

Solution Mining Research Institute Fall 2008 Technical Conference
Austin, Texas, USA, 13-14 October 2008

BRINE MANAGEMENT OPTIMIZATION FOR LPG AND REFINED PRODUCTS STORAGE FACILITIES AT MONT BELVEIU, TEXAS

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Abstract

Mont Belvieu, Texas is home to the Barbers Hill salt dome which houses the largest underground LPG storage complex in the world. Much of the liquid hydrocarbon stored at Mont Belvieu is LPG and chemical feedstock. Recently, Louis Dreyfus Highbridge Energy Resources has begun offering storage services for refined motor fuels. Although motor fuels have been stored elsewhere, the LDH initiative was the first at Mont Belvieu.

The motor fuels storage market targeted by LDH Energy is one that requires very high injection and deliverability requirements. These high deliverability requirements have imposed the need to modify the LDH Energy brine management system and further to operate the wells at brine injection velocities at or nearly at the limit typically adopted by Industry. This paper describes some of the brine management modifications and systems.

Key Words: Cavern Operation, Cavern Operation, Domal Salt, Caverns for Liquid Hydrocarbon Storage, Storage Cavern

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