



COMPENSATED DENSITY/NEUTRON PE LOG

Company		EDISON OPERATING COMPANY, LLC.	
Well		KUHN #1-17	
Field		FT. ZARAH NORTH	
County		BARTON	
State		KANSAS	
Location:		API # : 15-009-26277-0000	
SEC 17 TWP 19S RGE 12W		1829' FSL & 1451' FEL	
Permanent Datum		GROUND LEVEL Elevation 1874	
Log Measured From		KELLY BUSHING 10' A.G.L	
Drilling Measured From		KELLY BUSHING	
Other Services		DIL/MEL SONIC	
Elevation		K.B. 1884 D.F. 1882 G.L. 1874	
Date	11/5/19		
Run Number	ONE		
Depth Driller	3575		
Depth Logger	3575		
Bottom Logged Interval	3551		
Top Log Interval	2600		
Casing Driller	8 5/8" @ 392'		
Casing Logger	392'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.4/50		
pH / Fluid Loss	10.5/14.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.30 @ 70F		
Rmf @ Meas. Temp	.22 @ 70F		
Rmc @ Meas. Temp	.36 @ 70F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.18 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	112F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	ADAM KENNEDY		

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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

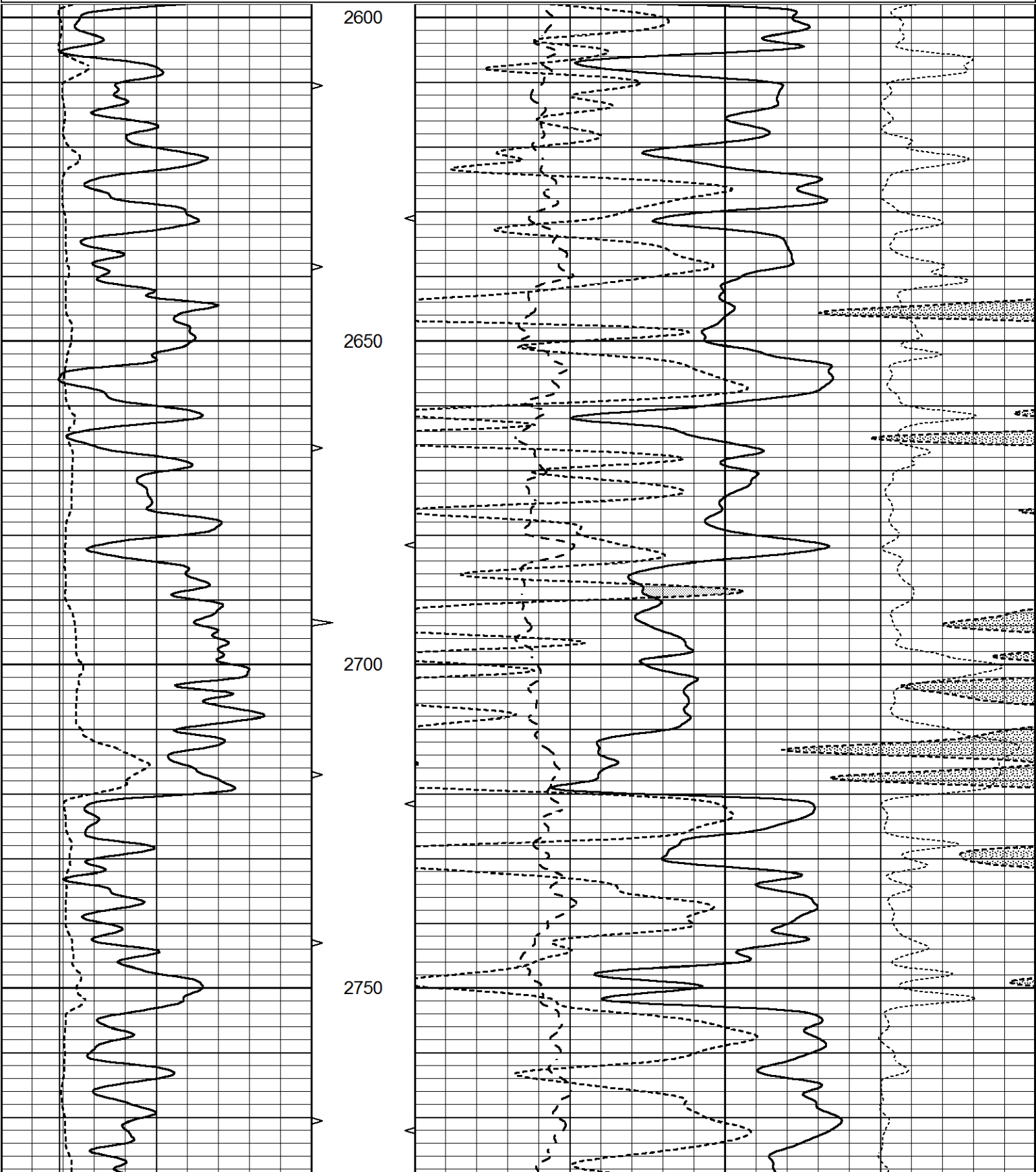
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
GREAT BEND, KS. - 2 NORTH ON HWY 156 - EAST INTO

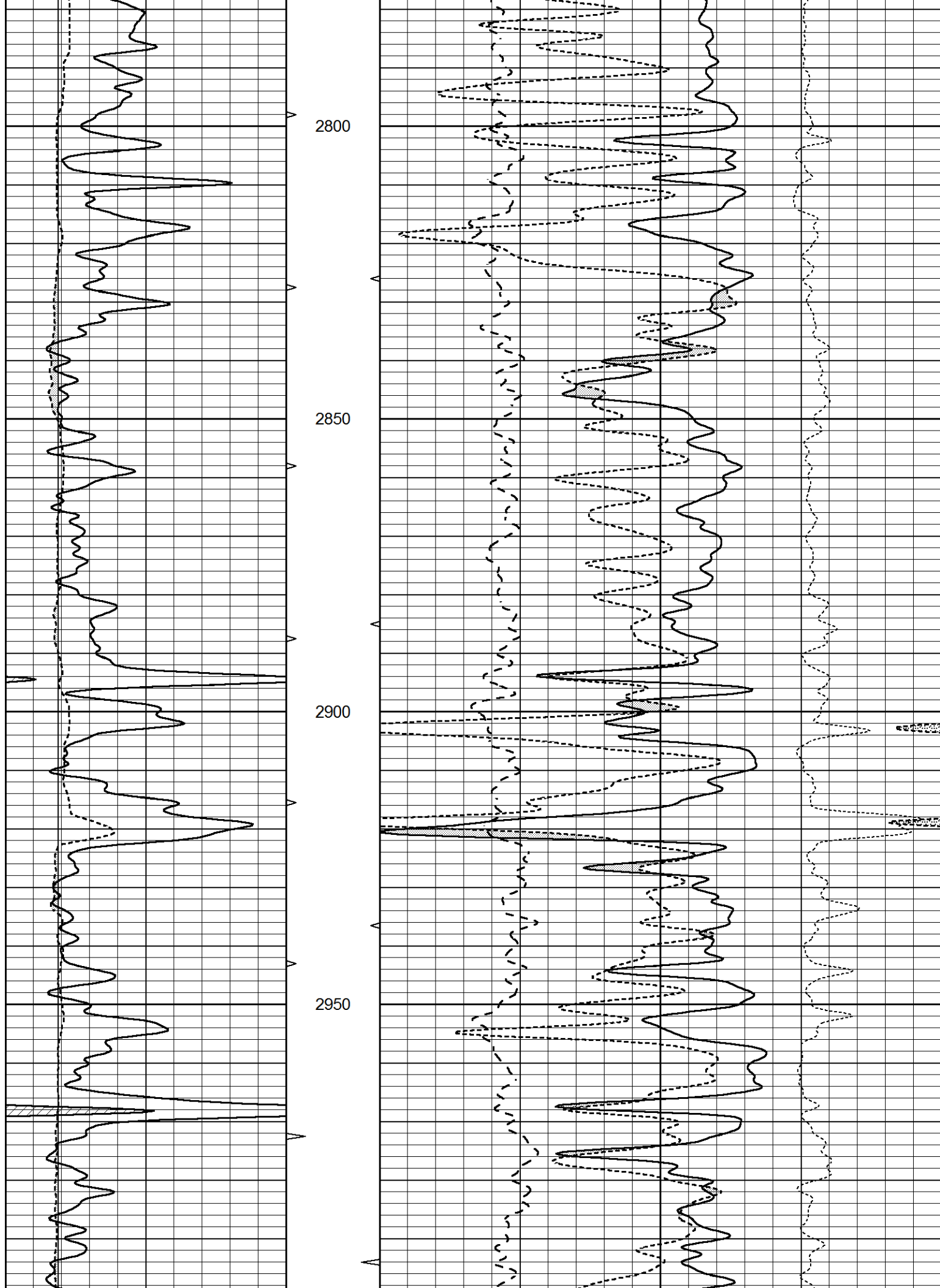


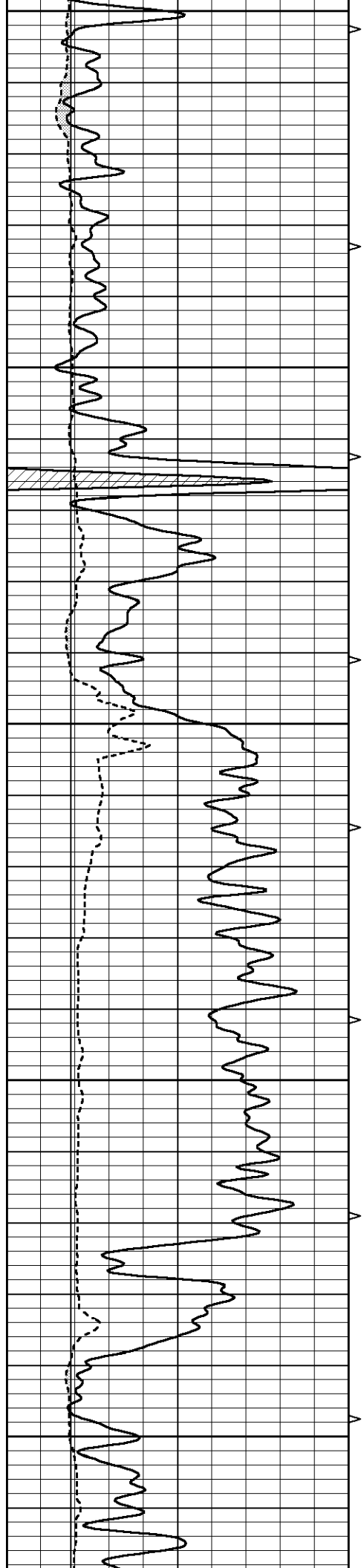
MAIN SECTION

Database File	4429pe.db
Dataset Pathname	pass3.1
Presentation Format	_ldt_neu
Dataset Creation	Tue Nov 05 14:58:28 2019
Charted by	Depth in Feet scaled 1:240

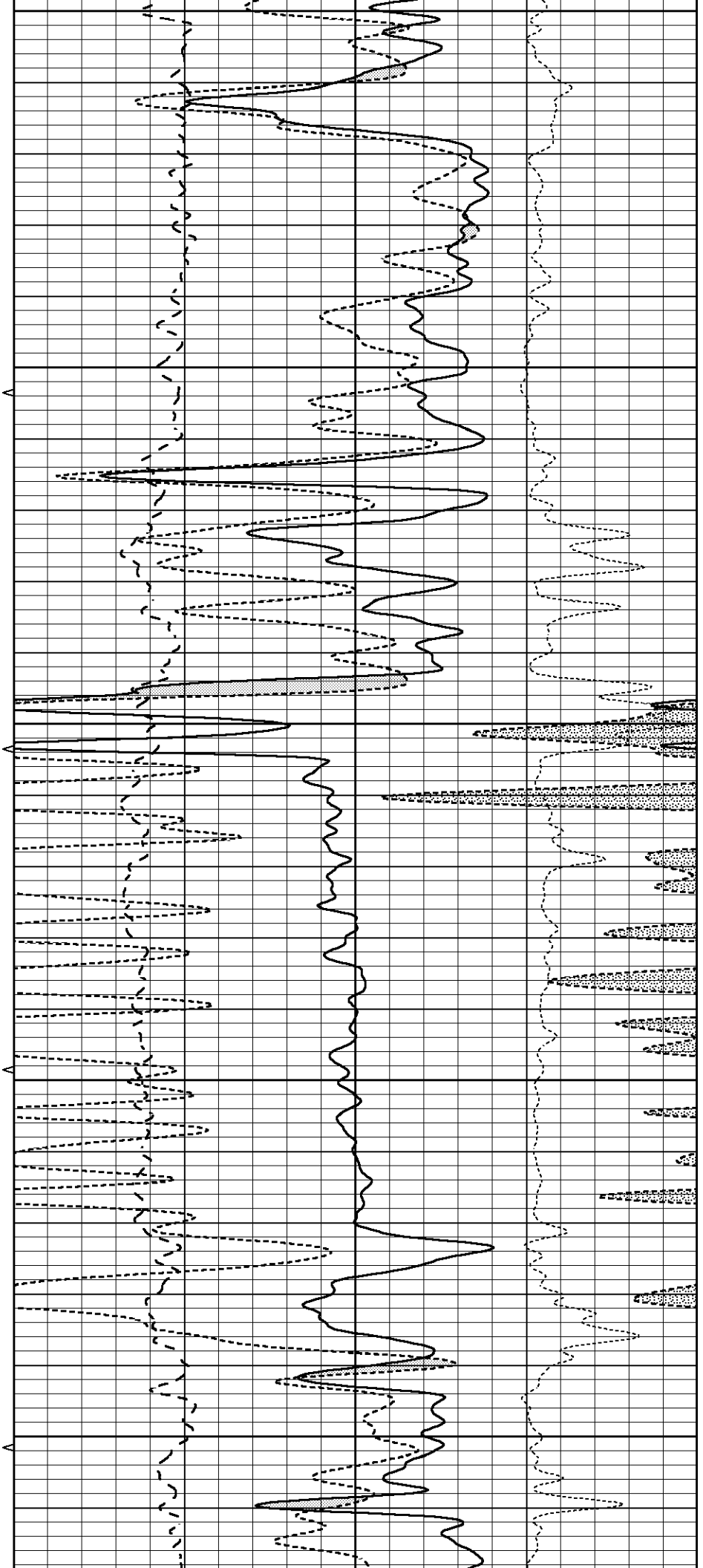
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)	-10
			TBHV	0	PE	10 -0.25
			0 (ft3)	10	CORRECTION (g/cc)	0.25

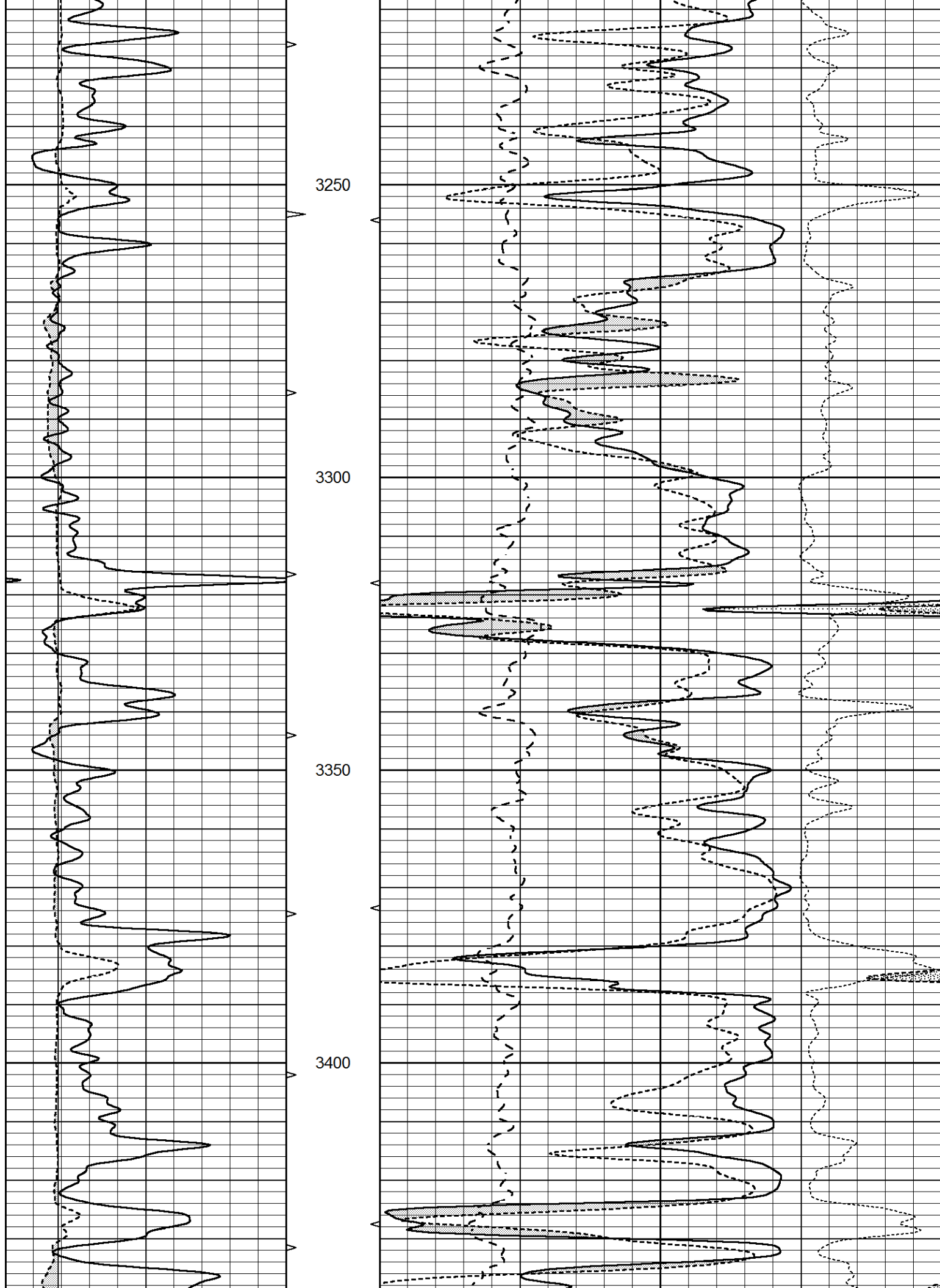


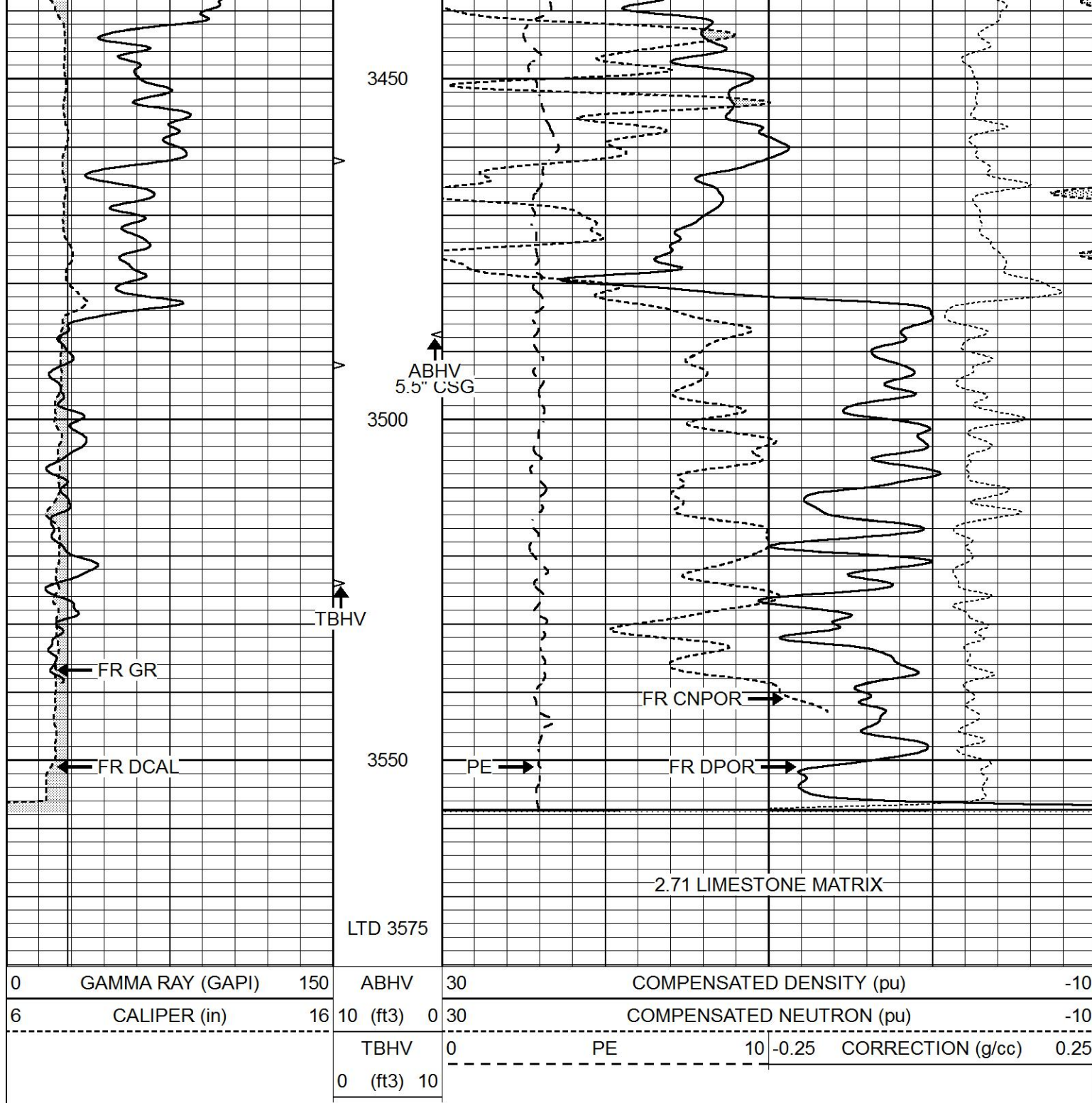




3000
3050
3100
3150
3200







REPEAT SECTION

Database File 4429pe.db
 Dataset Pathname pass2.1
 Presentation Format _ldt_neu
 Dataset Creation Tue Nov 05 15:00:12 2019
 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						

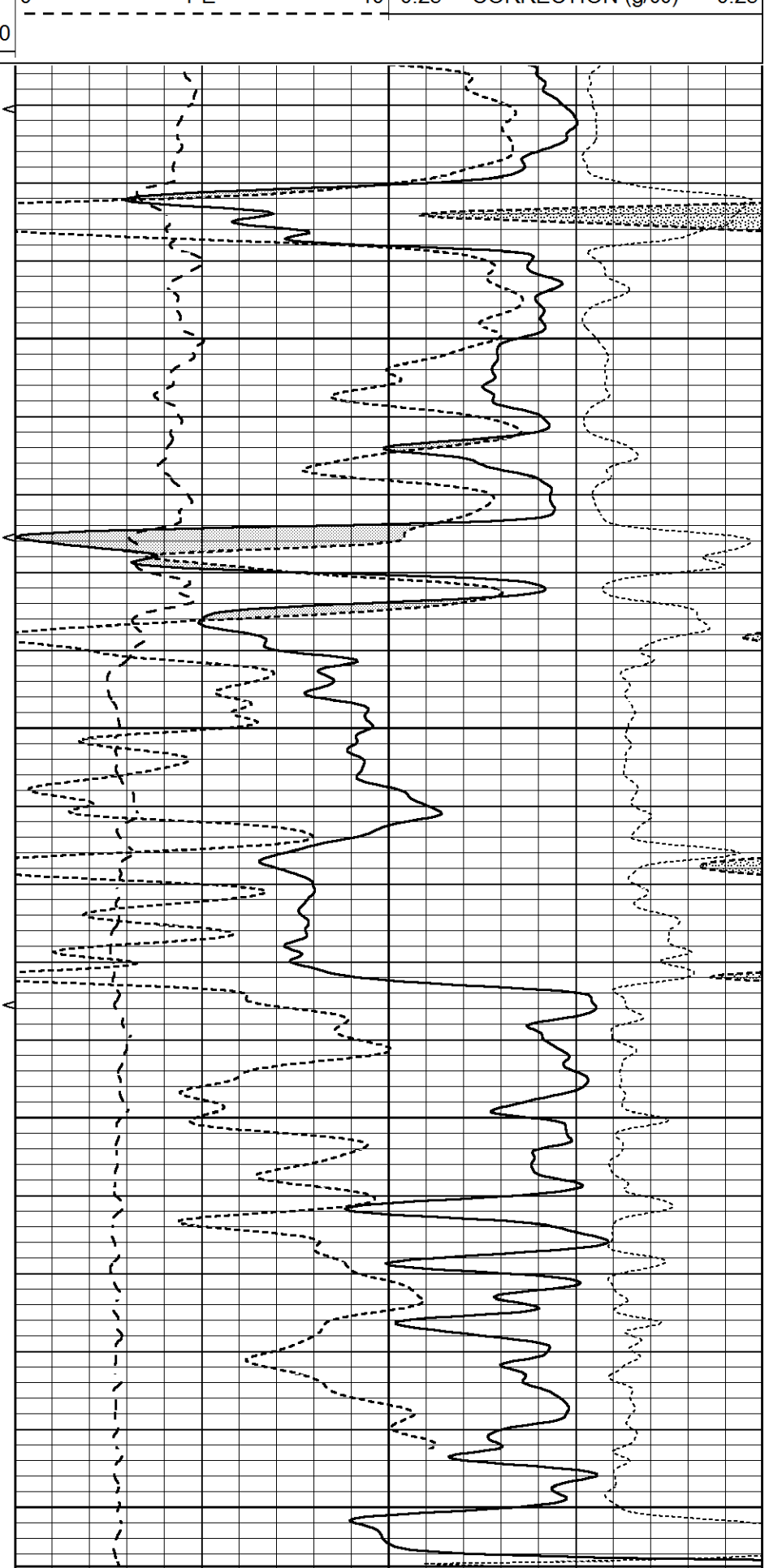
FDN 0 (ft3) 10

3400

3450

3500

3550



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

Calibration Report									
Database File	4429pe.db								
Dataset Pathname	pass2.1								
Dataset Creation	Tue Nov 05 15:00:12 2019								
Dual Induction Calibration Report									
Serial-Model:					FW1410-55-Probe				
Surface Cal Performed:					Tue Feb 19 11:44:18 2019				
Downhole Cal Performed:					Tue Feb 19 11:44:24 2019				
After Survey Verification Performed:					Tue Feb 19 11:44:27 2019				
Surface Calibration									
		Readings			References			Results	
Loop:	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									
		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			
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 Feb 19 11:45:10 2019		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.4300	GAPI/cps	