TANAMI JOINT VENTURE

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EXPLORATION LICENCE 5421

TANAMI DOWNS STATION
TANAMI REGION
NORTHERN TERRITORY, AUSTRALIA

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1. SUMMARY AND CONCLUSIONS

Compilation of available data, reconnaissance geological mapping and interpretation of magnetic data has shown that prospective targets for near-surface gold mineralisation do not occur in El 5421. Outcropping rocks on the licence area comprise either Cambrian or Permilian-age sequences. Prospective Lower Proterozoic rocks probably lie at depth beyond reasonable open-pitable limits. It was because of higher exploration priorities elsewhere and the high risk of exploring deep targets that the licence was surrendered.

2. INTRODUCTION

Exploration Licence 5421 is located on Tanami Downs Station (Pastoral Lease 695) approximately 60 km south-west of the Tanami Mine (Fig. 1). The licence area lies between longitude 129°00' and 129°29' east and latitude 20°21' and 20°46' south abutting the Northern Territory/Western Australia boundary. The area is accessed by good graded tracks leading westwards from Tanami Downs homestead which is located 25 km east of the licence boundary. The homestead is reached by a 55 km gravel road running south westwards from the main Alice Springs/Halls Creek Road from a point of 5 km west of Rabbit Flat.

The licence covers an area of 1,562 km² (485 blocks) and was granted on 15th October, 1987 to Harlock Pty Ltd. On 1st May, 1988 the Tanami Joint Venture gained control of the licence. Pursuant to the Mining Act 242 blocks were nominated for relinquishment on 15th September, 1989, a further 109 blocks were nominated for voluntary relinquishment on 23rd January, 1990 and a further 68 blocks were nominated for voluntary relinquishment on 15th October, 1990. The licence therefore covered 213 km² (66 blocks) when it was surrendered on 25th October, 1991.

3. GEOLOGY

A full geological description of the area is provided in previous Annual Reports and will not be repeated here.

4. WORK CARRIED OUT


Work during Year 1 of the licence initially comprised literature research, photo-interpretation and geophysical interpretation of the licence area. Data from BMR reports, open file company reports and water bore logs were collated.

A geological reconnaissance of the licence area was completed to confirm the accuracy of the BMR mapping. The reconnaissance was mainly achieved by traversing along the numerous water bore access tracks. No major inconsistencies with the BMR mapping were found.
In addition, more detailed work was completed in the McFarland's Peak bore area, where the geophysics indicated a magnetic unit is shallow to outcropping. Field inspection found outcropping folded greenschist metamorphic rocks. A traverse across these rocks included the collection and analysis of petrological samples.

4.2 YEAR 2 (1989/1990)

In order to obtain a better understanding of the geology of the licence area the open file airborne magnetic from the BHP, North Flinders Mines and NTGS surveys were purchased. These data comprised residual magnetic contour plans and copies of tapes obtained from Geoterrex.

Image processing of the airborne magnetics and radiometric data was carried out. A major magnetic anomaly occurred in the north eastern part of the licence area and a ground magnetics programme was proposed so as to position one or more drill holes.

4.3 YEAR 3 (1990/1991)

In order to accurately locate the magnetic anomaly in the north eastern part of the licence area a 12-line km reconnaissance ground magnetic survey was carried out. Due to logistical problems and the non-availability of a suitable drilling rig, the proposed drill hole to test the magnetic anomaly was not started.


The suggested target depth to the top of the magnetic anomaly was greater than 250 metres and no justification existed for the testing of it due to higher exploration priorities at the Tanami Mine. Thus decisions were made not to test the target and surrender the licence. No additional field work was carried out on the licence area.

5. EXPENDITURE

Total expenditure on Exploration Licence 5421 amounted to $105,238.71 with $2,113.96 being expended in the final year.
6. **LIST OF PREVIOUS REPORTS**


   Exploration Licence 5421, Tanami Downs Station, Northern Territory
   Annual Report 1989
   Tanami Joint Venture

   Exploration Licence 5421, Tanami Downs Station, Northern Territory
   First Relinquishment Report 1989
   Tanami Joint Venture

   Exploration Licence 5421, Tanami Downs Station, Northern Territory
   Third Annual Report 1990
   Tanami Joint Venture

   Exploration Licence 5421, Tanami Downs Station, Northern Territory
   Relinquishment Report 1990
   Tanami Joint Venture