

Mobile County Water, Sewer and Fire Protection Authority's Boykin Road Well's 10th Anniversary

In 1998, as part of Mobile County Water's wellhead protection plan, Daniel J. O'Donnell, PG, completed a comprehensive hydrogeologic study of the aquifers underlying the Theodore area of Mobile County. The study identified five distinct sand aquifers between ground surface and a depth of 600 feet. These aquifers were correlated through the use of cross sections developed from electric and driller's logs, then mapped by Dan to identify sand trends.

The aquifer trend maps were used to identify six potential wellsites for future consideration as the system expanded to meet increasing demand. One site, the Boykin Road site, was mapped showing the Upper Theodore Aquifer to be 125+ feet thick on land owned by the utility.

In 2000, on the recommendation of OAI, the Boykin Road site was drilled. The electric log, see inset at right, shows the e-log of the aquifer. It was present at the mapped depth and slightly thicker than mapped. In late 2001, the Boykin Well, see below, was tested up to the rate of 1,900 gpm and permitted for 1,000 gpm.

Putting geology to work allowed MCW to maximize their financial resources targeted for groundwater exploration.

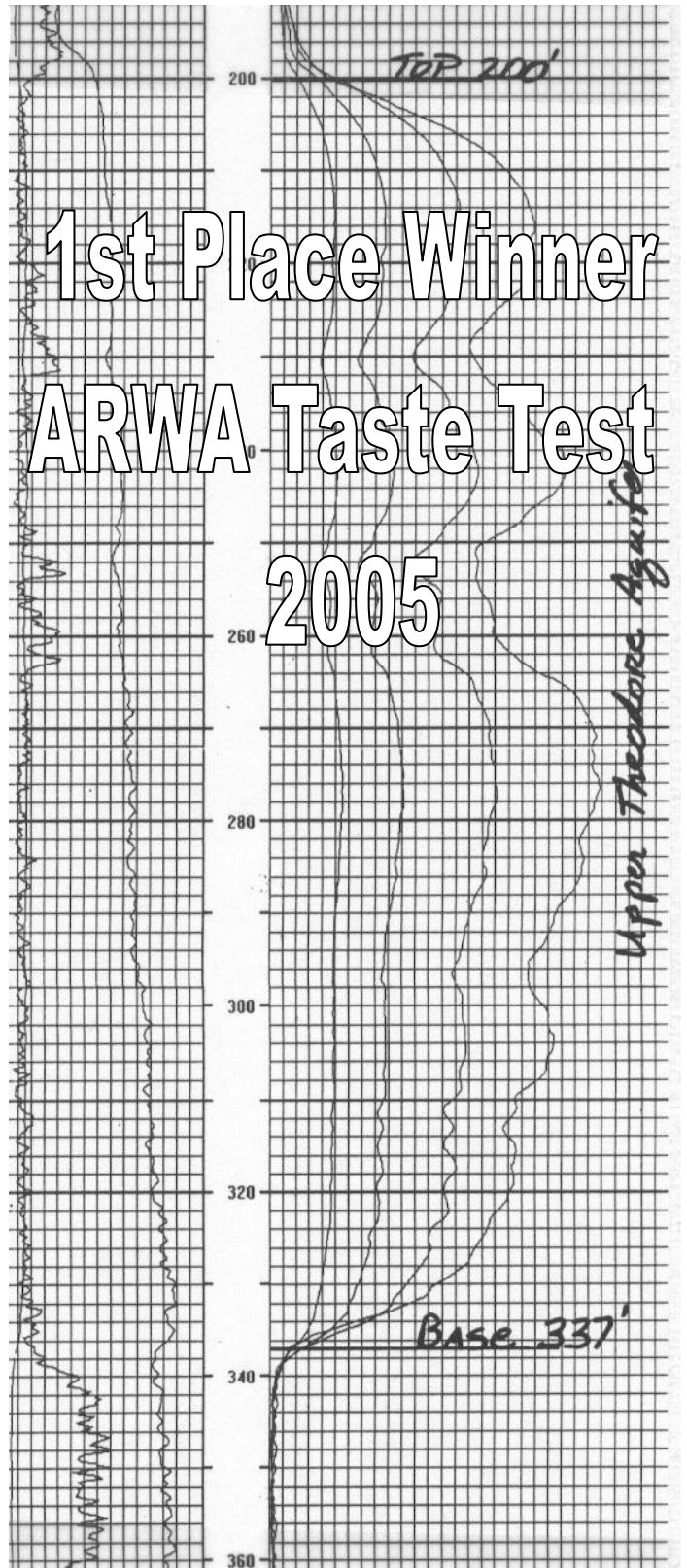


MCW's Boykin Well, 2011

Question:

Is your water exploration program budgeted for failure using the "wildcat" method or is it planning for success using OAI's hydrogeologic approach?

Contact OAI today and begin "putting geology to work" for you.



Electric log of the MCW's Boykin Road Well (drilled June 26 to 28, 2000)