



GAS PROCESSING PLANT

CLIENT - Confidential

LOCATION - Southeast Texas

COMPLETED - December 2019

DESCRIPTION

Matrix PDM Engineering provided engineering, project management, procurement, and project control services for a new gas processing facility. The facility was built to receive 200 MMSCFD of natural gas at a tie point near the southeast corner of the greenfield site. It consists of an inlet gas separator, inlet compression, a 350 GPM amine treatment process, a 200 MMSCFD cryogenic process unit including turboexpander and propane refrigeration, residue gas suction scrubber, and residue gas compression all provided by Exterran.

The facility balance-of-plant (BOP) equipment included NGL pipeline pumps, a residue gas coalescer, flare system, thermal oxidizer system, open-drain sumps, two (2) 25kV transformers, electrical distribution equipment, motor control centers, VFDs, process

control system, ESD control system, and balance of plant instrumentation.

This plant produces a residue gas product and a Y-Grade NGL product that is tied back into Train 3 through tie points located on the southeast corner of the train.

PRINCIPAL FEATURES

- Modular design, fabrication, and construction strategy optimized schedule and reduced risk
- Modularization approach supports future expansion
- Detailed scheduling and earned value tracking for engineering and procurement
- Strong procurement coordination with multiple equipment packagers
- Cost-effective solution for switch rack/local power distribution achieved by unique electrical design
- Automation and controls design integration involved working closely with a third-party programming consultant
- Site acceptance testing was coordinated with the owner and third-party programming consultant

FOR MORE INFORMATION:

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