

COMPENSATED
DENSITY / NEUTRON
PE LOG

Company	DIXON OPERATING COMPANY, LLC.		
Well	#1-9 SALEM		
Field	RATTLESNAKE CREEK		
County	STAFFORD	State	KANSAS
Location:	APL # : 15-185-24021-0000 4290' FSL & 3630' FEL SW - NE - NW		Other Services DIL/MEL
Permanent Datum	GROUND LEVEL	Elevation	1848
Log Measured From	KELLY BUSHING 11' A.G.L.		
Drilling Measured From	KELLY BUSHING		
SEC 9 TWP 23S RGE 12W			
Date	7/14/18		
Run Number	ONE		
Depth Driller	3810		
Depth Logger	3812		
Bottom Logged Interval	3788		
Top Log Interval	2700		
Casing Driller	8 5/8"@309'		
Casing Logger	309		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8,400 PPM	
Density / Viscosity	8.9/68		
pH / Fluid Loss	11.0/8.0		
Source of Sample	FLOWLINE		
Rim @ Meas. Temp	.400@90F		
Rinf @ Meas. Temp	.300@90F		
Rmc @ Meas. Temp	.480@90F		
Source of Rinf / Rmc	MEASUREMENT		
Rim @ BHT	.316@114F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	9:30 A.M.		
Maximum Recorded Temperature	114F		
Equipment Number	922339		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	BRUCE A. REED		

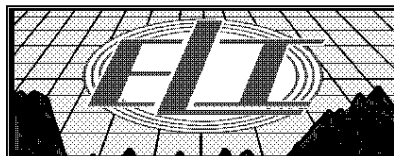
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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on 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 HAYS, KANSAS (785) 628-6395
DIRECTIONS

ST. JOHN, KS., N. TO "RD. NE70", 5E. TO "50TH RD.", 1N., 1/4E. TO TANK BATTERY, S. & E. INTO

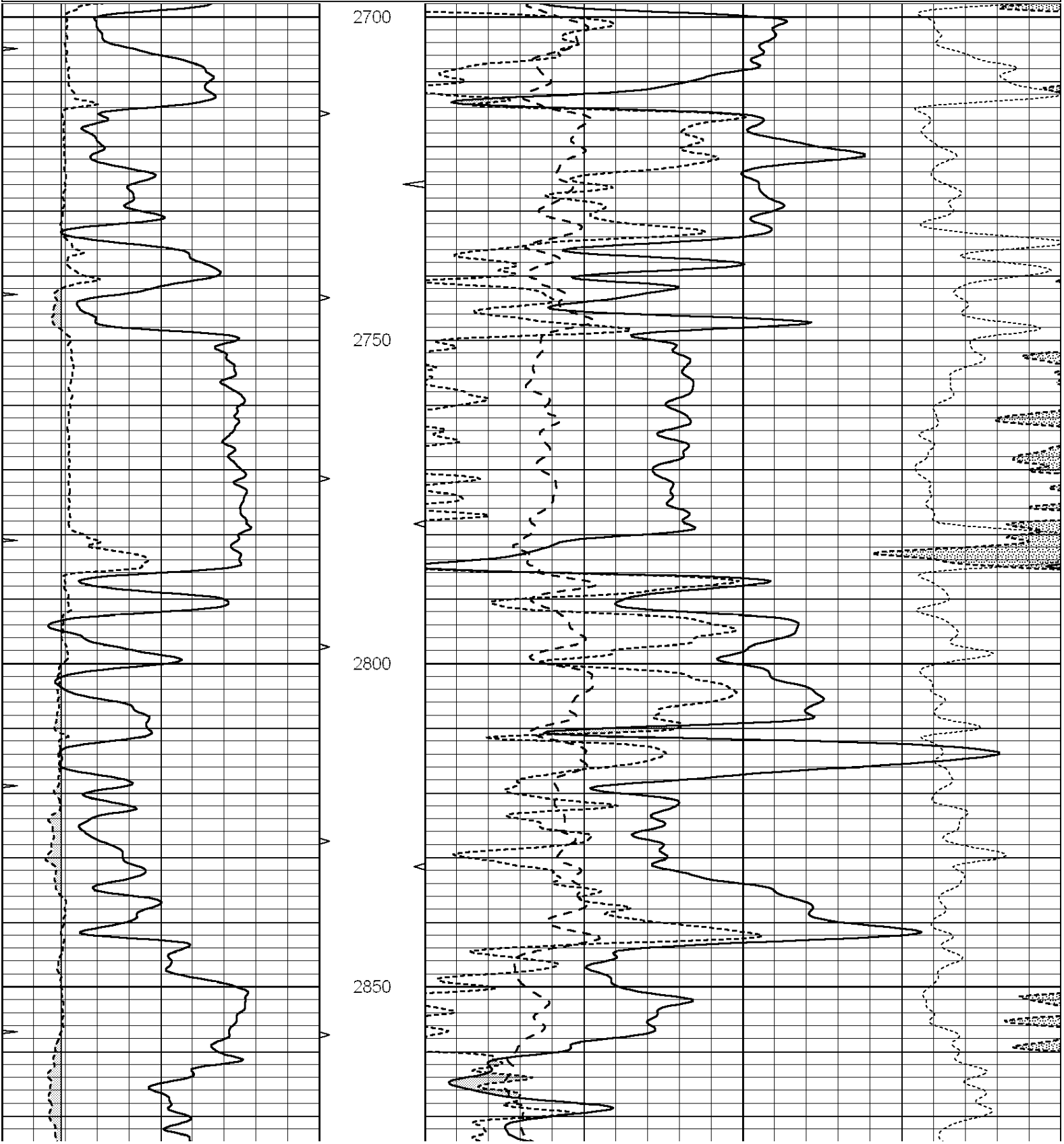


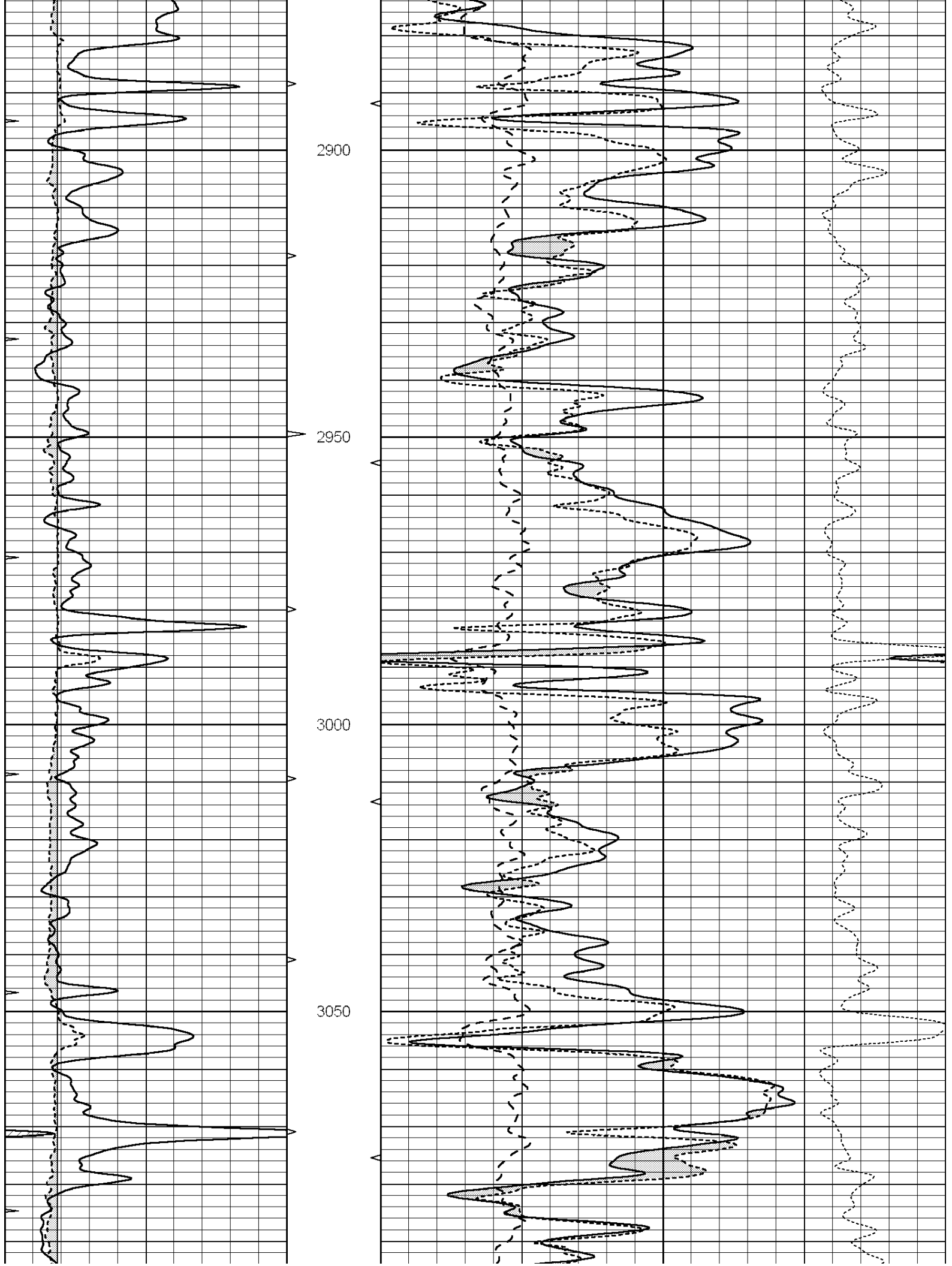
MAIN SECTION

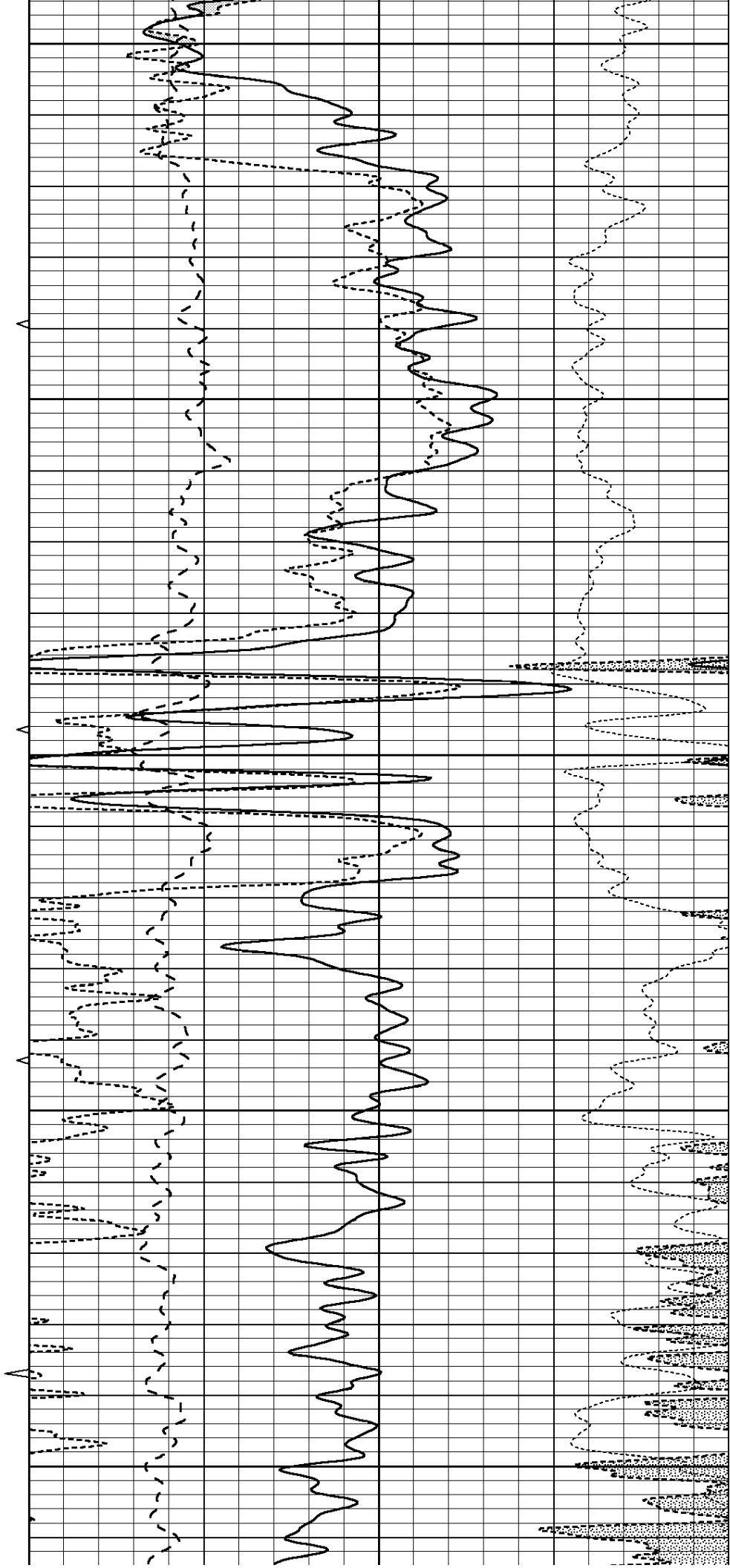
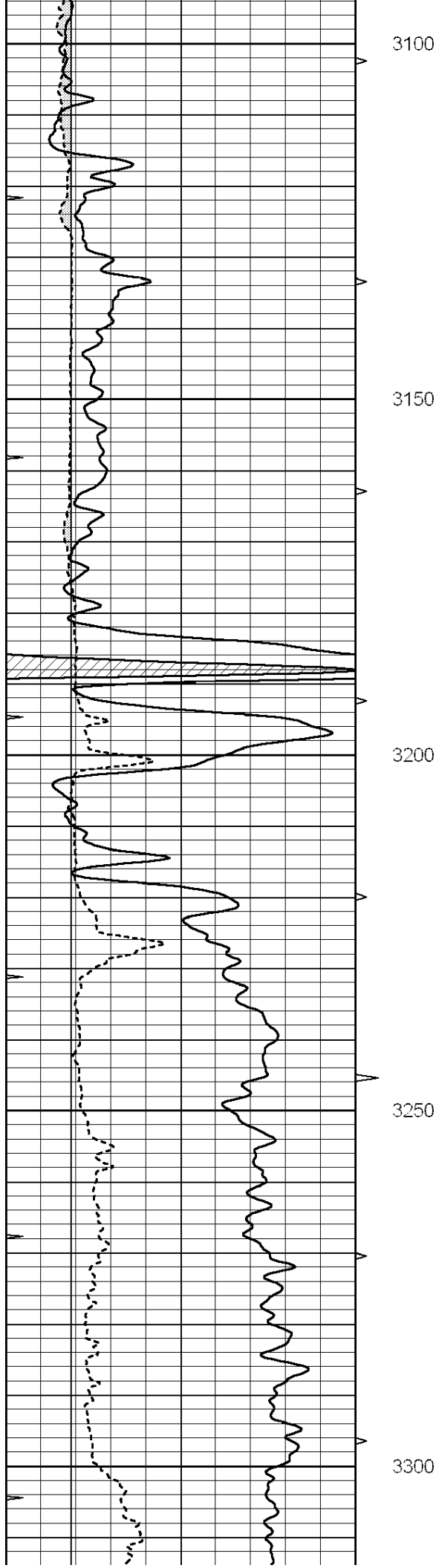
Database File: 2661pe.db
Dataset Pathname: pass3.5
Presentation Format: ldt_neu
Dataset Creation: Sat Jul 14 10:44:39 2018
Charted by: Depth in Feet scaled 1:240

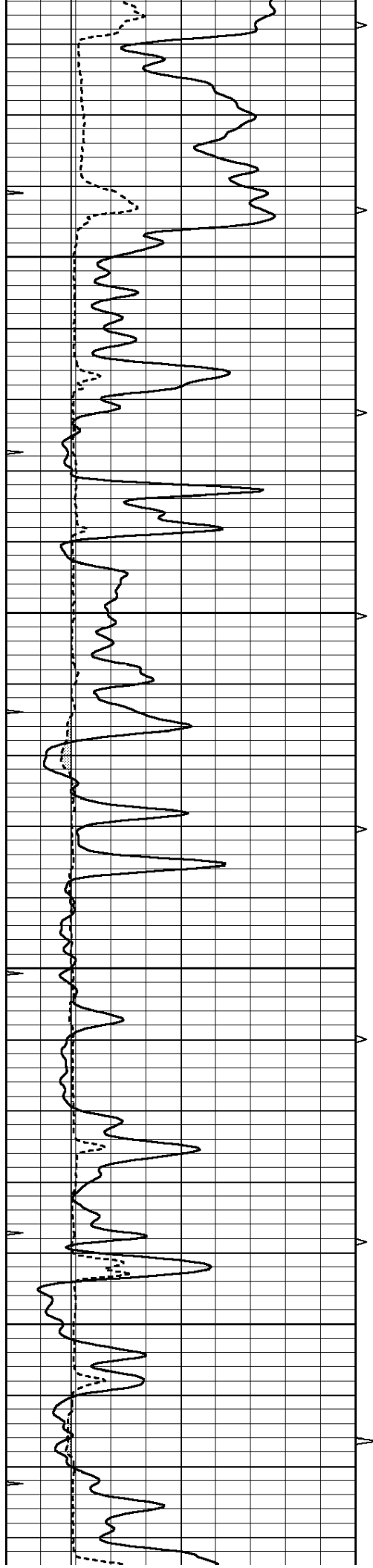
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)			-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)			-10

0	MINMK	20	TBHV	0	PE	10	-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10	-----				







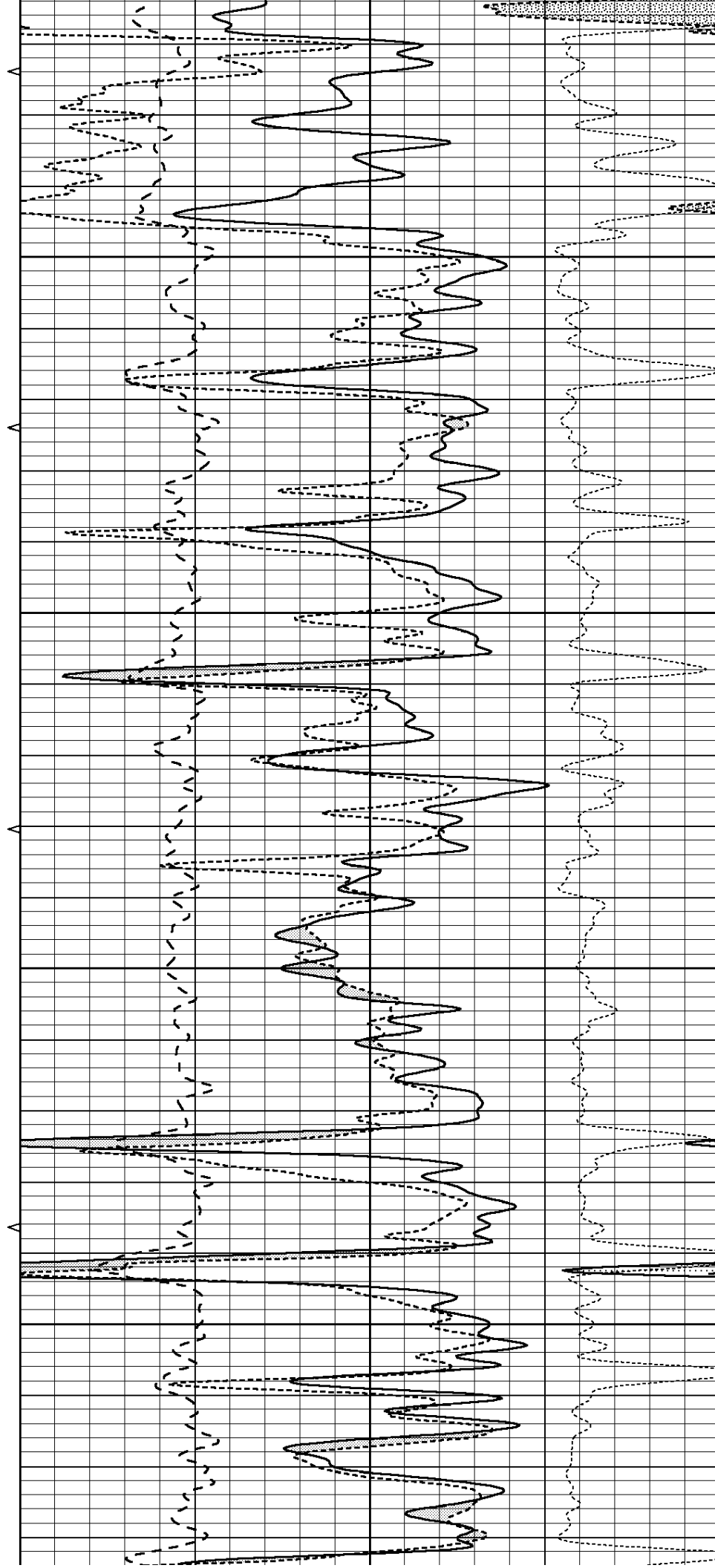


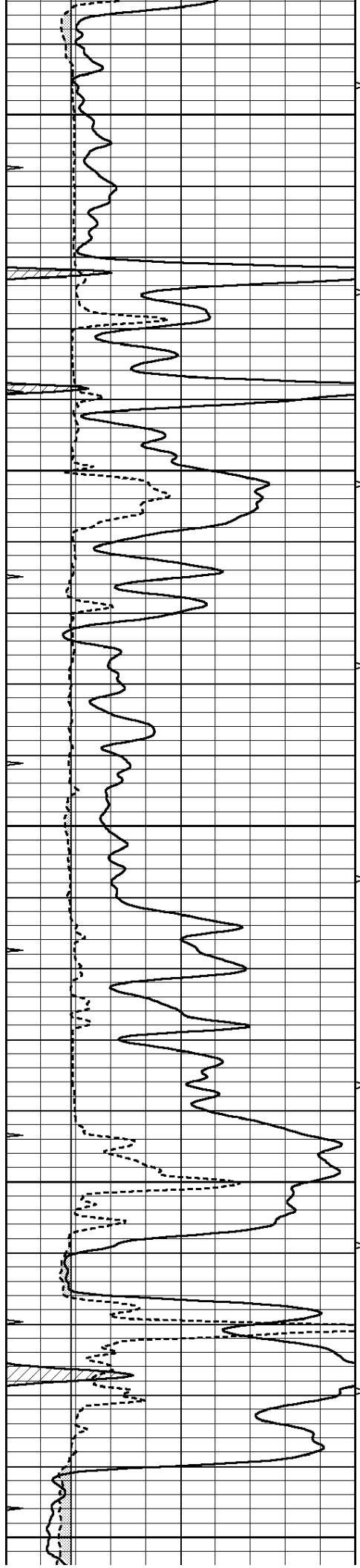
3350

3400

3450

3500





3550

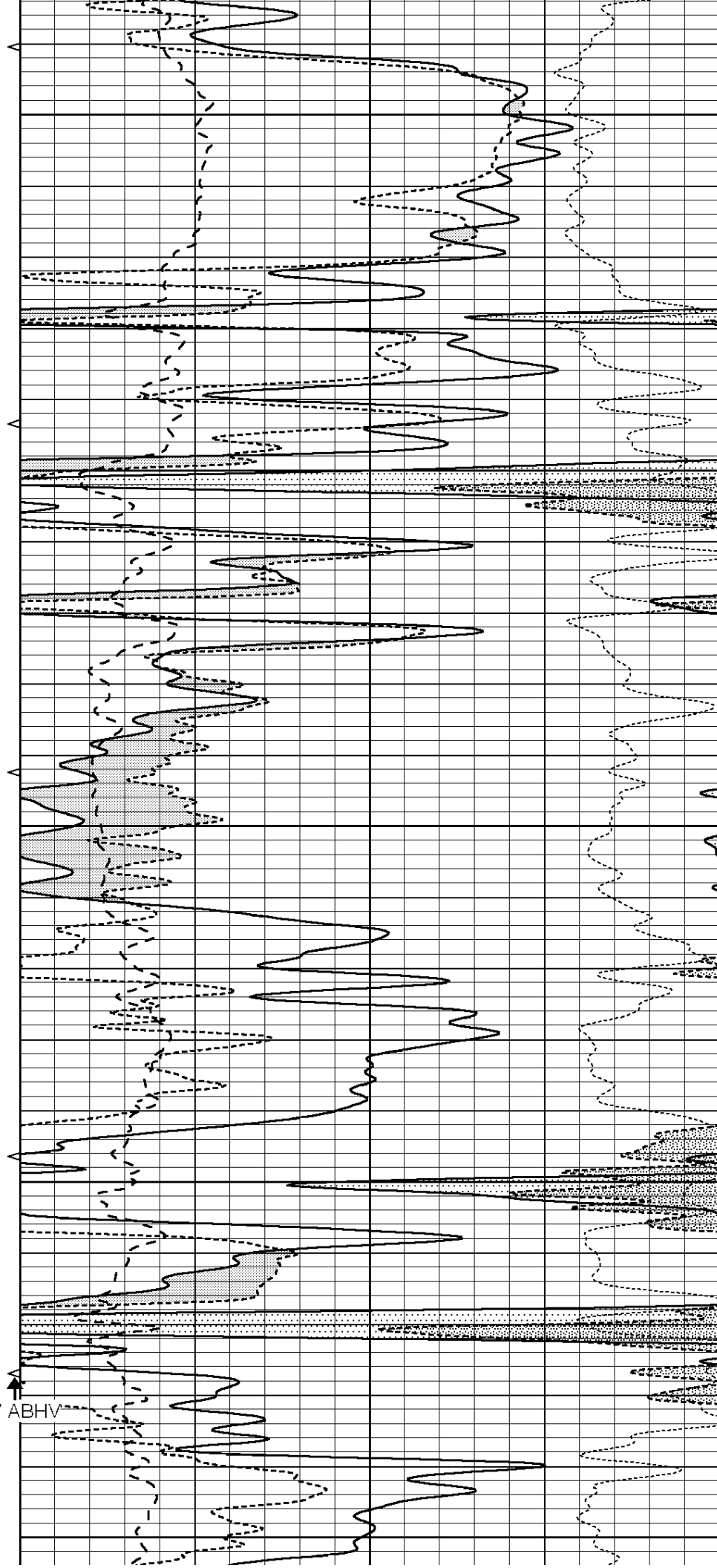
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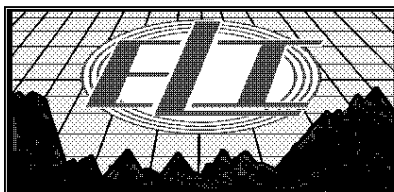
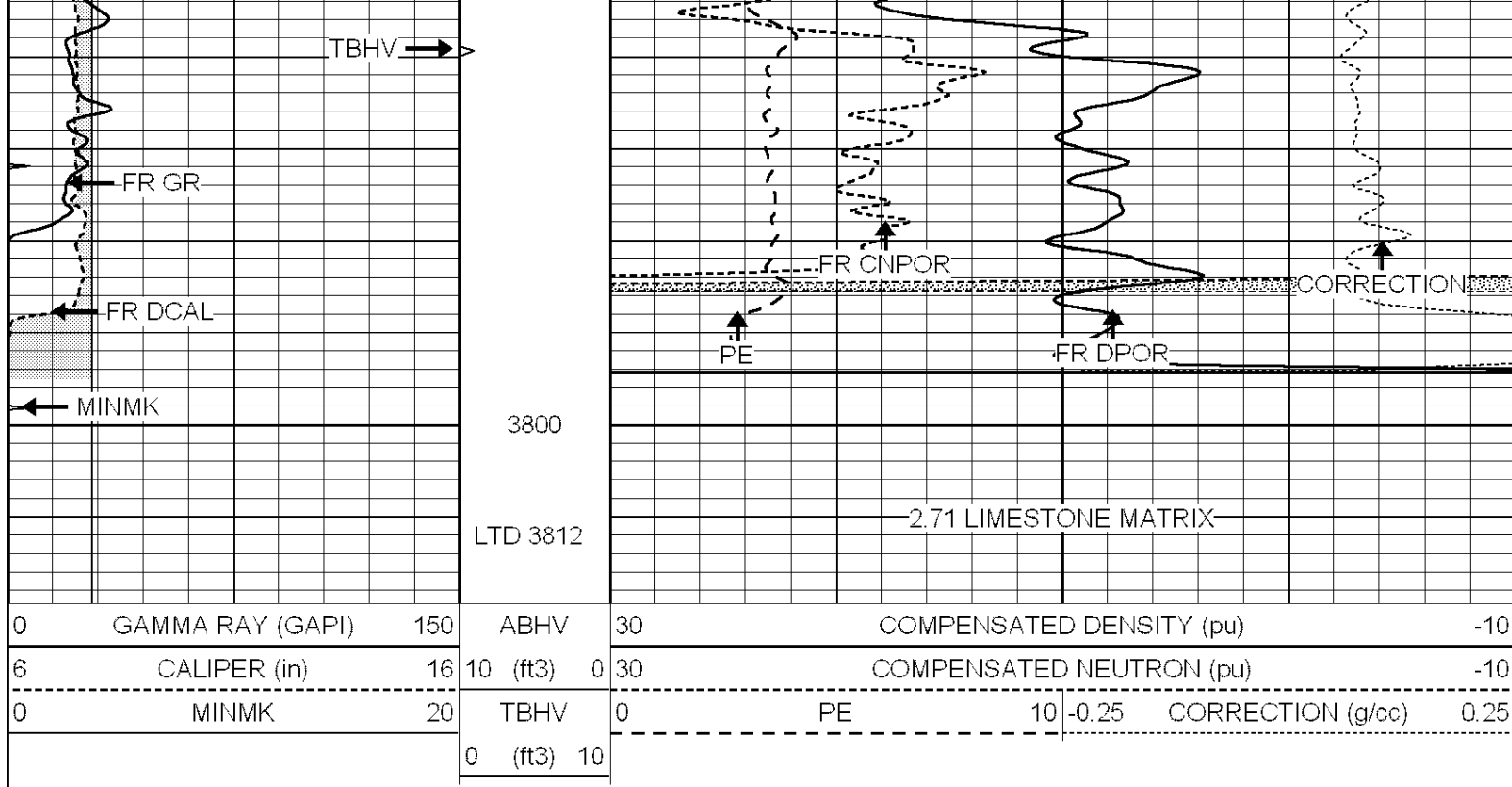
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3700

5.5" ABHV

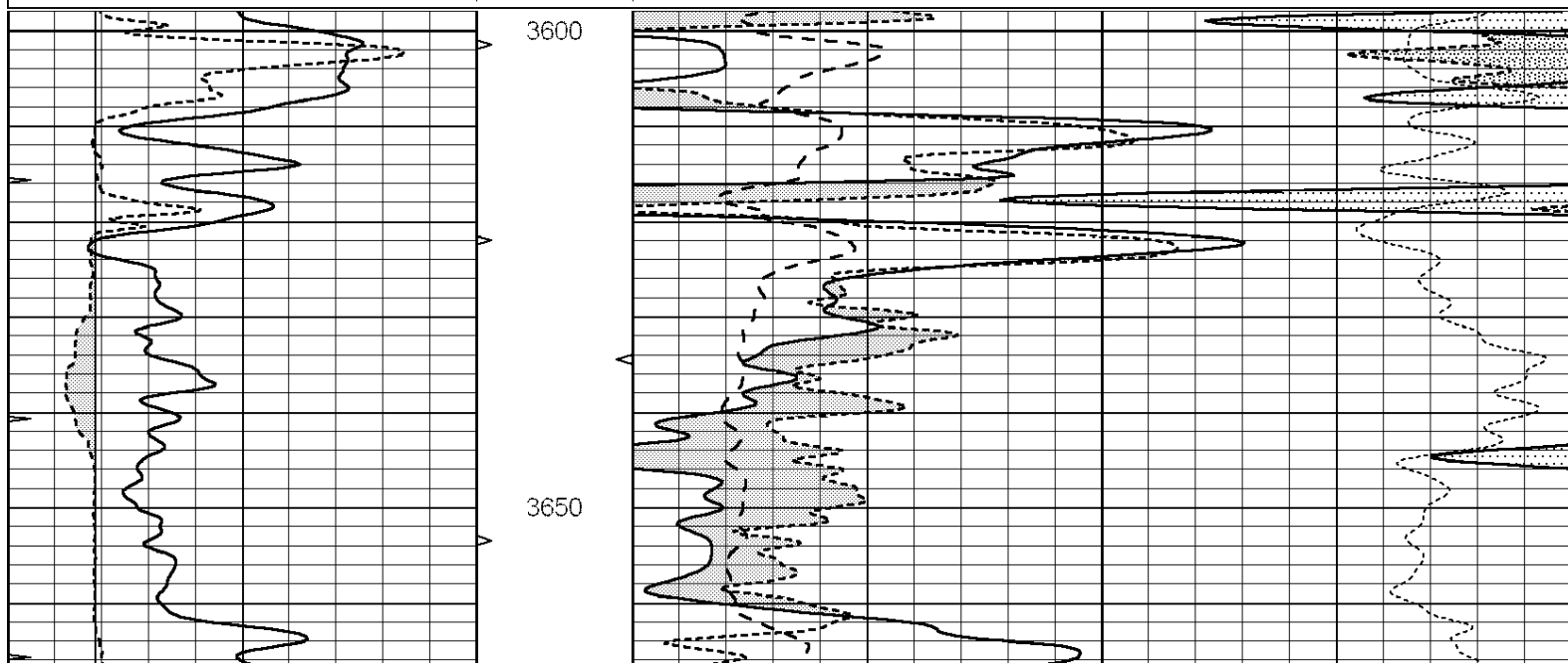
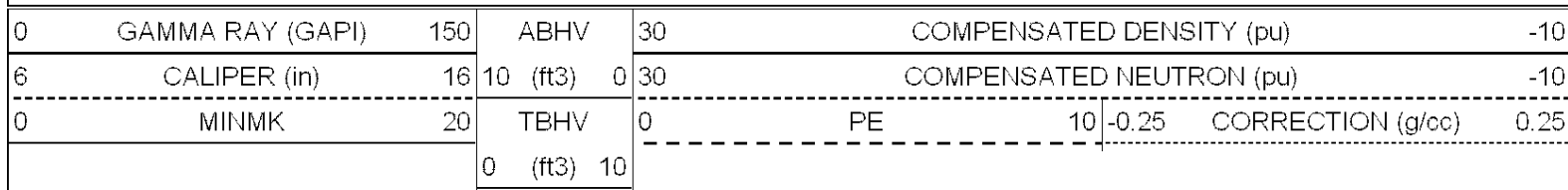
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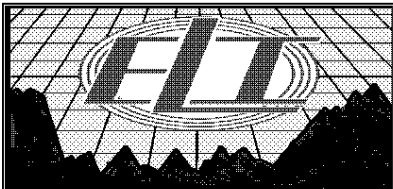
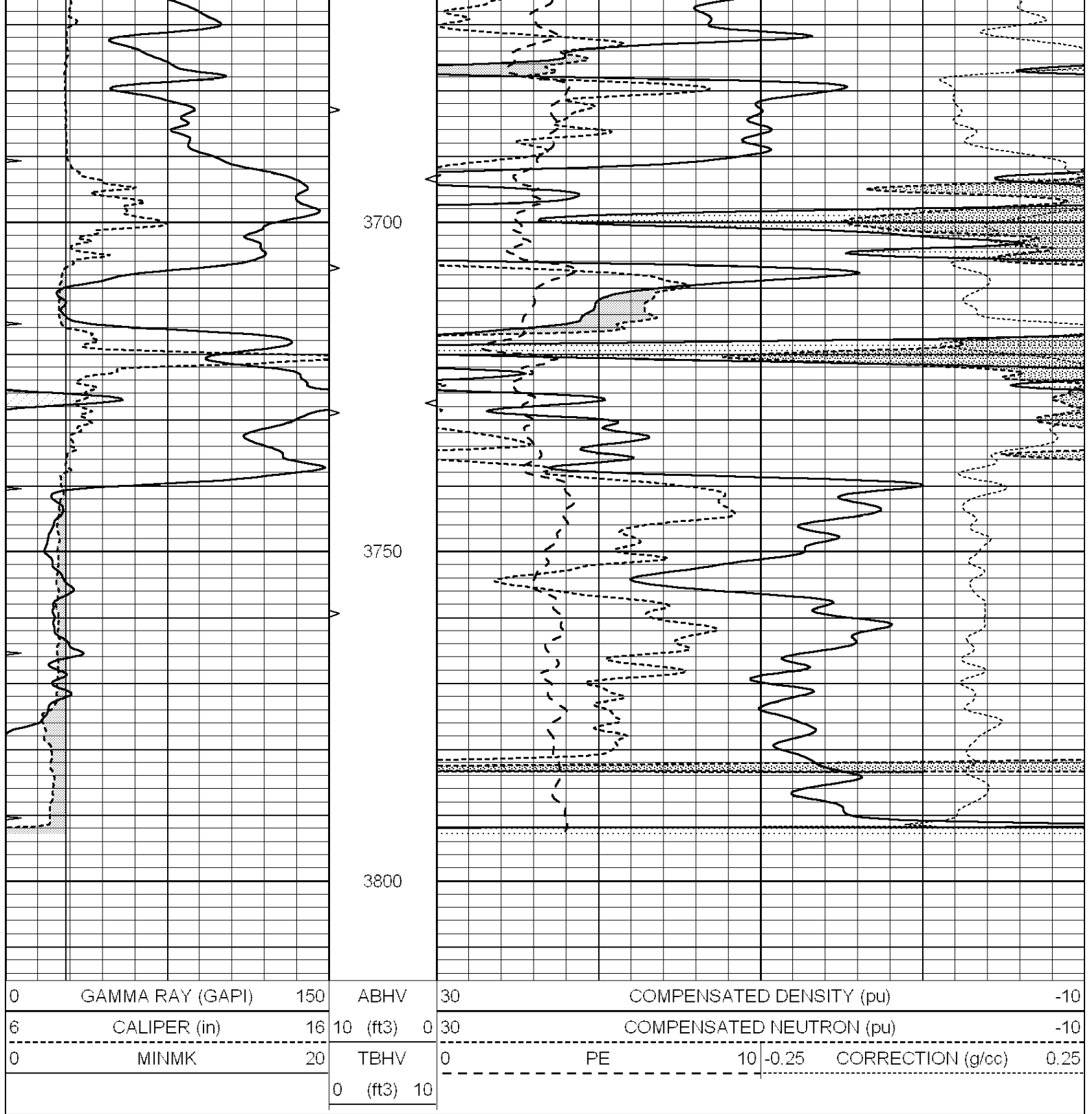




REPEAT SECTION

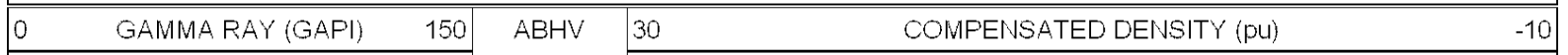
Database File: 2661pe.db
 Dataset Pathname: pass2.3
 Presentation Format: ldt_neu
 Dataset Creation: Sat Jul 14 09:30:19 2018 by Calc SOC 120430
 Charted by: Depth in Feet scaled 1:240

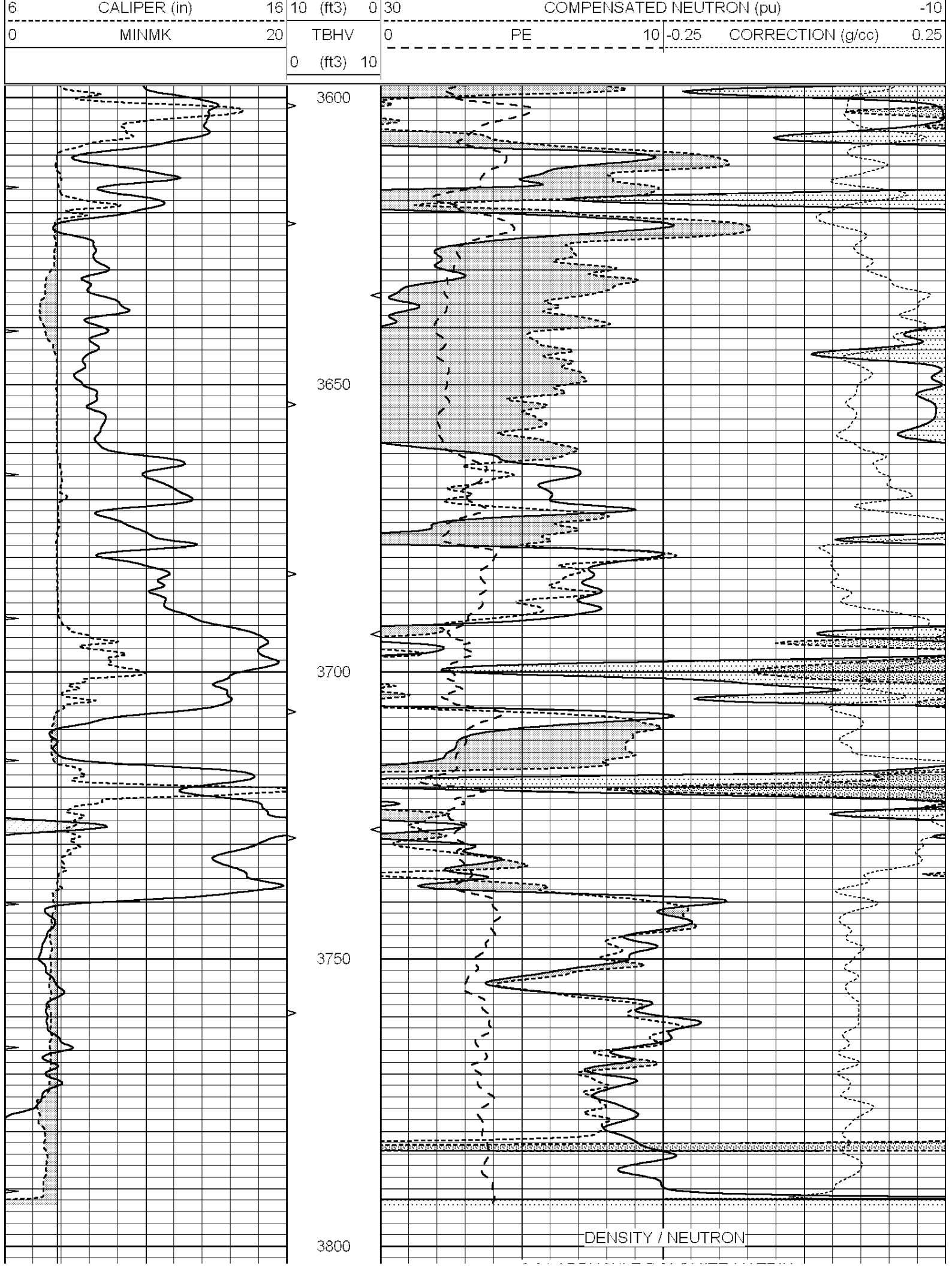




DOLOMITE MATRIX

Database File: 2661pe.db
Dataset Pathname: pass2.3D
Presentation Format: ldt_neu
Dataset Creation: Sat Jul 14 09:33:22 2018
Charted by: Depth in Feet scaled 1:240





Master Calibration		Performed Mon Aug 21 11:27:42 2017		
	Background	Magnesium	Aluminum	Sandstone
Window 1	837.1	10632.5	2945.1	12110.1
Window 2	772.0	9117.4	2570.1	10197.3
Window 3	691.7	1000.0	1121.0	5042.0

Window 3	631.7	4669.0	1481.9	5042.9	cps
Window 4	187.0	187.5	185.9	189.9	cps
Long Space	0.0	8345.4	1798.1	9425.3	cps
Short Space	1.1	1927.9	1285.9	2050.2	cps
Rho		1.7100	2.5960	1.3800	g/cc
Pe		0.0000	2.5700	1.5500	
Rib Angle	: 45.2	Rib Slope	: 1.008	Density/Spine Ratio	: 0.558
Spine Angle	: 75.2	Spine Slope	: 3.790	Spine Intercept	: -19.6

Before Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

After Survey Verification			Performed Wed Dec 31 18:00:00 1969		
Window 1	0.0	0.0	0.0	0.0	cps
Window 2	0.0	0.0	0.0	0.0	cps
Window 3	0.0	0.0	0.0	0.0	cps
Window 4	0.0	0.0	0.0	0.0	cps
Long Space	0.0	0.0	0.0	0.0	cps
Short Space	0.0	0.0	0.0	0.0	cps
Measured Rho		0.0000	0.0000	0.0000	g/cc
Measured Correction		0.0000	0.0000	0.0000	g/cc
Measured Pe			0.0000	0.0000	

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Compensated Neutron Calibration Report					
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Serial Number:		070808			
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					
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Serial Number:		070558			
Tool Model:		OPEN_GR			
Performed:		Wed May 31 00:09:32 2017			
Calibrator Value:		1.0	GAPI		
Background Reading:		0.0	cps		

Calibrator Reading:

1.0

cps

Sensitivity:

0.2800

GAPI/cps