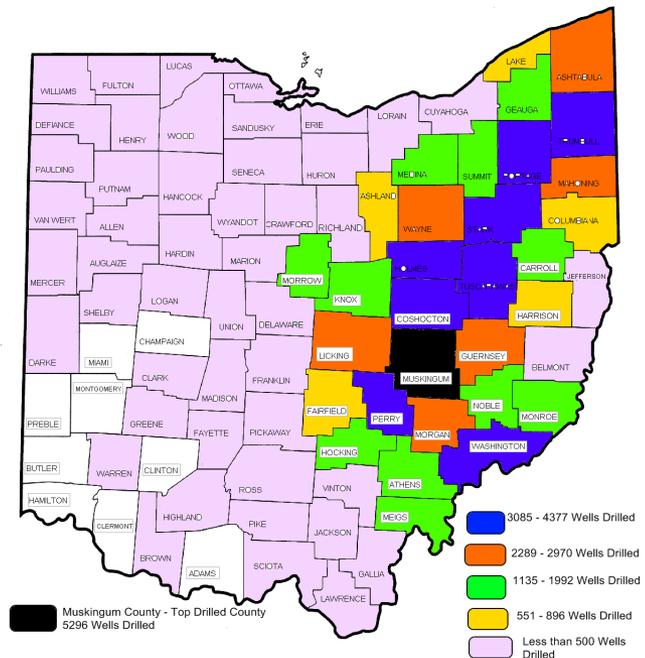
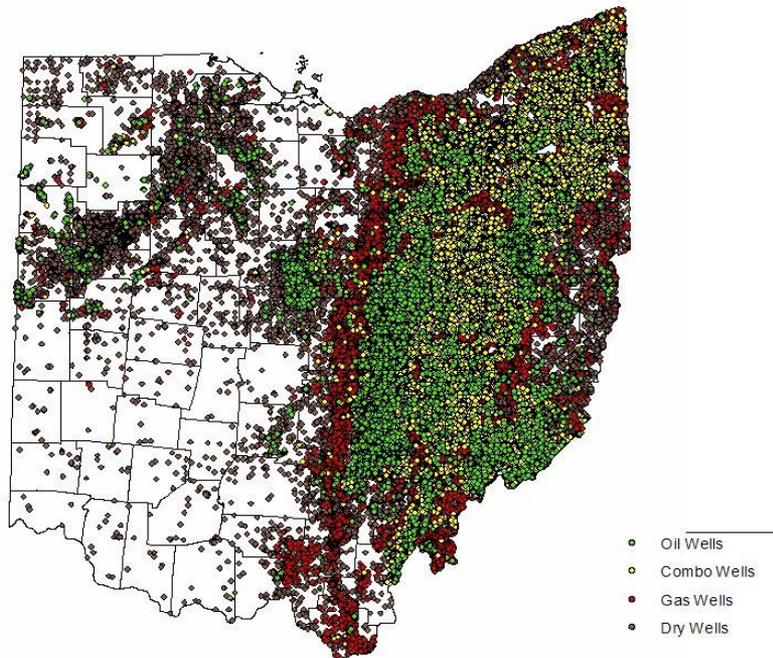


Ohio Aggregates & Industrial Minerals Association

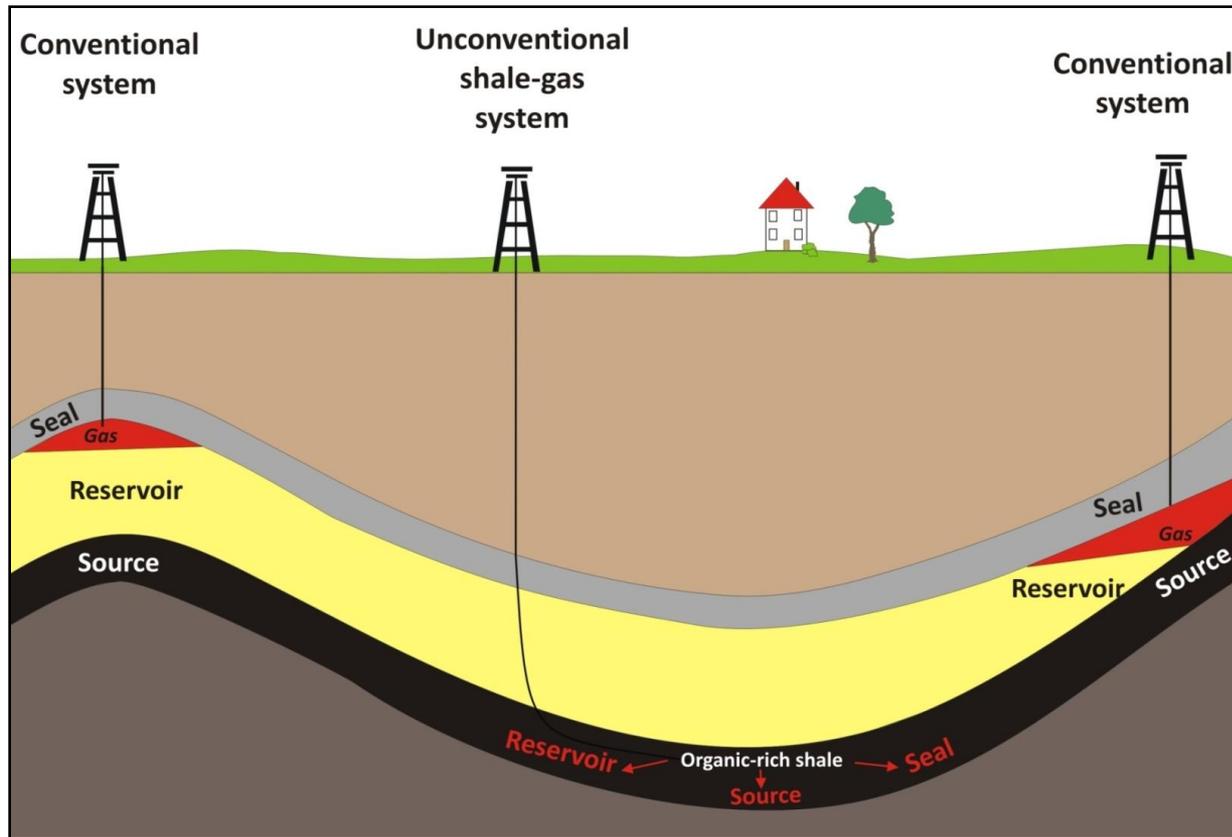
April 27, 2012



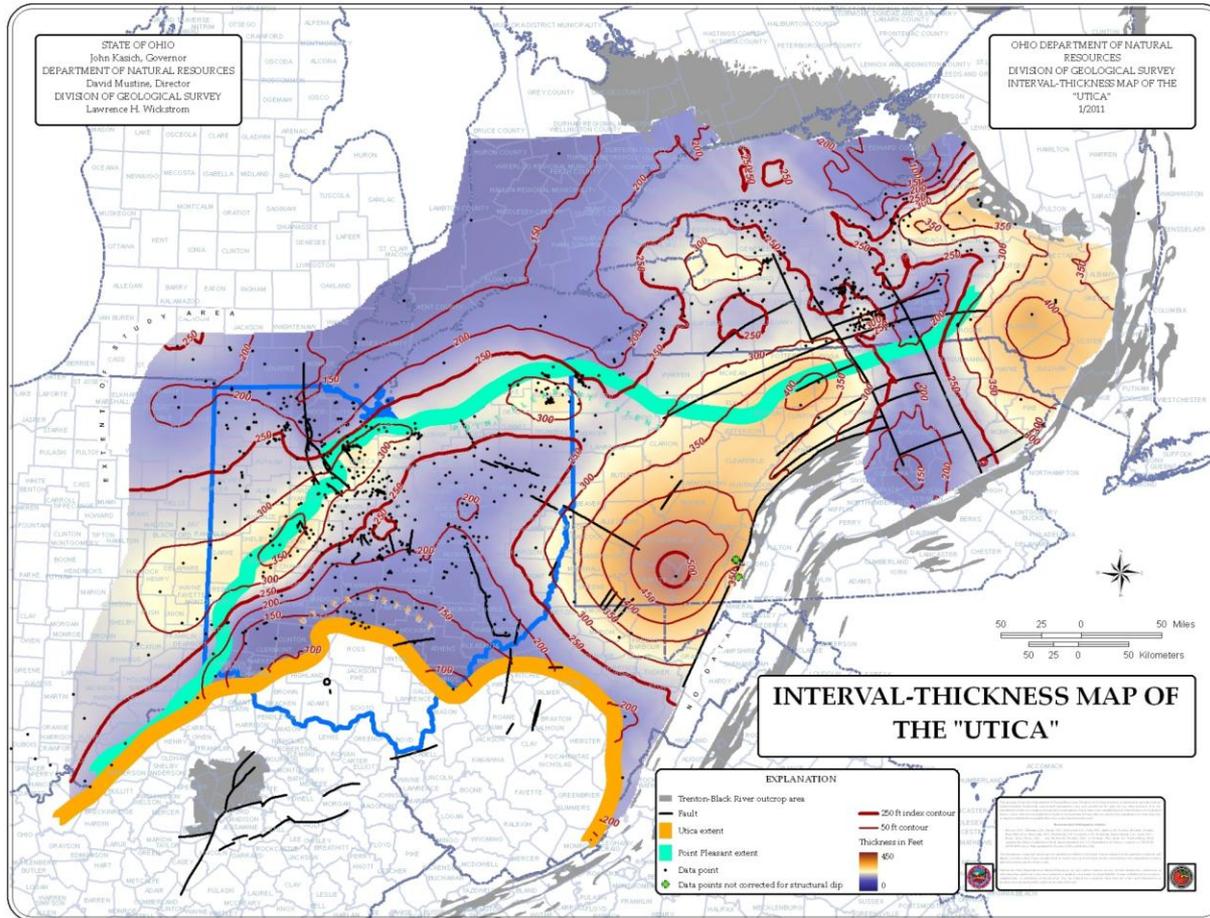
- Ohio well spot map shows significant development in three of four Ohio quadrants.
- And, while geology dictates that eastern Ohio is dominant, in modern times wells have been drilled in 79 of 88



Technology & Source Rocks

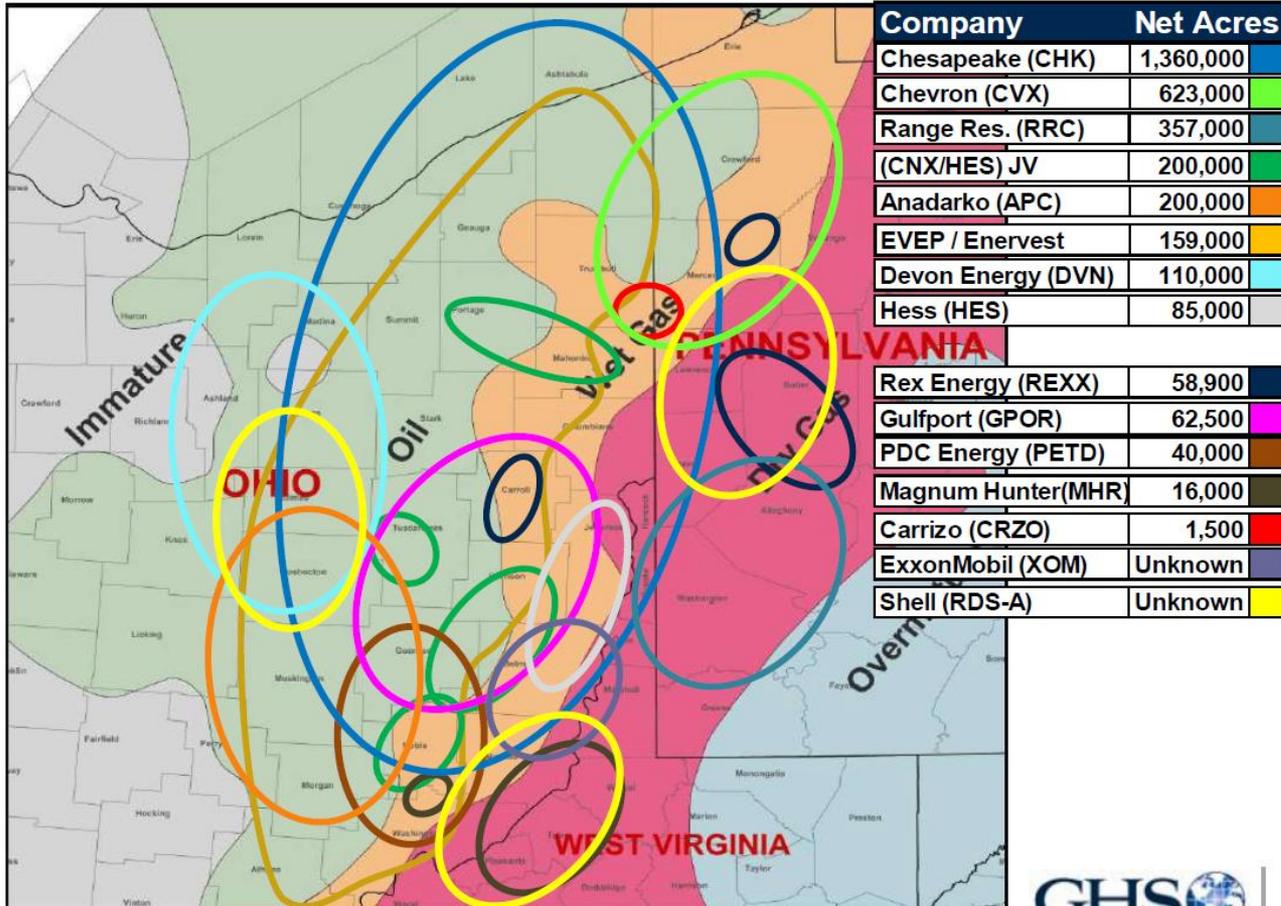


Prior to the late 1990s these shales were thought of principally as the source of oil and gas that would then migrate slowly over time into “conventional” reservoirs.

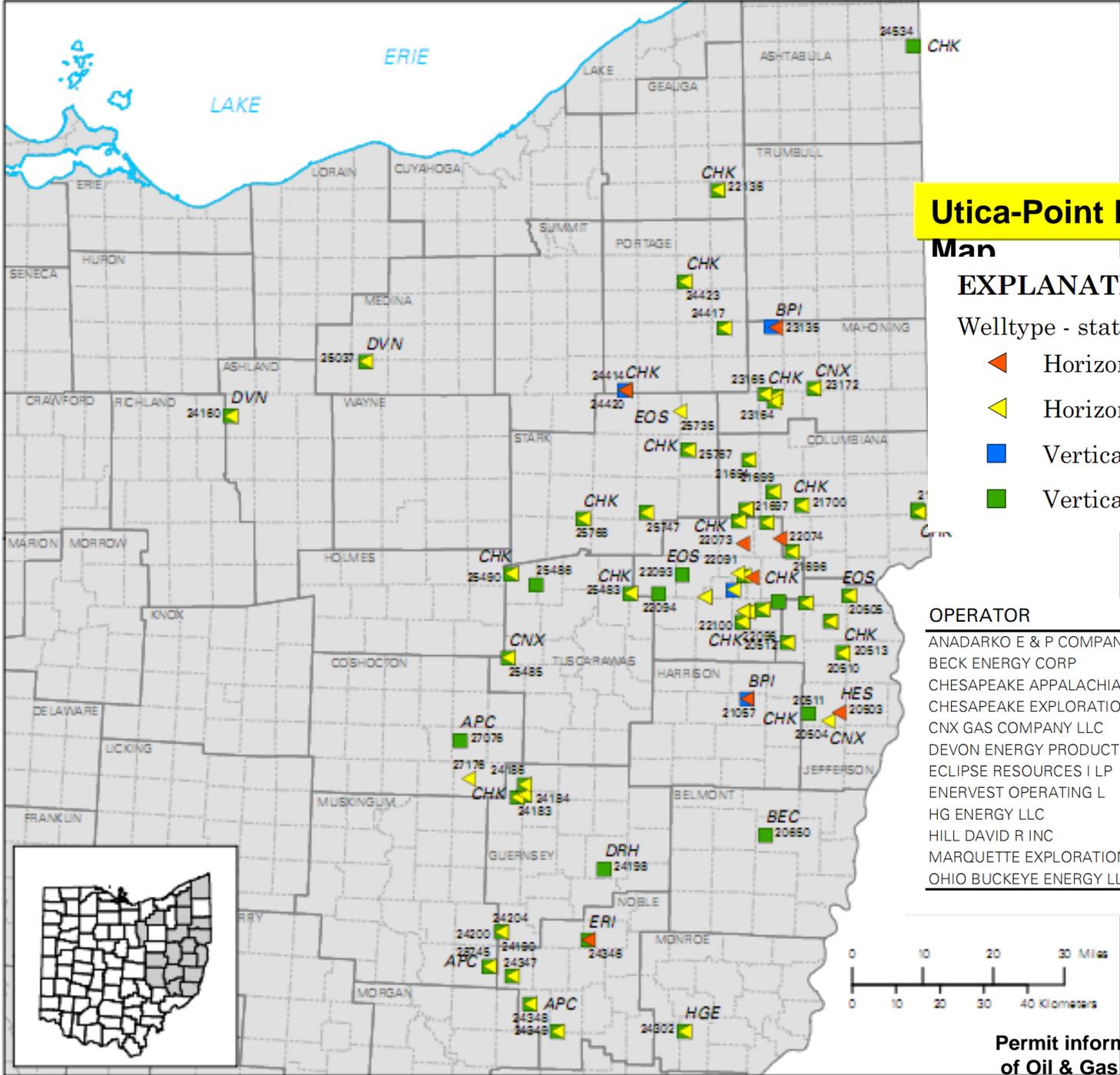


Ohio Play and Acreage Positions

Acreage Positions



Source: Company Data, modified Gulfport map, GHS Research



Utica-Point Pleasant Activity

Man

EXPLANATION

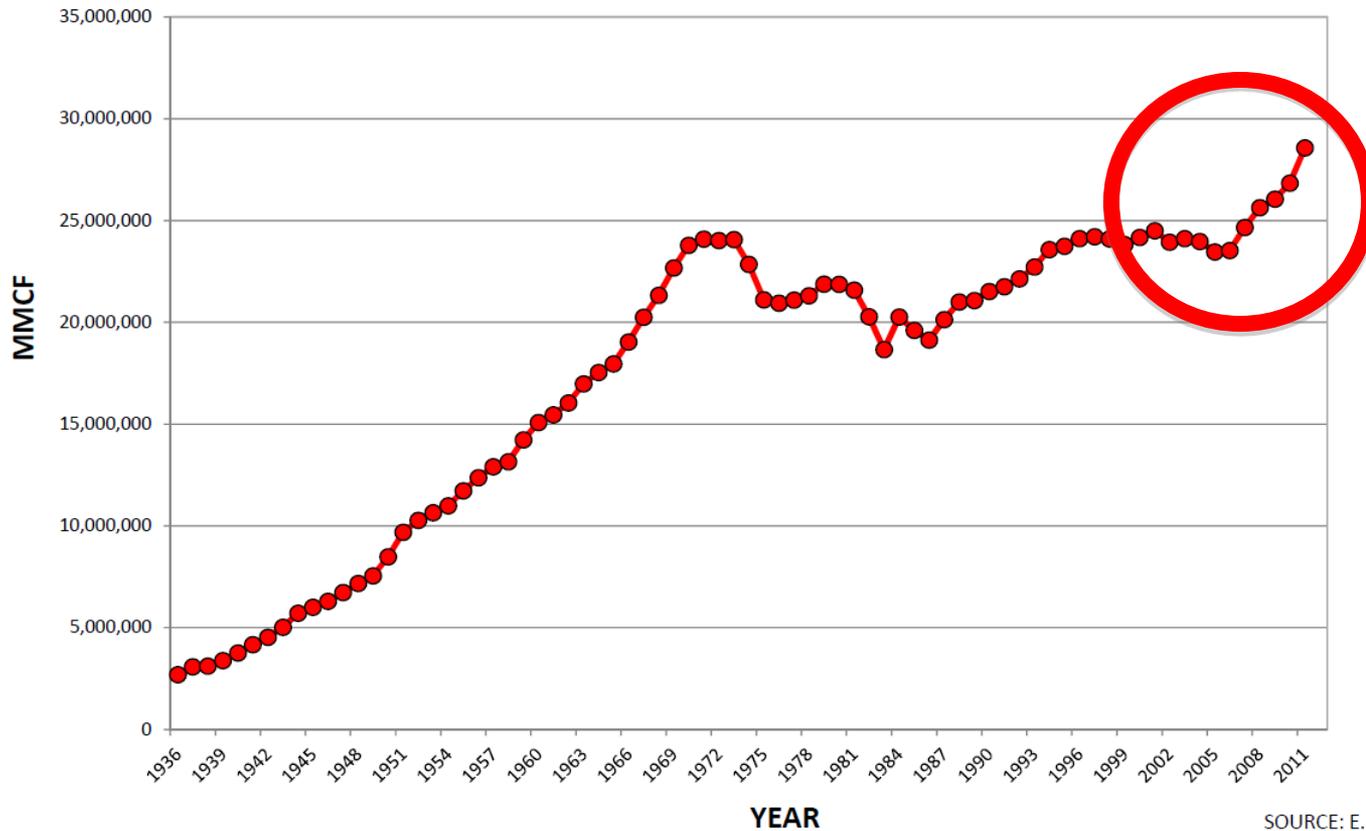
Welltype - status

- ◀ Horizontal - drilled or drilling
- ▶ Horizontal - permitted
- Vertical - drilled or drilling
- Vertical - permitted

OPERATOR	SYMBOL	COUNT
ANADARKO E & P COMPANY LP	APC	14
BECK ENERGY CORP	BEC	1
CHESAPEAKE APPALACHIA LLC	CHK	9
CHESAPEAKE EXPLORATION LLC	CHK	84
CNX GAS COMPANY LLC	CNX	5
DEVON ENERGY PRODUCTION CO	DVN	4
ECLIPSE RESOURCES I LP	ERI	2
ENERVEST OPERATING L	EOS	5
HG ENERGY LLC	HGE	2
HILL DAVID R INC	DRH	1
MARQUETTE EXPLORATION LLC	HES	1
OHIO BUCKEYE ENERGY LLC	BPI	4
TOTAL		132

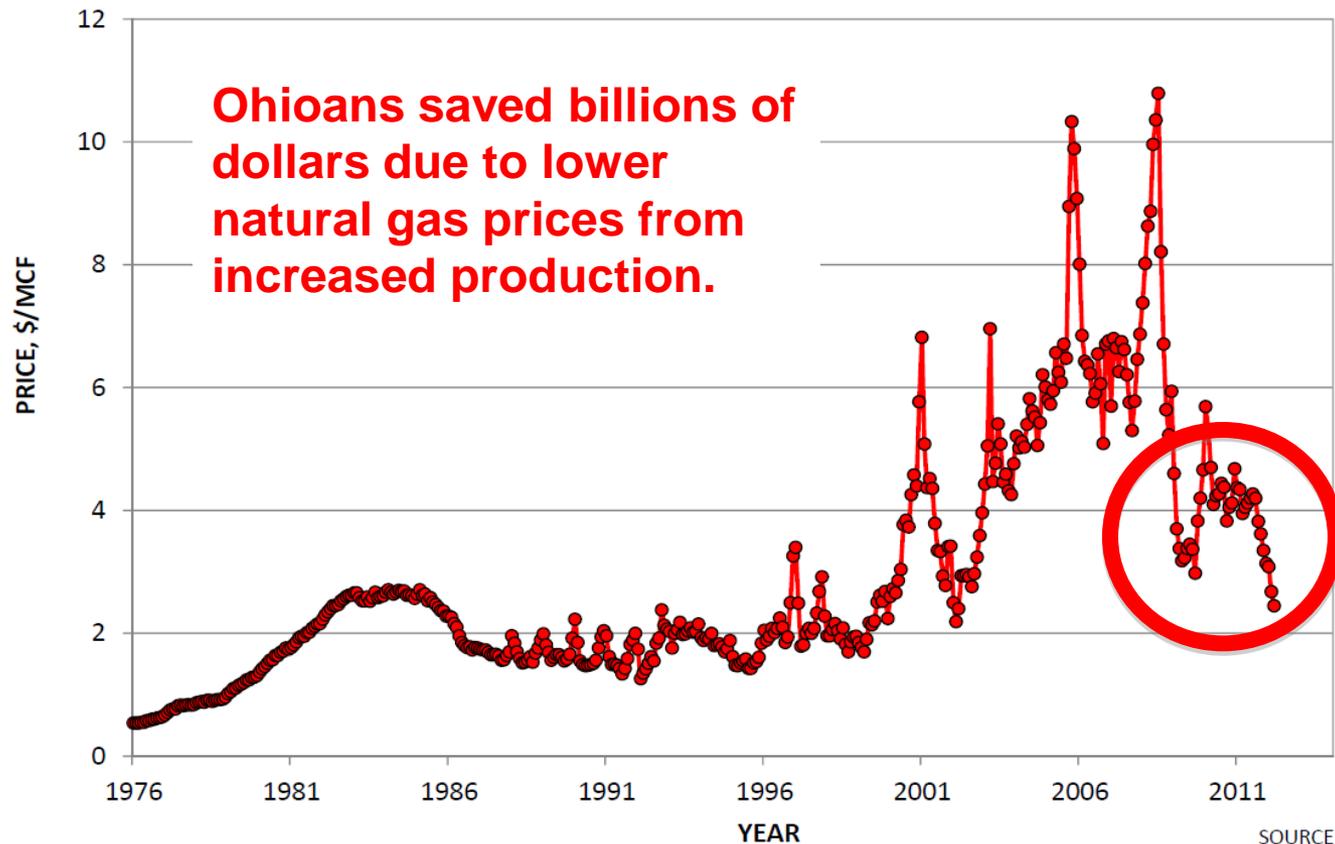


U.S. NATURAL GAS PRODUCTION 1936 TO 2011



SOURCE: E.I.A.

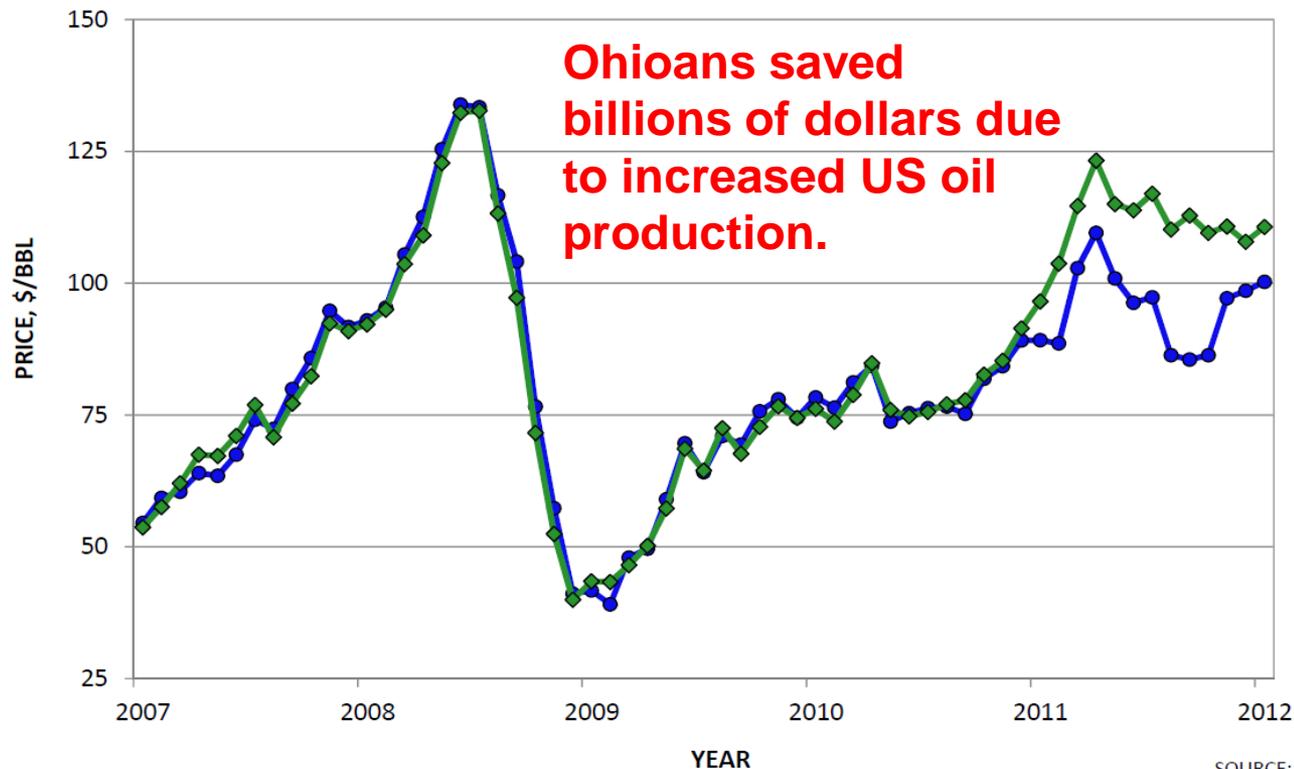
U.S. NATURAL GAS PRICES 1976 TO MARCH 2012



COMPARISON

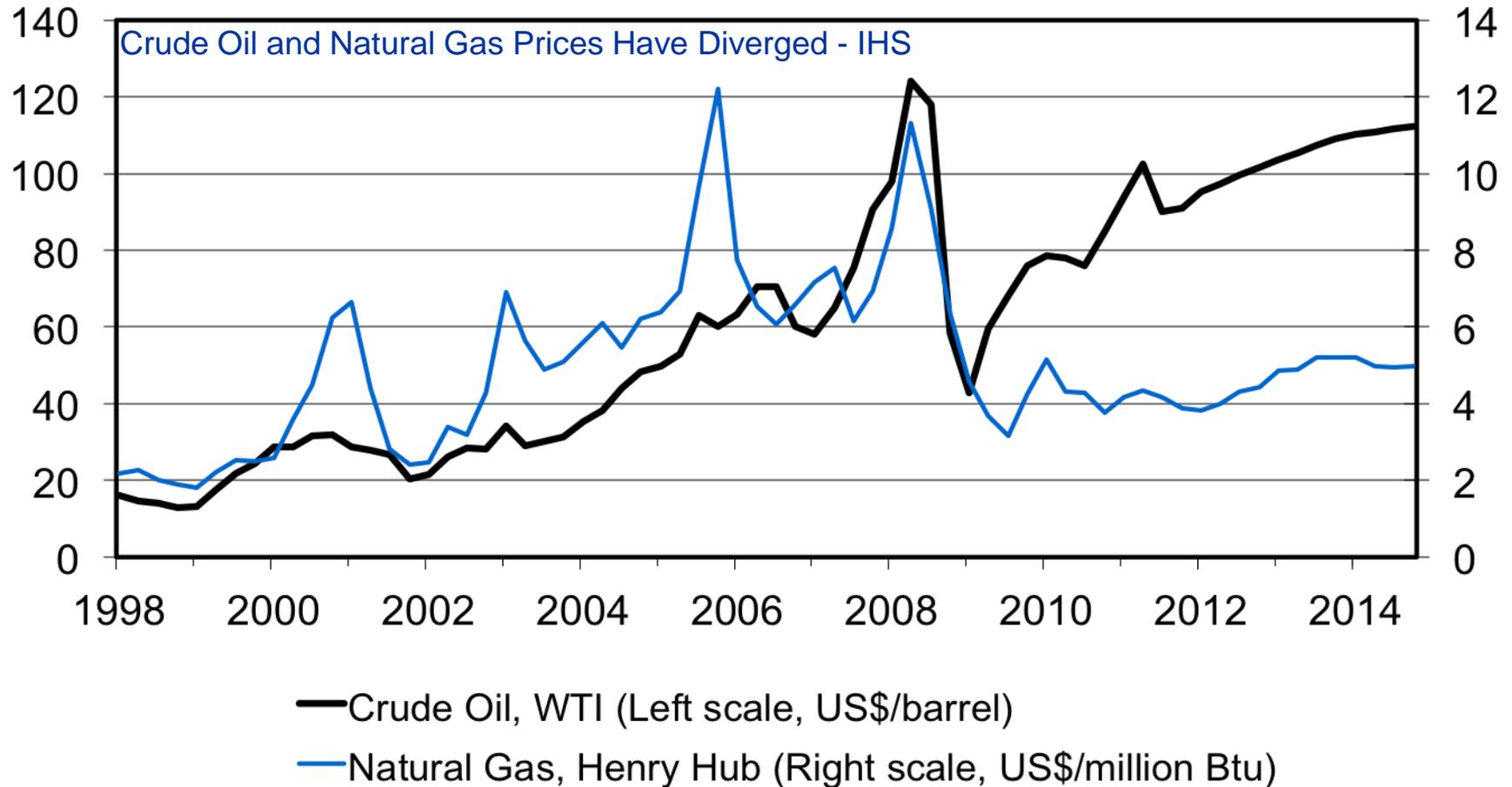
—●— WTI CRUDE OIL SPOT PRICE (U.S.)

—◆— BRENT CRUDE OIL SPOT PRICE (EUROPE)



Does it make a difference?

10

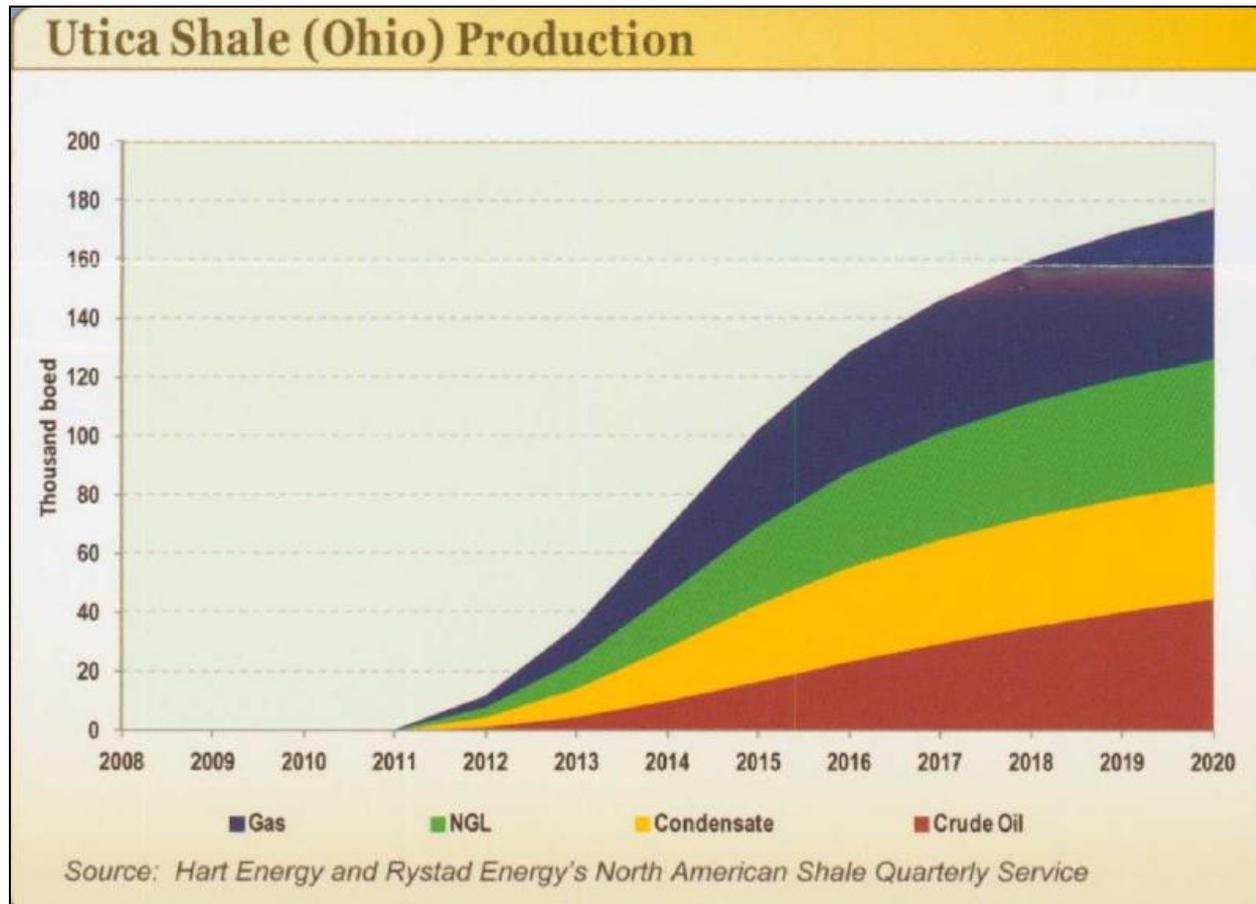


What's In It for Ohio?



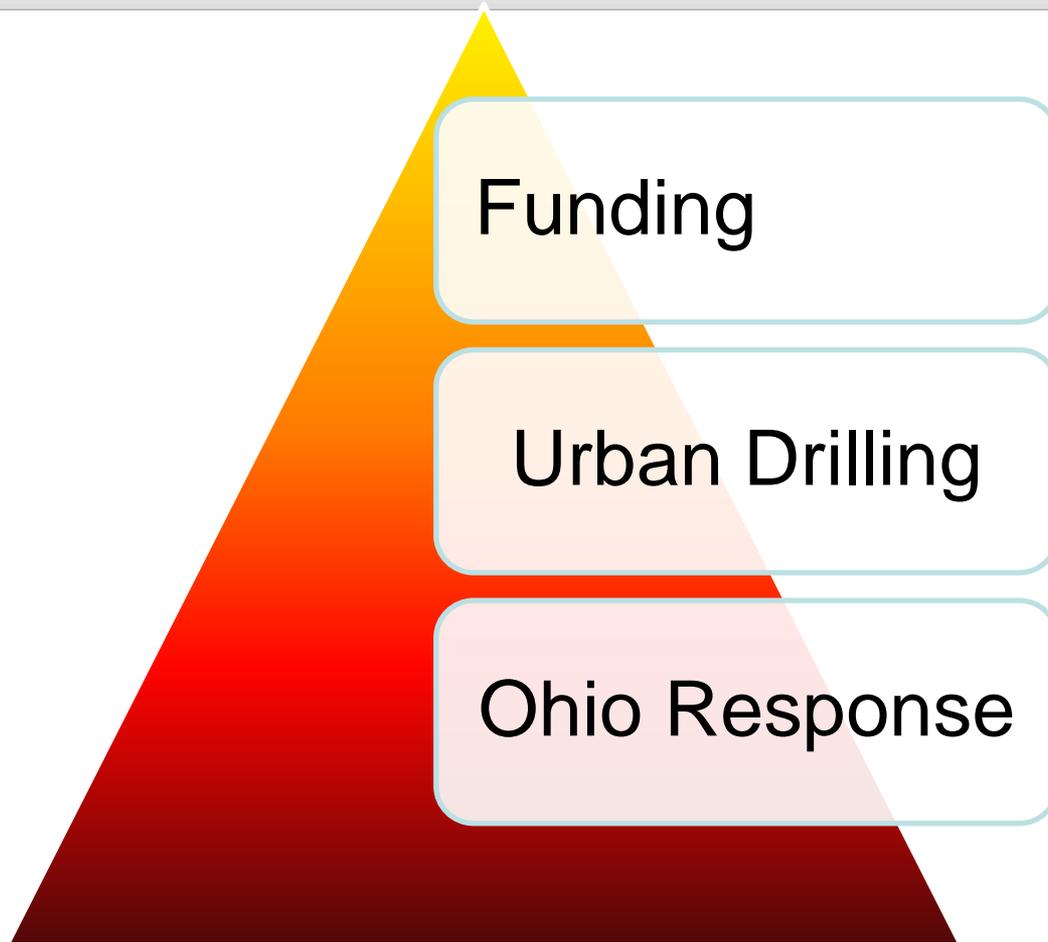
- Possibly 5 billion barrels of oil and 15 trillion cubic feet of gas
- Natural gas trading at deep discount of 40:1
- Ohioans saving billions in energy costs
- 200,000 jobs
- \$34 billion in investment
- Eastern Ohio economic rejuvenation
- To Date: \$2.75 billion industrial investment (excluding leasing, royalties and operations)
- Expansion of Proven Reserves – and that matters

What Proven Reserves May Produce



S.B. 165 – Three Major Components

13



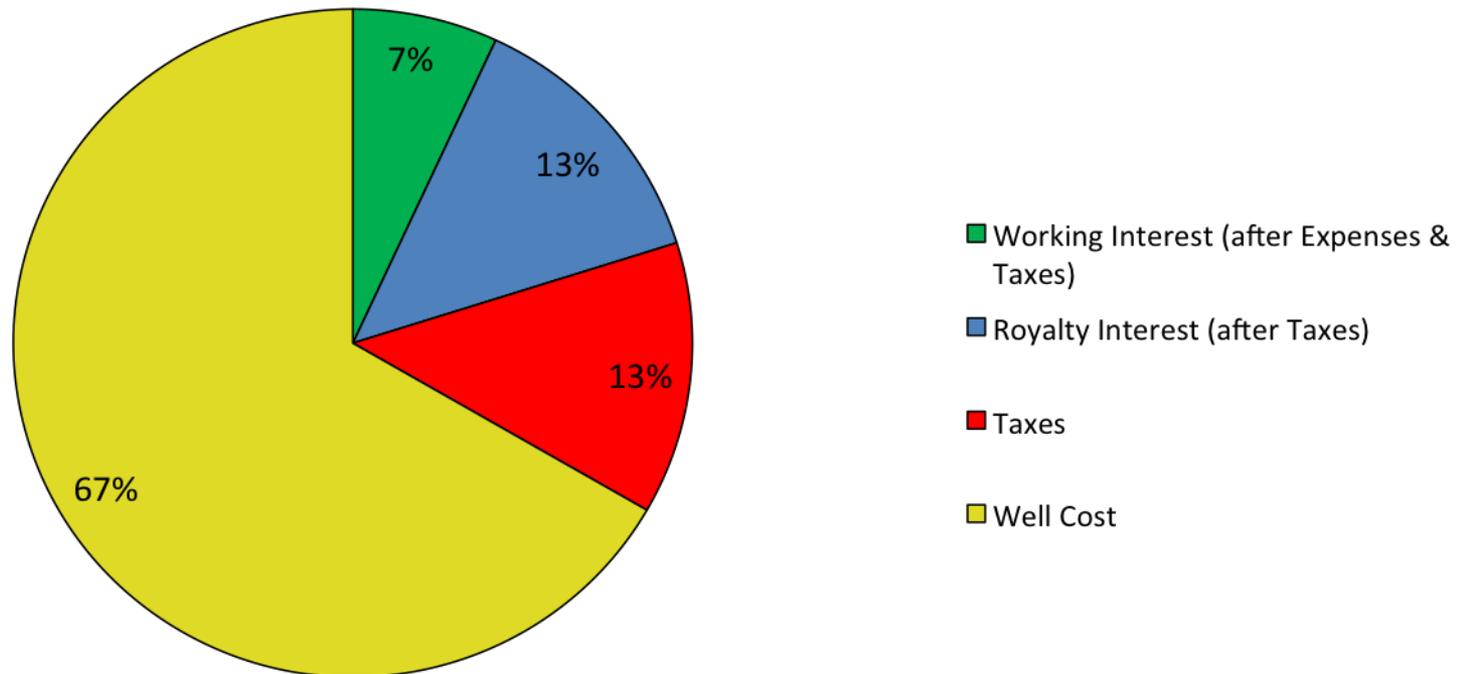
Taxes Paid by Oil and Gas Producers in Ohio



- **Income**
Personal and corporate (Subchapter S)
- **Commercial Activity (CAT)**
0.26% of gross receipts
- **Sales**
- **Ad Valorem**
- **Severance**
- **Fuel Use**

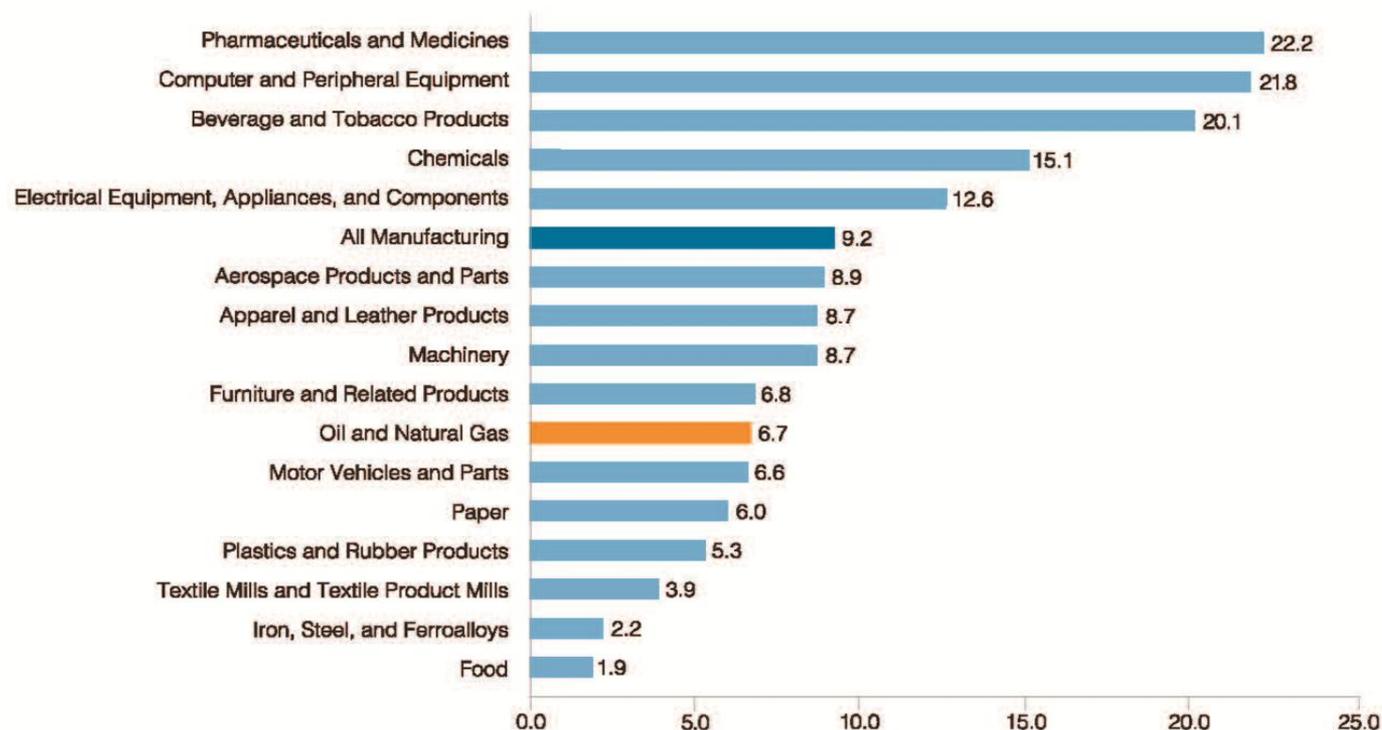
Natural Gas Well Costs

Proceeds Breakdown



How Do Oil and Gas Profits Compare to Other Industries?

Third Quarter 2011 Earnings by Industry (cents of net income per dollar of sales)



Sources: Based on company filings with the federal government as reported by U.S. Census Bureau and Standard & Poor's Research Insight.

Source: American Petroleum Institute

Projected Increase in Tax Revenue from Utica Shale Production



Kleinhenz & Associates analyzed expected tax revenue from oil and gas production in the Utica shale formation in Ohio and estimated the potential increase at the current tax rates.

Conclusion: Utica shale development is projected to result in a **\$1.05 billion** increase in tax revenue for state and local governments beginning in 2015.

- \$32 million from additional severance taxes will fund the state's oil and gas regulatory agency
- \$638 million in additional CAT, income and sales taxes will go to Ohio's general fund
- \$129 million will flow to local governments; \$50 million to their general funds
- \$255 million in additional income-tax revenue will go to municipalities' general funds

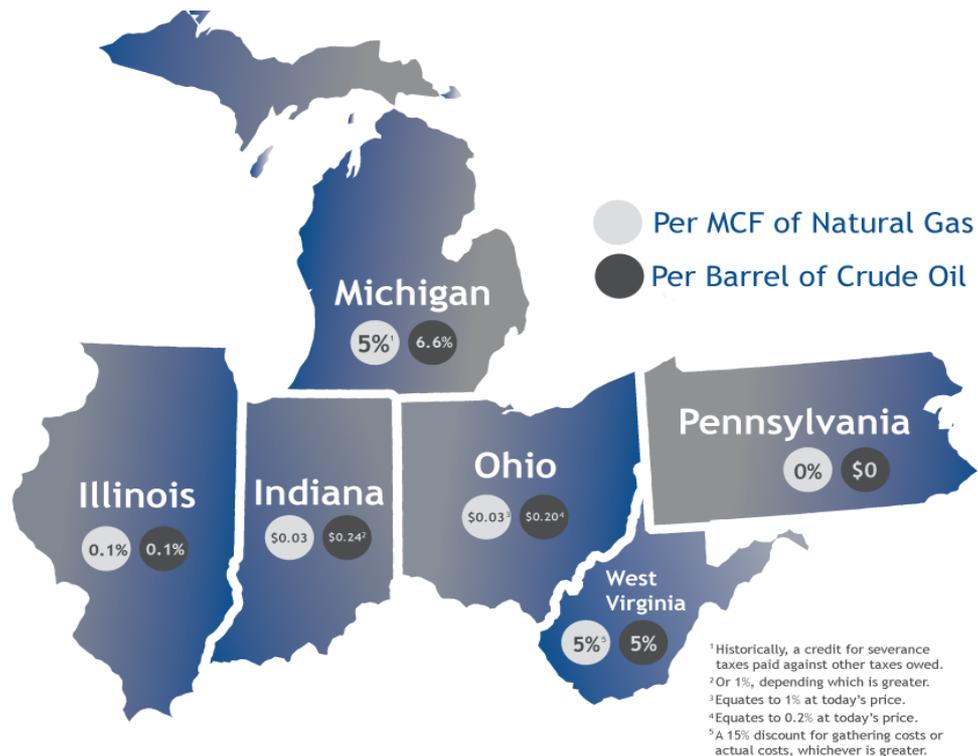
State			
Type of Tax	2010 Collections: All Ohio Firms (millions)	Additional 2015 Collections due to Utica (millions)	Percent Growth in Tax Collections due to Utica Development
CAT	\$1,342	\$43	3%
Income	\$7,887	\$380	5%
Sales	\$7,254	\$215	3%
Severance*	\$11	\$32	291%
Total	\$16,494	\$670	4%
<small>*Ohio oil and gas industry paid approx \$3 million of Severance tax in 2010.</small>			
County			
Type of Tax	2010 Collections* (millions)	Additional 2015 Collections due to Utica (millions)	Percent Growth in Tax Collections due to Utica Development
Sales Paid by All Ohio Industries	\$3,151	\$50	2%
Ad Valorem Paid by Oil and Gas Industry	\$6	\$79	1300%
Total	\$3,159	\$129	4%
<small>*Based upon all 88 Ohio counties. Actual collections will vary by county.</small>			
Municipal			
Type of Tax	2008 Collections: All Ohio Industries (millions)	Additional 2015 Collections due to Utica (millions)	Percent Growth in Tax Collections due to Utica Development
Income	\$4,165	\$255	6%
Total All Sources			
Total Tax Revenues	\$23,818	\$1,054	4%

Severance Tax



- Previously, operators paid a severance tax of 10 cents per barrel of oil or 2.5 cents per thousand cubic feet (MCF) of natural gas produced by a well
- Under Senate Bill 165, operators are now charged 20 cents per barrel of oil and 3 cents MCF of natural gas through a regulatory, cost-recovery assessment that operates like the severance tax (Ohio Revised Code Section 1509.50)

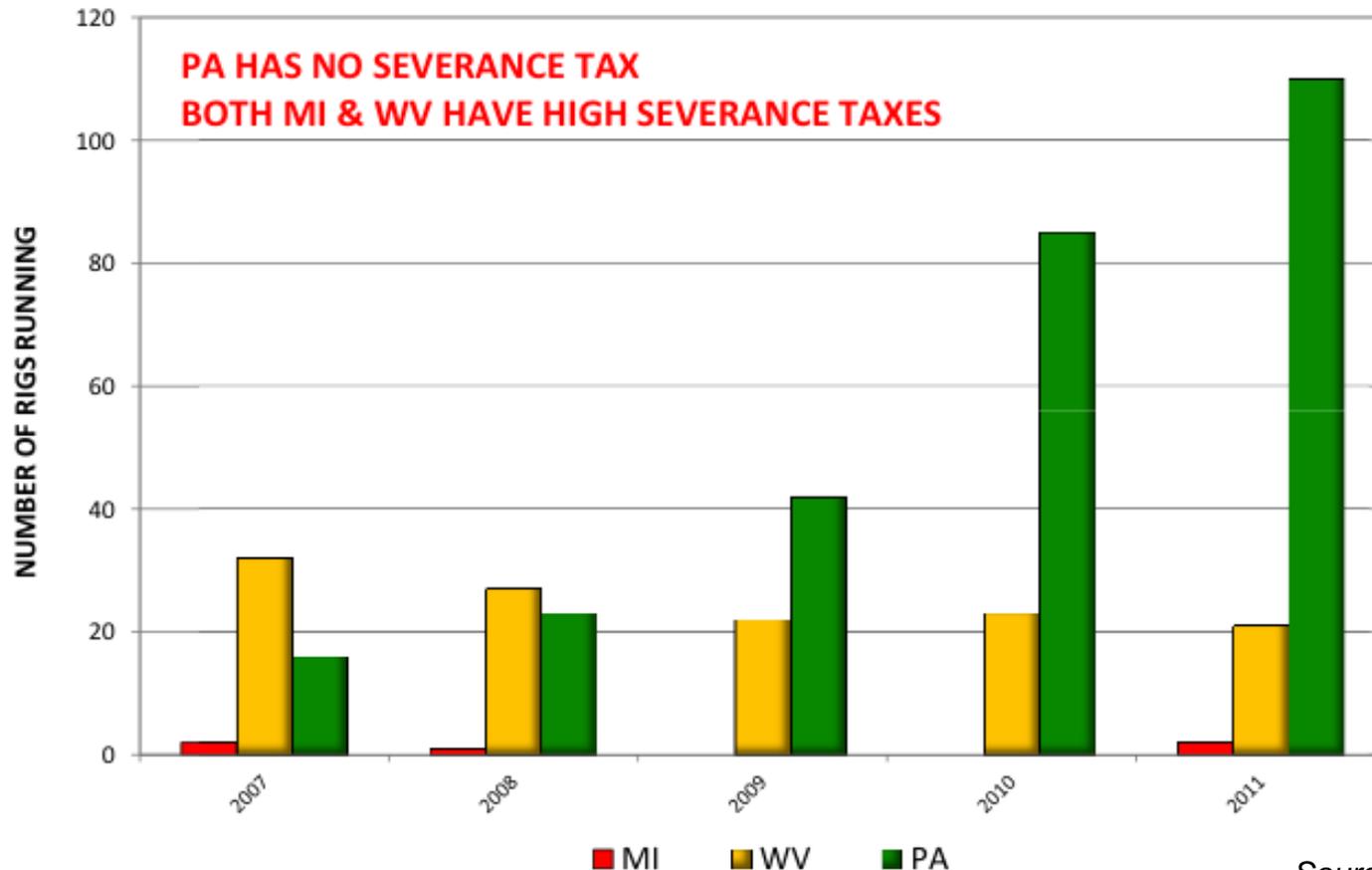
Ohio's Severance Tax Compared to Neighboring States



- In addition to a severance tax, Ohio's oil and gas producers pay income, commercial activity, sales and ad valorem (property) taxes.
- West Virginia and Michigan, which have higher severance-tax rates than Ohio, have both experienced decreased oil and gas drilling during the past five years. (Note: Both states have shale plays)
- Pennsylvania, which has no severance tax, has experienced a 600 percent increase in drilling activity during the same five years.

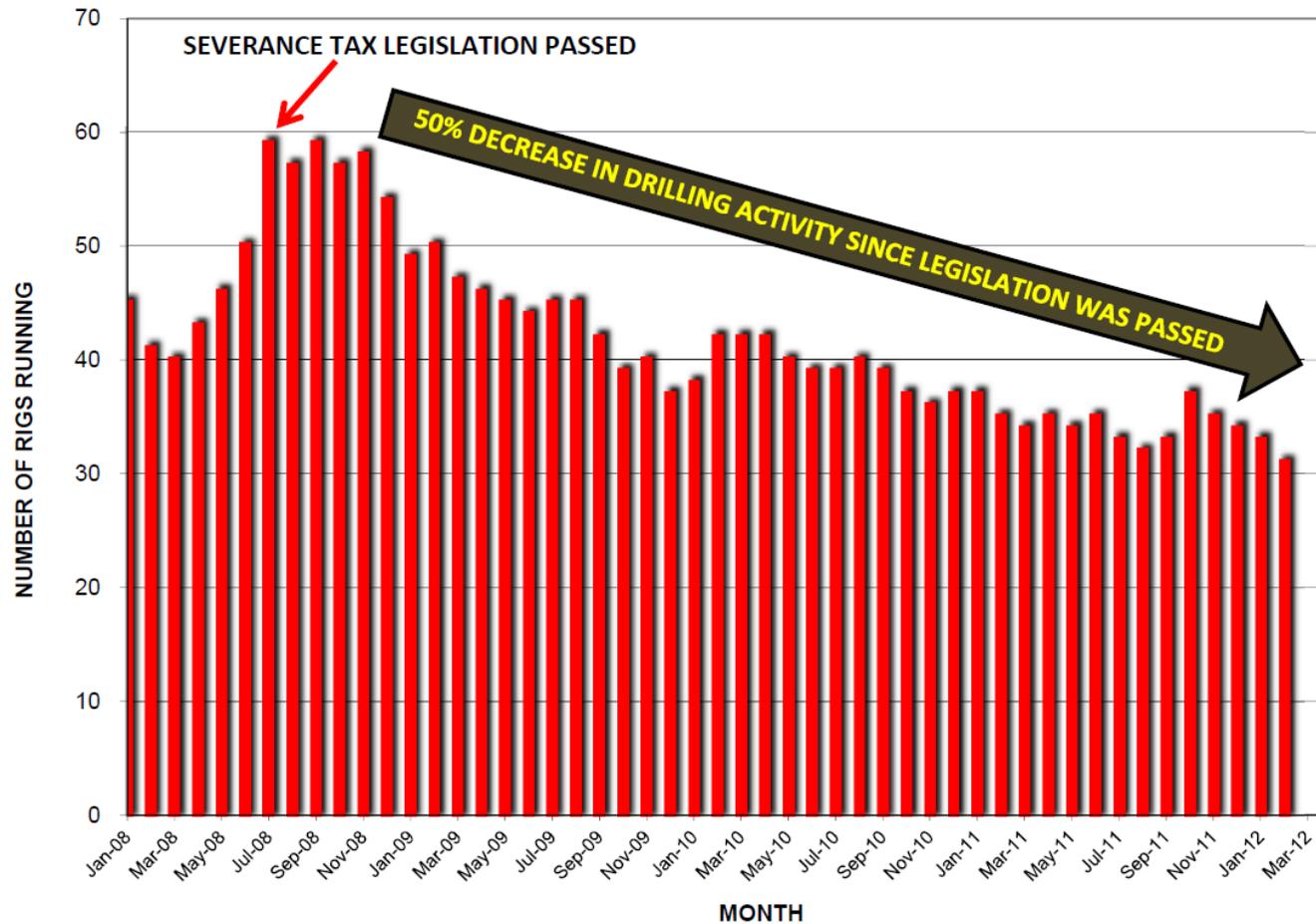
Correlation Between Drilling Activity and Severance Tax in MI, PA and WV

DRILLING ACTIVITY OVER THE LAST 5 YEARS MICHIGAN, WEST VIRGINIA, AND PENNSYLVANIA



Arkansas Drilling Activity Before and After Severance Tax

ARKANSAS DRILLING ACTIVITY



Texas Severance Tax



RAILROAD COMMISSION of TEXAS

Google™ Custom Search

Search

[Contact Us](#) | [Log In](#) | [FAQ's](#) | [Links](#)

[Home](#) > [Programs, Services & Assistance](#) > [Oil & Gas Programs](#) > **Texas Severance Tax Incentives: Past and Present**

[About](#) | [Compliance](#) | [Data](#) | [Doing Business](#) | [Education & Training](#) | [Safety](#) | [Public Awareness](#) | [Environmental](#) | [Forms, Maps & More](#) |

[Meetings, Hearings, Orders & Rules](#) | [Licenses & Permits](#) | [Programs](#) | [Industries](#) | [Kidsworld](#) | [Online License Payments](#) |

Texas Severance Tax Incentives: Past and Present

The reduction or elimination of state severance taxes provides an economic incentive to operators to undertake activities that produce oil and gas resources that otherwise might remain unrecovered. Texas recognized back in the late 1980's that incentives to increase the state's oil and gas production were extremely valuable. Economic studies have shown that for each dollar invested in the oil and gas industry and for each dollar of production, there is a positive effect on the state's economy.

Prior to the oil and gas bust that began in the mid-1980s, the oil and gas sector was among the strongest in the Texas economy. In the late-1980s and early 1990s, the poor health of the industry was reflected in the poor health of the state's economy. The incentive programs are targeted to help strengthen the economy by encouraging investment in exploration and production and to maximize responsible development and efficient recovery of the state's valuable natural resources.

By providing exemptions from or reductions of the severance tax on oil and gas production, these incentive programs in effect lower the cost of production. For marginal operations, in particular, these incentives might mean the difference between shutting in a well, keeping a well in production, or bringing a well back into production. For others, the incentives are factored into decisions of drilling or not drilling a well, initiating an enhanced recovery project, or servicing a well to increase its production.

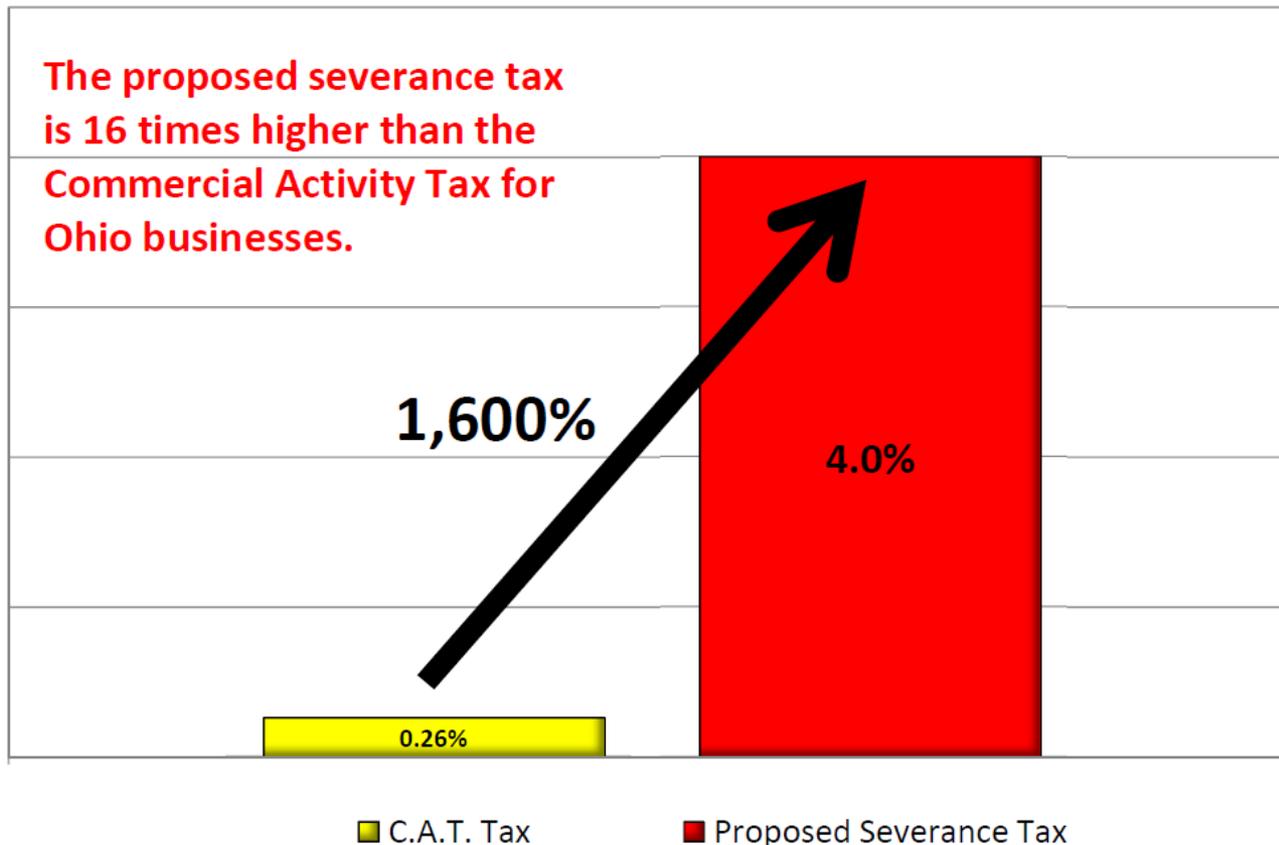
Texas incentive programs have been so successful that other states have used them as models. **Severance tax incentives continue to be needed in the future to encourage production and expansion of oil and gas operations, and sustain a vital segment of the state's economy.**

Source:

<http://www.rrc.state.tx.us/programs/og/severancetax.php>

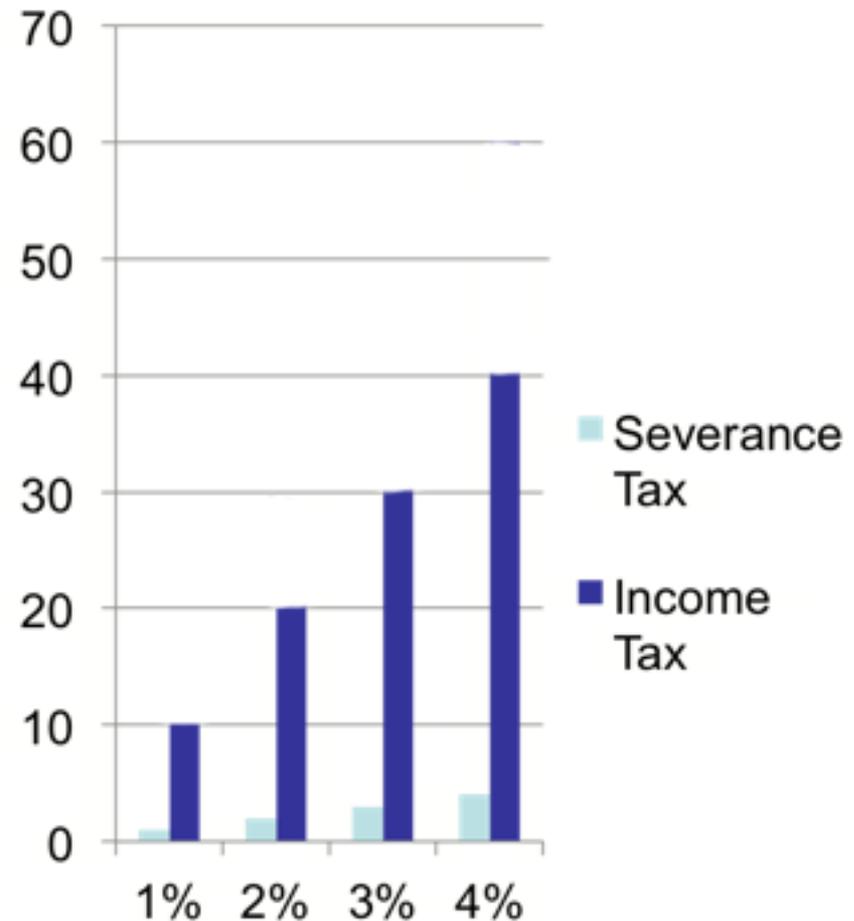
CAT vs. Proposed Severance Tax

COMMERCIAL ACTIVITY TAX VS. PROPOSED SEVERANCE TAX



Impact of Increased Severance Tax

- With an average profit margin of only 6-7% — an additional 1% tax on gross receipts (severance tax) = 10% income tax increase
- Severance tax is paid despite the profitability of a well
- Damage the state's competitive advantage, resulting in companies taking business to other states or abroad
- Reduction in drilling activity would result in increased energy costs, decreased tax revenue and loss of job opportunities for all Ohioans



Ohio can have an income-tax decrease without jeopardizing investment



The Kleinhenz study estimates tax revenue will be \$1.05 billion beginning in the year 2015 under the existing tax structure. The Kasich administration's proposed severance-tax increase might generate more than \$500 million at some future date.

Best Solution for Ohioans:

Use increased revenue generated under the existing tax system to fund income-tax cuts greater than those offered by the Kasich administration without risking Ohio's economic opportunity.