

## **ABSTRACT**

PetroLogistics Olefins, LLC (PetroLogistics) operates a 11-cavern storage terminal and brining facility at the Bayou Choctaw Salt Dome in Iberville parish near Plaquemine, Louisiana. The PetroLogistics Choctaw Facility currently stores Ethylene, Ethane, Ethane/Propane Mix and Natural Gas for various customers. In addition to storage operations PetroLogistics maintains 3 caverns for brining activities. PetroLogistics has minimal brine storage and must continue to produce brine to support storage operations. Brining operations also support the brine sales business for PetroLogistics.

This paper will outline the successful plugging operation and workover of Well No. 6 and Well No. 6A, respectively, that will allow Cavern No.6 to be returned to commercial service. Cavern No. 6 is a dual entry cavern that had been out of service for many years because of a casing failure (casing shoe leak) in Well No. 6 and no commercial need for the cavern at the time of the failure. Based on the success of the project this paper will present some of the challenges and lessons learned during the project. The intention of the paper is to highlight some of the important concepts of the project and not outline each step of the workover prognosis and plugging operations.

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