

**RENCANA PRODUKSI BIJIH EMAS  
BLOK CKN\_1035\_XC08 DAN CKN\_1040\_XC08  
DI PT CIBALIUNG SUMBERDAYA DESA MANGKUALAM – PADASUKA,  
KECAMATAN CIMANGGU, KABUPATEN PANDEGLANG  
PROVINSI BANTEN**

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**SARI**

PT Cibaliung Sumberdaya adalah salah satu perusahaan tambang yang bergerak pada bidang pertambangan emas dengan menggunakan metoda tambang bawah tanah. Tambang bawah tanah PT Cibaliung Sumberdaya menggunakan sistem penambangan *cut and fill*. Penambangan bawah tanah PT Cibaliung Sumberdaya pada blok cikoneng telah selesai pada lubang bukaan XC\_07, untuk melanjutkan produksi pada blok cikoneng maka dilanjutkan pada XC\_08. Sehingga penelitian difokuskan pada perencanaan penambangan bijih blok CKN\_XC08 level 1035 dan 1040.

Berdasarkan analisis stabilitas lubang bukaan XC\_08 level 1035 dan level 1040 dinyatakan dalam keadaan aman dan stabil. Hal ini dikarenakan lubang bukaan level 1035 memiliki nilai perpindahan batuan berkisar antara 18 mm – 22,5 mm dan faktor keamanan sebesar 1,60 (sebelum penguatan *rockbolt*). Setelah penguatan perpindahan batuan berkisar antara 1,6 mm – 2,4 mm dan faktor keamanan sebesar 1,80. Lubang bukaan level 1040 sebelum penguatan perpindahan batuan sebesar 17,5 mm – 35 mm dan faktor keamanan sebesar 2,00, sedangkan setelah penguatan perpindahan batuan sebesar 10 mm – 12,5 mm dan faktor keamanan sebesar 2,45.

Rencana produksi pada lubang bukaan XC\_08 dibagi menjadi dua yaitu level 1035 dan 1040. Rencana produksi lubang bukaan level 1035 sebesar 4.132,8 ton/bulan, sedangkan lubang bukaan level 1040 sebesar 2.637 ton/bulan.

Kemajuan tambang pada lubang bukaan CKN\_1035\_XC08 sebesar 14,3 m/bulan, sedangkan CKN\_1040\_XC08 sebesar 9,4 m/bulan. Kemajuan tambang berfungsi untuk menggambarkan kemajuan setiap bulan dengan rencana produksi yang ditargetkan.

*Kata kunci : Stabilitas Lubang Bukaan, Rencana Produksi dan Kemajuan Tambang*

# **The Production Plan of Gold Ore Block Id CKN\_1035\_XC08 and CKN\_1040\_XC08 at Cibaliung Sumberdaya Inc., on Mangkualam Village - Padasuka, Cimanggu Sub-district, Pandeglang Regency, Banten Province**

## **Abstract**

Cibaliung Sumberdaya Inc. is one of mining companies that is engaged in the field of gold mining using underground mining methods. The underground mining company of Cibaliung Sumberdaya Inc. uses *cut* and *fill* mining system. As the underground mining of Cibaliung Sumberdaya Inc. at Cikoneng area has been completed at aperture opening XC\_07, the new following mining production at Cikoneng area is continued at the aperture opening XC\_08. Due to that reason, this research is then focused on the planning of ore mining block CKN\_XC08 level 1035 and 1040.

Based on the analysis of this research, the aperture opening stability XC\_08 at 1035 and 1040 level is in a safe and stable condition. This is because the aperture opening at 1035 level owns a rock displacement ranging from 18 mm - 22.5 mm and a safety factor of 1.60 (before the reinforcement rockbolt). After the reinforcement process, the rock displacement ranges from 1.6 mm - 2.4 mm and the safety factor is up to 1.80. Before the reinforcement process, the aperture opening at 1040 level shows the rock displacement starting from 17.5 mm - 35 mm and the safety factor is at 2.00. Meanwhile after the reinforcement process, it changes to 10 mm - 12.5 mm and the safety factor is at 2.45.

The production plan on the aperture opening XC\_08 is to divide it into two levels. They include 1035 and 1040 levels. The production plan on the aperture opening at 1035 level is that it can contain 4132.8 tons of gold ore/month while the aperture opening at 1040 level can load 2,637 tons of gold ore/month.

This research results show that the mine progress on the aperture opening of gold ore block with id CKN\_1035XC08 is as wide as 14.3 m/month while the aperture opening of gold ore block with id CKN\_1040\_XC08 reaches 9.4 m/month. This mine progress serves to illustrate the monthly progress of the aperture opening stability and the targeted mine production plans.

**Keywords:** The Aperture Opening Stability, Mine Production Plans and Its Progress