

AIRBORNE GEOPHYSICAL PROGRAMME

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REGIONAL

MICROFILMED

22nd November, 1957

MEMORANDUM:

Mr. G.F. Hudspeth,
Manager,
Lyell - E.Z. Explorations.

AIRBORNE GEOPHYSICAL PROGRAMME

In view of

1. The considerable increase in the knowledge of the geology of the eastern part of our original concession;
2. The lack of geophysical anomalies in the same area already covered by the "Percival Prince" aircraft (Sheets 4N, the eastern areas of 3S and 5S);

it is recommended that the zone between the eastern limit of the "Canso" work and the eastern boundary of the original concessions is eliminated from the airborne geophysical programme. If this area is eliminated it will provide a notable saving, since the flying of this strip necessitates a considerable overlap with the "Canso" area to the west. It is to be noted that the principle of eliminating areas, within our concessions, from the airborne geophysical programme has already been accepted by the Control Committee in the original leases and the "Arthur" area.

It is appreciated that the areas marked

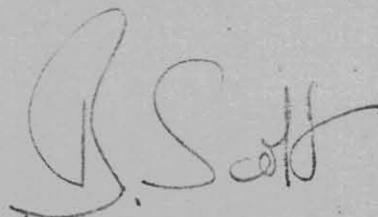
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|-------|-----------------|---|------------------|
| (i) | View Hill | } | see original map |
| (ii) | D'Aguilar Range | | in Report GP3 |
| (iii) | Mount Lewis | | dated 4th March. |

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may still have to be surveyed by the "Percival Prince" aircraft if the "Canso" cannot be flown over these areas and it is recommended that a quote/line mile for these areas is obtained from Adastra Hunting Geophysics Ltd. However,

1. If the Prince aircraft has to survey these three areas obviously there will be no charge for the Canso aircraft, consequently the overall reduction in the programme given above will be maintained.
2. As soon as the Canso aircraft commences operations the desirability of which aircraft to use over these three areas can be decided by an actual reconnaissance.



Geologist-in-Charge

TABLE I

EXISTING AND SUGGESTED MODIFIED MAGNETOMETER PROGRAMMEI. Existing Programme

	<u>Line Miles</u>	<u>Cost</u>
1. Line miles contracted (£3.12.6 per line mile) =	6,500	£23,562.5
2. Line miles already completed (21st November) =	2,575	-
3. Line miles to be completed =	3,925	-

On the overall average of 143 line miles flown per week (2,575 line miles were flown in 18 weeks) this programme would not be finished until mid-June, 1958, and the final results would not then be available until the field season 1958-1959.

II. Recommended Alternative

	<u>Line Miles</u>	<u>Cost</u>
1. Line miles required =	4,575	£16,584.5
2. Line miles already completed (21st November) =	2,575	-
3. Line miles to be completed =	2,000	-

(a) This alternative involves the reduction by 1925 line miles of the total original figure, at a reduction in cost for the original magnetometer programme of £6,978.

(b) On the average of 143 line miles flown per week, this flying would be finished by the end of March, thus allowing the distinct possibility of examining all suitable magnetic anomalies during the coming field season.

TABLE IIALTERNATIVE PROGRAMME FOR MAGNETOMETER AIRCRAFT

Complete photo-mosaics numbers 6N (east of Macquarie Harbour only), 7N, 8N, 11N, and 12N. Photo-mosaics 15N and 16N west of the Prince of Wales Range and north of the line of the Princess River (on 16N) and then due westwards.

Photo-mosaics 15N and 16N provide an area of overlap with the "Canso" programme.