

TURNER E.L. 273

FINAL REPORT ON AIRBORNE GEOPHYSICAL SURVEY

The Turner E.L. 273 was covered by an airborne magnetic and radiometric survey during November 1973.² The survey was flown by Aero Service Australia Pty. Ltd. at a mean terrain clearance of 500' and a line spacing of ½ mile. Instrumentation comprised a total intensity fluxgate magnetometer and a spectrometer with a 1000 cu. in. crystal.

The results of the survey suggested the area has a low potential for uranium mineralisation.

The magnetic characteristics show the area to be largely inactive magnetically. The few anomalies recorded were shown to be related to variations in rock type and principally related to intrusive rocks. The Tom Turner fault does not appear to have any magnetic expression at this scale.

The radiometric results show that values in both the total count and uranium channels do not show any anomalous readings. The variations recorded are due to outcrop distribution.

In view of the lack of geophysical encouragement and the paucity of outcrop, no further work is recommended.

Attached are a flight plan diagram and contoured results of total magnetic intensity, total radioactive count and uranium count.

EES:rg

E.E. Swarbrick
Senior Supervisory Geologist

Encls. 2

OPEN FILE

CR 74/107

FLIGHT ALTITUDE 500 FEET
 FLIGHT INTERVAL TRAVERSE 4 MILES TIE LINE 5 ST. MILES
 CONTOUR INTERVAL TOTAL MAGNETIC INTENSITY 5 GAMMAS
 CONTOUR INTERVAL TOTAL COUNT 25 C.P.S.
 ALTITUDE, BACKGROUND AND COMPTON CORRECTIONS APPLIED
 CONTOUR INTERVAL URANIUM 5 C.P.S.
 PROJECTION A.T.M.
 PLANIMETRIC SOURCE TOPOGRAPHICAL
 SURVEYED AND COMPILED NOV. 1972-JAN. 1973
 C.A.S. PROJECT NO. 7217

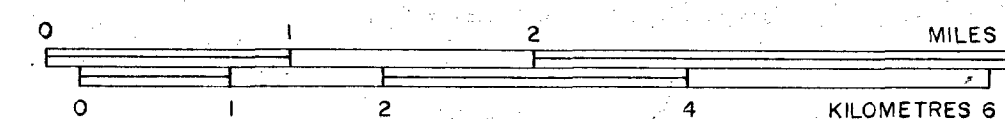
AIRBORNE GEOPHYSICAL SURVEY

TURNER
NORTHERN TERRITORY

ESSO AUSTRALIA LTD.

FLIGHT PATH

SCALE 1 : 50,000



FLOWN AND COMPILED BY AERO SERVICE (AUST) PTY LTD.
 CAMMERAY, N.S.W.

13 345

310000E

320000E

330000E

340000E

3270000N

3280000N

3250000N

3240000N

130 345
130 345

130 345

FLIGHT ALTITUDE 500 FEET
TRAVERSE 4 MILES TIE LINE 5 ST. MILES
CONTOUR INTERVAL TOTAL MAGNETIC INTENSITY 5 GAMMAS
CONTOUR INTERVAL TOTAL COUNT 25 C.P.S.
ALTITUDE, BACKGROUND AND COMPTON CORRECTIONS APPLIED
CONTOUR INTERVAL URANIUM 5 C.P.S.
PROJECTION A.T.M.
PLANIMETRIC SOURCE TOPOGRAPHICAL
SURVEYED AND COMPILED NOV. 1972 - JAN. 1973
C.A.S. PROJECT NO. 7217

AIRBORNE GEOPHYSICAL SURVEY

TURNER
NORTHERN TERRITORY

ESSO AUSTRALIA LTD.

TOTAL COUNT

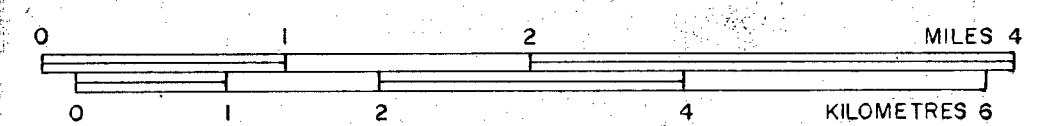
SCALE 1 : 50,000

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CAMMERAY, N.S.W.

CR 74/107

FLIGHT ALTITUDE 500 FEET
FLIGHT INTERVAL TRAVERSE 4 MILES TIE LINE 5 ST. MILES
CONTOUR INTERVAL TOTAL MAGNETIC INTENSITY 5 GAMMAS
CONTOUR INTERVAL TOTAL COUNT 25 C.P.S.
ALTITUDE, BACKGROUND AND COMPTON CORRECTIONS APPLIED
CONTOUR INTERVAL URANIUM 5 C.P.S.
PROJECTION A.T.M.
PLANIMETRIC SOURCE TOPOGRAPHICAL
SURVEYED AND COMPILED NOV. 1972 - JAN. 1973
C.A.S. PROJECT NO. 7217

AIRBORNE GEOPHYSICAL SURVEY
TURNER
NORTHERN TERRITORY
ESSO AUSTRALIA LTD.
TOTAL MAGNETIC INTENSITY
REGIONAL FIELD REMOVED
SCALE 1 : 50,000



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CR 74/107

13 345

310000E

320000E

330000E

340000E

3270000N

3280000N

3290000N

3300000N

13 345

130 18E

130 38E

FLIGHT ALTITUDE 500 FEET
FLIGHT INTERVAL TRAVERSE 4 MILES TIE LINE 5 ST. MILES
CONTOUR INTERVAL TOTAL MAGNETIC INTENSITY 5 GAMMAS
CONTOUR INTERVAL TOTAL COUNT 25 C.P.S.
ALTITUDE, BACKGROUND AND COMPTON CORRECTIONS APPLIED
CONTOUR INTERVAL URANIUM 5 C.P.S.
PROJECTION A.T.M.
PLANIMETRIC SOURCE TOPOGRAPHICAL
SURVEYED AND COMPILED NOV. 1972-JAN. 1973
C.A.S. PROJECT NO. 7217

AIRBORNE GEOPHYSICAL SURVEY

TURNER

NORTHERN TERRITORY

ESSO AUSTRALIA LTD.

URANIUM

SCALE 1:50,000



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