



This contract provided engineering design, procurement, and construction management services for Evergreen Operating Corporation's Raton Basin Gas and Water Gathering Systems as well as for their Burro Canyon Compressor site. Prior to detailed design for the initial phase of the project, a feasibility study was prepared for complete development of Evergreen's leased acreage. The study encompassed preliminary line sizing including sensitivity studies of operating pressure and piping materials; listing of required equipment for compression, dehydration, and measurement; and cost estimates for the conceptual system. Full development of the acreage will require approximately 650 wells producing an estimated total of 200 MMscfd of natural gas.

The first phase of the system included nine wells producing just over 3 MMscfd and 2,000 BWPd. Both the gathering system and compressor site were designed to accommodate future growth as additional acreage is developed. Main trunklines were sized to handle projected gas volumes and expandable piping manifolds were designed for the compressor site.

The compressor site design included all civil, structural, piping, electrical, and instrumentation drawings and specifications for the installation of a 1,000 HP compressor, a glycol dehydrator, and two 75 KW generators. The instrumentation included equipment to monitor volume and pressure data from the remote well locations and to continuously monitor and control the combined discharge gas BTU value, Wobbe index, and moisture content to meet the specifications of the transmission company purchasing the gas. Procurement assistance was provided for all materials, equipment, and services for the project except for the main gas compressor, for which technical assistance was provided. Procurement efforts included solicitation and review of bids, issuance of purchase agreements, and expediting when required.

The project scope also included construction management of the project. The job was staffed by one construction engineer and a team of three welding and utility inspectors.