## CO<sub>2</sub> Emissions Go to Work to Produce More Oil

## **The Bell Creek Story**

Denbury's Bell Creek oil field in Montana is the site of an innovative oil recovery/greenhouse gas storage project that benefits the economy and the environment:

- Carbon dioxide (CO<sub>3</sub>) (from natural underground processes) comes to the surface with raw natural gas.
- The Lost Cabin gas-processing plant captures this CO<sub>2</sub> instead of releasing it into the atmosphere (the current practice elsewhere).
- The CO<sub>3</sub> separated from the raw natural gas at Lost Cabin goes by pipeline to the Bell Creek oil field where it is injected into an oil reservoir to help produce more oil. This
- Eventually, the injected CO<sub>2</sub> is trapped in the underground injection zone.
- Monitoring helps ensure that the CO<sub>2</sub> remains securely stored.

This greener form of oil and natural gas production results in less CO<sub>2</sub> ending up in the atmosphere and extends the lifetime of an existing oil field.



**Denbury** 6

Reusing CO,

to a refinery.

Any CO<sub>2</sub> that comes up with the oil is separated, captured,

**Boosting Domestic Oil Production** 

not have been produced otherwise.

compressed, and reinjected into the oil zone. The oil is then sent

This domestic oil production reduces dependence on foreign oil. Using the captured geologic CO<sub>2</sub>, we are producing oil that could

underground.







This poster was produced by the Plains CO<sub>2</sub> Reduction (PCOR) Partnership, led by the University of North Dakota's Energy & Environmental Research Center, in cooperation with Denbury Onshore LLC. The PCOR Partnership represents a wide variety of public and private sector stakeholders located across nine states and four Canadian providences in the central interior of North America and is one of seven regional partnerships that make up the Regional Carbon Sequestration Partnership Program managed within the U.S. Department of Energy's Office of Fossil Energy by the National Energy Technology Laboratory (NETL). Funding was provided by NETL and the members of the PCOR Partnership. To learn more about the options to manage carbon emissions from energy use and the Bell Creek project, visit the PCOR Partnership Web site at www.undeerc.org/PCOR.

CO<sub>2</sub> EOR Zone