DEPARTMENT OF MINES

Progress Report

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PROSPECTING FOR ASSESTOS AND PROSPERTY ROCK

IN THE EAPTHDA-BOOKSTOTONE AREA

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MINERAL RESOURCES SECTION

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THE KAPUNDA-ROBERTOWN AREA

1. ABSTRACT

Prospecting for asbestes and phosphate rock on the Kapunda sheet has been completed, and work begun on the Floricton sheet. Although 42 possible phosphate commences have been nampled, no occasive deposit has been found. Small deposits of tremolite have been found in the altered upper part of the Kapunda marble north-cast of Kapunda.

2. INTRODUCTION

of the State's phosphate rock, while in the nearby Robertstown region are many small asbestos deposits. At the conclusion of his report (1957, Mining Review 103, pp. 58-73) on the asbestos of the Robertstown and Truro districts, D. King recommended that systematic prospecting for phosphate rock and asbestos be carried out Prospecting for the two minerals can be carried out simultaneously since they are both associated with limestone.

Since October 13, 1958, Departmental prospector

T. Antmanis has been searching for these two minerals on the
Capunda and Florieton military sheets. This report briefly
summarizes his activities.

3. WORKING METHODS

The prospector was initially shown some of the known phosphate and asbestos deposits. Phosphate rock is difficult to recognize, hence specimens and soil samples are collected from all ferruginous and manganiferous areas within limestone. Buch of the ground is covered in a short Land Rover. A geological map or serial photographs (with limestone areas marked) serve as a base map.

Periodically the prospector shows a geologist the areas which might merit more detailed examination.

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on the Kapunda one-mile geological sheet were excuined. Small occurrences of travalite, not previously recorded, were found mear old copper workings on sections 1510, 1511 and 1514, Hd. Kapunda. The travalite is mostly brittle and has a decumnate texture. The length of fibres is about one inch. The outcrop may be related to the faulting at the top of the Kapunda marble. Fotrologic reports indicate that the travalite is associated with dolomits and compolite-bearing rocks. Thirty possible phosphatic areas on the Kapunda sheet were sampled but found to carry no or very little phosphate.

On November 8, prospecting was started on the Floricton sheet, using acrial photographs. This sheet includes many of the blue asbestos deposits north of Robertstown. He new occurrences of asbestos have yet been found. Twelve possible phosphate occurrences were sampled but analytical results do not indicate any economic concentrations of phosphate.

It will probably take a further month to complete the coverage of the Floriston sheet.

5. CONCLUSIONS

Although results have so far been disappointing, it is recommended that prospecting of the Floriston sheet be completed.

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