MANTON RIVER
EL 5648

PARTIAL RELINQUISHMENT REPORT
FOR THE PERIOD ENDING
28 JUNE 1991

Distribution:
Newcrest Mining Limited, Belmont
Newcrest Mining Limited, Melbourne
Newcrest Mining Limited, Darwin
Burmine Limited
Department of Mines.

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INTRODUCTION

EL5648 covers 15 graticular blocks and is the subject of a joint venture between Newcrest Mining Limited as Managers and Burmine Ltd where Newcrest can earn 70% with an exploration expenditure of $500,000. The licence area has been the subject of a 50% reduction and this report covers the exploration carried out over the relinquished portion of EL5648.

LOCATION AND REGIONAL GEOLOGY

EL 5648 is located 60km SE of Darwin and covers the faulted contact between the Archaean Rum Jungle Complex and sediments of the Lower Proterozoic Mt Partridge Group representing the basal sequence of the Pine Creek Geosyncline.

The Giants Reef fault is a major structure with a local strike slip component in the order of 10km. The auriferous breccia at the Manton prospect lies right in the fault zone. Investigations have shown that all other known gold mineralisation in the Rum Jungle region also relates to NE trending fault zones. These faults appear to be splays which brake off the main Giants Reef fault as it traverses and is deflected by the Rum Jungle and Waterhouse Archaean basement complexes.

MAPPING AND SAMPLING

A general reconnaissance mapping and rock chip sampling programme was carried out over the entire Licence area.

No anomalous areas were discovered within the eastern half of EL5648 and subsequently the decision was made to relinquish that portion of the licence (see cross hatched area on fig. 2).