NABORS COMPLETION & PRODUCTION SERVICES CO.

COMPENSATED DENSITY/NEUTRON LOG

Company	DOWNING NELSON OIL COMPANY, INC.
Well	SEITZ BARNHARDT "C" #2
Field	RIDGEWAY
County	TREGO
State	KANSAS

Company DOWNING NELSON OIL COMPANY, INC.

Well SEITZ BARNHARDT "C" #2

Field RIDGEWAY

County TREGO State KANSAS

Location: API # : 15-195-22824-0000

840' FNL & 520' FEL

SEC 34 TWP 12S RGE 21W

Other Services: DIL/MEL, SONIC

Permanent Datum	GROUND LEVEL	Elevation 2208	Elevation: K.B. 2216
Log Measured From	KELLY BUSHING 8' A.G.L.		D.F. 2214
Drilling Measured From	KELLY BUSHING		G.L. 2208

Date	11/1/12			
Run Number	ONE			
Depth Driller	3970			
Depth Logger	3970			
Bottom Logged Interval	3946			
Top Log Interval	3150			
Casing Driller	8 5/8" @ 222			
Casing Logger	222			
Bit Size	7 7/8			
Type Fluid in Hole	CHEMICAL MUD			
Density / Viscosity	9.1/54	CHLORIDES 2500 PPM		
pH / Fluid Loss	10.0/8.0			
Source of Sample	FLOWLINE			
Rm @ Meas. Temp	.90 @ 62F			
Rmf @ Meas. Temp	.67 @ 62F			
Rmc @ Meas. Temp	1.08 @ 62F			
Source of Rmf / Rmc	MEASURED			
Rm @ BHT	.48 @ 115F			
Time Circulation Stopped	2 HOURS			
Time Logger on Bottom				
Maximum Recorded Temperature	115F			
Equipment Number	680			
Location	HAYS, KS.			
Recorded By	JASON CAPPELLUCCI			
Witnessed By	RON NELSON			

<<< Fold Here >>>

Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395

DIRECTIONS

I-70 & RIGA EXIT - 1/2 N. - 1 E. - S. & W. INTO

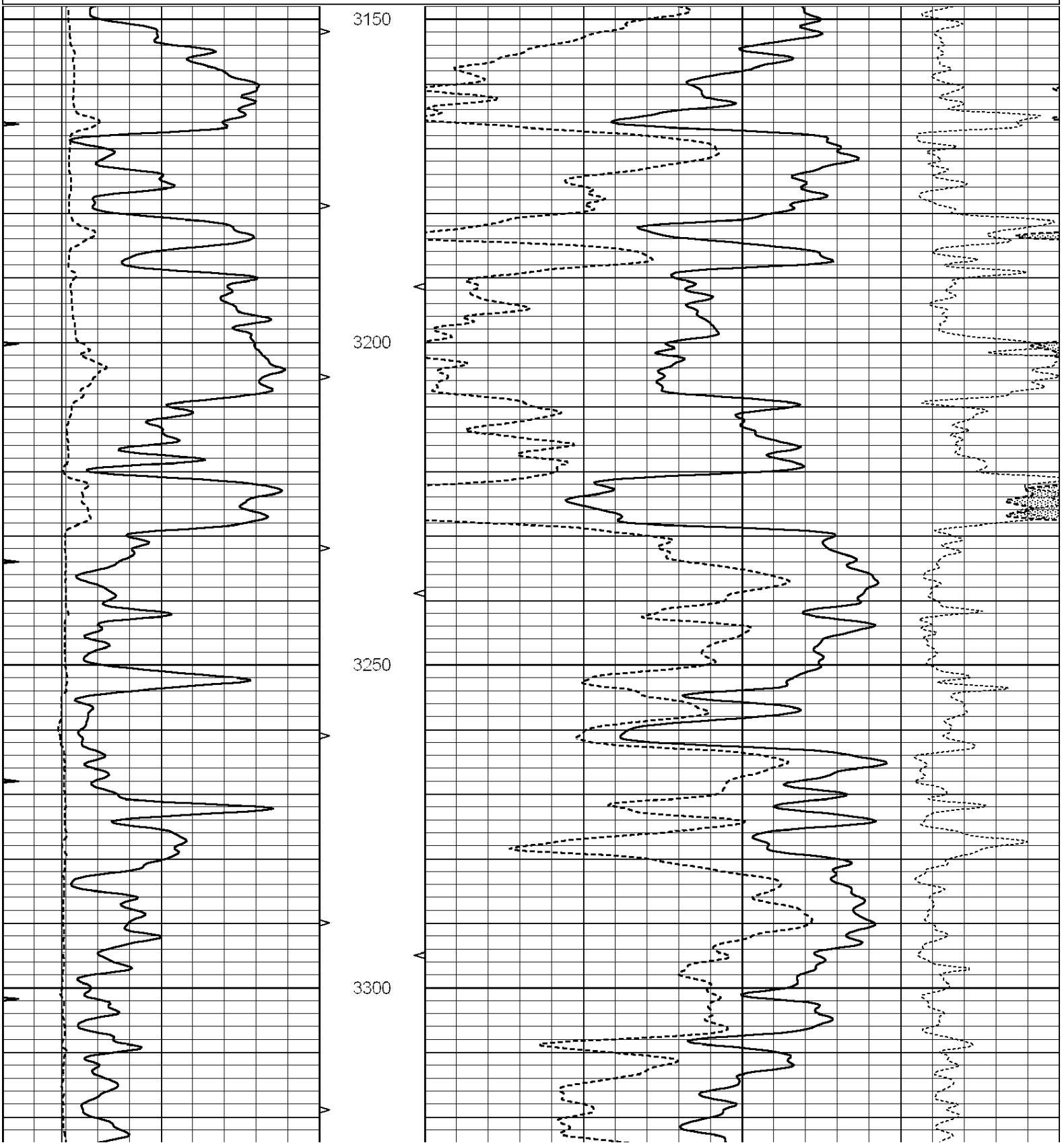
NABORS COMPLETION & PRODUCTION SERVICES CO.

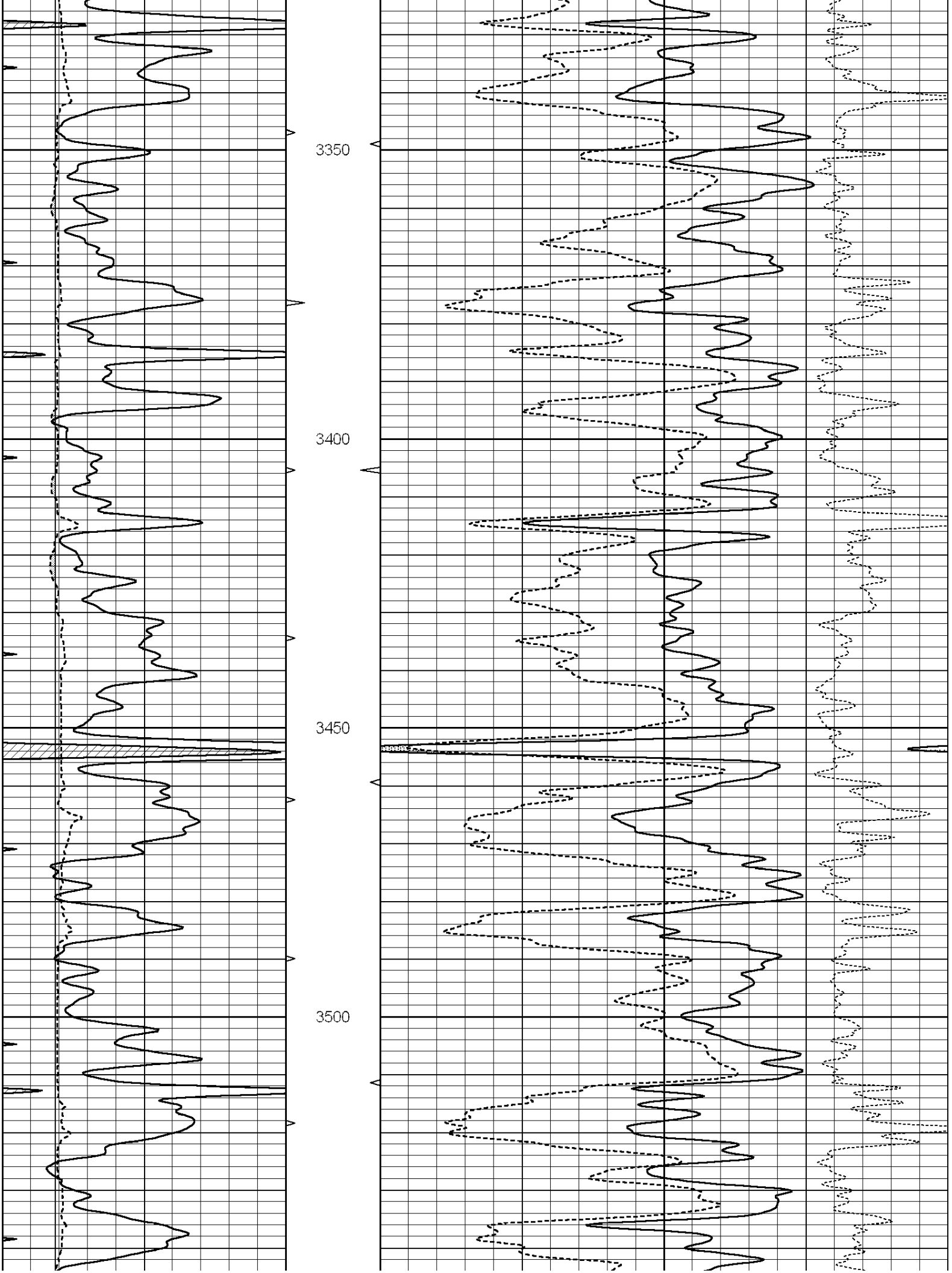
MAIN SECTION

SERVICES CO.

Database File: 009991ddn.db
Dataset Pathname: pass3.1
Presentation Format: _den_neu
Dataset Creation: Thu Nov 01 02:41:08 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			

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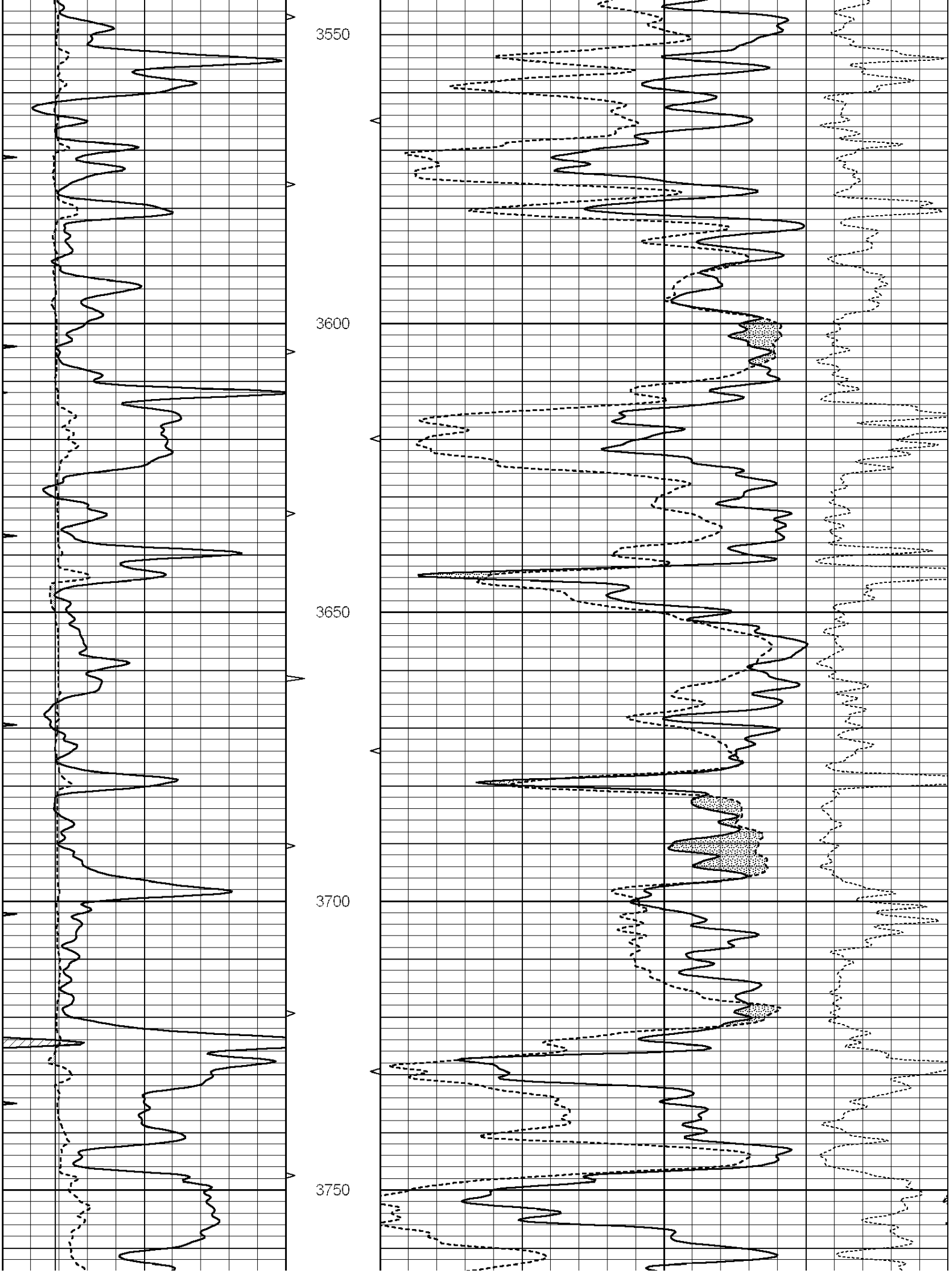
3400
3450
3500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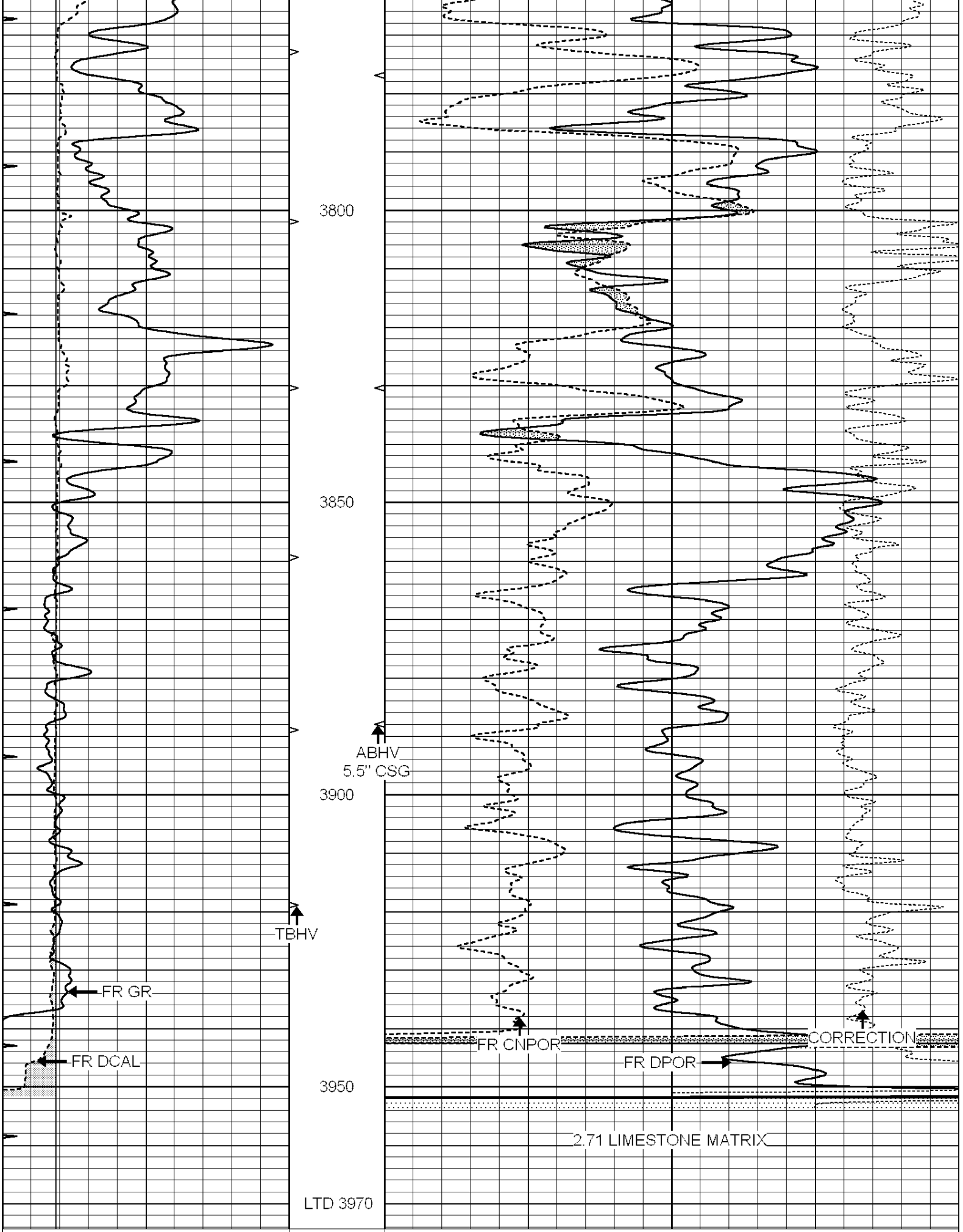

3800
3850
3900
3950
ABHV
5.5" CSG
TBHV
FR GR
FR DCAL
FR CNPOR
CORRECTION
FR DPOR
2.71 LIMESTONE MATRIX
LTD 3970
0 GAMMA RAY (GAPI) 150
AVTX
30 COMPENSATED DENSITY (pu) -10
6 CALIPER (in) 16
10 (ft3) 0
30 COMPENSATED NEUTRON (pu) -10

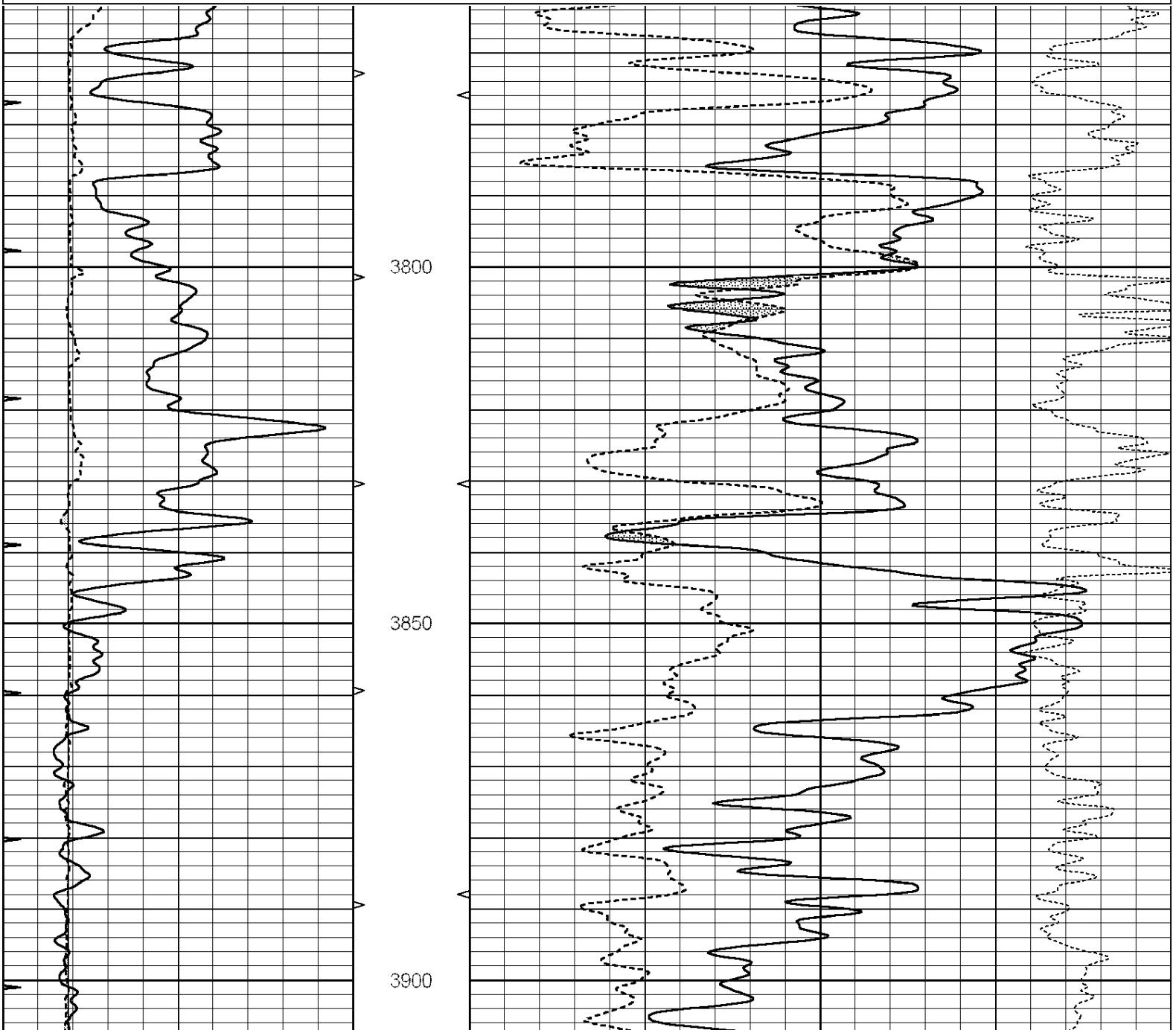
0	MINMK	20	BVTX		
			0 (ft3) 10		
				-0.25	CORRECTION (g/cc) 0.25

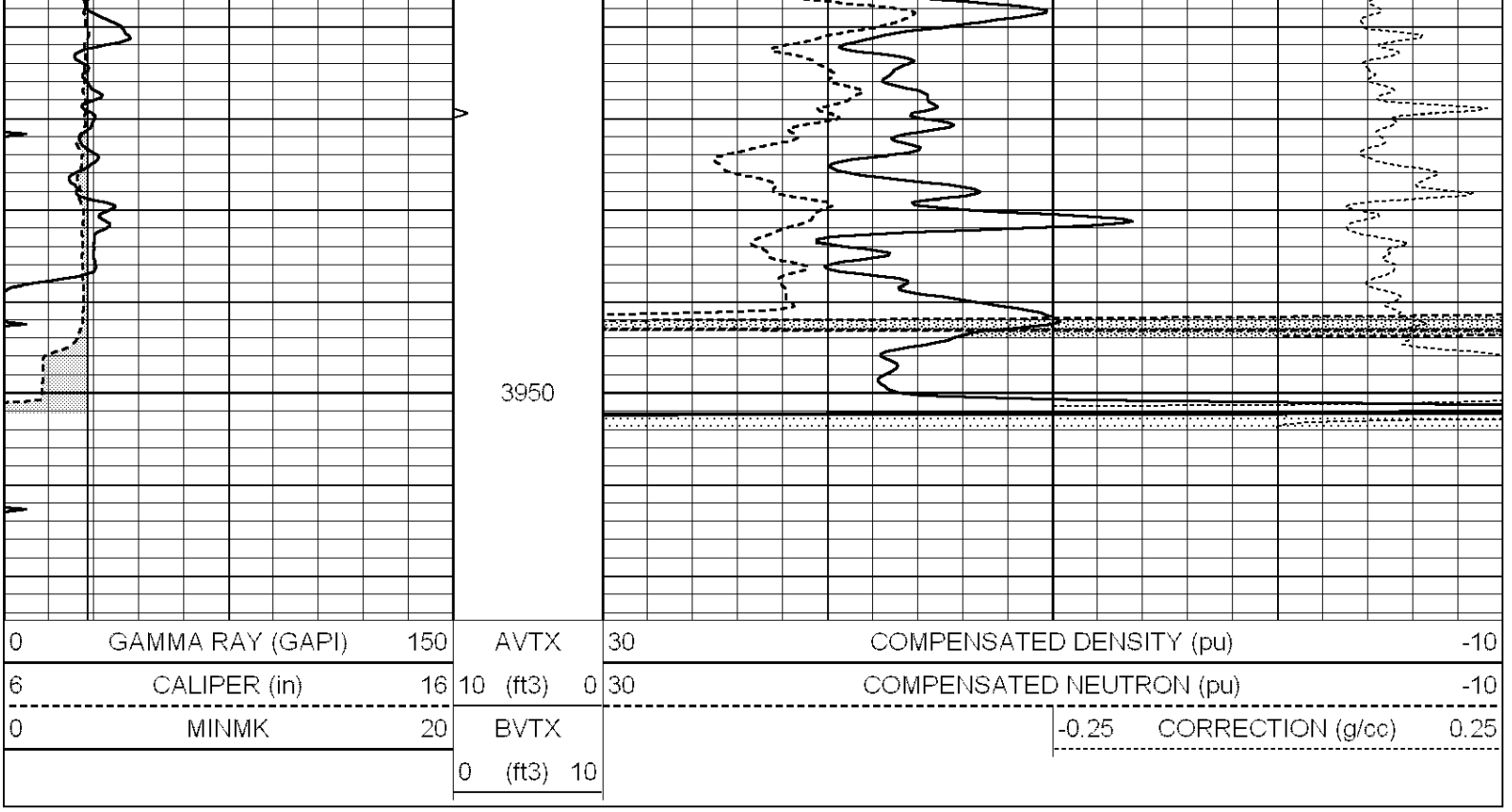
NABORS
COMPLETION & PRODUCTION SERVICES CO.

REPEAT SECTION

Database File: 009991ddn.db
Dataset Pathname: pass2.1
Presentation Format: _den_neu
Dataset Creation: Thu Nov 01 02:40:28 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		





Calibration Report

Database File: 009991ddn.db
Dataset Pathname: pass3.1
Dataset Creation: Thu Nov 01 02:41:08 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'

	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