481001

THIRKELL HILL – HAZEL HILL AREA

LYELL E.Z. EXPLORATIONS

57 – 153

AMG REFERENCE POINTS ADDED

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20th March, 7

Report on Examination of Thirkell Hill - Hazel Hill Area

Dates of Examination:	15th February to 17th February and 3rd March to 5th March, 1957.
Party Leader:	D. Sampey
Personnel Employed:	P. Goscombe (student) and J. White (bushman) who was replaced during second period with R. Martin (bushman).
Man Days in the Field:	18
Location of Camp:	By helicopter.

General Topography of the Area:

The valley to the west of D'Aguilar Range is a broad flat-bottomed valley bounded on the west by a fault scarp. The floor and sides of the valley are covered with low heath-like vegetation seldom more than two feet high. This valley continues southwards till just south of Thirkell Hill where both the scarp on the west and the ridge on the east die out. To the east of the D'Aguilar - Thirkell Hill Ridge there are rolling downs covered with button grass and occasional copses of eucalypts, the timber always being thicker on the eastern slopes of the ridges and hills. The eastern edge of these downs is the Twins ridge and the broken country to the south of this ridge. To the south east of Thirkell Hill there is an area of open button grass downs which extend to Hazel Hill and the Wanderer River.

(3)

Geological Investigations on Reports:

The general features of the geology can be seen on the attached sketch map.

The Dundas rocks to the ~~west~~ east of Mt. Lee are sheared volcanics, tuffs and acid lavas with some greywacke conglomerate along the western margin.

The shear planes have consistant strike of 340 - 350°, dipping steeply to the west. Over the whole of the Dundas area there are many quartz veins but in no case was there an outcrop from which the trend of these veins could be obtained.

At locality A on sketch map, a small area (200 sq.yds.) of conglomerate, lithologically the same as Owen, crops out dipping 40° to the west. Immediately below this, Pre-Cambrian quartzite dips 70° to the west. The geological boundaries will be known much more accurately when good quality aerial photographs become available.

Conclusions:

The Dundas rocks lie in the centre of the western anticline of Scott (Jan. 1956).

This area of Dundas rocks is very interesting as they lie just to the west of the southern continuation of the Lyell Shear.

D. Sampey

D. Sampey.

AMG REFERENCE POINTS ADDED

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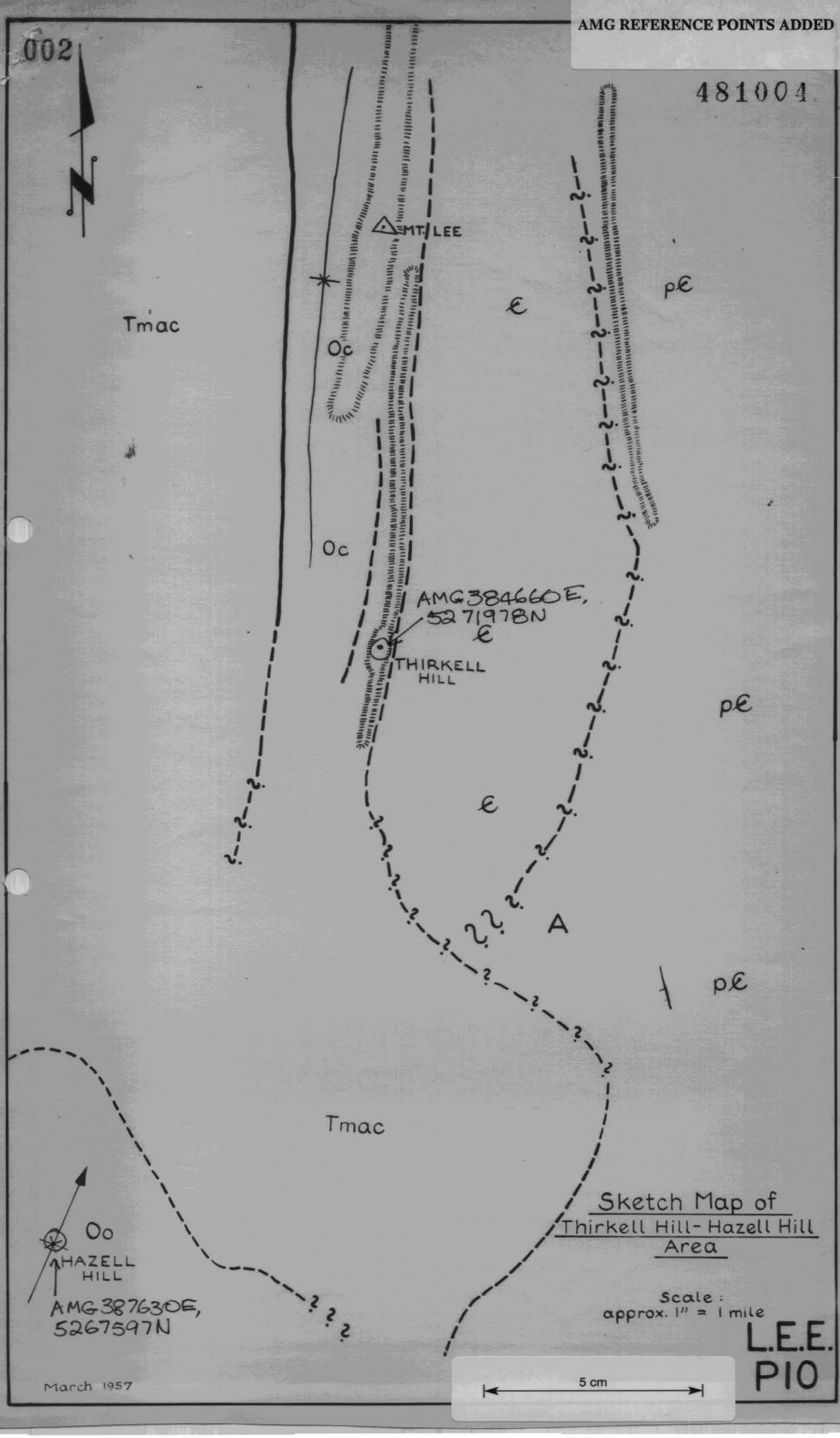

Sketch Map of
Thirkell Hill - Hazell Hill
Area

Scale :
approx. 1" = 1 mile

L.E.E.
P10

March 1957