

■ ENGINEERING ■ ARCHITECTURE ■ DESIGN-BUILD ■ GEOSPATIAL SOLUTIONS ■ SURVEYING

Merrick & Company was contracted to perform the detailed design, engineering, procurement, construction management, and startup support for a new rail car loading rack for Colorado Refining Company's Denver refinery. In order to provide product to a new market territory, a rail car loading facility was built to handle gasoline and diesel fuel loading of 70 rail cars per month with a two-sided, four-station rack. Due to product supply agreements, the project was completed under

a very aggressive schedule and budget by the use of some rebuilt equipment that would normally require long lead time and close management of construction contractors on a time and material basis to manage costs.

This \$850K project included the following:

- Design, specification, and procurement of the 95 ft structural steel rack
- Access ramps
- Load arms
- Product metering, control, and inventory
- Additive storage and blending
- Vapor recovery and liquid knockout
- Liquid product drains and storage
- Control system tie-in to existing pump controls and ESD circuitry
- Automatic fire suppression system

The project also required working with the railroad to obtain permits to install a new 650 linear foot spur off of the main line. The product was delivered from the existing tank farm through a network of more than 3000 linear feet of new piping.

This project was completed on time and within budget to support the new product supply.

