BCCK ENGINEERING, INC.

"Historically, processing Yates Gas to remove nitrogen has proven unsuccessful through use of various technologies. This is due to the relatively low volumes of available gas and presence of heavy end hydrocarbons. BCCK was able to utilize our patented Nitech™ technology to process the smaller volumes economically due to the simplicity of design and ability to integrate heavy end hydrocarbon extraction with the Nitech™ process."

PROJECT SPECIFICATIONS

Plant Location:	Seminole, Texas
Facility Size:	15 MMSCFD
Gas Source:	Naturally occurring low-BTU gas (Yates formation)
Plant Type:	Nitech™ NRU / NGL extraction
Inlet Gas Content:	N_2 20% - 30%
Project Type:	Sale

PROJECT DESCRIPTION

This Gaines County NRU is the second Yates Gas processing facility that utilizes BCCK's Nitech™ technology to successfully process commercially viable volumes of high nitrogen natural gas. The project included a 15 MMSCFD nitrogen rejection unit and engineering related to installation of NRU equipment and leased compression. The system included the following major equipment:

- Nitech™ nitrogen rejection unit with integrated NGL extraction
- Mole sieve dehydration
- Propane refrigeration system
- NGL stabilization

The plant features a small footprint and state-of-the-art automation that minimizes operator involvement and allows optimization and troubleshooting from BCCK's headquarters.

The successful startup and operation of the Gaines County Nitech™ NRU units represents a significant breakthrough for nitrogen rejection technology and its application to Yates gas. Prior to the development of the Nitech™ processes, removing nitrogen from Yates gas had proven to be a challenging engineering endeavor. Economical removal of nitrogen from area leases using the Nitech™ process has proven to be technically achievable as well as profitable.