NABORS
COMPLETION & PRODUCTION SERVICES CO.

RADIATION GUARD LOG

Company BAIRD OIL COMPANY, LLC.
Well ESTHER WORCESTER #4-13
Field WORCESTER EAST
County GRAHAM State KANSAS

Location: API # : 15-065-24037
1610' FNL & 1600' FEL
SEC 13 TWP 7SW RGE 22W

Other Services
MICRO

Elevation
K.B. 2176
D.F.
G.L. 2168

Permanent Datum GROUND LEVEL Elevation 2168
Log Measured From KELLY BUSHING 8' A.G.L.
Drilling Measured From KELLY BUSHING

Company BAIRD OIL COMPANY, LLC.
Well ESTHER WORCESTER #4-13
Field WORCESTER EAST
County GRAHAM
State KANSAS

Date	5-11-14		
Run Number	ONE		
Depth Driller	3800		
Depth Logger	3799		
Bottom Logged Interval	3798		
Top Log Interval	3000		
Casing Driller	219		
Casing Logger	219		
Bit Size	7.875		
Type Fluid in Hole	CHEMICAL MUD		
Density / Viscosity	9.1 / 55		
pH / Fluid Loss	10.0 / 7.2		
Source of Sample	FLOWLINE		
Rm @ Meas. Temp	0.85 @ 88F		
Rmf @ Meas. Temp	0.64 @ 88F		
Rmc @ Meas. Temp	1.02 @ 88F		
Source of Rmf / Rmc	MEASURED		
Rm @ BHT	.660 @ 113F		
Time Circulation Stopped	2 HOURS		
Time Logger on Bottom	9:00 A.M.		
Maximum Recorded Temperature	113F		
Equipment Number	860		
Location	HAYS, KS.		
Recorded By	RUPP		
Witnessed By	RICHARD BELL		

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Comments

NABORS COMPLETION & PRODUCTION SERVICES
785-628-6395
THANK YOU FOR YOUR BUSINESS
DIRECTIONS: BOGUE & #24, 1 1/2W TO 340TH RD., 4N TO W RD., 1/2W, S INTO.

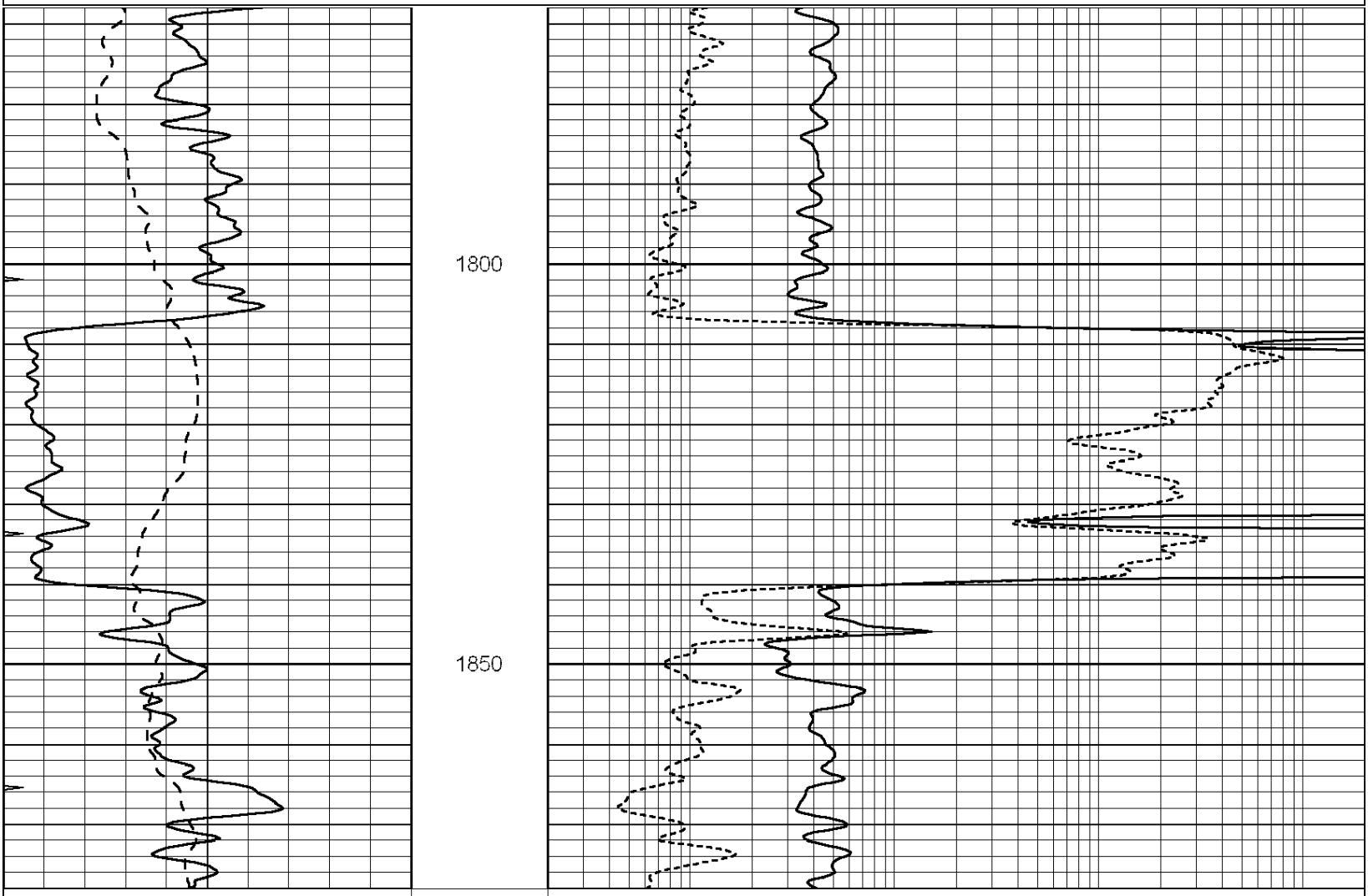
MAIN SECTION

NABORS COMPLETION & PRODUCTION

NABORS
COMPLETION & PRODUCTION SERVICES CO.

Database File: 24430rag.db
Dataset Pathname: pass4.2A
Presentation Format: rag2
Dataset Creation: Sun May 11 10:01:44 2014 by Calc Open-Cased 090629
Charted by: Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 150	ABHV (ft3)	0.2 GUARD (Ohm-m) 2000
-100 SP (mV) 100		0 NEUTRON (NAPI) 1000
	TBHV (ft3)	



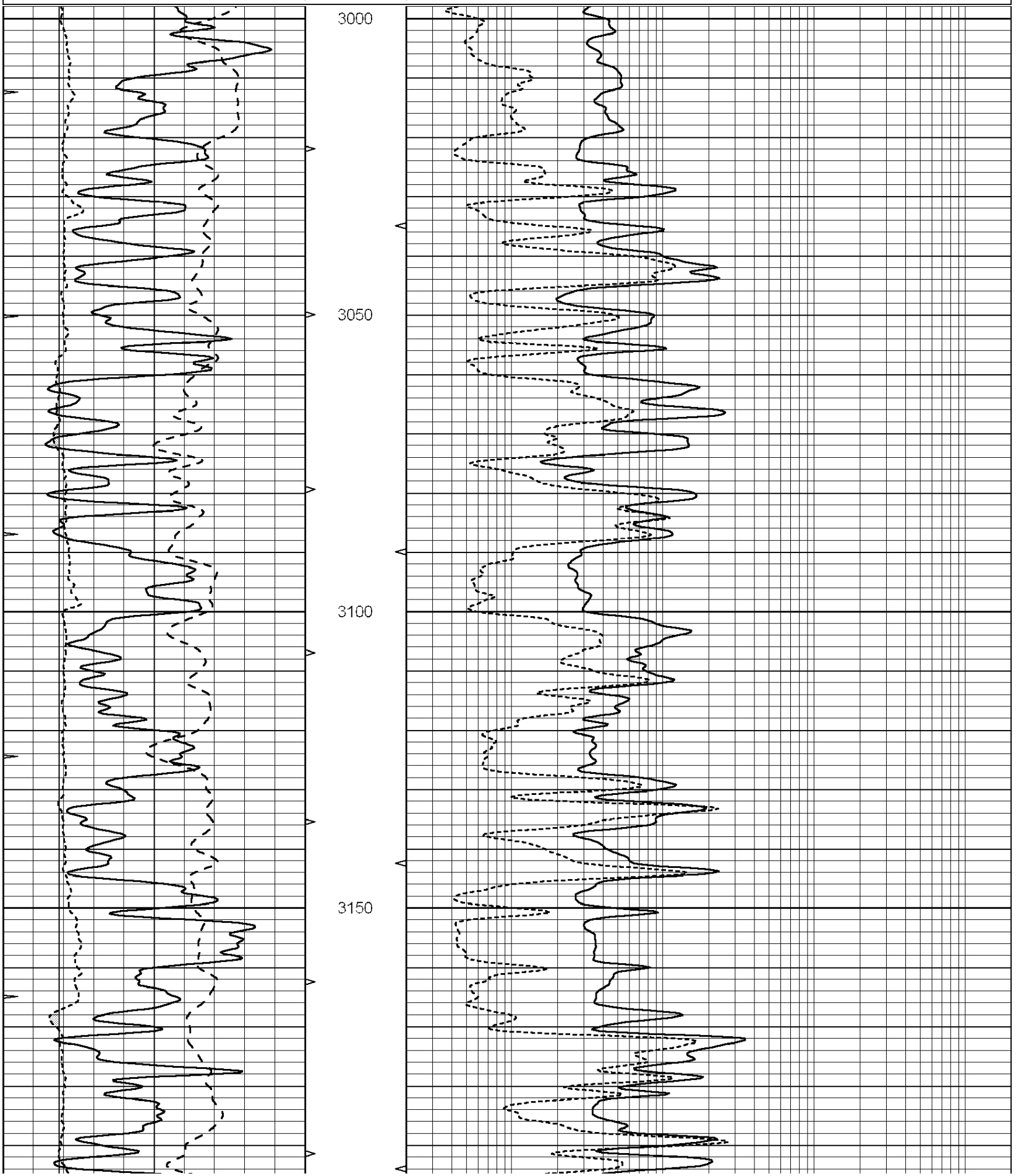
0 GAMMA RAY (GAPI) 150	ABHV (ft3)	0.2 GUARD (Ohm-m) 2000
-100 SP (mV) 100		0 NEUTRON (NAPI) 1000
	TBHV (ft3)	

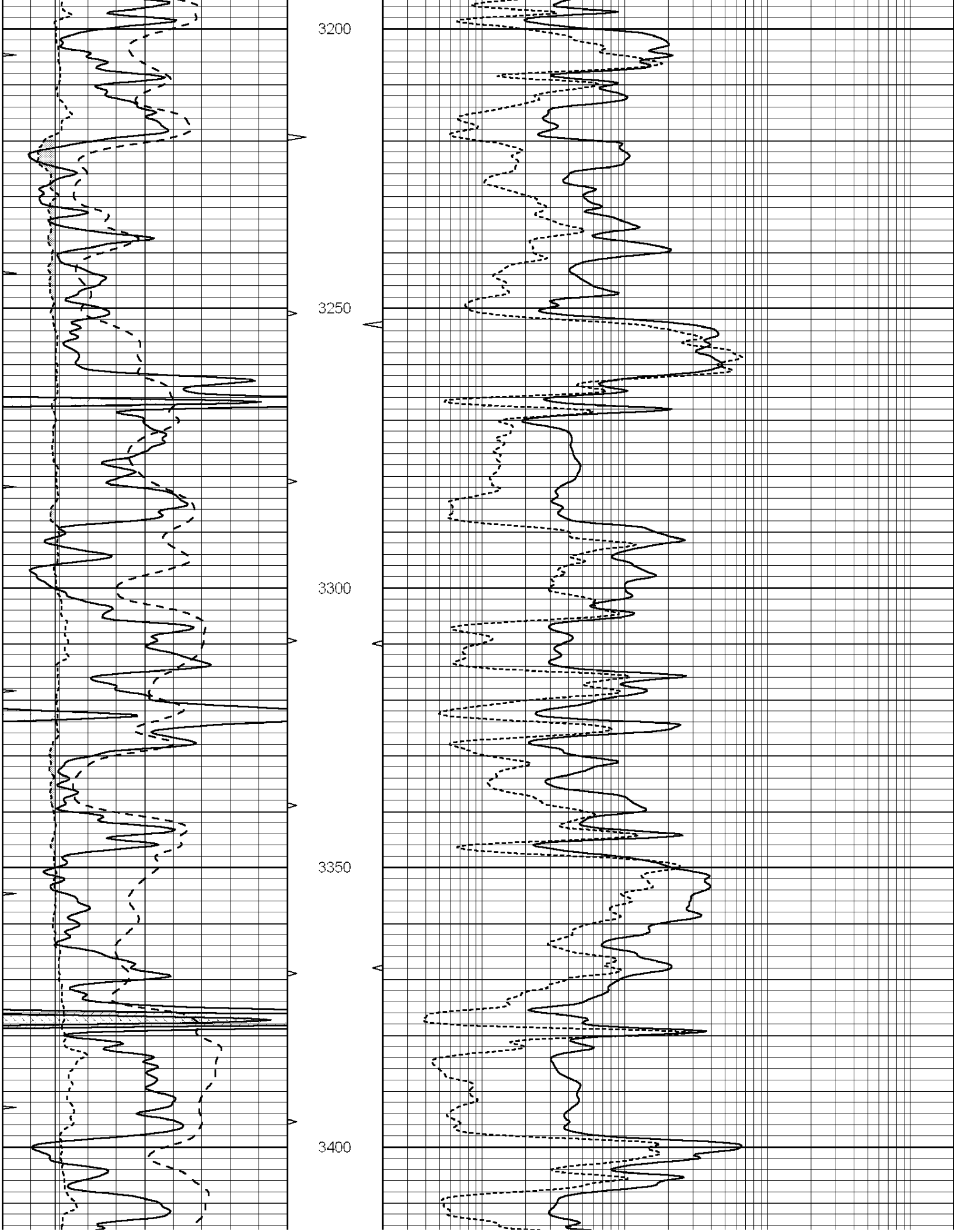
NABORS
COMPLETION & PRODUCTION SERVICES CO.

MAIN SECTION

Database File: 24430rag.db
Dataset Pathname: pass3.2
Presentation Format: _rag
Dataset Creation: Sun May 11 09:53:56 2014
Charted by: Depth in Feet scaled 1:240

0 GAMMA RAY (GAPI) 150	ABHV	0.2 GUARD (Ohm-m) 2000
-100 SP (mV) 100	10 (ft3) 0	0 NEUTRON (NAPI) 1000
6 CALIPER (in) 16	TBHV	
	0 (ft3) 10	

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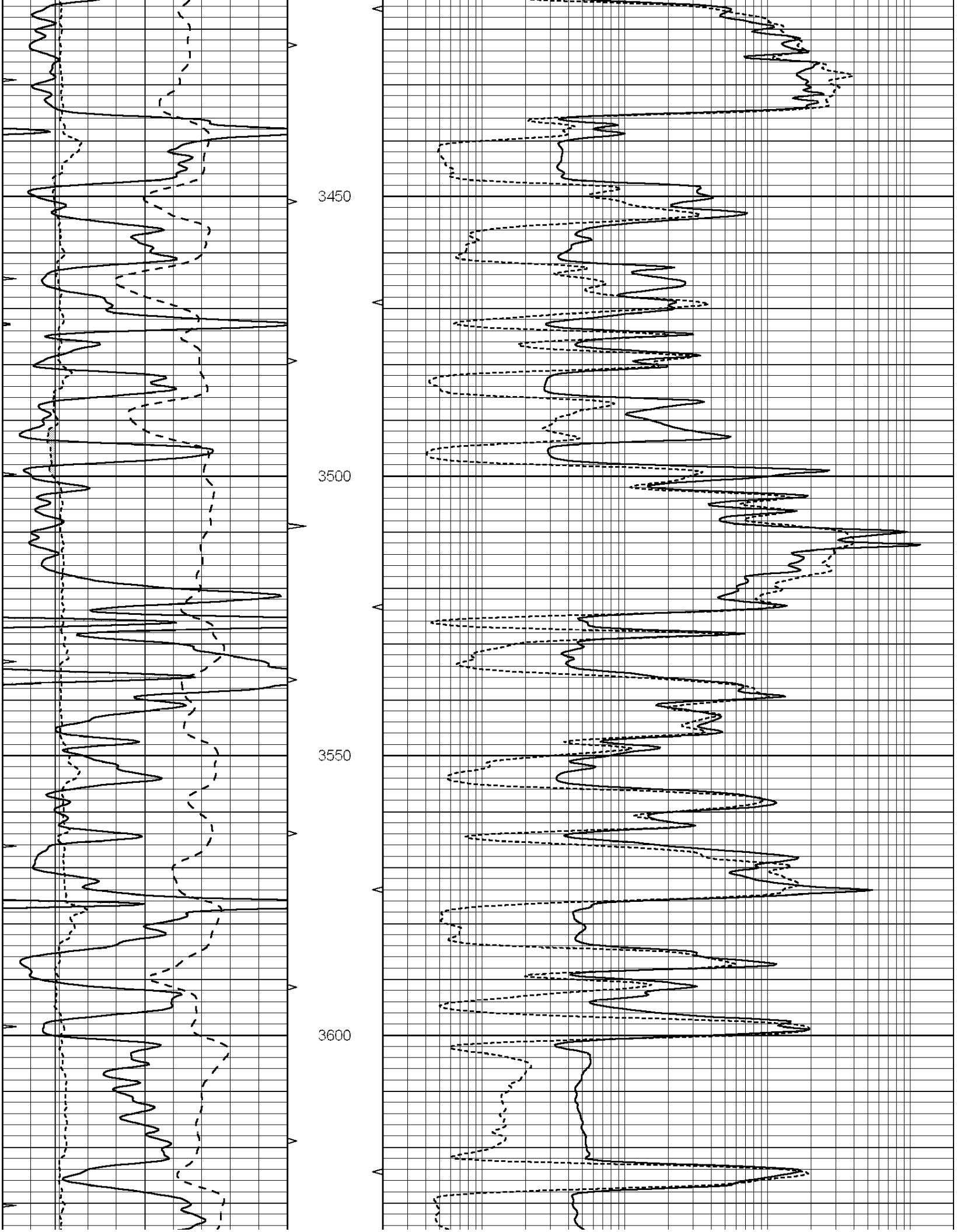
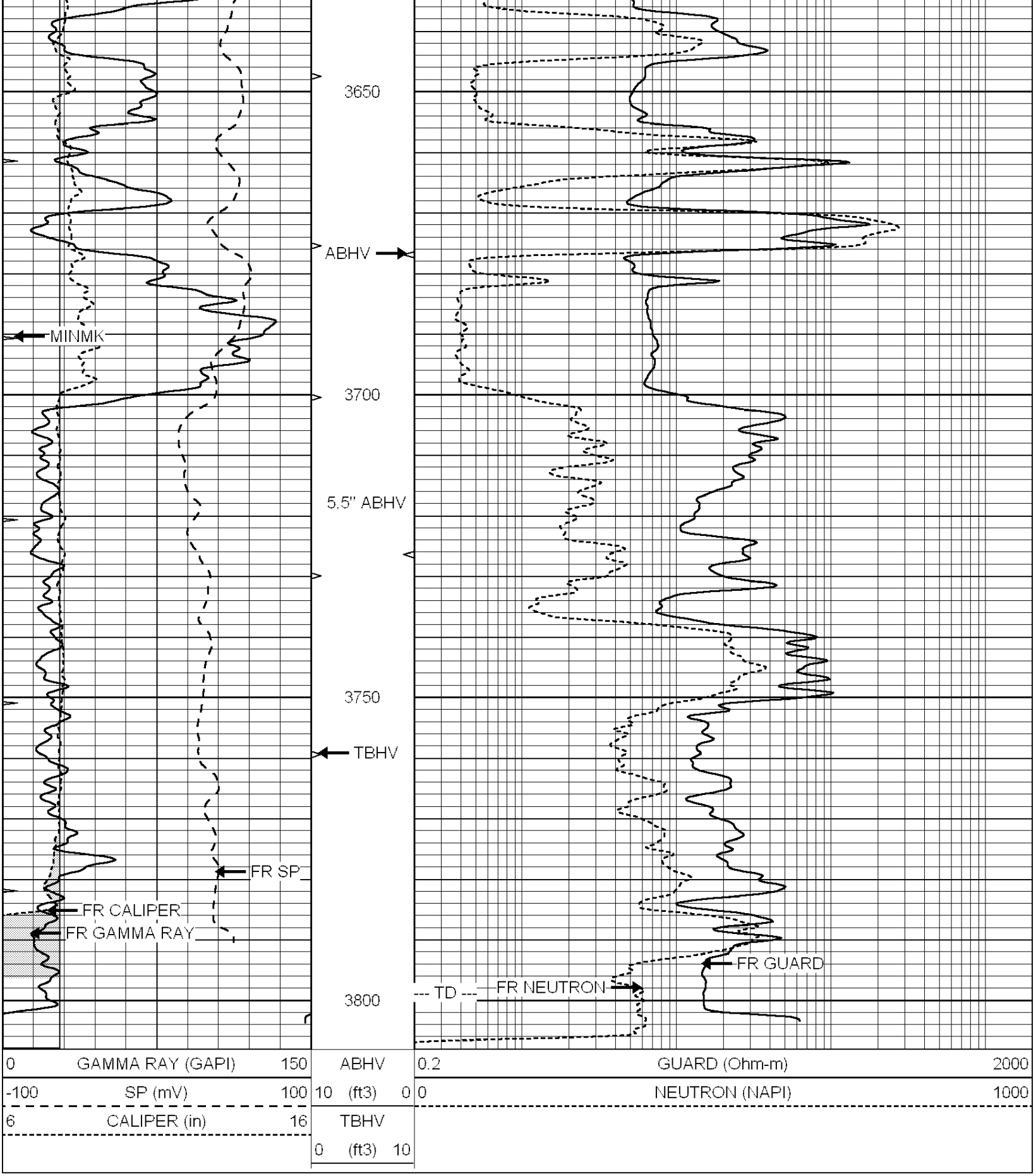
3250
3300
3350
3400


3450
3500
3550
3600



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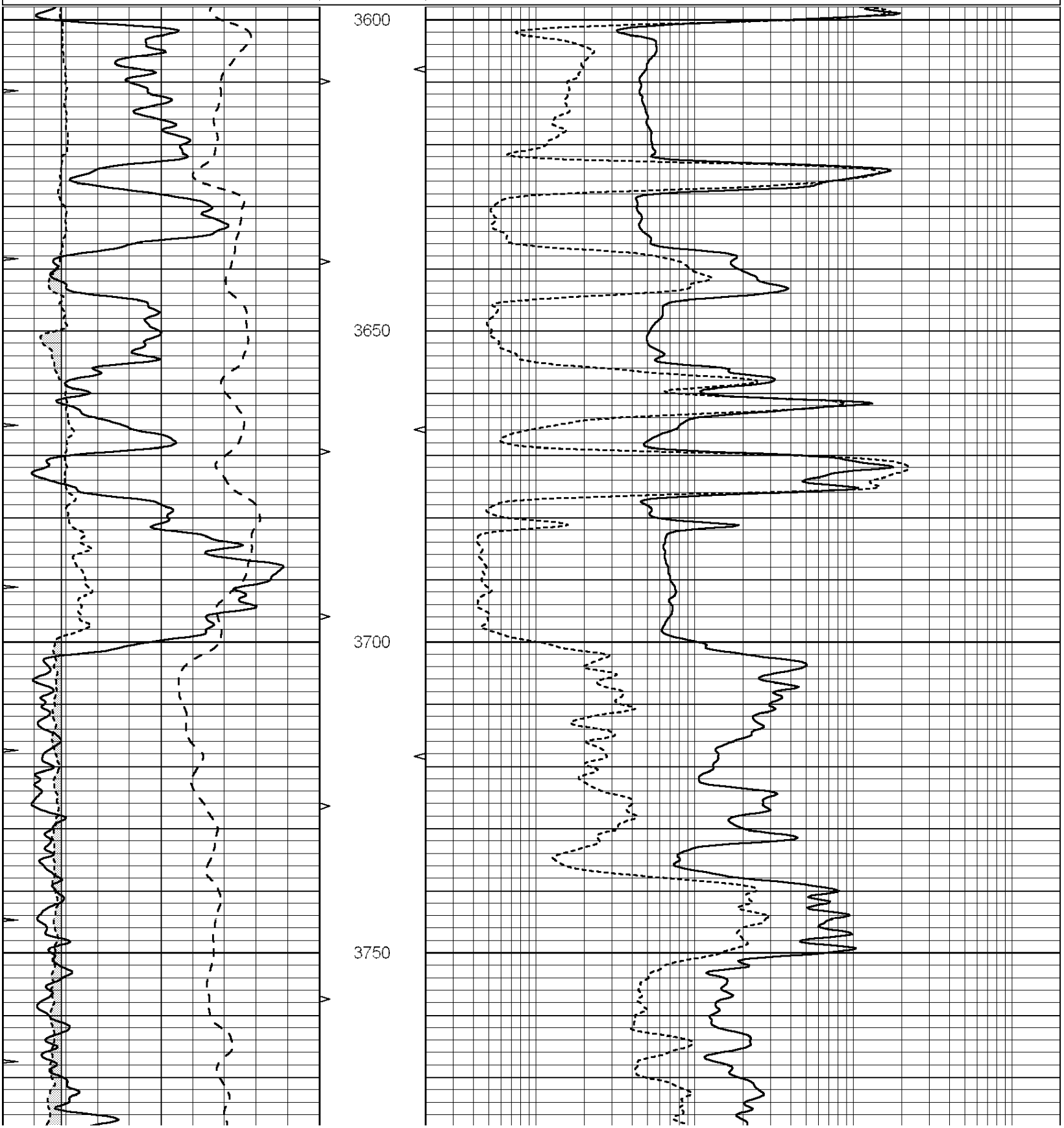
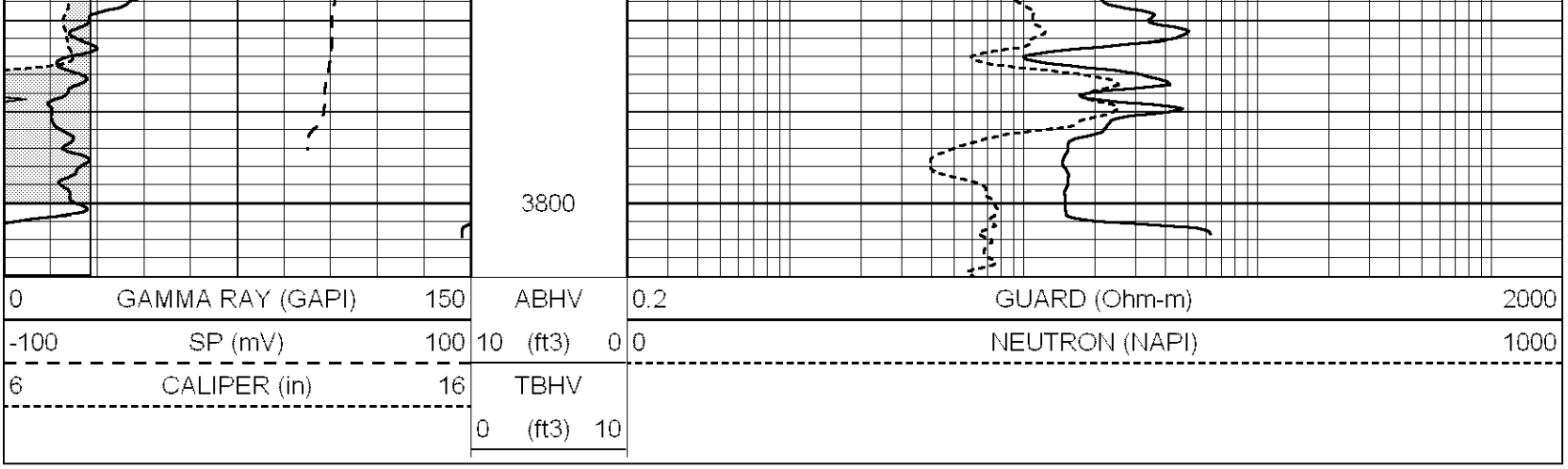
REPEAT SECTION

Database File:	24430rag.db
Dataset Pathname:	pass2.2
Presentation Format:	_rag
Dataset Creation:	Sun May 11 09:51:38 2014
Charted by:	Depth in Feet scaled 1:240

0	GAMMA RAY (GAPI)	150	ABHV	0.2	GUARD (Ohm-m) 2000
-100	SP (mV)	100	10 (ft3) 0	0	NEUTRON (NAPI) 1000
6	CALIPER (in)	16	TBHV		
			0 (ft3) 10		





Calibration Report

Database File: 24430rag.db
Dataset Pathname: pass3.2
Dataset Creation: Sun May 11 09:53:56 2014

Neutron Calibration Report

Serial Number:	RAG1		
Tool Model:	RAG		
Performed:	Sun May 11 09:34:13 2014		
Calibrator Values:	0	1	NAPI
Calibrator Readings:	0	1	cps
Sensitivity:	1.05	NAPI/cps	

Micro Spherically Focused Log Calibration Report

Serial-Model:	RAG1-A	
Performed:	Sun May 11 09:41:30 2014	

	Readings			References			Results	
	Low	High		Low	High		m	b
Conductivity	0.0110	0.9000	V	10.0000	1000.0000	mmho	3000.0000	16.0000
Caliper	0.2723	0.3535	V	7.8000	14.0000	in	76.3942	-12.8000

Gamma Ray Calibration Report

Serial Number:	RAG1	
Tool Model:	RAG	
Performed:	Sun May 11 09:26:27 2014	
Calibrator Value:	1.0	GAPI
Background Reading:	0.9	cps
Calibrator Reading:	1.0	cps
Sensitivity:	1.9000	GAPI/cps