



**PANORAMIC**  
STRATEGIC SOURCING & SUPPLY MANAGEMENT

### Project Summary

PANORAMIC provided complete sourcing of all material equipment required for the Crestwood Station project. Required material and equipment was specified on data sheets and submitted for bids by PANORAMIC. A bid tab was then created and submitted to Crestwood for final decision and purchase by the customer. QPSE performed engineering, design support for the installation of a greenfield midstream compressor station, Crestwood Station 8, located in North Dakota.

This project included five 5,500-hp reciprocating Ariel compressors/motors driven with interstage cooling, a 60,000-gallon slug catcher, suction and discharge filter coalescers, a Glycol dehydration unit with contactor tower and Btex unit, water and condensate storage tanks along with a vapor recovery unit, and a final discharge meter to measure the gas leaving the station. Methanol tanks were installed along with an injection pump to allow for extra protection of hydrates forming in the line after leaving the station. The North Dakota location and climate created some difficulties of this application due to ambient temperatures of -40°F to 100°F. The concern for hydrate formation was key in designing and handling liquid dropout in the gas stream due to the low end of the ambient temperatures. The low ambient temperatures presented extreme complications with the process conditions of the gas allowing hydrate formation to form at 35°F and was managed by installing heat trace and insulation on all piping and equipment.

# CRESTWOOD MIDSTREAM PARTNERS, LP STATION 8 COMPRESSOR STATION

#### LOCATION

*North Dakota*

#### AWARD DATE

*November 2017*

#### COMPLETION DATE

*November 2018*

#### SERVICE OFFERING

*Facility*

#### HIGHLIGHTS

*Five 5,500-hp reciprocating Ariel compressors*

*Extreme temperature conditions*

