

## **The practical and personnel challenges in deep mining: 1933.**

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An account is given of the features of a Central Rand mine, in respect of the scale of production, depth of working, size of intake shafts, layout of development, and method of working.

Reference is made to the handling of rock in shafts, levels and stopes, and of miners and material in shafts.

Arrangements for pumping, treatment of mine water, and precautions against fire is explained.

Sanitation, health, diseases, heat stroke, and accidents are dealt with.

The value relating to a dietetic feeding of labourers is considered.

The effects of rock pressure, as regards shafts, levels and stopes, support of hanging wall in stopes, and mining of remnants is discussed.

The ventilation is described.

Position of the fan, prevention and detection of leakage, ventilation of engine chambers, and volume of air obtained, is outlined.

The rise in wet bulb temperature from surface to workings is illustrated.

Reference is made to the ventilation of stopes, showing the heating effect of oxidation.

Ventilation of development ends, and return air ways is described.

Reference is made to costs.