



**COMPENSATED
DENSITY/NEUTRON
LOG**

Company **CHARTER ENERGY, INC.**
Well **TRUMP #1**
Field
County **BARTON** State **KANSAS**

Location: **API # : 15-009-26242-0000**
2275' FSL & 1932' FEL
SW - NE - NW - SE
SEC 1 TWP 20S RGE 14W
Permanent Datum **GROUND LEVEL Elevation : 1868**
Log Measured From **KELLY BUSHING 5' A.G.L**
Drilling Measured From **KELLY BUSHING**

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Other Services
**DILMEL
SONIC**
Elevation
K.B. 1873
D.F. 1871
G.L. 1868

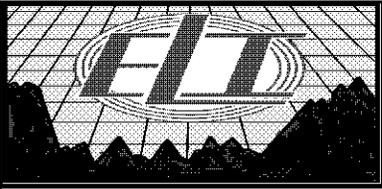
Date	12/15/18	
Run Number	ONE	
Depth Driller	3600	
Depth Logger	3602	
Bottom Logged Interval	3578	
Top Log Interval	2900	
Casing Driller	8 5/8" @ 8'10"	
Casing Logger	808'	
Bit Size	7 7/8"	
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8000 PPM
Density / Viscosity	8.7/56	
pH / Fluid Loss	9.0/7.6	
Source of Sample	FLOWLINE	
Rm @ Meas. Temp	.45 @ 55F	
Rmt @ Meas. Temp	.33 @ 55F	
Rmc @ Meas. Temp	.54 @ 55F	
Source of Rmf / Rmc	MEASUREMENT	
Rm @ BHT	.22 @ 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	JIM MUSGROVE	

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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

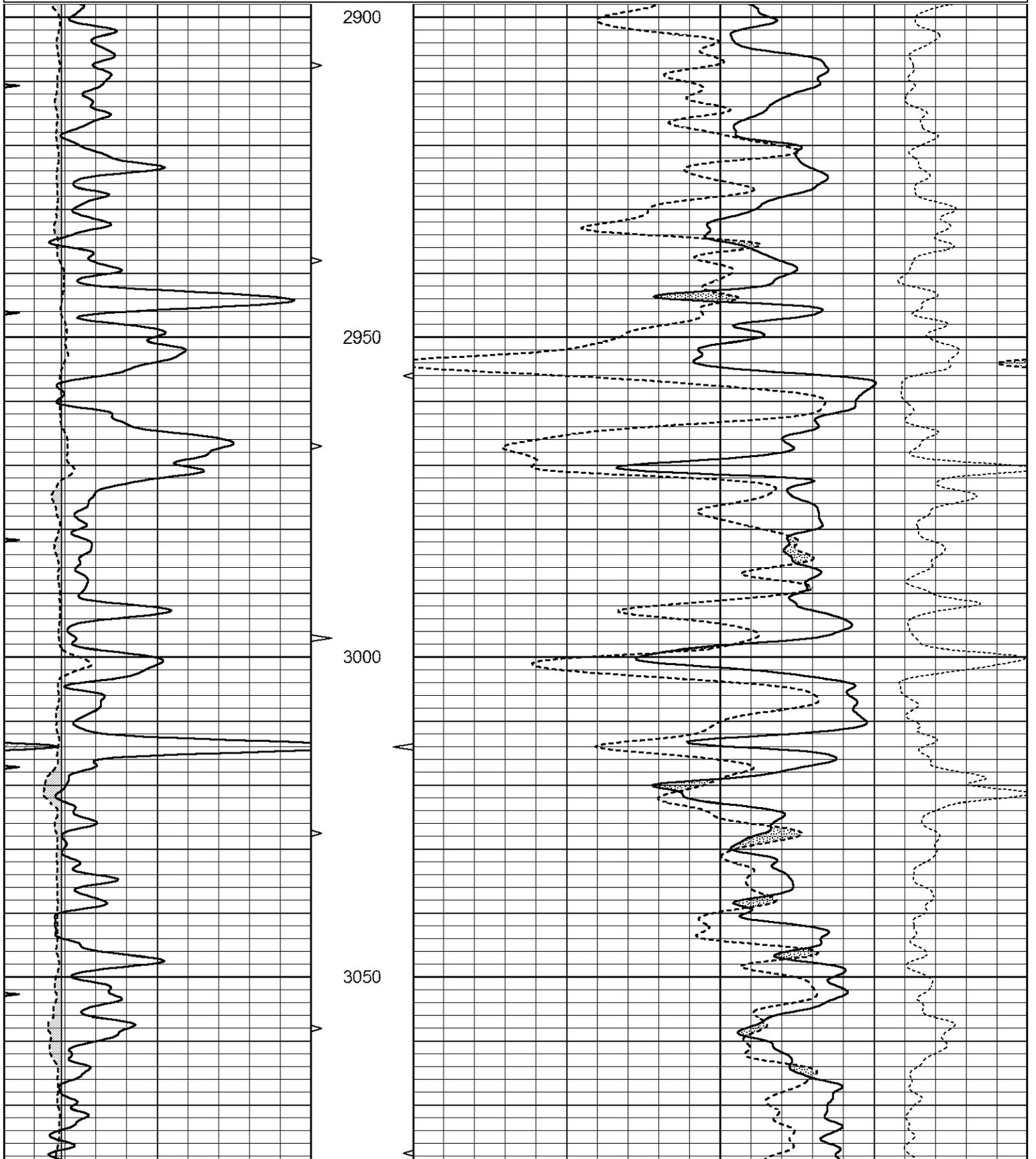
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
GREAT BEND, KS. - 1 MILE SOUTHWEST ON HWY 156 TO RD. 30 - SOUTH PAST
FENCE - EAST INTO

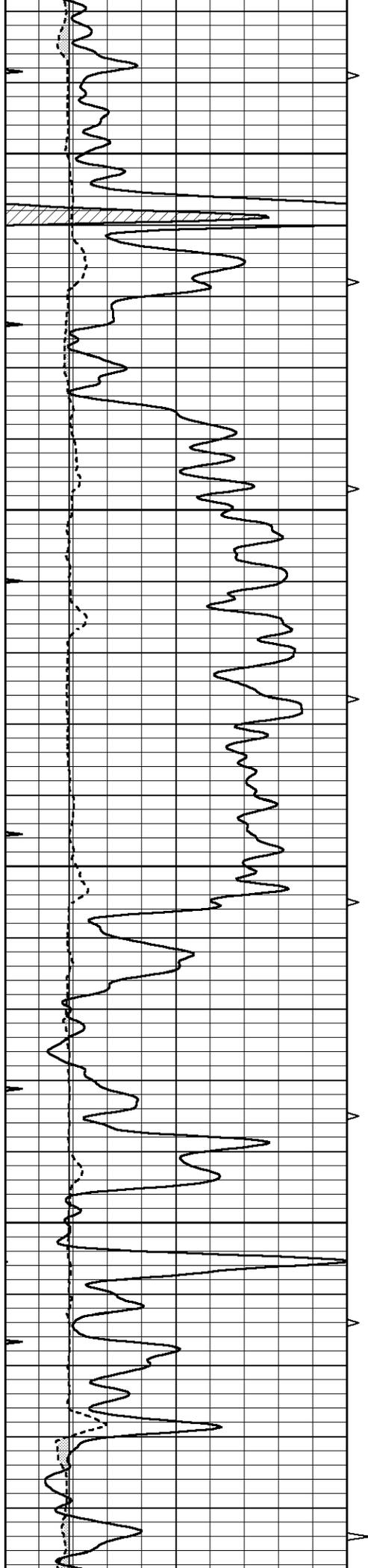


MAIN SECTION

Database File 3430ddn8.db
 Dataset Pathname pass3.1
 Presentation Format _den_neu
 Dataset Creation Sat Dec 15 05:54:41 2018
 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			



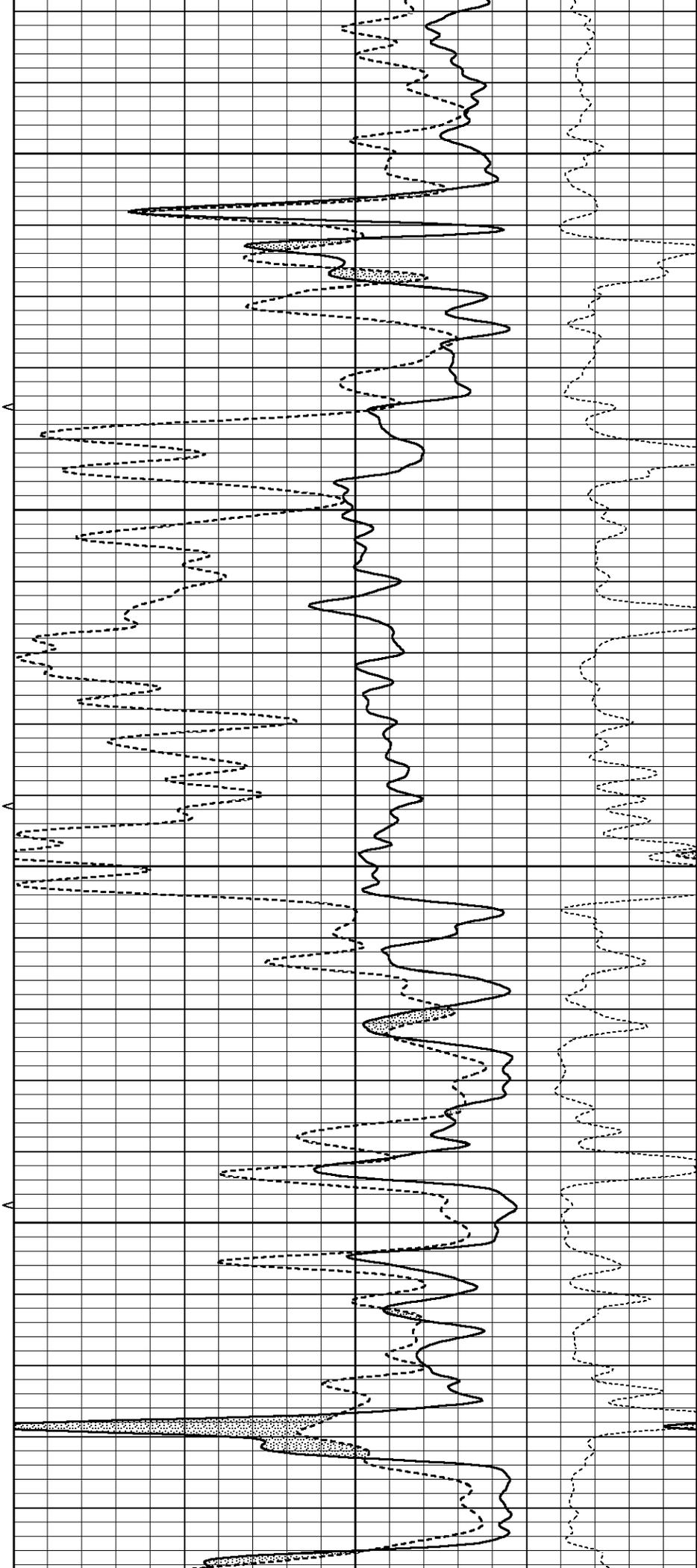


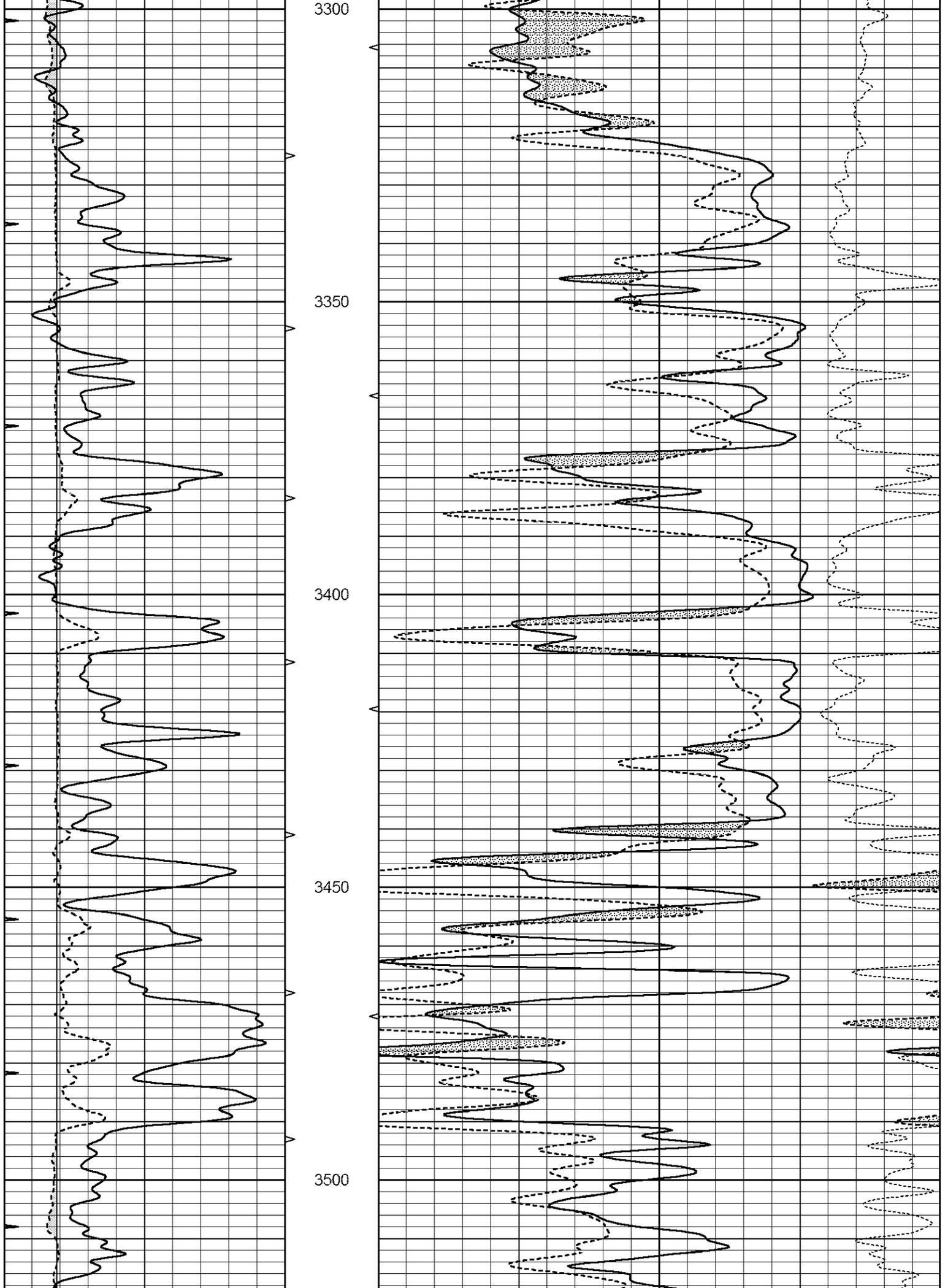
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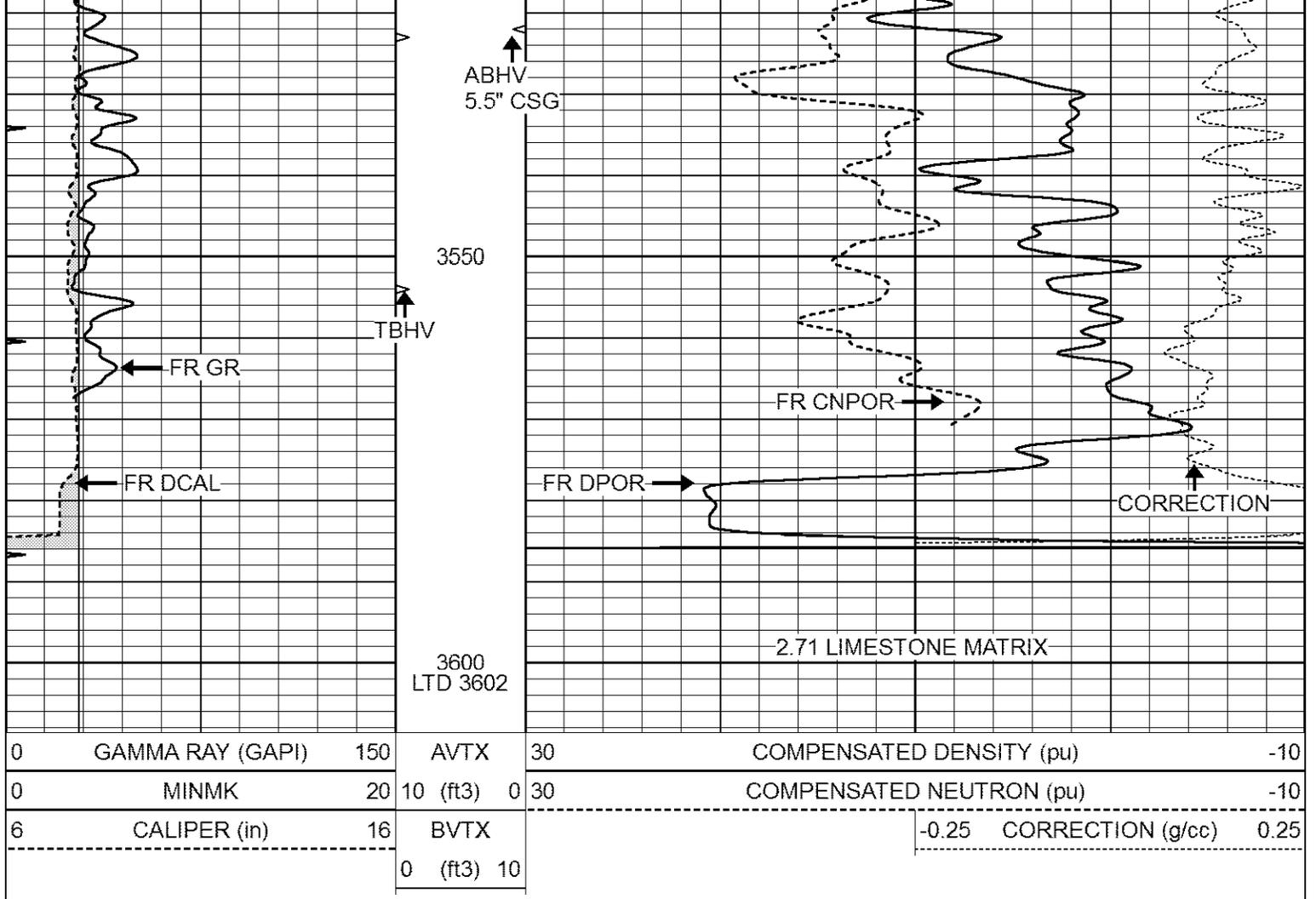
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3250



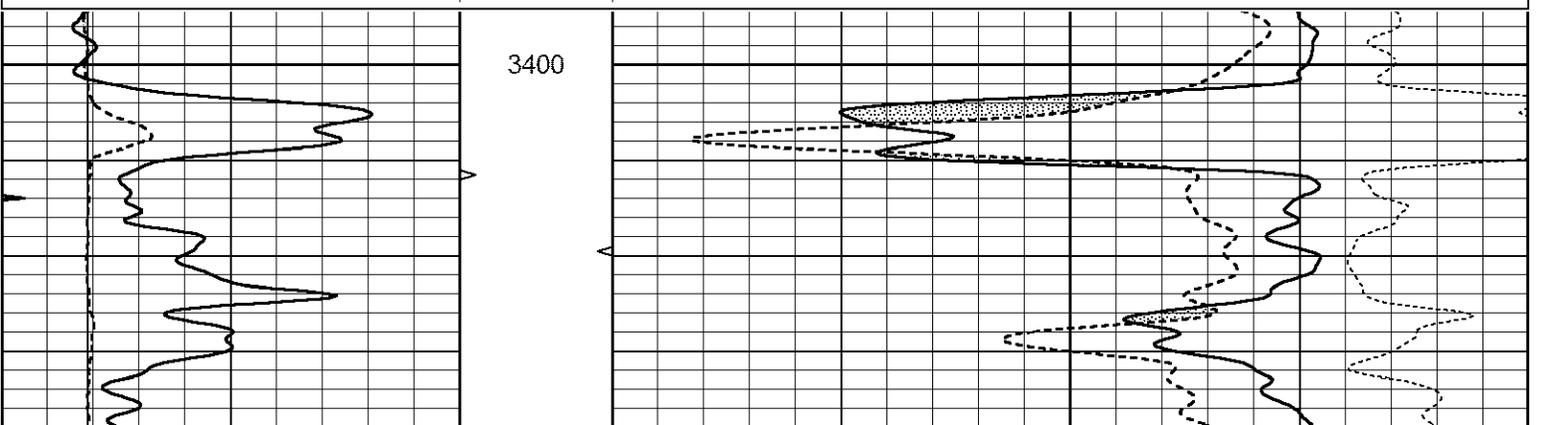


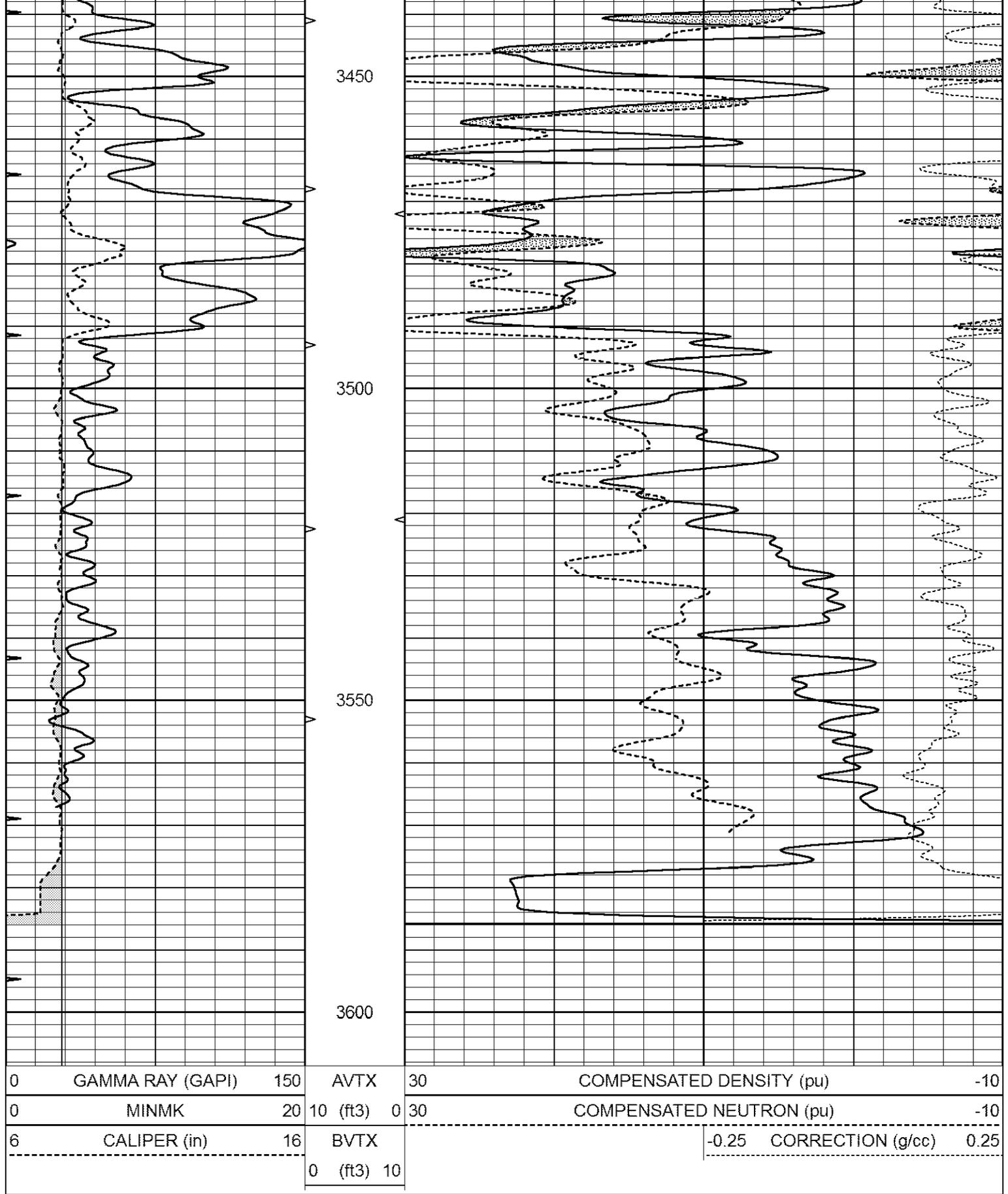


REPEAT SECTION

Database File 3430ddn8.db
 Dataset Pathname pass2.1
 Presentation Format _den_neu
 Dataset Creation Sat Dec 15 05:51:32 2018
 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 3430ddn8.db
 Dataset Pathname pass3.1
 Dataset Creation Sat Dec 15 05:54:41 2018

Serial-Model:
 Surface Cal Performed:
 Downhole Cal Performed:
 After Survey Verification Performed:

FW1410-55-Probe
 Mon May 22 14:23:32 2017
 Thu Mar 12 09:29:20 2015
 Thu Mar 12 09:29:20 2015

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		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		

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: Wed Dec 05 01:26:33 2018
 Calibrator Value: 1.0 GAPI

Background Reading:	0.0	cps
Calibrator Reading:	1.0	cps
Sensitivity:	0.4300	GAPI/cps