

THE LONE STAR PIPELINE



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Our Purpose

The Association of Desk and Derrick Clubs (ADDC) is a non-profit, international organization whose purpose is to promote the education and professional development of individuals employed in or affiliated with the petroleum, energy, and allied industries and to educate the general public about these industries.

Our Mission

Our mission is to enhance and foster a positive image to the global community by promoting the contribution of the petroleum, energy, and allied industries through education by using all resources available.



Texas Oil Fields Rebound From Price Lull, but Jobs Are Left Behind

The industry is embracing technology, and finding new ways to pare the labor force. But as jobs go away, what of presidential promises to bring them back?

CLIFFORD KRAUSS

FEB. 19, 2017

New York Times

MIDLAND, Tex. — In the land where oil jobs were once a guaranteed road to security for blue-collar workers, Eustasio Velazquez’s career has been upended by technology.

For 10 years, he laid cables for service companies doing seismic testing in the search for the next big gusher. Then, powerful computer hardware and software replaced cables with wireless data collection, and he lost his job. He found new work connecting pipes on rigs, but lost that job, too, when plunging oil prices in 2015 forced the driller he worked for to replace rig hands with cheaper, more reliable automated tools.

“I don’t see a future,” Mr. Velazquez, 44, said on a recent afternoon as he stooped over his shopping cart at a local grocery store. “Pretty soon every rig will have one worker and a robot.”

Oil and gas workers have traditionally had some of the highest-paying blue-collar jobs — just the type that President Trump has vowed to preserve and bring back. But the West Texas oil fields, where activity is gearing back up as prices rebound, illustrate how difficult it will be to meet that goal. As in other industries, automation is creating a new demand for high-tech workers — sometimes hundreds of miles away in a control center — but their numbers don’t offset the ranks of field hands no longer required to sling chains and lift iron.

So while there is a general sense of relief in the oil patch that a recovery is gaining momentum, discussions at company meetings and family kitchen tables are rife with aching worries, especially among those who are middle-aged with no more than a high school education

Roughly 163,000 oil jobs were lost nationally from the 2014 peak, or about 30 percent of the total, while oil prices plummeted, at one point by as much as 70 percent. The job losses just in Texas, the most productive oil-producing state, totaled 98,000.

Several thousand workers have come back to work in recent months as the price of oil has begun to rise again, but energy experts say that between a third and a half of the workers who lost their jobs are not returning. Many have migrated to construction or even jobs in renewable energy, like wind power.

“People have left the industry, and they are not coming back,” said Michael Dynan, vice president for portfolio and strategic development at Schramm, a Pennsylvania manufacturer of drilling rigs. “If it’s a repetitive task, it can be automated, and I don’t need someone to do that. I can get a computer to do that.”

Indeed, computers now direct drill bits that were once directed manually. The wireless technology taking hold across the oil patch allows a handful of geoscientists and engineers to monitor the drilling and completion of multiple wells at a time — onshore or miles out to sea — and supervise immediate fixes when something goes wrong, all without leaving their desks. It is a world where rigs walk on their own legs and sensors on wells alert headquarters to a leak or loss of pressure, reducing the need for a technician to check.



And despite all the lost workers, United States oil production is galloping upward, to nine million barrels a day from 8.6 million in September. Nationwide, with a bit more than one-third as many rigs operating as in 2014, production is not even down 10 percent from record levels.

Some of the best wells here in the Permian Basin that three years ago required an oil price of over \$60 a barrel for an operator to break even now need about \$35, well below the current price of about \$53.

Much of the technology has been developed by the aviation and automotive industries, along with deepwater oil exploration, over more than a decade. But companies drilling on land were slow to adapt until oil prices crashed and companies needed to get efficient quickly or go out of business.

All the big companies, and many smaller ones, have organized teams of technicians that collect well and tank data to develop complex algorithms enabling them to duplicate the design for the most productive wells over and over, and to repair valves and other parts before they break down.

The result is improved production and safety, but also a far smaller work force, and one that is increasingly morphing from muscle to brain power.

Pioneer Natural Resources, one of the most productive West Texas producers, has slashed the number of days to drill and complete wells so drastically that it has been able to cut costs by 25 percent in wells completed since early 2015. The typical rig that drilled eight to 12 wells a year just a few years ago now drills up to 16. Last year, the company added nearly 240 wells to its Permian Basin inventory without adding new employees.

The faster operations, Pioneer executives say, are due in large part to more effective well planning and drill steering. Both have been made possible by the real-time computer connections between the rig and top geoscientists back at corporate headquarters and intense analysis of the data gathered at every well.

The laborious task of checking tank levels by climbing a flight of steps and popping open a series of latches, for instance, has been replaced by pressing a few icons on a computer touch screen. A fully automated water pump station installed last summer is intended to save hundreds of truck trips every day hauling water for hydraulically fracturing wells, yielding diesel and labor cost savings.

“We want to transform our work force to the point where we need to hire fewer people,” said Joey Hall, Pioneer’s executive vice president for Permian operations. Improved computing streamlines operations, he noted, and lets technicians optimally space their wells and more accurately perforate the sweet spots of shale veins to squeeze every drop of oil out of the ground.

“We’re heading toward artificial intelligence and machine learning, analyzing thousands of algorithms,” Mr. Hall added, sounding more like a Silicon Valley futurologist than a wildcatter. “Through repetitive operations, you learn the patterns, and through patterns you learn to make automated decisions.”

With the loss of manual jobs has come a transformation in the job force, with demand growing for more data analysts, math scientists, communications specialists and robotic design engineers. In the last two years, ABB, the Swiss technology company, has opened two plants in Houston for assembling and packaging robotics and integrating advanced instrumentation into oil field operations.

GE Oil and Gas opened a technology center in Oklahoma City in October to place scientists closer to the oil fields to research and apply new digital industrial technologies for exploration and production. Among its many projects is an experiment to use drones to inspect equipment and identify methane leaks on oil sites. Nabors, the oil services giant, has 100 employees developing software, 10 times the number it had only a few years ago.

“With the adoption of all this gee-whiz software and stuff, we’ve had to bring in a lot of new technicians,” said Dennis A. Smith, a Nabors vice president.

A typical new oil company employee is Andre Nel, a 25-year-old mechanical engineer who is a rising star at Pioneer Natural Resources. In less than two years, he has helped rewrite computer software to instruct workers on the best designs for hydraulic fracturing, optimizing the amounts of fluids, sand and chemicals pumped into the wells.

Now, connected by computers to technicians in the field, he is monitoring the production of 950 wells, instantly checking the maintenance history and production trends of every well with the click of a mouse.

“I’m lucky and happy that the tech revolution in the oil field has created the need for engineers like me with backgrounds in computer science,” he said.

But smaller companies and their workers are struggling to keep up.

S.O.C. Industries, a small local pump truck operator and chemical services provider, is forced to invest \$100,000 a year to keep up with the computer programs and monitoring equipment its clients request. The added expenses are one reason the company has let go 15 of the 60 field workers employed three years ago. Another is that well operators that once hired five or six people on a drill site to mix chemicals and drilling fluids as well as clean up spills are now hiring only three as mechanization has sliced their drilling time in half.

Some of the remaining S.O.C. employees are straining to keep up with new computerized pump truck monitors and GPS systems.

“It’s a struggle,” said Rodrigo Urias, 59, an S.O.C. truck driver, who for many years only had to look at a needle on a gauge to monitor flow pressures. Now he needs to reset computer screens, take work orders on a computer tablet and sometimes do algebraic calculations.

“A lot of the guys can’t operate these new technologies, tablets and instruments, and they keep whining,” he added. “They want to know why we can’t do things like we used to.”

Manufacturing executives say they are trying to minimize the complexity for field workers, and sometimes design their equipment with the advice of video game makers.

That’s a good thing for Michael Manga, 34, an employee of Latshaw Drilling, an Oklahoma company active here. A college dropout, he knocked around from job to job before finding his way to the oil patch. Now, playing video games like Call of Duty and Mario Kart with his friends over the years has paid off, giving him the eye-hand coordination to monitor and operate the control panels and joy sticks that control the drilling rig.

“We do such a good job now,” he said, “we’re drilling ourselves out of a job.”

MEETING INFORMATION

- Our meetings are generally held the second Thursday of each month at 6:00PM at the Brookhaven Country Club. (3333 Golfing Green Dr | Farmers Branch, TX 75234
- The cost of dinner is \$30, cash or checks made payable to Lone Star Desk and Derrick Club of Dallas | RSVPs must be made by the second Tuesday at 10:00AM unless otherwise stated.
- Prior to the meeting, there will be a Social Hour from 5:00-6:00PM with a cash bar.



Dates and News

MONTHLY MEMBERSHIP MEETINGS

March Meeting

Thursday,
March 16th

March Board Meeting

Monday
March 7th



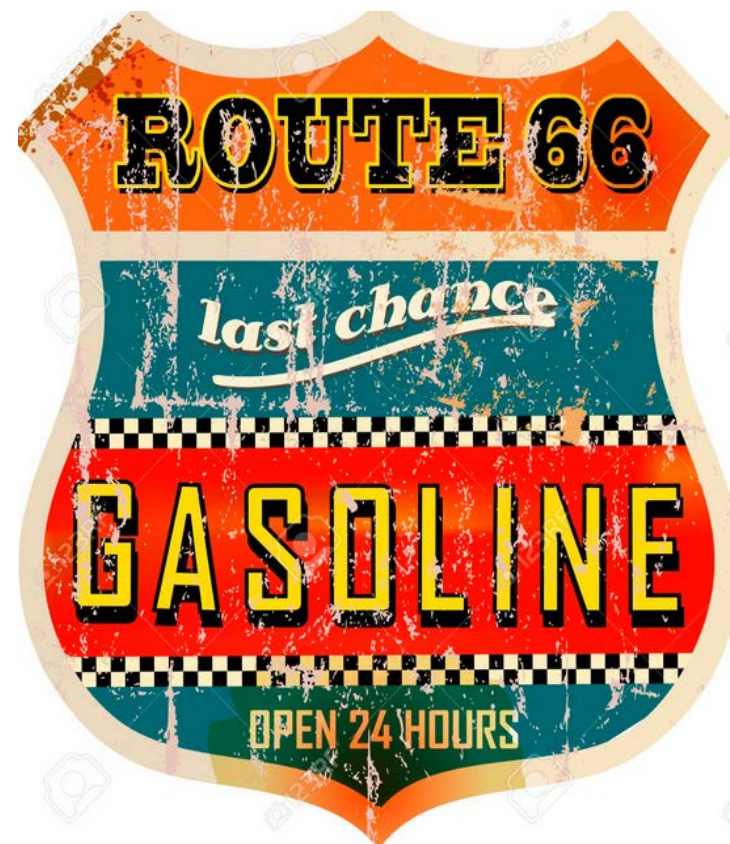
- ❖ March 31 – Amanda Manson
- ❖ March 31 – Ashley Justinic



Throwback Photo of the Month



A group of people standing in front of the base of a wooden oil derrick, with a car parked on the far right. Lorene Jones stands in the middle of the group, and a tall man with a hat, Dr. P. E. Jones, the owner of the farm, stands next to her – Courtesy Cherokee County Historical Society



March Meeting



Peter Blomquist works for IHS Markit in the Dallas office as a Geologist and Technical Advisor in Petra and Kingdom Geology. He holds a Bachelor's Degree in Geology from the University of Minnesota and a Master's Degree in Geology from Colorado School of the Mines. He has over 20 years' experience as a geologist, mostly in the oil industry, plus time in minerals and hydro-geology. He has worked for several oil companies, as a consulting geologist, and as an operator. The key lesson learned while in Operations, the pumper never calls with good news! He is also a Registered Professional Geologist with the State of Texas.

February Meeting Photos



The Wolfcamp Horizontal Play of Midland Basin, West Texas

Mr. Peter Blomquist works for IHS Markit in the Dallas office as a Geologist and Technical Advisor in Petra and Kingdom Geology. Mr. Blomquist was our March speaker and presented a very interesting and informative program on the Wolfcamp. He stated that the Santa Rita was drilled in 1923 and was the first good producing well in the Permian Basin, it produced 67 years and is currently in Austin, Texas where you can see it on the University of Texas Campus.

A total of 116,383 wells have been drilled for oil and gas in the Midland Basin of West Texas, including 101,647 oil and gas producers. Productive portions of the Basin are in the south and center of the Basin: the northern portion has had less production.

The Wolfcamp Formation (Wolfcampian-Leonardian) exists across the entire Midland Basin and was first drilled as a vertical oil play in the 1950's. Various operators experimented with horizontal wells in the Wolfcamp during 1990-2001, and the results of these early efforts were inconsistent. No additional wells were drilled until 2007-2010 when six more were drilled. Activity accelerated in 2011 when 57 wells were drilled in this resource play, and with the success of those wells, interest in the play increased dramatically.

Stratigraphically the Wolfcamp Formation is complex, consisting of mostly shale and argillaceous carbonates, with sand and sandy intervals near the basin edges, and facies that exhibit abrupt lateral changes. The Wolfcamp has stacked potential, with six possible target zones, or benches, in which to direct horizontal wellbores, designated top-down as the A, B, C (upper and lower), and D (upper and lower) zones. The most drilled targets to date are the A and B zones in the section. Depths to the Wolfcamp in the Midland Basin vary from 4,000 feet in the east along the Eastern shelf to 10,000 feet along the basin axis near the western basin edge. Structure does not appear to be an influence in this play.

The total number of horizontal wells in the Midland Basin is 5,123 with 3,318 completed in the Wolfcamp interval. Wolfcamp horizontal wells can exhibit substantial initial production (IP). To date, 28 wells have had IP's greater than 2,000 BOPD, with an average IP of all Wolfcamp horizontal wells of 680 BOPD. Although this play is still in the juvenile stage, cumulative production to date is 180 million BO. Porosity of the Wolfcamp Formation varies between 4% and 12% and averages 7%. Permeability is as low as 10mD, necessitating multistage fracs. The Wolfcamp Shale has excellent shale rock properties; it fractures well and has a good range of total organic carbon, between 2% and 7%. Recent drilling has increased lateral lengths to 13,000 feet, with Pioneer Natural Resources leading this effort. Average lateral length for the Wolfcamp horizontal wells is 7,000 feet, and 122 wells have length greater than 10,000 feet. Estimated ultimate recovery is greater than 500,000 BOE per horizontal well from multiple zones, which increases with increasing lateral length. Based upon areal extent, thick and abundant source rocks, and multiple producing horizons, the Wolfcamp Play is one of the largest resource plays in the world, particularly when combined with the overlying Spraberry Formation. Total recoverable reserves may exceed 35 billion BOE for the Wolfcamp horizontal play.

Mr. Blomquist also added that the top three operators of this play are Pioneer Natural Resources, Laredo Petroleum, Inc., and Apache Corporation. Currently, this is one of the hottest areas in Texas, USA and the world.



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March 2017

Dear friends and fellow members,

Happy Desk and Derrick Awareness month!! Each year, as members, we try to make our communities, coworkers, and employers aware of just how important our Association is in educating the world about energy. We need to broaden our reach. Last year we started allowing anyone with an interest in the energy industries to join ADDC. We need to follow that up by introducing ourselves to those people. Reach out to your local papers, radio stations, news agencies, or colleges; anywhere you might think there might be interested parties. One of the things the Public Relation / Trade Show Committee has been tasked with this year is to find a PR Firm for the Association. Until then, it is up to us to be our own promoters. I challenge each of you to spread the word about ADDC to 3 people this month: 1 person at your office, 1 person in your community and 1 random person that you think might be interested. Even with our low numbers, if we each reach out to 3 people – we will have told over 5,000 people about Desk and Derrick. If we can get even 6% of those people to join or even spark their interest, our numbers could be over 2,000 again in no time.

We need to focus on more than recruiting new members; we need to retain our current members. ADDC was affected by the downturn in our industries, and we lost many members. As the industry experiences the upswing, we will reach out to our former members and bring them back. We will provide more educational opportunities for our members. We will show our employers the advantages of having a member of ADDC as an employee. By doing all of these things, we can strengthen our Association from within.

The minutes from Budget & Planning are now available on the ADDC Website, as is the 2017 ADDC Budget. You will notice that for the second year in a row we are presenting an unbalanced budget. As our numbers dwindle, we are losing our primary source of revenue. You will see in the report of the Rules committee that the Board is proposing six bylaw amendments. For the most part they are a result of the unbalanced budget. We will be asking for a dues increase. To many of us this will seem to be a large increase, and it is larger than anything we have requested from membership in the past. There is a reason behind our request. Even when this passes, we will still be operating at a deficit, and keep in mind it will not go into effect until 2018. The additional revenue will help us keep afloat for a few additional years, but it is not the complete resolution of our financial difficulties. The board is seriously looking into other sources of revenue. We started by investing some of our funds in 2015, again this is not a quick fix. An Ad-Hoc committee, formed at B&P, is looking into creating advertising packages that can become a serious revenue stream.

What's the point behind all of this? We believe in ADDC. We want to continue the legacy left to us by Inez Awty Schaffer. If we all work together we can ensure that ADDC will thrive for another 68 years.

Until next month,

Maggi Franks

Region IV Director's Newsletter



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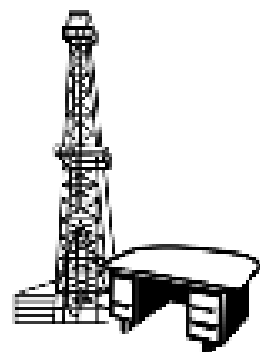
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March 2017

It was a wonderful day Saturday, February 11th here in San Antonio when the 2017 Region IV Presidents, Vice Presidents, Region IV Committee Representatives and ADDC Chairman met for a one day meeting. All ten (10) Region IV Clubs were represented by their President, with many of the Vice Presidents attending as well. A time of setting goals and sharing ideas of how to help our clubs in Region IV move forward and grow. The energy, enthusiasm and fellowship, was second to none. The sharing of great ideas and goals for our Region for this year makes one understand that we are not alone! Thank you all for coming, you are wonderful. I will ask that each of you that attended the meeting, please share with your members. Remember that you members are a great wealth of knowledge – rejuvenate them!

The second of the 3-R's: *Retain – to hold secure or intact.* We as a Club, Region and the Association strive to hold on to our members, keep our membership intact. We have each renewed our membership for this year because of the education value that we get through Monthly Meetings, Field Trips, Seminars, Regional Meetings and the Annual ADDC Convention. If you know of a member that decided not to renew, why not contact them personally and ask them why? Find out how you or your club can get them to reconsider and renew. Maybe the answer is to rejuvenate them, so that we can retain them!

NAPE (North American Prospect Expo) was held in Houston, February 16-17, 2017. Thank you to the members of the North Harris/Montgomery Counties Club and the Houston Club for representing ADDC – setting up the booth and being ever so present to answer questions about our Association.

March is *DESK AND DERRICK AWARENESS MONTH.* What better time to invite potential members to your meeting. Let them know what we, as an Association, are all about.

Plans for the Region IV Meeting in Corpus Christi are being finalized and the Registration Form will be out shortly. The Corpus Christi Club has worked very diligently to make this a Regional Meeting you won't want to miss. Great Field Trips, wonderful seminars and speakers! *Mark your calendars – May 3-6, 2017* at the Holiday Inn Downtown Marina.

Endeavour

"All you need is the plan, the road map, and the courage to press on to your destination." —*Earl Nightingale*

Oil & Gas Pricing

Energy Futures

Symbol	Price	Change	%Change	Volume
* OIL	48.36	▲ 0.63	1.32%	482786
* BRENT	51.32	▲ 0.57	1.12%	176031
* NAT GAS	3.088	▲ 0.036	1.18%	46455

Oil & Gas Glossary

- SALT WATER DISPOSAL WELL – oftentimes, the salt water produced during oil production is pumped back into a formation that is deep enough not to pollute shallow water sands. Many wells that are no longer commercial are converted to salt water disposal wells.
- SECONDARY RECOVERY – a broad term encompassing any method of extracting oil from a reservoir after a well or field has exhausted its primary production.
- SEPARATION – the process of separating liquid and gas hydrocarbons from water. This is typically accomplished in a pressure vessel at the surface, but newer technologies allow separation to occur in the wellbore under certain conditions.
- SKID – a simple steel frame on which separate pieces of equipment are mounted into a single modular system to facilitate easy movement, hauling and/or storage.
- SPUD DATE – Date drilling begins on a well
- STANDING VALVE – in a subsurface sucker-rod pump, a valve that permits flow up the tubing to fill the pump-barrel chamber while preventing downward flow.
- STUFFING BOX – prevents oil from escaping from a well, while also diverting it into a side outlet that is connected to the flow line leading to the oil and gas separator or to the field storage tank.
- SUCKER ROD – a steel rod that is used to make up the mechanical assembly between the surface and downhole components of a rod pumping system. Sucker rods are 25 to 30 feet long and threaded at each end to enable the downhole components to be run and retrieved easily.
- SURFACE PIPE – pipe which is set with cement through the shallow water sands to avoid polluting the water and keep the sand from caving in while drilling a well.
- SWAB TEST – swabbing can be defined as pulling a full-diameter tool from the wellbore; this pulling action is similar to that of a plunger in a syringe, and it initiates fluid flow into the wellbore. On occasion, oil or gas wells may not flow fluid to the surface on completion. When this occurs, a swabbing unit is run to remove the hydrostatic column of fluid in the wellbore and allow the well to kick off and flow.
- SWABBING – the process to remove liquids from the production zone of a gas or oil well.

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ONLINE RESOURCES

Club Website:

www.lonestardandd.org

Facebook: [Click Here](#)

Public Calendar: [Click Here](#)

ADDC Website: www.addc.org

Club Email:

info@lonestardandd.org

Texas Energy Council Website:

www.texasenergycouncil.org



SAVE THE DATE



FRIDAY, SEPTEMBER 8, 2017 | 11:00 AM - 4:30 PM
DALLAS GUN CLUB | 3601 STEMMONS FREEWAY | LEWISVILLE, TX 75067

ABOUT THE EVENT

- ❖ Open to **ALL**
- ❖ First-come, first-serve basis
- ❖ Breakfast and Lunch sponsorship opportunities available
- ❖ \$750 per four-man team (includes cart and event shirt) or \$200 per individual (team TBD)
- ❖ Shooters provide ammo, eye and ear protection

SCHEDULE OF EVENTS

- ❖ *Registration:* 11:00 am – 12:00 pm
 - ❖ *Lunch:* 11:30 am - 12:30 pm
 - ❖ *Shoot:* 12:30 - 3:00 pm
 - ❖ *Ceremony:* 3:00 - 4:30 pm
- Awards, gun raffles, and extensive door prizes.

SPONSORSHIP OPPORTUNITIES

- ❖ \$7,000 – Title Sponsor (3 teams)
- ❖ \$5,000 – Shirt Sponsor (2 teams) **or**
- ❖ \$2,500 – Shirt Sponsor (1 team)
- ❖ \$2,500 – Cart Sponsor (1 team)
- ❖ \$2,500 – Cap Sponsor (1 team)
- ❖ \$1,500 – Beverage Sponsor
- ❖ \$300 – Station Sponsor
- ❖ \$200 – Door Prize Sponsor
- ❖ \$\$ – Gun Sponsor

EVENT CONTACT

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bcampbell@argentmineral.com

EMAIL FORMS TO

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OR BY MAIL

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Lone Star Desk and Derrick Club of Dallas is a member of The Association of Desk and Derrick Clubs and is a non-profit educational organization. We are a 501 (c)(6) educational organization: Tax ID #35-2511125



Don Drake Bio:

Don Drake moved to Texas in 1996 when he was stationed at Fort Hood as a Field Artillery officer after graduating from West Point with a degree in Mechanical Engineering. After serving with distinction in the military, Don moved to Dallas with his wife Brooke and earned his MBA from SMU in 2001. After graduating, he began his career as an oil and gas banker at Bank of Texas where he was introduced to Desk and Derrick by his co-worker Star Hasse and he attended a number of excellent D&D meetings and field trips, learning tremendously and meeting a lot of great people.

Along with Star and several other co-workers, Don founded the Dallas energy lending arm of Amegy Bank. He later served as Vice President of Finance at Noble Royalties and then as President and Chief Strategist at Dominion Natural Resources in Dallas, TX where he successfully drilled in the Permian Basin. In 2014 Don transitioned to work with a Dallas-based family office in the hydrogen fuel cell and clean energy space, leading the acquisition of a fuel cell business based in Jakarta, Indonesia and exploring markets in Vietnam and other areas of the world.

Don currently serves as an independent consultant and in one of his projects, is energetically involved in business development in the B2B Payment Optimization space. He lives in Dallas with his wife Brooke and their two dogs, Stanley and Genevieve.

Products from Petroleum Word Search



Find the following words in the puzzle:

- | | | |
|-------------|-----------|------------|
| AMMONIA | COMPUTER | PARACHUTE |
| ANTISEPTICS | CORTISONE | PERFUME |
| ASPHALT | CRAYON | PLEXIGLAS |
| ASPIRIN | DETERGENT | SHAMPOO |
| BALLOON | ERASER | STYROFOAM |
| CAMERA | GLUE | TIRE |
| CANDLE | INK | TOOTHBRUSH |
| CARPET | LINOLEUM | UMBRELLA |