M I N E R A L  C L A I M  C 1 3 5 0
NEW MOON

FINAL REPORT
19 September 1995 – 31 December 2003

LICENSEE:
SANTEXCO PTY LTD
A.B.N. 520 029 102 96

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SUMMARY

This report records the exploration work carried out on the Mineral Claim C1350 New Moon, during its 8-year term from the 19th September 1995 to the 31st December 2003.

Mineral Claim C1350 is located approximately 18km north east of the Tennant Creek township. Mineral Claim C1350 was granted Tennant Creek Operations Pty Ltd on the 19th September 1995 to cover the expired Mineral Claim C181. The Claim covers the magnetic anomaly Explorer 196 over the historic New Moon mine. MC C1350 was explored as part of the Central Joint Venture.

Normady conducted a geological evaluation, site inspection, and an MMI survey. The reported results of the survey were inconclusive. There was no further follow up exploration to the results from the MMI survey.


Giants Reef assessed the exploration potential of MC C1350. Giants Reef recognised that significant exploration potential at Explorer 196 remains, however the anomaly still requires a great deal of work. As part of the rationalisation program the Claim was recommended for surrender to allow exploration over Explorer 196 to be conducted under Giants Reefs granted Exploration Licence 9930.

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## FIGURES

1. Location of Mineral Claim C1350
1. **INTRODUCTION**

This report records the exploration work carried out on the Mineral Claim C1350 *New Moon*, during its 8-year term from the 19th September 1995 to the 31st December 2003.

Mineral Claim C1350 is located approximately 18km north east of the Tennant Creek township. MC C1350 covers the historic New Moon mine and has previously been explored and reported as part of the Central Joint Venture Group.

2. **LOCATION**

MC C1350 is located approximately 18km north of the Tennant Creek township. The most direct route to MC C1350 is by turning off the Stuart Highway a few hundred metres north of the old Tennant Creek Overland Telegraph Station, and continuing east along a dirt track which runs through the Claim area. The Claim is located on the Tennant Creek 1:100,000 scale map sheet (5758).

The climate of the Tennant Creek district is mild and dry through most of the autumn to spring months. The summer period is hot with seasonal heavy rainfall between January and March making access within the Claim very difficult during these periods.

Figure 1 shows the Mineral Claim and surrounding tenements during the final year of tenure.

3. **TENURE**

Mineral Claim C1350 was granted to Tennant Creek Operations Pty Ltd (a subsidiary of Normandy Gold Pty Ltd) for a 4-year term on the 19th September 1995 to expire on the 31st December 1999. The Claim had an area of 20 hectares and was centred on the historic New Moon mine over the Explorer 196 magnetic anomaly.

MC C1350 was applied for to cover the expired MC C181, which came under the Central Joint Venture. Upon grant, MC C1350 was included in the Central Joint Venture tenement package. In 1995 Normandy Gold Pty Ltd held 70% of the Joint Venture tenements (including MC C1350), and were acting as operator and manager. Tennant Creek Holdings Pty Ltd held 20% and were providing exploration funding, and NFM held 10% ownership.

Tennant Creek Operations Pty Ltd subsequently changed its name to Normandy Tennant Creek Pty Ltd (NTC). MC C1350 was renewed by NTC in December 1999 for a further 4-year term.

In June 2001, Giants Reef Mining Limited purchased Normandy Tennant Creek Pty Ltd and all its assets including MC C1350. After the purchase, NTC was re-named Santexco Pty Ltd (Santexco), and is now a wholly-owned subsidiary of Giants Reef Mining Limited.

MC C1350 falls on NT Portion 408, Perpetual Pastoral Lease 946, Phillip Creek Station.

Until January 2003, MC C1350 came under the Central Joint Venture 1 (CJV1), which covered the Chariot gold deposit and a number of other tenements to the west of Tennant Creek. The Joint Venture was between Giants Reef, (managers, holding 57% equity), Sons of Gwalia (replacing Tennant Creek Holdings Pty Ltd 33%) and Newmont NFM (formerly Normandy NFM; 10%). Giants Reef purchased Sons of Gwalia and Newmont NFM’s (43%) Joint Venture assets in January 2003, and became the sole owner of the CJV1 project, including MC C1350.

Mineral Claim C1350 was not renewed by Santexco at the end of its second term, and was allowed to expire on the 31st December 2003.
4. **GEOLOGY**

4.1 Regional Geology

Papers contained in AusIMM Monograph 14 (Geology of the Mineral Deposits of Australia and Papua New Guinea, Volume 1, pp. 829-861) give a good introduction to the regional geology and styles of gold-copper mineralisation of the area.

More recently, the regional geology of the Tennant Creek Inlier has been described in the 1:250,000 Tennant Creek geological map and its explanatory notes, published by the Northern Territory Geological Survey in 1999.

4.2 Local Geology

The geology in the Claim areas consists of scattered outcrops of weathered siltstone and greywacke of the Palaeoproterozoic Warramunga Formation, which most likely underlies the non-outcrop areas of the Licence areas. The Claim encloses the historic New Moon mine (80t @5g/t Au) which is a quartz-haematite-magnetite outcrop in a small hillock of Warramunga sediments.

Vegetation is sparse with mainly native grass, spinifex, mulga and snappy gum covering the bulk of the prospect.

5. **WORK DONE DURING THE TERM**

5.1 First Term 19 September 1995 to 31 December 1999

Mineral Claim C1350 was pegged to replace the expiring MC C181 in 1995, which was also part of the CJV1. During the term of MC C181 between 1985 and 1995 North Flinders Mines and Posgold aggressively explored the area using surveying, mapping, ground magnetics, geophysical modelling vacuum, RAB and RC drilling.

In the first term Normandy conducted an evaluation of all previous exploration data over MC C1350. The Explorer 196 magnetic anomaly over the New Moon mine within MC C1350 was chosen for a Mobil Metal Ion (MMI) geochemical survey. The objective of the MMI survey was to assess the soils over Explorer 196 magnetic anomaly to determine whether there was anomalous Au, Cu, Bi and other indicator ions that may suggest the magnetic anomaly is Au/Cu/Bi mineralised. The samples were taken over separate 50m spaced lines over 100m intervals. A total of 38 samples were collected over MC C1350 an surrounding tenure. The results of the program was reported by Normandy as inconclusive. There was no reported follow up exploration to the results from the MMI survey.

An environmental audit covering all historical disturbances in the Tennant Creek mineral field was undertaken by NTC in 1998. The audit located and detailed all occurrences of substantial disturbance including mine workings, tracks, dumps, drillholes, excavations, buildings and rubbish. The survey documented the historic New Moon workings within the Mineral Claim.

In May 1999 NFM were appointed as operators of the Central Joint Venture tenements, including MC 1350. NFM conducted no on-ground work over the Claim.


5.2 Second Term 1 January 2000 to 31 December 2003

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During the 1999/2000 year of tenure, Northern Gold N.L., as manager of the Mineral Claim completed evaluation studies and data compilation of the Tennant Creek region, including MC C1350.


In September 2002 an internal review of the Giants Reef tenement portfolio and a classification of exploration opportunities included a detailed assessment of all the tenements purchased from NTC, including the Central Joint Venture tenements.

Giants Reef recognised that significant exploration potential at Explorer 196 remains, however will require a great deal of work. Giants Reef noted that the prospect ranked high on the NTC list, however is located a long way east of Tennant Creek. As part of the a rationalisation program the Claim was recommended for surrender to allow exploration over Explorer 196 to be conducted under Giants Reefs granted Exploration Licence 9930.


6. REHABILITATION

An environmental audit covering all historical disturbances in the Tennant Creek mineral field was undertaken by Normandy in 1998.

No substantial disturbance occurred over the Claim during the 8-year term, and hence no rehabilitation was required.
7. CONCLUSIONS

Mineral Claim C1350 was granted Tennant Creek Operations Pty Ltd on the 19th September 1995 to cover the expired Mineral Claim C181. The Claim covers the magnetic anomaly Explorer 196 over the historic New Moon mine. MC C1350 was explored as part of the Central Joint Venture.

Normady conducted a geological evaluation, site inspection, and an MMI survey. The reported results of the survey were inconclusive. There was no further follow up exploration to the results from the MMI survey.


Giants Reef assessed the exploration potential of MC C1350. Giants Reef recognised that significant exploration potential at Explorer 196 remains, however the anomaly still requires a great deal of work. As part of the rationalisation program the Claim was recommended for surrender to allow exploration over Explorer 196 to be conducted under Giants Reefs granted Exploration Licence 9930.


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