SERVING SOUTHEASTERN OHIO & NORTHERN WEST VIRGINIA'S OIL & GAS INDUSTRY

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WV Aboveground Storage Tank Conference 2019

- The 2019 WV Tanks Conference hosted by West Virginia Oil Marketers &
- Grocers Association (OMEGA), Environmental Committee, as well as other
- 3 co-hosts (WV Coal Association, Independent Oil and Gas Association of
- WV, WV Business and Industry Council), WV Oil and Natural Gas Asso-
- 5 ciation, and the WV Contractors Association) was held November 14, 2019
- in Charleston, WV.
- 14 The conference presenters, WVDEP, JD2 Environmental, SLS Land & En-
- ergy Development, and Woodford Oil Company were joined by Governor Justice and WVDEP Cabinet Secretary Caperton in presenting and/or par-
- ticipating in the panel discussion throughout the day.
- **23** Topics included:
- **WV AST & UST Program Updates** presented by WV DEP staff Ruth Porter, Tanks Program Manager and Michael Boyer, Environmental Inspector
- 26 Specialist.

AST Lessons Learned - SLS presented by Adam Wilson, Smith Land & Energy Development.

(Continued to page 12)

SAVE THE DATE

OHIO 811 SESSION ON CALL BEFORE YOU DIG

Speakers: Roger Lipscomb – President/Executive Director of Ohio811 Tuesday, January 28, 2020

8:00 am to 4:00 pm at the GWB Complex 1 639 St. Rt. 821 Marietta, OH 45750 A complete agenda will be emailed at a later date.

Please RSVP to the SOOGA office to help us with accommodations. 740-374-3203 or mail@sooga.org

Have a Very Merry Christmas and Happy New Year !!

THE CROW'S NEST

As we wind down another year, I look back at what the year has brought to our industry. Oil and gas prices have not cooperated with us, but they are not a surprise and we will deal with them going forward because that is what we do as an industry.

Effective October 17, 2019 the well transfer fee was eliminated. Effective January 1, 2020 the minimum severance tax will be eliminated (up to \$60 per well, per year). Although these provisions do not generate revenue, they do save on the cost side of the business.

The tax seminar on December 4 was well attended. There were 22 attendees. We hope everyone attending was able to pull something useful from the seminar that will assist them in their business. We are happy to assist accounting professionals to maintain continuing education credits.

I spoke to you in the previous Crow's Nest that we were working to set up a session with Ohio811 so they could explain steps they have taken and are taking to streamline the one call process and reduce the number of calls oil and gas operators receive on their facilities. We have a session scheduled for Tuesday, January 28, 2020. It will be held in a room in GWB Complex 1. Roger Lipscomb, President & Executive Director of Ohio811 will be present with members of his staff to give a comprehensive review of their work.

Tentative details about time and place for the Ohio811 session are in this issue of the newsletter. Please take time to become familiar with the information and mark your calendar. For those members who have not yet mapped their facilities with Ohio811, Roger and his staff are planning to make themselves available to anyone who wants to do so that day. As we finalize the agenda, we will be sending out email blasts to serve as a reminder and for your RSVP.

This is a great opportunity to learn how one call tickets are generated and how your company can be more efficient. This will hopefully reduce the number of one call tickets your company has to address.

I hope all of you and your families have a safe and blessed Christmas season and a prosperous New Year.

Keep your head down and keep digging.

President Don Huck





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2019 NEW MEMBERS SOOGA would like to welcome the following new members:

TODD SHELL

Allied Industry
Huntington Drum Company, Inc.
127 Ridgewood Rd.
Huntington, WV 25701
304-544-5501

BRADLEY LOEBER

Contractor
Mammoth Energy Inc.
320 Fairview Lane
Marietta, OH 45750
740-350-1340

BEN COGSWELL

Allied Industry
FL Tanks
1111 Gilman Ave.
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Roger Heldman

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Matt Lupardus

HG Energy, LLC 304-420-1127

Linda O'Brien

O'Brien's Safety Services 740-350-4228

Southeastern Ohio Oil and Gas Association Gas Committee Report December, 2019

PRICING

Prices December 9, 2019

NYMEX Settle - December -2019	\$2.47
One Year NYMEX strip (Jan., 2020 - Dec. 2020)	\$2.27
Summer NYMEX strip for 2020 (AprOctober, 2020)	\$2.24
Winter NYMEX strip – 2019 (Jan., 2019 – Mar. 2020)	\$2.23
TCO Index Posting – December, 2019	\$2.13
DTI Index Posting - December, 2019	\$2.05

December 5, 2019 Storage Report:

Working gas in underground storage, Lower 48 states Summary text

					Historical Comparisons			
	Stocks billion cubic feet (Bef)		Year ago (11/29/18)		5-year average (2014-18)			
Region	11/29/19	11/22/19	net change	implied flow	Bef	% change	Bcf	% change
East	891	894	-3	-3	756	17.9	857	4.0
Midwest	1,040	1,052	-12	+12	917	13.4	1,035	0.5
Mountain	200	204	-4	-4-	168	19.0	206	-2,9
Pacific	286	293	-7	-7	253	13.0	320	-10,6
South Central	1,174	1,166	8	8	906	29.6	1,183	-0.8
Salt	316	303	13	13	262	20.6	343	-7.9
Nonsalt	858	863	-5	-5	644	33.2	839	2.3
Total	3,591	3,610	-19	-19	3,000	19.7	3,600	-0.3

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2020 SOOGA Tentative Calendar of Events

2020 Spring Membership Meeting April 23, 2020 Marietta Shrine Club Marietta, OH 45750

> 2020 Spring Golf May 15, 2020 Lakeside Golf Course Beverly, OH

2020 Spring Clay Shoot June 12, 2020 Hilltop Sports Whipple, OH 45788

2020 SOOGA's 1st Industry Appreciation Boat Ride July 31, 2020 Valley Gem Marietta, OH 45750

2020 Fall Golf Outing August 21, 2020 Golf Club of West Virginia Waverly, WV 26184

2020 Annual Trade Show September 24, 2020 Broughton's Community Building Marietta, OH 45750

> 2020 Fall Clay Shoot October 16, 2020 Hilltop Sports Whipple, OH 45750

2020 Fall Gun Giveaway November 1st - 30th

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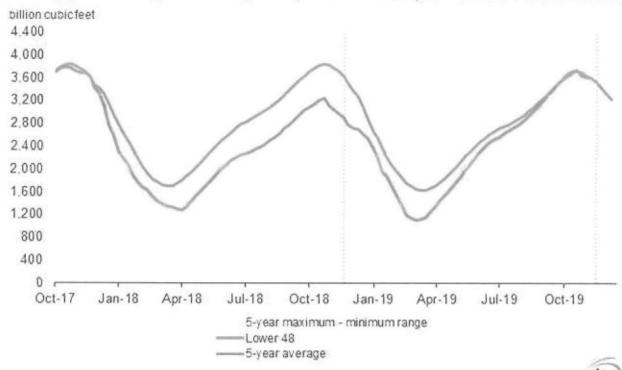
Working gas in underground storage, Lower 48 states Summary text

Totals-may not equal sum of components because of independent rounding.

Summary

Working gas in storage was 3,591 Bcf as of Friday, November 29, 2019, according to EIA estimates. This represents a net decrease of 19 Bcf from the previous week. Stocks were 591 Bcf higher than last year at this time and 9 Bcf below the five-year average of 3,600 Bcf. At 3,591 Bcf, total working gas is within the five-year historical range.

Working gas in underground storage compared with the 5-year maximum and minimum



Source: U.S. Energy Information Administration

era

Natural Gas

Prices/Supply/Demand:

Northeast prices decline. At the Algonquin Citygate, which serves Boston-area consumers, the price went down 85¢ from \$4.63/MMBtu last Wednesday to a low of \$3.78/MMBtu yesterday. At the Transcontinental Pipeline Zone 6 trading point for New York City, the price decreased 4¢ from \$2.40/MMBtu last Wednesday to a low of \$2.36/MMBtu yesterday.

2020 Board of Trustee Election

Anyone interested in running for the SOOGA Board of Trustees, please email Billie at mail@sooga.org. The list of 2020 candidates will be printed in the January/February issue of the Insider. The election will be held at the Spring Membership meeting on Thursday, April 23, 2020. For additional information please call the SOOGA office at 740-374-3203.



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(continued from page 6)

The Tennessee Zone 4 Marcellus spot price was constant week over week at \$1.79/MMBtu. The price at Dominion South in southwest Pennsylvania fell 5¢ from \$1.85/MMBtu last Wednesday to \$1.80/MMBtu yesterday.

Supply is flat. According to data from IHS Markit, the average total supply of natural gas Supply rises with increased imports from Canada. According to data from IHS Markit, the average total supply of natural gas rose by 1% compared with the previous report week. Dry natural gas production remained constant week over week. Average net imports from Canada increased by 20% from last week.

Demand rises across all sectors. Total U.S. consumption of natural gas rose by 7% compared with the previous report week, according to data from IHS Markit. Natural gas consumed for power generation climbed by 6% week over week. In the residential and commercial sectors, consumption increased by 13%. Industrial sector consumption stayed constant, averaging 24.4 Bcf/d. Natural gas exports to Mexico increased 2%.

U.S. LNG exports decrease week over week. Ten liquefied natural gas (LNG) vessels (five from Sabine Pass; two from Corpus Christi; and one each from Cove Point, Cameron, and Freeport) with a combined LNG-carrying capacity of 36 Bcf departed the United States between November 28 and December 4, according to shipping data compiled by Bloomberg. Four vessels (one each at Sabine Pass, Corpus Christi, Cameron, and Freeport) were loading on Wednesday.

Ohio's Utica Shale 2019 Second Quarter Production

During the second quarter of 2019, Ohio's horizontal shale wells produced 5,813,755 barrels of oil and 614,218,362 Mcf (614 billion cubic feet) of natural gas, according to the figures released today by the Ohio Department of Natural Resources (ODNR).

Compared to a year ago, oil production increased by 29.54% and natural gas production showed a 10.81% increase over the second quarter of 2018.

	2018 Quarter 2 (Shale)	2019 Quarter 2 (Shale)	Percentage Change
Barrels of oil	4,488,104 bbl	5,813,755 bbl	29.54%
Mcf of natural gas	554,306,916 Mcf	614,218,362 Mcf	10.81%

The ODNR quarterly report lists 2,365 horizontal shale wells, 2,317 of which reported oil and natural gas production during the quarter. Of the wells reporting oil and natural gas results:

There are currently 3,217 Utica Permits, and 2,740 Utica shale wells drilled, with 11 rigs running.



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Obituaries



Ricky Don Creighton, 55, of New Matamoras, Ohio passed away peacefully at his home on Thursday October 31, 2019.

Rick was born on March 2, 1964, a son of the late Donald and Josephine Harris Creighton.

He was preceded in death by his brother Michael E. Creighton. Rick spent his career working in the oil fields. He enjoyed hunting and fishing.

He is survived by Karen Amos, his loving partner of 22 years. A son Andrew Creighton, two step daughters Jessica McKnight (Toad), Heather Cline (Greg) and two grandchildren. He loved spending time with Fisher, Gracie and Maverick.

Rick was a member of Southeastern Oil and Gas Association since 2010.



Henry E. Leimkuehler III, 49, of Marietta, OH, passed away on Friday, November 1, 2019, at his residence. He was born on April 24, 1970 in Washington, Pa to Henry "Hank" Leimkuehler, Jr.

Henry was the owner/operator of Smokin' Pigs Ash BBQ and was an avid fisherman, Steelers and

Pirates sports fan and loved karaoke.

He is survived by his father, Henry "Hank" Leimkuehler, Jr (Doreen); his step mother, Jane Walters (special mom); his aunt, Patty King and special friends Barb Hughes, J.R. Herrman and Rob Powers.

He was preceded in death by his grandparents, Henry Leimkuehler Sr and Georgette (Mammoo). A visitation for Henry will be held from 5-8 PM on Monday, November 4, 2019 at Hadley Funeral Home Reno Chapel, 1021 Pike St., Marietta, OH 45750.

In lieu of flowers, memorial donations can be made to the James Cancer Center, 1480 West Lane Avenue, Columbus, OH 43221 or at cancer.osu.edu.

Henry had served his famous BBQ dinners for our SOOGA Clay Shoots for the last five years.



David M. Hawkins, 80, of Lower Salem, Ohio, finished his earthly travels on November 8, 2019 at Marietta Memorial Hospital. He was born November 20, 1938 in Cleveland, Ohio to Virgil J. and Eleanor Meredith Hawkins.

David spent his early childhood in Richfield, Ohio, attended high school in Oklahoma, Alabama and graduated from The American School of Lima in Lima, Peru in 1956. He attended college at the U.S. Merchant Marine Academy in Kings Point, New York, and served as an Engineering Cadet in the Merchant Marines. David completed college at Ball State in Muncie, Indiana with a B.S. in Industrial Arts Education. Upon graduation in 1965 he accepted a commission in the U.S. Navy and served five years active duty in southeast Asia.

In 1970 he and his wife, Rebecca, returned to the United States and settled in Lower Salem. David taught industrial arts at Marietta Junior High School for seventeen years, worked in strip mine reclamation and manure nutrient management for the Soil and Water Conservation District of Monroe, Washington and Noble Counties. After his retirement in 1994 he devoted his energy to tree farming and outdoor education for Monroe and Washington County school children.

Throughout his life he served on many agriculture and conservation boards. David traveled the world working in missions through Compassion International and World Gospel Mission. His work there supported many Christian schools and churches.

David is survived by his son Eben and daughter-inlaw Sheri, son Albert and daughter-in-law Kate and a daughter, Laura; grandchildren, Cody, Brady, Ella, Elias, Sabine and Rebecca.

In addition to his parents, he was preceded in death by his first wife Rebecca, second wife Ruth and two brothers, Johnathan and Thomas.

David was a member of Southeastern Ohio Oil and Gas Association since 2010.

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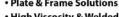
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Continued from page 1

Steel Tank Institute Updates, Nationwide Tank Compliance presented by David Piercy,

V.P. JD2 Environmental, Inc.

The presentations from the conference are available for download at:

https://greenbrierenv.sharefile.com/d-sf514438d0ff4329a

The WV Manufacturers Association has also provided a document titled

"West Virginia Aboveground Storage tanks Laws and Regulations" prepared by Spillman Thomas & Battle, PLLC, which is also available for download from the link above.

The conference sponsors included R.T. Rogers Oil Company, WV Oil & Natural Gas Association of WV, Contractors Association of WV, and SLS Land & Energy Development.



Have a Very Merry Christmas and Happy New Year!!

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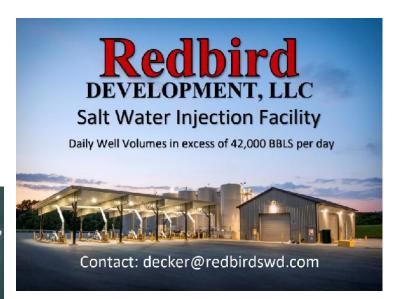
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GAS PRICING 2019

NOVEMBER 2019

NYMEX Settlement: \$2.597 Inside FERC/DTI: \$2.020 (Basis: -\$0.577) Inside FERC/TCO:\$2.220 (Basis: -\$0.377)

DECEMBER 2019

NYMEX Settlement: \$2.470 Inside FERC/DTI: \$2.050 (Basis: -\$0.420) Inside FERC/TCO:\$2.130 (Basis: -\$0.340)

OIL PRICING 2019

ERGON OIL PURCHASING WEST VIRGINIA MONTHLY AVERAGE

October Ohio Tier 1: \$53.13
October Ohio Tier 2: \$50.13
October Ohio Tier 3: \$48.13
October West Virginia Tier 1: \$53.13
October West Virginia Tier 2: \$50.13

October West Virginia Tier 3: \$48.13 October Marcellus/Utica Condensate: \$40.13 October Marcellus/Utica Medium: \$53.13

October Marcellus/Utica Light: \$48.13

November Ohio Tier 1: \$56.0847 November Ohio Tier 2: \$53.0847 November Ohio Tier 3: \$51.0847 November West Virginia Tier 1: \$56.0847

November West Virginia Tier 2: \$53.0847 November West Virginia Tier 3: \$51.0847 November Marcellus/Utica Condensate: \$43.0847 November Marcellus/Utica Medium: \$56.0847

November Marcellus/Utica Light: \$51.0847

Tier 1 - 150 + net barrels of crude oil No more than 2.5% BS&W (if the BS&W is over 2.5% it will then qualify for Tier 2 pricing)

(If trucking is able to load 160 net barrels of oil and other Tier 1 criteria are met, Ergon Oil Purchasing will waive the BS&W limit)

Tier 2 - 60-149.99 net barrels of crude oil Two Stops within 10 miles

Tier 3 - 30-59.99 net barrels of crude oil

internet at:

Please contact Ergon at 1-800-278-3364 for clarification on split load pricing.

The Marcellus/Utica Shale produced crude oil will be purchased based on the monthly average for the following postings:

38.0-49.9 API Gravity—Marcellus/Utica Medium crude oil 50.0-59.9 API Gravity—Marcellus/Utica Light crude oil 60.0+ API Gravity—Marcellus/Utica Condensate (formerly posted as Appalachian Sweet Light-ALS). Other parameters will be evaluated on a farm by farm basis. You can now find EOP WVA Crude oil Price Bulletin on the

www.ergon.com

OIL PRICING 2019

AMERICAN REFINING GROUP AVERAGE

10/21 to 10/31 Group 1 OH: \$54.48

Group 2 OH: \$51.48

Group 3 OH: \$49.48

11/1 to 11/10 Group 1 OH: \$55.76

Group 2 OH: \$52.76

Group 3 OH: \$50.76

11/11 to 11/20 Group 1 OH: \$56.01

Group 2 OH: \$53.01

Group 3 OH: \$51.01

11/21 to 11/30 Group 1 OH: \$56.49

Group 2 OH: \$53.49

Group 3 OH: \$51.49

12/1 to 12/10 Group 1 OH: \$57.00

Group 2 OH: \$54.00

Group 3 OH: \$52.00

ARG GROUP PRICING CATEGORIES AND DEFINITIONS FOR PENNSYLVANIA GRADE CRUDE OIL (LEGACY)

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Group 2 (OH/PA/NY) - 60.0-149.99 net barrels from a single location

Group 3 (OH/PA/NY) - 30-59.9 net barrels from a single location

For questions relating to ARG Group Pricing or Utica / Marcellus Shale pricing, please contact: Bill Murray, VP-Crude Supply & Logistics- 330-649-2832; bmurray@amref.com

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2020 SOOGA MEMBERSHIP DRIVE

NOW IS THE TIME TO HELP YOUR ASSOCIATION WITH OUR ANNUAL MEMBERSHIP DRIVE. WITH EACH NEW MEMBER, HELP US TOWARD OUR GOAL TO STRENGTHEN SOOGA AND CREATE GREATER OPPORTUNITIES TO HELP ONE ANOTHER.

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ANY PERSON WHO SIGNS UP A NEW MEMBER IN 2020 WILL BE ENTERED IN A DRAWING FOR \$100.00. TO GET CREDIT YOUR NAME MUST BE LISTED AS REFERRED BY ON MEMBERSHIP APPLICATION.

ALSO ANYONE THAT JOINS DURING THE 2020 MEMBERSHIP DRIVE WILL BE ENTERED IN A DRAWING TO WIN A "FREE "MEMBERSHIP FOR 2021.

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Silica in the Fracking Industry: Exposure, Hazards & Respiratory Protection

Article by: Safety Resources Company of Ohio

Let's take a look at silica and airborne exposure during hydraulic fracturing. What is silica dust? What are the health hazards associated with silica? How can overexposures be prevented?

Crystalline Silica: a common mineral found in the earth's crust. It occurs primarily as quartz and is a major component of the sand, clay and stone materials used to make everyday products such as concrete, brick and glass. Respirable crystalline silica is the portion of crystalline silica that is small enough to enter the gas-exchange regions of the lungs if inhaled.

NIOSH has identified seven primary sources of silica dust exposure during fracturing operations:

- Dust ejected from thief hatches (access ports) on top of the sand movers during refilling operations while the machines are running (hot loading).
- Dust ejected & pulsed through open side fill ports on the sand movers during refilling operations
- Dust generated by on-site vehicle traffic.
- Dust released from the transfer belt under the sand movers.
- Dust created as sand drops into, or is agitated in, the blender hopper and on transfer belts.
- Dust released from operations of transfer belts between the sand mover and the blender; and
- Dust released from the top of the end of the sand transfer belt (dragon's tail) on sand movers.

Health Hazards of Silica: Hydraulic fracturing sand contains up to 99% silica. Breathing silica can cause silicosis, a lung disease where lung tissue around trapped silica particles reacts, causing inflammation and scarring and reducing the lungs' ability to take in oxygen. Workers with daily exposures are at greater risk of developing silicosis. Silica can also cause lung cancer and has been linked to other diseases, such as tuberculosis, chronic obstructive pulmonary disease, and kidney and autoimmune disease.

Protecting Workers from Exposure: Under the Occupational Safety and Health Act of 1970, employers are responsible for providing safe and healthful working conditions for their workers. Employers must determine which jobs expose workers to silica and take actions to control overexposures and protect workers. A combination of engineering controls, work practices, protective equipment, and product substitution where feasible, along with worker training, is needed to protect workers who are exposed to silica during hydraulic fracturing operations.

Collect respirable dust samples to determine if any jobs expose workers to silica above permissible exposure limits (PEL). If air samples show levels above OSHA's PEL, employers are required to take actions to reduce worker exposures.

- **Monitor** the air to determine worker exposures to silica.
- Control dust exposures by improving existing engineering controls and safe work practices.
- **Provide** a medical surveillance program to workers who are exposed at or above the action level for 30 days or more per year.

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Engineering Controls and Work Practices provide the best protection for workers and must be implemented first before respiratory protection is used. Employers must provide workers with respirators when engineering controls and work practices are not feasible, are being implemented, or when they do not reduce silica exposures below OSHA's PEL.Whenever respirators are used, the employer must have a respiratory protection program that meets OSHA's Respiratory Protection Standards requirements. This program must include proper respirator selection, fit testing, medical evaluations, and training. If respirators are provided, they must be selected based on the actual exposure level identified. The employer must establish and implement a written exposure control plan that identifies tasks that could involve exposure and methods used to protect workers.

Hydraulic fracking operations in the oil and gas industry must implement engineering controls to limit exposures to current PEL by June 23, 2020

Provide training & information to workers about the hazards of silica.

- Prepare and implement a written hazard communication program.
- Provide training and information on the hazards of silica.
- Provide workers access to Safety Data Sheets (SDSs) on silica containing substances they may be exposed to during hydraulic fracturing operations.

Employers are responsible for the proper protection & training of their employees against silica exposure and both workers and employers need to be aware of the hazard that silica dust presents.

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Surveys shows support for Ohio's natural gas, oil industry

Article taken from The Daily Jeff, 12/18/19

GRANVILLE—Eight out of 10 Ohio voters support natural gas and oil development and say the industry is important to their community, and nearly two thirds of Southeastern Ohio voters oppose banning development in the Ohio Valley, according to newly released public polling sponsored by the Ohio Oil and Gas Energy Education Program.

A survey of 400 registered voters in eight southeastern counties found strong approval across all age groups and political affiliations for Utica and Marcellus Shale development. Six in ten voters support continued development in and around the Wayne National Forest, according to the poll conducted by FTI Consulting.

The results align with those from a statewide OOGEEP-commissioned poll conducted earlier this year by Saperstein Associates, which found six out of 10 voters have positive impressions of the natural gas and oil industry.

The statewide poll of 2,102 voters found at least 80 percent of Ohioans agree that the natural gas and oil industry creates local jobs, eases poverty, saves consumers money, drives local manufacturing and provides local workers with education and training.

"Ohioans understand how safe and environmentally responsible shale development is creating local, well-paying jobs and generating new opportunities for manufacturing and economic growth," said OOGEEP Executive Director Rhonda Reda. "We heard that overwhelmingly both statewide and in the southeast region, where 83 percent of respondents agree the natural gas and oil industry is producing energy in cleaner and more efficient ways."

Efforts to ban shale development have little favor in southeastern Ohio, where 63 percent oppose such a policy. In the Wayne National Forest, 64 percent of voters support allowing private landowners to continue leasing land and mineral rights for natural gas and oil production.

"The strong bipartisan support we see for this critical industry is a testament to the environmental, economic and community benefits we're seeing across the state and broader region," Reda said. "Voters recognize that shale development creates significant cost-savings for consumers and small businesses while employing 200,000 Ohioans, and strengthens our national security as well as communities across the state."

Additional findings from the FTI survey which had a margin of error of \pm 4.9 percent, indicated 88 percent say the natural gas and oil industry is important to their community.

The survey showed 78 percent support natural gas and oil development and 64 percent oppose a ban on natural gas and oil development in the Ohio Valley. Sixty-three percent support continuing natural gas and oil development in and around the Wayne National Forest.

Finally, 47 percent of voters surveyed say natural gas and oil development will play the biggest role in the future of the state's economy — 30 points higher than the next closest industry.

The poll, conducted in September, surveyed registered voters in Athens, Belmont, Guernsey, Harrison, Jefferson, Monroe, Noble, and Washington counties.

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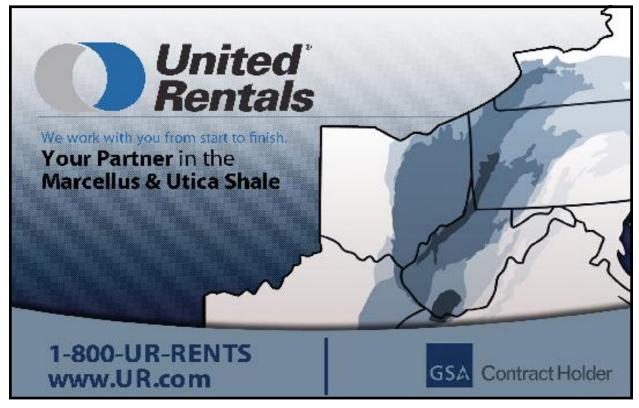
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Educating opponents of fracing

Viewpoint Dr. Robert W. Chase, Marietta Times Weekend, Dec 7-8,02019

The growing public concern over climate change has cast much needed attention on efforts to curtail carbon dioxide emissions from fossil-fuel power plants. But in the name of protecting the environment there are calls from two prominent Democratic presidential candidates to curtail hydraulic fracturing or fracing (pronounced fracking), a necessary procedure used in the completion of horizontal wells drilled to produce oil and natural gas. That misguided approach would ultimately result in increased atmospheric concentrations of greenhouse-gas emissions due to the need to burn more coal to generate electricity, potentially damaging the very environment we seek to protect.

Those who disparage the use of fracing ignore that America's greenhouse emissions are 13 percent lower today than in 2005, the year the shale revolution was launched. The sharp decline in emissions occurred even with an economy that is a third larger.

This advance isn't the result of government regulations or the generous subsidies and mandates available to renewable energy sources; rather it has been the shift from coal to natural gas in electricity production that has helped reduce greenhouse emission in the U.S.

Due to fracking, we use far more natural gas today than at any other time in our history, and the basic attributes of gas remain the same—low cost and great abundance. In terms of price, gas sets the competitive benchmark for new "base-load" power generation. And the economic value of gas is likely to rise as electricity demand grows and gas continues to replace coal.

America's natural gas boom is also helping to reduce

greenhouse emissions abroad. Exports of U.S. liquefied natural gas approached 800 billion cubic feet last year from virtually zero a few years ago, enabling other countries to use less coal. With LNG capacity expected to double by the end of this year, export volumes will continue to grow significantly. By 2024, the U.S. is projected to become the world's largest exporter of LNG.

Cheap natural gas, made available by fracing, has made the U.S. the world leader in carbon mitigation. The market implications are enormous. The United States will play a major role in the growing international market for natural gas that will be needed to meet global goals for reducing greenhouse emissions. With this added benefit, America becomes a wealthier society. Fracing strengthens the economy, creates jobs, and provides business opportunities for American factories. The oil-and-gas industry brought \$48 billion worth of manufactured products in 2018, the U.S. Bureau of Economic Analysis says.

Despite all of this, two Presidential candidates-Elizabeth Warren and Bernie Sanders - say that, if elected, they will push for a national ban on fracing. And they want more of the nation's energy to come from renewable sources such as wind and solar.

But by saying no to natural gas doesn't automatically lead to the substitution of wind and solar power-it may lead to the continued operation of coal plants. The problem with renewables is that they operate when the weather allows, not when grid demand calls for it. Together wind and solar power supply only 7 percent of the nation's electricity and 4 percent globally, greatly overshadowed by fossil fuels at 85 percent.

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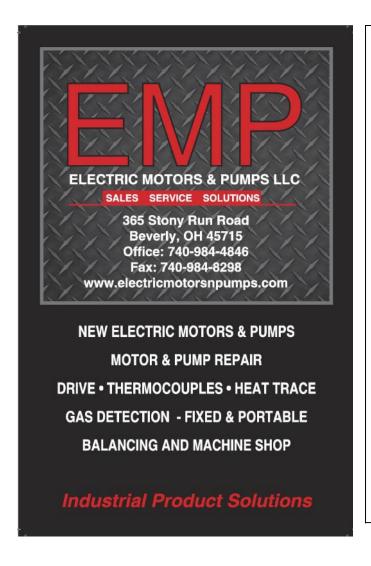
Fracing opponents often act as if it has no economic or environmental benefits. Consider what we would lose if fracing were banned. Because there is no technology available for large- scale electricity storage, gas turbines must provide backup power for solar energy on days when the sun isn't shining and on days when the wind isn't blowing.

Without the boom in domestic gas production, our nation's progress in reducing oil imports would be lost.

Since 2005, the level of oil imports has dropped from

60.3 percent to 12 percent today and long lines at gasoline stations are a distant memory.

What's more, turning over the U.S. economy to fracing opponents may expose the country to even greater climate harms. U.S. emissions have fallen to mid-1990s levels because of the growth in gas, which burns cleaner than coal. That would have never happened without fracing. Opponents of fracing ought to realize that neither solar energy nor wind energy is going to do the trick, at least not soon enough to make a difference in the battle to prevent climate change.





MCF Recognizes Community Philanthropists

Article from Marietta Times 11/19/19

Marietta, OH – This past Tuesday, Marietta Community Foundation, surrounded by donors and friends, celebrated another year of accomplishments at their annual event.

A part of the evening's program included announcing the award winners for Outstanding Philanthropist of the Year, for both an individual/family and a business, and the Innovation in Grant-Making Award.

The first award, Outstanding Philanthropist of the Year (individual/family), went to <u>Carl and Judy Heinrich</u>. The Heinrich's created a family charitable fund in 2015 and has since donated to several organizations across Washington County. Most recently, they funded a state-of-the-art drilling simulator for Marietta College's Petroleum Engineering Program.



Carl and Judy Heinrich, Outstanding Philanthropists of the Year (Individual)



Gene Huck, Vice President of Artex Oil Company, Outstanding Philanthropist of the Year (Business), and Heather Allender

The business recognized as this year's Outstanding Philanthropist of the Year was Artex Oil Company. There to ac-

cept the award was Vice President of Artex Oil, Gene Huck.

Artex has donated time, expertise, and funds to various organizations throughout Washington County and the surrounding area," said Heather Allender, President & CEO of the Foundation, during her award announcement. "From education initiatives, athletic programs, first responders, and local art projects, Artex is a proven philanthropic leader."

The nonprofit project, MC2 took home the Innovation in Grant-Making Award. There to receive the award was Dr. Tasha Werry,

Executive Director of Building Bridges to Careers, and Dr. Dave Jeffery, professor at Marietta College.

MC2 began in 2009 when Dr. Werry was teaching elementary school students about Paleontology. After coming into contact with Dr. Jeffery, who teaches Paleontology and had access to the actual fossils her students were learning about, the two began to work together and bring young students into the higher education sphere. The program partners elementary science teachers with Marietta College's professors to create lessons and experiments for students across four local elementary schools.

Marietta Community Foundation works to improve Washington County through grants and initiatives. If you are interested in learning more about their efforts, please contact Heather Allender at 740-373-3286 or heather@mcfohio.org.



Dr. David Jeffery & Dr. Tasha Werry, Innovation in Grant-Making, and Heather Allender

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