

MEMORANDUM

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From: Jim Hanneson

Costing: ELA 23946, 23947

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Reference: AMG03/43

Subject: Gravity and Aeromagnetic Data for the Gosse 1 and Gosse 5 Prospects, Tennant Ck, NT, Gunson Resources Ltd ELAs 23946 and 23947

INTRODUCTION

With reference to regional data (Hanneson, 2003), this note presents gravity and aeromagnetic data for the Europa Prospect within the Tennant Ck 1:250,000 topographic sheet SE53-14. All coordinates are in MGA94, lat/longs are in GDA94, and elevations are in AHD71. All images show Gunson's ELAs 23946 and 23947.

DATA

The gravity data comprises 14 stations from the Northern Territory Open File (12 points from 2001 and 2 from 1965) and 96 new stations (100m and 200m spaced stations on two 600m spaced NS lines) collected in 2003 by Haines Surveys. The two data points from 1965 did not fit well within the modern data and were deleted. Figure 1 presents the gravity station elevations with the locations of the stations indicated by "x" symbols. Figure 2a presents the simple Bouguer gravity, reduced using a density of 2.67 gm/cc. Figure 2b is a residual gravity image created by smoothing the image in Figure 2a and subtracting the smoothed version from the original image.

Aeromagnetic data derives from a 1998 regional survey carried out by Kevron on behalf of AGSO, and it comprises 200m spaced north-south lines at 60m altitude. Figure 3a is an image of the TMI based on every third data point (interval 21m), after removal of the IGRF. The survey was carried out using AMG coordinates, which have been converted to MGA94 by adding 127m to all AMG eastings and 169 to all northings, as specified on the website (www.auslig.gov.au/geodesy/datums). Figure 3b is a residual.

DISCUSSION

Gravity station elevations are presented in Figure 1, and, viewed with the Bouguer gravity in Figure 2a and the residual in Figure 2b, no correlations are obvious that might suggest inappropriate data processing.

In the western block at Gosse 1, two lines of detailed gravity suggest a crescent shaped residual gravity high largely within a magnetic low, but the far northwest end may be magnetic. Compare Figure 2b with Figures 3a and 3b. Nearby at 472500E, 7812300N a circular magnetic low rimmed with a sharp magnetic high suggests a shallow reversely magnetised feature. In the east at Gosse 5, an ENE trending 1mgal gravity high occurs within a general magnetic low that might encompass two or three small localised magnetic highs. Both areas could host ironstone within zones of magnetite depletion.

REFERENCE

Hanneson, J.E., 2003, Assembly of Regional Gravity and Magnetic Data Sets with inclusion of Haines Oct 2003 Gravity, Tennant Ck, Gunson Resources ELAs 23944 to 23949; Memorandum AMG03/37 to D.N. Harley, 18 November

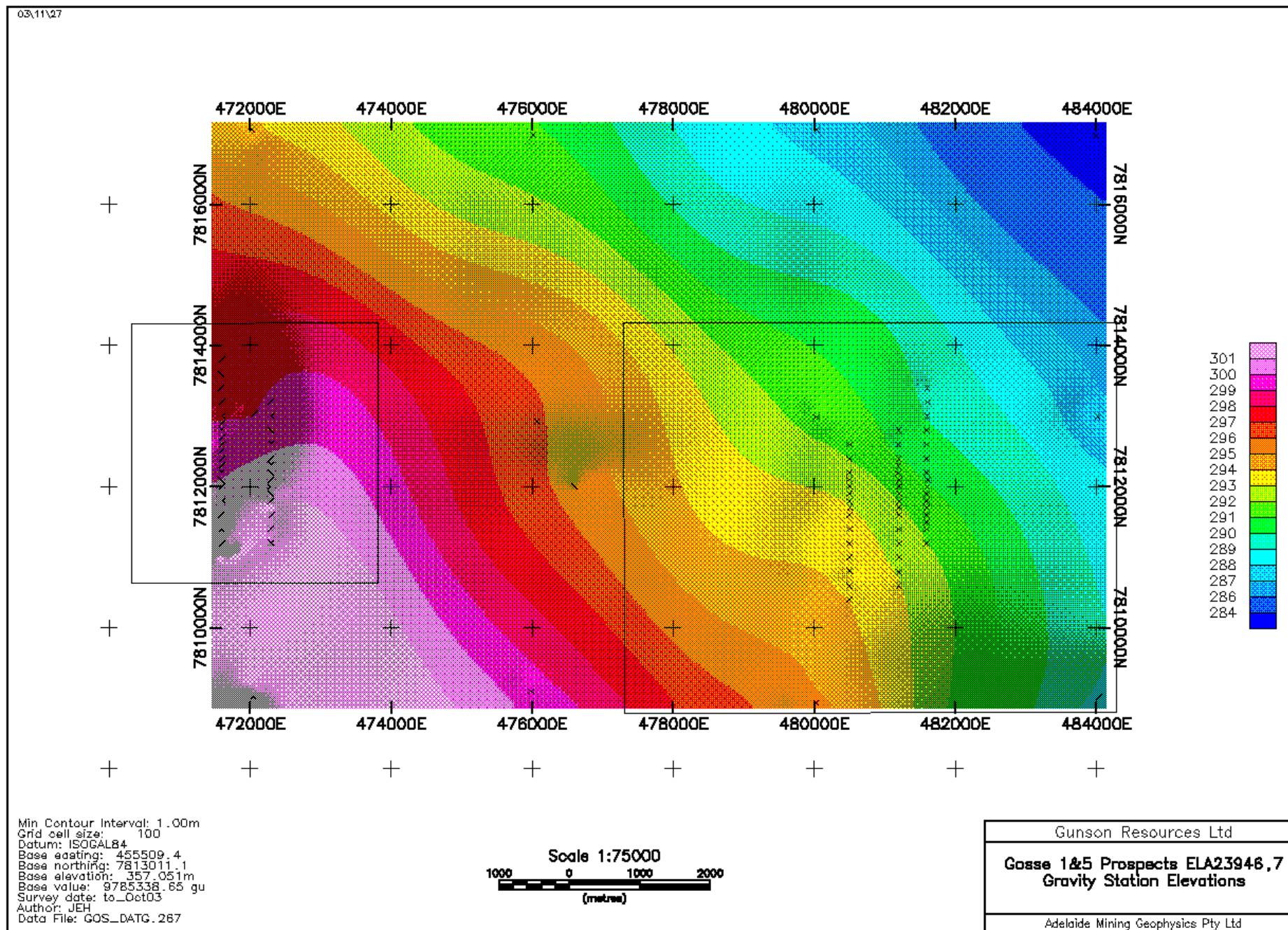
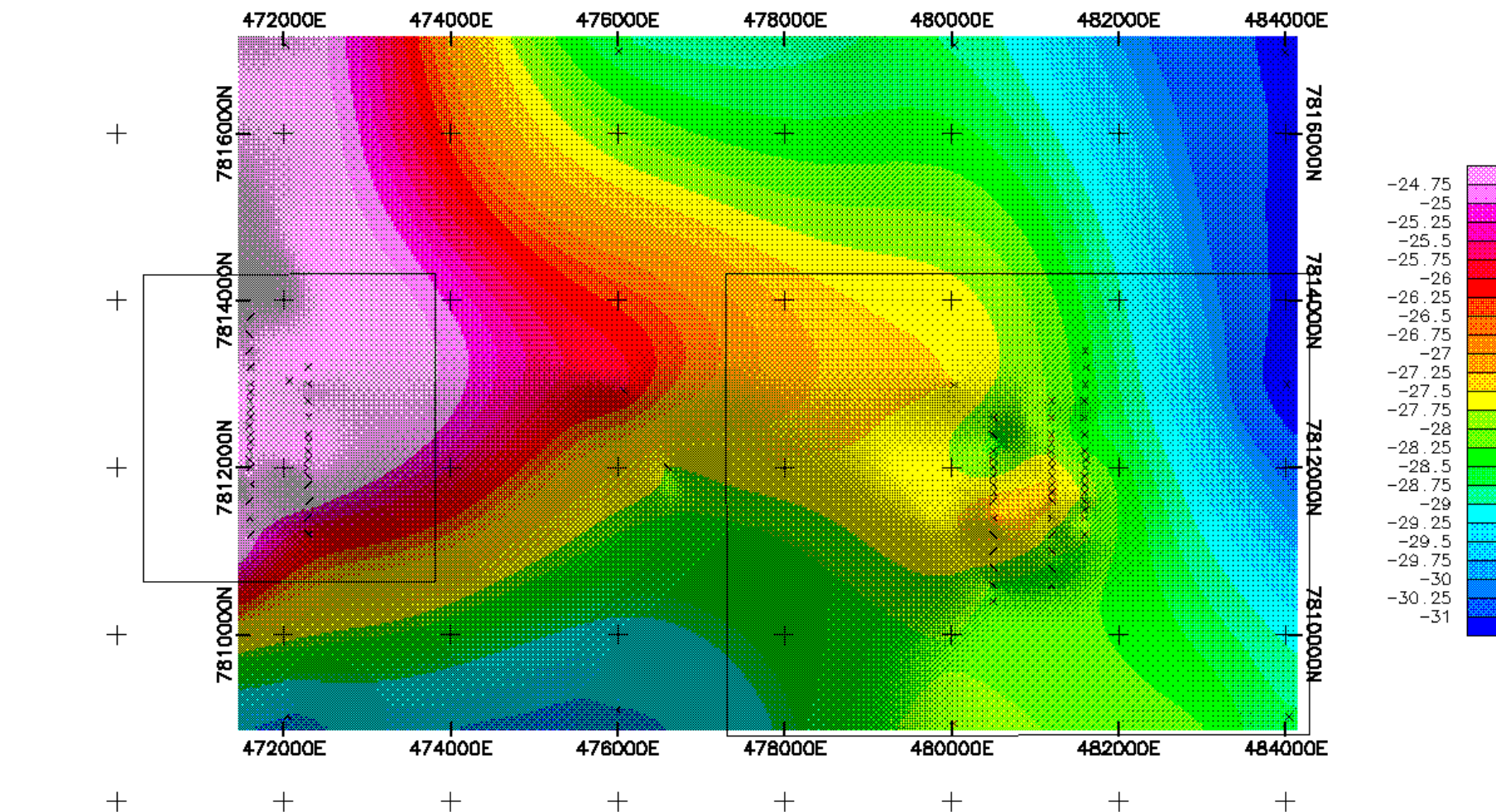


Figure 1



Min Contour Interval: 0.25 mgal
 Grid cell size: 100
 Datum: ISOGAL84
 Base easting: 455509.4
 Base northing: 7813011.1
 Base elevation: 357.051m
 Base value: 9785338.65 gu
 Survey date: to_Oct03
 Author: JEH
 Data File: GOS_DATG.267

Scale 1:75000
 1000 0 1000 2000
 (metres)

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Gosse 1&5 Prospects ELA23946,7
 Bouguer Gravity Map
 Density = 2.67gm/cc

Adelaide Mining Geophysics Pty Ltd

Figure 2a

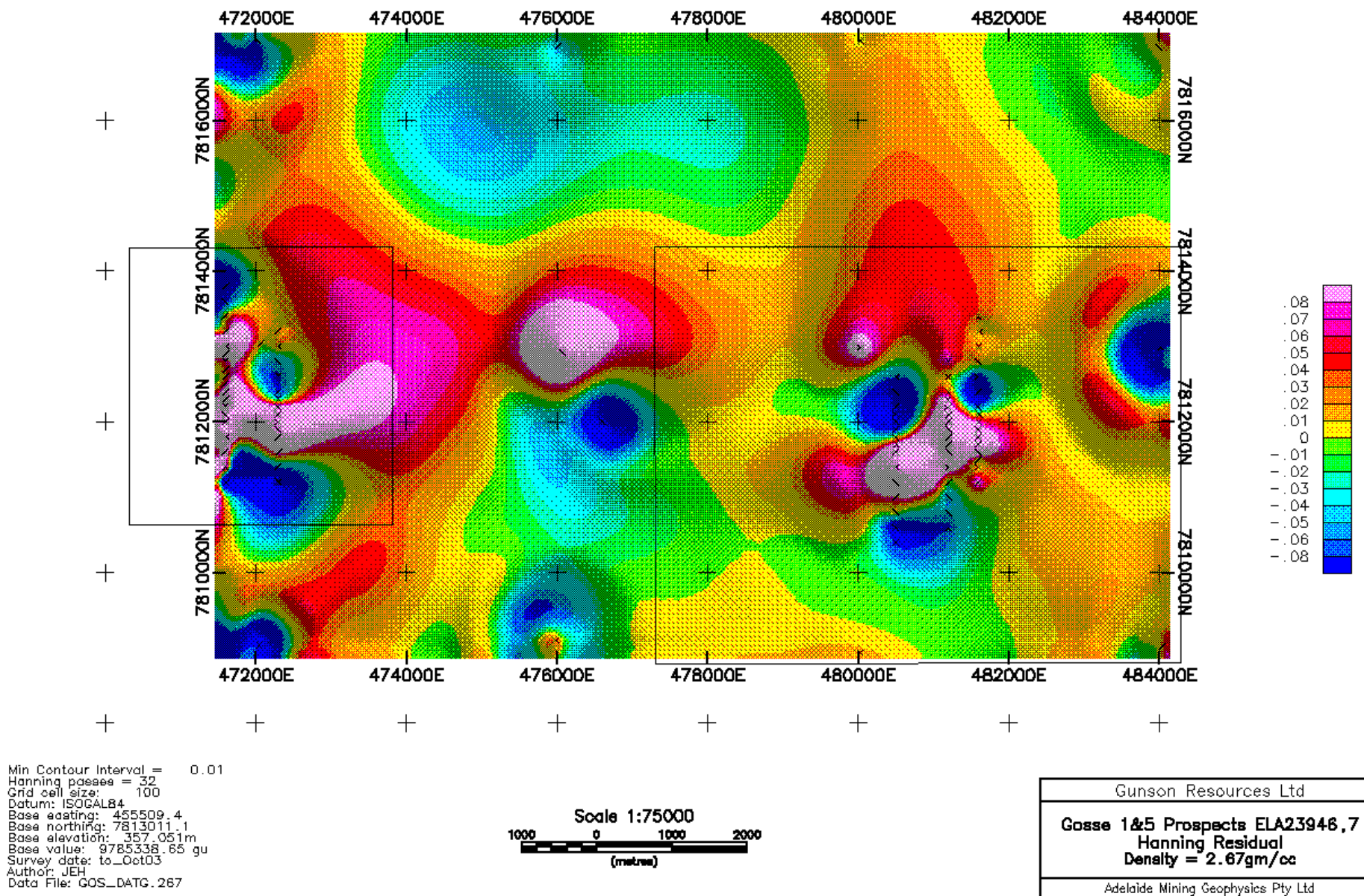


Figure 2b

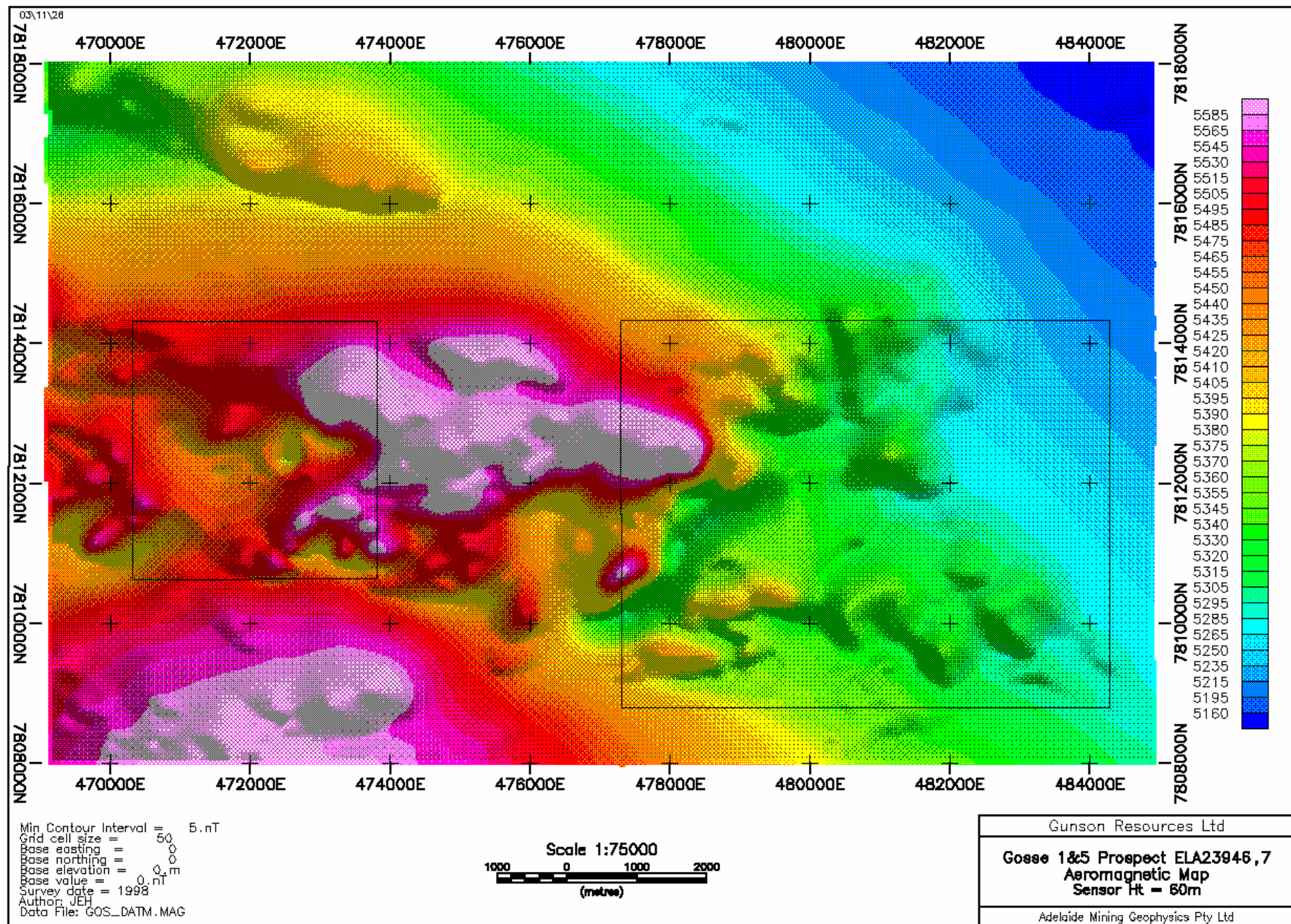


Figure 3a

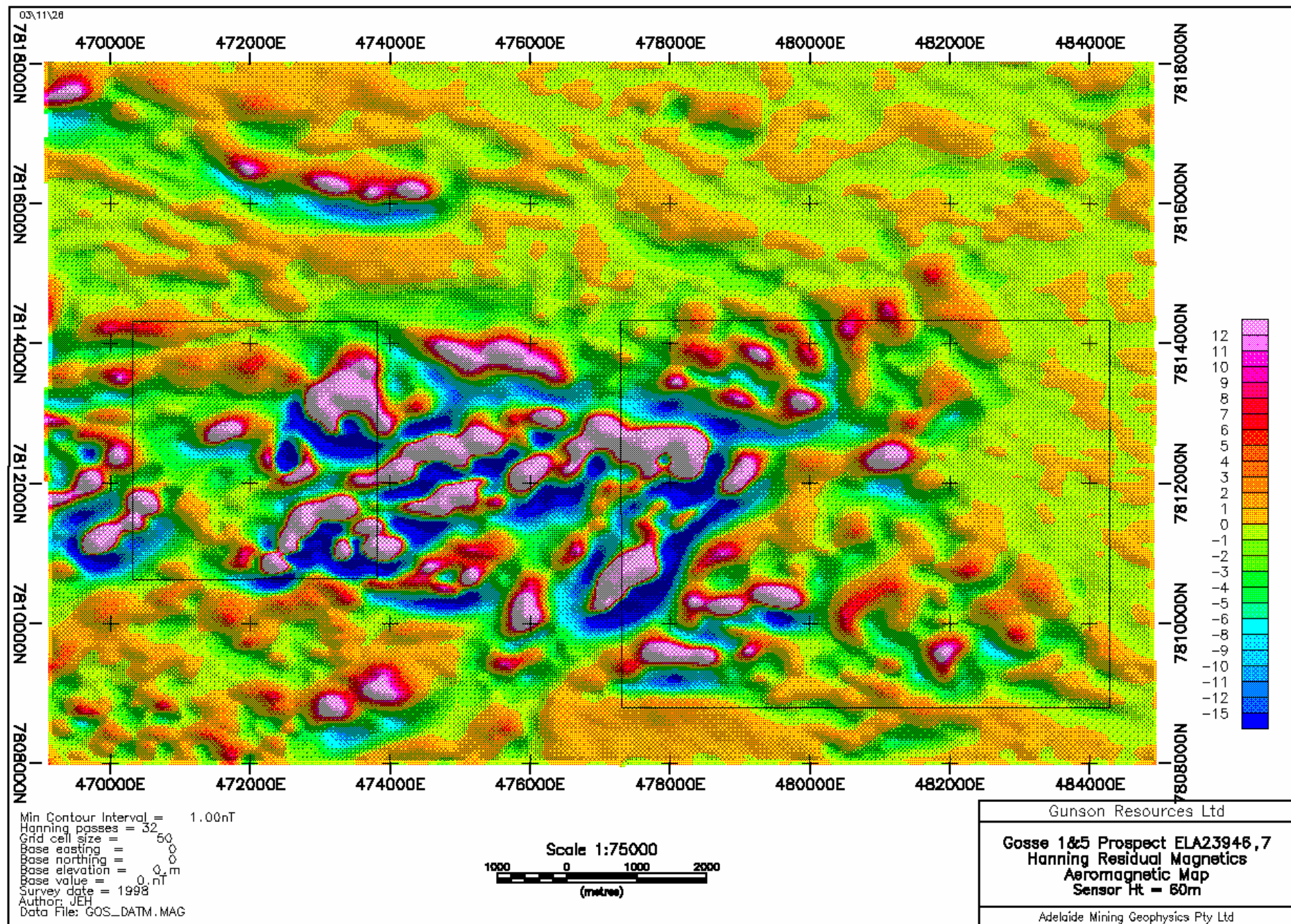


Figure 3b