



THE NEXT GENERATION

Baby Stegan Baker, the next generation of Baker pump guys (Pump Service/Burley), Chase Bishop, Bishop Well Drilling (*lower left*) and WadeWilson, Gary's Well Drilling (*lower right*) enjoy their first IGWA convention. Wade found out that well drilling continuing education pays. He won the \$100 gift card in the CEC Drawing.









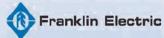


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IDAHO LEGISLATIVE

UPDATE Water quantity and water quality issues moved quickly to the forefront of this legislative session, starting with the Governor's *State of the State and Budget Address*. The Governor requested \$12 million for aquifer recharge activities and infrastructure, a figure that has since been revised upward to a one-time general fund appropriation of \$16.5 million spread over three years. Although some of this legislation does specifically address the Eastern Snake Plain Aquifer (ESPA), even the issues there are not solely related to agriculture, one aquifer or a specific geographic region.

Idaho needs to be committed to an on-going process to ensure aquifer levels are stable and sustainable. Many of our aquifer systems in Idaho face declining water levels, including the Treasure Valley, Mountain Home, Wood River, Bear River Basin, Rathdrum Prairie, Moscow-Pullman, and Lewiston aquifers. An estimated 95 percent of Idaho's drinking water comes from aquifers. Water quantity and water quality issues for these aquifers are critical to public health, economic development, and sustainable growth.

These issues will affect the future of the welling drilling industry in Idaho. The legislature and public need to know that water is the lifeblood of Idaho – necessary for human health and economic development. The State and stakeholders must do a better job of managing Idaho's water. Whenever possible decisions about managing our water need to be made by Idahoans, understanding the far-reaching impacts of these issues here and across the West.

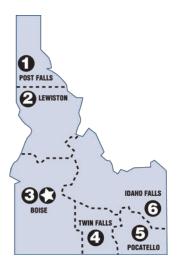


Idaho's Small Business Development Center (SBDC) is here for your business!

The Idaho Small Business Development Center (SBDC) is a statewide, university-based organization that helps small businesses succeed. SBDC consultants provide guidance in developing and growing a successful business. With six offices located throughout Idaho and affiliated with one of Idaho's universities or colleges, the SBDC is uniquely positioned to link together partners from higher education, the private business community, and federal, state, and local governments.

The Idaho SBDC assistance is available to anyone interested in expanding or starting a private small business in Idaho. Approximately, 98% of all firms in Idaho qualify as a small business and therefore are eligible for assistance from their nearest SBDC office.

Idaho's SBDC provides three key services to Idaho's start up and entrepreneurial communities:



<u>Consulting</u>: SBDC's primary service is no-cost confidential consulting tailored to individual businesses' needs. Coaches are available by appointment to help solve any business concern. Most coaches have earned a Master's in Business Administration, or a related degree, and have often owned their own small business.

<u>Training</u>: SBDC offers a variety of affordable trainings focused on practical business skills with consultants and local business professionals serve as instructors. Classes complement coaching sessions and help clients progress at an elevated speed.

<u>Resources</u>: The SBDC serves as the focal point for coordinating with other programs and services, both public and private, to bring additional expertise and resources for client assistance. They also help clients build strong professional teams to support and advance the business.

Please contact the SBDC if you want to: start a business and need help; expand a business; improve your current business operations; hire employees; develop and market an innovation or new technology; consider exporting.

For contact information for one of the six locations, visit: http://idahosbdc.org/locations/

For more information on the SBDC, visit: http://idahosbdc.org/

This concludes a three-part series on the Small Business Administration, Idaho Procurement Technical Assistance Center, and Idaho Small Business Development Center. Our thanks to contributors Larry Demirelli, Gary Moore, Lee Velten, & Katie Sewell.



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PROPER USE OF CASING AND LINER

BY TOM NEACE, PGE

Inspections and discussions with drillers over the past several years have shown a number of problems related to the improper use of liners in wells. The Idaho Well Construction Standards Rules (Rules), IDAPA 37.03.03 provides a number of key definitions when evaluating casing versus liner. Relevant definitions to this discussion include:

Casing. The permanent conduit installed in a well to provide physical stabilization, prevent caving or collapse of the borehole, maintain the well opening and serve as a solid inner barrier to allow for the installation of an annular seal. Casing does not include temporary surface casing, well screens, liners, or perforated casing as otherwise defined by these rules.

Liner. a. A conduit pipe that can be removed from the borehole or well that is used to serve as access and protective housing for pumping equipment and provide a pathway for the upward flow of water within the well. b. Liner does not include casing required to prevent caving or collapse, or both, of the borehole or serve as a solid inner barrier to allow for the installation of an annular seal.

Unstable Unit. Unconsolidated formations, and those portions of consolidated formations, that are not sufficiently hard or durable enough to sustain an open borehole without caving or producing obstructions without the aid of fluid hydraulics or other means of chemical or physical stabilization.

Screen (Well Screen). A commercially produced structural tubular retainer with standard sized openings to facilitate production of sand free water.

Artificial Filter Pack. Clean, rounded, smooth, uniform, sand or gravel placed in the annular space around a perforated well casing or well screen. A filter pack is frequently used to prevent the movement of finer material into the well casing and to increase well efficiency.

continued on page 11

Figure 1

Appropriate Use of Liner

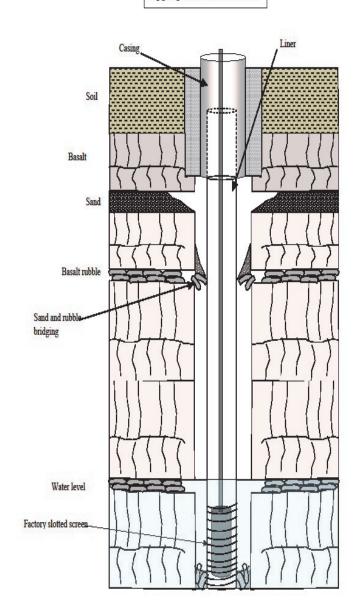


Figure 1 shows an appropriate use of a liner. There should be minimal sediment and or rock that falls between the liner and borehole wall. The liner should be able to be removed from the well and reinstalled if necessary. Manufactured well screen was installed in this example to limit sediment production.





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NGWA Launches Exciting New Partnership with SplashLink.com

NGWA and SplashLink.com, an online "one-stop" for the water industry, announced a partnership that will give NGWA members easier access to industry bids and projects, as well as funding opportunities throughout North America.

"SplashLink.com provides a resource that is unique in the water industry," says NGWA Membership Director Trisha Freeman, "We are always looking for ways to simplify our members' lives, and Splash-Link.com is the only service to put projects and funding in one easy-to-use Internet resource."

SplashLink.com is built exclusively for the water industry and not only provides access to millions in funding as well as thousands of projects, but also has search tools that make it easy to find just the kind of opportunities that are of most interest to each subscribing member.

"The National Ground Water Association is at the forefront of groundwater policy, education, and solutions," notes SplashLink.com CEO Ebie Holst. "We are proud to partner with them to put new tools at their members' fingertips."

NGWA serves more than 11,000 members, has 42 state affiliates, and relationships with dozens of domestic and international partners relevant to groundwater issues.

"The scope of NGWA is impressive, but what is even more impressive is their commitment to their members," says SplashLink.com Vice President Jason Wuliger. "We share their passion for the industry."

Two of the many SplashLink.com features that will now be available to subscribing NGWA members are customizable email alerts and enhanced visibility within the marketplace through the Splash-Link.com directory.

"We were impressed by SplashLink.com's ability to help our members avoid missing projects they could be working on," Freeman adds. "Part of our core mission is advancing the success of our members, and SplashLink.com is a way for NGWA to do just that."

NGWA members can now get an extra two weeks free on a SplashLink.com subscription by using promotional code NGWA-Splash16.

To learn more, visit http://info.ngwa.org/servicecenter/splashlink.cfm.

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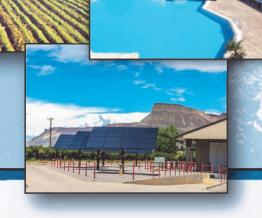
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Proper Use of Casing and Liner, continued from page 7

The Department has received multiple complaints regarding problems with thermoplastic pipe. In some cases a plastic liner was used in fractured bedrock, which later collapsed as a result of rock movement in an unstable unit. The well described in this situation should have steel casing installed because of the unstable unit.

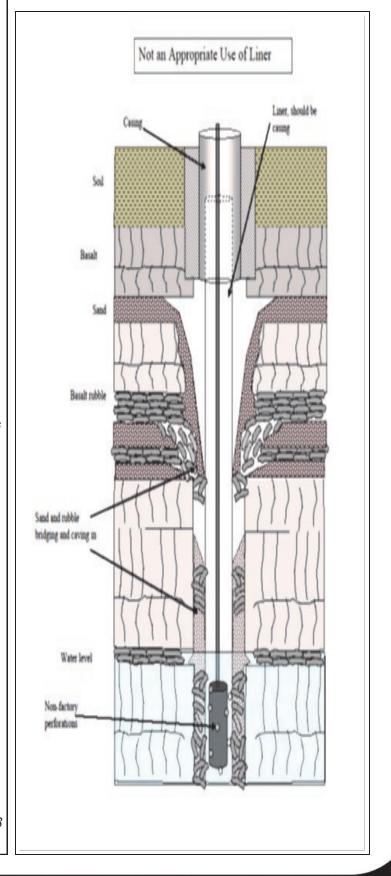
Other complaints have involved PVC pipe used as liner in an open hole within unconsolidated sediments. This construction has caused excess sand production in some wells. Manufactured screen and an artificial filter pack should be used to manage sediment production if necessary. The Rules limit sand production to less than 15 parts per million.

The following diagrams illustrate the proper use of casing and liner. Figure 1 shows an appropriate use of a liner. There should be minimal sediment and/or rock that falls between the liner and borehole wall. The liner should be able to be removed from the well and reinstalled if necessary. Manufactured well screen was installed in this example to limit sediment production.

Figure 2 shows an inappropriate use of a liner. In this case the formation is unstable and significant collapse of rock and sediment surround the liner. Large holes were drilled into the bottom of the liner to allow for water to flow into the pump chamber. Sand and small rock fragments enter into the liner through the large drilled holes preventing removal of the pump and/or the liner

continued on page13

Figure 2





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Proper Use of Casing and Liner, continued from page 11

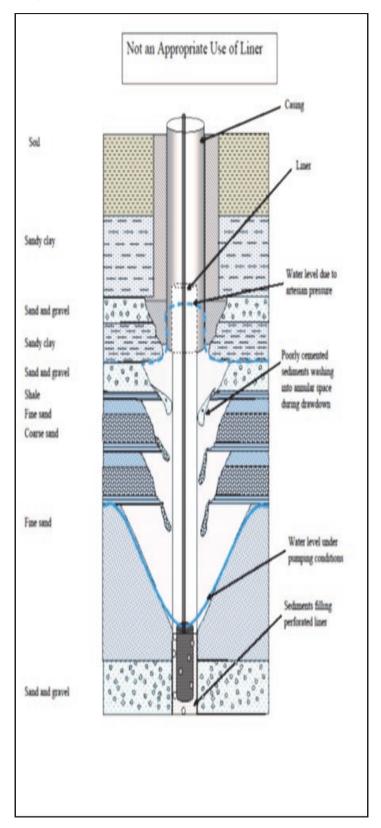
Figure 3 shows an example where a well is drilled into unconsolidated sediments and a liner is set. The water level moves significantly down as the pump comes on and comes back up when the pump shuts off. This results in significant sediment filling in the liner and pumping sediment into the water system.

Drilling and well completion in an area underlain by unstable units should be cased with steel well casing to minimize problems from subsurface movement of rocks and sediment. Wells in some areas of the State produce sand because of the presence of fine unconsolidated sediments. Commercially produced well screens along with the appropriate filter pack can eliminate or control sand production.

HHH

Thomas Neace is a registered professional geologist in Idaho since 1990 and has over 25 years of experience in hydrogeology, geology, ground water remediation and well construction. He is Manager of the Ground Water Protection Section at the Idaho Department of Water Resources since 2006 regulating well construction, driller licensing, injection wells and geothermal drilling/development.

Figure 3





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In Remembrance



Lynn Douglas Bartholomew June 26, 1946 - January 4, 2016

Lynn Bartholomew, 69, of Spokane, WA passed away on January 4, 2016. The Memorial Service will be held January 30th, 3:30pm at Linwood Seventh-day Adventist Church, 6525 N Monroe St, Spokane, WA. Lynn was born in

Spokane, WA on June 26, 1946. He graduated from Upper Columbia Academy and continued on to receive a degree in Aircraft Mechanics from Spokane Community College. Lynn was married to Kathie on June 8, 1969; they were married 46 years. Lynn worked as Owner/Operator of Northwest Hydro-Fracturing for 30 years. Lynn is survived by his wife Kathie, children: Jeff (Carolyn) Bartholomew, Janell (Paul) Bailey, Sangi (Paul) Knouff and Dan (Ann) Bartholomew and 9 grandchildren. His brother Gary (Angie) Bartholomew, sister-in-law Carol Harvey, brother-in-law Ron (Marian) Schultz, 6 nieces & nephews and other family and friends. In lieu of flowers memorial donations may be given to Spokane Countryside SDA Church, Security Camera/Sign Fund. Gifts may be sent to 12107 W Seven Mile Rd, Spokane, WA 99224

LEGISLATIVE UPDATE, continued from page 4

One such issue is recharge. Incidental recharge occurs naturally when water returns to the aquifer from precipitation, snowmelt, river losses, and even irrigation practices such as canal seepage. Managed recharge is different from incidental recharge in that it changes the timing and location of when and where water returns to the aquifer. Both are beneficial.

As for the session itself, the rules review process is winding down. The deadline for rule adoption or rejection is March 4th. The Joint Finance-Appropriations Committee (JFAC) finished its budget hearings in mid-February. The budge setting process is underway in JFAC with a tentative completion date of March 11th. This is one of the sure-fired indicators that this legislative session is passing its midpoint. To date, no major problems or conflicts have surfaced to delay or extend the session.

IGWA opposes S1243 that would allow certain irrigation districts to enter into contracts to construct or deepen wells. With no consensus in the water community, it is most likely this bill not be heard this session. On the energy front, three oil and gas bills were introduced recently, one in the House and two in the Senate. They address recordkeeping and procedures relating to permitting and drilling of oil and gas wells. HO454 amends and adds to existing law to create the Damage Prevention Board and to provide for its duties regarding the prevention of damage to underground facilities passed the House and is now in the Senate.

Follow the Idaho legislature on the internet at https://www.legislature.idaho.gov/



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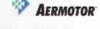


















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Other CEC opportunities: If you need credits to relicense in 2016, check out IGWA's CEC Workshops on March 11th in Nampa and March 17th in Fort Hall. More information on page 20 or at www.igwa.info.

Another option is the Pacific Northwest Ground Water Expo in Portland, OR on March 18-19th at Red Lion Hotel on the River - Jantzen Beach

IGWA Member Business Listings: Have you checked out your business listing on IGWA's website? It's conveniently located on the Membership tab. Click on the gold box, explore the features, and see your website! If you are new member, your listing will be posted later this spring. IGWA is helping customers find you!

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NGWA SEEKS VOLUNTEERS FOR WATER WELL PUMP SYSTEMS STANDARD DEVELOPMENT

NGWA is calling for professionals to volunteer their time as subject matter experts in the creation of a new American National Standards Institute third-party-accredited standard for water well pump systems.

Volunteering on committees and task groups can be used toward continuing education requirements for NGWA Certification—including working on draft standards.

More information about the Water Well Pump Systems Standard is available at www.ngwa.org/ Professional-Resources/standards/Pages/Water-Well-Pump-Systems.aspx.

Meetings will be hosted online via collaborative software, conference calls, and email communication. While all of these are helpful, the only technology necessary to participate in task group work is a telephone and preferably a fax machine or email address.

Interested volunteers are asked to respond as soon as possible by filling out the Standard Development Task Group application located at the link above.

For more information, contact Jessica Michell at jmichell@ngwa.org or (800) 551-7379 (614-898-7791), ext. 511.

Issue: Use of Submersible Well Pumps in Bodies of Water

Warren Wing, Electrical Program Manager. Idaho Division of Building Safety

Background: Recently, the Division of Building Safety (DBS) became aware of the fact that the submersible well pumps being installed in bodies of water are not listed by the pump manufacturers for that application. For many years, these pumps have been routinely utilized to provide both domestic water and irrigation for properties bordering lakes and rivers, primarily in north Idaho.

Baseline requirements for utilization of electrical equipment in Idaho:

- 1. Title 54 chapter 10 §54-1001, Idaho Code states: "From and after the taking effect of this act, all installations in the state of Idaho of wires and equipment to convey electric current and installations of apparatus to be operated by such current, except as hereinafter provided, shall be made substantially in accord with the National Electrical Code". Idaho has currently adopted the 2014 edition of the National Electrical Code.
- 2. Article 110.3 of the 2014 National Electrical Code relating to the examination, identification, installation, and use of equipment stipulates:
- "(A) Examination. In judging equipment, considerations such as the following shall be evaluated:
- (1) Suitability for installation and use in conformity with the provisions of this *Code*

Informational Note: Suitability of equipment use may be identified by a description marked on or provided with a product to identify the suitability of the product for a specific purpose, environment, or application. Special conditions of use or other limitations and other pertinent information may be marked on the equipment, included in the product instructions, or included in the appropriate listing and labeling information. Suitability of equipment may be evidenced by listing or labeling.

(B) Installation and Use. Listed or labeled equipment shall be installed and used in accordance with any instructions included in the listing or labeling."

Certification and approval of electrical products and materials: All electrical materials, devices, etc. are required to be approved for the use intended. IDAPA 07.01.10 § 011 states the following:

011. CERTIFICATION AND APPROVAL OF ELECTRICAL PRODUCTS AND MATERIALS.

In the state of Idaho, all materials, devices, fittings, equipment, apparatus, luminaires, and appliances installed or to be used in installations that are supplied with electric energy shall be approved as provided in one (1) of the following methods:

- **01. Testing Laboratory.** Be tested, examined, and certified (Listed) by a Nationally Recognized Testing Laboratory (NRTL). (3-20-14)
- **02. Field Evaluation.** Non-listed electrical equipment may be approved for use through a field evaluation process performed in accordance with recognized practices and procedures such as those contained in the 2012 edition of NFPA 791 Recommended Practice and Procedures for Unlabeled Electrical Equipment Evaluation published by the National Fire Protection Association (NFPA).

Conclusion: Submersible Well pumps are listed (approved) for specific purposes. Per Underwriters Laboratories, submersible well pumps approved under UL 778 have not been evaluated for use in bodies of water where swimming, boating, and other recreational activities take place. Therefore, the listing of submersible well pumps under UL778 does not suffice to allow the Idaho Division of Building Safety to approve these types of pumps for applications other than those addressed in the listing of the equipment in question. Further, UL approvals are contingent on any listed equipment being utilized in conformance with the manufacturer's instructions for installation and use. **Continued on page 22**

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Submersible Well Pumps, continued from page 19

The Division of Building Safety has been searching for another accepted standard that would apply to submersible well pumps being utilized in a body of water, but has been unable to identify such a standard. The Division encourages interested parties to bring forward any information relative to an applicable standard and pumps that have been tested and listed for utilization in the circumstances discussed in this paper.

Employing an approved field evaluation testing agency to conduct a field evaluation of the pump for utilization in the proposed application is not a viable option unless/until a proper standard can be identified to facilitate the review process.

Other pumping equipment can be utilized in conformance within the listing parameters of alternative pumps to safely provide domestic and irrigation water to lakeside properties.

Policy:

As a result of this investigation process the Division of Building Safety is adopting the following policy.

- 1. Submersible Well pumps are not listed for use in swimming or marine areas, and such an application of the submersible pump typically conflicts with the manufacturer's installation and usage instructions. Therefore, The Division of Building Safety cannot approve the installation of submersible well pumps and associated wiring in bodies of water where swimming, boating, and other activities take place that could place the public in danger.
- 2. When existing submersible well pumps located in bodies of water where swimming, boating, and other activities take place that could place the public in danger are replaced, any replacement pumps must be approved for the application and be installed in conformance with the manufacturer's installation instructions.
- 3. Installations of approved equipment, installed in accordance with labeling, listing and manufacturer's instructions, used to withdraw water from bodies of water will be approved in accordance with Idaho Division of Building Safety's standard permitting and inspection procedures, in accord with adopted rules, statutes and the National Electrical Code as adopted by the State of Idaho.

If you have any questions or concerns, please let me know.

Warren Wing,

Electrical Program Manager Idaho Division of Building Safety, 1090 E. Watertower St., Ste. 150 Meridian, ID 83642 (208) 332-7147 Warren.wing@dbs.idaho.gov