



Injection Well in Florida

**PROJECT PROFILE
WATER MANAGEMENT**

INJECTION WELL FEASIBILITY FOR BLOWDOWN WATER

Mulberry, FL

SITUATION:

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 feet of 18-inch steel casing and a liner of 10.75-inch fiberglass reinforced tubing. The project also included a dual-zone monitoring well.

SOLUTION:

Layne worked 24 hours per day 7 days a week to drill 8,000 feet below land surface. The well was originally designed to be completed to a depth of 5,800 feet below land surface. Layne was asked instead to drill 8,000 feet 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.

SERVICES EMPLOYED:

- + Power Utility
- + Injection Well
- + Turnkey Construction
- + Carbon Dioxide Sequestration
- + Exploratory Drilling

