SUPERIOR WELL SERVICES

SUPERIOR
Hays,
Kansas

COMPENSATED DENSITY/NEUTRON LOG

Company RED OAK ENERGY, INC.
Well SEIB #1-27
Field
County NESS State KANSAS
Location: API # : 15-135-25214-0000
550' FNL & 390 FEL
SEC 27 TWP 20S RGE 21W
Permanent Datum GROUND LEVEL Elevation 2212
Log Measured From KELLY BUSHING 10' A.G.L.
Drilling Measured From KELLY BUSHING

Other Services
DIL

Elevation
K.B. 2222
D.F. 2220
G.L. 2212

Company	RED OAK ENERGY, INC.		
Well	SEIB #1-27		
Field			
County	NESS		
State	KANSAS		

Date	3-8-11		
Run Number	ONE		
Depth Driller	4404		
Depth Logger	4408		
Bottom Logged Interval	4384		
Top Log Interval	3700		
Casing Driller	8 5/8" @ 225		
Casing Logger	218		
Bit Size	7 7/8		
Type Fluid in Hole	CHEMICAL MUD	CHLORIDES 8000 PPM	
Density / Viscosity	9.6/47		
pH / Fluid Loss	8.5/10.4		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	1.2 @ 41F		
Rmf @ Meas. Temp	.90 @ 41F		
Rmc @ Meas. Temp	1.4 @ 41F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.41 @ 119F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom			
Maximum Recorded Temperature	119F		
Equipment Number	680		
Location	HAYS, KS.		
Recorded By	JASON CAPPELLUCCI		
Witnessed By	KEVIN DAVIS	SEAN DEENIHAN	

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Comments

THANK YOU FOR USING SUPERIOR WELL SERVICE (785) 628-6395
DIRECTIONS
BAZINE KS. - E. TO RD. HH - 12 S. - W. INTO

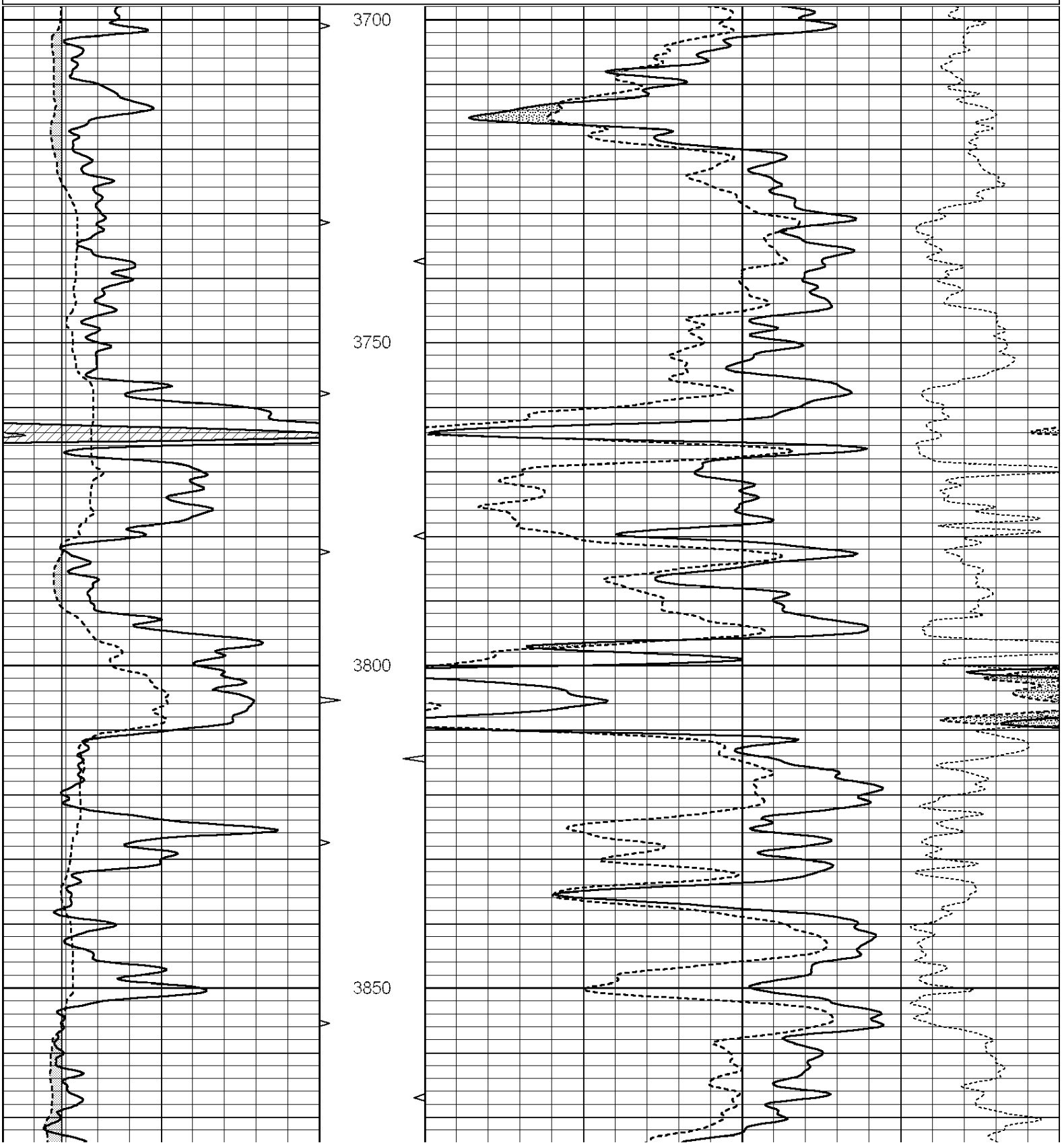
SUPERIOR WELL SERVICES

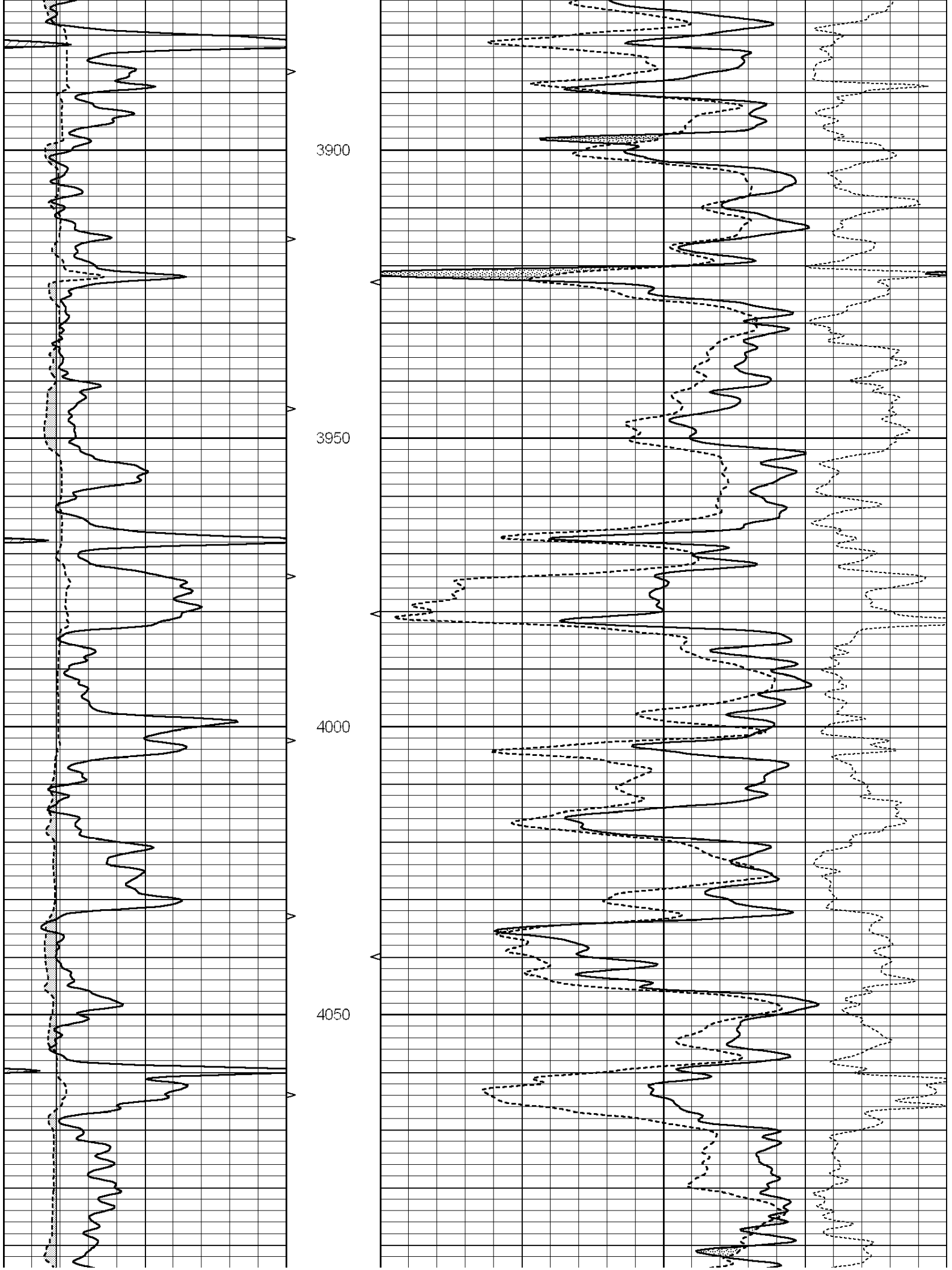
SUPERIOR
Hays,
Kansas

MAIN SECTION

Database File:	006783ddn.db
Dataset Pathname:	pass5.2
Presentation Format:	_den_neu
Dataset Creation:	Tue Mar 08 18:37:35 2011
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
		BVTX		-0.25 CORRECTION (g/cc)	0.25
		0 (ft3) 10			

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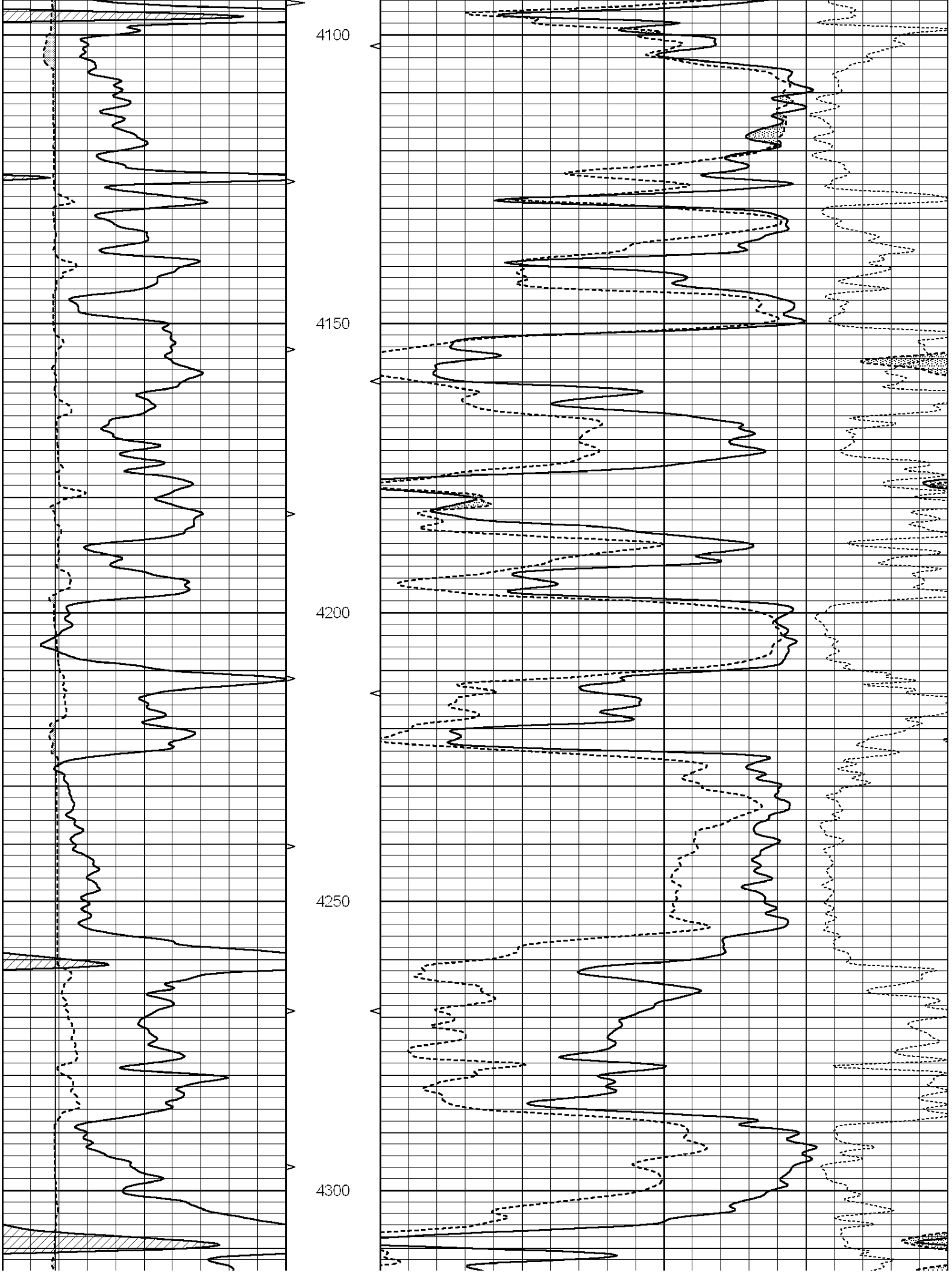
3950
4000
4050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4150
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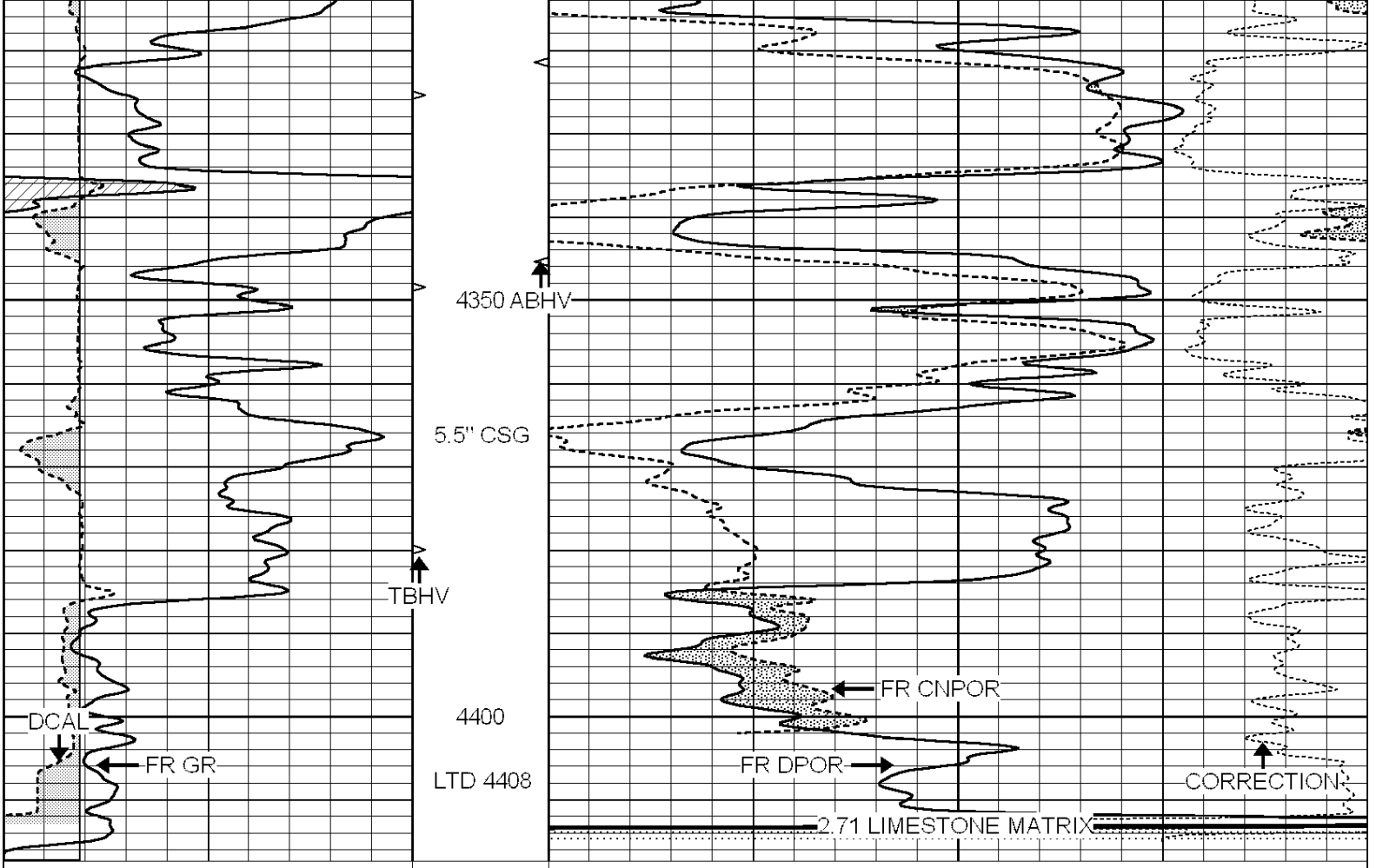
4250
4300



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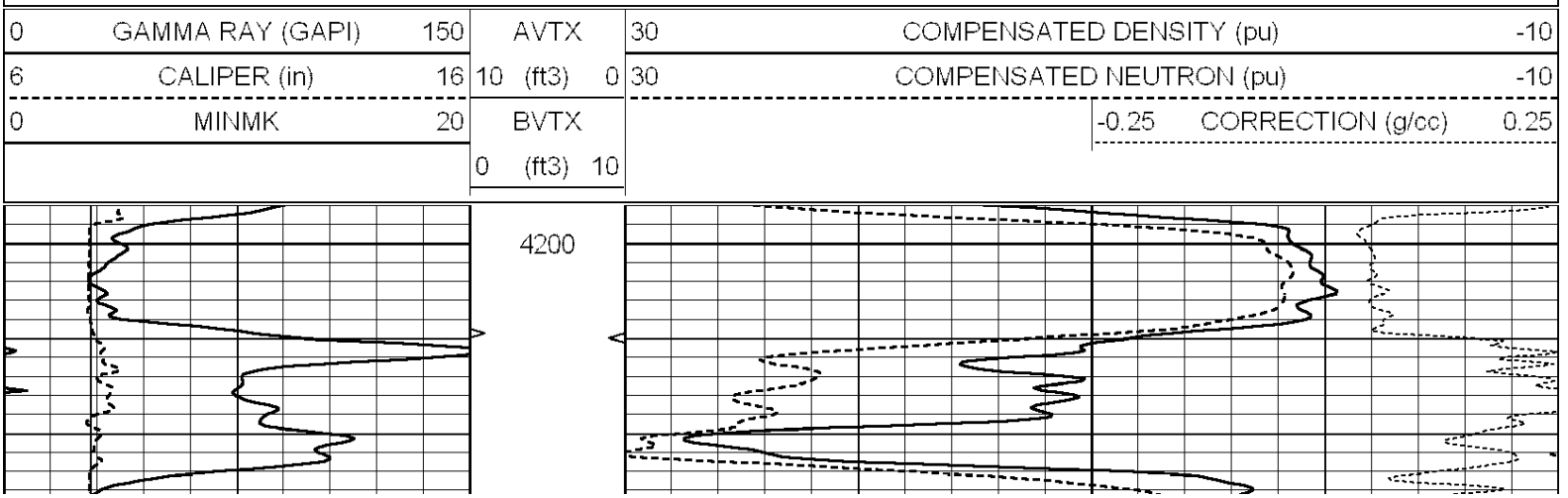
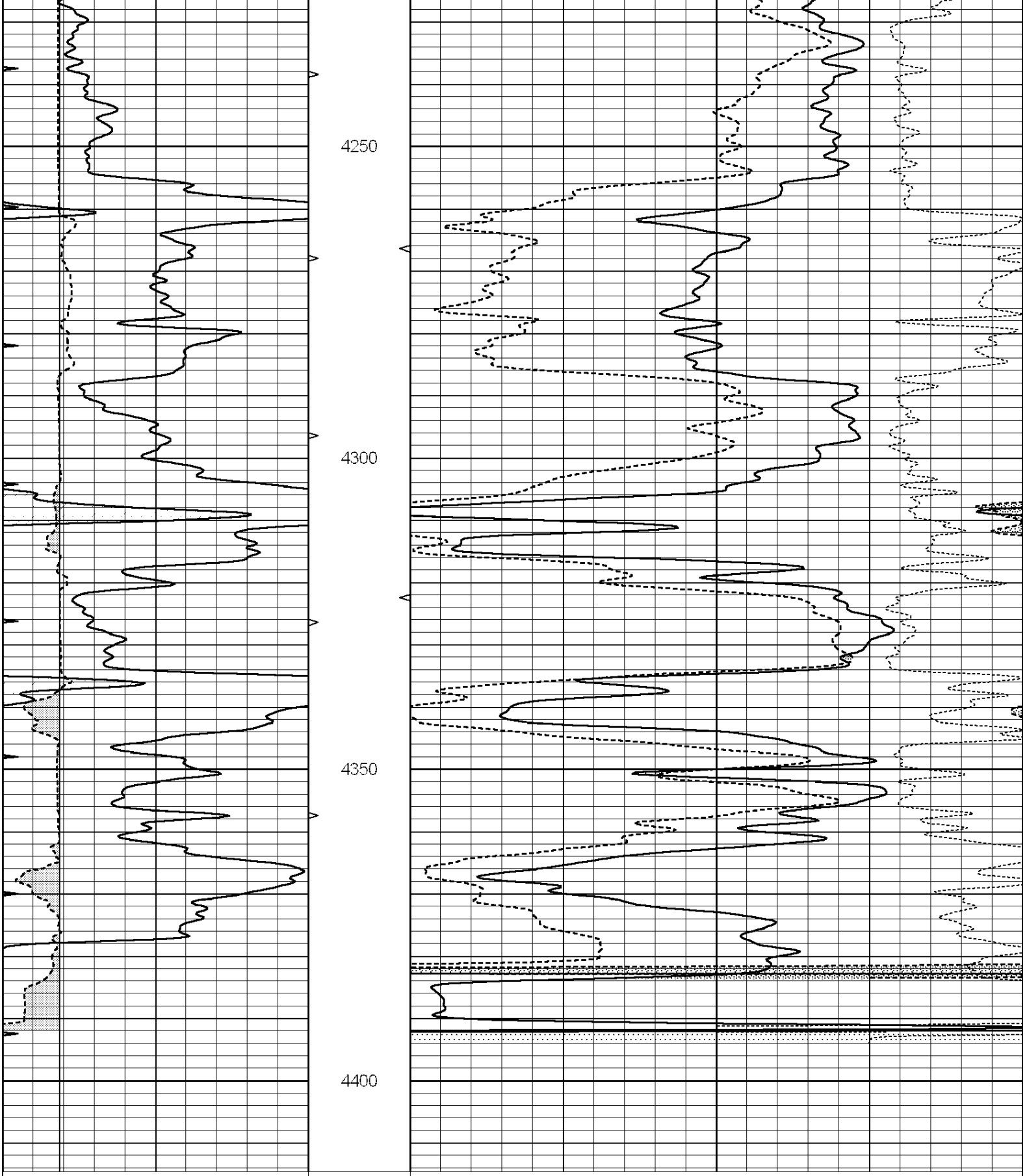
REPEAT SECTION

Database File:	006783ddn.db
Dataset Pathname:	pass2.1
Presentation Format:	_den_neu
Dataset Creation:	Tue Mar 08 15:57:34 2011 by Calc Open-Cased 090629
Charted by:	Depth in Feet scaled 1:240





Calibration Report

Database File: 006783ddn.db
Dataset Pathname: pass2.1
Dataset Creation: Tue Mar 08 15:57:34 2011 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model:	PROBE7-DILG
Surface Cal Performed:	Wed Jul 30 06:14:24 2008
Downhole Cal Performed:	Mon Jul 28 12:02:56 2008
After Survey Verification Performed:	Mon Jul 28 12:02:56 2008

Surface Calibration

	Readings			References			Results	
Loop:	Air	Loop		Air	Loop		m	b
Deep	-0.014	0.629	V	0.000	400.000	mmho/m	621.923	8.759
Medium	0.039	0.728	V	0.000	464.000	mmho/m	673.322	-26.058
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.011	0.610	V	0.000	400.000	mmho/m	667.135	-7.256
Medium	0.005	0.712	V	0.000	464.000	mmho/m	655.677	-3.102

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	14.508	388.384	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	166.367	504.400	mmho/m	1.000	0.000
LL3		7.500	V		1400.000	Ohm-m		
		0.000	V		20.000	Ohm-m		
		-7.200	V		4000.000	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:	Wed Jan 26 17:58:17 2011

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	2.50	V
Large Ring	14.00	in	4.70	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:	Fri Feb 18 03:07:29 2011	
Calibrator Value:	150.0	GAPI
Background Reading:	0.0	cps
Calibrator Reading:	175.0	cps
Sensitivity:	0.8971	GAPI/cps