NT EXPLORATION LICENCE 5210

REPORT OF EXPLORATION ACTIVITIES
27 August 1987 - 26 August 1988
(YEAR ONE)

LICENCEES: JOHN ROBERT BRUCE
JOHN HAWKES MULES

MAP SHEETS: 1:250,000 ALICE SPRINGS SF 53-14
1:100,000 RIDDOCH 5851

AUTHOR: Burton Murrell, PhD, MAustIMM, MAIG.
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1. SUMMARY

The licence area was covered by new 1:25,000 scale photography, a detailed airbourne geophysical survey and a stream sediment sampling program. A number of anomalies generated will be followed up in Year Two. Holes totalling 365m were drilled along the Wheal Mundi Fault seeking water and signs of mineralization. No mineralization was intersected but a production bore with 150 cu m/d capacity was drilled adjacent to hole 5 by White Range Gold NL. The expenditure commitment was met.

2. INTRODUCTION

The licence area covers part of the complex basement area known as the Arunta Complex. Units mapped on the 1:100,000 scale map of the area are the Atnarpa Igneus Complex and Cavenagh Metamorphics. A number of small quartz-vein gold workings occur in the area.

3. WORK UNDERTAKEN

3.1 Prospecting and access.

An interesting copper/gold occurrence was located near the historic "Fat Dingo" workings by J.R. Bruce. The copper occurs as bornite in fractures in a zircon rich ironstone, with a small amount of free gold in the ironstone.

Access to the area was improved in co-operation with Mr Donald Cavenagh, Ambalindum Station by upgrading the pad from Mt Chapman
to White Range for 6km along the Wheal Mundi Fault to allow vehicular access.

3.2 Exploration geochemistry.
Forty-eight stream sediment samples were collected from the sites shown on Plan 1 and the results listed in Appendix 1. Samples were collected from the overbank silts at sites representing catchments in the order of 0.5 km² to 5.0 km². The clay fraction (-10 um) was separated for assay and the remainder of the -2mm material panned and observed for particulate gold only. Pan concentrates have been stored for possible future study.

3.3 Drilling - Wheal Mundi Fault Zone.
Five rotary percussion holes totalling 365m were drilled along the fault zone as shown on Plan 2 as water bores and to test for mineralized zones along the Wheal Mundi Fault. The logs are included as Appendix 2. The zone of apparent silicification at the southern end of the zone was shown to be a paleochannel filled with silicified quartzite shed from White Range and now upstanding due to landscape inversion. No mineralization was intersected during this drilling so no samples were assayed.

3.4 Regional geophysical survey.
This EL was covered by a regional airbourne survey conducted for us by Austirex in February 1988. Flight lines were 250m apart and were flown at a mean terrain clearance of 60m. Magnetics, thorium, uranium, potassium and total count radiometrics were recorded. None of the anomalies on this EL have been recovered at this stage. Results from this survey will be reported in Year Two.

3.5 Aerial photography.
New 1:25,000 scale colour aerial photography covering this area was flown as part of a joint project with CCNT and NTDME.

4. EXPENDITURE
The following figures were prepared from our records in Melbourne by John S. Kitchen and can be substantiated.

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5. LIST OF PLANS

Plan 1. Catchments sampled, sample sites and anomalous metal values (derived from the regional results) EL5210.

Plan 2. Drill hole locations from water-drilling plan.

Plan 3. Plan of licence area.

6. APPENDICES

Appendix 1. Assays of clay fraction, stream sediments

Appendix 2. Logs of drill holes, Wheal Mundi Fault.
APPENDIX 1.
### APPENDIX 1.

AAS and ICP analyses of the clay fraction of stream sediment samples, EL 5210.

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APPENDIX 2.

Logs of holes WR1, WR5, WR12, WR14, WR15 and WR16.
APPENDIX 2
BOROLE COMPLETION DATA
EXPLORATION HOLE

BOROLE COMPLETION DATA: WR1

LOCATION: Approximately 2 km south east of mine site (Figure 2)

HEIGH OF COLLAR ABOVE GROUND: -

STATUS: Exploration hole (abandoned)

DATE COMPLETED: 31/5/88

DRILLING CONTRACTOR: Gorey and Cole Drillers

DRILLING RIG: Ingersoll-Rand TH60

DRILLING METHOD: Air hammer

DEPTH DRILLED: 37 m

DIAMETER DRILLED: 0 - 7 m 254 mm diameter hole, hammer
7 - 37 m 140 mm diameter hole, hammer

CASING: -

SLOTS: -

WATER LEVEL: -

AIRLIFT YIELD: Dry

WATER SALINITY: -

LITHOLOGY:
(m)

0 - 1 ALLUVIUM - Red brown white. White quartzite fragments.

1 - 6 QUARTZITE - Green brown weathered and iron stained fractured quartzite.

6 - 9 QUARTZITE - Light green cream fissile quartzite.

9 - 15 QUARTZITE - Light brown. Stained due to iron oxides. Fresh quartzite.

15 - 37 QUARTZITE - White fine-grained. Fresh massive
APPENDIX 2
BORE COMPLETION DATA
OBSERVATION BORE

BORE COMPLETION DATA: WR5

LOCATION:  Approx. 1.5 km south east of mine site. 700 m from mine site turn off along northerly track to Arltunga (Figure 2)

HEIGHT OF COLLAR ABOVE GROUND:  0.60 m

STATUS:  Observation bore

DATE COMPLETED:  2/6/88

DRILLING CONTRACTOR:  Gerey and Cole Drillers

DRILLING RIG:  Ingersoll-Rand TH60

DRILLING METHOD:  Air rotary, air hammer

DEPTH DRILLED:  65 m

DIAMETER DRILLED:  0 - 3 m 200 mm diameter hole, finger bit
                   3 - 65 m 140 mm diameter hole, hammer

CASING:  +0.60 - 2.60 m 140 mm ID 160 mm OD UPVC surface casing
         +0.60 - 60.75 m 50 mm ID 60 mm OD UPVC Class 9

SLOTS:  13.95 - 60.75 m

WATER LEVEL:  8.24 m below ground level

AIRLIFT YIELD:  125 cu m/d

WATER SALINITY:  Field determination - 1070 mg/l TDS (by conductivity)

LITHOLOGY:
(m)
0 - 3  SCHIST  - Light brown/green ferruginous chlorite schist.
3 - 12 SCHIST  - Light green, fine grained. Very slightly weathered.
12 - 30 SCHIST  - Grey to dark grey, fine grained, finely bedded.
30 - 65 GRANITIC GNEISS  - Grey cream, medium grained. Fresh.
BORE COMPLETION DATA: WR12

LOCATION: Approximately 1.5 km south east of mine site (Figure 2)

HEIGHT OF COLLAR ABOVE GROUND: -

STATUS: Exploration hole (abandoned)

DATE COMPLETED: 11/6/88

DRILLING CONTRACTOR: Gorey and Cole Drillers

DRILLING RIG: Ingersoll-Rand TH60

DRILLING METHOD: Air hammer

DEPTH DRILLED: 46 m

DIAMETER DRILLED: 0 - 5 m 200 mm diameter hole, hammer
5 - 46 m 140 mm diameter hole, hammer

CASING: -

SLOTS: -

WATER LEVEL: -

AIRLIFT YIELD: Dry

WATER SALINITY: -

LITHOLOGY:

(m)
0 - 1 ALLUVIUM - Brown red, sandy silt and minor quartzite.
1 - 6 CHLORITE SCHIST - Khaki green, moderately weathered, fine grained.
6 - 9 CHLORITE SCHIST - Slightly weathered.
9 - 32 QUARTZ FELDSPAR CHLORITE SCHIST - Grey cream, medium grained fresh. Well foliated, becoming more chlorite rich on contact gone from 30 - 32.
32 - 46 QUARTZITE - Cream white, fresh. Very fine grained finely banded.
APPENDIX 2
BORE COMPLETION DATA
EXPLORATION HOLE

BORE COMPLETION DATA: WR14

LOCATION: Approximately 2 km east of mine site (Figure 2)

HEIGHT OF COLLAR ABOVE GROUND:

STATUS: Exploration hole (abandoned)

DATE COMPLETED: 12/6/88

DRILLING CONTRACTOR: Gorey and Cole Drillers

DRILLING RIG: Ingersoll-Rand TH60

DRILLING METHOD: Air hammer

DEPTH DRILLED: 61 m

DIAMETER DRILLED: 0 - 5 m 200 mm diameter hole, hammer
5 - 61 m 140 mm diameter hole, hammer

CASING:

SLOTS:

WATER LEVEL:

AIRLIFT YIELD: Dry

WATER SALINITY:

LITHOLOGY:

(m)
0 - 6 SCHIST - Light brown highly ferruginised, highly weathered chloritic schist.

6 - 9 SCHIST/QUARTZITE - Light brown cream partially ferruginised slightly weathered.

9 - 27 SCHIST - Grey, fresh fine grained with quartz feldspar and chlorite.

27 - 45 GRANODIORITE - Dark grey, fine to medium grained. Fresh. Massive.

45 - 72 SCHIST - Light grey, fine grained. Fresh. Massive.
APPENDIX 2
BORE COMPLETION DATA
EXPLORATION HOLE

BORE COMPLETION DATA: WR15

LOCATION: Approximately 2.6 km north east of mine site (Figure 2)

HEIGHT OF COLLAR ABOVE GROUND: -

STATUS: Exploration hole (abandoned)

DATE COMPLETED: 13/6/88

DRILLING CONTRACTOR: Gorey and Cole Drillers

DRILLING RIG: Ingersoll-Rand TH60

DRILLING METHOD: Air hammer

DEPTH DRILLED: 61 m

DIAMETER DRILLED: 0 - 5 m 200 mm diameter hole, hammer
5 - 61 m 140 mm diameter hole, hammer

CASING: -

SLOTS: -

WATER LEVEL: -

AIRLIFT YIELD: Minor water

WATER SALINITY: -

LITHOLOGY:

(m)
0 - 6 SCHIST - Khaki green. Slightly weathered to fresh, finely banded with some ferruginous staining on joints.

6 - 15 QUARTZITE - Cream red, fresh with minor bands of fresh grey schist.

15 - 27 SCHIST/QUARTZITE - Grey cream, fine grained, finely banded schist with bands of quartzite.

27 - 51 GRANO DIORITE - Grey black, fine grained fresh massive with minor quartz/quartzite veins especially 42 - 45.

51 - 54 QUARTZITE - Pale green, fine grained fresh massive.

APPENDIX 2
BORE COMPLETION DATA
EXPLORATION HOLE

BORE COMPLETION DATA: WR16

LOCATION: Approximately 3 km north east of mine site (Figure 2)

HEIGHT OF COLLAR ABOVE GROUND: -

STATUS: Exploration hole (abandoned)

DATE COMPLETED: 14/6/88

DRILLING CONTRACTOR: Gorey and Cole Drillers

DRILLING RIG: Ingersoll-Rand TH60

DRILLING METHOD: Air hammer

DEPTH DRILLED: 85 m

DIAMETER DRILLED: 0 - 5 m 200 mm diameter hole, hammer
5 - 85 m 140 mm diameter hole, hammer

CASING: -

SLOTS: -

WATER LEVEL: -

AIRLIFT YIELD: Minor water

WATER SALINITY: -

LITHOLOGY:

(m)

0 - 3 ALLUVIUM - Red brown, sandy silt with minor amphibolite. Minor quartzite fragments.

3 - 9 AMPHIBOLITIC SCHIST - Khaki brown, fine grained. Slightly weathered with minor white quartzite bands.

9 - 18 AS ABOVE - But fresh.

18 - 36 GRANODIORITE - Dark grey black, fine grained fresh massive with minor quartz bands.

36 - 18 GRANODIORITE/QUARTZITE - Grey black, fine grained fresh granodiorite with interbedded cream, pale brown, fine grained quartzite.

Rockwater
PLAN 3.