

Department of Mines  
South Australia

Report on

TALC & ASBESTOS DEPOSITS, P.L.19 HD. ADAMS, CO. HANSON.

(J.D.Taylor)

by

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GEOLOGIST

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Plan ref.

<u>No.</u>	<u>Title</u>	<u>Scale</u>
S1390	Sketch Plan. Talc & Asbestos Occurrence P.L.19, Hd. Adams.	40 ft. to 1"

20th December, 1956.

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MICROFILMED

TALC AND ASBESTOS DEPOSITS, P.L.19, HD. ADAMS

CO. HANSON

(J.D.Taylor)

ABSTRACT

Talc and crocidolite asbestos deposits associated with dolomitic limestones and quartzites are described. The talc deposit is too small and adulterated to be of value but test pitting of the asbestos deposit is recommended.

1. INTRODUCTION

In July 1956, Mr. J. D. Taylor, 2 Ston Street, Reade Park, S.A. requested an inspection of a talc deposit stated to be on Section 17, Hd. Adams, about 20 miles east of Hawker. An inspection was made by the writer with Mr. Taylor on 3rd November, 1956.

Mr. Taylor also mentioned occurrences of asbestos and barytes in the same vicinity. The former was inspected but Mr. Taylor had insufficient time to show the writer the barytes occurrence.

2. LOCATION AND ACCESS

The occurrences are on a pastoral property known as Shaggy Ridge, about 25 miles north-east of Hawker on the Philippa Road. After passing the ruined Warcovie H.S. (left) two gates are reached at 24.4 miles from Hawker P.O. That on the right is labelled Shaggy Ridge and the house is  $\frac{1}{4}$  m. south over a rise. The talc and asbestos occurrences are in a left bank tributary of the Basin Water Creek at a point about 4 miles further south, reached by a rough verywinding track over hilly country well wooded with native pine. Guidance from the Crossman brothers who live at the house is desirable. The occurrences are about  $\frac{1}{2}$  m. north-west of the Iron King magnetite deposit.

No detailed map of the district appears to exist, nor any R.A.A.F. air photograph. The occurrences are in the north-eastern part of Hd. Adams on Pastoral Lease 19. A sketch plan of the vicinity of the mineral occurrences, made from a compass

and tape survey, is attached (plan 51390, scale 40" to 1")

### 3. GEOLOGY

Shales, slates and quartzites form the country rock, dipping very steeply or vertically and striking generally east-west. The Basin Water Creek hereabouts has a mature course and exposures are few and confined to creek beds.

The talc deposit outcrops in the tributary creek immediately north of a fairly prominent outcrop of buff fine grained dolomitic limestone locally slightly stained with manganese. The limestone is exposed over a stretch of about 65 feet and strikes  $290^{\circ}$  and dips at  $85^{\circ}$  to the south. The (apparently) underlying talc is poorly exposed and apparently outcrops for a stretch of about 25 feet. As seen in the creek bank it is of good quality but contains lenses of brown silty clay. Below it, outcropping to the north, is a thick series of shales which weather to a soft yellow crumbly rock and are poorly exposed.

Above the limestone there are no exposures for a stretch of about 140 feet and then at the confluence of three creeks gritty quartzitic sandstones appear. These have a similar westerly strike but dip much less steeply. Several rolled boulders of tillite were notes in the creek bed.

The asbestos occurs in the area immediately north of the quartzitic sandstone outcrop. Near an old shaft are dumps coated with crocidolite. No crocidolite is apparent at the surface but a small shallow test pit showed short-fibre crocidolite in off-white crumbly dolomitic soft limestone.

This asbestos deposit may repay further investigation and the writer advised Mr. Taylor to sink a few test pits in the vicinity, which could be inspected later.

### 4. CONCLUSION

The talc on P.L.19, Hd. Adams approx. 4 miles south of Shaggy Ridge H.S, although of good quality, is too intermixed with clay and is too small to be of value. A nearby crocidolite

asbestos deposit may repay investigation and test pitting is desirable.

*ARC Crawford*

(A. A. Crawford)

GEOLOGIST

ARC:JAH.  
20.12.56.

ENGINEERING GEOLOGY & MINERAL RESOURCES SECTION



*Yellow deeply weathered shales*

*TALC with lenses of silty clay*

*85° Buff Limestone*

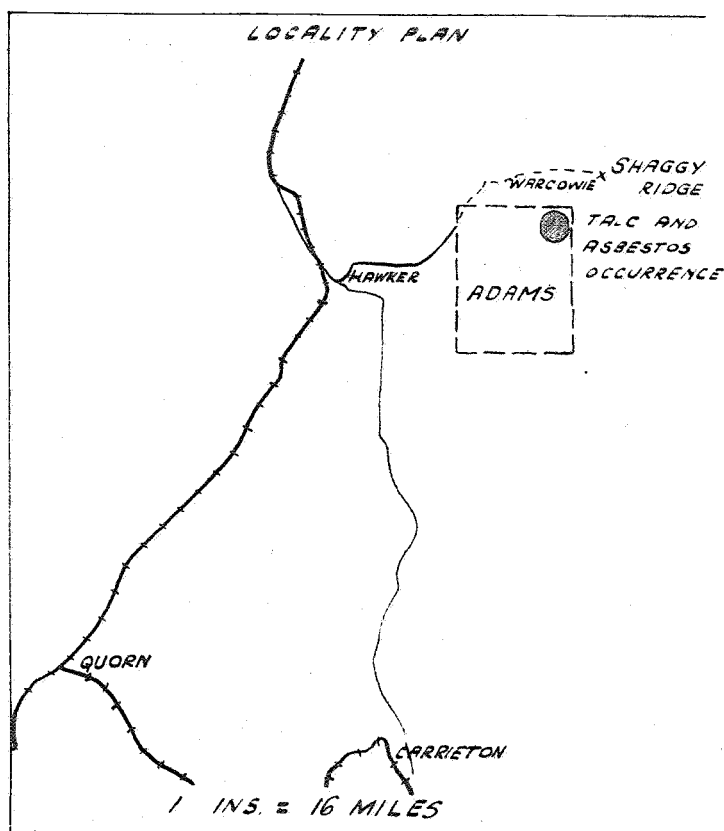
*CREEK*

*No exposures*

*Craciolite  
Asbestos Occurrence*

*Quartzitic sandstone  
with some rolled  
tillite boulders in  
Creek Bed*

*30°*



*To accompany report by A.R. Crawford.*

S.A. DEPARTMENT OF MINES

A.W.  
R.R.

*TALC AND ASBESTOS  
OCCURRENCE  
P.L. 19 HD. ADAMS  
SKETCH PLAN*

*40' TO 1"  
S 1390  
FC 5  
Date 21-12-56*

View south along creek showing  
talc on left.

