DVB:LRP

4th February 1981

The Exploration Registrar
Department of Mines & Energy
P.O. Box 2901
DARWIN _ N.T._

Dear Sir,

Re E.L. 2403.

I am forwarding a copy of our report on exploration on E.L. 2403. As preliminary reconnaissance did not indicate any geological associations favourable to the development of economic tantalum mineralization no further exploration was carried out in this area. Consequently, there are no sampling logs; few random surface grab samples were taken, all of which were negative.

Expenditure:
Total expenditure for the programme amounts to approximately $3000.00.

Yours faithfully,
JAYS EXPLORATION PTY.LTD.

DOUGLAS V BRIGHT
SENIOR GEOLOGIST.

NORTHERN TERRITORY
GEOLoGICAL SURVEY

Encl.
3rd October 1980.

E.L. 2403 - BARROW CREEK, N.T.

LOCATION:

E.L. 2403 is situated between latitudes 21°30' and 21°35', and longitude 133°30' and 133°45', thereby enclosing an area of some 247 square kilometres with its south eastern corner 2 kilometres west of the Stuart Highway at a point 15 kilometres north of Stirling Station. Access to the south western corner is via a good dirt road which turns west off the Stuart Highway, 4 kilometres north of Stirling Homestead. The southern E.L boundary is encountered 25 kilometres along this track. There are no tracks or grid lines whatsoever in the E.L itself and access is difficult owing to thick scrub over much of the area.

TOPOGRAPHY:

Relief is generally low, the highest point being a north-trending ridge on the eastern E.L boundary. Otherwise the only relief comprises a low range of hills in the central west and a number of low domes in the south west. Drainage is diffuse.

GEOLOGY:

The geology of the area has been photo interpreted by the BMR as including Archaean Arunta Complex metamorphics. This fact, combined with an apparent south westerly continuity with the area of interest in E.L 2188, was the reason for the application for this E.L. However, a detailed field inspection failed to reveal any metamorphics; in fact, the upper zone of Barrow Creek Granites makes only occasional appearances from which its superficial extent can be inferred on the geological interpretation. The only good outcropping of granite occurs in the extreme west of the E.L. The topographic relationships of this granite may indicate that this outcrop is a small block faulted upwards as shown by the BMR.
E.L. 2403 - BARROW CREEK, N.T.

However, it has a normal stratigraphic relationship with the Upper Proterozoic quartzite ridge immediately to the south and this would indicate that the granites are at shallow depth over much of the area below the soil cover, taking into account the granite outcropping at Mt. Nelson to the north. Upper Proterozoic quartzites predominate and the main outcropping ridge in the central west exhibits considerable brecciation and silicic recementing. Occasional quartz float seems to originate more from these breccias than from quartz blows as such, with the exception of one quartz dike in the central east. No pegmatites or old workings have been located.

WORK TO DATE:

Detailed surface geological reconnaissance and photo interpretation has culminated in the production of a photo-scale geological plan. No drilling or sampling has yet been carried out.

RECOMMENDATIONS:

I have located no evidence of mineralization or previous workings nor have I found any geological association which would indicate possible development of pegmatites and mineralization. Considering the lack of any mineralization in broad-scale drill-sampling to the north in alluvials, I do not consider that E.L 2403 warrants further exploration and recommend that this E.L be dropped from our tenement schedule.

DOUGLAS V BRIGHT

SENIOR GEOLOGIST.