



COMPENSATED
DENSITY / NEUTRON
PE LOG

Company	AGV CORPORATION	Company	AGV CORPORATION
Well	BARBARA #1	Well	BARBARA #1
Field	BENFER	Field	BENFER
County	BUTLER	County	BUTLER
State	KANSAS	State	KANSAS
Location:	API # : 15-015-24153-0000 2310' FSL & 2110' FEL E/2 - NW - NW - SE	Other Services DIL/MEL SONIC	
Permanent Datum	GROUND LEVEL	Elevation	1342
Log Measured From	KELLY BUSHING		
Drilling Measured From	KELLY BUSHING		
	SEC 8 TWP 26S RGE 3E		
Date	9/21/21		
Run Number	ONE		
Depth Driller	3340		
Depth Logger	3338		
Bottom Logged Interval	3314		
Top Log Interval	1700		
Casing Driller	8 5/8"@218"		
Casing Logger	220		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES	N/A
Density / Viscosity	9.5/42		
pH / Fluid Loss	N/A		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.50@85F		
Rmf @ Meas. Temp	1.13@85F		
Rmc @ Meas. Temp	1.80@85F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	1.16@110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	10:00 A.M.		
Maximum Recorded Temperature	110F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	KENT ROBERTS		

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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.

15-015-24153-0000

Comments

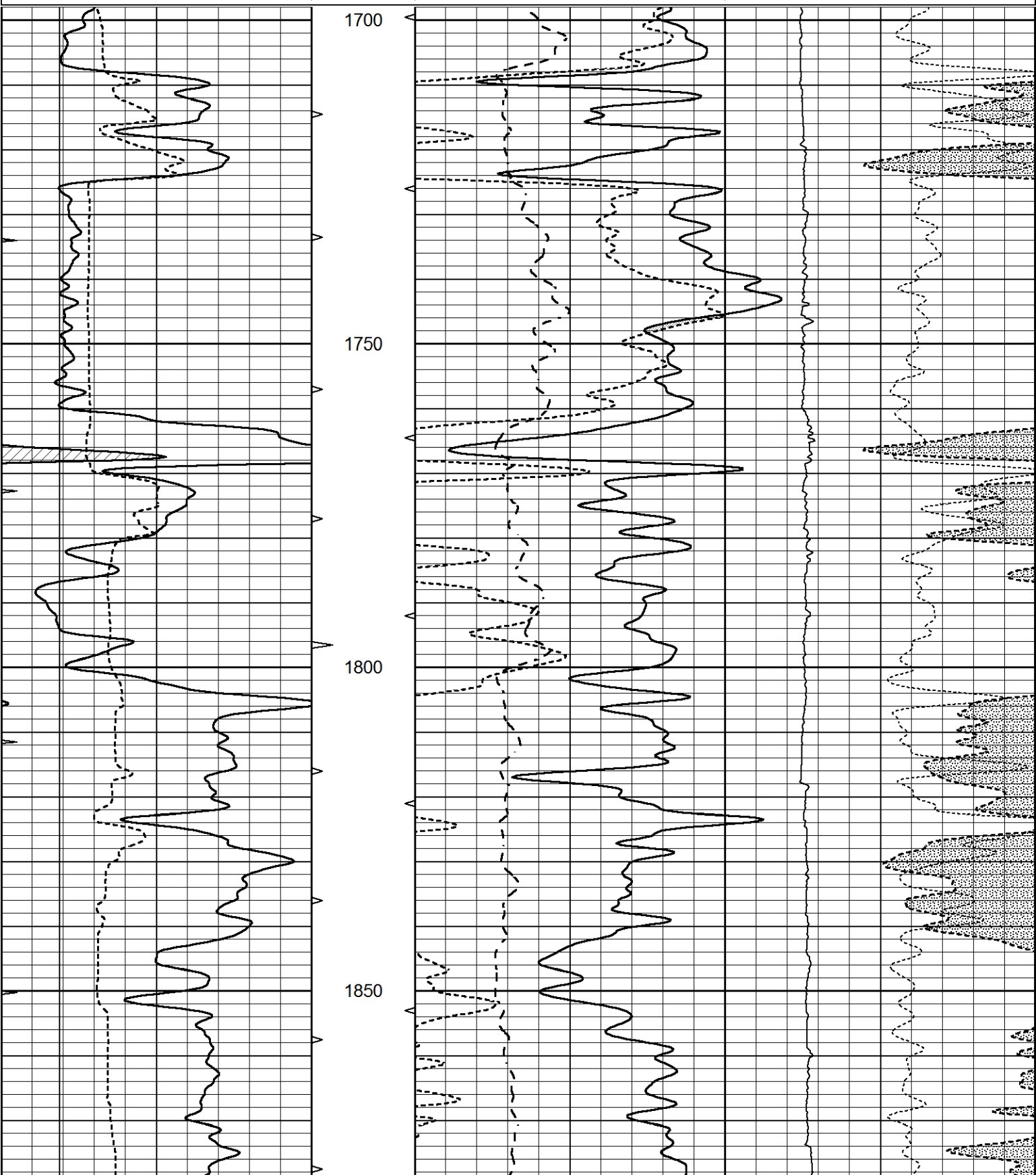
THANK YOU FOR USING ELI WIRELINE HAYS, KANSAS (785) 628-6395
DIRECTIONS
BENTON, KS., & HWY 254 EXIT, N. 100 YARDS TO FRONTAGE RD THAT GOES WEST 1/2 MILE,
THEN NORTH 1/8, W. INTO

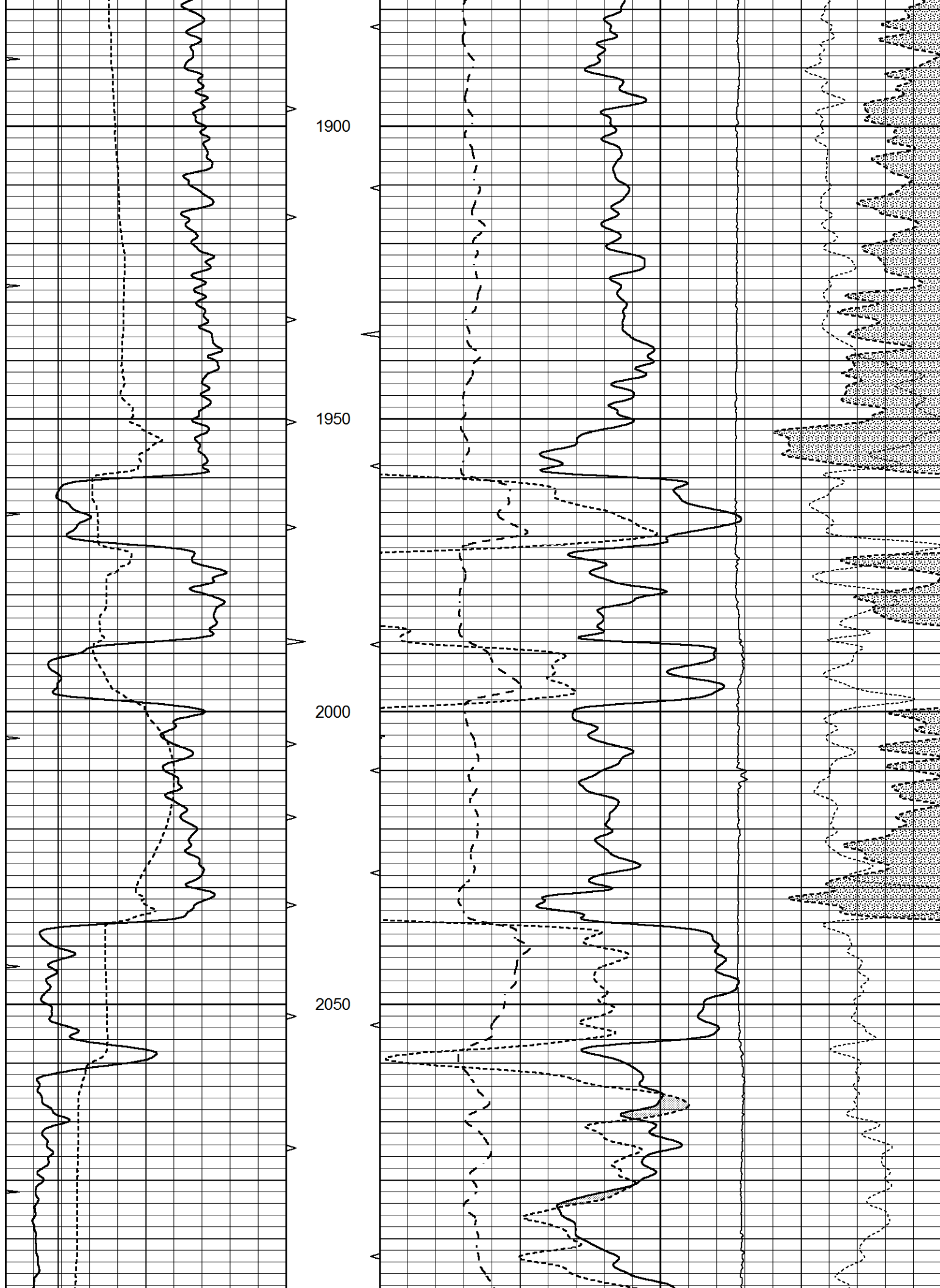


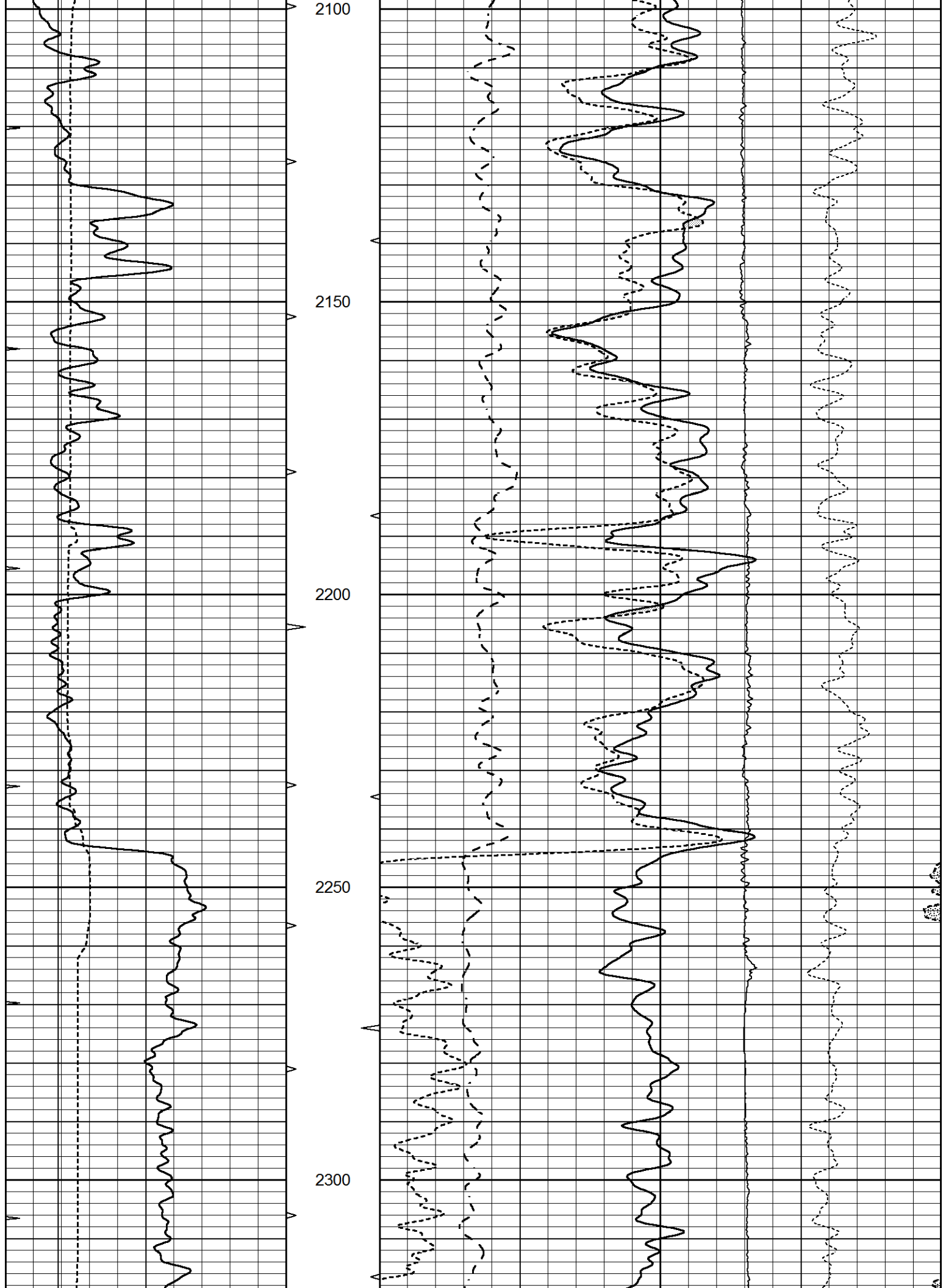
MAIN SECTION

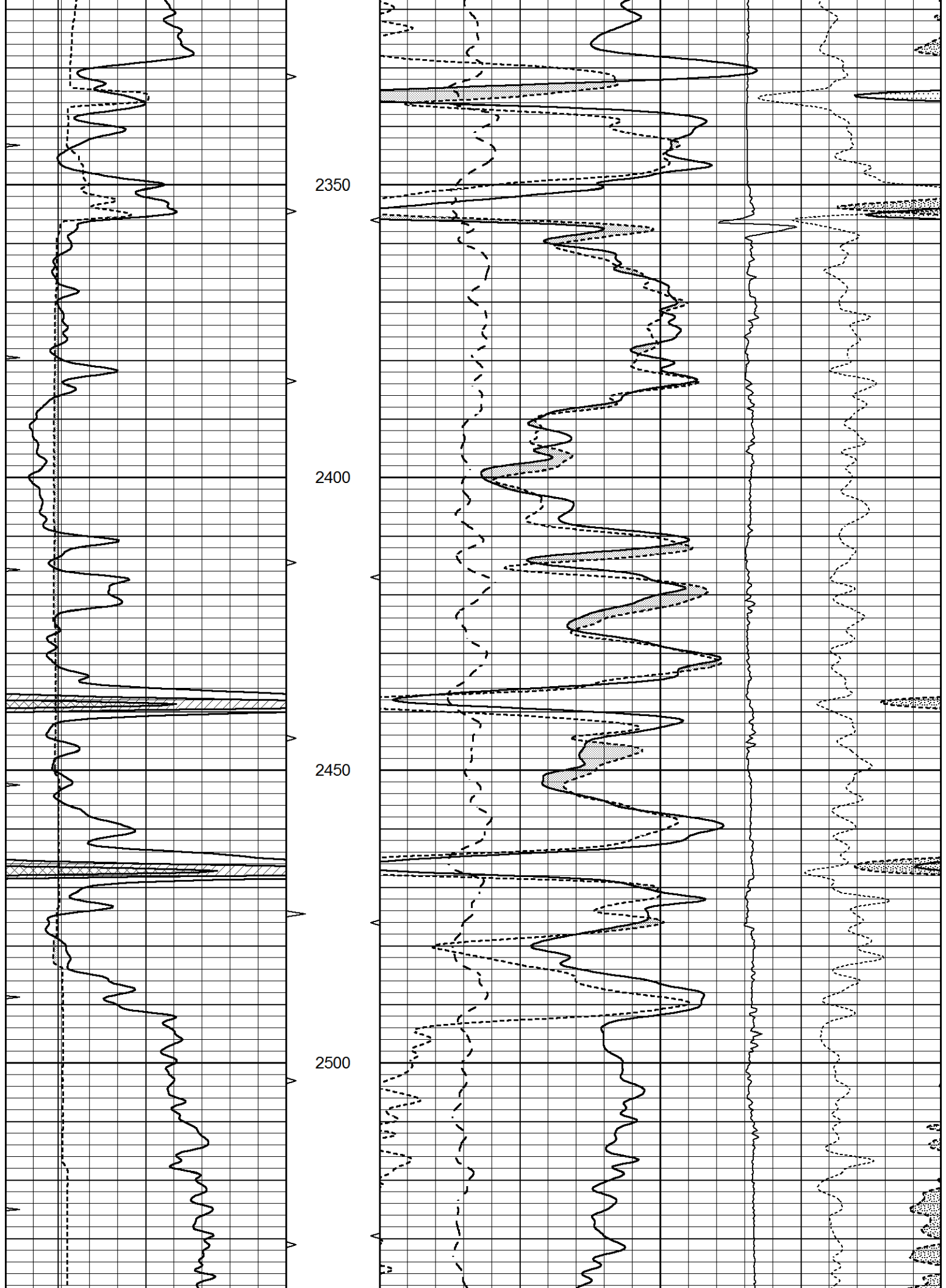
Database File	5660ddn.db
Dataset Pathname	pass3.2M
Presentation Format	ldt_neu
Dataset Creation	Tue Sep 21 18:54:02 2021
Charted by	Depth in Feet scaled 1:240

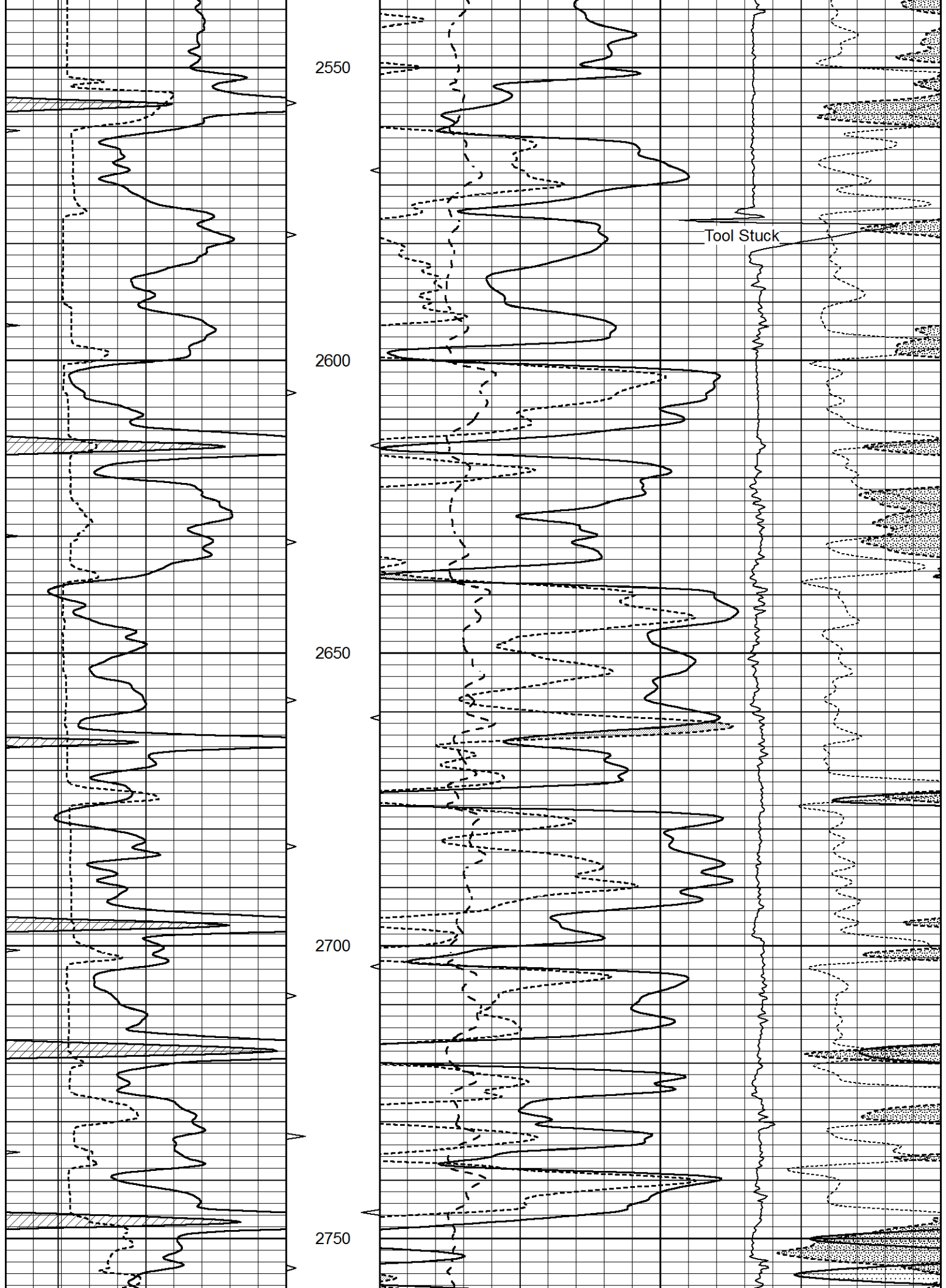
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10		0	LTEN (lb) 5000

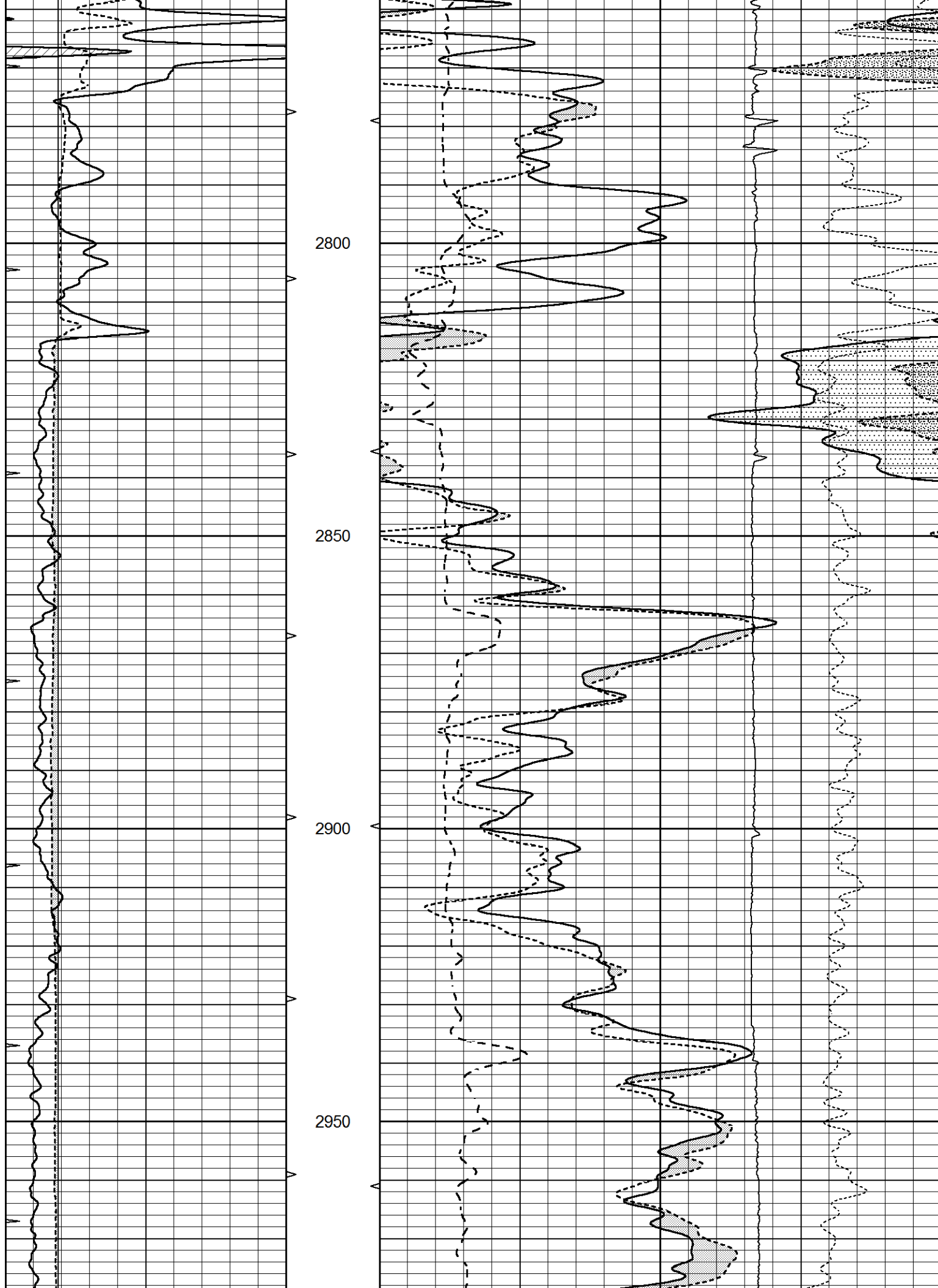


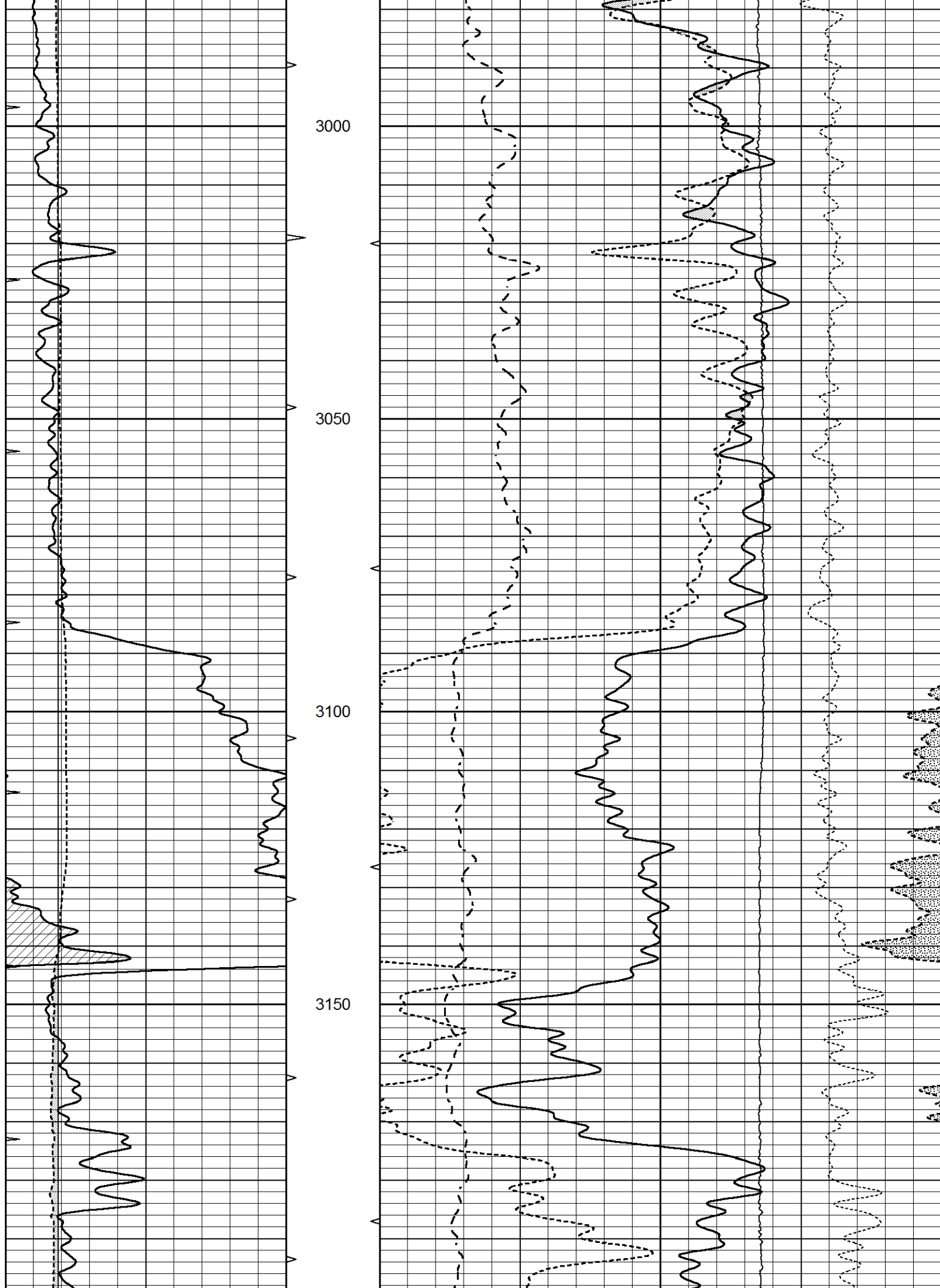


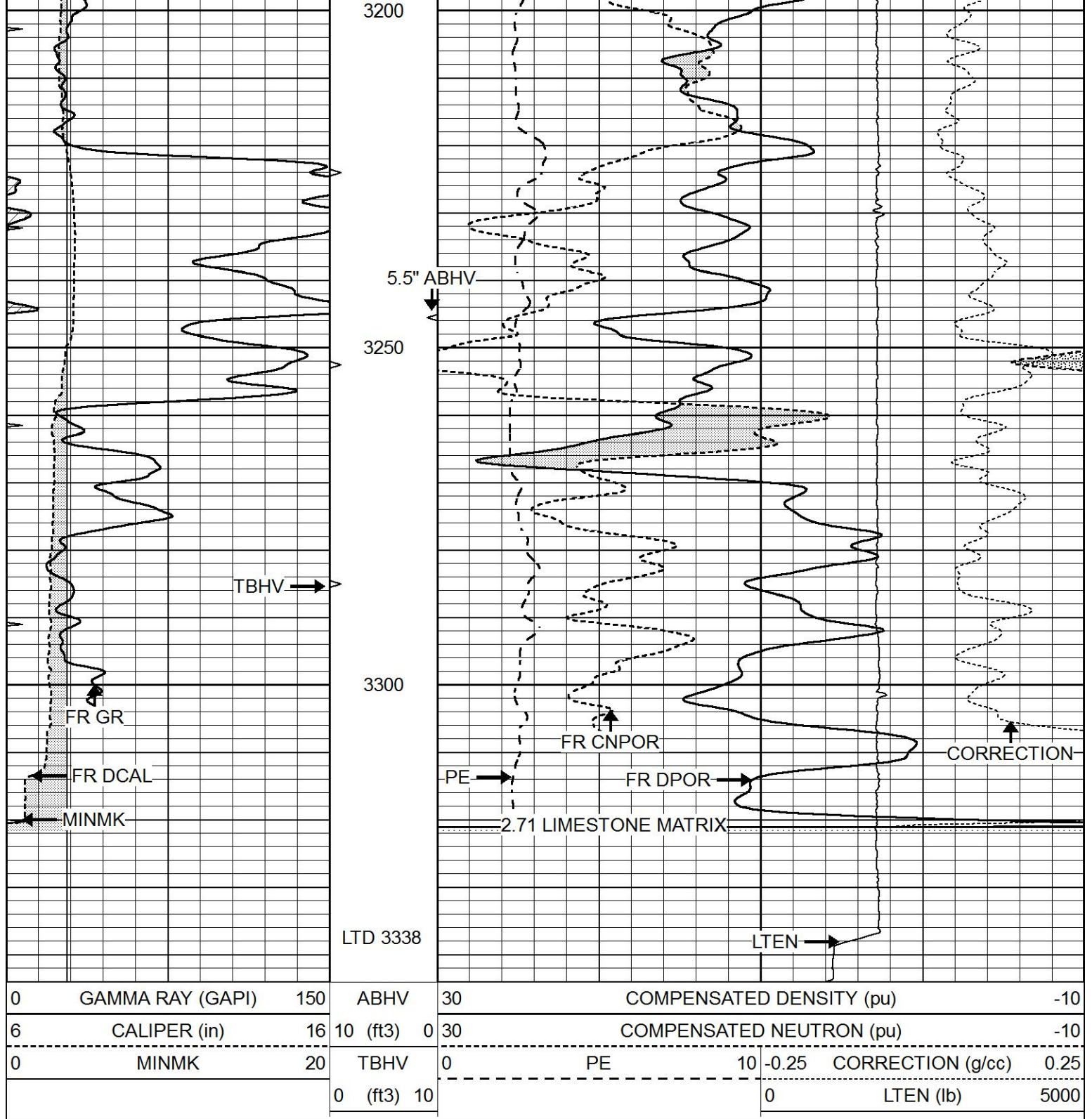








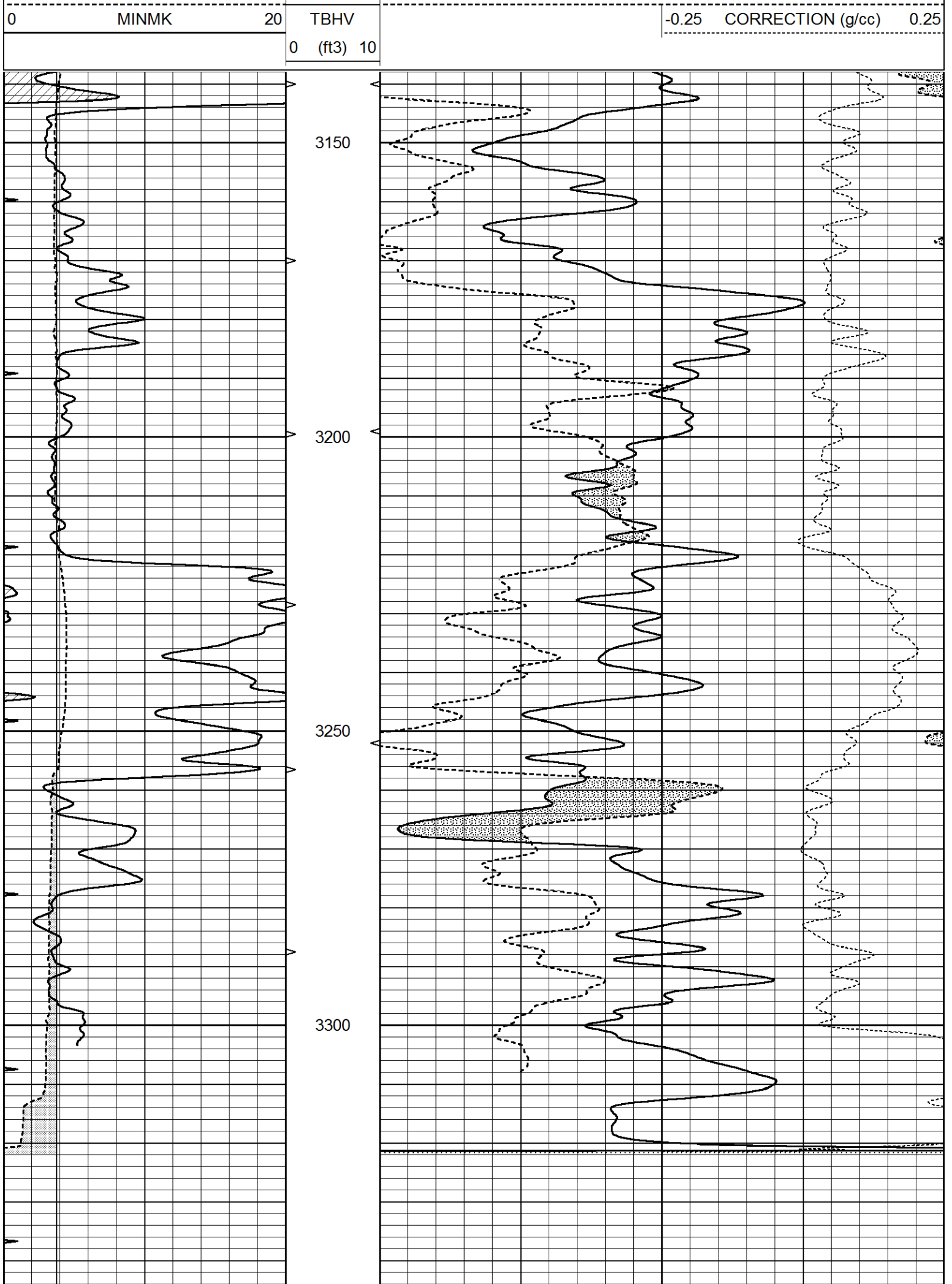




REPEAT SECTION

Database File 5660ddn.db
 Dataset Pathname pass2.1R
 Presentation Format den_neu
 Dataset Creation Tue Sep 21 10:48:03 2021
 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	COMPENSATED NEUTRON (pu)	-10



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					

Calibration Report	
Database File	5660ddn.db
Dataset Pathname	pass3.1M
Dataset Creation	Tue Sep 21 11:40:48 2021

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Tue Sep 21 11:13:53 2021
Downhole Cal Performed:	Thu Mar 12 11:45:10 2020
After Survey Verification Performed:	Thu Mar 12 11:45:00 2020

Surface Calibration								
			Readings		References		Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	650.000	-8.000
Medium	0.039	0.728	V	0.000	464.000	mmho/m	680.000	-50.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration								
	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	mmho-m		

After Survey Verification			Readings			Targets			Results		
	Zero	Cal		Zero	Cal		m'	b'			
Deep	0.000	0.000	mmho/m	0.000	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					
		0.000	mmho-m		4000.000	mmho-m					

Litho Density Calibration Report	
Serial: 004	Model: PRB

Master Calibration		Performed Tue May 18 11:02:48 2021			
	Background	Magnesium	Aluminum	Aluminum+Fe	
Window 1	1187.1	10004.0	3142.5	2810.8	cps
Window 2	1084.9	8556.6	2749.3	2502.4	cps
Window 3	923.1	5129.8	1819.8	1719.3	cps
Window 4	263.5	263.6	259.7	262.8	cps
Long Space	0.0	7471.7	1664.4	1417.5	cps
Short Space	1.5	984.9	645.6	561.2	cps
Phi		1.7100	0.5000	0.0000	c/cc

Rho	1.7100	2.5900	0.0000	g/cc
Pe	2.0000	2.7500	5.7900	

Rib Angle	: 44.3	Rib Slope	: 0.976	Density/Spine Ratio	: 0.564
Spine Angle	: 74.3	Spine Slope	: 3.555	Spine Intercept	: -15.6

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			
Detector	Readings	Measured	Target
Short Space	cps		
Long Space	cps	pu	pu

Gamma Ray Calibration Report

Serial Number:	070558	
Tool Model:	OPEN_GR	
Performed:	Fri Sep 03 05:25:49 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.2800	GAPI/cps

