EXPLORATION LICENCE 10322

GREAT NORTHERN

ANNUAL REPORT ON EXPLORATION ACTIVITIES FOR THE THIRD YEAR OF TENURE – 2004/2005

Prepared for GA Clarke & BJ Briggs, By GA Clarke 5th December 2005 CR 2005 Ø52 I

RECORDED ON COMPUTER
Date: / <u>タ</u> / <i>! シ / 〇</i> 灯 By:

Dept. of Primary Industry Fisheries and Mines

0 9 DEC 2005

Received: Titles Division Minerals & Energy Group

CONTENTS

- 1. Introduction
- 2. Geology, Mineralisation and past Gold Production
- 3. Previous Exploration Activities
- 4. Exploration carried out in Year Three of the Licence
- 5. Year Three expenditures
- 6. Proposals for Exploration work during Year Four

Table 1 Summary of Post 1980 Exploration

Figure 1 Locality Map

Figure 2 Tenement Map

1. INTRODUCTION.

Exploration Licence 10322 occupies two one-minute graticular blocks, an area of 6.7 square kilometers, situated in the Batchelor 1:100,000 sheet area. Excluded from the northern part are Mineral Claims which cover old workings of the Great Northern mine. Figures 1 & 2 show the location and boundaries of the tenement. Title was granted to Gary Anthony Clark and Brian John Briggs for a three year term commencing 18th November 2002.

The area lies approximately 35 kilometres east of Adelaide River township, and is accessed by various station tracks via Mt Ringwood Station homestead in the north or the old Goodall minesite in the southwest; these tracks may be impassable during monsoonal weather. The topography of the area is subdued, except around the old mining area in the north, consisting of a mixture of isolated low hills and rises interspersed with alluviated areas leading down to McCallum Creek to the east. Vegetation is open savannah woodlands, with a grassy understory, typical of this part of the Top End.

2. GEOLOGY, MINERALISATION AND PAST GOLD PRODUCTION.

The general geology of the area is shown on the published 1:100,000 scale geological map Batchelor and Hayes Creek Region (BMR 1985); the relevant portion of this map is reproduced in Figure 3.

The entire Licence area is underlain by sedimentary rocks assigned to the Burrell Creek Formation, of the Finniss River Group, in the upper section of the Early Proterozoic Pine Creek Orogen stratigraphic sequence. The sediments comprise a dominantly greywacke/mudstone sequence of turbidite facies. These rocks have been subjected to greenschist facies regional metamorphism, locally with a thermal metamorphic overprint close to granite contacts, and are now represented by slates and metagreywackes showing a variable degree of slaty cleavage depending on original lithology. The meta-sediments are intruded by pre-metamorphic dolerite and lamprophyre dykes.

The structure consists of north to northeast trending, moderately tight symmetrical folds, having gentle northerly plunges. Four major anticlinal trends are recognized in the district and are important in relation to the localisation of gold mineralization; these include the Great Northern, the Great Western, the Goodall and the Star of the North trends.

Historical gold workings at Great Northern, Great Western and Star of the North are reported to have produced 112 kg of gold between 1896 and 1920, from small pits and shafts. The gold was found in concordant quartz veins and saddle reefs along the hingelines of the north-plunging anticlines. At Great Northern auriferous saddle reefs, up to 3m thick, occur over a strike length of at least 2000m.

The Goodall open pit of Western Mining, located some five kilometers west of Great Northern, produced 4,095 kg of gold, from ore with an average head grade of 1.99 g/t Au, between 1988 and 1993. The deposit consisted of a stockwork of thin conformable and cross-cutting quartz veins, and had overall dimensions of 750 x 50m. The ore zone was located some 60m to the east of a major anticlinal axis (the Howley anticline).

3. PREVIOUS EXPLORATION ACTIVITIES

In recent times serious gold exploration in this part of the Pine Creek Field commenced in 1980 when Exploration Licences 2361 and 2362 were explored by WR Grace Australia and Western Mining Corporation under the Mt Ringwood Joint Venture. Initial programs of helicopter reconnaissance and rock chip sampling discovered a number of gold anomalies, including the B1 anomaly which eventually became the Goodall gold mine. Exploration continued up to the early 1990's and included regional soil geochemical sampling and geological mapping, together with detailed mineralization was identified outside the Goodall project area.

Western Mining's work stimulated intensive gold exploration in the surrounding district by many other companies through to 2000. Most work concentrated on exploring poorly exposed or alluvial areas, which had not been exhaustively tested by Western Mining, utilizing mainly reconnaissance RAB drilling, soil and drainage geochemical sampling and a variety of remote sensing techniques. Some of this work overlapped the area of EL10322, but no anomalies of significance were discovered. Post 1980 company exploration is summarized in Table 1.

During the first two years of the current Exploration Licence three good prospects have been discovered to the south of the main Great Northern workings. These areas are known as Backhoe Hill, Carl's Hill and Golden Nob. All were discovered by metal detector and followed up with soil sampling and rock chip sampling.

4. EXPLORATION WORK CARRIED OUT IN YEAR THREE OF THE LICENCE

At Carl's Hill two soil samples were taken, one from the base on the eastern side assayed 0.59 PPM gold, the other half way up the hill assayed 0.32 PPM gold. Rock samples from a reef were sent for assay but results were not known at the time of writing this report.

A trench was dug on the flat below Backhoe Hill. Samples taken from bottom of trench were disappointing. Four samples were taken with all similar results ranging from 0.09 PPM – 0.11 PPM gold. Trench was backfilled. A reef was discovered at the Northern End of Backhoe Hill using a metal detector. A trench was hand dug along the reef for approximately 2-3 metres for sampling. Free visible gold was found in the reef by the use of metal detector. A bag of rock from the reef that did not register with the metal detector was sent for assay. Results were 263. PPM gold further rock sampling is needed for a more accurate assessment of reef.

A trench was dug across Chinese diggings out on the flat north west of Backhoe Hill. Samples taken and sent for assay were poor. Trench was back filled.

5. YEAR THREE EXPENDITURES

Expenditures made on exploration work during the third year of tenure are estimated as follows:

Transportation and hire of backhoe	2300
Toyota Land cruiser 10 days	750
Fuel for Landcruiser and Backhoe	900
Labour 10 days	2000
Camping provisions and survey consumables	300
Geological services	250
TOTAL	6500

6. PROPOSALS FOR EXPLORATION DURING YEAR FOUR OF THE LICENCE

Year four will be spent further exploring the extent of the reef discovered on Backhoe Fill. Further rock sampling at Golden Nob and Carl's Hill, as well as exploring the flats for possible alluvial.

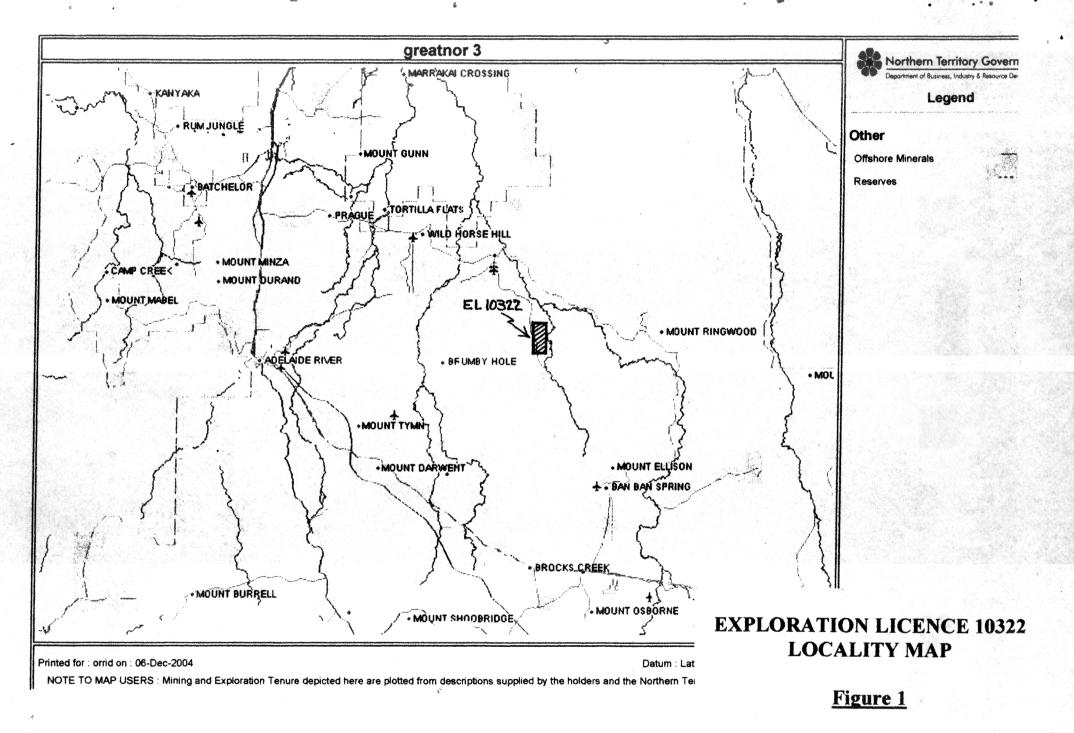
It is estimated that the expenditures on this work will amount to \$6000.

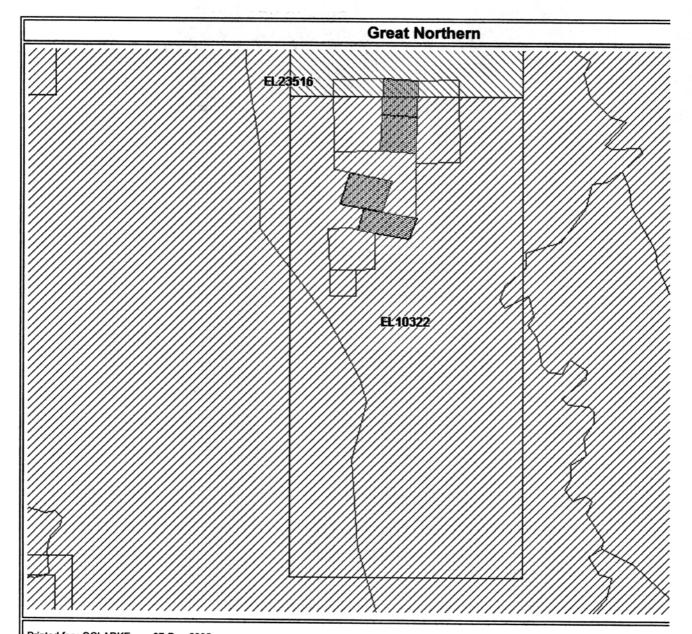
TABLE 1 – SUMMARY OF POST-1980 EXPLORATION.

경기를 하지 않는 하면 하나 되는 것이다.				
TENEMENT	TITLEHOLDER	LOCATION	EXPLORATION ACTIVITIES	RESULTS OBTAINED
EL2362 1983/89	Western Mining	Area covers Star of the North, Great Northern, Great Western.	Regional helicopter reconnaissance and rock chip sampling (1980/81); detailed grid survey, mapping and surface sampling of anomalies (1982/84), soil geochemistry and costeaning (1985).	Auriferous quartz reefs and and stockworks at Johns Hill, and C3, C4 and C5 anomalies in Overlap with EL23516.
EL4217 1983/89	Douglas, Zapopan, Nobelex.	North of Goodall	Landsat and air photo studies, field reconnaissance and rock-chip sampling, 100 RAB drillholes, 67 reaching bedrock.	Two holes struck anomalous gold on inferred projection of Goodall anticlinal axis.
EL5011 1988/89	White Mining, Zapopan.	Margaret River flats E of Great Western	Reconnaissance soil sampling of outcrop areas, and one traverse of RAB drilling of alluvial area.	No anomalies detected.
EL's 4218 & 4220B 1983/89	White Mining, Zapopan & Nobelex	South of Great Western	Reconnaissance geology and rock chip sampling, and stream sediment sampling.	No encouraging results.
EL5318 A 1987/91	Western Mining	John's Hill area.	At C3 anomaly three diamond drill holes tested north-dipping quartz veins in a 50m wide meta-dolerite N-S dyke.	Veins too narrow and wide- Spaced (20m) for economic mineralisation; grades up to 3.38g/t Au, widths to 0.8m.
			At C4 anomaly five 60m RC holes tested saddle reefs and stockworks mainly on east anticlinal limb.	Several narrow gold int'cepts best 5.2g/t Au over 2.0m.
EL5313 1988/91	Oceania, Golden Plateau Pegasus	S &SE of Goodall	Aeromagnetics, geological mapping, rock chip and drainage geochem sampling, with follow up detailed geology, sampling, trenching and RC drilling of prospects.	Follow up of magnetic and rock chip anomalies at Three Rest Hill, Copper Pits and Hallelujah prospects did not Indicate economic mineral'n.

TABLE 1 CONTINUED.

EL8139 1993/95	Territory Goldfields	W &SW of Great	Aeromagnetic interpretation, LAG geochemical sampling, and 23	No results for follow up.
EL9167	Northern Gold	Northern. Between Star of the	RAB drillholes for 97m. Regional soil sampling on 400m by 100m grid, on 19 lines over	No follow up reported.
1995/97	Camelot.	North and Great W'n.	mainly alluvial areas, for total of 431 samples.	To Islien up reported.
EL8504 1995/97	Northern Gold Dominion	West of Great North'n.	Area is 80% black soil plain; RAB drilled on 1600mX200m grid for 117m in 18 holes with analyses for Au, Ag and base metals.	No significant anomalies.
EL7090 1998	NT Gold P/L.	Great Northern.	Survey with metal detectors in the vicinity of the historical workings.	Several small quartz veins with coarse to nuggety gold were found and pegged under Mineral Claims.
EL9306 1995/99	Markaranka, Agricola Gold.	W and SW of Great Northern.	Limited rock chip sampling.	Anomalies too small to warrant further work.
EL9667 1996/2000	Markaranka,	S of Great North'n.	No field exploration done.	
EL9122 1995/2001	Northern Gold, Dominion.	Margaret River flats E of McCallum Creek.	Regional soil sampling on 100mX400m grid, comprising 12 traverse and 241 samples analysed for Au, Ag, As and base metals. Several phases of infill and follow up soil sampling were done.	All anomalies were very low order, not warranting further Work.





Printed for : GCLARKE on : 07-Dec-2005

D

NOTE TO MAP USERS : Mining and Exploration Tenure depicted here are plotted from descriptions supplied by the holders and the Northern inconsistancies may occur between some information.