COMPENSATED DENSITY/NEUTRON LOG

Company DOWNING NELSON OIL COMPANY, INC.
Well KRAMER-SCOTT UNIT #1-17
Field CHARLENE
County RAWLINS State KANSAS

Location: API # : 15-153-21291-0000
2293' FNL & 1785' FEL
NW - SE - SW - NE
SEC 17 TWP 05S RGE 36W

Other Services
DIL/MEL
SONIC

		Elevation
Permanent Datum	GROUND LEVEL	Elevation 3285
Log Measured From	KELLY BUSHING11' A.G.L	K.B. 3296
Drilling Measured From	KELLY BUSHING	D.F. 3294
		G.L. 3285

Date	6/11/22					
Run Number	ONE					
Depth Driller	4925					
Depth Logger	4923					
Bottom Logged Interval	4899					
Top Log Interval	3600					
Casing Driller	8 5/8"@439'					
Casing Logger	439					
Bit Size	7 7/8					
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,000 PPM				
Density / Viscosity	9.4/48					
pH / Fluid Loss	9.5/8.0					
Source of Sample	FLOWLINE					
Rm @ Meas. Temp	2.10@80F					
Rmf @ Meas. Temp	1.57@80F					
Rmc @ Meas. Temp	2.52@80F					
Source of Rmf / Rmc	MEASUREMENT					
Rm @ BHT	1.35@124F					
Time Circulation Stopped	2 HOURS					
Time Logger on Bottom	1:30 A.M.					
Maximum Recorded Temperature	124F					
Equipment Number	3802					
Location	HAYS, KANSAS					
Recorded By	COLE ROBBEN					
Witnessed By	AL DOWNING					

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Comments

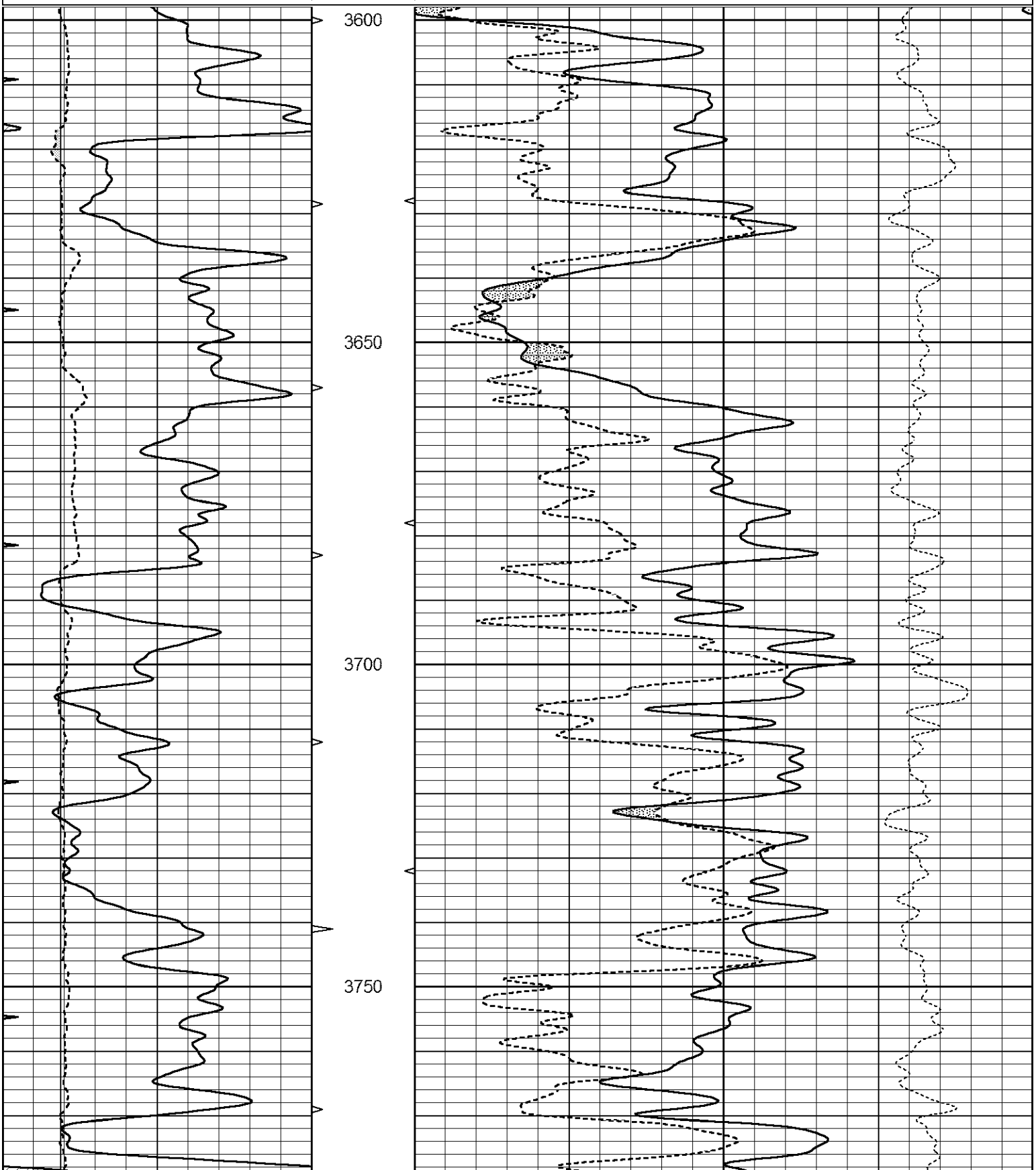
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS:

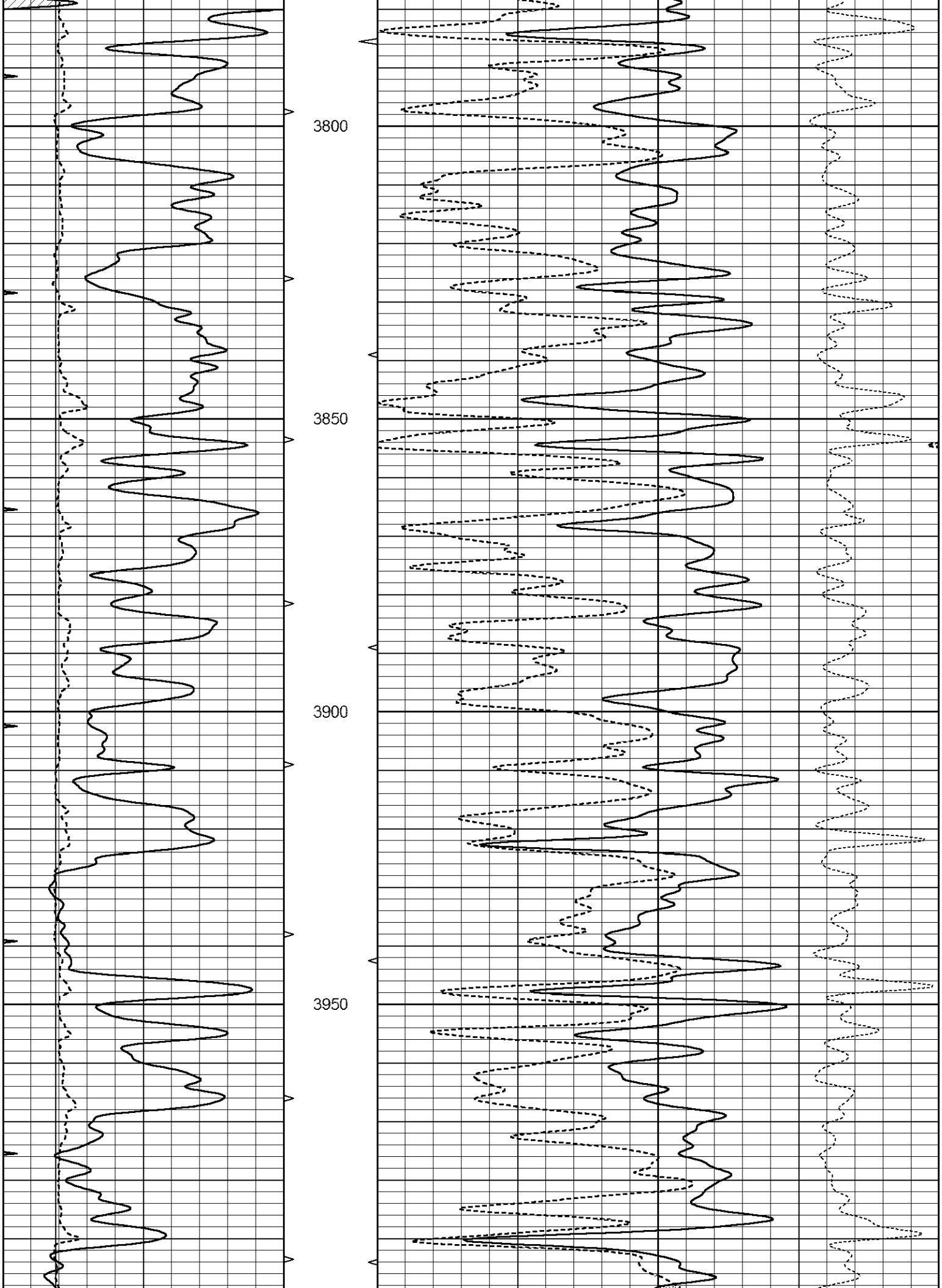
BREWSTER, KS. NORTH ON BLACKTOP TO CURVE WEST, THEN 3 MILES NORTH,
1/2 MILE WEST, AND NORTH INTO EAST OF TANK BATTERY

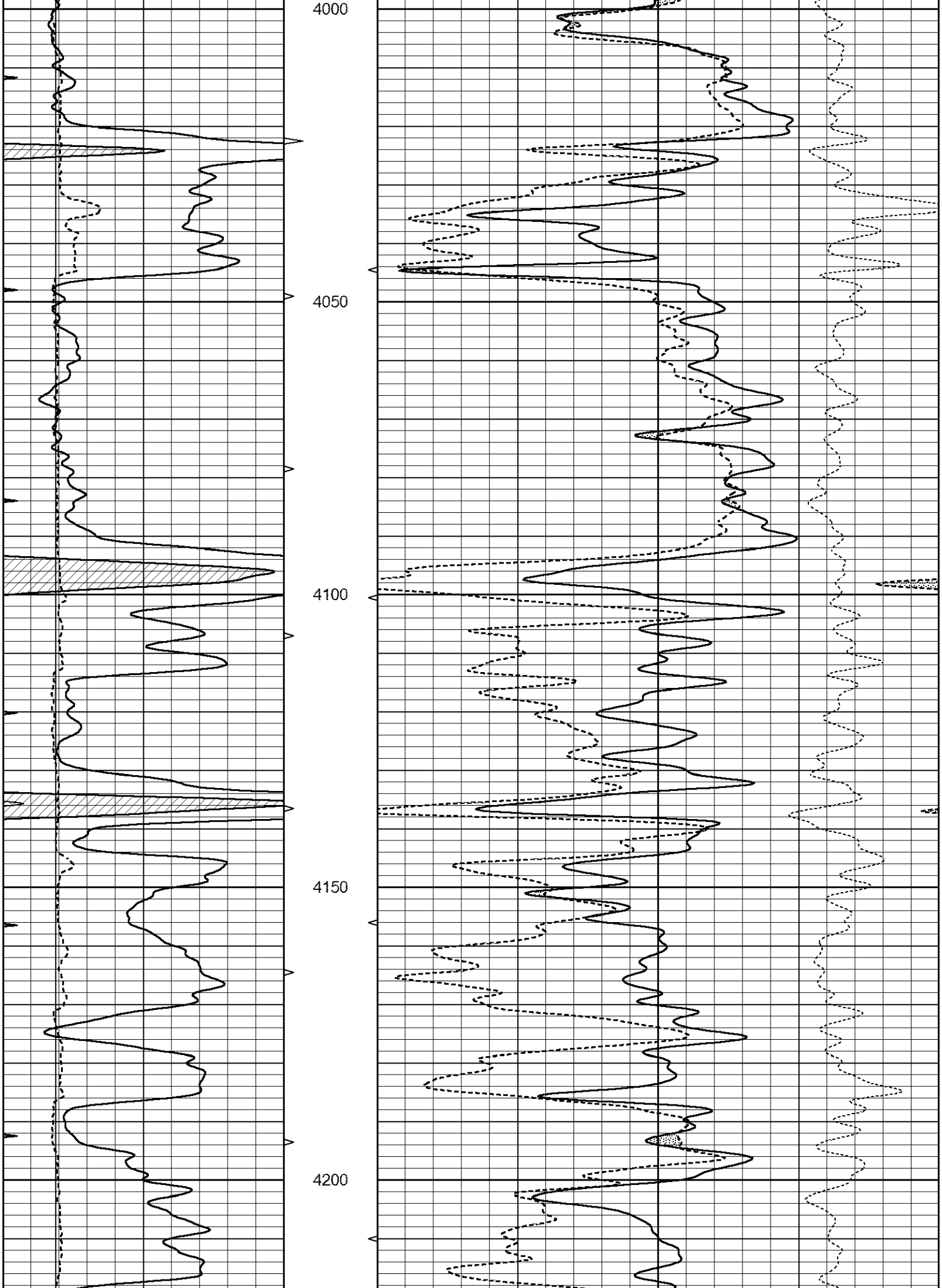
MAIN SECTION

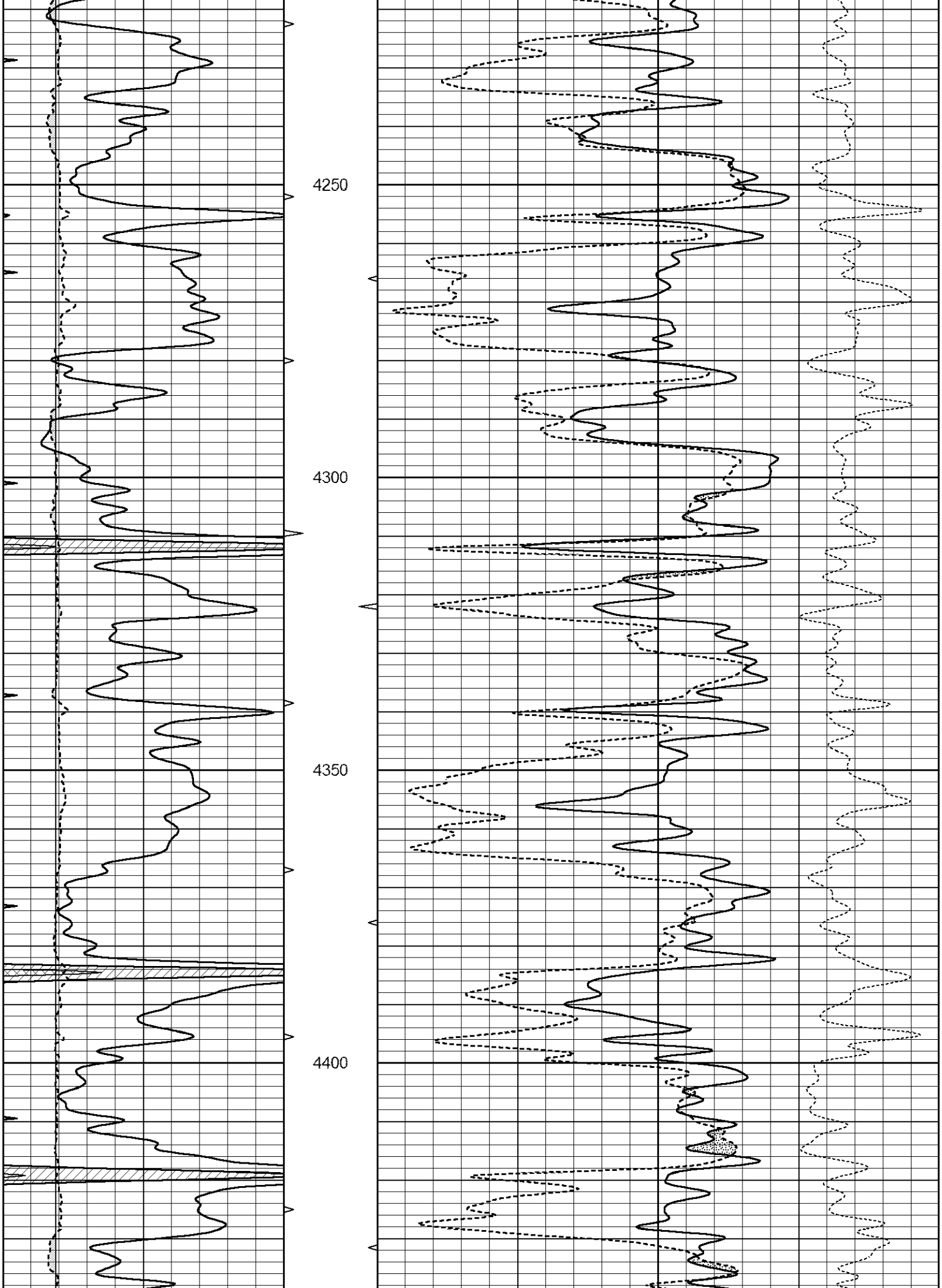
Database File	6541ddn.db
Dataset Pathname	pass3.1M
Presentation Format	den_neu
Dataset Creation	Sat Jun 11 03:28:21 2022
Charted by	Depth in Feet scaled 1:240

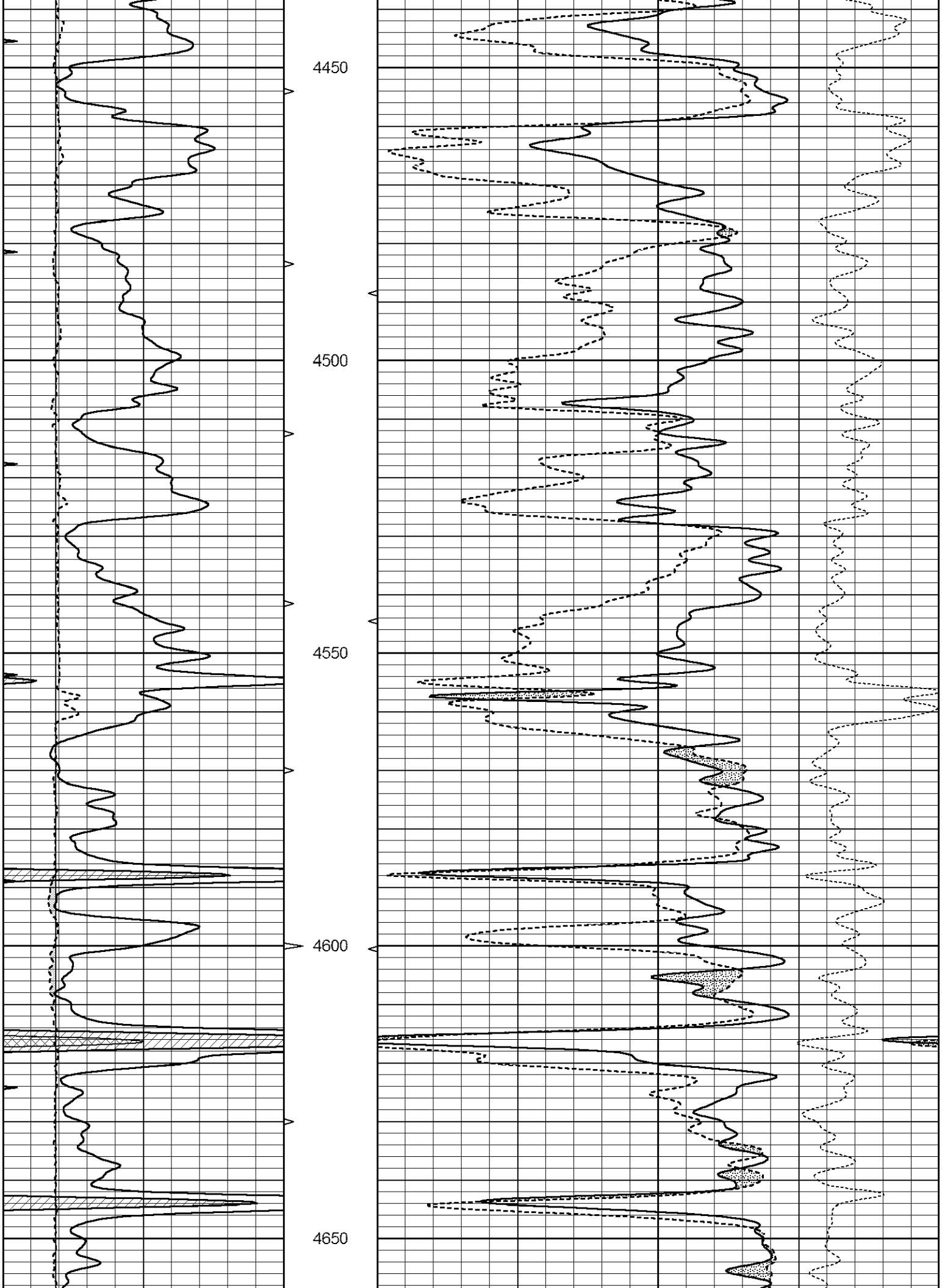
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu) -10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu) -10
0	MINMK	20	TBHV	-0.25	CORRECTION (g/cc) 0.25
			0 (ft3) 10		

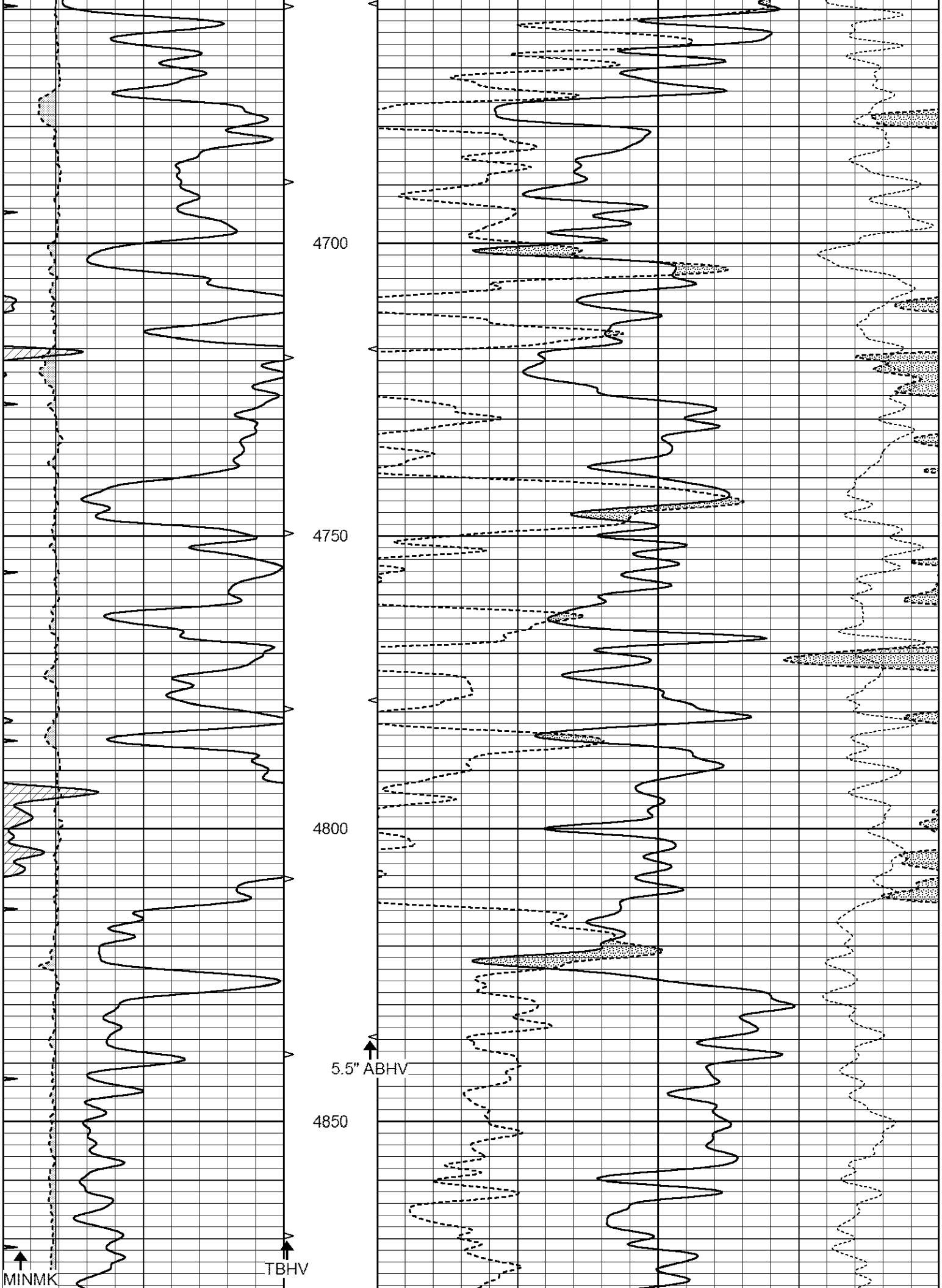


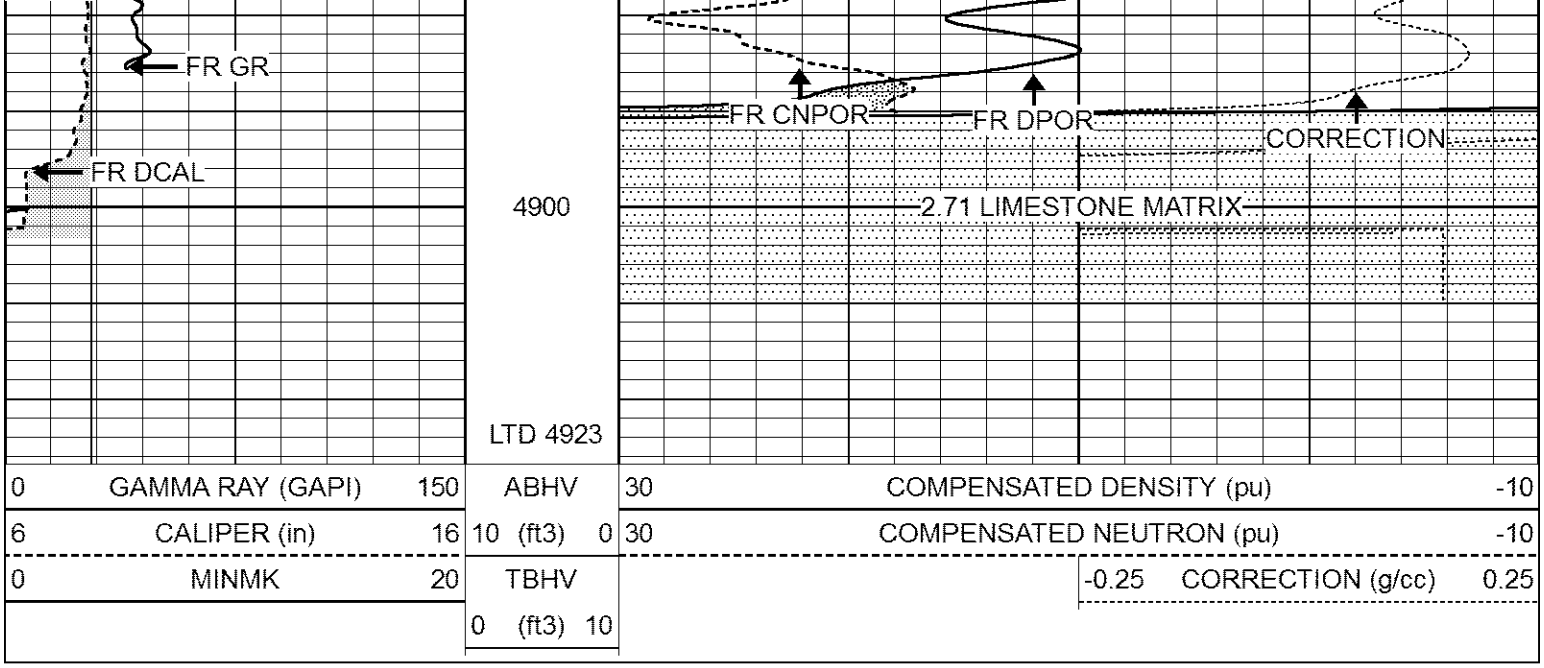

3800
3850
3900
3950


4000
4050
4100
4150
4200


4250
4300
4350
4400

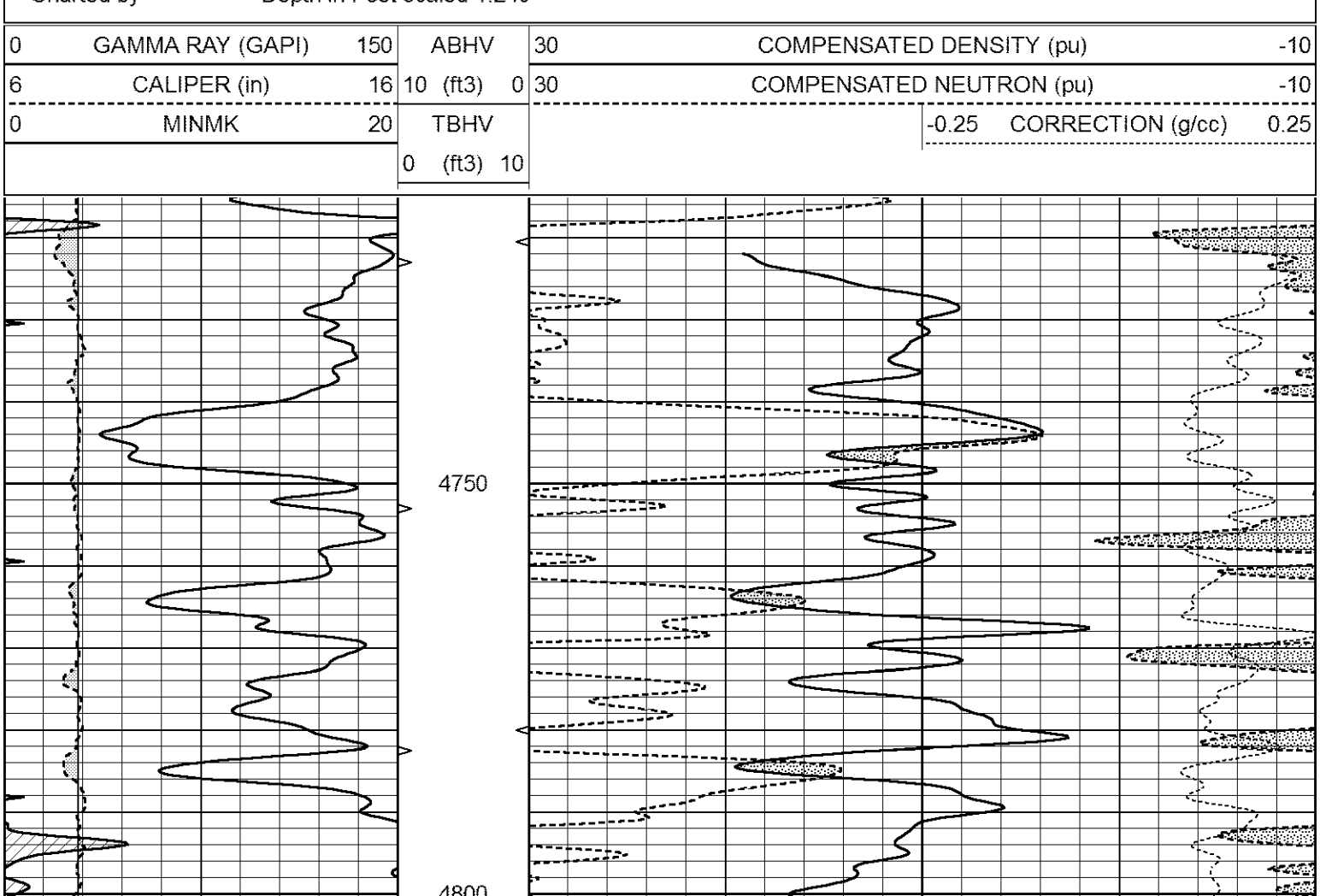

4450
4500
4550
4600
4650

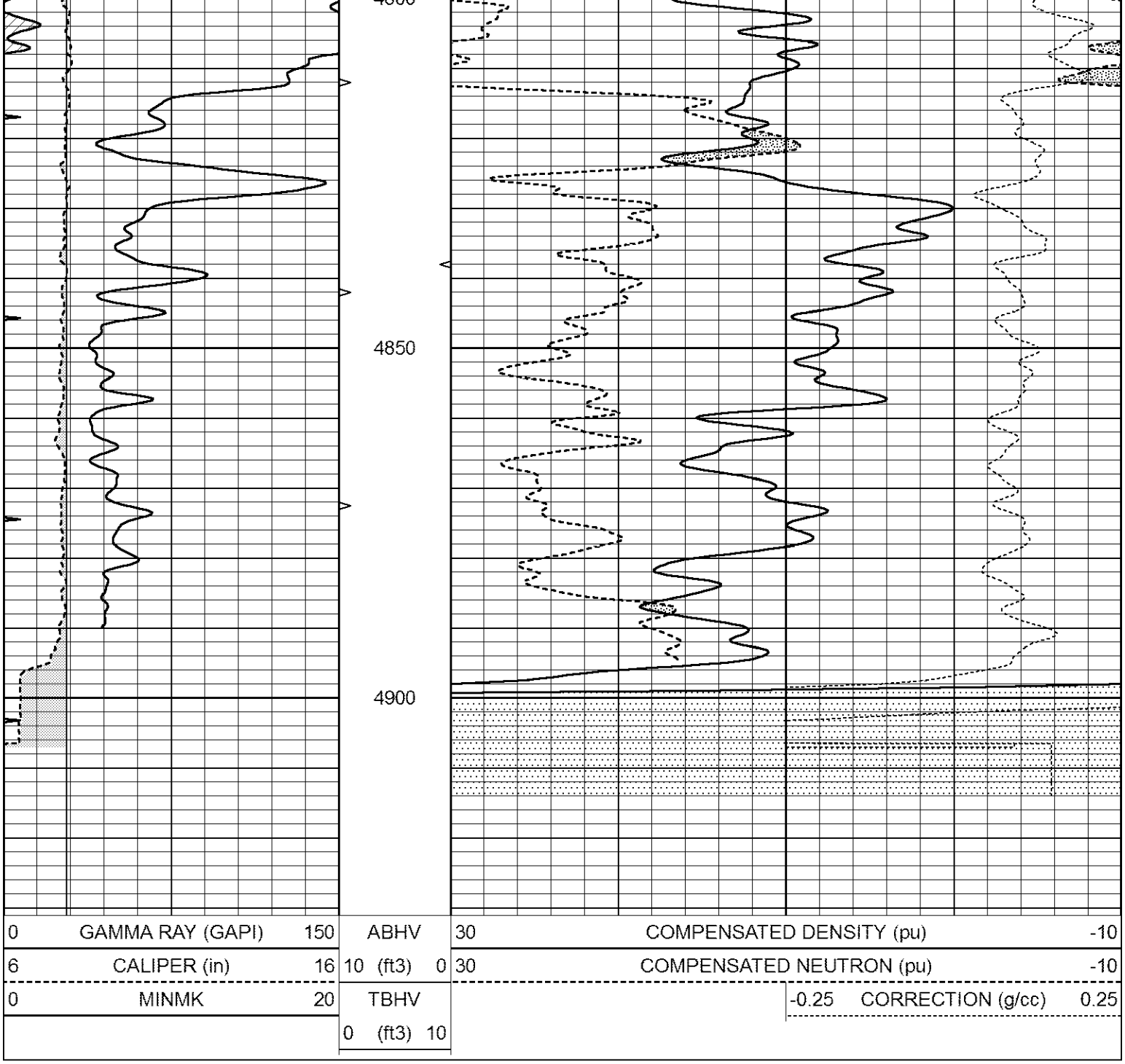

4700
4750
4800
5.5" ABHV
4850
MINMK
TBHV



REPEAT SECTION

Database File	6541ddn.db
Dataset Pathname	pass2.1R
Presentation Format	den_neu
Dataset Creation	Sat Jun 11 03:35:57 2022
Charted by	Depth in Feet scaled 1:240





Calibration Report

Database File	6541ddn.db
Dataset Pathname	pass3.1M
Dataset Creation	Sat Jun 11 03:28:21 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	-12.000

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 Readings		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: 0.6000 GAPI/cps