

October 2018

Club President's Newsletter

Angie Duplessis
President

Phillips 66
PO Box 176
Belle Chasse, LA 70037
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angie.a.duplessis@P66.com

October 2018

Letter 10

Dear Westbank Members,

The 67th Annual Association of Desk and Derrick Clubs Convention is now history. There are 46 clubs, with 1264 members as of August 31st. The 157 registrants at convention represented 41 clubs. All amendments were approved; the revised ADDC Bylaws will be posted by January 1, 2019. I am pleased to announce your 2019 ADDC Officers:

- Terry Ligon – President
- Keith Atkins – President Elect
- Evelyn Green – Treasurer
- Wendy Sparks – Secretary

The members of Region II did a fantastic job hosting. The Evansville area had much to offer to all participants.

The 2019 Convention will be held in Kansas City, MO. It will be hosted by the newly formed Central Region September 25-28 at the Marriott Country Club Plaza Hotel. It's not too early to reserve your room!

The 2020 Convention is scheduled to take place in Pittsburg, PA, hosted by the Northwest Region September 16-20. The 70th Convention will be held in New Orleans, September 2021, hosted by the Southeast Region. There will be more details in the upcoming months.

Since there was a single slate of candidates for our club's 2019 Board, no election will be needed. The 2019 Board of Directors will be:

- Angie Duplessis – President
- Zelda Gillan – Vice President
- Debbie Brazeal – Treasurer
- Theresa Adams – Secretary
- Directors – Linda Belsome and Elaine Lesnak
- Immediate Past President – Bonnie Wall



Let's continue our work together in 2019.....*We Can Do It!*

Angie Duplessis

2018 BOARD OF DIRECTORS

President: Angie Duplessis

Vice President: Judi Adams

Secretary: Theresa Adams

Treasurer: Jo Ann Brown

Immediate Past President: Susan Miller

Director: Vera Ledet

Director: Bonnie Wall

2018 COMMITTEE CHAIRMEN

- Aimee: Bonnie Wall
- Bulletin: Judi Adams
- Bylaws: Judi Adams
- Field Trip: TBA
- Finance: Dottie Ancona
- General Arrangements: Elaine Lesnak and Zelda Gillan
- Membership/Orientation: Jo Ann Brown
- Nominating/Election: TBA
- Program/IAN: Judi Adams/Theresa Adams
- Scholarship: Susan Miller
- Social: Vera Ledet
- Community Relations: Judi Adams

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Board Meetings

October 17

November 7

December 5

Membership Meetings

October 24

November 14

December 11

Month	Oct	Nov	Dec
Date	24th	14th	11th
Speaker	Judi and Theresa	Mark Ehrhardt	Evelyn McCurley Ingram
Company	ADDC	Grow LA Coalition	2019 SE Region Director Elect
Topic	Orientation	Updates	Officer Installation
Invocation	Angie	Judi	Alice Gros
Introduction	Susan	Zelda	Theresa
Theme	Halloween Costume Contest	Thanksgiving	Installation
Decorations	Susan	Sylvia/Judy G	Alice/JoAnn



President Angie Duplessis with General Arrangements Committee, Elaine Lesnak and Zelda Gillan



50/50 Winner
Sylvia Hohmann

Note from the Editor:

I hope you are enjoying the Westbank Oil Patch this year. As you may have noticed, I've made a few minor changes this year and hope they were positive improvements.

Please let me know if you have any suggestions for upcoming issues, including format or content.

Contributions from members are welcome. Please send articles on your company history, your D&D memories, or upcoming events as well as photos from the past or current D&D events.

Thanks, Judi

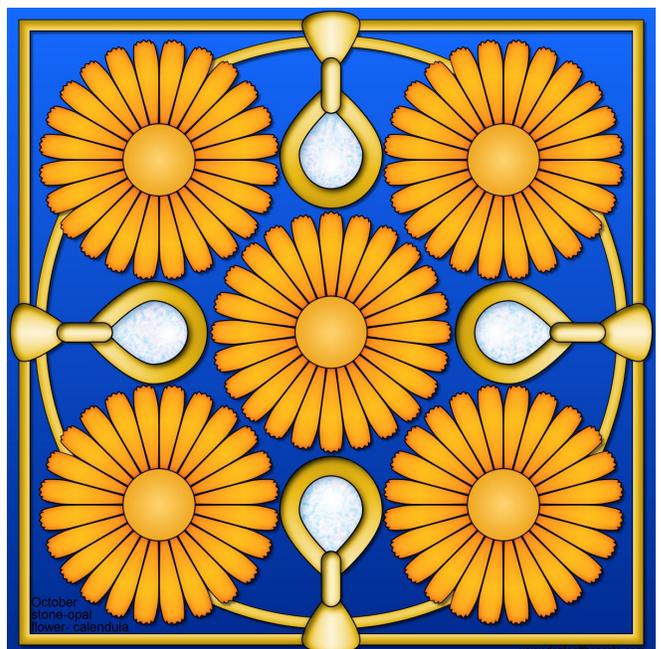


Angie presents Gaylen Guillory with 2nd Place Award for Best Industry Program



Angie presents Linda Belsome with 35 Year Achievement Award

Happy Birthday!!
 Bonnie Wall—October 17th



Halloween Costume Contest!!

Prizes awarded for:

Scariest

Funniest

Worst

When: October Membership Meeting

Date: October 24, 2018

Where: Boomtown Meeting Room

Note: Boomtown policy states guest's face must be clearly visible; if guests visit casino floor, security team has discretion to allow them on depending on the costume.



Westbank Club Field Trip



JMI Elmwood Repair & Maintenance

222 Bayou Road, Belle Chasse, LA

Saturday October 20, 2018

**11:00 a.m. - meet in parking lot near office at
10:45 a.m.**

- ✦ Workplace attire:
 - Cool, comfortable workplace appropriate clothing
 - Closed-toe shoes a must (Steel-toed NOT required)
- ✦ Members and Guests Invited
- ✦ Lunch Plans - TBD

**Bonnie Wall, Field Trip Coordinator
Call or e-mail to sign up or if you have
any questions.**

**439-1650 (c) or 362-3671 (h)
seawall4@cox.net**

DEADLINE: October 13, 2018

CONVENTION REPORT—President Angie Duplessis

Convention – 157 registered, 41 clubs in attendance, 16 first-timers.

The Association has 1264 members representing 46 clubs. Presently we are within the budget. However, there is a \$10k bill for legal services due to 3 members suing the Association for financial records. Suit is still pending. There was much discussion at on this issue at Open Forum.

Field trips – to Country Mark Refinery, Barkley Dam, Dream Car Museum, and A day on the Farm. And a half-dozen seminars. Something for everyone.

The Friday night icebreaker - Celebrating “Pumps Jacks”. decorations were high-heeled pumps and jacks (remember playing those when you were young??)

The symposium topic was Transporting Hydrocarbon Products-Pipeline, Truck, Barge & Rail. Representatives from Country Mark Refining, SynEnergy Partners, and Murphy Trucking were the speakers.

Friday luncheon speaker was Brad Richards, Bi-Petro, Inc. and past Exec. VP of the Illinois Oil & Gas Association.

Saturday luncheon speaker was Maggi Franks, 2017 President. Saturday Banquet speaker was Terri Bryant, Illinois State Representative.

Distinguished Member Award – Sheryl Minear
Distinguished Energy Service Award – Mike Gray, CPA
2019 Officers & Board are:
President – Terry Ligon
President-Elect – Keith Atkins
Secretary – Wendy Sparks
Treasurer – Evelyn Green

Bylaw Amendments –

- 1 – Structure of the Central Region – approved
- 2 – Structure of the Southeast Region – approved
- 3 – Structure of the West Region – approved
- 4 – clause on pecuniary gain – approved
- 5 – adding “retired from” to those on the board – approved
- 6 – review of financial records – approved
- 7 – the Board to meet by videoconference or teleconference or other means of technology- approved
- 8 – insert detailed budget – approved
- 9 – the Board can transfer up to \$15,000 from the convention to ADDC general fund – approved

2021 Convention – will be hosted by the Southeast Region in New Orleans, LA – September 15-18, 2021. The format is being revised with events beginning on Wednesday; this would have the

ADDC Board & members arriving on Tuesday to attend the planned functions and ending with the Saturday Luncheon (the banquet would be optional for future planning)

Convention rotation schedule: 2022-West, 2023-Central, 2024-North East, 2025-Southeast, then begin again.

Membership Certificates – 40 years, Angie Duplessis
35 years, Linda Belsome
10 years, Charles Miller

AIMEE – Westbank took 2nd Place in the Best Industry Category. Gaylen Guillory – The 2010 Gulf of Mexico Oil Spill – Then and Now. A list of all winners is on the browse table.

2019 Convention will be held in Kansas City, MO – September 22-28, 2019
(Marriott Country Club Plaza. GAC's – Casi Nichols and Wendy Sparks)

2020 Convention will be held in Pittsburg, PA – September 16-19, 2020
(Sheraton Pittsburgh Station Square. GAC's Penny Jacobs and Penney Gerdeman)

2021 Convention will be hosted by the Southeast Region – September 15-18, 2021
(Astor-Crowne Plaza. GAC's - Angie Duplessis)





**2019 Westbank D&D Board of Directors: (L-R)
Bonnie Wall, Immediate Past President; Debbie Brazeal, Treasurer; Angie Duplessis, President; Linda Belsome, Director; Elaine Lesnak, Director; Zelda Gillan, Vice President; Theresa Adams, Secretary**

**WESTBANK DESK & DERRICK CLUB
RESUME' FOR 2019 OFFICE**

Name: Angie Duplessis

Candidate for: President

Company: Phillips66

Position: Payroll Coordinator

Years as D&D Member: 40 years

Offices held: Have held all Westbank Club positions

Club Experience: Have chaired/co-chaired all committees over the years

Association Experience: ADDC President(2011),President Elect(2010),
VP(2009), Treasurer(2008), RD(2007)

Regionals Attended: 26 **Conventions Attended:** 22

Business Experience: Employed @ the Alliance Refinery 40+ years

Educational Background: B.S. Management (1995)
Our Lady of Holy Cross College

Personal Data: Married, one cat-Klinger

Company Support: yes

Deadline:

Mail your resume to: Judy Guillot
4005 Hillcrest Drive
Marrero, LA 70072
504-347-0022
Judy.s.guillot.hvze@statefarm.com

**WESTBANK DESK & DERRICK CLUB
RESUME' FOR 2019 OFFICE**

Name: Zelda Guillot
 Candidate for: VP
 Company: Retired Shell
 Position: _____
 Years as D&D Member: 1995 (23 yrs)
 Offices held: President, VP, Treasurer, Board
 Club Experience: _____

Association Experience: _____
 Regionals Attended: ? Conventions Attended: ?
 Business Experience: _____
 Educational Background: _____

Personal Data: _____
 Company Support: No

Deadline: September 12, 2018

Mail your resume to: **Judy Guillot**
 4005 Hillcrest Drive
 Marrero, LA 70072
 504-347-0022
 Judy.s.guillot.hvze@statefarm.com

<p>WESTBANK DESK & DERRICK CLUB RESUME' FOR 2019 OFFICE</p>
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Name: Debbie Brazeal

Candidate for: Treasurer

Company: Retired

Position: _____

Years as D&D Member: 36 years

Offices held: Board of Directors

Club Experience: Have chaired or served on several committees thru the years.

Association Experience: _____

Regionals Attended: 12 Conventions Attended: 1

Business Experience: Inventory & Purchasing mgt in paint manufacturing (33 years).

Educational Background: High school & many business training classes in my career.

Personal Data: Married, one child, 4 grandchildren

Company Support: _____

Deadline: September 12, 2018

Mail your resume to: **Judy Guillot**
4005 Hillcrest Drive
Marrero, LA 70072
504-347-0022
Judy.s.guillot.hvze@statefarm.com

WESTBANK DESK AND DERRICK CLUB
RESUME FOR 2019 OFFICE

Name: Theresa Adams
Candidate for: Secretary
Company: D+B Marine Services
Position: Owner
Years as D&D Member: 38

Offices held: All Club offices except Treasurer

Club Experience: Served in every officer position except Treasurer and chaired or worked on all committees

Association Experience: ADDC President 1st VP, 2nd VP, Secretary RD in 1996 & 2016; plus chaired and worked on all ASDC committees

Region Meetings Attended: 35 Conventions Attended: 30

Business Experience: _____

Educational Background: Graduate from Business College + 5 yrs college

Personal Data: Married, 1 Adult-Child, 2 grandsons

Company Support: No

Deadline: SEPTEMBER 11, 2018

Mail or Email your Resume to: Judy Guillot
4008 Hillcrest Drive
Marrero, LA 70071
judy.guillot@westbank.com

**WESTBANK DESK & DERRICK CLUB
RESUME' FOR 2019 OFFICE**

Name: LINDA BELSOME
 Candidate for: Board
 Company: Retired
 Position: _____
 Years as D&D Member: 34 years
 Offices held: _____
 Club Experience: _____
 Association Experience: _____
 Regionals Attended: 2 Conventions Attended: ?
 Business Experience: Executive Assistant
Food & Beverage Coordinator
 Educational Background: High School graduate 1971
 Personal Data: _____
 Company Support: _____
 Deadline: September 12, 2018
 Mail your resume to: Judy Guillot
4005 Hillcrest Drive
Marrero, LA 70072
504-347-0022
Judy.s.guillot.lvze@statefarm.com

**WESTBANK DESK & DERRICK CLUB
RESUME' FOR 2019 OFFICE**

Name: Elaine Lesnak
 Candidate For: BOARD OF DIRECTOR
 Company: Retired
 Position: _____
 Years as D & D Member: 25 Years
 Offices Held: Board of Directors 1997, 1999, 2000 & 2009; Corresponding Secretary 1998, 2002, 2010 and 2013; Recording Secretary 2000 & 2008; Vice President 2003, President 2004; Immediate Past President 2005 & 2006; Treasurer 2007; Parliamentarian 2011
 Club Experience: 10 years Membership Chairman; 1 year Finance Co-Chairman; 11 Years Golf Tournament Committee; 1 Year Fieldtrip Chairman; 1 Year Community Relations; 3 years Scholarship; 1 year Program Chairman; 2 years AIMEE Committee, 6 years GAC
 Association Experience: Region III Director 2009
 Regionals Attended: 15 Conventions Attended: 10
 Business Experience: 35 Years in Oilfield
 Educational Background: High School
 Personal Data: Single, Two grown children and three grandchildren
 Company Support: N/A
 Deadline: September 12, 2018
 Mail your resume to: Judy Guillot
4005 Hillcrest Drive
Marrero, LA 70072
504-347-0022
Judy.s.guillot.lvze@statefarm.com

Desk & Derrick

COMMUNITY SERVICE TO THE GRENA FOOD BANK

COLLECTING MONEY AND FOOD ITEMS IN OCTOBER!

Suggested items:

breakfast cereal, oatmeal, pasta, rice, crackers, flour, grits, healthy snacks
canned vegetables, canned fruits, shelf-stable vegetable or fruit juice
diced tomatoes, tomato sauce, spaghetti sauce, dried fruits, fruit cups
canned tuna, canned beans, dried beans, peanut butter



Oatmeal



grits



cereal



pasta



rice



flour



pasta sauce



crackers



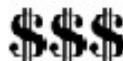
can vegetables



fruit juice



tomato sauce



.....

Gretna Food Bank accepts all nonperishable items.
(i.e., foods that do not need to be frozen or refrigerated)
They prefer non-glass containers for safety reasons.

Please also consider nutritional food items that are low in sodium/salt/sugar.
Whole grain and whole wheat items are also very much needed.
(i.e., bread, crackers, rice, pasta)



2018

CHRISTMAS CARDS FOR OUR SOLDIERS

WESTBANK DESK AND DERRICK

COMMUNITY SERVICE PROJECT

SENDING THOUGHTS AND Wishes AND QUICK RETURN HOME, GOING TO FREEDOMS

WE OF **GOAL MET!** JAL

You can participate by donating by signing as many cards as you can during the Project on Main will continue through October.

CONTACT BONNIE R. WALL 504-362-3 (H) 504-439-60 (C) E MAIL seawall4@cox.net



Coupons for Troops

When something's expired you have to get rid of it, right? Not when it comes to coupons. Did you know?

- **Expired coupons work.**
Save them whether they're active or expired (Not expired more than 3 months). Coupons can be used on overseas military bases for up to six months past their expiration date.
- **Military families benefit.**
Many military families rely on donated coupons to help offset the expense of living overseas.

-- Bagging Instructions --

1. Cut out the coupons.
2. Sort coupons into two piles by status:
 - a. Expired. Not expired more than 2 months. (e.g. if today's date is 3/1/2018, you would cut out coupons with an expiration date that is not older than 1/1/2018).
 - b. Unexpired. At least two months of life left.
3. Sort each of those two piles into four piles by type:
 - a. Food items
 - b. Non-food items
 - c. Baby food/items
 - d. Pet items (like dog food)
4. Stuff them into plastic baggies.
5. Write the status (Expired or Unexpired) and the type (food, non-food, baby, or pet) on them.
6. Total the retail savings of the baggies and write it on them. This helps us track the value of the overall program.

Only "Manufacturer's Coupons" can be used. They can be from the newspaper, dispensers in grocery stores, tear-pads, and elsewhere as long as they state "Manufacturer's Coupon" on them. No assistance vouchers. No food stamps. No store coupons. No restaurant coupons. No Internet coupons.

Thank you for making a difference in the lives of our military troops and their families!



Region III Director's Newsletter



October, 2018

It's hard to believe that after all of the planning, anticipation and excitement about the 67th ADDC Convention in Evansville, Indiana, that it has in fact already come and gone. There you have it – another part of our PAST history. Although we are sad, I'm sure the 2nd Region hosts are enjoying a much deserved (and needed) rest! They certainly know how to host a convention that was very informative, fun and educational. I am sure all attendees are very appreciative of the Tri-State clubs for their hard work.

As we look to the FUTURE of the upcoming conventions, planning is already underway for 2019, 2020 and 2021. Our FUTURE looks very promising as we plan to visit Kansas City, Missouri; Pittsburgh, Pennsylvania and New Orleans, Louisiana, respectively. You will be notified of the exact locations, dates and registration information as time goes on. (Check the ADDC website.)

CONGRATULATIONS to 2019 President, Terry Ligon; President Elect, Keith Atkins; Secretary, Wendy Sparks; Treasurer, Evelyn Green; Immediate Past President, Christina Forth, and all 2019 Directors Elect. I am sure they will all do their best to put Desk and Derrick first and keep their members apprised of what's going on. Don't forget to sign up for a committee on the local, regional and/or association levels– it's your club and can only continue to strive if we as members are ACTIVE members. (Check the ADDC website.)

The Amendments to the Bylaws were voted on at convention and as soon as they have been incorporated into the current bylaws they will be shared with all members. AIMEE winners will also be posted on the website. **CONGRATULATIONS TO ALL WHO ENTERED AND IN PARTICULAR TO THE WINNERS.** There is a wealth of information out there – please take some time to view ADDC's website and see what's going on. By now you should have gotten my message: CHECK THE WEBSITE!!!

THANK YOU to all Region III members for affording me the opportunity to represent you this year as your Region III Director. I hope you all take Cheryl Minear's seminar to heart and take a Leadership role sometime in the near future.

DESK AND DERRICK: ITS PAST, PRESENT and FUTURE!



ASSOCIATION OF
DESK AND DERRICK
CLUBS

Carol Schiavone
Region III Director



Board of Directors

PRESIDENT
Christina Forth
FFAF Cargo

PRESIDENT ELECT
Terry Ligon
I. Chem Tech Company Inc

VICE PRESIDENT
Keith Atkins
Murphy USA, Inc.

SECRETARY
Evelyn Green
GBC Minerals, Ltd.

TREASURER
Wendy Sparks
Carl E Gungoli Exploration Inc

IMMEDIATE PAST PRESIDENT
Maggi Franks
K. & E Computer Services

PARLIAMENTARIAN
Marilyn Carter

REGION I DIRECTOR
Carrie Harmon
Marathon Petroleum

REGION II DIRECTOR
Beth Etzkorn
Dew Drilling Co.

REGION III DIRECTOR
Carol Schiavone

REGION IV DIRECTOR
Sue Weaver
Osborn Heins Company

REGION V DIRECTOR
Andrea McGarrath
BOG Y Resources Inc.

REGION VI DIRECTOR
Casi Nichols
Spur Services LLC

REGION VII DIRECTOR
Tracy Fillmore
Canadian Natural Resources Limited

Christina Forth
President

FFAF Cargo
3160-36 Ave. East
Edmonton Intl Airport, AB T9E
0V6
780-980-0772
Email: christinaf4th@gmail.com

Dear Members,

Where did September go? I think I only blinked once; it is over now.

Thank you, to Region II. What a fantastic convention, lots of hard work paid off. I will always be in your debit for the many hours, planning and commitment you have shown to make convention 2018, one to always remember. Great friendships were created, old friends were seen. I enjoyed visiting with all of you; as much as I could. The pictures are linked to the ADDC website, they can also be found on our face book page. Link is <https://bit.ly/2pprt16>.

It was interesting to see at convention, when I asked the members in attendance how many read all the regional director's letter and my letter. A quarter of the room stood up. With information discovered, I am now (with help) going to try and BLOG. I am not sure how else to fully communicate with membership. I am struggling with this, as we send all the information we can in our monthly newsletters. To those of you that read our letters, thank you. Thank you, as you make them worth the time it takes to write them. We are also struggling with correct emails being on the website, which is our data base that we use. 20% of the emails are not correct. Please take a min to see that your information is correct. You can edit your own, right there on line.

Convention 2019, Kansas City, MO. Convention 2020, Pittsburgh, PA. Convention 2021 New Orleans, LA. More information is posted in the ADDC website, under conventions.

Upcoming projects for this month have been; the reduction of days of convention in 2021. Reduction of Standing and Special committees, the proposal for the ADO office to be part time in 2019. A survey to membership will be coming out shortly, please take time to fill it out. Financial Review committee has started the audit for 2018. Sam Thomas is the chair of this committee. The magic suitcase has been posted on the website. Certification will implement 2 new programs: Transportation and Renewable Energy. Social media, please email Alicia Young if you have content to post. An upcoming field trip, seminar, meeting. Please let her know, then it will be posted to all the ADDC social media sites.

Congratulations to the incoming 2019 Board of Directors are as follows: Terry Ligon – President, Keith Atkins – President-Elect, Wendy Sparks – Secretary, Evelyn Green – Treasurer, Immediate Past President – Christina Forth. The following members will serve as the 2019 Regional Directors: Central Region – Connie Bass, Northeast Region – Donna Siburt, Southeast Region – Evelyn McCurley-Ingram, West Region – Philana Thompson.

Christina Forth

Supporting Energy Education Projects

DC

FOUNDATION

A 501 (c) (3) non-profit educational organization

Theresa Adams
2105 Stall Drive
Harvey, LA 70058

October 2018

Theresa Adams
Chair

Sue Carscadden
Vice Chair

Sheryl Minear
Secretary

Ada Weeks
Treasurer

Judi Adams
Trustee

Natalie McClelland
Trustee

Linda Rodgers
Trustee

Jackie Shaver
Trustee

Website:

www.addcfoundation.org

Dear ADDC Members:

At the 2018 Annual ADDC Foundation Meeting in Evansville, Indiana, the following officers were elected:

- Chairman Linda Rodgers
- Vice Chairman Sue Carscadden
- Treasurer Ada Weeks
- Secretary Sheryl Minear

A huge THANK YOU to these trustees willing to serve as Foundation Officers, dedicating their time and expertise to our organization, ensuring that ADDC Foundation business continues to be handled in an expeditious manner.

Several new trustees were also elected during this meeting. They are:

- Christina Forth, Edmonton Club
- Maggi Franks, West Virginia Club
- Jamie Gilmore, Oklahoma City Club
- Audry Mefford, Oklahoma City Club

The Foundation is delighted that several members reached out to us by responding to my July 2018 letter asking for volunteers to serve as ADDC Foundation trustees. We are grateful that these members are willing to dedicate their time and energy to the Foundation.

The Foundation can only continue to supply funding for projects, regional grants and the Industry Symposia through your contributions. We wish to thank the following donors since April, 2018:

- Bay Area Club – honor of D. Lawrence and S. Buyze*
- Red River Club – honor of J. O'Bannon, L. Pearce, and K. Warziniack*
- Region III – honor of Regional Presenters – R. Fowler, E. Zimmerman, and M. Morgan*
- Ada Weeks – memoriam, Kim Adams*
- Region II – refund of grant plus donation*
- D. Baiamonte – memoriam, Kim Adams*
- Tulsa Club – honor of C. Bannister*

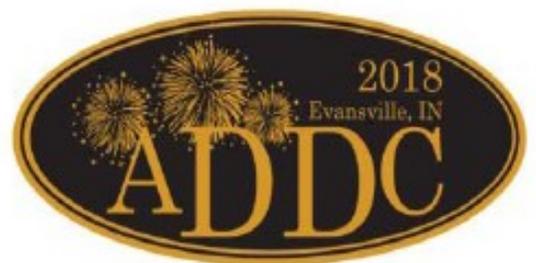
*Tulsa Club – honor of C. Bannister
Natalie McClelland – memoriam, Randy Eharb
Bonnie Fish – memoriam, Randy Eharb
Ada Weeks – memoriam, Randy Eharb
2018 Board of Directors – memoriam, Randy Eharb
Sheryl Minear – memoriam, Kim Adams
Sheryl Minear – memoriam, Randy Eharb
D. Baiamonte – memoriam, Randy Eharb
Red River Club – honor of L. Landry and K. French
Bonnie Fish – memoriam, Kim Adams
Val Williams – memoriam, Randy Eharb*

For Foundation information, please visit our website. You will find detailed information about the Foundation, contact info for the trustees, Contribution Form, and other important information.

As always, we sincerely appreciate your continued support.

Theresa







SHALE STORY: Louisiana

Louisiana is home to an integral piece of the nation's shale gas revolution. The Haynesville shale became the largest producing on-shore natural gas field in the U.S. in 2011 and one of the five largest in

the world. Its development has already generated tens of thousands of jobs and hundreds of millions in state and local tax revenues for Louisiana and an abundant supply of natural gas for the nation.

Haynesville Shale Development in LA by the Numbers



The Haynesville is estimated to hold more than **250 trillion cubic feet** of natural gas



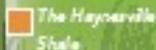
From 2008 to 2010, natural gas production in the Haynesville shale grew from 18 billion cubic feet to 1.199 trillion cubic feet – an **increase of 6,543%**



In 2009, oil and gas firms operating in the Haynesville formation put **\$7 billion** into the state's economy.



In the same year, development of the formation generated more than **57,000 jobs**.

 The Haynesville Shale

Sources: "The Economic Impact of the Haynesville Shale in Louisiana in 2009", Dr. Loren C. Scott & Associates, April, 2010.
"The Haynesville Can Compete", Exploration and Production Magazine, April, 2012.



The five largest shale gas fields ranked by production

- | | |
|-----------------------------|-----------------------|
| 1. Haynesville (LA, TX, AR) | 2. Barnett (TX) |
| 3. Fayetteville (AR) | 4. Marcellus (PA, WV) |
| 5. Woodford (OK) | |

Untapped in 2007, by the middle of 2011 the Haynesville shale emerged as the largest producing shale gas play in the country.

Pennsylvania Oil Rush

The Pennsylvania oil rush began in August 1859 in Titusville, in the Oil Creek Valley when Colonel Edwin L. Drake struck "rock oil" there. Titusville and other towns along Oil Creek expanded rapidly when oil wells and refineries shot up across the region. And, oil quickly became one of the most valuable commodities in the United States; railroads then expanded into Western Pennsylvania to ship petroleum to the rest of the country. By the mid-1870s, the oil industry was well established, and the "rush" to drill wells and control production was over. Pennsylvania oil production peaked in 1891, and was later surpassed by western states such as Texas and California, but some oil industry remains in Pennsylvania.

Pre-Pennsylvania Rock Oil Company

Before petroleum was used as a fuel, oil had many uses. In Pennsylvania, the Native American tribes had used oil from seeps for several centuries. The Native American tribes collected oil for use as ointment, insect repellent, skin coloring and in religious ceremonies. Oil seeps (areas where oil spontaneously escapes the earth in gas or liquid form) were common across northern Pennsylvania. As the frontier expanded into Western Pennsylvania during the 18th century, the region became known for the oil beneath its surface, and maps of the era displayed the label "Petroleum." But, at that time the label served primarily to deter farmers who found the black soil inhospitable to their crops. Crude oil began to be used as an alternative to whale oil for lamps, and inventors and scientists began to test oil for other uses, including energy.

Kier's Experiments with Oil

The petroleum seeps were popping up across western Pennsylvania, and it became difficult for other extractive industries, especially for salt water wells to extract salt. This was a popular process in the area at the time, but with oil from the seeps spilling into the wells, it became much more difficult. In 1849 Samuel Kier, an American inventor and businessman, began extracting oil from the saltwater wells on his property. When Kier recognized that the medicinal oil being prescribed to his wife was the same in chemistry as the oil found in his wells, Kier sold his oil as a remedy and grew wealthy. In the 1850s Kier began to drill for crude oil rather than separating it from salt water. Kier joined up with John T. Kirkpatrick to build the first refinery, where they distilled oil that could be used for lighting. For years after, Kier improved the crude oil refining process to produce the cleanest and most efficient lighting oil, what he called "carbon oil." To accompany his refined oil, Kier invented an oil-burning lamp that burned his oil with little bad odor or smoke.



Samuel Kier

The Pennsylvania Rock Oil Company

News of Kier's experiments and success spread. George Bissell, a lawyer from New York, learned of Kier's success, and in 1854, Bissell commissioned a study from Yale chemist Benjamin Silliman, Jr. to assess the viability of harvesting oil in western Pennsylvania. After Silliman's results confirmed that the petroleum in the Oil Creek Valley could profitably be distilled into lamp oil, Bissell founded the Pennsylvania Rock Oil Company. The company was funded by businessmen and bankers from New Haven, Connecticut. Among the stockholders was banker James Townsend.

In 1857 Bissell and Townsend hired Edwin Drake to travel to Titusville and drill for crude oil. Drake was an unemployed railroad conductor whose qualification for this job seems to have been that he had a free railroad pass that allowed travel to Titusville. Drake secured some land and reported back that he believed the land was oil rich and the oil industry could be extremely profitable. In 1858, the Pennsylvania Rock Oil Company became the Seneca Oil Company with Drake as president.

Drake Strikes Oil

Soon Drake began drilling for oil using an old steam engine in Titusville, near Oil Creek, but at first met with little success. He and his assistant, blacksmith Billy Smith, endured fires, financial setbacks, and the ridicule of the local inhabitants. The Seneca Oil Company gave up and decided to withdraw its funding, so Drake obtained a personal line of credit to continue digging. On August 27, 1859, Drake struck oil at 69 feet below ground, just before his funds ran out. His drilling is considered the "first large-scale commercial extraction of petroleum". Unfortunately for Drake, his success did not last. He did not own much land in the region, and the oil industry exploded around him outside of his control. His first well yielded only modest returns and he was fired by Seneca. He never patented his drilling method, and lost his modest earnings from the oil business speculating on Wall Street. He died a poor pensioner in 1880.

The Rush

Soon the area had many wells drilled by Seneca Oil Company and others. The oil boom in Pennsylvania was much like the gold rush in California ten years earlier. It is reported that in 1859 these wells produced 4,500 barrels. Boomtowns such as Titusville, Oil City and Pithole sprang up within years. Reverend S. J. M. Eaton, a chronicler of the time, observed in 1866 that the Oil Creek Valley was so densely packed it was impossible to distinguish the borders where one town ended and another began. The Titusville population exploded from 250 residents to over 10,000 in little more than five years and in 1866 it incorporated as a city. Iron-works were erected to supply drilling tools and eight oil refineries were built between 1862 and 1868. Pithole expanded from four log-cabin farmhouses to a bustling city with over 50 hotels over the span of five months in 1865.

Annual domestic output of crude grew rapidly, from 2,000 barrels in 1859 to 4,000,000 barrels in 1869 and 10,000,000 barrels in 1873. Industrial development of Europe boosted this rapid expansion. European, and especially British, factories began importing large quantities of cheap American oil during the 1860s. By 1866, US petroleum exports far surpassed petroleum distributed to domestic markets and the value of these exports nearly doubled from \$16 million in 1865 to \$30 million in 1869. Petroleum jumped from the sixth most valuable US export to the second most valuable during this period. At the peak of the oil boom, Pennsylvania wells were producing one third of the world's oil.

Transportation

At the start of the oil rush, high land-based shipping costs drove many well owners to float product down Oil Creek to the Allegheny River as lumber producers did. For decades, logs had been transported using man-made floods, known as pond freshets, along the length of the river. These freshets could carry up to 800 skiffs filled with crude oil downstream at once. Most skiffs held between 700 and 800 barrels of oil, but one third of that leaked out of the skiffs before they were even launched and another third, lost by the time the skiffs reached Pittsburgh. Only 3/5ths of the flimsy vessels survived the trip undamaged by collisions with rocks, fallen trees, or other skiffs. In 1862 a rail line connecting Titusville to Philadelphia was completed by the Oil Creek Railroad Company and the Atlantic and Great Western Railroad connected to Corry, Pennsylvania. The new railroad brought more people into the Oil Creek Valley and provided a safer alternative to the freshets for transporting barrels of crude. The oil was carried from the wells to the railroad in horse-drawn wagons.

. In 1865 pipelines laid from the oil fields directly to the rail line replaced horse-drawn transport. The following year, the Farmers Railroad extended the rail line from Petroleum Center, Pennsylvania to Oil City. In February 1871, the Union City & Titusville Railroad (UC&T), built to compete with the Oil Creek Railroad, was completed and later became part of the larger Philadelphia and Erie Railroad.

Consolidation and End of the Boom

The oil rush to Pennsylvania created violent swings in the petroleum market for the first decade of the oil boom. In 1861, the boom-growth of wells across the Oil Creek Valley pushed the price of oil down to 10 cents a barrel. In response, producers in the region formed the Oil Creek Association to restrict output and maintain a minimum price of \$4 a barrel. Despite efforts such as this to control the petroleum market, the volatile boom-bust cycle continued into the early 1870s. By 1871, refining capacity had grown to over 12 million barrels per year, more than twice the amount of oil that was actually processed in that year. The first oil exchange in the US was established in Titusville in January 1872 in response to rumors that a conspiratorial ring of crude oil traders in New York City had cornered the market. As the decade progressed, larger producers, such as John D. Rockefeller's Standard Oil, began to consolidate their holdings over the wells and refineries in the region, and the oil rush began to settle down.

Pennsylvania oil production peaked in 1891, when the state produced 31 million barrels of oil, 58% of the nation's oil that year. But 1892 was the last year that Pennsylvania wells provided a majority of the oil produced in the US, and in 1895, Ohio surpassed Pennsylvania as an oil producer. By 1907, the decline of the Pennsylvania fields and the great discoveries made in Texas, California, and Oklahoma, left Pennsylvania with less than 10% of the nation's oil production.

By 1901, the Pennsylvania oil boom was over. The formation of the Standard Oil Trust in 1882 effectively established a monopoly over the industry in Pennsylvania, and the discovery of oil in Texas, California and Wyoming shifted the nation's attention elsewhere. Pennsylvania continued to be a significant producer of petroleum for much of the 20th century, but the Oil Creek Valley had been permanently eclipsed.

By Judi Adams



A Pennsylvania Oil Field in 1862

