

EXPLORATION LICENCES 1069-1078  
(FORMERLY 695-704)

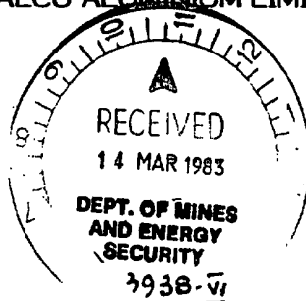
OFFICER AND ARCKARINGA BASINS  
SOUTH AUSTRALIA

QUARTERLY REPORT

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## INTRODUCTION

Exploration during the period has involved acquisition of detailed geophysical information over prominent magnetic anomalies in EL's 1071 and 1073 (Figure 3), and collation and interpretation of data previously acquired.

## EXPENDITURE

Allocation of expenditure of respective EL's is shown in Table 1. 7

## TRONA EXPLORATION

Field work has been confined to detailed ground geophysical traverses over two prominent magnetic anomalies located in the eastern EL's (Figure 3).

Approximately 80 line kilometres were surveyed and levelled for 5 intersecting grid lines on the anomaly centred on Welbourn Hill Station in EL 1071 (Survey B). Gravity and magnetics were recorded at 200 metre spacings. Approximately 30 line kilometres were completed on 3 lines in the Cadney Park area on EL 1073 (Survey C), with gravity data recorded at 400 metre spacings and magnetics at 200 metre spacings. All data is currently being processed.

In addition Comalco drill hole Byilkaooora 3 was levelled to a bench mark on the nearby Tarcoola - Alice Springs railway, giving the following data:

Collar Level	327.366m
Ground Level (Natural Surface)	326.318m

Drill hole Byilkaooora 2 has been levelled using detailed photogrammetric techniques resulting in a height determination of 353 metres.

Cored sections of drill holes Many 2 and 3, and Byilkaoora 2 and 3, considered to be prospective for base metal mineralisation, were sampled at 2 metre intervals and assayed for Cu, Pb and Zn. Results are included as Appendix 6.

Detailed carbonate geochemistry is in progress on samples from Byilkaoora 2 and 3 in order to assess the geochemical (diagenetic) history of the extensively pseudomorphed intervals observed.

### COAL EXPLORATION

A detailed report on coal exploration activities in EL 695 (1069) is included as Appendix 9.

