

عنوان مقاله:

OPTIMUM PILLARS' DESIGN IN ROOM & PILLAR METHOD FOR SEAM C₁ IN PARVADEH-IRAN TABAS COAL
MINE BY CMRR ۲۰۰۷, ALPS & ARBS

محل انتشار:

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خلاصه مقاله:

One of the basic parameter of mine design in Room and Pillar Method is accurate design of pillars' dimensions, so that having economized project, safety faces, mining operation and recovery pillar are depend on accurate design of pillars' dimensions. In Room and Pillar Method, a part of mine material reminds as a pillar, so the main goal of pillars' design is to design pillars with minimum dimensions that keep the faces safe and create stable rooms. The goal of this research is to calculate and design the optimum pillars' dimensions in Room and Pillar Method for seam C₁ in Parvadeh-Tabas coal mine. For this purpose, first the condition of Central Mine roof has been analyzed using Coal Mine Roof Rating (CMRR), the result of the program CMRR ۲۰۰۷ is CMRR = ۴۷ and the adjusted one is CMRR = ۴۰ which demonstrate the weak roof of the mine. The length and width of pillars are ۱۵m × ۱۵m and optimum excavation rate is ۴۳.۸% for seam C₁ are designed by Software ARMPS. Because of the ۴% excavation rate and ۱۵.۲۵ m^۲ pillars' area decrease, with the same bolt plan (ARBS) as well as the previous design, this design is economized.

کلمات کلیدی:

Parvadeh, Room & Pillar, CMRR, ALPS, ARBS

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