

Luff Exploration Company



**Application To The South Dakota
Department of Environment
And Natural Resources**

For Long-Term Water Injection

**Cave Hills M-13
Clarkson Ranch Field
Harding County, South Dakota**

March 2018

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MINERALS & MINING PROGRAM

General

Luff Exploration Company respectfully requests permission to inject water long-term into the Cave Hills M-13. This well will be drilled in 2018 and completed vertically in the Dakota sandstone of the Dakota (Inyan Kara) formation.

An aquifer exemption will be required from the EPA. Based on several Dakota water samples taken from the Stearns M-21, a few miles to the West, Luff is confident that the water will exceed 3,000 TDS. After the well has been completed and cleaned up, water samples will be taken and analyzed.

This application is submitted pursuant to SDCL Chapter 45-9, Section 45-9-13.

Tab sections, reflecting South Dakota application requirements (outlined in 74:10:09:02) organize this application.

North Buffalo Red River Unit

