



COMPENSATED DENSITY / NEUTRON LOG

Company		FOUR WINDS OIL CORPORATION	
Well		GLENNEMEIER "A" #4	
Field		WEST UNION	
County		NORTON	
State		KANSAS	
Location:		API # : 15-137-20768-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 8' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 21 TWP 5S RGE 21W		Elevation	
350' FSL & 660' FEL		K.B. 2240	
N/2 - S/2 - SE - SE		D.F. 2238	
10/1/23		G.L. 2232	
ONE			
3675			
3676			
3652			
3100			
8 5/8"@222'			
224			
7 7/8"			
CHEMICAL MUD		CHLORIDES 3,000 PPM	
9.1/64			
10.5/8.2			
FLOWLINE			
1.10@67F			
.825@67F			
1.32@67F			
MEASUREMENT			
.652@113F			
2 HOURS			
5:00 A.M.			
113F			
922339			
HAYS, KANSAS			
JEFF LUEBBERS			
CAMERON BRIN			

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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.

15-137-20768-0000

Comments

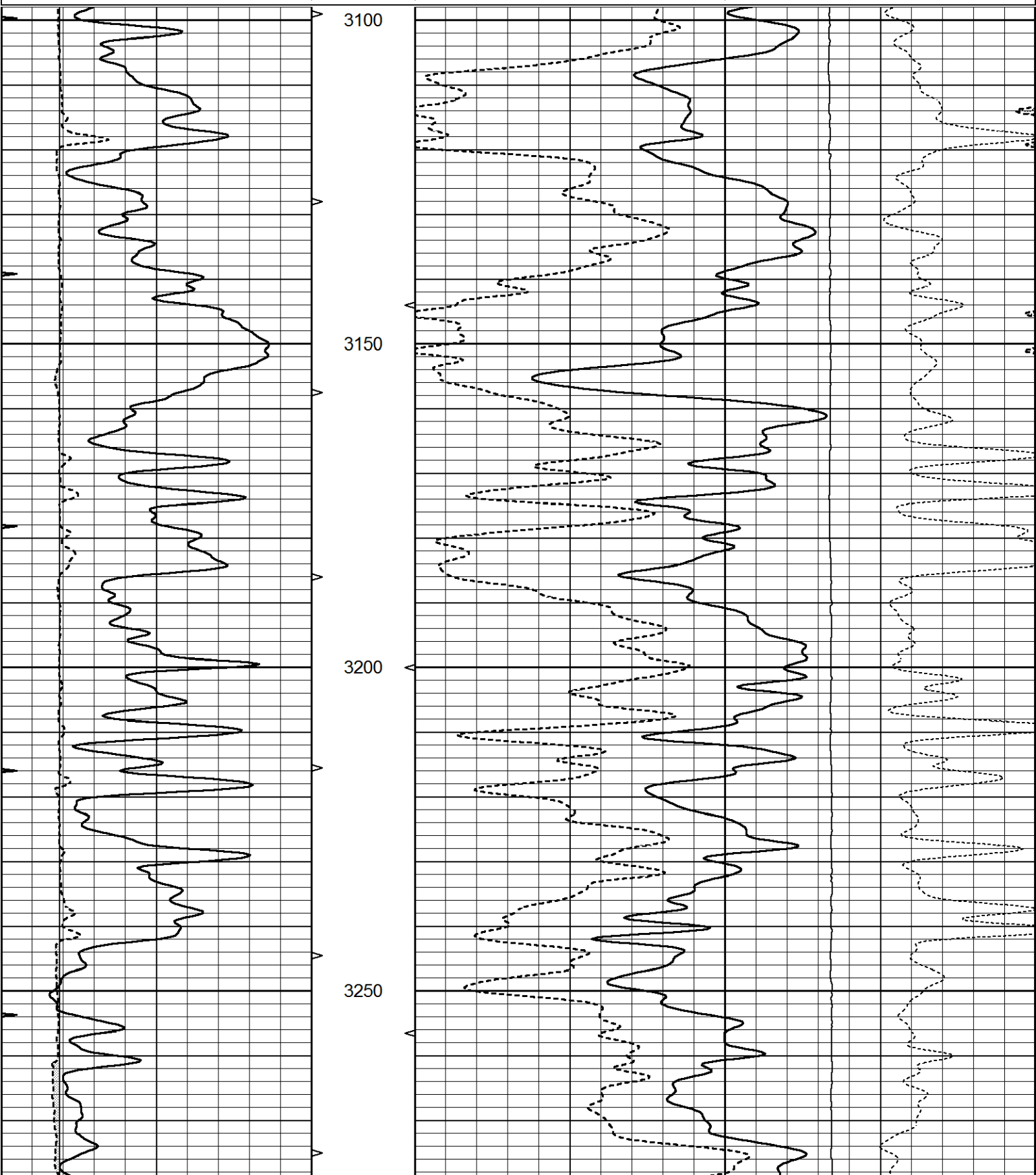
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
GLADE, KS., 19W. ON HWY 9 TO "RD. 12", 1 1/2S. TO "RD. Z", 1W., 3S., W. INTO

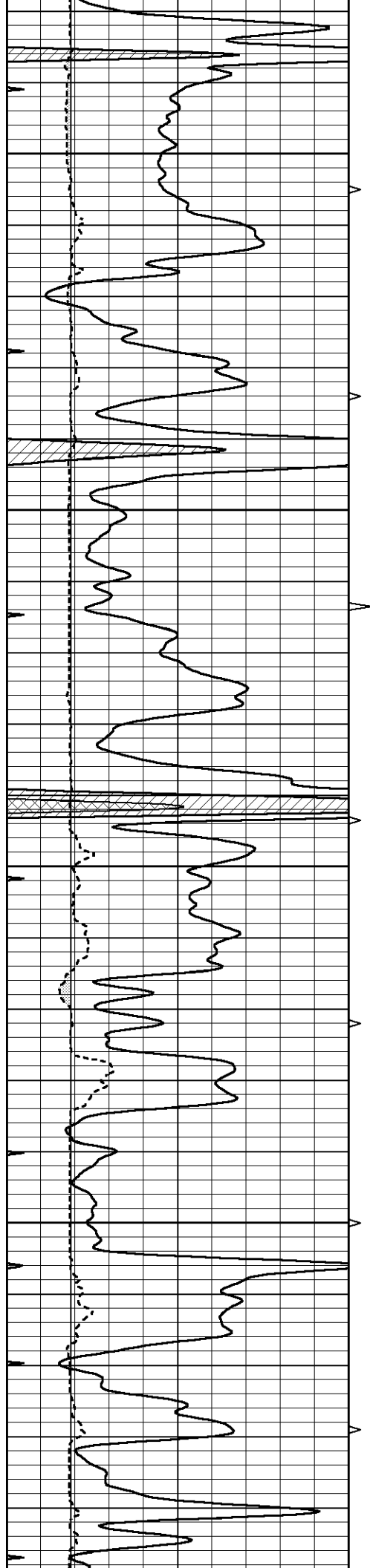


MAIN SECTION

Database File	8218ddn.db
Dataset Pathname	pass3.1M
Presentation Format	_den_neu
Dataset Creation	Sun Oct 01 06:40:32 2023
Charted by	Depth in Feet scaled 1:240

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



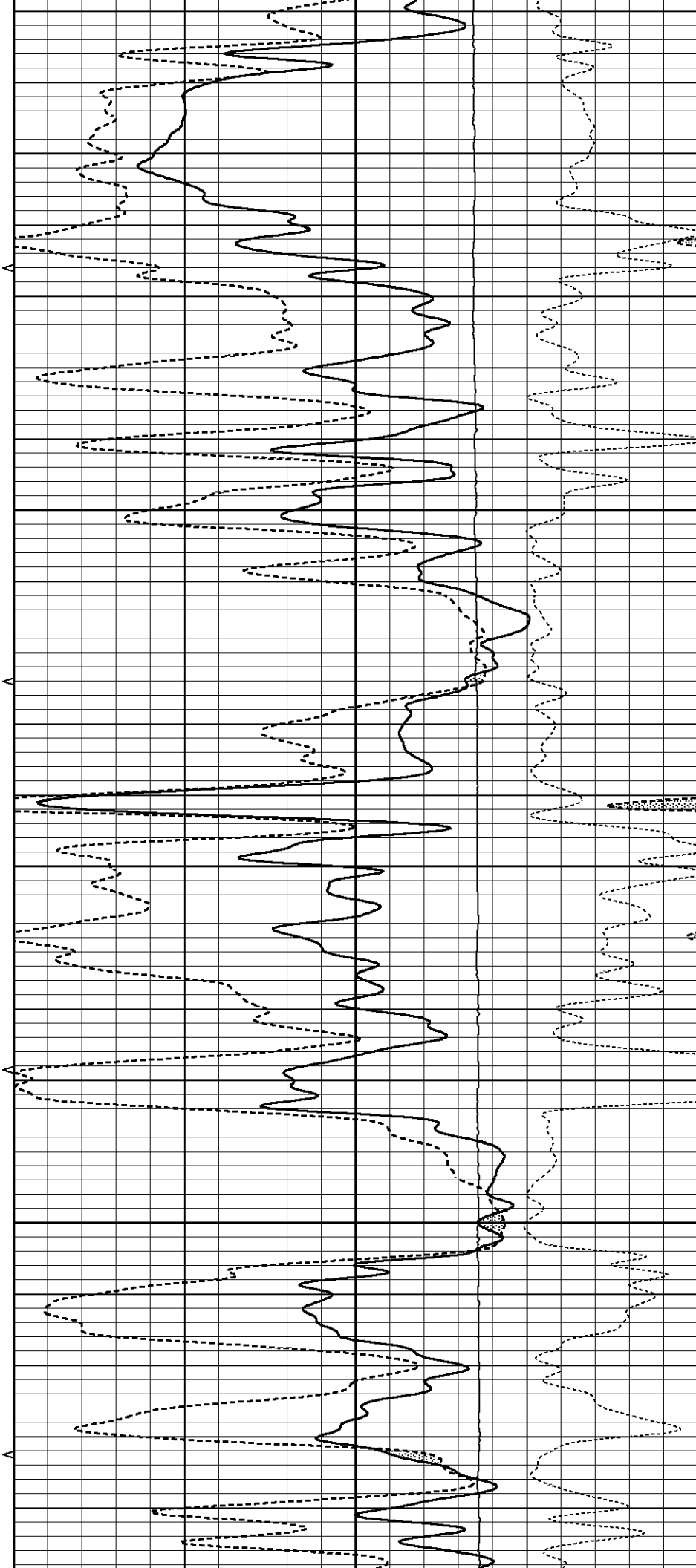


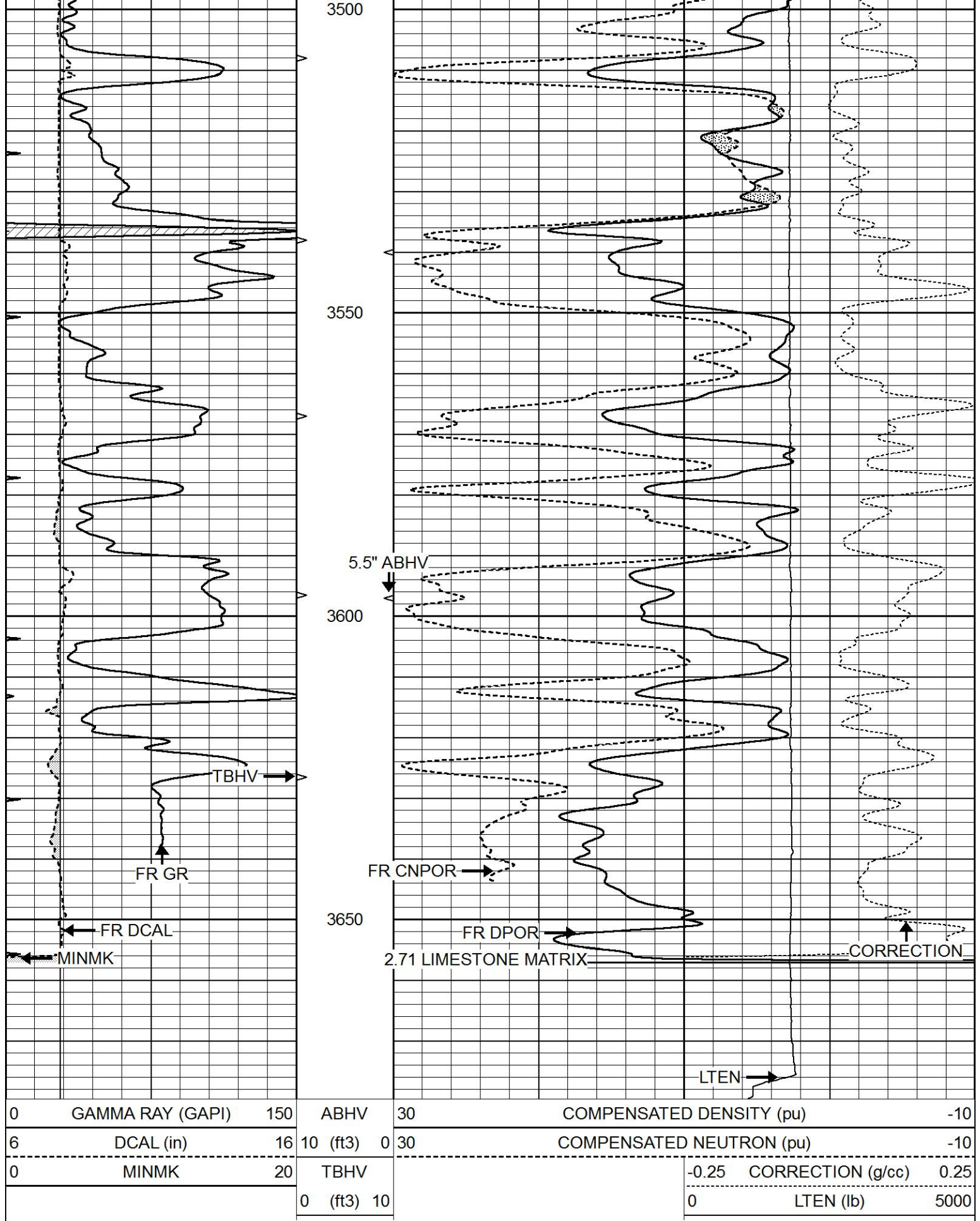
3300

3350

3400

3450

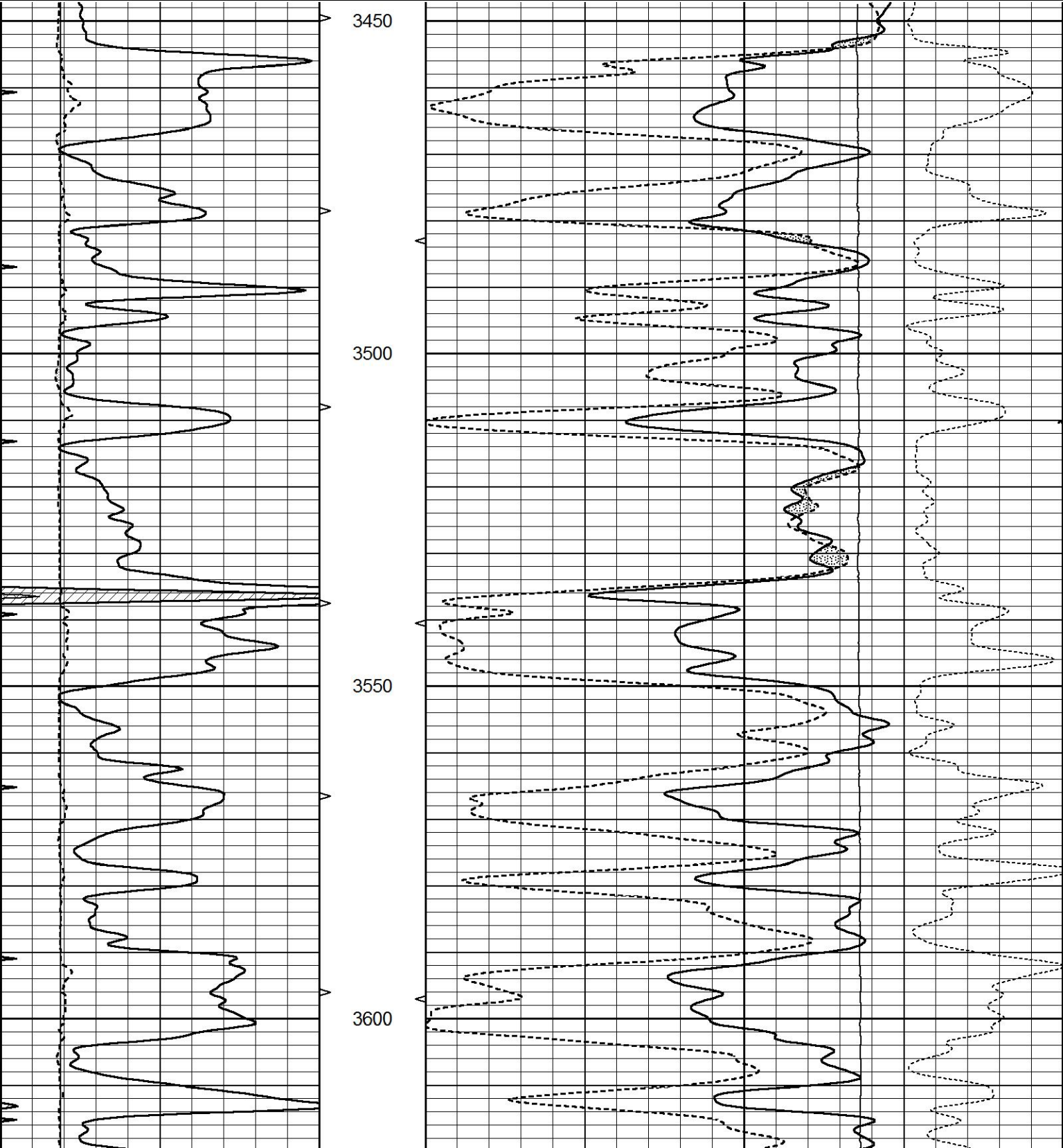


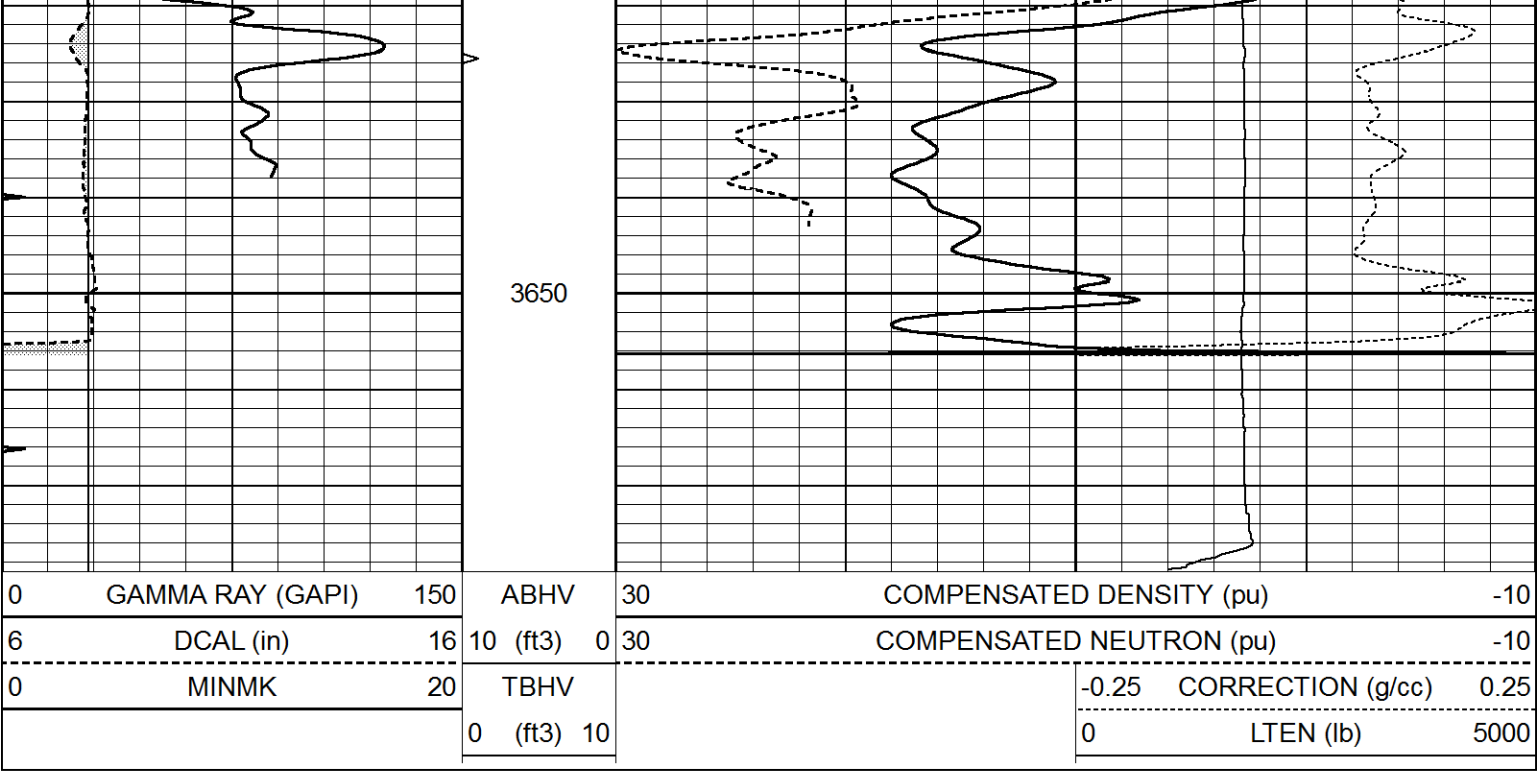


REPEAT SECTION

Database File 8218ddn.db
Dataset Pathname pass2.1R
Presentation Format _den_neu
Dataset Creation Sun Oct 01 06:48:52 2023
Charted by Depth in Feet scaled 1:240

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





Calibration Report		
Database File	8218ddn.db	
Dataset Pathname	pass3.1M	
Dataset Creation	Sun Oct 01 06:40:32 2023	

Dual Induction Calibration Report		
Serial-Model:	PROBE8-DILG	
Surface Cal Performed:	Sat Sep 30 06:29:24 2023	
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	-8.000
Medium	0.029	0.796	V	0.000	464.000	mmho/m	620.000	-20.000
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

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 Tue Aug 02 15:13:46 2022					
	Background		Magnesium		Aluminum		Aluminum+Fe	
Window 1	756.0		9803.2		2626.7		2317.1	cps
Window 2	695.1		8255.1		2265.2		2043.1	cps
Window 3	550.8		3929.2		1238.3		1173.3	cps
Window 4	165.8		166.7		163.3		164.0	cps
Long Space	0.0		7560.0		1570.1		1348.0	cps
Short Space	1.7		1555.8		1144.9		997.1	cps
Rho			1.7100		2.5900		0.0000	g/cc
Pe			2.0000		2.7500		5.7900	
Rib Angle	: 49.0		Rib Slope	: 1.149	Density/Spine Ratio		: 0.550	
Spine Angle	: 79.0		Spine Slope	: 5.125	Spine Intercept		: -28.7	

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:	070807PMC
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:	Sun Sep 17 12:49:32 2023		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.3000	GAPI/cps	