



**COMPENSATED
DENSITY/NEUTRON
PE LOG**

Company DARRAH OIL COMPANY, LLC.

Well ELLIOT #1-11

Field UNAMED

County OSBORNE State KANSAS

Location: API #: 15-141-20492-0000

404' FSL & 2410' FWL
NE SE SE SW

SEC 11 TWP 10S RGE 14W

Permanent Datum GROUND LEVEL Elevation 1966
Log Measured From KELLY BUSHING 5' A.G.L
Drilling Measured From KELLY BUSHING

Other Services
DILMEL
SONIC

Elevation

K.B. 1971
D.F. 1969
G.L. 1966

Date	12/21/21
Run Number	ONE
Depth Driller	3939
Depth Logger	3938
Bottom Logged Interval	3914
Top Log Interval	2500
Casing Driller	8 5/8" @ 220
Casing Logger	220
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	N/A
pH / Fluid Loss	N/A
Source of Sample	FLOWLINE
Rm @ Meas. Temp	.59 @ 62F
Rmf @ Meas. Temp	.44 @ 62F
Rmc @ Meas. Temp	.70 @ 62F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	.31 @ 115F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	115F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	SEAN DEENIHAN
	TJ DREILING

<<< Fold Here >>>

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

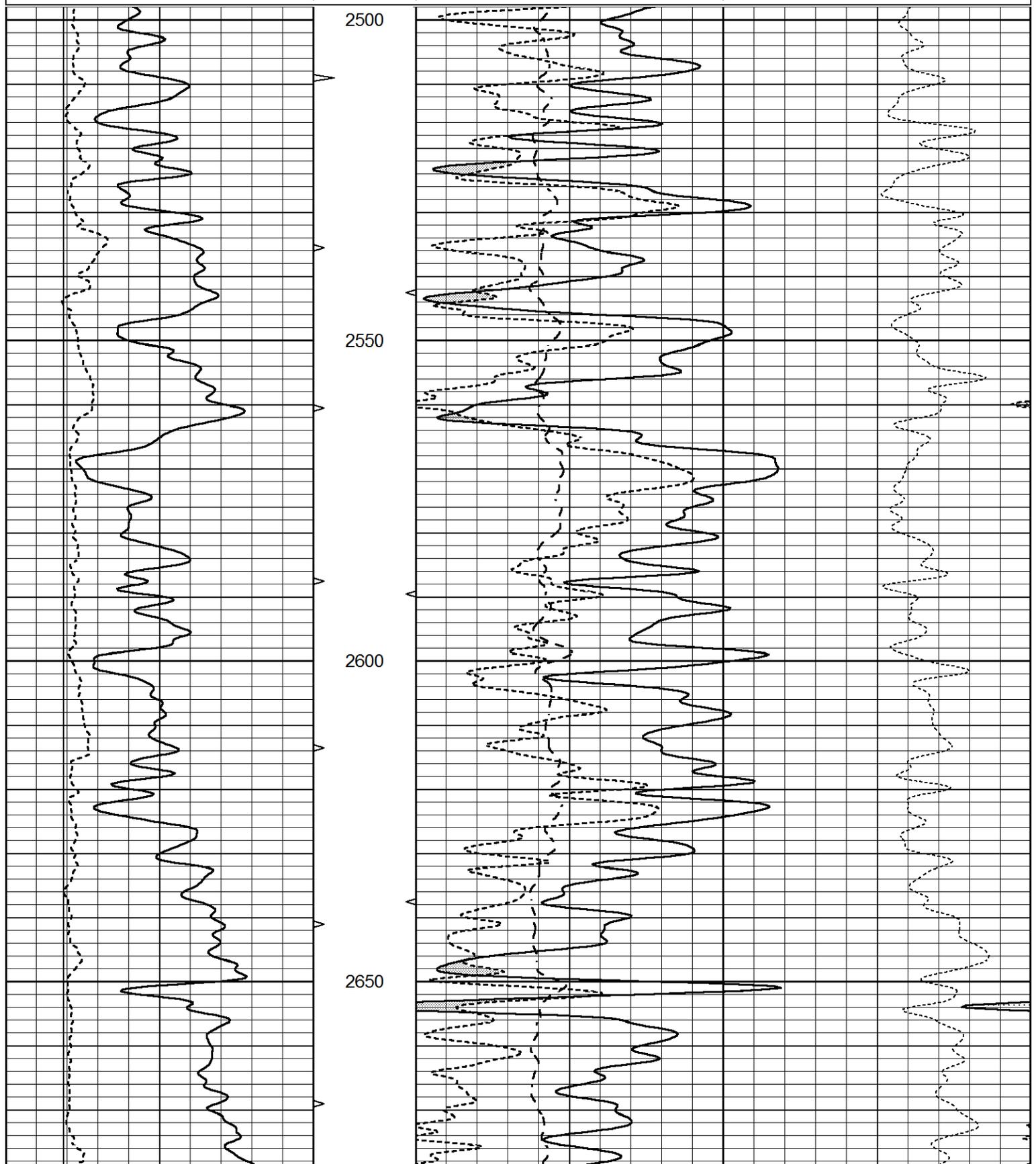
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
LURAY, KS. - 5 NORTH TO RD. 412 - 6 WEST TO CURVE NORTH 1 MILE
BACK WEST 3 1/2 MILES - SOUTH INTO

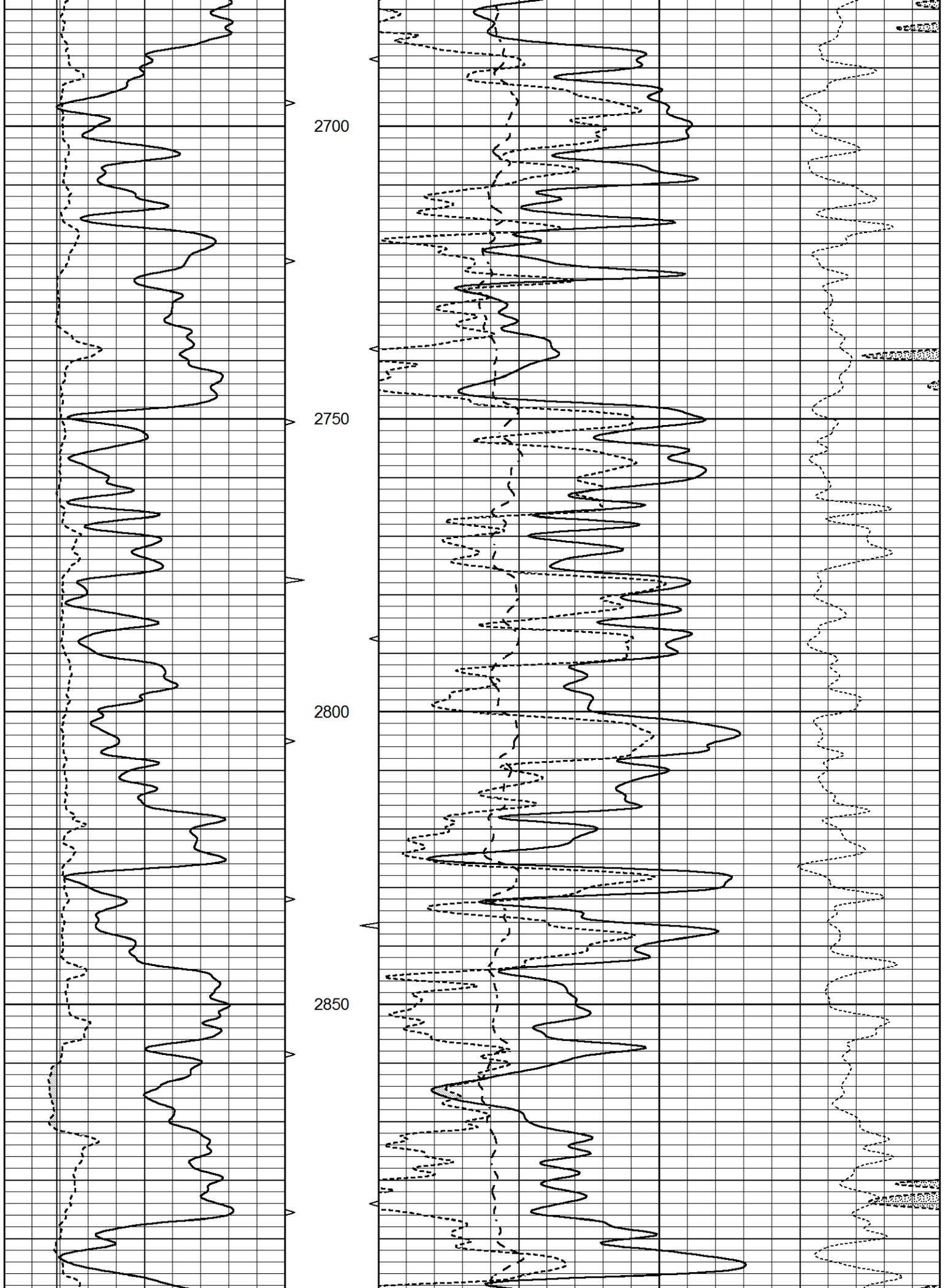


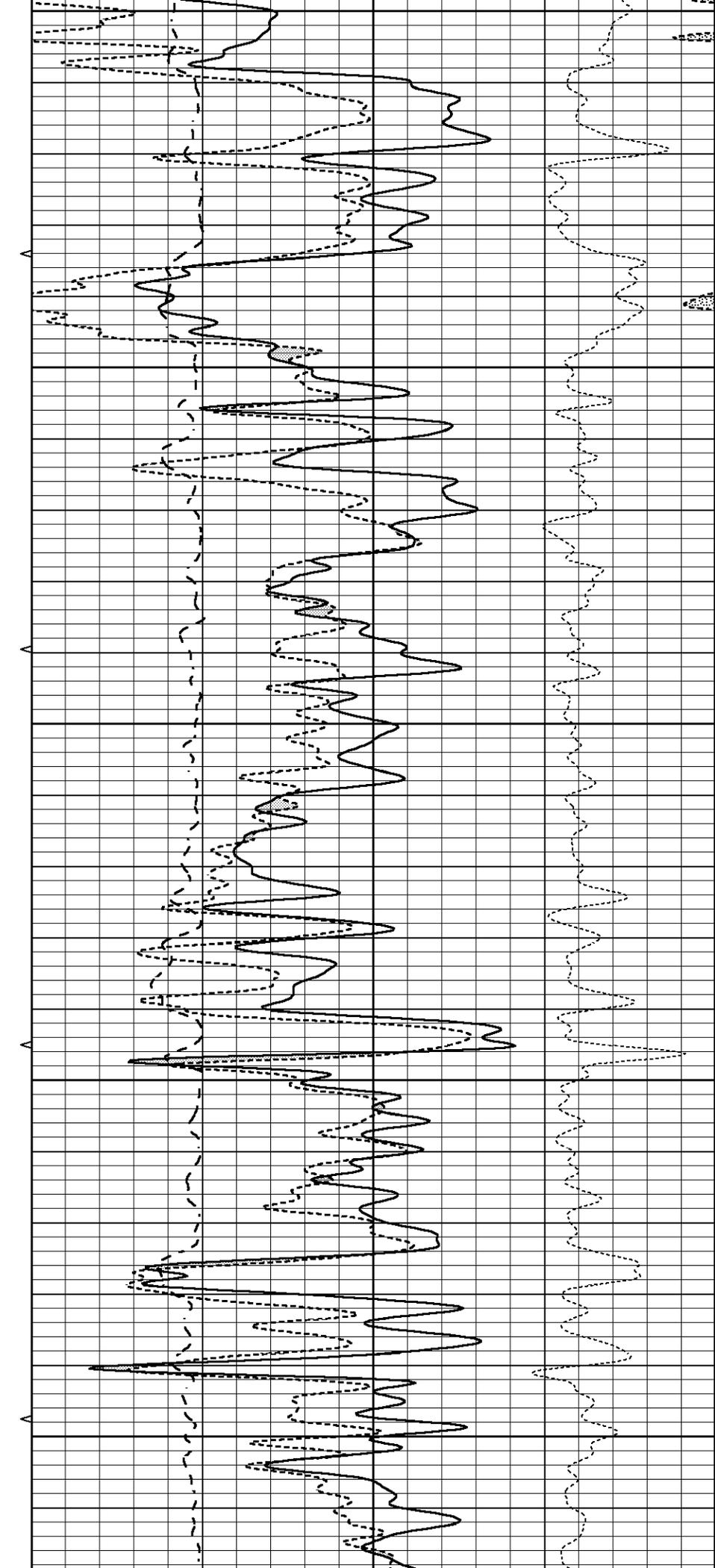
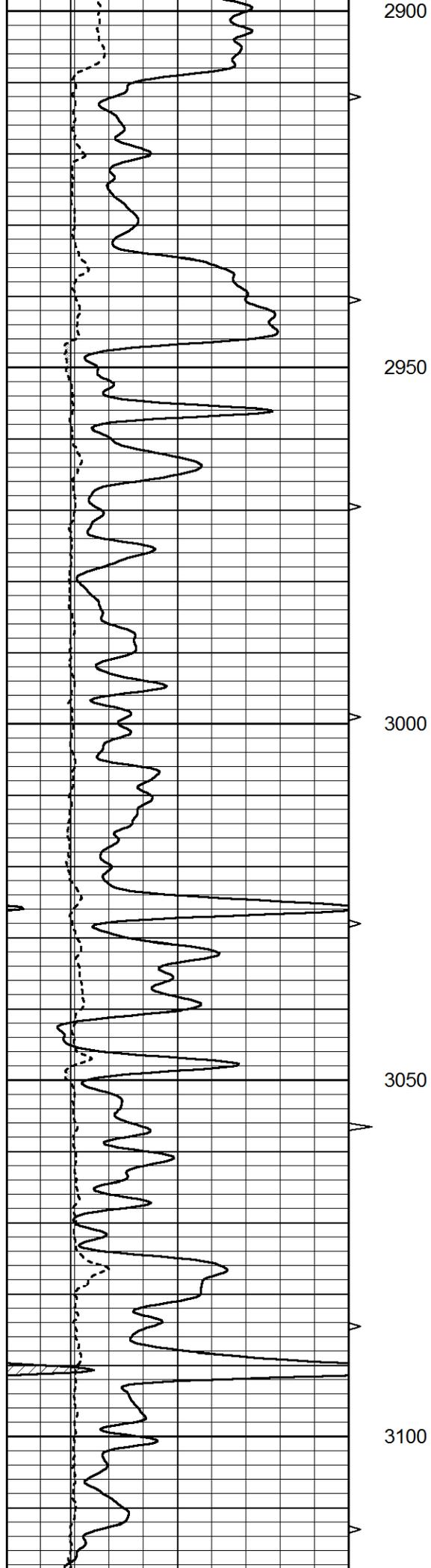
MAIN SECTION

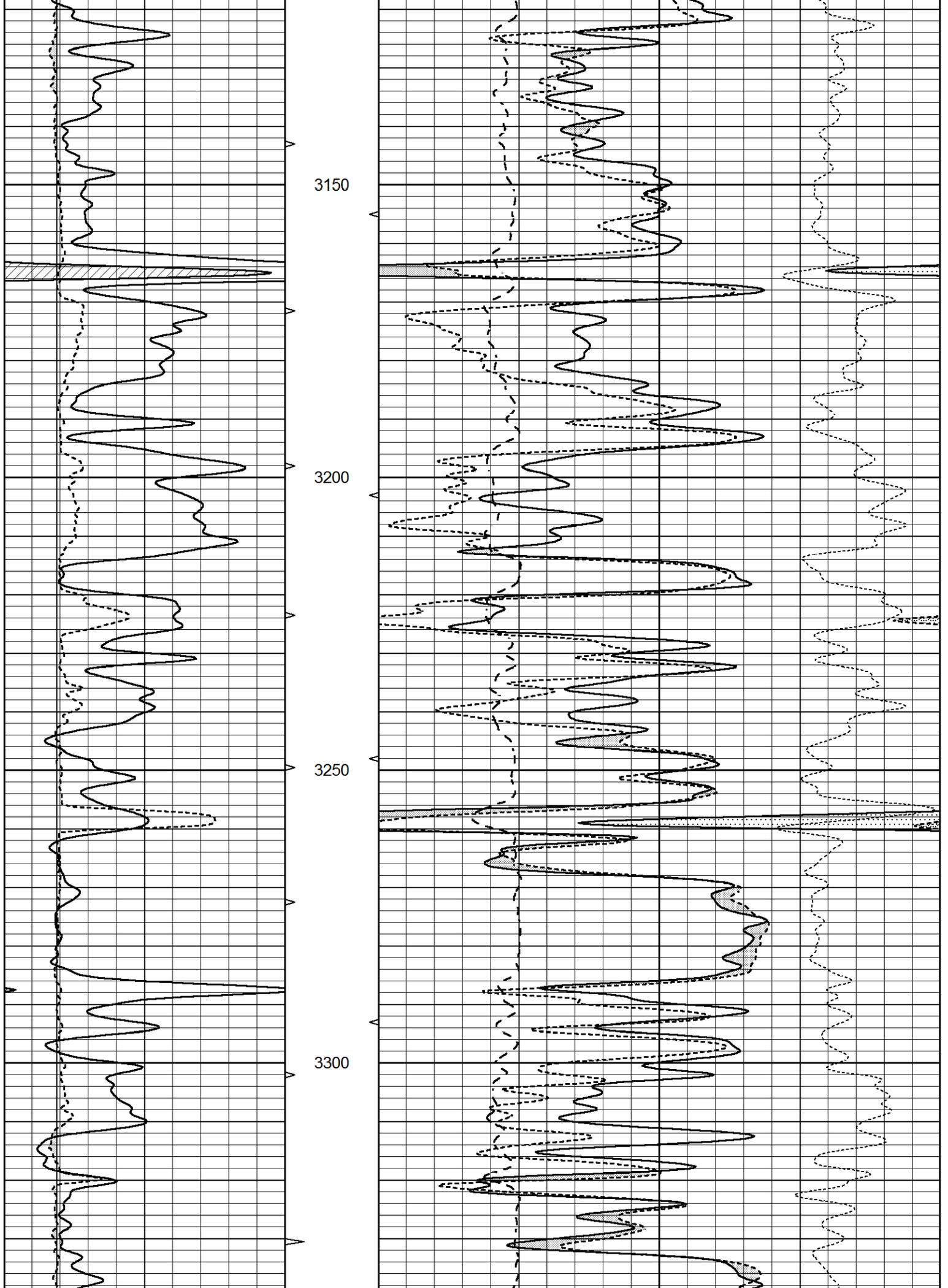
Database File 6070pe.db
 Dataset Pathname pass3.1
 Presentation Format _ldt_neu
 Dataset Creation Tue Dec 21 15:38:04 2021
 Charted by Depth in Feet scaled 1:240

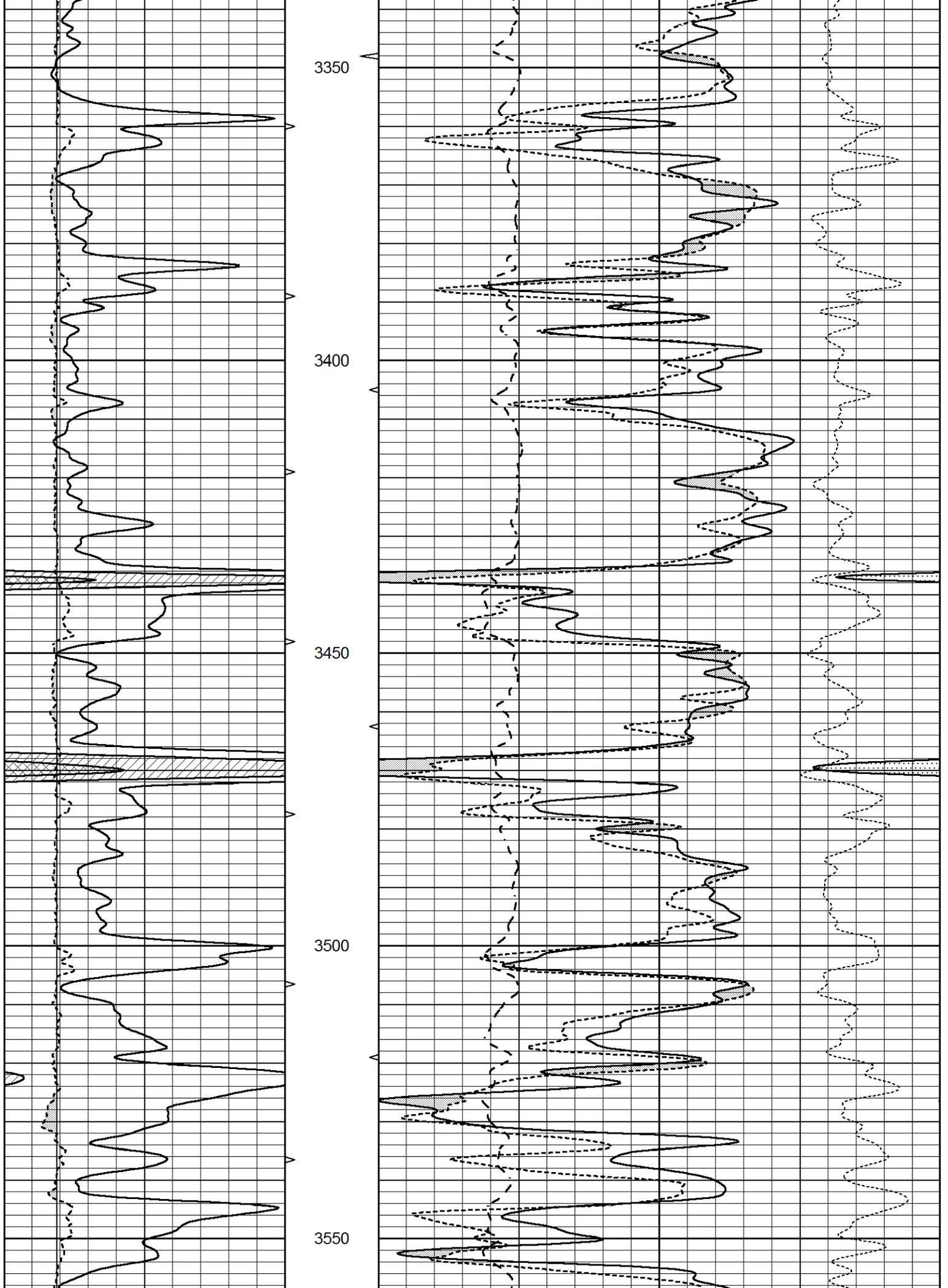
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)		-10
6	CALIPER (in)	16	10 (ft3)	0	COMPENSATED NEUTRON (pu)		-10
			TBHV	0	PE	10	-0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	10			0 LTEN (lb) 5000

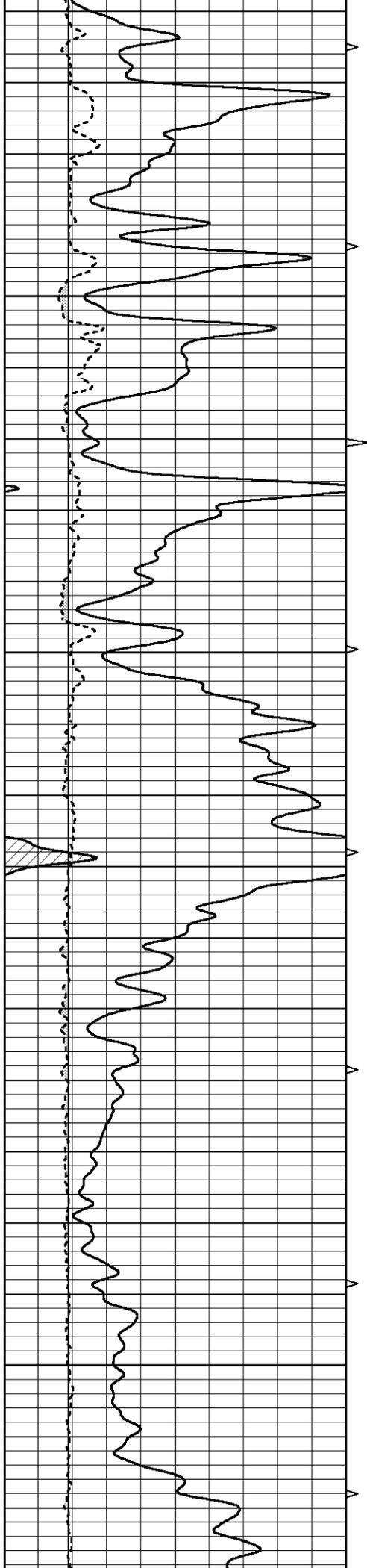










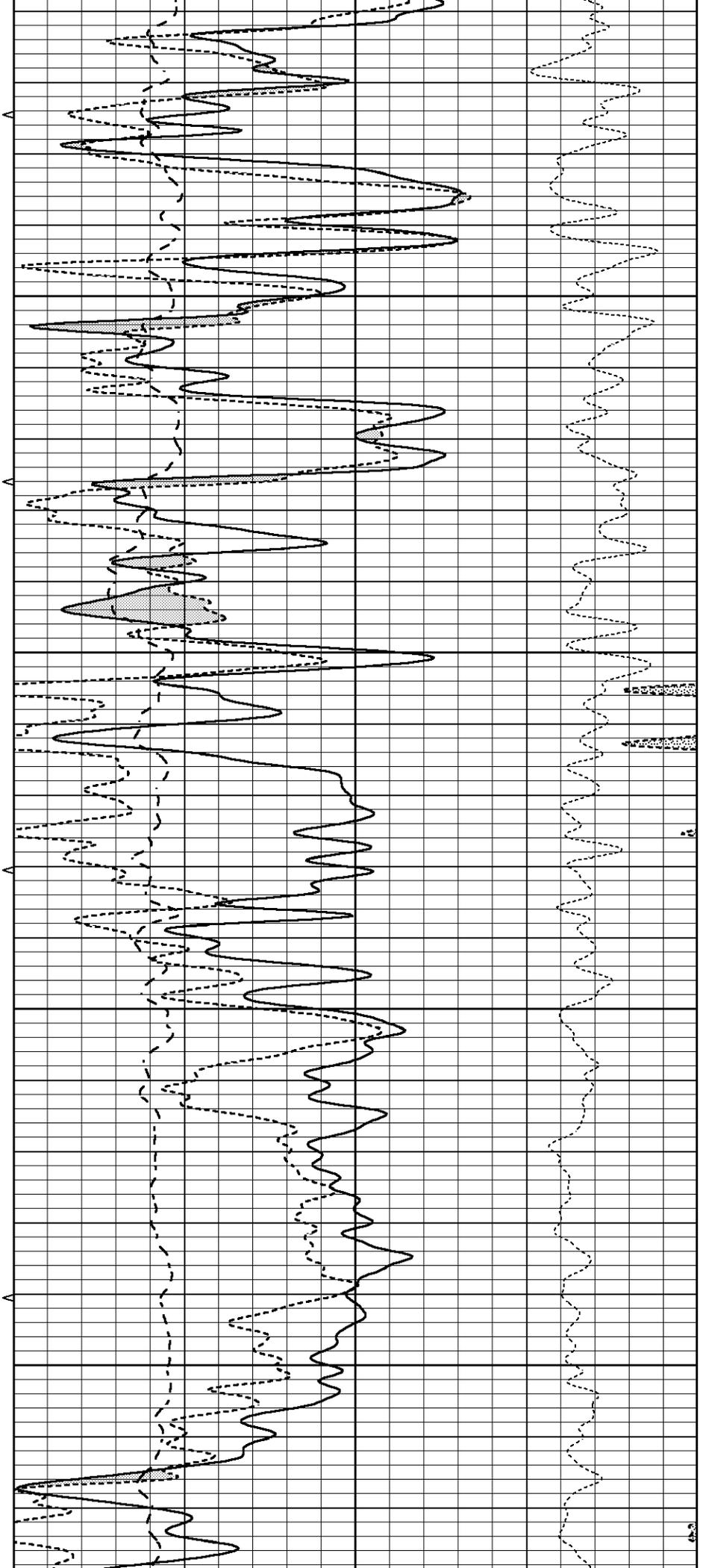


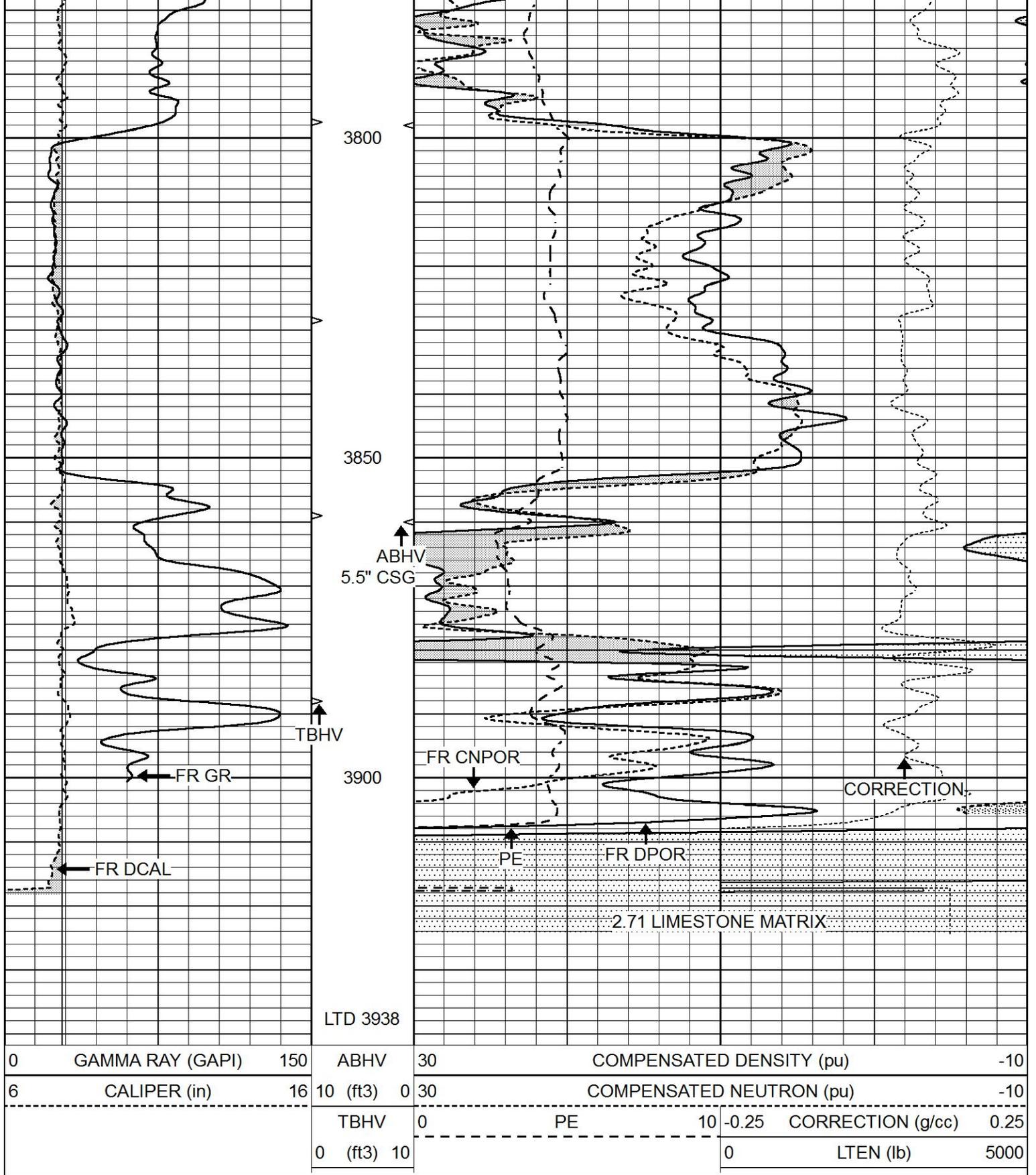
3600

3650

3700

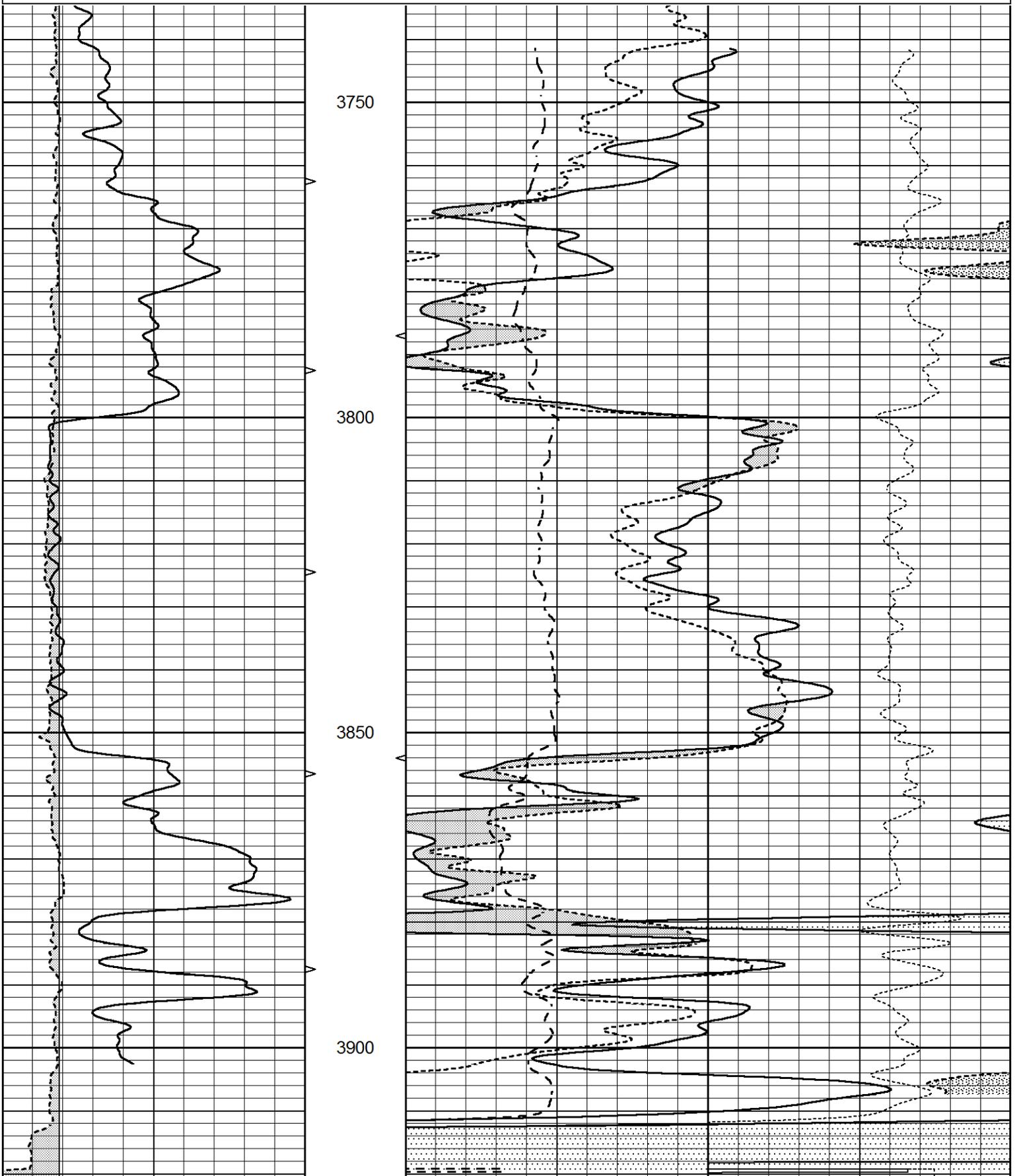
3750





REPEAT SECTION

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 CORRECTION (g/cc) 0.25
			0 (ft3)	10			0 LTEN (lb) 5000



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

Calibration Report

Database File 6070pe.db
 Dataset Pathname pass2.1
 Dataset Creation Tue Dec 21 15:36:22 2021

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

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

	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

	<u>Background</u>	<u>Aluminum</u>	<u>Magnesium</u>		
Window 1	557.73	5525.14	24361.20	cps	
Window 2	47.08	1245.09	5901.17	cps	
Window 4	239.06	1250.70	5456.76	cps	
Window 5	564.08	8300.56	16134.07	cps	
Window 6	44.21	1356.78	2705.40	cps	
Window 8	267.87	2686.97	5150.30	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8719	SS Alpha:	: -0.8000	LS CPE:	: 1.1424
LS Beta:	: 135562.6841	SS Beta:	: 20128.7209	SS CPE:	: 1.5489

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: Mon Dec 07 12:12:14 2020		
Results	Readings		References (in)		Gain	Offset
	Low	High	Low	High		
	5852.8	8972.7	8.0	14.0	0.0	-3.4

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 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	