Company	CHIEFTAIN OIL COMPANY, INC.
Well	NEWTON #2
Field	TRAFFAS
County	BARBER
State	KANSAS

SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

COMPENSATED DENSITY / NEUTRON PE LOG

Company CHIEFTAIN OIL COMPANY, INC.

Well NEWTON #2

Field TRAFFAS

County BARBER State KANSAS

Location: API #: 15-007-23645-0000

700' FNL & 630' FWL
NE - SW - NW - NW

SEC 18 TWP 33S RGE 10W

Permanent Datum	GROUND LEVEL	Elevation	1601
Log Measured From	KELLY BUSHING 10' A.G.L.		
Drilling Measured From	KELLY BUSHING		

Other Services: DIL

Elevation
K.B. 1611
D.F. 1609
G.L. 1601

Date	2/23/11		
Run Number	ONE		
Depth Driller	5170		
Depth Logger	5173		
Bottom Logged Interval	5149		
Top Log Interval	3500		
Casing Driller	9 5/8"@336'		
Casing Logger	336		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,800 PPM	
Density / Viscosity	9.3/69		
pH / Fluid Loss	9.0/6.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.900@73F		
Rmf @ Meas. Temp	.675@73F		
Rmc @ Meas. Temp	1.08@73F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.517@127F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	12:45 P.M.		
Maximum Recorded Temperature	127F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	BOB STOLZLE		

<<< Fold Here >>>

Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395

DIRECTIONS

MEDICINE LOGDE, KS. 7 1/2E. ON HWY 160 TO "CEDAR HILLS RD.", 3S. TO "COLLEGE HILL RD.", JOG 100 FT. W., THEN 2 MORE S. ON "CEDAR HILLS RD." TO "T", E. INTO BLUE GATE FOLLOW TRAIL E. & S. AND THEN BACK WEST

SUPERIOR WELL SERVICES

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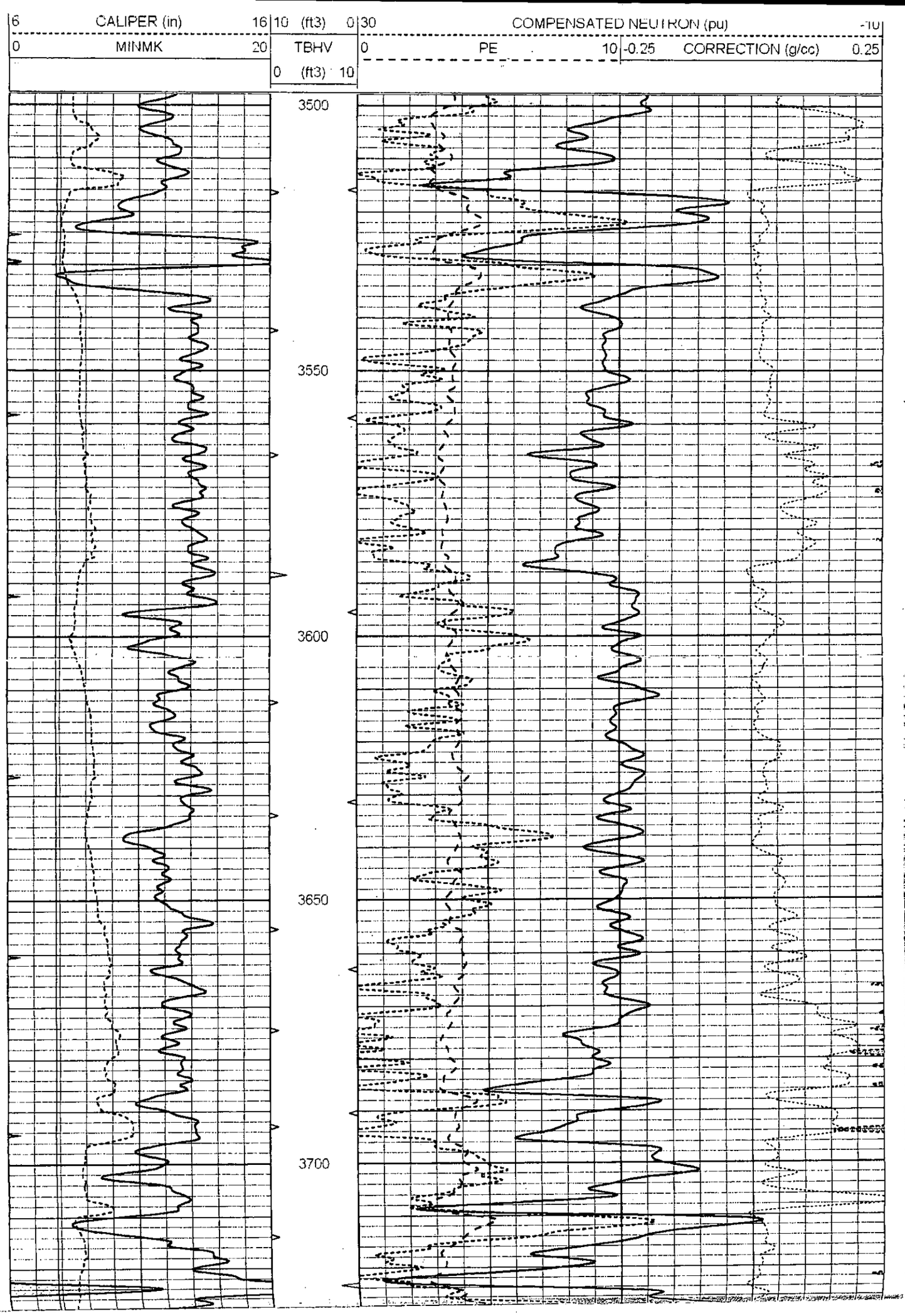
MAIN SECTION

Database File:	006296pe.db
Dataset Pathname:	pass3.3
Presentation Format:	ldt_neu
Dataset Creation:	Wed Feb 23 14:04:32 2011 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240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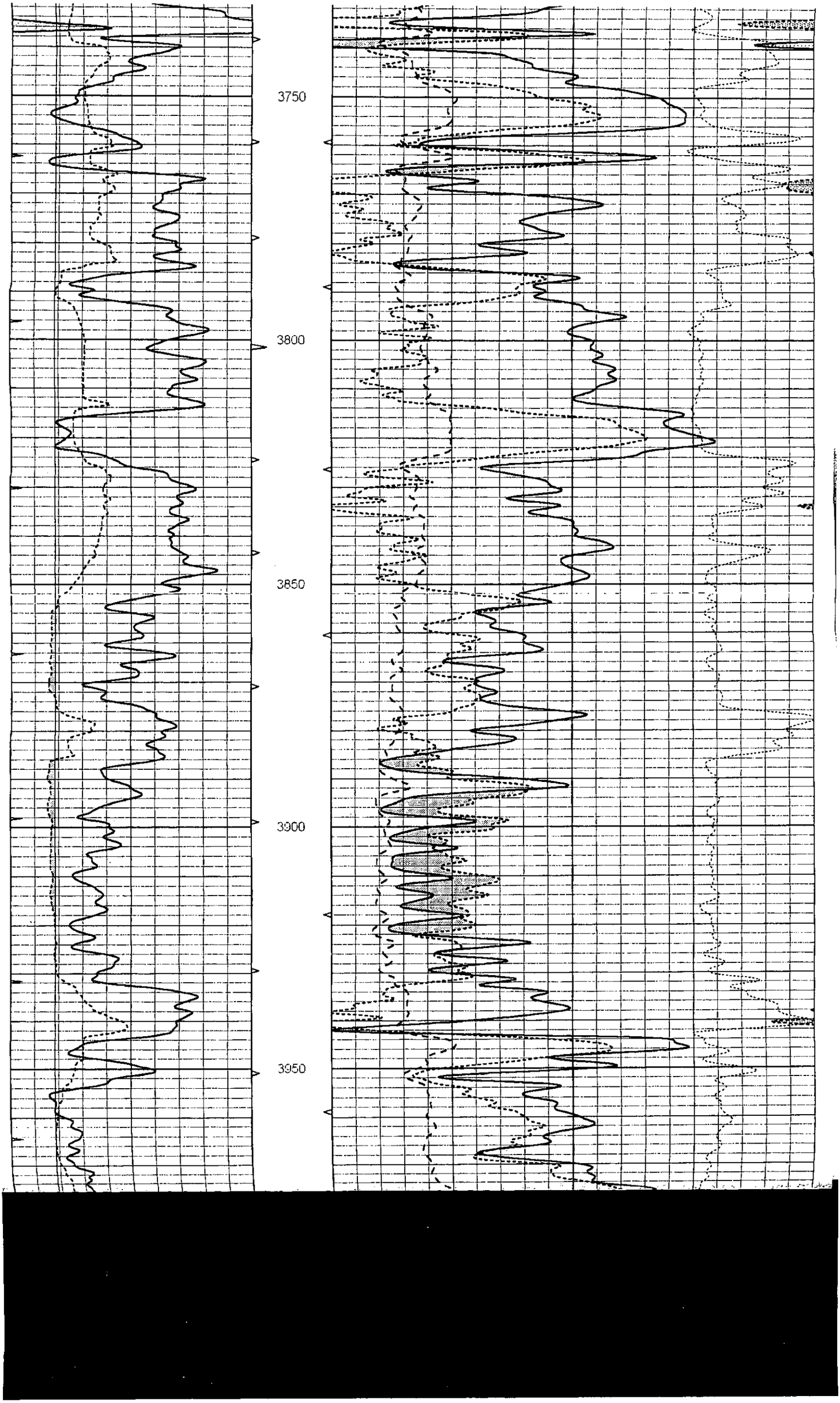
CALIPER (in)
16
0
MINMK
20
10 (ft3) 0
TBHV
0 (ft3) 10
30
COMPENSATED NEUTRON (pu)
-10
0
PE
10
-0.25
CORRECTION (g/cc)
0.25
3500
3550
3600
3650
3700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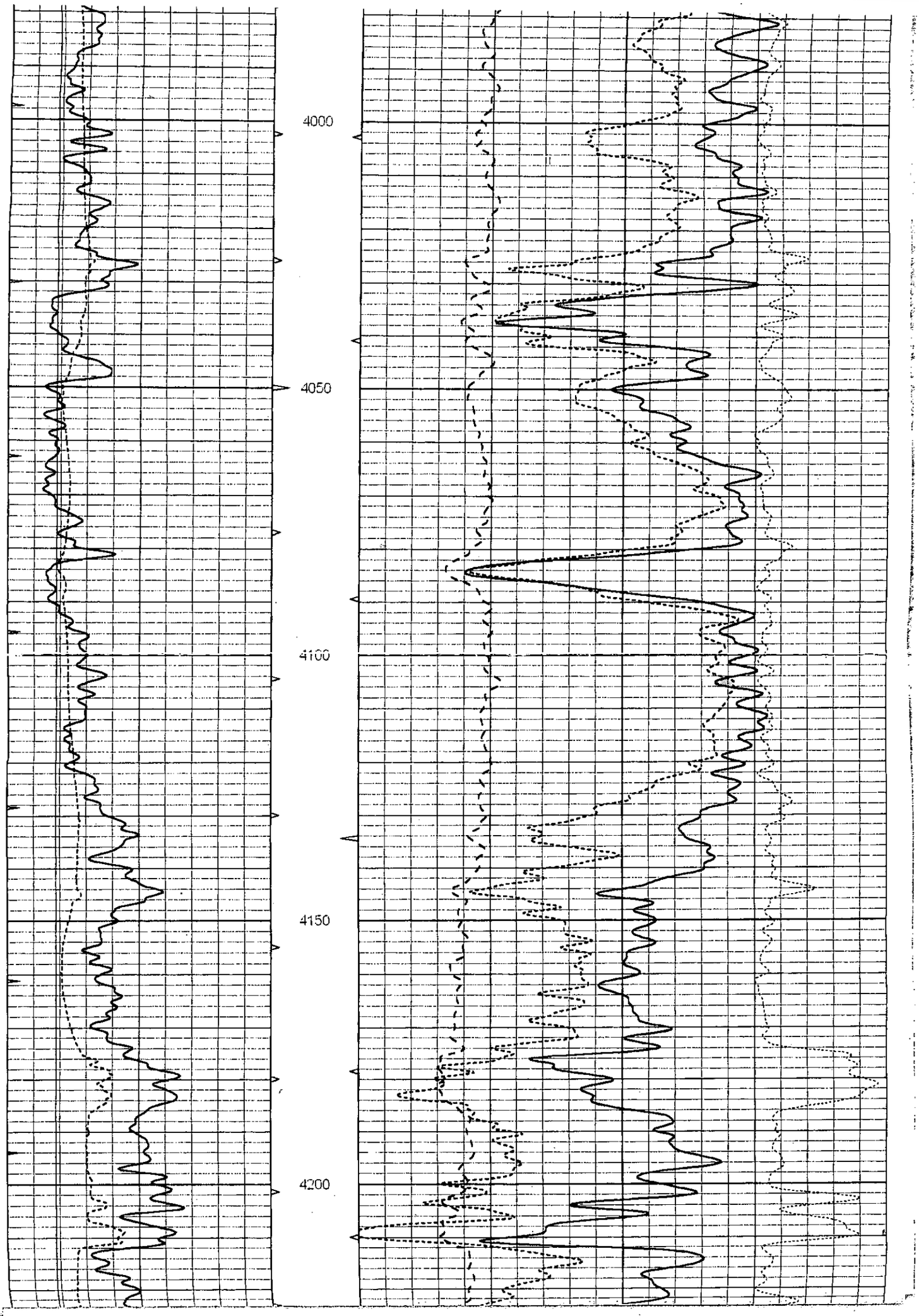
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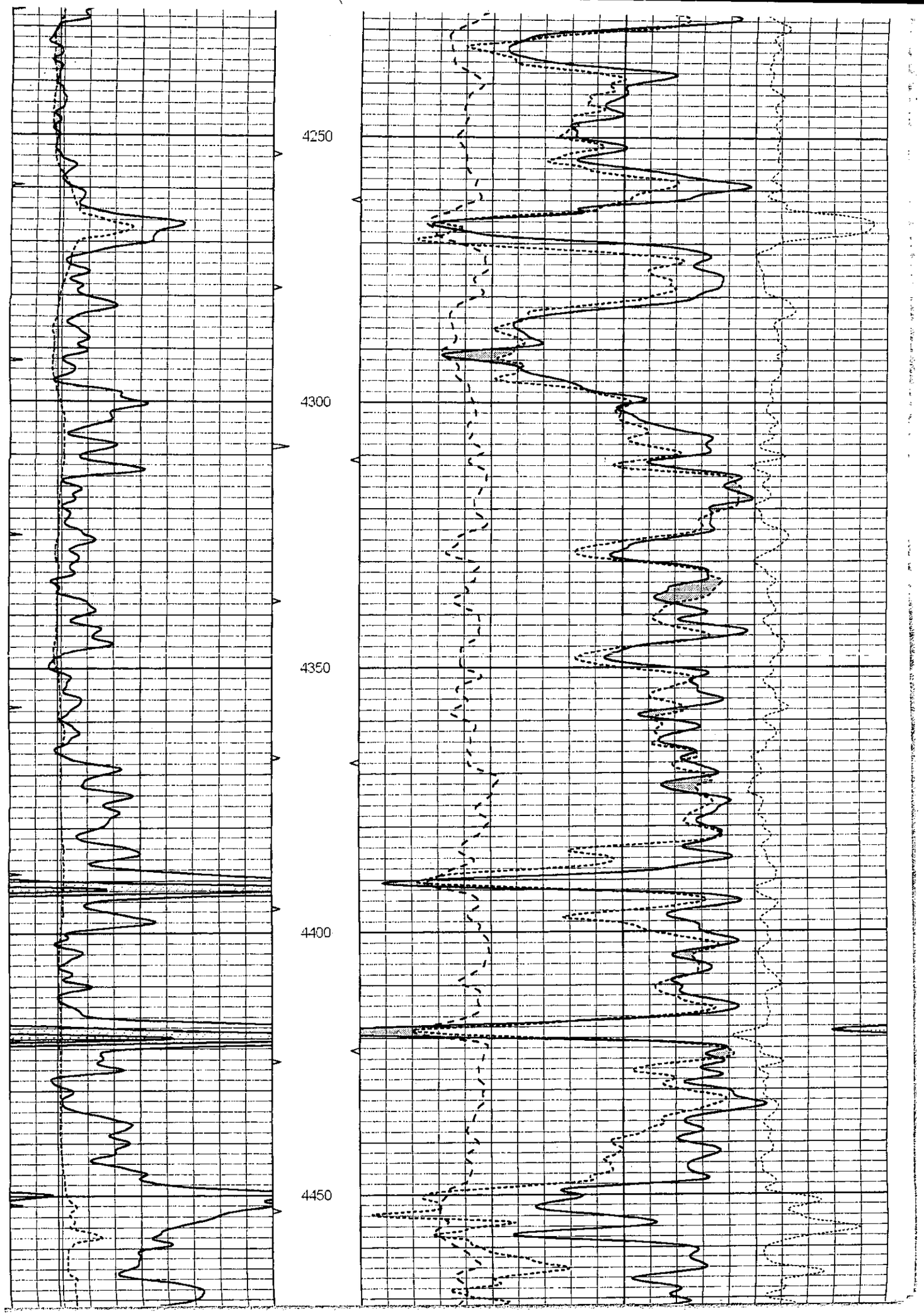
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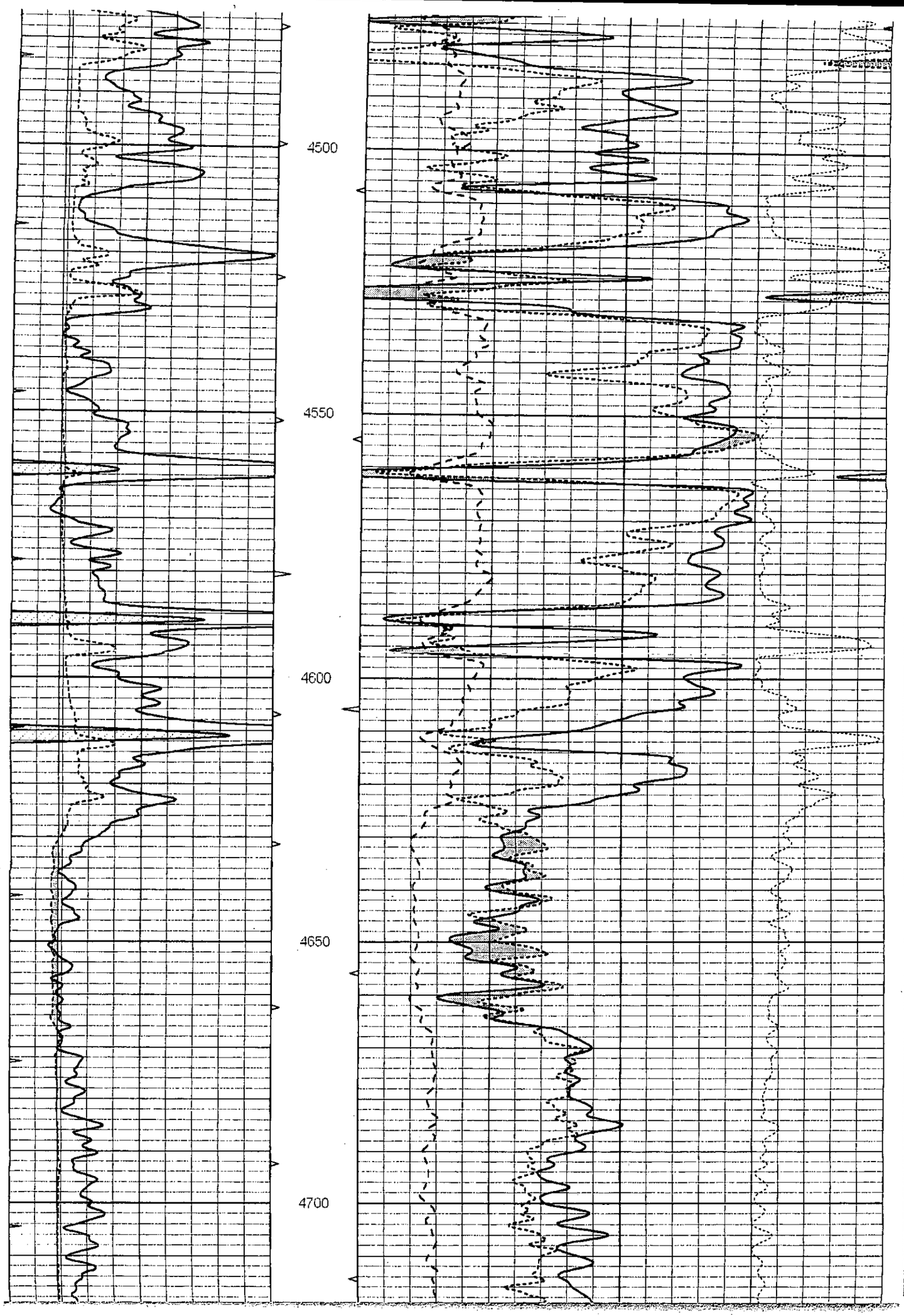
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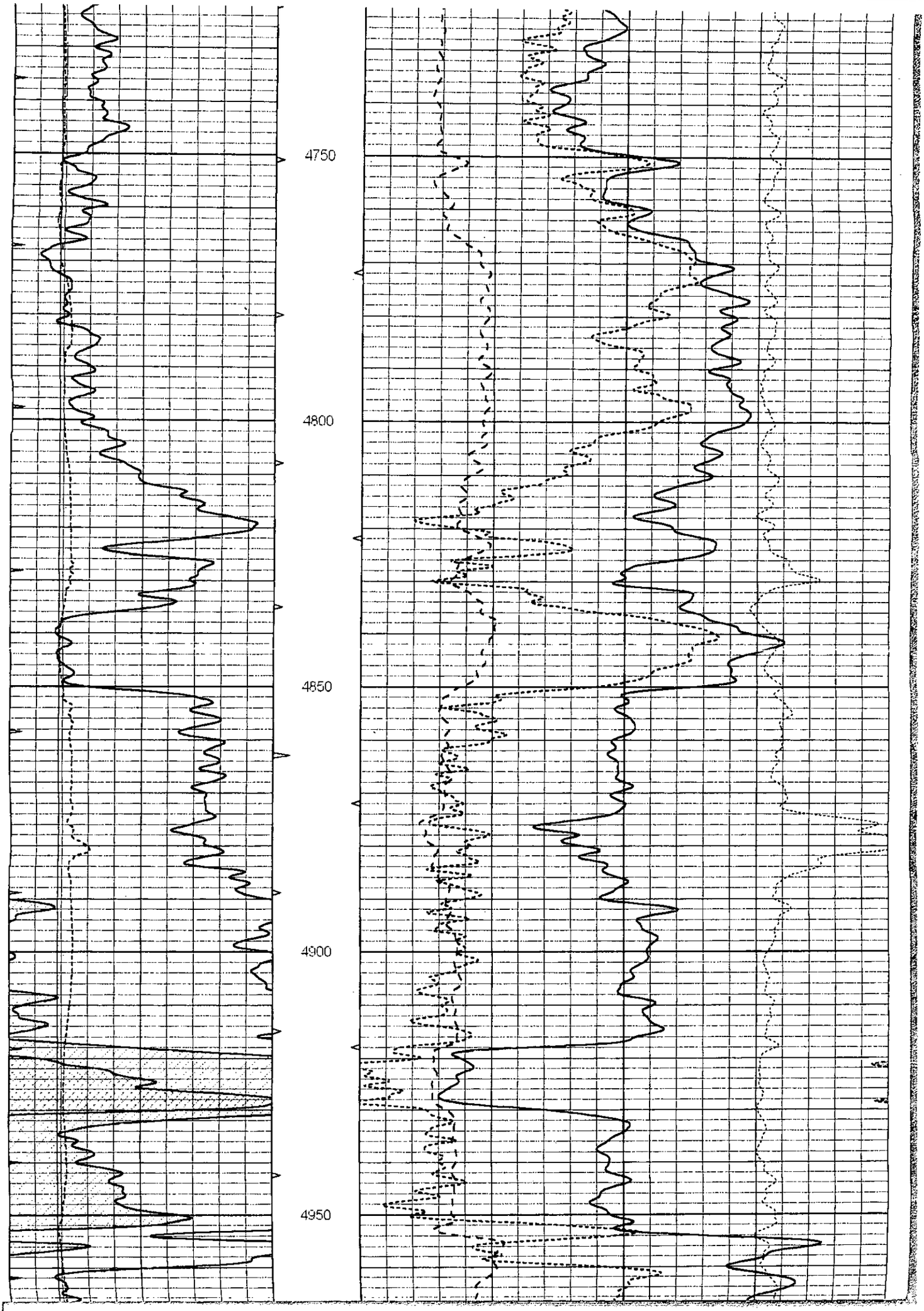
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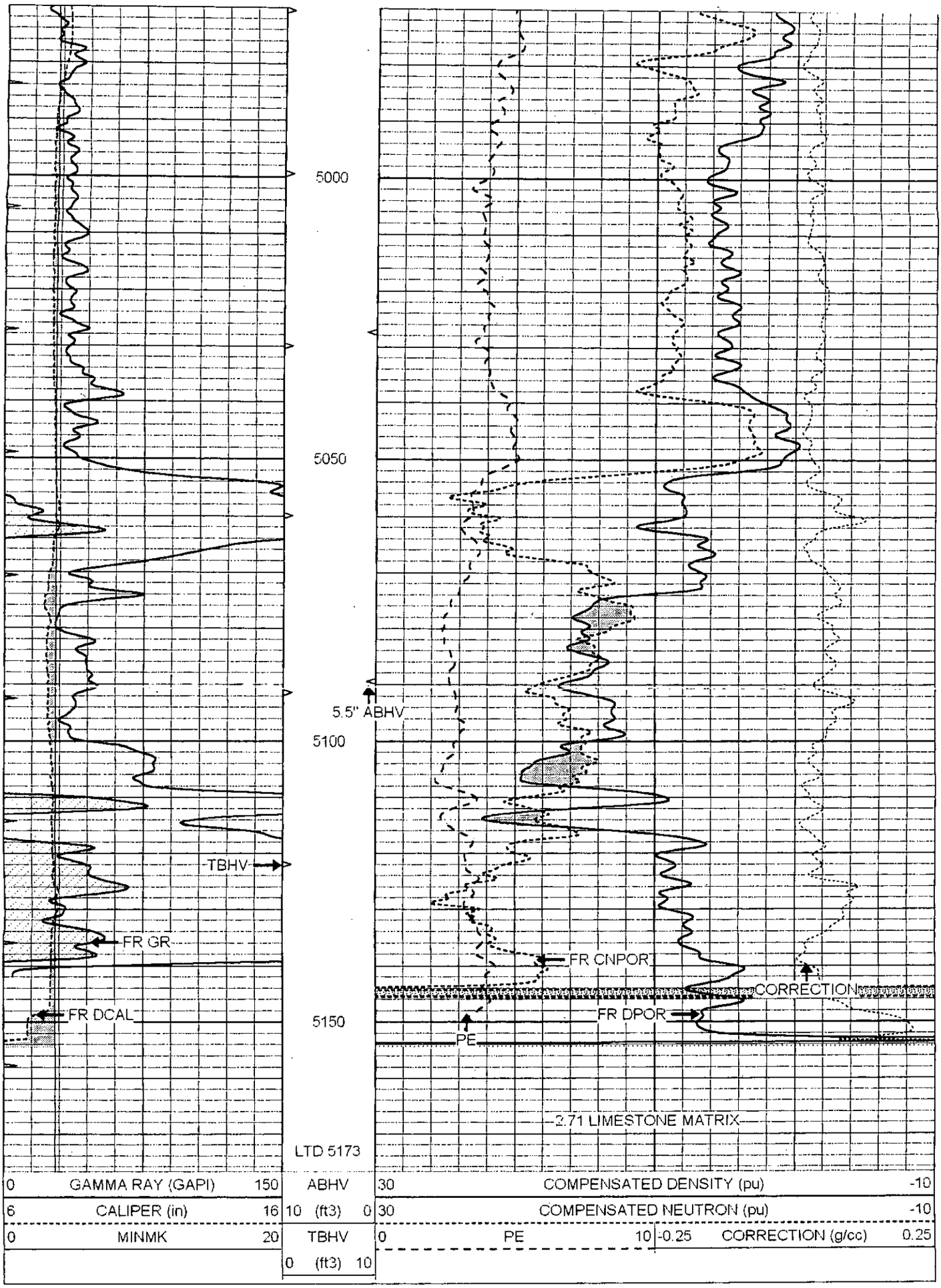


SUPERIOR WELL SERVICES

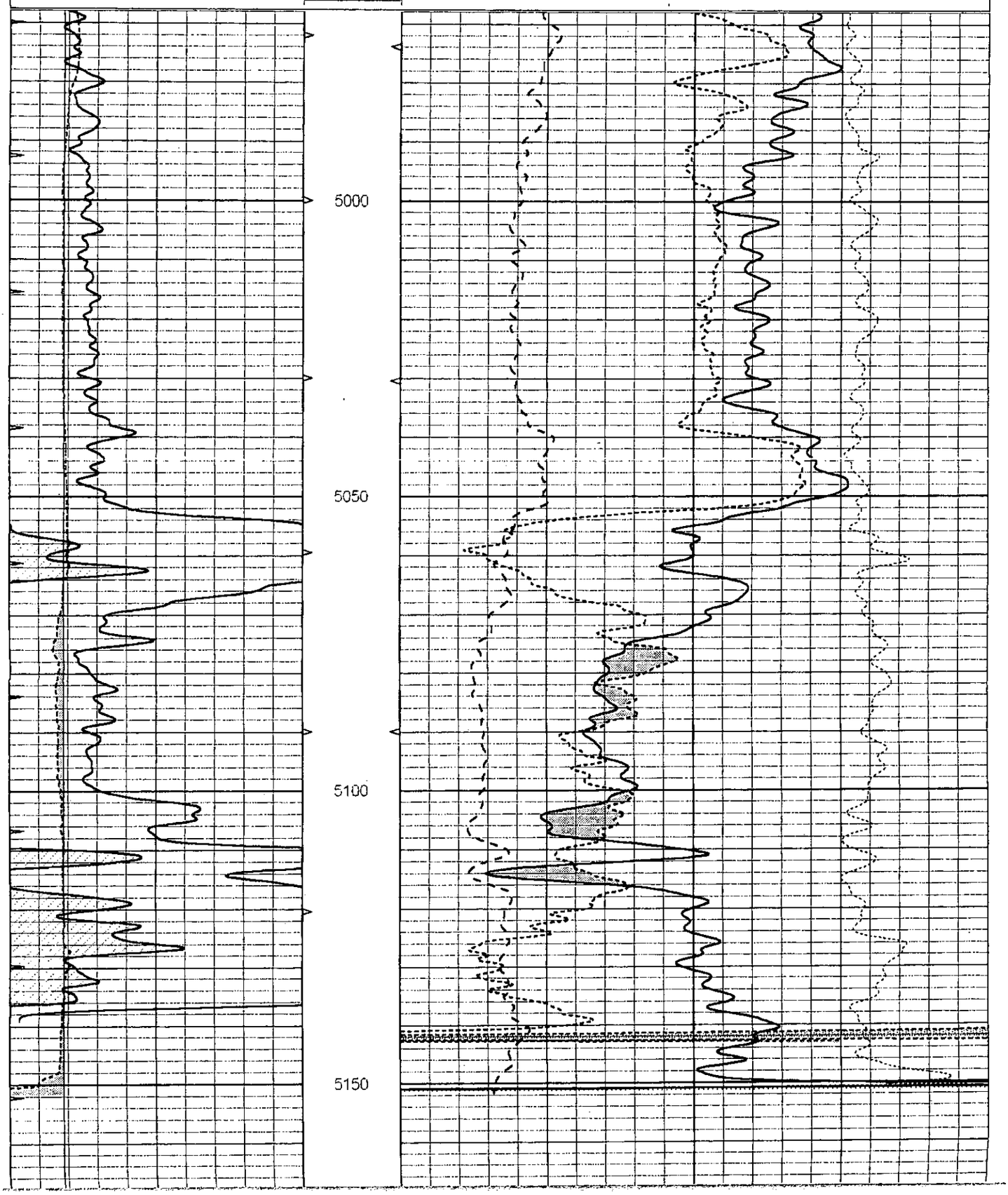
SUPERIOR

Hays

REPEAT SECTION

Database File:	006296pe.db
Dataset Pathname:	pass2.7
Presentation Format:	ldt_neu
Dataset Creation:	Wed Feb 23 14:07:26 2011 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
0	MINMK	20	TBHV	0	PE	10	-0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10				



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: 006296pe.db
Dataset Pathname: pass3.3
Dataset Creation: Wed Feb 23 14:04:32 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: DIL6-GEAR
Performed: Wed Feb 23 12:08:28 2011

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.001	0.644	V	0.000	400.000	mmho/m	660.000	-5.000
Medium	0.020	0.738	V	0.000	462.500	mmho/m	740.000	-21.000
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: 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	4.3	7.6
High Ref	6.3	14.0
	Gain: 3.2	Offset: -5.9

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: Wed Feb 23 13:00:10 2011

Calibrator Value: 200.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 189.0 cps

Sensitivity: 1.5000 GAPI/cps