

Solution Mining Research Institute 2012 Technical Conference
Regina, Saskatchewan, Canada, April 22 – 25, 2012

Wellhead Replacement Methodology

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Abstract

Many advances have been made in the field of well design since the first solution-mined cavern was employed for hydrocarbon storage during the late 1940's; i.e. the development of standardized sizing, corrosion resistant materials, various monitoring programs, etc. Additionally, wells in need of rehabilitation to prolong their service life often require substantial modification to satisfy the current industry demands of safety, efficiency, and storage. For these reasons and others, substantial modification of the wellhead and adjacent components may be necessary for continued beneficial use of a well. Often the process of modifying these vital components is composed of many critical stages that should be thoughtfully planned and executed to ensure a successful well renovation.

This paper illustrates in detail the discrete steps of installing a bradenhead flange and extending the production casing near the surface on a storage well that was originally designed without a bradenhead flange.

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