



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY/NEUTRON LOG

Company	DREILING OIL COMPANY, INC.		
Well	DREILING TRUST #1		
Field	SUGARLOAF		
County	ELLIS	State	KANSAS
Location:	API # : 15-051-26587-0000 345' FNL & 330' FEL S/2 - NE - NE - NE/4		
Permanent Datum	GROUND LEVEL	Elevation	2037
Log Measured From	KELLY BUSHING & A.G.L.		
Drilling Measured From	KELLY BUSHING		
SEC 20 TWP 13S RGE 17W		Other Services	DIL/MEL SONIC
Elevation			K.B. 2045 D.F. 2043 G.L. 2037
Date	10/23/13		
Run Number	ONE		
Depth Driller	3700		
Depth Logger	3702		
Bottom Logged Interval	3678		
Top Log Interval	2900		
Casing Driller	8 5/8" @ 222'		
Casing Logger	222'		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 2750 PPM	
Density / Viscosity	9.1 / 53		
pH / Fluid Loss	10.0 / 8.0		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	0.80 @ 70F		
Rmf @ Meas. Temp	0.60 @ 70F		
Rmc @ Meas. Temp	0.96 @ 70F		
Source of Rmf / Rmc	MEASURED		
Rin @ BHT	0.50 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	113F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JEFF GRONEMEG		
Witnessed By	ROGER FISHER		

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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

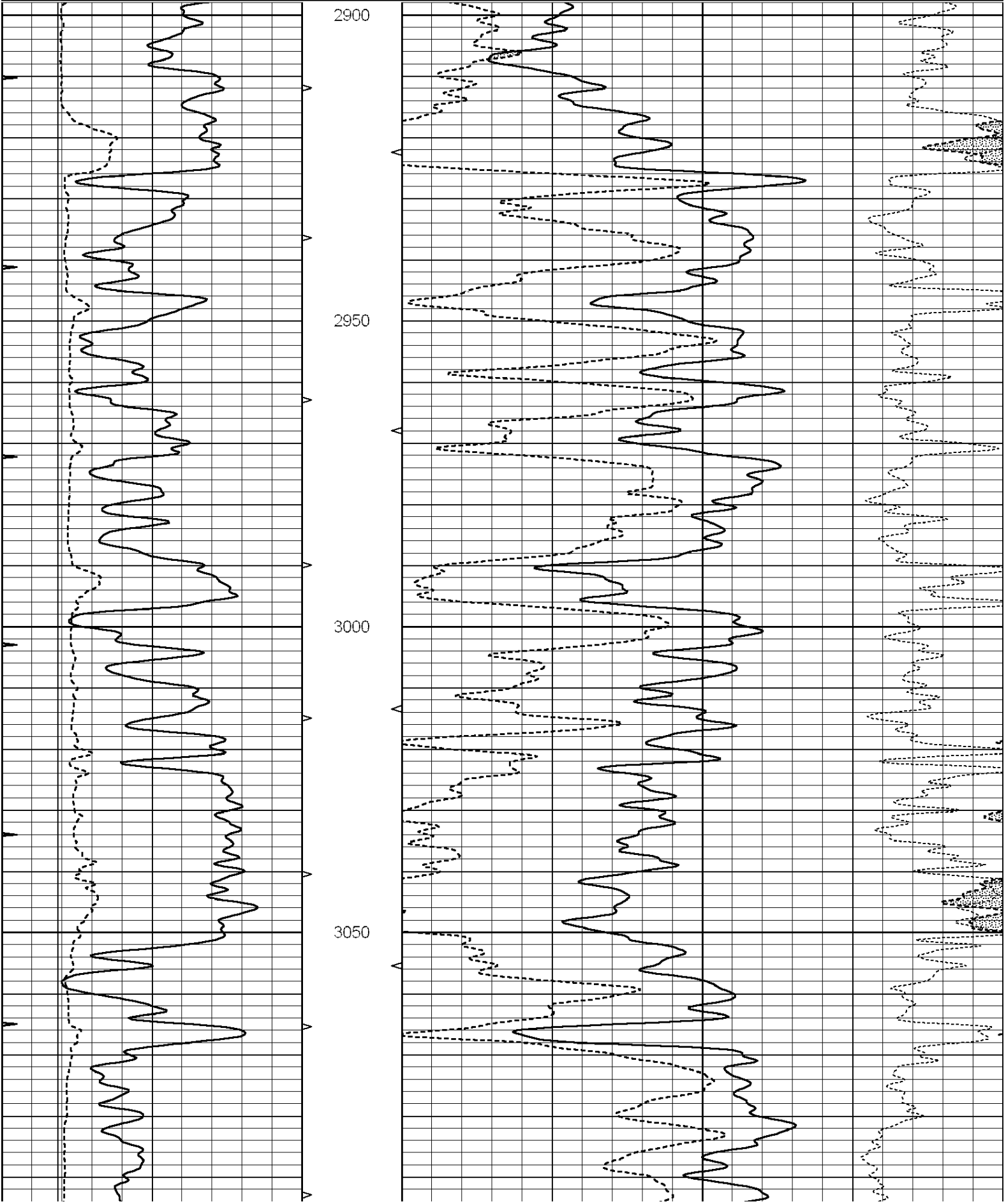
THANK YOU FOR USING NABORS COMPLETION & PRODUCTION SVCS. (785) 628-6395

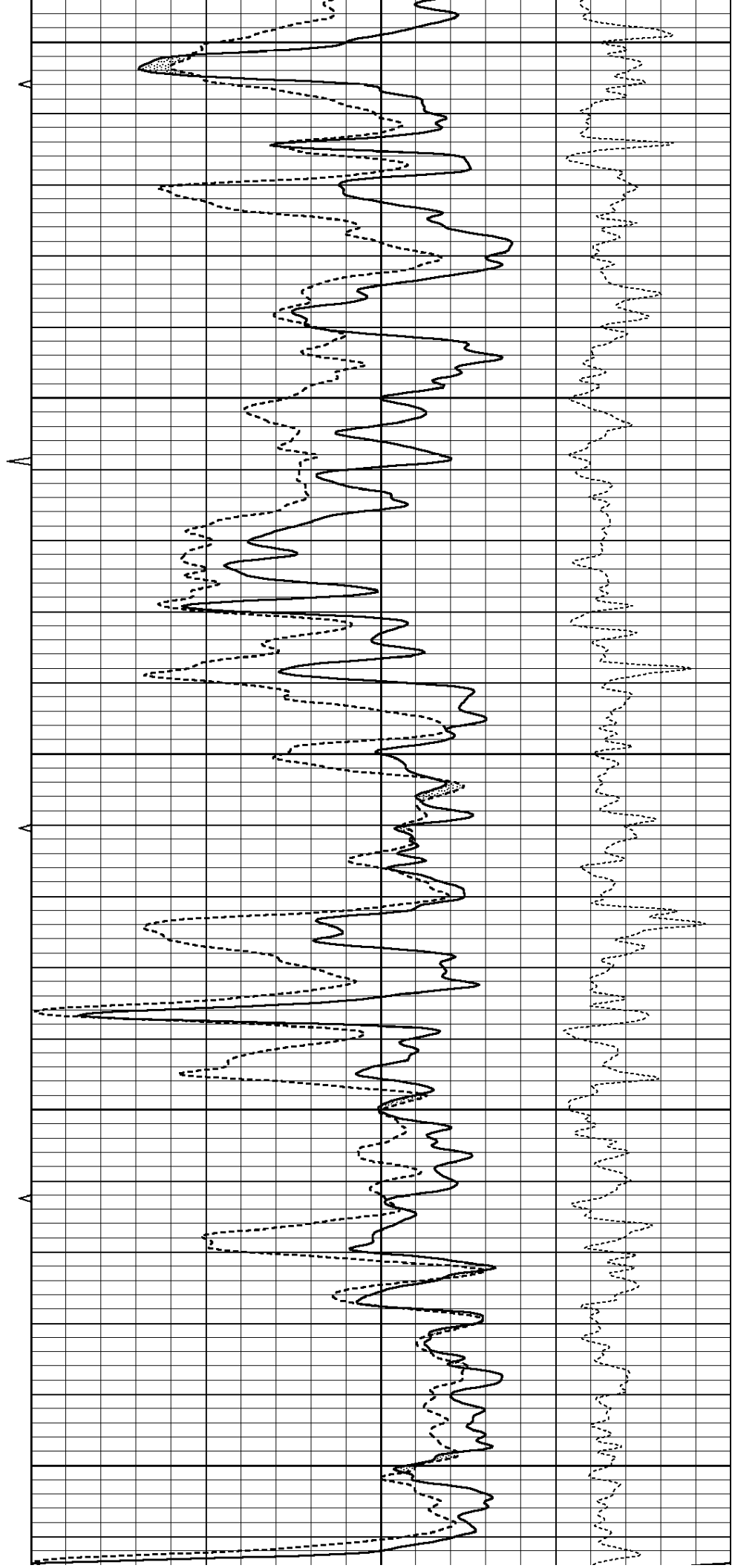
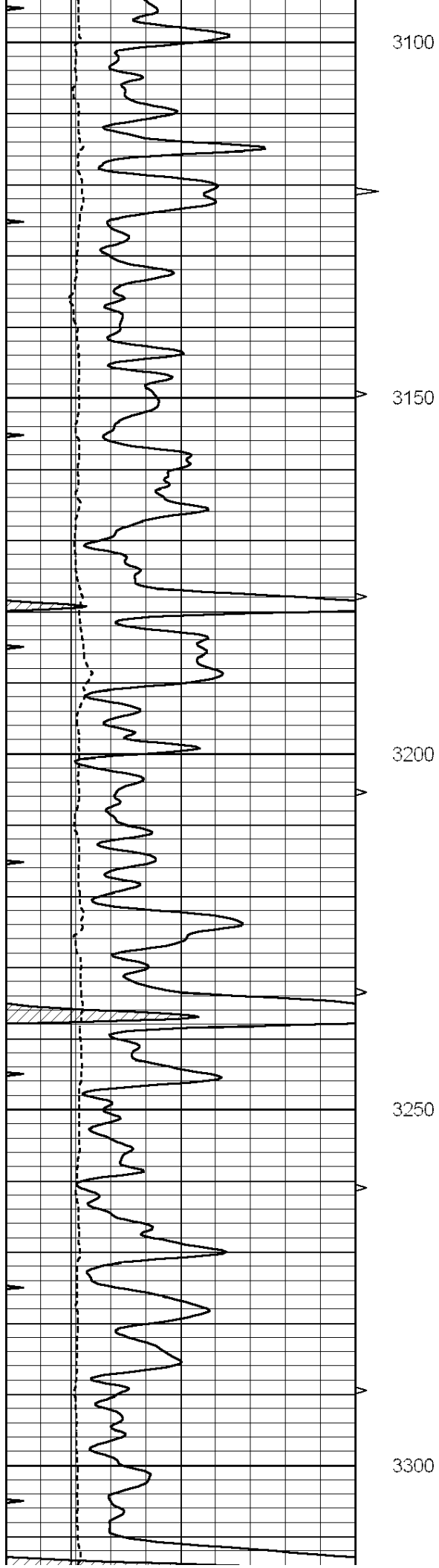
DIRECTIONS:

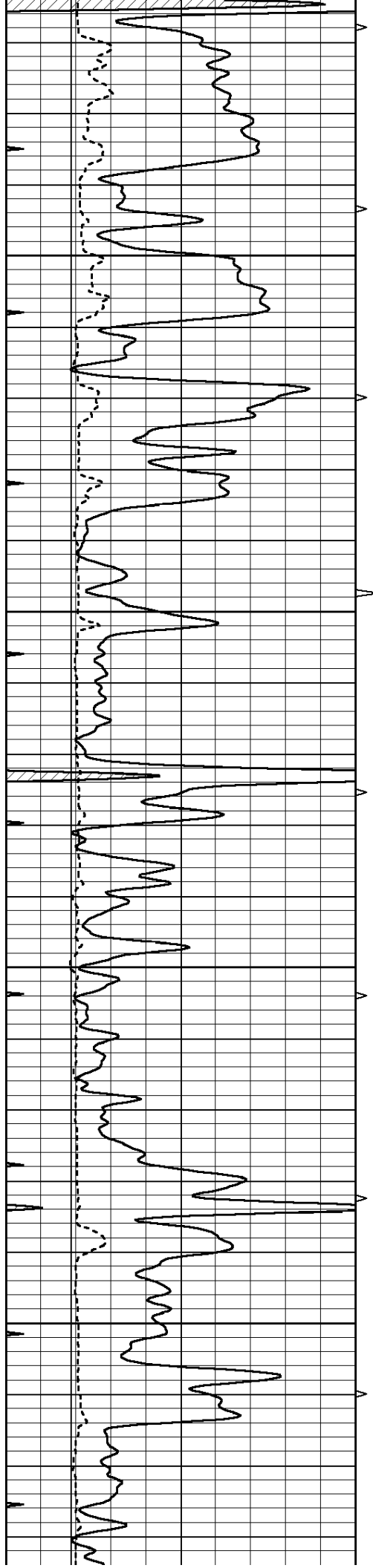
TOULON EXIT ON I-70 - 2 1/2 MILES NORTH TO FAIRGROUND RD - 1/2 MILE EAST TO GATE
INTO SOUTH - EAST - NORTH APPROX 1 MILE

Database File: 010948ddn.db
 Dataset Pathname: pass3.2
 Presentation Format: _den_neu
 Dataset Creation: Wed Oct 23 05:07:04 2013
 Charted by: Depth in Feet scaled 1:240

Charted by:		Depth in Feet scaled 1:2.15				
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX	-0.25 CORRECTION (g/cc) 0.25		
			0 (ft3)	10		





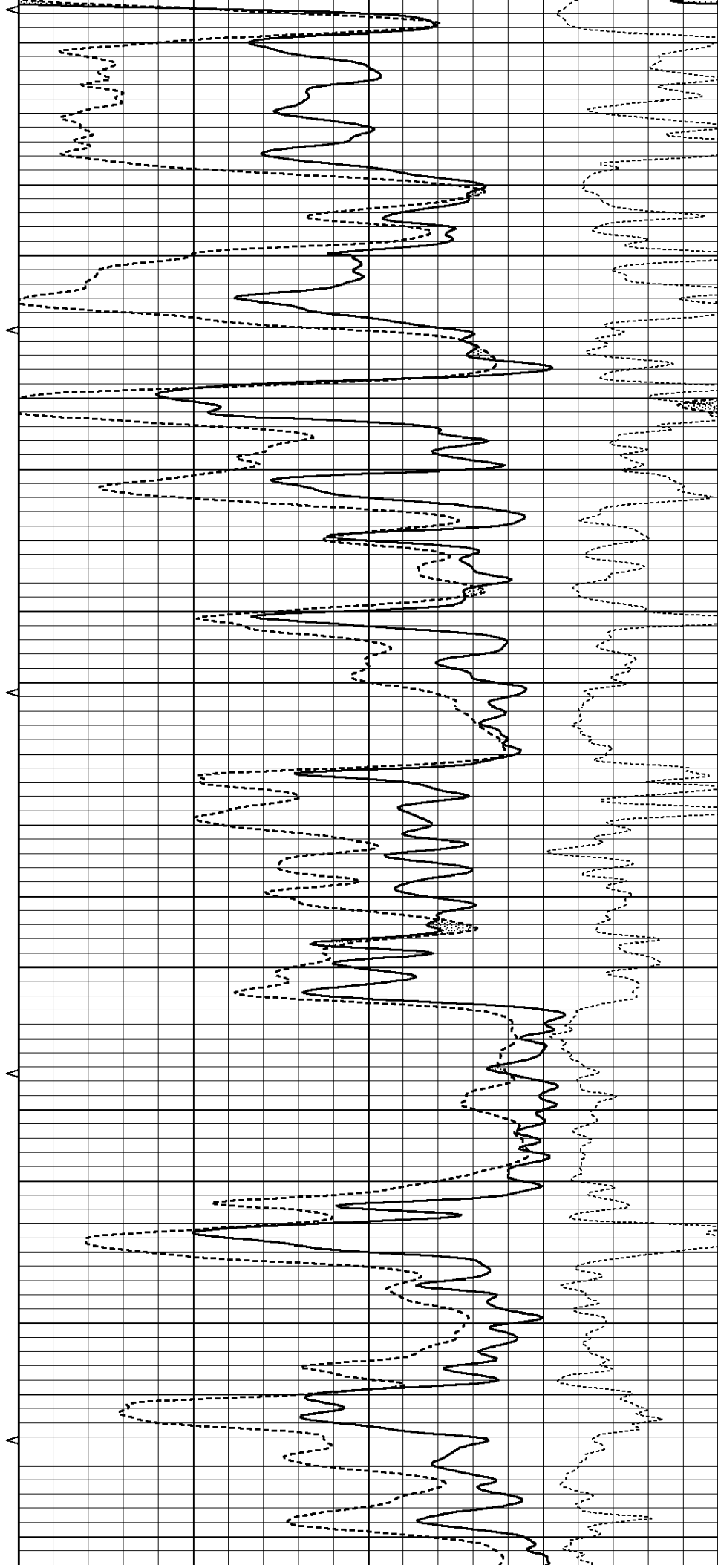


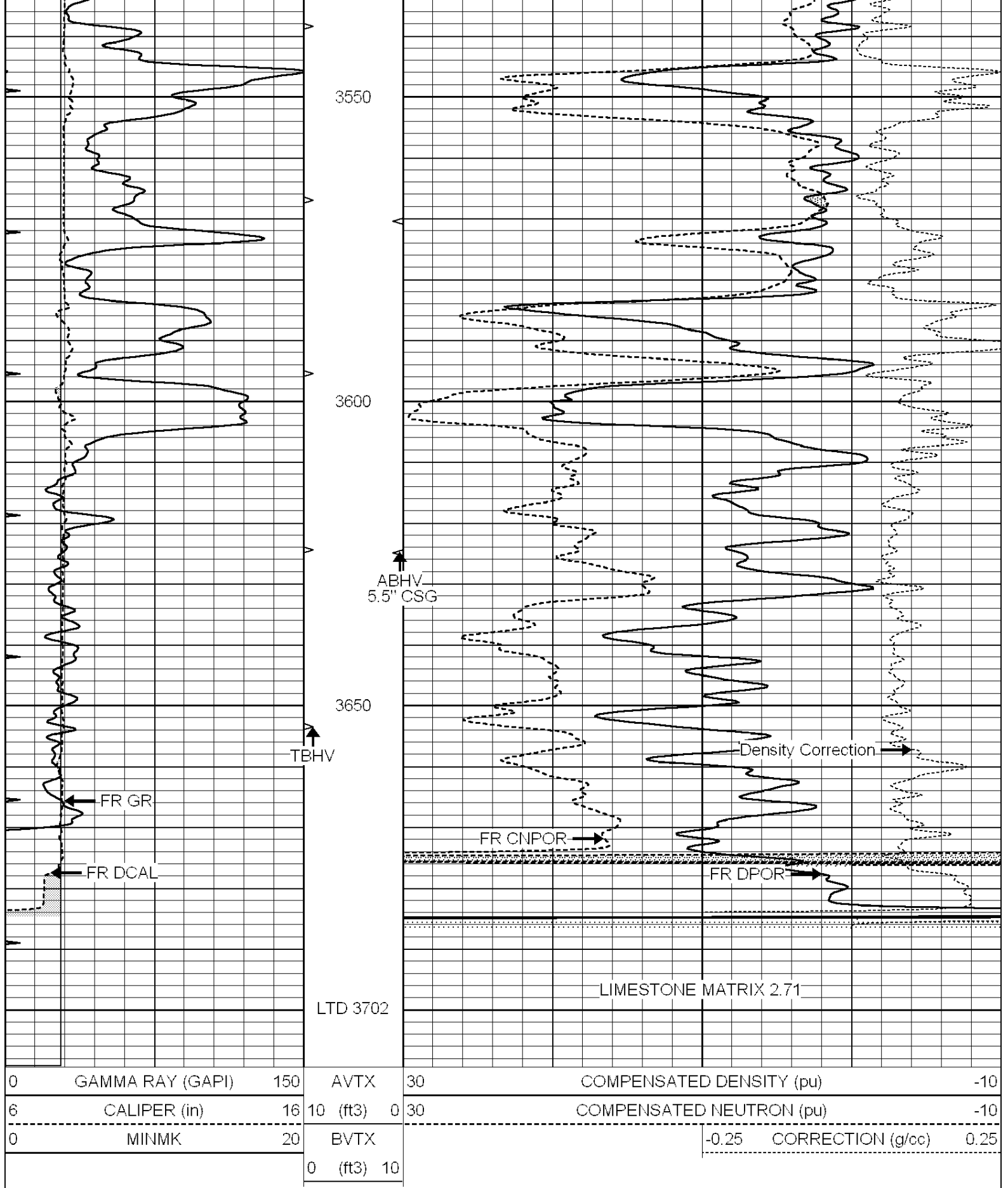
3350

3400

3450

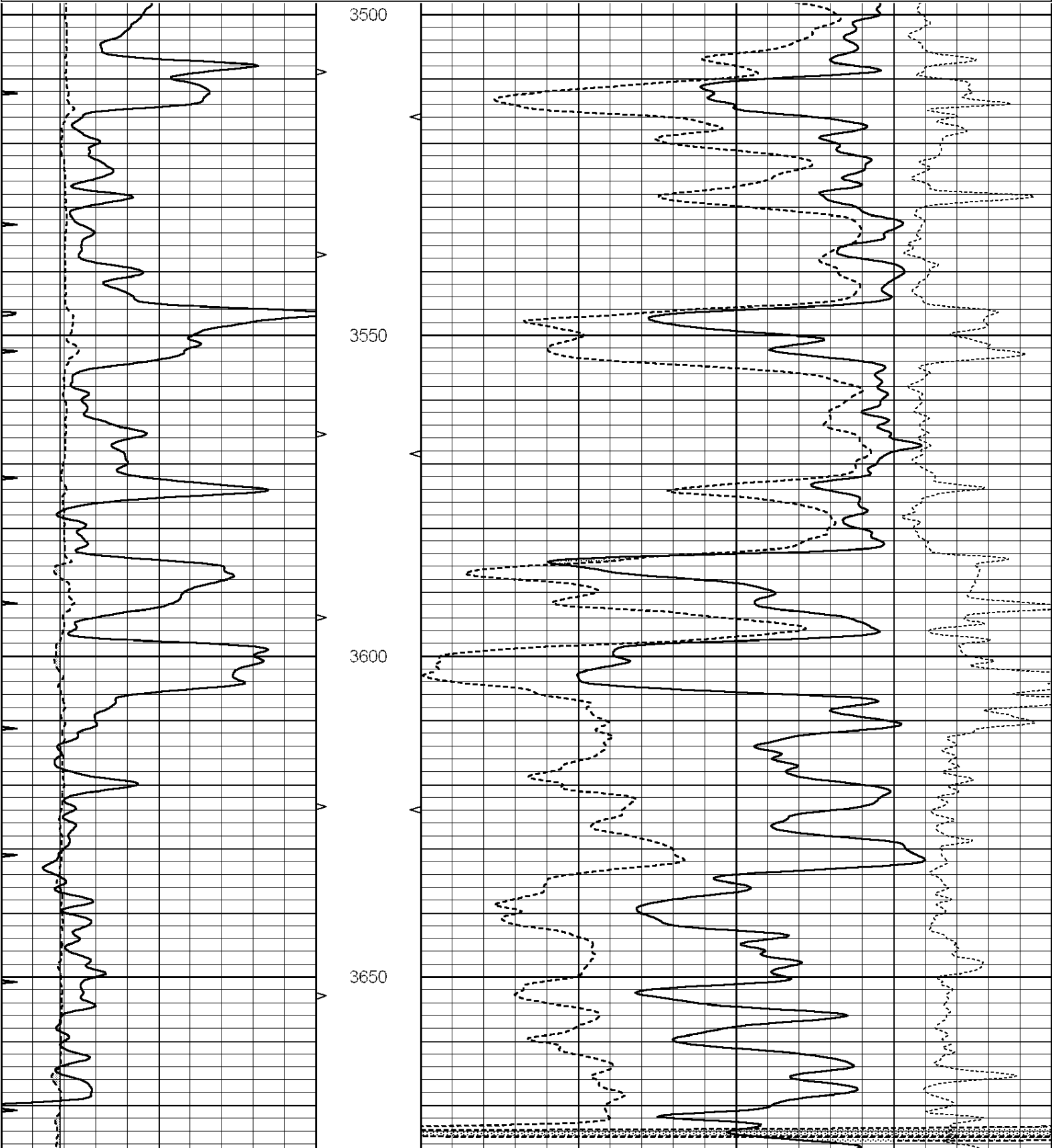
3500





Database File: 010948ddn.db
Dataset Pathname: pass2.3
Presentation Format: _den_neu
Dataset Creation: Wed Oct 23 04:34:23 2013 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3) 0	30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3) 10			



Master Calibration

	Density			Far Detector		Near Detector	
Magnesium	1.710	g/cc		1015.91		497.51	cps
Aluminum	2.600	g/cc		227.67		350.20	cps
Spine Angle = 76.79				Density/Spine Ratio = 0.579			
	Size			Reading			
Small Ring	8.00	in		3.21		V	
Large Ring	14.00	in		5.46		V	

Compensated Neutron Calibration Report

Serial Number: 6I
Tool Model: 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: #8
Tool Model: OPEN
Performed: Mon Jun 13 16:56:43 2011

Calibrator Value: 150.0 GAPI

Background Reading: 0.0 cps
Calibrator Reading: 175.0 cps

Sensitivity: 0.8371 GAPI/cps