Report 112/2/88

ANNUAL REPORT FOR THE YEAR ENDING 12TH AUGUST 1988

EXPLORATION LICENCE 5312 FISHER ROAD NORTHERN TERRITORY

Golden Plateau N.L. Mt. Bundey Joint Venture

> T.R. Marshall Darwin September 1988

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Airmagnetic Contours

Sample Locations

Figure 3.

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1:25,000

1:25,000

1. INTRODUCTION

Exploration Licence 5312 was granted to Robert Johnston on 13th August 1987 for a period of three years. The tenement is subject to an agreement between Robert Johnston and Oceania Exploration and Mining N.L. Under the terms of a farm-in and joint venture agreement GPN Pty Ltd, a wholly owned subsidiary of Golden Plateau N.L., has the right to earn a 51% interest in the tenement. Exploration activities were conducted by Golden Plateau N.L. as managers of the joint venture.

EL 5312 comprises 13 square kilometres, four one minute square blocks, located on the boundary between Mt Keplar and Mt. Ringwood Pastoral Leases some 17 kilometres due east of Adelaide River (Figure 1). The area is located on Batchelor 1:100,000 topographic map. Access is gained via Fisher Road, the access road to Goodall Goldmine, and then via station tracks which cross the tenement.

Exploration during the first year of title was directed at gold and included geological mapping, rick chip sampling and drainage sampling. The tenement also falls within a regional airmagnetic and radiometric survey completed for Golden Plateau N.L.

2. CONCLUSIONS AND RECOMMENDATIONS

No significant gold values were returned from investigations completed during the first year of tenure. Geological mapping indicated the following targets:

- * Mount Shoobridge Fault in the east of the tenement,
- * a sandstone dominated sequence in the west of the tenement.

It is recommended these two areas are tested by rock chip sampling during the second year of tenure.

3. GEOLOGY

EL 5312 is located in the central part of the lower Proterozoic Pine Creek Geosyncline. All rocks within the tenement form part of the

Burrell Creek Formation, a turbidite sequence of mudstones, siltstones and greywackes, which EL 5312 is represented by;

- * massive graded sandstone with minor interbedded siltstone and mudstone,
- * interbedded mudstone, siltstone and turbidite sandstone,
- * mudstone and siltstone with minor turbidite sandstone.

This sequence youngs to the west and coarsens upwards (Figure 2). This structure is dominated by a north plunging syncline folded about a north-trending axis near the centre of the lease. The eastern lease block covers a section of the Mount Shoobridge Fault.

Quartz veins were rarely observed during mapping of the area although veinlets up to 1 centimetre wide form stockworks in some sandstone units in the western lease block.

The tenement secures an area immediately west of the Howley Creek flood plain. A tributary of the Howley Creek flows through the lease and occupies a minor floodplain.

4. GEOPHYSICS

The tenement falls within a regional airmagnetic and radiometric survey commissioned by Golden Plateau N.L.

The data for EL 5312 are presented as contours (Figure 3). These data are currently being processed using image enhancement techniques.

No significant features are apparent from the contour data. The Mt. Shoobridge Fault does not have a magnetic signature within EL 5312.

5. GEOCHEMISTRY

Geochemical exploration within the lease included collection of 7 rock chip samples, six 5kg stream sediments screened to nominal minus 10 mesh along with six 1kg minus 30 mesh sediment samples from the same sites (Figure 4).

All samples were assayed for gold by Amdel Laboratories in Darwin. Rock chips were analysed to 1 ppb Au detection using a 50g charge, acid digest, solvent extraction and graphite furnace AAS techniques. Gold content of the 5kg stream sediments was determined using BLEG (bulk leach cyanide extractable gold) techniques and the 1kg stream sediments were further screened to minus 80 mesh and a 50g charge analysed for gold using graphite furnace AAS techniques to 1 ppb Au detection limit.

Gold values in rock chips were uniformly low (maximum value 0.0006 ppm Au).

Drainage samples returned low gold values. Two BLEG samples returned slightly elevated values (0.43, 0.99 ppb Au) but these are not considered to indicate significant gold mineralisation within EL 5312.

6. EXPENDITURE

Geology	7000
Geophysics	7500
Assays	300
Drafting, reporting	700
Administration	2750
	\$ <u>18250</u>

The expenditure covenant for the first year of EL 5312 was \$10000

APPENDIX 1

EL 5312 Gold Assay Results 1987-88

1. Rock Chips

Sample Number	Gold (ppm)
30055	x
30056	0.003
36520	0.003
36521	0.001
36522	0.006
36523	x
36524	x

x = less than 0.001 ppm Au.

2. <u>BLEG Stream Sediments</u>

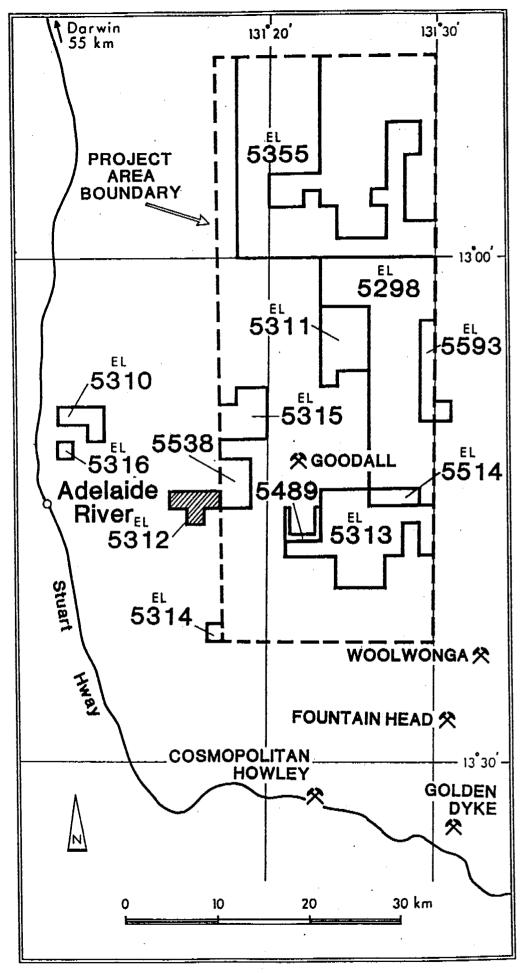
Sample Number	Gold (ppb)
29945	0.08
29946	0.07
29947	0.43
29948	0.09
29949	0 .9 9
29950	x

x = less than 0.05 ppb Au

3. Low level gold Stream Sediments

Sample Number	Gold (ppm)
29845	x
29846	0.001
29847	0.002
29848	x .
29849	0.003
29850	x

x = less than 0.001 pm Au.

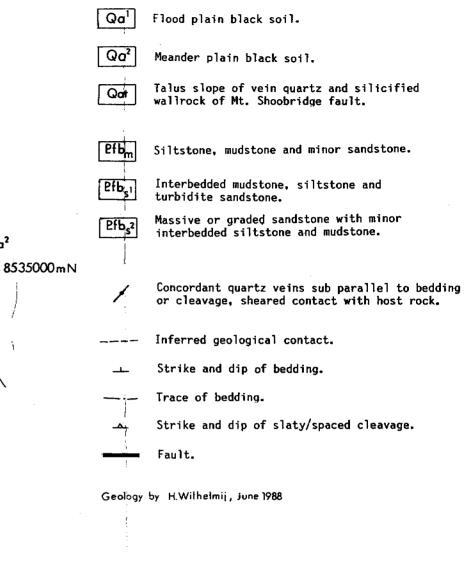


LOCALITY MAP EL 5312

Mt. Bundey Joint Venture

Northern Territory





 Qa^2

 Qa^1

Pfb_m

745000m E

Pfp^m

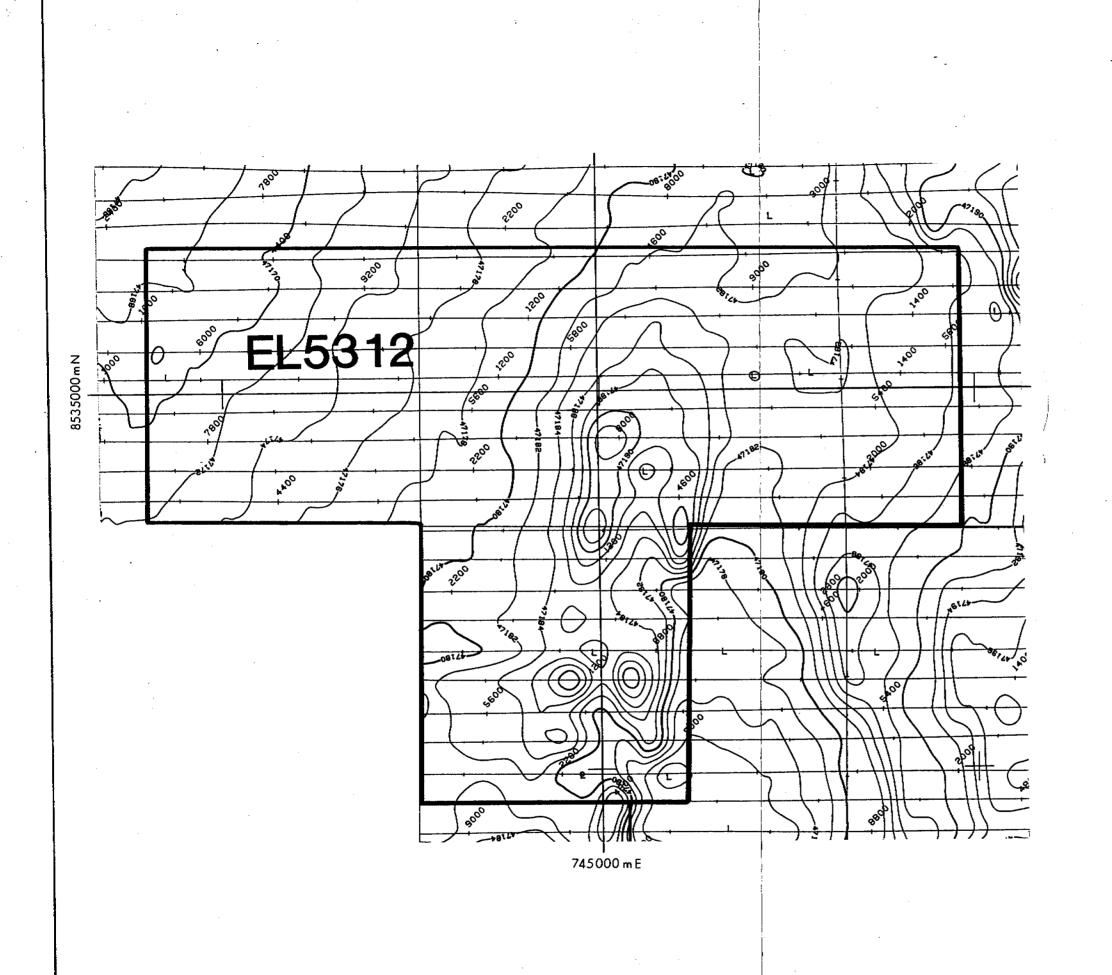
₽fb_{s²}

Scale 1:25000

GOLDEN PLATEAU NL MT BUNDEY JOINT VENTURE, NT

Geology, EL5312

FIGURE 2



AIRCRAFT

VH-EXH ROCKWELL SHRIKE COMMANDER 500S

MAGNETOMETER

SPLIT BERM CESIUM SCINTREX V201 RESOLUTION 0.01 nonoTesia

CYCLE RATE 0.2 seconds SAMPLE INTERVAL

14 metres SPECTROMETER

256 CHANNEL EXPLORANIUM GRBOOB

VOLUME 33.56 litres CYCLE RATE 1.0 seconds

SAMPLE INTERVAL 70 metres

DATA ACQUISITION

8 CHRNNEL WATRNABE MC 6700 CHRRT RECORDER HEWLETT PRCKARD 9000 SERIES COMPUTER **REPODATA DIGITAL ACQUISITION SYSTEM**

FLIGHT LINE SPACING

200 metres TRRVERSE LINES

TIE LINES

5000 metres

FLIGHT LINE DIRECTION

TRRVERSE LINES TIE LINES 090 - 270 degrees 180 - 360 degrees

SURVEY HEIGHT

MERN TERRAIN CLEARANCE - 70 metres

NAVIGATION AND RECOVERY

Using SYLEDIS UHF positioning system

DATA PROCESSING

REGIONAL FIELD

IGRF MODEL 1985 REMOVED 46900 nanoTeslas

BASE VALUE ADDED GRID CELL SIZE

70 metres

CONTOUR INTERVAL

2 nanoTesias 0.7 fiducials

PARALLAX CORRECTION

--- 50 fiducial interval

Aerodata Survey No. 1096, Dec 1987 - May 1988

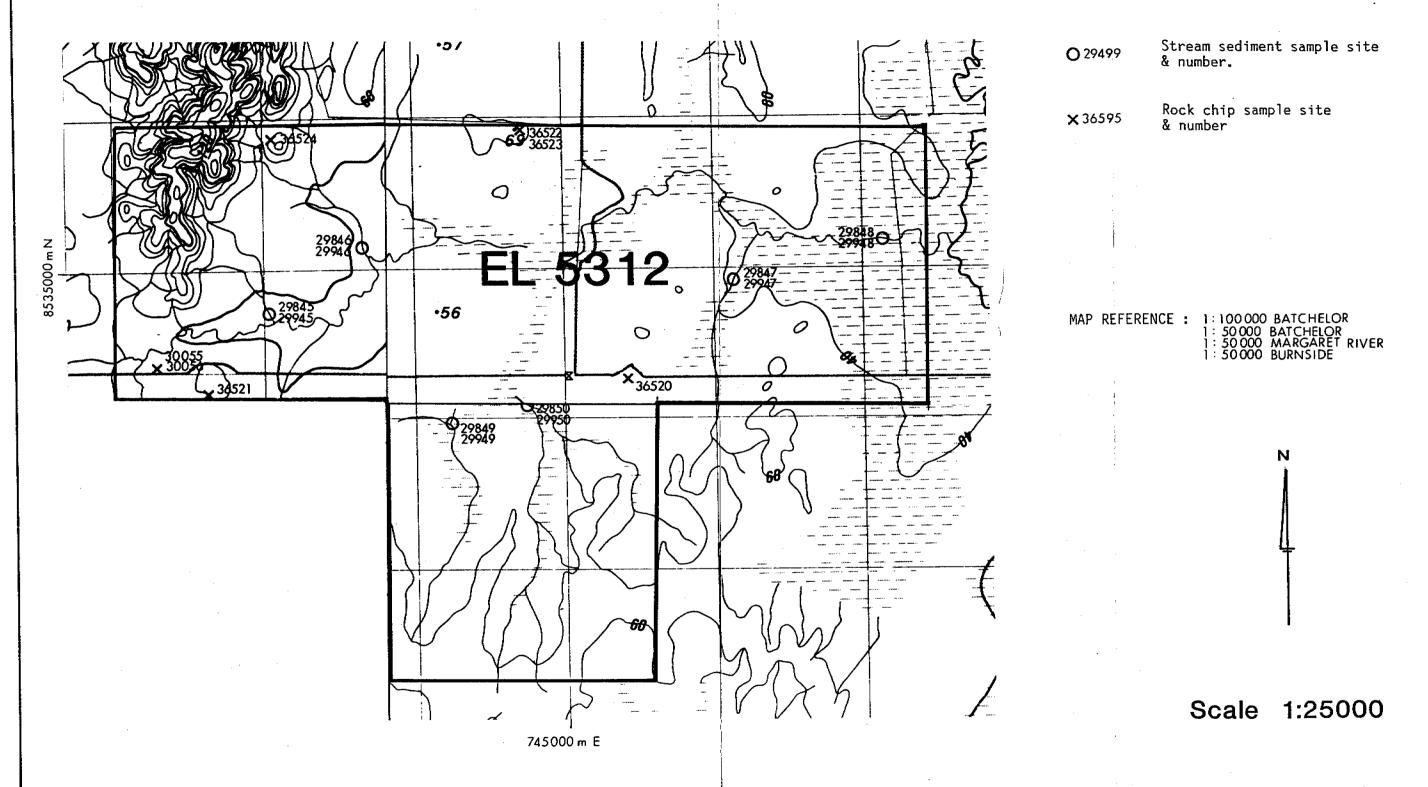
MAP REFERENCE : 1:25000 5171-1-SW 5171-11-NW 5171-1V-NE

Scale 1:25000

GOLDEN PLATEAU NL MT BUNDEY JOINT VENTURE, NT

Magnetics, EL5312

FIGURE 3



GOLDEN PLATEAU NL MT BUNDEY JOINT VENTURE, NT

Sample Localities, EL5312

FIGURE 4