

**COMPENSATED
DENSITY/NEUTRON
LOG**

Company RL INVESTMENT, LLC.
Well PFEIFER #8
Field STRUSS NORTHWEST
County GRAHAM
State KANSAS

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County GRAHAM State KANSAS

Location: API #: 15-065-24186-0000
2170' FNL & 640' FEL
SEC 36 TWP 10S RGE 25W
Permanent Datum GROUND LEVEL Elevation 2439
Log Measured From KELLY BUSHING 7' A.G.L
Drilling Measured From KELLY BUSHING
Other Services DILMEL
Elevation K.B. 2446
D.F. 2444
G.L. 2439

Date	6/4/20
Run Number	ONE
Depth Driller	4320
Depth Logger	4318
Bottom Logged Interval	4294
Top Log Interval	3450
Casing Driller	8 5/8" @ 221'
Casing Logger	220
Bit Size	7 7/8
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	9.3/51
pH / Fluid Loss	10.0/8.4
Source of Sample	FLOWLINE
Rm @ Meas. Temp	0.85 @ 93F
Rmf @ Meas. Temp	0.63 @ 93F
Rmc @ Meas. Temp	1.02 @ 93F
Source of Rmf / Rmc	MEASUREMENT
Rm @ BHT	0.66 @ 119F
Time Circulation Stopped	2 HOURS
Time Logger on Bottom	////
Maximum Recorded Temperature	119F
Equipment Number	3802
Location	HAYS, KANSAS
Recorded By	JASON CAPPELLUCCI
Witnessed By	RICHARD BELL

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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

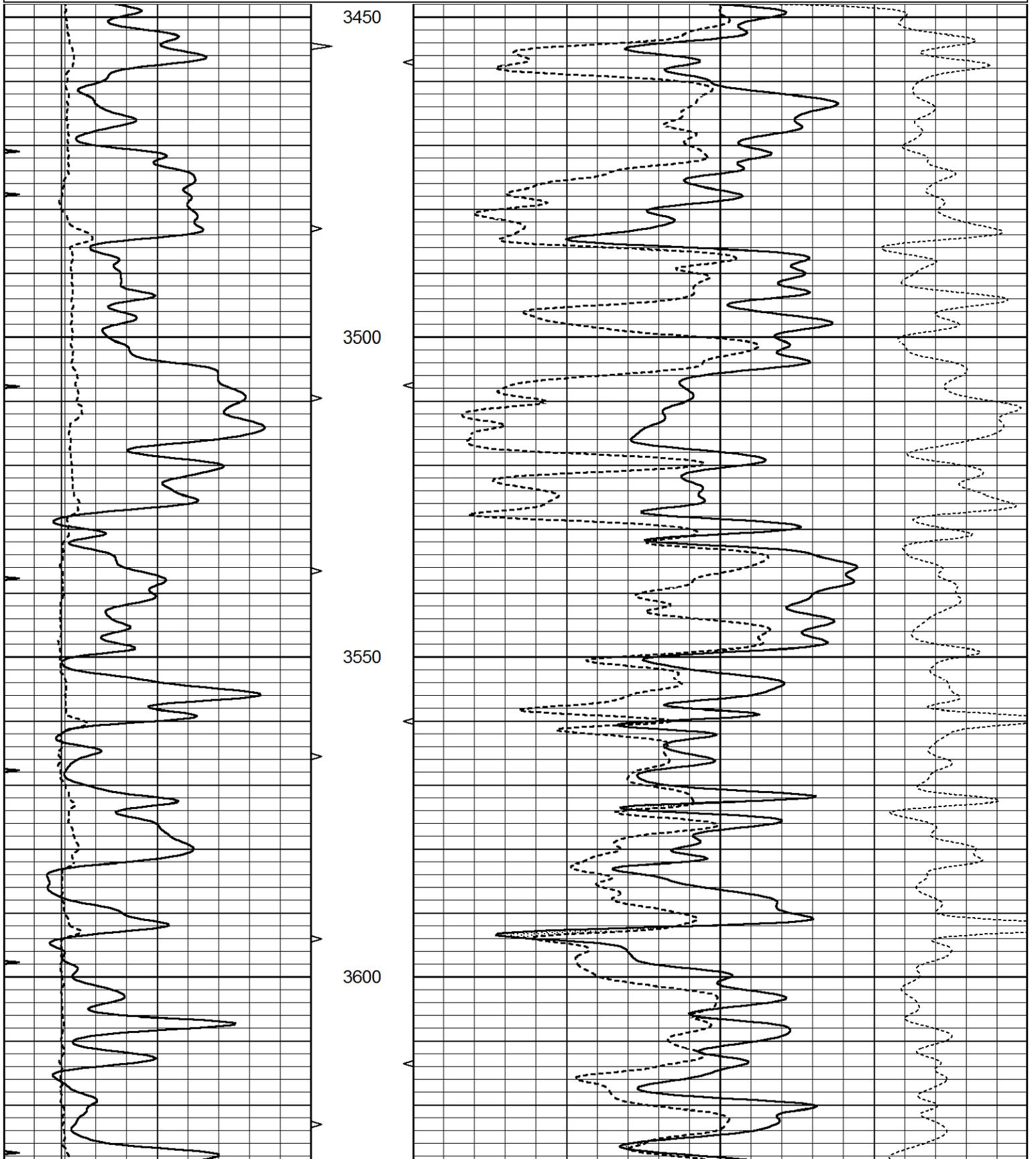
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
WAKEENEY, KS. - NORTH TO GRAHAM COUNTY RD. C - 9 WEST TO RD. 170
1 SOUTH TO RD. B - 3/4 WEST - SOUTH INTO

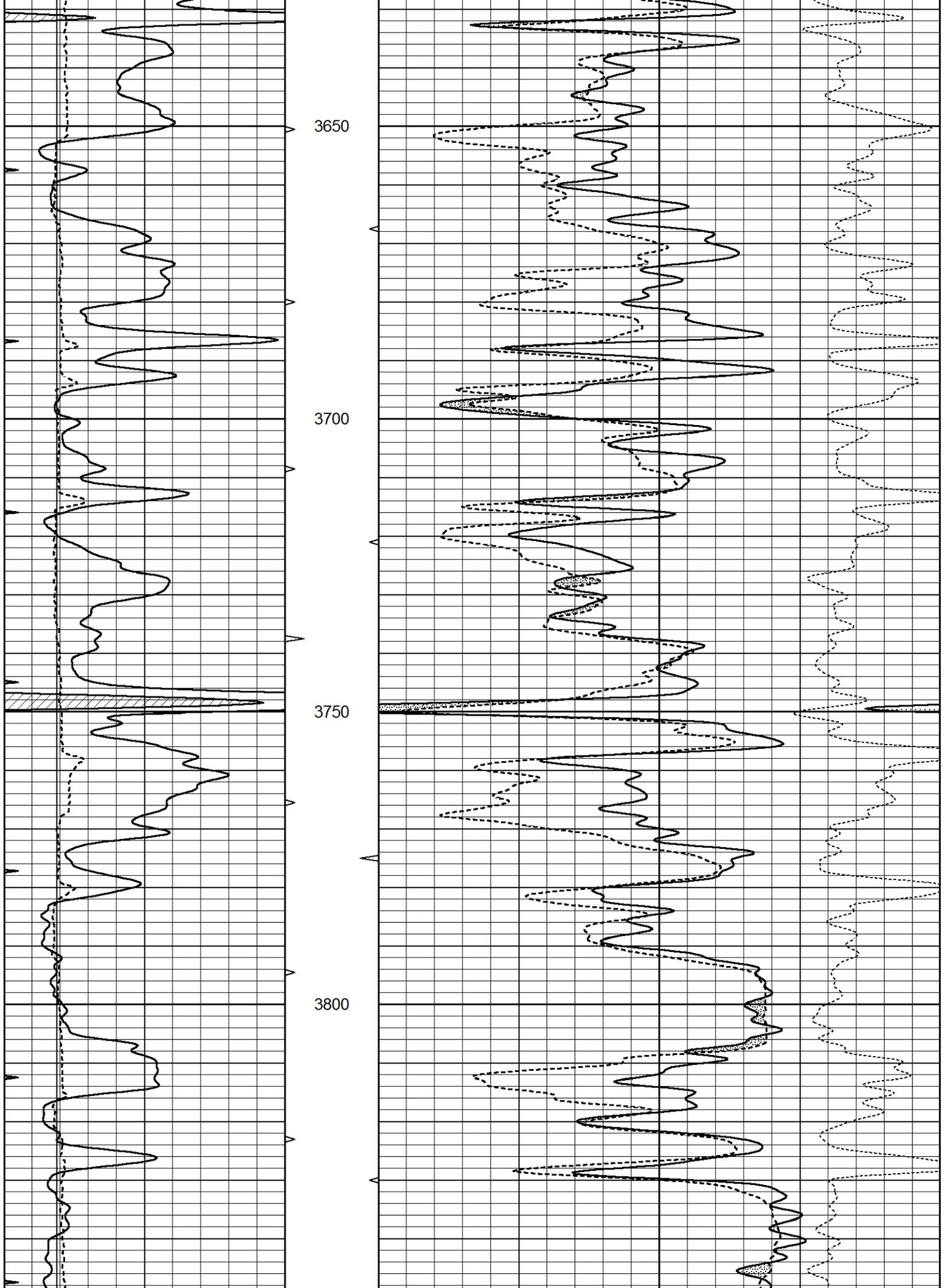


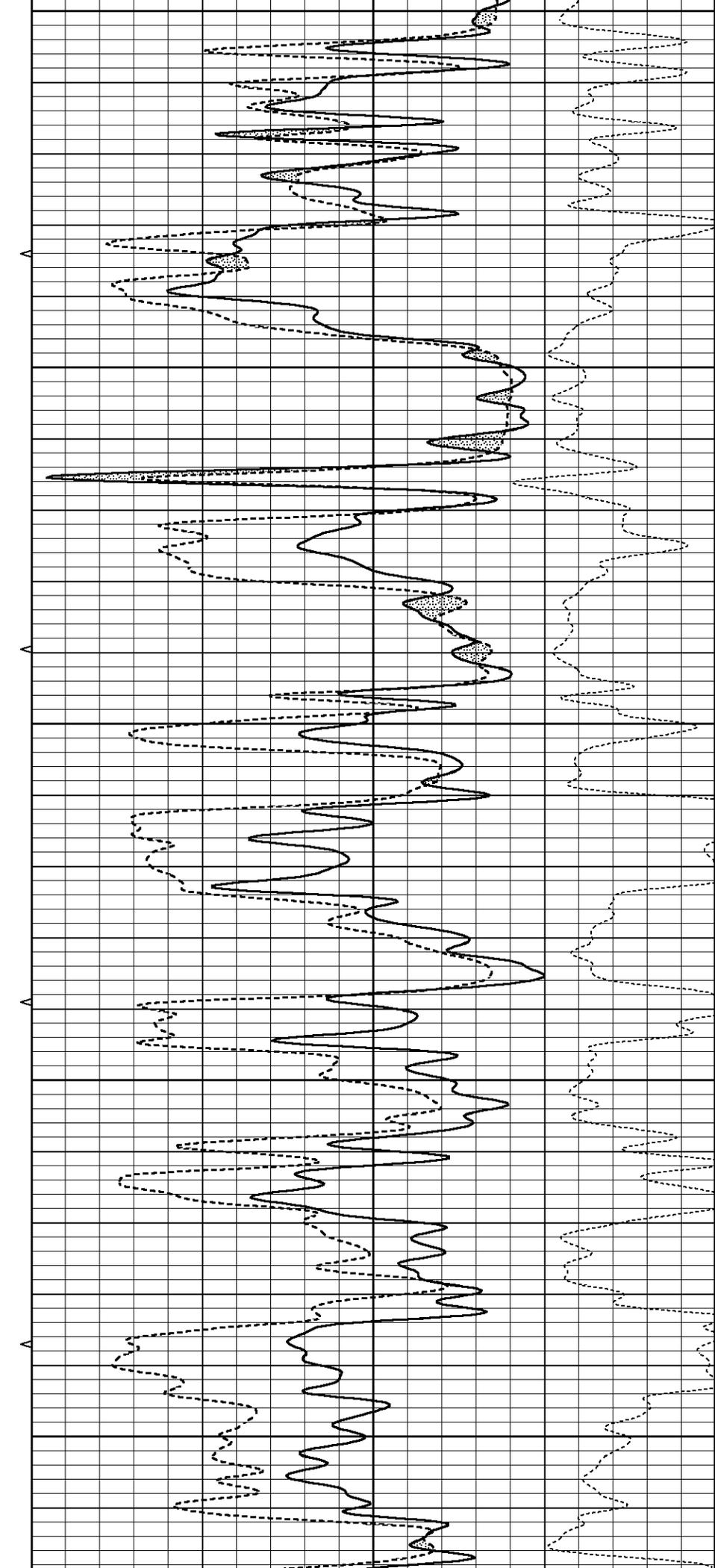
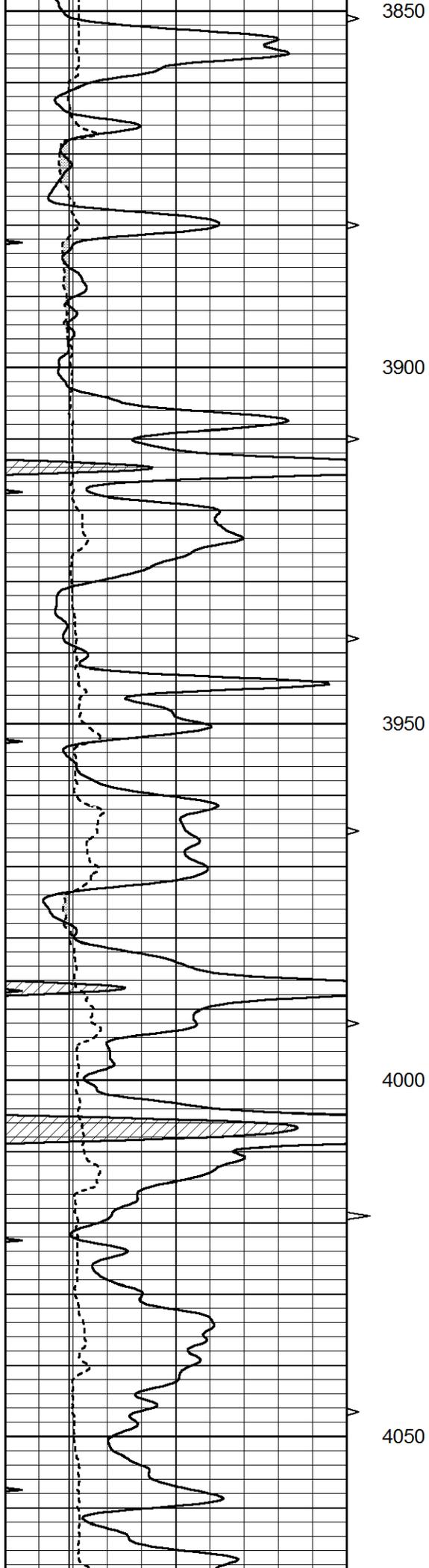
MAIN SECTION

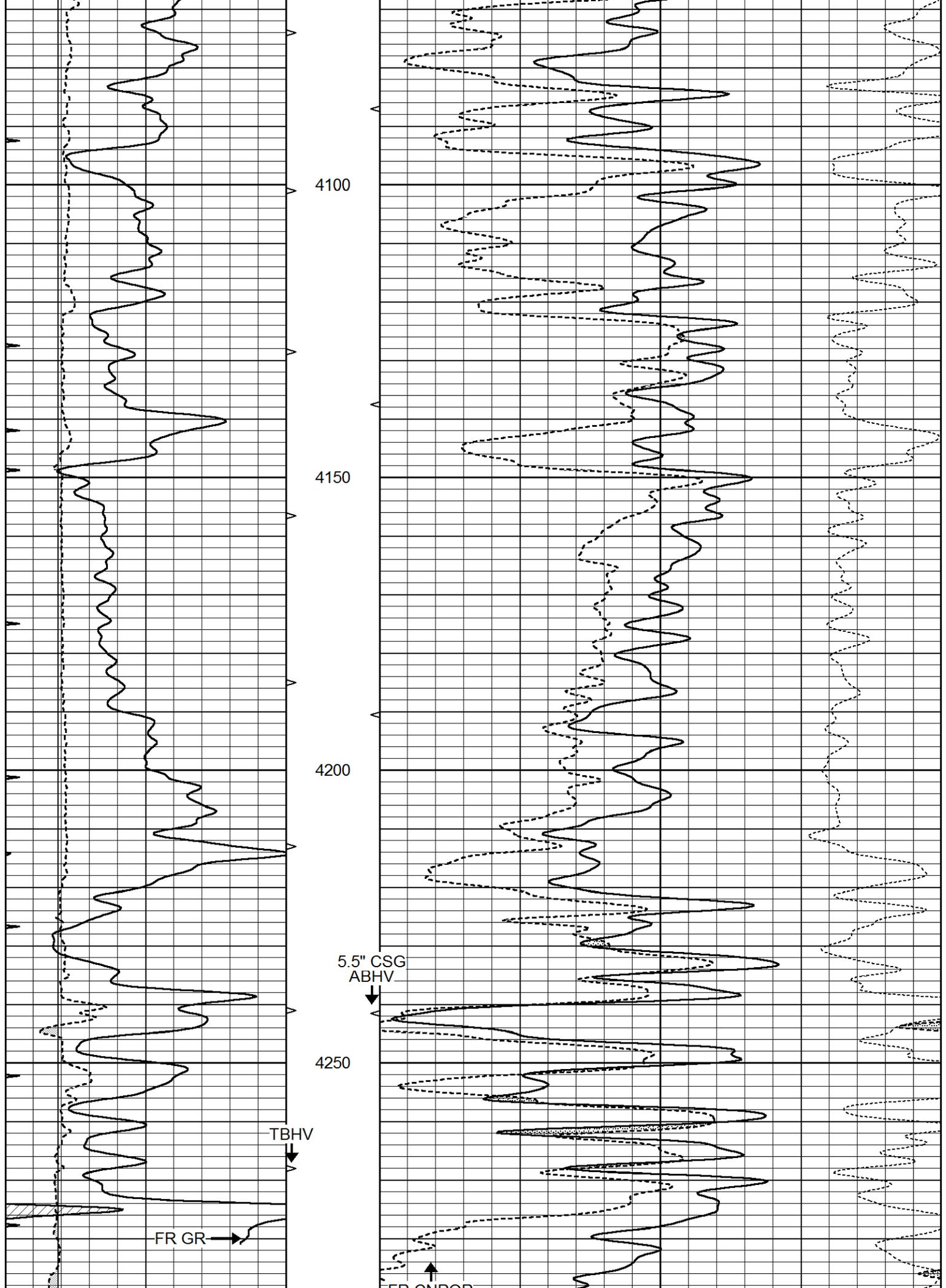
Database File 4737ddn.db
 Dataset Pathname pass3.1
 Presentation Format _den_neu
 Dataset Creation Thu Jun 04 22:43:33 2020
 Charted by Depth in Feet scaled 1:240

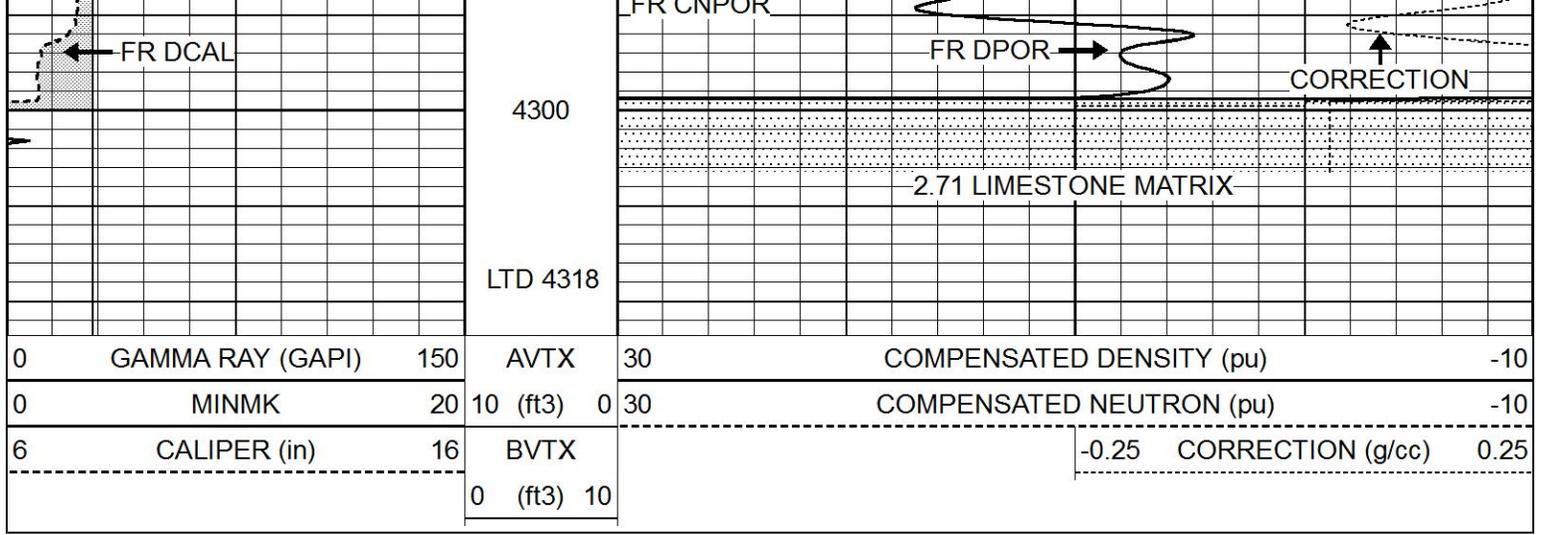
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			







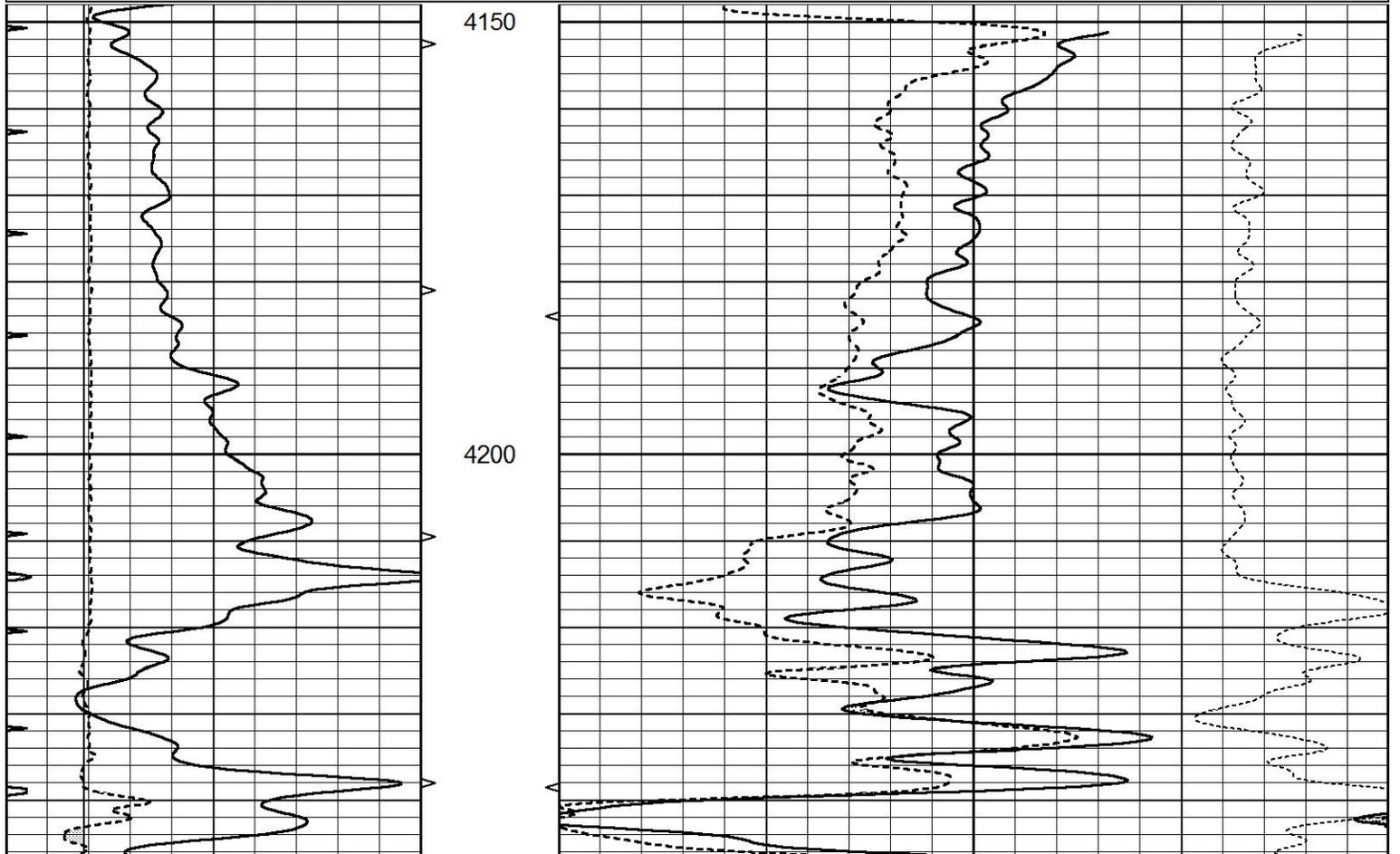


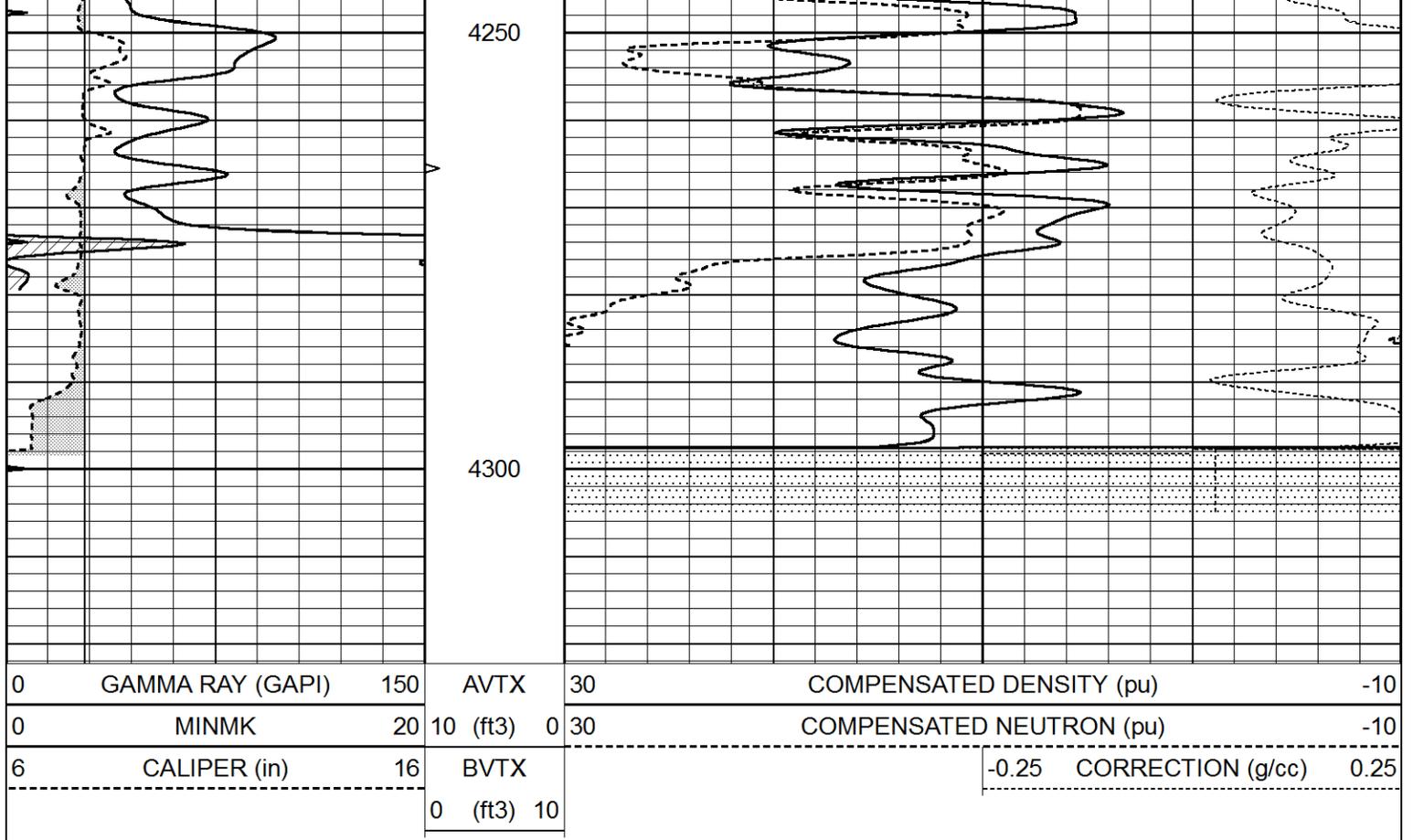


REPEAT SECTION

Database File 4737ddn.db
 Dataset Pathname pass2.1
 Presentation Format _den_neu
 Dataset Creation Thu Jun 04 22:46:15 2020
 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			





Calibration Report

Database File 4737ddn.db
 Dataset Pathname pass2.1
 Dataset Creation Thu Jun 04 22:46:15 2020

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Tue Feb 19 11:44:18 2019
 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	618.595	-5.524
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	632.856	1.197
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		
		-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: 140703
 Model: V4_10P
 Source Number: 74GBq-19

Master Calibration

Performed: Thu May 21 10:43:15 2020

	Background	Aluminum	Magnesium		
Window 1	531.08	5459.71	23833.72	cps	
Window 2	42.08	1230.06	5814.64	cps	
Window 4	232.81	1236.34	5296.40	cps	
Window 5	564.62	8687.43	16546.07	cps	
Window 6	44.20	1453.03	2846.27	cps	
Window 8	270.67	2786.28	5209.33	cps	
Bulk Density	-	2.6020	1.6830	g/cc	
Pe	-	3.0000	2.5070	b/e	
LS Alpha:	: -1.8459	SS Alpha:	: -0.7701	LS CPE:	: 1.1427
LS Beta:	: 125609.8082	SS Beta:	: 19396.7594	SS CPE:	: 1.5007

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: Thu May 21 10:43:15 2020

Results	Readings		References (in)		Gain	Offset
	Low	High	Low	High		
	4564.4	7712.2	8.0	14.0	0.0	-1.1

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:	Tue Dec 10 10:02:55 2019	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4800	GAPI/cps