



**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**COMPENSATED  
DENSITY / NEUTRON  
LOG**

Company SHELBY RESOURCES, LLC.  
Well VIOLA #1-35  
Field WILDCAT  
County PAWNEE State KANSAS

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Well VIOLA #1-35  
Field WILDCAT  
County PAWNEE  
State KANSAS

Location: API #: 15-145-21761-00-00  
720' FNL & 1920' FWL  
NE - SW - NE - NW  
SEC 35 TWP 21S RGE 16W  
Permanent Datum GROUND LEVEL Elevation 1977  
Log Measured From KELLY BUSHING 13' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services  
DIL  
MEL/SON  
Elevation  
K.B. 1990  
D.F. 1988  
G.L. 1977

Date	4-29-14		
Run Number	ONE		
Depth Driller	4050		
Depth Logger	4049		
Bottom Logged Interval	4025		
Top Log Interval	3200		
Casing Driller	8 5/8 @ 990'		
Casing Logger	988'		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES: 4400 PPM	
Density / Viscosity	9.3 / 59		
pH / Fluid Loss	11.0 / 8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	1.00 @ 69F		
Rmf @ Meas. Temp	0.75 @ 69F		
Rmc @ Meas. Temp	1.20 @ 69F		
Source of Rmf / Rmc	MEASURED		
Rim @ BHT	0.59 @ 116F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	116F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	JEFF GRONEWEG		
Witnessed By	JEREMY SCHWARTZ		

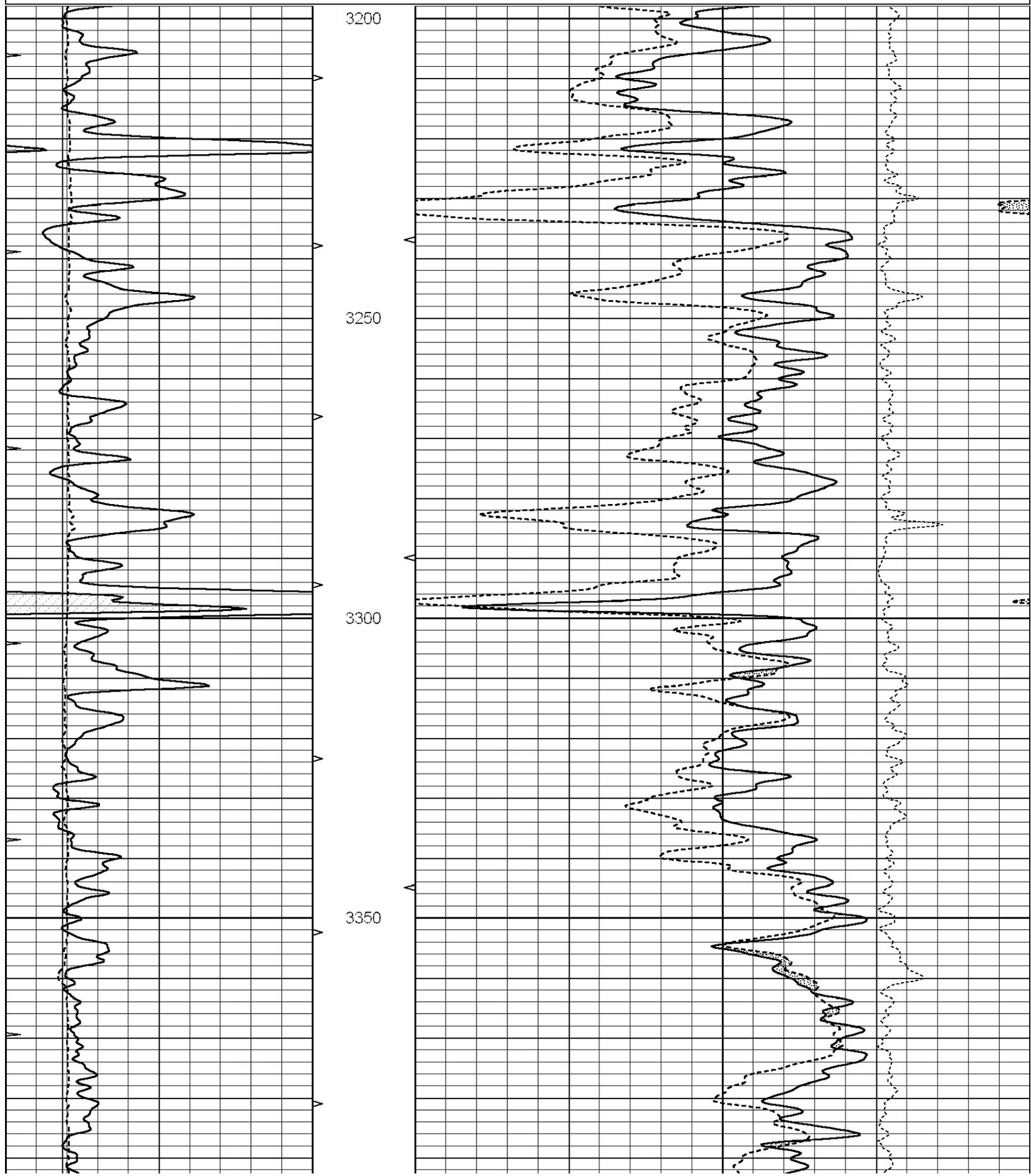
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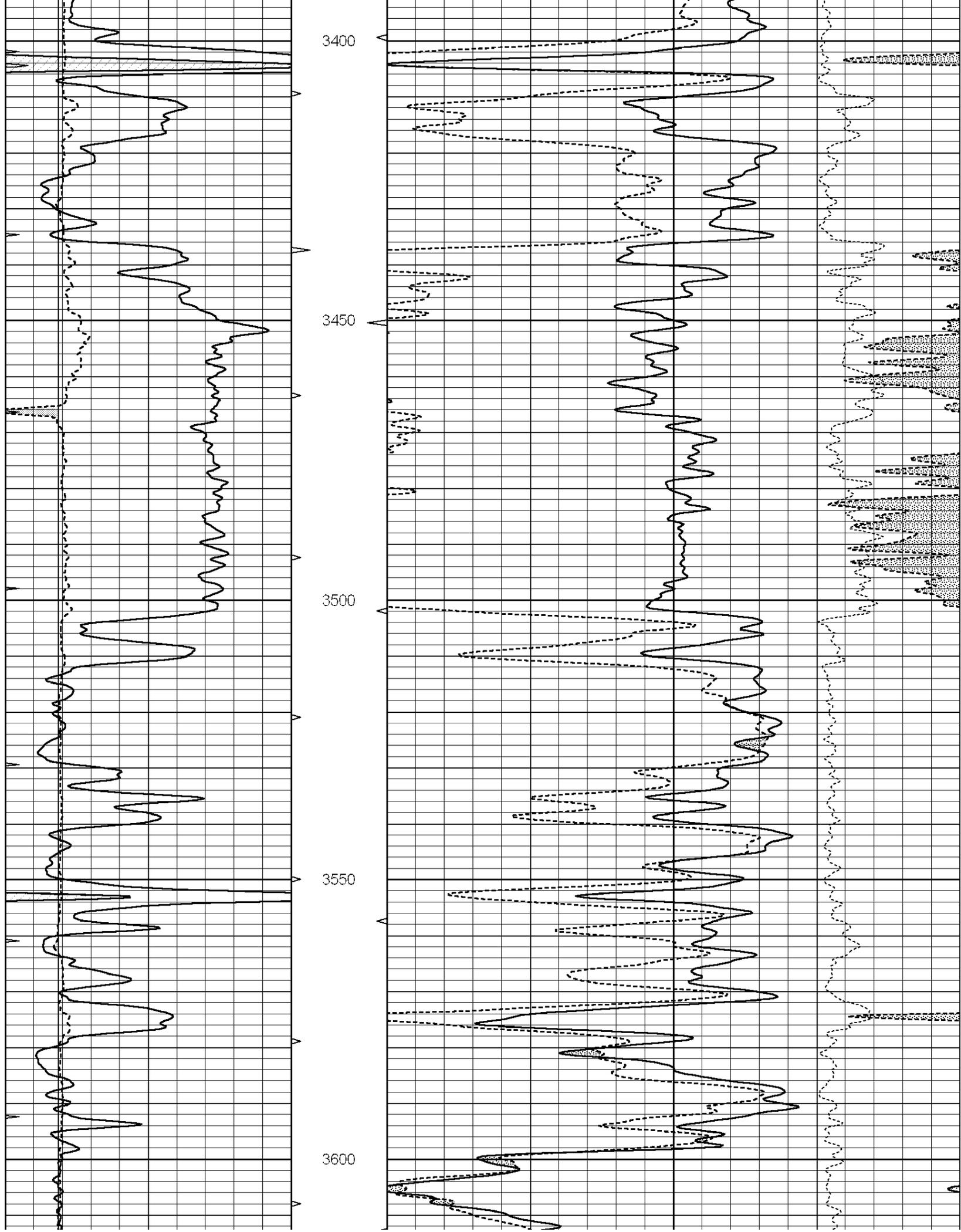
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs,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

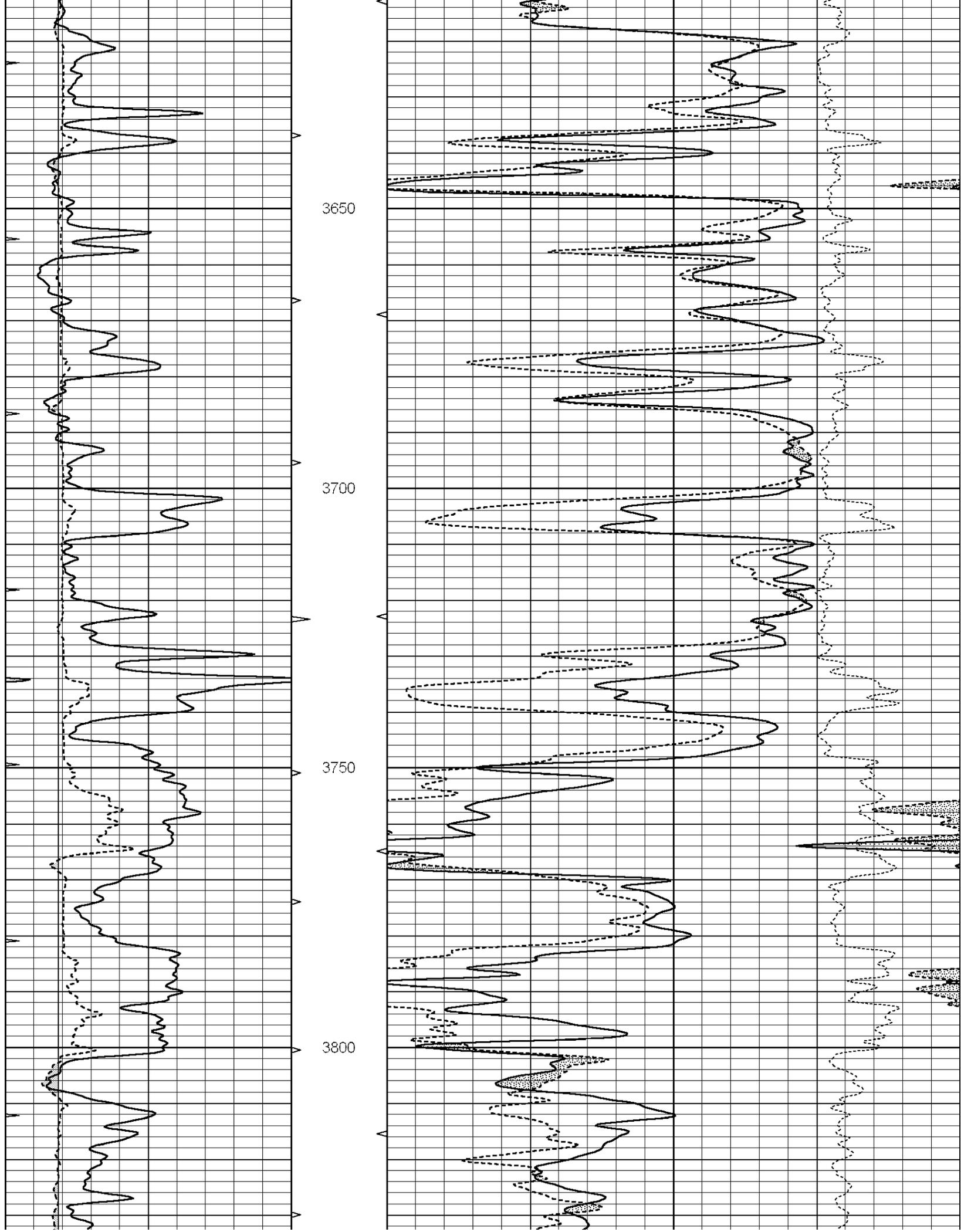
Comments

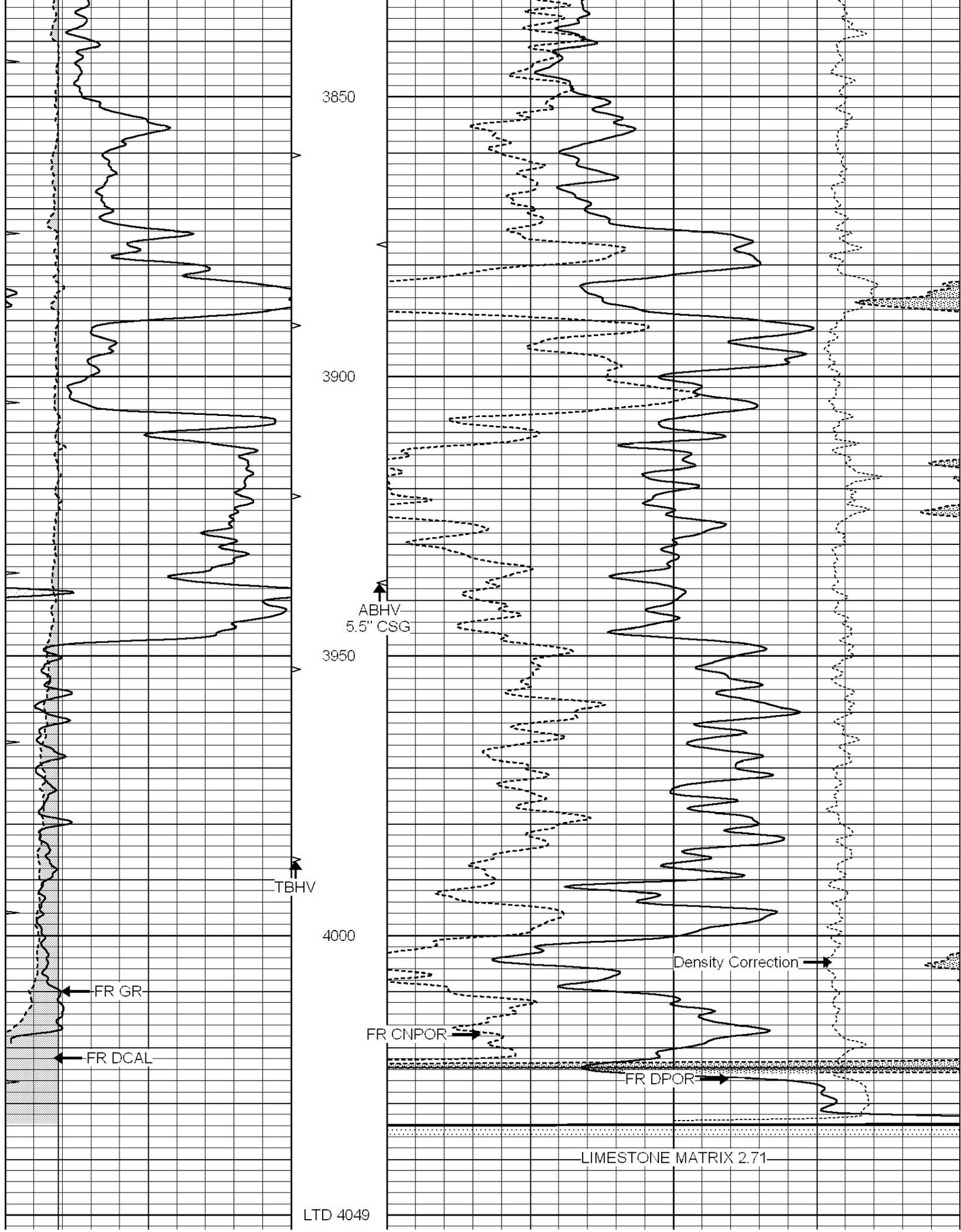
NABORS COMPLETION & PRODUCTION SERVICES  
785-628-6395  
THANK YOU FOR YOUR BUSINESS  
DIRECTIONS: LARNED, KS - SOUTH TO HWY 19 - 2 MILES EAST TO RD 90  
2 MILES SOUTH ON LEASE RD

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		-0.5 CORRECTION (g/cc)	0.5
			0 (ft3)	10		









3850

3900

3950

4000

ABHV  
5.5' CSG

TBHV

FR GR

FR DCAL

FR CNPOR

FR DPOR

Density Correction

LIMESTONE MATRIX 2.71

LTD 4049

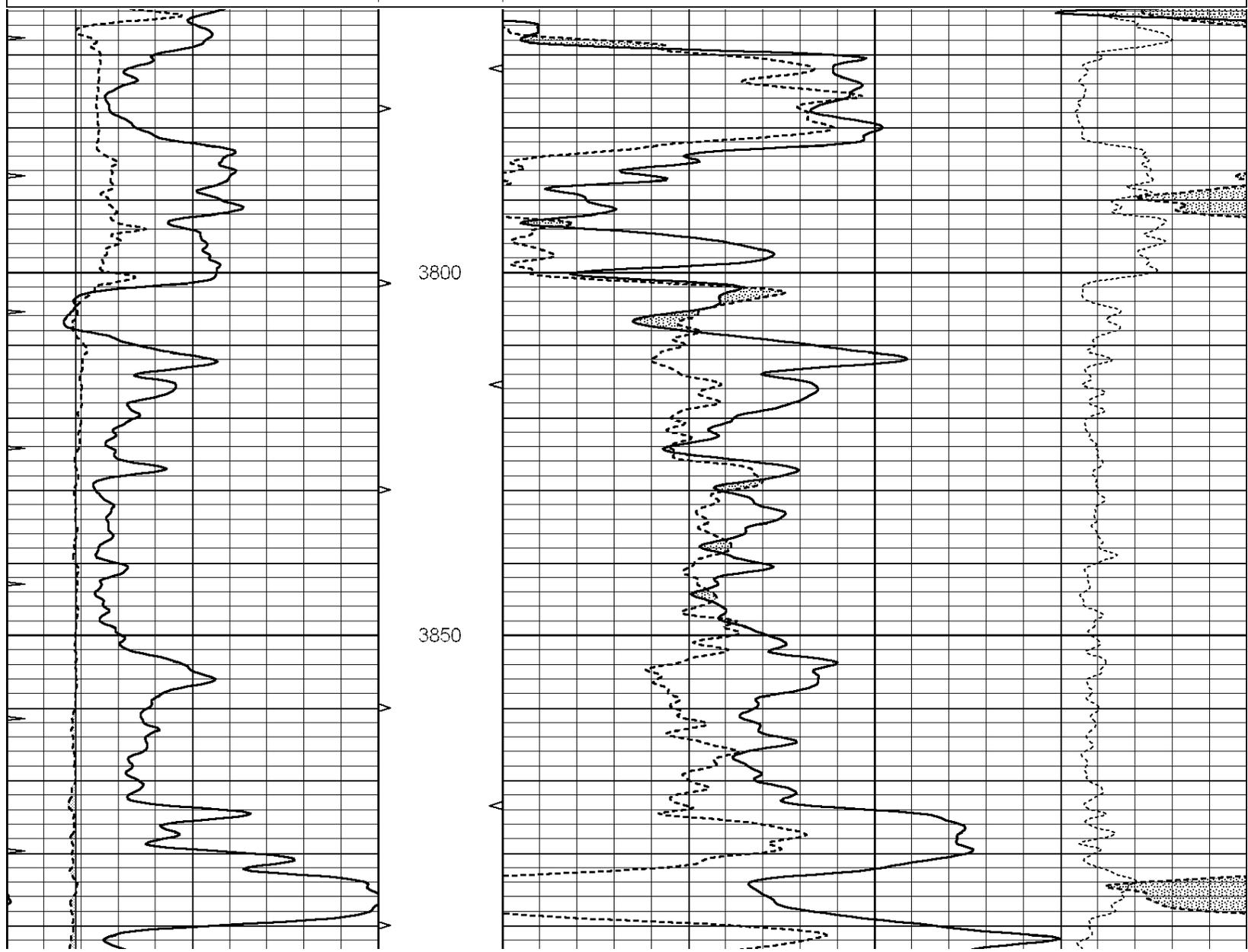
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0	MINMK	20	TBHV		-0.5 CORRECTION (g/cc)	0.5
			0 (ft3)	10		

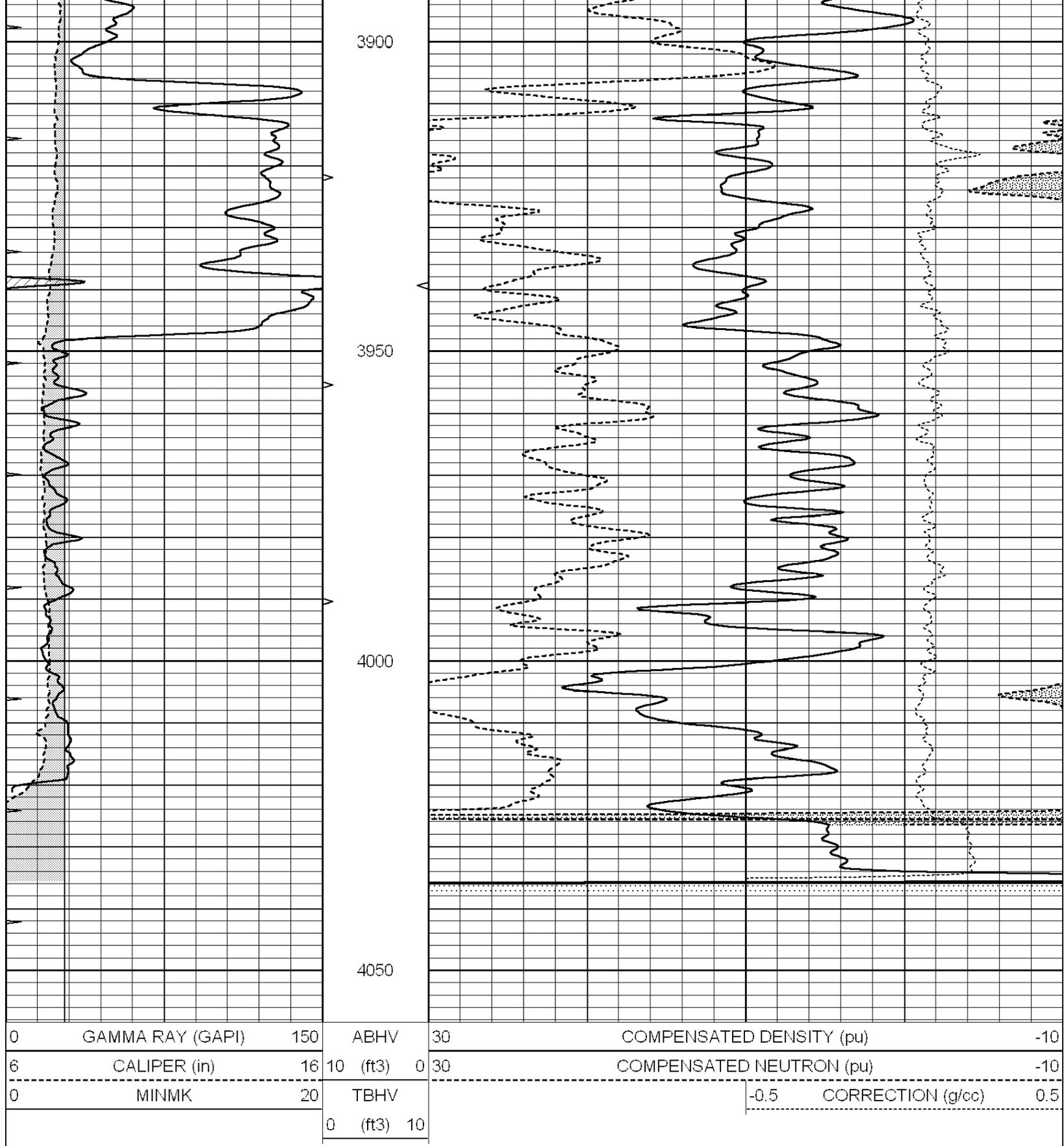


# REPEAT SECTION

Database File: 24146ddn.db  
 Dataset Pathname: pass2.1  
 Presentation Format: \_den\_neu  
 Dataset Creation: Tue Apr 29 13:22:59 2014 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

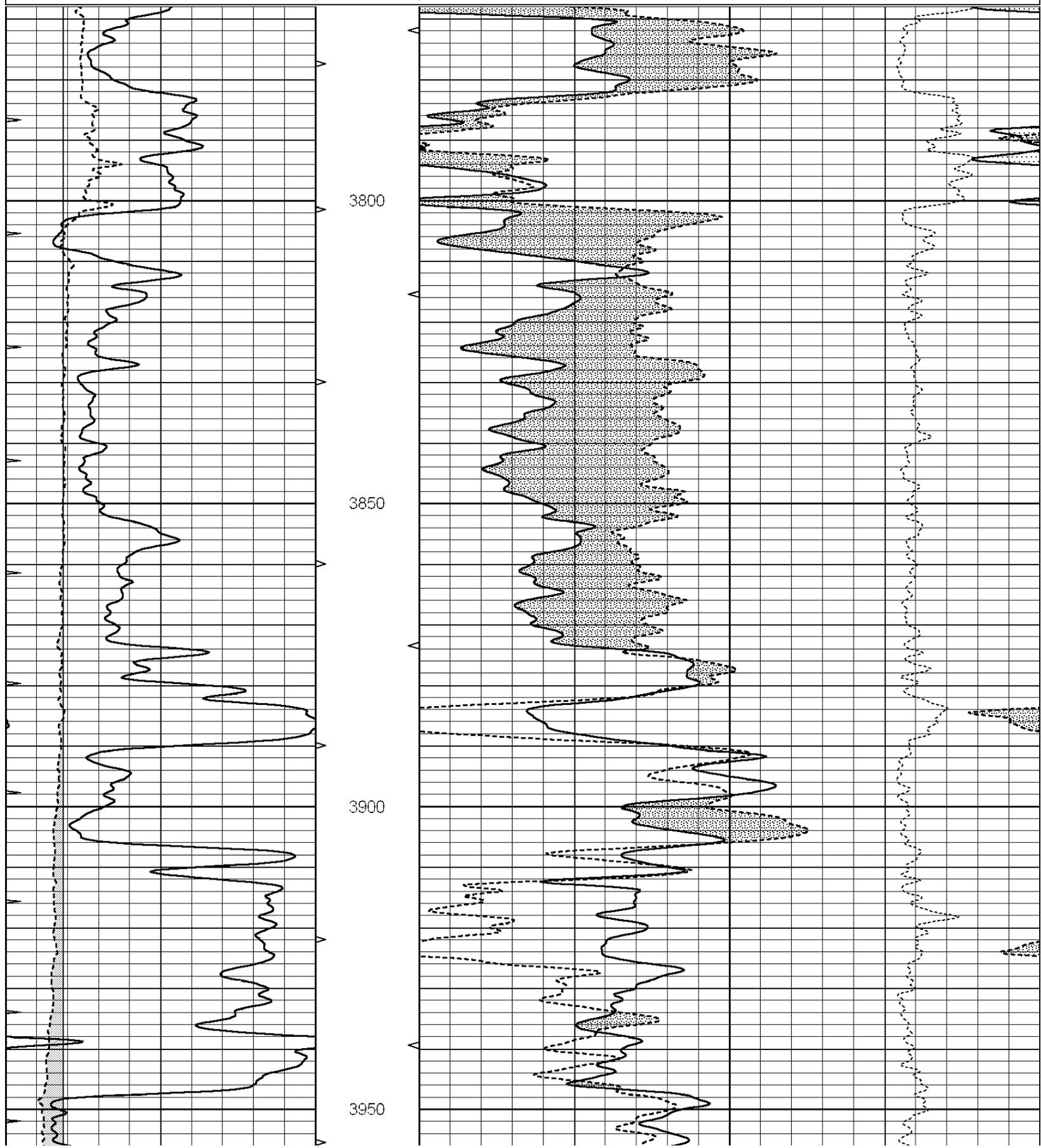
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0	MINMK	20	TBHV		-0.5 CORRECTION (g/cc)	0.5
			0 (ft3)	10		

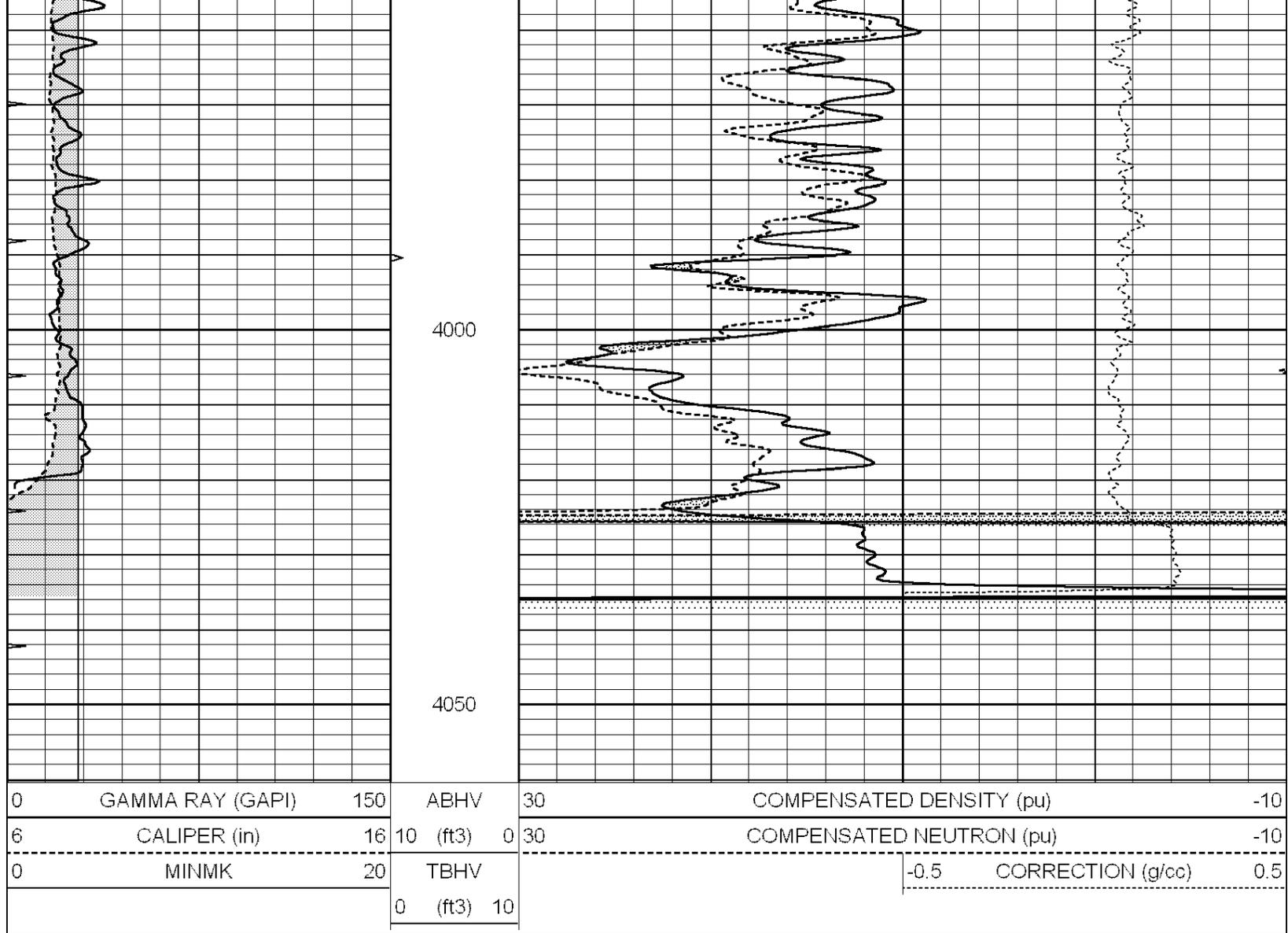




# DOLOMITE MATRIX 2.85

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		-0.5 CORRECTION (g/cc)	0.5
			0 (ft3)	10		





### Calibration Report

Database File: 24146ddn.db  
 Dataset Pathname: pass3.2  
 Dataset Creation: Tue Apr 29 13:56:27 2014 by Calc Open-Cased 090629

### Dual Induction Calibration Report

Serial-Model: DIL3-GEAR  
 Performed: Fri Apr 18 20:58:05 2014

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	500.000	6.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	540.000	5.000
Internal:	Zero			Zero			m	
Deep	0.002	0.645	V	0.000	400.000	mmho/m	560.000	-1.071
Medium	0.007	0.740	V	0.000	462.500	mmho/m	540.000	-4.000

### Compensated Density Calibration Report

Serial-Model: GEAR1-GEARHART  
 Source / Verifier: 147 / 147  
 Master Calibration Performed: Fri Apr 18 18:53:26 2014

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	1211.27	625.92	cps
Aluminum	2.590	g/cc	267.11	413.26	cps
Spine Angle = 74.64			Density/Spine Ratio = 0.561		
	Size		Reading		
Small Ring	8.20	in	5.18	V	
Large Ring	14.00	in	8.18	V	

Compensated Neutron Calibration Report

Serial Number: 080620  
 Tool Model: Probe

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: Fri Apr 18 20:57:05 2014

Calibrator Value: 1.0 GAPI

Background Reading: 0.0 cps  
 Calibrator Reading: 1.0 cps

Sensitivity: 0.4500 GAPI/cps