



**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
LOG**

Company	MID-CONTINENT ENERGY CO.		
Well	WILLIAMS #1-29		
Field	WILDCAT		
County	LANE	State	KANSAS
Location:	API # : 15-101-22483		Other Services DIL MICRO
1220' FNL & 1320' FEL			
SEC 29	TWP 19S	RGE 27W	Elevation
Permanent Datum	GROUND LEVEL	Elevation	K.B. 2728
Log Measured From	KELLY BUSHING 10' A.G.L.		D.F.
Drilling Measured From	KELLY BUSHING		G.L. 2718
Date	1-4-14		
Run Number	ONE		
Depth Driller	4740		
Depth Logger	4738		
Bottom Logged Interval	4714		
Top Log Interval	3600		
Casing Driller	308		
Casing Logger	308		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.5 / 50		
pH / Fluid Loss	10.0 / 6.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.80 @ 70F		
Rmf @ Meas. Temp	0.60 @ 70F		
Rmc @ Meas. Temp	0.96 @ 70F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	.460 @ 122F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	10:15 A.M.		
Maximum Recorded Temperature	122F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	TOM PRONOLD		

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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

NABORE COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: DIGHTON, 6E TO TURKEY RED RD., 6S TO 80TH RD., 1/2W, S INTO.

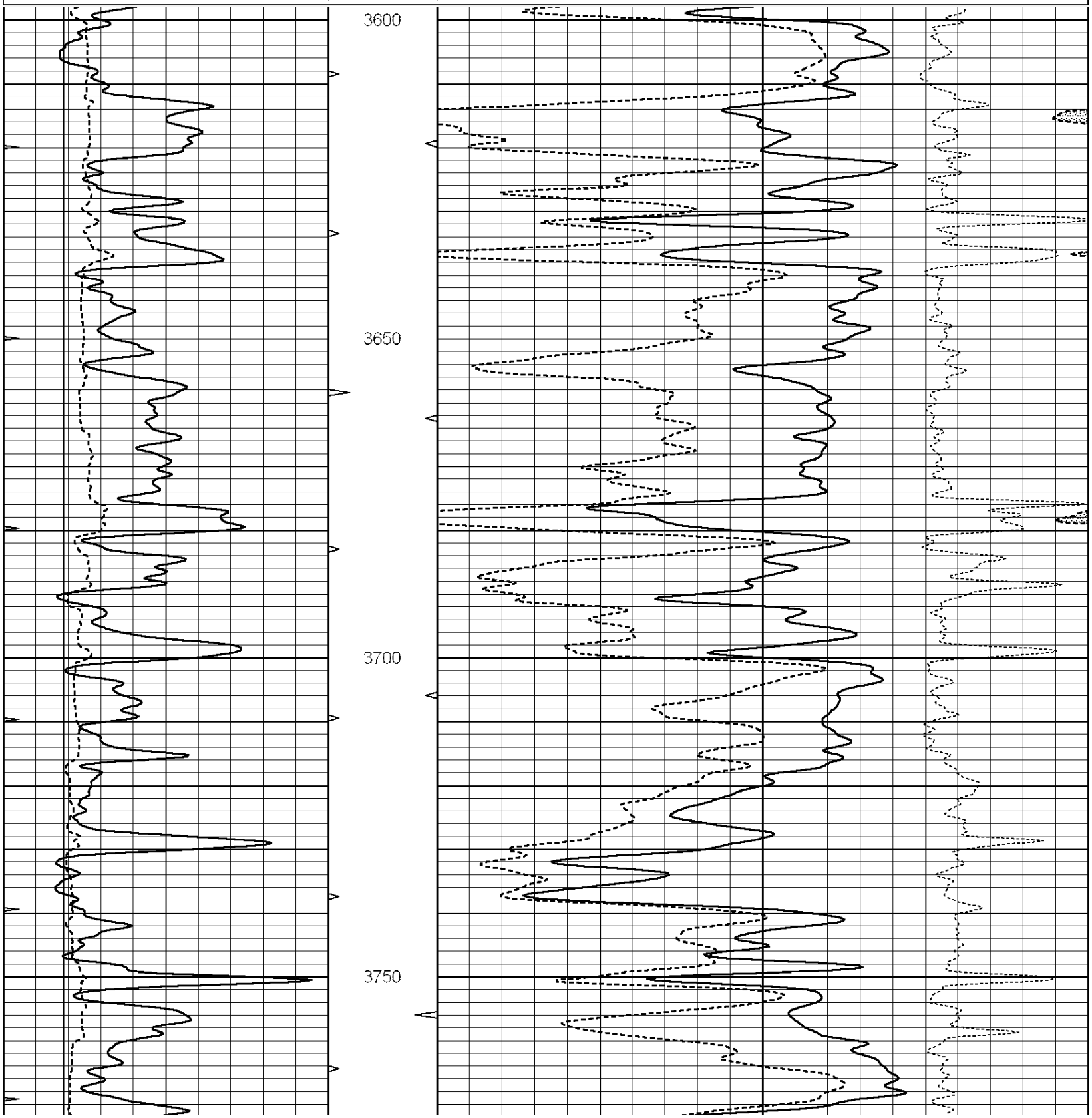


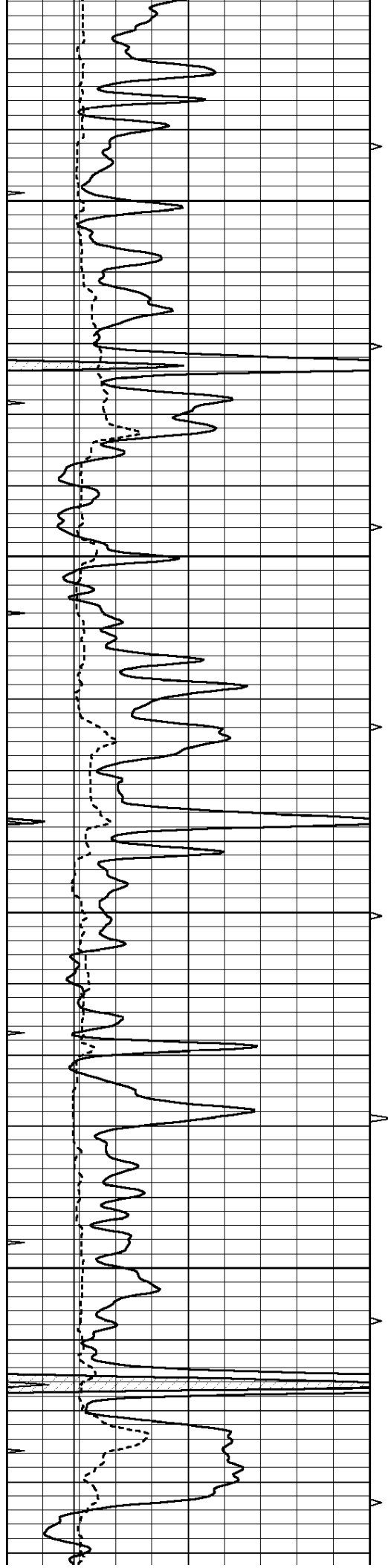
**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File: 22209ddn.db
 Dataset Pathname: pass3.A
 Presentation Format: _den_neu
 Dataset Creation: Sat Jan 04 13:05:45 2014
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	MELCAL (in)	16	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			



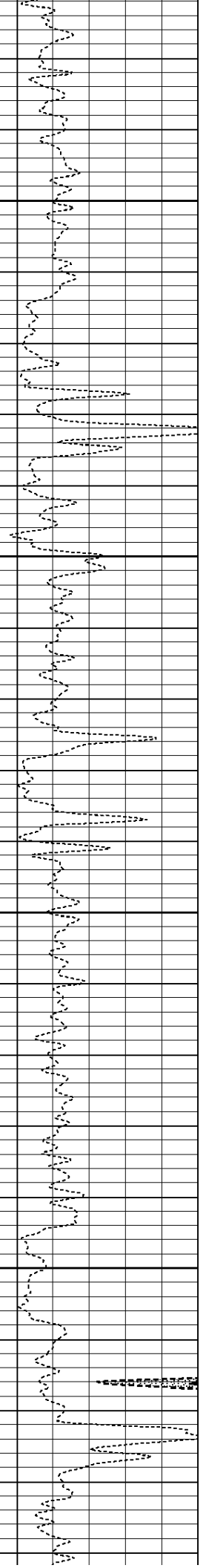
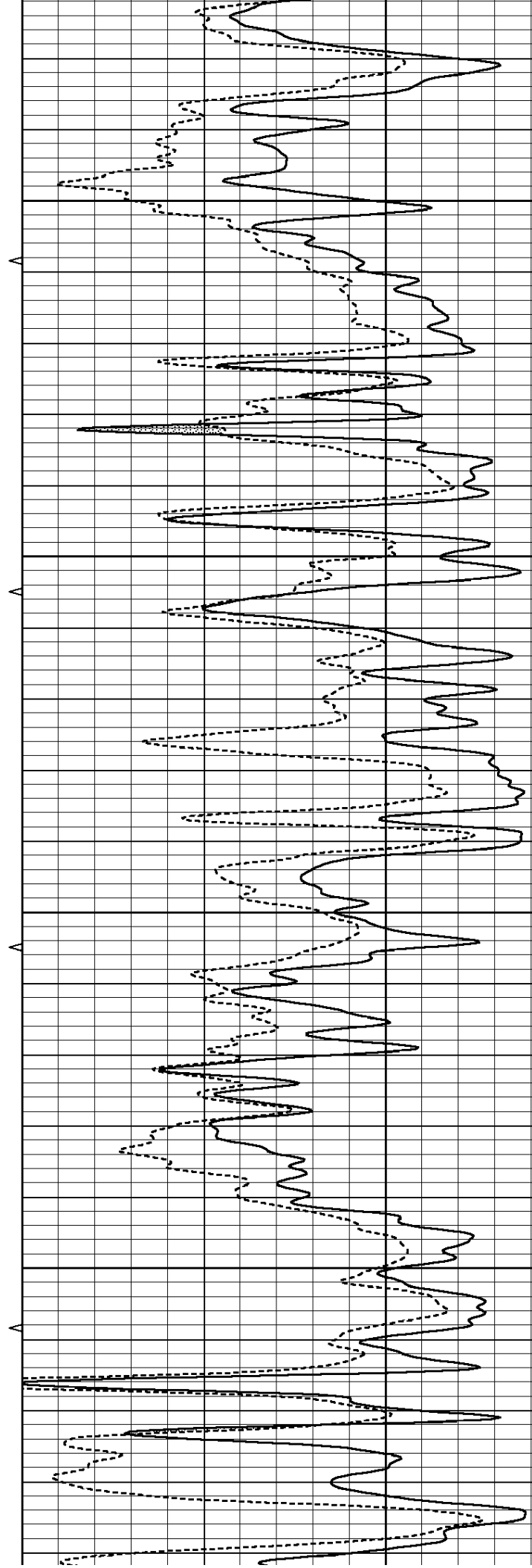


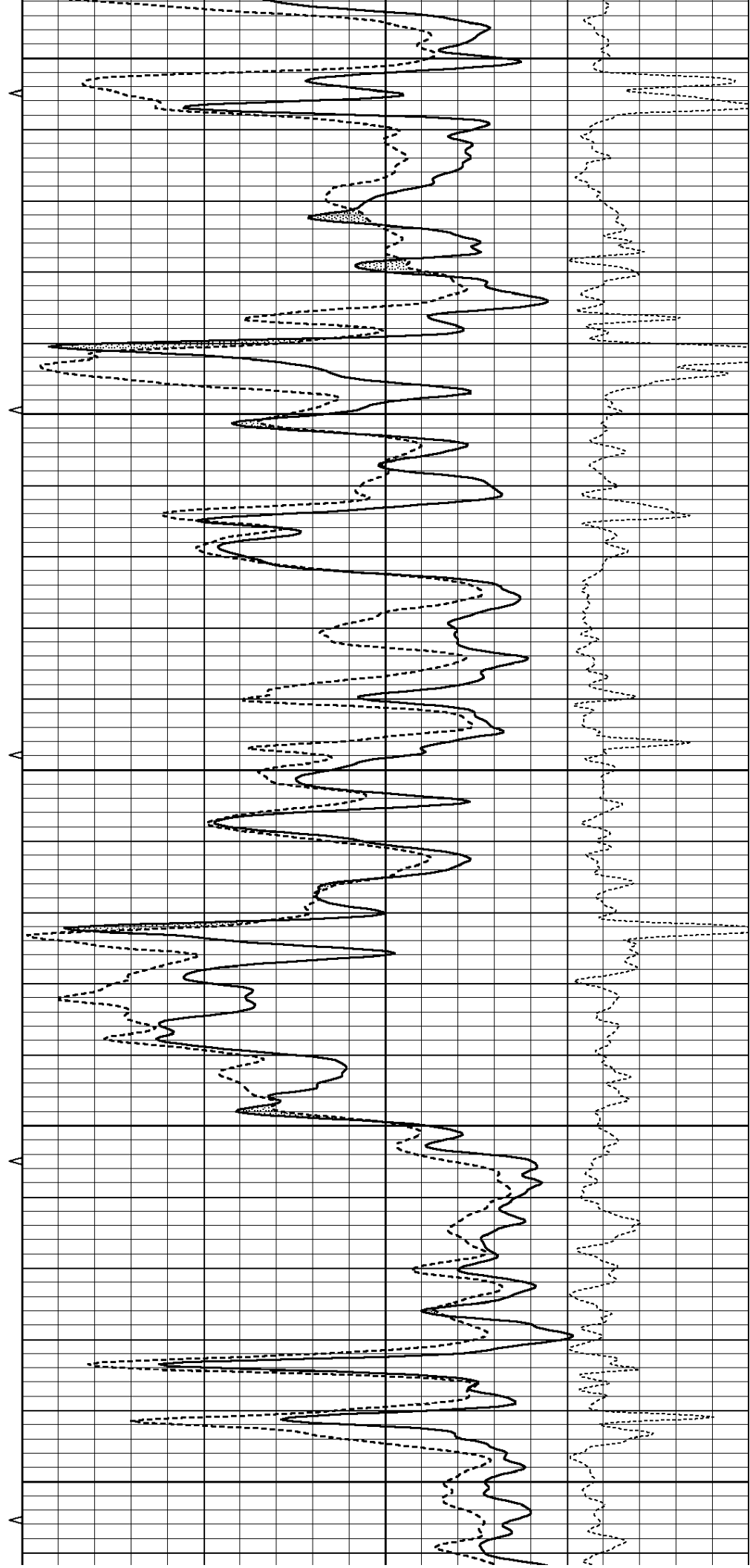
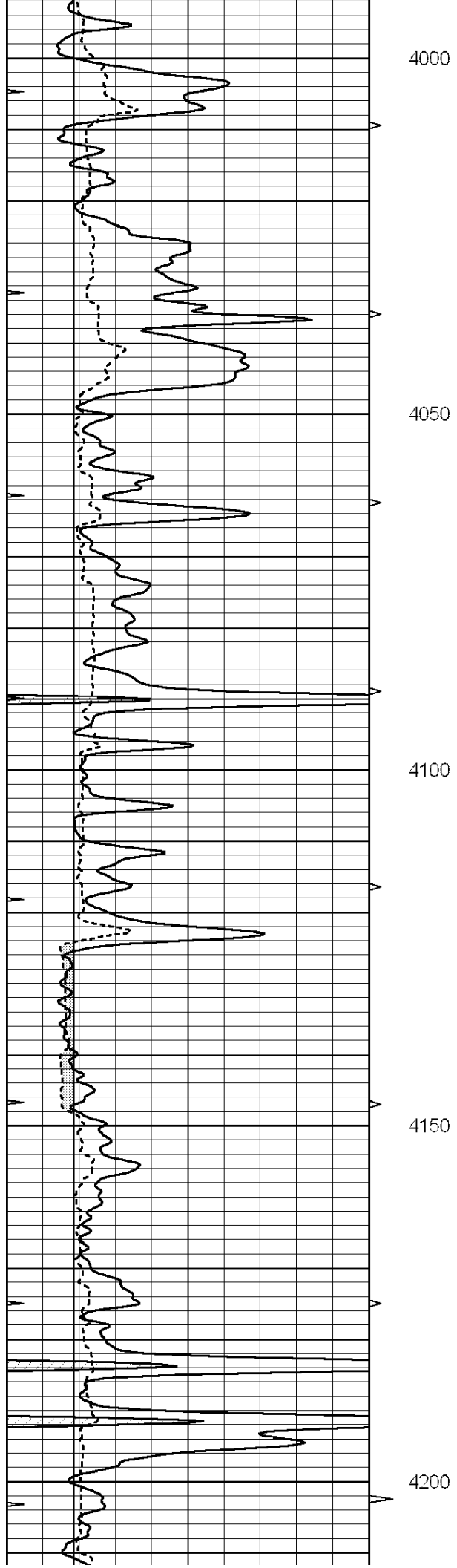
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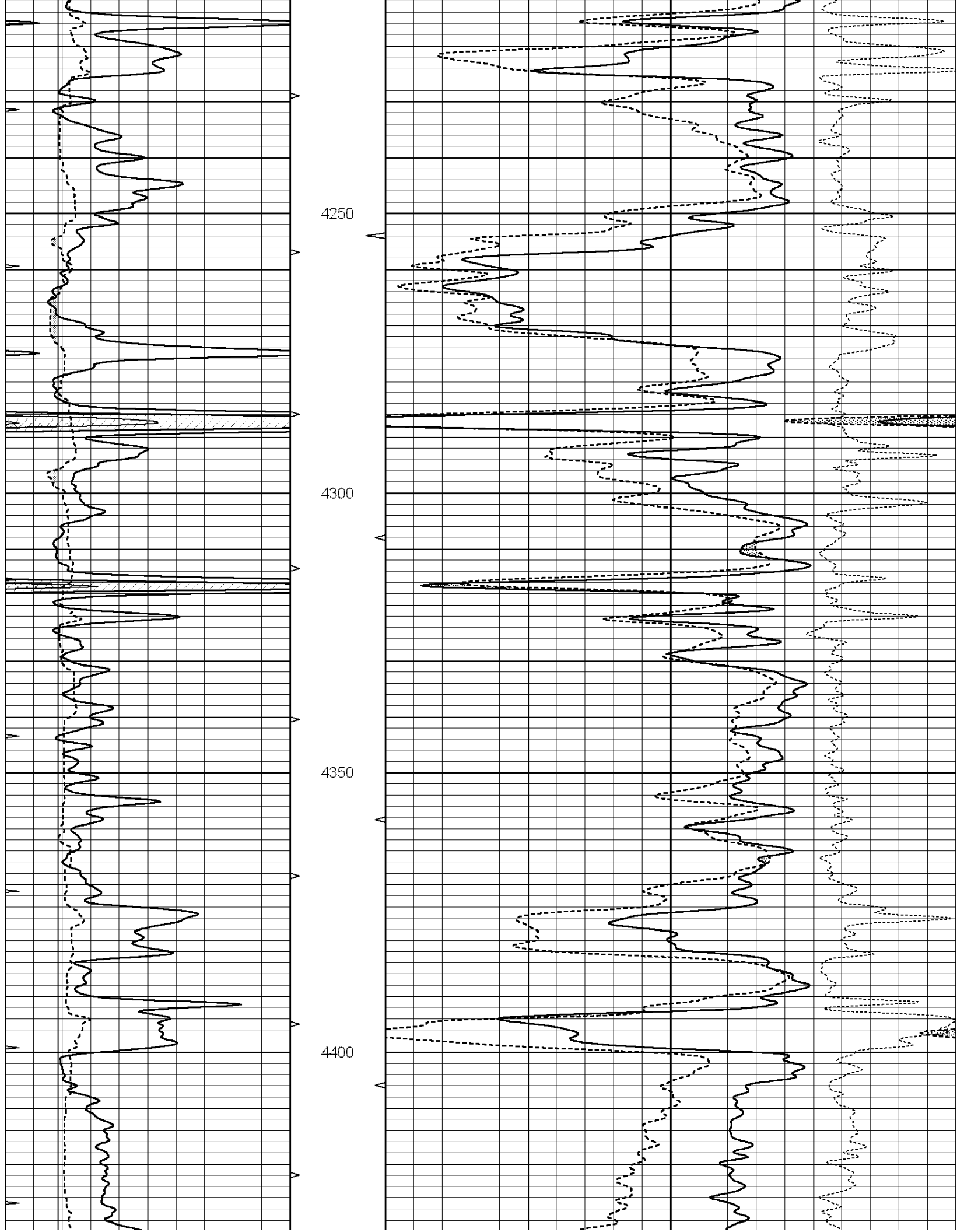
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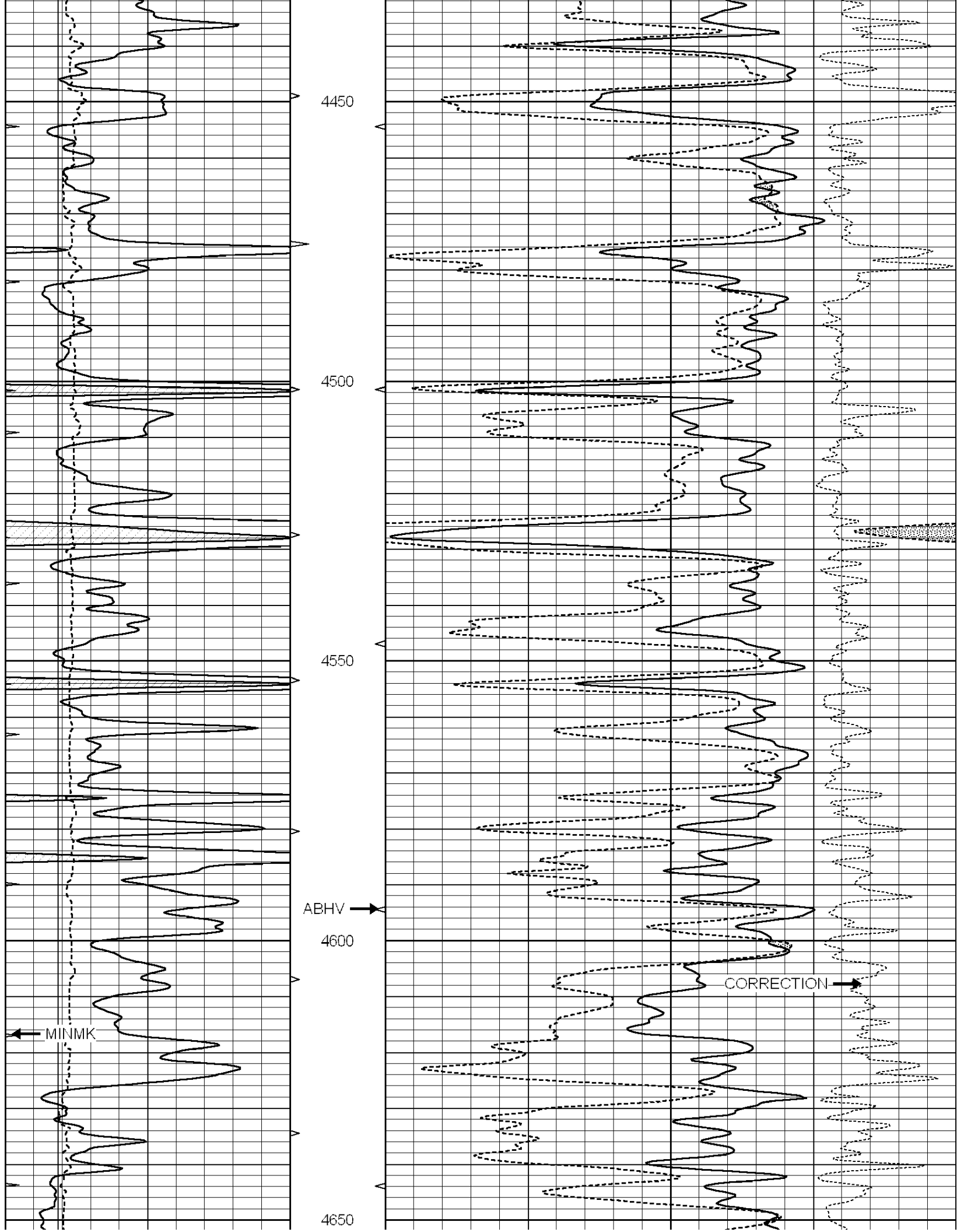
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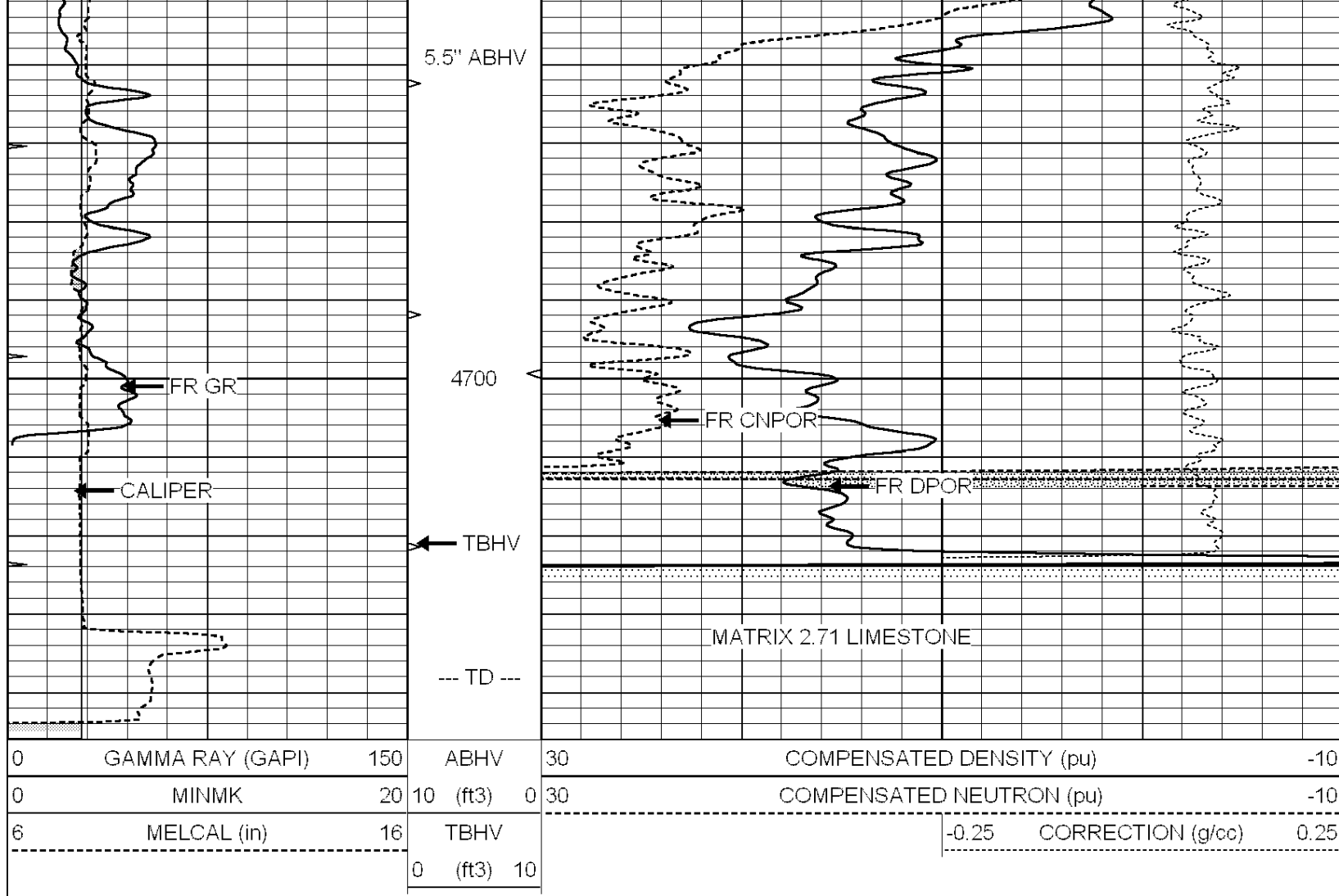
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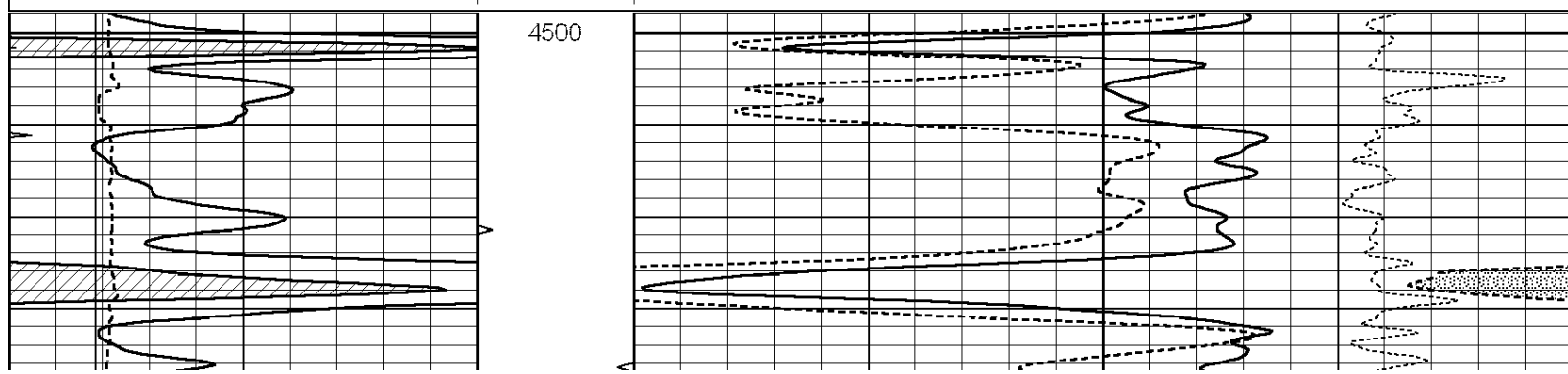


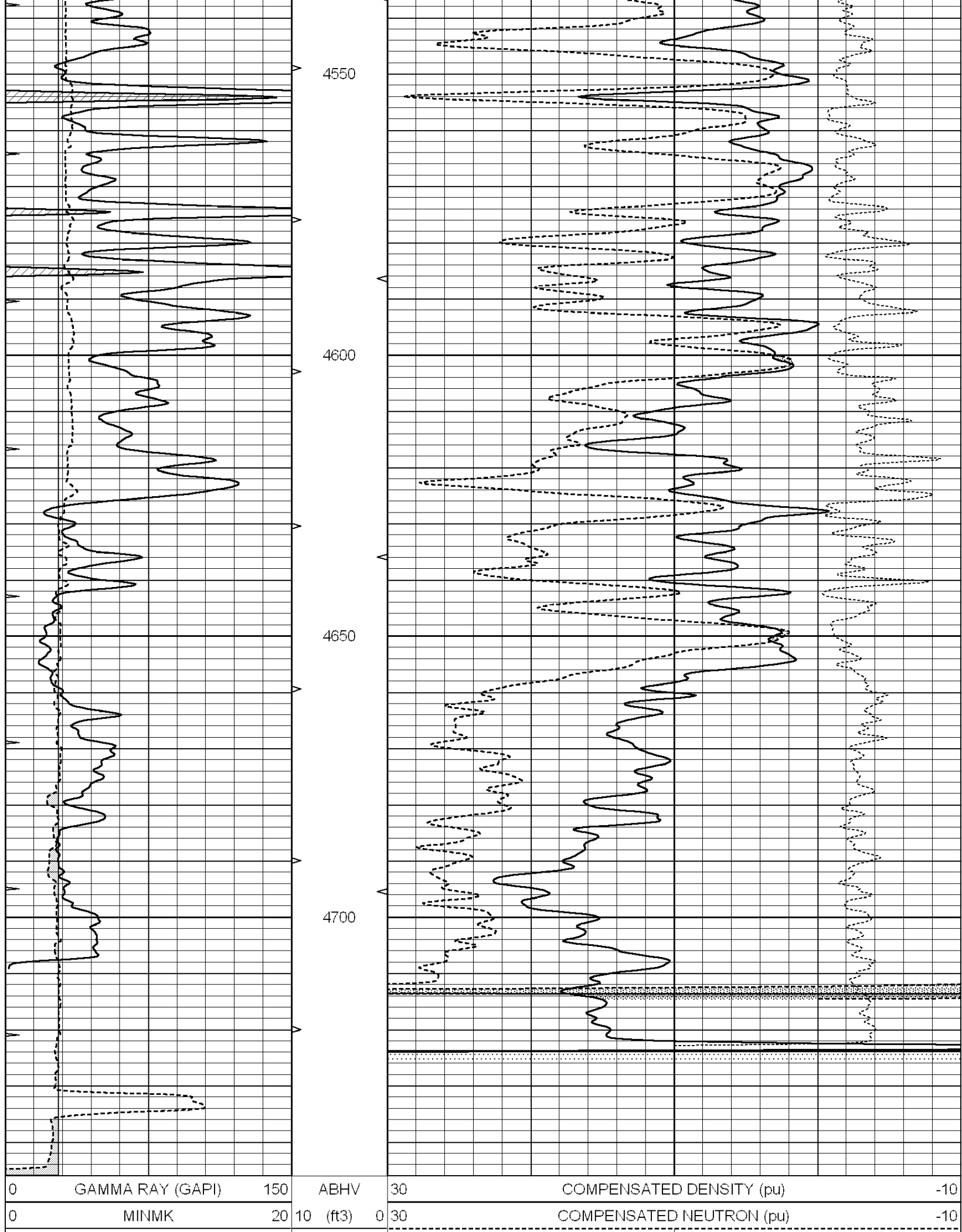


REPEAT SECTION

Database File: 22209ddn.db
 Dataset Pathname: pass2.A
 Presentation Format: _den_neu
 Dataset Creation: Sat Jan 04 13:11:55 2014
 Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	MELCAL (in)	16	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			





6	MELCAL (in)	16	TBHV	-0.25	CORRECTION (g/cc)	0.25
		0	(ft3) 10			

Calibration Report						
Database File:	22209ddn.db					
Dataset Pathname:	pass3.A					
Dataset Creation:	Sat Jan 04 13:05:45 2014					

Dual Induction Calibration Report						
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Serial-Model:	DIL3-GEAR					
Performed:	Sat Jan 04 10:54:27 2014					

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	500.000	2.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	580.000	3.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.002	0.645	V	0.000	400.000	mmho/m	560.000	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	540.000	-4.000

Compensated Density Calibration Report						
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Serial-Model:	GEAR1-GEARHART					
Source / Verifier:	147 / 147					
Master Calibration Performed:	Sat Jan 04 08:49:49 2014					

Master Calibration						
	Density			Far Detector	Near Detector	
Magnesium	1.710	g/cc		1205.77	610.74	cps
Aluminum	2.580	g/cc		271.21	419.72	cps
Spine Angle = 75.89			Density/Spine Ratio = 0.566			
	Size			Reading		
Small Ring	8.20	in		4.83	V	
Large Ring	14.00	in		7.01	V	

Compensated Neutron Calibration Report						
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Serial Number:	080620					
Tool Model:	Probe					

PRE-SURVEY VERIFICATION						
Detector	Readings		Measured	Target		
Short Space		cps				
Long Space		cps	pu		pu	

POST-SURVEY VERIFICATION						
Detector	Readings		Measured	Target		
Short Space		cps				
Long Space		cps	pu		pu	

Gamma Ray Calibration Report						
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Serial Number:	7					
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Tool Model:	Probe1
Performed:	Sat Jan 04 10:53:32 2014

Calibrator Value:	1.0	GAPI
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Background Reading:	0.0	cps
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Calibrator Reading:	1.0	cps
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Sensitivity:	0.4600	GAPI/cps
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