



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
PE LOG**

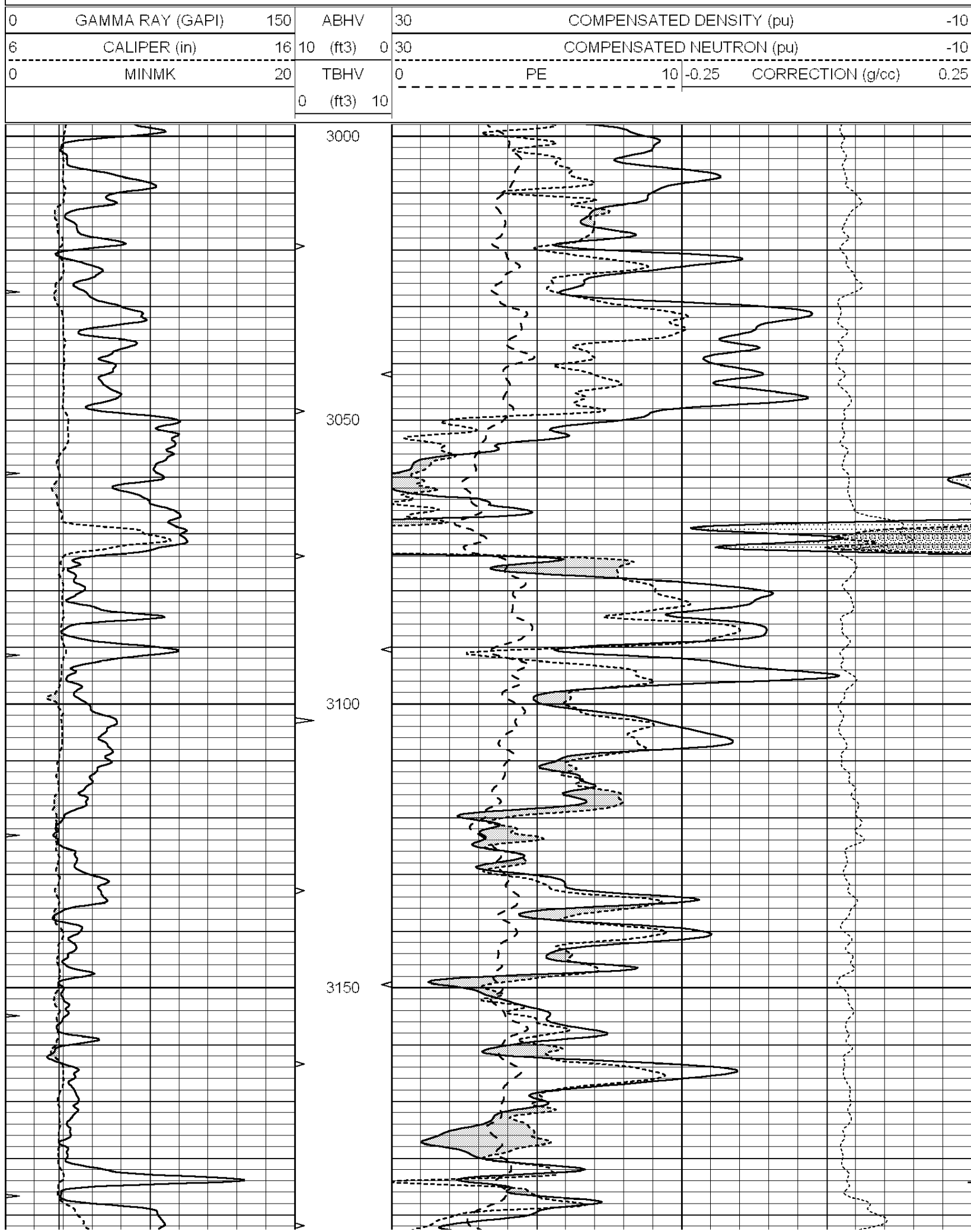
Company	EDISON OPERATING COMPANY, LLC	Company	EDISON OPERATING COMPANY, LLC
Well	RIXON #1-16	Well	RIXON #1-16
Field	WILDCAT	Field	WILDCAT
County	STAFFORD	County	STAFFORD
State	KANSAS	State	KANSAS
Location:	API # : 15-185-23843-0000 2300' FNL& 2000' FVL NE - SW - SE - NW	Other Services DIL MEL/SON	
Permanent Datum	GROUND LEVEL	Elevation	
Log Measured From	KELLY BUSHING 5' A.G.L.	K.B. 1923 D.F. 1921 G.L. 1918	
Drilling Measured From	KELLY BUSHING		
SEC 16 TWP 24S RGE 13W			
Date	12/13/13		
Run Number	ONE		
Depth Driller	4218		
Depth Logger	4219		
Bottom Logged Interval	4195		
Top Log Interval	3000		
Casing Driller	8 5/8"@325'		
Casing Logger	300'		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 14,300 PPM	
Density / Viscosity	9.4/56		
pH / Fluid Loss	9.5/14.4		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	0.28@82F		
Rmf @ Meas. Temp	0.21@82F		
Rmc @ Meas. Temp	0.34@82F		
Source of Rmf / Rmc	MEASUREMENT		
Rim @ BHT	0.19@118F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	118F		
Equipment Number	860		
Location	HAYS, KANSAS		
Recorded By	JEFF GRONEWEG		
Witnessed By	ADAM NICHSWONGER		

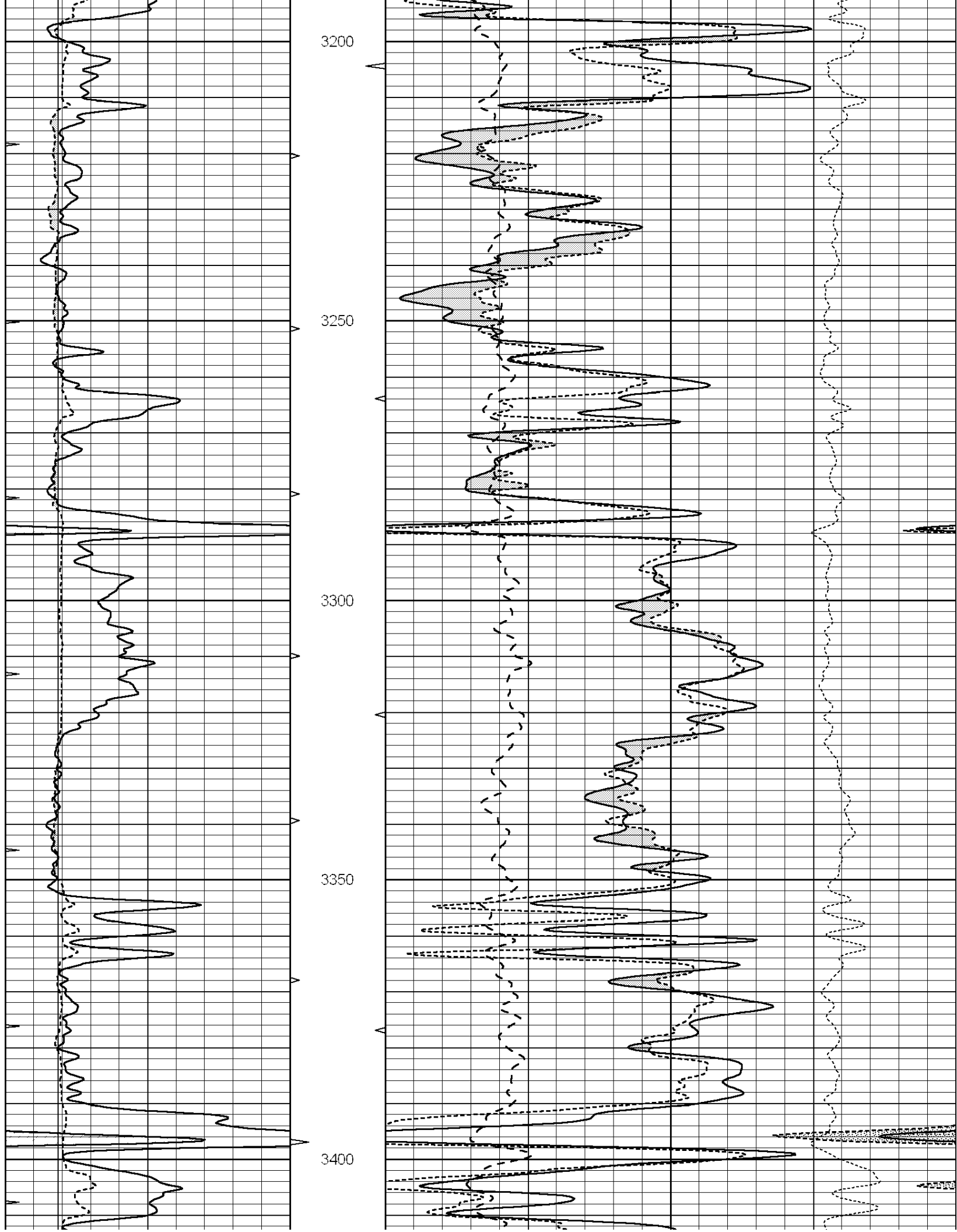
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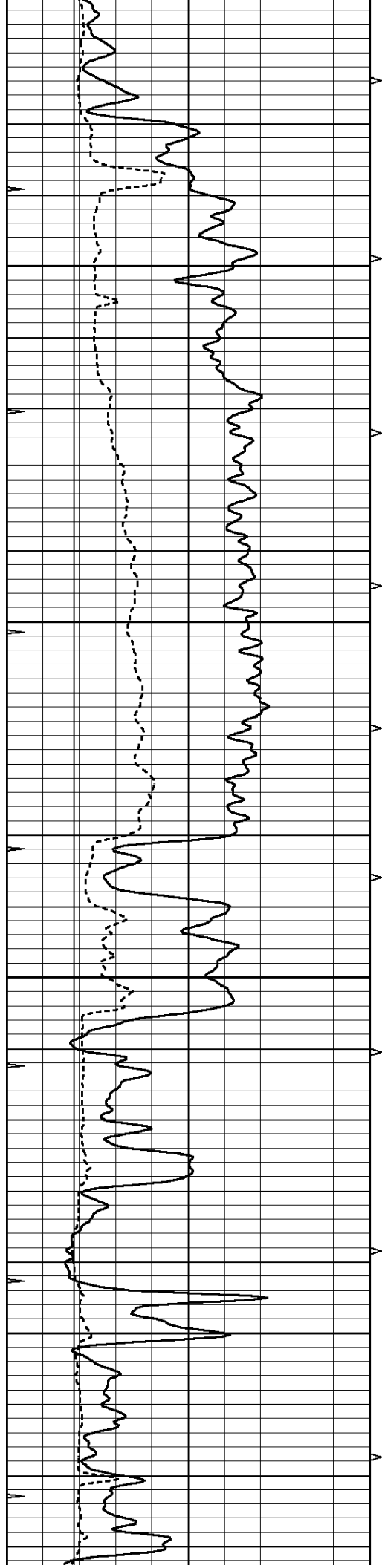
All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, 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 "NABORS" HAYS, KANSAS (785) 628-6395
DIRECTIONS
ST. JOHN, KS - SOUTH TO INTERSECTION OF HWY 281 & 50 - 1 MILE WEST
1/2 NORTH - WEST INTO





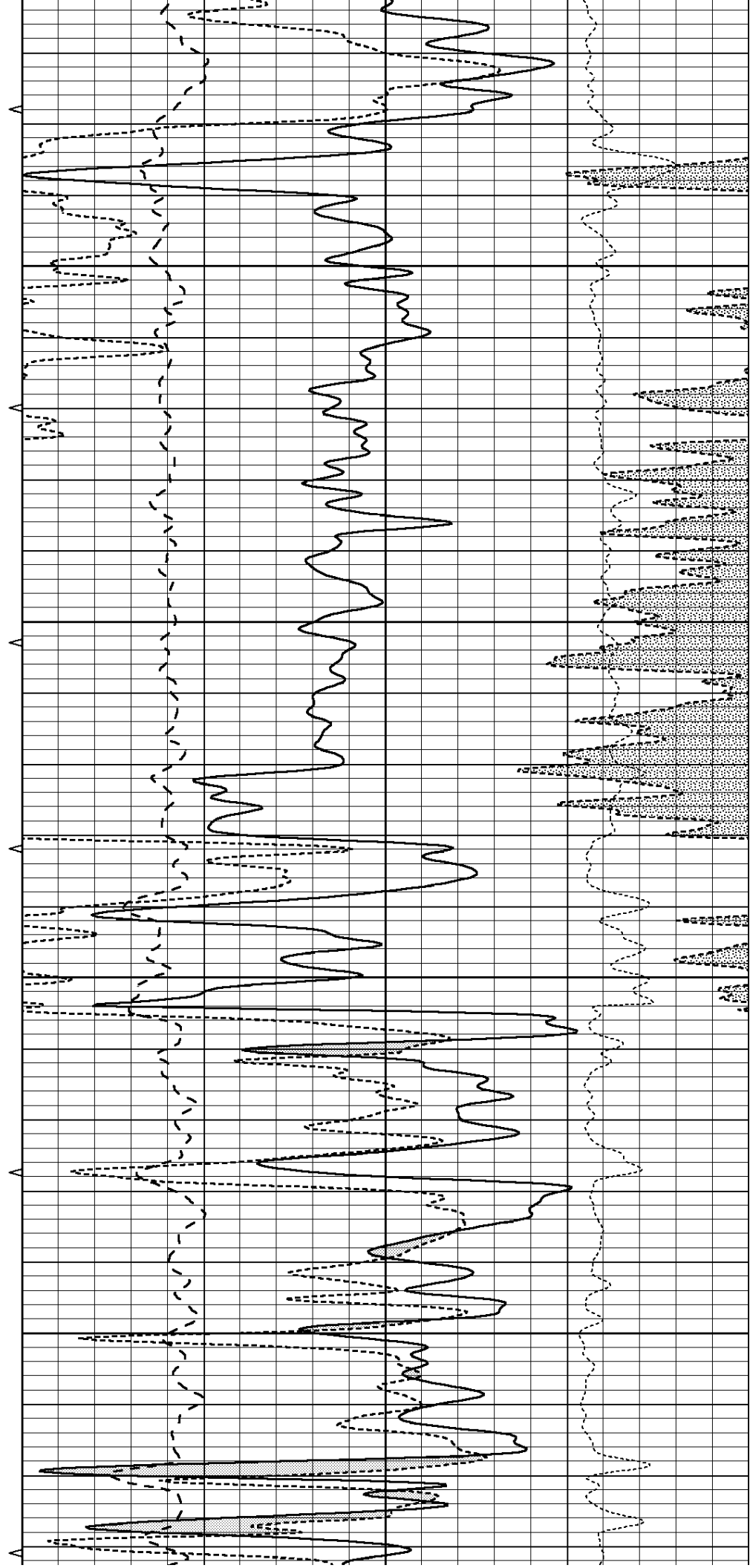


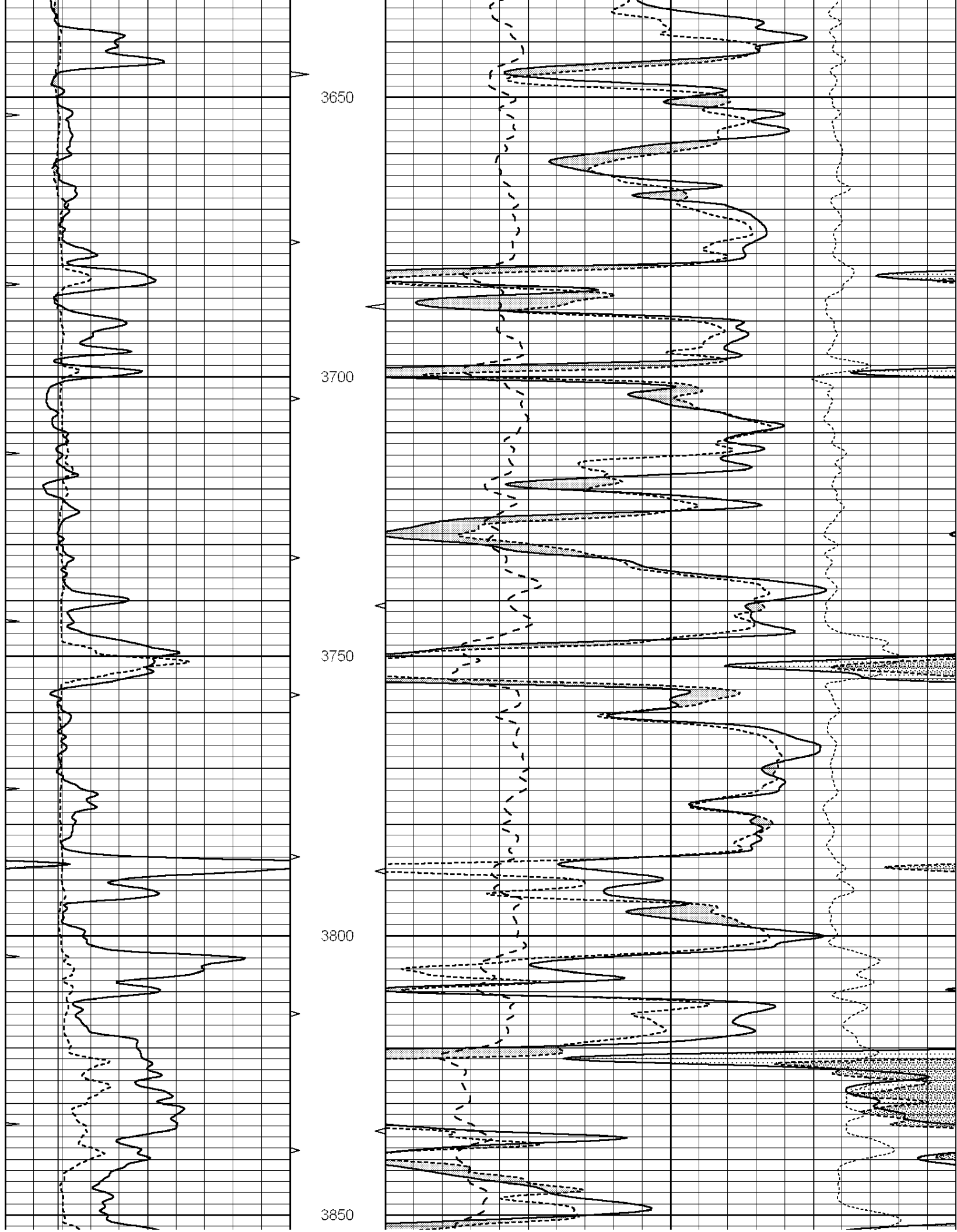
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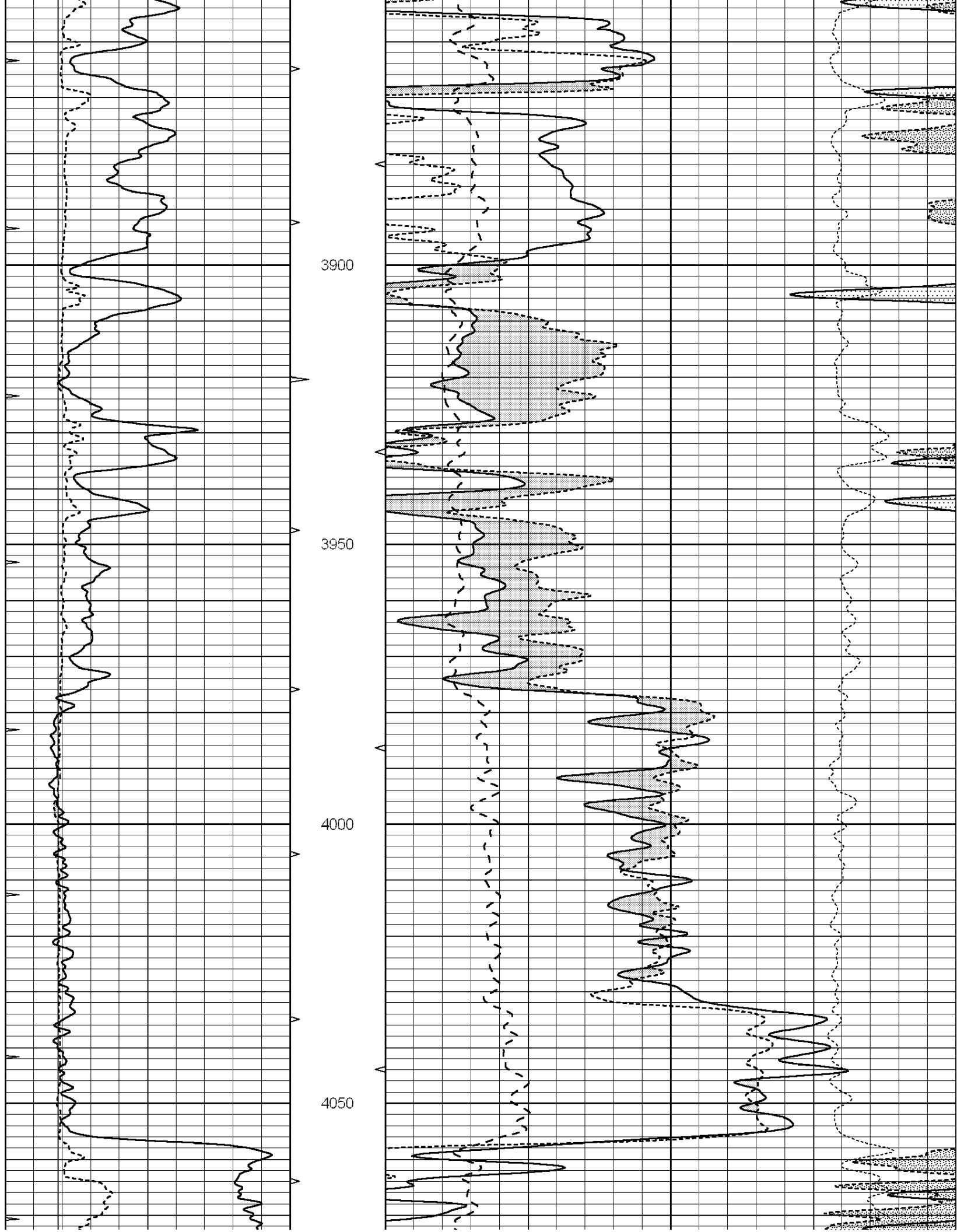
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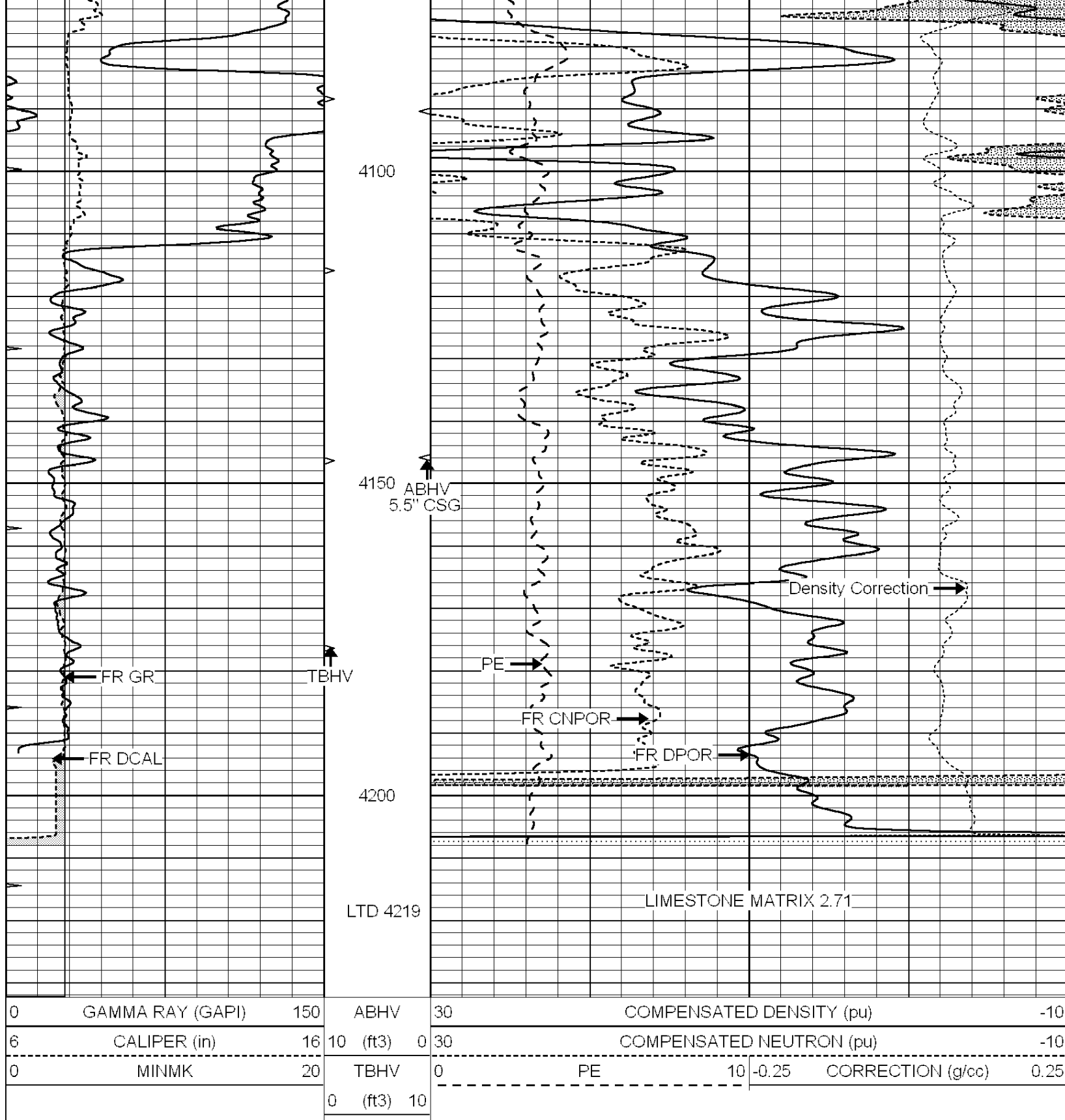
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3600





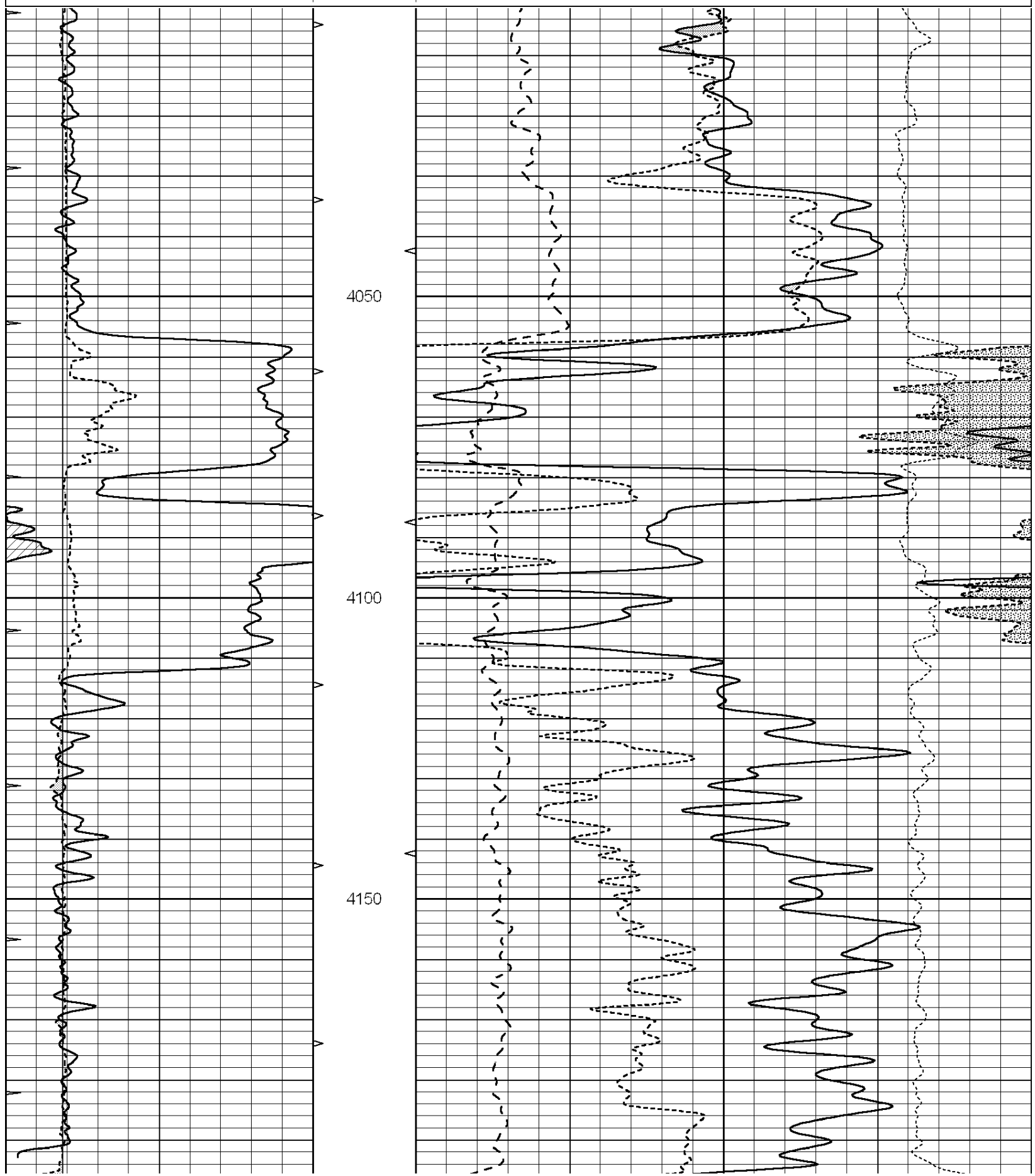


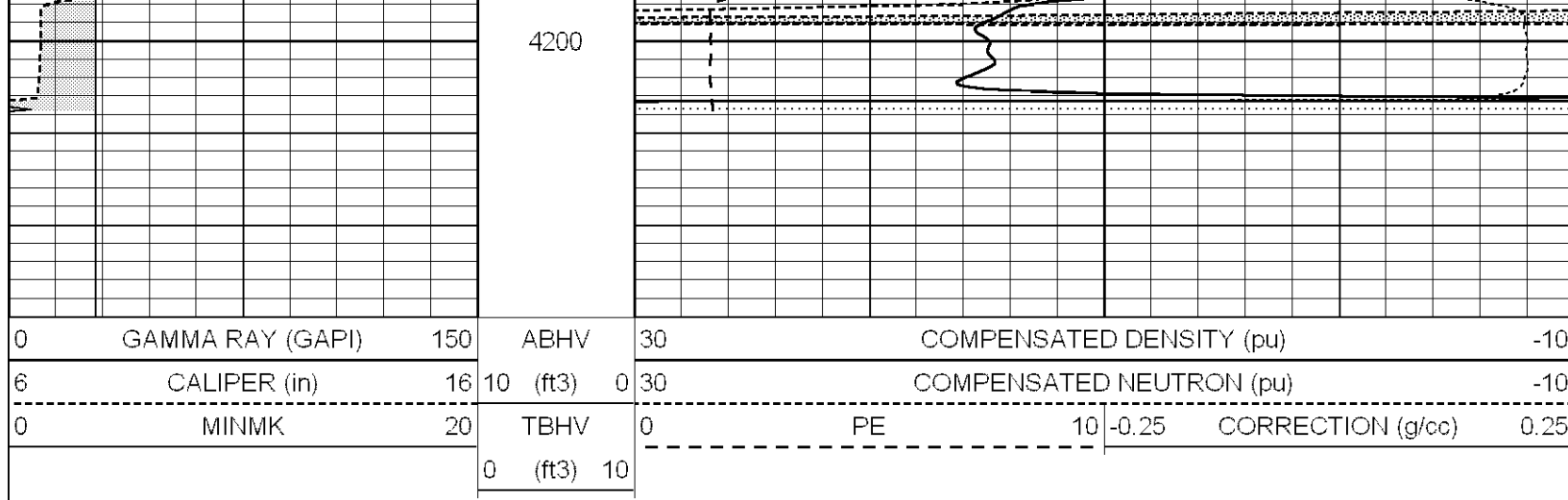


Charted by:

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	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3) 10			

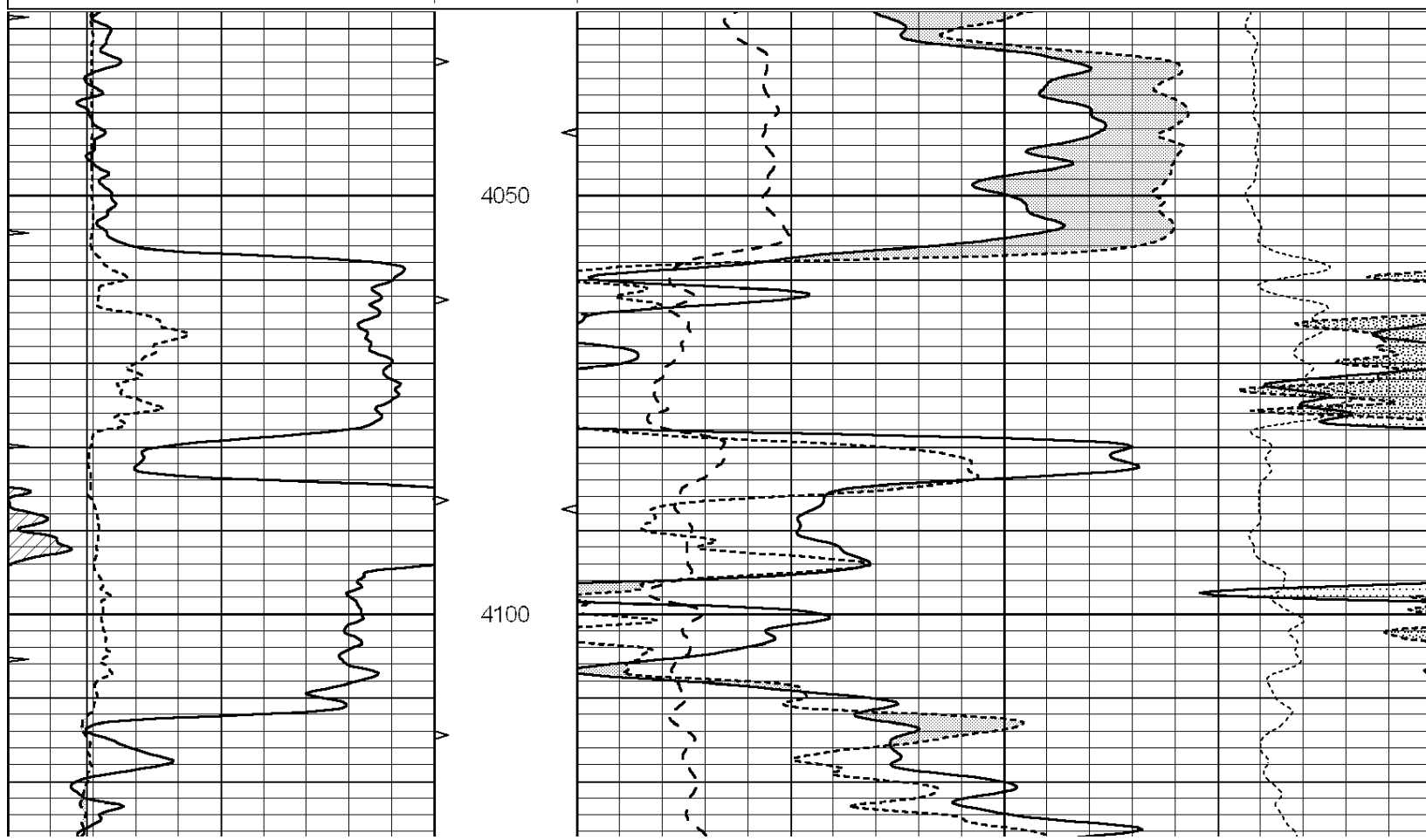
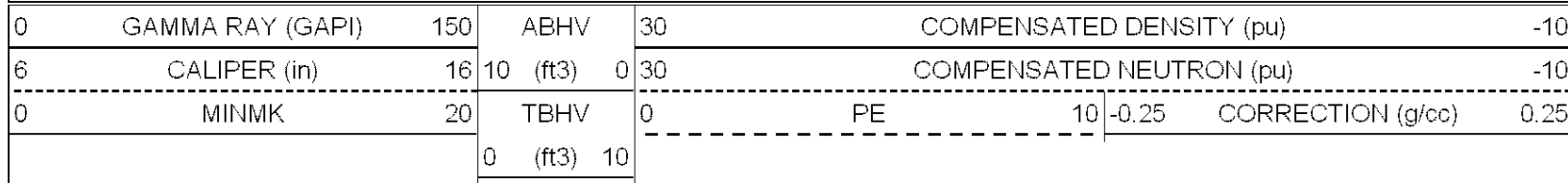


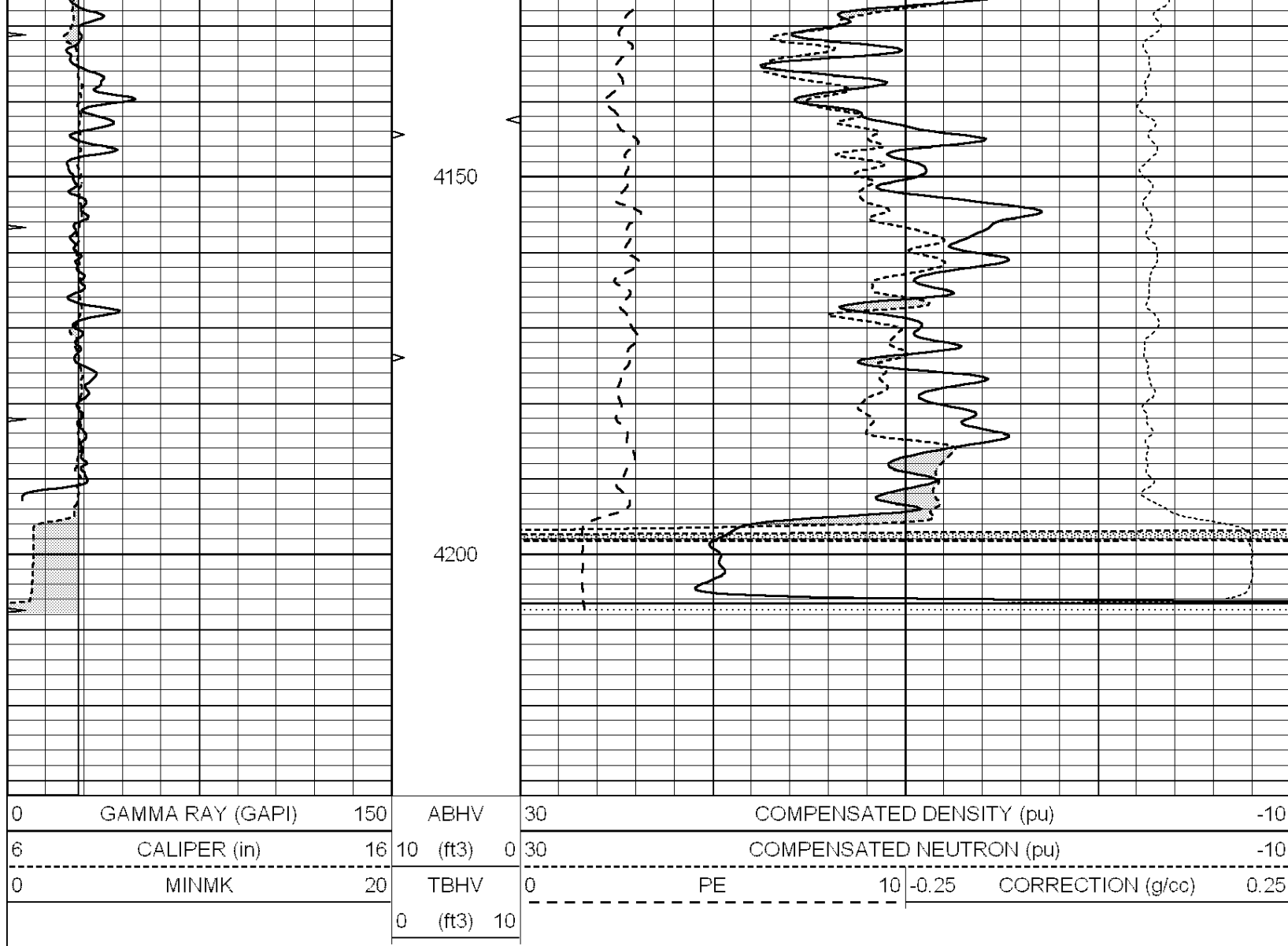


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DOLOMITE MATRIX

Database File: 22205pe.db
Dataset Pathname: pass2.3.d
Presentation Format: ldt_neu
Dataset Creation: Fri Dec 13 06:24:16 2013
Charted by: Depth in Feet scaled 1:240





Calibration Report

Database File: 22205pe.db
 Dataset Pathname: pass3.2
 Dataset Creation: Fri Dec 13 07:18:38 2013

Dual Induction Calibration Report

Serial-Model: DIL3-GEAR
 Performed: Sun Nov 24 23:25:37 2013

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.011	0.656	V	0.000	400.000	mmho/m	500.000	5.000
Medium	0.013	0.740	V	0.000	462.500	mmho/m	580.000	5.000
Internal:	Zero	Cal		Zero	Cal		m	b
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

Litho Density Calibration Report
 Serial: 001 Model: PRB
 Performed Tue Jul 03 11:37:32 2007

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2170.6	9915.1	3855.3	11241.6	cps
Window 2	2029.2	8716.5	3483.5	9750.8	cps
Window 3	1665.0	4929.7	2356.8	5332.0	cps
Window 4	493.3	492.1	490.0	486.8	cps
Long Space	0.0	6687.3	1454.3	7721.6	cps
Short Space	1.9	2149.3	1403.9	2354.5	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.556
Spine Angle	: 74.4	Spine Slope	: 3.583	Spine Intercept	: -18.7
Caliper	Readings	Reference			
Low Ref	3.5	8.3			
High Ref	5.4	14.0			
	Gain: 2.9		Offset: -1.2		
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:	Sun Dec 08 11:23:31 2013			
	Calibrator Value:	1.0	GAPI		
	Background Reading:	0.0	cps		
	Calibrator Reading:	1.0	cps		
	Sensitivity:	0.4000	GAPI/cps		