

TR7-48

11. DOLOMITE DEPOSIT IN MAIN CREEK, SAVAGE RIVER AREA

by S. M. Rowe.

On 18th September, 1962, accompanied by D. Groves, I examined a dolomite deposit outcropping on the west bank of Main Creek in the Savage River area and exposed from 1,350 feet W to 1,650 feet W on the 18,000 feet N traverse on the Long Plains geophysical grid. This is over a vertical thickness of 70 feet by aneroid, from 20-90 feet above creek level. The dolomite was traced 250 feet to the north of the 18,000 feet N traverse and 400 feet to the south where it outcrops in the bed of Main Creek. These dimensions give possible reserves of 300,000 tons allowing 25% for solution cavities.

Mica schist lies below and above the dolomite which is massive, coarse grained and pale yellow-brown in colour. The texture of the dolomite is uniform throughout and the grade appears to be high. Parallel relatively low angle joints resembling bedding planes show variable directions in nearby exposures, 40°S and 20° NW, and are intersected by near vertical calcite veins. A chip sample was taken over the full section exposed on the 18,000 feet N traverse.

The following analysis shows the rock sampled could be better described as a magnesite.

	Per Cent.
SiO ₂	0.80
Al ₂ O ₃	0.23
Fe ₂ O ₃	1.0
MnO	0.11
TiO ₂	Nil
CaO	2.65
MgO	44.6
Ignition Loss	50.5
P ₂ O ₅	Trace
SO ₂	Nil
S	Nil