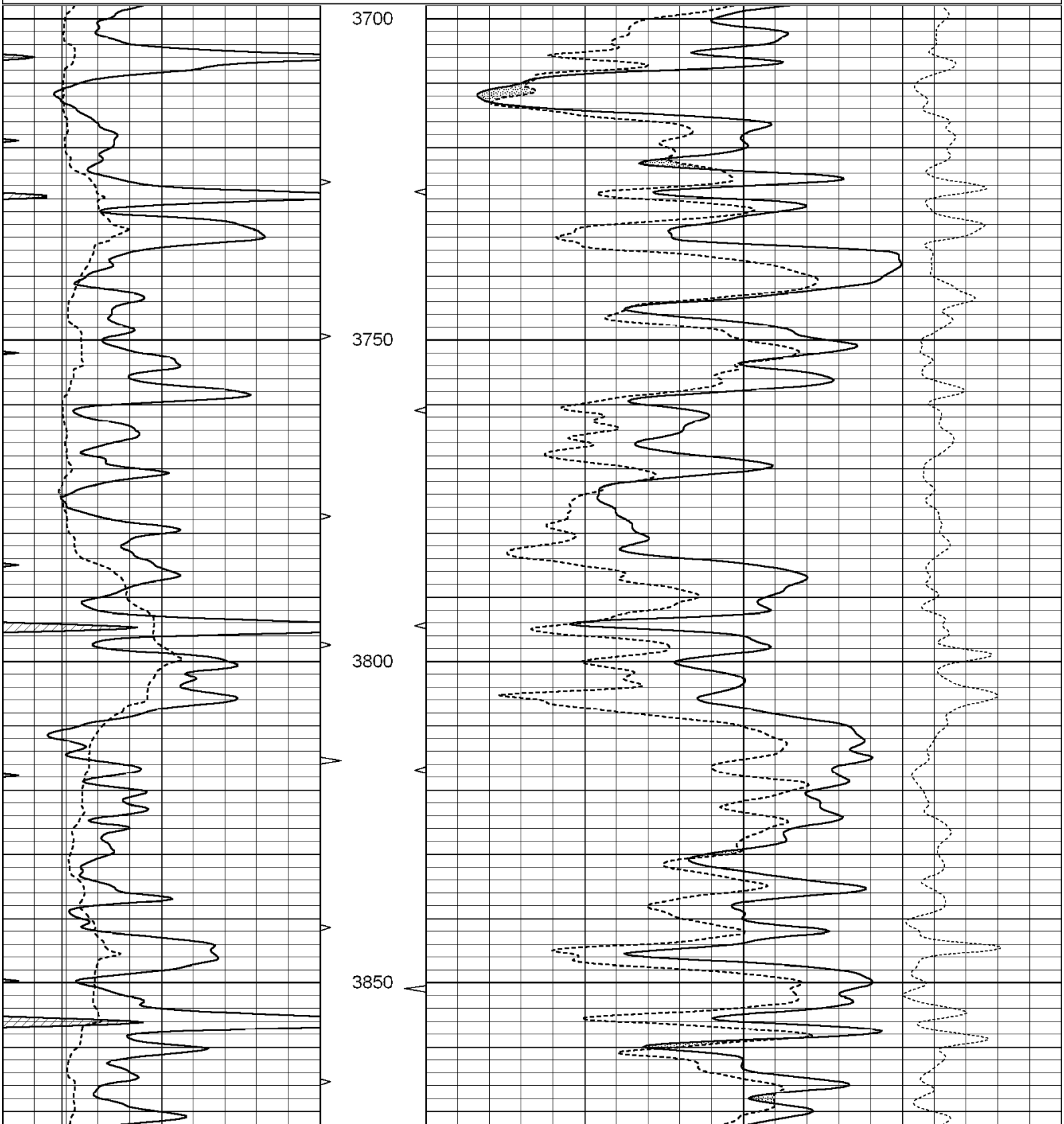
MAIN SECTION

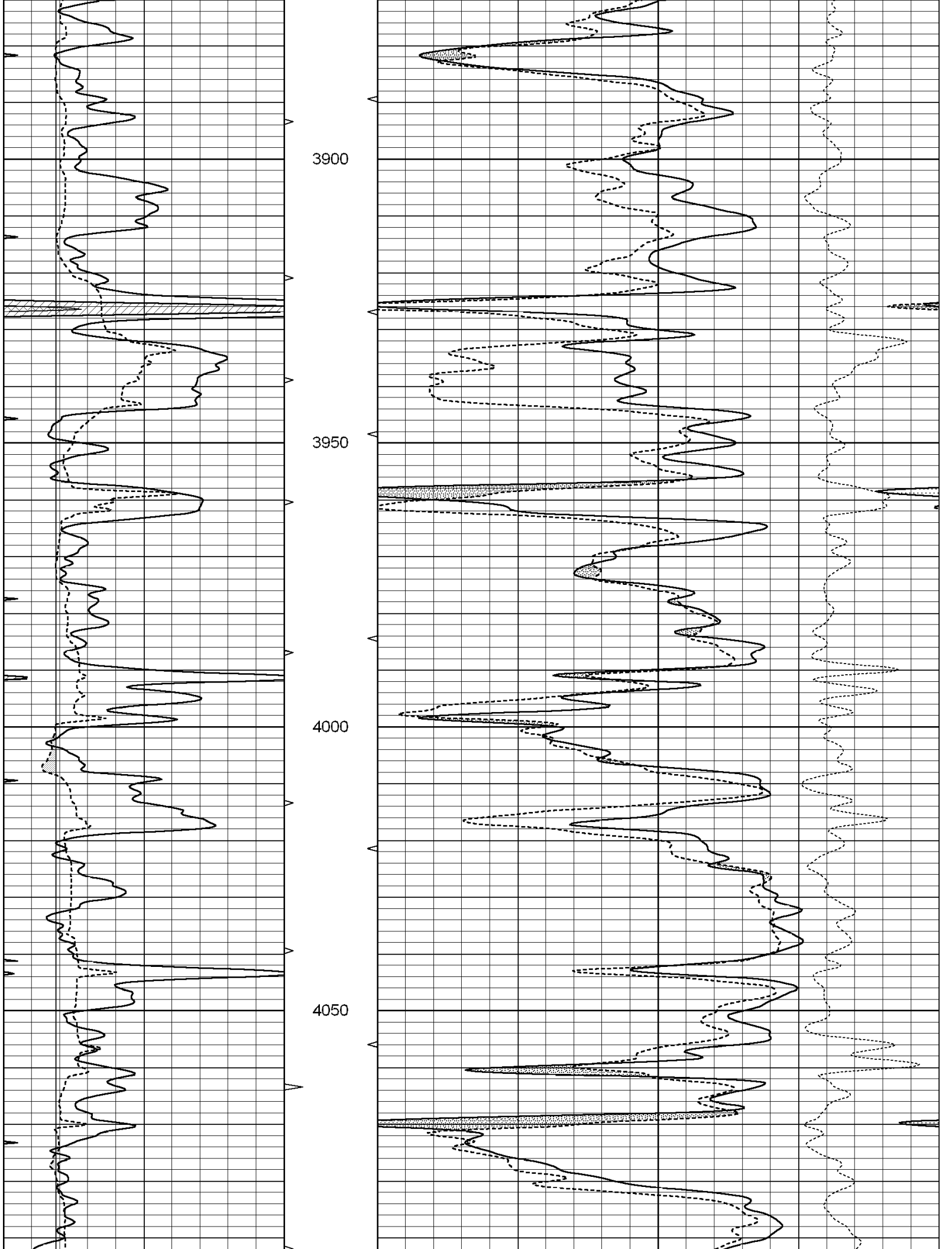
SUPERIOR
Hays, Kansas
SUPERIOR WELL SERVICES

Kansas

Database File: 002755ddn.db
Dataset Pathname: pass3.2
Presentation Format: den_neu
Dataset Creation: Thu Oct 30 04:10:56 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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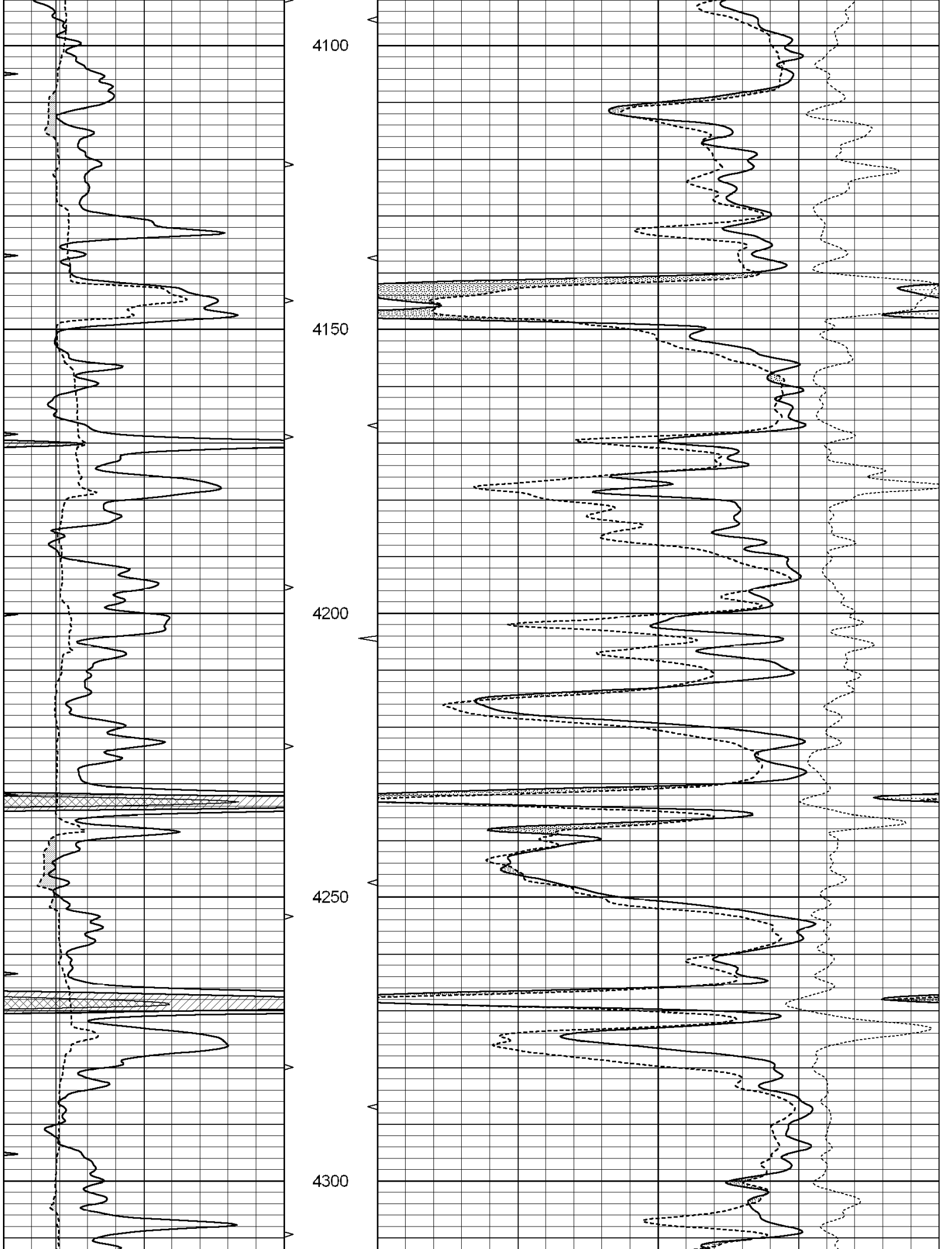
4050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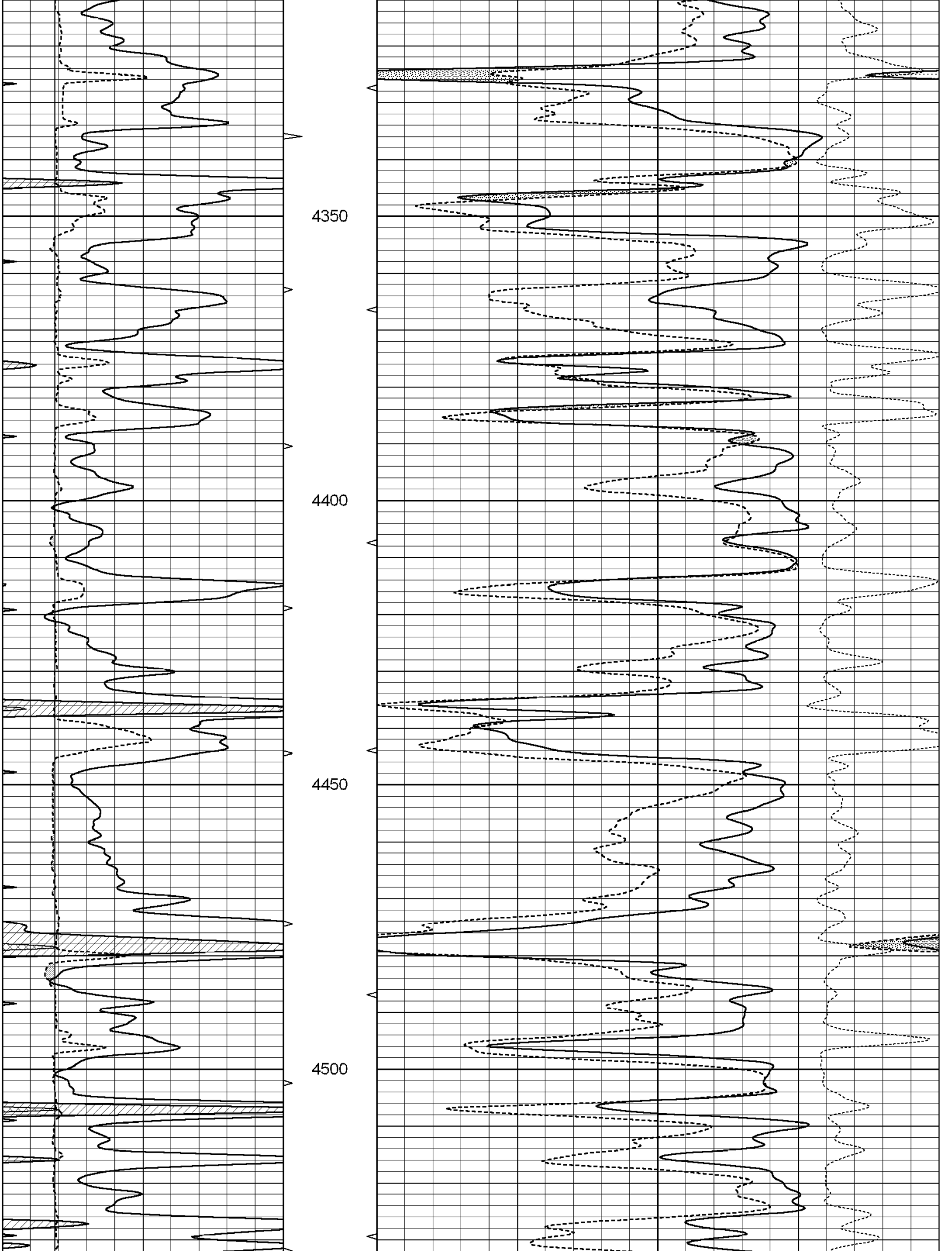
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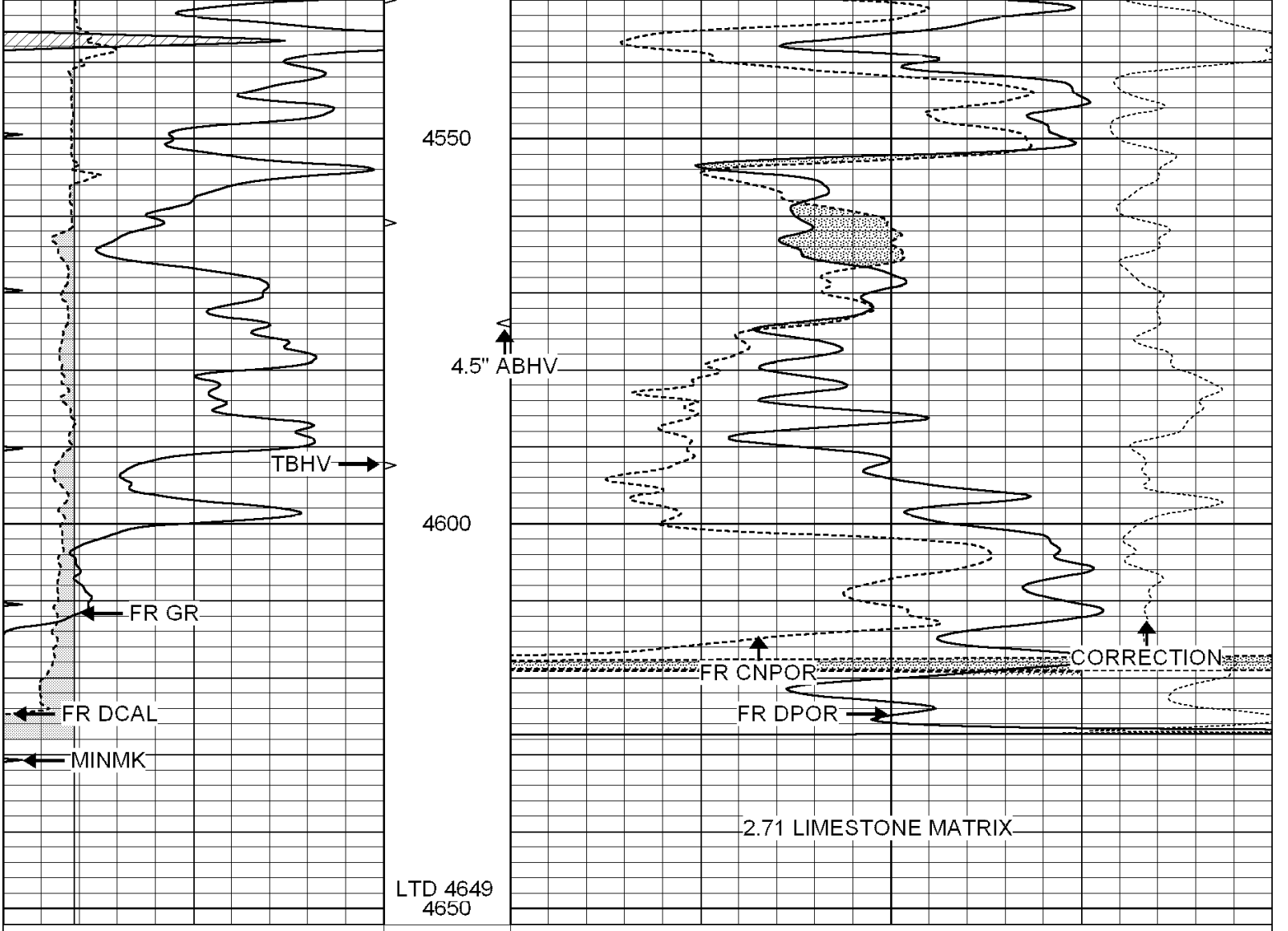
4400
4450
4500



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				

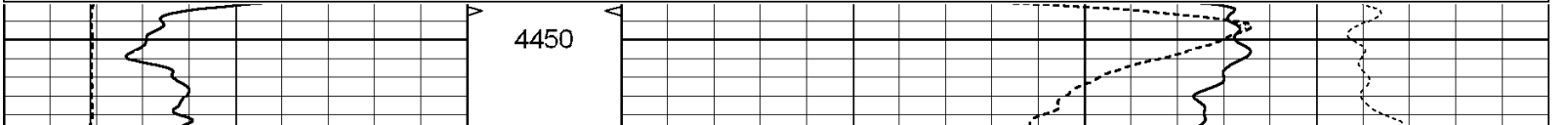
SUPERIOR WELL SERVICES

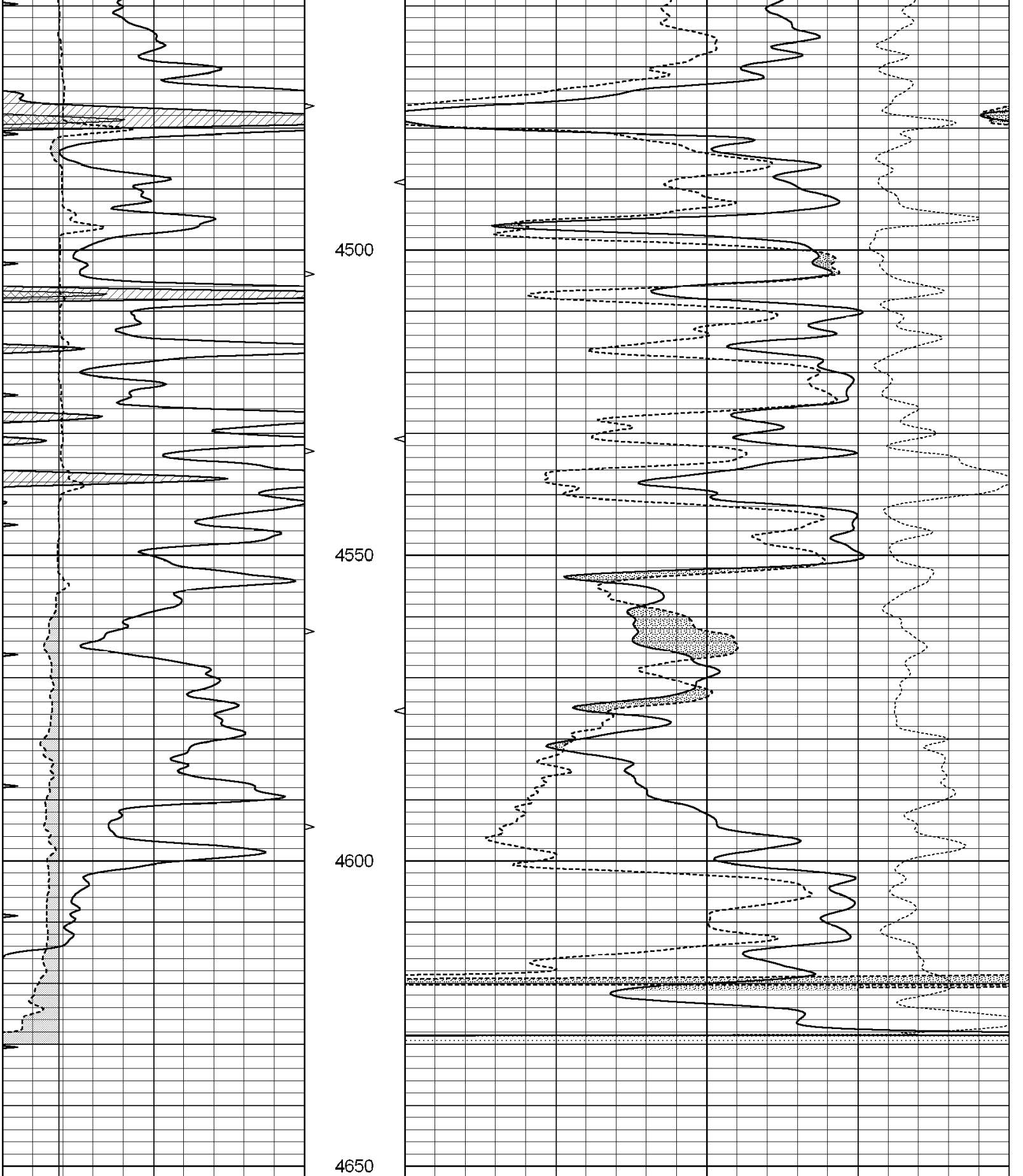
SUPERIOR
Hays,
Kansas

REPEAT SECTION

Database File:	002755ddn.db
Dataset Pathname:	pass2.8
Presentation Format:	den_neu
Dataset Creation:	Thu Oct 30 04:11:44 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				




4500
4550
4600
4650
0 GAMMA RAY (GAPI) 150
6 CALIPER (in) 16
0 MINMK 20
ABHV
10 (ft3) 0
TBHV
0 (ft3) 10
30 COMPENSATED DENSITY (pu) -10
30 COMPENSATED NEUTRON (pu) -10
-0.25 CORRECTION (g/cc) 0.25

Calibration Report

Database File: 002755ddn.db
Dataset Pathname: pass3.2
Dataset Creation: Thu Oct 30 04:10:56 2008 by Calc Open-Cased 060407

Dual Induction Calibration Report

Serial-Model: DIL6-GEAR
Performed: Sat Oct 25 21:58:51 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	-3.000
Medium	0.020	0.738	V	0.000	462.500	mmho-m	720.000	-23.000
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

	Readings	Reference
Low Ref	2.2	6.3
High Ref	4.4	15.0
	Gain: 4.0	Offset: -2.7

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: Thu Oct 30 02:00:19 2008

Calibrator Value: 200.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	189.0	cps
Sensitivity:	1.0500	GAPI/cps