

## **Abstract**

This paper describes the purpose of cavern sump sealing at a natural gas storage plant. It describes the preliminary work that was done, the implementation of the sump sealing in the two salt dome caverns, the materials and technique used, and the forced drying process which was initiated to speed up the cavern drying process afterwards. It also describes the process problems which occurred in the downstream gas transmission pipeline system and the necessary modifications and extensions which were introduced to the gas storage plant.

**Keywords:** Caverns for gas storage, Sump sealing, Gas storage, Zechstein, Natural gas processing, Hydro carbon dew point, Water dew point, Liquid in transmission pipelines, Carbon filters.

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