

ENGINEERING GEOLOGY

Limited engineering geological studies continue to be made but have been limited due to lack of manpower.

A research team from C.S.I.R.O. used the engineering parameters recorded on all the drill logs to obtain overall estimates for rock unit strengths. They found that the data was inconclusive as results indicated a common strength for all rock units which is clearly at odds with observational experience. Since then engineering logging has been discontinued.

Pillar photography has been continued but photographs are not being printed. All relevant information is stored and properly labelled for future use.

A prototype model of the Upper Central stope was made using perspex at a scale of 1:250. Practical difficulties of representing geological data in three dimensions, together with doubts in the value of the exercise and lack of manpower led to the project being shelved.

Limited studies (Memorandum 710/80) of joint patterns in the Lower Wedge have been made and were successful in predicting rock falls. This work identified three joint sets:

- a. Small joints dipping east at  $40 - 70^{\circ}$  averaging 23 metres apart,
- b. A less numerous set dipping to the north west at  $50 - 60^{\circ}$ , averaging 2.9 metres apart.
- c. The least common, but most persistent set (up to 20 metres) dipping at  $60^{\circ}$  to the south west. They have an average spacing of 90 metres.

Further work is required in this area.