

AUSTRALIAN ANGLO AMERICAN LIMITEDCOMSTAFF PROPRIETARY LIMITEDPRELIMINARY ASSESSMENT OF THE HATFIELD, QUE RIVER
AND COLDSTREAM DRAINAGE BASINS1. DEFINITION OF AREA

This assessment covers map sheets 375 390 A, B, C and D, 375 395 A, B, C and D, 380 390 A, B, C and D, 380 395 A, B, C and D and 380 385 A and B.

2. GEOLOGY

The area is east of the Ramsay area and is influenced by the Just in Time Anticline to the west.

From west to east, the rocks are apparently getting younger. Along the western boundary of the area the older shales and quartzites, equated with the Bischoff Series by Rugless, are overlain by a thick sequence of predominantly greywackes. The dolomites close to the contact may be time equivalents of the dolomites at Renison in the Success Creek Phase. The overlying greywackes can be equated with the Crimson Creek Group.

East of the greywackes, the character of the rocks changes to a sequence consisting of shales, siltstones, mudstones and interbedded pyroclastics. Previously geologists have included these rocks within the Mount Read Volcanics, but it is postulated that they are equivalent to the Rosebery (Dundas) Group. These rocks occupy the trough of the Que Syncline.

East of these rocks the porphyries, with a few interbedded shales containing Middle Cambrian fossils, have been mapped.

Tertiary gravels and basalt occur above the 550m elevation in the northern part of the area.

3. GEOPHYSICS

The area was covered by an Input survey in 1975, but only one anomaly, CAH, was considered worth ground follow up work. Geotrex consider this anomaly to be cultural as it is on the Emu Bay Railway.