

1st Quarter 2014 ISSUE

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**"In times like these,
it is good to
remember that there
have always been
times like these."**

**Paul Harvey,
radio broadcaster**



Client Project — Deep borings and monitoring wells

Recently Bulldog Drilling completed yet another phase of a very complex project at an industrial facility located south of St. Louis, MO.

Soil & Rock Borings

To complete this phase of work Bulldog Drilling, Inc. (BDI) began drilling with hollow stem augers to approximately 20 feet. At that point, due to the sand and gravel near the Mississippi River, mud rotary was utilized to complete the boring. Split-spoon samples were collected continuously to the top of rock at a depth of 130ft to 140ft BGS. Once the top of rock was reached, 3-inch flush thread casing equipped with a diamond bit was spun into the top of the bedrock approximately 1ft to 2ft to seal off the sand and gravel during the rock coring. NQ Wireline rock coring equipment was utilized to retrieve continuous rock cores to the termination depth of approximately 190ft BGS.

Once the rock coring was complete packer testing began. Due to the complex nature of the project each borehole required approximately 2 days of packer testing. Due to certain geologic features in one of the borings, BDI provided a down hole camera to video log the boring. All borings were tremie grouted upon completion.

Bedrock Wells

To complete the monitoring wells BDI began drilling the monitoring well with 4-1/4" ID hollow stem augers to a depth of 20 ft. Once again mud rotary was used to collect continuous split-spoon samples to the top of rock. Once sampling was complete the 4-1/4" ID hollow stem augers were removed and 8-1/4" ID augers were drilled to a depth of 20 feet. At this point 6-inch flush thread casing equipped with a diamond bit was spun into the bed rock approximately 1ft to 2 ft to seal off the sand and gravel during the rock coring. 3-inch flush thread casing was installed to stabilize the tooling during rock coring. NQ Wireline rock coring equipment was utilized to retrieve continuous rock cores to the termination depth of approximately 190ft BGS.

Upon completion of the rock coring, packer testing was performed in the same manner as the borings. Once packer testing was completed, the bedrock was rotary reamed to 6-inches and a 2-inch schedule 80 PVC monitoring well was installed.

Projects of this nature are extremely complex and require knowledgeable drillers with the necessary equipment to complete the project as required by the client.

Please consider Bulldog Drilling for any of your future drilling needs whether small or large, Bulldog Drilling can complete your project too!

A Look From Within:

Annual Honduras Mission Trip

On January 23, 2014, members from Abiding Savior Lutheran Church, including Bulldog Drilling's own John Gates, embarked on a water well drilling mission trip to Honduras. The group arrived in San Pedro Sula that afternoon and proceeded to drive to La Cieba before dusk, as travel at night in Honduras is not advised. Early the next morning, the team traveled to Tocoa where the drill rig and other equipment are kept at the Water Mission International offices in Honduras. The next day after inspecting and performing the much needed and expected maintenance on the rig and equipment, the well drilling team headed out to the drilling site at Aldea Rio Arriba.

After setting up the equipment, the team began drilling. The drilling started off as planned and was proceeding as well as can be expected for the remainder of the day. The next day the team encountered its first issue... rock at 30 feet deep. The drilling continued but at a much slower pace at roughly five minutes per foot. On the third day of drilling, hoping to get through the rock, the team encountered a major issue with the drill rig. The seals and bearing on the Kelly swivel failed gushing water and fluid from the top of the rig over the operators below. Even though the team did not have access to the appropriate parts and tools, a half a day was spent attempting the repair, only to have it fail again.



Without working equipment, it was determined that the well was at sufficient depth of 45 feet. The screen and casing were installed and the well was sealed with sand and cement. The next day, the well was developed and was found to be producing roughly six gallons of water per minute which would be more than enough to supply the two 250 gallon storage tanks for the filtration system.

The mission was deemed a success and the people of Aldea Rio Arriba were very pleased with the efforts of the mission trip. This effort would not have been possible without the dedication and support of the individuals on the trip and corporate sponsorships.



**"By means of water,
we give life to everything"**

Otis' Corner

I would like to thank one of our vendors who answered my Christmas wish! Right before Christmas I received a package in the mail. I was so excited because I had never received anything in the mail before!!! See picture to the right.



Well to my amazement this is what Julie found in the package!!! A new set of balls to fetch!! I'm really ready for Spring to arrive now so I can get out every day and chase down some balls!!

UGH!! I really don't want to face another winter event!! Will spring ever get here?? I think I will just hibernate here the next 4 weeks!!! I really need to have a talk with that Groundhog Phil!!!! Maybe he doesn't realize what his prediction does to us animals that like to play outside.



Let me know
when it's over!!
Nighty-Night
everyone! See
you in the
Spring!!



From The Desk of Sherri Marlo

I would like to thank all of our clients for being patient with us due to the severe weather conditions during the last couple of months. Along with everyone else we've have had to deal with some extreme weather situations lately. This extreme cold has also caused numerous equipment issues so not only has the weather been hard on the crews but also our schedule and clients! We appreciate your understanding.

Along with rig and weather issues, one of our drillers left to pursue other endeavors in January. This has left us with a job opening for a rig operator. If anyone has any contacts or may know of someone with drilling experience that might be interested, please have them contact us.

I would also like to mention an event that is right around the corner and open to the public on April 5th, 2014. It's the 10th Annual "Cause for Paws" Dinner/Auction that benefits the organization **Helping Strays of Monroe County**. This is held at The Falls in Columbia, IL. Tickets are \$60.00 per person which includes dinner and open bar. It is a great cause and a lot of fun!! If you need more info please see www.helpingstrays.org for more details.

**Thank you for taking the
time to read the
Bulldog Bulletin!
We appreciate all your
support and business.**



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Bulldog Drilling, Inc. offers high quality Geotechnical and Environmental drilling services to various types of clients including private individuals, Consulting Firms, State, Federal and Municipal Governments. We have the necessary equipment, trained personnel and experience to perform soil borings, soil sampling, monitoring well installation, rock coring, direct-push Sampling, and many other services in support of Geotechnical and Environmental projects. We welcome the opportunity to provide our services for both small & large projects!

- Geotechnical and Environmental Drilling, Sampling, and Monitoring Wells
- Woman-owned business
- Licensed in five Midwestern states & New Jersey
- More than 40 Years of Experience