



COMPENSATED DENSITY/NEUTRON PE LOG

Company SHAKESPEARE OIL COMPANY INC.

Well YORK #3-2

Field TRI - COUNTY

County SCOTT State KANSAS

Location: API #: 15-171-21305-0000
702' FSL & 624' FEL
SW - NE - SE - SE

SEC 2 TWP 16S RGE 31W

Other Services
DIL/MEL

Permanent Datum GROUND LEVEL Elevation 2858

Elevation

Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

K.B. 2868
D.F. 2866
G.L. 2858

Date 12/5/22

Run Number ONE

Depth Driller 4610

Depth Logger 4608

Bottom Logged Interval 4584

Top Log Interval 3700

Casing Driller 8 5/8" @ 226'

Casing Logger 226

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.4/43

pH / Fluid Loss 10.0/7.2

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.60 @ 58F

Rmf @ Meas. Temp 1.20 @ 58F

Rmc @ Meas. Temp 1.92 @ 58F

Source of Rmf / Rmc MEASURED

Rm @ BHT .761 @ 122F

Time Circulation Stopped 2.5 HOURS

Time Logger on Bottom 5.30 P.M.

Maximum Recorded Temperature 122F

Equipment Number 8916

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By VERN SCHRAG

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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

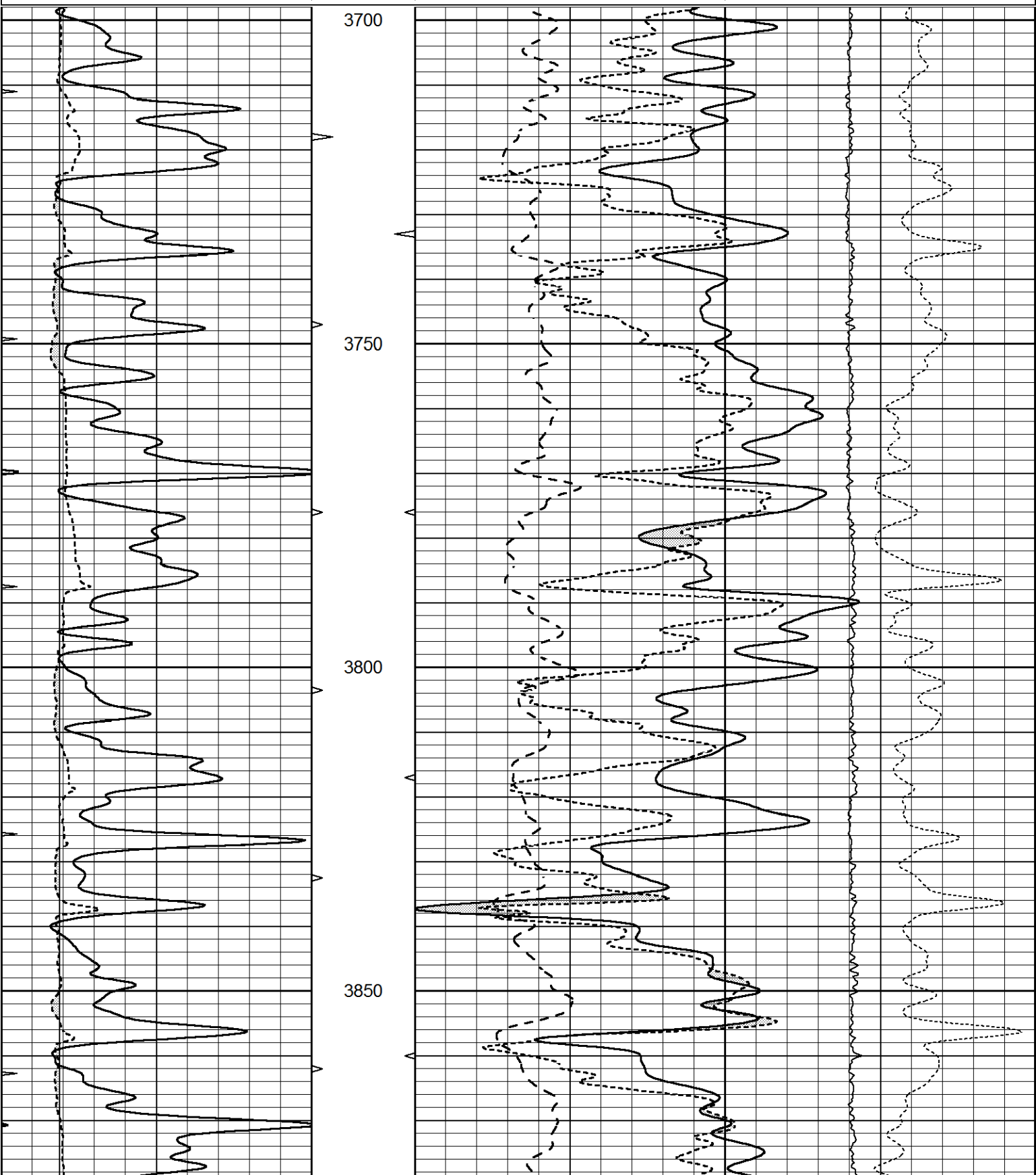
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395
DIRECTIONS:
HEALY, KS., 2W. ON HWY 4 TO "BISON RD.", 3 1/2N. TO CURVE, 2 W. TO "BISON 2 RD.", N. TO "RD. 280", W. TO FARM, N. TO "RD. 290", 1 1/2 W. PAST TANK BATTERY, N. INTO

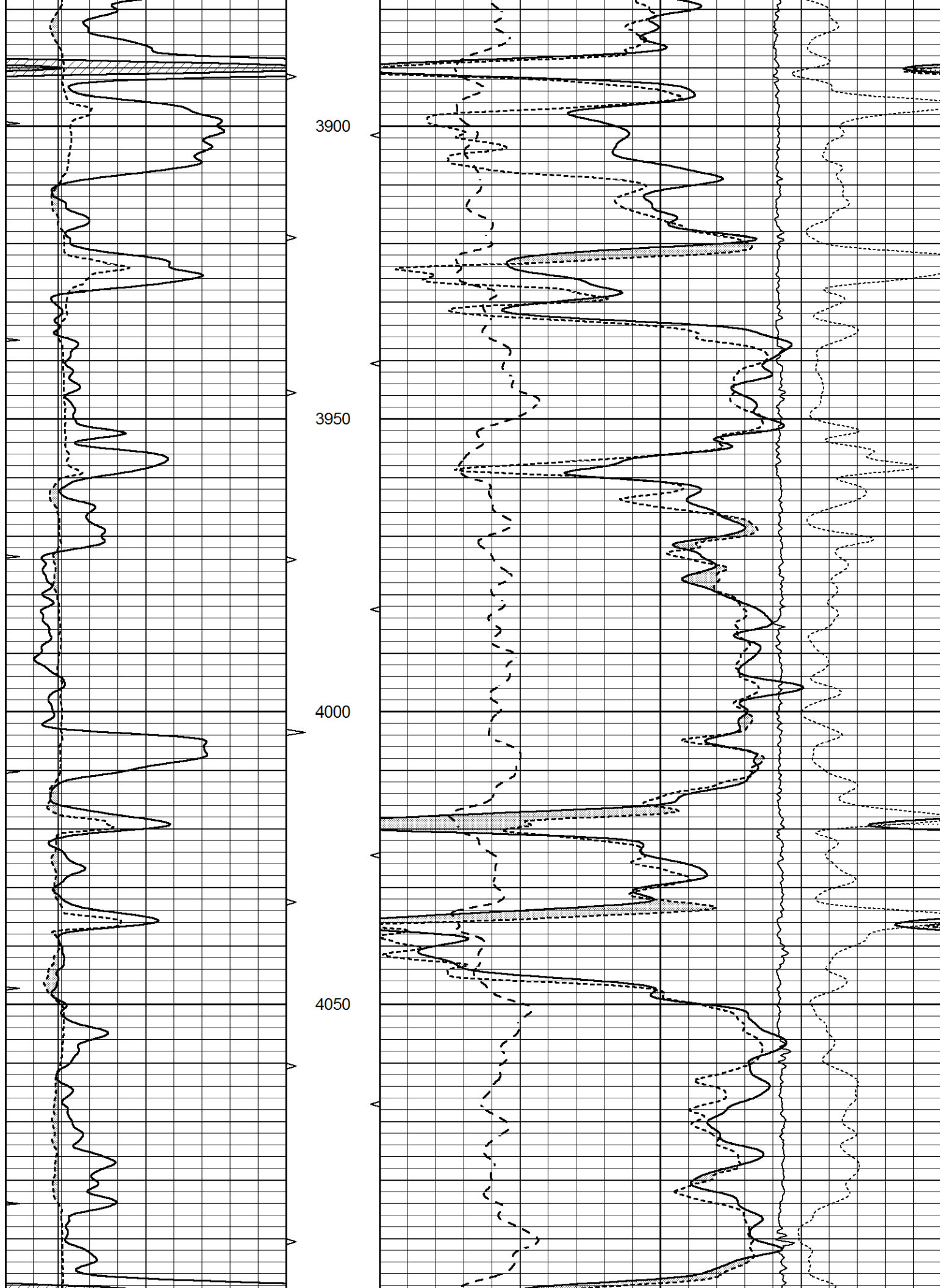


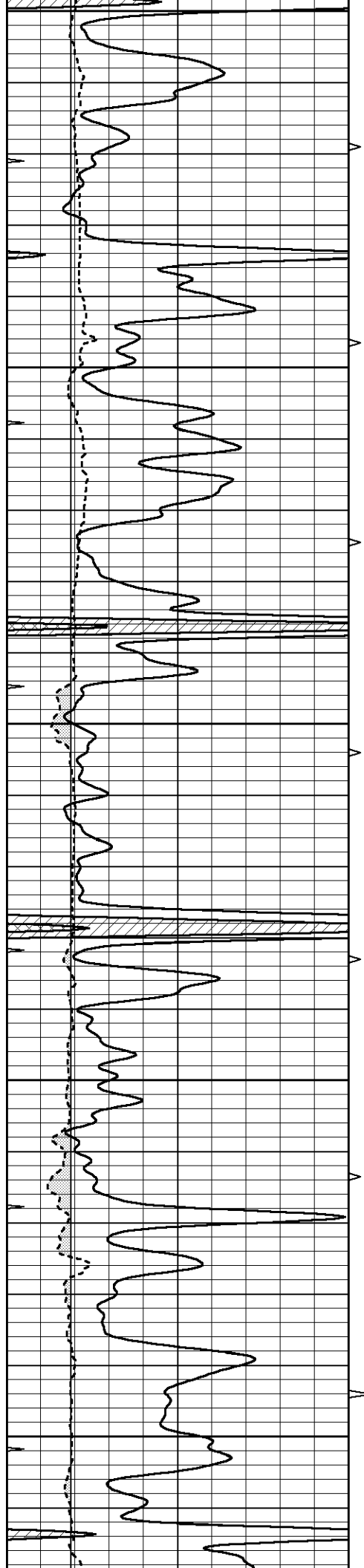
MAIN SECTION

Database File	6811pe.db
Dataset Pathname	pass3.1M
Presentation Format	ldt_neu
Dataset Creation	Mon Dec 05 19:40:49 2022
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	PE	10	0	LTEN (lb)	5000	
			0 (ft3)	10			-0.25	CORRECTION (g/cc)	0.25	







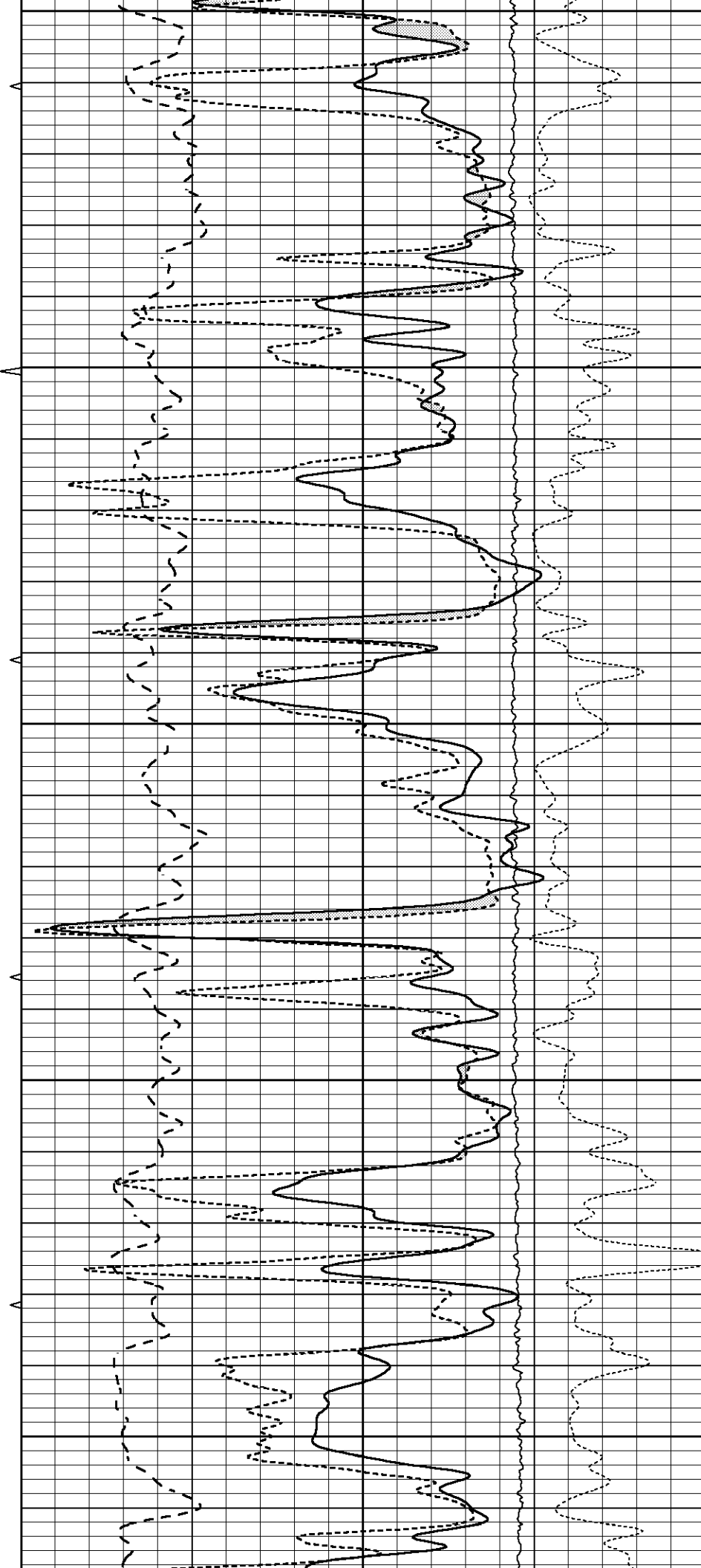
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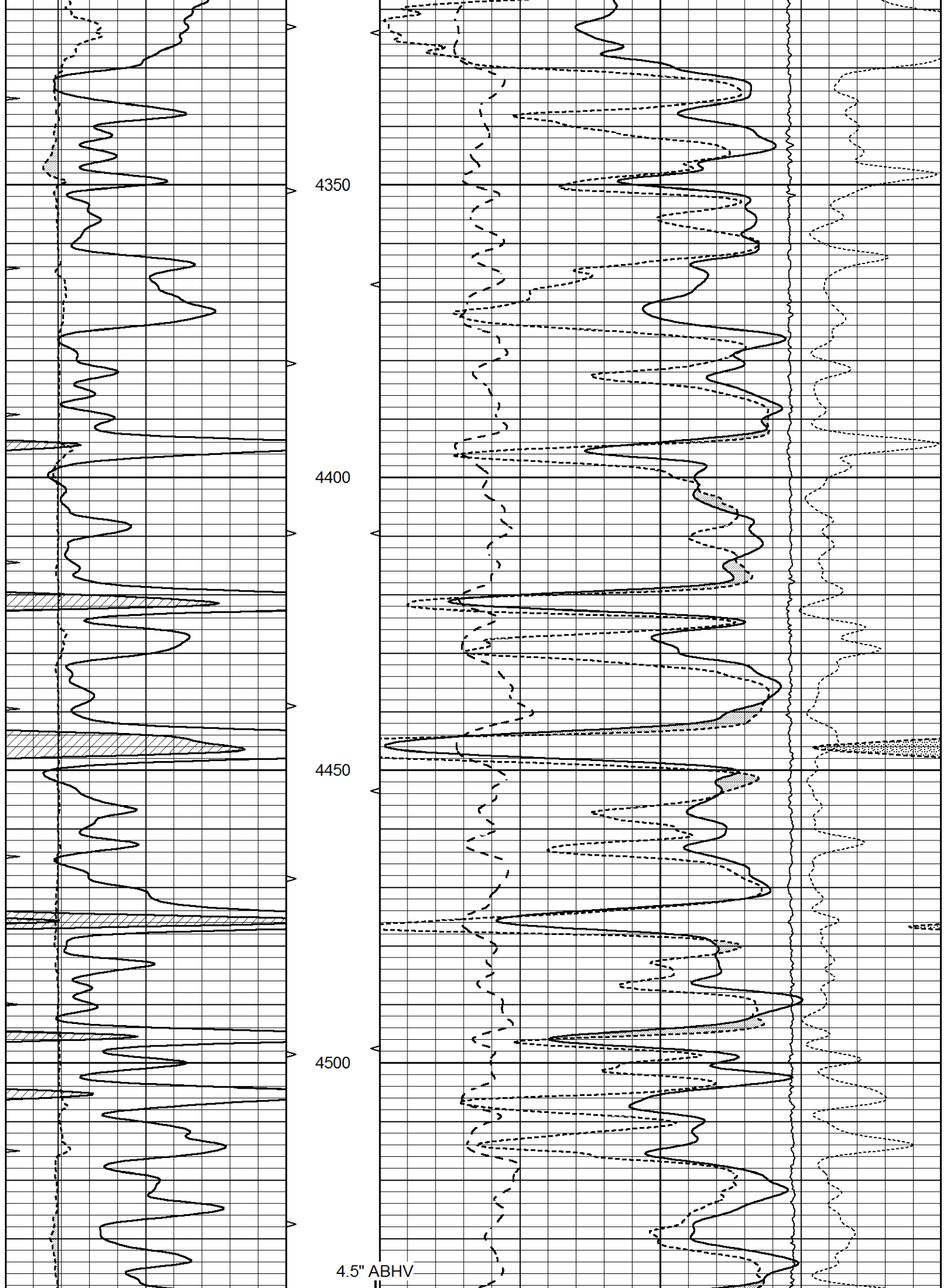
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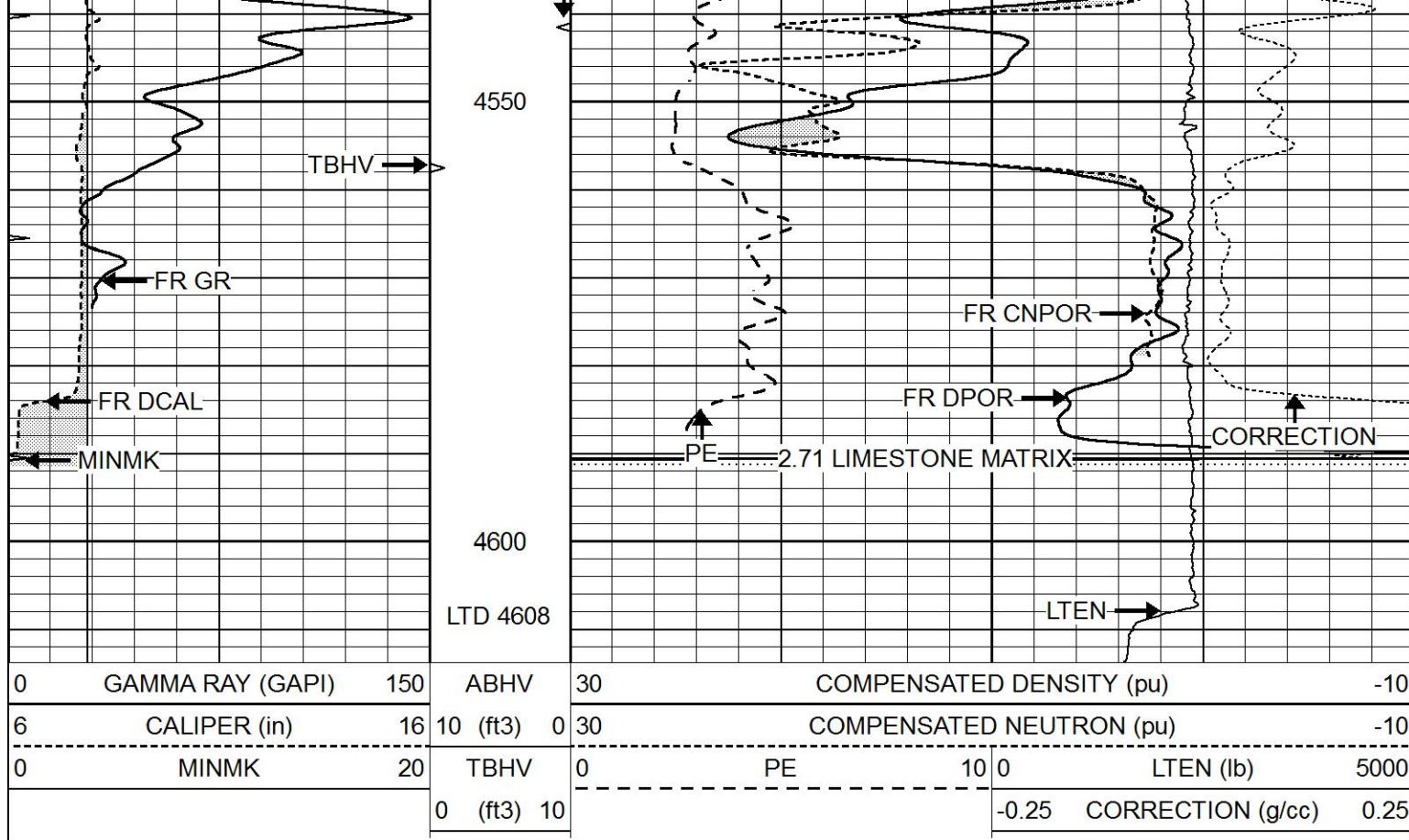
4200

4250

4300







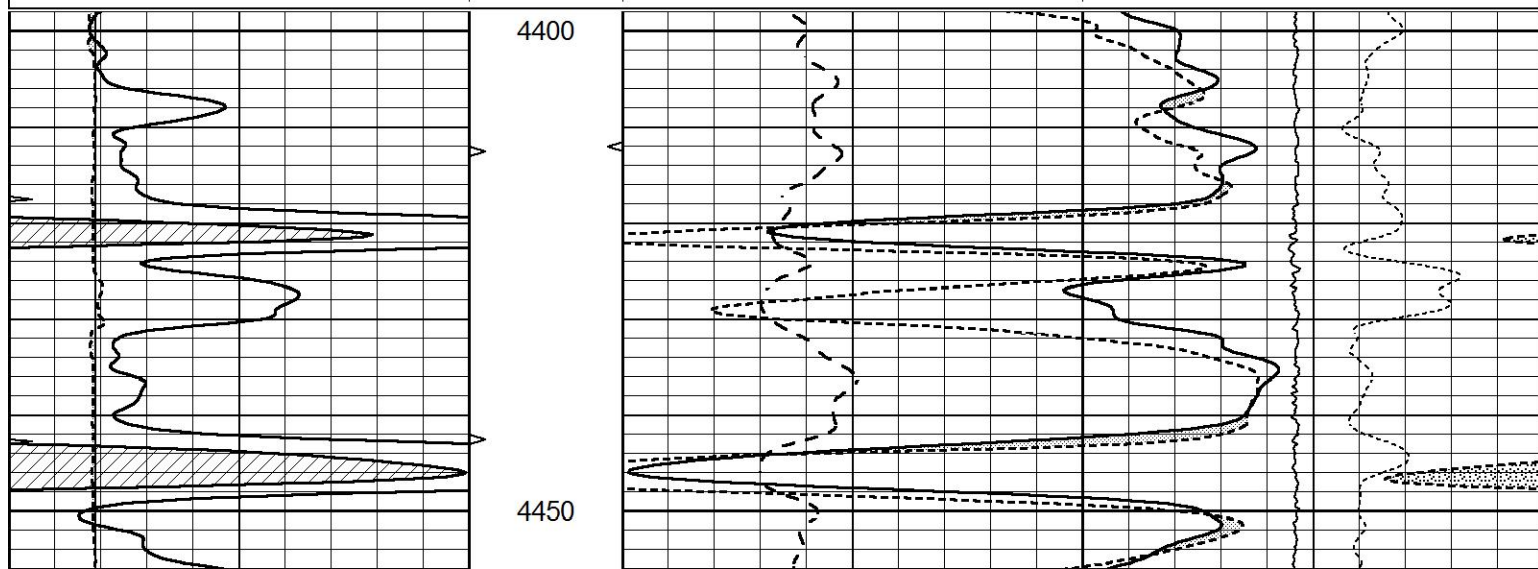
REPEAT SECTION

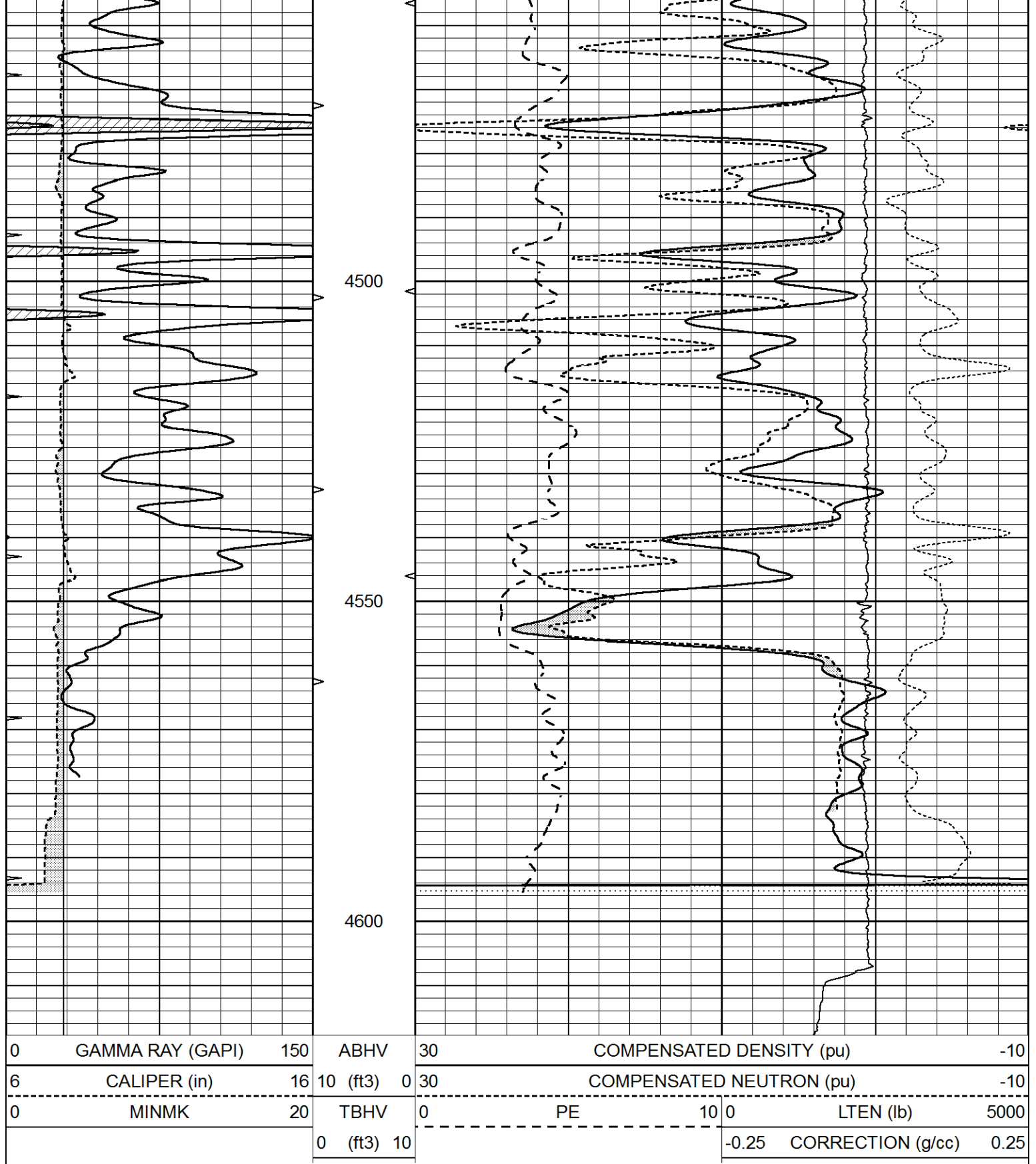
Database File 6811pe.db
 Dataset Pathname pass2.1R
 Presentation Format ldt_neu
 Dataset Creation Mon Dec 05 18:36:28 2022
 Charted by Depth in Feet scaled 1:240

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	PE	10	0	LTEN (lb) 5000

							-0.25	CORRECTION (g/cc) 0.25





Calibration Report

Database File 6811pe.db
 Dataset Pathname pass3.1M
 Dataset Creation Mon Dec 05 19:40:49 2022

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
 Surface Cal Performed: Thu Nov 17 16:51:10 2022
 Downhole Cal Performed: Mon Sep 10 14:28:38 2018

Surface Calibration								
Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	620.000	7.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	620.000	-6.000
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 Fri Nov 04 15:19:59 2022			
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	1153.2	7232.1	2536.8	2279.5				cps
Window 2	1055.6	6225.5	2222.3	2030.5				cps
Window 3	902.5	3849.3	1546.4	1462.0				cps
Window 4	254.4	258.2	253.1	253.9				cps
Long Space	0.0	5169.9	1166.7	974.9				cps
Short Space	4.7	1383.0	950.5	792.1				cps
Rho		1.7100	2.5900	0.0000				g/cc
Pe		2.0000	2.7500	5.7900				
Rib Angle	: 45.9	Rib Slope	: 1.031	Density/Spine Ratio			: 0.573	
Spine Angle	: 75.9	Spine Slope	: 3.970	Spine Intercept			: -20.2	

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					
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:		6I		
		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
PRE-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps	pu		pu
2)	Short Space		cps			
	Long Space		cps	pu		
3)	Short Space		cps			
	Long Space		cps	pu		
POST-SURVEY VERIFICATION						
Detector		Readings		Measured		Target
1)	Short Space		cps			
	Long Space		cps	pu		pu
2)	Short Space		cps			
	Long Space		cps	pu		pu
3)	Short Space		cps			
	Long Space		cps	pu		pu

Gamma Ray Calibration Report						
Serial Number:		GR6				
Tool Model:		OPEN				
Performed:		Tue Nov 08 13:43:57 2022				
Calibrator Value:		150.0		GAPI		
Background Reading:		0.0		cps		
Calibrator Reading:		276.0		cps		

Sensitivity:

0.8500

GAPI/cps