

IMPROVED STABILITY THROUGH OPTIMIZED ROCK BLASTING

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ABSTRACT

This paper describes the excavation of an underground naphta storage facility at Stenungsund in Sweden.

The main purpose with this paper is to give an overall view of how the excavation was carried out and in what type of bedrock the storage was built. Emphasis has been done to highlight the importance of using cautious blasting to avoid blast damage in the remaining rock. Attempts has also been done in order to evaluate what the degree of Swedish cautious blasting has meant for the rock support costs during the construction period.