

# Rivers Edge

Three Rivers Desk & Derrick  
Quarterly Newsletter

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## A WORD FROM THE EDITOR

Three Rivers Desk and Derrick Club is an energy educational organization. Its main purpose is to help educate its members about the various phases of the energy industry. We accomplish this by sponsoring monthly meetings and providing energy educational speakers. We also host field trips so that the members can visit energy facilities on site. We returned to hosting meetings in person, but if you cannot join us in person, there is the opportunity to join us via the internet. Isn't technology wonderful!

The topic for the Three Rivers April meeting, presented by Matthew Fortney, Construction Manager for Range Resources, was "Public Road Use and The Marcellus Shale Industry." The topic for the June meeting was "Scale Remediation in the Marcellus Shale: Calcium Carbonate and Iron Sulfide" by Laura Perkins.

**Upcoming Event: ADDC International Convention - Albuquerque, New Mexico, September 20-23, 2023.**

If you have any questions or would like additional information regarding Three Rivers Desk and Derrick, please contact Cheryl Grimm (President) at [cgrimm@rangeresources.com](mailto:cgrimm@rangeresources.com). or Danielle Owens (Secretary) at [deowens@rangeresources.com](mailto:deowens@rangeresources.com).



## 2023 Northeast Region Meeting

Highlights:

May 18 - 20, 2023; French Lick, Indiana

\*Field Trip with 3 stops:

1. Marengo Cave with a guided tour and a geologist to explain the various formations.
2. Winzerwald Winery for a tasting and lunch.
3. Illinois Basin Oil Producer well site with pump jack and well tanks, and an explanation of how to gauge a tank.

\*Seminars - Indiana and Illinois Basin

\*Business Session

\*Awards Luncheon





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2023 Northeast Region Director

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330-364-5811

NortheastRD2023@gmail.com

June 2023

Dear Northeast Region Members:

Wow! – Thank you to everyone who helped make the Northeast Region Meeting a success! I cannot thank everyone enough for all their help from the general arrangements committee, sponsors, attendees, speakers, to those who presented reports during the meeting. It was so good to see everyone in person.

The field trip on Thursday began with a tour of the Marengo Cave, followed by lunch at Winzerwald Winery and ending with a tour of a CountryMark production site where they demonstrated gauging a tank and testing the oil sample for quality. The seminars on Friday were great as we learned about the ways Indiana and Illinois educate the public on oil and gas. It is interesting to see how different oilfield basins compare and differ at the same time. Friday night's dinner was fun with DJ Mikey Mike playing some good music. There were good discussions during open forum at the business session and the meeting wound down with the industry luncheon before saying goodbye until next year.

If you are not a member of the Northeast Region Facebook Page, look us up and ask to join. We shared a lot of pictures from the Region Meeting.

Congratulations to Shelly Hildebrand our 2024 Northeast Region Director-Elect!

Congratulations to each of our AIMEE winners as well! They are now heading off to be judged again for Convention. Stay tuned to see if the Northeast Region can come away big winners! I hope next year Penn York and Three Rivers join in the competition.

The ADDC Nominating Committee is accepting nominations for the 2024 ADDC Officers for President-Elect, Secretary and Treasurer. The forms are available on the ADDC website and the deadline for submission is Friday, June 30<sup>th</sup>, 2023.

Keep an eye out for the registration packet for the upcoming 2023 ADDC Convention in Albuquerque, New Mexico from September 20<sup>th</sup> – 23<sup>rd</sup>, 2023. I cannot wait to see what the West Region is planning for us.

As always, please let me know if there is anything I can do for you.

Until next month,

*Kelli Hiltbrand*





**Barbara Pappas**

2023 ADDC President

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June 2023

To: ADDC Membership

All the Regional meetings are completed and the 2024 Region Director-Elects have been elected. Congratulations go to the following individuals who have stepped up to serve on the ADDC Board next year.

Central Region – Michelle Burgard, Oklahoma City Club

Northeast Region – Shelly Hildebrand, Tri-State Club

Southeast Region – Angela “Angie” Corvers, Baton Rouge Club

West Region – Heather Woods, Farmington Club

The Public Relations Committee has opened nominations for the DSA (Distinguished Service Award) and the SSA (Special Achievement Award). The DSA is an award given to an individual in recognition of outstanding service to the Petroleum, Energy, and Allied Industries and/or the Association. This award is open to members and non-members of Desk and Derrick. The SSA is given to a club, club member or a committee within the Association of Desk and Derrick Clubs. Nomination deadline is **July 1, 2023**, so send in your choice for the DSA and SSA to the Public Relations Chairman, Helen Trujillo, at [htrujillo@rlbayless.com](mailto:htrujillo@rlbayless.com)

Nominations for the 2024 ADDC Board are due by **June 30, 2023**, to Keith Atkins at [Keith.Atkins@murphyusa.com](mailto:Keith.Atkins@murphyusa.com). Elections for President-Elect, Treasurer, and Secretary are open to members who are or have been a Regional Director. If you have ever thought about serving on the Board, now is the time! If you are not sure or just have questions before putting your name in the hat, please feel free to contact me or anyone else on the Board. Being a part of the ADDC Board allows you to learn more about the Association and helps you to grow as an individual in your career/personal life as well.

As the year progresses, we are coming closer to our Annual International Convention and Educational Conference in September. Registration packets will be sent out and can be found on the ADDC website, [www.addc.org](http://www.addc.org). I welcome everyone to attend, whether you have been many years or this is your first time to attend a Convention, it will be an experience you will not soon forget. This is the time for our Association to educate and collaborate with members and offer industry speakers to enlighten us on different aspects of energy, and to network with others.

**“Leadership rests not only upon ability, not only upon capacity, having the capacity to lead is not enough. Leaders must be willing to use it. Their leadership is then based on truth and character. There must be truth in the purpose and will power in the character.” — Vince Lombardi**

**Greater Knowledge ~ Greater Service**

*Barbara Pappas*



June 21, 2023

Hello Three Rivers Desk and Derrick Members,

I hope this letter finds you well!

This year is off to a great start with our Programs! 1<sup>st</sup> Matt Fortney, P.E. at Range Resources with his presentation on "Public Road Use and the Marcellus Shale Industry" in April. Highly informative and eye opening as to what goes into the process of Constructing a route to the drilling sites – from planning, repairing roads and even having to build bridges in some cases.

The NE Region (1<sup>st</sup> in Person) meeting in May in French Lick, Indiana, was impressive! Three Rivers D&D (TRDD) had good participation with 5 of us traveling to French Lick. It was a fun time and learned so much about shallow oil drilling/production and blue gas. Hopefully, we can have a presentation soon regarding blue gas – hydrogen fuel. Also, touring the Marengo Cave was very cool, but I will let our 1<sup>st</sup> time members share their experience.

Our last meeting with Laura Perkins from Range presenting "Scale Remediation of the Marcellus Shale: Calcium Carbonate and Iron Sulfide" was so informative and very technical. Laura explained how scale build up is removed from production tubing to improve the production of the well.

August is open for suggestions of a Program and if there is something you would like to learn, please reach out to me or one of the Board members, Penny Jacobs, Callie Fry, Danielle Owens, Larry Edelstein (M.W.Gary) and Abbie Standiford.

The interest in TRDD is ramping up with new members every month. We started with 31 members and currently have 47 members as of today. This is fantastic! Keep spreading the word to your colleagues' other organizations and let's try to set a record of 70 members next year!

On the Scholarship front, next year we will be partnering with AADE, SPE, and MSC to reach a broader student base – focusing on industry related studies. We will also be increasing our dollar amount to two \$1,000.00 scholarships. Be on the lookout for our fundraisers. Thanks again to all who participated in the ticket sales.

This year we are giving the two \$500 scholarships and the due date is June 30<sup>th</sup>. If you know of someone and would like to sponsor them, please send the completed application to Larry Edelstein. The application and instructions are on our website:

<https://sites.google.com/site/threeriversdeskerrick/calendar/scholarships>.

Our Board is working hard to bring you current and relative programs and events. Please look for Danielle Owens emails with our Chapter as well as ADDC updates. Thanks Danielle and the Board!

Until next time, all the best,

Cheryl

*Cheryl Grimm*



## FIRST REGION MEETING EXPERIENCE

by Danielle Owens,, Engineering Tech-Water Operations

As a newer member, this was my first Region Meeting with Desk and Derrick. It was such a terrific opportunity to network with others in the industry. During our field trip, we did a tour of Marengo Cave with a geologist. It was remarkably interesting to hear his experience in oil and gas for Kentucky, including the Devonian Shale research. In the afternoon we got to visit a production site for CountryMark. It was so fascinating to see the similarities and differences from operations in Southwest PA. After seeing the production site in person, it was then fascinating to hear the seminar speakers, also from CountryMark, talk about their refining and logistic experience, and how they market their product. It was wonderful to see how proud they were of the fuel that they produce. It was astonishing to hear that the air is cleaner when it leaves the vehicle than it was when it went in.

We also got to hear from a Keynote Speaker about an admirable program he has created called the CEO Program (Creating Entrepreneurial Opportunities). It immerses high school students in their local business community to help them see the opportunities in their hometown. It instills an entrepreneurial mindset, which we did get to see from two students (one former and one current). It was so great to see programs like this exist and are successful.

The purpose and mission of the Association of Desk and Derrick Clubs are to promote education and professional development of individuals, and enhance a positive image to the community. I genuinely believe this is exactly what the Region Meeting showed. It was remarkable to hear from the Director of the Illinois Petroleum Resources Board about the public awareness they are creating and education programs that they offer. In our business session we really got to see that the organization is growing, and it is something I am proud to be a part of.

## D&D EDUCATIONAL EVENT IN FRENCH LICK

by Abbie Standiford, Production Administrator-Facilities Construction-Mechanical

I've been a member of Desk & Derrick for several years now, but the pandemic prevented me from attending a regional meeting in person until this year. I was excited when other members of my club's board suggested that I make the trip with them to French Lick. My day-to-day job responsibilities don't take me to the field very often, so it was great to get to see firsthand how things function in a different basin from the one in which my company operates. Getting to visit local landmarks provided welcome enrichment, and the business sessions provided a great educational benefit, and I couldn't wait to relay what I learned to my coworkers when I returned to Pennsylvania. I can't say enough good things about the fellowship among Desk and Derrick members from different parts of the country, and look forward to attending as many future events as I am able.

## RANGE RESOURCES VS CALCIUM CARBONATE AND IRON SULFIDE

by Diane McKee

You learn something new every day! That's just one of the things that I love about Desk and Derrick. At a Three Rivers Desk and Derrick meeting in June, once again I learned something new - a problem that has presented itself to the drillers of Marcellus Shale wells in Washington County, Pennsylvania. Laura Perkins from Range Resources presented a program titled "Scale Remediation in the Marcellus Shale: Calcium Carbonate and Iron Sulfide."

When attempting to insert a plunger lift into a well to remove the fluid, they were unable to insert the plunger due to the small internal size of the pipe. In order to determine the reason for the blockage, the engineers removed the pipe and cut out a section to examine the pipe. They discovered a build up of calcium carbonate and iron sulfide scale on the walls of the pipe.



This drawing depicts the halved pipe. The left shows where the scale built up in long lines on the bottom of the pipe in the curve. The scale deposits change into dense, wavy ring-like patterns in the vertical pipe shown on the right.

How to resolve this problem! The first method was to use a slickline. Although this method was somewhat successful, it was very timely and costly and would not eliminate the scale returning.

The next approach was to use a hydrochloric acid treatment which was shown in the lab to be effective against both calcium carbonate and iron sulfide. However, hydrogen sulfide and carbon dioxide are byproducts of the reaction between HCL and iron sulfide or calcium carbonate. To use this method, they had to use extreme safety measures. In addition to safety, there were many factors to consider when using acid: volume of acid, contact time, residue created, line pressure, flowing back the acid, disposal, etc. To eliminate the problem of the acid flowing past the obstruction, they used a specifically designed plunger which had to be made from stainless steel to slow down corrosion. Using variations of this technique, 100% of the 62 wells treated have been successfully remediated.

Q: What was the well production volume when you decided to run a lift? A: 500 MCF per day. Q: How many years does the well produce before it needs a lift? A: Our wells are wet wells, so approximately 5 years. Q: How far down do you run the plunger? A: We go down approximately 45% into the curve. Q: Are you running the plunger lateral? A: No, not yet, but we are looking into that. Q: Where is the fluid going that you are pulling out of the well? A: Into the separator. Q: How often do you plunge the well to clean it? A: 3 to 4 times. Q: How many wells need plunged? A: Around 250 wells. 70% of the wells do not need plunged. Q: How do you plunge the well when it is producing? A: We shut the well in so that the pressure equalizes. Q: How much production increase do you see after the well is plunged? A: 50 to 100 MCF per day. Q: Are there any preventive measures that you can take to eliminate the build up? A: They are researching that now. There are scale inhibitors. The scale build up is coming from production so every well would need a tank so they have to consider the cost. They are considering using the scale inhibitor after plunging the well.