



COMPENSATED DENSITY/NEUTRON PE LOG

Company SHAKESPEARE OIL COMPANY INC.

Well TRACTOR #2-13

Field BECKLEY

County SCOTT State KANSAS

Location: API #: 15-171-21286-0000

1070' FNL & 1220' FEL
SW - SW - NE - NE

Other Services
DIL/MEL

SEC 13 TWP 18S RGE 32W

Permanent Datum GROUND LEVEL Elevation 2960
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2971
D.F. 2969
G.L. 2960

Date 4/10/22

Run Number ONE

Depth Driller 4640

Depth Logger 4640

Bottom Logged Interval 4616

Top Log Interval 3600

Casing Driller 8 5/8" @ 265'

Casing Logger 265'

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.3/67

pH / Fluid Loss 10.5/8.0

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.30 @ 70F

Rmf @ Meas. Temp 0.98 @ 70F

Rmc @ Meas. Temp 1.56 @ 70F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT 0.75 @ 122F

Time Circulation Stopped 3 HOURS

Time Logger on Bottom 5.00 A.M.

Maximum Recorded Temperature 122F

Equipment Number 922339

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By KENT MATSON

CHLORIDES 2000 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.

15-171-21286-0000

Comments

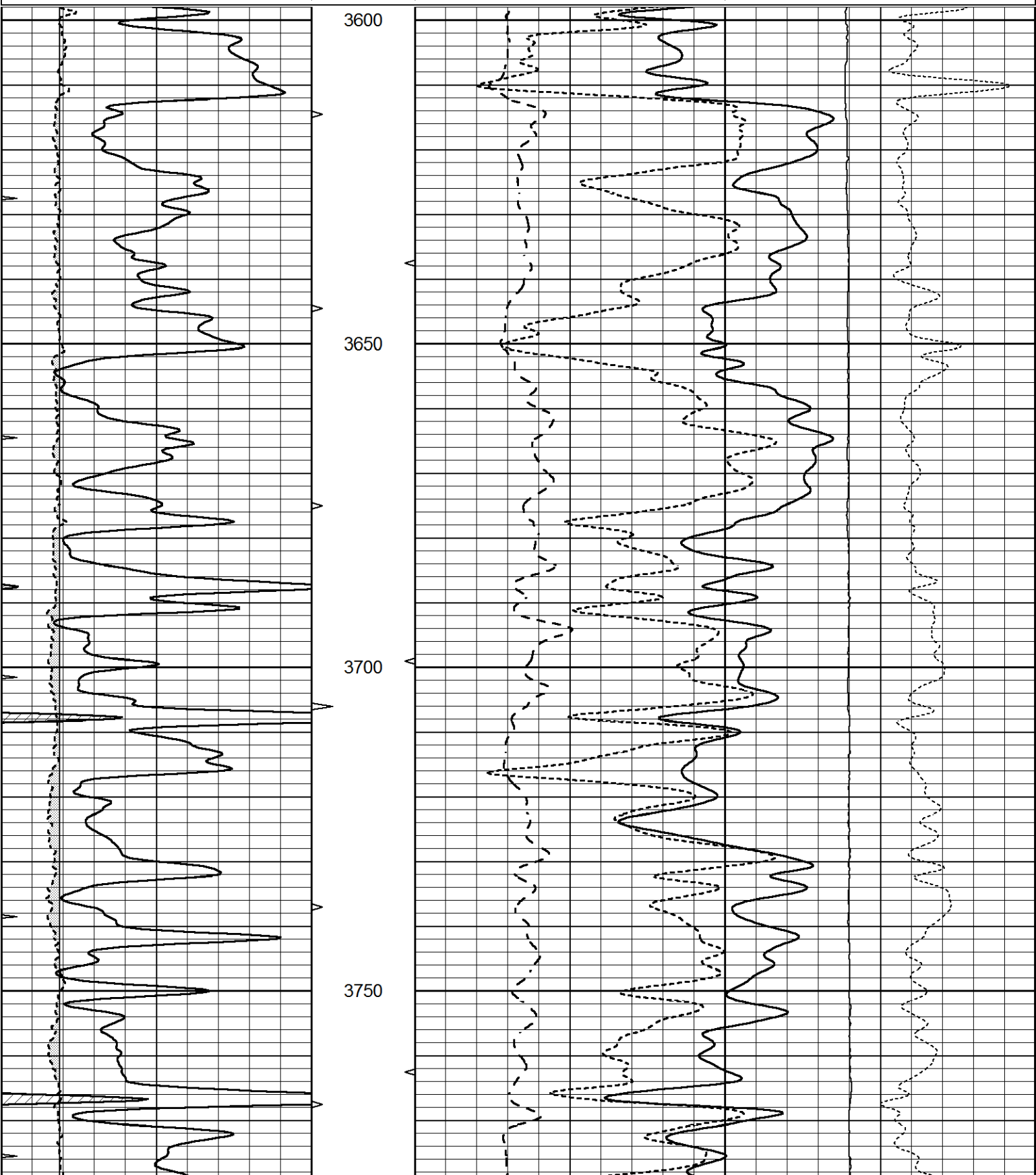
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
SCOTT CITY KS. 5 E ON HWY 96 TO RODEO RD, 3/4 N AND W INTO



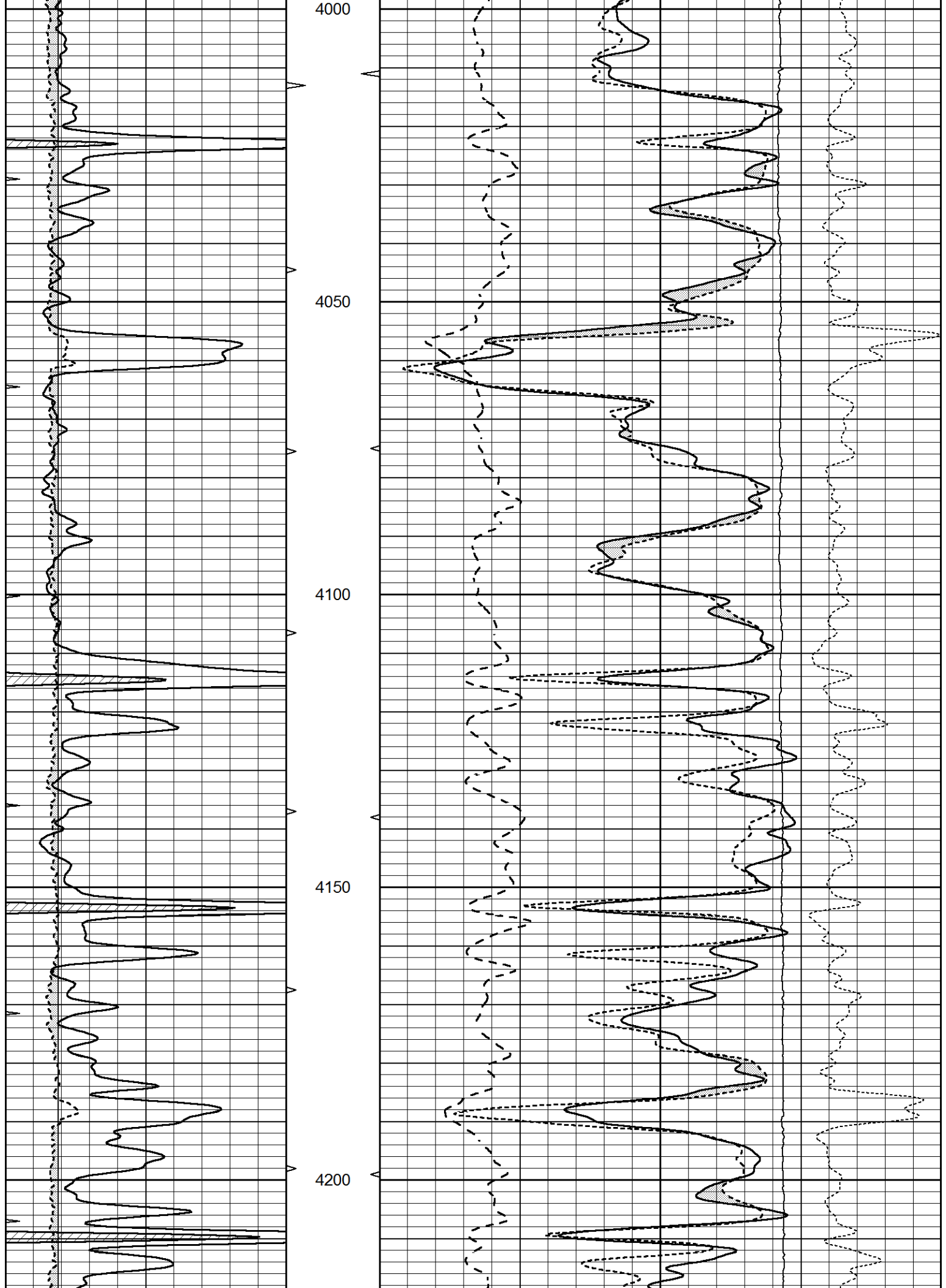
MAIN SECTION

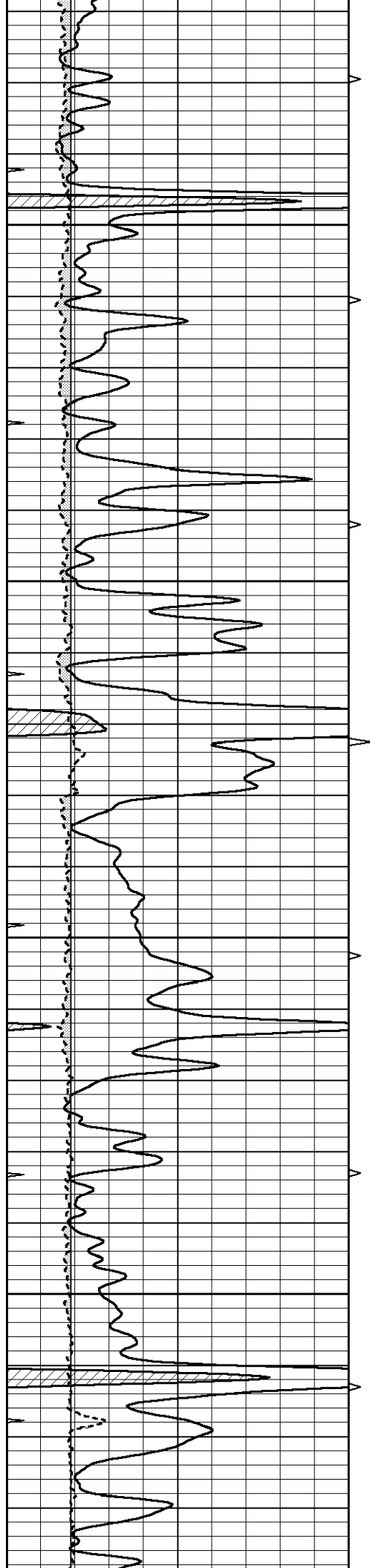
Database File	6326pe.db
Dataset Pathname	pass3.1M
Presentation Format	ldt_neu
Dataset Creation	Sun Apr 10 06:58:07 2022
Charted by	Depth in Feet scaled 1:240

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







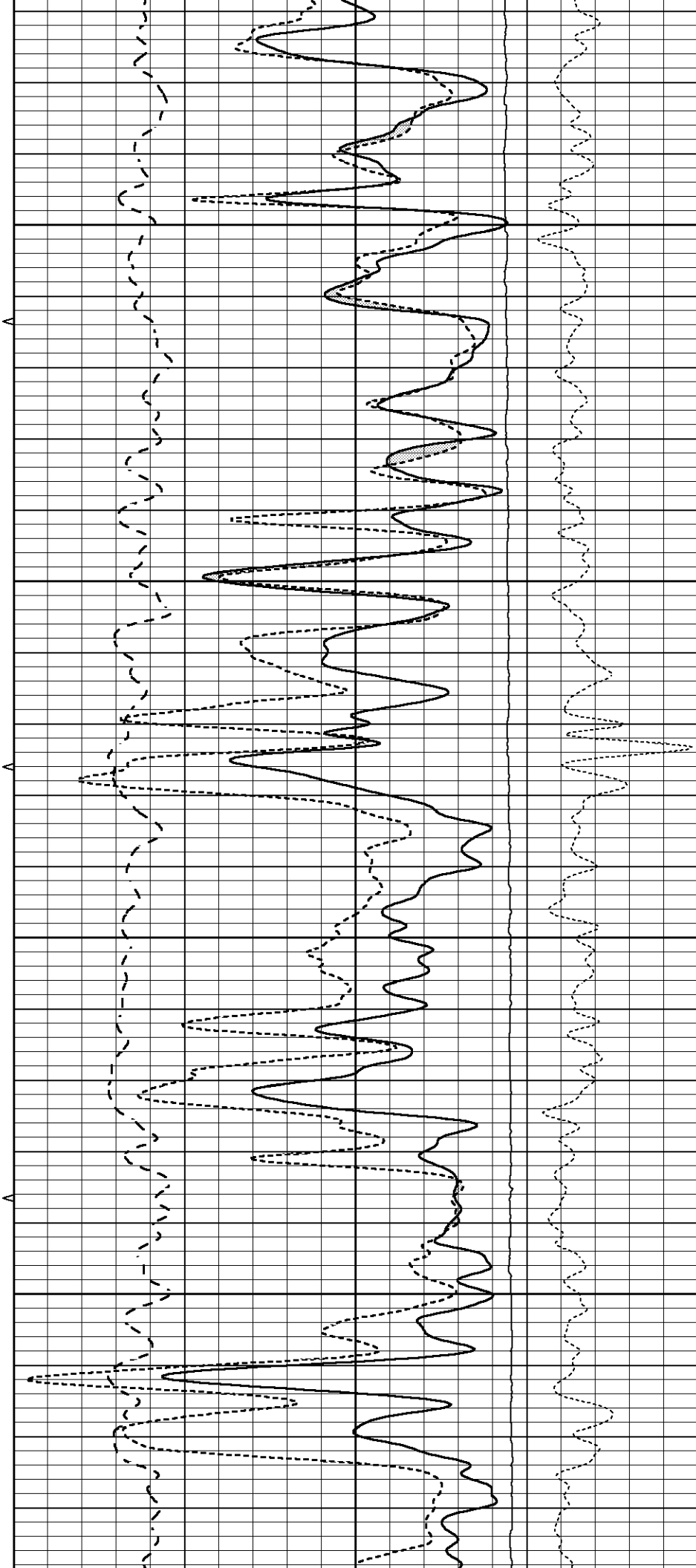


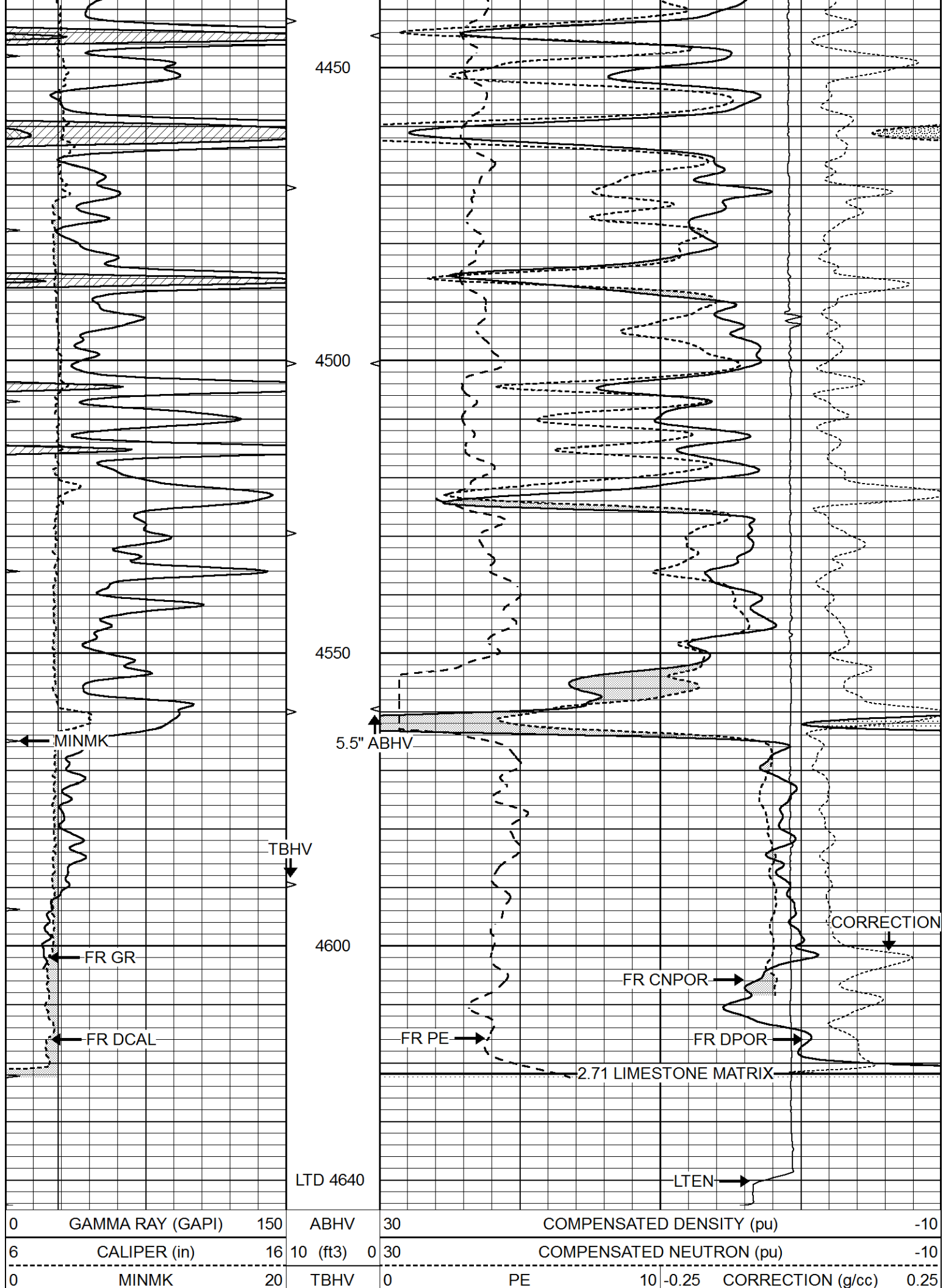
4250

4300

4350

4400





0 (ft3) 10

0

LTEN (lb)

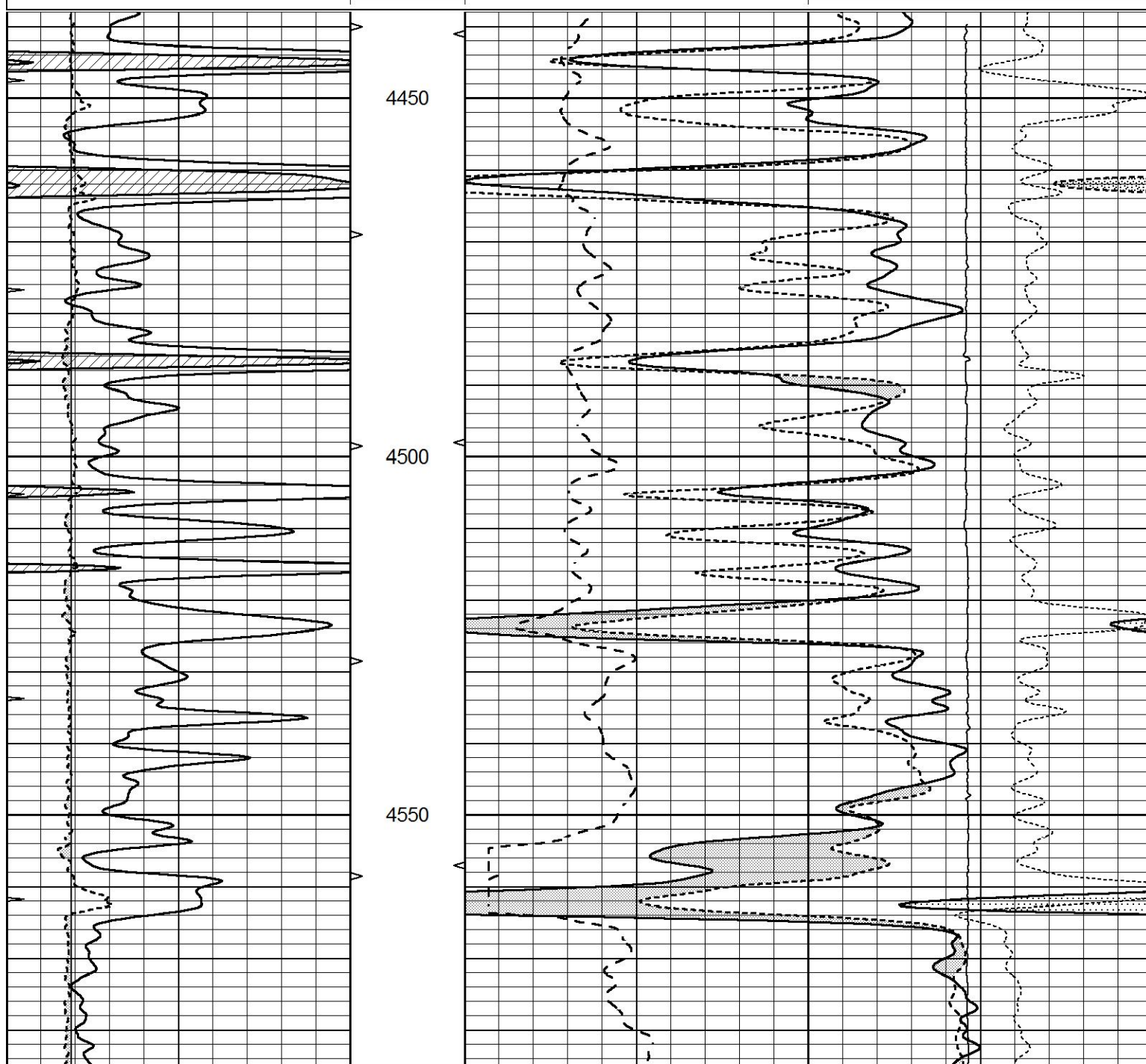
5000

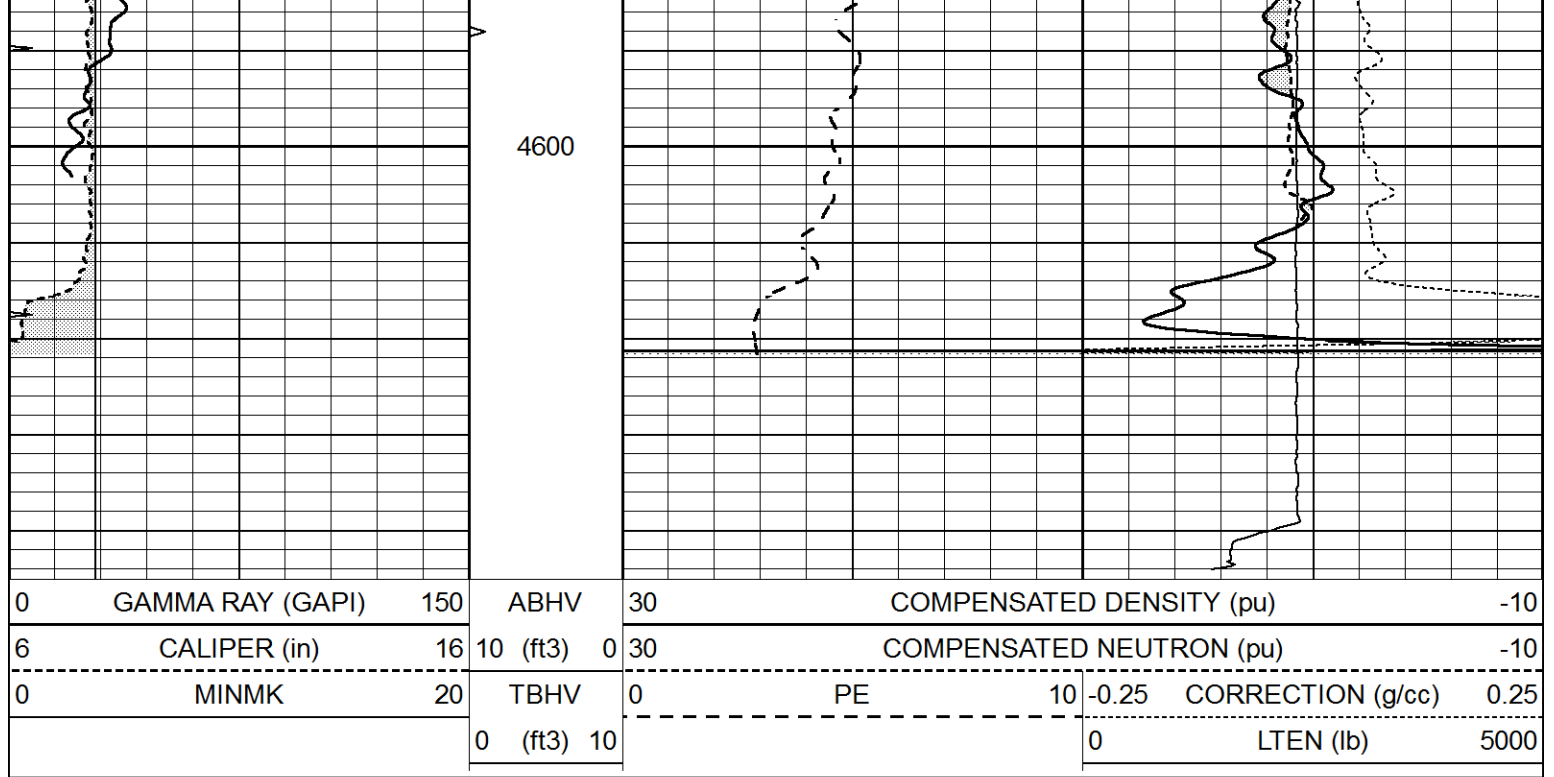


REPEAT SECTION

Database File 6326pe.db
Dataset Pathname pass2.3
Presentation Format ldt_neu
Dataset Creation Sun Apr 10 05:49:42 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 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10		0	LTEN (lb) 5000





Calibration Report									
Database File	6326pe.db								
Dataset Pathname	pass3.1M								
Dataset Creation	Sun Apr 10 06:58:07 2022								
Dual Induction Calibration Report									
Serial-Model:					PROBE9-DILG				
Surface Cal Performed:					Sun Apr 10 05:33:57 2022				
Downhole Cal Performed:					Wed Mar 11 11:31:19 2020				
After Survey Verification Performed:					Wed Mar 11 11:31:22 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	720.000	-12.000	
Medium	0.039	0.728	V	0.000	464.000	mmho/m	720.000	-12.000	
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: 002 Model: PRB

Master Calibration			Performed Mon May 11 12:00:22 2020					
	Background	Magnesium	Aluminum	Aluminum+Fe				
Window 1	787.5	10229.8	2775.7	2400.0			cps	
Window 2	729.6	8732.5	2418.3	2137.0			cps	
Window 3	603.0	4606.3	1428.3	1320.0			cps	
Window 4	173.7	178.2	174.1	173.1			cps	
Long Space	0.0	8002.9	1688.7	1407.4			cps	
Short Space	1.1	1870.8	1208.3	1030.3			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			: 0.545	
Spine Angle	: 74.3	Spine Slope	: 3.559	Spine Intercept			: -17.8	

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:	Tue Mar 22 20:25:25 2022		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	