Principal Registrar,  
Dept. Mines & Energy,  
Minerals House,  
Esplanade,  
DARWIN, N.T. 5790.

Attention: Mrs. J. Barnes

Dear Madam,

Re: EL 4780  
- G. Jones

WE wish to present our report of exploration for year 1 of the above licence.

This licence covers an area of approximately 5 kilometres and is situated on the Finnis River 100 kilometres southwest of Darwin. The topography consists predominantly of flat country, half of which becomes inundated in the wet season.

Exploration consisted of:

1. Searching previous exploration records and obtaining and examining geological data.

2. Auger drilling and sampling of rock outcrops.

Of the previous information examined, the most significant was a report on a granimetric survey which was carried out by N.T. Geological survey in the region. The results show a large negative anomaly located several kilometres to the southwest of EL 4780. The conclusion drawn is that this anomaly represents a granite intrusion.

Preliminary geological maps (1:25000) of the Bynoe Harbour area indicate a north trending fault crosses the eastern side of this prospect.

Three field trips were undertaken to the prospect and the following exploration work done:

(a) Auger drilling was conducted (see location A on attached plan) to follow up a previous report on a former mineral lease which indicated good tantalite in the area. The bagged samples consisted of fine sandy material; these were panned off, but the only material found was tourmaline.

(b) Chip samples were taken from outcropping pegmatite in the river bank, and analysed by Analabs. The (combined) sample was found to contain lithium, with minor tin and tantalite.
(c) Alluvium samples were collected along the river bank and in the river bed and chip samples taken from the pegmatites and micaceous schist outcrops in the river bed and banks.

These samples were panned, and concentrates showed heavy black and silver minerals. In addition, one sample contained gold. Results from these concentrates are not available.

For year 2 of the licence, it is proposed to conduct more extensive testing of river gravels and outcrops to determine likely mineral grades of material.

In addition, we propose to conduct some auger drilling on the plains above the outcrop in the river in an attempt to determine the extent and mineralisation of the reefs. We estimate the cost of work in year 2 to be $2,750.

Expenditure for year 1 of the licence was as follows:

Administration $200
Geological research and maps $350
Field trips $1450
Materials and testing $80

Total Expenditure: $2080

Should you have any queries please do not hesitate contacting me.

Yours faithfully,

G.M. CHRISP
For G. Jones, Licence holder