



**COMPENSATED
DENSITY/NEUTRON
LOG**

Company L.D. DRILLING, INC.
Well #1-16 DEBRA
Field WILDCAT
County THOMAS
State KANSAS

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Well #1-16 DEBRA
Field WILDCAT
County THOMAS State KANSAS

Location: API #: 15-193-21099-0000
1639' FNL & 458' FWL
Permanent Datum GROUND LEVEL Elevation 3228
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING
Elevation
K.B. 3233
D.F. 3231
G.L. 3228

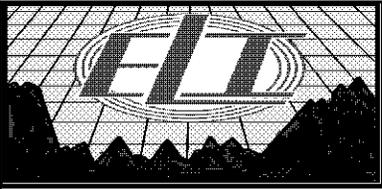
Date	2/17/22		
Run Number	ONE		
Depth Driller	4780		
Depth Logger	4780		
Bottom Logged Interval	4756		
Top Log Interval	3500		
Casing Driller	8 5/8" @ 370'		
Casing Logger	370'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4600 PPM	
Density / Viscosity	9.4/58		
PH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.95@52F		
Rmt @ Meas. Temp	.71@52F		
Rmc @ Meas. Temp	1.14@52F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.40@123F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	123F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI	TJ DREILING	
Witnessed By	KIM SHOEMAKER		

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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

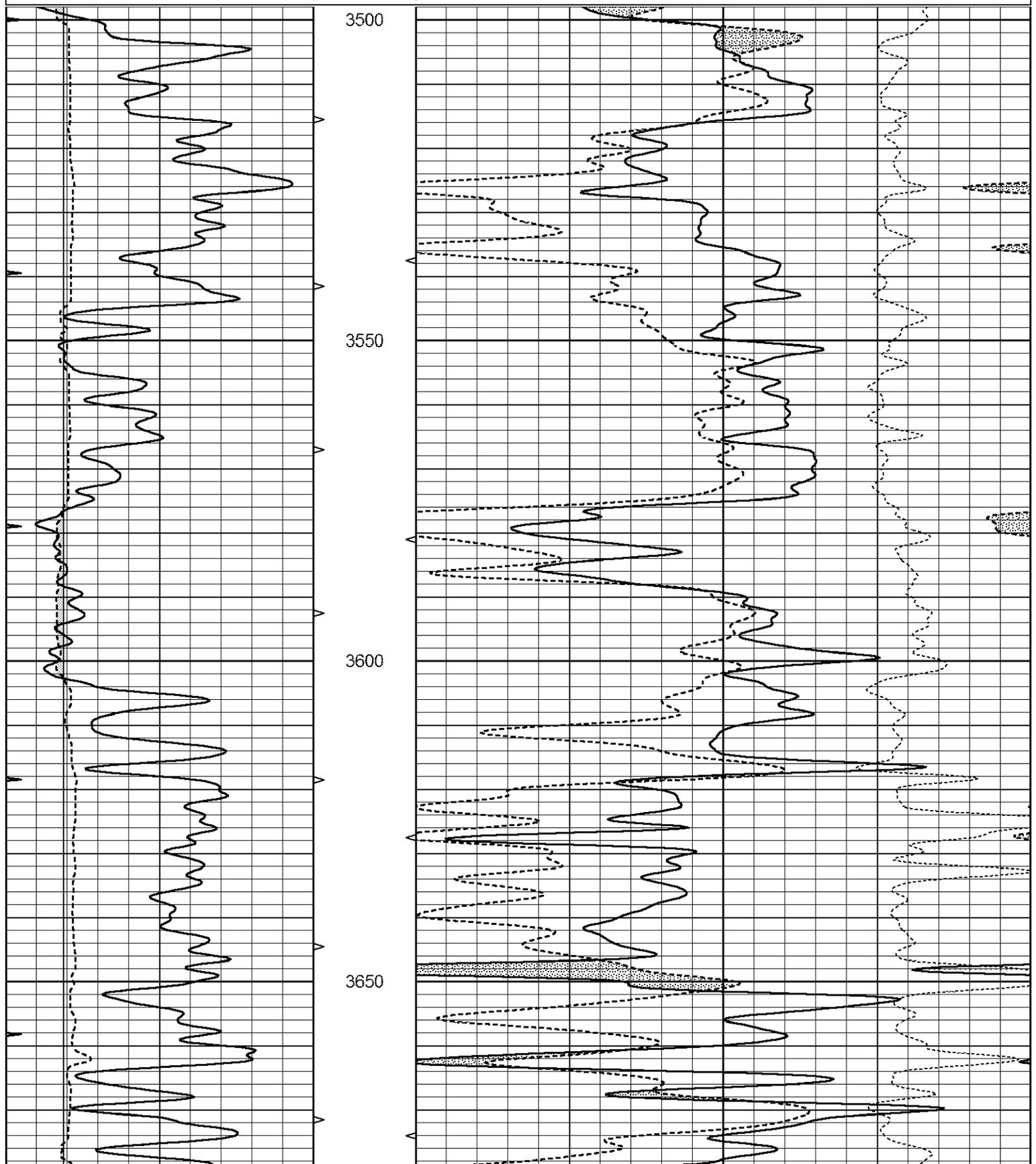
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
COLBY KANSAS, -1/2 MILE SOUTH ON HIGHWAY 25 TO ROAD "P"
- 4 MILES WEST TO YIELD SIGN, -3/4 MILE NORTH,
-EAST INTO JUST PAST THE FEED YARD

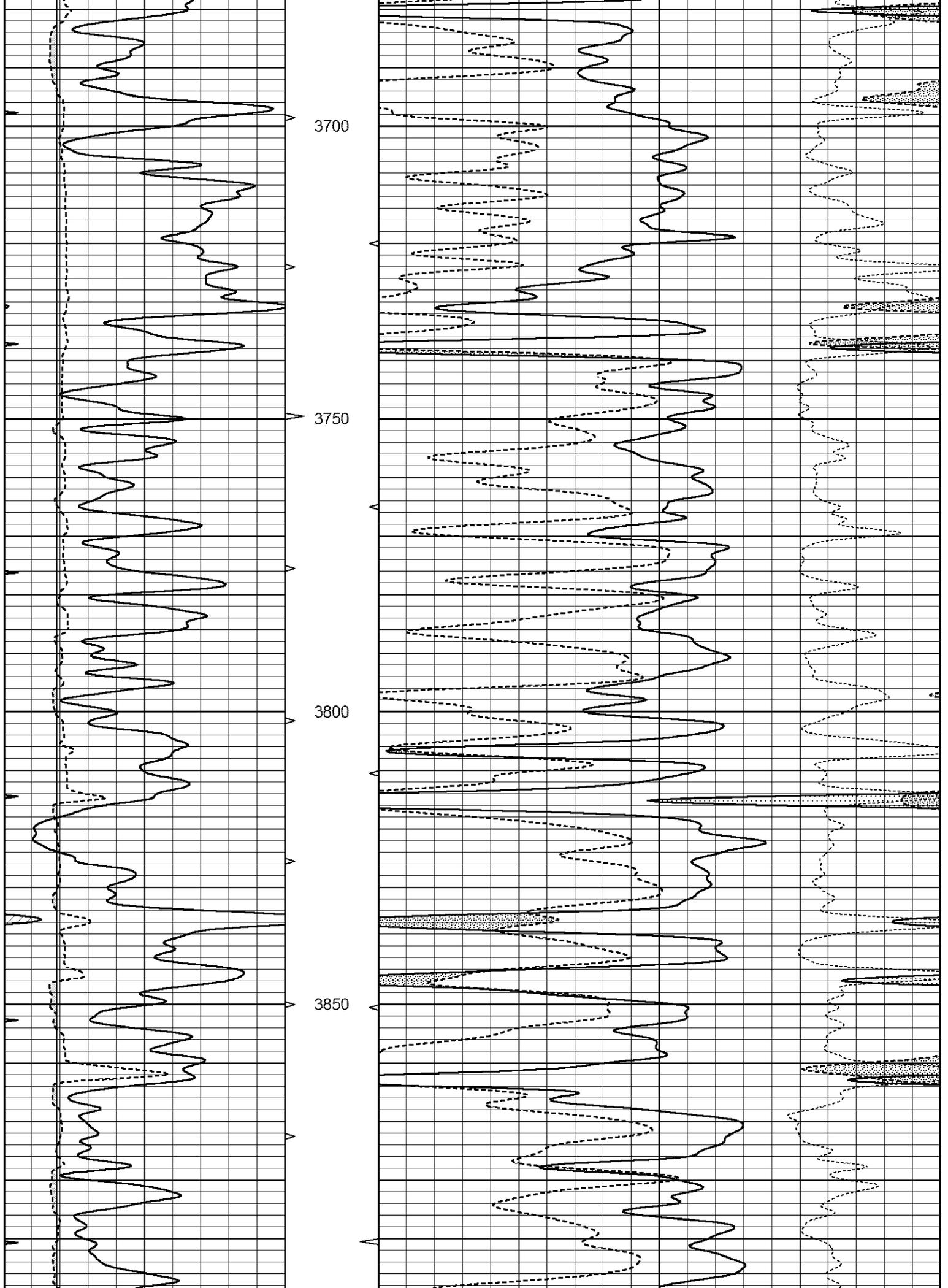


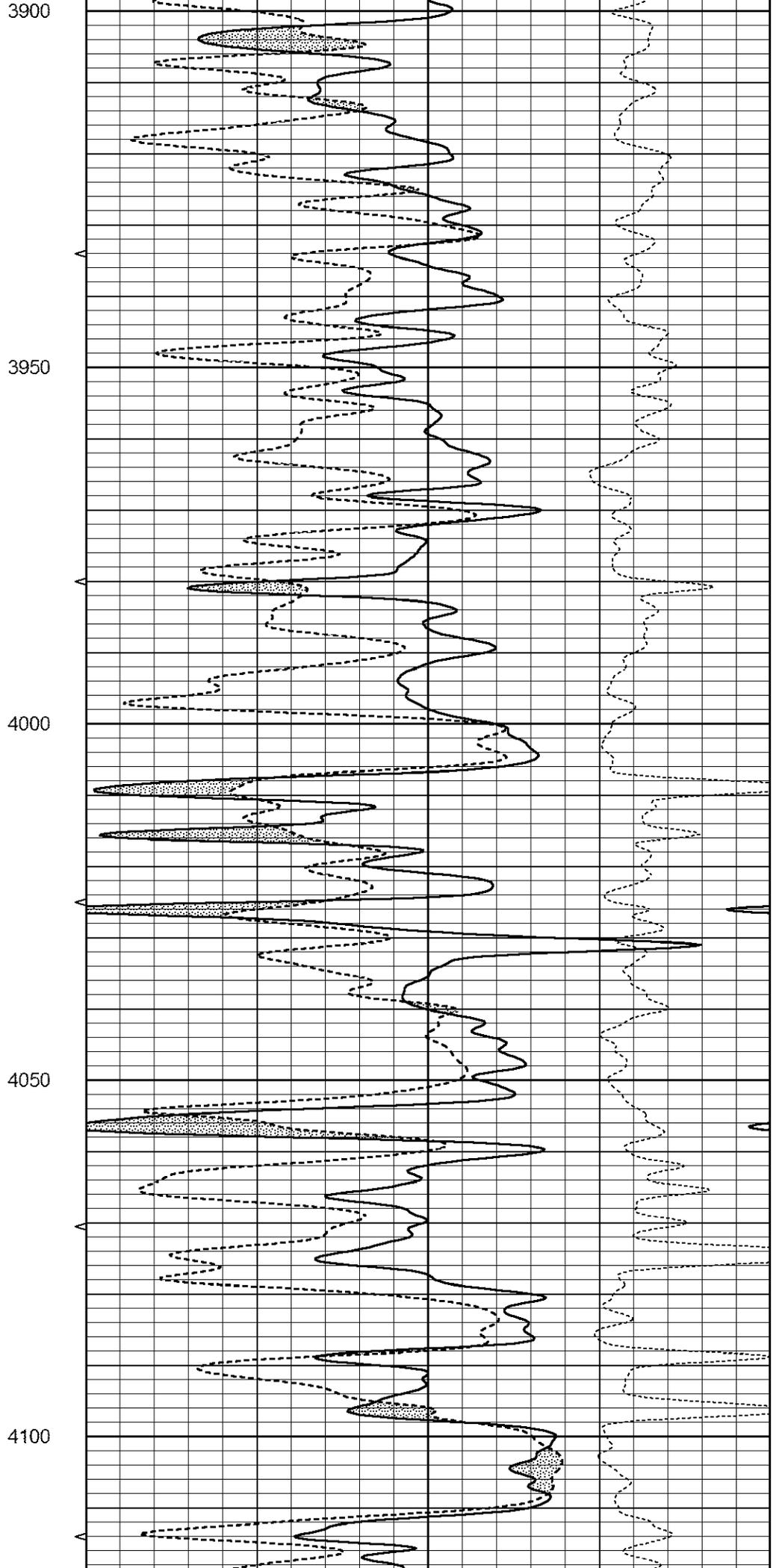
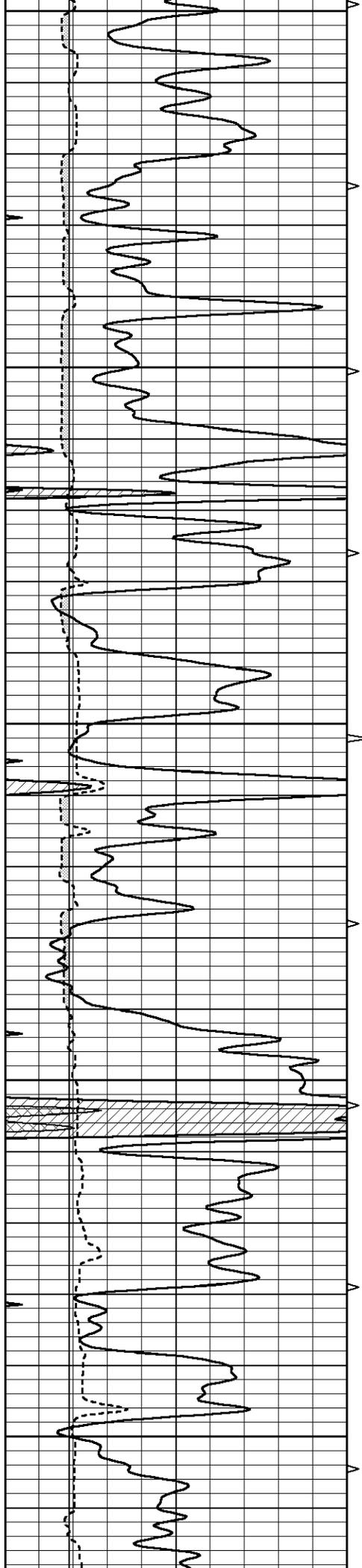
MAIN SECTION

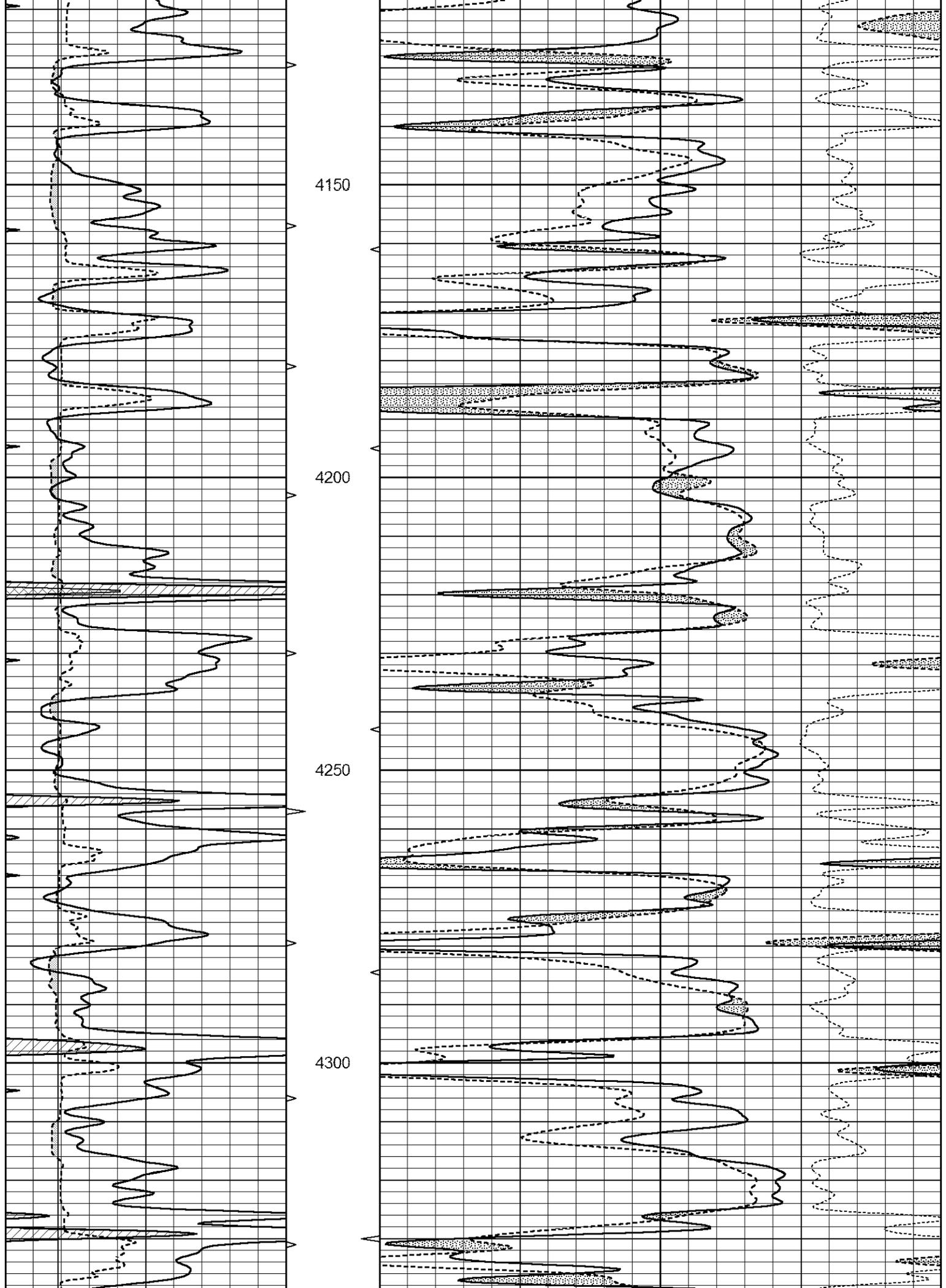
Database File 6241ddn.db
 Dataset Pathname pass3.1
 Presentation Format _den_neu
 Dataset Creation Thu Feb 17 12:31:45 2022
 Charted by Depth in Feet scaled 1:240

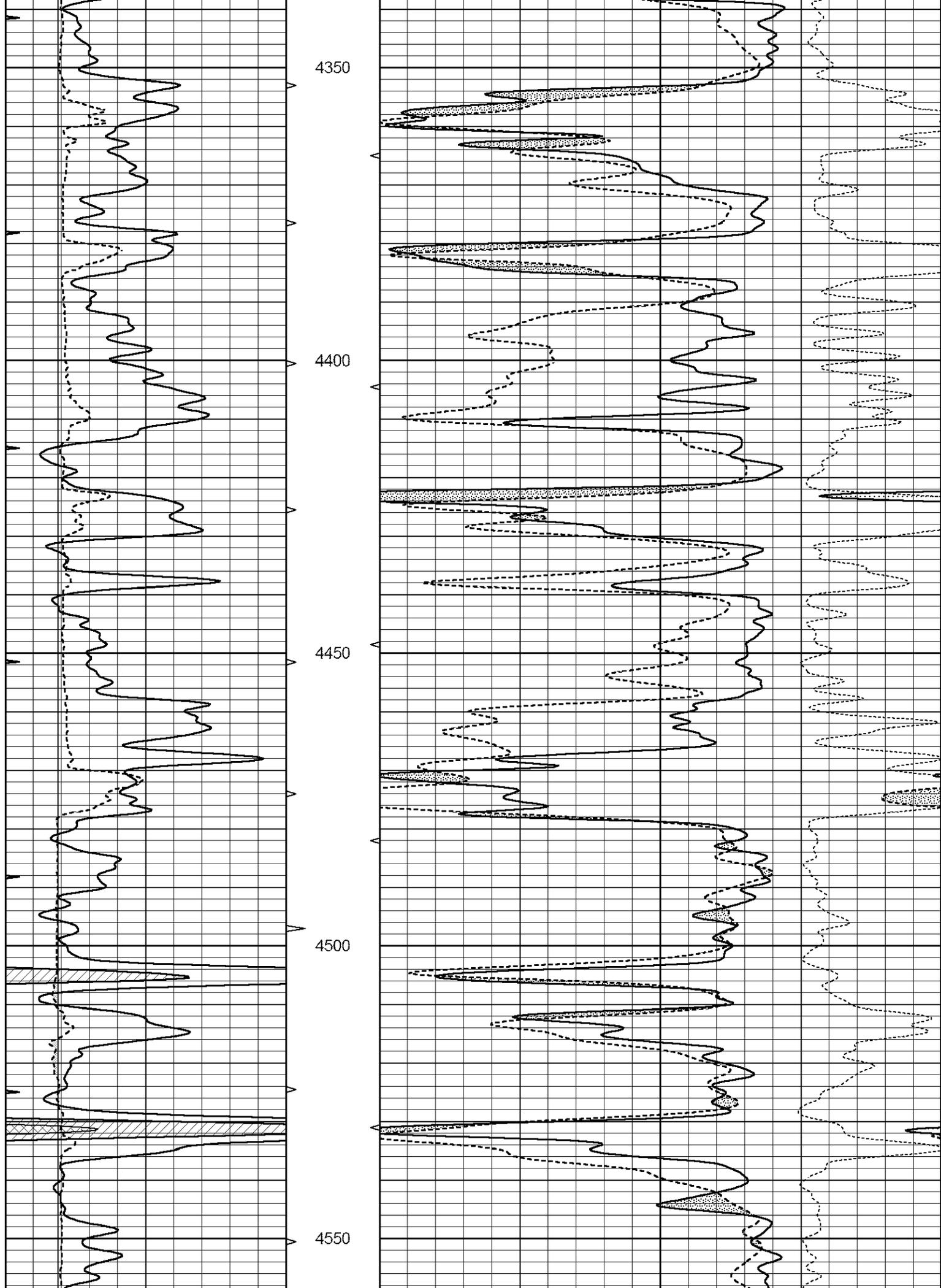
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10			

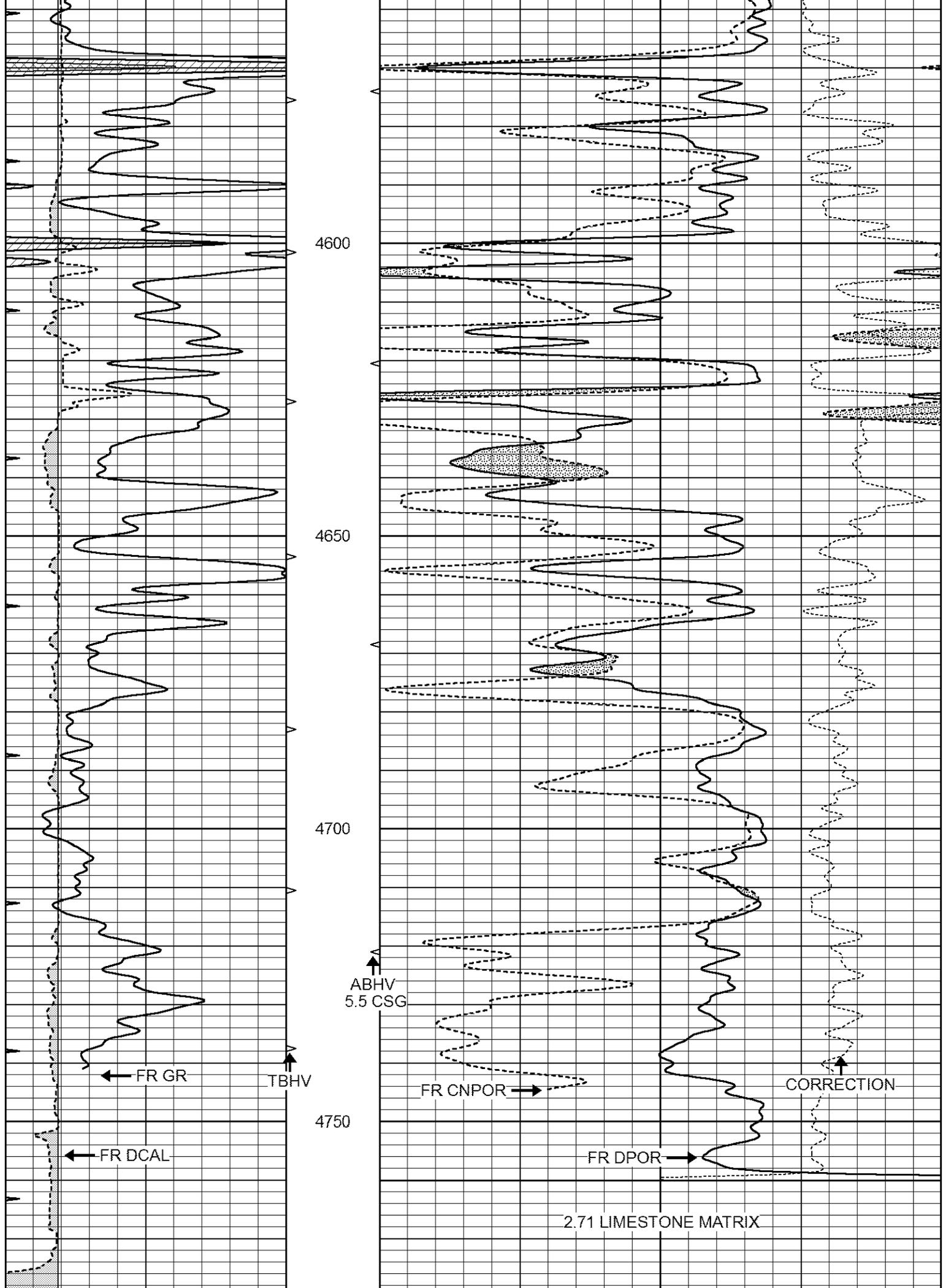












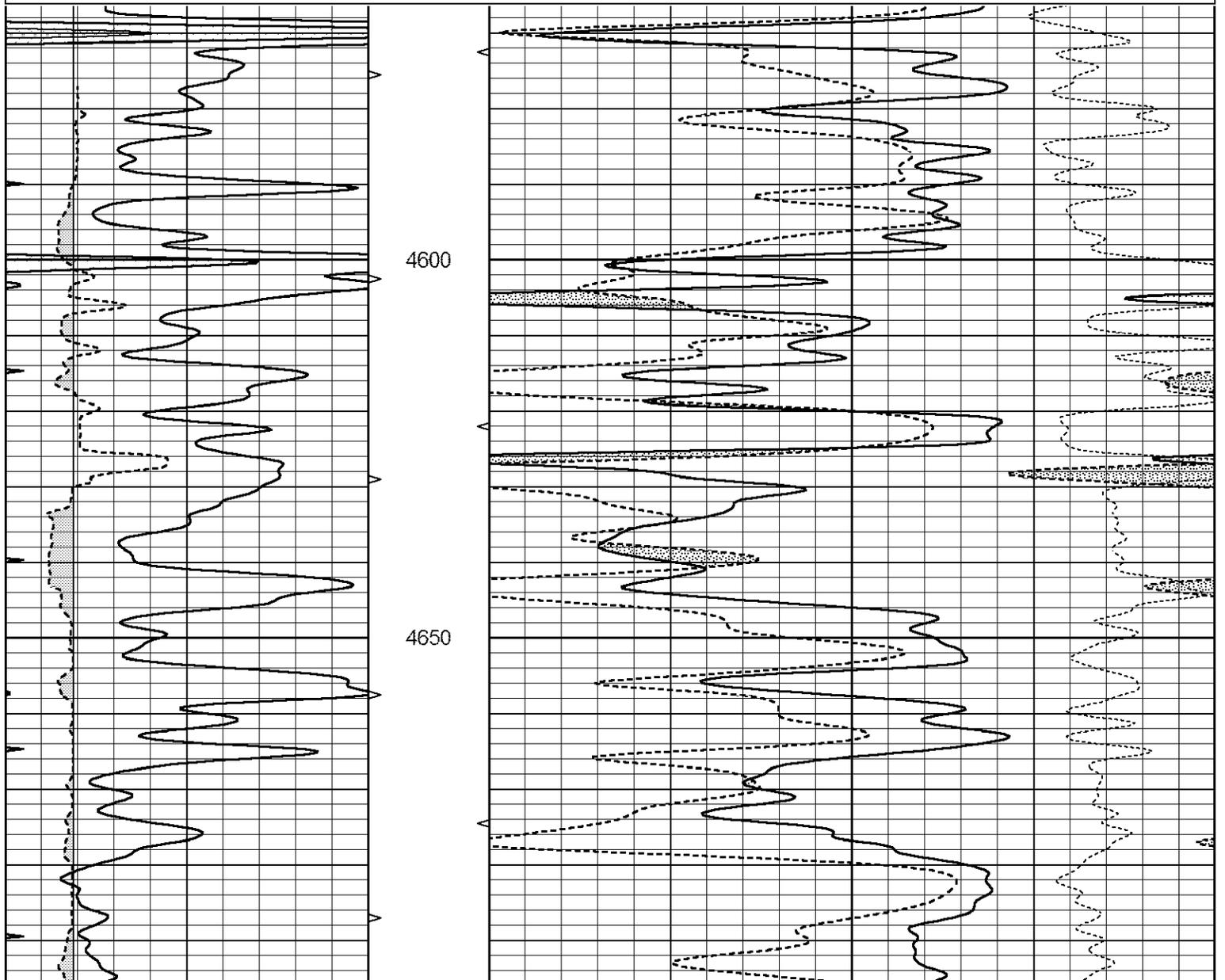
			LTD 4780					
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10		
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10		
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25		
			0 (ft3)	10				

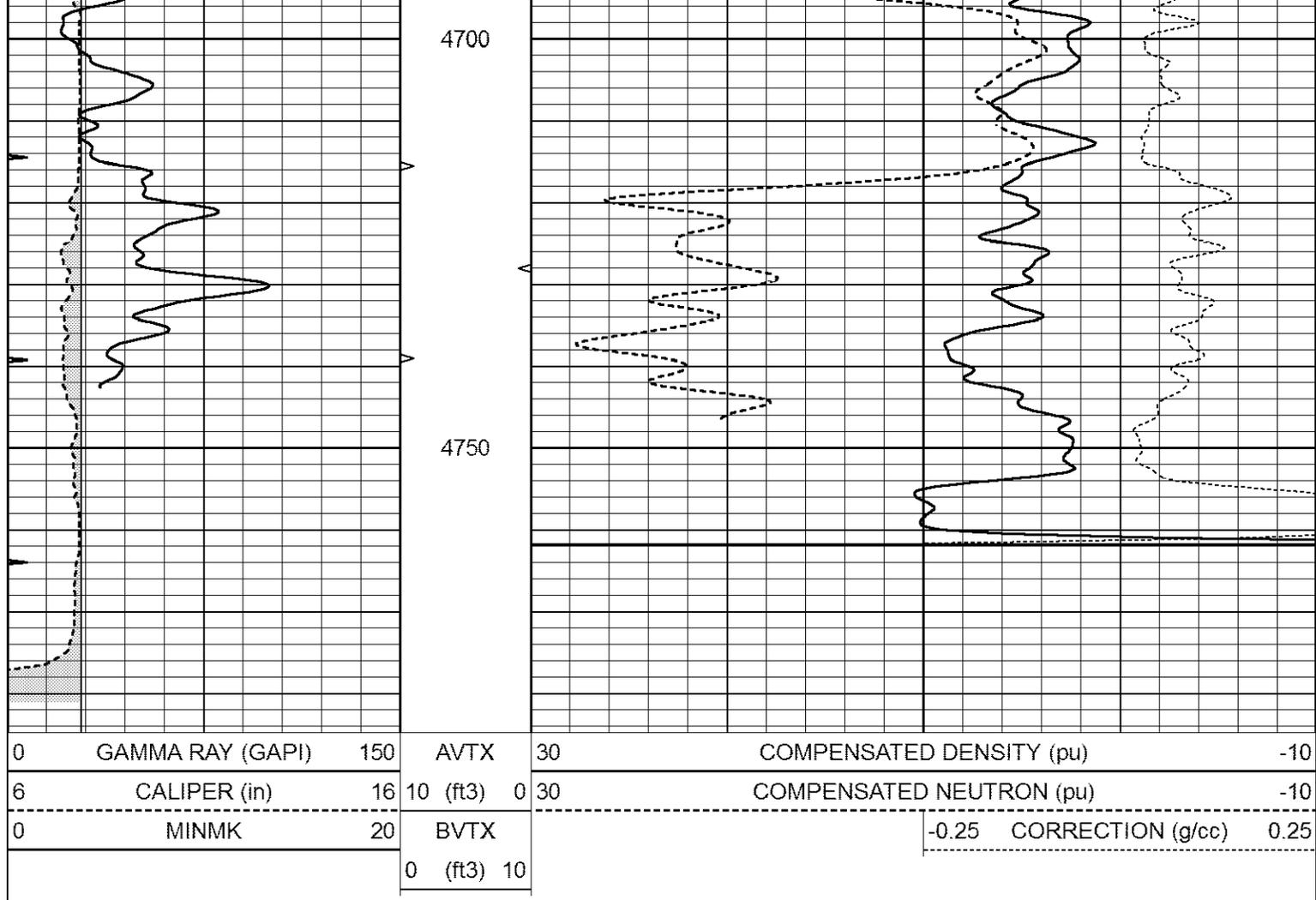


REPEAT SECTION

Database File 6241ddn.db
 Dataset Pathname pass2.1
 Presentation Format _den_neu
 Dataset Creation Thu Feb 17 12:13:09 2022
 Charted by Depth in Feet scaled 1:240

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





Calibration Report			
Database File	6241ddn.db		
Dataset Pathname	pass3.1		
Dataset Creation	Thu Feb 17 12:31:45 2022		

Dual Induction Calibration Report			
Serial-Model:	FW1410-56-Probe		
Surface Cal Performed:	Mon Jun 15 22:52:02 2020		
Downhole Cal Performed:	Tue Jul 25 12:15:37 2017		
After Survey Verification Performed:	Tue Jul 25 12:15:38 2017		

Surface Calibration								
Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.008	0.765	V	1.000	400.000	mmho/m	400.061	-3.201
Medium	-0.056	0.761	V	1.000	464.000	mmho/m	425.187	32.510
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		

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 Jan 19 17:50:08 2021

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 1.0 cps

Sensitivity: 0.5300 GAPI/cps