TITLE:

SECOND ANNUAL REPORT EXPLORATION LICENCE 4975 - "YEURALBA NORTH"

PERIOD:

8TH JANUARY 1988 - 7TH JANUARY 1989

TENEMENT:

EXPLORATION LICENCE 4975

HOLDERS:

MINERAL HORIZONS NL

11TH FLOOR

28 THE ESPLANADE PERTH WA 6000

AUTHOR:

D.D. BOYER

DATE:

FEBRUARY 1989

1:250,000 SD53-9 Katherine 1:100,000 5469 Eva Valley

COPY NO: 2

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23 JAN 1995 SCANNED

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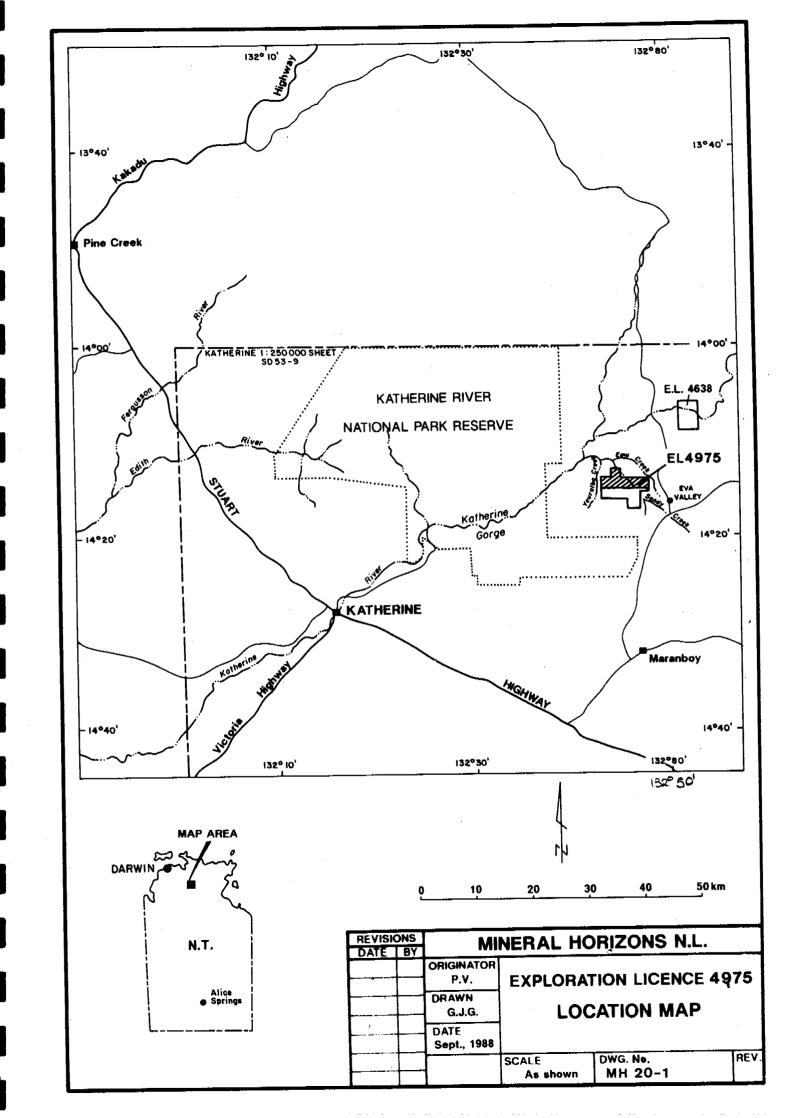
DISTRIBUTION:

- 1. Northern Territory Department of Mines
- 2. Mineral Horizons N.L. Darwin
- 3. Mineral Horizons N.L. Perth

SUMMARY

Exploration carried out during the year included a review of previous work and prospecting traverses in the vicinity of the abandoned workings.

Further detailed mapping and rock chip sampling is planned.



1. INTRODUCTION

The tenement adjoins E4636, also held by Mineral Horizons NL. Historically the area has produced tin and tungsten from greisen and quartz lodes within the Yeuralba granite. Exploration during 1988 included prospecting traverses and a review of previous data.

2. LOCATION AND ACCESS (SEE DRAWING MH20-1)

Located 55 kilometres east northeast from Katherine, the licence can be reached by following the Stuart Highway from Darwin, south through Katherine to the Maranboy Police Station turn-off. Two kilometers from the Maranboy police station a graded road heads north to the Eva Valley Homestead. About 11 kms south of Eva Valley Homestead, a rough bush track leads west and then north to the old Yeuralba tin and tungsten mining areas. The track is not passable during the wet season and 4 wheel drive is recommended.

3. ENVIRONMENT AND ECOLOGY

Refer to Shields and Bellette (1988).

4. TENURE

TenementAreaGrantedPeriodEL49756 Blocks8.1.873 Years

5. PREVIOUS WORK

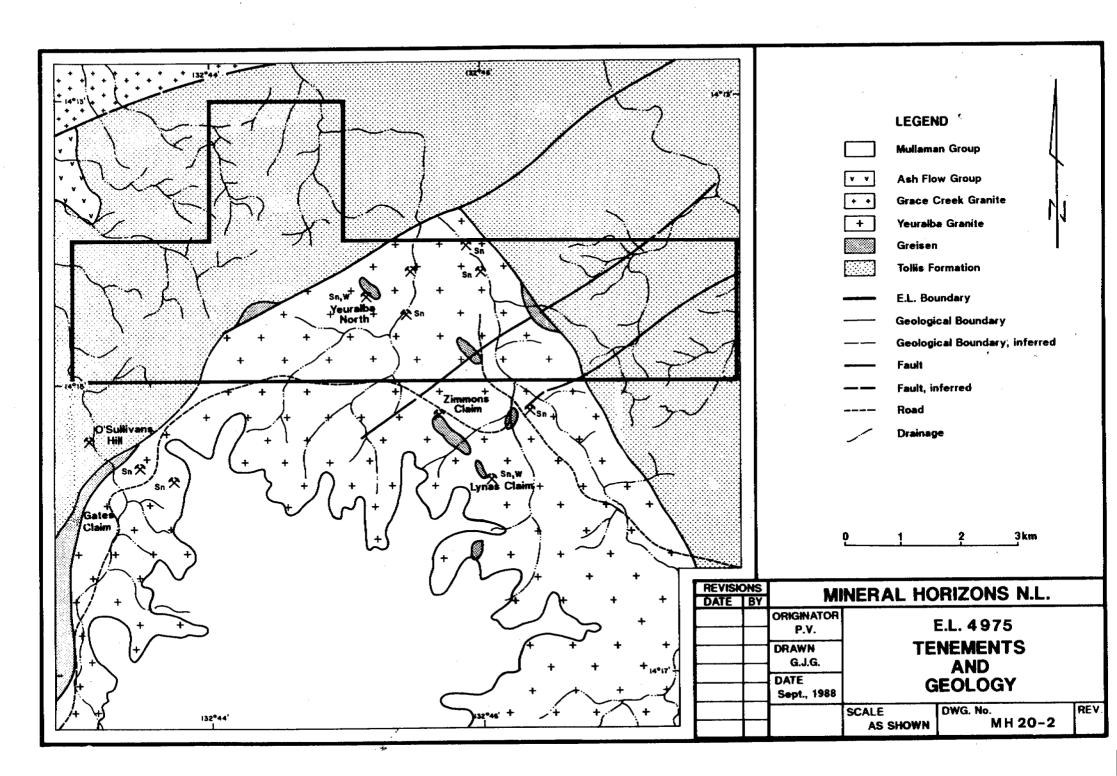
Previous work and production in the Yeuralba area is described by Shields and Bellette (1988) and Vakil (1988).

6. REGIONAL GEOLOGY (See Drawing No. MH20-2)

The geology of the area comprises the Yeuralba granite and the Tollis Formation (the unit equivalent to the Burrell Creek Formation in the north).

The Yeuralba granite is a tourmaline biotite leucogranite which often exhibits extensive greisen alteration near the margins.

The Tollis Formation is particularly altered where the Yeuralba granite intrudes it and this is where tungsten and tin mineralisation has been developed. The Tollis Formation is a new name for the host lithologies. This Formation is thought to be about 2000 metres in thickness



and consists of interbedded siltstone, greywacke, argillite, tuff and altered volcanics. These rocks are generally folded.

The Cretacaceous sequence lies on the Yeuralba granite, and Cretaceous siltstone and sandstone form a resistant capping in the northwest and northeast of the licence.

7. MINERALISATION

Most of the known tin and tungsten mineralisation in the area is in the form of hydrothermal tourmaline and topaz greisen although alluvial deposits also occur.

Gold mineralisation is associated with tourmaline, haematite and topaz minerals.

8. CURRENT PROGRAMME

Prospecting was carried out over the Licence concurrently with rockchip sampling of the Lynas and Zimmons lodes on E4636 to the South. Whereas the gold results from the sampling on E4636 were extremely poor, previous sampling from lodes within E4975 Shields and Bellette (1988) indicate that minor gold is present.

9. FUTURE WORK

The anomalous gold values obtained from greisen and quartz lodes in E4975 warrant a brief follow up rockchip sampling programme to determine their significance.

REFERENCES

SHIELDS, J.W. AND BELLETTE, S.J.

VAKIL, P.

JANUARY 1988. FIRST ANNUAL REPORT. E4975, "YEURALBA NORTH", NORTHERN TERRITORY.

SEPTEMBER 1988. THIRD ANNUAL REPORT. E4636, "YEURALBA"

E4975

									YEAR	END 7/	1/89
Major activity	Staff salaries	Staff wages	Consultants/ contractors' fees	Vehicles	Travel Other	Accom.	Field Accom.	Field Equip.	Office Equip.	Other	Sub- Total:
Geology			1035	310	90	207				9	1651
Geochemistry								·			
Geophysics											
Access										·	
Gridding										·	
Drilling: - diamond - other					`						
Drafting											
Metallurgy											
Engineering						<u>.</u>					
Environmental	Ĺ										
Other											
SUBTOTALS											165
			TOTAL		1	651					
			LOCAL OFFICE O			720 980					
			G R A N D	TOTAL	<u>\$3</u>	351					

AJH/MM: 208

REPORT NO.		SECURITY	<u> </u>
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	Exploration +	viona 4975-"Y	leuralba North"
AUTHOR (S)	D.D. Boyes	•	
PUBLISHER			
		DATE OF PUB'N	
		PAGES OF TEXT	•
ACCOMPANIMENTS			
DRILL CORE ?	NO		
	EL 4975		
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1: 100 000	Eva Valley	5469	
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PROSPECT NAME	yeuralba Nor	rth	
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	EAST:	NORTH:	
TECTONIC UNIT			
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(O NONMETALLIFEROUS M	IINERALS	
MINOR TERMS			
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O PERCUSSION O AUGER	O RADIOACTIVITY O E.M. SURVEYS	O sork chib	O PHOTOGEOLOGY O GRIDDING
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