



COMPENSATED DENSITY/NEUTRON PE LOG

Company STEWART PRODUCERS, INC.

Well MORRISON #1-26

Field UNNAMED

County NESS State KANSAS

Location: API #: 15-135-26194-0000

428' FNL & 505' FVWL
SE - NW - NW - NW

Other Services
DIL/MEL
SONIC

SEC 26 TWP 19S RGE 26W

Permanent Datum GROUND LEVEL Elevation 2609
Log Measured From KELLY BUSHING 7' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2616
D.F. 2614
G.L. 2609

Date 11/20/22

Run Number ONE

Depth Driller 4660

Depth Logger 4660

Bottom Logged Interval 4436

Top Log Interval 3800

Casing Driller 8 5/8" @ 221'

Casing Logger 223

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.3/56

pH / Fluid Loss 11.0/7.2

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.50 @ 58F

Rmf @ Meas. Temp 1.13 @ 58F

Rmc @ Meas. Temp 1.80 @ 58F

Source of Rmf / Rmc MEASURED

Rm @ BHT .713 @ 122F

Time Circulation Stopped 2.5 HOURS

Time Logger on Bottom 7:30 A.M.

Maximum Recorded Temperature 122F

Equipment Number 8916

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By AARON YOUNG

CHLORIDES: 2.800 PPM

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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

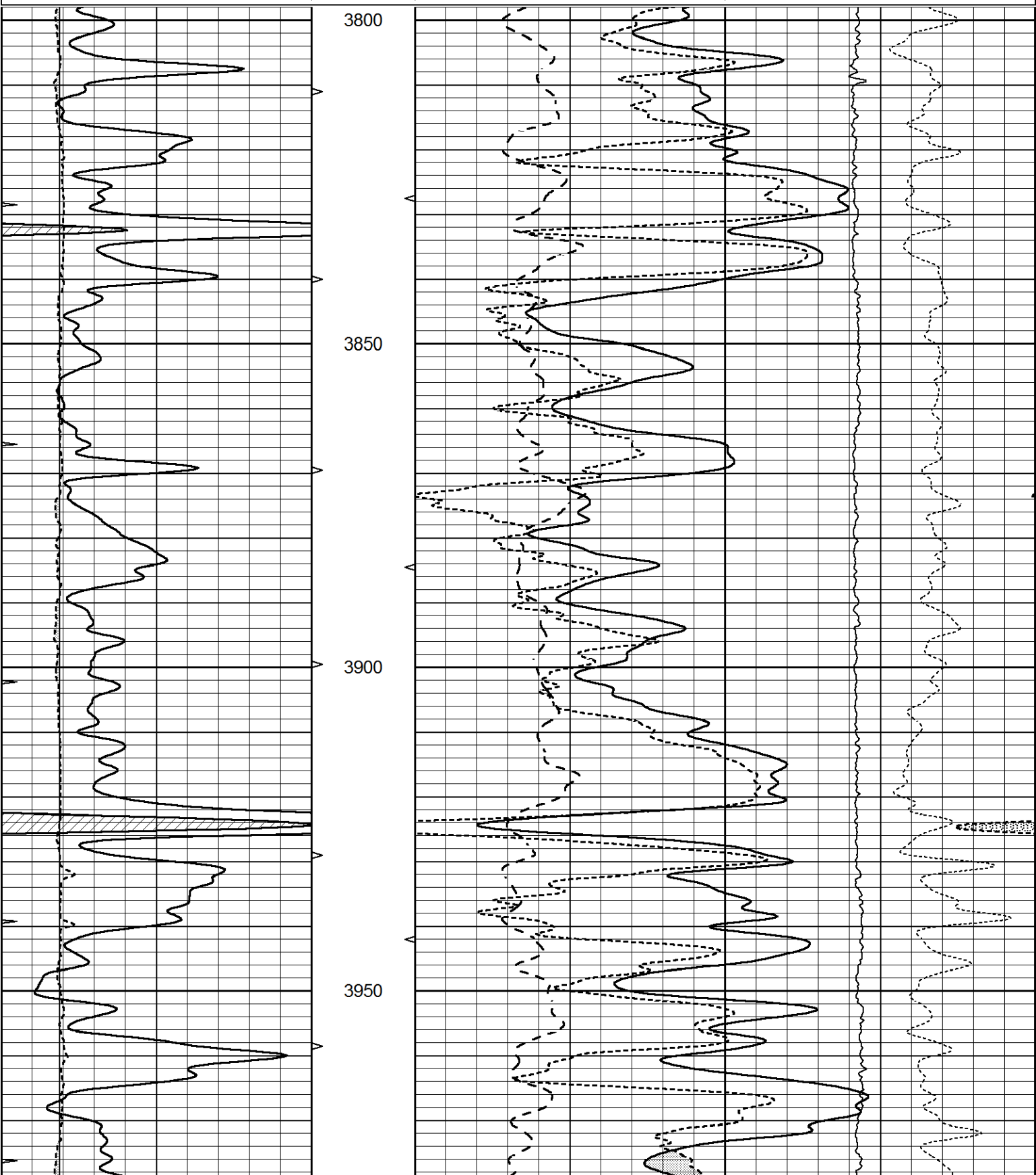
THANK YOU FOR USING ELI WIRELINE, HAYS, KS. (785) 628-6395
DIRECTIONS:
NESS CITY, KS., 15W. ON HWY 96 TO "BEELER RD.", 5S. TO "W 80RD.", 1 1/8 E., S. INTO

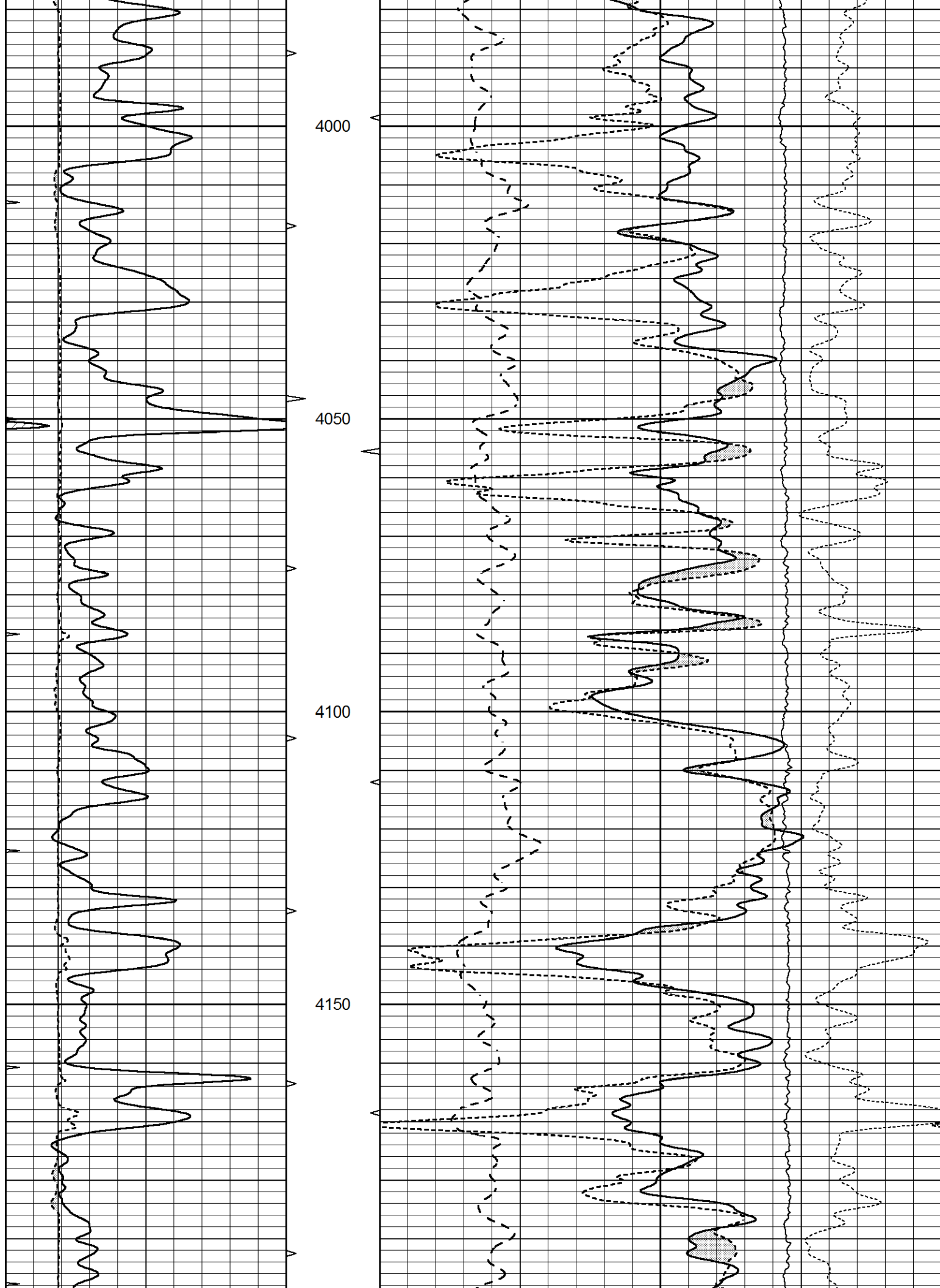


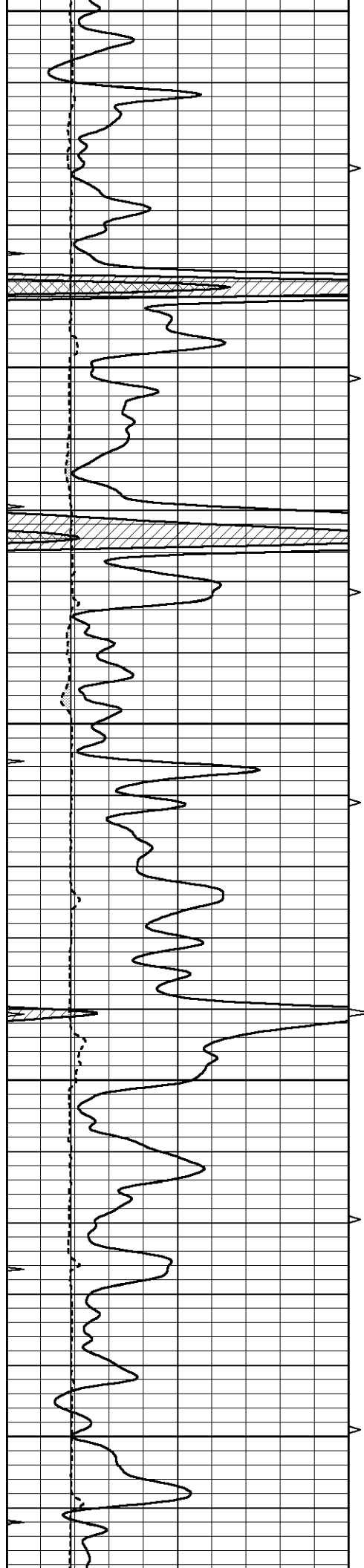
MAIN SECTION

Database File	6801pe.db
Dataset Pathname	pass3.1M
Presentation Format	ldt_neu
Dataset Creation	Sun Nov 20 09:10:46 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 (ft3) 10		0	LTEN (lb)
					-0.25	CORRECTION (g/cc)
						0.25







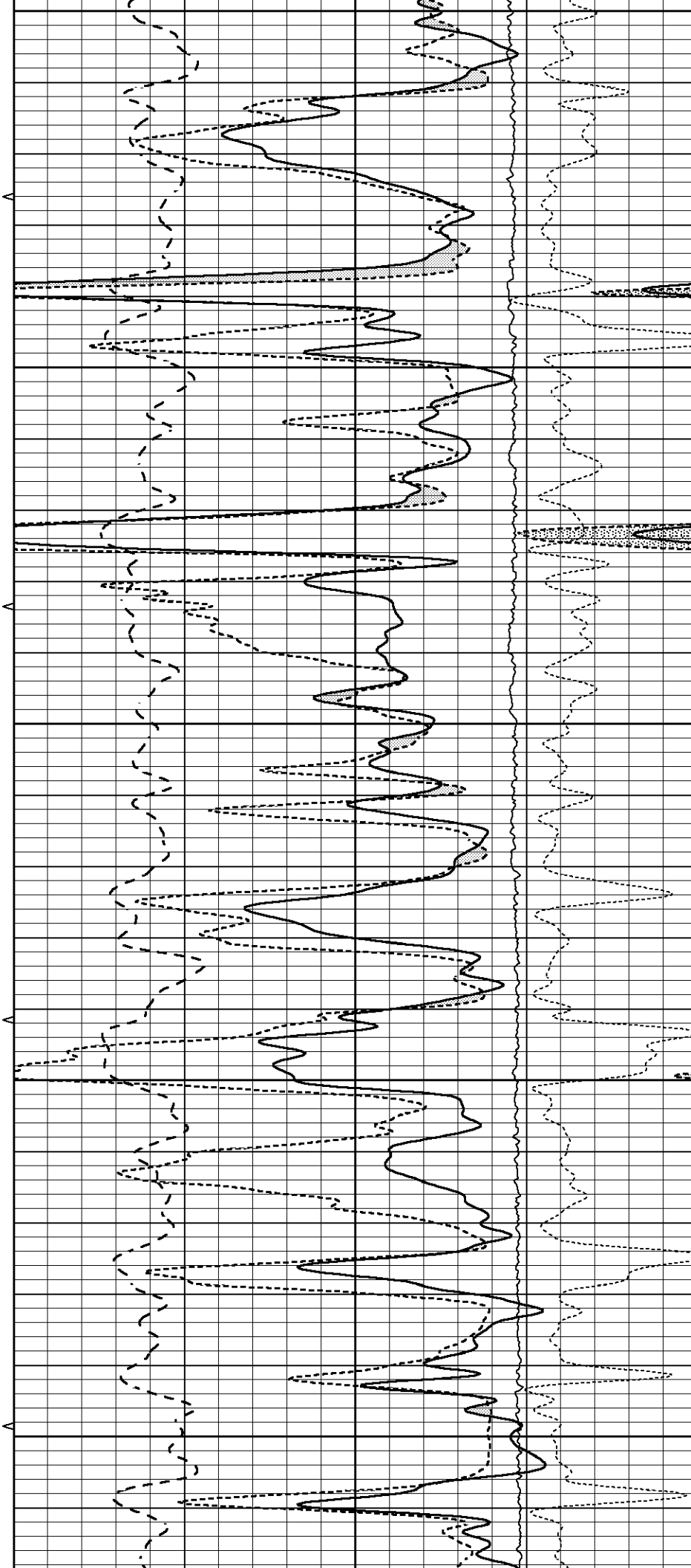
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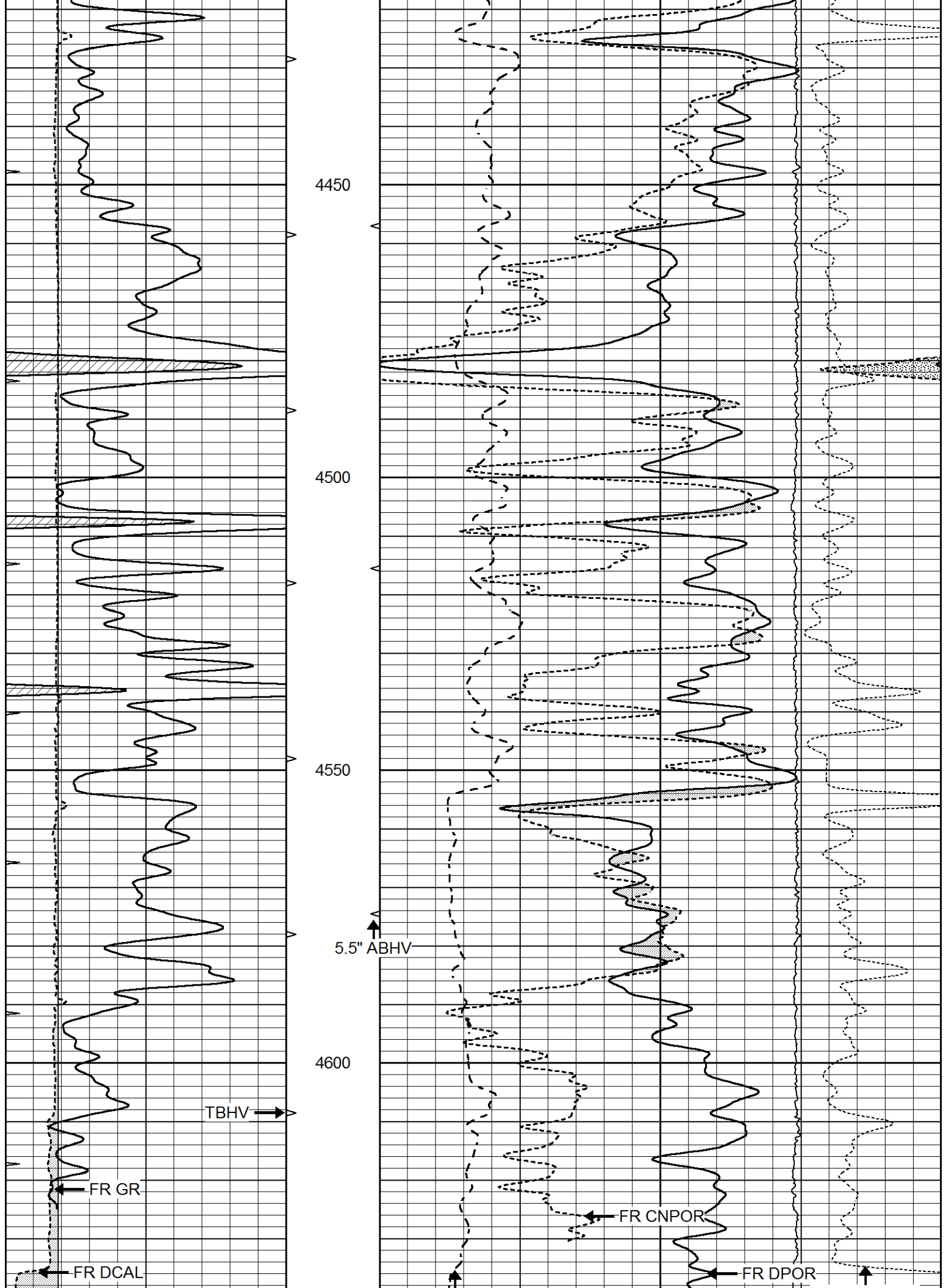
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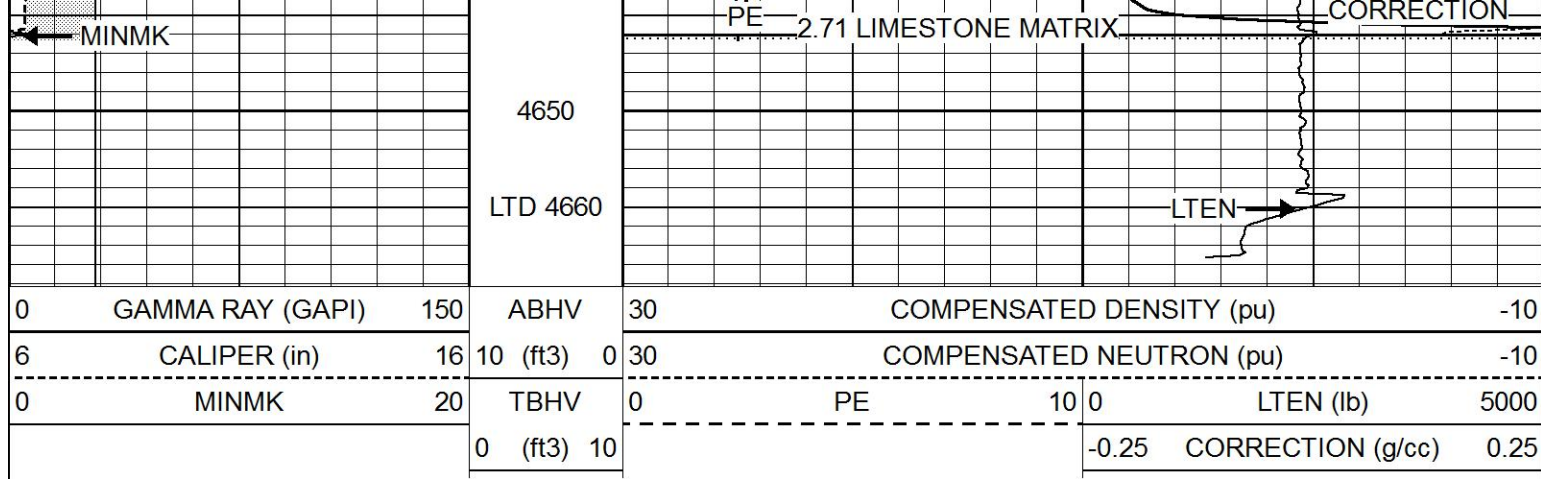
4300

4350

4400



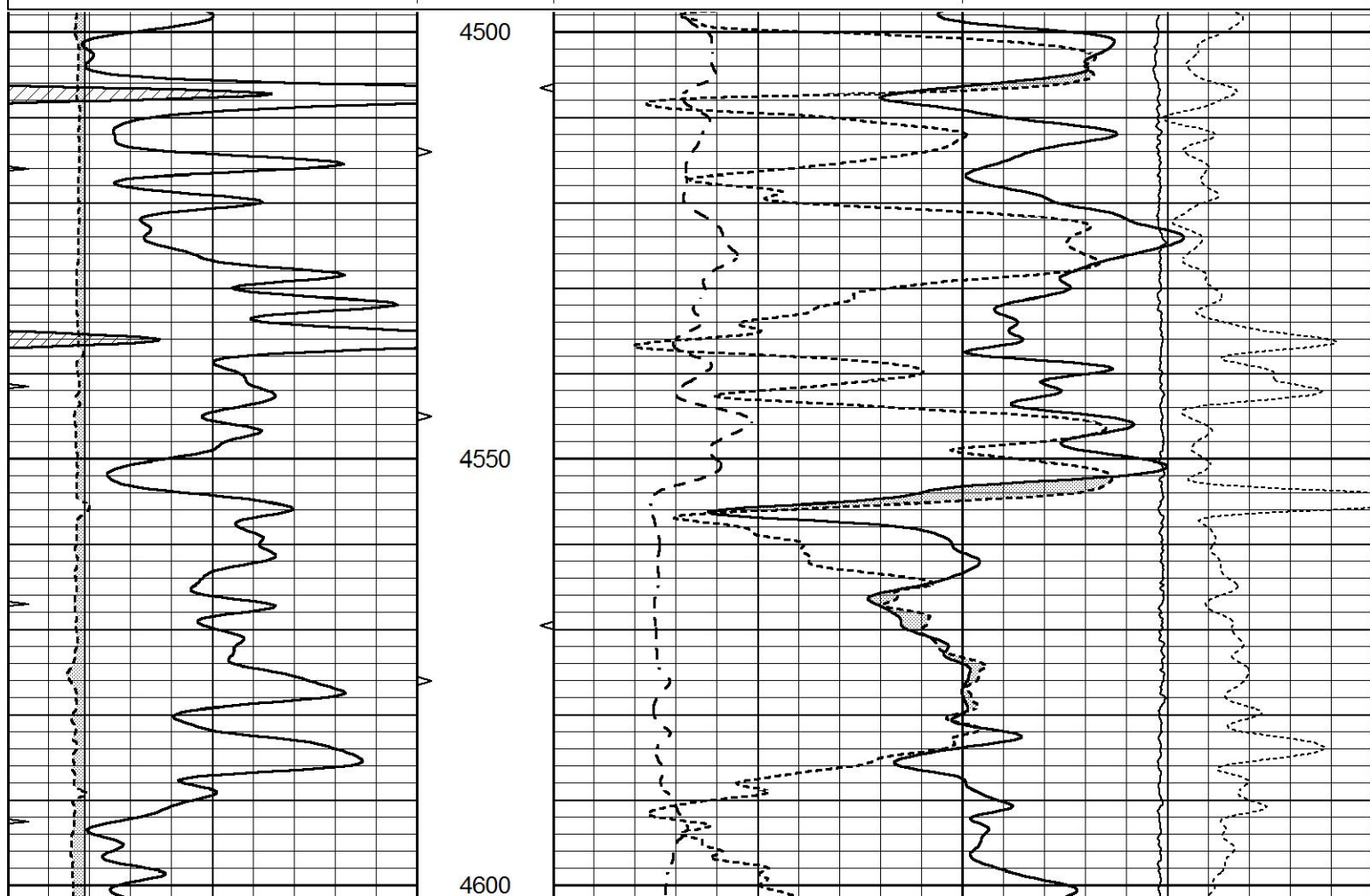


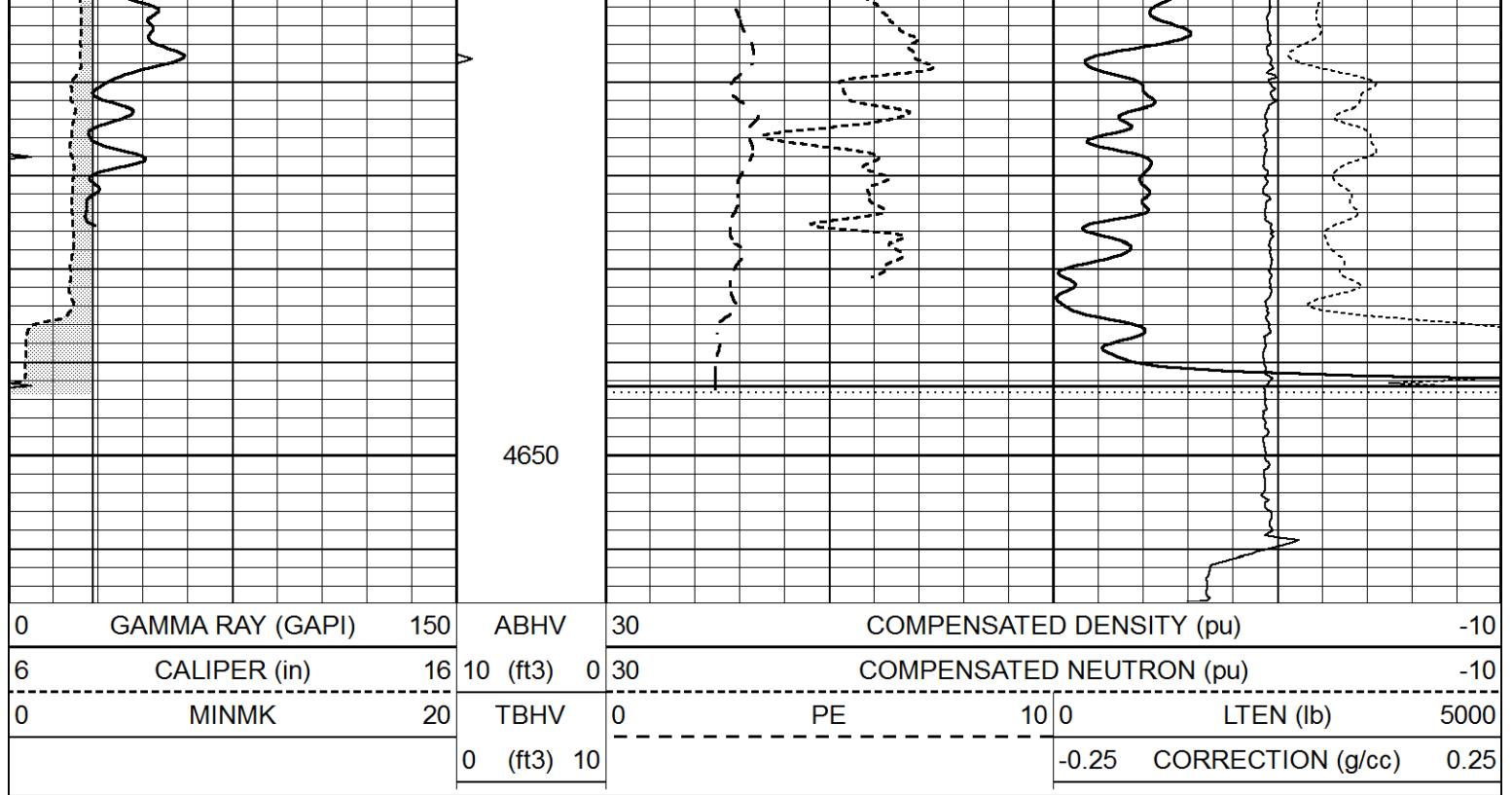


REPEAT SECTION

Database File 6801pe.db
 Dataset Pathname pass2.1R
 Presentation Format ldt_neu
 Dataset Creation Sun Nov 20 09:19:20 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
			0 (ft3) 10		LTEN (lb)	5000
					-0.25	CORRECTION (g/cc) 0.25





Calibration Report									
Database File	6801pe.db								
Dataset Pathname	pass3.1M								
Dataset Creation	Sun Nov 20 09:10:46 2022								
Dual Induction Calibration Report									
Serial-Model:				PROBE9-DILG					
Surface Cal Performed:				Sun Nov 20 01:58:28 2022					
Downhole Cal Performed:				Mon Jul 28 12:02:56 2008					
After Survey Verification Performed:				Mon Jul 28 12:02:56 2008					
Surface Calibration									
		Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b	
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	625.000	-15.000	
Medium	0.039	0.728	V	0.000	464.000	mmho/m	600.000	-14.000	
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		
		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			
Window 2	1055.6	6225.5	2222.3		2030.5			
Window 3	902.5	3849.3	1546.4		1462.0			
Window 4	254.4	258.2	253.1		253.9			
Long Space	0.0	5169.9	1166.7		974.9			
Short Space	4.7	1383.0	950.5		792.1			
Rho		1.7100	2.5900		0.0000			
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			
Window 2	0.0	0.0	0.0		0.0			
Window 3	0.0	0.0	0.0		0.0			
Window 4	0.0	0.0	0.0		0.0			
Long Space	0.0	0.0	0.0		0.0			
Short Space	0.0	0.0	0.0		0.0			
Measured Rho		0.0000	0.0000		0.0000			
Measured Correction		0.0000	0.0000		0.0000			
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			
Window 2	0.0	0.0	0.0		0.0			
Window 3	0.0	0.0	0.0		0.0			
Window 4	0.0	0.0	0.0		0.0			
Long Space	0.0	0.0	0.0		0.0			
Short Space	0.0	0.0	0.0		0.0			
Measured Rho		0.0000	0.0000		0.0000			
Measured Correction		0.0000	0.0000		0.0000			
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		

	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			