

# North American Natural Gas: After the Revolution

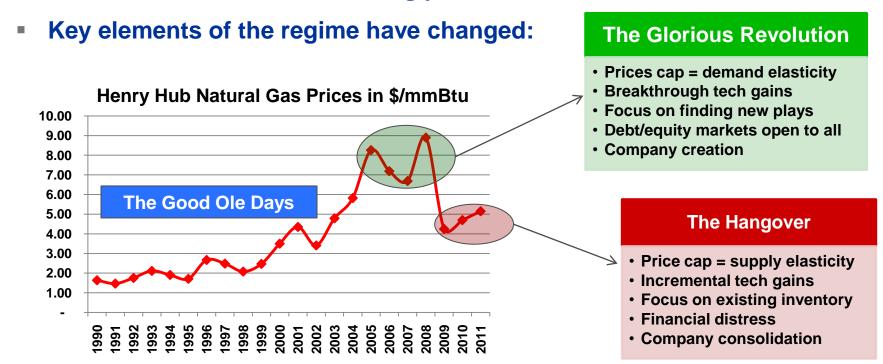
Prepared by PFC Energy Raoul LeBlanc Spring 2010



## **Natural Gas: Key Takeaways**



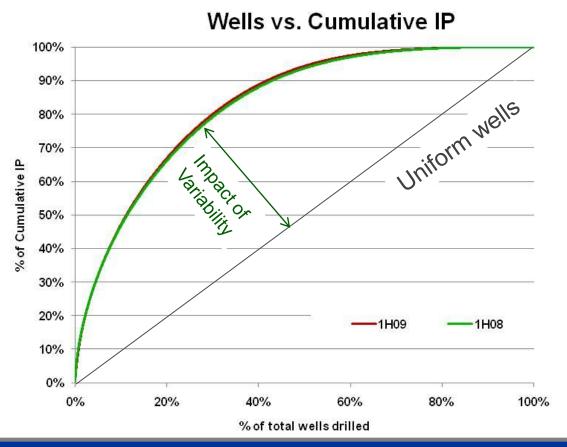
- Well variability is a key driver of production resiliency
- North America does not need LNG, but will get plenty anyway
- Market cannot sustain prices above \$6.50; and \$5 gas probably necessary to crush producers' dreams
- Medium-term outlook increasingly bullish



# **Getting There Fast: Variability Matters**



- Distribution of well performance remains important
- Effect in 2009 almost identical to 2008.

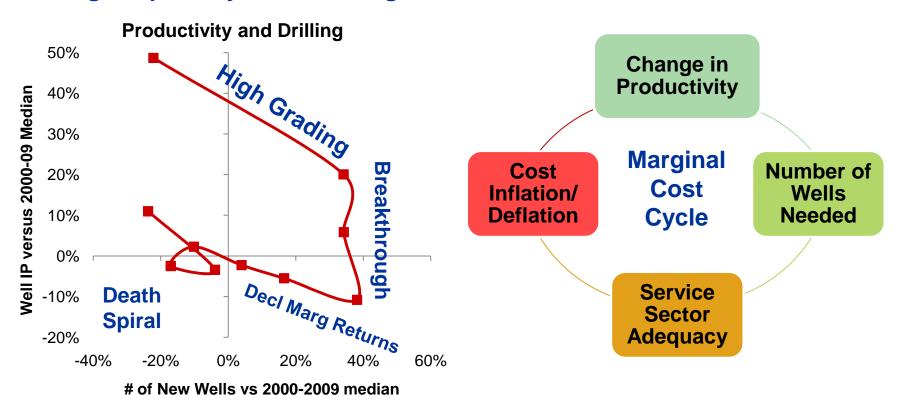


20% of wells drilled provide 70% of IP output.

## Twin Forces Fueled 2009 Production Resilience



- Data bear out positive impact of high-grading as companies have cut back
  - Average IP is increasing in most states
  - Overall IP up by 24%
- Marginal price cycle has changed from vicious to virtuous



## **Medium-Term More Bullish for Prices**



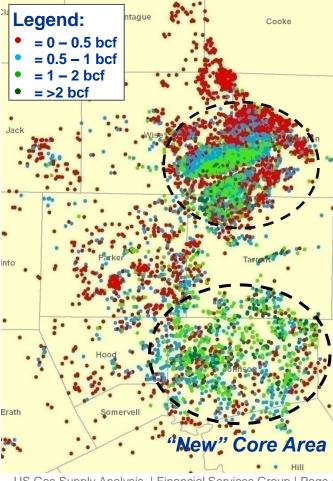
- Lack of policy likely to favor gas demand
- Policy likely to favor gas since only gas meets all four critical criteria

Clean Affordable

Legend: = 2003 Wells = 2005 Wells = 2007 Wells Domestic

As search for new plays tapers and pace of technology gain slows, expect basin exhaustion to gain the upper hand

Impactful



US Gas Supply Analysis | Financial Services Group | Page 5



### **Strategic Advisors in Global Energy**

# PFC Energy consultants are present in the following locations:

- **▶** Bahrain
- Beijing
- Buenos Aires
- ▶ Calgary
- **▶** Houston
- **▶ Kuala Lumpur**
- **Lausanne**
- **▶** London
- ▶ Mumbai
- ▶ New York
- **▶** Paris
- ▶ San Francisco
- ▶ Washington, D.C.

#### Main regional offices:

#### **Asia**

PFC Energy, Kuala Lumpur Level 27, UBN Tower #21 10 Jalan P. Ramlee 50250 Kuala Lumpur, Malaysia Tel (60 3) 2172-3400 Fax (60 3) 2072-3599

#### **Europe**

**PFC Energy, France** 19 rue du Général Foy 75008 Paris, France Tel (33 1) 4770-2900 Fax (33 1) 4770-5905

## PFC Energy International, Lausanne

19, Boulevard de la Forêt 1009 Pully, Switzerland Tel (41 21) 721-1440 Fax: (41 21) 721-1444

#### Middle East

PFC Energy, Bahrain Manama Center Entrance 4 - Office 705 Kingdom of Bahrain Tel (973) 1721-5106 Fax (973) 1721-5108

#### **North America**

PFC Energy, Washington D.C. 1300 Connecticut Avenue, N.W. Suite 800 Washington, D.C. 20036, USA Tel (1 202) 872-1199 Fax (1 202) 872-1219

**PFC Energy, Houston**4545 Post Oak Place, Suite 312
Houston, Texas 77027-3110, USA
Tel (1 713) 622-4447
Fax (1 713) 622-4448

Main regional offices are shown in blue.

www.pfcenergy.com | info@pfcenergy.com