



Northern Gold NL

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MCNs 3705-3707 and MLN 1103

1998/99 ANNUAL REPORT

to 25th April 1999

Ban Ban (14/3-III) 1:50,000 scale map sheet

Title Holder:- Territory Goldfields N.L.

Managed by:- Northern Gold N.L.

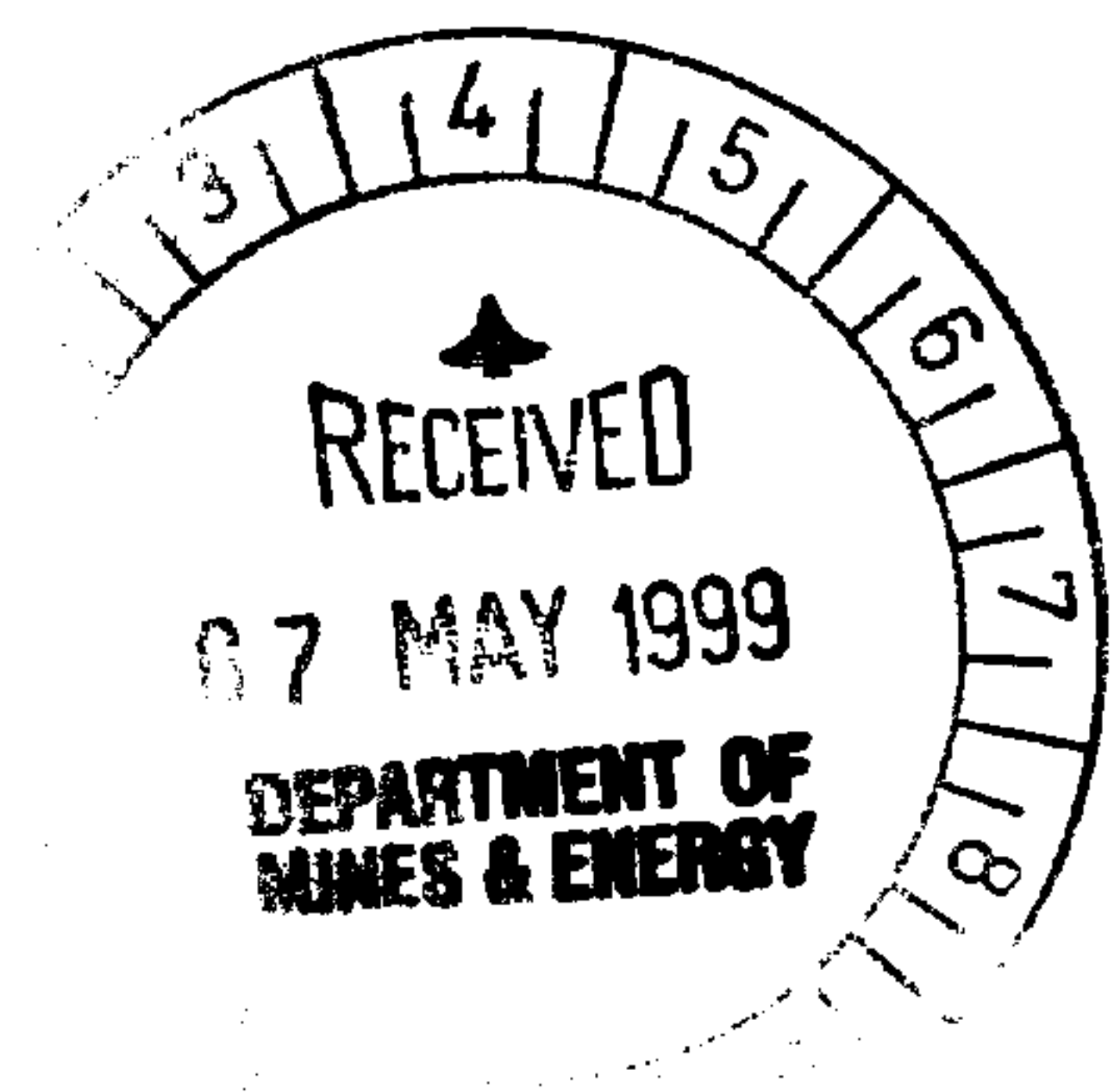
May 1999

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NTDME

Northern Gold N.L., Adelaide River

Northern Gold N.L., Perth Office



CR99/221

SUMMARY

MCN's 3705 - 3707 and MLN 1103 are located approximately 130 kilometres south - east of Darwin and 20 kilometres north - east of Hayes Creek, on the Ban Ban (14/3-III) 1:50,000 scale map sheet.

The area consists of Lower Proterozoic sediments which have been folded and metamorphosed. The stratigraphy comprises units of the Mount Bonnie Formation and the overlying Burrell Creek Formation. Tertiary sands, gravels, silts and younger alluvium associated with the Margaret River drainage system are also present.

Dominion Gold Operations Pty. Ltd. completed geological mapping, soil sampling, costean mapping and sampling, groundwater investigations, aeromagnetic surveying and interpretation, RAB drilling and RC drilling over MLN 1103 and MCN's 3705 - 3707.

MCN's 3705 to 3707 were granted to Dominion Gold Operations Pty. Ltd. on the 17th of October, 1990, for a period of 5 years. The mineral claims were renewed by Northern Gold N.L., on behalf of Territory Goldfields N.L., for a period of five years, expiring on the 31st of December, 2001.

MLN 1103 was granted to Dominion Gold Operations Pty. Ltd. on the 26th of February, 1991, for a period of 25 years.

The mineral claims and lease were acquired by Territory Goldfields N.L., which is managed by Northern Gold N.L., in May, 1995.

During the 1998/99 year of tenure, Northern Gold N.L. completed a review of all data pertaining to the Woolwonga Project Area to establish if there is any further potential for gold resources in this area based on previous work carried out by Dominion Gold Operations Pty. Ltd.

The expenditure during the 1998/99 year of tenure totalled \$4,635.

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1.0 INTRODUCTION

MCN's 3705 - 3707 and MLN 1103 are located approximately 130 kilometres south - east of Darwin and 20 kilometres north - east of Hayes Creek, on the Ban Ban (14/3-III) 1:50,000 scale map sheet. The tenements lie between latitudes 13°23' south and 13°25' south and longitudes 131°31'45" east and 131°34' east (Figure 1). The mineral claims and lease are situated within Perpetual Pastoral Lease No. 1111, Ban Ban Springs, held by Ban Ban Springs Station Pty. Ltd.

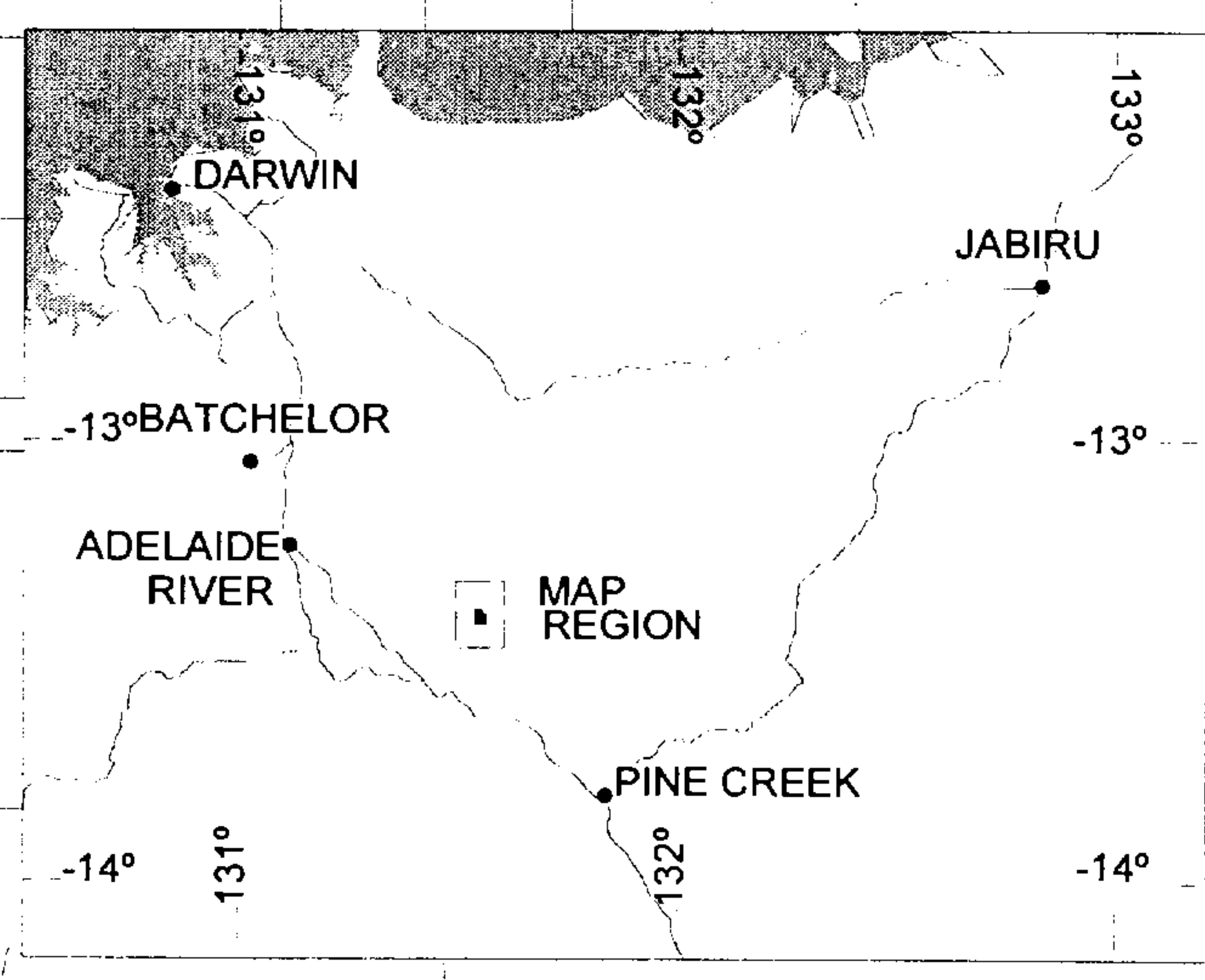
Access to the area is via the Stuart Highway, the Mount Wells Road and Ban Ban Station tracks.

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NORTHERN GOLD N.L.	
MCNs 3705-07 and MLN 1103 TENEMENT LOCATION DIAGRAM	
Date 19/5/1995	Figure 1
Author N Moltram	
Office ADEL RIVER	
Drawing	
Scale 1:50000	Projection: Longitude / Latitude (AGD 66)

00.512

kilometres

2.0 GEOLOGY

2.1 Regional Geology

MCN's 3705 - 3707 and MLN 1103 are situated within the Pine Creek Geosyncline, a tightly to isoclinally folded sequence of mainly pelitic and psammitic (continental to shallow water) Lower Proterozoic sediments with interlayered tuff units. All the lithologies in the area have been metamorphosed mostly to low and in places medium grade metamorphic assemblages. For the purposes of this report the prefix "meta" is implied, but omitted, from rock names and descriptions. The sequence has been intruded by pre-orogenic dolerite sills and a number of late syn-orogenic to post-orogenic Proterozoic granitoids. Largely undeformed Middle and Late Proterozoic, Palaeozoic and Mesozoic strata, as well as Cainozoic sediments and laterite overlie the Pine Creek Geosyncline lithologies.

2.2 Local Geology

The tenements are located centrally within the Pine Creek Basin, and consist of dominantly clastic Lower Proterozoic sediments which have been folded and metamorphosed. The stratigraphy comprises units of the Mount Bonnie Formation and the overlying Burrell Creek Formation.

The dominant outcropping rock types are siltstone, mudstone, greywacke and chert. These rocks outcrop on low rises, often with pisolitic scree. Surrounding the rises are Tertiary sands, gravels, silts and younger alluvium associated with the Margaret River drainage system (Fawcett, 1995).

3.0 PREVIOUS EXPLORATION

Dominion Gold Operations Pty. Ltd. completed geological mapping, soil sampling, costean mapping and sampling, groundwater investigations, aeromagnetic surveying and interpretation, RAB drilling and RC drilling over MLN 1103 and MCNs 3705 - 3707.

During the 1989 field season work at Woolwonga was orientated towards pre-development activities with RAB drill sterilization and groundwater investigations being completed. Exploration over MLN 1103 was limited to core drilling for geotechnical information, metallurgical samples and assay verification of previously drilled RC percussion holes to enable a final pit design to be completed (Dominion, 1989).

The drilling results obtained by Dominion Gold Operations Pty. Ltd. indicated that large tonnage deposits were restricted to the Woolwonga Anticline, but smaller ore bodies occur on the Central and Western Ridges (Dominion, 1989).

4.0 1998/99 WORK COMPLETED

During the 1998/99 year of tenure, Northern Gold N.L. completed a review of all data pertaining to the Woolwonga Project Area to identify further potential for gold resources in this area based on previous work carried out by Dominion Gold Operations Pty. Ltd.

The data review was carried out as a precursor to commencing exploration programs over the entire West Burnside area.

Initially, most of the RC/diamond drilling and RAB drilling was available in digital format, however due to mistakes and corruptions within the data set, it was decided to completely rebuild the database. This involved validating all available data and then compiling all missing data from hard copy reports.

The results of this work yielded a comprehensive digital database which includes 702 RC/diamond holes over the Woolwonga West ridge area and 2,157 RAB drill holes, 136 vacuum drill holes and 103 aircore drill holes covering the Woolwonga tenements.

5.0 1998/99 EXPENDITURE

Expenditure over MCN's 3705 - 3707 and MLN 1103, during the 1998/99 year of tenure, totalled \$4,635. Details of this expenditure are listed below as Table 1.

Table 1 1998/99 Woolwonga Tenement Expenditure

<u>COSTS</u>	<u>AMOUNT</u>
Report Compilation	110
Tenement Management	225
Data Review	85
Casual Wages	110
Salaries	3,335
Subtotal	3,865
Administration @ 20%	770
TOTAL	<u>\$4,635</u>

6.0 1999/2000 PROPOSED WORK PROGRAM

Further to the data compilation work, Northern Gold N.L. will complete detailed aeromagnetic surveys, subject to budgeting constraints, over the entire West Burnside area, covering the Woolwonga area.

An estimate of the cost of this program, over the Woolwonga tenements, is \$4,000.

7.0 REFERENCES

Dominion Mining Limited Annual Report 1989. Company Report by Dominion Mining Limited for company shareholders.

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