



COMPENSATED
DENSITY / NEUTRON
PE LOG

Company	PHILLIPS EXPLORATION CO.	Company	PHILLIPS EXPLORATION COMPANY, L.C.
Well	GALEN GEYER #5	Well	GALEN GEYER #5
Field	LITTLECHILD	Field	LITTLECHILD
County	TREGO	County	TREGO
State	KANSAS	State	KANSAS
Location:	API # : 15-195-23165-0000	Other Services DIL/MEL	
Permanent Datum	800' FSL & 1660' FWL	Elevation	
Log Measured From	SEC 13 TWP 11S RGE 24W SE - NW - SE - SW	K.B. 2404 D.F. 2402 G.L. 2393	
Drilling Measured From	GROUND LEVEL		
	KELLY BUSHING 11' A.G.L.		
	KELLY BUSHING		
Date	9/3/23		
Run Number	ONE		
Depth Driller	4040		
Depth Logger	4044		
Bottom Logged Interval	4020		
Top Log Interval	3400		
Casing Driller	8 5/8"@222'		
Casing Logger	222		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,900 PPM	
Density / Viscosity	9.1/55		
pH / Fluid Loss	11.0/5.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.10@87F		
Rmf @ Meas. Temp	.825@87F		
Rmc @ Meas. Temp	1.32@87F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.825@116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:00 A.M.		
Maximum Recorded Temperature	116F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	PAT DEENIHAN		

<<< Fold Here >>>

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.

15-195-23165-0000

Comments

THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395

DIRECTIONS

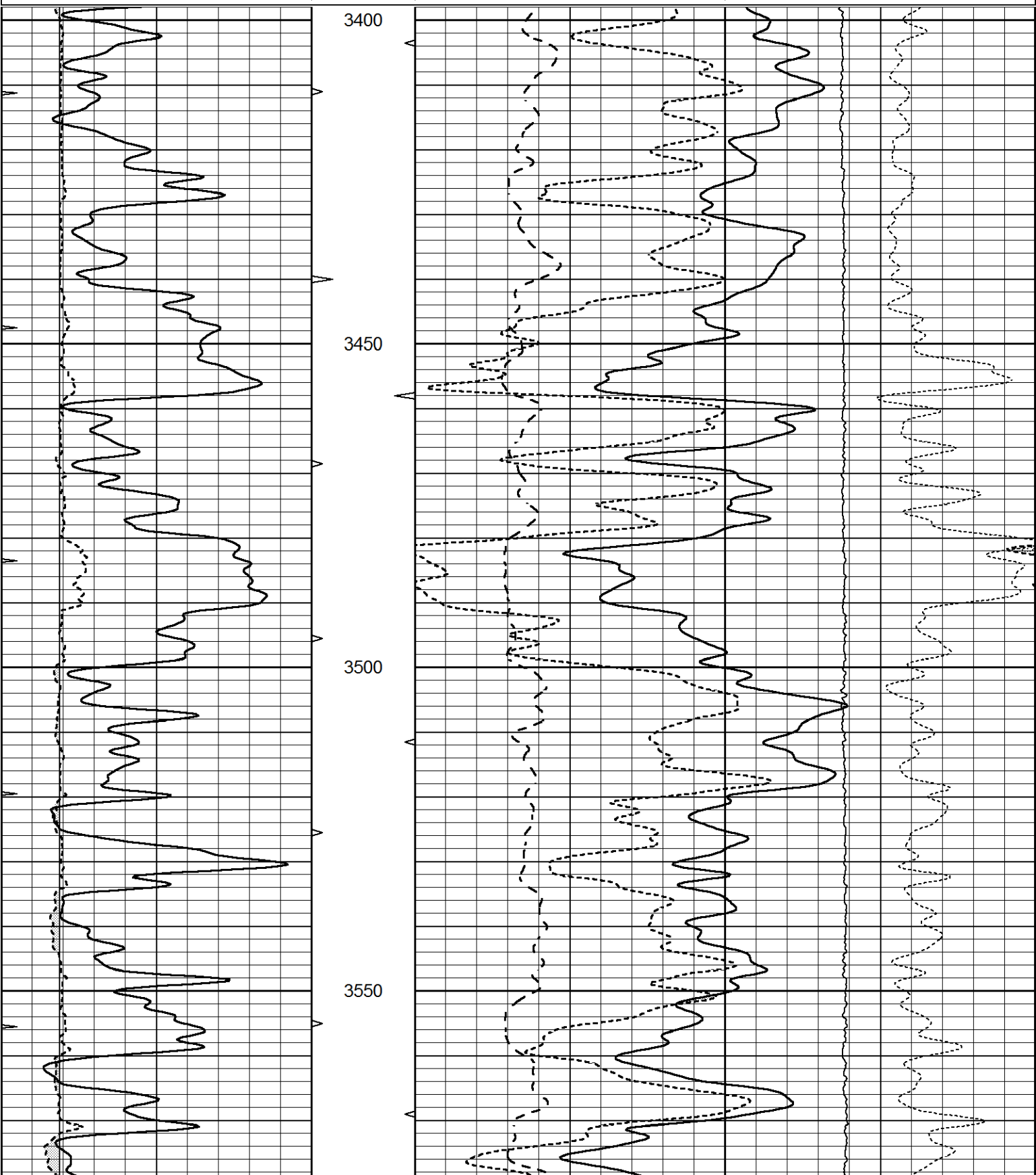
WAKEENEY, KS., 5N. ON HWY 283 TO "RD. B", 4W. TO "RD. 220", 3/4S. VEER LEFT @TANK BATTERY, FOLLOW LEASE RD. TO SECOND TANK BATTERY THEN TAKE TRAIL SOUTH AND BACK WEST

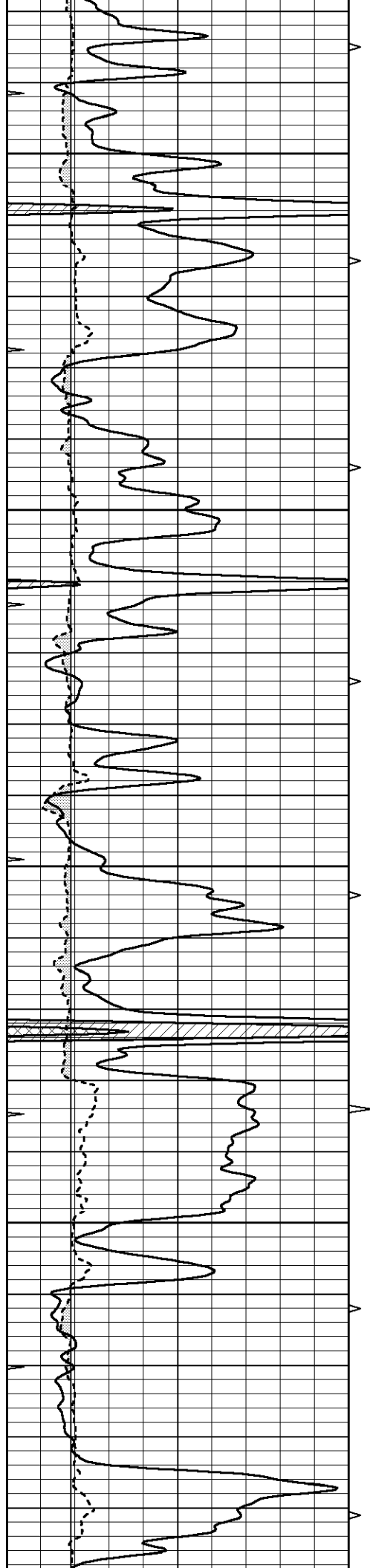


MAIN SECTION

Database File	8206pe.db
Dataset Pathname	pass3.2M
Presentation Format	_ldt_neu
Dataset Creation	Sun Sep 03 07:48:46 2023
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 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10		0	LTEN (lb) 5000



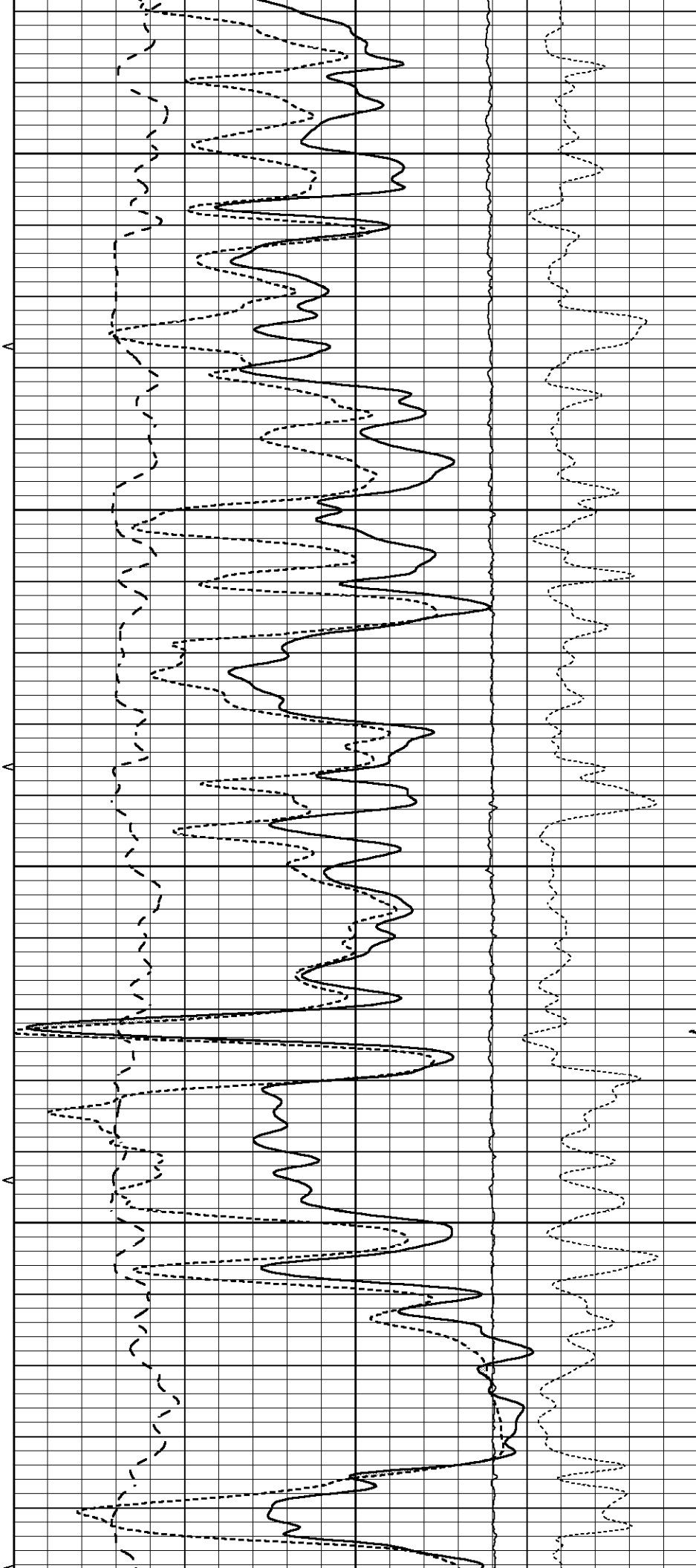


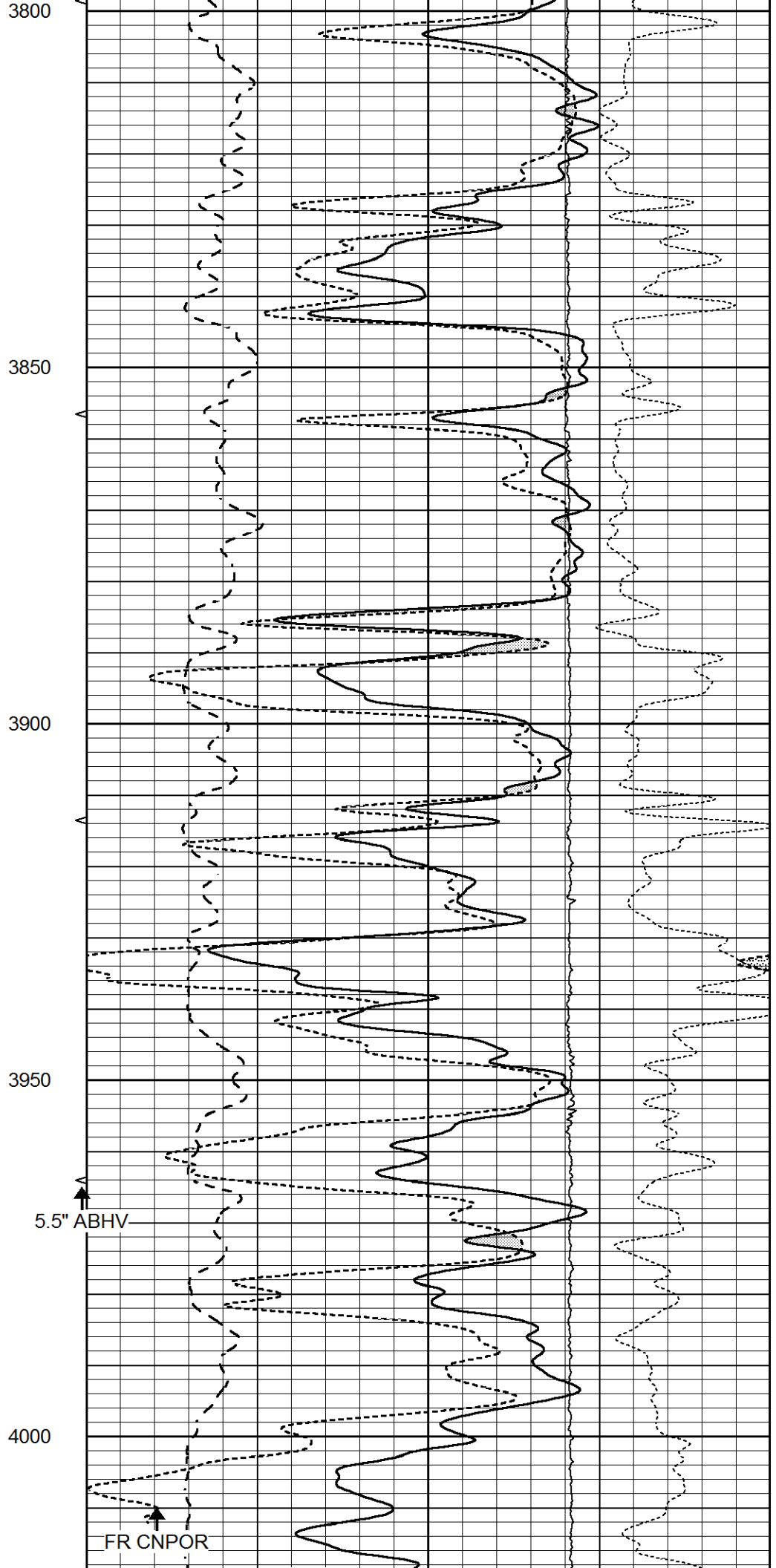
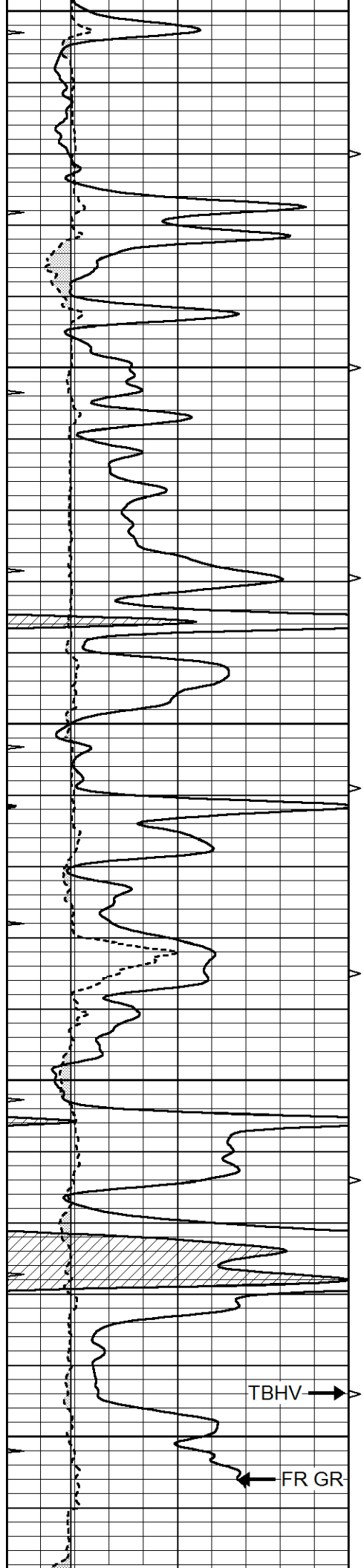
3600

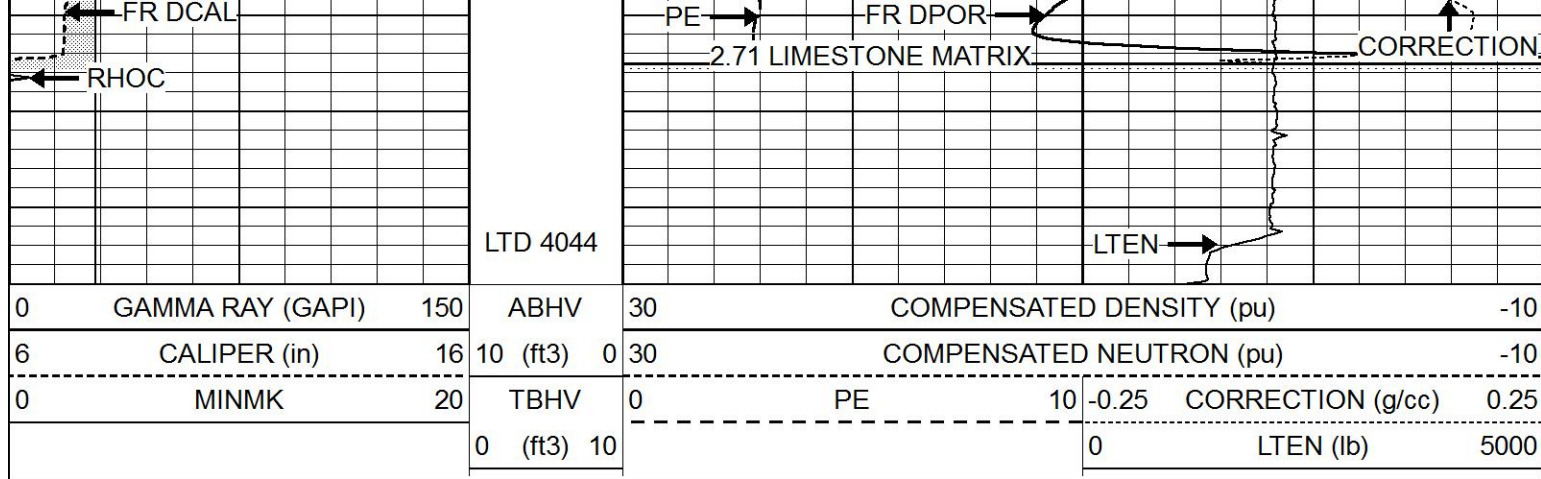
3650

3700

3750



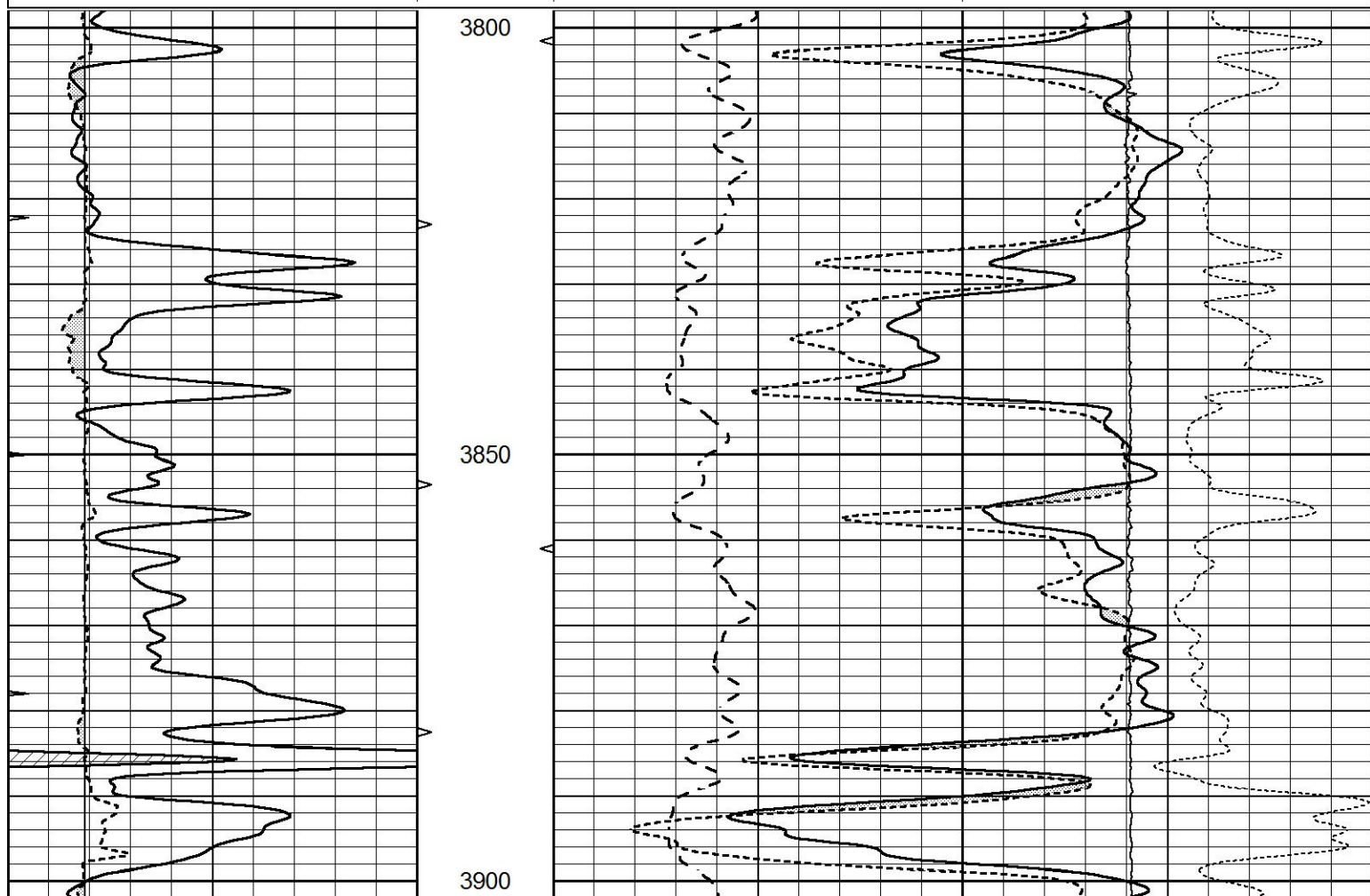


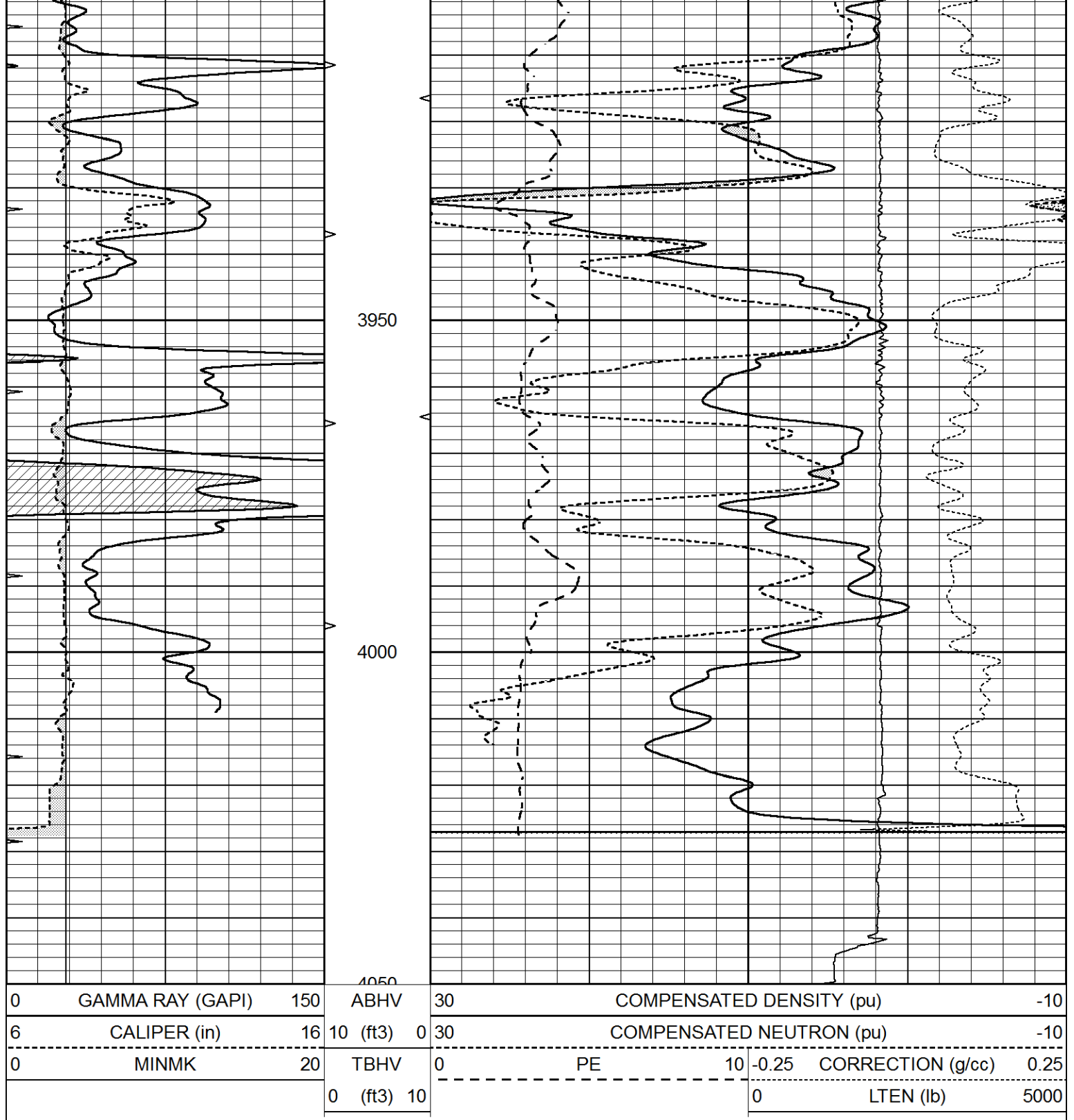


REPEAT SECTION

Database File 8206pe.db
 Dataset Pathname pass2.1R
 Presentation Format _ldt_neu
 Dataset Creation Sun Sep 03 07:56:30 2023
 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		-0.25	CORRECTION (g/cc) 0.25
					0	LTEN (lb) 5000





Calibration Report

Database File 8206pe.db
 Dataset Pathname pass3.2M
 Dataset Creation Sun Sep 03 07:48:46 2023

Dual Induction Calibration Report

Serial-Model:	DIL7-GEAR
Surface Cal Performed:	Sun Sep 03 06:47:04 2023
Downhole Cal Performed:	Tue Apr 17 15:38:44 2007
After Survey Verification Performed:	Tue Apr 17 15:38:40 2007

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.019	0.660	V	0.000	400.000	mmho/m	660.000	18.000
Medium	-0.006	0.655	V	0.000	462.500	mmho/m	720.000	-18.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.010	0.665	V	0.000	400.000	mmho/m	610.018	-5.925
Medium	0.009	0.655	V	0.000	400.000	mmho/m	618.983	-5.564

Downhole Calibration								
Readings				References			Results	
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	3.372	400.834	mmho/m	0.556	401.206	mmho/m	1.008	-2.843
Medium	13.557	467.446	mmho/m	9.465	462.114	mmho/m	0.997	-4.055
Shallow	2.521	0.019	V	500.000	2.000	Ohm-m	250.000	2.000

After Survey Verification								
Readings				Targets			Results	
Internal:	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	3.372	400.834	mmho/m	1.008	-2.843
Medium	0.000	0.000	mmho/m	13.557	467.446	mmho/m	0.997	-4.055
Shallow	2.500	0.000	Ohm-m	500.000	2.000	Ohm-m	250.000	0.000

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	
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:		Wed Aug 23 13:21:36 2023			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		
Calibrator Reading:		1.0	cps		
Sensitivity:		0.3000	GAPI/cps		