



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

**COMPENSATED
DENSITY / NEUTRON
PE LOG**

Company		VALHALLA WXPLORATION, LLC.	
Well		BARCLAY #1-3	
Field		PRITCHARD	
County		STAFFORD	
State		KANSAS	
Company		VALHALLA EXPLORATION, LLC.	
Well		BARCLAY #1-3	
Field		PRITCHARD	
County		STAFFORD	
State		KANSAS	
Location:		API # : 15-185-23846-0000	
Permanent Datum		GROUND LEVEL	
Log Measured From		KELLY BUSHING 8' A.G.L.	
Drilling Measured From		KELLY BUSHING	
SEC 3 TWP 21S RGE 14W		Elevation	
1534' FNL & 2216' FWL		DIL/MEL	
		SONIC	
Date		1/9/14	
Run Number		ONE	
Depth Driller		3760	
Depth Logger		3761	
Bottom Logged Interval		3737	
Top Log Interval		2800	
Casing Driller		8 5/8"@825'	
Casing Logger		824	
Bit Size		7 7/8"	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.2/56	
pH / Fluid Loss		11.0/7.6	
Source of Sample		FLOWLINE	
Rim @ Meas. Temp		.670@62F	
Rmf @ Meas. Temp		.503@62F	
Rmc @ Meas. Temp		.804@62F	
Source of Rmf / Rmc		MEASUREMENT	
Rim @ BHT		.364@114F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		6:15 A.M.	
Maximum Recorded Temperature		114F	
Equipment Number		4854	
Location		HAYS, KANSAS	
Recorded By		JEFF LUEBBERS	
Witnessed By		DEREK PATTERSON	

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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

GREAT BEND, KS., 7S. ON HWY 281 TO (STAFFORD COUNTY LINE) 6W. ON "RD. 70", S. INTO



NABORS

**COMPLETION
& PRODUCTION**

MAIN SECTION

Database File:

22232pe.db

Dataset Pathname:

pass3.4

Presentation Format:

ldt_neu

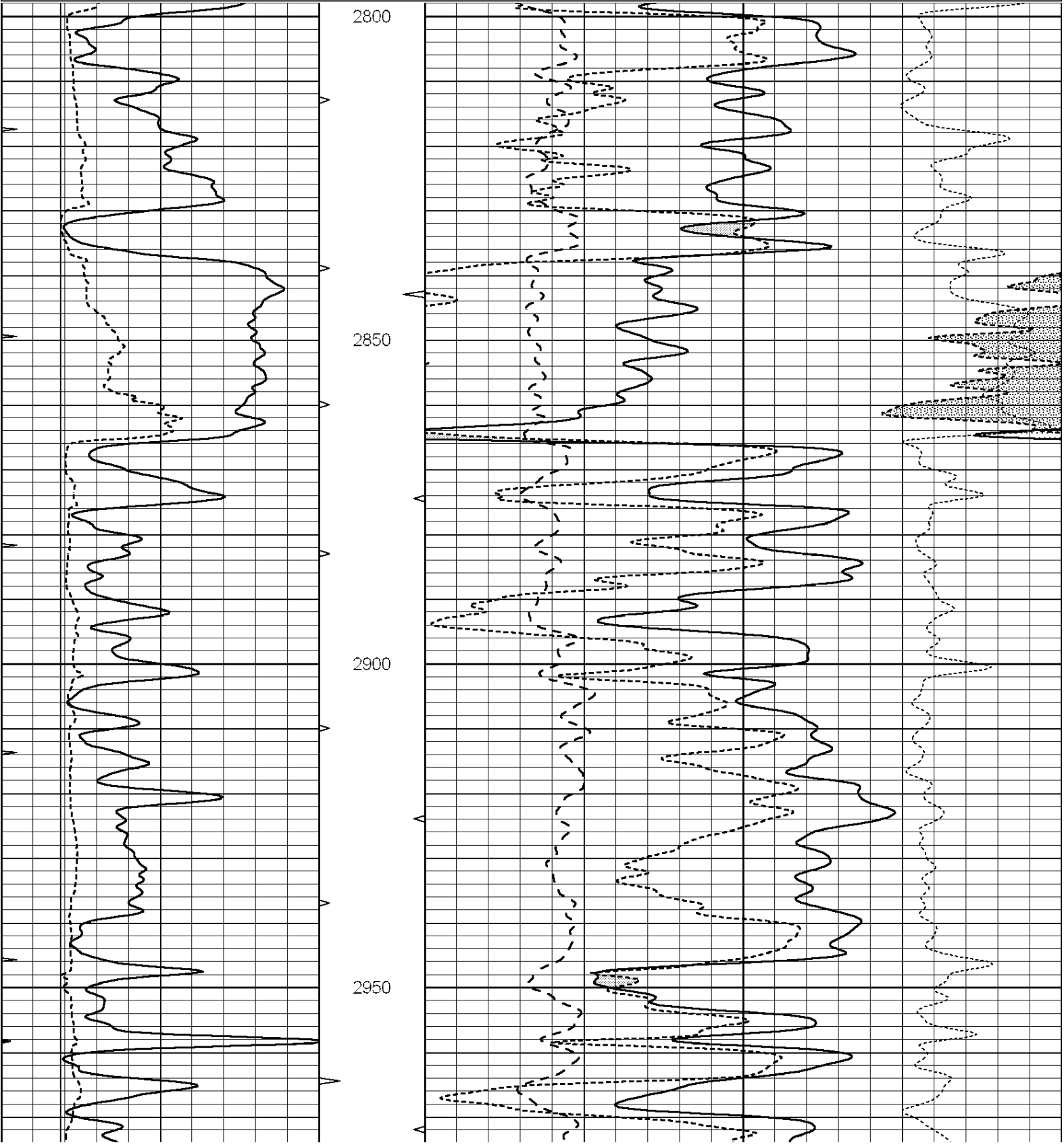
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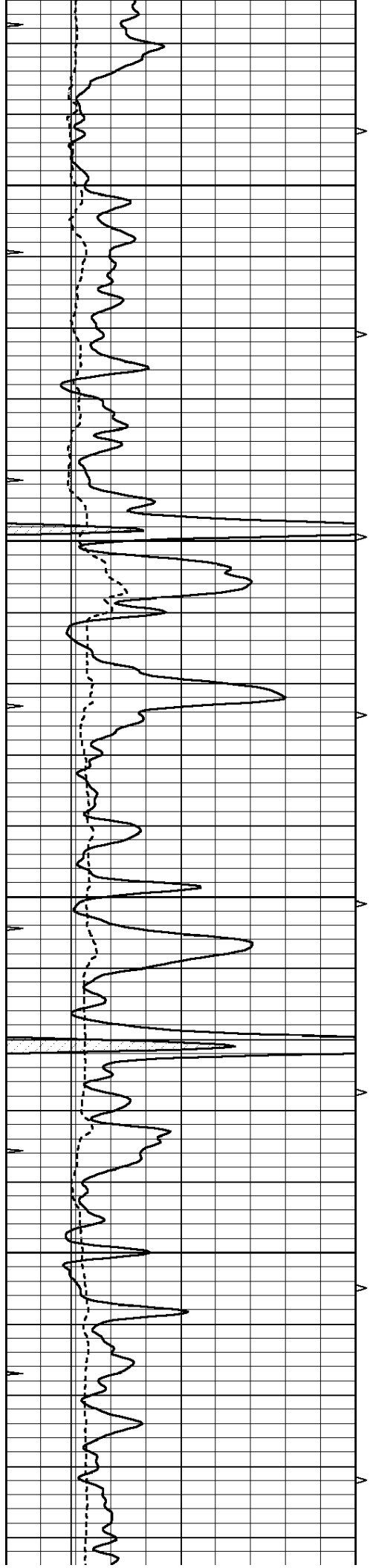
Thu Jan 09 07:31:47 2014

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						



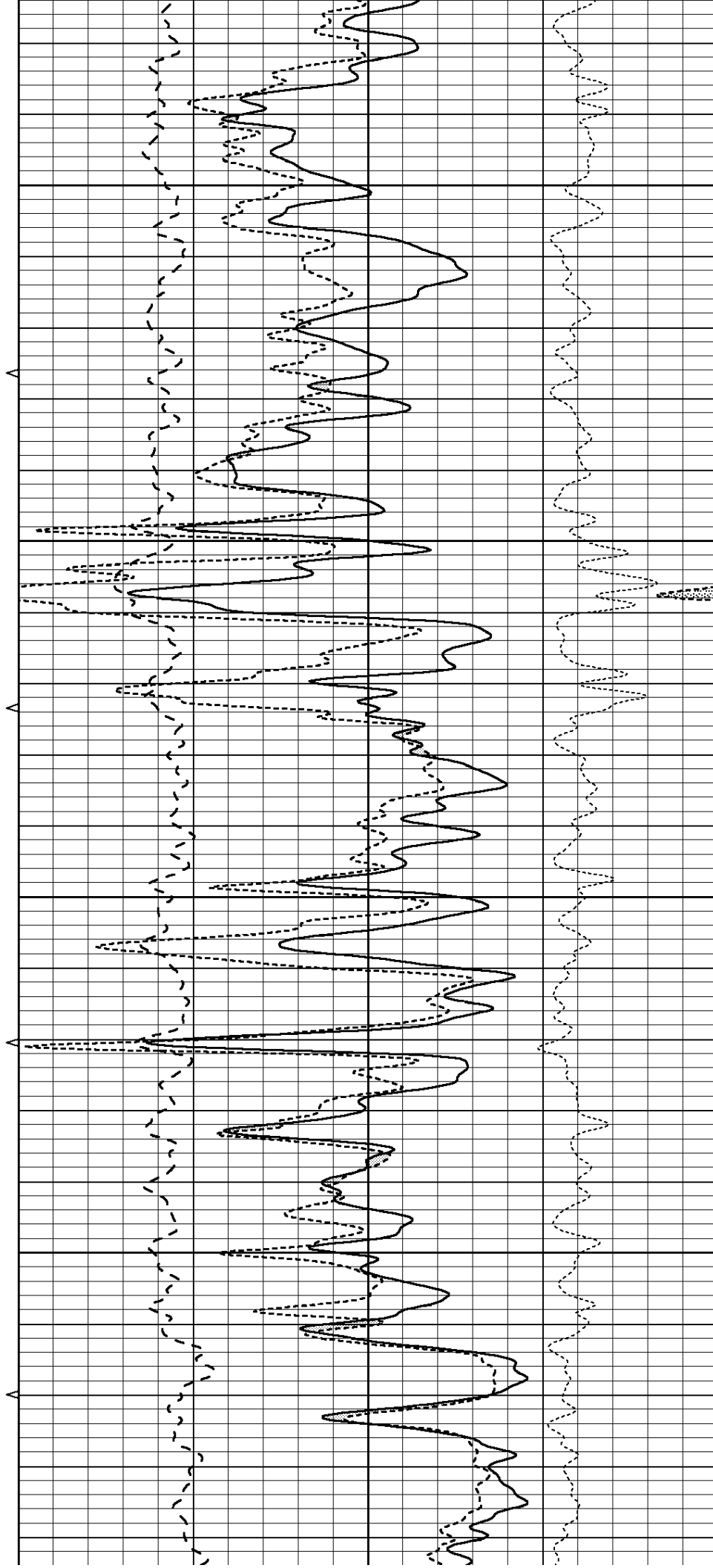


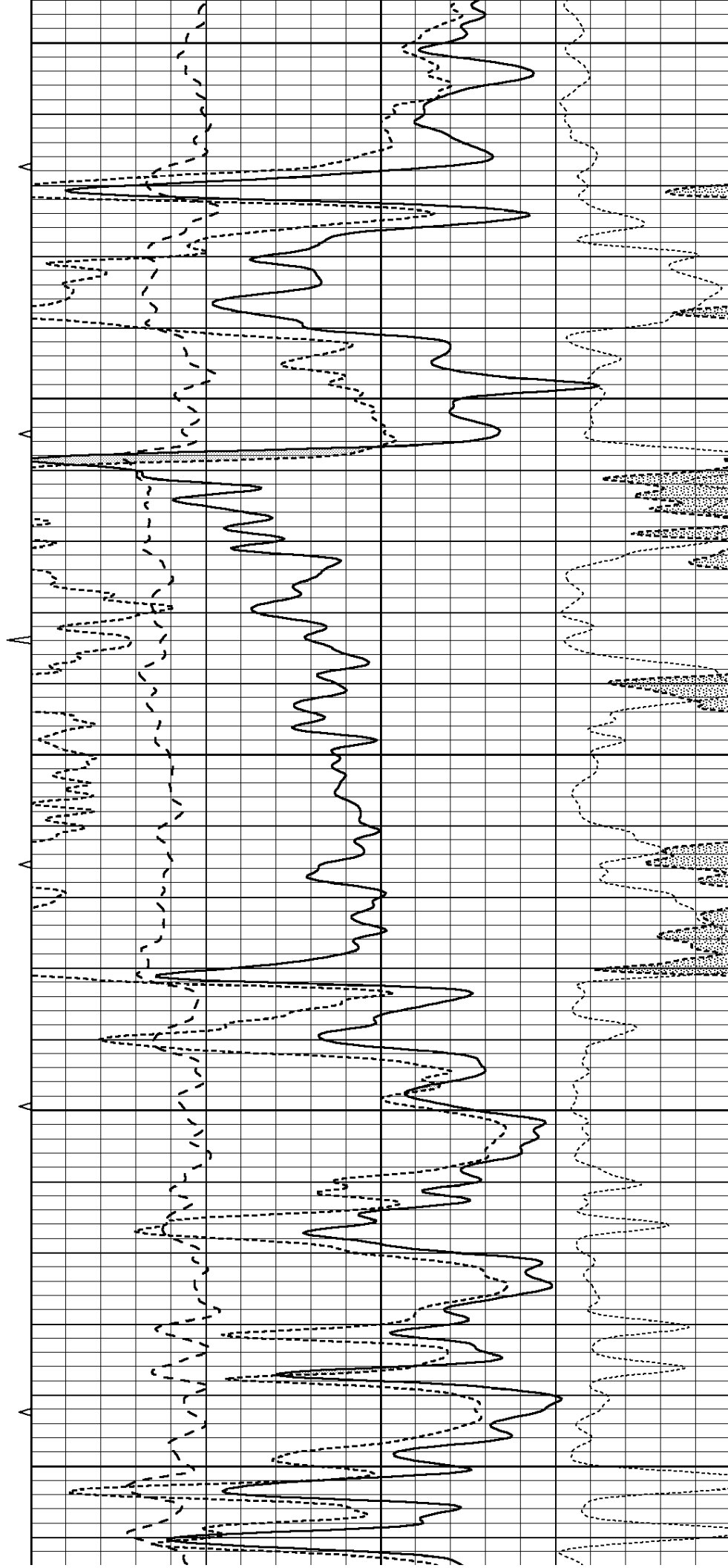
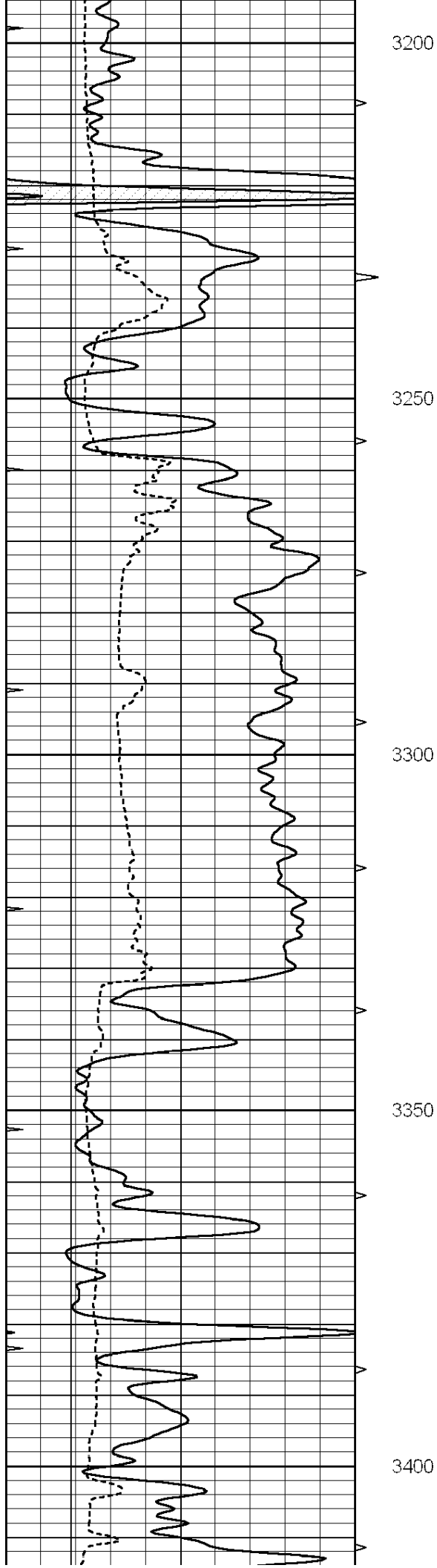
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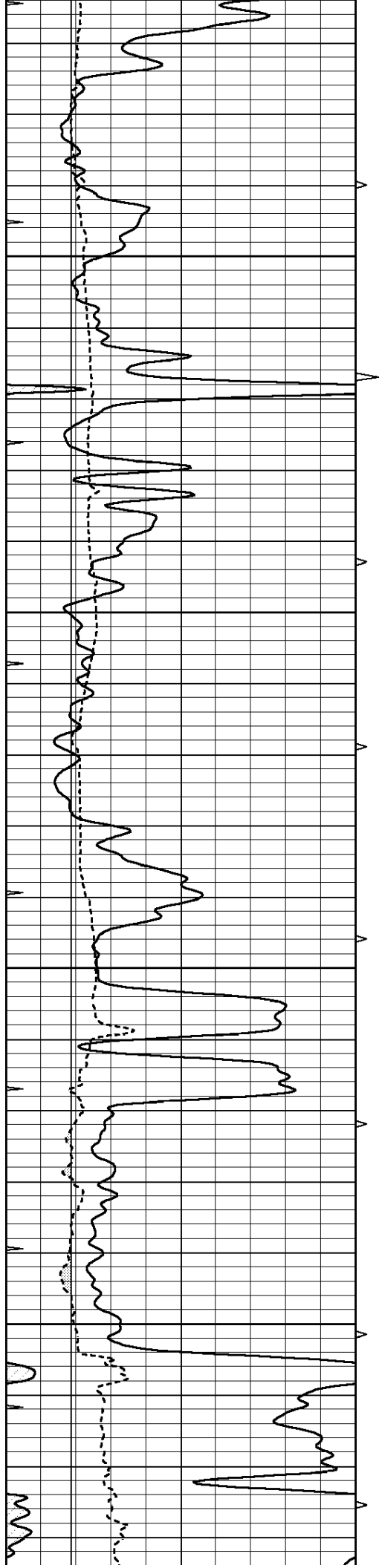
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3100

3150





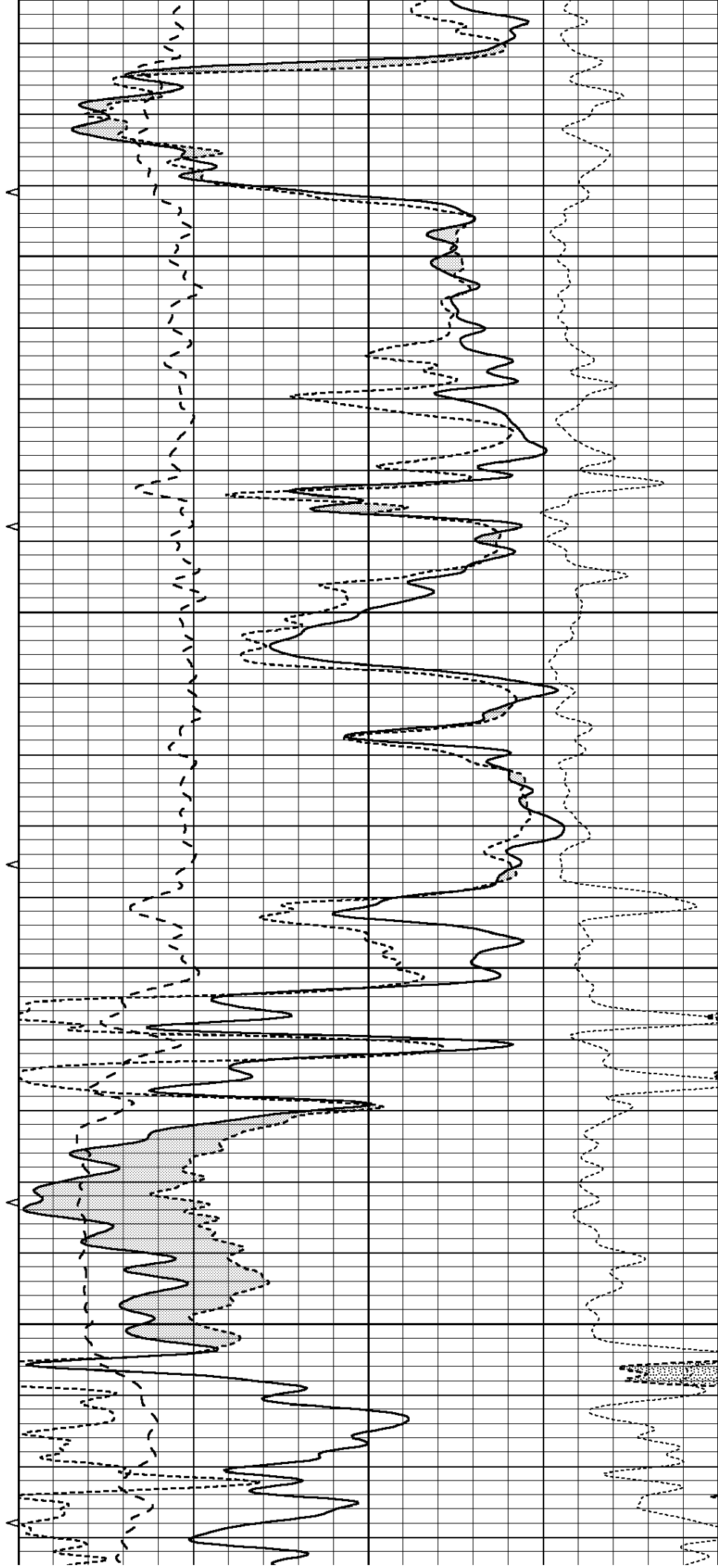


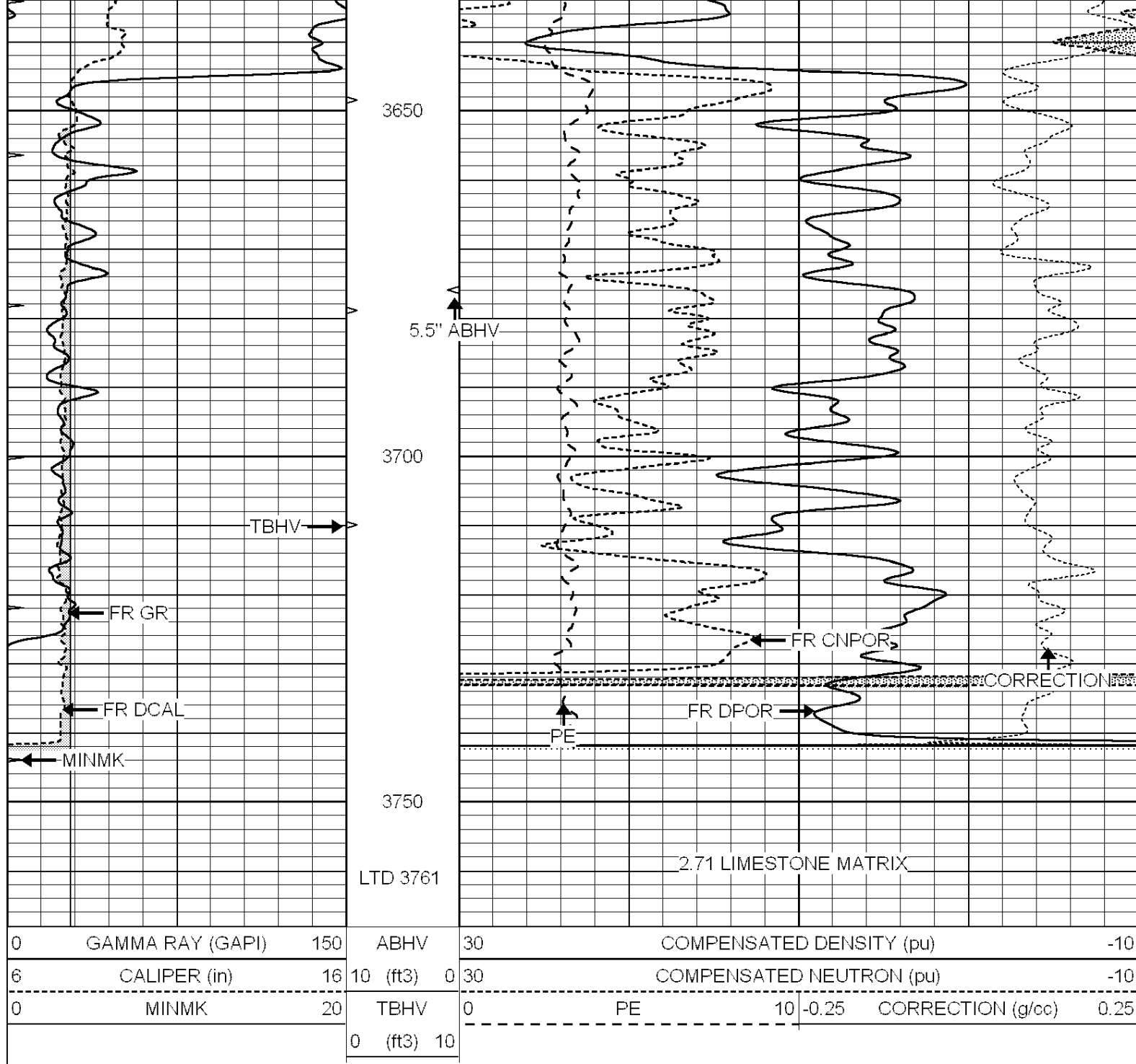
3450

3500

3550

3600



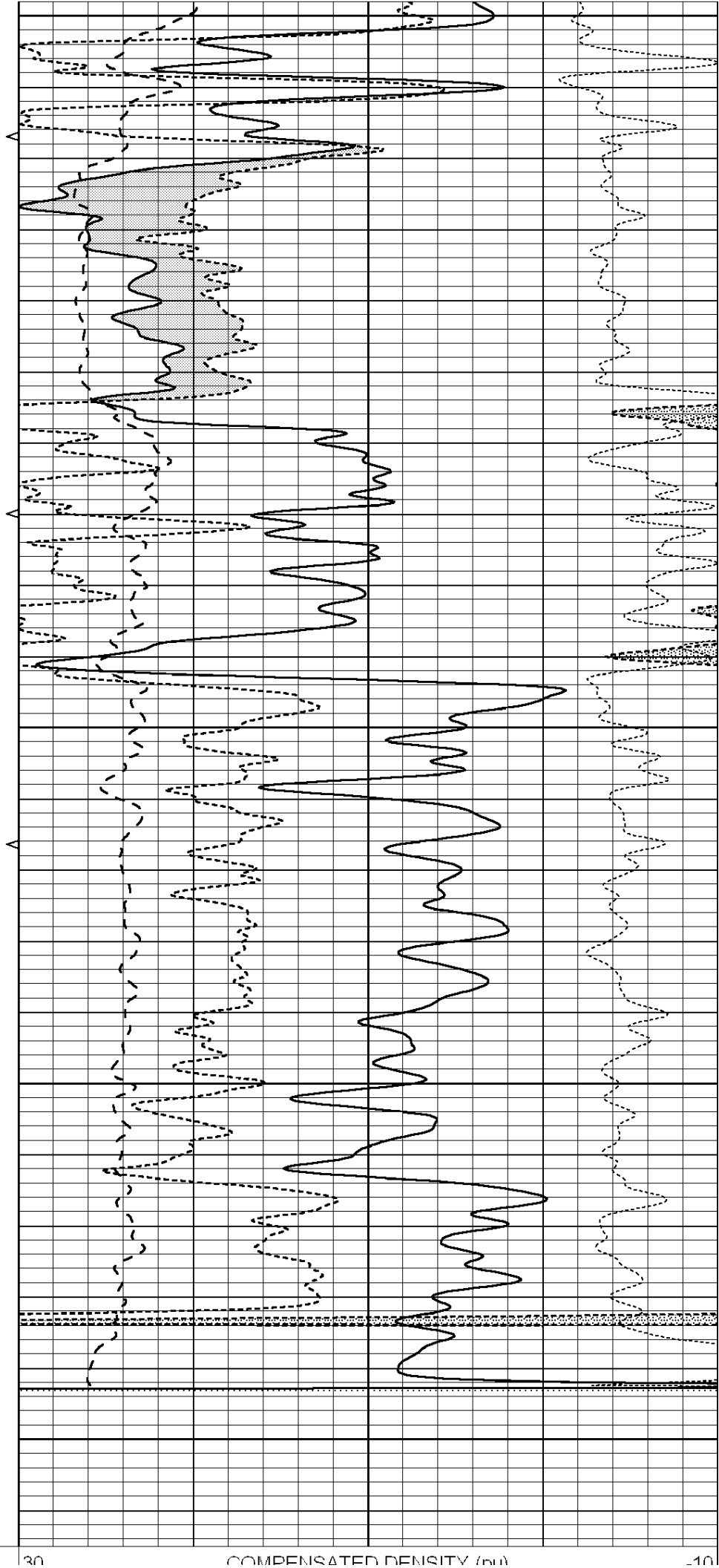
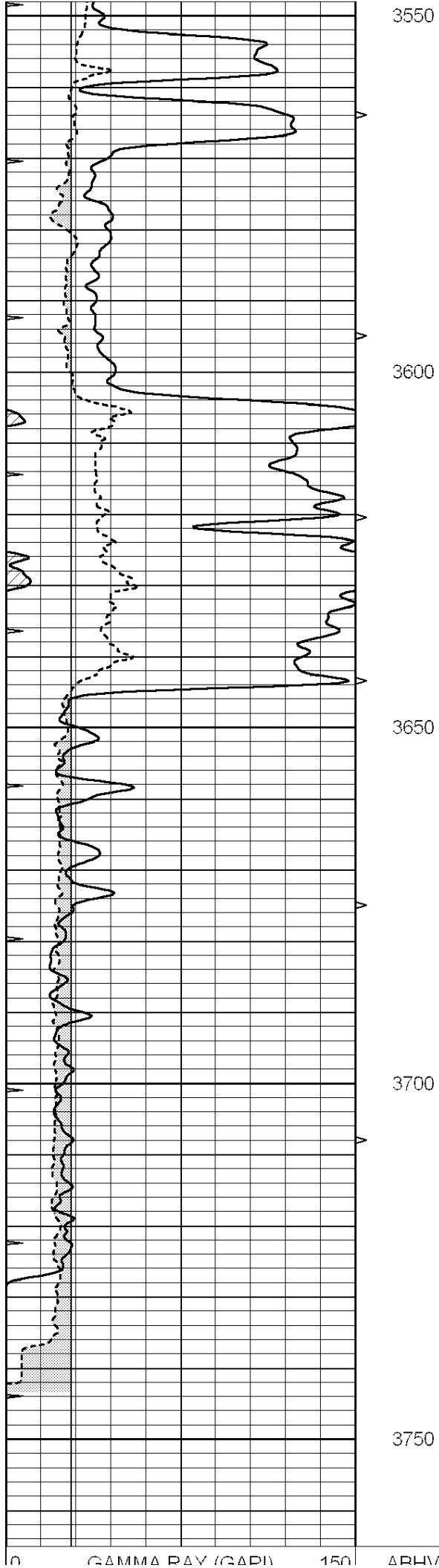


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REPEAT SECTION

Database File: 22232pe.db
Dataset Pathname: pass2.1
Presentation Format: ldt_neu
Dataset Creation: Thu Jan 09 06:18:59 2014 by Calc SOC 120430
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	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV	0	PE	10 -0.25 CORRECTION (g/cc) 0.25
			0 (ft3)	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			

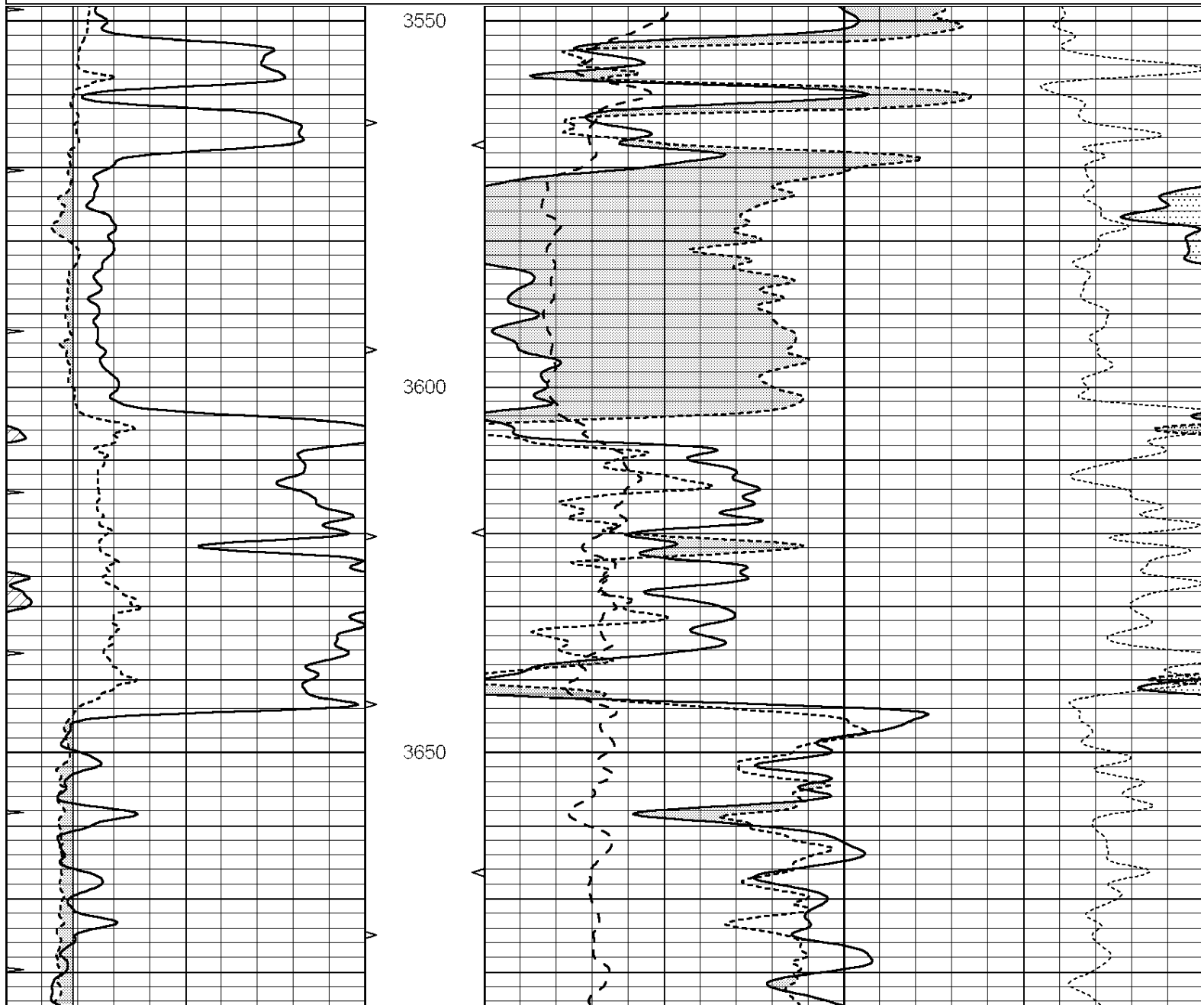


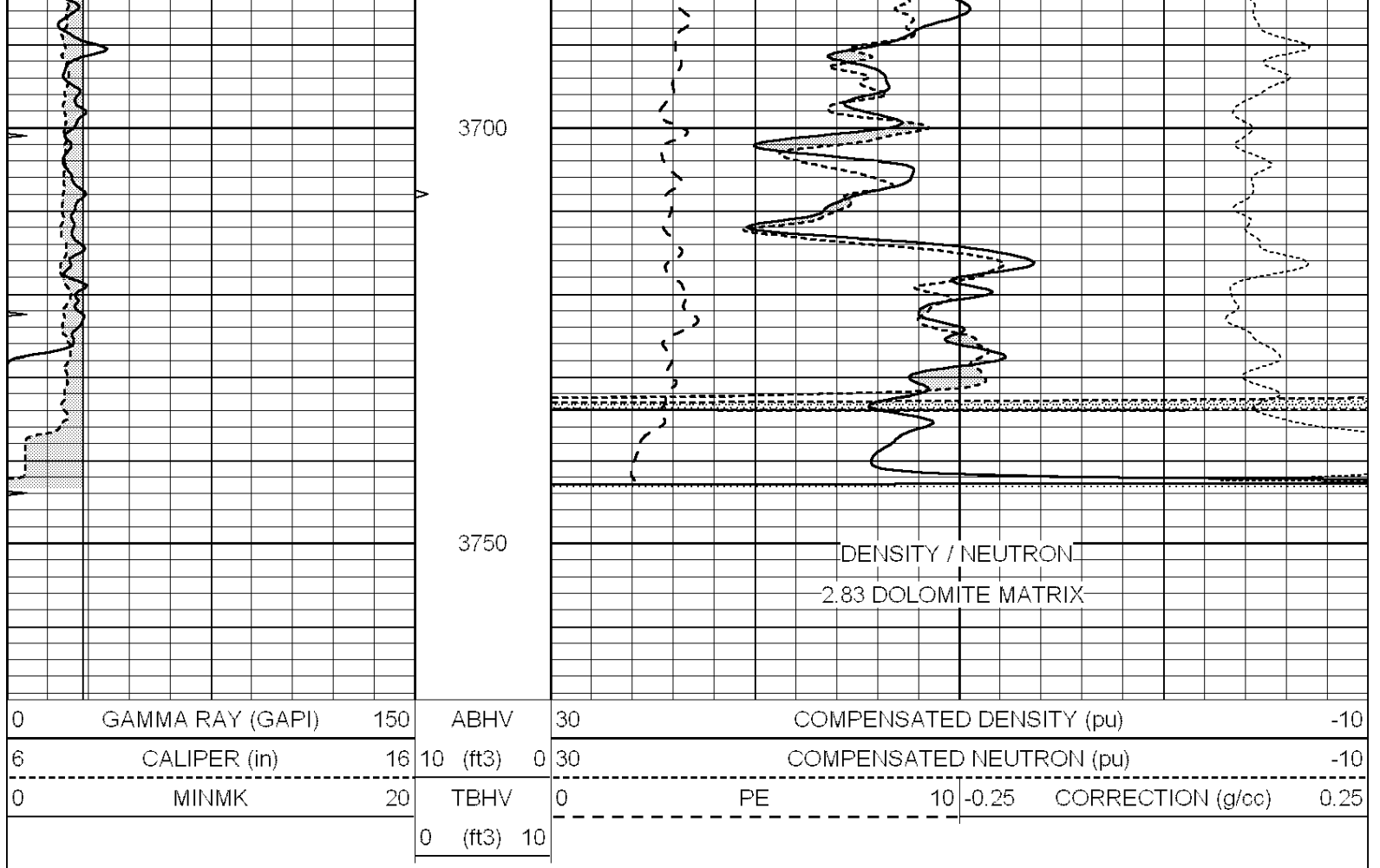
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DOLOMITE MATRIX

Database File: 22232pe.db
Dataset Pathname: pass2.3
Presentation Format: ldt_neu
Dataset Creation: Thu Jan 09 06:22:23 2014
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					





Calibration Report									
Database File:		22232pe.db							
Dataset Pathname:		pass3.4							
Dataset Creation:		Thu Jan 09 07:31:47 2014							
Dual Induction Calibration Report									
Serial-Model:					PROBE9-DILG				
Surface Cal Performed:					Wed Jan 08 16:39:24 2014				
Downhole Cal Performed:					Mon Jul 28 12:02:56 2008				
After Survey Verification Performed:					Mon Jul 28 12:02:56 2008				
Surface Calibration									
Readings				References			Results		
Loop:	Air	Loop		Air	Loop		m	b	
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	650.000	-3.000	
Medium	0.039	0.728	V	0.000	464.000	mmho/m	640.000	-15.000	
Internal:	Zero	Cal		Zero	Cal		m	b	
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256	
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102	
Downhole Calibration									
Readings				References			Results		
	Zero	Cal		Zero	Cal		m'	b'	
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000	
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000	
LL3		7.500	V		1400.000	Ohm-m			
		0.000	V		20.000	Ohm-m			
		7.000	V		1000.000	Ohm-m			

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:	070559		
Tool Model:	OPEN_GR		
Performed:	Thu Dec 19 09:01:02 2013		
Calibrator Value:	1.0	GAPI	
Background Reading:	0.0	cps	
Calibrator Reading:	1.0	cps	
Sensitivity:	0.2800	GAPI/cps	