



**COMPENSATED  
DENSITY/NEUTRON  
LOG**

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

Location: API #: 15-153-21290-00-00  
 2129' FNL & 908' FWL  
 NW - SE - SW - NW  
 SEC 17 TWP 5S RGE 36W  
 Permanent Datum GROUND LEVEL Elevation 3347  
 Log Measured From KELLY BUSHING 1' A.G.L.  
 Drilling Measured From KELLY BUSHING  
 Other Services  
 DILMEL  
 SONIC  
 Elevation  
 K.B. 3358  
 D.F. 3356  
 G.L. 3347

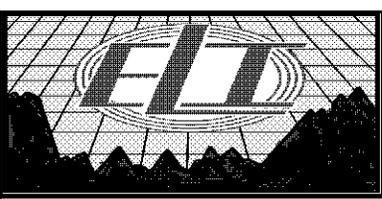
Date	6/1/22		
Run Number	ONE		
Depth Driller	4955		
Depth Logger	4954		
Bottom Logged Interval	4930		
Top Log Interval	3600		
Casing Driller	8 5/8"@486'		
Casing Logger	482		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 800 PPM	
Density / Viscosity	9.1/62		
PH / Fluid Loss	10.0/7.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	2.10@75F		
Rmt @ Meas. Temp	1.58@75F		
Rmc @ Meas. Temp	2.52@75F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	1.26@125F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	6:00 P.M.		
Maximum Recorded Temperature	125F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBBEN	TJ DREILING	
Witnessed By	MARC DOWNING		

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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

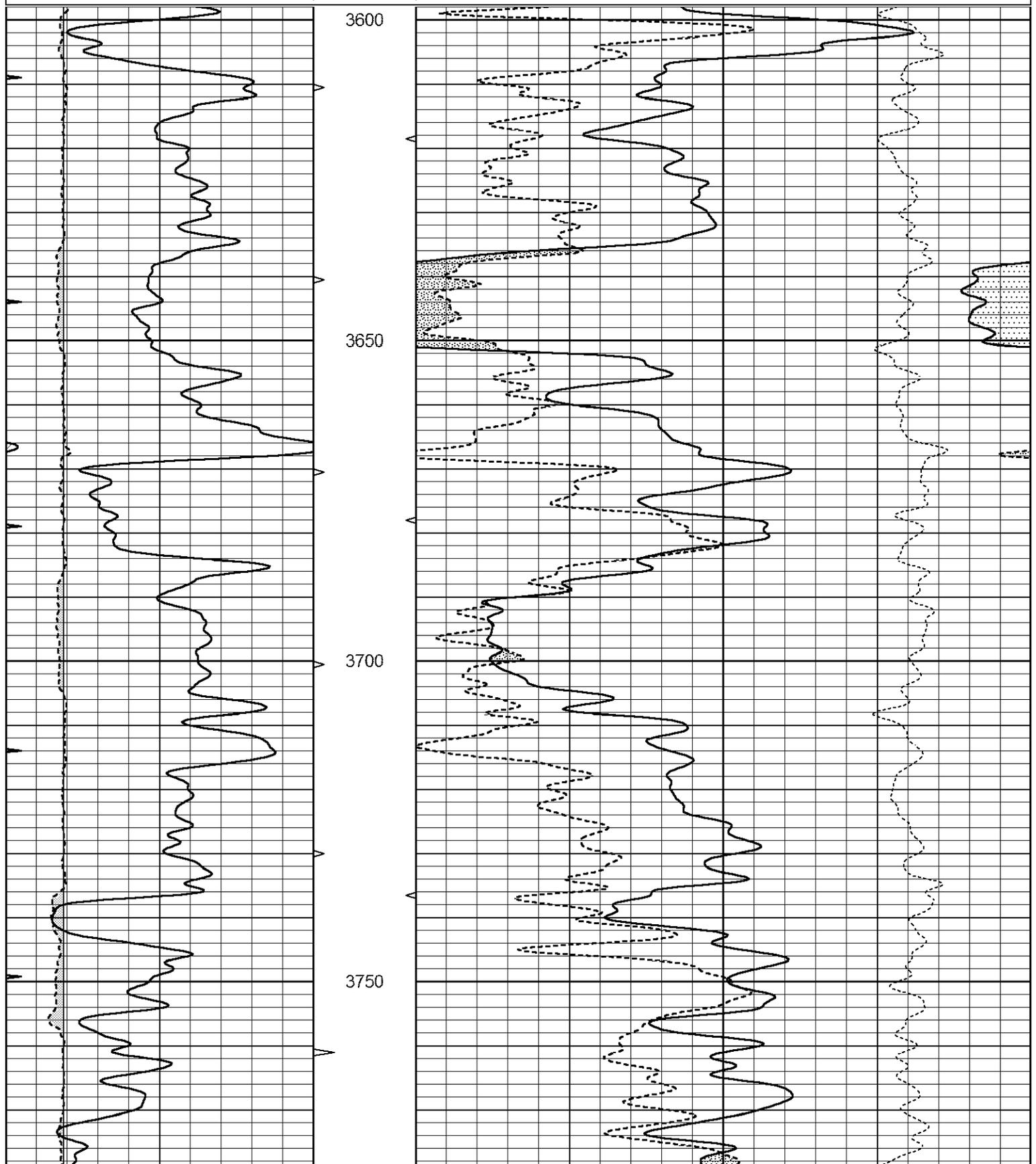
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. ( 785 ) 628-6395  
 DIRECTIONS:  
 BREWSTER, KS. NORTH ON BLACKTOP TO CURVE WEST, THEN 3 MILES NORTH,  
 1/2 MILE WEST, AND NORTH INTO EAST OF TANK BATTERY

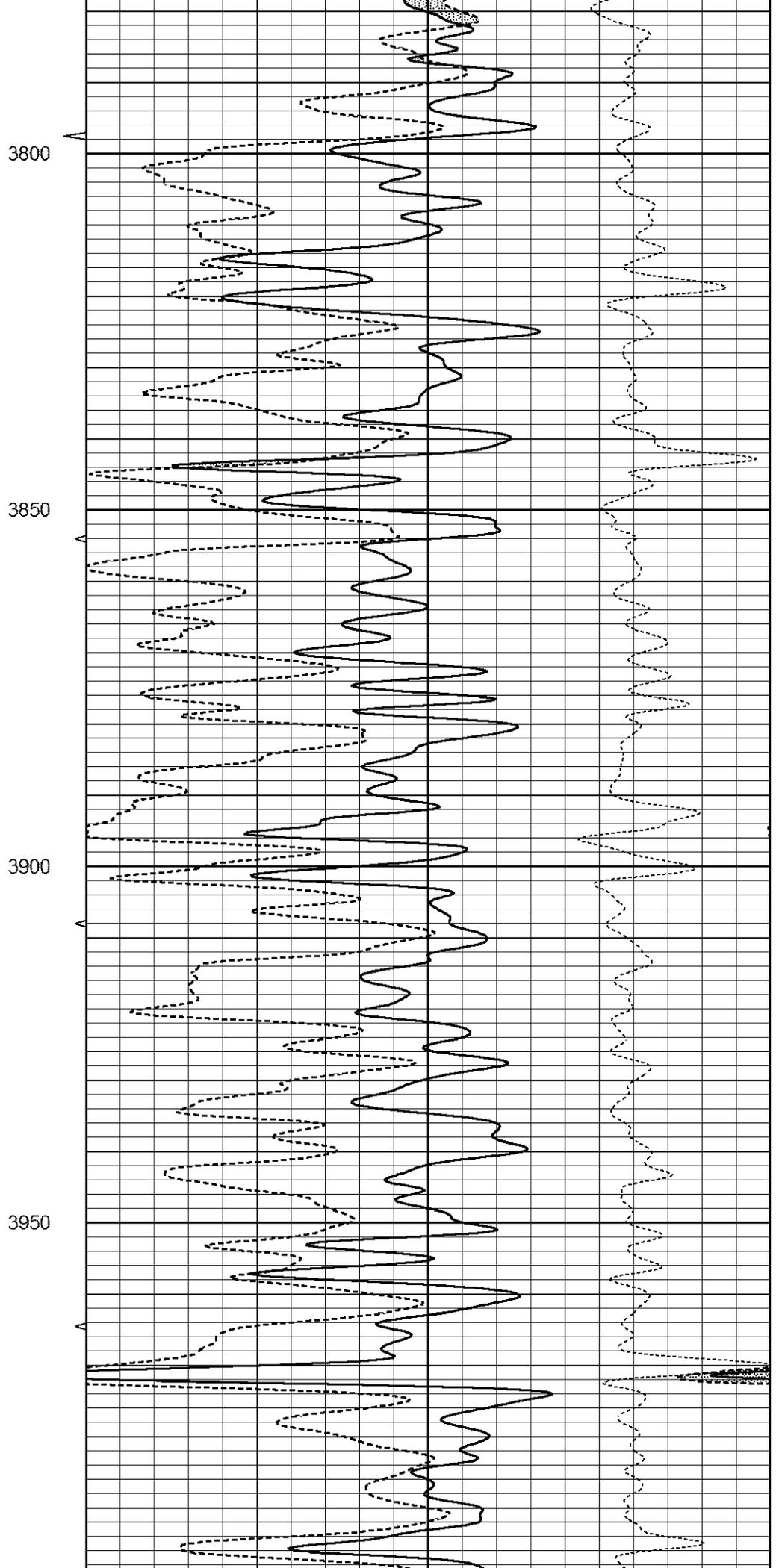
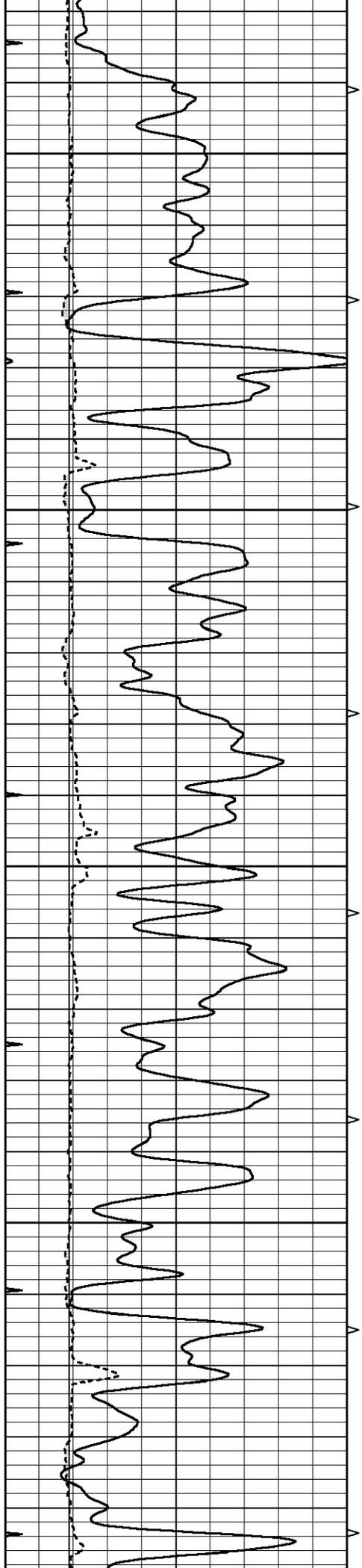


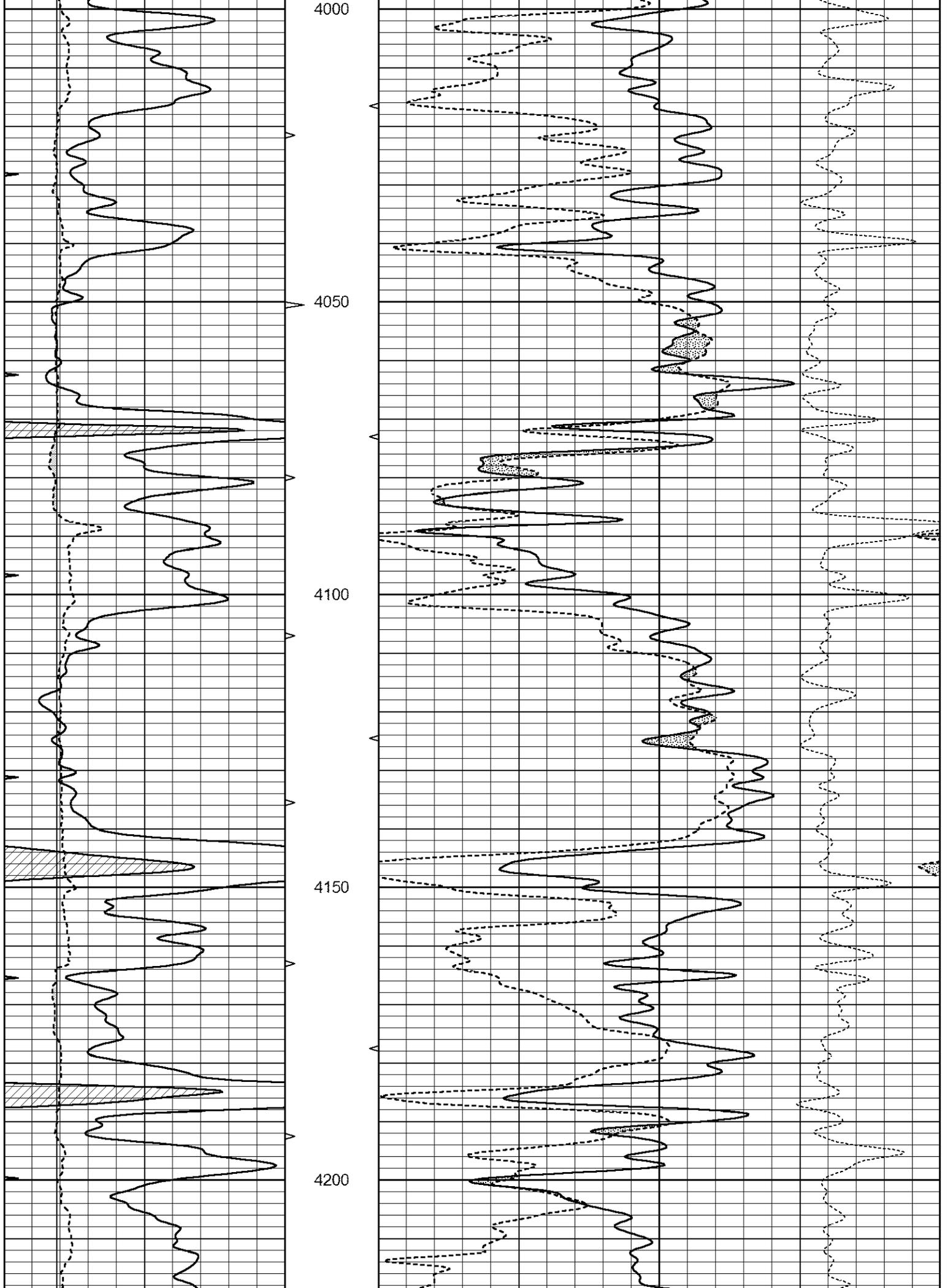
**MAIN SECTION**

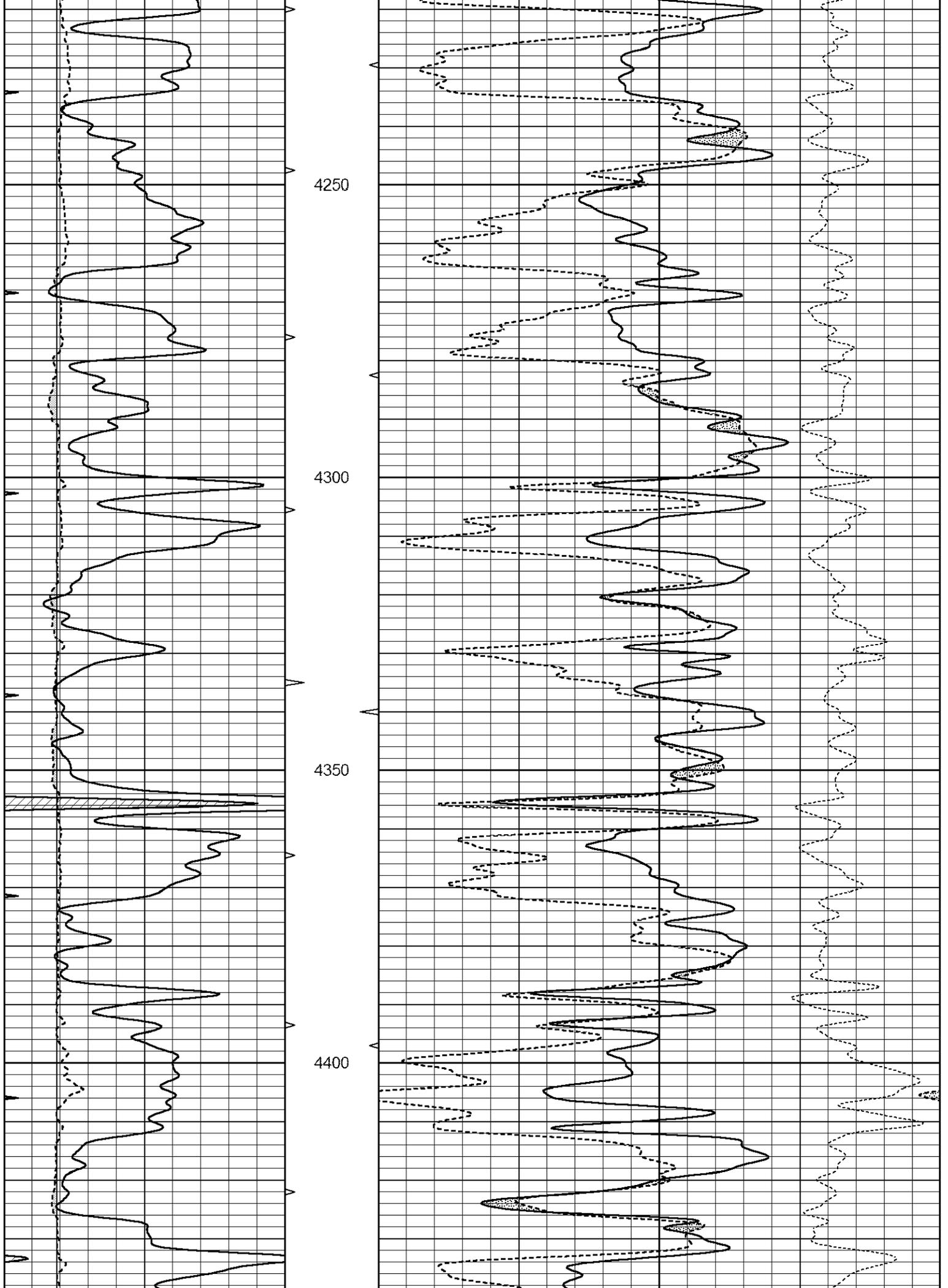
Database File 6537ddn.db  
 Dataset Pathname pass3.1M  
 Presentation Format den\_neu  
 Dataset Creation Wed Jun 01 19:54:29 2022  
 Charted by Depth in Feet scaled 1:240

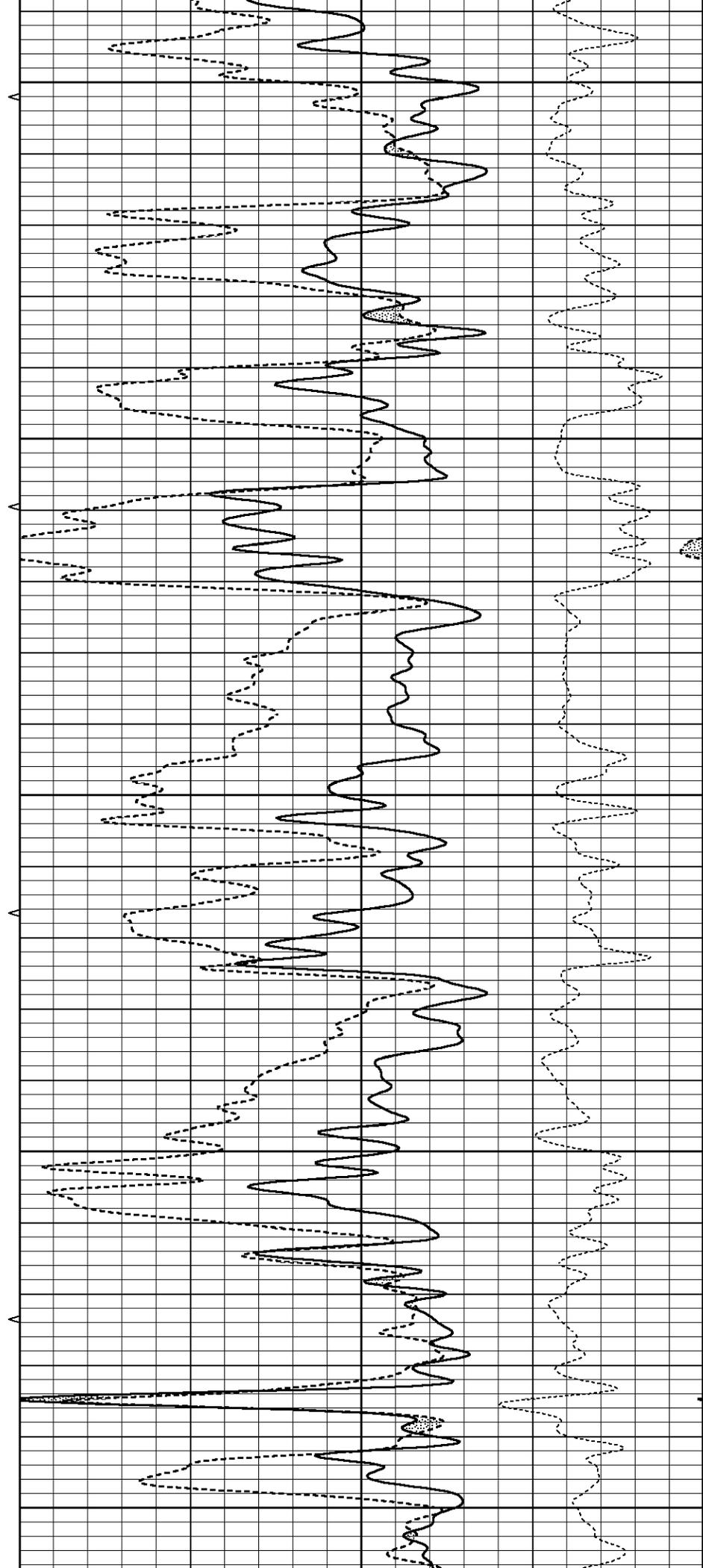
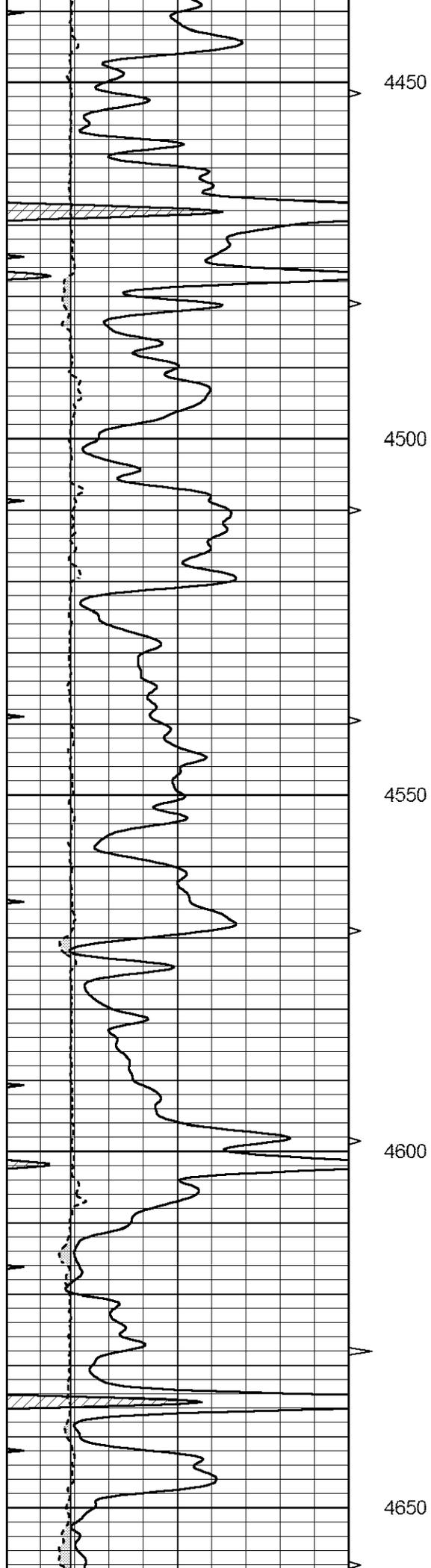
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV			-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10			

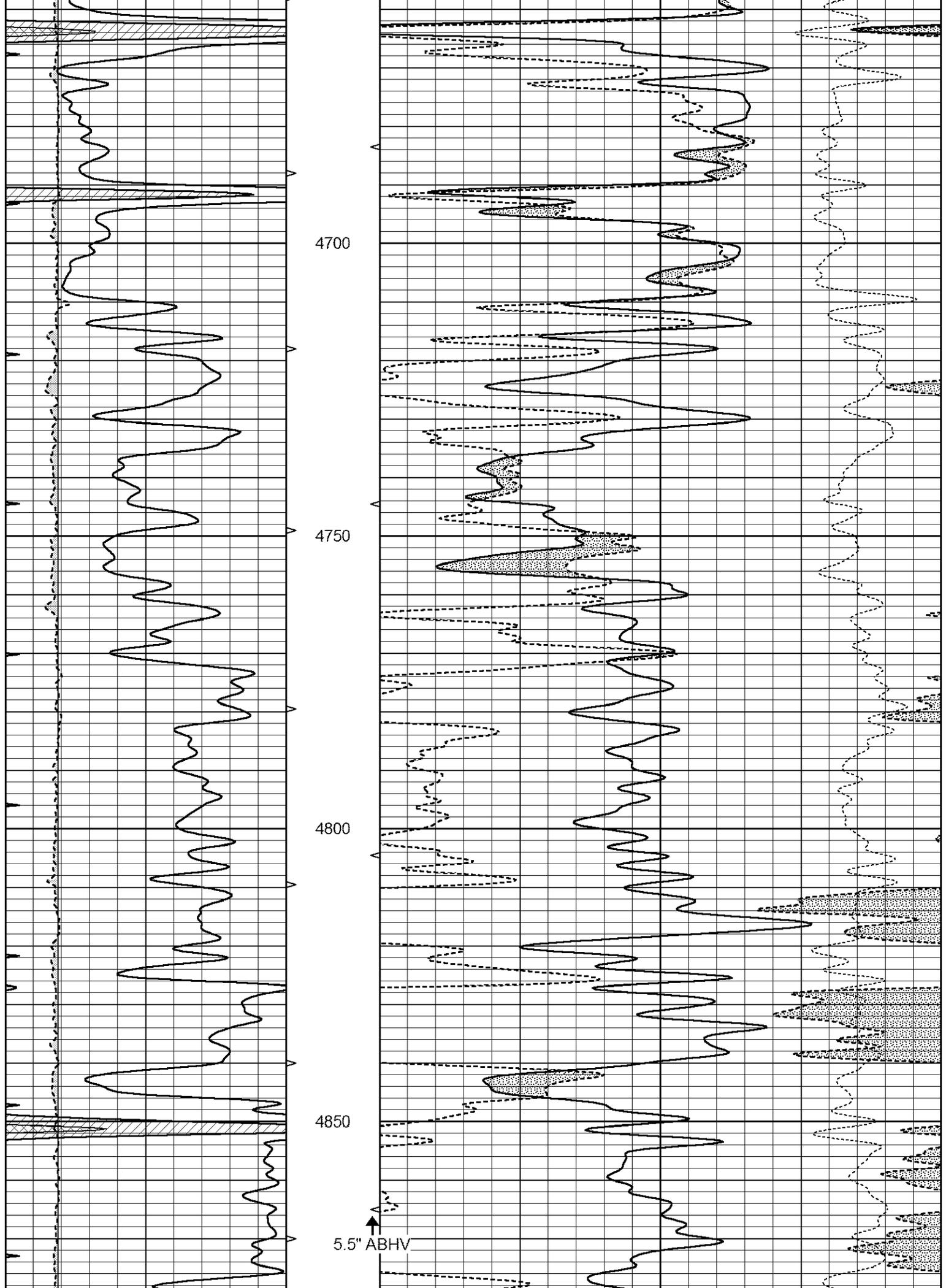


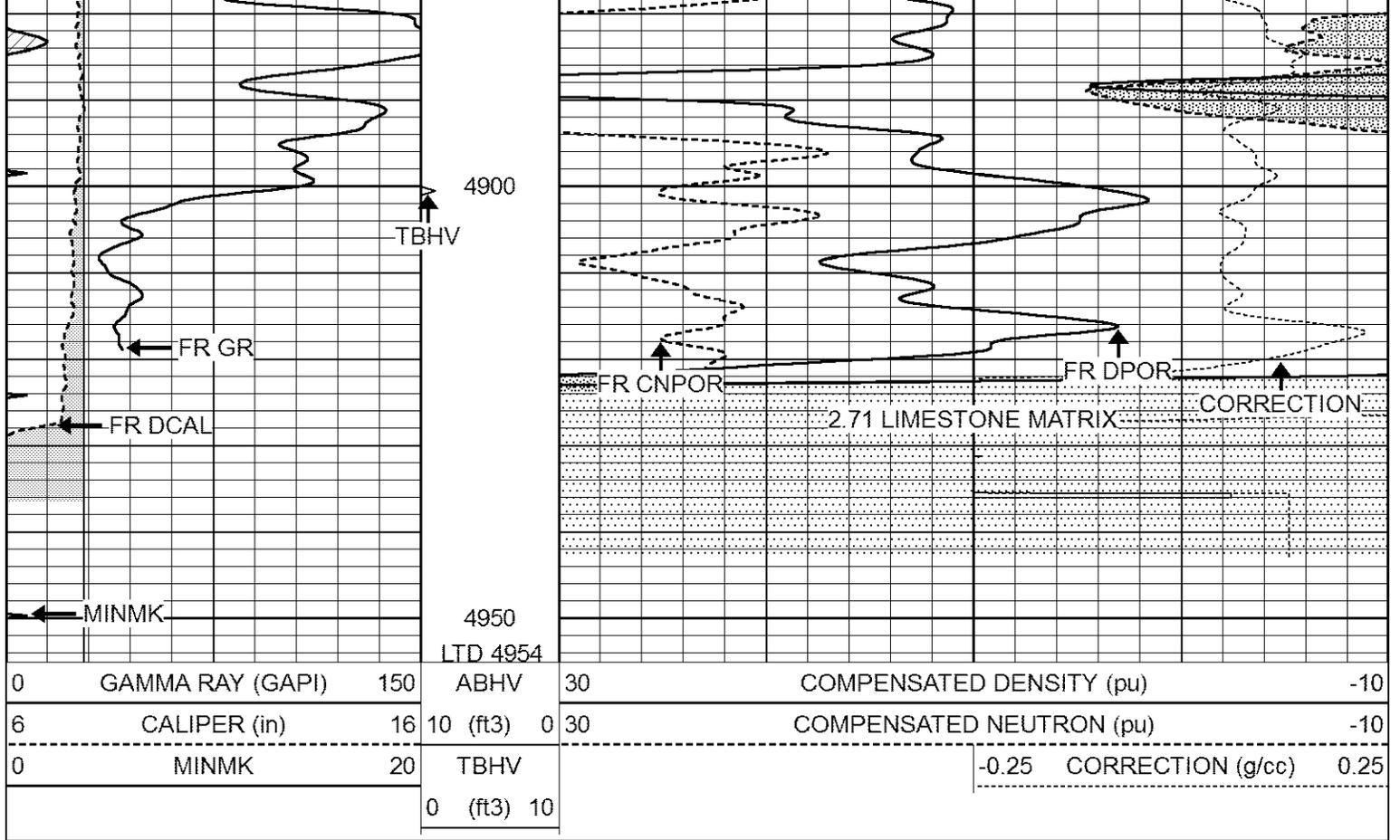








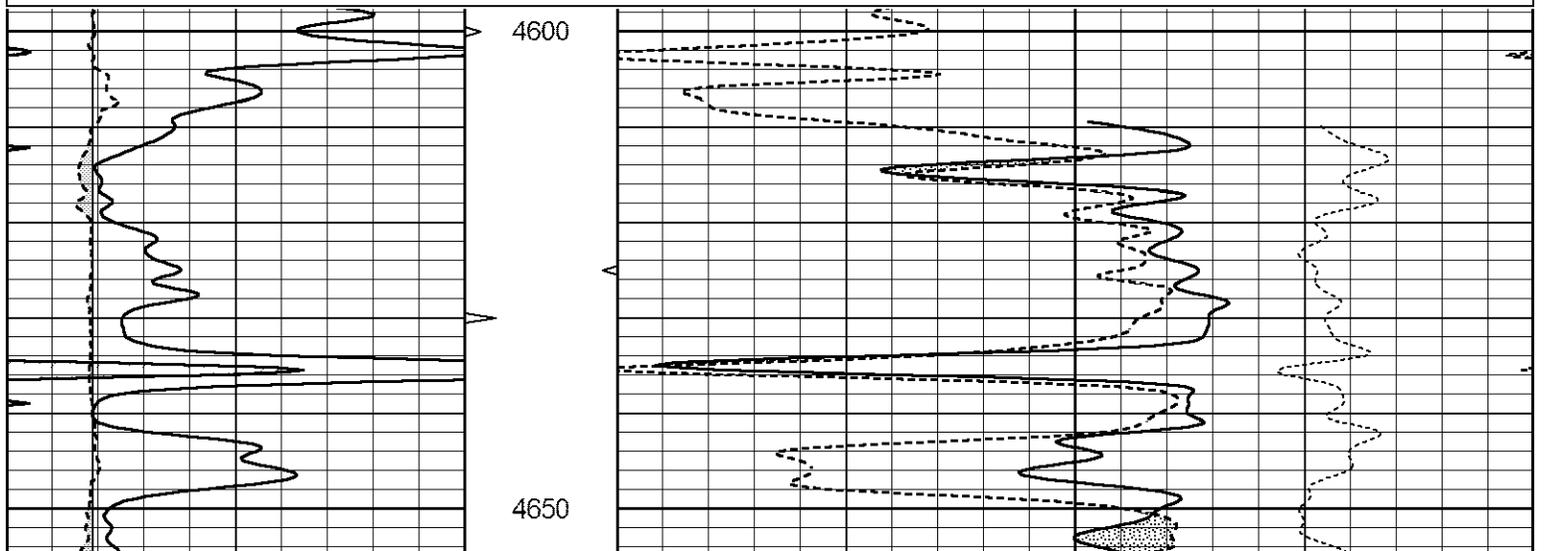


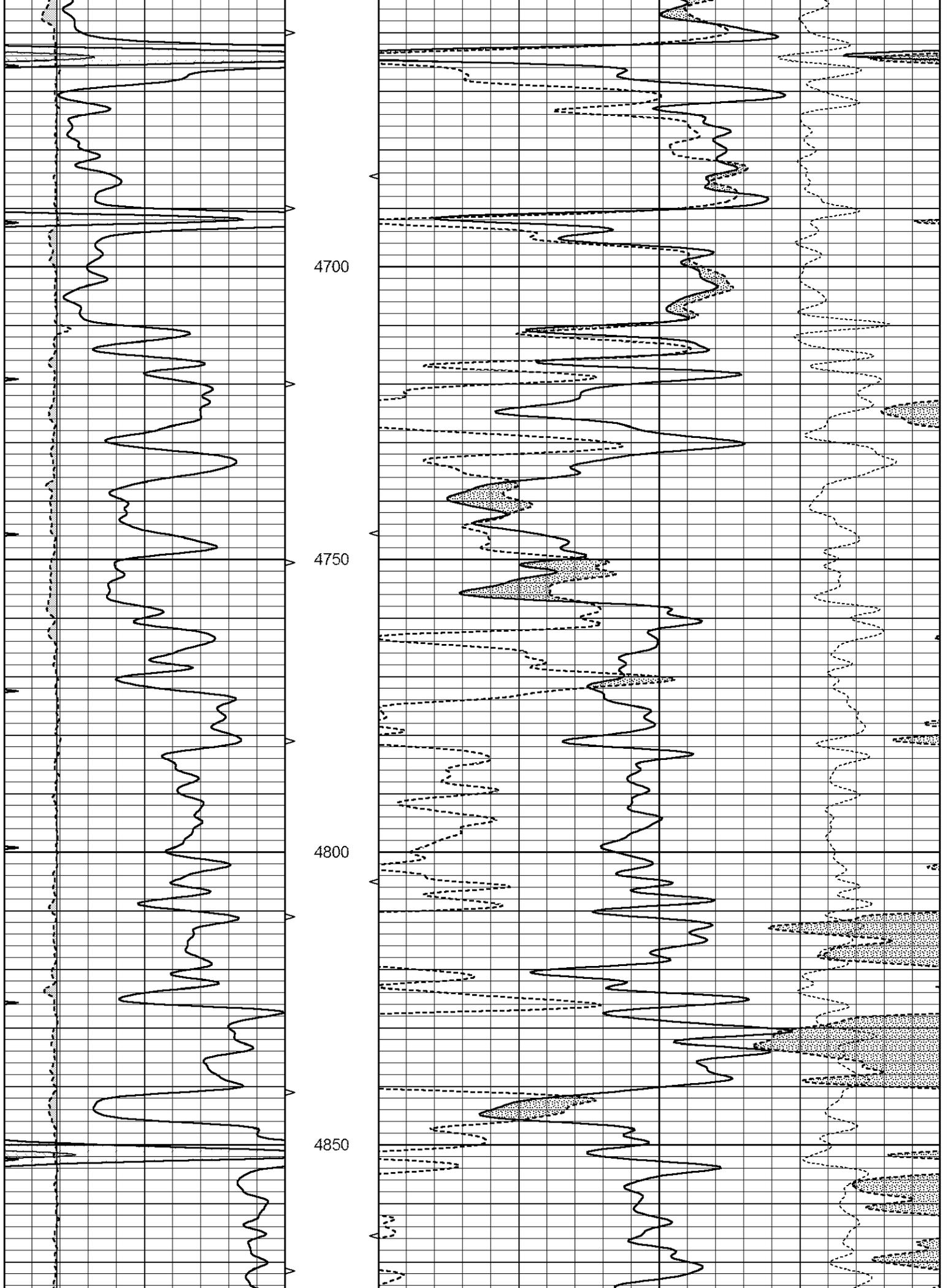


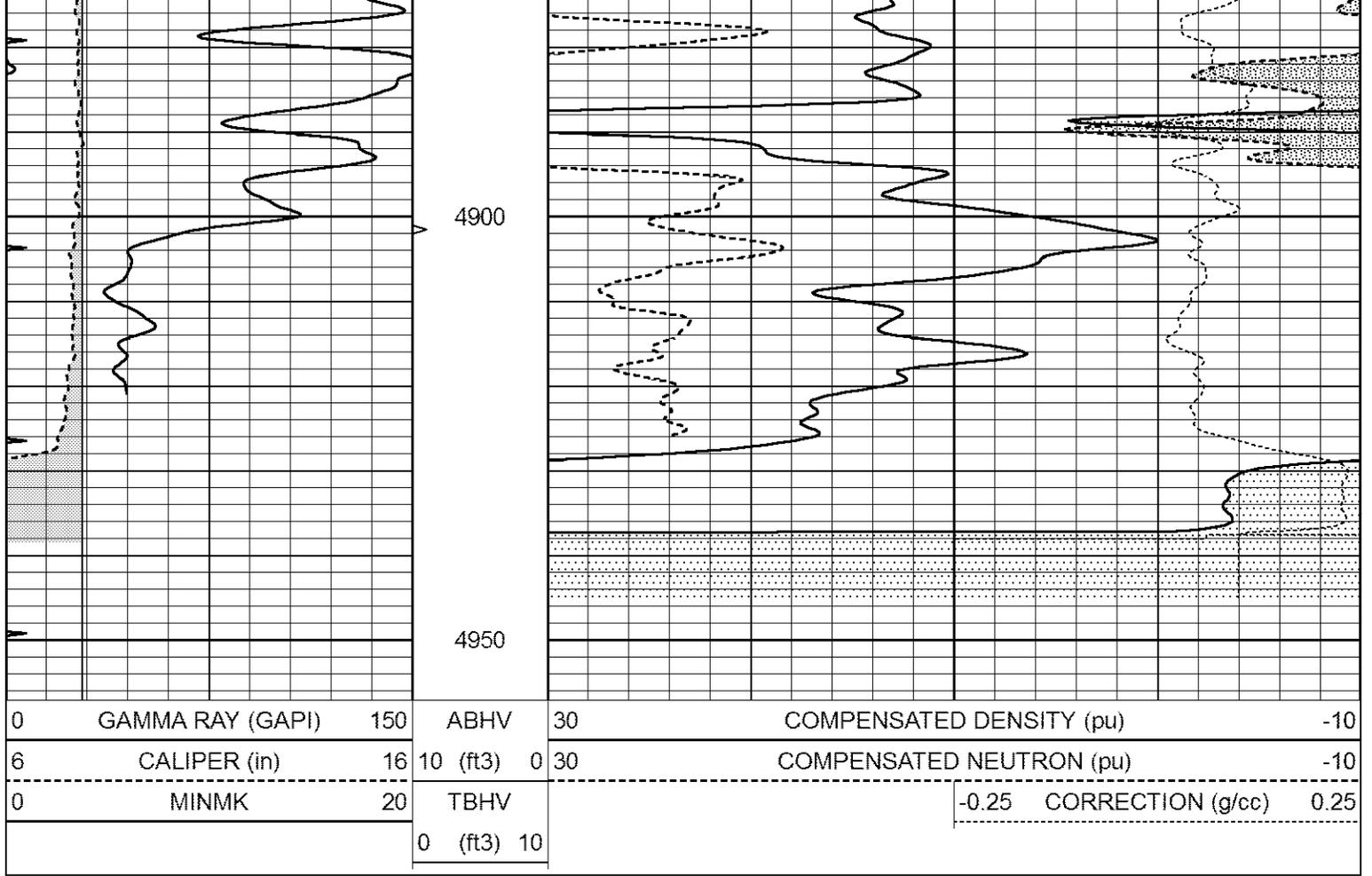
# REPEAT SECTION

Database File 6537ddn.db  
 Dataset Pathname pass2.1R  
 Presentation Format den\_neu  
 Dataset Creation Wed Jun 01 18:45:23 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		







### Calibration Report

Database File 6537ddn.db  
 Dataset Pathname pass3.1M  
 Dataset Creation Wed Jun 01 19:54:29 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	-11.000
Internal:	Zero	Cal	V	Zero	Cal	mmho/m	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	V	Zero	Cal	mmho/m	m'	b'
Deep	-0.824	395.917	V	-0.976	397.550	mmho/m	1.004	-0.149
Medium	3.565	471.327	V	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		

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		
	8210.8	12139.3	7.0	14.0	0.0	-7.5

Before Survey Caliper Verification

Performed:

Reference	Reading
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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