Well Drilling & Pump Installation Program

Presented to the Board by Chris Neel and Charlie O’Malley on July 20, 2021
Well Drilling & Pump Installation Program

- Well system components
- Program summary
- Continuing education
- Well logs (completion and plugging reports)
- Advisory council
A drilled well provides a direct conduit into the groundwater. If a well is not drilled properly with all the necessary sanitary seals in place, the well could provide a direct pathway for surface contamination into the well and the aquifer.
Photo Example – Well Head
Surface Seal Inspection

Soil probe should encounter cement surface seal within 4 feet
Photo Example - Pump
D/PC Program Summary

• Manage licensure for all persons engaged in the commercial drilling or plugging of:
  • Groundwater wells
  • Geotechnical borings and monitoring wells
  • Pump installation
  • Geothermal wells
  • Marginal quality water wells
  • Cathodic protection*
  • Drilling/Pump Contracting (DPC) Licenses: 350
  • Operator Certificates (OP): 621

• Prepare examinations and establish other requirements for applicants to obtain, maintain, and renew licenses and operator certifications

• Conduct inspections and enforcements

• Manage the indemnity fund and well logs

• Establish Well Drilling and Pump Installation Advisory Council

Program History

› Title 82 Sec. 1020.16 Commercial Drilling
› 1972 – Construction standards for wells
› 1982 – Licensing requirements
› 1992 – Monitoring well standards
› 2003 – Online well log filing program
› 2018 – Marginal wells
Drilling and pump contractors are required to obtain 8 hours of continuing education per 2-year license period.

2021 Workshops hosted by OGWA/OSU
- 8 Sessions
- 183 Registered
- 251 Certificates (7/13)

Presenters included:
- OWRB
- Baroid/Haliburton
- Franklin Electric
- Grundfos Pumps
Well Logs

The OWRB well log database contains approximately 206,000 well logs submitted by water well contractors, staff members, and the public.

Completion reports, “Well logs” are required to be filed within 60 days of drilling or plugging a well or borehole.

Completion Reports (Well Logs) by Type

- Groundwater Wells and Test Holes: 60%
- Monitoring Wells: 25%
- Geotechnical Borings: 12%
- Geothermal Wells: 2%
- Cathodic Protection Wells: 1%

*Lithologic Log

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<th>From</th>
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<tr>
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Advisory Council

Duties
• 2-year terms
• Recommend and develop new rules and amendments
• Promoting education of the state’s drillers and pump contractors
• Review and approve/deny indemnity fund expenditures for
  › Remediation
  › Inspections & enforcement
  › Education

Qualifications
• Well driller or pump installed licensed for at least 5 years and in good standing
Drilling Demonstration

Associated Environmental Industries, Corp.

"NEW HORIZONS"

The TEAM from AEI, Corp. invites you and members of your staff to attend a day of Roto-Sonic Drilling.

Field Day
- Roto-Sonic Drilling
- Geological Sampling
- Field Sieve Analysis

Goldsby Water Authority is adding additional municipal wells. AEI will Roto-Sonic drill, sample and obtain full lithology and install a stainless steel well with glass bead filter pack.

If you are needing accurate science to properly design a well, then Roto-Sonic will become your choice of drilling, coring, and sampling.

Meeting place: 35.160633, -97.462708 (Goldsby, Oklahoma)
Date: Tuesday, July 20th
Time: 8:00am
Who: Goldsby Water Authority