The SOOGA 2014 Annual Spring Membership Meeting was held April 25, 2014 at the Quality Inn in Marietta, OH. In the morning session, State and Federal issues were presented for Ohio by Congressman Bill Johnson, State Representative Andy Thompson and Dave Hill, OOGA and for WV by Char-lie Burd, IOGAWV. Shawn Bennett, Energy in Depth, talked of industry opposition, while Rhonda Reda gave an OOGEEP update. Dana Harsh-barger, Marietta College student, presented the Paul Fulton Scholarship winning presentation, “The Impact of Spacing Stages in Perf Completions in the Southeastern Ohio Marcellus & Utica Shales.” The afternoon session started with Matt Lupardus, Artex, giving a Utica Drilling Activity & Production Update, followed by Steve Downey, Enervest, Getting the Midstream Picture. Brent Breon, Blue Racer, and Mack Smith, DEO, updated the Blue Racer System and DEO Liquid Uplift Projects. Andy Hess, Integtrys, finished the meeting with Natural Gas Pricing and Basis Differentials.

WV Online Tank Registration is Open!

Implementation of the Aboveground Storage Tank (AST) Act can be found at the WVDEP website: www.dep.wv.gov

“DEP is working to implement the recently passed Senate Bill 373, which includes new AST registration/inventory requirements and legislative rule-making for many topics, including permitting, inspection, etc. All ASTs included in the bill’s tank definition must be registered by Oct. 1, 2014. Several other important AST regulatory deadlines were also set forth in the bill.” For detailed information, go to www.dep.wv.gov and click on the tab at the bottom of the page.
The storage injection season is in full swing, storage is 40.3% full, and the gas market has held its own the first couple of weeks of June, moving up into the mid $4.40 range for July, 2014. With the June DTI Index posting at $3.31 and TCO index posting at $4.58, we are seeing July, 2014 trading in the $4.40 to $4.65 range at the time of this article, June 23, 2014. This market is still somewhat volatile, waiting on additional longer term weather forecast and positive economic news that may impact pricing, as well as production numbers to ensure that storage injections will remain on schedule.

Our membership is growing as the Utica Shale brings more producer and support companies to Ohio and our Southeastern Ohio area. In December of 2013 SOOGA had 419 members. We are currently at 491 members and growing. The board and the Association appreciates the participation of all of our members in our activities, and look forward to your participation in our Open Forum meetings, membership meetings, clay shoots, trade show, and golf outings throughout 2014.

The SOOGA Spring Golf Outing was held at Oxbow golf course, with nearly 130 registered golfers. It was a perfect day for golf, prizes were awarded, and everyone enjoyed the day. Your association should make a profit on this outing to enable us to continue to provide training and service to our membership.

Don’t forget about our SOOGA Legacy Fund, which enables your association through your donations to help our communities with local education programs in the energy field, scholarships for students, community center improvements, gas assistance programs, and to help local law enforcement be prepared and ready to respond to oil and gas related accidents. Please consider donating to this fund, no matter how small the donation might be, as it will help us continue this great program.

Jim Javins,
SOOGA President
2014 NEW MEMBERS
SOOGA would like to welcome the following new members:

<table>
<thead>
<tr>
<th>Name</th>
<th>Category</th>
<th>Address</th>
<th>City, State Zip</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>BRADLEY LOEBER</td>
<td>Allied-Associate</td>
<td>Michael Bradley 414 Greene Street</td>
<td>Marietta, OH 45750</td>
<td>740-373-8126</td>
</tr>
<tr>
<td>ALLEN TENNANT</td>
<td>Allied Industry</td>
<td>Michael Bradley Apparatus 116 Industry Road</td>
<td>Marietta, OH 45750</td>
<td>740-374-6255</td>
</tr>
<tr>
<td>BRAD WEBB</td>
<td>Allied-Associate</td>
<td>Michael Bradley Apparatus 116 Industry Road</td>
<td>Marietta, OH 45750</td>
<td>740-374-6255</td>
</tr>
<tr>
<td>BOB PERRY</td>
<td>Contractor</td>
<td>IMAC Systems, Inc. 726 Miami Heights CT</td>
<td>Loveland, OH 45140</td>
<td>513-335-4517</td>
</tr>
<tr>
<td>SCOTT WARD</td>
<td>Professional</td>
<td>Wards Recycling 27430 St. Rt. 7</td>
<td>Marietta, OH 45750</td>
<td>740-374-2552</td>
</tr>
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</table>

2014 SOOGA Calendar of Events
Tentative Schedule

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Golf Outing</td>
<td>August 22nd, 2014</td>
<td>Lakeside Golf Course - Beverly OH</td>
</tr>
<tr>
<td>Ergon Fish Fry</td>
<td>September 17th, 2014</td>
<td>Marietta Trucking Terminal</td>
</tr>
<tr>
<td>Trade Show</td>
<td>September 18th, 2014</td>
<td>Oil Haulers, LLC (The old Carter Lumber Building)</td>
</tr>
<tr>
<td>Fall Clay Shoot</td>
<td>October 17th, 2014</td>
<td>Hill Top Sports—Whipple OH</td>
</tr>
</tbody>
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Southeastern Ohio Oil & Gas Association Board of Trustees - 2014

**OFFICERS**

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
<th>Company</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>President</td>
<td>Jim Javins</td>
<td>Integrys Energy Services</td>
<td>614-844-4308</td>
</tr>
<tr>
<td>Vice President</td>
<td>Matt Lupardus</td>
<td>Artex Oil Company</td>
<td>740-373-3313</td>
</tr>
<tr>
<td>Past President</td>
<td>Gene Huck</td>
<td>Artex Oil Company</td>
<td>740-373-3313</td>
</tr>
<tr>
<td>Treasurer</td>
<td>John Albrecht</td>
<td>Green Hunter Water</td>
<td>740-373-4599</td>
</tr>
<tr>
<td>Secretary</td>
<td>Christy Chavez</td>
<td>Heinrich Enterprises, Inc.</td>
<td>740-373-5302</td>
</tr>
<tr>
<td>Executive Secretary</td>
<td>Billie Leister</td>
<td>SOOGA</td>
<td>740-374-3203</td>
</tr>
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**TRUSTEES**

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<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Barbara Graham</td>
<td>United Chart Processors</td>
<td>740-373-5801</td>
</tr>
<tr>
<td>Robert Gerst, Sr.</td>
<td>Oil Haulers, LLC</td>
<td>740-516-6623</td>
</tr>
<tr>
<td>Jason Harris</td>
<td>Dominion East Ohio</td>
<td>740-434-3453</td>
</tr>
<tr>
<td>Jim Rose</td>
<td>Producers Service Corp.</td>
<td>740-454-6253</td>
</tr>
<tr>
<td>Carl Heinrich</td>
<td>Heinrich Enterprises, Inc.</td>
<td>740-373-5302</td>
</tr>
<tr>
<td>Steve Sigler</td>
<td>Buckeye Oil Producing Company</td>
<td>330-264-8847</td>
</tr>
<tr>
<td>Roger Heldman</td>
<td>HG Energy, LLC.</td>
<td>304-420-1107</td>
</tr>
<tr>
<td>Chad Spence</td>
<td>Artex Oil Company</td>
<td>740-373-3313</td>
</tr>
<tr>
<td>Kathy Hill</td>
<td>Ergon Oil Purchasing, Inc.</td>
<td>740-350-2804</td>
</tr>
</tbody>
</table>
Southeastern Ohio Oil and Gas Association
Gas Committee Report
June, 2014

PRICING

Prices June 10, 2014

One Year NYMEX strip (July, 2014 – June, 2015) $4.54
Summer NYMEX strip for 2014 (July-October) $4.63
Winter NYMEX strip (Nov. 2014 – March, 2015) $4.70
TCO Index Posting - June, 2014 $4.58
DTI Index Posting – June, 2014 $3.31

It appears that high storage levels combined with enhanced production capabilities and slow usage growth could keep gas prices from rising dramatically over the next couple of years.

GAS STORAGE AS OF THE June 5, 2014 Report

Working Gas in storage was 1,499 Bcf as of Friday, May 30, 2014. At 882, total working gas is below the 5 year historical range.

<table>
<thead>
<tr>
<th>Region</th>
<th>05/30/14</th>
<th>05/23/14</th>
<th>change</th>
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</thead>
<tbody>
<tr>
<td>East</td>
<td>655</td>
<td>586</td>
<td>69</td>
</tr>
<tr>
<td>West</td>
<td>269</td>
<td>250</td>
<td>19</td>
</tr>
<tr>
<td>Producing</td>
<td>575</td>
<td>544</td>
<td>31</td>
</tr>
<tr>
<td>Salt</td>
<td>163</td>
<td>152</td>
<td>11</td>
</tr>
<tr>
<td>Nonsalt</td>
<td>412</td>
<td>391</td>
<td>21</td>
</tr>
<tr>
<td>Total</td>
<td>1,499</td>
<td>1,380</td>
<td>119</td>
</tr>
</tbody>
</table>

Storage is 35.1% full compared to normal as of this report, with normal total capacity of 4,265 at the start of the withdrawal season. Storage is 737 BCF below last year, and 992 BCF below the five year average.

EIA Raises Forecast for natural Gas Prices:

According to the EIA, Natural gas prices will average $4.74 per MMBtu, up 6.8% from its forecast last month, as supplies are likely to stay tight. This short term outlook predicts that the natural gas industry will need to produce more in November and December to catch up and match consumer demand of 72.3 Bcf per day in 2014, up
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0.22Bcf from last month’s forecast. The EIA expects prices to finish at an average of $4.88 per MMBtu, up from the 2013 average price of $4.84. Utilities that must inject into storage for the winter are competing for supplies with power plants and industrial consumers that are using more gas than expected now.

**GATHERCO**
Retainage for March, 2014 is as follows for the Gatherco systems: Treat was 9.05%, Miley was 5.0%, Meigs was 10.49%, York was 5.0%, Grimes was 13.1%, and Elk was 8.5%. April, 2014 retainage was not available as of the date of this report.

**WEST VIRGINIA NEWS:**
West Virginia appears to be close to landing a coveted ethane cracker plant to serve the Utica and Marcellus shale plays - the sort of billion-dollar project coveted by Ohio economic development officials for some time.

West Virginia Gov. Earl Ray Tomblin and officials from Brazilian company Odebrecht stood shoulder to shoulder at a press conference recently, saying the company is looking at developing a cracker near Parkersburg across the Ohio River from Marietta.

The plant, which would separate ethane from natural gas, would be part of a petrochemical complex that would include three polyethylene plants and facilities for water treatment and energy cogeneration.

**New Tank Regulations:**
West Virginia has adopted some new tank regulations recently. The results and requirements of this new regulation were set out and explained in the latest SOOGA Newsletter, so please read it to familiarize yourself with these regulations if you have production in WV.

**UTICA NEWS:**
*Utica Shale holds massive resources, estimate shows.* Columbus Business Journal. The U.S. Geological Survey released its first estimate, showing the shale formation holds about 38 trillion cubic feet of undiscovered, recoverable natural gas, 940 million barrels of oil and 9 million barrels of natural gas liquids such as ethane and propane. Ohio is ranked 14th in this year’s Global Petroleum Survey of 147 states and countries by the Fraser Institute, a free-market think tank in Calgary, Canada. That’s down from second in 2011, with the fall apparently driven by concerns about complying with tougher federal and state environmental regulations and a tax increase on oil and gas production proposed by Gov. John Kasich.

**NEW PIPELINES PROPOSED TO SPUR UTICA SHALE DRILLING IN OHIO**

**BLUEGRASS PIPELINE CANCELLED:** Two pipeline companies from the Southwest, Williams Companies Inc. and Boardwalk Pipeline Partners LP have cancelled the Bluegrass Pipeline due to insufficient level of customer commitments, referring to potential users saying they will need specified pipeline capacities.

**SPECTRA ENERGY:**
Spectra Energy, along with two other companies, is proposing a new 250 mile 36” pipeline, Nexus Gas Transmission, for transporting gas from shale drilling in eastern Ohio to Detroit and southern Ontario, subject to FERC approval. The anticipated cost of this new pipeline is $1.5 billion, and could be in service as early as November, 2016. The proposed pipeline will run from Carroll County, Ohio to Detroit and southern Ontario.

**DOMINION EAST OHIO:**
Blue Racer Midstream has negotiated a new agreement for liquids uplift for producers on the DEO Guernsey/Cambridge gathering system for conventional production. The new agreement will be an amendment to the original HCA agreement. More details will be available after the agreement is completed.

**MIDSTREAM/PROCESSING NEWS:**
Blue Racer Midstream’s gas processing plant that was hit by an explosion on September 21, 2013, is up and running. The second train was be up and running in April, 2014.

(Continued to page 18)
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Teachers educated on oil, gas industry
The Marietta Times  June 20, 2014 By: Amanda Nicholson

A group of 40 teachers across the state participated in an Ohio Oil and Gas Energy Education Program (OOGEEP) Science Teacher Workshop Thursday, touring sites involved in the oil and gas industry.

Teachers were able to go to Ken Miller Supply, 26270 Ohio 7, which is a supplier across several states for the industry, as well as Ergon's Marietta terminal, 35020 Ohio 7, and a Triad Hunter well site.

OOGEEP Executive Director Rhonda Reda said in order to understand the processes in the oil and gas industry, it's necessary to touch on all aspects.

"(Teachers have learned) what a downhole pump does and equipment that's put on a well to help it produce," she said. "At the pipe yard, (they saw) how a pipe is threaded. We have to really start at the beginning (of the process)."

Scott Craycraft, manager at Ken Miller Supply, said education is a great thing in overcoming obstacles.

"The biggest hurdle for us for growth is people," he said. "(The industry) is nothing new, it's just bigger for us...Our foundation has been here a long time."

Craycraft likened this part of the oil and gas industry to building a house, where the working parts are covered.

"We spend a lot of time getting the pipe ready and (oil and gas companies) bury it in the ground," he said.

Dennis Malaska, 62, a teacher at Youngstown Christian School, said he's had fun with learning about the oil and gas industry and is ready to take that knowledge back to his students.

"(Wednesday) they had hands-on activities for how wells are drilled, how the oil has been formed and what products it produces," he said. "(Now I can) take it back to the classroom and do activities there."

The experience has been compelling, he said.

"You get the theory about how wells are drilled," Malaska said. "When you actually see the equipment and how a well is drilled...it's fascinating."

Dan Alfaro, media relations manager for OOGEEP, said teachers had all-day classes Wednesday, followed by their field trip to actual sites involved in oil and gas.

"(They learned) about trapping and migration, how fossil fuels are formed," he said. "At the end of the day, they'll receive kits with different samples of sandstone and shale and books with projects they can take back to their classrooms."

Alfaro said teachers from all 88 counties in Ohio have attended this program over the years, adding up to more than 2,600 attendees.

Jim Mook, field operations supervisor at Ergon's Marietta terminal, explained that Ergon has technology to help clean spills up quickly and efficiently.

"If something like (a spill) happens, everybody drops everything," he said. "It's all hands on deck. Just like if you have an emergency at home, you drop everything. Dinner's gonna burn, but you're going to take care of your kid that fell out of the tree stand...We have a zero tolerance policy on spills."

Mook said giving teachers resources is going to help teens that might not be higher education minded.

"Not only is this (program) to help you guys with education, as teachers you know not every kid is made for college; they're hands-on kids," Mook said. "You guys can be that teacher (who) can make a difference with that kid (by pointing them in a career oriented direction)."

That's one thing Austin Cable, 35, teacher at Edison High School, said he's looking forward to.

"That's part of it; I want to educate students on newer opportunities," he said. "In Jefferson County, we're big on coal and big on steel, at least formerly we were. Both of those are in decline...Often (students) don't know what they want to do...I've only had a few students whose parents worked in oil and gas...and shared with a few friends. We don't have a lot involved in the oil and gas industry."
Athens County `ban fracking` activists back to old tricks

By: Shawn Bennett

If there is one place in Ohio where the spirit of the 1960s is still alive, it is Athens County. While the rest of the United States has moved on from that period of time, there are still those in Athens who believe doing things like chaining yourself to fences is a perfectly sane action to take when things don’t go your way. In that unfortunate tradition, last Thursday, June 5 marked the fourth time in less than two years that activists from Appalachian Resist attempted to block normal legal business proceedings from taking place at Class II UIC wells in southeastern Ohio.

Most are familiar with the GreenHunter disruption in Washington County a couple of years ago, where activists terrorized employees by storming their office, clogging toilets, and throwing papers throughout the office (remember, these are people who claim to own “the science” on fracking). The group also displayed banners and set up a monopod to ensure no business could take place that day, causing work to stand still while Washington County Sheriff’s Department broke up the protest. Eventually, 10 people were arrested, with six of those individuals naturally being from out of state.

What makes the June 5 event interesting, however, is prior to protest, Madeline Ffitch (yes, that is the correct spelling), a leader of Ohio’s Appalachian Resist, sent out a press release calling for the U.S. EPA to take over Ohio’s Class II UIC program and alluding to the premeditated trespassing.

Ffitch, of Appalachia Resist remarked, “When state regulators prioritize corporate out-of-state profits over the health of local people, repeatedly ignoring our concerns, this is the sort of behavior that pushes local people to enact civil disobedience and direct action in order to be heard. We will continue to appeal through conventional avenues of redress, but cannot afford to wait any longer to take action.”

Some may remember Ms. Ffitch from when she chained herself to two cement barrels at the entrance of another Class II UIC well facility in Athens County, causing law enforcement to travel from Columbus to attempt to free her from dangerous contraption. Ms. Ffitch was charged with a felony for inducing panic, although those charges were reduced to a slap on the wrist by an Athens County judge.

Less than 24 hours after the press release this past week, one of Ms. Ffitch’s cohorts, Crissa Cummings, chained herself to the gate of the K&H 2 injection well in Torch, Ohio. In her statement to the news media, Ms. Cummings said:

“In light of the recent studies that have linked fracking chemicals to birth defects, I feel sick when I think about all the babies and the pregnant friends that were protesting at this site in February, a couple of weeks after the brine spill.”

There is one problem with Ms. Cummings comment (to say nothing of her dangerous actions): it simply isn’t true. While there was an activist claiming birth defects in Colorado, it was quickly denounced by Colorado Department of Public Health and Environment executive director and chief medical officer Dr. Larry Wolk. Their investigation looked at each reported case and found no conclusive link to fracking, and in fact cautioned the public against relying on the inflammatory study. This information may have been very helpful to Ms. Cummings before she was compelled to handcuff herself to a gate and face charges of trespassing.

After causing the business to be shut down for most of the day, Ms. Cummings was arrested and charged with trespassing. She was released on her own recognizance and appeared at the Athens County Courthouse the next day.

We can all have a civil conversation about the benefits and risks of shale development, and there is plenty of room for disagreement. For some, the jobs and economic activity being spurred by shale development will never outweigh the potential for environmental impacts. Regardless of where you fall on the spectrum of “pro” or “anti” shale, we can likely all agree that the best path forward does not involve trespassing and creating safety hazards for hardworking men and women simply trying to provide for their families.

Shawn Bennett of Cambridge is a spokesperson for Energy in Depth, which describes itself as “a research, education and public outreach campaign focused on getting the facts out about the promise and potential of responsibly developing America’s onshore energy resource base.” Fracking opponents have accused Energy in Depth of being a front group for the oil and gas industry. This is a reprint of a piece written by Bennett on the Energy in Depth website.
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1. Evaluate the accident area to ensure he/she does not become involved in the same accident situation. The injured person should not be moved unless a life threatening condition exists (i.e., a person’s car catches on fire after a wreck and they could be burned up.)
2. Remain calm and take charge of the situation until professional medical help arrives.
3. Direct others briefly and clearly as to how they can help or secure help.
4. Conduct a primary survey of the victim to detect life threatening conditions that require immediate attention.

These include:

**Respiratory Arrest**
- Ensure Adequate breathing by establishing and maintaining an open airway.
- If there are no signs of breathing, give artificial breathing (mouth-to-mouth using by-pass resuscitator is preferred method).
- If victim experiences circulatory failure, start CPR if trained to perform it.

**Severe Bleeding**
- Determine if from capillaries, veins or arteries.
- If artery or vein is involved, use the following methods in this order:
  1. Apply direct pressure using a sterile bandage or the cleanest material available.
  2. Elevate the bleeding part of the body above the head if no fractures are involved and injury will not be aggravated.
  3. Apply pressure at closest available pressure point.

**Shock**
Be prepared to treat for shock even when there is little or no injury. First aid procedures are:

- Keep victim lying down.
- Provide as much fresh air as possible.

3. Loosen tight clothing at the neck, waist and chest.
4. Keep the victim warm and dry by wrapping in blankets or similar materials.
5. Do not give victim anything by mouth.
6. Help victim maintain a good positive attitude by remaining calm, using reassuring tones and keeping onlookers away.

- Determine if transportation is necessary. Transportation of the injured person will depend on the judgment call of the First Aid Provider. In many cases, particularly with fractures, back and similar injuries, it is wiser to call the rescue squad or EMS for professional help. They have backboards, inflatable splints and other equipment that can be used to move the victim without causing additional injuries.
- Only after the life threatening injuries have been addressed and medical help has been requested, should the First Aid Provider proceed to the following steps. Most of the additional steps may not be necessary if medical help can get to the site.

1. Dress any open wounds with bandage compresses, cravat bandages or any other clean materials that are available. It is only necessary for this material to last until the victim can be moved to professional medical help.
2. Splint any fractures with the best available material. Shovel handles, sticks, rolled up newspaper, etc., can be used as improvised splints.

“*When all else fails, the First Aid Provider should use his or her best judgment and do whatever is necessary to save the life.*”
Brandon Preston
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### GAS PRICING 2014

**MAY 2014**
- NYMEX Settlement: $4.7950
- Inside FERC/DTI: $4.0100 (Basis: -$0.785)
- Inside FERC/TCO: $4.7200 (Basis: $0.075)
- NYMEX 3-day Average: $4.7157

**JUNE 2014**
- NYMEX Settlement: $4.6190
- Inside FERC/DTI: $3.3100 (Basis: -$1.309)
- Inside FERC/TCO: $4.5800 (Basis: -$0.039)
- NYMEX 3-day Average: $4.5097

### OIL PRICING 2014

**ERGON OIL PURCHASING WEST VIRGINIA MONTHLY AVERAGE**

- April Ohio Tier 1: $100.7197
- April Ohio Tier 2: $97.7197
- April Ohio Tier 3: $94.7197
- April West Virginia Tier 1: $101.7197
- April West Virginia Tier 2: $98.7197
- April West Virginia Tier 3: $95.7197
- April Marcellus/Utica Condensate: $79.6050
- April Marcellus/Utica Medium: $100.7197
- April Marcellus/Utica Light: $90.6493
  - May Ohio Tier 1: $100.3384
  - May Ohio Tier 2: $97.3384
  - May Ohio Tier 3: $94.3384
  - May West Virginia Tier 1: $101.3384
  - May West Virginia Tier 2: $98.3384
  - May West Virginia Tier 3: $95.3384
  - May Marcellus/Utica Condensate: $78.2919
  - May Marcellus/Utica Medium: $100.3384
  - May Marcellus/Utica Light: $92.3310

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

**Tier 2** - 60-149.99 net barrels of crude oil
  - Two Stops within 5 miles

**Tier 3** - 30-59.99 net barrels of crude oil

The prices as posted are based upon computation of volume by using tank tables, or as measured by a deduction for all BS&W and correction for temperature deductions or allowances shall be made on the oil purchased shall be free of contamination and/or alteration by foreign substances or chemicals not associated with virgin crude oil. These include but are not restricted to, oxygenated and/or chlorinated compounds.

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

- 38.0-49.9 API Gravity—**Marcellus/Utica Medium** crude oil
- 50.0-59.9 API Gravity—**Marcellus/Utica Light** crude oil
- 60.0+ API Gravity—**Marcellus/Utica Condensate** (formerly posted as Appalachian Sweet Light-ALS).

Other parameters will be evaluated on a farm by farm basis.

You can now find EOP WVA Crude oil Price Bulletin on the internet at: [www.ergon.com](http://www.ergon.com)

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

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<tr>
<th>Group</th>
<th>API Gravity</th>
<th>Description</th>
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<tr>
<td>1</td>
<td>38.0-49.9</td>
<td>Marcellus/Utica Medium crude oil</td>
</tr>
<tr>
<td>2</td>
<td>50.0-59.9</td>
<td>Marcellus/Utica Light crude oil</td>
</tr>
<tr>
<td>3</td>
<td>60.0+</td>
<td>Marcellus/Utica Condensate (formerly posted as Appalachian Sweet Light-ALS)</td>
</tr>
</tbody>
</table>

For questions relating to ARG Group Pricing or Utica / Marcellus Shale pricing, please contact:

Gary Welker, Mgr.-Crude Supply & Gathering -
330-813-1898; gwelker@amref.com

You can now find ARG Group Pricing Bulletin on the internet at: [www.amref.com](http://www.amref.com)
BLAST FROM THE PAST!
At various times Marietta Times has a column titled as ‘Times Past.” This discusses items from their paper 50 and 100 years ago. Here are two examples of Times Past items from recent issues which may be of interest to our readers.

TIMES PAST (Marietta Times April 15, 2014)
April 15
50 years ago
- After serving the oil and gas industry in three states in the shooting of wells since 1902, the Producers Torpedo Co., with main offices in Marietta will dissolve and liquidate. The wide-spread use of new fracturing methods in recent years has cut into the business in which nitroglycerin had been used.

TIMES PAST (Marietta Times April 14, 2014)
100 Years ago
- Oil producers were given a hard jolt today when a drop of 10 cents in the price of Pennsylvania oil was recorded at the Buckeye Pipe Line buying office when the market opened, the first change since February 1913. The price now paid is $2.40 per barrel, and general opinion prevails that a worse drop is yet to come.

Compiled by Linda Showalter, Marietta College Special Collections.
The Insider

(Continued from page 6)

Pinto Energy is looking to build a 2,800 bbl/day gas to liquids plant east of Ashtabula, Ohio. It will produce high quality synthetic liquids as well as lubricants, waxes and solvents from gas being produced by the Utica and Marcellus formations.

Markwest has been processing 60 Mmcf/d since August of 2012 from its gas processing facilities in Cadiz. They have now completed their Cadiz 1 facility and commence operations of their 125 Mmcf/d cryogenic processing plant. With the completion of Cadiz 1, MarkWest will now be able to process more of the liquids rich gas coming from customers like Gulfport, Antero, PDC and Rex Energy.

Further South in Noble County, MarkWest is at work building an additional complex: the Seneca Complex. The Seneca I and Seneca II gas processing plants will be capable of processing 200 Mmcf/d each, and is on pace to begin operations of the Seneca I early in the fourth quarter of this year. The Seneca II is also scheduled to be installed later this year.

Utica East Ohio (UEO), a joint venture by Access Midstream, M3, and EV Energy Partners, became the first fully integrated gathering, processing, and fractionation complex to be put into operation on July 28th in Eastern Ohio. This initial phase of the UEO project is capable of processing 220-million cubic feet per day at their cryogenic processing facility near Kensington, and is processing 45,000 barrels per day of natural gas liquids at their fractionation, storage and rail facility new Scio.

The second phase is under construction and scheduled to be completed in December, 2013 with a third phase to follow. When complete, the UEO project will have 800 million cubic feet per day of cryogenic processing, 135,000 barrels per day of natural gas liquids fractionation, 870,000 barrels per day of natural gas liquids fractionation, 870,000 barrels of gas liquids storage and a rail facility capable of loading 90 cars per day.

Hickory Bend Project, the NiSource and Hilcorp natural gas processing project, has announced the construction of a $60 million pipeline to move natural gas liquids from their cryogenic natural gas processing plant in Springfield Township to attractive market destinations. Pennant Midstream will construct the 12 inch 38 mile pipeline. It will have the capacity to deliver up to 90,000 bbls. of NGS per day to a Utica East Ohio pipeline in Columbiana County, and from there be transported to the fractionator in Harrison County. It is expected to be complete by July, 2014.

For more information, click on this link;  http://energyindepth.org/ohio/new-natural-gas-plant-up-and-running-in-eastern-ohio/

Utica Facts & Numbers

Estimated Natural Gas Production increased 143 percent from 2012 to 2013, while oil production increased 95 percent. Around 203 BCF of natural gas was produced in Ohio last year, up from 83.4 BCF in 2012. About 9.7 million barrels of Oil was produced in 2013, up from 4.9 million barrels in 2012. These estimates could be revised as official results are released later this year from the ODNR.

For the first quarterly reporting Ohio saw some strong production numbers coming from wells online in Eastern Ohio. In total, the 245 wells produced 1.3 million barrels of oil and 33.6 million mcf of natural gas. The average amount of time in production was 55 days.

The next quarterly report must be filed by mid-May for the First-quarter results, and released in June, 2014.

As of May 31, 2014, there have been 1,283 Utica Shale permits issued in 23 counties in Ohio to 29 companies, and 879 of them have been developed. The counties are listed below.


There are currently 404 Utica Shale wells in production, with 35 rigs running.

Use of Data:

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Dear Mr. Mandirola,

The Southeastern Ohio Oil & Gas Association (SOOGA) would like to present to the WVDEP written comments addressing the proposed rules for the 2015 Legislative Session implementing the regulatory program outlined in Senate Bill 373 (the Tank Bill). SOOGA is a non-profit organization established in 1978, by local oil and gas producers concerned about problems facing our industry that are unique to the geographic area of Ohio and West Virginia. SOOGA has become a strong, respected and powerful “grass roots” watchdog for its 489 members, dedicated to serving the interests of an important and sizable part of the area economy.

SOOGA is aware of the crisis in the Kanawha Valley that occurred early this year due to a chemical leak into the Elk River. We understand that the WVDEP must act to make sure this crisis doesn’t happen again but we feel we need to speak for the small producer who could become economically devastated by regulations imposed on them by the WVDEP.

Since the DEP is asking for input from the industry and public, SOOGA would like to address issues of concern in the Tank Act prior to the WVDEP preparing the first draft of the rule. SOOGA would like to present to the WVDEP the following concerns as they relate to the SMALL OPERATORS/PRODUCERS:

**Tanks** – The tank size exemption should be changed from 1320 gallons to 100 barrels. The 100 barrel tank is the tank size that the majority of small producers use. Cost estimates to comply with this legislation are between $500 and $1,000 per tank. The small producer cannot afford this major expense and could force them into bankruptcy. Marginal wells would not be operated causing wells to be plugged or abandoned, counties to lose tax dollars, landowners to lose free gas and creating a liability for the State of West Virginia. Tanks that are not in use should be exempt from regulation.

**Annual Inspections** – Currently, tanks must be inspected annually. The cost to empty, clean out tanks, and have third-party annual inspections of tanks could be a significant economic burden to the small producer. It would be more prudent to have the tanks inspected by a person certified by a program approved by the WVDEP.

**SPCC Plans** - Small producers have SPCC Plans in place and adhere to the secondary containment rules for tanks that hold oil. THIS SPCC PLAN ALONG WITH THE REQUIRED PERIODIC INSPECTIONS ARE DESIGNED TO PREVENT AND/OR CONTROL A SPILL IF ONE EVER OCCURRED. Secondary Containment is the critical component of the facility. Secondary containment inspection would be more meaningful and less expensive than a tank inspection.

**Registration Fee** – A registration fee for each tank will place a financial burden on small producers. Scale the fee according to the size of the tank.

(Continued to page 23)
Zone of Critical Concern – The WVDEP should be responsible to designate the Zones of Critical Concern.

SOOGA realizes that we all have a responsibility to the public to protect the ground and surface waters. We would like to work with the WVDEP in the proposal of the Tank Act rules and keep the negative impact of overregulation from bankrupting the small operator in West Virginia.

Sincerely,

The SOOGA Board of Trustees
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Thanks to everyone that attended and helped in anyway.
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**See the SOOGA website for additional pictures of Spring Meeting www.sooga.org**
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Winning Teams & Skill Prizes

**Flight A**—1st Place—Eric Kemmerer, Rod Musselman, Doug Miller, Jim Ceriani

2nd Place—Jim Javins, Brian Chavez, Eric Erb, Mark Bradley

3rd Place—Jessie Jones, Wendy Driscoll, Rick Welker, Larry Blake

**Flight B**—1st Place—Jason Robison, Jay Mizack, Tim Star, Brian Lovel

2nd Place—Ron Anderson, Jim Rose, Joe Herman

3rd Place—Brandon Preston, Glen Wiser, Mike Geoff, Burke Grove

---

**Men**

- #5 Long Drive in the Fairway—Nate Eschbaugh
- #18 Longest Putt—Jud Byrd

**Ladies**

- #14 Long Drive in the Fairway—Amy Russell
- #5 Longest Putt Made—Wendy Driscoll

**Men or Ladies**

- #4 Closest to the Pin—Bob Dorfe
- #7 Closest to the Pin 2nd shot—Brian Chavez
- #11 Closest to the Pin—Bob Chase

#9 Straightest Drive (Closest to Line) - Mike Runyon

**Skins Game**

- 12A—Hole #5—Eagle—Ron Smith
- 1B—Hole #7—Birdie—Brian Chavez
- 12B—Hole #14—Eagle—Brendon Preston

---

Thank you

To all the golfers, and anyone that brought door prizes.

Weatherford International for donating their winnings to the SOOGA Legacy Fund.

Your continued support is greatly appreciated!!!!!!

If we missed anyone please let me know, additional pictures on SOOGA website
Carl Heinrich inducted into OOOGA’s Hall of Fame

Carl Heinrich was born in 1938 in Allegheny County, Pennsylvania. Carl’s father was a career military officer so they moved frequently. His early years were spent in Allegheny and Warren Co., PA as well as New Jersey, where he graduated from high school. At the age of 17, Carl enlisted in the “brown shoe” Army. After active duty, he finished out his military obligation in several reserve units in Pennsylvania. Carl went on to serve in the Ohio Military Reserve achieving the rank of Captain. In the late 1950’s and early 1960’s, he spent several nomadic years working in Pennsylvania, Ohio and West Virginia in various capacities, such as a cable tool rig tool dresser, rotary roughneck, well tender, compression station operator, pipeline walker, well site geologist, etc. Most of this was as an employee of Devonian Gas and Oil Co. along with several other drilling companies. During this period, Carl was well site geologist on a well in Herkimer Co., NY. At that time it was the most western drilling operation in NY. Alas, it was non-productive even though it was drilled through Marcellus and Utica.

In 1975, Carl started a “second career” in law enforcement as a deputy sheriff, firearms instructor and training school commander through Ohio Peace Officer Training Commission. He has trained many officers from various agencies in Washington & Morgan Counties.

A native of Pennsylvania’s oil region, Carl’s first experience in Ohio was in 1959 when he was sent to Ashtabula County to supervise the drilling of a deep Gatesburg (now known as Rose Run) wildcat being drilled with cable tools. While wet in the Gatesburg, it was completed in the Clinton, and that well is still producing today.

After completing Marietta College, Carl graduated in 1964 with a dual BS degree from the Petroleum Engineering & Geology Department. Then he went to the Morrow County oil boom, working for Well Supervision Inc. as their engineer-geologist.

After Morrow County, Carl returned to Washington County, Ohio where he operated several old shallow well leases and drilled a number of new wells to the Devonian Shale. The “shale” was a new deeper zone for this area and many technological problems had to be solved. Many of these early wells are still profitable producers.

In 1970, Carl joined the Quaker State Oil Refining Corp. and served as District Engineer until 1978 at their production office in Belpre, Ohio. This district covered all of Ohio except Ashtabula County, as well as other southern Appalachian areas; we drilled many Clinton wells primarily in East Canton & Hocking County areas. Carl engineered and installed the first disposal well in the East Canton oil field. Since 1978 he has been active in southeastern Ohio as a land man, operator-driller-consultant-on his own account and for clients and joint venture partners. His family continues to operate a successful producing company, operating existing stripper wells in addition to developing new Marcellus, Oriskany and Clinton production and disposal wells and other operating interests in Ohio, West Virginia and Pennsylvania.

Working with Jim Massey of Aircowell, Carl successfully designed and performed the first all gas (nitrogen) frac job in 1978. This process has been extensively used in the Appalachian producing area since then. Also, he has been actively involved in research, development and production of Devonian shale reservoirs since 1965.

Carl’s membership with OOOGA spans over 51 years. He has also been active in a number of professional organizations including SOOGA, IOGA-WV, AAPG, SPE, AAPL, AIPG, and UNOGAS, both as a member and serving on committees such as API Reserve Committee, OOOGA Crude Oil Committee and Region III and IV Producers Committee Chairman.

In 1966, Carl married Judy Cole, his college sweetheart and future business partner. They have two children, Christyann Chavez (who works with husband Brian in the company) and Joseph of Derry, New Hampshire. Brian and Christy have become active partners of the company as leaders of the next generation.
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[ ] Producer [ ] Contractor [ ] Allied Industry [ ] Professional

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