

Report on

PINK MARBLE DEPOSIT

SEC. 422, HD. MOOROOO, CO. LIGHT

(D. TWEEDIE)

by

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Geologist

MINERAL RESOURCES SECTION

GEOLOGICAL SURVEY

MINING REVIEW 113

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<u>Map No.</u>	<u>Title</u>	<u>Scale</u>
8.2664	Pink Marble Deposit Sec. 422, Hd. Mooroo, Co. Adelaide. (D. Tweedie)	20 chains = 1 inch

Rept. Bk. 51/143

G.S. 1883

D.M. 718/59

14th December, 1960

DEPARTMENT OF MINES  
SOUTH AUSTRALIA

Report on

PINK MARBLE DEPOSIT

SEC. 422, HD. MOOROOOROO, CO. LIGHT

(D. TWEEDIE)

1. ABSTRACT

An inspection of the above deposit has revealed that the present pit is located in the keel of a synclinal fold in pink marble of Cambrian age. Because of strong jointing and weathering along the joint planes, blocks of suitable size have not been obtained to date. The operators have been advised to advance the pit northerly and north westerly into the hill and along a flank of the synclinal structure.

2. INTRODUCTION

In March 1959 Mr. Tweedie of "Gawler Park" who owns Sec. 422, Hd. Moorooroo, requested a geologist to examine an occurrence of pink marble in the above section, which is located approximately two miles east of Angaston.

Dr. B. G. Forbes (Geologist) examined this deposit on May 6th and subsequently issued a report and geological plan. (Rept. Bk. 48/121, G.S. 1345, D.M. 718/59)(unpublished). Following this report, quarrying commenced on the pink marble which is being used as monumental stone.

On 17th October 1960 Mr. R.J. Tillett requested geological advice to help locate larger blocks of marble of the order of 3 ft. x 6 ft. x 8 ft. which is better suited for sawing. On 25th October, the writer visited the area and gave verbal advice. This report outlines the geology and advice given.

3. GEOLOGY

The general structure of the area is outlined on the map No. 82664 accompanying this report. Briefly the sediments

include various coloured marbles, overlain and underlain by impure tremolite marbles and calc silicate rocks equated with the Archaeocyatha limestone of Cambrian age.

The marble of interest is a massive pink fairly coarsely crystalline rock with impurities of pyrite, black oxides of iron and biotite.

The area examined is in the keel of a synclinal fold which may be a subsidiary feature on a much larger synclinal structure. The rock is strongly jointed; spacings between the joints varying from a few inches up to a foot or more. Weathering has produced fairly deep though narrow solution cavities filled with red plastic clay. It is not known how deep this weathering extends but the depth may be considerable.

A brief inspection of the area indicated that the prospects of locating large blocks are poor. It is recommended that the operators extend the pit northerly and north westerly into the hill with the hope of obtaining large blocks outside the fractured area and away from immediate surface weathering effects.


#### 4. CONCLUSIONS

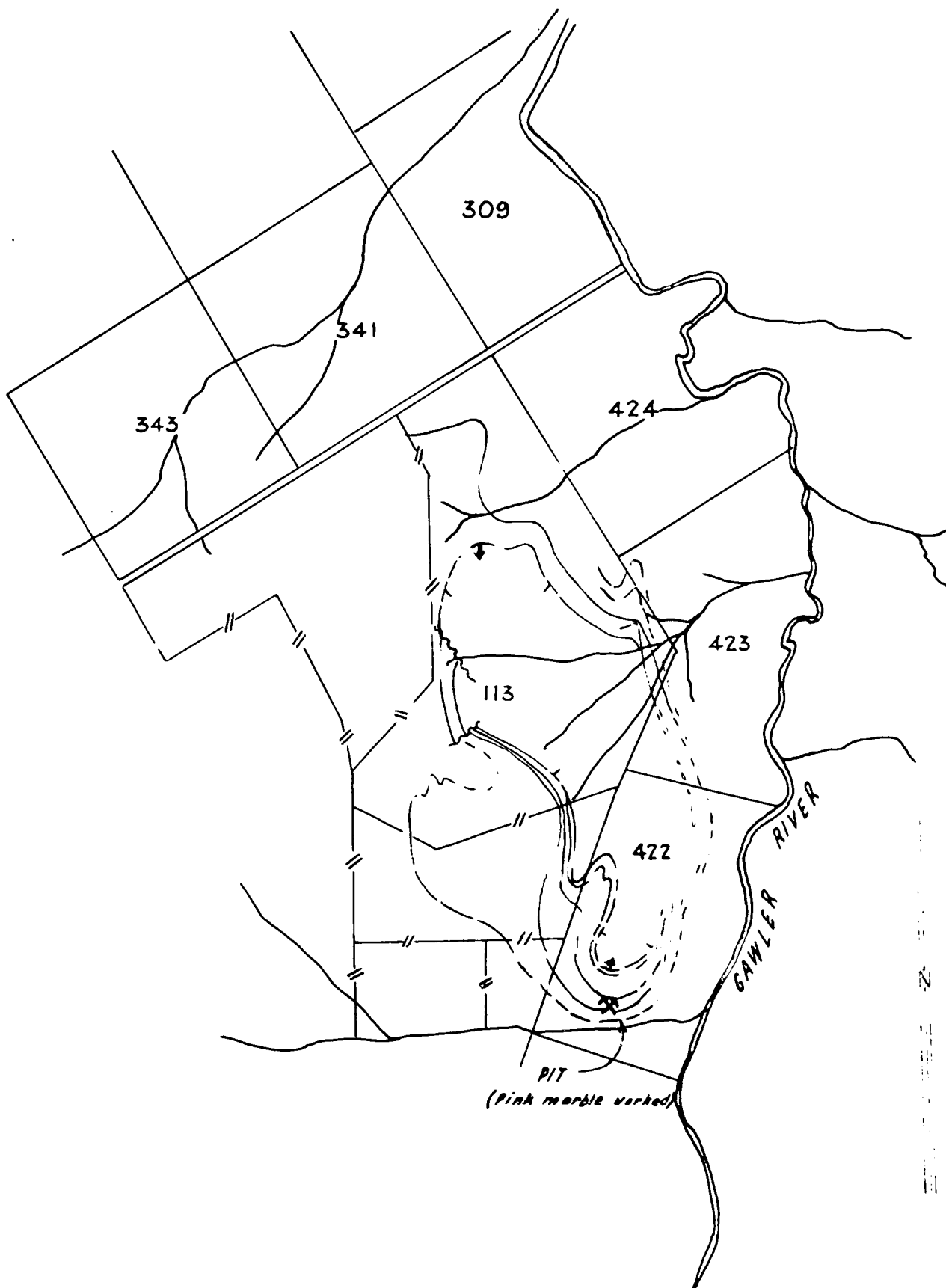
The sediments in the area consist of marbles of Cambrian age folded in meridional trending folds.

The existing pit is located in the keel of a synclinal fold with strong closely spaced jointing. Weathering has extended down these joints and some have developed into solution cavities filled with red plastic clay.

Brief surface examination does not hold out hopes of stone blocks of the size required being obtainable in the area being worked.

It is recommended that the pit be advanced northerly and north westerly into the hill.

  
L. G. NIXON  
GEOLOGIST



To accompany report by L.G. NIXON.

S.A. DEPARTMENT OF MINES

Approved	Passed	Dra.	<b>PINK MARBLE DEPOSIT.</b>	Scale	20 chains to 1"
		By G.K.W.	Sec 422 Hd: Mooroopoo.	R	
Director		Chd	Co. ADELAIDE.		S 2664
		Escd	C.D. TWEEDIE.		Gk 9.
					Date 5-12-60.