On February 21st, the Ohio Department of Natural Resources (ODNR) officially began the process to implement a rules package pertaining to well pad construction guidelines for horizontal wells. The rules package includes a detailed and comprehensive set of regulations for well pad construction, along with a rule implementing “best management practices” in the Ohio Administrative Code (OAC).

The bulk of the well pad construction rule would create OAC 1501: 9-2-02 on site construction for a horizontal well. The rule first states that no one may begin construction of a well pad until they have received an approved application from the Chief. The application will contain information such as contact information of applicant (name, address, company, and signature), emergency contact information, well site plans, and coordinates of the entrance of the site.

These well site plans must be developed, signed, and sealed by a professional engineer. Well site plans must include five aspects. First, the engineer must provide detailed drawings of the site. These drawings must include a general layout of the site, a color orthorectified aerial image of the site, the classified soil types, previously impacted lands (including surface and underground mines), all bodies of water (including springs, wetlands, streams, lakes, rivers, ponds, creeks, and water wells within 200 feet of the proposed well site), risk and hazard zones via the "National Flood Insurance Rate Map", the final disposition of materials that will result from the construction, operation and plugging of the well, all lease roads and emergency access routes, and any areas within the five-year time of travel associated with a public drinking water supply. In all, 11 different requirements are being applied to these detailed drawings.

Secondly, a sediment and erosion control plan must be created that will comply with several areas. The plan must be consistent with the best management practices for oil and gas well site construction (addressed in another rule and revolves around API and ASTM standards), watershed boundaries, and a description of the soil stabilization measures that will be used, amongst others.

Third, a dust control plan is required. The plan must identify the dust control measures to be used, describe the basis for when these measures will be used, contact information for the individual responsible for enactment of the plan, and a method and procedure to evaluate and document all complaints as they related to the plan.

Fourth, a geotechnical report describing the conditions, design considerations and construction requirements of the proposed well site must be created. This includes soil borings, slope stability analysis, subsurface exploration data relevant to the geotechnical investigation and interpretation, and the factor of safety for bearing capacity and slope stability. ODNR also is requesting the documents used to show the calculations used to determine the factor of safety.

Finally, ODNR is requesting that a storm water hydraulic report is submitted. This report will include hydraulic design documentation for all pipes, ditches, and conveyances that carry surface water within the well site. Additionally, the report should also show design methods used and supporting calculations demonstrating best management practices, materials and specifications of the material associated with the design and delineated on the detailed drawings, and a demonstration that the storm water conveyance system is designed and capable of storing storm water runoff.

After all of this information is submitted, the Chief has ten days to certify the application as complete. If the application is not complete, the Chief shall notify the applicant of this fact and return the application. If complete, an on-site review will be conducted. The applicant is required to stake the boundaries of the proposed well site prior to the review.

Continued on page 6
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As I write these comments we have just concluded the 67th annual OOGA Winter Meeting at the Hilton at Easton in Columbus, Ohio. There were over 1,500 attendees and 79 exhibitors. This meeting is quite possibly the largest Winter Meeting in OOGA history. The exhibitors I spoke with reported that they made many significant contacts and they had an overall positive experience.

This OOGA Winter Meeting was a huge success for many reasons. In large part, this was a wonderful event because of the dedicated OOGA staff. Pete MacKenzie and the rest of the OOGA staff spend literally hundreds of man-hours preparing for this event. The amount of work that goes on behind the scene is simply incredible.

The speakers and panelists this year were outstanding. Thanks to all of them for the time and effort they put into their various presentations. Many hours of preparation goes into a 30 to 60 minute talk.

And last, but certainly not least, it was you the attendees that made this event a huge success. Many have attended these meetings for over 30 years. I have never seen the attendees more actively engaged in the entire process—from interacting with the exhibitors, to attending the various presentations, to engaging in all the various social events. Everyone seemed, excited and ready to participate. These are exciting times in the oil and gas industry in Ohio. Watch for pictures of the Winter Meeting in the April 2014 issue of this Bulletin.

As we learned from Pete MacKenzie’s presentation, the Utica Shale play in Ohio continues to expand and grow at a vigorous pace. According to Mr. MacKenzie’s estimates, Ohio gas production grew from 83.4 billion cubic feet in 2012 to about 203 billion cubic feet in 2013. Ohio’s oil production grew from 4.9 million barrels in 2012 to about 9.7 million barrels in 2013.

While all of this is going on, Tom Stewart, Brian Hickman, Penny Seipel, and the rest of our legislative team are working diligently to protect your interests at the Ohio Statehouse. That team is working hard to resolve the severance tax issue as well as a myriad of other pertinent issues.

Sadly, our great friend Phil Dever passed away March 6, 2014 while attending the Winter Meeting. Phil was a 2010 inductee in the OOGA Hall of Fame. Phil has been a member of OOGA for decades. He and his family have also been great supporters of the Ohio Oil and Gas Energy Education Program (OOGEEP). Phil’s engaging personality and quick wit will be greatly missed by all of us.

Remember, we all need to be vocal for this great domestic oil and gas industry. You are helping in providing clean, abundant, inexpensive, domestic energy to a nation that is hungry for more.

David R. Hill

OOGA President

David R. Hill
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The Ohio Oil and Gas Association is pleased to announce that we have chosen to work with Naylor, LLC, as our official integrated media communication partner for 2014. Beginning with the April edition of the Bulletin and the 2014 Membership Directory, members will see OOGA’s publications revamped and improved with a brand new look.

As Ohio’s oil and gas industry has grown, so have our staff and communication efforts. We are confident that our partnership with Naylor will continue to increase the unmatched educational, networking and promotional opportunities already included in our membership services.

Naylor currently provides advertising and communication services for other statewide and national oil and gas associations, such as IPAA and the Louisiana Oil and Gas Association (LOGA). As part of our partnership with Naylor, they will handle all advertising for both the Bulletin and 2014 Membership Directory. While you will be contacted by a Naylor representative, you can also find all available advertising opportunities on the Ohio Oil and Gas Association website at www.ooga.org.

If you have any questions regarding our transition, please contact me at Anne@ooga.org.
ODNR Introduces Well Pad Construction Rules for Horizontal Wells (cont. from cover)

Thirty days after the site review, the Chief will provide written notification to the applicant that the application is approved or that additional items must be addressed. If additional items are required, the applicant may submit a revised application and note the required revisions. Once this written approval is received, the well site may begin to be constructed.

The rules package has been formally sent to the Common Sense Initiative (CSI) for a business impact analysis. The CSI, created by the Kasich Administration, was generally done in an effort to score the perceived impact of proposed rules on businesses. CSI has adopted criteria for this review that revolves around facilitating economic growth, transparency, expenses, and fairness.

The OOGA has submitted comments on the well pad construction rules to the CSI. These comments noted the issues with requiring certification by a professional engineer (including making said engineer the party responsible for the well pad construction), adding additional time in the planning and approval process for well pad construction, and additional ODNR review when a modification to the well pad construction plan is needed. In total, each one of these new provisions would add additional time and expense to an already expensive undertaking.

After a CSI review, the rules package is expected to be officially introduced via the Joint Committee on Agency Rule Review (JCARR). JCARR will generally analyze if the proposed rules conflict with the Ohio Revised Code or has an adverse impact on business. Once submitted to JCARR, the OOGA will have the ability to submit additional comments on the well pad construction rules package.
Putting Our Industry’s Water Use Into Perspective

By: Shawn Bennett, Energy In Depth

I

t’s no secret the development of oil and gas requires companies to utilize water for drilling and hydraulic fracturing. In fact, the hydraulic fracturing of a shale formation requires between three and five million gallons of water. While that number may seem to be a lot, it is important to keep in mind some facts and perspective.

Unlike areas with arid climates, annual precipitation in the state of Ohio totals more than 30 trillion gallons, a quantity that more than adequately recharges the local streams, rivers, lakes and aquifers in our state. Water users of all types withdraw about 11 billion gallons of water each day from Ohio streams, lakes, and aquifers – roughly enough to fill a five square mile swimming pool to a depth of 10 feet.

The largest users of water in the state are actually utilities: electric generation uses on average 8.9 billion gallons of water a day in Ohio. Rural and public water systems use 1.6 billion gallons daily.

Utica Shale operators have developed a total of 735 wells in Ohio between 2010 and 2013. During that time, if we estimate that each Utica well used five million gallons for hydraulic fracturing, then total usage would stand at 3.6 billion gallons of water. Over the course of three years, the industry’s total water usage for fracturing operations is the equivalent of one-third of the water that is withdrawn in a single day — truly a very small percentage.

In eastern Ohio, where Utica Shale development is taking place, counties have sufficient precipitation to properly and responsibly operate. In order to estimate how much precipitation falls in the counties where the majority of Utica Shale development is occurring, one must extrapolate how many gallons of water one inch of rainfall creates:

- 1 inch of rain equals 5.61 gallons per square yard.
- 1 inch of rain equals 27,150 gallons per acre.
- 1 inch of rain equals 17.37 million gallons of water per square mile.

Now that we have established the amount of water produced, we can now use that data to establish how much precipitation falls on a per year basis in the shale-producing region of the state:

- Belmont County averages an estimated 42 inches of precipitation per year and is 541.27 square miles in size. Using the formula, Belmont County receives an estimated 95.11 billion gallons of precipitation each year.
- Carroll County averages an estimated 38 inches of precipitation per year and is 398.98 square miles in size. Using the formula, Carroll County receives an estimated 263.47 billion gallons of precipitation each year.
- Columbiana County averages an estimated 37 inches of precipitation per year and is 534.69 square mile in size. Using the formula, Columbiana County receives an estimated 343.84 billion gallons of precipitation each year.
- Guernsey County averages an estimated 40 inches of precipitation per year and is 528.30 square miles in size. Using the formula, Guernsey County receives an estimated 367.27 billion gallons of precipitation each year.
- Harrison County averages an estimated 39.5 inches of precipitation per year and is 410.77 square miles in size. Using the formula, Harrison County receives an estimated 282.00 billion gallons of precipitation each year.
- Noble County averages an estimated 40 inches of precipitation per year and is 404.57 square miles in size. Using the formula, Noble County receives an estimated 281.26 billion gallons of precipitation each year.
Monroe County averages an estimated 42 inches of precipitation per year and is 457.46 square miles in size. Using the formula, Monroe County receives an estimated for an estimated 333.93 billion gallons of precipitation each year.

The total amount of precipitation that falls in the seven most permitted counties is over 2.2 trillion gallons of water per year. **That would be enough water to hydraulically fracture over 440,000 shale wells every year.** In a recent presentation, Dr. Robert Chase from Marietta College estimated that operators in the Utica Shale will only hydraulically fracture 750 to 1,000 wells per year … by 2020. This leaves plenty of water for the residents of eastern Ohio.

Of course, this all has to be properly managed to ensure water withdrawals are done responsibly and with proper care given to competing demand should it arise. Following the passage of Senate Bill 315, permit applications to the Ohio Department of Natural Resources for oil and gas operations must identify the source of groundwater and/or surface water that will be used in a well’s production operations (e.g., hydraulic fracturing operations). They also must specifically state whether the water will be withdrawn from the watersheds of Lake Erie or the Ohio River.

These parameters help establish a baseline to ensure water is withdrawn in an efficient manner without negative impacts to local water supplies.

While water use will remain a hot topic by those who are against oil and gas development, it is important that the narrative surrounding the use of water be kept in the proper perspective. Eastern Ohio is blessed with a significant amount of rainfall each year, which adequately recharges our aquifers, rivers, lakes and streams. By allowing entities to capture and sell this water, municipalities and others are gaining a new revenue stream to help provide funds for their communities and organizations – and doing so will not threaten water use by other industries critical to Ohio’s growth, contrary to claims by activists.

---

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Cost is $450/person and includes a continental breakfast, lunch, an afternoon snack, and a course book.

**Sessions include:**
- April 23, 2014 – Hilton Garden Inn, Southpointe, Canonsburg, PA
- April 24, 2014 – Pittsburgh Marriott North, Cranberry Twp., PA
- May 1, 2014 – The Grand Pointe Conference Center, Vienna, WV

Email info@vavcollc.com or call 724-285-6684 ext. 301 for registration information.
Congress Votes Yea on Hydraulic Fracturing
IPAA Access Magazine Spring 2014

Last November, the U.S. House of Representatives passed H.R. 2728, the Protecting States’ Rights to Promote American Energy Security Act and H.R. 2850, the EPA Hydraulic Fracturing Improvement Act by a bipartisan vote of 235-187. This legislation was introduced by Rep. Flores (R-TX-17), a congressman with oil and gas industry experience.

On a macro level, this is a seminal moment, as it is one of the first times the U.S. House of Representatives has gone on record and recognized the technology that has spurred a promising era in our nation’s energy history. Hydraulic fracturing combined with horizontal drilling, technologies developed by independent producers, have reversed our nation’s energy fortune. And as you may have heard, EIA has announced that for the first time in two decades, the U.S. is producing more oil and natural gas her at home than we are importing from foreign countries. This is thanks to the shale revolution, and the passage of H.R. 2728 affirms this progress.

On a micro level, the content of H.R. 2728 is a rebuke to the Department of Interior’s proposed rule on hydraulic fracturing and well construction on federal lands, set to be finalized next year. IPAA has fought this regulation since it was proposed in May 2011. H.R. 2850 also injects sound science into the EPA’s study on the impacts of hydraulic fracturing on drinking water, which it has been drawing out for years. It would make the study accountable to a rigorous third-party peer review process and make the process more transparent and accountable to the American people. IPAA’s stance is that this legislative package is pro-energy, pro-hydraulic fracturing vote.

And what would be wrong with the federal government regulating hydraulic fracturing? Here’s the problem: the states are already doing it. In fact, they are doing a fantastic job and have done so for more than a century. States are even continuously updating their regulations. Of the approved permit applications to drill on federal lands, 98 percent were in seven states. Six of those seven states have updated their regulations, and the seventh (California) issued a regulation addressing operations standards and fluid disclosure in December 2012.

In the press release applauding the U.S. House of Representatives vote, IPAA President Barry Russell stated:

“This legislation, H.R. 2728, safeguards natural gas and oil development on federal lands by empowering states to regulate energy development, as they have been doing safely and responsibly. The long history of effective state regulation demonstrates that a one-size-fits-all federal requirement is unnecessary and will not increase environmental protection.”

We’ve seen what happens when the federal government gets involved in plans that are already working. We don’t want that to happen in the energy sphere, and we don’t want to jeopardize the shale revolution.

IPAA has thus argued in its official comments to the administration that this is an unwarranted rule—a rule in search of a problem. The Department of Interior has yet to point to any systemic problems in the states’ regulation of hydraulic fracturing. The implications of the bureaucratic burden are large. In fact, IPAA and Western Energy Alliance commissioned a study this summer, which demonstrated that the rule would cost $96,913 per well for a cumulative annual cost of $345 million.

Not only would it hurt independent producers, further driving them from federal lands, but it would cut jobs and energy supply. Last year, Interior announced it received $14.2 billion dollars from energy production on public lands and offshore. This is money that goes to our children’s education, infrastructure, and national security efforts. Decreased oil and gas production resulting from this rule would limit revenue to the U.S. Treasury, further constraining federal budgets.

That’s why the vote on H.R. 2728 and H.R. 2850 were so important and why IPAA spend so much time educating legislators and their staff in the House on the importance of hydraulic fracturing and this legislative package. Outside groups varying from the National Association of Manufacturers to Heritage Action weighed in, echoing IPAA’s call that a vote for H.R. 2728 was a vote for energy, national security, jobs, and growth. It was a vote for hydraulic fracturing. IPAA urged our membership to tell their congressman to vote for this bill, and we also scored the bill.

Yes, it’s unlikely that it will go anywhere in a Democratic-controlled Senate. But 13 Democrats (mostly from shale states) voted for the legislation, which shows that those who are familiar with hydraulic fracturing have nothing to fear. It shows that IPAA’s education campaign, Energy In Depth, and its efforts to educate about the safety of hydraulic fracturing are gaining traction. And despite his praise of the shale revolution, the president has threatened to veto if it crossed his desk.

But this legislation passed by the U.S. House of Representatives sends a message that hydraulic fracturing has reversed our nation’s energy fortune and that it is safe. It sends a message that the American people are the collective owners of federal lands, not bureaucrats in Washington. It puts the U.S. House of Representatives, the body most directly accountable to the American electorate, on record as saying, “If the states like their energy plans, they can keep them.” If given the chance, we think they will. Thank you to those members who voted for this legislation.
Utica Shale

Ohio Map of Utica Shale Activity

Provided By: MacKenzie Land & Exploration Ltd.
Please provide a timeline of your career in the oil and gas industry.

Actually, I got into the oil and gas business through my Mom. She was a Brownie leader and my younger sister was a Brownie, and she went to a meeting and one of the other leaders told her that her husband needed someone to clean his shop, he owned an oilfield service company. I think I was 15 years old, which would have been 1970, and I went down there. I swept his shop, he had a hot oiling service and he owned some producing wells. Once I got my driver's license I started running a hot oiler and gradually started pumping wells for him while I was in high school. I then went to Stark State Technical College for two years. This was all about the time of the Arab Oil Embargo in 1973 and the price of oil went from six dollars a barrel to eleven dollars a barrel, so Mom says, “This is the business you need to stay in”!

I was pumping wells in East Canton that were owned by Joe Cherry of Petrocon while I attended Stark Tech. Once I finished my Associate's degree, I decided I wanted to stay in the oil business because it was really booming back then. I went to Marietta College and got my Bachelor’s degree in Petroleum Engineering. I would go home to run the hot oilers and make a few bucks—it was great times then. I graduated in 1978, and the second oil crisis was in 1979. The price shot up even further, so there were more opportunities. Once I graduated, I went to work for Witco Chemical, which is the company that owned the Kendall refinery. Kendall had wells here in Ohio that they had bought from Texaco. So I came back to Canton, close to home, and worked for Witco as a petroleum engineer. It was a real learning experience. They purchased these wells from Texaco and, of course, Texaco came to Ohio because the Clinton formation looked like it was going to be a real oil boom. They did this massive hydraulic fracturing on the wells that really intrigued me. They basically would take a Clinton well and would build a lake to put the frac water in and then they'd pump on these wells until the lake was empty or the trucks broke down. These were huge frac jobs.

I now work for Dorfman Production Company. It's a Dallas-based, family-owned oil company that was formed in the 1930s by Sam Dorfman Sr. He and his family came to Ohio in 1966 and drilled eight or ten wells, and actually Witco Chemical was the contractor taking care of their wells for them. They asked me to be in charge of taking care of their wells because at the time they weren't very happy with their current care. That's where I started my relationship with the Dorfman's. I only worked for Witco for about a year and a half then I joined up with Joe Cherry and we started taking care of these Dorfman drilling and completions, and I've worked for them ever since. I'm the Vice President of Operations. I take care of all the activity in Ohio. They are a great company and we’ve had some good successes.

What would you say the key is to you and your company's success and longevity?

Dorfman is from Texas—and everything is big in Texas. I'd say one of our big successes in Ohio has been being a leader in the size of our frac jobs that we did on our wells. When I first started taking care of their wells, they were doing these, (what I call) relatively small jobs, which were 1,500 barrel frac jobs. They obviously let me increase the frac jobs and play with the frac jobs. I think we still hold the record for the largest frac job pumped on the Clinton in Ohio. We did a 10,500 barrel frac with 700,000 pounds of sand on the Clinton in 1982. We were experimenting with how big a frac job should be. We kind of determined that was a little bigger than we needed, so we stayed with about 7,500 barrel frac jobs and developed a pretty substantial field up in Mahoning and Stark counties. I think we were noted for the size of our jobs and also that our oil production was pretty substantial.

What are some challenges you have faced over your career?

The biggest challenges have been the commodity prices. When I started in the 1970's, we had the Arab Oil Embargo, we had the second oil crisis in 1979, then we had the oil glut in the early 1980's, and in about 1986 the bottom fell out. Crude oil was down to (I think) nine dollars and some cents. These Clinton wells just can't make any money with nine dollars. Gas got pathetically low. The biggest challenge was keeping things going. We had a number of years where we were just trading nickels and trying to keep all of the employees on. It went on from about 1986 to 1999—about a thirteen-year run of terrible prices. There were a couple spikes in there with Desert Storm and such. We kept things going, we've never laid anyone off; we kept everyone working. Then when oil prices started turning around, we got back on the stick and started drilling again. We've probably drilled close to a hundred wells since 2003.

How has the emergence of shale in Ohio affected you?

We'd love to be drilling, but getting locations and easements are pretty tough at this point. So we're looking at other
avenues, trying to join up with some other producers to try to maybe drill in between our units and work through these new regulations. Besides the commodity prices, it’s just been this ever increasing regulation scene.

**Why did you get involved in the Ohio Oil and Gas Association?**

I came to my first meeting in 1977 and I just realized—that was 37 years ago! I haven’t missed a meeting since ’77. When I was in college in 1977, my friend Joe Cherry invited me to come to an OOOGA meeting. OOOGA was the place where we got all of our information. We didn’t have this instant media we have now. We didn’t have cell phones. I actually put phones out in the field in storage buildings so I had places to go call, especially in the middle of the night when we were drilling.

OOOGA always presented the legislative issues—that was the big thing. We’d read the Bulletin cover to cover, it was our real media. Over the years obviously OOOGA has helped and guided us through this and represented us in these legislative changes. The first big one I remember was in 1982 or 1983, House Bill 501, dealing with water disposal. It changed the way we handled our water. We’ve always used a large volume of water in our frac jobs, so we started a recycling plan back then. We just couldn’t take fresh water and dispose of it every job because we were using 7,000 barrels a frac job. We really had a good repertoire with the townships back then, we were spreading it for dust control in the summertime and they loved it. We only drilled in the summertime, we had that luxury, so we’d actually go pick up a township guy and he’d get in the truck with my water truck driver and they’d go spread the water on the roads, instead of oiling them. H.B. 501 changed things, we had to build a disposal well. We have our own disposal wells and take care of our own production water.

**How did you decide to become more than just a member of OOOGA and get involved in the Board of Trustees?**

You know, we’ve been very busy over the years and I have a great staff and now I have a little more time since we haven’t been drilling so much. I was asked to be a trustee, was put on the ballot, and I guess I know some people in the Association, because I got voted in! I was just recently appointed to the Technical Advisory Commission and actually had my first meeting last November. I’m enjoying that because I get to put my two cents in on some of this rulemaking.

**Do you have any advice for those trying to break into the oil and gas industry?**

When I started, I was the kid in the group. There was all these older guys and we had such bad times from about 1986 to 2000 that no one was coming into the industry, so there is a big space between my age and the young people coming in. I’d tell them I love the oil and gas business, it’s been great. Prepare yourself for what’s to come because these anti-development groups are unbelievable. But it’s a great business, there is great camaraderie among the members. It’s intriguing—everyone is interested in it. It kind of cracks me up when people ask me if I’m involved in this new “fracking” thing. They don’t understand it at all.

**Do you have any involvement in the community related to oil and gas?**

We have six injection wells to take care of our water and some other legacy producers’ water. We just permitted a well in Mahoning County where there has been some controversy over injection wells. People asked, “How did you permit that well?” It turns out that well is only about a thousand feet from my house. I know all of the neighbors and none of them objected. They figured, if I’m putting it that close to my house, a home I’ve lived in for 27 years, it has to be okay. I put the well in and used it to educate. I had a class from Youngstown State down to tour it and Rhonda Reda of the Ohio Oil and Gas Energy Education Program set up a teacher workshop field trip to come. About 50 to 60 teachers came down and they were very receptive, it went really well. There were a couple questions over whether I was worried about the well affecting the groundwater, and I told them I wasn’t and showed them the log and explained how we cemented the casing. Then I showed them that I lived nearby, surrounded by my friends and neighbors and said, “Do you think I’d pollute the neighborhood?” It went really well. In fact, a woman was working on her master’s degree and has come back to the well several times, even bringing her professor to ask questions.
The Ohio Oil and Gas Association would like to give a special thanks to our sponsors for helping make this event a huge success.

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Shale Development Rejuvenates Rail Industry

By: Anne Carto, Communications Coordinator

As Utica Shale development marches on, so does the need for midstream capabilities. While many processing facilities and pipelines have come online in the last year, Ohio is still waiting on more capacity and the ability to fully produce our geology. While these facilities come online, transportation is needed to get product to market, and, once more product is processed, that product will need to get to the consumer. To meet this demand, the rail industry has stepped in and become a natural fit.

When Ohio’s shale development first took off, rail saw an uptick in business from transporting drilling fluids and other necessities for actual production. Companies like Norfolk Southern and Genesee & Wyoming Inc. took advantage of the opportunity to move large volumes of material. The transportation of large volumes of material requires stringent regulation. Since the rail industry has a long history of transporting such material through, regulation and safety measures are already in place.

The industry’s long history also means utilizing the established and extensive network of rail lines throughout the country. While companies are still waiting on midstream capabilities throughout the region, rail is filling in. Piping networks take both time and substantial investment. Without pipelines, companies have had to find another way to move large volumes of product to refineries and processing facilities. Their answer has become rail.

Rail companies have also helped develop new midstream capabilities. At the new Scio plant, the Columbus & Ohio River Rail Road Co. (CUOH) developed a mile-long route to serve the plant. The route is expected to ship more than 10,000 carloads of natural gas liquids (NGLs) each year. CUOH is also rejuvenating their own infrastructure by rehabilitating a three-mile storage track and spending $2 million to upgrade its main rail yard in Newark under expectations of more shale related business.

Just recently, an affiliate of MarkWest Energy Partners, a big player in the region’s midstream activity, completed the purchase of the Youngstown & Southern Railroad (Y&S) that runs from Youngstown to Darlington, PA. MarkWest recently constructed the processing and fractionation plant near Scio that receives natural gas from the collection and processing plant in Kensington. The sale of Y&S could mean MarkWest has more infrastructure planned.

The uptick in rail activity from shale isn’t only in the Buckeye State. According to RealClearEnergy, rail shipments of oil are up more than 8,000 percent since 2006 in the United States largely due to shale energy. New rail ports are popping up in the Eagle Ford in Texas and the Bakken region is transporting most of the oil extracted by rail:

“Crude oil production has nearly doubled, from a declining 1.875 million barrels … to 2.3 million in 2012 (2013 figures are not yet available). That’s a result of the unlocking of shale oil, both in the Bakken and in several fields in Texas. But right along with it has gone the increase in oil traffic, since nearly all the Bakken oil is finding its way out of North Dakota by rail.”—(Rail Shipments of Oil Up 8,000% Since 2006, 2/3/14)

With more processing and midstream projects seeing their completion, leading to more production, it’s clear this won’t be the last news of revitalization to one of the country’s oldest forms of transportation.
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Gasland, Russia and Hysteria Regarding Hydraulic Fracturing

By: Ambassador Keith C. Smith

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THE POLITICS

On several occasions in late 2013 and early 2014, Russian officials have warned Europeans against following the U.S. lead in exploiting domestic natural gas and oil. Moscow has warned Europe that hydraulic fracturing (fracking) is a substantial danger to the environment and to public health. The irony of this is that Russia itself has been engaged in fracking for several years in Western Siberia and is now using technology acquired from Western companies such as BP to increase the use of vertical and horizontal drilling to extract gas from shale deposits. The obvious explanation for Moscow's warnings is an attempt to prevent Europe from developing gas and oil sources, thereby reducing Russian's near monopoly position in supplying gas to Europe, and especially to the Central Europeans, who are most vulnerable to politically motivated disruption of shipments from Russia.

Major environmental groups in Europe, particularly in France and Germany, have taken to heart Russian warnings, and also those of American self-described environmentalists, such as Josh Fox, the producer of Gasland I and Gasland II. Both of these films are filled with unproven assertions that there is scientific evidence that fracking is a major danger to the environment. The Gasland films have been circulated widely in Europe, including twice in the European Parliament. Every anti-fracking claim made by an American group, no matter how tenuous the scientific evidence, is quickly repeated by European opponents of fracking, and then carried over European television networks through the RT (Russia Today) channel. RT receives its editorial guidance directly from political advisors in the Kremlin.

Russian television regularly highlights and promotes opposition to fracking, particularly when carried out by Western firms outside of Russia. Apparently, the use of fracking technology by Russian firms is apparently safe and effective when approved by the Kremlin. A respected Russian economist, who must not understand the Kremlin's political line, was recently quoted as saying, “Do you know what is now helping Russian gas in Europe? It is the European environmental lobby, which insisted on freezing the development of shale gas resources, thus restraining the growth of domestic production in Europe. Why the Europeans agreed to this, I do not know the answer. It is difficult to understand.” Such honesty by a Russian technocrat is in major contract to the political line of the Kremlin and that of Russia's gas monopoly exporter, Gazprom.

The supporters of hydraulic fracturing (fracking) have been surprised by the amount of fear and hostility that exists in parts of Europe regarding this relatively safe method of extracting a source of energy that emits significantly less carbon and other pollutants than does coal or diesel fuel. There have been noisy demonstrations in every European country where fracking has been attempted. Opponents are traveling from one country to another in order to protest, usually against the operations of Western companies. Bulgarians have journeyed to Romania, and now Russians are demonstrating in eastern Ukraine. Funding for protest rallies is flowing to Central Europe from groups in Western Europe where fracking is not even being considered.

Fracking opponents are also bolstered by support from domestic coal and nuclear industries, who also fear that their future is endangered by the possible production of cheaper and cleaner forms of energy. The hysteria regarding the relatively safe form of energy production has already resulted in fracking bans in France, Germany, the Czech Republic, Italy and Austria. Opponents have also come close to achieving a ban on fracking by the EU Commission’s Directorate General for Environment. Fortunately, opposition from Poland, the UK and the Czech Republic (that maintains a ban) was sufficient to stop an effective ban from being put in place.

Much of Europe is plagued by the failure of fracking critics, including government officials, to stay abreast of the fast-improving technologies that make exploration and development cleaner, less a burden on water and land use and more productive. Figures cited in Europe regarding U.S. methane emissions are often either based on old technology or have been discredited by more recent studies by the Environmental Protection Agency. Too many special interests or poorly informed individuals are willing to grasp at any charge, no matter how false, regarding the alleged dangers that arise from fracking.

THE ECONOMIC IMPACT

The impressive growth in output of natural gas (and oil) is due to a commercial climate that encourages risk taking and is facilitated by America's unique property laws and minimal government regulation. Five years ago the United States imported 13% of its natural gas and 57% of its crude oil. Today, the figures are quite different. The U.S. is almost independent of gas imports at only 8%, its oil import dependence has dropped to 45% for crude oil, and imports continue to decline each year. It is estimated by reliable sources that CO2 levels have dropped 12% in that time, with
major reductions in sulfur dioxide and mercury emissions, chemical elements that are especially harmful to public health. The levels of small particulates from coal, that cause serious lung diseases has also decreased dramatically.

The economic benefits have been substantial. Employment in the energy sector is estimated to have increased dramatically as a result of massive investments in fracking operations. Growth has come to previously economically poor areas of the country, from North Dakota to Texas. Within the last five years, the unconventional energy industry has directly supported approximately 360,000 jobs, and indirectly supported employment of 350,000 people in supplies and 850,000 in goods and services. In total, the fracking boom has been responsible for securing 1.7 million jobs in the United States. Meanwhile, the U.S. trade deficit as a percent of GDP shrank from 6% in 2005 to 2.7% of GDP by mid-2013. Several large industrial firms are moving to the U.S. from Europe and Asia in order to benefit from significantly lower U.S. energy prices.

Natural gas prices are 3-4 times higher in Europe, and 5-7 times more costly in parts of Japan and Korea. Crude oil prices in the U.S. now range from $15-20 cheaper than in Europe and Asia. Increased gas production in the U.S. has already improved the bargaining power of many import dependent countries in Europe. Within the next few years, the U.S. will become a natural gas exporter, and this will have provide additional benefits to those countries dependent on energy imports – approximately 90% of Europe. Asian countries should also profit directly and indirectly from the increase in available supplies of LNG on the world market. The one downside is that although most of Europe is already benefiting from the “fracking revolution,” increased U.S. crude oil production and the greater output of product from new and enlarged refineries, is hastening the closure of at least a dozen obsolete European refineries. Some European refineries will be unable to compete with U.S. refiners, even taking into account shipping costs. Many European industries that depend on energy inputs will also be at some disadvantage due to relatively higher energy costs. For example, the German chemical giant, BASF, is already moving plants to the U.S. in order to capture cheaper energy prices.

ENVIRONMENTAL IMPACT

Investment in solar and wind energy has soared in the U.S. at the same time as hydrocarbon production has increased. Large solar fields are being constructed in California and Arizona, and the output of wind energy is increasing rapidly in the mid-West, Texas, and off the East and West Coasts. Yes, the U.S. still produces more than its share of green-house gases, but the gap is quickly narrowing. The major effect of fracking has been to reduce imports and lower harmful emissions. This has occurred through replacing coal-fired power plants with gas generators that emit half as much CO2, no SO2 or mercury. In addition, gas does not spew out the particulates that are so damaging to public health. There is no evidence from the American experience to show that the development of renewable energy is being held back by increased natural gas production.

In the U.S., significant advances in energy efficiency have taken place, particularly in the transportation sector. Without advances in energy efficiency and the production of renewables, natural gas prices in the U.S. would be significantly higher and no one would be talking about gas exports from America to Europe and Asia.

At the same time, however, Germany is now importing coal from the U.S. that is no longer needed as coal is replaced by gas as the fuel of choice for new and modified power plants. Taking into account government subsidies for renewable energy, German energy costs are substantially higher than many other EU members. Meanwhile, Europe remains dependent on high-priced Russian natural gas and Poland will soon be importing Qatari gas that is even more expensive than that from Russia.

The eventual implementation of the Third Energy Package will help modify Russian prices, but gas import costs will continue to remain much higher in Europe, especially if protesters are able to stop exploration and development projects. Europeans opposed to fracking need to ignore the voices of doom regarding hydraulic fracturing and do a thorough job of examining the latest science and best practices concerning the environment and health effects of this method of hydrocarbon extraction. Even Russia, which actively discourages Europe from engaging in fracking, is at the same time ramping up the use of this technology in its West Siberian fields. The strong opposition within Europe to fracking should be resisted by the countries directly affected. For one thing, Russia charges Central Europeans at least 50% more for gas exports than it does in many Western European markets; countries that already have easier access to imports from other sources. It is not by accident that the Nord Stream and South Stream pipelines were designed to by-pass Central European countries that pay the most for Russian gas. These pipelines provide political leverage, not increased efficiencies, profit for Russia, or price reductions for importing countries. It is no coincidence that Russian officials are warning of the “dangers” of hydraulic fracturing, even though they support it at home.

In summary, unsubstantiated fear of hydraulic fracturing that is being promoted in much of Europe threatens to keep the region dependent on powerful and nontransparent foreign economic and political interests. The reaction this fear should be a more widespread education regarding the best science and actual field experience.
At the 2nd Annual Crain's Cleveland Business Shale Summit held near Cleveland, Association President David R. Hill and Executive Vice President Tom Stewart spoke about the opportunities and opposition concerning Utica development at the half day conference. Tom was the morning keynote speaker, addressing a crowd of 300 business and community leaders from the northeast part of the state, providing his take on what is, and perhaps more importantly, what is not happening with shale development. Mr. Stewart took a wide range of questions after his speech concerning “the oil window” and tactics to combat baseless claims made by the anti-development crowd.

Some of his key topics included the activity in counties of focus such as Carroll, Columbiana and Harrison, as well as how exploration and development have lowered unemployment and raised sales tax collections across southeastern Ohio. He also updated the audience on how the industry continues to create and save jobs across the state, referring to the State of Ohio’s Department of Job and Family Services recent report citing over 168,000 jobs connected to the industry.

Tom concluded his remarks by reporting on House Bill 375 and what he expects to happen over the next few weeks.

In the afternoon, David Hill took to the microphone with Dr. Bob Chase of Marietta College and Jack Shaner of the Ohio Environmental Council for a panel discussion titled, “Energy or the Environment – do we have to choose.” This was one of four different panel discussions held in the early afternoon, but by far drew the most attendance. Perhaps some were looking for a knockdown, drag out fight between OOGA and OEC, while others simply wanted to hear about production from Marietta College. While the conversation was polite and informative, none left disappointed about the information shared concerning natural gas development.

The panel all cited study after study to make their case as to why we should or should not be concerned about shale development. Mr. Hill did a great job of explaining, and correcting when he had to, what is fact and what is fiction when talking about oil and gas production. In the end the bottom line was clear, “Bill and Betty Buckeye” can continue to have access to both affordable and reliable energy and a clean environment.

Tom and David gave great fact-based presentations addressing concerns and answering questions about the oil and gas industry, making the event a great success and educating the hundreds in attendance. It was good to see OOGA members Bruce Levengood and Bill Kinney in attendance.

OOGA looks forward to participating next year!

For more coverage of the Crain’s Cleveland Business Shale Summit, please visit CrainsCleveland.com.
OSHA Mandated PPE Hazard Assessment and Selection

By: Chris Irwin, Safety & Risk Consultant

OSHA mandates that employers keep their workplace safe and healthful for their employees through a large number of different regulations that span many industries, including General Industry and Construction. In every case, the first goal of OSHA is for the employer to eliminate the hazard from the workplace through engineering or work practice controls so that the worker never comes into contact with it in the first place. However, often this is not feasible, and the last line of defense—Personal Protective Equipment (PPE)—must be considered.

PPE comes in many forms and is specially designed to protect a specific part of the worker’s body from a certain degree of hazard. Generally speaking, companies manufacture equipment that could cover a worker from “head to toe,” including everything from hardhats, safety glasses, earplugs, and respirators for the head to gloves, protective apparel, and boots for the rest of the body. However, before the employer resorts to this final method of control, they need to realize that there are certain requirements they must meet to be in compliance.

The first OSHA requirement, one that is often overlooked, is the need for the performance of a “hazard assessment” on the part of the employer. This is the point that the actual hazards in the environment are identified and analyzed in order to give the employer a clear picture of what protection will be needed. Obviously, not all PPE is built for the same types of hazards. Even in one PPE category, such as gloves, a particular type of glove may work well in one situation, but not at all in a different one. For this reason, OSHA expects the employer to make sure that it is providing the appropriate protection after having carefully considered all of its options. Once this has been completed, the employer must additionally document its efforts through a written certification that identifies (1) the workplace that was evaluated, (2) the name of the person who conducted the assessment, (3) the date of the assessment, and (4) a statement to the effect that the assessment has been completed.

Once the assessment has been done, the job of the employer is only partially complete. Next, the equipment must be assessed on a worker-by-worker basis to verify proper fit and functionality. Although this becomes extremely clear in portions of the PPE standard such as that for respirators where a medical exam and a “fit test” is required before the worker may begin to work in the equipment, the principle holds true for gloves, safety glasses, and hardhats just the same: the equipment must fit correctly if it is to protect and must protect to the level of hazard that will be encountered. In the words of OSHA, “If PPE does not fit properly, it can make the difference between being safely covered or dangerously exposed. It may not provide the level of protection desired and may discourage employee use.”

Finally, once the equipment has been selected for its protection capabilities and workers have “donned” it to determine proper fit, the last initial responsibility of the employer is to train the employee on when PPE is necessary, what specifically is needed, how to wear it (including donning, doffing, and adjustment), its limitations, and how to properly care for it to ensure necessary service life. If the employer has taken the time to carefully select the equipment, it is now their responsibility to make sure that this knowledge is passed on to those who will actually be protected by it.

For additional compliance assistance, contact RiskControl360° by email at info@riskcontrol360.com or by phone at 1-877-360-3608.
In Memoriam

Phillip Joe Dever

Phillip Joe Dever, 65, of Norwich, Ohio passed away Thursday, March 26, 2014 at Mt. Carmel West, Columbus. He was born on May 25, 1948, in Findlay, son of Frank and Lavon (Kraut) Dever. In addition to his parents, he was preceded in death by his son, Joseph Patrick Dever.

Mr. Dever and his wife owned and operated Devco Oil Inc, in Cambridge, Ohio. He was a longtime member of the Ohio Oil and Gas Association, joining in 1976. He was inducted in the Ohio Oil & Gas Association’s Oil and Gas Hall of Fame in 2010. Mr. Dever enjoyed golfing and was an avid fan of the Ohio State Buckeyes. He served in the U.S. Navy from 1968-1970.

Dever is survived by his wife, Linda Kay (Morrison) Dever of 45 years; one son, Todd Dever, and his wife Cassie; two granddaughters, one grandson, one sister, and many extended family members and friends.

Press Releases

O-Tex Pumping Develops Cement App As a Quick Reference Tool

Creation of a cementing tools application proving to be a useful reference tool for anyone in the oil & gas industry needing to calculate cement volume, desired displacement or capacity calculations quickly

MIDLAND, TX, February 24, 2014 – O-Tex Pumping is excited to announce the release of their new Cement Tools App for both Apple and Android mobile devices. Designed to be a quick reference tool for oil and gas professionals the Cement Tools App allows users to calculate cement volume, displacement figures or capacity calculations quickly.

The Cement Tools calculator works with one slurry at a time in one section at a time. It does this in order to keep the user interface as simple as possible so that it can be utilized discreetly if the need arises. It is divided into two sections: “Open Hole” casing inside of an open hole annulus and “Cased Hole” casing inside of a cased hole annulus or pipe in pipe. Each of these asks for the bottom of the cement, top of the cement, percent excess and slurry yield in order to calculate the total sack volume needed to fill the specified annular section.

The Cement Tools calculator also displays the annular volume conversion factor of the specified annulus for the quick reference of any one who may need them. It will display barrels per linear foot, linear feet per barrel, cubic feet per linear feet, linear feet per cubic feet, gallons per linear foot and linear feet per gallon.

By selecting the casing size, the calculator will return the capacity of the hole size or outer casing specified. For example, in the “Open Hole” section, selecting a 17 ½” hole size and then selecting Open Hole for the casing it will return the annular conversion factors needed to calculate the capacity of the hole, as would be needed if setting a whip stock plug.

The displacement section calculates the needed displacement for a given tubular size. Entering a tubular size and tubular weight, the calculator will return the annular volume conversion in barrels. By entering a depth or length of tubular to displace, it will calculate the total number of barrels needed to complete the operation.

While there has been a vast amount of positive feedback for this application, there has been just as many requests for additional functionalities. O-Tex Pumping is already developing additional functionalities to accommodate the needs of their valued customers and colleagues.

The O-Tex Pumping Cement Tools App version 1.0 app is now available in the iTunes and the Google Play Stores! To download in your store, search “o-tex” or visit www.otexpumping.com for the direct links.

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OOGA OFFERS NEW BENEFIT OPTIONS FOR MEMBERS AVAILABLE JANUARY 1ST 2014

OOGA has partnered with DAWSON Companies & BOST Benefits to offer New Benefits to members and their families January 1, 2014. Detailed information on each plan will be included in your benefits packet mailed the first week of November. Your packet will include instructions on how to enroll through a special OOGA call center or by using the forms provided in your enrollment kit.

New benefits include:

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Visit oogsc.org for membership information.
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Black Diamond Rental is the region's premier leader in the equipment rental and service industry, offering 24/7 service, giving us the ability to customize our services to fit our customers’ specific needs.

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## Ohio Oil & Gas Association Events

For the latest information on these and other events, including how to register, go to www.ooga.org

### August

**2014 OOGA Summer Meeting and Oilfield Patriot Award Ceremony**  
August 4-5, 2014  
Zanesville Country Club

### December

**2014 Oilfield Expo**  
December 2-4, 2014  
International Exhibition (IX) Center, Cleveland, Ohio

## Industry Events

Contact Anne Carto at anne@ooga.org or Pete McKenzie at pete@ooga.org to submit an Industry Event to be included as a calendar item.

### March

**2014 Ohio Safety Conference**  
Ohio Bureau of Workers Compensation  
March 25-27, 2014  
Greater Columbus Convention Center  
www.bwc.ohio.gov

**Ohio Gas Association 2014 Technical Seminar & Affiliate Display**  
March 27-28  
Columbus Marriott Northwest  
Register at www.ohiogasassoc.org

### April

**NAPE EAST Expo**  
April 9-11, 2014  
David L. Lawrence Convention Center, Pittsburgh, PA  
www.napeexo.com

**AIPG 5th Annual Conference – Marcellus, Utica, and Point Pleasant Shale: Energy Development and Enhancement by Hydraulic Fracturing**  
April 16-17, 2014  
Holiday Inn Columbus Downtown Capital Square  
175 East Town Street, Columbus, OH 43215  
www.aipg.org

### May

**Oil & Gas Basics Seminar Presented by Matt Vavro of Vavco LLC**  
May 1, 2014  
The Grand Pointe Conference Center, Vienna, WV 26105  
For more information and to register visit www.vavcollc.com

**2014 Eastern Oil & Gas Conference and Trade Show**  
May 13-14, 2014  
Heinz Field – Pittsburgh, PA  
Learn more at www.pioga.org

### July

**Ohio Gas Association 2014 Annual Meeting**  
July 14-15, 2014  
Columbus Hilton at Easton  
Information coming on www.ohiogasassoc.org

**Ohio Gas Association 2014 Market Conditions Conference**  
July 15-16, 2014  
Columbus Hilton at Easton  
Information coming on www.ohiogasassoc.org

**2014 Pig Roast, Equipment Show and Conference**  
July 22-23, 2014  
Seven Springs Mountain Resort - Champion, PA  
Learn more at www.pioga.org
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*Note: Oil prices only. Some postings do have transportation adjustments.*
Crude Oil Prices
NYMEX v Ohio Wellhead Posted Prices
March 2013 – March 2014

Settle Price, Crude Oil
Light Sweet
New York Mercantile Exchange (NYMEX)
Sunday, March 9, 2014
$ per Bbl

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Natural Gas Index Pricing
NYMEX Close & Appalachian Index
March 2013 – March 2014

Settle Price, Natural Gas
New York Mercantile Exchange (NYMEX)
Sunday, March 9, 2014
$ per MMBtu's

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2014 Gas Index Prices

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Buying Local Production
• Competitive Pricing
• Producer Hedging Services
Mark Sackett
Fuels Trader
470 Olde Worthington Rd
Westerville, OH 43082
Phone: 614-797-4396
mark.sackett@exeloncorp.com
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