

March 2018

PRESIDENT'S MESSAGE

LETTER 3



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Dear Westbank Members,

This month is Desk and Derrick Awareness Month, a time to reflect on what D&D means to you – the things you’ve learned, the many places you’ve visited, and the friends you’ve made throughout your journey in pursuit of “Greater Knowledge – Greater Service” since becoming a D&D member. Have you reached out to family and friends and shared your Desk and Derrick vision? I can’t wait to see how many guests attend our upcoming meeting.

I remember the first D&D meeting I attended as a guest. I was hooked immediately, joining the same night. A few months later, I volunteered on a committee and needless-to-say I have been involved ever since.

My most memorable event occurred as member of the Speaker’s Bureau Committee (now known as LRC –Leadership Resource), when I portrayed PetroMolly the clown in the production of “PetroMolly and the Magic Suitcase.” PetroMolly traveled with her suitcase teaching the public, especially young school aged children, about the importance of petroleum products. Clothing and articles made from petroleum were stored in a suitcase until the time came for explaining how petroleum was necessary to produce modern products while performing experiments that revealed how important petroleum is to our lives.

So now that you’ve had time to think about D&D, how has D&D enhanced your life? Let everyone know about the educational opportunities we provide, our community activities, and all the fun things that keep you coming back.

Now’s the time to make your plans to attend the Region III Meeting hosted by the New Orleans Club in Metairie, LA; April 4-7, 2018. Don’t miss the many opportunities to learn and experience our industry.

Remember.....*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

**February
Meeting 50/50
Winner
JoAnn Brown**



2018 MEETING SCHEDULE

Board Meetings

January 17

March 21

March 21

April 18

May 16

June 20

July—No Meeting

August 15

September 12

October 17

November 7

December 5

Membership Meetings

January 24

February 28

March 28

April 25

May 23

June 27

July—No Meeting

August 22

September 26

October 24

November 14

December 11

March Birthdays

Cora Bergeron 12th

Sigrid Vedros 14th

Vera Ledet 26th



MARCH 2018

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11 Spring Forward!	12	13	14	15	16	17 St. Patrick's Day
18	19	20	21 Board	22	23	24
25	26	27	28 Member	29	30 Good Friday	31

History Review—The Harvey Canal

1725 - Land grant awarded to Jean Baptist de Estrehan de Tour and ditch dug by his slaves.

1800 to 1845 -

Canal widened and deepened by German Settlers

Lumber barons and Jean Lafitte use the Canal to reach New Orleans from Gulf of Mexico

1845 - Louise Destrehan marries Joseph Harvey; name of Canal and small town changed to Harvey.

1880 - Harvey begins building the locks.

1889 - Louise Harvey sells the locks to family and work begins anew.

1907 - Locks are completed

1924 - Locks and Canal are sold to the U.S. Government .

1934 - Canal is dredged

1940's - Canal, as part of the Intracoastal Waterway, is used to safely transport our troops.

1946 - The Harvey Canal Industries Club is formed to fight for civic improvements, etc.

1954 - The Harvey Canal Industrial Association is founded.

1950s - 1980's -- Harvey Canal produces enormous fortunes for many of the land owners and manufacturers/builders.

1980's - The oil industry bust causes many companies to leave area.

1990-2005 - The Canal was experiencing growth again. The economic impact for the State was approximately 1 billion dollars a year through the early 2000's

Today, the area is still an important area for our Parish and our State coffers. Consider that the Westbank of Jefferson is poised for immense growth potential. The Westbank is the only area of the parish with large property acreage to encourage companies to develop manufacturing plants, etc.

Month	January	Feb	March	April	May	June
Date	24th	28th	28th	25th	23rd	27th
Speaker	Charles Miller	Theresa Adams	Judi Adams	Angie Duplessis		
Company	Waring & Associates					
Topic	OCS-BBS	Harvey Canal History	Drill Bit to Burner Tip	Oil Field Trivia		
Invocation	Judi Adams	Zelda	Susan	Vera	Linda	
Introduction	Judi Adams	Judi	Theresa	Zelda	Debbie	Theresa
Theme	Carnival Time	Local History	D&D Awareness	42nd Anniversary	School's Out	IAN/ Scholarship
Decorations	Judi Adams	Judi	Judi	Judi	Linda/Debbie	Cora/Cheryl



Guest Speaker
Theresa Adams



President Angie Duplessis presents certificate of appreciation to Theresa Adams



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!



Desk & Derrick

Community service to the

Bonella A. St. Ville Elementary School

With just a few months left to the school year, the teacher is in need of FAT pencils w/erasers & large crayons.

The teacher would also like to take the class on a field trip/picnic before the end of the school year and is in need of funds to cover transportation.



Angie will be collecting cash donations at the April meeting.



Desk & Derrick

COMMUNITY SERVICE TO THE

GRETNA FOOD BANK

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



PLEASE BRING FOOD AND MONETARY DONATIONS TO MEETING

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 FOR HAPPY HOLIDAYS, SAFE AND QUICK
RETURN HOME, GOD'S BLESSING, THANKS FOR PROTECTING OUR FREEDOMS

**WE ARE SETTING A GOAL
OF 2018 CARDS IN 2018!**

You can participate by donating new cards with envelopes and by volunteering to sign as many
cards as you can during the year. Project starts in March and will continue through October.

CONTACT BONNIE R. WALL 504-362-3671 (H) 504-439-1650 (C) E MAIL seawall4@cox.net

Region III Director's Newsletter

Carol Schiavone
Region III Director

pschiavone3@cox.net

Lois Folse
Baton Rouge

Eugenia Palculict
El Dorado

Kathy Martin
Lafayette

Jessica Wade
Laurel

Charlotte Ratcliff
Morgan City

Kathy Gowland
New Orleans

Sheryl Cole
Red River

Angie Duplessis
Westbank

March, 2018

As we work feverishly trying to tie up loose ends for our upcoming Region III meeting, we as a group have learned what it's like to pull together to really get the job done. As we assign tasks, there has never been a single member who hasn't stepped up to the plate, not only getting their share of the work accomplished – but asking what they can do next to help in any other capacity.

March 5th is the deadline to register for Region III without paying the late fee. Please get your registration in timely. Remember, this is the very last Region III meeting as next year this area will be known as "Southeast Region". Not only are we making history by way of restructuring, we are making new memories and friends along the way – in addition to rekindling many treasured friendships. We are all a part of a very dynamic industry organization and are looking forward to growth through new membership as well as many educational experiences along the way.

The Nominating Committee Representatives from Region III, along with the two Representatives from the Texas Clubs who will be merging into the newly formed Southeast Region for 2019, (Corpus Christi, Houston, San Antonio, NHMC and Victoria) should be soliciting nominee(s) for Southeast Region Director – 2019. If you feel you are interested, please get in touch with your Club President(s) and let them know. They will be more than happy to assist you in putting your name out there.

Let us keep in mind that also very important to our organization are all the "Seasoned" members, if you will. They have knowledge and a wealth of information to share with all of us. This year alone I noticed that a couple of the club presidents for 2018 are not only former club presidents, but also former Region Directors and even a former ADDC President. Thank goodness for "recycling". Thank you to all our "Seasoned" and experienced members for being there to guide us and share your expertise. You are a treasure and asset to this organization.

Don't forget to check out the latest issue of INSIGHT as our ADDC President, Christina Forth, has some very informative issues that were addressed in her letter.

Carol Schiavone



ASSOCIATION OF
DESK AND DERRICK
CLUBS

WHAT'S HAPPENING IN REGION III

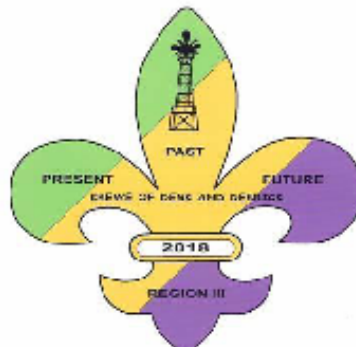
ASSOCIATION OF DESK AND DERRICK CLUBS
REGION III MEETING
DESK AND DERRICK CLUB OF NEW ORLEANS

Metairie, Louisiana
April 4th thru 8th, 2018

Registration Packet

Available online or contact Judi or Angie for copy.

Hope to see everyone there!





Board of Directors

PRESIDENT
Christina Forth
FFAF Cargo

PRESIDENT ELECT
Terry Ligon
L Chem Tech Company Inc

VICE PRESIDENT
Keith Atkins
Murphy USA Inc.

SECRETARY
Evelyn Green
GBC Minerals, Ltd.

TREASURER
Wendy Sparks
Carl E Gungoll 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
Dee Drilling Co.

REGION III DIRECTOR
Carol Schiavone

REGION IV DIRECTOR
Sue Weaver
Osborn Helm 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

36 Shores Drive
Leduc, AB T9E 8N7
780-887-0450
ChristinaF4th@gmail.com

February 12, 2018

Dear Membership,

We thought it would be best to allow a response to be given regarding the **finance committee review**. This will be forthcoming in the next few weeks. In the meantime, we are moving forward with plans for the year.

I can honestly say, that over the last 15 years membership has declined. There was never any insight into how to create different revenue streams until this year. No company nor non-profit would ever run a business entity with one revenue stream. This would be suicidal to any organization to rely so heavily on one income. That is what we have done for the past years.

The vision going forward is to create more than one revenue stream. Tracy and Carrie are working on an advertising package, asking companies to advertise with us. As well as a Corporate Sponsorship program. **We are working** with Joyce and the Midland Club to provide a package to present to other corporations. Seeing what corporations need from their side of the table and being able to work with them. The Certification program, with Nell and the **GAME Team**, trying to bring it online and have it be a certified program. We have an **online auction** coming up, where you can bid on items—some old items from the ADO or items donated to the Association. Nell and Tammy are also working on looking at other organizations **and** social groups **to see** what we are competing with. What do they do, could we partner with other organizations out there?

Judi Adams is working on a Mentorship group. If you are interested in any way, please contact her. We are working on the realignment and all the steps needed to make the transition happen. We have also worked on the **Vice President** duties and will reassign them as well. We have implemented **Dropbox** for all our data **storage and access for use** at Board level, Regional level, and Committees level. This way, information will no longer go missing or not be passed on. We now have history being created for next year's Board. The Energy Activity Books have been updated. Version 3 is now available for purchase. **This is a revenue stream you can all help with**. The ADO has moved, but we are still registered in OK. Banking in OK. The Accountant and Investment personal are in OK.

Shortly the Board will be working on a 3-year plan that is our intention to share with membership. Anytime you start a business plan, you need to know your history. That is what the review committee has done. It has told us our past, and now we need to work on the future.

We need to move ahead in a new direction. **Eliminating the DDJ** will save the Association huge dollars and be replaced with the **ADDc Insight**. We need everyone on board who love this Association as much as I do, to bring forward your ideas and suggestions. We need help with the realignment, the writing of our new fund bylaws. There is lots of work to be done. This Board has been amazing through so much change and hardship. I am truly blessed to be working with all of them. Lots of hours were **spent** at B&P. 25 hours in 2 days took a toll on all of us. Just as 700 hours of the Board's time was donated in January.

Let's move ahead....

Christina Forth



Board of Directors

PRESIDENT

Christina Forth
FFAF Cargo

PRESIDENT ELECT

Terry Ligon
L. Chem Tech Company Inc

VICE PRESIDENT

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Murphy USA, Inc.

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BDG Y Resources Inc.

REGION VI DIRECTOR

Casi Nichols
Spur Services LLC

REGION VII DIRECTOR

Tracy Fillmore
Canadian Natural Resources Limited

Wayne Ammons
Business Manager

Association of Desk and Derrick Clubs
Association Distribution Office
P.O. Box 777
Jane Lew, West Virginia 26378

Phone (405) 543-3464

Email ado@addc.org

Website www.addc.org

2018 is swiftly progressing down the track! The ADDC [Regional Meetings](#) schedule heats up in March with meetings being finalized. [Region I](#) and [Region II](#) have both published their sponsorship letters and forms and their registration packets. The [Region III](#) meeting will take place the first weekend in April. [Region IV](#) and Region V will both be a mere two weeks later. Be on the lookout for the remaining [Regional Meetings](#) sponsorship opportunities and registration packets to be published in the near future.

Membership renewals are steadily arriving at the [ADO](#) and are being processed. I sincerely appreciate all clubs' efforts to get their renewals in by the deadline of February 28. Do not fear if you miss the deadline, because we will continue to accept renewals on an ongoing basis. We encourage all clubs to stress to their members the importance of membership renewal and the benefits of ADDC as a premier provider of energy education and professional development in the petroleum, energy and allied industries.

We have started receiving orders for the newly-published **third edition** of the [Bit of Fun Energy Activity Book](#). It is a great educational tool for teaching the younger generation how oil and gas affects their lives.

We recently renamed the **30th Mailing** webpage as [ADDc Monthly News](#) to alleviate confusion and to make it easier to find information on the website. **Check it out!**

Speaking of websites, I was a wee bit premature last month about the Convention photos being available for purchase. We are experiencing technical difficulties with the photographer's website for purchasing the Convention photos. Our attempts to contact the photographer about his website and/or directly obtaining the photos via phone or email have been met by the chirping of crickets.

Please be sure to timely submit your club [Program Report](#) (PROG1) each month to your regional [Program representative](#). ADO keeps these reports on file as proof for the IRS that ADDC is continuing educational programs as required for our 501c8 classification. If you have any questions regarding the completion of the [Program Report](#) (PROG1) form, please do not hesitate to contact your regional [Program representative](#) or [ADO](#). We are happy to assist you in any way that we can.

For any clubs that have not yet done so, could you please submit your [New Club Officers](#) (ADO31) form. This form is now **past due**. If you are not sure, could you please check with your [Region Director](#) as they have recently been provided a list of non-compliant clubs.

I am looking forward to helping with organizational development this year. The [ADDc Board](#) is looking at ways to grow the Association on a perpetual basis. If anyone has any suggestions for economic and membership growth, please call or email me—or any ADDC Board member—with those suggestions. **We're all in this together**, so if we all work together we'll have a great, strong Association for years to come.

I continue to work on updating all forms on the Association and regional websites with the **new** [ADO postal address](#). Once I have updated all forms, I will provide an update to you via another early-2018 Business Manager newsletter. Your patience during our transition has been—and continues to be—greatly appreciated.

Let's keep ADDC great!

Wayne Ammons
Business Manager



Board of Directors

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BOG Y Resources Inc.

REGION VI DIRECTOR
Casi Nichols
Spur Services LLC

REGION VII DIRECTOR
Tracy Pillmore
Canadian Natural Resources Limited

Lori L. Landry
Nominating Committee Chair

P. O. Box 52726
Lafayette, LA 70505
337-806-9355 O
337-288-9440 C

llandry@wkprod.com

February 21, 2018

To: All Club Presidents

RE: Nominations for 2019 ADDC Officers

The 2019 Officers of the Association of Desk and Derrick Clubs will be elected at the 2018 ADDC Convention to be held in Evansville, Indiana. The ADDC Nominating Committee is currently accepting nominations for the following 2019 ADDC Officers:

President-Elect

Secretary

Treasurer

The deadline for all nominations to be received by the Nominating Committee Chair is **June 8, 2018**. Any nominations received after that date will not be considered by the Nominating Committee.

Requirements and procedures for submitting nominations and the duties of the Officers are described in the Association Bylaws and can be found on the ADDC website in the Guidelines section. All candidates for nomination to ADDC offices shall:

1. Have served or be serving as Regional Director
2. Be employed in the petroleum, energy or allied industries
3. Be bondable

The ADDC Officer Nomination Forms are available in the Forms section of the Members Only pages of the ADDC website (addc.org).

Please send all nominations by the **June 8, 2018** deadline, including NOMN1, NOMN2 and NOMN2A forms, along with a photo of candidate to Lori Landry, Nominating Committee Chair, via mail at the address above or via email to llandry@wkprod.com.

Lori L. Landry

**ASSOCIATION OF DESK AND DERRICK CLUBS
ADDC Officer Nomination Form**

Club:

Region:

President Name:

Address:

City, State, Zip:

Phone:

e-Mail:

The Club has voted to submit the following nominee(s) for Association Office for the year	
Office:	Nominee:
President Elect	
Secretary	
Treasurer	

See Nominating Committee official letter for deadline, mailing/e-mailing address, and further instructions.

Nominations may be submitted via mail or by email.

Nominations submitted via mail, UPS, FedEx, etc. should contain three (3) sets of all items listed below.

Nomination(s) submitted via email should have one (1) set of all items listed below as attachments.

All nominations must include:

NOMN 1 - ADDC Officer Nomination Form

NOMN 2 - Candidate's Qualifications Form

NOMN 2A - Candidate's Goals (100 words or less)

One photograph (color preferred)

Signed:

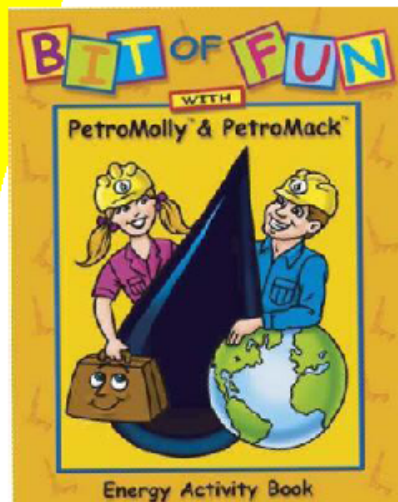
Club President

ASSOCIATION OF DESK ND DERRICK CLUBS 2018 BUDGET AND PLANNING HIGHLIGHTS JANUARY 19-20, 2018

- General Consent given for February 15, 2018 as the deadline for submitting proposed amendments to the ADDC Bylaws and/or Standing Rules for presentation to the delegates at the 2018 ADDC Convention.
- General Consent for June 8, 2018 as the deadline for receiving nominations for the 2019 ADDC Board.
- General Consent to reprint 7,000 copies of the corrected EAB's to be sold at a price of \$3.00 per copy.
- Brainstorming session – The Board discussed current ADDC Issues and possible resolutions.
- Presentation of the Finance Review Committee Report to the Board of Directors. The Committee reported the findings of the review for the 2015, 2016 and 2017 financial information. The Committee is to prepare a final report to be given to the Board to review. Members will be provided a copy of the Committee Report, upon the completion of the review by the ADDC Board.
- General Consent to approve the stipend for the 2020 Convention.
- Brainstorming session – The Board established a plan for 2018, with the President assigning tasks to the Board of Directors, ADDC Committees, Regions and Clubs.
- Brainstorming session – The Board discussed the Realignment of the new Regions. Regions will receive instructions regarding the division of the Region Funds, currently held by each prospective Region. Regions will receive instructions regarding the election of the 2019 Regional Director for each respective new region, re-writing the Regional bylaws, and rotation schedules.
- General consent to approve the employment contract of ADDC Business Manager, Wayne Ammons.
- General consent to use Mike Gray, CPA, to conduct the annual accounting review for the Association.
- General consent for deadline of September 4, 2018 for submitting the Credentials (CRE1) for Convention.

- General consent for 2018 ADDC Board Members to personally pay their 2018 Registration Convention fees.
- General consent to give out one Distinguished Service Award (DSW and one Special Achievement Award (SAA)
- General consent to form an ad hoc committee of Past Presidents to update our Articles of Incorporation

Don't miss this important **FREE** copy!



- Fun, fact-filled book for all elementary age children
- Designed and created by the energy professionals
- Great tool to compliment school group tours through the museum
- Cost-effective book

CONTENTS:

Fun characters
Story line
Games
Coloring book
Experiments

...education disguised as fun!

**COST
EFFECTIVE**
\$3.00 each

*Quantities of 1000
or more \$2.50 each*

The Association of Desk and Derrick Clubs (ADDC) celebrates more than sixty (60) years of service to the energy industry. A non-profit organization comprised of individuals employed in or affiliated with the petroleum, energy and allied industries located throughout the United States and Canada.

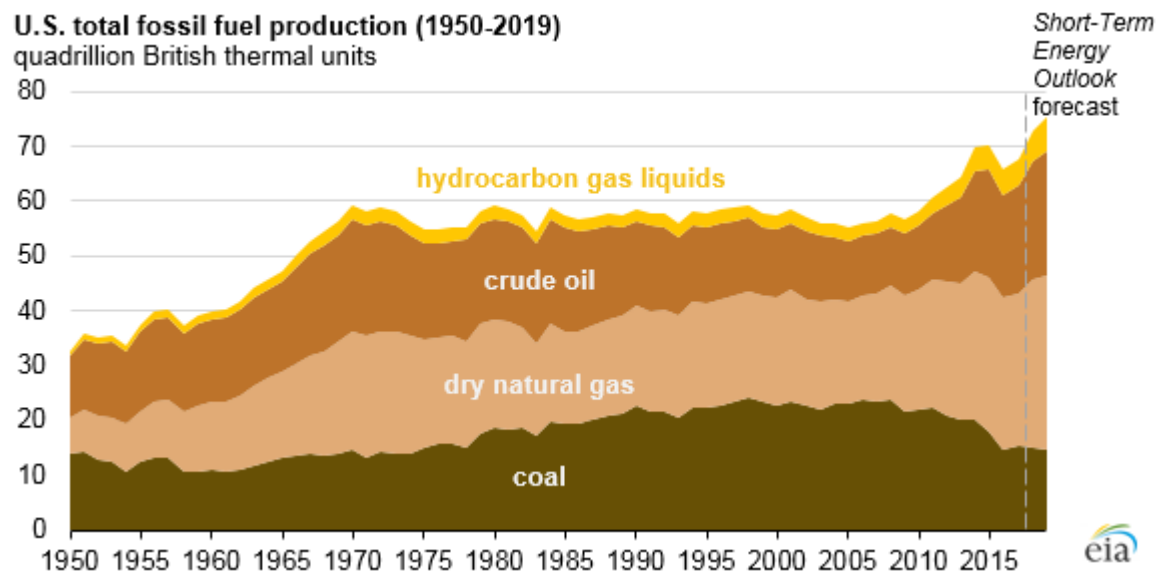
We are proud to present our "Bit of Fun" Energy Activity Book designed to promote education about the oil and gas industry. A great tool to compliment your existing educational materials available throughout the museum. Education is what we are all about and so are you!

It's amazing, isn't it? It seems that every day, we hear discussions about the energy world and the challenges for our future. It's enough to make any person's head spin! That's why it is important to order your supplies now. Follow along with PetroMolly™ and PetroMack™ as they tell the story of how hydrocarbons and their byproducts are used to make modern products we use every day.

We guarantee both our quality and on time delivery of shipments and our prices are very competitive. For more information, please go to our website at www.addc.org or contact the Association of Desk and Derrick Clubs by phone at 405-543-3464 or by email at ado@addc.org

Association of Desk and Derrick Clubs
P.O. Box 777
Jane Lew, West Virginia 26378
405-543-3464

EIA expects total U.S. fossil fuel production to reach record levels in 2018 and 2019



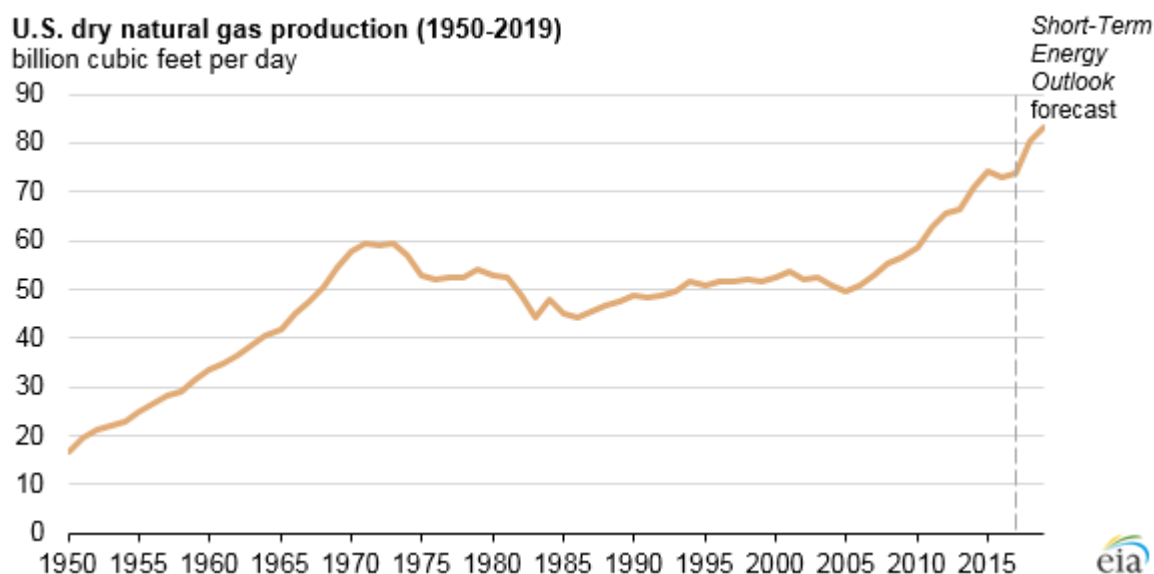
Source: U.S. Energy Information Administration, *Monthly Energy Review* and *Short-Term Energy Outlook*

In its January 2018 *Short-Term Energy Outlook* (STEO), EIA forecasts that total fossil fuels production in the United States will average almost 73 quadrillion British thermal units (Btu) in 2018, the highest level of production on record. EIA expects total fossil fuel production to then set another record in 2019, with production forecast to rise to 75 quadrillion Btu. Fossil fuels include dry natural gas, crude oil, coal, and hydrocarbon gas liquids (HGL). Although EIA tends to express fossil fuel production in physical units, such as cubic feet for natural gas, barrels for oil, and tons for coal, expressing production in heat content allows for comparisons across fuel types.

Record production levels are largely attributable to increased production of natural gas and crude oil enabled by the use of hydraulic fracturing techniques in tight rock formations. EIA expects increases in natural gas production to be the leading contributor to overall fossil fuels production growth in 2018 and increases in crude oil production growth to be the leading contributor in 2019. In both years, expected growth in natural gas, crude oil, and HGL production more than offset expected declines in coal production.

On a heat-content basis, dry natural gas accounted for the largest share of fossil fuel production in 2017 at 41%. Crude oil accounted for 29%, coal for 23%, and HGL for the remaining 7% of the total. As recently as 2010, coal was the leading source of U.S. fossil fuel production, but it was surpassed by dry natural gas in 2011 and by crude oil in 2015.

In 2018, EIA forecasts dry natural gas production will average 80.4 billion cubic feet per day (Bcf/d), an increase of 9% from 2017 levels. If achieved, this level of production would be the highest annual average on record, surpassing the previous record of 74.2 Bcf/d set in 2015. EIA forecasts dry natural gas production will set another record with 83.0 Bcf/d in 2019. Growth is likely to be concentrated in Appalachia's Marcellus and Utica shales along with the Permian Basin in Texas and New Mexico.

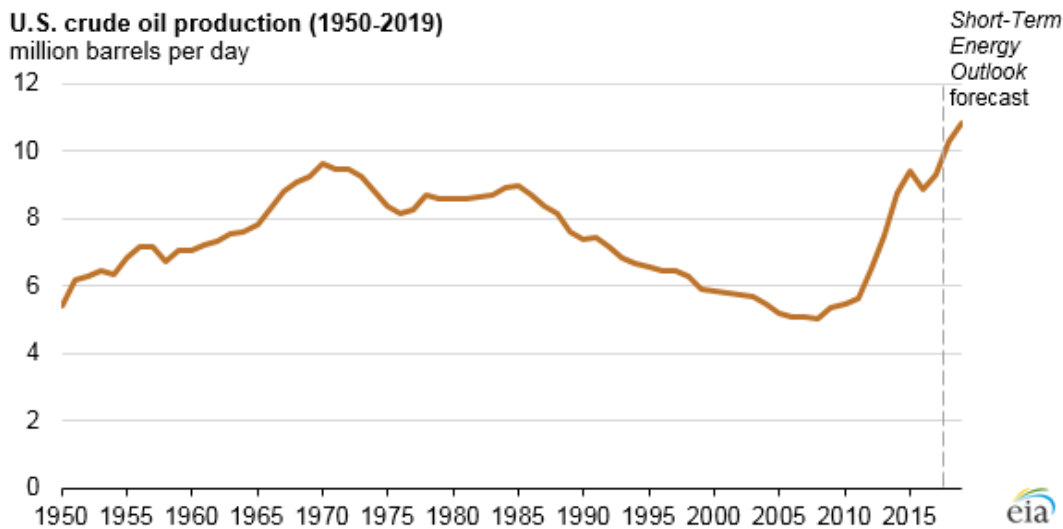


Source: U.S. Energy Information Administration, *Monthly Energy Review* and *Short-Term Energy Outlook*

EIA expects total U.S. crude oil production to average 10.3 million barrels per day (b/d) in 2018, up 10% from 2017. If achieved, this would be the highest annual average U.S. oil production on record, surpassing the previous record of 9.6 million b/d set in 1970. In 2019, EIA expects crude oil production to continue to increase, reaching an average of 10.8 million b/d. Increased production from the Permian region in Texas and New Mexico accounts for most of the projected increase in the U.S. total. EIA also expects a significant contribution to crude oil production growth from the Federal Gulf of Mexico, as seven new oil-producing projects are slated to come online by the end of 2019.

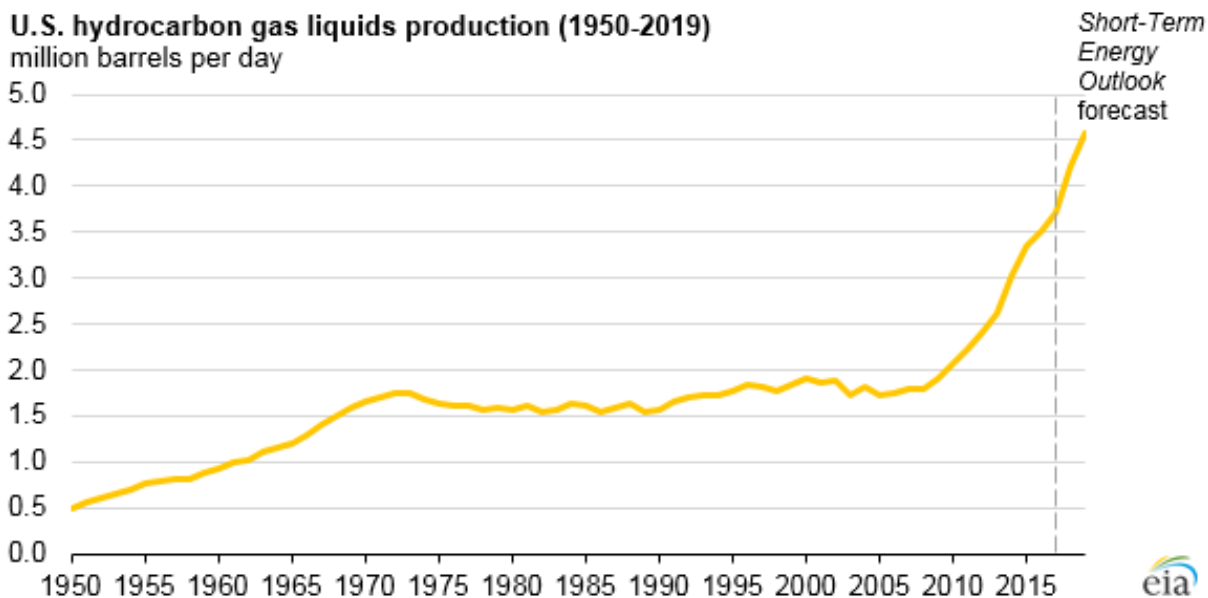
Energy is Everything: Think about energy. It's all around us – in fuels and products that make life better, more comfortable. Yet energy's value goes even deeper: What do you want to do? Where do you want to go? What do you want to become? Energy is integrally involved in the answers to all three. It's absolutely fundamental to both prosperity and opportunity.

Today, electricity is available virtually everywhere in the U.S., and conveniences are broadly affordable. Energy plays its part. Conversely, even in a 21st century world, more than 1 billion people around the globe lack access to electricity and more than 2 billion are without clean cooking facilities – and their lives are a struggle. Energy is foundational to broad, societal progress – but also to individual prosperity.



Source: U.S. Energy Information Administration, *Monthly Energy Review* and *Short-Term Energy Outlook*

EIA forecasts coal production will total 759 million short tons (MMst) in 2018, down 2% from 2017. Coal production is expected to fall to 741 MMst in 2019, a further 2% decline from 2018. In both years, EIA expects production declines in the Appalachia and Western producing regions to be partially offset by production increases in the Interior producing region. U.S. coal consumption also is projected to fall the next two years. About 90% of domestic coal consumption occurs in the electric power sector, and EIA expects relatively low natural gas prices to reduce demand for coal used to produce electricity. EIA expects demand for U.S. coal exports to fall in 2018 and 2019 after a slight increase in 2017. Growth in crude oil production, especially in the Permian Basin, is projected to result in increased associated natural gas production and to contribute to growing HGL production at natural gas processing plants. EIA forecasts HGL production will average 4.2 million b/d in 2018 and 4.6 million



Source: U.S. Energy Information Administration, *Monthly Energy Review* and *Short-Term Energy Outlook*



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Desk and Derrick Club of the
Westbank
P.O. Box 2875
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Editor: Judi Adams (dandd.judi@gmail.com)