



**COMPENSATED
DENSITY/NEUTRON
LOG**

Company DOWNING-NELSON OIL COMPANY, INC.
Well VELMA "B" #2-14
Field COTTON EAST
County TREGO
State KANSAS

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County TREGO State KANSAS

Location: API #: 15-195-23149-0000
2000' FSL & 480' FEL
SW - NE - NE - SE
SEC 14 TWP 12S RGE 21W
Permanent Datum GROUND LEVEL Elevation 2302
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services DIL/MEL
Elevation K.B. 2310
D.F. 2308
G.L. 2302

Date	10/14/22		
Run Number	ONE		
Depth Driller	4085		
Depth Logger	4085		
Bottom Logged Interval	4061		
Top Log Interval	3250		
Casing Driller	8 5/8" @ 221		
Casing Logger	221		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 5.000 PPM	
Density / Viscosity	9.2/56		
pH / Fluid Loss	10.5/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.10 @ 80F		
Rmt @ Meas. Temp	.825 @ 80F		
Rmc @ Meas. Temp	1.32 @ 80F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.752 @ 117F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	7:30 A.M.		
Maximum Recorded Temperature	117F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	COLE ROBBEN		
Witnessed By	MARC DOWNING		

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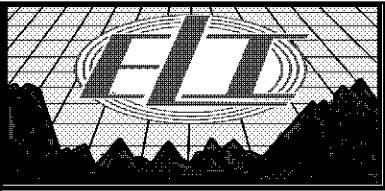
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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:

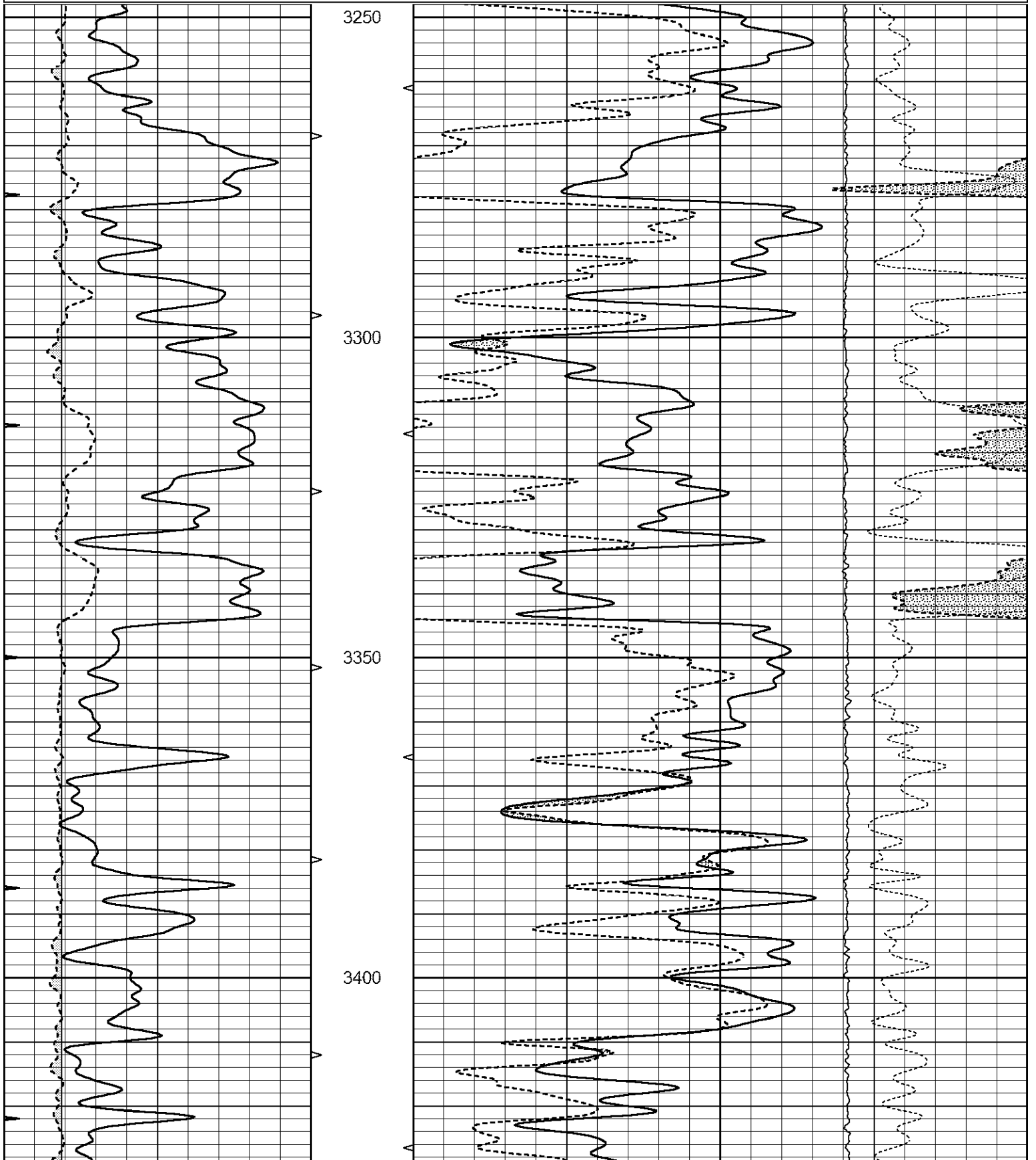
NORTH OF ELLIS, KANSAS TO CURVE, WEST AT CURVE TO 400 AVENUE, NORTH 1.5 MILES,
WEST INTO

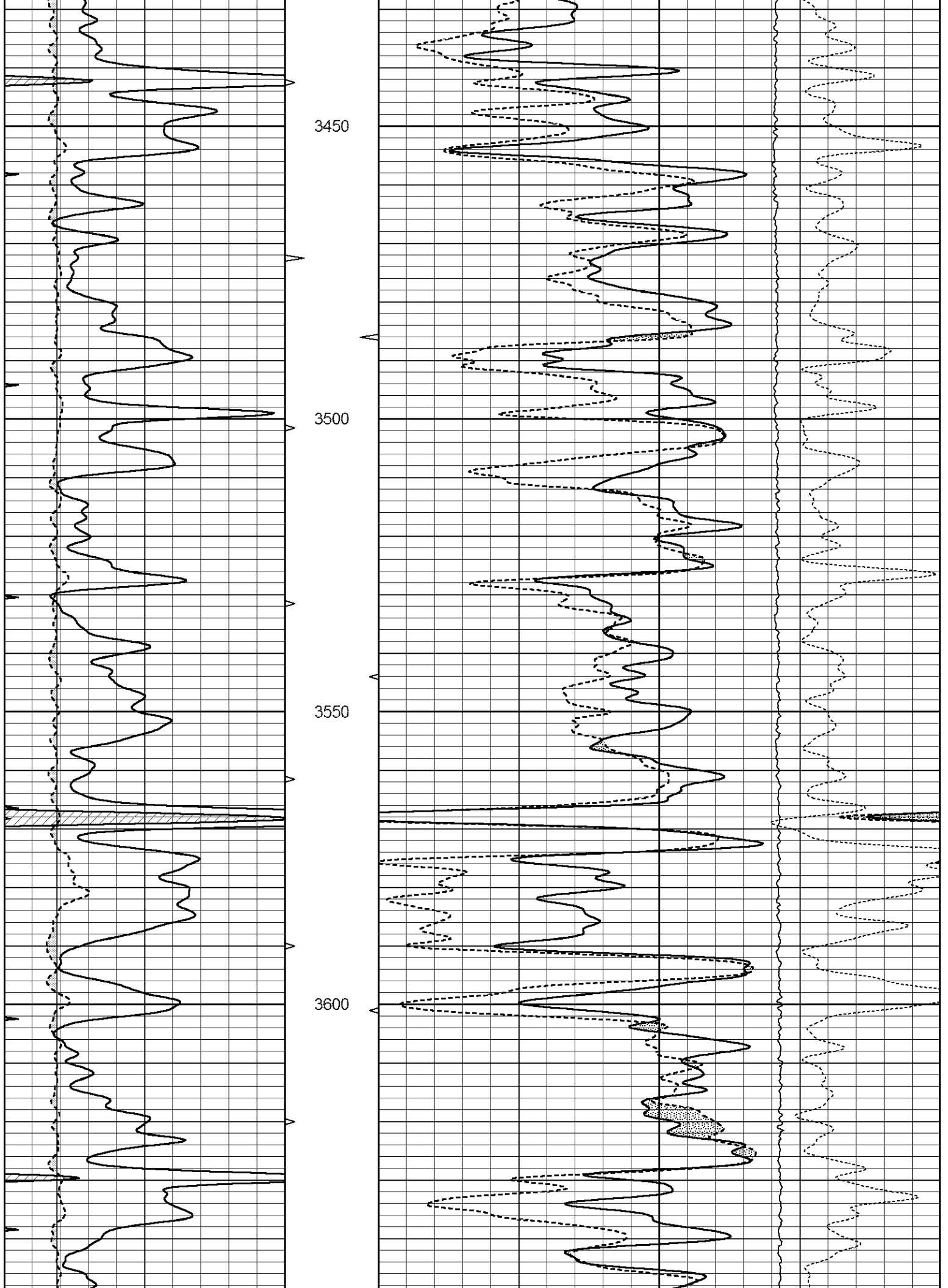


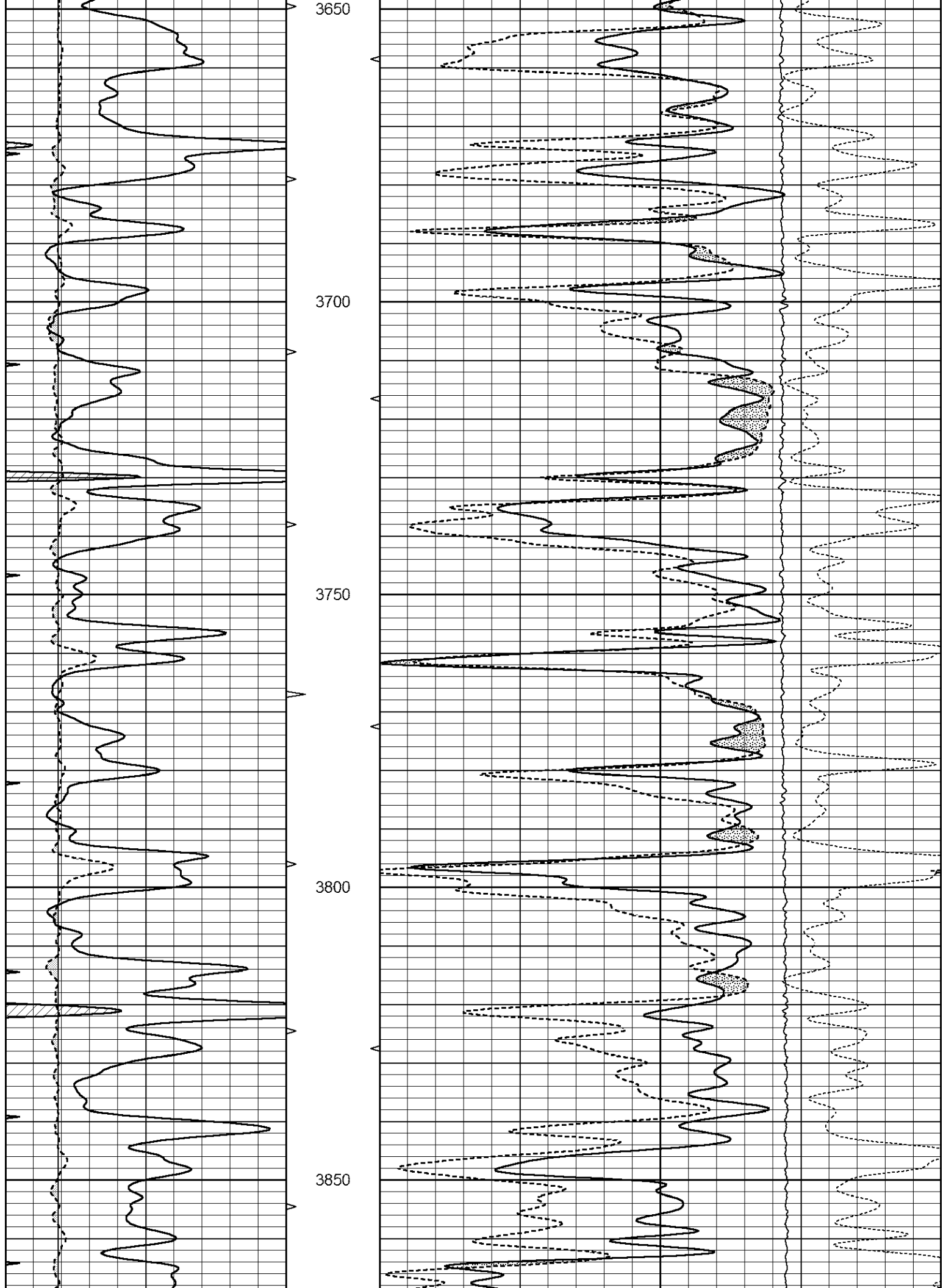
MAIN SECTION

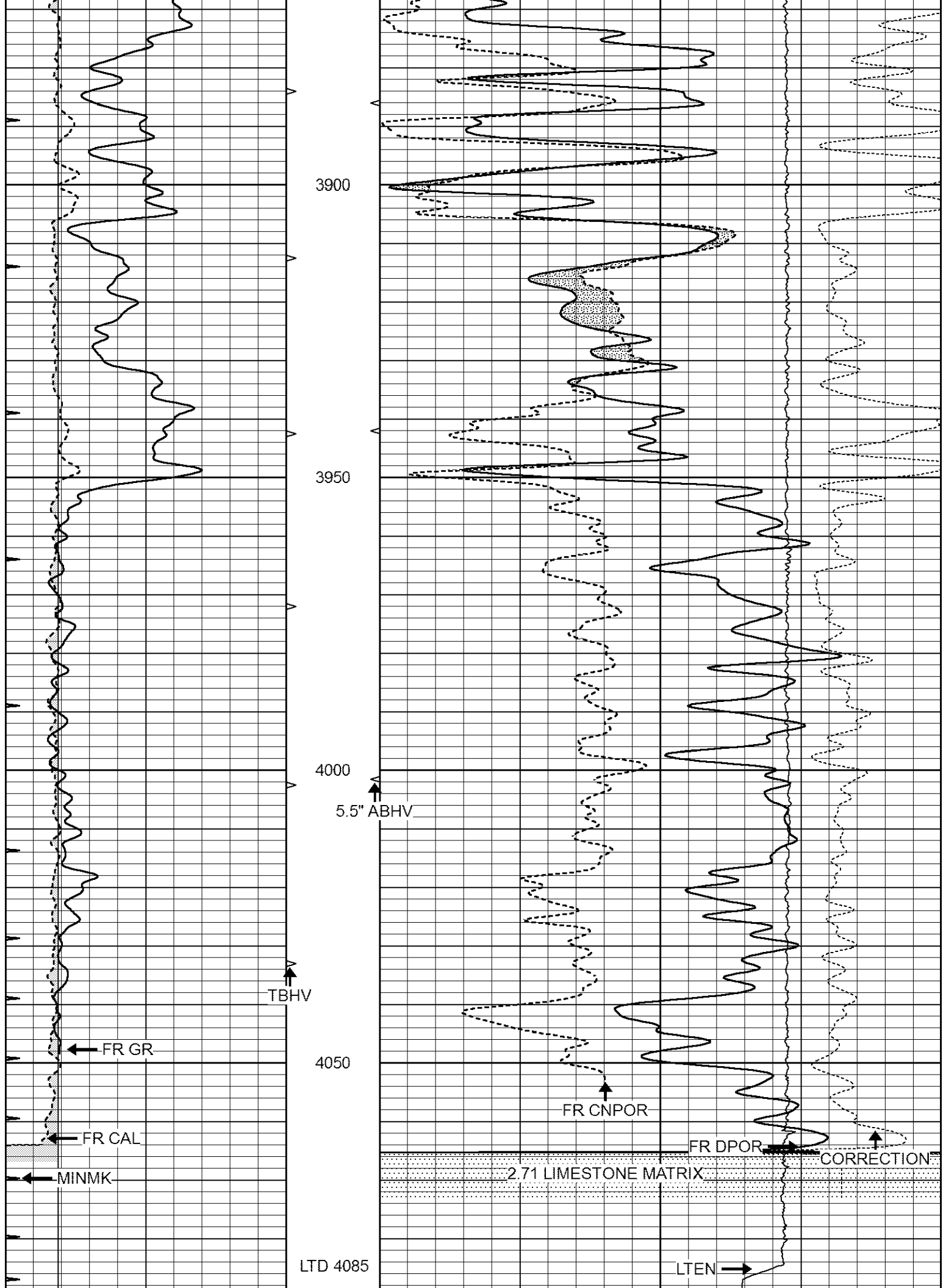
Database File 7233ddn.db
 Dataset Pathname pass3DTLL
 Presentation Format _den_neu
 Dataset Creation Fri Oct 14 08:40:00 2022
 Charted by Depth in Feet scaled 1:240

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 LTEN (lb)	5000

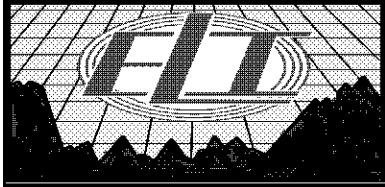








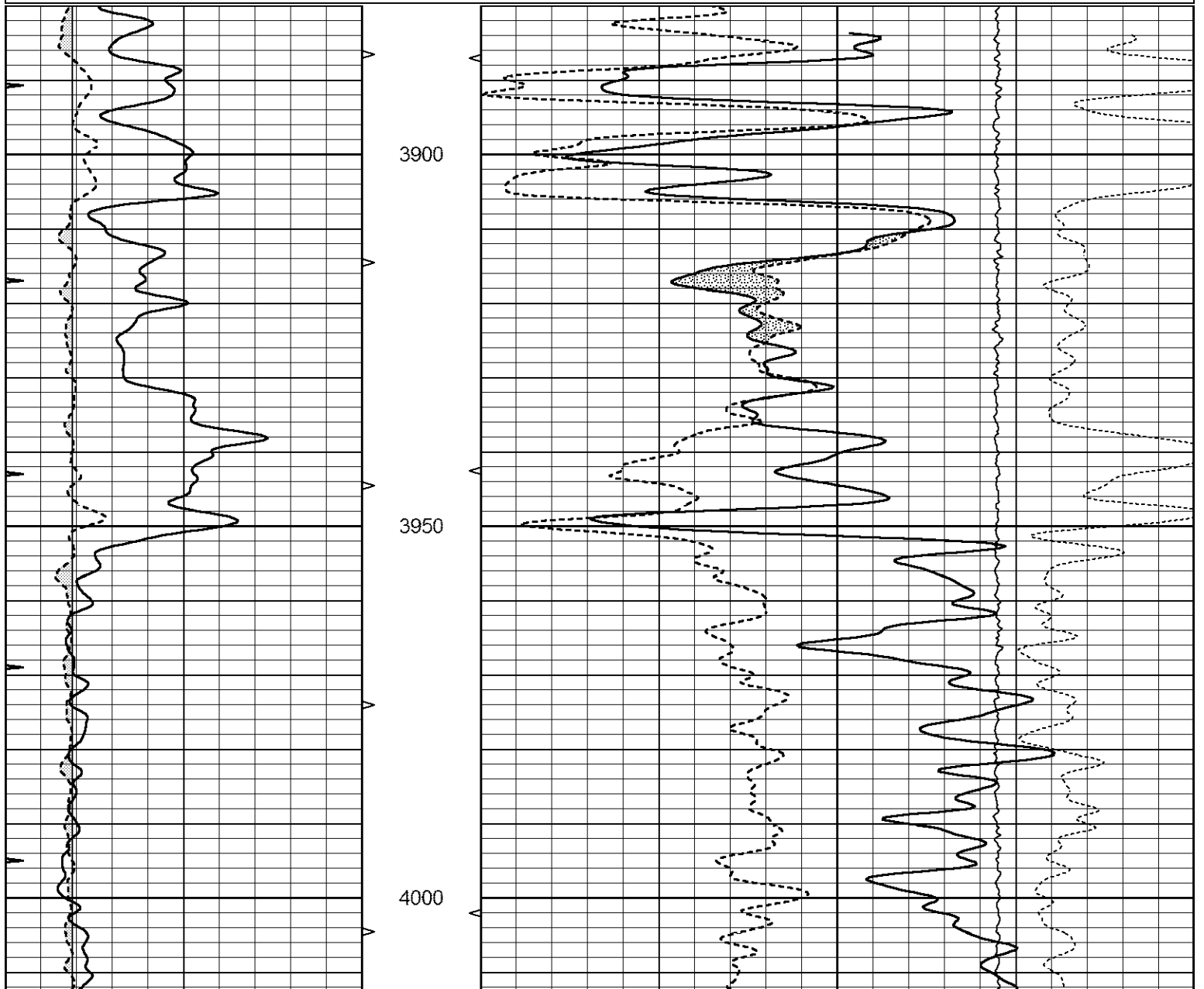
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0	MINMK	20	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
6	CALIPER (in)	16	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10		0 LTEN (lb)	5000

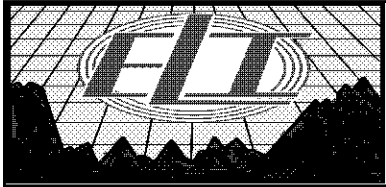
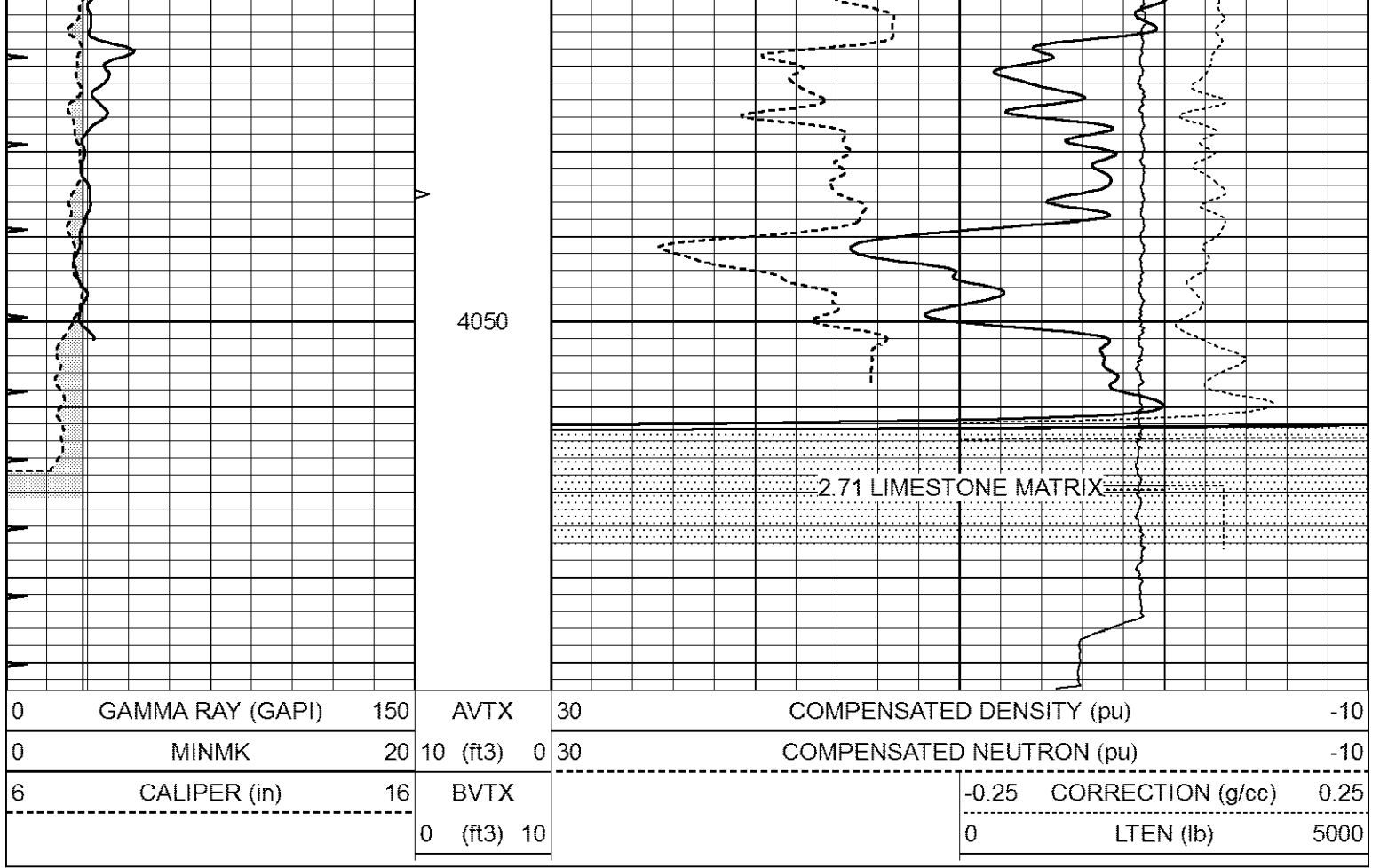


2.71 LIMESTONE REPEAT

Database File 7233ddn.db
 Dataset Pathname pass2DLR
 Presentation Format _den_neu
 Dataset Creation Fri Oct 14 08:37:06 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 LTEN (lb)	5000

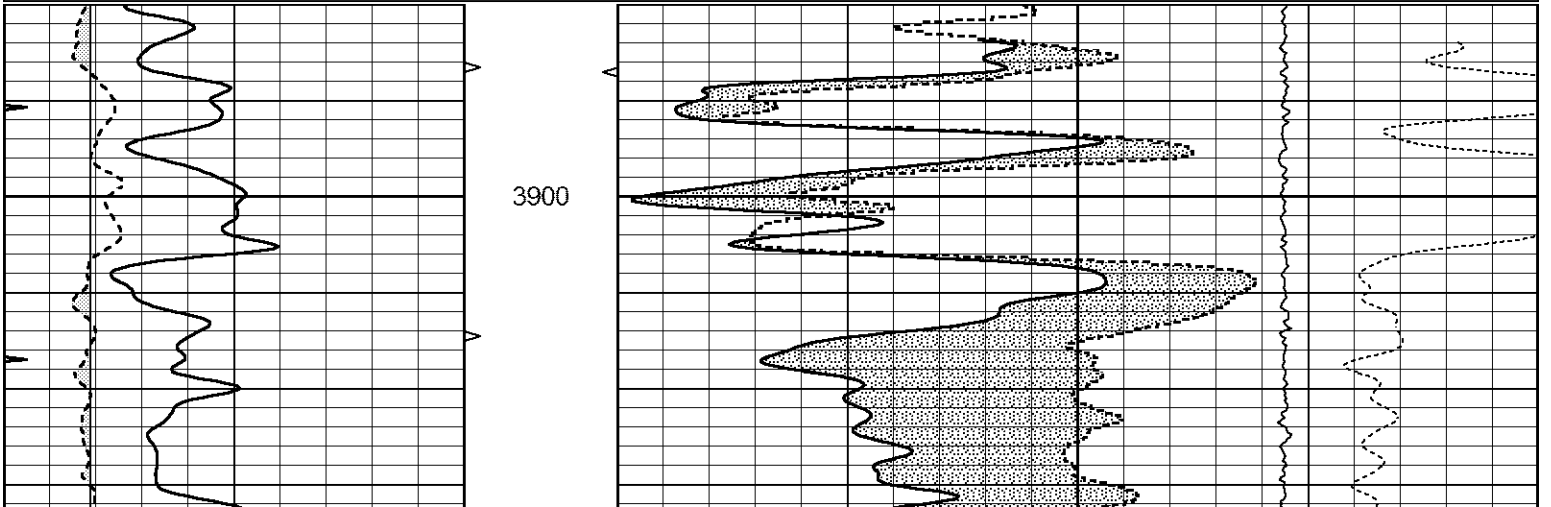


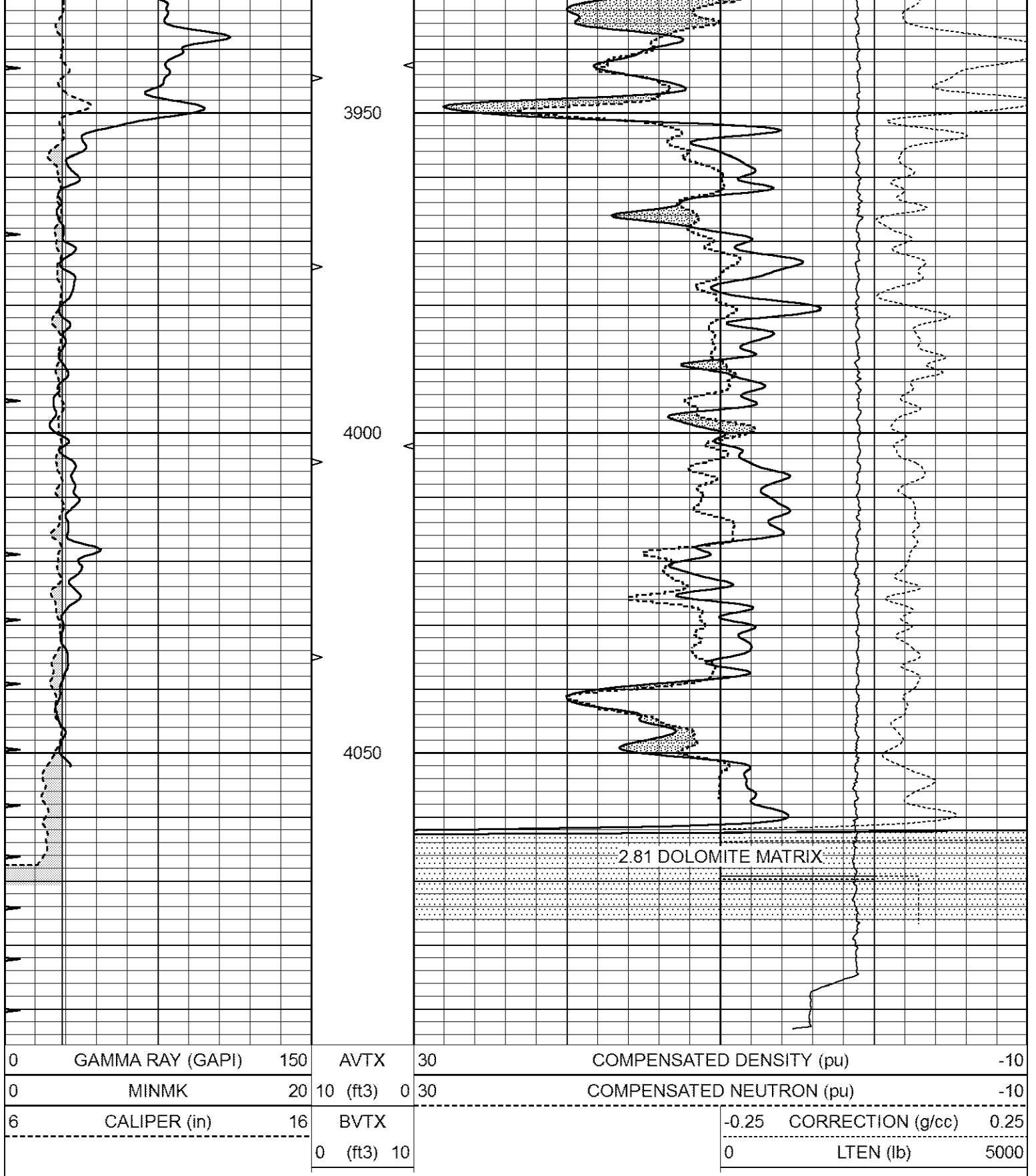


2.81 DOLOMITE REPEAT

Database File 7233ddn.db
 Dataset Pathname pass2LSR
 Presentation Format _den_neu
 Dataset Creation Fri Oct 14 08:30:37 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	LTEN (lb)	5000





Calibration Report

Database File 7233ddn.db
 Dataset Pathname pass3DTLL
 Dataset Creation Fri Oct 14 08:40:00 2022

Dual Induction Calibration Report

Serial-Model: FW1410-55-Probe
 Surface Cal Performed: Thu Jun 30 01:48:00 2022

Surface Calibration								
Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	1.000	400.000	mmho/m	780.000	-3.000
Medium	-0.000	0.731	V	1.000	464.000	mmho/m	760.000	-10.500
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: 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 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		
15673.1	16120.1	8.0	14.0	0.0	-202.0

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: 0.5500 GAPI/cps

DATE: 11/11/2024

TIME: 10:30 AM

LOCATION: [REDACTED]

OFFICER: [REDACTED]

REPORT NO: [REDACTED]

STATUS: [REDACTED]

REMARKS: [REDACTED]

SIGNATURE: [REDACTED]

DATE: [REDACTED]

TIME: [REDACTED]

LOCATION: [REDACTED]

OFFICER: [REDACTED]

REPORT NO: [REDACTED]

STATUS: [REDACTED]

REMARKS: [REDACTED]

SIGNATURE: [REDACTED]

DATE: [REDACTED]

TIME: [REDACTED]