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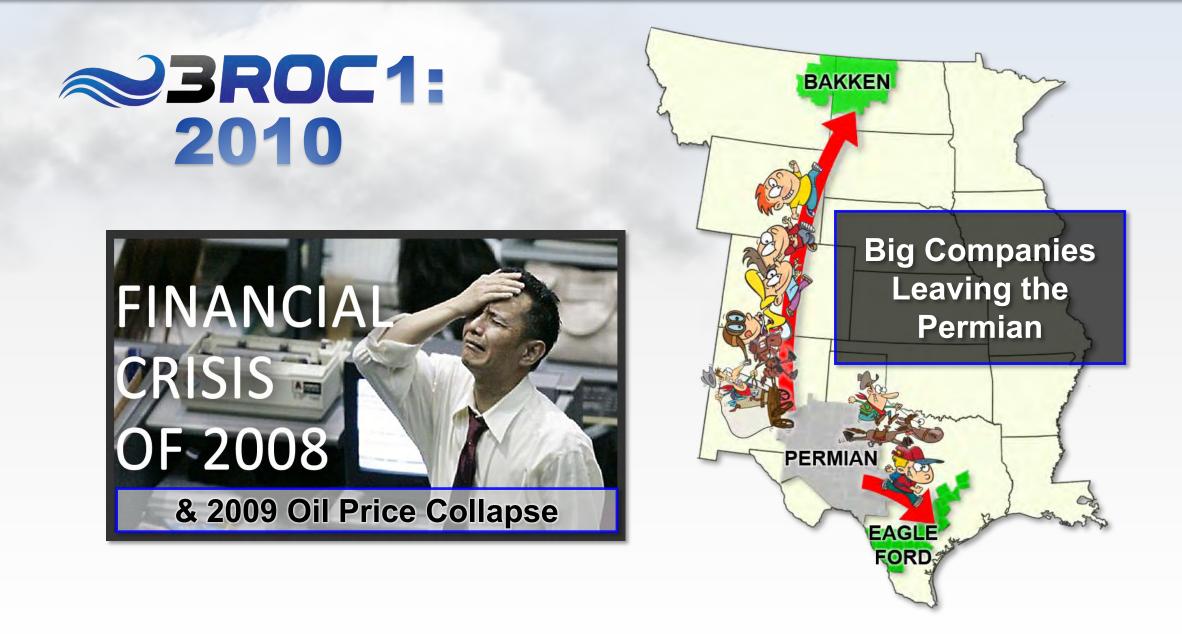
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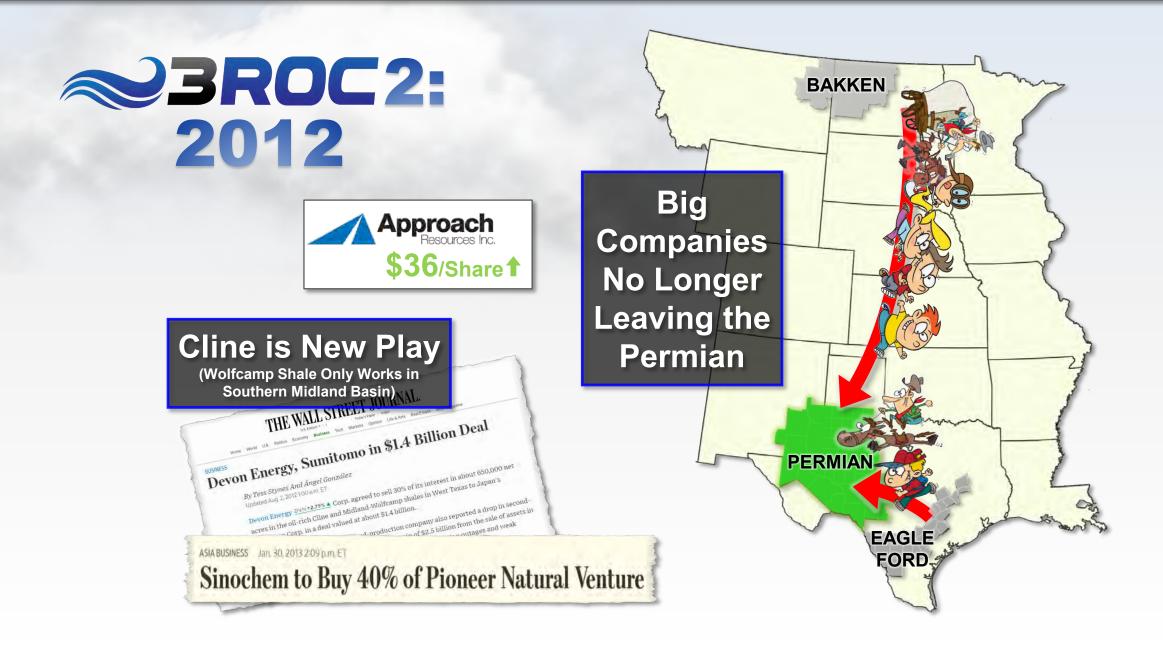
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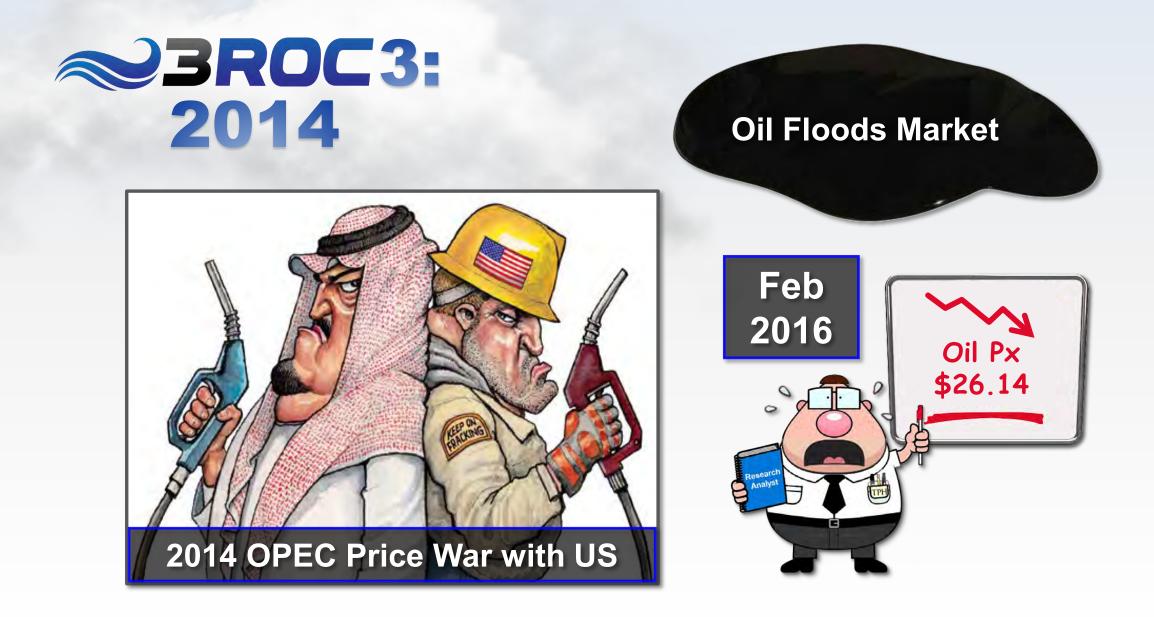
#### **Three Rivers Through the Fog**



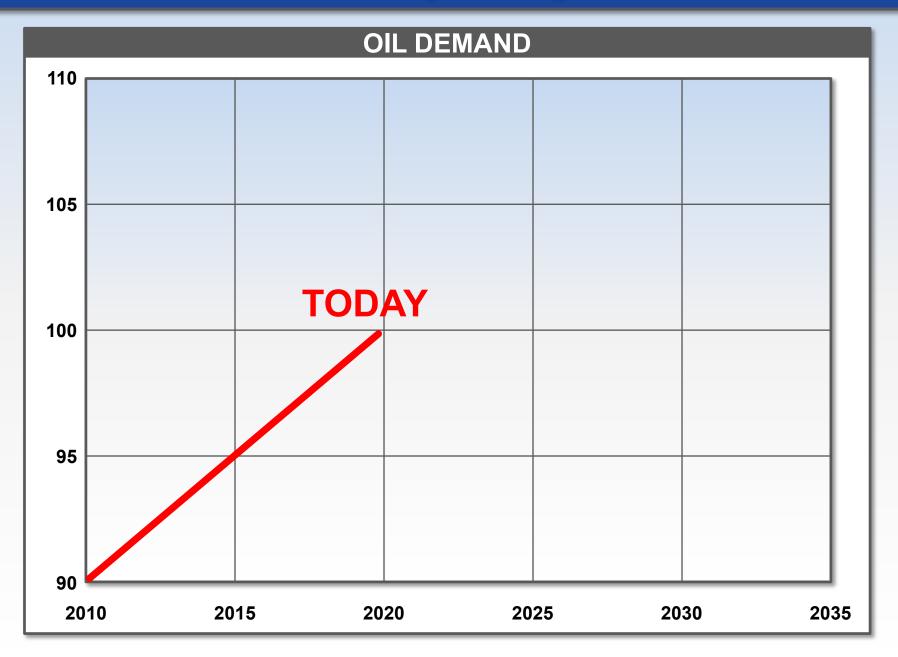
#### **Three Rivers Through the Fog**

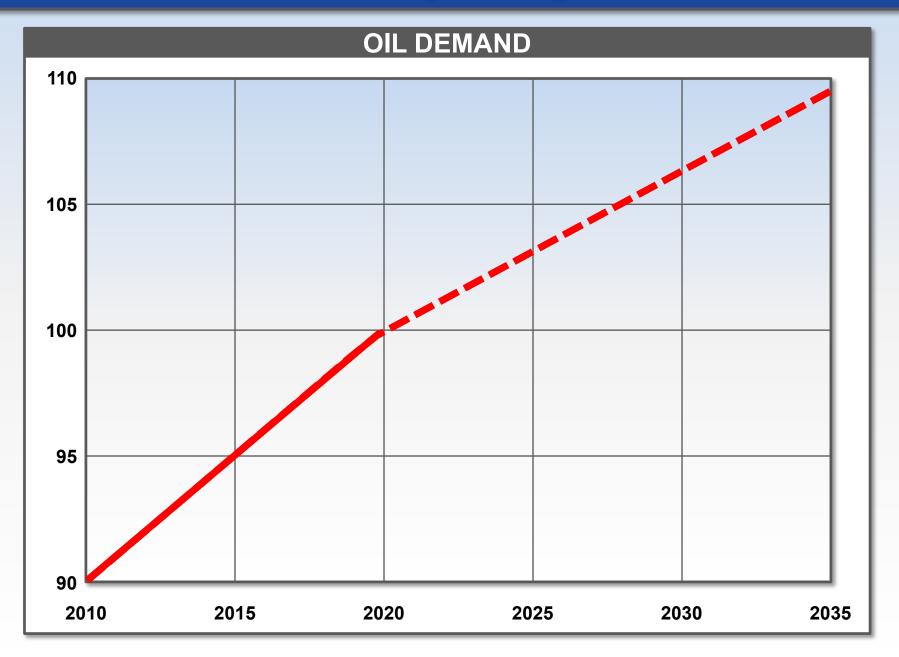


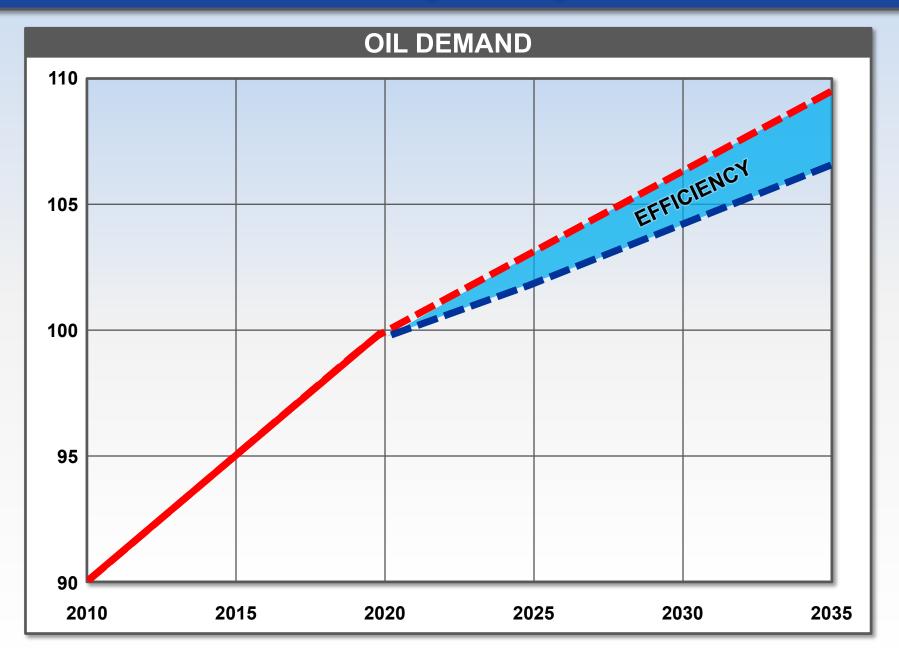
**Three Rivers Through the Fog** 

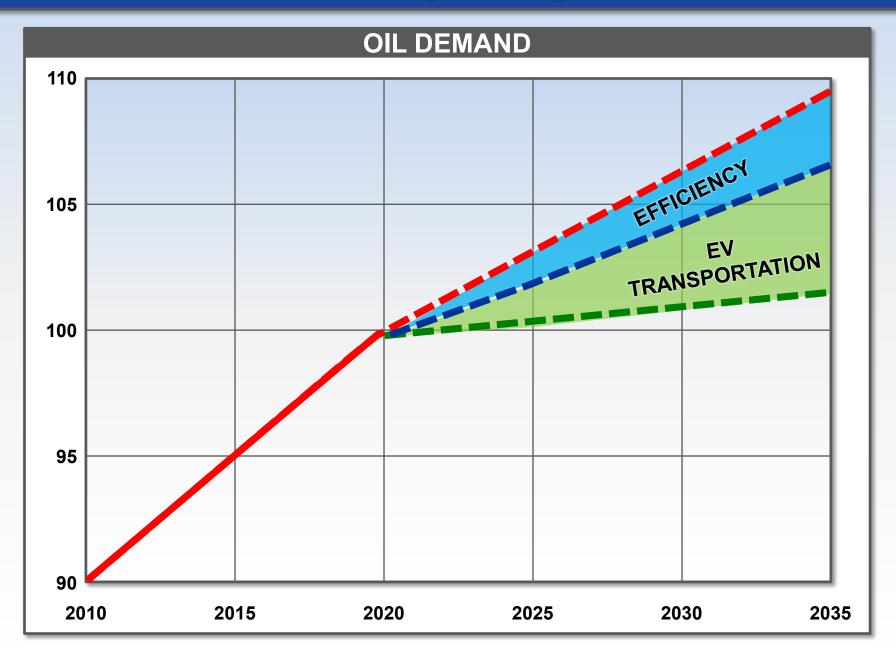


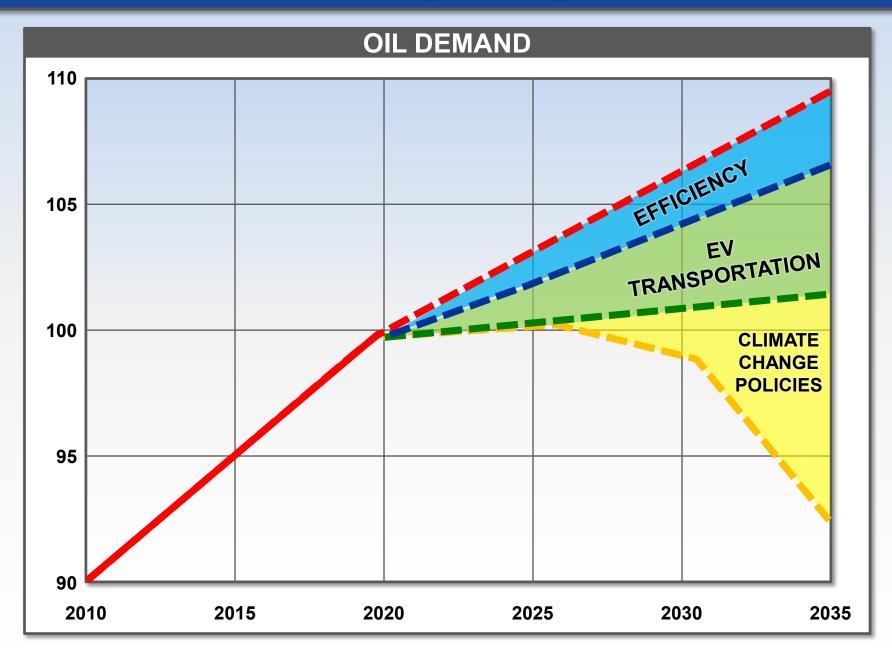
# "Peak Oil Demand"











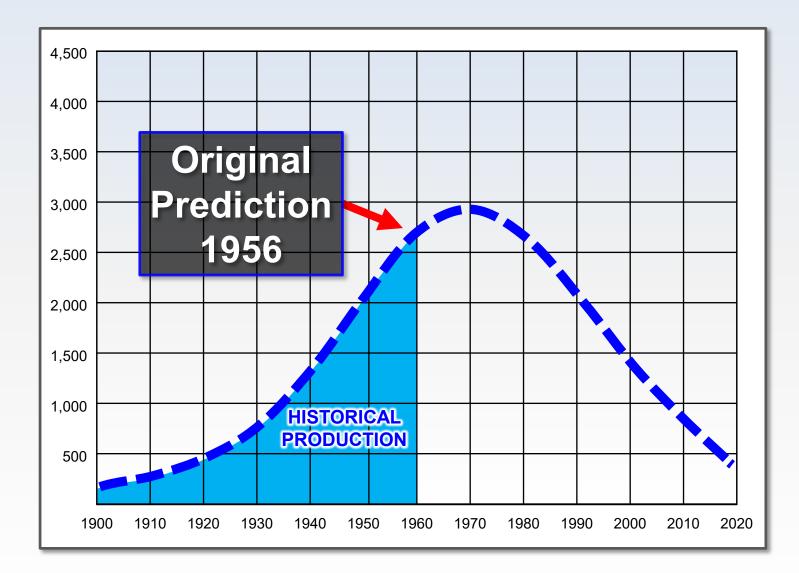
#### History Lesson: "Peak Oil"

1956 M. King Hubbert, a geologist for Shell Oil, says that U.S. oil production will likely peak between 1965 and 1970 and decline steadily thereafter.

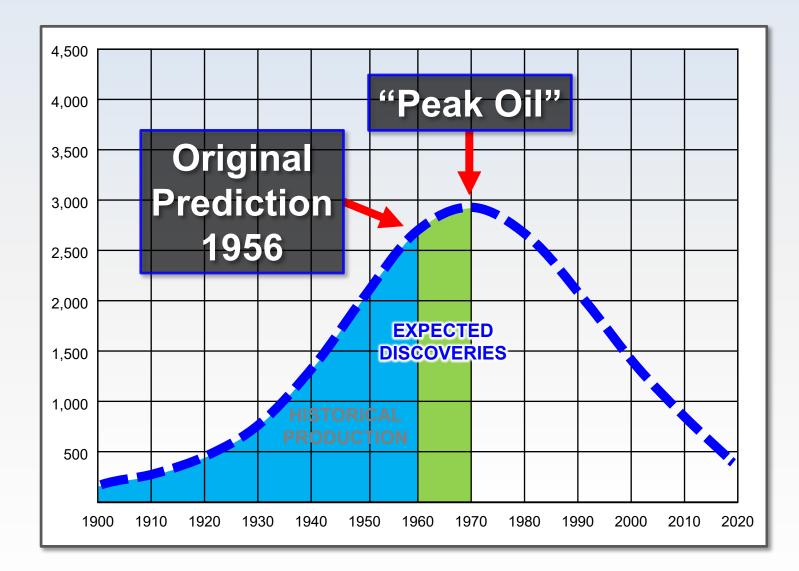
**Others Have Made the Same Prediction Since.** 

- **1972** · Esso
- **1976** · UK Dept. of Energy
- 1979 · Shell
- 1981 · World Bank
- **1997** · JD Edwards
- **2000** · EIA
- 2003 · Shell

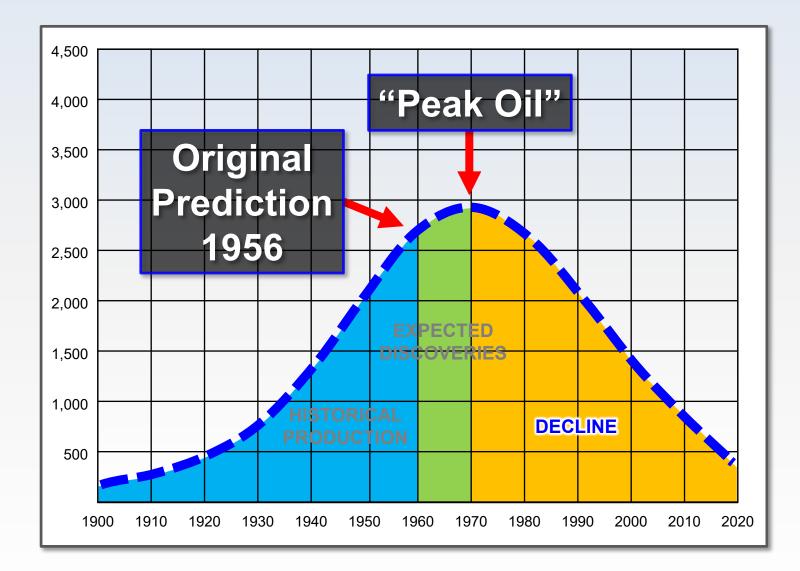
#### **Hubbert's Original Curve**



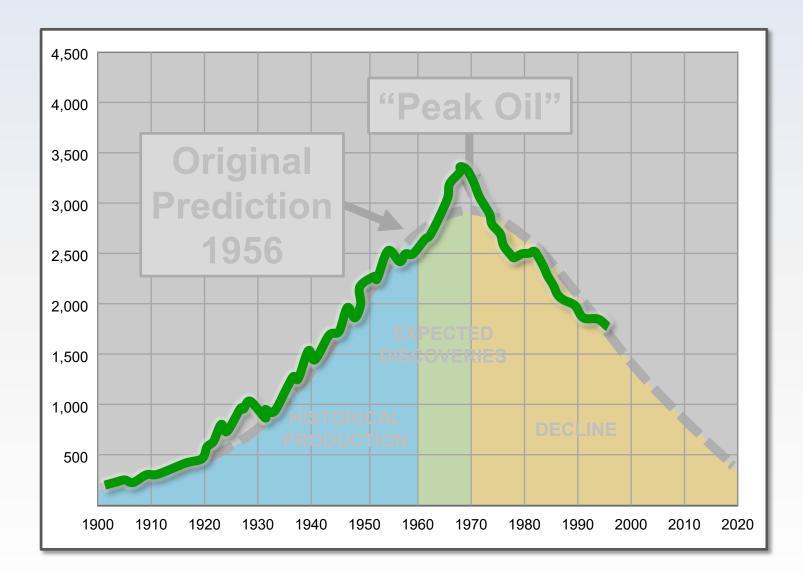
#### **Hubbert's Original Curve**



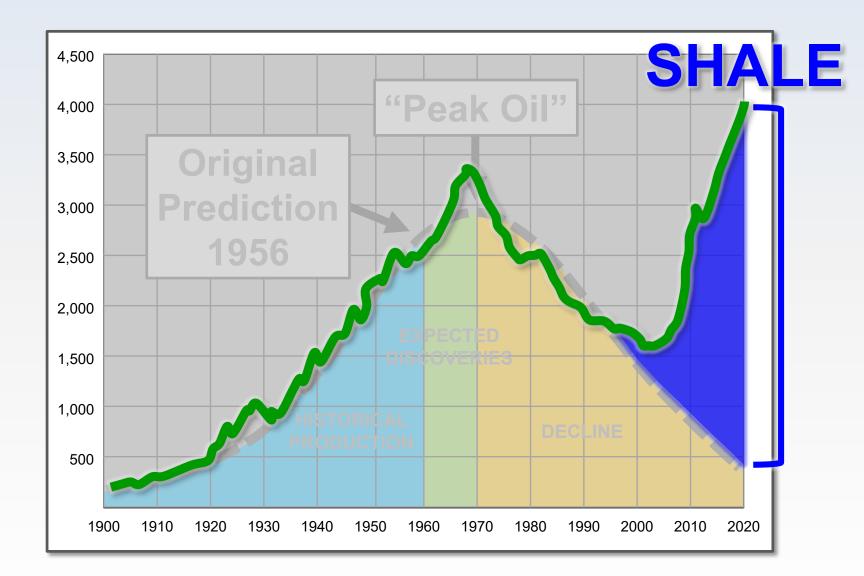
#### **Hubbert's Original Curve**



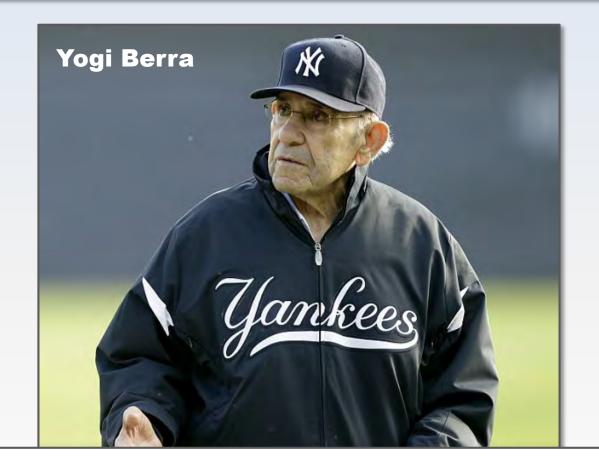
#### What Really Happened



#### What Really Happened



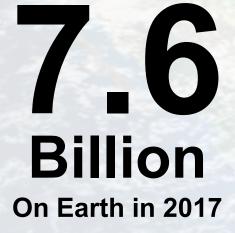
#### **Baseball Philosopher**



# "It's tough to make predictions – especially about the future."

(1) This quote was originally attributed to Karl Kristian Steincke

## **But Wait**



## **But Wait**

# 7.6 , 0.0

**By 2030** 

### **But Wait**

# 83 Million Per Year

**By 2030** 

#### At a global level, we are witnessing the most rapid expansion of the middle class the world has ever seen

At the end of 2016, there were about 3.2 billion people in the global middle class. On average 160 million will join the middle class annually for the next 5 years.





BROOKINGS

. added to the global find

# 88 percent of the next billion entrants into the middle class will be in Asia

ũ,

**By 2030,** Asia could represent 2/3 of the global middle class population.





**350**m

in CHINA

in rest of the WORLD

# 88 percent of the next billion entrants into the micRegion's Energy Mix: 50% Coal 50m

**By 2030,** Asia could represent 2/3 of the global middle class population.

210m in rest of ASIA

130m in rest of the WORLD

BROOKINGS

# 88 percent of the next billion entrants into the micRegion's Energy Mix: 50% Coal<sub>50m</sub>

By 2030, Asia could represent 2/3 of the global middle class population

# Lower Middle Class

130

in rest of the WORLD

BROOKINGS

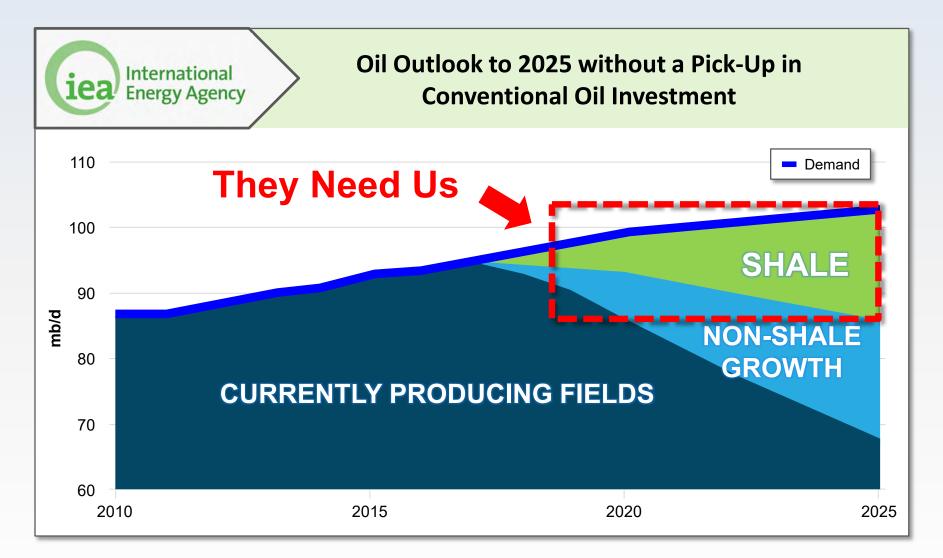
88 percent of the next billion entrants into the micRegion's Energy Mix: 50% Coal 50m

By 2030, Asia could represent 2/3 of the global middle class population

Lower Middle Class

They need energy any way they can get it – cheaply and easily

### Only One Place to Get It



#### We Are Not Going Out of Business.

#### Why Does Wall Street Hate Energy?



#### Not Care About Why Does Wall Street Hate Energy?



#### S&P 500 Energy



APACHE **ANADARKO BAKER HUGHES** CABOT **CONOCOPHILLIPS CHEVRON** CONCHO DEVON EOG EQT

**TECHNIPFMC** HALLIBURTON HESS HOLLYFRONTIER **HELMERICH & PAYNE KINDER MORGAN** MARATHON PETROLEUM **MARATHON OIL** NOBLE **NEWFIELD** 

ONEOK **OCCIDENTAL** PHILLIPS 66 PIONEER **SCHLUMBERGER** VALERO THE WILLIAMS COMPANIES CIMAREX **EXXON MOBIL** 

NATIONAL OILWELL VARCO

#### S&P 500 Energy

5 3 0 Of S&P 1 7 0 Upstream 500 Index Growth

**TECHNIPFMC APACHE HALLIBURTON ANADARKO HESS BAKER HUGHES** HOLLYFRONTIER CABOT **HELMERICH & PAYNE CONOCOPHILLIPS KINDER MORGAN MARATHON PETROLEUM CHEVRON CONCHO MARATHON OIL** DEVON **NOBLE** EOG **NEWFIELD** EQT NATIONAL OILWELL VARCO

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#### PIONEER

SCHLUMBERGER

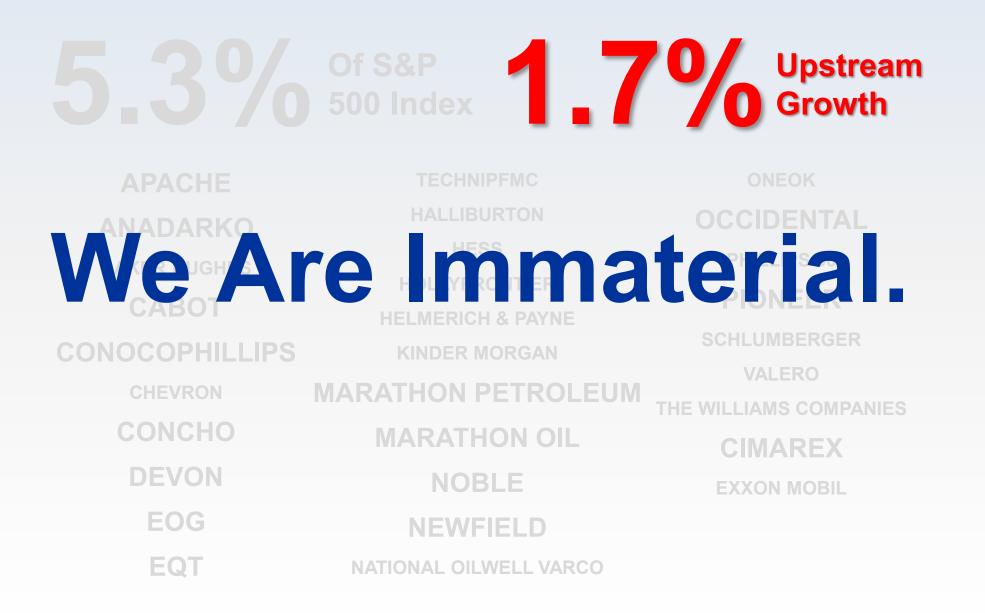
VALERO

THE WILLIAMS COMPANIES

CIMAREX

**EXXON MOBIL** 

#### S&P 500 Energy



# We Have Lost Money

	S&P	Energy	Outcome
2012	16.0%	4.6%	Worse
2013	32.4%	25.1%	Worse
2014	13.7%	<7.8%>	Worse
2015	1.4%	<21.1%>	Worse
2016	12.0%	27.4%	Better
2017	21.8%	<1.0%>	Worse
2018	<4.4%>	<18.1%>	Worse

### 6 Out of 7 Years

#### If You Are Wall Street

# TECHNOLOGY



BIG
20% of S&P 500

STRONG

Beat Energy by **10x** for the Past 7 Years

SEXY

#### If You Are Wall Street



Small

Weak

Boring

# **Energy Investors Want**

- Growth Within Cash Flows
- Return of Capital Dividends or Share Buybacks
- Consolidation to Achieve Economies of Scale

# What Does This Mean To YOU ?

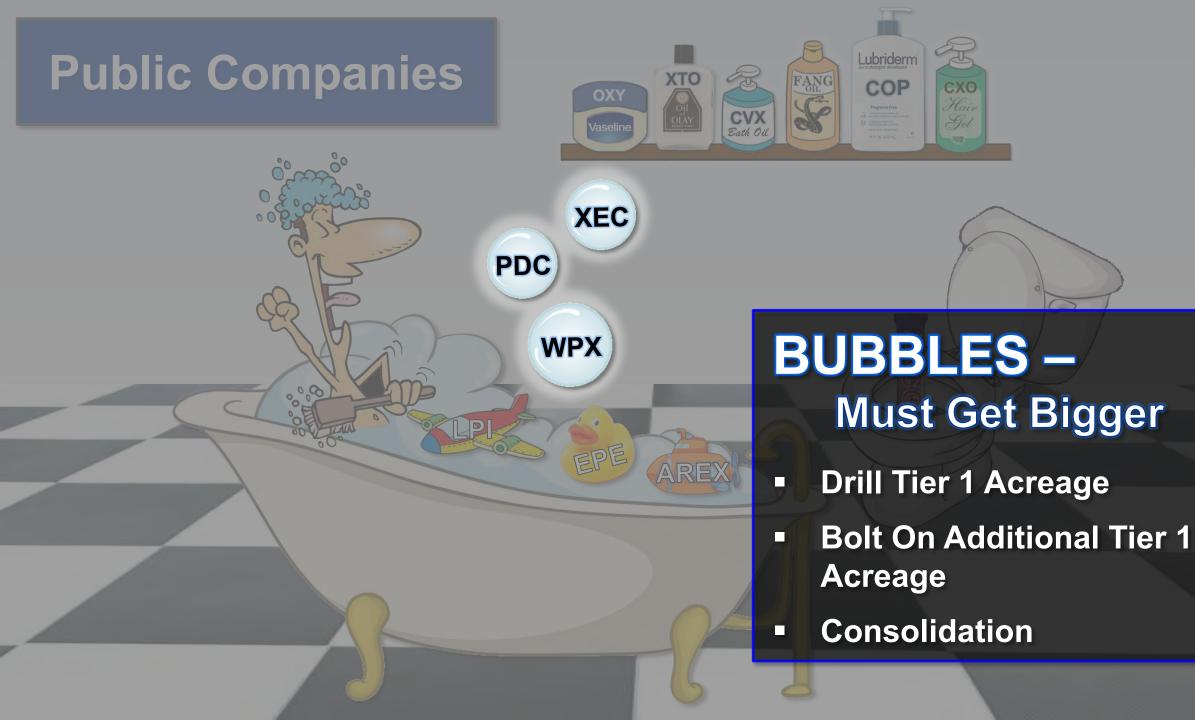


# It Depends Who You Are





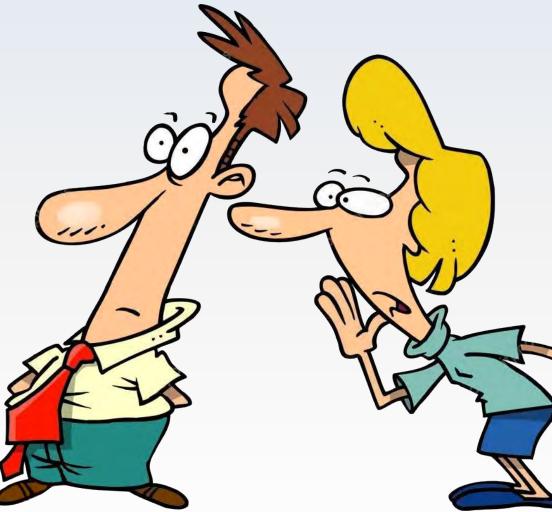




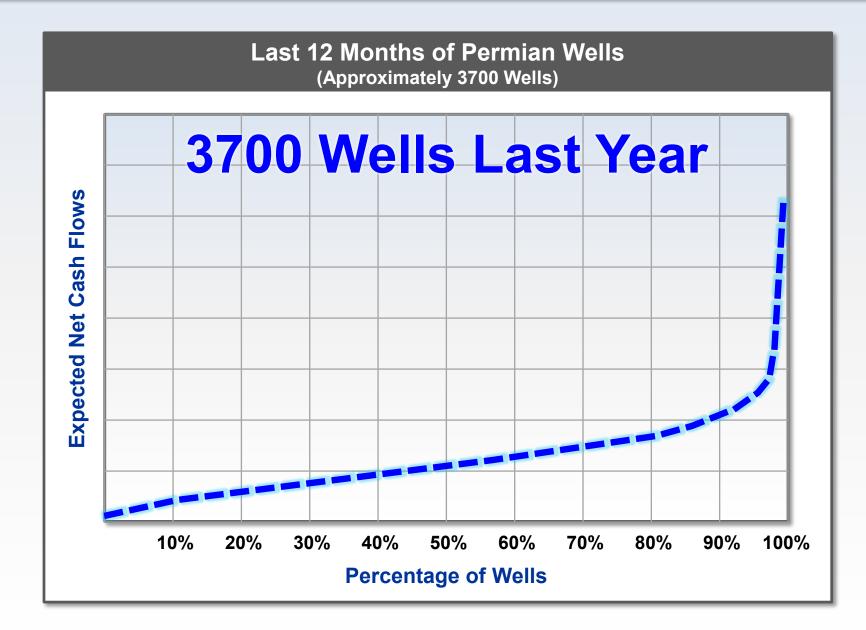


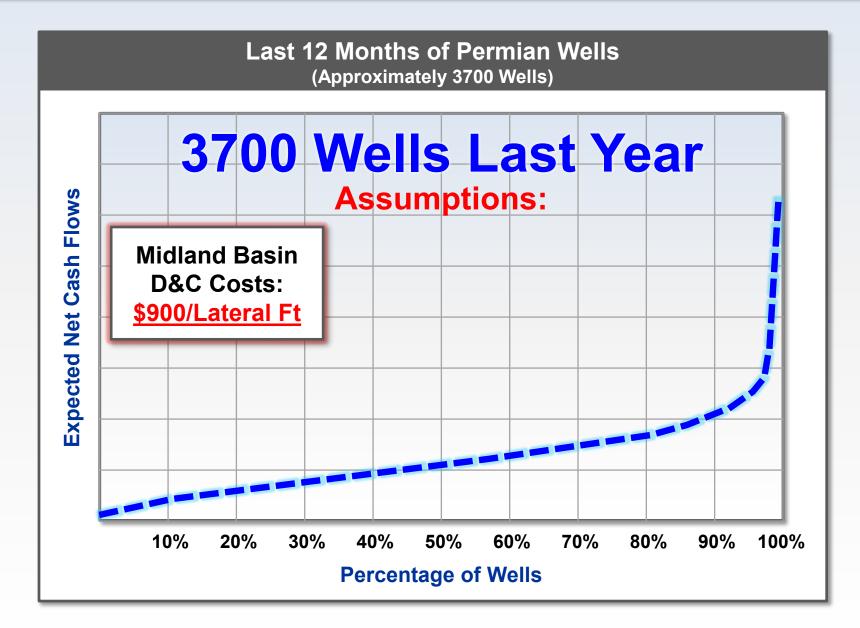


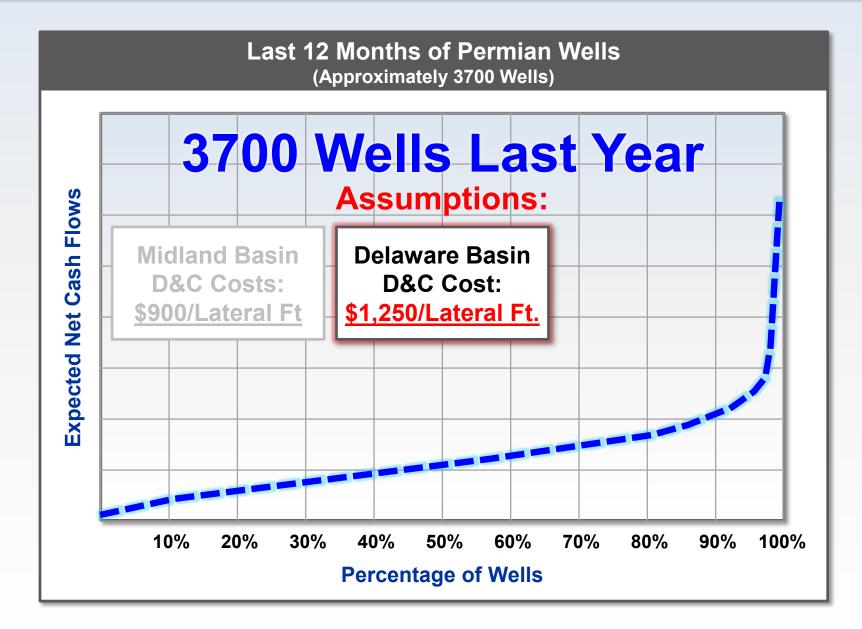
#### What is Tier 1 Acreage?

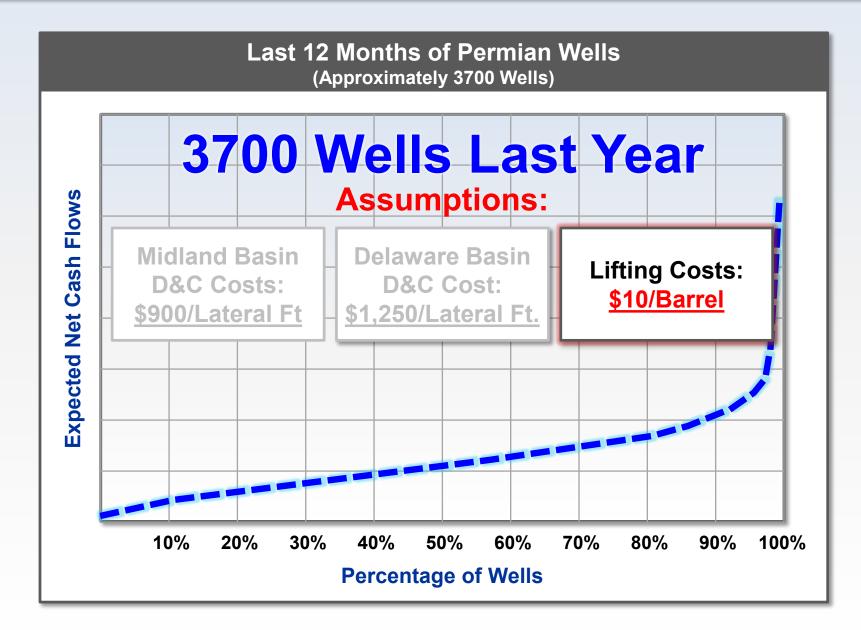


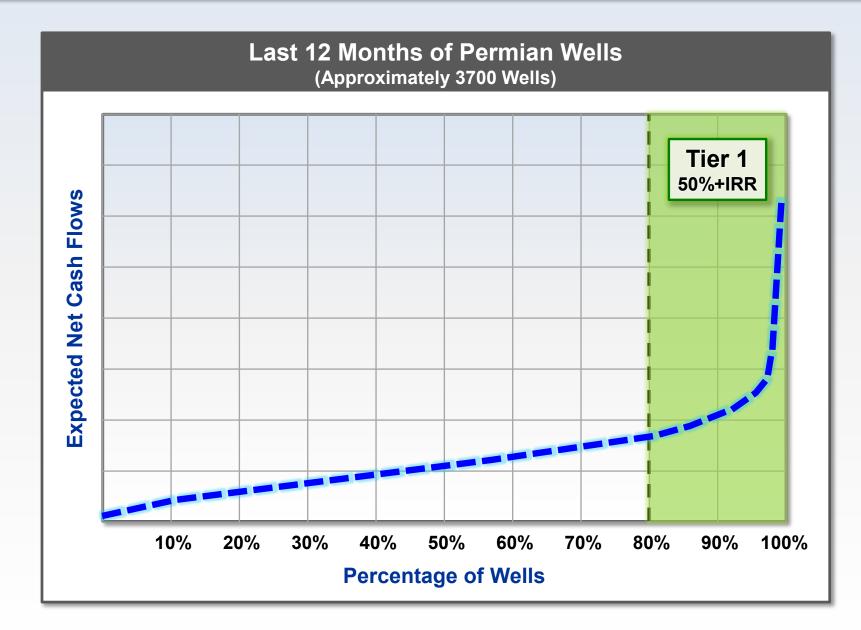
Tier 1 = 50% Well IRRs at \$60 Oil Excluding Land Cost

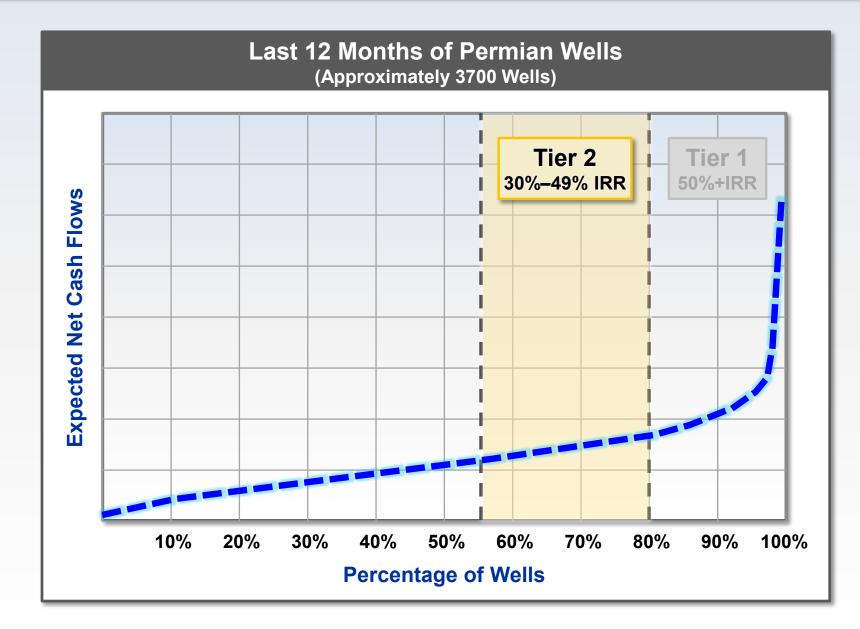


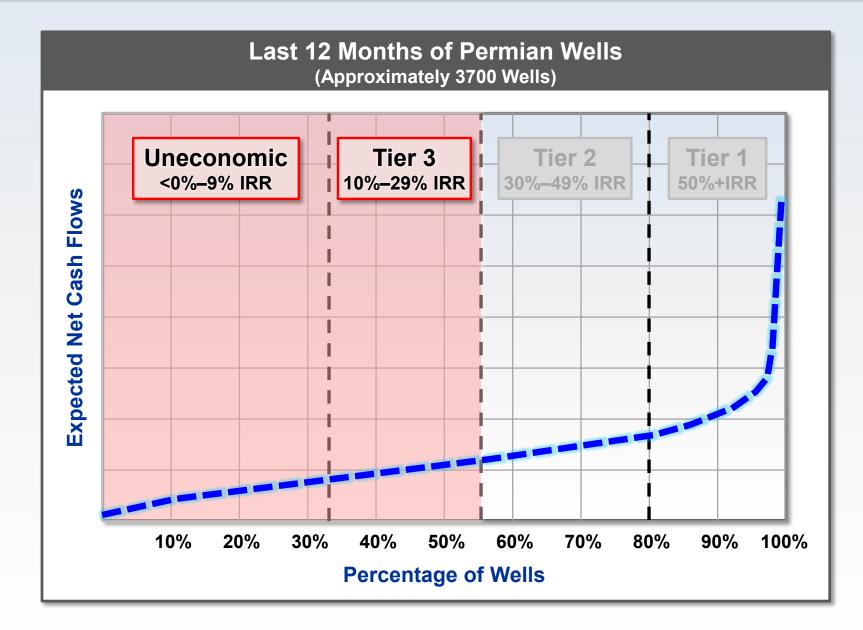












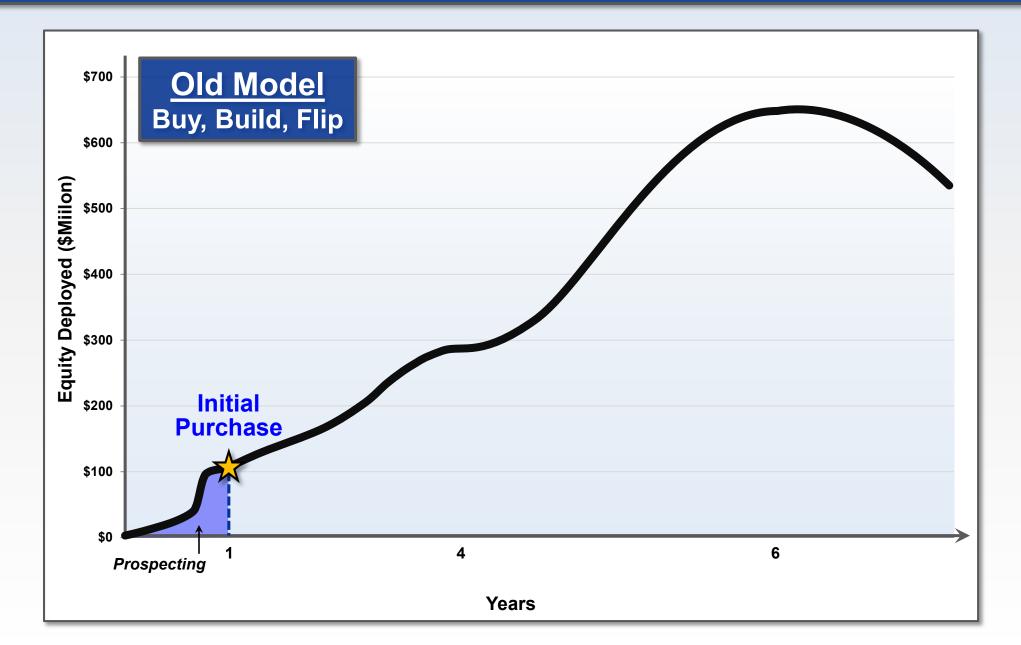
#### If You Are Private Equity Backed



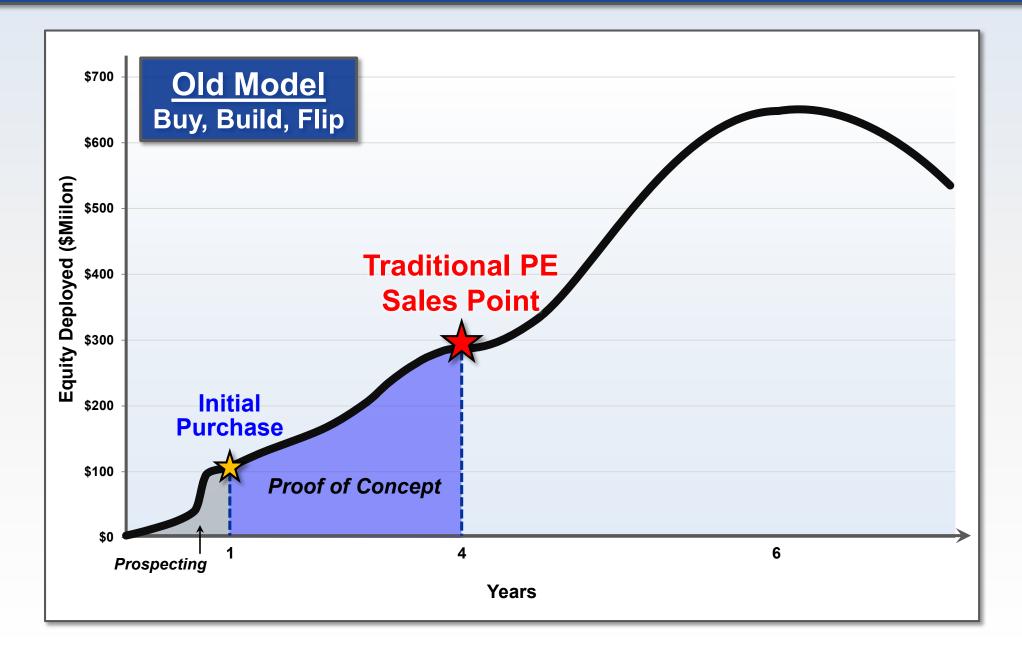
#### If You Are Private Equity Backed



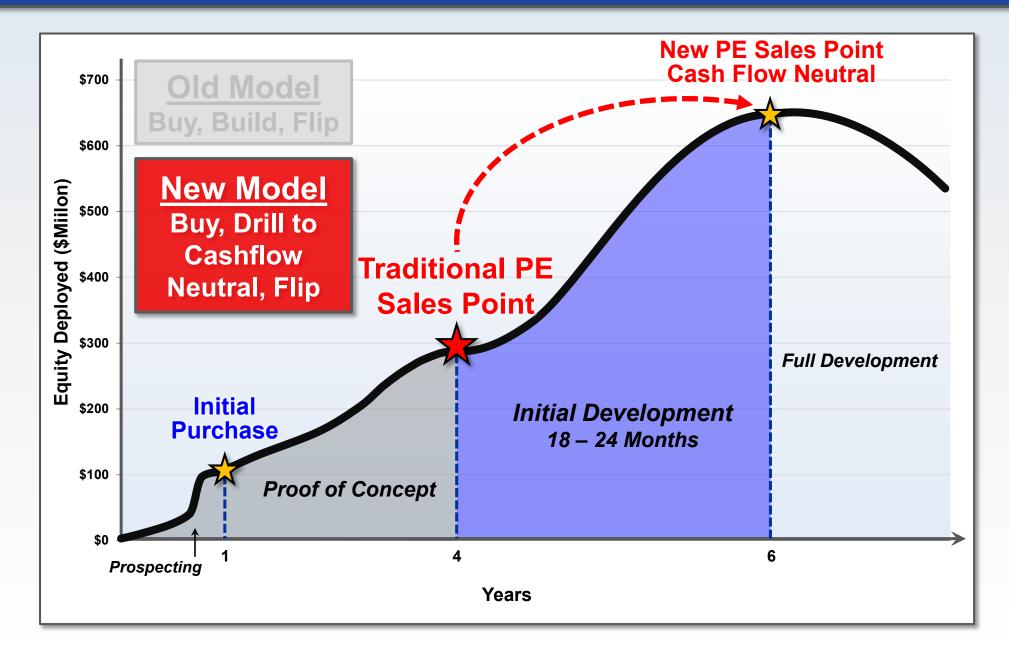
#### **Tier 2 Assets – New Model**



#### **Tier 2 Assets – New Model**



#### **Tier 2 Assets – New Model**



#### Expect Longer Hold Periods

#### to Drill Wells Efficiently

والمراجع والكالي والأراب ولكان والمروام كال

#### More Common

Newco

#### **Expect Longer Hold Periods**

#### Expect Lower ROIs

#### to Drill Wells Efficiently

ويجاجبهم والالالبيني المتكاريط والمتعادم وكال

More Common

Newco

#### Expect Longer Hold Periods

#### Expect Lower ROIs

#### Bigger Teams – Must Be Able to Drill Wells Efficiently

Second Coulling 2 a contra

#### More Common

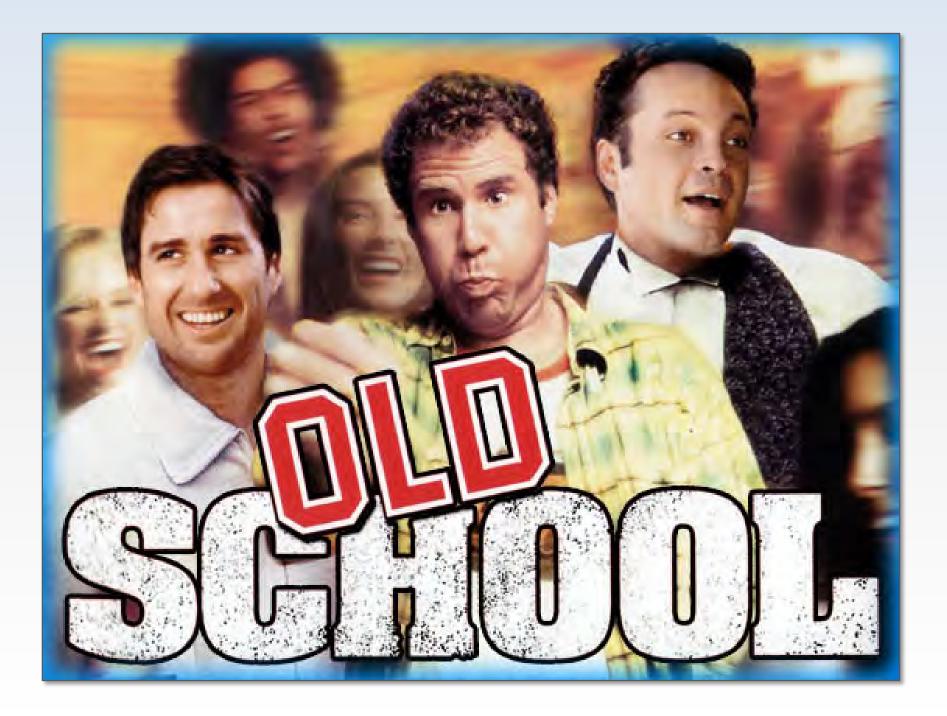
#### Expect Longer Hold Periods

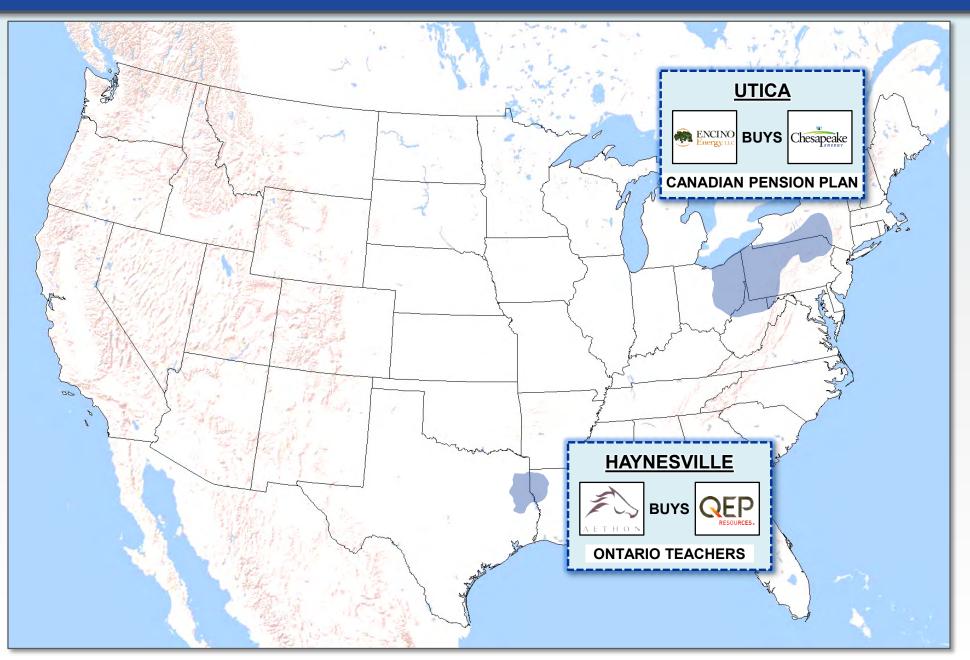
> Expect Lower ROIs

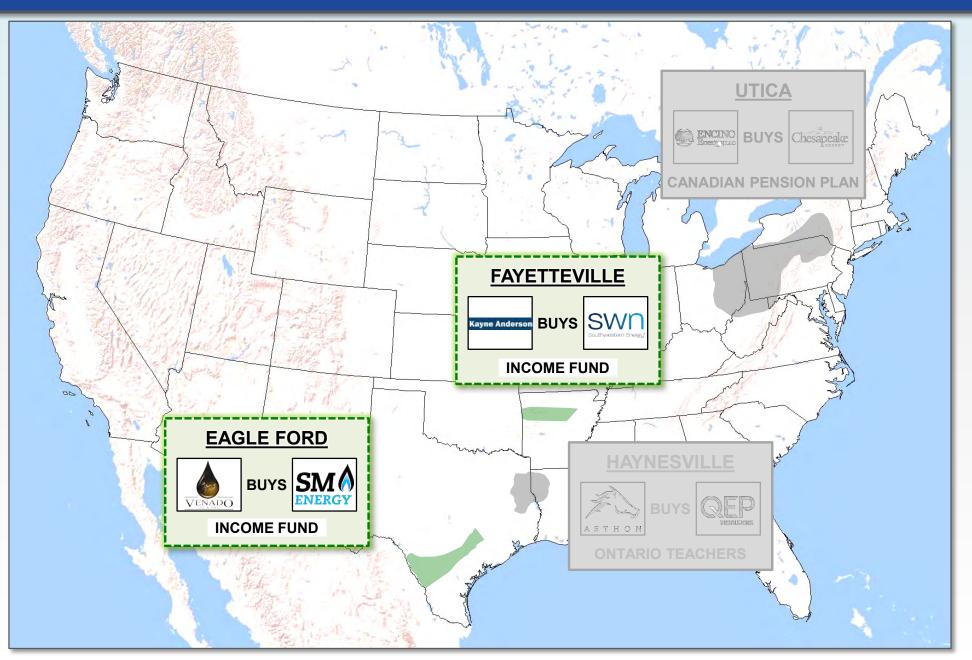
> Bigger Teams – Must Be Able to Drill Wells Efficiently

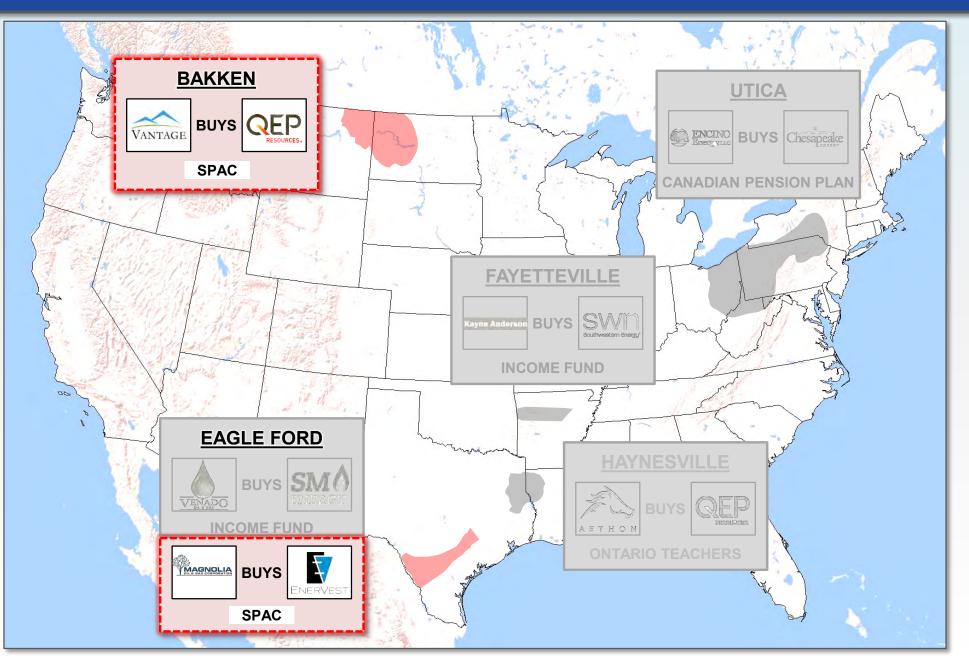
Smash Co. May Become More Common

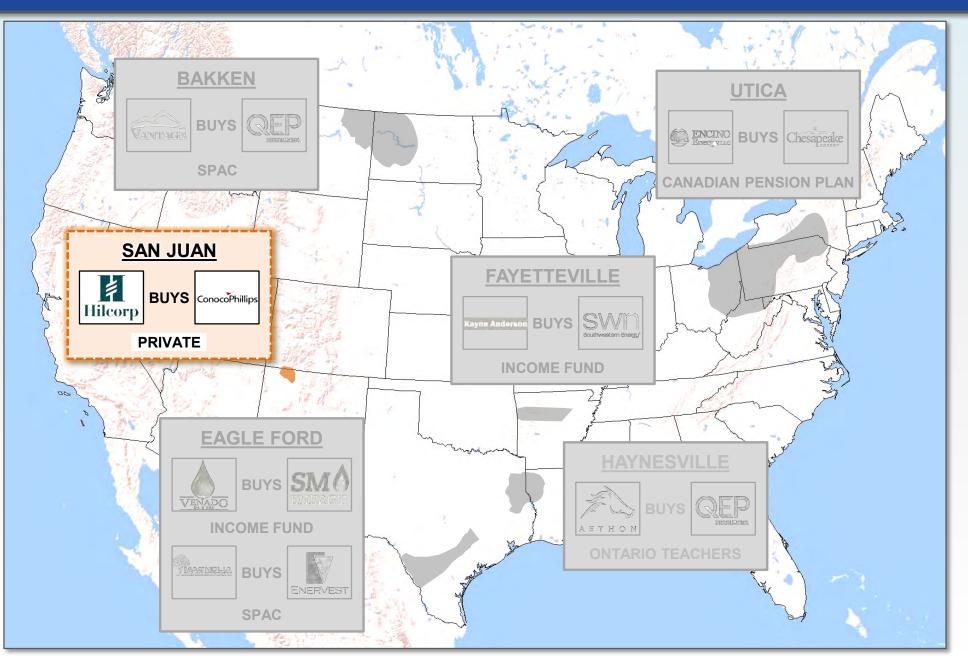












# Best Deals Come Out of the Fog

# Best Deals Come Out of the Fog

Change is Inevitable

Best Deals Come Out of the Fog

Change is Inevitable

Is the Party Over?

Best Deals Come Out of the Fog

Change is Inevitable

Is the Party Over?



# **One More Thing**

# TROUBLE BREWING





**Private Equity Investor** 

#### **Wall Street Investor**





#### **Private Equity Investor**

Must beat the S&P 500

#### **Wall Street Investor**

Must Beat the S&P 500





#### **Private Equity Investor**

- Must beat the S&P 500
- Wants to be a <u>Social Investor</u> Hydrocarbons are out of Favor

#### **Wall Street Investor**

- Must Beat the S&P 500
- Only Cares about Making Money





#### **Private Equity Investor**

- Must beat the S&P 500
- Wants to be a <u>Social Investor</u> Hydrocarbons are out of Favor
- Has Longer Hold Periods

#### **Wall Street Investor**

- Must Beat the S&P 500
- Only Cares about Making Money
- Can Have Short-Term Thesis