GBS GOLD Australia Pty Ltd

ANNUAL EXPLORATION REPORT

EL 24058

Yam Creek East

YEAR ENDING 9 AUGUST 2009

Pine Creek 1:250,000 SD5208
Pine Creek 1:100,000 5270

TENEMENT HOLDERS: Buffalo Creek Mines Pty Ltd (50%)
Territory Goldfields Pty Ltd (50%)

Distribution:
- DRDPIFR Darwin, NT
- GBS Gold Australia P/L, Darwin
- Union Reef Mine Site Pine Creek, NT

Report Number: PC/BJV/09-34

Zia U. Bajwah
September 2009
SUMMARY

Exploration Licence (EL) 24058 is located about 150 km SE of Darwin, NT and 20km ESE of Burnside’s Brocks Creek mine office. It lies just east of the Yam Creek-North Point mining centre. The tenement was granted on 10 August 2004 and expires on 9 August 2010. It comprises one graticular block that comprises approximately 3.33 km$^2$. Tenements Holders are the Buffalo Creek Mines Pty Ltd (50%) and Territory Goldfields Pty Ltd (50%) are managed by Burnside Operations Pty Ltd, which is wholly owned subsidiary of GBS Gold Australia Pty Ltd.

EL 24058 comprises a portion of South Alligator Group sediments that lie on the north western flank of the Burrundie Dome, a regional anticlinal structure. The Margaret Syncline containing Mt Bonnie Formation rocks lies to the west and separates the older Burrundie Dome from the Yam Creek sequence.

On 15 September 2008, GBS Gold Australia was declared under voluntary receivership, and all exploration and mining assets including EL 24058 were placed under Care and Maintenance. As a result, only a technical review of the tenement was undertaken which identified a significant potential of the project area. GBS Gold regards the tenement highly and could provide mill feed in the future.

In 2009-10 reporting year, project area will be explored for gold and base metals mineralisation. For this purpose, area identified during this review will undergo soil/rock chip sampling along with geological mapping. If encouraging results received, some RAB/RC drilling may also take place.
TABLE OF CONTENTS

SUMMARY ............................................................................................................................................. 4

1.0 INTRODUCTION ................................................................................................................................ 4

2.0 TENEMENT DETAILS ....................................................................................................................... 4

3.0 LOCATION AND ACCESS .................................................................................................................. 4

4.0 GEOLOGICAL SETTING .................................................................................................................... 6

4.1 Regional Geology ............................................................................................................................. 6

4.2 Local Geology .................................................................................................................................... 8

5.0 GOLD MINERALISATION ................................................................................................................... 8

6.0 PREVIOUS EXPLORATION ACTIVITY ............................................................................................. 8

   Exploration for the period 10 August 2004 to 9 August 2005......................................................... 10

   Exploration for the period 10 August 2005 to 9 August 2007...................................................... 10

7.0 EXPLORATION YEAR ENDING 9 AUGUST 2009 ......................................................................... 11

8.0 FORWARD PROGRAMME year ending 9 August 2010............................................................... 13

9.0 REFERENCES ...................................................................................................................................... 10

LIST OF FIGURES

Figure 1    EL24058 Tenement Location
Figure 2    EL24058 with AGSO Geology
Figure 3    EL24058 data available from the NT Geological Survey
Figure 4    TMI image of the project area

LIST OF APPENDICES

Appendix 1   NORTHERN TERRITORY EXPLORATION
               EXPENDITURE for MINERAL TENEMENT EL 24058
1.0 INTRODUCTION

EL 24058 is a small tenement, situated about 6 km east of Yam Creek project area, which comprises North Point and Princess Louise gold deposits. This report deals with exploration activity carried out during the second year of this tenement, ending 9 August 2009.

2.0 TENEMENT DETAILS

EL 24058 was granted on 10 August 2004 and expires on 9 August 2010. It comprises one graticular block that comprises approximately 3.33 km². Tenements Holders are the Buffalo Creek Mines Pty Ltd (50%) and Territory Goldfields Pty Ltd (50%) and are the Burnside Joint Venture entities. The Burnside Joint Venture is managed by Burnside Operations Pty Ltd which is wholly owned subsidiary of GBS Gold Australia Pty Ltd. Underlying Cadastre is held by Douglas Pastoral Lease (NT Potion 2683).

3.0 LOCATION AND ACCESS

EL 24058 is situated 150km SE of Darwin NT and 5km SE of the Grove Hill Pub on the Darwin-Adelaide railway. Location of tenement is given in Figure 1.

Access to the tenement is via the Stuart Highway, thence north via the Grove Hill unsealed road that passes west of the tenement. Access can be gained via bush tracks that peel off north from the Mt Bonnie access road, towards Iron Blow.

The headwaters of the Margaret River and Saunders Creek pass through the tenement and flow northwards. The topography comprises undulating hills and ridges of low to moderate relief.

The tenement falls on the Pine Creek 1:250,000 sheet and on the Pine Creek 1:100,000 sheet.
Figure 1: EL 24058 Tenement Location
4.0 GEOLOGICAL SETTING

4.1 Regional Geology

EL 24058 is situated within the Pine Creek Orogen, a tightly folded sequence of Palaeoproterozoic rocks, 10 to 14km in thickness, laid down on a rifted granitic Archaean basement during the interval ~2.2-1.87Ga. The sequence is dominated by pelitic and psammitic (continental shelf shallow marine) sediments with locally significant inter-layered cherty tuff units. Pre-orogenic mafic sills of the Zamu Dolerite event (~1.87Ga) intruded the lower formations of the South Alligator Group.

During the Top End Orogeny (Nimbuwah Event ~1.87-1.78Ga) the sequence was tightly folded, faulted and pervasively altered with metamorphic grade averaging greenschist facies with phyllite in sheared zones.

The Cullen intrusive event introduced a suite of fractionated calc-alkaline granitic batholiths into the sequence in the period ~1.87-1.78Ga. These high temperature I-type intrusives induced strong contact metamorphic aureoles ranging up to (garnet) amphibolite facies, and created regionally extensive biotite and andalusite hornfels facies. General geology of the project area is shown in Figure 2.

Less deformed meso and Neo-proterozoic clastic rocks and volcanics have an unconformable relationship to the older sequences. Flat lying Palaeozoic and Mesozoic strata along with Cainozoic sediments and proto-laterite cementation overlie parts of the Pine Creek Orogenic lithologies. Recent scree deposits sometimes with proto-laterite cement occupy the lower hill slopes while fluviatile sands, gravels and black soil deposits mask the river/creek flats areas.

There is a tendency for gold mineralisation to be focused in anticlinal settings within strata of the South Alligator Group and lower parts of the Finniss River Group. This sequence evolved from initial low energy shallow basinal sedimentation to higher energy deeper water flysch facies.
Figure 2: EL 24058 with AGSO Geology
4.2 Local Geology

EL 24058 comprises a portion of South Alligator Group sediments that lie on the north western flank of the Burrundie Dome, a regional anticlinal structure. The Margaret Syncline containing Mt Bonnie Formation rocks lies to the west and separates the older Burrundie Dome from the Yam Creek sequence.

According to the AGSO geology plan South Alligator Group is mainly represented by Gerowie Tuff Formation and concordant sills of Zamu Dolerite (Figure 2). Both have been tightly folded on northerly plunging axes during the Pine Creek Orogeny. Faulting is extensive under the stress of the converging Hayes Creek Fault system (striking NE) to the west, and faulting to the east of the tenement that strikes NNW. Within the tenement the folded sequence has been broken up into blocks and wedges under the influence of the major faults.

5.0 GOLD MINERALISATION

The region has been prospected for gold and has most likely been the subject of soil, stream and rock chip sampling by previous explorers. The structural setting, that includes an anticlinal component, appears favourable for gold though the good exposure makes it less likely to be present.

The Iron Blow Cu-Pb-Zn-Au deposit lies within Mt Bonnie Formation rocks about 2km west of the tenement. The Pickfords Pb deposit and the Mt Bonnie base metal and gold deposits lie 4km south east and south west of the tenement respectively. Otherwise mineralisation is not known within or in the vicinity of the block.

6.0 PREVIOUS EXPLORATION ACTIVITY

See Muir 2006 for summary table of historic data.

Previous explorers within and around EL24058 included Geopeko, Anaconda, Norminco, Northern Territory Gold Mines, Dominion Gold, Cyprus, Calvert River Manganese, Kalmet Resources, CSR and RM Biddlecombe.
The area was originally mapped by the BMR as part of the Burrundie 1:63,360 geological sheet (Walpole and White 1959), the Pine Creek 100,000 geological sheets (Stuart –Smith and Needham 1981) and the Pine Creek 1:250,000 geological sheet (Malone 1962).

A summary of work completed within tenements that have overlapped EL24058.

**EL9956**: No exploration over EL24058. Review of work.

**EL3138**: No exploration other than regional mapping and a radiometric survey over EL24058, although difficult to discern from reports supplied. BLEG sampling over EL3138 between 1985 – 1990 by CSR. EL24058 was relinquished during second year.

**EL4817**: CSR conducted a geochemical and geophysical survey across the region. Four stream sediment samples were taken within EL24058 as part of a programme covering EL4817. The results are as follows

<table>
<thead>
<tr>
<th>Sample No</th>
<th>Au (ppb)</th>
<th>Ag (ppb)</th>
<th>Cu (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>217893</td>
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<td>15.3</td>
<td>30</td>
</tr>
<tr>
<td>217894</td>
<td>1.01</td>
<td>34.5</td>
<td>35</td>
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<tr>
<td>217896</td>
<td>0.81</td>
<td>17.0</td>
<td>50</td>
</tr>
<tr>
<td>217897</td>
<td>1.28</td>
<td>25.5</td>
<td>45</td>
</tr>
</tbody>
</table>

**TABLE 1**: EL4817 Bulk Stream Sample Results by CSR 1985/86

**EL6078**: Aeromagnetic interpretation of EL6078 outlined two anomalies in the south west of the licence. These did not cover EL24058. The anomalies were not followed up.

**EL7913**: Extensive soil sampling plan was undertaken in the south of the region outlining an anomaly of 400m x 800m. No work was completed over EL24058. Literature review also states that alluvial diggings proximal to EL24058 extend over 300m ‘along or just above the contact between the ferruginous carbonaceous
mudstones of the Upper Koolpin Formation and the uppermost sill of the Zamu Dolerite in the Koolpin Formation. Two kilometers to the west hard rock workings exist on a 10-15 centimetre thick quartz reef. This is within the Gerowie Tuff below the Zamu Dolerite.

**EL9201**: Several Rockchips and soil samples were taken and streams were panned (with est 20-200ppb Au) by GR Biddlecombe. These did not coincide with EL24058. He notes that there are small alluvial workings in the area (NE of Block) and two kilometers to the west there are minor hard rock workings reported in 10-15 centimetre quartz veins.

**Exploration for the period 10th August 2004 to 9th August 2005:** The SPOT image for the Burnside region was subjected to fracture pattern analysis and compared to the location of known prospects in the region of EL24058.

**Exploration for the period 10th August 2005 to 9th August 2007:** was minimal due to the acquisition of the Burnside Joint Venture by GBS Gold Australia Pty Ltd. Work within the region has concentrated on the recommencement of mining in the Brocks Creek district.

Available geological and geochemical data are shown in Figure 3.

Figure 3: EL 24058 data available from the NT Geological Survey
During 2006-07, 141 soil samples were taken and analysed for Au, As, Cu Pb and Zn. Almost all samples assayed were low in gold concentration except sample no EX0137 which gave a value of 1.33 ppm Au. The sample is also high in As, Cu, Pb and Zn. In addition, there are 27 samples which have Au values above 20 ppb.

7.0 EXPLORATION YEAR ENDING 9 AUGUST 2009

In the reporting year 2008-09, company resources focused on the development of Chinese South (Big Pit), Toms Gully, Cosmo Deep and Maud Creek projects with a budget of tens of millions dollars. Chinese South came on-line in April and Toms Gully commenced production in July 2008. At the same time significant progress was made in developing Maud Creek deposit with the targeted production of over 75 000 ounces of gold per year. For this purpose, construction of a specialised circuit developed by GEOCOAT® technology at Union Reefs treatment facility was under consideration. This technology would have the ability to process refractory ore with up to 90% gold recovery. However, on 15 September 2008, GBS Gold Australia was declared under voluntary receivership, and all exploration and mining projects were placed under ‘Care and Maintenance’.

GBS Gold regards EL 224058 highly due to its strategic significance in providing mill feed in the long run. The tenement has very prospective geology and may contain significant gold or base metal resources similar to that of adjacent gold deposits such as North Point or Iron Blow deposits. During the reporting period, only a peripheral review of the tenement was undertaken and work completed during the reporting period included:

- Reconnaissance visit
- Technical review of the tenement
- Planning for up-coming field season
- Report writing and tenement management activities.

This program costed a sum of $ 6756.00 and details are given in attached Appendix 1.
Figure 4: TMI image of the project area
8.0 FORWARD PROGRAMME year ending 9 August 2010

Currently, GBS Gold Australia is under voluntary administration, however, Forbes Manhattan, a Canadian investment bank through its subsidiary Crocodile Gold Australia, has announced to acquire all GBS Gold Australia assets with the intention to commence gold production in an immediate future. Currently, registration of all assets against Crocodile Gold is underway, and it is expected that within a few weeks this process will be completed.

In 2009-10 reporting year, project area will be explored for gold and base metals mineralisation. For this purpose, area identified during this review will undergo soil/rock chip sampling along with geological mapping. If encouraging results received, some RAB/RC drilling may also take place. A minimum budget of $8500.00 is proposed for this program.

9.0 REFERENCES


