SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

DUAL INDUCTION LOG

Company OIL PRODUCERS, INC. OF KANSAS
Well LAURITA #1
Field SCHMEIDLER
County ELLIS State KANSAS
Location: API # : 15-051-26076-0000
2160' FSL & 620' FEL
SW - NE - NE - SE
SEC 30 TWP 12S RGE 17W

Other Services: CDL/CNL/PE

Elevation: K.B. 2102 D.F. 2100 G.L. 2097

Permanent Datum GROUND LEVEL Elevation 2097
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Company	OIL PRODUCERS, INC. OF KS.		
Well	LAURITA #1		
Field	SCHMEIDLER		
County	ELLIS		
State	KANSAS		
Date	1/17/11		
Run Number	ONE		
Depth Driller	3760		
Depth Logger	3758		
Bottom Logged Interval	3756		
Top Log Interval	00		
Casing Driller	8 5/8"@256'		
Casing Logger	258		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 3,800 PPM	
Density / Viscosity	9.3/59		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.850@60F		
Rmf @ Meas. Temp	.638@60F		
Rmc @ Meas. Temp	1.02@60F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.447@114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	1:30 P.M.		
Maximum Recorded Temperature	114F		
Equipment Number	0836		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	JON CHRISTENSEN		

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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
CATHERINE, KS. 2W. TO CURVE, 3 1/2N., W. INTO

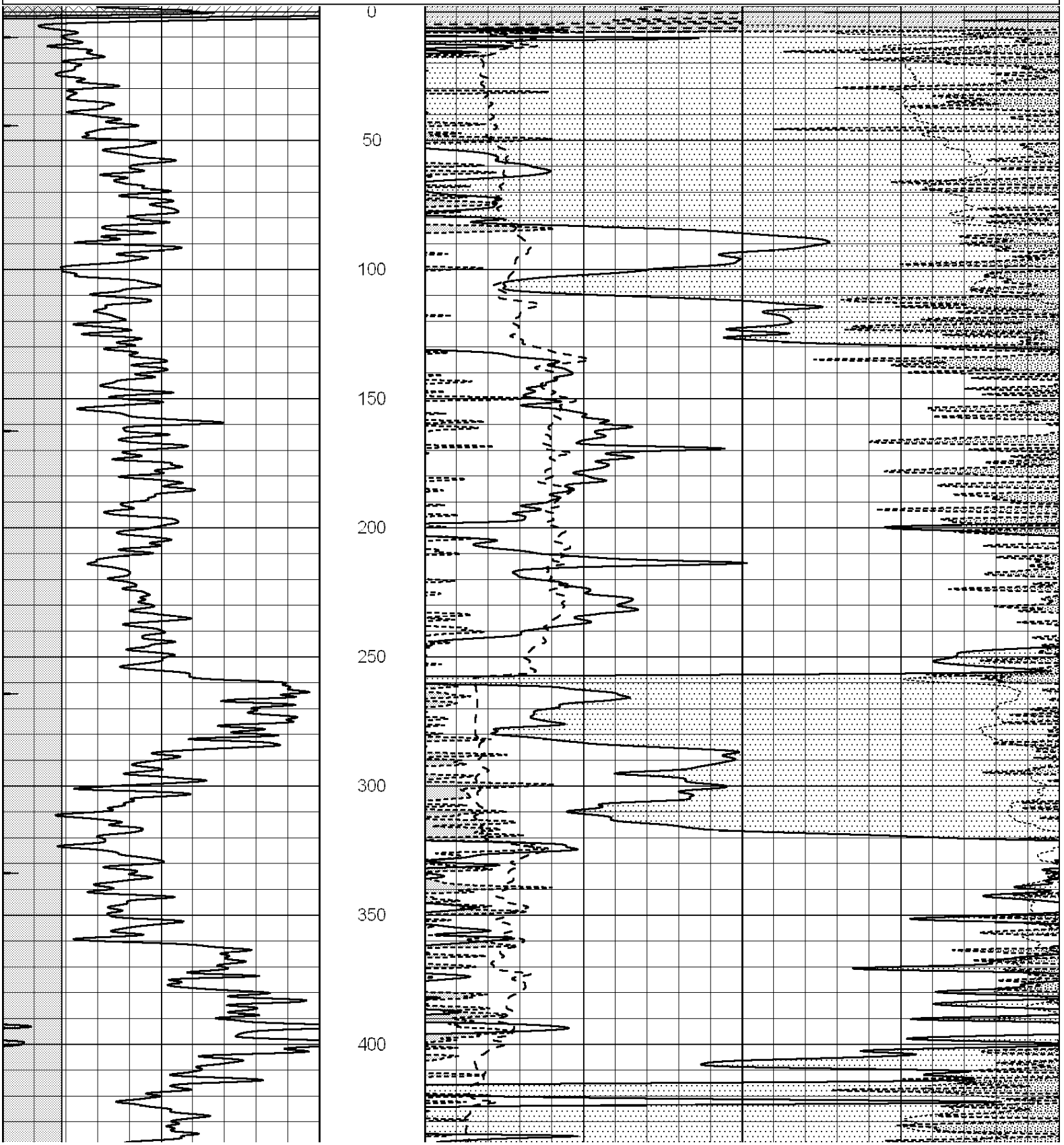
SUPERIOR WELL SERVICES

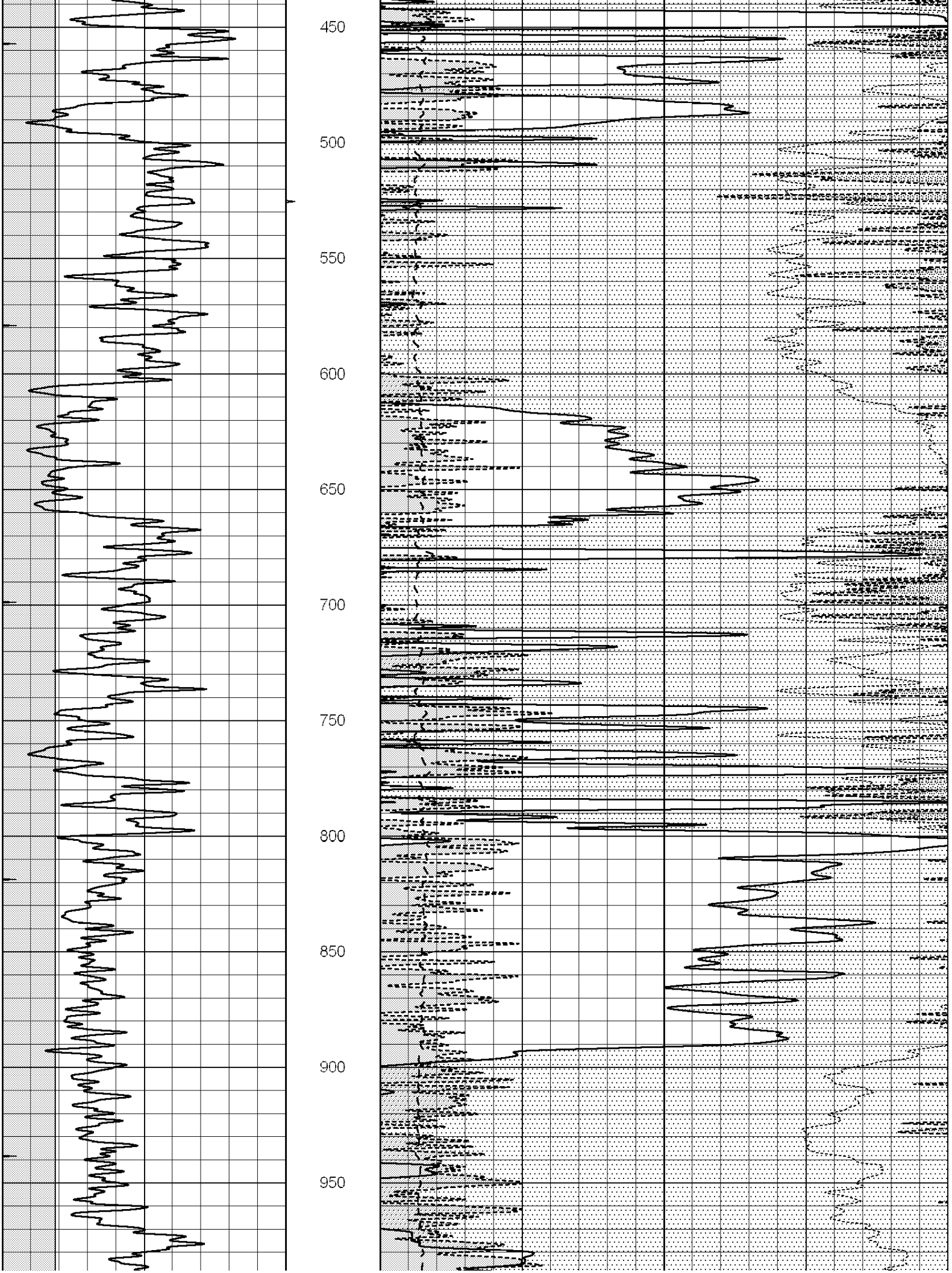
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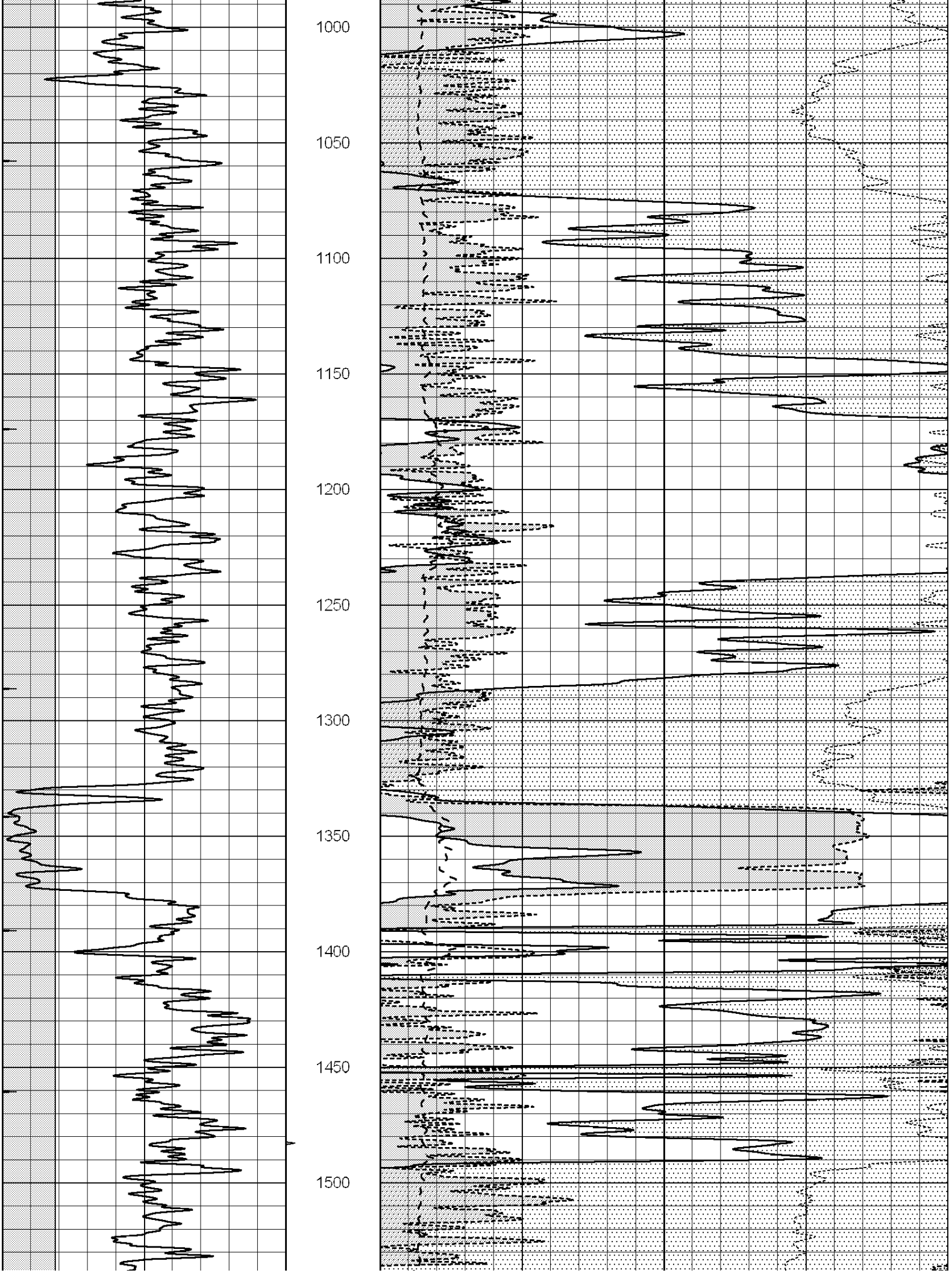
MAIN SECTION

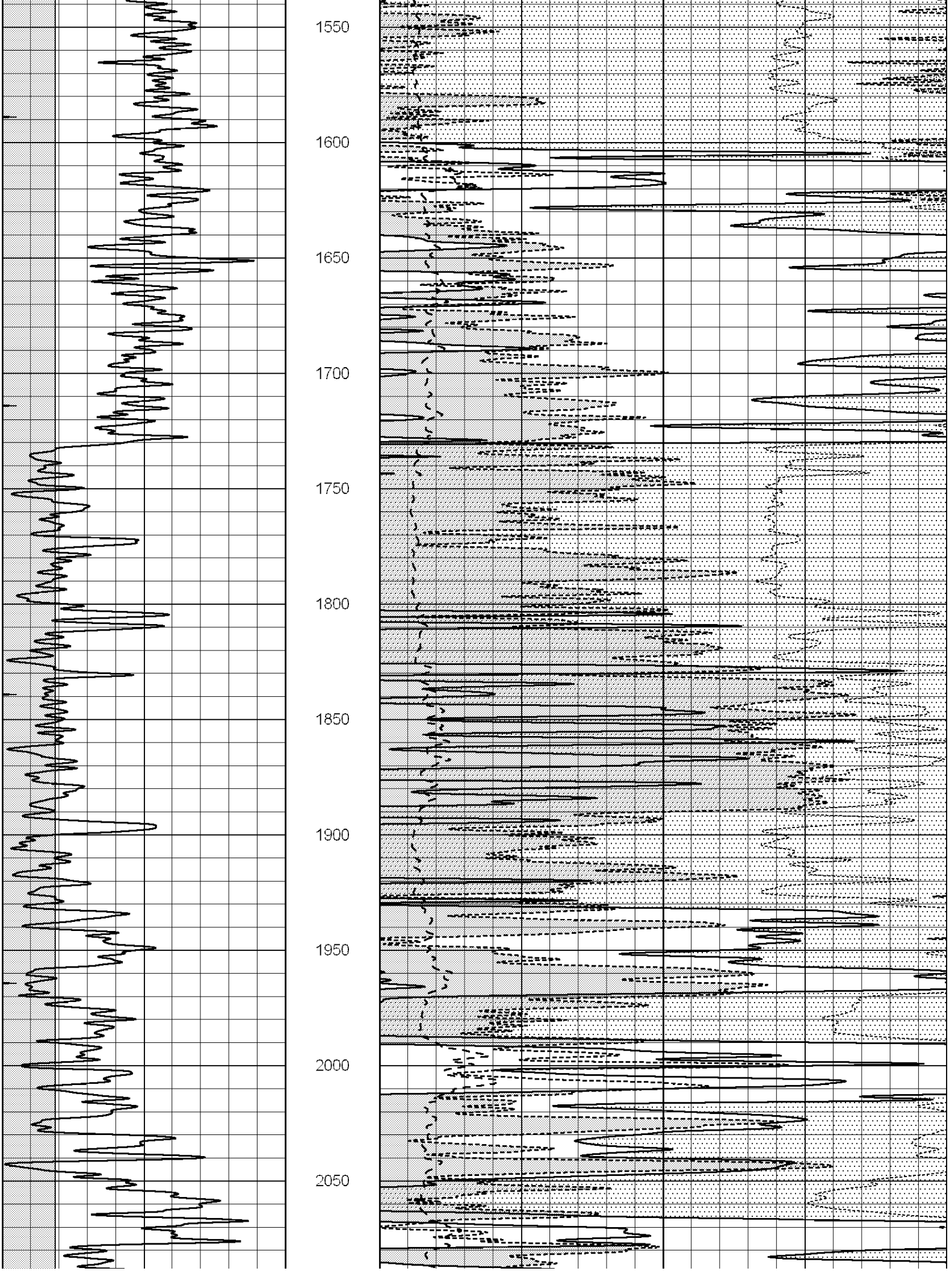
Database File:	006270pe.db
Dataset Pathname:	pass3.5
Presentation Format:	ldt_neu
Dataset Creation:	Mon Jan 17 14:42:36 2011 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:600

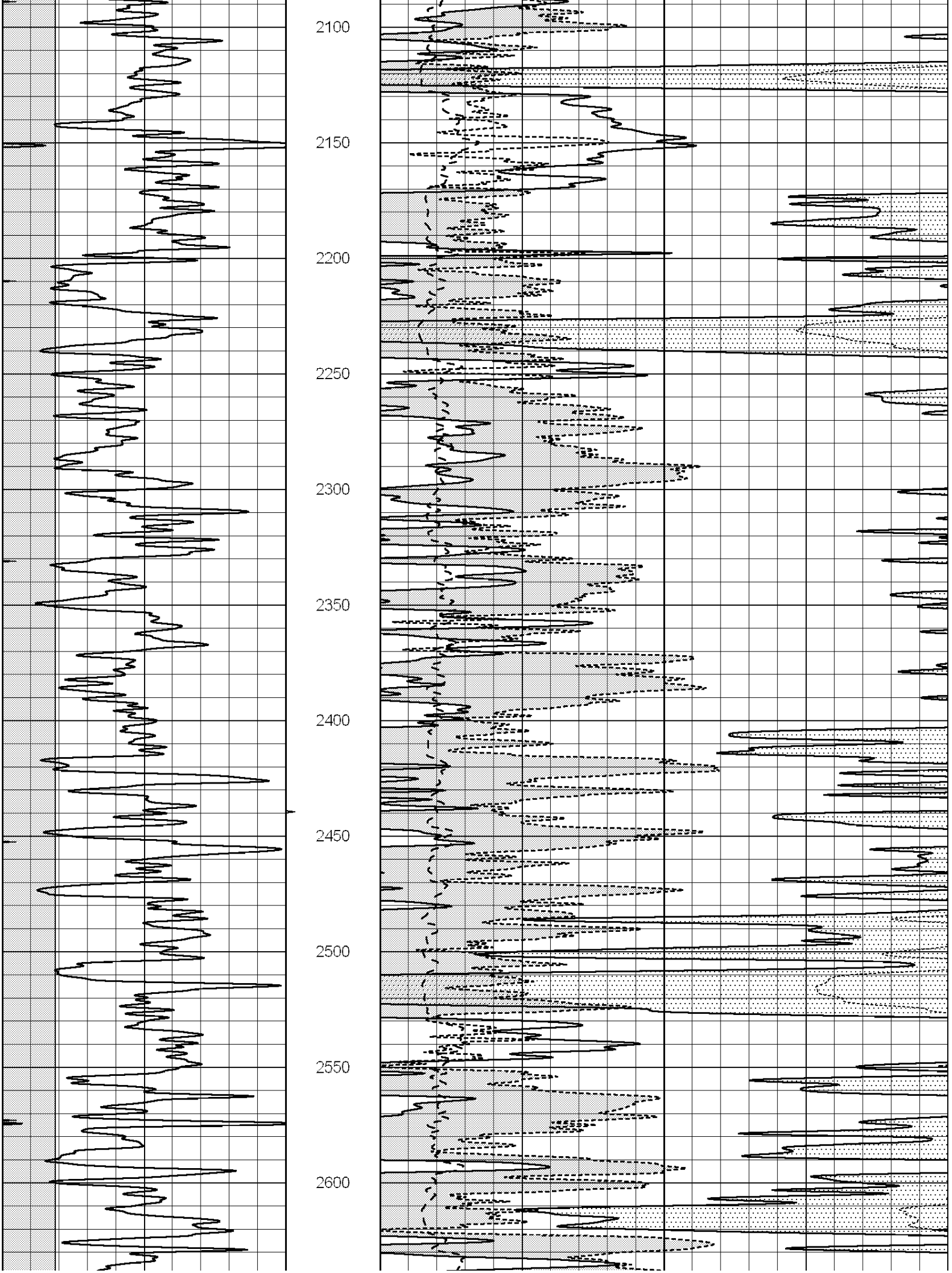
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6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu) -10
0	MINMK	20	TBHV	0	PE 10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10		

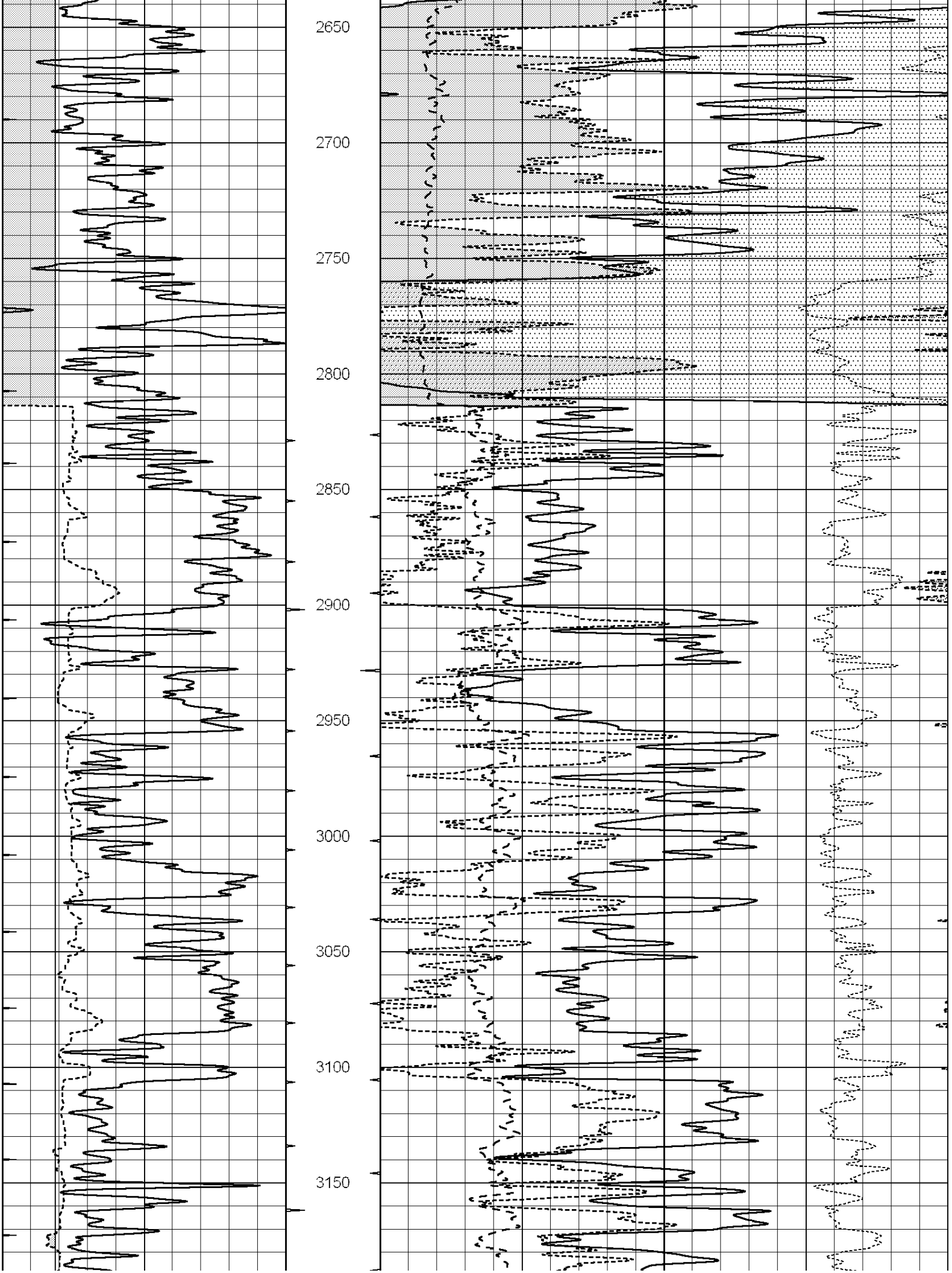


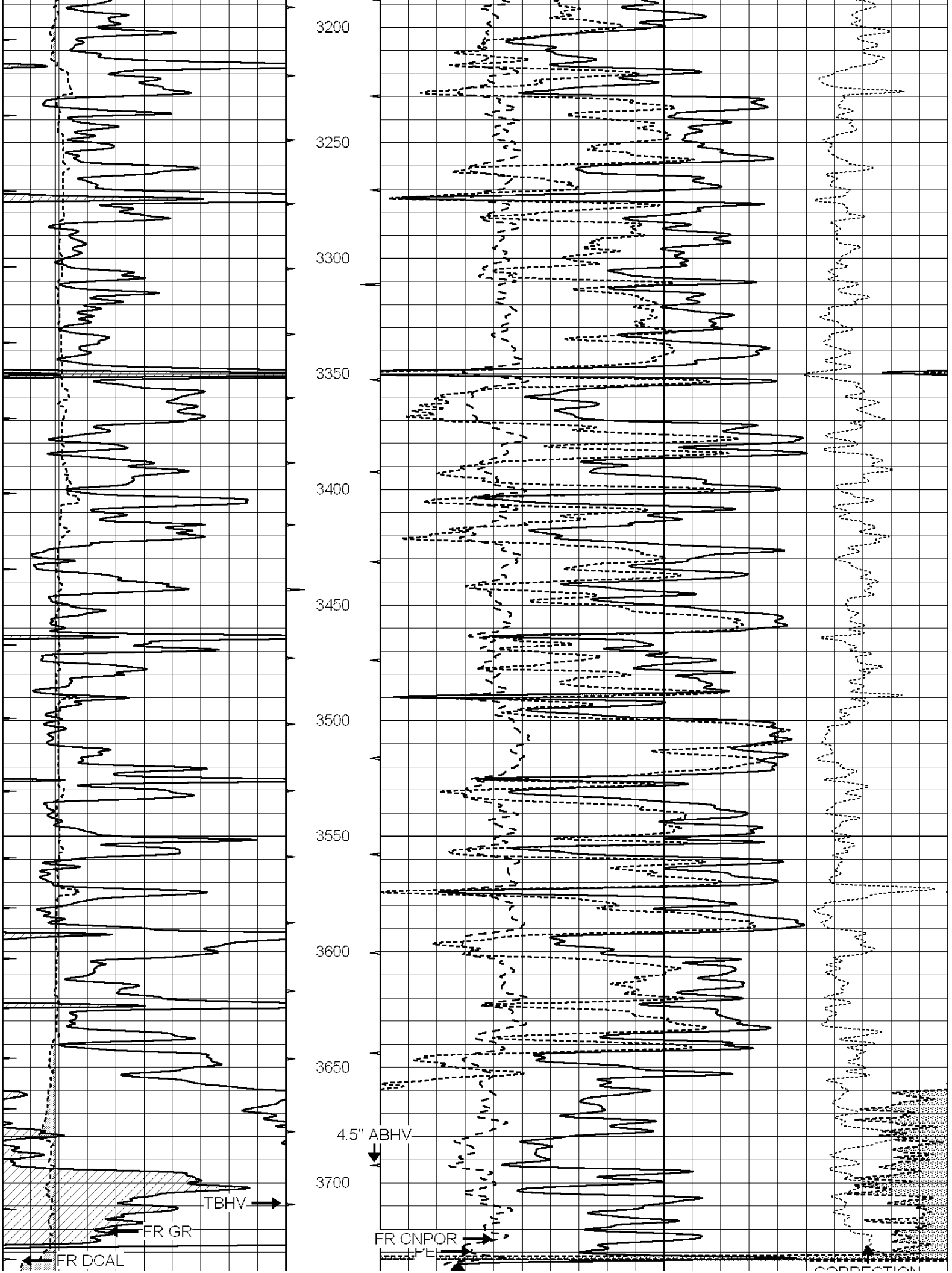

450
500
550
600
650
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750
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900
950


1000
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1100
1150
1200
1250
1300
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1400
1450
1500


1550
1600
1650
1700
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1800
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1900
1950
2000
2050


2100
2150
2200
2250
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2350
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2450
2500
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2600


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2700
2750
2800
2850
2900
2950
3000
3050
3100
3150


3200
3250
3300
3350
3400
3450
3500
3550
3600
3650
4.5" ABHV
3700
TBHV
FR GR
FR DCAL
FR CNPOR
CORRECTION

MINMK		3750 LTD 3758	FR DPOR	2.71 LIMESTONE MATRIX
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		

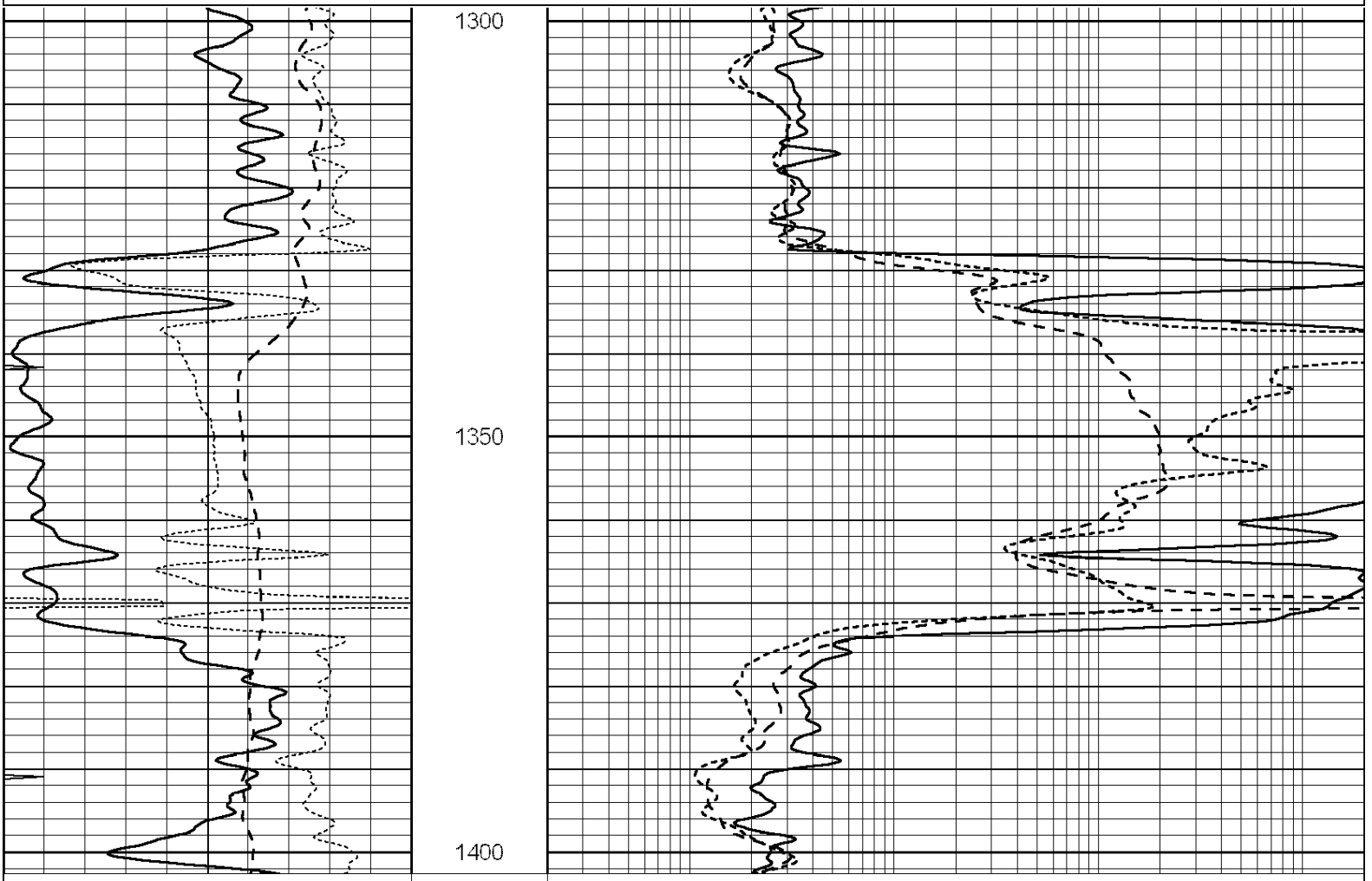
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ANHYDRITE

Database File: 006270pe.db
Dataset Pathname: pass3.6
Presentation Format: dil
Dataset Creation: Mon Jan 17 14:43:45 2011 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 150			0.2 SHALLOW GUARD (Ohm-m) 2000	
-100 SP (mV) 100			0.2 DEEP INDUCTION (Ohm-m) 2000	
-250 Rxo/Rt 50			0.2 MEDIUM INDUCTION (Ohm-m) 2000	
0 MINMK 10				



0 GAMMA RAY (GAPI) 150			0.2 SHALLOW GUARD (Ohm-m) 2000	
-100 SP (mV) 100			0.2 DEEP INDUCTION (Ohm-m) 2000	
-250 Rxo/Rt 50			0.2 MEDIUM INDUCTION (Ohm-m) 2000	

0	MINMK	10

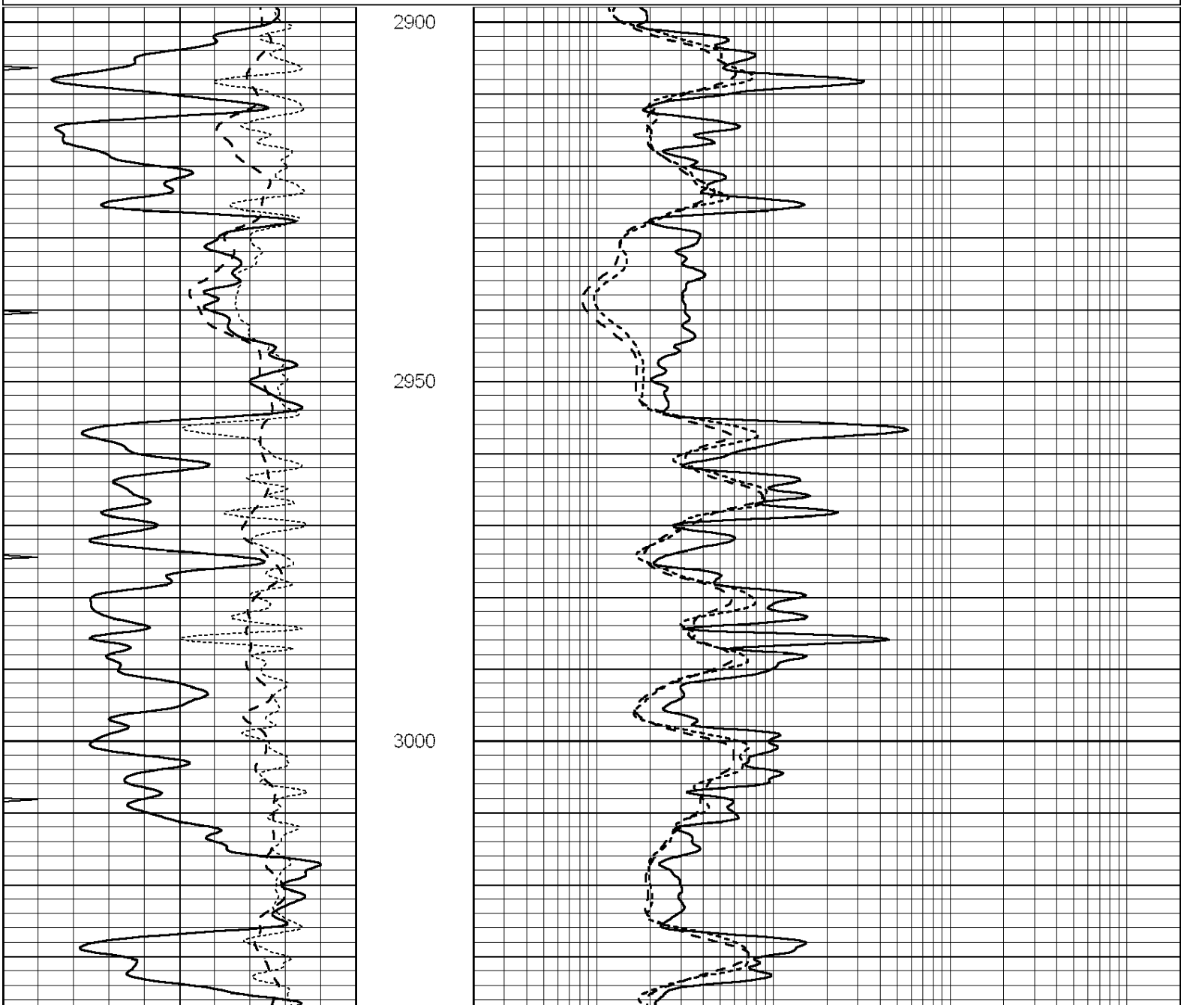
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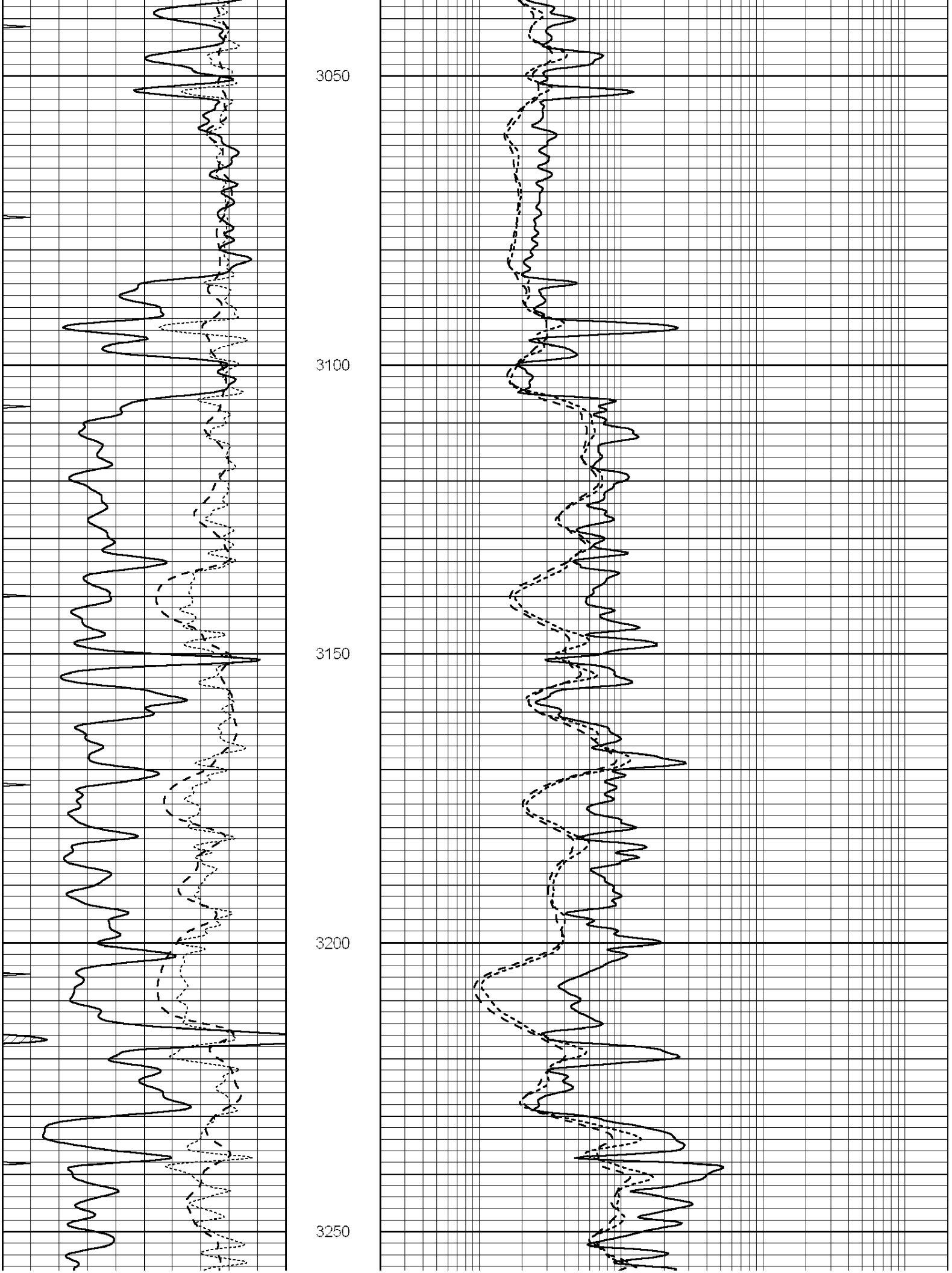
MAIN SECTION

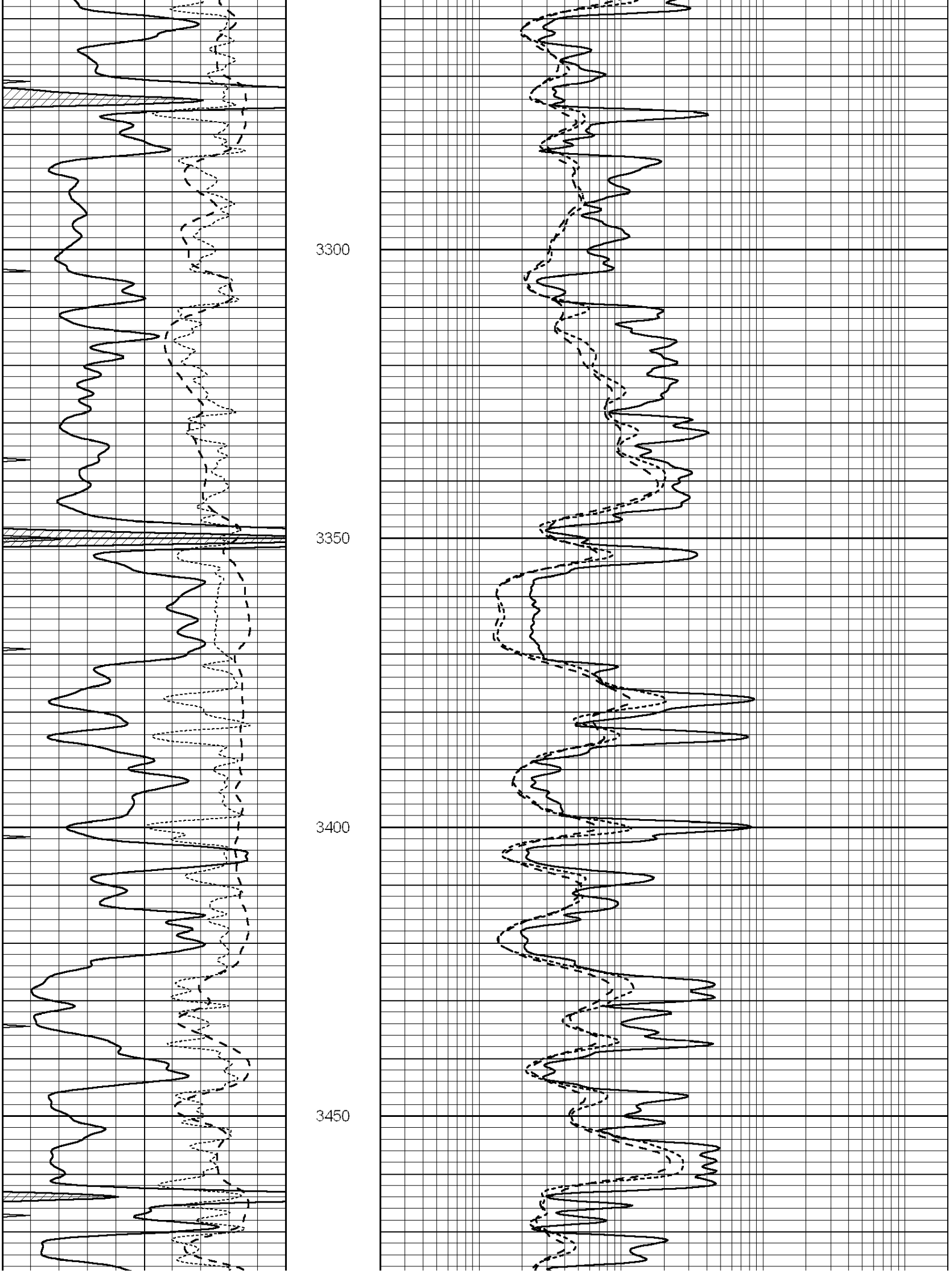
Database File:	006270pe.db
Dataset Pathname:	pass3.5
Presentation Format:	dil
Dataset Creation:	Mon Jan 17 14:42:36 2011 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

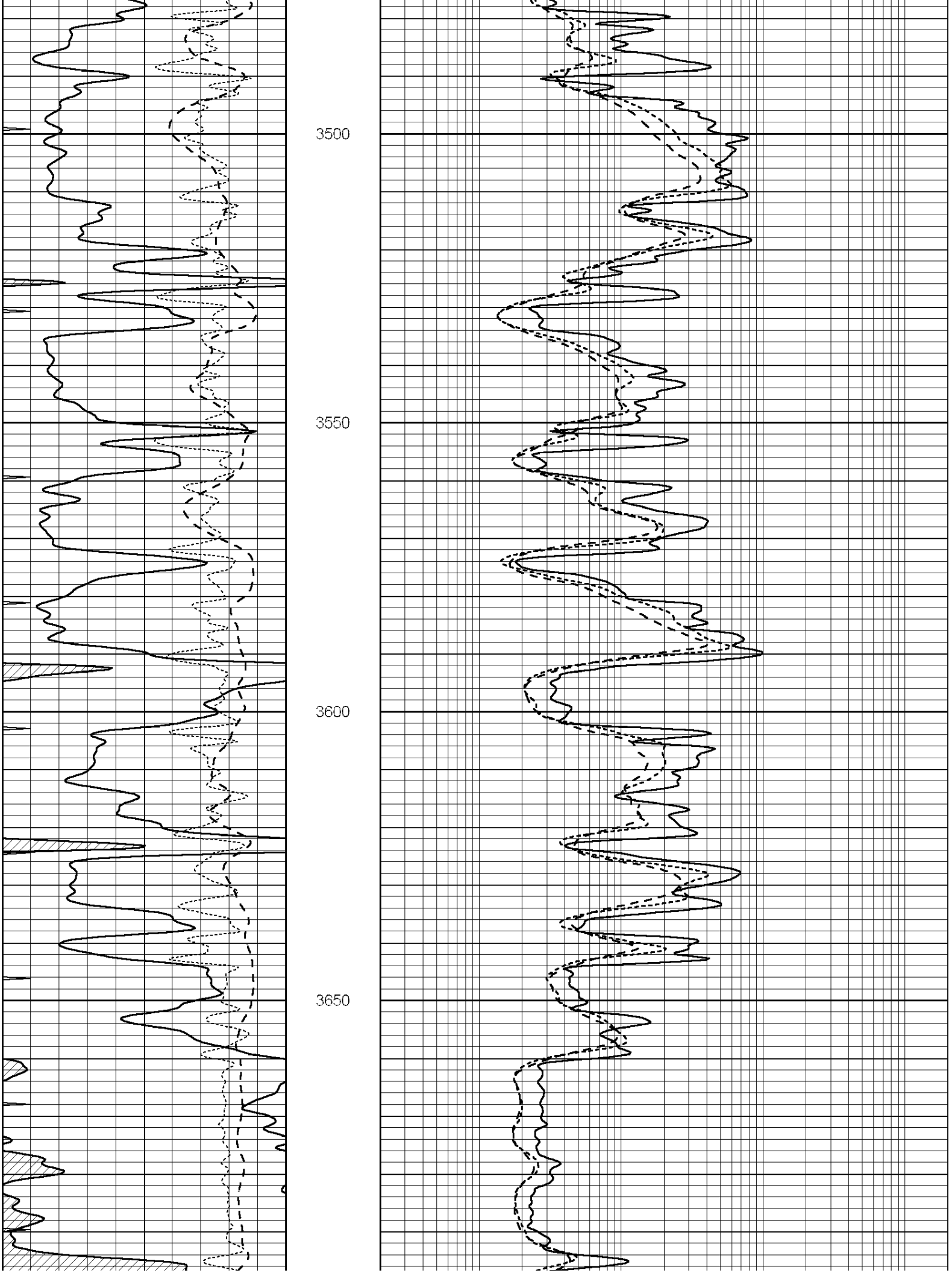
0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

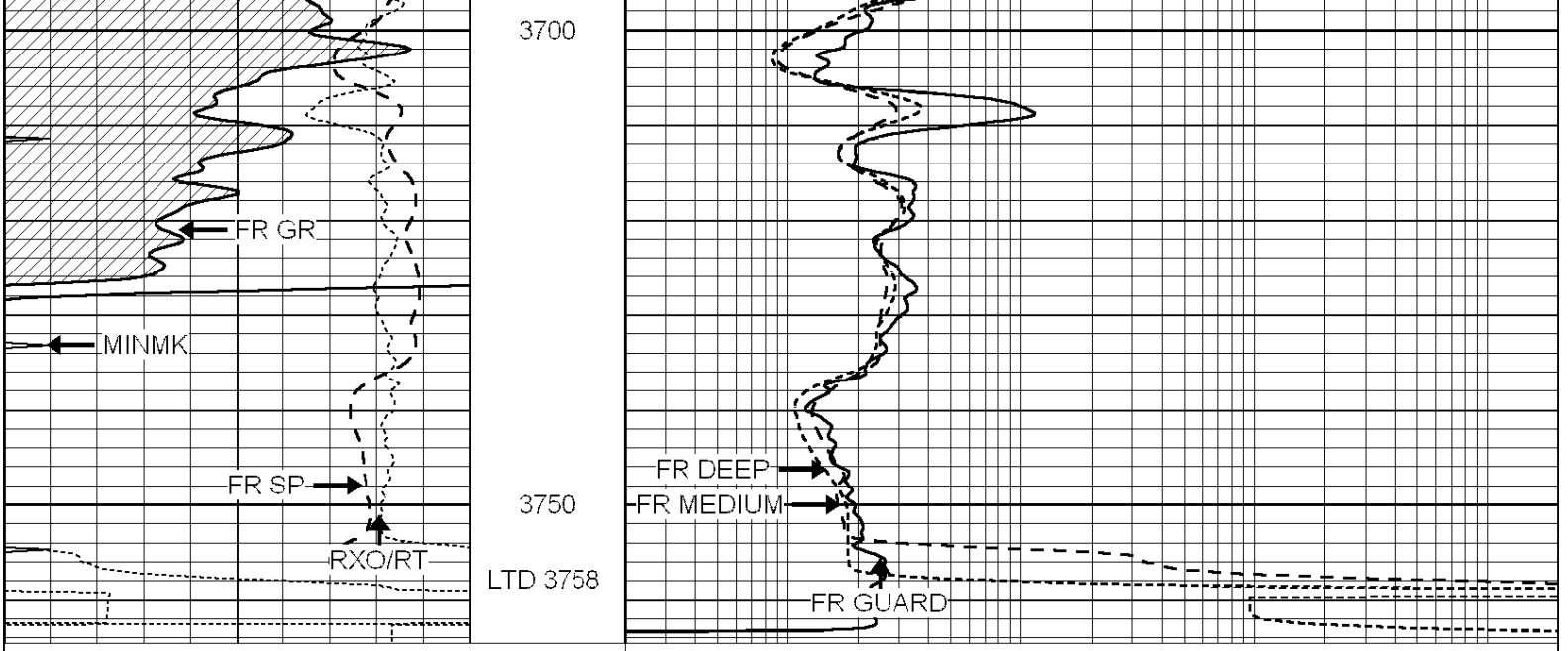
0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000




3050
3100
3150
3200
3250


3300
3350
3400
3450


3500
3550
3600
3650



0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000

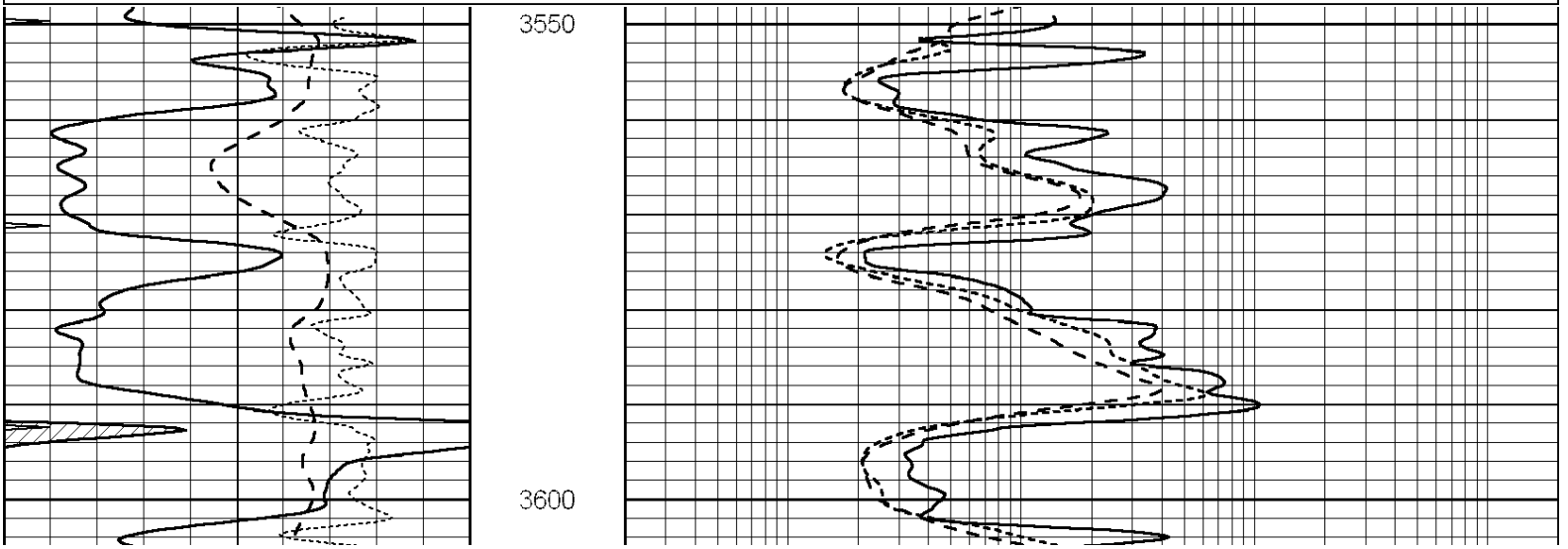
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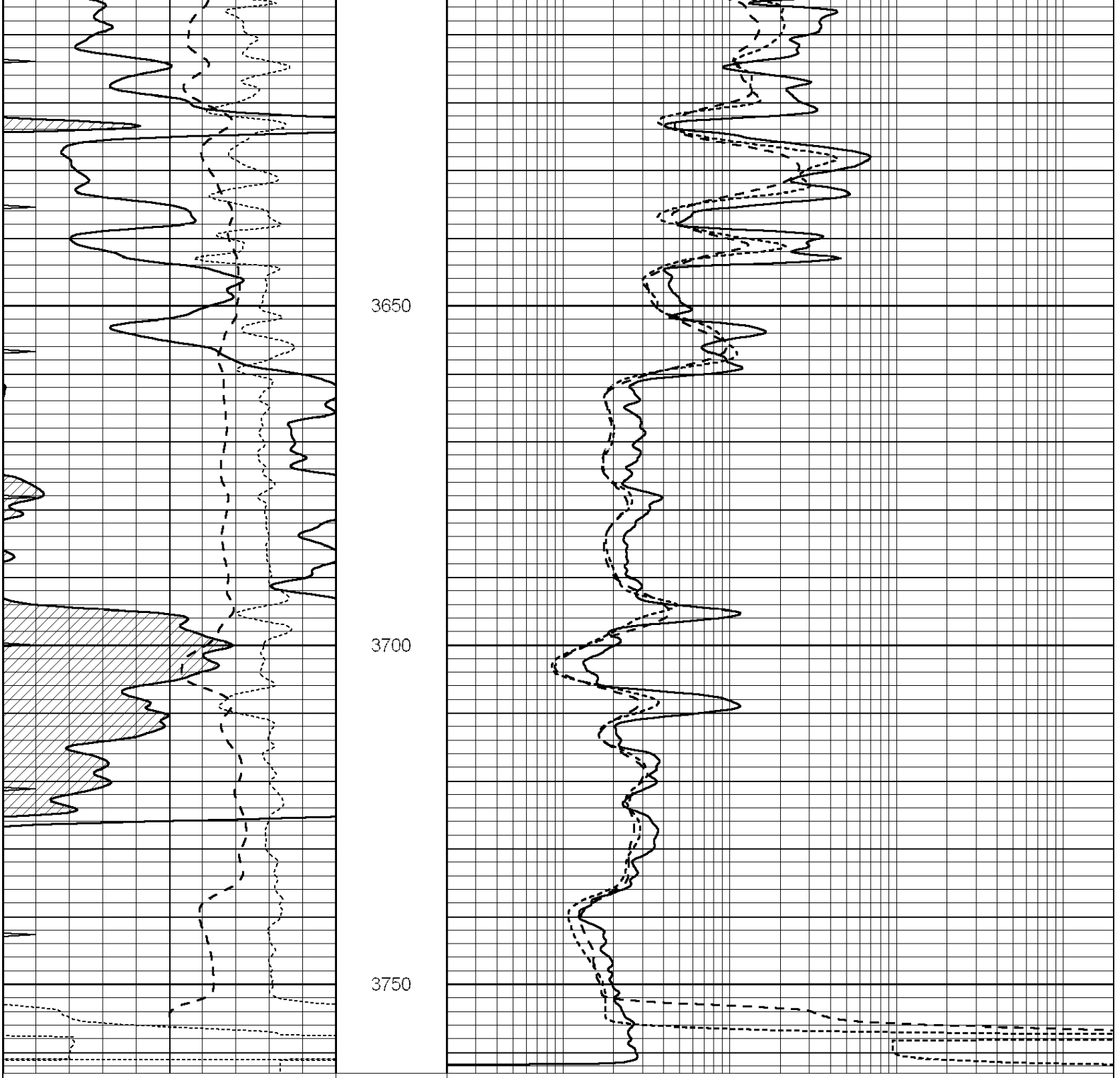
REPEAT SECTION

Database File:	006270pe.db
Dataset Pathname:	pass2.6
Presentation Format:	dil
Dataset Creation:	Mon Jan 17 14:49:52 2011 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150
-100	SP (mV)	100
-250	Rxo/Rt	50
0	MINMK	10

0.2	SHALLOW GUARD (Ohm-m)	2000
0.2	DEEP INDUCTION (Ohm-m)	2000
0.2	MEDIUM INDUCTION (Ohm-m)	2000





Calibration Report

Database File: 006270pe.db
Dataset Pathname: pass3.5
Dataset Creation: Mon Jan 17 14:42:36 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	DIL3-GEAR
Performed:	Fri Jan 14 14:29:55 2011

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	640.000	3.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	700.000	-15.000
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: 003N Model: PRB
Performed Tue Sep 08 14:14:44 2009

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2042.6	12312.8	4225.8	13758.4	cps
Window 2	1855.8	10134.7	3624.2	11113.1	cps
Window 3	1639.4	6760.2	2716.3	7260.3	cps
Window 4	466.4	469.2	466.1	476.5	cps
Long Space	0.0	8278.9	1768.4	9257.4	cps
Short Space	2.2	2377.3	1544.1	2574.2	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	

Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.549
Spine Angle	: 74.4	Spine Slope	: 3.577	Spine Intercept	: -18.8

Caliper

	Readings	Reference
Low Ref	1.8	6.3
High Ref	4.6	14.0

Gain: 2.7 Offset: 1.5

Compensated Neutron Calibration Report

Serial Number: NEU_3I
Tool Model: G

CALIBRATION

Detector	Readings		Target		Normalization
Short Space	997.00	cps	1000.00	cps	1.0000
Long Space	986.00	cps	1000.00	cps	1.0000

Gamma Ray Calibration Report

Serial Number: GR3
Tool Model: OPEN
Performed: Mon Jan 17 14:04:04 2011

Calibrator Value: 200.0 GAPI

Background Reading: 3.0 cps
Calibrator Reading: 186.0 cps

Sensitivity: 0.6000 GAPI/cps