



SUPERIOR
Hays,
Kansas

COMPENSATED
DENSITY / NEUTRON
LOG

Company RITCHIE EXPLORATION, INC.
Well REBEIN #1
Field WILDCAT
County HODGEMAN
State KANSAS

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Well REBEIN #1
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County HODGEMAN State KANSAS

Location: API # : 15-083-21846

Other Services
DIL

SEC 32 TWP 24S RGE 24W

Permanent Datum GROUND LEVEL Elevation 2483
Log Measured From KELLY BUSHING 12' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2495
D.F.
G.L. 2483

Date	9-30-12		
Run Number	ONE		
Depth Driller	5070		
Depth Logger	5070		
Bottom Logged Interval	5046		
Top Log Interval	3300		
Casing Driller	356		
Casing Logger	356		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.1 / 52		
pH / Fluid Loss	10.5 / 9.2		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.70 @ 75F		
Rmf @ Meas. Temp	0.53 @ 75F		
Rmc @ Meas. Temp	0.84 @ 75F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.420 @ 125F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	8:30 P.M.		
Maximum Recorded Temperature	125F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	MACK ARMSTRONG		

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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
THANK YOU FOR YOUR BUSINESS

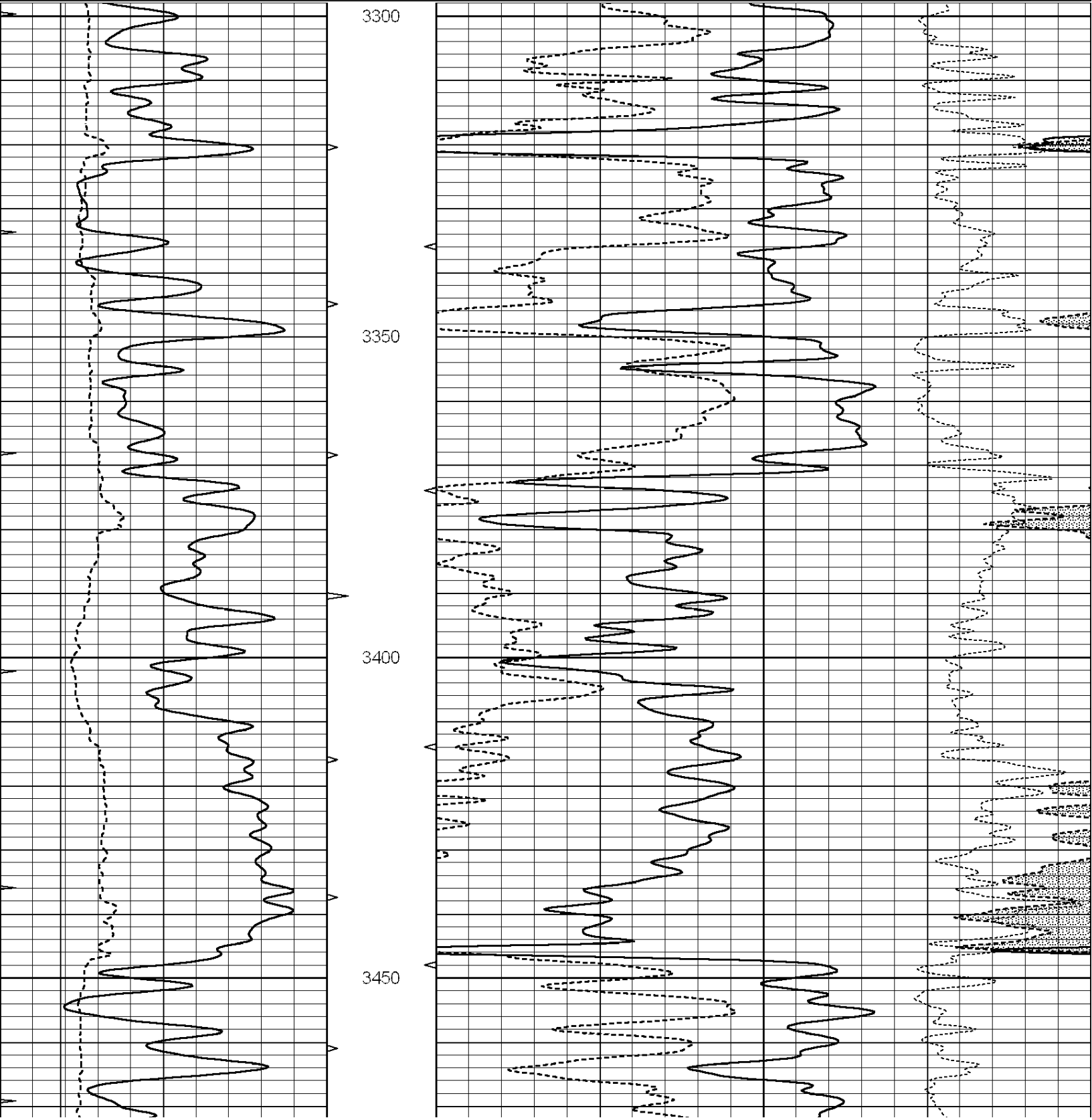


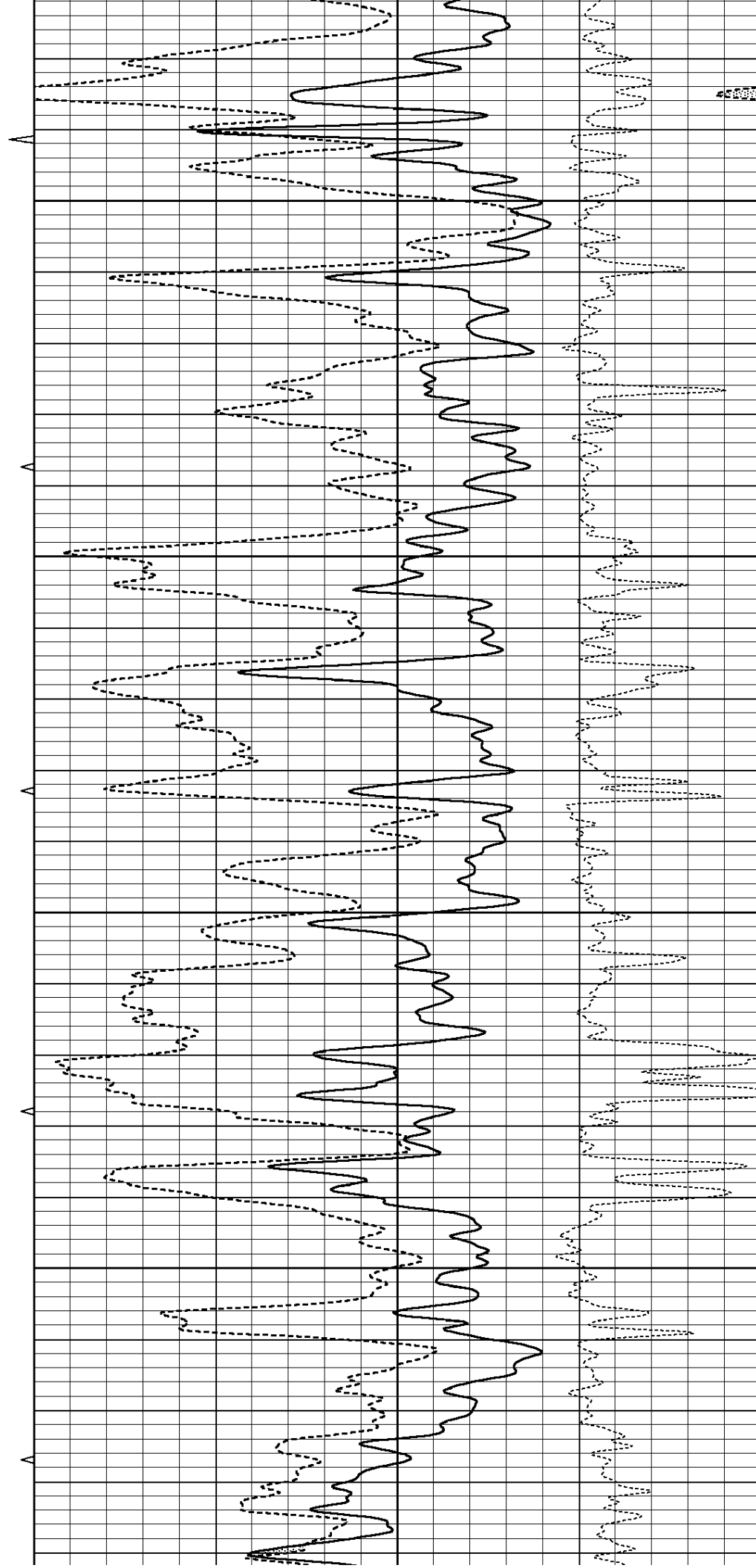
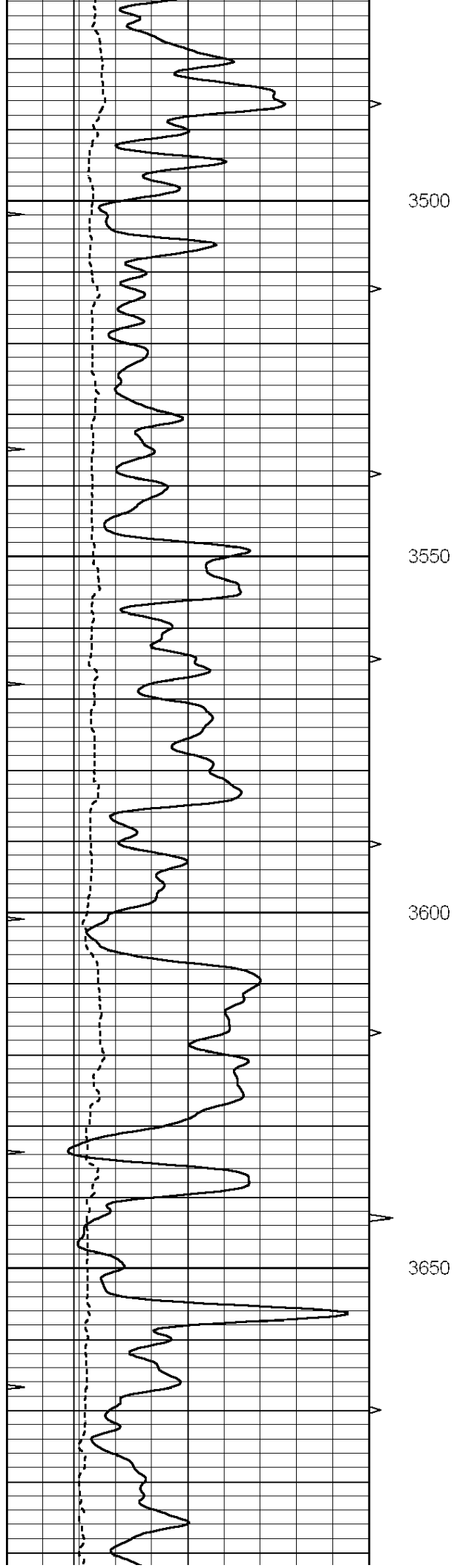
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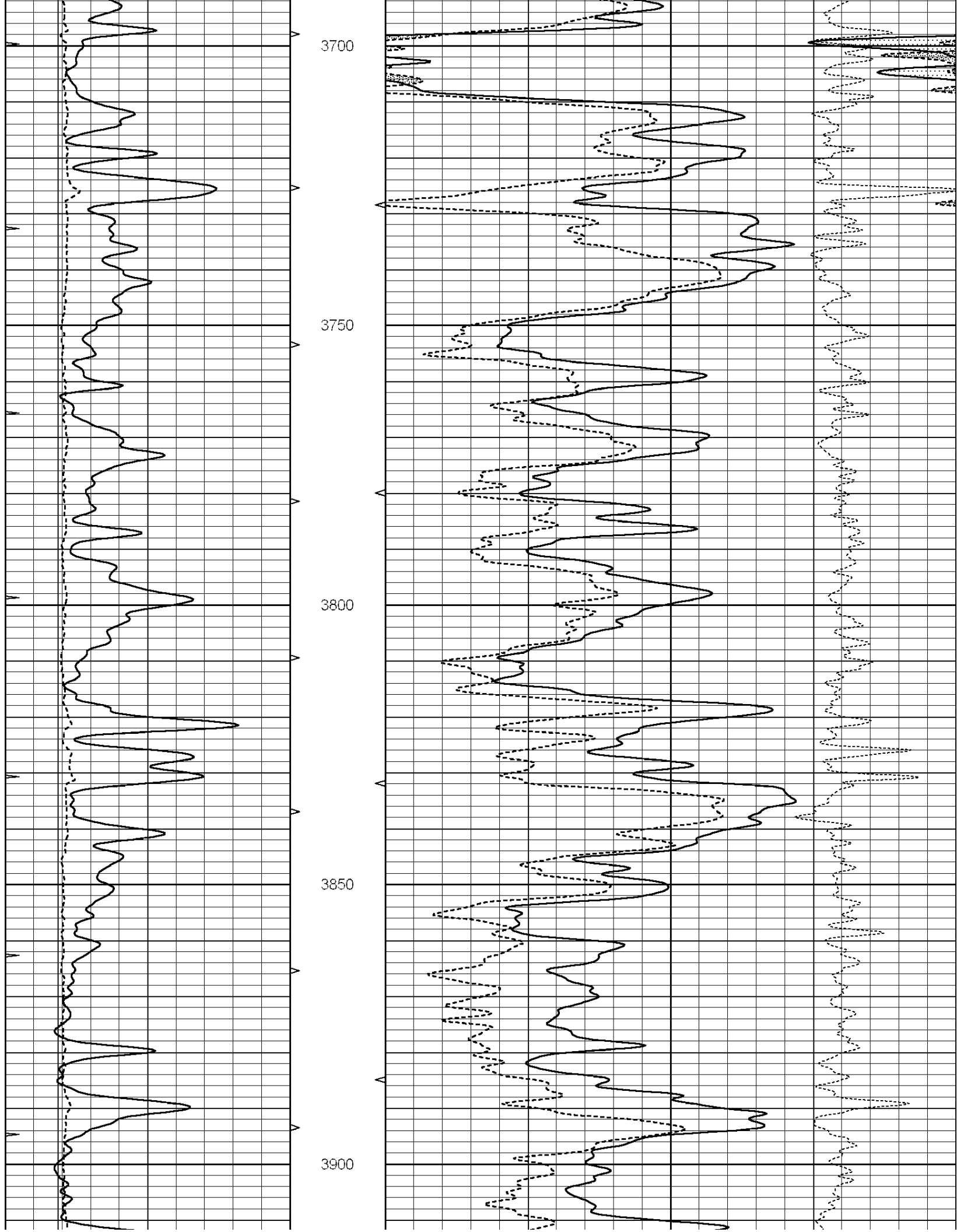
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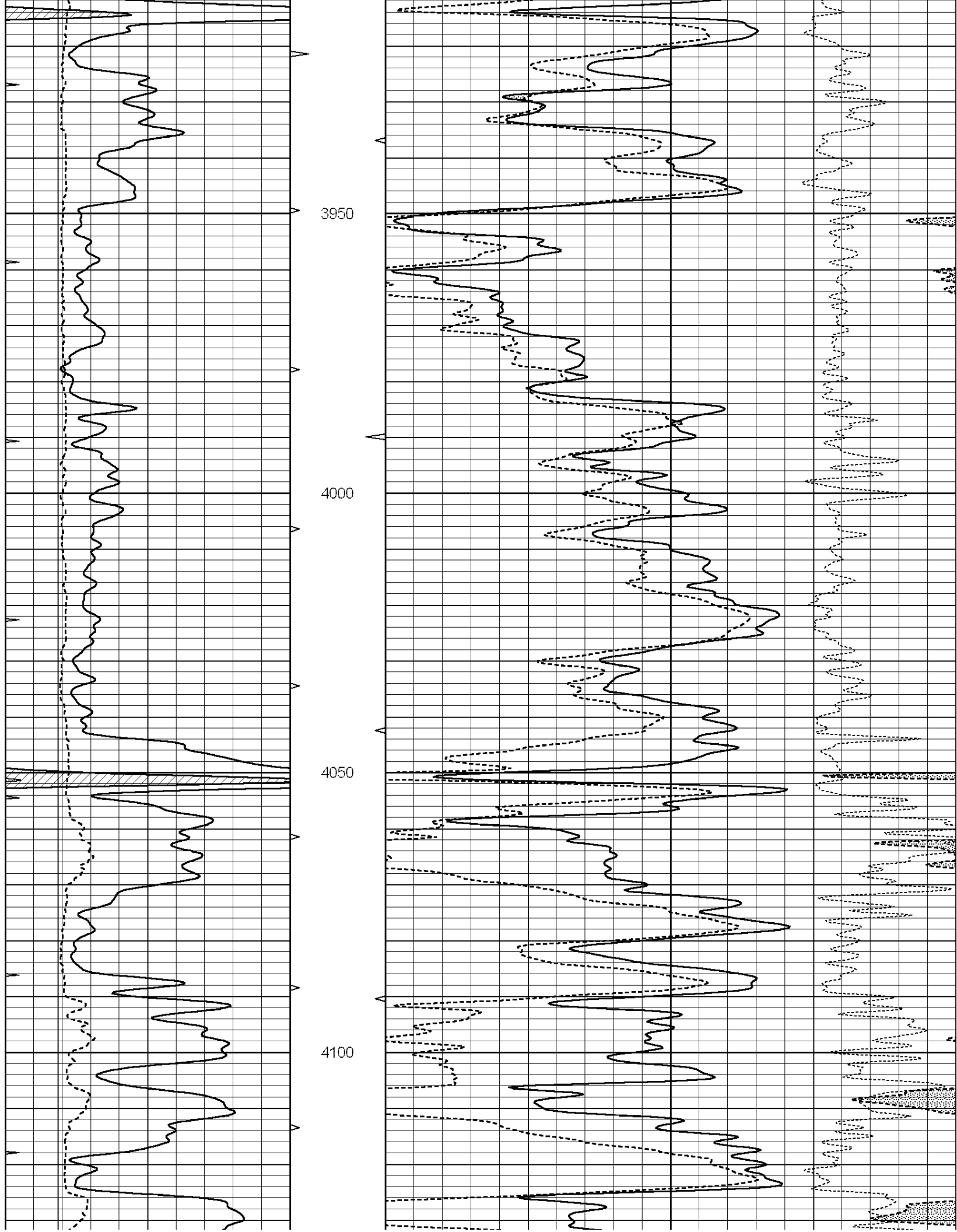
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Presentation Format: den_neu
Dataset Creation: Sun Sep 30 23:25:54 2012
Charted by: Depth in Feet scaled 1:240

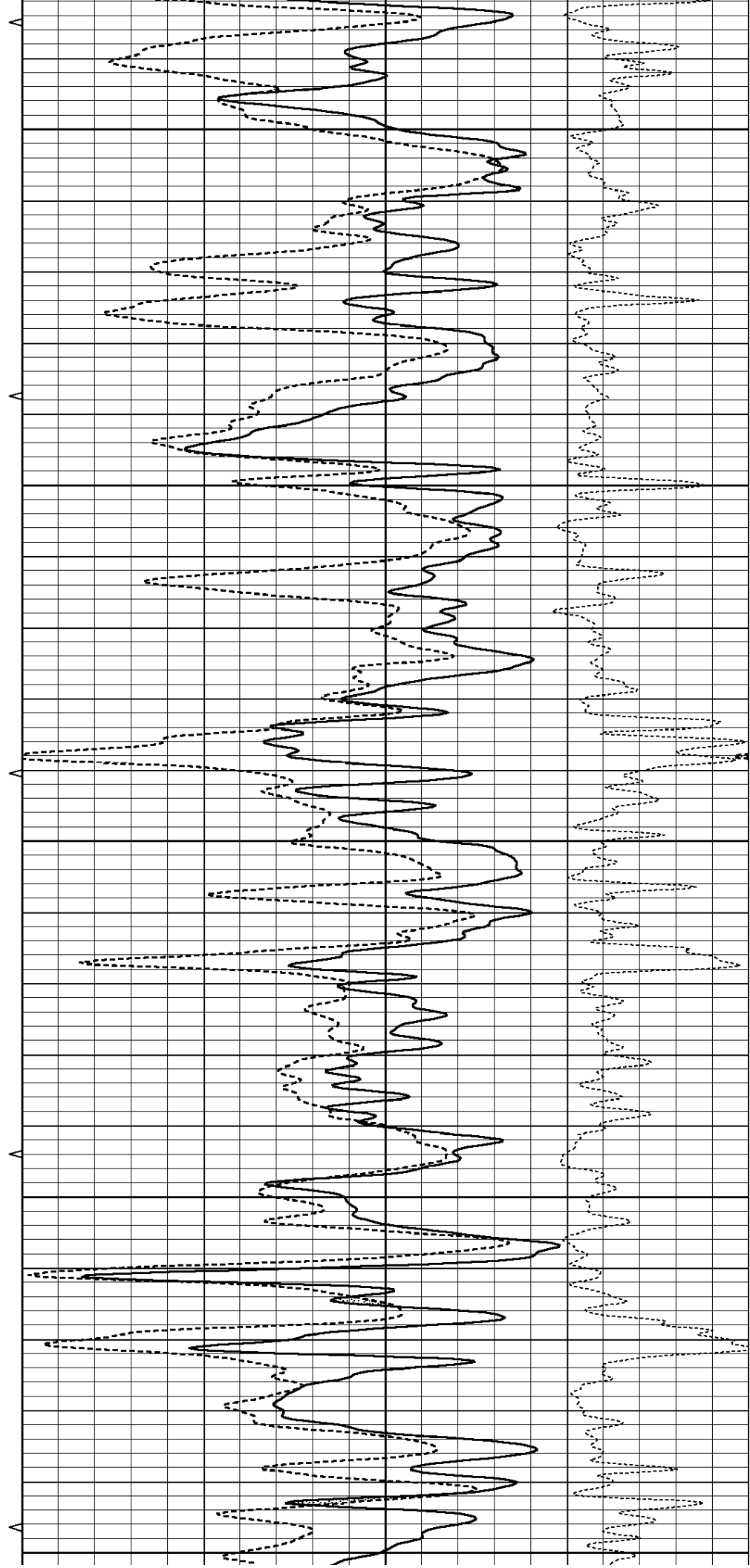
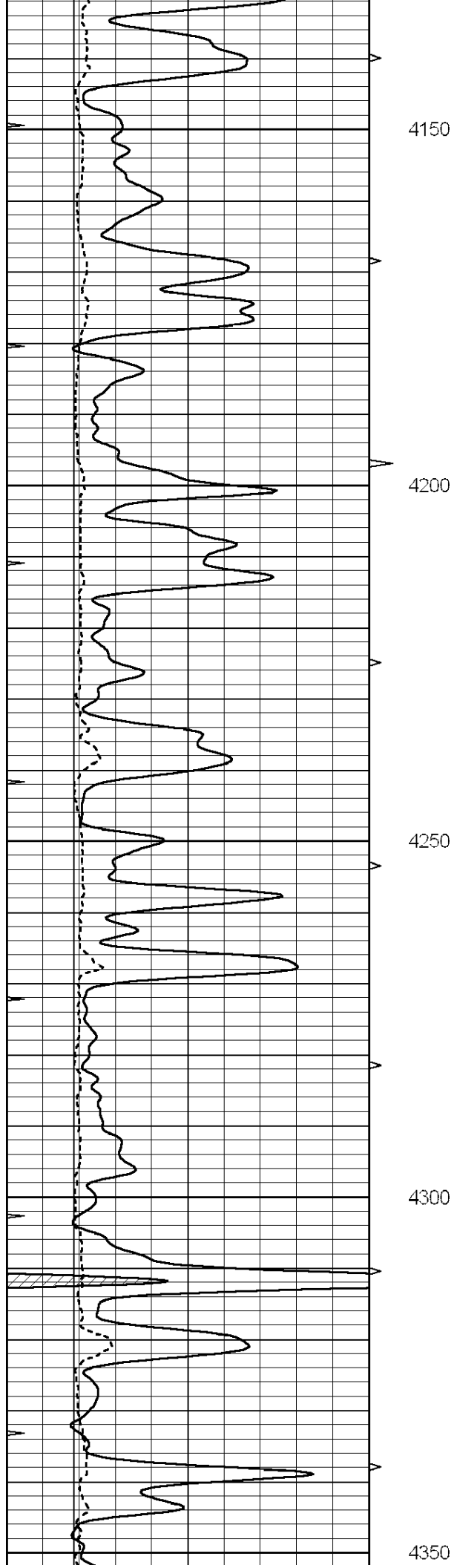
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6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		

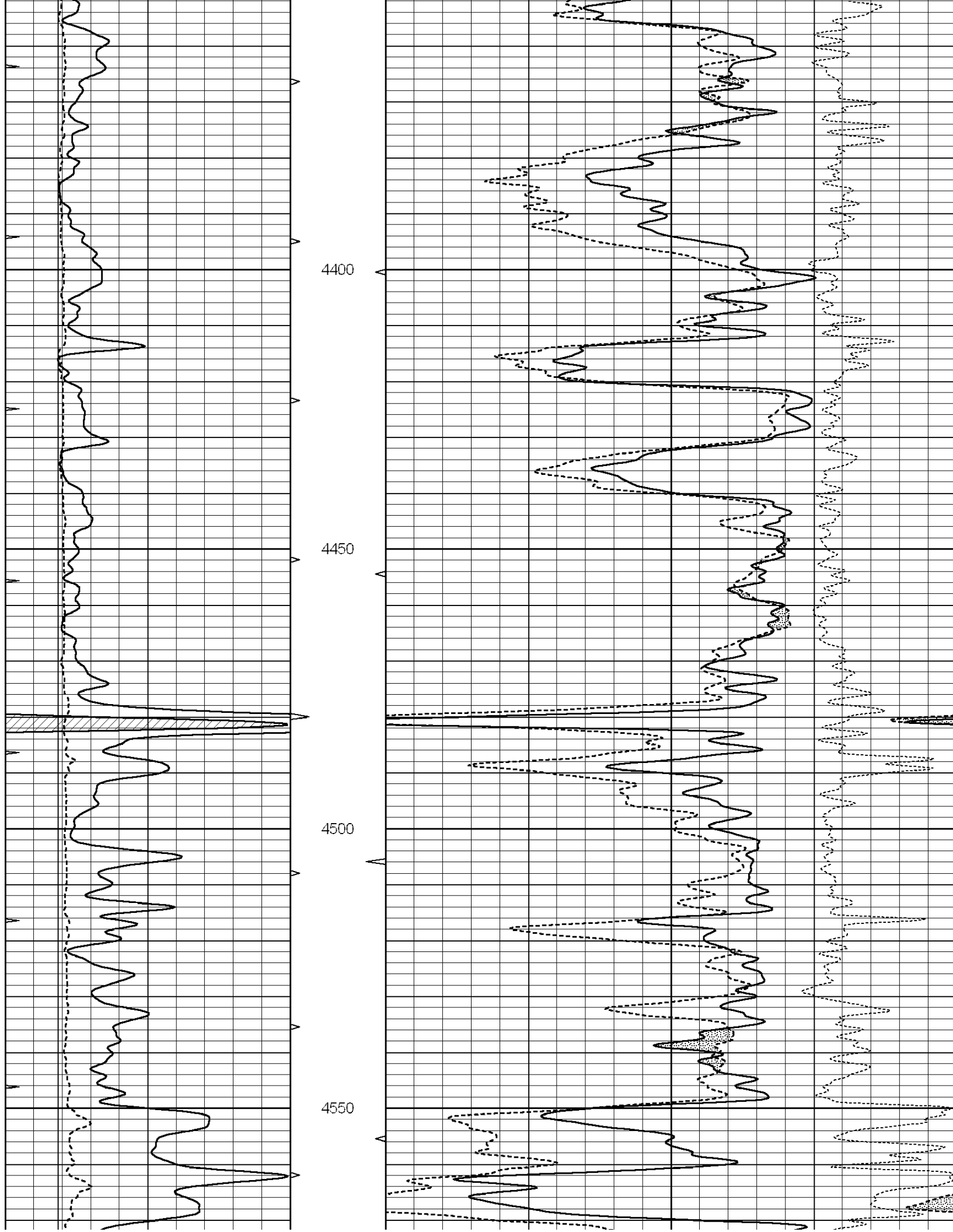


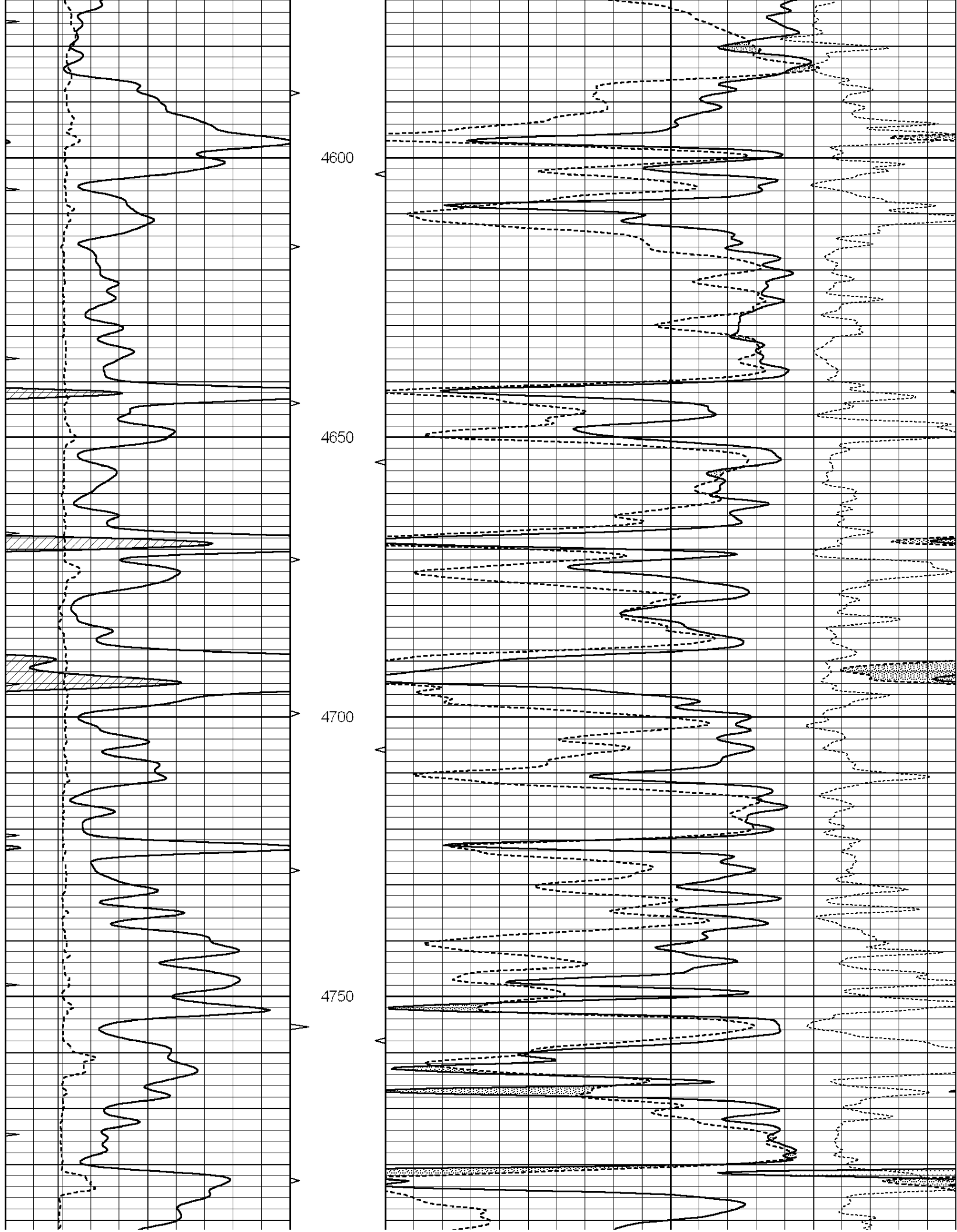


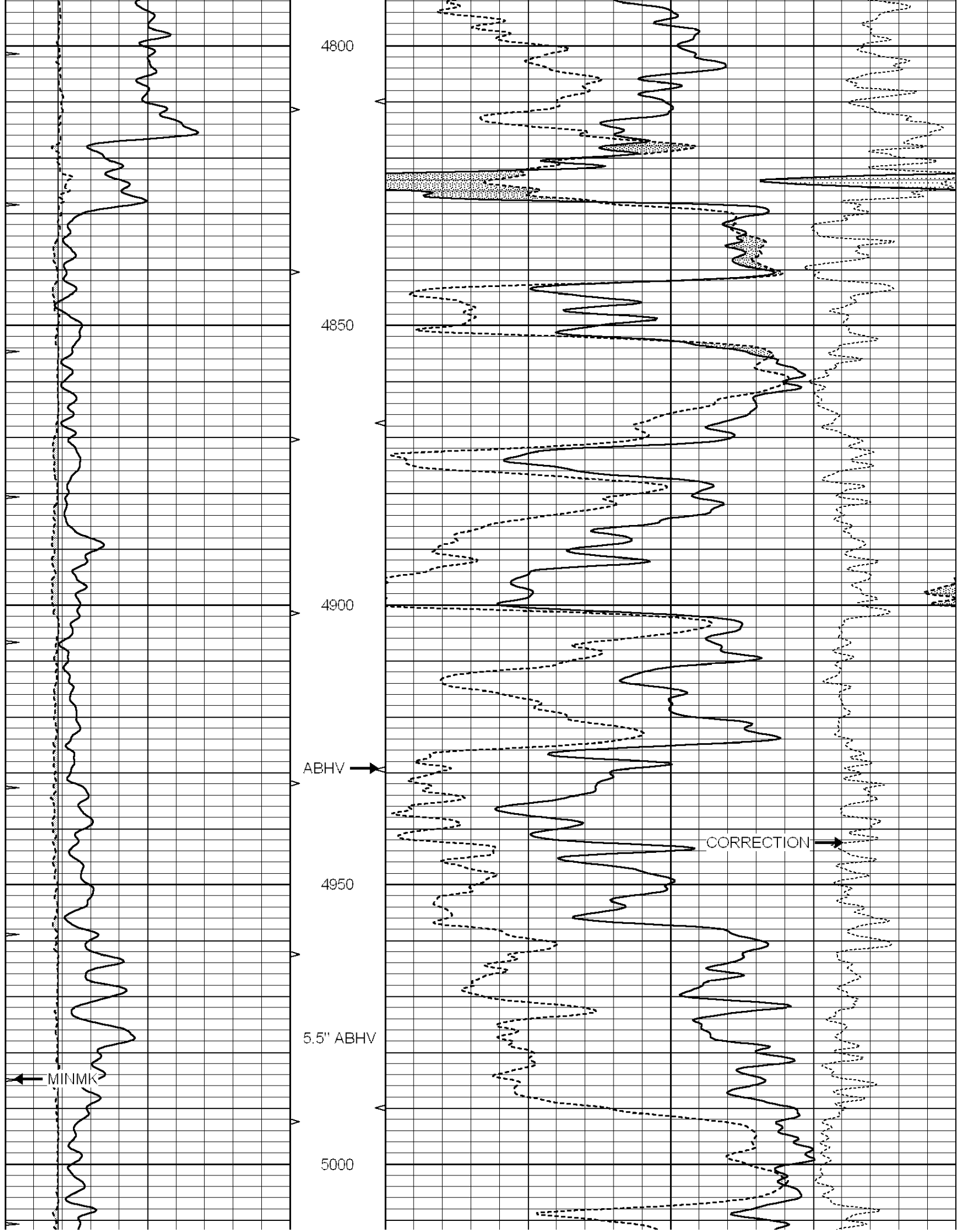


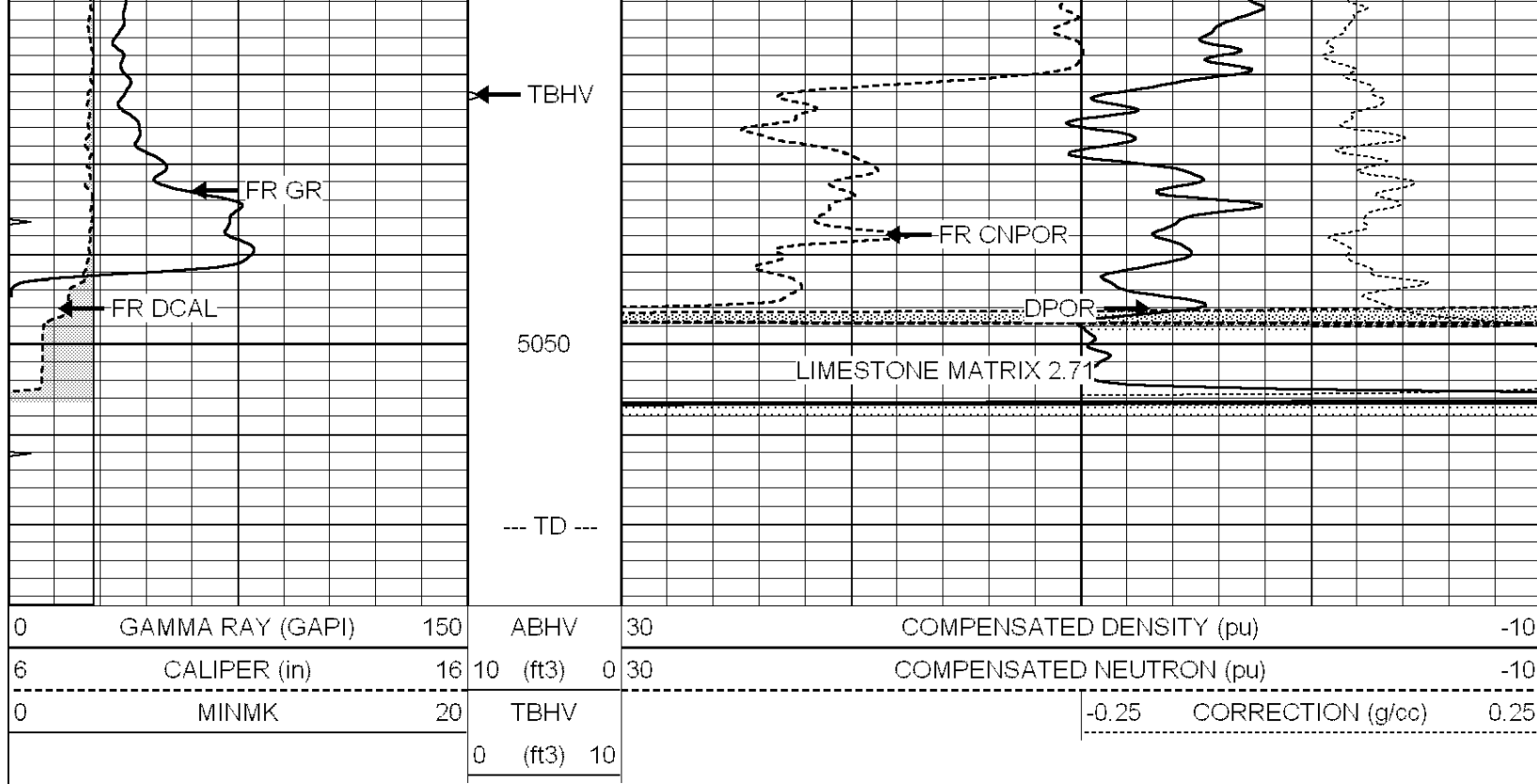










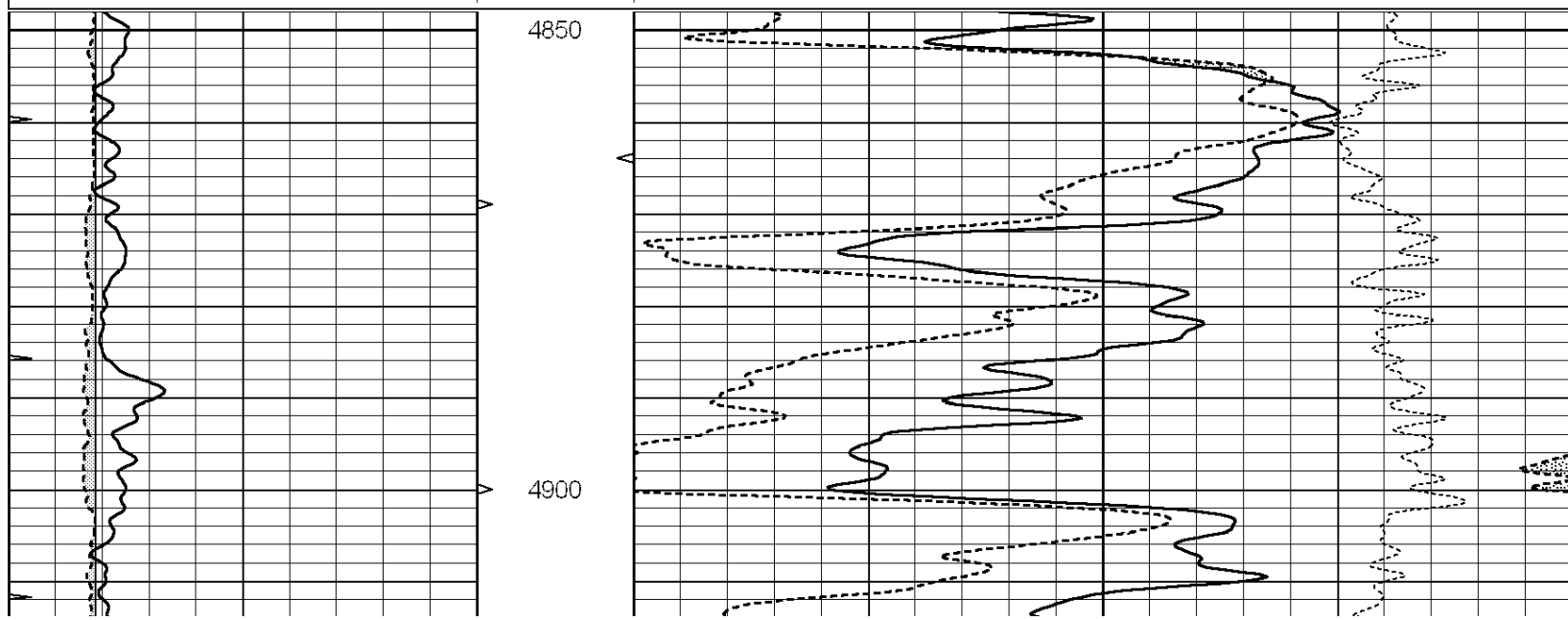


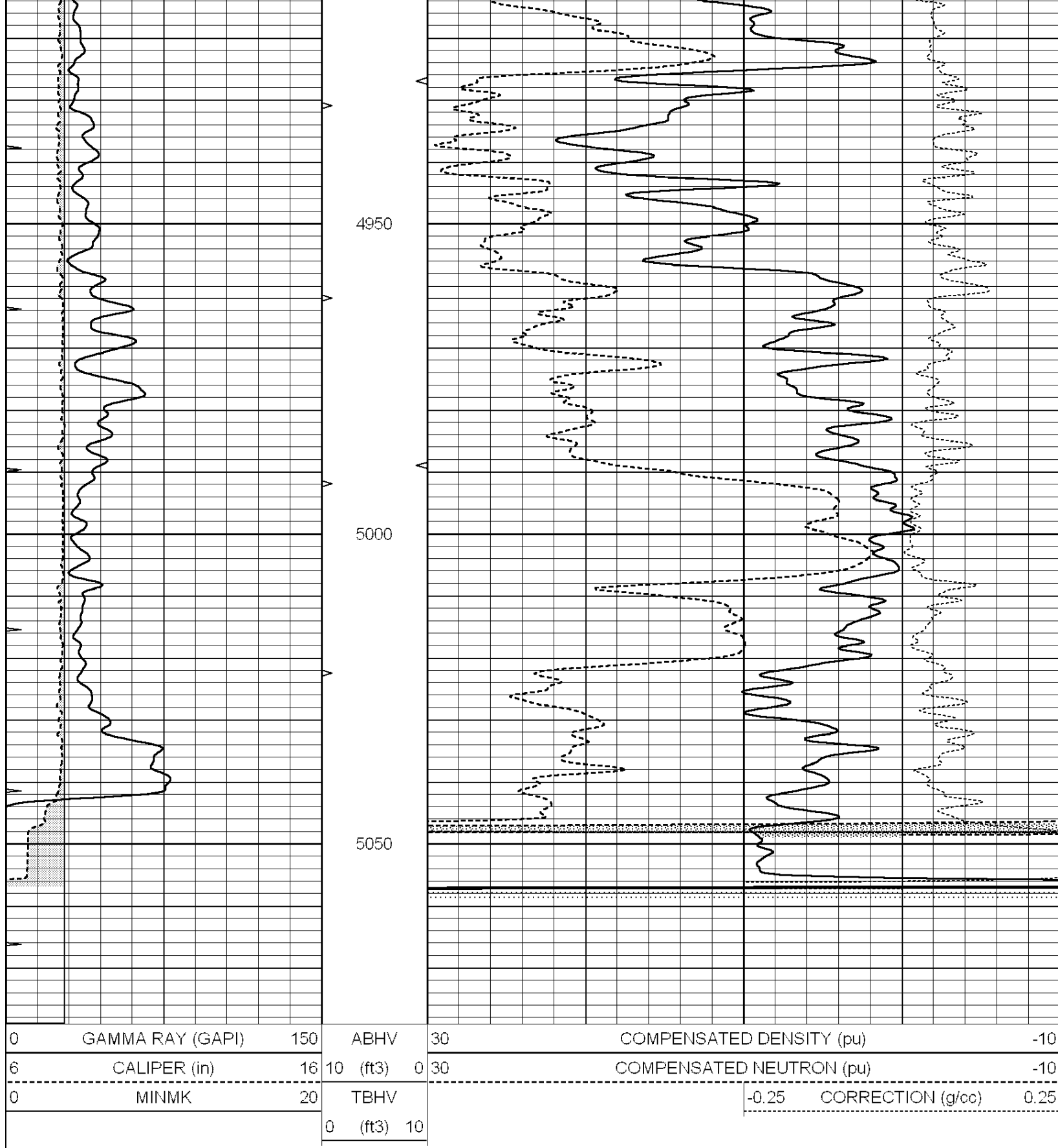
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REPEAT SECTION

Database File: 009674ddn.db
 Dataset Pathname: pass2.A
 Presentation Format: den_neu
 Dataset Creation: Sun Sep 30 23:18:11 2012
 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		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		





Calibration Report

Database File: 009674ddn.db
Dataset Pathname: pass3.1A
Dataset Creation: Sun Sep 30 23:25:54 2012

Dual Induction Calibration Report

Serial-Model:
Performed:

DIL5-GEAR
Sun Sep 30 21:12:49 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	490.000	-13.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	520.000	-12.000
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

Compensated Density Calibration Report

Serial-Model:	GEAR1-GEARHART
Source / Verifier:	147 / 147
Master Calibration Performed:	Mon Sep 17 09:35:35 2012

Master Calibration						
	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		1205.67	613.10	cps
Aluminum	2.580	g/cc		277.64	430.46	cps
Spine Angle = 76.46			Density/Spine Ratio = 0.576			
	Size			Reading		
Small Ring	9.50	in		4.69	V	
Large Ring	14.00	in		6.52	V	

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:	Sat Sep 29 23:38:36 2012	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.7500	GAPI/cps