



Four (4) Mechanical Refrigeration Units — *Texas*

Project Overview

Each system had a processing capacity of 100 MMSCFD and included the following major components:

- (1) Compressor skid
- (1) Refrigeration condenser
- (1) Process chiller skid
- (1) Overhead gas compressor package
- (1) EG regeneration package
- (1) BTEX unit
- (1) Hot oil system

Major Equipment Specifications

Compressor Skid

- Compressor: Rotary screw, Frick NGCH400A
- Engine: Natural gas, 1,035 hp @ 1,400 rpm, Caterpillar G3512B
- Accessories: Lube oil separator, pre-lube pump, (2) lube oil filters, Fin-Fan cooler
- Configuration: Skid-mounted

Refrigeration Condenser & Frame

- Type: Fin-Fan
- Capacity: 9,529,953 BTU/hr
- Airflow: 171,108 ACFM
- Design: 3-pass x 6-row
- Motors: Electric, 50 hp @ 1,750 rpm, Frame 326T, Baldor

Process Chiller Skid

- Chiller: Shell – 350 psig @ 200°F, Tube – 675 psig @ 200°F
- Stabilizer Reboiler: Shell – 500 psig @ 500°F, Tube – 150 psig @ 500°F
- Stabilizer Tower: 36 in ID x 686 in S/S
- Oil Reclaimer: 350 psig @ 200°F, 12-3/4 in OD x 60 in S/S
- Low-temperature Separator: 675 psig @ 200°F, 60 in ID x 480 in S/S

EG Regeneration Package

- Capacity: 800,000 BTU/hr
- Components: EG reboiler, packed stripper column, lean/rich exchanger, flash drum
- Filtration: (2) Prefilters, carbon filter, (2) postfilters
- Pumps: (2) EG pumps

Overhead Gas Compressor Package

- Capacity: 4.2 MMSCFD
- Operating Conditions:
 - Suction: 382 psig @ 76°F
 - Discharge: 550 psig @ 150°F
- Components: Compressor (JGP-2, Single-stage), electric motor (150 hp @ 1,800 rpm), suction scrubber, suction & discharge pulsation bottles

Company Overview

Evers & Sons Inc. is a third-generation, family-owned energy services company providing services across Engineering, Facilities, Fabrication, Pipeline, Maintenance, and Decommissioning & Asset Abandonment. Together, we connect engineering expertise with proven field execution to help our customers plan smarter, build efficiently, and operate with confidence.

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Project Overview Continued

The original project scope included the development of four 50-MMSCFD MRU gas processing systems, each with the following balance of plant materials:

- Instrument air system with heatless dryer
- Flare system
- MCC (Motor Control Center)
- Storage Tanks:
 - (3) 400 BBL condensate tanks
 - (3) 60,000 gal NGL bullets
- (1) BTEX unit
- (1) VRU skid
- (1) EG skid
- (1) Fuel gas heater
- (1) Hot oil heater
- (2) Overhead residue compressors
- (1) Receiver/Economizer
- (5) CAT 3606 compressors
- (1) 50 MMSCFD MRU
- Sulfa treat system
- (2) Control room workstations with defined operating systems
- Interconnecting piping
- Civil, mechanical, and electrical construction

Midway through construction, the scope expanded due to the requirement to double gas processing capacity at each of the four sites to 100 MMSCFD.

Additional Work (Outside Original Contract):

- (1) 450 GPM amine plant
 - Included product coolers, reboiler, regeneration system, and absorber
- (7) Facility pads
 - Size: 900 ft × 900 ft each
 - Earthwork: Over 1,000,000 CYDs of combined cut and fill

Evers & Sons' scope included the procurement and installation of all civil work (earthwork and concrete), structural components (pipe racks, supports, clamps, walkways, and access platforms), piping, electrical and instrumentation (I&E), heat tracing, and insulation across all four locations.