

7.

Has there been a tremendous facies change in the two areas and if so would this eliminate the likelihood of the dolomite horizon continuing into the Mt. Bischoff extended area? This seems doubtful although not discarded as a possibility. It is more likely that the folding and faulting within the Mt. Bischoff area has confused the stratigraphic interpretation and whilst obviously some of the quartzite units have become shales due to facies variation, the interpretation that the dolomite lies above the black shales of Group A is valid, and its absence could only be proved if a drill hole penetrated through the quartzite and white clay sequence and intersected black shales at a non faulted contact.

At this stage reference is made to plan 67, the section showing the interpretation for drill hole B3. The deepening of this drill hole would enable a test to be made of the sequence provided that the black shales were intersected above the projected fault F1.

It is proposed that additional mapping be carried out to try and equate unit 9 and unit 3 of Hopwood & Anderson's stratigraphic sequence. Both of these units have distinct bands containing sedimentary breccia horizon, and if these can be equated then it is obvious that Groups A and B are probably equivalent and the exact position of the dolomite (units) must be re-established.

##### 5. STRUCTURE

In the present programme of mapping and interpretation (see figs. 65 and 66) a major W.N.W. striking fault (F1) dipping to the N.N.E. has been established. The fault has been observed on the ground in a number of places and has been **extrapolated** in the sections from the geophysical results. This fault has a large shove component with the north block moving west approximately 1,000 ft. This movement is established by inspection of the large anticline shown in the black shales south of the fault (500 S. and 3,500W) and the anticline in the quartzites around the No. 6 portal position (1,000N 3,300W).  
 (1,000N 3,300W)  
 Similarly the major syncline north of the fault at 500N and 2,200W) has been moved in respect to the faulted syncline