COMPENSATED DENSITY/NEUTRON PE LOG

Company BIRD DOG OIL, LLC.
Well CURTIS-GATES #1-16
Field KENILWORTH
County STAFFORD
State KANSAS

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Well CURTIS-GATES #1-16
Field KENILWORTH
County STAFFORD State KANSAS

Location: API # : 15-185-24110-00-00
2310' FNL & 990' FEL
SW - SE - NE
SEC 16 TWP 22S RGE 13W

Other Services
DIL/MEL
SONIC

Permanent Datum	GROUND LEVEL	Elevation	1894
Log Measured From	KELLY BUSHING 8' A.G.L		
Drilling Measured From	KELLY BUSHING		

Elevation	
K.B.	1902
D.F.	1900
G.L.	1894

Date	6/10/22			
Run Number	ONE			
Depth Driller	3940			
Depth Logger	3940			
Bottom Logged Interval	3616			
Top Log Interval	2850			
Casing Driller	8 5/8"@350'			
Casing Logger	350'			
Bit Size	7 7/8			
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 10,000 PPM		
Density / Viscosity	8.5/59			
pH / Fluid Loss	9.5/10.4			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.655@75F			
Rmf @ Meas. Temp	.488@75F			
Rmc @ Meas. Temp	.780@75F			
Source of Rmf / Rmc	MEASUREMENT			
Rm @ BHT	.427@115F			
Time Circulation Stopped	2.5 HOURS			
Time Logger on Bottom	11:00 A.M.			
Maximum Recorded Temperature	115F			
Equipment Number	3802			
Location	HAYS, KANSAS			
Recorded By	COLE ROBBEN			
Witnessed By	JEFF LAWLER			

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Comments

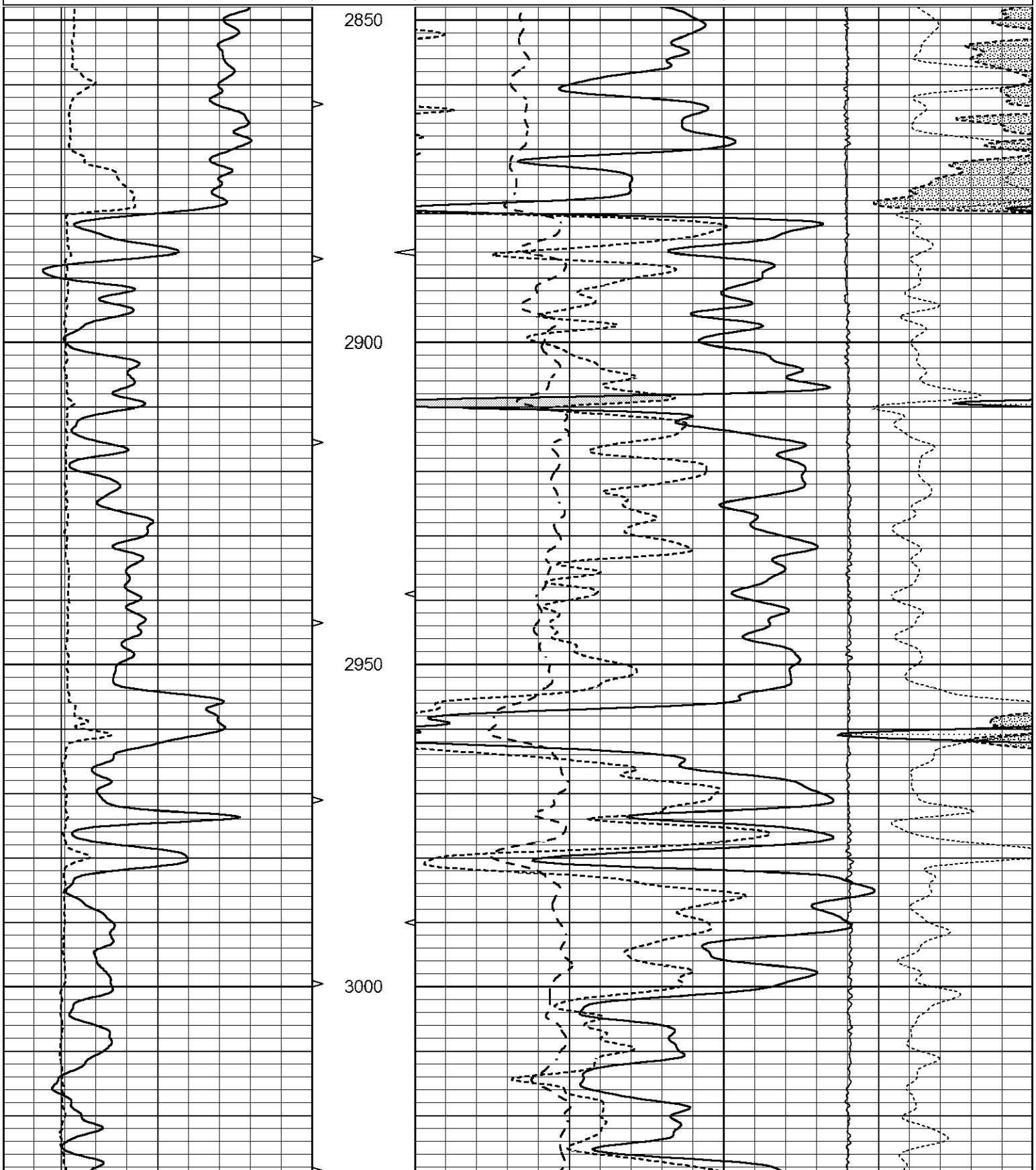
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS:

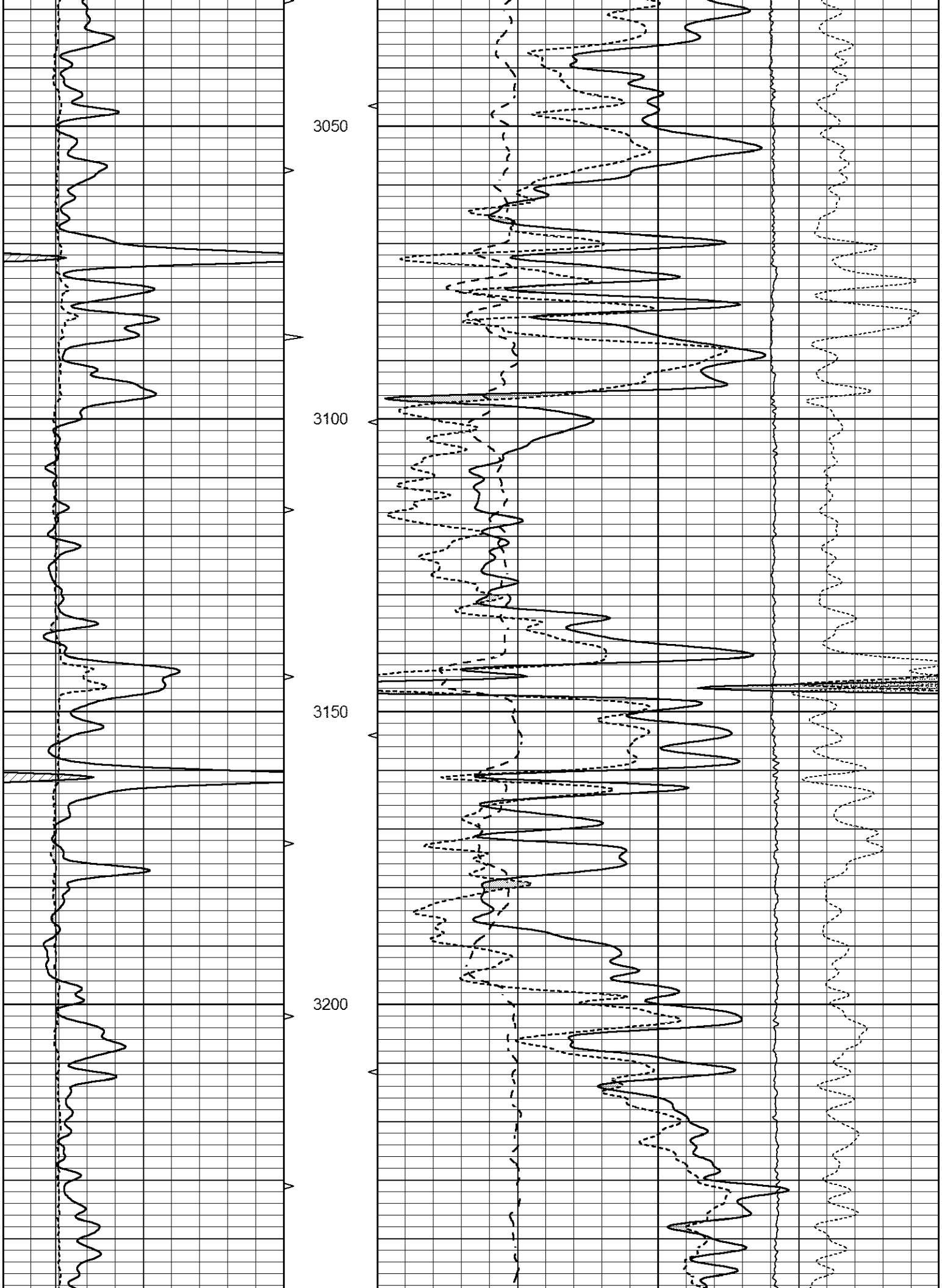
GREAT BEND, KS. 14.5 MILES SOUTH ON HIGHWAY 281, WEST INTO

MAIN SECTION

Database File	6540pe.db
Dataset Pathname	pass5.4
Presentation Format	ldt_neu
Dataset Creation	Fri Jun 10 12:57:36 2022
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 (ft3) 10	0	LTEN (lb) 5000
				-0.25	CORRECTION (g/cc) 0.25

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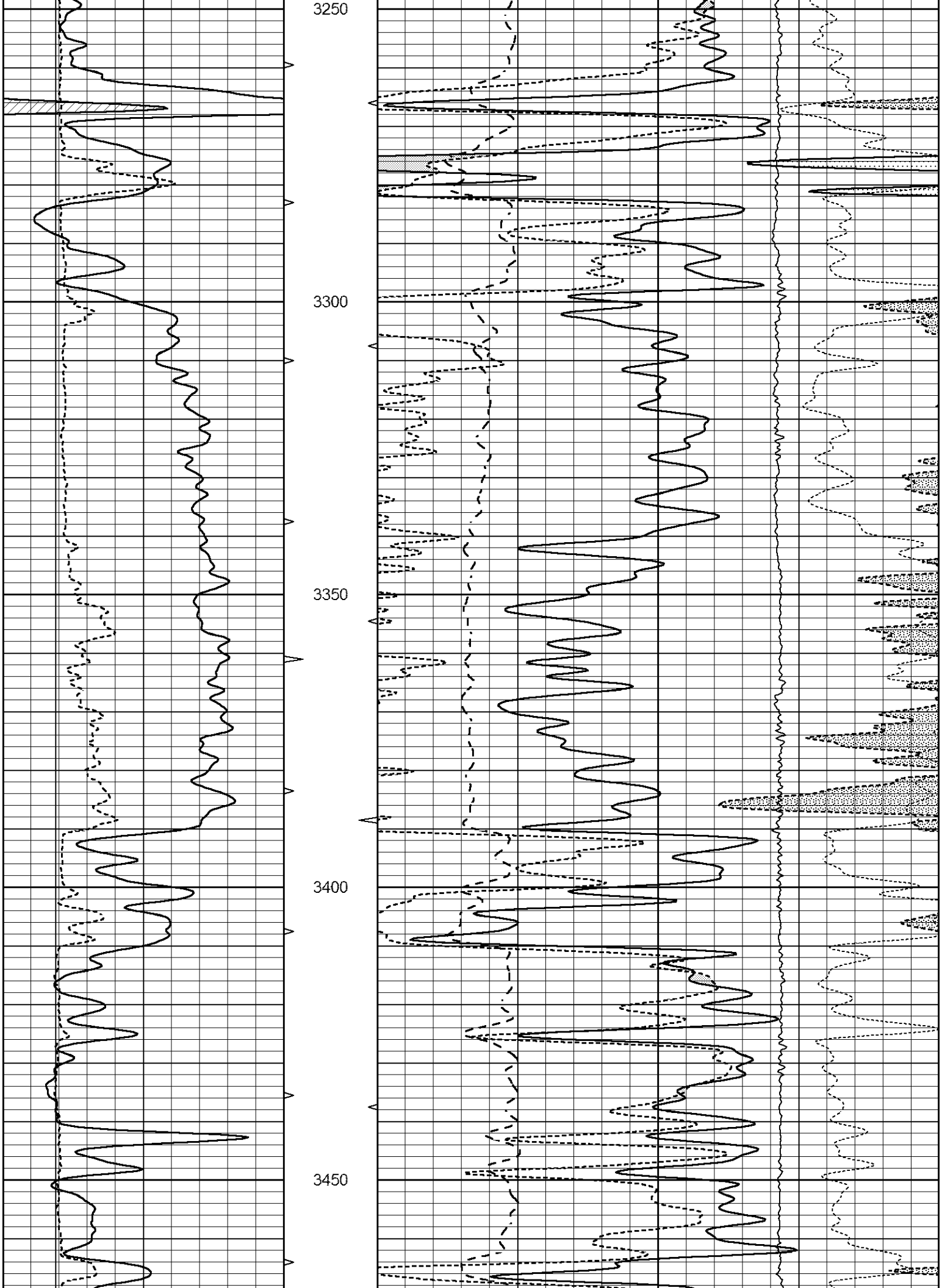
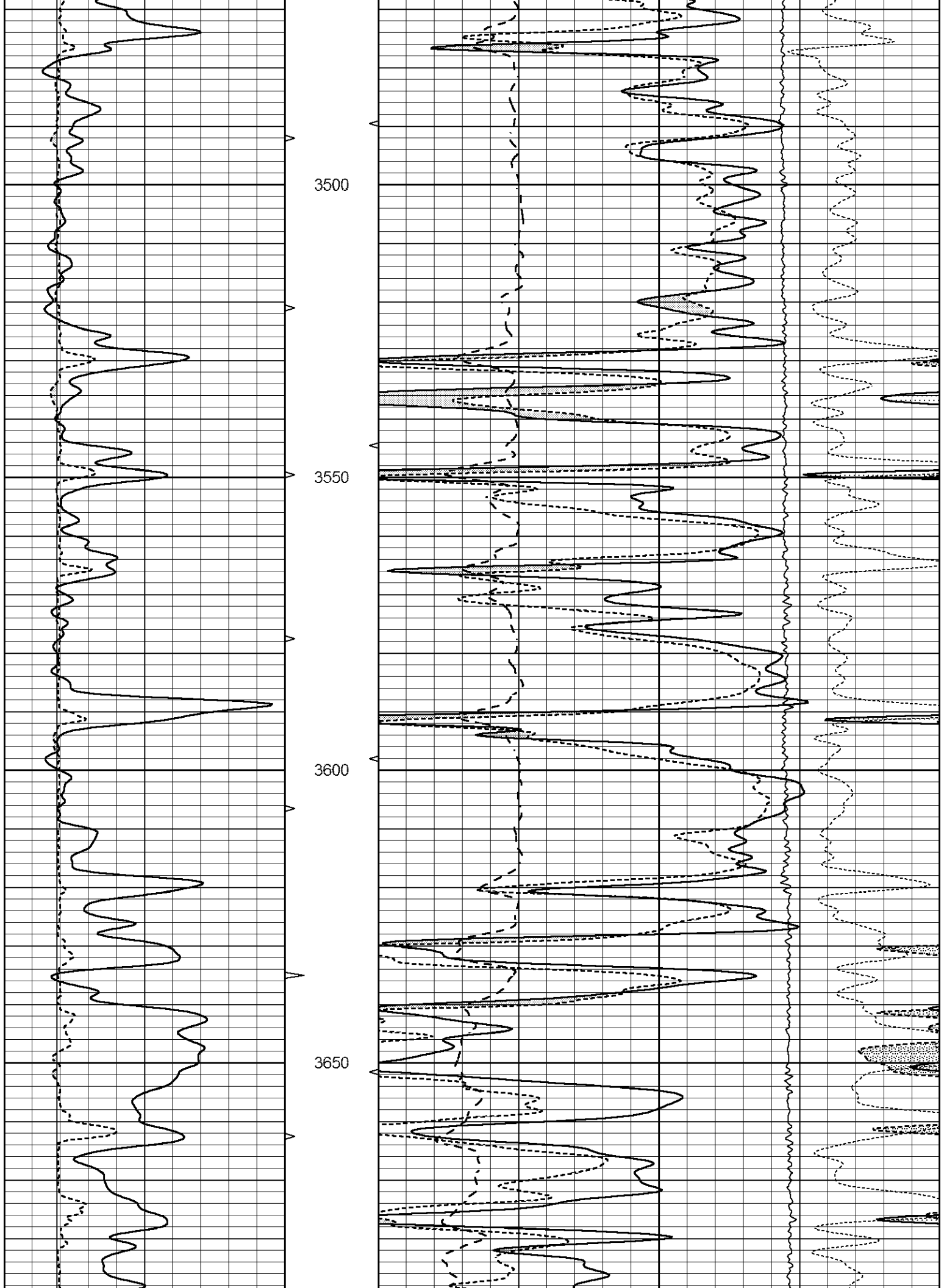
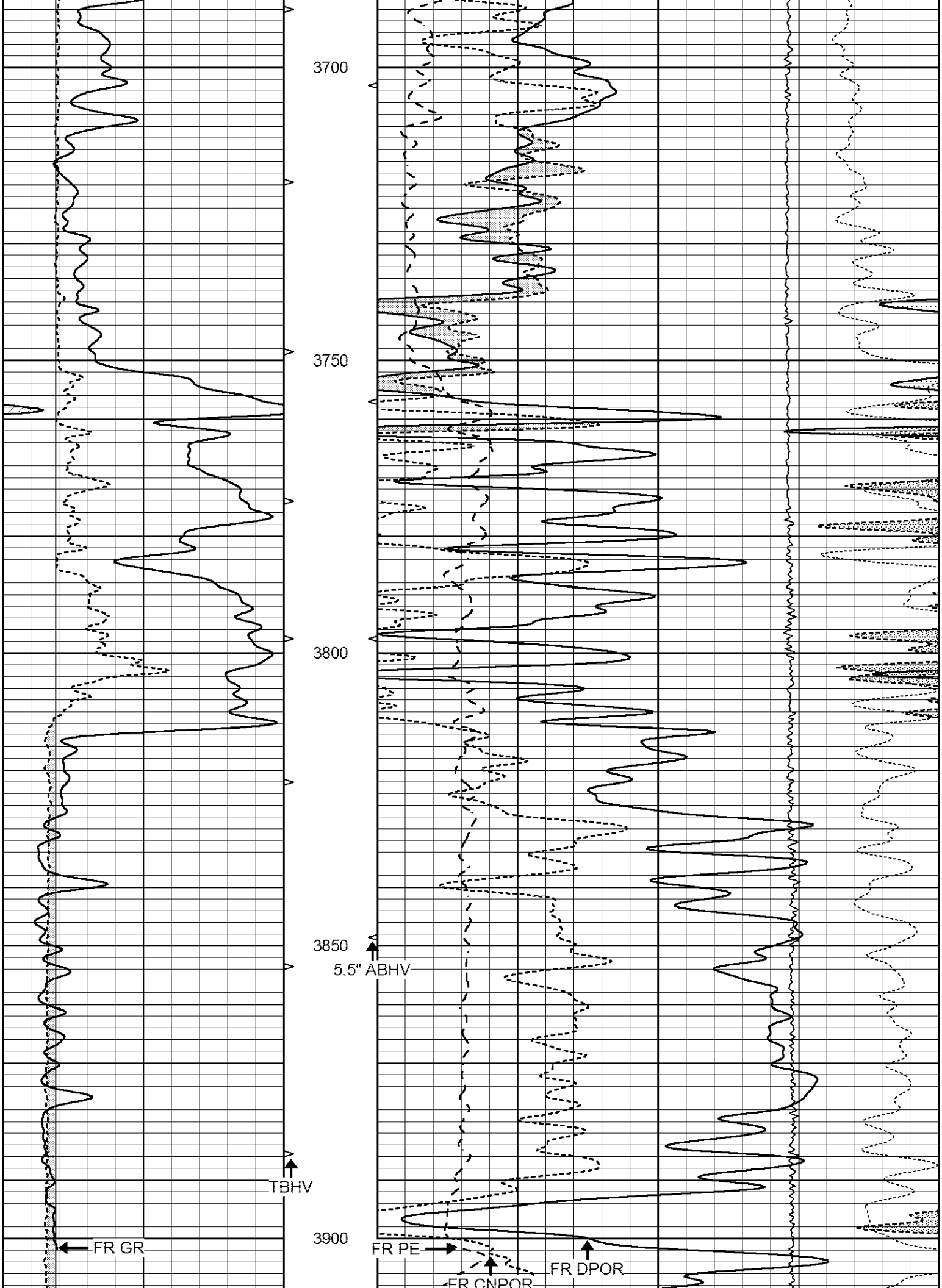
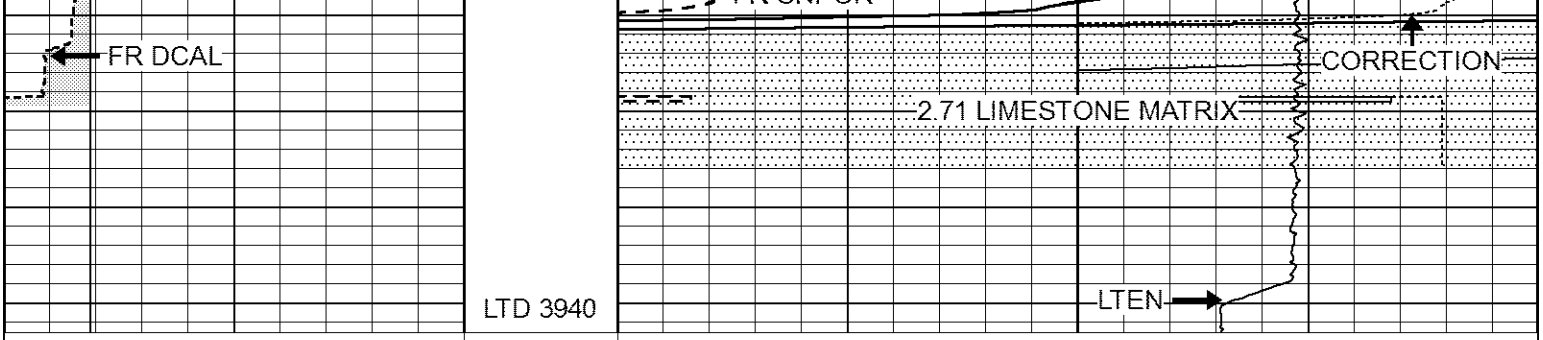
3100
3150
3200


3250
3300
3350
3400
3450


3500
3550
3600
3650


3700
3750
3800
3850
5.5" ABHV
TBHV
3900
FR GR
FR PE
FR CNPOR
FR DPOR

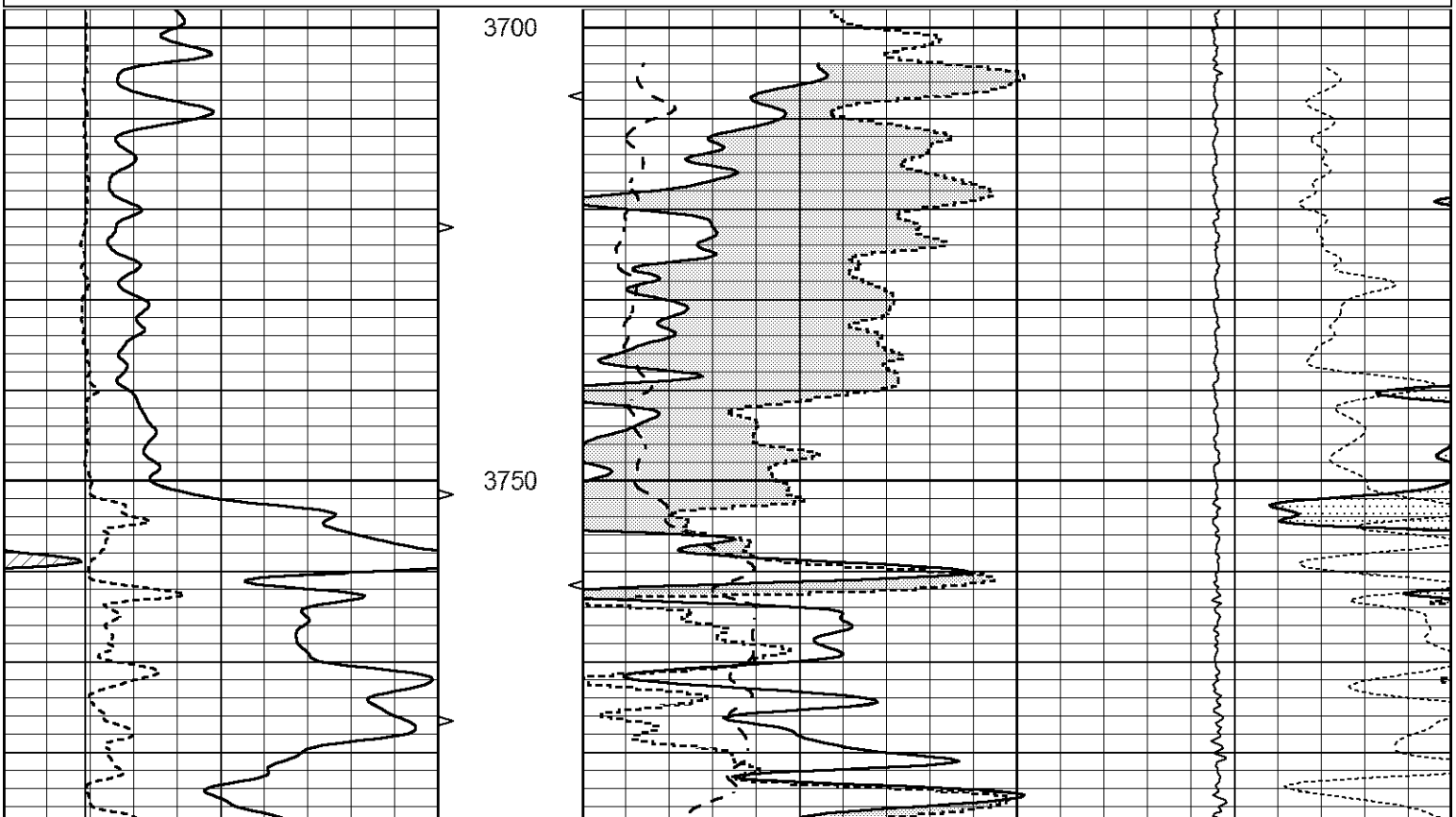


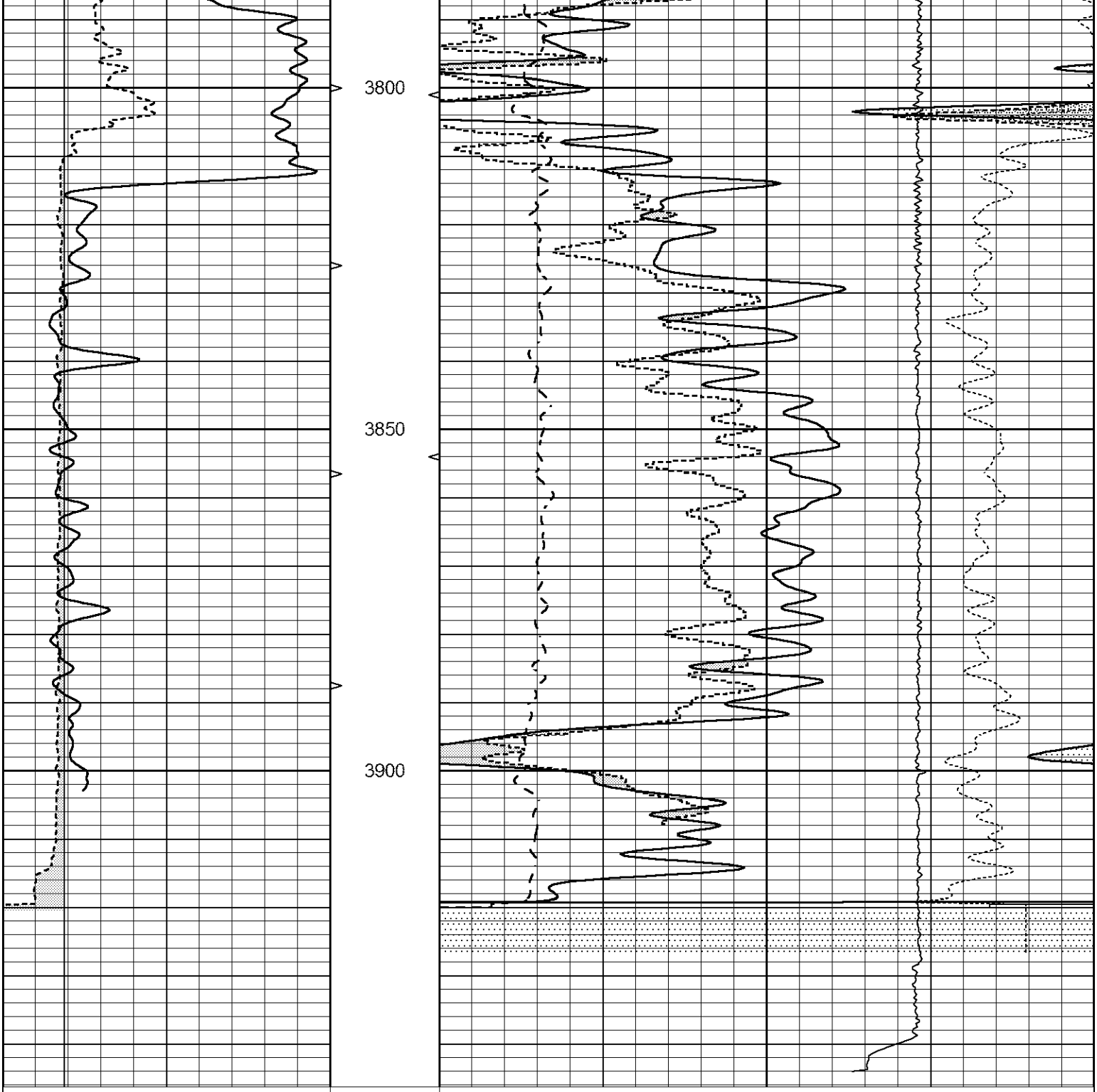
0 GAMMA RAY (GAPI) 150	ABHV	30	COMPENSATED DENSITY (pu)		-10
6 CALIPER (in) 16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)		-10
	TBHV	0	PE	10	0 LTEN (lb) 5000
	0 (ft3) 10				-0.25 CORRECTION (g/cc) 0.25

DOLOMITE MATRIX REPEAT

Database File	6540pe.db
Dataset Pathname	pass2.3D
Presentation Format	ldt_neu
Dataset Creation	Fri Jun 10 12:37:45 2022
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		2.81 DOLOMITE MATRIX COMPENSATED NEUTRON		
	TBHV	30	(pu)		-10
	0 (ft3) 10	0	PE	10	0 LTEN (lb) 5000
					-0.25 CORRECTION (g/cc) 0.25



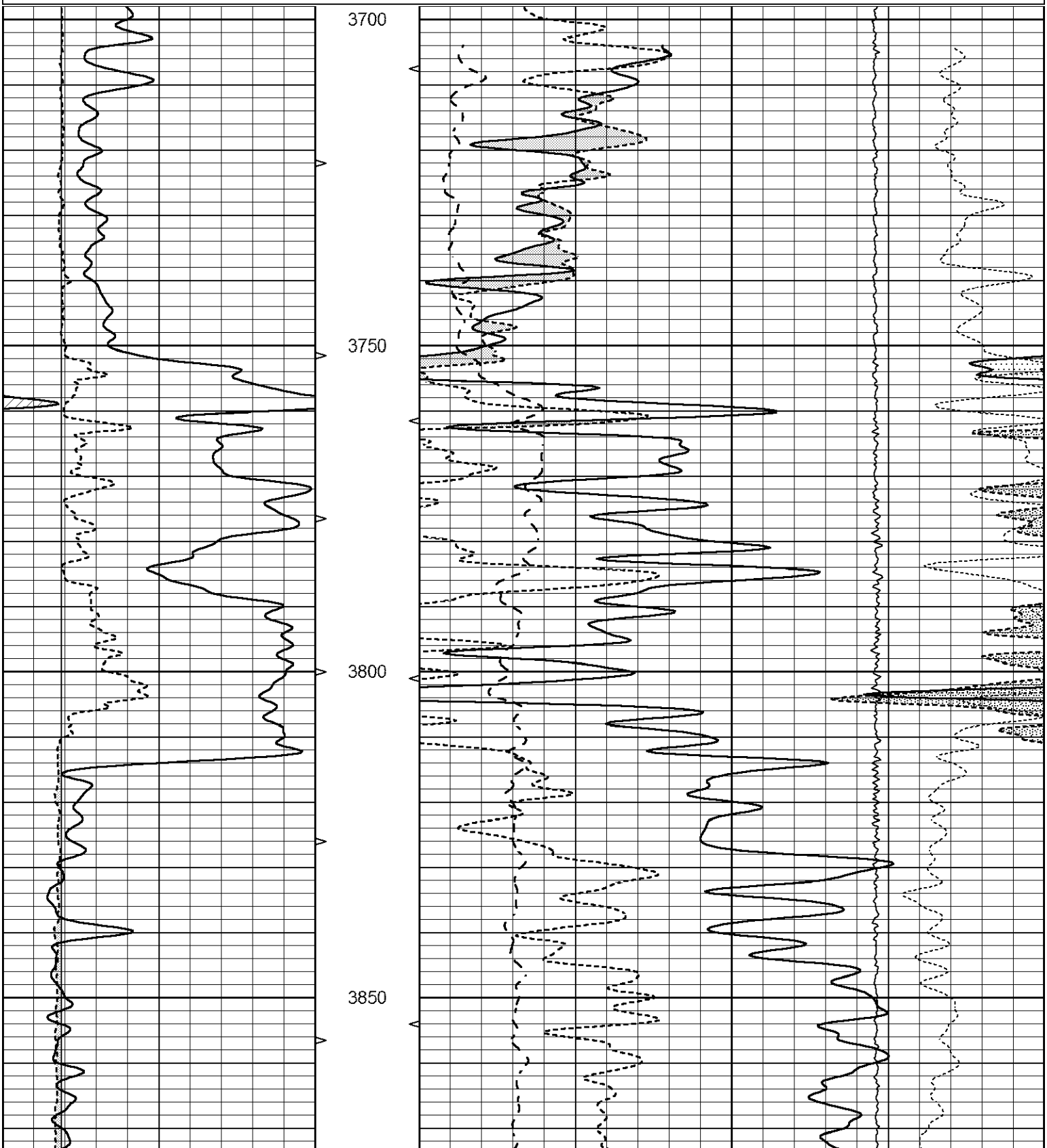


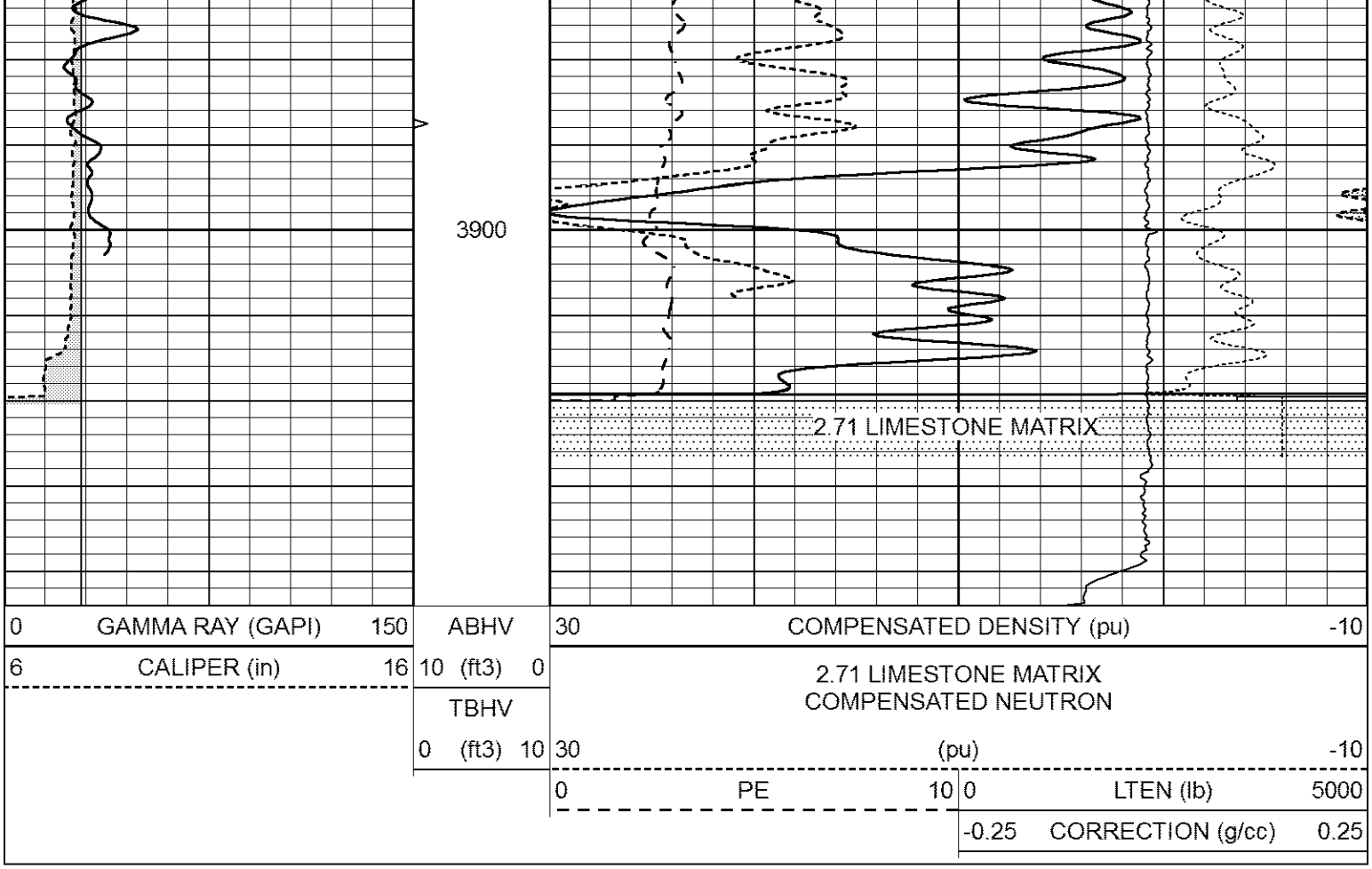
LIMESTONE MATRIX REPEAT

Database File 6540pe.db

Dataset Pathname	pass2.1LS
Presentation Format	ldt_neu
Dataset Creation	Fri Jun 10 12:39:31 2022
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		2.71 LIMESTONE MATRIX
			TBHV		COMPENSATED NEUTRON
			0 (ft3) 10	30	(pu) -10
				0	PE 10
				0	LTEN (lb) 5000
				-0.25	CORRECTION (g/cc) 0.25





Calibration Report

Database File	6540pe.db
Dataset Pathname	pass5.4
Dataset Creation	Fri Jun 10 12:57:36 2022

Dual Induction Calibration Report

Serial-Model:	FW1410-55-Probe
Surface Cal Performed:	Sun May 15 19:17:36 2022
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	650.000	-2.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	-15.000
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

Master Calibration — Performed: Mon May 23 14:22:47 2022

	Background	Aluminum	Magnesium	
Window 1	511.07	5437.36	23664.68	cps
Window 2	40.76	1220.39	5745.34	cps
Window 4	223.73	1233.64	5301.27	cps
Window 5	531.57	7878.13	15405.81	cps
Window 6	48.52	1245.17	2497.97	cps
Window 8	246.02	2578.14	4974.07	cps
Bulk Density	-	2.6020	1.6830	g/cc
Pe	-	3.0000	2.5070	b/e

LS Alpha: : -1.8413 SS Alpha: : -0.8034 LS CPE: : 1.1579
LS Beta: : 124864.8423 SS Beta: : 19537.1506 SS CPE: : 1.6371

Before Survey Backround 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 May 23 14:22:47 2022

Results		References (in)			
Low	High	Low	High	Gain	Offset
8210.8	12139.3	7.0	14.0	0.0	-7.3

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:	Thu May 26 08:56:46 2022	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps