

FINAL REPORT
EXPLORATION LICENCE 8029
NEWCASTLE WATERS 1:250 000 MAP SHEET

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FOR C.D. RONAN
BY J.W. SHIELDS
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SUMMARY

This report details the exploration activities conducted on Exploration Licence 8029 during the period from 28 April 1993 to 4 July 1994.

Difficulties in knowing one's location in this area are mainly due to a lack of topographic features, as the area is semidesert and there are no watercourses or hills and valleys present. A Trimbal Global Positioning System was used to help with the search.

Exploration activities conducted consisted of a magnetometer survey and geochemical sampling.

INTRODUCTION

It has been reported that gold was found by surveyors when surveying a proposed railway route somewhere in this area during the 1920's. The Exploration Licence was taken up in order to search for this gold.

TENURE

Exploration Licence consisting of nine (9) minute blocks was granted to Cecil Donald Ronan on 28 April 1993 for a period of four (4) years.

The licence was surrendered on 4 July 1994.

LOCATION AND ACCESS

EL 8029 is located on the Newcastle Waters 1:250 000 (SE53-5) Geology map sheet and the Gordon 1:100 000 (39/1) tenement map sheet.

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LOCATION AND ACCESS cont'd

The licence lies between latitudes 17 degrees 11 minutes South and 17 degrees 14 minutes South and longitudes 132 degrees 18 minutes East and 132 degrees 21 minutes East.

It is situated about 100 kilometers slightly north west of the homestead at Newcastle Waters Pastoral Lease. Access is difficult as the closest road or track is the Murrnranji road and it is necessary to drive through the bush from this road south to the licence area. This is difficult as the vegetation is very dense and therefore very hard to drive through.

GEOLOGY

EL 8029 lies in the Wiso Basin, the geology of which has been described by the Bureau of Mineral Resources in 1980. The Wiso Basin is a structural downwarp. It underlies an area of 160 000 square kilometers in the central northwest of the Northern Territory.

It is a slight Palaeozoic structural downwarp in which sediments have accumulated on a basement of folded Proterozoic rocks and flat-lying Lower Cambrian basalts during the Cambrian (Kennewell and Huleatt, 1980).

The local geology of EL8029 is underlain by Cainozoic sand, sandy and loamy soils with some lateritic material. This is underlain by Tertiary laterite, which in turn is underlain by Lower Cretaceous Mullaman beds, which consist of quartz sandstone, pebble conglomerate, siltstone and claystone (Randal 1969).

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EXPLORATION ACTIVITIES

The licence area of EL 8029 has been extensively explored. The exploration activities included a magnetometer survey shown in Figure 1. Also four samples (94-4 to 94-7) were taken within the licence, the assay results are shown in Appendix 1. This report should be read in conjunction with the previous years report for a complete details of the exploration undertaken.

Despite the exhaustive search for mineralisation, none has been found.

EXPENDITURE

The expenditure spent on Exploration Licence 8029 over the term of the licence was estimated at \$19 900.

The expenditure for EL 8029 is summarised below:

Traversing	\$5000
Magnetometer Survey	\$3200
Sampling	\$ 200
Top Fill Survey	\$3100
Vehicle Expenses	\$1000
Wages	\$6400
Camp Supplies	\$1000

TOTAL	\$19 900

CONCLUSIONS

Due to the fact that no significant mineralisation has been found after exploring the licence thoroughly, the licence has been surrendered.

1000 gammas

17 15" 145'
132 33" 952'

17 15" 340'
132 35" 918'



0 500m

EL 8029
Magnetometer
traverse

0

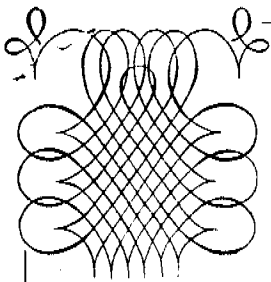
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REFERENCES

KENNEWLL, P.J. and HULEATT, M.B., 1980. Geology of the Wiso Basin, Northern Territory. *Bureau of Mineral Resources, Australia Bulletin 205*. Australian Government Publishing Service, Canberra.

RANDAL, M.A. 1969., Newcastle Waters, Northern Territory, 1:250 000 Geological Series *Bureau of Mineral Resources, Australia, Explanatory Notes SD/53-5*.

APPENDIX 1



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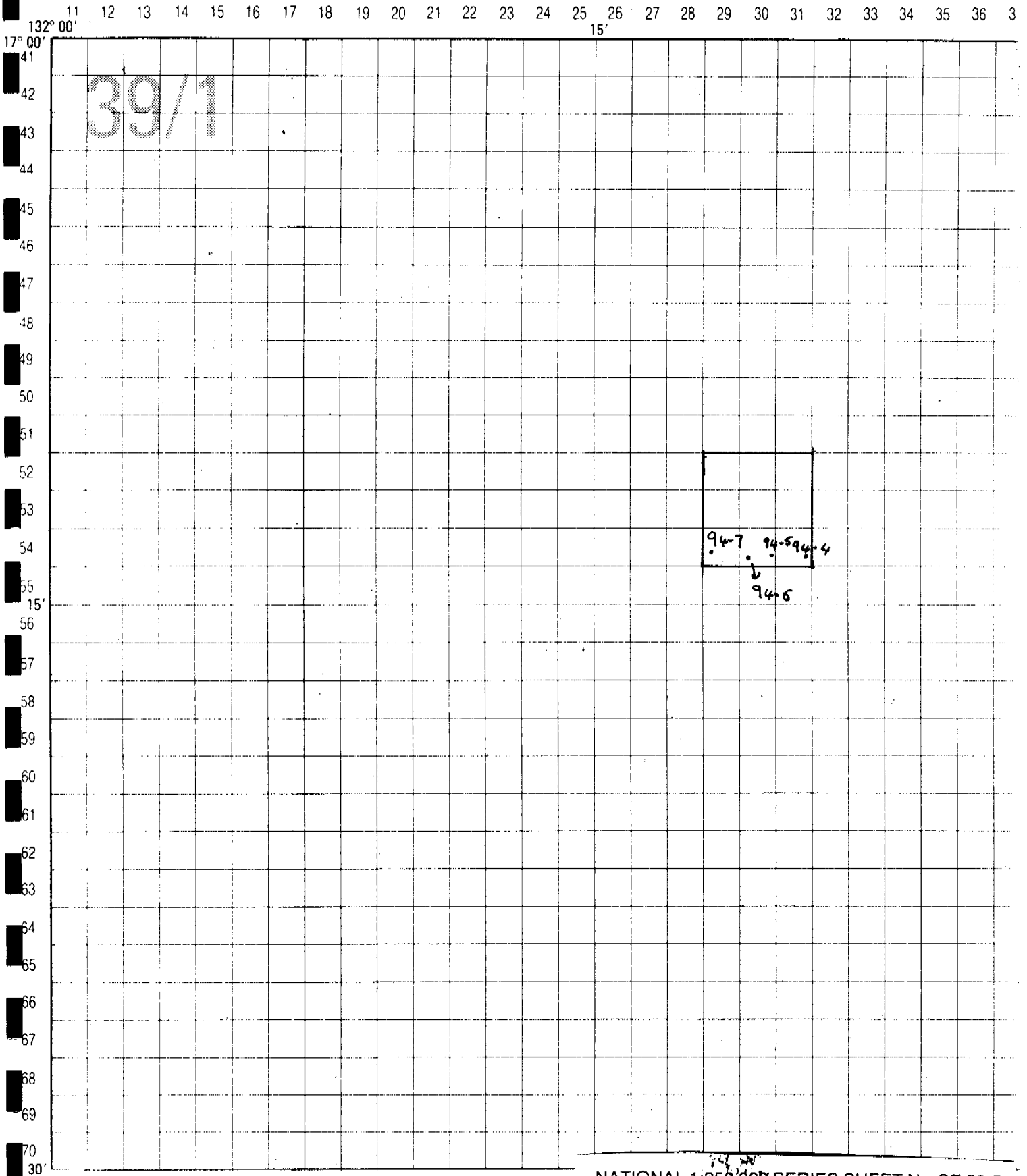
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Sample	Au (ppm)
M941	<0.01
M942	<0.01
M943	<0.01
94-4	<0.01
94-5	<0.01
94-6	<0.01
94-7	<0.01

NEWCASTLE WATERS NORTHERN TERRITORY



NATIONAL 1:250 000 SERIES SHEET No. SE 53-5

1:250 000 MINING TENURE
NORTHERN MINERAL FIELD

NEWCASTLE WATERS

Refer to this map as:—

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Sample Locations

for EL 8029

CD Ronan