

**COMPLETION  
& PRODUCTION  
SERVICES CO.**

**COMPENSATED  
DENSITY / NEUTRON  
PE/LOG**

Company CITATION OIL & GAS CORPORATION  
Well GICK #9  
Field BARRY  
County ROOKS State KANSAS

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Well GICK #9  
Field BARRY  
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State KANSAS

Location: API #: 15-163-24086-0000  
1650' FSL & 990' FWL  
SEC 1 TWP 9S RGE 19W  
Permanent Datum GROUND LEVEL Elevation 2027  
Log Measured From KELLY BUSHING 11' A.G.L.  
Drilling Measured From KELLY BUSHING  
Other Services  
DILMEL  
Elevation  
K.B. 2038  
D.F. 2036  
G.L. 2027

Date	1/22/13
Run Number	ONE
Depth Driller	3492
Depth Logger	3494
Bottom Logged Interval	3470
Top Log Interval	2500
Casing Driller	1402
Casing Logger	1412
Bit Size	7.875
Type Fluid in Hole	CHEMICAL MUD
Density / Viscosity	8.839
pH / Fluid Loss	9.07/.6
Source of Sample	FLOWLINE
Rim @ Meas. Temp	.90 @ 60F
Rmf @ Meas. Temp	.67 @ 60F
Rmc @ Meas. Temp	1.08 @ 60F
Source of Rmf / Rmc	MEASURED
Rim @ BHT	.48 @ 111F
Time Circulation Stopped	3 HOURS
Time Logger on Bottom	
Maximum Recorded Temperature	111F
Equipment Number	860
Location	HAYS, KS.
Recorded By	JASON CAPPELLUCCI
Witnessed By	ED GLASSMAN

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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

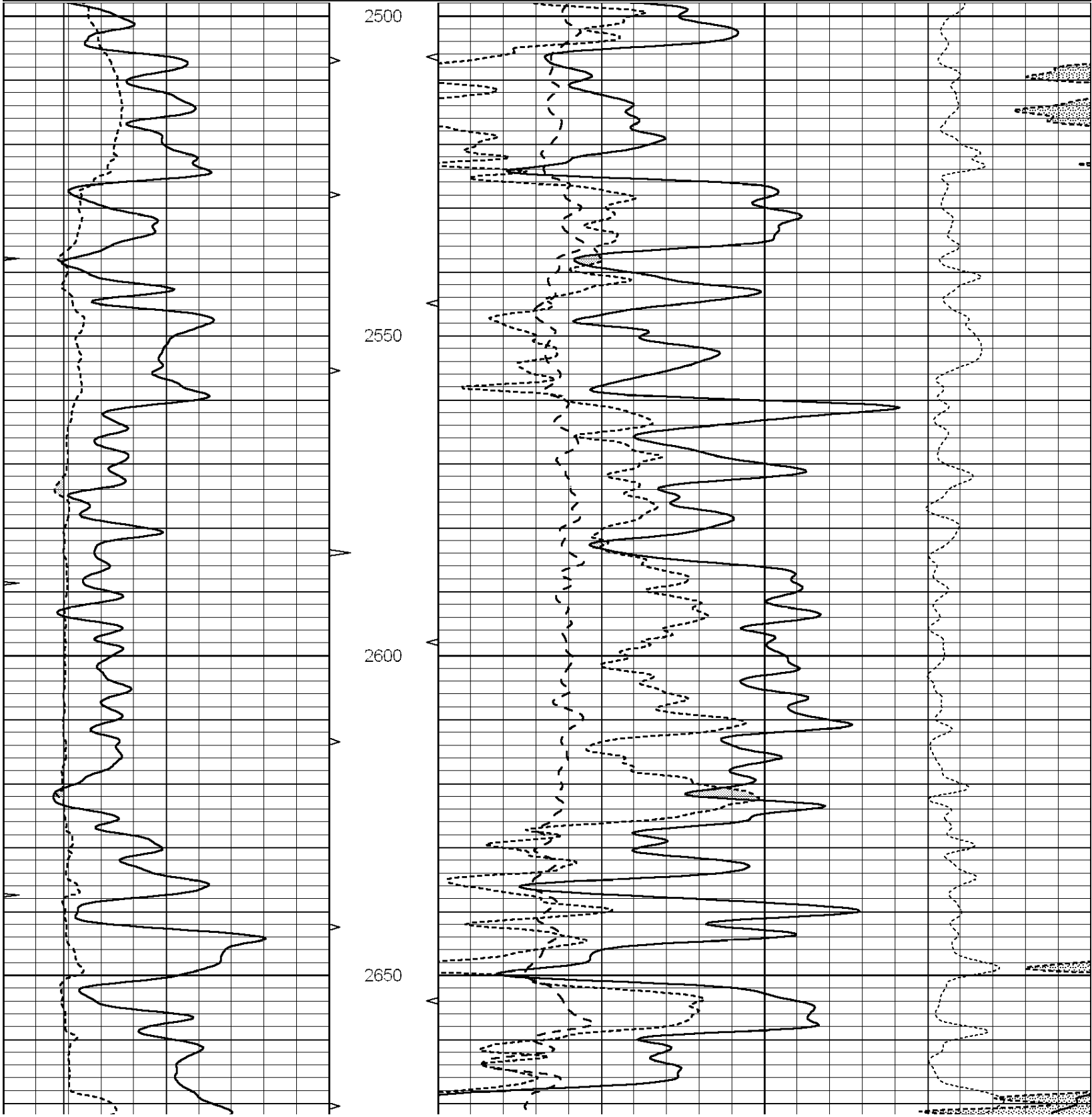
NABORS COMPLETION & PRODUCTION CO.  
785-628-6395  
THANK YOU FOR YOUR BUSINESS  
DIRECTIONS: ZURICH, KS. - 4 N. - 2 E. - 1/4 N. - E. INTO

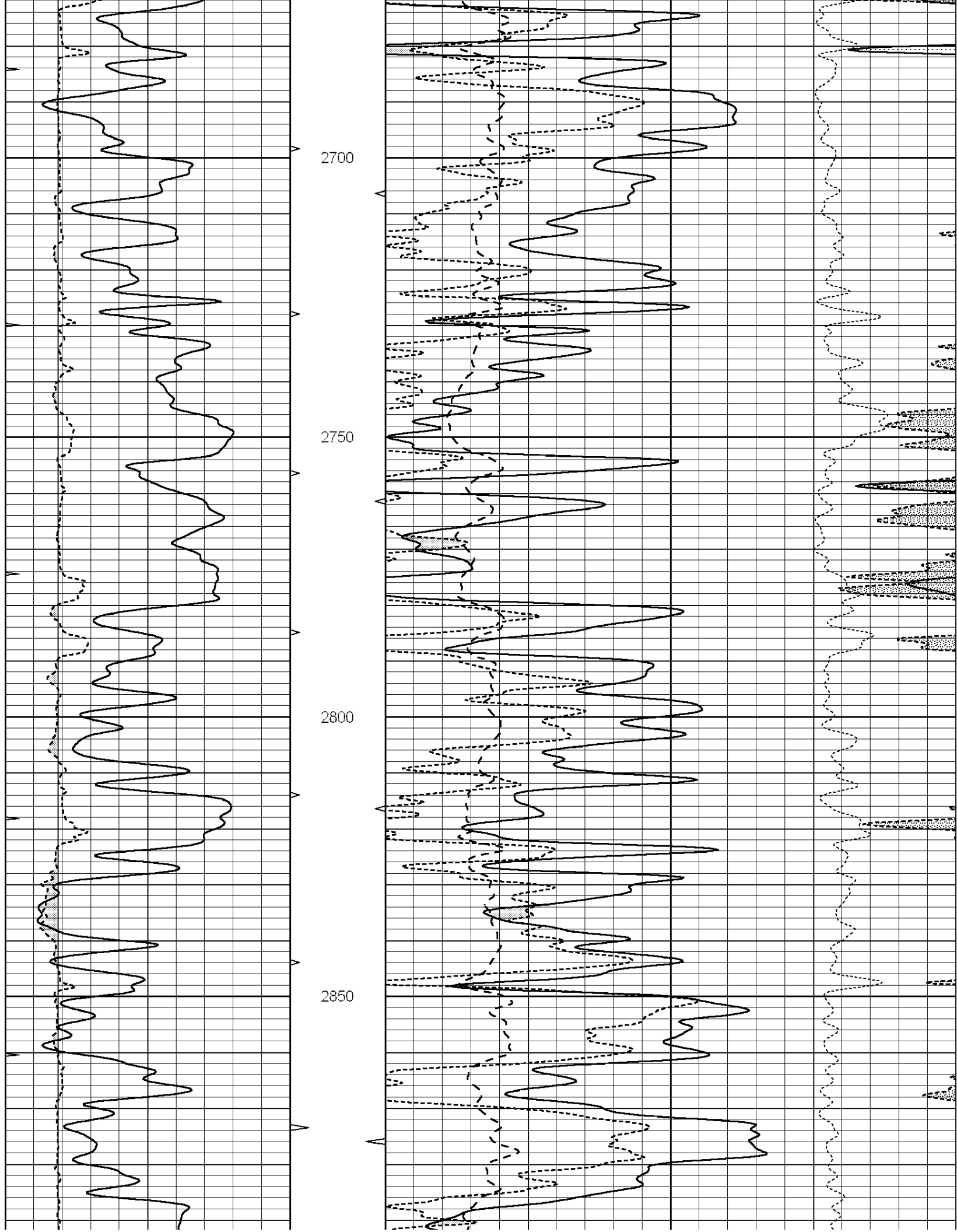


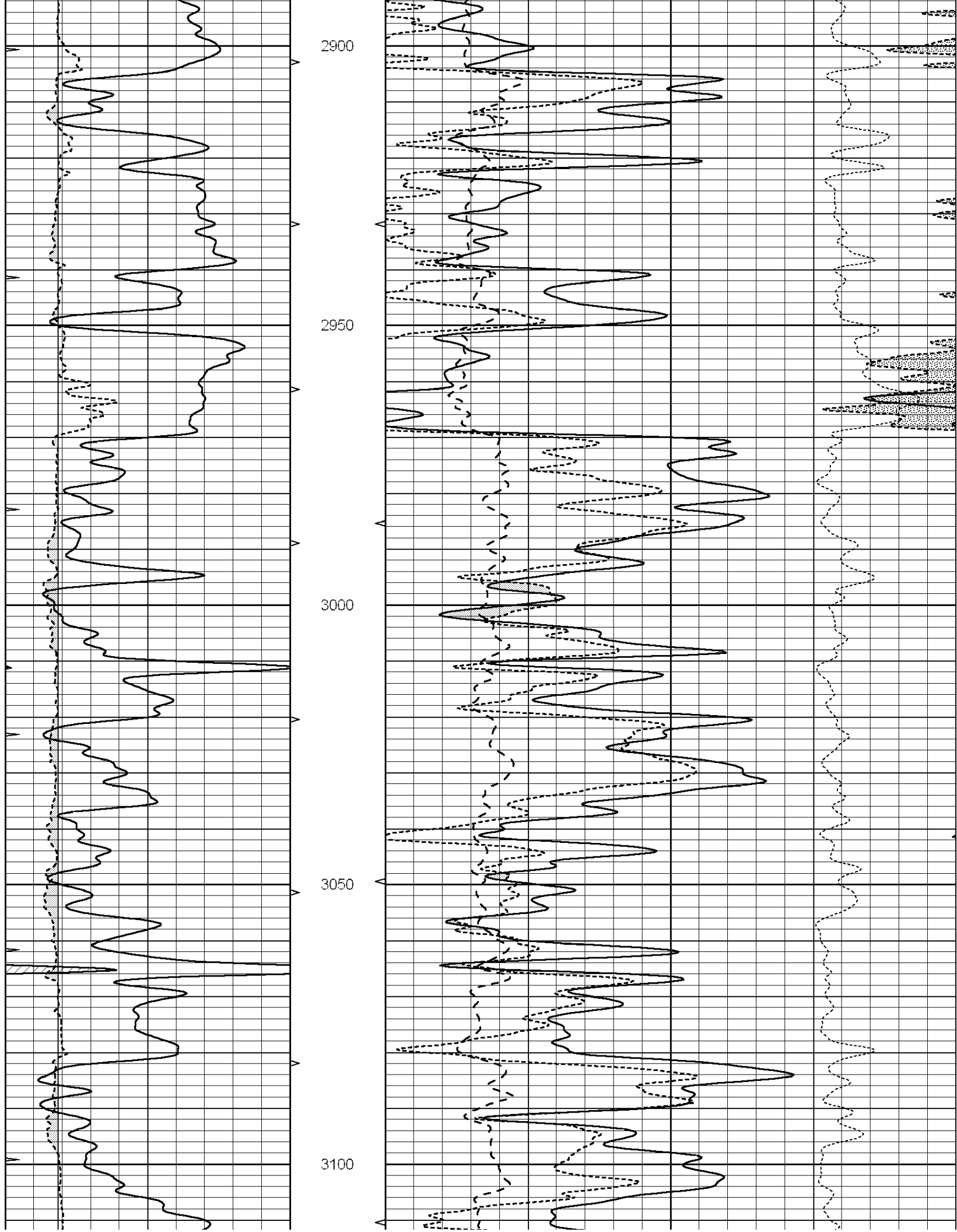
**MAIN SECTION**

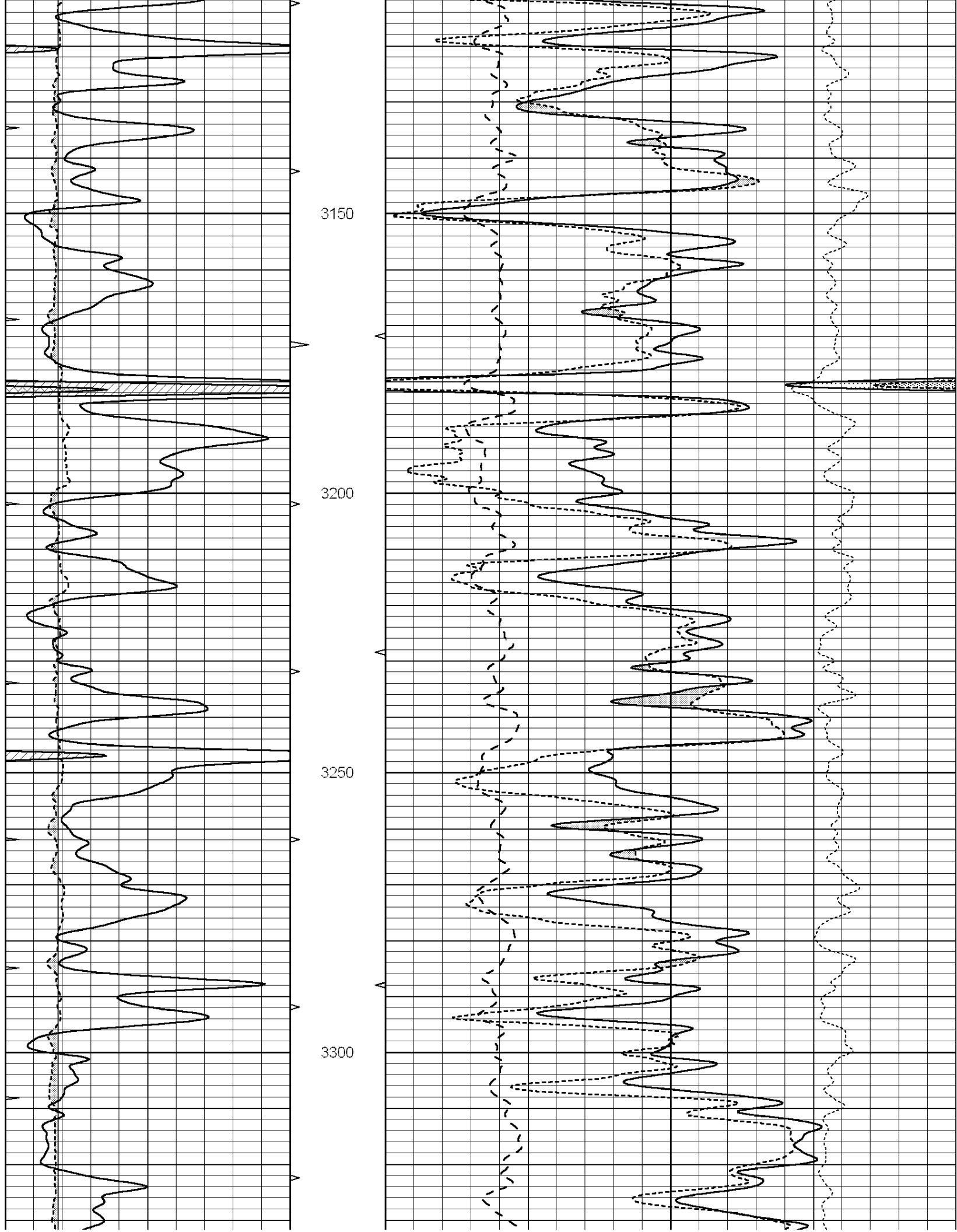
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 Dataset Pathname: pass4.1  
 Presentation Format: ldt\_neu  
 Dataset Creation: Tue Jan 22 07:55:54 2013 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

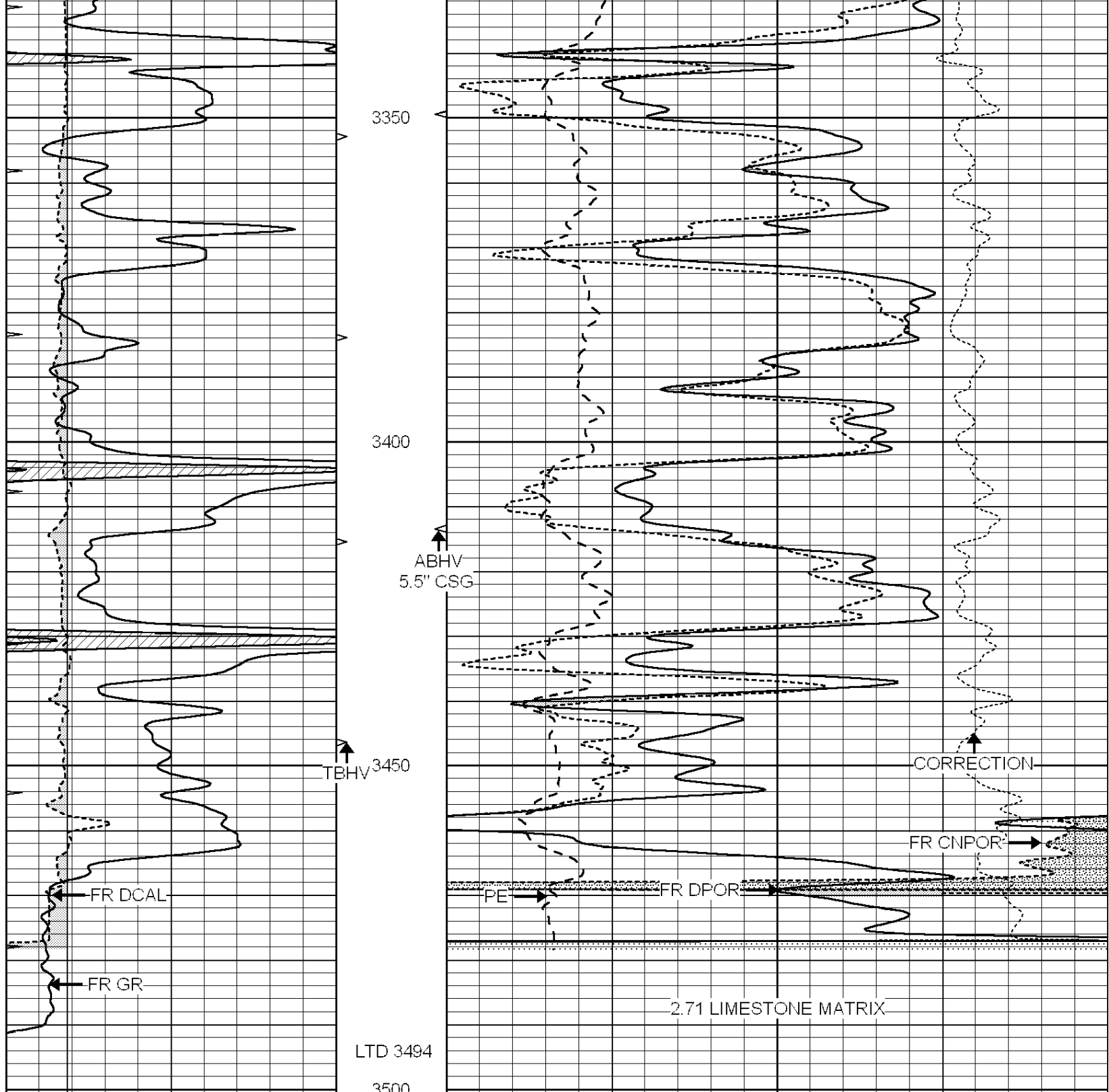
0	GAMMA RAY (GAPI)	150	ABHV	30	COMPENSATED DENSITY (pu)	-10
6	CALIPER (in)	16	10 (ft3)	0 30	COMPENSATED NEUTRON (pu)	-10
0	MINMK	20	TBHV		-0.25 CORRECTION (g/cc)	0.25
			0 (ft3)	10		











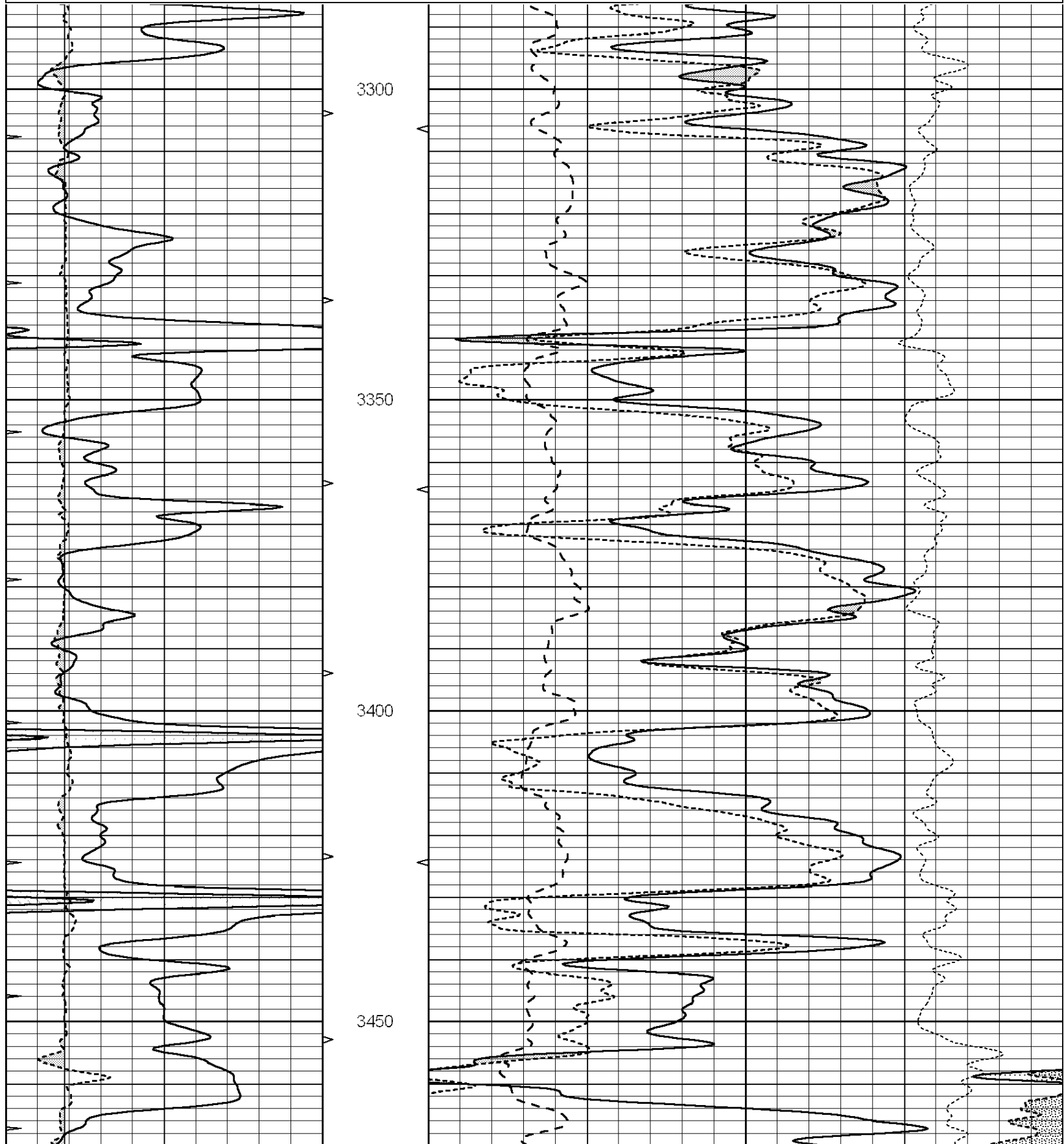
0	GAMMA RAY (GAPI)	150	3500	ABHV	30	COMPENSATED DENSITY (pu)	-10	
6	CALIPER (in)	16	10 (ft3)	0	30	COMPENSATED NEUTRON (pu)	-10	
0	MINMK	20	TBHV			-0.25	CORRECTION (g/cc)	0.25
			0 (ft3)	10				

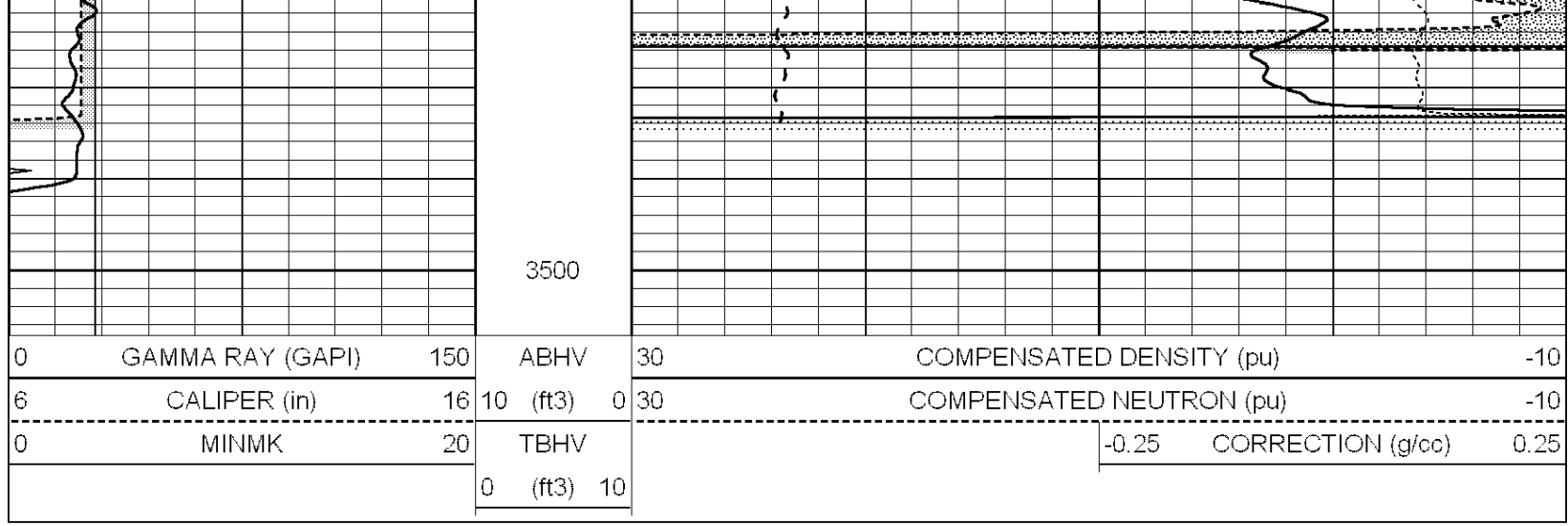


# REPEAT SECTION

Dataset Pathname: pass3.2  
 Presentation Format: ldt\_neu  
 Dataset Creation: Tue Jan 22 06:47:48 2013 by Calc Open-Cased 090629  
 Charted by: Depth in Feet scaled 1:240

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





Calibration Report

Database File: 010656pe.db  
 Dataset Pathname: pass4.1  
 Dataset Creation: Tue Jan 22 07:55:54 2013 by Calc Open-Cased 090629

Dual Induction Calibration Report

Serial-Model: PROBE7-DILG  
 Surface Cal Performed: Sat Jan 19 20:58:30 2013  
 Downhole Cal Performed: Sat Jan 19 19:51:38 2013  
 After Survey Verification Performed: Sat Jan 19 19:51:38 2013

Surface Calibration

Loop:	Readings			References			Results	
	Air	Loop		Air	Loop		m	b
Deep	0.793	0.790	V	0.000	400.000	mmho/m	670.000	-6.000
Medium	0.992	1.002	V	0.000	464.000	mmho/m	700.000	-55.000
Internal:	Zero	Cal		Zero	Cal		m	b
Deep	0.041	0.642	V	0.000	400.000	mmho/m	664.874	-27.011
Medium	0.035	0.802	V	0.000	464.000	mmho/m	604.936	-21.367

Downhole Calibration

	Readings			References			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	135384.000	27094.500	mmho/m	135400.000	27082.400	mmho/m	1.000	-19.259
Medium	-47330.100	-9381.740	mmho/m	-47327.100	-9389.280	mmho/m	1.000	-10.154
LL3		7.322	V		1400.000	Ohm-m		
		0.038	V		20.000	Ohm-m		
		-7.273	V		4000.000	mmho-m		

After Survey Verification

	Readings			Targets			Results	
	Zero	Cal		Zero	Cal		m'	b'
Deep	0.000	0.000	mmho/m	135384.000	27094.500	mmho/m	1.000	0.000
Medium	0.000	0.000	mmho/m	-47330.100	-9381.740	mmho/m	1.000	0.000
LL3		0.000	Ohm-m		1400.000	Ohm-m		
		0.000	Ohm-m		20.000	Ohm-m		
		0.000	mmho-m		4000.000	mmho-m		

Litho Density Calibration Report

Serial: 001 Model: PRB

5 1 2013 11:00:11 07 02 2007

Litho Density Calibration

	Background	Magnesium	Aluminum	Sandstone	
Window 1	2170.6	9915.1	3855.3	11241.6	cps
Window 2	2029.2	8716.5	3483.5	9750.8	cps
Window 3	1665.0	4929.7	2356.8	5332.0	cps
Window 4	493.3	492.1	490.0	486.8	cps
Long Space	0.0	6687.3	1454.3	7721.6	cps
Short Space	1.9	2149.3	1403.9	2354.5	cps
Rho		1.7100	2.5900	1.3800	g/cc
Pe			2.5700	1.5500	
Rib Angle	: 44.4	Rib Slope	: 0.979	Density/Spine Ratio	: 0.556
Spine Angle	: 74.4	Spine Slope	: 3.583	Spine Intercept	: -18.7

Caliper	Readings	Reference	
Low Ref	3.5	8.1	
High Ref	5.4	14.0	
	Gain: 3.1		Offset: -2.6

Compensated Neutron Calibration Report

Serial Number: NUE\_2I  
 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: GR2  
 Tool Model: OPEN  
 Performed: Sat Jan 19 22:43:37 2013

Calibrator Value: 200.0 GAPI

Background Reading: 0.0 cps  
 Calibrator Reading: 740.0 cps

Sensitivity: 1.8000 GAPI/cps