

Injection Well Feasibility for Blowdown Water

Mulberry, Florida



Layne worked 24 hours per day, 7 days per week to drill to 8,000 feet below land surface.

Key Project Areas

Power Utility

Injection Well

Turnkey Construction

Exploratory Drilling

Carbon Dioxide Sequestration

Layne was hired to drill a Class V Exploratory Well to obtain hydrologic and geologic information that would be used to determine the feasibility of a Class I Industrial Injection Well for the disposal of non-hazardous grey wastewater and cooling tower blowdown water. The drilling plan included substantial core analysis, packer testing, and geophysical logging. The well was completed with 4,400 ft. of 18-inch steel casing and a liner of 10.75-inch fiberglass reinforced tubing. The project also included a dual-zone monitoring well.

The well was originally designed to be completed to a depth of 5,800 ft. below land surface. Layne was asked instead to drill 8,000 ft. and obtain additional geologic and hydrologic information about the formation. Layne designed and installed a custom cementing packer for the tubing and developed special carbon-dioxide resistant cement so that the well would be suitable for future carbon dioxide sequestration testing and functionality.

