

UTAH GROUND WATER ADVOCATE

SPRING 2010 EDITION



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LETTER FROM THE PRESIDENT

RICHARD PETERSEN

Well it's that time again. It has been a little while and full of a lot of things. Where to start! Well I'm adjusting slowly to dad being gone and things have slowed down as we have finally caught up with our work load. We have had the National convention, our convention, the Mountain States convention and the Washington DC Fly In. I can say I'm glad for a break and yes, everywhere I've been it is the #1 question asked (any work?) and I have to say it looks equally tough everywhere. The most work is in the heat loop industry if people can get funded. As for Utah as you can read in Jim Goddard's comments it is Pump Installer Licensing. In our latest board meeting we were discussing clarifications in the scholarship applications and reorganizing the convention. We would like to have more time with vendors, so as to maintain their help and support at the show. We are thinking about you all and our industry. If you would like to attend a board meeting to share ideas or just want something in the news letter please contact Colette Reed or one of the board members.

Remember the Moab outing is coming up. It is always a good time for all who attend thanks to the Zimmerman's who really do a great job. We as an Association may help and support it, but we should give credit where it is due. The time and effort is all them. Thanks from me to them for all their hard work. Everyone please be careful out there and do your best.

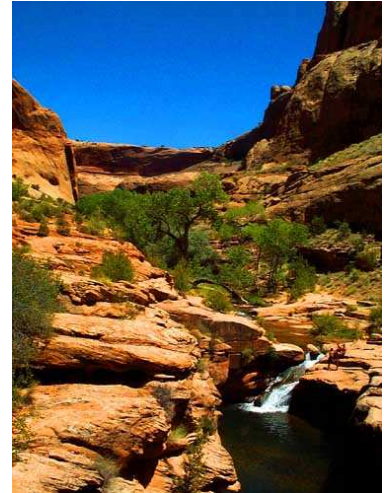
Your president Richard Petersen

MOAB WATER WELL CONVENTION

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UTAH GROUND WATER ASSOCIATION Membership Application

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- B. **MANUFACTURER:** Any person, firm or corporation engaged in the manufacturing of equipment, or materials used in the ground water industry.
- C. **SUPPLIER:** Any person, firm or corporation engaged in the sale of equipment or supplies associated with the ground water industry.
- D. **TECHNICAL:** Any hydrologist, geologist, or engineer involved in teaching, research, consulting and or government services associated with the ground water industry.

This membership allows the joining one representative and spouse/partner of a firm or corporation to benefit from all the privileges of membership in the Utah Ground Water Association. All membership dues are \$50.00 per year, with the year running from February to February. These dues cover membership only in the Utah Ground Water Association. The Utah Ground Water Association is affiliated with the National Ground Water Association and the Mountain States Ground Water Association.


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NEWS FROM THE STATE ENGINEER'S OFFICE

JIM GODDARD

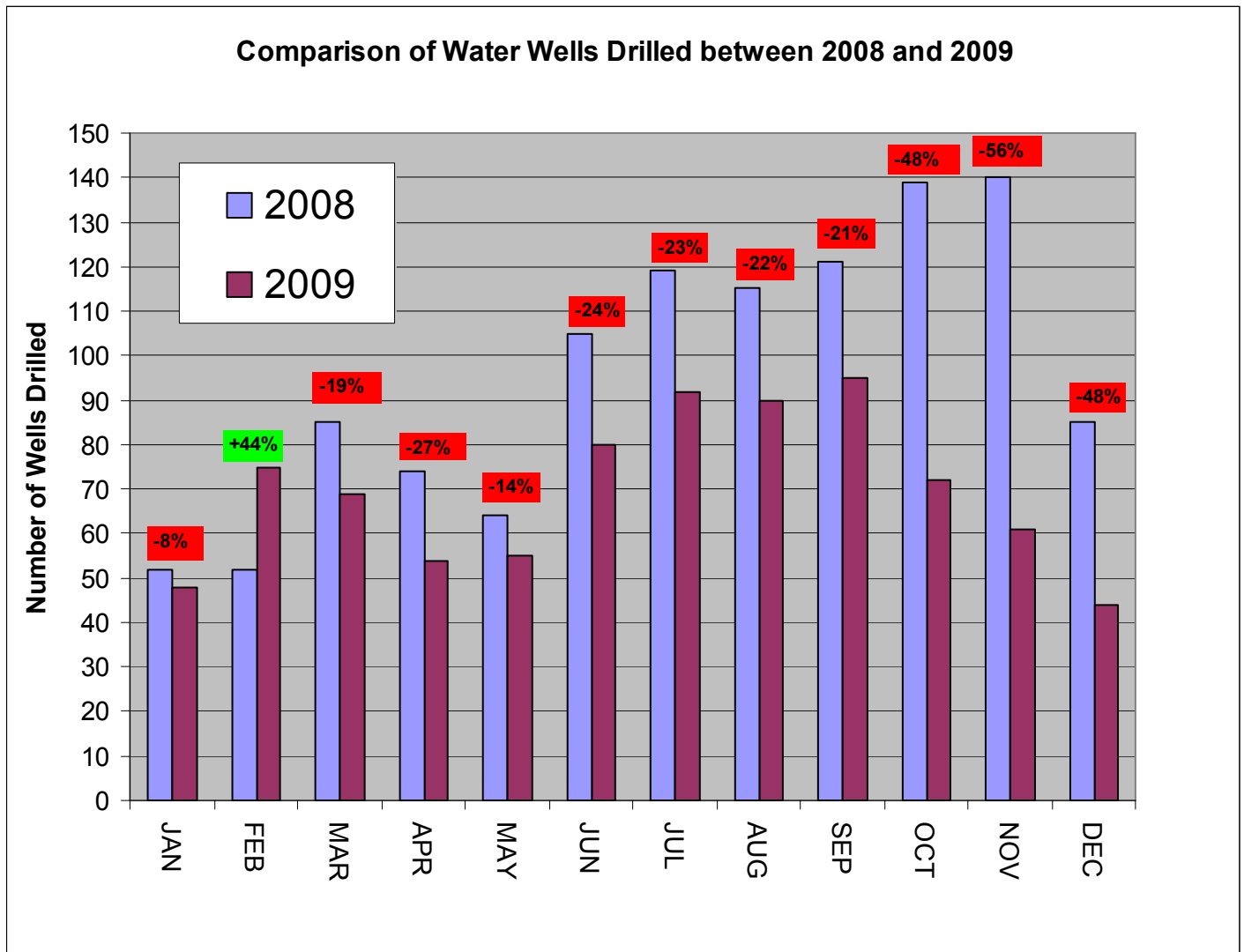
Utah Division of Water Rights Well Drilling Program

2009 WELL DRILLING STATISTICS AND COMPARISONS

Presently, there are 162 well drillers licensed in the State of Utah and 186 registered operators. A total of 2116 wells were drilled in 2009. The 2009 wells are broken down as follows:

- 190 DOM/IRR/STK Wells
- 18 Public Supply Wells
- 58 Stock Watering Wells
- 129 Irrigation Wells
- 10 Commercial/Industrial Wells
- 62 Monitor
- 63 Test Wells
- 24 Cathodic Protection Wells
- 1560 Heat Exchange Wells (Closed Loop)

Due to several factors (mainly the economy), the number of wells drilled in the State has dropped off considerably especially from the latter half of last year to present.



The following table illustrates the comparison of wells drilled in 2008 versus 2009 and the percent change between the two years.

ANNUAL WATER RIGHTS WELL DRILLING SEMINAR

As part of the well driller continuing education program, we will be offering a six hour well drilling seminar to drillers and others interested on Thursday June 3, 2010 in rooms 1040, 1050, and 1060 of the DNR Building (1564 West North Temple in SLC). The seminar is free of charge. The seminar will begin at 8:00 am and finish at 3:00 pm. The agenda for the seminar will include: 1) an overview of well drilling rules and current issues; 2) public supply well rules and regulations; 3) basic hydrogeology; 4) geoexchange wells; and 5) GPS for well drillers.

NEW PUMP INSTALLER LICENSING

During the 2010 Legislative Session, House Bill 226 (Sponsored by Representative Patrick Painter), requiring professional pump installers to be licensed and regulated by the Division of Water Rights, passed both the House and Senate and is awaiting signature by the Governor. Information regarding this bill can be found at <http://le.utah.gov/~2010/htmdoc/hbillhtm/hb0226.htm>. This bill requires licensing and regulation of professionals who conduct pump installation and repair work for compensation in regulated wells.

The changes to the well drilling statute (Section 73-3-25) will require licensing by those who conduct pump installation and repair work professionally and for compensation. Those individuals conducting this type of work on their own property and on their own well will be exempt from licensing. Those individuals who currently hold a full water well drillers license shall be grandfathered in to allow them to conduct this type of work (many are already doing pump work) and would not be required to obtain a separate pump installers license.

As a result of the passage of this bill, the Administrative Rules for Water Well Drillers (R655-4 UAC) will be modified during the course of this year to incorporate pump installer licensing and regulation. A committee will be formed consisting of drillers and pump installers to assist in the development of these regulations. If you would like to serve on this committee, please contact Jim Goddard at the Division of Water Rights.

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Utah Ground Water Association Scholarship Program

The UGWA Scholarship Program is made available to assist and encourage the education of qualified active UGWA members, their spouse, children and/or grandchildren.

You are eligible to apply for a UGWA scholarship if you are:

1. An active UGWA member, their spouse, child or grandchild;
2. And the sponsoring UGWA member has been active for a minimum of one calendar year prior to application;
3. And a student who is currently enrolled or planning to enroll at a full-time course of study at an accredited two or four year college, university or vocational-technical school and who is accepted by that institution during the year which the scholarship is given.

HOW TO APPLY

You must submit all information in the format you feel will best show your achievements and accomplishments during your scholastic career. Scholarship selection will be based on the following information submitted for review:

- **Fully Completed UGWA Scholarship Application Cover Sheet**
- **Academic Record/Grade Transcripts**
- **Minimum of 3 Written Recommendations From Teachers, Advisors or Counselors**
- **Demonstrated Leadership and Extracurricular Accomplishments**
- **Statement of Economic Need**
- **Educational and Career Goals**
- **Work Experience and History**

You must submit all relevant information to:

Utah Ground Water Association
% Colette Read, Executive Secretary
5577 Walden Glen Dr, Murray UT 84123

All applications must be **received no later than June 15, 2010**. Incomplete applications will not be considered. Scholarship awards will be based on the selection process made by the Salt Lake Community College, Office of Financial Aid. All submittals will be confidential. No UGWA members will be involved in the selection procedure. The number of awards will be based upon the financial strength of the Association's Scholarship Fund.

SCHOLARSHIP AWARD:

The scholarship award will be in the amount of \$2,000. All awards will be made by check payable jointly to the student and the sponsoring member and must be endorsed by both.

Utah Ground Water Association Scholarship Application Cover Sheet

Name: _____

Birth Date: _____

Address: _____

Social Security: _____

Email: _____

Home Phone: _____

Cell Phone: _____

Work Phone: _____

High School: _____

Sponsoring UGWA Member: _____

Current Academic Achievement: _____

Detailed statement about plans for college/advanced schooling, anticipated fields of study and reasons for consideration for UGWA scholarship award *(attach additional pages as needed)*:

DRAPER IRRIGATION COMPANY HIDDEN VALLEY PILOT WELL

CLINT DILLEY, P.E., EPIC ENGINEERING

Introduction

In January of 2010, Draper Irrigation Company (DIC), a private water company that provides culinary water and pressurized irrigation to the majority of Draper City, selected Boart Longyear Drilling Services to drill a cased pilot well to obtain water quality and aquifer data in order to determine the feasibility of drilling a large diameter culinary production well. The pilot well is located just north of the 14th Fairway of the Hidden Valley Country Club Golf Course at approximately 11800 South 1770 East just off the golf course maintenance road. Conventional mud rotary drilling was used.



Sands and clays typical of several wells in the vicinity were encountered throughout most of the drilling. Some sand sloughing occurred just below the bottom of the 100 foot surface casing.

Well Depth (Deepest Well Drilled In Vicinity)

Drilling was successfully completed to a depth just over 2000 feet and was drilled remarkably straight (given the depth) with a horizontal deviation averaging less than 1 degree. Prior to this well, the deepest well within a 2 mile radius was just shy of 1300 feet. Geophysical logs were performed on the well including sonic, natural gamma, single point and multi-electrode resistivity, spontaneous potential, fluid conductivity, and temperature. Upon review of the formation samples and geophysical logs, hydrogeologists for both Epic Engineering and Boart Longyear identified a few small zones beyond 1300 feet with water bearing potential; however the final consensus was to end the casing at 1200 feet. There were already several water bearing zones identified between 400 and 1200 feet, therefore the potential for additional water beyond the 1200 feet depth was not significant enough to justify the additional expense to case the hole to 2000 feet. Although the additional depth was not further developed and characterized, it is still noteworthy for advancing the understanding of the local hydrogeology and beneficial to others considering drilling to depths deeper than traditionally drilled in the south east end of the Salt Lake Valley.

Design Considerations

Epic Engineering served as the design engineer and construction manager and teamed with hydrogeologist, Mr. William “Todd” Jarvis, P.G. to provide hydrogeology services for the project.

Continued on Page 12



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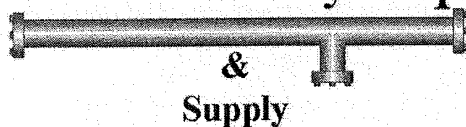
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DRAPER IRRIGATION COMPANY HIDDEN VALLEY PILOT WELL (CONTINUED)

Design considerations for this pilot well included casing the borehole so that the well could be developed and pump tested, as opposed to using an uncased borehole. Limited budgets and/or other considerations often limit pilot wells to small diameter, uncased boreholes that are just big enough to collect formation samples and perform geophysical logs of the well. While this information is critical to characterizing the aquifer and identifying potential water bearing zones, it is incomplete without development and pump testing. Well development and pump testing provides the owner with an uncontaminated representative water quality sample and tests the aquifer on a small scale, providing a direct correlation between yield and drawdown. The Hidden Valley Pilot Well was developed by air lifting and then pump tested using a submersible pump. After 24 hours of constant rate pumping at 330 GPM, a drawdown of 23 feet was measured. Preliminary estimates of long term pumping for a full production well (if drilled) indicate a safe yield of up to 1500 GPM.

Other design considerations included provisions for a sanitary surface seal (and subsequent certified grout witness) and well head construction (casing stickup/lockable cap/etc.) to allow conversion of the pilot well to a monitoring well in the event a production well is drilled in the future. This is beneficial over the other alternative (well abandonment) if the production well is drilled nearby in the same aquifer and drawdown is measured in both wells during pump testing. This drawdown information is invaluable in determining the shape of the “cone of depression” and predicting aquifer storage and thickness.



Noise (Residential Area/Sound Walls)

Often the most significant challenge drilling a well in a residential area is not losing circulation or maintaining borehole stability, it is keeping the neighbors happy. Noise generated by drilling and auxiliary operations is significant and regularly leads to noise complaints and shutdowns if acceptable sound pressures are exceeded and drilling occurs after hours. In addition, a noise relief waiver from the Salt Lake Valley Health Department is difficult to come by for drilling a “pilot” well as opposed to a “production” well. Without the waiver, drilling operations are limited to 12 to 15 hours per day.

Continued on Page 14

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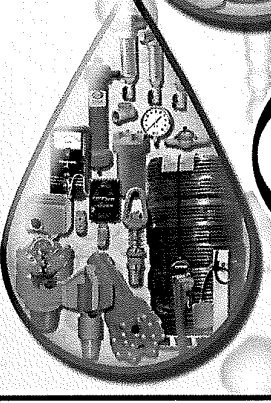
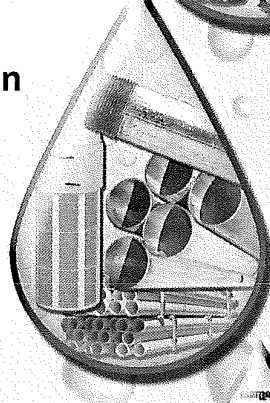
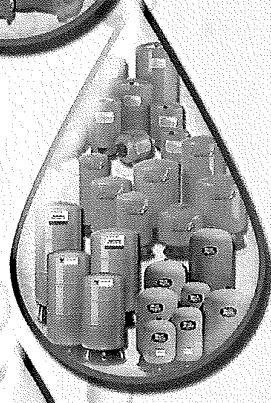
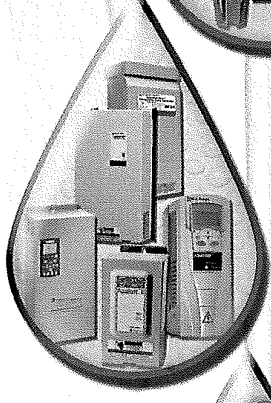
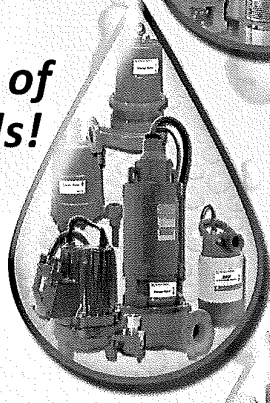
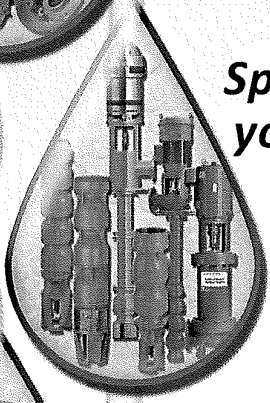
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DRAPER IRRIGATION COMPANY HIDDEN VALLEY PILOT WELL (CONTINUED)

24 hour a day operations are essential during some phases of well drilling to reduce standby & startup time (especially in cold winter months), reduce risk of borehole collapse and ensure adequate data collection during pump testing. For the Hidden Valley Pilot Well, DIC held an open house several weeks prior to beginning drilling operations to inform nearby residences of what to expect and allow them a forum to voice concerns over noise and other issues. DIC also provided a public relations specialist to keep people informed during drilling and resolve issues. For their part, Boart Longyear installed a



sound wall system on two sides of the site perimeter which consisted of concrete block bases, poles, and blankets. The sound walls were 20 feet high and included a gate/curtain that could be open and closed as necessary to gain access to the site, since the entrance was limited to the same side requiring sound protection. Boart Longyear also sequenced and staged materials to limit operations to “essential” equipment only throughout the night time hours and blanketed generators to further reduce sound levels. Sound reduction was achieved from 80 dBA to 60 dBA. The joint effort between DIC and Boart Longyear proved to be successful as they were able to satisfy the neighbors and obtain a noise waiver relief permit. This allowed them to complete 24 hour drilling operations during critical phases of the drilling. The well was successfully completed in February 2010.

Summary of Pilot Well Characteristics:

Borehole Diameter:	9-7/8"	Total Well Depth:	2,010'	Pump Test:	330 GPM
Steel Casing Diameter:	6"	Total Cased Depth:	1,200'	Drawdown:	23'
Static Water Level:	286'	Screened Length:	260'	TDS:	780 mg/L

Project Team

Owner

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Engineer

Epic Engineering, P.C.
Clint Dilley, P.E., Project Manager
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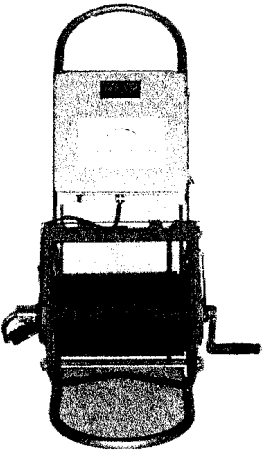
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2010 Mesquite Convention

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info@gardnerbrothersdrilling.com

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dedvalson@mitchellewis.com

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