



COMPENSATED DENSITY/NEUTRON LOG

Company DOWNING - NELSON OIL COMPANY, INC.

Well HFI #3-27

Field UNNAMED

County RAWLINS State KANSAS

Location: API #: 15-153-21330-0000

2031' FSL & 2288' FEL
SE - NW - NW - SE

SEC 27 TWP 4S RGE 36W

Permanent Datum GROUND LEVEL Elevation 3354
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL

Elevation

K.B. 3365
D.F. 3363
G.L. 3354

Date 7/1/24

Run Number ONE

Depth Driller 4803

Depth Logger 4800

Bottom Logged Interval 4776

Top Log Interval 3600

Casing Driller 8.625@475

Casing Logger 475

Bit Size 7.785

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.6/56

pH / Fluid Loss 10.0/8.8

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.50@96F

Rmf @ Meas. Temp 1.13@96F

Rmc @ Meas. Temp 1.80@96F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT 1.17@123F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 6:00 P.M.

Maximum Recorded Temperature 123F

Equipment Number 922339

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By MARC DOWNING

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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.

15-153-21330-0000

Comments

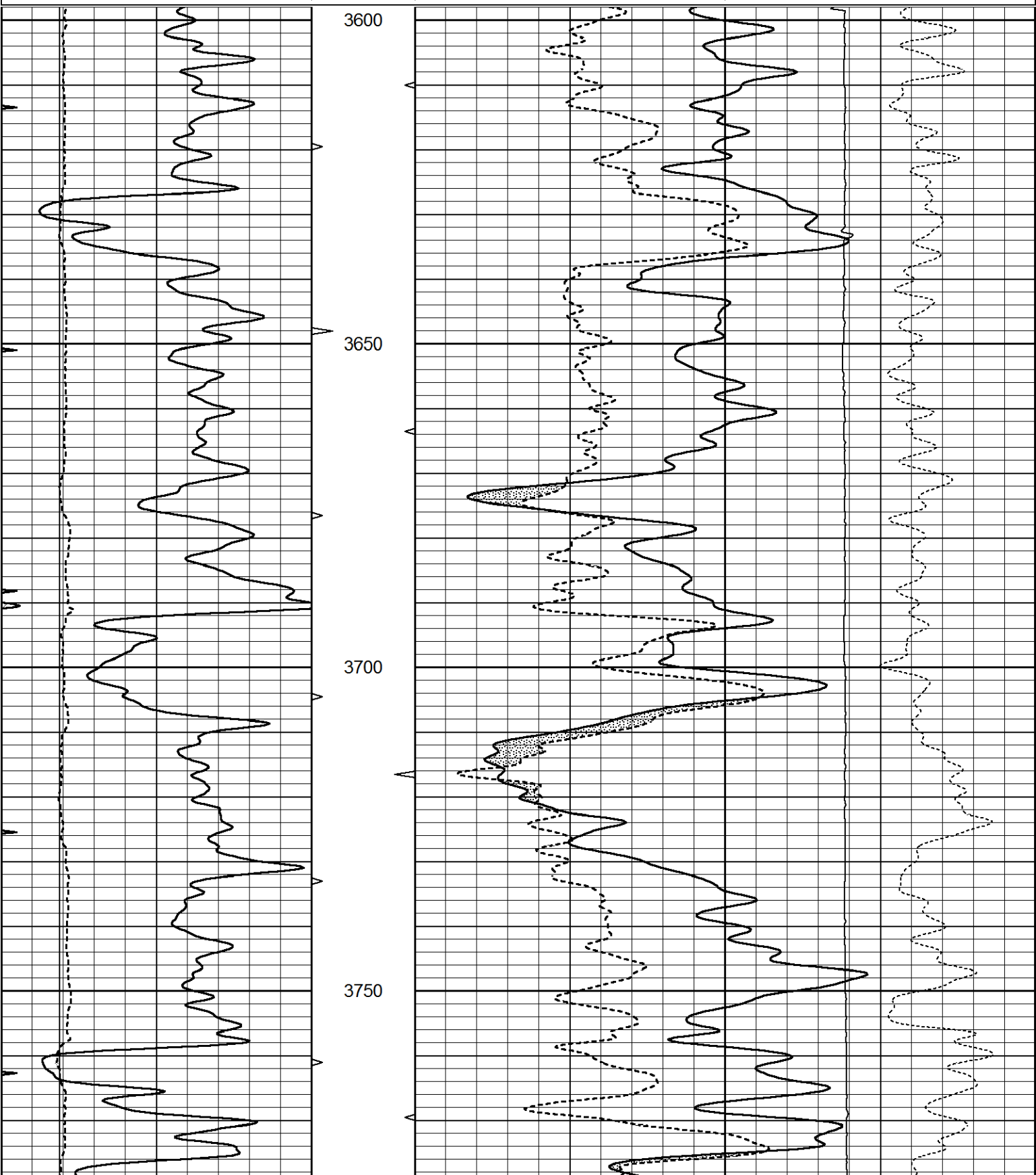
THANK YOU FOR USING ELI WIRELINE HAYS. KANSAS (785) 628-6395
DIRECTIONS
BREWSTER, KS., S. TO "RD. H", 1E. TO TANK BATTERY, 1/2N. ON LEASE RD. 1/2E., S. INTO

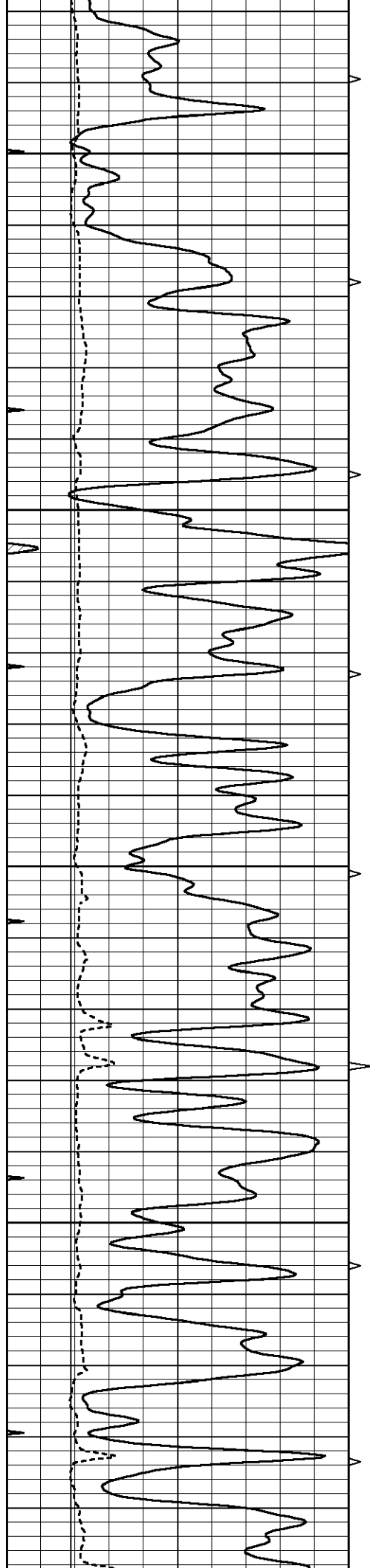


MAIN SECTION

Database File	8639ddn.db
Dataset Pathname	pass3.2M
Presentation Format	_den_neu
Dataset Creation	Mon Jul 01 20:57:38 2024
Charted by	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	DCAL (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10		0 LTEN (lb)	5000



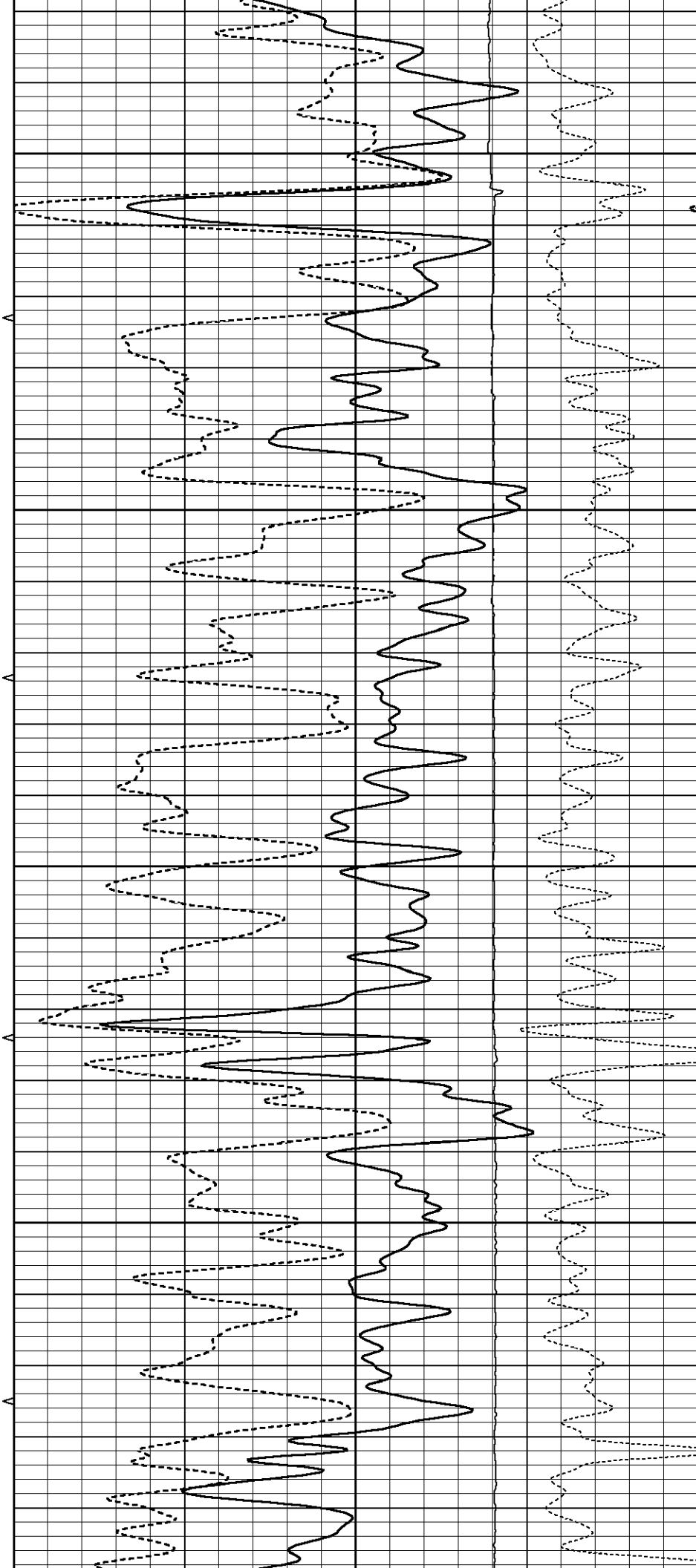


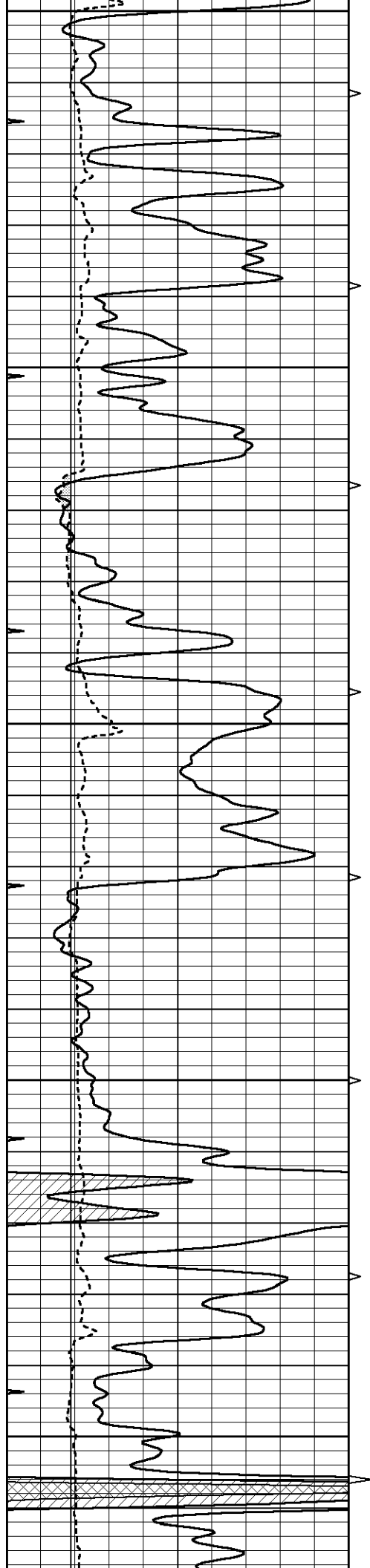
3800

3850

3900

3950





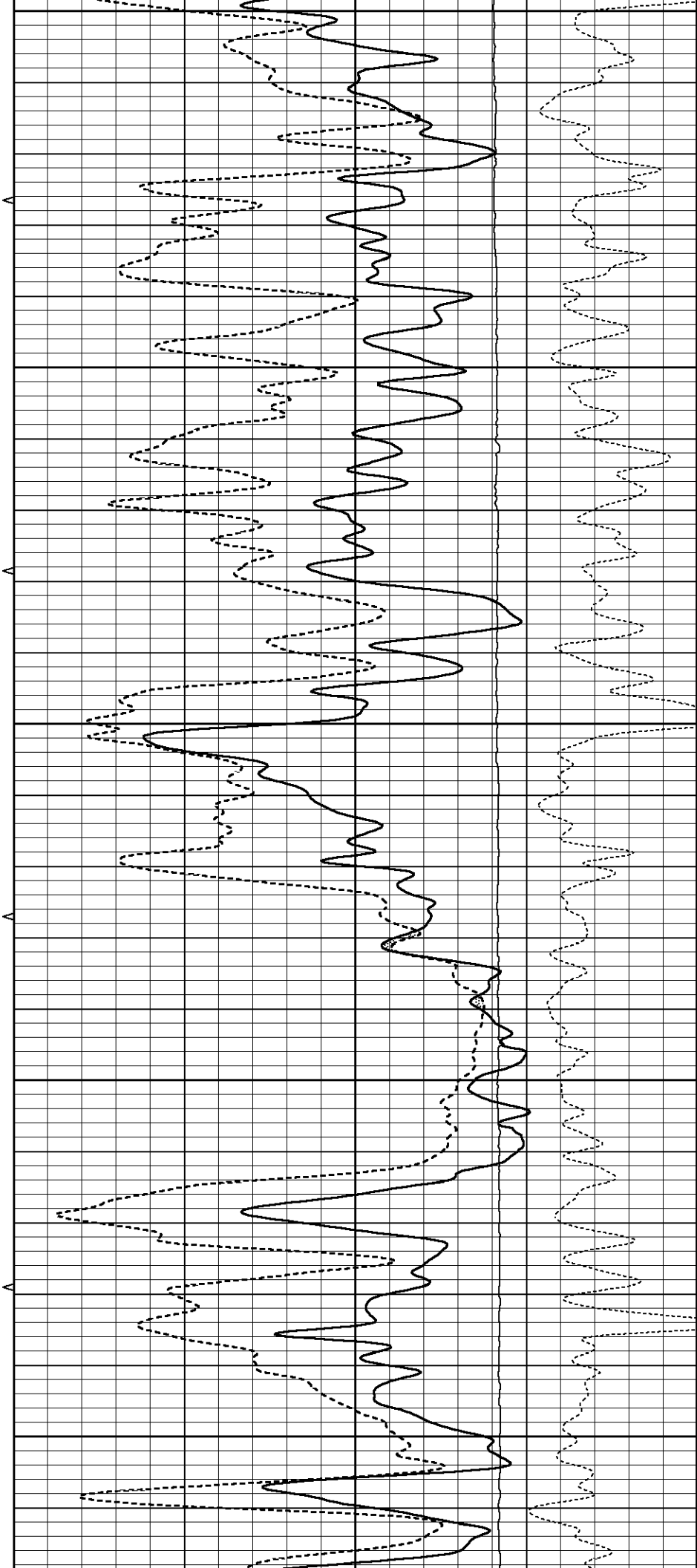
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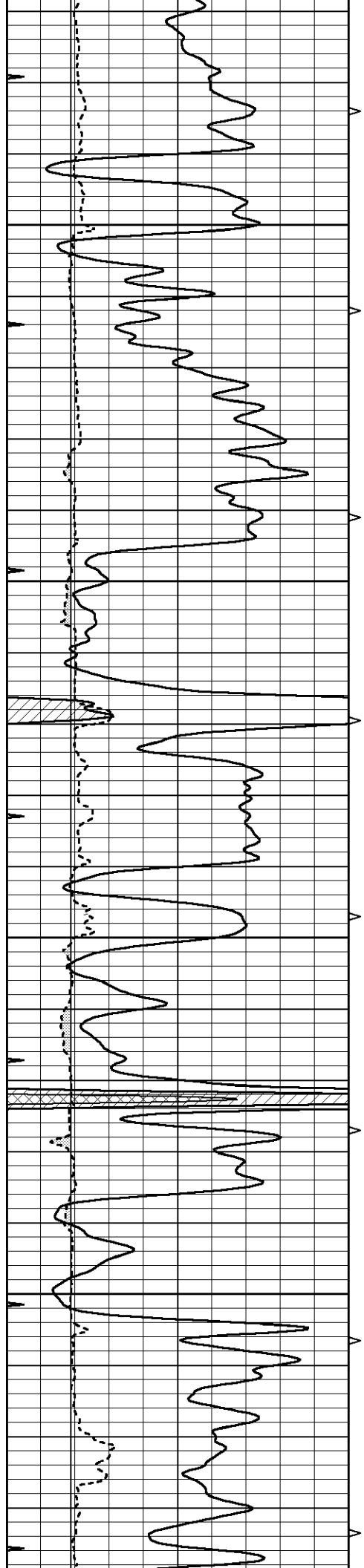
4050

4100

4150

4200



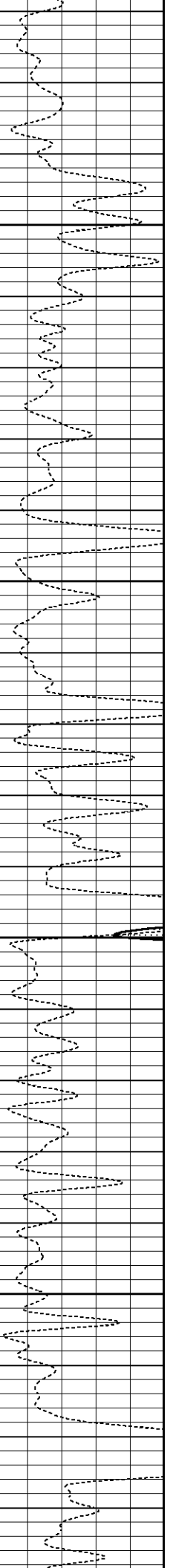
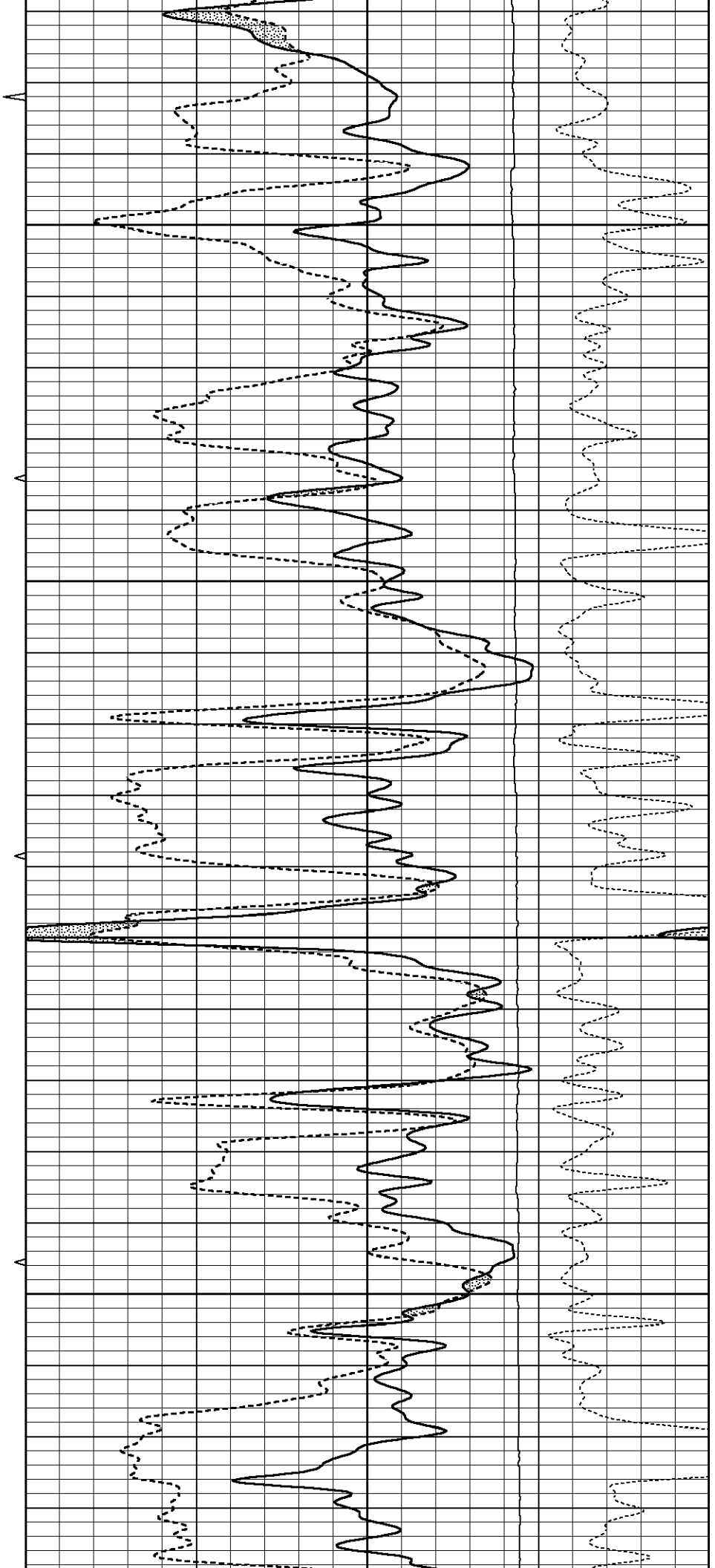


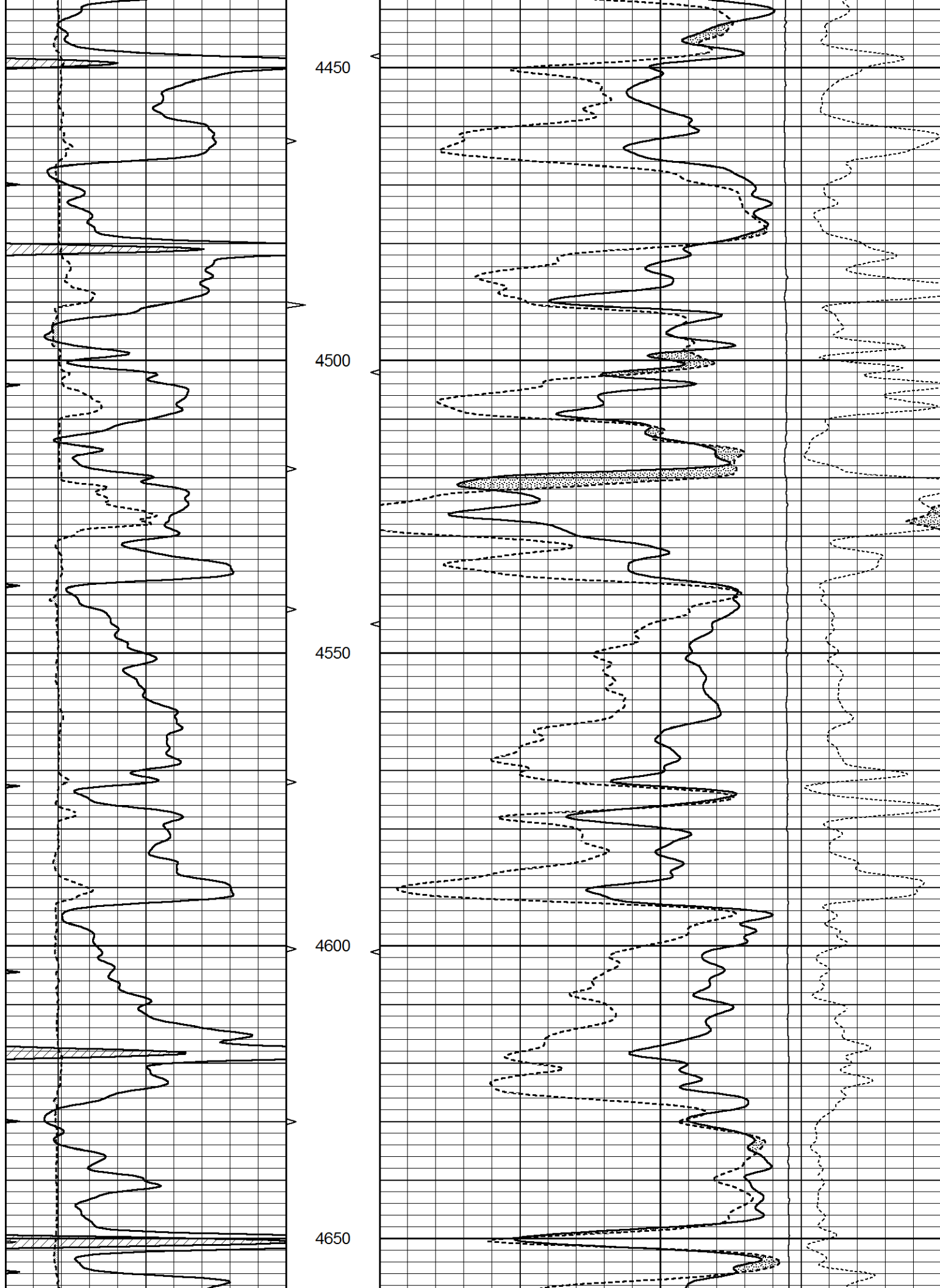
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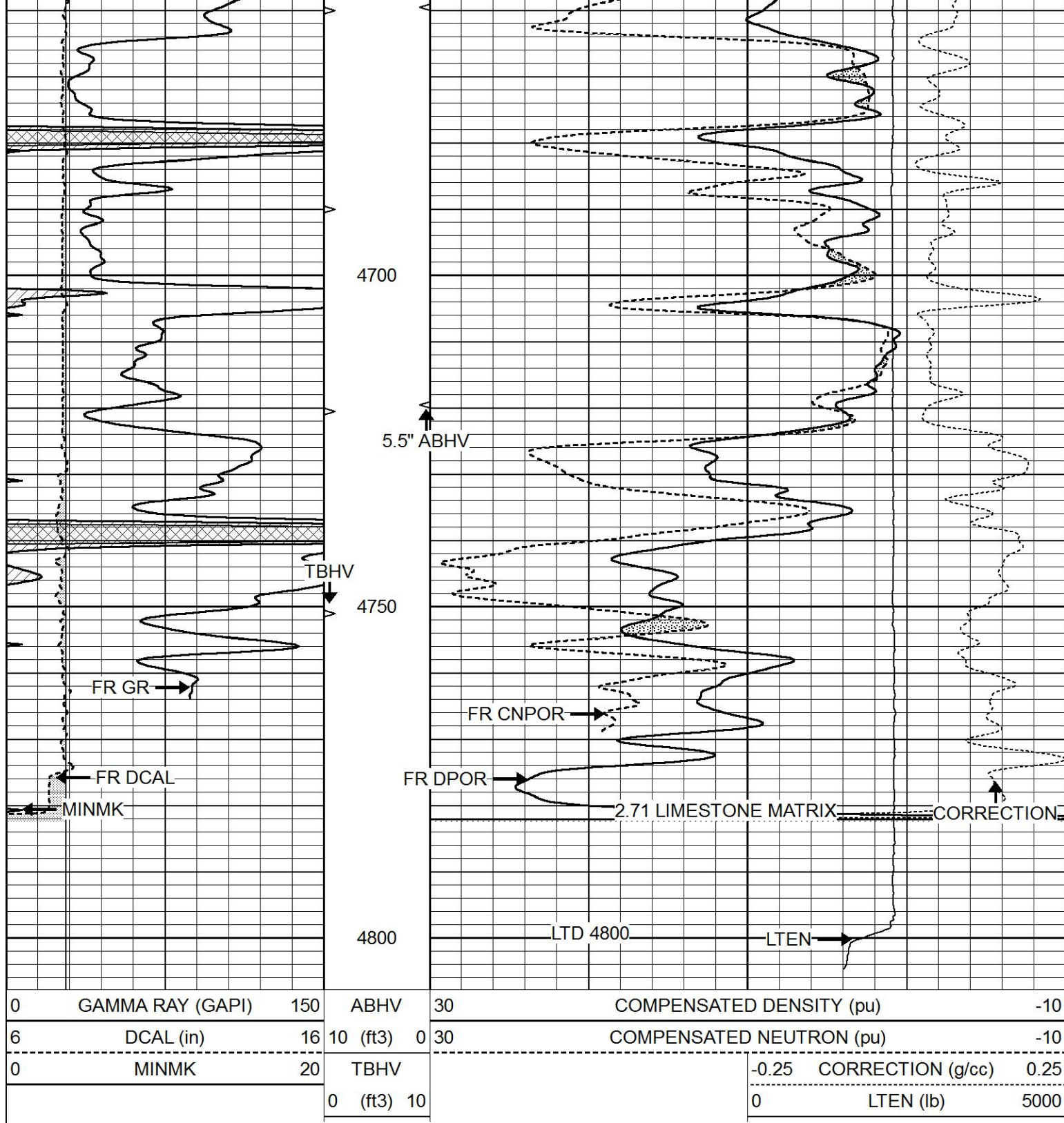
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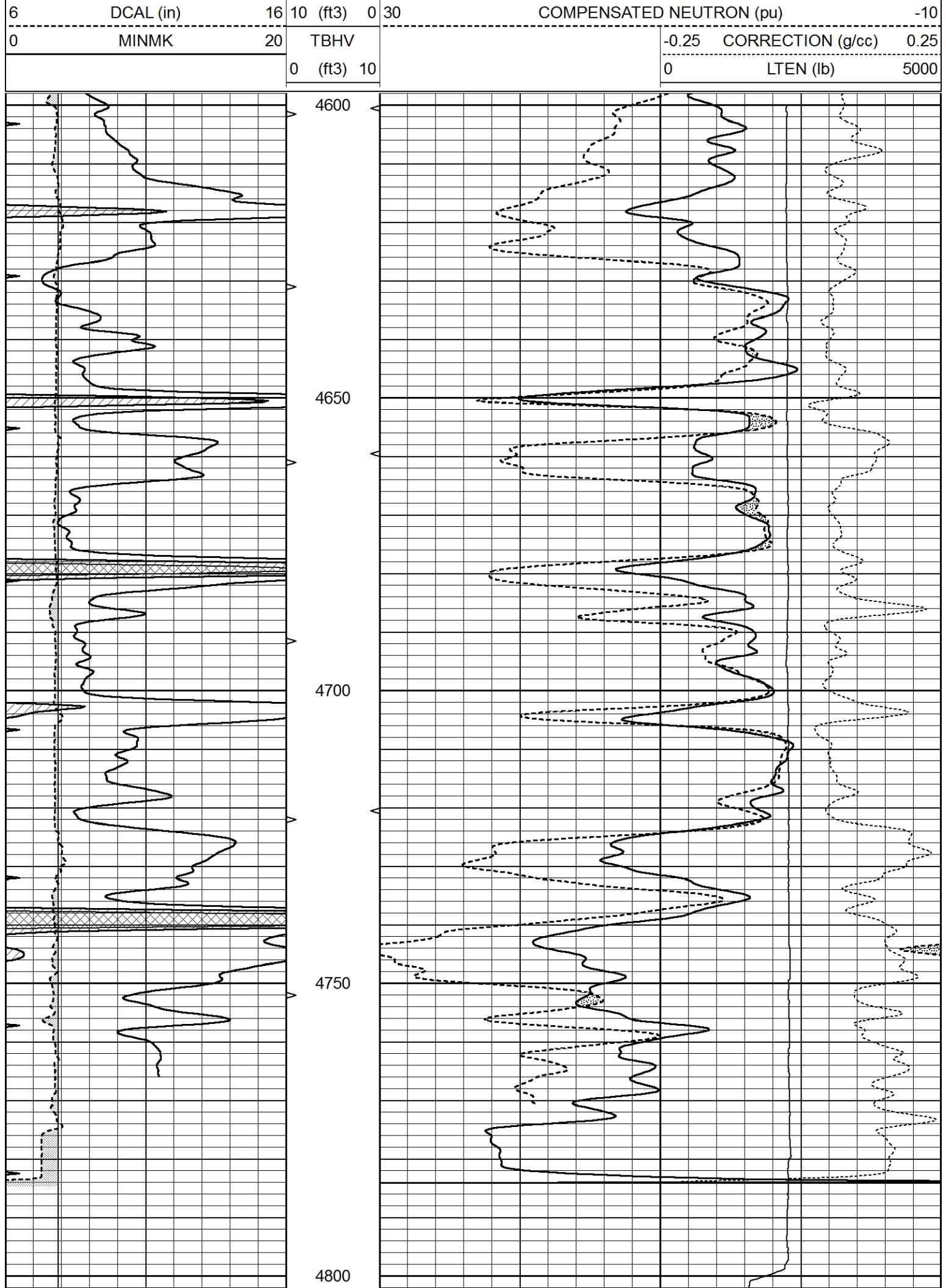




REPEAT SECTION

Database File 8639ddn.db
 Dataset Pathname pass2.1R
 Presentation Format _den_neu
 Dataset Creation Mon Jul 01 19:42:11 2024
 Charted by Depth in Feet scaled 1:240





0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	DCAL (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10		0 LTEN (lb)	5000

Calibration Report									
Database File	8639ddn.db								
Dataset Pathname	pass3.2M								
Dataset Creation	Mon Jul 01 20:57:38 2024								
Dual Induction Calibration Report									
Serial-Model:				PROBE8-DILG					
Surface Cal Performed:				Thu Jun 27 23:38:56 2024					
Downhole Cal Performed:				Mon Aug 14 00:39:25 2023					
After Survey Verification Performed:				Mon Jul 28 11:08:27 2008					
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	0.015	0.648	V	0.000	400.000	mmho/m	660.000	12.000	
Medium	0.029	0.796	V	0.000	464.000	mmho/m	650.000	2.000	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619	
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739	
Downhole Calibration									
Readings				References			Results		
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000	
LL3		7.500	V		1500.000	Ohm-m			
		0.000	V		20.000	Ohm-m			
		-7.200	V		3800.000	mmho-m			
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: 004				Model: PRB					
Master Calibration					Performed Tue Aug 02 11:29:35 2022				
	Background	Magnesium	Aluminum	Aluminum+Fe					
Window 1	1154.2	10019.5	3137.9	2795.6				cps	
Window 2	1054.4	8597.6	2733.4	2469.5				cps	
Window 3	902.3	5241.4	1832.1	1719.3				cps	
Window 4	251.9	261.1	255.8	252.9				cps	

Long Space	0.0	7543.2	1679.0	1415.0	cps
Short Space	4.4	2049.3	1321.7	1116.8	cps
Rho		1.7100	2.5900	0.0000	g/cc
Pe		2.0000	2.7500	5.7900	
Rib Angle	: 43.7	Rib Slope	: 0.957	Density/Spine Ratio	: 0.562
Spine Angle	: 73.7	Spine Slope	: 3.426	Spine Intercept	: -17.2

Before Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

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Compensated Neutron Calibration Report

Serial Number:	070808PMC
Tool Model:	NABORS

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

Serial Number:	070558	
Tool Model:	OPEN_GR	
Performed:	Thu Jun 13 23:56:25 2024	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps

Sensitivity:

0.3000

GAPI/cps