

## **General**

Luff Exploration Company respectfully requests permission to inject water long-term into the TRRRU D-5H, a medium-radius horizontal Red River "B" well. This well is within the Travers Ranch Red River Unit (TRRRU) in the Travers Ranch Field, Harding County, South Dakota. This secondary recovery unit was approved, based on technical and economic merit, by the South Dakota Board of Minerals and Environment on June 14, 2012 (Oil & Gas Case Number 4-2012). It became effective July 1, 2012.

This application is submitted pursuant to SDCL chapters and sections covering underground injection control (UIC).

Tab sections, reflecting South Dakota application requirements, organize this application.

The TRRRU D-5HH was drilled after the secondary recovery unit was formed. It was designed to be a water injection well, but has been producing for a period of time.

Converting this well to water injection service is the next logical step, and is consistent with the proposed Plan of Development presented at the June 2012 unitization hearing.

The requested maximum injection rate and maximum surface injection pressure values are consistent with approved values for the adjacent South Dakota – State Line Red River Unit.

Luff may request a higher surface injection pressure at a later date.

The requested duration of this application is 4,930,000 barrels of cumulative water injection. This is a conservative (high) estimate of cumulative injection for the life of the secondary recovery project.