



**COMPENSATED
DENSITY/NEUTRON
LOG**

Company CHIZUM OIL, LLC.
Well LHR #2-26
Field GERTRUDE NORTHWEST
County SHERMAN
State KANSAS

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County SHERMAN State KANSAS

Location: API #: 15-181-20645-0000
1408' FNL & 2550' FEL
NW - NW - SW - NE
SEC 26 TWP 7S RGE 37W
Permanent Datum GROUND LEVEL Elevation 3437
Log Measured From KELLY BUSHING 6' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services DIL/MEL
Elevation
K.B. 3443
D.F. 3441
G.L. 3437

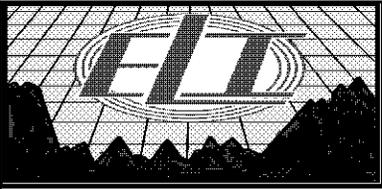
Date	6/25/22		
Run Number	ONE		
Depth Driller	4870		
Depth Logger	4871		
Bottom Logged Interval	4847		
Top Log Interval	3900		
Casing Driller	8 5/8" @ 368		
Casing Logger	368		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5.000 PPM	
Density / Viscosity	9.2/58		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.800 @ 80F		
Rmt @ Meas. Temp	.600 @ 80F		
Rmc @ Meas. Temp	.960 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	.516 @ 124F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	12:30 P.M.		
Maximum Recorded Temperature	124F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBBEN		
Witnessed By	TIM PRIEST		

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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

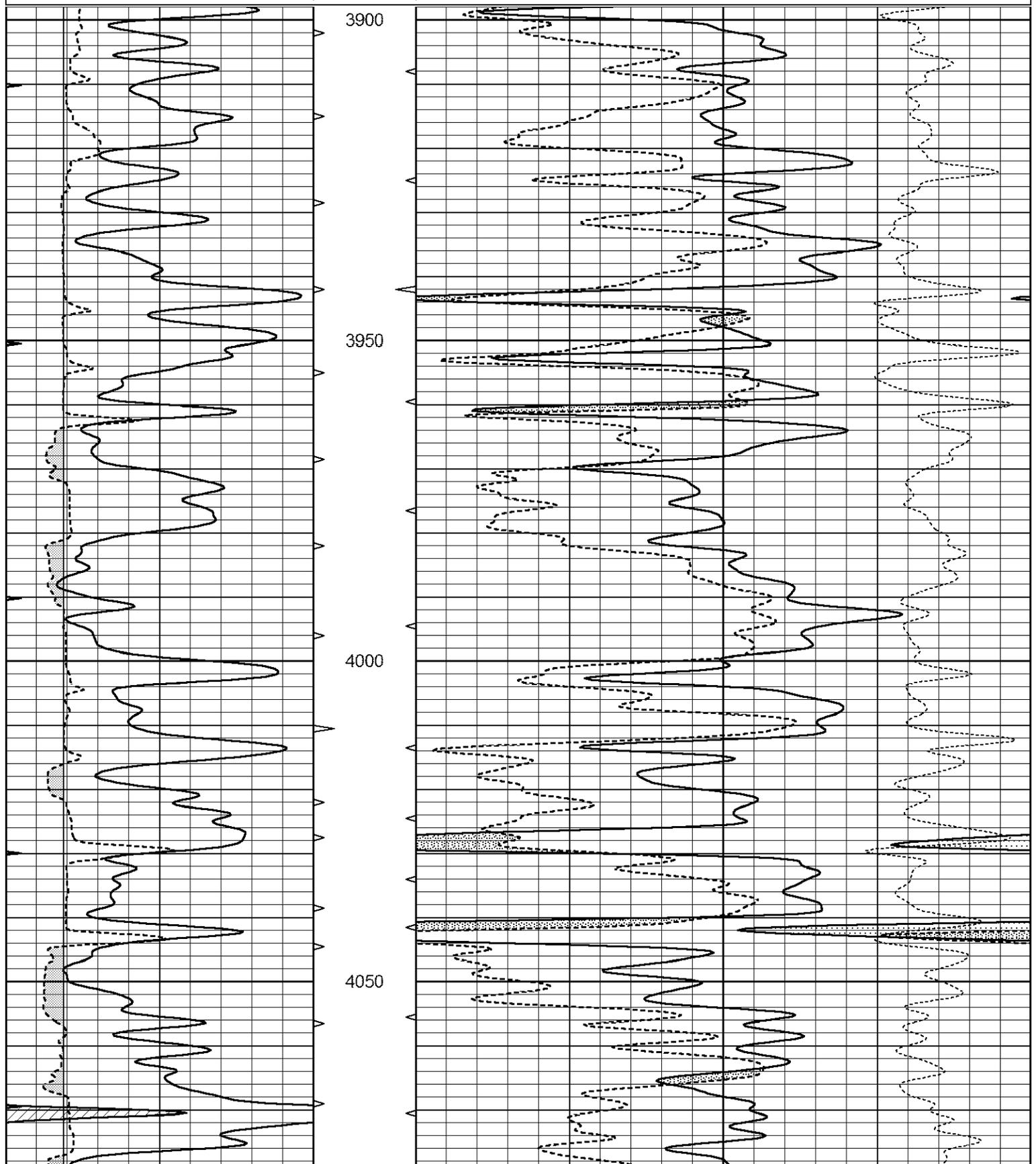
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS:
FROM BREWSTER, KANSAS TAKE MANCHESTER ROAD WEST THREE MILES
TO ROAD 35, NORTH TO ROAD 70, EAST HALF MILE, AND SOUTH INTO

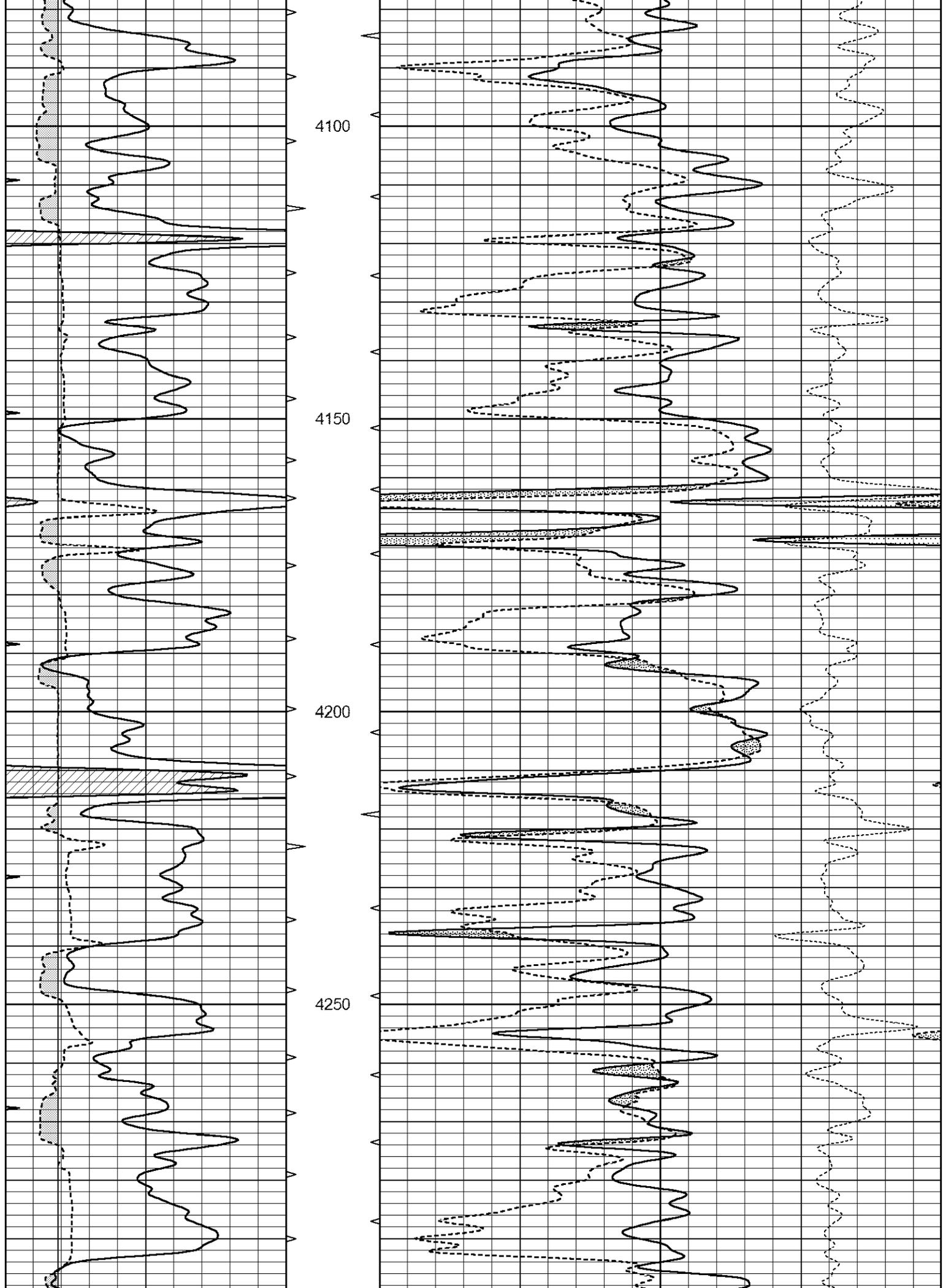


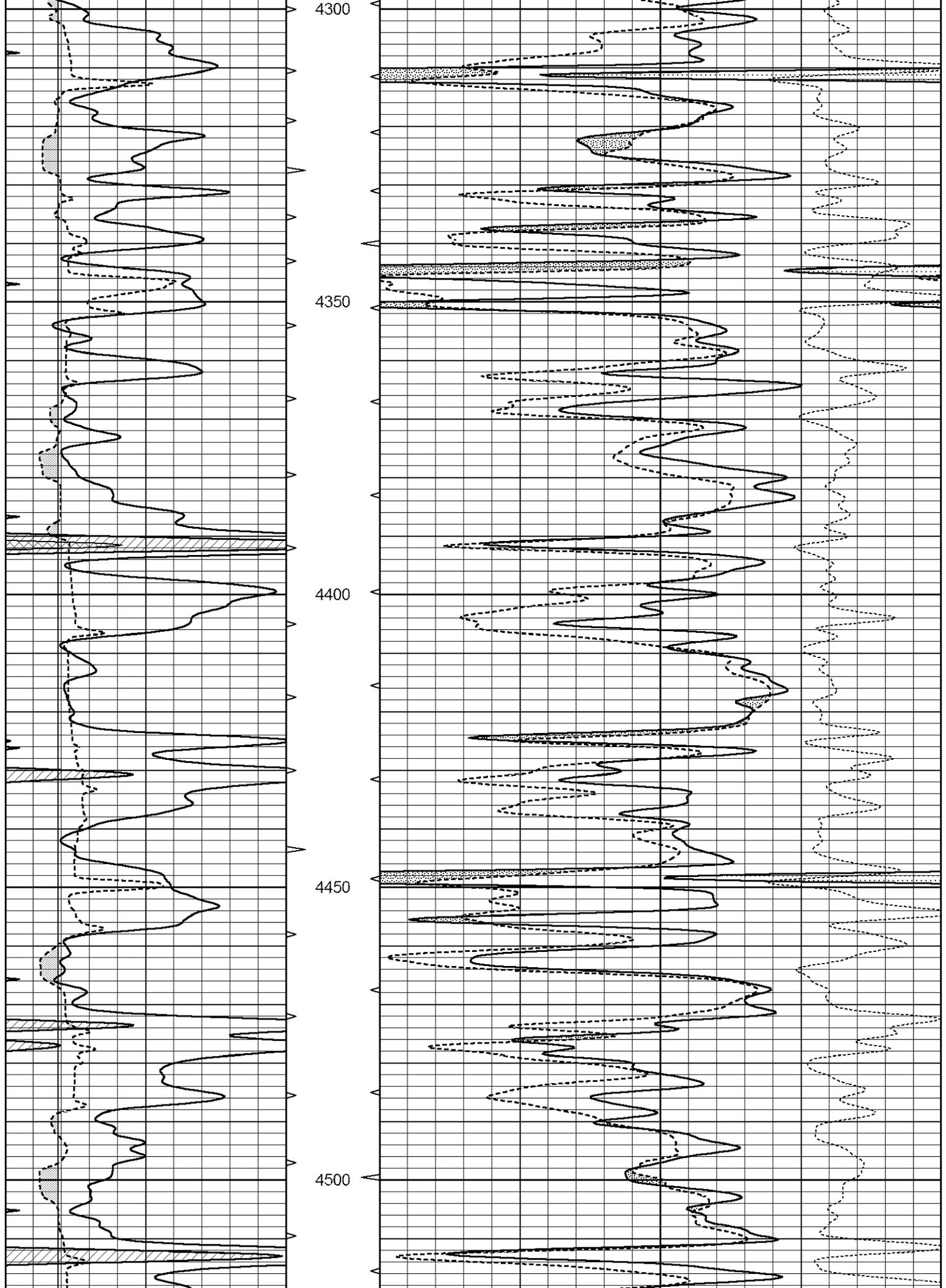
MAIN SECTION

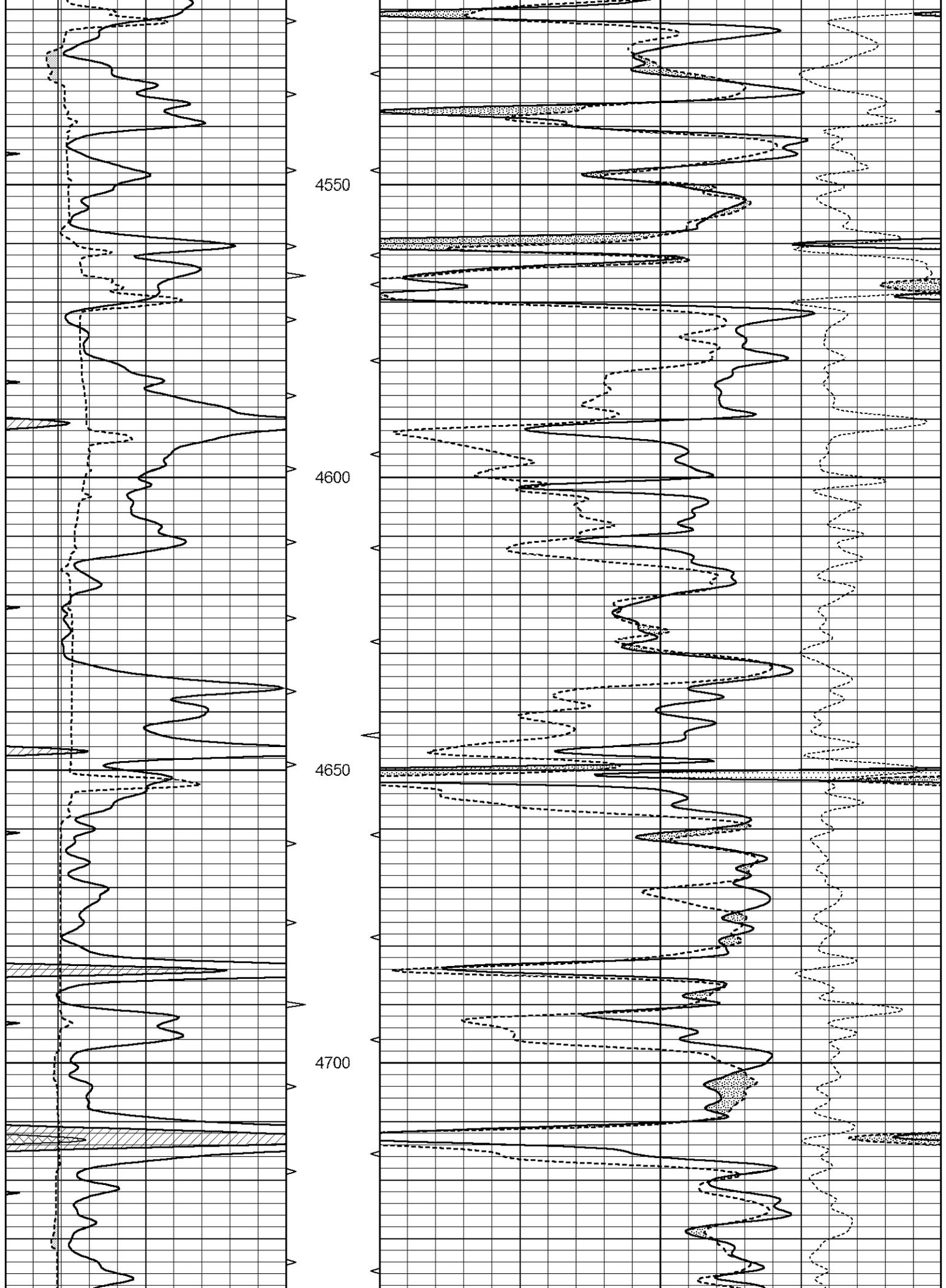
Database File 6547ddn.db
 Dataset Pathname pass8.1PM
 Presentation Format den_neu
 Dataset Creation Sat Jun 25 16:54:17 2022
 Charted by Depth in Feet scaled 1:240

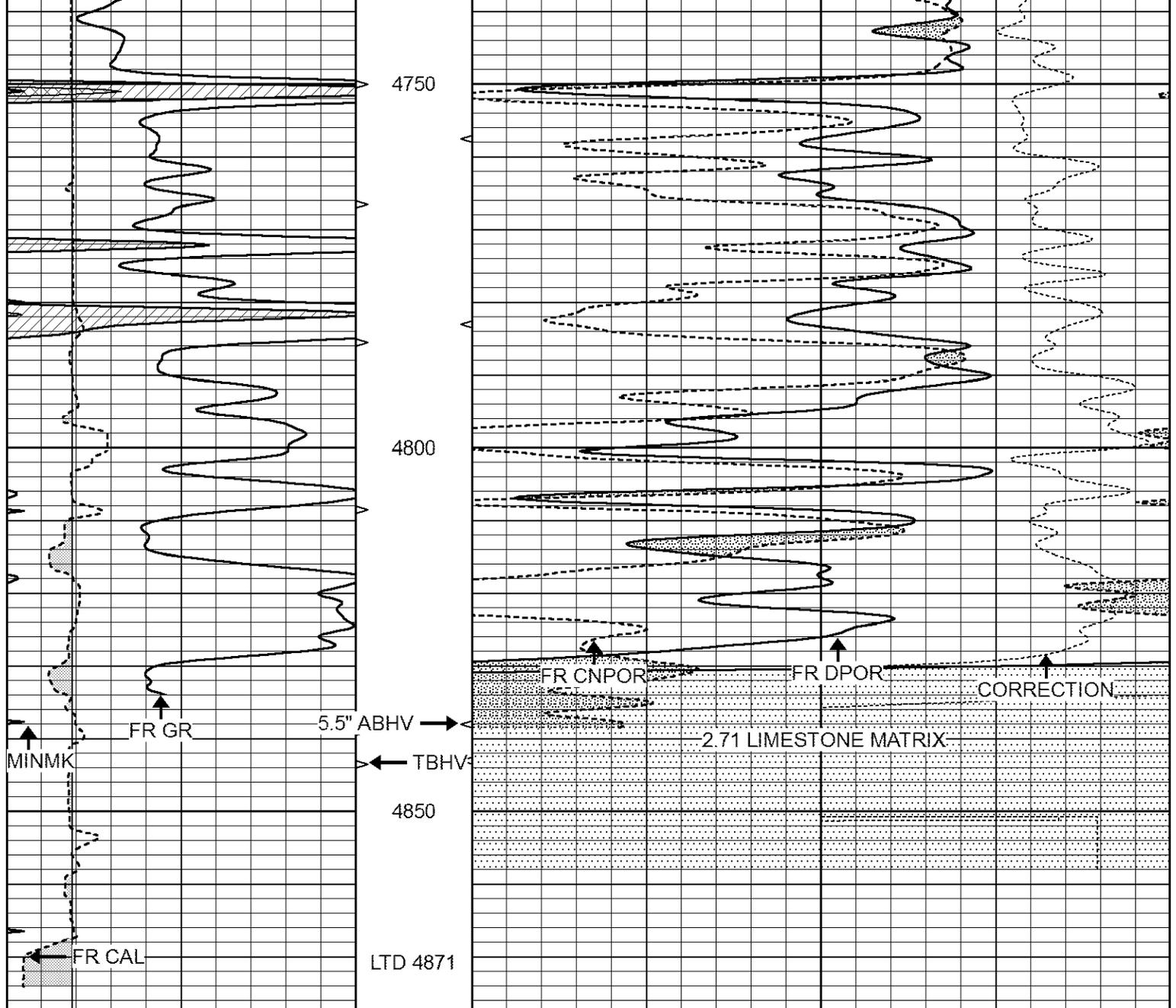
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV			-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10			











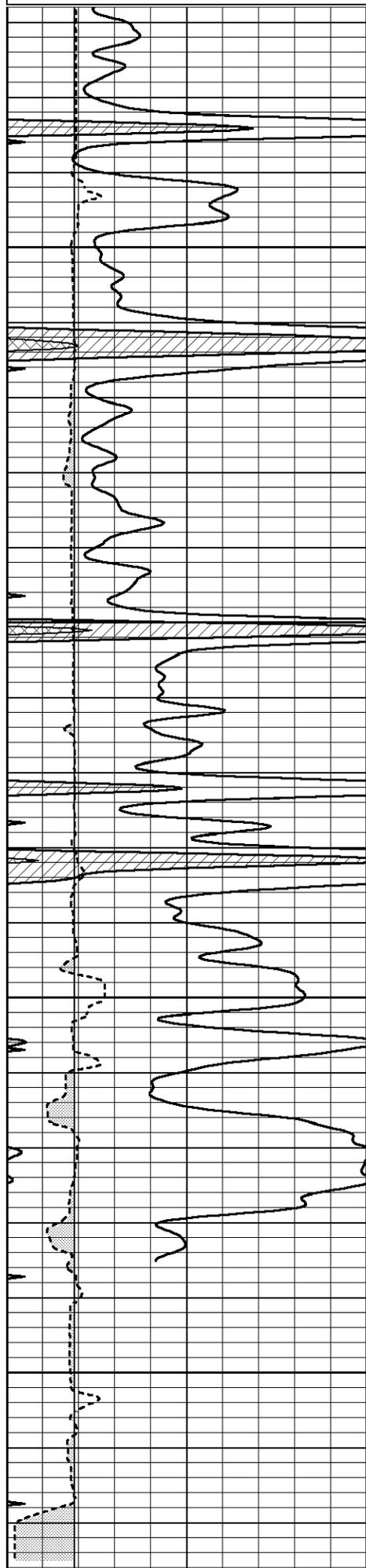
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		



REPEAT SECTION

Database File 6547ddn.db
 Dataset Pathname pass7.1P
 Presentation Format den_neu
 Dataset Creation Sat Jun 25 16:48:22 2022
 Charted by Depth in Feet scaled 1:240

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



4700

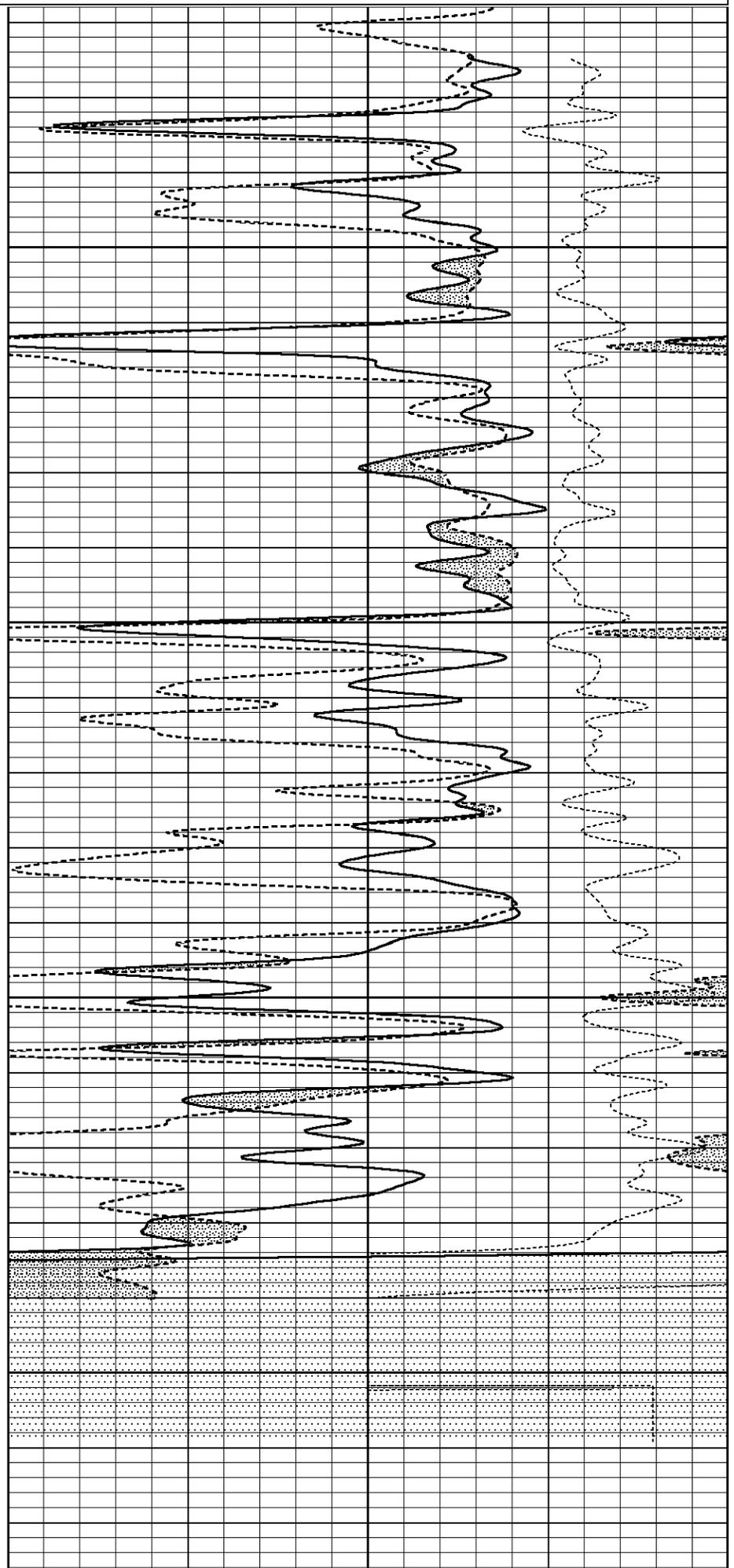
4750

4800

4850

0 GAMMA RAY (GAPI) 150

6 CALIPER (in) 16



30 COMPENSATED DENSITY (pu) -10

30 COMPENSATED NEUTRON (pu) -10

Calibration Report

Database File 6547ddn.db
 Dataset Pathname pass8.1PM
 Dataset Creation Sat Jun 25 16:54:17 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

Loop:	Readings			References			Results	
	Air	Loop	V	Air	Loop	mmho/m	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 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 May 23 14:22:47 2022

Results		Readings		References (in)		Gain	Offset
Low	High	Low	High	Low	High		
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		

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