SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

COMPENSATED DENSITY / NEUTRON PE LOG

Company LARIO OIL & GAS COMPANY
Well STEVENSON TRUST"A" #1-10
Field WILDCAT
County GOVE State KANSAS

Location: API # : 15-063-21740-0000
1110' FSL & 2310' FWL
SEC 10 TWP 13S RGE 31W

Other Services
DIL

Permanent Datum GROUND LEVEL Elevation 2947
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2957
D.F. 2955
G.L. 2947

Company LARIO OIL & GAS COMPANY
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County GOVE
State KANSAS

Date	11/5/08		
Run Number	ONE		
Depth Driller	4750		
Depth Logger	4751		
Bottom Logged Interval	4727		
Top Log Interval	3500		
Casing Driller	8 5/8"@255'		
Casing Logger	268		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4,800 PPM	
Density / Viscosity	9.3/57		
pH / Fluid Loss	9.5/8.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	2.40@76F		
Rmf @ Meas. Temp	1.80@76F		
Rmc @ Meas. Temp	2.88@76F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	1.48@123F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	9:45 P.M.		
Maximum Recorded Temperature	123F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	STEVE DAVIS		

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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

OAKLEY, KS. (OLD 40 & HWY 83 JUNCTION) 11S. TO GOVE RD., 5E., 2S., 1/2E., N. INTO

MAIN SECTION

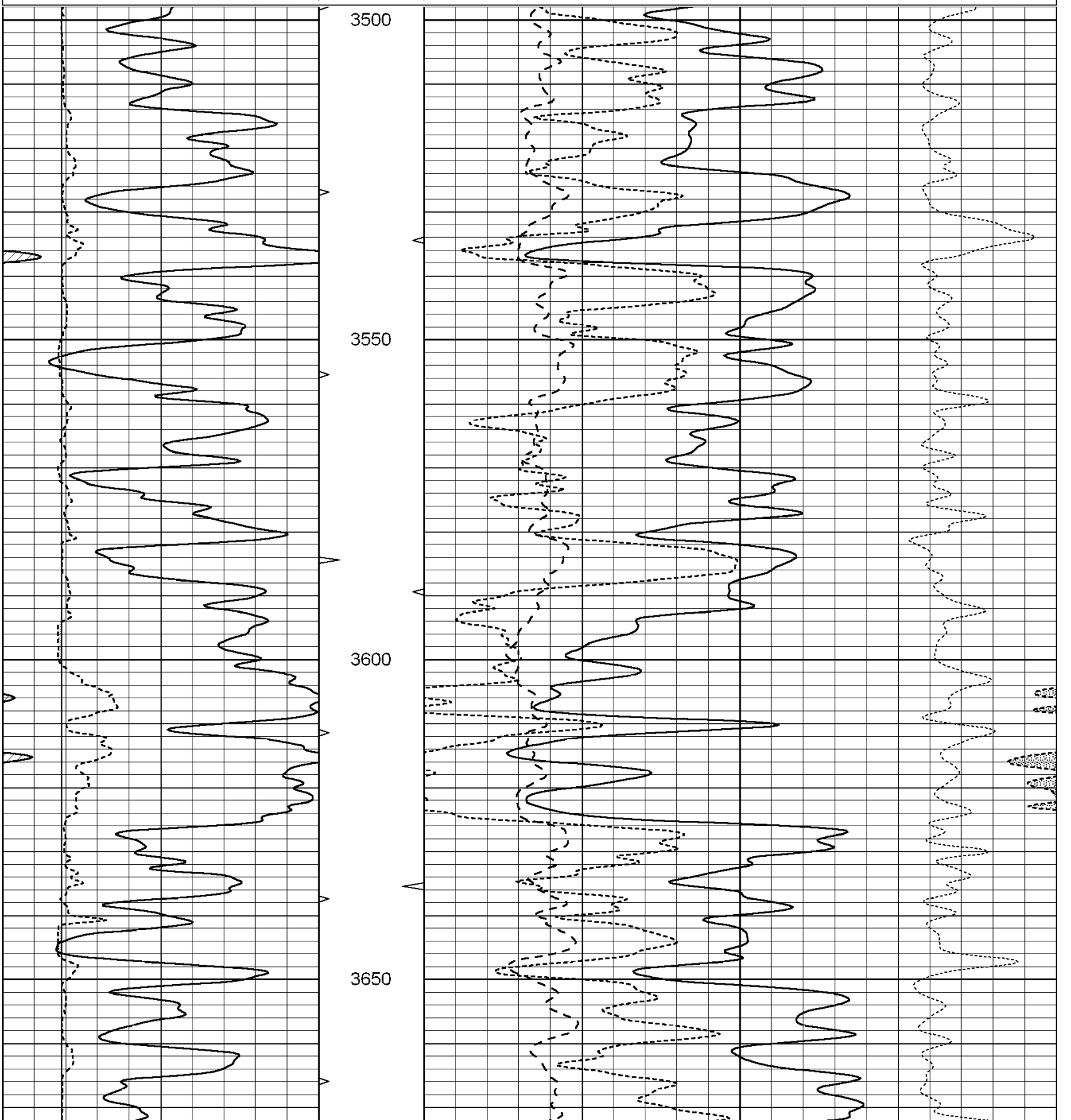
SUPERIOR
Hays,
Kansas

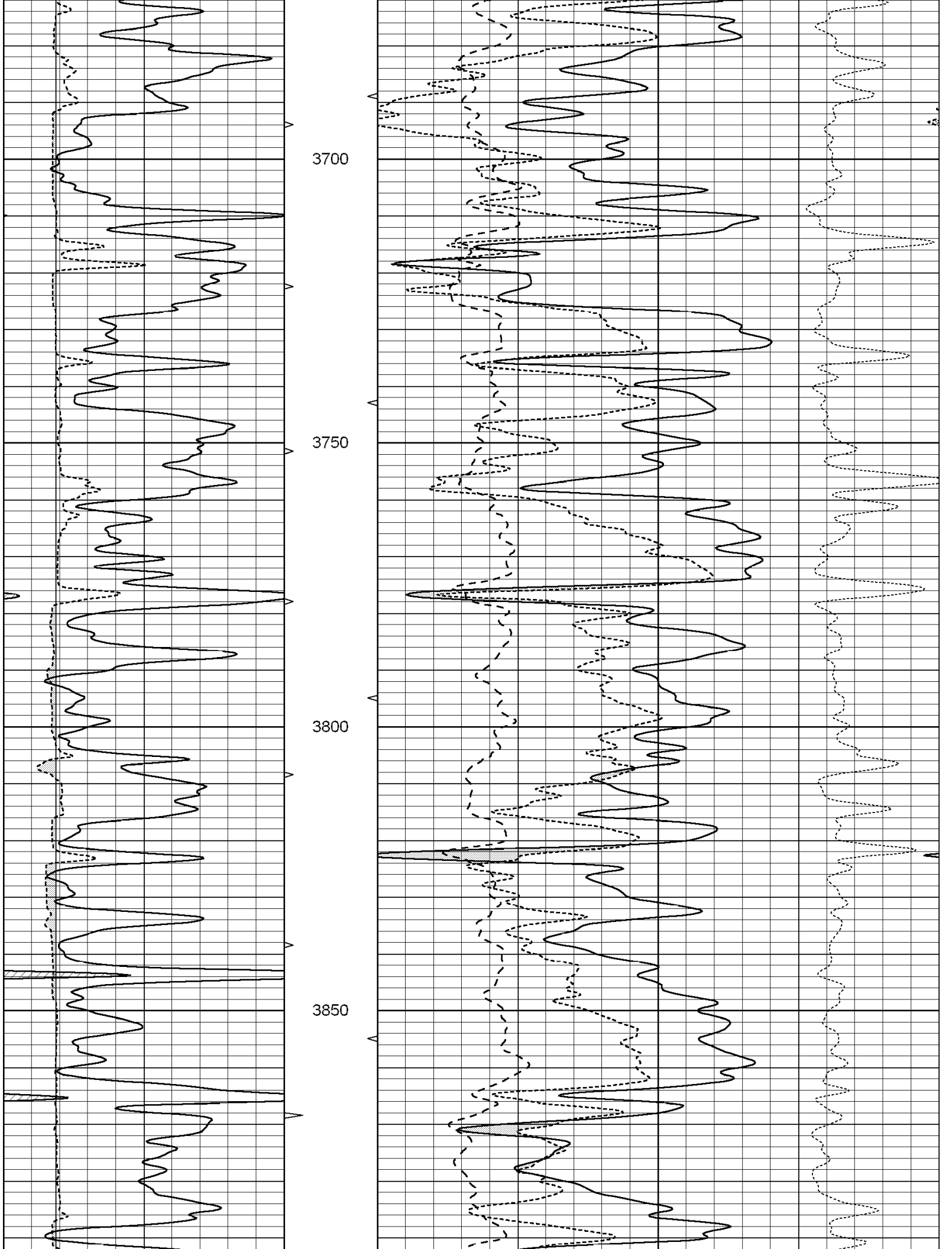
SUPERIOR WELL SERVICES

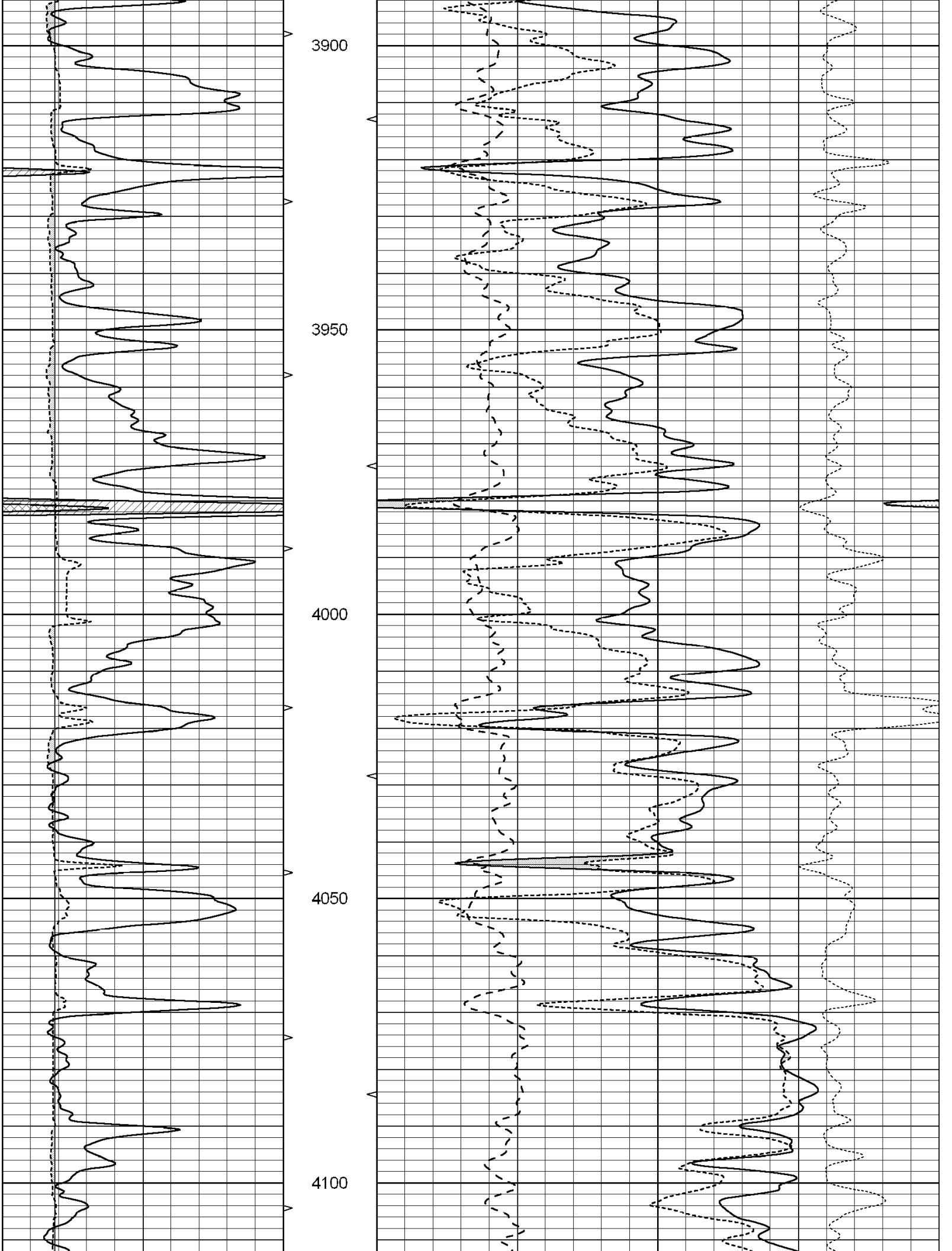
Kansas

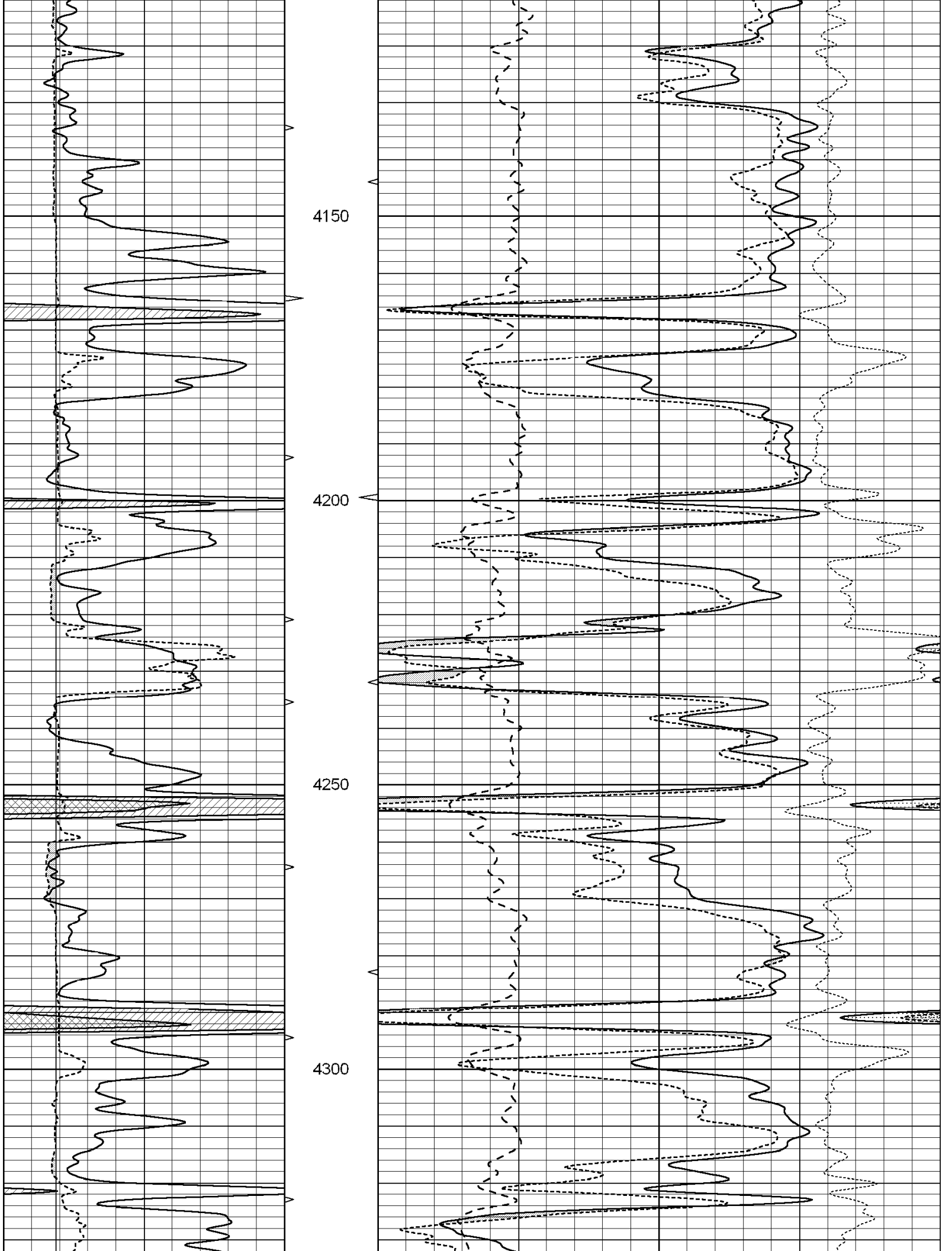
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Dataset Pathname: pass3.5
Presentation Format: ldt_neu
Dataset Creation: Wed Nov 05 22:43:49 2008 by Calc Open-Cased 060407
Charted by: Depth in Feet scaled 1:240

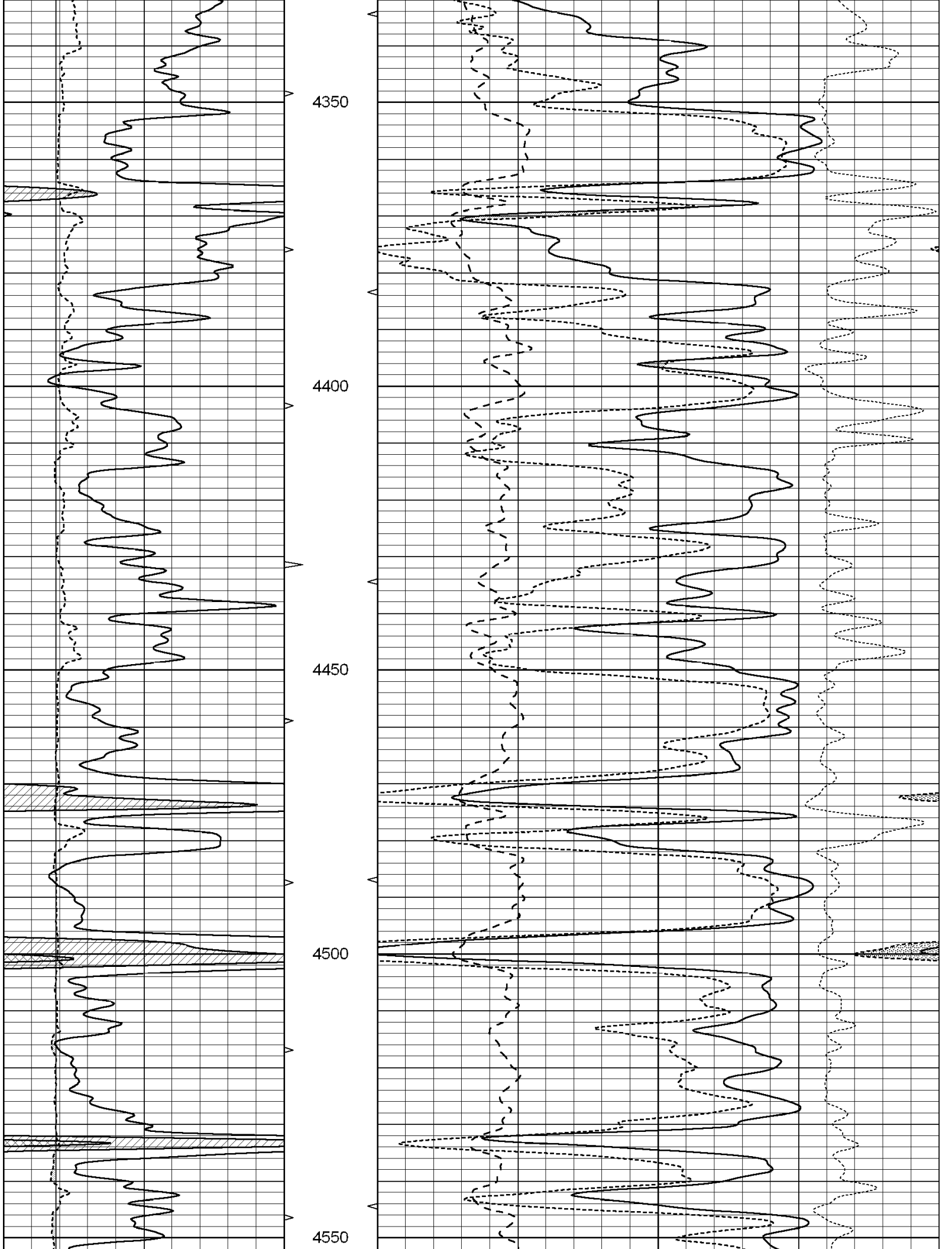
0 GAMMA RAY (GAPI) 150	ABHV	30 COMPENSATED DENSITY (pu) -10
6 CALIPER (in) 16	10 (ft3) 0	30 COMPENSATED NEUTRON (pu) -10
	TBHV	0 PE 10 -0.25 CORRECTION (g/cc) 0.25
	0 (ft3) 10	

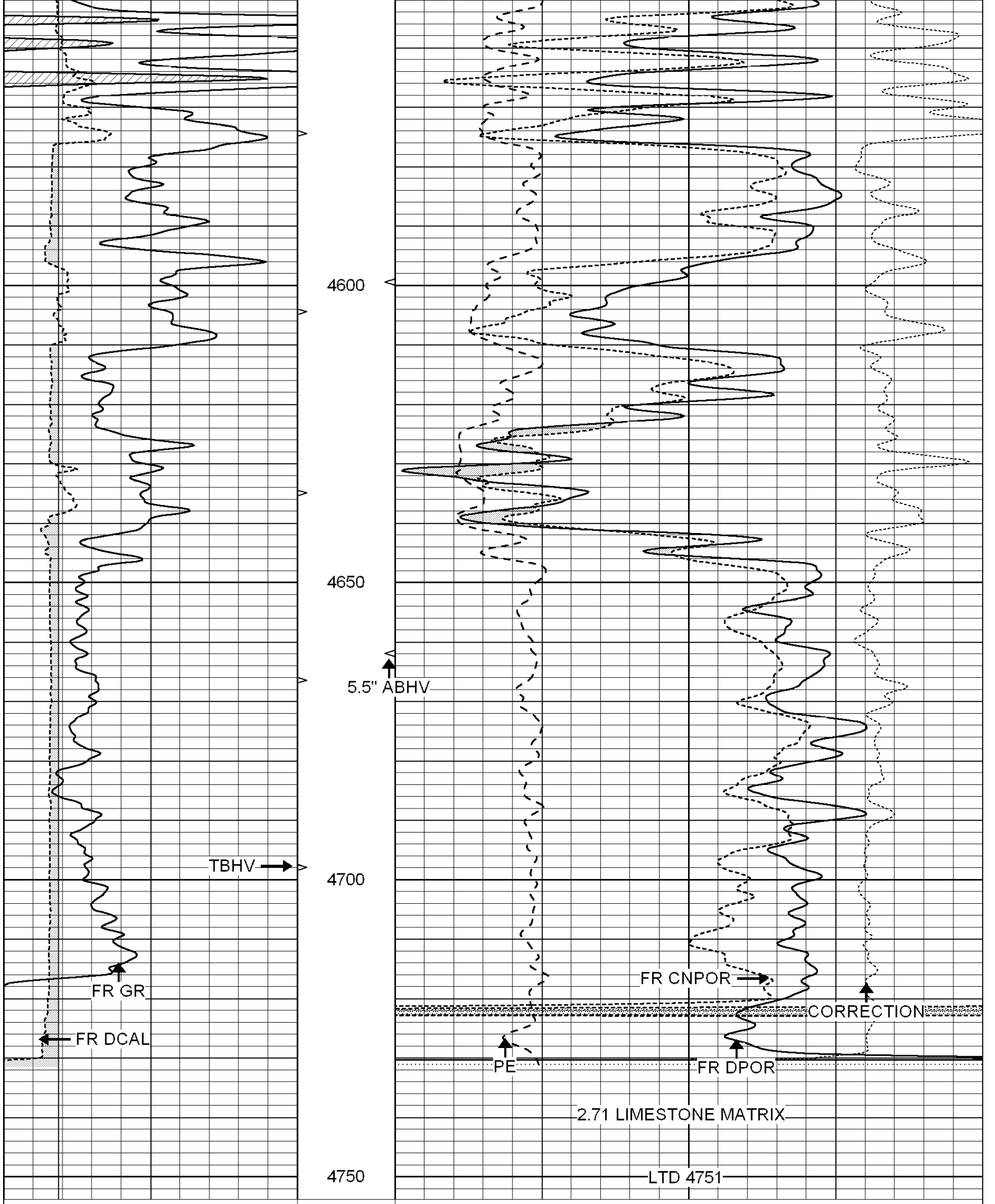



3700
3750
3800
3850


3900
3950
4000
4050
4100


4150
4200
4250
4300


4350
4400
4450
4500
4550

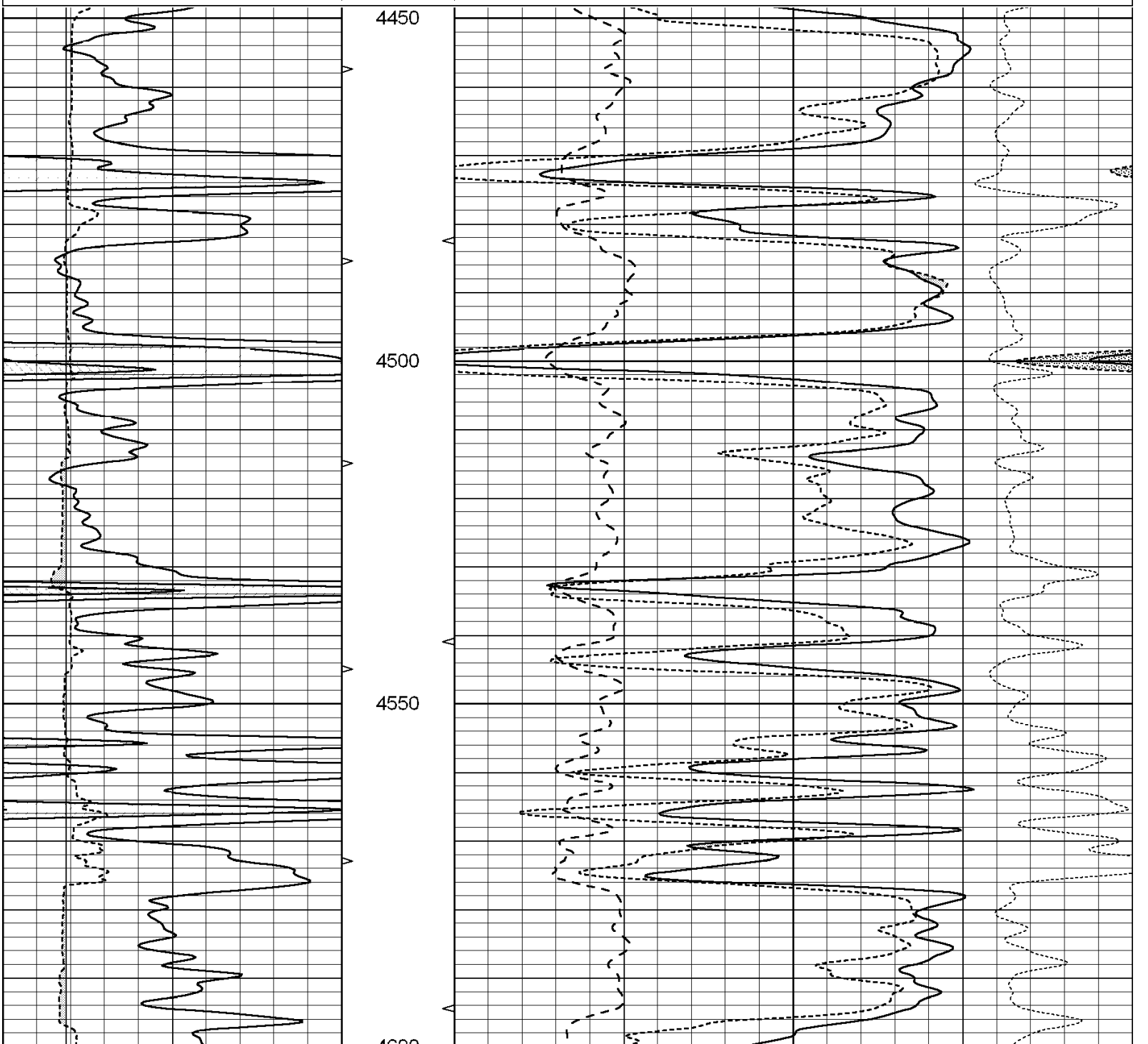

4600
4650
4700
4750
5.5" ABHV
TBHV
FR GR
FR DCAL
FR CNPOR
CORRECTION
PE
FR DPOR
2.71 LIMESTONE MATRIX
LTD 4751
0 GAMMA RAY (GAPI) 150
6 CALIPER (in) 16
ABHV
10 (ft3) 0
TBHV
0 (ft3) 10
30 COMPENSATED DENSITY (pu) -10
30 COMPENSATED NEUTRON (pu) -10
0 PE 10
-0.25 CORRECTION (g/cc) 0.25

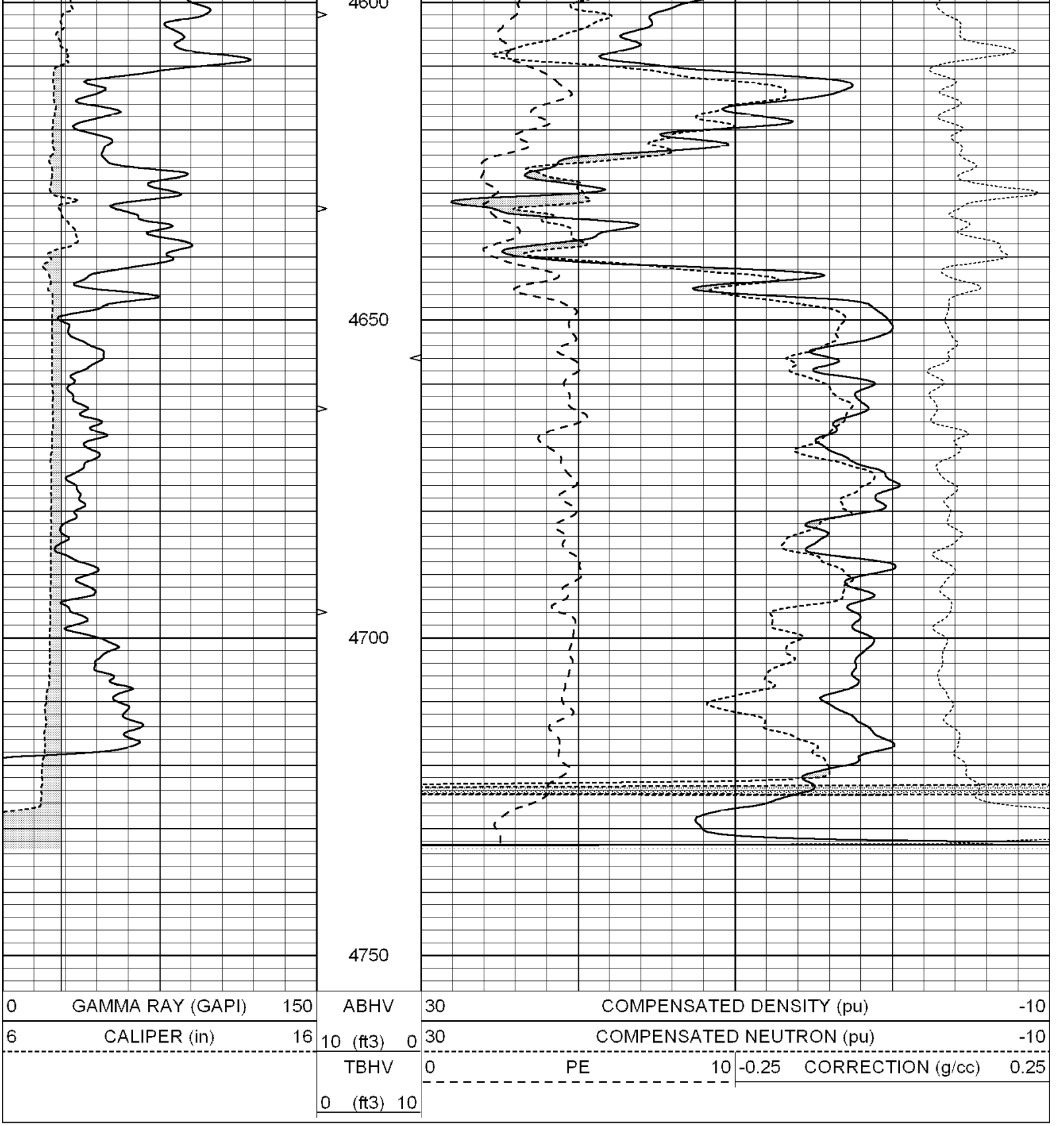
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Kansas

REPEAT SECTION

Database File:	002759pe.db
Dataset Pathname:	pass2.7
Presentation Format:	ldt_neu
Dataset Creation:	Wed Nov 05 22:45:18 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
			TBHV	0	PE	10 -0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10				





Calibration Report

Database File: 002759pe.db
Dataset Pathname: pass3.5
Dataset Creation: Wed Nov 05 22:43:49 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	-3.000
Medium	0.020	0.738	V	0.000	462.500	mmho-m	720.000	-27.000
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	6.0
High Ref	4.4	15.0

Gain: 4.2 Offset: -3.3

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: Wed Nov 05 21:55:59 2008

Calibrator Value: 200.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 189.0 cps

Sensitivity: 1.0500 GAPI/cps