ANNUAL EXPLORATION REPORT.

EXPLORATION LICENCE 40 - McLAREN CREEK.

TENNANT CREEK, NORTHERN TERRITORY.

for the year ending

30th March, 1974.

CR 74/176

CONTENTS.

SECTION 1. ANNUAL EXPLORATION REPORT.

1. Introduction.

2. Exploration.
   2.1 General.
   2.2 Magnetic Anomaly Gw 901.
   2.3 Magnetic Anomaly Gw 904.

3. Summary and Expenditure.

Fig. 1. Locality Map - EL 40 McLaren Creek.

SECTION 2. TECHNICAL DATA.

Nil

Prepared for NOBELEX N.L.

By AUSTRALIAN DEVELOPMENT LIMITED.

Managing Agents for NOBELEX N.L.
SECTION 1. ANNUAL EXPLORATION REPORT.

1. INTRODUCTION

Exploration Licence 40 covers an area of 1,296 square kilometres and is located around McLaren Creek; 64 km. south of Tennant Creek (see Fig. 1). This report should be read in conjunction with the Annual Exploration Report for the year ended 30th March, 1973.

Exploration work during the period consisted of:-

1) evaluation of diamond drill hole data obtained at magnetic anomaly GW901 during the previous period.

2) interpretation of data obtained at magnetic anomaly GW904 during the previous period.

and

3) evaluation of airborne geophysics data on a regional basis in conjunction with work on the adjacent EL’s 41 and 851 which are also held by Nobelex N.L.

Planned field work; to examine areas of Warramunga Group volcanics in the northwest section of the EL was abandoned due to the onset of the extended, record 1973-74 wet season.

2. EXPLORATION.

2.1 General.

Qualitative aeromagnetic interpretation was completed in an attempt to define the extent and regional structure of the magnetic banded iron sequence with minor associated sulphides intersected in DDH 422 at the GW904 prospect. This interpretation was augmented with aeromagnetic data from EL's 41 and 851 which are adjacent to EL 40.

2.2 Magnetic Anomaly GW901. (See previous report).

Interpretation

Evaluation of data obtained from DDH 422 was completed. This evaluation was used to assist in regional interpretation (see above).
2.2 Magnetic Anomaly GM901. (cont.)

Further Work.

No further work is planned at this stage.

2.3 Magnetic Anomaly GM904. (See previous report).

Interpretation.

Interpretation of the ground magnetic data was completed. This interpretation indicated that the anomaly was probably due to a broad, shallow body with low susceptibility. The similarity of this interpretation to that for GM901 suggested that the body may be a structurally terminated series of banded ironstone. It was concluded that the anomaly was highly unlikely to be due to a Tennant Creek type ironstone.

Further Work.

No further work is planned at this stage.

3. SUMMARY AND EXPENDITURE.

A summary of exploration work on BL 40 - McLaren Creek; during the period is given below.

Interpretations: 1

The total expenditure for BL 40 for the second year of tenure was $3,265. This figure includes some carry over of diamond drilling costs incurred during the first year of tenure.

The total expenditure on BL 40 to date is $24,087.