



Northern Gold NL

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MCN 2641 and MCN 2642

1999/00 ANNUAL REPORT

to 25th February 2000

Fenton (14/5-I) 1:50,000 scale map sheet

Title Holder:- Northern Gold N.L. & R. Biddlecombe

Managed by:- Northern Gold N.L.

March 2000

Distribution

NTDME

Northern Gold N.L., Adelaide River

Northern Gold N.L., Perth Office

R. Biddlecombe

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CR 2000-0096

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SUMMARY

MCNs 2641 and MCN 2642 are located approximately 7 kilometres southeast of the Cosmo Howley Gold Mine on the Fenton (14/5-I) 1:50,000 scale map sheet.

The area consists of Lower Proterozoic sediments from the Wildman Siltstone with scattered outcrops of Zamu Dolerite. Most of the claim area is covered by soil and laterite.

Northern Gold N.L. previously held the area covered by the claims as EL 6425. Two phases of soil sampling, and rock chip sampling were conducted over the area. During the 1992/93 field season a program of RAB drilling was conducted on MCNs 2641 and 2642. A total of 125 holes were drilled to evaluate the previously defined soil anomaly on the claims. The program identified anomalous mineralisation with assay results of up to 225 ppb Au and 486 ppm As.

MCNs 2641 and 2642 were granted to R. Biddlecombe on the 26th of February 1984, for a period of ten years. Northern Gold N.L. and Camelot Resources N.L. acquired an 85% interest in the claims in 1991. The tenements were renewed by Northern Gold N.L. on the 1st of February 1995, for a period ending on the 8th of October 1997, and again renewed on the 27th of November, 1997, for a period of 5 years, expiring on the 31st of December, 2001. The mineral claims are managed by Northern Gold N.L.

No work was completed over MCN 2641 and MCN 2642 during the 1999/00 field season.

The mineral claims contain anomalous mineralisation, which justifies further follow-up work. Work will include re-evaluation of anomalous areas and possible RAB drilling, to define boundaries of mineralisation.

The expenditure during the 1999/00 year of tenure totalled \$720.

TABLE OF CONTENTS

SUMMARY	2
1.0 INTRODUCTION	4
2.0 GEOLOGY	6
2.1 Regional Geology	6
2.2 Local Geology	6
3.0 PREVIOUS EXPLORATION	7
4.0 1999/00 EXPLORATION COMPLETED	8
5.0 1999/00 EXPENDITURE	8
6.0 2000/01 PROPOSED WORK PROGRAM	8
7.0 REFERENCES	9

LIST OF FIGURES

Figure 1 Tenement Location Diagram

LIST OF TABLES

Table 1 1999/2000 MCN 2641 and MCN 2462 Expenditure

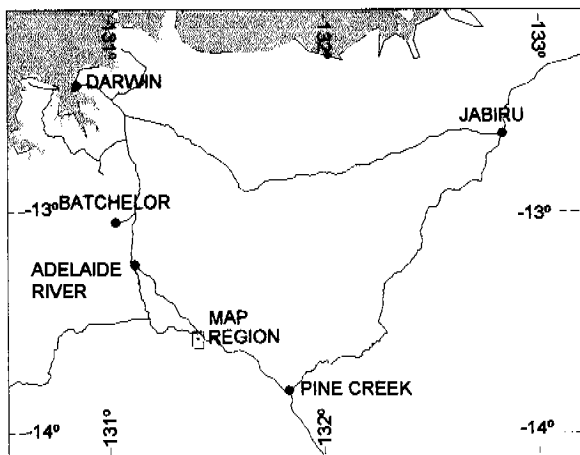
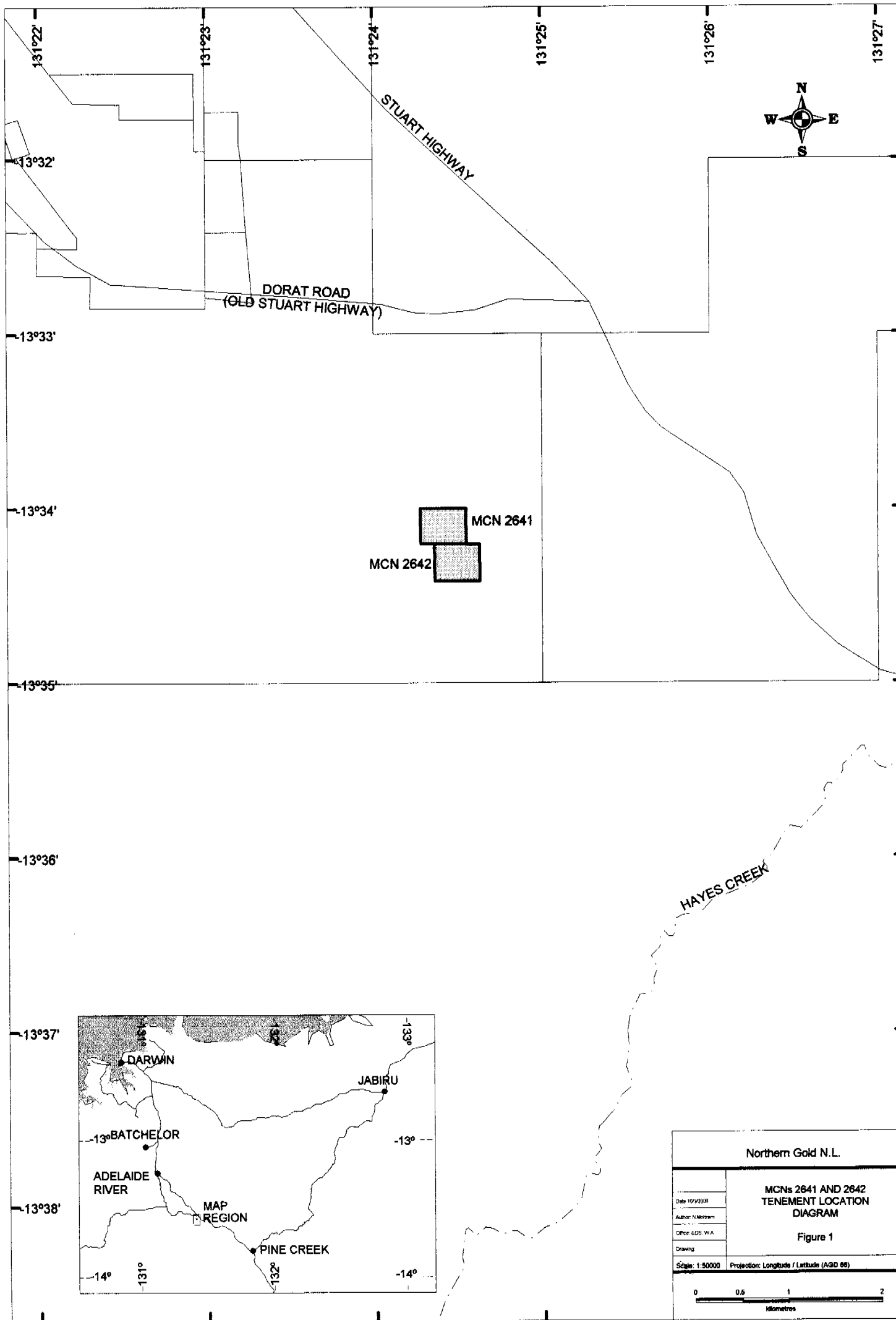
1.0 INTRODUCTION

MCNs 2641 and 2642 are located approximately 7 kilometres southeast of the Cosmo Howley Gold Mine, on the Fenton (14/5-I) 1:50,000 scale map sheet. The mineral claims, which cover an area 40 hectares in size, lie between latitudes 13°34' south and 13°35' south and longitudes 131°24' east and 131°25' east (Figure 1). The tenements are situated within Pastoral Lease No. 903, Douglas, held by Tovehead Pty. Ltd.

Access to the claims is via the Stuart Highway, Dorat Road, and the Douglas Station Road.

MCNs 2641 and 2642 were granted to R. Biddlecombe on the 26th of February 1984, for a period of ten years. Northern Gold N.L. and Camelot Resources N.L. acquired an 85% interest in the claims in 1991. The tenements were renewed by Northern Gold N.L. on the 1st of February 1995, for a period ending on the 8th of October 1997, and again renewed on the 27th of November, 1997, for a period of 5 years, expiring on the 31st of December, 2001. The mineral claims are managed by Northern Gold N.L.

The expenditure during the 1999/00 field season totalled \$720.



Northern Gold N.L.	
MCNs 2641 AND 2642 TENEMENT LOCATION DIAGRAM	
Figure 1	
Date: 10/12/00	
Author: N. Mottram	
Office: EDS, W.A.	
Drawing:	
Scale: 1:50000	Projection: Longitude / Latitude (AGD 86)
0 0.5 1 2 kilometres	

2.0 GEOLOGY

2.1 Regional Geology

MCNs 2641 and 2642 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

MCNs 2641 and 2642 lie to the south of the Cosmo Howley Gold Mine. The area consists of Lower Proterozoic sediments from the Wildman Siltstone with scattered outcrops of Zamu Dolerite. Most of the claim area is covered by soil and laterite. A number of quartz veins crop out immediately to the west of the Douglas Homestead Road, and are associated with quartz float (Socic, 1997).

3.0 PREVIOUS EXPLORATION

Northern Gold N.L. previously held the area covered by the mineral claims as EL 6425. Two phases of soil sampling, and rock chip sampling were conducted over the area. These results are reported in the annual reports for EL 6425, and MCNs 2641 - 2644 (Monti and Stokes, 1990, and Stokes, 1991).

Northern Gold N.L. completed RAB drilling of the gold soil anomaly, defined by previous work over MCNs 2641 and 2642, to test for bedrock mineralisation. Holes were drilled on a 20 metre by 100 metre grid over the soil anomaly. All holes were drilled vertically to identifiable bedrock, or to depth of refusal, logged and sampled. Sampling of the bedrock/soil transition zone was undertaken to identify any Au dispersion haloes associated with bedrock mineralisation. A total of 125 holes for 390 metres were drilled, from which 125 samples were collected and sent to Assaycorp, in Pine Creek, for analysis of Au, using low level fire assay, and As (Stokes and Cooper, 1993).

The 1992/93 RAB drilling program over MCNs 2641 and 2642 identified bedrock mineralisation with assay results of up to 225 ppb Au and 496 ppm As (Stokes and Cooper, 1993).

4.0 1999/00 EXPLORATION COMPLETED

No work was completed over MCN 2641 and MCN 2642 during the 1999/00 field season.

5.0 1999/00 EXPENDITURE

Expenditure over MCN 2641 and MCN 2642, during the 1999/00 year of tenure, totalled \$720. Details of this expenditure are listed below in Table 1.

Table 1 1999/00 MCN 2641 and MCN 2642 Expenditure

<u>COSTS</u>	<u>AMOUNT</u>
Report Compilation	70
Tenement Management	130
Data Review	90
Stationary & Office Expenses	10
Salaries	300
Subtotal	600
Adminisration @ 20%	120
TOTAL	<u>\$720</u>

6.0 2000/01 PROPOSED WORK PROGRAM

The mineral claims contain anomalous mineralisation, which justifies further follow-up work. Work will include re-evaluation of anomalous areas and possible RAB drilling, to define boundaries of mineralisation.

An estimation of the cost of these programs is \$2,000.

7.0 REFERENCES

- MONTI, R. and STOKES, M., (1990). EL 6425, Annual Report to 7th May 1990. Unpublished report by Northern Gold N.L. for the Northern Territory Department of Mines and Energy.
- MOTTRAM, N., (1998). MCN 2641 and MCN 2642, 1997/98 Annual Report to 25th February 1998. Unpublished report by Northern Gold N.L. for the Northern Territory Department of Mines and Energy.
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- SOCIC, N., (1997). MCNs 2641, 2642 and 4184, 1996/97 Annual Report to the 25th April 1997. Unpublished report by Northern Gold N.L. for the Northern Territory Department of Mines and Energy.
- STOKES, M., (1991). EL 6425, Final Report to 7th May 1991. Unpublished report by Northern Gold N.L. for the Northern Territory Department of Mines and Energy.
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