

COMPENSATED
DENSITY/NEUTRON
PE LOG

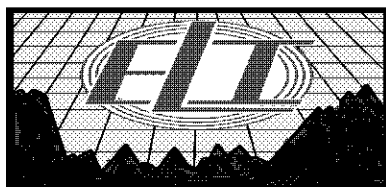
Company	PICKRELL DRILLING COMPANY, INC.	Company	PICKRELL DRILLING COMPANY, INC.
Well	#1 THISSEN "D"	Well	#1 THISSEN "D"
Field	HEDRICK	Field	HEDRICK
County	KINGMAN	County	KINGMAN
State	KANSAS	State	KANSAS
Location:	API # : 15-095-22322-0000 2263' FSL & 900' FEL	Other Services DIL/MEL	
Permanent Datum	GROUND LEVEL Elevation 1437	Elevation	
Log Measured From	KELLY BUSHING 7' A.G.L	K.B. 1444 D.F. 1442 G.L. 1437	
Drilling Measured From	KELLY BUSHING		
SEC 24 TWP 28S RGE 6W			
Date	6/14/18		
Run Number	ONE		
Depth Driller	4000		
Depth Logger	4000		
Bottom Logged Interval	3976		
Top Log Interval	2700		
Casing Driller	8 5/8" @ 220		
Casing Logger	220		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8000 PPM	
Density / Viscosity	9.3/57		
pH / Fluid Loss	9.0/9.6		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.44 @ 88F		
Rmf @ Meas. Temp	.33 @ 88F		
Rmc @ Meas. Temp	.52 @ 88F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.33 @ 116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	116F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	AARON YOUNG		

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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.

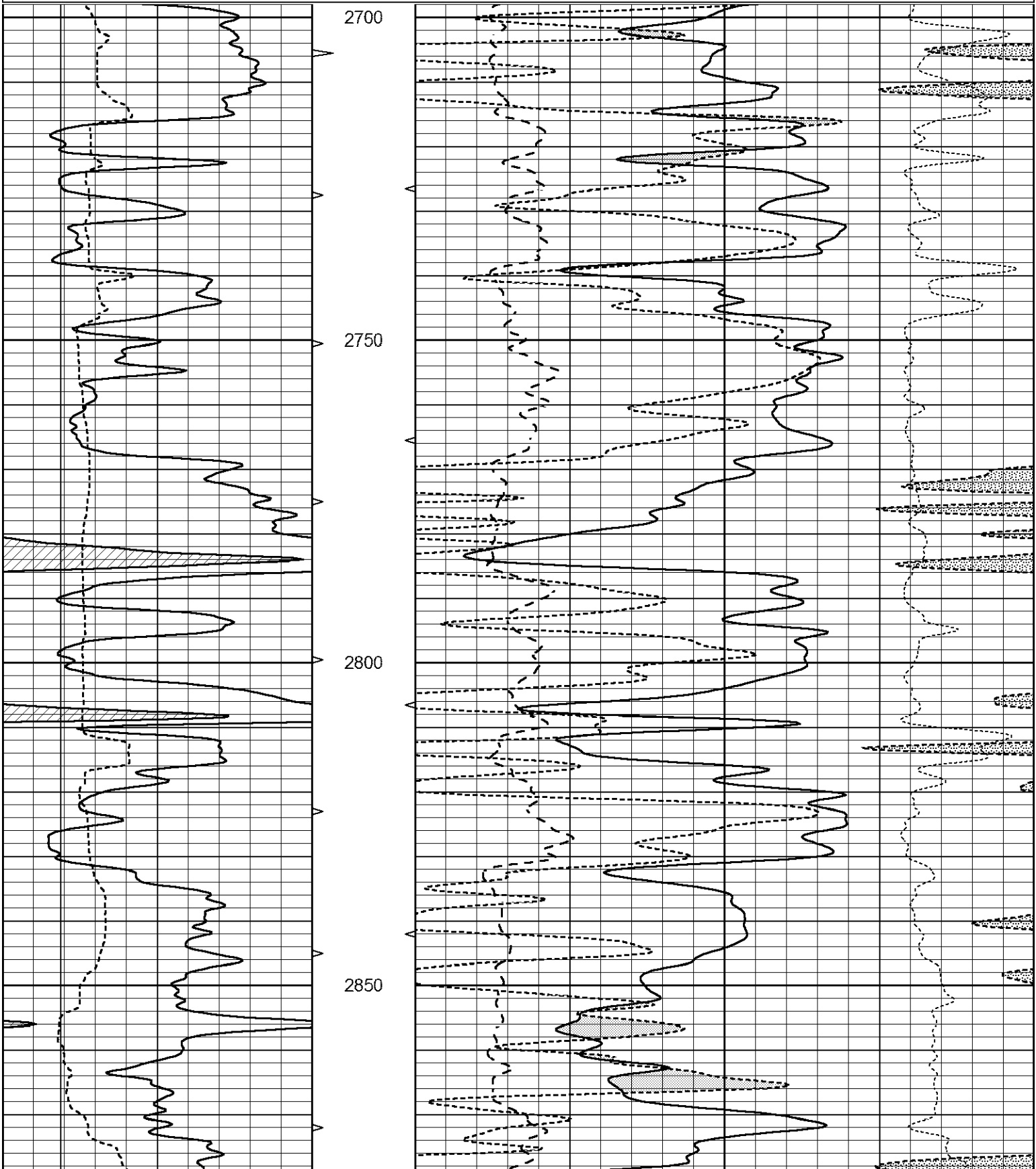
Comments

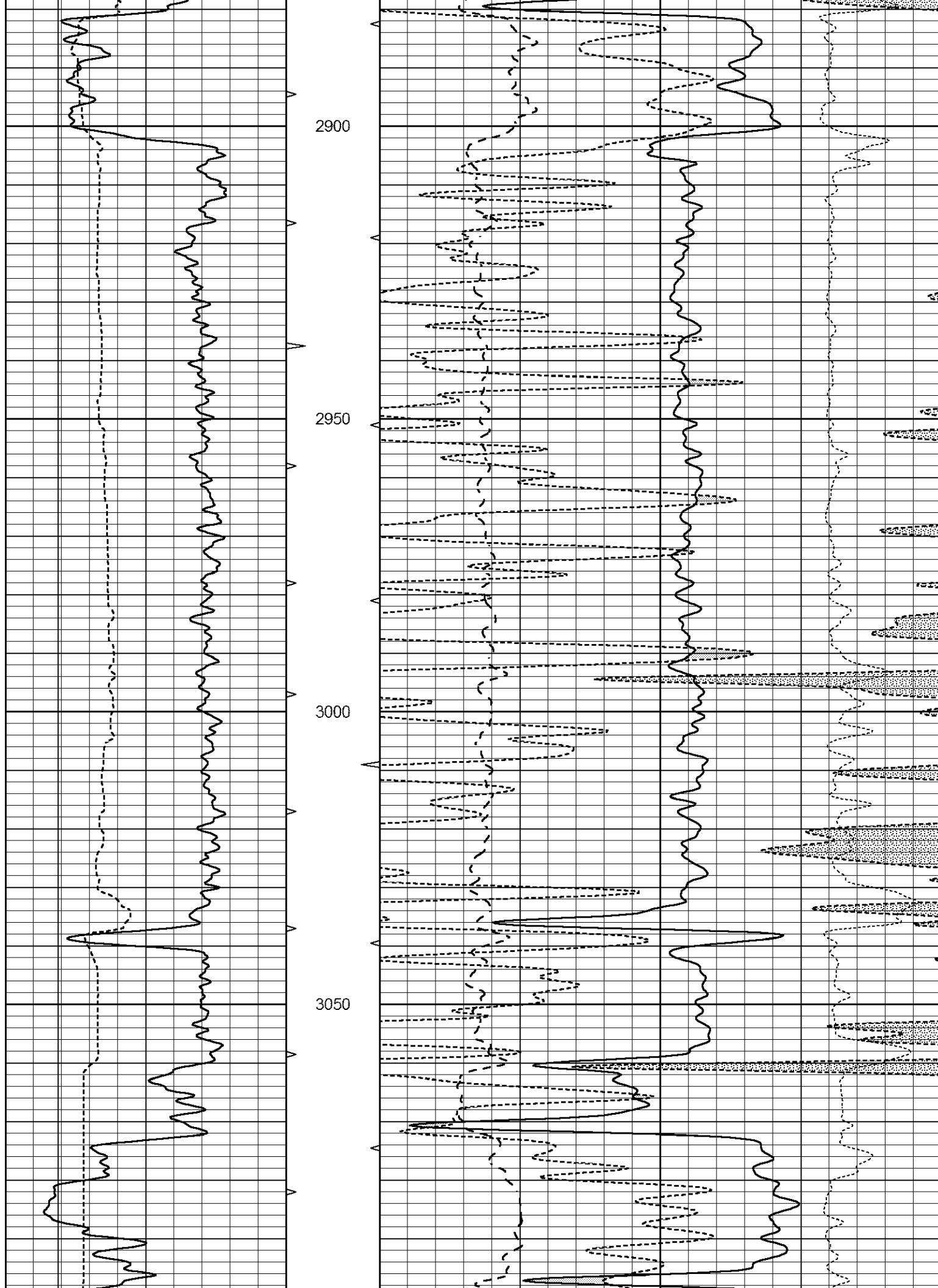
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
MURDOCK, KS. - 1 1/2 SOUTH TO RD. 40 - 1/2 EAST - NORTH INTO

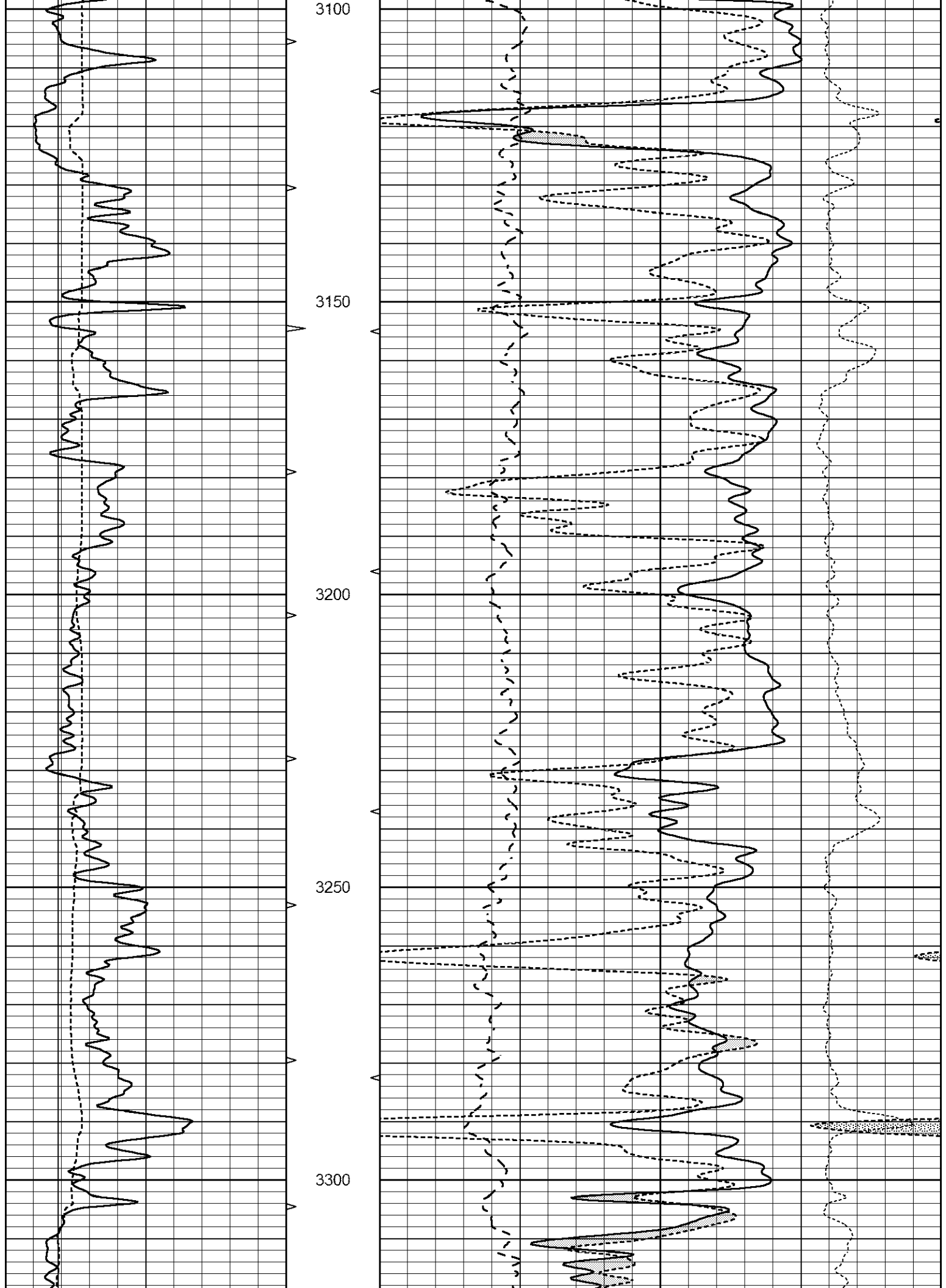


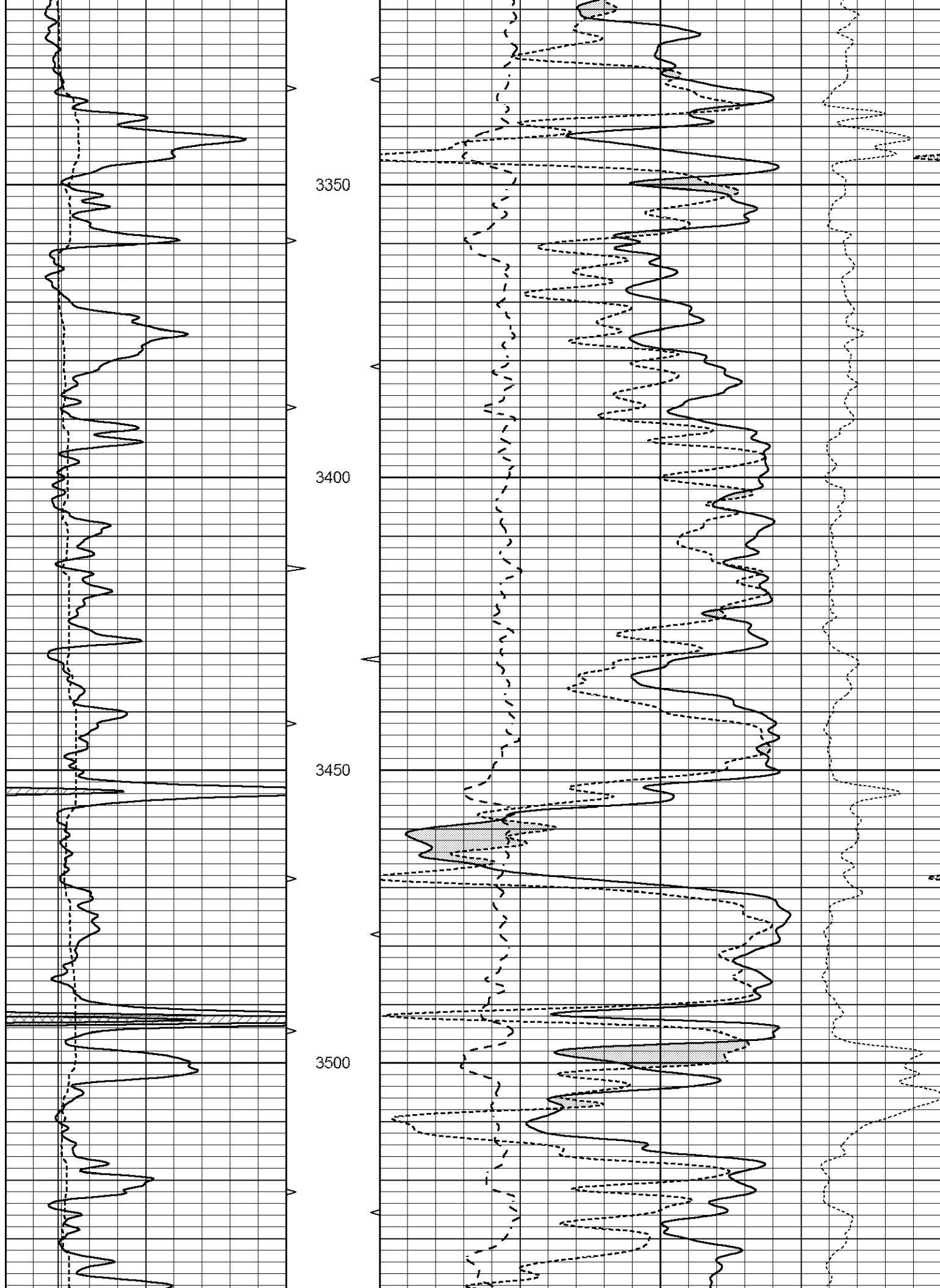
MAIN SECTION

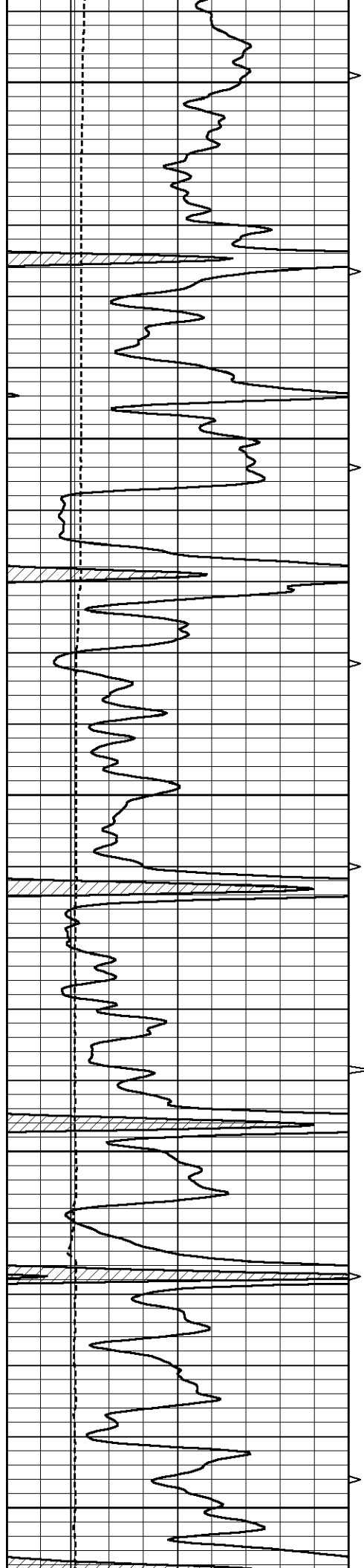
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10 -0.25
			0 (ft3) 10	CORRECTION (g/cc) 0.25		











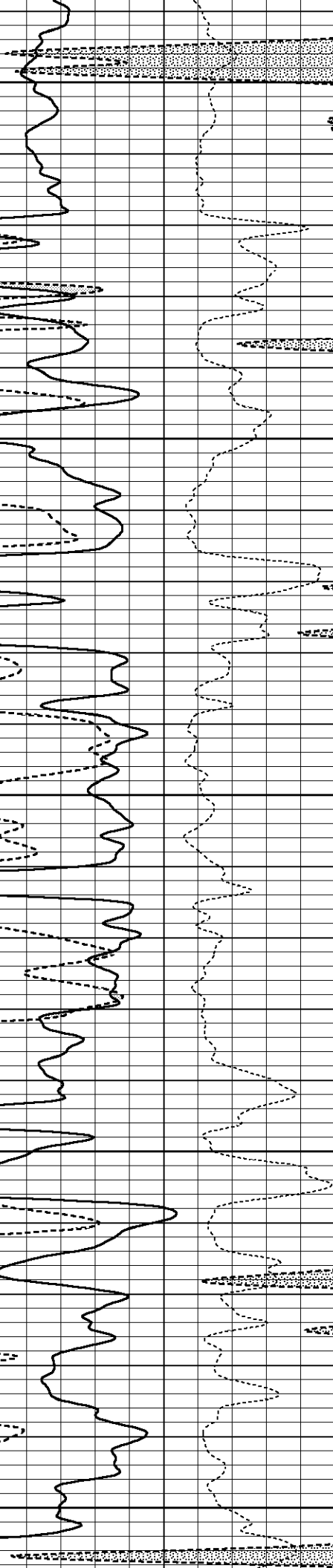
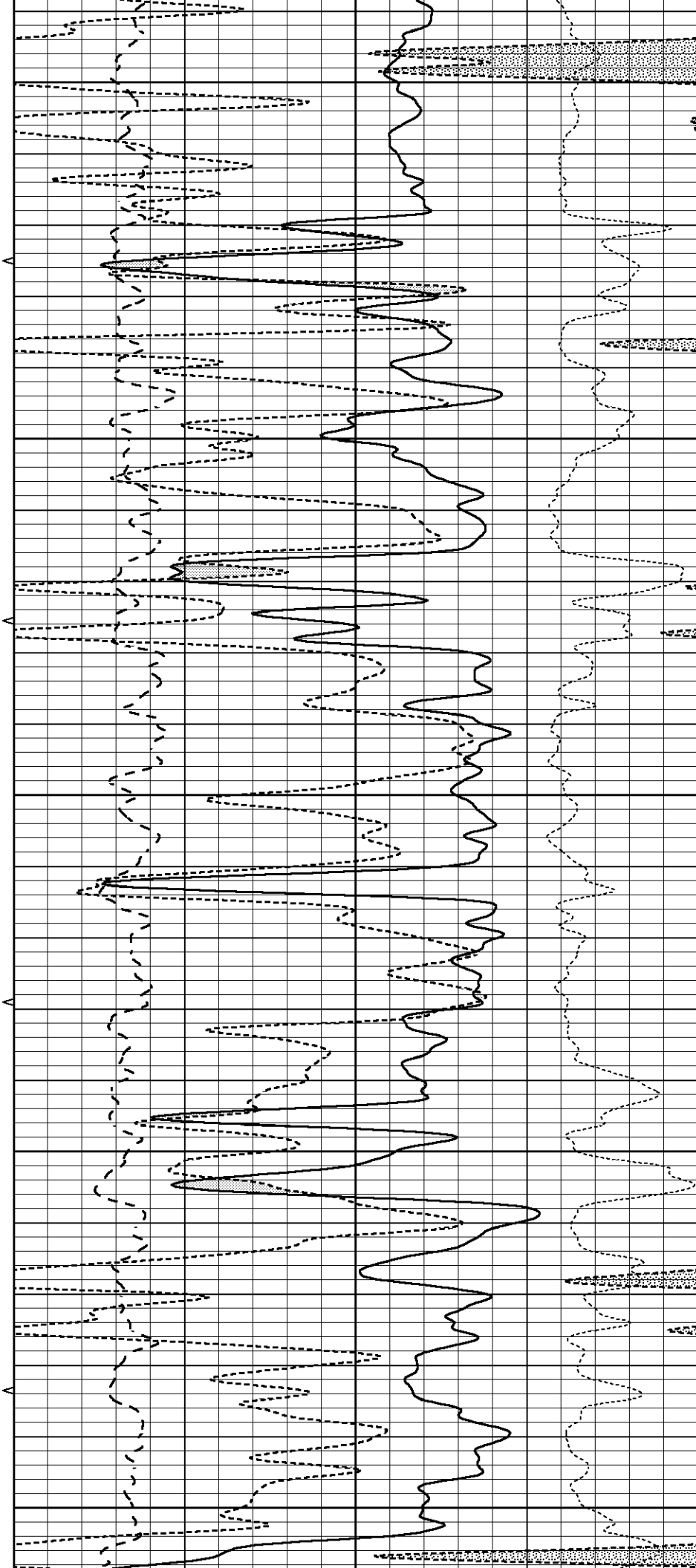
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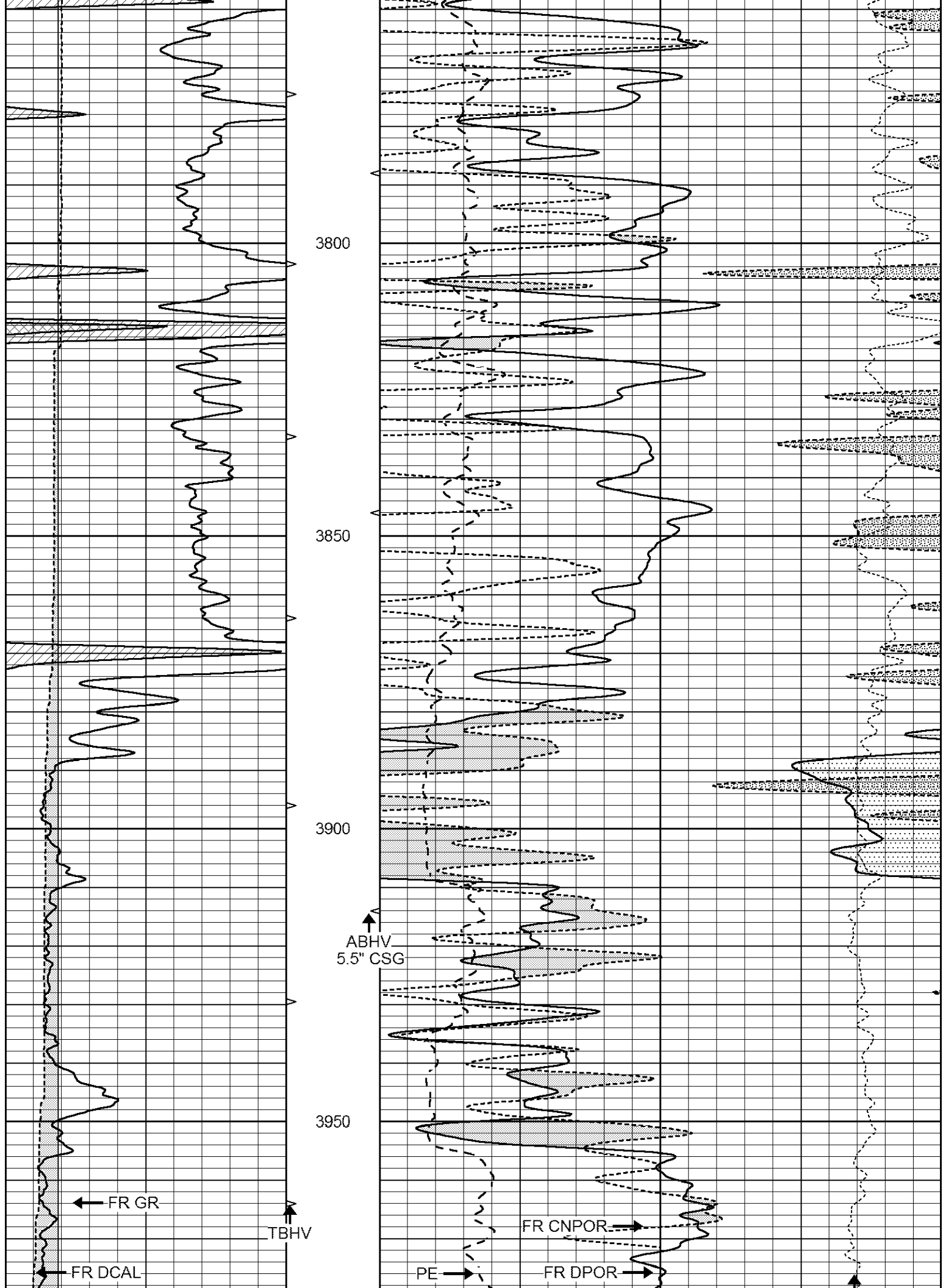
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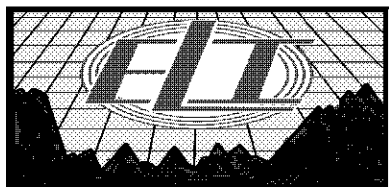
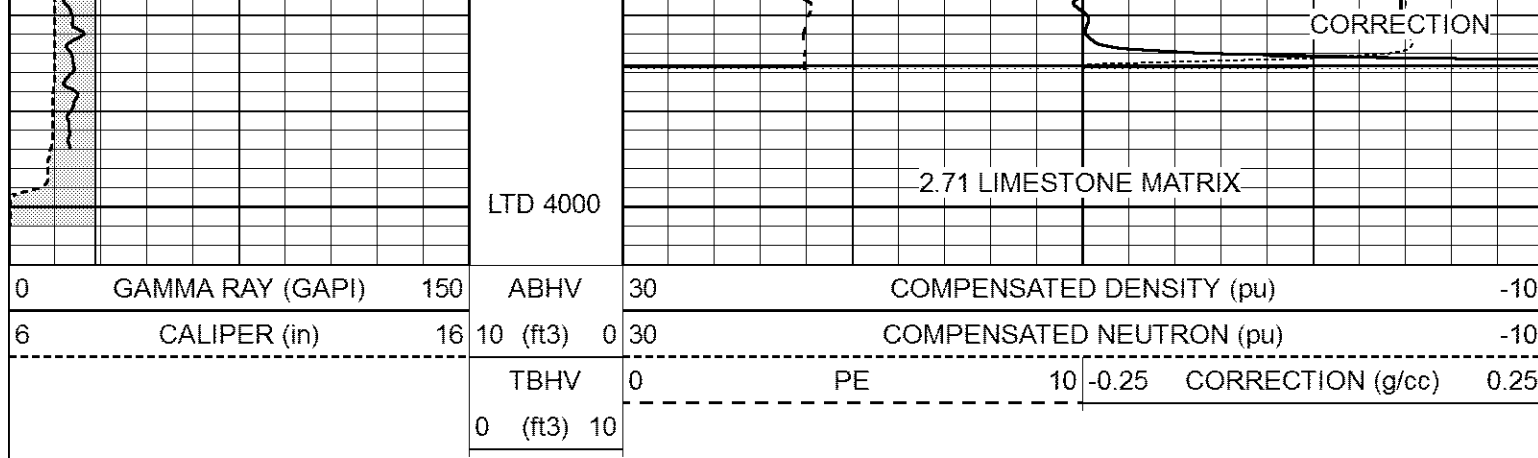
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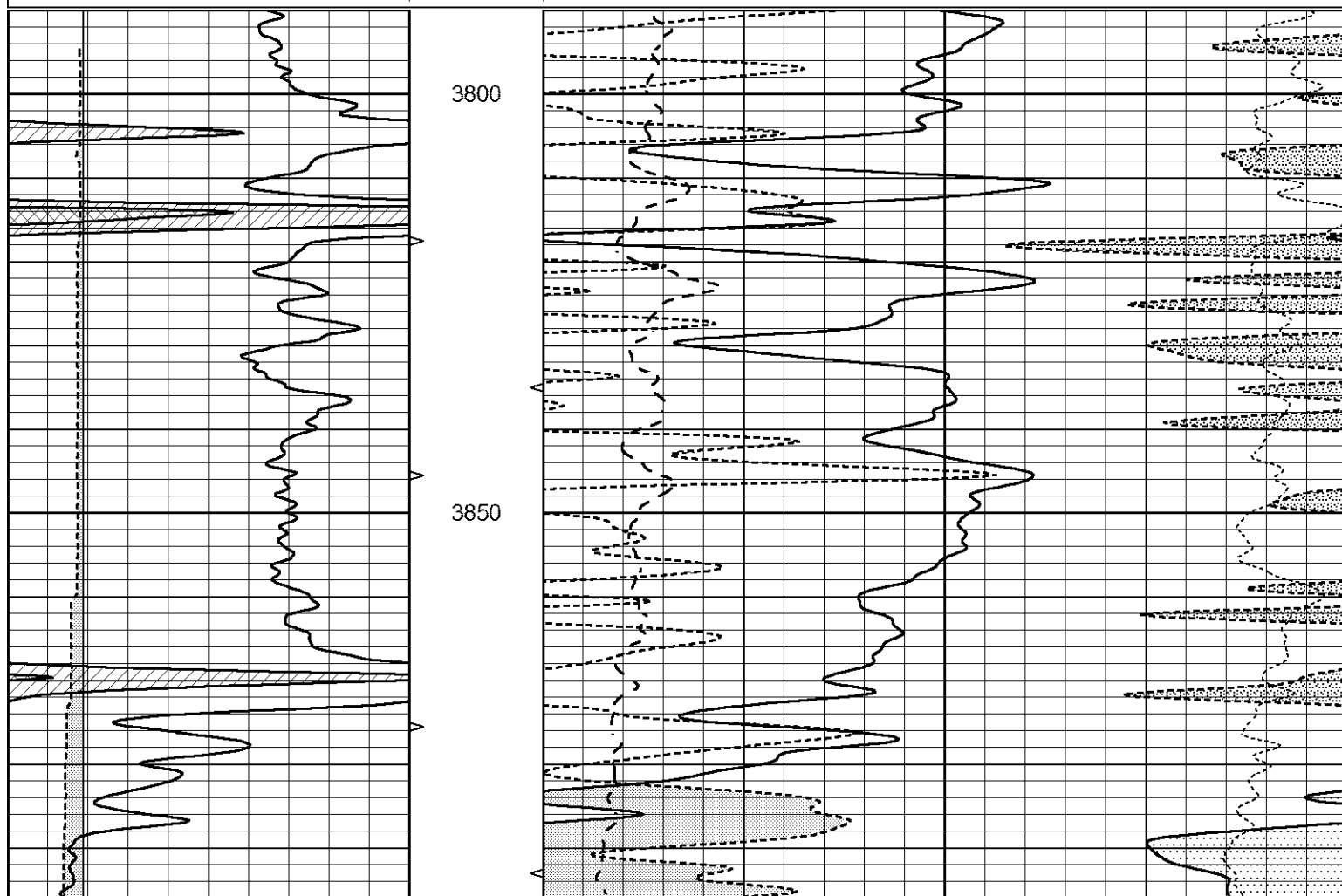


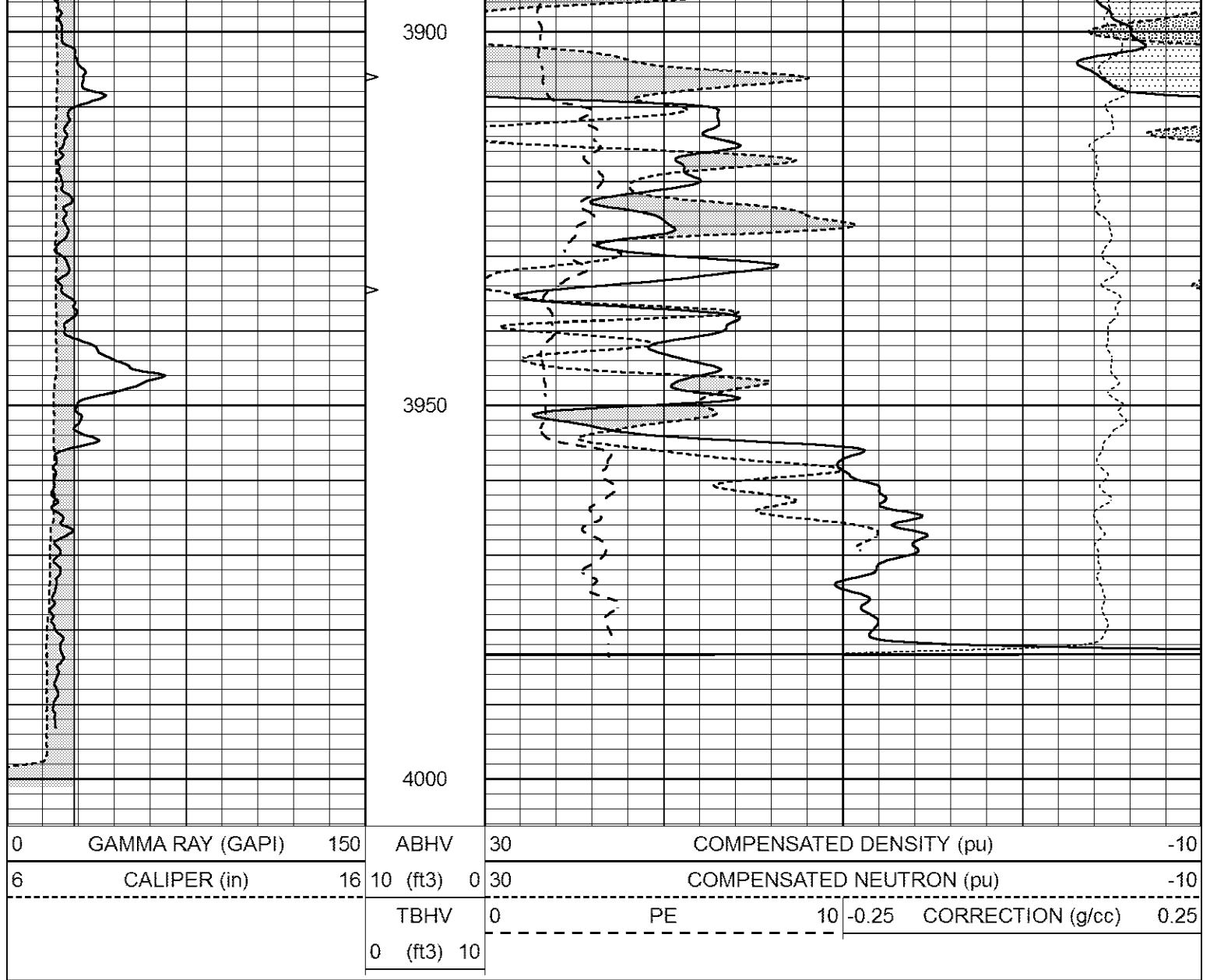


REPEAT SECTION

Database File 2506ddn8.db
 Dataset Pathname pass2.2
 Presentation Format _ldt_neu
 Dataset Creation Thu Jun 14 06:32:49 2018
 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
			TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			





Calibration Report

Database File 2506ddn8.db
 Dataset Pathname pass2.2
 Dataset Creation Thu Jun 14 06:32:49 2018

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Mon May 22 14:23:32 2017
 Downhole Cal Performed: Thu Mar 12 09:29:20 2015
 After Survey Verification Performed: Thu Mar 12 09:29:20 2015

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
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

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		3500.000	Ohm-m			
		0.001	V		20.000	Ohm-m			
		-7.481	V		3000.000	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			
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:		070558							
Tool Model:		Probe1							
Performed:		Tue Jul 25 12:16:33 2017							
Calibrator Value:		1.0		GAPI					
Background Reading:		0.0		cps					
Calibrator Reading:		1.0		cps					
Sensitivity:		0.4000		GAPI/cps					