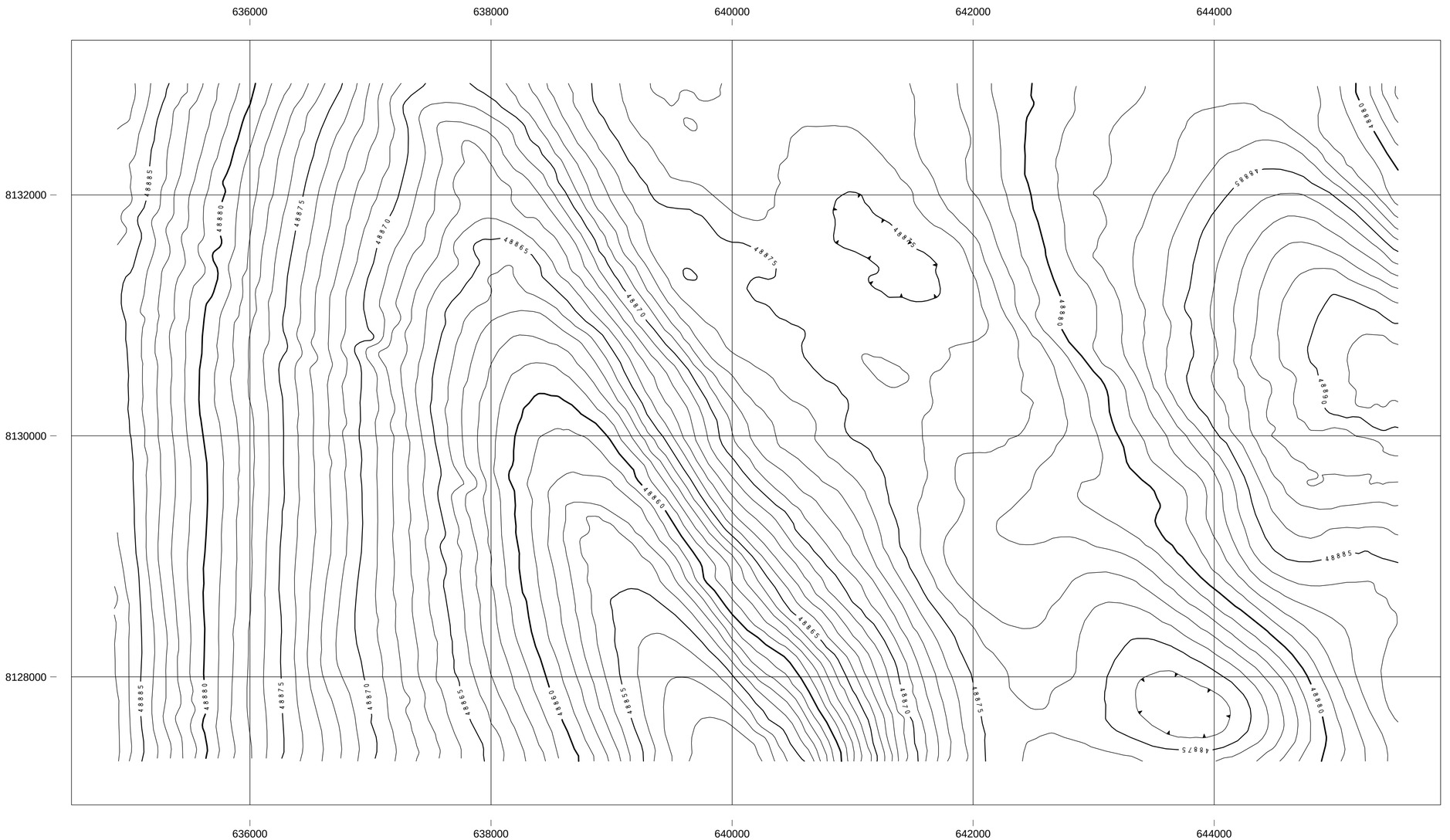

Job number: 1454
Company: ASHTON EXPLORATION AUSTRALIA PTY
Flown and compiled: AUGUST 2000 to SEPTEMBER 2000
Survey company: FUGRO AIRBORNE SURVEYS PTY LTD
Area name: TINTAGEL - area 2
Country: Australia
State: wa
Located data creation date: 26 Sep 2000
Area boundary:
635000 660000 660000 635000 635000
8112500 8112500 8132700 8132700 8112500

SURVEY SPECIFICATIONS

AIRCRAFT - VH-WGS CESSNA TITAN 404

MAGNETOMETER - Scintrex model CS-2 Cesium Vapour
RESOLUTION - 0.001 nanotesla
CYCLE RATE - 0.1 second
SAMPLE INTERVAL - 8.2 metres (average)

DATA ACQUISITION - Picodas PDAS-1000

FLIGHT LINE SPACING - 100 metres
FLIGHT LINE DIRECTION - 000 - 180 degrees
TIE LINE SPACING - 500 metres
TIE LINE DIRECTION - 090 - 270 degrees

SURVEY HEIGHT - 60 metres mean terrain clearance

NAVIGATION - GPS navigation system

FLIGHT PATH RECOVERY - Post-flight differentially corrected GPS

DATA PROCESSING

GEODETIC INFORMATION
DATUM: AGD84
PROJECTION: AMG ZONE 53
Central meridian: 135 deg.

CO-ORDINATES
Parallax correction applied: 0 fiducials.
Data used in processing is flagged as follows:
Recovery status: 0 interpolated position.
1 GPS located point.

MAGNETICS
Final magnetic intensity corrections:
IGRF model 1995 removed, base value added: 48980 nanoteslas.
IGRF has been calculated at an elevation of 280 metres above
the ellipsoid at time 2000.6 for each fiducial.
Diurnal correction applied: base value 48380 nanoteslas.
Parallax correction applied: 0.3 fiducials.
Levelled using tie line information.
Tie lines force levelled to the flight lines.

RADAR ALTIMETER
Parallax correction applied: 0.3 fiducials.

BAROMETRIC HEIGHT
Parallax correction applied: 0 fiducials.
A level correction using the linear drift between the
morning and afternoon test lines has been applied.

GPS HEIGHT
Parallax correction applied: 0 fiducials.

DIGITAL ELEVATION MODEL DATA

DIGITAL ELEVATION MODEL CALCULATION
The radar altimeter data was subtracted from the GPS heights to provide
a digitial elevation model which is height above the WGS84 spheroid.
Using AUSLIG Geoid model corrections for AHD1998, interpolated from a
120 second by 120 second grid, a correction was subtracted from the WGS84
data to convert to AHD1998.

RIO TINTO

Scale 1:25000

250 0 250 500 750 1000 1250 1500

metres

AGD84 / Australian Map Grid zone 53

RIO TINTO EXPLORATION PTY LIMITED

Carpentaria Diamonds

EL 7217 Kilgour

Airborne Magnetics
TMI Contours

Author:	D. Johnson	Ref:	Bauhinia Downs SE53-03
Drawn:	DMJ	File:	5\Carto\Plans\NTd\NTd 6853
Date:	11/05/2001	Report:	24534
Scale:	1:25000	Plan:	NTd 6853