GBS Gold Australia Pty Ltd

ANNUAL EXPLORATION REPORT

MOUNT BONNIE GROUP

MLN’s 342, 346, 405, 459, 811, 1033, 1039
MCN’s 504, 505, 3161

FOR PERIOD ENDING 31 December 2008

Pine Creek 1:100 000
PINE CREEK 1:250 000

Titleholder: Territory Goldfields NL

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

Report No: PC/BJV/09-11

Zia U. Bajwah
April 2009
SUMMARY

The Mt Bonnie group of tenements forms one of the significant projects which is located about 145km SE of Darwin NT and 11km ENE of the Hayes Creek road house. Probably, it was discovered during 1870s as part of the gold rush. First mining activity was recorded between 1913 and 1916 but no stopping was carried out. Intermittent mining activity took place from time to time and perhaps the most notable is in 1983, when a total of 110 000 t of ore @7g/t Au and 230 g/t Ag was mined and processed.

The tenement group comprises 108.75 hectares and is situated within Pastoral Lease No. 903, Douglas, held by Tovehead Pty. Ltd. The titles were originally granted to Zapopan N.L. and subsequently transferred to Dominion Gold Operations Pty. Ltd. The ground is now held by Territory Goldfields N.L., which is wholly owned subsidiary of GBS Gold Australia Pty Ltd.

The deposit is hosted by Mt Bonnie Formation that lies within the upper part of the South Alligator Group. Rock types associated with the mine sequence are interbedded shale, siltstone, greywacke, dolomite and minor pebble breccia. A major stratigraphically concordant sill of the Zamu Dolerite underlies the mine sequence. The Mt. Bonnie lode system dips 40 degrees west and is up to 15m thick. Originally a surface gossan could be traced discontinuously for 100m.

During 2007-08 reporting year, drilling campaign commenced in the project area which could have covered at least 14 diamond drill holes. However, on 15 September 2008 the company came under voluntary administration and as a result ended up drilling only one diamond hole. Now the project area is under care and maintenance, and it is expected that under new ownership, drilling campaign will commenced in near future.
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1.0 INTRODUCTION

The Mount Bonnie deposit was probably discovered during the 1870s as part of the gold rush. The outcropping gossan attracted little attention while much of the efforts were diverted to find gold-bearing quartz reefs. First mining activity was recorded between 1913 and 1916 but no stopping was carried out. Intermittent mining activity took place from time to time and perhaps the most notable is in 1983, when a total of 110,000 t of ore @7 g/t Au and 230 g/t Ag was mined and processed.

1.0 LOCATION AND ACCESS

The Mt Bonnie Project is located 145km SE of Darwin NT and 11km ENE of the Hayes Creek road house. Access is via the Stuart Highway, past Hayes Creek and then northwards along the Grove Hill road, turning off right onto the Mt Bonnie Mine Road (Figure 1). The topography of the area comprises a series of low hills with subcrop present on the flanks and ridges. Incised seasonal creek systems form the headwaters of the Margaret River.

2.0 TENEMENT STATUS AND OWNERSHIP

The tenement group totals 108.75 hectares and is located between latitudes 13°32’ south and 13°33’30” south and longitudes 131°32’30” east and 131°34’ east, on the Burrundie 1:50,000 sheet. The titles are situated within Pastoral Lease No. 903, Douglas, held by Tovehead Pty. Ltd. The titles were originally granted to Zapopan N.L. and subsequently transferred to Dominion Gold Operations Pty. Ltd. The ground is now held by Territory Goldfields N.L. and managed by Northern Gold N.L., which is wholly owned subsidiary of GBS Gold Australia Pty Ltd. Details of all mineral titles are given in Table 1.
Figure 1: Tenement Location Map of the Mount Bonnie Project
Table 1: Mount Bonnie Group Tenement Details

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3.0 GEOLOGICAL SETTING

Regional geology is outlined in many publications, notably Ahmad et al. (1994), and Needham and Stuart-Smith (1984), and Stuart-Smith et al. (1987). The tenements are within the Pine Creek Geosyncline, a folded sequence of Lower Proterozoic pelitic and psammitic sediments, with interlayered cherty tuff units. Mafic sills of the Zamu Dolerite (~1.87Ga) intruded lower formations of the South Alligator Group.

Geological setting of the Mt Bonnie base metal and gold mine is shown in Figure 2. The Mt Bonnie base metal and gold mine is situated on the eastern limb of the Margaret Syncline. This is at a similar stratigraphic level to the analogous Iron Blow deposit some 3km to the north. The deposit is hosted by the Mount Bonnie Formation that lies within the upper part of the
South Alligator Group. Rock types associated with the mine sequence are interbedded shale, siltstone, greywacke, dolomite and minor pebble breccia.

**Figure 2:** Geological setting of the Mount Bonnie deposit.

A major stratigraphically concordant sill of the Zamu Dolerite underlies the mine sequence.

At the mine, fold axes trend north-south and are tight. There has been significant hornfelsing of the sequence due to regional and contact metamorphism of the Cullen intrusive event. The Mt. Bonnie lode system dips 40 degrees west and is up to 15m thick. Originally a surface gossan could be traced discontinuously for 100m and comprised limonite, haematite, clay and minor mimetite, duftite, cerussite, coinchalite, malachite, plumbojarosite and scorodite. The upper 70m of the deposit was enriched in gold, silver, lead, bismuth, arsenic, antimony, mercury and tin with a chalcocite-rich zone near the base of oxidation. (Rich 1984) Open pit mining showed that the gossanous lode was the product of two stacked stratabound sulphide lenses. These comprise lenticular pods of massive sulphide with dominant pyrrhotite-sphalerite and subordinate pyrite, galena, chalcopryite, arsenopyrite and tetrahedrite. The gangue minerals are
dominated by chlorite, talc, actinolite and quartz. The principal explorers in the area concluded that Mt. Bonnie and Iron Blow, 3km to the north, are metamorphosed syn-sedimentary sulphide deposits of volcanic exhalative origin.

4.1 MINING HISTORY AND ECONOMIC GEOLOGY

The Mount Bonnie deposit has been mined once seriously in its 135 year history. Development of the deposit began with the establishment of 3 levels between 1913 and 1916 but no stoping was carried out and the mine passed through a succession of owners and operators. In 1972 an option agreement on GML 127B (Later MLNs 1033 and 1039) between the owners WJ Lester and joint venture of Horizon Ventures NL (a wholly owned subsidiary of Horizon Exploration Ltd) and Jingellic Minerals NL together other partners led to the exploration of the Mount Bonnie deposit. The Horizon/ Jingellic joint venture drilled 6 diamond holes into the sulphide zone. As part of this operation a small tonnage was mined from surface outcrops and trucked to the Mount Wells Battery for treatment.

A Peko Wallsend/BP Minerals joint venture completed more sulphide zone drilling in the mid 1970s on GML 163B (later MLN 811). In 1979/80 the Peko/BP joint venture re-sampled the accessible working and later drilled 20 shallow diamond drillhole into the oxide zone. During this period further oxide ore was mined by Jingellic Minerals and was transported to Mount Wells Battery.

In 1983 Mount Bonnie Trust commenced mining operation which was aimed at exploiting the gold and silver rich cap in the oxide zone. This operation mined about 110 000 t of ore @ 7g/t Au and 230 g/t Ag, leaving behind only sulphide zone intact. The sulphide zone has a possible resource of 480 000 t grading 7.67% Zn, 1.5% Pb, 0.4% Cu, 186 g/t Ag and 1.5 g/t Au.

As a base metal deposit, The Mount Bonnie deposit is too small to be stand alone operation. Therefore, it should be considered part of the “bigger picture”, including Iron Blow and any other base metal deposit which can be found on the GBS tenements. At present, these two deposits are the only examples of the submarine volcanogenic exhalative type in the area, which indicate the possibility of find more of the same type. It requires dedicated exploration.
efforts which can be rewarded with further find of sizeable base metal deposit, augmenting the 
tonnage of base metal ore.

5.0 PREVIOUS EXPLORATION

Shaw (2005) has outlined previous exploration at the Mt Bonnie tenements, and this is reported 
here. Exploration and mining of the Mt. Bonnie area has been conducted sporadically since the 
19th century as a lead-zinc-silver prospect. It was first worked in 1902, when Northern 
Territory Goldfields of Australia sank a 15m shaft, which penetrated oxide lead mineralisation. 
Further work was conducted between 1912 and 1917 when the lode developed as an 
underground mine with several vertical and inclined shafts and a 92m adit. No ore was 
produced in this period. The Northern Territory Geological Survey drilled three diamond holes 
between 1916 and 1918, two of which met with lode material. The results are not available. 
Modern exploration commenced in 1973 when Horizon Explorations Limited and Jingellic 
Minerals P/L completed programs including geological mapping, magnetic surveys, 
electromagnetic surveys, dewatering and sampling of the old workings and diamond drilling. 
This work outlined a possible resource of 480,000t grading 7.67% zinc, 0.4% copper, 1.8% 
lead, 186.0g Ag/t and 1.5g Au/t. (Ivanac 1974) In 1975-1978 Geopeko Ltd and BP Minerals 
Ltd carried out a considerable amount of drilling on the sulphide deposits as part of a wider 
evaluation of the Grove Hill region. From 1979-80 the gold potential of the Mt Bonnie field 
was investigated during a period of higher gold prices. Some 20 core holes and old workings 
were sampled for gold in the oxide zone. A reserve of 100,000t @ 8.0g Au/t and 230g Ag/t 
was reported (Rich 1984)

In 1983 the right to mine oxide ores was obtained by Henry and Walker Group Ltd who 
commenced open pit mining. Production of 110,000t of oxide was reported averaging 7.0g 
Au/t and 230g Ag/t up to 1985. (Nicholson and Eupene, 1990) In 1987 Zapopan NL 
commissioned an aeromagnetic survey over the Pine Creek Inlier region. Intense magnetic 
anomalies were outlined for Mt. Bonnie and Iron Blow and several other highs were reported 
in the area. In 1988 Dundas Gold NL completed a stream sediment program focusing on gold 
using bulk cyanide leach (BCL) sampling methods. A number of anomalous values were
recorded in drainages from Mt. Bonnie and Iron Blow. Other elevated values were recorded in drainages flowing NNE.

In 1993 Zapopan NL carried out a geological mapping programme throughout the area. Following acquisition of the tenements in 1995 from Dominion Mining NL, Northern Gold NL conducted literature reviews to assess the value of the property and rank it with its other prospects in the region. The data included geological, geochemical and geophysical reports.

During the mid to late nineties the base metal markets were depressed and consequently the property was ranked lower than gold properties held by the company.

Rehabilitation was completed over MLN 459 in compliance with the conditions of the Mining Act and the Mine Management Act. From April 2002 the Burnside JV has been managing exploration of the Mt Bonnie tenements. The Burnside JV has focused on resource definition of nearby gold resources in the past 3 years. GBS are taking 100% control of the Burnside JV during 2006.

6.0 EXPLORATION FOR YEAR ENDING 31 DECEMBER 2008

Earlier in 2008, a detailed technical review of the MT Bonnie Group of tenement was undertaken with a view to find new economical base metal-gold resource. Gemcom (Surpac) was used to plot previous data and extrapolated into stratigraphic horizons below the previously mined ore body. It succeeded in predicting a new resource and graphical representation is shown in Figure 3.

To test the model presented above, a series of 14 diamond drill holes were planned. Hole collars were surveyed and their location is shown in Figure 4. Newly acquired high resolution IKONOS remote sending data were used at planning stage. Drilling commenced after completion of Iron Blow drilling program. On 9 August 2008, drilling commenced in the project area and completed on 10 August 2009. A total of 116.11 metres were drilled when GBS Gold Australia was declared under voluntary receivership and rest of the drilling program was terminated. Drill hole (MBDH001) could not be logged; however, survey data are presented in attached Appendix 1.
A cursory examination of drill hole shows that it met success in delineating massive base metal-gold mineralisation probably similar to already mined. It is expected that under new ownership, drilling will resume which will proceed to drilling of all holes planned in the project area.

Figure 3: Interpreted lode of Mt Bonnie ore body with new planned drill holes
Figure 4: Locations of planned drill holes in the project area
Other exploration activities during the reporting period consisted of:

- Data integration and validation
- Report preparation
- Survey work
- Tenement management

In 2008-09 exploration activities on the Mt Bonnie tenement have totaled $24998.00 and details are provided in Table 2.

**Table 2: Expenditure details on the Mount Bonnie Project.**

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7.0 FORWARD PROGRAMME 2009

GBS Gold Australia Pty Ltd was declared under voluntary administration on 15 September 2008. Since then, the company has been under care and maintenance mode. Recently, a “Heads of Agreement” has been signed between Forbes and Manhattan (a Canadian investment bank) and company administrators (Ferrier and Hodgson). By virtue of this agreement, Forbes and Manhattan has acquired all GBS Gold Australia assets. However, this transaction is will be subject to certain conditions including Foreign Investment Review Board approval in Australia.

It is expected after the transaction, company assets will be reviewed for exploration and development work. Review and drilling so far conducted has provided significant encouragement to pursue the potential of project area further and complete the drilling program which commenced in 2008. Samples retrieved during drilling will be assayed for gold and base metals. A minimum budget of $15000.00 has been set-a-side for this program.

8.0 REFERENCES


