



COMPENSATED DENSITY/NEUTRON LOG

Company	AUDERE EST FACERE	Company	AUDERE EST FACERE
Well	MAIDEN VOYAGE #1	Well	MAIDEN VOYAGE #1
Field	NA	Field	NA
County	ROOKS	County	ROOKS
State	KANSAS	State	KANSAS
Location:	API # : 15-163-24417-0000 1840' FSL & 1810' FWL	Other Services DIL/MEL	
Permanent Datum	SEC 8 TWP 8S RGE 18W	Elevation	
Log Measured From	GROUND LEVEL Elevation 1984 KELLY BUSHING 8' A.G.L	K.B. 1982 D.F. 1980 G.L. 1984	
Drilling Measured From	KELLY BUSHING		
Date	1/6/21		
Run Number	ONE		
Depth Driller	3500		
Depth Logger	3498		
Bottom Logged Interval	3474		
Top Log Interval	2850		
Casing Driller	8 5/8" @ 215		
Casing Logger	215		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 900 PPM	
Density / Viscosity	9.1/60		
pH / Fluid Loss	11.0/5.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.50 @ 62F		
Rmf @ Meas. Temp	1.12 @ 62F		
Rmc @ Meas. Temp	1.80 @ 62F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	0.83 @ 112F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	112F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	SPENCER STAAB	DJ REBEL	

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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

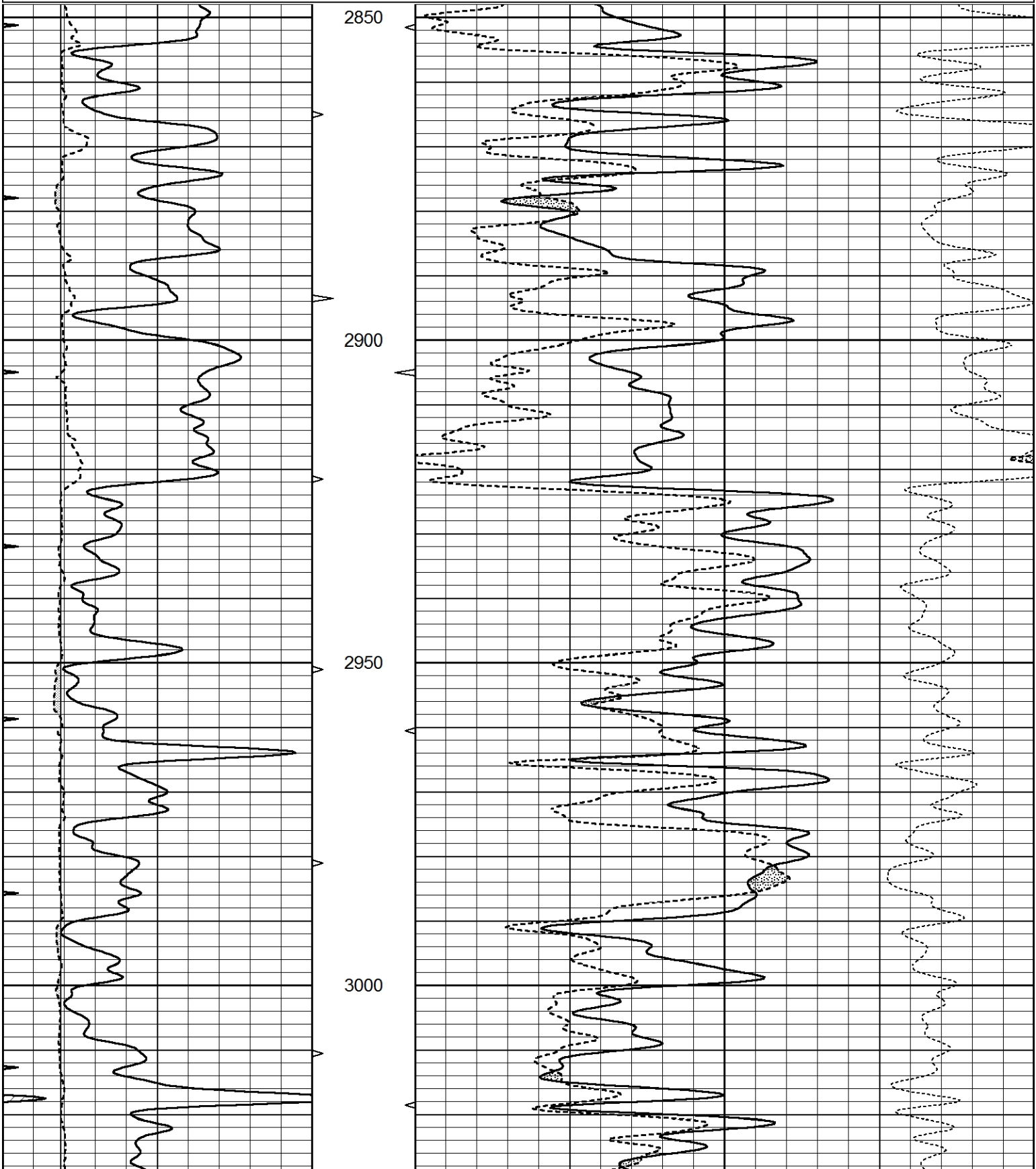
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
PLAINVILLE, KS., - WEST TO ROAD 14 - 14 NORTH - 1/4 EAST - NORTH INTO

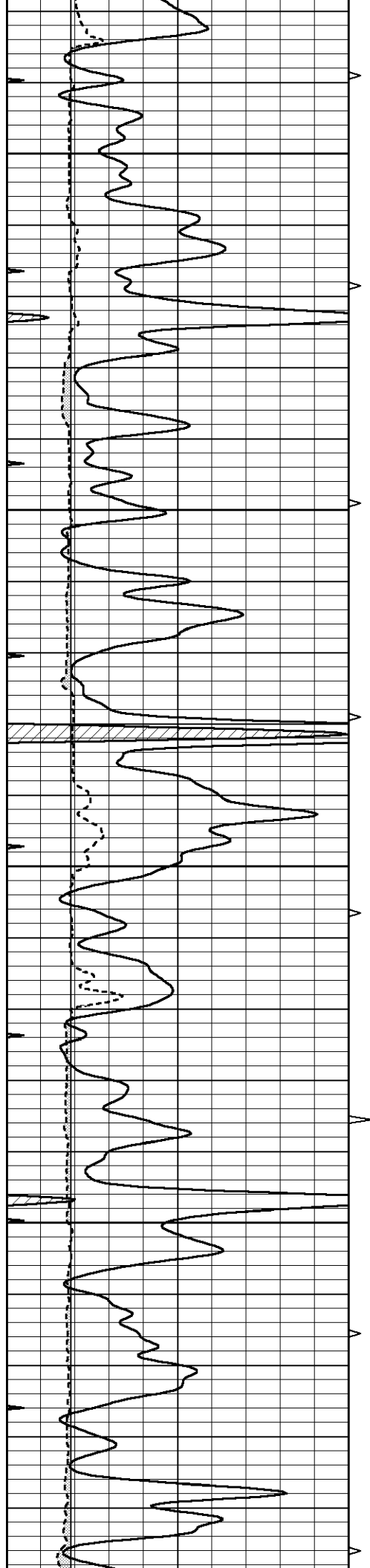


MAIN SECTION

Database File	5201ddn.db
Dataset Pathname	pass3.1
Presentation Format	_den_neu
Dataset Creation	Wed Jan 06 23:48:31 2021
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			



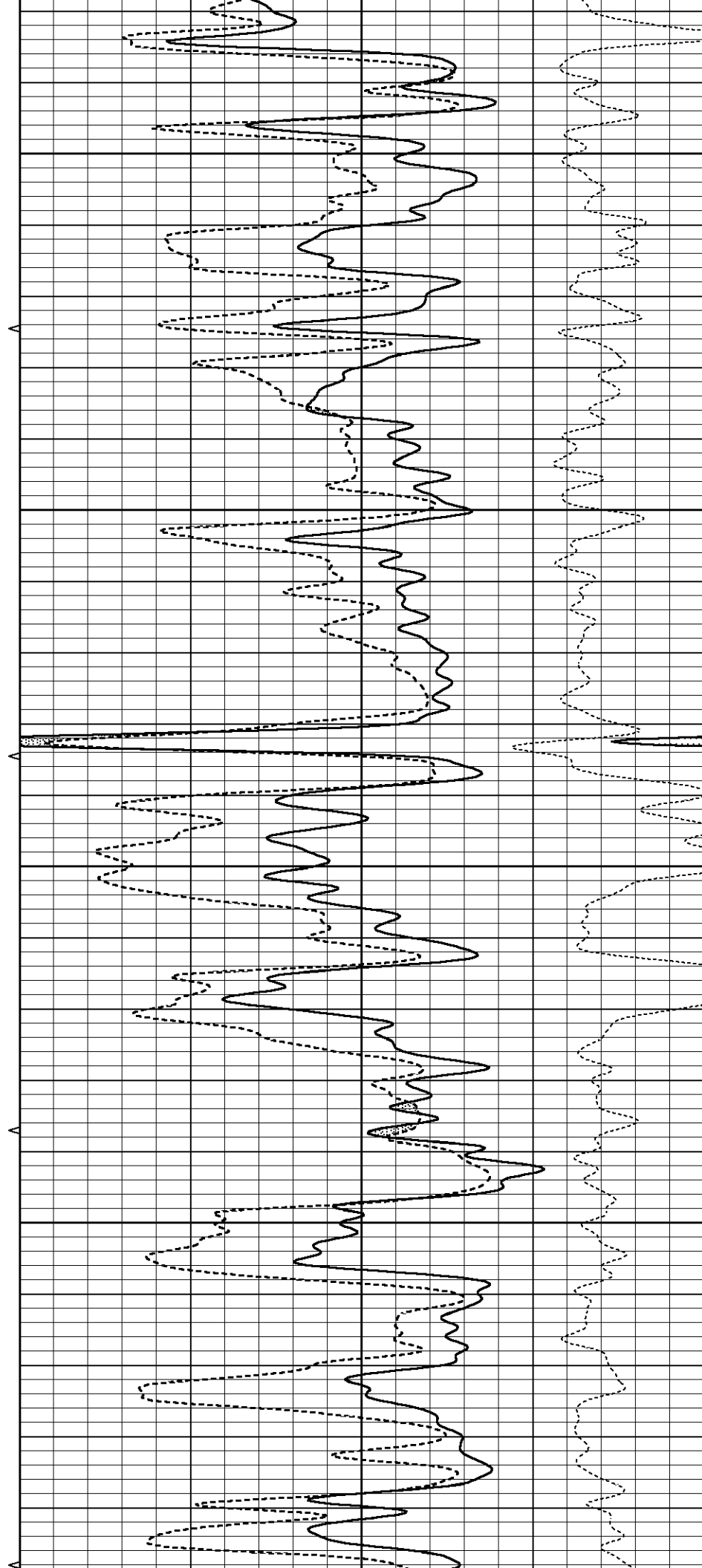


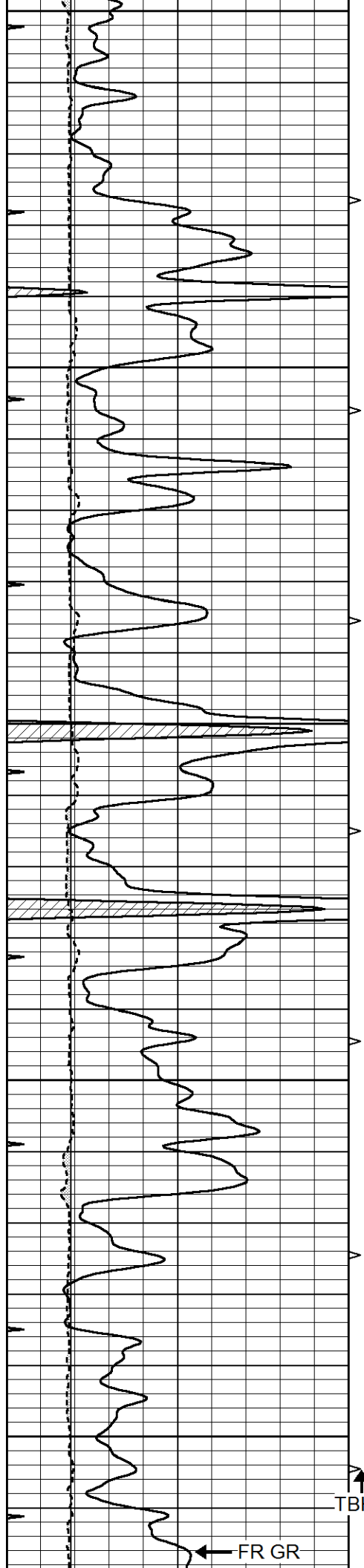
3050

3100

3150

3200





3250

3300

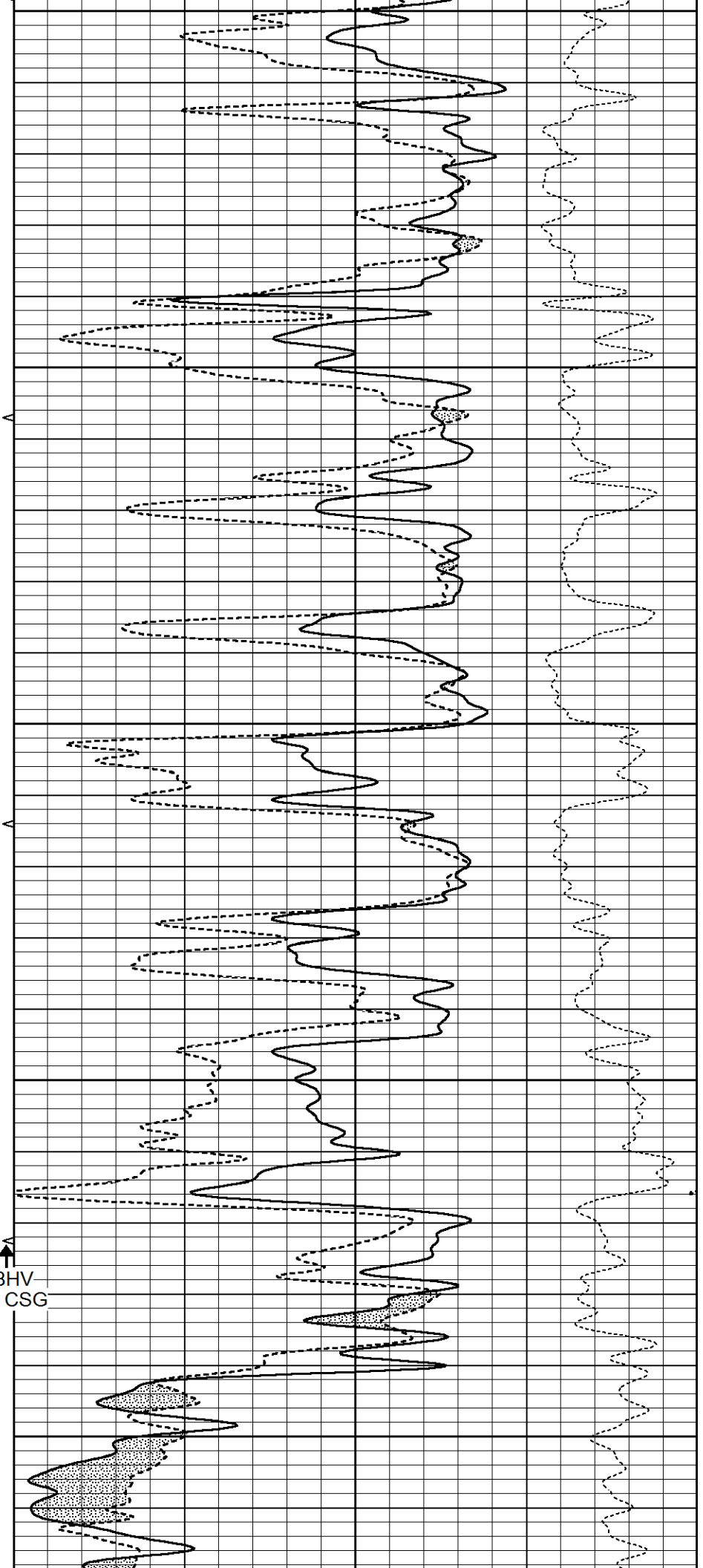
3350

3400

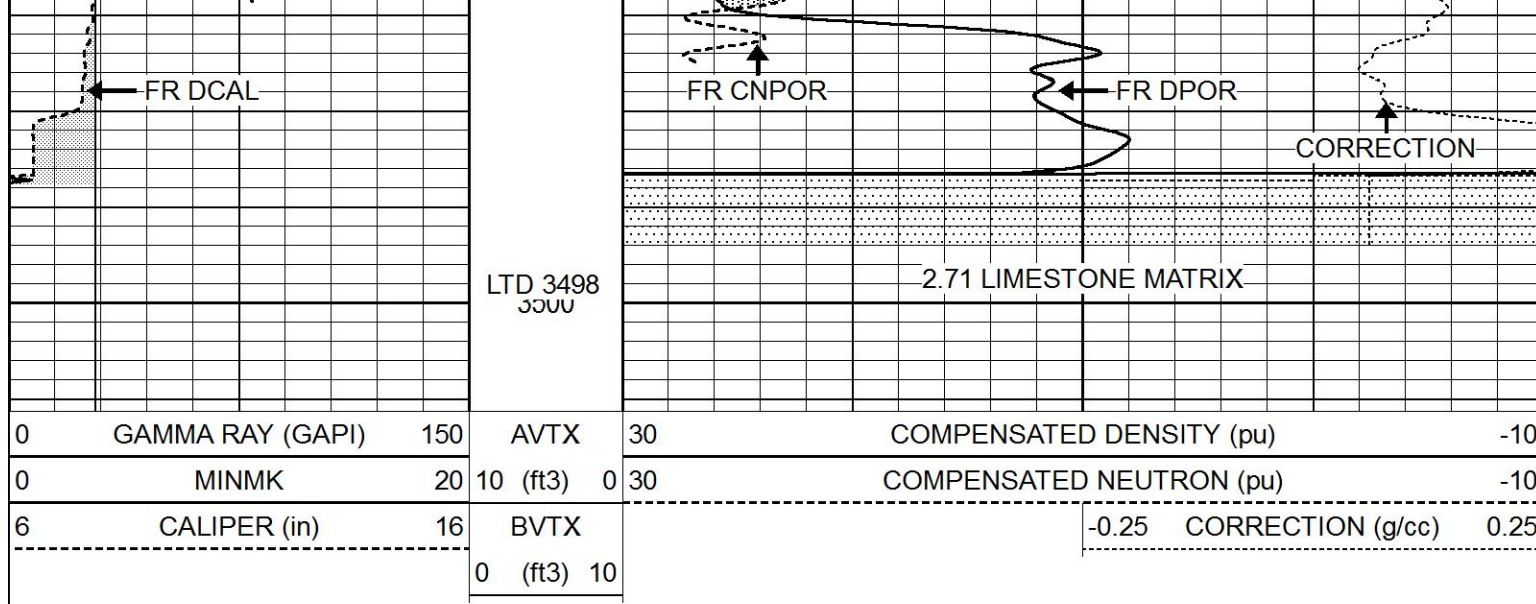
3450

FR GR

TBHV

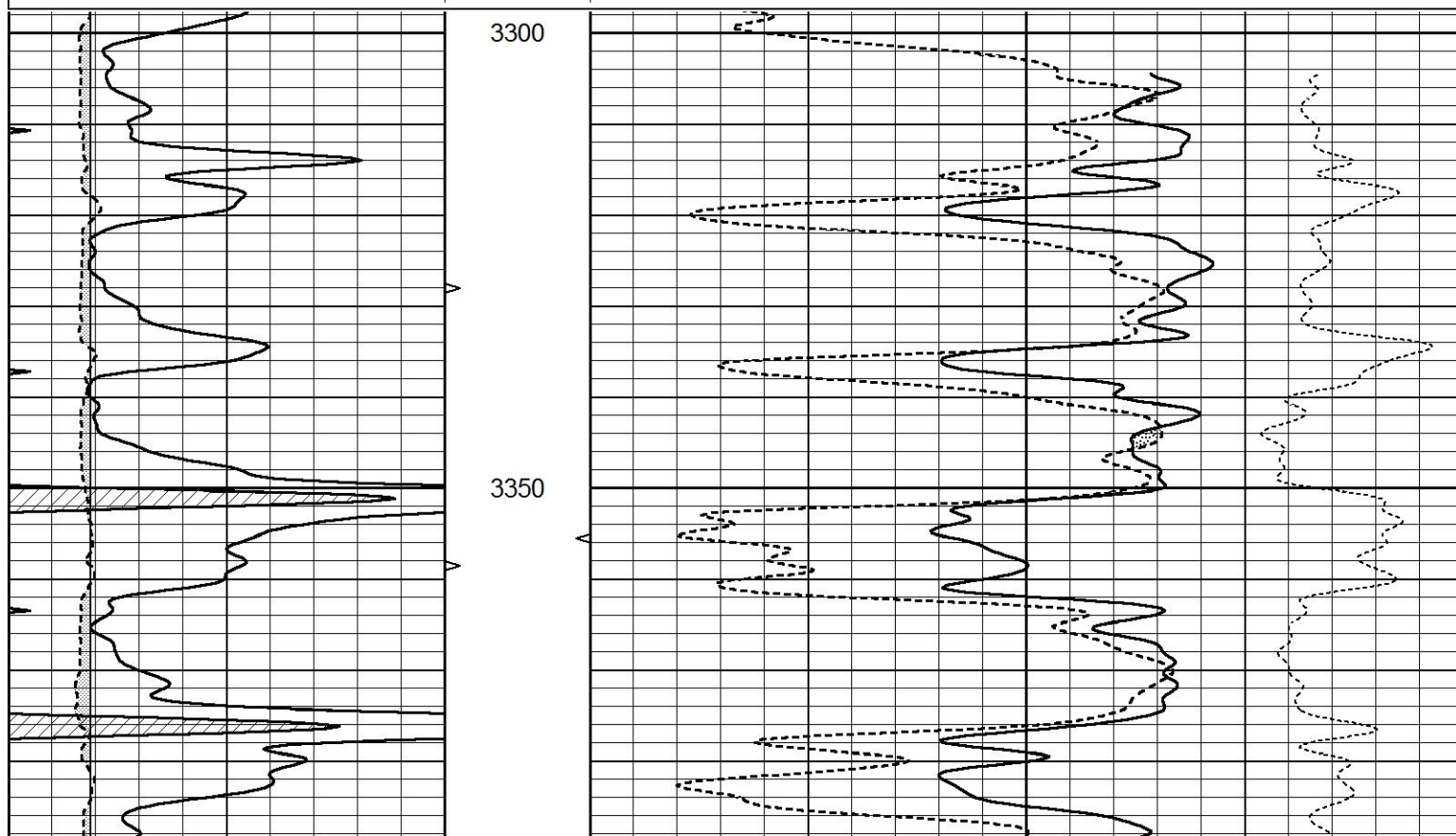
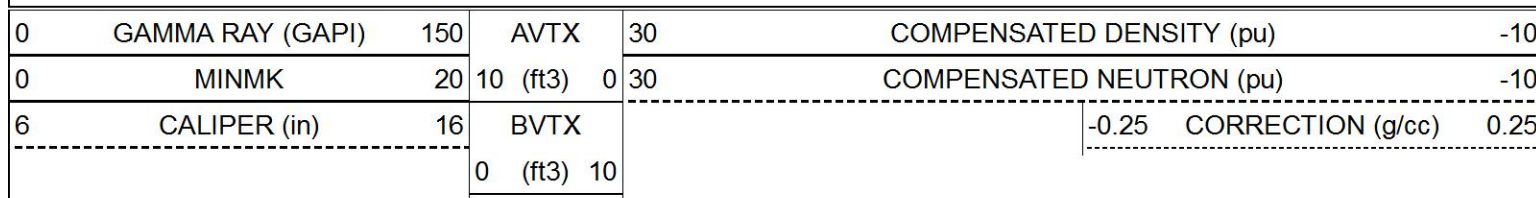


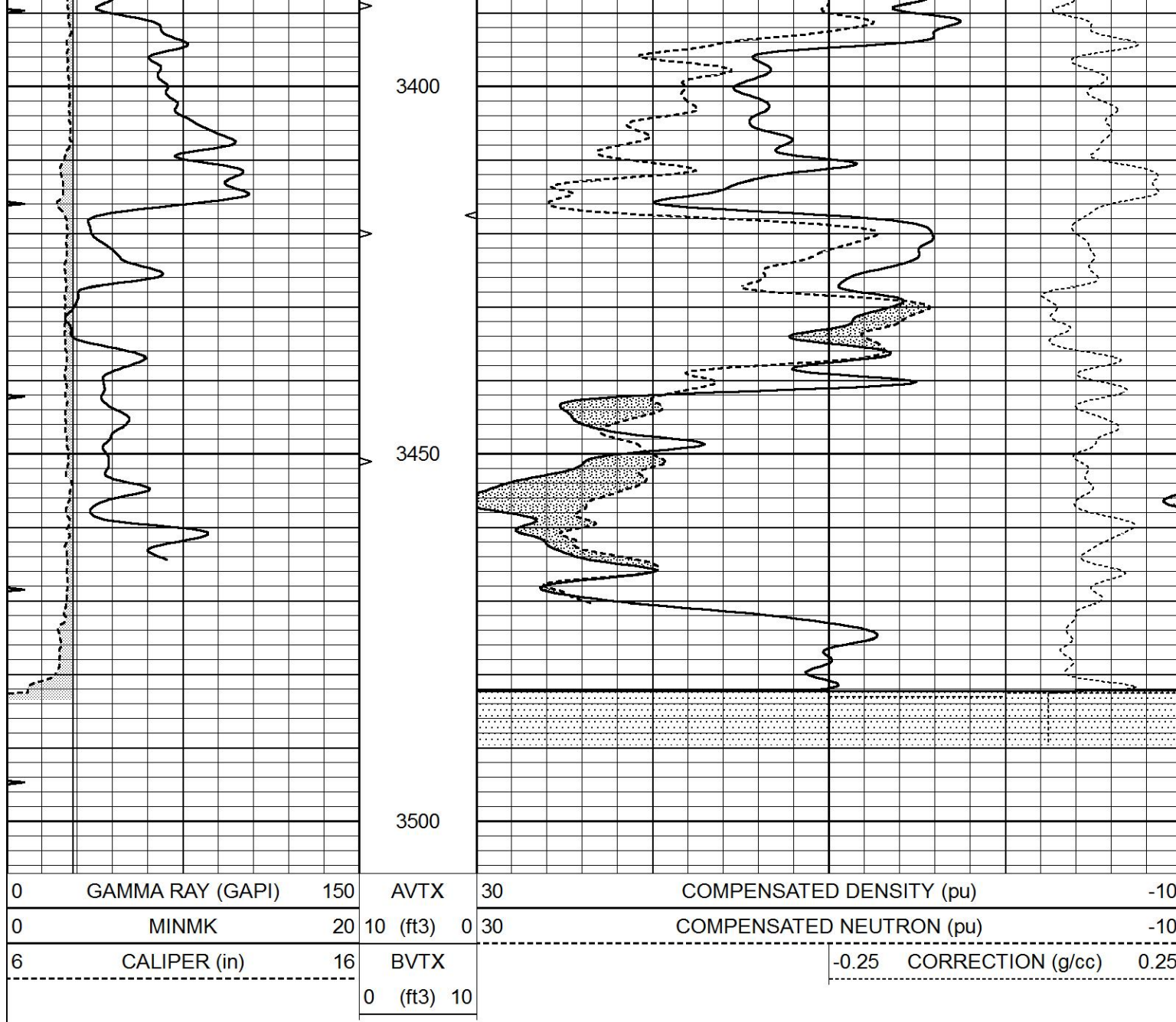
ABHV
5.5" CSG



REPEAT SECTION

Database File 5201ddn.db
 Dataset Pathname pass2.1
 Presentation Format _den_neu
 Dataset Creation Wed Jan 06 23:47:48 2021
 Charted by Depth in Feet scaled 1:240

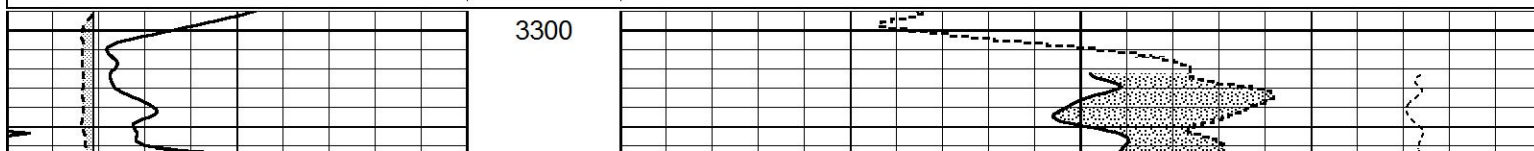


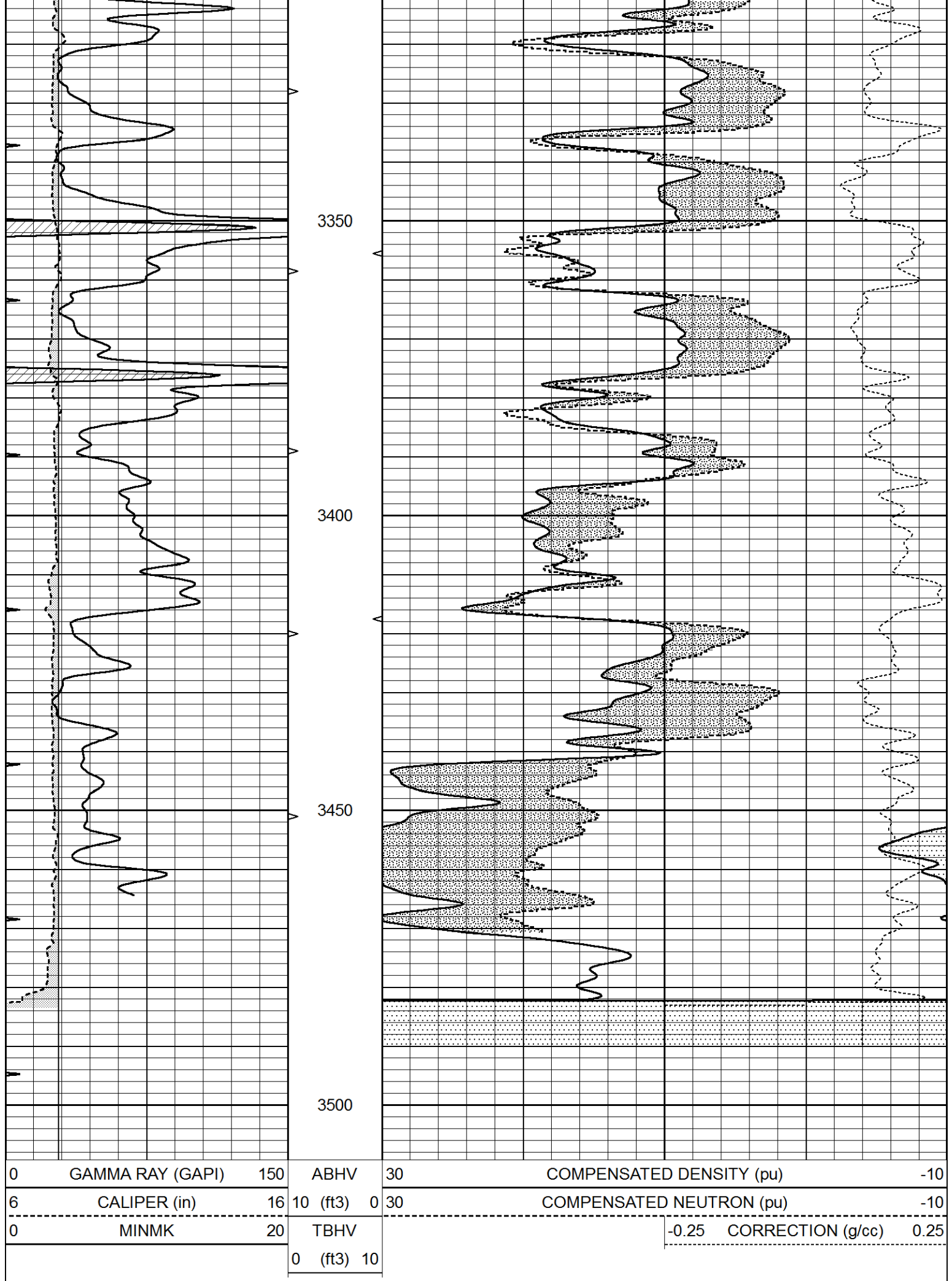


DOLOMITE MATRIX

Database File 5201ddn.db
 Dataset Pathname pass3.1.1
 Presentation Format den_neu
 Dataset Creation Wed Jan 06 23:54:16 2021
 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 5201ddn.db
Dataset Pathname pass2.1
Dataset Creation Wed Jan 06 23:47:48 2021

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

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		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		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: 140703
Model: V4_10P
Source Number: 74GBq-19

Master Calibration

Performed: Wed Dec 02 12:04:44 2020

	Background	Aluminum	Magnesium	
Window 1	595.38	5386.50	23898.92	cps
Window 2	52.78	1248.21	5993.75	cps
Window 4	251.36	1200.30	5155.55	cps
Window 5	545.15	9066.30	17240.12	cps
Window 6	43.35	1491.73	2929.24	cps
Window 8	258.76	2917.82	5450.26	cps
Bulk Density	-	2.6020	1.6830	g/cc
Pe	-	3.0000	2.5070	b/e

LS Alpha: : -1.8726		SS Alpha: : -0.7656		LS CPE: : 1.0742	
LS Beta: : 127345.0723		SS Beta: : 20293.3834		SS CPE: : 1.5427	
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 Dec 02 12:04:44 2020	
Results	Readings		References (in)		
Low	High	Low	High	Gain	Offset
8003.0	11159.9	8.0	14.0	0.0	-7.2
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