

COMPENSATED DENSITY/NEUTRON LOG

Company H & D EXPLORATION, LLC.	
Well	DEBES UNIT #1
Field	UNNAMED
County	STAFFORD
State	KANSAS
Location: API #: 15-185-24145-0000	
530' FNL & 182' FWL SW - NW - NW - NW	
SEC 27 TWP 25S RGE 11W	
Permanent Datum	GROUND LEVEL Elevation 1834
Log Measured From	KELLY BUSHING 10' A.G.L.
Drilling Measured From	KELLY BUSHING
Other Services	
DIL/MEL	
Elevation	
K.B. 1844	
D.F. 1842	
G.L. 1834	
Date	8/1/23
Run Number	ONE
Depth Driller	4135
Depth Logger	4134
Bottom Logged Interval	4110
Top Log Interval	3150
Casing Driller	8 5/8 @ 647
Casing Logger	647
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.6+lb1
PH / Fluid Loss	10.0/9.8
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.900 @ 78F
Rmf @ Meas. Temp	.675 @ 78F
Rmc @ Meas. Temp	1.08 @ 78F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.600 @ 117F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	9:00 P.M.
Maximum Recorded Temperature	117F
Equipment Number	8916
Location	HAYS, KANSAS
Recorded By	COLE ROBBEN
Witnessed By	JIM MUSGROVE

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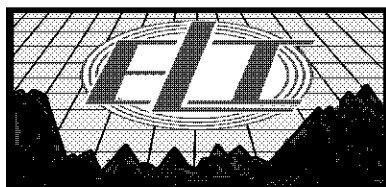
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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.

Comments

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

DIRECTIONS:

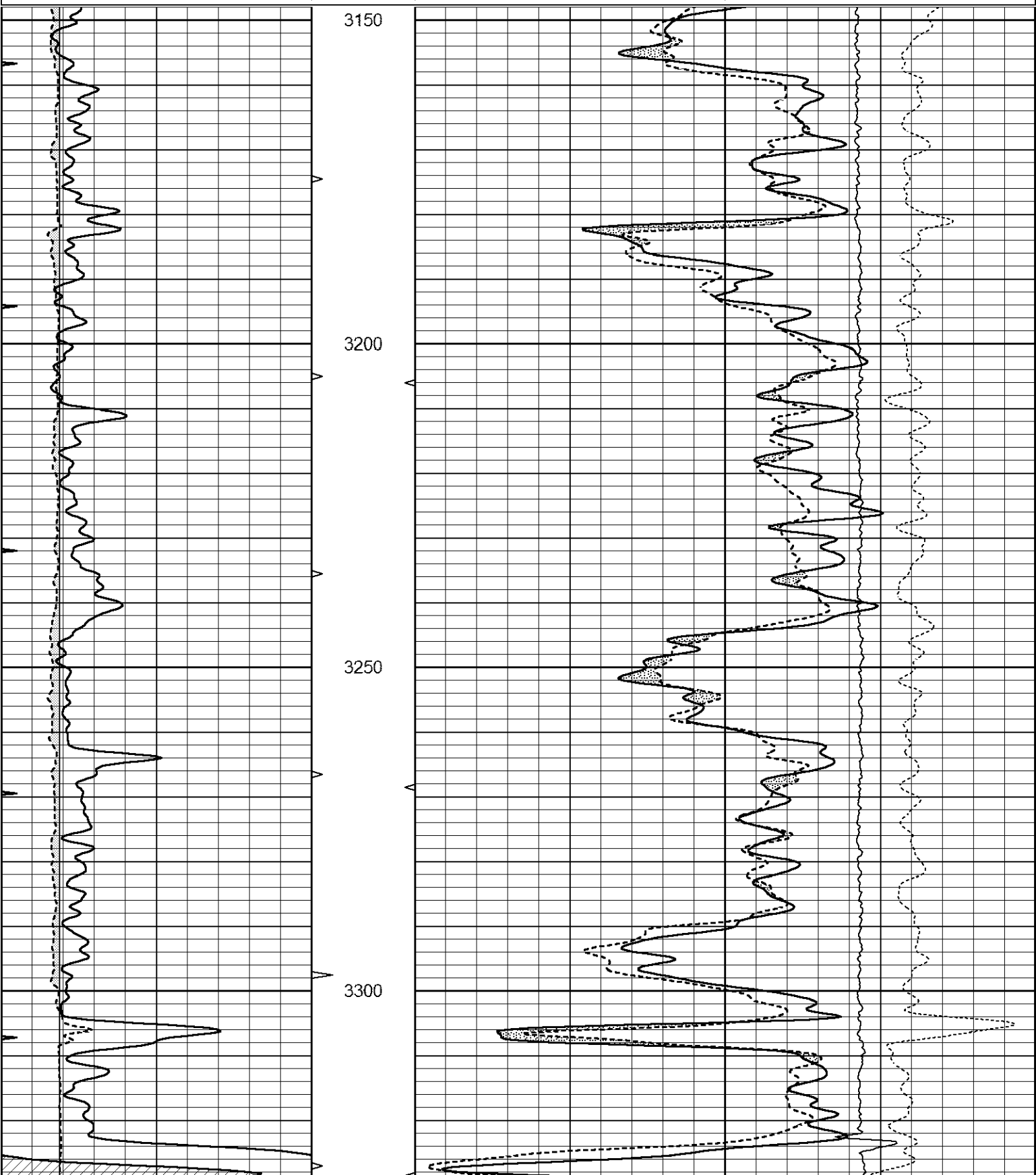
FROM STAFFORD, KANSAS GO SOUTH 6 MILES TO ROAD 60, 4 MILES EAST TO 120TH AVE,
1 1/8 MILE SOUTH PAST ROAD 70, EAST INTO

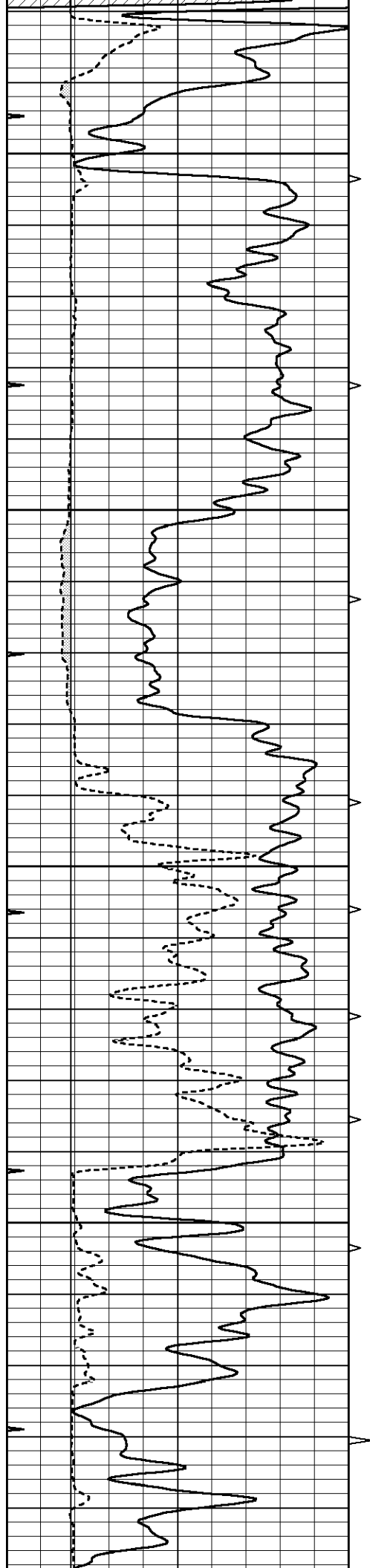


MAIN SECTION

Database File	7708ddn.db
Dataset Pathname	pass3D
Presentation Format	_den_neu
Dataset Creation	Tue Aug 01 22:27:34 2023
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	



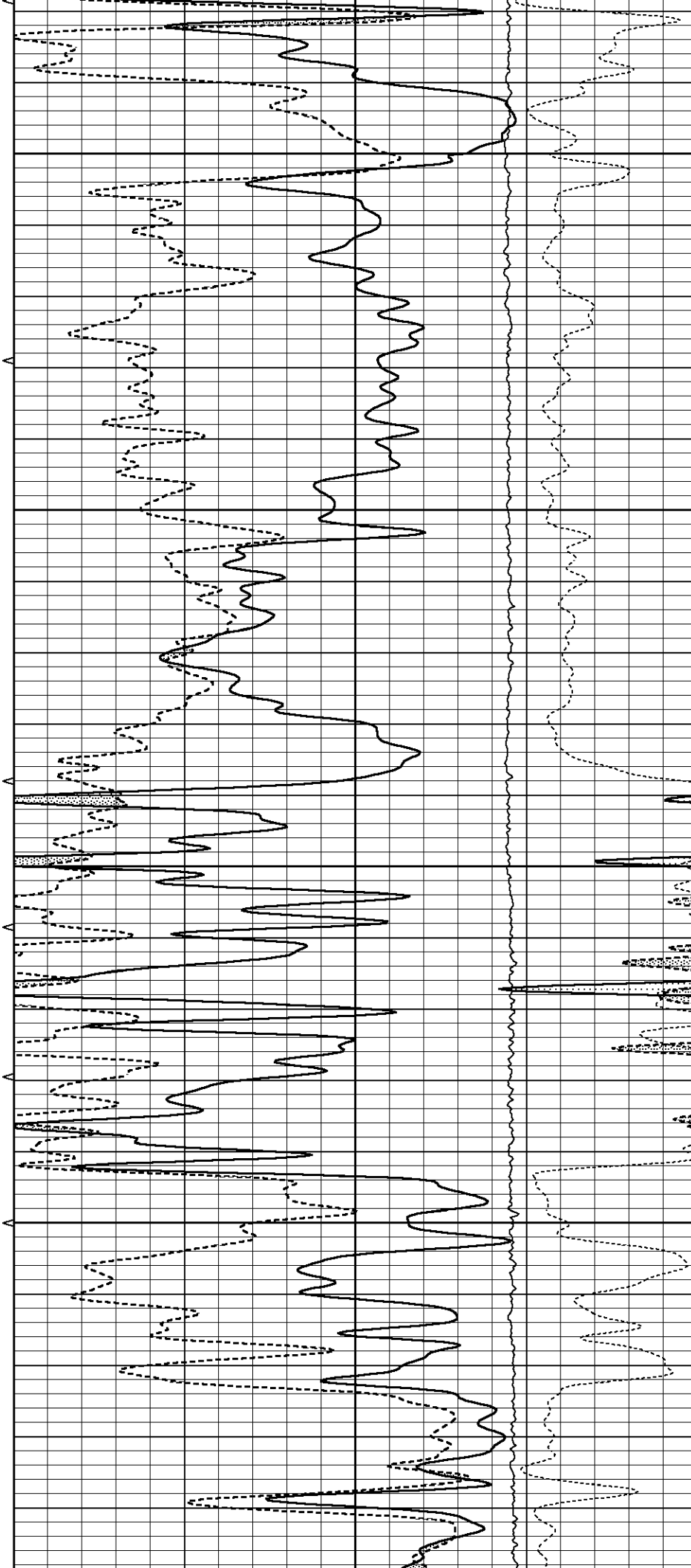


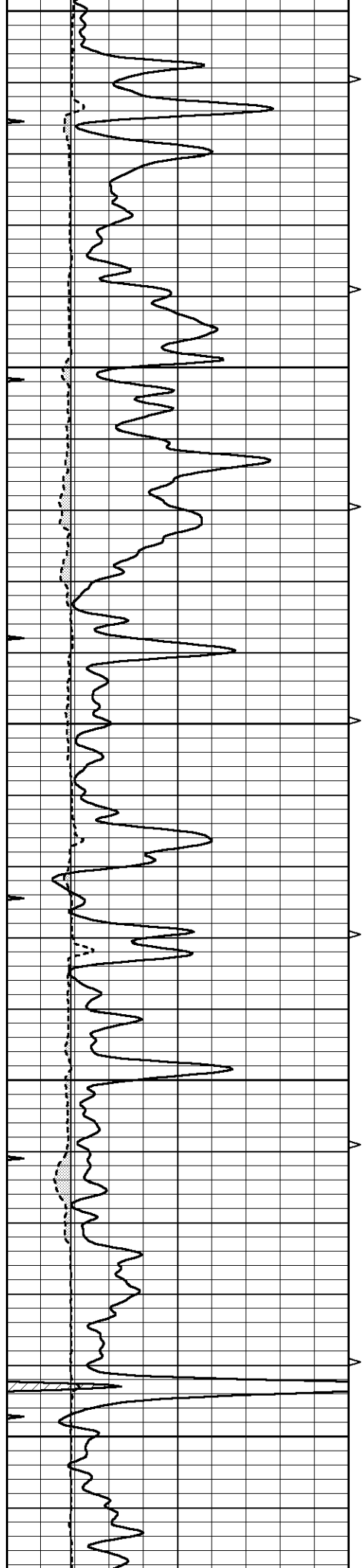
3350

3400

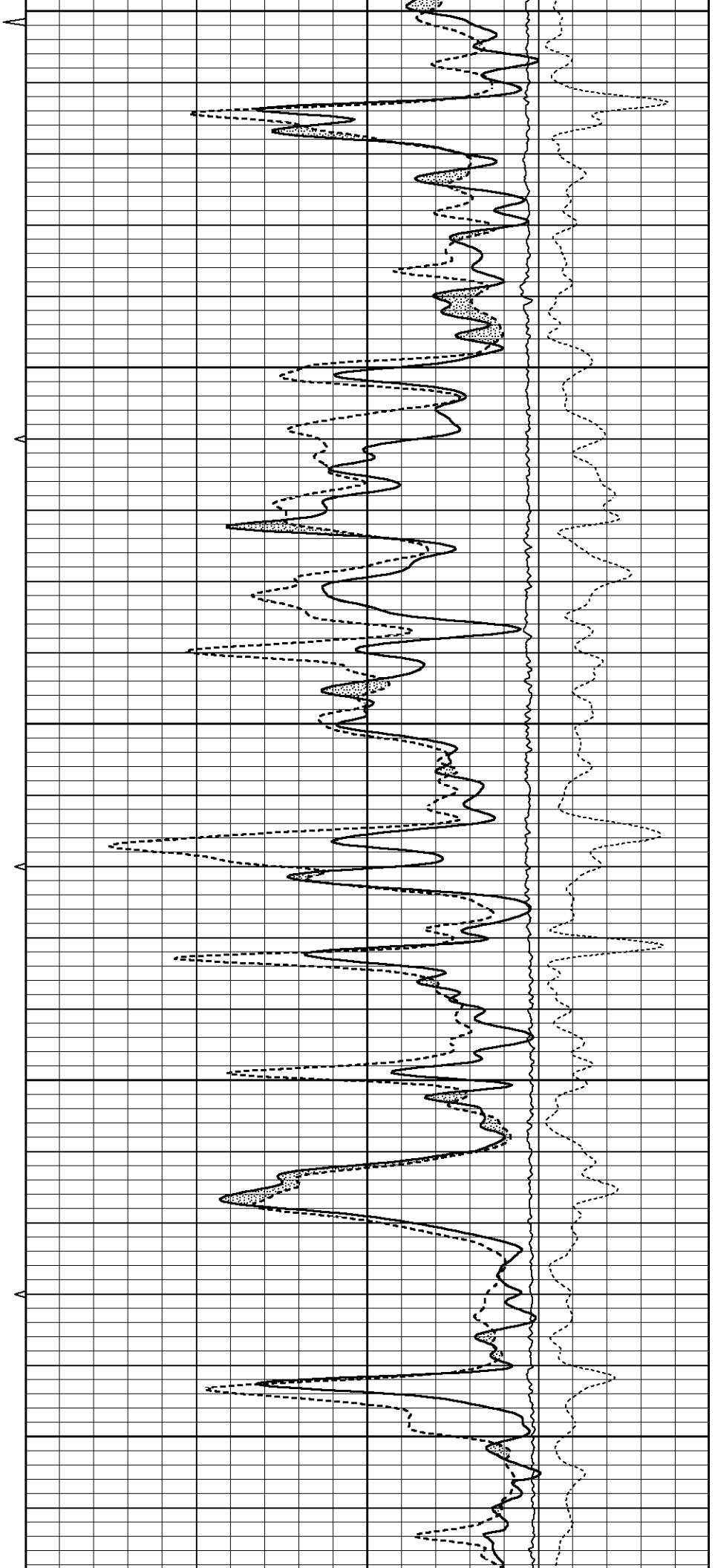
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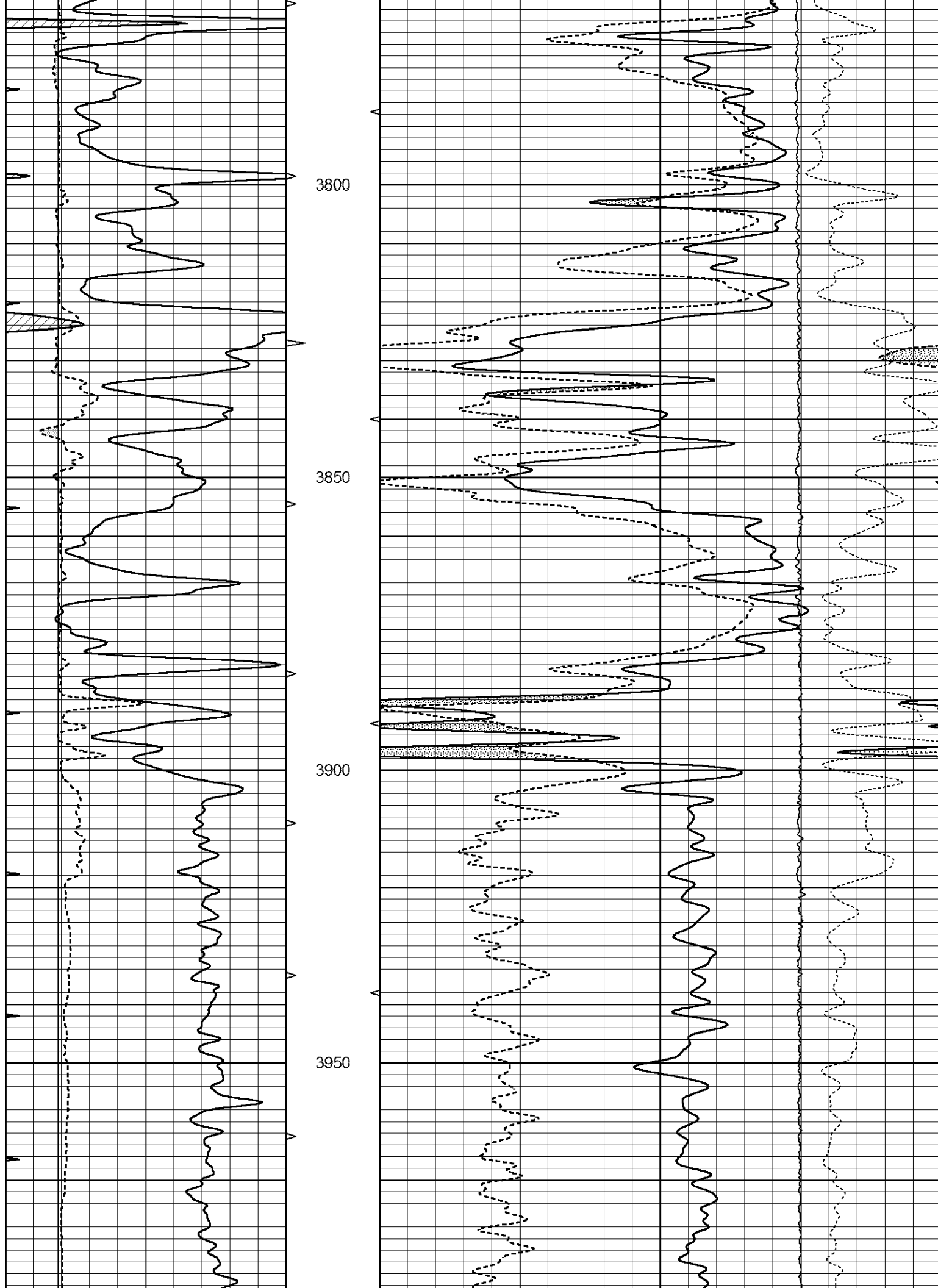
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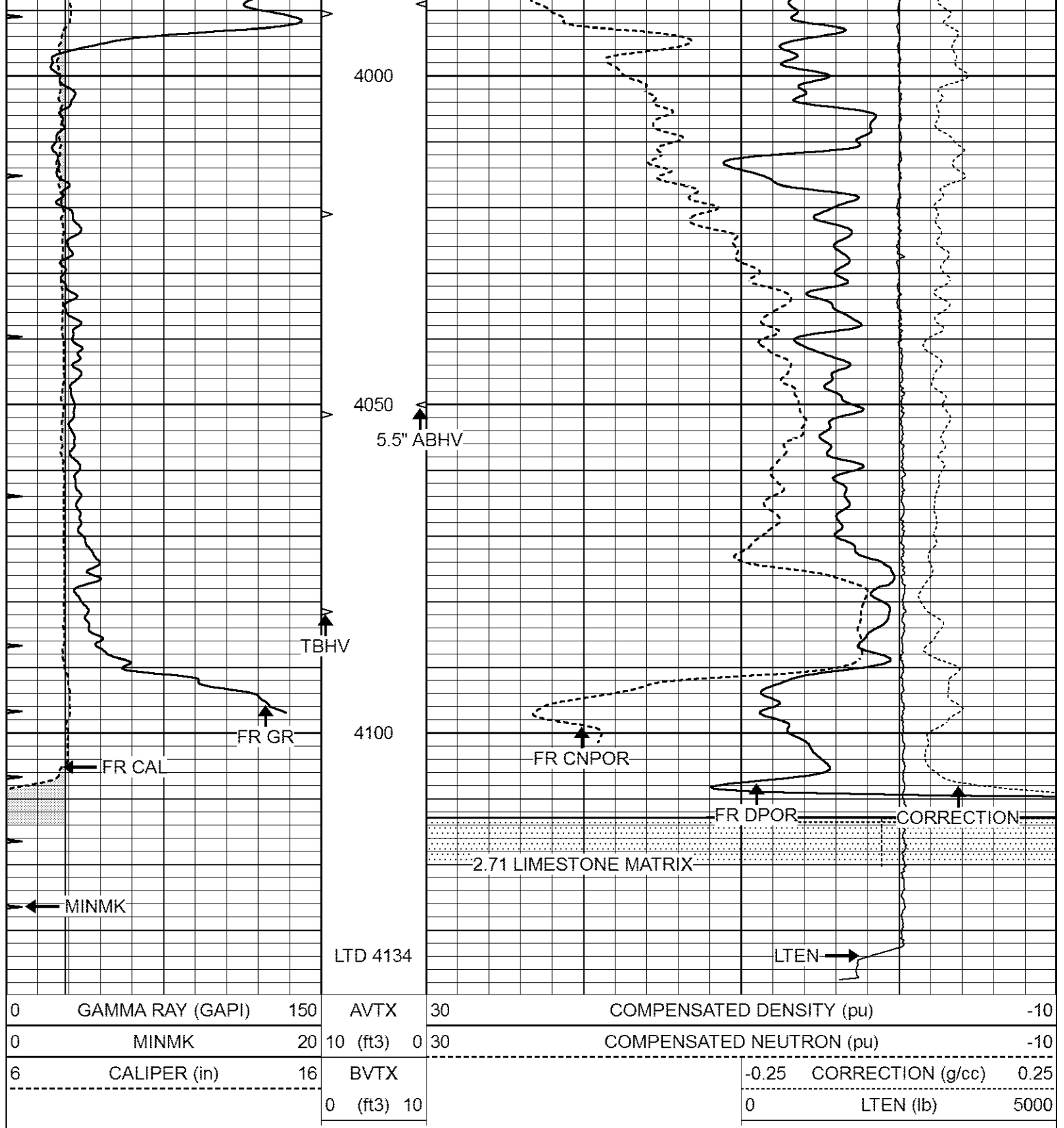




3550
3600
3650
3700
3750





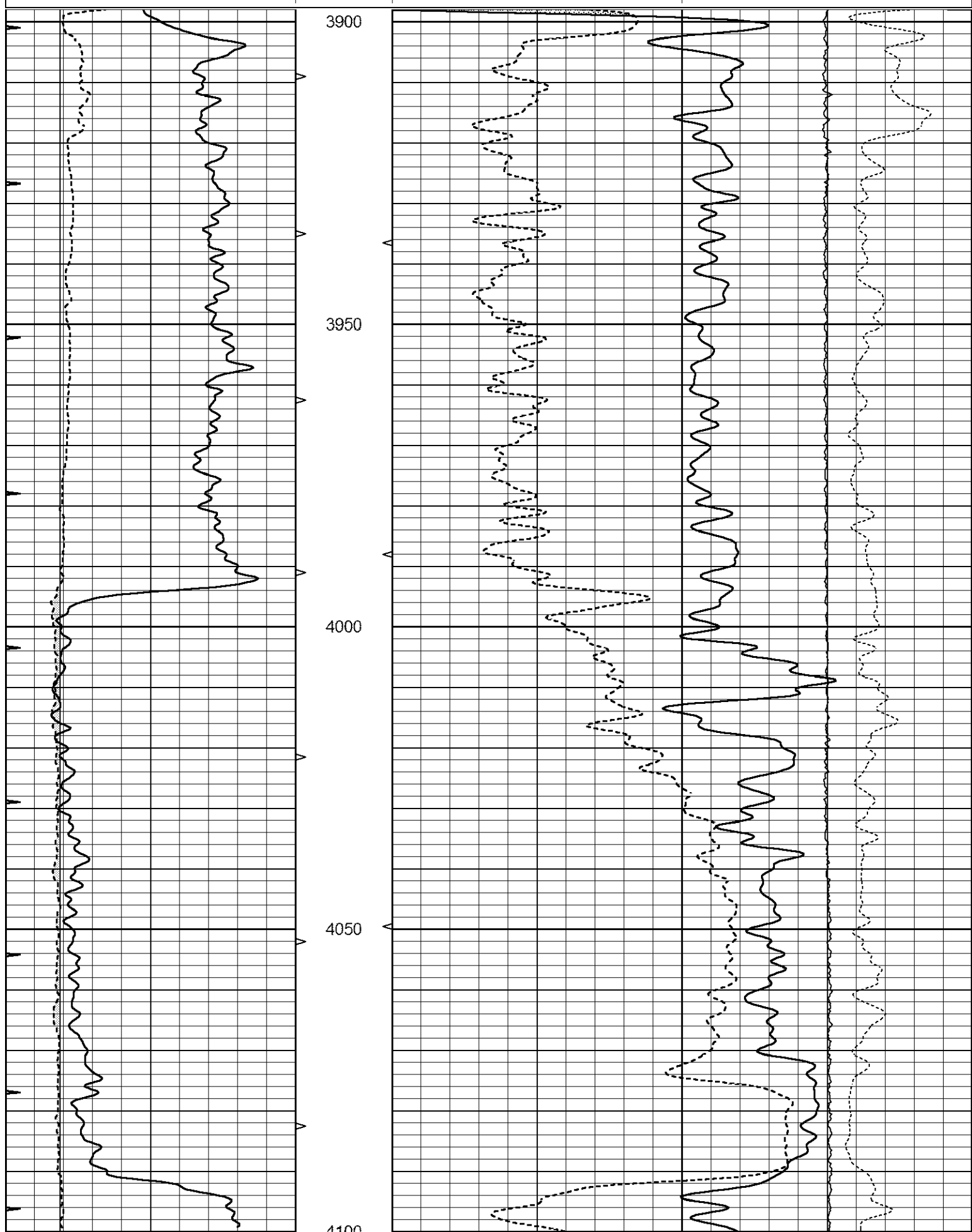


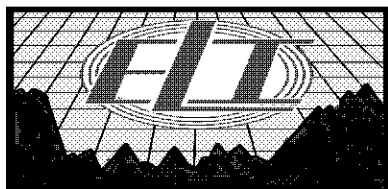
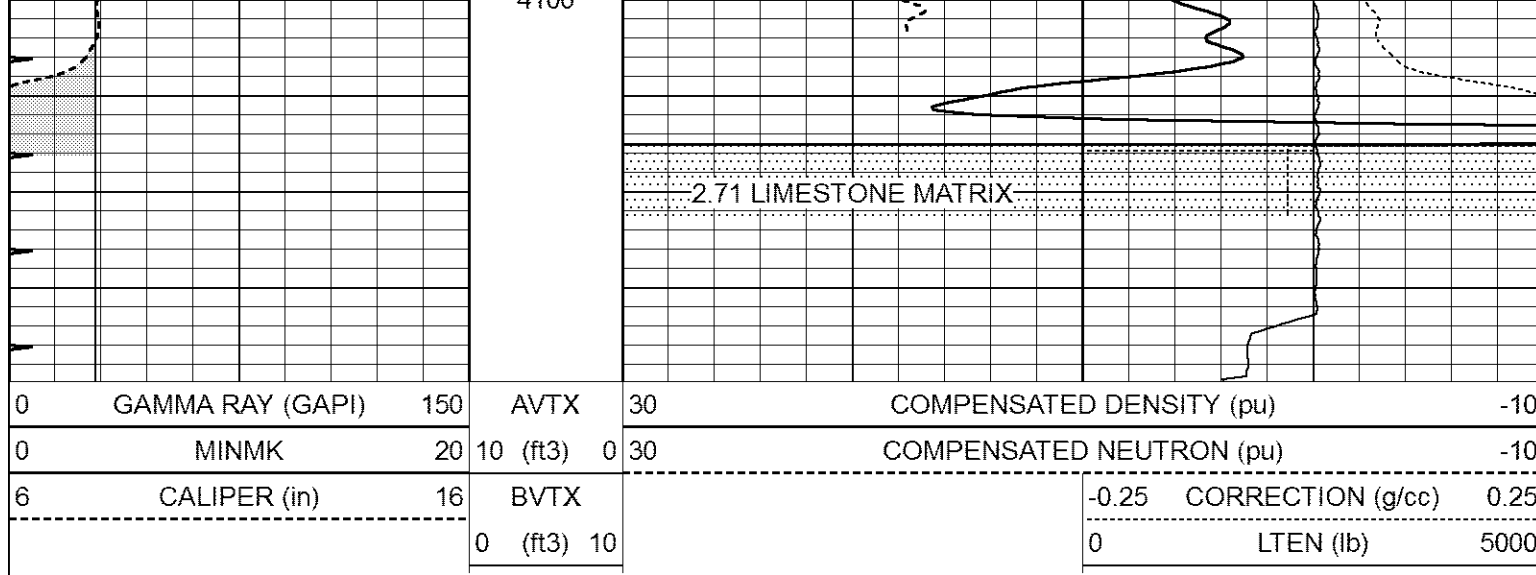
REPEAT SECTION

Database File 7708ddn.db
 Dataset Pathname pass2LS
 Presentation Format _den_neu
 Dataset Creation Tue Aug 01 22:18:42 2023
 Charted by Depth in Feet scaled 1:240

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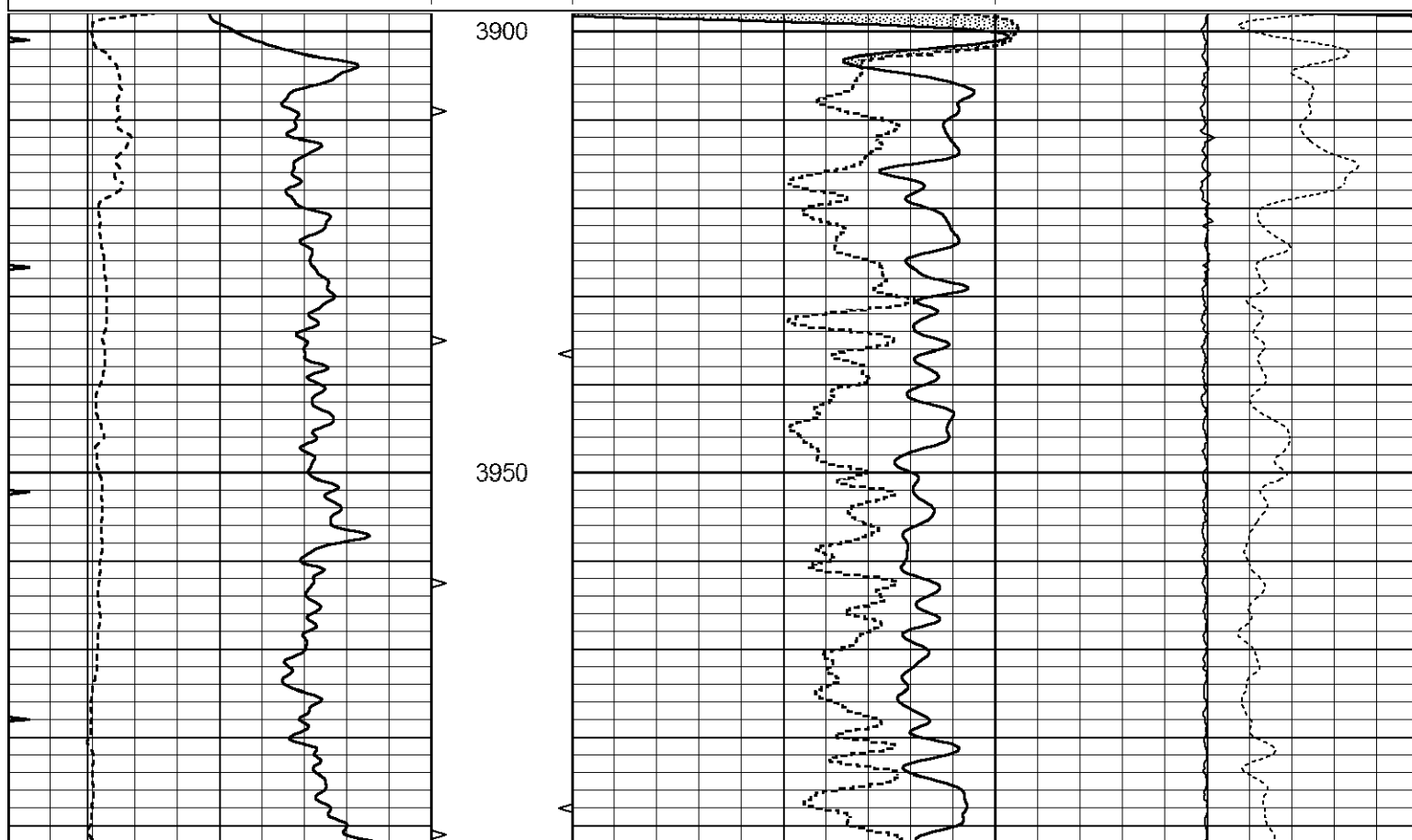
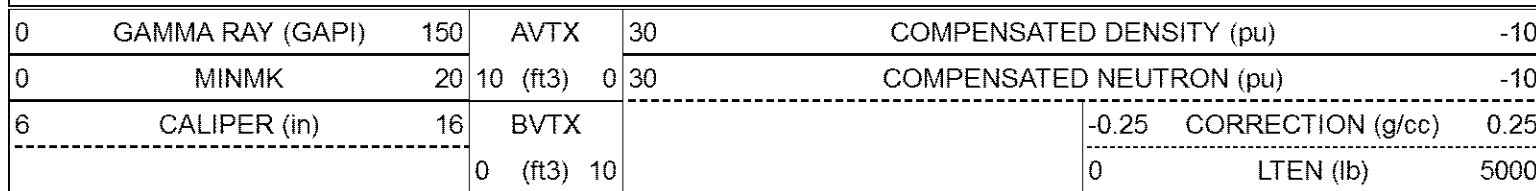
0	MINMK	20	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)			-10
6	CALIPER (in)	16	BVTX			-0.25	CORRECTION (g/cc)	0.25	
			0 (ft3)	10		0	LTEN (lb)	5000	

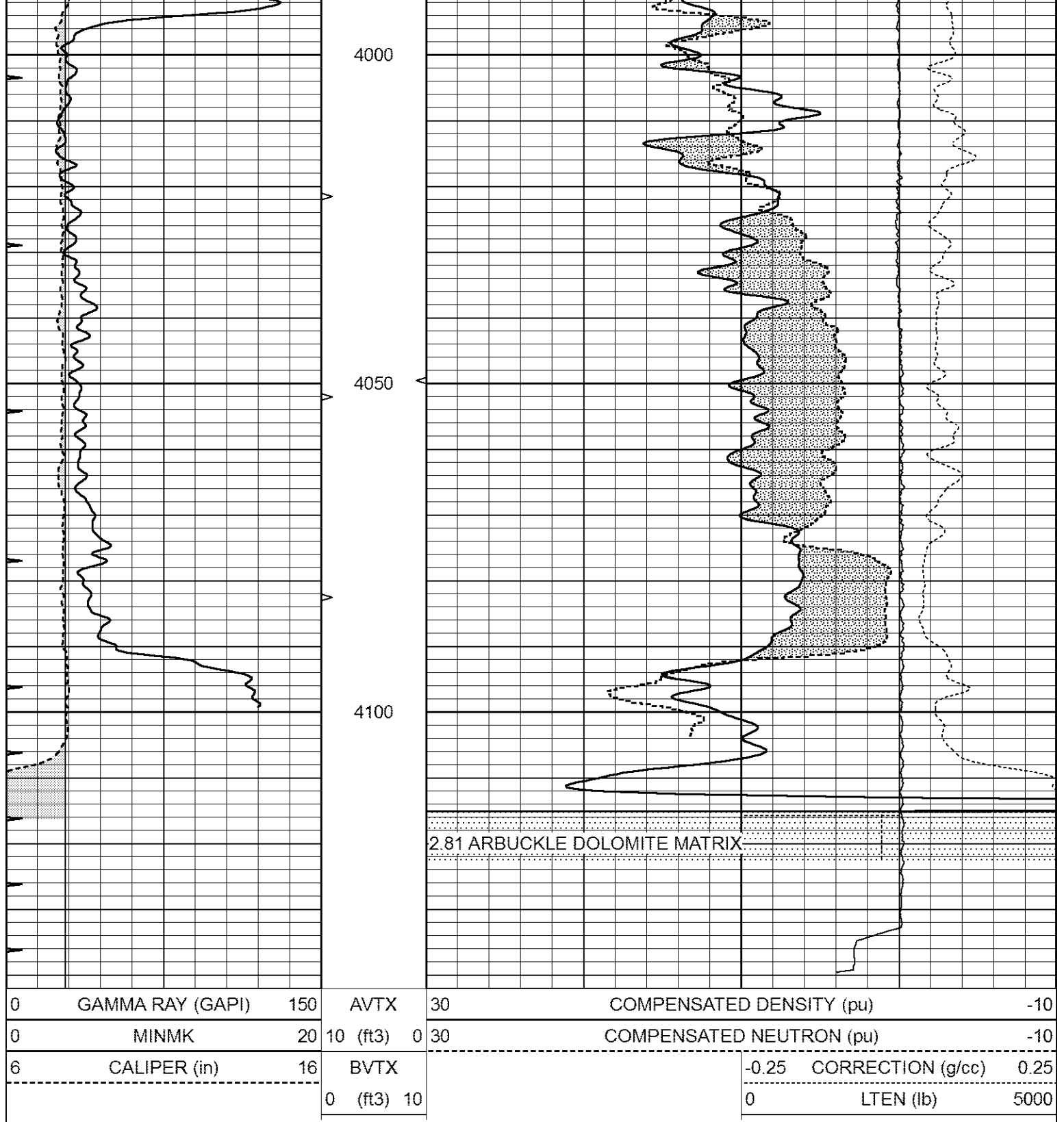




DOLOMITE MATRIX REPEAT

Database File 7708ddn.db
 Dataset Pathname pass2DOL
 Presentation Format den_neu
 Dataset Creation Tue Aug 01 22:21:24 2023
 Charted by Depth in Feet scaled 1:240





Calibration Report

Database File 7708ddn.db
Dataset Pathname pass3D
Dataset Creation Tue Aug 01 22:27:34 2023

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
Surface Cal Performed: Sat Jul 29 01:57:42 2023
Downhole Cal Performed: Tue Feb 19 11:44:24 2019
After Survey Verification Performed: Tue Feb 19 11:44:27 2019

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	575.000	-6.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	530.000	-12.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.007	0.649	V	0.000	400.000	mmho/m	623.784	-4.595
Medium	0.004	0.743	V	0.000	464.000	mmho/m	627.284	-2.251

Downhole Calibration								
Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	-0.824	395.917	mmho/m	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	mmho/m	3.468	471.590	mmho/m	1.001	-0.099
LL3		7.503	V		1500.000	Ohm-m		
		0.001	V		20.000	Ohm-m		
		-7.481	V		3745.000	mmho-m		

After Survey Verification								
Readings				Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	-0.824	395.917	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	3.565	471.327	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: 140704 Model: V4_10P Source Number: 74GBq-19								
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Master Calibration				Performed: Fri May 12 10:26:47 2023				
	Background	Aluminum	Magnesium					
Window 1	521.46	5212.91	23528.37	cps				
Window 2	43.81	1175.90	6160.42	cps				
Window 4	226.45	1217.97	4891.35	cps				
Window 5	519.17	8959.34	17037.10	cps				
Window 6	39.35	1453.85	2926.68	cps				
Window 8	253.66	2919.24	5361.51	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.7699	SS Alpha:	: -0.7448	LS CPE:		: 1.1844		
LS Beta:	: 101708.6271	SS Beta:	: 19263.5258	SS CPE:		: 1.5835		

Before Survey Background Counts Verification				Performed: Wed Dec 31 18:00:00 1969				
Window 1	0.00	cps						
Window 2	0.00	cps						
Window 4	0.00	cps						
Window 5	0.00	cps						
Window 6	0.00	cps						
Window 8	0.00	cps						

After Survey Background Counts Verification				Performed: Wed Dec 31 18:00:00 1969	
Window 1	0.00	cps			
Window 2	0.00	cps			
Window 4	0.00	cps			
Window 5	0.00	cps			
Window 6	0.00	cps			
Window 8	0.00	cps			

Lithodensity Caliper Calibration				Performed: Fri May 12 10:26:47 2023	
Results	Readings	References (in)			
Low	High	Low	High	Gain	Offset
7228.5	10151.9	8.0	14.0	0.0	-7.4

Before Survey Caliper Verification				Performed:	
	Reference	Reading			
	_____	_____			
Caliper (in)					

After Survey Caliper Verification				Performed:	
	Reference	Reading			
	_____	_____			
Caliper (in)					

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:	7				
Tool Model:	Probe1				
Performed:	Tue Aug 01 20:36:29 2023				
Calibrator Value:	1.0	GAPI			
Background Reading:	0.0	cps			
Calibrator Reading:	1.0	cps			
Sensitivity:	0.4400	GAPI/cps			