

5. REGIONAL COMPILATION PROJECT

This project was commenced in late 1979 as a joint venture between The Mount Lyell Mining and Railway Company Limited, the Electrolytic Zinc Co. of A'Asia Ltd., and Getty Oil Development Co. Ltd. The aim of the project is to provide a synthesis of all regional geological, geochemical, geophysical and metallogenetic data from the Mt. Read Volcanics, from north of Que River to South Darwin Peak. Such a compilation should assist a better understanding of the distribution, controls and geochemical/geophysical expression of mineralisation.

The following plans will be compiled at 1:50,000 scale:

1. Base Map:- showing A.M.G. co-ordinates; latitude and longitude; towns, main rivers and creeks, roads, tracks, railways; main peaks and lakes; trig stations; E.L. boundaries and major mining leases; drill hole collars; main mineral occurrences; permanent field camps.
2. Grid Base Map:- overlay to Plan 1 showing all exploration grids and grid names.
3. Fact Geology:- lithological outcrop distribution plan.
4. Generalised Geology:- simplified from Plan 3 and extrapolated beneath glacial cover.
5. Structural/Landsat:- structural features from Field mapping, aerial photography and Landsat imagery.
6. Geophysical Plans
 - 6.1 Aeromagnetics:- contours plus survey details
 - 6.2 Ground Magnetics:- contours plus survey details
 - 6.3 I.P. Coverage:- survey details
 - 6.4 I.P. Chargeability:- contours
 - 6.5 I.P. Resistivity:- contours
 - 6.6 Airborne E.M.:- anomalies plus survey details
 - 6.7 Ground E.M.:- anomalies plus survey details
 - 6.8 Airborne Resistivity:- contours plus survey details
 - 6.9 Gravity/S.P.:- anomalies and survey details
7. Geochemical Plans
 - 7.1 Soil Geochemistry:- single element plans for Cu, Pb, Zn and Mn comprising separate fact and anomaly plans
 - 7.2 Rock Geochemistry:- final format to be decided
 - 7.3 Stream Sediment Geochemistry:- final format to be decided.
8. Mineral Occurrences:- showing all occurrences by number indexed to card system.
9. Metallogenic Plan:- showing metallogenic symbol for each occurrence and indexed to card system.
10. Cultural Features:- showing survey control points, small mining leases, proposed dams and flooded areas, National Parks, State Reserves, Conservation Areas, power lines, pipelines, water races, aerial ropeways.
11. Topography:- 20 m topographic contours.
12. Alteration:- showing distribution of hydrothermal alteration suites.