
Design, Engineering and Construction of a Crude Oil Storage Facility

Project Summary

Jefferson Island Storage Hub (JISH) consists of two salt dome storage caverns situated beneath Lake Peigneur in Iberia Parish, LA. Due to its proximity to the Henry Hub, a major pipeline center in Louisiana, JISH is a key element of the U.S. natural gas transmission network. Parsons Brinckerhoff Energy Storage Services (PBESS) provided design and engineering services for a planned facility expansion involving two additional storage caverns and 20,000 incremental compression hp.

(LONG-FORM PROJECT DESCRIPTION FOLLOWS)

Jefferson Island Storage and Hub

Erath, Louisiana

Owner

Jefferson Island Storage and Hub LLC

Background

Jefferson Island Storage Hub (JISH) consists of two salt dome storage caverns situated beneath Lake Peigneur in Iberia Parish, LA. Due to its proximity to the Henry Hub, a major pipeline center in Louisiana, JISH is a key element of the U.S. natural gas transmission network.

Parsons Brinckerhoff Role

Parsons Brinckerhoff Energy Storage Services (PBESS) provided design and engineering services for a planned facility expansion involving two additional storage caverns, associated brine disposal wells and 20,000 incremental compression hp.

Project Elements

- Surface and subsurface design engineering.
- Permitting services.
- EPC services for leach plant rehabilitation and brine disposal well drilling.

Project Description

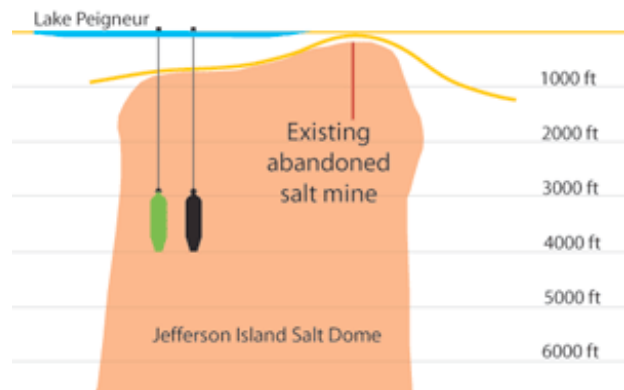
PB provided design and engineering for surface and subsurface facilities necessary for the addition of two underground caverns with 7.5 bcf working gas capacity. This included redesign/reconstruction of an existing leach plant, drilling two new salt water disposal (SWD) wells and rehabilitation of two existing water wells. PB also performed dredging design and permitting services for construction access.

Cavern construction has been indefinitely delayed due to local opposition to further industrial development.

Teaming

PB was the prime engineering/CM consultant. Lead subcontractors included:

- Halliburton
- Baker Hughes
- Smith Drilling & Completions
- Waldemar S. Nelson, Inc.
- WHC Contractors



- **Staffing**
- Tommy Smith served as project manager; Raghu Raghuraman served as principal-in-charge.



Schedule

Engineering began in April 2006 and drilling and construction was completed in April 2007.

Project Numbers: 50661, 50671 & 50672

Creation Date: 11/10

Approved By: Tommy Smith/Tim Reichwein