



SUPERIOR
Hays,
Kansas

COMPENSATED
NEUTRON / DENSITY
LOG

Company	CAERUS KANSAS, LLC.	Company	CAERUS KANSAS, LLC.
Well	MORTIMER #31-32	Well	MORTIMER #31-32
Field	SETTE	Field	SETTE
County	BARTON	County	BARTON
State	KANSAS	State	KANSAS
Location:	API # : 15-009-25680-0000 2310' FNL & 1490' FEL E-2/SE/SW/NE	Other Services DIL/MEL SON	
Permanent Datum	GROUND LEVEL	Elevation	1851
Log Measured From	KELLY BUSHING 13' A.G.L.		
Drilling Measured From	KELLY BUSHING		
SEC 31	TWP 17S	RGE 13W	
Date	4/25/12		
Run Number	ONE		
Depth Driller	3420		
Depth Logger	3421		
Bottom Logged Interval	3397		
Top Log Interval	2550		
Casing Driller	8 5/8" @ 846'		
Casing Logger	843		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 4000 PPM	
Density / Viscosity	9.0/56		
pH / Fluid Loss	9.0/8.0		
Source of Sample	FLOWLINE		
Rin @ Meas. Temp	.52 @ 82F		
Rinf @ Meas. Temp	.39 @ 82F		
Rinc @ Meas. Temp	.62 @ 82F		
Source of Rinf / Rinc	MEASURED		
Rin @ BHT	.38 @ 110F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	110F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	JEFF LAWLER		

<<< Fold Here >>>

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 (785) 628-6395
DIRECTIONS
RUSSELL, KS. - S. TO INTERSECTION OF HWY 281 & HWY 4
3 E. TO CURVE - 1/2 S. ON CURVE - W. INTO

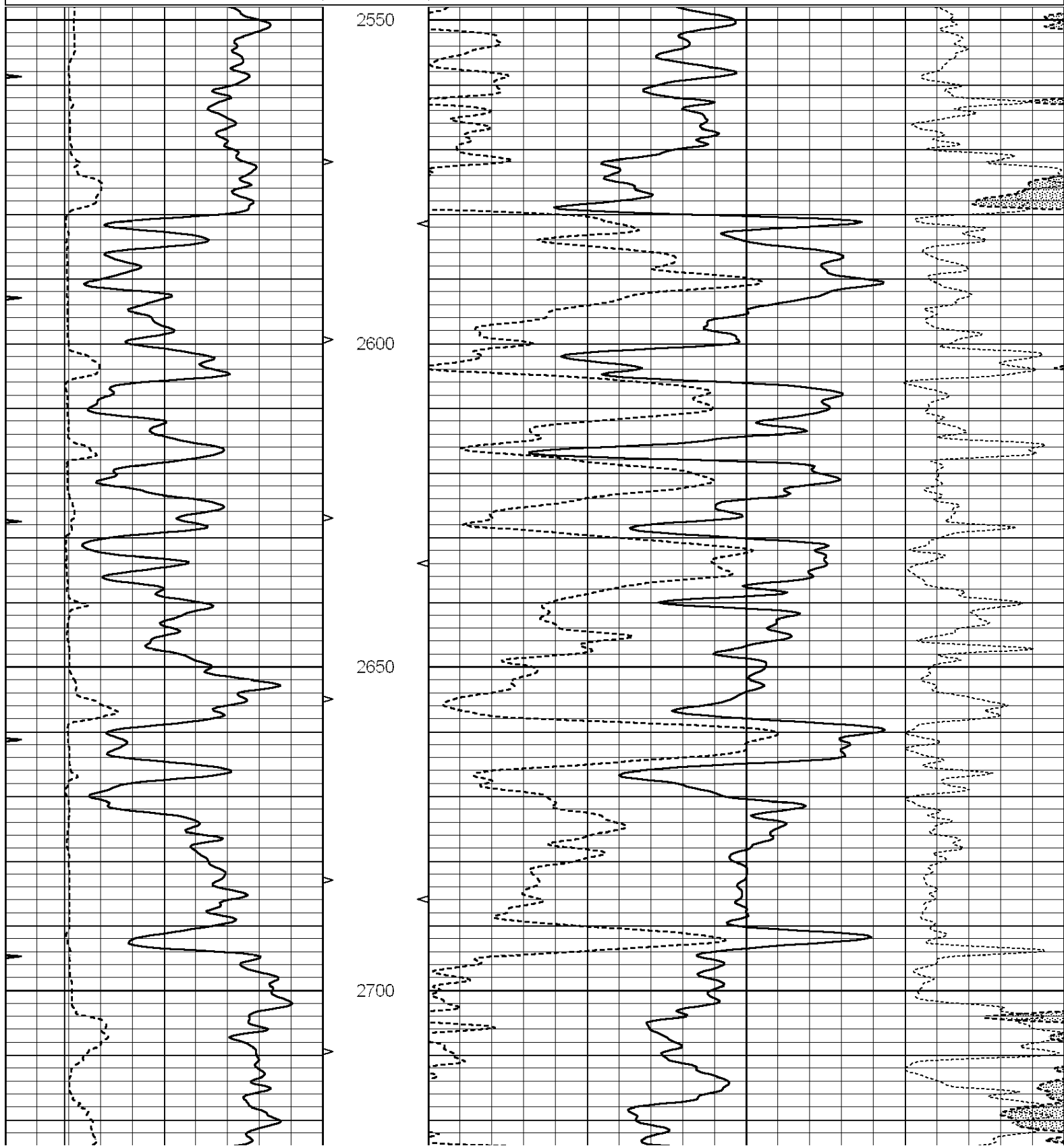


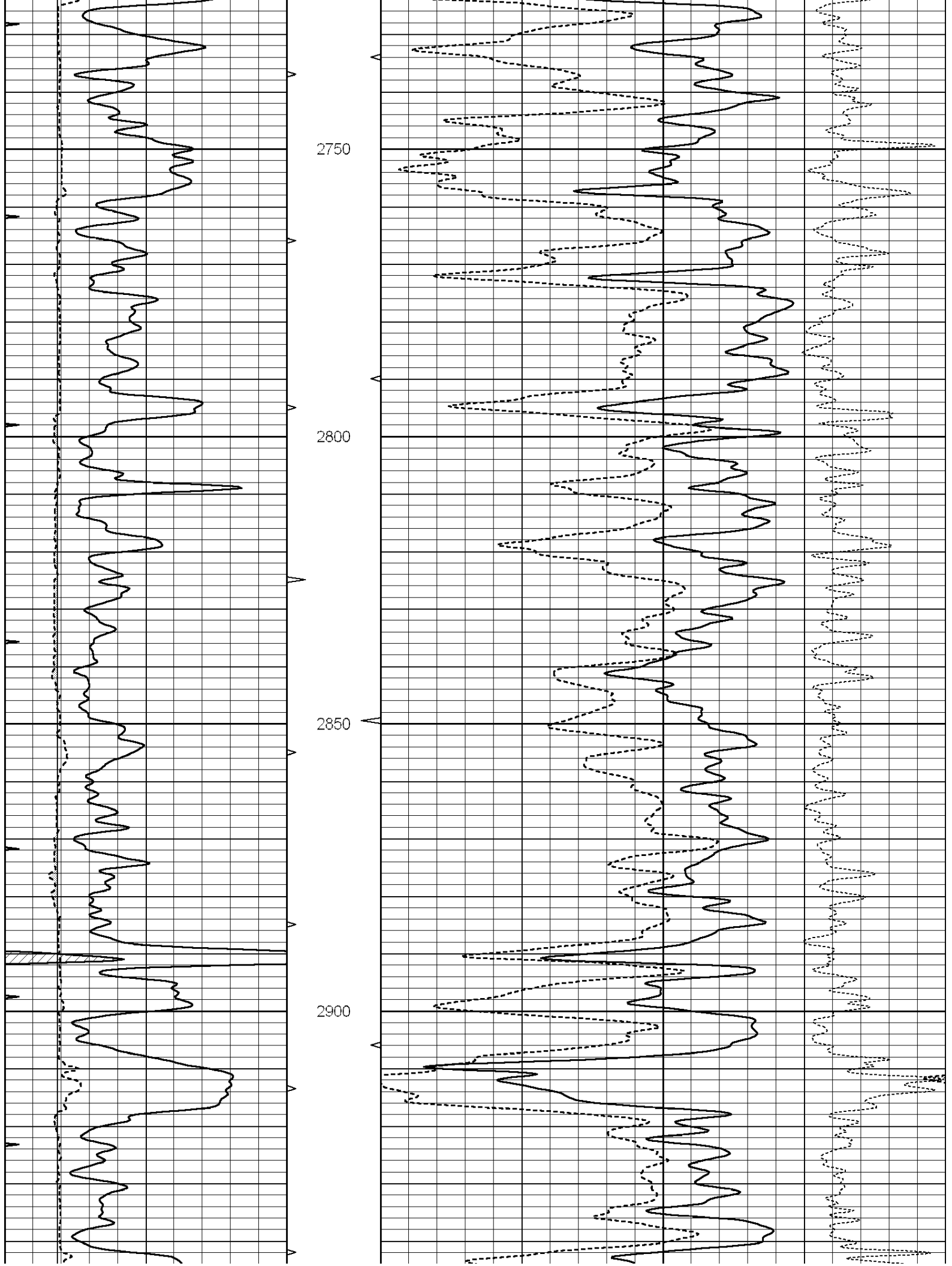
SUPERIOR
Hays,
Kansas

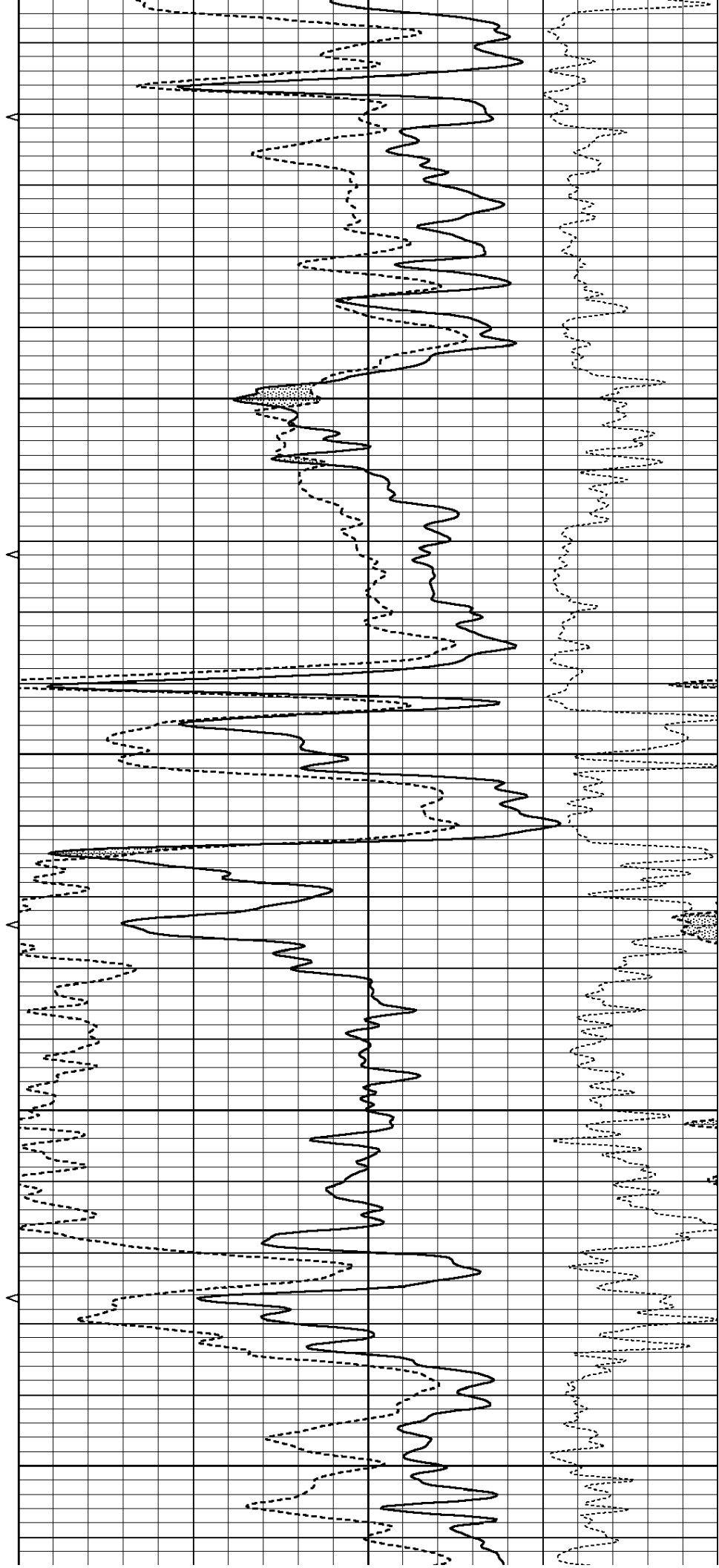
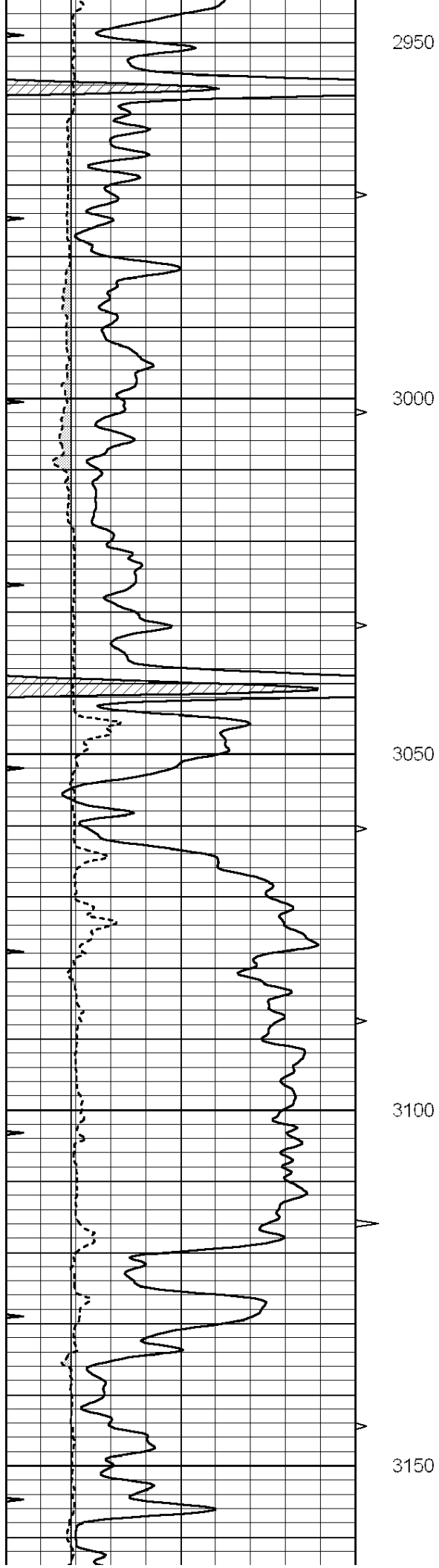
MAIN SECTION

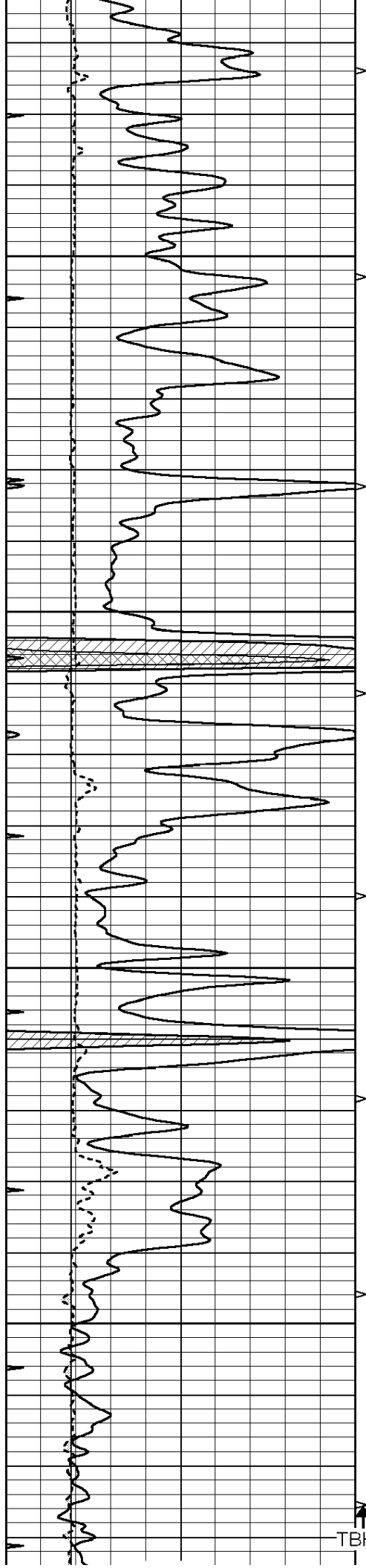
Database File: 008849ddn.db
 Dataset Pathname: pass4.1
 Presentation Format: _den_neu
 Dataset Creation: Wed Apr 25 21:23:30 2012 by Calc Open-Cased 090629
 Charted by: Depth in Feet scaled 1:240

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

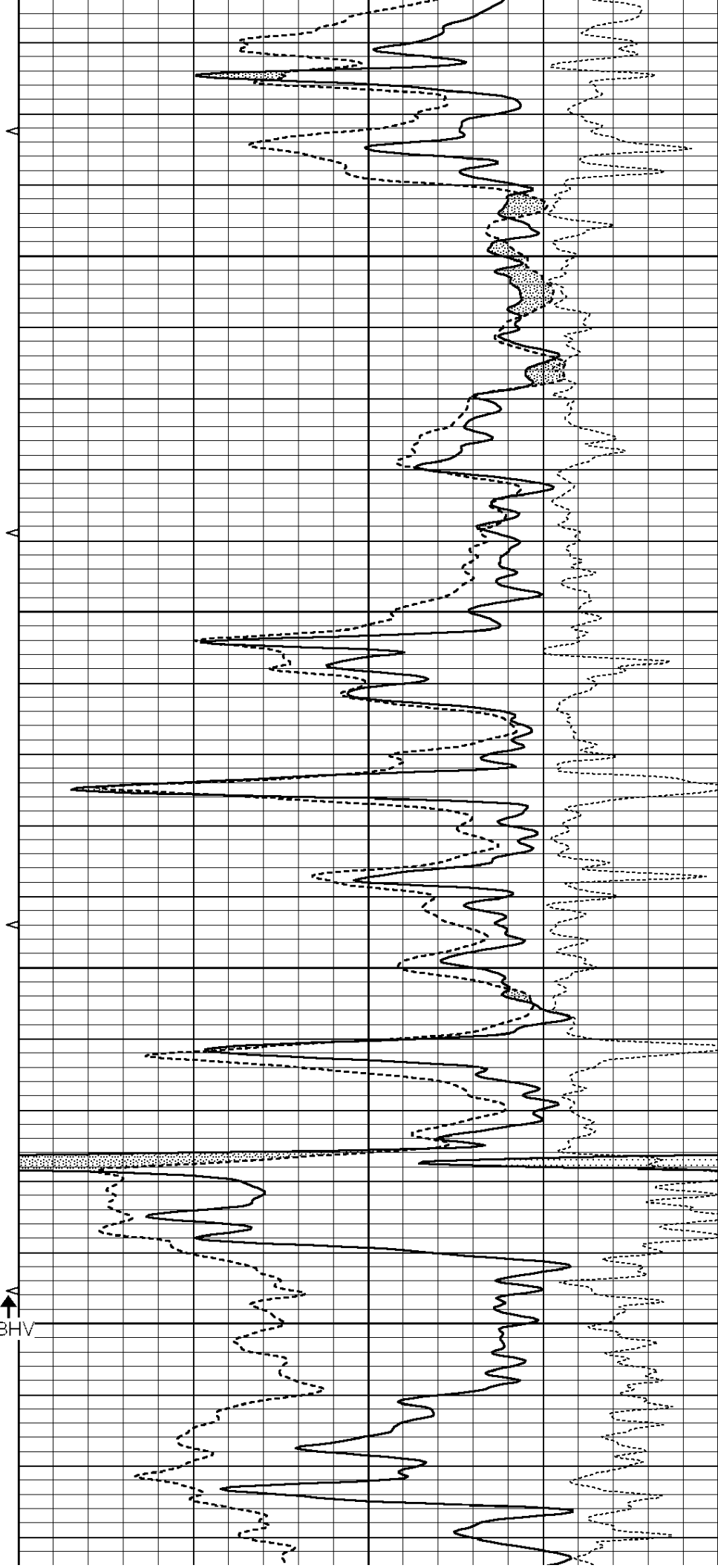
3250

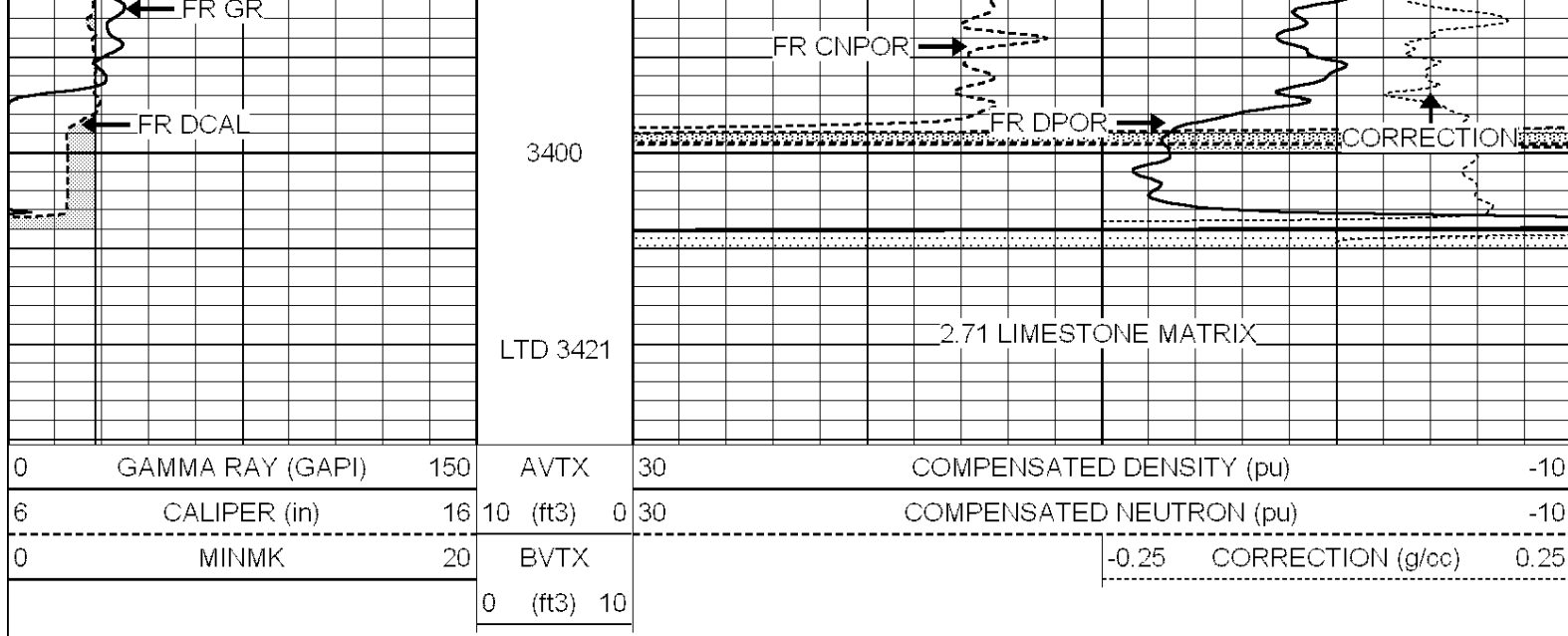
3300

3350 ABHV

5.5" CSG

TBHV







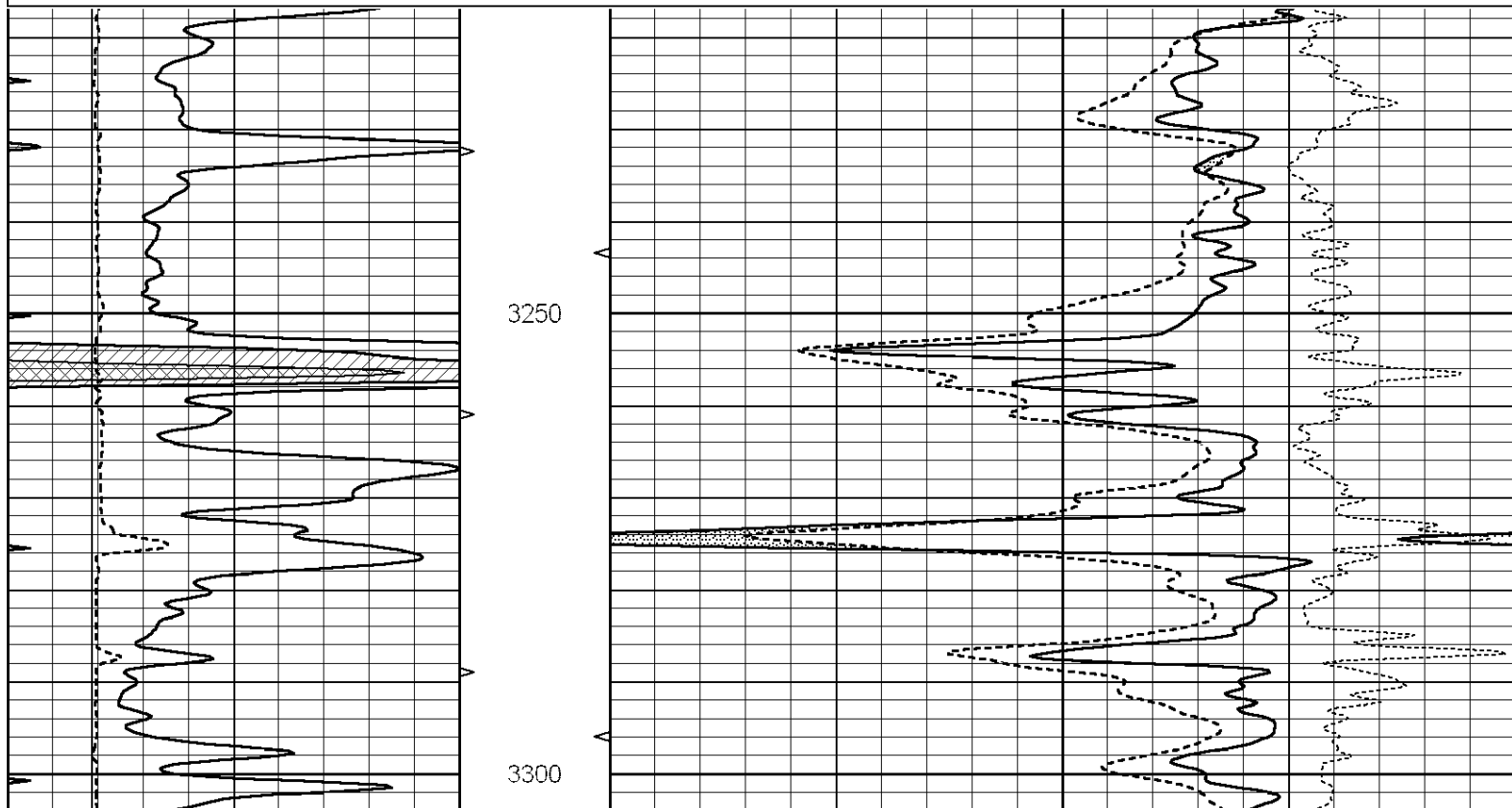
SUPERIOR

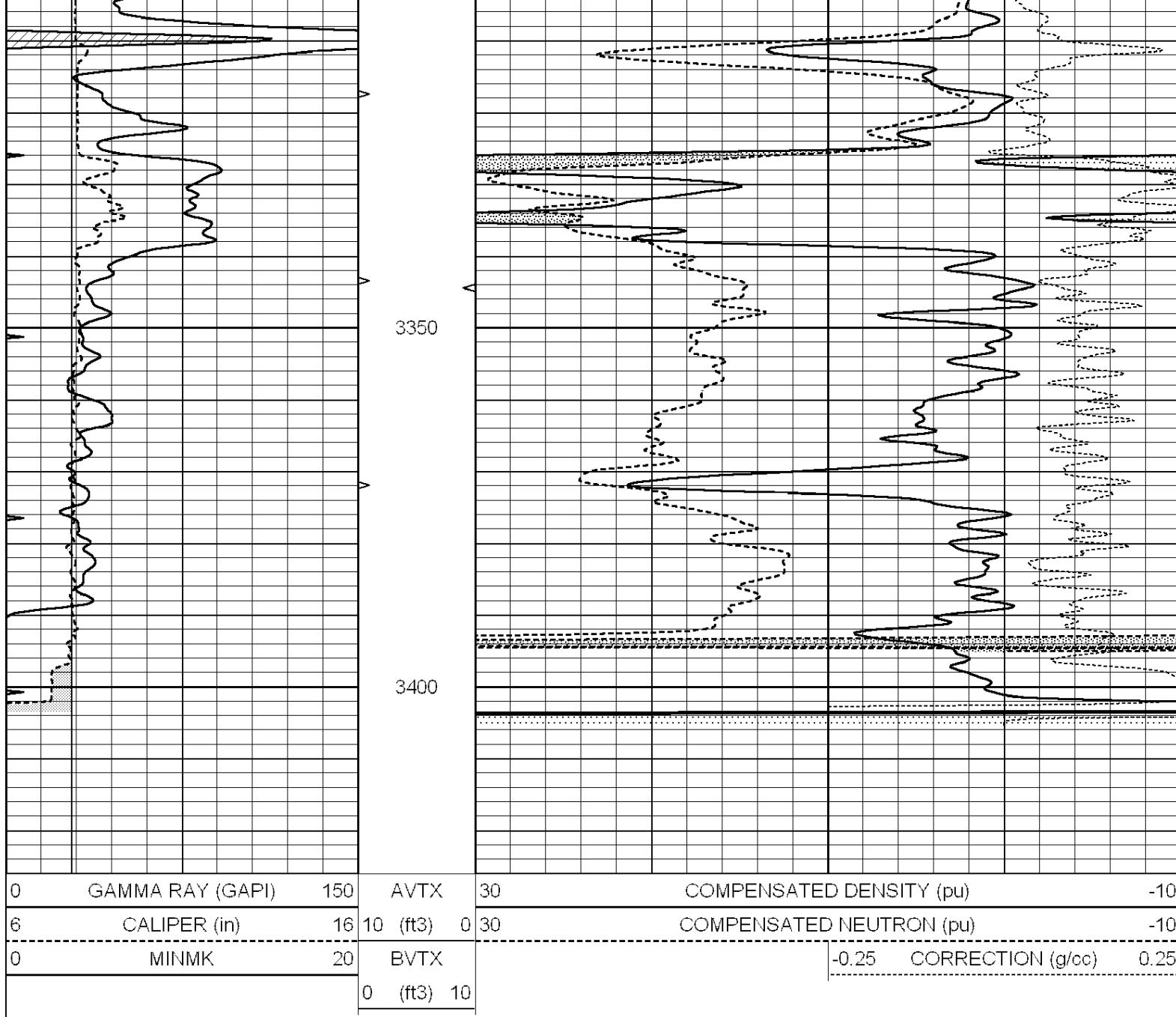
Hays,
Kansas

REPEAT SECTION

Database File: 008849ddn.db
Dataset Pathname: pass3.2
Presentation Format: _den_neu
Dataset Creation: Wed Apr 25 21:17:10 2012 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		



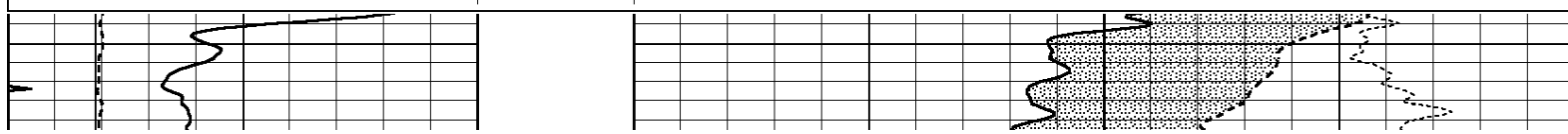


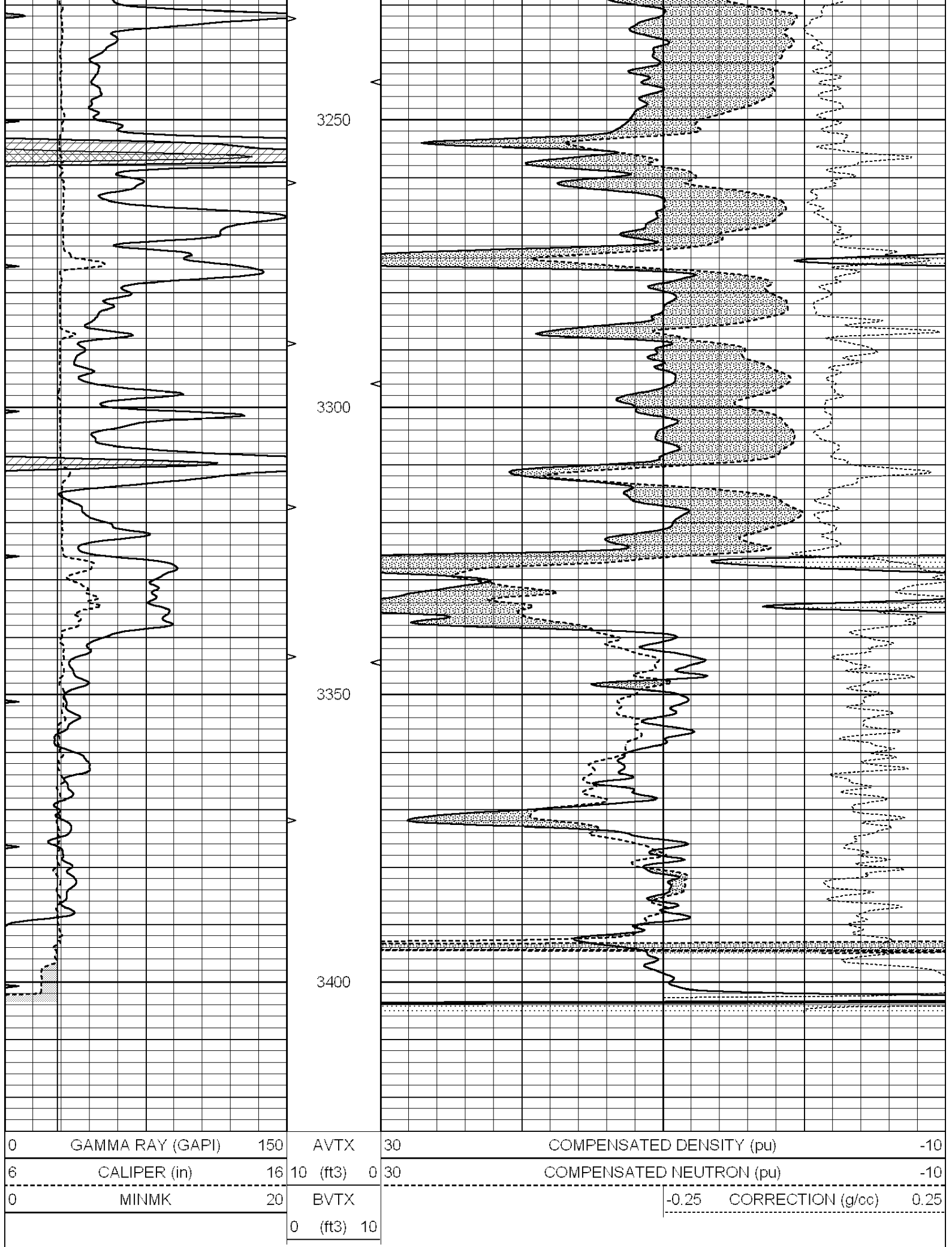
SUPERIOR
Hays,
Kansas

DOLOMITE MATRIX

Database File: 008849ddn.db
 Dataset Pathname: pass3.4
 Presentation Format: _den_neu
 Dataset Creation: Wed Apr 25 21:20:02 2012 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		





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

Calibration Report

Database File: 008849ddn.db
 Dataset Pathname: pass3.2
 Dataset Creation: Wed Apr 25 21:17:10 2012 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: GEAR3-GEARHART
 Source / Verifier: 143 / 143
 Master Calibration Performed: Thu Jan 26 19:46:16 2012

Master Calibration

	Density		Far Detector	Near Detector	
Magnesium	1.710	g/cc	971.18	557.33	cps
Aluminum	2.580	g/cc	212.31	367.26	cps
Spine Angle = 74.66			Density/Spine Ratio = 0.552		
	Size		Reading		
Small Ring	8.00	in	4.29	V	
Large Ring	14.00	in	6.24	V	

Compensated Neutron Calibration Report

Serial Number:		6I	
Tool Model:		G	
CALIBRATION			
Detector	Readings		Target
Short Space	1.00	cps	1.00 cps
Long Space	1.00	cps	1.00 cps
		Normalization	
		1.0000	
		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	