



NABORS

**COMPLETION
& PRODUCTION
SERVICES CO.**

COMPENSATED DENSITY/NEUTRON LOG

Company		GORE OIL COMPANY	
Well		CARMICHAEL #2	
Field		WILDCAT	
County		ROOKS	
State		KANSAS	
Location:		API # : 15-163-24139-0000 1400' FNL & 2970' FEL	
SEC 22 TWP 9S RGE 18W		Other Services DIL/MEL SONIC	
Permanent Datum Log Measured From Drilling Measured From		GROUND LEVEL Elevation KELLY BUSHING 8' A.G.L. KELLY BUSHING	
Date		10/23/13	
Run Number		ONE	
Depth Driller		3800	
Depth Logger		3801	
Bottom Logged Interval		3777	
Top Log Interval		3000	
Casing Driller		8 5/8" @ 265	
Casing Logger		263	
Bit Size		7 7/8	
Type Fluid in Hole		CHEMICAL MUD	
Density / Viscosity		9.1/49	
pH / Fluid Loss		9.5/8.8	
Source of Sample		FLOWLINE	
Rim @ Meas. Temp		.85 @ 87F	
Rmf @ Meas. Temp		.63 @ 87F	
Rmc @ Meas. Temp		1.02 @ 87F	
Source of Rmf / Rmc		MEASURED	
Rim @ BHT		.64 @ 114F	
Time Circulation Stopped		2 HOURS	
Time Logger on Bottom		114F	
Maximum Recorded Temperature		680	
Equipment Number		HAYS, KS.	
Location		JASON CAPPELLUCCI	
Recorded By		CHUCK SCHMALTZ	
Witnessed By			

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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:

PLAINVILLE, KS. - 1 1/2 WEST TO RD. 16 - 1 1/2 NORTH - EAST & NORTH INTO

Database File:

010949ddn.db

Dataset Pathname:

pass3.1

Presentation Format:

_den_neu

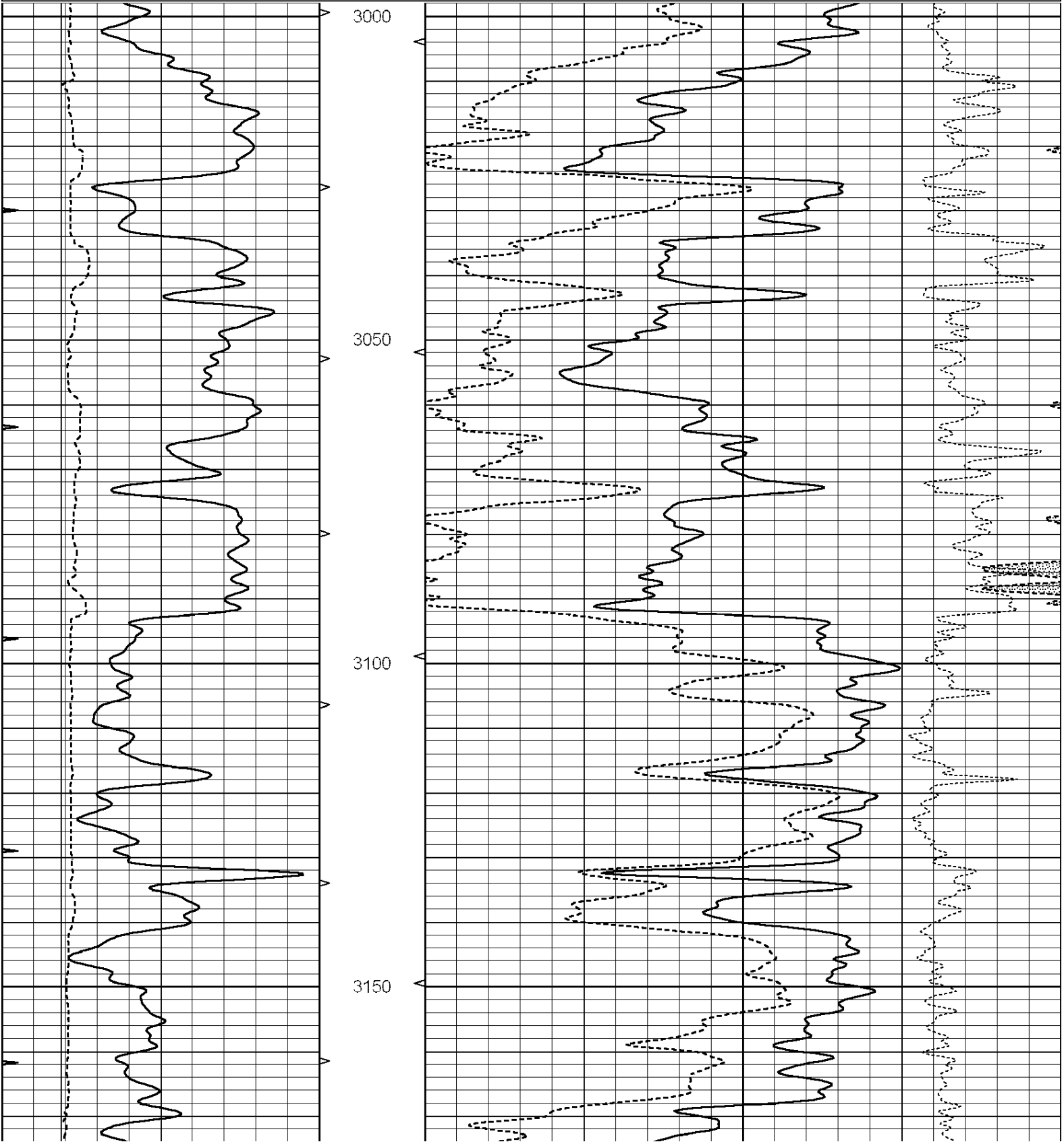
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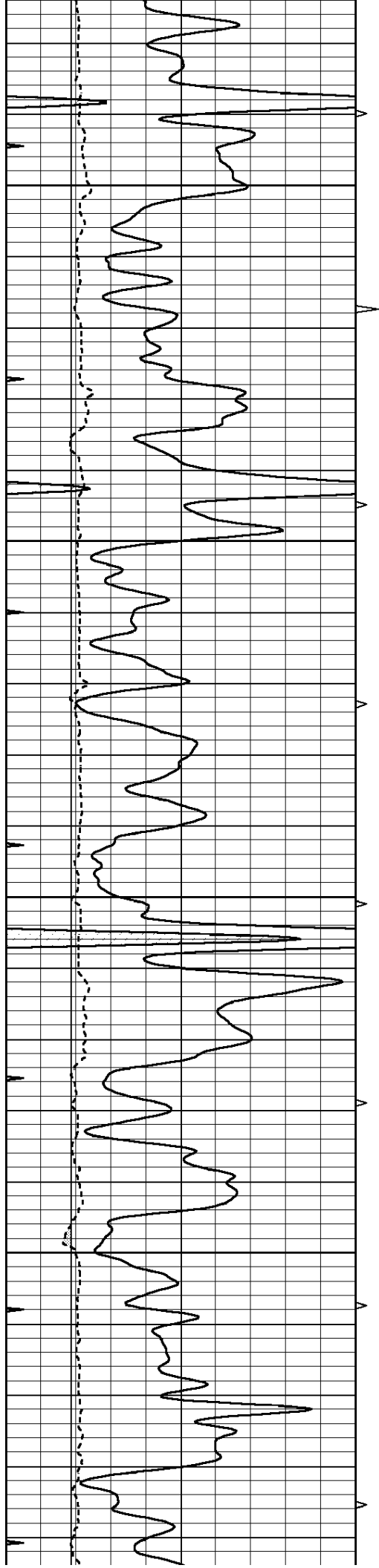
Wed Oct 23 19:22:50 2013 by Calc Open-Cased 090629

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		



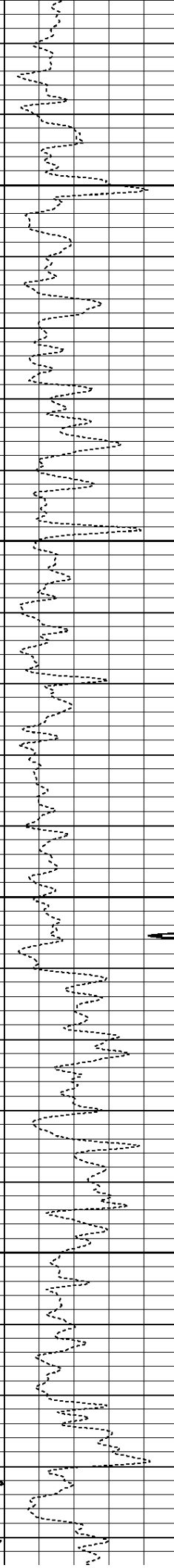
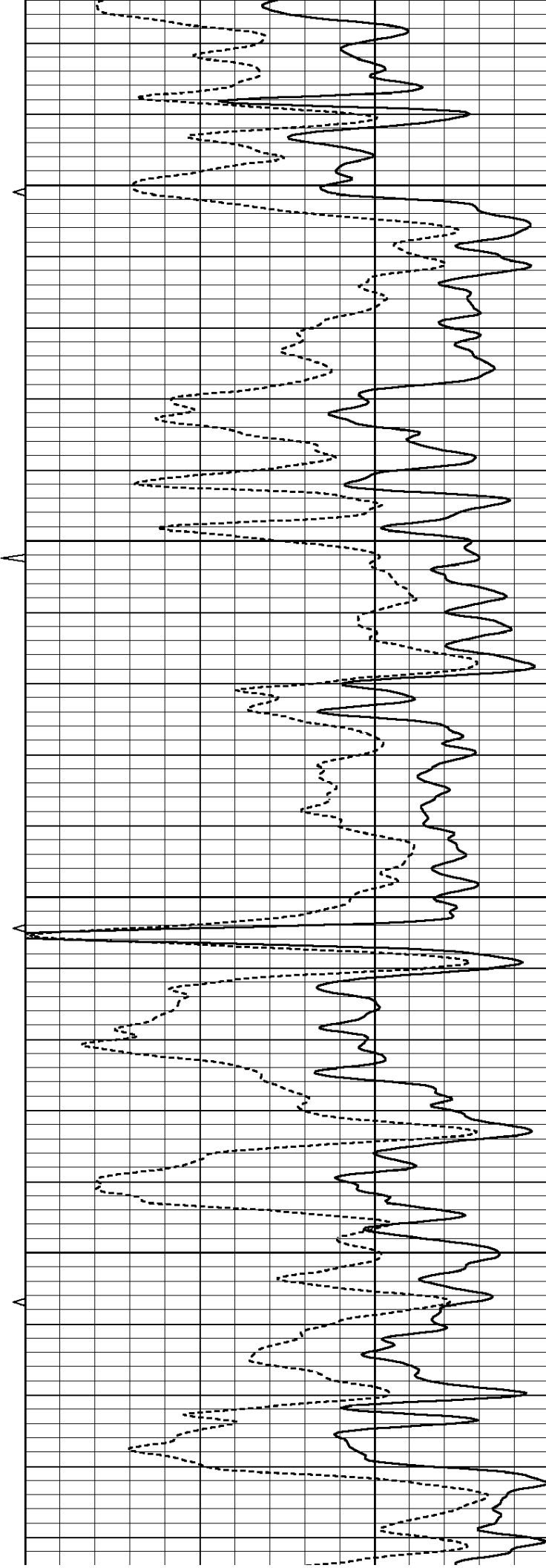


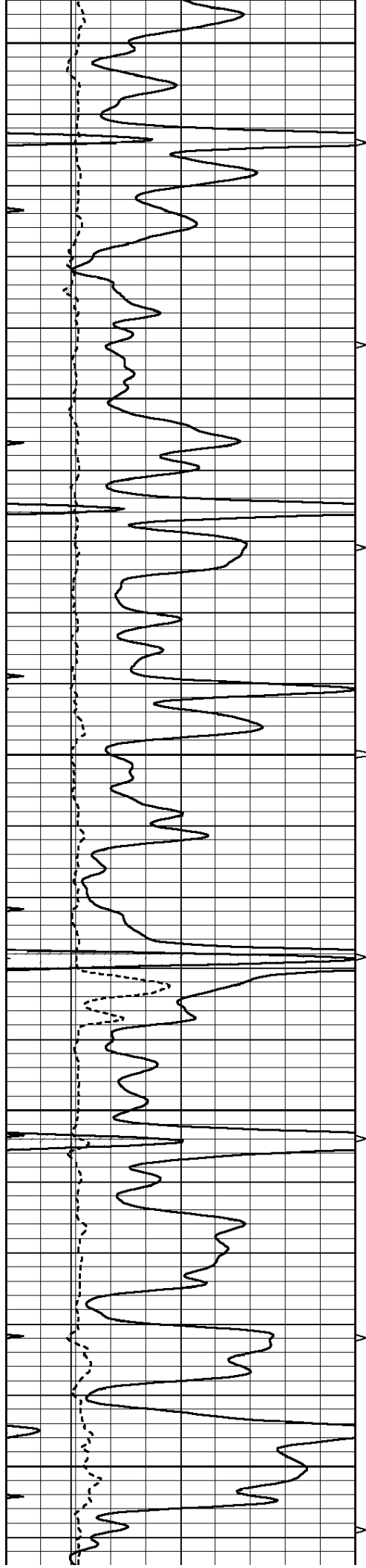
3200

3250

3300

3350





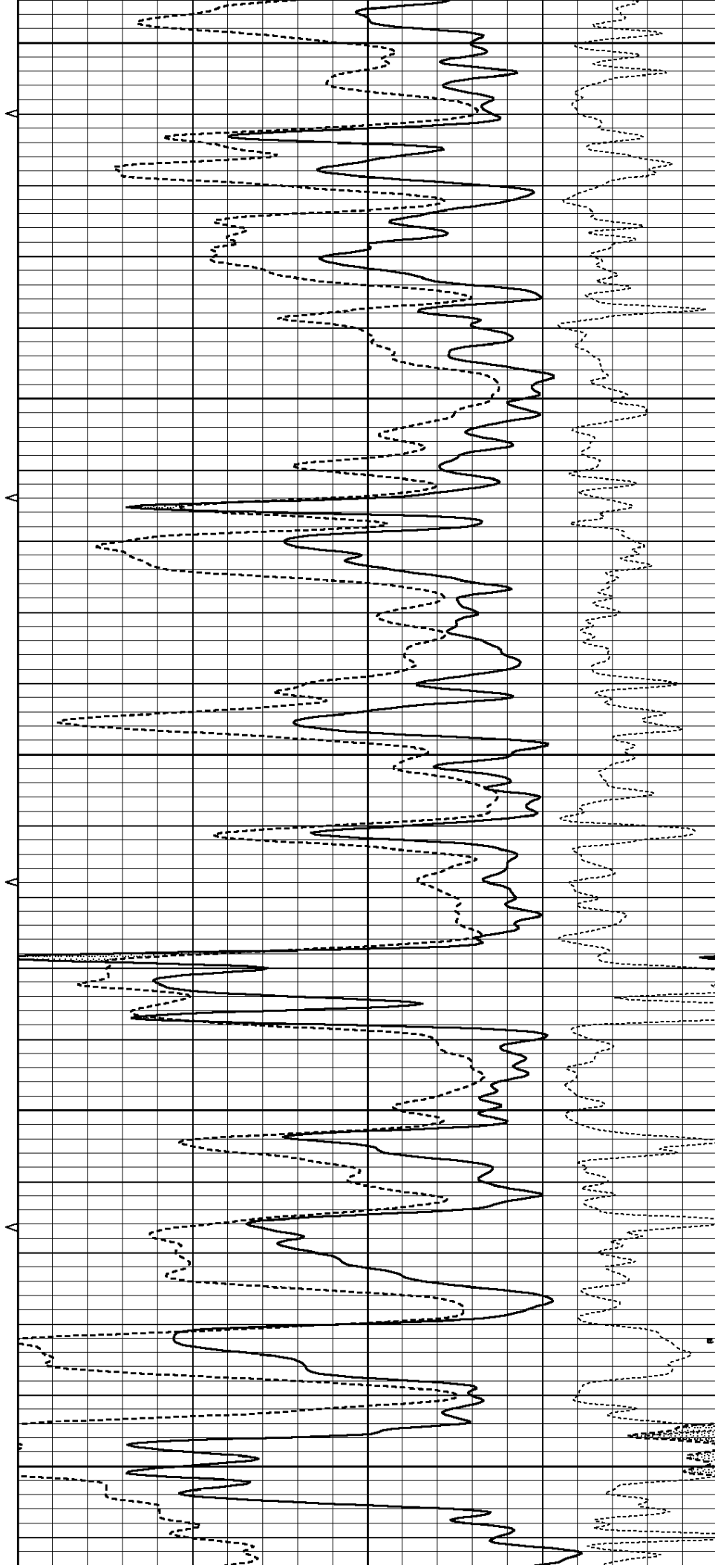
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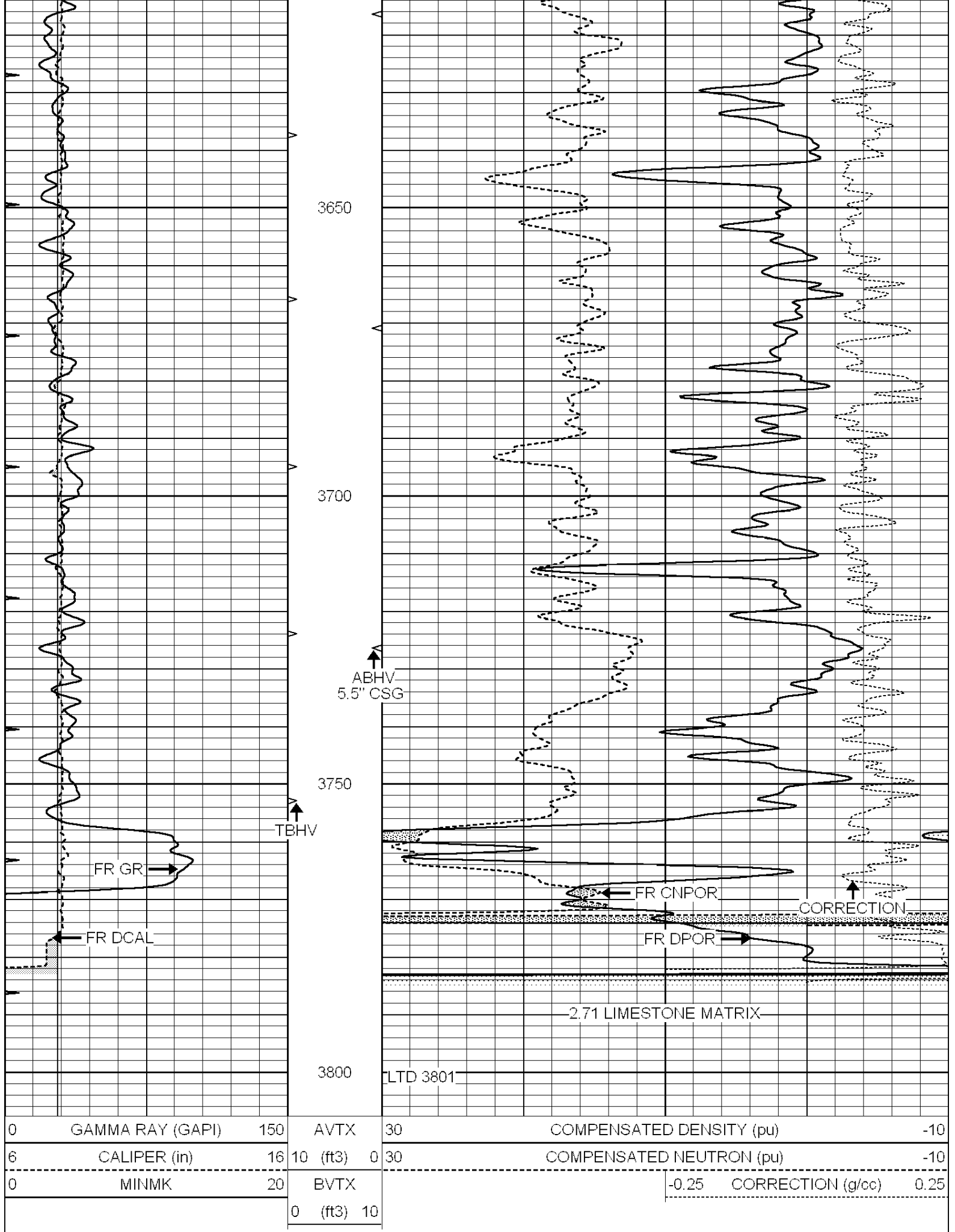
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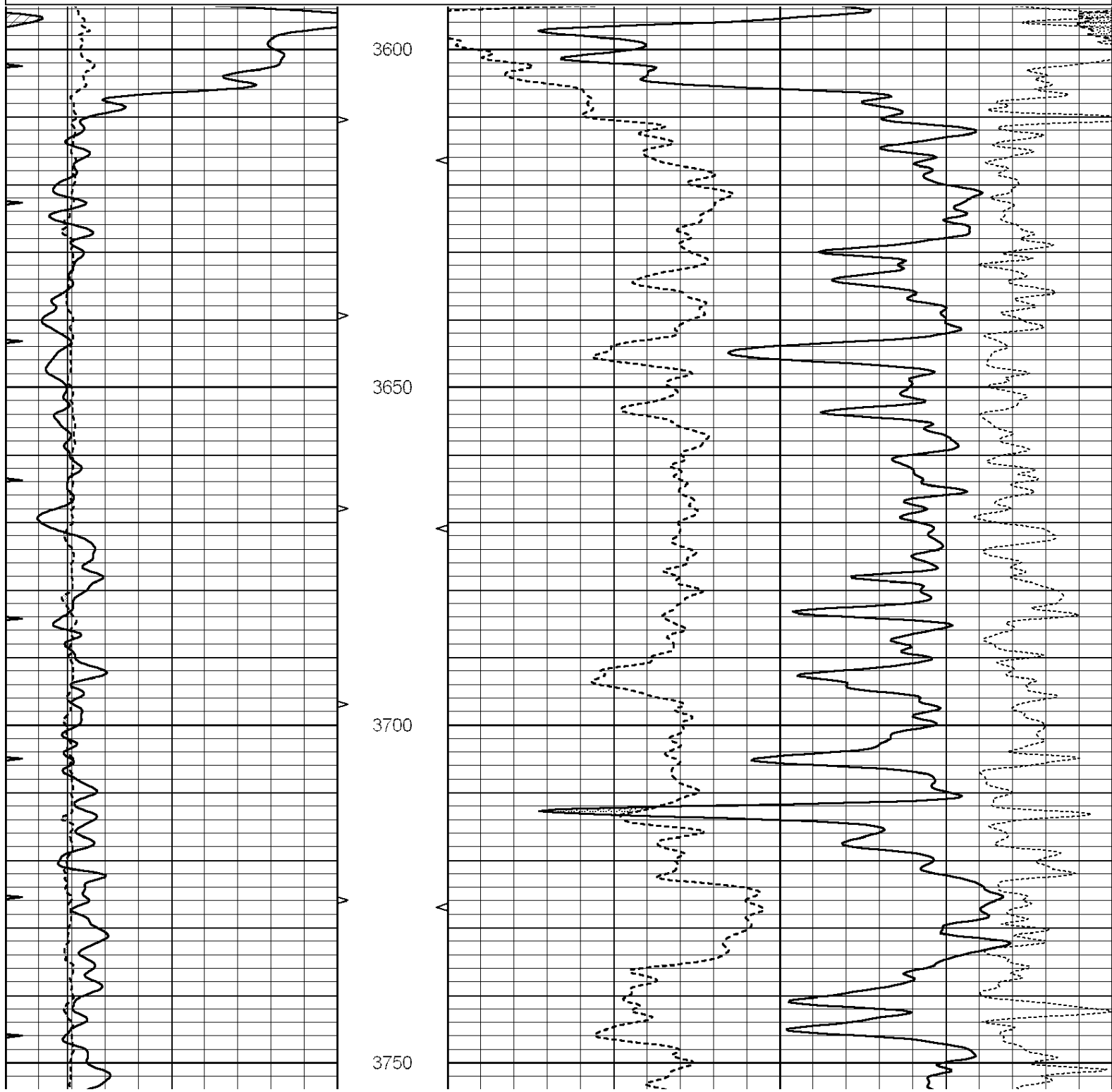


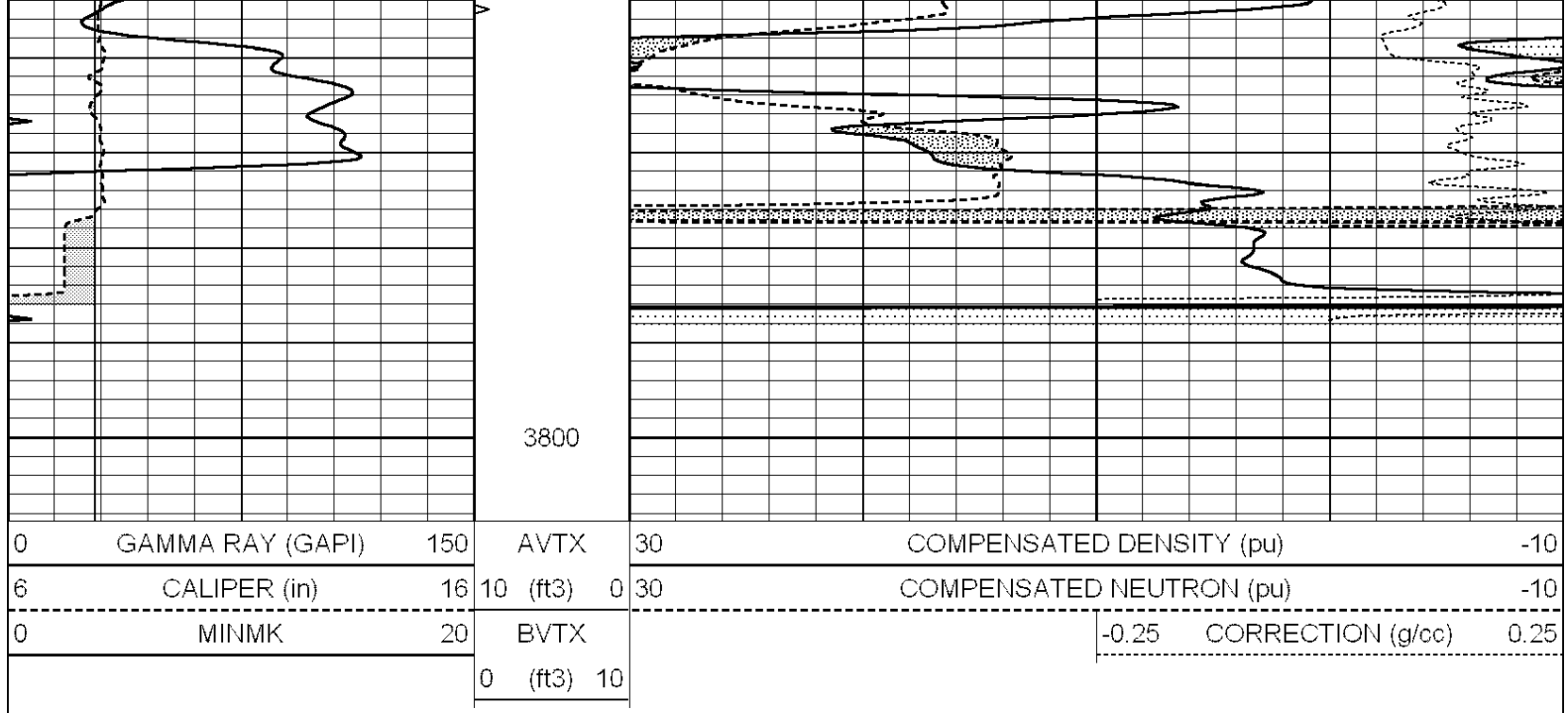
0	GAMMA RAY (GAPI)	150	AVTX	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25	CORRECTION (g/cc)
			0 (ft3)	10		0.25

REPEAT SECTION

Database File: 010949ddn.db
 Dataset Pathname: pass2.1
 Presentation Format: _den_neu
 Dataset Creation: Wed Oct 23 19:14:56 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	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	BVTX		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		





Calibration Report

Database File: 010949ddn.db
 Dataset Pathname: pass3.1
 Dataset Creation: Wed Oct 23 19:22:50 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE8-DILG
 Surface Cal Performed: Fri Aug 01 06:33:19 2008
 Downhole Cal Performed: Mon Jul 28 11:08:27 2008
 After Survey Verification Performed: Mon Jul 28 11:08:27 2008

Surface Calibration

Readings				References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	0.015	0.648	V	0.000	400.000	mmho/m	632.616	-9.730
Medium	0.029	0.796	V	0.000	464.000	mmho/m	605.049	-17.680
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.017	0.657	V	0.000	400.000	mmho/m	625.153	-10.619
Medium	0.016	0.757	V	0.000	464.000	mmho/m	625.992	-9.739

Downhole Calibration

Readings				References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	2.011	405.777	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	7.590	503.393	mmho/m	1.000	0.000
LL3		7.500	V		1500.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		3800.000	mmho-m		

After Survey Verification

Readings				Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
Medium	0.000	0.000	mmho/m	0.000	0.000	mmho/m	0.000	0.000
LL3		1.000	Ohm-m		1.000	Ohm-m		

0.000	Ohm-m	0.000	Ohm-m
1.000	mmho-m	1.000	mmho-m
Compensated Density Calibration Report			
Serial-Model:		GEAR4-GEARHART	
Source / Verifier:		143 / 143	
Master Calibration Performed:		Mon Mar 19 19:07:19 2012	
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	