

Approved: March 28, 2007

Date

MINUTES OF THE HOUSE ENERGY AND UTILITIES COMMITTEE

The meeting was called to order by Chairman Carl Holmes at 9:00 A.M. on March 9, 2007 in Room 241-N of the Capitol.

All members were present.

Carl Holmes-excused

Vaughn Flora-excused

Judy Morrison-excused

Committee staff present:

Mary Galligan, Kansas Legislative Research

Dennis Hodgins, Kansas Legislative Research

Renaë Hansen, Committee Assistant

Conferees appearing before the committee:

Ed Cross, KIOGA

David Bleakley, EKOGA

Others attending:

Twelve including the attached list.

Briefing on:

The State of the Kansas Oil and Gas Industry

Ed Cross, Kansas Independent Oil and Gas Association (KIOGA), (Attachment 1), spoke to the committee on the state of the Kansas Oil and Gas Industry using a PowerPoint presentation. Attached to his testimony was information about KIOGA, Kansas oil and gas statistics, statistics nationwide of individual states oil and gas production, a short biography, and a statement on "American Oil and Gas Needed to Solve our Energy Dilemma."

David Bleakley, Eastern Kansas Oil and Gas Association, (EKOGA), (Attachment 2), spoke to the committee on the state of the Eastern Kansas Oil and Gas Industry. He noted some of the new technologies to extract oil and gas from coal and shale deposits in primarily four counties in the southeast part of Kansas. He commented that the industry went through a 20 year depression, coming out of it in about 2001. Nationwide 350,000 workers were lost to the industry during this downturn cycle of the oil and gas industry.

Questions were asked and comments made by Representatives: Rob Olson, Oletha Faust-Goudeau, Vern Swanson, Don Myers, Terry McLachlan, Tom Moxley, Margaret Long, and Annie Kuether.

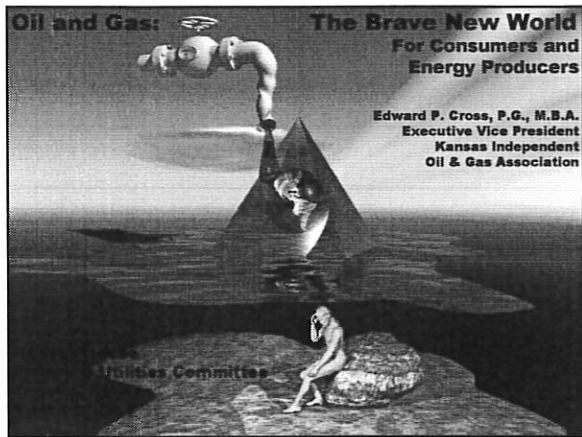
The next meeting is scheduled for March 13, 2007.

Meeting adjourned.

HOUSE ENERGY AND UTILITIES COMMITTEE GUEST LIST

DATE: March 9, 2007

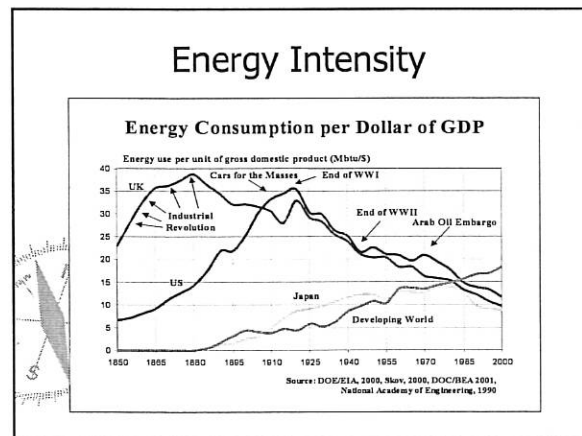
NAME	REPRESENTING
EQ Cross	Ks Independent Oil & Gas Association
GINA BOWMAN-MORRILL	COFFEEVILLE RESOURCES, LLC.
DAVID BLEAKLEY	EASTERN KS. OIL & GAS ASS.



Key Energy Issues

- ▶ Fossil Fuels provide over 80% of U.S. Energy Supply
- ▶ Oil & Natural Gas will provide 65% of Domestic Energy Needs for next 20-25 years
- ▶ Alternative Energy Investments will not alter U.S. Energy Mix for Decades
- ▶ Oil & Natural Gas Core Component

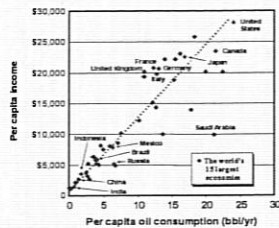
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ENERGY AND HOUSE UTILITIES
 DATE: 3/9/2007
 ATTACHMENT 1-1

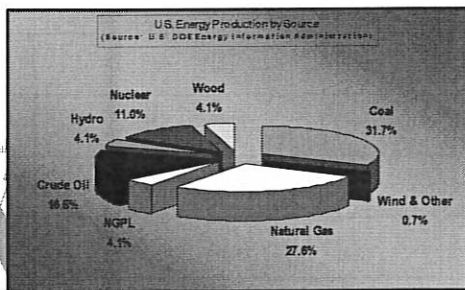
Defining National Quality

Energy Consumption as an Indicator of the Wealth of Nations



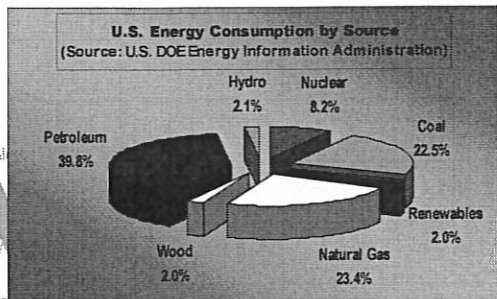
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U.S. Energy Issues



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U.S. Energy Issues



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New World Realities

► Price Volatility

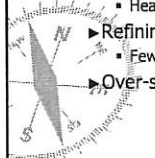
- China
 - Account for 20-25% of global energy demand growth over next 15 years
 - Aggressively pursuing import sources
 - Peru, Canada, Russia, Brazil, Iran, Cuba, Gulf of Mexico
 - Bid on Nationalism versus ROI
- India
 - Entered into energy agreement with China in December 2005
 - Built 18 refineries in past decade
 - Jamnagar Refinery adding 580,000 b/d new capacity to existing 680,000 b/d
 - Seeks to become regional supplier of refined products
 - Energy diplomacy part of their national foreign policy agenda
- Venezuela
 - Tying free market barrels (spot market barrels) into long-term contracts
 - New refining capacity in Asia and Middle East
 - Purposely trying to move oil away from U.S.



New World Realities

► Crude Oil Pricing Differential

- Canada
 - Number 1 Foreign Supplier of Crude Oil to U.S.
 - Quality Issues
 - Heavy/sour crude oil
 - Refining Capital Investments
 - Fewer end-products generated
 - Over-supplying local markets



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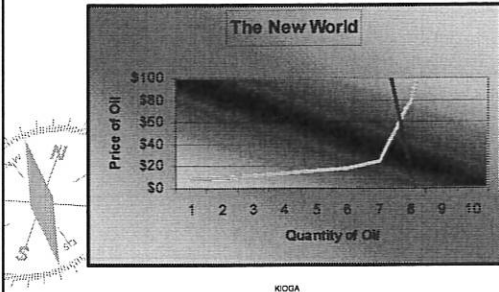
New World Realities

- OPEC & non-OPEC Nations have Reached Productive Capacities
- OPEC can Maintain Productive Capacity for 30-40 years
- Oil Prices will be Driven by Demand
 - EIA projects 1.6% Global Demand Growth through 2030
 - U.S. Demand Increasing 1.2% Annually through 2030
 - Chinese Oil Demand up 35% in 2005
- U.S. production of crude oil declining by 1.17% annually
 - Currently import over 12 mbd
 - Imports will grow to 17 mbd by 2030
 - Imports rise 200,000 b/d/year for next 24 years
- World Oil Demand Remains Inelastic
- World Oil Supply will become Increasingly Inelastic



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OPEC Supply Leverage Diminishing



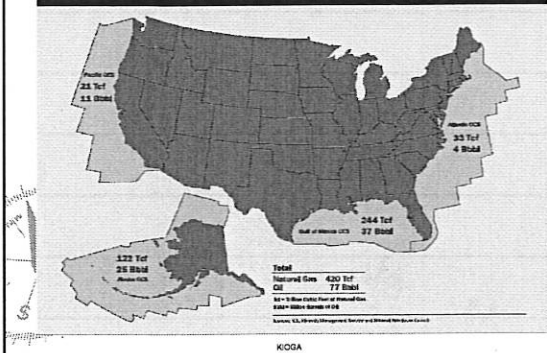
UNDEVELOPED U.S. OIL RESOURCES

Original, Developed and Future Domestic Oil Resources (Billion Barrels)

	Original Oil In-Place	Developed to Date*	Stranded Oil In-Place	Future Recovery*		
				Conventional Technology	EOR Technology	Total
I. Crude Oil						
1. Discovered	582	(208) ¹	374	-	110	110
▶ Light Oil	482	(189)	293	-	90 ⁴	90
▶ Heavy Oil	100	(19)	81	-	20 ⁴	20
2. Undiscovered	360 ²		360	119 ⁵	60 ⁶	179
3. Reserve Growth	210 ²		210	71 ⁵	40 ⁶	111
4. Residual Oil Zone	100 ³	**	100	-	20 ⁶	20
Oil Sands	80 ⁴	**	80	-	10 ⁶	10
Total	1,332	(208)	1,124	190	240	430

* Technically recoverable resources estimated to remain in place (billion barrels). ** May require additional permits.
¹ Includes 14 billion barrels of enhanced oil recovery.
² Estimated by Advanced Resources from USGS data, using historical recovery efficiency factors.
³ Estimated by Advanced Resources.
⁴ Advanced Resources data base.
⁵ USGS National Assessments.
⁶ Ten DOE/E O Basin Studies.
⁷ Estimated by Advanced Resources.
⁸ Estimated using recovery factors from ten DOE/E O Basin Studies.
⁹ Three DOE/E O Residual Oil Zone (ROZ) Basin Studies.
¹⁰ Estimated by Advanced Resources.

Undiscovered Technically Recoverable Resources on Federal OCS





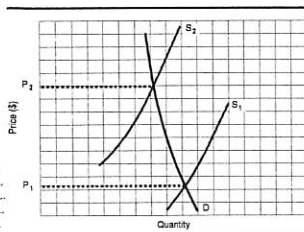
Crude Oil Market Structure

- ▶ Oligopoly
 - OPEC Cartel Collude to Influence Market Prices
- ▶ U.S. Producers are Perfect Competitors
 - Price-takers not Price-makers
 - Cost Structure Optimization Determines Profit



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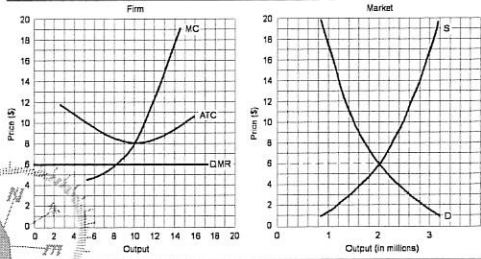
Withholding Supply to Raise Price



When supply is lowered from S₁ to S₂, price rises from P₁ to P₂

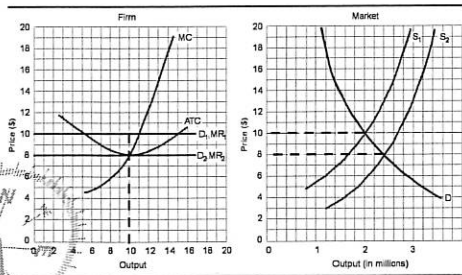
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The Perfect Competitor



Kansas Oil & Gas Producers are Perfect Competitors
Price-takers not price-makers. Internal cost structure determines profitability.
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Effect of Supply Constraints on Perfect Competitor



Kansas Oil & Gas Producers Strive to Improve Operating Efficiencies
 KIOGA

REPORT DATE 01/05/07
 CHECK DATE 01/05/2007

E C
 I D
 WICHITA, KS 67202-1774

PROD	PROPERTY	GROSS VOL	PROD. VAL	NET VALUE	GROSS VAL	PROD TAX	NET
MO/YR	NUMBER	UNIT PRICE	\$/DAY/OWNER		\$/MCF	\$/MCF	\$/MCF
*****OWNERS*****							
CHECK NO 57938							
MUGLER							
INTEREST:	0.1239014000	TYPE:	WORKING				
10/06	000000347	268.00	1523.73	1443.87	189.35	.00	176.76
		5.68	19.46		.00	11.99	
MORNER-GRIFFITH							
INTEREST:	0.1276640000	TYPE:	WORKING				
10/06	000000348	2427.50	14625.66	13970.21	1866.10	80.41	1782.66
		6.03	655.45		.00	2.83	
COX B							
INTEREST:	0.1020300000	TYPE:	WORKING				
11/06	000001265	831.00	5085.00	4861.25	510.99	22.16	437.60
		6.10	227				

COX D							
INTEREST:	0.1241488000	TYPE:	WORKING				
10/06	000001271	1022.00	6233				
		6.10	279				
CONNELLY							
INTEREST:	0.0091146000	TYPE:	ROYALT				
10/06	000001281	989.00	5117				
		5.17	230				
CORNF: IUS							
INTEREST:	0.2468970000	TYPE:	WORKING				
10/06	000001281	989.00	5117				
		5.17	230				
DAVIS A							
INTEREST:	0.0854492000	TYPE:	WORKING				
10/06	000001974	4803.00	70133.20	22077.41	2147.62	87.41	1939.12

BESSLER
 INTEREST: 0.1239014000 TYPE
 10/06 000000347 268.00 MCF/Month
 5.68 \$/MCF

What is Marginal Oil & Gas

- ▶ Lower edge of profitability
 - High Cost
 - Low Yield
- ▶ 10 barrels of oil per day or less
- ▶ 60 thousand cubic feet (Mcf) per day or less
- ▶ When plugged, resource often lost forever
- ▶ Need policies to enhance American production and reduce dependence on foreign supplies

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Who are Independents?

- ▶ Small Businesses
- ▶ Drill and produce crude oil and natural gas
- ▶ Not integrated
 - Sell crude oil and natural gas to purchasers
 - Price-takers not price-makers
 - Do not generate and market end-products

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Who are Independents?

- ▶ Independents drill 90% of wells in U.S.
- ▶ Independents provide 82% of America's natural gas supply
- ▶ Independents produce 68% of the crude oil in the U.S.
- ▶ America's Oil & Natural Gas Industry

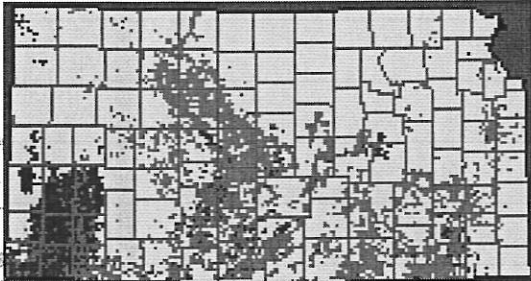
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Kansas Oil & Gas Industry Statistics

- ▶ First Oil Well = 1860
 - Miami County
- ▶ First Natural Gas Well = 1873
 - Montgomery County
- ▶ Current # of Oil Wells = 40,850
- ▶ Current # of Gas Wells = 18,639
- ▶ Current # of Injection Wells = 15,428
- ▶ Current Total # of Wells = 74,654
- ▶ Current # of Operators = 2,113
- ▶ E&P Cost up 64% over last 3 years
- ▶ Current Oil Production
 - 35.7 Million Barrels Annually
 - 97,800 Barrels per Day
 - Ranked 8th Among 31 Oil Producing States
- ▶ Current Natural Gas Production
 - 370 Billion Cubic Feet Annually
 - 1.01 Billion Cubic Feet per Day
 - Ranked 8th Among the 32 Natural Gas Producing States
- ▶ Drilling Permits Issued in 2006 = 5,544
 - Permits Issued in 2005 = 3,704
- ▶ Drilling Rate = 92%
- ▶ Number of Active Drilling Rigs = 110

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Kansas Oil & Gas Fields

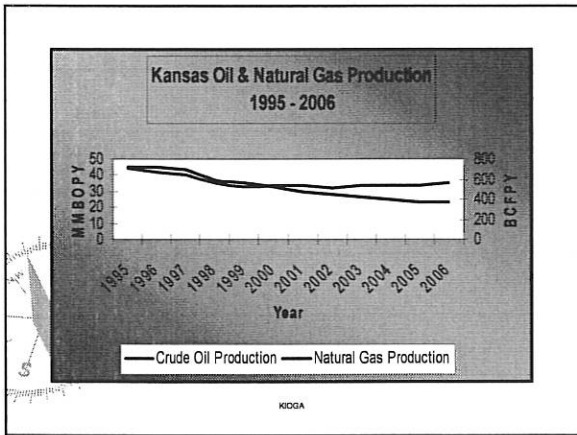


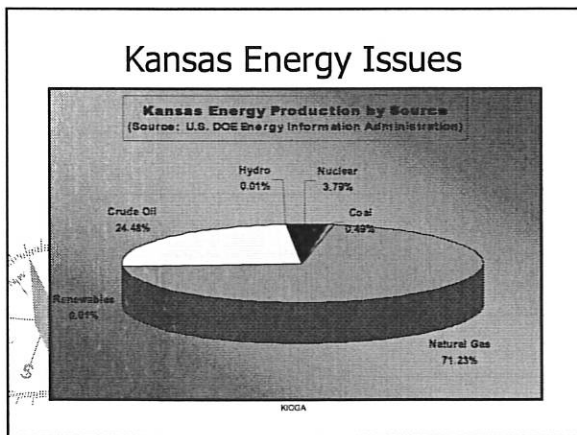
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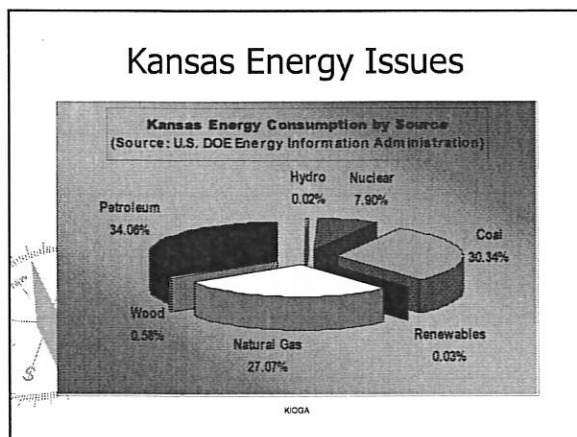
Kansas Oil & Gas Industry Statistics

- ▶ \$4.7 billion Industry
- ▶ 2nd Largest Industry in Kansas
- ▶ Average Daily Oil Well Production = 2.27 BOPD
 - 72% of Total Kansas Crude Oil Production from Marginal Wells
 - 94% of Total Kansas Oil Wells
- ▶ Average Daily Natural Gas Well Production = 56 Mcf/Day
 - 74% of Total Kansas Natural Gas Production from Marginal Wells
 - 81% of Total Kansas Natural Gas Wells

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Key Challenges facing the Kansas Oil & Gas Industry

- ▶ Need Policies to Enhance Access to Capital
 - Develop & Maintain Production
 - Raise Capital Through Production
 - Historically re-invest over 100% of cash flow
 - Each well is like a new business
 - ▶ Over \$1 billion invested in rural Kansas in 2006
- ▶ Need policies to cost-hedge against volatile crude oil and natural gas price swings
 - Monopsony
 - Budget marketing into economics and risk profiles
- ▶ Need policies to hedge against pricing differential

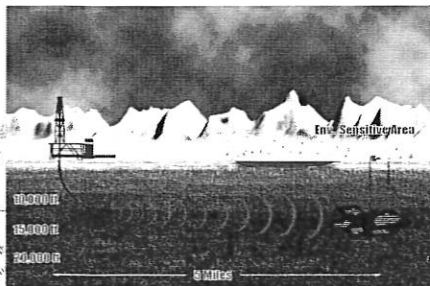
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Key Challenges facing the Kansas Oil & Gas Industry

- ▶ Need innovative strategies to effectively recruit and retain qualified talent
 - Reciprocal Trades Accreditation
 - Mutual Recognition of Professional Credentials
 - Basic Entry-Level Training
- ▶ Need to maintain oil & gas R&D funding
 - Industry developing
 - ▶ Modeled after successful programs in Oklahoma, Texas, and North Dakota
 - Responsible
 - ▶ MHT Applications
 - ▶ Wireless Well Surveillance
 - ▶ Carbon Dioxide (CO₂) Sequestration Potential in Kansas Hugoton Field, Central Kansas Uplift, CBM Production Efficiency
 - More state, county, & local tax dollars and local economic development

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MicroHole Technology (MHT) Applications *Enabling Extended-Reach Drilling and Environmental Access via Pad Drilling*



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Brave New World Conclusions

- ▶ No other nation produces as much oil and natural gas from marginal wells than the U.S.
 - Marginal wells produced NOT by major oil companies, but small independent companies
 - Marginal wells create jobs and economic growth in America
- ▶ Episode of higher more volatile prices than anything witnessed in past two decades.
- ▶ New price episode likely to last several years, or until cyclical or structural price trends are impacted by higher prices.

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A Brave New World

Our nation needs a comprehensive energy strategy that includes conservation, efficiency, alternatives, oil and natural gas. Out of absolute necessity, American oil and natural gas must provide us with a bridge to our alternative energy future.

Thank You

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Kansas Independent Oil & Gas Association (KIOGA)

Founded in 1937, the Kansas Independent Oil & Gas Association (KIOGA) is a nonprofit member organization representing oil and gas producers in Kansas, as well as allied service and supply companies. The purpose of KIOGA, as stated in the original articles of incorporation, is “. . . to improve the market for oil and gas produced in Kansas and to promote the welfare of the oil and gas industry in the State of Kansas.”

With over 1,400 members, KIOGA is the lead state and national advocate for independent oil and gas producers in Kansas. The challenges facing the Kansas oil and gas industry continue to increase, in both number and complexity. Because of the efforts of KIOGA members, voters and policymakers in Kansas are learning that the oil and gas industry is working for them, the economy, and the environment.

Kansas Oil & Gas Industry Statistics

The Kansas oil and gas industry is nearly a \$4.7 billion industry that puts tens of thousands of people to work each day and pumps hundreds of millions of dollars into the state's economy each year, money that helps support families, fund schools, and build roads. The Kansas oil and gas industry ranks just below agriculture as the most significant Kansas industry in terms of gross state product. Oil and gas is produced in 89 of Kansas' 105 counties and the average well depth is about 3,500 feet. The Kansas oil and gas industry does more than fuel Kansas and help the Kansas economy. The industry fuels America and makes significant positive contributions to our way of life.

Date First Oil Well Drilled: 1860 in Miami County

Date First Gas Well Drilled: 1873 in Montgomery County

Date of First Oil Production: 1889

Date of First Natural Gas Production: 1882

Current Number of Oil Wells: 40,850

Average daily oil well production = 2.27 bbls.

Current Number of Natural Gas Wells: 18,376

Average daily natural gas well production = 63 Mcf

Current Number of Class II Injection Wells: 15,428

Current Number of Licensed Operators (Oil &/or Gas Producers): 2,113

Current Oil Production Level: 35.7 million barrels of oil per year
97,800 barrels of oil per day
Ranked 8th among the 31 oil producing states

Current Natural Gas Production Level: 370 billion cubic feet per year
1.01 billion cubic feet per day
Ranked 8th among 32 gas producing states

Number of Permits to Drill in 2006: 5,554 (2005: 3,704, 2004: 3,596, 2003: 2,626, 2002: 1,716)

Drilling Rate (Percentage of drilling permits actually drilled): 92%

Current Number of Wells being Drilled: 110

2nd largest industry in Kansas in terms of Gross State Product
Employs approximately 7,700 Kansans in the production process
Employs an additional 17,200 Kansans in related services

Contributed over \$297 million in taxes during calendar year 2005

Contributed an estimated \$300 million in taxes during calendar year 2006

Severance tax collections increased nearly 156% from 1999 to 2006

Ad valorem tax collections increased nearly 136% from 1999 to 2005

Kansas crude oil production declining by a Compound Annual Decline Rate (CADR) of 1.44% over the last 10 years

State crude oil production up 5.3% in 2006

State crude oil production been steady to increasing for 7 years

Last period of state crude oil production increase was 1979-1985

Kansas natural gas production declining by a CADR of 6.4% over the last 10 years

Information About Oil

What is oil? Oil, commonly referred to as petroleum, is a naturally occurring substance made up a mixture of hydrogen and carbon compounds. Hydrocarbons occur as liquids, gases or solids.

How is petroleum created? Petroleum originated from marine plants and animals that decayed over time under ocean silt, sand or other materials. Millions of years, extreme pressure and heat transformed the biotic material into petroleum.

When was the first oil well discovered? In August of 1859, at Titusville, Pennsylvania, Col. Edwin Drake drilled the first oil well. The discovery at 69.5 feet in the Oil Creek formation was significant in that it demonstrated the practicality in drilling. Oil was first discovered in Kansas in 1860 in Miami County.

Are we running out of oil? Fossil fuels supply almost 95% of the world's energy and nearly 86% of the U.S. energy, even though hydro, nuclear and geothermal energy use has tripled since 1970. According to API statistics, world proven oil reserves are estimated at well over one trillion barrels, enough to last almost fifty years at current rates of consumption.

What about the environment? The oil and natural gas industry spends more than \$10 billion annually to protect the environment worldwide—as much as the top 300 oil and natural gas companies earn in profits and more than the entire industry spends searching for oil and natural gas in the United States. Kansas' oil and natural gas industry has traditionally produced oil and natural gas to help meet the energy needs of society. Today's committed Kansas oil and natural gas producer continues to exercise their traditional service while still meeting their responsibility to protect the environment.

How is petroleum used? Oil and natural gas are an integral part of our society. Much of our high standard of living can be traced to the use of petroleum. Today, an estimated 6,000 products are produced from petroleum. Among these products are the many types of transportation fuels, industrial fuels and chemicals, residential fuels, lubricants, waxes, asphalt, fertilizers, pesticides, photographic film, plastics and medicine.

Gasoline Taxes

A federal tax of **18.4** cents per gallon is collected in all states in addition to any state or local taxes on gasoline sales.

State	State & Local Tax (Cents/Gallon)	State	State & Local Tax (Cents/Gallon)
Alabama	21	Montana	27.8
Alaska	8	Nebraska	25.5
Arizona	19	Nevada	33.2
Arkansas	21.5	New Hampshire	20.6
California	32.4	New Jersey	14.5
Colorado	22	New Mexico	18
Connecticut	30.1	New York	32.95
Delaware	23	North Carolina	24.55
DC	20	North Dakota	21
Florida	30.2	Ohio	24
Georgia	12.7	Oklahoma	17
Hawaii	36.3	Oregon	24
Idaho	25	Pennsylvania	27.3
Illinois	26.7	Rhode Island	31
Indiana	23.3	South Carolina	16.75
Iowa	21.30	South Dakota	24
Kansas	25	Tennessee	21.4
Kentucky	21.4	Texas	20
Louisiana	20	Utah	24.5
Maine	26.1	Vermont	20
Maryland	23.5	Virginia	18.1
Massachusetts	23.5	Washington	28
Michigan	27.2	West Virginia	25.35
Minnesota	22	Wisconsin	31.5
Mississippi	18.8	Wyoming	14
Missouri	17	Federal Tax	18.4

Comparative Product Prices versus Crude Oil

The following is a list of average prices of commonly purchased goods in the U.S.

Product	Price	Normal Size	Volume Ounces	Price \$/Gallon	Price \$/Barrel
Crude Oil – Kansas Common	\$58.00	1 Barrel	5376	\$1.38	\$58.00
Regular Unleaded Gas (pre tax)	\$2.35	1 Gallon	128	\$2.35	\$98.95
Regular Unleaded Gas (after tax)	\$2.79	1 Gallon	128	\$2.79	\$117.18
Coca Cola	\$1.19	2 Liter	67.6	\$2.25	\$94.50
Poland Spring Water	\$1.39	1.5 Liter	50.7	\$2.63	\$110.46
Milk – 2%	\$2.59	1 Gallon	128	\$2.59	\$108.78
Evian (Bottled Water)	\$1.79	1.5 Liter	50.7	\$4.52	\$189.80
Orange Juice	\$2.69	.5 Gallon	64	\$5.38	\$225.96
Snapple	\$1.50	1 Quart	32	\$6.00	\$252.00
Perrier (Bottled Water)	\$2.79	4 Pack	44	\$8.12	\$340.89
Budweiser	\$4.79	6 Pack	72	\$8.52	\$357.65
Crisco Cooking Oil	\$2.19	1 Quart	32	\$8.76	\$367.92
Lemon Oil	\$3.49	48 Ounces	48	\$9.31	\$390.88
Scope Mouthwash	\$3.69	24 Ounces	24	\$19.68	\$826.56
Sunflower Oil	\$2.89	16 Ounces	16	\$23.12	\$971.04
Ben & Jerry's Ice Cream	\$3.29	16	16	\$26.31	\$1,105.44
Olive Oil	\$10.99	1.5 Liter	50.7	\$27.75	\$1,165.33
Pinot Grigio (Italian White Wine)	\$12.99	1.5 Liter	50.7	\$32.80	\$1,377.40
Head & Shoulders Shampoo	\$4.59	15.2 Ounces	15.2	\$38.65	\$1,623.41
Real Maple Syrup	\$4.59	12 Ounces	12	\$48.96	\$2,056.32
Sesame Oil	\$5.99	12.7 Ounces	12.7	\$60.37	\$2,535.61
Tabasco Sauce	\$0.99	2 Ounces	2	\$63.36	\$2,661.12
Jack Daniels	\$19.49	.75 Liter	25.3	\$98.61	\$4,141.43
Tanning Oil	\$4.99	5 Ounces	5	\$127.74	\$5,365.25
Remy Martin Champagne	\$36.99	.75 Liter	25.3	\$187.14	\$7,860.01
Visine	\$5.99	1 Ounce	1	\$766.72	\$32,202.24
Flonase (Prescription Nasal Spray)	\$64.59	16 Grams	.56	\$14,763.45	\$620,064.00

Edward P. Cross Biographical Sketch:

Edward Cross is executive vice president of the Kansas Independent Oil & Gas Association (KIOGA) where he oversees all KIOGA business activities and programs. KIOGA is a 1,400 member trade association representing the Kansas independent oil and gas industry and is the lead state and national advocate for Kansas independent oil and gas producers. Cross actively represents the interests of the Kansas independent oil and gas industry before state and federal government officials and decision-makers. He is also active at the national level by serving on the Communications Committee and Public Education Committee of the Independent Petroleum Association of America (IPAA). The IPAA is a national oil and gas trade association headquartered in Washington, D.C. Cross serves as Secretary/Treasurer of the LIAISON Committee of Cooperating Oil and Gas Associations, a national organization of state oil and gas association executives. In addition, Cross serves as Chairman of the Public Outreach Committee of the Interstate Oil & Gas Compact Commission (IOGCC). The IOGCC is a national organization representing the Governors of 37 oil and gas producing states. Cross has published 8 peer-reviewed papers on economic, environmental, and energy education issues facing the independent oil and gas industry. Cross is a licensed professional geologist and certified school business official holding a B.S. in Geology and an M.B.A. from Southern Illinois University. In January 2007, Cross appeared before and briefed the U.S. Senate Committee on Finance in Washington, D.C. on marginal oil and gas production issues in Kansas.



**Voice of the Kansas
Independent Petroleum Industry**

Crude Oil and Natural Gas Production State Rankings

Source: Independent Petroleum Association of America 2005 Report

Crude Oil Production

State	mmbopy
1. Texas	407
2. Alaska	356
3. California	249
4. Louisiana	90
5. New Mexico	67
6. Oklahoma	65
7. Wyoming	52
8. Kansas	36
9. North Dakota	29
10. Colorado	21
11. Montana	19
12. Mississippi	17
13. Utah	13
14. Illinois	12
15. Alabama	8
16. Arkansas	7
17. Michigan	7
18. Ohio	6
19. Florida	3.3
20. Nebraska	2.8
21. Kentucky	2.5
22. Pennsylvania	2.3
23. Indiana	1.9
24. South Dakota	1.2
25. West Virginia	1.2
26. Nevada	0.5
27. Tennessee	0.4
28. New York	0.2
29. Missouri	0.1
30. Arizona	0.05
31. Virginia	0.02

Natural Gas Production

State	bcfpy
1. Texas	5,244
2. New Mexico	1,604
3. Oklahoma	1,558
4. Wyoming	1,539
5. Louisiana	1,350
6. Colorado	1,011
7. Alaska	410
8. Kansas	368
9. Alabama	346
10. California	337
11. Utah	268
12. Michigan	237
13. West Virginia	188
14. Arkansas	170
15. Pennsylvania	160
16. Mississippi	134
17. Ohio	94
18. Kentucky	88
19. Montana	86
20. Virginia	81
21. North Dakota	58
22. New York	35
23. Florida	3.1
24. Tennessee	1.8
25. Indiana	1.5
26. Nebraska	1.4
27. South Dakota	1.1
28. Oregon	0.7
29. Arizona	0.4
30. Illinois	0.2
31. Maryland	0.05
32. Nevada	0.001

American Oil & Gas Needed to Solve our Energy Dilemma

By Edward P. Cross, Executive Vice President
Kansas Independent Oil & Gas Association

The demand for energy in the U.S. is ever growing. Record-high energy costs impact our economy, national security and everyday lives. We need to find more and different sources of energy and we need to be efficient and conserve. But, we cannot ignore the essential role that American oil and natural gas must play.

American energy companies are currently restricted by the federal government in the areas where the greatest resources could be found. Ninety percent of the deep sea is off-limits, including 300 trillion cubic feet of natural gas and 50 billion barrels of crude oil. This alone could replace current levels of oil imports from the Persian Gulf for the next 59 years.

As it stands, 65% of our nation's oil supply comes from foreign and often unstable countries. We often hear that we should continue to import oil instead of pursuing our own reserves in areas currently under moratoria, like areas off the east coast, west coast, eastern Gulf of Mexico, Rocky Mountain areas, and the Alaska National Wildlife Refuge. Many Americans may not realize the full costs of oil imports. Many foreign oil producers are state-owned companies that use the money we pay them for their oil to promote anti-American ideas.

Wouldn't it be prudent to reduce our exposure to Middle East instability, civil unrest in Nigeria, political uncertainty in Venezuela, and accidents or natural disasters anywhere in the world? It is a shame that policies deny Americans the opportunity to produce their own natural resources, further increasing our foreign dependency and vulnerability.

Those opposed to tapping America's resources argue that energy exploration poses a significant environmental risk often citing a 1969 spill. But let's jump ahead 38 years to the present where technology has revolutionized exploration and production. Today, enhanced safety technologies along with strict adherence to government regulations ensured that virtually no oil or natural gas was spilled as a result of the devastating Hurricanes, Katrina and Rita, in 2005.

When all other countries including those with the most rigorous environmental restrictions allow their resources to be developed, we stand alone in forbidding the development of ours.

To reduce our dependence on Middle Eastern oil and other foreign energy sources, America must embrace all forms of American energy for the future – wind, solar, biomass, nuclear and fossil fuels. Today, fossil fuels provide over 80% of U.S. energy supply and oil and natural gas will supply two-thirds of our nation's energy needs 20-25 years in the future. The fact remains, that for the foreseeable future, oil and natural gas will be our main fuel source.

Fortunately, U.S. oil and natural gas companies are diverse and are ready to get to work to find new energy supplies here at home. Smaller, independent oil and natural gas companies already develop 90% of our nation's wells and produce 82% of American natural gas and 68% of the crude oil. And there's a lot more to be safely found.

Our nation needs a comprehensive energy strategy that includes conservation, efficiency, alternatives, oil and natural gas. Out of absolute necessity, American oil and natural gas production must provide us with a bridge to our alternative energy future. Ignoring the problems of today while we search for the perfect tomorrow is a sure formula for economic disaster. A "Just Say No" energy policy that extends to all viable energy supply solutions, including nuclear energy, hydroelectric projects, coal, oil, and natural gas is simply unworkable. Americans deserve more than talk about what won't work. This country needs energy solutions and it should begin with freedom of American companies to develop American natural resources.

STATE OF THE EASTERN KANSAS OIL AND GAS INDUSTRY

Overall Welfare of the Industry

Gas

Coal Bed Methane Gas (CBM) –

Conventional Gas –

Gas Price –

Expenses –

Oil

Conventional Oil –

Oil Price –

Expenses –

General Benefits to the Local economy, County and State

Local –

County –

State –

County & State Government and their Impact on the Industry

County –

State –

Legislature –

Agencies of the State that deal with the oil and gas industry

Kansas Corporation Commission (Oil and Gas Division) –

Kansas Department of Health and Environment (KDHE) –

Kansas Fish and Wildlife –

Kansas Geological Survey (KGS) –

Groundwater Management –

Kansas Department of Revenue (KDOR) –

ENERGY AND HOUSE UTILITIES

DATE: 3/9/2007

ATTACHMENT 2-1

Future Energy Sources

The state of Kansas and the country will need every source of Energy available to meet future demand.

Oil –

Gas –

Nuclear –

Coal –

Wind Energy –

Solar –

Ethanol –

Biofuel –

Hydrogen –