عنوان مقاله:

OPTIMUM PILLARS DEDIGN IN ROOM& PILLAR METHOD FOR SEAM C١ IN PARVADEHIRANTABAS COAL MINE BYCMRR ٢٠٠٧, ALPS & ALPS

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نویسندگان:

M Ghadimi Yamcheloo - *Tabas Coal Mine Project, Iran*,

J Gholamnejad - *Assistance professor, Yazd University, Yazd, Iran*,

خلاصه مقاله:

One of the basic parameter of mine design in Room and Pillar Method is accuratedesign of pillars dimensions, so that having economized project, safety faces,mining operation and recovery pillar are depend on accurate design of pillarsdimensions. 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 thatkeep the faces safe and create stable rooms. The goal of this research is to calculateand design the optimum pillars dimensions in Room and Pillar Method for seam C١in Parvadeh -Tabas coal mine. For this purpose, first the condition of Central Mineroof has been analyzed using Coal Mine Roof Rating (CMRR), the result of theprogram CMRR ٢٠٠٧ is CMRR= ۴٧ and the adjusted one is CMRR= ۴٠ whichdemonstrate the weak roof of the mine. The length and width of pillars are١۵m ١۵m and optimum excavation rate is ۴٣.٨% for seam C١ are designed bySoftware ARMPS. Because of the ۴% excavation rate and ١۵.٢۵ m٢ pillars areadecrease, with the same bolt plan (ARBS) as well as the previous design, this designis economized.

کلمات کلیدی:

Parvadeh , Room & Pillar, CMRR, ALPS, ARBS

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