

DOWNLOAD GROUND RESPONSE TO LONGWALL MINING A CASE STUDY OF TWO ENTRY YIELD PILLAR EVOLUTION IN WEAK ROCK

ground response to longwall pdf

Evaluation of Support and Ground Response as Longwall Face Advances into and Widens Pre-Driven Recovery Room Thomas M. Barczak, Senior Research Engineer Stephen C. Tadolini, Chief, Rock Safety Engineering Branch NIOSH-Pittsburgh Research Laboratory

Evaluation of Support and Ground Response as Longwall Face

Evaluation of the Ground Response of a Pre-driven Longwall Recovery Room Supported by 1027 123. 24 days (corresponding to a distance of 130 m from the longwall face) before the longwall face entered the main recovery room. This allowed for proper curing of the

Evaluation of the Ground Response of a Pre-driven Longwall

GROUND CONTROL AND RISK Poor ground response and the associated business impact of longwall downtime is a major issue for the Australian underground coal industry. Geological features such as thick overlying sandstone channels, very weak immediate roof conditions, high stresses and highly cleated and friable coal seams are common.

Practical Considerations in Longwall Support Behaviour and

ground response to longwall pdf J-CRIB[®] Pumpable Crib J-CRIB[®] is a specialized pumpable cement and containment bag that replaces conventional timber cribs in longwall tailgates and bleeder headings.

Ground Response To Longwall Mining A Case Study Of Two

Ground response curves are developed for two typical longwalls operating in the Pittsburgh seam with weak and strong immediate roof. An additional model is presented in which the effect of weak overburden strata is simulated. The ground response is shown to be significantly affected by the strength of the immediate roof as well as the main roof.

Development of Ground Response Curves for Longwall

Ground response curves were developed for four loading conditions: (1) development, (2) side abutment, (3) front abutment near the longwall face, and (4) full extraction in by the face.

Evaluation of the Ground Response of a Pre-driven Longwall

Abstract This paper presents the ground response curve concept as a means to provide graphical representation of longwall support and strata interaction processes. The approach was developed to address the requirement for a practical longwall support evaluation and selection tool that can take account of support load influences such as changes in roof geology or cover depth.

Ground response curves for longwall support assessment

A cooperative study was conducted with Emerald Coal Resources, L.P., an affiliate of Foundation Coal Corporation, and the National Institute for Occupational Safety and Health (NIOSH) to evaluate the effectiveness of (partially) pre-driven longwall recovery rooms supported with pumpable roof supports.

Welcome to CDC stacks | Evaluation Of Support And Ground

contemporaneous surface subsidence that can be Technical terms used herein are defined in the glossary, p. 25. more accurately forecast than subsidence caused by room-and-pillar mining. The current state of knowledge of subsidence permits a more detailed discussion of longwall-induced subsidence than of the

other forms.

Subsidence from Underground Mining: Environmental Analysis

Fig. 1.1 Cutaway View of a Typical Longwall Mine In longwall mining, a panel of coal, typically around 150 to 300 metres wide, 1000 to 3500 metres long and 2 to 5 metres thick, is totally removed by longwall shearing machinery, which travels back and forth ... near surface rocks and subsidence of the ground above, as illustrated in Fig. 1.2.

Introduction to Longwall Mining and Subsidence ver2

The effects of the front abutment pressure on the ground response of the pre-driven main recovery room began to manifest when the longwall face was approximately 60 m away. Stress increases remained very gradual until the longwall face was approximately 20 m from the main recovery room.

Evaluation of the Ground Response of a Pre-driven Longwall

This paper examines the interplay between longwall support design/geometry features, operational controls and geological features on ground response.

(PDF) Practical Considerations in Longwall Support

The ground response curve can be used to represent the rock mass response to mining and its effect on support systems. The FLAC finite difference code was used to supplement field results by simulating a longwall tailgate and the associated ground response.

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