



**COMPENSATED
DENSITY/NEUTRON
LOG**

Company **BLAKE EXPLORATION, LLC.**
Well **THE BETSY #1**
Field **OAKLEY**
County **LOGAN** State **KANSAS**

Location: **API # : 15-109-21651-0000**
400' FSL & 2640' FEL
N2 - S2 - S2 - S2
SEC 10 TWP 11S RGE 32W

Permanent Datum **GROUND LEVEL Elevation 3057**
Log Measured From **KELLY BUSHING 7' A.G.L**
Drilling Measured From **KELLY BUSHING**

Other Services **DILMEL**
Elevation **K.B. 3064
D.F. 3062
G.L. 3057**

Date	8/22/22		
Run Number	ONE		
Depth Driller	4640		
Depth Logger	4642		
Bottom Logged Interval	4618		
Top Log Interval	3700		
Casing Driller	8 5/8" @ 262		
Casing Logger	262		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4000 PPM	
Density / Viscosity	9.2/76		
pH / Fluid Loss	10.0/8.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.900 @ 80F		
Rmt @ Meas. Temp	.675 @ 80F		
Rmc @ Meas. Temp	1.08 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.590 @ 122F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	11:00 A.M.		
Maximum Recorded Temperature	122F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBBEN		
Witnessed By	MIKE DAVIGNON		

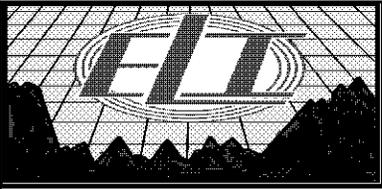
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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

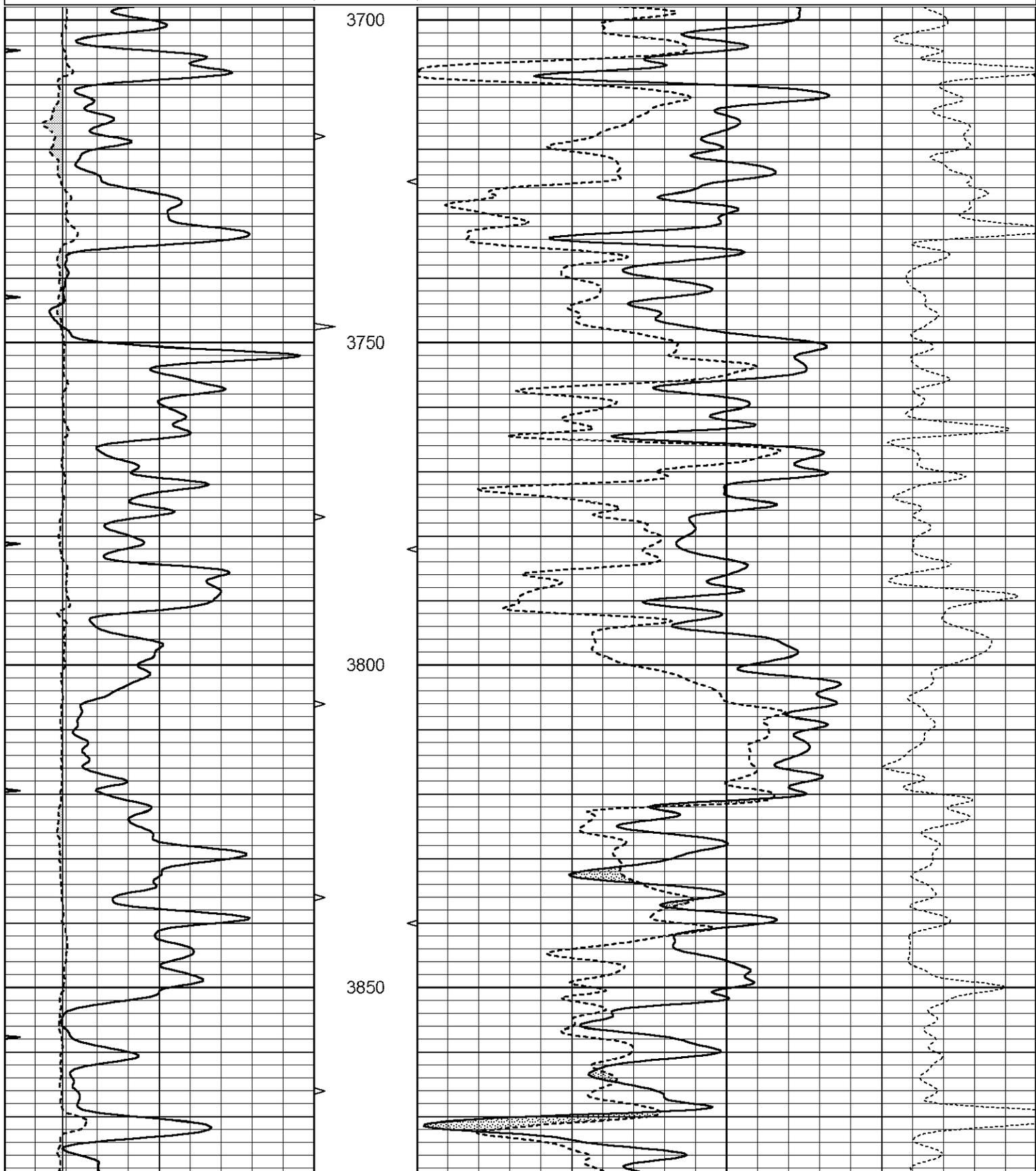
DIRECTIONS:
OAKLEY, KANSAS SOUTH ON HIGHWAY 83 1 MILE, 1/2 MILE WEST,
NORTH INTO

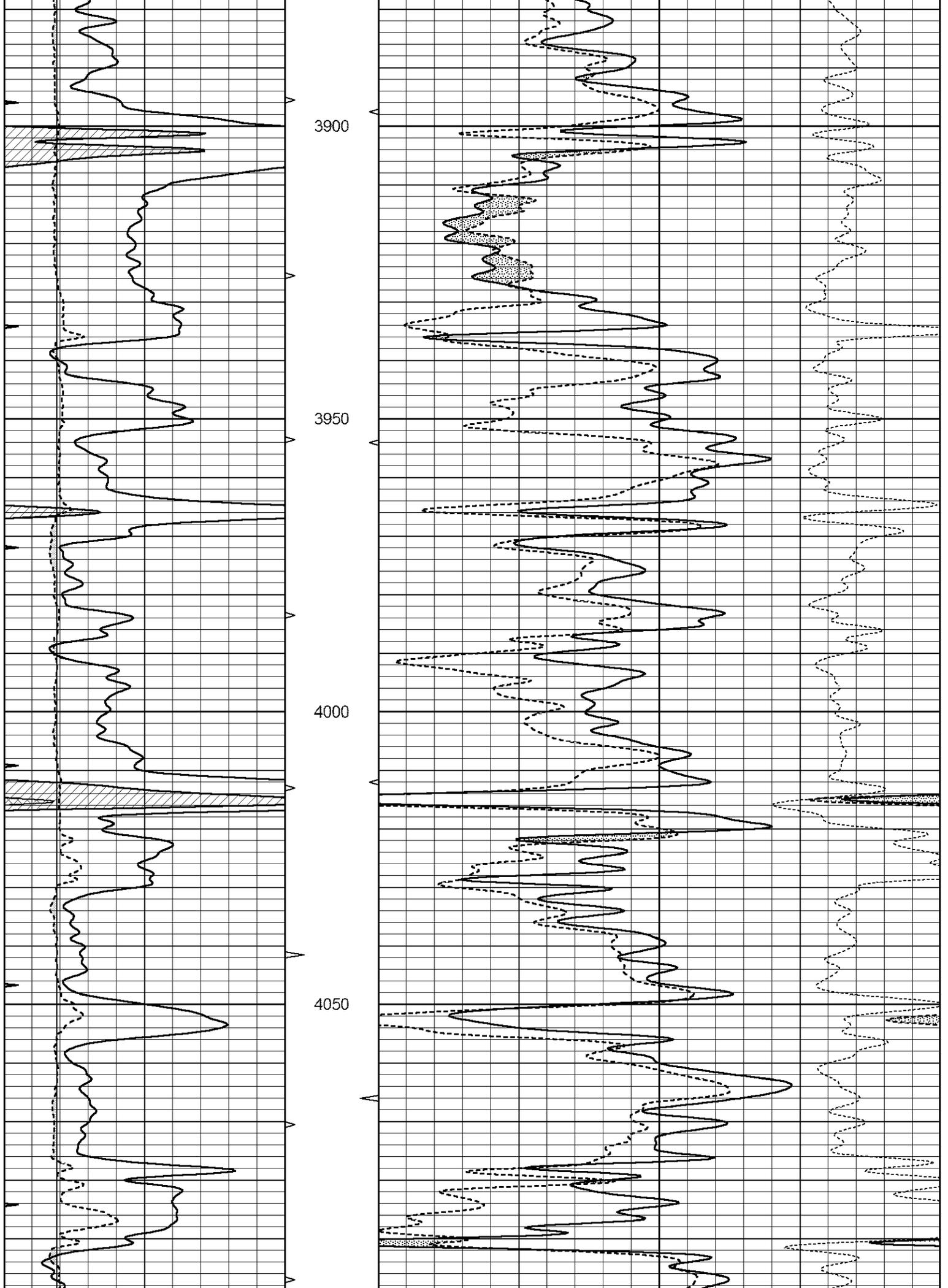


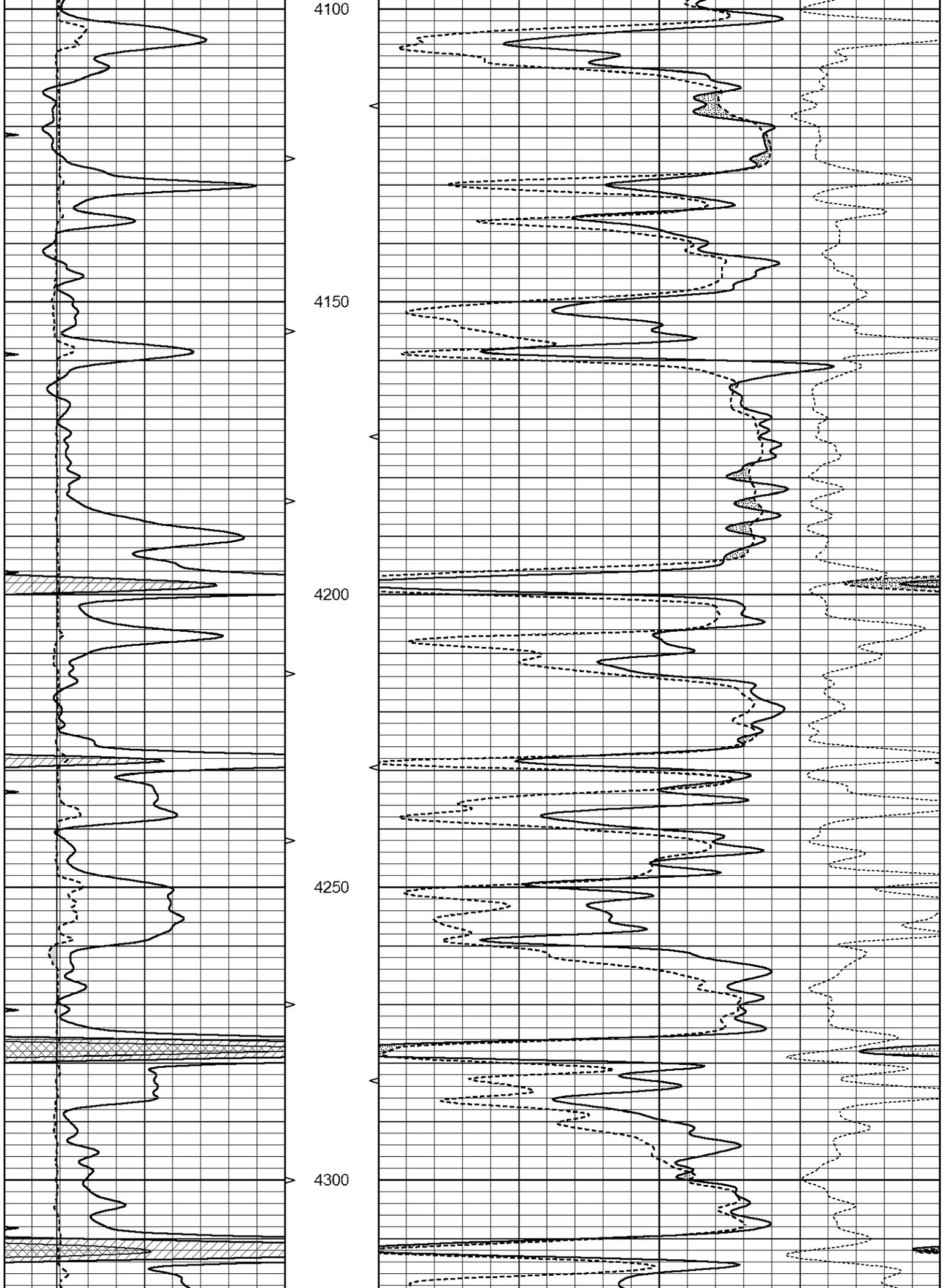
MAIN SECTION

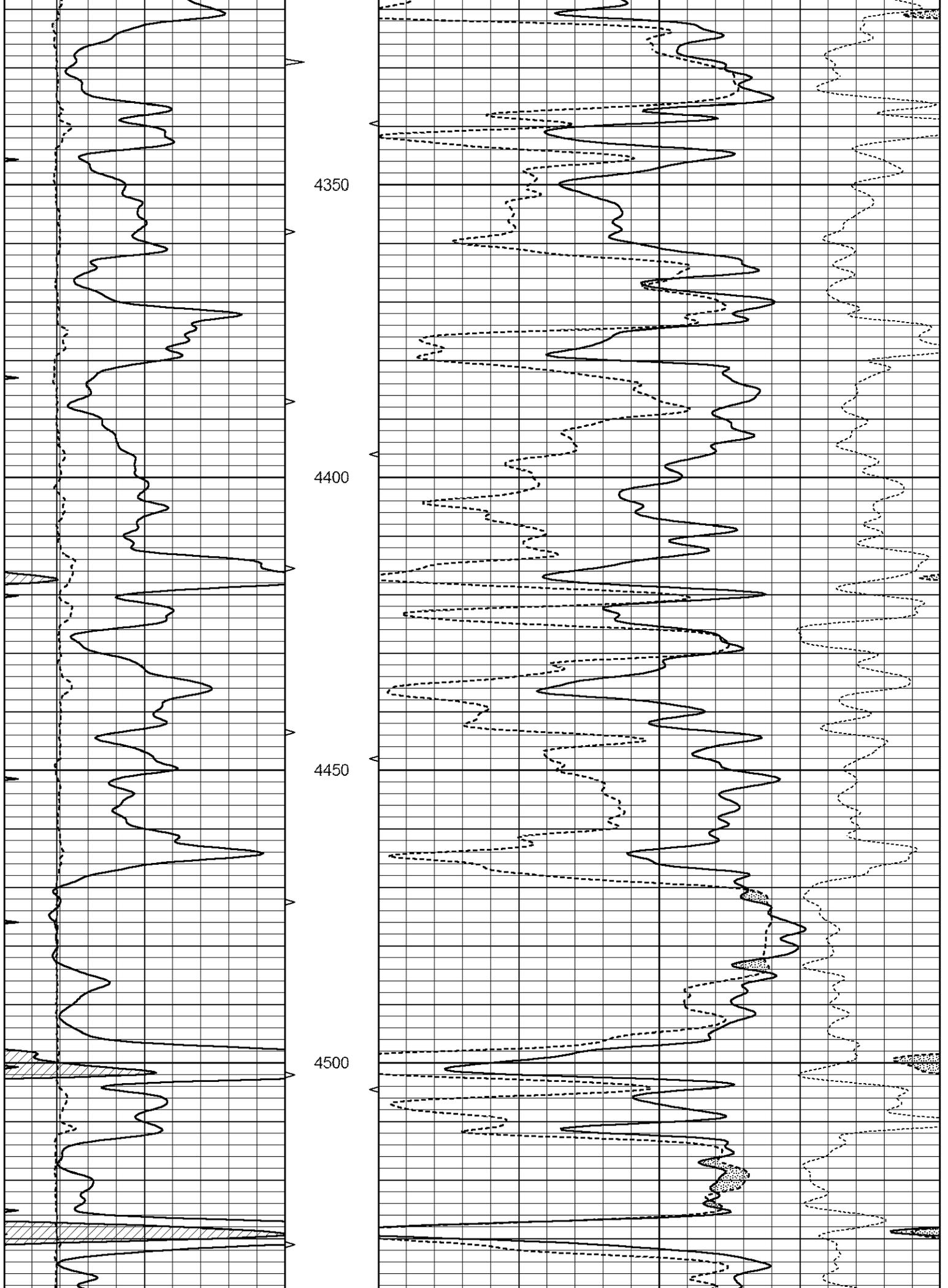
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 Dataset Pathname pass3DT
 Presentation Format _den_neu
 Dataset Creation Mon Aug 22 12:08:13 2022
 Charted by Depth in Feet scaled 1:240

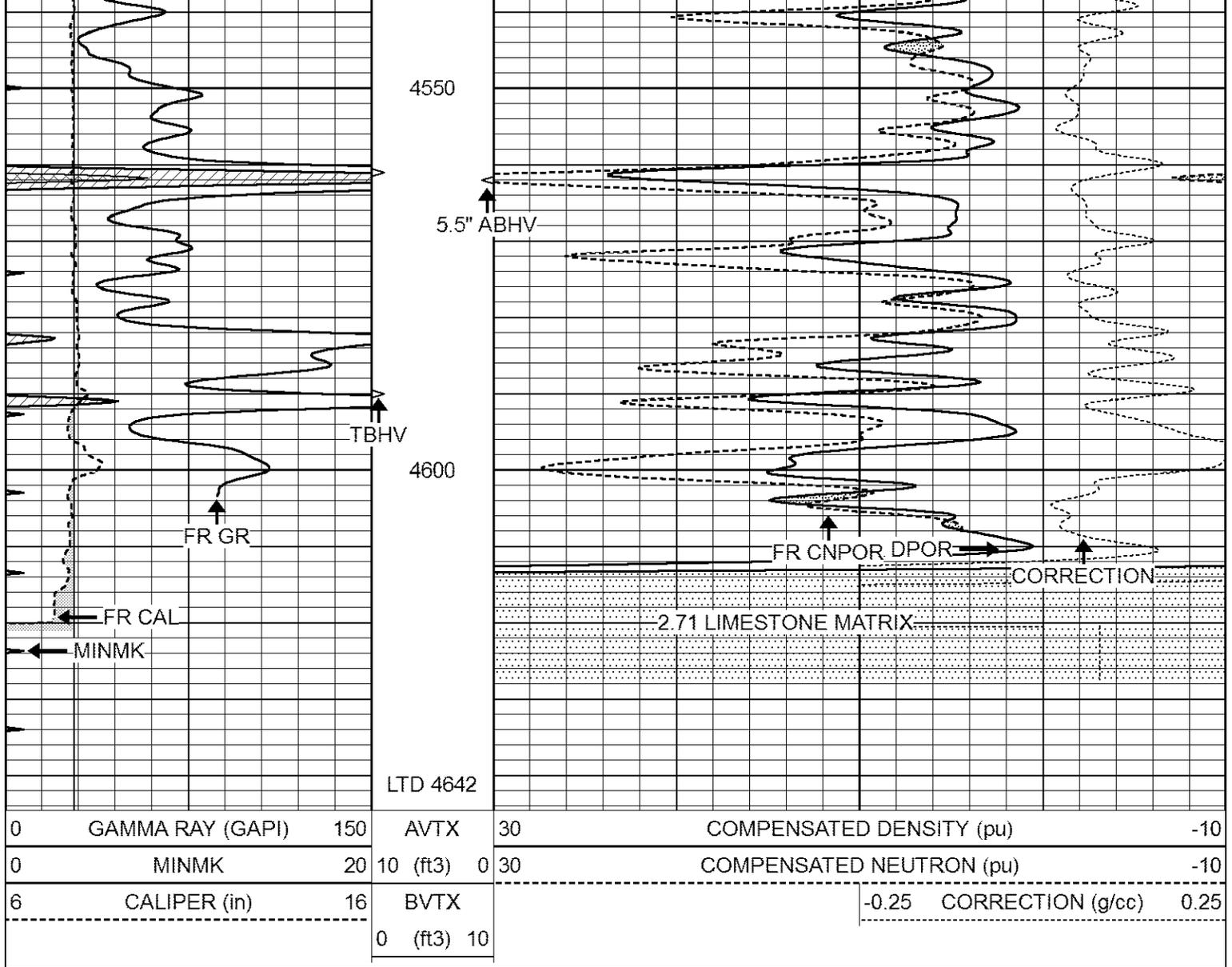
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			







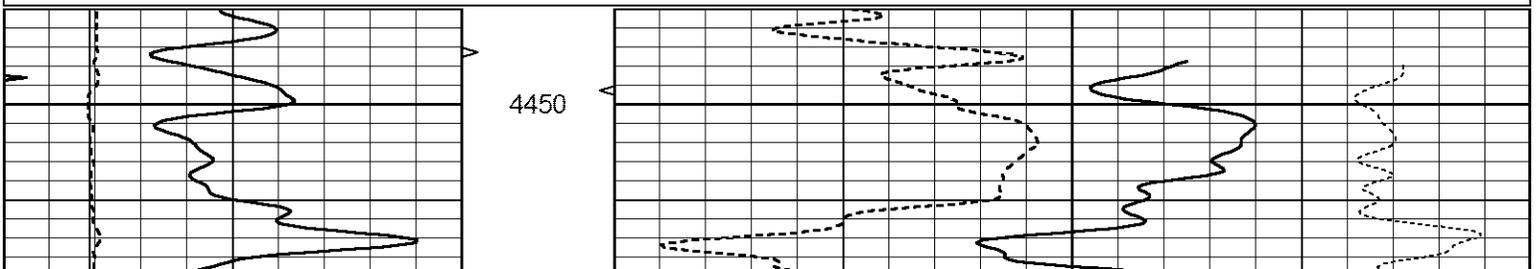


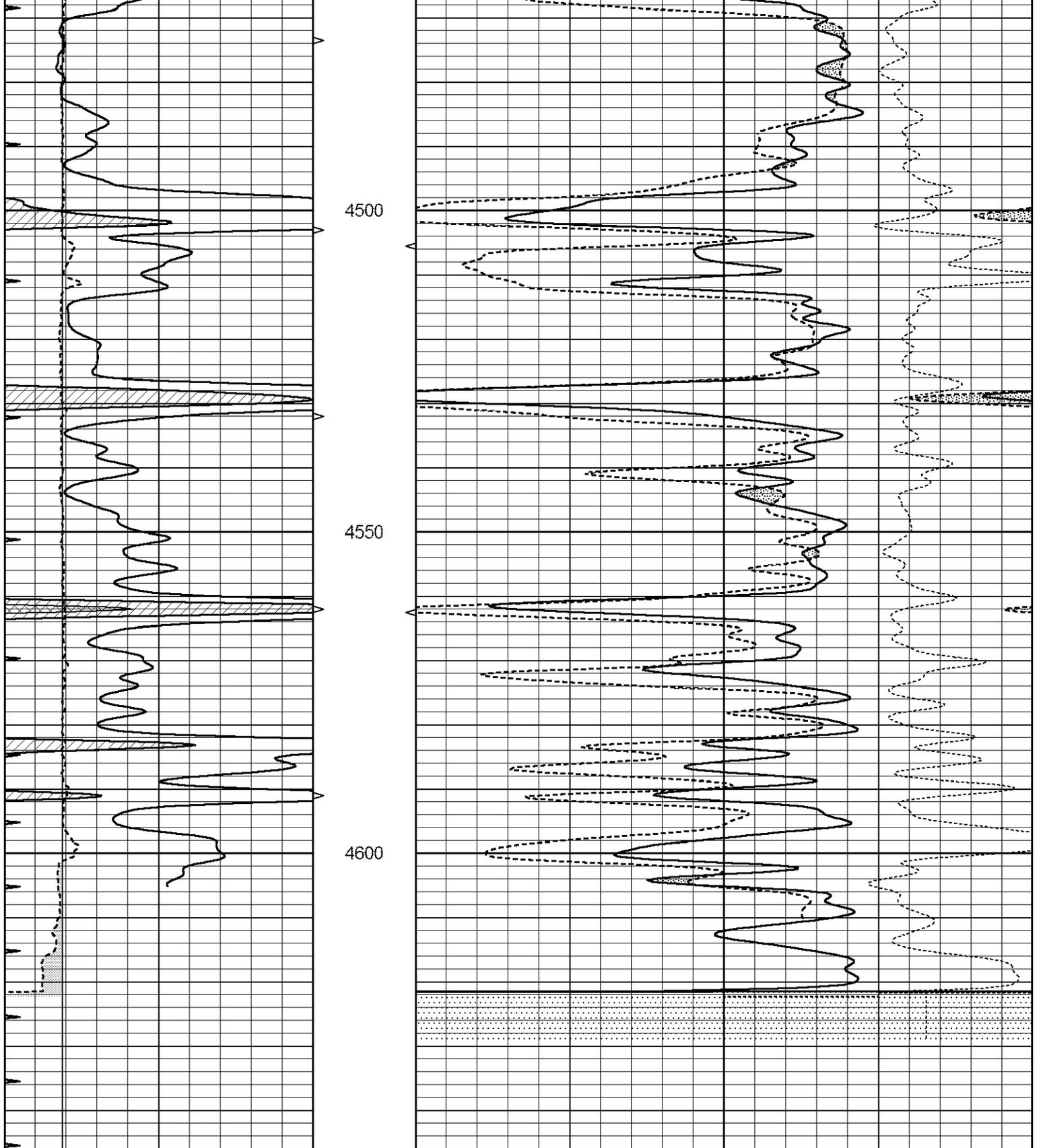


REPEAT SECTION

Database File 6775ddn.db
 Dataset Pathname pass2RT
 Presentation Format _den_neu
 Dataset Creation Mon Aug 22 12:13:44 2022
 Charted by Depth in Feet scaled 1:240

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





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

Calibration Report

Database File 6775ddn.db
 Dataset Pathname pass2RT
 Dataset Creation Mon Aug 22 12:13:44 2022

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Thu Jun 30 01:48:00 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	-3.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	-9.500
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	mmho/m	Zero	Cal	mmho/m	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	mmho/m	Zero	Cal	mmho/m	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: Wed Jul 20 12:36:34 2022

	Background	Aluminum	Magnesium		
Window 1	503.67	5439.20	23645.11	cps	
Window 2	40.11	1218.66	5702.60	cps	
Window 4	221.18	1240.69	5295.43	cps	
Window 5	542.56	7631.48	14305.13	cps	
Window 6	41.67	1209.53	2345.40	cps	
Window 8	256.91	2493.92	4591.85	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8302	SS Alpha:	: -0.7503	LS CPE:	: 1.1699
LS Beta:	: 122464.5983	SS Beta:	: 16307.0478	SS CPE:	: 1.6095

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: Wed Jul 20 12:36:34 2022

Results		Readings		References (in)		Gain	Offset
Low	High	Low	High				
11331.0	15645.5	8.0	14.0			0.0	-8.1

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

Calibrator Value:	1.0	CPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5500	GAPI/cps