



Well Said

SPRING 2015 • Newsletter of Arizona Water Well Association for our Members and Friends

AZWVA MEMBERSHIP QUARTERLY MEETING

**Saturday, April 11, 2015
9am - 11:30am
at**

**Gicon Pumps & Equipment
7506 W. Madison St.
Tolleson, AZ**



**Presentation: 'Red Dyed Fuel and ADOT Requirements'
Speaker: Mark Molique, Esq., Snell & Wilmer**

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Company Name: _____

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_____ # attending

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*Contact Debbie Hanson Tripp to submit
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GOT NEWS?

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Open Houses? Other Events?

Jobsite Photos? Other Photos?

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Competency Based Training

By John Fowler, Safety Supervisor for National EWP

Training employees is one of the most important programs we can implement to keep our crews safe. In the not-so-old days, training consisted of pulling a crew member to the side, pointing at a piece of equipment and asking if that employee could operate it. The employee understood that he needed to say yes regardless of whether it was true, because if he said no and that he needed training, his supervisor would likely just keep asking until he found someone who said yes. The pressure to make a good impression often puts crew members in equipment or doing a task that they do not fully understand. And the lack of understanding usually applies to both the potential hazards involved as well as the most productive and efficient way to operate. So, lack of training not only increases the safety risk, it also impacts production.

Each company has its own standards for training. Hopefully the standards are high so that the crews in the field know how to work safely and efficiently. OSHA has a very informative booklet titled "Training Requirements in OSHA Standards and Training Guidelines" that can be found on the OSHA website. This booklet separates the OSHA standards into General Industry, Construction, Maritime, etc. and then lists the required training for each industry. OSHA (and MSHA for that matter) use terms such as "competent" person and "qualified" person to describe the competency of that person to do a job. According to OSHA a "qualified" person is someone who holds "*a recognized degree, certificate, etc., or extensive experience and ability to solve the subject problems, at the worksite*", whereas a "competent" person is "*one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.*" OSHA also uses the two terms "designated" and "authorized" interchangeably to describe someone who is "*A person approved or assigned by the employer to perform a specific type of duty or duties or to be at a specific location or locations at the jobsite.*" Not exactly the clearest standard, but OSHA has recognized the importance of training and having competent people who understand their task and the hazards associated with that task. And for the most part (exceptions being specialized training like crane operators) training can be done by anyone that the company "designates" as a "competent" person.

MSHA also recognizes the importance of training and has taken OSHA's requirements to the next level. For example, the training requirements just to set foot on a mine site are: 24-hour new miner training when hired followed by an 8-hour refresher each year. This training covers the general hazards encountered on typical mining sites. Once that training is completed, each individual mine has site-specific training to go through. Sometimes that training is a 20-minute video, but more and more often mines are requiring environmental training, lock-out tag-out try-out training and working at heights training. Once on your job site, MSHA requires each person to be task trained on the equipment being used. This training is documented on a government form called a "5000-23" form. Often, one of the first things an MSHA inspector is going to ask for when arriving on site is to see everyone's task training. Who can do the training? Once again, other than certain specialized tasks, the training can be done by someone the company deems a "competent" person. In other words, someone who has completed the CBT themselves.

So, we can have "designated" employees who are "competent" or "qualified" with training documented on a government issued 5000-23 form. Does this mean that they are truly trained and competent at their job? Not necessarily. We all know that paperwork can be easily "pencil whipped" especially when we don't feel there is time to stop and give someone the proper training. Partly because of this there is a strong push in the drilling and pump services industry for what is called "competency based training" or CBT. Competency based training takes traditional training one step further by verifying that the person has been taught a standardized way to perform a task and has been observed performing it correctly. How does it work? Well, to answer that, let's look at how training is often done out in the field using a 5000-23 form. Typically a driller or pump operator will pull aside a drill/pump hand and talk about how to do a task or operate a piece of equipment and then turn him loose. Maybe he will keep an eye on him to make sure he is safe and understands the associated procedure, maybe not. Regardless, at the end he will more than likely sign the drill/pump hand off on a 5000-23 and away he goes. Does having a signed-off 5000-23 form really mean that person is trained? Just because the driller or operator designates him as a "competent" person does this mean he is really competent? Let's look at the issues this type of training raises.

(Continued on page 4)

First off, what did the driller actually tell the trainee when he was explaining what to do or how to operate the equipment? An operator with 25 years of experience would explain things differently than an operator who just broke out with a year or two of experience. The more experienced operator would hopefully share his experiences and the task specific hazards to be aware of. The experienced operator would hopefully share “tricks” he has learned and remember at least some of what he was taught years ago. Secondly, how do we know that the drill/pump hand was listening and whether he understood what the driller or operator was explaining to him? Often the crew member is under pressure to nod and pretend to have heard/understand what he is being told. There is always the worry that if he asks too many questions or is hesitant he will miss an opportunity to impress his boss and will be the first in line when layoffs begin. And then there is the noise and activity on our sites that make concentrating and really listening difficult to say the least. Lastly, how do we know that the correct procedures were followed? It is not often that a driller or operator can devote the time to watch and evaluate what every crew member is doing. Often, if the trainee makes it through whatever task was being asked of him and nothing bad has happened, it is assumed he must know what he is doing. I know that when I began in drilling as a helper, I had a couple near misses that were the result of me not understanding my job. But because they were only near misses and not witnessed by anyone, everyone just assumed I knew my job. Our traditional training methods do work, but competency based training (CBT) adds the missing puzzle piece which is the verification that the crew member is really competent.

So, how does Competency Based Training (CBT) work? Typically a training document is created including all the hazards and controls for the equipment being taught, as well as technical, maintenance and operational information. This would standardize what is being taught and avoid the differences in training that would occur due to the trainer’s experience, memory, personal opinion and anything else that would vary from trainer to trainer. Who can train? A good CBT package will allow anyone who is competent with that specific piece of equipment or task to do the training. Let’s use a backhoe CBT package as an example. It would explain the hazards of backhoe operation and the controls to use to keep yourself safe. For example, it would explain how you need to keep 20 feet away from power lines and work on solid ground, staying away from overhangs. It would have a section explaining the proper procedure for operating the hoe: to swing and dump dirt on the uphill, not downhill which could cause you to overturn. The CBT package would discuss what fluids to check before operation and the capacity of the machine itself. Once the trainee is familiar with the package, there is a test to take to verify he understands the required procedures and safe operation of the machine. The final step is for the trainer to watch him operate the equipment and verify the equipment is operated safely and the technical limits are understood. For example, the trainer would want to observe the operator safely checking out the backhoe, driving the backhoe, operating the attachments, explaining the capacity of the attachments, understanding how to load a backhoe for transport, safely parking the backhoe and anything else the company would like their operators to know. A CBT package is also a great way to include tips that help the equipment to last longer. For example, in some backhoes the engine has to be idled above a certain rpm in order to pump enough oil for the turbo. Including this in the CBT package ensures that every trained backhoe operator understands to keep the rpms high and, in this case, potentially save a turbo or two.

Once the CBT package is completed, the trainer knows that the trainee has been given all the relevant information, and the safe procedures have been communicated. A 5000-23 form can be completed as well, but unlike the traditional training method, the company can feel confident that the newly trained operator is at a minimum competent to operate the machine, understands the procedures and knows how to follow the procedures correctly. Competency based training is a growing trend, and more and more companies are asking for both the traditional training documents as well as CBTs before starting the project. Not only can you build CBTs on operating equipment from drill rigs to backhoes to air compressors, but you can also build more general CBTs on slings/rigging, crane hand signals and even checking air brakes.

So, how do you build your own CBT program? You already have the most important part, which is the knowledge from years of running the equipment or doing the task that has allowed you to identify the operational issues and safety issues that need to be communicated. There are plenty of online tools that can be used to build the CBT package. It doesn’t have to be fancy. For example, the website: <http://www.slideshare.net> has a good general overview of competency based training, and <http://www.k4health.org> has a pretty good explanation of how to build a competency based training package. Involve as many people as you can from safety, operations, and maintenance, and decide what you want your operators to know. Design a test on the important concepts, and make up a checklist of what operations you would like to have observed. A well-trained crew will not only be a safer crew, but will also be a more productive crew. And at the end of the day we all want our projects to be completed safely and efficiently.

Congratulations, Bob Way!



The **Wickenburg Chamber of Commerce** presented **Bob Way** with the 2014 Man of the Year award during their 84th Annual Chamber Dinner held Saturday, January 10, 2015 at the Wickenburg Community Center. Congratulations to a well-deserved honor!



“Illustrated Glossary of Drillers Terms”

Remember the Dictionary that Marvin Glotfelty put together for us year ago? Well, it’s available under a new name and better than ever!! As you know, Drillers and Pump Installers have a language almost all our own and thanks to the contributions of Ron Peterson with Baroid IDP and Marvin Glotfelty with Clear Creek Associates, the NGWA Press offers this comprehensive great "tool" for training your new hires, giving to that engineer or geologist who doesn't talk like us, to the contractor who is ready for his/her licensing or certification exam - or to keep handy as reference. In 2003, it had 34 pages and now it has 69!

NGWA has been making this available on behalf of AZWWA and we get a portion of the sales! You don’t need to be a member of NGWA to order, just, contact them or go to: <http://info.ngwa.org/servicecenter/Shopper/ProductDetail.cfm?ProdCompanyPassed=ngw&ProdCdPassed=ngw-t006> .

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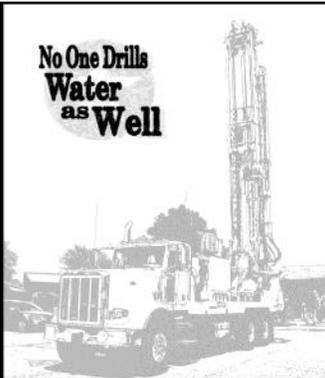
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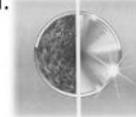
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AZWWA Membership Meeting January 10, 2015 at Clear Creek Associates in Scottsdale, AZ

The January 15th Membership meeting, hosted by Marvin Glotfelty, included an informative presentation by Larry Oxenham with the American Society for Asset Protection, on setting up and managing your business to protect your assets and save on taxes. The meeting room was packed. Gary Hix gave a demonstration on some of the new products he saw at the National Ground Water Association Convention in Las Vegas in December.





The “Water Supply Cost Savings Act” -- known as the “Savings Act” -- is federal legislation aimed at reducing the costs to federal, state, and local governments in providing quality drinking water to millions of Americans living in rural and isolated communities by promoting cost-effective community well water systems.

The Savings Act reduces the cost of providing quality drinking water to Americans in rural communities by promoting wells as the cost effective solution. If passed, the Savings Act will require that small communities seeking federal assistance for water infrastructure consider well systems.

There are 52,000 community water systems in the U.S., of which 41,801 are small community water systems (3,300 or fewer people). EPA’s most recent Drinking Water Needs Survey placed the shortfall in drinking water infrastructure funding for small communities at \$64.5 billion. Small communities often have difficulty financing the construction and maintenance of traditional long-pipe drinking water system as the cost per resident can be prohibitively expensive.

The Savings Act will help rural America and other small community systems cost-effectively meet critical water needs and public health challenges while supporting domestic manufacturing and jobs.

Originally introduced in the 113th Congress on September 18, 2014, by Congressman Marlin Stutzman (R-IN), the Savings Act will be reintroduced to the 114th Congress by Rep. Stutzman on March 3, 2015.

Following that reintroduction, a letter of support for the Savings Act that can be printed, signed and sent to local members of Congress will be available for download at watersystemscouncil.org and state association websites.

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ADEQ Officials Announce Conditional State Water Quality Certification Issued to Rosemont Copper for Proposed Mine

In February, Arizona Department of Environmental Quality officials announced that a conditional state water quality certification has been issued to Rosemont Copper Company for activities proposed under a Clean Water Act Section 404 Permit for the Rosemont Copper Project southeast of Tucson.

The proposed activities under the 404 permit include the discharge of earthen fill material into Barrel Canyon and tributaries including Wasp, McCleary and Trail canyons and other unnamed washes, during construction and operation of the proposed mine. The Certification and other supporting materials can be found at: <http://azdeq.gov/environ/water/permits/index.html>

Rosemont applied to ADEQ for the certification in January 2012 but the agency's review was suspended until the U.S. Forest Service completed its environmental impact statement (EIS) work on the project in December 2013. ADEQ's conditional certification is based on fill activities described in the Army Corps of Engineers Public Notice issued in December 2011 with some minor changes in the final EIS. Most of the discharges will result from the development of the mine pit and

construction of the waste rock storage areas, dry stack tailings facility and mining facilities.

ADEQ issued a draft certification on Feb. 21, 2014 and accepted comments through April 7, 2014. In response to public comment, ADEQ required Rosemont to prepare a Surface Water Mitigation Plan detailing all required monitoring, develop a surface water model to predict changes in surface water runoff and sediment because of the project, and to identify measures that Rosemont will implement should these potential changes have the possibility to impact downstream water quality.

ADEQ finds, subject to conditions in the certification, including implementation of the Surface Water Mitigation Plan, the activities proposed will not violate applicable surface water quality standards in the receiving waterbodies including McCleary, Wasp, Trail, Barrel and Davidson canyons and Cienega Creek. Should the Army Corps issue the CWA 404 Permit for the project, the state certification becomes a condition of the 404 Permit and is enforceable by the Corps.

"We share the public's concern about impacts to water resources and have worked diligently to insure that this certification meets all environmental protection requirements," said ADEQ Director Henry Darwin. "The Surface Water Mitigation Plan will provide ADEQ and the Forest Service with ongoing data and provides for mitigation measures, should they be needed, to ensure protection of Davidson Canyon and Cienega Creek, both Outstanding Arizona Waters."

For the mining operation to begin, Rosemont still needs the Forest Service to issue a final record of decision and approve the mining plan of operation in addition to the Army Corps 404 permit. ADEQ issued an individual Aquifer Protection Permit (APP) to Rosemont in April 2012. But if the record of decision changes the project design, an amendment to the APP may be required.



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Welcome New District Director!

During our meeting in January, **Chase F. Crane** with **Crane Machine & Pump Service** volunteered to be the District 4 Director which consists of Graham, Greenlee & Cochise Counties. Although Chase works out of Tucson, he plans to do his best reporting on activities in these three counties at our general membership meetings. If anyone has news pertaining to his District or would just like to welcome him aboard, he can be reached at 520-792-0792 or via Email at cranepumpaz@gmail.com.

FOR IMMEDIATE RELEASE

Boart Longyear Team Uses Dual-Tube Flooded Reverse Circulation Technique to Drill 60-inch Shaft through Loss Circulation Zones at Wyoming Coal Mine

SALT LAKE CITY – February 26, 2015 – A Boart Longyear (www.BoartLongyear.com) drilling team rose to the challenge as it bore down into the earth to create a ventilation shaft for an underground longwall coal mine in Southwest Wyoming.

The task? Guide a 60-inch bit to a depth of 550 feet through a challenging geological formation that included two aquifers – all in just over four weeks. Not only did they get it done, but they did so several days ahead of their deadline despite project start-up delays.

The key to their success? The dual-tube flooded reverse-circulation drilling technique, which allowed the extraordinary bit to penetrate loss circulation zones that precluded the use of a more traditional raised bore rig. The technique pumps air through the outer tube and forces mud and cuttings upward through the inner tube, preventing them from plugging porous rock formations.

Working around the clock in rotating, three-member crews, the Boart Longyear Salt Lake City Rotary Drilling Services team utilized a LMTM200 top head drive rig fitted with stabilizers and the massive bit. To minimize the risk of a mine entry collapse, the borehole was drilled off to the side of the mine tunnel and a 54-inch casing with 1/2-inch wall thickness was installed and cemented in place. Underground mine crews then mined over and punched through the concrete to open up the shaft.

“What our team accomplished was absolutely remarkable,” said Jason Lamb, U.S./Mexico territory contract manager at Boart Longyear, the world’s leading provider of integrated drilling services, equipment and performance tooling. “Drilling such a large-diameter hole through loss circulation formations in a single pass – and in less than a month and a half – is something few companies are capable of performing.”

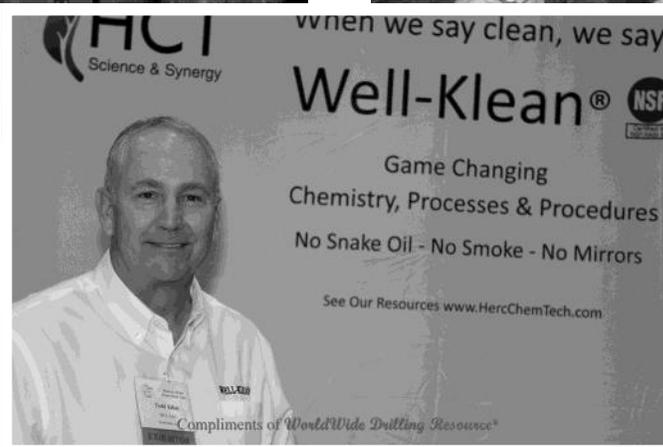
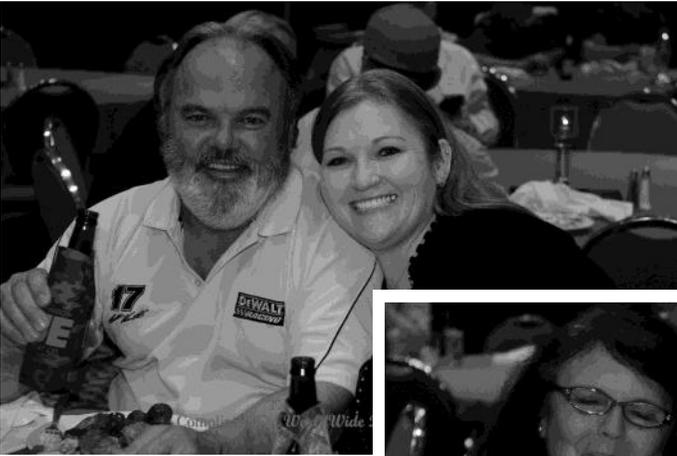
About Boart Longyear

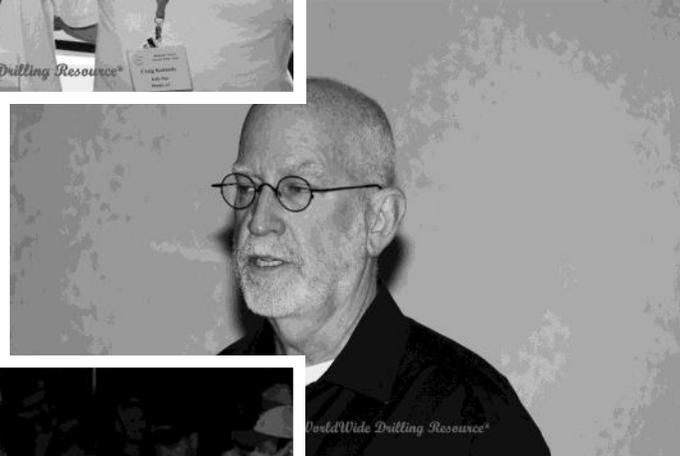
Celebrating its 125th year anniversary in 2015, Boart Longyear is the world’s leading provider of drilling services, drilling equipment, and performance tooling for mining and drilling companies globally. It also has a substantial presence in aftermarket parts and service, energy, mine de-watering, oil sands exploration, and production drilling.

The Global Drilling Services division operates in over 30 countries for a diverse mining customer base spanning a wide range of commodities, including copper, gold, nickel, zinc, uranium, and other metals and minerals. The Global Products division designs, manufactures and sells drilling equipment, performance tooling, and aftermarket parts and services to customers in over 100 countries.

Boart Longyear is headquartered in Salt Lake City, Utah, USA, and listed on the Australian Securities Exchange in Sydney, Australia. More information about Boart Longyear can be found at www.boartlongyear.com. To get Boart Longyear news direct, visit <http://www.boartlongyear.com/rssfeed>.

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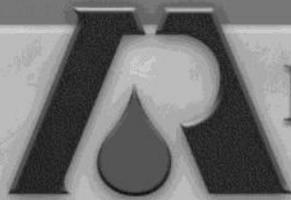




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AzWWA Member Product News and Services

Gicon Pumps & Equipment, Tolleson Arizona is excited to announce the addition of our new lineshaft turbine repair center. As a value-added pump specialty integrator of Gould's Water Technology turbine components, Gicon will design our products based on customer specifications and needs in order to provide you with the most efficient pumping systems and services available in the industry today.

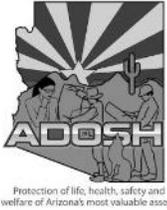
GPE Tolleson turbine facility has a large variety of stocking capabilities that will include turbine components from 9- 14" in both oil/ water-lubricated in both materials of construction, which include standard Class 30 cast iron and Class 45 ductile iron. Our standard impeller construction will be 316ss and shafting in either 416Sss or 17-4 PH to meet those harsh conditions. Gicon's new machining capabilities will allow same day service when the need arises.

Gicon Pumps is also a premier value-added manufacturer of complete oil lube tube and shaft assemblies. We specialize in oil tubes from two inch through four inch and provide threads for all major brands. In addition, Gicon manufactures open lineshaft assemblies and provides water lube spiders with bearings in all types of construction to meet the customer's needs. You will find all these products in stock along with column pipe to help complete installation and make Gicon a one stop to meet our customer's needs.

Gicon is proud to announce the addition of Tim Black as our production manager to oversee all turbine sales and repairs. Tim's vast knowledge of the turbine industry comes with over twenty-five years of turbine experience mainly in the Arizona market place. He worked alongside his father as a young man understanding the processes of turbine pumps in sizing, pulling, repairing and installing pumps in Arizona as a contractor. Tim's knowledge and experience will transfer to Gicon's turbine center to assure the customer is taken care of in a timely, professional manner and truly understand what the customer's need are.

Gicon Pumps is looking forward to earning your turbine business in the future through customer service, knowledge of products and quick turnaround to meet the customer needs in a timely manner. GPE will provide delivery of your products through our dedicated delivery fleet with our professional drivers who are friendly, reliable, and willing to meet your needs. We at Gicon Pumps are looking forward to working with our Arizona customers to fulfill all your turbine needs.





Does Your Company Need a Safety Data Sheet for Fire Extinguishers?

From ADOSH ADVOCATE 2015, Volume 2

The requirement for maintaining an SDS for all hazardous substances does pertain to fire extinguishers. Fire extinguishers perform a necessary and life-saving function, but exposure to the chemicals and gases may cause some serious health problems. To use a fire extinguisher safely, you should recognize the potential health effects of the fire-fighting chemicals and inherent hazards associated with certain types of extinguishers.

Users of a carbon dioxide extinguisher should ensure that there is limited exposure to the gas as this can lead to asphyxiation or even death if you are in a confined area or unventilated room. Further, the gas is compressed under very cold temperatures, and users can suffer from frostbite if the extinguisher is used incorrectly. The health effects associated with carbon dioxide fire extinguishing systems depend on the concentration. Carbon dioxide at 34% concentration is lethal. Carbon dioxide levels of 17% concentration can cause health effects such as unconsciousness, coma and even death, according to the EPA. At 10% to 15% concentrations the effects may include unconsciousness, drowsiness, dizziness and muscle twitching within a few minutes of exposure. Levels between 7% and 10% concentration can cause unconsciousness, dizziness, headache, shortness of breath, sweating and mental depression. At 4% to 7% concentration, CO₂ can cause headaches, difficulty breathing, mental depression, visual disturbances, hearing disturbances and increased blood pressure.

Dry-chemical fire extinguishers are widely used in the industry. Dry-chem fire extinguishers can cause health effects when the user inhales the powder. Nasal and throat irritation leading to cough or discomfort in the chest are the result of breathing the powder or the dust. Those with medical conditions such as asthma may experience serious respiratory difficulty after exposure to the dry compound, including during cleanup operations.

The health risks for halon extinguishers, upon exposure, can include asphyxiation, frostbite burns to the skin and skin and eye irritation. Inhaling halon compounds in high concentrations can cause central nervous system symptoms such as dizziness, unconsciousness and tingling in the arms and legs. Over-exposure may also compromise the cardiac system, causing irregular heartbeats or even heart attack in a severe case.

Your employees should review the SDS and the health hazards as part of their training and understand the proper storage and handling of the cylinder. Extinguishers kept outside during Arizona summer heat have exploded and should be stored at temperatures below 120F. Mount extinguishers on north facing walls to limit overheating by direct sunlight.

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Finally, it is time to address the "third rail" of water management: exempt wells that have no obligation to contribute to safe yield.



Initially, the Legislature should revisit the recommendation of the Hull water management commission to reduce groundwater pumped. Likewise, we need to begin collecting data on exempt wells: how many there are, how many people are served and actual volumes pumped. As we consider a future where recurring drought and diminished surface water supplies make this more difficult, and the temptation to scurry for new water supplies commands all our attention, we must first remember our commitment to safe yield. This promise is a large part of what makes Arizona water smart.

Karen Smith, a fellow at the Grand Canyon Institute, is a former deputy director at the Arizona Department of Water Resources and water quality division director at Arizona Department of Environmental Quality.

COUNTER POINT by Gary Hix, R. G., CWD/PI

One news item I saw on an internet news service both bothered and alarmed me as it was a former Director of the Arizona Department of Water Resources, Ms. Karen Smith, calling for tighter regulations on private Exempt water wells. See companion article.

She says that "we need to begin collecting data on exempt wells: how many there are, how many people are served and actual volume pumped". Perhaps Ms. Smith doesn't recognize that exempt well owners are part of the "we" also? "We" have been participating in reaching safe yield all along. "We" are the stewards of our own wells and aquifers and "we" are just as concerned (if not more so) about preserving or environment that surrounds and enhances us as the city dwellers.

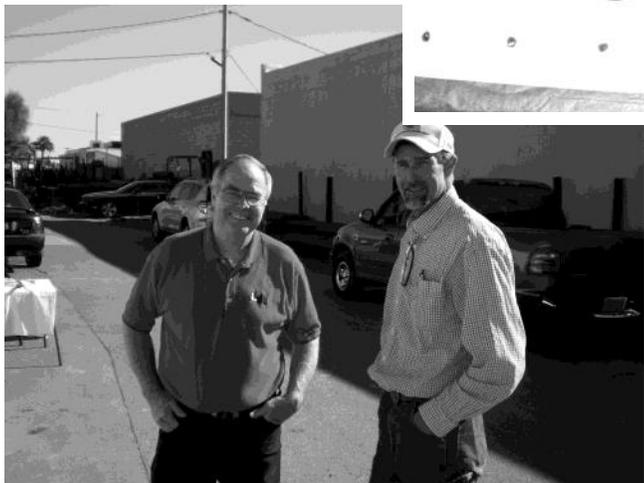
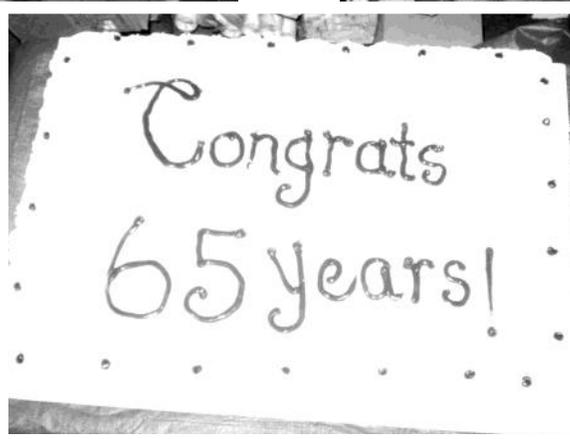
Private well owners are genuinely concerned about their aquifer, their well, their water quality, and what long term climate change will mean for them and their environment. We generally love our immediate surrounds and we carefully manage or aquifer and our well to preserve and protect it. We are generally not abusers of our groundwater because it is all that we have.

Perhaps it would be better if Ms. Smith looked to our State Legislature to consider some rules or regulations for protecting private well owners by having some workable water quality and well inspecting standards for the buyers of real estate served by private and shared water wells?



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Increased Misuse of Red-Dyed Diesel Fuel in Arizona Spurs Renewed Enforcement

By Julie Murphree, Arizona Farm Bureau:



If you or your employees are driving vehicles on public roads or highways fueled with red-dyed diesel and you're stopped and inspected, you will be fined and the penalties will be steep. Several industries have had to find this out the hard way. **Even if the owner of the farm, ranch or company had no knowledge of red-dyed diesel fuel use in non-highway use vehicles, the owner is responsible for paying the fine.** Responsible for providing a safe, efficient and cost-effective transportation system, ADOT is funded primarily by taxes generated from the sale of gasoline and diesel fuel.

However, Arizona state law allows for a certain type of diesel fuel to be exempt from motor fuel taxes. The genesis for this special exemption is the recognition that there is a certain degree of transportation occurring that does not negatively impact the public roads we use. This exempt fuel is called "red-dyed diesel fuel" because of the red dye added to it by the supplier and is designed for **non-highway-use vehicles**, such as farm, construction equipment, etc.

The tremendous benefit to a business is financially obvious. "Because of the provision of this exemption and since so much of what we do on the farm does not involve use of public roads this exemption is highly merited and a benefit to our input costs," says AZ Farm Bureau's Government Relations Director Joe Sigg. "But if we're driving around on public roads with red-dyed diesel in our trucks, the risk to the pocketbook is not worth taking. And now you know ADOT is specifically targeting new and stepped up enforcement."

Sigg suggests anyone with non-highway use vehicles brush up on the use of red-dyed diesel. The obvious concern for ADOT: Misuse of red-dyed diesel fuel reduces the amount of revenue available to fund the state transportation system.

Red-Dyed Diesel Fuel Program Summary (A.R.S. § 28-5610) - According to ADOT, The red-dyed diesel fuel program is intended to provide tax relief to individuals and businesses that use diesel-powered *vehicles designed for off-road* use that do not contribute to the wear and tear of Arizona's highways. Of the total volume of diesel fuel sold in Arizona each year, 20 to 25 percent is dyed fuel.

Red-dyed diesel fuel can be purchased through licensed diesel vendors, suppliers and restricted distributors. Dyed diesel fuel dispensers are required to be labeled as "*Dyed Diesel Fuel, Nontaxable Use Only, Penalty for Taxable Use*" to prevent unintentional on-highway use.

In fiscal year 2014, ADOT collected \$176.4 million in diesel fuel tax revenue. Estimates of lost revenue by misuse of the red-dyed fuel run \$5 to \$6 million.

Says ADOT, "Illegal use of red dyed diesel fuel hurts Arizona's honest businesses by creating a competitive advantage for those who don't pay their fair share of fuel taxes. Less fuel tax revenue negatively impacts the Highway User Revenue Fund and ADOT's ability to deliver projects that create jobs and deliver economic benefits for Arizona's communities and businesses."

Penalties for Improper Use of Red-Dyed Diesel Are Steep! A business entity and each officer, employee or agent of the entity who willfully participates in any act in violation of this section is jointly and collectively liable with the entity as follows:

(Continued on page 24)

- A penalty of \$1,000 will be collected for each occurrence or \$10 per gallon of dyed diesel involved, whichever is more.
- For multiple offenses, the amount prescribed above shall be multiplied by the number of occurrences.
- Additionally, a penalty can be applied to the main source, for example, a 10,000 gallon red-dyed Diesel fuel tank.

There can be criminal charges and civil penalties in addition to any assessed fuel taxes owed. If red-dyed diesel fuel has been dispensed into a fuel tank by mistake, the fuel tank should be drained entirely of the red-dyed fuel to avoid the possibility of receiving a penalty during an inspection.

It's Already Happening - Coconino County Farm Bureau President Jim Parks shares what happened to a local rancher who was using red-dyed fuel in a farm-plated ranch truck used exclusively on the ranch. "Since the truck had farm plates, the ranch was confident the simple drive into town for repairs was well within the legal use," Parks explains. "Once an estimate was given on required repairs for the truck, the ranch decided to pick the truck up and make the repairs itself. Turns out the mechanics were a bit miffed they didn't get to make the repairs and reported the truck driving on surface streets with red-dyed diesel fuel. Ultimately, the ranch paid \$130,000 in fines. The ranch has decided not to use any red-dyed diesel fuel whatsoever so a mistake can't be made in the future."

ADOT's enforcement officers can conduct inspections without prior notice and at any place where taxable fuel is present. Officers provide a Notice of Inspection, which outlines the officers' authority, to the individual or company representative prior to the inspection. However, no warrant is required to inspect use by the business; inspections can be conducted during typical business hours.

If you think an unannounced, onsite visit will not happen to you, it has already happened on at least one farm and to one of our AZWWA members. Without notice, Department of Transportation inspectors from its Fuel Tax Evasion unit showed up at these locations and began inspecting the truck tanks where fines were assessed.

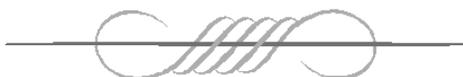
ADOT has assured Arizona Farm Bureau that their efforts are aimed at intentional abusers. However, ADOT also assures us that anyone caught using red-dyed diesel fuel in vehicles that are not **non-highway-use vehicles** will receive a penalty. Arizona Farm Bureau is also working with ADOT and others to incorporate more employee training opportunities for agriculture businesses that use red-dyed diesel fuel.

Parks suggests the penalty for misusing red-dyed fuel is not worth the risk and encourages employers to train their employees and make sure the fuel stays out of your business, employee and personal vehicles. The farm or ranch owner is the one responsible for the fines if the red-dyed diesel shows up in an employee's vehicle, even if the owner of the business had no knowledge of the fuel's use outside of farm equipment.

"It's a shame you have guys out there cheating the system," says Pinal County Farm Bureau President Richie Kennedy. "It makes it bad for everyone else, especially those that are truly innocent. Grown adults thinking they can get away with it when they're cheating a system that actually provides a valuable benefit."

Finally, to avoid the inadvertent misuse of the fuel, you can use clear diesel, track accounting, and apply for a refund at the end of the year. "At the end of the year, you do a one-time tax rebate form and you'll get your money back," explains Sigg.

For more information about red-dyed diesel fuel, go to ADOT's website at www.azdot.gov.



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Scholarship Recipient



I would like to express my most heartfelt appreciation to the Arizona Water Well Association for allowing me to be a recipient of this scholarship. The scholarship has helped me pay for my first semester tuition at the University of Arizona. I am currently pursuing a degree in psychology and a minor in sociology to hopefully work with pediatric oncology patients and their families.

My goal is to help as many children as I can work through the difficult experience that is cancer. I am currently taking classes both in psychology and women studies to diversify my college learning. I am dedicated to my studies and will continue my education thanks to AZWWA.

On behalf of myself and my family, thank you for making this scholarship available to qualified members' families. I am grateful for this opportunity.

Dakota Monasmith
Daughter of Jon Monasmith, AZCA Project Manager
and Hydrogeologist





Arizona Water Well Association Scholarship Criteria

The **AZWWA** offers educational scholarships in the amount of \$1,000 per semester for the children and/or grandchildren of contractors who have been members of our Association for a minimum of 2 years or employees of said contractor who has a reasonable relationship with the Association.

Other qualifications of the applicant are:

- Has the support of his/her family. If the applicant is a child or grandchild of an employee of a contractor, the owner/manager must also support the applicant.
- Acceptance by aforementioned Arizona institution. The Committee will take into consideration any requests or attendance at schools outside of Arizona.
- Full time enrollment. The Committee will take into consideration requests for less than a full schedule.
- Maintain a 2.5 grade point average.

The above qualifications are in reference to university or junior college enrollment. However, the Committee will consider requests for trade school or other participation at reduced levels of financial support if such education is deemed beneficial to the family's business effort.

A completed Scholarship Application, including a resume, a letter of endorsement from the applicant's parents or employer and a transcript from the last educational institution attended is required.

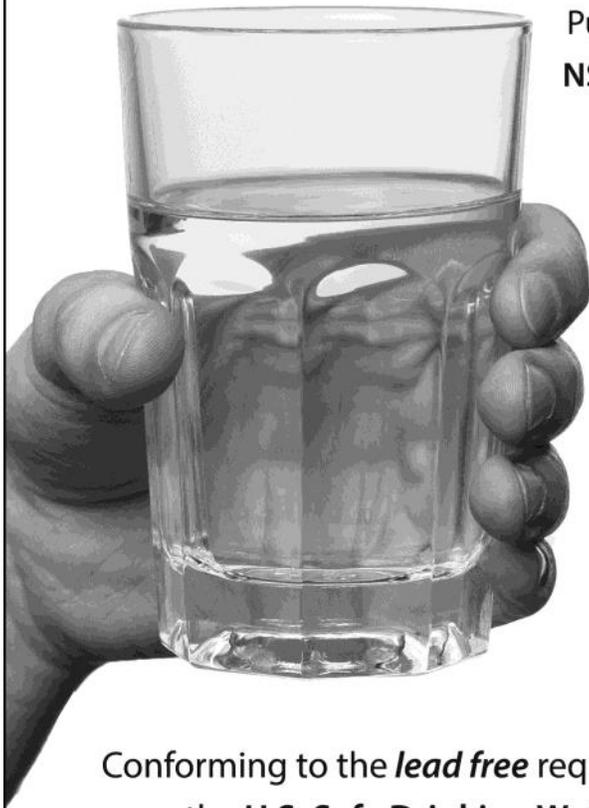
The sum will be paid upon applicant's submittal of proof of registration at an Arizona institution.

For more information or questions, please contact our current Scholarship Chair or the AZWWA office. To request a Scholarship Application, please contact the AZWWA Administrative office directly.

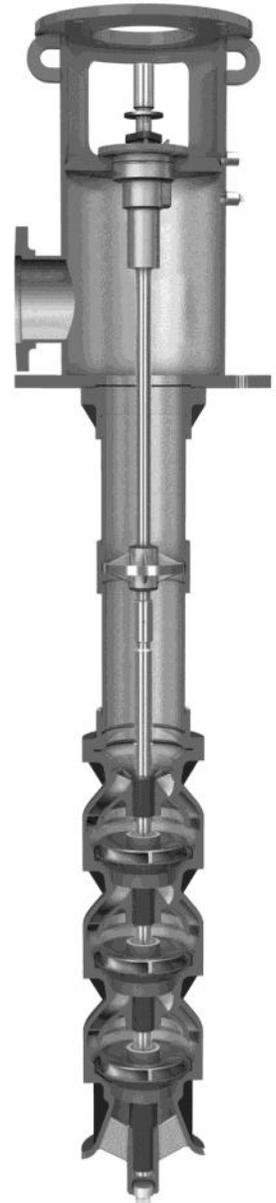
Scholarship Chair
Fred Tregaskes
fredt@natlpump.com
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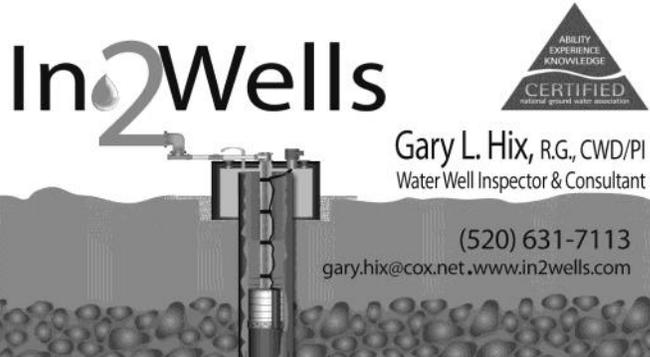
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Water Well Trust Completes First Well in Arkansas for USDA Project

WASHINGTON, DC, February 9, 2015 -- The Water Well Trust, the only national nonprofit helping Americans get access to a clean, safe water supply, announced that it has completed the first of 19 water wells it expects to drill or rehabilitate in northwest Arkansas and eastern Oklahoma to serve an estimated 145 individuals in this high-need, low-resource rural area.

In October 2014, the USDA awarded a \$140,000 matching grant to the Water Well Trust through its Household Water Well Systems Grant program for a project to increase potable water availability to rural households in five northwest Arkansas counties -- Franklin, Benton, Madison, Marion, and Crawford -- as well as Sequoyah County in Oklahoma.

The first well for this project was completed in January for a household in Chester, Arkansas. The homeowner, a disabled man with two children, had been pumping water from a pond for showers, dishes, laundry and toilets. His daughter contacted the Water Well Trust after reading about the first project completed in the area in 2012. The homeowner's situation was dire: "Sometimes we run out of drinking water and I don't have gas in my pickup to haul water, so we have to do without drinking water."

With the completion of the new water well, the homeowner now has full access to safe, clean drinking water. The second USDA project water well is expected to be completed this month near Rogers, Arkansas.

In 2012, the Water Well Trust completed a project to supply safe drinking water to six families near Rogers, Arkansas, which had been hauling water to use in their homes and buying bottled water for drinking and cooking for over 15 years. The cost for extending public water service, an estimated \$1.2 million, was prohibitive for both the families and water suppliers.

The Water Well Trust (WWT) has limited funds available for low-interest loans to eligible individual households in need of a new water well or rehabilitation of an existing water well. Prospective applicants can download the application form and instruction letter from the Water Well Trust website at waterwelltrust.org under "Apply" at the top of the home page.

###

Contact:

Margaret Martens, Program Director

Water Well Trust

mmartens@watersystemscouncil.org



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Events Calendar

April 11, 2015 - AZWWA Spring Membership Meeting

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9:00 — 11:30am

'Red Dyed Fuel and ADOT Requirements'

Speaker Mark Molique, Esq., Snell & Wilmer

May 6-8, 2015 - AZ Water Association 88th Annual Conference & Exhibition

Glendale Renaissance Hotel, Glendale, AZ

For more information call 928-717-9905 or go to their website, www.azwater.org

July 24, 2015 - AZWWA Summer Membership Meeting, Goldwater Lake in Prescott

Speaker: Jesse Richardson, Jr. with Water Systems Council

Topic: 'Updates on Legal and Legislative Issues in the Water Well Industry'

AZWWA Annual Golf Tournament, Location to be determined

July 25, 2015 - AZWWA Annual Picnic/Horseshoe Tournament/Chili Cook-off at Goldwater Lake

October, 2015 - AZWWA Fall Meeting, Exact date and location TBD