



**SUPERIOR
Hays,
Kansas**

**COMPENSATED
DENSITY
NEUTRON LOG**

Company	RAYMOND OIL COMPANY, INC.		
Well	#1 ROSE "A"		
Field	WILDCAT		
County	LOGAN	State	KANSAS
Location:	API #: 15-109-20852		Other Services DIL SONIC/MEL
1143' SL & 1834' FEL			
SEC 2 TWP 14S RGE 32W			
Permanent Datum	GROUND LEVEL	Elevation	2843
Log Measured From	KELLY BUSHING 5' A.G.L.		
Drilling Measured From	KELLY BUSHING	Elevation	K.B. 2848 D.F. G.L. 2843

Date	8-8-09		
Run Number	ONE		
Depth Driller	4599		
Depth Logger	4598		
Bottom Logged Interval	4574		
Top Log Interval	3350		
Casing Driller	260		
Casing Logger	NA		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5 / 49		
pH / Fluid Loss	9.5 / 10.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.50 @ 92F		
Rinf @ Meas. Temp	0.38 @ 92F		
Rmc @ Meas. Temp	0.60 @ 92F		
Source of Rinf / Rmc	MEASURED		
Rim @ BHT	.380 @ 121F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	121F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	KIM SHOEMAKER		

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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: OAKLEY, 18S TO MM#133, E INTO.

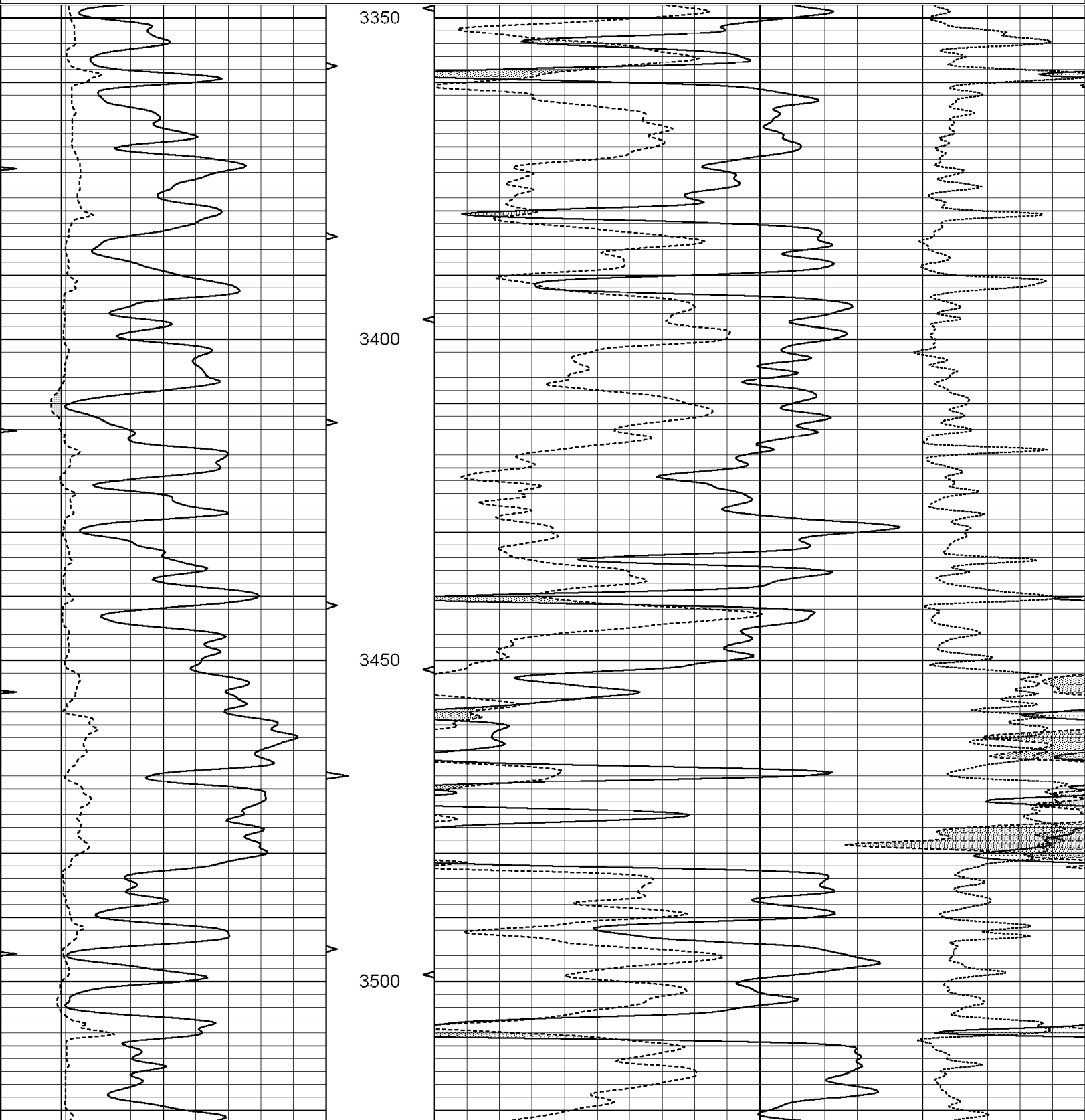


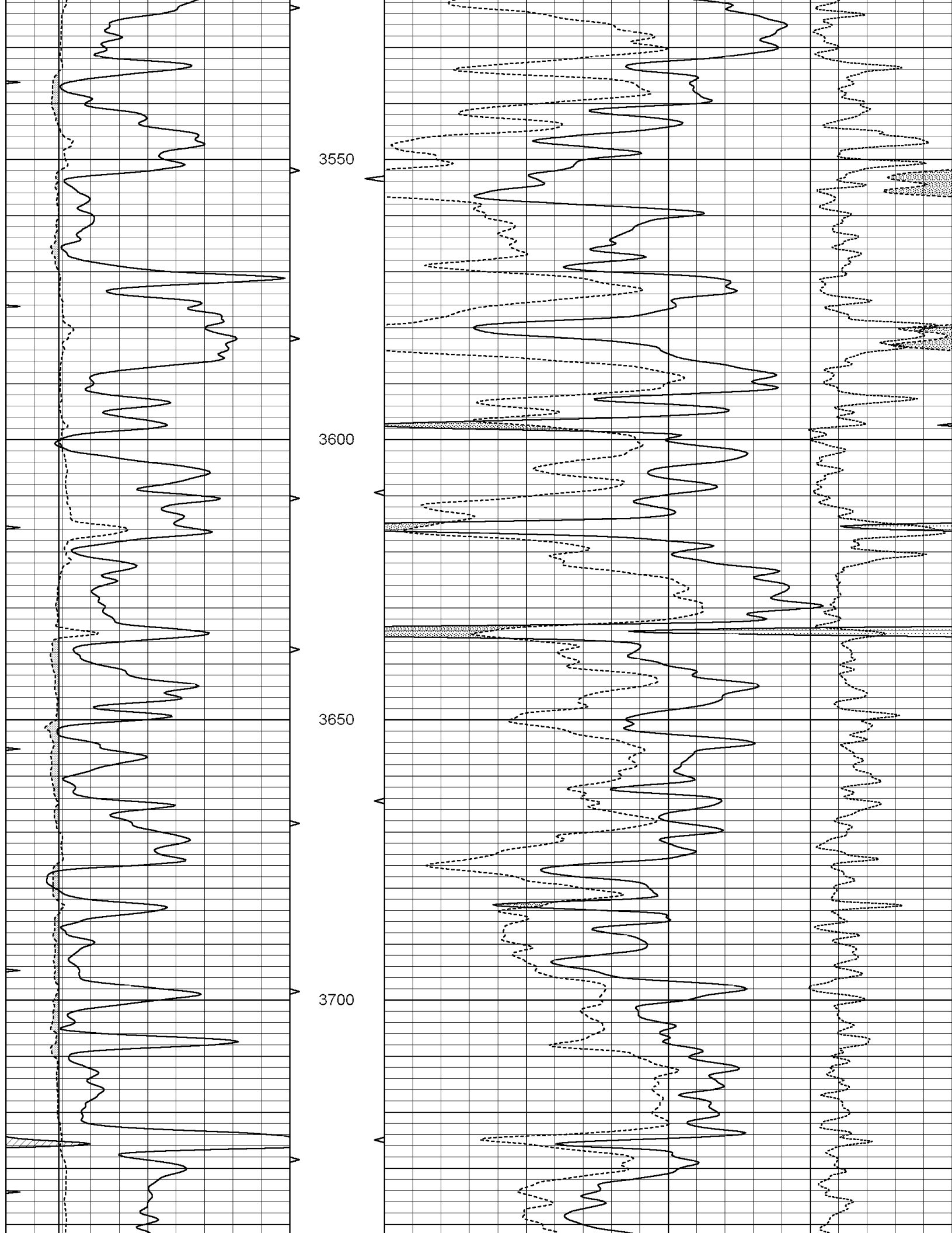
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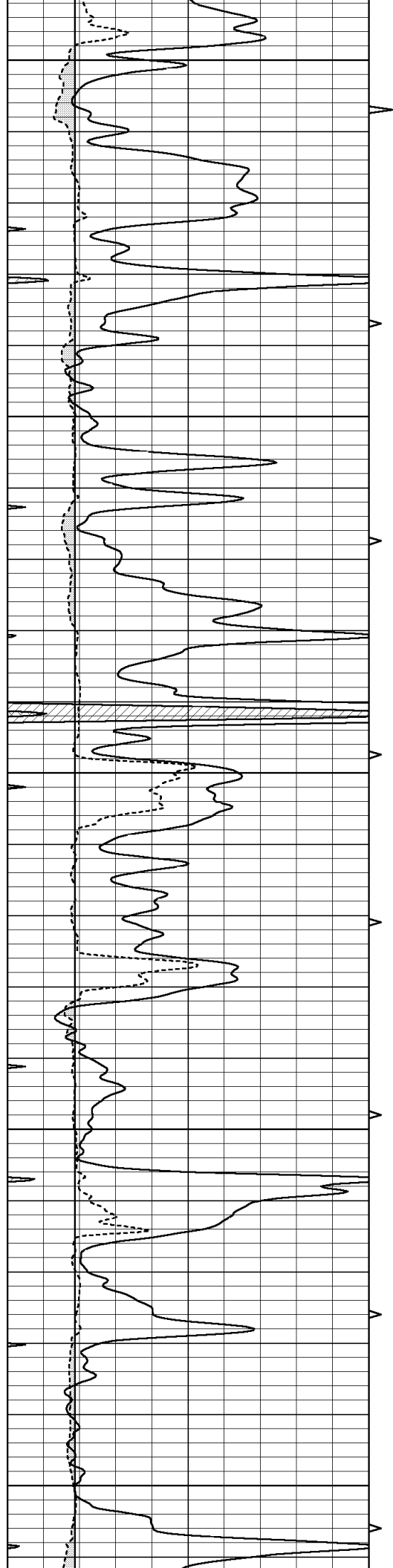
MAIN SECTION

Database File: 000715ddn.db
Dataset Pathname: pass3.1
Presentation Format: den_neu
Dataset Creation: Sat Aug 08 04:11:08 2009 by Calc Open-Cased 051020
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			







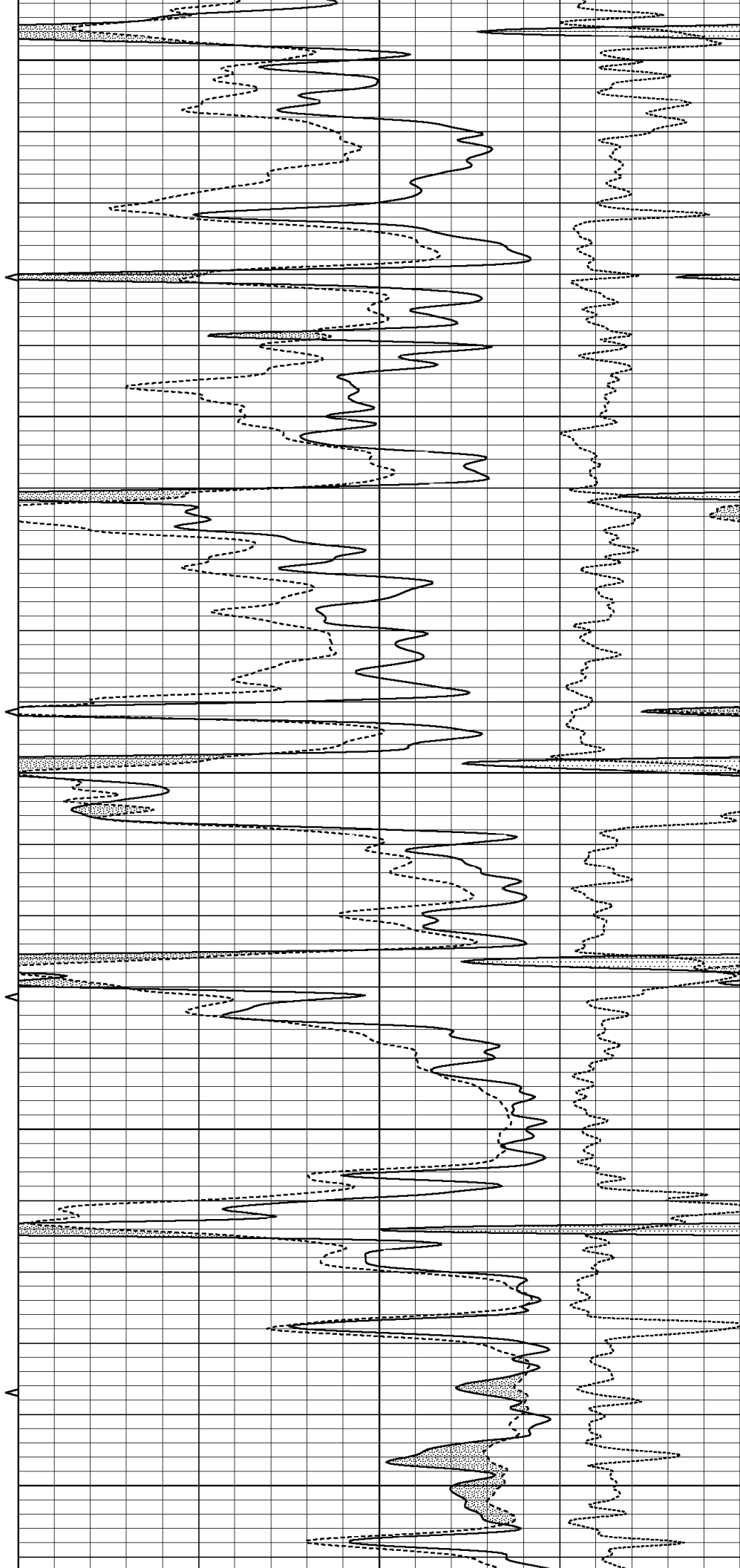
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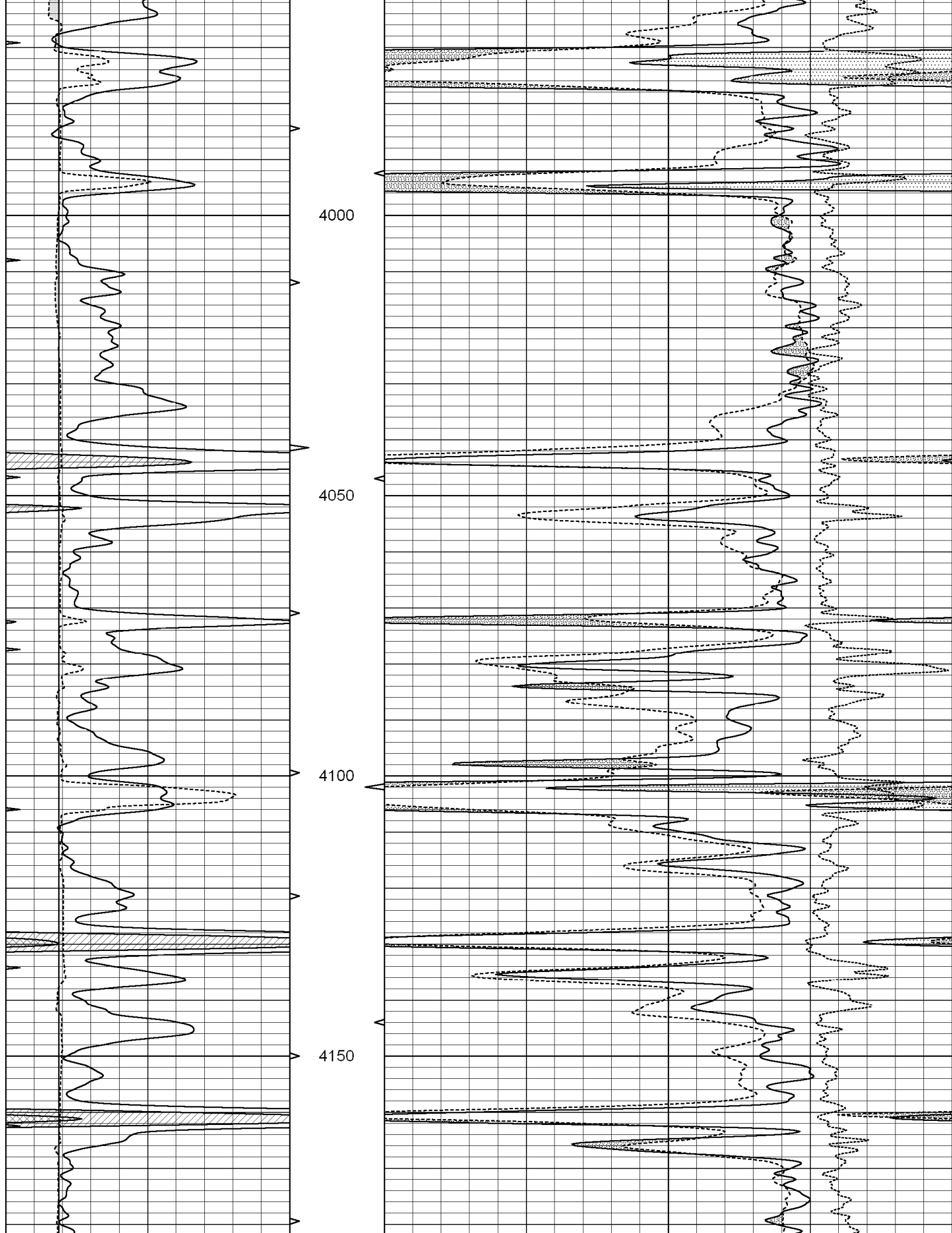
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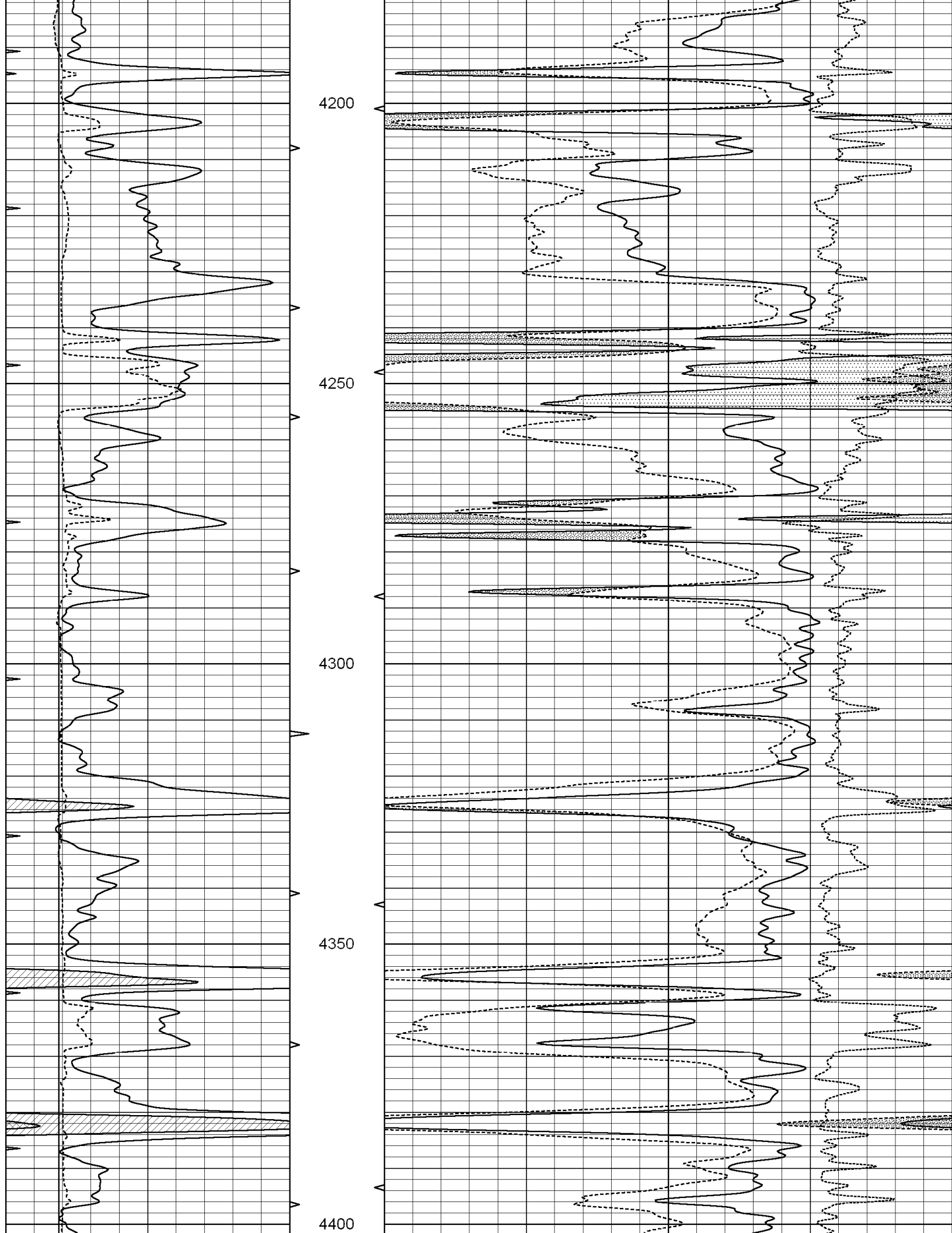
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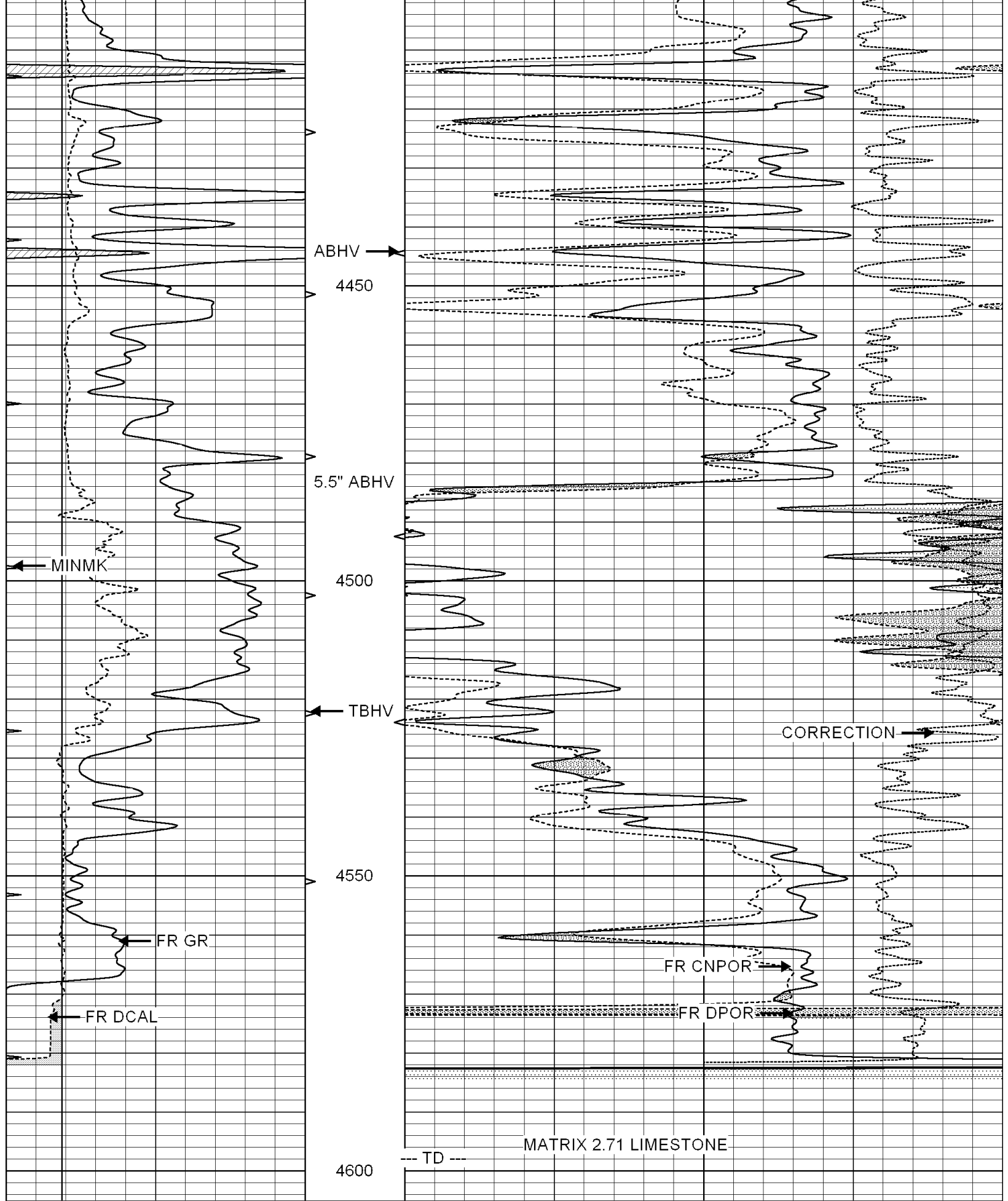
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3950









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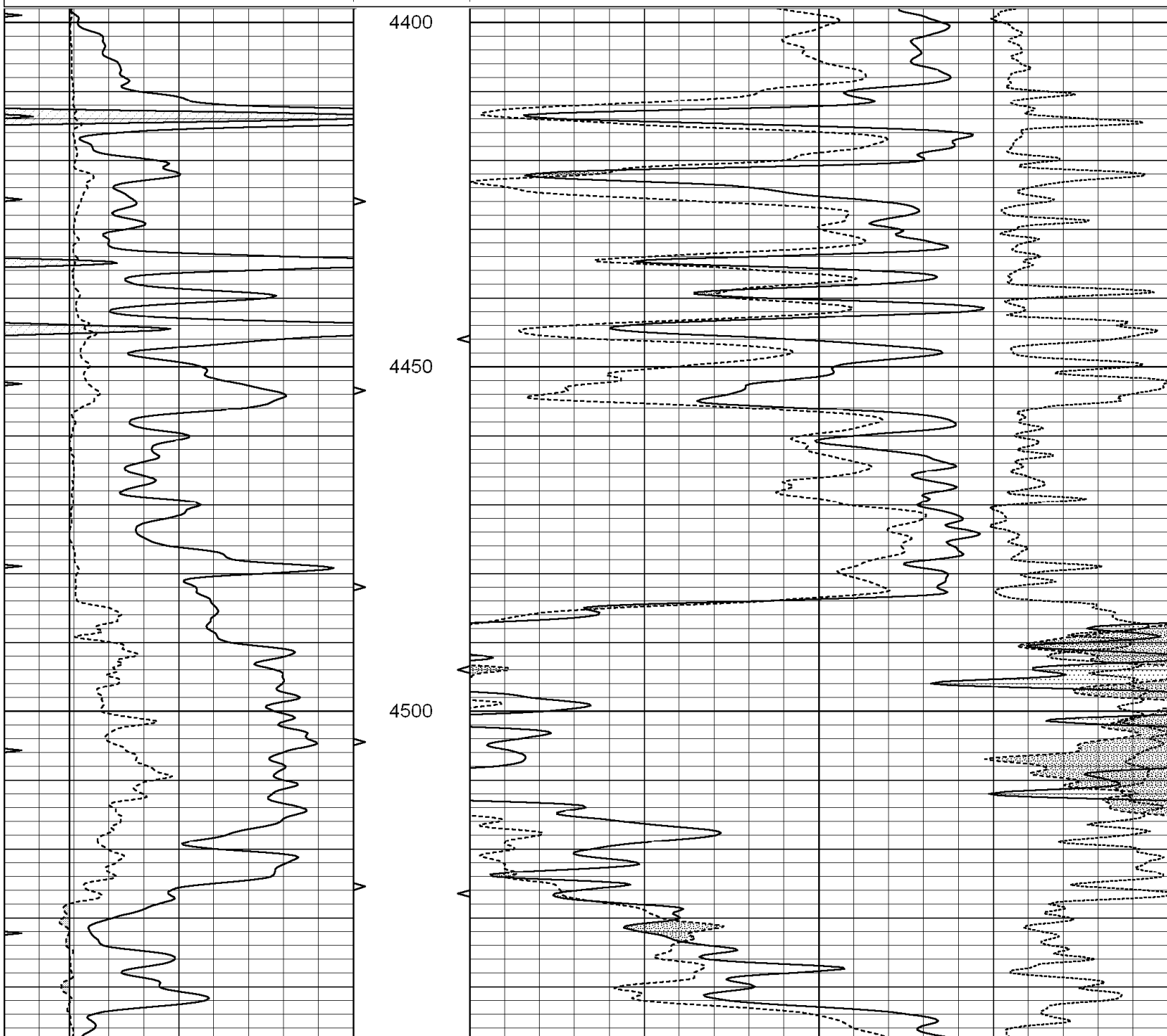


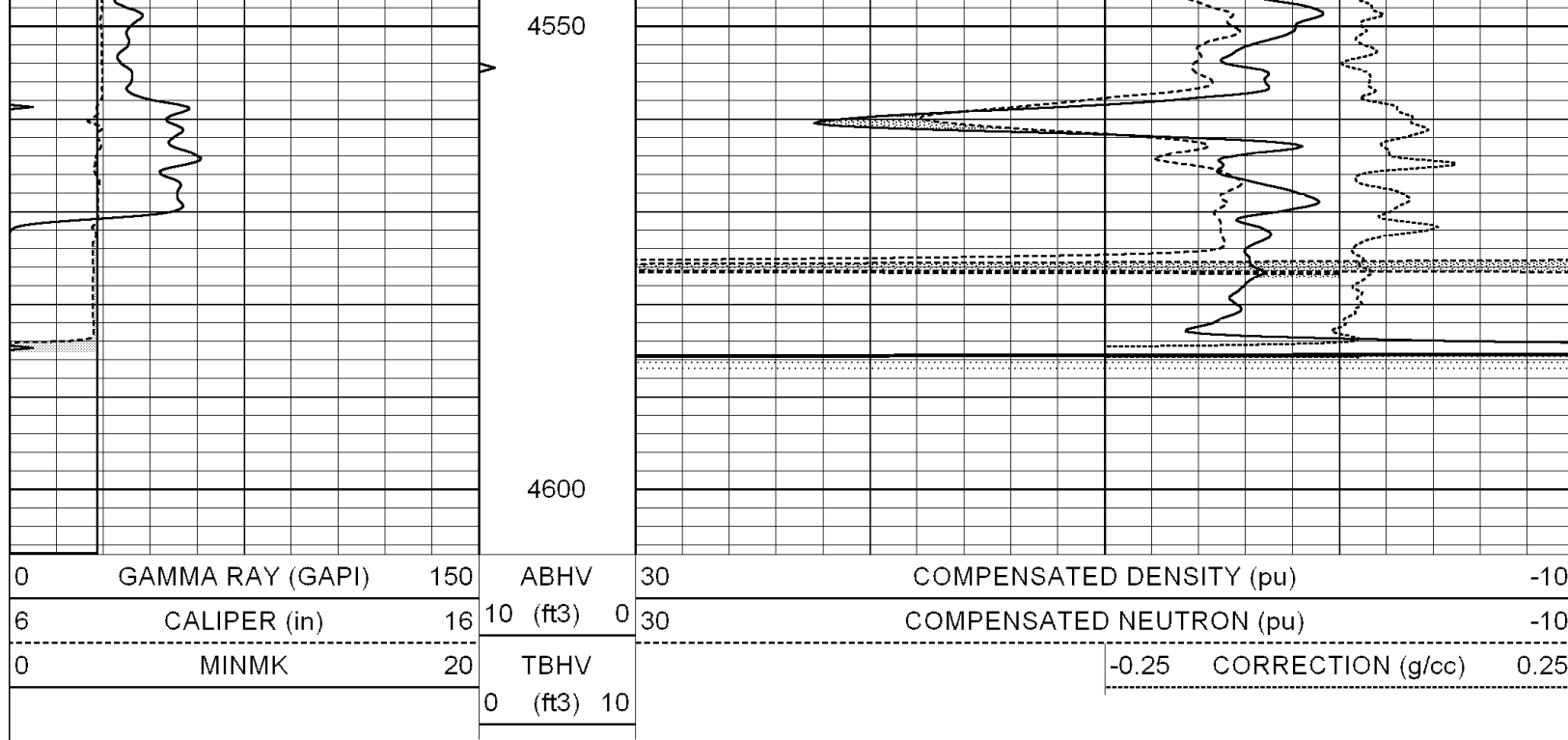
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REPEAT SECTION

Database File: 000715ddn.db
Dataset Pathname: pass2.A
Presentation Format: den_neu
Dataset Creation: Sat Aug 08 04:34:54 2009
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: 000715ddn.db
 Dataset Pathname: pass3
 Dataset Creation: Sat Aug 08 02:53:11 2009 by Log Open-Cased 051020

Dual Induction Calibration Report

Serial-Model: DIL5-GEAR
 Performed: Sat Aug 08 03:41:37 2009

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.004	0.654	V	0.000	400.000	mmho-m	510.000	-6.000
Medium	-0.005	0.737	V	0.000	462.500	mmho-m	490.000	-8.000
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: Sat Aug 08 03:10:51 2009

Master Calibration

	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		1006.91	528.07	cps
Aluminum	2.610	g/cc		233.49	355.80	cps
Spine Angle = 74.88				Density/Spine Ratio = 0.594		
	Size			Reading		
Small Ring	8.20	in		3.68	V	
Large Ring	14.00	in		6.06	V	

Compensated Neutron Calibration Report						
Serial Number:			NEU_1I			
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:		Fri Jul 31 06:50:30 2009				
Calibrator Value:		1.0	GAPI			
Background Reading:		0.0	cps			
Calibrator Reading:		1.0	cps			
Sensitivity:		0.5300	GAPI/cps			