

The PIOGA Press

The monthly newsletter of the
Pennsylvania Independent Oil & Gas Association
October 2019 • Issue 114

Action on Conventional Oil and Gas Act and other legislation of interest

Since the General Assembly returned in September from its summer recess, there has been action on a number of bills of interest to the industry, including legislation creating a separate oil and gas statute for the conventional industry. However, the short number of session days remaining in the year adds an additional layer of uncertainty to the always-unpredictable legislative process.

The Senate Environmental Resources and Energy Committee on September 24 voted 8-3 to advance **Senate Bill 790**, legislation establishing the Conventional Oil and Gas Act (COGA). The bill was then referred to the Appropriations Committee.

This year's version of COGA is being pushed by Senate President Pro Tempore Joe Scarnati. While PIOGA is hopeful that with the Senate leader's support we may finally see an oil and gas statute just for the conventional side of our industry, the Department of Environmental Protection continues to signal its opposi-

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DEP Secretary Patrick McDonnell looks on as Governor Tom Wolf signs the RGGI executive order.

Wolf announces intention to join regional cap-and-trade program

Governor Tom Wolf announced on October 4 that the state will forge ahead with joining the Regional Greenhouse Gas Initiative, despite push-back from Republicans who question whether Wolf can enter the multi-state emission-capping program without legislative approval.

Speaking at a Capitol press conference, Wolf outlined his directive to the Pennsylvania Department of Environmental Protection to join the cap-and-trade program, also known as RGGI, which requires participating states to cap CO2 emissions at energy production plants.

Under the program, power plants must buy carbon

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allowances that equal the amount of carbon they emit, providing states with revenue to invest in energy efficiency programs and renewable energy projects.

Wolf, joined by DEP Secretary Patrick McDonnell, stressed the seriousness that changes in the climate pose to Pennsylvania residents, as well as the consequences of not addressing them.

"If we want a Pennsylvania that is habitable for our children, for our grandchildren, where temperatures aren't in the 90s — as they were yesterday — in October, and flooding that doesn't destroy homes and business over and over again, we need to get serious right now about addressing the climate crisis," Wolf said.

Wolf said the cap-and-trade program could help the state reach his administration's emission-reduction goals, which seek to reduce greenhouse gas emissions by 25 percent of 2005 levels by 2025 and 50 percent of 2005 levels by 2050.

"While setting goals and targets is absolutely important, we cannot delay any longer from taking action," Wolf said, adding that the program "has proven to be good for businesses, to be good for consumers and be good for the environment."

The executive order signed by Wolf on October 3 specifically directs DEP to create a rulemaking package "to abate, control, or limit carbon dioxide emissions from fossil-fuel-fired electric power generators" in a manner that aligns with RGGI guidelines. The rulemaking package must be developed and submitted to the state's Environmental Quality Board by July 31, 2020.

RGGI states have reduced power plant emissions within the region by 45 percent since 2005, the organization says, with some independent researchers adding that the revenue from carbon allowance auctions has allowed participating states to offset increases in energy rates that get passed onto consumers.

"On the one hand, the inclusion of the cost of CO₂ allowances in wholesale prices tends to increase wholesale electricity prices in the RGGI region at the beginning of the 2015-2017 period," said a team of researchers from the Analysis Group, whose report was largely optimistic on RGGI's effects. "But these near-term impacts are more than offset during these years and beyond, because the states invest a substantial amount of the RGGI auction proceeds on [energy efficiency] programs that reduce overall electricity consumption and on [renewable energy] projects that reduce the use of higher-priced power plants."

Others, however, have questioned the overall impacts the cap-and-trade program does and will have.

A report released by the nonpartisan Congressional Research Service found that the effects RGGI has had in lowering global greenhouse gas emissions has been "arguably negligible," but goes on to suggest that RGGI does "stimulate action in other states or at the federal level."

But while Democrats point to lower emissions and economic investments stemming from new revenue as

What the governor's RGGI executive order requires:

1. Rulemaking. By no later than July 31, 2020, develop and present to the Pennsylvania Environmental Quality Board a proposed rulemaking package to abate, control or limit carbon dioxide emissions from fossil-fuel-fired electric power generators, which rulemaking package shall be authorized by the Act of January 8, 1960 (1959 P.L. 2119, No. 787), known as the Air Pollution Control Act. The proposed rulemaking shall:

- a. Include a robust public outreach effort working with the business community, energy producers, energy suppliers, organized labor, environmental groups, and others to ensure that the development and implementation of this program results in reduced emissions, economic gains, and consumer savings;
- b. Establish a carbon dioxide budget consistent in stringency to that established in the RGGI participating states;
- c. Provide for the annual or more frequent auction of carbon dioxide emissions allowances through a market-based mechanism; and
- d. Be sufficiently consistent with the RGGI Model Rule such that allowances may be traded with holders of allowances from other states.

2. Interaction with Regional Transmission Organization. The DEP, working with the Public Utility Commission, shall engage with PJM Interconnection to promote the integration of this program in a manner that preserves orderly and competitive economic dispatch within PJM and minimizes emissions leakage.

clear reasons to join the nine-state program, a fight likely lies ahead between Wolf and a Republican-controlled legislature that questions his ability to unilaterally join the cap-and-trade cooperative.

House Republicans were quick to characterize the move as a "go-it-alone" approach that leaves out the voice of the legislative branch.

House Majority Leader Bryan Cutler (R-Lancaster) told *The PLS Reporter* that he has concerns relating to separation of powers and the voice that the legislative branch will play in RGGI negotiations.

"While I do believe that the law does state—the clean air law specifically that was passed in the 1960s—does say that negotiations, discussions, etc. may go forward, it does require legislative submission," Cutler said.

Senator Gene Yaw (R-Lycoming), who heads the Senate Environmental Resources and Energy Committee, echoed Cutler's concerns.

"For a step of this magnitude, which affects consumers, business, industry and public policy—the legislature, who represents the citizens of this state, must be involved in the dialogue on joining RGGI," Yaw said. "It cannot be a unilateral decision."

The Wolf Administration points to both the federal Clean Air Act and the state's Air Pollution Control Act as statutes that grant Wolf the power to begin entering the program. The latter says that DEP may "[c]ooperate with the appropriate agencies of the United States or of

other states or any interstate agencies with respect to the control, prevention, abatement and reduction of air pollution, and where appropriate formulate interstate air pollution control compacts or agreements for the submission thereof to the General Assembly.”

But McDonnell acknowledged that without legislative approval, the act may limit how allowance revenues can be spent by the state.

“I think we have authorities under Air Pollution Control Act to establish the program, so that’s the direction we’re moving,” McDonnell said, noting that legislative approval is crucial to spending allowance revenues in the most effective manner.

“I think when you look at what some of the other states have done, there’s elements of that that would clearly require authority if we wanted to use the revenues in those ways, in terms of consumer benefit programs and things like that,” he added.

Wolf agreed.

“This is only going to work if we all figure out how to work together,” he said. “This is going to be a collective effort on the part of everybody here in Pennsylvania, certainly of everybody here in this building, and that’s the way I’m looking at it.”

—Justin Sweitzer
The PLS Reporter

House GOP urges Wolf not to go it alone

House Republican leaders issued the following statement on October 3 in response to Governor Wolf’s executive order on Pennsylvania joining the Regional Greenhouse Gas Initiative:

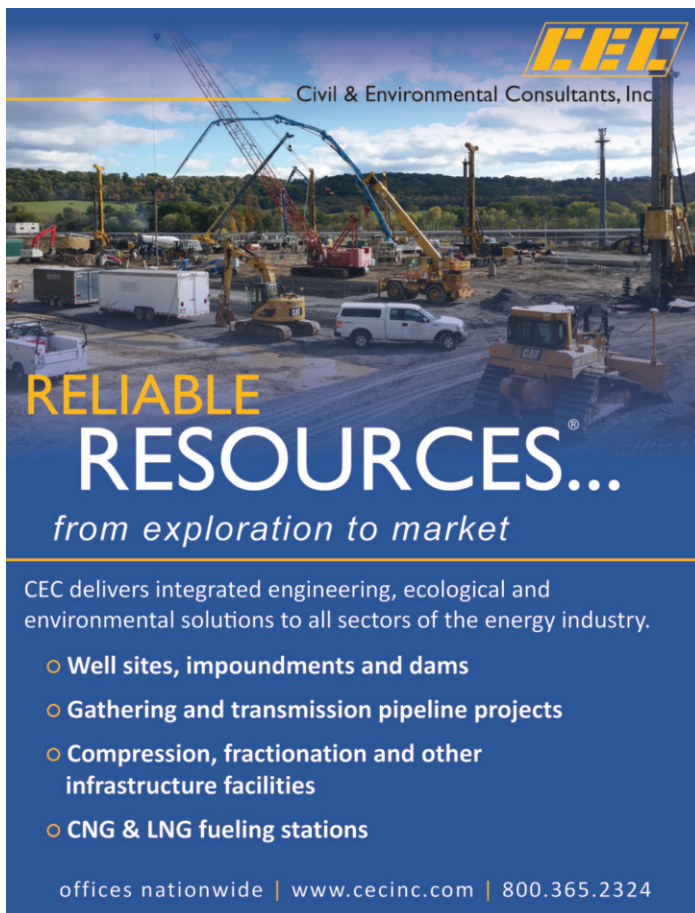
“The regulation of carbon dioxide presents significant impacts on our economy, the environment and on the bottom line for Pennsylvania families.

“The people of our Commonwealth, as represented and heard through the General Assembly, have the absolute right to review, approve or disapprove any plan that has such far reaching implications. This move calls for another new energy fee on Pennsylvanians. Taxpayers will pay more every time they flip a switch, make breakfast or charge their phone.

“We strongly disagree with Governor Wolf’s continued practice of go-it-alone approaches that are unhelpful in working cooperatively to move our Commonwealth forward in a way that best represents the interests of all Pennsylvanians.

“Our state is not an autocracy, and one-sided decisions as significant as this leave out the important voices of Pennsylvania workers, communities and families whose livelihood is built upon important sectors of our energy economy. Pennsylvania’s energy sector is currently reducing greenhouse gas emissions, by as much as 30 percent in recent years according to some estimates, and the industry is doing this without burdensome regulations.

“We believe the executive branch cannot bind the state into multi-state agreements without the approval of the General Assembly, and we plan to execute the fullest extent of our legislative power on behalf of the people of Pennsylvania.”



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PIOGA Annual Meeting: October 15

We hope you will take part in our Annual Membership Meeting on the morning of Tuesday the 15th at The Chadwick in Wexford. The event is an important opportunity to hear about the association's initiatives over the past year and into the future, vote on changes to the bylaws, meet the association's leadership and staff, and provide your input.

A Continental breakfast is available at 8:30 a.m., and the meeting is scheduled for 9-11 a.m. There is no cost to attend, but an RSVP is required (see the PIOGA Events section at pioga.org).

The agenda includes a vote by the membership on three proposed amendments to the PIOGA bylaws. The official summaries of the changes follow are in bullet points below. You can visit the Members Only area of our website for the precise language of the amendments.

- Amend the member classification provisions of the bylaws by reducing the number of, and combining, member classifications. The Board also proposes to amend the bylaws to entitle Emeritus Members to vote.

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- Provides for election of Directors more efficiently and at lower cost by amending the bylaws to enable the Association to provide the ballots electronically and to provide for voting electronically.

- Provides the Board with the authority to appoint Directors to fill vacancies for terms extending beyond the next meeting of the members.

The meeting also will feature remarks from PIOGA's chairman, Board of Directors election results, staff introductions, a government relations update, an overview of association activities including the Peoples rate case and committee reports, an update on PIOGA's natural gas market development efforts, and an open forum for members. ■



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Confirmed Speakers & Presentations:

- **Ethane Storage Hub** – Steven Hedrick, CEO, MATRIC Inc. & Chairman, CEO of Appalachia Development Group, LLC
- **A Global View of Oil and Gas** – Bob Tippee, Sr. Editor, Oil & Gas Journal
- **Power Generation & Supply** – Keith Malinoski, VP Business Development, Chrislynn Energy
- **Energy Buyers Roundtable** – Jude Clemente, Trane; Andy Huenefeld, KINECT & additional panelists to be announced
- **Luncheon Keynote: Energize PA, RGGI and More** – Mike Turzai, Speaker of the Pennsylvania House of Representatives
- **PA Open for Business** – Denise Brinley, Executive Director, Pennsylvania Governor's Office of Energy
- **The New Brownfield** – Mary Guinee, VP, and Rob Dlugos, Civil and Environmental Consultants, Inc.
- **Natural Gas Vehicles** – Daniel Gage, President, NGV America
- **Pittsburgh International Airport Development Potential** – Richard Fitzgerald, Allegheny County Executive
- **PA Chamber of Business and Industry** – Kevin Sunday, Director, Government Affairs

Wednesday, November 6

- Optional Educational Workshops for conference registrants
- Welcome Reception

All the details at pioga.org > PIOGA Events



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PIOGA challenges PA One Call municipal activity fee billing structure

PIOGA has filed a lawsuit in Commonwealth Court challenging the lawfulness of the manner in which PA One Call charges facility owners for providing them with the contractors' work locate requests, or "dig" notices. Whether or not the facility owners' lines are located within the proposed work sites, PA One Call's municipal activity fee charges all facility owners for all the contractors' dig notices in each municipality in which the facility owners have registered their lines.

PIOGA's filing describes the charges to four PIOGA producer members that participate in the PA One Call system. The percentage of notifications that pertained to these members' lines ranged from 0.3 percent to 7 percent of the dig notices billed for the applicable time periods.

PA One Call has, and uses, mapping technology to pinpoint where the contractor's proposed work site and the location of a facility owner's lines intersect, but does not use this technology to determine how to charge facility owners for its operation costs. Moreover, PA One Call does not charge contractors for *any* of its operation costs of providing service to them, instead charging fees that range from \$125 to approximately \$1.70 per year per contractor for unlimited use by the contractor of PA One Call's service.

PIOGA's position is that the Underground Utility Line Protection Law (UULPL) does not require or authorize PA One Call to charge all facility owners for all dig

notices and to charge facility owners and *only* facility owners for all its operation costs. What PA One Call's municipal activity rate structure ignores is that facility owners such as PIOGA's members bear the economic burden of participating in the PA One Call system and a significant part of that burden relates to dig notices that have nothing to do with the locations of their lines and facilities. On the contrary, the public utility, political subdivision and municipal authority facility owners *do not* bear the economic burden of PA One Call's charges because their ratepayers, customers or residents do.

PIOGA tried to work out this dispute with PA One Call during the four years the General Assembly was considering reauthorization of the UULPL, but PA One Call would not alter its methodology or rate structure, forcing PIOGA to initiate this legal action.

"Safety is priority number one of our members and the oil and gas industry," commented Dan Weaver, PIOGA President and Executive Director. "We do all that we can to protect our workers, neighbors and the environment. As good stewards our members should not be punished by unfair cost allocations when the services rendered are beneficial to all parties involved."

PIOGA's petition is available on our website at pioga.org/publication_file/PIOGA_Declaratory_Judgment_Petition_&_Exhibits_accepted_copy.pdf. ■



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PIOGA is pleased to partner again with Strategic Value Media—a leading nationwide provider of print and digital media solutions for national, state, and local trade and membership associations—to produce the 2019 edition of the PIOGA Buyers' Guide, the premier resource of relevant products and services for oil and gas professionals. This will be the fifth year the guide will be produced.

"We have heard from many members that PIOGA's online Buyers' Guide is a great resource to find oil and gas products and services quickly," said Dan Weaver, President and Executive Director. "We're pleased to offer such a needed one-stop shop that greatly assists industry professionals in making educated purchasing decisions throughout the year. We encourage PIOGA members to utilize the services or products of other member companies."

All PIOGA Service Provider and Professional Firm members receive a complimentary listing in the guide, along with the PIOGA logo to indicate the company is a member. Strategic Value Media can provide additional options of ensuring your business more visibility in the guide.

Like the 2018 version, the 2019 edition of the Buyers'



Guide will feature updated and expanded company and product listings in addition to other valuable information relating to the

industry. The Buyers' Guide provides users with an efficient way to browse for goods and services and offers oil and gas suppliers and companies exceptional visibility by showcasing their products and services to a targeted, industry-specific buyer group.

The Buyers' Guide is accessible through the PIOGA homepage at pioga.org and will be updated soon with new advertisements and information. We encourage you to take advantage of this exceptional opportunity to highlight your products and services. To learn more about advertising your products or services in the Buyers' Guide, email pioga-advertise@svmmmedia.com.

Note that a representative from Strategic Value Media may contact you by email or phone to inquire if you want to enhance your listing in the Buyers' Guide. Please know this is a legitimate call and that SVM is partnering with PIOGA to provide our members this resource for advertising their products and services. ■

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New Clean Water Act developments, same uncertainty

Despite a recent federal rule-making on the definition of “waters of the United States” (WOTUS) and the anticipated U.S. Supreme Court matter, *County of Maui v. Hawai'i Wildlife Fund*, the scope of the federal government’s authority under the Clean Water Act (CWA) could remain in flux.

Even before its publication in the *Federal Register*, opponents of the WOTUS rulemaking vowed to file legal challenges. Furthermore, a recently announced settlement in the *County of Maui* case could prevent the Supreme Court from deciding whether point source discharges that travel through groundwater before reaching a jurisdictional surface water are regulated by the CWA. The threatened legal action on the WOTUS rule-making and the announced settlement in *County of Maui* could prevent regulated parties from receiving much needed clarity on key jurisdictional issues under the CWA.



Lisa M. Bruderly, Esq.



Gary E. Steinbauer, Esq.

Babst Calland
Attorneys at Law

WOTUS final repeal rule and new definition

Step 1. On September 12, the U.S. Environmental Protection Agency (EPA) and the Army Corps of

Engineers released a pre-publication version of a final rule repealing the Obama administration’s 2015 rule re-defining WOTUS under the CWA, typically referred to as the “Clean Water Rule” (CWR). The repeal rule becomes effective 60 days after publication in the *Federal Register*, which had not yet occurred as of October 7. Major national environmental groups and states have already vowed to challenge the rulemaking.

The final repeal rule could end the existing regulatory patchwork where the CWR’s definition currently is in place in 22 states (including Pennsylvania) and the pre-2015 definition of WOTUS is in effect in 27 states and recodify the pre-2015 definition of WOTUS consistently across the United States. According to the EPA and Corps, restoring the pre-2015 CWA jurisdictional regime is appropriate to remedy the identified deficiencies in the CWR’s expansive WOTUS definition.

However, while regulated parties have a long track record of implementing the pre-2015 definition, as informed by applicable guidance documents and Supreme Court precedent, the pre-2015 definition of WOTUS has also been criticized as leading to inconsistent determinations based on its case-by-case approach to determining whether a water is subject to CWA jurisdiction. Furthermore, the pre-2015 definition of WOTUS is the subject of a fractured U.S. Supreme Court decision in *Rapanos v. United States*, 547 U.S. 715 (2006), which has been inconsistently applied by federal appellate courts. With challenges to the repeal rule expected when finalized, the repeal rule may not provide needed clarification to the regulated community. Litigation likely will be filed in multiple federal district courts. The regulatory patchwork of different WOTUS definitions may continue if any of these lawsuits is successful in obtaining a stay of the repeal rule.

Step 2. The repeal rule completes step one of the agencies’ two-step process to implement a 2017 executive order issued by President Trump. Step two of the process involves replacing the CWR’s definition of

WOTUS with a revised definition of the term. On February 14, the agencies published a proposed rule to revise the definition of WOTUS. The comment period on the proposed rule ended on April 15. The agencies reportedly received and are reviewing more than 621,000 comments on this proposed definition. EPA’s senior water official has indicated that the agencies plan to take final action on the proposed revised definition of WOTUS by this winter.

Litigation in the district courts challenging any revised WOTUS definition is a near certainty, with the potential for one or more stays of the new definition if any such challenges are successful. Arguably, any stay or stays could result in a new patchwork of WOTUS definitions,

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where some states rely on the new definition and other states rely on an older definition of WOTUS.

Potential County of Maui settlement

On November 6, the U.S. Supreme Court is scheduled to hear oral argument in the first groundwater “conduit theory” case to reach it, the *County of Maui* matter. As background, environmental groups sued the County of Maui alleging CWA violations when treated sanitary effluent that it injected into four permitted underground injection wells traveled underground some distance through groundwater before reaching the Pacific Ocean roughly 80 days later. Background articles regarding “conduit theory” can be found in the November 2018 issue of *The PIOGA Press* and on Babst Calland’s website.

In February 2019, the Supreme Court agreed to review the Ninth Circuit’s February 1, 2018, decision holding that the CWA regulates discharges of pollutants that reach jurisdictional surface waters after traveling through hydrologically connected groundwater. More specifically, the Supreme Court granted a petition for a writ of certiorari to decide “whether the CWA requires a permit when pollutants originate from a point source but are conveyed to navigable waters by a nonpoint source, such as groundwater.”

The Ninth Circuit held that the wells at issue were “point sources,” and so long as pollutants are “fairly traceable” from the “point source” and more than a *de minimis* amount of pollutants reach a jurisdictional surface water, such discharges are regulated under the CWA. *Hawai’i Wildlife Fund v. County of Maui*, 886 F.3d 737, 749 (9th Cir. 2018).

County of Maui is the first “conduit theory” case that the Supreme Court has agreed to hear, with the Fourth, Sixth and Ninth Circuit Courts clearly split on how to apply CWA liability. The Fourth Circuit generally agreed with the Ninth Circuit’s interpretation extending CWA liability for migrating groundwater contamination in *Upstate Forever v. Kinder Morgan Energy Partners, L.P.*, 887 F.3d 637 (4th Cir. 2018).

The *Upstate Forever* matter involves allegedly ongoing contamination from a previously repaired gasoline pipeline, a very different set of underlying facts as compared with *County of Maui*. The Fourth Circuit concluded that pollutants originating from a point source (i.e., the ruptured pipeline) that continue to migrate through groundwater with a “direct hydrologic connection” to surface water are regulated by the CWA, even though the pipeline leak had been repaired almost immediately and was being addressed under state remediation requirements. In contrast, subsequent decisions by the Fourth and Sixth Circuits involving inactive coal ash impoundments and landfills have found that such structures are not “point sources” under the CWA. *Sierra Club v. VEPCO*, 903 F.3d 403 (4th Cir. 2018); *Tenn. Clean Water Network v. Tenn. Valley Auth.*, 905 F.3d 436 (6th Cir. 2018); *Ky. Waterways Alliance v. Ky. Utilities Co.*, 905 F.3d 925 (6th Cir. 2018).

Recent developments, however, may prevent the

Supreme Court from deciding the *County of Maui* matter. On September 20, the Maui County Council voted 5-4 to settle the pending petition and for the County to seek a CWA National Pollutant Discharge Elimination System (NPDES) permit. The mayor of Maui County, however, has indicated that county council does not have the authority to withdraw the appeal on its own, and that the mayor has the ability to make the ultimate decision as to whether the Supreme Court petition remains on the docket. As of the publication of this article, the dispute over who has the authority (i.e., county council or mayor) remains unresolved.

The potential withdrawal of *County of Maui* matter would mean that the Supreme Court would not resolve the circuit split on the scope of the CWA’s NPDES permit program, at least for now. A petition to review the Fourth Circuit’s decision in *Upstate Forever* is also pending. If the *County of Maui* appeal is withdrawn, the Supreme Court could take up the *Upstate Forever* case at some point in the future. Meanwhile, EPA’s April 2019 interpretive guidance, concluding that releases of pollutants to groundwater are categorically excluded from the CWA’s NPDES permitting requirement, remains in effect nationwide, except for the Fourth and Ninth Circuits. Therefore, until the Supreme Court resolves the circuit split, regulated parties in the Fourth and Ninth Circuits, including members of the oil and gas industry, will be subject to potentially more expansive requirements under the CWA.

Clarity on key CWA jurisdictional issues hangs in the balance as litigants prepare to challenge the agencies’ final repeal rule and jockeying continues on the potential settlement in the *County of Maui* matter. Babst Calland is actively monitoring these developments and evaluating their potential effect across sectors and industries, including the oil and gas sector. If you have any questions, please contact Lisa M. Bruderly at 412-394-6495 or lbruderly@babstcalland.com or Gary E. Steinbauer at 412-394-6590 or gsteinbauer@babstcalland.com. ■

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Workplace Security - In the Office and In the Field

We hope you have registered for the next installment in PIOGA's Technical Seminar Series, which will address workplace security issues. It takes place on Thursday, October 17, at the Hilton Garden Inn in Canonsburg.



The daylong event is hosted by PIOGA's Safety and Environmental Committees along with our partners JS Held, Meinert/Mashek Communications and RETTEW. Wilkes University will once again provide continuing education credits for participants.

The topics we will address include:

- **Active Shooter Awareness.** Due to an increase in active shooter incidents and the swiftness with which they unfold, we must now prepare ourselves, our coworkers, families and communities. This awareness level course will focus on how to be prepared and gain

the skills needed to prevent, recognize and increase your ability to survive during an active shooter incident. The course will provide details on what behaviors to look for and who to contact to prevent an active shooter incident. Participants will also learn how to make educated life-saving decisions regarding which actions to take during an active shooter incident.

- **Performing Security Vulnerability Assessments.**

The office security awareness training is designed to provide a commonsense approach in identifying common hazards, potential threats and various techniques to help create a more secure workplace.

- **Site Security Awareness.** This session will cover conducting vulnerability assessments, determining asset attractiveness to threats, integrating assessments with process hazard analysis and the importance of routinely reviewing emergency response procedures.

- **Stakeholder Outreach Training.** Sustained efforts by activists to inhibit development of fossil fuels creates a real potential for escalation to violence. This segment will focus on establishing a plan to understand the communities in which oil and gas operations are taking place. This includes developing working partnerships with local responders to improve communication and coordination in the event of an incident, as well as a media and public outreach plan to respond to inquiries and preempt the potential for rumors or misinformation.

More information is in the PIOGA Events section at pioga.org. ■



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WEN Pittsburgh chapter holds successful first conference



The Women's Energy Network (WEN) Greater Pittsburgh Chapter held its inaugural educational conference on September 27 in partnership with Duquesne University School of Law. The daylong program was titled "There is nothing conventional about Appalachian operations" and focused on the sometimes-unique challenges faced by operators working in the region.

PIOGA member and WEN Greater Pittsburgh board member Bridget Sasson of Dickie, McCamey & Chilcote, P.C. organized the event and served as host for the program. The technical presentations covered topics throughout the value chain, ranging from acquisition of assets to pipeline construction. The 16 different presenters work for operators of varying sizes or service providers in the region and included a professor from

Duquesne University School of Law.

Stacey Olson, President, Chevron Appalachia, LLC, served as the keynote speaker and focused on the importance of diversity and inclusion in the industry. She spoke about her 30 years in the industry and how things have changed, but that there is still work to be done. However, tough conversations both at home and in the workplace are sometimes necessary to move the industry and professionals forward.

The event was attended by over 100 professionals, both men and women. WEN Greater Pittsburgh Chapter is very proud of this venture and has received amazing feedback from all attendees. The chapter intends to hold more educational events spotlighting the talented women working in the region in the future. ■



Jennifer Vieweg of Greylock Energy was presented a plaque of appreciation for her service to PIOGA's Board of Directors. The September 24 board meeting was Jennifer's last. Making the presentation were Chairman Gary Slagel (left) and Dan Weaver, President and Executive Director.

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PIOGA Market Development Committee visit to Proctor & Gamble



Members of the PIOGA Market Development Committee toured Proctor & Gamble's plant in the northeast Pennsylvania town of Mehoopany on September 12. The facility manufactures such brands as Bounty, Pampers, Luvs and Charmin. Supplied by natural gas wells on the property, two gas-fired cogeneration turbines provide the plant's electric power. Hot air discharges from the turbines are used to dry paper at the paper machines. Compressed natural gas is used in P&G's trucks as well. The day before, the group also visited the NG Advantage CNG facility in nearby Springville.



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IFO estimates PA royalty owners received \$1.6 billion last year

The state's Independent Fiscal Office (IFO) released a report last month estimating that Pennsylvania landowners received \$1.639 billion in royalty payments in 2018 and \$9.815 billion since 2010. Last year's amount was an increase of 55 percent over the 2017 total due to increased production and higher market prices for natural gas, the IFO said.

The IFO emphasized that the royalty numbers are estimates. Producers are not required to disclose how much they pay leaseholders and royalty income is lumped together with rental, patent and copyright revenue on the state income tax form. The September research brief includes the IFO's methodology for arriving at its estimates.

"The analysis estimates that natural gas royalty pay-

ments totaled \$905 million in tax year 2010, peaked at \$1.62 billion in tax year 2014, and then declined to \$1.06 billion in tax year 2017," the IFO said in its overview. "The collapse of natural gas prices in 2015 and 2016 motivated the large reduction in estimated royalty payments, although statewide production increased in both years. For 2017, natural gas prices recovered and estimated royalty payments did too."

For the 2018 tax year, the IFO projected a further increase in royalties paid to Pennsylvania landowners. Compared to 2017, the average spot price at major Pennsylvania hubs increased by more than one-third, while total output increased by 14 percent, the IFO explained. If those gains were passed through to landowners, then royalty payments would increase approximately 50-55 percent, bringing the total to more than \$1.6 billion.

The accompanying table highlights estimated royalty income in the top eight producing counties. ■

Estimated Pennsylvania Natural Gas Royalty Income

	2010	2011	2012	2013	2014	2015	2016	2017	2018
Susquehanna	\$134	\$80	\$105	\$202	\$272	\$162	\$119	\$204	n.a.
Washington	176	227	182	245	427	258	181	264	n.a.
Bradford	161	161	123	182	230	107	63	104	n.a.
Greene	59	58	55	112	143	101	90	129	n.a.
Lycoming	47	64	62	72	78	40	18	29	n.a.
Wyoming	58	28	32	68	108	45	29	61	n.a.
Tioga	95	70	48	50	58	75	30	46	n.a.
Butler	85	106	220	116	138	102	50	115	n.a.
All Other Counties	<u>90</u>	<u>88</u>	<u>92</u>	<u>116</u>	<u>162</u>	<u>99</u>	<u>65</u>	<u>106</u>	<u>n.a.</u>
TOTAL	905	883	919	1,163	1,616	988	645	1,057	\$1,639
Growth Rate		-2.4%	4.0%	26.6%	38.9%	-38.9%	-34.7%	63.9%	55.0%

Note: Figures in dollar millions. Estimates include a 7 percent adjustment for non-compliance. Assumes All Other Counties comprise roughly 10 percent of total production and they would report 10 percent of total royalty income. Estimate for 2018 based on production gains and growth in average hub spot prices. Counties ranked by production in 2017.

Source: Pennsylvania Department of Revenue, Personal Income Tax Statistics, various years. Computations by the IFO.

Recruit a new member, get rewarded!

Don't forget about PIOGA's incentive program intended to promote membership growth while rewarding active members for helping with that goal. Here are the guidelines:

- Recruiting a new member earns a credit equal to 10 percent of the amount of the first year dues of the newly recruited member.
- Credits must be applied toward reduction of PIOGA dues, PIOGA event fees, PIOGA sponsorships, PIOGA advertising (PIOGA Press and eWeekly only) or PIOGA donations.
- To claim any credits, your membership must be current and in good standing.
- You must inform the PIOGA Membership Committee of your member(s) recruited.
- There is no limitation on how many new members can be

recruited per year.

- Credits will not be issued in the form of cash or legal tender.
- Credits cannot be claimed for renewing members who have been in default less than two years.
- Credits must be applied/used within the calendar year of being credited to your PIOGA account or will automatically be applied to your next year's dues.
- You may apply credits toward partial or progressive prepayments to your PIOGA account.

Questions? Want to participate? Contact Bob Beatty, chairman of PIOGA's Membership Committee, at rhbeatty@gmail.com or 814-590-4498, or Debbie Oylar, Director of Member Services, at debbie@pioga.org or 724-933-7306 ext. 22.

USGS greatly increases estimates of shale gas in Appalachian Basin

The Marcellus Shale and Point Pleasant-Utica Shale formations of the Appalachian Basin contain an estimated mean of 214 Tcf of undiscovered, technically recoverable natural gas, according to new assessments by the U.S. Geological Survey.

"Watching our estimates for the Marcellus rise from 2 trillion to 84 trillion to 97 trillion in under 20 years demonstrates the effects American ingenuity and new technology can have," said USGS Director Jim Reilly. "Knowing where these resources are located and how much exists is crucial to ensuring our nation's energy independence."

The new estimates represent a significant increase from the previous USGS assessments of both formations. In 2011, the USGS estimated a mean of 84 Tcf of natural gas in the Marcellus Shale, and in 2012 the agency projected about 38 Tcf feet of natural gas in the Utica Shale.

The USGS assessments are for remaining resources and exclude known and produced oil and gas.

The Marcellus, Point Pleasant and Utica formations cover parts of Kentucky, Maryland, New York, Ohio, Pennsylvania, Virginia and West Virginia. The natural gas in these formations is classified as continuous, because it is spread throughout the assessed rock layers instead of being concentrated in discrete accumulations.



"Since our assessments in 2011 and 2012, industry has improved upon their development techniques for continuous resources like the shale gas in the Appalachian Basin," said Walter Guidroz, program coordinator for the USGS Energy Resources Program. "That technological advancement, plus all of the geological information we've gained from the last several years of production, have allowed us to greatly expand our understanding of these formations."

The Marcellus Shale also contains an estimated 1.5 billion barrels of natural gas liquids (NGLs), while the Point Pleasant-Utica Shale also contains an estimated 1.8 billion barrels of oil and 985 million barrels of NGLs.

The new assessment of the Marcellus Shale can be found at pubs.er.usgs.gov/publication/fs20193050 and the Point Pleasant-Utica assessment at pubs.er.usgs.gov/publication/fs20193044. ■

PIOGA Member Profiles

Introduce your company

Introduce your company and tell other members what you offer to Pennsylvania's oil and gas industry. The guidelines for making a PIOGA Member Profile submission are:

- Include a brief history of your company. When and where was it founded, and by whom? Is the company new to the oil and gas industry in general or to Pennsylvania?
- Describe the products and services you offer specifically for the oil and gas industry. Do you have a product in particular that sets your company apart from the competition?
- If applicable, tell how the business been positively impacted by Pennsylvania's oil and gas industry. Have you expanded, added employees or opened new locations?
- Include a website address and/or phone number.
- Your submission may be a maximum of 400-450 words and should be provided as a Word document. Use minimal formatting—bold and italic fonts are OK, as are bulleted or numbered lists. Your submission is subject to editing for length, clarity and appropriateness.
- Include your company logo or a photo. Images must be high-resolution (300 dots/pixels per inch or higher) and in any common graphics format. Please include identifications for any people or products in a photo. Send image files separately, not embedded in your document.

Email material to Matt Benson at matt@pioga.org. This is a free service to our member companies and publishing dates are at the discretion of PIOGA. If you have questions, email Matt or call 814-778-2291.

New PIOGA members — welcome!

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Long Ridge Energy Generation

43840 OH-7, Hannibal, OH 43931

724-416-5534 • www.longridgeenergy.com

Pipeline

T3 Industries Inc.

2590 Shelly Drive, Indiana, PA 15701

724-388-9917

Service Provider—auto-fueling technology for frac pumping equipment

Huntley & Huntley Energy Exploration renamed Olympus Energy

Huntley & Huntley Energy Exploration, LLC, a privately held independent natural gas company in the Appalachian Basin, announces it has changed its name to Olympus Energy LLC. Since its formation in 2012, the company has focused on building and delineating its core acreage position in Southwestern Pennsylvania. This name change signals the beginning of a new chapter for the company, focusing on the development of its assets, and better reflects its vision for the future.

"Our transformation comes at a time of exciting growth and opportunity for our company," said M. Chris Doyle, Olympus Energy President and CEO. "Our initial delineation wells have outperformed expectations, providing the platform to differentiate ourselves as an emerging leader within the Basin."

The new name, Olympus Energy, reflects the Company's focus on driving a new era of energy leadership within the Appalachian Basin, built on a deep commitment to maintaining the highest safety and environmental standards while delivering exceptional value to all stakeholders.

Olympus is headquartered in Canonsburg and specializes in upstream and midstream development of natural gas resources in the Appalachian Basin. Olympus has a scalable asset base in Southwestern Pennsylvania, having assembled over 100,000 largely contiguous and operated acres within the core Marcellus, Utica and Upper Devonian fairways.

RETTEW continues with strategic leadership succession plan

RETTEW has announced that Suhail Khan, Vice President of Technology and Facilities, has been promoted to a new position at the firm, Chief Strategy and Innovation Officer. Khan's promotion follows the recent promotion of Clayton Bubeck, PE, from Senior Vice President and Chief Marketing Officer to President.

In his new role, Khan will focus on identifying and implementing strategies and innovations to improve RETTEW's competitiveness and preserve the long-term sustainability of the organization. Since 1996, Khan has been an integral part of RETTEW's information technology team, first as a technician and then rising through the ranks to the role of Vice President.

He holds a bachelor's degree in psychology from the Virginia Polytechnic Institute, a bachelor's degree in computer science from Millersville University, a master's degree in information science from The Pennsylvania State University, and an MBA from MIT. He also has his LEED Green Associate credential and a Business

Analytics certificate from MIT.

Schnader achieves 'Mansfield Certification Plus' for Mansfield Rule 2.0 diversity initiative

Schnader Harrison Segal & Lewis LLP has achieved "Mansfield Certification Plus" after successfully completing Diversity Lab's rigorous year-long Mansfield Rule 2.0 program. As part of Schnader's commitment to diversity, through this program, the firm was able to continue to take affirmative and quantifiable steps to further increase the participation of women, LGBTQ+, and minority lawyers for promotions, senior level hiring and significant leadership roles.

The Mansfield Rule, named after Arabella Mansfield, the first woman admitted to practice law in the United States, is a diversity program modeled after the NFL's Rooney Rule, which boosts diversity in NFL leadership positions. In addition to meeting or exceeding the requirements for Mansfield 2.0 certification, Schnader also achieved Mansfield Certification Plus status by successfully increasing its diverse lawyer representation in a notable number of leadership roles and committees, by at least 30 percent.

DeAngelo promoted to Associate of Skelly and Loy

Skelly and Loy announces the promotion of Paul DeAngelo to Associate and Vice President of the firm's Environmental Service Group. Along with this promotion, he joins the firm's Strategic Leadership Team, providing valuable input pertaining to strategies for the future of Skelly and Loy.

"Paul has proven to be an excellent manager of staff and projects within the Environmental Service Group, working with senior managers to grow the group and mentor new employees. We are excited to have him participate in the Strategic Leadership Team," remarked Sandra K. Basehore, Executive Vice President, Environmental Services.

DeAngelo has been with Skelly and Loy for more than 28 years. He is directly responsible for a staff of 40 professionals and supervising projects with a cumulative annual budget of more than \$8.4 million.

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Legislative update *Continued from page 1*

tion to the bill in its current form (without sitting down at the table to negotiate something the administration would find acceptable). As such, the possibility of a veto remains real if the bill makes it through the legislature.

Energize PA / Restore Pennsylvania

As lawmakers returned to Harrisburg this fall, Speaker of the House Mike Turzai and his fellow Republicans in the House of Representatives renewed efforts to pass the remaining components of their Energize PA package intended to spur economic development and jobs largely by leveraging the state's natural gas resources (*May PIOGA Press, page 1*).

Before the summer break, one piece of the eight-bill package—HB 1103, expanding the Pipeline Investment Program, or PIPE, which provides grants to extend natural gas service—passed the House. The language from the bill then ended up in the Fiscal Code portion of the state budget for FY 2019-2020 (*July PIOGA Press, page 1*). This was the status of the other bills as of the end of the first week in October:

- **HB 1100** mirrors the existing Pennsylvania Resource Manufacturing Tax Credit that was established during the 2012-13 budget and helped result in construction of Shell's Beaver County petrochemical plant. This legislation would help large manufacturers using Pennsylvania-produced methane in production. Passed the House September 19 and was referred to the Senate Finance Committee

- **HB 1101** would increase the percentage rate cap for net loss deductions, otherwise known as net operating loss (NOL), that a business may carry forward. The current percentage is 40 percent; the bill increases that to 45 percent in tax year 2020 and 50 percent in 2021. No action has taken place since being referred to the House Finance Committee in April.

- **HB 1102** creates the Keystone Energy Enhancement Act. It is designed to encourage capital investment in Pennsylvania's natural gas and manufacturing industries. Approved by the House Commerce Committee on September 25 and was referred to the Appropriations Committee.

- **House Bill 1104** requires the Department of Community and Economic Development to establish a registry for abandoned manufacturing sites throughout the state. By establishing a one-stop shop for available industrial properties, the state is making it clear that Pennsylvania is open for business and wants that business. Passed the House on September 25.

- **HB 1105** would further incentivize businesses to remediate properties that pose health and safety risks. Referred to the Senate Environmental Resources and Energy Committee after House approval in June.

- **HB 1106** requires all environmental permits be acted on within 30 days of receipt and deems a permit application as approved if a completed permit is not acted on within the timeframes established in the legislation. Awaiting consideration by the full House.

- **HB 1107** creates a new independent entity responsible for reviewing and acting on permit requests so that the Department of Environmental Protection can focus on enforcing state statutes and regulations, and promulgating rules and regulations. Approved by the House State Government Committee on September 18 and referred to Appropriations.

Despite Governor Wolf and top members of his administration continuing to crisscross the state touting his plan to use a severance tax on natural gas to pay for \$4.5 billion in borrowing for a wide array of capital projects—from broadband Internet access to flood control—the legislative prospects for Restore Pennsylvania look increasingly dim.

The House version of the legislation enabling the plan, HB 1585, has been mired in the House Energy and Environmental Resources Committee since early June. Democrats had floated the idea of initiating what is known as a discharge petition to force the bill out of committee and onto the House floor for a vote. However, over the summer some environmental activists began decrying the proposal on the grounds that it would essentially encourage a robust natural gas industry—it would take at least 20 years of a severance tax to pay back the money borrowed under Restore PA—at a time when they want to decrease reliance on fossil fuels. As a result, a considerable number of the legislation's many cosponsors dropped off or backed away from their support.

Other legislation

In other action late last month, the Senate unanimously approved **SB 694**, which amends the Oil and Gas Act to establish an accounting process to allow well bores to cross multiple drilling units, provided that the operator holds the rights to drill the well. Under such operations, the operator must proportionally allocate production revenues across the multiple owners of the drilling units.

As we reported in the July *PIOGA Press*, the rationale behind the proposal is that the typical lease used by unconventional operators defines a drilling unit as 640 acres or one square mile. Those leases never contemplated that laterals would eventually extend well beyond a mile. The bill would give operators who own adjoining leases the ability to drill across units without the need to reopen leases.

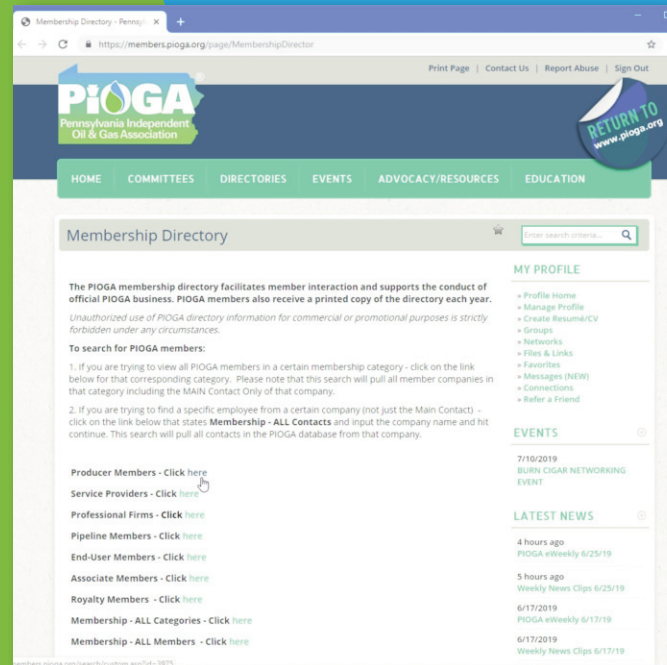
After Senate approval, the bill had not yet been assigned to a House committee as of this writing. ■

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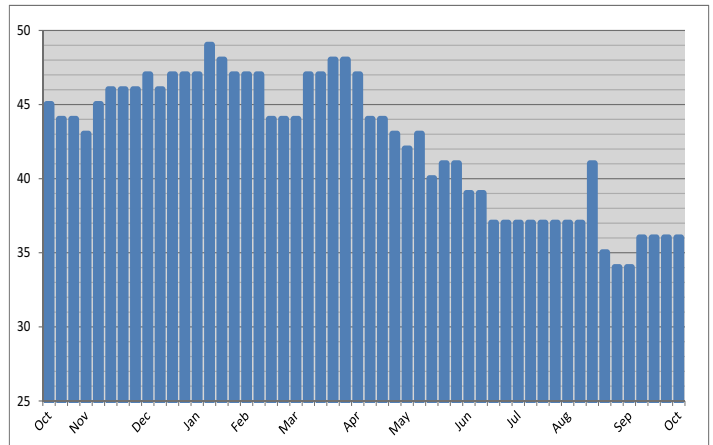
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Pennsylvania Rig Count



Penn Grade Crude Oil Prices



Natural Gas Futures Closing Prices

Month	Price
November 2019	\$2.301
December	2.502
January 2020	2.631
February	2.594
March	2.493
April	2.284
May	2.268
June	2.312
July	2.358
August	2.367
September	2.350
October	2.375

Prices as of October 8

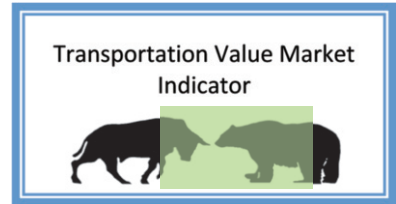
Sources

American Refining Group: www.amref.com/Crude-Prices-New.aspx
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 Gas futures: quotes.ino.com/exchanges/?r=NYMEX_NG
 Baker Hughes rig count: phx.corporate-ir.net/phoenix.zhtml?c=79687&p=irol-report-sother
 NYMEX strip chart: Nucomer Energy, LLC, emkeyenergy.com

Northeast Pricing Report – October 2019

For front month trading, all points decreased since September. Transco Leidy and Dominion South were down the greatest amount, or \$0.45 and \$0.43 per MMBtu respectively. Algonquin decreased the least at \$0.17 per MMBtu. One-year trading was mixed. Transco Leidy and Dominion South were both down \$0.06 per MMBtu, however TETCO M3 gained \$0.18 per MMBtu. Overall the full-term trading was mixed. Although not substantial, there was greater than normal volatility. Algonquin rose \$0.11 per MMBtu and Transco Leidy dropped \$0.02 per MMBtu, while Transco Z6 and TETCO M3 were up \$0.07 and \$0.05 per MMBtu respectively.

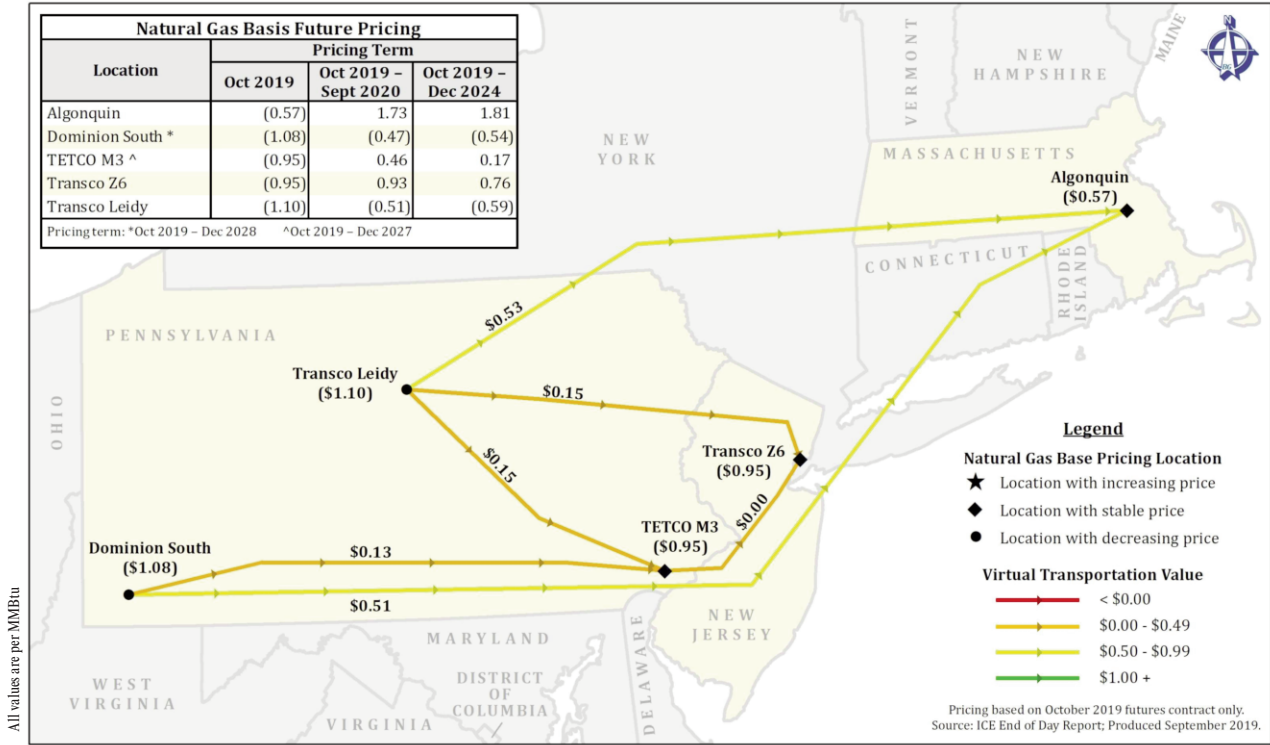
Nearly all transportation routes increased. Transco Leidy to Algonquin increased the most at \$.53 per MMBtu or 112% from the previous month. Dominion South to Algonquin increased \$0.51 per MMBtu or 104%. TETCO M3 to Transco Z6 was the only transportation route that decreased. The decrease was a minimal \$0.03 per MMBtu.



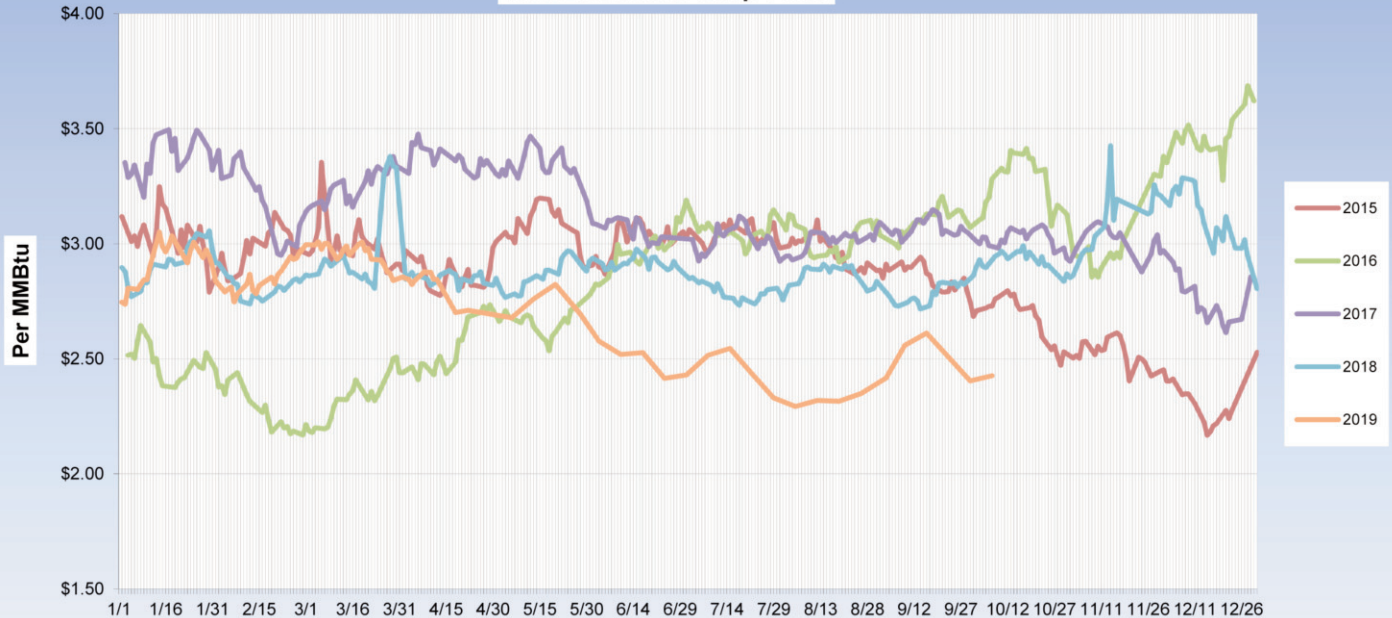
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Location	Pricing Term		
	Oct 2019	Oct 2019 – Sept 2020	Oct 2019 – Dec 2024
Algonquin	(0.57)	1.73	1.81
Dominion South *	(1.08)	(0.47)	(0.54)
TETCO M3 ^	(0.95)	0.46	0.17
Transco Z6	(0.95)	0.93	0.76
Transco Leidy	(1.10)	(0.51)	(0.59)

Pricing term: *Oct 2019 – Dec 2028 ^Oct 2019 – Dec 2027



NYMEX Annual Strip Price



Spud Report: September 2019



The data show below comes from the Department of Environmental Protection. A variety of interactive reports are

OPERATOR	WELLS	SPUD	API #	COUNTY	MUNICIPALITY
Autumn Ridge Energy LLC	4	9/5/19	123-48260*	Warren	Mead Twp
		9/16/19	123-48261*	Warren	Mead Twp
		9/20/19	123-48262*	Warren	Mead Twp
		9/27/19	123-48263*	Warren	Mead Twp
Bearcat Oil Co LLC	2	9/9/19	123-48241*	Warren	Mead Twp
		9/26/19	123-48242*	Warren	Mead Twp
Cabot Oil & Gas Corp	11	9/13/19	115-22607	Susquehanna	Bridgewater Twp
		9/13/19	115-22614	Susquehanna	Bridgewater Twp
		9/13/19	115-22680	Susquehanna	Bridgewater Twp
		9/13/19	115-22221	Susquehanna	Bridgewater Twp
		9/13/19	115-22222	Susquehanna	Bridgewater Twp
		9/13/19	115-22424	Susquehanna	Bridgewater Twp
		9/13/19	115-22223	Susquehanna	Bridgewater Twp
		9/13/19	115-22425	Susquehanna	Bridgewater Twp
		9/13/19	115-22224	Susquehanna	Bridgewater Twp
		9/13/19	115-22219	Susquehanna	Bridgewater Twp
		9/13/19	115-22220	Susquehanna	Bridgewater Twp
Cameron Energy Co	3	9/10/19	123-48215*	Warren	Sheffield Twp
		9/18/19	123-48364*	Warren	Sheffield Twp
		9/25/19	123-48365*	Warren	Sheffield Twp
Chesapeake Appalachia LLC	2	9/25/19	113-20416	Sullivan	Colley Twp
		9/25/19	113-20415	Sullivan	Colley Twp
Curtis Oil Inc	3	9/11/19	053-30881*	Forest	Howe Twp
		9/17/19	053-30882*	Forest	Howe Twp
		9/24/19	053-30883*	Forest	Howe Twp
EQT Prod Co	5	9/10/19	125-28726	Washington	Fallowfield Twp
		9/10/19	125-28725	Washington	Fallowfield Twp
		9/10/19	125-28727	Washington	Fallowfield Twp
		9/10/19	125-28728	Washington	Fallowfield Twp
		9/10/19	125-28729	Washington	Fallowfield Twp
Gas & Oil Mgmt Assoc Inc	2	9/10/19	123-48367*	Warren	Mead Twp

available at www.dep.pa.gov/DataandTools/Reports/Oil and Gas Reports.

The table is sorted by operator and lists the total wells reported as drilled last month. **Spud** is the date drilling began at a well site. The **API number** is the drilling permit number issued to the well operator. An asterisk (*) after the API number indicates a conventional well.

OPERATOR	WELLS	SPUD	API #	COUNTY	MUNICIPALITY
Johnson Well Svc LLC	1	9/25/19	123-48369*	Warren	Mead Twp
		9/30/19	123-48404*	Warren	Mead Twp
KCS Energy Inc	4	9/5/19	123-48265*	Warren	Watson Twp
		9/12/19	123-48268*	Warren	Watson Twp
		9/19/19	123-48269*	Warren	Watson Twp
		9/26/19	123-48270*	Warren	Watson Twp
Pennhills Resources LLC	3	9/16/19	083-57199*	McKean	Wetmore Twp
		9/23/19	083-57133*	McKean	Wetmore Twp
		9/27/19	083-57134*	McKean	Wetmore Twp
Range Resources Appalachia	4	9/19/19	003-22585	Allegheny	Frazer Twp
		9/20/19	003-22574	Allegheny	Frazer Twp
		9/20/19	003-22572	Allegheny	Frazer Twp
Rice Drilling B LLC	3	9/20/19	003-22573	Allegheny	Frazer Twp
		9/13/19	125-28772	Washington	N Bethlehem Twp
		9/13/19	125-28771	Washington	N Bethlehem Twp
Seneca Resources Co LLC	9	9/13/19	125-28777	Washington	N Bethlehem Twp
		9/21/19	023-20253	Cameron	Shippen Twp
		9/21/19	023-20257	Cameron	Shippen Twp
		9/21/19	023-20254	Cameron	Shippen Twp
		9/21/19	023-20255	Cameron	Shippen Twp
		9/9/19	117-22045	Tioga	Delmar Twp
		9/9/19	117-22053	Tioga	Delmar Twp
		9/10/19	117-22051	Tioga	Delmar Twp
		9/10/19	117-22052	Tioga	Delmar Twp
Snyder Bros Inc	6	9/11/19	117-22050	Tioga	Delmar Twp
		9/16/19	005-31305	Armstrong	East Franklin Twp
		9/16/19	005-31306	Armstrong	East Franklin Twp
		9/16/19	005-31307	Armstrong	East Franklin Twp
		9/16/19	005-31308	Armstrong	East Franklin Twp
		9/16/19	005-31344	Armstrong	East Franklin Twp
STL Resources LLC	3	9/16/19	005-31345	Armstrong	East Franklin Twp
		9/24/19	035-21321	Clinton	Gallagher Twp
		9/24/19	035-21322	Clinton	Gallagher Twp
		9/24/19	035-21323	Clinton	Gallagher Twp
Tilden Marcellus LLC	3	9/27/19	117-22061	Tioga	Gaines Twp
		9/27/19	117-22065	Tioga	Gaines Twp
		9/27/19	117-22064	Tioga	Gaines Twp
Weldbank Energy Corp	3	9/11/19	123-48168*	Warren	Mead Twp
		9/16/19	123-48167*	Warren	Mead Twp
		9/27/19	123-48170*	Warren	Mead Twp
Wilmoth Interests Inc	6	9/3/19	123-48382*	Warren	Mead Twp
		9/27/19	123-48398*	Warren	Mead Twp
		9/6/19	123-48354*	Warren	Sheffield Twp
		9/11/19	123-48350*	Warren	Sheffield Twp
		9/17/19	123-48347*	Warren	Sheffield Twp
		9/20/19	123-48346*	Warren	Sheffield Twp

	September	August	July	June	May	April
Total wells	77	42	96	64	93	58
Unconventional Gas	46	21	73	45	83	44
Conventional Gas	0	0	0	0	0	0
Oil	29	20	22	19	8	14
Combination Oil/Gas	2	1	0	0	0	0
Storage	0	0	1	0	2	0

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PIOGA Centennial knife

To commemorate PIOGA's 100th anniversary, we commissioned this knife from W.R. Case & Sons Cutlery Company in Bradford. The limited edition, collector quality knife and wooden display box feature the Centennial logo. It makes a great gift! Get yours before they're gone at members.pioga.org.



Calendar of Events

PIOGA events

PIOGA event info: pioga.org > **PIOGA Events**

Annual Membership Meeting

October 15, The Chadwick, Wexford

PIOGATech: Workplace Security — In the Office and In the Field

October 17, Hilton Garden Inn, Canonsburg

Ghoulish Gathering Halloween Networking Event

October 30, Maggies Farm Rum, Distillery, Pittsburgh

Marcellus to Manufacturing Conference

November 7, Energy Innovation Center, Pittsburgh

Annual Oil & Gas Tax and Accounting Seminar

November 21, Holiday Inn Express Southpointe, Canonsburg

PIOGATech: Air Quality Compliance

December 17, The Chadwick, Wexford

Holiday Mixer

December 17, The Chadwick, Wexford

Other association & industry events

48th Annual AAPG Eastern Section Meeting

October 12-16, Columbus, OH
www.esaapg.org/annual-meeting

Shale Insight

October 22-24, David L. Lawrence Convention Center, Pittsburgh
shaleinsight.com

IPAA Mid-Year Meeting

November 6-8, The Fairmont, Georgetown, MD
www.ipaa.org/events

OOGA 2020 Annual Meeting

March 4, Columbus, OH
www.ooga.org/events

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A Spooktacular Gassy & Oily
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Wednesday,
October 30
6:00 - 9:00 p.m.

Maggies Farm
Rum Distillery
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Pittsburgh

*Those who join in
with spooky
couture are
eligible for a
delicious surprise!*

Information, registration & sponsorship opportunities: pioga.org > PIOGA Events