

LPG Cavern Storage Principle, Monitoring and Maintenance

LPG地下庫的儲存原理、監測與維護

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Abstract

Presented the fundamental of underground LPG cavern with water sealing briefly and how to seal the cavern up by the pressure of underground water, the geological and hydrological condition of the selected LPG cavern construction, the composing and distribution of LPG cavern, the scheme of construction and the process of excavation, illustration of the process, the advantage of LPG cavern which compares with on-ground LPG storage, and how to monitor the geological and hydrological condition of underground LPG cavern under the normal operation condition and the maintenance of the cavern.

摘要

簡單介紹了LPG地下水封石洞儲庫的基本原理，怎樣利用地下水的壓力對洞庫進行密封，建庫地點的地質條件和水文地質條件；洞庫的組成和平面佈置；施工採用的方案及挖掘的過程；工藝流程說明；與地面的庫相比的優勢；在正常運行狀態下對地下庫的水文地質的監測以及洞庫的檢修和維護等。

Biography

Mr Cai holds a Bachelor degree from the Huadong Technology University and his working Experience is:

1982-1988 Juhua Group Company (synthetic ammonia plant and pharmaceutical plant)

Daily operation management, technological innovation, new product development

1988-1990 Zhejiang chemical plant

Propylene oxide and polyether project feasibility study, preliminary design

1990-1998 Zhejiang Pacific Chemical Co., Ltd.

Design delegate for propylene oxide and polyether project, project management, commissioning and daily operation management

1998-Aug, 2009 Ningbo Huadong BP LPG Co., Ltd.

Bidding evaluation for LPG cavern project contractor bid document, design and construct for LPG cavern project, make up the plan for commissioning and kick-off, make up operation procedure and be in charge of daily operation management, assist in zhuhai BP LPG cavern design and commissioning

Aug, 2009-now Ningbo Platinum LPG Co., Ltd.

LPG cavern operation and management