KEN DAY PTY LTD

EXPLORATION LICENCE 2769

GOLDEN DYKE DOME - NORTHERN TERRITORY

FINAL REPORT: YEAR 6 (1986/87)

FOR RELINQUISHED AREA

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NORTHERN TERRITORY GEOLOGICAL SURVEY
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FIGURE 1 - LOCATION MAP SHOWING TENEMENT BOUNDARIES

FIGURE 2 - GEOLOGICAL MAP SHOWING TENEMENT BOUNDARIES

ENCLOSURE 1 - GEOLOGICAL AND TOPOGRAPHICAL MAP, EL 2769 AND EL 2770
1. **INTRODUCTION**

Exploration licence 2769 is located approximately 150km southeast of Darwin on the former southern portion of the Prices Springs Pastoral Station. The licence area is now part of the Douglas Pastoral Station which is owned by Messrs Henry, Walker, Bailey and Wright.

EL2769 was granted on 31.5.81 for a period of 6 years.

This is the final report for the licence area not retained under tenement applications.

2. **LOCATION AND ACCESS**

EL 2769 is located in the old Cullen Mineral Field (now part of the Northern Mineral Field) outside the southern boundary of the Mt Wells Policy Reserve and to the southeast of the Golden Dyke Dome. (Enclosure 1 and Fig.1)

EL 2769 has its northern boundary on 13 degrees 35'S, its eastern boundary on 131 degrees 33'E, its southern boundary on 13 degrees 36'S, and its western boundary on 131 degrees 32'E.

Its area is graticular block, ie 3.3 sq km.

The western, southern and eastern boundaries of the relinquished area coincide with the exploration licence boundaries whilst the northern boundary lies 440m south of 13 degrees 35'S.

Access to the area is via a track leaving the Mt Bonnie Road to the south of the Golden Dyke Mine. This road passes through the northern section of EL 2769 and ends at the northwest corner of EL 2770 adjacent to the eastern boundary of EL 4818.
3. DESCRIPTION

The northern part of exploration licence 2769 consists of rugged topography which is dissected by streams draining from the west, east and south. This system drains the Golden Dyke to the west, the Margaret Dome to the East and the Cullen Granite to the south.

In contrast, the southern half of the exploration licence has a relatively broad and flat lying topography due to deep chemical weathering of the Cullen Granite which underlies the recent soil cover.

Vegetation throughout the area shows variation with changes in geology. Predominantly sparse woodland containing Ironbark and Eucalypts with very little groundcover except for speargrass characterizes the Lower Proterozoic metasediments of the region. Open woodland, comprising Woollybutt, Whitegum and Iron Bark trees and a higher proportion of shrubs and groundcover occur in the richer soils derived for the weathered dolerite sills. The sandy soils derived from granite are marked by sparse scrub consisting of hardy Eucalypt species.

4. GEOLOGY

The stratigraphy of the relinquished portion of EL 2769 consists of the Lower Proterozoic Gerowie Tuff of the South Alligator Group, which is intruded by the Cullen Granite. Cenozoic sediments overlay much of the Granite in the southern region.

The south easterly plunging antclinal axis of the Golden Dyke Dome is situated in the north eastern corner of the relinquished area.

Refer to Figure 2 and Enclosure 1 for Geological Map.

5. PREVIOUS EXPLORATION

So far as has been able to be ascertained, there has been no previous reporting done specifically on this area. Several reports have however been done on the Golden Dyke Dome as a whole. These reports have tended to concentrate on the western flank of the dome as this is where mineralisation has been discovered to date.

No previous work had been done by Ken Day Pty Ltd on EL 2769 until 1985/86 when exploration work was carried out on the northern area where tenements are now under application (Jettner, 1986). The exploration licence was also traversed by the company prospector.
6. **EXPLORATION FOR YEAR 6**

All major drainages within EL 2769 were sampled for gold. The method involved extracting twelve litres of alluvium, screening to minus 2cm and panning, with a visual inspection for gold. No gold was found in the southern area of EL 2769, and consequently no further work was done in this region.

7. **REFERENCES**
