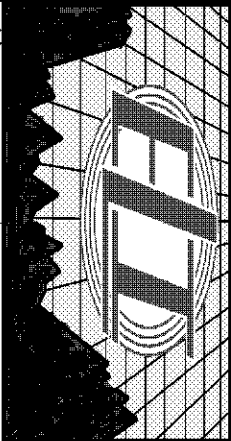


COMPENSATED DENSITY/NEUTRON LOG



Company PHILLIPS EXPLORATION COMPANY, L.C.

Well GEYER #3 OK

Field

County TREGO

State KANSAS

Location: API #: 15-195-23076-0000

990' FSL & 1650' FWL

SEC 3 TWP 11S RGE 24W

Permanent Datum GROUND LEVEL Elevation 2305
Log Measured From KELLY BUSHING 5' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL/MEL

Elevation
K.B. 2310
D.F. 2308
G.L. 2305

Date 12/12/18

Run Number ONE

Depth Driller 3982

Depth Logger 3984

Bottom Logged Interval 3960

Top Log Interval 3000

Casing Driller 8 5/8" @ 217

Casing Logger 216

Bit Size 7 7/8"

Type Fluid in Hole CHEMICAL MUD CHLORIDES 5300 PPM

Density / Viscosity 9.1/51

pH / Fluid Loss 10.5/7.2

Source of Sample FLOWLINE

Rm @ Meas. Temp .65 @ 58F

Rmf @ Meas. Temp .48 @ 58F

Rmc @ Meas. Temp .78 @ 58F

Source of Rmf / Rmc MEASUREMENT

Rm @ BHT .36 @ 116F

Time Circulation Stopped 2 HOURS

Time Logger on Bottom ////

Maximum Recorded Temperature 116F

Equipment Number 3802

Location HAYS, KANSAS

Recorded By JASON CAPELLUCCI

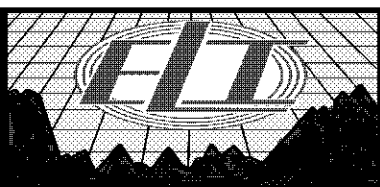
Witnessed By PAT DEENIHAN

<<< Fold Here >>>

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

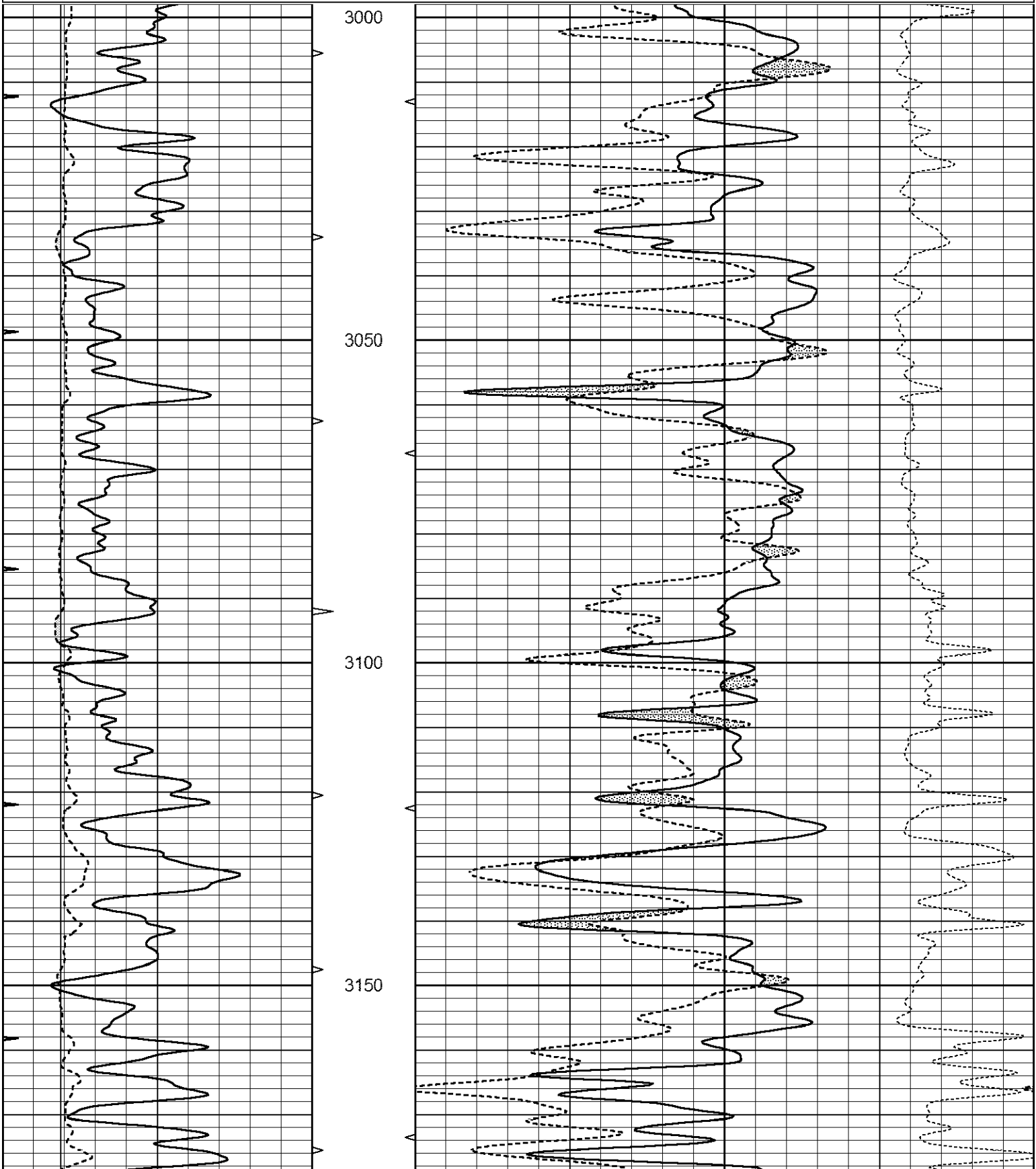
THANK YOU FOR USING ELI WIRELINE SERVICES, HAYS, KS. (785) 628-6395
DIRECTIONS
WAKEENEY, KS. - NORTH TO SALINE RIVER - 1 NORTH OF RIVER TO RD. B
5 1/2 WEST - NORTH INTO

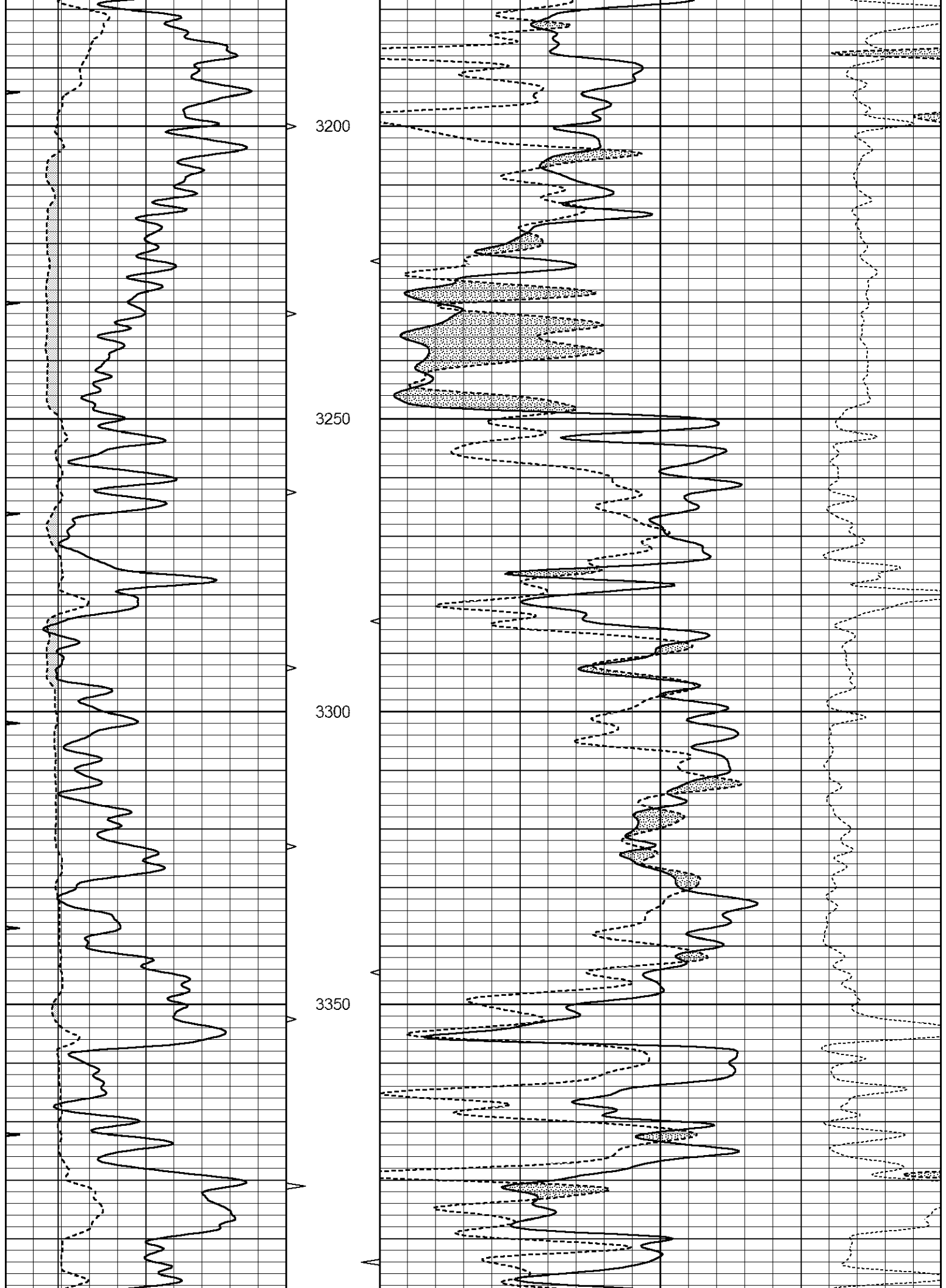


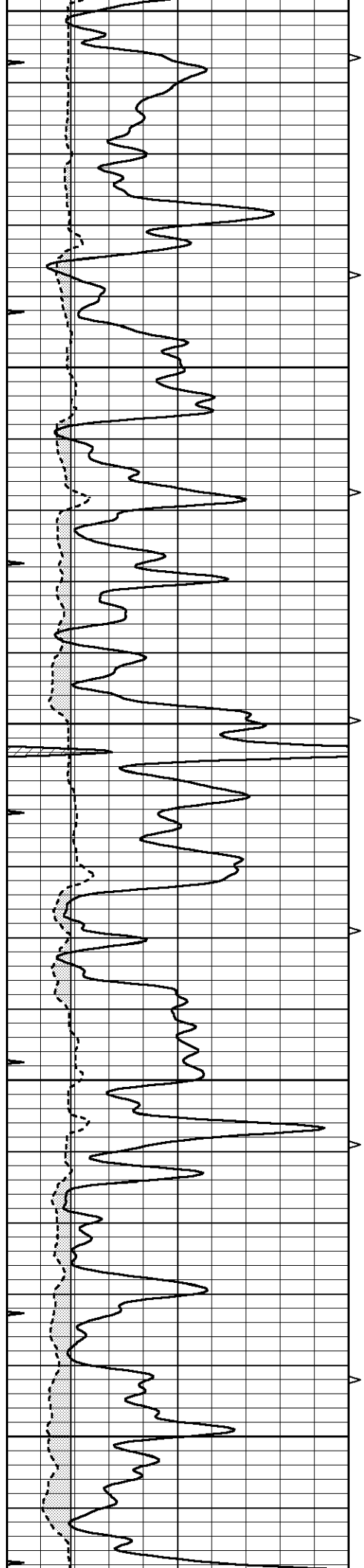
MAIN SECTION

Database File	3428ddn8.db
Dataset Pathname	pass4.1
Presentation Format	_den_neu
Dataset Creation	Wed Dec 12 07:59:41 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			







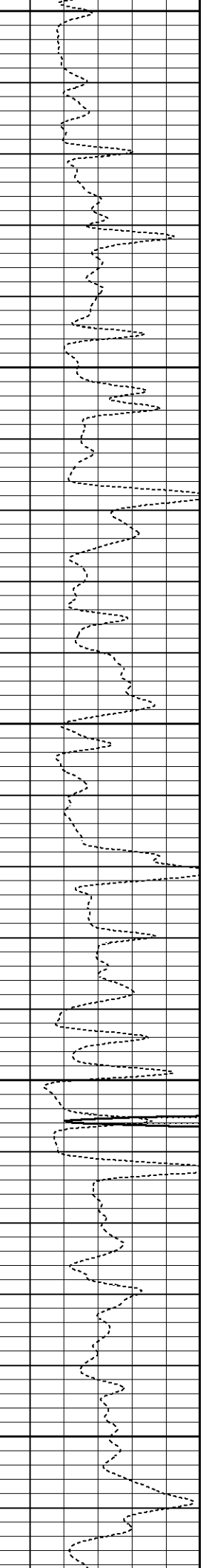
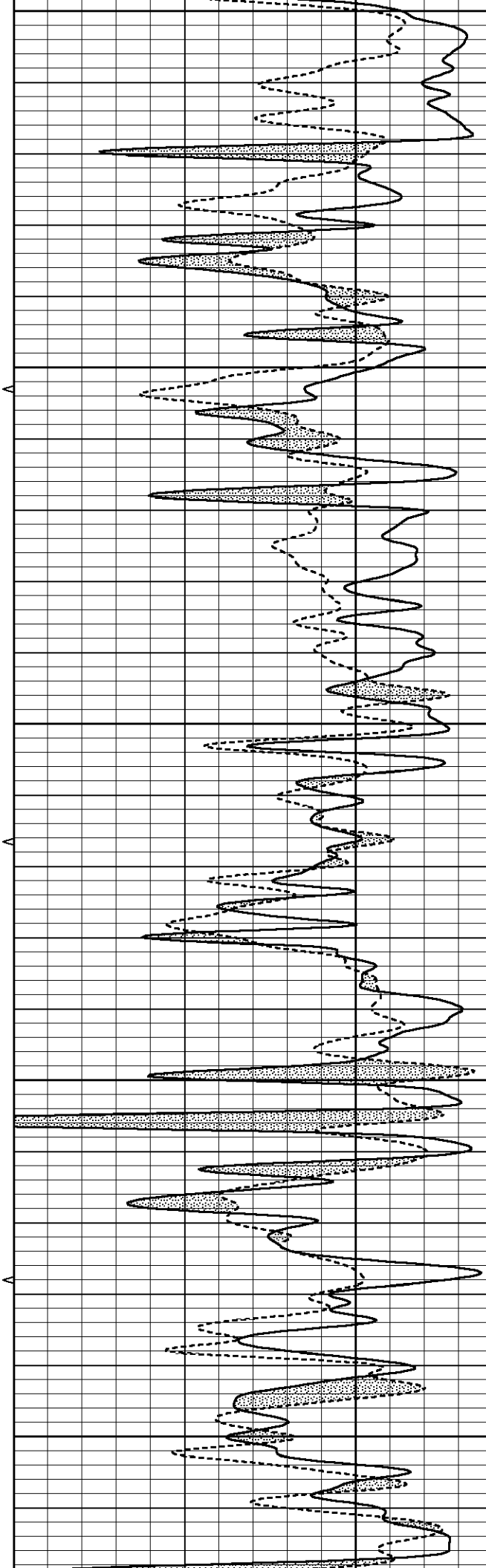
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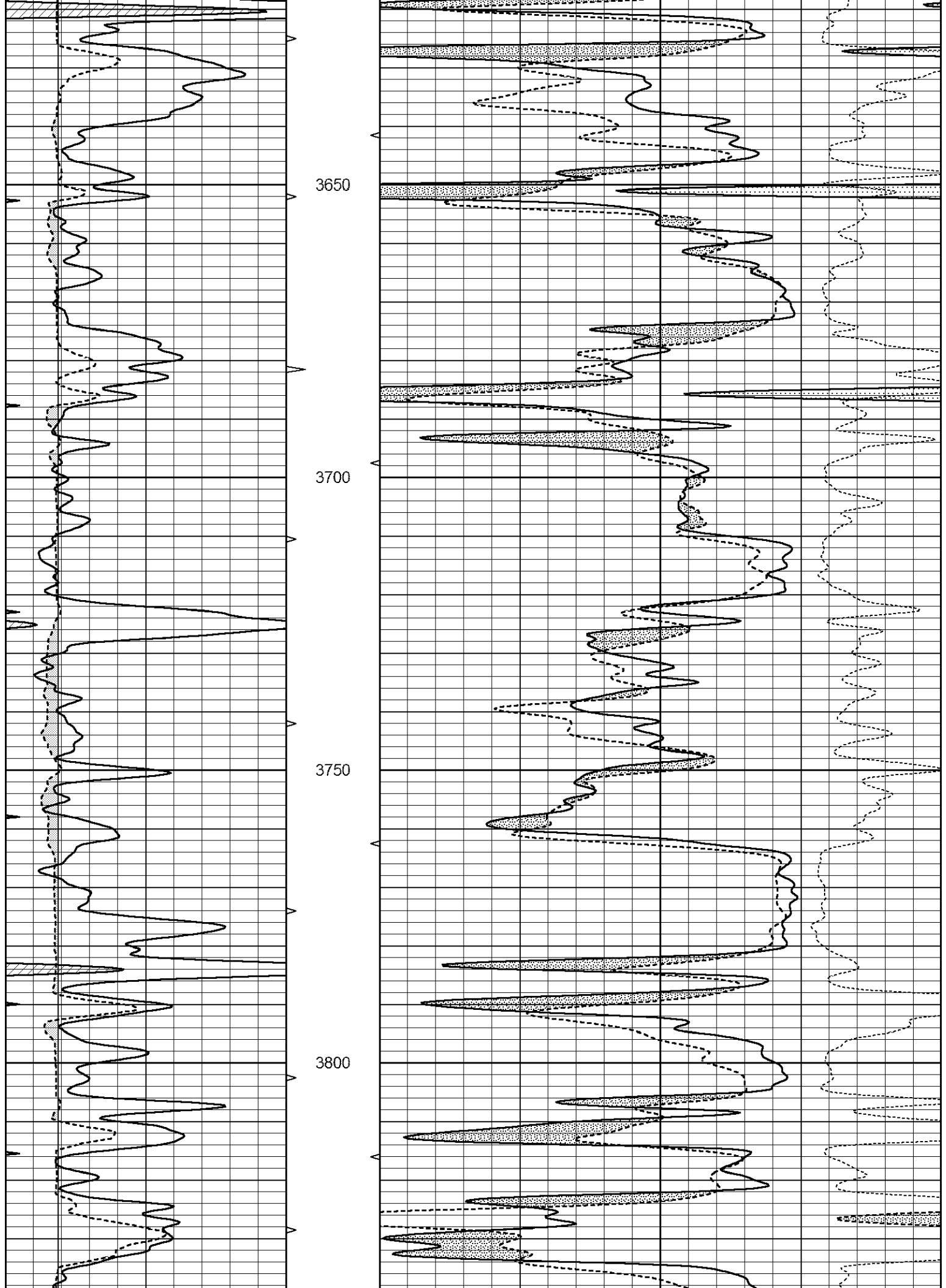
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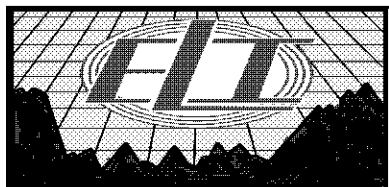
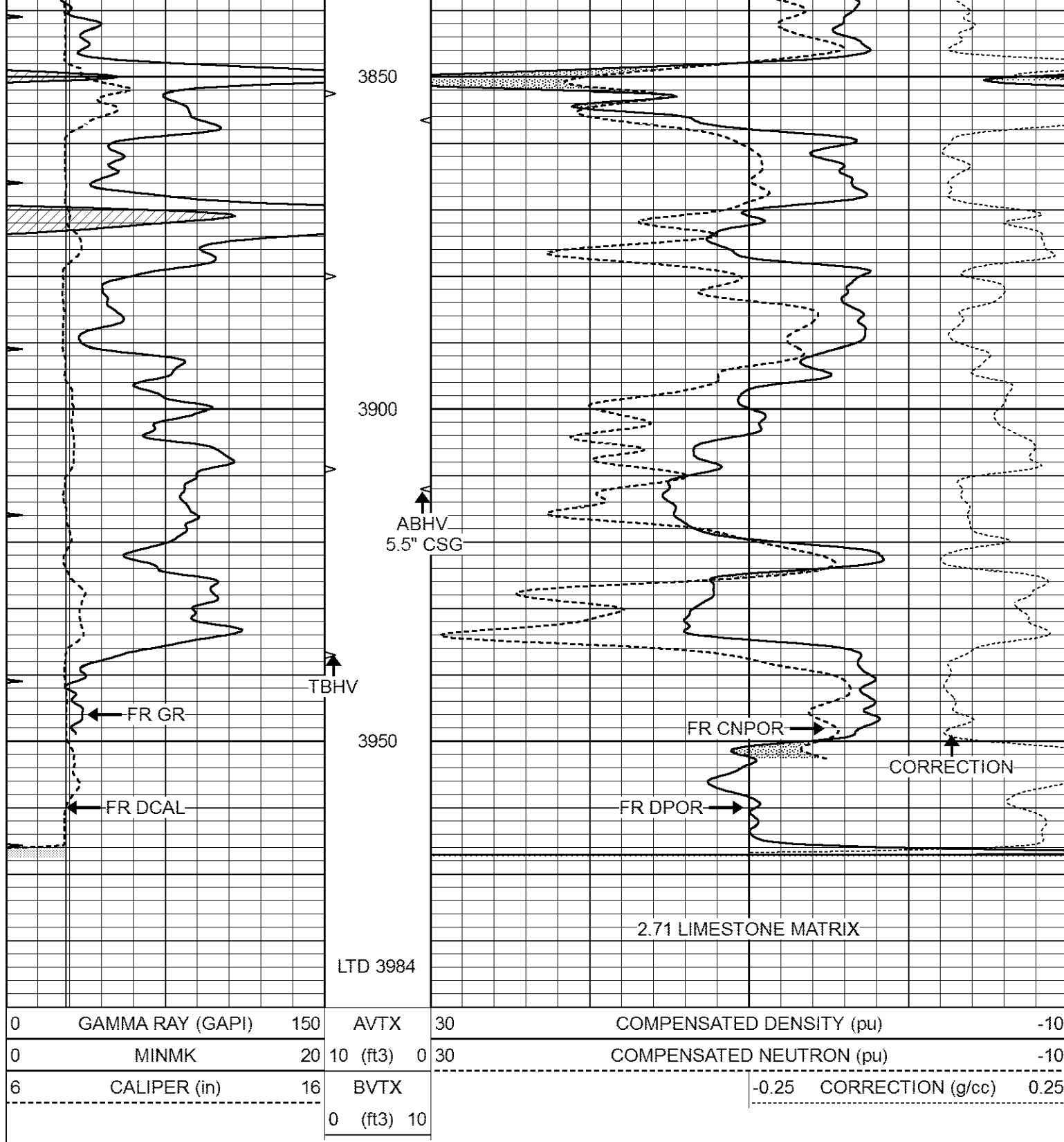
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3600



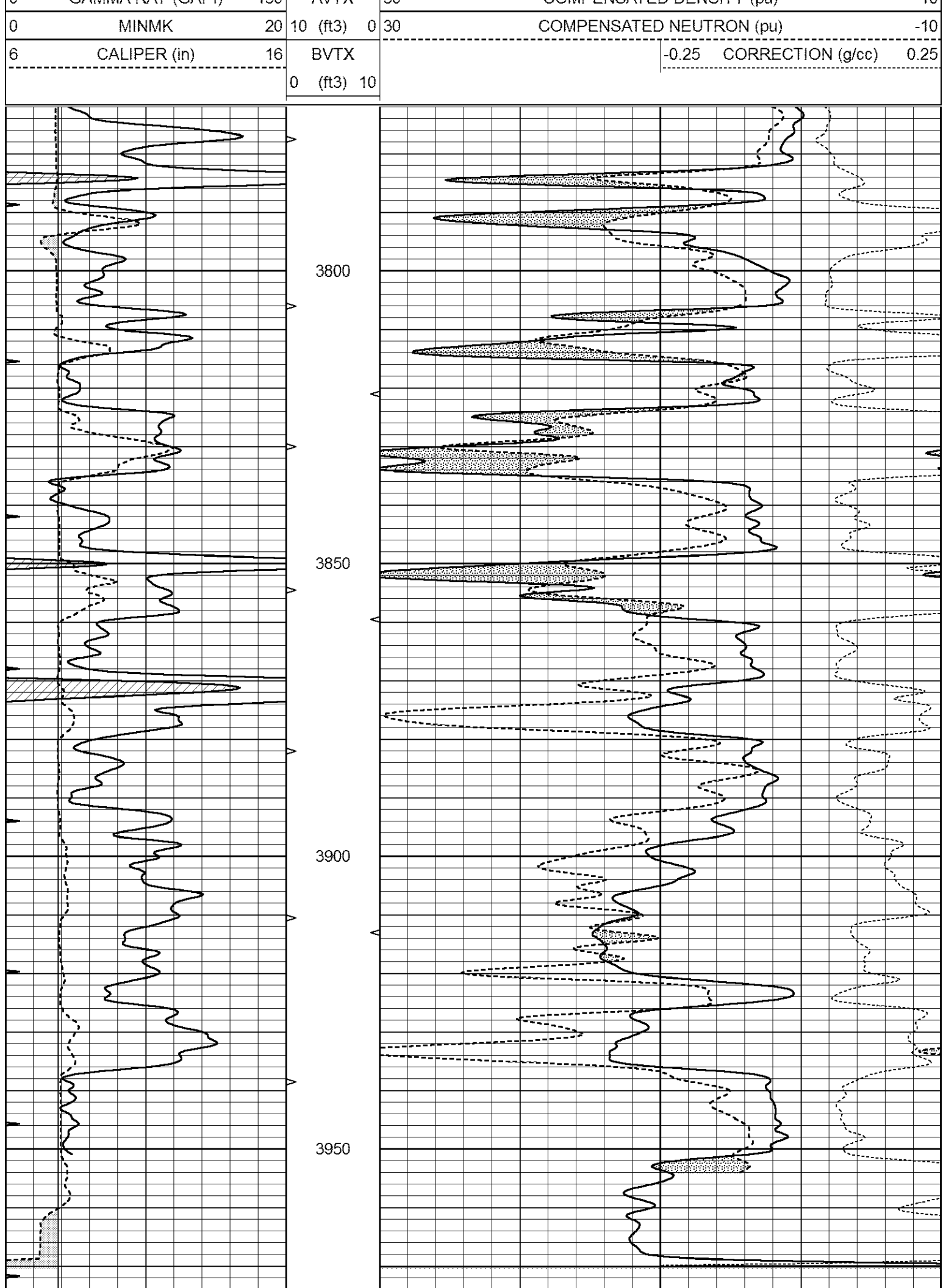




REPEAT SECTION

Database File 3428ddn8.db
 Dataset Pathname pass3.1
 Presentation Format _den_neu
 Dataset Creation Wed Dec 12 07:37:31 2018
 Charted by Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
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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	