TERRITORY RESOURCES N.L.

EXPLORATION LICENCE 5407

KOOLENDONG VALLEY - NORTHERN TERRITORY

FINAL REPORT

November 1989
Summary

Work on EL5407 has been restricted to literature research. This work is detailed in the attached copy of the annual report for Year One of the licence. No fieldwork was undertaken during the term of the licence.
TERRITORY RESOURCES N.L.

EXPLORATION LICENCE 5407

KOLENDONG VALLEY - NORTHERN TERRITORY

ANNUAL REPORT FOR YEAR 1 (1987/88)

September 1988
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Appendix 1 1966 C.R.A. Exploration Limited Report
Appendix 2 1982 Geopeko Report

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1) Location Map
1.0 Summary

Due to the present financial situation of Territory Resources NL no on site exploration was carried out during the first year of this licence.

Work that was carried out consisted of literature research of previous exploration which revealed two main areas of interest;

a. The reported occurrence of gold in quartz samples.

b. The presence of a large magnetic anomaly within the licence area.

Territory Resources NL is presently negotiating with several parties with a view to a Joint Venture of this particular licence, the emphasis being on the exploration of the gold potential.

2.0 Introduction

Exploration licence 5407 is situated approximately 280km south of Darwin in the Fitzmaurice River Locality. (See figure 1).

This licence was granted, for a period of six years, on 13 August 1987 to Territory Resources NL to carry out exploration for Gold, Platinum, Copper, Diamonds, Silver, Lead and Zinc.

Following grant of this licence Territory Resources NL suffered a financial setback due to the stockmarket collapse and the closure of the company's alluvial gold mine. The result of these setbacks being that little money was available for exploration and the company was placed in Liquidation with a Receiver-Manager Appointed.

Territory Resources NL is presently making arrangements to have the Receiver-Manager and Liquidator retired and are negotiating with several parties to Joint Venture this licence primarily for gold exploration.
3.0 Exploration for Year 1

Due to the reasons described above no on site exploration was carried out on the exploration licence this year. Work carried out consisted of literature research of past exploration programs with a view to utilising this data as a base for exploration in year two of the licence.

In carrying out the literature research two areas of particular interest where found, the first being the report of gold traces in quartz reefs by C.R.A. Exploration Pty Ltd in 1966, the second being the report of a large magnetic anomaly by Geopeco in 1982.

3.1 Report of Gold in Quartz Reefs

G. W. Patterson for C.R.A. carried out detailed exploration work throughout a 250 square mile area centered on the Koolendong Valley during the latter part of 1966. This work including the geochemical sampling of drainage lines for Zinc, Lead, Copper and Nickel.

While C.R.A. concluded that it would be unlikely that this area would contain base metal mineralisation they reported finding traces of gold in "dollied grab samples from ferruginous quartz reefs in the volcanic and metamorphic" rocks. Patterson had these results confirmed by assays and suggested that further work should be carried out to test these reefs and to test the surrounding flats for gold.

A copy of Patterson's report is at Appendix 1.

3.2 Identification of Magnetic Anomaly

In 1981/82, under the supervision of D. O'Connor, Geopeco carried out exploration of the Koolendong Valley for diamonds and base metals. As a part of this program they obtained data from a previous airborne magnetic survey by Esso Australia Ltd and identified an intense magnetic anomaly adjacent to the granite in the southern section of the licence.

Geopeco carried out a brief investigation of this anomaly however discounted it for base metals due to the presence of moderately magnetic materials.

A copy of O'Connor's report is at Appendix 2.
EXPLORATION LICENCE 5407

LOCALITY PLAN

Figure 1
4.0 Conclusions

From reports available it appears that little exploration for gold has been undertaken in the Koolendong Valley despite unsubstantiated reports of gold by stockmen and Patterson's findings in 1966.

Companies carrying out exploration in this area appear to have concentrated their efforts in searching for Diamonds, Uranium and Base Metals, this work being over large areas.

Two particular areas of interest, the quartz reefs and the magnetic anomaly have been identified through the literature research.

Due to the large scale nature of previous work and the fact that little or no specific gold exploration has been undertaken these areas will be more closely examined in conjunction with the year two exploration program.

5.0 Expenditure Statement

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6.0 References


APPENDIX 1
C.R.A. EXPLORATION PTY. LIMITED


Memorandum to:  D. S. CARRUTHERS
                    
Copy:              C. L. Knight

From:              G. W. Patterson

Report on Fitzmaurice River Area, N.T.
A.P. 1651

Summary and Conclusions

An area of about four thousand square miles of Proterozoic rocks in the northwest of the Northern Territory does not appear to contain rock types similar to those of the Golden Dyke Formation at Rum Jungle. An area of about 250 square miles covered by drainage reconnaissance sampling contains no anomalous base metal values. Quartz reefs in metamorphic and volcanic rocks carry traces of gold, and some alluvial gold potential could exist in surrounding flats. Conglomerates in the basement complex should be investigated for possible radioactivity.

Introduction

The Proterozoic rocks of the eastern Joseph Bonaparte Gulf have never been known to carry any economic mineralisation. There have been unsubstantiated reports of gold on the Fitzmaurice River and some lead and tin have been reported on the Moyle River. Some galena was supposed to have been seen near the Fitzmaurice River by an anthropologist and a stockman had reported having seen a copper occurrence in the bed of the Fitzmaurice.

Note: A full copy of this report is available.
FINAL REPORT

EXPLORATION LICENCE 3146

19TH OCTOBER 1981 - 17TH JUNE 1982

OPEN FIL

COMPILED BY
D. O'CONNOR

DISTRIBUTION:
N.T. DEPARTMENT OF MINES & ENERGY
GEOPEKO - DARWIN
GEOPEKO - GORDON

DARWIN, N.T.

SEPTEMBER, 1982
An integrated exploration programme was undertaken to search for diamonds and base metals within the Koolendong Valley area. No indications of diamonds or kimberlites or base metal mineralisation were found. However, a large positive magnetic anomaly was located adjacent to an outcrop of granite in the Koolendong Valley. The cause of the geochemical anomalies was not determined and the decision was made to surrender the licence.