**CO₂ Miscible Flood Demonstration Project Russell County, Kansas**

**Purpose of Demonstration:**
- Determine the technical and economic feasibility of CO₂ miscible flooding in the L-KC in central Kansas.
- Develop reservoir data for the L-KC to facilitate future commercial CO₂ floods.
- Gain an understanding of the operations and costs involved in implementing a CO₂ flood.

**PARTNERS:**
The project is an industry-government consortium with industry partners being Murfin Drilling Co., Inc., the operator, John O. Farmer, Inc. and White Eagle Exploration, Inc. (partners), Kinder-Morgan CO₂ Company, LP, EPCO Carbon Dioxide Products, Inc., U.S. Energy Partners, LLC, and Transpetco Engineering. Government partners are U.S. Department of Energy, University of Kansas (Kansas Geological Survey and Tertiary Oil Recovery Project), and the State of Kansas (Dept. of Commerce). Seed money was provided by the Kansas Technology Enterprise Corporation (KTEC).

**CO₂ from Ethanol Plant**
The initial plan for supplying CO₂ was to truck it 200 miles from Guymon, Oklahoma. The construction of a new ethanol plant in Russell provides a close source of supply for the demonstration project, and possibly for small commercial floods in the area. U.S. Energy Partners, LLC, owner of the ethanol plant, and EPCO Inc. joined the project as partners.

**Injection slated for Fall 2003**
Final reservoir simulation, installation of surface facilities and repressuring the reservoir will be the sequence of activities prior to CO₂ injection. It is estimated that it will take three to five years to inject the ~0.27 BCF of CO₂ (15.700 tons) to be injected and additional oil recovery is expected to be approximately ~20 MBO.