



COMPENSATED DENSITY/NEUTRON LOG

Company	PHILLIPS EXPLORATION COMPANY, L.C.	Company	PHILLIPS EXPLORATION COMPANY, L.C.
Well	GEYER #4-3 YEP	Well	GEYER #4-3 YEP
Field	SALINE VALLEY	Field	SALINE VALLEY
County	TREGO	County	TREGO
State	KANSAS	State	KANSAS
Location:	API # : 15-195-23126-0000 1100' FNL & 1150' FWL	Other Services DIL	
Permanent Datum	SEC 3 TWP 11S RGE 24W	Elevation	
Log Measured From	GROUND LEVEL Elevation 2335 KELLY BUSHING 5' A.G.L	K.B. 2340 D.F. 2338 G.L. 2335	
Drilling Measured From	KELLY BUSHING		
Date	10/6/21		
Run Number	ONE		
Depth Driller	3970		
Depth Logger	3972		
Bottom Logged Interval	3948		
Top Log Interval	3300		
Casing Driller	8 5/8" @ 212'		
Casing Logger	212'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4100 PPM	
Density / Viscosity	9.4/50		
pH / Fluid Loss	10.0/7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.95 @ 70F		
Rmf @ Meas. Temp	.71 @ 70F		
Rmc @ Meas. Temp	1.14 @ 70F		
Source of Rmf / Rmc	MEASUREMENT		
Rm @ BHT	.57 @ 116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	////		
Maximum Recorded Temperature	116F		
Equipment Number	3802		
Location	HAYS, KANSAS		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	PAT DEENIHAN		

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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

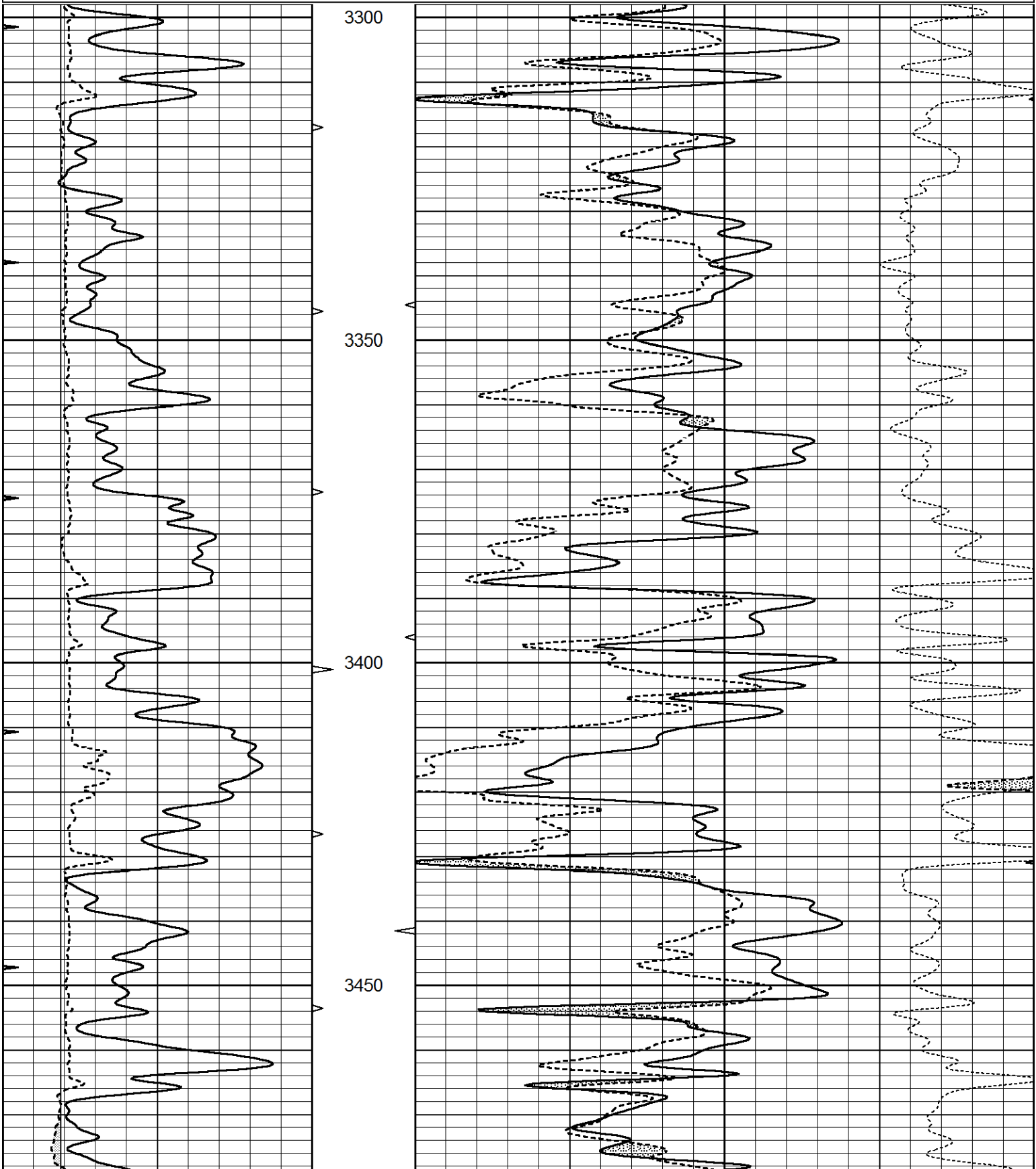
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
WAKEENEY, KS. - NORTH TO RD. B - 5 WEST TO RD. 200 - 1 NORTH - 1/2 EAST
SOUTH INTO

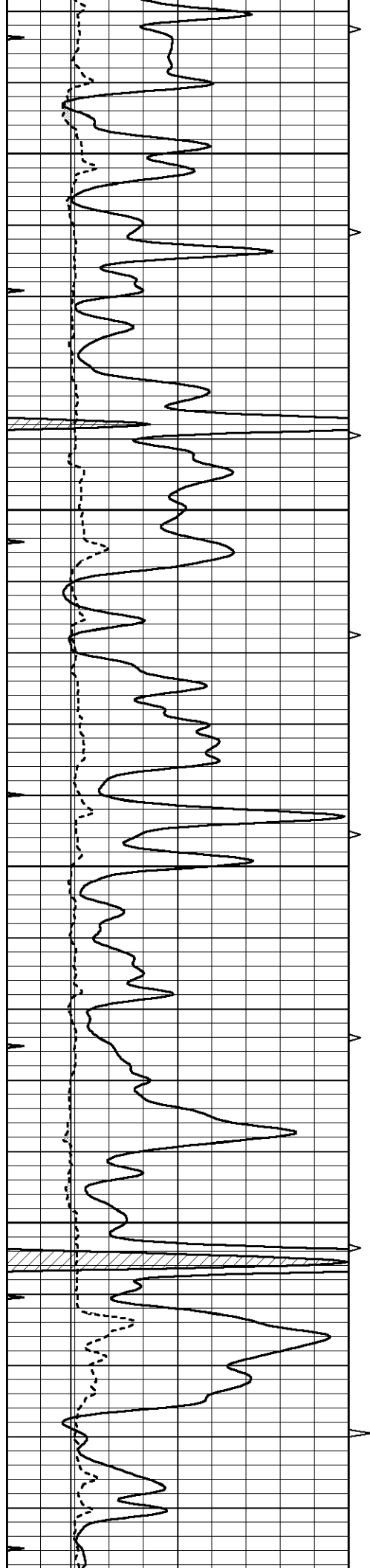


MAIN SECTION

Database File	5860ddn.db
Dataset Pathname	pass3.1
Presentation Format	_den_neu
Dataset Creation	Wed Oct 06 12:26:20 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			



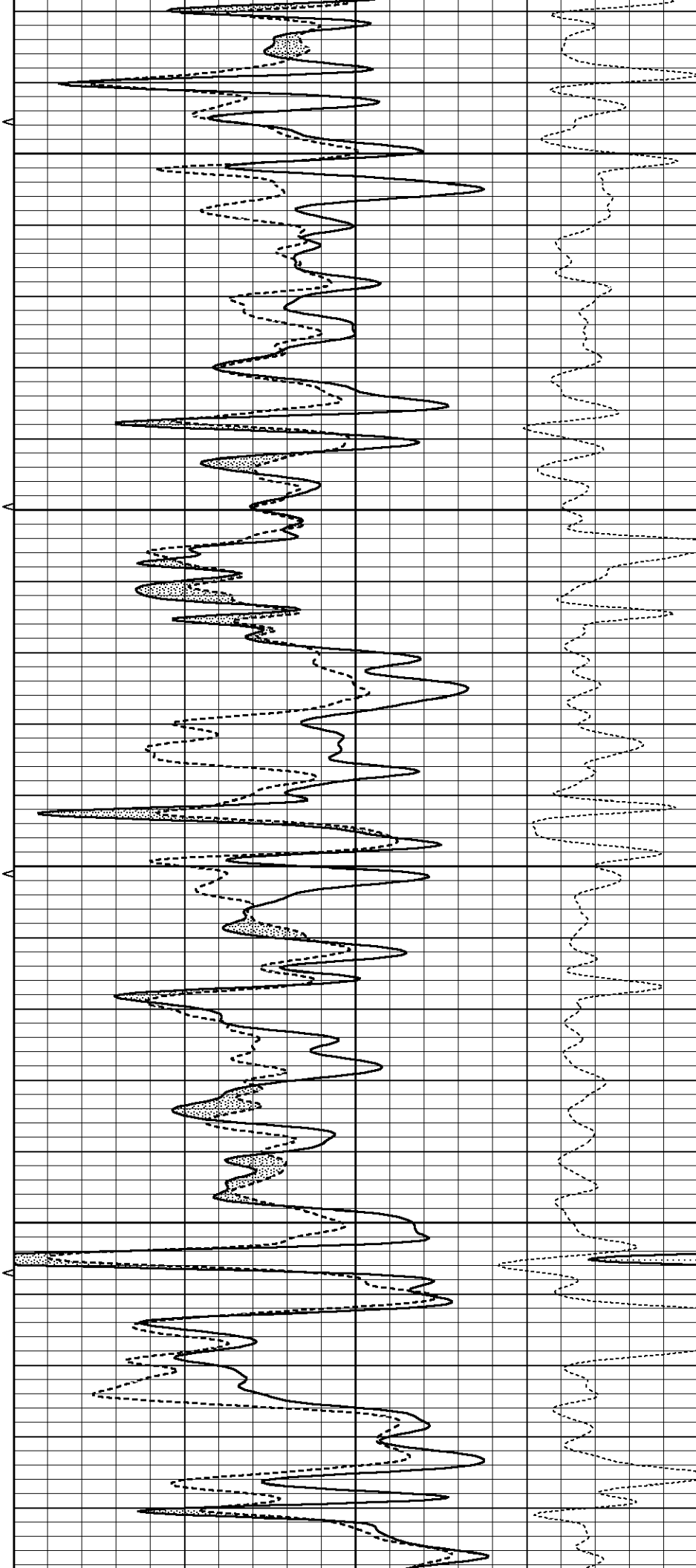


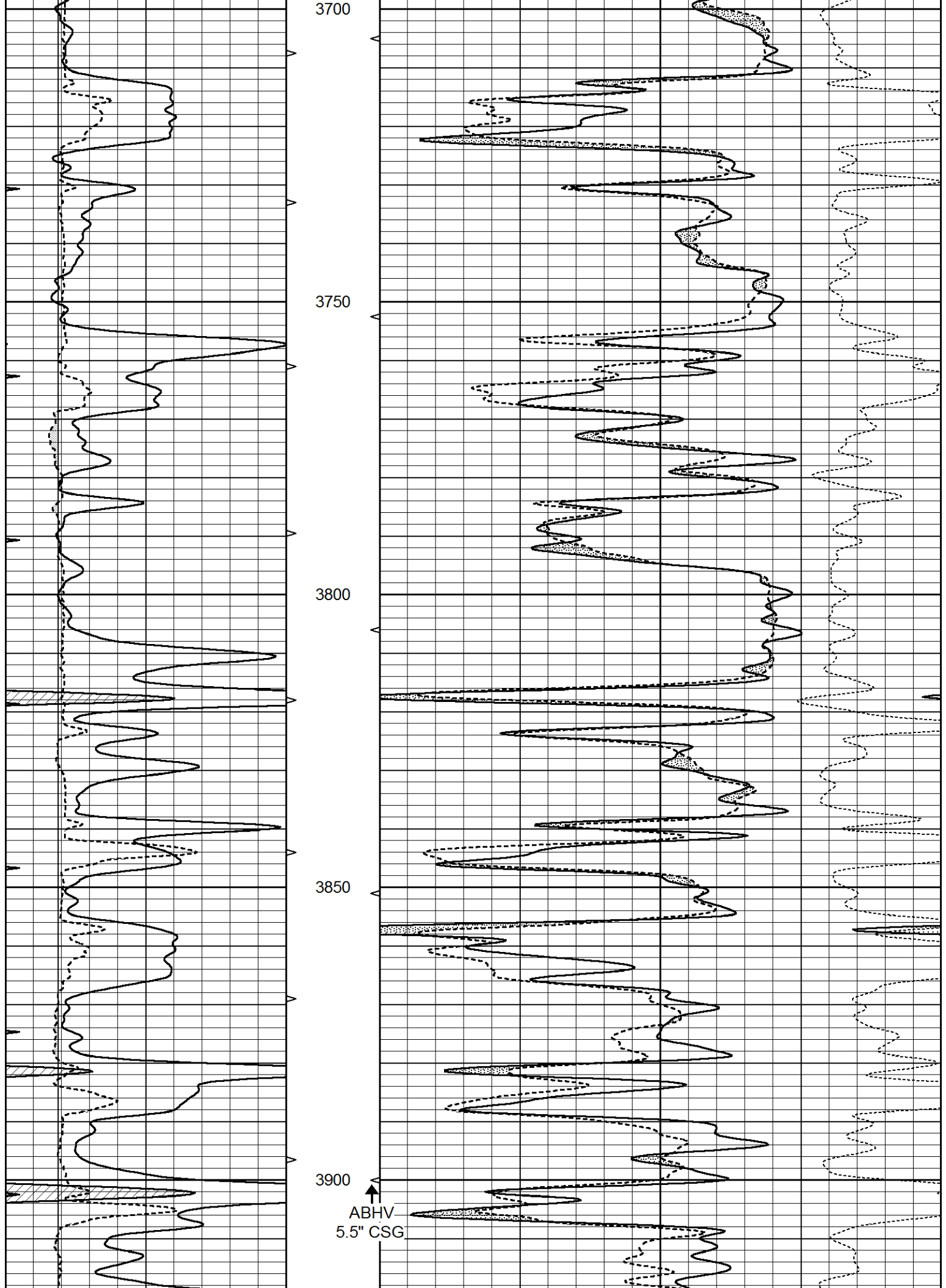
3500

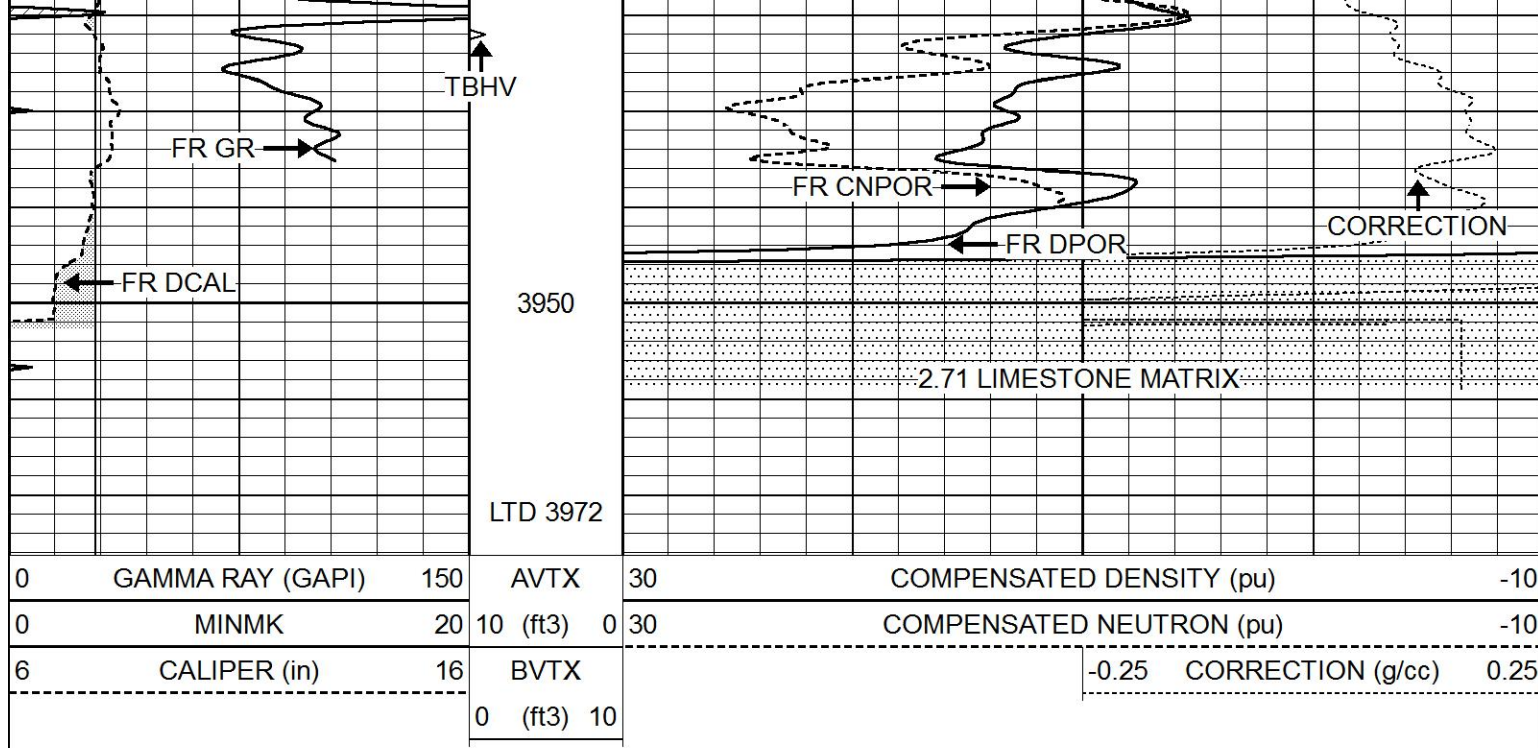
3550

3600

3650

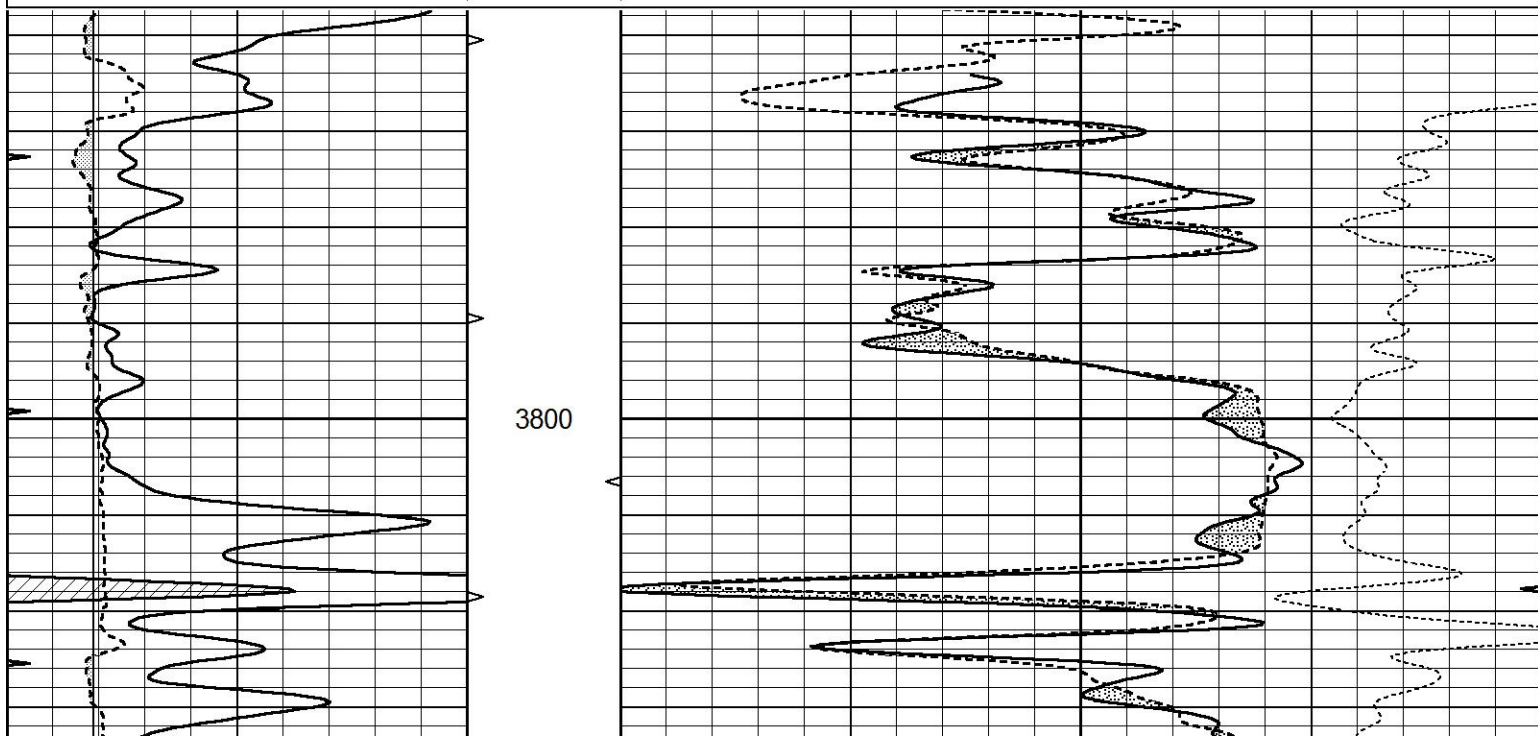
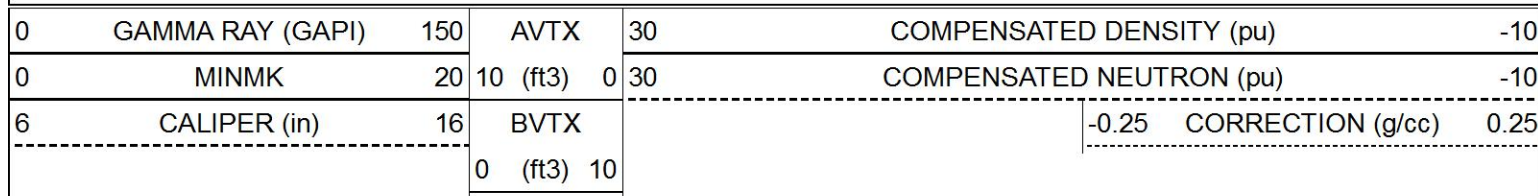


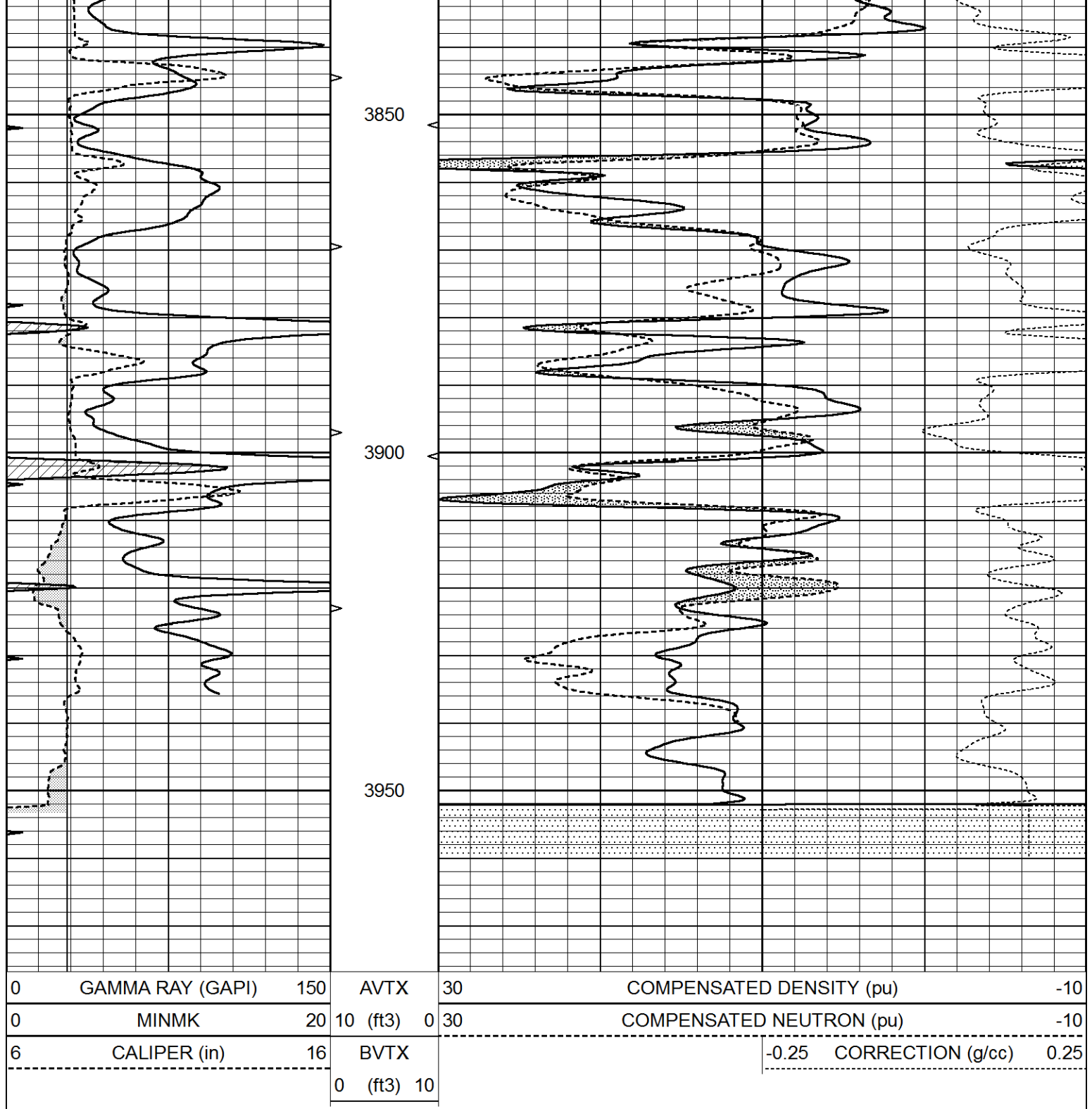




REPEAT SECTION

Database File 5860ddn.db
 Dataset Pathname pass2.1
 Presentation Format _den_neu
 Dataset Creation Wed Oct 06 12:24:39 2021
 Charted by Depth in Feet scaled 1:240





Calibration Report			
Database File	5860ddn.db		
Dataset Pathname	pass2.1		
Dataset Creation	Wed Oct 06 12:24:39 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: 140704 Model: V4_10P Source Number: 74GBq-19								
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Master Calibration				Performed: Mon Dec 07 12:12:14 2020				
	Background	Aluminum	Magnesium					
Window 1	557.73	5525.14	24361.20	cps				
Window 2	47.08	1245.09	5901.17	cps				
Window 4	239.06	1250.70	5456.76	cps				
Window 5	564.08	8300.56	16134.07	cps				
Window 6	44.21	1356.78	2705.40	cps				
Window 8	267.87	2686.97	5150.30	cps				
Bulk Density	-	2.6020	1.6830	g/cc				
Pe	-	3.0000	2.5070	b/e				
LS Alpha:	: -1.8719	SS Alpha:	: -0.8000	LS CPE:		: 1.1424		
LS Beta:	: 135562.6841	SS Beta:	: 20128.7209	SS CPE:		: 1.5489		

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				
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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 Dec 07 12:12:14 2020
Results	Readings	References (in)
Low	High	Low High Gain Offset
5852.8	8972.7	8.0 14.0 0.0 -3.3
Before Survey Caliper Verification		Performed:
	Reference	Reading
Caliper (in)		
After Survey Caliper Verification		Performed:
	Reference	Reading
Caliper (in)		
Compensated Neutron Calibration Report		
	Serial Number: Tool Model:	080621PMC 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 Jan 19 17:50:08 2021	
Calibrator Value:	1.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.5300	GAPI/cps