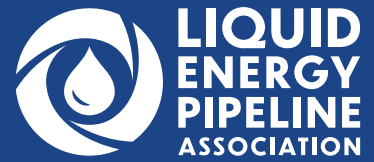


# CO<sub>2</sub> UNDERGROUND STORAGE SAFETY



Dozens of underground storage facilities across the United States have operated safely for decades storing natural gas, crude oil, propane and other important commodities. CO<sub>2</sub> storage sites will use the same layers of caprock deep underground to keep the CO<sub>2</sub> permanently locked in place.

CO<sub>2</sub> PIPELINE

CO<sub>2</sub> STORAGE MONITORING

PROTECTIVE WELL CASING

GROUNDWATER QUALITY MONITORING

GROUNDWATER

IMPERMEABLE CAPROCK

IMPERMEABLE CAPROCK

IMPERMEABLE CAPROCK

CO<sub>2</sub> STORAGE LOCATION

SALINE GEOLOGIC FORMATION

STORAGE DEPTH - 5,000 TO 10,000 FEET

## NATURAL GEOLOGY MAKES UNDERGROUND CO<sub>2</sub> STORAGE SAFE

- Impermeable layers of rock deep underground act as a lid to keep stored CO<sub>2</sub> in place
- The same impermeable layers of rock that have kept oil and gas locked for eons can safely store CO<sub>2</sub> underground
- Naturally occurring underground deposits of CO<sub>2</sub> have stayed locked deep underground for millions of years

## CO<sub>2</sub> UNDERGROUND STORAGE IS COVERED BY FEDERAL AND STATE REGULATIONS

- CO<sub>2</sub> underground storage sites are regulated by the U.S. Environmental Protection Agency and several states
- Federal requirements for CO<sub>2</sub> underground storage, operation and monitoring are designed to protect drinking water sources and the environment
- CO<sub>2</sub> underground storage sites must meet federal construction, operations and monitoring requirements before injection operations commence and continually thereafter
- Federal government regulations require extensive study by experts of the underground geology before a site is deemed safe for CO<sub>2</sub> storage

## UNDERGROUND STORAGE IS PROVEN SAFE

- The U.S. has a long history of safe underground storage operations, including four Strategic Petroleum Reserve sites in Texas and Louisiana
- Underground storage sites storing natural gas, propane, crude oil and carbon dioxide have operated safely for over 30 years
- Federal government regulations requiring continued monitoring and recordkeeping will demonstrate and document CO<sub>2</sub> underground storage sites are operating safely

