

GEOLOGY (SUMMARY)

1. Stratigraphy (refer to Drg. 1.359, 1974/4)

The oldest rocks in the prospect area are the graphitic black slate and the micaceous grey quartzite of the Oonah formation (Upper Proterozoic). They are exposed along the South Comet track, 400 feet northeast of Kosminsky Hill 10 and K.H. 11 diamond drill sites, and near South Comet and S.C. 15 sites. In the first case they are at fault contact with the pink and mauve argillites of the Crimson Creek formation (Lower Cambrian) which are next in the stratigraphic sequence.

In the second case the contact is conformable. South of the South Comet fault, the greywacke-shale-conglomerate sequence of the Dundas Group (Cambrian) has been folded into a broad synclinerium, the axis of which strikes northeast. The basal member of the formation, the Red Lead conglomerate, is exposed along the road at about 100 feet west of the Adit No. 1 portal. The following members are exposed along the road which climbs up the South Comet hill.

On the 1 inch = 100 feet geologic maps of the South Comet and East South Comet grids, the stratigraphic boundaries of each member of the succession have been tentatively outlined. However, owing to the lithologic similarity of different stratigraphic units and to the lack of easily recognisable key beds above the Razorback formation, any subdivision which is not supported by palaeontological evidence is open to question.