

COMPENSATED DENSITY/NEUTRON LOG

Company C & G DRILLING, INC.

Well JOSEPH A #2

Field PLUM GROVE NORTHWEST

County BUTLER State KANSAS

Location: API #: 15-015-24231-0000

2310 FNL & 2310 FWL
SE - SE - NW

SEC 14 TWP 24S RGE 4E

Permanent Datum GROUND LEVEL Elevation 1402
Log Measured From KELLY BUSHING 9' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL

Elevation
K.B. 1411
D.F. 1409
G.L. 1402

Date 5/22/24

Run Number ONE

Depth Driller 2590

Depth Logger 2587

Bottom Logged Interval 2563

Top Log Interval 1700

Casing Driller 8.625 @ 208

Casing Logger 208

Bit Size 7.875

Type Fluid in Hole CHEMICAL MUD

Density / Viscosity N/A

pH / Fluid Loss N/A

Source of Sample FLOWLINE

Rm @ Meas. Temp 1.80 @ 76F

Rmf @ Meas. Temp 1.35 @ 76F

Rmc @ Meas. Temp 2.16 @ 76F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT 1.33 @ 103F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom 5.30 P.M.

Maximum Recorded Temperature 103F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By COLE ROBEN

Witnessed By BRANDON WOLFE

<<< 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.

Comments

THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395

DIRECTIONS:

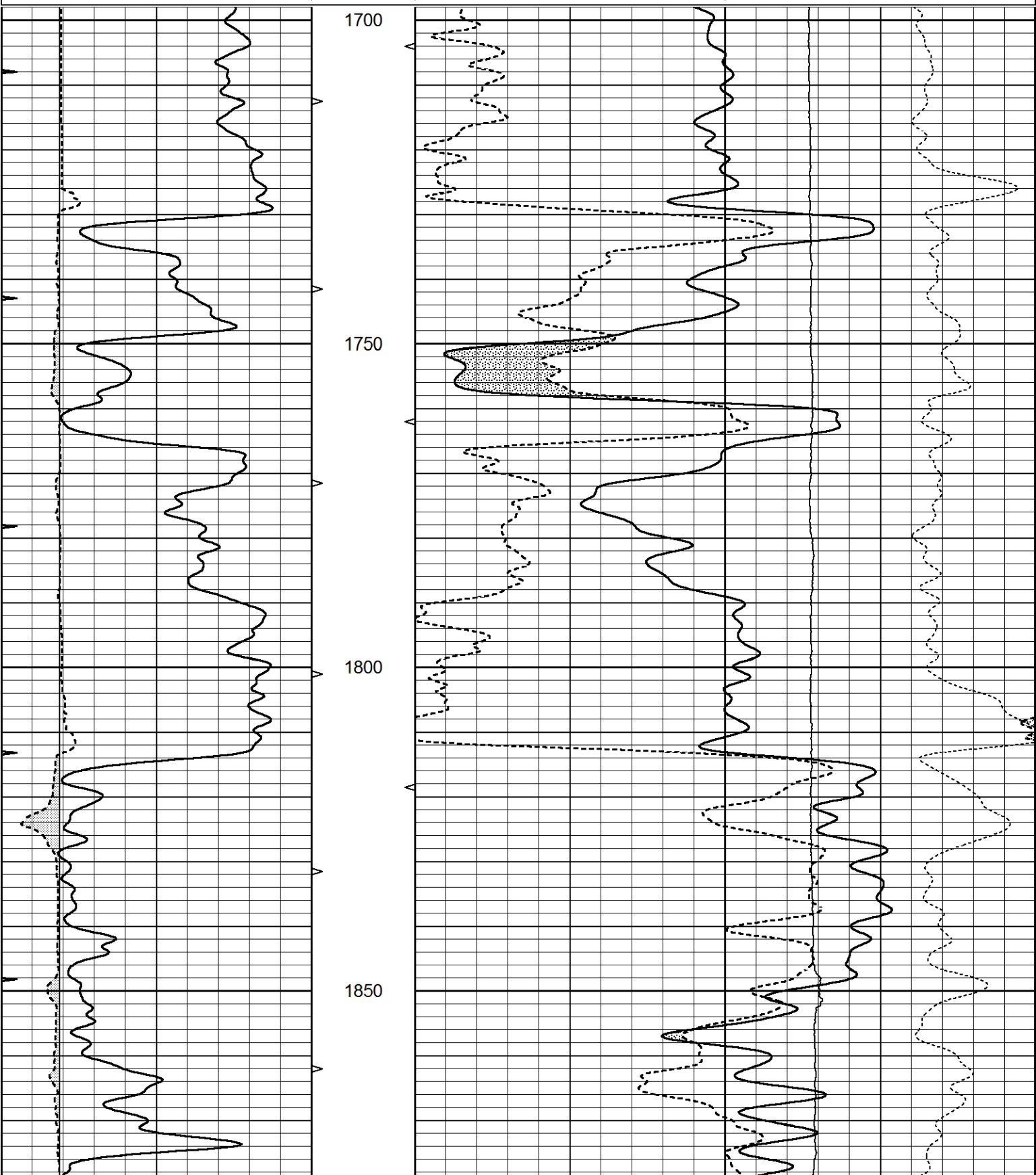
FROM POTWIN, KANSAS EAST ONE MILE TO NW RIVER VALLEY ROAD, NORTH 2.5 MILES TO NW 100TH STREET, 4 3/4 MILES EAST, SOUTH INTO

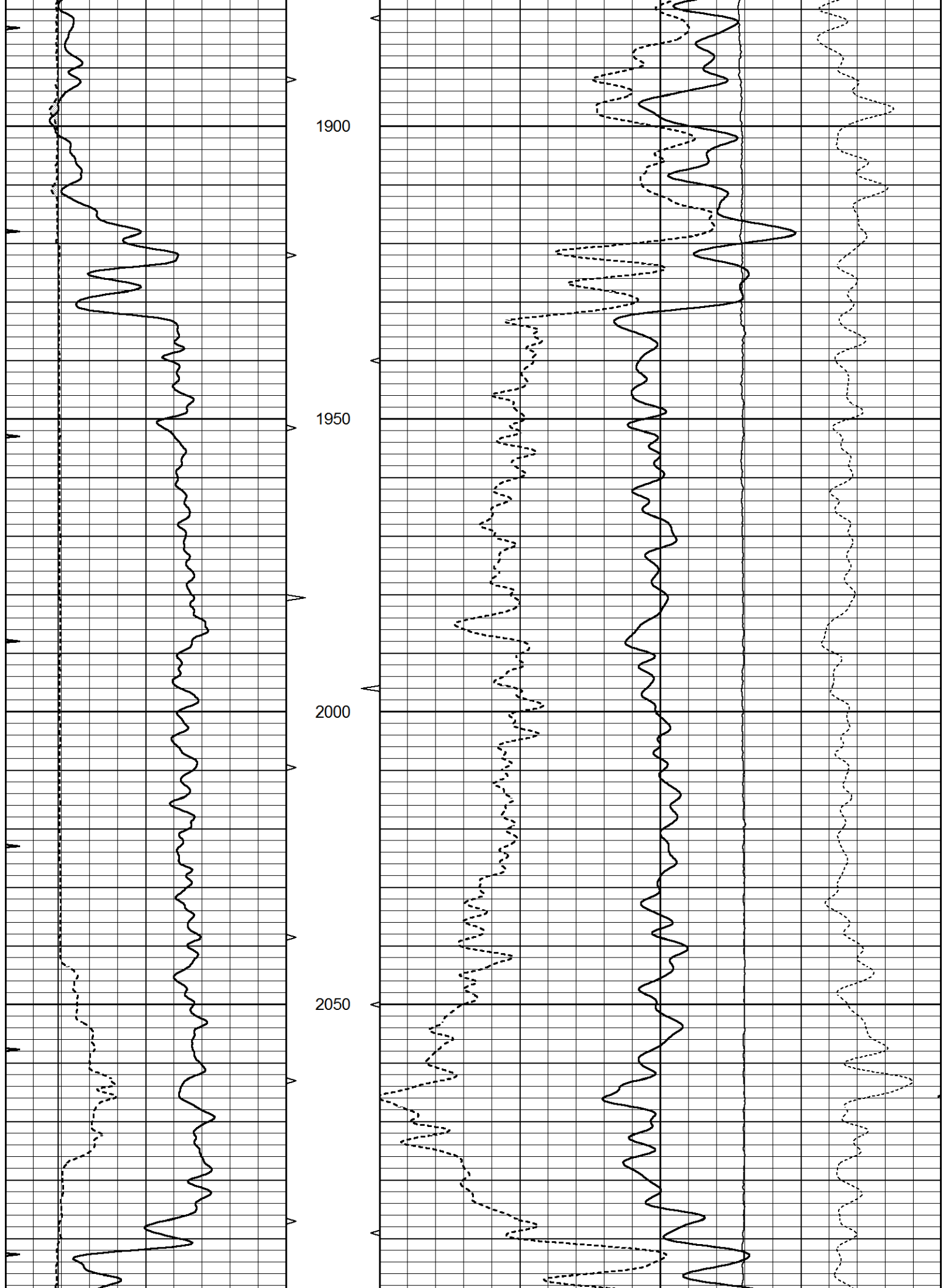


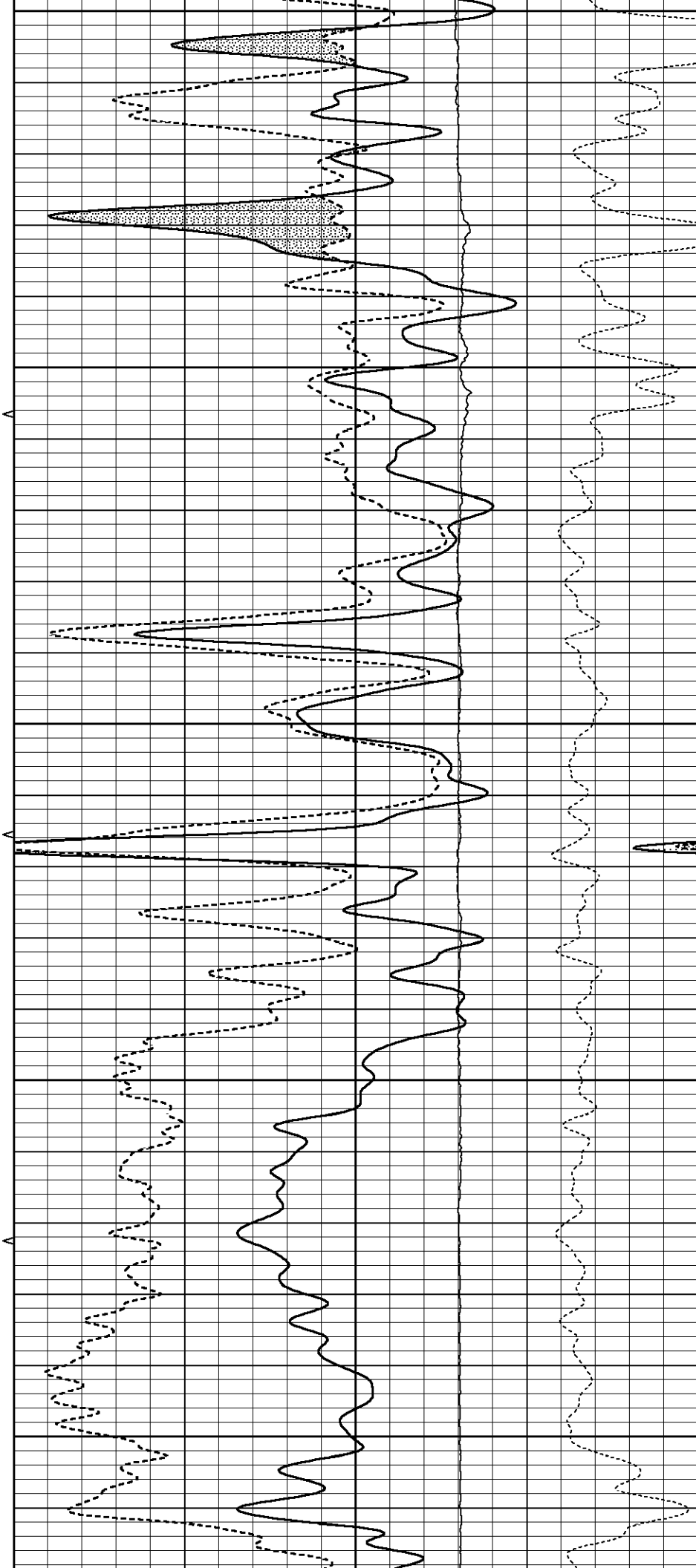
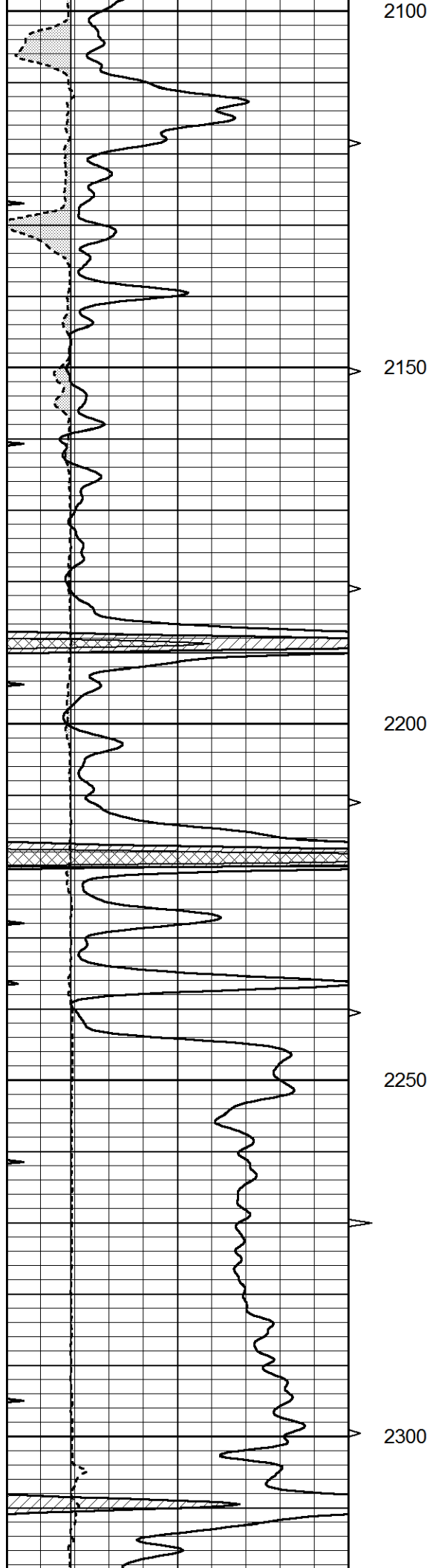
MAIN SECTION

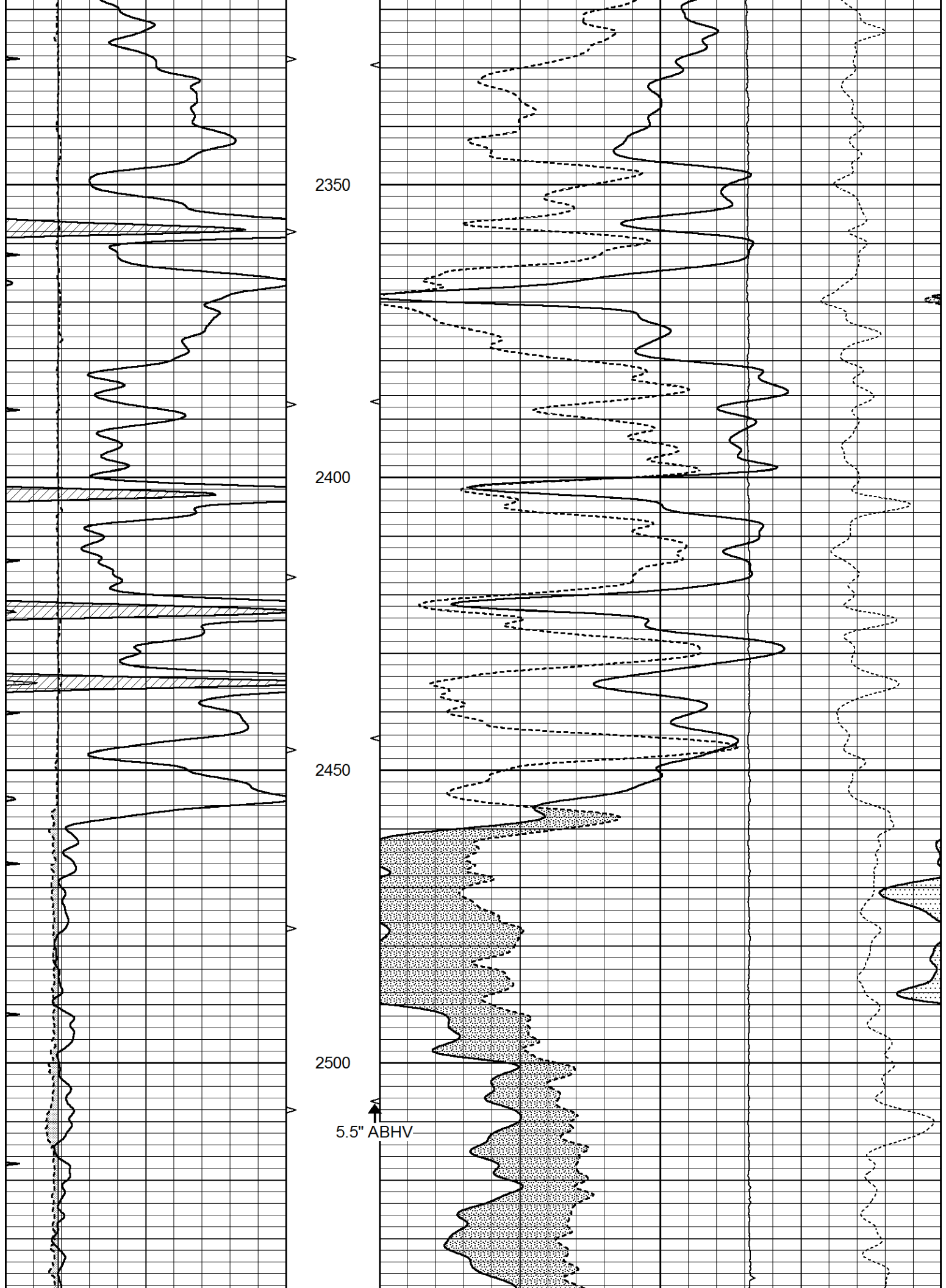
Database File	8779ddn.db
Dataset Pathname	pass3D
Presentation Format	_den_neu
Dataset Creation	Wed May 22 18:26:15 2024
Charted by	Depth in Feet scaled 1:240

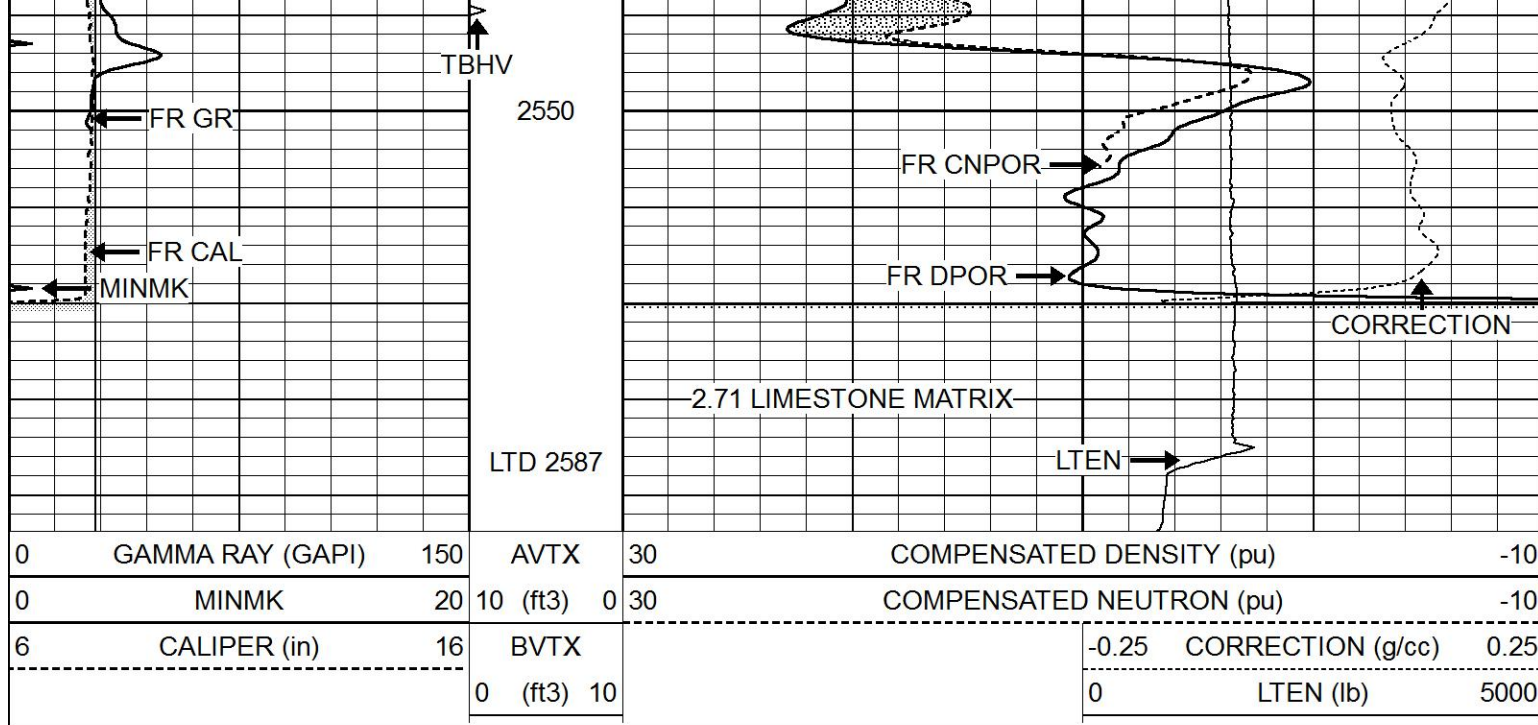
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10		0 LTEN (lb)	5000







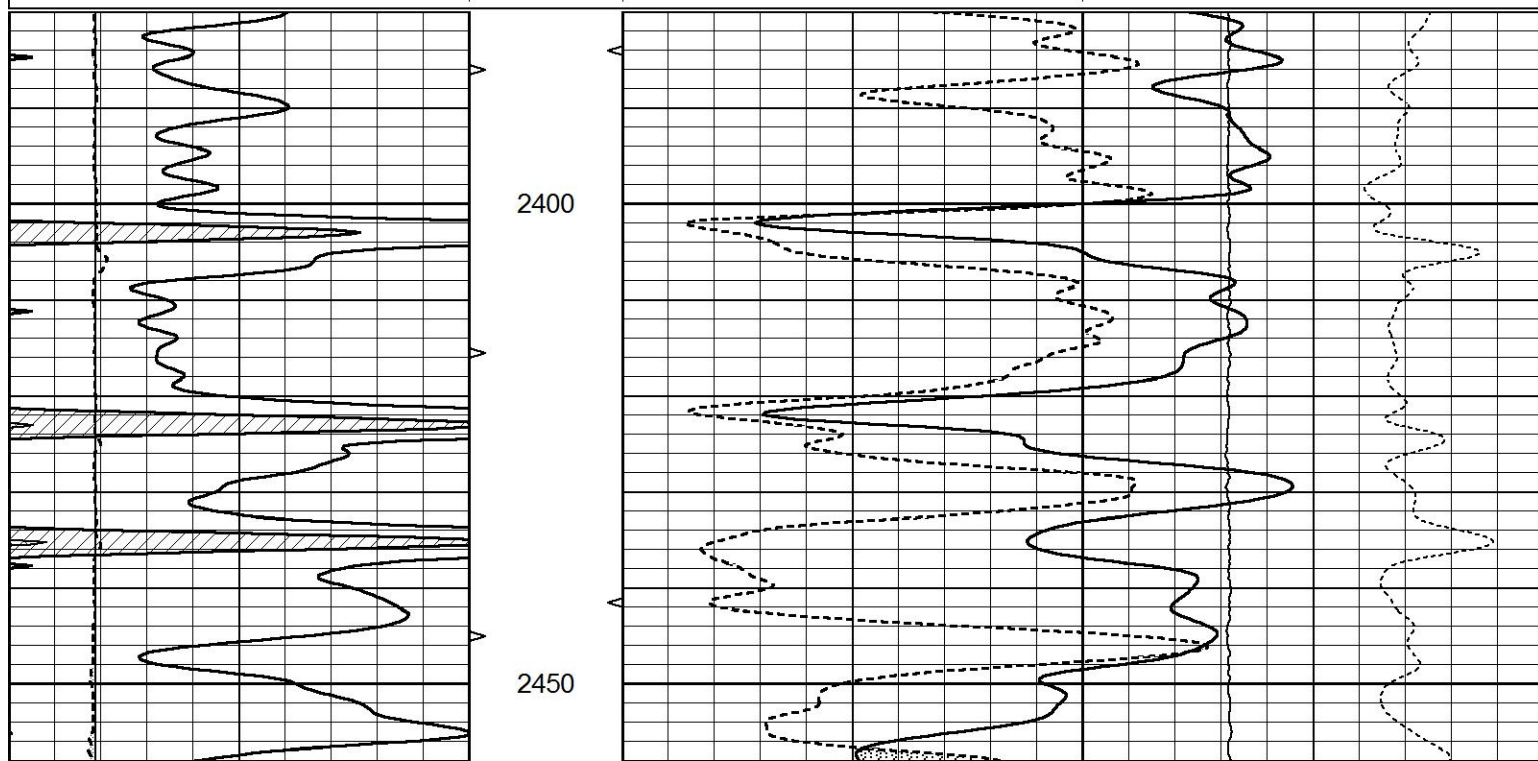


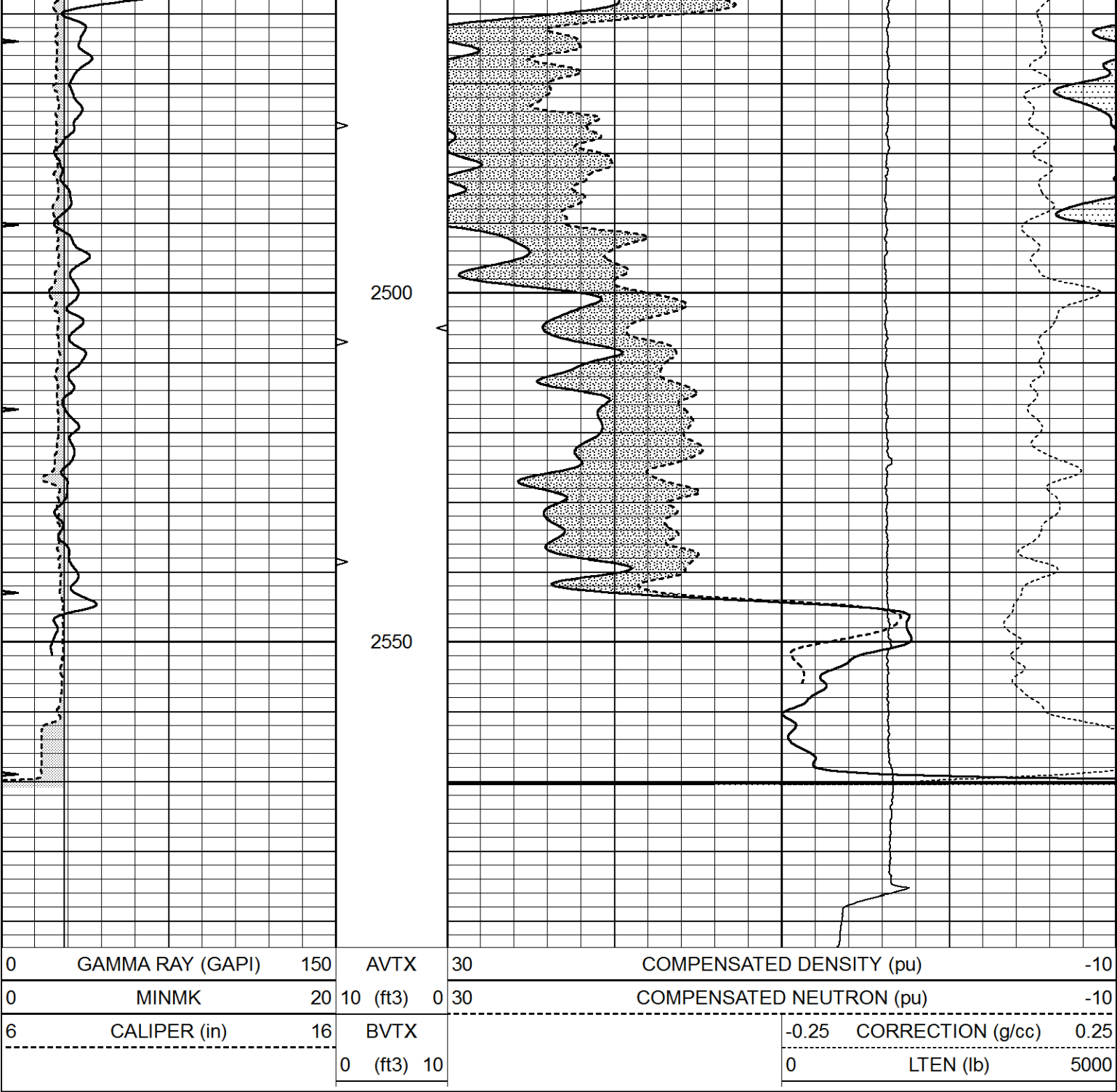


REPEAT SECTION

Database File 8779ddn.db
 Dataset Pathname pass2R
 Presentation Format _den_neu
 Dataset Creation Wed May 22 18:29:30 2024
 Charted by Depth in Feet scaled 1:240

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





Calibration Report	
Database File	8779ddn.db
Dataset Pathname	pass3D
Dataset Creation	Wed May 22 18:26:15 2024

Dual Induction Calibration Report	
Serial-Model:	FW1410-56-Probe
Surface Cal Performed:	Tue Apr 30 11:10:17 2024
Downhole Cal Performed:	Tue Jul 25 12:15:37 2017
After Survey Verification Performed:	Tue Jul 25 12:15:38 2017

Surface Calibration			Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b		
Deep	0.008	0.765	V	1.000	400.000	mmho/m	520.000	18.000		

Deep	0.000	0.763	V	1.000	464.000	mmho/m	520.000	10.000
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	540.000	170.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.005	0.624	V	0.000	400.000	mmho/m	645.611	-3.034
Medium	0.012	0.721	V	0.000	464.000	mmho/m	653.591	-7.532
Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.647	301.329	mmho/m	-0.780	336.378	mmho/m	1.117	-0.058
Medium	38.256	411.013	mmho/m	39.046	441.706	mmho/m	1.080	-2.280
LL3		7.471	V		2500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.085	V		4000.000	mmho-m		
After Survey Verification								
	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.647	301.329	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	38.256	411.013	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1500.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		3745.000	mmho-m		
Litho Density Calibration Report								
Serial: 002 Model: PRB								
Master Calibration								
Performed Tue Mar 05 14:38:26 2024								
	Background	Magnesium		Aluminum	Aluminum+Fe			
Window 1	725.2	6706.7		2064.1	1781.5			cps
Window 2	662.7	5683.9		1787.4	1577.3			cps
Window 3	531.1	2851.1		1038.7	963.2			cps
Window 4	159.2	158.7		158.9	156.4			cps
Long Space	0.0	5021.2		1124.6	914.6			cps
Short Space	1.4	1196.9		818.3	680.9			cps
Rho		1.7100		2.5900	0.0000			g/cc
Pe		2.0000		2.7500	5.7900			
Rib Angle	: 45.7	Rib Slope	: 1.026	Density/Spine Ratio			: 0.570	
Spine Angle	: 75.7	Spine Slope	: 3.935	Spine Intercept			: -19.4	
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			

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:	080621PMC		
		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:	46001				
Tool Model:	Probe1				
Performed:	Thu Apr 20 09:55:57 2023				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	0.4300	GAPI/cps			