Barrow Creek Project

1:100 000 Mapsheet: 5853 Utopia
1:250 000 Mapsheet: SF5310 Alcoota
Commodities: Gold, REE
Contents

1. Executive Summary
2. Contact Details
3. Introduction
4. Tenure
   a. Mining
   b. Real Property
   c. Other Stakeholders
5. Location and Access
6. Regional Geology
7. Licence Geology
8. Previous Exploration
9. Work Done in Year 2 (2010-2011)
   a. Field Work
   b. Desktop Surveys
11. Expenditure Covenants
12. References

List of Figures

Figure 1. Location Map
Figure 2. Real Property Tenure
Figure 3. Licence Access
Figure 4. Regional Geological Setting
Figure 5. Licence Geology
Figure 6. Historical Exploration Licences

List of Tables

Table 1. Historical Exploration Reports

List of Appendices

1. **Executive Summary**

In the latter part of October 2010 EL 26974 was purchased by Fertoz Pty Ltd from the previous titleholders FSL World Holdings Pty Ltd. The EL consists of 24 graticular blocks, (80km²) located in the Barrow Creek Region of the Northern Territory. The licence was originally applied for with the intention of exploring for upwelling-type phosphate but onground work has shown the licence to contain Proterozoic and Palaeozoic rocks so the exploration focus has shifted to reviewing the previous explorers data for IOCG-style gold deposits with the intention of continuing the search for this style of deposit in the future.

2. **Contact Details:**

**Tenement Holder:**
Fertoz Pty Ltd  
40 Balgowlah St.  
Wakerley  
QLD 4154  
Contact: Mr Les Szonyi  
Email: lszonyi@bigpond.com

**Tenement Manager:**
Complete Tenement Management  
PO Box 2515  
Darwin NT 0801  
Contact: Mrs Wendy Jettner  
Tel: 08 8981 1880  
Email: contact@completetenement.com.au

**Geological Consultant:**
Minesite Services Australia  
13 Mander Rd  
Holtze NT 0831  
Contact: Mr Andrew Jettner  
Tel: 08 8931 1461  
Email: andrewjettner@yahoo.com.au
3. **INTRODUCTION**

EL 26974 was granted on the 23rd of July 2009 for a period of 6 years and this annual report covers work done in the second licence year (2010-2011). During this period the field work done on the licence consisted of a reconnaissance traverse through the licence area. The licence consists of 24 graticular blocks and is located south east of Barrow Creek NT. This exploration licence, along with ELs 26915, 26975, 26977 and 27036 form a total area of 2,890 km² for the Barrow Creek Project Area. The licences are arranged in a north-westerly trending line covering the postulated western margin of the Georgina Basin.

![Figure 1. EL 26974 Location Map](image-url)
4. **Tenure**

**a. Mining**
Exploration Licence 26974 was granted to FSL World Holdings on 23rd of July 2009 for a period of 6 years, expiring on 22nd July 2015. Fertoz Pty Ltd purchased the licence in late October 2010. The exploration licence consists of 24 graticular blocks (80km²) and is located within the Alcoota 1:250 000 mapsheet.

**a. Real Property**
The licence is located within PPL 1032 “Alcoota Station” which is owned by the Alcoota Aboriginal Corporation (Alcoota Station PMB 27 Alice Springs NT 0872). Another area is vacant crown land.

**b. Other Stakeholders**
Other stakeholders in the licence area consist of the Angarapa peoples who are the identified traditional owners of this area. They are located to the north and east of EL 26974 on a large freehold landholding. The Alcoota Station is owned by the Alcoota Aboriginal Corporation.

![Figure 2. Real Property Tenure](image-url)
5. **Location and Access**

EL 26974 is located some 170km to the northeast of Alice Springs on Alcoota Station. Access to the licence from Alice Springs is 60km north via the Stuart Highway, then 30km east on the Plenty Highway, then 125km northeast on the Sandover Highway to Utopia outstation. The EL is located some 15km to the south of Utopia along minor station tracks.

Access around the licence area is relatively slow with few fencelines and station tracks.

---

**Figure 3. EL 26974 Access**
6. **REGIONAL GEOLOGY**

EL 26974 is located primarily within the Aileron Province adjacent to an outcropping section of the Georgina Basin. It was applied for to cover a section of Georgina Basin margin to allow for exploration for phosphorite occurring in the middle to lower Cambrian Limestones of the Georgina Basin. It also contains a major northwest to south east trending structural corridor which contains the Stirling fault. The Aileron Province is a poly-deformed and metamorphosed basement terrain along the southern margin of the North Australian Craton. It contains metamorphosed clastic sediments, meta volcanic rocks, calc-silicate rocks, dolerite, mafic rocks and granites. It is unconformably overlain by the Ngalia, Amadeus, Murraba, Georgina and Eromanga basins. It has a largely faulted relationship with the Warumpi and Iriwindina Provinces and represents a transitional relationship with the Tanami Region. The Aileron Province hosts a variety of economic commodities including metamorphosed VMS and carbonate replacement Pb-Zn-Cu, iron-oxide Cu-Au, orogenic Au, W, Sn, Ta, mafic hosted Ni-Cu, hypothermal U and is a major exploration target for base metals, Ni-Cu, uranium, mafic-hosted vanadiferous magnetite and remains largely unexplored, (Scrimgeour 2003).

![Figure 4. Regional Geological Setting – Barrow Creek Project Area](image-url)
7. Licence Geology

The licence geology consists of Proterozoic and lower Palaeozoic sediments overlain by Tertiary and Cainozoic cover with Quaternary soils and sands.

The uppermost unit found in the licence area is the Tertiary Waite Formation. This unit consists of chaledonic limestone, sandstone, mudstone with minor sandy conglomerate and outcrops sporadically throughout the central part of the EL.

The next youngest outcropping rock unit is the Lower Cambrian Central Mt Stuart Beds, which are composed of chocolate quartz and lithic sandstone with rare dolomite and arkose. Also outcropping are the Proterozoic Utopia Quartzite, which consists of quartzite with rare conglomerate, the Proterozoic Ledan Schist, which consists of micaceous schist, tourmaline quartzite, minor para-amphibolite, and metamorphosed conglomerate. In the southern portion of the licence the Delny Gneiss outcrops and this unit consists of leucocratic biotite-microcline-muscovite-quartz gneiss, biotite-muscovite schist, meta-psammite and meta-pelite, amphibolite with very minor calc-silicate gneiss.

The metamorphic grade increases from north to south across the licence ranging from schist in the north to gneiss in the southern portion.

Figure 5. Licence Geology
8. **PREVIOUS EXPLORATION**

Previous exploration in the licence area has been conducted by Otter Exploration who sought uranium in the area without success, Track Minerals explored for the same commodity, again without success. Tanami Exploration explored the area extensively seeking Tanami-style gold, iron oxide copper-gold (IOCG) and Tennant Creek-style copper-gold mineralisation in the Alcoota district. Tanami Exploration spent 5 years exploring in this area without success. A thorough review of the Tanami Exploration data is warranted as the target is Tanami/Tennant Creek IOCG style gold deposits.

<table>
<thead>
<tr>
<th>Licence No</th>
<th>Tenure Period</th>
<th>Open File Company Reports</th>
<th>Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>EL 1453</td>
<td>01/04/77 – 31/03/79</td>
<td>CR1978-0048</td>
<td>Otter Exploration NL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CR1979-0035</td>
<td>Otter Exploration NL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CR1979-0091</td>
<td>Otter Exploration NL</td>
</tr>
<tr>
<td>EL 5902</td>
<td>20/06/88 – 02/06/89</td>
<td>CR1989-0705</td>
<td>Track Minerals Pty Ltd</td>
</tr>
<tr>
<td>EL 9804</td>
<td>20/10/02 – 27/09/07</td>
<td>CR2004-0697</td>
<td>Tanami Exploration NL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CR2005-0604</td>
<td>Tanami Exploration NL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CR2007-0595</td>
<td>Tanami Exploration NL</td>
</tr>
<tr>
<td>EL 9806</td>
<td>18/11/02 – 17/10/07</td>
<td>CR2005-0604</td>
<td>Tanami Exploration NL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CR2006-0577</td>
<td>Tanami Exploration NL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CR2007-0595</td>
<td>Tanami Exploration NL</td>
</tr>
</tbody>
</table>

Table 1. Historical Exploration Reports
Figure 6. Historical Exploration Licences

a. **Field Work**

Year 2

Field work on this EL in the second year consisted of a general reconnaissance trip to examine the regional physiography to allow planning for the next field season. The actual licence area was difficult to get to, whilst there were a number of roads skirting the licence area, access away from these roads was impassable due to the vegetation. This will make exploration relatively expensive and will have to be conducted on foot.

b. **Desktop Surveys**

Year 2

Desktop surveys in the second year essentially consisted of the author familiarising himself with the published data by both previous explorers and general data on the area.

The proposed work program for the third year of tenure (2011-2012) will consist of the following:

Annual field exploration follow-up on data generated by Tanami Exploration, review data, review regolith to aid interpretation – 4 men, 3 days

Preparation of the third annual report – 1 man, 2 days

Field activities in this area will be conducted in conjunction with operations on the adjacent exploration licences (ELs 26915, 26975, 26977 and 27036), of the Barrow Creek Project.

11. **EXPENDITURE COVENANTS**


The expenditure report for Year 2 (2010 – 2011) is included as Appendix 1 to this annual report.


The proposed expenditure for Year 3 is as follows:

- First pass exploration program $12,000
- Annual report preparation $3,000
- **Total Proposed Expenditure** $15,000
12. **REFERENCES**

**Open File Company Reports**


**Published Reports**


Northern Territory Geological Survey


**Company Reports**