



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	RITCHIE EXPLORATION, INC.		
Well	#2 POTOSI		
Field	THUNDER		
County	FORD	State	KANSAS
Location:	API # : 15-057-20856		Other Services
	1662' FNL & 335' FWL		DIL
	SEC 13 TWP 27S RGE 24W		
Permanent Datum	GROUND LEVEL	Elevation	2440
Log Measured From	KELLY BUSHING 11' A.G.L.	K.B. 2451	
Drilling Measured From	KELLY BUSHING	D.F. 2440	
Date	11-17-12		
Run Number	ONE		
Depth Driller	5100		
Depth Logger	5105		
Bottom Logged Interval	5081		
Top Log Interval	3400		
Casing Driller	350		
Casing Logger	350		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.3 / 66		
pH / Fluid Loss	9.0 / 8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.75 @ 64F		
Rmf @ Meas. Temp	0.56 @ 64F		
Rmc @ Meas. Temp	0.90 @ 64F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.380 @ 126F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	1:00 A.M.		
Maximum Recorded Temperature	126F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	ADAM ELDANI		

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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

NABORS COMPLETION & PRODUCTION CO.
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: WRIGHT, S TO K-#400, 1 1.2S, E & S INTO.

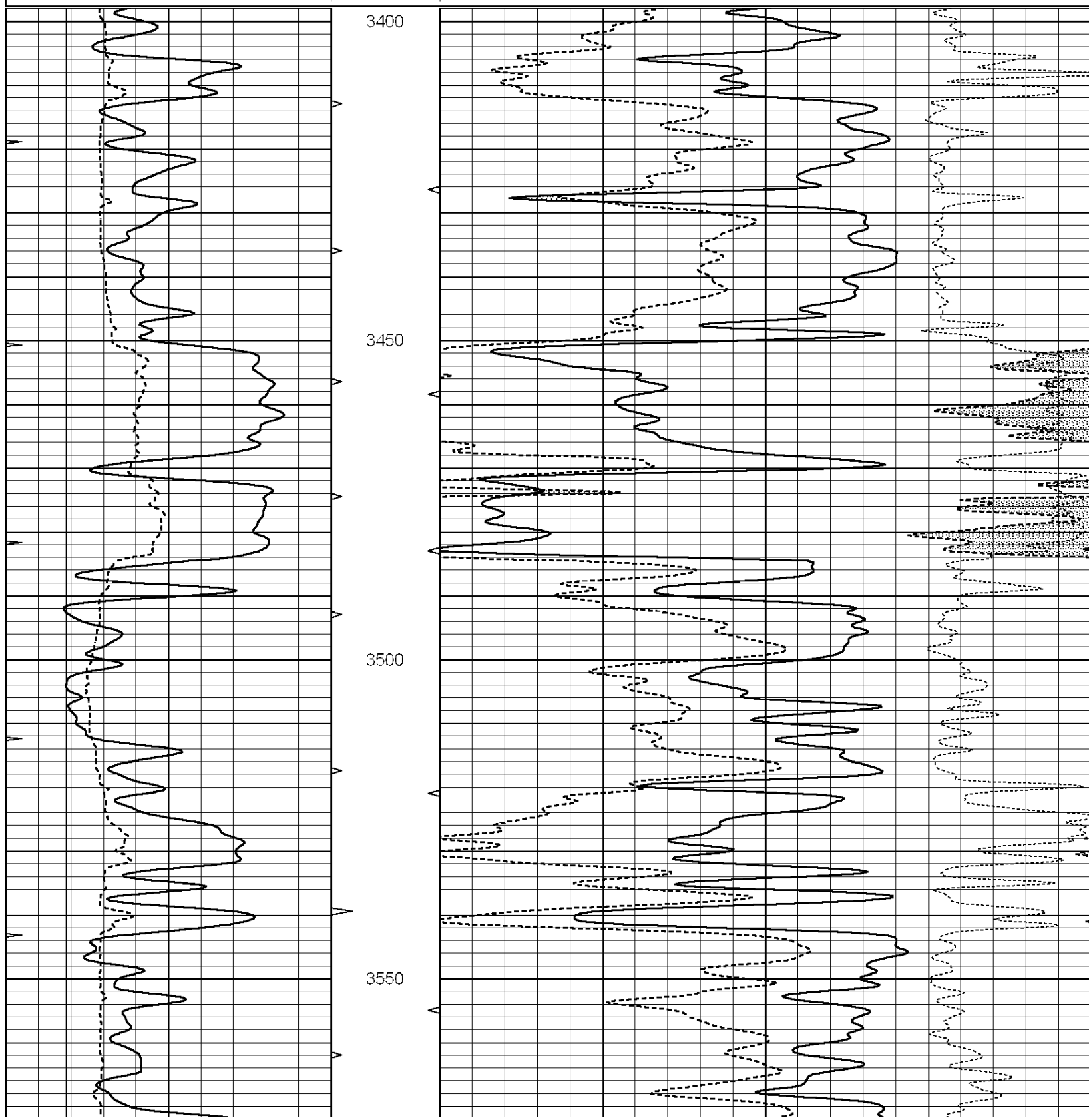


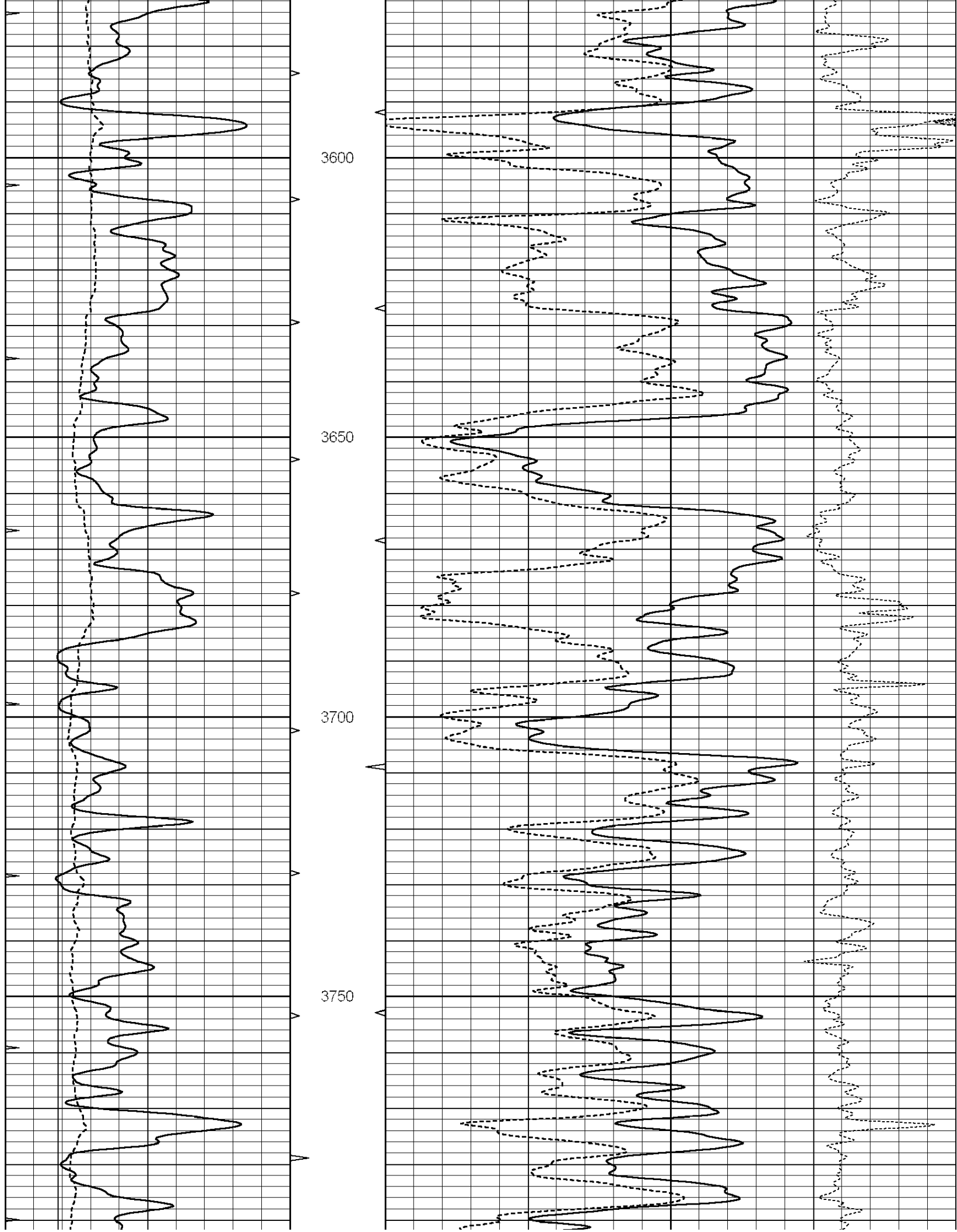
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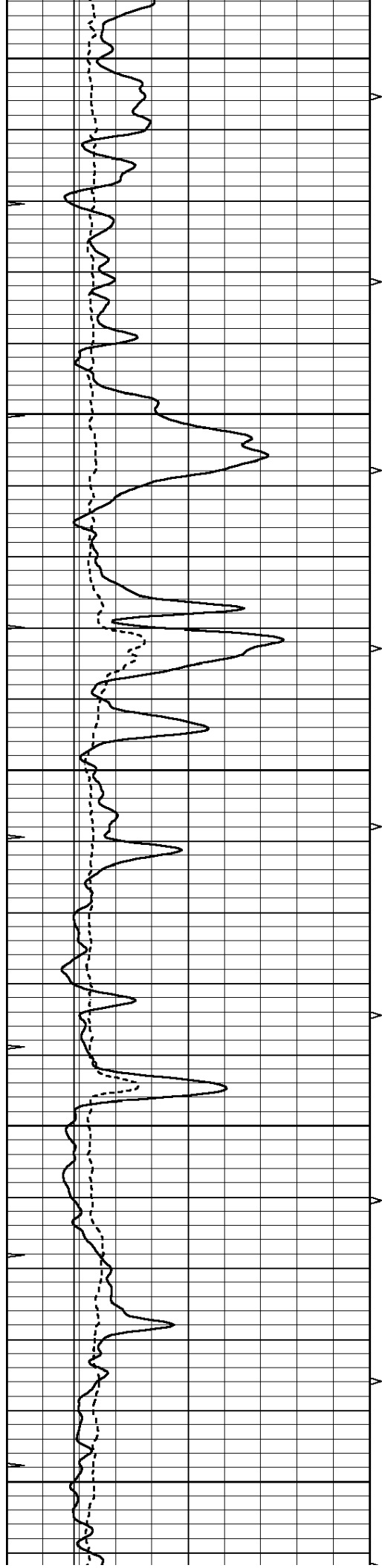
MAIN SECTION

Database File: 009950ddn.db
 Dataset Pathname: pass3.1A
 Presentation Format: den_neu
 Dataset Creation: Sun Nov 18 03:06:22 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		







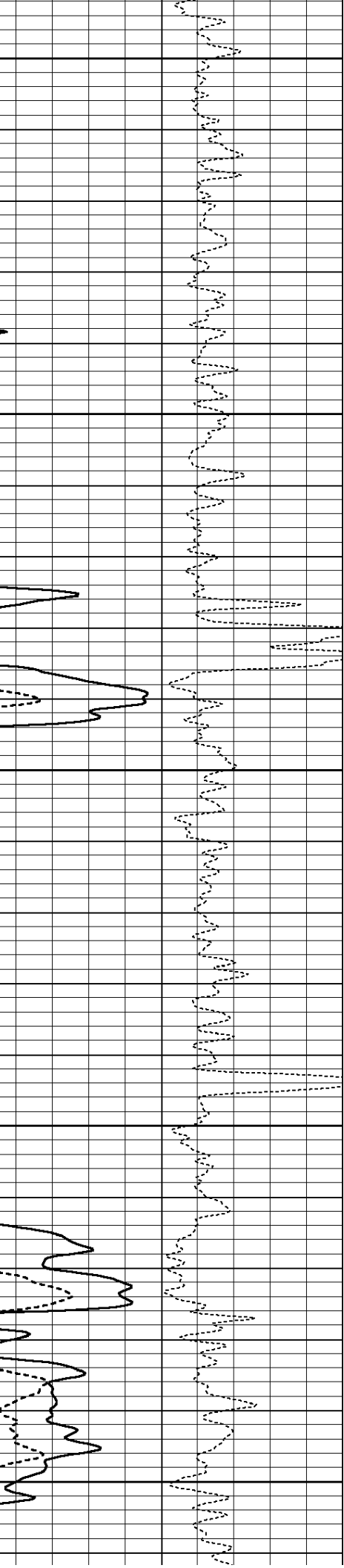
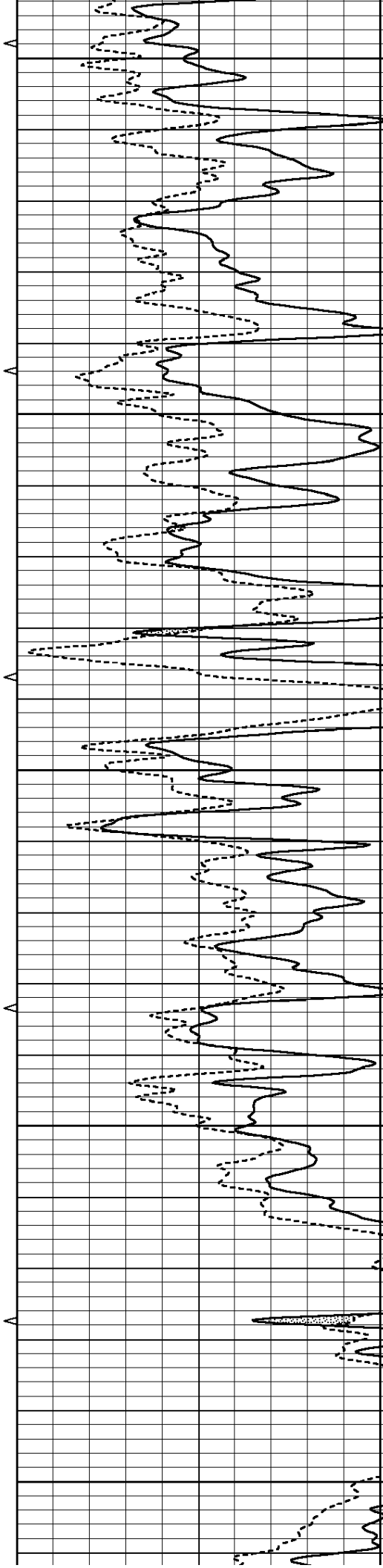
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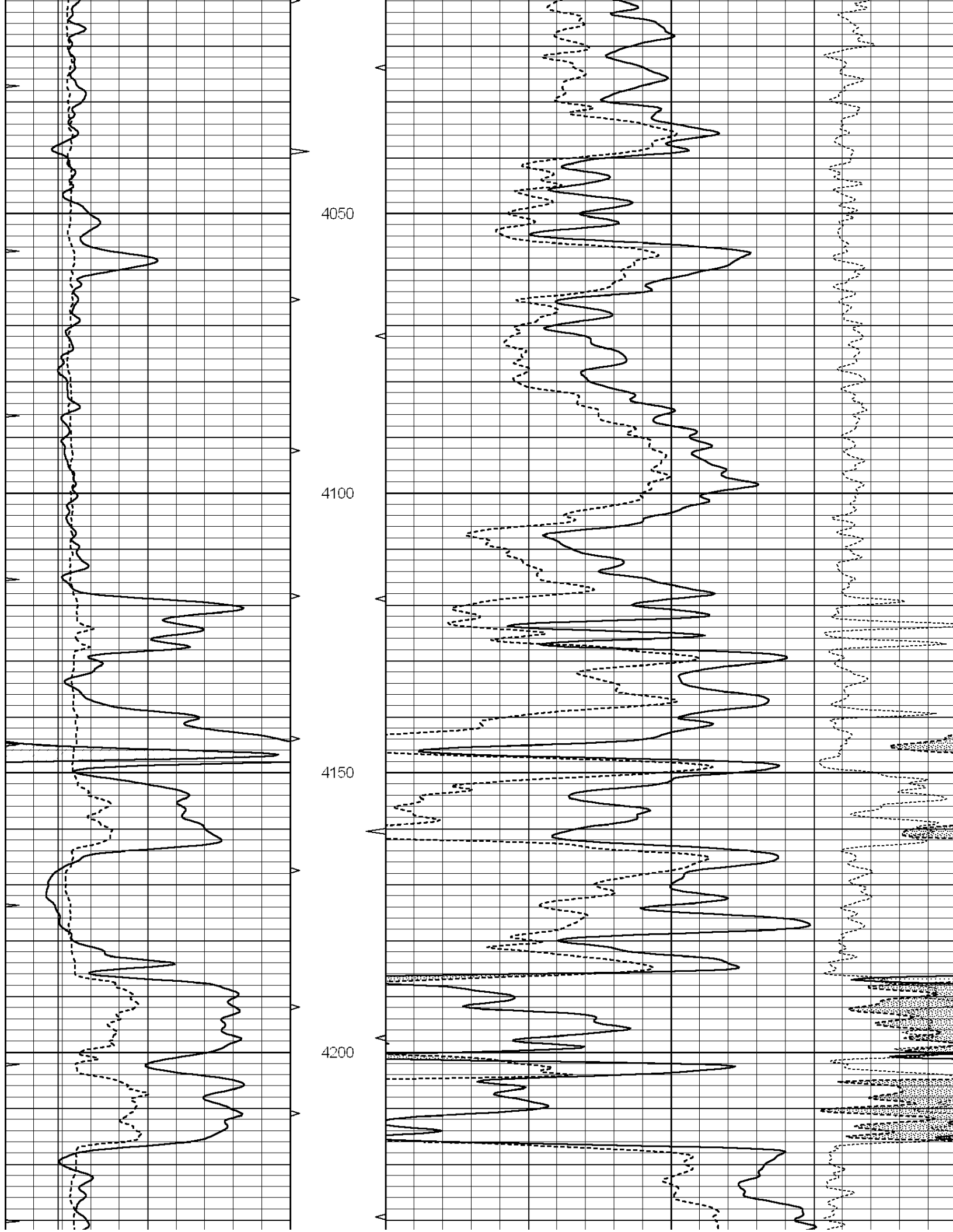
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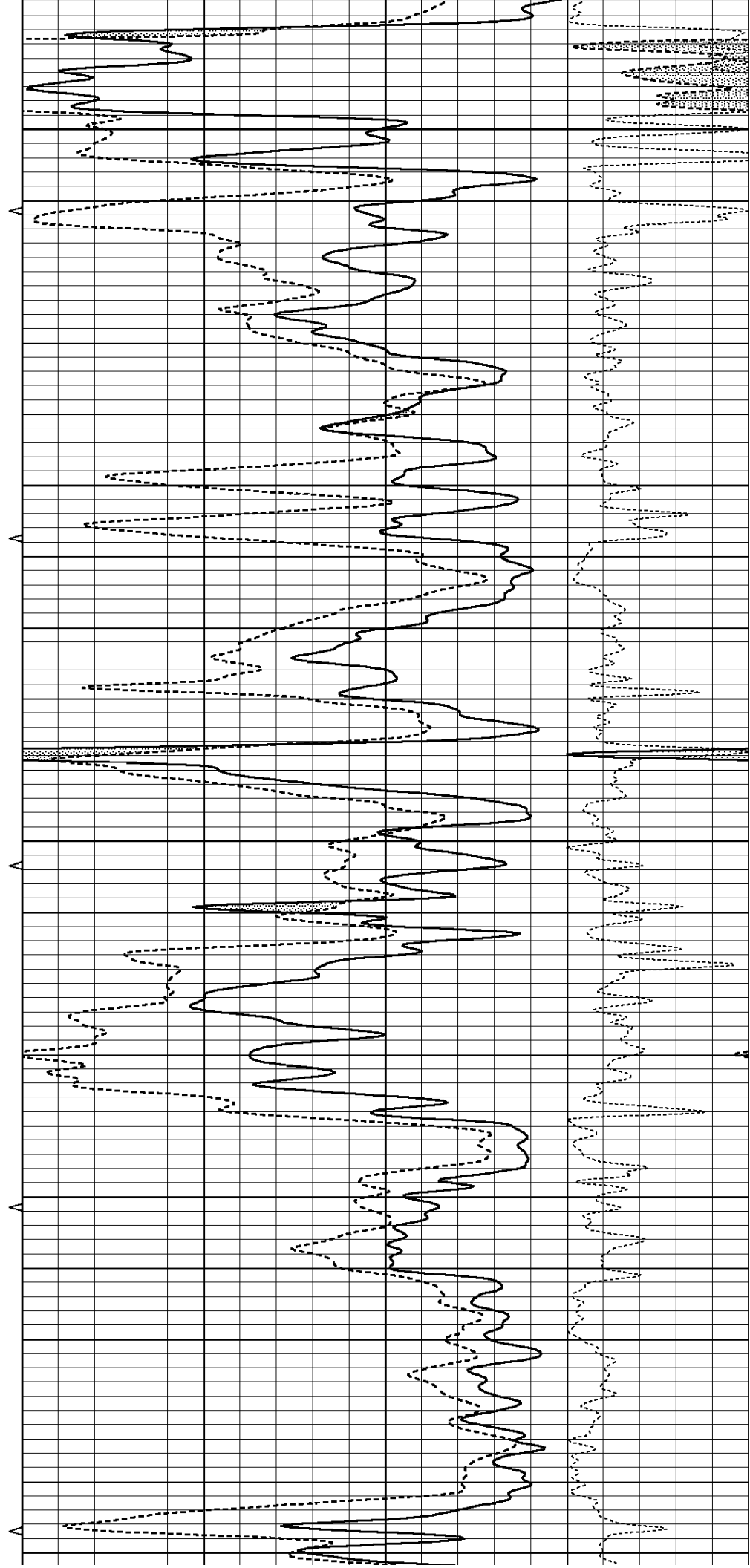
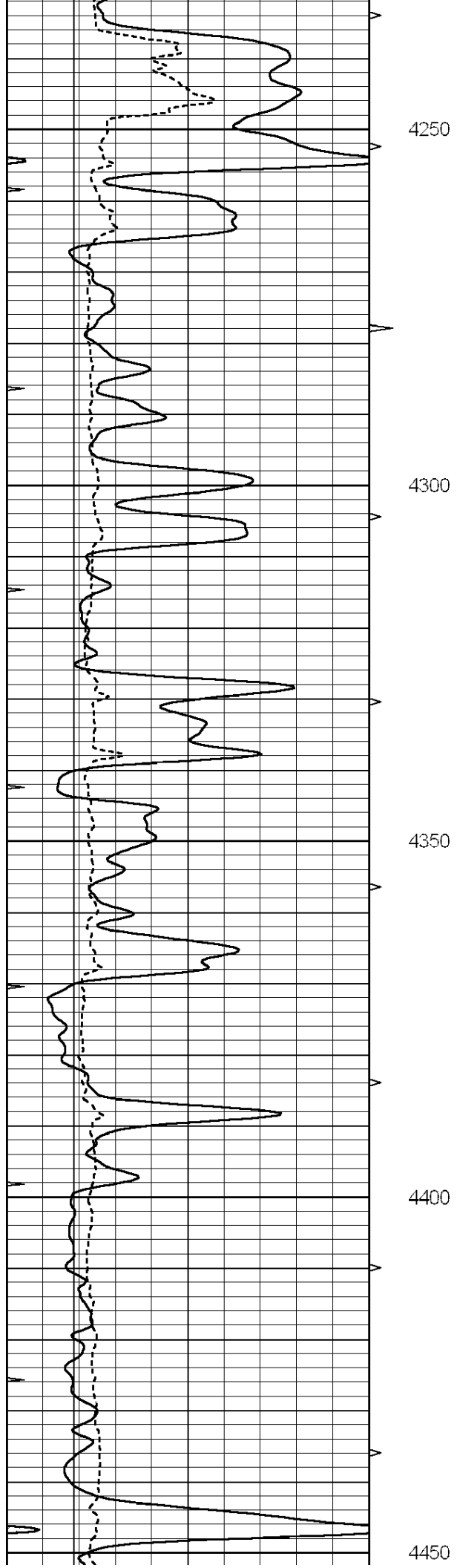
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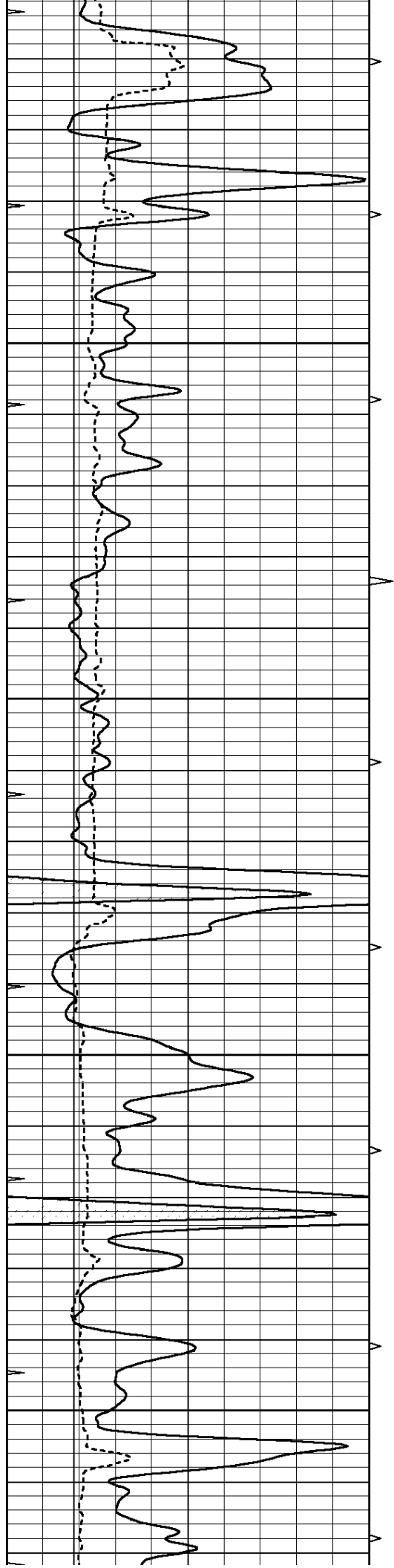
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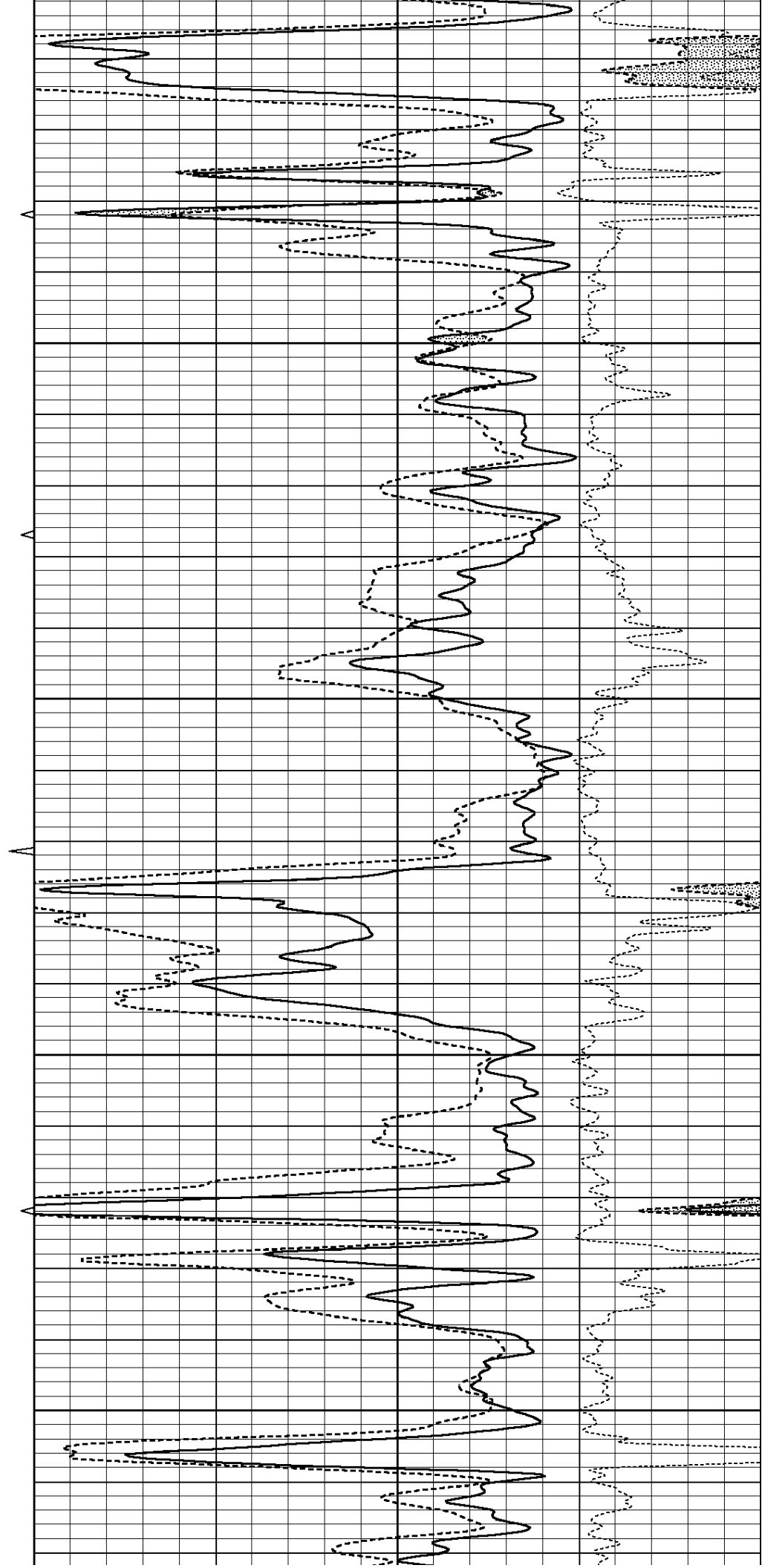


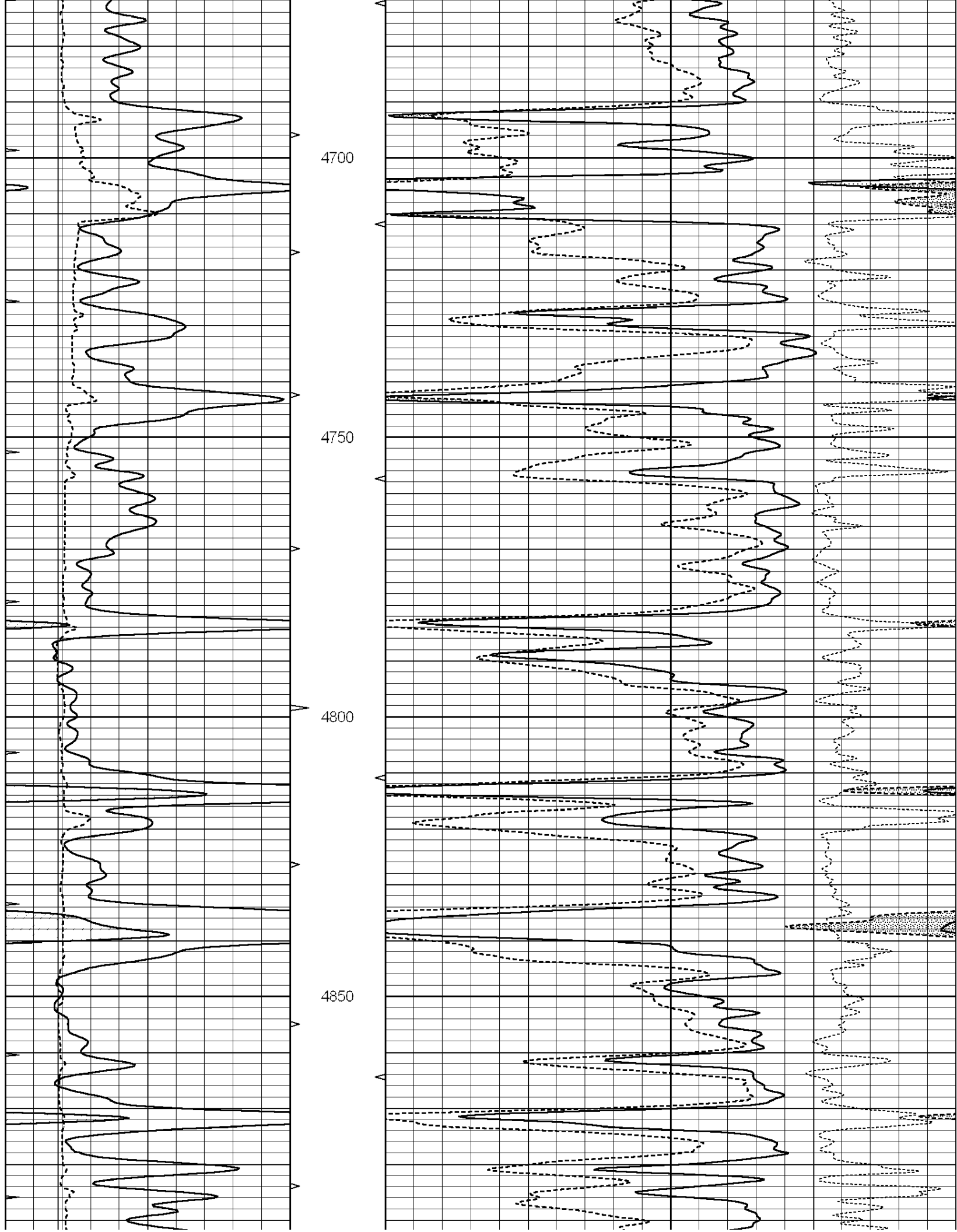
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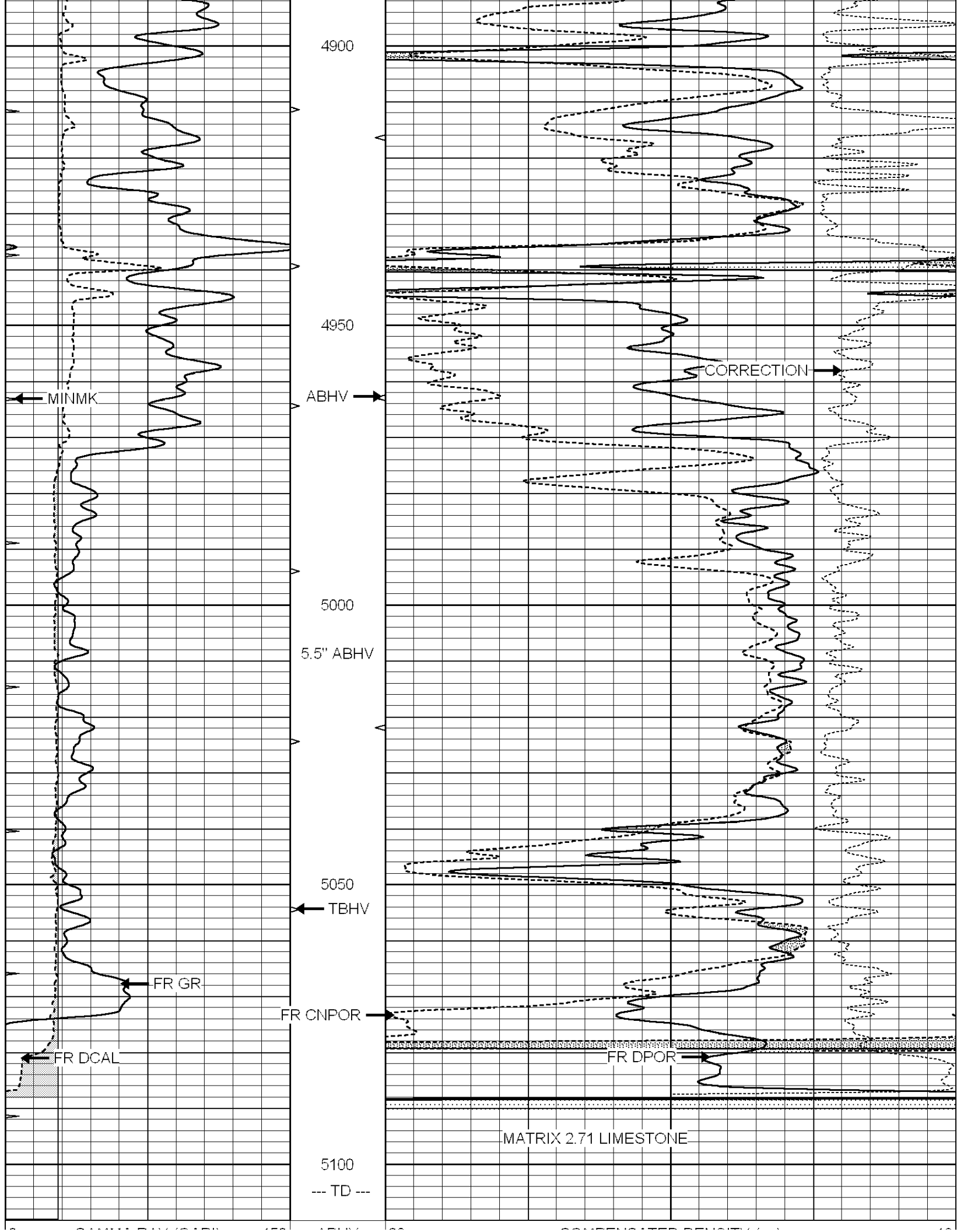
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4650







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		

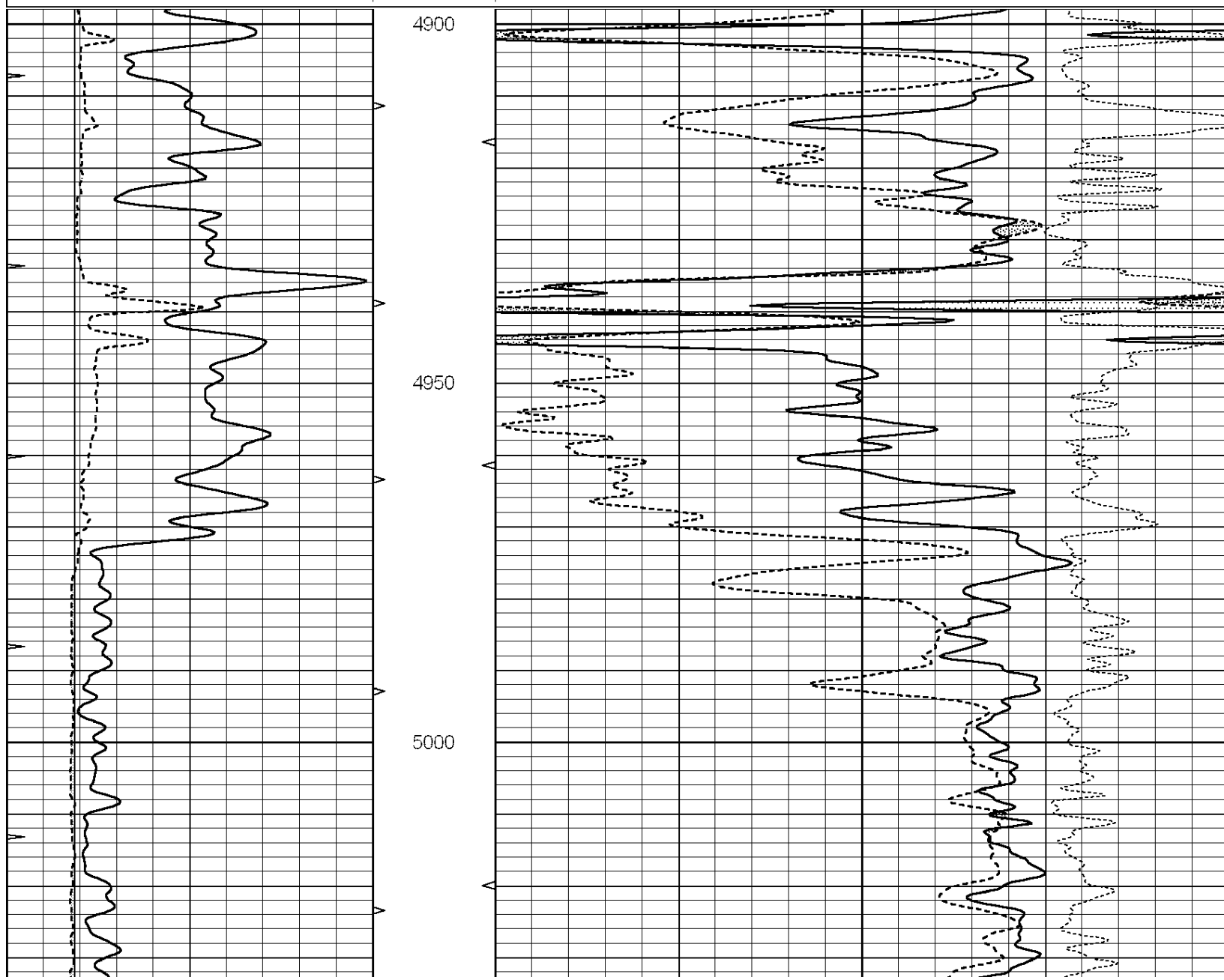


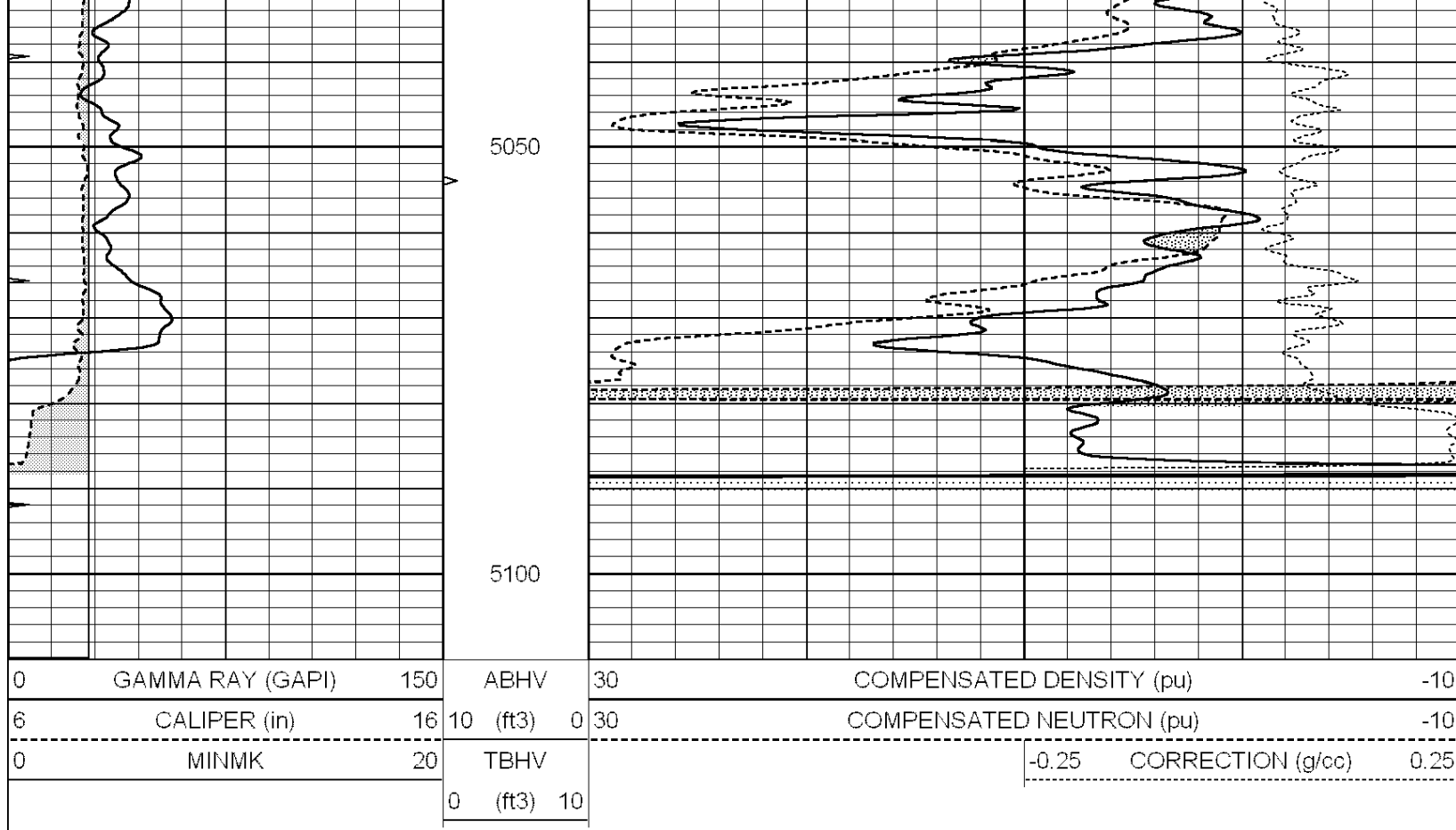
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REPEAT SECTION

Database File: 009950ddn.db
Dataset Pathname: pass2.1A
Presentation Format: den_neu
Dataset Creation: Sun Nov 18 03:08:18 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: 009950ddn.db
 Dataset Pathname: pass3.1A
 Dataset Creation: Sun Nov 18 03:06:22 2012

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Sun Nov 18 01:24:45 2012

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho/m	470.000	-10.000
Medium	-0.005	0.737	V	0.000	462.500	mmho/m	490.000	-7.500
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: Sun Nov 18 01:24:34 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1205.67	613.10	cps
Aluminum	2.590	g/cc	277.64	430.46	cps

Spine Angle = 76.46

Density/Spine Ratio = 0.583

	Size		Reading		
Small Ring	8.75	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:		Sun Nov 18 01:33:42 2012			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.7500	GAPI/cps		