



SUPERIOR
Hays,
Kansas

COMPENSATED
NEUTRON/DENSITY
PE LOG

Company LOTUS OPERATING COMPANY, LLC.	
Well #5 WETZ B	
Field	
County BARBER	State KANSAS
Location: 2200' FNL & 1680' FEL	
API # : 15-007-23589-0000	
Other Services	
DIL	
MEL/SON	
Elevation	
K.B. 1371	
D.F. 1369	
G.L. 1363	
Permanent Datum GROUND LEVEL Elevation 1363	
Log Measured From KELLY BUSHING 9' A.G.L.	
Drilling Measured From KELLY BUSHING	
Date 9-19-10	
Run Number ONE	
Depth Driller 5243	
Depth Logger 5262	
Bottom Logged Interval 5238	
Top Log Interval 3300	
Casing Driller 10 3/4' @ 266	
Casing Logger 265	
Bit Size 7 7/8	
Type Fluid in Hole CHEMICAL MUD	CHLORIDES 6300 PPM
Density / Viscosity 9.3/54	
pH / Fluid Loss 9.0/11.2	
Source of Sample FLOWLINE	
Rim @ Meas. Temp .80 @ 92F	
Rmf @ Meas. Temp .60 @ 92F	
Rmc @ Meas. Temp .96 @ 92F	
Source of Rmf / Rmc MEASURED	
Rim @ BHT .58 @ 127F	
Time Circulation Stopped 2 HOURS	
Time Logger on Bottom	
Maximum Recorded Temperature 127F	
Equipment Number 680	
Location HAYS, KS.	
Recorded By JEFF GRONEMEG	
Witnessed By TIM HELLMAN	

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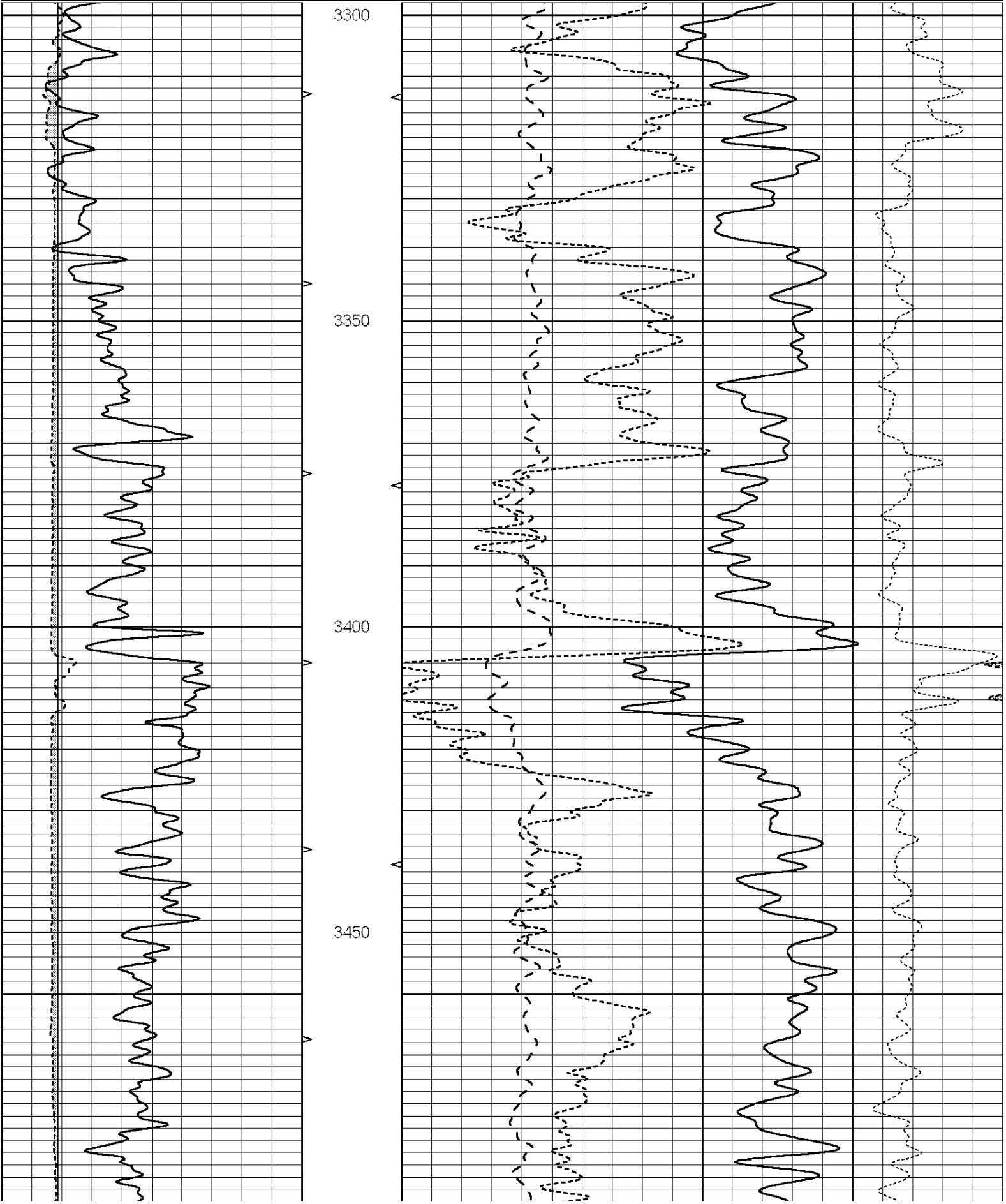
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

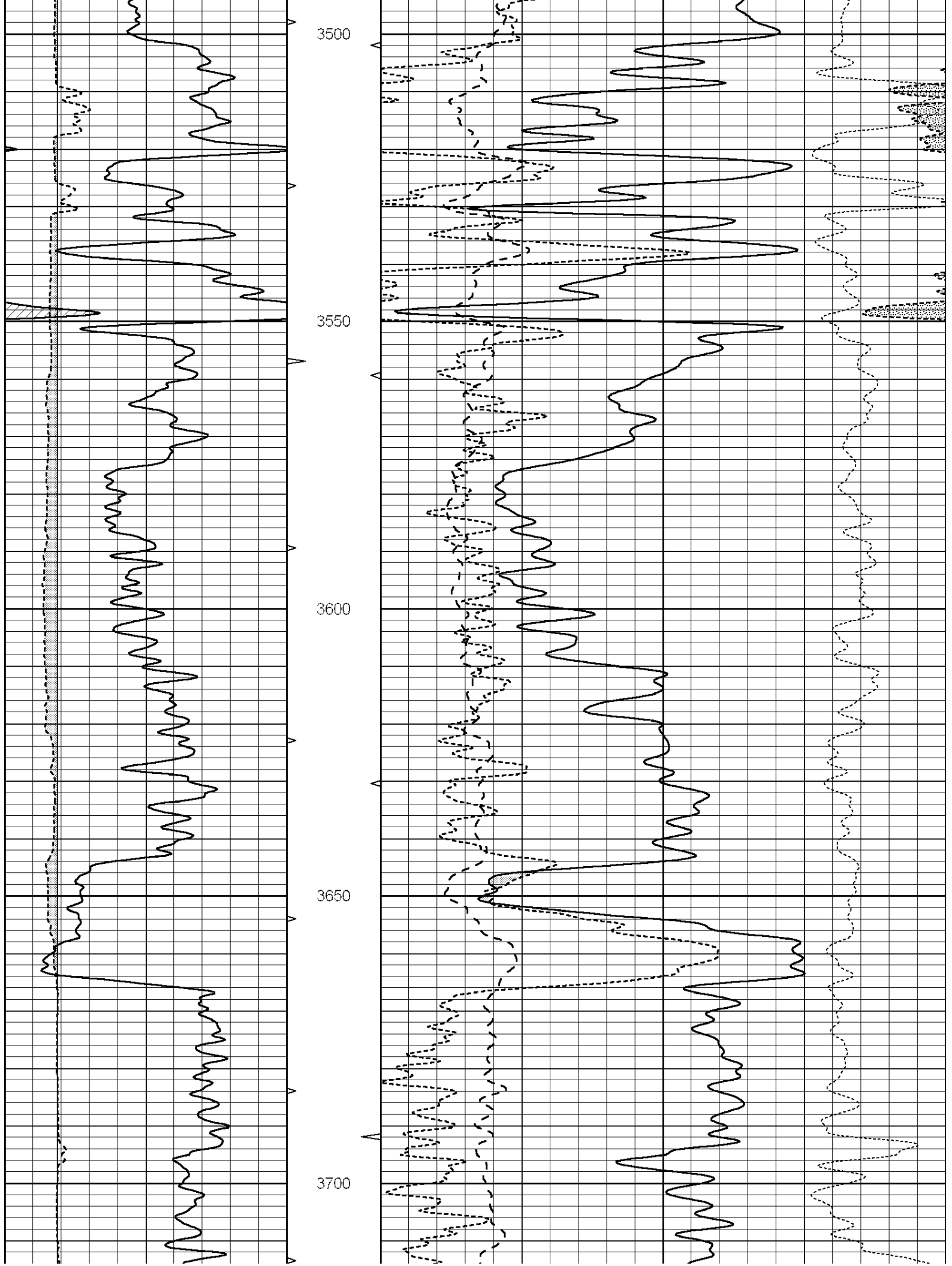
Comments

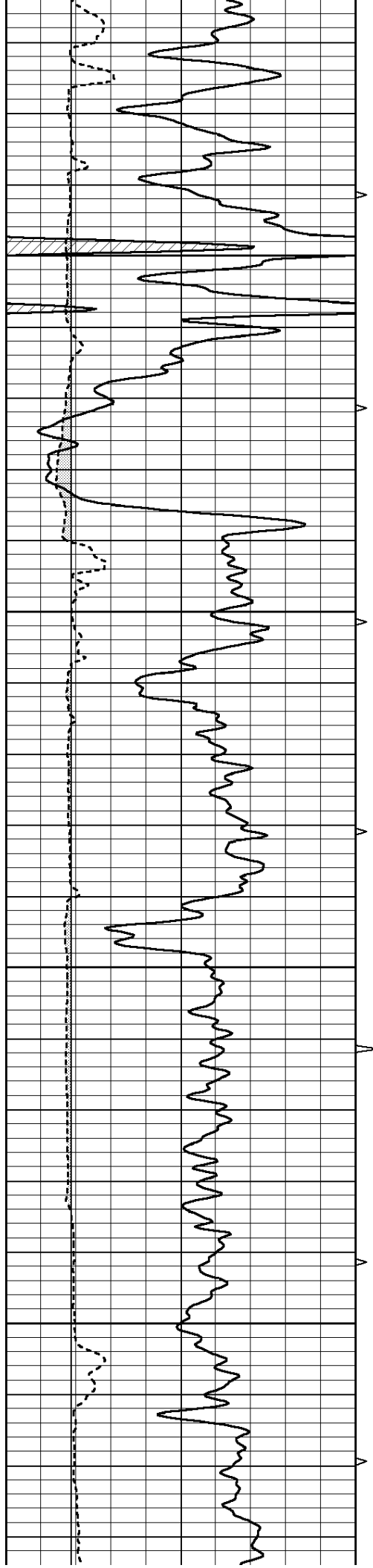
THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
MEDICINE LODGE, KS - 15 MILES SOUTH TO RATTLESNAKE TRAIL
1/4 MILE WEST - NORTH INTO

Database File: 005865pe.db
Dataset Pathname: pass3.4
Presentation Format: _ldt_neu
Dataset Creation: Mon Sep 20 00:28:01 2010 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

Charted by:		Depth in Feet scaled 1:2.15					
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				





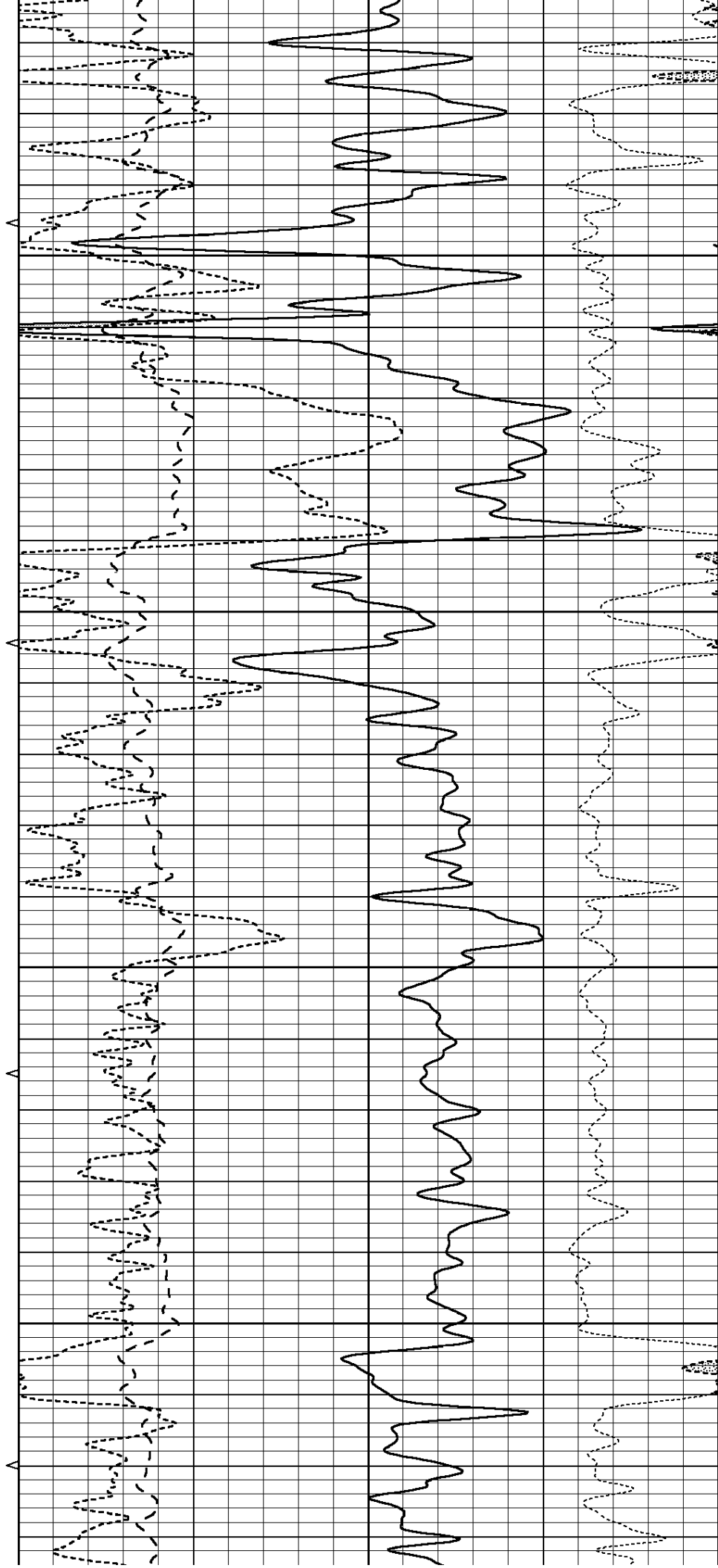


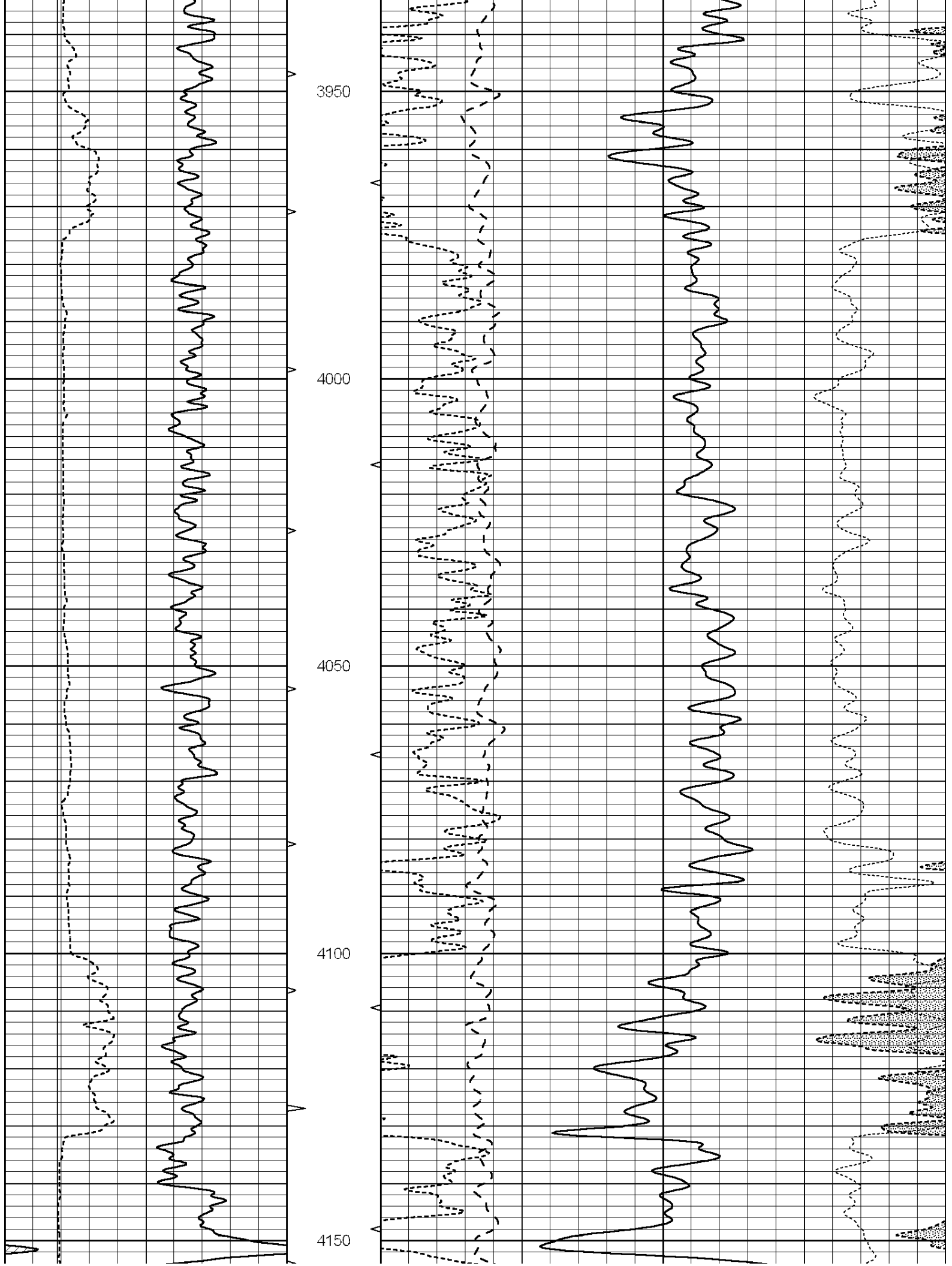
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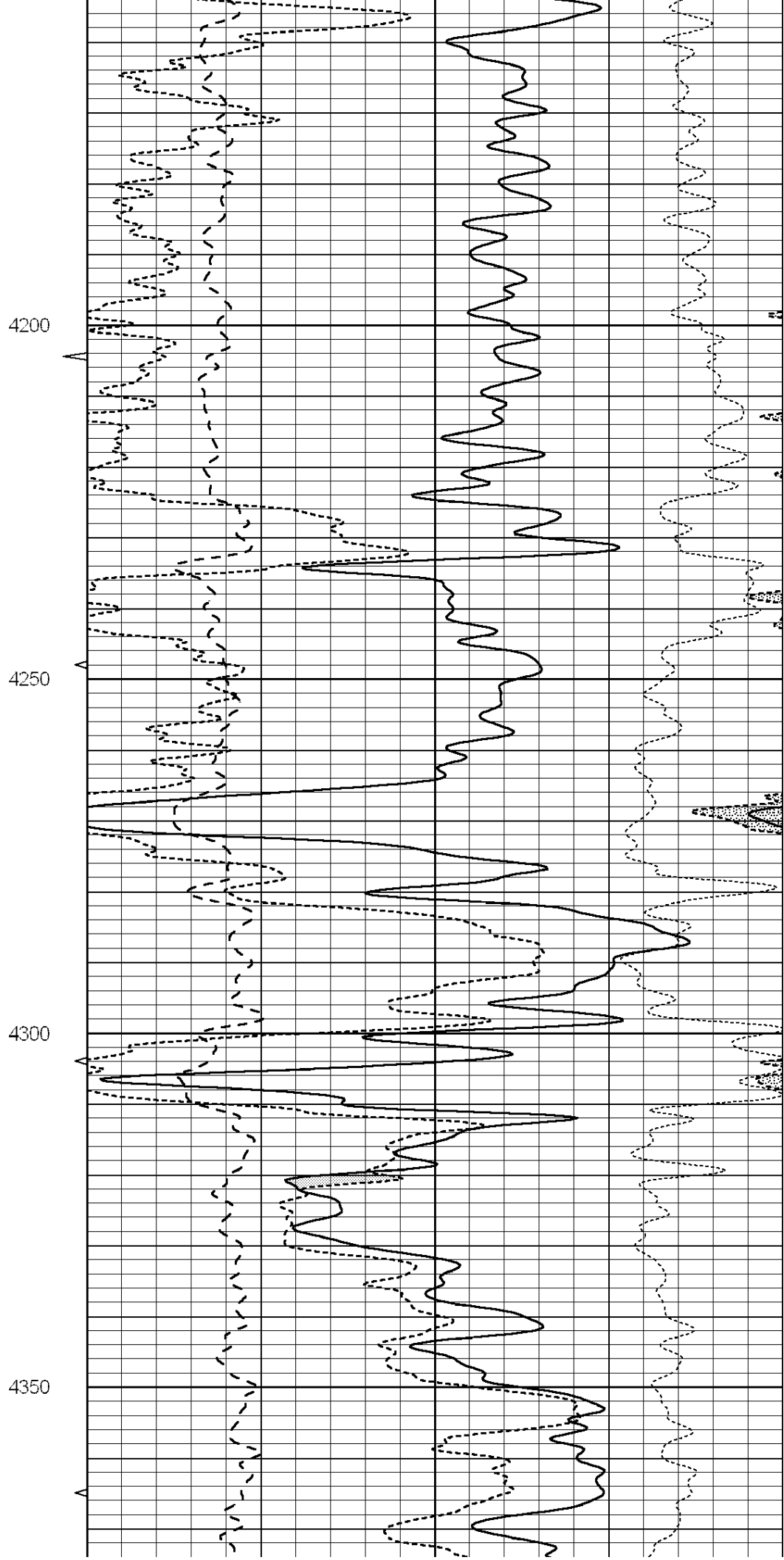
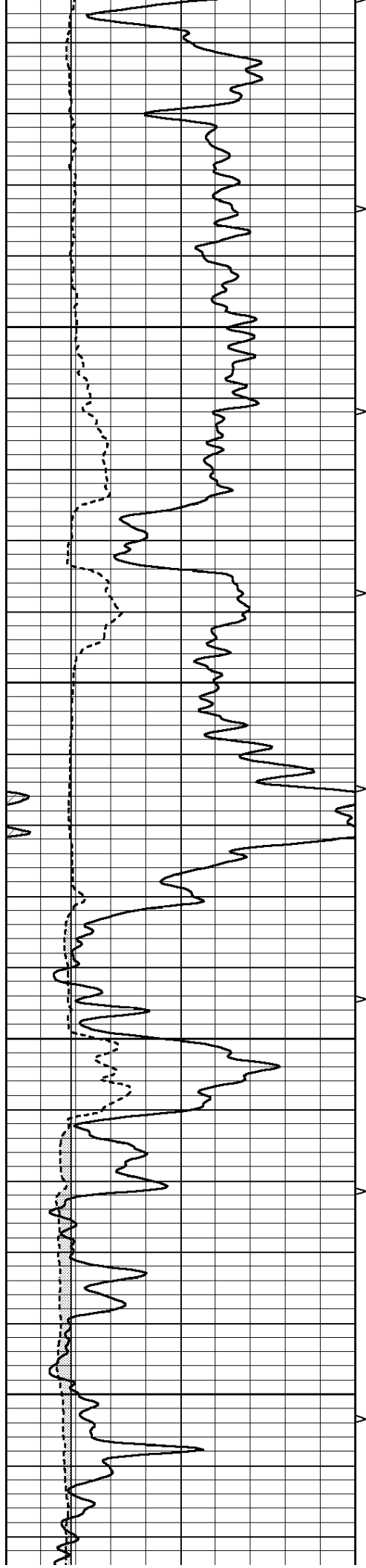
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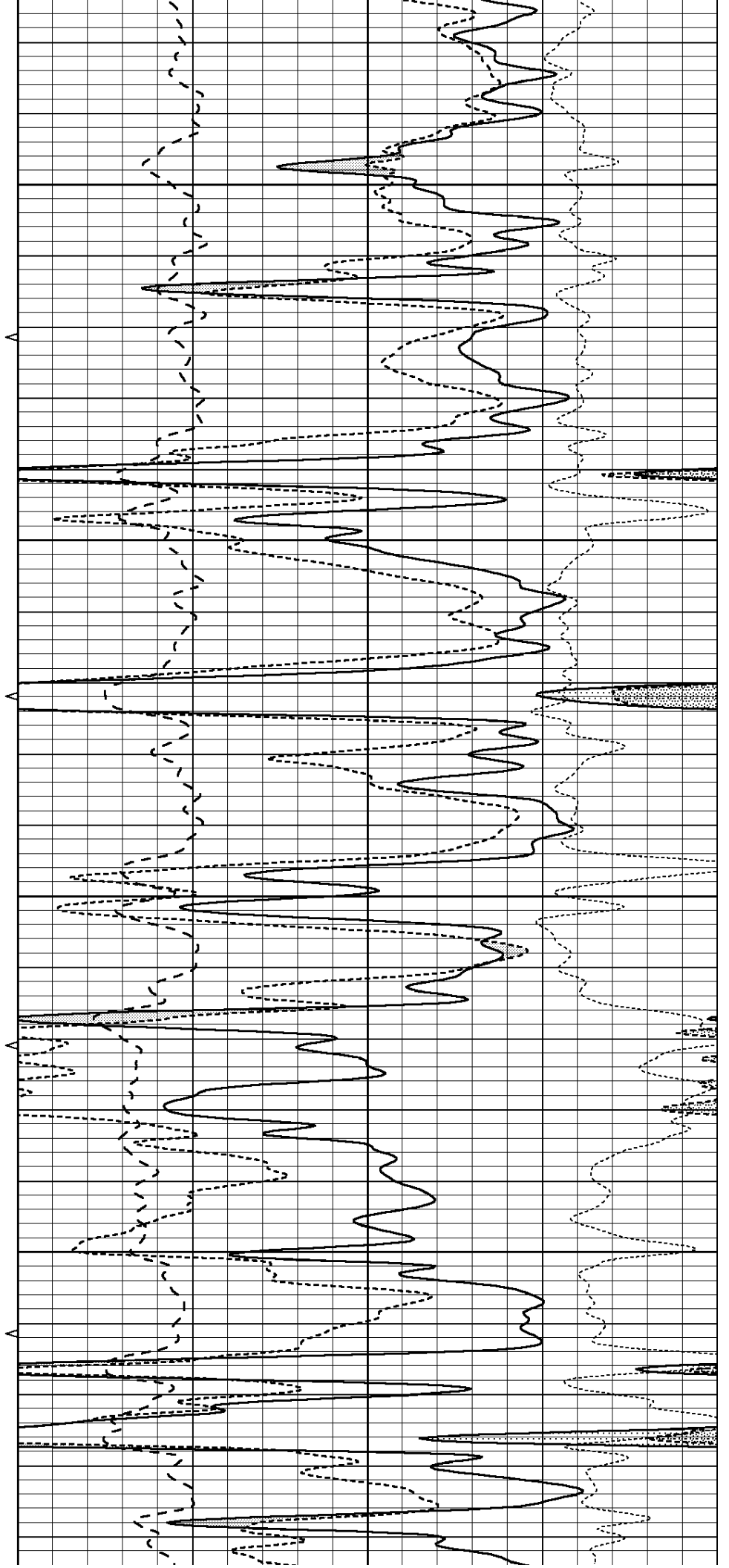
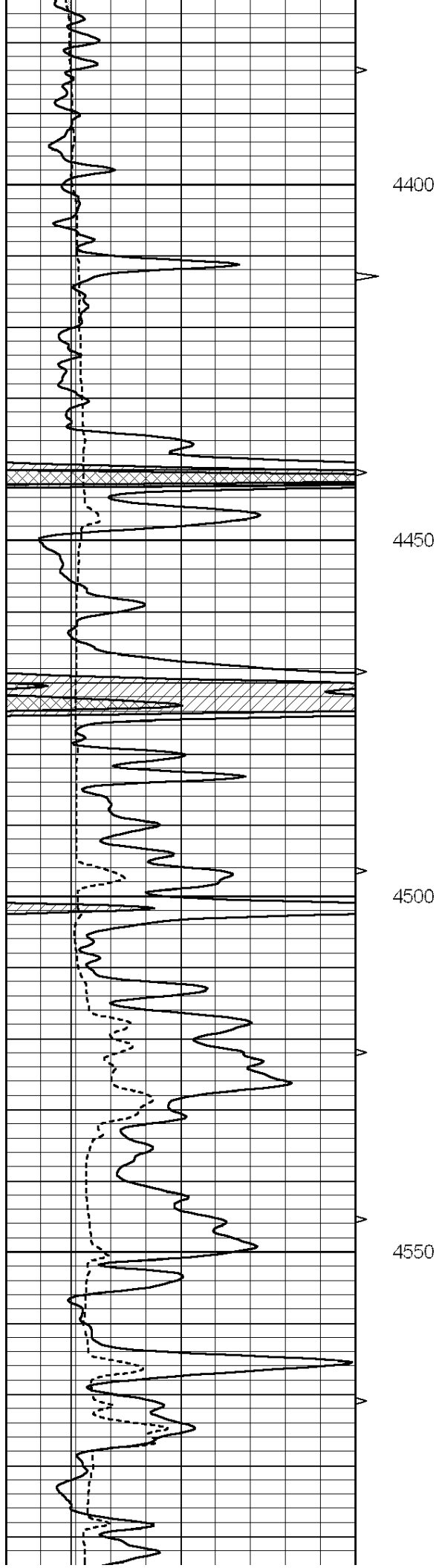
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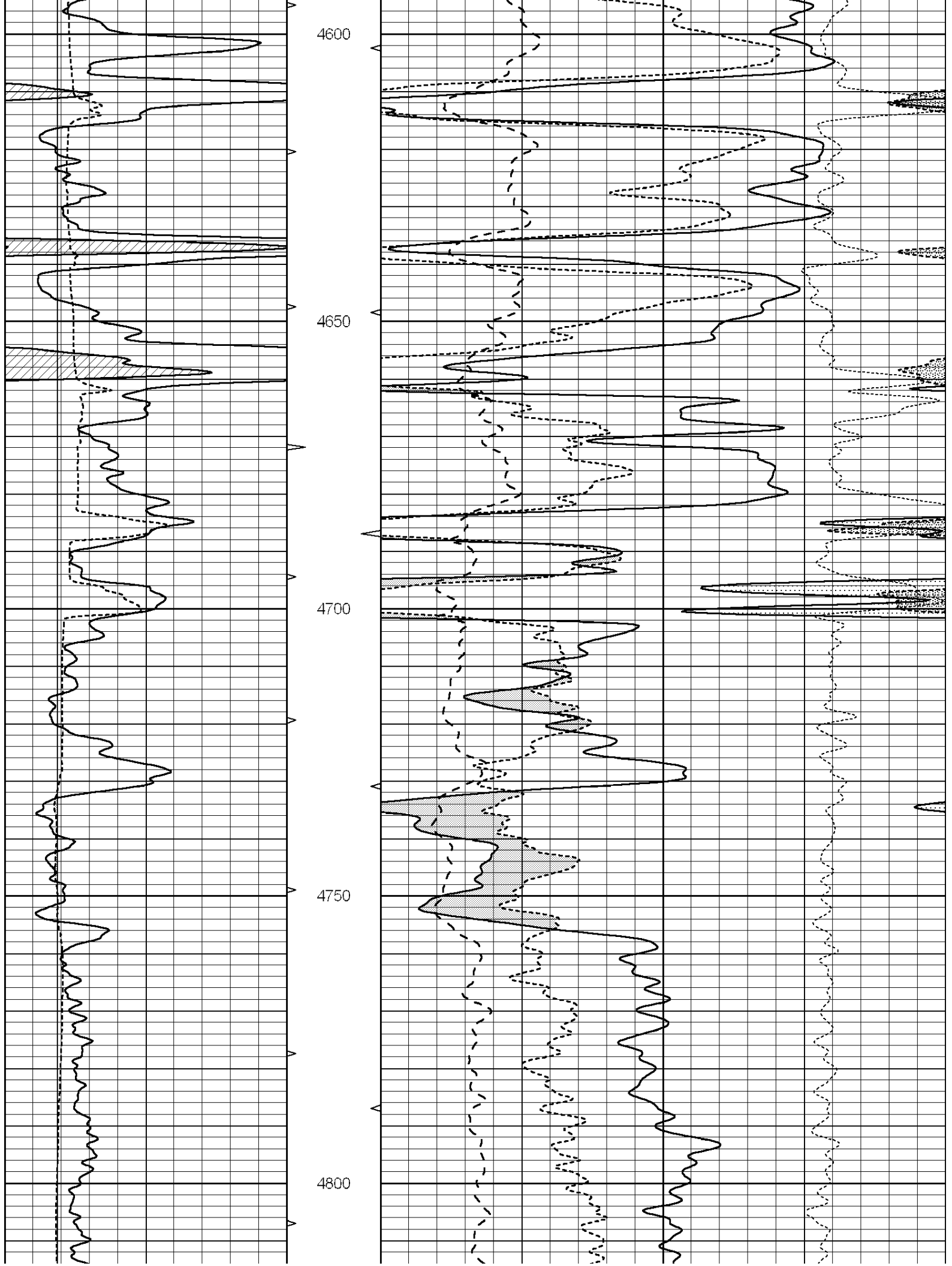
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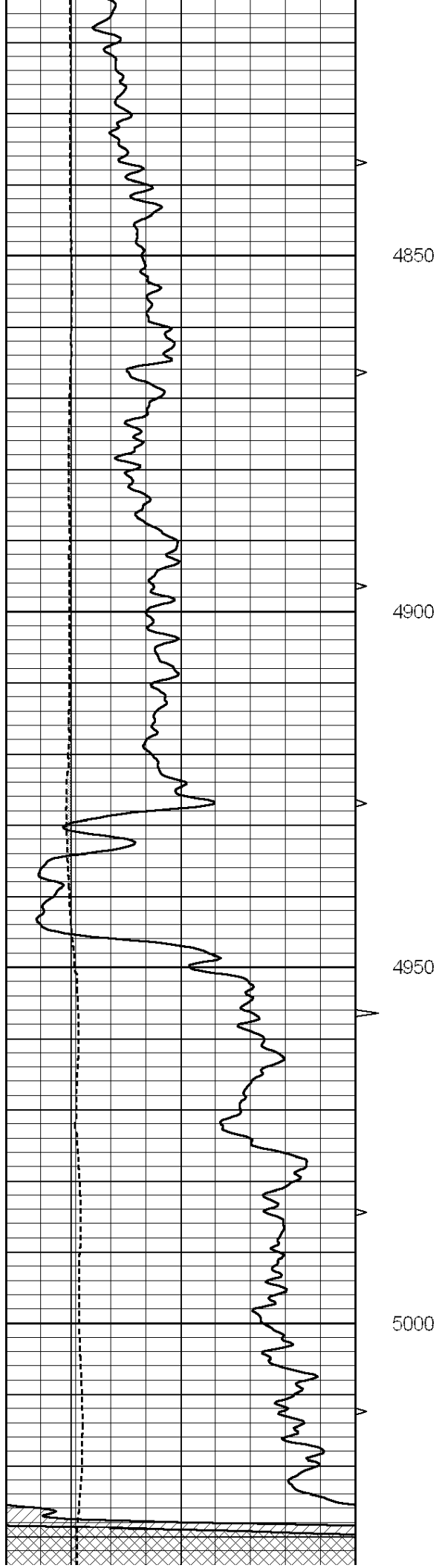
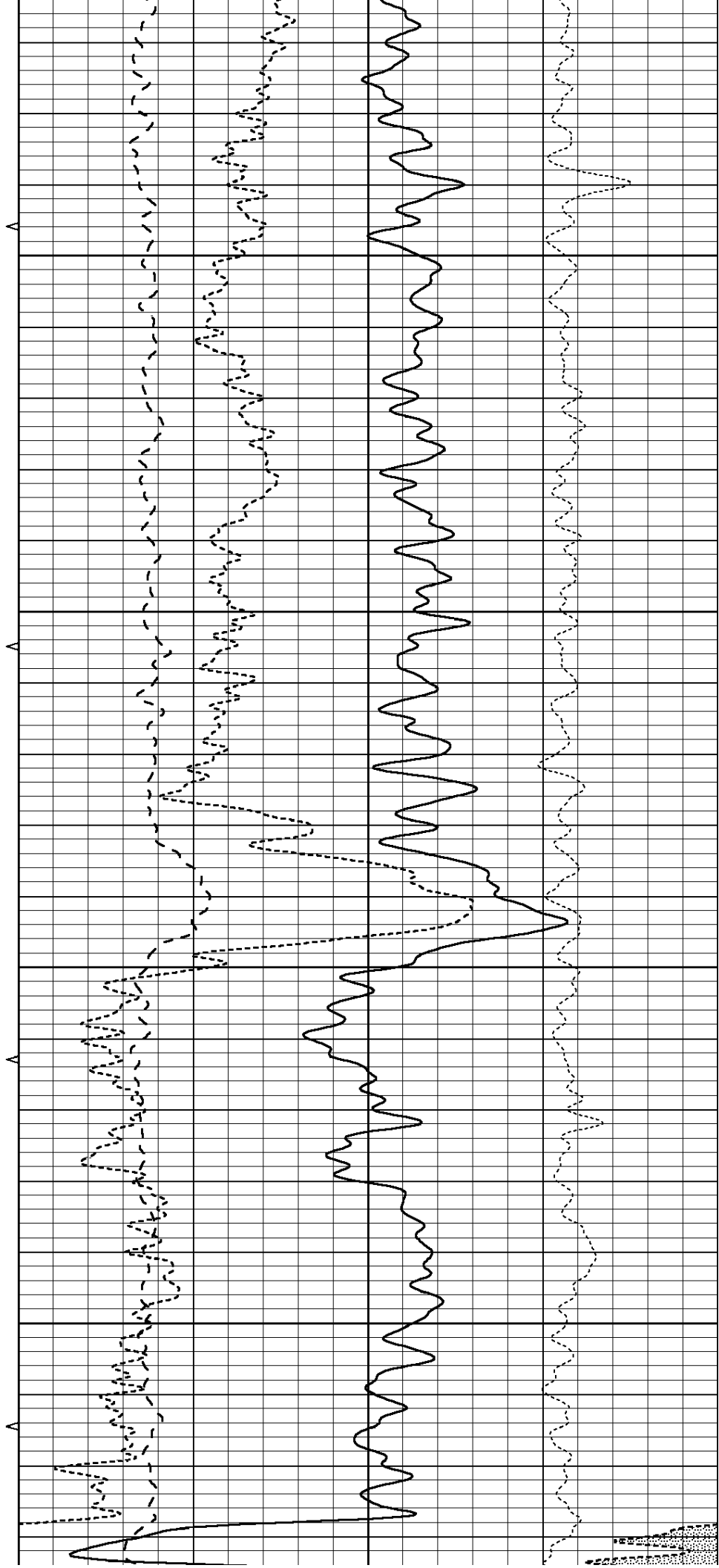
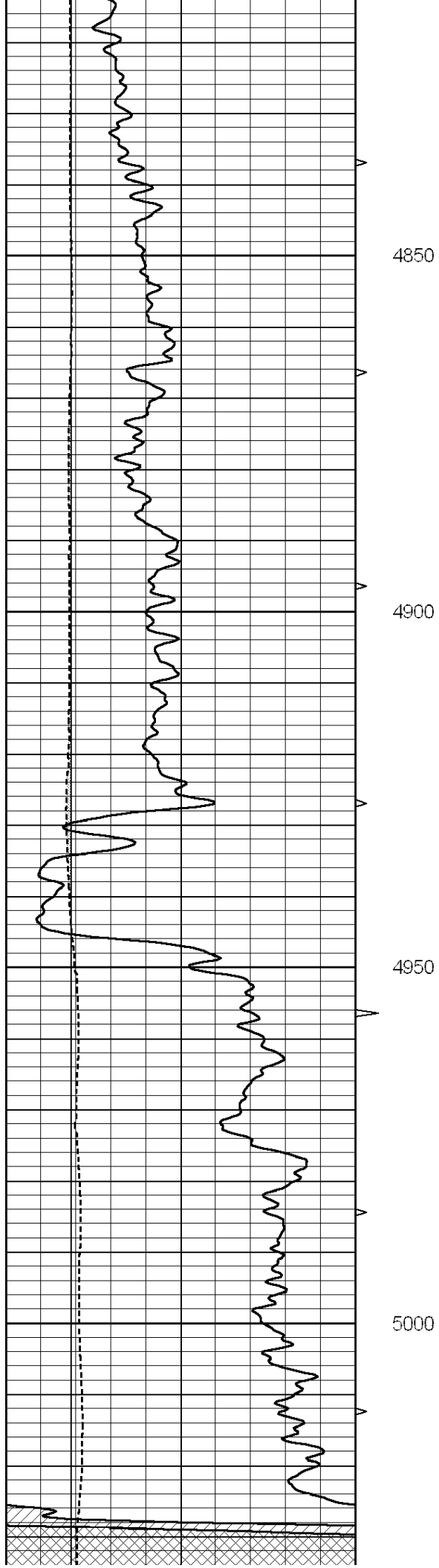


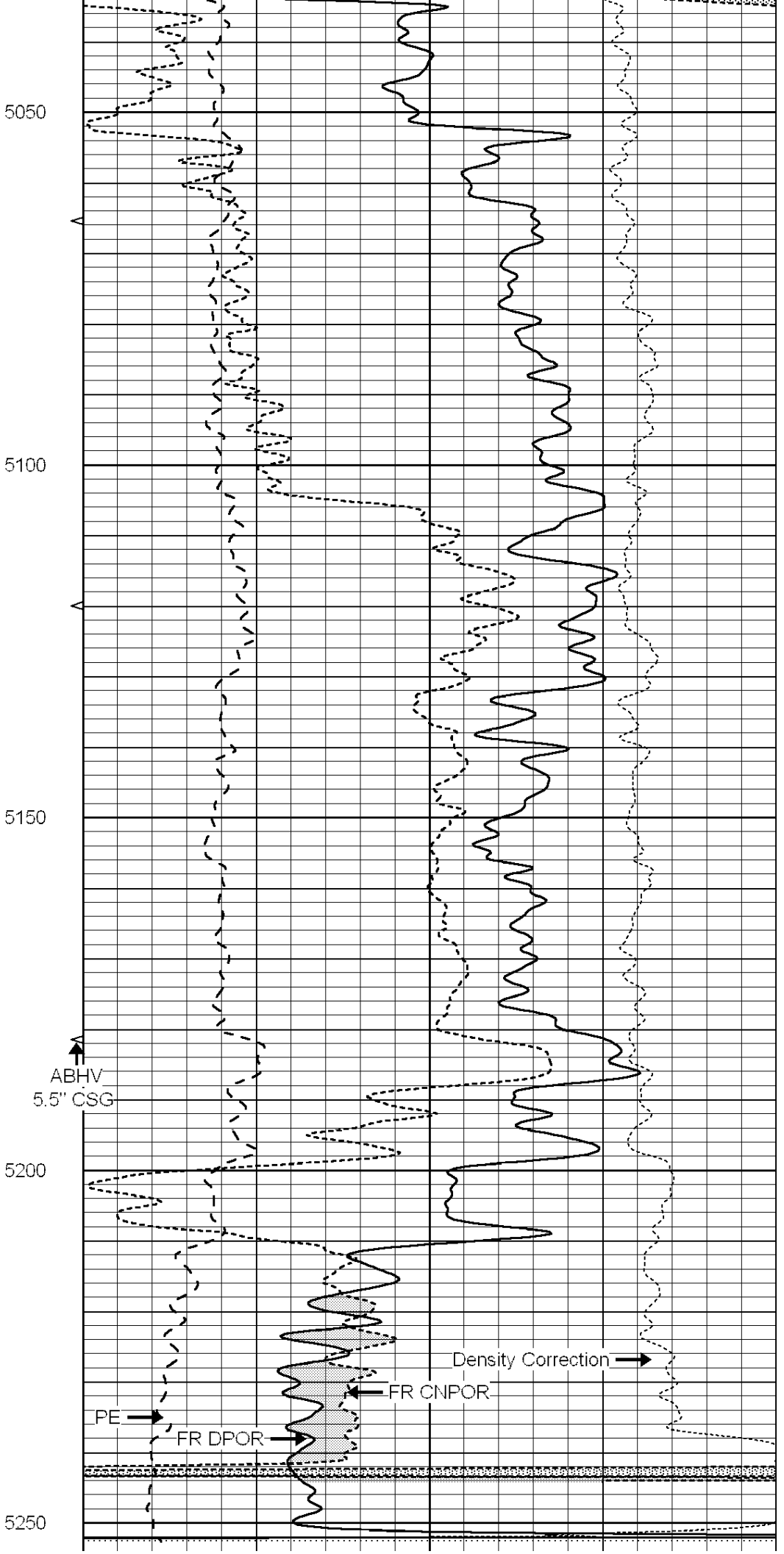
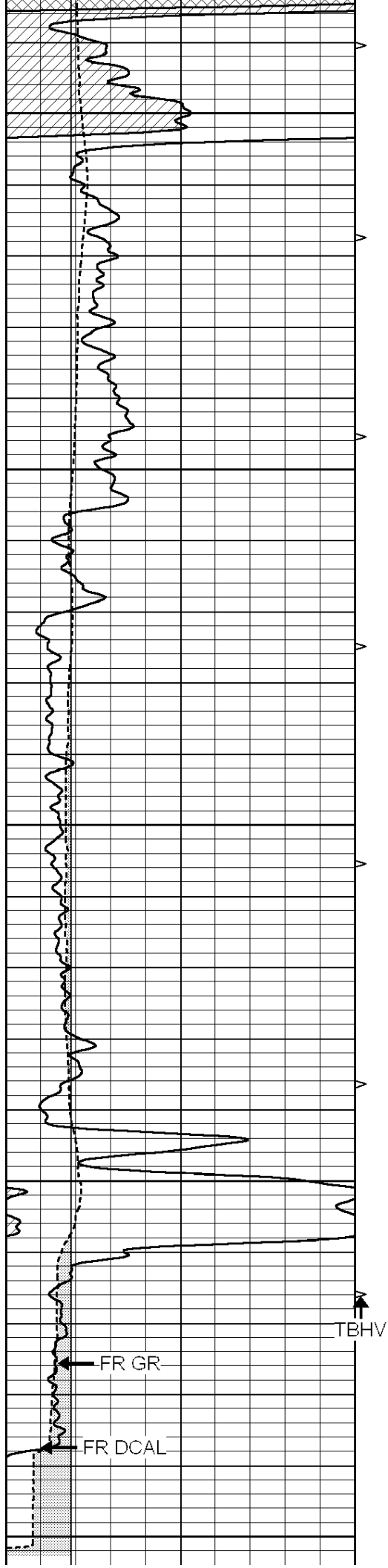












			LIMESTONE MATRIX 2.71		
			LTD 5262		
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu) -10
			TBHV	0	PE 10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10		

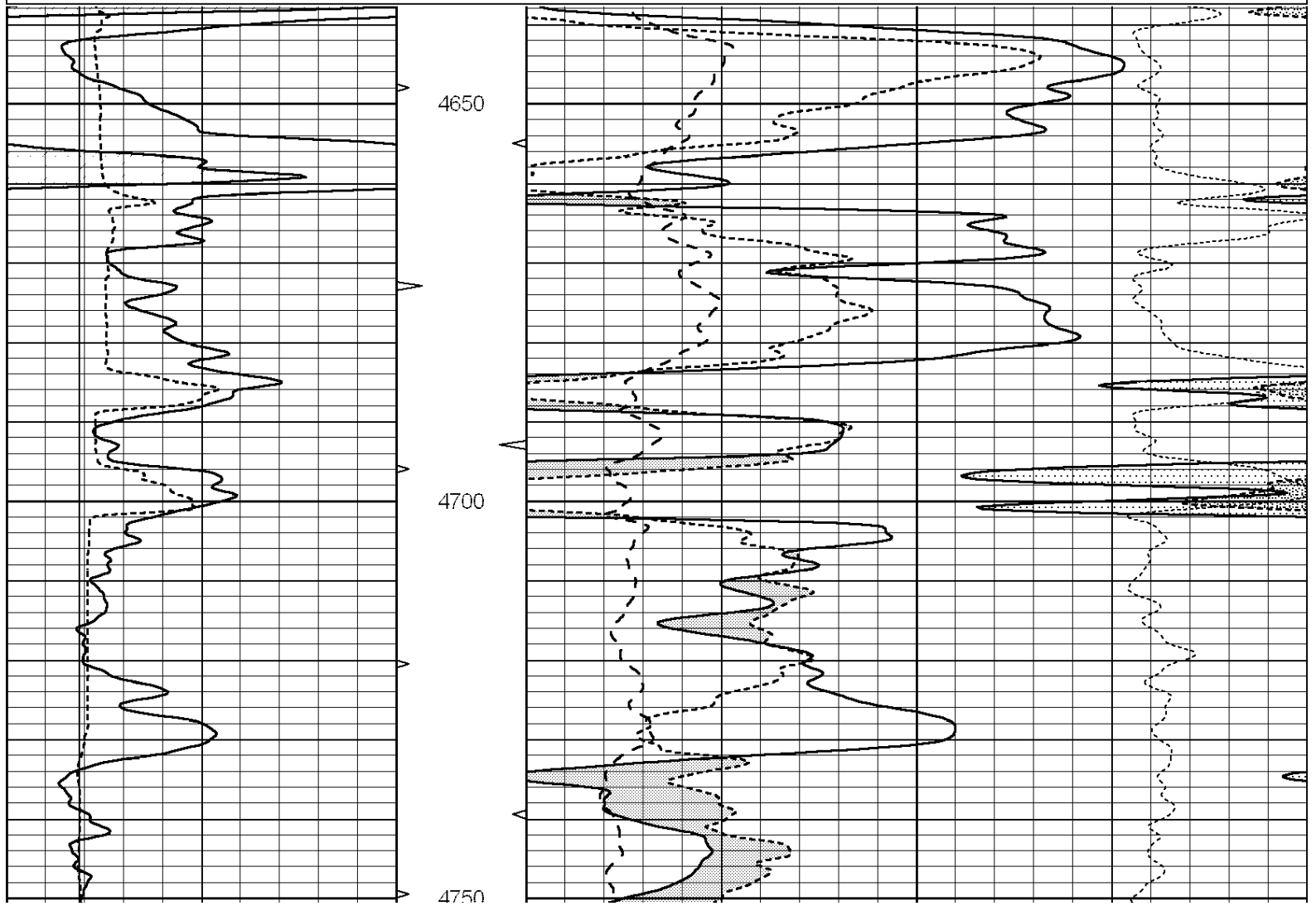


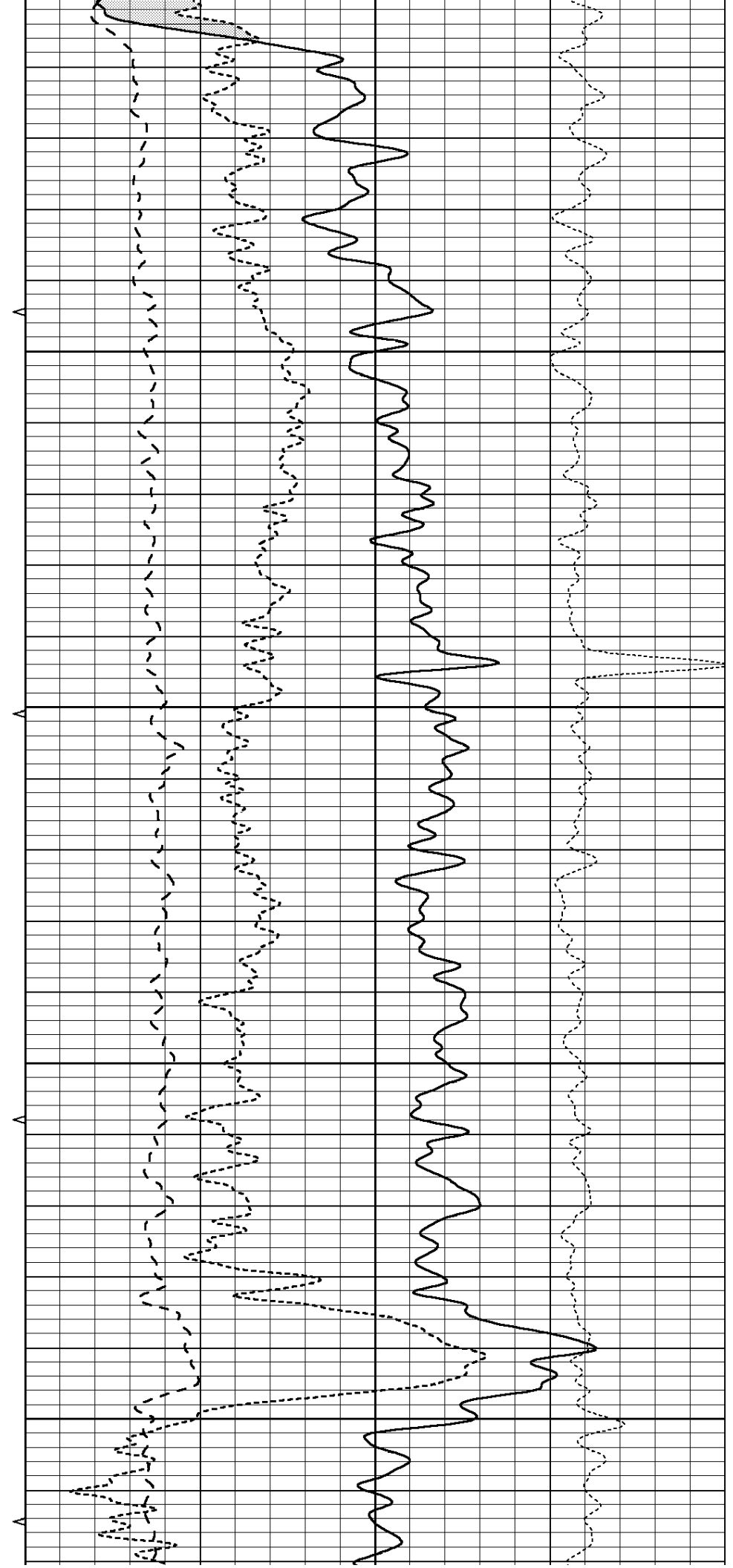
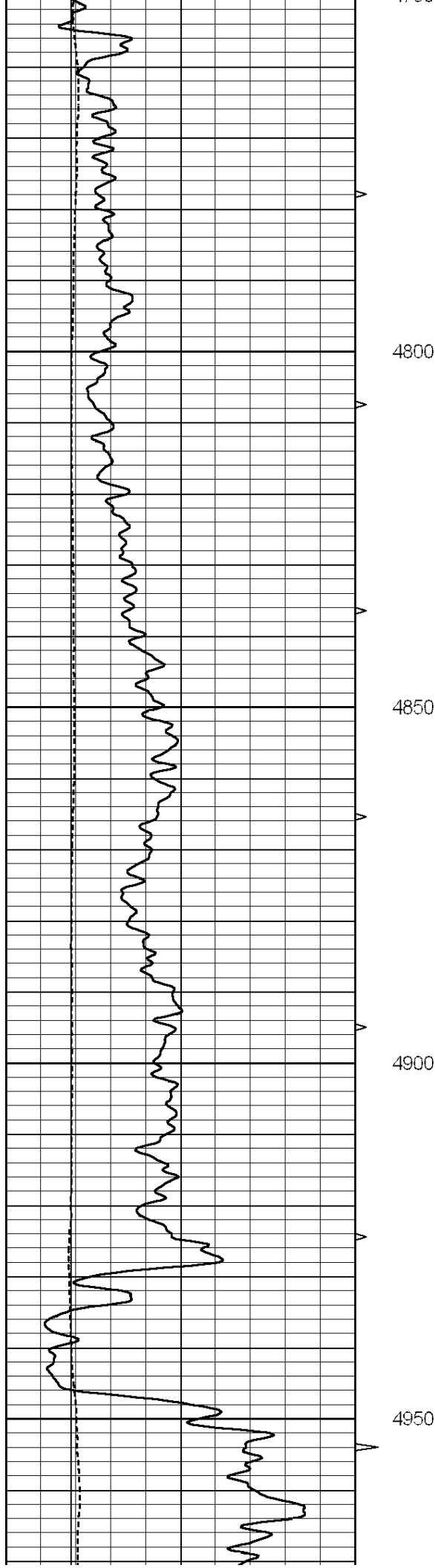
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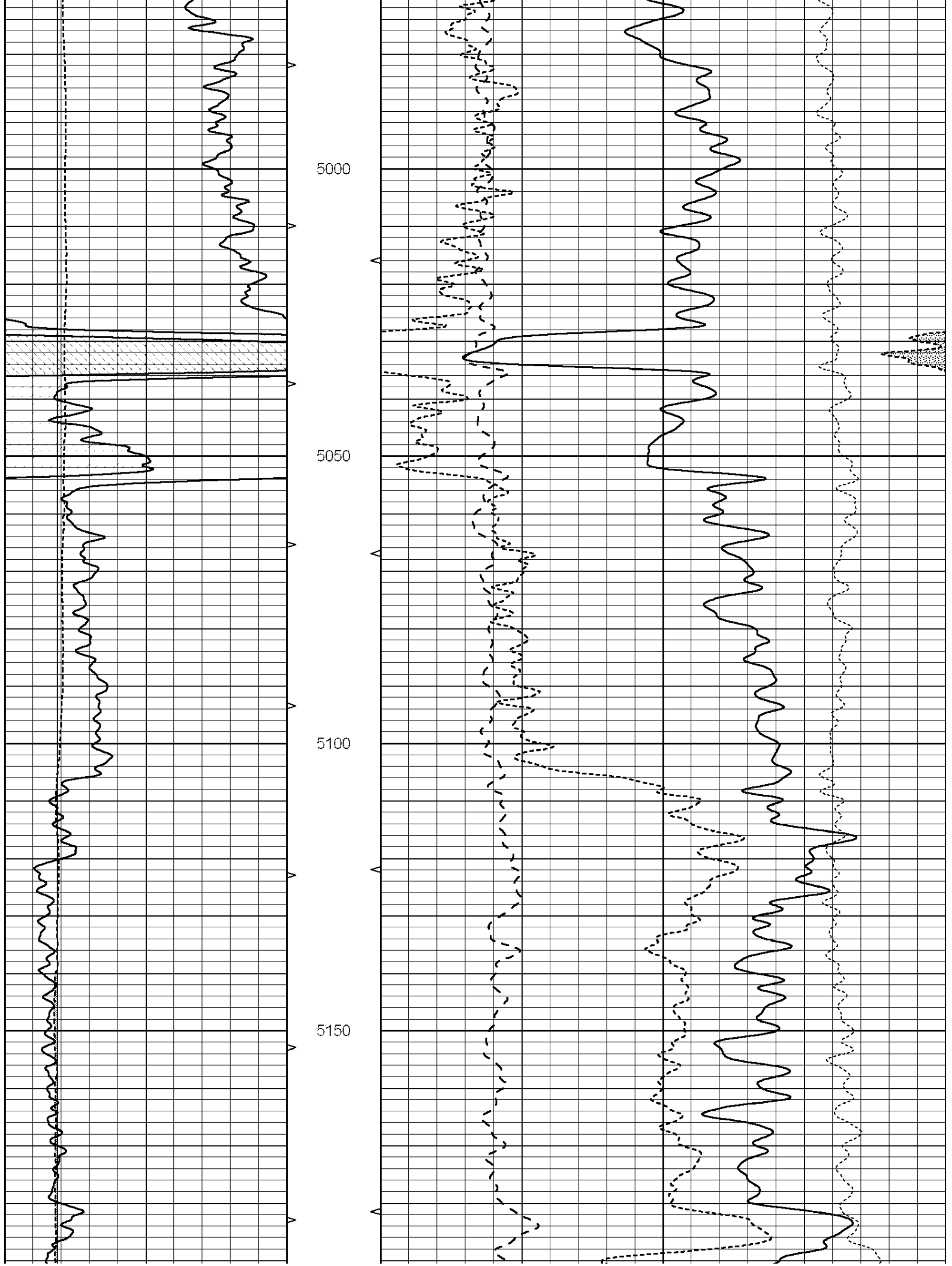
REPEAT SECTION

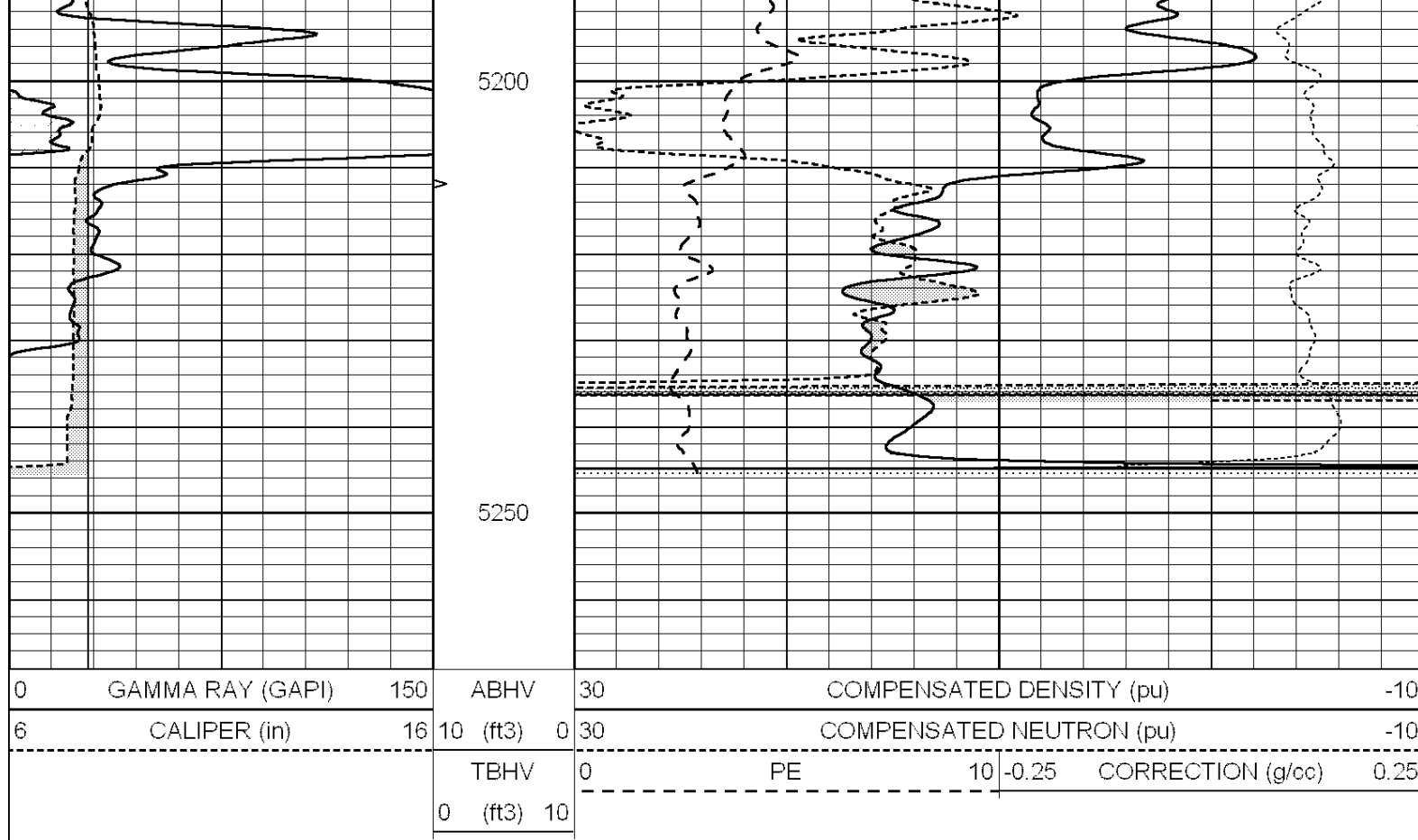
Database File: 005865pe.db
Dataset Pathname: pass2.3
Presentation Format: _ldt_neu
Dataset Creation: Mon Sep 20 00:38:44 2010 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

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









Calibration Report

Database File: 005865pe.db
Dataset Pathname: pass3.6
Dataset Creation: Mon Sep 20 01:26:18 2010

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG
Surface Cal Performed: Wed Jul 30 06:14:24 2008
Downhole Cal Performed: Mon Jul 28 12:02:56 2008
After Survey Verification Performed: Mon Jul 28 12:02:56 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

After Survey Verification

After Survey verification			Readings		Targets		Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		
		0.000	Ohm-m		0.000	Ohm-m		
		1.000	mmho-m		1.000	mmho-m		

Litho Density Calibration Report Serial: 002 Model: PRB Performed Mon Oct 29 15:40:49 2007								
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Litho Density Calibration								
	Background		Magnesium		Aluminum		Sandstone	
Window 1	1056.3		9118.0		2809.7		10378.4	
Window 2	969.9		7671.9		2431.6		8565.8	
Window 3	683.8		2939.8		1161.0		3161.8	
Window 4	231.4		231.6		226.7		230.8	
Long Space	0.0		6702.0		1461.7		7595.9	
Short Space	1.2		1433.6		959.4		1568.6	
Rho			1.7100		2.5900		1.3800	
Pe					2.5700		1.5500	
Rib Angle	: 45.2		Rib Slope	: 1.008	Density/Spine Ratio		: 0.559	
Spine Angle	: 75.2		Spine Slope	: 3.791	Spine Intercept		: -18.7	

Caliper		
Low Ref	Readings 2.3	Reference 8.0
High Ref	4.3	14.0
	Gain: 2.1	Offset: 1.9

Compensated Neutron Calibration Report		
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Serial Number:	5I
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		
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Serial Number:	GR5	
Tool Model:	OPEN	
Performed:	Tue May 23 06:48:05 2006	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5300	GAPI/cps