



COMPENSATED DENSITY / NEUTRON LOG

Company RAYMOND OIL COMPANY, INC.

Well #2 LEWIS - FRUSHER UNIT

Field WILDCAT

County HODGEMAN State KANSAS

Location: API #: 15-083-21981-0000
1738' FSL & 2496' FEL
NW - SW - NW - SE

Other Services
DILMEL

SEC 4 TWP 21S RGE 23W

Permanent Datum GROUND LEVEL Elevation 2293
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2298
D.F. 2296
G.L. 2293

Date 10/30/21

Run Number ONE

Depth Driller 4600

Depth Logger 4596

Bottom Logged Interval 4572

Top Log Interval 3400

Casing Driller 8 5/8" @ 260'

Casing Logger 260

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD CHLORIDES 5,600 PPM

Density / Viscosity 9.1/50

pH / Fluid Loss 8.5/9.6

Source of Sample FLOWLINE

Rm @ Meas. Temp .600 @ 71F

Rmf @ Meas. Temp .450 @ 71F

Rmc @ Meas. Temp .720 @ 71F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .352 @ 121F

Time Circulation Stopped 3 HOURS

Time Logger on Bottom 10:00 A.M.

Maximum Recorded Temperature 121F

Equipment Number 922339

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

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.

15-083-21981-0000

Comments

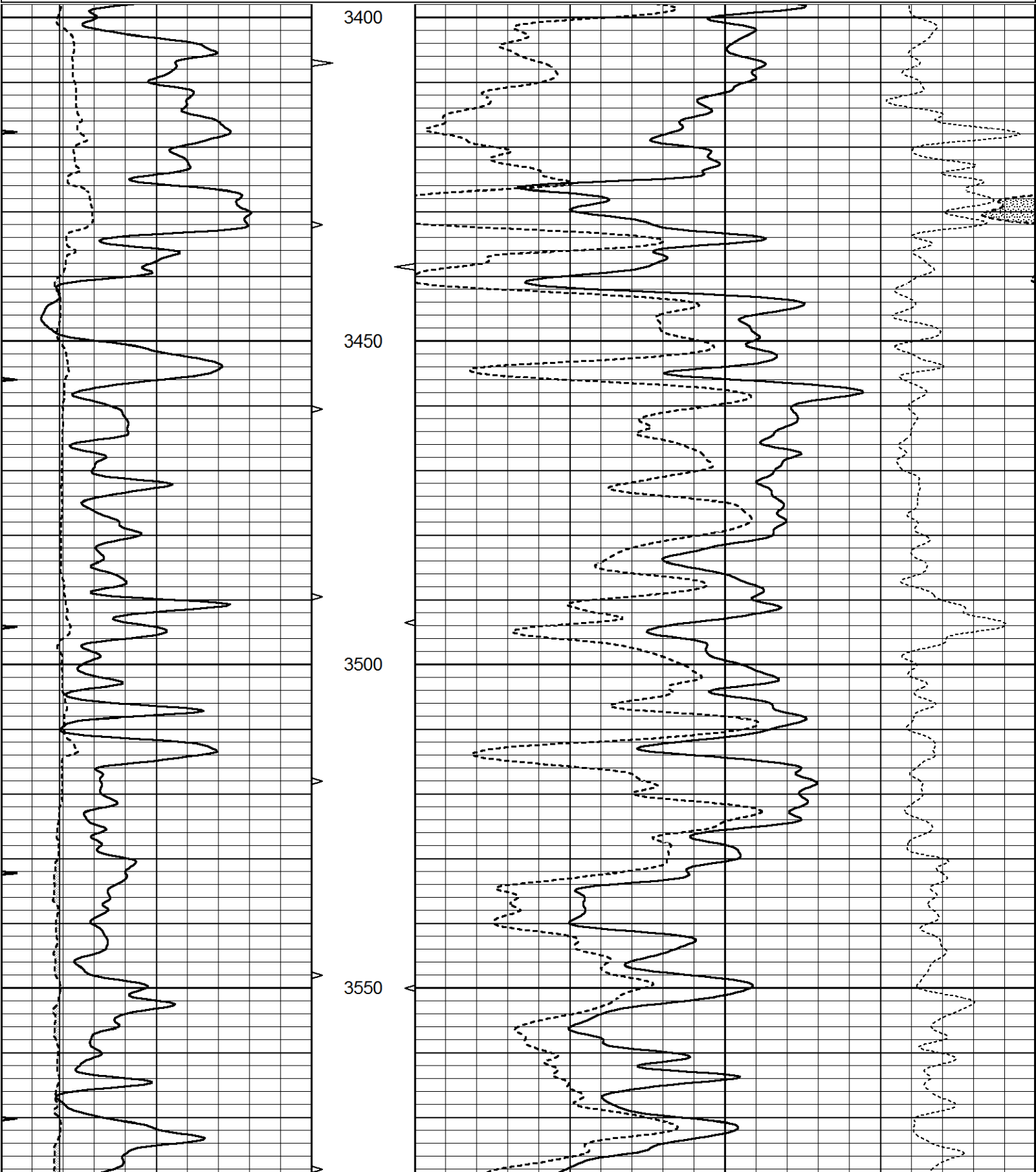
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
NESS CITY, KS., S. ON HWY 283 TO (HODGEMAN CR X), 2 1/2E., N. INTO

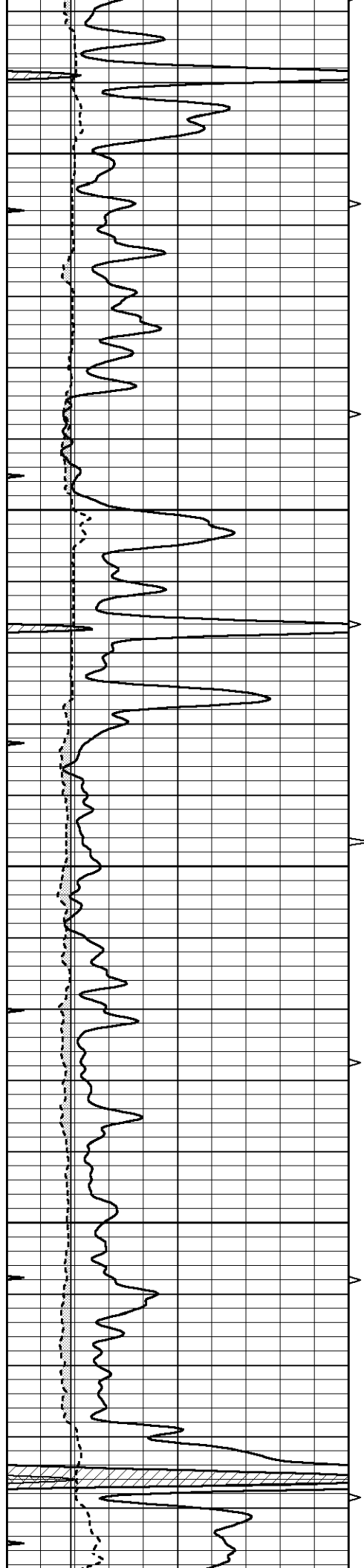


MAIN SECTION

Database File	5828ddn.db
Dataset Pathname	pass3.1M
Presentation Format	den_neu
Dataset Creation	Sat Oct 30 11:29:51 2021
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					



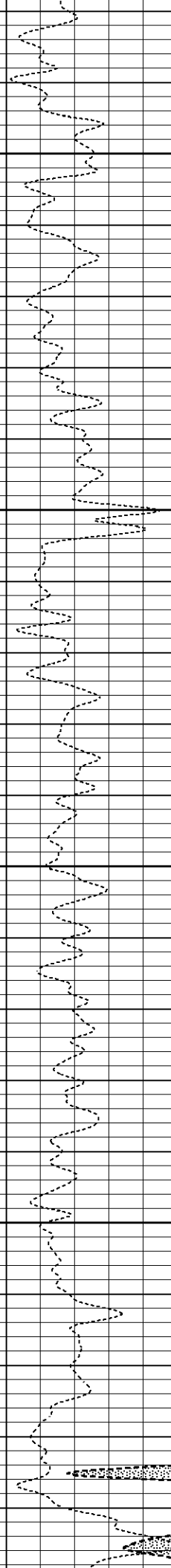
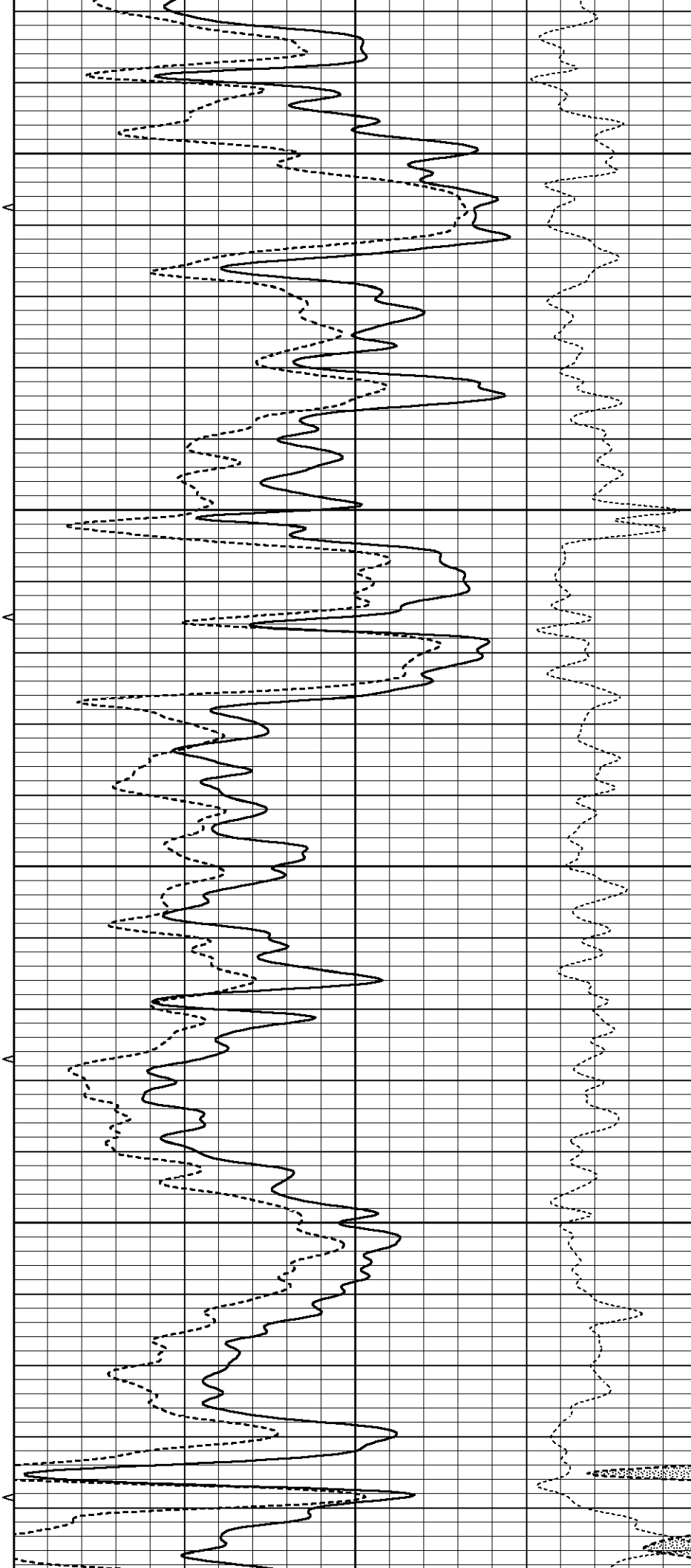


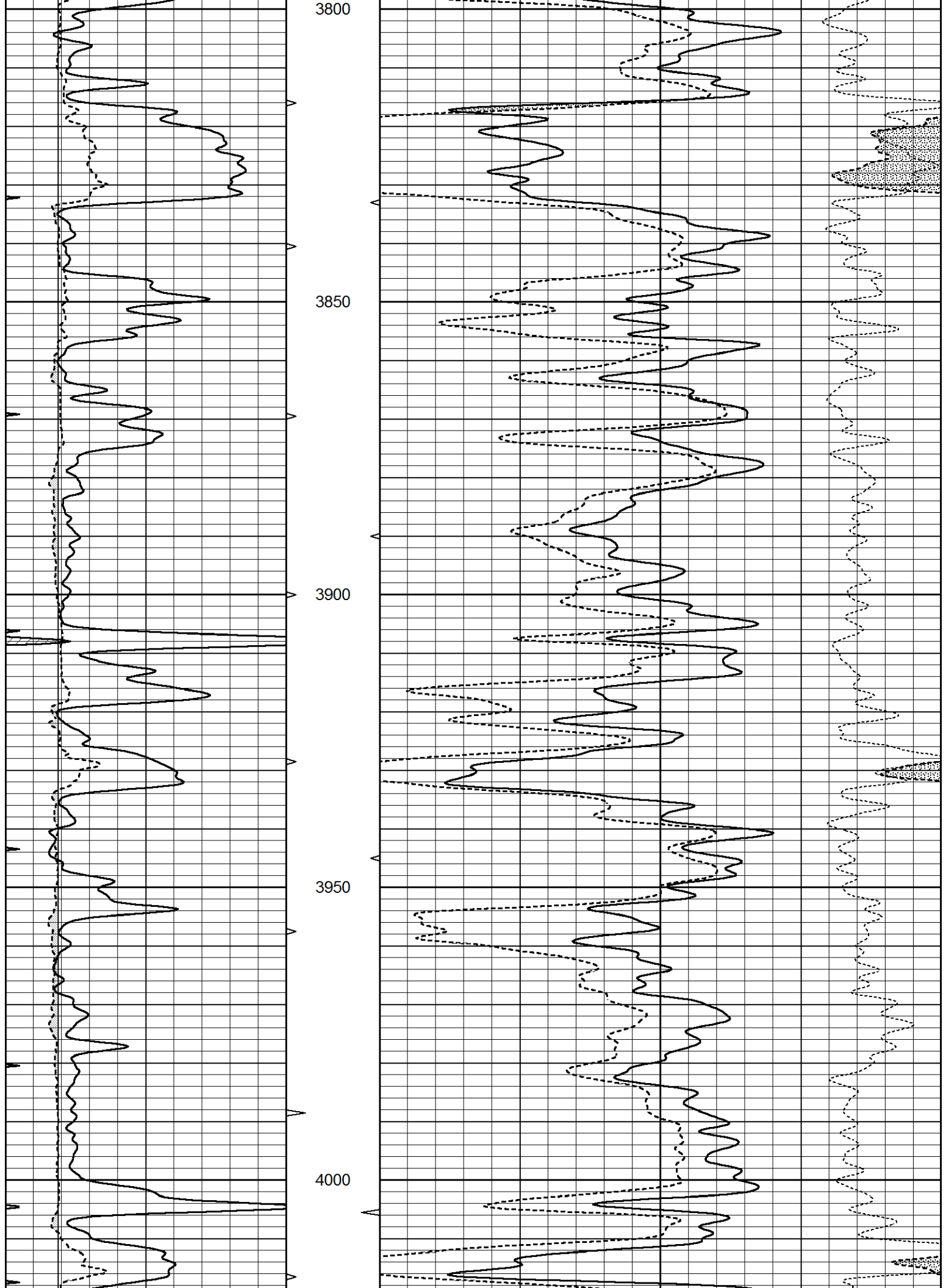
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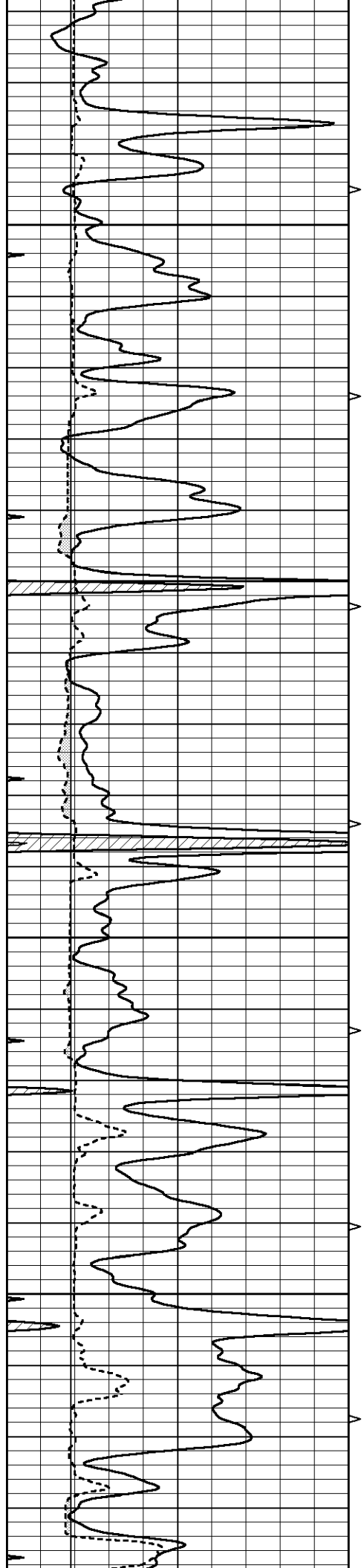
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3700

3750





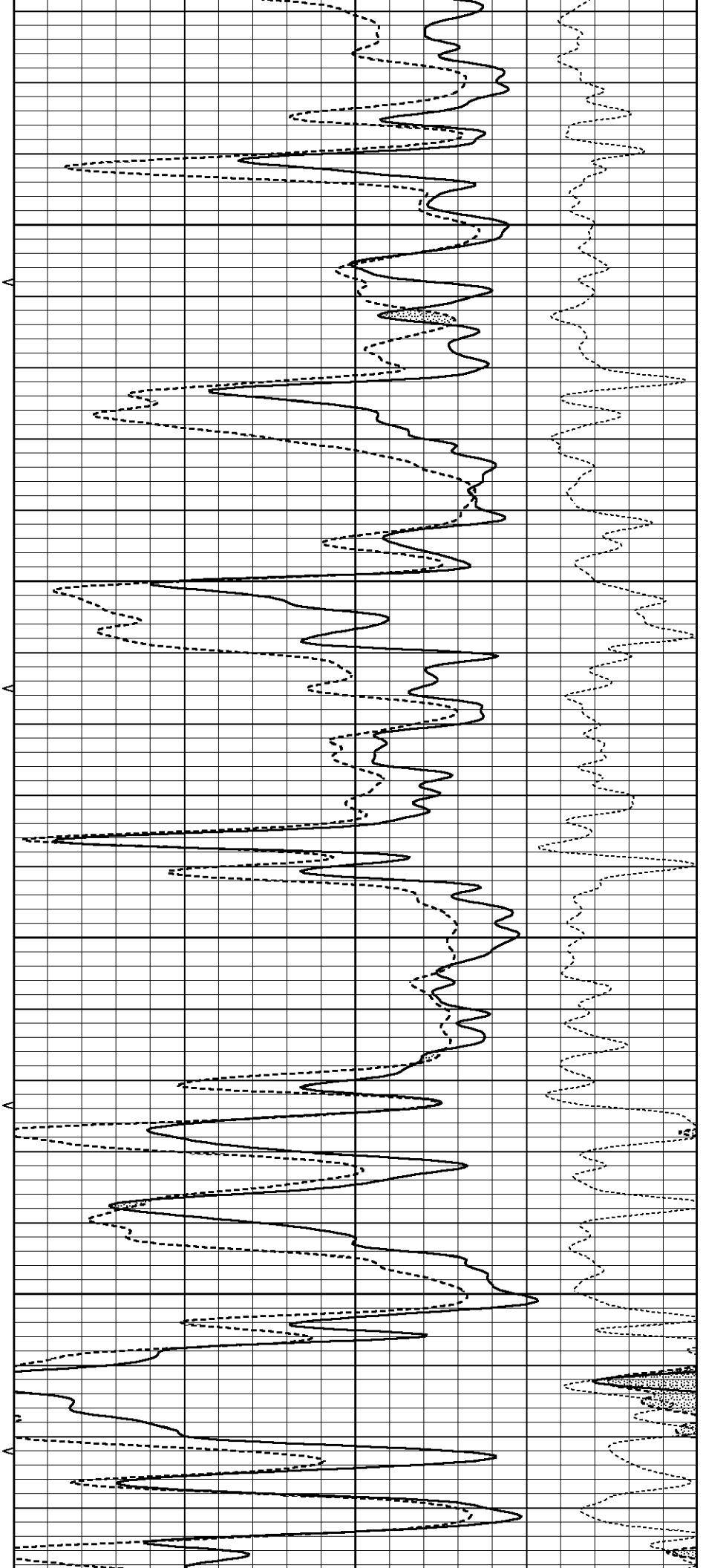


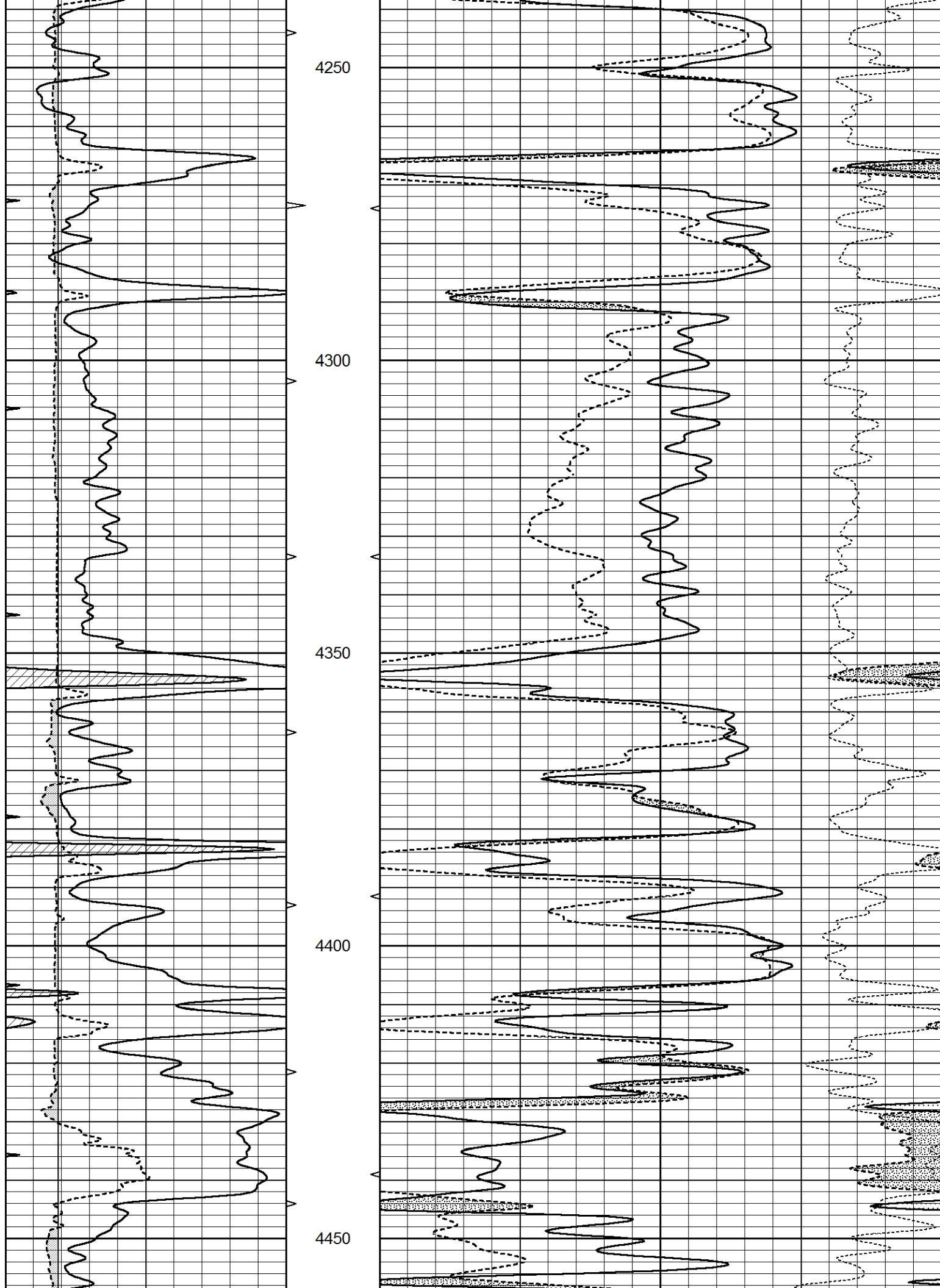
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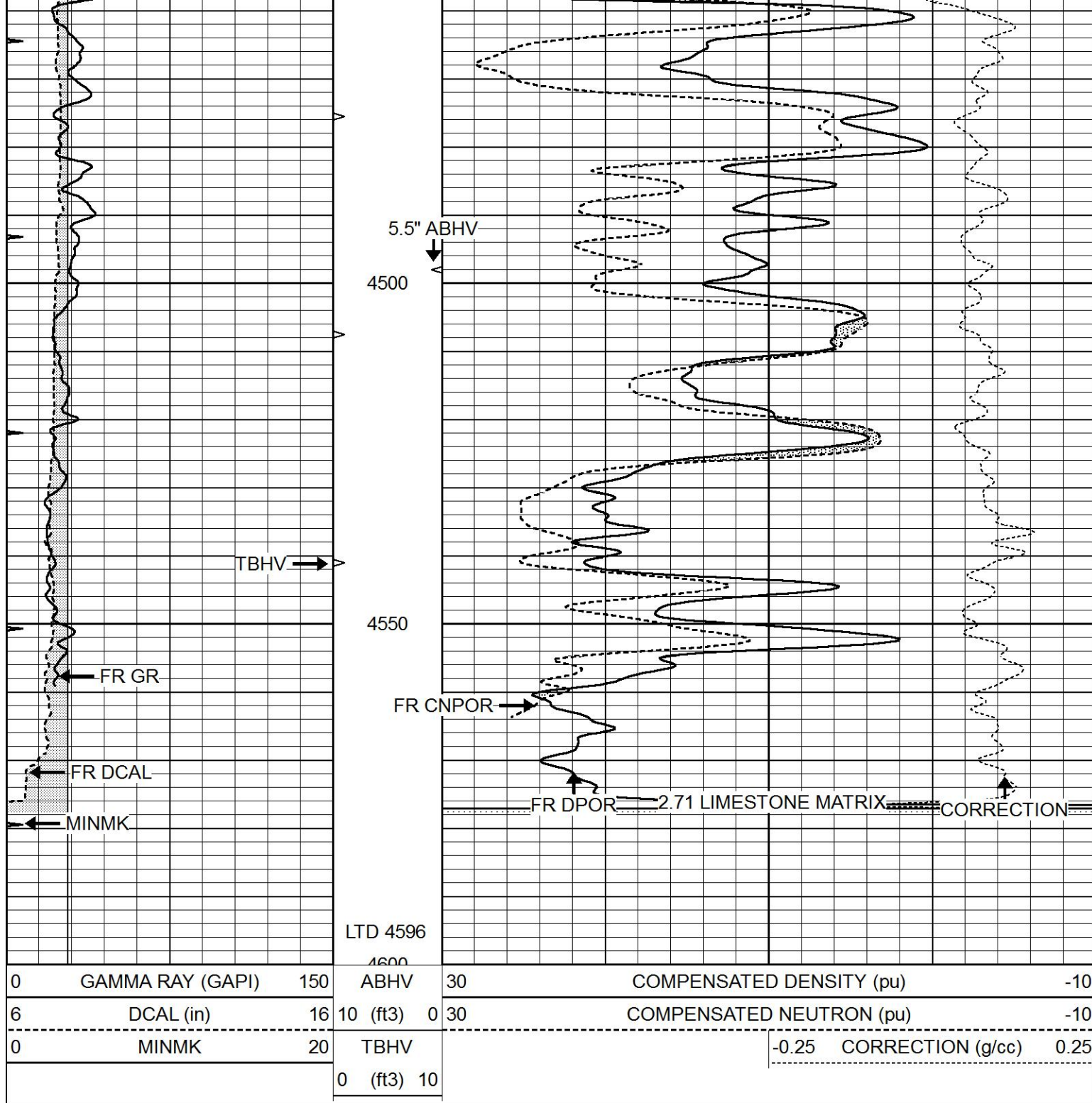
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4150

4200



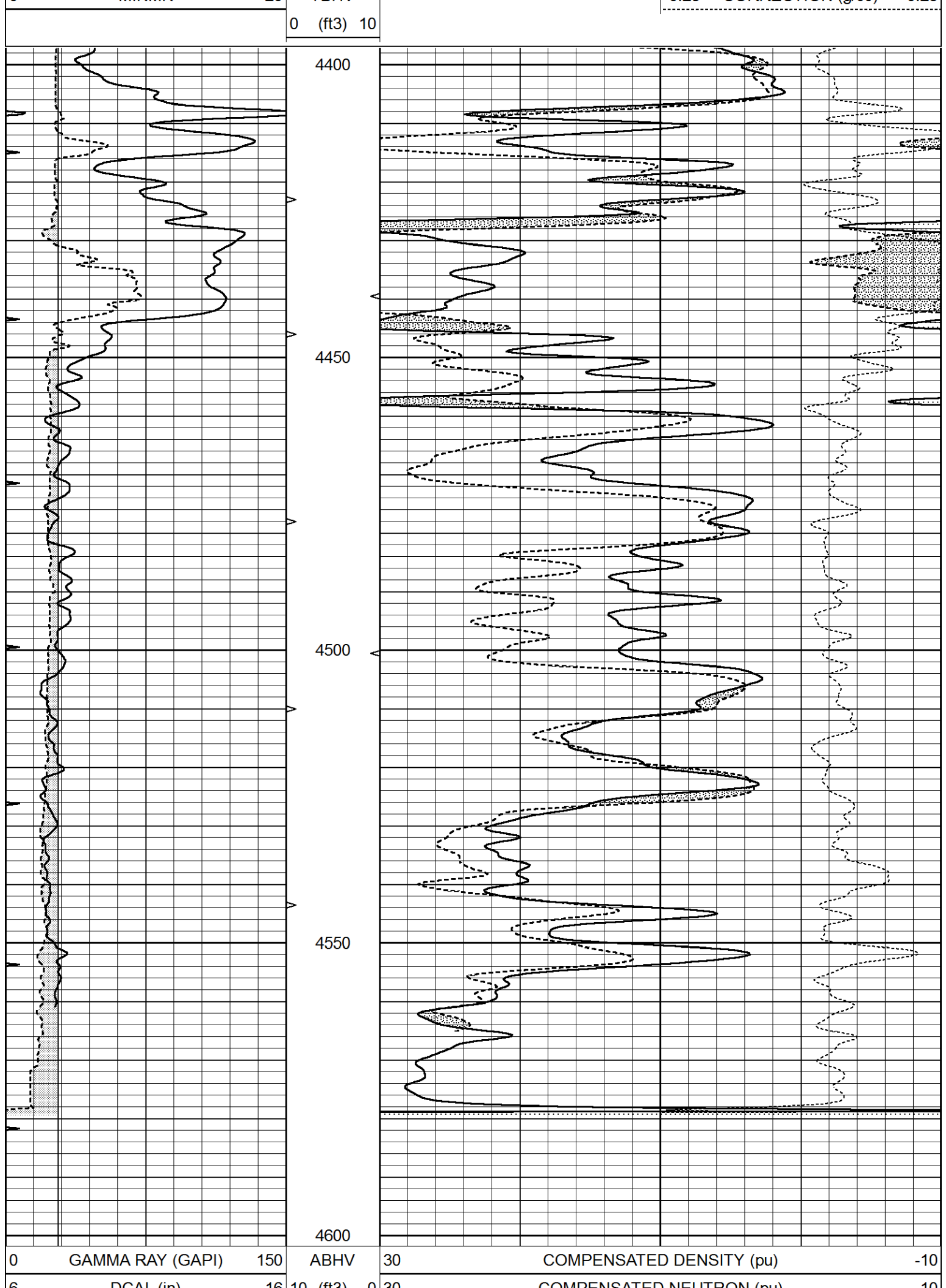




REPEAT SECTION

Database File 5828ddn.db
 Dataset Pathname pass2.2R
 Presentation Format den_neu
 Dataset Creation Sat Oct 30 11:34:43 2021
 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	MINMK	20	TBHV	-0.25	CORRECTION (g/cc)	0.25
			0 (ft3) 10			

Calibration Report						
Database File	5828ddn.db					
Dataset Pathname	pass3.1M					
Dataset Creation	Sat Oct 30 11:29:51 2021					

Dual Induction Calibration Report						
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Serial-Model:	PROBE7-DILG					
Surface Cal Performed:	Sun Oct 24 11:14:24 2021					
Downhole Cal Performed:	Thu Mar 12 11:45:10 2020					
After Survey Verification Performed:	Thu Mar 12 11:45:00 2020					

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	650.000	-5.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	680.000	-55.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration								
Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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		
		0.000	mmho-m		4000.000	mmho-m		

Litho Density Calibration Report						
Serial:	004			Model:	PRB	

Master Calibration					Performed Tue May 18 11:02:48 2021	
	Background	Magnesium	Aluminum	Aluminum+Fe		
Window 1	1187.1	10004.0	3142.5	2810.8		cps
Window 2	1084.9	8556.6	2749.3	2502.4		cps
Window 3	923.1	5129.8	1819.8	1719.3		cps
Window 4	263.5	263.6	259.7	262.8		cps
Long Space	0.0	7471.7	1664.4	1417.5		cps
Short Space	1.5	984.9	645.6	561.2		cps
Rho		1.7100	2.5900	0.0000		g/cc
Pe		2.0000	2.7500	5.7900		

Rib Angle	: 44.3	Rib Slope	: 0.976	Density/Spine Ratio	: 0.564
Spine Angle	: 74.3	Spine Slope	: 3.555	Spine Intercept	: -15.6
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	
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:		Fri Sep 03 05:25:49 2021			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.2800	GAPI/cps		