



**SUPERIOR
Hays,
Kansas**

**COMPENSATED
DENSITY / NEUTRON
PE LOG**

Company	LOTUS OPERATING, INC.		
Well	#5 TERWORT		
Field			
County	BARBER	State	KANSAS
Location:	API # : 15-007-23689		Other Services DIL SONIC/MEL
SEC 34 TWP 34S RGE 12W		Elevation	
Permanent Datum	GROUND LEVEL	Elevation	1405
Log Measured From	KELLY BUSHING 13' A.G.L.	K.B.	1418
Drilling Measured From	KELLY BUSHING	D.F.	
		G.L.	1405
Date	5-22-11		
Run Number	ONE		
Depth Driller	5534		
Depth Logger	5535		
Bottom Logged Interval	5511		
Top Log Interval	3600		
Casing Driller	265		
Casing Logger	264		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 53		
pH / Fluid Loss	10.0 / 10.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.75 @ 88F		
Rmf @ Meas. Temp	0.56 @ 88F		
Rmc @ Meas. Temp	0.90 @ 88F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.510 @ 130F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	8:30 P.M.		
Maximum Recorded Temperature	130F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	TIM HELLMAN		

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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

SUPERIOR WELL SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: MEDICINE LODGE, S TO MM #7, 1W TO T IN THE ROAD, 1/8N, 1 3/4W, N INTO.

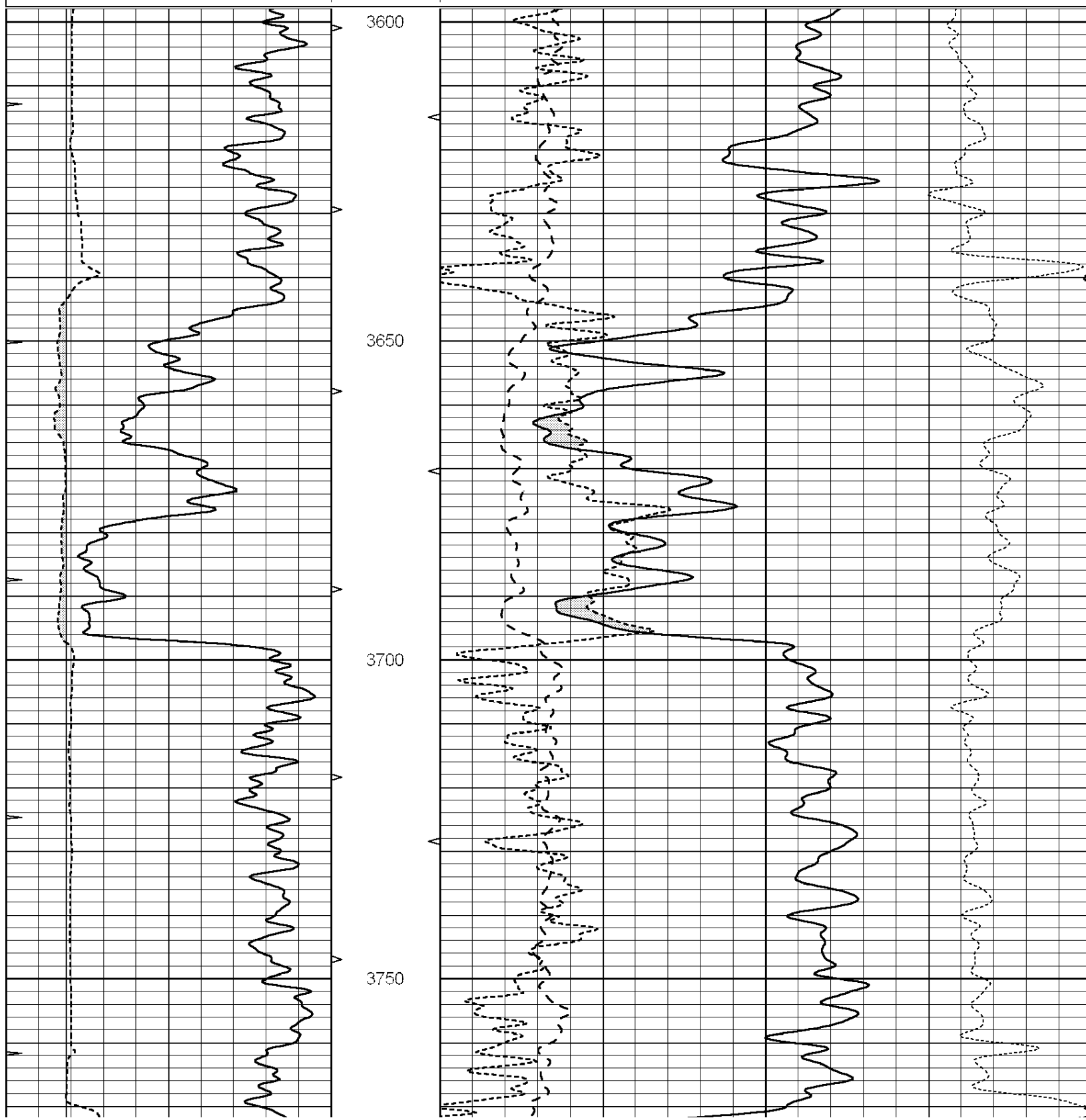


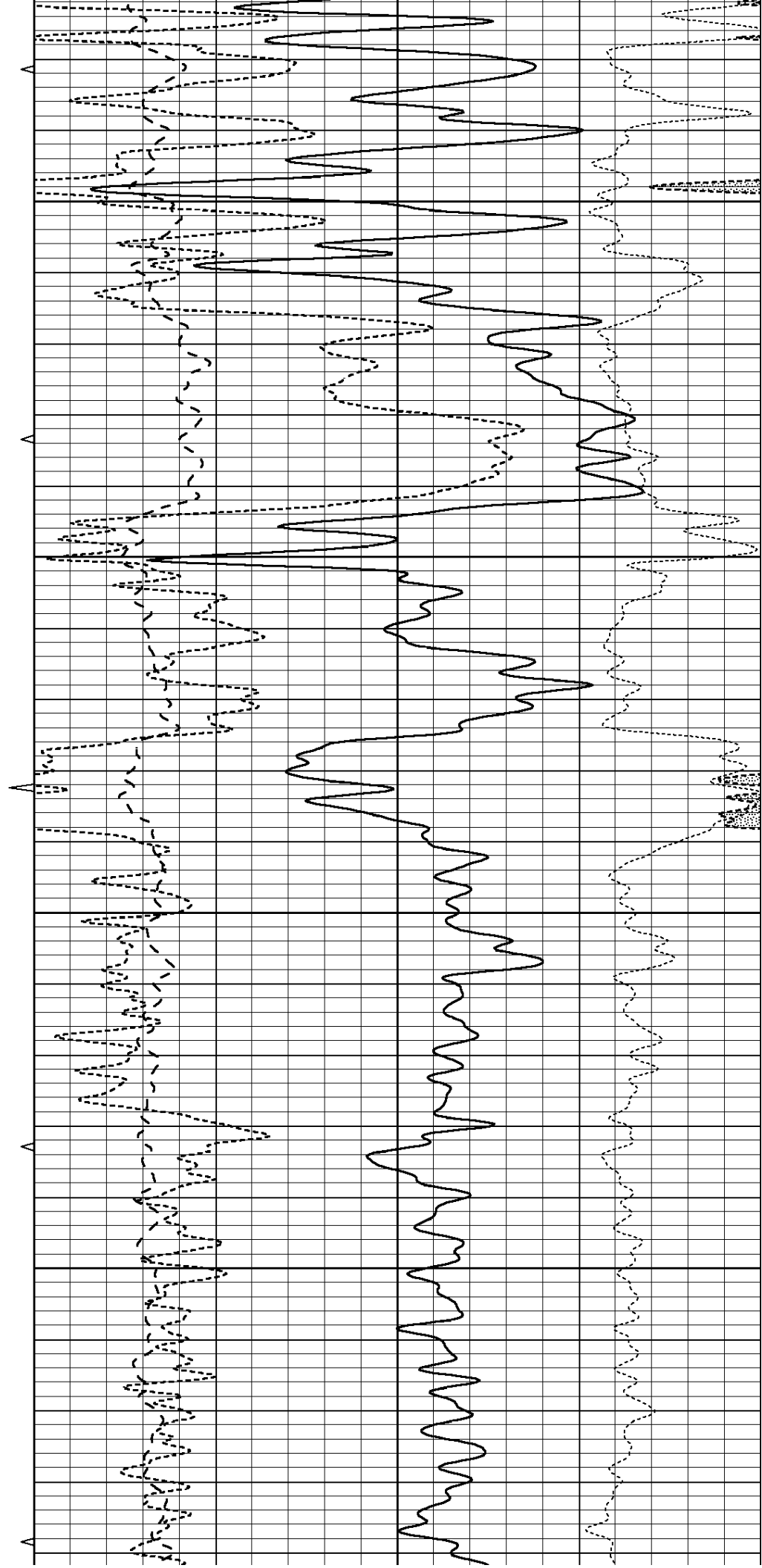
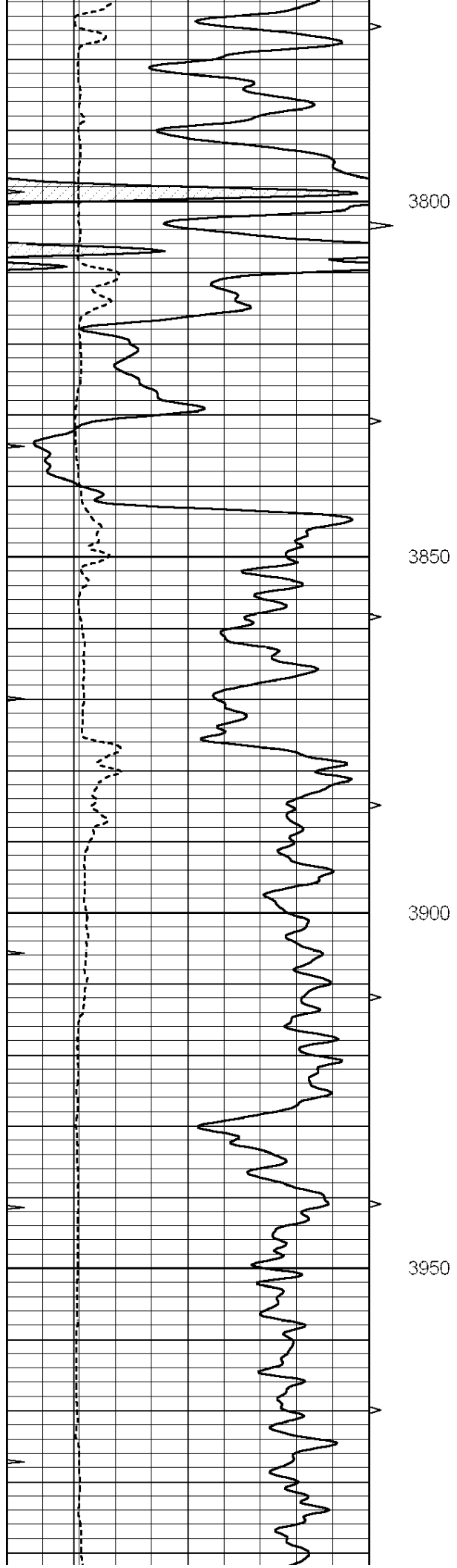
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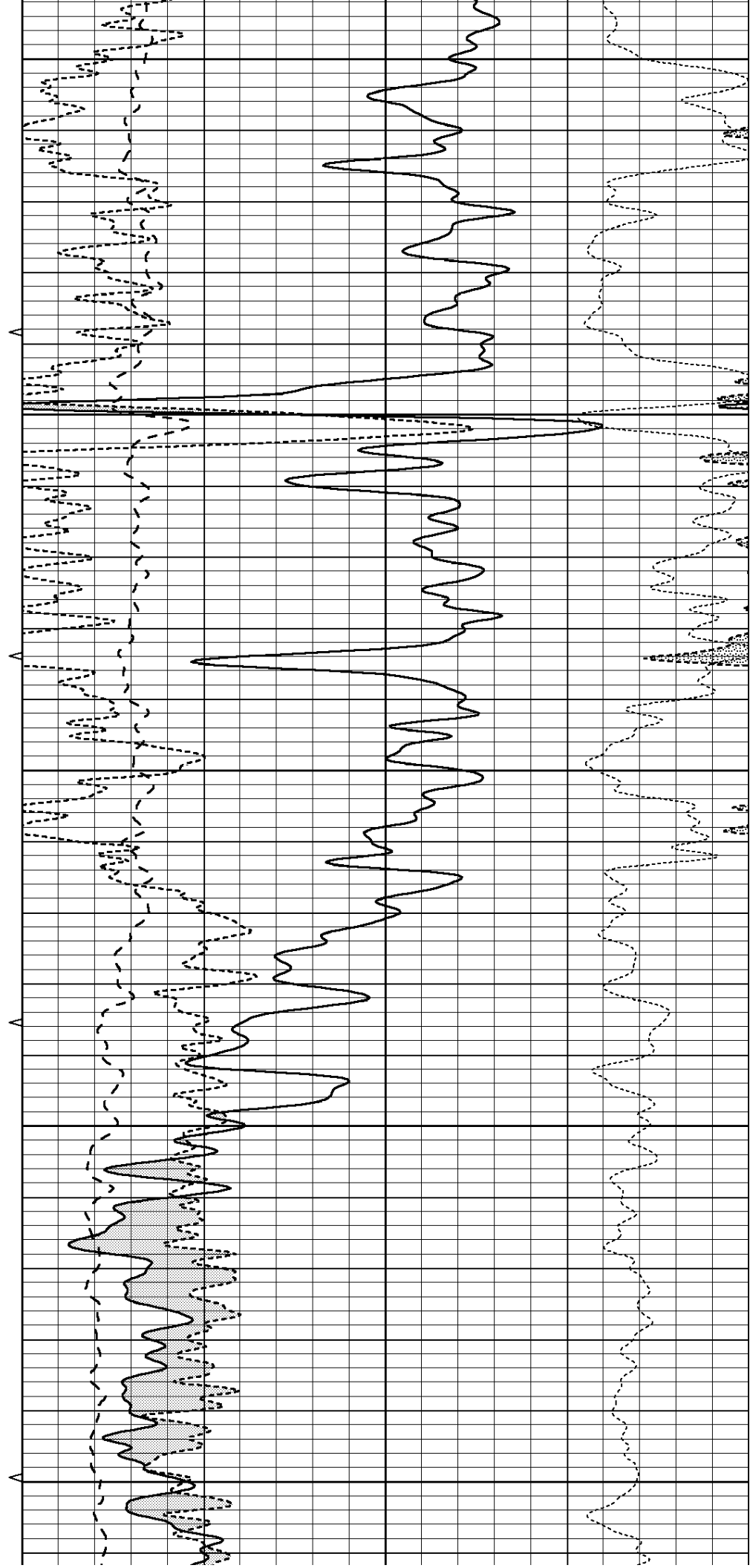
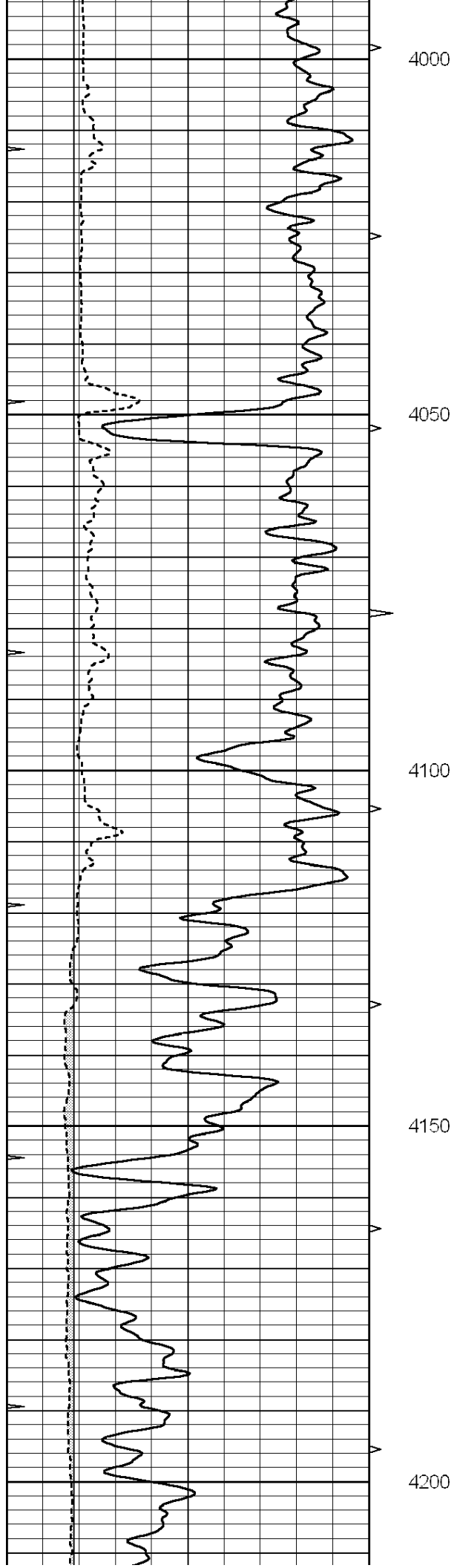
MAIN SECTION

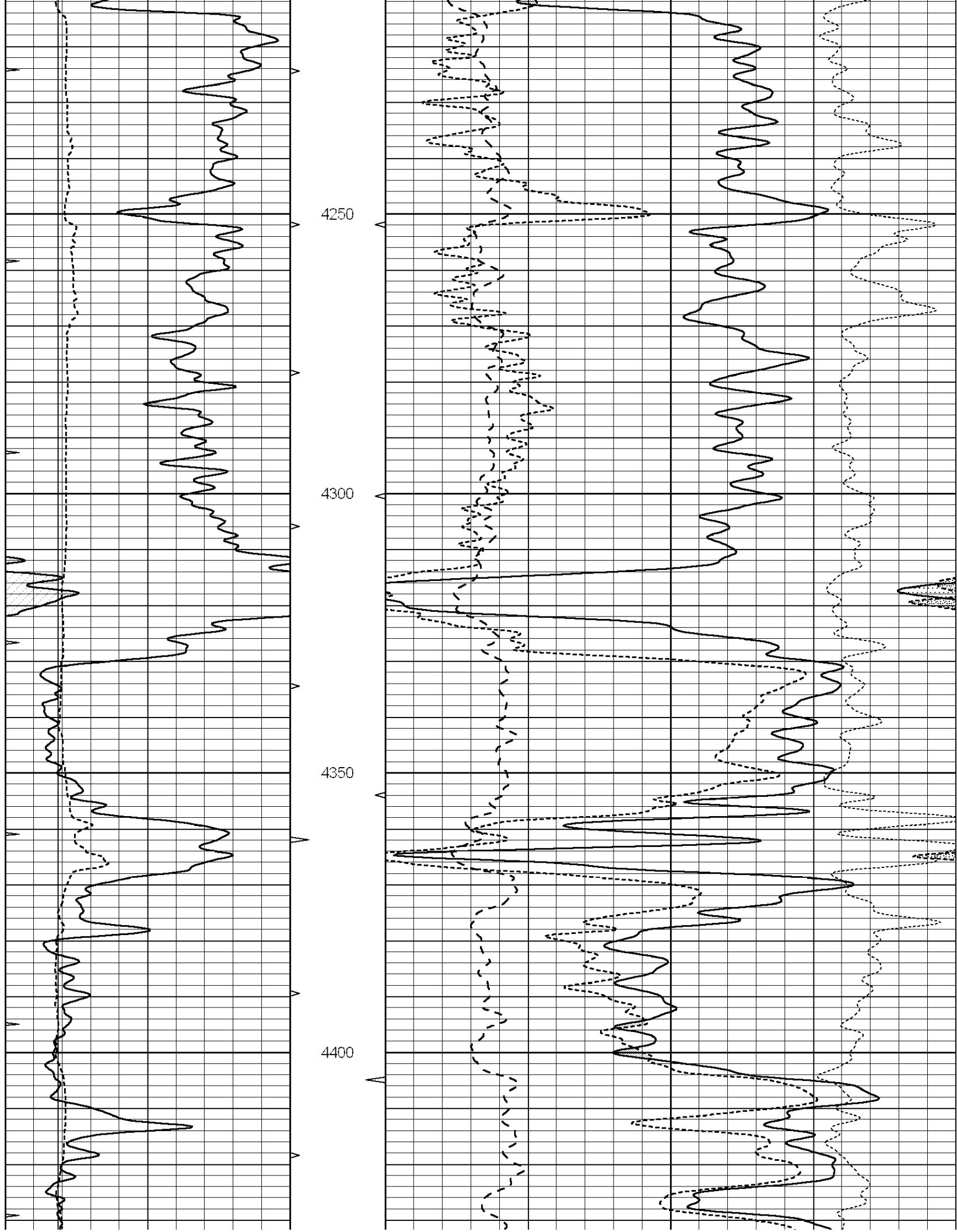
Database File: 006924pdn.db
Dataset Pathname: pass3.2
Presentation Format: ldt_neu
Dataset Creation: Sun May 22 23:51:45 2011
Charted by: Depth in Feet scaled 1:240

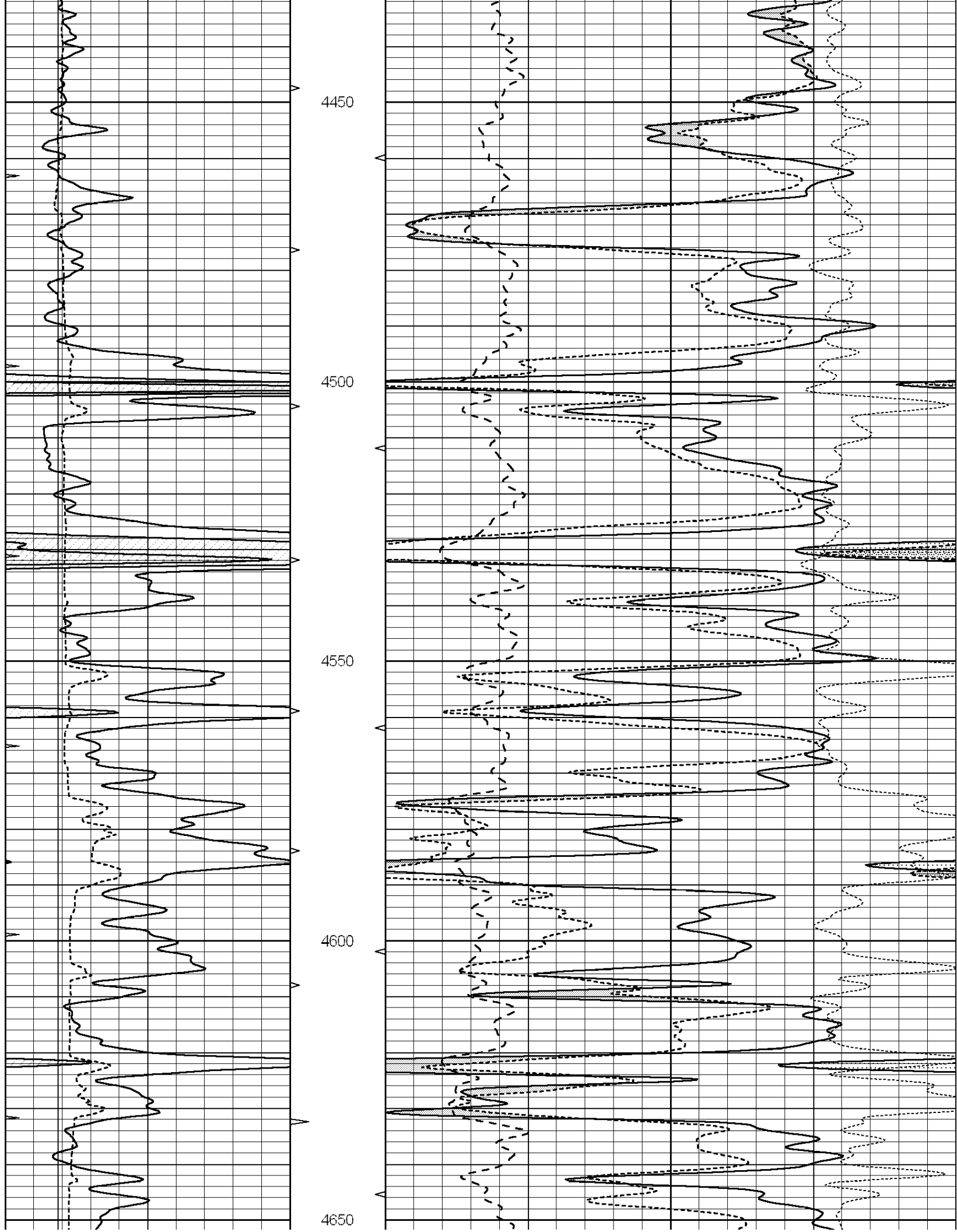
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6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10		

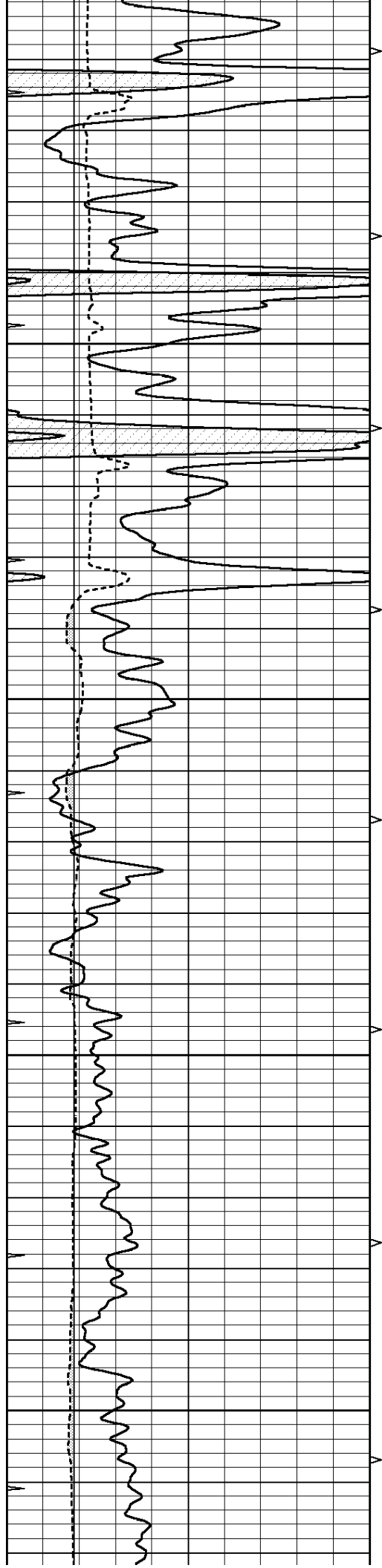










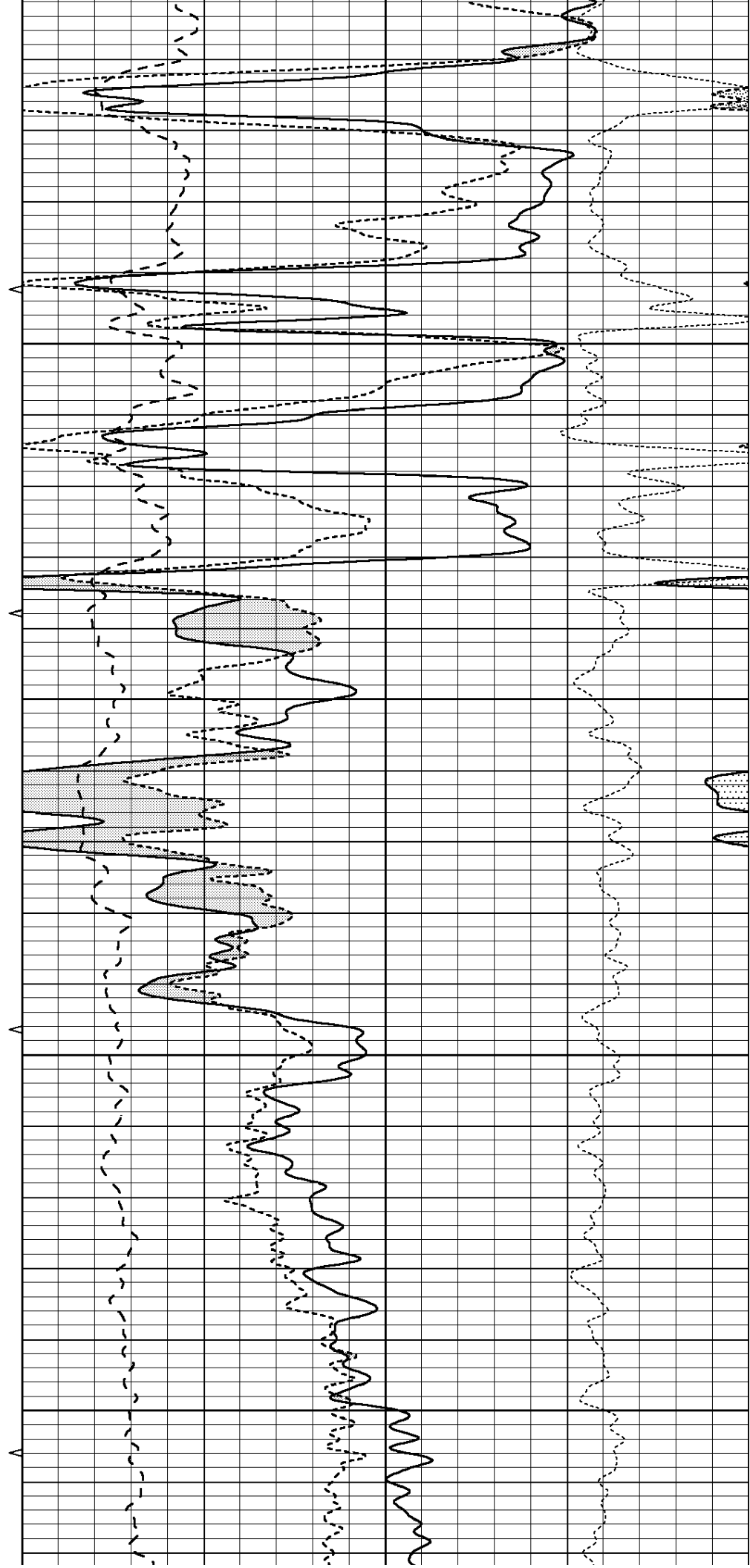


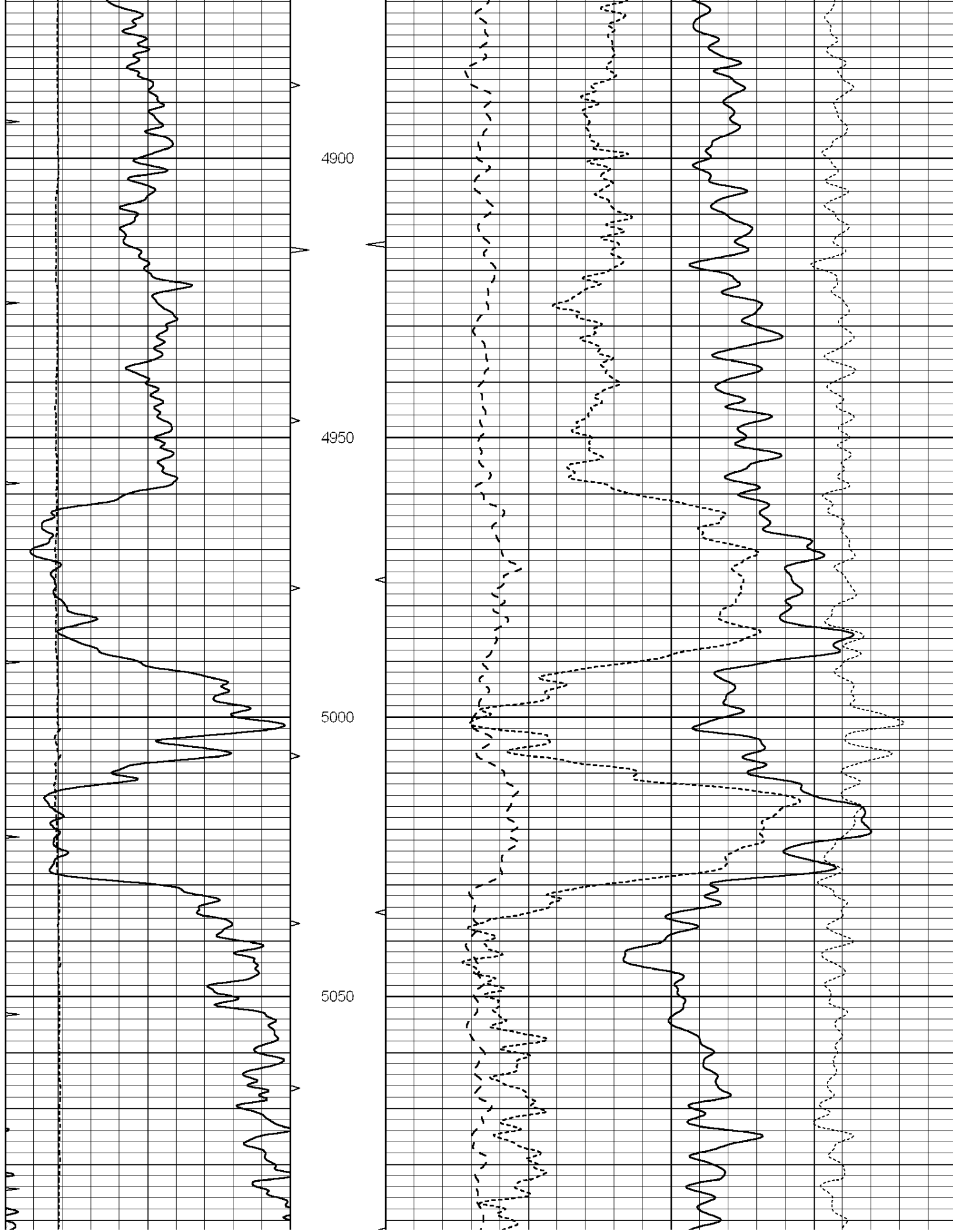
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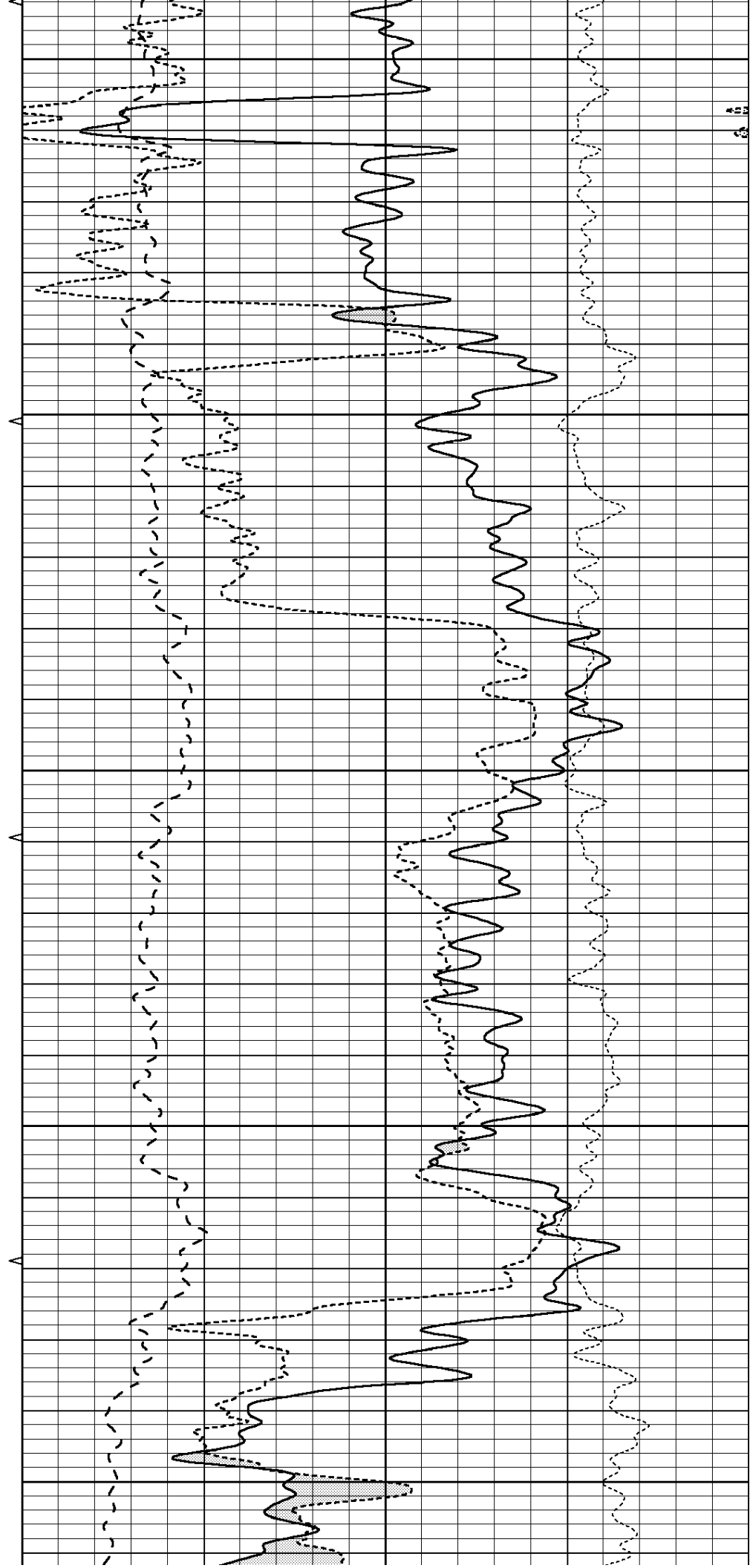
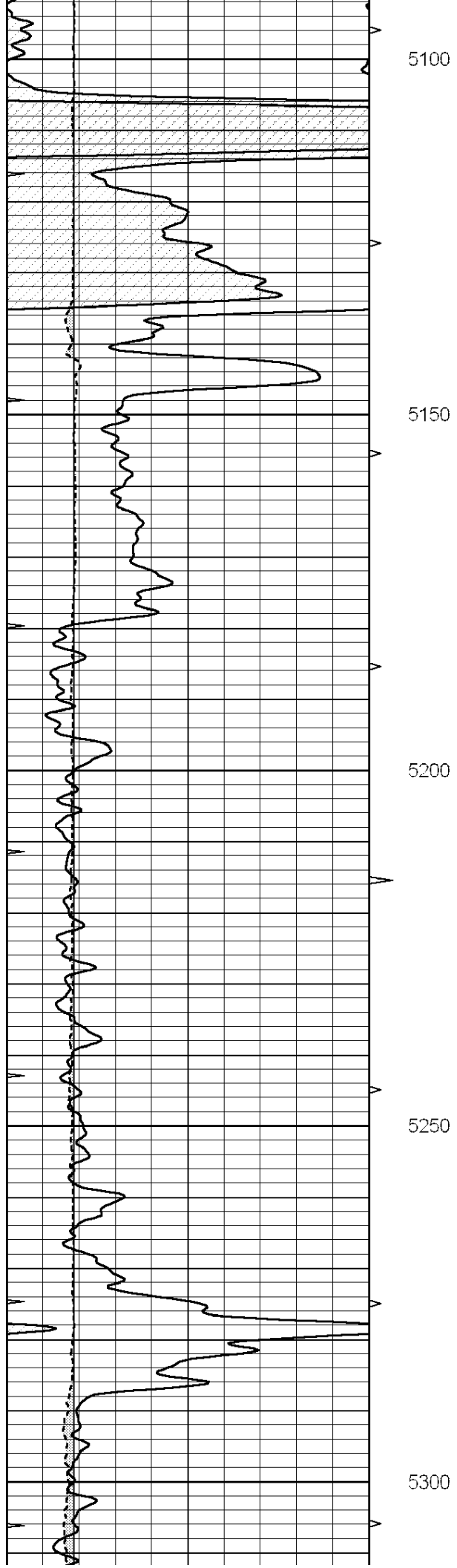
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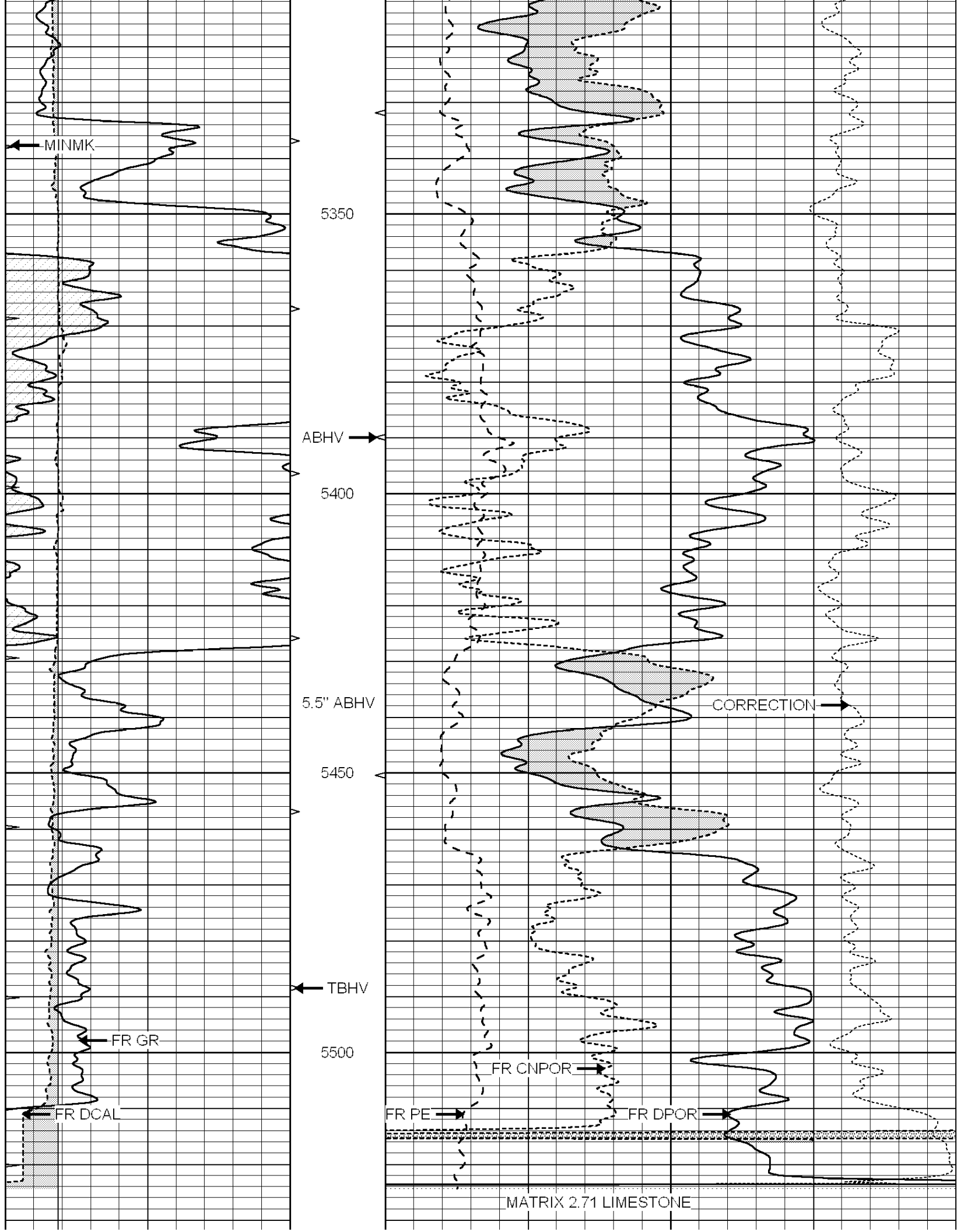
4800

4850









			--- TD ---					
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					

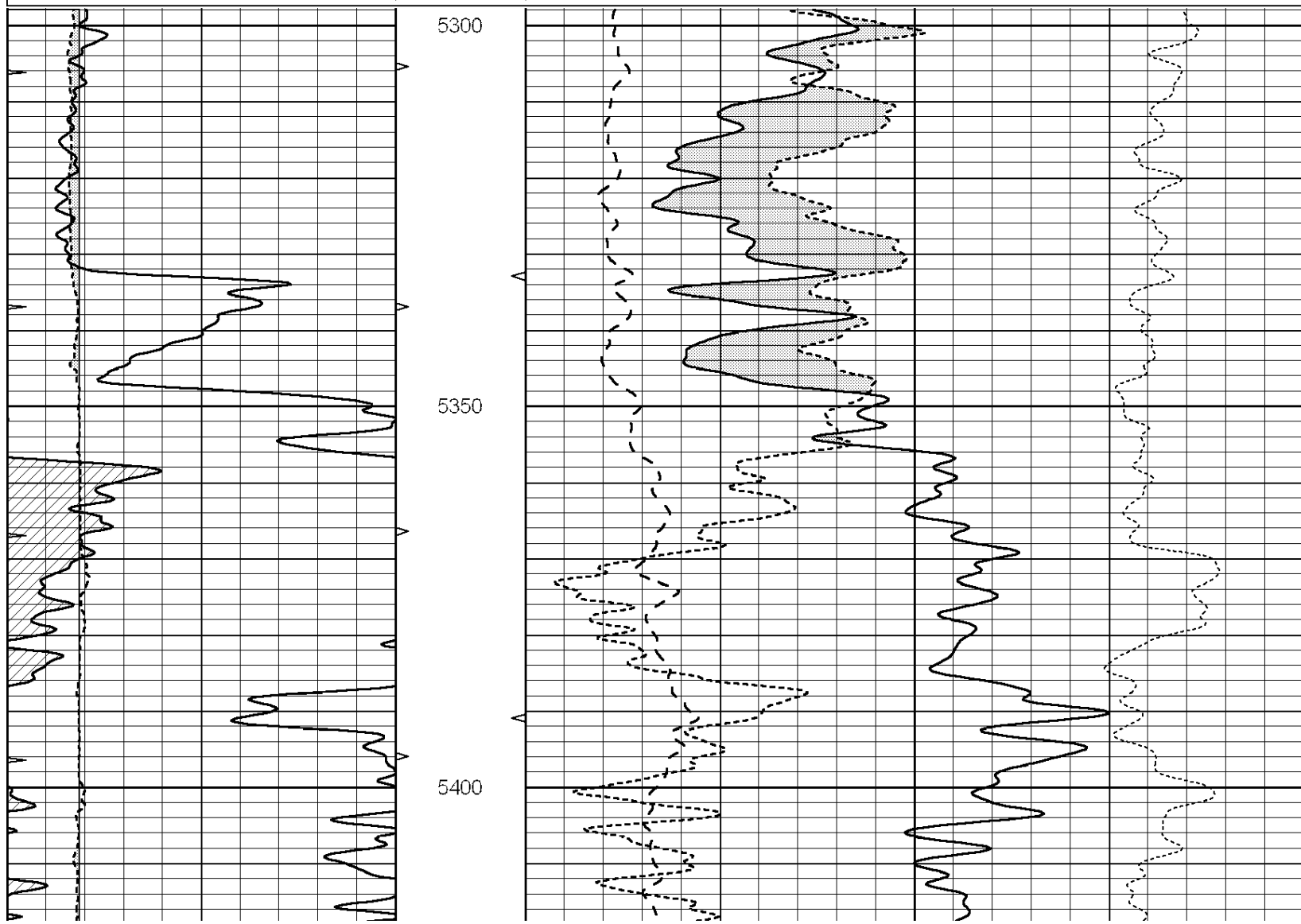


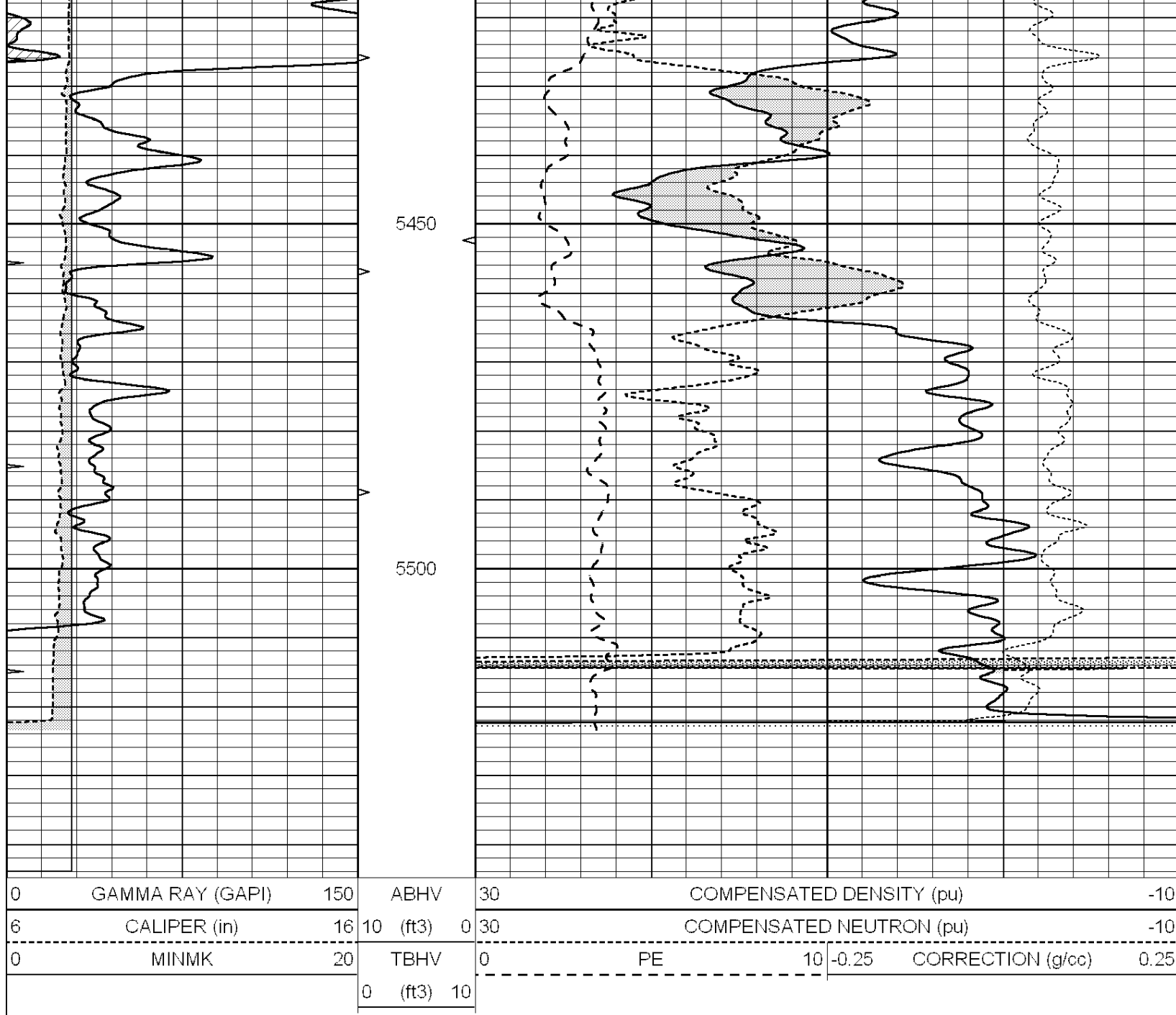
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REPEAT SECTION

Database File: 006924pdm.db
Dataset Pathname: pass2A
Presentation Format: ldt_neu
Dataset Creation: Sun May 22 23:34:36 2011
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					





Calibration Report

Database File: 006924pdn.db
 Dataset Pathname: pass3.2
 Dataset Creation: Sun May 22 23:51:45 2011

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Sun May 22 21:55:12 2011

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	610.000	-4.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	480.000	-16.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.006	0.655	V	0.000	400.000	mmho/m	615.668	-3.483
Medium	0.010	0.747	V	0.000	462.500	mmho/m	627.607	-6.064

Litho Density Calibration Report Serial: 002 Model: PRB Performed Tue Jul 03 11:12:28 2007					
Litho Density Calibration					
	Background	Magnesium	Aluminum	Sandstone	
Window 1	1059.5	9172.0	2859.6	10210.6	cps
Window 2	976.0	7793.2	2486.1	8515.6	cps
Window 3	689.8	2930.5	1159.0	3096.2	cps
Window 4	231.9	237.2	231.1	234.0	cps
Long Space	0.0	6817.1	1510.1	7539.6	cps
Short Space	1.6	1758.1	1188.6	1898.8	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 45.4	Rib Slope	: 1.015	Density/Spine Ratio	: 0.569
Spine Angle	: 75.4	Spine Slope	: 3.850	Spine Intercept	: -19.9
Caliper					
	Readings	Reference			
Low Ref	3.8	8.8			
High Ref	5.9	14.0			
	Gain: 2.4		Offset: -0.4		
Compensated Neutron Calibration Report					
Serial Number:			NUE_2I		
Tool Model:			G		
CALIBRATION					
	Detector	Readings	Target	Normalization	
	Short Space	1.00 cps	1.00 cps	1.0000	
	Long Space	1.00 cps	1.00 cps	1.0000	
Gamma Ray Calibration Report					
Serial Number:		GR5			
Tool Model:		OPEN			
Performed:		Sun May 22 21:06:30 2011			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.6500	GAPI/cps		