



COMPENSATED DENSITY/NEUTRON PE LOG

Company NEC OPERATING - KANSAS, LLC.

Well BUSHWHACKER #1

Field GRIGSTON NORTHEAST

County SCOTT State KANSAS

Location: API #: 15-171-21317-0000

330' FNL & 1400' FEL
E/2 - NE - NW - NE

SEC 2 TWP 19S RGE 31W

Other Services
DIL/MEL

Permanent Datum GROUND LEVEL Elevation 2926
Log Measured From KELLY BUSHING 11' A.G.L.
Drilling Measured From KELLY BUSHING

Elevation
K.B. 2937
D.F. 2935
G.L. 2926

Date 3/2/24

Run Number ONE

Depth Driller 4700

Depth Logger 4700

Bottom Logged Interval 4676

Top Log Interval 3500

Casing Driller 8.675@352

Casing Logger 352

Bit Size 7.785

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity 9.2/60

pH / Fluid Loss 11.0/7.2

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.50@61F

Rmf @ Meas. Temp 1.13@61F

Rmc @ Meas. Temp 1.80@61F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .750@122F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 5.45 A.M.

Maximum Recorded Temperature 122F

Equipment Number 922339

Location HAYS, KANSAS

Recorded By JEFF LUEBBERS

Witnessed By KEATON JONES

<<< 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.

15-171-21317-0000

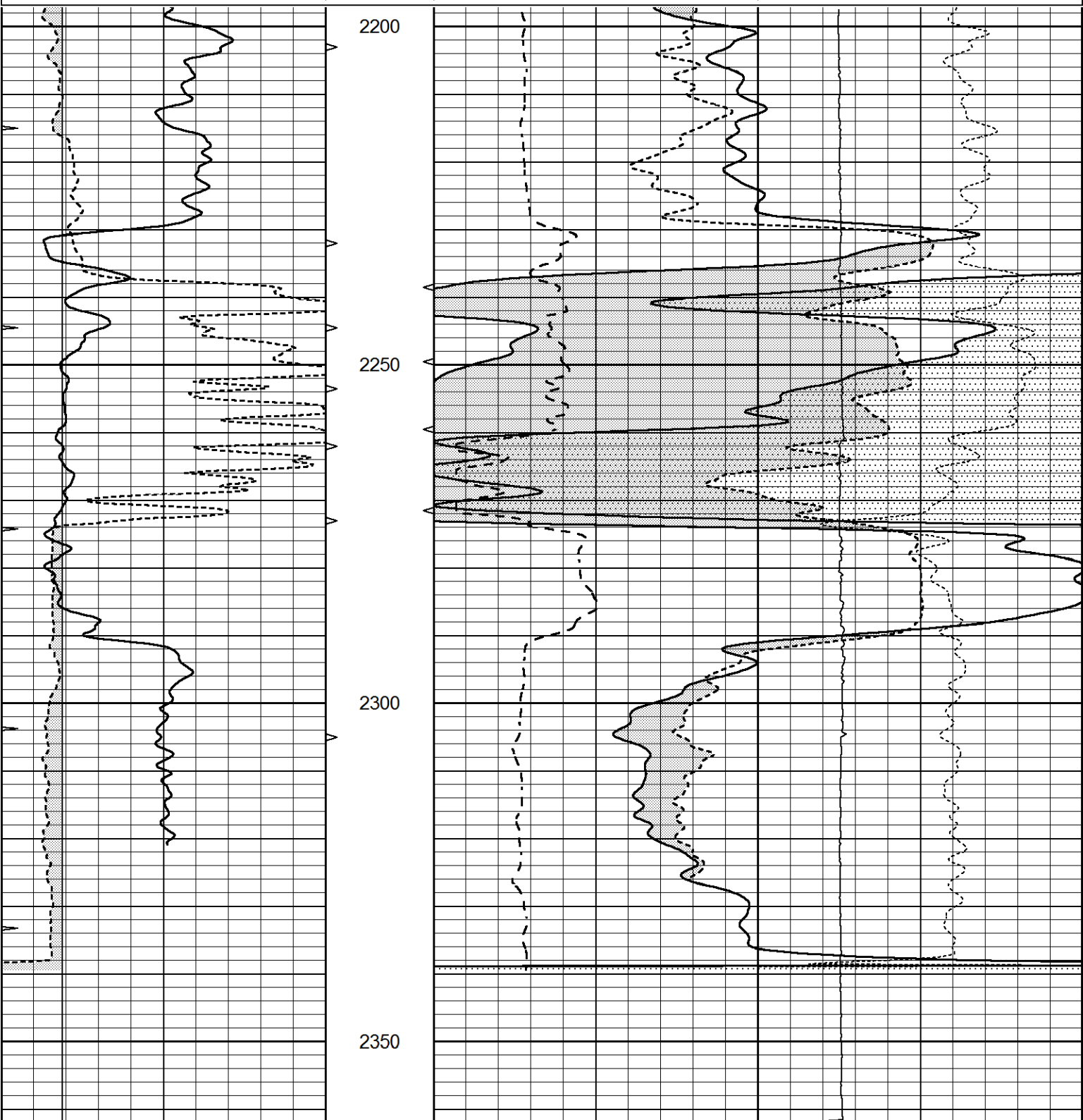
Comments

THANK YOU FOR USING ELI WIRELINE HAYS. KANSAS (785) 628-6395
DIRECTIONS
GRIGSTON, KS., W. ON HWY 96 TO "VENISON RD.", 3S., 3/4E., S. INTO



ANHYDRITE REPEAT

0	GAMMA RAY (GAPI)	150	ABHV	45	COMPENSATED DENSITY (pu)				-15
6	CALIPER (in)	16	10 (ft3) 0	45	COMPENSATED NEUTRON (pu)				-15
0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25
			0 (ft3) 10				0	LTEN (lb)	5000



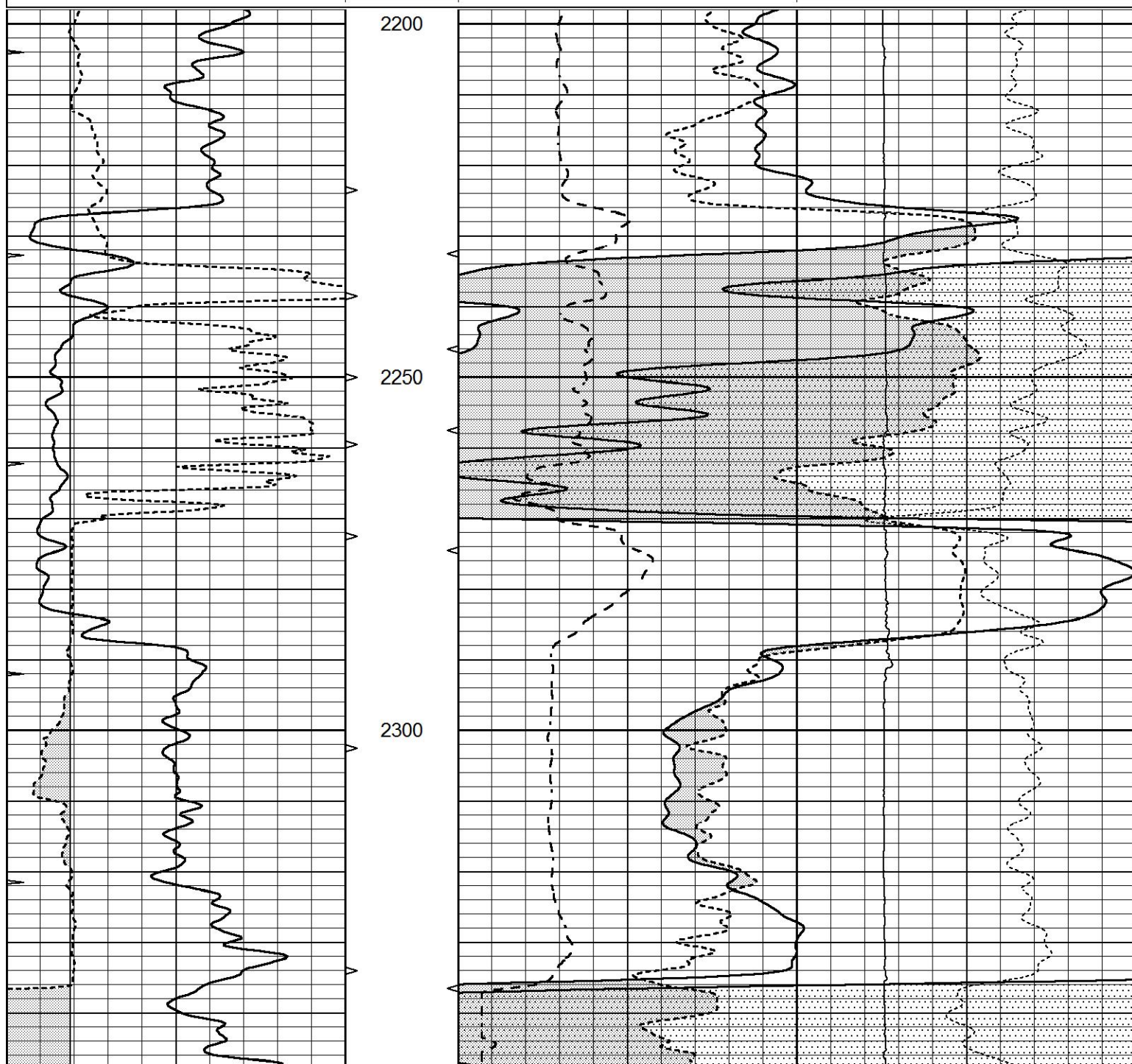
0	GAMMA RAY (GAPI)	150	ABHV	45	COMPENSATED DENSITY (pu)				-15
6	CALIPER (in)	16	10 (ft3) 0	45	COMPENSATED NEUTRON (pu)				-15
0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25



ANHYDRITE

Database File 8417pe.db
Dataset Pathname pass4.1A
Presentation Format ldt_neu
Dataset Creation Sat Mar 02 07:15:49 2024
Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	45	COMPENSATED DENSITY (pu)	-15
6	CALIPER (in)	16	10 (ft3) 0	45	COMPENSATED NEUTRON (pu)	-15
0	MINMK	20	TBHV	0	PE	10
			0 (ft3) 10		-0.25	CORRECTION (g/cc) 0.25
					0	LTEN (lb) 5000



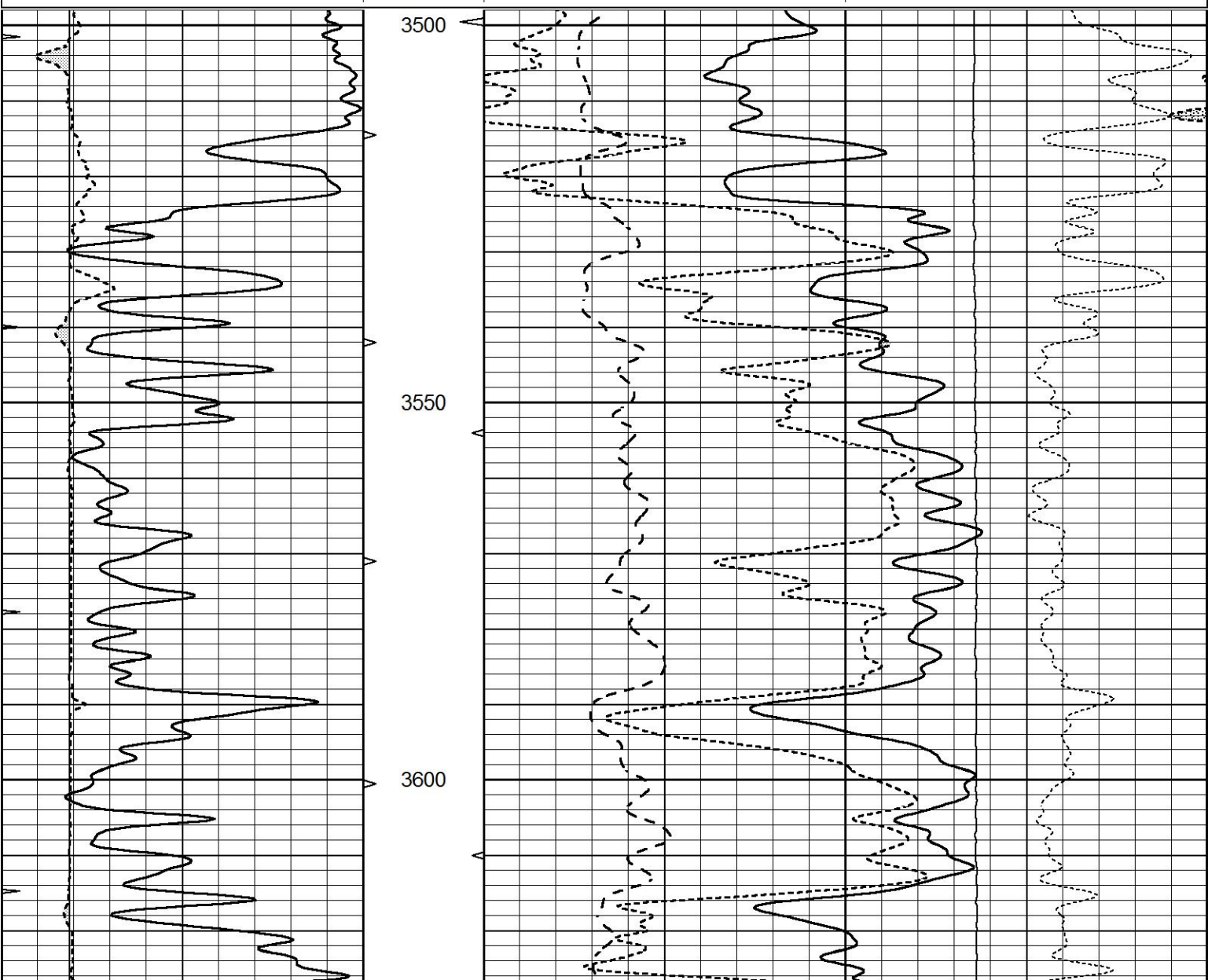
			2350					
0	GAMMA RAY (GAPI)	150	ABHV	45	COMPENSATED DENSITY (pu)			-15
6	CALIPER (in)	16	10 (ft3) 0	45	COMPENSATED NEUTRON (pu)			-15
0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc) 0.25
			0 (ft3) 10				0	LTEN (lb) 5000

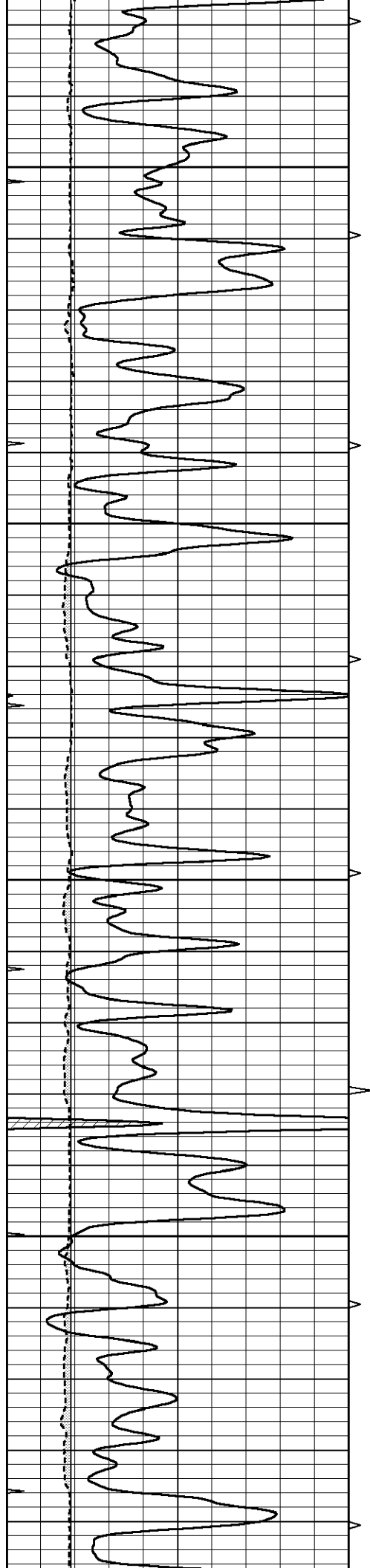


MAIN SECTION

Database File	8417pe.db
Dataset Pathname	pass4.1M
Presentation Format	_ldt_neu
Dataset Creation	Sat Mar 02 07:39:35 2024
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



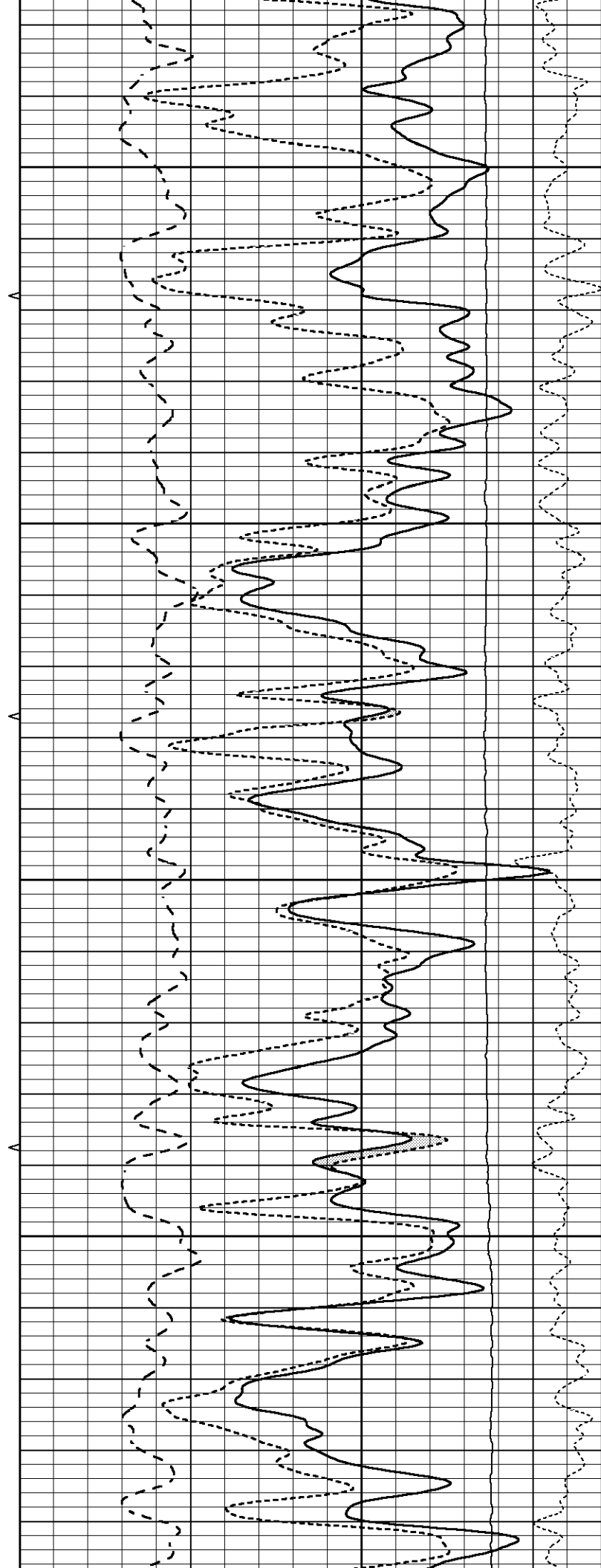


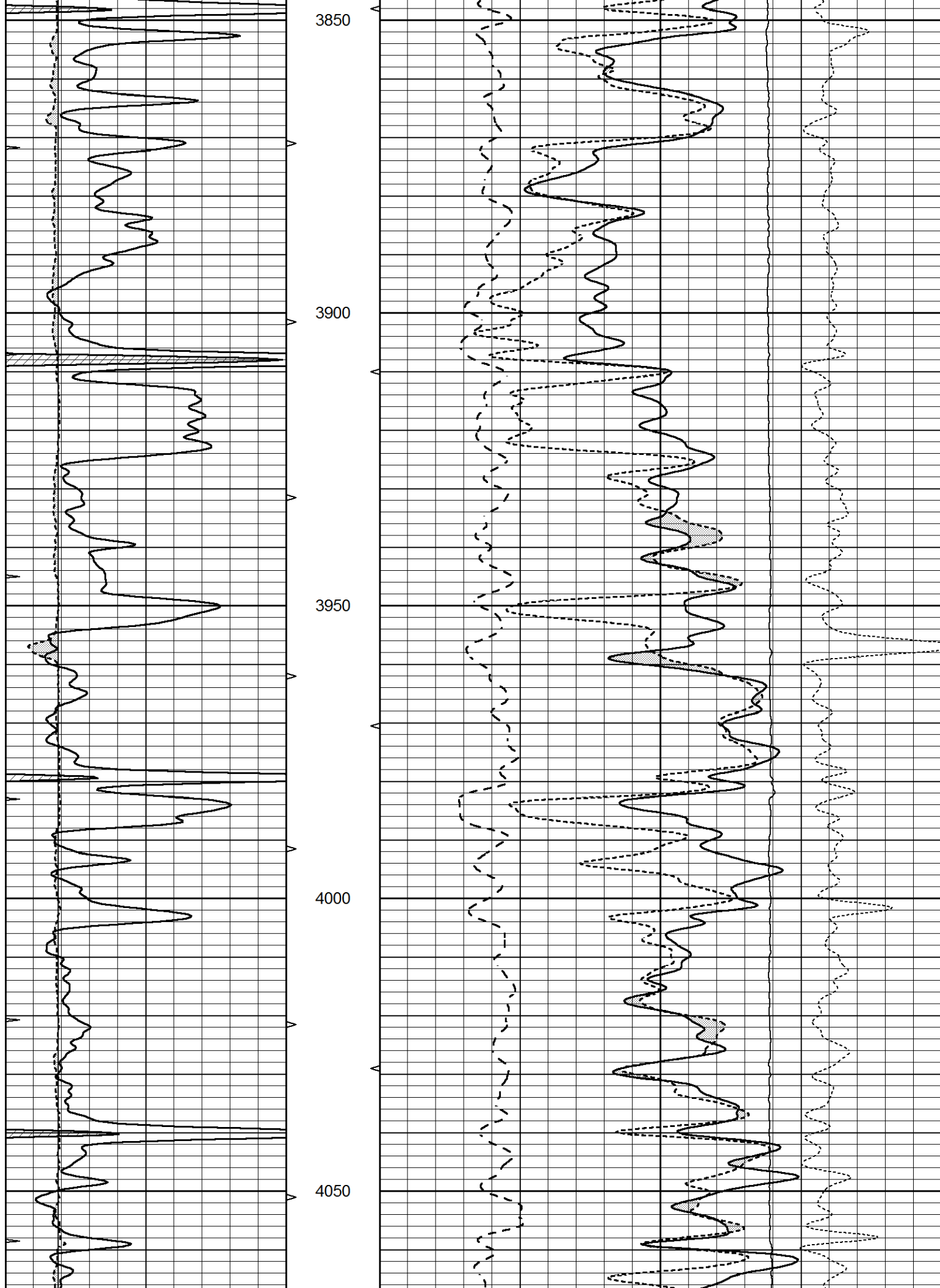
3650

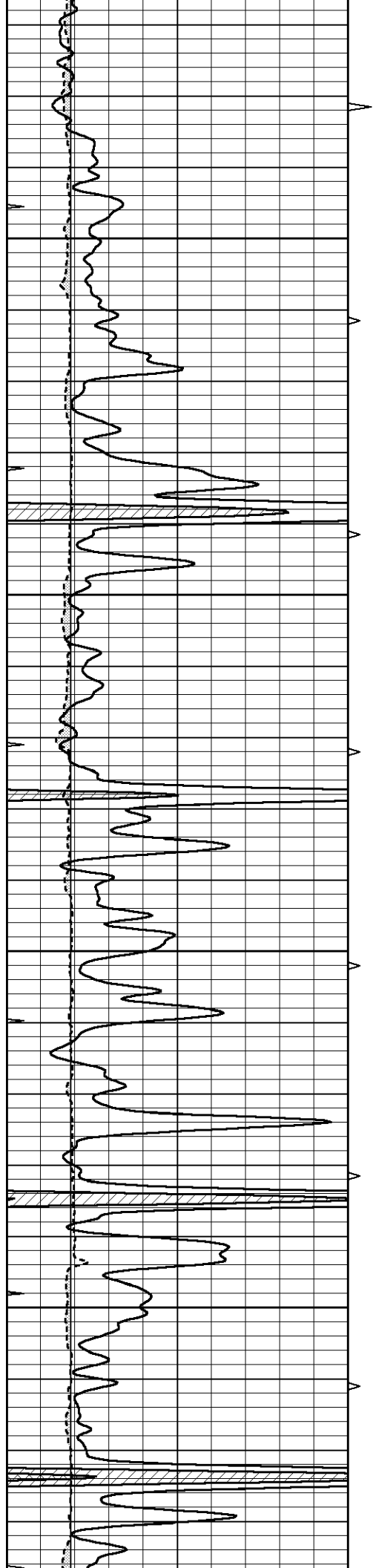
3700

3750

3800





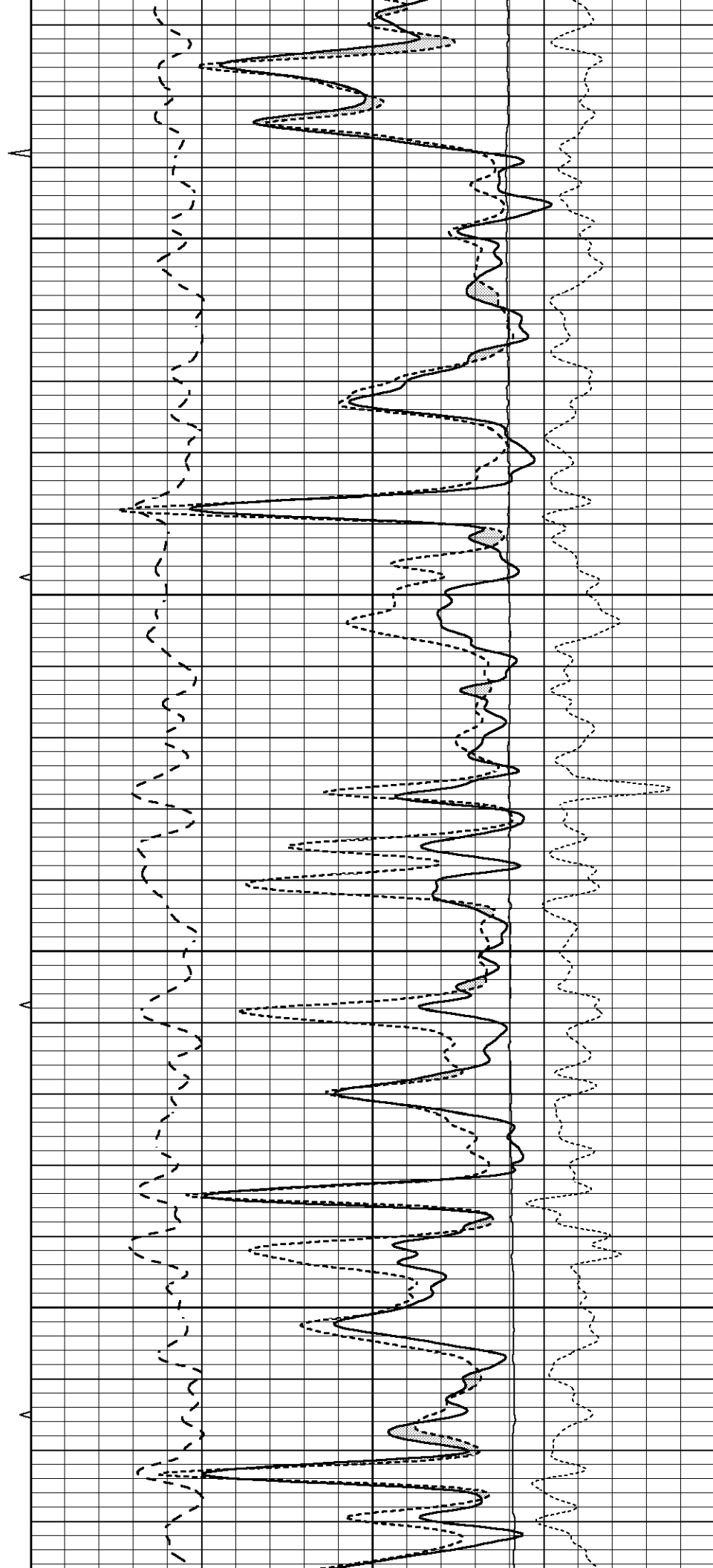


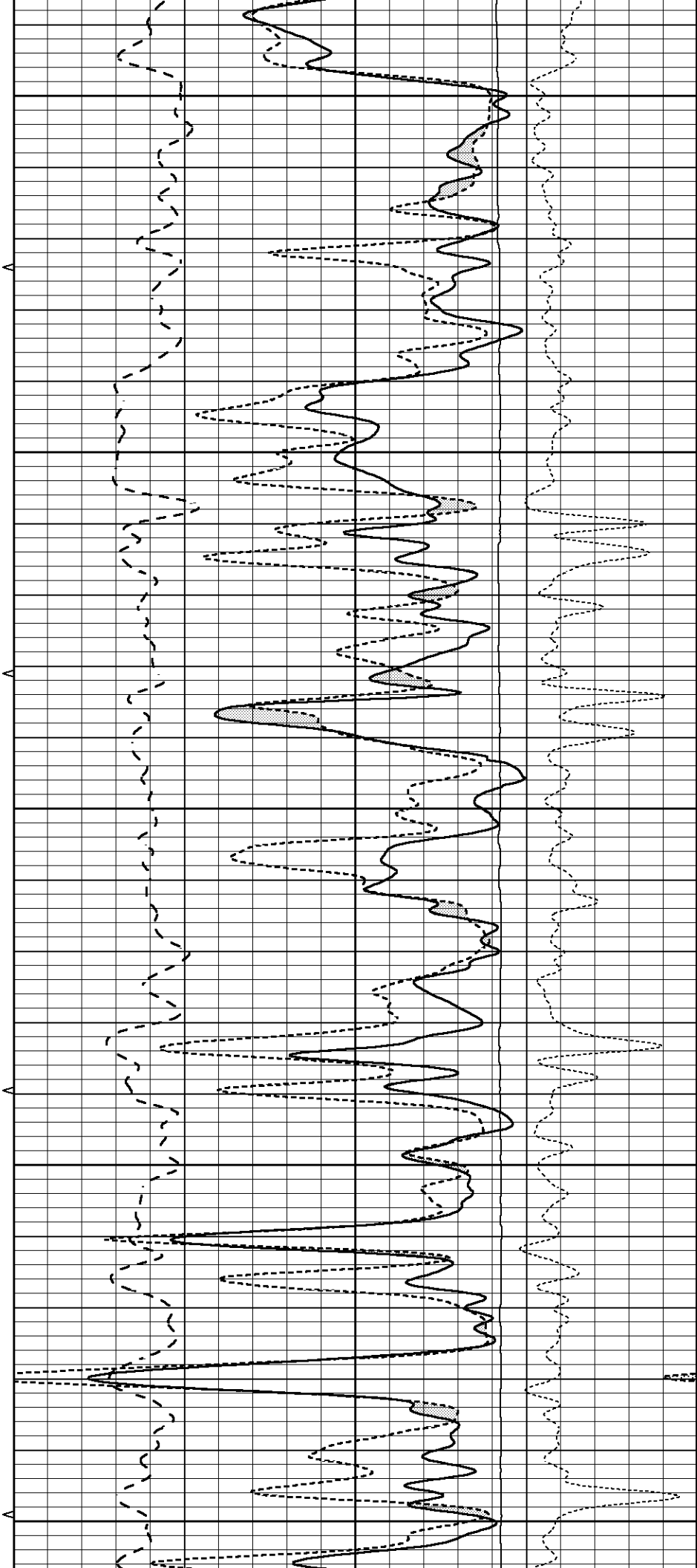
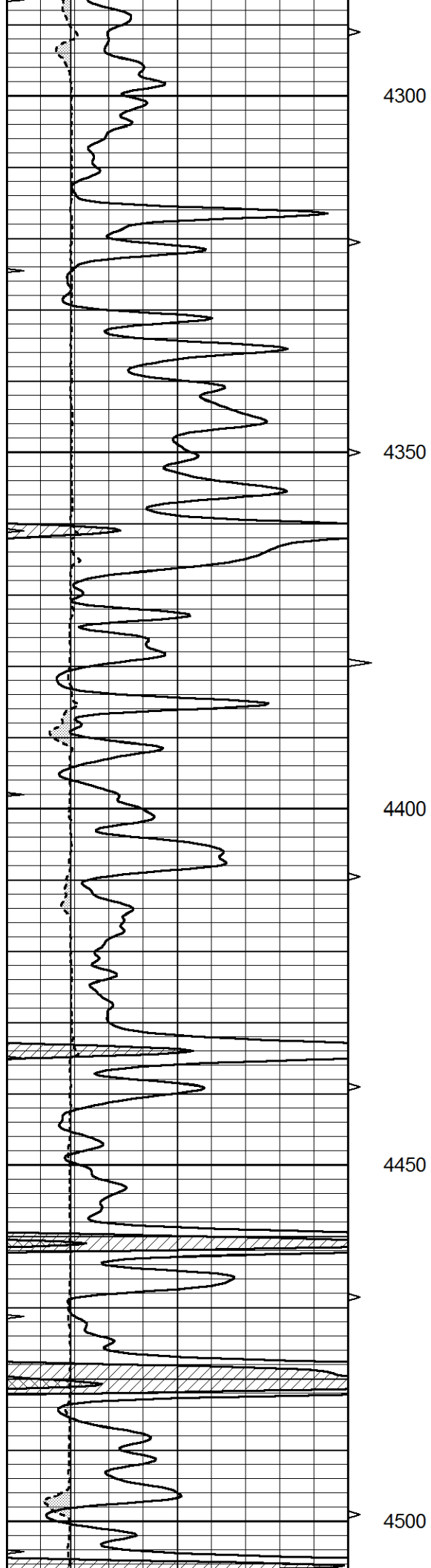
4100

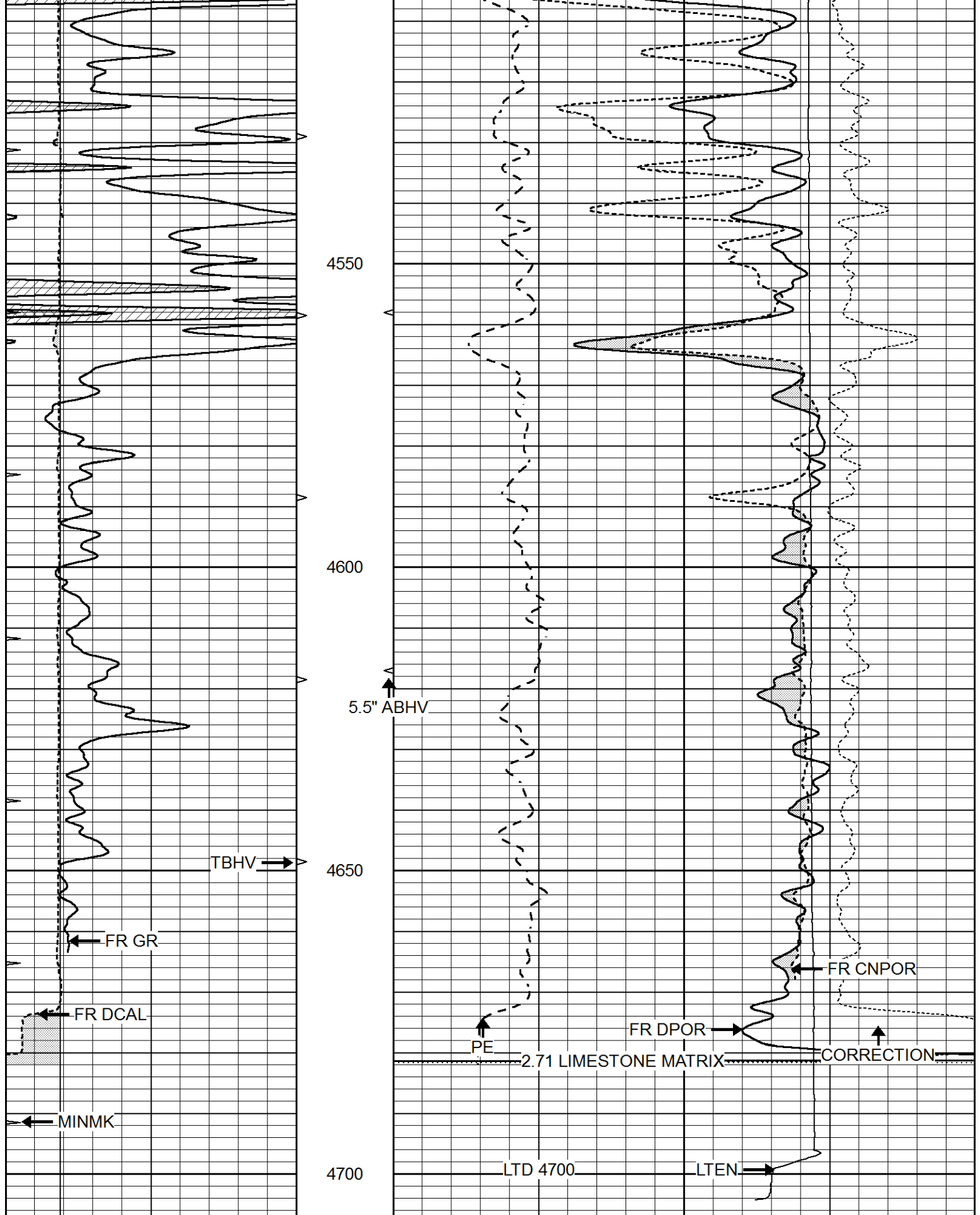
4150

4200

4250







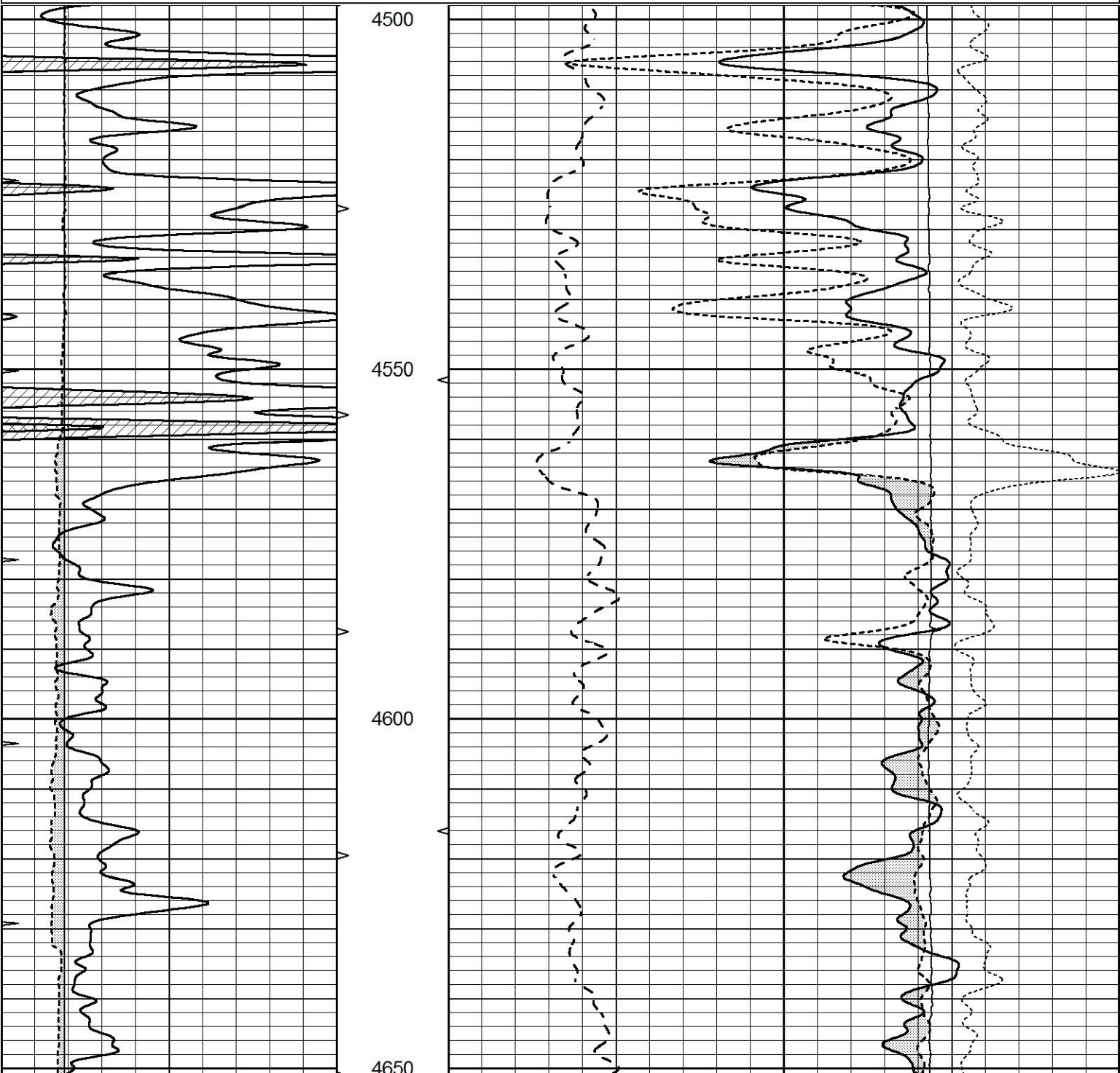
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)				-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)				-10
0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10			0	LTEN (lb)	5000	

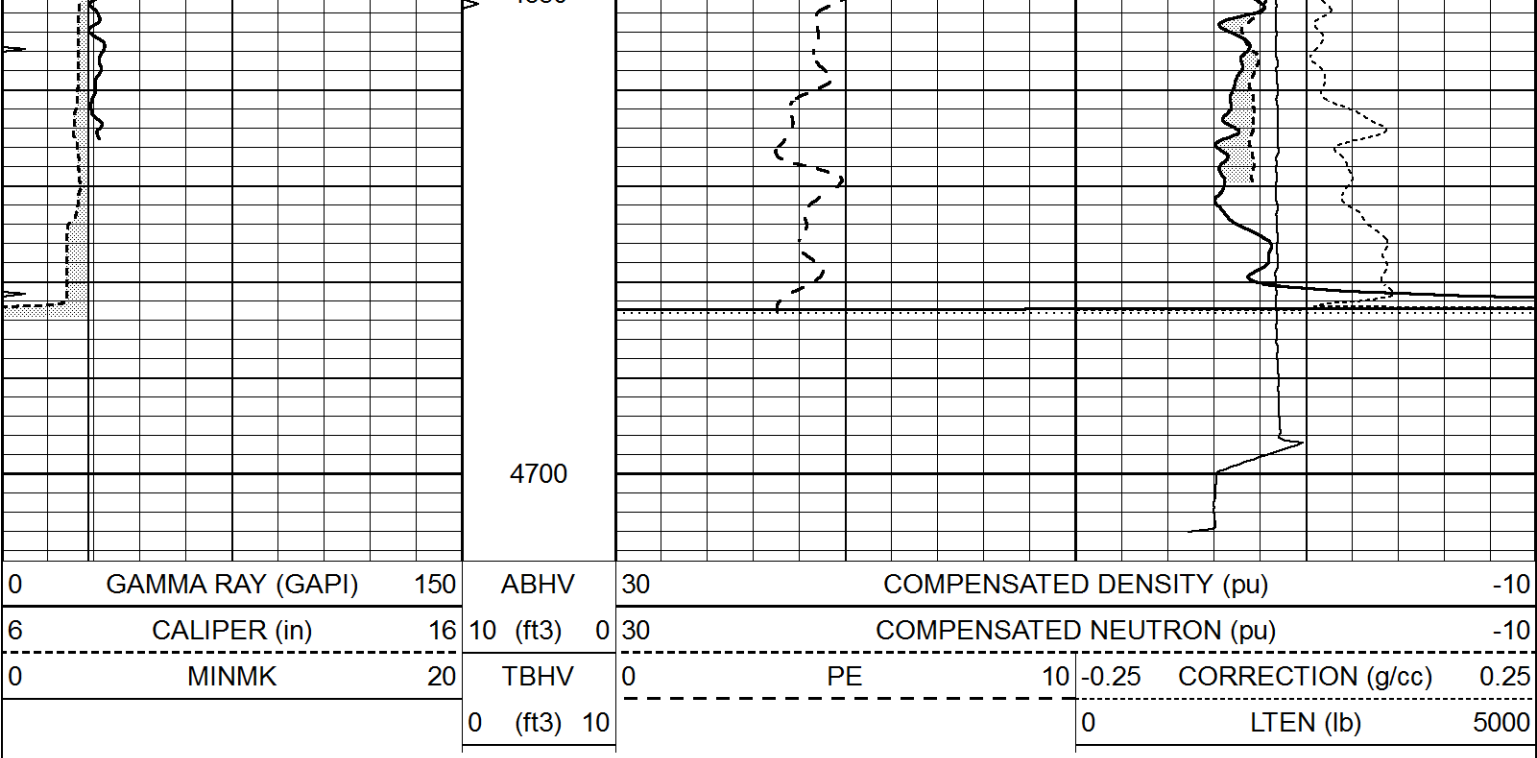


REPEAT SECTION

Database File 8417pe.db
Dataset Pathname pass3.2R
Presentation Format _ldt_neu
Dataset Creation Sat Mar 02 07:23:59 2024
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	8417pe.db	
Dataset Pathname	pass4.1M	
Dataset Creation	Sat Mar 02 07:39:35 2024	

Dual Induction Calibration Report

Serial-Model:	PROBE8-DILG
Surface Cal Performed:	Sat Mar 02 06:40:29 2024
Downhole Cal Performed:	Mon Aug 14 00:39:25 2023
After Survey Verification Performed:	Mon Jul 28 11:08:27 2008

Surface Calibration			Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b		
Deep	0.015	0.648	V	0.000	400.000	mmho/m	660.000	14.000		
Medium	0.029	0.796	V	0.000	464.000	mmho/m	650.000	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		

LL3	0.000	0.000	mmho-m	0.000	0.000	mmho-m	0.000	0.000
Medium		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 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			
--------------------------	--	--	--

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 Dec 20 03:59:02 2023		
Calibrator Value:		1.0	GAPI	
Background Reading:		0.0	cps	
Calibrator Reading:		1.0	cps	
Sensitivity:		0.3000	GAPI/cps	