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COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

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1944/26

REPORT ON LAKE CARGELICO MAGNESITE DEPOSIT

by

C.J. Sullivan

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DEPARTMENT OF SUPPLY & SHIPPING.

Mineral Resources Survey Branch.

REPORT ON LAKE CARGELLICO MAGNESITE DEPOSIT.  
(Report No. 1944/26)

This deposit was visited for a period of 1½ hours on the 30th May, 1944. It is situated on Mr. McCrane's farm, four miles west of Lake Cargelligo. The field has previously been visited by Mr. St. J. Mulholland of the New South Wales Geological Survey.

An area approximately 150' x 100' has been tested by means of half a dozen pits to depths of 5 to 10 feet. Three of these pits show saleable magnesite and the rest are poor. Approximately 300 feet north-west of the above, nine more pits have been sunk on a similar area. Four of these show high-grade magnesite partially proving it to exist over a length of 150 feet and a width of 50 feet. Mr. Mulholland sampled the magnesite obtained from the various pits and the following results were obtained.

	<u>Sample 1146</u>	<u>Sample 1147</u>	<u>Sample 1148</u>
Gangue	0.7	0.3	1.0
Al <sub>2</sub> O <sub>3</sub> & Fe <sub>2</sub> O <sub>3</sub>	1.0	0.5	1.8
CaCO <sub>3</sub>	2.8	1.9	3.5
MgCO <sub>3</sub>	95.4	97.3	93.4
Water and undetermined	<u>0.1</u>	<u>          </u>	<u>0.3</u>
	<u>100.00</u>	<u>100.00</u>	<u>100.00</u>

Sample No. 1148 was taken as representing the poorer material.

The test pitting has not proved any considerable reserves of magnesite and, in fact, seems to indicate a rather patchy distribution of the ore. It would be necessary to carry out a good deal of further testing before it could be said that the field is likely to produce any considerable quantities of magnesite.

(C.J. Sullivan)  
Geologist.

Canberra, A.C.T.  
7th June, 1944.