RB 49/157

DEPARTMENT OF MINES

RADIUM HILL PROJECT

SHORT REPORT ON BRAY'S BERYL PROSPECT - OLARY PROVINCE.

By L.S. Denholm - Geologist.

C O N T E N T S.

SHORT REPORT ON BRAY'S BERYL PROSPECT
OLARY PROVINCE.

1. INTRODUCTION:

This prospect, which is owned by Mr. Bray of Olary, was visited with Mr. Bray on 22nd September, 1959.

The purpose of the visit was a request from Mr. Bray for geological advice to help him determine which direction to begin working the deposit.

The prospect is situated approximately 9 miles north-west of Olary and is readily accessible from the Olary-Bimbowrie road (see locality plan).

2. GEOLOGY:

The sketch plan (attached) shows the salient geological features of the prospect.

A north-easterly trending pegmatite carrying beryl crystals lies in granite which on a regional scale is described as migmatite. The pegmatite consists of a wide (50'-55') central portion with two tapering arms running east and west respectively. The total length is approximately 200'.

A small trench (the deepest point is 12') has been dug in the south-west corner of the wide zone. This has exposed a concentrated cluster of small (i.e. 3"-4" in diameter) beryl crystals approximately 6' below the surface. The crystals are generally oriented so that the length is normal to the southern boundary of the pegmatite and dip north at about 30°. The upper 6' of the trench is mainly weathered pegmatite with patches of pencil size beryl crystals.

Beryl crystals were not observed anywhere else in the pegmatite but an apatite outcrop was seen about 10' west of the trench (see sketch plan). No definite pitch was observed on the pegmatite.

The structure as sketched suggests:

(1) a steeply pitching (or vertical) pegmatite, the arms being minor features to the main body.

or (2) pegmatitic material filling a flexure.

3. DIRECTION OF WORKING:

Mr. Bray had already decided on the direction as shown in the accompanying sketch. This direction will expose a good section of the wide zone and should show whether the deposit warrants further working.

4. CONCLUSION:

The beryl crystals seen in this prospect are relatively small and located in a concentrated cluster in a small portion of the total pegmatite body.

4. CONCLUSION (Continued)

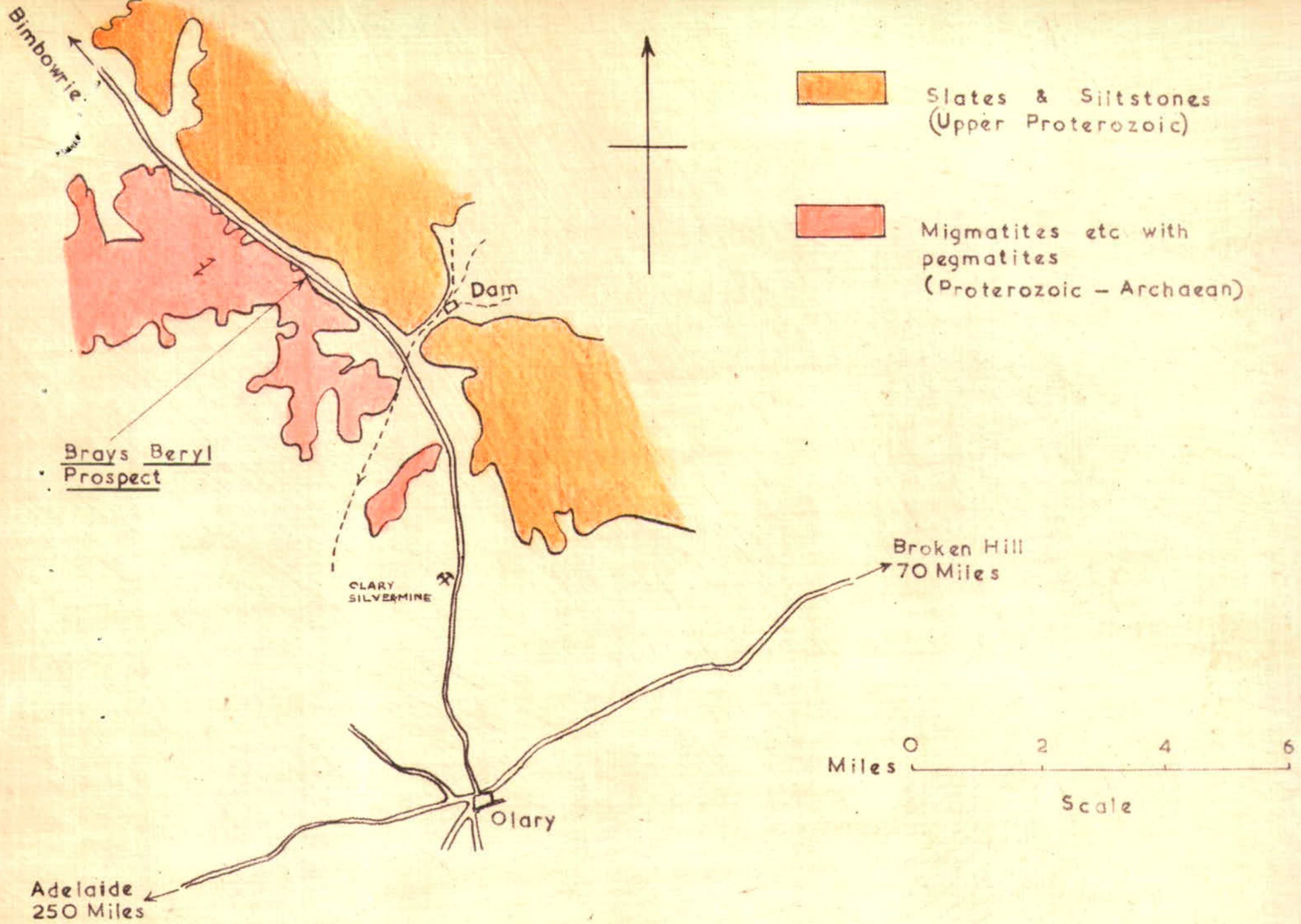
On completion of the proposed trench across the wide zone of the pegmatite, a better idea of whether the deposit is workable or not should be obtained.

Mr. Bray was advised to send a bag of beryl to the Department of Mines for assay purposes.

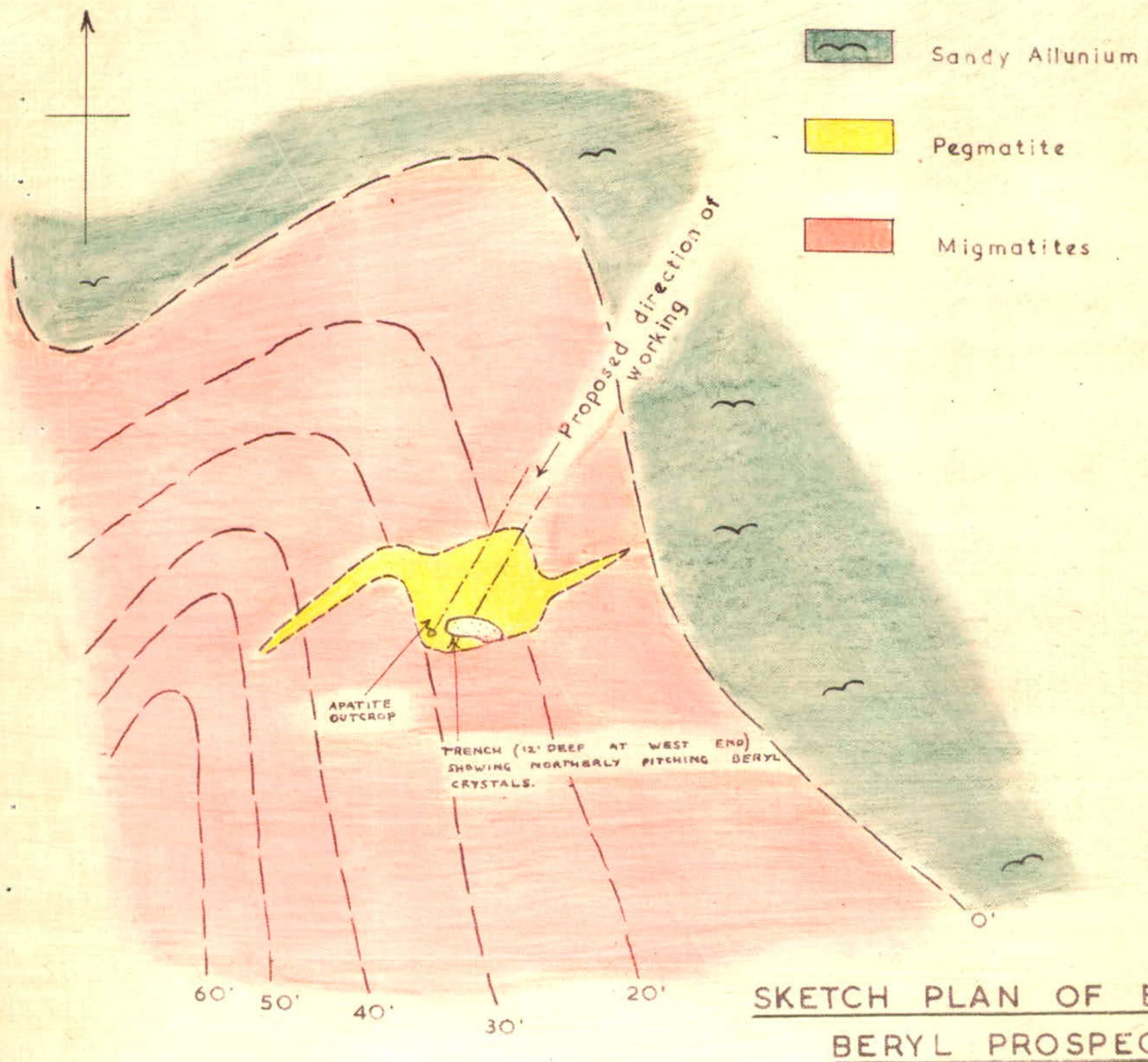
L.S. Denholm

L. S. Denholm,
Geologist.

24th September, 1959.



LOCALITY PLAN



SKETCH PLAN OF BRAYS BERYL PROSPECT

APPROXIMATE SCALE 100' TO 1"