

AIRBORNE SURVEY SPECIFICATIONS

MAGNETOMETER * 3 G-813 proton precession magnetometers in tail stinger and wing tips.
Sensitivity + 0.2 nT

RECORDING INTERVAL * 30m sampling

SPECTROMETER * GR - 800 gamma ray spectrometer
Volume + 16.8 litres
0.8 - 3.00 MeV

TOTAL COUNT WINDOW * 0.8 - 3.00 MeV

POTASSIUM WINDOW * 1.36 - 1.56 MeV

URANIUM WINDOW * 1.66 - 1.86 MeV

THORIUM WINDOW * 2.42 - 2.82 MeV

RECORDING INTERVAL * 60m sampling

DATA RECORDING * Geometrics 714 acquisition system.
Digital to magnetic tape.

NOMINAL TERRAIN CLEARANCE * All detectors in aircraft at 150m.

NOMINAL LINE SPACING * Traverse lines 500 metres.
Tie lines 10 km.

FLIGHT PATH RECORD * continuous tracking colour video.

FLIGHT LINE RECOVERY * Visually to 1:100,000 mosaic with Doppler interpolation between recovered points

GRADIENT ENHANCED MAGNETICS

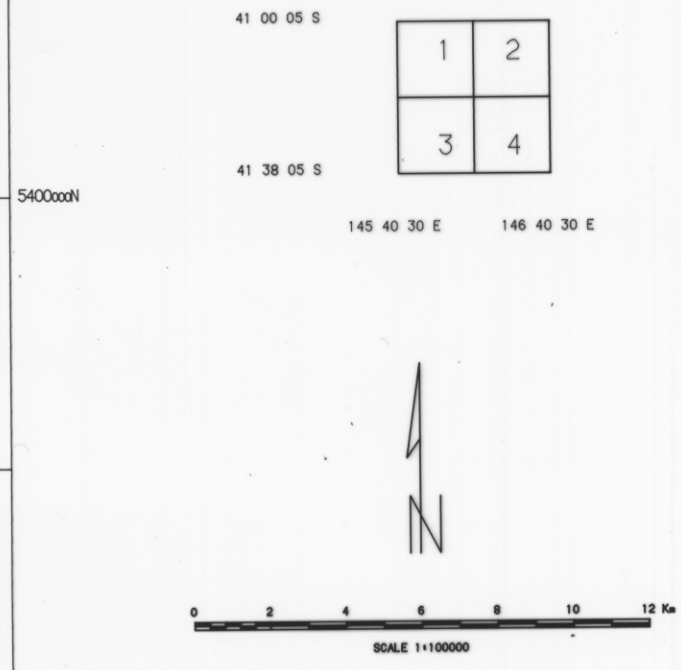
Grid notation refers to Australian Map Grid Zone 55
Digitised from mosaic at 1:100000

Magnetics * gradient enhanced
* from transverse gradient derived
* from 3 total field sensors

Altitude corrections have not been applied to gradients. This may account for some line dependent features in hilly areas

IGRF (1980) * Updated to December 1985
IGRF (1990) * Removed. Datum 2000 nT added

Grid mesh size * 100 x 100 metres
Grid filter * Polynomial, radius 150 metres
Contour Interval 5.0, 50, 100 and 250 nT



JOB NO + 9312
Flown by Geometrics International Corporation
November 1985
Processed by Engineering Computer Services, Bowral

TASMANIAN MINES DEPARTMENT

**DEVONPORT AREA
GRADIENT ENHANCED MAGNETICS
SHEET FOUR**

DATE + 26-MAY-86