OPEN FILE

SECOND ANNUAL REPORT FOR

EXPLORATION LICENCE 8420 (BEANTREE)

01/11/95 to 31/10/96

NAPPERBY 1:250,000 SHEET SF53-09
MT DOREEN 1:250,000 SHEET SF52-12

VOLUME 1 OF 1

Commodities: Gold

Author: RJ Worland

Date: March 1997

Accepted by: 

Distribution: 
- NT Department of Mines and Energy (1)
- Normandy Gold Limited - Darwin (1)
- Normandy Gold Limited - Adelaide (1)

The contents of this report remain the property of PooGold Limited and may not be published in whole or in part nor used in a company prospectus without the written consent of the Company.

Report No. 21159
CONTENTS

LIST OF FIGURES
LIST OF PLANS
ABSTRACT

1. INTRODUCTION 1

2. LOCATION AND ACCESS 1

3. TENURE 1

4. PHYSIOGRAPHY 1

5. REGIONAL AND TENEMENT GEOLOGY 2

6. PREVIOUS EXPLORATION 2

7. EXPLORATION COMPLETED DURING THE PERIOD 1/11/95 TO 31/10/96 3
   7.1 Regional Gravity Survey 3

8. CONCLUSIONS AND RECOMMENDATIONS 3

9. EXPENDITURE FOR 1/11/95 TO 31/10/96 3

10. FORWARD WORK PROGRAM AND EXPENDITURE FOR 1/11/95 TO 31/10/96 4

REFERENCES
### LIST OF FIGURES

<table>
<thead>
<tr>
<th>Figure</th>
<th>Plan No.</th>
<th>Title</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NTD843</td>
<td>Beantree EL 8420 Location and Access Map</td>
<td>1:250,000</td>
</tr>
</tbody>
</table>

### LIST OF PLANS

<table>
<thead>
<tr>
<th>Plan No.</th>
<th>Title</th>
<th>Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>NTD1240</td>
<td>Beantree EL8420 Contoured Bouguer Gravity &amp; Gravity Station Locations</td>
<td>1:150,000</td>
</tr>
</tbody>
</table>
ABSTRACT

Exploration Licence 8420 (Beantree) was granted to PosGold Pty Ltd on 1 November 1994 and is currently part of Substitute Exploration Licence Application 9500. In late 1996, PosGold Ltd was wholly merged with parent company Normandy Mining Ltd, and subsequently changed company name to Normandy Gold Pty. Ltd.

The Beantree Licence was taken out to explore for structurally controlled gold mineralisation in the Proterozoic Lander Rock Beds of the Arunta Orogenic Domain. Exploration has discovered that a large portion of the tenement, both exposed and concealed, comprises granite derived rocks. The remaining Lander Rock Beds have been metamorphosed to upper amphibolite facies the grade of which is deemed to be beyond the potential for hosting gold mineralisation of economic proportions.

The regional gravity survey conducted during the report period further established the lack of prospective targets at Beantree, although further work on the metamorphic, structural and textural relationships of gold mineralisation on adjacent EL7343 is still warranted to provide further targets for systematic exploration within EL8420.
1. INTRODUCTION

Exploration Licence 8420 (Beantree) was granted to Normandy Gold Pty Ltd on 1 November 1994 for a period of six years. The licence originally covered an area of 359 blocks (1156 square kilometres) and was reduced to 180 blocks (580 square kilometres) from 1 November 1996. This report covers exploration work completed during the second year of tenure.

The licence area was applied for to target structurally controlled gold mineralisation within the Lower to Mid Proterozoic metamorphosed units of the Arunta Orogenic Domain.

2. LOCATION AND ACCESS

Exploration Licence 8420 is located on the Napperby (SF53-09) and Mt Doreen (SF52-12) 1:250,000 sheets, 220km northwest of Alice Springs and covers parts of the Coniston and Mt Denison pastoral leases.

Access to the tenement is from the Stuart Highway, north of Aileron, via the unsealed Coniston Station Road to Mt Denison. Alternative access is via the Tanami Road from Alice Springs to Yuendumu, and then east via the unsealed Coniston Station road.

Station tracks provide some access within the tenement.

3. TENURE

Exploration Licence 8420 (Beantree) was granted to Normandy Gold Pty Ltd on 1 November 1994 and originally consisted of 359 blocks (1156km²). At the end of the second year of tenure the licence was reduced to 180 blocks (580 km²).

Currently EL8420 forms part of a Substitute Exploration Licence Application 9500 (SELA9500) which was submitted on 5 March 1996 and includes adjoining exploration licences 7343, 9277 and 9278.

4. PHYSIOGRAPHY

The physiography and erosion history of Central Australia is described in Mabbutt (1967).

The tenement is dominated by sandplains and peneplains developed on granite. The landscape is rugged with numerous small incised drainages in areas of granite outcrop.

Drainages in the region are perennial. The dominant drainages are Cockatoo Creek, Five Mile Creek, Western Creek and Crown Creek.

Vegetation consists of spinifex, shrubs (cassia) and low trees (mallee, acacia) with isolated ghost gum, river red gum and tea tree along water courses. Most of the flat lying areas are dominated by moderate to thick mulga scrub.
5. REGIONAL AND TENEMENT GEOLOGY

The tenement lies in the north western portion of the Early to Mid Proterozoic Arunta Orogenic Domain in the Northern Territory.

The Arunta Orogenic Domain comprises metamorphosed sedimentary and igneous rocks which have been extensively intruded by a range of granite bodies. The Granites-Tanami and Tennant Creek Inliers are located to the northwest and north, respectively. On all other sides, the Arunta Orogenic Domain is surrounded by, and forms basement to, younger Late Proterozoic to Mid Palaeozoic sedimentary basins.

The Arunta Orogenic Domain is structurally complex and is interpreted to contain lithological corollaries with the Granites-Tanami and Tennant Creek Inliers - both of which host significant gold mineralisation.

The tenement is dominated by the Wangala Granite which is a coarse porphyritic granite with aligned feldspar.

Mapped outcrop to the north of the granite consists of Lander Rock Beds (LRB), Wickstead Creek Beds and Mt Stafford Beds. The units are described as follows:

- Mt Stafford Beds: Spotted and Layered Cordierite hornfels
- Lander Rock Beds (LRB): Schistose pelitic metasediments and quartzo-feldspathic gneiss
- Wickstead Creek Beds: Calc-silicate rock, marble, gneiss, schist

Structurally, the area is dominated by northwest to southeast trending structures within the granite.

Reconnaissance and shallow drilling identified an abundance of granite, orthogneiss and migmatitic granite dominating the tenement. Similarly, the presence of high grade metamorphic Lander Rock Beds reduced the prospectivity of much of the tenement for economic gold mineralisation.

6. PREVIOUS EXPLORATION

Previous work by Normandy Gold Pty Ltd has included:-

- Airborne magnetic and radiometric survey;
- Regional soil and lag sampling;
- Shallow reconnaissance RAB drilling; and
- Shallow regional vacuum drilling.

The first year of exploration downgraded the potential for the Beantree licence to host economic gold mineralisation. The outcrop geology of the tenement is dominated by granite, orthogneiss and migmatitic granite. The minor amount of Lander Rock Beds outcrop has been metamorphosed to a grade viewed as too high for economic gold mineralisation. Subsequent drilling of areas under cover thought to conceal potential Lander Rock Beds intersected further extensive granite and orthogneiss.
7. EXPLORATION COMPLETED DURING THE PERIOD 1/11/95 TO 31/10/96

7.1 Regional Gravity Survey

Gravity data shows a stark contrast between granites and sedimentary sequences enabling broad areas of potential Lander Rock Beds to be outlined.

To identify any remaining tenement area under cover that may conceal Lander Rock Beds, a regional gravity survey was undertaken along tracks within EL 7343, 9277 and 9278 and extended west into EL8420.

A total of 8 gravity stations over approximately 40 square kilometres of the Beantree Licence were collected. Survey specifications, gravity contours and stations are given on plan NTD 1240.

The data shows a steady decline to the west, away from Lander Rock Beds in EL7343, indicating the presence of granite.

Consequently the survey extended only marginally into EL8420 before the data confirmed the first year drilling results and the lack of prospective Lander Rock Beds.

8. CONCLUSION & RECOMMENDATIONS

Work carried out has significantly downgraded the potential of the Beantree Licence to host economic gold mineralisation. Most of the licence, both exposed and under cover, comprises granite, orthogneiss and migmatitic granite. Of the Lander Rock Beds identified, most has been metamorphosed into upper amphibolite grade, deemed to be beyond the limit for economic gold mineralisation to be deposited (apart from retrograde structures).

Further work will be dependent on the evaluation of the timing, structural, metamorphic and textural relationships of mineralisation identified on the adjacent EL7343. Work on EL7343 has clearly shown that a large regional mineralised structure system is present and if mineralisation is related to post peak metamorphic conditions and other common criteria, parts of the Beantree licence deformed by regional structures may be targets for mineralisation.

9. EXPENDITURE FOR 1/11/95 TO 31/10/96

Expenditure for the period 1 November 1995 to 31 October 1996 totalled $28,736 as detailed. This is below the covenant of $49,000 due to both the discouraging results of the geochemical drilling and gravity survey and the higher prioritisation of targets within adjacent EL7343 and EL9278 which have produced more significant indicators to mineralisation which require detailed follow-up work.

- Employee Costs $18,537.00
- Operating $3,078.00
- Specialist Services $1,495.00
- Overheads/Office $5,625.00

TOTAL $28,735.00
10. FORWARD WORK PROGRAM AND EXPENDITURE FOR 1/11/96 TO 31/10/97

Exploration activities for the third year of tenure will involve identifying regional structures with similar features to the mineralised system on EL7343. Consequently further field work will be dependent on gaining a fuller knowledge of mineralisation which exists within EL7343. Any targets identified are likely to be explored in the fourth year of tenure, using a combination of geophysical surveys (induced polarisation), geochemical surface and drillhole sampling and structural and whole-rock analysis of the Wangala Granite.

Expenditure for Year 3 of tenure is estimated at $30,000, as detailed below:-

<table>
<thead>
<tr>
<th>COSTS</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employee Costs</td>
<td>$12,000.00</td>
</tr>
<tr>
<td>Operating</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>Specialist Services</td>
<td>$10,000.00</td>
</tr>
<tr>
<td>Overheads/Office</td>
<td>$3,000.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$30,000.00</strong></td>
</tr>
</tbody>
</table>
REFERENCES


REPORT NUMBER:  20159

REPORT TITLE:  SECOND ANNUAL REPORT ON EXPLORATION LICENCE 8420 (BEANTREE) 1/11/95 TO 31/10/96

PROSPECT NAME:  BEANTREE

TENEMENT NUMBER:  8420

OWNER/JV PARTNERS:  NORMANDY GOLD

COMMODITY(IES):  GOLD

TECTONIC UNIT(S):  ARUNTA

STRATIGRAPHIC UNIT:  LANDER ROCK BEDS
                     REYNOLDS RANGE GROUP

1:250,000 MAP SHEET(S):  NAPPERBY (SF53-09)
                          MT DOREEN (SF52-12)

1:100,000 MAP SHEET(S):

KEYWORDS: