Published by the Desk and Derrick Club of Tulsa

www.tulsadandd.net

MEETING CHALLENGES

FLASHBACK

The first U.S. patent for an offshore oil drilling rig is issued to Thomas Rowland, owner of Continental Iron Works in Greenpoint, New York, for his "submarine drilling apparatus."

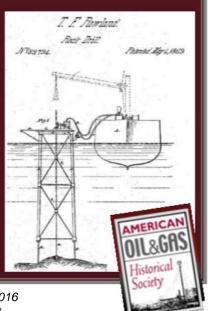
Many experts believe this remarkable 1869 patent will help inspire the beginning of offshore exploration. Rowland's design for a fixed, working platform for drilling offshore to a depth of 50 feet presages modern offshore technologies.

Although his rig is designed to operate in shallow water, the anchored, four-legged tower resembles modern offshore fixed platforms. Rowland and his Continental Iron Works also will become a leader in petroleum storage tank design and construction. The Thomas Fitch Rowland Prize is instituted by the American Society of Civil Engineers at its annual meeting of 1882.

The earliest true offshore wells completely out of sight from land will not be drilled until 1947 in the Gulf of Mexico, as technologies advance after Rowland's patent. See Offshore Rig Patent.

Although never constructed, Thomas Rowland's 1869 offshore drilling platform with telescoping legs was ahead of its time.

Borrowed from the May 2016 issue of the ADDC Insight











Inside this issue:

Index	1
June Program Page	2
2016 Officers and Chairs	3
President's Letter	4
May Presentation Recap	5
Strike a Pose (Meeting Pictures)	6
2016 Region VI Meeting	7-9
Mayfest Fossil Dig	10
SPOTLIGHT	11
Upcoming Events	12-14
Important Info	15
Leaders' Letters	16-17
Fun Facts	18
what's happening	19
In Closing	20

Did you miss this interesting article?

Then you need to log onto www.addc.org. This, and many other interesting facts and information, can be found within the pages of the ADDC Insight, posted monthly. AND, they can be accessed without a Member password. Just click on Our Publications.











Greater Knowledge









Introduction to Geologic Rock Types

(or "Why you don't find oil in styrofoam")

We will get a better understanding of all main rock types
(sedimentary, igneous and metamorphic); lithification or how beach
sand becomes hard "rock" and then how layers of rocks get

deformed (bent and broken).

Robert W. Von Rhee Managing Partner KVR Energy, LLC

June Luncheon Meeting

Wednesday June 8, 2016 at 11:30 a.m. The Summit Club 15 W. 6th Street 31th Floor of BOA Building Downtown Tulsa

Luncheon Includes: Buffet,

Tea, Coffee & Dessert

*Free Parking

NOW ACCEPTING CREDIT CARDS!

Cost:

Members-\$27 \$2 discount for cash/check Non-Members-\$30

Make your reservations NO LATER THAN

5:00 p.m. on Friday, June 3rd with Laura Disinger, reservations@tulsadandd.net or 918-845-8365

*Parking garage entrance off Boulder. Get ticket and have it validated at check-in. Mr. Von Rhee received his BA cum laude, Honors in Geology from Lafayette College in 1975 and MS in Geology from the University of Illinois in 1977.

Upon graduation, Mr. Von Rhee joined Exxon Co. USA in Midland, Texas as an Exploitation Geologist. From 1980 to 1993 Mr. Von Rhee worked for several Oklahoma City and Tulsa-based independents as an Exploration Geologist and later as an Independent Geologist engaged primarily in the generation of drilling prospects and the exploitation of producing properties.

Since 1993, Mr. Von Rhee served first as Chief Geologist for Tide West Oil Company, and later Sapient Energy Corporation, responsible for the exploitation of acquired properties. In 2000, he co-founded KVR Energy LLC, an Oklahoma oil and gas producing company. From 2002 to 2004, Mr. Von Rhee was a founding partner and Vice President of Geology for Rockford Energy Partners, LLC. Mr. Von Rhee is now Managing Partner for KVR Energy, LLC. KVR Energy's primary focus is the acquisition of under-developed producing properties and the generation of drilling prospects in the greater Midcontinent.

Mr. Von Rhee has 39 years' experience in the Mid-Continent, West Texas, and other on-shore producing basins. He is a Certified Petroleum Geologist by the American Association of Petroleum Geologists, and member of the Society of Petrophysicists and Well log Analysts. He also currently serves as a Research Associate and Adjunct Instructor at the University of Tulsa where he has taught classes in Entrepreneurial Geology and Subsurface Mapping Methods. Mr. Von Rhee is also past President of the Tulsa Geological Society and a current President of the Tulsa Geological Society Foundation. He and his family have made Tulsa their home since 1984.

Mr. Von Rhee will be bringing some fossils from his collection.



Members and guests **must** make a reservation for meal functions by emailing or calling the contact chairperson, Laura Disinger at www.reservations@tulsadandd.net or (918) 845-8365. Members may attend the meeting only – no meal for no fee, but please do let the Contact Chairman know ahead of time. You should do so by the Friday prior to the meeting. All attendees need to make a reservation.



Desk and Derrick Club of Tulsa

2016 Officers and Chairs



Officers/Board

President Karen Gibbs Vice-President Mary Williams Secretary Jill Klein Treasurer Jonathan Slav Parliamentarian Val Bode Immediate Past President Vicki Barnes Director 2015-2016 Laura Disinger Director 2015-2016 Betty Hodge Director 2016-2017 Alex Schellhorn

Standing Committees

Director 2016-2017

Kay Williams Bulletin Bylaws Kris Russell Contact Laura Disinger Convention Jill Klein Education Vicki Barnes Membership Jill Klein Orientation Kay Williams Program Vicki Barnes Dee Jansen **Public Relations** Roster/Website Val Bode Scrapbook **OPEN**

Social Brenda Bennett & Susan Cook / Co-Chairs

Kay Williams

Special Committees

Abbreviator Gave Marrs ADDC Awards Vicki Barnes ADDC Nominating Board Elects in April Student Outreach/Scholarship Alex Schellhorn Fundraising Laura Disinger Golf Tournament Laura Disinger Historian Dee Jansen Industry Appreciation Luncheon (IAL) Mary Williams

Nominating Board Elects in August

Tally Kay Williams
Vision Mary Williams







Desk and Derrick Club of Tulsa

Well, here we are at the half way mark of 2016. Time surely flies by when one is having fun.

And fun we have had! Our Club has just completed many volunteer hours by some of our members, working the KidsZone Fossil Dig downtown at Mayfest, helping Dr. Norman Hyne in encouraging young and eager minds search for ammonites, crinoid stems, sand dollars, shark teeth, and the like. What an awesome and precious opportunity we have shared.... touching our future! There were many children, of all sizes and ages, who were drawn to the big sand lot in the middle of expansive cement and asphalt, concrete buildings, and skyscrapers to plunge their hands into the cool sand, digging for fossils and precious rocks. Who doesn't love a sandbox? Thank you to those who chose to exhibit their commitment, support and willingness to "get their hands dirty", along with their countless hours in volunteering. Dr. Hyne truly appreciates the help from the Desk and Derrick Club of Tulsa, and depends on our participation in this event each year. We are clearly all about community. And in doing so, we've certainly kept up the Greater Service.

For the Greater Knowledge, last month our speaker, Jean Antoindes, was such a spellbinding speaker with his presentation and information concerning Oklahoma and earthquakes; if you weren't there, you missed one of the best speakers our Club has been so fortunate to have. Thank you to those who were instrumental in securing Jean. I hope he'll come back and provide even more statistics, as we could have stayed and listened longer. We had more questions to ask!

And more Knowledge awaits us at the 65th Annual ADDC Convention, September 21-24, 2016 in Denver Colorado, at the Crowne Plaza Hotel. This year's Convention is being hosted by the Region VII Clubs. There are already some of our members registered to attend. Won't you also add these dates to your calendar, and consider being a part of this time together, learning and sharing our experiences for continued growth in our Clubs?

The June 8th Membership meeting will feature Bob VonRhee, presenting Intro to Geologic Rock Types. Be sure and secure your reservation by emailing <u>reservations@tulsadandd.net</u> by Friday, June 3rd. I hope to see you there!

Karen Gibbs

May Presentation Recap



The Relationship of Major Aquifers to Earthquakes in the U.S.

by Val Bode



At our May membership meeting, we were pleased to welcome as our speaker, Jean Antonides, President of Okeanos, Inc, which is a consulting and investment company primarily involved in Oklahoma oil and gas operations. Mr. Antonides is a highly experienced Geologist who has done a massive amount of research on the relationship of major aguifers to earthquakes in the United States.

Our earth's surface is made up of plates, giant pieces of crust that can move and crash into each other, creating earthquakes and other geological events (to learn more, Google "Tectonic Plates"). In recent years, the increase in horizontal drilling with its use of saltwater drilling fluids, along with the use of waste water injection wells, has caused the Oil & Gas Industry in the U.S. to become the "Bad Guy" in regard to earthquakes, particularly in Oklahoma.

But wait . . . there are other things going on within and around our planet. Mr. Antonides' research shows that where data is available, there appears to be a correlation between locations of earthquakes in his study and the major groundwater aguifers in the U.S. The timing of these events also seems to correlate to periods of relatively sudden changes in groundwater levels within these aguifers.

As an example, the Oklahoma earthquake on November 5, 2011, centered north of Prague, Oklahoma was a magnitude M 5.6 event that was felt up into Illinois. This area was considered to be in extreme drought conditions prior to the earthquake. Two major rainfalls occurred between October 9 and 10 and October 27 and 28 in which cumulative rainfall amounts of more than five inches were experienced. This precipitation occurred over the Garber-Wellington aquifer that services the Oklahoma City area. In addition to the timing of the two rainfalls, the area experienced low vegetation counts and dry ground conditions. This contributed to a perceived higher-than-normal absorption rate for the drainage basin area supplying primarily the Garber-Wellington aguifer and, to a lesser degree, the Ada Vamoosa aguifer. Combined rainfall amounts of more than 800 thousand acre-feet fell over these



aguifers in this period. To put that amount of water in perspective, one acre-foot of water is equal to 43,560 cubic feet or 326,000 gallons, and weighs 2.7 million pounds. Multiply that by 800,000 and one can see the immense pressure on the earth's crust in a relatively concentrated area, creating an incredible amount of energy that could result in a significant earthquake. The potential effect of several active hydraulic fracturing waste water injection wells in the vicinity pales by comparison.

Mr. Antonides tells us that there has also been research correlating periods of drought to an increase in seismicity on five continents around the world. It is his interpretation that many of these events can be linked to groundwater changes in major aquifers over relative short periods of time.

We'd like to thank Jean Antonides for his incredibly interesting and informative presentation that gave us credible information to debate the popular opinion that drilling causes earthquakes.



Strike a Pose 👮

























2016 Region VI Meeting

"GREATER KNOWLEDGE - GREATER SERVICE"





"It was SO good to see those who I've met before at Region or Convention, and to be able to regain "ground" and bond together even more. Truthfully, these are some of the most loyal, caring and helping individuals one would ever be blessed enough to know. The experiences we shared on the Moonshine Run on Friday evening was much fun; even if we were being chased by the po-po. But the ride was in style...Hummer limousines....NICE! Plus the band was great, as we Tulsan's "cut a rug" and enjoyed our time The speaker presented updated information together. concerning the wind turbine industry/energy, which further educated our Clubs about this energy. Of course, as we traveled to Great Bend, KS, we saw them up close along the highway. Impressive to me!" ~ Karen Gibbs









"Great Bend isn't a big club but they can still pull off a fun-filled region meeting. First class rides in the limos, down a dirt road to a barn no less. When the weather turned cool they brought in heaters to keep us warm. The business meeting went off very smoothly. Our keynote speaker on Saturday was very candid about how the wind turbines can generate but can really be a challenge to turn that into usable, sustainable energy for the power grid. Vicki and I visited the history museum on the edge of town, it turned out to be a great museum with many historic structures and a bonus art show from several area schools. It was unusual for Kansas to have all the wet weather, needless to say I was ready to get back to sunshine and I didn't

miss the stockyard smell either." ~ Jill Klein

"It was a wonderful cultural exchange for a city girl. The convention provided insight on the common goals of each club in Region VI while offering unique opportunities to engage in dialogue for new ideas. I enjoyed the interpersonal conversations which bonds individuals and it is an inspiring way to hear the ADDC president up close." ~ Mary L. Williams





The Tulsa Oil Drop **JUNE 2016**





"We had a rip-roarin' good time at the Friday Hillbilly Haven social. We had "moonshine", great food and entertainment. We got to try our hand at various games such as the toilet seat toss, or the moonshine run, where most of us got caught by the local sheriff, Wendy. Connie Harrison, our ADDC President, worked so hard trying to get her rubber ducky across the finish line in the duck races. Three of our club members, who will remain anonymous, were caught with a still and a jug of moonshine." ~ Gay Wheeler





















"I always enjoy the Region Meetings; often much more than I expect. 2016 in Great Bend, KS was no exception to that. I wasn't even sure that I'd be able to attend until the day before we left town. I roomed with someone that I enjoy being with but hadn't gotten to know too personally previous to this occasion. I think it's fair to say that we'd both do it again.

The one thing that sticks out in my mind the most was our transportation for the Friday night event. We were having a hoe-down at the home of some of our hosts. Rather, I should say; at the BARN of some of our hosts! As usual for our Region VI Meetings, attendees dressed the part. So imagine us dressed as hillbillys (or is it hillbillies?), going to a barn to have a rip-roaring good time. Two limousines pull up to the hotel to gather us up. Inside one car was a full length bar and a light up ceiling. Inside the other car was a smaller bar but also a fireplace! As we pile into the limos, our hosts hand us the proper hat for the evening: a handmade denim hat 8 of scraps and pieces of material. It was too funny!" ~ Susan Cook









"At region meeting I enjoyed the field trips and speakers. On Thursday, I went on the McDonald Tank and Haz-mat field trip. At McDonald Tank we saw how steel and fiberglass tanks used for gas, oil and water separation are made. At Haz-mat they gave a demonstration on how a hazardous leak is handled." ~ Beth Johnson





"My favorite Field Trip experience was the HazMat tour. These are some of the most dedicated people I have met. They

are ready and available to approach any hazard with professionalism, creativity and courage. I was amazed at the number of train derailments that they process. The dedication to be away from their families at any moment and once they are called to a hazard they stay sometimes months until it is cleaned up - it was so interesting. I learned so much from our industry speaker about the electric coop challenges. Sourcing from coal, hydro, wind and solar to meet the needs of the coop as well as keeping cost down is an intriguing problem. I worked for an electric company as well as my father and sisters so this was especially interesting for me. The future of portable units to power our homes is a new technology I have been looking at and was glad to hear they are keeping that as a future option as well. It was great to see everyone and spend time with all of the Desk and Derrick friends – lots of fun, lots of fellowship – lots of learning. Of course you cannot beat traveling around town in a limo. Great job Great Bend!" ~ Beth Hesling







Tulsa Club Members



Mayfest Fossil Dig

"I want to thank everyone who help during Mayfest. Dr. Hyne was very pleased that the event went so well. As you saw, the sand box, Fossil Dig, was filled with children most all weekend. This is a great way to serve the community and promote our industry. Kris even brought a neighbor who is a college student at TCC and does volunteer work for her school requirements. Hope everyone had fun. Thank you so much for volunteering." ~ Vicki Barnes



"Thank you Vicki, for your hard work and efforts to ensure D&D coverage for this BIG community event. Thanks to our Club's Service, and working with our future generation explore adventures in the sand, Desk and Derrick continues to be present in the future. You all are a great group of volunteers!" ~ Karen Gibbs



"As a first timer to this event, I enjoyed it but wished I'd brought some knee pads, lol!" ~ Gay Wheeler



"It was a lot of fun! Very organized!" ~ Betty Hodge

"It was fun same as in past years!!
Dr. Hyne is a 'gem' himself."

~ Dee Jansen







"Yes, it was great this year and Vicki, you did a fabulous job of recruiting volunteers. I wish I could have spent more time there this year, but am glad for the 2 hrs I had. Each year, Dr Hyne and Broc make it a little more of a draw for the kids and parents and I am so happy to be a part of introducing these young minds to the fossils. The "gold" was a big bonus, but I think the shark teeth still rule!" ~ Kay Wms





SPOTLIGHT



A BIG THANK YOU to all our Mayfest Fossil Dig Volunteers

This year 13 members logged over 30 hrs volunteering to spend time with local kids of all ages as they played in the sand and searched for fossils, "gold" and gems.

Karen Gibbs Jill Klein Laura Louser Beth Hesling Kris Russell Dorothy Lenhart Betty Hodge Gay Wheeler Kay Williams Vicki Barnes Val Bode Beth Johnson Dee Jansen



Volunteers needed!



SPECIAL EVENTS
Pipeline and Energy Expo



BOARD MEETING	MEMBERSHIP MEETING	MEAL/FUNCTION		
May 31st *	June 8th	Lunch		
June 27th **	July 13th	Lunch		
August 1st	August 10th	Dinner/Summer Social		
August 29th	September 14th	Lunch		
Octobr 3rd	October 12th	Lunch/Orientation/Elections (CLOSED MEETING)		
November 1st ***	November 9th	Lunch/Industry Appreciation		
December 5th	Decembr 14th	Dinner/Winter Social/Installation		
* Monday, May 30th is Memorial Day ** Monday, July 4th is Independence *** Monday, October 31st is Hallowe	Day			
SPECIAL MEETINGS				
65th Annual ADDC Conventi	,	Registration Packet now available		
2017 Region VI Meeting:	Host: Region VII at Crowne Plaza Hotel April 27-30, 2017 in Tulsa, OK	Volunteers needed!		

September 19-21, 2016



A Social Event for you, your family and friends.

Join us for dinner and/or a round of Putt Putt Golf.

June 11, 2016

Dinner (Dutch Treat)

at 5:00 PM

Neives' Mexican Grill

Golf around 6:15PM

\$7/adult; \$5/child under 14

All Star Sports Complex

10309 E. 61st St., Tulsa

RSVP by June 8

918-584-5225

Brenda or Susan

susan@elsonoil.com





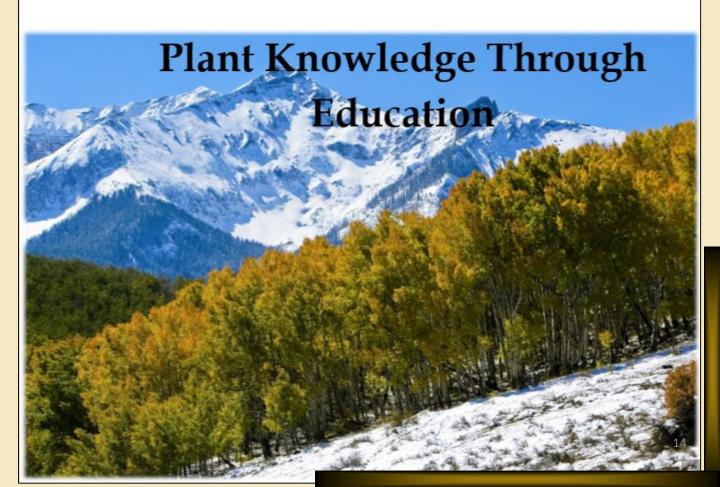


Association of DESKand DERRICK Clubs

65th Annual Convention and **Educational Conference**

September 21 - 24, 2016

Denver, Colorado



IMPORTANT INFO!





Our company has a job opening as an *accounting assistant*. Do you know if any of your members are currently looking for employment? Thank you for your help.

Janet Comfort

janet.comfort@crestresources.com

Thanks for taking my call today. If anyone comes to mind for the position we discussed please feel free to pass my information along. As we discussed the *Sr. Reserves Analyst* position is with a mid-sized, privately held E&P company in Tulsa. They are looking for an Aries user with excellent analytical skills. This position is going to report directly to the Reserves Manager and the company offers large compensation packages & significant long term incentives. Any assistance is appreciated.

Amber Davenport

Recruiter

Walker- Elliott

713-482-3750 (Office)

713-589-7983 (Fax)

11200 Westheimer Suite 365

Houston, TX 77042

adavenport@walker-elliott.com

www.walker-elliott.com

Leaders' Letters



Board of Directors

PRESIDENT Connie Harrison Valero Energy Corp.

PRESIDENT ELECT

Maggi Franks

K&E Computer Services

VICE PRESIDENT Christina Forth AGG International

SECRETARY Penny Jacobs Range Resources-Appelachia LLC

TREASURER
Terry Ligon
L Chem Tech Co., Inc.

DAMEDIATE PAST PRESIDENT Lori Landry White Knight Resources

EXECUTIVE ASSISTANT Melinda Montgomery Memorial Resource Dev. Corp.

PARLIAMENTARIAN Sheryl Minear, RP Sojourner Drilling Corp.

REGION I DIRECTOR Cheryl Charie Range Resources - Appalachta

REGION II DIRECTOR

Kathy Bickel

Mosbacher Energy Company

REGION III DIRECTOR

Theresa Adams

D&B Martne Services, LLC

REGION IV DIRECTOR Mary T. Vaughan EXCO Resources Inc.

REGION V DIRECTOR

Monica Sanchez

California Resources Corporation

REGION VI DIRECTOR

Tammy Watkins

CTKW Petroleum Land Service, LLC.

REGION VII DIRECTOR

Cori Peever

Command Fishing & Pipe Recovery Ltd.

Connie J. Harrison President

Valero Energy Corporation Aviation Department 1000 Skyplace Blvd San Antonio, Texas 78216

> (210) 345-5460 O (210) 563-6656 M

connie.harrison@valero.com (o)

June 2016

WHEN YOU LEARN, TEACH, WHEN YOU GET, GIVE ... Maya Angelo

Well here we are at the half way mark for the year, it does not seem possible that 6 months have gone by but time does fly. I have been busy traveling and attending regional meetings which were wonderful and quite educational. I attended 4 regional meetings, Region IV, V, VI, and VII. What incredible field trips and seminars I attended. And met some wonderful people along the way and got to see some dear friends too. Thank you all for your hospitality. I am saddened that I could not attend all the region meetings but seems there are not enough hours in the day or week to do this effectively. But I was there in spirit and I know some of the other board members attended.

Congratulations to the new RD Elects for all the regions. You will begin to receive emails from the present board. These are for your information only and to get you acquainted with the workings of your association board.

I hope everyone has seen the 2016 Convention Packet which is out on the website. Please make your plans to attend this Convention and Educational Conference. You will have many field trips and seminars to choose from. I urge everyone to attend and get educated and help move this association forward.

To date we have 1552 members across the association. This is 242 short of our goal of 1800 for the year so I have a challenge for each member....If each club would recruit 5 new members we will more than meet our budget for 2016. And remember that we have the Potential Member Reimbursement Program for clubs to take advantage of. Please utilize this program to gain new members. You might be surprised who will agree to come to a meeting, all you have to do is ask.

As you may or may not know we have taken the DDJ to a complete digital format which saves the association approximately \$25,000.00 a year. You can still get hard copies for use as a recruiting tool and for expos and meetings. Contact Andre for these orders.

Have a wonderful and educational June and keep recruiting, renewing and rejuvenating our membership and PLAN TO MATTER everyday!!!!!!

Connie Harrison 2016 ADDC President





Board of Directors

PRESIDENT Connie Harrison Valero Energy Corp.

PRESIDENT ELECT Maggi Franks K & E Computer Services

VICE PRESIDENT Christina Forth AOG International

SECRETARY
Penny Jacobs
Range Resources-Appalachia LLC

TREASURER
Terry Ligon
L Chem Tech Co., Inc.

DAMEDIATE PAST PRESIDENT Lori Landry White Knight Resources

EXECUTIVE ASSISTANT
Melinda Montgomery
Memorial Resource Dev. Corp.

PARLIAMENTARIAN Sheryl Minear, RP Silver Oil & Gas, Inc.

REGION I DIRECTOR Cheryl Charie Range Resources - Appelachta

REGION II DIRECTOR

Kathy Bickel

Mosbacher Energy Company

REGION III DIRECTOR Theresa Adams D&B Martne Services, LLC

REGION IV DIRECTOR Mary T. Vaughan EXCO Resources Inc.

REGION V DIRECTOR

Monica Sanchez

California Resources Corporation

REGION VI DIRECTOR
Tammy Watkins
CTKW Petroleum Land Service, LLC

REGION VII DIRECTOR

Cori Peever

Command Fishing & Pipe Recovery Ltd.

André Martin

Association Distribution Office Manager (ADO)

Association of Desk and Derrick Clubs 5321 S. Sheridan, Ste. 24 Tulsa. OK 74145

> (918) 622-1749 O (918) 622-1675 F

Email: ado@addc.org Website: www.addc.org

June 2016

"It can all be fixed . . . " - Sheryl Minear

11 years ago, when I was learning what "Desk and Derrick" was even about, I was very fortunate to have several mentors.

While I was thinking about this month's letter I began to reminisce a bit. I remembered that I had to learn what I had signed up for. I had to learn what was done in the past to keep the office running effectively. I had to learn new software... and all of this was a bit daunting. However, in learning the WolfePak Software, Sheryl Minear said this phrase and finally I was able to take a breath and not freak out! (Unfortunately she has had to say that many more times throughout the years to help me correct entry errors.) But please know that they have been fixed.

I lead off this letter with this story for the simple reason that I understand that learning and navigating the new website can feel daunting for some. Some have had challenges setting up their login credentials, forgot their username/password, etc. I would say to you what was said to me: It can all be fixed!!!

So with that said point and click away and explore the sight freely. If you run into trouble contact myself or our Webmaster, Wayne.

While you are there, please make sure that your contact information is correct. Click the link that says "Members – update Your Information" and this will allow you to make changes and updates.

So, breathe, relax and have fun. Know that, It can all be fixed!!!



Fun Facts





How well do you know the petroleum industry?

- 1. Where does crude oil come from?
- 2. What is the term commonly used to refer to the act of deviating a well bore to head in the direction desired?
- 3. What is the first step that crude oil undergoes in a refinery?
- 4. What is the name commonly given to the liquid used in drilling a well?
- 5. What is the name commonly given to the Oil Company representative who is present while drilling is taking place?
- 6. What type of formations are oil and gas usually found in?
- 7. What is the name given to the tall, main structure of a drilling rig?

drill pipe in the drilling process.

The derrick is the part of the drilling rig that houses the block and drill line used for lowering and raising the

7. The derrick

Sand is often permeable and oil and gas will naturally migrate to such a formation.

6. Sand

employees working for a consulting firm.

Company Men are not always men. It is rare, however, for a woman to hold this position. Most Company Men these days don't actually work directly for the company who owns the well. They are usually contract

5. The Company Man

very important to the safe and productive drilling of a well.

Many additives are mixed with water, diesel or synthetic oil to make up mud. The properties of the mud are

buM .4

saltwater fall out of the oil.

Raw crude oil contains water and salt that would interfere with the refining equipment. Initially, the oil is heated to lower the viscosity of all the fluids involved, and then run through an electronic grid that makes

3. It is heated, and the water and salts are removed.

to drill a well horizontally (90 deg.), to distances of 2 miles or more!

Directional drilling has advanced the ability to get otherwise unreachable oil. It is now common practice

2. Directional drilling

Texas', you're probably a Texan.

Crude oil reserves lie hundreds or thousands of feet below the surface of the earth. Oil companies drill down into prospective reservoirs to find the oil and pump it to the surface. Of course, many of the wells drilled are 'dry holes', meaning that no commercial quantities of oil are found there. If you answered

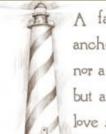
1. It is pumped from wells drilled into the ground.







JUNE 2016							
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
29	All gave some Some gave all Remember them this	31 BOARD MEETING	1	BIRTH AY Gay Wheeler	3	4	
5	6	7	8 MEMBERSHIP MEETING Joyce Kunkel	9 Birthia Julia McCormick	10	11 SOCIAL EVENT See pg 13	
12	13	14 Flag Day	15	16	17	18	
19 Happy Only Day	20 Past Day	21	22	23 Reverboff	24 DEADLINE for TOD submissions	25	
26	27	28 Mary Penterman	29 Barbara Brazeal	30			



A father is neither an anchor to hold us back, nor a sail to take us there, but a guiding light whose love shows us the way.

In Closing...

Editor's Comments

by Kay Williams



As we approach the midway mark of this year (actually July 1st due to leap year), it is easy to look back on the challenges we have experienced - in our lives, in our industry, and in this organization - with negativity and sadness. However, I choose to look at the positive.

We have added 9 new members during one of the worst downturns in history, we have experienced 5 fantastic speakers, we have enjoyed delicious food and good conversations together, and we have had great volunteer participation in helping out a very worthy cause. Our Committee Chairs continue to work hard to meet their goals and our Board has been diligent in striving to find ways to build on the future of our Club.

In order to assure that future, we <u>MUST</u> heed our President's slogan:

STAY THE COURSE, GET CONNECTED, BE COMMITTED

The ultimate measure of a man is not where he stands in moments of comfort and convenience, but where he stands at times of challenge and controversy.

Martin Luther King, Jr.

When we meet real tragedy in life, we can react in two ways - either by losing hope and falling into self-destructive habits, or by using the challenge to find our inner strength. Thanks to the teachings of Buddha, I have been able to take this second way.

Dalai Lama

P.S. Check out these interesting and informative websites.

www.tulsadandd.net

www.addc.org

Note: All submissions to The Tulsa Oil Drop can and shall be edited as necessary. Viewpoints expressed by submitters are those of the writer and not necessarily of The Desk and Derrick Club of Tulsa or the Association of Desk and Derrick Clubs (ADDC). Email: kwms53@yahoo.com with questions.