

HELICAL PILE SYSTEMS

Limited Access Solutions

info



As part of their Deep Conversion Project, Total Petroleum was adding numerous Pipe racks to their Port Arthur Refinery in Texas. Several pipe racks were supported using a custom designed screw pile that made the foundation installation quick and economic. No field welding was required, structural steel was bolted directly to the screw pile, and installation rates of 20-30 per day were achieved.

Additionally, one of the largest pipe racks required a foundation that had to be located on the edge of a water supply canal. Overhead power lines, an adjacent existing pipe rack, and environmental concerns with the canal all complicated the construction of this foundation.

The original design called for driven precast concrete piles with a concrete pile cap. By using screw piles, Cyntech was able to redesign the entire foundation to be constructible within the constraints while using less than 50% of the quantity of piles. Using a pre-fabricated steel pile cap further reduced costs and improved schedule.

In the end, this project was completed within the tight time frame and on budget.

PROJECT: Deep Conversion Project

CLIENT: Total Petroleum

LOCATION: Port Arthur, Texas

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