



SUPERIOR
Hays,
Kansas

COMPENSATED DENSITY / NEUTRON LOG

Company DOWNING - NELSON OIL CO. INC.
Well NICKELSON - LLOYD UNIT #1-23
Field GLEN DALE SOUTH
County GRAHAM
State KANSAS

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Location: API # : 15-065-23776-0000
100' FSL & 335' FWL
SE - SW - SW - SW
SEC 23 TWP 9S RGE 24W
Permanent Datum GROUND LEVEL Elevation 2479
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING
Other Services
DIL/MEL
Elevation
K.B. 2487
D.F. 2485
G.L. 2479

Date	10/9/11		
Run Number	ONE		
Depth Driller	4100		
Depth Logger	4095		
Bottom Logged Interval	4071		
Top Log Interval	3300		
Casing Driller	8 5/8" @ 221'		
Casing Logger	221		
Bit Size	7 7/8"		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 1,000 PPM	
Density / Viscosity	8.7/48		
pH / Fluid Loss	10.0/8.8		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	.950 @ 60F		
Rmt @ Meas. Temp	.713 @ 60F		
Rmc @ Meas. Temp	1.14 @ 60F		
Source of Rm / Rmc	MEASUREMENT		
Rm @ BHT	.487 @ 117F		
Time Circulation Stopped	3 HOURS		
Time Logger on Bottom	9:00 A.M.		
Maximum Recorded Temperature	117F		
Equipment Number	4010		
Location	HAYS, KANSAS		
Recorded By	JEFF LUEBBERS		
Witnessed By	MARC DOWNING		

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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 SUPERIOR WELL SERVICE HAYS, KANSAS (785) 628-6395
DIRECTIONS
WAKEENY, KS. 14N. ON HWY 283 TO "RED LINE RD.", 6W. TO "RD. 200", 1N., 1/8E., N. INTO

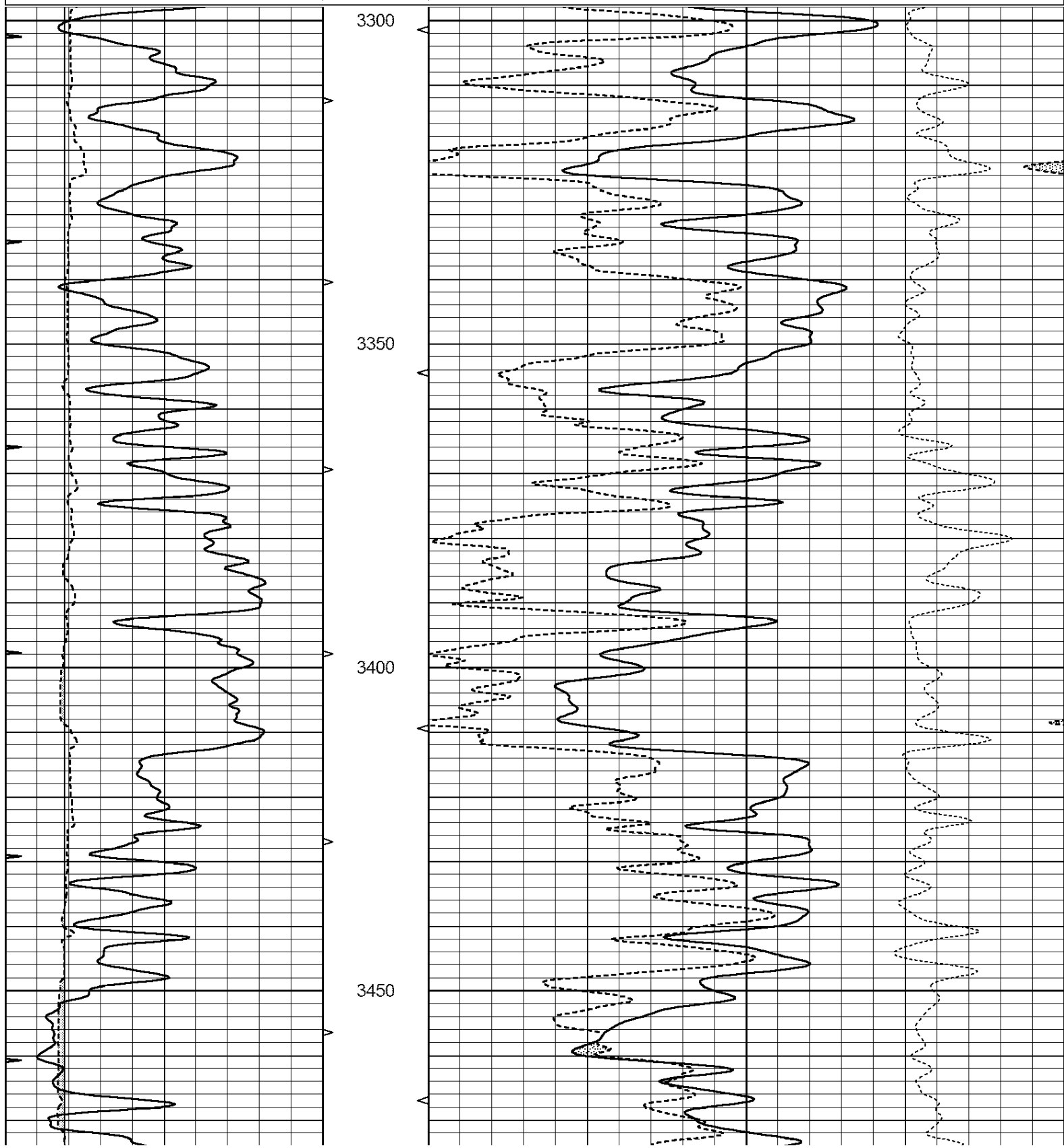


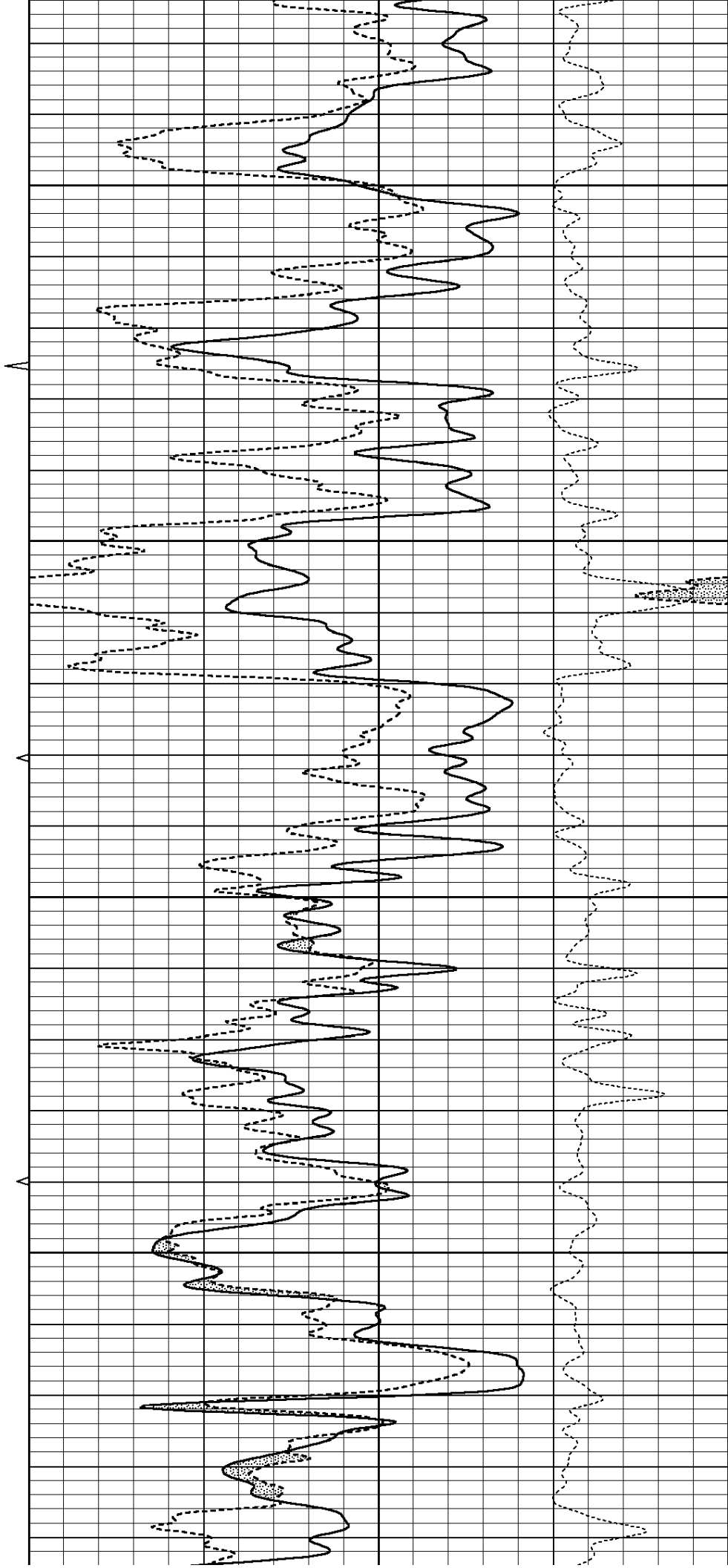
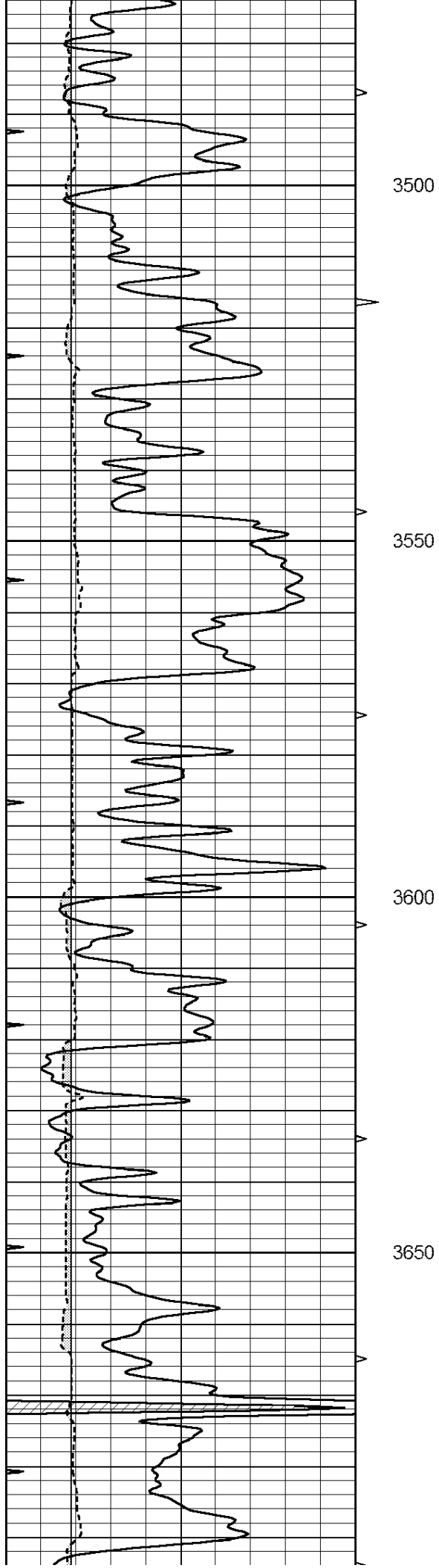
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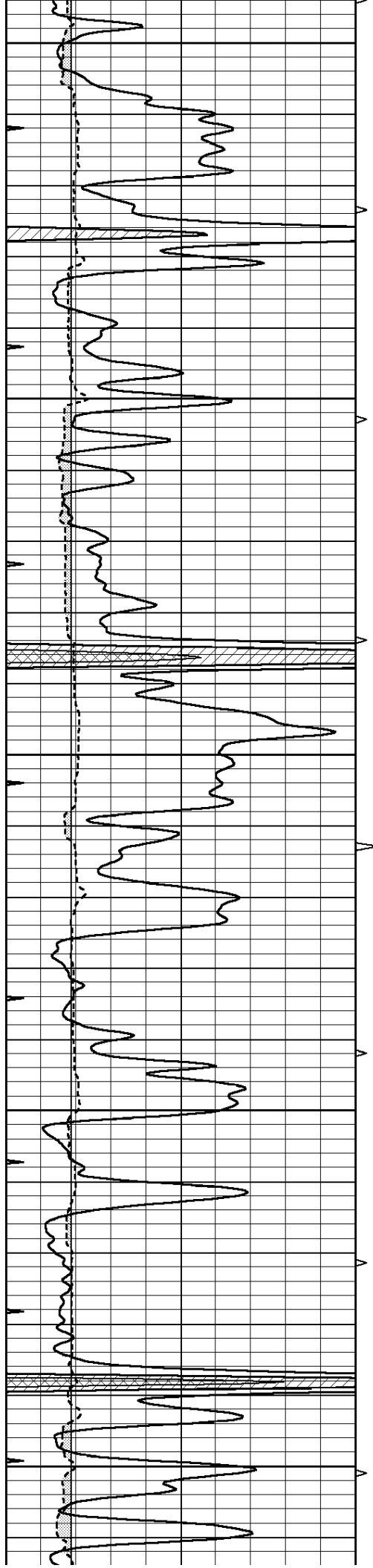
MAIN SECTION

Database File: 007462ddn.db
Dataset Pathname: pass4.7
Presentation Format: den_neu
Dataset Creation: Sun Oct 09 12:01:18 2011
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		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		







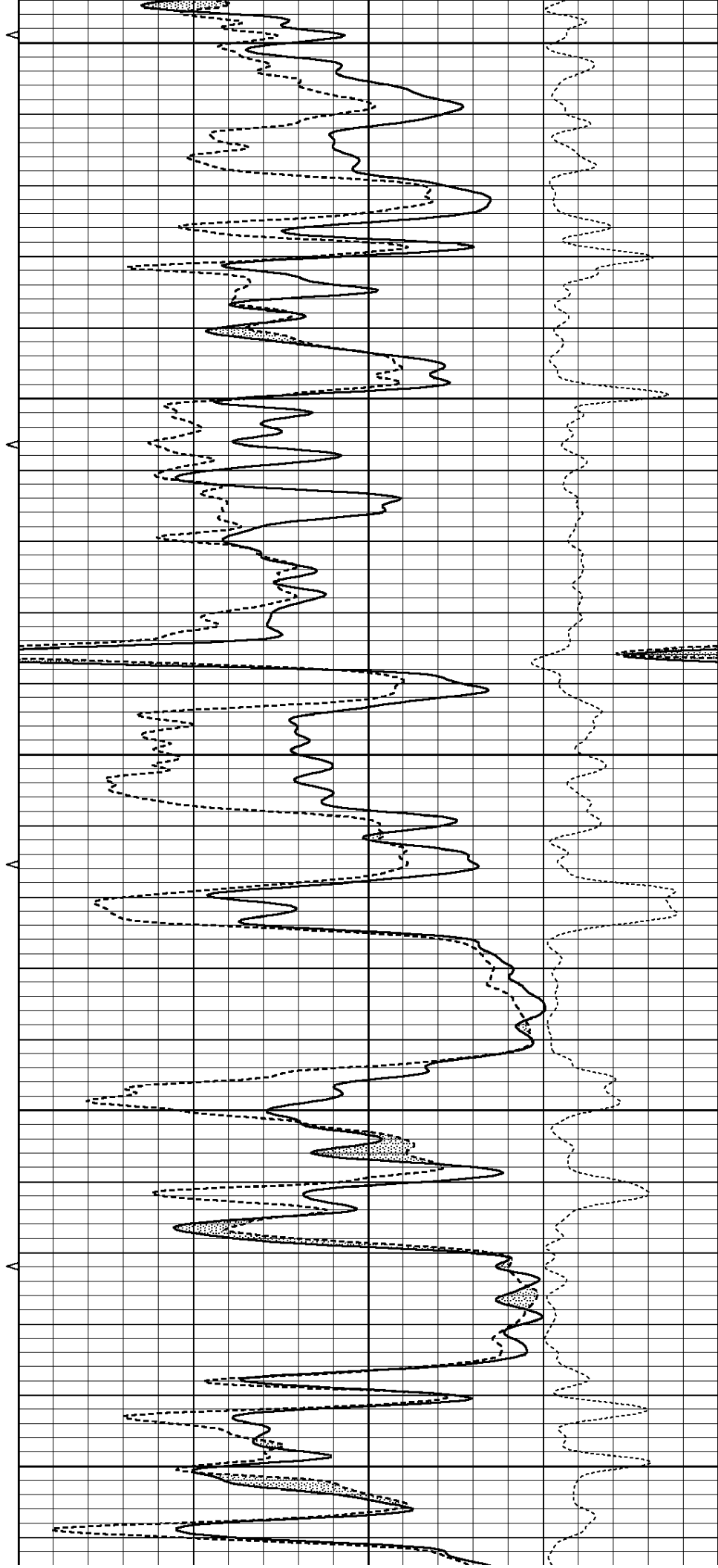
3700

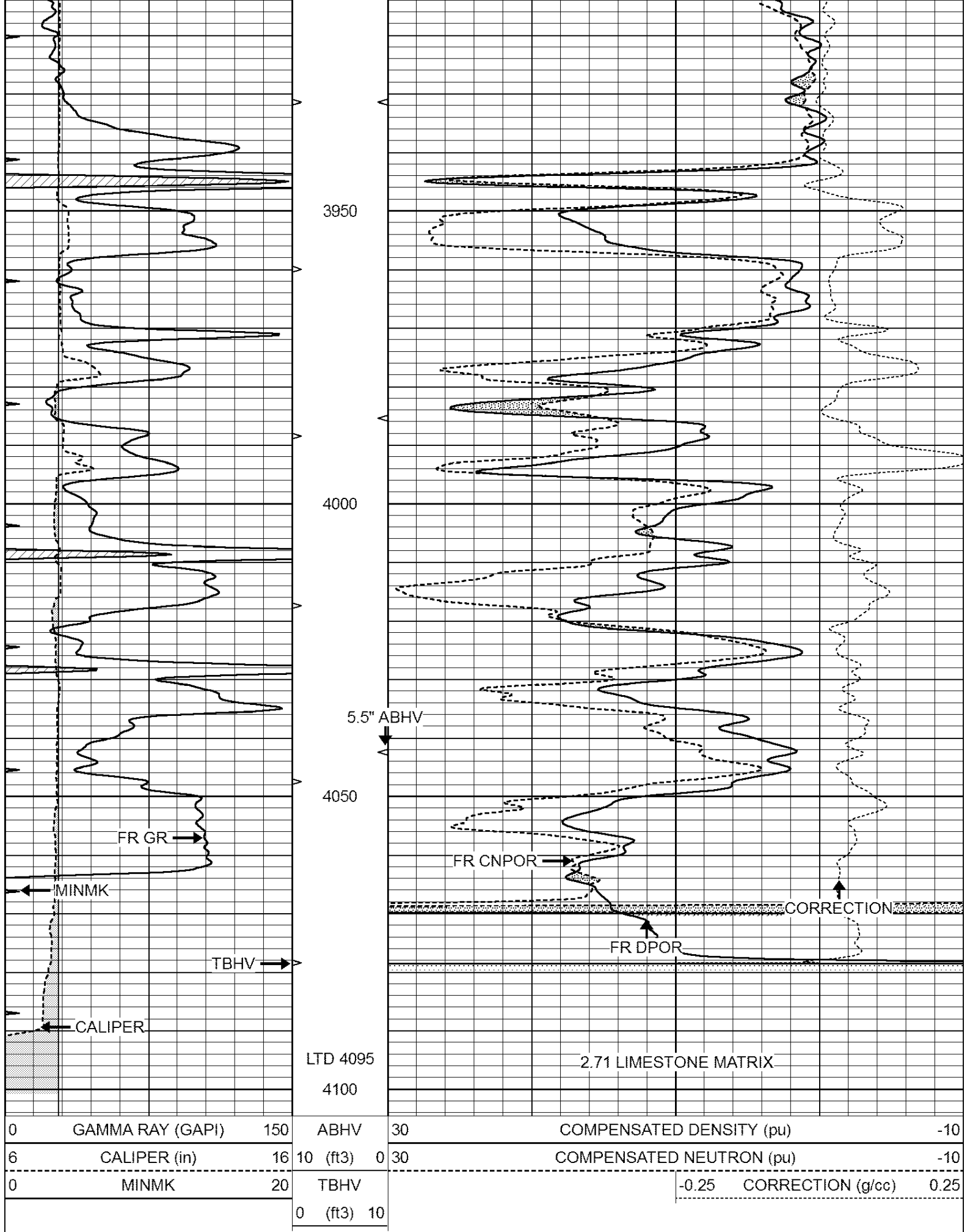
3750

3800

3850

3900





3950

4000

4050

LTD 4095
4100

5.5" ABHV

FR GR

MINMK

TBHV

FR CNPOR

FR DPOR

CORRECTION

2.71 LIMESTONE MATRIX

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

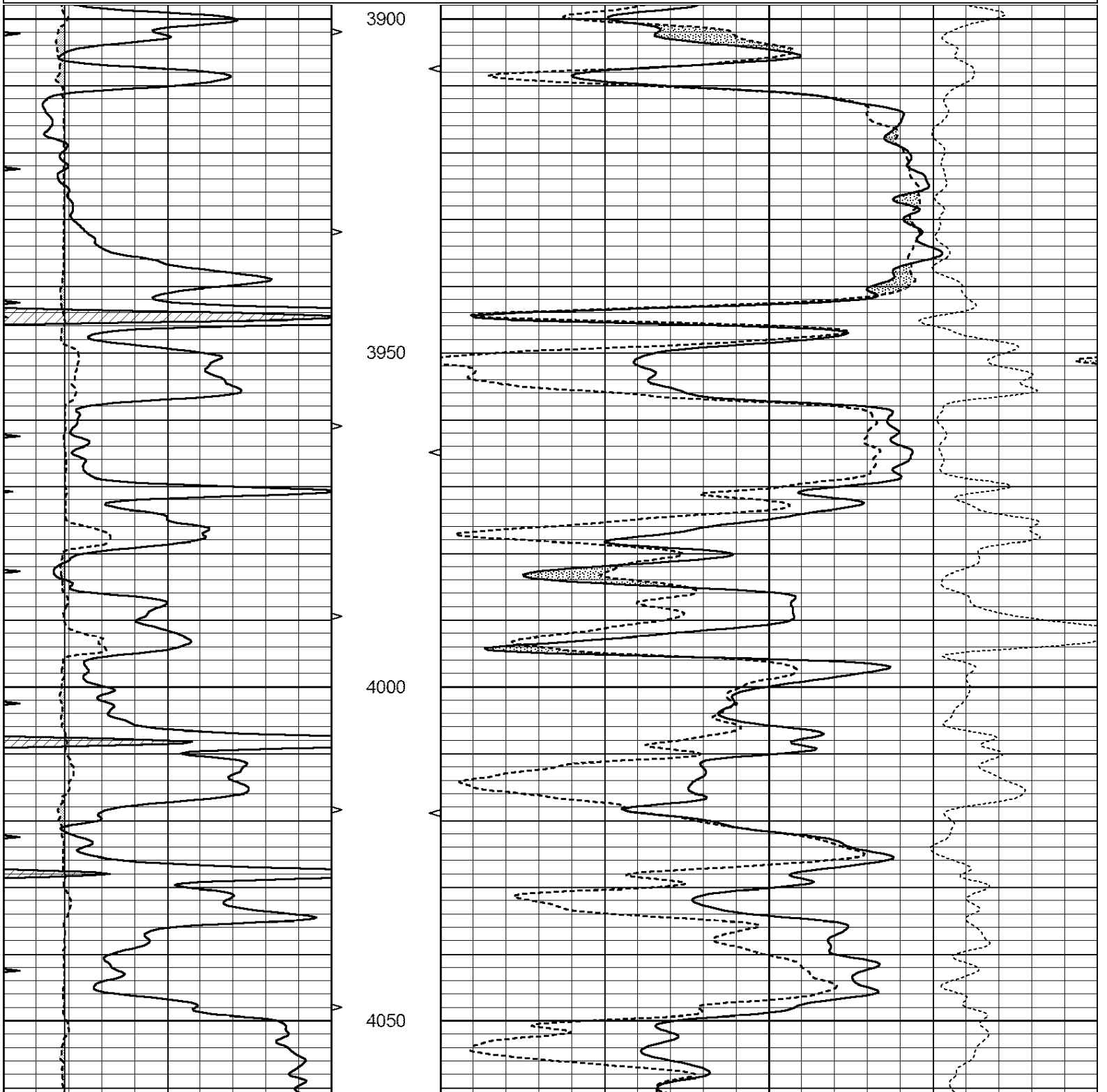


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REPEAT SECTION

Database File: 007462ddn.db
Dataset Pathname: pass3.6
Presentation Format: den_neu
Dataset Creation: Sun Oct 09 09:59:53 2011
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		-0.25	CORRECTION (g/cc) 0.25
			0 (ft3)	10		



Gain: 3.2

Onset: -4.6

Compensated Neutron Calibration Report

Serial Number:
Tool Model:NEU_1I
G

CALIBRATION

Detector	Readings	Target	Normalization
Short Space	1.00 cps	1.00 cps	1.0000
Long Space	1.00 cps	1.00 cps	1.0000

Gamma Ray Calibration Report

Serial Number:	GR1
Tool Model:	OPEN
Performed:	Sun Oct 09 08:37:51 2011

Calibrator Value:	200.0	GAPI
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Background Reading:	3.0	cps
Calibrator Reading:	186.0	cps

Sensitivity:	0.2500	GAPI/cps
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