

**CO<sub>2</sub>-Rich Gas in a Pinnacle Reef Structure** – Acid gas (approximately 70% CO<sub>2</sub>, 30% hydrogen sulfide [H<sub>2</sub>S]) from a natural gas processing plant in northern Alberta, Canada, will be injected into an oil-producing zone in an underground pinnacle reef structure. Results will help to determine the best practices to support sequestration in these unique geologic structures as well as further the understanding of the effects of H<sub>2</sub>S on tertiary oil recovery and CO<sub>2</sub> sequestration.

**CO<sub>2</sub> in a deep oil reservoir** – CO<sub>2</sub> will be injected into an oil-bearing zone at great depth in the Beaver Lodge oil field in northwestern North Dakota. The activity will be used to determine the efficacy of CO<sub>2</sub> sequestration and the use of CO<sub>2</sub> to produce additional oil from other deep carbonate source rocks.

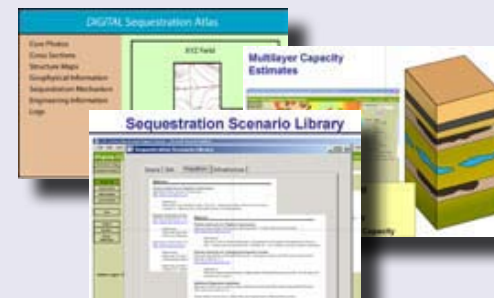
**CO<sub>2</sub> in a Deep Oil Reservoir** – CO<sub>2</sub> will be injected into an oil-bearing zone at great depth (approximately 10,000 feet) in the Beaver Lodge oil field in northwestern North Dakota. The activity will be used to determine the technical viability of CO<sub>2</sub> sequestration and the use of CO<sub>2</sub> to produce additional oil from other deep carbonate zones.

**Wind Energy for CO<sub>2</sub> Compression** – An investigation into the use of wind power as a means to offset a portion of the electrical demand of CO<sub>2</sub> compression, thus reducing the CO<sub>2</sub> emissions penalty for CO<sub>2</sub> capture and storage.

**CO<sub>2</sub> Management Plan** – The EERC is developing a CO<sub>2</sub> management plan for an Excelsior Energy power plant to be built in northeastern Minnesota.

**Out of the Air – Into the Soil** – A wetland in north-central South Dakota will be managed to demonstrate practices that will improve CO<sub>2</sub> uptake. The results will help to optimize CO<sub>2</sub> storage, monitoring and verification methods, and facilitate the monetization of terrestrial carbon offsets in the region and elsewhere.

Updates to the PCOR Partnership Decision Support System will include increased analytical capabilities and visual effects built over a refined regional characterization database.



Four 30-minute original television documentaries will be produced for broadcast in the PCOR Partnership region in partnership with Prairie Public Television. Program topics will include CO<sub>2</sub> markets, terrestrial sequestration, and geologic sequestration.

