EXPLORATION LICENCE 8320
COLES HILL NORTH
NORTHERN TERRITORY
FIRST RELINQUISHMENT REPORT

OPEN FILE

Prepared for
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SUMMARY

Exploration Licence 8320 "Coles Hill North" comprising three graticular blocks, was originally granted 24 November, 1993 for a term of four years. The licence was secured to cover an aeromagnetic anomaly interpreted to result from magnetite bearing basement stratigraphy equivalent to the basemetal-gold-silver bearing strata occurring at the Coles Hill Prospect six kilometres to the south.

No subsurface testing of the soil covered basement was carried out within the surrendered area.

Statutory requirements are that a single graticular block should be surrendered on the second anniversary of granting of the tenement.

The graticular block surrendered covered part of the magnetic feature that was of low intensity. No field work had been done in this area.
1. INTRODUCTION

Coles Hill North, EL 8320, is located within the Burt 1:100,00 sheet, approximately eighty kilometres north of Alice Springs (Figure 1).

The original area, covering three graticular blocks, was granted 24 November, 1993, for a term of four years (Figure 2).

The surrendered area is the easternmost graticular block as shown in Figure 3.

2. GEOLOGY

The Central Australia basement consists of crystalline igneous and metamorphic rocks of the Arunta orogenic domain. The regional geology of the Arunta Block is described in Shaw, 1990 and the general geology of the licence environs given in Tipper, 1969.

Outcrop has not been observed within the licence. Proterozoic Strangways Range Metamorphic Complex outcrops east of the licence at the west end of Strangways Range and at Coles Hill radio tower westward.

In the Red Rock Bore area remnants of Tertiary pisoliths and Waite Formation carbonates occur as thin veneers on basement. These rocks may extend beneath the soil cover of EL8320.

3. AEROMAGNETIC SURVEY (Figure 4)

EL8320 was secured to cover an aeromagnetic anomaly defined in a 1965 BMR survey of the Red Rock Bore area (Tipper, 1969).

Tipper regarded the EL8320 anomaly as related to basement stratigraphy equivalent to, and a possible fold repeat of, the basemetal-gold-silver strata hosting the Coles Hill Prospect near Red Rock bore.

The anomaly was interpreted to relate to two or more bodies centred around 150 metres below surface.

The surrendered graticular block covered the eastern, less intense portion of the magnetic anomaly. At surface the area is covered by soils supporting dense scrub thickets and, in places, remnant sheets of transported pisoliths. No surface or subsurface geochemical sampling was completed within the surrendered area.
4. REFERENCES

Shaw, R. D., 1990
Arunta Block - regional geology and mineralisation in Geology of the Mining Deposits of Australia and PNG (Ed. F. E. Hughes) pp 869-874.

Tipper, D. B., 1969

Warne, S. B., 1994
ARUNTA - TANAMI MINERAL TENEMENTS

LOCATION PLAN

FIGURE 1
ABORIGINAL FREEHOLD PORTION 3809

NORTH SOUTH STOCK ROUTE (AILERON AND YAMBAH)
LAND CLAIM 4 June 1984

ABORIGINAL FREEHOLD PORTION 3808 (Excised)

ROEBUCK RESOURCES N.L.
COLES HILL GROUP
COLES HILL EL(A) 8125 AND COLES HILL NORTH EL 8320

TENEMENT PLAN

Compiled: SBW  Date: Sept 1994  FIGURE 2
EL 8320
2 BLOCKS