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CORINNA PROJECT

EXPLORATION LICENCE NO 43/94
CORINNA, WESTERN TASMANIA

ANNUAL REPORT TO 4/1/98

Volume 1 of 3

Prepared by: N.J. Turner Geological Services Pty Ltd,
65 Lochner St, West Hobart, Tasmania, 7000

18 December 1997

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Vol 1 of 3

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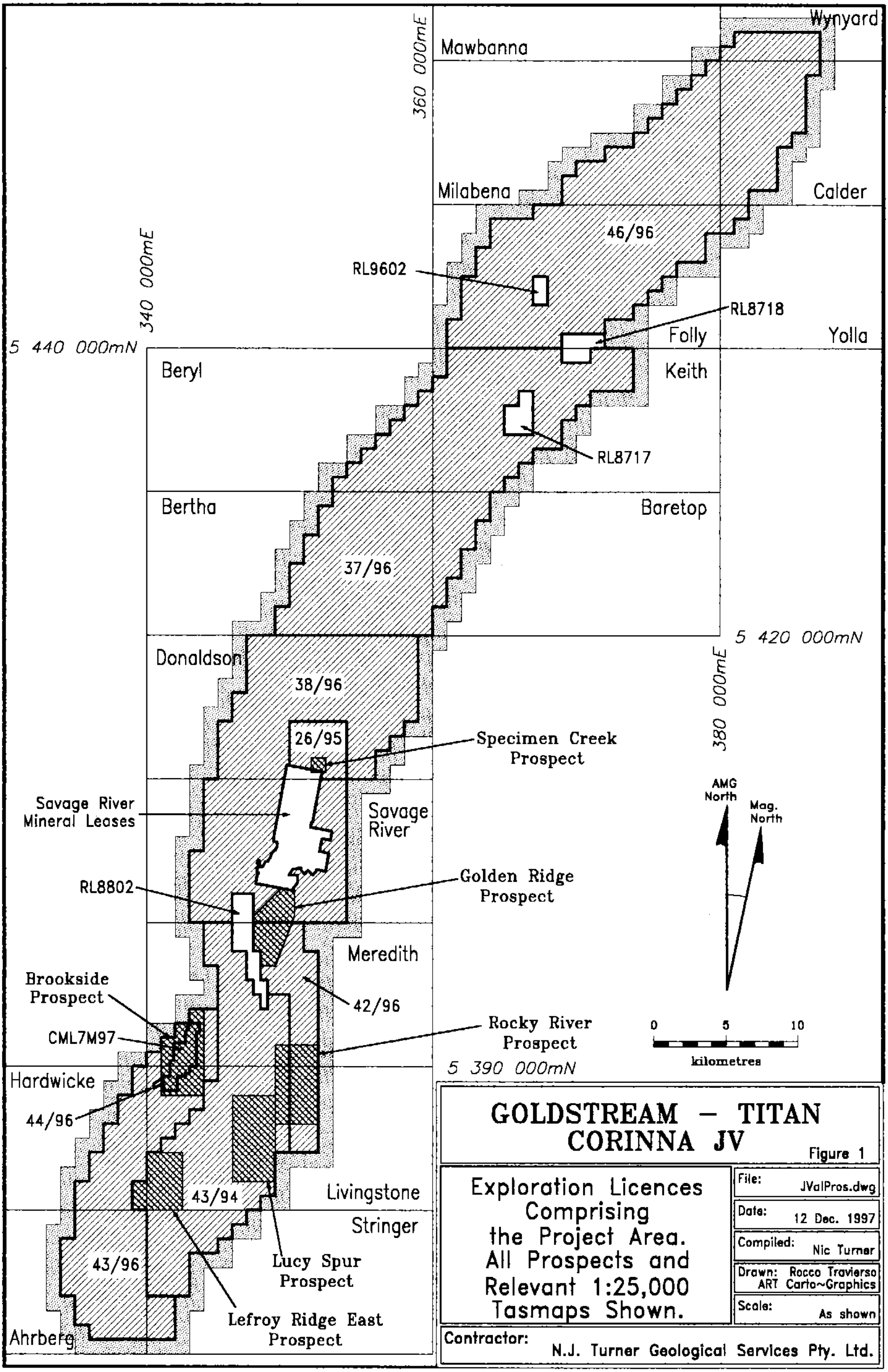
CONTENTS

LIST OF FIGURES

LIST OF APPENDICES

PLANS


Wynyard
Mawbanna
360 000mE
Milabena
Calder
46/96
RL9602
RL8718
Folly
Yolla
340 000mE
5 440 000mN
Beryl
Keith
RL8717
Bertha
Baretop
37/96
5 420 000mN
Donaldson
38/96
380 000mE
26/95
Specimen Creek Prospect
Savage River Mineral Leases
Savage River
AMG North
Mag. North
RL8802
Golden Ridge Prospect
Meredith
Brookside Prospect
42/96
CML7M97
Rocky River Prospect
0
5
10
kilometres
5 390 000mN
Hardwicke
44/96
43/94
Livingstone
Stringer
43/96
Lucy Spur Prospect
Lefroy Ridge East Prospect
Ahrberg
GOLDSTREAM – TITAN CORINNA JV
Figure 1
Exploration Licences Comprising the Project Area. All Prospects and Relevant 1:25,000 Tasmaps Shown.
File: JValPros.dwg
Date: 12 Dec. 1997
Compiled: Nic Turner
Drawn: Rocco Travierso ART Carto~Graphics
Scale: As shown
Contractor: N.J. Turner Geological Services Pty. Ltd.

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Summary

- Three selected areas in EL 43/94 have been investigated. Panned concentrate and minus 80 mesh stream sediment samples were collected at 334 sites. Approximately 2200m of first-pass diamond drill core (8 holes) was acquired and analysed.
- Sequences containing magnetite-bearing mafic metaigneous rocks are present at the Lefroy Ridge East and Rocky River Prospects. Intervals of massive to banded magnetite + pyrite ± silicate are also present at Rocky River. At Lucy Spur there is predominantly metasedimentary schist with a late granitoid body.
- First-pass drilling at Lefroy Ridge East returned a best value of 167 ppb Au. A best value of 500 ppb Au was obtained at Rocky River along with a widest anomalous interval of 16m averaging 40 ppb. Anomalous copper is also present in both areas.
- At Lucy Spur the best value returned from first-pass drilling in schist was 160 ppb Au along with widest anomalous intervals of 9m averaging 36 ppb, 12m averaging 73 ppb and 30m averaging 33 ppb. Channel sampling delineated an anomalous interval in altered granitoid of 10m averaging 110 ppb Au, 109 ppm Sb.
- Soil sampling, integration of all ground data with processed aeromagnetics, and interpretation should be carried out for all prospects.

2.0 Introduction

This report outlines the nature and results of work carried out during the Goldstream - Titan Joint Venture's second summer field season (1996-1997) in EL 43/94. Work for the 1997 - 1998 season was in progress on the due date of the report (4.1.98) and will be described in the next annual report.

Three particular areas in EL 43/94 were investigated during the 1996-1997 season. The areas around Lucy Spur and Rocky River were investigated because they had been shown to be anomalous in gold by reconnaissance stream sediment sampling carried out in the previous season. The Lefroy Ridge East area became of interest through an assessment of Goldstream's aeromagnetic data combined with a review of previous stream sediment work carried out by Fodina Minerals.

This report should be read in conjunction with the report on the 1995-1996 season (Turner, 1997a) which provides a background of tenement information, exploration concepts, tenement geology, historical mining and prospecting, and previous modern mineral exploration, as well as giving the results of the Joint Ventures reconnaissance stream sediment sampling program and aeromagnetic survey.

3.0 Tenement information

EL 43/94 is located in western Tasmania, just east and south of the township of Corinna. The licence has an area of 127 skm and is one of a number of contiguous licences which make up the Goldstream - Titan Joint Venture's Corinna Project (Figure 1).

EL 43/94 was granted on 3/2/1995. It will remain current to 3/2/2005, providing that the licencee's performance is deemed satisfactory by the Tasmanian Minister for Mines.

4.0 Previous work carried out by Goldstream and Titan

- Reconnaissance panned concentrate and minus 80 mesh stream sediment samples were collected at 115 sites between Browns Plain and the Pieman River. Some sites in Tertiary gravels were also sampled.
- The amount of travel damage displayed by gold grains in the panned concentrates was assessed; polished section and electron microprobe studies were also made of the gold grains. Local derivation of the gold inferred.
- Stream sediment samples were found to be elevated in gold around Lucy Spur, in the Owen-Meredith River to Paradise Creek section of Bowry Formation, and the Rocky River area.
- Detailed helimag with 50m line separation and 40m terrain clearance was acquired. Provides very good definition of magnetic rock units.
- Historical mining and prospecting was reviewed, also previous modern mineral exploration. BLEGs from the southern part of the Lucy formation encouraged interest in the Lefroy Ridge East area.

5.0 Work carried out by Goldstream and Titan, 1996-1997

5.1 LEFROY RIDGE EAST PROSPECT

5.1.1 Geology

The geological boundaries shown in Plan 2 are modified from previous Geological Survey maps by use of additional field data, including the Goldstream aeromagnetics. Bedrock in the prospect, and elsewhere in EL 43/94, is of Proterozoic age and was metamorphosed during the Cambrian Period.

Figure 2

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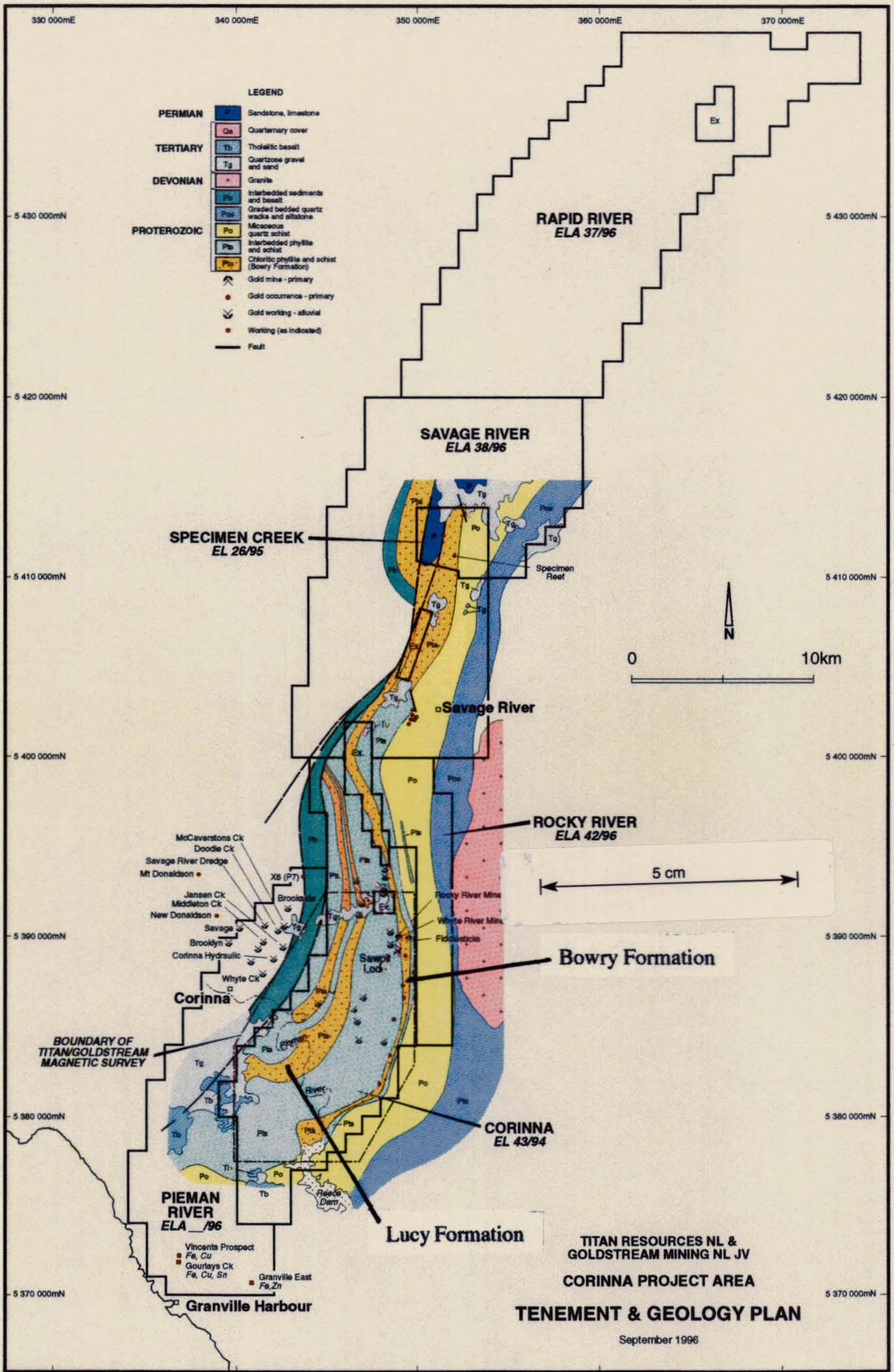


Morrison Associates (09) 321 8898

In the western part of the prospect gravel, sand, clay and basalt of Tertiary age overly the metamorphic bedrock which outcrops in most other parts of the prospect. The metamorphic rocks comprise the substantially mafic and magnetic Lucy Formation with un-named formations of more muscovitic, weakly magnetic schist on either side. Mafic rocks in the Lucy Formation include chlorite schist and relatively massive magnetite-bearing and pyrite-bearing metabasalt and metadolerite.

The metamorphic rocks are very strongly deformed with a strong S1 foliation which commonly displays metamorphic segregation in schists. Quartz vein boudins containing carbonate and chlorite are present in S1. A later crenulation cleavage (S2) is evident in places and may be related to the regional fold closures that are evident in the Lucy Formation in the north and south of the prospect.

5.1.2 Rock Chips

Only two rock chips from outcrop were analysed (Appendix 4). One of these, a chlorite schist, returned 24 ppb Au. A pyritic chlorite schist from LREDDH1 also returned an average 24 ppb Au (Appendix 4) whilst a metamorphically differentiated schist with chalcopyrite from the same drill hole returned 69 ppb Au and 3150 ppm Cu.

5.1.3 Stream sediment samples

Previous minus 16 mesh BLEG sampling by Fodina Minerals returned a gold value of 85 ppb from a site in the northern part of the Lefroy Ridge East Prospect, and a value of 10 ppb Au from a site in the southern part of the prospect. In the Goldstream - Titan program 68 sites (Plan 1) in the prospect were sampled by panned concentrate for gold and by minus 80 mesh for gold, copper, lead, zinc, arsenic, silver, antimony, bismuth, molybdenum, tin and tungsten. Sampling and analytical methods are outlined in Appendix 2 which also contains all the analytical results. Plan 2 shows gold in panned concentrate, gold in minus 80 mesh and silver in minus 80 mesh.

Panned concentrate assay values of greater than 75 micrograms (of Au per 9 litres of minus 4cm active stream gravel) are taken as anomalous. This corresponds to about 5 ppb for an estimated sample weight of 15kg. Anomalous pan. con. gold values are present throughout much of the northern part of the prospect. Anomalous values are also present in the south but are of more restricted extent.

In the northern creek which flows through 341000E5383130N there is an 800m long train of anomalous pan. con. gold combined with elevated to anomalous copper. The highest gold value of 4700 micrograms (about 310 ppb) and the highest copper value of 77 ppm occur together at 340850E5383100N (samples G815,816). The anomalous threshold for copper in the particular type of minus 80 mesh samples collected in this program is taken as 50 ppm (see Turner, 1997a). In the southern part of the prospect there is elevated copper of 17.5 ppm associated with the highest gold value of 5000 micrograms (about 330 ppb).

The association of elevated to anomalous copper with anomalous gold suggests that the two metals are derived from a common source. A copper association would not be expected with gold derived from the Tertiary gravels though a coincidental association of Tertiary gold and bedrock derived copper is possible.

Microscope examination of anomalous pan. cons. (Appendix 3) proved inconclusive in assessing the proximity of gold grains to their primary source. Most gold grains show moderate travel damage and thus appear neither close-to-source nor far-travelled.

Despite the presence of markedly anomalous gold in the active stream gravels, surprisingly little gold was found in trap sites in the northern and southern creeks at Lefroy Ridge East.

5.1.4 Aeromagnetic data

The folded nature of the substantially-mafic rocks in the prospect is readily apparent in contour plots (Figure 1 of Appendix 7) and relief shaded plots (Appendix 9) of total magnetic intensity derived from the Joint Venture's detailed aeromagnetics. Residual Hanning Filtered TMI reveals discrete magnetic intervals which probably correspond to particular lithological layers, for example, metabasalt layers with disseminated magnetite.

Transverse profiles across the contoured TMI data for the long limb of Lucy Formation which trends north through the prospect can be interpreted in terms of multiple magnetic layers dipping 70-75°E (Appendix 7). None of the layers is more magnetic than many basalts.

5.1.4 Diamond drilling

Two holes of nominally 200m depth were diamond drilled into magnetic highs in the Lucy Formation (Appendix 5). LREDDH1 was drilled into the long northerly trending limb from a position beside the Heemskirk Road. The hole was drilled eastward in the same direction as the inferred dip of the magnetic layering, but at a shallower angle of 50°. LREDDH2 was drilled westward into a magnetic high within the regional fold closure in the northern part of the prospect. An access track was constructed for LRDDH2.

Both drill holes penetrated similar lithologies of mainly chlorite schist and relatively massive metabasalt. Metabasalt with disseminated magnetite is reflected by higher magnetic susceptibility measurements and, in LREDDH1, by generally higher copper analyses. Gold was detected in 14 of the 200 assays from LREDDH1 with best values of 0.129 ppb with 2679 ppm copper at 153-154m and 0.155 ppb with 238 ppm copper at 77-78m. ppm?

Magnetite bearing metabasalt is more abundant in LREDDH2, dominating the top 140m of the hole. Detectable gold is also more abundant in LREDDH2 with values being returned from 70 of the 203 assays for the drill hole. Some 20 analyses gave ≥ 20 ppb gold , the best value being 0.167 ppb gold, with 77 ppm copper at 180-181m.

A Crone Pulse EM survey of LREDDH2 was carried out by Outer Rim Exploration Services (Appendix 8), A marked response was obtained in the upper part of the hole but further interpretation of the data is required.

5.2 LUCY SPUR PROSPECT

5.2.1 Geology

The geological boundaries in Plan 4 are based on the previous Geological Survey mapping, the Joint Venture's aeromagnetics and new field mapping which includes Appendix 1. Geological mapping is still in progress at Lucy Spur.

The rocks in the Lucy Spur area belong to an un-named formation which lies between the Lucy Formation in the west and the Bowry Formation in the east. Grey muscovite-rich schist and green chlorite-rich schist, both usually with quartz and albite, are the predominant rock types. There are uncommon small intervals of both quartzose schist and fine grained amphibolite with disseminated magnetite (?metabasalt).

Metamorphic segregation is usually distinct in the schists as mica-rich laminae and quartz-albite laminae (S1). Thin, possible primary banding is usually parallel to S1 along with very common quartz-carbonate-chlorite boudins. S1, banding and boudins are tightly folded with a spaced crenulation cleavage (S2) developed in the axial surface of the folds. S2 is the usual structural surface measured in the field. It dips steeply and trends fairly steadily north to north east, parallel to the boundaries of the Lucy and Bowry Formations.

A granitoid is present in, and around, the old adits near 347000E5384600N. It is an inhomogenious feldspar-phyric porphyry in which fairly sparse, creamy phenocrysts of feldspar up to about

20mm across are set in a fine grained matrix of quartz, feldspar and tourmaline. Crude banding is defined by felsic schlieren and by dark, ragged tourmaline-rich patches. Much of the granitoid is essentially breccia with the igneous material forming a matrix between numerous abraded lumps of schist.

The granitoid is partly greisenised. It is extensively fractured, commonly with limonite on the fractures, and it is cut by veins of milky quartz with limonite patches. In the vicinity of the adits the granitoid is a sheet-like body, dipping gently to the east and lensing out in that direction.

5.2.2 Rock chips and channel samples

Gold values of generally less than 20 ppb were returned from 34 samples of schist and quartz veins collected mostly in the northern and western parts of the Lucy Spur Prospect (Appendices 1,4). One schist sample from the north (G2286) returned 56 ppb gold. A group of three good values returned by schist samples G2273-2275 appears to be spurious because carefully collected repeat samples did not return significant gold though copper analyses repeated well. The initial gold results for the three samples may reflect contamination by detrital gold since the samples were collected from the bed of a creek that is strongly anomalous in pan. con. gold.

Chip samples of greisenised granitoid from the lower adit near 347000E5384600N returned interesting gold values of 705 ppb (G1284) and 435 ppb (G1285). A 4cm thick vein of milky quartz and limonite which cuts the altered granitoid returned 1630 ppb gold (G1287). Markedly anomalous antimony values of 130 ppm, 370 ppm and 1250 ppm were returned respectively by the two granitoid and one quartz vein sample.

Maximum gold values obtained from granitoid and quartz veins in the upper adit were 51 ppb and 84 ppb respectively. This includes only a few samples from the substantial stope which is off the end of the adit (Figure 1 of Appendix 1).

The upper and lower adits were each channel sampled from the portal to the inner end. Because of safety considerations the stope off the upper adit was not channel sampled. Samples of about 2 kgm weight were collected over each 2m interval of channel (Appendix 4). A 10m wide zone was delineated in the lower adit with anomalous metal values ranging 37-270 ppb gold and 43.5-250 ppm antimony. Copper is also anomalous. No comparable zone was identified in the adit of the upper workings where the mineralisation appears to be restricted to the stope.

5.2.3 Stream sediment samples
Anomalous gold of 75 micrograms (5 ppb approx.) or more in panned concentrates is widespread in the Lucy Spur Prospect where 245 sites have been sampled, 206 of them in the 1996-1997 season (Appendix 2).

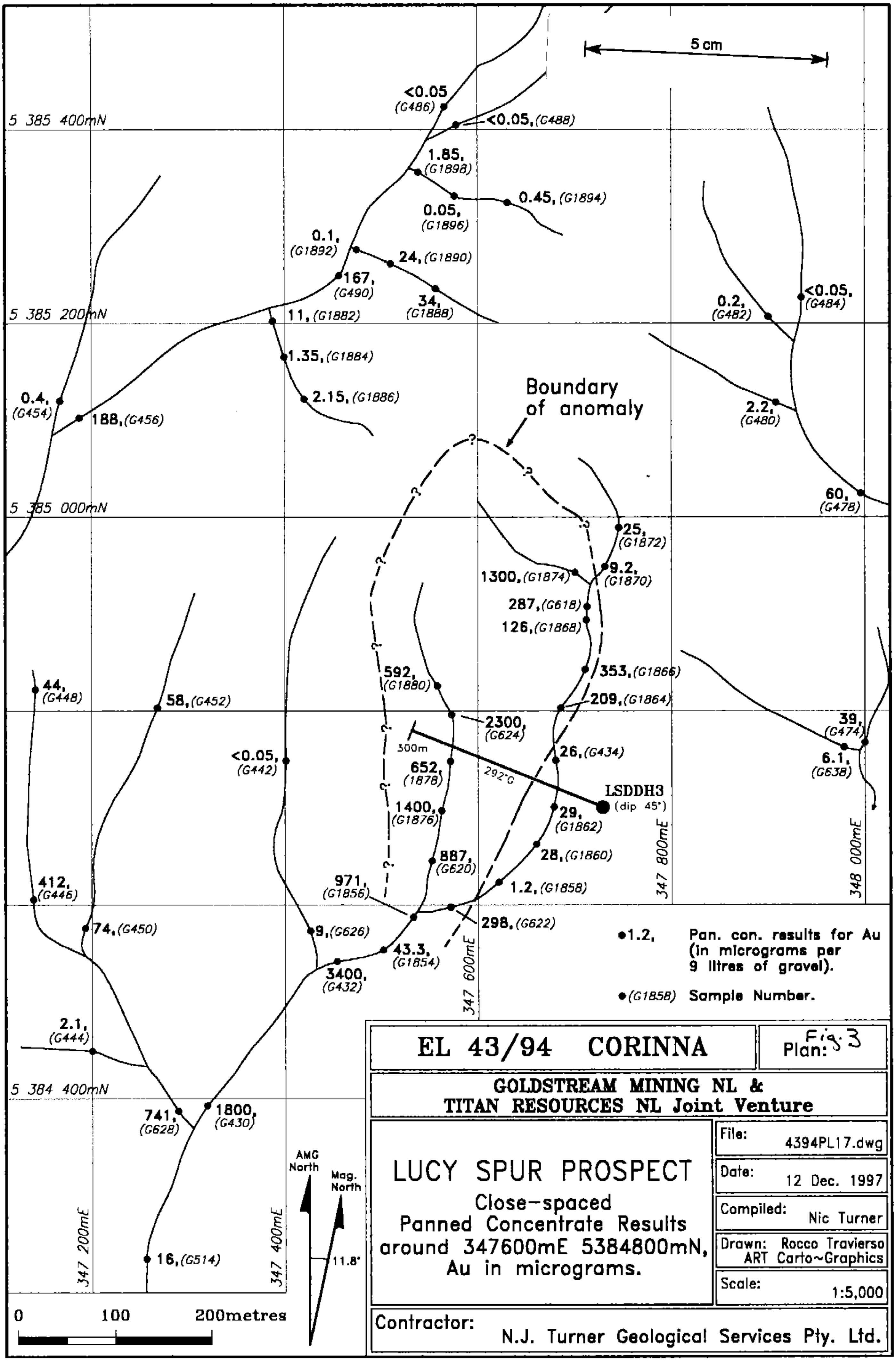
A notable train of anomalous pan.con. gold values starts in the upper reaches of Lucy Creek (Plan 4) around 347200E5386800N and continues upstream in a tributary where the maximum gold value returned from active stream gravel was 67000 micrograms (4467 ppb approx.). Several trapsite samples were also obtained from the tributary creek (Appendix 3). These samples contain abundant grains of both gold and rutile. An unusually large proportion of the gold grains exhibit major travel damage indicating that the gold is well travelled.

Another notable train of anomalous pan.con. gold values occurs 600m east of the Lucy Spur adits, near 347600E5384800N. The train passes upstream into the two uppermost tributaries of a creek system. The initial 200m pan. con. sample spacing was filled in at 50m intervals which substantiated the anomaly and allowed a boundary to be inferred around the probable area containing the anomaly's source (Figure 3). Diamond drill hole LSDDH3 was drilled into the inferred source area (Figure 4) and intersected a substantial interval of mildly anomalous schist with up to 110 ppb gold.

A train of moderate to low order anomalous pan. con. gold values is present in active gravel in East Lucy Creek around 346200E5384400N. Some very good trapsite samples were returned from the same area (Figure 1 of Appendix 3) including G2008 which contained 381 gold grains in 9 litres of trapsite gravel. Like the upper Lucy Creek trapsite samples, these samples contain abundant waterworn to perfectly angular, rutile crystals. Unlike the upper Lucy Creek samples the proportion of gold grains in these samples that shows major travel damage is minor, possibly indicating a closer primary source.

In the Lucy Spur Prospect, and elsewhere, there is generally anomalous minus 80 mesh gold (5 ppb cut-off) in areas where there is anomalous pan. con. gold. However, the relationship is far from one-to-one. Often pan. con. gold is minor at anomalous minus 80 mesh gold sites and **vice versa.**

The highest value of minus 80 mesh gold returned from the Lucy Spur Prospect was 380 ppb. It was obtained in conjunction with a moderate to low pan. con. gold value of 741 micrograms (50 ppb approx.) in a creek draining the area of the old adits. The only



EL 43/94 CORINNA	Plan: Fig 3
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture	
LUCY SPUR PROSPECT Close-spaced Panned Concentrate Results around 347600mE 5384800mN, Au in micrograms.	File: 4394PL17.dwg Date: 12 Dec. 1997 Compiled: Nic Turner Drawn: Rocco Travierso ART Carto~Graphics Scale: 1:5,000
Contractor: N.J. Turner Geological Services Pty. Ltd.	

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anomalous minus 80 mesh copper value returned from the entire Lucy Spur Prospect was 79 ppm in a tiny creek adjacent to the adits.

5.2.4 Diamond drilling

Holes LSDDH1 and 2 were drilled below the lower adit before the upper adit was found. Both holes passed below the granitoid. Drill hole LSDDH1 passed through muscovite-rich schist with uniformly low magnetic susceptibility (Appendix 5). Of the 200 core analyses from LSDDH1 42 returned detectable gold with 18 analyses ≥ 20 ppb. There is a consistently anomalous, 9m interval at 155-164m depth which has a maximum gold value of 70 ppb and averages 36 ppb. Copper values in the core are generally low and appear to be unrelated to the gold values.

Drill hole LSDDH2 also passed through muscovite-rich schist exhibiting uniformly low magnetic susceptibility. Of the 300 core analyses from this hole 100 returned detectable gold with 60 analyses ≥ 20 ppb. The 12m interval at 259-271 is consistently anomalous with a maximum value of 160 ppb and average of 73 ppb. Copper values are again low and appear to be unrelated to gold values.

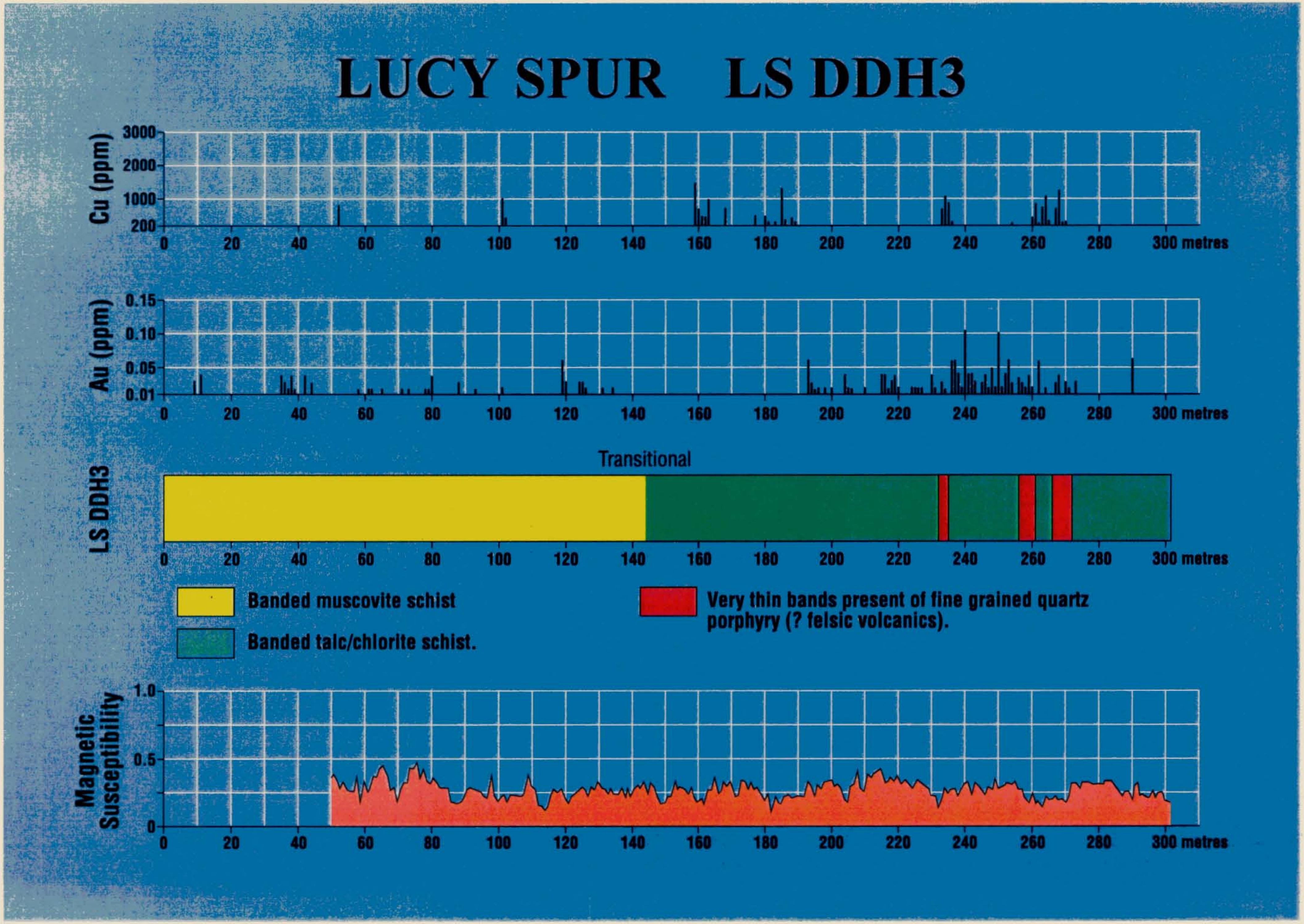
Drill hole LSDDH3 was drilled across the structural and magnetic strike, under the anomalous headwater tributaries east of the old adits (Figure 3). The hole is dominated by quartz-muscovite schist with variable chlorite and carbonate plus minor hematite, epidote and tourmaline (Appendix 6). Below a depth of 233m there are intervals containing scattered thin white bands which may be after felsic volcanics (Appendix 5).

Of the 300 core analyses from LSDDH3, 128 returned detectable gold with 82 analyses ≥ 20 ppb. The 30m interval 233-263m is fairly continuously anomalous with a maximum gold value of 110 ppb and an average of 33 ppb. In contrast with LSDDH1 and 2 there are substantial intervals of elevated and anomalous copper up to 1504 ppm in LSDDH3. Presumably these intervals reflect petrographically subtle lithological units. No clear correlation is evident between gold and copper values (Figure 4).

5.3 ROCKY RIVER PROSPECT

5.3.1 Data presentation

The western half of the Rocky River prospect is in EL 43/94 whilst the eastern half is in EL42/96 (Figure 1). Only the western half is described here. The eastern half is described in the Annual Report for EL 42/96 (Turner, 1997b)



LUCY SPUR LS DDH3
Cu (ppm)
3000
2000
1000
200
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 metres
Au (ppm)
0.15
0.10
0.05
0.01
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 metres
LS DDH3
Transitional
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 metres
Banded muscovite schist
Banded talc/chlorite schist.
Very thin bands present of fine grained quartz porphyry (? felsic volcanics).
Magnetic Susceptibility
1.0
0.5
0
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 metres

Figure 4

5.3.2 Geology
Sources for the geological boundaries in Plan 6 include the Geological Survey of Tasmania's Corinna map, new field data, previous mineral exploration work (see Turner, 1997a) and the Joint Venture's detailed aeromagnetics. From west to east there is a progression from the un-named schist formation that is present at Lucy Spur into the Bowry Formation, thence into the Oonah Formation.

The Bowry Formation consists largely of mafic rocks comprising mainly chlorite schist and relatively massive amphibolite. Near the western boundary of the formation there are intervals of schistose quartzite and boudinaged granitoid. Two magnetite-rich intervals in the formation are well depicted in the Residual Hanning Filtered TMI plot in Appendix 9. The western interval consists of a series of lenses whereas the eastern interval is continuous through much of the prospect. The eastern interval becomes discontinuous and may be folded near the northern boundary of the prospect.

The passage from the Bowry Formation boundary into the Oonah Formation is marked by an interval of metagabbro interbanded with muscovitic schist and minor quartzose schist. The schists are typical lithologies of the metamorphosed Oonah Formation which was derived from interlayered mudstone, siltstone and turbiditic sandstone.

5.3.3 Rock chips
A total of 25 rock chips was collected (Appendix 4). Seven returned assays ≥ 20 ppb Au. Four of the seven assays came from old workings in the Bowry Formation beside the Rocky River opposite Nolan Creek where a 1.5m wide quartz vein carrying sulphides was prospected in the early days. Three samples of the vein returned combined gold and copper of 220 ppb/210 ppm, 385 ppb/410 ppm and 34 ppb/1200 ppm.

A coarse grained silicate-magnetite-pyrite sample from the eastern magnetite rich interval in the Bowry Formation returned 24 ppb Au. Nearby, a mafic schist from a tributary of Cataract Creek that runs south along the eastern boundary of the Bowry Formation returned 78 ppb Au. A little further east, in Cataract Creek, a thinly banded, leached pyrite-silicate-?hematite-?carbonate rock from an old prospectors cut returned 140 ppb Au, 4500 ppm Cu and 56 ppm Ag.

5.3.4 Stream sediment samples
A total of 72 sites have been sampled in the western part of the Rocky River Prospect, 60 of these in the 1996-1997 field season.

Two markedly anomalous pan. con. samples were collected in the tributary of Cataract Creek that runs south along the eastern contact of the Bowry Formation (Plan 6). Values of 6300 micrograms Au (about 420 ppb) and 7900 micrograms Au (about 530 ppb) were obtained. Microscope examination of the former sample (G1060 in Appendix 3) showed that the gold displayed minor travel damage and had clay coatings on protected surfaces thus indicating a nearby source. In contrast, gold grains in anomalous pan. cons. from further upstream in Cataract Creek mostly display major travel damage and are associated with minerals typical of the Tertiary gravels.

Cataract Creek and its tributary near the Bowry Formation contact are well placed to have been important sources of gold in the Rocky River. Cataract Creek joins the Rocky River some 170m upstream of where McGinty's 7.5kg nugget was apparently found (see Turner, 1997a).

Markedly anomalous pan. con. gold occurs south of the Rocky River, near 349850E5387600N. Reworked Tertiary gravel is present nearby and the creek system is anomalous in tin. Although it is likely that the gold and tin were derived from Tertiary gravel, further checking is necessary because nearby rockchips returned anomalous copper and tin (Appendix 4,G1296,G1297).

5.3.5 Diamond drilling

Drill holes RRDDH1 and 2 were drilled westward beneath the tributary of Cataract Creek which runs along the eastern boundary of the Bowry Formation. RRDDH1 intersected metasedimentary phyllite and schist containing intervals of metagabbro to a depth of 144.8m (Appendices 5,6). The metasedimentary rocks are considered to be part of the Oonah Formation.

A distinctive interval composed of thin bands rich in magnetite, pyrite, silicate and carbonate is present at 105.2m-107m. Its presence in a sequence regarded as Oonah Formation unexpectedly demonstrates that iron formation is not entirely confined to the Bowry Formation. The interval returned gold values of 105 ppb and 90 ppb with 2251 ppm and 1344 ppm copper respectively. Silver values of 5-6 ppm are relatively high. The silver-rich rock chip G1294 appears to mark the outcrop of the interval in Cataract Creek.

At around 144.8m depth there is a rapid transitional passage from metasandstone with interbanded phyllite to more uniform metamorphic rocks of generally more mafic appearance. These more mafic rocks are assigned to the Bowry Formation. The protolith from which they were derived is yet to be determined (see Appendix 6).

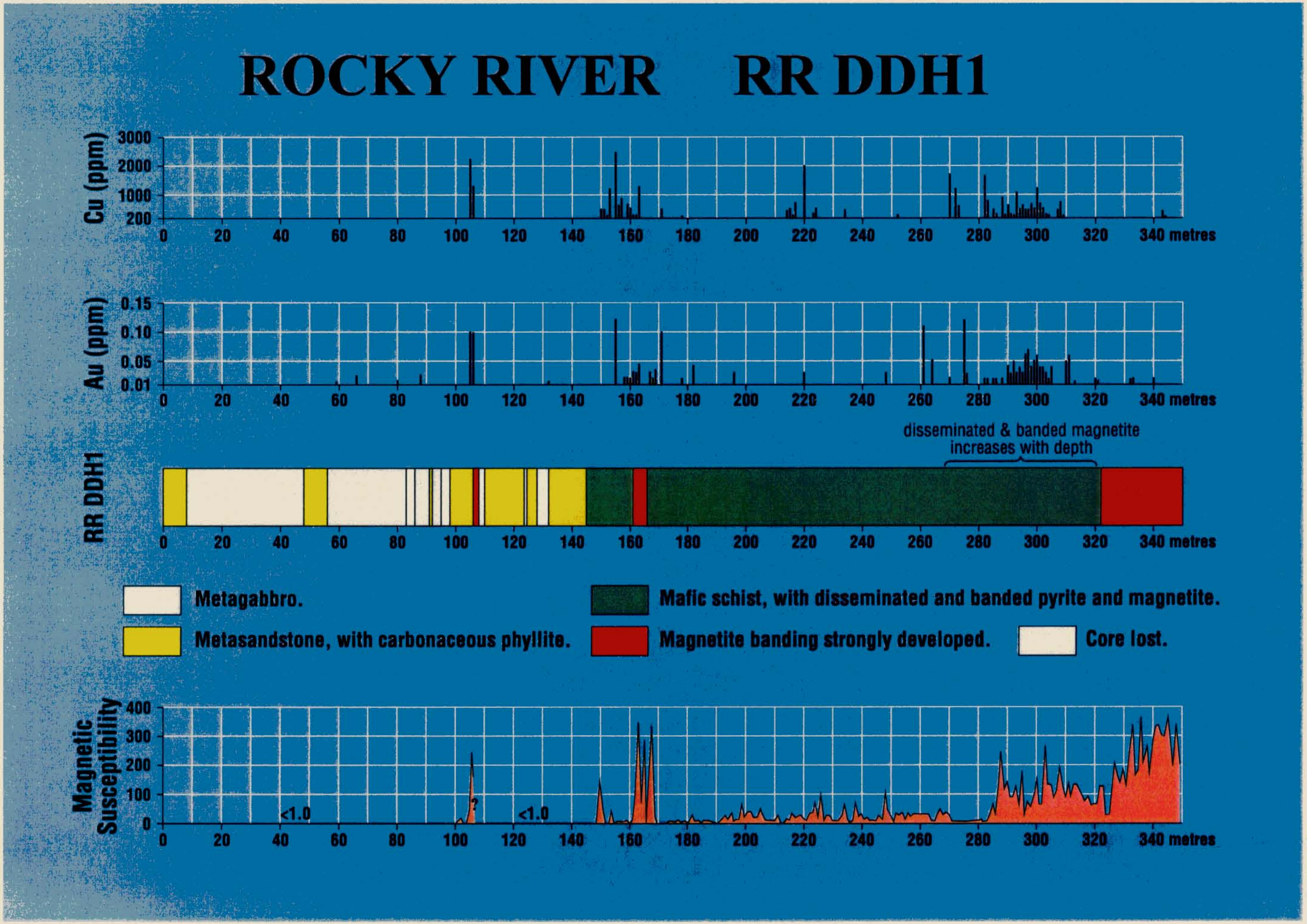


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Figure 5

Notable intervals of banded silicate-magnetite-pyrite occur at 160.6m-171.7m and from 322.5m to the bottom of the hole. Anomalous gold and copper occur in, and near, the former interval. The latter interval is poor in gold and copper but both metals are markedly anomalous in the zone of increasing magnetite enrichment which is just up-hole (Figure 5).

Of the 250 core analyses of the Bowry Formation in RRDDH1, 79 returned detectable gold with 60 analyses ≥ 20 ppb. A best value of 250 ppb Au with 4503 ppm Cu was returned from 155-155.5m whilst the 16m interval 290m-305m is continuously anomalous, averaging 40 ppb Au with a maximum of 70 ppb.

Although drill hole RRDDH2 intersected much the same rocks as RRDDH1, only 25 of the 370 core analyses from the hole returned detectable gold. A best value of 500 ppb Au was returned from 167m-167.5m. No anomalous intervals of notable length are present.

Drill hole RRDDH3 was drilled from the western edge of the Bowry Formation eastwards beneath the old Rocky River Mine workings. Rather than being a mine, these workings were developed for the purpose of prospecting a magnetite-rich formation which carried patchy gold and copper mineralisation (see Turner, 1997a).

RRDDH3 intersected predominantly mafic schist with numerous thin intervals of sheared and boudinaged granitoid to about 160m from where intervals of medium grained mafic gneiss become common in the mafic schist (Appendix 5). An interval of massive magnetite with intergranular pyrite and (?) barite was intersected at 75.4m-79m. The interval probably corresponds to the Sawpit Lode of the old prospectors whilst an interval of banded silicate-magnetite-pyrite-?carbonate at 251.25m-254m seems to be the lode that was prospected in the Rocky River Mine workings.

Neither of the iron-rich intervals gave significant gold assays. Copper is mildly anomalous, ranging up to 1339 ppm and 1136 ppm in the upper and lower intervals respectively. Of the overall 290 core analyses from RRDDH3, only 50 returned detectable gold with 22 analyses ≥ 20 ppb. The 10m interval 106m-116m is marginally anomalous with an average of 27 ppb Au. The 5m interval 141m-146m is anomalous, averaging 42 ppb with a maximum of 100 ppb.

6.0 Conclusions

Panned concentrate stream sediment sampling has delineated coherent trains of anomalous gold values in the northern creeks of the Lefroy Ridge East Prospect, in several parts of the Lucy Spur Prospect and around Cataract Creek in the Rocky River Prospect.

Anomalous minus 80 mesh gold in muddy, waning-flood deposits usually occurs in the same general areas as anomalous pan. con. gold but the relationship is not one-to-one. Elevated to anomalous minus 80 mesh copper is associated with the gold at Lefroy Ridge East and Rocky River but not at Lucy Spur. At Lucy Spur the bedrock sequence is predominantly metasedimentary whereas mafic metaigneous rocks are prominent in the other two areas.

Channel sampling in the lower adit at Lucy Spur has demonstrated that anomalous gold in the range 37-270 ppb is present in a 10m wide, altered zone in granitoid. Locally the granitoid has a shallowly dipping, sheet-like form. Its lateral extent has not been established.

First pass diamond drilling has demonstrated the widespread presence of anomalous gold in the metamorphic bedrock in EL 43/94. Upper limits are in the range 100-500 ppb. Drilling at Lucy Spur returned longer anomalous intervals of 9m averaging 36 ppb Au in LSDDH1, 12m averaging 73 ppb Au in LSDDH2 and 31m averaging 33 ppb Au in LSDDH3. At Rocky River a 16m interval averaging 40 ppb was intersected in RRDDH1. There is a gold-copper association with iron-rich intervals in RRDDH1.

Recommendations

Channel sampling and first pass drilling in a small part of the Lucy Spur Prospect has shown that there are intervals of anomalous gold in both granitoid and schist. A semi-regional soil sampling program is recommended as a method of testing for other, possibly more substantial zones of gold enrichment which may be contributing to the widespread anomalous pan. con. gold in streams throughout the prospect area. Similar soil sampling should be carried out around Cataract Creek in the Rocky River Prospect and in the northern part of the Lefroy Ridge Prospect.

Aeromagnetic data should be processed and interpreted with a view to identifying favourable structural settings for mineralisation. As a first step Residual Hanning Filtered TMI plots should be generated from the Joint Venture's helimag data. At a scale of 1:5000 for the prospects and merged with other data to allow production of 1:25000 regional plots.

7.0 Environmental matters

Significant clearing of predominantly regrowth vegetation took place at Rocky River and Lucy Spur in order to allow helicopter logistics and drilling activities. At Lefroy Ridge East DDH2 both the drill pad and about 850m of access for the tracked drilling vehicles were cleared in rainforest.

At Lucy Spur two drill pads and two helipads were cut. About 1100m of new access for the tracked drilling vehicles was cleared at Rocky River, as well as two drill pads. The vehicle access track from Browns Plain to the Whyte River was repaired, so too the 4WD track south of the Whyte River. Parts of both tracks were gravelled.

All drill pads and camps were tidied up at the completion of work. Drill holes LSDDH1 and 2 are making water which has been diverted into a nearby adit. A small metal garden shed remains at Lucy Spur. Rehabilitation of tracks and drill sites may be required in due course.

8.0 References

Nolan, H.D. 1996. Microscopic examination of gold particles in panned concentrate samples, Appendix 3 of Turner, N.J. 1997. Exploration Licence N° 43/94, Corinna, Tasmania. Annual Report 4.1.97. Goldstream Mining NL and Titan Resources NL. *Vol 2 of 3 of the Annual Report.*

Turner, N.J. 1997a. EL 43/94 Corinna, western Tasmania. Annual Report to 4.1.97. Goldstream Mining NL and Titan Resources NL.

Turner, N.J. 1997b. EL 42/96 Rocky River, western Tasmania. Annual Report to 29.10.97. Goldstream Mining NL and Titan Resources NL.

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EL43/94: Annual Report to 4.1.98

APPENDIX 1

NOTES ON THE GEOLOGY OF THE WESTERN AND NORTHERN PART OF THE LUCY SPUR PROSPECT (EL43/94)

by

Bruce Terry
Goldstream Mining NL
April 1997

254024

West Lucy

Aim

The aim of the field trip was four fold:

1. Map the geology in several creeks of interest (Figure 1A).
2. Find some source rock(s) to explain anomalous gold values from panned & stream sediment samples.
3. Find the source(s) for the Hanning filtered aeromagnetic anomalies.
4. Chip sample the upper adit west of DDH1 & DDH2 (Figure 1B).

The majority of the work was carried out in the area to the south and west of the old Lucy Spur hydraulic workings.

Metamorphic bed rock

The most common rock in the area is greenschist. This is dominantly quartz-albite-mica schist., while a minority of outcrops are a plain mica schist. In East Lucy Creek there is an outcrop of massive fine grained micaceous quartzite.

Other rocks of interest

There is an abundance of quartz in the creeks. It ranges in size from sand to boulders. The smaller sized debris is typically rounded (indicating a re-working from Tertiary gravels) while the larger alluvium is often angular (possibly sourced from the local schists where matching sized quartz boudins occur). This quartz is white, massive and barren of any sulphides to the hand lens.

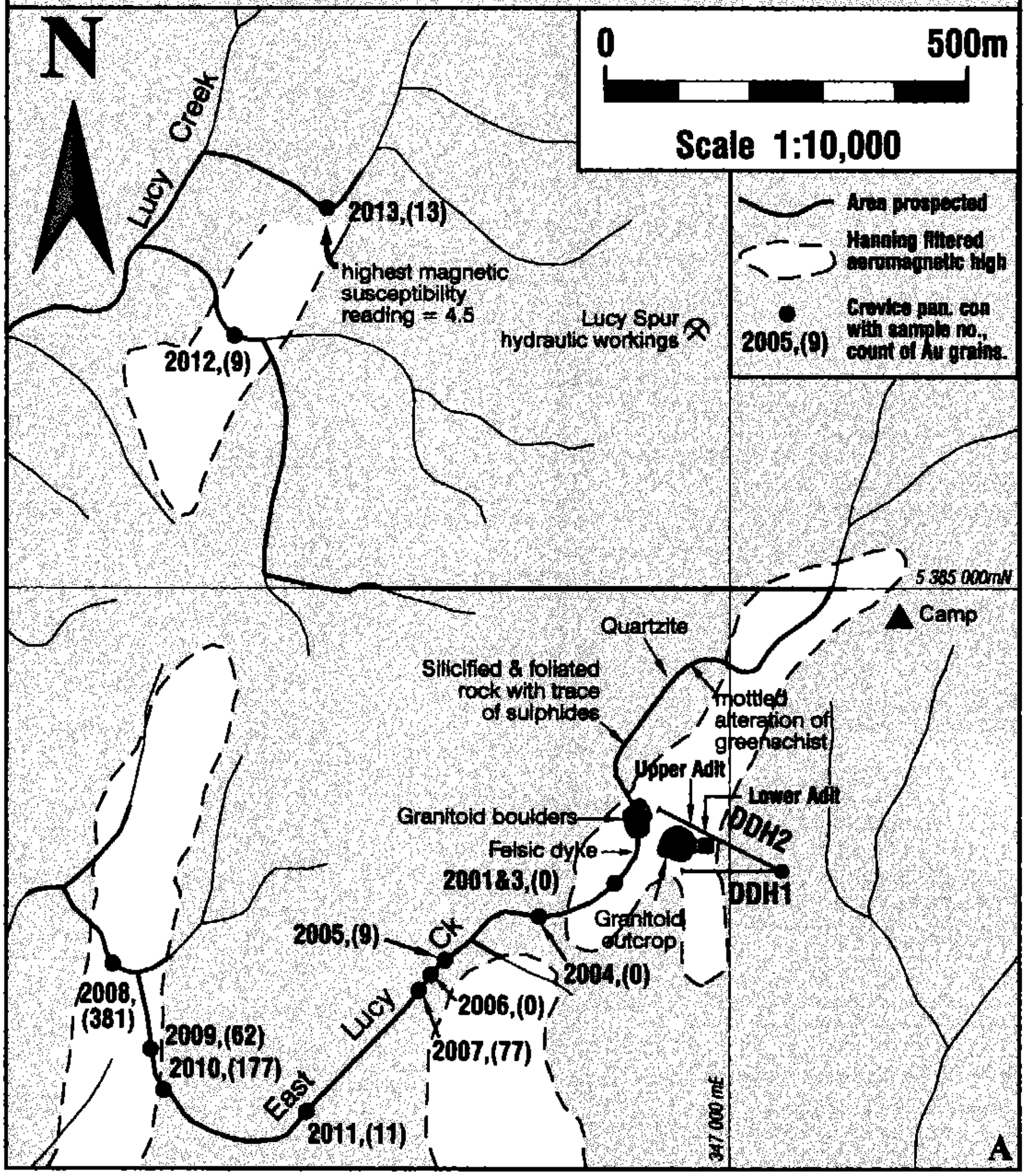
Associated with the Tertiary gravels is a silica cemented conglomerate. Several pieces of float were found, but no outcrop. This conglomerate is supposed to sit at the gravels- bedrock interface. Thus, it may be a potentially good unit to have accumulated some gold.

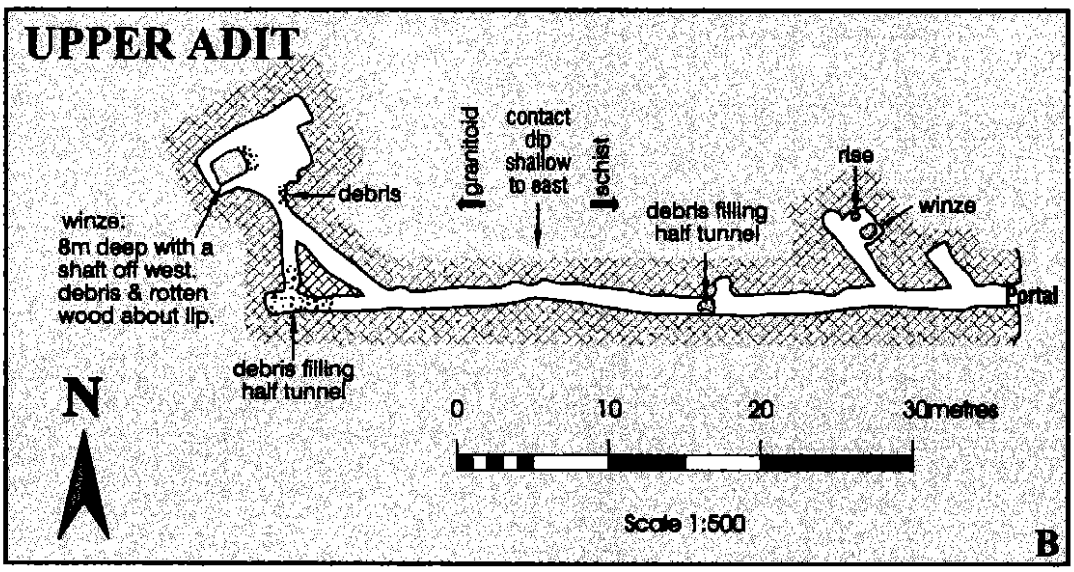
The region to the north and west of DDH1 & DDH2, bounded by the East Lucy Creek is of interest.
Granitoid - grey, quartz-rich, muscovite bearing. All samples have undergone weathering & the majority of muscovite would appear not to be primary. The granitoid outcrops at the top of the hill west of the upper adit. Adjacent in the East Lucy Creek there are common boulders of granitoid. Some banding & clots of mafic minerals (tourmaline?) are present.
Felsic dyke To the west of the granitoid is a narrow dyke (>1m) with small tourmaline clusters and a grey phase / inclusion of "granite". The dyke strikes 080°.

254025

5 cm

Figure 1: Western portion of Lucy Spur prospect showing
A. Aspects of geology, crevice samples B. 1897 adit





<u>Alteration</u> Down the East Lucy Creek (to the north of the granitoid), *there are two types of alteration. The first is a partial silicification while* the other is a soft, mottled cream-green rock.

Several pieces of quartz-feldspar open-space vein material were found as float in the creeks adjacent to the adits. The crystals are large & well formed.

Rock occurrences & aeromagmetic anomalies

A magnetic susceptibility meter was carried to test the rocks. Most of the greenschist registered <0.1. Quartz-albite-mica schists recorded higher values. Quartz-albite-mica schist rich in limonite and occurring within or directly adjacent to regions outlined by the Hanning filtered aeromagnetics had higher magnetic susceptibility readings. The highest reading was 4.5. Limonite bearing schist out of the aeromagnetic highs only had values <0.3 (approximately).

The limonitic schists generally are more resistant to erosion. They form trap sites within the creek from which some impressive amounts of gold were recovered by panning. (Figure 1A).

Upper adit chip sampling

54m of the south wall (Figure 1B) was chip sampled. The interval was started at the entrance. (G2217) and systematically sampled westward till the end of the main adit (G2243); using 2m intervals for each sample.

The large chamber or stope at the end of the adit has the best preserved textures although the rock is soft (weathered). The highest part of the roof would stand 4m above the floor. The stope was not channel sampled because of safety considerations.

The grey quartz rich granitoid partly fills interstices in an earlier, broken-up (brecciated), fine grained, cream/pink felsic rock (altered?).

Most of the adit is weathered & covered in grime apart from the stope. The grey, quartz-rich rock contains muscovite and inclusions which look partially aligned (foliated?).

Quartz veining is present. It displays iron staining & is associated with a soft orange vein material (calcite?).

Magnetic susceptibility values taken along the wall averaged *approximately 0.05.*

Sample Locations 254027

SAMPLE # AMG, Description
LOCATION

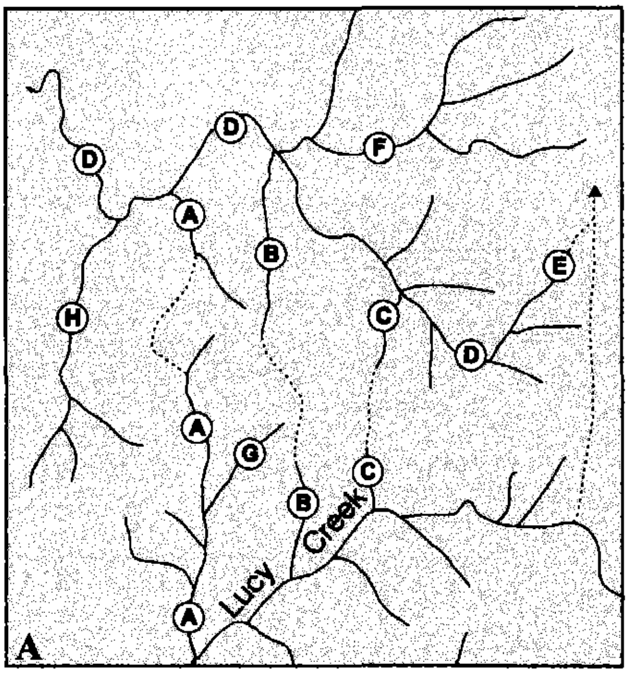
G2201 347250mE, 5384455mN
subcrop
Quartz-mica-schist, quartz boudinage & trace of pyrite
G2202 347010mE, 5384885mN
outcrop
Opaque quartz vein oriented 10° cutting greenschist foliation of 040°80E
G2203 346990mE, 5384895mN
outcrop
Altered rock soft & weakly foliated green-cream
G2204 346895mE, 5384830mN
outcrop
silicified greenschist?
G2205 346860mE, 5384800mN
outcrop
Altered greenschist green rock with patchy white bands & trace of sulphides
G2206 346870mE, 5384690mN
talus
Granitoid: grey, quartz-rich rock with muscovite
G2207 346875mE, 5384670mN
outcrop
Felsic dyke
G2208 346175mE, 5384470mN
outcrop
Quartz-albite chlorite schist with Fe-oxide coating
G2209 346100mE, 5384610mN
outcrop
Limonitic quartz mica schist with orange and black oxides
G2210 346080mE, 5384585mN to 346105mE, 5384570mN chip
G2211 346105mE, 5384570mN to 346135mE, 5384110mN chip
G2212 346135mE, 5384110mN to 346165mE, 5384070mN chip
G2213 346165mE, 5384070mN to 346185mE, 5384050mN chip
G2214 346185mE, 5384050mN to 346200mE, 5384010mN chip
G2215 346245mE, 5385455mN
outcrop
Limonitic quartz-albite-mica schist
G2216 346450mE, 5385525mN
outcrop

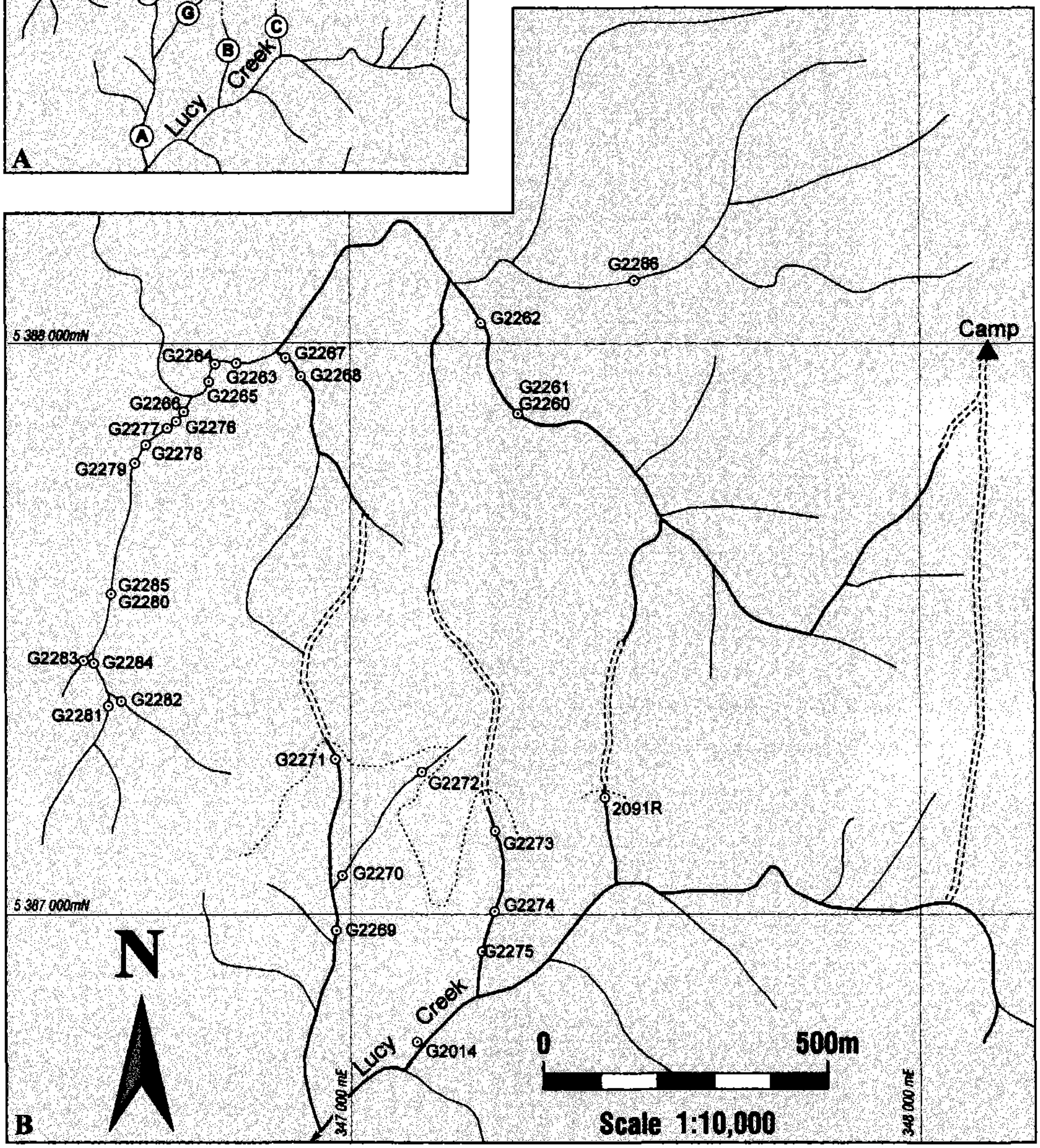
Ferruginous schist (quartz-albite-mica)
G2217 (entrance) to G2243 (end)
Chip samples, upper adit at~347000mE, 5384620mN
G2244 Upper adit. Veining: orange & soft weathered calcite? outcrop
G2245 Upper adit. Quartz veining commonly coated in fe-oxides outcrop
G2246 Upper adit. Granitoid intrusive, grey, quartz, rich outcrop
G2247 Upper adit. Tan-cream, altered host rock? outcrop
G2248 346960mE, 5384625? outcrop
Granitoid, grey, quartz-rich, strongly weathered
G2249 347165mE, 5384560mN Float
Quartz-feldspar? vein
G2250 346875mE, 5384640mN Float
Mafic, fine grained, tourmaline rich
G2251 34700mE, 5385700mN Float
Tertiary conglomerate: pebbles in silicified matrix

254029

Figure 2: Northern portion of Lucy Spur prospect showing A: Creek references used in text B: Cut lines and sample locations

⊙ G2262 Sample Location & Number
Water Race
Creek
▲ Camp
Cut Track
Cut Creek





5 cm

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Lucy North

Exploration was undertaken in the area shown in Figures 2 & 3. Sampling and mapping were done as well as a follow up to some anomalous gold values.

There is abundant quartz in the creeks, a mixture of rounded and angular alluvium. Most of the quartz is plain and white, while a minor component is grey with a fracture texture (very small). Rounded grey quartzite cobbles with quartz veining are common. Ironstone lumps/concretions are uncommon, occurring at several locations. Limonite may be present, replacing bedrock and cementing creek alluvium.
Old workings in the creeks ABDFG are extensive as piles of debris, trenches and a water race. Pan-concentrate samples show that gold is present in many of the creeks.

The dominant rock in the area is a quartz-albite-mica schist. Moderate to strongly foliated (steeply dipping, striking just east of north), with variable amounts of boudinaged quartz. Fresh outcrop is dark green with pale cream albite. Albite is typically small 1-2mm sized crystals/patches, though there are some units with more lenticular albite, disseminated pyrite and associated limonite and ironstone nodules.
Variable weathering and deformation between outcrops give different impressions e.g. more micaceous or the presence of albite.

In the northwest of the area there is a more massive albite-mica-schist; with a poorly defined foliation. Some disseminated pyrite is present also hematite and minor quartz veining + disseminated magnetite.

In the southern parts of area there are two different styles of alteration/weathering (near surface?)

1) Earthy salmon orange/red.
2) Black, with pyrite mineralisation.

With an exception of the plain white quartz; there are localities in creeks A and H which have large angular fragments (cobble/boulder) of vein quartz. Euhedral quartz crystals, some heamatite and minor vugs are present. The veining in creek H has the most abundant hematite mineralisation as well as some chalcedony.

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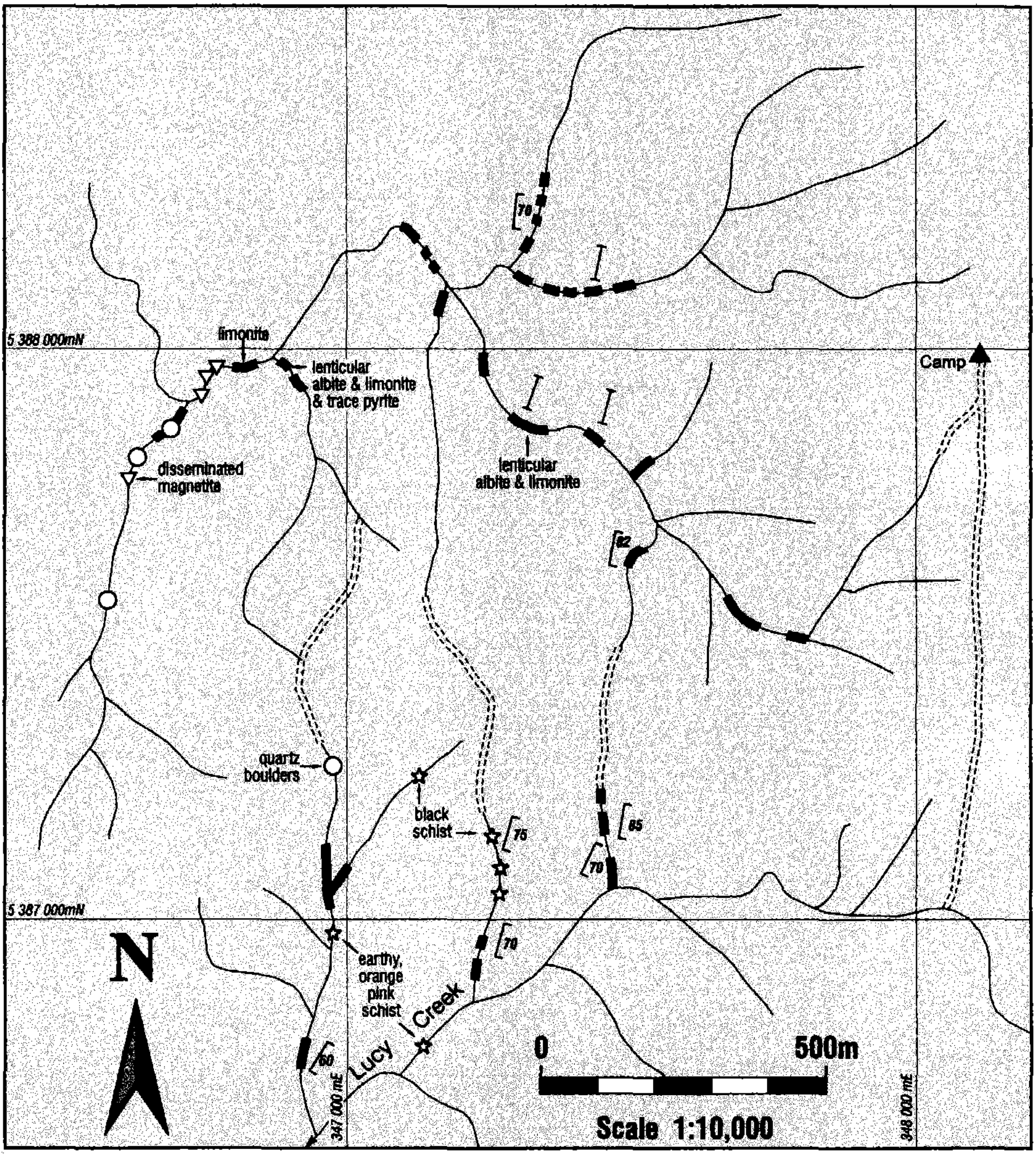
Figure 3: Northern portion of Lucy Spur prospect showing aspects of geology.

- Speckled greenschist with dark green chlorite - talc, light cream albite and minor quartz. Some quartz boudins. Some lenticular albite where limonite more common. Foliation well defined.
- ▽ Dark green, albite-bearing, relatively massive metamafic. Minor to trace of veining (quartz + "pale" stringers). Some disseminated to minor hematite associated with quartz veining, ±disseminated pyrite.
- ☆ Altered / intensely weathered schist. Black to earthy orange / pink.
- ○ Angular quartz vein alluvium ≥cobble-size. Euhedral crystals, minor vugs, minor to trace hematite.
- 82 Dominant foliation, probably mostly S2 - vertical, dip 82°.



5 cm

Sample Locations

SAMPLE	AMG mE	AMG mN	DESCRIPTION
G2260	347300	5387865	Chip sample over lenticular albite mica schist
G2261	347300	5387865	Limonite nodules/iron-stone
G2262	347235	5387865	Limonite nodules/iron-float
G2263	346780	5387980	Massive albite mica green schist with disseminated sulphides ½ weathered with Fe-oxides
G2264	346745	5387970	Albite green schist with small hematite bearing quartz veins
G2265	346725	5387950	Albite green schist with small hematite bearing quartz veins (3cm vein with trace hematite)
G2266	346695	5387885	Albite green schist + disseminated sulphides?
G2267	346875	5387970	Lenticular albite mica schist with disseminated pyrite?
G2268	346900	537950	Limonitic quartz-albite-mica schist with a trace of pyrite?
G2269	346975	5386955	Salmon, earthy orange schist
G2270	346980	5387055	Quartz-albite mica schist (no hand sample)
G2271	346980	587240	Vein quartz subcrop (?)
G2272	347115	5387230	Black weathered (?) schist (no hand sample)
G2273	347265	5387135	Black weathered (?) schist (no hand sample) with pyrite
G2274	347260	5387005	Quartz mica schist
G2275	347235	5386940	Black/red oxides in schist
G2276	346685	5387865	Quartz hematite vein float
G2277	346675	5387855	Quartz vein (?) in quartz mica schist with trace hematite
G2278	346620	5387820	Quartz vein float with 2° mica + felospar?
G2279	346590	5387800	Massive albite green schist + magnetite + trace pyrite
G2280	346550	5387565	Quartz chalcedony hematite vein float
G2281	346575	5387375	-80#, silt and gravel, no hand samples
G2282	346585	5387380	-80#, silt and sand, no hand samples
G2283	346495	5387455	-80#, no hand samples
G2284	346515	5387450	-80#
G2285	346550	5387565	-80#
G2286	347500	5388115	Quartz-albite rich portion of schist

254033

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APPENDIX 2

STREAM SEDIMENT SAMPLE NUMBERS, AMG CO-ORDINATES AND ANALYTICAL DATA FOR LEFROY RIDGE EAST, LUCY SPUR AND ROCKY RIVER PROSPECTS

Sample Types

1. Panned concentrate samples were derived from 9 litres of minus 4cm, active gravel collected in the stream bed.
2. Minus 80 mesh samples were derived from fine grained, muddy, waning-flood deposits usually collected in the stream channel. They were not sieved prior to laboratory processing.

Laboratory Processing

Amdel

1. Panned concentrates dried and pulverised to nominal minus 75 micrometres. Sample analysed to extinction by 50gm fire assay, GFAAS finish.
2. Minus 80 mesh sample dried, sieved and pulverised to nominal minus 75 micrometres. Gold determined by 50gm fire assay, GFAAS finish. Cu, Pb, Zn, As, Ag, Sb, Mo and Bi by aqua regia digest, ICP-OES/ICP-MS finish. Sn and W by XRF.

Analabs

Minus 80 mesh sample dried, sieved and pulverised to nominal minus 75 micrometres. Gold determined by 30gm fire assay, carbon rod. Cu, Pb, Zn, As by aqua regia/perchloric acid digest, AAS finish (Ag by ICPMS finish).

Note: Odd numbers are -80#, the following even number is a pan. con. taken at the same site.															
Au* units are micrograms per 9 litres of minus 4cm gravel.															
Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
		Units		ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		DL-Amd.	0.05	1	1	0.5	0.5	0.5	0.5	0.05	0.1	0.1	0.1	4	10
		DL-Ana.		1	1	2	3	2	0.5	0.05					
Lefroy Ridge East Prospect															
1996-1997 Samples; Analyst: Amdel															
340250	5380125	G537		<1		9	3	15	1	0.65	0.2	0.4	<0.1	12	<10
340250	5380125	G538	8												
340225	5380065	G539		<1		9	2.5	18.5	0.5	0.7	0.2	0.5	<0.1	18	<10
340225	5380065	G540	1300												
340350	5380175	G541		1		17.5	5.5	32	1	0.45	0.2	0.6	<0.1	12	<10
340350	5380175	G542	5000												
340575	5380140	G543		<1		11.5	4.5	26	0.5	0.45	0.2	0.6	<0.1	8	<10
340575	5380140	G544	10												
340575	5380225	G545		<1		13.5	4.5	25	0.5	0.3	0.2	0.3	<0.1	13	<10
340575	5380225	G546	885												
340375	5380465	G547		<1		5.5	2.5	8	<0.5	0.2	0.1	0.2	<0.1	23	<10
340375	5380465	G548	63												
340400	5380500	G549		2	3	5.5	2	8	<0.5	0.2	0.1	0.2	<0.1	7	<10
340400	5380500	G550	141												
340425	5380675	G551		<1		4.5	3	8.5	<0.5	0.15	0.2	0.4	<0.1	10	<10
340425	5380675	G552	20												
340475	5380825	G553		<1		3	1	2.5	<0.5	0.15	0.2	0.3	<0.1	5	<10
340475	5380825	G554	7.8												
340475	5380925	G555		<1		2.5	<0.5	1.5	<0.5	0.1	0.2	0.3	<0.1	7	<10
340475	5380925	G556	49												
340125	5380490	G557		3	3	2.5	1.5	2	<0.5	0.2	<0.1	0.2	<0.1	24	<10
340125	5380490	G558	19												
340650	5380325	G559		<1		8.5	2.5	11	<0.5	0.2	0.2	0.8	<0.1	9	<10
340650	5380325	G560	49												
340630	5380375	G561		<1		7	2	11.5	<0.5	0.15	0.2	0.6	<0.1	27	<10
340630	5380375	G562	3												
340750	5380600	G563		<1		7.5	5.5	9	2.5	0.15	0.3	1	0.2	<4	<10
340750	5380600	G564	62												
340790	5380725	G565		<1		5	2.5	6	1	0.1	0.2	0.6	<0.1	13	<10
340790	5380725	G566	1												
340750	5380725	G567		<1		4.5	1.5	6.5	<0.5	0.05	0.1	0.4	<0.1	<4	<10
340750	5380725	G568	<0.05												
340690	5380980	G569		<1		6	1.5	4.5	<0.5	<0.05	0.2	0.4	<0.1	6	<10
340690	5380980	G570	<0.05												
340650	5380950	G571		<1		5	1.5	5.5	<0.5	0.15	0.2	0.9	<0.1	19	<10
340650	5380950	G572	4												
340850	5380800	G573		<1		2	2	2.5	<0.5	0.1	0.1	0.2	<0.1	11	<10
340850	5380800	G574	28												
340900	5380850	G575		<1		2.5	1	1.5	<0.5	0.1	0.1	0.5	<0.1	13	<10
340900	5380850	G576	<0.05												
340925	5380925	G577		<1		1.5	1	4	<0.5	0.05	<0.1	0.1	<0.1	<4	<10
340925	5380925	G578	<0.05												
340900	5380950	G579		2		3	2.5	3	<0.5	<0.05	0.2	0.9	<0.1	130	<10
340900	5380950	G580	<0.05												
340285	5380250	G697		2		19.5	5.5	27.5	0.5	<0.05	0.1	0.3	<0.1	12	<10
340285	5380250	G698	43												
340200	5380200	G699		3	3	7	3	16.5	<0.5	<0.05	<0.1	0.3	<0.1	23	<10
340200	5380200	G700	50												
340190	5380200	G701		2		5.5	3	11	0.5	<0.05	0.1	0.4	<0.1	12	<10
340190	5380200	G702	340												
341075	5383175	G813		<1		34	12.5	54	1	0.15	0.3	0.7	<0.1	4	<10
341075	5383175	G814	1600												
340850	5383100	G815		<1		77	21.5	130	1	0.5	0.3	0.5	0.1	<4	<10
340850	5383100	G816	4700												
340650	5383050	G817		<1		44	11.5	41.5	1	0.2	0.4	1.1	<0.1	16	<10
340650	5383050	G818	726												
340475	5382950	G819		<1		31.5	9.5	25.5	2.5	0.1	0.3	2	<0.1	29	<10

254035

EL 43-94

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
340475	5382950	G820	527												
340850	5381535	G821		<1		5	1.5	3.5	<0.5	<0.05	0.2	0.8	<0.1	<4	<10
340850	5381535	G822	1.3												
340850	5381575	G823		<1		5	1.5	4.5	<0.5	<0.05	0.2	0.9	<0.1	<4	<10
340850	5381575	G824	67												
340940	5381515	G883		<1		2.5	0.5	2	<0.5	<0.05	0.1	0.4	<0.1	6	<10
340940	5381515	G884	<0.05												
341050	5381600	G885		<1		16	2	12	1	<0.05	0.4	2.1	<0.1	22	<10
341050	5381600	G886	1.5												
341075	5381575	G887		<1		7	4	25.5	1	<0.05	0.2	0.9	<0.1	<4	<10
341075	5381575	G888	2												
341125	5381740	G889		<1		4.5	1.5	6.5	<0.5	<0.05	0.2	0.8	<0.1	<4	<10
341125	5381740	G890	1												
341160	5381740	G891		<1		18.5	5.5	24	0.5	<0.05	0.3	1.5	<0.1	<4	<10
341160	5381740	G892	46												
341235	5381850	G893		<1		7	2	8.5	<0.5	<0.05	0.3	1.1	<0.1	9	<10
341235	5381850	G894	5.2												
341200	5381885	G895		1		5.5	2.5	8.5	<0.5	<0.05	0.2	0.8	<0.1	6	<10
341200	5381885	G896	10												
341065	5381900	G897		<1		6.5	2	9	1	<0.05	0.2	0.7	<0.1	<4	<10
341065	5381900	G898	<0.05												
341000	5381920	G899		<1		10	3	16	<0.5	<0.05	0.2	0.9	<0.1	9	<10
341000	5381920	G900	12												
341035	5381950	G901		<1		8.5	2.5	11.5	<0.5	<0.05	0.3	1.4	<0.1	5	<10
341035	5381950	G902	<0.05												
340600	5382415	G903		<1		13.5	8	15	1	<0.05	0.3	2.1	<0.1	110	<10
340600	5382415	G904	<0.05												
340650	5382425	G905		<1		10.5	11.5	16.5	1	0.05	0.3	1.1	<0.1	24	<10
340650	5382425	G906	<0.05												
340600	5382550	G907		<1		24	21.5	26.5	1.5	0.15	0.4	1.4	<0.1	7	<10
340600	5382550	G908	1.2												
340510	5382575	G909		10	L.N.R.	10	12.5	16	1	0.05	0.3	1.6	<0.1	L.N.R.	L.N.R.
340510	5382575	G910	0.1												
340775	5382275	G911		4		10.5	7.5	16.5	0.5	<0.05	0.2	0.6	<0.1	21	<10
340775	5382275	G912	469												
341025	5382175	G913		3		12	20.5	19.5	0.5	0.15	0.3	1	<0.1	<4	<10
341025	5382175	G914	150												
341065	5382200	G915		<1		11	6.5	31.5	<0.5	<0.05	<0.1	0.6	<0.1	<4	<10
341065	5382200	G916	42												
341175	5382325	G917		<1		6.5	3	10	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
341175	5382325	G918	185												
341145	5382350	G919		<1		13.5	7.5	15	0.5	<0.05	0.1	0.8	<0.1	<4	<10
341145	5382350	G920	256												
340900	5382175	G921		<1		11.5	9.5	19	1	0.1	0.2	1	<0.1	14	<10
340900	5382175	G922	146												
341150	5383300	G923		2		37.5	15.5	44.5	1	0.05	0.1	0.5	<0.1	<4	<10
341150	5383300	G924	327												
341260	5383480	G925		<1		25	9.5	29.5	0.5	0.05	0.1	0.6	<0.1	<4	<10
341260	5383480	G926	48												
341050	5383375	G927		4		59	26	62	1.5	0.1	0.2	0.9	<0.1	<4	<10
341050	5383375	G928	530												
341250	5383400	G929		1		29	10.5	70	0.5	0.05	0.1	0.8	0.1	<4	<10
341250	5383400	G930	1.2												
341225	5383400	G931		2		48.5	25.5	75	2.5	0.55	0.2	1.7	0.3	5	<10
341225	5383400	G932	26												
341400	5383490	G933		1		23.5	9.5	30.5	0.5	1.1	0.1	0.7	0.2	10	<10
341400	5353490	G934	211												
341425	5383475	G935		17		26	8	22.5	0.5	0.25	0.1	0.7	0.1	<4	<10
341425	5383475	G936	441												
341450	5383375	G937		2		56	12	34	0.5	0.1	0.1	0.6	<0.1	<4	<10
341450	5383375	G938	22												
341425	5383350	G939		<1		15.5	8	20	<0.5	<0.05	0.1	0.7	<0.1	<4	<10
341425	5383350	G940	2.15												
341450	5383140	G941		4		10	5.5	10.5	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
341450	5383140	G942	110												

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
341400	5383125	G943		<1		21	8	40	<0.5	0.05	<0.1	0.4	<0.1	<4	<10
341400	5383125	G944	1000												
341300	5382900	G945		3		20	8	30	<0.5	<0.05	0.3	0.5	<0.1	<4	<10
341300	5382900	G946	29												
341250	5382900	G947		2		11.5	6.5	18	<0.5	<0.05	0.1	0.6	<0.1	5	<10
341250	5382900	G948	36												
341200	5382875	G949		<1		23	9.5	58	0.5	0.05	0.2	0.3	<0.1	<4	<10
341200	5382875	G950	5.6												
341150	5382775	G951		5		19	7	11.5	0.5	<0.05	0.2	2	<0.1	14	<10
341150	5382775	G952	132												
340975	5382675	G953		<1		10.5	8	12	<0.5	<0.05	0.1	0.7	<0.1	25	<10
340975	5382675	G954	1500												
340850	5382725	G955		4		13	21.5	13.5	1	<0.05	<0.1	0.5	<0.1	<4	<10
340850	5382725	G956	2.15												
Lucy Spur Prospect															
1996-1997 Samples; Analyst: Amdel															
347225	5386900	G353		8		5	0.5	1	<0.5	0.05	<0.1	0.2	<0.1	<4	<10
347225	5386900	G354	3400												
347265	5387050	G355		2		1.5	<0.5	1	<0.5	0.1	<0.1	0.3	<0.1	<4	<10
347265	5387050	G356	67000												
347560	5387025	G357		10		10	1.5	3.5	0.5	0.05	0.1	0.6	<0.1	<4	<10
347560	5387025	G358	142												
347690	5386900	G359		5		6.5	2	2.5	1.5	0.05	0.2	0.8	0.1	<4	<10
347690	5386900	G360	224												
347600	5387050	G361		7		3	0.5	<0.5	<0.5	<0.05	0.1	0.6	<0.1	<4	<10
347600	5387050	G362	9.5												
348110	5386975	G363		6		2.5	1	0.5	<0.5	<0.05	<0.1	0.5	<0.1	<4	<10
348110	5386975	G364	277												
348135	5386850	G365		4		3.5	1	0.5	<0.5	<0.05	<0.1	0.4	<0.1	<4	<10
348135	5386850	G366	8.5												
347900	5387025	G367		7		3	1.5	2	<0.5	<0.05	0.1	0.7	<0.1	8	<10
347900	5387025	G368	6												
347925	5387010	G369		2		2.5	0.5	<0.5	<0.5	<0.05	<0.1	0.4	<0.1	<4	<10
347925	5387010	G370	1.6												
347850	5387050	G371		10		4	3	2.5	<0.5	<0.05	0.2	0.7	<0.1	<4	<10
347850	5387050	G372	1.75												
347375	5386925	G373		2		4	2	1.5	<0.5	<0.05	0.1	0.6	<0.1	<4	<10
347375	5386925	G374	66												
347475	5386800	G375		1		2	1	<0.5	<0.5	<0.05	<0.1	0.2	<0.1	4	<10
347475	5386800	G376	3.05												
347250	5386850	G377		<1	<1	2	1	1	<0.5	<0.05	<0.1	0.5	<0.1	<4	<10
347250	5386850	G378	23												
347465	5387075	G379		<1		2.5	1	2.5	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
347465	5387075	G380	165												
347500	5387050	G381		<1		2.5	0.5	1	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
347500	5387050	G382	46												
347570	5387040	G383		8		5.5	1.5	6.5	<0.5	<0.05	0.1	0.7	<0.1	<4	<10
347570	5387040	G384	9.5												
347210	5386655	G385		2		3.5	1.5	2.5	<0.5	<0.05	<0.1	0.6	<0.1	4	<10
347210	5386655	G386	207												
347270	5386510	G387		11		3	2	1	<0.5	<0.05	0.1	0.6	<0.1	<4	<10
347270	5386510	G388	0.15												
347290	5386520	G389		<1		2.5	1.5	2	<0.5	<0.05	<0.1	0.5	<0.1	15	<10
347290	5386520	G390	747												
347400	5386425	G391		1		8.5	1	0.5	<0.5	<0.05	<0.1	0.4	<0.1	7	<10
347400	5386425	G392	98												
347725	5386365	G393		<1		6.5	5.5	15.5	0.5	<0.05	0.2	1.1	<0.1	13	<10
347725	5386365	G394	51												
347615	5386325	G395		9		5	2	4.5	0.5	<0.05	0.2	1	<0.1	40	<10
347615	5386325	G396	2.25												
347575	5386400	G397		3		2	1	1	<0.5	<0.05	0.1	0.4	<0.1	<4	<10
347575	5386400	G398	57												
347650	5386525	G399		I.S.	I.S.	7	5.5	23	0.5	<0.05	0.3	1.2	<0.1	I.S.	I.S.
347650	5386525	G400	19												

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
348125	5386400	G401		<1		2	1	1	1	<0.05	0.1	0.5	<0.1	<4	<10
348125	5386400	G402	0.65												
348225	5385810	G403		<1		1.5	1	1.5	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
348225	5385810	G404	0.05												
348125	5385750	G405		<1		1.5	0.5	<0.5	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
348125	5385750	G406	1.25												
348240	5385850	G407		2		9.5	5	2.5	<0.5	<0.05	0.1	0.4	<0.1	7	<10
348240	5385850	G408	494												
348100	5385925	G409		7		3.5	2.5	2	<0.5	<0.05	0.1	0.5	<0.1	4	<10
348100	5385925	G410	501												
347975	5385950	G411		<1		4	1.5	2	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
347975	5385950	G412	5.5												
348350	5386075	G413		2		1.5	1	2.5	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
348350	5386075	G414	7.5												
348290	5386075	G415		<1		1	0.5	<0.5	<0.5	<0.05	<0.1	0.2	<0.1	11	<10
348290	5386075	G416	14												
348125	5386225	G417		<1		3	2	1.5	0.5	<0.05	0.1	0.6	<0.1	15	<10
348125	5386225	G418	999												
347085	5386000	G419		<1		2	0.5	0.5	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
347085	5386000	G420	6.5												
347060	5386075	G421		<1		1	<0.5	<0.5	<0.5	<0.05	<0.1	0.1	<0.1	4	<10
347060	5386075	G422	0.15												
347250	5385950	G423		2		3	2	1.5	<0.5	<0.05	<0.1	0.4	<0.1	<4	<10
347250	5385950	G424	5.5												
347075	5385700	G425		<1		2	1	1.5	<0.5	<0.05	<0.1	0.4	<0.1	<4	<10
347075	5385700	G426	53												
347225	5385590	G427		<1		4	1	1	<0.5	<0.05	0.1	1	<0.1	<4	<10
347225	5385590	G428	0.05												
347325	5384400	G429		<1		4.5	1.5	1.5	<0.5	<0.05	0.2	0.9	<0.1	<4	<10
347325	5384400	G430	1800												
347450	5384540	G431		4		3.5	1.5	2	<0.5	<0.05	0.1	1	<0.1	<4	<10
347450	5384540	G432	3400												
347675	5384700	G433		4		1.5	1	1	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
347675	5384700	G434	26												
347250	5385715	G435		<1		4	2	2.5	<0.5	<0.05	0.2	0.6	<0.1	<4	<10
347250	5385715	G436	142												
347250	5385750	G437		<1		6	2.5	3	<0.5	<0.05	0.1	0.3	<0.1	<4	<10
347250	5385750	G438	150												
347400	5385775	G439		<1	<1	4	2.5	3	0.5	0.1	<0.1	0.4	0.5	<4	45
347400	5385775	G440	13												
347400	5384750	G441		1		2	1	2	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
347400	5384750	G442	<0.05												
347200	5384460	G443		6		4.5	3	5.5	1	<0.05	0.1	0.5	<0.1	<4	<10
347200	5384460	G444	2.1												
347135	5384605	G445		2		5	2	5.5	0.5	<0.05	0.1	0.4	<0.1	6	<10
347135	5384605	G446	412												
347140	5384810	G447		<1		8	5.5	8	2	<0.05	0.1	0.5	<0.1	<4	<10
347140	5384810	G448	44												
347200	5384575	G449		1		3	1	2	<0.5	<0.05	<0.1	0.3	<0.1	4	<10
347200	5384575	G450	74												
347250	5384725	G451		<1		12.5	2.5	9	0.5	<0.05	0.1	0.6	<0.1	4	<10
347250	5384725	G452	58												
347175	5385125	G453		<1		7	2	6	0.5	<0.05	0.2	1.3	<0.1	<4	<10
347175	5385125	G454	0.4												
347200	5385105	G455		<1		12	2	6	0.5	<0.05	0.2	1.3	<0.1	5	<10
347200	5385105	G456	188												
346300	5385600	G457		<1		3	1.5	2	<0.5	<0.05	<0.1	0.3	<0.1	8	<10
346300	5385600	G458	25												
346525	5385650	G459		<1		4.5	1	2.5	<0.5	<0.05	<0.1	0.5	<0.1	<4	<10
346525	5385650	G460	0.65												
346525	5385600	G461		72		3.5	1	2	<0.5	<0.05	<0.1	0.4	<0.1	7	<10
346525	5385600	G462	N.A.												
346600	5385525	G463		1		4	1	2.5	<0.5	<0.05	<0.1	0.4	<0.1	10	<10
346600	5385525	G464	58												
346375	5385350	G465		10		8	4	6	0.5	<0.05	0.2	1.3	<0.1	<4	<10

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
346375	5385350	G466	179												
346600	5385250	G467		<1		3.5	1	2	<0.5	<0.05	<0.1	0.6	<0.1	4	<10
346600	5385250	G468	0.1												
346365	5385325	G469		3		6.5	3	5.5	<0.5	<0.05	<0.1	0.5	<0.1	<4	<10
346365	5385325	G470	133												
346350	5385050	G471		1		3.5	1	2.5	<0.5	<0.05	<0.1	0.4	<0.1	<4	<10
346350	5385050	G472	6.8												
348000	5384775	G473		<1	<1	2.5	1.5	2	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
348000	5384775	G474	39												
348025	5384575	G475		1		4	1.5	3.5	<0.5	<0.05	<0.1	0.2	<0.1	4	<10
348025	5384575	G476	19												
348000	5385025	G477		<1		3.5	1.5	3	<0.5	<0.05	<0.1	0.4	<0.1	<4	<10
348000	5385025	G478	0.6												
347920	5385115	G479		2		2	1	1.5	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
347920	5385115	G480	2.2												
347900	5385200	G481				11	1.5	6	0.5	<0.05	0.3	2.7	<0.1	L.N.R.	L.N.R.
347900	5385200	G482	0.2												
347940	5385225	G483		<1		3	0.5	2	<0.5	<0.05	<0.1	0.4	<0.1	5	<10
347940	5385225	G484	<0.05												
347575	5385425	G485		<1		5.5	0.5	3	0.5	<0.05	0.1	0.6	<0.1	<4	<10
347575	5385425	G486	<0.05												
347600	5385410	G487		<1		16	1.5	9.5	0.5	<0.05	0.2	1.6	<0.1	<4	<10
347600	5385410	G488	<0.05												
347460	5385250	G489		27		15.5	2	10	0.5	<0.05	0.2	0.9	<0.1	6	<10
347460	5385250	G490	167												
347020	5384885	G491		8		7.5	1	4.5	<0.5	<0.05	0.2	0.7	<0.1	5	<10
347020	5384885	G492	0.4												
346850	5384750	G493		<1		12	4	8.5	1	<0.05	0.2	0.5	<0.1	<4	<10
346850	5384750	G494	85												
346575	5384425	G495		<1		3.5	1.5	2.5	1	0.05	0.2	1	0.2	5	<10
346575	5384425	G496	474												
346500	5384335	G497		<1		7	2.5	6.5	1	<0.05	0.2	1	<0.1	<4	<10
346500	5384335	G498	60												
346650	5384100	G499		1		13.5	1.5	2.5	2	<0.05	0.2	0.6	0.2	<4	<10
346650	5384100	G500	3.9												
346650	5383925	G501		3		12	2.5	5	1	<0.05	0.2	0.4	<0.1	5	<10
346650	5383925	G502	71												
346615	5383750	G503		<1		10	3	4	1	<0.05	0.2	0.5	<0.1	<4	<10
346615	5383750	G504	2.7												
346615	5383600	G505		2		9	5.5	4	1	<0.05	0.3	0.6	<0.1	<4	<10
346615	5383600	G506	0.1												
346600	5383425	G507		<1		10.5	24.5	6	2	0.05	0.7	0.6	0.1	<4	<10
346600	5383425	G508	1.6												
346400	5382900	G509		<1		6	3	5	0.5	<0.05	0.2	0.7	<0.1	<4	<10
346400	5382900	G510	<0.05												
346475	5382845	G511		1		8	2.5	7	0.5	<0.05	0.2	0.5	<0.1	<4	<10
346475	5382845	G512	3.1												
347250	5384225	G513		29		10	2.5	5.5	0.5	<0.05	0.5	0.6	<0.1	<4	<10
347250	5384225	G514	16												
347240	5384040	G515		4		7.5	1.5	4.5	0.5	<0.05	0.4	0.4	<0.1	<4	<10
347240	5384040	G516	21												
347525	5383565	G517		4		5	1.5	3.5	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
347525	5383565	G518	70												
347485	5383450	G519		<1		3	1.5	3	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
347485	5383450	G520	86												
347460	5383475	G521		<1		6	2.5	4	0.5	<0.05	0.1	0.5	<0.1	<4	<10
347460	5383475	G522	0.1												
347600	5384050	G523		<1		4	1	3.5	<0.5	<0.05	<0.1	0.6	<0.1	<4	<10
347600	5384050	G524	0.2												
347625	5384225	G525		3		2.5	1	2	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
347625	5384225	G526	1.3												
346525	5382150	G527		<1		3.5	2.5	3.5	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
346525	5382150	G528	0.75												
346225	5382200	G529		<1		10	4.5	17.5	1	<0.05	0.2	0.6	0.1	<4	<10
346225	5382200	G530	<0.05												

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
346125	5382375	G531		<1		8.5	5	10	1.5	<0.05	0.3	0.9	<0.1	<4	<10
346125	5382375	G532	<0.05												
346915	5382200	G533		<1		7.5	2	7.5	0.5	<0.05	<0.1	0.3	<0.1	<4	<10
346915	5382200	G534	0.05												
346825	5382420	G535		3	3	16.5	2.5	7.5	0.5	<0.05	<0.1	0.4	0.1	<4	<10
346825	5382420	G536	0.15												
346925	5386850	G601		<1		3.5	2	1.5	<0.5	<0.05	<0.1	0.5	<0.1	<4	<10
346925	5386850	G602	7.5												
346950	5386875	G603		<1		5	2	3.5	<0.5	<0.05	0.1	0.3	<0.1	10	<10
346950	5386875	G604	922												
346875	5386600	G605		<1		2.5	3.5	3.5	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
346875	5386600	G606	398												
347020	5386450	G607		6		3.5	1.5	6.5	<0.5	<0.05	<0.1	0.5	<0.1	<4	<10
347020	5386450	G608	68												
347035	5386050	G609		<1		2	1	0.5	<0.5	<0.05	<0.1	0.6	<0.1	<4	<10
347035	5386050	G610	1.15												
347125	5386200	G611		<1		1.5	1.5	1	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
347125	5386200	G612	0.55												
347050	5386015	G613		<1		2	1.5	1	<0.5	<0.05	<0.1	0.4	<0.1	<4	<10
347050	5386015	G614	0.05												
347080	5385750	G615		3		2	2	12.5	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
347080	5385750	G616	100												
347710	5384850	G617		<1		1	1	1	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
347710	5384850	G618	287												
347550	5384640	G619		1		2	1	1	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
347550	5384640	G620	887												
347580	5384600	G621		2		1.5	1	1	<0.5	<0.05	<0.1	0.3	<0.1	<4	<10
347580	5384600	G622	298												
347565	5384810	G623		4		2.5	3	3	<0.5	<0.05	<0.1	0.4	<0.1	<4	<10
347565	5384810	G624	2300												
347425	5384570	G625		<1		1.5	1.5	1	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
347425	5384570	G626	9												
347280	5384410	G627		380		8	3	6	<0.5	<0.05	0.4	0.3	<0.1	<4	<10
347280	5384410	G628	741												
347130	5384380	G629		5		7.5	3.5	8.5	2	<0.05	0.2	0.8	<0.1	<4	<10
347130	5384380	G630	44												
347090	5384170	G631		<1		6.5	2	5	0.5	<0.05	0.1	0.5	<0.1	<4	<10
347090	5384170	G632	19												
347070	5383945	G633		1		6	2.5	5.5	0.5	<0.05	0.2	0.3	<0.1	6	<10
347070	5383945	G634	7.75												
347040	5384625	G635		5		79	3.5	9	3.5	<0.05	0.9	1.5	<0.1	<4	<10
347040	5384625	G636	4.2												
347970	5384765	G637		2		5.5	1.5	4.5	<0.5	<0.05	0.1	0.4	<0.1	<4	<10
347970	5384765	G638	6.1												
348050	5384990	G639		4		8.5	1.5	4.5	<0.5	<0.05	<0.1	0.4	<0.1	<4	<10
348050	5384990	G640	0.05												
348075	5385000	G641		<1		4	1	2.5	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
348075	5385000	G642	0.05												
348100	5384775	G643		<1		2.5	1	1.5	<0.5	<0.05	<0.1	0.2	<0.1	<4	<10
348100	5384775	G644	<0.05												
346825	5384575	G645		<1		6	1.5	2.5	<0.5	<0.05	<0.1	0.7	<0.1	<4	<10
346825	5384575	G646	12												
346675	5384500	G647		<1		3	1	2	<0.5	<0.05	0.1	0.3	<0.1	5	<10
346675	5384500	G648	421												
346670	5384545	G649		6		4	0.5	2	<0.5	<0.05	<0.1	0.5	<0.1	4	<10
346670	5384545	G650	20												
346465	5384335	G651		2		4.5	1	2.5	<0.5	<0.05	<0.1	0.7	<0.1	6	<10
346465	5384335	G652	61												
346300	5384250	G653		14		3	1	2	<0.5	<0.05	<0.1	0.5	<0.1	<4	<10
346300	5384250	G654	250												
346200	5384425	G655		11		9	4	13	1	<0.05	0.3	2	<0.1	<4	<10
346200	5384425	G656	786												
346200	5384475	G657		<1		8	4.5	9	<0.5	<0.05	0.1	0.8	<0.1	<4	<10
346200	5384475	G658	240												
346290	5384540	G659		1		5	4	3.5	<0.5	<0.05	<0.1	0.6	<0.1	<4	<10

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
346290	5384540	G660	51												
346275	5384560	G661		2		4	1.5	3.5	<0.5	<0.05	<0.1	0.5	<0.1	<4	<10
346275	5384560	G662	14												
346100	5384550	G663		<1		4.5	1.5	4	<0.5	<0.05	<0.1	0.6	<0.1	<4	<10
346100	5384550	G664	958												
346100	5384605	G665		2		16.5	5	26	<0.5	<0.05	0.5	1	<0.1	<4	<10
346100	5384605	G666	0.3												
346175	5383375	G667		3		9.5	2.5	11	<0.5	<0.05	<0.1	0.6	<0.1	<4	<10
346175	5383375	G668	2.7												
346130	5383600	G669		3		16	4	19	<0.5	<0.05	0.1	0.7	<0.1	<4	<10
346130	5383600	G670	4.3												
346200	5383775	G671		2		11	4.5	16.5	<0.5	<0.05	<0.1	0.6	<0.1	<4	<10
346200	5383775	G672	0.2												
346225	5383950	G673		<1		9	2	5.5	<0.5	<0.05	<0.1	0.6	<0.1	<4	<10
346225	5383950	G674	0.15												
346785	5382915	G675		<1		7	3.5	6.5	2	<0.05	0.4	0.6	<0.1	<4	<10
346785	5382915	G676	1.4												
346800	5382920	G677		<1		7.5	5.5	11.5	2	0.1	0.2	0.9	0.5	<4	<10
346800	5382920	G678	0.05												
346950	5383075	G679		<1		5	4	4	1	<0.05	0.1	0.3	0.1	4	<10
346950	5383075	G680	<0.05												
346975	5382875	G681		<1		4	2.5	3.5	0.5	<0.05	0.2	0.5	<0.1	7	<10
346975	5382875	G682	3												
347035	5383050	G683		27		12.5	8.5	12	3	0.1	0.4	0.5	0.2	<4	<10
347035	5383050	G684	<0.05												
347050	5383075	G685		2		8	2.5	4	<0.5	0.05	0.1	0.4	<0.1	<4	<10
347050	5383075	G686	0.05												
347225	5383200	G687		210		8	2.5	4.5	<0.5	<0.05	0.1	0.7	<0.1	<4	<10
347225	5383200	G688	404												
347125	5382350	G689		3		6	1.5	8	<0.5	<0.05	0.1	0.4	<0.1	7	<10
347125	5382350	G690	0.95												
347250	5382500	G691		2		6.5	2	4	<0.5	<0.05	<0.1	0.3	<0.1	4	<10
347250	5382500	G692	71												
347340	5382650	G693		1		3.5	2	2.5	<0.5	<0.05	<0.1	0.2	<0.1	6	<10
347340	5382650	G694	124												
347350	5382800	G695		<1		4	1	1.5	<0.5	<0.05	<0.1	0.1	<0.1	4	<10
347350	5382800	G696	301												
347600	5382460	G825		<1		11.5	2.5	14	<0.5	<0.05	<0.1	0.8	<0.1	5	<10
347600	5382460	G826	7.10												
347550	5382460	G827		<1		27.5	3.5	13.5	1.5	<0.05	<0.1	1.1	0.1	<4	<10
347550	5382460	G828	438												
347575	5382550	G829		<1		11	3	14.5	0.5	<0.05	0.1	0.5	<0.1	<4	<10
347575	5382550	G830	183												
347575	5382675	G831		<1		7	2	9	<0.5	<0.05	0.1	0.6	<0.1	<4	<10
347575	5382675	G832	6.00												
347625	5382700	G833		<1		7.5	2	7.5	<0.5	<0.05	0.1	0.6	<0.1	<4	<10
347625	5382700	G834	1200												
347725	5382800	G835		<1		10.5	6.5	15.5	1.5	0.05	0.2	0.8	<0.1	<4	<10
347725	5382800	G836	2.00												
347700	5382825	G837		<1		6.5	2	6	<0.5	<0.05	0.1	0.6	<0.1	<4	<10
347700	5382825	G838	5.10												
G1854-1898 No corresponding -80#. Close-spaced (50m) samples around 347500mE5385000mN.															
See figure in report for locations.															
		G1854	501												
		G1856	971												
		G1858	1.25												
		G1860	28												
		G1862	29												
		G1864	209												
		G1866	353												
		G1868	126												
		G1870	9.2												
		G1872	25												
		G1874	1300												
		G1876	1400												

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
		G1878	652												
		G1880	592												
		G1882	11												
		G1884	1.35												
		G1886	2.15												
		G1888	34												
		G1890	24												
		G1892	0.1												
		G1894	0.45												
		G1896	0.05												
		G1898	1.85												
347880	5387580	G2015		52	52	14.5	20	7.5	0.5	0.15	0.3	0.6	0.6	54	<10
347880	5387580	G2016	24												
347875	5387600	G2017		2		3.5	2.5	9.5	<0.5	<0.05	0.2	0.4	<0.1	210	<10
347875	5387600	G2018	1.10												
347830	5387490	G2019		6		2.0	2.5	1.5	<0.5	<0.05	0.2	0.4	<0.1	36	<10
347830	5387490	G2020	1.20												
347540	5387655	G2021		1		2.5	1.5	2.0	<0.5	<0.05	0.2	0.6	<0.1	28	<10
347540	5387655	G2022	60												
347575	5387670	G2023		3		2.5	3	2.0	<0.5	<0.05	0.3	0.7	<0.1	190	<10
347575	5387670	G2024	14												
347580	5387705	G2025		<1		1.0	1.0	1.5	<0.5	<0.05	0.2	0.4	<0.1	28	<10
347580	5387705	G2026	16												
347415	5387850	G2027		2		4.5	2.5	3.0	<0.5	<0.05	0.3	1.0	<0.1	88	<10
347415	5387850	G2028	651												
347170	5388085	G2029		<1		1.0	0.5	2.0	<0.5	<0.05	0.2	0.4	<0.1	<4	<10
347170	5388085	G2030	33												
347200	5388085	G2031		2		2.5	1.5	2.5	<0.5	<0.05	0.2	0.5	<0.1	19	<10
347200	5388085	G2032	925												
347220	5388105	G2033		<1		1.5	1.0	2.0	<0.5	<0.05	0.2	0.5	<0.1	24	<10
347220	5388105	G2034	4300												
346890	5388010	G2035		<1		6.0	4.0	8.5	0.5	<0.05	0.3	1.4	<0.1	600	<10
346890	5388010	G2036	66												
346875	5387975	G2037		<1		5.5	2.0	9.5	<0.5	<0.05	0.3	0.6	<0.1	<4	<10
346875	5387975	G2038	44												
347640	5387550	G2039		1		2.0	1.0	2.5	<0.5	<0.05	0.3	0.6	<0.1	<4	<10
347640	5387550	G2040	240												
347520	5387790	G2041		<1		6.0	1.5	4.0	1.0	<0.05	0.3	0.8	<0.1	61	<10
347520	5387790	G2042	24												
347310	5388130	G2045		<1		3.5	2.5	9.5	0.5	<0.05	0.3	1.0	<0.1	145	<10
347310	5388130	G2046	61												
347630	5388160	G2047		1		1.5	1.0	2.0	0.5	<0.05	0.3	0.7	<0.1	8	<10
347630	5388160	G2048	133												
347690	5388245	G2049		2		2.0	1.0	1.5	<0.5	<0.05	0.2	0.7	<0.1	<4	<10
347690	5388245	G2050	1.30												
347670	5388270	G2051		<1		2.0	1.0	2.0	<0.5	<0.05	0.2	0.8	<0.1	19	<10
347670	5388270	G2052	0.90												
347475	5388100	G2053		3		1.5	2.0	2.0	<0.5	<0.05	0.2	0.5	<0.1	38	<10
347475	5388100	G2054	1900												
347300	5388160	G2055		<1		1.5	1.0	2.0	<0.5	<0.05	0.2	0.6	<0.1	61	<10
347300	5388160	G2056	56												
347350	5388300	G2057		8	8	1.0	1.0	1.5	<0.5	<0.05	0.3	0.5	<0.1	76	<10
347350	5388300	G2058	1300												
346750	5387930	G2059		<1		4.0	2.5	8.0	0.5	<0.05	0.2	0.8	<0.1	94	<10
346750	5387930	G2060	5400												
346710	5387890	G2061		<1		4.0	3.0	7.0	<0.5	<0.05	0.3	0.7	<0.1	<4	<10
346710	5387890	G2062	22												
346970	5387795	G2063		3		2.0	1.0	2.5	<0.5	<0.05	0.4	0.4	<0.1	<4	<10
346970	5387795	G2064	1000												
346940	5387760	G2065		<1		1.0	1.0	2.5	<0.5	<0.05	0.3	0.4	<0.1	<4	<10
346940	5387760	G2066	1200												
346825	5387610	G2067		<1	<1	2.0	0.5	2.0	<0.5	<0.05	0.1	0.5	<0.1	11	<10
346825	5387610	G2068	16												
346915	5387465	G2069		<1		3.5	2.5	3.5	0.5	0.05	0.3	1.3	<0.1	30	<10
346915	5387465	G2070	3.80												

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
346975	5387240	G2071		<1		2.0	1.0	2.0	<0.5	<0.05	0.2	0.6	<0.1	38	<10
346975	5387240	G2072	629												
346980	5387060	G2073		<1		7.0	2.5	13.0	1.0	0.10	0.3	1.4	<0.1	48	<10
346980	5387060	G2074	270												
347130	5387260	G2075		<1		2.0	1.0	2.5	<0.5	<0.05	0.2	0.5	<0.1	10	<10
347130	5387260	G2076	10												
347145	5387525	G2077		<1		1.0	0.5	1.5	<0.5	<0.05	0.2	0.4	<0.1	<4	<10
347145	5387525	G2078	19												
347150	5387920	G2079		<1		2.0	2.5	2.5	0.5	0.10	0.4	0.6	0.4	<4	<10
347150	5387920	G2080	14												
347155	5387700	G2081		<1		1.0	1.0	1.5	<0.5	<0.05	0.2	0.4	0.1	<4	<10
347155	5387700	G2082	2.00												
347260	5387180	G2083		22	7	1.5	0.5	1.5	<0.5	<0.05	0.2	0.5	<0.1	<4	<10
347260	5387180	G2084	5900												
347490	5387500	G2087		<1		3.0	1.5	3.5	0.5	0.05	0.3	1.5	<0.1	73	<10
347490	5387500	G2088	34												
347445	5387210	G2089		<1		1.0	1.0	2.0	<0.5	<0.05	0.1	0.3	<0.1	<4	<10
347445	5387210	G2090	127												
Not Collected		G2091													
347430	5387025	G2092	209												
Not Collected		G2093													
347260	5387045	G2094	L.N.R.												
Not Collected		G2095													
347125	5386775	G2096	2.70												
Not Collected		G2097													
346970	5387030	G2098	37												
G2281-2285 all -80#															
346575	5387375	G2281		<1		2.5	3.0	3.0	0.5	0.05	0.4	0.6	0.6	<4	<10
346600	5387370	G2282		<1		1.5	1.5	2.0	<0.5	<0.05	0.5	0.5	<0.1	<4	<10
346520	5387455	G2283		<1		2.5	2.0	4.0	0.5	<0.05	0.7	0.5	<0.1	<4	<10
346550	5387435	G2284		<1		2.0	1.5	1.5	0.5	<0.05	1.3	0.5	0.2	8	<10
346580	5387565	G2285		<1	1	2.0	1.5	2.5	1.0	<0.05	2.6	0.6	<0.1	<4	<10
1995-1996 Reconnaissance Samples; Analysts: pan. con. Amdel, -80# Analabs. Not all pan. con. assayed.															
346025	5385375	G165		2		8	7	59	4.3	0.12					
346025	5385375	G166	4500												
346275	5385435	G167		1		10	5	12	1.9	<0.05					
346275	5385435	G168	175												
347045	5385750	G171		4		5	<3	4	0.9	<0.05					
347045	5385750	G172													
346925	5385850	G173		<1		3	<3	4	5.1	<0.05					
346925	5385850	G174													
346950	5385900	G175		6		4	<3	6	2.4	<0.05					
346950	5385900	G176													
347125	5386775	G177		2		3	<3	4	0.7	<0.05					
347125	5386775	G178	5100												
347125	5386700	G179		8		5	<3	8	1.5	<0.05					
347125	5386700	G180	364												
346935	5386650	G181		4		5	<3	7	0.6	<0.05					
346935	5386650	G182	396												
346450	5386025	G183		2		16	5	33	2.6	<0.05					
346450	5386025	G184	15												
346350	5385795	G185		6		8	<3	13	1.0	<0.05					
346350	5385795	G186	14												
346310	5385810	G187		3		25	17	43	3.0	<0.05					
346310	5385810	G188	2200												
346725	5386075	G189		2		4	<3	6	0.7	<0.05					
346725	5386075	G190	29												
346750	5386025	G191		4		6	4	10	1.2	<0.05					
346750	5386025	G192	404												
346075	5383375	G201		8		19	<3	31	1.5	<0.05					
346075	5383375	G202	103												
346400	5382970	G203		6		8	<3	17	2.8	<0.05					
346400	5382970	G204	1.9												
347250	5383830	G205		4		20	4	32	1.6	<0.05					
347250	5383830	G206													

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
349270	5387540	G1488	68												
349270	5387500	G1489		3		35.0	7.5	69	0.5	<0.05	0.2	0.3	<0.1	5	<10
349270	5387500	G1490	60												
349225	5387575	G1491		2		25.0	8.0	71	0.5	<0.05	0.2	0.4	<0.1	9	<10
349225	5387575	G1492	101												
349340	5388150	G1493		5		26.0	7.5	89	1.0	<0.05	0.1	0.4	<0.1	<4	10
349340	5388150	G1494	0.25												
349970	5388010	G1495		2		29.5	16.0	86	7.5	<0.05	0.8	0.9	0.3	7	<10
349970	5388010	G1496	0.35												
349905	5388265	G1603		3		25.5	18.5	62	7.5	0.20	0.6	0.6	0.2	<4	<10
349905	5388265	G1604	0.15												
349850	5388240	G1605		<1		11.5	7.5	25.0	4.5	0.10	0.3	0.4	0.1	24	<10
349850	5388240	G1606	2.65												
349815	5388250	G1607		<1		16.5	10.0	28.0	8.0	0.10	0.3	0.4	0.1	<4	<10
349815	5388250	G1608	0.1												
349830	5388450	G1609		<1		9.0	9.5	21.0	2.0	0.05	0.2	0.3	<0.1	<4	<10
349830	5388450	G1610	0.55												
349810	5388710	G1611		<1		10.0	7.0	23.5	2.5	0.05	0.2	0.3	<0.1	<4	<10
349810	5388710	G1612	0.1												
349285	5389675	G1843		7	7	36.0	8.0	93	1.0	<0.05	<0.1	0.6	0.1	7	<10
349285	5389675	G1844	5.5												
349250	5389525	G1845		2		20.5	4.0	92	1.5	<0.05	0.1	0.3	0.2	<4	<10
349250	5389525	G1846	3.95												
349525	5389375	G1847		1		42.0	13.5	83	3.5	<0.05	0.1	0.5	0.2	<4	<10
Number not used		G1848													
349625	5389700	G1849		6		29.0	8.0	37.5	1.0	<0.05	0.1	0.3	0.1	<4	<10
349625	5389700	G1850	7900												
349275	5390025	G1851		6	5	33.0	4.0	98	<0.5	<0.05	<0.1	0.4	0.1	<4	<10
349275	5390025	G1852	0.25												
349120	5389175	G1909		<1		21.0	10.0	16.5	8.5	<0.05	0.6	0.8	0.6	4	<10
349120	5389175	G1910	1.55												
349300	5388475	G1911		<1		28.5	8.0	62	2.0	<0.05	0.2	0.9	0.2	5	<10
349300	5388475	G1912	2.20												
349250	5388520	G1913		<1		9.5	2.5	7.0	<0.5	<0.05	<0.1	0.6	<0.1	<4	<10
349250	5388520	G1914	0.05												
349375	5388675	G1915		<1		19.5	2.5	40.0	<0.5	<0.05	0.2	0.6	<0.1	4	<10
349375	5388675	G1916	<0.05												
349965	5388750	G1917		<1		8.0	5.5	15.5	1.0	<0.05	0.2	0.5	<0.1	<4	15
349965	5388750	G1918	<0.05												
1995-1996 Reconnaissance Samples. Not all pan. con. assayed. Analysts: pan. Con. Amdel, -80# Analabs.															
349425	5388650	G245		2		59	6	66	4.6	0.05					
349425	5388650	G246	4												
349550	5388890	G247		10		71	12	71	12.0	0.05					
349550	5388890	G248	0.9												
349425	5389325	G249		8		73	22	179	9.6	0.10					
349425	5389325	G250	431												
349125	5389350	G251		<1		38	16	51	15.0	<0.05					
349125	5389350	G252	1.15												
348875	5387315	G253		2		78	9	84	8.5	<0.05					
348875	5387315	G254	1.95												
348850	5387300	G255		<1		19	4	39	6.5	<0.05					
348850	5387300	G256	0.1												
348850	5387850	G257		<1		7	<3	10	0.9	>0.05					
348850	5387850	G258	2.15												
349225	5387810	G259		<1		32	12	88	2.9	<0.05					
349225	5387810	G260	0.35												
349200	5387800	G261		<1		26	8	73	5.8	<0.05					
349200	5387800	G262	2.05												
349025	5388500	G263		2		14	<3	13	6.2	<0.05					
349025	5388500	G264	590												
349060	5388450	G265		<1		20	<3	20	3.4	<0.05					
349060	5388450	G266	1.15												
348925	5389725	G267		2		16	4	27	5.5	<0.05					
348925	5389725	G268	58												

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
349630	5389500	G1059		2		44.5	7.5	94	1.0	<0.05	0.1	0.2	<0.1	<4	<10
349630	5389500	G1060	6300												
349650	5389470	G1061		<1		16.0	6.5	63	2.0	<0.05	0.1	0.1	<0.1	<4	<10
349650	5389470	G1062	0.9												
349825	5389675	G1063		<1		10.0	3.5	31.0	0.5	<0.05	<0.1	<0.1	<0.1	<4	<10
349825	5389675	G1064	1800												
349980	5389795	G1065		<1	<1	8.5	7.5	6.5	3.5	0.05	0.2	0.4	0.1	<4	<10
349980	5389795	G1066	112												
349500	5389360	G1067		3		45	1100	320	3.0	4.9	3.4	0.4	<0.1	<4	<10
349500	5389360	G1068	97												
349900	5389025	G1081		1		7.0	33.0	27.0	4.0	0.15	0.2	0.4	<0.1	<4	<10
349900	5389025	G1082	8.85												
349890	5389065	G1083		1		7.0	15.0	19.0	1.5	<0.05	<0.1	0.2	<0.1	<4	<10
349890	5389065	G1084	0.05												
349650	5388950	G1085		<1		20.0	26.5	35.0	2.5	0.05	0.1	0.2	<0.1	5	<10
349650	5388950	G1086	0.75												
349630	5388960	G1087		3		19.0	23.5	33.0	2.5	0.05	0.1	0.2	<0.1	<4	10
349630	5388960	G1088	13												
349900	5389175	G1109		<1		11.5	11.5	17.0	2.0	<0.05	0.1	0.2	<0.1	<4	<10
349900	5389175	G1110	<0.05												
349975	5389440	G1113		<1		1.5	8	6	<0.5	<0.05	<0.1	0.1	<0.1	<4	<10
349975	5389440	G1114	845												
349750	5389075	G1115		3		12.5	21	36	1	0.05	0.1	0.2	<0.1	<4	<10
349750	5389075	G1116	0.15												
349775	5389275	G1117		2	L.N.R.	6.5	17	21	<0.5	<0.05	0.1	0.2	<0.1	<4	<10
349775	5389275	G1118	96												
349790	5386300	G1157		<1		5.5	5.0	4.5	2.0	<0.05	0.3	0.8	<0.1	7	<10
349790	5386300	G1158	0.3												
349700	5386125	G1159		<1		4.0	5.5	9.0	2.0	<0.05	0.2	0.3	0.1	7	<10
349700	5386125	G1160	0.35												
349625	5385975	G1161		<1		11.5	11.5	39.5	3.0	0.05	0.3	0.9	0.1	4	<10
349625	5385975	G1162	<0.05												
349545	5385930	G1163		9		26.0	9.5	31.5	5.0	0.05	0.5	0.8	0.1	9	<10
349545	5385930	G1164	0.05												
349585	5386085	G1165		3		25.0	7.0	23.5	3.5	<0.05	0.4	0.7	<0.1	7	<10
349585	5386085	G1166	<0.05												
349620	5386270	G1167		6		6.0	5.5	16.5	2.5	<0.05	0.3	0.6	<0.1	15	<10
349620	5386270	G1168	<0.05												
349435	5386550	G1169		<1		19.5	11.0	41.5	2.5	<0.05	0.2	0.6	0.1	<4	<10
349435	5386550	G1170	9												
349500	5386685	G1171		<1		5.5	9.0	13.0	3.5	<0.05	0.6	0.4	0.1	6	<10
349500	5386685	G1172	32												
349535	5386925	G1173		3		8	3.0	7.5	0.5	<0.05	0.1	0.5	<0.1	<4	<10
349535	5386925	G1174	19												
349450	5386480	G1175		1		8.5	4.5	19.5	3.0	<0.05	0.3	0.3	<0.1	9	<10
349450	5386480	G1176	11												
349675	5386700	G1177		<1		5.0	4.0	8.0	1.5	<0.05	0.2	0.2	<0.1	37	<10
349675	5386700	G1178	29												
349650	5386740	G1179		<1		5.0	5.5	7.0	5.0	<0.05	0.4	0.4	<0.1	<4	<10
349650	5386740	G1180	<0.05												
349675	5386960	G1181		2		4.0	4.0	3.0	1.0	<0.05	0.2	0.4	<0.1	10	<10
349675	5386960	G1182	0.2												
349700	5386940	G1183		2		5.0	6.0	5.0	8.5	<0.05	0.3	0.3	0.1	9	<10
349700	5386940	G1184	0.55												
349720	5387220	G1421		2		7.0	6.5	7.0	<0.5	0.10	0.2	0.4	<0.1	18	<10
349720	5387220	G1422	0.15												
349750	5387390	G1423		1		11.5	10.0	26.0	4.0	0.05	0.6	0.4	<0.1	6	<10
349750	5387390	G1424	485												
349740	5387410	G1425		5		28.0	11.5	30.0	3.0	0.10	0.2	0.6	<0.1	38	15
349740	5387410	G1426	35												
349850	5387575	G1427		5		11.0	8.0	15.0	3.0	0.05	0.3	0.7	<0.1	115	<10
349850	5387575	G1428	12												
349840	5387600	G1429		6		10.5	12.0	20.0	3.5	0.05	0.3	0.5	<0.1	310	<10
349840	5387600	G1430	4200												
349270	5387540	G1487		2		19.5	6.0	62	0.5	<0.05	<0.1	0.3	<0.1	<4	<10

Easting	Northing	Sample	Au*	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
347200	5383810	G207		2		13	5	32	3.0	<0.05					
347200	5383810	G208	13												
346975	5383775	G209		11		23	<3	17	1.7	<0.05					
346975	5383775	G210	592												
347100	5382025	G219		2		21	<3	47	1.5	<0.05					
347100	5382025	G220	275												
347030	5382130	G221		15	0.012	10	<3	18	1.1	<0.05					
347030	5382130	G222	443												
346300	5382200	G223		<1		7	<3	13	1.0	<0.05					
346300	5382200	G224	6.5												
346300	5381980	G225		1		18	6	35	3.5	<0.05					
346300	5381980	G226	359												
346910	5383225	G235		1		8	<3	11	1.1	<0.05					
346910	5383225	G236	7.3												
346575	5383225	G237		1		21	23	29	18.0	<0.05					
346575	5383225	G238	22												
347575	5388130	G293		<1		5	<3	5	3.8	<0.05					
347575	5388130	G294													
348510	5383925	G295		4		19	5	48	5.0	<0.05					
348510	5383925	G296	4.00												
348530	5383950	G297		240		14	8	32	7.4	<0.05					
348530	5383950	G298	0.50												
348075	5382050	G299		9		55	17	132	18.0						
348075	5382050	G300	8.9												
348100	5381975	G301		8		15	4	28	6.0						
348100	5381975	G302													
348165	5383000	G303		6		43	<3	49	6.2						
348165	5383000	G304													
348175	5382915	G305		8		26	5	35	8.4						
348175	5382915	G306													
348075	5382930	G307		7		32	<3	13	4.6						
348075	5382930	G308													
347530	5382385	G311		7		16	<3	34	1.9						
347530	5382385	G312													
347610	5382200	G313		17		28	5	45	7.0						
347610	5382200	G314													
347850	5382200	G315		7		21	4	40	6.2						
347850	5382200	G316													
347800	5382200	G317		6		20	3	18	7.1						
347800	5382200	G318													
347560	5383950	G321		8		15	<3	9	2.2						
347560	5383950	G322	I.S.												
347575	5383875	G323		3		8	3	25	2.2						
347575	5383875	G324	I.S.												<10
347485	5383725	G325		6		7	<3	11	1.5						
347485	5383725	G326	I.S.												
Rocky River Prospect															
1996-1997 Samples; Analyst: Amdel															
349625	5390125	G967		24		70	11.5	67	1.0	<0.05	0.1	0.3	0.1	<4	<10
349625	5390125	G968	<0.05												
349650	5390150	G969		<1		29	13	61	1.0	0.05	0.1	0.3	<0.1	<4	<10
349650	5390150	G970	69												
349650	5390325	G971		<1		48.5	10.0	78	1.0	<0.05	<0.1	0.3	<0.1	<4	<10
349650	5390325	G972	54												
349660	5390570	G973		1		85	12.5	200	2.0	0.10	0.1	0.5	<0.1	<4	<10
349660	5390570	G974	0.55												
349620	5390575	G975		1		77	19.0	145	2.0	0.10	0.2	0.6	0.1	7	<10
349620	5390575	G976	0.2												
349700	5390650	G977		1		12.0	12.5	29.0	2.5	0.05	0.1	0.3	<0.1	<4	<10
349700	5390650	G978	0.7												
349850	5390575	G979		<1		9.5	5.0	52	1.0	<0.05	<0.1	0.1	<0.1	<4	<10
349850	5390575	G980	0.15												
349975	5390475	G981		1		5.5	9.5	10.0	13.0	<0.05	0.1	0.4	<0.1	<4	<10
349975	5390475	G982	0.15												

254046

Goldstream - Titan Joint Venture

Corinna Project

EL43/94: Annual Report to 4.1.98

APPENDIX 3

MICROSCOPIC EXAMINATION OF GOLD PARTICLES IN PANNED CONCENTRATE SAMPLES, EL 43/94 CORINNA, WESTERN TASMANIA

by

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The following scales are used for describing the physical characteristics of gold grains:

CRYSTALLINITY	TRAVEL DAMAGE	COLOUR
complete	nil	pale
distinct	minor	medium
remnant	moderate	rich
nil	major	

See Nolan (1996) for illustrations of the physical characteristics

PANNED CONCENTRATE + AMG	GOLD GRAINS		CRYSTALLINITY	TRAVEL DAMAGE	COLOUR
Active stream gravels					
LEFROY RIDGE EAST PROSPECT					
G542 340350E 5380175N					
Magnetite, hematite, very minor epidote. Very minor TGHMS.	10	4	distinct	moderate	medium
		6	remnant	moderate	medium
G702 340190E 5380200N					
Magnetite, moderate hematite, minor epidote. Moderate TGHMS.	1		remnant	moderate	medium
G814 341075E 5383175N					
Moderate hematite & epidote. Minor magnetite Moderate TGHMS.	9	1	distinct	minor	medium
		5	remnant	moderate	medium
		3	nil	moderate	medium
G816 340850E 5383100N					
Strong magnetite & epidote Moderate hematite. hematite. Minor TGHMS.	12	2	distinct	minor	medium
		9	remnant	moderate	medium
		1	nil	major	medium
G818 340650E 5383050N					
Strong epidote. Minor magnetite & hematite. Moderate TGHMS.	2	1	remnant	moderate	medium
		1	nil	major	medium
ROCKY RIVER PROSPECT					
G1056 350080E 5389800N					
Very small fine grained heavy mineral component. Epidote, blue-green beryl, orange & black spinels. Negligible TGHMS.	nil				
G1058 350100E 5389780N					
As per sample G1056.	nil				
G1060 349630E 5389500N					

Magnetite,hematite (granular & specular) Epidote & minor fragments toumaline. Negligible TGHMS.	9	8	distinct	minor	medium
		1	distinct	minor	pale
		(Note: six of these gold grains display orange clay coating on protected surfaces)			

G1062 349650E 5389470N

Granular & specular hematite. (note nil magnetite) Epidote, fine iron pyrite. Possibly some fine chalcopyrite. Negligible TGHMS.	nil				

G1064 349825E 5389675N

Sample dominated by TGHMS strong in travel worn cassiterite. *Very minor epidote, hematite,* magnetite.	4	1	remnant	moderate	medium
		3	nil	major	medium

G1066 349980E 5389795N

As per sample G1064.	4	3	remnant	major	medium
		1	nil	major	medium

LUCY SPUR PROSPECT (NORTHERN PART)

G2044 347520E 5387790N

White to green mica. Minor fine particles of specular hematite. Dominant TGHMS with above average cassiterite.	3	1	remnant	moderate	medium
		2	nil	major	rich

G2060b 346750E 5387930N

White to iron rich mica. Minor fine magnetite & hematite. Dominant TGHMS with above average cassiterite.	6	1	remnant	moderate	rich
		5	nil	major	rich

Trap sites - Lucy Spur Prospect
Note: *Counts for G2001, 2003, 2004, 2006, 2092, 2096, 2098 were made in the field.*

EAST LUCY CREEK

G2001 346840E 5384595N nil

G2003 346840E 5384595N nil

G2004 346730E 5384545N nil

G2005 346710E 5384565N

Strong rutile, moderate mica, minor epidote, magnetite & pyrite. Moderate TGHMS.	9	7 2	remnant nil	moderate moderate	medium medium
G2006 346570E 5384460N	nil				
G2007a 346680E 5384550N					
Strong rutile. Moderate granular hematite & white mica. Minor magnetite, pyrite & angular chromite. Minor TGHMS.	77	5 68 4	distinct remnant nil	minor moderate major	medium medium medium
G2008 346145E 5384495N					
Strong waterworn to fresh rutile crystals. Strong iron rich mica. Moderate granular magnetite. Moderate TGHMS.	381	19 329 14 19	distinct remnant nil nil	minor moderate major major	medium medium medium rich
G2009 346200E 5384400N					
Dominant crystalline to water-worn rutile. Moderate granular magnetite. Minor TGHMS.	62	5 50 4 3	distinct remnant nil nil	minor moderate major major	medium medium medium rich
G2010 347215E 5384315N					
As per sample G2009. Negligible TGHMS.	177	26 119 30 2	distinct remnant nil nil	minor moderate major major	medium medium medium rich
G2011 346385E 5384245N					
Dominant crystalline to rounded rutile. Moderate mica & granular magnetite. Minor pyrite & chalcoprite. Negligible TGHMS.	11	1 10	distinct remnant	minor moderate	medium medium
CREEKS WEST OF LUCY SPUR TERTIARY WORKINGS					
G2012 346330E 5385345N					
Dominant magnetite & hematite. Negligible TGHMS.	9	9	remnant	moderate	medium
G2013a 346450E 5385530N					
Dominant waterworn rutile.	33	28	remnant	moderate	medium

Waterworn chips massive pyrite. Minor magnetite & hematite. Strong TGHMS.		5	nil	moderate	medium

NORTHERN PART OF LUCY CREEK, AND TRIBUTARIES

G2074b 346980E 538760N					
Minor white mica. Very minor magnetite. Dominant TGHMS.	16	16	nil	major	rich
G2086 347265E 5387050N					
Dominant granular & massive pyrite. Rutile with moderate travel damage. Minor magnetite. Moderate TGHMS.	43	1	distinct	moderate	medium
		6	remnant	moderate	medium
		36	nil	major	rich
G2090b 347445E 5387210N					
Minor mica & magnetite. Dominant TGHMS.	12	12	nil	major	rich
G2092 347430E 5387025N	nil				
G2094 347265E 5387050N					
Rutile with moderate travel damage. Minor white mica. Very minor magnetite. Dominant TGHMS.	173	7	distinct	minor	medium
		85	remnant	moderate	rich
		81	nil	major	rich

Note: No pyrite although same site as sample G2086.

G2096 347125E 5386775N	nil				
G2098 346970E 5387030N	nil				
G2100 346980E 5387060N					
Minor white mica. Very minor magnetite. Dominant TGHMS.	9	9	nil	major	rich

254051

Goldstream - Titan Joint Venture

Corinna Project

EL 43/94 Corinna: Annual Report to 4.1.98

APPENDIX 4

ROCK CHIP SAMPLE NUMBERS, AMG CO-ORDINATES, DESCRIPTIONS AND ANALYTIC DATA FOR LEFROY RIDGE EAST, LUCY SPUR AND ROCKY RIVER PROSPECTS. NUMBERS AND ANALYTICAL DATA FOR CHANNEL SAMPLES FROM LUCY SPUR ADITS.

Analytical Procedures - Amdel

Samples dried and fine pulverised. Gold determined by FA3 50gm fire assay fusion, GFA finish. Cu, Pb, Zn, As, Ag, Sb, Mo and Bi by IC2M aqua regia digest, ICP-OES/ICP-MS finish. Sn and W by XRF1.

Easting (m)	Northing (m)	Sample	Description
Lefroy Ridge East Prospect			
SELECTED ROCKS FROM LREDDH1			
340600	5381850	G079	Relatively massive metabasite with ~1% pyrite or pyrrhotite; 21.55m.
340600	5381850	G080	Ditto; 29.35m.
340600	5381850	G081	Mafic schist rich in disseminated pyrite with pyritic quartz vein; 34.6m.
340600	5381850	G082	Relatively massive metabasite, fractured; ?hematite on fractures; 35.8m.
340600	5381850	G083	Dark green mafic schist with ~10% pyrite disseminated and in seams parallel to cleavage; 45.6m.
340600	5381850	G084	Relatively massive metabasite; quartz, hematite and pyrite in fractures; 51.7m.
340600	5381850	G085	Mafic schist with white laminae due metamorphic segregation, no visible sulphide; 62.3m.
340600	5381850	G086	Relatively massive metabasite with 1-3mm pink carbonate (rhodochrosite) vein containing chalcopyrite; 67.9m.
340600	5381850	G087	Relatively massive metabasite with 3-5% disseminated magnetite, subordinate pyrite; 80.2m.
340600	5381850	G088	Vein of pale grey quartz, rhodochrosite, chlorite; 91.1m.
340600	5381850	G089	Mafic schist with white to pink segregation laminae, no visible sulphides; 115.4m.
340600	5381850	G090	Similar G089 but more massive; 131m.
340600	5381850	G091	Relatively massive metabasite with minor disseminated pyrite and magnetite; 138m.
340600	5381850	G092	Mafic schist with abundant white metamorphic laminae; 140.8m.
340600	5381850	G093	Mafic schist with common white to pink metamorphic laminae; chalcopyrite on fractures; 150.22m.
340600	5381850	G094	Similar G093 but no visible chalcopyrite; 163.9m.
340600	5381850	G095	Similar G094 with rhodochrosite-quartz veins.
340600	5381850	G096	Similar G095; 190.45m.
340600	5381850	G097	Similar G095; 199.7m.
ROCK CHIPS FROM OUTCROP			
340540	5380265	G077	Relatively massive, medium grained metagabbro with earthy white alteration of euhedral ?plagioclase, disseminated magnetite.
340605	5380175	G078	Mafic schist.
Lucy Spur Prospect			
ROCK CHIPS FROM OUTCROP			
348090	5385930	G065	Spongy textured limonite from bedload of creek.
347005	5384620	G1284	Granitoid withaltered feldspar phenocrysts (sericite, quartz) in groundmass of quartz, feldspar and tourmaline; 22.5m from portal of lower adit.
347005	5384620	G1285	Similar G1284, limonite seams after ?sulphide; 22m from portal of lower adit.
346970	5384620	G1286	Relatively massive metabasite, float.
347005	5384620	G1287	Subhorizontal vein in granitoid, milky quartz with limonitic patches; 23m from portal of lower adit.
346980	5384620	G1304	Shallow vein in granitoid, milky quartz with limonite; 30m from protal of upper adit.

Easting (m)	Northing (m)	Sample	Description
346980	5384620	G1305	Limonitic quartz vein near winze in stope off upper adit.
347125	5386775	G1324	Very oxidised, relatively massive, low quartz metamorphic rock.
347445	5387225	G1326	Mafic schist.
347260	5387045	G1327	Weathered schist, minor quartz.
346975	538750	G1328	Ditto.
		G2201-2216	See Appendix 1
		G2244-2251	See Appendix 1
		G2260-2280	See Appendix 1
		G2286	See Appendix 1
CHANNEL SAMPLES - 2M INTERVAL FOR EACH SAMPLE			
347005	5384620	G1269-1283	Lower adit; numbered from portal.
346980	5384620	G2217-2243	Upper adit; numbered from portal.
Rocky River Prospect			
349250	5389475	G190C	Massive pyrite with magnetite, minor mica and quartz.
349150	5389370	G1288	Pale quartzose rock with minor mica, pale yellowish sulphide.
349225	5389390	G1289, 1290	1.5m quartz vein with patches of white carbonate, chlorite, sulphide.
349225	5389390	G1291	Mafic schist adjacent vein, abundant disseminated pyrite with magnetite.
349555	5389400	G1292	Thinly banded quartz-magnetite rock.
349555	5389400	G1293	Magnetite-rich rock.
349735	5389515	G1294	Old prospectors cut. Thinly banded, leached pyrite-?hematite-silicate-?carbonate rock.
349775	5389620	G1295	Metagabbro with relict mafic grains.
349725	5387240	G1296	Quartz-muscovite phyllite with abundant pyrite in cleavage.
349755	5387390	G1297	Old prospectors cut. Deeply weathered iron-rich phyllite.
349215	5387580	G1302	Massive, light grey quartzose rock with 2-5% disseminated pyrite.
349530	5388650	G1306	Old workings. Hematitic quartz vein with patches of limonite box-work.
349530	5388650	G1307	Old workings. Mafic schist with open-spaced quartz veins.
349485	5388890	G1308	Old workings. Quartz vein with sulphide.
349630	5389570	G1310	Quartz reef.
349630	5389570	G1311	Hematite rich part of same quartz reef.
349630	5389570	G1312	Mafic schist adjacent reef of G1310.
349630	5389560	G1313	Quartz vein float from creek beside reef of G1310.
349545	5389830	G1314	Mafic gneiss with course cubic pyrite and magnetite.
349120	5389170	G1317	White vein quartz with gossanous vug.
349485	5388890	G1318	Old adit opposite Nolan Creek. Metamorphically Banded chlorite-carbonate rock.
349485	5388890	G1319	Same adit. Mafic schist.
349485	5388890	G1320	Same adit. Steep, 1.5m wide white to medium grey quartz vein with disseminated sulphides.
349485	5388890	G1321	Same vein in Rocky River. Carbonate, grey quartz, abundant sulphide.

Sample	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DL	1	1	0.5	0.5	0.5	0.5	0.05	0.1	0.1	0.1	4	10
Lefroy Ridge East Prospect												
SELECTED ROCKS FROM LREDDH1												
G079	1	-	140	16	290	8	0.05	0.3	0.3	<0.1	<4	<10
G080	1	-	115	10	185	8.5	0.1	0.3	0.6	<0.1	<4	<10
G081	<1	-	48.5	11.5	220	10	0.3	0.3	0.5	0.6	<4	<10
G082	<1	-	16	12.5	110	2	0.05	0.1	0.1	<0.1	<4	<10
G083	25	23	1600	5	185	16.5	0.6	0.1	0.2	0.2	<4	<10
G084	<1	-	100	3	100	4	0.05	0.2	<0.1	<0.1	<4	<10
G085	1	-	160	4	91	3.5	0.2	0.2	0.6	0.4	<4	<10
G086	1	-	250	6.5	91	1.5	0.15	0.3	0.5	<0.1	<4	<10
G087	3	2	280	9.5	110	2	0.15	0.2	0.9	<0.1	<4	<10
G088	<1	-	6	6.5	5.5	1	<0.05	<0.1	0.2	<0.1	<4	<10
G089	1	-	5.5	3.5	81	1.5	<0.05	0.2	<0.1	<0.1	<4	<10
G090	1	-	20.5	5	125	1	<0.05	0.1	<0.1	<0.1	<4	<10
G091	2	-	370	49.5	370	1	0.05	<0.1	1.6	0.2	4	<10
G092	1	-	15	5.5	280	0.5	<0.05	<0.1	<0.1	0.1	<4	<10
G093	68	70	3150	6	185	1	0.2	<0.1	<0.1	0.5	<4	<10
G094	<1	-	41	2	73	0.5	<0.05	<0.1	<0.1	<0.1	<4	<10
G095	<1	-	5.5	8	57	1	<0.05	<0.1	<0.1	<0.1	<4	<10
G096	<1	<1	23	6	59	0.5	<0.05	<0.1	<0.1	<0.1	<4	<10
G097	<1	<1	17	4.5	45.5	1	<0.05	<0.1	<0.1	<0.1	<4	<10
ROCK CHIPS FROM OUTCROP												
G077	3	3	43.5	38	135	1	<0.05	<0.1	0.1	<0.1	<4	<10
G078	24	-	7	21	105	3.5	0.05	0.1	0.2	<0.1	<4	<10
Lucy Spur Prospect												
ROCK CHIPS												
G065	2	-	12.5	4	3	3.5	0.1	0.1	0.7	0.1	10	<10
G1284	770	660	37	1.5	2	99	0.45	370	14	20	<4	<10
G1285	340	530	240	1.5	2.5	33.5	0.2	130	9.5	0.2	<4	<10
G1286	110	150	32.5	1	16.5	3	<0.05	6	4.1	<0.1	<4	<10
G1287	1700	1560	160	3	1.5	240	2.6	1250	23	8.5	<4	<10
G1304	4	-	4.5	2.5	<0.5	5	0.15	3	5.5	<0.1	<4	<10
G1305	49	39	31	1	4	2	0.1	1.4	0.8	0.2	<4	<10
G1324	2	-	110	36	12.5	3.5	<0.05	0.6	5.5	1.1	7	<10
G1326	<1	-	14.5	5	21	4	0.1	0.2	1.1	0.7	8	<10
G1327	1	-	3.5	2.5	10.5	1	<0.05	<0.1	3.1	0.1	<4	<10
G1328	1	-	84	4.5	6	1	<0.05	<0.1	2	<0.1	5	<10
G2201	<1	1	10	1	4	1	<0.05	<0.1	4.3	0.2	<4	<10
G2202	9	-	15	1.5	1.5	1	<0.05	<0.1	4.9	0.1	<4	<10
G2203	14	-	62	1	7	4	<0.05	<0.1	4.6	<0.1	<4	60
G2204	2	-	3	1	5	1.5	<0.05	<0.1	0.9	<0.1	11	<10
G2205	4	-	7	0.5	6.5	1	0.1	<0.1	28.5	<0.1	6	<10
G2206	2	-	11.5	1	6	<0.5	<0.05	<0.1	3.2	<0.1	<4	<10
G2207	<1	-	1	<0.5	11	1	<0.05	<0.1	1.4	<0.1	<4	<10
G2208	<1	-	20.5	7.5	57	1	<0.05	<0.1	1.1	0.1	<4	<10
G2209	<1	-	93	8.5	120	1	0.05	<0.1	2.1	0.2	<4	10
G2210	1	-	30	6.5	67	1	<0.05	<0.1	4.6	0.2	<4	<10
G2211	2	-	81	9.5	100	1.5	<0.05	<0.1	3.1	<0.1	<4	<10
G2212	7	-	270	5.5	115	3	<0.05	<0.1	3.4	0.2	<4	15
G2213	2	-	24.5	5	77	0.5	<0.05	<0.1	2.2	<0.1	<4	<10
G2214	3	-	115	10.5	105	1	<0.05	<0.1	4.1	0.2	<4	<10
G2215	20	-	70	11	100	2.5	<0.05	<0.1	1.7	<0.1	<4	<10

Sample	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DL	1	1	0.5	0.5	0.5	0.5	0.05	0.1	0.1	0.1	4	10
G2216	4	-	20	2.5	41	2	<0.05	<0.1	2.1	0.3	<4	<10
G2244	21	-	21	6	28.5	120	0.05	2.4	13	0.7	<4	<10
G2245	84	90	115	2.5	3	20	5	125	7	3	<4	<10
G2246	51	-	110	0.5	3	7.5	0.05	1	3.4	0.2	<4	<10
G2247	50	44	41.5	1	1	4.5	<0.05	0.9	1	<0.1	<4	20
G2248	<1	1	6	1.5	3.5	0.5	<0.05	<0.1	3.8	0.1	<4	<10
G2249	<1	-	4.5	1.5	1.5	0.5	0.65	0.2	2.9	<0.1	<4	<10
G2250	1	-	21.5	1	2	0.5	<0.05	0.1	4.1	<0.1	<4	<10
G2251	<1	-	4	<0.5	2	<0.5	<0.05	<0.1	3.6	<0.1	<4	<10
G2260	11	9	12.5	2	20.5	0.5	<0.05	<0.1	2.1	<0.1	94	<10
G2261	1	-	5	4	8	2.5	<0.05	<0.1	7	<0.1	460	10
G2262	<1	-	4	3	4.5	2	<0.05	<0.1	1.9	<0.1	93	20
G2263	<1	-	2	5.5	49.5	1.5	<0.05	0.1	1.3	<0.1	12	<10
G2264	1	-	23	2	22.5	1	<0.05	0.3	1.5	<0.1	<4	<10
G2265	<1	-	8.5	3.5	3	2	<0.05	<0.1	2.9	<0.1	13	<10
G2266	<1	-	1.5	6.5	65	1	<0.05	<0.1	1.4	<0.1	<4	<10
G2267	2	2	100	6	39.5	1.5	<0.05	<0.1	4.8	0.4	8	<10
G2268	<1	-	27	7	110	1.5	<0.05	<0.1	1.4	<0.1	<4	<10
G2269	2	-	50	3.5	7	1	<0.05	<0.1	0.6	0.1	<4	<10
G2270	<1	-	8.5	1.5	10.5	0.5	<0.05	<0.1	0.8	<0.1	<4	<10
G2271	<1	-	1.5	<0.5	<0.5	<0.5	<0.05	<0.1	2.7	<0.1	<4	<10
G2272	5	-	4.5	2	51	0.5	0.05	<0.1	2.8	0.9	10	<10
G2273	540	590	1900	17	21.5	11	0.45	2	70	10.5	<4	<10
G2274	960	-	4	0.5	1	<0.5	<0.05	0.1	2.3	<0.1	<4	<10
G2275	390	250	34	3	15	3	<0.05	<0.1	2.2	<0.1	9	<10
G2276	2	-	15.5	2.5	1.5	<0.5	<0.05	<0.1	2.3	<0.1	<4	<10
G2277	2	-	18.5	2.5	15.5	0.5	<0.05	<0.1	2.8	<0.1	<4	<10
G2278	<1	-	2	2	1.5	0.5	<0.05	<0.1	3.6	<0.1	<4	<10
G2279	11	-	73	19	145	2.5	<0.05	0.2	1.8	<0.1	<4	<10
G2280	9	-	8.5	1.5	3	1	0.2	0.2	3	<0.1	<4	<10
G2286	53	69	2	2	6.5	0.5	<0.05	<0.1	1.7	<0.1	16	<10
CHANNEL SAMPLES - 2M INTERVAL FOR EACH SAMPLE												
Lower adit, numbered from portal												
G1269	9	-	35	1.5	2.5	4	<0.05	2.8	0.7	1.3	4	<10
G1270	2	-	25	1.5	2.5	2.5	<0.05	1.7	0.9	0.3	<4	<10
G1271	3	-	20	1	3	4.5	<0.05	1.5	1	0.8	4	<10
G1272	2	-	16.5	1	2.5	3	0.3	1.6	3.6	1.3	<4	<10
G1273	6	-	26.5	2	3	6.5	0.1	3.5	1.8	3.3	6	<10
G1274	2	-	25	2	4.5	5	0.55	3.7	1.7	0.5	6	<10
G1275	4	-	18.5	3	3	9	0.3	8.5	3.2	3.6	5	<10
G1276	6	-	13	1	2	6	0.5	4.1	1.7	2.4	<4	<10
G1277	66	-	36.5	1	2	12	0.25	54	3.5	2.6	<4	<10
G1278	140	140	89	1.5	1.5	38	0.25	250	4.4	2.8	<4	15
G1279	27	44	35	1	1.5	35.5	0.2	100	6.5	0.6	<4	<10
G1280	310	230	430	2.5	5.5	37.5	0.1	99	10	0.3	<4	<10
G1281	37	38	170	2	10.5	7	0.3	43.5	16.5	0.8	<4	<10
G1282	5	-	58	1.5	2.5	2	0.1	4.7	4.3	<0.1	<4	10
G1283	6	-	25.5	2	1	2	0.1	2.4	3.1	0.3	<4	<10
Upper adit, numbered from portal												
G2217	<1	-	1.5	2.5	5.5	3.5	<0.05	0.7	0.7	<0.1	<4	<10
G2218	10	9	5	1.5	7.5	2.5	<0.05	0.6	1	<0.1	6	<10
G2219	5	-	49.5	3.5	10.5	3	<0.05	0.6	0.7	<0.1	<4	<10
G2220	11	12	9.5	1.5	1.5	8	<0.05	1	3.2	<0.1	5	<10

Sample	Au	Au Dp1	Cu	Pb	Zn	As	Ag	Sb	Mo	Bi	Sn	W
Units	ppb	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
DL	**1**	**1**	**0.5**	**0.5**	**0.5**	**0.5**	**0.05**	**0.1**	**0.1**	**0.1**	**4**	**10**
G2221	4	-	21.5	1.5	2.5	3	<0.05	0.9	3.3	<0.1	<4	<10
G2222	3	-	23	1.5	0.5	9	0.05	2.3	11	<0.1	<4	<10
G2223	5	-	17	2.5	1.5	4.5	0.05	2.7	13.5	0.1	<4	<10
G2224	3	-	16.5	8.5	3	5	0.05	1.4	6.5	<0.1	<4	<10
G2225	3	-	18.5	9	4.5	4	0.15	1.1	4.1	0.8	<4	<10
G2226	12	13	11	2.5	1.5	2	<0.05	0.2	2.3	<0.1	<4	<10
G2227	<1	-	7	1.5	0.5	2	<0.05	0.3	1.6	<0.1	<4	<10
G2228	3	-	5	1	1	1	<0.05	0.1	0.4	<0.1	<4	<10
G2229	1	-	6	2	<0.5	1	<0.05	0.3	1.5	<0.1	<4	<10
G2230	<1	-	4	0.5	<0.5	1	<0.05	0.6	1.7	<0.1	<4	<10
G2231	<1	-	6.5	0.5	<0.5	2	<0.05	1	4.3	0.1	<4	<10
G2232	10	14	19	2	2	15	<0.05	10.5	19.5	2.3	<4	<10
G2233	16	14	10.5	1	1	4.5	0.1	1	4.4	0.8	<4	<10
G2234	4	-	16	1	1.5	11	<0.05	2.3	4	0.4	<4	<10
G2235	3	-	12.5	1	1	8.5	<0.05	1.4	2.5	<0.1	<4	<10
G2236	3	-	8	0.5	1	4	<0.05	0.5	1.8	<0.1	<4	<10
G2237	4	-	16.5	2	2	4.5	0.05	1.2	4	0.5	<4	<10
G2238	3	-	17	1.5	1.5	2.5	<0.05	1.1	2.2	0.1	<4	<10
G2239	2	-	39.5	2	<0.5	4	<0.05	1	3.4	<0.1	<4	<10
G2240	3	-	15.5	0.5	2	3.5	<0.05	0.3	2.3	<0.1	<4	<10
G2241	4	-	21.5	1.5	3	2.5	<0.05	0.5	1.7	<0.1	<4	<10
G2242	2	-	29.5	1	3.5	1.5	<0.05	0.4	4.7	<0.1	<4	<10
G2243	7	6	41.5	3.5	15	4.5	<0.05	0.6	15.5	<0.1	<4	<10
Rocky River Prospect												
G190C	7	-	1150	8.5	7	67	0.8	0.3	4.7	3.4	5	<10
G1288	8	6	8	7.5	6.5	4	0.2	0.2	0.5	0.3	<4	<10
G1289	4	-	7	2	17.5	1	0.1	<0.1	0.1	<0.1	<4	<10
G1290	<1	-	29.5	2	30.5	1.5	0.1	<0.1	0.5	0.1	<4	<10
G1291	6	6	74	1	54	9.5	0.1	<0.1	0.6	1.7	7	<10
G1292	7	-	73	5.5	27.5	29	<0.05	4	<0.1	<0.1	9	<10
G1293	1	-	65	7	8.5	1.5	<0.05	2.4	2.3	0.1	<4	<10
G1294	130	150	4500	150	240	30.5	56	1.4	1.4	1.7	<4	<10
G1295	2	<1	95	3.5	115	1.5	0.9	0.1	<0.1	<0.1	<4	<10
G1296	1	-	58	9	49	10	0.2	0.5	1.2	0.3	150	<10
G1297	14	15	500	30	41	200	0.1	4.3	2	1.2	<4	<10
G1302	<1	-	5	2.5	10	1.5	0.1	<0.1	2.7	0.1	<4	<10
G1306	2	-	3	1.5	22.5	1.5	<0.05	<0.1	0.4	<0.1	<4	<10
G1307	<1	-	31.5	0.5	135	1	<0.05	<0.1	<0.1	<0.1	<4	<10
G1308	220	220	210	1.5	32.5	1.5	0.1	<0.1	0.2	<0.1	<4	<10
G1310	6	-	10.5	4	9.5	55	<0.5	11	0.3	<0.1	<4	<10
G1311	2	-	24	7	34.5	19	<0.5	4	0.2	0.4	<4	20
G1312	78	75	230	7.5	200	5	0.15	0.9	0.3	<0.1	<4	10
G1313	<1	-	44	1.5	9.5	3	<0.5	0.1	0.2	<0.1	<4	<10
G1314	24	-	59	40	105	5	2.1	<0.1	6	16.5	<4	<10
G1317	<1	<1	6	<0.5	1	0.5	<0.5	<0.1	0.1	<0.1	<4	<10
G1318	27	26	800	2	100	9	0.15	<0.1	0.3	0.2	11	<10
G1319	13	-	310	1	155	<0.5	0.05	<0.1	0.2	<0.1	<4	<10
G1320	390	380	410	1.5	34.5	0.5	0.1	<0.1	0.3	<0.1	<4	<10
G1321	34	24	1200	4.5	65	3	0.25	<0.1	<0.1	0.3	<4	<10

REFERENCE

- EL 43/94 Boundary
- Pieman River State Reserve
- Road
- Drilling Track
- Walking Track or Cut Line
- G537 G538 • Sample Site
  Odd Number: -80# Sample
  Even Number: Panned Concentrate Sample
- Inclined diamond drillhole with depth and dip

5 cm

0 100 200 300 400
Scale 1:5000

AMG North / Mag. North 11.8°

97-4108 Vol 1 of 3
ANNUAL REPORT-EL 43/94
GOLDSTREAM MINING/TITAN RES..
NJ TURNER GEOLOGICAL RES.

254057

Map Reference
Land Information Bureau, Tasmania 1:25,000
Map Series: HARDWICKE 3238; LIVINGSTONE 3438;

EL 43/94 CORINNA Plan: 1

GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture

LEFROY RIDGE EAST PROSPECT
Access; drainage; stream sediment sample numbers and locations; DDH locations

File:	4394PL11.dwg
Date:	25 Nov. 1997
Compiled:	Nic Turner
Drawn:	Rocco Traviersa ART Carto~Graphics
Scale:	1:5,000

Contractor: N.J. Turner Geological Services Pty. Ltd.

REFERENCE

- EL 43/94 Boundary
- Pieman River State Reserve
- Road
- Sample location with "Au*,Au,Ag" — Au*(pan.con., micrograms per 9 litres of -4cm gravel), Au(-80#,ppb), Ag(-80#,ppm).
- Geological Boundary
- Fault
- Inclined diamond drillhole with depth and dip

5 cm

0 100 200 300 400

Scale 1:5000

AMG North — Mag. North — 11.8°

97-4108

Vol 1 of 3

ANNUAL REPORT-EL 43/94
GOLDSTREAM MINING/TITAN RES.
NJ TURNER GEOLOGICAL RES.

254058

Map Reference
Land Information Bureau, Tasmania 1:25,000
Map Series: HARDWICKE 3238; LIVINGSTONE 3438;

EL 43/94 CORINNA	Plan: 2
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture	
LEFROY RIDGE EAST PROSPECT Drainage; Stream sediment sample results for gold in panned concentrate, gold and silver in minus 80 mesh; Geology; DDH locations	File: 4394PL29.dwg Date: 25-Nov-1997 Compiled: Nic Turner Drawn: Rocco Travierso ART Carto-Graphics Scale: 1:5,000
Contractor: N.J. Turner Geological Services Pty. Ltd.	

97-4108
Vol 1 of 3

ANNUAL REPORT-EL 43/94
GOLDSTREAM MINING/TITAN RES..
NJ TURNER GEOLOGICAL RES.

REFERENCE

- Pieman River State Reserve
- Walking Track or Cut Line
- • Sample Site
  - Odd Number: -80# Sample
  - Even Number: Panned Concentrate Sample
- Inclined diamond drill hole with depth and dip

254059

0 100 200 300 400 metres

Scale 1 : 5000

EL 43/94 CORINNA	Plan No.: 3
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture	
LUCY SPUR PROSPECT Access; drainage; stream sediment sample numbers and locations; DDH locations	File: 4394PL12.dwg
	Date: 24 Nov. 1997
	Compiled: Nic Turner
	Drawn: Rocco Travierso ART Carto~Graphics
	Scale: 1:5,000
Contractor: N.J. Turner Geological Services Pty. Ltd.	


Tertiary Gravel
Tertiary Gravel
Tertiary Gravel
Nancy Spur Workings
Lucy Spur Workings
Tertiary Gravel
HELIPAD
HELIPAD
LUCY
FORMATION
BOWRY
FORMATION
LS DDH1 200m,45°DIP
LS DDH2 300m,45°DIP
LS DDH3 300m,45°DIP
Adits
Granitoid
Pieman River
State Reserve
5 cm
97-4108
Vol 1 of 3
ANNUAL REPORT-EL 43/94
GOLDSTREAM MINING/TITAN RES..
NJ TURNER GEOLOGICAL RES.
REFERENCE
Pieman River State Reserve
"Au*,Au,Ag"
Sample location with Au*(pan,con., micrograms per 9 litres of -4cm gravel), Au(-80#,ppb), Ag(-80#,ppm).
Geological Boundary
254060
Inclined diamond drillhole with depth and dip
0 100 200 300 400 metres
Scale 1 : 5000
AMG North
Mag. North
11.8°
EL 43/94 CORINNA
Plan: 4
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture
LUCY SPUR PROSPECT
Drainage; Stream sediment sample results for gold in panned concentrate, gold and silver in minus 80 mesh; Geology; DDH locations
File: 4394PL21.dwg
Date: 25 Nov. 1997
Compiled: Nic Turner
Drawn: Rocco Travierso ART Carto~Graphics
Scale: 1:5,000
Contractor: N.J. Turner Geological Services Pty. Ltd.

97-4108 Vol 1 of 3
ANNUAL REPORT-EL 43/94
GOLDSTREAM MINING/TITAN RES..
NJ TURNER GEOLOGICAL RES.

254061

EL 43/94 CORINNA	Plan: 6
GOLDSTREAM MINING NL & TITAN RESOURCES NL Joint Venture	
ROCKY RIVER PROSPECT Drainage; Stream sediment sample results for gold in panned concentrate, gold and silver in minus 80 mesh; Geology; DDH locations	File: 4394PL32.dwg
	Date: 28 Nov. 1997
	Compiled: Nic Turner
	Drawn: Rocco Travierso ART Carto~Graphics
	Scale: 1:5,000
Contractor: N.J. Turner Geological Services Pty. Ltd.	

97-4108

Appendices 5 & 6 of Turner, N.J. 1997 Exploration Licence No 43/94 Corinna, western Tasmania. Annual Report to 4.1.98. Goldstream Mining NL and Titan Resources NL. Volume 2 of 3 of the annual report.

Appendix 5. Logs for diamond drill holes LREDDH1 and 2; LSDDH 1,2 and 3; RRDDH1, 2 and 3.

Appendix 6. Crawford A.J. 1997. Petrographic report on samples from diamond drill holes LSDDH3, RRDDH1 and RRDDH3m EL 43/94. Corinna, western Tasmania. Report to Goldstream Mining NL.

This volume was assembled by N.J. Turner Geological Services Pty Ltd. December, 1997.

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Goldstream - Titan Joint Venture

Corinna Project

EL43/94: Annual Report to 4.1.98

APPENDIX 5

LOGS FOR DIAMOND DRILL HOLES LREDDH1 AND 2; LSDDH1, 2 AND 3; RRDDH1,2 AND 3

1. Geotechnical log
2. Magnetic susceptibility, assay data
3. Camera surveys
4. Summary lithological log
   LREDDH1, LSDDH3, RRDDH1 and 3

Analytical Procedures - Analabs Pty Ltd

GC0001 - GC1564: Samples dried and fine pulverised. Gold determined by GG3609 30gm fire assay, AAS. Cu, Pb, Zn, Ag, As by GA140 aqua regia/perchloric acid digest, AAS (As also by HA140 hydride, AAS)

GC1565 onwards: Samples dried and fine pulverised, Gold determined by F630 30 gm fire assay, lead collection, AAS. G102 triple acid digest with Cu, Pb, Zn, Ag, As determined by A102 AAS and As by H102 hydride AAS. G103 triple acid digest with Ag by AAS.

Detection Limits

Element	Au	Cu	Pb	Zn	Ag	As
Units	ppm	ppm	ppm	ppm	ppm	ppm
GC0001 - 1564	0.008/0.01	2	3	2	1	0.5
GC1565 onwards	0.01	2	3	2	1	1

Goldstream – Titan Corinna Joint Venture
DRILL LOGS

Hole I.D.: **LREDDH1**
Tenement: EL43/94
Prospect: Lefroy Ridge East
AMG: 340600mE5381850mN
Azimuth: 102°AMG
Dip: 50°
Drill: LF70
Core: HQ to 36m
NQ to 203m
Contractor: Almac Drilling
Completed: 26/11/96

1. Geotechnical log

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
5.00	6.50	600	40	35	10	2	8
6.50	8.00	620	41	64	6	1	5
8.00	9.50	1010	67	84	13	2	11
9.50	11.00	960	64	78	9	1	8
11.00	12.50	800	53	56	>25	>25	-
12.50	14.00	100	7	0	-	-	-
14.00	15.00	0	0	0	-	-	-
15.00	17.00	980	49	72	>50	>50	-
17.00	18.50	700	46	75	>50	>50	-
18.50	20.00	900	60	70	>50	>50	-
20.00	21.50	1110	74	45	>50	>50	-
21.50	23.00	1280	85	52	>50	>50	-
23.00	24.50	1150	77	72	>25	>25	-
24.50	26.00	1350	90	70	>50	>50	-
26.00	27.50	1350	90	59	>25	>25	-
27.50	28.30	650	81	51	>50	>50	-
28.30	29.30	800	80	33	>50	>50	-
29.30	30.50	1010	84	25	>50	>50	
30.50	33.20	2500	95	63	>50	>50	
33.20	34.50	900	69	23	>100	>100	
34.50	36.00	1250	83	43	>100	>100	
36.00	38.00	1855	93	73	20+	16+	4
38.00	41.00	3000?	100	58	50+	44+	6
41.00	43.90	2900?	100	50	40+	35+	5
43.90	46.20	2300	100	41	>50	>35	>5
46.20	48.60	2200	96	38	>25	>21	>4
48.60	50.00	1250	89	44	13	10	3
50.00	52.30	1950	85	43	19	8	5
52.30	56.00	1850	68	46	>100	-	-
56.00	58.50	2150	86	67	>50	-	>5
58.50	61.60	3100	100	90	19	14	5
61.60	62.50	900	100	100	>25	-	-
62.50	65.80	3300	100	80	24	4	20
65.80	67.80	2000	100	95	9	2	7

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
67.80	70.90	3050	98	87	14	4	10
70.90	73.00	2100	100	29	>25	2	>23
73.00	76.00	3000	100	91	16	2	14
76.00	79.00	3000	100	90	18	3	15
79.00	82.00	3000	100	85	15	2	13
82.00	85.00	3000	100	91	16	2	14
85.00	88.00	3000	100	87	23	2	21
88.00	91.00	3000	100	92	18	2	16
91.00	94.00	3000	100	93	20	4	16
94.00	97.00	3000	100	87	14	1	13
97.00	100.00	3000	100	95	13	2	11
100.00	104.00	4000	100	98	18	3	15
104.00	107.00	3000	100	92	9	0	9
107.00	110.00	3000	100	95	16	1	15
110.00	113.00	3000	11	97	13	0	13
113.00	116.00	2800	93	85	>50	>10	>40
116.00	119.00	3000	100	100	10	3	7
119.00	122.00	3000	100	86	17	2	15
122.00	125.00	3000	100	90	13	2	11
125.00	128.00	3000	100	92	16	2	14
128.00	131.00	3000	100	91	13	2	11
131.00	134.00	3000	100	91	11	-	11
134.00	137.00	3000	100	97	13	3	10
137.00	140.00	3000	100	90	>50	>10	>40
140.00	143.00	2990	99.5	96	>25	1	>24
143.00	146.00	3000	100	88	>25	3	>22
146.00	148.70	2700	100	91	>50	>10	>40
148.70	151.80	3100	100	90	16	3	13
151.80	154.90	3100	100	97	14	1	13
154.90	158.00	3050	98	90	21	2	19
158.00	161.00	2900	97	80	>100	>10	>90
161.00	164.00	3000	100	60	>50	4	>46
164.00	167.00	3000	100	57	>50	4	>46
167.00	169.30	1850	80	52	>100	3	>97
169.30	172.10	2750	98	62	26	1	25
172.10	175.20	3100	100	89	19	4	15
175.20	178.30	3100	100	90	26	2	24
178.30	181.40	3100	100	72	33	5	28
181.40	184.50	2900	94	93	16	2	14
184.50	187.30	2800	100	77	>50	4	>46
187.30	190.40	3100	100	47	>50	3	>47
190.40	193.50	3000	97	85	>50	6	>44
193.50	196.6	3100	100	40	>100	2	>98
196.60	200.70	4100	100	64	>100	0	>100
200.70	203.00	2150	93	56	>25	0	>25

2. Assay numbers = half core; magnetic susceptibility = average of top, middle, bottom *of 1m intervals, measured on a round, unsplit core.*

Depth										
From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As
4.3	6	0.04	GC0202	<0.008	-	83	14	143	1	12.3
6	7	0.07	GC0203	<0.008	-	185	14	484	2	10.9
7	8	0.065	GC0204	<0.008	-	210	13	69	2	4.2
8	9	0.076	GC0205	<0.008	-	245	26	532	2	9.5
9	10	0.075	GC0206	<0.008	-	14	47	206	3	2.3
10	11	0.075	GC0207	<0.008	-	309	35	324	3	1.7
11	12	0.09	GC0208	<0.008	-	184	30	677	2	<0.5
12	14	0.05	GC0209	<0.008	-	138	16	256	1	3.1
15	16	0.17	GC0210	<0.008	-	103	13	271	2	4.1
16	17	0.12	GC0210	<0.008	-	103	13	271	2	4.1
17	18	0.18	GC0210	<0.008	-	103	13	271	2	4.1
18	19	0.16	GC0210	<0.008	-	103	13	271	2	4.1
19	20	0.17	GC0211	<0.008	-	6	13	442	2	17.1
20	21	0.25	GC0212	<0.008	-	7	5	290	1	12.6
21	22	0.31	GC0213	<0.008	-	86	9	255	2	5.6
22	23	0.34	GC0214	<0.008	-	7	<3	239	1	7.5
23	24	0.34	GC0215	<0.008	-	108	8	319	1	5.5
24	25	0.37	GC0216	<0.008	-	108	6	212	2	5
25	26	0.34	GC0217	<0.008	<0.008	101	9	175	<1	7.2
26	27	0.40	GC0218	0.029	-	101	13	190	1	9.7
27	28	0.39	GC0219	0.021	-	129	9	172	1	7.2
28	29	0.40	GC0220	<0.008	-	114	12	131	1	6.6
29	30	0.45	GC0221	<0.008	-	200	18	182	2	18.9
30	31	0.40	GC0222	<0.008	-	159	21	172	1	14.7
31	32	9.90	GC0223	<0.008	-	109	15	166	1	13.3
32	33	4.93	GC0224	<0.008	-	87	22	163	2	12.4
33	34	0.59	GC0225	<0.008	-	94	10	138	1	13.5
34	35	0.49	GC0226	0.013	-	95	<3	183	1	11.6
35	36	1.11	GC0227	<0.008	-	86	<3	172	1	5.3
36	37	1.04	GC0228	<0.008	-	46	14	149	1	7.6
37	38	10.4	GC0229	<0.008	-	84	10	125	1	4.7
38	39	15.4	GC0230	<0.008	-	151	9	102	1	4
39	40	33.0	GC0231	<0.008	-	82	7	117	1	16.4
40	41	5.75	GC0232	<0.008	-	295	4	129	1	8.4
41	42	3.08	GC0233	<0.008	-	279	6	137	1	7
42	43	0.65	GC0234	<0.008	-	218	7	158	2	6.9
43	44	0.65	GC0235	<0.008	-	246	<3	185	2	5.1
44	45	0.59	GC0236	<0.008	-	104	<3	153	1	3.9
45	46	0.50	GC0237	<0.008	-	132	<3	180	2	2.8
46	47	0.50	GC0238	<0.008	-	74	<3	144	1	2.7
47	48	0.42	GC0239	<0.008	-	145	<3	113	1	3
48	49	0.45	GC0240	<0.008	-	170	<3	110	1	2.8
49	50	0.46	GC0241	<0.008	-	243	<3	111	1	16.4
50	51	0.46	GC0242	<0.008	-	110	314	96	1	10.9
51	52	0.49	GC0243	<0.008	-	128	27	96	1	16.8
52	53	0.50	GC0244	<0.008	<0.008	143	18	84	1	13.4
53	54	0.55	GC0245	<0.008	-	161	14	105	1	14.5
54	55	0.36	GC0246	<0.008	-	283	4	161	2	8.5

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As
55	56	0.17	GC0247	<0.008	-	229	<3	169	3	16.3
56	57	0.26	GC0248	<0.008	-	47	<3	92	2	4.8
57	58	0.32	GC0249	<0.008	-	11	<3	85	2	2.3
58	59	0.28	GC0250	<0.008	-	7	<3	80	1	2
59	60	0.32	GC0251	<0.008	-	163	<3	109	2	1.8
60	61	0.27	GC0252	<0.008	-	6	<3	99	2	1.7
61	62	0.23	GC0253	<0.008	-	6	<3	93	2	1.9
62	63	0.21	GC0254	<0.008	-	6	<3	105	3	3.4
63	64	0.32	GC0255	<0.008	-	62	<3	102	2	3.2
64	65	0.23	GC0256	<0.008	-	107	<3	117	2	3
65	66	0.38	GC0257	<0.008	-	6	<3	123	3	10.2
66	67	0.40	GC0258	<0.008	-	6	<3	140	2	4.5
67	68	22.3	GC0259	<0.008	-	205	11	96	2	7.3
68	69	1.66	GC0260	<0.008	-	245	<3	95	2	4.5
69	70	6.92	GC0261	<0.008	-	244	4	92	1	6.7
70	71	5.20	GC0262	0.01	-	274	3	83	2	5
71	72	3.02	GC0263	<0.008	<0.008	204	41	108	2	4.4
72	73	3.92	GC0264	<0.008	-	213	4	109	1	5.5
73	74	15.6	GC0265	<0.008	-	220	<3	92	1	<0.5
74	75	8.60	GC0266	<0.008	-	239	<3	99	1	<0.5
75	76	15.6	GC0267	<0.008	-	232	4	98	1	<0.5
76	77	13.0	GC0268	0.015	-	243	3	111	1	<0.5
77	78	27.3	GC0269	0.155	-	238	6	91	1	<0.5
78	79	27.3	GC0270	<0.008	-	253	9	93	2	<0.5
79	80	25.7	GC0271	<0.008	-	276	8	85	1	<0.5
80	81	31.4	GC0272	<0.008	-	247	9	86	6	<0.5
81	82	34.1	GC0273	<0.008	<0.008	264	20	108	2	3.8
82	83	28.8	GC0274	<0.008	<0.008	1024	3	144	3	<0.5
83	84	13.8	GC0275	<0.008	-	785	5	150	2	<0.5
84	85	0.32	GC0276	<0.008	-	19	<3	122	1	<0.5
85	86	1.37	GC0277	<0.008	-	6	6	77	1	<0.5
86	87	0.24	GC0278	0.044	0.035	4	5	65	1	<0.5
87	88	0.33	GC0279	<0.008	-	3	<3	67	<1	<0.5
88	89	0.28	GC0280	<0.008	-	4	<3	73	1	<0.5
89	90	0.33	GC0281	<0.008	-	3	<3	71	1	<0.5
90	91	0.27	GC0282	<0.008	-	2	6	76	1	<0.5
91	92	0.19	GC0283	<0.008	-	5	5	66	1	4.3
92	93	0.19	GC0284	<0.008	-	3	<3	81	1	<0.5
93	94	0.24	GC0285	<0.008	-	<2	5	66	1	<0.5
94	95	0.17	GC0286	<0.008	-	5	<3	74	1	<0.5
95	96	0.21	GC0287	<0.008	<0.008	6	<3	94	<1	<0.5
96	97	0.25	GC0288	<0.008	-	4	3	8	1	<0.5
97	98	0.21	GC0289	<0.008	-	3	5	106	1	<0.5
98	99	0.32	GC0290	<0.008	-	3	<3	101	1	<0.5
99	100	0.36	GC0291	<0.008	-	44	<3	113	1	<0.5
100	101	0.33	GC0292	<0.008	-	10	5	119	1	<0.5
101	102	0.27	GC0293	<0.008	-	2	4	120	<1	5.3
102	103	0.25	GC0294	<0.008	-	<2	11	137	1	4.6
103	104	0.29	GC0295	<0.008	-	3	8	124	1	4.4
104	105	0.28	GC0296	<0.008	-	3	12	136	<1	4.9
105	106	0.29	GC0297	<0.008	-	<2	5	121	<1	3.9

Depth										
From (m)	To (m)	Magnetic *Susceptibility*	Assay *Number*	Au	Au(R)	Cu	Pb	Zn	Ag	As
55	56	0.17	GC0247	<0.008	-	229	<3	169	3	16.3
56	57	0.26	GC0248	<0.008	-	47	<3	92	2	4.8
57	58	0.32	GC0249	<0.008	-	11	<3	85	2	2.3
58	59	0.28	GC0250	<0.008	-	7	<3	80	1	2
59	60	0.32	GC0251	<0.008	-	163	<3	109	2	1.8
60	61	0.27	GC0252	<0.008	-	6	<3	99	2	1.7
61	62	0.23	GC0253	<0.008	-	6	<3	93	2	1.9
62	63	0.21	GC0254	<0.008	-	6	<3	105	3	3.4
63	64	0.32	GC0255	<0.008	-	62	<3	102	2	3.2
64	65	0.23	GC0256	<0.008	-	107	<3	117	2	3
65	66	0.38	GC0257	<0.008	-	6	<3	123	3	10.2
66	67	0.40	GC0258	<0.008	-	6	<3	140	2	4.5
67	68	22.3	GC0259	<0.008	-	205	11	96	2	7.3
68	69	1.66	GC0260	<0.008	-	245	<3	95	2	4.5
69	70	6.92	GC0261	<0.008	-	244	4	92	1	6.7
70	71	5.20	GC0262	0.01	-	274	3	83	2	5
71	72	3.02	GC0263	<0.008	<0.008	204	41	108	2	4.4
72	73	3.92	GC0264	<0.008	-	213	4	109	1	5.5
73	74	15.6	GC0265	<0.008	-	220	<3	92	1	<0.5
74	75	8.60	GC0266	<0.008	-	239	<3	99	1	<0.5
75	76	15.6	GC0267	<0.008	-	232	4	98	1	<0.5
76	77	13.0	GC0268	0.015	-	243	3	111	1	<0.5
77	78	27.3	GC0269	0.155	-	238	6	91	1	<0.5
78	79	27.3	GC0270	<0.008	-	253	9	93	2	<0.5
79	80	25.7	GC0271	<0.008	-	276	8	85	1	<0.5
80	81	31.4	GC0272	<0.008	-	247	9	86	6	<0.5
81	82	34.1	GC0273	<0.008	<0.008	264	20	108	2	3.8
82	83	28.8	GC0274	<0.008	<0.008	1024	3	144	3	<0.5
83	84	13.8	GC0275	<0.008	-	785	5	150	2	<0.5
84	85	0.32	GC0276	<0.008	-	19	<3	122	1	<0.5
85	86	1.37	GC0277	<0.008	-	6	6	77	1	<0.5
86	87	0.24	GC0278	0.044	0.035	4	5	65	1	<0.5
87	88	0.33	GC0279	<0.008	-	3	<3	67	<1	<0.5
88	89	0.28	GC0280	<0.008	-	4	<3	73	1	<0.5
89	90	0.33	GC0281	<0.008	-	3	<3	71	1	<0.5
90	91	0.27	GC0282	<0.008	-	2	6	76	1	<0.5
91	92	0.19	GC0283	<0.008	-	5	5	66	1	4.3
92	93	0.19	GC0284	<0.008	-	3	<3	81	1	<0.5
93	94	0.24	GC0285	<0.008	-	<2	5	66	1	<0.5
94	95	0.17	GC0286	<0.008	-	5	<3	74	1	<0.5
95	96	0.21	GC0287	<0.008	<0.008	6	<3	94	<1	<0.5
96	97	0.25	GC0288	<0.008	-	4	3	8	1	<0.5
97	98	0.21	GC0289	<0.008	-	3	5	106	1	<0.5
98	99	0.32	GC0290	<0.008	-	3	<3	101	1	<0.5
99	100	0.36	GC0291	<0.008	-	44	<3	113	1	<0.5
100	101	0.33	GC0292	<0.008	-	10	5	119	1	<0.5
101	102	0.27	GC0293	<0.008	-	2	4	120	<1	5.3
102	103	0.25	GC0294	<0.008	-	<2	11	137	1	4.6
103	104	0.29	GC0295	<0.008	-	3	8	124	1	4.4
104	105	0.28	GC0296	<0.008	-	3	12	136	<1	4.9
105	106	0.29	GC0297	<0.008	-	<2	5	121	<1	3.9

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As
106	107	0.27	GC0298	<0.008	-	2	5	118	<1	4.4
107	108	0.22	GC0299	<0.008	-	2	4	118	<1	9.7
108	109	0.25	GC0300	<0.008	-	<2	11	123	<1	6.9
109	110	0.32	GC0301	<0.008	-	<2	4	131	<1	6.1
110	111	0.51	GC0302	<0.008	-	<2	<3	150	<1	6.5
111	112	0.30	GC0303	<0.008	-	<2	3	111	1	3.8
112	113	0.32	GC0304	<0.008	-	<2	<3	117	<1	4.9
113	114	0.33	GC0305	<0.008	-	<2	8	107	<1	5.6
114	115	0.35	GC0306	<0.008	-	<2	5	116	1	5.2
115	116	0.26	GC0307	<0.008	<0.008	5	<3	106	1	5.3
116	117	0.35	GC0308	<0.008	-	2	<3	113	1	4
117	118	0.30	GC0309	<0.008	-	<2	5	112	1	11.3
118	119	0.31	GC0310	<0.008	-	2	<3	90	1	6.2
119	120	0.39	GC0311	<0.008	-	2	<3	115	1	6.2
120	121	0.32	GC0312	<0.008	-	2	6	125	1	5.8
121	122	0.31	GC0313	<0.008	-	6	9	104	1	3.9
122	123	19.6	GC0314	<0.008	-	261	7	136	3	6.9
123	124	24.7	GC0315	<0.008	-	222	10	154	2	5.2
124	125	12.2	GC0316	<0.008	-	135	3	114	2	2.3
125	126	10.6	GC0317	<0.008	-	167	3	107	2	1.7
126	127	2.65	GC0318	<0.008	-	130	7	124	2	2.6
127	128	0.39	GC0319	<0.008	-	3	12	107	1	8.6
128	129	0.32	GC0320	<0.008	-	3	13	102	1	4.4
129	130	0.12	GC0321	<0.008	-	2	7	120	1	3.3
130	131	0.33	GC0322	<0.008	-	11	12	134	1	2.6
131	132	0.35	GC0323	<0.008	-	4	10	121	<1	2.2
132	133	1.40	GC0324	<0.008	-	3	8	110	1	1.8
133	134	28.2	GC0325	<0.008	-	8	4	135	1	3.6
134	135	29.5	GC0326	<0.008	-	7	<3	236	1	11.4
135	136	40.7	GC0327	<0.008	-	24	9	220	3	3.6
136	137	38.3	GC0328	<0.008	-	189	<3	216	2	1.5
137	138	24.8	GC0329	<0.008	-	254	15	234	3	<0.5
138	139	9.92	GC0330	<0.008	-	220	8	342	3	<0.5
139	140	31.7	GC0331	0.008	-	262	12	282	3	<0.5
140	141	39.0	GC0332	0.011	-	244	9	229	3	<0.5
141	142	23.0	GC0333	<0.008	-	26	4	218	1	<0.5
142	143	35.4	GC0334	<0.008	-	36	4	191	2	<0.5
143	144	16.1	GC0335	<0.008	-	34	11	219	3	10.8
144	145	1.35	GC0336	<0.008	-	7	4	144	2	0.7
145	146	0.39	GC0337	0.013	-	5	<3	179	1	1
146	147	0.53	GC0338	<0.008	-	9	<3	187	2	<0.5
147	148	0.92	GC0339	<0.008	-	7	<3	243	2	0.7
148	149	3.73	GC0340	<0.008	-	9	3	257	3	0.5
149	150	17.5	GC0341	0.008	-	9	5	254	3	7.5
150	151	21.5	GC0342	<0.008	<0.008	32	9	262	3	2
151	152	62.2	GC0343	<0.008	-	388	6	214	2	0.7
152	153	39.2	GC0344	0.018	0.02	1891	5	164	2	<0.5
153	154	5.03	GC0345	0.138	0.12	2679	7	147	2	<0.5
154	155	0.70	GC0346	<0.005	-	2	<3	124	1	0.9
155	156	0.60	GC0347	<0.005	-	5	<3	166	2	0.9
156	157	1.12	GC0348	<0.005	-	7	<3	200	1	0.6

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As
157	158	7.57	GC0349	<0.005	-	78	4	221	2	1.2
158	159	9.26	GC0350	<0.005	-	29	7	182	2	9.4
159	160	0.33	GC0351	<0.005	-	60	7	101	2	2.9
160	161	0.28	GC0352	<0.005	-	131	4	111	2	1.8
161	162	0.65	GC0353	<0.005	-	243	15	161	2	2.3
162	163	0.51	GC0354	<0.005	-	101	8	113	2	2
163	164	0.35	GC0355	<0.005	-	9	5	82	1	<0.5
164	165	0.35	GC0356	<0.005	-	25	11	76	2	0.8
165	166	0.31	GC0357	<0.005	<0.005	50	7	87	2	0.8
166	167	0.31	GC0358	<0.005	-	47	6	90	2	<0.5
167	168	0.73	GC0359	<0.005	-	47	14	91	2	1.4
168	169	0.27	GC0360	<0.005	-	94	48	83	2	8.9
169	170	0.26	GC0361	<0.005	-	99	33	84	2	4.8
170	171	0.26	GC0362	<0.005	-	63	21	79	3	1.1
171	172	0.34	GC0363	<0.005	-	461	12	67	2	<0.5
172	173	0.33	GC0364	<0.005	<0.005	5	6	73	1	2
173	174	0.36	GC0365	<0.005	-	3	6	70	2	3
174	175	0.30	GC0366	<0.005	-	<2	7	71	1	1.8
175	176	0.27	GC0367	<0.005	<0.005	3	9	73	1	2.1
176	177	0.37	GC0368	<0.005	-	3	13	103	2	2
177	178	0.35	GC0369	<0.005	-	3	8	73	2	1.6
178	179	0.36	GC0370	<0.005	-	<2	8	77	1	11.4
179	180	0.30	GC0371	<0.005	-	20	10	68	1	4.8
180	181	0.24	GC0372	<0.005	-	13	9	50	1	2.8
181	182	0.47	GC0373	<0.005	-	19	7	69	1	3.9
182	183	0.41	GC0374	<0.005	-	10	13	68	1	3.5
183	184	0.43	GC0375	0.021	-	5	12	72	1	4.8
184	185	0.33	GC0376	<0.005	-	4	6	77	2	4.2
185	186	0.30	GC0377	<0.005	-	11	10	65	1	7.3
186	187	0.25	GC0378	<0.005	-	16	12	64	1	4.5
187	188	0.24	GC0379	<0.005	-	103	<3	85	1	4.8
188	189	0.21	GC0380	<0.005	-	56	10	78	1	3
189	190	0.28	GC0381	<0.005	-	19	4	81	1	3.1
190	191	0.27	GC0382	<0.005	<0.005	23	6	99	1	3.4
191	192	0.27	GC0383	<0.005	-	63	10	93	1	3.8
192	193	0.37	GC0384	<0.005	-	78	<3	102	2	2.6
193	194	0.25	GC0385	<0.005	-	220	6	82	1	1.7
194	195	0.35	GC0386	<0.005	-	108	9	90	1	12.9
195	196	0.31	GC0387	<0.005	-	264	6	77	2	5.5
196	197	0.30	GC0388	<0.005	-	59	7	76	1	3.1
197	198	0.26	GC0389	<0.005	-	7	9	81	1	3.1
198	199	0.40	GC0390	<0.005	-	79	6	87	2	2.7
199	200	0.35	GC0391	<0.005	-	54	5	80	1	2.7
200	201	0.37	GC0392	<0.005	<0.005	36	<3	72	1	9.6
201	202	0.32	GC0393	<0.005	-	32	5	77	1	4.6
202	203	0.24	GC0394	<0.005	-	116	14	62	1	2.9

3. Camera Surveys

Hole	Depth (m)	Azimuth (AMG)	Dip
LREDDH1	44	100.5	52
LREDDH1	74	98	52
LREDDH1	104	98.5	51
LREDDH1	134	100	50
LREDDH1	164	102	50
LREDDH1	194	103	50

4. Summary lithological log

Depth (m)	Lithology
0-6.5	Tertiary granule gravel and sand cemented by brown organic material and ?iron minerals.
6.5-8	Brown, gritty clay (?Tertiary). Progressive change from clay displaying relict bedrock texture at 8m to relatively fresh rock at 36m.
8-32.7	Fairly massive, fine grained mafic metamorphic rock comprising ferromagnesian minerals (?epidote, ?actinolite, ?chlorite) and feldspar (?albite) with minor disseminated sulphide. Mineral grains aligned in a foliation subparallel to the core axis. Veins of grey and white quartz at 14m, 15.5m. See samples G079, 080 in Appendix 4.
32.7-35	Mafic schist including material rich in disseminated pyrite. Quartz veins carrying pyrite and ?galena. Sample G081, Appendix 4.
35-40.8	Fairly massive mafic rock with thin interval of black pyritic schist at 37.5-35.8m. Sample G082, Appendix 4.
40.8-41.7	Mafic schist comprising mainly chlorite with subordinate feldspar.
41.7-43	Fairly massive mafic rock.
43-49.5	Interbands of schistose and fairly massive mafic material. Dark green chlorite (?and talc) schist with about 10% pyrite disseminated and in seams at 45.6m = G083, Appendix 4.
49.5-53	Fairly massive mafic rock. Fractures containing quartz, pyrite and hematite at 51.7m. Minor (<1%) disseminated pyrite present. Sample G084, Appendix 4.
53-67	Mafic schist. Boudinaged quartz, rhodochrosite, cream carbonate veins. White (?albitic) metamorphic segregation laminae locally abundant. Sample G085, Appendix 4.
67-82	Fairly massive mafic rock with relatively few boudins. Epidote veins present. Approximately 3-5% disseminated magnetite with subordinate pyrite at 80.2m. Quartz-rhodochrosite veins present. See samples G086, G087, Appendix 4.
82-85.3	Fairly massive and schistose, mafic interbands.
85.3-130.9	Schistose mafic rock with abundant, irregular, white (?albitic) metamorphic segregation laminae. Scattered quartz, rhodochrosite, chlorite (?talc) veins. Metamorphic foliation folded at 126.5m with axial surfaces (S2) parallel core axis. Samples G088, G089 in Appendix 4.
130.9-136	Fairly massive and schistose, mafic interbands.
136-138.7	Mostly relatively massive mafic material. White carbonate, quartz and rhodochrosite veinlets. Sample G091, Appendix 4.
138.7-140.8	Fairly massive and schistose, mafic interbands.
140.8-200	Mafic schist with abundant white (?albitic) metamorphic segregation laminae. Chalcopyrite on fractures and in patches through rock at 150.22m. Quartz, rhodochrosite veins present. Some carbonate in veins is orange. Samples G092-097 in Appendix 3.
	<u>Note:</u> Below 45m the metamorphic lamination (S1) is oblique by 30°-75° to the core axis whilst S2 is subparallel or slightly oblique to the axis.

254075

Goldstream – Titan Corinna Joint Venture
DRILL LOGS

Hole I.D.: **LREDDH2**
Tenement: EL43/94
Prospect: Lefroy Ridge East
AMG: 341150mE5382950mN
Azimuth: 282°AMG
Dip: 50°
Drill: LF70
Core: HQ to 36.4m
NQ to 203m
Contractor: Almac Drilling
Completed: 5/12/96

1. Geotechnical log

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
0.00	2.50		nil				
2.50	3.50	Crumbly	?100	0	>100	>100	-
3.50	6.50	Crumbly	?100	0	>100	>100	-
6.50	8.00	1250	83	24	>100	>100	-
8.00	9.50	1100	73	50	>100	>100	-
9.50	12.00	1710	68.4	32	>100	>100	-
12.00	15.50	2650	76	26	>100	>100	-
15.50	18.50	2590	86	5	>100	>100	-
18.50	21.50	2100	70	22	>50	>50	
No record - OK from 36.50 on.							
36.40	38.00	1720	108	94	11	10	1
38.00	41.00	3000	100	87	19	14	5
41.00	44.00	2550	85	63	30	24	6
44.00	47.00	3000	100	93	18	11	7
47.00	49.10	1510	72	44	25	17	8
49.10	52.20	3100	100	84	17	8	9
52.20	55.30	3030	98	90	10	7	3
55.30	58.40	3100	100	94	12	3	9
58.40	61.50	3100	100	96	12	7	5
61.50	64.60	3100	100	95	12	7	5
64.60	67.70	3070	99	96	15	6	9
67.70	70.80	2950	95	100	9	3	6
70.80	73.90	2910	94	82	17	3	14
73.90	77.00	3065	99	96	13	1	12
77.00	80.00	2985	99.5	97	13	5	8
80.00	83.00	2890	96	95	14	1	13
83.00	86.00	3165	105	93	19	12	7
86.00	89.00	2975	99	100	10	2	8
89.00	92.00	2972	99	91	24	12	12
92.00	95.00	3065	102	83	30	20	10
95.00	98.00	3000	100	60	>50+	>50	-
98.00	101.00	3220	107	84	33	27	6
101.00	104.00	2900	96	81	22	12	10
104.00	107.00	3090	103	77	25	13	12

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
107.00	110.00	2965	99	85	18	8	10
110.00	113.00	2995	99	95	16	6	10
113.00	116.00	3015	100	77	20	10	10
116.00	119.00	3040	101	90	22	8	14
119.00	122.00	3010	100	81	17	1	16
122.00	125.00	3005	100	94	6	1	5
125.00	128.00	2936	98	90	8	1	7
128.00	131.00	3035	101	97.6	10	1	9
131.00	134.00	3010	100	98	9	5	4
134.00	137.00	3030	101	95.5	11	5	6
137.00	140.00	3000	100	95	9	-	9
140.00	143.00	2990	99.6	97	12	1	11
143.00	146.00	3044	101	96	16	5	11
146.00	149.00	3060	102	92	13	3	10
149.00	152.00	3000?	100	72	31+	21+	10
152.00	155.00	3040	101	95	11	1	10
155.00	158.00	2975	99	98.6	11	3	8
158.00	161.00	2995	99.8	93	15	8	7
161.00	164.00	2995	99.8	89	19	12	7
164.00	167.00	3020	100.6	97.5	7	1	6
167.00	170.00	3000	100	97	10	1	9
170.00	173.00	2935	97	94.5	9	-	9
173.00	176.00	3020	101	97	9	-	9
176.00	179.00	3005	100	98	10	1	8
179.00	182.00	2995	99.8	87	14	7	7
182.00	185.00	2995	99.8	88	18	8	10
185.00	188.00	2910?	97	81	>25	>17	8
188.00	191.00	3000?	100	82	>26	>13	13
191.00	194.00	3005	100	83	12	2	10
194.00	197.00	2980	99	80	20	4	16
197.00	200.00	2950	98	72	29	13	16
200.00	203.00	3000?	100	73	29	19	10

2. Assay numbers = half core; magnetic susceptibility = average of top, middle, bottom of 1m intervals, measured on a round, unsplit core to 70m, measured on flat of split core after 70m.

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As
0	7	-	GC0001	0.02	-	420	6	101	2	5.8
0	7	-	GC0002	0.019	-	540	25	137	2	2.4
0	7	-	GC0003	0.053	-	490	21	138	2	1.9
0	7	-	GC0004	0.032	-	329	20	84	2	1.8
0	7	-	GC0005	0.028	-	385	20	127	2	2.3
0	7	-	GC0006	0.023	-	340	26	98	2	2.9
0	7	-	GC0007	<0.008	-	347	48	96	2	2.6
7	10	0.29	GC0008	<0.008	-	326	40	127	1	1.9
10	11	0.27	GC0009	0.008	-	302	49	134	1	2
11	12	0.26	GC0010	0.011	-	295	25	186	<1	5.8
12	13	0.23	GC0011	<0.008	-	268	21	155	1	2.6
13	14	2.52	GC0012	<0.008	<0.008	287	75	199	<1	2.1
14	15	9.89	GC0013	<0.008	-	311	130	204	1	1.5
15	16	1.91	GC0014	<0.008	-	365	26	171	<1	1.6
16	17	4.13	GC0015	0.011	-	393	17	242	<1	1.5
17	18	27.5	GC0016	<0.008	-	265	4	292	<1	0.8
18	19	18.6	GC0017	<0.008	-	100	<3	321	<1	0.8
19	20	11.63	GC0018	<0.008	-	134	<3	348	<1	0.8
20	21	4.38	GC0019	<0.008	-	159	<3	305	<1	0.7
21	22	9.97	GC0020	<0.008	-	126	10	312	<1	3.9
22	23	18.23	GC0021	<0.008	-	66	<3	306	<1	1.6
23	24	17.26	GC0022	<0.008	<0.008	460	18	369	1	1.1
24	25	21.80	GC0023	<0.008	-	430	<3	339	1	0.9
25	26	12.60	GC0024	<0.008	-	257	23	254	<1	1
26	27	24.40	GC0025	<0.008	-	222	11	271	<1	1.7
27	28	15.63	GC0026	<0.008	-	163	11	280	1	1.3
28	29	15.43	GC0027	<0.008	-	63	<3	272	<1	1.2
29	30	15.60	GC0028	0.008	-	145	12	288	<1	1.2
30	31	27.83	GC0029	0.01	-	395	16	343	<1	0.6
31	32	32.86	GC0030	<0.008	-	430	<3	336	<1	3.9
32	33	43.20	GC0031	0.032	-	750	12	290	1	1.7
33	34	37.80	GC0032	0.017	-	65	21	245	1	2.6
34	35	43.06	GC0033	0.018	-	139	3	280	<1	1.8
35	36	42.80	GC0034	<0.008	-	179	11	270	1	1.6
36	37	49.36	GC0035	0.012	-	194	<3	301	1	1.6
37	38	56.60	GC0036	0.027	-	470	3	249	1	1.3
38	39	58.26	GC0037	0.014	0.016	430	17	229	<1	1.3
39	40	44.00	GC0038	<0.008	-	289	16	220	1	1.5
40	41	40.20	GC0039	0.013	-	300	52	140	<1	1.4
41	42	41.00	GC0040	<0.008	-	377	83	163	<1	2.4
42	43	48.20	GC0041	0.018	-	430	160	132	1	1
43	44	44.90	GC0042	0.018	-	480	79	128	1	0.9
44	45	46.33	GC0043	<0.008	-	620	25	147	1	0.7
45	46	46.06	GC0044	0.008	-	405	20	204	1	<0.5
46	47	42.03	GC0045	<0.008	-	249	17	199	1	0.6
47	48	42.83	GC0046	<0.008	-	229	8	137	<1	3.8
48	49	48.53	GC0047	0.01	0.018	238	11	151	<1	1.3
49	50	39.46	GC0048	0.008	-	251	<3	204	<1	2.4

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As
50	51	50.73	GC0049	0.01	-	320	<3	184	1	2
51	52	51.46	GC0050	0.008	-	386	<3	184	1	1.9
52	53	55.10	GC0051	<0.008	-	313	<3	143	<1	1
53	54	51.2	GC0052	<0.008	-	345	<3	146	<1	1.1
54	55	40.7	GC0053	0.016	<0.008	391	6	193	1	1.9
55	56	36.76	GC0054	0.011	-	331	<3	189	<1	1.9
56	57	28.15	GC0055	0.012	-	302	<3	196	<1	2.3
57	58	45.9	GC0056	<0.008	-	450	<3	169	<1	<0.5
58	59	41.1	GC0057	<0.008	-	560	<3	163	<1	<0.5
59	60	41.2	GC0058	<0.008	-	1090	4	258	<1	0.9
60	61	-	GC0059	<0.008	-	1790	<3	269	1	0.9
61	62	44.86	GC0060	<0.008	-	1090	<3	248	<1	1
62	63	38.20	GC0061	<0.008	<0.008	1020	6	187	<1	<0.5
63	64	50.43	GC0062	<0.008	-	970	7	175	<1	<0.5
64	65	41.33	GC0063	<0.008	-	920	8	230	1	0.8
65	66	58.66	GC0064	<0.008	-	109	<3	224	1	0.9
66	67	51.20	GC0065	0.008	-	382	6	252	1	2.7
67	68	57.46	GC0066	<0.008	-	460	<3	192	<1	0.5
68	69	52.53	GC0067	0.024	-	373	<3	183	<1	<0.5
69	70	50.36	GC0068	<0.008	-	394	<3	230	<1	1.2
70	71	65.63	GC0069	0.031	-	175	12	247	1	1.2
71	72	69.96	GC0070	<0.008	-	252	6	243	<1	1.5
72	73	76.6	GC0071	<0.008	-	265	7	200	1	<0.5
73	74	67.7	GC0072	0.013	0.009	391	5	208	<1	<0.5
74	75	66.1	GC0073	<0.008	-	223	<3	267	1	1
75	76	71.53	GC0074	<0.008	-	336	10	310	1	1.4
76	77	80.86	GC0075	<0.008	-	410	<3	384	1	2.9
77	78	86.43	GC0076	<0.008	-	50	<3	316	<1	<0.5
78	79	57.66	GC0077	0.008	-	10	8	303	<1	0.7
79	80	25.3	GC0078	0.032	-	2	<3	138	<1	2.6
80	81	20.02	GC0079	0.023	-	6	5	75	<1	3.9
81	82	3.00	GC0080	<0.008	-	3	11	91	<1	2.3
82	83	23.23	GC0081	<0.008	-	2	<3	102	<1	1.1
83	84	18.77	GC0082	<0.008	-	2	<3	107	<1	1
84	85	16.10	GC0083	0.01	<0.008	5	4	210	<1	2.9
85	86	23.03	GC0084	<0.008	-	21	<3	299	<1	2.5
86	87	62.83	GC0085	0.012	-	14	5	280	<1	4
87	88	106.0	GC0086	<0.008	-	129	7	175	<1	0.9
88	89	99.8	GC0087	<0.008	0.008	55	<3	106	<1	<0.5
89	90	114.0	GC0088	0.036	-	25	<3	138	<1	1.8
90	91	114.06	GC0089	<0.008	-	45	<3	174	<1	2
91	92	89.9	GC0090	<0.008	-	570	<3	171	<1	1.5
92	93	102.36	GC0091	<0.008	-	213	<3	165	<1	<0.5
93	94	93.93	GC0092	<0.008	-	198	19	198	2	8.8
94	95	59.93	GC0093	<0.008	-	87	12	73	2	3.7
95	96	62.2	GC0094	<0.008	-	83	3	134	<1	3.7
96	97	25.59	GC0095	0.008	-	89	<3	107	<1	4.2
97	98	1.86	GC0096	<0.008	-	79	11	104	<1	4.4
98	99	23.49	GC0097	0.052	0.035	110	20	225	1	3.3
99	100	79.9	GC0098	<0.008	-	282	4	198	2	2.6
100	101	78.1	GC0099	<0.008	-	213	21	226	1	2.4
101	102	76.7	GC0100	<0.008	-	279	19	270	1	2.1

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As
102	103	46.5	GC0101	0.008	-	161	17	308	1	9
103	104	39.69	GC0102	<0.008	-	23	28	305	1	3.5
104	105	48.56	GC0103	<0.008	-	44	14	111	<1	2.8
105	106	26.00	GC0104	<0.008	-	42	23	141	<1	3.2
106	107	27.70	GC0105	0.022	0.015	47	13	87	<1	2.5
107	108	64.33	GC0106	<0.008	-	23	11	104	<1	0.5
108	109	64.50	GC0107	0.023	-	20	<3	76	1	1.9
109	110	76.33	GC0108	0.014	-	55	<3	99	2	2.3
110	111	97.76	GC0109	<0.008	-	188	11	189	1	1.9
111	112	78.86	GC0110	0.019	-	285	11	195	2	1.4
112	113	79.86	GC0111	0.01	-	225	6	205	1	10.6
113	114	65.1	GC0112	0.015	0.008	325	15	164	<1	3.2
114	115	64.83	GC0113	0.012	-	309	15	137	<1	1.9
115	116	45.13	GC0114	0.013	-	309	14	109	1	1.5
116	117	62.76	GC0115	0.027	-	239	<3	101	<1	1.3
117	118	59.76	GC0116	<0.008	-	218	12	99	1	1.4
118	119	63.76	GC0117	<0.008	-	295	18	139	1	1.2
119	120	54.43	GC0118	0.009	-	296	6	122	1	1
120	121	54.53	GC0119	0.018	-	335	13	116	1	0.8
121	122	61.63	GC0120	<0.008	-	345	17	121	2	0.7
122	123	60.13	GC0121	<0.008	-	203	7	154	1	5.3
123	124	63.93	GC0122	0.015	0.012	189	16	126	1	2.8
124	125	66.03	GC0123	<0.008	-	287	13	147	1	2.8
125	126	66.03	GC0124	<0.008	-	215	14	157	1	1.9
126	127	53.23	GC0125	<0.008	-	198	28	134	1	1.5
127	128	68.10	GC0126	<0.008	-	313	8	124	1	0.5
128	129	56.9	GC0127	0.012	-	218	11	139	<1	1.1
129	130	51.86	GC0128	<0.008	-	275	<3	121	1	1.1
130	131	43.53	GC0129	<0.008	-	211	<3	94	1	1.1
131	132	32.86	GC0130	0.054	-	144	9	102	1	0.6
132	133	22.4	GC0131	0.039	-	184	25	114	1	<0.5
133	134	33.3	GC0132	<0.008	-	117	12	106	<1	1.8
134	135	40.56	GC0133	0.016	-	83	<3	98	1	1.9
135	136	44.46	GC0134	0.02	-	188	16	112	2	1.2
136	137	48.13	GC0135	<0.008	-	265	<3	120	1	1
137	138	57.86	GC0136	0.013	0.008	155	15	93	<1	<0.5
138	139	39.93	GC0137	<0.008	-	225	30	118	1	<0.5
139	140	21.82	GC0138	<0.008	-	323	28	126	1	6
140	141	11.96	GC0139	<0.008	-	238	20	118	<1	0.9
141	142	12.83	GC0140	<0.008	-	271	113	216	<1	1.9
142	143	5.21	GC0141	<0.008	-	279	120	245	<1	2.2
143	144	8.53	GC0142	<0.008	-	299	54	150	1	1.8
144	145	1.54	GC0143	<0.008	-	216	304	910	1	2.3
145	146	2.82	GC0144	<0.008	-	237	27	140	1	1.9
146	147	2.89	GC0145	<0.008	-	276	20	122	1	2
147	148	3.27	GC0146	<0.008	-	255	31	142	<1	1.8
148	149	4.49	GC0147	<0.008	<0.008	1100	48	193	<1	2.1
149	150	6.74	GC0148	0.009	-	293	22	120	<1	1.9
150	151	7.47	GC0149	<0.008	-	410	22	155	<1	1.2
151	152	14.3	GC0150	<0.008	-	314	29	157	<1	1.3
152	153	19.93	GC0151	<0.008	-	560	31	167	1	1.3
153	154	19.56	GC0152	<0.008	-	292	109	262	1	1.1

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As
154	155	26.2	GC0153	<0.008	-	335	69	570	<1	1.5
155	156	18.48	GC0154	<0.008	-	397	52	450	<1	1.6
156	157	8.7	GC0155	0.015	<0.008	700	16	300	<1	1.1
157	158	2.67	GC0156	<0.008	-	215	24	241	1	1.8
158	159	6.24	GC0157	0.011	-	60	13	170	1	3.9
159	160	6.81	GC0158	<0.008	-	141	15	185	1	2
160	161	0.15	GC0159	<0.008	-	25	3	169	<1	1.4
161	162	3.26	GC0160	<0.008	-	37	<3	219	1	1.4
162	163	11.06	GC0161	<0.008	-	104	4	460	1	1.9
163	164	4.12	GC0162	<0.008	<0.008	142	4	330	1	1.5
164	165	6.32	GC0163	<0.008	-	241	22	382	1	1.7
165	166	2.56	GC0164	<0.008	-	146	15	420	1	2
166	167	0.54	GC0165	<0.008	-	137	31	500	1	1.7
167	168	0.14	GC0166	<0.008	-	349	63	540	1	1.5
168	169	0.116	GC0167	0.012	-	137	55	670	<1	4.8
169	170	0.12	GC0168	<0.008	-	151	51	630	<1	2.6
170	171	0.16	GC0169	<0.008	-	161	66	262	<1	2.8
171	172	0.196	GC0170	<0.008	-	209	51	337	<1	2.2
172	173	0.16	GC0171	0.012	-	165	33	349	<1	1.9
173	174	0.21	GC0172	<0.008	<0.008	164	21	321	1	1.9
174	175	1.6	GC0173	<0.008	-	133	34	265	1	2
175	176	0.25	GC0174	<0.008	-	171	47	228	1	2.9
176	177	0.17	GC0175	<0.008	-	160	20	213	1	2.6
177	178	0.17	GC0176	<0.008	-	110	48	132	<1	2.2
178	179	0.126	GC0177	<0.008	-	82	<3	222	2	4
179	180	0.12	GC0178	<0.008	-	125	19	226	1	2.1
180	181	0.11	GC0179	0.167	-	77	27	219	<1	2.6
181	182	0.15	GC0180	<0.008	-	60	54	201	<1	2.8
182	183	0.15	GC0181	<0.008	-	218	31	251	1	2.1
183	184	0.13	GC0182	<0.008	-	162	39	224	<1	3.5
184	185	3.11	GC0183	<0.008	-	94	42	211	1	3.3
185	186	16.06	GC0184	<0.008	-	139	27	256	2	7.6
186	187	4.61	GC0185	<0.008	-	108	30	249	1	4.2
187	188	0.33	GC0186	0.028	-	167	1680	239	<1	3.4
188	189	0.30	GC0187	0.034	-	126	124	200	1	4.2
189	190	0.19	GC0188	<0.008	-	125	23	162	1	3.7
190	191	0.24	GC0189	<0.008	-	144	29	161	<1	3.2
191	192	0.20	GC0190	<0.008	-	119	59	169	1	3.3
192	193	0.17	GC0191	<0.008	-	142	22	180	<1	3.1
193	194	0.23	GC0192	0.008	-	109	4	180	1	2.8
194	195	0.21	GC0193	<0.008	-	150	51	250	<1	6.8
195	196	0.2	GC0194	<0.008	-	130	21	248	<1	2.9
196	197	0.313	GC0195	<0.008	-	132	43	224	1	2.2
197	198	0.33	GC0196	<0.008	-	196	26	237	1	2.2
198	199	0.27	GC0197	<0.008	<0.008	190	122	261	1	2.1
199	200	0.86	GC0198	<0.008	-	225	77	338	1	1.8
200	201	0.55	GC0199	0.036	-	246	17	208	1	1.8
201	202	0.51	GC0200	0.019	-	182	4	174	1	1.8
202	203	33.64	GC0201	0.015	0.013	201	12	178	2	1.8

3. Camera Surveys

Hole	Depth (m)	Azimuth (AMG)	Dip
LREDDH2	44	284	51
LREDDH2	74	291	51
LREDDH2	104	291	50
LREDDH2	134	293	50
LREDDH2	164	293	50
LREDDH2	194	293	49.5

Goldstream – Titan Corinna Joint Venture
DRILL LOGS

Hole I.D.: **LSDDH1**
Tenement: EL43/94
Prospect: Lucy Spur
AMG: 347110mE5384600mN
Azimuth: 272°AMG
Dip: 45°
Drill: LF70
Core: HQ to 72m
NQ to 200m
Contractor: Almac Drilling
Completed: 3/3/97

1. Geotechnical log

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
00	2.00						
2.00	5.00	2600	86	NIL	100+	100+	-
5.00	8.00	600	20	NIL	100+	100+	-
8.00	11.00	250	8	NIL	100+	100+	-
11.00	14.00	1200	40	NIL	100+	100+	-
14.00	17.00	2570	86	NIL	100+	100+	-
17.00	20.00	2400	80	NIL	100+	100+	-
20.00	23.00	2100	70	NIL	100+	100+	-
23.00	26.00	2070	69	NIL	100+	100+	-
26.00	29.00	2500	83	NIL	100+	100+	-
29.00	32.00	2450	82	NIL	100+	100+	-
32.00	35.00	2770	92	NIL	100+	100+	-
35.00	38.00	1700	57	NIL	100+	100+	-
38.00	41.00	2150	72	NIL	100+	100+	-
41.00	44.00	2300	75	NIL	100+	100+	-
44.00	47.00	3000?	100	NIL	100+	100+	-
47.00	50.00	3000?	100	20	100+	100+	-
50.00	53.00	3000?	100	37	100+	100+	-
53.00	56.00	3000?	100	40	75+	75+	-
56.00	59.00	2800	93	48	40+	40+	-
59.00	62.00	2930	98	53	50+	35+	15
62.00	65.00	3000	100	25	50+	50+	-
65.00	68.00	3000	100	22	75+	75+	-
68.00	71.00	3000	100	30	75+	25+	50
71.00	72.0	1000	100	13	40+	7+	33
72.0	74.0	2000	100	43	32	3	29
74.0	80.0	6000	100	56	76	4	72
80.0	83.0	2600	87	43	35	3	32
83.0	86.0	3000	100	63	52	3	49
86.0	88.0	1800	90	42	>25	1	>24
88.0	89.0	1000	100	85	10	2	8
89.0	92.0	2990	99	70	23	1	22
92.0	93.0	1000	100	47	13	2	11
93.0	95.0	2000	100	63	30	3	27

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
95.0	98.0	3000	100	66	26	2	24
98.0	101.0	3000	100	57	28	2	26
101.00	104.00	2960	99	92	19	-	19
104.00	107.00	3000	100	75	35	11	26
107.00	110.0	2990	99	73	35	15	20
110.00	113.00	2950	98	69	32	17	15
113.00	116.00	2860	95	65	50+	26+	24
116.00	119.00	3100	103	86	22	4	18
119.00	122.00	3000	100	90	16	4	12
122.00	125.00	3000	100	98	21	6	15
125.00	128.00	2980	99	90	15	3	12
128.00	131.00	2980	99	84	26+	9+	17
131.00	137.00	6100	101	90	34	4	30
137.00	140.00	2950	98	68	26	2	24
140.00	143.00	3050	102	92	21	3	18
143.00	146.00	3000	100	78	30	3	27
146.00	149.00	3050	101	98	15	3	12
149.00	152.00	3000	100	93	20	3	17
152.00	155.00	2950	98	93	12	2	10
155.00	157.90	2880	99	99	14	3	11
157.90	161.00	3100	100	96	18	1	17
161.00	164.00	3000	100	87	17	4	13
164.00	167.00	3050	102	97	23	7	16
167.00	170.00	3020	101	88	16	5	11
170.00	173.00	2940	98	96	12	3	9
173.00	176.00	2980	99	95	14	6	8
176.00	179.00	2970	99	88	20	4	16
179.00	182.00	3040	101	68	33	17	16
182.00	185.00	2975	99	87	22	7	15
185.00	188.00	3000	100	95	10	2	18
188.00	191.00	2970	99	81	29	8	21
191.00	194.00	2975	99	87	24	9	15
194.00	197.00	2900	97	55	50+	41+	9
197.00	200.00	3020	101	88	25	11	14

2. Assay numbers = half core; magnetic susceptibility = average of top, middle, bottom of 1m intervals, measured on flat of split core.

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As
2.00	3.00	.15	GC0395	<0.005	-	10	<3	27	1		45.7
3.00	4.00	.136	GC0396	<0.005	-	5	<3	26	3		43.8
4	5	.12	GC0397	<0.005	-	3	<3	30	3		23.7
5	6.5	.125	GC0398	<0.005	<0.005	7	<3	24	2		24.4
6.5	7	-									
7	8	-									
8	9	-	GC0399	<0.005	-	10	<3	29	2		12.8
9	10	-	GC0399	<0.005	-	10	<3	29	2		12.8
10	11	-	GC0399	<0.005	-	10	<3	29	2		12.8
11	12	.076	GC0400	<0.005	-	11	<3	29	2		48.6
12	13	-	GC0401	0.013	-	20	<3	31	2		12.4
13	14	-	GC0402	<0.005	-	23	<3	36	2		7.2
14	15	.10	GC0403	<0.005	-	11	<3	37	1		5.4
15	16	.146	GC0404	<0.005	-	13	<3	47	1		4.4
16	17	.14	GC0405	<0.005	-	10	<3	45	1		3.3
17	18	.13	GC0406	<0.005	-	11	<3	37	2		5.4
18	19	.156	GC0407	<0.005	<0.005	10	<3	21	1		16.5
19	20	.146	GC0408	<0.005	-	5	<3	20	1		3.2
20	21	.20	GC0409	<0.005	-	10	<3	20	1		4.1
21	22	.14	GC0410	<0.005	<0.005	13	3	24	1		2.5
22	23	.14	GC0411	<0.005	-	12	<3	25	1		2.5
23	24	.149	GC0412	<0.005	-	8	4	22	1		5.6
24	25	.21	GC0413	<0.008	-	9	<3	21	<1	-	26
25	26	.196	GC0414	<0.008	-	12	<3	26	<1	-	10.4
26	27.5	.246	GC0415	<0.008	-	11	<3	25	<1	-	7.5
27	28	.166	GC0416	<0.008	-	10	<3	16	<1	-	6.9
28	29	.2	GC0417	<0.008	-	7	<3	24	<1	-	8.7
29	30	.166	GC0418	<0.008	-	5	<3	38	<1	-	5.5
30	31	.12	GC0419	<0.008	-	6	<3	54	<1	-	10.8
31	32	.156	GC0420	<0.008	-	4	<3	26	<1	-	4.4
32	33	.176	GC0421	<0.008	-	5	<3	46	<1	-	7.7
33	34	.19	GC0422	<0.008	-	3	5	47	<1	-	14.6
34	35	.14	GC0423	<0.008	-	2	<3	75	<1	-	4.8
35	36	.15	GC0424	<0.008	<0.008	2	<3	60	<1	-	2.8
36	37	0.17	GC0425	<0.008	-	3	3	44	<1	-	2.1
37	38	.176	GC0426	<0.008	-	4	<3	30	<1	-	1.9
38	39	.16	GC0427	<0.008	-	3	<3	44	<1	-	2.8
39	40	.15	GC0428	<0.008	-	3	<3	38	<1	-	3
40	41	.24	GC0429	<0.008	-	3	<3	38	<1	-	3.9
41	42	.26	GC0430	<0.008	-	3	<3	51	<1	-	5.1
42	43	.29	GC0431	<0.008	-	2	<3	35	1	-	4.9
43	44	.176	GC0432	<0.008	-	2	<3	52	<1	-	14.2
44	45	.21	GC0433	<0.008	-	3	<3	51	<1	-	4.3
45	46	.24	GC0434	<0.008	<0.008	2	<3	33	<1	-	3.8
46	47	.286	GC0435	<0.008	-	4	<3	29	<1	-	3.3
47	48	.24	GC0436	<0.008	-	2	<3	36	<1	-	3.3
48	49	.286	GC0437	<0.008	-	3	<3	19	<1	-	4.3
49	50	.29	GC0438	<0.008	-	2	<3	27	<1	-	2.8
50	51	.28	GC0439	<0.008	-	2	<3	16	<1	-	2.8

51	52	.21	GC0440	<0.008	-	2	<3	18	<1	-	2.7
52	53	.20	GC0441	<0.008	-	2	<3	15	<1	-	3.2
53	54	.20	GC0442	<0.008	-	5	<3	9	<1	-	12.9
54	55	.41	GC0443	0.01	-	5	<3	24	<1	-	8.2
55	56	.35	GC0444	0.012	-	5	<3	28	<1	-	6.7
56	57	.20	GC0445	0.018	-	5	<3	18	<1	-	1.9
57	58	.08	GC0446	<0.008	-	6	<3	8	<1	-	2.2
58	59	.16	GC0447	0.02	-	10	<3	10	<1	-	1.5
59	60	.29	GC0448	<0.008	-	5	<3	14	<1	-	3.7
60	61	.12	GC0449	<0.008	<0.008	9	<3	26	<1	-	1.8
61	62	.16	GC0450	<0.008	-	8	<3	12	<1	-	1.4
62	63	.25	GC0451	<0.008	-	4	<3	13	<1	-	2.2
63	64	.24	GC0452	<0.008	-	4	<3	21	<1	-	11.8
64	65	.19	GC0453	<0.008	-	5	<3	14	<1	-	3.1
65	66	.19	GC0454	0.037	-	3	<3	43	<1	-	3.4
66	67	.16	GC0455	<0.008	-	4	<3	15	<1	-	2.7
67	68	.26	GC0456	<0.008	-	7	<3	12	<1	-	3.6
68	69	.26	GC0457	<0.008	-	4	<3	11	<1	-	2.4
69	70	.25	GC0458	<0.008	-	3	<3	11	<1	-	9
70	71	.37	GC0459	<0.008	<0.008	3	<3	8	<1	-	5.1
71	72	.22	GC0460	<0.008	-	3	<3	9	<1	-	2.9
72	73	.20	GC0461	<0.008	-	3	<3	8	<1	-	2.7
73	74	.22	GC0462	<0.008	-	4	3	10	<1	-	3.4
74	75	.30	GC0463	<0.008	-	3	5	10	<1	-	3.8
75	76	.29	GC0464	<0.008	-	2	7	12	<1	-	2.7
76	77	.32	GC0465	<0.008	-	3	6	8	<1	-	3.6
77	78	.29	GC0466	<0.008	-	3	<3	8	<1	-	2.5
78	79	.21	GC0467	<0.008	-	5	4	5	<1	-	1.9
79	80	.17	GC0468	<0.008	-	4	6	5	<1	-	11.5
80	81	.19	GC0469	<0.008	-	-	3	10	<1	-	4.9
81	82	.16	GC0470	<0.008	-	3	7	5	<1	-	2.6
82	83	.14	GC0471	<0.008	-	3	4	6	<1	-	2.4
83	84	.31	GC0472	<0.008	-	4	4	6	<1	-	5.3
84	85	.25	GC0473	<0.008	-	3	11	7	<1	-	2.9
85	86	.19	GC0474	<0.008	<0.008	2	6	5	<1	-	1.6
86	87	.146	GC0475	<0.008	-	4	3	10	<1	-	15.9
87	88	.196	GC0476	<0.008	-	3	3	9	<1	-	8.3
88	89	.27	GC0477	<0.008	-	2	9	8	<1	-	2.7
89	90	.21	GC0478	<0.008	-	4	5	9	<1	-	<0.5
90	91	.69	GC0479	<0.008	-	77	4	11	<1	-	9.6
91	92	10.75	GC0480	<0.008	-	142	<3	14	<1	-	8.5
92	93	11.73	GC0481	<0.008	-	142	<3	20	<1	-	2.5
93	94	.28	GC0482	<0.008	-	5	<3	5	<1	-	<0.5
94	95	2.22	GC0483	<0.008	-	4	7	7	<1	-	<0.5
95	96	2.27	GC0484	<0.008	<0.008	5	3	9	<1	-	14.3
96	97	4.67	GC0485	<0.008	-	6	<3	24	<1	-	20
97	98	1.95	GC0486	<0.008	-	20	9	19	<1	-	3.2
98	99	2.99	GC0487	<0.008	-	6	<3	13	<1	-	2.7
99	100	.22	GC0488	<0.008	-	209	6	9	<1	-	1.9
100	101	.22	GC0489	<0.008	-	4	<3	6	<1	-	<0.5
101	102	.25	GC0490	0.05	-	4	<3	5	<1	-	<0.5
102	103	.166	GC0491	<0.008	-	3	<3	5	<1	-	<0.5
103	104	.336	GC0492	<0.008	-	2	5	11	<1	-	<0.5
104	105	.36	GC0493	<0.008	-	3	5	6	<1	-	<0.5
105	106	.27	GC0494	<0.008	-	3	<3	8	<1	-	11.4
106	107	.45	GC0495	<0.008	-	6	4	16	<1	-	6.6

107	108	.636	GC0496	<0.008	-	5	<3	14	<1	-	1.8
108	109	.536	GC0497	<0.008	-	8	9	11	<1	-	1.6
109	110	.54	GC0498	<0.008	-	7	5	9	<1	-	<0.5
110	111	1.53	GC0499	<0.008	-	4	4	8	<1	-	0.5
111	112	.236	GC0500	<0.008	-	5	7	25	<1	-	1.8
112	113	.21	GC0501	<0.008	-	7	9	7	<1	-	0.8
113	114	.196	GC0502	<0.008	-	4	7	8	<1	-	<0.5
114	115	.26	GC0503	<0.008	-	4	<3	9	<1	-	0.9
115	116	.26	GC0504	<0.008	-	5	<3	9	<1	-	2.6
116	117	.256	GC0505	<0.008	-	11	<3	9	<1	-	1.2
117	118	1.48	GC0506	<0.008	-	8	<3	8	<1	-	0.7
118	119	2.41	GC0507	<0.008	-	15	<3	16	<1	-	2
119	120	.29	GC0508	<0.008	-	8	<3	11	<1	-	1.4
120	121	.4	GC0509	<0.008	-	6	<3	7	<1	-	<0.5
121	122	.92	GC0510	<0.008	-	4	5	12	<1	-	15.1
122	123	2.07	GC0511	<0.008	-	67	<3	10	<1	-	3.5
123	124	2.10	GC0512	<0.008	-	13	<3	9	<1	-	4.2
124	125	.37	GC0513	<0.008	-	238	<3	7	<1	-	5.5
125	126	.23	GC0514	<0.008	-	4	<3	6	<1	-	0.5
126	127	.22	GC0515	0.039	-	2	<3	6	<1	-	<0.5
127	128	.26	GC0516	0.016	-	3	<3	3	<1	-	<0.5
128	129	.28	GC0517	0.009	-	3	<3	5	<1	-	1.1
129	130	.27	GC0518	<0.008	-	3	<3	4	<1	-	1.3
130	131	.15	GC0519	<0.008	-	3	4	4	<1	-	<0.5
131	132	.25	GC0812	0.02	0.01	6	<3	5	<1	60	-
132	133	.30	GC0813	0.01	-	4	<3	6	<1	57	-
133	134	.29	GC0814	<0.01	-	3	<3	5	<1	<5	16
134	135	.29	GC0815	0.01	-	4	<3	7	<1	<5	6
135	136	.38	GC0816	0.02	-	3	<3	5	<1	<5	8
136	137	.48	GC0817	0.01	<0.01	3	<3	6	<1	<5	5
137	138	.33	GC0818	<0.01	-	6	<3	4	<1	70	-
138	139	.38	GC0819	<0.01	-	3	3	5	<1	<5	11
139	140	.36	GC0820	0.01	-	3	<3	4	<1	<5	4
140	141	.24	GC0821	0.01	-	6	<3	5	<1	59	-
141	142	.31	GC0822	0.01	-	4	<3	5	<1	60	-
142	143	0.28	GC0823	0.02	0.02	5	8	4	<1	<5	7
143	144	0.32	GC0824	0.01	-	5	<3	4	<1	57	-
144	145	0.30	GC0825	0.01	-	70	3	5	<1	<5	13
145	146	0.26	GC0826	<0.01	-	5	<3	2	<1	<5	<0.5
146	147	0.31	GC0827	0.01	<0.01	7	<3	3	<1	65	-
147	148	0.29	GC0828	0.02	-	<2	<3	2	<1	65	-
148	149	0.42	GC0829	0.01	-	4	4	3	<1	<5	4
149	150	0.39	GC0830	0.02	-	4	<3	4	<1	57	-
150	151	0.43	GC0831	0.01	-	<2	3	4	<1	<5	3
151	152	0.44	GC0832	<0.01	-	4	<3	4	<1	<5	6
152	153	0.41	GC0833	0.01	-	3	<3	6	<1	65	-
153	154	0.72	GC0834	0.02	-	<2	<3	3	<1	<5	<0.5
154	155	0.31	GC0835	0.01	-	<2	3	4	<1	81	-
155	156	0.36	GC0836	0.02	-	3	5	6	<1	<5	<0.5
156	157	0.29	GC0837	0.03	-	2	3	11	<1	66	-
157	158	0.34	GC0838	0.04	-	<2	3	9	<1	<5	<0.5
158	159	0.46	GC0839	0.02	-	<2	3	31	<1	<5	8
159	160	0.42	GC0840	0.09	0.05	<2	<3	78	<1	56	-
160	161	0.39	GC0841	0.08	0.04	<2	<3	6	<1	64	-
161	162	0.37	GC0842	0.04	-	<2	<3	3	<1	65	-
162	163	0.29	GC0843	0.02	-	<2	<3	5	<1	<5	3

163	164	0.18	GC0844	0.03	-	4	<3	2	<1	64	-
164	165	0.21	GC0845	0.01	0.01	3	<3	4	<1	<5	7
165	166	0.21	GC0846	<0.01	-	5	3	3	<1	82	-
166	167	0.33	GC0847	0.01	-	5	<3	2	<1	73	-
167	168	0.27	GC0848	<0.01	-	<2	<3	2	<1	64	-
168	169	0.29	GC0849	<0.01	-	3	<3	2	<1	<5	3
169	170	0.23	GC0850	<0.01	-	4	4	3	<1	<5	4
170	171	0.23	GC0851	<0.01	-	<2	<3	2	<1	<5	6
171	172	0.28	GC0852	<0.01	-	3	<3	5	<1	58	-
172	173	0.32	GC0853	<0.01	-	<2	<3	4	<1	<5	2
173	174	0.39	GC0854	<0.01	0.05	2	3	5	<1	51	-
174	175	0.39	GC0855	<0.01	-	5	3	11	<1	57	-
175	176	0.34	GC0856	<0.01	-	3	4	9	<1	<5	<0.5
176	177	0.32	GC0857	<0.01	-	<2	<3	4	<1	<5	7
177	178	0.21	GC0858	<0.01	-	3	4	5	<1	<5	3
178	179	0.22	GC0859	<0.01	-	5	<3	6	<1	<5	<0.5
179	180	0.25	GC0860	0.01	-	<2	<3	4	<1	<5	<0.5
180	181	0.38	GC0861	<0.01	<0.01	4	<3	4	<1	<5	4
181	182	0.30	GC0862	<0.01	-	3	<3	3	<1	<5	2
182	183	0.22	GC0863	<0.01	-	<2	3	4	<1	<5	4
183	184	0.22	GC0864	<0.01	-	4	4	4	<1	<5	5
184	185	0.35	GC0865	<0.01	-	5	22	28	<1	<5	6
185	186	0.29	GC0866	<0.01	-	5	<3	13	<1	<5	7
186	187	0.32	GC0867	<0.01	-	3	<3	<2	<1	<5	2
187	188	0.28	GC0868	<0.01	-	3	<3	11	<1	<5	3
188	189	0.25	GC0869	<0.01	-	17	<3	<2	<1	<5	2
189	190	0.34	GC0870	0.02	-	3	<3	<2	<1	50	-
190	191	1.15	GC0871	<0.01	-	7	17	<2	<1	<5	1
191	192	0.68	GC0872	<0.01	-	740	<3	<2	<1	60	-
192	193	0.54	GC0873	<0.01	-	213	<3	<2	<1	50	-
193	194	0.24	GC0874	<0.01	-	5	<3	5	<1	<5	6
194	195	0.28	GC0875	<0.01	-	5	<3	<2	<1	<5	5
195	196	0.20	GC0876	<0.01	-	<2	<3	<2	<1	<5	6
196	197	0.30	GC0877	<0.01	-	2	<3	2	<1	<5	5
197	198	0.31	GC0878	<0.01	-	4	<3	21	<1	79	-
198	199	0.32	GC0879	<0.01	-	2	<3	4	<1	<5	5
199	200	0.25	GC0880	<0.01	-	3	<3	19	<1	<5	5

3. Camera Surveys

Hole	Depth (m)	Azimuth (AMG)	Dip
LSDDH1	30	269	47
LSDDH1	60	270	48.5
LSDDH1	90	272	47.5
LSDDH1	120	275	45
LSDDH1	160	272	44
LSDDH1	200	272	43

254089

Goldstream – Titan Corinna Joint Venture
DRILL LOGS

Hole I.D.:	**LSDDH2**
Tenement:	EL43/94
Prospect:	Lucy Spur
AMG:	347110mE5384600mN
Azimuth:	292°AMG
Dip:	45°
Drill:	LF70
Core:	HQ to 59.5m
	NQ to 300m
Contractor:	Almac Drilling
Completed:	27/2/97

1. Geotechnical log

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
2.0	3.5	0	0	0	-	-	-
3.5	5.0	550	37	0	>100	>50	>50
5.0	6.5	525	35	0	>100	>50	>50
6.5	8.0	475	32	0	>100	>50	>50
8.0	9.5	370	25	0	>50	>25	>25
9.5	11.0	1200	80	13	>100	>50	>50
11.0	12.5	950	63	15	>50	5	>45
12.5	14.0	1400	93	30	42	5	37
14.0	15.5	1150	77	30	>50	4	>46
15.5	17.0	750	50	0	>25	2	>23
17.0	18.5	850	57	33	>25	3	>22
18.5	20.0	850	57	17	20	1	19
20.0	21.5	850	57	0	24	2	22
21.5	23.0	1050	70	12	>50	4	>46
23.0	24.5	1250	83	0	>50	3	>47
24.5	26.0	900	60	0	>100	7	>93
26.0	27.5	100	7	0	8	0	8
27.5	29.0	0	0	0	-	-	-
29.0	30.5	820	55	0	5	-	5
30.5	32.0	320	21	56	2	-	2
32.0	33.5	1230	82	0	14	-	14
33.5	35.0	1450	96	0	24	2	22
35.0	36.5	1200	80	8	29	2	27
36.5	38.0	1100	73	10	18	2	16
38.0	39.5	730	48	0	12	1	11
39.5	41.0	700	47	0	14	1	13
41.0	42.5	0	0	0	-	-	-
42.5	44.0	800	53	26	10	-	10
44.0	45.5	1100	73	32	12	-	12
45.5	47.0	500	33	0	0	-	0
47.0	48.5	1100	73	15	8	8	0
48.5	50.0	500	33	0	-	-	-
50.0	51.5	1050	70	0	12	2	10
51.5	53.0	1400	93	10	41	3	38

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
53.0	54.5	1200	80	19	40	-	40
54.5	56.0	1500	100	29	66	5	61
56.0	59.0	500	100	0	100+	6	
59.0	59.5	400	80	0	22	3	19
59.5	60.0	430	86	0	30	4	26
60.0	62.0	1950	97.5	7.0	73	13	60
62.0	65.0	2850	95	8.5	105	29	76
65.0	68.0	3000	100	35	78	25	53
68.0	71.0	2940	98	41	80	7	73
71.0	74.0	2980	99	19	86	7	79
74.0	74.8	500	62.5	0	100+	0	100+
74.8	77.0	0	0	0	0	0	0
77.0	80.0	2290	76	12	100+	4	
80.0	83.0	3000	100	7	83	16	67
83.0	86.0	2945	98	36	53	8	45
86.0	89.0	2970	99	16	65	8	57
89.0	92.0	2850	95	42	58	11	47
92.0	95.0	2990	99	78	25	3	22
95.0	98.0	3000	100	87	22	1	21
98.0	101.0	3000	100	66	34	5	29
101.0	10430	2865	95	88	14	0	14
104.0	107.0	3370	100+	77	26	6	20
107.0	110.0	2930	98	81	25	7	18
110.0	113.0	2950	98	71	32	3	29
113.0	116.0	2990	99	88	20	1	19
116.0	119.0	2900	96	85	25	7	18
119.0	112.0	3000	100	91	18	4	14
122.0	125.0	3075	100+	77	30	10	20
125.0	128.0	2855	95	72	27	7	20
128.0	131.0	3105	100+	71	35	9	26
131.0	134.0	3100	100+	81	32	8	24
134.0	137.0	2975	99	81	20	5	15
137.0	140.0	2980	99	74	26	7	19
140.0	143.0	2990	99	92	19	3	16
143.0	145.50	2540	100+	84	17	5	12
145.50	148.60	3090	100+	89	21	3	18
148.60	151.70	2900	97	90	12	1	11
151.70	154.80	3220	100+	75	22	2	20
154.80	157.90	3030	98	90	13	1	12
157.90	161.0	3100	100	87	16	3	13
161.0	162.40	1455	100+	97	7	1	6
162.40	165.20	2780	99	82	17	1	16
165.20	167.0	1745	97	97	9	3	6
167.0	170.0	3000	100	79	25	4	21
170.0	173.0	2950	98	85	19	4	15
173.0	176.0	3025	100+	92	14	1	13
176.0	179.0	2940	98	92	17	4	13
179.0	182.0	3105	100+	94	14	1	13
182.0	185.0	2965	99	92	13	1	12
185.0	188.0	3000	100	87	21	5	16
188.0	191.0	3070	100+	93	23	3	20
191.0	194.0	2915	97	90	16	2	14

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
194.0	197.0	2935	98	88	18	1	17
197.0	200.0	3060	100+	89	20	5	15
200.0	203.0	2850	95	77	29	4	25
203.0	206.0	3000	100	75	25	3	22
206.0	209.0	2900	97	87	17	1	16
209.0	212.0	2850	95	95	14	1	13
212.0	215.0	2900	96	69	38	5	33
215.0	218.0	3000	100	83	29	4	25
218.0	221.0	3020	100+	85	22	3	19
221.0	224.0	3000	100	71	25	3	22
224.0	227.0	2775	92	71	34	5	29
227.0	230.0	2810	94	85	27	12	15
230.0	233.0	2905	97	83	23	2	21
233.0	236.0	3000	100	88	27	7	20
236.0	239.0	3020	100+	96	18	2	16
239.0	242.0	2990	99	87	19	1	18
242.0	245.0	3000	100	86	18	1	17
245.0	248.0	3035	100+	91	20	2	18
248.0	251.0	2775	92	74	22	1	21
251.0	254.0	3100	100+	88	17	3	14
254.0	257.0	3035	100+	97	14	1	13
257.0	260.0	3025	100+	83	21	4	17
260.0	263.0	3050	100	93	17	2	15
263.0	266.0	2930	98	94	14	1	13
266.0	269.0	3130	100+	96	17	2	15
269.0	272.0	3010	100+	82	23	0	23
272.0	275.0	3100	100+	87	20	6	15
275.0	278.0	2960	99	92	16	2	14
278.0	281.0	3000	100	97	12	2	10
281.0	284.0	3000	100	84	18	1	17
284.0	287.0	3000	100	75	32	3	29
287.0	290.0	3000	100	96	15	3	12
290.0	293.0	3000	100	84	22	3	19
293.0	296.0	2900	97	91	16	1	15
296.0	299.0	3055	102	94	20	8	12
299.0	300.0	1070	107	85	11	7	4

2. Assay numbers = half core; magnetic susceptibility = average of top, middle, botto of 1m intervals, measured on flat of split core.

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As
3.5	4		GC0520	<0.01	-	6	<3	22	2	-	10.2
4	5		GC0521	<0.01	-	6	<3	27	1	-	7.6
5	6		GC0522	<0.01	-	5	3	26	1	-	8.8
6	7	0.21	GC0523	<0.01	-	6	<3	22	1	60	-
7	8	0.21	GC0524	<0.01	-	16	<3	30	1	-	23.2
8	9	0.17	GC0525	<0.01	-	11	<3	27	1	-	9.7
9	10	-	GC0526	<0.01	-	15	<3	35	1	-	14.1
10	11	0.22	GC0527	0.01	-	19	<3	36	1	-	7.3
11	12	0.24	GC0528	<0.01	-	24	<3	33	1	-	5.2
12	13	0.17	GC0529	<0.01	-	31	<3	39	1	-	6.5
13	14	0.26	GC0530	0.05	0.04	5	<3	28	1	-	5.4
14	15	0.22	GC0531	<0.01	<0.01	9	<3	35	1	-	6.1
15	16	0.22	GC0532	<0.01	-	3	<3	19	1	-	6
16	17	0.19	GC0533	<0.01	-	3	<3	23	1	-	47.4
17	18	0.25	GC0534	<0.01	<0.01	10	<3	28	2	-	14.8
18	19	0.20	GC0535	<0.01	-	6	<3	27	1	-	9.5
19	20	0.18	GC0536	<0.01	-	23	<3	33	2	-	8.2
20	21	0.17	GC0537	<0.01	-	24	<3	34	1	-	6.2
21	22	0.23	GC0538	<0.01	-	29	<3	31	2	-	6.1
22	23	0.14	GC0539	<0.01	-	31	<3	30	1	-	7.1
23	24	0.18	GC0540	<0.01	-	53	<3	31	2	-	13.3
24	25	0.24	GC0541	<0.01	<0.01	43	<3	24	1	-	7.1
25	26		GC0542	0.01	-	49	<3	21	2	-	8.7
26	27.5		GC0543	<0.01	-	32	<3	28	1	80	-
27.5	28										
28	29										
29	30	-	GC0544	<0.01	-	33	<3	31	2	-	13.4
30	31	-	GC0545	<0.01	-	29	<3	64	2	-	10.6
31	32	-	GC0546	<0.01	-	27	3	69	1	-	9.6
32	33	-	GC0547	0.01	-	17	<3	26	1	-	8.1
33	34	-	GC0548	<0.01	<0.01	9	<3	23	1	-	6.8
34	35	0.21	GC0549	0.01	-	7	<3	16	1	-	6.8
35	36	0.23	GC0550	<0.01	-	12	<3	13	1	-	4
36	37	0.17	GC0551	<0.01	-	3	<3	15	1	-	4.9
37	38	0.18	GC0552	<0.01	-	3	<3	12	1	-	4.2
38	39	-	GC0553	0.01	-	2	<3	52	1	-	25.2
39	40	0.21	GC0554	<0.01	-	4	<3	34	<1	-	6
40	41	0.15	GC0555	<0.01	-	6	<3	46	1	-	4.9
41	42	-									
42	42.5										
42.5	43	0.15	GC0556	<0.01	<0.01	5	<3	74	1	-	5
43	44	0.11	GC0557	<0.01	-	8	<3	51	<1	-	2.3
44	45	0.07	GC0558	<0.01	-	12	<3	21	<1	-	<0.5
45	46	0.01	GC0559	<0.01	-	7	<3	29	<1	-	<0.5
46	47	-	GC0560	<0.01	-	4	<3	33	<1	-	<0.5
47	48	0.04	GC0561	<0.01	-	5	<3	22	<1	-	<0.5
48	49	-	GC0562	<0.01	-	6	<3	27	<1	-	<0.5
49	50	0.34	GC0563	<0.01	-	3	<3	17	<1	-	39.7
50	51	0.03	GC0564	<0.01	-	8	<3	11	<1	-	1.8

51	52	0.03	GC0565	<0.01	-	7	<3	20	<1	-	9.2
52	53	0.22	GC0566	<0.01	<0.01	5	<3	20	1	-	6.3
53	54	0.27	GC0567	<0.01	-	177	<3	52	<1	-	9
54	55	0.24	GC0568	<0.01	-	15	<3	21	<1	-	3.9
55	56	0.34	GC0569	<0.01	-	8	<3	10	1	-	16.2
56	57	0.24	GC0570	<0.01	-	4	<3	18	1	-	8.4
57	58	0.24	GC0571	<0.01	-	129	<3	22	<1	-	7
58	59	0.39	GC0572	<0.01	<0.01	105	<3	52	1	-	7
59	60	0.24	GC0573	<0.01	-	4	<3	24	1	-	5.3
60	61	0.28	GC0574	<0.01	-	3	<3	22	<1	-	5.8
61	62	0.22	GC0575	<0.01	-	4	<3	33	1	-	6.1
62	63	0.24	GC0576	<0.01	-	5	<3	24	1	-	23.8
63	64	0.25	GC0577	<0.01	-	27	<3	43	1	-	1.4
64	65	0.18	GC0578	<0.01	-	112	<3	28	1	-	<0.5
65	66	0.24	GC0579	<0.01	-	7	<3	26	1	-	<0.5
66	67	0.19	GC0580	<0.01	-	9	<3	16	<1	-	<0.5
67	68	0.24	GC0581	<0.01	<0.01	9	<3	18	<1	-	<0.5
68	69	0.36	GC0582	<0.01	-	4	<3	29	1	-	<0.5
69	70	0.27	GC0583	<0.01	-	3	<3	14	1	-	<0.5
70	71	0.20	GC0584	<0.01	-	5	<3	23	1	-	<0.5
71	72	0.24	GC0585	<0.01	-	6	<3	21	<1	-	32.9
72	73	0.35	GC0586	<0.01	-	5	<3	27	1	-	14.9
73	74	0.24	GC0587	<0.01	-	82	<3	25	1	-	7.4
74	74.8		GC0588	<0.01	-	139	<3	29	<1	-	4.9
74.8	76										
76	77										
77	78	.19	GC0589	<0.01	-	7	<3	12	1	-	4.7
78	79	.14	GC0590	<0.01	-	4	<3	9	1	-	4.1
79	80	.19	GC0591	<0.01	<0.01	4	<3	13	<1	-	3.1
80	81	.21	GC0592	<0.01	-	5	<3	14	<1	-	2.5
81	82	.19	GC0593	<0.01	-	6	<3	14	<1	-	5.5
82	83	.21	GC0594	<0.01	-	5	<3	12	1	-	7.6
83	84	.21	GC0595	<0.01	-	3	<3	13	1	-	11.5
84	85	.21	GC0596	<0.01	-	3	<3	14	1	-	4.7
85	86	.28	GC0597	<0.01	<0.01	4	<3	12	1	-	3.9
86	87	.32	GC0598	<0.01	-	3	<3	13	<1	-	18.3
87	88	.28	GC0599	<0.01	-	3	<3	16	1	-	3.5
88	89	.24	GC0600	<0.01	-	3	<3	17	1	-	3.8
89	90	.24	GC0601	<0.01	-	4	<3	21	1	-	5.3
90	91	.26	GC0602	<0.01	-	3	<3	24	1	-	6
91	92	.32	GC0603	<0.01	-	2	<3	22	1	-	6.2
92	93	.33	GC0604	<0.01	-	2	<3	20	1	-	3.9
93	94	.26	GC0605	<0.01	-	3	<3	10	1	-	10.8
94	95	0.25	GC0606	<0.01	0.02	4	<3	14	1	-	5.9
95	96	0.25	GC0607	<0.01	-	4	<3	16	1	-	12.4
96	97	.30	GC0608	<0.01	-	4	<3	16	1	-	3.8
97	98	.24	GC0609	<0.01	-	3	<3	12	<1	-	3.1
98	99	.34	GC0610	<0.01	-	11	<3	13	1	-	4.1
99	100	.25	GC0611	<0.01	-	4	<3	35	1	-	13.5
100	101	.18	GC0612	<0.01	-	5	<3	9	1	-	7.1
101	102	.25	GC0613	<0.01	-	6	<3	85	1	-	4.9
102	103	.36	GC0614	<0.01	-	2	<3	17	1	-	4.2
103	104	.23	GC0615	<0.01	-	7	<3	15	1	-	3.2
104	105	.13	GC0616	<0.01	0.02	4	<3	14	1	-	2.8
105	106	.17	GC0617	<0.01	-	4	<3	12	1	-	2
106	107	.24	GC0618	<0.01	-	3	<3	89	<1	-	2.4

107	108	.34	GC0619	0.01	-	2	<3	15	1	-	3.3
108	109	.29	GC0620	<0.01	-	2	<3	17	1	-	2.7
109	110	.30	GC0621	0.01	-	3	<3	10	1	-	11.2
110	111	.26	GC0622	0.02	-	62	4	14	1	-	8.1
111	112	.23	GC0623	0.01	-	17	9	28	1	-	5
112	113	.28	GC0624	0.04	-	5	<3	16	1	-	4.3
113	114	.30	GC0625	0.02	0.01	2	<3	17	1	-	9.9
114	115	.47	GC0626	0.01	-	2	<3	17	1	-	3.6
115	116	.35	GC0627	0.01	-	3	<3	21	1	-	4.3
116	117	.44	GC0628	0.01	-	4	6	22	1	-	4.2
117	118	.38	GC0629	<0.01	-	2	<3	25	1	-	4.9
118	119	.33	GC0630	0.06	0.04	3	<3	19	1	-	4.4
119	120	.30	GC0631	<0.01	<0.01	4	<3	17	1	-	12.1
120	121	.28	GC0632	<0.01	-	4	<3	14	1	-	10.3
121	122	.33	GC0633	<0.01	-	3	<3	13	1	-	4.9
122	123	.30	GC0634	<0.01	-	3	<3	17	1	-	7.2
123	124	.19	GC0635	<0.01	-	4	<3	10	1	-	3.5
124	125	.22	GC0636	0.01	-	14	<3	17	1	-	4.7
125	126	.22	GC0637	<0.01	-	5	<3	15	1	-	4.1
126	127	.08	GC0638	<0.01	-	5	<3	16	1	-	15.2
127	128	.33	GC0639	<0.01	-	4	<3	21	1	-	10.3
128	129	.25	GC0640	<0.01	-	3	<3	19	1	-	7.3
129	130	.24	GC0641	<0.01	<0.01	174	<3	13	1	-	11.9
130	131	.28	GC0642	<0.01	-	11	<3	13	1	-	5.7
131	132	0.24	GC0643	<0.01	-	5	<3	12	1	-	4.9
132	133	0.31	GC0644	0.01	-	5	<3	9	1	-	3.4
133	134	0.26	GC0645	<0.01	-	5	<3	10	1	-	3.6
134	135	0.28	GC0646	<0.01	-	5	<3	9	1	-	2.3
135	136	0.25	GC0647	<0.01	-	4	<3	10	1	-	13.5
136	137	0.27	GC0648	<0.01	-	4	<3	10	1	-	6.5
137	138	0.23	GC0649	0.01	-	6	<3	10	1	-	8.5
138	139	0.62	GC0650	0.01	-	26	<3	7	1	-	7
139	140	1.29	GC0651	0.01	-	5	<3	9	1	-	3.2
140	141	0.29	GC0652	<0.01	-	4	<3	9	1	-	3
141	142	0.27	GC0653	<0.01	-	5	<3	12	1	-	2.8
142	143	0.37	GC0654	0.04	-	4	<3	10	1	-	7.1
143	144	0.35	GC0655	0.06	-	55	<3	9	<1	-	6.9
144	145	0.21	GC0656	0.01	<0.01	146	<3	7	1	-	4.5
145	146	0.17	GC0657	<0.01	-	4	<3	8	1	-	7
146	147	0.21	GC0658	<0.01	-	5	<3	7	1	-	8
147	148	0.26	GC0659	<0.01	-	6	<3	8	1	-	2.5
148	149	0.19	GC0660	0.02	-	5	<3	4	<1	-	4.6
149	150	0.19	GC0661	<0.01	-	4	<3	4	1	-	1.9
150	151	0.20	GC0662	<0.01	-	14	<3	5	1	-	5.1
151	152	0.21	GC0663	<0.01	<0.01	155	<3	4	1	-	7.1
152	153	0.21	GC0664	<0.01	-	6	<3	8	1	-	6
153	154	0.15	GC0665	<0.01	-	177	3	9	1	-	15.7
154	155	0.41	GC0666	<0.01	<0.01	85	<3	10	1	-	17.6
155	156	0.46	GC0667	<0.01	-	7	<3	14	1	-	6.9
156	157	0.30	GC0668	<0.01	-	5	<3	9	1	-	4.8
157	158	0.23	GC0669	<0.01	-	5	<3	4	1	-	2.1
158	159	0.36	GC0670	<0.01	-	4	<3	6	1	-	2.4
159	160	0.37	GC0671	<0.01	-	4	<3	9	<1	-	2.5
160	161	0.34	GC0672	<0.01	-	7	<3	8	1	-	4.5
161	162	0.25	GC0673	<0.01	-	6	<3	11	1	-	3.1
162	163	0.46	GC0674	<0.01	-	9	<3	7	1	-	3.1

163	164	0.76	GC0675	<0.01	-	23	<3	14	1	-	3.2
164	165	0.40	GC0676	<0.01	-	8	<3	9	<1	-	11.2
165	166	0.31	GC0677	<0.01	-	7	<3	15	<1	-	7.6
166	167	0.29	GC0678	<0.01	-	6	<3	10	1	-	13.6
167	168	0.43	GC0679	<0.01	-	14	<3	9	<1	-	5.3
168	169	0.34	GC0680	<0.01	<0.01	35	<3	11	1	-	3.7
169	170	0.22	GC0681	<0.01	-	2	<3	12	<1	-	1.6
170	171	0.30	GC0682	0.01	-	338	<3	15	<1	-	8.4
171	172	0.26	GC0683	0.02	-	14	<3	18	<1	-	2
172	173	0.24	GC0684	0.03	-	2	<3	19	<1	-	<0.5
173	174	0.32	GC0685	0.02	-	3	<3	18	<1	54	-
174	175	0.23	GC0686	0.01	-	2	<3	16	<1	-	2.8
175	176	0.37	GC0687	0.01	-	<2	<3	15	<1	-	1.4
176	177	0.38	GC0688	0.02	-	3	<3	18	<1	-	1.3
177	178	0.43	GC0689	0.02	-	2	<3	17	<1	-	1.2
178	179	0.31	GC0690	0.01	-	2	<3	18	<1	-	2.2
179	180	0.42	GC0691	0.06	0.06	2	<3	20	<1	-	2.6
180	181	0.46	GC0692	0.02	0.02	<2	<3	25	<1	-	1.1
181	182	0.47	GC0693	0.02	-	<2	<3	19	<1	-	1
182	183	0.37	GC0694	<0.01	-	2	<3	19	<1	-	1.3
183	184	0.29	GC0695	0.02	-	<2	<3	31	<1	-	16.6
184	185	0.32	GC0696	0.02	-	17	<3	28	<1	-	12.9
185	186	0.38	GC0697	0.01	-	23	<3	26	<1	-	6
186	187	0.49	GC0698	0.01	-	33	<3	40	<1	-	4.6
187	188	1.95	GC0699	0.01	-	10	<3	12	<1	-	2.2
188	189	2.21	GC0700	0.01	-	23	<3	10	<1	-	2.6
189	190	0.45	GC0701	0.01	-	56	<3	12	<1	-	2
190	191	0.34	GC0702	0.01	0.01	88	<3	9	<1	-	2.8
191	192	0.26	GC0703	0.02	-	8	<3	9	<1	-	1.8
192	193	0.27	GC0704	<0.01	-	<2	<3	12	<1	-	1.3
193	194	0.24	GC0705	0.01	-	3	<3	11	<1	-	6.4
194	195	0.24	GC0706	<0.01	-	2	<3	11	<1	-	3.8
195	196	0.27	GC0707	0.01	-	<2	<3	10	<1	-	3.1
196	197	0.23	GC0708	0.03	-	6	<3	7	<1	-	3.7
197	198	0.29	GC0709	<0.01	-	8	<3	6	<1	-	1.5
198	199	0.25	GC0710	<0.01	-	2	<3	10	<1	-	1.4
199	200	0.30	GC0711	<0.01	-	4	<3	12	<1	-	1.7
200	201	0.32	GC0712	<0.01	-	3	<3	7	<1	-	0.6
201	202	0.31	GC0713	<0.01	0.04	3	<3	7	<1	-	2.1
202	203	0.25	GC0714	<0.01	0.01	8	<3	7	<1	-	1
203	204	0.29	GC0715	<0.01	-	<2	<3	9	<1	-	4.5
204	205	0.28	GC0716	<0.01	-	<2	<3	11	<1	-	3.3
205	206	0.34	GC0717	0.05	0.03	28	<3	11	<1	-	2.3
206	207	.34	GC0718	<0.01	<0.01	6	<3	6	<1	-	1.8
207	208	2.49	GC0719	<0.01	-	8	<3	9	<1	-	1.1
208	209	9.60	GC0720	<0.01	-	61	<3	13	<1	-	3.8
209	210	7.14	GC0721	<0.01	-	5	<3	11	<1	-	1.2
210	211	3.2	GC0722	<0.01	-	2	<3	5	<1	-	<0.5
211	212	.81	GC0723	0.02	0.03	6	<3	5	<1	-	5.9
212	213	1.36	GC0724	<0.01	-	3	<3	7	<1	-	0.8
213	214	.22	GC0725	0.01	-	3	<3	3	<1	-	3.8
214	215	.28	GC0726	<0.01	<0.01	7	<3	6	<1	-	2.6
215	216	.27	GC0727	0.01	<0.01	4	<3	3	<1	-	2.6
216	217	.32	GC0728	0.01	<0.01	2	<3	7	<1	-	15.4
217	218	.34	GC0729	<0.01	-	5	<3	16	<1	-	4.8
218	219	.36	GC0730	<0.01	-	3	<3	6	<1	-	31.1

219	220	.29	GC0731	<0.01	-	<2	<3	6	<1	-	3.2
220	221	.29	GC0732	<0.01	-	4	<3	7	<1	-	3.4
221	222	.17	GC0733	0.04	-	4	<3	78	<1	-	3.9
222	223	.16	GC0734	0.05	-	<2	<3	4	<1	-	3.5
223	224	.20	GC0735	0.05	-	2	<3	6	<1	-	2.4
224	225	.22	GC0736	0.02	-	3	<3	9	<1	-	2.9
225	226	.20	GC0737	<0.01	-	<2	<3	9	<1	-	7.9
226	227	.23	GC0738	<0.01	-	21	<3	15	<1	-	5
227	228	.24	GC0739	0.01	-	12	<3	8	<1	-	3.3
228	229	.30	GC0740	0.02	-	47	<3	15	<1	-	5.6
229	230	.24	GC0741	0.02	-	3	<3	8	<1	-	3.2
230	231	.22	GC0742	0.03	0.03	31	<3	9	<1	-	3.8
231	232	.20	GC0743	<0.01	-	4	<3	9	<1	-	2.1
232	233	.23	GC0744	0.01	-	4	<3	6	<1	-	2.3
233	234	.26	GC0745	0.02	-	13	<3	7	<1	-	5.4
234	235	.23	GC0746	<0.01	-	<2	<3	10	<1	-	4
235	236	.21	GC0747	<0.01	-	5	<3	16	<1	-	18.3
236	237	.13	GC0748	0.04	-	11	<3	13	<1	-	5.8
237	238	.22	GC0749	0.02	0.02	4	<3	22	<1	-	7
238	239	.24	GC0750	0.02	-	5	<3	16	<1	-	4.4
239	240	.24	GC0751	0.04	-	3	<3	12	<1	-	4.1
240	241	.40	GC0752	0.02	0.03	<2	<3	6	<1	-	4
241	242	.44	GC0753	0.04	-	3	<3	14	<1	-	4.7
242	243	.38	GC0754	0.02	-	4	<3	10	<1	-	4
243	244	.39	GC0755	0.03	-	3	<3	7	<1	-	3.6
244	245	.38	GC0756	0.03	-	4	<3	10	<1	-	3.1
245	246	.41	GC0757	<0.01	-	3	<3	9	<1	-	19.5
246	247	.75	GC0758	0.05	-	2	<3	9	<1	-	8.2
247	248	.59	GC0759	0.03	-	4	<3	7	<1	-	6.4
248	249	.50	GC0760	<0.01	-	4	<3	8	<1	-	5
249	250	1.48	GC0761	0.02	-	2	<3	7	<1	-	4.2
250	251	1.13	GC0762	0.01	-	4	<3	8	<1	-	4.7
251	252	1.29	GC0763	<0.01	-	3	<3	10	<1	-	4
252	253	1.49	GC0764	0.02	-	2	<3	8	<1	-	2.8
253	254	.64	GC0765	<0.01	-	4	<3	9	<1	-	5
254	255	2.62	GC0766	0.03	0.05	5	<3	5	<1	-	3.2
255	256	1.26	GC0767	<0.01	<0.01	3	<3	5	<1	-	9
256	257	1.72	GC0768	<0.01	-	3	<3	5	<1	-	8.6
257	258	1.58	GC0769	<0.01	-	2	<3	10	<1	-	4.5
258	259	.79	GC0770	<0.01	-	5	<3	10	<1	-	3.7
259	260	.53	GC0771	0.13	-	9	<3	9	<1	-	3.4
260	261	.39	GC0772	0.09	-	219	<3	7	<1	-	5.4
261	262	.37	GC0773	0.06	0.07	4	<3	8	<1	-	5.7
262	263	.33	GC0774	0.08	-	6	<3	20	<1	-	3.2
263	264	.39	GC0775	0.06	-	8	<3	13	<1	-	3.2
264	265	.34	GC0776	0.04	-	2	<3	9	<1	-	2.7
265	266	.31	GC0777	0.08	0.07	4	<3	9	<1	-	3.5
266	267	.28	GC0778	0.07	0.05	5	<3	7	<1	-	3.2
267	268	.28	GC0779	0.04	-	3	<3	28	<1	-	2.3
268	269	.27	GC0780	0.03	-	5	<3	8	<1	-	3.5
269	270	.26	GC0781	0.04	-	4	5	6	<1	58	-
270	271	.27	GC0782	0.16	-	6	7	12	<1	<50	<0.5
271	272	.30	GC0783	<0.01	-	<2	7	7	<1	<50	<0.5
272	273	.23	GC0784	<0.01	-	3	<3	5	<1	60	-
273	274	.21	GC0785	<0.01	-	4	3	6	<1	<50	<0.5
274	275	.26	GC0786	<0.01	-	<2	5	5	<1	<50	<0.5

275	276	.16	GC0787	<0.01	-	2	<3	5	<1	<50	<0.5
276	277	.39	GC0788	<0.01	-	3	<3	7	<1	<50	<0.5
277	278	.17	GC0789	0.18	0.06	3	<3	5	<1	60	-
278	279	.14	GC0790	0.02	-	<2	3	3	<1	<50	<0.5
279	280	.11	GC0791	<0.01	-	4	3	4	<1	<50	5
280	281	.06	GC0792	<0.01	0.02	4	<3	3	<1	<50	<0.5
281	282	.06	GC0793	0.01	-	2	<3	2	<1	<50	<0.5
282	283	.19	GC0794	<0.01	-	3	<3	3	<1	50	-
283	284	.21	GC0795	<0.01	0.01	<2	<3	5	<1	<50	<0.5
284	285	.15	GC0796	<0.01	-	3	3	3	<1	<50	13
285	286	.19	GC0797	0.04	<0.01	4	<3	3	<1	<50	9
286	287	.19	GC0798	<0.01	-	5	<3	4	<1	<50	<0.5
287	288	.21	GC0799	<0.01	-	<2	<3	5	<1	<50	12
288	289	.25	GC0800	<0.01	-	4	<3	5	<1	<50	4
289	290	.22	GC0801	0.01	-	4	<3	4	<1	61	-
290	291	.26	GC0802	<0.01	<0.01	3	<3	6	<1	<50	11
291	292	.26	GC0803	0.01	-	4	<3	6	<1	50	-
292	293	.25	GC0804	<0.01	-	8	<3	5	<1	<50	17
293	294	.24	GC0805	<0.01	-	6	<3	4	<1	<50	24
294	295	.24	GC0806	<0.01	-	6	<3	3	<1	<50	7
295	296	.21	GC0807	0.01	-	4	<3	3	<1	<50	2
296	297	.29	GC0808	<0.01	-	3	<3	4	<1	<50	18
297	298	.26	GC0809	0.03	-	5	<3	4	<1	<50	7
298	299	.31	GC0810	0.02	-	6	<3	5	<1	<50	12
299	300	.40	GC0811	0.01	-	6	<3	5	<1	<50	4

3. Camera Surveys

Hole	Depth (m)	Azimuth (AMG)	Dip
LSDDH2	6	297	45
LSDDH2	36	296	47
LSDDH2	66	294	47
LSDDH2	95	295	46.5
LSDDH2	125	294	46
LSDDH2	155	292.5	46
LSDDH2	185	292.5	45
LSDDH2	215	292.5	45
LSDDH2	245	279	43.5
LSDDH2	275	293	43.5
LSDDH2	300	294	42.5

Goldstream – Titan Corinna Joint Venture
DRILL LOGS

Hole I.D.: **LSDDH3**
Tenement: EL43/94
Prospect: Lucy Spur
AMG: 347730mE5384715mN
Azimuth: 292°AMG
Dip: 45°
Drill: LF70
Core: HQ to 62.5m
NQ to 301.5m
Contractor: Almac Drilling
Completed: 20/3/97

1. Geotechnical log

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
2.0	3.5	0	0	0	-	-	-
3.5	5.0	250	17	0	>100	>50	>50
5.0	6.5	250	17	0	>50	>25	>25
6.5	8.0	200	13	0	>50	>25	>25
8.0	9.5	850	57	0	>50	>25	>25
9.5	11.0	950	63	0	35	15	20
11.0	12.5	1400	93	0	>50	10	40
12.5	14.0	900	60	0	>100	>50	>50
14.0	15.5	230	15	0	>50	>25	>25
15.5	17.0	130	9	0	>25	>12	>13
17.0	18.5	0	0	0	-	-	-
18.5	20.0	400	27	0	>100	>50	>50
20.0	21.5	650	43	0	>50	>25	>25
21.5	23.0	500	33	0	>50	>25	>25
23.0	26.0	450	15	0	>100	>50	>50
26.0	27.5	750	50	29	>50	>25	>25
27.5	29.0	400	27	0	>50	>25	>25
29.0	30.5	1150	77	87	15	2	13
30.5	32.0	1400	93	17	24	4	20
32.0	33.5	750	50	9	>50	>5	>45
33.5	35.0	950	63	0	>50	>10	>40
35.0	36.5	950	63	0	>25	4	>21
36.5	38.0	450	30	0	>25	3	>22
38.0	39.5	450	30	0	>50	>25	>25
39.5	41.0	1300	87	9	45	7	38
41.0	42.5	800	53	0	>100	>50	>50
42.5	44.0	950	63	0	>50	5	>45
44.0	45.5	650	43	0	>50	>10	>40
45.5	47.0	600	40	0	>50	>10	>40
47.0	48.5	500	33	0	>50	>10	>40
48.5	49.7	550	46	0	>50	>10	>40
49.7	50.4	570	81	0	25	3	22
50.4	51.5	250	23	0	>25	3	>22
51.5	53.0	1250	83	12	65	4	61

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
53.0	54.5	1000	67	0	>50	3	>47
54.5	55.2	550	79	0	38	2	36
55.2	56.4	750	62	34	>30	9	>21
56.4	57.5	635	58	0	>25	2	>23
57.5	58.8	830	64	0	>30	6	>24
58.8	59.9	640	58	0	>40	>20	>20
59.9	60.5	450	75	24	>15	5	>10
60.5	62.5	1995	100	10	64	5	59
62.5	65.0	2240	89	0	85	17	68
65.0	68.0	2500	83	0	>80	5	>75
68.0	71.0	2750	92	0	>100	10	>90
71.0	74.0	2785	93	12	70	5	65
74.0	77.0	2940	98	32	57	4	53
77.0	80.0	3000	100	51	41	1	40
80.0	83.0	3030	100+	41	38	5	33
83.0	86.0	2760	92	30	57	9	48
86.0	89.0	2140	71	16	>50	2	>48
89.0	92.0	2840	95	45	50	5	45
92.0	95.0	3050	100+	54	41	5	36
95.0	98.0	3015	100+	23	60	9	51
98.0	100.3	1760	76	0	>100	5	>90
100.3	102.6	2060	89	6	>60	2	>60
102.6	107.0	4215	96	30	>100	10	>90
107.0	110.0	2965	99	95	17	2	15
110.0	113.0	3040	100+	91	26	1	25
113.0	116.0	2990	99	70	34	8	26
116.0	119.0	2995	99	56	34	1	33
119.0	122.0	2945	98	52	44	5	39
122.0	125.0	2975	99	77	24	4	20
125.0	128.0	3025	100+	76	33	4	29
128.0	131.0	2935	98	66	32	0	32
131.0	134.0	2960	99	45	43	4	39
134.0	137.0	2990	99	84	27	3	24
137.0	140.0	2905	97	65	>35	5	>30
140.0	143.0	2930	98	53	38	3	35
143.0	146.0	2990	99	62	32	2	31
146.0	149.0	2965	99	75	26	0	26
149.0	152.0	3020	100+	80	26	1	25
152.0	155.0	3060	100+	89	18	1	17
155.0	158.0	2965	99	88	21	0	21
158.0	161.0	3045	100+	87	23	2	21
161.0	164.0	3000	100	80	26	0	26
164.0	167.0	2990	99	75	28	1	27
167.0	170.0	3000	100	84	29	1	28
170.0	173.0	2865	92	78	23	0	23
173.0	176.0	3120	100+	84	20	0	20
176.0	179.0	3020	100+	96	17	3	14
179.0	182.0	2920	97	72	27	3	24
182.0	185.0	3000	100	71	35	3	32
185.0	188.0	2935	98	74	25	2	23
188.0	191.0	3000	100	82	25	4	21
191.0	194.0	2940	98	75	25	1	24

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
194.0	197.0	3000	100	79	23	4	19
197.0	200.0	3005	100+	90	14	1	13
200.0	203.0	3000	100	84	20	0	20
203.0	206.0	3000	100	80	23	3	20
206.0	209.0	3000	100	94	17	3	14
209.0	212.0	3000	100	92	14	1	13
212.0	215.0	3000	100	86	22	3	19
215.0	218.0	2990	99	97	12	1	11
218.0	221.0	3055	100+	96	13	2	11
221.0	224.0	2990	99	98	13	2	11
224.0	227.0	2940	98	94	17	3	14
227.0	230.0	2995	99	77	25	5	20
230.0	233.0	3000	100	92	19	2	17
233.0	236.0	3000	100	73	33	13	20
236.0	239.0	2845	95	31	>50	12	>40
239.0	242.0	3000	100	86	23	2	21
242.0	245.0	2950	98	93	12	0	12
245.0	248.0	3035	100+	80	19	4	15
248.0	251.0	2905	97	91	13	0	13
251.0	254.0	3060	100+	87	20	1	19
254.0	257.0	3000	100	72	25	4	21
257.0	260.0	2880	96	37	>50	5	>45
260.0	263.0	2665	89	35	>60	2	>58
263.0	266.0	3000	100	80	24	2	22
266.0	269.0	2915	97	39	>47	10	>37
269.0	272.0	3000	100	59	36	2	34
272.0	275.0	2985	99	83	22	4	18
275.0	278.0	3000	100	87	22	7	15
278.0	281.0	3000	100	85	18	5	13
281.0	284.0	3020	101	85	16	7	9
284.0	287.0	2950	98	82	15	4	11
287.0	290.0	2915	7	75	31	19	12
290.0	293.0	3055	102	49	50+	25+	25
293.0	296.0	3000	100	14	100+	-	-
296.0	299.0	3000	100	18	75+		
299.0	301.5	2500	100	50	40+	19	21

2. Assay numbers = half core; magnetic susceptibility = average of top, middle, bottom of 1m intervals, measured on flat of split core.

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As
3.5	5		GC0881	<0.01	-	10	<3	15	<1	<50	<0.5
5	6		GC0882	<0.01	<0.01	<2	<3	2	<1	<50	4
6	7		GC0883	0.01	-	4	<3	4	<1	<50	1
7	8		GC0884	<0.01	-	11	<3	4	<1	<50	11
8	9	.12	GC0885	<0.01	-	13	<3	4	<1	<50	3
9	10	.09	GC0886	0.03	-	15	6	15	<1	-	8
10	11	.13	GC0887	<0.01	-	13	6	14	<1	-	7.4
11	12	.14	GC0888	0.04	-	14	6	13	<1	-	3.5
12	13	.18	GC0889	0.01	-	16	5	13	<1	-	8.2
13	14	0.17	GC0890	<0.01	-	13	9	28	<1	-	0.6
14	15.5		GC0891	0.01	-	10	4	30	<1	-	<0.5
15.5	17		GC0892	0.01	<0.01	8	6	17	<1	-	4.2
17	18.5										
18.5	20		GC0893	0.01	-	12	4	37	<1	-	14.8
20	21		GC0894	0.01	-	9	8	34	<1	-	4.2
21	22		GC0895	0.01	-	18	7	25	<1	-	15.5
22	23		GC0896	0.01	-	13	7	31	<1	-	4.1
23	26	.11	GC0897	0.01	-	8	9	11	<1	-	2.6
26	27		GC0898	<0.01	-	8	10	25	<1	-	2.7
27	28		GC0899	<0.01	<0.01	9	11	27	<1	-	2.4
28	29		GC0900	<0.01	-	8	10	27	<1	-	2.8
29	30	.15	GC0901	<0.01	<0.01	28	10	11	<1	-	7
30	31	.12	GC0902	<0.01	-	30	10	6	<1	-	4.9
31	32	.05	GC0903	<0.01	-	19	19	13	<1	-	2.3
32	33	-	GC0904	0.01	-	16	13	17	<1	-	1.6
33	34	.09	GC0905	0.01	-	61	<3	15	<1	-	15.8
34	35	.09	GC0906	<0.01	-	49	5	13	<1	-	5.9
35	36	.10	GC0907	0.04	-	43	7	18	<1	-	5.5
36	37	-	GC0908	0.03	-	35	<3	14	<1	-	2.7
37	38	.05	GC0909	0.02	-	17	7	17	<1	-	2.3
38	39		GC0910	0.04	-	13	4	23	<1	-	1.5
39	40	.12	GC0911	0.02	-	16	5	12	<1	-	1.6
40	41	.11	GC0912	0.01	-	21	4	10	<1	-	2.1
41	42	.28	GC0913	0.01	-	19	9	19	<1	-	1.9
42	43	.18	GC0914	0.04	-	21	<3	8	<1	-	1.7
43	44	.25	GC0915	0.01	<0.01	133	<3	11	<1	-	11.2
44	45	.07	GC0916	0.03	-	13	8	11	<1	-	3.1
45	46	.30	GC0917	0.01	-	8	4	14	<1	-	4.9
46	47		GC0918	<0.01	<0.01	8	4	15	<1	-	25.9
47	48		GC0919	0.01	-	7	7	25	<1	-	4.2
48	49		GC0920	<0.01	<0.01	7	17	25	<1	-	7.5
49	50	.37	GC0921	0.01	<0.01	12	8	19	<1	-	6.1
50	51	.37	GC0922	<0.01	-	10	<3	26	<1	-	15
51	52	.33	GC0923	<0.01	-	85	6	95	<1	-	5
52	53	.29	GC0924	<0.01	-	908	8	31	<1	-	11.3
53	54	.33	GC0925	<0.01	-	20	3	22	<1	-	9.1
54	55	.26	GC0926	<0.01	-	11	4	22	<1	-	2.9
55	56	.26	GC0927	<0.01	-	36	<3	21	<1	-	2.9
56	57	.26	GC0928	0.01	<0.01	134	7	14	<1	-	3

57	58	.36	GC0929	<0.01	-	18	<3	21	<1	-	2
58	59	.19	GC0930	0.02	-	29	4	19	<1	-	2.8
59	60	.33	GC0931	0.01	-	<2	<3	16	<1	-	7.6
60	61	.26	GC0932	<0.01	-	4	<3	21	<1	-	8
61	62	.28	GC0933	0.02	-	7	<3	18	<1	-	2.3
62	63	.36	GC0934	0.02	0.01	<2	<3	17	<1	-	1.7
63	64	.36	GC0935	<0.01	-	3	3	16	<1	-	2.6
64	65	.42	GC0936	0.01	-	4	<3	16	<1	-	2.2
65	66	.44	GC0937	0.02	0.01	<2	<3	18	<1	-	3.2
66	67	.37	GC0938	0.01	-	2	6	16	<1	-	1.7
67	68	.26	GC0939	<0.01	-	2	<3	18	<1	-	1.6
68	69	.29	GC0940	<0.01	-	3	<3	16	<1	-	1.4
69	70	.18	GC0941	<0.01	<0.01	4	<3	20	<1	-	12.3
70	71	.26	GC0942	<0.01	-	4	<3	19	<1	-	5.4
71	72	.31	GC0943	0.02	-	3	4	19	<1	-	5.7
72	73	.32	GC0944	0.01	-	13	<3	16	<1	-	4.2
73	74	.41	GC0945	0.02	-	16	<3	17	<1	-	5.1
74	75	.43	GC0946	<0.01	-	74	<3	16	<1	-	3.5
75	76	.46	GC0947	<0.01	-	43	<3	16	<1	-	3
76	77	.35	GC0948	<0.01	-	50	8	14	<1	-	33.4
77	78	.42	GC0949	0.01	-	3	3	16	<1	-	9
78	79	.33	GC0950	0.02	-	4	4	12	<1	-	6.2
79	80	.31	GC0951	0.02	-	4	4	16	<1	-	6.8
80	81	.35	GC0952	0.04	-	3	3	19	<1	-	6.2
81	82	.31	GC0953	0.01	-	3	5	17	<1	-	5.2
82	83	.29	GC0954	<0.01	0.01	4	4	15	<1	-	5.8
83	84	.29	GC0955	<0.01	<0.01	<2	6	16	<1	-	3.9
84	85	.29	GC0956	<0.01	-	3	5	15	<1	-	5.4
85	86	.18	GC0957	<0.01	-	10	3	18	<1	-	13
86	87	.17	GC0958	<0.01	-	32	4	16	<1	-	8.5
87	88	.16	GC0959	<0.01	-	11	<3	17	<1	-	7.1
88	89	.18	GC0960	0.03	-	24	<3	15	<1	-	6.4
89	90	.20	GC0961	<0.01	-	8	3	15	<1	-	6
90	91	.26	GC0962	<0.01	<0.01	3	<3	14	<1	-	4.9
91	92	.28	GC0963	<0.01	-	5	<3	13	<1	-	5.2
92	93	.27	GC0964	<0.01	-	3	<3	12	<1	-	5.8
93	94	.26	GC0965	0.02	-	4	5	13	<1	-	4.8
94	95	.25	GC0966	<0.01	-	3	3	12	<1	-	6.3
95	96	.23	GC0967	<0.01	-	3	<3	13	<1	-	17.7
96	97	.20	GC0968	<0.01	-	4	<3	12	<1	-	8.2
97	98	.37	GC0969	<0.01	-	8	<3	14	<1	-	9.8
98	99	.23	GC0970	0.02	-	4	<3	15	<1	-	10.3
99	100	.18	GC0971	<0.01	-	5	<3	13	<1	-	4.9
100	101	.21	GC0972	0.01	-	8	<3	16	<1	-	5.9
101	102	.22	GC0973	0.02	-	1008	<3	16	<1	-	12.4
102	103	.19	GC0974	<0.01	<0.01	470	<3	13	<1	-	10.5
103	104	.24	GC0975	<0.01	-	18	6	18	<1	-	8.8
104	105	.24	GC0976	<0.01	<0.01	18	<3	16	<1	-	6.4
105	106	.22	GC0977	0.01	-	132	<3	12	<1	-	9.3
106	107	.21	GC0978	<0.01	-	9	<3	12	<1	-	5
107	108	.24	GC0979	<0.01	-	4	<3	9	<1	-	4.5
108	109	.38	GC0980	<0.01	-	6	5	10	<1	-	4.3
109	110	.30	GC0981	<0.01	-	4	<3	10	<1	-	4.7
110	111	.27	GC0982	<0.01	-	6	<3	13	<1	-	3.4
111	112	.15	GC0983	<0.01	<0.01	6	<3	5	<1	-	3.2
112	113	.15	GC0984	<0.01	-	6	<3	5	<1	-	11.1

113	114	.14	GC0985	<0.01	-	5	<3	7	<1	-	4.6
114	115	.15	GC0986	<0.01	-	8	<3	10	<1	-	6.9
115	116	.24	GC0987	<0.01	-	6	<3	13	<1	-	8.6
116	117	.27	GC0988	<0.01	-	2	<3	11	<1	-	6.3
117	118	.25	GC0989	<0.01	-	7	<3	11	<1	-	5.6
118	119	.27	GC0990	<0.01	-	3	<3	12	<1	-	5.4
119	120	.20	GC0991	0.06	-	3	<3	13	<1	-	5.3
120	121	.16	GC0992	0.03	-	57	<3	13	<1	-	4.5
121	122	.21	GC0993	0.01	-	9	<3	8	<1	-	4.3
122	123	.24	GC0994	0.01	-	5	<3	11	<1	-	14.6
123	124	.23	GC0995	<0.01	-	4	<3	10	<1	-	6
124	125	.28	GC0996	0.03	-	6	<3	12	<1	-	6.5
125	126	.27	GC0997	0.03	<0.01	5	<3	12	<1	-	4.9
126	127	.23	GC0998	0.02	-	4	<3	13	<1	-	9.5
127	128	.28	GC0999	<0.01	-	4	<3	13	<1	-	4.5
128	129	.27	GC1000	<0.01	-	4	<3	12	<1	-	5.1
129	130	.32	GC1001	<0.01	-	6	<3	14	<1	-	5
130	131	.29	GC1002	<0.01	-	8	<3	14	<1	-	3.8
131	132	.28	GC1003	0.02	-	546	<3	12	<1	-	5.7
132	133	.24	GC1004	<0.01	<0.01	43	<3	12	<1	-	9.3
133	134	.28	GC1005	<0.01	-	7	<3	15	<1	-	4.5
134	135	.24	GC1006	0.02	-	7	<3	13	<1	-	3.7
135	136	.24	GC1007	<0.01	-	5	<3	11	<1	-	2.6
136	137	.27	GC1008	0.01	-	6	<3	13	<1	-	3.1
137	138	.20	GC1009	<0.01	-	6	4	12	<1	-	4.5
138	139	.28	GC1010	<0.01	<0.01	4	6	10	<1	-	10.3
139	140	.21	GC1011	<0.01	-	6	<3	13	<1	-	37.3
140	141	.27	GC1012	<0.01	-	8	<3	11	<1	-	14.2
141	142	.30	GC1013	<0.01	-	4	<3	10	<1	-	8.9
142	143	.28	GC1014	<0.01	-	7	<3	11	<1	-	9.5
143	144	.32	GC1015	<0.01	-	6	<3	12	<1	-	34.2
144	145	.24	GC1016	<0.01	-	5	<3	58	<1	-	7.1
145	146	.32	GC1017	<0.01	-	8	<3	36	<1	-	7.7
146	147	.28	GC1018	<0.01	<0.01	4	3	36	<1	-	5.2
147	148	.21	GC1019	<0.01	-	5	<3	19	<1	-	10.5
148	149	.17	GC1020	<0.01	-	7	<3	15	<1	-	7.3
149	150	.17	GC1021	<0.01	-	4	<3	13	<1	-	2.6
150	151	.21	GC1022	<0.01	-	7	<3	10	<1	-	2.3
151	152	.21	GC1023	<0.01	-	9	6	8	<1	-	1.8
152	153	.33	GC1024	<0.01	-	7	6	11	<1	-	2.1
153	154	.27	GC1025	<0.01	<0.01	5	7	9	<1	-	2.4
154	155	.28	GC1026	<0.01	-	6	4	8	<1	-	18.9
155	156	.26	GC1027	<0.01	-	16	7	10	<1	-	3.8
156	157	.25	GC1028	<0.01	-	9	3	9	<1	-	2.7
157	158	.29	GC1029	<0.01	-	5	5	16	<1	-	3.6
158	159	.20	GC1030	<0.01	-	75	4	17	<1	-	6.9
159	160	.18	GC1031	<0.01	-	1504	7	16	<1	-	7.8
160	161	.20	GC1032	<0.01	-	670	7	15	<1	-	5.8
161	162	.16	GC1033	<0.01	-	503	8	10	<1	-	5.9
162	163	.26	GC1034	<0.01	-	507	8	12	<1	-	7.3
163	164	.26	GC1035	<0.01	-	999	4	16	<1	-	11.5
164	165	.35	GC1036	<0.01	-	8	6	13	<1	-	11.7
165	166	.24	GC1037	<0.01	-	11	5	14	<1	-	8.6
166	167	.25	GC1038	<0.01	-	36	<3	12	<1	-	10.1
167	168	.32	GC1039	<0.01	<0.01	14	6	14	<1	-	2.5
168	169	.29	GC1040	<0.01	-	771	7	12	<1	-	4.8

169	170	.31	GC1041	<0.01	<0.01	37	<3	13	<1	-	2.3
170	171	.21	GC1042	<0.01	-	8	<3	13	<1	-	1.7
171	172	.22	GC1043	<0.01	-	35	4	8	<1	-	1.5
172	173	.34	GC1044	<0.01	-	21	4	9	<1	-	2
173	174	.32	GC1045	<0.01	-	17	7	12	<1	-	2.1
174	175	.26	GC1046	<0.01	<0.01	6	7	9	<1	-	7.2
175	176	.31	GC1047	<0.01	-	8	6	11	<1	-	3
176	177	.26	GC1048	<0.01	-	27	11	14	<1	-	2.9
177	178	.27	GC1049	<0.01	-	511	7	13	<1	-	6.3
178	179	.22	GC1050	<0.01	-	10	7	11	<1	-	3.4
179	180	.18	GC1051	<0.01	-	7	6	10	<1	-	1.5
180	181	.22	GC1052	<0.01	-	479	7	13	<1	-	6.8
181	182	.10	GC1053	<0.01	-	378	5	12	<1	-	2.9
182	183	.21	GC1054	<0.01	-	213	5	13	<1	-	2.4
183	184	.19	GC1055	<0.01	-	329	9	13	<1	-	4.6
184	185	.17	GC1056	<0.01	-	100	10	12	<1	-	15.3
185	186	.22	GC1057	0.01	-	1363	6	16	<1	-	5.9
186	187	.24	GC1058	<0.01	-	394	5	15	<1	-	4.3
187	188	.21	GC1059	<0.01	-	100	7	14	<1	-	2.5
188	189	.22	GC1060	<0.01	<0.01	416	9	16	<1	-	3.9
189	190	.23	GC1061	<0.01	-	319	9	13	<1	-	4.2
190	191	.23	GC1062	<0.01	-	172	7	14	<1	-	4.1
191	192	.23	GC1063	<0.01	-	10	7	11	<1	-	1.7
192	193	.33	GC1064	<0.01	-	86	12	13	<1	-	1
193	194	.30	GC1065	0.06	0.06	63	5	14	<1	-	<0.5
194	195	.24	GC1066	0.03	-	8	96	269	<1	-	7
195	196	.31	GC1067	0.02	0.01	14	31	150	<1	-	6
196	197	.29	GC1068	0.02	-	2	<3	29	<1	-	17
197	198	.323	GC1069	<0.01	-	2	<3	19	<1	-	5
198	199	.34	GC1070	0.02	-	<2	10	22	<1	-	1
199	200	.34	GC1071	0.01	-	<2	<3	25	<1	-	10
200	201	.30	GC1072	0.02	0.02	<2	23	61	<1	-	29
201	202	.31	GC1073	<0.01	-	6	<3	10	<1	-	<0.5
202	203	.29	GC1074	<0.01	-	5	<3	10	<1	-	19
203	204	.20	GC1075	0.01	-	12	30	75	<1	-	7
204	205	.17	GC1076	0.04	<0.01	12	11	201	<1	-	9
205	206	.30	GC1077	0.02	-	4	<3	11	<1	-	14
206	207	.32	GC1078	0.02	-	5	<3	30	<1	-	9
207	208	.42	GC1079	<0.01	<0.01	3	<3	12	<1	-	<0.5
208	209	.29	GC1080	<0.01	-	3	<3	6	<1	-	<0.5
209	210	.27	GC1081	0.01	-	7	<3	10	<1	-	31
210	211	.39	GC1082	0.02	-	5	<3	11	<1	-	8
211	212	.38	GC1083	<0.01	-	4	<3	9	<1	-	42
212	213	.40	GC1084	<0.01	-	2	<3	7	<1	-	<0.5
213	214	.41	GC1085	<0.01	-	5	3	9	<1	-	<0.5
214	215	.42	GC1086	0.01	-	6	<3	8	<1	-	<0.5
215	216	.33	GC1087	0.04	-	2	<3	46	<1	-	<0.5
216	217	.34	GC1088	0.04	<0.01	5	<3	11	<1	-	8
217	218	.36	GC1089	0.02	-	2	<3	14	<1	-	2
218	219	.34	GC1090	0.03	-	7	<3	14	<1	-	<0.5
219	220	.36	GC1091	0.04	-	3	<3	14	<1	-	<0.5
220	221	.30	GC1092	0.02	-	10	<3	35	<1	-	32
221	222	.37	GC1093	0.01	0.02	4	<3	21	<1	-	18
222	223	.29	GC1094	0.01	-	4	3	16	<1	-	14
223	224	.31	GC1095	0.01	-	6	6	15	<1	-	<0.5
224	225	.35	GC1096	0.02	-	5	5	18	<1	-	7

225	226	.33	GC1097	0.02	-	2	31	59	<1	-	<0.5
226	227	.30	GC1098	0.02	-	4	<3	14	<1	-	10
227	228	.28	GC1099	0.02	-	98	<3	16	<1	-	<0.5
228	229	.24	GC1100	<0.01	<0.01	246	<3	17	<1	-	<0.5
229	230	.22	GC1101	<0.01	-	101	<3	10	<1	-	2
230	231	.143	GC1102	0.04	-	8	<3	<2	<1	-	10
231	232	.20	GC1103	0.02	-	6	<3	<2	<1	-	<0.5
232	233	.29	GC1104	<0.01	-	10	22	<2	<1	-	<0.5
233	234	.25	GC1105	0.03	-	731	<3	10	<1	-	<0.5
234	235	.28	GC1106	0.02	-	1120	<3	7	<1	-	17
235	236	.28	GC1107	0.01	-	933	15	13	<1	-	<0.5
236	237	.22	GC1108	0.09	0.03	327	<3	13	<1	-	<0.5
237	238	.27	GC1109	0.06	-	124	<3	14	<1	-	23
238	239	.32	GC1110	0.04	-	11	<3	11	<1	-	14
239	240	.33	GC1111	0.02	-	19	<3	13	<1	-	<0.5
240	241	.24	GC1112	0.14	0.08	6	<3	13	<1	-	<0.5
241	242	.33	GC1113	0.04	-	11	<3	9	<1	-	13
242	243	.30	GC1114	0.04	0.02	3	<3	9	<1	-	37
243	244	.19	GC1115	0.03	-	25	<3	7	<1	-	<0.5
244	245	.24	GC1116	<0.01	-	16	<3	3	<1	-	<0.5
245	246	.30	GC1117	0.03	-	10	<3	13	<1	-	11
246	247	.27	GC1118	0.04	-	7	<3	6	<1	-	<0.5
247	248	.35	GC1119	0.02	-	11	<3	10	<1	-	<0.5
248	249	.29	GC1120	0.05	-	12	<3	12	<1	-	<0.5
249	250	.30	GC1121	0.02	0.02	16	4	12	<1	-	<0.5
250	251	.31	GC1122	0.1	-	11	<3	13	<1	-	12
251	252	.33	GC1123	0.02	-	7	<3	13	<1	-	<0.5
252	253	.31	GC1124	0.04	-	8	<3	18	<1	-	<0.5
253	254	.32	GC1125	0.06	-	9	<3	12	<1	-	<0.5
254	255	.29	GC1126	0.03	-	30	<3	12	<1	-	14
255	256	.29	GC1127	0.01	-	51	<3	9	<1	-	<0.5
256	257	.22	GC1128	0.04	0.07	275	<3	24	<1	-	<0.5
257	258	.17	GC1129	0.03	-	194	<3	27	<1	-	<0.5
258	259	.25	GC1130	0.02	-	220	<3	20	<1	-	6
259	260	.17	GC1131	0.04	0.04	221	3	17	<1	-	<0.5
260	261	.19	GC1132	0.02	0.02	252	4	20	<1	-	<0.5
261	262	.15	GC1133	<0.01	0.02	508	<3	20	<1	-	1
262	263	.22	GC1134	0.06	-	898	<3	22	<1	-	<0.5
263	264	.20	GC1135	0.01	-	279	<3	18	<1	-	<0.5
264	265	.20	GC1136	0.02	-	743	<3	24	<1	-	<0.5
265	266	.23	GC1137	0.01	0.01	1122	<3	17	<1	-	2
266	267	.20	GC1138	0.01	-	387	<3	19	<1	-	<0.5
267	268	.20	GC1139	0.03	-	719	<3	31	<1	-	<0.5
268	269	.18	GC1140	0.04	-	1257	<3	23	<1	-	4
269	270	.22	GC1141	0.01	-	219	<3	20	<1	-	<0.5
270	271	.32	GC1142	0.03	<0.01	370	4	21	<1	-	<0.5
271	272	.31	GC1143	0.02	-	15	5	37	<1	-	<0.5
272	273	.28	GC1144	0.03	-	11	<3	15	<1	-	26
273	274	.31	GC1145	-	-	69	<3	10	<1	-	30
274	275	.32	GC1146	<0.01	-	53	6	22	<1	-	5
			GC1147	<0.01	-	4	<3	21	<1	-	4
275	276	.32	GC1148	<0.01	-	<2	<3	20	<1	-	4
276	277	.31	GC1149	<0.01	-	3	<3	22	<1	-	13
277	278	.31	GC1150	0.01	-	4	<3	21	<1	-	6
278	279	.31	GC1151	<0.01	-	5	<3	21	<1	-	1
279	280	.31	GC1152	<0.01	-	3	<3	21	<1	-	4

280	281	.33	GC1153	<0.01	-	4	5	23	<1	-	<0.5
281	282	.33	GC1154	<0.01	-	<2	<3	21	<1	-	2
282	283	.33	GC1155	<0.01	-	2	6	23	<1	-	7
283	284	.29	GC1156	<0.01	-	<2	3	22	<1	-	2
284	285	.25	GC1157	<0.01	-	4	5	19	<1	-	8
285	286	.22	GC1158	<0.01	-	<2	5	20	<1	-	3
286	287	.25	GC1159	<0.01	-	2	6	20	<1	-	2
287	288	.26	GC1160	<0.01	-	2	9	17	<1	-	4
288	289	.20	GC1161	<0.01	-	4	6	16	<1	-	8
289	290	.31	GC1162	0.07	-	101	<3	16	<1	-	5
290	291	.23	GC1163	<0.01	-	21	<3	15	<1	-	2
291	292	.24	GC1164	<0.01	-	11	<3	19	<1	-	1
292	293	.23	GC1165	<0.01	-	47	<3	15	<1	-	4
293	294	.22	GC1166	<0.01	-	204	<3	20	<1	-	6
294	295	.26	GC1167	<0.01	-	40	<3	25	<1	-	2
295	296	.22	GC1168	<0.01	-	37	<3	18	<1	-	<0.5
296	297	.25	GC1169	<0.01	-	29	<3	18	<1	-	5
297	298	.25	GC1170	<0.01	-	12	<3	18	<1	-	8
298	299	.20	GC1171	<0.01	-	118	<3	22	<1	-	5
299	300	.19	GC1172	<0.01	-	4	<3	15	<1	-	<0.5
300	301	.33	GC1173	<0.01	-	6	<3	13	<1	-	3
301	301.5	.34	GC1174	<0.01	-	2	<3	13	<1	-	6

LSDDH3

3. Camera Surveys

Hole	Depth (m)	Azimuth (AMG)	Dip
LSDDH3	6	293	45
LSDDH3	30	289	45
LSDDH3	62	283	46
LSDDH3	92	283	46
LSDDH3	122	282.5	45
LSDDH3	152	282	43
LSDDH3	182	282	42
LSDDH3	212	278	41.5
LSDDH3	242	279	40.5
LSDDH3	272	279	40
LSDDH3	300	279	39

4. Summary lithological log

Depth (m)	Lithology
0-62.5	Weathered schist comprising grey muscovite, albite porphyroblasts up to 2mm across, quartz, minor green chlorite. Scattered boudins of quartz-cream carbonate-minor chlorite.
62.5-106	Albite partially weathered, other minerals unweathered. Quartz-minor chlorite boudins and quartz-pink carbonate (rhodochrosite)-cream carbonate-minor chlorite boudins scattered throughout. Common tight fold closures from top of hole with S2 as axial surface. S2 is a spaced, crenulation clevage, usually with ~1mm mica segregation laminae. Compositional banding of 1-50mm, S1 and the common boudins are folded => predate S2.
106-116	Ditto. Albite fresh from 106 and usually pale pink in colour.
116-119.8	Marked increase in chlorite at expense of grey muscovite. More greyish-olive ?talc from here down.
119.8-233.3	Schist as above with variable, usually dominant chlorite. Very common folds 176.7-233.3, on S2.
233.3-237	Scattered, thin (20mm), massive, white bands comprising about 15% by volume of euhedral to subhedral quartz phenocrysts in a quartz and ?feldspar matrix. Phenocrysts up to 1.5mm, matrix very fine grained. Inter-banded with schist containing disseminated chalcopyrite. Texture of porphyry best displayed in bands from 233.3-233.75, bands isoclinally folded.
237-301.5	Chloritic schist with thin, felsic bands in the intervals 256.92-257.8, 259-261, 261.38-262.18, 266.84-270, 273-273.27. Texture poorly preserved.

Goldstream – Titan Corinna Joint Venture
DRILL LOGS

Hole I.D.: **RRDDH1**
Tenement: EL43/94
Prospect: Rocky River
AMG: 349810mE5389595mN
Azimuth: 270°AMG
Dip: 45°
Drill: LF70
Core: HQ to 23.5m
NQ to 349.5m
Contractor: Almac Drilling
Completed: 23/4/97

1. Geotechnical log

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
0.0	4.5	590	13	0	100+		
4.5	6.0	470	31	0	100+		
6.0	7.5	90	.06	0	100+		
7.5	9.0	810	54	0	100+		
9.0	10.5	760	51	13	100+		
10.5	12.0	550	37	0	100+		
12.0	13.5	120	.08	0	100+		
13.5	15.0	580	37	0	100+		
15.0	16.5	740	49	0	100+		
16.5	18.0	1250	83	9	50+		
18.0	19.5	1030	69	12	50+		
19.5	21.0	950	63	23	50+		
21.0	22.1	1100	100	49	32	5	27
22.1	23.5	1400	100	54	25	3	22
23.5	24.8	1070	152	0	25	9	16
24.8	25.5	580	83	0	15	7	8
25.5	28.5	2050	68	17	>50	>20	>30
28.5	30.6	1700	81	7	>50	>25	>25
30.6	31.5	850	94	16	16	8	8
31.5	34.5	1950	65	9	>50	>20	>30
34.5	37.5	2000	67	26	42	5	37
37.5	39.5	2000	100	26	33	1	32
39.5	40.5	1000	100	42	18	1	17
40.5	43.5	3000	100	27	51	4	47
43.5	46.5	2950	98	68	28	1	28
46.5	49.2	2400	89	39	48	3	45
49.2	52.4	2600	81	19	46	2	44
52.4	55.5	2900	94	26	52	3	49
55.5	58.5	2760	92	28	54	4	50
58.5	61.5	3000	100	67	32	1	31
61.5	67.5	5800	97	78	47	4	43
67.5	70.5	2770	92	57	44	5	39
70.5	73.2	2650	98	50	32	2	30
73.2	76.3	3100	100	47	40	2	28

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
76.3	78.4	2200	105	20	45	3	42
78.4	79.5	400	36	0	>50	>3	>47
79.5	83.5	2650	66	33	>50	>3	>47
83.5	85.5	0	0	0	-	-	-
85.5	87.5	1100	55	10	>50	>5	>45
87.5	88.5	920	92	32	15	1	14
88.5	91.5	2300	77	10	>100	>10	>90
91.5	94.5	3140	104	0	>50	>15	>85
94.5	97.5	60	2	0	-	-	-
97.5	100.5	1800	60	5	>50	>20	>30
100.5	103.5	3100	103	19	>100	>50	>50
103.5	106.5	2770	92	20	>100	>50	>50
106.5	109.5	500	17	30	12	10	2
109.5	112.5	1150	38	0	>50	>25	>25
112.5	115.5	2800	93	13	>75	>30	>35
115.5	118.3	2100	70	0	>100	-	-
118.3	121.4	3000	96	23	>75	>50	>25
121.4	124.5	1850	60	12	>75	>50	>25
124.5	127.5	1150	38	0	>50	-	-
127.5	130.5	900	30	0	>50	-	-
130.5	133.5	1525	51	0	>50	-	-
133.5	136.5	3025	100	16	>75	>35	30
136.5	139.5	2900	97	46	>50	>40	10
139.5	142.5	3110	103	55	35	12	23
142.5	145.5	3055	102	11	>75	58	>17
145.5	148.5	2980	99	27	56	30	26
148.5	151.5	2950	98	55	>50	34	16
151.5	154.5	3080	103	23	69	53	16
154.5	157.5	2835	95	70	24	15	9
157.5	160.5	3070	102	94	12	3	9
160.5	163.5	3030	101	60	38	15	23
163.5	166.5	2940	98	88	17	5	12
166.5	169.5	3045	101	60	30	11	19
169.5	172.5	2990	100	66	28	16	12
172.5	175.5	2730	91	27	50+	25+	25
175.5	178.5	2960	99	86	19	6	13
178.5	181.5	2945	98	88	13	3	10
181.5	184.5	3115	104	83	18	6	12
184.5	187.5	2965	99	87	12	7	5
187.5	190.5	3040	101	85	16	5	11
190.5	193.5	3025	101	93	13	4	9
193.5	196.5	2900	96	81	24	13	11
196.5	199.5	3000	100	96	9	2	17
199.5	202.5	2990	100	96	14	3	11
202.5	205.5	3040	101	87	20	2	18
205.5	208.5	2985	100	90	19	6	13
208.5	209.5	500	50	52	20+	-	-
209.5	211.5	2140	107	97	13	5	8
211.5	214.5	2990	100	73	21	8	13
214.5	217.5	2970	99	87	19	6	15
217.5	220.5	3025	101	82	15	6	9
220.5	223.5	2990	99	96	15	2	13

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
223.5	226.5	3040	100	99	14	3	11
226.5	229.5	3000	100	93	11	0	11
229.5	232.5	3090	100	98	12	0	12
232.5	235.5	2915	97	87	10	2	8
235.5	238.5	3010	100	100	14	2	12
238.5	241.5	3000	100	97	11	1	10
241.5	244.5	2825	94	90	14	1	13
244.5	247.5	3110	100	100	10	1	9
247.5	250.5	2950	98	97	10	2	8
250.5	253.5	3045	1	87	17	1	6
253.5	256.5	2950	98	89	16	6	10
256.5	259.5	2335	78	64	38	4	34
259.5	262.5	2975	99	85	17	4	13
262.5	265.5	3050	100	93	16	3	13
265.5	268.5	3000	100	94	16	4	12
268.5	271.5	2985	99	89	17	2	15
271.5	274.5	3000	100	86	22	5	17
274.5	277.5	3020	100	74	22	5	17
277.5	280.5	3000	100	97	14	2	12
280.5	283.5	3010	100	88	15	6	9
283.5	286.5	2910	97	75	28	3	25
286.5	289.5	2900	97	55	43	8	35
289.5	292.5	3000	100	90	20	4	16
292.5	295.5	3115	100	90	21	5	16
295.5	298.5	2685	89	55	65	20	45
298.5	301.3	3000	100	63	36	4	32
301.3	304.4	3055	98	89	20	7	3
304.4	307.5	3115	103	77	20	11	9
307.5	310.5	3045	101	76	18	4	14
310.5	313.5	3075	102	91	13	9	4
313.5	316.5	3295	110	94	15	7	8
316.5	319.5	2745	91	81	21	10	11
319.5	322.5	2885	96	78	18	7	11
322.5	323.8	1280	100	79	8	-	8
323.8	325.93	2100	100	0	>100		
325.93	328.3	2370	100	1	45	29	16
328.3	331.4	3090	100	54	>50	22	>28
331.4	334.5	3065	99	55	43	25	18
334.5	337.5	3080	103	50	>50	18	>22
337.5	340.5	3105	103	65	28	7	21
340.5	343.5	3040	101	75	26	16	10
343.5	346.5	3000	100	81	23	8	15
346.5	349.5	2900	97	72	18	9	9

2. Assay numbers = half core; magnetic susceptibility = average of top, middle, bottom of 1m intervals, measured on flat of split core.

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As
0	4		GC1175	<0.01	-	49	19	122	<1	-	9
4	5		GC1176	<0.01	-	36	24	180	<1	-	5
5	6		GC1177	<0.01	-	18	11	106	<1	-	<0.5
6	7.5		GC1178	<0.01	-	12	9	91	<1	-	<0.5
7.5	8	0.47	GC1179	<0.01	-	95	35	266	<1	-	7
8	9	0.30	GC1180	<0.01	-	48	21	181	<1	-	9
9	10	-	GC1181	<0.01	-	41	20	161	<1	-	<0.5
10	11	0	GC1182	<0.01	-	105	3	221	<1	-	11
11	12	0.35	GC1183	<0.01	-	122	4	232	<1	-	10
12	13.5	-	GC1184	<0.01	-	134	12	431	<1	-	5
13.5	14	0.42	GC1185	<0.01	-	92	23	318	<1	-	6
14	15	-	GC1186	<0.01	-	121	29	333	<1	-	1
15	16	0.50	GC1187	<0.01	-	80	14	467	<1	-	6
16	17	0.82	GC1188	<0.01	-	94	12	371	<1	-	4
17	18	0.71	GC1189	<0.01	-	88	36	284	<1	-	<0.5
18	19	0.68	GC1190	<0.01	-	76	23	408	<1	-	<0.5
19	20	0.75	GC1191	<0.01	-	78	8	358	2	-	5
20	21	0.98	GC1192	<0.01	-	72	6	399	2	-	2
21	22	0.70	GC1193	<0.01	-	79	13	290	2	-	<0.5
22	23	0.68	GC1194	<0.01	-	77	9	304	2	-	7
23	24	.75	GC1195	<0.01	-	86	8	275	2	-	3
24	25	.92	GC1196	<0.01	-	107	<3	334	2	-	4
25	26	.87	GC1197	<0.01	-	105	3	335	2	-	5
26	27	2.57	GC1198	<0.01	-	79	<3	385	2	-	<0.5
27	28	1.03	GC1199	<0.01	-	87	17	512	2	-	1
28	29	.88	GC1200	<0.01	-	99	35	705	2	-	3
29	30	1.05	GC1201	<0.01	-	73	43	604	2	-	7
30	31	.80	GC1202	<0.01	-	100	9	317	2	-	<0.5
31	32	.89	GC1203	<0.01	-	84	11	303	2	-	3
32	33	.91	GC1204	<0.01	-	108	<3	305	2	-	13
33	34	.66	GC1205	<0.01	-	98	<3	692	2	-	9
34	34.5	.67	GC1206	<0.01	-	102	<3	343	2	-	5
34.5	35	.67	GC1207	<0.01	-	77	29	322	2	-	4
35	36	.76	GC1208	<0.01	-	83	6	300	2	-	9
36	37	.47	GC1209	<0.01	-	41	8	108	2	-	5
37	38	.68	GC1210	<0.01	-	74	8	110	1	-	7
38	39	.71	GC1211	<0.01	-	96	8	78	1	-	2
39	40	.66	GC1212	<0.01	-	86	8	64	1	-	6
40	41	.60	GC1213	<0.01	-	82	7	79	1	-	5
41	42	.66	GC1214	<0.01	-	91	4	89	1	-	1
42	43	.62	GC1215	<0.01	-	87	<3	65	1	-	5
43	44	.68	GC1216	<0.01	-	78	<3	65	1	-	7
44	45	.61	GC1217	<0.01	-	72	<3	75	1	-	<0.5
45	46	.61	GC1218	<0.01	-	83	<3	90	1	-	<0.5
46	47	.61	GC1219	<0.01	-	71	<3	111	2	-	11
47	48	.75	GC1220	<0.01	-	106	<3	141	2	-	9
48	48.5	.68	GC1221	<0.01	-	88	<3	231	2	-	8
48.5	49	.68	GC1222	<0.01	-	51	60	271	1	-	9
49	49.4	.59	GC1223	<0.01	-	45	40	355	2	-	<0.5

49.4	50	.59	GC1224	<0.01	-	103	11	110	2	-	9
50	51	.73	GC1225	<0.01	-	71	4	99	2	-	15
51	52	.67	GC1226	<0.01	-	83	<3	163	2	-	3
52	52.7	.5	GC1227	<0.01	-	87	<3	244	2	-	5
52.7	53	.5	GC1228	<0.01	-	87	<3	268	2	-	6
53	54	.23	GC1229	<0.01	-	67	6	183	2	-	8
54	55	.28	GC1230	<0.01	-	26	7	218	1	-	7
55	56	.2	GC1231	<0.01	-	83	<3	155	1	-	2
56	56.4	.3	GC1232	<0.01	-	140	<3	178	1	-	1
56.4	57	.3	GC1233	<0.01	-	66	<3	184	2	-	10
57	58	.57	GC1234	<0.01	-	84	<3	108	2	-	9
58	59	.6	GC1235	<0.01	-	76	<3	70	1	-	8
59	60	.61	GC1236	0.02	-	58	<3	80	1	-	7
60	61	.66	GC1237	<0.01	-	57	4	103	1	-	7
61	62	.71	GC1238	<0.01	-	82	<3	83	1	-	1
62	63	.6	GC1239	<0.01	-	68	3	62	<1	-	6
63	64	.71	GC1240	<0.01	-	73	<3	63	1	-	4
64	65	.82	GC1241	<0.01	-	96	<3	70	1	-	3
65	66	.71	GC1242	<0.01	-	117	<3	78	1	-	1
66	67	.64	GC1243	0.03	-	50	<3	78	1	-	9
67	68	.68	GC1244	<0.01	-	80	<3	93	1	-	1
68	69	.57	GC1245	<0.01	-	77	<3	93	1	-	7
69	70	.56	GC1246	<0.01	-	82	4	169	1	-	8
70	71	.65	GC1247	<0.01	-	61	<3	82	1	-	4
71	72	.64	GC1248	0.01	-	94	3	87	1	-	<0.5
72	73	.65	GC1249	0.01	-	71	<3	103	1	-	2
73	74	.66	GC1250	<0.01	-	81	<3	143	1	-	4
74	75	.73	GC1251	<0.01	-	75	<3	203	<1	-	7
75	76	.53	GC1252	<0.01	-	83	<3	177	1	-	8
76	77	.86	GC1253	<0.01	-	89	<3	230	1	-	1
77	78	.66	GC1254	<0.01	-	81	<3	163	1	-	<0.5
78	79	.48	GC1255	<0.01	-	90	4	156	1	-	<0.5
79	80	.49	GC1256	<0.01	-	84	4	183	1	-	4
80	81	.41	GC1257	0.02	-	101	4	190	1	-	3
81	82	.47	GC1258	<0.01	-	64	9	154	1	-	7
82	83.15	.34	GC1259	<0.01	-	59	44	230	1	-	24
83.15	83.5	.28	GC1260	<0.01	-	68	3	211	1	-	16
83.5	85.5										
85.5	86	.54	GC1261	<0.01	-	96	<3	191	1	-	11
86	87	.59	GC1262	<0.01	-	142	<3	230	2	-	4
87	88	.56	GC1263	<0.01	-	64	4	98	1	-	13
88	89	.48	GC1264	0.06	-	97	7	93	1	-	<0.5
89	90	.52	GC1265	<0.01	-	73	8	89	1	-	5
90	90.7		GC1266	<0.01	-	213	3	182	1	-	10
90.7	91.4	.53	GC1267	<0.01	-	60	14	380	2	-	19
91.4	92	.54	GC1268	<0.01	-	104	39	247	2	-	19
92	93	.48	GC1269	<0.01	-	71	7	99	1	-	<0.5
93	94	.55	GC1270	<0.01	-	104	8	164	1	-	6
94	94.5	.5	GC1271	<0.01	-	54	7	103	1	-	1
94.5	97.5										
97.5	98	4.47	GC1272	<0.01	-	70	3	259	1	-	<0.5
98	99	.98	GC1273	<0.01	-	73	48	216	<1	-	3
99	100	5.26	GC1274	0.01	-	83	14	190	1	-	<0.5
100	101	1.95	GC1275	<0.01	-	75	14	486	1	-	<0.5
101	102	9.58	GC1276	<0.01	-	80	107	1213	1	-	1
102	103	19.03	GC1277	<0.01	-	86	75	1462	1	-	<0.5

103	104	5.46	GC1278	<0.01	-	68	14	1757	2	-	<0.5
104	105.2	2.97	GC1279	<0.01	-	100	18	438	2	-	<0.5
105.2	106	50.97	GC1280	0.09	0.12	2251	129	605	5	-	7
106	107	244.6	GC1281	0.09	-	1344	76	271	6	-	<0.5
107	108										
108	109.5										
109.5	110	.56	GC1282	<0.01	-	54	11	471	1	-	<0.5
110	110.7	.66	GC1283	<0.01	-	104	4	376	1	-	<0.5
110.7	112										
112.5	113	.38	GC1284	<0.01	-	70	<3	420	2	-	<0.5
113	114	.38	GC1285	<0.01	-	154	9	371	2	-	17
114	114.2	.3	GC1286	<0.01	-	35	<3	324	1	-	12
114.2	115	.3	GC1287	<0.01	-	32	3	192	1	-	<0.5
115	116	.16	GC1288	<0.01	-	40	3	162	<1	-	<0.5
116	117	.12	GC1289	<0.01	-	33	9	137	<1	-	<0.5
117	118	.12	GC1290	<0.01	-	23	6	138	<1	-	<0.5
118	119	.146	GC1291	<0.01	-	31	4	95	<1	-	2
119	120	.17	GC1292	<0.01	-	36	4	94	<1	-	1
120	121	.18	GC1293	<0.01	-	31	<3	73	<1	-	1
121	122	.166	GC1294	<0.01	-	38	5	81	<1	-	7
122	124.5	.25	GC1295	<0.01	-	27	7	122	<1	-	<0.5
124.5	125	.92	GC1296	<0.01	-	55	113	432	<1	308	-
125	127.5	.3	GC1297	<0.01	-	26	13	188	<1	-	13
127.5	128	.3	GC1298	<0.01	-	33	10	362	<1	-	<0.5
128	130.5	.18	GC1299	<0.01	-	14	12	290	<1	-	2
130.5	132	.41	GC1300	<0.01	-	66	6	354	<1	-	17
132	133	.24	GC1301	0.02	-	40	9	361	<1		12
133	133.5	.05	GC1302	<0.01	-	124	4	142	<1		23
133.5	133.85	.06	GC1303	<0.01	-	33	<3	115	<1		22
133.85	135		GC1304	<0.01	-	6	12	71	<1		11
135	135.65	.14	GC1305	<0.01	-	17	10	64	<1		4
135.65	136	.14	GC1306	<0.01	-	46	14	107	<1		17
136	137	.15	GC1307	0.01	-	20	19	114	<1		21
137	137.3	.09	GC1308	<0.01	-	22	12	118	<1		14
137.3	138	.09	GC1309	<0.01	-	3	10	69	<1		3
138	139	.14	GC1310	<0.01	-	11	6	66	<1		5
139	140	.20	GC1311	<0.01	-	82	8	77	1		10
140	141	.20	GC1312	<0.01	-	24	8	50	<1		4
141	142	.16	GC1313	<0.01	-	10	10	53	<1		2
142	143	.165	GC1314	<0.01	-	13	9	36	<1		8
143	144	.18	GC1315	<0.01	-	53	28	107	<1		5
144	145	.24	GC1316	<0.01	-	45	12	204	<1		3
145	146	.56	GC1317	<0.01	-	57	<3	140	<1		6
146	147	.29	GC1318	<0.01	-	61	6	113	<1		6
147	148	.66	GC1319	<0.01	-	282	<3	161	<1		14
148	148.5	1.56	GC1320	<0.01	-	319	7	196	<1		32
148.5	148.9	1.56	GC1321	<0.01	-	12	<3	50	<1		-
148.9	150	1.09	GC1322	<0.01	-	57	4	171	<1		39
150	151	144.27	GC1323	<0.01	<0.01	423	<3	57	<1		41
151	152	47.6	GC1324	<0.01	-	436	<3	70	<1		40
152	153	2.36	GC1325	<0.01	-	369	5	90	<1		17
153	154	3.86	GC1326	<0.01	<0.01	1210	6	87	<1		-
154	154.7	22.49	GC1327	<0.01	-	1062	15	53	<1		25
154.7	155	5.61	GC1328	0.04	-	1661	<3	45	<1		17
155	155.5	.99	GC1329	0.25	-	4503	7	54	<1		25
155.5	156.0	.99	GC1330	<0.01	-	514	9	142	<1		14

156.0	156.4	2.05	GC1331	<0.01	-	903	9	144	<1		13
156.4	156.8	2.05	GC1332	<0.01	-	265	11	95	<1		10
156.8	158	3.86	GC1333	<0.01	-	834	10	96	<1		3
158	159.00	7.12	GC1334	0.02	-	320	9	91	<1		7
159.00	159.4	15.32	GC1335	0.03	-	1365	<3	107	<1		2
159.4	159.55	15.32	GC1336	<0.01	-	105	4	28	<1		2
159.55	160.0	15.32	GC1337	<0.01	-	282	3	97	<1		4
160.0	160.7	.68	GC1338	0.01	-	503	<3	95	<1		6
160.7	161	.68	GC1339	0.01	-	471	4	83	<1		44
161	161.7	16.74	GC1340	0.02	-	263	6	120	<1		14
161.7	161.95	16.74	GC1341	0.08	-	539	11	94	<1		7
161.95	163	92.86	GC1342	0.03	-	275	9	98	<1		2
163	164	346.9	GC1343	0.04	-	1023	5	72	<1		2
164	164.45	67.12	GC1344	<0.01	-	137	15	88	<1		5
164.45	165.0	67.12	GC1345	<0.01	-	363	3	85	<1		39
165.0	165.4	291.9	GC1346	<0.01	-	251	4	69	<1		24
165.4	165.55	291.9	GC1347	0.03	-	1185	<3	29	<1		23
165.55	166.0	291.9	GC1348	0.01	-	467	<3	44	<1		17
166.0	167.0	0.49	GC1349	0.01	-	178	<3	60	<1		9
167.0	167.55	163.44	GC1350	0.05	-	198	3	97	<1		6
167.55	168	163.44	GC1351	0.08	-	975	11	83	<1		5
168	168.7	349.8	GC1352	0.03	-	114	23	82	<1		3
168.7	169.0	349.8	GC1353	<0.01	-	63	15	94	<1		11
169.0	169.25	28.04	GC1354	0.05	-	16	7	106	<1		5
169.25	170.0	28.04	GC1355	0.03	-	298	6	87	<1		9
170.0	170.3	2.48	GC1356	<0.01	-	7	8	34	<1		2
170.3	170.95	2.48	GC1357	<0.01	-	123	4	130	<1		3
170.95	171.75	1.61	GC1358	0.12	-	3368	8	63	<1		23
171.75	172	1.61	GC1359	0.02	-	621	12	164	<1		2
172	173	.7	GC1360	<0.01	-	78	12	121	<1		2
173	174	.41	GC1361	<0.01	-	22	17	129	<1		4
174	175	4.14	GC1362	<0.01	-	127	16	147	<1		3
175	176	9.75	GC1363	<0.01	-	130	<3	112	<1		4
176	177	7.24	GC1364	<0.01	-	86	<3	131	<1		3
177	178	15.18	GC1365	<0.01	-	41	<3	148	<1		1
178	179	10.40	GC1366	0.02	-	243	3	169	<1		<1
179	180	4.54	GC1367	<0.01	-	67	6	297	<1		7
180	181	3.19	GC1368	<0.01	-	57	9	247	<1		<1
181	182	2.45	GC1369	<0.01	-	91	6	170	<1		4
182	183	20.2	GC1370	0.04	-	88	14	228	<1		2
183	184	12.8	GC1371	<0.01	-	39	<3	337	<1		6
184	185	13.70	GC1372	0.01	-	56	<3	270	<1		<1
185	186	1.98	GC1373	<0.01	-	63	4	337	<1		2
186	187	4.64	GC1374	<0.01	-	56	<3	291	<1		8
187	188	7.83	GC1375	<0.01	-	39	<3	317	<1		2
188	189	7.30	GC1376	<0.01	-	117	6	312	<1		<1
189	190	4.79	GC1377	<0.01	-	52	<3	330	<1		4
190	191	1.99	GC1378	<0.01	-	50	4	253	<1		<1
191	192	2.1	GC1379	<0.01	-	84	9	215	<1		1
192	193	6.46	GC1380	<0.01	-	59	5	221	<1		2
193	194	17.06	GC1381	<0.01	-	33	6	180	<1		<1
194	195	23.2	GC1382	0.01	-	64	9	260	<1		<1
195	196	17.94	GC1383	<0.01	-	66	10	257	<1		1
196	197	39.03	GC1384	0.03	-	60	8	289	<1		6
197	198.1	14.17	GC1385	<0.01	-	59	10	234	<1		<1
198.1	199	18.3	GC1386	<0.01	-	57	11	212	<1		1

199	200	69.22	GC1387	<0.01	-	60	11	197	<1		2
200	200.9	21.12	GC1388	<0.01	-	51	9	179	<1		2
200.9	202	40.03	GC1389	<0.01	-	80	8	224	<1		9
202	203	14.06	GC1390	<0.01	-	85	<3	251	<1		1
203	204	21.13	GC1391	<0.01	-	67	<3	264	<1		2
204	205	22.5	GC1392	<0.01	-	63	5	210	<1		<1
205	206	51.86	GC1393	<0.01	-	53	<3	149	<1		6
206	207	35.46	GC1394	<0.01	-	54	<3	208	<1		2
207	208	15.26	GC1395	<0.01	-	68	<3	204	<1		3
208	209	13.74	GC1396	<0.01	-	90	<3	173	<1		7
209	209.5										
209.5	209.7	501.69	GC1397	<0.01	-	415	3	37	<1		4
209.7	210	501.69	GC1398	<0.01	-	173	11	134	<1		12
210	211	11.16	GC1399	<0.01	-	81	11	238	<1		3
211	212	27.9	GC1400	<0.01	-	61	<3	198	<1		<1
212	213	3.68	GC1401	<0.01	-	91	<3	237	<1		1
213	214	5.18	GC1402	<0.01	-	86	<3	192	<1		2
214	215	18.26	GC1403	<0.01	-	448	7	206	<1		3
215	216	14.14	GC1404	<0.01	-	497	5	184	<1		<1
216	217	30.66	GC1405	<0.01	-	224	4	193	<1		<1
217	218	19.33	GC1406	<0.01	-	691	<3	224	<1		2
218	219	25.93	GC1407	<0.01	-	184	10	257	<1		<1
219	220	23.43	GC1408	<0.01	-	83	6	292	<1		5
220	221	19.2	GC1409	0.06	-	1965	5	312	<1		2
221	222	14.7	GC1410	<0.01	-	100	3	257	<1		4
222	223	35.63	GC1411	<0.01	-	181	3	173	<1		4
223	224	39.53	GC1412	<0.01	-	315	<3	207	<1		6
224	225	69.86	GC1413	<0.01	-	475	6	167	<1		2
225	226	19.78	GC1414	<0.01	-	101	9	196	<1		4
226	227	101.83	GC1415	<0.01	-	65	19	203	<1		1
227	228	12.73	GC1416	<0.01	-	92	21	247	<1		5
228	229	24.17	GC1417	<0.01	-	66	6	243	<1		2
229	230	26.6	GC1418	<0.01	-	122	15	182	<1		4
230	231	14.5	GC1419	<0.01	-	106	14	226	<1		2
231	232	15.65	GC1420	<0.01	-	148	7	220	<1		5
232	233	13.2	GC1421	<0.01	-	85	8	174	<1		9
233	234	22.8	GC1422	<0.01	-	56	10	136	<1		6
234	235	60.6	GC1423	<0.01	-	495	11	149	<1		<1
235	236	17.36	GC1424	<0.01	-	52	12	203	<1		1
236	237	9.56	GC1425	<0.01	-	56	17	227	<1		11
237	238	15.56	GC1426	<0.01	-	170	15	187	<1		1
238	239	69.45	GC1427	<0.01	-	120	<3	194	<1		8
239	240	20.85	GC1428	<0.01	-	161	<3	175	<1		6
240	241	37.74	GC1429	<0.01	-	99	6	180	<1		<1
241	242	13.6	GC1430	<0.01	-	79	5	216	<1		3
242	243	18.7	GC1431	<0.01	-	73	12	281	<1		1
243	244	15.74	GC1432	<0.01	-	104	<3	246	<1		1
244	245	15.1	GC1433	<0.01	-	63	56	366	<1		3
245	245.95	12.3	GC1434	<0.01	-	54	24	453	<1		<1
245.95	246.29	25.2	GC1435	<0.01	-	67	<3	272	<1		1
246.29	247	15.26	GC1436	<0.01	-	65	29	514	<1		<1
247	248.14	15.76	GC1437	<0.01	-	71	20	416	<1		<1
248.14	248.48	107.46	GC1438	0.03	-	389	30	324	<1		<1
248.48	249	107.46	GC1439	0.03	-	72	7	249	<1		<1
249	250	43.1	GC1440	<0.01	-	65	13	219	<1		6
250	251	31.73	GC1441	<0.01	-	68	6	256	<1		3

251	251.52	7.32	GC1442	<0.01	-	90	7	302	<1		1
251.52	252	7.32	GC1443	<0.01	-	54	<3	200	<1		1
252	252.77	32.28	GC1444	<0.01	-	355	<3	184	<1		1
252.77	253	32.28	GC1445	<0.01	-	28	<3	168	<1		2
253	254	31.2	GC1446	<0.01	-	127	3	160	<1		1
254	255	35.26	GC1447	<0.01	-	96	7	203	<1		2
255	256	17.7	GC1448	<0.01	-	57	8	178	<1		3
256	256.75	34.7	GC1449	<0.01	-	60	9	141	<1		4
256.75	257	34.7	GC1450	<0.01	-	36	4	173	<1		<1
257	258	21.3	GC1451	<0.01	-	90	10	145	<1		4
258	259	32.8	GC1452	<0.01	-	62	14	255	<1		1
259	259.23	27.4	GC1453	<0.01	-	64	8	274	<1		<1
259.23	260	27.4	GC1454	<0.01	-	83	6	254	<1		3
260	261	27.1	GC1455	<0.01	-	57	<3	308	<1		1
261	262	24.3	GC1456	0.11	-	54	16	430	<1		<1
262	263	31.96	GC1457	<0.01	-	59	7	417	<1		1
263	263.96	32.23	GC1458	<0.01	-	58	5	345	<1		2
263.96	264.28	7.38	GC1459	0.06	-	79	<3	151	<1		2
264.28	265	7.38	GC1460	0.05	-	45	<3	230	<1		3
265	265.27	4.85	GC1461	<0.01	-	82	4	296	<1		<1
265.27	265.49	4.85	GC1462	<0.01	-	29	5	255	<1		6
265.49	266	4.85	GC1463	<0.01	-	72	3	189	<1		3
266	265.21?	34.55	GC1464	<0.01	-	78	<3	151	<1		<1
265.21?	266.68	34.55	GC1465	<0.01	-	527	<3	150	<1		8
266.68	267.19	34.55	GC1466	<0.01	-	66	<3	176	<1		1
267.19	267.86	51.3	GC1467	<0.01	-	67	<3	140	<1		<1
267.86	268.50	24.9	GC1468	<0.01	-	84	3	170	<1		2
268.50	268.81	24.9	GC1469	<0.01	-	37	28	150	<1		2
268.81	269.23	34.76	GC1470	<0.01	-	25	25	172	<1		1
269.23	269.65	34.76	GC1471	<0.01	-	60	31	230	<1		10
269.65	270	34.76	GC1472	<0.01	-	76	8	184	<1		9
270	270.67	28.8	GC1473	<0.01	-	148	<3	191	<1		3
270.67	270.89	28.8	GC1474	0.02	-	1650	<3	178	<1		16
270.89	271.74	4.45	GC1475	<0.01	-	104	<3	153	<1		<1
271.74	272	4.45	GC1476	<0.01	-	112	5	94	<1		7
272	272.27	7.36	GC1477	0.01	-	1939	<3	134	<1		12
272.27	273	7.36	GC1478	<0.01	-	924	4	177	<1		6
273	274	6.48	GC1479	<0.01	-	608	6	131	<1		7
274	275	5.19	GC1480	<0.01	-	112	8	140	<1		1
275	276	3.18	GC1481	0.12	-	47	<3	116	<1		3
276	277	1.64	GC1482	0.03	-	35	<3	123	<1		6
277	278	1.27	GC1483	0.01	-	25	<3	135	<1		4
278	279	2.14	GC1484	<0.01	-	44	<3	137	<1		4
279	280	1.53	GC1485	<0.01	-	88	<3	115	<1		3
280	281	3.98	GC1486	<0.01	-	26	<3	120	<1		7
281	281.44	12.22	GC1487	0.01	0.01	547	<3	117	<1		2
281.44	282	12.22	GC1488	<0.01	-	175	4	114	<1		14
282	283	7.50	GC1489	0.02	-	1638	<3	101	<1		20
283	283.61	3.39	GC1490	0.03	-	1167	<3	104	<1		25
283.61	284	3.39	GC1491	0.01	-	178	<3	124	<1		8
284	285	23.06	GC1492	<0.01	-	81	<3	114	<1		6
285	285.24	61.53	GC1493	<0.01	-	85	<3	127	<1		8
285.24	286	61.53	GC1494	0.02	0.03	581	<3	112	<1		32
286	286.5	34.3	GC1495	0.02	-	155	3	123	<1		20
286.5	286.88	34.3	GC1496	0.02	0.03	738	4	148	<1		4
286.88	288	124.5	GC1497	0.01	-	75	<3	103	<1		10

288	288.4	251.1	GC1498	0.04	-	417	<3	106	<1		<1
288.4	288.76	251.1	GC1499	<0.01	-	540	<3	78	<1		20
288.76	289	251.1	GC1500	0.02	-	2174	<3	81	<1		<1
289	290	115.4	GC1501	<0.01	-	304	<3	87	<1		4
290	291	138.5	GC1502	0.04	-	611	<3	85	<1		3
291	292	85	GC1503	0.03	-	356	<3	84	<1		3
292	293	84.6	GC1504	0.05	-	299	<3	88	<1		5
293	294	121.5	GC1505	0.03	-	1072	<3	91	<1		12
294	295	59.7	GC1506	0.04	-	572	<3	95	<1		6
295	296	176.6	GC1507	0.03	-	661	<3	92	<1		5
296	297	28.6	GC1508	0.06	0.06	429	<3	81	<1		13
297	298	71.46	GC1509	0.07	-	425	<3	90	<1		<1
298	299	57.4	GC1510	0.04	0.02	667	<3	97	<1		4
299	300	84.26	GC1511	0.05	-	431	<3	85	<1		4
300	300.64	155.8	GC1512	0.05	-	850	<3	95	<1		<1
300.64	300.95	155.8	GC1513	0.07	-	2307	<3	57	<1		23
300.95	302	66.83	GC1514	0.04	-	666	<3	132	<1		6
302	303	271.9	GC1515	0.04	0.03	578	<3	84	<1		5
303	304	135.13	GC1516	0.03	-	335	<3	96	<1		4
304	305	129.8	GC1517	0.02	-	257	<3	113	<1		<1
305	306	135	GC1518	0.04	-	152	<3	112	<1		1
306	307	84.83	GC1519	0.01	-	24	3	63	<1		3
307	308	105.16	GC1520	0.01	-	453	<3	94	<1		10
308	309	186.6	GC1521	0.01	-	780	<3	124	<1		9
309	310	123	GC1522	<0.01	-	238	<3	113	<1		2
310	311	83	GC1523	0.05	-	85	<3	146	<1		5
311	312	134	GC1524	0.06	-	24	<3	117	<1		6
312	313	88	GC1525	0.02	-	110	<3	128	<1		2
313	314	127	GC1526	0.03	-	47	<3	124	<1		<1
314	315	129	GC1527	0.01	-	16	<3	134	<1		2
315	316	104	GC1528	<0.01	-	8	<3	181	<1		<1
316	317	97	GC1529	<0.01	<0.01	5	<3	230	<1		<1
317	318	76.4	GC1530	<0.01	-	6	<3	219	<1		1
318	319	94.3	GC1531	<0.01	-	30	<3	186	<1		<1
319	320	59.75	GC1532	<0.01	-	14	<3	172	<1		<1
320	321	62.26	GC1533	0.02	-	5	<3	214	<1		<1
321	322	63.6	GC1534	0.01	0.02	3	<3	206	<1		1
322	323	123	GC1535	<0.01	-	8	<3	131	<1		3
323	324	122.36	GC1536	<0.01	<0.01	49	<3	138	<1		<1
324	325	23.29	GC1537	<0.01	-	13	3	125	<1		<1
325	326	28	GC1538	<0.01	-	37	<3	115	<1		5
326	327	123	GC1539	<0.01	-	22	<3	101	<1		4
327	328	207	GC1540	<0.01	-	13	<3	109	<1		2
328	329	162.6	GC1541	<0.01	-	5	<3	99	<1		<1
329	330	138	GC1542	<0.01	-	6	<3	114	<1		2
330	331	181.6	GC1543	<0.01	-	3	<3	97	<1		<1
331	332	124	GC1544	0.01	-	10	<3	111	<1		<1
332	333	254.6	GC1545	0.02	-	7	<3	84	<1		2
333	334	340.9	GC1546	0.02	-	14	7	90	<1		2
334	335	164	GC1547	<0.01	-	15	<3	130	<1		<1
335	336	181.6	GC1548	0.01	-	48	<3	100	<1		<1
336	337	368	GC1549	0.01	-	14	<3	82	<1		<1
337	338	215	GC1550	0.02	<0.01	16	<3	100	<1		1
338	339	259	GC1551	<0.01	-	38	<3	71	<1		1
339	340	174.1	GC1552	<0.01	-	40	<3	55	<1		3
340	341	279	GC1553	0.02	-	32	<3	42	<1		<1

341	341.4	337	GC1554	0.01	-	124	<3	30	<1		7
341.4	341.5	337	GC1555	<0.01	-	766	<3	39	<1		25
341.5	342	337	GC1556	<0.01	-	125	<3	72	<1		2
342	343	335	GC1557	<0.01	<0.01	49	<3	56	<1		<1
343	344	302	GC1558	<0.01	-	405	<3	69	<1		<1
344	345	295	GC1559	<0.01	0.02	223	<3	69	<1		1
345	346	364	GC1560	<0.01	-	132	4	66	<1		<1
346	347	281	GC1561	<0.01	<0.01	212	<3	64	<1		1
347	348	195	GC1562	<0.01	-	172	<3	64	<1		2
348	349	309	GC1563	<0.01	-	59	<3	114	<1		1
349	349.5	200	GC1564	<0.01	-	57	<3	78	<1		<1

3. Camera Surveys

Hole	Depth (m)	Azimuth (AMG)	Dip
RRDDH1	31.5	267	45
RRDDH1	61.5	262.5	45
RRDDH1	91.5	263	45
RRDDH1	121.5	263	45
RRDDH1	151.5	252	45
RRDDH1	181.5	261	41
RRDDH1	191.5	257	40
RRDDH1	220	263	39
RRDDH1	250	329	38.5
RRDDH1	280	269	36
RRDDH1	310	222	35.5
RRDDH1	?340	270	34.5
RRDDH1	349.5	307	34.5

Note: Azimuth readings affected by magnetic rocks.

4. Summary lithological log

Depth (m)	Lithology
0-7.5	Metasandstone & phyllite.
7.5-34.5	Metasandstone or metaigneous. Actinolite 21.1m.
34.5-35	Phyllite.
35-48.5	Metagabbro. Relict ferromagesian grains.
48.5-49.3	Phyllite.
49.3-52.7	Metasandstone or metaigneous.
52.7-56.4	Phyllite.
56.4-73	Metagabbro.
73-82	Sheared metagabbro. Altered towards bottom.
82-82.2	Pale grey carbonate = ?alteration.
82.2-83.15	Black mica-quartz rock & phyllite.
83.15-90.5	Metagabbro.
90.5-91.4	Shearing, phyllite, veinlets.
91.4-94.5	Metagabbro.
NO CORE	
97.5-98	Veinlets, carbonate = ?alteration.
98-105.2	Unknown rel. massive, granular, dark grey rock.
105.2-107	Banded, iron-rich unit - silicate, carbonate, magnetite, pyrite.
NO CORE	
109.5-114.6	?Metasandstone.
114.6-116.82	Phyllite.
116.82-125	Metasandstone, passes to phyllite after 120.04.
At c.125	12cm fault breccia.
125-133.5	Phyllite.
133.5-144.8	Metasandstone with phyllite bands, chlorite increasing.
At c.144.8	Oonah Formation/Bowry Formation - rapid transition.
144.8-204.95	Mafic schist (chlorite-actinolite-?talc-albite-garnet at 145.25 - disseminated & banded pyrite & magnetite). 160.6 to 164.8 banded silicate, magnetite, pyrite. Ditto 167.55-168.85 and 170.95-171.75.
	Note: 0-194 foliation of fairly uniform orientation, 194-245 common fold closures with axial surfaces = S2, 245-249.5 fairly uniform foliation.
204.95-264	Mafic schist similar to above but with common garnetiferous (pink = ?almandine) intervals, notable lightening of colour at 210.2 due increase in epidote and maybe talc. Garnet appears to occur mainly in darker, ?actinolitic bands. Minor magnetite.
264-322.5	Mafic schist similar above with sparse garnetiferous intervals to 307.25. Amount of magnetite increases - mostly disseminated, also scattered bands. Strong mafic/felsic segregation in places eg 278.24-279.4.
322.5-349.5	Banded silicate, magnetite, minor pyrite. No garnet.
	Note: Compositional banding of 1-30mm thickness is apparent throughout the mafic schist from 144.8 to 349.5. It is the form surface of the folds in the interval 194-245 => either original or related to S1.

254123

Goldstream – Titan Corinna Joint Venture
DRILL LOGS

Hole I.D.: **RRDDH2**
Tenement: EL43/94
Prospect: Rocky River
AMG: 349770mE5389810mN
Azimuth: 270°AMG
Dip: 45°
Drill: LF70
Core: HQ to 88m
NQ to 349.5m
Contractor: Almac Drilling
Completed: 13/5/97

1. Geotechnical log

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
0	3	160	5	-			
3	4.5	1000	66	-	20+		
4.5	6	1400	93	27	20+		
6	7.5	1000	66	-	40+		
7.5	9	250	17	-	100+		
9	10.5	1300	87	-	30+		
10.5	12	800	53	-	100+		
12	13.4	1000	71	20	100+		
13.4	14.9	350	23	-	100+		
14.9	16.4	800	53	15	20+		
16.4	17.9	1400	93	17	15+		
17.9	19.5	1500	94	55	45+		
19.5	21	400	27	-	100+		
21	22.5	200	13	-			
22.5	24	1100	73	14	40+		
24	25.5	600	40	20	50+		
25.5	27	600	40	25	50+		
27	28.5	800	53	74	20		
28.5	30	600	40	28	30+		
30	31.5						
31.5	33	70	5	-	10+		
33	34.5	800	53	-	100+		
34.5	36	250	17	-	100+		
36	37.5	650	43	35	20+		
37.5	39	1800	100+	50	30+		
39	40.5	400	27	58	20		
40.5	42	600	40	-	30+		
42	43.5	1250	83	48	20		
43.5	45	1400	93	42	100+		
45	45.9	900	100	31	40+		
45.9	47.6	1000	59	25	50+		
47.6	49.2	1000	62.5	16	40+		
49.2	50.7	1200	80	14	50+		
50.7	57	2200	35	5	100+		

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
57	58.5	1000	67	-	100+		
58.5	60	1400	93	22	50+		
60	61.5	800	53	23	100+		
61.5	63	800	53	26	100+		
63	64.5	1300	87	51	20+		
64.5	66	1000	67	26	50+		
66	67.5	1200	80	8	100+		
67.5	69	1200	80	27	100+		
69	70.5	900	60	-	50+		
70.5	72	600	40	30	50+		
72	73.5	1000	67	15	50+		
73.5	75	900	60	28	50+		
75	76.5	1200	80	-	100+		
76.5	77.2	900	128+	-	20+		
77.2	78	600	75	-	100+		
78	79.3	700	54	-	100+		
79.3	80.3	700	70	19	100+		
80.3	81	500	71	-	?		
81	82.2	600	50	-	100+		
82.2	83.7	1500	100	51	30+		
83.7	85.2	1500	100	68	20+		
85.2	86.4	1100	92	65	17		
86.4	88.5						
88.5	91.5	2940	98	53	33	30	3
91.5	94.5	3080	103	35	60+	40+	20
94.5	97.5	3000	100	50	41	24	17
97.5	100.2	2690	99.6	27	50+	40+	10
100.2	103.3	2955	105	68	37	21	14
103.3	106.5	3045	101.5	49	50+	28+	22
106.5	109.5	3075	102	67	25+	20+	5
109.5	112.5	3070	102	NIL	100+	-	-
112.5	115.5	2130	71	22	50+	50+	-?
115.5	118.5	2950	98	80	25	14	11
118.5	121.5	1600	53	39	50+	-	-
121.5	122.7	1050	87	12	16+	-	-
122.7	124.5	1740	96	64	16+	8	8
124.5	127.5	2890	96	81	28	15	13
127.5	130.5	3120	104	77	32+	21+	11
130.5	133.5	3000	100	80	18	10	8
133.5	136.5	2960	99	90	17	13	4
136.5	139.5	2975	97.5	25	60+	50+	10
139.5	142.5	3030	101	81	20	15	5
142.5	145.5	3020	100	95	21	15	5
145.5	148.5	3025	101	70	21	9	12
148.5	151.5	2790	93	67	34	21	13
151.5	154.5	3070	102	76	30	20	10
154.5	155.7	1200	100	13	50+	43+	7
155.7	157.9	1800	82	13	50+	-	-
157.9	160.5	2610	100	80	34+	24+	10
160.5	163.5	3040	102	91	20	13	7
163.5	166.5	2975	99	97	12	7	5
166.5	169.5	3015	100	86	16	11	5

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
169.5	172.5	2960	99	78	17	6	11
172.5	175.5	2980	99	80	16	5	11
175.5	178.5	3085	102	87	18	14	4
178.5	181.5	2975	99	85	24	8	16
181.5	184.5	3010	100	93	21	10	11
184.5	187.5	3075	103	95	11	-	11
187.5	190.5	3015	100	81	19	12	7
190.5	193.5	3000	100	91	14	5	9
193.5	196.5	3000	100	88	15	3	12
196.5	199.5	2950	98	91	15	6	11
199.5	202.5	2990	100	100	9	-	9
202.5	205.5	3045	101.5	87	12	6	6
205.5	208.5	3015	100	92	16	7	9
208.5	211.5	2980	100	100	12	6	6
211.5	214.5	2870	96	94	20	16	4
214.5	217.5	3070	102	49	50+	40+	10
217.5	219.9	2300	77	31	50+	?	?
219.9	223.5	3200	88	52	50+	40+	10
223.5	226.5	3000	100	92	45+	35+	10
226.5	229.5	1850	61	43	35+	30+	5
229.5	232	2250	90	40	50+	40+	10
232	234.4	2450	102	20	60+	45+	15
234.4	235.5	980	89	39	12	2	10
235.5	238.5	3020	101	87	19	9	10
238.5	241.5	3000	100	78	27	16	11
241.5	244.5	2820	94	52	50+	56+	4
244.5	247.5	2950	98	37	50+	56+	4
247.5	250.5	2910	97	79	33+	25+	8
250.5	253.5	2780	93	88	20+	12+	8
253.5	256.4	3000	103	71	21	14	7
256.4	259.5	3040	101	81	15	7	8
259.5	262.5	2920	97	69	26	11	15
262.5	265.5	2880	96	NIL	100+	-	-
265.5	268.5	3060	102	70	27	4	23
268.5	271.5	2960	98	89	19	8	11
271.5	274.5	2905	97	81	32+	13+	19
274.5	277.5	3115	104	79	24	8	16
277.5	280.5	3025	101	88	15	4	11
280.5	283.5	2885	96	52	38	27	11
283.5	286.5	3070	102	67	27	16	11
286.5	289.5	2995	100	81	16	7	9
289.5	292.5	3070	102	76	25	12	13
292.5	295.5	2875	95	87	18	8	10
295.5	298.5	3035	101	76	35	19	16
298.5	301.2	2615	97	67	75+	63+	12
301.2	304.3	3010	97	63	29	13	16
304.3	307.3	3000	100	58	51	26	24
307.3	310.3	3160	105	63	46	21	25
310.3	313.4	3100	100	62	40	5	35
313.4	316.5	3080	99	48	47	6	41
316.5	319.5	2850	95	62	50+	50+	10+
319.5	322.5	3000	100	96	21	1	20

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
322.5	325.5	2980	99	89	20	1	19
325.5	328.5	3130	104	82	23	2	21
328.5	331.5	2875	96	87	21	4	17
331.5	334.5	3045	102	92	19	1	18
334.5	337.5	2965	99	74.5	38	11	27
337.5	340.5	2945	98	67	41	6	35
340.5	343.5	3000	100	54	41	14	27
343.5	344.7	1245	104	59	9	2	7
344.7	346.5	1785	99	94	9	3	6
346.5	349.5	3000	100	99	7	2	5

2. Assay numbers = half core; magnetic susceptibility = average of top, middle, bottom of 1m intervals, measured on flat of split core.

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As
3	4	0.09	GC1798	<0.01		238	34	92	1	<50	<1
4	5	0.136	GC1799	<0.01		151	34	90	2	<50	<1
5	6	0.156	GC1800	<0.01		112	46	66	2	<50	2
6	7	0.033	GC1801	<0.01		101	36	58	1	<50	3
7	8	0.22	GC1802	<0.01		206	34	119	2	<50	<1
8	9	0.08	GC1803	<0.01		209	14	45	2	<50	4
9	10	.13	GC1804	<0.01		264	25	110	2	<50	5
10	11	.19	GC1805	<0.01		343	10	168	2	<50	1
11	12	.165	GC1806	<0.01		385	<3	115	2	<50	4
12	13	0.13	GC1807	<0.01		200	11	61	2	<50	3
13	14	.07	GC1808	<0.01		185	26	65	2	<50	1
14	15	.125	GC1809	<0.01		175	27	65	2	<50	4
15	16	.11	GC1810	<0.01		145	20	65	1	<50	2
16	17	.23	GC1811	<0.01		107	14	112	2	<50	7
17	18	.13	GC1812	<0.01		118	14	63	2	<50	2
18	19	.25	GC1813	<0.01		113	9	115	2	<50	11
19	20	.11	GC1814	<0.01		145	8	95	1	<50	11
20	21	.26	GC1815	<0.01		175	10	96	1	<50	5
21	22	.285	GC1816	<0.01		157	8	141	2	<50	3
22	23	.2	GC1817	<0.01		90	4	115	2	<50	<1
23	24	.253	GC1818	<0.01		95	<3	96	1	<50	3
24	25	.286	GC1819	<0.01		117	<3	103	2	<50	1
25	26	.286	GC1820	<0.01		278	3	110	2	<50	2
26	27	0.27	GC1821	<0.01		249	<3	130	2	<50	1
27	28	.26	GC1822	<0.01		135	<3	125	1	<50	6
28	29	.286	GC1823	<0.01		124	<3	135	1	<50	3
29	30	.02	GC1824	<0.01		147	31	362	1	<50	7
30	31	-	o Sample								
31	31.5	-	o Sample								
31.5	33		GC1826	<0.01		1273	33	275	6	238	-
33	34	.13	GC1828	<0.01		114	15	146	1	<50	<1
34	35	.29	GC1829	<0.01		192	26	126	1	<50	26
35	36	.04	GC1830	<0.01		127	26	70	2	<50	<1
36	37	.08	GC1831	<0.01		149	22	138	1	<50	5
37	38	.20	GC1832	<0.01		126	8	179	2	<50	<1
38	39	.22	GC1833	<0.01		129	4	183	1	<50	<1
39	40	.3	GC1834	<0.01		166	<3	200	2	<50	<1
40	41	.40	GC1835	<0.01		133	<3	246	2	<50	<1
41	42	.275	GC1836	<0.01		104	<3	137	2	<50	<1
42	43	.346	GC1837	<0.01		115	<3	127	1	<50	<1
43	44	0.43	GC1838	<0.01		175	<3	144	1	<50	1
44	45	0.24	GC1839	0.02		115	<3	165	1	<50	1
45	46	0.38	GC1840	<0.01		92	<3	125	1	<50	<1
46	47	0.40	GC1841	<0.01		119	<3	146	2	<50	1
47	48	0.41	GC1842	0.02		115	<3	170	2	<50	<1
48	49	0.39	GC1843	0.01		128	<3	136	1	<50	4
49	50	0.16	GC1844	<0.01		141	<3	157	1	<50	<1
50	51	0.38	GC1845	<0.01		185	<3	206	2	<50	<1
51	52	-	GC1846	0.02		120	3	213	2	<50	<1

52	53	-	GC1847	<0.01		108	<3	195	2	<50	3
53	54	-	GC1848	<0.01		256	<3	344	2	<50	3
54	55	0.55	GC1849	<0.01		71	15	1408	1	<50	4
55	56	0.49	GC1850	<0.01		91	15	1237	2	<50	2
56	57	0.43	GC1851	<0.01		68	8	762	2	<50	<1
57	58	0.47	GC1852	<0.01		102	9	1396	2	<50	3
58	59	0.47	GC1853	<0.01		90	18	837	2	<50	<1
59	60	0.19	GC1854	<0.01		116	<3	235	2	<50	<1
60	61	0.28	GC1855	<0.01		122	10	221	1	<50	5
61	62	0.34	GC1856	<0.01		922	75	169	2	<50	19
62	63	0.89	GC1857	0.03		1895	152	300	5	<50	4
63	64	0.21	GC1858	<0.01		250	206	215	2	<50	7
64	65	0.22	GC1859	<0.01		306	11	339	2	<50	1
65	66	0.14	GC1860	<0.01		280	5	225	2	<50	2
66	67	0.28	GC1861	<0.01		210	<3	188	2	<50	<1
67	68	0.30	GC1862	<0.01		112	<3	228	1	<50	<1
68	69	0.24	GC1863	<0.01		120	4	209	2	<50	<1
69	70	0.13	GC1864	<0.01		172	5	317	2	<50	4
70	71	0.25	GC1865	<0.01		207	5	254	2	<50	4
71	72	-	GC1866	<0.01		354	6	204	2	<50	<1
72	73	0.32	GC1867	<0.01		100	<3	201	1	<50	2
73	74	0.44	GC1868	<0.01		91	<3	160	2	<50	1
74	75	0.42	GC1869	<0.01		106	5	257	2	<50	8
75	76	0.20	GC1870	<0.01		188	<3	357	2	<50	5
76	77	-	GC1871	<0.01		425	4	403	2	<50	7
77	78	0.34	GC1872	<0.01		294	<3	364	2	<50	4
78	79	0.40	GC1873	<0.01		110	5	228	2	<50	2
79	80	0.27	GC1874	<0.01		128	7	215	1	<50	2
80	81	-	GC1875	<0.01		187	11	193	1	<50	<1
81	82	0.03	GC1876	<0.01		9	3	202	<1	<50	9
82	83	0.46	GC1877	<0.01		75	<3	216	1	<50	5
83	84	0.46	GC1878	<0.01		77	<3	178	1	<50	1
84	85	0.38	GC1879	<0.01		87	<3	204	1	<50	<1
85	86	0.65	GC1880	<0.01		75	<3	256	1	<50	1
86	88	.71	GC1881	<0.01		86	<3	236	1	<50	2
88	89	.55	GC1565	<0.01		66	<3	144	1	<50	<1
89	90	.52	GC1566	0.01		82	8	459	2	<50	1
90	91	.51	GC1567	0.01		84	9	112	2	<50	2
91	92	.5	GC1568	<0.01		72	3	279	2	<50	<1
92	93	.54	GC1569	<0.01		98	6	173	2	<50	<1
93	94	.51	GC1570	<0.01		85	<3	270	2	<50	2
94	95	.55	GC1571	0.01		93	<3	1882	1	<50	2
95	96	.48	GC1572	0.01		74	3	100	1	<50	1
96	97	.43	GC1573	<0.01		92	5	127	1	<50	4
97	98	.369	GC1574	0.01		87	<3	142	2	<50	<1
98	99	.36	GC1575	<0.01		89	<3	173	2	<50	1
99	100	.34	GC1576	<0.01		79	<3	195	2	<50	2
100	101	.45	GC1577	<0.01		70	7	192	2	<50	<1
101	102	.41	GC1578	<0.01		76	4	155	2	<50	<1
102	103	.29	GC1579	<0.01		92	3	198	2	<50	<1
103	104	.93	GC1580	<0.01		82	138	291	2	<50	1
104	105	.39	GC1581	<0.01		111	40	264	2	<50	<1
105	106	376	GC1582	0.01		436	33	341	3	<50	<1
106	107	364	GC1583	0.02		498	40	395	2	<50	2
107	108	.29	GC1584	<0.01		36	43	837	2	<50	<1
108	109	51	GC1585	<0.01		734	41	618	3	<50	1

109	110	12.62	GC1586	<0.01		354	25	328	2	<50	2
110	111	.27	GC1587	<0.01		309	15	152	2	<50	1
111	112	.58	GC1588	<0.01		83	3	42	2	<50	<1
112	113	.64	GC1589	<0.01		18	10	47	1	<50	<1
113	114	274.1	GC1590	<0.01		700	30	131	3	<50	<1
114	115	3.62	GC1591	<0.01		114	5	282	2	<50	<1
115	116	6.05	GC1592	<0.01		272	23	259	2	<50	<1
116	117	5.58	GC1593	<0.01		363	28	355	2	<50	<1
117	118	.55	GC1594	<0.01		295	22	469	2	<50	<1
118	119	.31	GC1595	<0.01		86	33	281	1	<50	<1
119	120	50.13	GC1596	<0.01		125	9	373	2	<50	21
120	121	60.06	GC1597	<0.01		51	<3	232	2	<50	3
121	122	31.13	GC1598	<0.01		459	<3	175	1	<50	<1
122	123	53.6	GC1599	<0.01		1440	<3	141	2	<50	3
123	124	19.9	GC1600	<0.01		78	<3	153	2	<50	<1
124	125	42.56	GC1601	<0.01		195	<3	167	2	<50	<1
125	126	62.26	GC1602	<0.01		269	<3	138	1	<50	<1
126	127	68.96	GC1603	<0.01		315	<3	135	1	<50	<1
127	128	85.53	GC1604	0.01		169	<3	142	2	<50	<1
128	129	102.5	GC1605	<0.01		1275	<3	172	2	<50	3
129	130	66.3	GC1606	0.01		1577	<3	152	2	<50	<1
130	131	65.36	GC1607	<0.01		1190	<3	184	1	<50	2
131	132	77.86	GC1608	<0.01		335	<3	146	1	<50	<1
132	133	71.5	GC1609	<0.01		41	<3	111	1	<50	4
133	134	76.13	GC1610	<0.01		1634	3	114	1	<50	4
134	135	69.33	GC1611	<0.01		50	<3	144	1	<50	3
135	136	44.96	GC1612	<0.01		122	<3	179	1	<50	2
136	137	31.76	GC1613	<0.01		67	<3	149	1	<50	1
137	138	13.1	GC1614	<0.01		18	<3	136	1	<50	<1
138	139	27.86	GC1615	<0.01		196	<3	108	2	<50	1
139	140	20.73	GC1616	<0.01		56	<3	85	2	<50	<1
140	141	27.43	GC1617	<0.01		172	<3	114	2	<50	<1
141	142	32.7	GC1618	<0.01		86	<3	90	2	<50	3
142	143	4.01	GC1619	<0.01		168	<3	93	2	<50	<1
143	144	19.59	GC1620	<0.01		137	<3	92	1	<50	<1
144	145	5.22	GC1621	<0.01		445	<3	76	2	<50	<1
145	146	19.06	GC1622	<0.01		84	<3	130	1	<50	<1
146	147	2.34	GC1623	<0.01		107	<3	143	1	<50	<1
147	148	1.05	GC1624	0.01		104	<3	215	2	<50	2
148	149	9.21	GC1625	<0.01		130	<3	128	1	<50	<1
149	150	8.62	GC1626	<0.01		93	<3	305	1	<50	<1
150	151	5.18	GC1627	0.01		103	4	202	1	<50	4
151	152	9.53	GC1628	<0.01		81	3	302	1	<50	1
152	153	1.83	GC1629	0.01		82	<3	195	1	<50	<1
153	153.9	10.07	GC1630	<0.01		102	<3	177	1	<50	4
153.9	154.1	11.1	GC1631	<0.01		18	<3	241	2	<50	<1
154.1	154.6	1.91	GC1632	<0.01		55	<3	244	2	<50	5
154.6	154.85	1.91	GC1633	<0.01		53	<3	204	1	<50	2
154.85	156	1.91	GC1634	<0.01		67	<3	245	1	<50	2
156	157	0.41	GC1635	0.4		62	17	295	2	<50	<1
157	158	1.90	GC1636	0.01		49	<3	120	1	<50	8
158	159	4.10	GC1637	<0.01		65	<3	180	2	<50	8
159	160	13.14	GC1638	<0.01		86	3	245	1	<50	2
160	161.18	19.20	GC1639	<0.01		56	<3	261	2	<50	3
161.18	161.73	0.48	GC1640	<0.01		147	5	102	1	<50	<1
161.73	162	0.48	GC1641	<0.01		58	<3	171	1	<50	3

162	162.66	0.71	GC1642	<0.01		72	9	147	1	<50	1
162.66	163	0.71	GC1643	<0.01		104	31	70	1	<50	<1
163	163.48	1.62	GC1644	<0.01		50	<3	121	<1	<50	<1
163.48	164	1.62	GC1645	<0.01		67	<3	201	1	<50	7
164	165	2.53	GC1646	<0.01		56	<3	244	2	<50	<1
165	166	4.92	GC1647	<0.01		91	4	278	2	<50	<1
166	167	8.01	GC1648	0.13		80	5	336	2	<50	<1
167	167.4	1.55	GC1649	0.5		88	41	260	2	<50	1
167.4	167.6	1.55	GC1650	0.01		18	10	228	1	<50	1
167.6	168	1.55	GC1651	<0.01		32	<3	347	1	<50	<1
168	169	17.70	GC1652	0.01		68	<3	424	1	<50	7
169	170	15.31	GC1653	<0.01		61	3	477	2	<50	2
170	171	8.31	GC1654	<0.01		51	<3	316	1	<50	<1
171	172	1.45	GC1655	<0.01		107	<3	349	2	<50	<1
172	173	12.01	GC1656	<0.01		67	<3	390	1	<50	2
173	174	25.40	GC1657	<0.01		75	<3	368	1	<50	3
174	175	30.60	GC1658	<0.01		65	<3	399	1	<50	<1
175	176	3.37	GC1659	<0.01		91	<3	307	2	<50	<1
176	177	15.90	GC1660	<0.01		42	<3	258	1	<50	<1
177	178	15.94	GC1661	<0.01		79	3	353	1	<50	2
178	179	8.98	GC1662	<0.01		40	<3	348	1	<50	4
179	179.19	7.75	GC1663	<0.01		70	7	171	1	<50	10
179.19	180.14	7.75	GC1664	<0.01		53	3	241	1	<50	<1
180.14	180.36	0.41	GC1665	<0.01		118	<3	175	2	<50	<1
180.36	181	0.41	GC1666	<0.01		50	<3	271	2	<50	1
181	182	0.39	GC1667	<0.01		72	<3	324	1	<50	3
182	183	5.17	GC1668	<0.01		72	13	448	1	<50	3
183	184	8.01	GC1669	<0.01		105	5	308	2	<50	6
184	185	14.04	GC1670	<0.01		73	4	391	2	<50	2
185	186	17.58	GC1671	<0.01		316	<3	228	2	<50	4
186	187	10.47	GC1672	<0.01		261	5	309	1	<50	4
187	188	22.20	GC1673	<0.01		90	4	318	1	<50	2
188	189	26.40	GC1674	<0.01		72	11	344	1	<50	1
189	190	24.63	GC1675	<0.01		63	7	360	1	<50	4
190	191	4.94	GC1676	<0.01		209	<3	349	1	<50	1
191	192	25.48	GC1677	<0.01		397	<3	315	2	<50	7
192	193	27.03	GC1678	<0.01		185	9	279	2	<50	4
193	194	13.37	GC1679	<0.01		122	3	302	1	<50	<1
194	195	12.72	GC1680	<0.01		68	5	366	1	<50	<1
195	196	10.76	GC1681	<0.01		84	6	273	1	<50	1
196	197	16.4	GC1682	<0.01		80	8	374	1	<50	12
197	198	7.56	GC1683	<0.01		87	3	317	1	<50	6
198	199	10.64	GC1684	<0.01		99	9	400	1	<50	4
199	200	9.7	GC1685	<0.01		69	9	443	1	<50	1
200	201	10.03	GC1686	<0.01		73	14	430	1	<50	6
201	202	21.53	GC1687	<0.01		57	9	695	1	<50	4
202	203	14.33	GC1688	<0.01		49	6	634	1	<50	6
203	204	20.86	GC1689	<0.01		73	14	712	X	<50	2
204	205	19.96	GC1690	<0.01		103	9	276	1	<50	4
205	206	19.49	GC1691	<0.01		72	6	429	1	<50	6
206	207	14.63	GC1692	<0.01		64	3	428	1	<50	4
207	208	22.46	GC1693	<0.01		68	4	444	1	<50	6
208	209	8.75	GC1694	<0.01		76	6	492	1	<50	<1
209	210	18.3	GC1695	<0.01		70	<3	432	1	<50	1
210	211	12.2	GC1696	<0.01		84	4	343	1	<50	3
211	212	4.62	GC1697	<0.01		65	3	221	1	<50	3

212	213	6.93	GC1698	<0.01		145	4	208	1	<50	3
213	214	16.73	GC1699	<0.01		188	4	379	1	<50	2
214	215	1.95	GC1700	<0.01		113	3	195	1	<50	4
215	216	4.52	GC1701	<0.01		142	4	204	1	<50	7
216	217	21.46	GC1702	<0.01		935	4	262	1	<50	7
217	218	4.92	GC1703	<0.01		163	5	214	1	<50	6
218	219	4.24	GC1704	<0.01		68	4	95	1	<50	5
219	220	2.47	GC1705	<0.01		136	7	183	2	<50	13
220	221	6.73	GC1706	<0.01		26	5	170	2	<50	5
221	222	16.37	GC1707	<0.01		120	7	123	2	<50	7
222	223	6.01	GC1708	<0.01		89	12	124	1	<50	5
223	224	12.34	GC1709	<0.01		1117	13	58	1	<50	11
224	225	145.33	GC1710	<0.01		602	11	98	2	<50	30
225	226	127.73	GC1711	<0.01		62	4	73	1	<50	8
226	227	4.74	GC1712	<0.01		23	5	103	1	<50	6
227	228	6.04	GC1713	<0.01		75	3	101	2	<50	1
228	229	1.71	GC1714	<0.01		35	6	126	2	<50	5
229	230	186.50	GC1715	<0.01		77	4	66	1	<50	17
230	230.35	-	GC1716	<0.01		45	6	46	2	<50	7
230.35	231	72.5	GC1717	<0.01		1782	11	33	1	<50	15
231	231.6	-	GC1718	0.01		466	7	55	1	<50	<1
231.6	232	25.3	GC1719	<0.01		385	<3	104	1	<50	1
232	233	16.05	GC1720	<0.01		681	8	123	2	<50	22
233	234	55.55	GC1721	<0.01		739	<3	76	2	<50	5
234	235	66.43	GC1722	<0.01		322	<3	107	2	<50	6
235	236	90.13	GC1723	<0.01		948	<3	85	1	<50	3
236	237	54.53	GC1724	<0.01		770	<3	114	1	<50	2
237	238	65.76	GC1725	<0.01		226	<3	124	1	<50	1
238	239	48.26	GC1726	<0.01		384	<3	135	1	<50	<1
239	240	57.13	GC1727	<0.01		902	<3	102	1	<50	6
240	241	38.83	GC1728	<0.01		200	<3	113	1	<50	2
241	242	100.13	GC1729	<0.01		138	6	117	1	<50	<1
242	243	76.30	GC1730	<0.01		484	<3	99	1	<50	2
243	244	46.90	GC1731	<0.01		21	<3	163	1	<50	<1
244	245	70.06	GC1732	<0.01		31	3	297	1	<50	<1
245	246	52.13	GC1733	<0.01		13	3	219	1	<50	1
246	247	46.63	GC1734	<0.01		17	11	141	1	<50	30
247	248	94.0	GC1735	<0.01		22	30	114	2	77	-
248	249	74.57	GC1736	<0.01		11	<3	125	1	<50	24
249	250	30.76	GC1737	<0.01		24	109	212	1	<50	35
250	251	83.96	GC1738	<0.01		10	29	174	1	<50	11
251	252	103.23	GC1739	<0.01		9	<3	132	1	<50	24
252	253	56.13	GC1740	<0.01		6	5	106	1	<50	7
253	254	103.86	GC1741	<0.01		6	<3	85	1	<50	<1
254	255	16.15	GC1742	<0.01		6	<3	68	1	<50	<1
255	256	152.13	GC1743	<0.01		10	<3	80	<1	<50	1
256	257	342.66	GC1744	<0.01		6	<3	78	1	<50	1
257	258	178.33	GC1745	<0.01		7	<3	83	<1	<50	3
258	259	236.33	GC1746	<0.01		6	4	74	<1	<50	3
259	260	218.66	GC1747	<0.01		9	<3	80	<1	<50	3
260	261	108.80	GC1748	0.37		43	9	81	<1	<50	3
261	262	159.63	GC1749	<0.01		10	<3	93	<1	<50	3
262	263	121.60	GC1750	<0.01		14	7	98	<1	<50	<1
263	264	4.79	GC1751	<0.01		16	<3	90	<1	<50	1
264	265	11.30	GC1752	<0.01		20	3	117	<1	<50	3
265	266	106.49	GC1753	<0.01		8	5	112	<1	<50	<1

266	267	123.29	GC1754	<0.01		17	8	93	<1	<50	3
267	268	23.49	GC1755	<0.01		9	10	104	<1	<50	10
268	269	59.40	GC1756	<0.01		10	12	110	<1	<50	8
269	270	96.76	GC1757	<0.01		10	6	102	<1	<50	<1
270	271	284.66	GC1758	<0.01		7	4	95	<1	<50	<1
271	272	195.06	GC1759	<0.01		11	8	110	<1	<50	2
272	273	224.66	GC1760	<0.01		5	<3	93	<1	<50	<1
273	274	208.0	GC1761	<0.01		6	<3	101	<1	<50	<1
274	275	249.33	GC1762	<0.01		5	3	117	<1	<50	<1
275	276	249.66	GC1763	<0.01		6	4	97	<1	<50	2
276	277	254.33	GC1764	<0.01		12	<3	98	<1	<50	<1
277	278	204.33	GC1765	<0.01		9	5	136	<1	<50	<1
278	279	316.0	GC1766	<0.01		15	<3	96	<1	<50	<1
279	280	372.33	GC1767	<0.01		12	<3	84	<1	<50	1
280	281	270.66	GC1768	<0.01		44	<3	95	<1	<50	16
281	282	182.96	GC1769	<0.01		36	20	81	<1	<50	39
282	283	145.12	GC1770	<0.01		35	12	110	<1	<50	<1
283	284	194.20	GC1771	<0.01		18	39	125	<1	<50	3
284	285	198.0	GC1772	<0.01		10	<3	86	<1	<50	2
285	286	313.0	GC1773	<0.01		27	5	62	<1	<50	<1
286	287	247.0	GC1774	<0.01		14	<3	58	<1	<50	2
287	288	409.0	GC1775	<0.01		18	<3	58	<1	<50	4
288	289	212.36	GC1776	<0.01		16	<3	73	<1	<50	3
289	290	232.33	GC1777	<0.01		21	<3	79	<1	<50	<1
290	291	175.66	GC1778	<0.01		36	<3	121	<1	<50	2
291	292	133.33	GC1779	<0.01		18	4	129	1	<50	<1
292	293	177.0	GC1780	<0.01		23	3	81	1	<50	<1
293	294	204.26	GC1781	<0.01		101	<3	89	1	<50	<1
294	295	158.03	GC1782	<0.01		147	<3	89	1	<50	6
295	296	124.6	GC1783	<0.01		20	<3	118	1	<50	<1
296	297	59.1	GC1784	<0.01		172	4	93	1	<50	<1
297	298	106.86	GC1785	<0.01		80	<3	140	1	<50	2
298	299	84.76	GC1786	<0.01		142	7	225	1	<50	<1
299	300	131.33	GC1787	<0.01		13	3	142	1	<50	1
300	301	94.33	GC1788	<0.01		20	4	113	1	<50	1
301	302	87.7	GC1789	<0.01		208	4	122	2	<50	<1
302	303	116.83	GC1790	<0.01		359	<3	145	2	<50	<1
303	304	102.33	GC1791	<0.01		148	7	186	2	<50	<1
304	305	67.16	GC1792	<0.01		129	8	205	2	<50	<1
305	306	26.46	GC1793	<0.01		70	5	158	1	<50	2
306	307	132.23	GC1794	<0.01		107	5	141	1	<50	3
307	308	115.16	GC1795	<0.01		233	3	123	2	<50	8
308	309	131.36	GC1796	<0.01		56	3	141	1	<50	3
309	310	125.23	GC1797	<0.01		11	4	137	1	<50	<1
310	311	117.5	GC1883	<0.01		56	<3	134	1	<50	5
311	312	121	GC1884	<0.01		85	<3	160	2	<50	4
312	313.17	71.9	GC1885	<0.01		162	<3	133	1	<50	21
313.17	313.35	182.8	GC1886	<0.01		31	<3	70	2	64	-
313.35	314	182.8	GC1887	<0.01		57	<3	115	2	<50	14
314	315.1	147.9	GC1888	<0.01		240	21	144	1	<50	18
315.1	315.26	327.6	GC1889	<0.01		24	<3	44	3	<50	8
315.26	316	327.6	GC1890	<0.01		29	<3	114	2	<50	26
316	317	225.6	GC1891	<0.01		145	<3	122	2	<50	<1
317	317.45	521.6	GC1892	<0.01		27	<3	112	2	<50	<1
317.45	318	521.6	GC1893	<0.01		1320	<3	47	2	<50	2
318	319	960	GC1894	0.02		1411	<3	12	2	<50	2

319	320	904.6+	GC1895	0.02		1054	<3	16	1	<50	2
320	321	860+	GC1896	0.02		334	6	15	1	<50	<1
321	321.37	626.6	GC1897	<0.01		660	<3	32	2	<50	7
321.37	322	626.6	GC1898	<0.01		1062	4	110	2	<50	<1
322	323	343.3	GC1899	<0.01		341	<3	104	2	<50	<1
323	324	317	GC1900	<0.01		131	<3	116	2	<50	4
324	325	259	GC1901	<0.01		150	<3	107	2	<50	1
325	326	306.3	GC1902	<0.01		92	<3	156	2	<50	<1
326	327	188	GC1903	<0.01		64	<3	66	1	<50	2
327	328	243.6	GC1904	<0.01		447	<3	60	1	<50	<1
328	329	190.6	GC1905	<0.01		164	<3	89	2	<50	2
329	330	148.9	GC1906	<0.01		147	<3	86	2	<50	1
330	331	151.6	GC1907	<0.01		319	<3	89	1	<50	3
331	332	145.4	GC1908	<0.01		263	<3	106	1	<50	3
332	333	83.6	GC1909	<0.01		211	<3	117	2	<50	2
333	334	10.7	GC1910	<0.01		205	<3	121	2	<50	7
334	334.95	51.8	GC1911	<0.01		79	11	176	2	<50	13
334.95	336	3.8	GC1912	<0.01		98	8	167	2	<50	36
336	337	131.3	GC1913	<0.01		393	<3	212	2	<50	42
337	338	144.7	GC1914	<0.01		129	3	162	2	51	-
338	339	130	GC1915	<0.01		156	6	228	1	<50	48
339	340	165.2	GC1916	<0.01		85	6	297	1	<50	36
340	341	24.7	GC1917	<0.01		42	9	641	1	<50	36
341	342	76.1	GC1918	<0.01		193	6	459	1	<50	7
342	343.1	78.6	GC1919	<0.01		67	4	853	1	<50	23
343.1	343.4	126.9	GC1920	<0.01		523	<3	1999	5	<50	33
343.4	344	126.9	GC1921	<0.01		79	3	1242	2	<50	7
344	345	35.7	GC1922	<0.01		57	4	1072	2	<50	<1
345	346	47.8	GC1923	<0.01		56	6	1409	2	<50	<1
346	347	39.9	GC1924	<0.01		51	4	1686	2	<50	<1
347	348	45.3	GC1925	<0.01		45	<3	892	2	<50	<1
348	349	12.6	GC1926	<0.01		52	<3	391	<1	<50	2
349	349.5	31.6	GC1927	<0.01		19	3	426	1	<50	<1

3. Camera Surveys

Hole	Depth (m)	Azimuth (AMG)	Dip
RRDDH2	30	263	48
RRDDH2	60	262	50
RRDDH2	94.5	253	50
RRDDH2	124	273	48
RRDDH2	154.5	264	44
RRDDH2	184.5	262.5	43
RRDDH2	214.5	264.5	43
RRDDH2	244.5	27	43
RRDDH2	274.5	253	42
RRDDH2	?304.3	224	41
RRDDH2	341.7	310	38

Note: Azimuth readings affected by magnetic rocks.

Goldstream – Titan Corinna Joint Venture
DRILL LOGS

Hole I.D.: **RRDDH3**
Tenement: EL43/94
Prospect: Rocky River
AMG: 349040mE5389970mN
Azimuth: 112°AMG
Dip: 45°
Drill: LF70
Core: HQ to 41.8m
NQ to 286.8m
Contractor: Almac Drilling
Completed: 4/6/97

1. Geotechnical log
Note: VCC = very crumbly core

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
2.7	3.3	0.6	100	NIL	100+	-	-
3.3	4.8	0.550	33	NIL	100+	-	-
4.8	6.3	NIL	NIL	NIL	-	-	-
6.3	7.8	0.300	20	NIL	VCC	-	-
7.8	9.3	0.200	13	NIL	VCC	-	-
9.3	10.80	0.230	15	NIL	VCC	-	-
10.80	12.30	0.400	27	NIL	VCC	-	-
12.30	13.80	0.550	37	NIL	VCC	-	-
13.80	15.30	0.100	1	NIL	VCC	-	-
15.30	16.80	0.250	17	NIL	VCC	-	-
16.80	18.30	0.600	40	NIL	VCC	-	-
18.30	19.20	900	100	NIL	VCC	-	-
19.20	20.10	900	100	NIL	VCC	-	-
20.10	21.30	1200	100	NIL	VCC	-	-
21.30	22.80	1000	100	NIL	VCC	-	-
22.30	22.80	500	100	NIL	VCC	-	-
22.80	24.20	1400	100	NIL	CC	-	-
24.20	24.90	500	29	NIL	VCC	-	-
24.90	25.90	1000	100	NIL	CC	-	-
25.90	26.80	900	100	49	50+	-	-
26.80	27.30	500	100	NIL	CC	-	-
27.30	27.90	500	100	NIL	CC	-	-
27.90	28.50	600	100	NIL	CC	-	-
28.50	30.00	1500	100	NIL	CC	-	-
30.00	30.80	800	100	NIL	CC	-	-
30.80	31.80	1000	100	NIL	50+	-	-
31.80	33.3	1500	100	13	50+	-	-
33.3	34.8	1400	93	35	20+	10	10+
34.8	36.3	1500	100	53	20+	10+	10
36.3	37.8	1500	100	67	10+	2+	8
37.8	39.3	1500	100	40	25+	15+	10
39.3	40.8	1500	100	87	12	6	6
40.8	41.8	1000	100	65	10+	3	7+
41.8	43.00	1000	83	NIL	30+	-	-

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
43.00	43.80	800	100	31	20+	15+	5
43.80	45.90	2100	100	52	30+	20+	10
45.90	46.80	900	100	39	10+	5+	5
46.80	48.70	1800	95	61	25+	15+	10
48.70	51.40	2600	96	70	25+	15	10
51.40	52.80	1400	100	71	15	5	10
52.80	55.60	2800	100	32	35+	25+	10
55.60	58.60	3000	100	67	30+	20+	10
58.60	61.80	3000	94	63	30+	20+	10
61.80	64.70	2600	90	85	15	10	5
64.70	67.80	3000	100	48	30+	15+	15
67.80	70.80	2770	92	7	50+	40+	10
70.80	72.3	600	40	NIL	VCC	-	-
72.3	73.8	1500	100	73	10	8	2
73.8	76.8	2840	95	58	50+	40+	10
76.8	79.8	2060	69	50	50+	30+	20
79.8	82.6	1740	62	17	50+	-	-
82.6	84.30	1300	76	46	40+	30+	10
84.30	85.80	1540	102	41	20+	10+	10
85.80	88.50	2550	95	16	50	20+	20
88.50	91.80	3000	110	69	25+	25+	10
91.80	94.8	2905	97	68	23	15	8
94.8	97.8	3030	101	63	35+	25+	10
97.8	100.5	2750	102	59	27+	15+	12
100.5	102.4	1890	99	37	22	9	13
102.4	104	1570	98	52	20+	11+	9
104	106.5	2800	112	NIL			
106.5	109.8	2930	98	20	13+	8+	5
109.8	111.4	1600	100	47	25+	20+	5
111.4	112.4	900	90	28	25+	20+	5
112.4	112.8	200	33	NIL	VCC	-	-
112.8	113.2	400	100	NIL	VCC	-	-
113.2	114.0	600	80	NIL	VCC	-	-
114.0	115.5	1400	93	NIL	VCC	-	-
115.5	118.8	3050	92	8	VCC	-	-
118.8	121.3	2500	100	11	VCC	-	-
121.3	124.4	2900	94	19	50+VCC	-	-
124.4	124.8	200	50	NIL	VCC	-	-
124.8	125.4	490	80	20	VCC	-	-
125.4	126.3	850	94	15	20+VCC	-	-
126.3	127.8	1455	97	72	10	1	9
127.8	130.8	3035	100+	83	25	3	22
130.8	133.8	3000	100	64	36	8	28
133.8	136.8	2865	95	67	28	4	24
136.8	139.8	3045	100+	86	20	0	20
139.8	142.8	2990	99	82	20	2	18
142.8	145.8	3040	100+	84	23	3	20
145.8	148.5	2680	99	57	33	0	33
148.5	151.2	2650	98	71	33	0	33
151.2	153.5	2275	99	83	24	1	23
153.5	154.8	1280	98	59	15	0	15
154.8	157.4	2500	96	47	100+	-	100+

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
157.4	160.5	2000	64	-	MILLIONS+	-	-
160.5	163.8	3200	97	40	50+	-	50+
163.8	166.8	3000	100	48	35+	-	35+
166.8	169.4	2700	100+	74	34	0	34
169.4	172.8	3280	96	68	48	0	48
172.8	173.9	1010	92	38	30+	-	30+
173.9	175.4	1500	100	61	30+	-	30+
175.4	176.5	950	86	35	30+	-	30+
176.5	178.8	2150	93	75	20+	-	20+
178.8	180.3	1400	93	84	20+	-	20+
180.3	181.8	1500	100	56	17	-	17
181.8	183.3	1300	87	16	40+	-	40+
183.3	184.8	1500	100	54	18	-	18
184.8	186.3	1400	93	28	20+	-	20+
186.3	187.5	1180	98	38	30+	-	30+
187.5	190.6	3100	100	63	40+	-	40+
190.6	193.7	2300	92	86	30+	-	30+
193.1	195.8	2700	100	78	25+	-	25+
195.8	196.8	970	97	52	20+	-	20+
196.8	199.7	2800	96	77	25	0	25
199.7	200.4	700	100	65	8	0	8
200.4	202.8	2380	99	71	25+	-	25+
202.8	204.4	1520	95	22	20+	-	20+
204.4	205.8	1450	111	51	20+	-	20+
205.8	208.8	3080	103	73	35	2	33
208.8	211.3	2500	100	84	20+	1	19+
211.3	214.4	3050	98	78	30+	1	29+
214.4	217.4	3130	104	79	28	3	25
217.4	220.5	3040	98	76	28	2	26
220.5	223.6	3065	99	96	15	-	15
223.6	226.7	3040	98	85	22	1	21
226.7	229.7	3080	103	83	24	2	22
229.7	232.8	3000	97	89	23	3	20
232.8	235.3	2510	100	89	18	2	16
235.3	238.2	2900	100	76	28	3	25
238.2	240.6	2300	96	30	15+	1	14+
240.6	241.4	800	100	37	50+	-	50+
241.4	243	1200	75	8	50+	-	50+
243	244.9	2300	121	15	50+	-	50+
244.9	246.9	2300	125	-	50+	-	50+
246.9	247.5	400	66	-	20+	-	20+
247.5	250.6	3060	98	84	23+	1	22+
250.6	251.7	1100	100	42	20+	-	20+
251.7	252.9	1350	112	30	50+	-	50+
252.9	253.6	850	113	12	20+	-	20+
253.6	256.4	2850	101	54	50+	-	50+
256.4	259.3	2900	100	50	50+	2	48+
259.3	262.4	3100	100	68	31	3	28
262.4	265.5	3140	101	86	18	2	16
265.5	268.6	3120	101	83	23+	2	21+
268.6	271.7	3080	99	88	16	1	15
271.7	274.8	3050	98	69	33	2	31

Driller's Markers							
From (m)	To (m)	Length (mm)	Recovery %	RQD %	Total Fractures	Fractures/ Joints	Induced Breaks
274.8	277.8	3070	102	84	18	2	16
277.8	280.8	2830	94	73	28	3	25
280.8	283.8	3040	101	88	17	3	14
283.8	286.8	2970	99	90	22	4	18

2. Assay numbers = half core; magnetic susceptibility = average of top, middle, bottom of 1m intervals, measured on flat of split core.

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As	Ag
2.7	3	.11	GC2250	0.01	-	37	<3	82	<1		<1	
3	4		GC2251	<0.01	-	33	<3	50	1		<1	
4	7.8	.025	GC2252	<0.01	-	49	<3	106	1		<1	
7.8	9.3	-	GC2253	<0.01	-	66	5	192	1		<1	
9.3	10.8	-	GC2254	<0.01	-	212	<3	98	1		1	
10.8	12	.08	GC2255	0.02	-	112	<3	16	<1		3	
12	13	.07	GC2256	<0.01	-	157	<3	23	<1		<1	
13	13.8	0.31	GC2257	<0.01	-	54	3	40	1		<1	
13.8	17	0.11	GC2258	0.01	-	83	10	123	<1		26	
17	18	0.12	GC2259	<0.01	-	51	5	77	<1		35	
18	19	1.69	GC2260	<0.01	-	26	<3	89	<1		<1	
19	20	6.87	GC2261	<0.01	-	49	<3	103	1		<1	
20	21	4.91	GC2262	<0.01	-	37	<3	51	1		<1	
21	22	1.92	GC2263	<0.01	-	43	<3	52	1		2	
22	23	15.42	GC2264	<0.01	-	62	<3	18	<1		<1	
23	24	0.56	GC2265	<0.01	-	51	12	44	<1		<1	
24	25	6.45	GC2266	<0.01	<0.01	44	7	33	<1		1	
25	26	89.26	GC2267	<0.01	-	4	66	95	<1		1	
26	27	141	GC2268	<0.01	<0.01	8	110	352	<1		<1	
27	28	92.63	GC2269	<0.01	-	10	117	111	<1		<1	
28	29	81.23	GC2270	0.04	0.05	83	152	215	2		10	
29	30	11.01	GC2271	<0.01	-	49	4	166	<1		<1	
30	31	5.44	GC2272	<0.01	-	14	30	65	<1		4	
31	32	0.6	GC2273	<0.01	-	16	10	50	<1		2	
32	33	0.29	GC2274	<0.01	-	20	<3	25	<1		10	
33	34	0.34	GC2275	<0.01	-	32	8	55	1		<1	
34	35	3.01	GC2276	<0.01	-	45	<3	77	1		<1	
35	36	17.4	GC2277	<0.01	-	65	<3	76	<1		<1	
36	37	7.46	GC2278	<0.01	-	65	<3	87	1		<1	
37	38	13.1	GC2279	<0.01	-	71	<3	70	<1		3	
38	39	46.08	GC2280	<0.01	-	76	<3	90	<1		3	
39	39.8	22.94	GC2281	<0.01	-	97	<3	43	<1		2	
39.8	40	22.94	GC2282	<0.01	-	686	3	71	<1		3	
40	40.3	20.23	GC2283	<0.01	-	598	<3	73	<1		4	
40.3	41	20.23	GC2284	<0.01	-	127	<3	112	<1		2	
41	41.4	2.9	GC2285	<0.01	-	418	<3	320	<1		6	
41.4	42	2.9	GC2286	<0.01	-	122	<3	301	<1		<1	
42	43	0.43	GC2287	<0.01	-	472	<3	815	<1		<1	
43	44	17.07	GC2288	<0.01	-	337	<3	208	<1		2	
44	45	11.23	GC2289	<0.01	<0.01	71	<3	69	<1		3	
45	46	5.46	GC2290	<0.01	-	83	<3	39	<1		<1	
46	47	2.67	GC2291	<0.01	<0.01	30	<3	42	<1		2	
47	48	2.83	GC2292	<0.01	-	369	<3	812	<1		6	
48	49	0.12	GC2293	<0.01	-	414	<3	1145	<1		9	
49	50	2.03	GC2294	<0.01	-	798	<3	921	<1		3	
50	51	18.56	GC2295	<0.01	-	276	<3	194	<1		<1	
51	52	15.03	GC2296	<0.01	-	54	<3	260	<1		5	
52	53	8.16	GC2297	<0.01	-	51	<3	210	<1		<1	
53	54.19	41.26	GC2298	<0.01	-	29	<3	155	<1		6	

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As	Ag
54.19	55	3.53	GC2299	<0.01	-	58	<3	121	<1		2	
55	56	13.58	GC2300	<0.01	-	90	<3	221	<1		5	
56	56.5	0.44	GC2301	<0.01	-	71	<3	207	<1		3	
56.5	56.84	0.44	GC2302	<0.01	-	219	<3	49	<1		2	
56.84	57.15	0.44	GC2303	<0.01	-	19	<3	48	<1		5	
57.15	58	60.10	GC2304	<0.01	-	27	<3	37	<1		5	
58	59	56.20	GC2305	<0.01	-	84	<3	39	<1		6	
59	59.78	23.20	GC2306	<0.01	-	164	<3	30	<1		<1	
59.78	60.13	23.20	GC2307	<0.01	-	73	<3	74	<1		3	
60.13	61	0.22	GC2308	<0.01	-	118	4	53	<1		6	
61	61.45	0.74	GC2309	<0.01	<0.01	600	<3	75	<1		5	
61.45	61.8	0.74	GC2310	<0.01	-	99	<3	55	<1		1	
61.8	62	0.74	GC2311	<0.01	-	49	5	41	<1		4	
62	63	0.29	GC2312	<0.01	-	786	4	83	<1		2	
63	64	0.26	GC2313	0.02	-	309	3	117	<1		4	
64	65	0.48	GC2314	<0.01	-	102	<3	88	<1		3	
65	66	0.18	GC2315	<0.01	<0.01	58	<3	85	<1		1	
66	67	0.17	GC2316	0.02		228	4	54	<1	-	1	
67	68	0.15	GC2317	0.02		3	7	11	<1	-	2	
68	69	3.24	GC2318	0.01		74	<3	46	<1	-	1	
69	70	21.65	GC2319	<0.01		48	<3	186	<1	-	3	
70	71	68.75	GC2320	<0.01		12	3	106	<1	-	1	
71	72	1.46	GC2321	0.02		158	<3	93	<1	-	4	
72	73	41.56	GC2322	<0.01		110	4	106	<1	-	4	
73	74	75.63	GC2323	<0.01		132	<3	278	<1	-	6	
74	75	29.56	GC2324	<0.01		34	<3	91	<1	-	4	
75	75.4	547.9	GC2325	<0.01		96	4	93	<1	-	1	
75.4	76	547.9	GC2326	0.01		985	<3	62	<1	-	4	
76	77	932+	GC2327	0.01		1339	<3	105	<1	-	1	
77	78	969.33+	GC2328	<0.01		1278	<3	113	<1	-	2	
78	79.8	693.66+	GC2329	0.02		774	<3	109	<1	-	1	
79.8	81	-	GC2330	0.01		1006	<3	42	<1	-	5	
81	82	49.23	GC2331	<0.01		52	3	33	<1	-	4	
82	83	124.34	GC2332	0.01		103	<3	61	<1	-	3	
83	84	64.70	GC2333	<0.01		64	4	85	<1	-	<1	
84	85	47.70	GC2334	<0.01		17	5	79	<1	-	2	
85	86	40.96	GC2335	<0.01		17	4	67	<1	-	2	
86	87	49.44	GC2336	<0.01		225	6	137	<1	-	<1	
87	88	15.8	GC2337	<0.01		186	9	48	<1	-	<1	
88	89	54.26	GC2338	<0.01		418	9	102	<1	-	<1	
89	90	62.9	GC2339	<0.01		103	3	245	<1	-	<1	
90	91	27.36	GC2340	<0.01		66	4	158	<1	-	3	
91	92	33.8	GC2341	<0.01		39	4	137	<1	-	2	
92	93	18.46	GC2342	<0.01		69	4	143	<1	-	4	
93	94	92.83	GC2343	<0.01		24	<3	130	<1	-	3	
94	95	63.03	GC2344	<0.01		20	<3	90	<1	-	2	
95	96	69.56	GC2345	<0.01		83	<3	86	<1	-	<1	
96	97	39.97	GC2346	<0.01		56	<3	235	<1	-	<1	
97	98	76.66	GC2347	<0.01		266	<3	211	<1	-	3	
98	99	40.93	GC2348	<0.01		15	<3	160	<1	-	6	
99	100	19.42	GC2349	<0.01		130	3	179	<1	-	1	
100	101	3.88	GC2350	<0.01		110	6	351	<1	-	<1	

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As	Ag
101	102	57.57	GC2351	<0.01		40	7	315	<1	-	6	
102	103	70.76	GC2352	<0.01		118	<3	191	<1	-	8	
103	104	72.63	GC2353	<0.01		19	<3	85	<1	71	>50	
104	105	16.79	GC2354	<0.01		9	8	29	<1	54	>50	
105	106	176.81	GC2355	<0.01		11	6	35	<1	-	31	
106	107	19.13	GC2356	0.05		10	<3	47	<1	77	>50	
107	108	186.96	GC2357	0.04		14	<3	44	<1	80	>50	
108	109	19.01	GC2358	0.03		17	<3	73	<1	-	40	
109	110	32.20	GC2359	0.03		17	<3	82	<1	-	28	
110	111	13.67	GC2360	0.02		16	15	130	<1	-	29	
111	112	80.13	GC2361	0.02		24	3	43	<1	51	>50	
112	113	0.67	GC2362	0.02		39	<3	57	<1	127	>50	
113	114	65.35	GC2363	0.01		85	<3	59	<1	201	>50	
114	115	-	GC2364	0.02		92	<3	52	<1	-	32	
115	116	21.1	GC2365	0.03		245	<3	57	<1	-	12	
116	117	18.51	GC2366	0.01	<0.01	82	6	38	<1	-	50	
117	118	1.50	GC2367	0.01	<0.01	30	10	50	<1	-	13	
118	119	22.63	GC2368	0.01	<0.01	56	3	60	<1	-	26	
119	120	.40	GC2369	<0.01	-	744	5	43	<1	52	>50	
120	121	.08	GC2370	<0.01	-	52	3	44	<1	-	37	
121	122	.09	GC2371	<0.01	-	42	<3	39	<1	-	<1	
122	123	.13	GC2372	<0.01	-	19	3	19	<1	-	23	
123	124	1.65	GC2373	<0.01	-	82	6	21	<1	-	76	
124	125	48.62	GC2374	<0.01	<0.01	57	10	20	<1	188	>50	
125	126	.24	GC2375	<0.01	<0.01	24	10	15	<1	66	>50	
126	127	14.66	GC2376	<0.01	-	59	5	27	<1	-	15	
127	128	6.88	GC2377	<0.01	-	53	4	49	<1	-	<1	
128	129	26.72	GC2378	<0.01	-	89	3	24	<1	-	<1	
129	130	42.51	GC2379	<0.01	-	105	4	9	<1	-	<1	
130	131	9.45	GC2380	<0.01	-	61	5	6	<1	-	37	
131	132	3.01	GC2381	<0.01	-	56	5	52	<1	-	10	
132	133	.75	GC2382	<0.01	-	54	3	33	<1	-	39	
133	134	.56	GC2383	<0.01	-	49	9	29	<1	-	49	
134	135	2.11	GC2384	<0.01	-	14	7	22	<1	-	31	
135	136	13.2	GC2385	<0.01	-	70	8	35	<1	-	<1	
136	137	.85	GC2386	0.01	-	52	8	8	<1	-	<1	
137	138	5.46	GC2387	<0.01	-	21	4	11	<1	-	<1	
138	139	15.62	GC2388	0.01	-	7	5	7	<1	-	<1	
139	140	3.10	GC2389	0.01	-	8	7	6	<1	-	7	
140	141	2.17	GC2390	0.01	-	167	6	78	<1	-	26	
141	142	7.18	GC2391	0.3	-	42	7	31	<1	-	45	
142	143	86.23	GC2392	0.02	-	10	5	12	<1	-	39	
143	144	43.0	GC2393	0.04	-	10	10	12	<1	-	2	
144	145	42.65	GC2394	0.03	-	55	8	46	<1	-	<1	
145	146	31.63	GC2395	0.09	0.11	38	13	43	<1	-	<1	
146	147	47.20	GC2396	<0.01	-	50	<3	53	<1	58	>50	-
147	148	32.53	GC2397	<0.01	-	79	<3	55	<1	-	40	-
148	149	44.16	GC2398	<0.01	-	185	<3	75	<1	-	28	-
149	150	29.33	GC2399	<0.01	-	91	<3	105	<1	-	16	-
150	151	20.18	GC2400	<0.01	-	78	3	55	<1	-	3	-
151	152	89.37	GC2401	<0.01	-	100	4	48	<1	-	3	-
152	153	37.60	GC2402	<0.01	-	152	3	53	<1	-	5	-

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As	Ag
153	154	39.73	GC2403	<0.01	-	166	3	71	<1	-	10	-
154	155	38.17	GC2404	<0.01	<0.01	116	6	71	<1	-	49	-
155	156	14.55	GC2405	<0.01	<0.01	119	<3	81	<1	-	31	-
156	157	153.20	GC2406	<0.01	-	68	<3	89	<1	-	17	-
157	158	6.76	GC2407	<0.01	-	43	<3	85	<1	-	21	-
158	159	-	GC2408	<0.01	-	45	<3	68	<1	-	32	-
159	160	-	GC2409	<0.01	-	41	3	69	<1	108	>50	-
160	161	2.52	GC2410	<0.01	-	32	<3	71	<1	110	>50	-
161	162	3.41	GC2411	<0.01	-	17	<3	66	<1	-	43	-
162	163	17.12	GC2412	<0.01	-	41	<3	69	<1	-	4	-
163	164	26.94	GC2413	<0.01	-	50	<3	54	<1	-	9	-
164	165	11.66	GC2414	<0.01	<0.01	67	<3	70	<1	-	15	-
165	166	24.46	GC2415	<0.01	-	136	<3	75	<1	-	11	-
166	167	63.56	GC2416	<0.01	-	80	<3	83	<1	-	25	-
167	168	46.12	GC2417	<0.01	-	34	<3	68	<1	54	>50	-
168	169	2.83	GC2418	<0.01	-	32	<3	69	<1	-	37	-
169	170	53.20	GC2419	<0.01	-	66	<3	90	<1	-	19	-
170	171	27.87	GC2420	<0.01	<0.01	56	<3	87	<1	-	<1	-
171	172	7.20	GC2421	<0.01	-	35	<3	88	<1	-	5	-
172	173	26.13	GC2422	<0.01	-	41	<3	125	<1	-	2	-
173	174	34.70	GC2423	<0.01	-	35	<3	116	<1	-	45	-
174	175	35.13	GC2424	<0.01	-	38	<3	110	<1	53	>50	-
175	176	13.33	GC2425	<0.01	-	104	<3	136	<1	-	23	-
176	177	18.41	GC2426	<0.01	-	89	<3	127	<1	-	8	-
177	178	33.15	GC2427	<0.01	-	105	<3	129	<1	-	12	-
178	179	57.36	GC2428	<0.01	-	131	5	126	<1	-	1	-
179	180	54.83	GC2429	<0.01	<0.01	51	<3	188	<1	-	3	-
180	181	48.80	GC2430	<0.01	-	31	7	203	<1	64	>50	-
181	182	43.13	GC2431	<0.01	-	91	7	593	<1	-	39	-
182	183	63.06	GC2432	<0.01	-	34	4	189	<1	-	22	-
183	184	93.86	GC2433	<0.01	-	78	<3	319	<1	-	2	-
184	185	115.33	GC2434	<0.01	-	25	<3	157	<1	-	5	-
185	186	92.93	GC2435	<0.01	-	15	<3	186	<1	-	6	-
186	187	128.20	GC2436	<0.01	-	15	<3	180	<1	-	12	-
187	188	86.13	GC2437	<0.01	-	30	<3	172	<1	54	>50	-
188	189	17.00	GC2438	<0.01	-	12	<3	102	<1	-	46	-
189	190	35.16	GC2439	<0.01	-	19	<3	80	<1	-	3	-
190	191	21.50	GC2440	<0.01	<0.01	16	<3	62	<1	68	>50	-
191	192	66.20	GC2441	0.01	-	18	<3	61	<1	-	38	-
192	193	77.00	GC2442	<0.01	-	7	<3	83	<1	-	12	-
193	194	39.46	GC2443	<0.01	-	63	<3	95	<1	-	<1	-
194	195	37.80	GC2444	<0.01	-	15	<3	76	<1	-	<1	-
195	196	59.86	GC2445	<0.01	-	10	<3	102	<1	-	<1	-
196	197	71.04	GC2446	<0.01	<0.01	19	<3	95	<1	53	>50	-
197	198	102.16	GC2447	<0.01	-	28	<3	86	<1	-	27	-
198	199	21.89	GC2448	<0.01	-	25	<3	55	<1	-	<1	-
199	200	31.36	GC2449	0.01	<0.01	43	3	61	<1	-	<1	-
200	201	85.60	GC2450	0.01	-	11	<3	95	<1	-	42	-
201	202	56.44	GC2451	0.01	-	7	<3	70	<1	-	47	-
202	203	65.07	GC2452	<0.01	-	18	5	57	<1	-	21	-
203	204	125.00	GC2453	0.01	-	10	3	65	<1	-	10	-
204	205	51.89	GC2454	0.06	0.07	14	<3	62	<1	52	>50	-

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As	Ag
205	206	33.76	GC2455	0.02	-	68	<3	89	<1	-	9	-
206	207	24.42	GC2456	0.01	<0.01	10	<3	64	<1	-	8	-
207	208	29.27	GC2457	0.01	-	7	<3	45	<1	-	6	-
208	209	45.73	GC2458	0.01	-	25	<3	67	<1	-	<1	-
209	210	40.66	GC2459	<0.01	-	20	<3	54	<1	-	19	-
210	211	27.46	GC2460	<0.01	-	7	<3	65	<1	71	>50	-
211	212	51.03	GC2461	<0.01	-	24	<3	106	<1	-	38	-
212	213	55.00	GC2462	<0.01	-	37	<3	125	<1	-	15	-
213	214	3.73	GC2463	<0.01	-	18	<3	37	<1	-	3	-
214	215	36.56	GC2464	<0.01	-	21	<3	64	<1	-	8	-
215	216	16.73	GC2465	<0.01	-	16	3	37	<1	-	5	-
216	217	0.77	GC2466	<0.01	-	27	<3	32	<1	-	4	-
217	218	21.09	GC2467	<0.01	<0.01	40	<3	39	<1	-	5	-
218	219	29.90	GC2468	<0.01	-	39	<3	35	<1	-	8	-
219	220	70.43	GC2469	0.01	-	51	<3	69	<1	54	>50	-
220	221	24.31	GC2470	0.02	-	22	<3	47	<1	-	25	-
221	222	95.00	GC2471	<0.01	-	23	<3	76	<1	-	3	-
222	223	54.00	GC2472	<0.01	-	33	<3	70	<1	-	<1	-
223	224	51.06	GC2473	<0.01	-	90	<3	77	<1	-	<1	-
224	225	46.96	GC2474	<0.01	-	86	<3	85	<1	-	8	-
225	226	52.66	GC2475	<0.01	<0.01	118	<3	71	<1	-	4	-
226	227	118.10	GC2476	<0.01	<0.01	48	<3	104	<1	69	>50	-
227	228	86.30	GC2477	<0.01	-	120	<3	147	<1	61	>50	-
228	229	50.65	GC2478	<0.01	-	24	<3	89	<1	-	37	-
229	230	61.06	GC2479	0.01	<0.01	27	<3	82	<1	-	15	-
230	231	68.56	GC2480	<0.01	-	52	<3	79	<1	-	8	-
231	232	119.30	GC2481	<0.01	-	19	<3	60	<1	-	<1	-
232	233	195.10	GC2482	<0.01	-	35	<3	80	<1	-	20	-
233	234	57.80	GC2483	0.01	-	67	<3	92	<1	102	>50	-
234	235	38.30	GC2484	<0.01	-	90	5	96	<1	87	>50	-
235	236	32.40	GC2485	<0.01	<0.01	42	<3	93	<1	-	50	-
236	237	20.47	GC2486	<0.01	<0.01	21	<3	53	<1	-	20	-
237	238	14.56	GC2487	<0.01	-	13	<3	20	<1	-	6	-
238	239	15.63	GC2488	<0.01	-	33	<3	101	<1	-	7	-
239	240	0.63	GC2489	<0.01	-	25	<3	57	<1	-	11	-
240	241	30.23	GC2490	<0.01	<0.01	19	7	57	<1	71	>50	-
241	242	0.16	GC2491	<0.01	-	10	7	47	<1	136	>50	-
242	243	0.18	GC2492	<0.01	-	87	34	52	<1	123	>50	-
243	244	0.22	GC2493	<0.01	-	63	8	61	<1	69	>50	-
244	245	0.27	GC2494	<0.01	-	9	6	64	<1	-	7	-
245	246	0.24	GC2495	<0.01	-	7	<3	64	<1	-	<1	-
246	247	0.32	GC2496	<0.01	-	23	<3	64	<1	-	7	-
247	247.6	-	GC2497	<0.01	-	12	<3	80	<1	-	1	-
247.6	248	29.00	GC2498	<0.01	-	13	<3	92	<1	-	<1	-
248	249	12.07	GC2499	<0.01	-	17	<3	73	<1	95	>50	-
249	250	1.00	GC2500	<0.01	-	35	4	58	<1	104	>50	-
250	251.2	94.72	GC2501	<0.01	-	50	<3	90	<1	62	>50	-
251.2	251.6	354.16	GC2502	<0.01	-	1136	<3	44	<1	-	49	-
251.6	252	354.16	GC2503	<0.01	-	415	<3	78	<1	-	<1	-
252	253	111.50	GC2504	<0.01	<0.01	209	3	71	<1	83	>50	-
253	253.7	268.53	GC2505	<0.01	-	151	16	74	<1	77	>50	-
253.7	254	268.53	GC2506	<0.01	-	335	64	46	<1	63	>50	-

Depth From (m)	To (m)	Magnetic Susceptibility	Assay Number	Au	Au(R)	Cu	Pb	Zn	Ag	As	As	Ag
254	255	58.23	GC2507	<0.01	-	67	<3	86	<1	-	4	-
255	256	50.60	GC2508	<0.01	-	105	<3	82	<1	-	<1	-
256	256.8	31.86	GC2509	<0.01	-	73	<3	100	<1	-	<1	-
256.8	258	1..02	GC2510	<0.01	-	13	<3	93	<1	-	<1	-
258	259	31.13	GC2511	<0.01	-	35	<3	83	<1	62	>50	-
259	260	33.20	GC2512	<0.01	-	49	<3	68	<1	94	>50	-
260	261	14.13	GC2513	<0.01	-	38	<3	41	<1	59	>50	-
261	262	0.30	GC2514	<0.01	-	37	<3	48	<1	-	3	-
262	263	0.26	GC2515	<0.01	-	37	<3	58	<1	-	<1	-
263	264	0.32	GC2516	<0.01	-	16	8	47	<1	-	1	-
264	265	0.38	GC2517	<0.01	-	14	7	72	<1	-	<1	-
265	266	5.35	GC2518	<0.01	-	35	14	41	<1	-	21	-
266	267	38.65	GC2519	<0.01	-	68	<3	212	<1	106	>50	-
267	268.13	9.68	GC2520	<0.01	-	49	5	182	<1	67	>50	-
268.13	268.8	3.46	GC2521	<0.01	-	10	25	132	<1	-	<1	-
268.8	269.13	3.46	GC2522	<0.01	-	17	24	51	<1	-	<1	-
269.13	270	16.10	GC2523	<0.01	-	85	14	180	<1	-	<1	-
270	271	11.29	GC2524	<0.01	-	46	16	221	<1	-	48	-
271	272	3.87	GC2525	<0.01	<0.01	57	50	263	<1	-	26	-
272	273	26.57	GC2526	<0.01	-	73	28	407	<1	-	<1	-
273	274	25.84	GC2527	<0.01	-	43	11	217	<1	-	<1	-
274	275	0.51	GC2528	<0.01	-	43	18	194	<1	-	39	-
275	276	0.41	GC2529	<0.01	<0.01	50	21	101	<1	-	25	-
276	277	1.90	GC2530	<0.01	-	59	17	100	<1	60	>50	-
277	278	2.13	GC2531	<0.01	-	57	18	104	<1	-	30	-
278	279	1.96	GC2532	<0.01	-	59	23	145	<1	-	<1	-
279	280	1.91	GC2533	<0.01	-	71	7	143	<1	-	2	-
280	281	0.53	GC2534	<0.01	-	90	9	81	<1	-	<1	-
281	282	1.67	GC2535	<0.01	-	58	15	77	<1	-	35	-
282	283	3.24	GC2536	<0.01	-	57	15	88	<1	-	10	-
283	284	4.27	GC2537	<0.01	-	70	8	92	<1	-	33	-
284	285	3.28	GC2538	<0.01	-	55	<3	105	<1	60	>50	-
285	286	0.61	GC2539	<0.01	<0.01	61	<3	117	<1	-	21	-
286	286.8	0.50	GC2540	<0.01	-	63	5	100	<1	-	<1	-

3. Camera Surveys

Hole	Depth (m)	Azimuth (AMG)	Dip
RRDDH3	46.8	108	47.5
RRDDH3	85.8	53	47.5
RRDDH3	106.5	27	47
RRDDH3	136	121	47
RRDDH3	166.8	117	44
RRDDH3	196.8	136	43
RRDDH3	226.8	151	42

Note: Azimuth readings affected by magnetic rocks.

254146

4. Summary lithological log

Depth (m)	Weathering moderate to 22m, partial to 31m, minor to 41.8m.
2.7-23.1	Metamorphically differentiated schist with mafic (chlorite, ?talc) and felsic (albite, quartz) lamination.
23.1-25	Schist as above with bands of fairly uniform chlorite schist.
25-68.45	Chlorite schist containing intervals of quartzose rocks ranging in texture from fine grained and schistose (mylonite and ?quartzite), sometimes with augen of relict felsic grains, to gneissic, to relatively massive granitic. Notable intervals include: 35.5-37.1 granitic boudins up to 12cm with pre-kinematic, possibly intrusive contact at 36m; 41.8-42.2 granitic boudins; 45.7-46.8 gneissic granitoid grading quickly to very fine grained, banded mylonite; 51.05 51.25 very fine grained, banded mylonite; 54.25-54.5 classic granitoid boudins; 56.52-56.8 boudinaged and microfaulted vein of granitoid 5cm thick and parallel foliation; 59.8-60 similar vein; 66.5-68.45 very fine grained mylonite with less pronounced banding (?quartzite).
68.45-75.4	Chlorite schist with pronounced banding of medium and dark coloured silicates, pyrite and magnetite.
75.4-79	Massive magnetite with subordinate pyrite and white silicate, carbonate or barite in intergranular areas.
79-81	Talcose schist and talc-pyrite-magnetite rock.
81-129.25	Chlorite schist containing intervals of quartzose rocks. Notable intervals include: 89.7-92.25 probable gneissic granitoid; 102.85-108.35 hard, quartzose, medium grey rocks comprising mainly very fine grained mylonite (?and quartzite) with gradational, fairly massive, coarse grained granitic texture at 103.8 to 104.4; 115.4-123.7 pronounced segregation of pale siliceous laminae and dark green talcose laminae; 127.85-129.25 chlorite schist containing classic boudins showing relict granitic texture, sharp boundary oblique to foliation at 129.25.
129.25-156.3	Chlorite schist persists but strongly quartzose rocks diminish and medium grained, mafic rocks with much less quartz become prominent. These mafic rocks usually have gneissic texture. Notable intervals include: 129.25-140.8 mainly medium grained mafic gneiss with sharp contacts against contained intervals of chlorite schist, fairly massive coarse grained texture at 133.3-134.2, becomes finer grained towards the bottom contact; 140.8-144.5 similar rocks; 155.15-156.3 medium grained mafic gneiss with magnetite-pyrite banding at 155.15-155.4.
156.3-182.5	Chlorite schist containing intervals of mafic gneiss. Strongly quartzose rocks now minor. Notable intervals include: 156.3-167.35 chlorite schist; 167.35-167.7 quartzose mylonite with relict coarse grained quartz; 171.5-172.3 quartz bearing mafic gneiss with relatively massive patches; 176.9-177.8 mafic gneiss gradational at bottom contact with chlorite schist; 179.53-179.63 mafic gneiss with sharp top and bottom contacts; 179.75-181.2 mafic gneiss with sharp boudin boundaries at bottom contact.
182.5-195.4	Partly gneissic but mostly equigranular. Contains distinctive subhedral grains with distinctive white, earthy alteration (?after plagioclase). Texture may be original igneous or prograde metamorphic.
195.4-208.6	Chlorite schist with intervals of mafic gneiss. Notable intervals include: 197.3 197.6 coarse grained quartz-bearing mafic gneiss with sharp top contact and gradational bottom contact; 201.05-205.1 similar unit, similar contact relationships, altered subhedral grains.
208.6-214.45	Chlorite schist with granitoid intervals. Notable intervals include: 209.2-210.5 fairly equigranular, relatively coarse grained graitoid; 212.95-213.77 similar rocks; 213.9-214.45 gneissic granitoid.

214.45-235.85	Chlorite schist with intervals of mafic gneiss. Notable interval: 214.33-219.7 medium grained to coarse grained gneiss with variable, minor quartz, fairly equigranular from 215-216.
235.85-247.65	Distinctive, metamorphically differentiated schist from 235.85-236.57; quartzite from 236.57-238.45; chlorite (?) schist 238.45-239; quartzite from 239-239.4; broken core including brecciated quartzite in talc matrix, and crudely banded talc from 240.6 to 247.65.
247.65-254	Hematitic schist with notable intervals: 251.25-251.6 banded magnetite with subordinate pyrite and white (?) carbonate; 251.6-253.1 chlorite schist with minor pink garnet and common magnetite-pyrite bands; 253.6-254 banded magnetite-pyrite-silicate.
254-273.35	Chlorite schist with intervals of mafic gneiss. Many of the mafic gneiss units have sharp top contacts and transitional or diffuse bottom contacts eg 262.35-265.05, 265.2-266.17 has very sharp top contact cut by foliation, 269-270.5, 270.95-272.05, 272.85-273.05, 273.16-273.33. Possible carbonate alteration 268.05-269.2.
273.35-286.8	Mafic gneiss with (?quartz-carbonate) alteration zones - beautiful transitions at high angles to foliation at 275.4 and 276.65. Altered intervals include 273.85-275.4, 276.65-277.7 (banded in part), 281.13-281.45 (banded in part), partial alteration 284-284.4.

254148

Goldstream - Titan Joint Venture

Corinna Project

EL43/94: Annual Report to 4.1.98

APPENDIX 6

PETROGRAPHIC REPORT ON SAMPLES FROM DIAMOND DRILL HOLES LSDDH3, RRDDH1, AND RRDDH3, EL 43/94 CORINNA, WESTERN TASMANIA

by

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November, 1997

Hole	Prospect	AMG (m)	Azimuth	Dip
LSDDH3	Lucy Spur	347730E5384715N	292° AMG	45°
RRDDH1	Rocky River	349810E5389595N	270° AMG	45°
RRDDH2	Rocky River	349040E5389970N	112°	45°

254149

PETROGRAPHIC REPORT

SAMPLES FROM 3 DRILLHOLES AT CORINNA
GOLDSTREAM Ltd (attn Nic Turner)

Introduction:

A day was spent examining and sampling drillcore from three drillholes put down by Nic Turner for Goldstream Ltd in the Lucy Spur - Rocky River areas of their Corinna licence. Sixty samples were taken for petrographic examination, and descriptions of all are appended. Key points are noted below for each drillhole.

LSDDH3 (Lucy Spur)

This hole was dominated by quartz-muscovite schists with variable amount of chlorite and carbonate, in a number of samples abundant enough to be termed quartz-muscovite-chlorite-carbonate schists. Minor phases in these rocks are a rather platy or bladed opaque (called hematite in the petrographic descriptions, but it may be ilmenite), common granular epidote, and green compositionally zoned tourmaline. Several intervals evident in core as paler coloured more granular bands than host schists are quartz-epidote rocks with very minor muscovite, chlorite and tourmaline. These may have been sandstone units, although the textural obliteration and recrystallization during metamorphism and foliation development precludes confident identification of a protolith for any of these rocks.

Below about 115m, albite porphyroblasts become more common. These are rarely larger than 1mm across, host abundant epidote inclusions,. and are clearly syn- late S2 (see below). Folded quartz veinlets essentially free of micas or epidote are common in some samples, and in that from 163.5m appear to have hosted pyrite grains that are disopersed along one or more recrystallized, folded and boudinaged quartz veinlets.

The structural history of these samples is perhaps better shown in thin section than core. However, folded S1 foliation is common in the core, and S2 is clearly a strong crenulation axial planar to mesoscale small (1-5cm) F1 folds. S2 is the dominant foliation in core and thin section, and is generally planar, with occasional small kinks or crenulations probably due to localized effects of albite porphyroblast nucleation. Long, folded quartz tails on pyrite in the slide from 163.5m suggest a high strain environment for S1. Albite porphyroblasts are late syn-S2, as they clearly overgrow S2 crenulation and preserve epidote grains showing S1 folds and orientations. The boudinaged quartz veinlets in samples from 150.1m and 163.5m show subgrain recrystallization but no annealing, suggesting high strain at fairly low temperatures.

RRDDH1
This hole was drilled to the west into the eastern edge of the Bowry Formation. The upper sections of this hole have been interpreted as Oonah Formation intruded by gabbroic rocks. Deeper in the hole, a transitional passage marked by increasing chlorite content leads into Bowry Formation rocks.

The rather massive weakly foliated greygreen rocks in the upper sections of this hole are albite-chlorite-actinolite-epidote schists with typical greenschist mineralogy, including minor quartz, khaki biotite and carbonate. Albite forms abundant late-syn S2 porphyroblasts again rarely larger than 1mm across, and often riddled with epidote.

Metagabbroic rocks in the upper 100m of the hole are considered to retain at least the broad outlines of former augite crystal sites, now pseudomorphed by almost colourles to pale green hornblende. These invariably have fringes or rims of a more greenish-blue actinolitic amphibole similar to that in the enclosing schists. Common fresh to altered sphene aggregates replace former FeTi oxides, and all plagioclase has recrystallized to albite porphyroblasts, often riddled with tiny epidote granules. Other minerals in the metagabbros include common chlorite, epidote, khaki biotite, interstitial quartz and small clear garnets (in sample from 40.65m).

A thin unit dominated by polycrystalline, recrystallized carbonate is present at 82.0m, and contains minor muscovite and quartz. This may have been a thin primary carbonate unit, or a very carbonate-rich pelite.

Below about 100m, the schists become more mafic in appearance, chlorite becomes a dominant component. and magnetite porphyroblasts become modally significant. Albite porphyroblasts are still common in these mafic schists, which usually also carry quartz, epidote, actinolite and sphene, with variable amounts of muscovite and carbonate. Garnet is present in some samples and not others. The pinkish garnets, up to 1mm across in most slides where it is present, retain superb folded inclusion trails that record F1 (rather than being rotated, but show no rotation. The F1 folds preserved in garnet are broader than those in the chloritic matrix of many of these schists, and the S2 foliations clearly wrap around the garnets, suggesting an early syn-S2 origin for garnet porphyroblasts.

In the sample from 321.3m, albite porphyroblasts which are definitely late syn-S2 occasionally contain small relics of lavender glaucophane, a record of a previous higher-P mineral assemblage.

Banded Fe-type lithologies appear intermittently below 105m, and are not thick or well developed. At 106.4m (unpolished, unfortunately), a strongly strained and recrystallized quartz-carbonate rock contains disrupted bands up to 6-8mm thick of fine-grained magnetite, apparently pyrite-free. At 155.1m, another narrow mineralized band contains visible coarse-grained pyrite and chalcopyrite, but without a polished sample, it is difficult to estimate relative proportions of the sulphides and magnetite.

Except for the metagabbros, which I am confident were tholeiitic gabbroic sills or dykes, the nature of the protoliths of the chlorite-albite-epidote-actinolite±garnet±magnetite schists is inconclusive. Certainly, the protoliths of these rocks were more mafic than those of the LSDDH3 and uppermost RRDDH1schists. Whether this records a major volcaniclastic component, or indeed that the schists are derived from basaltic precursors, might be determined from carefully controlled sampling and wholerock analysis of appropriate rocks. I have already selected relevant samples, and will provide Goldstream with analyses at no cost, the work forimg part of the proposed PhD thesis by Oliver Holm.

It is likely that all these rocks crystallized at least in the amphibolite facies, and have retrogressed, with actinolite and chlorite development from hornblende, and epidote-albite growth from intermediate plagioclase, and chlorite. The presence of a few unambiguous spots of glaucophane in late S2 albite porphyroblasts is intriguing, and deserves further study.

RRDDH3

This hole was collared at the western edge of the Bowry Formation and drilled to the east. A feature of the rocks in this drillhole was the presence of numerous mainly narrow granitoid intervals. Contacts were deliberately sampled between the granitoids and the host schists, and in every case, the foliations in the schist essentially paralleled the contact.

The mafic schists that dominated this hole consist of variable amounts of well-foliated albite, chlorite, actinolitic amphibole with a bluish-green to green pleochroism, common granular epidote, sphene, and abundant magnetite porphyroblasts. Tourmaline is a ubiquitous accessory phase, sometimes forming concentrations of euhedral crystals, or diffuse bands. Albite usually occurs as 0.2-1mm sized porphyroblasts that, as in the other drillholes, appears to be late syn-S2.

The granitoids are all similar petrographically,m and consist of ragged larger crystals of sodic plagioclase and Kspar (microcline), with the former always dominant, common granuloblastic quartz, greenish-blue amphibole (actinolitic), large crystals of sphene and small khaki to green biotite crystal aggregates. Magnetite porphyroblasts are not uncommon. Below about 60m depth, the common tourmaline is a brown to gray pleochroic phase quite unlike the green tourmaline present in the other holes. The texture of the granitoid rocks is almost certainly thoroughly recrystllized. These rocks have resisted foliation development more than the schists, but still show flattening of quartz and aligned trails if chlorite that record at least the S2 foliation.

Metagabbroic rocks very similar to those described from RRDHH1 are also present in RRDDH3, although perhaps less obvious in core due to less well defined contacts in some instances. These occur as gneissic textured rocks with the amphibole (with paler green cores and more blue-green rims that are typical of the RRDDH1 amphiboles), interstitial granuloblastic albite and minor quartz with strong subgrain recrystallization, abundant epidote and sphene (albeit often altered to messy microcrystalline aggregates and streaked out into the foliation), and common magnetite and tourmaline. At least one of these 'metagabbros' at 133.7m appears to be more evolved and quartz-rich compared to the others, and is in many ways transitional between the typical metagabbros and the 'granitoids' higher in this hole. Decidedly lavender coloured glaucophane occurs as small relict spots within larger pale amphibole clots, and records an earlier higher-pressure assemblage. Again, with strong evidence for an retrogressed amphibolitic assembalge in most of these (and RRDDH1) rocks, it is important to determine the timing and significance of the amphibolitic versus the high-P lower T metamorphic event that produced the glaucophane.

Again, wholerock geochemical studies should be able to clarify

1: whether the gabbros in RRDDH1 and 3 are comagmatic and represent the same units,
2: whether these gabbros are similar compositionally to the Rocky Cape dykes, and
3: whether the abundant chlorite-albite schists in these holes have compositions that are appropriate for metabasaltic precursors, and if so, do they match the Sulphur Creek alkaline basalts, or the tholeiitic Smithton Trough-Motton Metabasalt sequences.

SAMPLE NUMBER: LSDDH 3 51.75m
SUMMARY DESCRIPTION

This sample is a strongly foliated schistose rock derived probably from an altered clayey sandstone protolith. The mineral assemblage of the protolith has thoroughly recrystallized to a complex assemblage of (in approximate order of decreasing abundance) quartz, muscovite, chlorite, carbonate, hematite, epidote and tourmaline. The rock can broadly be considered as being composed of two domains, quartzose, muscovite-poor, and sericitic, quartz-poor. In the former, quartz occurs as a polycrystalline medium-grained intergrowth with mutual grain contacts being some way short of 'equilibrium' quartzite-like 120° contacts. Quartz grains are equant, and commonly occur intergrown with subordinate single grains of muscovite and a bladed opaque phase. They do not show foliation-defining or deformation-induced elongation. However the quartzose domains do form elongate aggregates to more than 1 cm long enclosed by foliation-defining packets and seams of well-crystallized muscovite. The foliation is enhanced by rather bladed, elongate opaque crystals, probably hematite, growing more commonly in muscovite than in quartz. Chlorite forms diffuse patches mainly interspersed through granular quartz aggregates. Carbonate occurs mainly as notably anhedral patches within quartzose domains, and is rather brownish, suggesting possibly ankeritic compositions. However, more prismatic carbonate crystals also occur intergrown with muscovite and with quartz, suggesting that carbonate was present during the recrystallization event that accompanied deformation of this rock. Epidote is a very minor phase, forming a few small messy patches in quartz. Green strongly pleochroic tourmaline is a volumetrically minor but widespread phase, occurring as euhedral stubby prismatic grains growing in both muscovite-dominated, and quartzose, domains.

SAMPLE NUMBER: LSDDH3 61.95m
SUMMARY DESCRIPTION

This sample is very similar mineralogically and texturally to the preceding sample, with muscovite packages defining a folded cleavage. Hematite blades are less altered, with 'sharper' edges than in the preceding sample, but otherwise the mineral assemblage (including tourmaline) is identical.

SAMPLE NUMBER: LSDDH3 70.55m
SUMMARY DESCRIPTION

This sample is another strongly foliated medium-to fine-grained quartz-muscovite-chlorite schist, but it is significantly less quartzose and more sericitic than the two preceding samples, presumably reflecting a more muddy, less quartzose protolith. It also is carbonate-free. This rock is also more deformed than the preceding samples from higher in this drillhole, with quartz grains being decidedly elongate parallel to foliation, and some more substantial quartzose domains being boudinaged. Sericite and chlorite are intimately intergrown, although muscovite is volumetrically dominant. Bladed hematite crystals mainly 0.1-0.5mm long occur throughout the muscovite-chlorite domains, and small pleochroic and strongly zoned tourmalines are common in both quartz-rich and muscovite-chlorite domains. Where set in muscovite-chlorite, the hematite blades appear to be reacting at their margins to form fluffy fine-grained muscovite.

254154

SAMPLE NUMBER: LSDDH3 83.1m
SUMMARY DESCRIPTION

This sample is a banded schist with paler, coarser-grained more granular bands to several cm wide (in the drillcore) and darker fine-grained, more foliated bands. Conspicuous small-scale folding is present. The coarser domains are mainly medium-grained (<1mm) and composed of an intergrowth of quartz and epidote. Quartz forms the matrix of these domains, and occurs as ragged intergrowths of slightly deformed grains with frilly non-equilibrium contacts against adjacent quartz grains, and strong internal deformation reflected in sweeping cleavage; stretching of quartz grains parallels the foliation defined by muscovite in the mica-rich domains. Epidote in the granular quartzose domains occurs as subhedral to euhedral stubby pale yellow prisms mainly <0.5mm long, with long axes of grains mainly subparallel with the mica foliation. Minor phases in the quartzose domains are well-formed single muscovite crystals, and occasional spots of chlorite. The change to the more micaceous domains is transitional in nature, marked by a gradual increase in muscovite until it forms almost continuous, though strongly kinked bands, still riddled with small prismatic epidote crystals and subordinate bladed hematite and small euhedral tourmaline grains. Pale green chlorite occurs quite commonly intergrown with muscovite in the micaceous domains.

SAMPLE NUMBER: LSDDH3 90.7m
SUMMARY DESCRIPTION

This sample is a more chloritic quartz-muscovite-chlorite schist with abundant large (to 2mm across) ragged-edged albite porphyroblasts that are clearly syn-late S2 or even post-S2 in some instances. These porphyroblasts show occasional albite twinning, and commonly contain trails, sometimes curved and folded, of well-formed epidote grains. Chlorite, usually closely intergrown with muscovite, is notably more abundant in this rock than in others described above. Bands to 4mm wide composed largely of quartz and carbonate are probably disrupted quartz veins. Structural details are no different from the preceding samples.

SAMPLE NUMBER: LSDDH3 95.4m
SUMMARY DESCRIPTION

This sample is another medium-grained quartz-chlorite-muscovite-epidote schist, and it shows 1-2cm-scale folding. It contains significantly more carbonate than the previous samples, and the ratio of chlorite to muscovite is greater than preceding samples, probably reflecting the lower muscovite mode of this rock. The rock is essentially an foliated intergrowth of granular anhedral quartz, subhedral colourless carbonate, small rather ragged prisms of epidote, and trains and seams of muscovite and intergrown green chlorite. Green zoned tourmaline occurs as occasional but widely distributed small prismatic crystals, and the bladed hematite of the preceding samples is not present in this section. The protolith of this rock was more carbonate-rich and probably Fe-poor than those of the preceding samples.

SAMPLE NUMBER: LSDDH3 106.35m
SUMMARY DESCRIPTION

This sample is another carbonate-rich quartz-muscovite-chlorite schist in which the abundant carbonate has clearly regrown with quartz and micas during the deformation-related recrystallization. Significant folding and kinking is present at the thin section scale, and the rock consists essentially of a weakly banded intergrowth of quartz, clear to palest brown carbonate, muscovite, chlorite, and minor hematite and tourmaline. Reddish spots evident in the hand specimen are altered heamatite, not garnet.

SAMPLE NUMBER: LSDDH3 119.6m
SUMMARY DESCRIPTION

This sample is another quartz-muscovite-chlorite-carbonate schist with slightly more carbonate and chlorite than most of the preceding samples. The S2 fabric is strong, and thin elongate quartzose domains are interspersed through more micaceous layers, and late S2 albite porphyroblasts are also present, although mainly small. Several lensoidal areas composed almost entirely of quartz are definitely boudinaged quartz veinlets; these show strong subgrain development, but no annealing. Tourmaline, epidote and hematite are only very minor components of this rock.

SAMPLE NUMBER: LSDDH3 124.3m
SUMMARY DESCRIPTION

This sample is another quartz-muscovite-chlorite schist with less carbonate and more epidote than the previous sample. S2 foliations are rather widely spaced, and tight, small-scale F1 folds are well preserved in muscovite and chlorite and quartz. F1 clearly produced metamorphic layering, with thin, elongate quartz-dominant domains, and wider and more abundant micaceous domains.. Albite porphyroblasts often riddled with small epidote crystals are common, and clearly overgrow and are sometimes rotated by S2. Hematite is well preserved in this rock as common platy bladed crystals

SAMPLE NUMBER: LSDDH3 128.55m
SUMMARY DESCRIPTION

This sample is a quartz-muscovite-chlorite-carbonate schist with a pronounced S2 foliation, and little sign of S1 preserved. Rather tatty brownish carbonate is common, and epidote is also a slightly dirty brown colour, especially at grain margins, suggesting that it is reacting. Tourmaline and bladed hematite are common. Albite porphyroblasts grow only in limited domains in this rock in which muscovite is the dominant mineral; they are absent in the major areas of this slide composed of intergrown muscovite, quartz, carbonate and chlorite. Where albite porphyroblasts are common, carbonate is dramatically diminished in volume.

SAMPLE NUMBER: LSDDH3 150.1m
SUMMARY DESCRIPTION

This sample is a contact between one of the pale greenish-cream granular quartzose domains (as in the sample from 83.1m), and darker, finer-grained micaceous domains. Augen of crystalline clear quartz to at least 2cm long occur within the micaceous domains. As in the rock from 83.1m, the granular cream coloured domain consists mainly of a fine medium-grained intergrowth of polycrystalline quartz and epidote; however, clear carbonate, varying from euhedral rhombs to anhedral spots, is also common (probably 10-15 modal%). Quartz grains show wavy and frilly boundaries against adjacent grains. Epidote is present as pale yellow randomly orientated small prisms, and the only other phases in the pale domains are well-formed muscovite crystals to more than 1mm long, small spots of chlorite, blades of hematite, and occasional tiny tourmaline grains. The passage into the darker micaceous domains is marked by a significant increase in grainsize of quartz and muscovite, a big increase in the abundance of muscovite and hematite, and an increase in both the abundance and grainsize of green tourmaline. Coarse-grained quartz grains adjacent to the augen are riddled with curved trains of hematite, muscovite and epidote, whereas quartz forming the augen occurs as strongly strained, almost monomineralic aggregates with occasional well-formed chlorite crystals set in it.

SAMPLE NUMBER: LSDDH3 163.5m
SUMMARY DESCRIPTION

This sample in hand specimen is a carbonate-pyrite spotted weakly foliated quartz-muscovite schist, with occasional disseminated pyrite grains to several mm across. In thin section it is seen to be a particularly carbonate-rich (relative to most preceding samples) schist, with 30-40 modal% of clear anhedral to subhedral carbonate intergrown with quartz and muscovite, with common epidote, chlorite and small green tourmaline prisms. Narrow folded veinlets composed mainly of polycrystalline medium-grained quartz are present in this sample, and the pyrite grains appear to be spatially linked to these, although pyrite has probably recrystallized to a large degree. Many pyrite grains contain tiny carbonate inclusions, and they lack pressure shadows.

SAMPLE NUMBER: LSDDH3 177.9m
SUMMARY DESCRIPTION

This sample is another carbonate-rich rather pale quartz-muscovite schist composed of a medium-grained intergrowth of quartz, colourless carbonate, coarsely crystalline muscovite, small epidote prisms, and minor interstitial chlorite. Porphyroblasts of albite? are common in this sample, each being riddled with small epidote crystals and tiny anhedral patches of carbonate. Tourmaline is a very minor phase in this rock compared with preceding samples from higher in this hole.

SAMPLE NUMBER: LSDDH3 182.95m
SUMMARY DESCRIPTION

This sample is another greenish, strongly carbonate-spotted quartz-muscovite schist with a slightly coarser grainsize but identical mineral assemblage to the preceding sample. It shows common 1-2mm-sized albite porphyroblasts, all riddled with tiny epidote and carbonate inclusions set in a more deformed quartz-muscovite matrix with common chlorite spotting and small prismatic epidote crystals. Disseminated small opaque grains have shapes more reminiscent of magnetite than pyrite. Several former small quartz veinlets are deformed and boudinaged.

SAMPLE NUMBER: LSDDH3 204.9m
SUMMARY DESCRIPTION

This sample is a rather more massive (weakly foliated) grey green quartz-muscovite schist. It is composed largely of an intergrowth of granular quartz with frilly grain boundaries and a slight elongation parallel to foliation, and well-formed 0.2-1mm sized muscovite crystals that define the foliation. Chlorite occurs also as well-formed crystals in quartz and muscovite, but is volumetrically subordinate to muscovite. Bladed hematite crystals are common in this sample, and small epidote and tourmaline crystals are present but in very small amounts relative to most preceding samples, especially the epidote. A single ragged edged carbonate veinlet transects the foliation.

SAMPLE NUMBER: LSDDH3 232.85m
SUMMARY DESCRIPTION

This sample is a relatively coarse-grained moderately foliated cream-grey schist with discontinuous and disrupted quartz-carbonate veinlet obvious in hand specimen. In thin section, this is seen to be a relatively coarse-grained (up to 1.5-2mm although usually much finer) schist dominated by domains of quartz with common intergrown carbonate and minor muscovite, and bands and seams of dense and felted muscovite containing abundant chlorite. Quite coarse-grained aggregates composed almost entirely of strained quartz are probably disrupted former quartz veinlets. Anhedral to subhedral albite porphyroblasts with prismatic inclusions of tourmaline and carbonate (but no epidote) are common. Fine-grained deep green zoned tourmaline is particularly common in this sample, and epidote is present as only a few poorly crystalline small grains. Hematite is absent.

SAMPLE NUMBER: LSDDH3 234.3m
SUMMARY DESCRIPTION

This sample is a coarser-grained quartz-muscovite-carbonate schist almost free of chlorite. The S2 foliation in this sample is more widely spaced than in most samples from this hole. Muscovite-quartz bands show small-scale F1 folding that is transected by straight S2 foliation planes. Well-formed, zoned tourmaline prisms, usually very small (<0.1mm), are common in muscovite in both S1 and S2 foliations. Rather coarse-grained carbonate, up to 2mm across, is common in more quartz-rich domains. A few small areas are present in which ragged anhedral opaques that are definitely not hematite (probably pyrite) occur along S2, mainly growing in muscovite aggregates.

SAMPLE NUMBER: LSDDH3 250.9m
SUMMARY DESCRIPTION

This sample is a very uniform-textured quartz-muscovite-chlorite-albite-carbonate-epidote schist with S1 foliation well preserved and showing small scale folding, but still less important in the rock than the strong S2, which defines the dominant foliation. Occasional albite porphyroblasts riddled with prismatic small epidote crystals, have clearly grown syn-late S2. Bladed hematite and small tourmaline grains are common.

SAMPLE NUMBER: LSDDH3 264.1m
SUMMARY DESCRIPTION

This sample is another quartz-muscovite-chlorite schist with common albite porphyroblasts that in places occur as intergrown aggregates of up to six grains, totalling at least 5mm across. The albite porphyroblasts are riddled with small prismatic epidote crystals that form folded and curved trains of grains. The remainder of the rock consists mainly of discontinuous relatively quartz-rich, and quartz-poor mica-rich bands usually less than a few mm wide, with the latter showing excellent small scale folding and the folds being transected by a more linear S2 foliation that is close to axial planar with respect to S1. Short trails of small pyrite grains are present in one or two places in the slide, but the volume of pyrite is modally insignificant. Some of the pyrite predates, and has certainly been affected by S2. Several boudinaged former folded quartz veinlets with minor carbonate are present.

SAMPLE NUMBER: RRDDH1 23.35m and 50.8m
SUMMARY DESCRIPTION

These essentially identical massive grey-green rather porous samples that have been thoroughly recrystallized in mid-greenschist facies, and preserve no textural evidence to provide clues as to the nature of their protoliths. Both are dominated by 0.1-0.3mm sized equant, rather rounded subhedral albite porphyroblasts riddled with small epidote granules, many abutting their neighbours, and all set in a weakly foliated matrix composed of abundant green chlorite, intergrown but modally far subordinate khaki biotite, anhedral quartz, common subhedral prismatic clinoamphibole crystals mainly <0.2mm long that show green to blue-green pleochroism, granular fine-grained epidote, and minor interstitial quartz. The amphibole is probably actinolitic, with the bluish tinge attributable to limited 'crossite' substitution. A weak foliation is defined by the chlorite, but many of the prismatic small amphiboles are orientated at a significant angle (>45o) to this foliation plane. The sample from 50.8 m shows a better developed foliation, minor fine-grained carbonate, and not uncommon but << 1modal% of small colourless garnets that are occasionally fully enclosed by the albite porphyroblasts, although they also occur set in chlorite. These samples are probably broadly andesitic in composition, although they preserve no evidence of igneous precursors other than the high chlorite-amphibole content suggesting a volcaniclastic precursor perhaps.

SAMPLE NUMBER: RRDDH1 40.65m
SUMMARY DESCRIPTION

This sample is a coarser-grained metagabbroic rock from the internal section of the gabbroic unit between 36 and 48m depth in this core. Better preserved igneous textures are evident in the form of larger amphibole pseudomorphs after augite. However, as with the previous sample, all former plagioclase has recrystallized to aggregates of small equant albite porphyroblasts, most of which host prismatic small crystals of epidote. Interstitial chlorite is filled by abundant small amphibole prisms, and contains common tiny spots of pleochroic khaki biotite. Long tabular prisms of clinozoisite are notably more crystalline than much of the patchy epidote in this sample. Amphibole replacing augite sites is generally clear and colourles to pale green, with neoblasts and rims and fringes of more greenish-blue actinolitic amphibole. Euhedral small colourless garnet porphyroblasts are not uncommon, and often occur within albite porphyroblasts. Messy sphene is widely distributed through the rock, and a weak foliation is defined by chlorite and its hosted amphibole crystals, and by stylolitic microshearzones.

SAMPLE NUMBER: RRDDH1 65.45m
SUMMARY DESCRIPTION

This sample is another metagabbroic rock mineralogically and texturally very close to the preceding rock. The amphibole replacing augite is again mainly paler green than amphibole neoblasts and euhedral crystals in chlorite, which show the same green to bluish-green pleochroism, plagioclase is entirely recrystallized as small albite porphyroblasts with epidote inclusions. Long trails of dirty fine-grained epidote and sphene better define a foliation than in the preceding sample, and chlorite is probably subordinate modally to amphibole. A careful search revealed no garnet in this slide.

SAMPLE NUMBER: RRDDH1 54.1m
SUMMARY DESCRIPTION

This sample is from a band of phyllite separating the two preceding metagabbroic units. It is a banded quartz-muscovite-garnet schist showing two clear foliations as in samples from the drillhole LSDDH3. An earlier small scale folding is preserved best within the mica-rich bands in this sample, and these are transected by a straight pervasive S2 foliation that is more widely spaced than S1 and has clearly involved microshearing, dissolution and volume-loss, with consequent concentration of insoluble dark fine-grained material along many S2 planes. The garnets occur mainly in the mica-rich domains as small (<0.2mm across) euhedral colourless crystals that appear to have grown syn- or after S2 and have deflected the S2 foliation. Very pale green chlorite is common, but far subordinately modally to muscovite, The quartzose domains consists of discontinuous bands and lenses of granular quartz showing strong subgrain recrystallization, and hosting S1 trails of muscovite. This was probably an Fe-poor pelitic sedimentary rock originally, and the absence of amphibole and epidote reflect a very Ca-poor protolith.

SAMPLE NUMBER: RRDDH1 82.0m
SUMMARY DESCRIPTION

This sample is a buff-coloured carbonate-rich unit only 15-20cm thick present at the base of another 7m-thick metagabbroic unit. The rock is now a weakly banded intergrowth of pale brown carbonate with smaller amounts of quartz and muscovite, with common extremely fine-grained disseminated opaques. Carbonate varies from rather coarse-grained to very murky and fine-grained, and forms a continuous mesh through the rock, with coarser-grained areas defining discontinuous bands. Quartz is present as small anhedral ragged grains and grain aggregates interstitial to the carbonate, many of which show subgrain recrystallization. Muscovite occurs as very fine-grained crystals. Several well-formed hexagonal crystals now composed entirely of muscovite or sericite may have been garnet. Although textural evidence is lacking to provide clues to the protolith of this rock, I suggest that it may have been a particularly carbonate-rich pelite, or even a small unit of primary carbonate. Carbonate is absent from the metagabbros and very rare in the phyllitic inter-gabbro units, so I doubt that this rock is simply a metasomatic carbonate vein or replacement.

SAMPLE NUMBER: RRDDH1 93.7m
SUMMARY DESCRIPTION

This sample is from the relatively fine-grained margin of a metagabbroic unit and it preserves only vague traces of a doleritic texture in the form of rather coarser-grained, and less prismatic amphibole areas that almost certainly are replacing former augite sites. The remainder of the rock shows thoroughly recrystallized textures composed of green-bluish to green pleochroic amphibole, albite porphyroblasts (but notably less common than in the preceding samples), and abundant interstitial chlorite and rather patchy anhedral epidote; garnet is not present. Small anhedral fluffy patches of dirty sphene are scattered through the rock, picking up Ti released during during breakdown of former FeTi oxides. No tabular plagioclase sites characteristic of doleritic-gabbroic rocks have been preserved following the strong recrystallization. A very weak foliation is defined by streaks of interstitial chlorite, and discontinuous stylolitic trails of insoluble sphene and fine-grained opaques.

SAMPLE NUMBER: RRDDH1 103.45m
SUMMARY DESCRIPTION

This sample is a grey green rock composed of a rather massive granular lithology with interspersed bands of a more micaceous (chloritic) and much finer-grained lithology. The chloritic domains are composed of dense foliated green chlorite in which are set occasional albite porphyroblasts, 2-6mm-long augen of polycrystalline quartz, magnetite porphyroblasts, rare elongate crystals of epidote, and narrow seams of dirty brown carbonates. The more granular domain is composed of a far greater modal abundance of equant 0.1-0.3mm sized albite porphyroblasts set in foliated chlorite. The chlorite in these domains contains more intergrown muscovite and less magnetite, although the latter is common still as porphyroblasts clearly intergrown with the albite porphyroblasts. Both albite porphyroblasts and chlorite contain common small epidote grains. Garnet is absent. The texture of this rock is entirely due to metamorphic recrystallization, and the amount of chlorite and albite suggest to me that the protolith was already a strongly altered chloritic rock.

SAMPLE NUMBER: RRDDH1 106.4m
SUMMARY DESCRIPTION

This sample is from a narrow banded iron section in which discontinuous and disrupted band of fine-grained magnetite are up to ~6mm thick. Parts of this rock strongly resemble the carbonate-rich unit immediately beneath the metagabbro around 82m depth in this hole, being composed of brownish granular and texturally very variable carbonate with interstitial strained polycrystalline quartz and disseminated magnetite euhedra and minor chlorite. Bands of considerably finer-grained magnetite surrounded by seams of fine-grained carbonate host occasional much larger magnetite grains, some cut by parallel fractures parallel to the carbonate banding. Occasional domains to almost 1cm wide are composed mainly of ragged polycrystalline quartz with a dusting of fine-grained magnetite.

SAMPLE NUMBER: RRDDH1 110.6m
SUMMARY DESCRIPTION

This sample is from a weakly foliated rather porous grey unit some 5m thick. In thin section, it is clearly a foliated quartz-muscovite-chlorite-magnetite schist with subequal amounts of the major three minerals, and about 1 modal% of disseminated magnetite. Trails of dirty brown carbonate parallel the cleavage. Magnetite grains are mainly very small (<<0.1mm across) well-formed equant crystals with distinctly more equant shapes than the bladed hematite crystals in LSDDH3. The sample lacks albite porphyroblasts, epidote, amphibole and garnet, and preserves no primary textural evidence as to its protolith. A single 0.5mm-sized pale brown tourmaline crystal is present, and appears to be too euhedral to be detrital in origin.

SAMPLE NUMBER: RRDDH1 137.4m
SUMMARY DESCRIPTION

This sample is a strongly foliated quartz-muscovite schist with discontinuous and pinching and swelling muscovite-dominated bands to about 6mm thick, with occasional hematite blades starting to break down, set in a quartzose matrix composed largely of polycrystalline sugary strained quartz with aligned flakes of muscovite forming a weak foliation parallel to that in the muscovite-rich layers. The only other significant minerals in the quartzose domains are disseminated well-formed brownish-khaki tourmaline grains and common colourless to palest green chlorite. Scattered quite large, rather rounded detrital zircons are present in this sample, which was probably a fine sandstone.

SAMPLE NUMBER: RRDDH1 155.1m
SUMMARY DESCRIPTION

This sample is from a narrow mineralized band in which relatively coarse-grained pyrite and chalcopyrite are both evident in the core. One band more than 1cm wide consists of coarse-grained carbonate containing large (to at least 1mm long) particularly well-formed muscovite grains being partially to completely replaced by chlorite, and abundant patches of fine-grained sulphides, possibly pyrite. Pockets of quartz are present with straight equilibrium boundaries against adjacent quartz grains. Cm-sized coarser bands composed dominant of quartz and sulphides show much more disequilibrium textures in the quartz, with frilly grain boundaries and subgrain recrystallization, with occasional large muscovite crystals. The rock adjacent to the mineralized band is a quartz muscovite schist essentially identical to the preceding sample from 137.4m depth. Trails of small euhedral pyrite crystals have very different form from the larger anhedral patches of chalcopyrite, the latter often partially enclosed in carbonate.

SAMPLE NUMBER: RRDDH1 176.4m
SUMMARY DESCRIPTION

This sample is weakly foliated rather massive grey-green rock in core composed of about 50 modal% equant albite porphyroblasts averaging around 0.5-1mm across, set in a matrix of foliated chlorite with streaks of polycrystalline quartz and carbonate, small spotty epidote crystals, and quite large (to 0.5mm across) euhedral magnetite crystals (<1 modal%). The albite grains are mainly slightly 'rounded' euhedra, all of which contain small prismatic epidote crystals often parallel to the chlorite-defined foliation. Several 1-3mm-long augen composed almost entirely of polycrystalline quartz represent disrupted veinlets. This rock is muscovite-free, suggesting that it suffered strong hydrothermal alteration prior to recrystallizing to the present assemblage.

SAMPLE NUMBER: RRDDH1 208.95m
SUMMARY DESCRIPTION

This sample is a strongly foliated quartz-chlorite-muscovite-garnet-magnetite schist. The foliation is defined by discontinuous and pinching and swelling bands of chlorite and polycrystalline quartz containing muscovite flakes, and common thin streaks and narrow bands of dirty brown carbonate. Garnets are up to at least 1mm across and are pinkish fractured crystals usually set in chloritic domains, and many crystals show core areas altered to talc or a very fine-grained chlorite-white mica mixture. Many contain trails of tiny opaques identical to those within the chlorite matrix; the garnets are best interpreted as syn-S2 porphyroblasts. Similar-sized magnetite porphyroblasts are euhedral but ragged-edged. Muscovite crystals to 1.5mm long are very well-formed, and mostly grow in a chloritic matrix; most are aligned parallel to the foliation. A patch of crystalline carbonate occurs in one corner of the slide, and is evident in the core sample from this interval as a cream band a few mm thick; this may be a former veinlet. The coarse muscovite in this sample probably predates S2.

SAMPLE NUMBER: RRDDH1 210.3m
SUMMARY DESCRIPTION

This sample is very similar to the preceding rock petrographically except that carbonate bands are more common, epidote is present and fairly fine-grained, and coarse-grained muscovite is absent. Otherwise the rock is a strongly foliated quartz-chlorite-garnet-carbonate schist with disseminated pyrite and common (5-8 modal%) pink garnet porphyroblasts to 0.3mm across, in places forming almost continuous bands of garnet. Subparallel bands composed of mainly fine-grained carbonate are fairly pure, but occasionally contain garnet and pyrite. Most of the latter minerals, and all of the prismatic small epidote crystals occur within more chloritic domains. As in the previous sample, but perhaps more coarse-grained and better developed, quite platy opaques occur throughout the chlorite, and contrast strongly with the equant euhedral disseminated pyrite. These may be hematite or ilmenite.

SAMPLE NUMBER: RRDDH1 224.55m
SUMMARY DESCRIPTION

This sample is fairly massive, weakly foliated grey-green rock with carbonate veinlets <1mm wide. In thin section it is clearly a chlorite-albite-carbonate-muscovite-magnetite-garnet schist dominated by small (<0.2mm across) porphyroblasts of albite with tiny epidote inclusions set in a foliated chlorite-carbonate matrix. Well-formed small muscovite crystals are common within the chlorite, and porphyroblasts of magnetite make up about 1 modal% of the rock. Tiny euhedral colourless garnets are scattered through the rock. No primary textural detail is preserved, although the core specimen suggests derivation from an impure fine-grained possibly carbonate-altered sandstone.

SAMPLE NUMBER: RRDDH1 246.2m
SUMMARY DESCRIPTION

This sample is another quartz-chlorite-carbonate-muscovite-garnet-magnetite schist, with clear carbonate-rich, quartz-rich and garnet-rich discontinuous bands. Additional minerals include not uncommon green to bluish-green pleochroic elongate prisms of amphibole intergrown with chlorite, and small dark olive biotite crystal intergrown in chlorite. The garnets in this sample are beautiful euhedral crystals to at least 1mm across with curved and folded trails of opaque inclusions that pass into the same inclusion trails in adjacent chlorite, recording no rotation of the garnet during its growth during S2 foliation development.

SAMPLE NUMBER: RRDDH1 267.55m
SUMMARY DESCRIPTION

This sample is a part of a massive carbonate-garnet-chlorite band with disseminated magnetite and minor pyrite and patches of strained polycrystalline quartz. The chlorite and the garnet crystals are riddled with small bladed hematite crystals. Pinkish garnet crystals are around 1mm across, and form massive aggregates with individual crystals separated by interstitial chlorite. Carbonate forms massive polycrystalline aggregates with strong subgrain recrystallization and hosting common mm-sized magnetite crystals.

SAMPLE NUMBER: RRDDH1 291.29m
SUMMARY DESCRIPTION

This sample is very similar to the samples from high in this hole (eg. 23.35m) in that it consists largely of well-formed equant, small albite porphyroblasts set in a chlorite matrix. Albite porphyroblasts are often in grain to grain contact, forming a rather granular aggregate that gives the hand specimen of core a sandstone appearance. The only other significant minerals in this rock are scattered disseminated euhedral magnetite crystals (<0.5mm across and <<1 modal%), common platy bladed hematite crystals in the chlorite matrix, and about 5 modal% of ragged patchy carbonate that occurs mainly overprinting parts of albite grains. This sample lacks garnet, epidote and muscovite.

SAMPLE NUMBER: RRDDH1 321.3m
SUMMARY DESCRIPTION

This sample is another albite-chlorite schist notably coarser-grained than the preceding sample, and with modally more disseminated magnetite porphyroblasts. Albite porphyroblasts to at least 2mm across are charged with small prismatic epidote crystals, but set in a matrix of green chlorite that shows strong foliation, with platy hematite crystals strongly stretched into the foliation in contrast to the equant euhedral magnetite grains, which have presumably grown post-foliation development. Carbonate forms small patches in albite, and well-formed sphene grains are not uncommon in the chlorite, some clearly intergrown with late magnetite porphyroblasts. Fine-grained streaks of polycrystalline quartz are stretched into the foliation, but not very common. The albite porphyroblasts often also contain particularly blue amphibole with almost colourless to bluish mauve pleochroism, presumably close to true glaucophane composition. As the porphyroblasts are a late syn-S2 phase in these rocks, this has important implication for the P-T history of this rock package.

SAMPLE NUMBER: RRDDH3 25.1m
SUMMARY DESCRIPTION
This sample is massive quartz-albite-chlorite-magnetite rock probably not foliated enough to be termed a schist. Most of the rock consists of inclusion-free quite ragged equant porphyroblasts of albite to at least 2mm across, although usually much smaller, all of which show fractures and strong subgrain recrystallization. Fine-grained polycrystalline quartz with a sugary texture fills interstices between albite porphyroblasts. Trains of small magnetite porphyroblasts and discontinuous narrow bands of chlorite define a weak foliation. Other minerals present include rare small green tourmaline prisms and several large zircon or monazite grains.

SAMPLE NUMBER: RRDDH3 36.1m
SUMMARY DESCRIPTION
This sample sections the sharp contact between a narrow granitoid interval and a dark chloritic host schist. The latter consists of ~40 modal% of rather stretched or flattened albite porphyroblasts that are stretched into the well-defined foliation, set in a green matrix composed of chlorite, green to greenish blue pleochroic amphibole, abundant fine-grained epidote and disseminated euhedral magnetite porphyroblasts (the latter ~1-2 modal%). A few porphyroblastic patches of coarse-grained epidote are present. The contact with the granitoid is parallel to the foliation in the schist, and is defined by a band of dense, dirty very fine-grained epidote. The granitoid consists of a ragged and recrystallized intergrowth of 1-2mm-sized albite, occasional microcline, and abundant fine-grained quartz, prismatic calcic amphibole with green to bluish green pleochroism, and quite large crystals of sphene. Minor phases include occasional granular epidote and disseminated well-formed but mainly small (<0.1mm across) magnetite porphyroblasts. The granitoid mineral assemblage is clearly thoroughly recrystallized under these upper greenschist facies conditions, although the granitoid has resisted foliation development

SAMPLE NUMBER: RRDDH3 36.4m
SUMMARY DESCRIPTION
This sample is identical to the mafic schist hosting the granitoid in the previous sample. It consists of a foliated intergrowth of albite, calcic amphibole, epidote, streaky brown microcrystalline sphene stretched along the foliation, and occasional (<<1 modal%) magnetite porphyroblasts. Well-formed strongly colour-zoned tourmaline crystals are common in this sample, although not modally significant. Veinlets include chlorite-hematite and fine-grained frilly quartz.

SAMPLE NUMBER: RRDDH3 52.6m
SUMMARY DESCRIPTION
This sample is another contact between a mafic schist and a granitoid segregation. The contact is close to the foliation direction of the schist, which consists of variably amphibole-rich or amphibole-poor quartz-albite rocks with abundant small albite porphyroblasts in the more mafic bands, but only occasional albite porphyroblasts in the more felsic quartz-rich bands. The latter, although being less mafic-crystal-rich than darker bands, still contain common chlorite, acicular long prismatic calcic amphiboles with the green to bluish-green pleochroism, and tiny granular epidote crystals. Both the more mafic and paler schistose domains contain disseminated but rather sparse magnetite porphyroblasts. The contact with the granitoid in this slide is sharp but wavy, and there is definitely no chilled margin of the granitoid, which consists of albite porphyroblasts, common prismatic to acicular calcic amphibole, and stretched sphene, with interstitial highly strained sugary

quartz. The more massive amphibole is almost colourless with only feint pleochroism, whereas the fringes and crystal margins are quite bluish green hornblende. Occasional euhedral pyrite (and probably magnetite) crystals occur in the granitoid, but are not common.

SAMPLE NUMBER: RRDDH3 56.5m
SUMMARY DESCRIPTION
This sample is across another contact between mafic schist and a granitoid unit. The mafic schist is essentially identical to those described above, except that it contains common large brown strongly pleochroic tourmaline porphyroblasts and minor olive biotite. The granitoid contact closely follows the foliation in the schist. The granitoid consists of a ragged intergrowth of coarser albite speckled with tiny epidote granules, and subordinate microcline, with large colourless to palest green amphibole crystals with ragged margins of bluish amphibole. Fine-grained polycrystalline and recrystallized quartz is common as an interstitial phase, and hosts neoblastic bluish-green amphibole. Dirty brown altered sphene grains are quite common, some up to almost 1mm long. Disseminated small pyrite and/or magnetite crystals are common. A few patches of green biotite are present in the granitoid, which also carries occasional brown to ash-grey pleochroic tourmaline crystals identical to those in the adjacent schist.

SAMPLE NUMBER: RRDDH3 62.7m
SUMMARY DESCRIPTION
This sample is across another contact between a schist (notably less mafic in this instance) and a granitoid. The contact in core is highly irregular, but foliation in the schist follows the contact closely. The schist is a quartzose foliated rock with foliation defined by both flattening of the quartz and albite and elongation directions in the 10-15 modal% of aligned chlorite, muscovite, olive biotite and calcic amphibole. Small epidote granules and disseminated fine-grained magnetite are also present, but are not abundant. The acicular amphibole is almost colourless. A 1mm-thick quartz-pyrite-chlorite vein cuts the schist parallel to the foliation. Remarkably zoned large tourmaline crystals with brown cores and greenish blue rims are not uncommon. The granitoid rock is essentially identical to those described above, with large ragged albite and lesser microcline, interstitial sugary quartz, large colourless to palest green amphibole with slightly bluish green fringes. Abundant well-formed sphene crystals are present in this granitoid rock, and some quite large euhedral zircon or monazite crystals are present.

SAMPLE NUMBER: RRDDH3 77.8m
SUMMARY DESCRIPTION
This polished sample is from a banded magnetite-pyrite interval several cm wide. Pyrite forms a cm-wide interior to magnetite bands in association with abundant chlorite and polycrystalline fine-grained carbonate. The contact between the pyrite and the magnetite aggregates is irregular, with occasional trails and veinlets of magnetite extending into the pyrite. Although both magnetite and pyrite also occur as discrete crystals in chlorite, the pyrite is often more reacted, and even 'exploded' and disaggregated. On weight of not very convincing evidence, I suggest that pyrite predated, and is being replaced by magnetite. Chalcopyrite is quite common within and adjacent to the pyrite, and occasional islands of chalcopyrite are set in the polycrystalline carbonate. Coarse books of what I first thought were white mica show alteration of a style more reminiscent of talc, and may be coarse talc crystals. An unusual but relatively common phase growing at the border between chlorite and

magnetite is a low birefringent relatively high-relief mineral with two cleavages *intersecting almost at right angles; it may be barite, but needs checking.*

SAMPLE NUMBER: RRDDH3 92.8m
SUMMARY DESCRIPTION

This sample is a mafic schist dominated by albite porphyroblasts about 0.2mm across set in a matrix of moderately foliated chlorite and calcic amphibole with common interstitial quartz, large streaky patches of brown microcrystalline epidote, and larger patches of calcic amphibole that shows almost colourless to pale greenish blue pleochroism. Disseminated small magnetite or pyrite crystals are not uncommon, but form <<<1 modal% of the rock. Occasional brown-grey strongly zoned tourmaline occurs as well-formed crystals to 0.5mm long. The size of the larger patches of amphibole in this rock are suggestive of derivation from augite precursor crystals in a dolerite or microgabbro, although no other textural evidence offers strong support for this due to the thorough recrystallization. Whatever the case, the protolith certainly was of broadly intermediate to mafic composition.

SAMPLE NUMBER: RRDDH3 111.1m
SUMMARY DESCRIPTION

This sample is the contact between a highly altered quartz-albite-chlorite-magnetite rock with a very weak foliation and a 1cm-thick magnetite-carbonate vein. The contact zone is a 5mm wide band of chlorite with fine-grained disseminated magnetite. The albite and quartz are present as equant but strained grains and grain aggregates around 0.1-0.4mm across set in a pale chloritic matrix with scattered spots and aggregates of *fine-grained magnetite.*

SAMPLE NUMBER: RRDDH3 133.7m
SUMMARY DESCRIPTION

This sample is a relatively coarse-grained granular gneissic holocrystalline intrusive rock with some preservation of the primary texture. It consists of an intergrowth of anhedral albite and strongly subgrain recrystallized quartz and microcline, with abundant patches of recrystallized calcic amphibole and well-formed fresh to dirty brown altered sphene crystals. Amphibole is pale bluish green to almost colourless, and occurs in masses of prismatic crystals through to acicular crystals. Tiny granules of epidote fill some albite crystals. The sample lacks chlorite. This is definitely a former dioritic holocrystalline intrusive rock that shows strong textural and mineralogical affinities to the 'granitic' bands described above in RRDDH3, although perhaps slightly more mafic crystal-rich.

SAMPLE NUMBER: RRDDH3 138.35m
SUMMARY DESCRIPTION

This sample is another holocrystalline intermediate intrusive rock that shows much stronger recrystallization and textural destruction than the preceding rock. It consists of at least 50 modal% of bluish-green amphibole with interstitial fine-grained granular quartz, albite riddled with small epidote granules, minor anhedral microcline grains, and big dirty brown altered sphene and FeTi oxides grains. Some of the larger amphiboles have decidedly lavender to bluish pleochroism in diffuse patches, and may approach glaucophane *compositions, although most neoblastic* euhedral amphibole is bluish green to green. Disseminated perfectly euhedral magnetite grains 0.1-0.2mm across are common (~1 modal%), and large strongly zoned, brown to grey pleochroic tourmaline occur intergrown with amphibole. The protolith of this rock was probably a mafic (leucogabbroic) to intermediate (dioritic) holocrystalline intrusive rock.

SAMPLE NUMBER: RRDDH3 152.65m
SUMMARY DESCRIPTION

This sample is massive homogeneous grey green rock that in thin section is seen to be composed of a fairly even-textured medium-grained intergrowth of quartz, albite, pleochroic green amphibole, sphene, common fine-grained epidote, and ragged-edged euhedral disseminated magnetite grains. The texture suggests thorough recrystallization of the protolith and no textural preservation, although the mineral assemblage is little different from the previous sample apart from an absence of lavender amphibole. It is difficult to determine whether this was a marginal phase of a intermediate-gabbroic intrusive unit, or whether it is derived from a volcaniclastic sandstone.

SAMPLE NUMBER: RRDDH3 181.1m
SUMMARY DESCRIPTION

This sample is a coarser-grained version of the preceding sample, with the only mineralogical difference being the presence of large porphyroblasts to at least 1mm long of clinozoisite transitional to epidote, and seams of green chlorite hosting acicular green amphibole and defining a weak foliation. A small amount of a dark isotropic anhedral phase may be Fe-poor sphalerite.

SAMPLE NUMBER: RRDDH3 189.85m
SUMMARY DESCRIPTION

This sample is medium-grained gneissic mafic to intermediate rock with sufficient primary textural preservation to indicate that it was an intrusive holocrystalline diorite or leucogabbro similar to the sample from 138.35m in this hole. Former mafic crystal sites to several mm long are now composed of very pale green to greenish blue pleochroic amphibole. All former plagioclase has recrystallized to a sugary intergrowth of quartz and albite, charged with fine-grained epidote. Former sphene or FeTi oxide grains more than 1mm long are replaced by a messy brown mixture that appears to be fine-grained epidote, carbonate and small sphene granules. Disseminated magnetite grains are common but not abundant. This was certainly a holocrystalline intrusive rock of probably diorite to leucogabbroic composition. It lacks the occasional lavender amphibole noted in the very similar rock from 138.35m.

SAMPLE NUMBER: RRDDH3 199.8m
SUMMARY DESCRIPTION

This sample is almost identical to sample from 92.8m in this hole, being a fairly massive quartz-albite-amphibole-chlorite-epidote-magnetite 'schist' with occasional patches and individual well-formed crystals of brown, strongly zoned tourmaline crystals intergrown with amphibole, and a minor fine-grained olive-khaki biotite in chlorite. Only a very weak foliation is present.

SAMPLE NUMBER: RRDDH3 212.25m
SUMMARY DESCRIPTION

This sample is a massive fairly fine-grained quartz-albite-chlorite-magnetite rock with significantly less amphibole and more chlorite than the preceding sample, and slightly more and coarser disseminated magnetite porphyroblasts. Mainly fine-grained epidote is a minor phase, and carbonate-quartz veinlets cut the slide. The weak foliation is defined by the mesh of chlorite and mainly acicular amphibole that pervades this sample.

SAMPLE NUMBER: RRDDH3 212.9m
SUMMARY DESCRIPTION

This sample is another contact of a granitoid unit against a weakly schistose rock almost identical to the preceding sample. The contact is defined by a band of chlorite that is irregular but broadly follows the foliation in the quartz-albite-chlorite rock adjacent to the granitoid. The granitoid consists of a ragged medium-grained holocrystalline intergrowth of recrystallized sugary quartz, blocky albite and microcline with strong subgrain development, and subordinate acicular pale green to bluish green pleochroic amphibole, minor chlorite, and large apparently unaltered subhedral sphene crystals. Interstitial chlorite and carbonate are not uncommon. This granitoid is very similar petrographically to those in the upper part of the hole (36.1 and 52.6m).

SAMPLE NUMBER: RRDDH3 218.4m
SUMMARY DESCRIPTION

This sample is a medium-grained mafic to intermediate composition gneissic rock almost certainly derived from a holocrystalline intrusive protolith. The sample is petrographically almost identical to that from 189.2m in this hole, being composed of coarse patches of calcic amphibole with colourless to pale green cores and ragged recrystallized margins, in a matrix composed of finer-grained recrystallized albite, quartz amphibole, epidote, and dirty brown carbonate-sphene intergrowths after former FeTi oxides. Cores of some bigger amphiboles have decidedly lavender colours and lack the greenish pleochroic tints of most amphiboles in this rock. Khaki biotite is a minor phase in this sample.

SAMPLE NUMBER: RRDDH3 237.3m
SUMMARY DESCRIPTION

This pale grey-cream sample has a very quartzitic appearance in core and hand specimen. In thin section, it is seen to be a massive fine- to medium-grained albite-quartz rock dominated by very ragged and recrystallized quartz and albite, showing abundant granulation and subgrain recrystallization, and minor microcline, almost colourless chlorite, spongy carbonate, and disseminated magnetite.

SAMPLE NUMBER: RRDDH3 249.26m
SUMMARY DESCRIPTION

This sample is a complex, fractured and altered sample that was probably originally a mafic to intermediate intrusive similar to those described above. However all amphibole has been replaced, often faithfully with respect to grain shape, by carbonate, and most quartz and albite is strongly granulated and recrystallized to fine-grained aggregates. Former FeTi oxide grains altered to messy brown carbonate and fine-grained sphene are quite common and provide the only textural clue to the protolith of this rock.

SAMPLE NUMBER: RRDDH3 254.65m
SUMMARY DESCRIPTION

This sample is another weakly schistose massive quartz-albite-chlorite rock with common disseminated well-formed magnetite, minor epidote, bluish-green to green pleochroic amphibole, and brittle fractures filled by clear carbonate. The rock is very similar petrographically and in hand specimen to those from 25.1m and 92.8m *in this hole, and would undoubtedly derive from the same protolith.*

SAMPLE NUMBER: RRDDH13 262.5m
SUMMARY DESCRIPTION

This sample sections the contact between what is probably a metagabbroic intrusive, and a 8cm wide screen of foliated mafic schist that occurs between the metagabbro and a similar unit deeper in the hole. The schist is very similar petrographically to the other mafic schists in this hole, being composed of albite porphyroblasts set in a green chlorite-amphibole matrix with abundant granular yellow epidote, common euhedral magnetite porphyroblasts, and spotty interstitial quartz. Curved microshearzones have eliminated albite and quartz, and consist entirely of green amphibole and spotty epidote. Some zones in which fresh sphene and brownish tourmaline occur as dispersed crystals or crystal clusters are present. Approaching the contact, the grainsize increases, most notably those of albite and amphibole, and the albite becomes much more elongate as a pronounced foliation develops. The contact of the gabbro directly parallels the foliation in the schist, and is marked by a narrow zone composed entirely of fine-grained epidote and abundant brownish-grey tourmaline. In the gabbro, only large former augite sites have retained some textural preservation, now pseudomorphed by ragged-edged patches of almost colourless to pale bluish green amphibole. The remainder of the rock is strongly recrystallized texturally and mineralogically, and is composed of a weakly foliated *albite-quartz-chlorite-amphibole-epidote-dirty sphene-tourmaline* assemblage that is basically identical to the mafic schists in this hole.

SAMPLE NUMBER: RRDDH3 269.9m
SUMMARY DESCRIPTION

This sample is almost identical to the preceding one in that it sections a contact between a metagabbroic interval and a mafic schist. The latter is identical to that described above. The contact appears to again follow closely the foliation in the schist, which is only weakly developed away from the contact. As above, the metagabbro tends to retain the former augite crystal sites (as bluish-green to colourless amphibole), but the texture of the rest of the rock is thoroughly recrystallized. Several calcite veinlets appear to cut across all structures in this sample; in places, these contain elongate bladed hematite crystals.

SAMPLE NUMBER: RRDDH3 283.6m
SUMMARY DESCRIPTION

This sample is a medium-grained mafic to intermediate gneissic rock with a strong flattening/stretching evident in core. I am confident that this is a metagabbroic unit, as narrow zones in the rock show much less grainsize reduction than adjacent strongly foliated domains and retain former augite sites despite their having been replaced by colourless to pale green amphibole. Large messy brown former FeTi oxide sites are replaced by messy brown very fine-grained carbonate-sphene aggregates, and all are set in a fine-grained quartz-albite-amphibole-epidote-chlorite matrix with *variably developed foliation. In more foliated portions* of the rock, blocky former augite sites are flattened and epidote and sphene-carbonate aggregates after FeTi oxides are strongly stretched out into the foliation. Much of the foliated rock consists of epidote-dominated and amphibole-dominated domains. Strongly zoned olive green to blue pleochroic tourmaline is present as crystals that occur intermittently along particular foliation planes.

Appendices 7, 8 & 9 of Turner, N.J. 1997. Exploration Licence No 43/94 Corinna, western Tasmania. Annual Report to 4.1.98. Goldstream Mining NL and Titan Resources NL. Volume 3 of 3 of the annual report.

Appendix 7: Leaman, D.E. 1996. Assessment of magnetic anomalies, Corinna area, Tasmania. Report to Goldstream Mining NL.

Appendix 8: Broadbent, B. 1997. Bore hole PEM Survey. Lefroy Ridge East DDH2, Outer Rim Exploration Services. Report to Goldstream Mining NL.

Appendix 9: Relief shaded total magnetic intensity, digital terrain and various processed formats of Goldstream's detailed aeromagnetics for Lefroy Ridge East, Lucy Spur, Rocky River Prospects. Pitt Research, Adelaide.

This volume was assembled by N.J. Turner Geological Services Pty Ltd. December, 1997.

254171

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254172

Goldstream - Titan Joint Venture

Corinna Project

EL43/94: Annual Report to 4.1.98

APPENDIX 7

Leaman, D.E. 1996. Assessment of magnetic anomalies, Corinna area, Tasmania. Report to Goldstream Mining NL

254173

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Telephone: (03) 6244 1233
Fax: (03) 6244 6674

ASSESSMENT OF MAGNETIC ANOMALIES
CORINNA AREA, TASMANIA

for

GOLDSTREAM MINING N L

by

D E Leaman

Nov 1996

CORINNA

254174

INTRODUCTION

Evaluation of magnetic responses in three parts of the Corinna licence area, held by Goldstream Mining NL, was requested:-

a) Lefroy Ridge area, approx 340 500 mE, 5380-5382 000 mN

b) Lucy Spur area, centred approx 347 000 mE, 5383 500 mN

c) Rocky River area, a large feature extending through 349 500 mE, 5390 000 mN.

Data were made available, from a new aeromagnetic survey for Goldstream Mining, in two forms - detailed contours and digital line data.

LEFROY RIDGE AREA

The principal anomalies in this region trend essentially N-S but curl slightly east of north, north of 5382 000 mN. The anomalies specified for study are aligned - see Figure 1.

Examination of the observed data indicates that negligible distortion is present in the data due to clearance or terrain effects with a retained clearance of approximately 50 metres. Many gradients imply virtual exposure of the magnetic sources, i.e., within 10-20 m of surface. Qualitative rules suggest dips to the east.

Guide rule estimates have been verified by a full model check and results are presented for three lines (Figures 2, 3 and 4). The diagrams provide all details of source positions, widths and contrasts for the inferred sources. Each diagram is defined in terms of a northing and an easting range.

The implied dip is between 70 and 75 degrees to the east. The models use a value of 72 degrees.

Depth estimates (base of sources) is not particularly sensitive but all extend more than 500 or 600 m. The models use 1000 m as a guide. The assessment of the features in this area is relatively direct. There are multiple sources in each profile and, in the more northern profiles especially, an obvious regional effect. This effect produces an apparent step in character across the obvious anomalous region and it is due to the negative part of the large response at the northern limit of the survey (see Figure 1). This effect has been fully compensated for line 5381 500 N (Figure 4) but not for the other lines. Figure 2 (for line 5380 500 N) retains evidence of the slight regional contribution at the southern end of the anomalous feature and the solution is not seriously affected by ignoring it. Figure 3 (for line 5381 000 N), however, offers a solution in which some internal compensation is attempted. This compensation then reveals that three gross sources are also present at this northing - a fact which might not have been determined otherwise. The integration of multiple sources limits the reliability of simpler or automatic procedures for dip and width estimation.

The model curves have been fitted as closely as can be jusified by the data and gradients. A shift has been noted between the absolute zero of the model field and the observed residual field. This suggests that the survey has not been absolutely compensated to a true IGRF value at the base station. While this does not affect the form of the field mapped it does have severe implications for some aspects of interpretation and contractors should state what value they have assumed for a base station and compare this value with the IGRF value for the date of survey. In this case an offset of 70 nT is implied. This value should be extracted, or used, uniformly across the entire data set - if true. (Other parts of the survey area suggest it is.)

The indicated magnetic contrasts suggest rocks with a significant iron content, perhaps weathered or altered mafics. None are more magnetic than many basalts.

LUCY SPUR AREA

This region contains relatively minor , generally isolated point source responses although there is a suggestion of a NNE trend on the eastern face of the group. A nearly two dimensional anomaly lies at the southern extension of this trend. See Figure 5.

Some comments may be offered on the location and width of various sources.

a) Nominal position: 346 650 E/5384 280 N. Part is very shallow (<15 m) and multiple with a length of about 50 m (certainly less than 100 m) which dips east. The maximum width of the body is defined by 346 600 to 346 780 mE.

b) Nominal position: 346 500 E/5383 290 N. Part is very shallow (<15 m) with an uncertain dip and a length of about 150 m (less than 250 m max.). The maximum width of the body is defined by 346 420 to 346 560 mE.

c) Nominal position: 347 250 E/5383 300 N. The body lies at modest depth (up to 40 m to top) but no dip estimate is possible. Its length is less than 150 m.

The more two dimensional element can be forward modelled as a check of inferred parameters and this is shown in Figure 6 for 5382 500 mN. This reveals a source of similar character and properties to those interpreted in the Lefroy Ridge area. A steep easterly dip is indicated. This is unlikely to be much shallower than 70 degrees. The model shows that the source virtually crops out.
The model also compensates for gross regional effects due to the large magnetic source to the east. This feature is examined further

254176

below in the Rocky River area but this profile requires that the western face of this body dip west. This is a significant contrast to all other dips in the area.

ROCKY RIVER ZONE

The Rocky River area contains an extremely large anomaly which is not fully defined by the data set available (Figure 7). The principal anomaly, near 5390 000 mN), is an extension of a long, narrow feature which extends almost N-S into the Rocky River region.

Inspection of Figure 7 shows that the main anomaly may be an extension of the southern trend, or is an offset from the northern trend. Either possibility shows that some unit continuity is involved and that some dislocation or abnormality is also present. The main feature is certainly compound and this factor complicates simple analysis. The actual data is far from the nominal specification for the survey due to local terrain. Fortunately this does not cause any severe problems for interpretation due to the enormous amplitude of the anomalies (2000-10000 nT).

Three samples of the analysis undertaken are provided here. Each is representative of the principal features observed, and inferred.

Figures 8 and 9 suggest the structure implied across the apparently simpler profile and anomaly trend south of the Rocky River zone at 5387 000 mN.
The solution in Figure 8 is consistent with the implications of Figure 6 that the western face of this eastern anomaly dips west at more than 60 degrees (probably more than 70 degrees). No reasonable fit of the western face of the anomaly is possible, without incorporating unsubstantiated and not indicated remanence effects in the sources, if all dips are to the east. The intensely magnetic sources do, however, dip east with a dip very similar to that found in the other areas - as interpreted above. The core of the east-dipping unit is very magnetic and clearly has a high magnetite content and is quite unlike any normal mafic rock. The source is either an ironstone or an ultramafic or something which equates these.
The fit of the eastern end of the profile is poor and additional magnetic materials may be present to the east. There seems no surface expression of these and an alternative assessment is shown in Figure 9. As the dip of the eastern limb is shallowed at depth the deficiency between observed and calculated profiles is reduced. If the limb curvature commences at a depth of 200 m and becomes shallower than shown then there is no fit mismatch. This model should therefore be taken as a limiting case; that of maximum dips and depth.
The form of the solution implies either the existence of a fold axis breakage, fault or detachment. In each possibility the zone defined between 349 130 and 349 170 may be very important in exploration terms.

254177

Assessment of profiles at 5389 000 mN, where the compound character of the anomaly is more evident, is shown in Figures 10 and 11.
The two model solutions contrast some of the issues discussed in the previous profile two kilometres to the south.
The solutions generally agree on the magnetisation, width and upper depth of the sources. All sources are intensely magnetised and are clearly either the equivalent of ultramafics, highly metamorphosed and oxidised rocks, or ironstones approaching iron ore.

As before, it is difficult to find a solution in which all dips are to the east. The more subtle aspects of the western side of the response are best fitted with a westerly dip. All dips are likely to be of the order of 70 degrees. The ore package is in the eastern limb of the structure.

Figure 12 presents a solution for the core of the Rocky River zone. This solution is a full fit and suggests that the style of previous models is valid. This solution indicates that the easterly dips are a little more than 70 degrees but that the western limb dips at a significantly lower angle (perhaps of the order of 60-65 degrees).
All magnetisations are extremely high and metamorphism/alteration effects are maximised in this zone. Iron ore is present. There is little suggestion of any gap in properties or alteration where the limbs abut.

Report submitted by D.E. Leaman, B.Sc., Ph.D.,
on behalf of Leaman Geophysics.

D Leaman

Nov. 15., 1996

254178

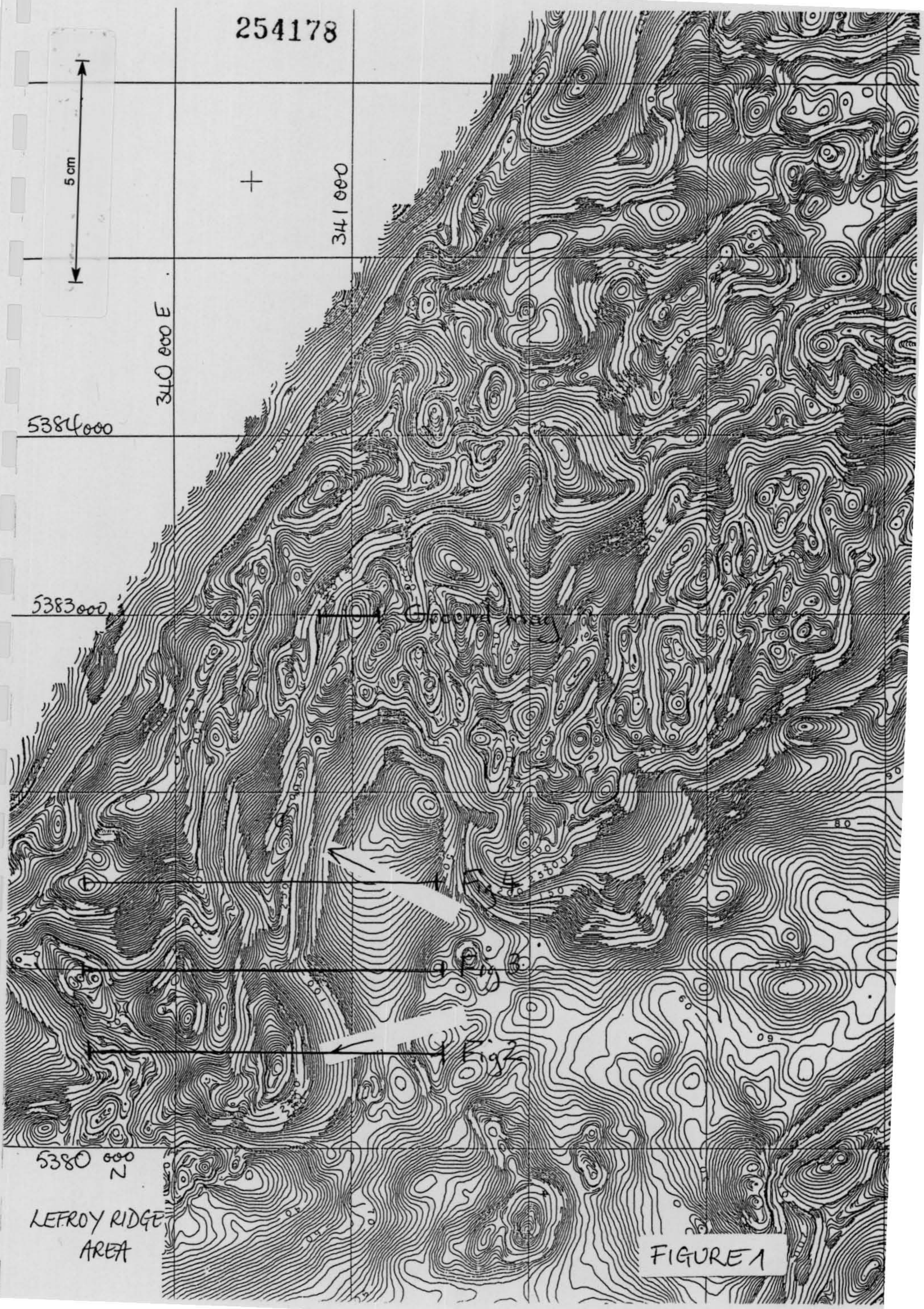
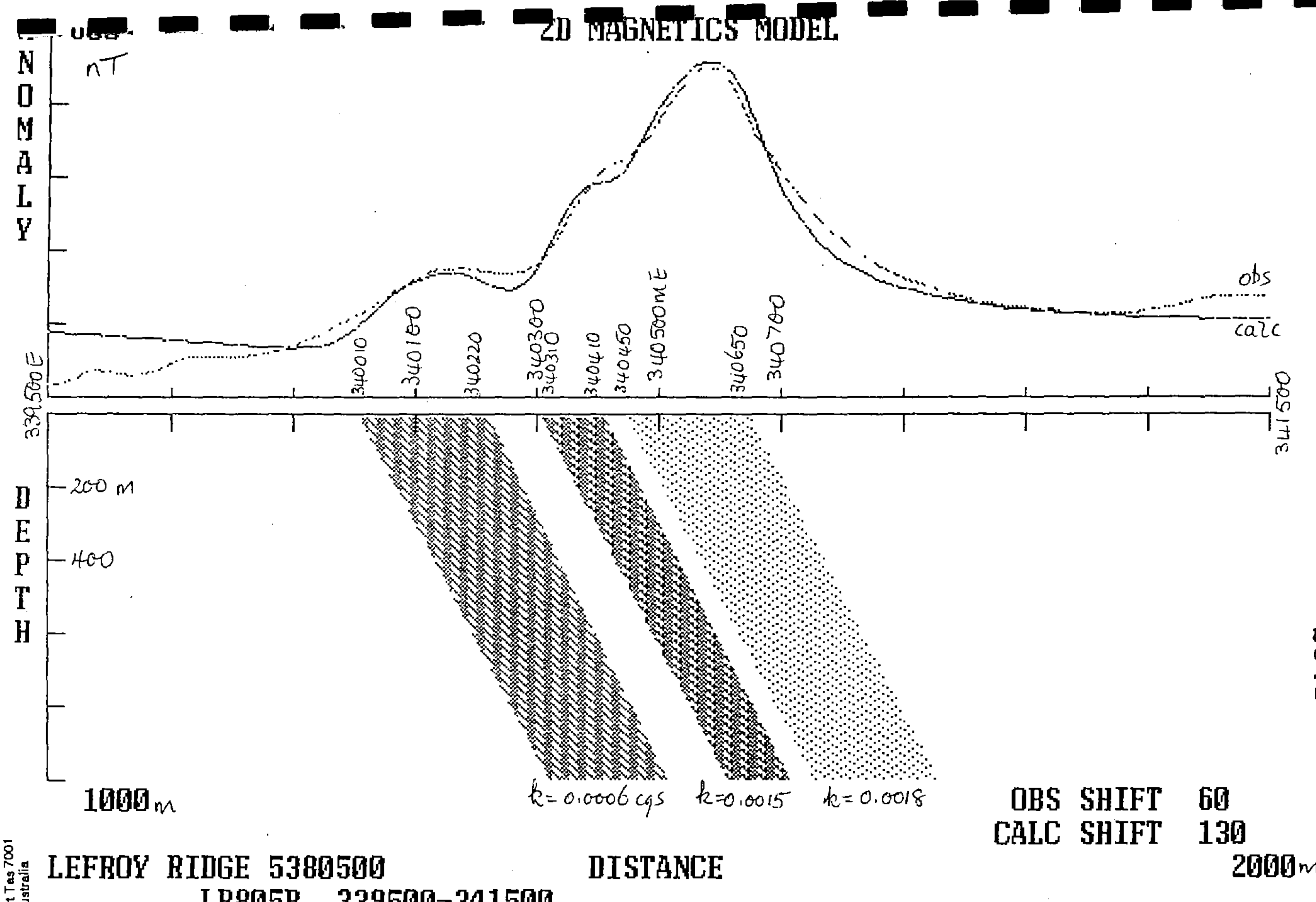


FIGURE 1



254179

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FIGURE 2

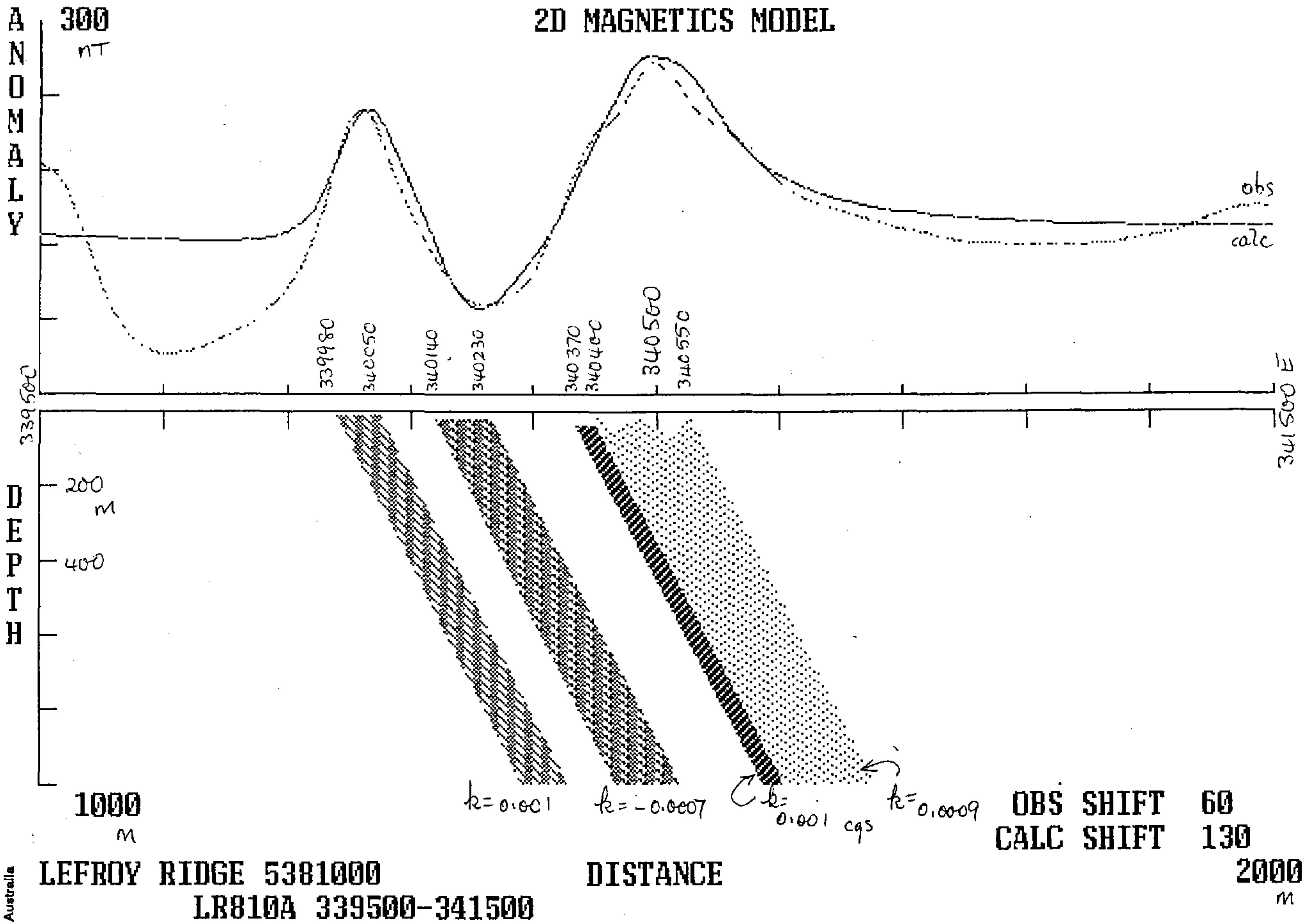

FIGURE 3

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254180

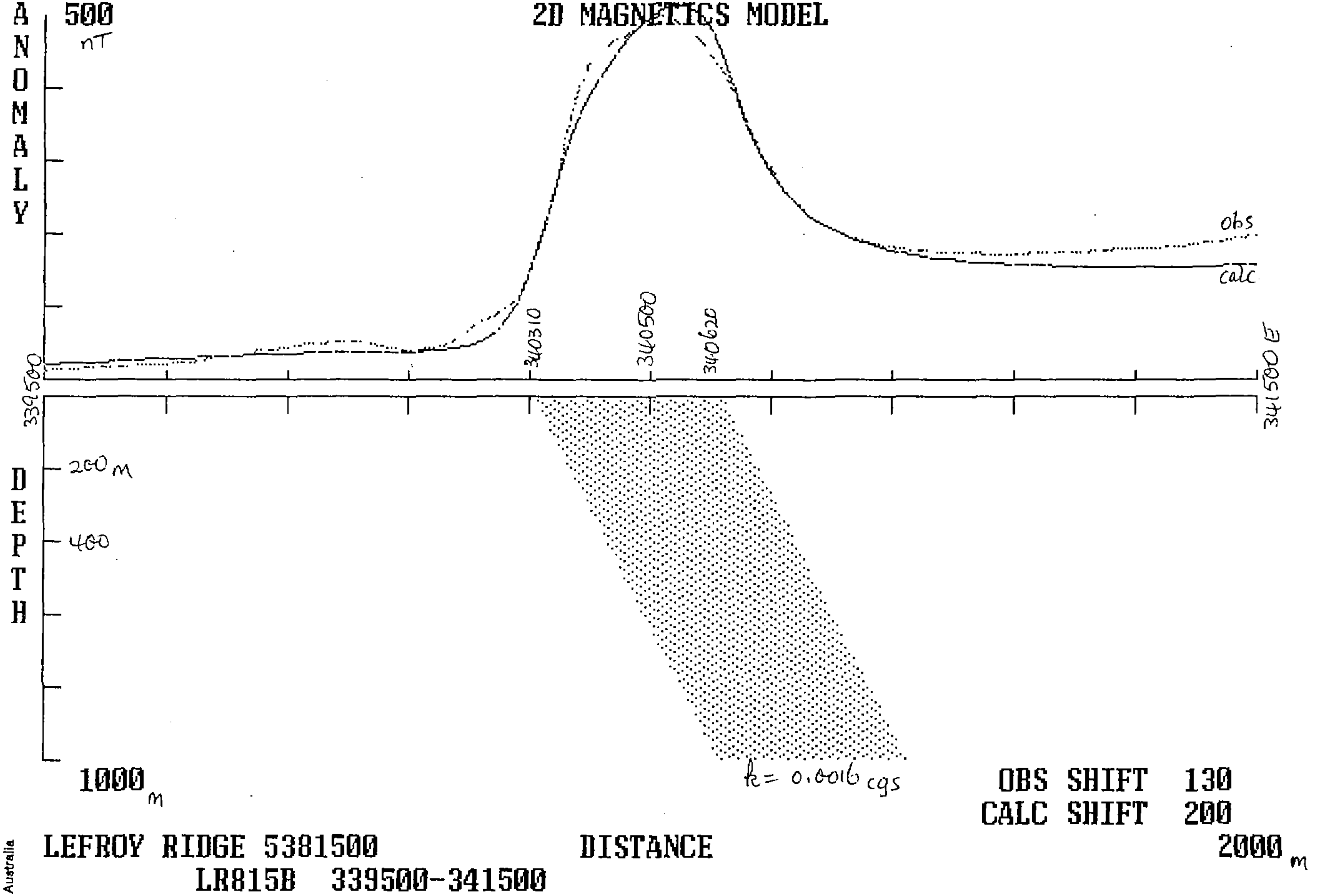

FIGURE 4

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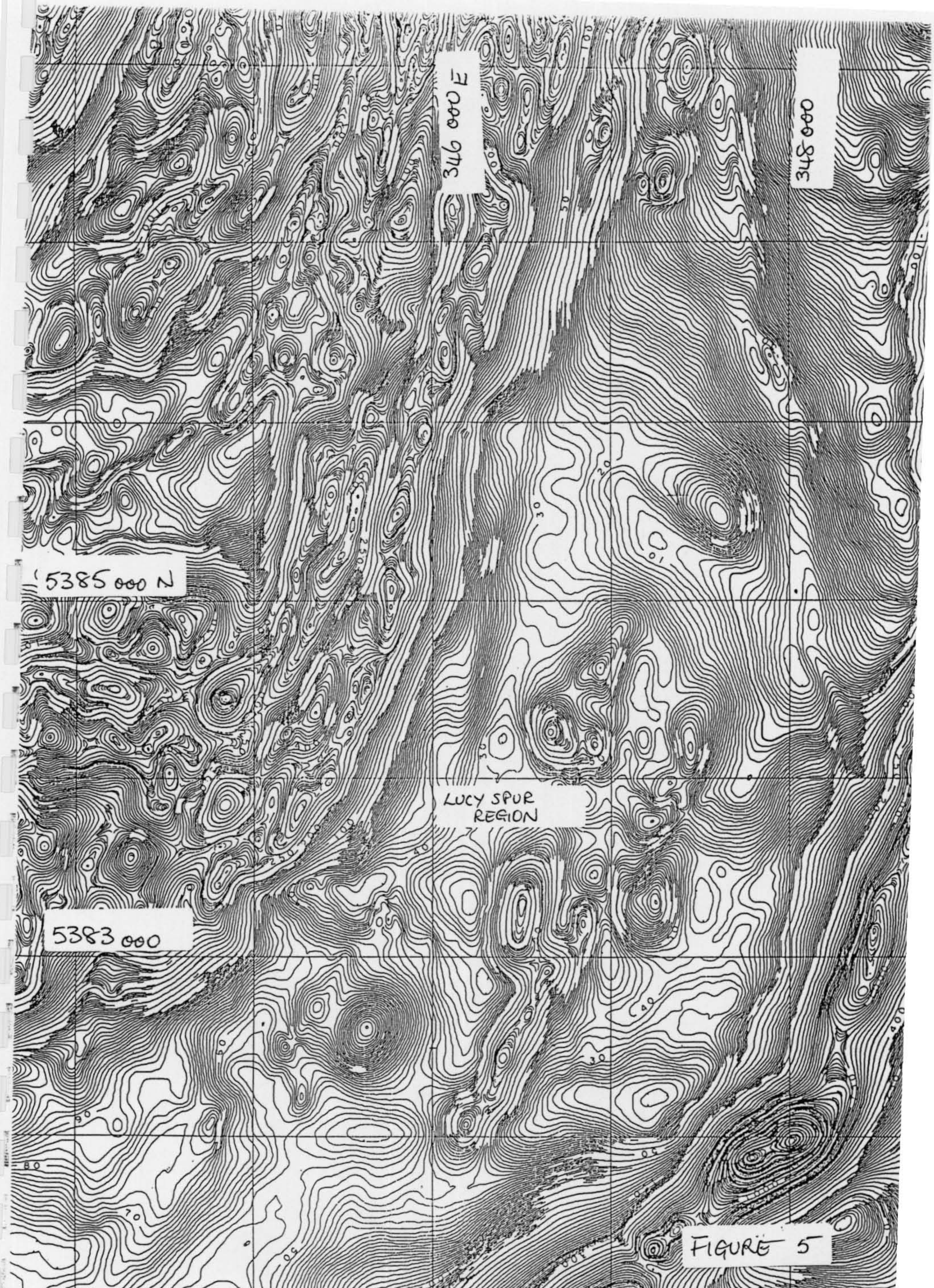

FIGURE 5

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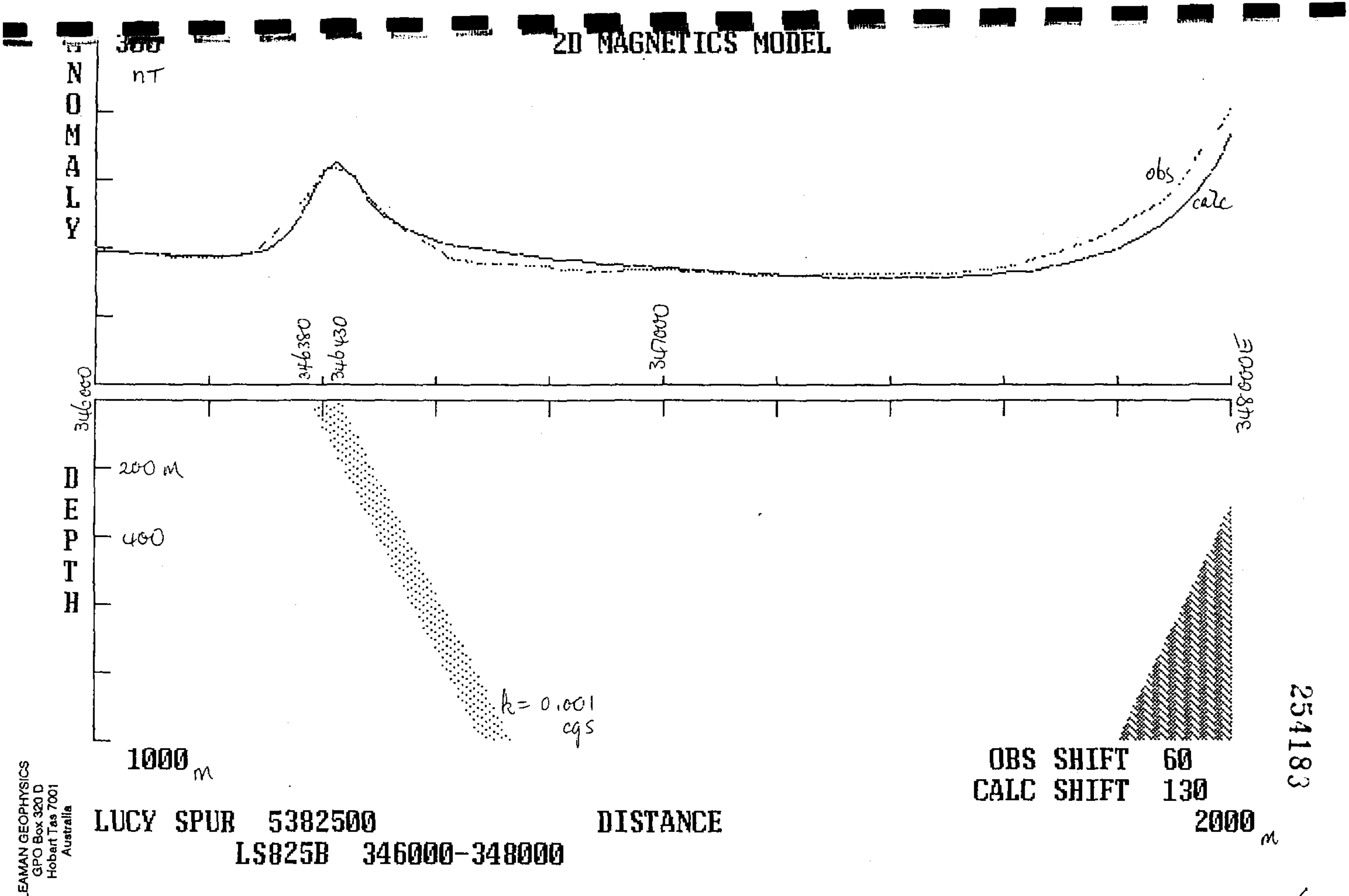

254183

FIGURE 6

254184

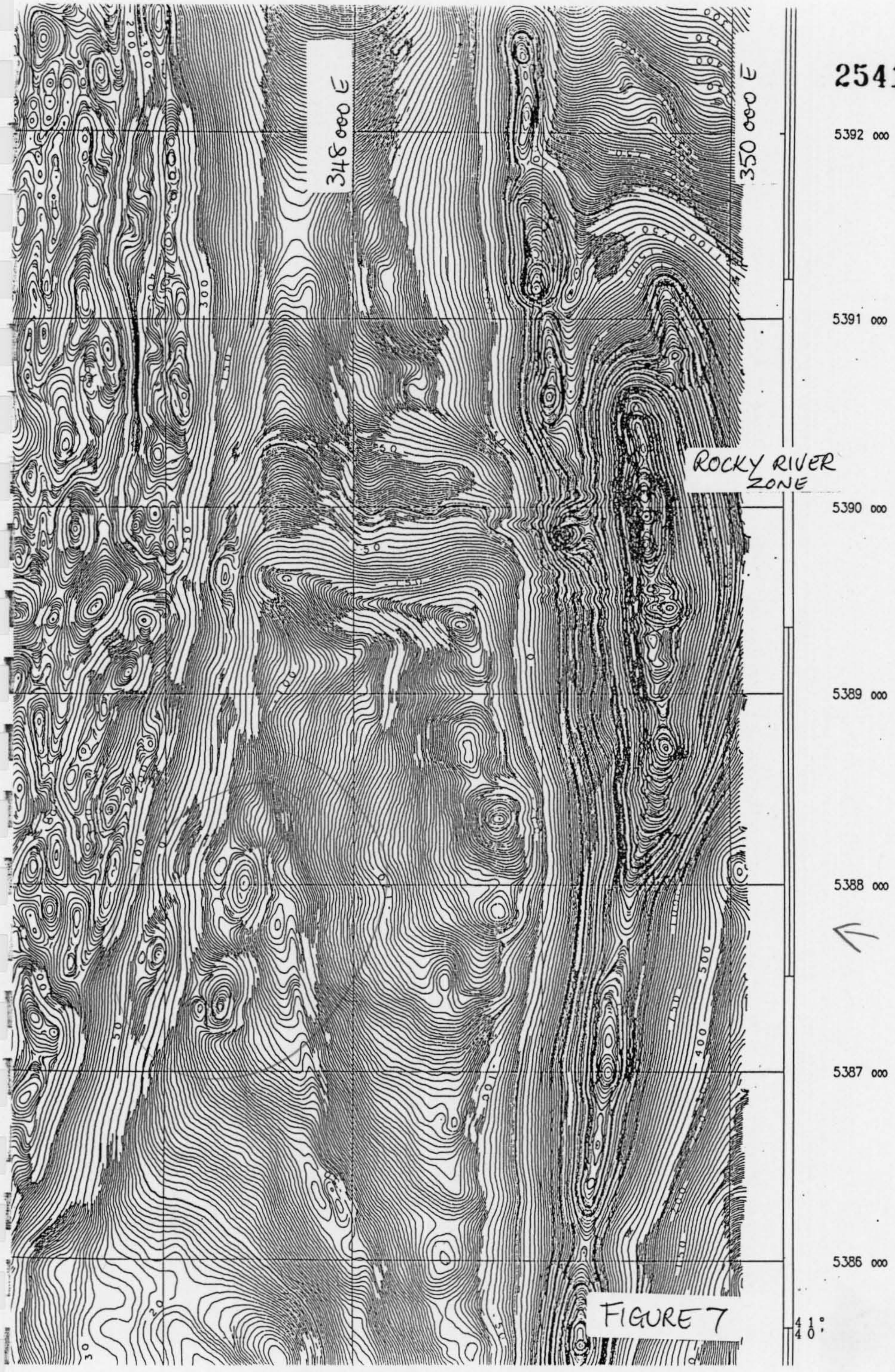

FIGURE 7

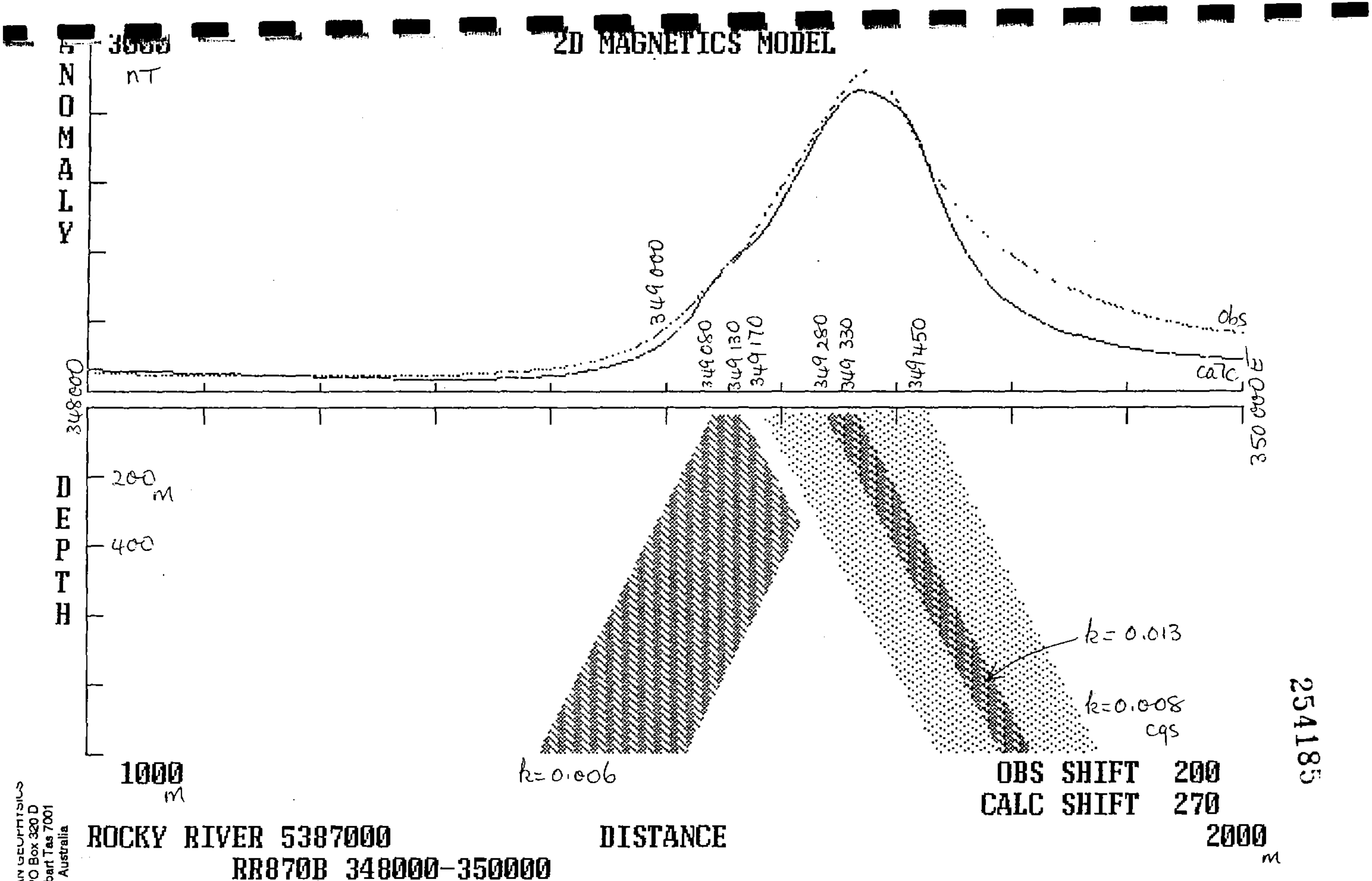
2D MAGNETICS MODEL
ANOMALY
3000
nT
349 000
349 080
349 130
349 170
349 280
349 330
349 450
348 000
350 000 E
obs
calc
DEPTH
200 m
400
k=0.006
k=0.013
k=0.008 cgs
1000 m
OBS SHIFT 200
CALC SHIFT 270
ROCKY RIVER 5387000
DISTANCE
2000 m
RR870B 348000-350000
GPO Box 320 D
Hobart Tas 7001
Australia
254185

FIGURE 8

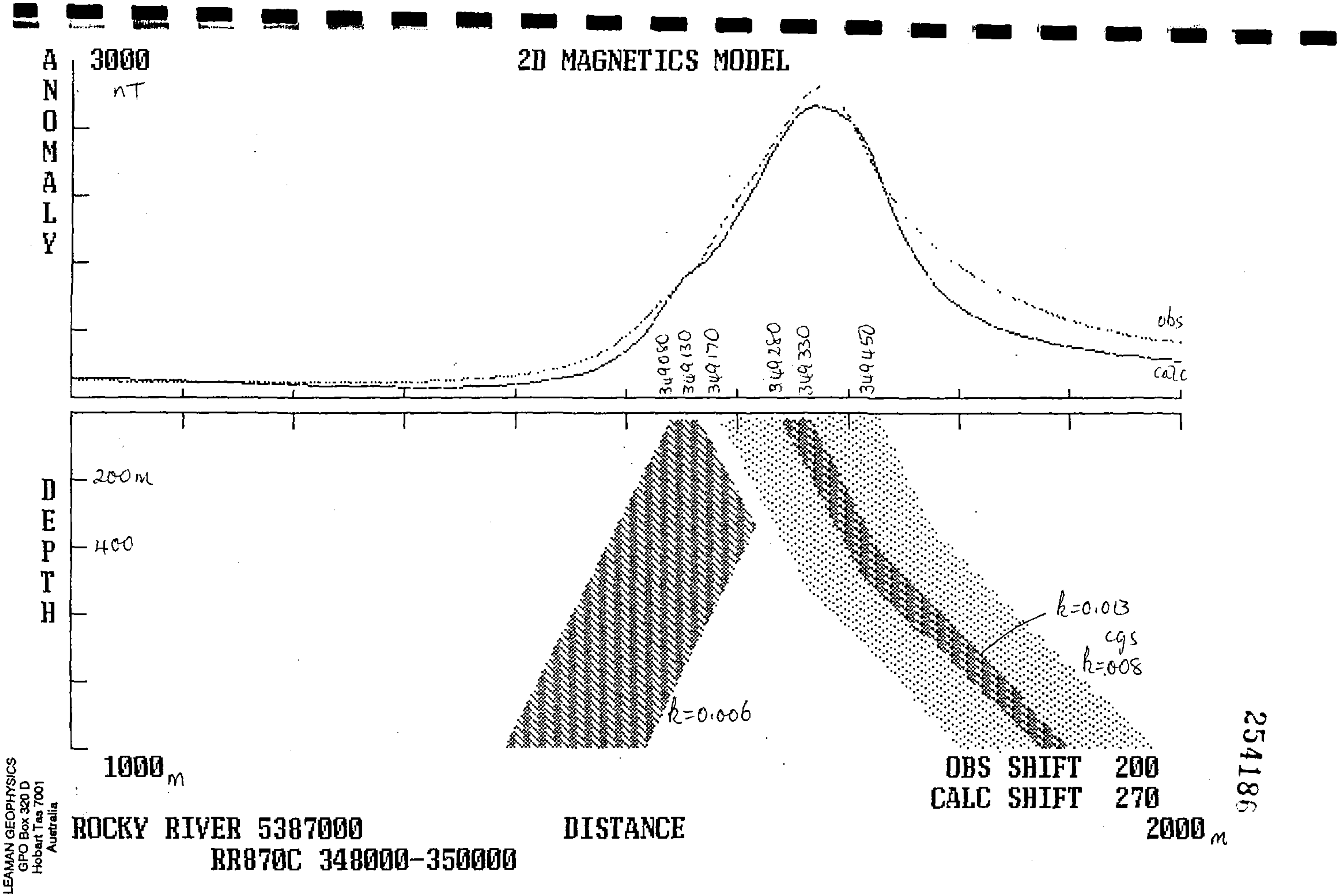

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FIGURE 9

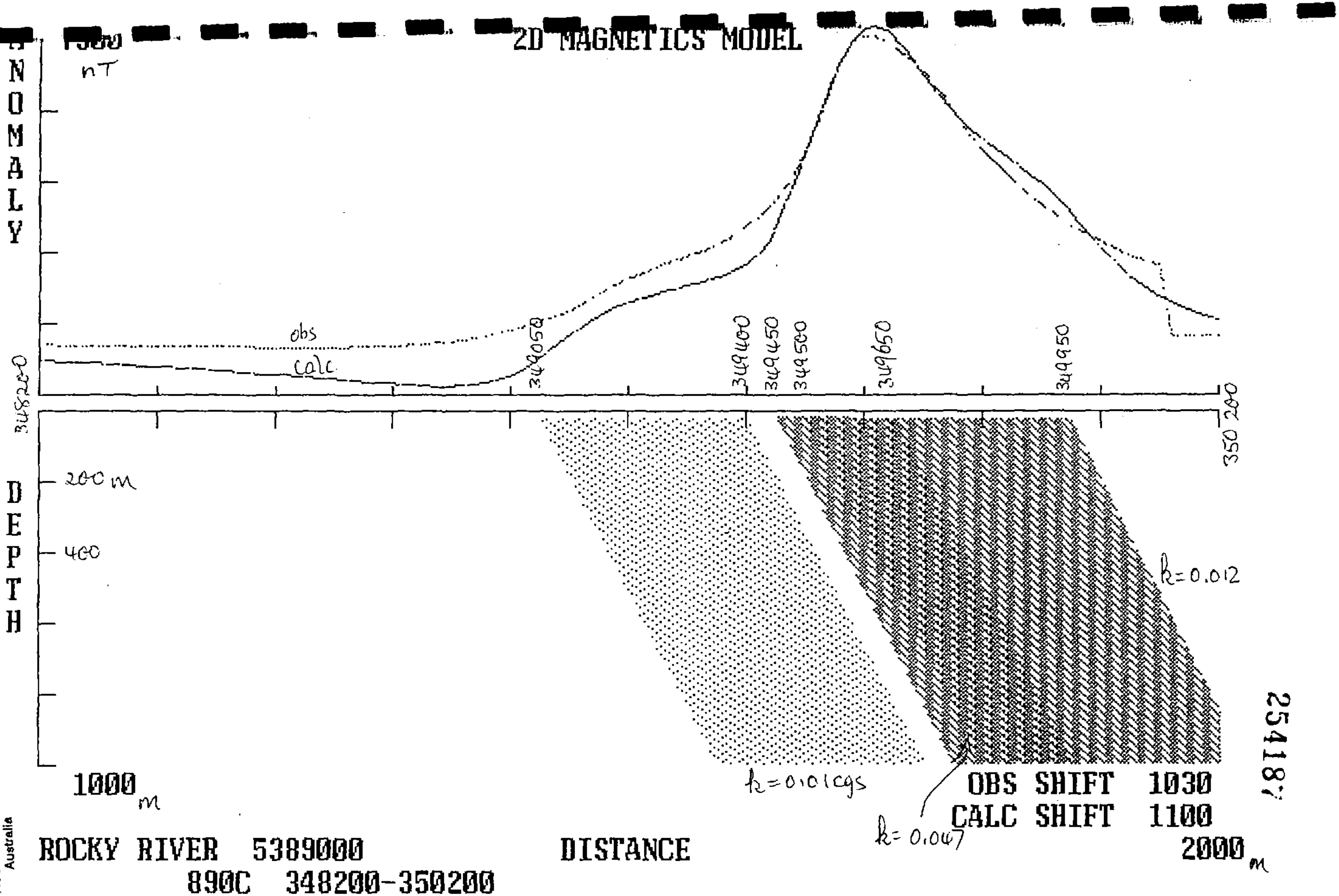

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FIGURE 10

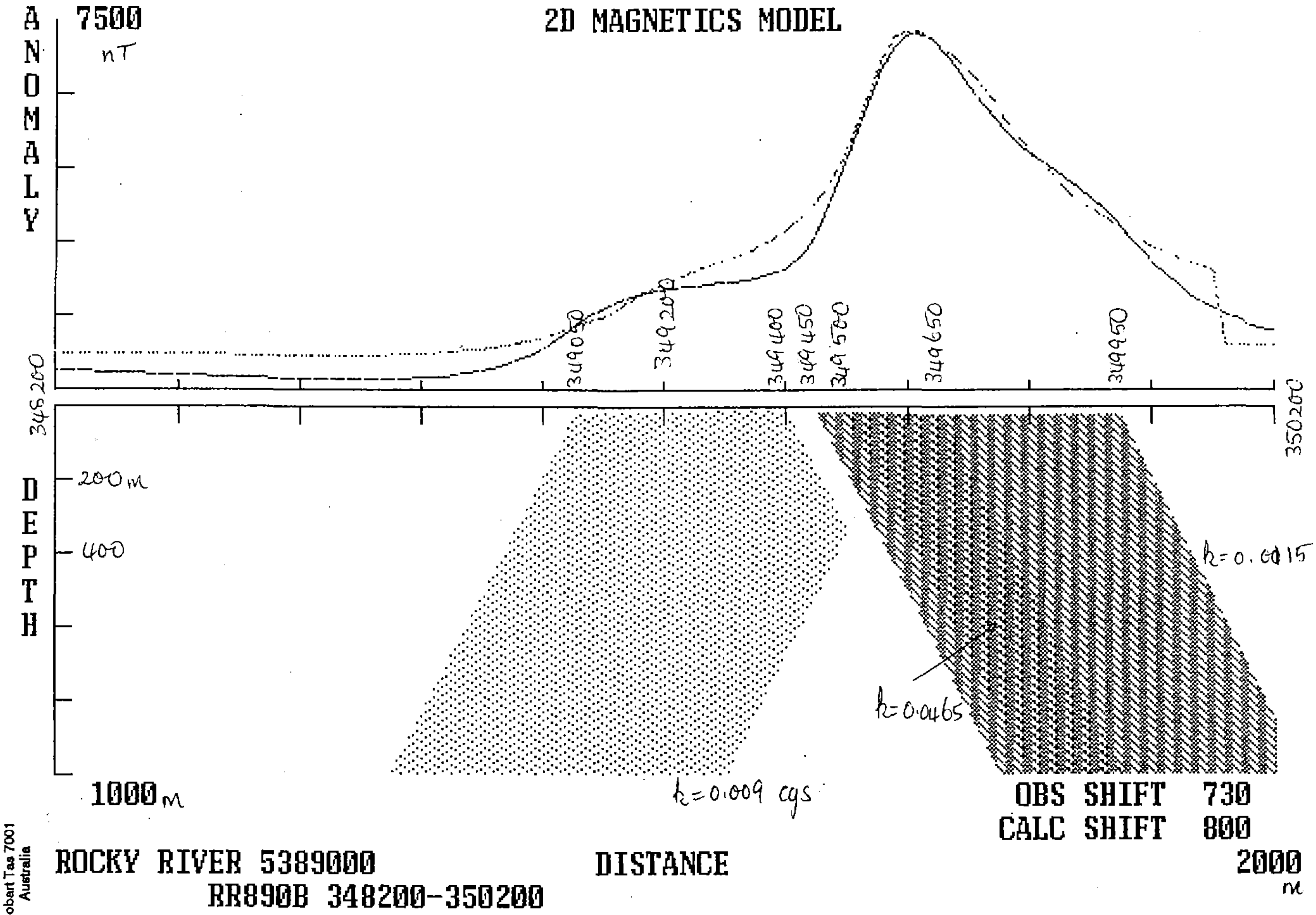

FIGURE 11

254188

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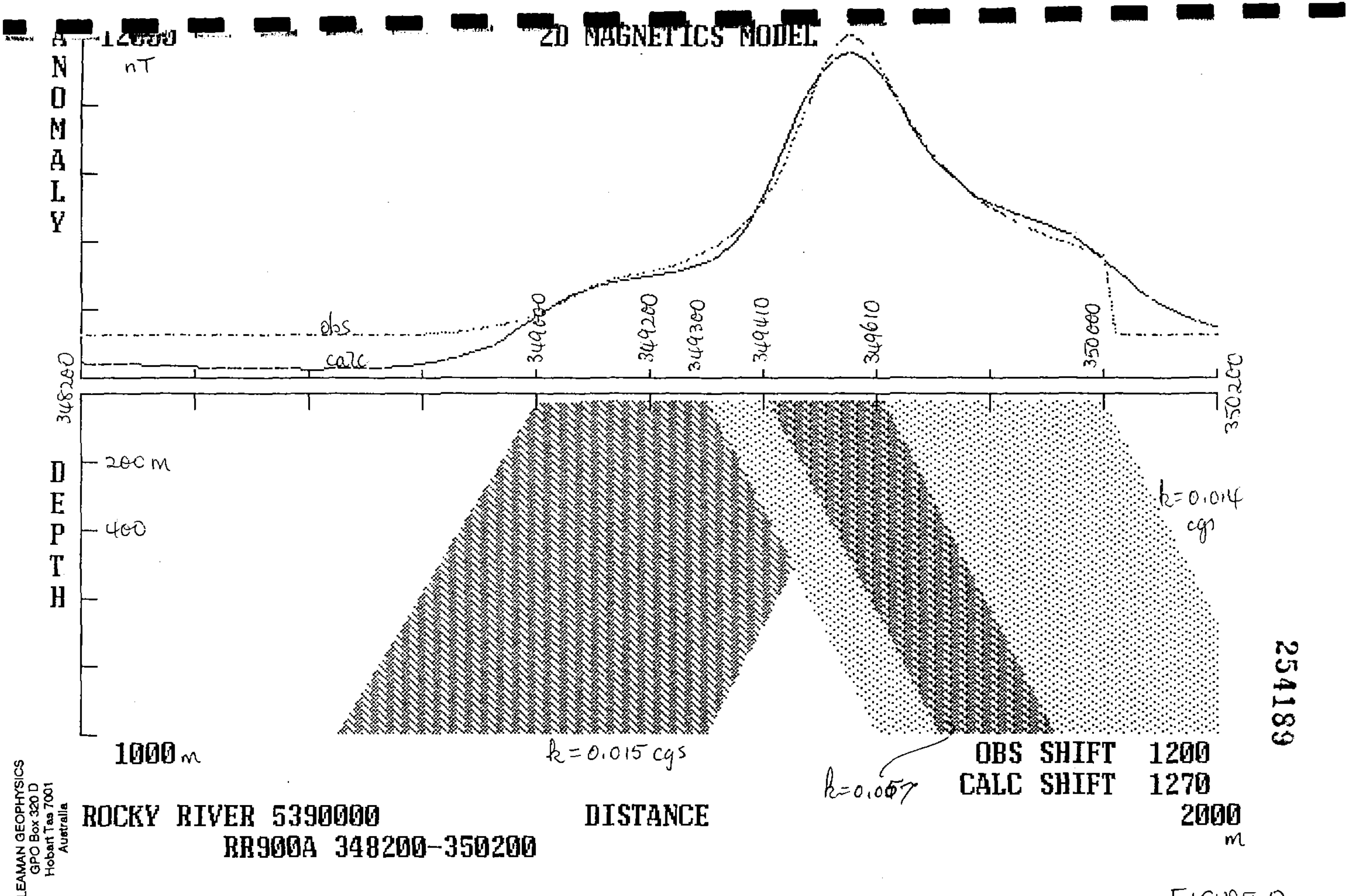

254189

FIGURE 12

254190

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EL43/94: Annual Report to 4.1.98

APPENDIX 8

Broadbent, B. 1997. Bore hole PEM Survey. Lefroy Ridge East DDH2, Outer Rim Exploration Services. Report to Goldstream Mining NL.

254191

OUTER-RIM EXPLORATION SERVICES

ACN 059 220 192

Geophysical Contracting Services

100% Australian Owned

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AITKENVALE, QLD. 4814

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Volume 1 of 1

Client : Goldstream Mining N.L.

Prospect : Lefroy.

Area : Rosebery, Tas.

Survey : Borehole PEM Survey

Survey Period : 16th February 1997.

Operator : Bruce Broadbent

DAILY LOGS: Goldstream Mining NL - February, 1997

DATE	**COMMENT**		**CHARGES**
16-2-97	Drove out to site near Corinna and met the field assistants, who helped us carry the equipment the kilometre into the hole. The loop was set up, the survey commenced and completed, for all three components. We then carried the gear all the way back out to the road, pulled in the loop, and crossed the river at 6:00pm.		

SURVEY PARAMETERS:

Loop LR1	:200 x 300m 5000E, 4000N; 5200E, 4000N; 5200E, 4300N; 5000E, 4300N.
Current	:10 Amps
Time Base	:20 ms
Ramp Time	:0.5ms
Sync	:Cable
Hole No.	**:DH-2** 5050E, 4200N
Depth	:200m
Channels	:20
Components	:Z,X,Y

		1 Survey day	$1250:00
		1 Field Assist. day	$ 180:00
17-2-97	Drove to Devonport to catch the boat back to Melbourne.		
		1/2 Mob. day	$ 275.00

APPENDIX

254194

CRONE PULSE EM SYSTEM

SYSTEM DESCRIPTION

The Crone Pulse EM system is a time domain electromagnetic method (TDEM) that utilizes an alternating pulsed primary current with a controlled shut-off and measures the rate of decay of the induced secondary field across a series of time windows during the off-time. The system uses a transmit loop of any size or shape. A portable power source feeds a transmitter which provides a precise current waveform through the loop. The receiver apparatus is moved along surface lines or down boreholes.

The transmitter cycle consists of slowly increasing the current over a few milliseconds, a constant current, abrupt linear termination of the current, and finally zero current for a selected length of time in milliseconds. The EMF created by the shutting-off of the current induces eddy currents in nearby conductive material thus setting-up a secondary magnetic field. When the primary field is terminated, this magnetic field will decay with time. The amplitude of the secondary field and the decay rate are dependent on the quality and size of the conductor. The receiver, which is synchronized to the off-time of the transmitter, measures this transient magnetic field where it cuts the surface coil or borehole probe. These readings are across fixed time windows or "channels".

SYSTEM TERMINOLOGY

Ramp Time

"Ramp time" refers to the controlled shut-off of the transmitter current. Three ramp times are selectable by the operator; 0.5ms, 1.0ms, and 1.5ms. By controlling the shut-off rather than having it depend on the loop size and current ensures that the same waveform is maintained for different loops so data can be properly compared.

The 1.5ms ramp is the normally used setting for good conductors. It keeps the early channel responses on scale and decreases the chance of overload. The faster ramp times of 1.0ms and 0.5ms will enhance the early time responses. This can be useful for weak conductors when data from the higher end of the frequency spectrum is desired.

Time Base

Time base is the length of time the transmitter current is off (it includes the ramp time). This also equals the on time of the current. Eight time bases are selectable by the operator. They include the original time bases used in the analog system as well as time bases to eliminate the effects of powerline interference. The eight time bases are as follows: compatible to analog Rx: 10.89ms, 21.79ms; 60hz powerline noise reduction: 8.33ms, 16.66ms, & 33.33ms; 50hz powerline noise reduction: 10.00ms, 20.00ms, 50.00ms and 150ms.

Since readings are taken during the off cycles, the time base will have an effect on the receiver channels. Normally, a standard time base is selected for the type of system and survey being used, but this can be changed to suit a particular situation. A longer time base is preferred for conductors of greater time constants, and in surveys such as resistive soundings where more channels are desired.

Zero Time Set

The term "zero time set" or "ZTS" refers to the starting point for the receiver channel measurements. It is manually set on the receiver by the operator thus allowing adjustments for the ramp times and fine tuning for any fluctuations in the transmitter signal.

Receiver Channels

The rate of decay of the secondary field is measured across fixed time windows which occupy most of the off-time of the transmitter. These time windows are referred to as "channels". These channels are numbered in sequence with "1" being the earliest. The analog and datalogger receivers measured eight fixed channels. The digital receiver, being under software control, offers more flexibility in the channel positioning, channel width, and number of channels.

PP Channel

The PEM system monitors the primary field by taking a measurement during the current ramp and storing this information in a "PP channel". This means that data can be presented in either normalized or unnormalized formats, and additional information is available during interpretation. The PP channel data can provide useful diagnostic information and helps avoid critical errors in field polarity.

Synchronization

Since the PEM system measures the secondary field in the absence of the primary field, the receiver must be in "sync" with the transmitter to read during the off-time. There are three synchronization methods available: cable connection, radio telemetry, and crystal clock. This flexibility enhances the operational capabilities of the system.

SURVEY METHODS

The wide frequency spectrum of data produced by a Pulse EM survey can be used to provide structural geological information as well as the direct detection of conductive or conductive associated ore deposits. The various types of survey methods, from surface and borehole, have greatly improved the chances of success in deep exploration programs. There are eight basic profiling methods as well as a resistivity sounding mode.

Moving Coil

A small, multi-turn transmitter loop (13.7m diameter) is moved for each reading while the receiver remains a fixed distance away. This method is ideal for quick reconnaissance in areas of high background conductivity.

Moving Loop

Same as Moving Coil method, but with a larger transmit loop (100 to 300 meters square). This method provides deeper penetration in areas of high background conductivity, and works best for near-vertical conductors. This method can be used in conjunction with the Moving In-loop survey for increased sensitivity to horizontal conductors.

Moving In-Loop

A transmit loop of size 100 to 300 meters square is moved for each reading while the receiver remains at the center of the loop. This method provides deep penetration in areas of very high background conductivity, and works best for near-horizontal conductors. It can be used in conjunction with the Moving Loop survey.

Large In-Loop

A very large, stationary transmit loop (800m square or more) is used, and survey lines are run inside the loop. This mode provides very deep penetration (700m or more) and couples best with shallow dip conductors (<45 deg.) under the loop.

Deepem

A large, stationary transmit loop is used, and survey lines are run outside the loop. This mode provides very deep penetration, and couples best with steeply dipping conductors (>45 deg.) outside the loop.

Borehole (Z Component only)

Isolated Borehole: A drill hole is surveyed by lowering a probe down a hole and surveying it with a number of transmit loops laid out on surface. The data from multiple loops gives directional information on the conductors.

Multiple Boreholes: One large transmit loop is used to survey a number of closely spaced holes. The change in anomaly from hole to hole provides directional information.

These methods have detected conductors to depths of 2500m from surface and up to 200m from the hole.

3-D Borehole

Drill holes are surveyed with both the Z and the XY borehole probes. The X and Y components provide accurate direction information using just one transmit loop.

Since the probe rotates as it moves down the hole a correction is required for the X-Y data. This is accomplished in one of two ways. The standard approach is to use the measurement of the primary field from the "PP" channel, apply a "cleaning" algorithm to remove most of the secondary field contamination, and compare this to theoretical values. The amount of probe rotation is then calculated, and the correction can be made. The second method involves the use of an optional orientation device for the X-Y probe which is produced in cooperation with IFG Corp. This attachment uses dipmeters to calculate the probe rotation.

Underground Borehole

Underground drill holes can be surveyed in any of the above mentioned borehole methods with one or more transmit loops on the surface. Near-horizontal holes can be surveyed using a push-rod system.

Resistivity Soundings

By reading a large number of channels in the centre of a transmit loop it is possible to preform a decay curve analysis giving a best-fit layer earth model using programs such as ARRTI or TEMIX.

EQUIPMENT

Transmit Loops

The PEM system can operate with practically any size of transmit loop, from a multi-turn circular loop 13.7m in diameter, to a 1 or 2 turn loop of any shape up to 1 or 2 kilometers square using standard insulated copper wire of 10 or 12 gauge. The multi-turn loop is made in two sections with screw connectors. The 10 or 12 gauge loop wire comes on spools in either 300m or 400m lengths.

Power Supply

The PEM system normally operates with an input voltage from 24v to 120v. The maximum current is 20 amps in a single loop but the effective current can be increased by doubling the loop wire in series. For low power surveys a 20amp/hr 24v battery can be used. The power supply requires a motor generator and a voltage regulator to control and filter the input voltage to the transmitter.

Specifications: PEM Motor Generator

- 4.5 hp Wisconsin, (2 kw)
- belt drive to D.C. alternator
- cable output to regulator
- maximum output: 120v, 20amp (2 kw);
- fuse type overload protection
- steel frame
- external gas tank
- unit weight: 33kg (2 kw); 52kg (4 kw)

Specifications: PEM Variable Voltage Regulator

- selectable voltage between 24v and 120v or 48v and 240v
- 20amp maximum current
- fuse and internal circuit breaker protection

Transmitter

The transmitter controls the bi-polar on-off waveform and linear current shut-off ramp. The latest 2000w PEM Transmitter has the following specifications:

Specifications: PEM Transmitter

- time bases: 10.89ms, 21.79ms, 8.88ms, 16.66ms, 33.33ms, 10ms, 20ms, 50ms 150ms.
- ramp times: 0.5ms, 1.0ms, 1.5ms
- operating voltage: 24v to 120v (2 kw); 48v to 240v (4 kw)
- output current: 5amp to 20amp
- monitors for input voltage, output current, shut-off ramp, tx loop continuity, instrument temperature, and overload output current
- automatic shut-off for open loop, high instrument temperature, and overload
- fuse and circuit breaker overload protection
- three sync modes: 1) built-in radio and antenna
  2) cable sync output for direct wire link to receiver or remote radio
  3) connectors for the crystal clock

Receiver

The receivers measure the rate of decay of the secondary field across several time channels. Three types of receivers are available with the PEM system: Analog Rx, Datalogger Rx, and Digital Rx. The Analog Rx and Datalogger Rx read eight fixed time channels while the Digital Rx, under software control, offers a variety of channel configurations. The Digital Rx has been used in the field for contract surveys since 1987.

Specifications: Digital PEM Receiver

- operating temperature -40°C to 50°C
- unit weight 15kg; shipping weight 25.5kg

Hardware:

- 24v rechargeable gel cell battery supply
- two CMOS microprocessors (NSC800)
- alphanumeric keyboard

- 2 x 16 character cold weather display
- 16 x 40 character (256 x 128 pixels graphic) display
- 64k byte solid state memory storage
- cable, radio or crystal clock synchronization
- RS-232 serial I/O

Sampling process features:
- 16 bit A/D conversion
- digital recording of data in nano-tesla/sec
- rejection of atmospheric noise samples based on digital threshold detection
- automatic gain control to optimize receiver signal to noise ratio

Menu driven operating software system offering the following functions:
- controls channel positions, channel widths, and number of channels using a basic slice of 4.5μsec
- time bases: 10.89ms, 21.79ms, 8.88ms, 16.66ms, 33.33ms, 10ms, 20ms, 50ms and 150ms
- ramp time selectable in 4.5μsec steps
- sample stacking from 512 to 65536
- scrolling routines for viewing data
- graphic display of decay curve and profile with various plotting options
- routines for memory management
- control of data transmission
- provides information on instrument and operating status

Sync Equipment

There are three modes of synchronization available, radio, cable, and crystal clock. The radio sync signal can be transmitted through a booster antenna from either the PEM Transmitter internal radio or through a Remote Radio.

Specifications: Sync Cable
- 2 conductor, 24awg, teflon coated
- approx. 900m per aluminum spool with connectors

Specifications: Remote Radio
- operating frequency 27.12mhz
- 12v rechargeable gel cell battery supply
- fuse protection
- sync wire link to transmitter
- coaxial link to booster antenna

Specifications: Booster Antenna
- 8m, 4 section aluminum mast
- guide rope support
- ¼ wave CB fiberglass antenna
- range up to 2km
- coaxial connection to transmitter or remote radio

Specification: Crystal Clocks
- heat stabilized crystals
- 24v rechargeable gel cell battery supply
- rx unit can be separate or housed in the receiver
- outlet for external supplementary battery supply

Surface PEM Receive Coil

The Surface PEM Receive Coil picks up the EM field to be measured by the receiver. The coil is mounted on a tripod that can be positioned to take readings of any component of the field.

Specifications: Surface PEM Receive Coil
- ferrite core antenna
- built-in preamplifier
- VLF filter
- 10khz bandwidth
- 23:1 amplifier gain
- two 9v transistor battery supply
- tripod adjustable to all planes

Borehole PEM Z Component Probe

The Z component probe measures the axial component of the EM field. The Z component data is not affected by probe rotation so no correction are required.

Specifications: Borehole PEM Z Component Probe

- ferrite core
- built-in preamplifier
- dimensions: length - 1.6m; dia - 3.02cm (3.15cm for high pressure tested probes)
- internal rechargeable ni-cad battery supply
- replaceable heat shrink tubing for abrasion protection
- pressure tested for depths 2800m

Borehole PEM XY Component Probe

The XY probe measures two orthogonal components of the EM field perpendicular to the axis of the hole. Correction for probe rotation can be achieved by two methods. The standard approach is to use the measurement of the primary field from the "PP" channel, apply a "cleaning" algorithm to remove most of the secondary field contamination, and compare this to theoretical values. The amount of probe rotation is then calculated, and the correction can be made. The second method involves the use of an optional orientation device for the X-Y probe that uses dipmeters to calculate the probe rotation.

Specifications: Borehole PEM XY Component Probe

- ferrite core
- built-in preamplifier
- dimensions: length - 2.01m; dia - 3.02cm
- internal rechargeable ni-cad battery supply
- selection of X or Y coils by means of a swich box on surface or automatic switching with Digital receiver
- replaceable heat shrink tubing for abrasion protection
- pressure tested for depths to 2800m

Orientation Device

The orientation device is an optional attachment for the XY probe which measures the rotation of the probe using two dipmeters.

Specifications: Orientation Device

- 2 axis tilt sensors
- sensitivity +/- 0.1 deg.
- operating range -89.5 to -10 deg.
- dimensions: length - 0.94m; dia - 28.5cm

Borehole Equipment

To lower the probe down a drill hole requires a cable and spool, winch assembly frame and cable counter. Borehole surveys also require equipment to "dummy probe" the hole before doing the survey.

Specifications: Borehole Cable

- two conductor shielded cable
- kevlar strengthened
- currently 1500m but will shortly have cabability of surveying to depths of 3000m.

Specifications: Slip Ring

- attaches to side of borehole cable spool providing a connection to the receiver while allowing the spool to turn.
- VLF filter
- pure silver contacts

Specifications: Borehole Counter

- attaches to the drill hole casing
- calibrated in meters

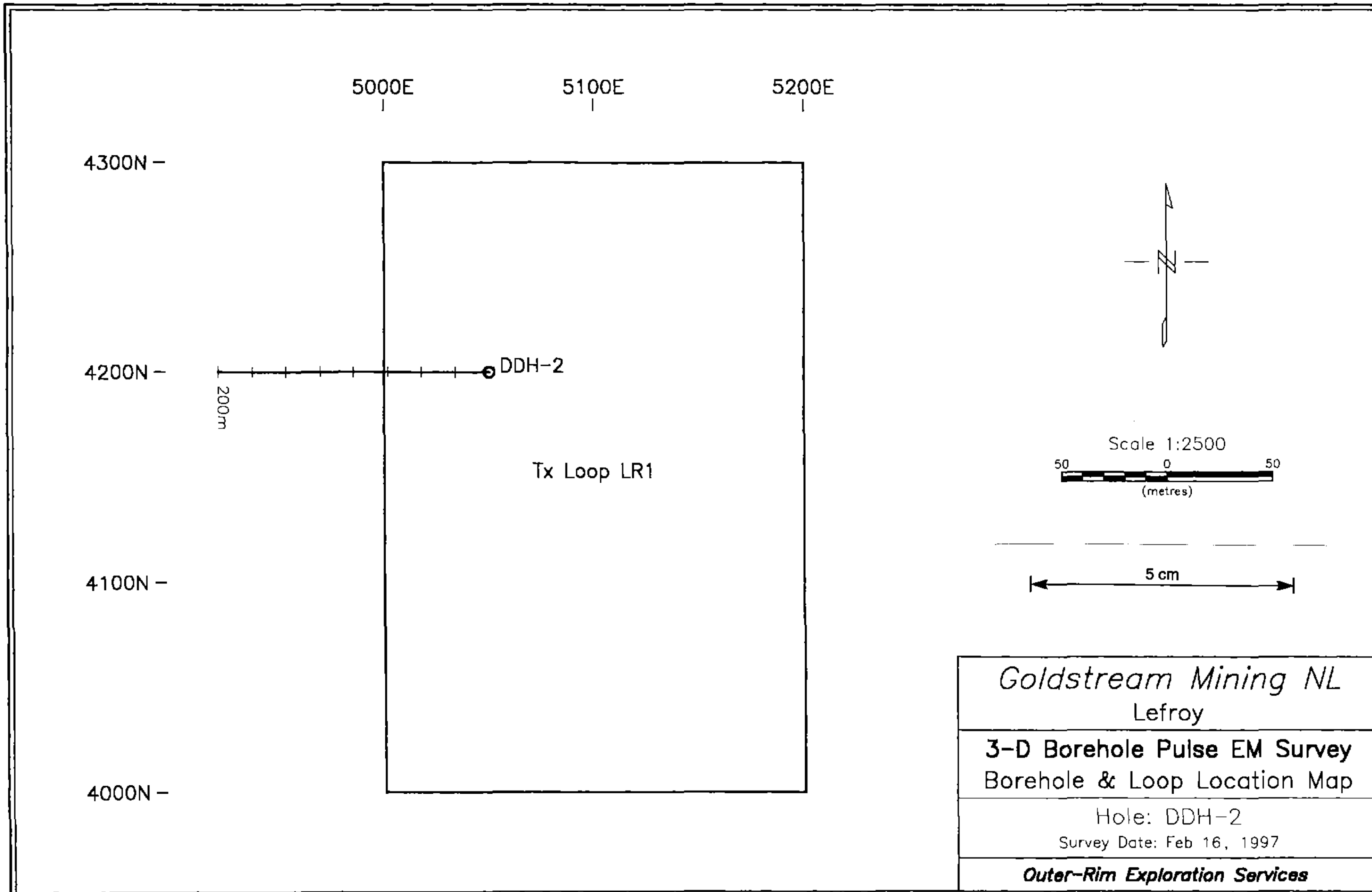
Specifications: Dummy Probe and Cable

- solid steel or steel pipe
- same dimensions as borehole probe
- shear pin connection to dummy cable

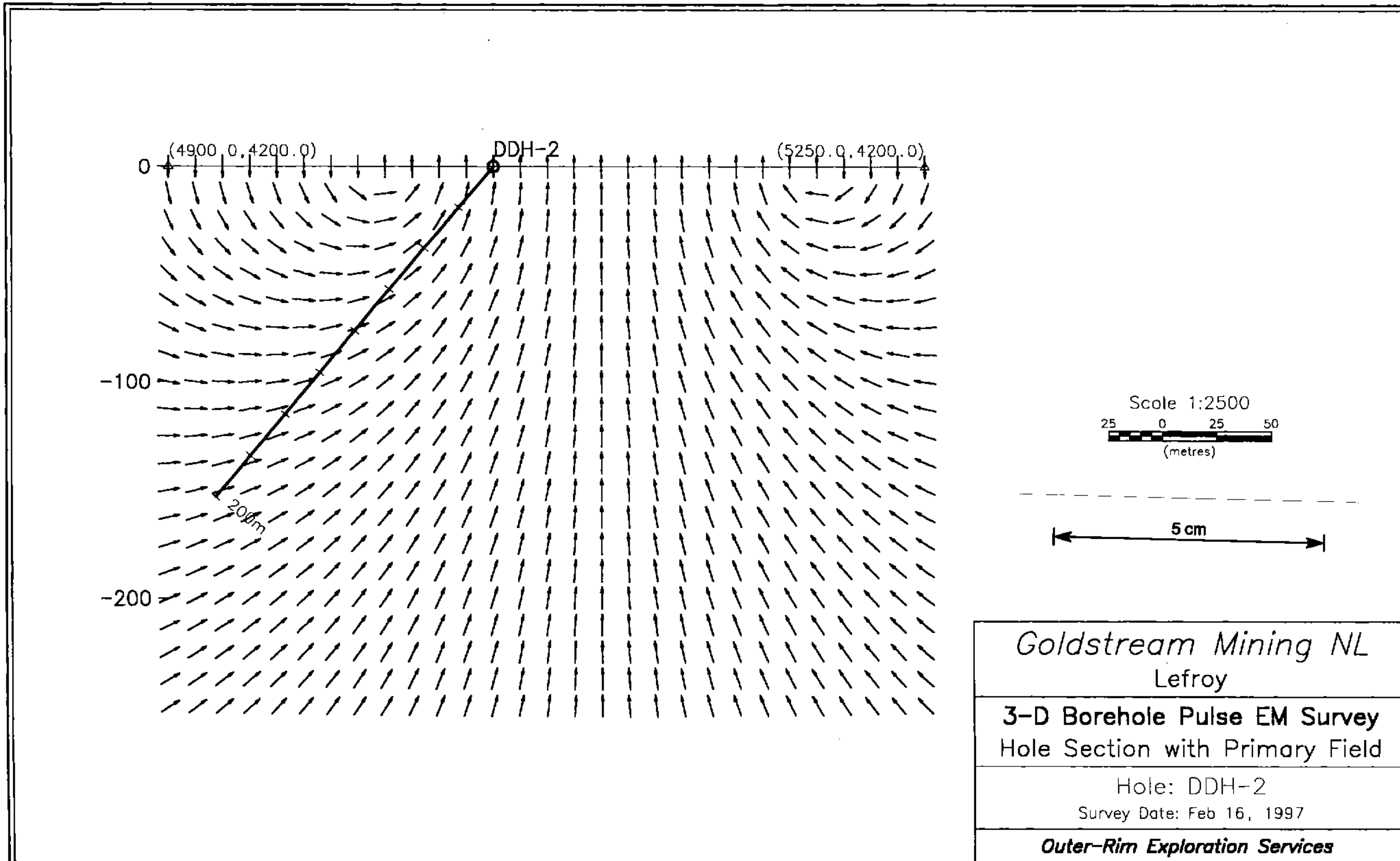
PLOTS

CONTENTS

Plan No.	Plan Type	ID.	Description		Scale
1	Plan	DDH-2	Hole location plan		1:2500
2	Section		Primary Field plot		1:2500
3	Header	DDH-2	Header information		N/A
4	Profile	(LR1)	Z	- Log plot	1:1000
5				- Linear, Ch1-10, 1:2000	1:1000
6				- Linear, Ch10-15, 1:20	1:1000
7				- Linear, Ch15-20, 1:2	1:1000
8			X	- Log plot	1:1000
9				- Linear, Ch1-10, 1:2000	1:1000
10				- Linear, Ch10-15, 1:20	1:1000
11				- Linear, Ch15-20, 1:2	1:1000
12			Y	- Log plot	1:1000
13				- Linear, Ch1-10, 1:2000	1:1000
14				- Linear, Ch10-15, 1:20	1:1000
15				- Linear, Ch15-20, 1:2	1:1000
16			Total Field plot		1:1000


5000E
5100E
5200E
4300N
4200N
4100N
4000N
DDH-2
200m
Tx Loop LR1
Scale 1:2500
50
0
50
(metres)
5 cm
Goldstream Mining NL
Lefroy
3-D Borehole Pulse EM Survey
Borehole & Loop Location Map
Hole: DDH-2
Survey Date: Feb 16, 1997
Outer-Rim Exploration Services

254201


(4900.0,4200.0)
DDH-2
(5250.0,4200.0)
0
-100
-200
200m
Scale 1:2500
25 0 25 50
(metres)
5 cm
Goldstream Mining NL
Lefroy
3-D Borehole Pulse EM Survey
Hole Section with Primary Field
Hole: DDH-2
Survey Date: Feb 16, 1997
Outer-Rim Exploration Services

254202

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client	: Goldstream Mining NL	Hole	: DDH-2
Grid	: Lefroy	Tx Loop	: LR1
Date	: Feb 16, 1997	File name	: DDH2Z.PEM
Time Base	: 20.00 ms	# Readings	: 25
Ramp Time	: 0.50 ms	Stn Units	: Metric
# Channels	: 20	Coil Area	: 6500 sq m
Sync Type	: Cable	Polarity	: +
Loop Size	: 200m X 300m	Receiver	: Digital #106
Current	: 10 Amps	Operator	: Bruce Broadbent

Loop Coordinates (X,Y,Z)
1. 5000m, 4000m, 0m — 2. 5200m, 4000m, 0m
3. 5200m, 4300m, 0m — 4. 5000m, 4300m, 0m

Hole Coordinates (X,Y,Z) or (Azimuth,Dip,Length)
1. 5050m, 4200m, 0m — 2. 270deg, 50deg, 200m

Channel Times (usec)

Ch	Start	End	Center	Ch	Start	End	Center	Ch	Start	End	Center
PP	-198	-99	-149	1	50	63	56	2	63	86	74
3	86	112	99	4	112	153	133	5	153	203	178
6	203	270	236	7	270	360	315	8	360	482	421
9	482	639	560	10	639	850	745	11	850	1129	990
12	1129	1498	1314	13	1498	1993	1746	14	1993	2646	2320
15	2646	3514	3080	16	3514	4666	4090	17	4666	6192	5429
18	6192	8221	7206	19	8221	10910	9566	20	10910	14490	12700

254203

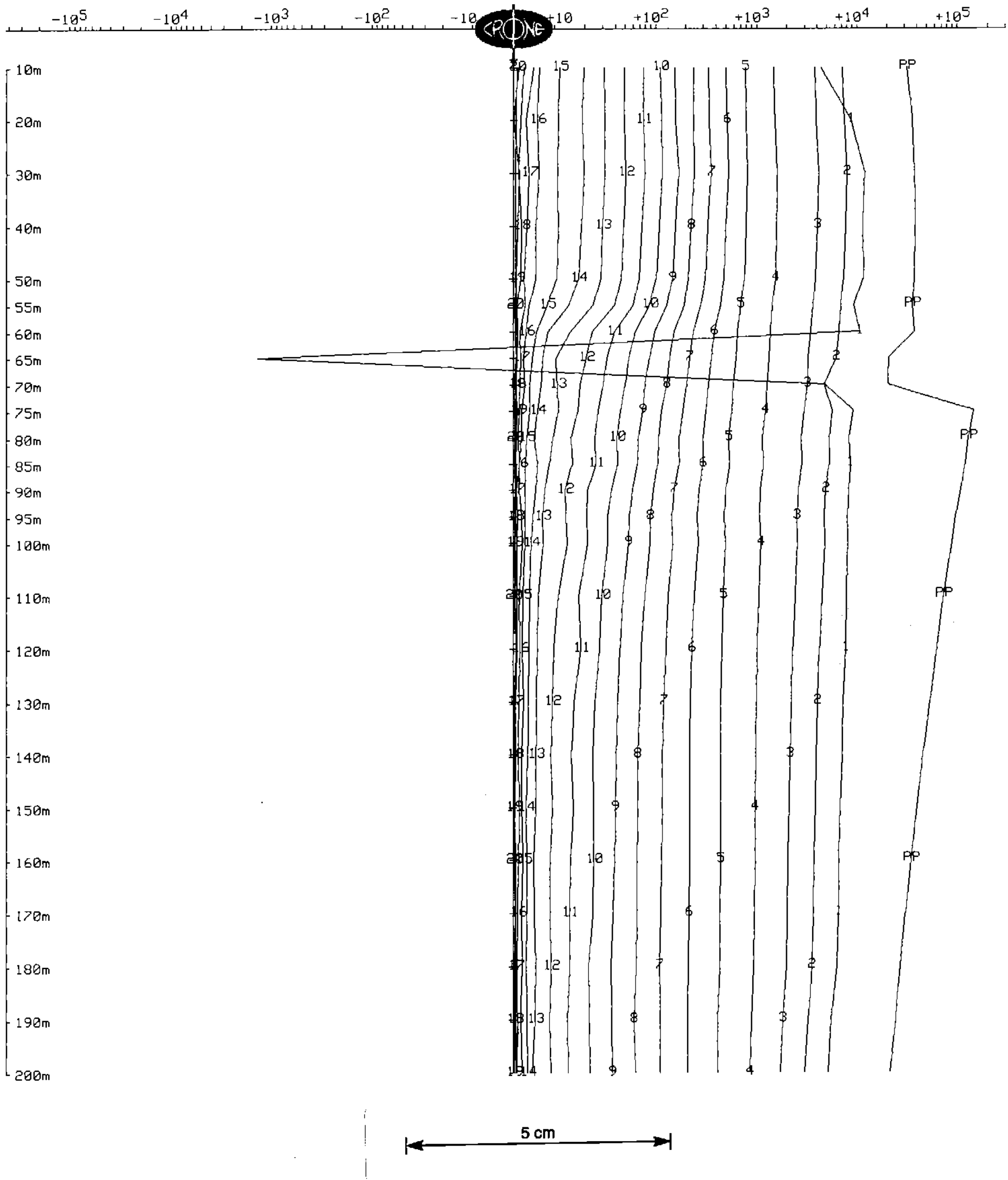
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

254204

Client	: Goldstream Mining NL	Hole	: DDH-2
Grid	: Lefroy	Tx Loop	: LR1
Date	: Feb 16, 1997	File name	: DDH2Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:1000



OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

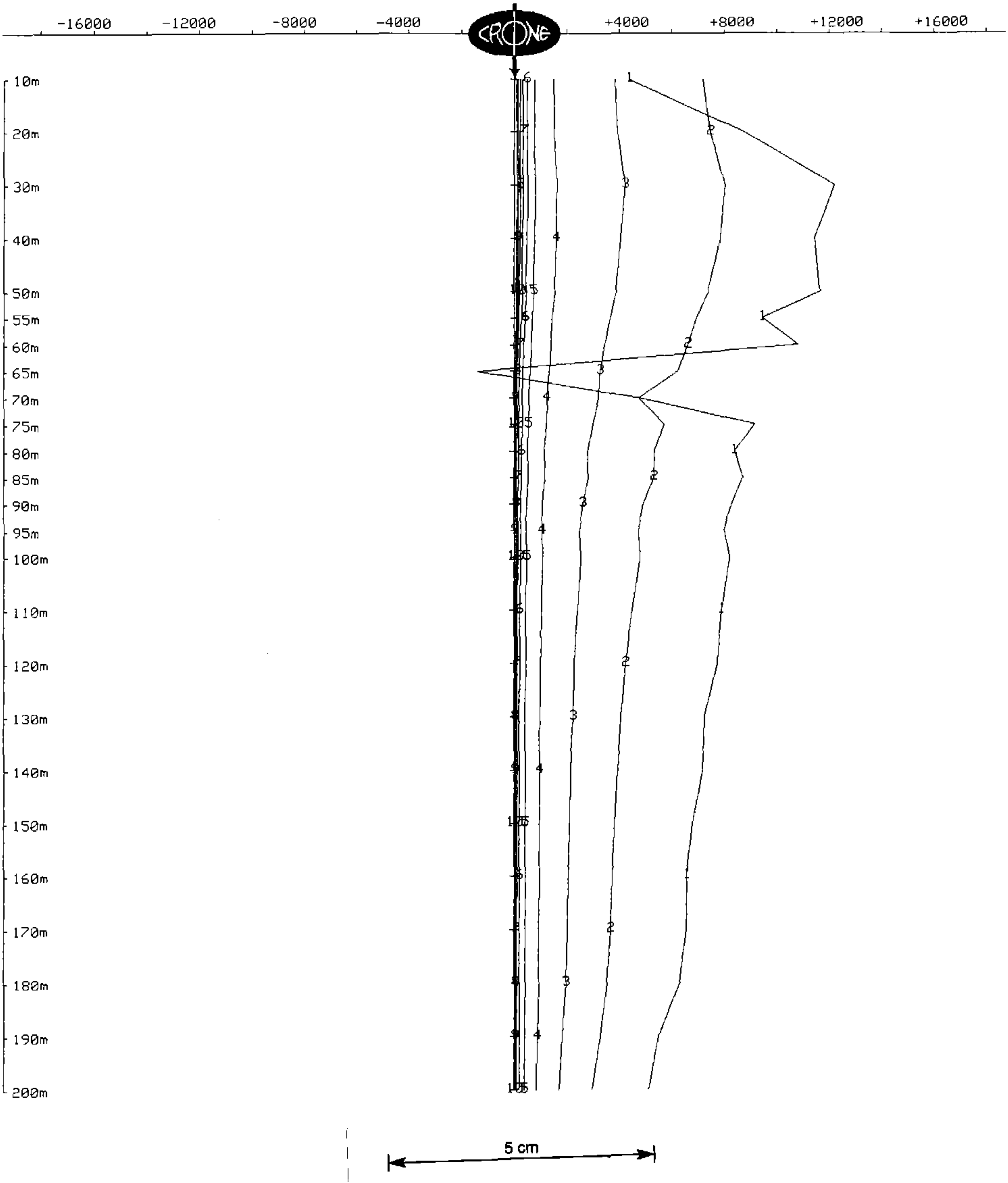
Client	: Goldstream Mining NL	Hole	: DDH-2
Grid	: Lefroy	Tx Loop	: LR1
Date	: Feb 16, 1997	File name	: DDH2Z.PEM

254205

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:1000

Unit Scale: 1cm = 2000 nT,



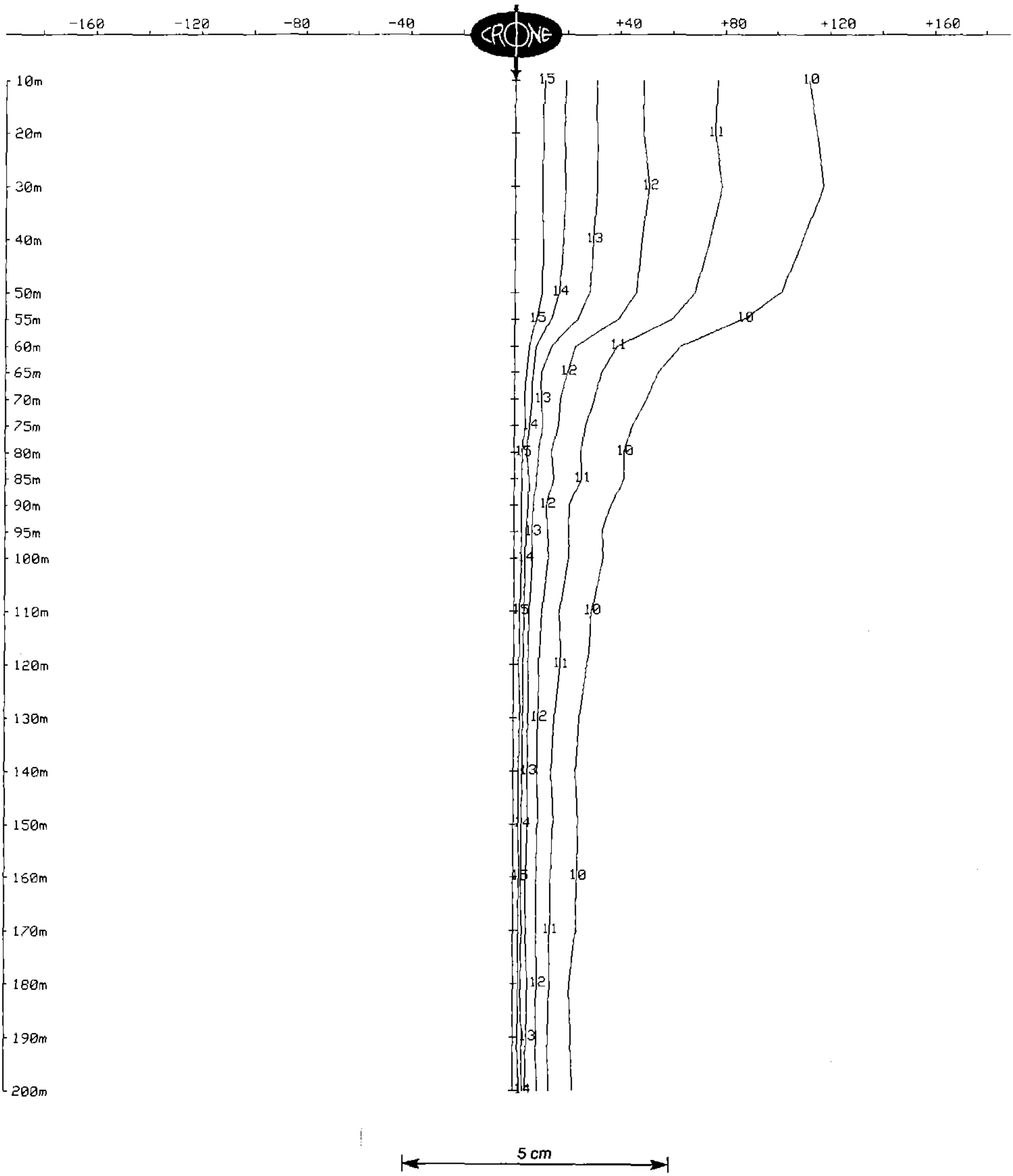
254206

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client	: Goldstream Mining NL	Hole	: DDH-2
Grid	: Lefroy	Tx Loop	: LR1
Date	: Feb 16, 1997	File name	: DDH2Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels

Scale: 1:1000 Unit Scale: 1cm = 20 nT/



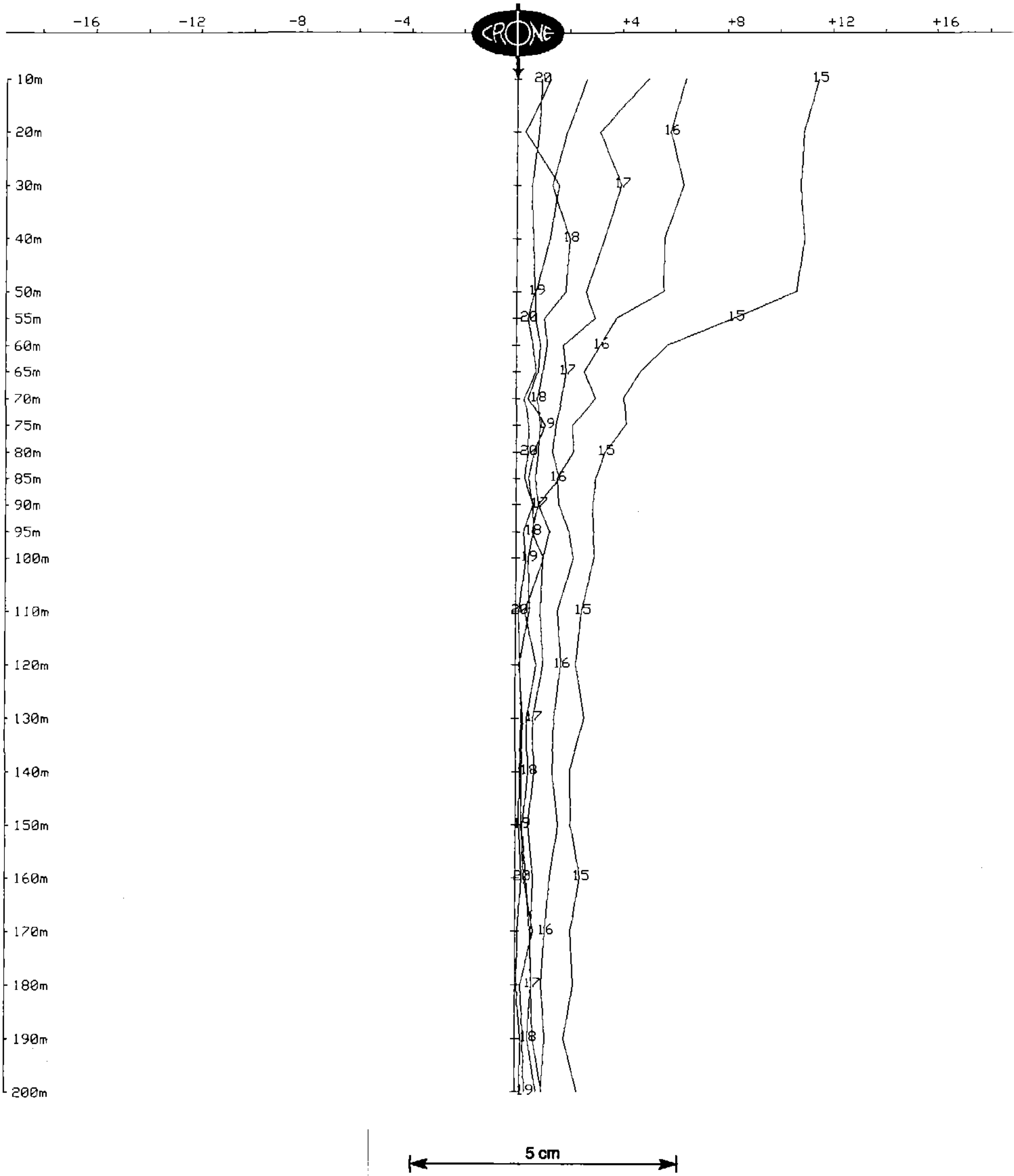
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

254207

Client	: Goldstream Mining NL	Hole	: DDH-2
Grid	: Lefroy	Tx Loop	: LR1
Date	: Feb 16, 1997	File name	: DDH2Z.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels

Scale: 1:1000 Unit Scale: 1cm = 2 nT,



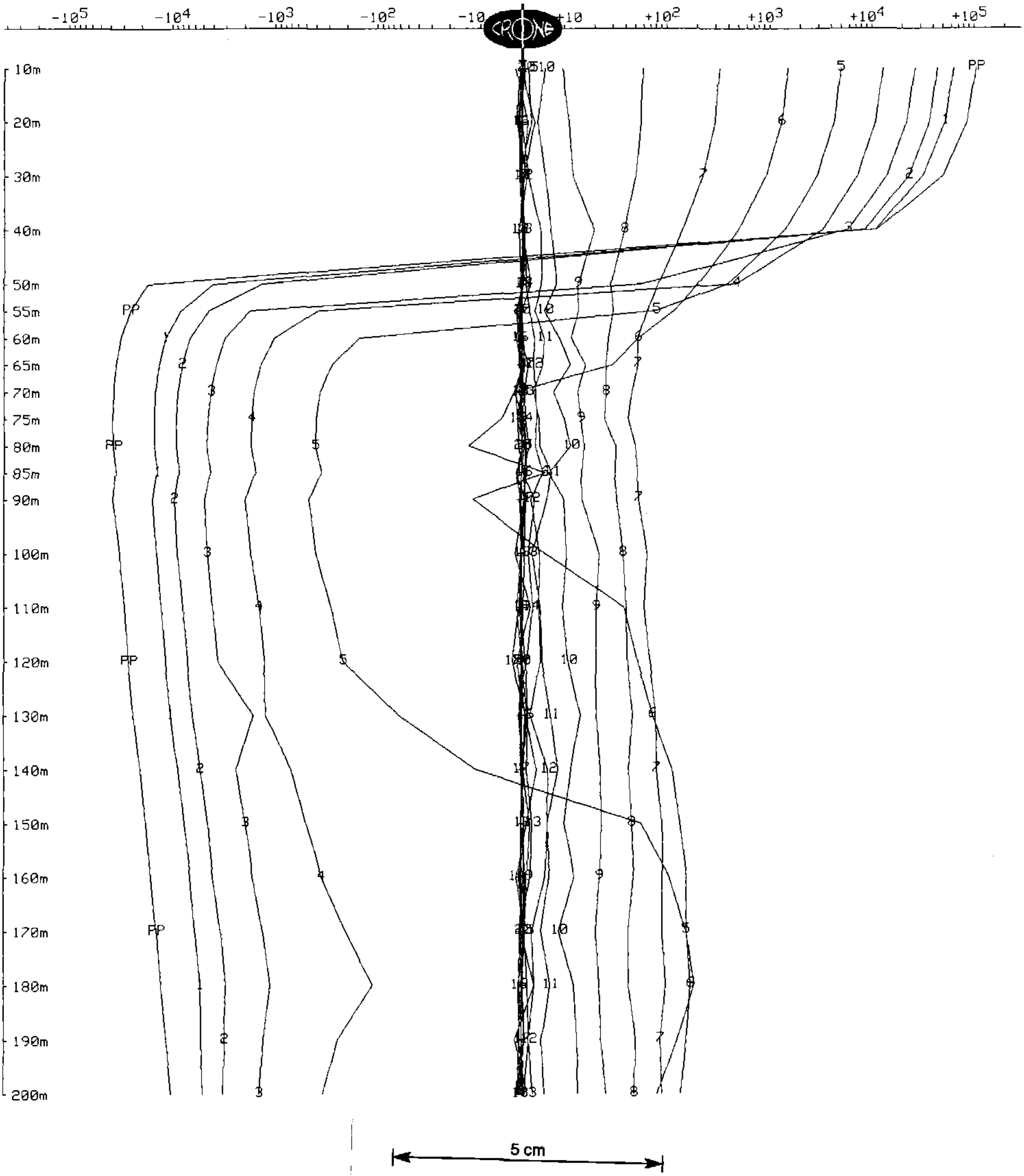
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

Client : Goldstream Mining NL
Grid : Lefroy
Date : Feb 16, 1997

Hole : DDH-2 254208
Tx Loop : LR1
File name : DDH2XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #4
X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:1000



OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

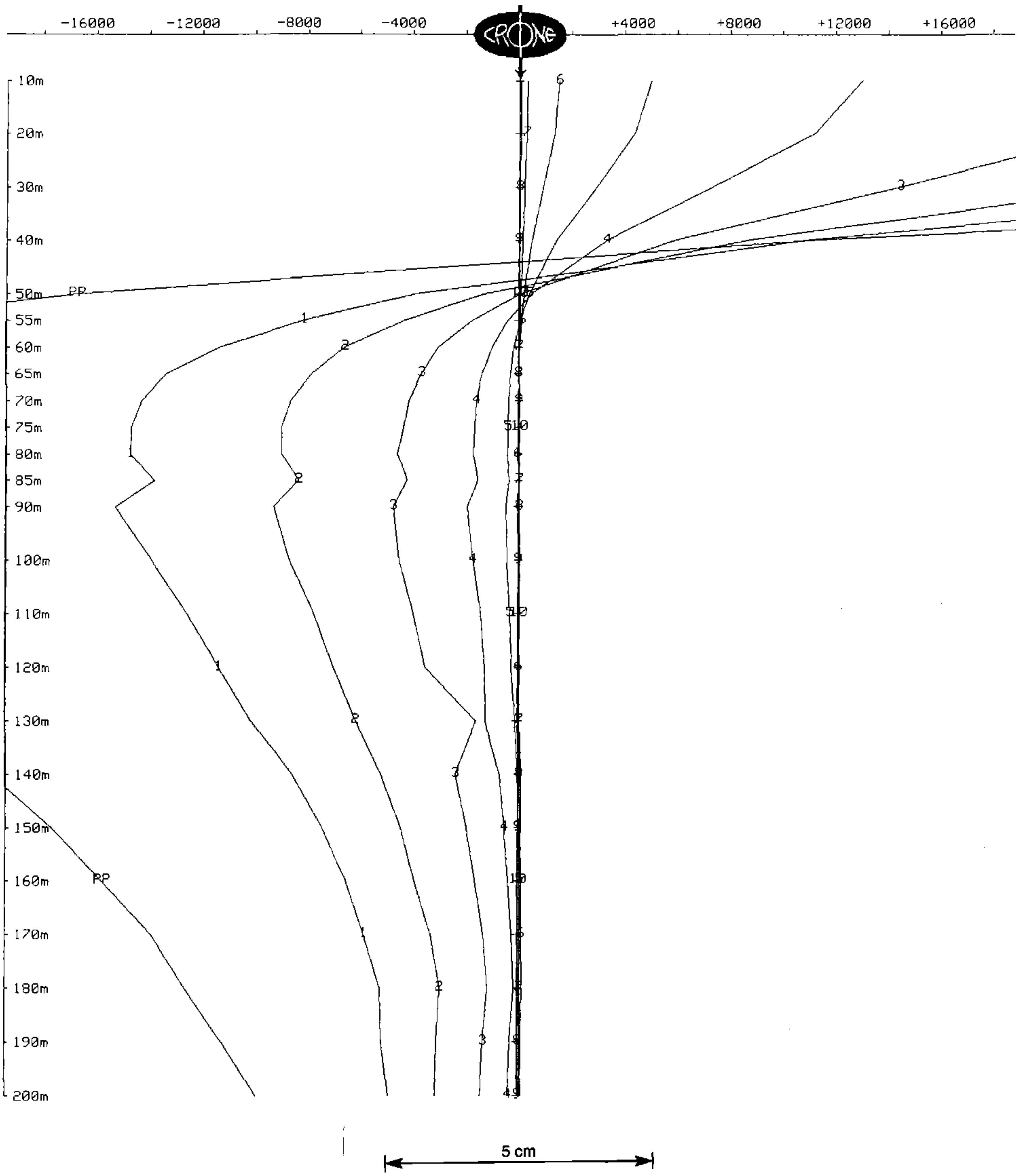
254209

Client : Goldstream Mining NL
Grid : Lefroy
Date : Feb 16, 1997

Hole : DDH-2
Tx Loop : LR1
File name : DDH2XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #4
X COMPONENT dBx/dt nanoTesla/sec - 20 channels and PP

Scale: 1:1000 Unit Scale: 1cm = 2000 nT/



254210

OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

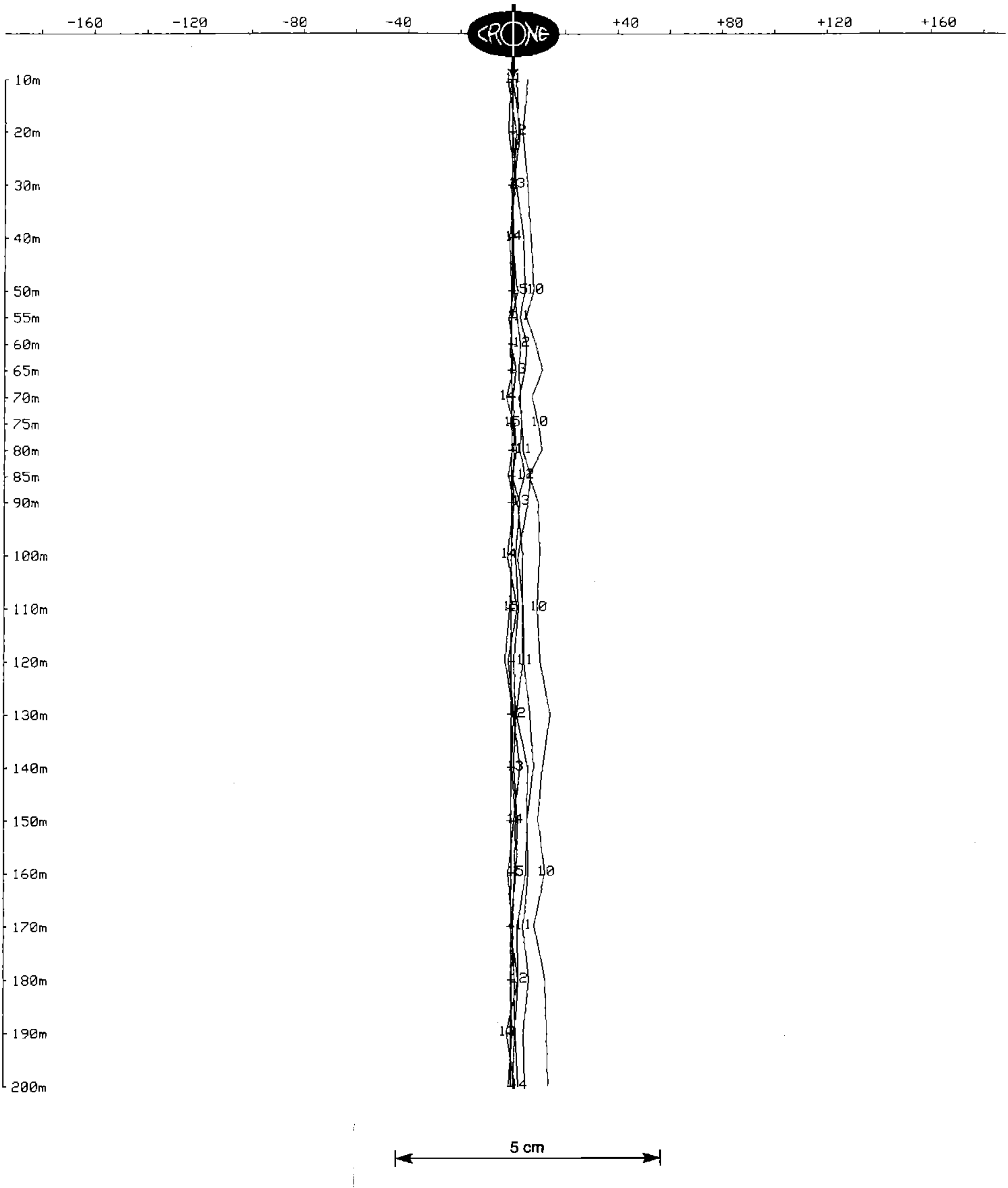
Client : Goldstream Mining NL
Grid : Lefroy
Date : Feb 16, 1997

Hole : DDH-2
Tx Loop : LR1
File name : DDH2XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #4
X COMPONENT dBx/dt nanoTesla/sec - 20 channels

Scale: 1:1000

Unit Scale: 1cm = 20 nT,



OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

254211

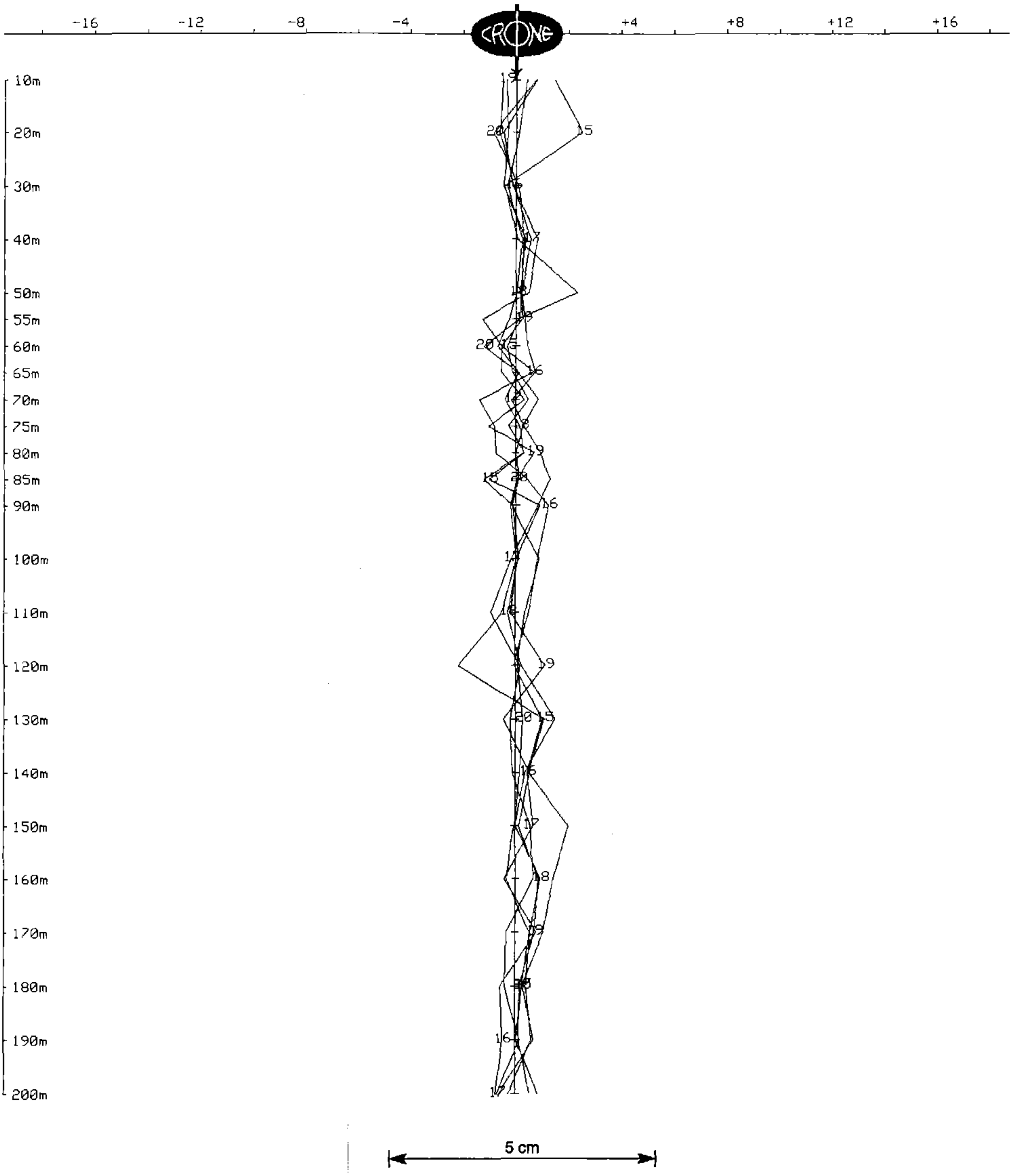
Client : Goldstream Mining NL
Grid : Lefroy
Date : Feb 16, 1997

Hole : DDH-2
Tx Loop : LR1
File name : DDH2XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #4
X COMPONENT dBx/dt nanoTesla/sec - 20 channels

Scale: 1:1000

Unit Scale: 1cm = 2 nT,



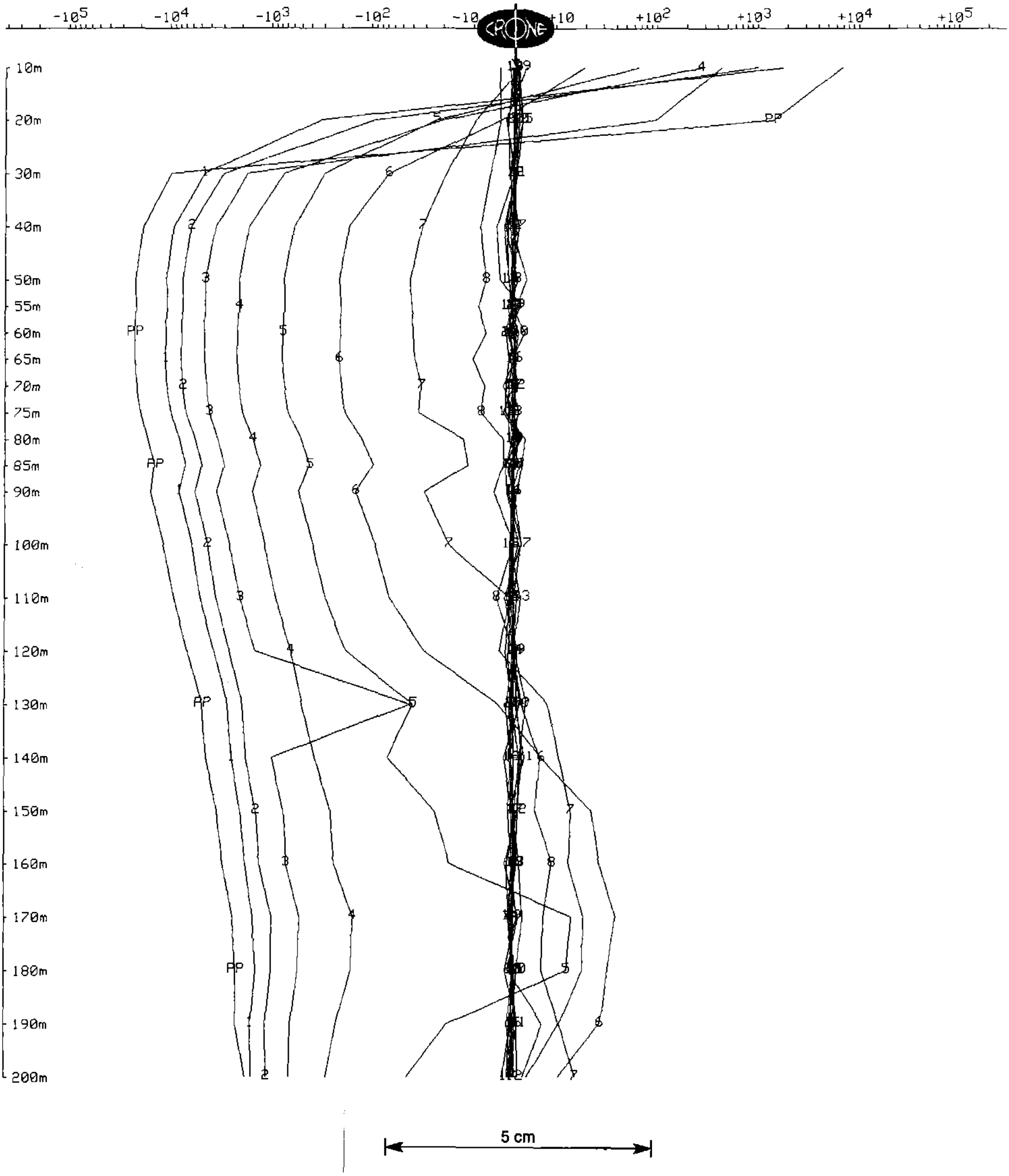
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

254212

Client	: Goldstream Mining NL	Hole	: DDH-2
Grid	: Lefroy	Tx Loop	: LR1
Date	: Feb 16, 1997	File name	: DDH2XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #4
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:1000



OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

254213

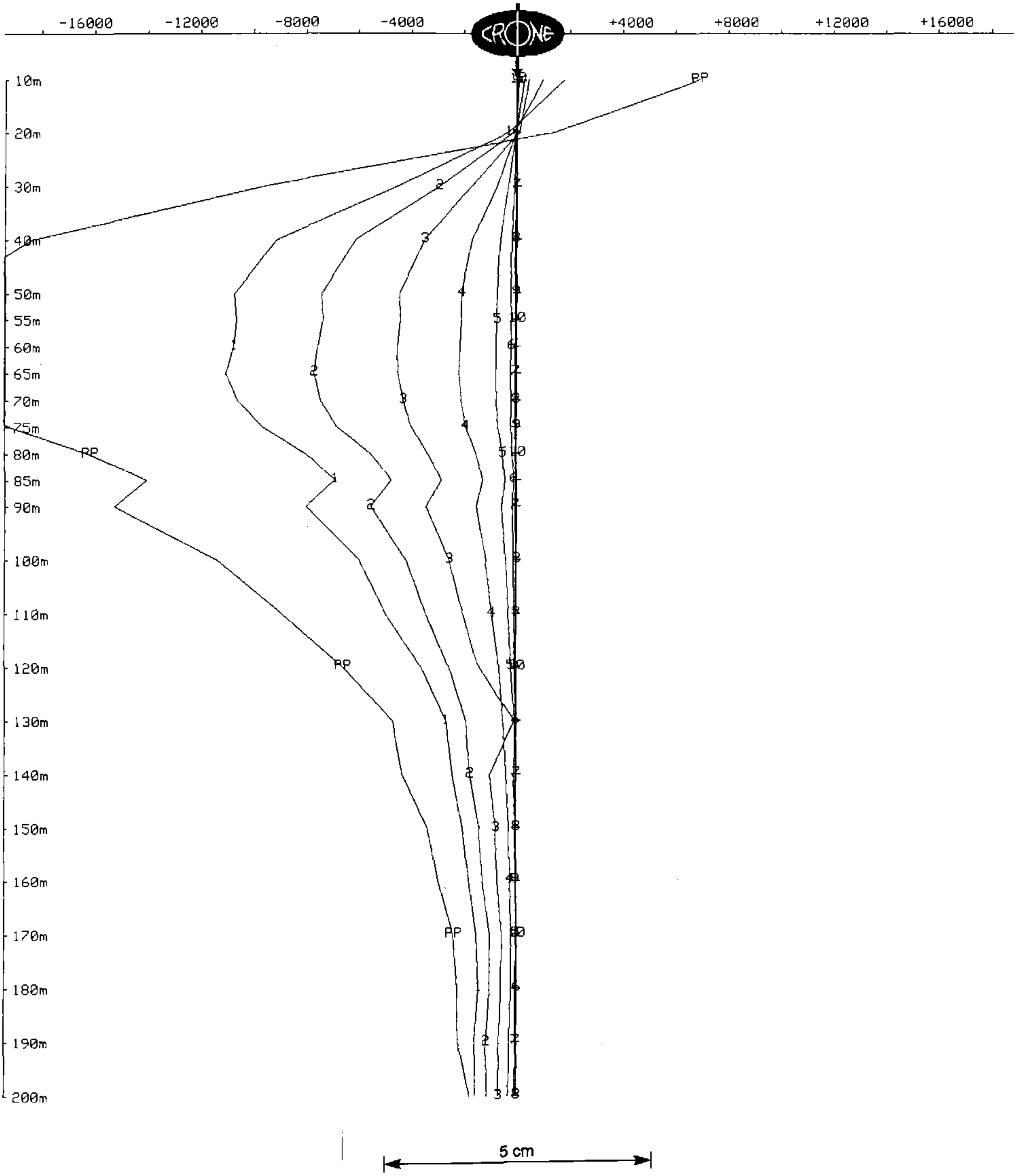
Client : Goldstream Mining NL
Grid : Lefroy
Date : Feb 16, 1997

Hole : DDH-2
Tx Loop : LR1
File name : DDH2XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #4
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels and PP

Scale: 1:1000

Unit Scale: 1cm = 2000 nT,



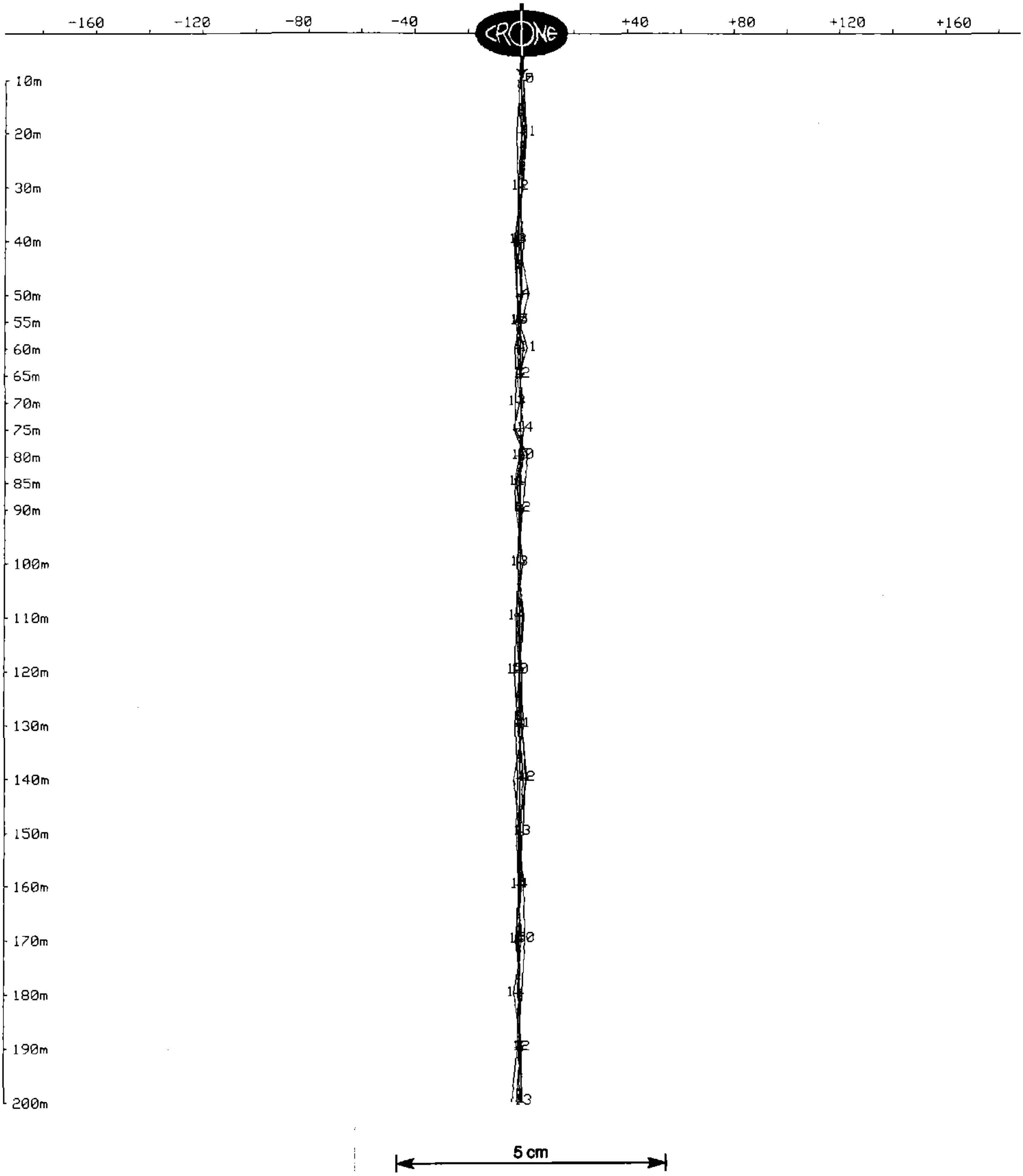
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

254214

Client	: Goldstream Mining NL	Hole	: DDH-2
Grid	: Lefroy	Tx Loop	: LR1
Date	: Feb 16, 1997	File name	: DDH2XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #4
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels

Scale: 1:1000 Unit Scale: 1cm = 20 nT/



OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

254215

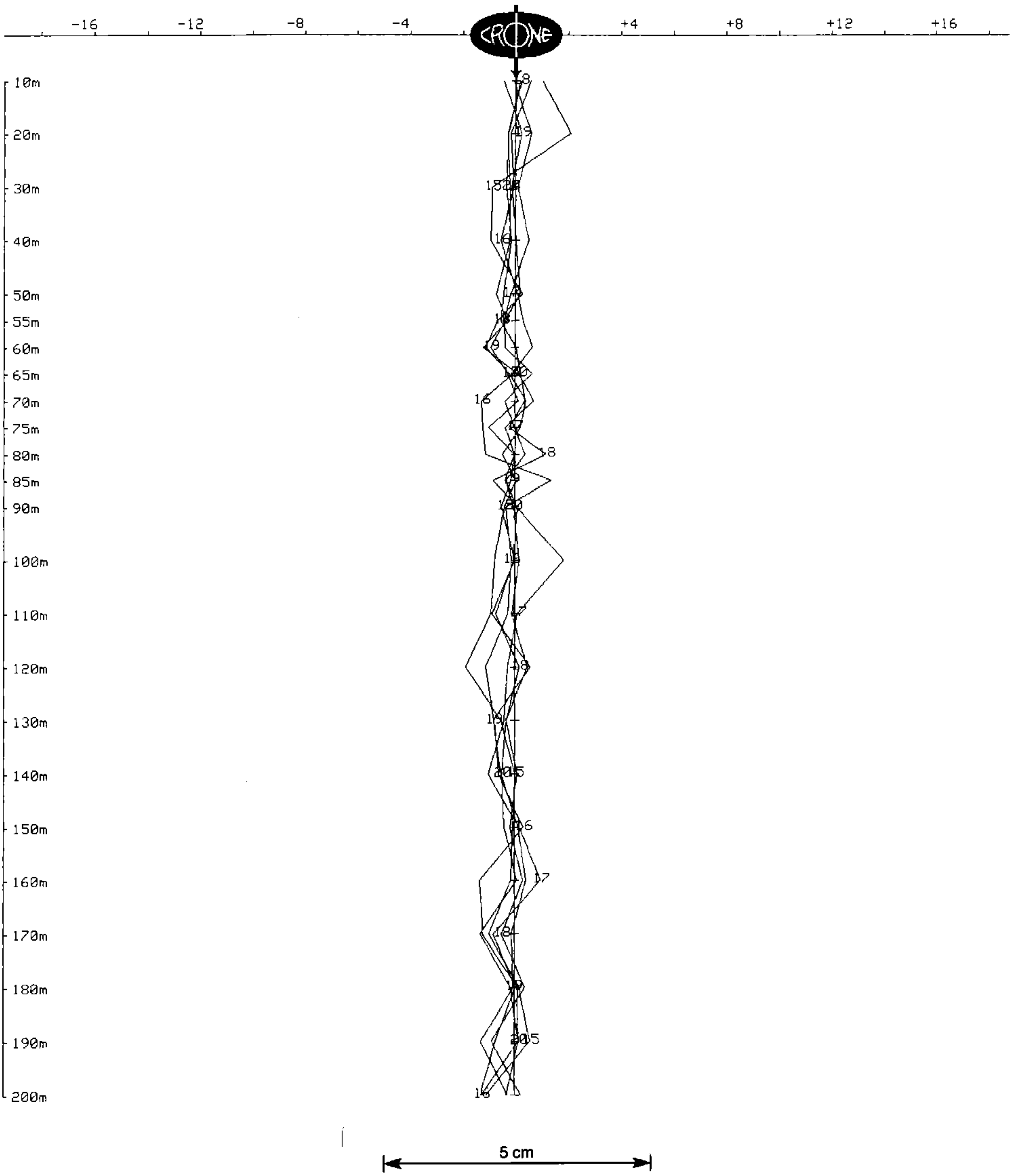
Client : Goldstream Mining NL
Grid : Lefroy
Date : Feb 16, 1997

Hole : DDH-2
Tx Loop : LR1
File name : DDH2XY.PEM

Data Corrected for Probe Rotation using Orientation Tool #4
Y COMPONENT dBy/dt nanoTesla/sec - 20 channels

Scale: 1:1000

Unit Scale: 1cm = 2 nT,



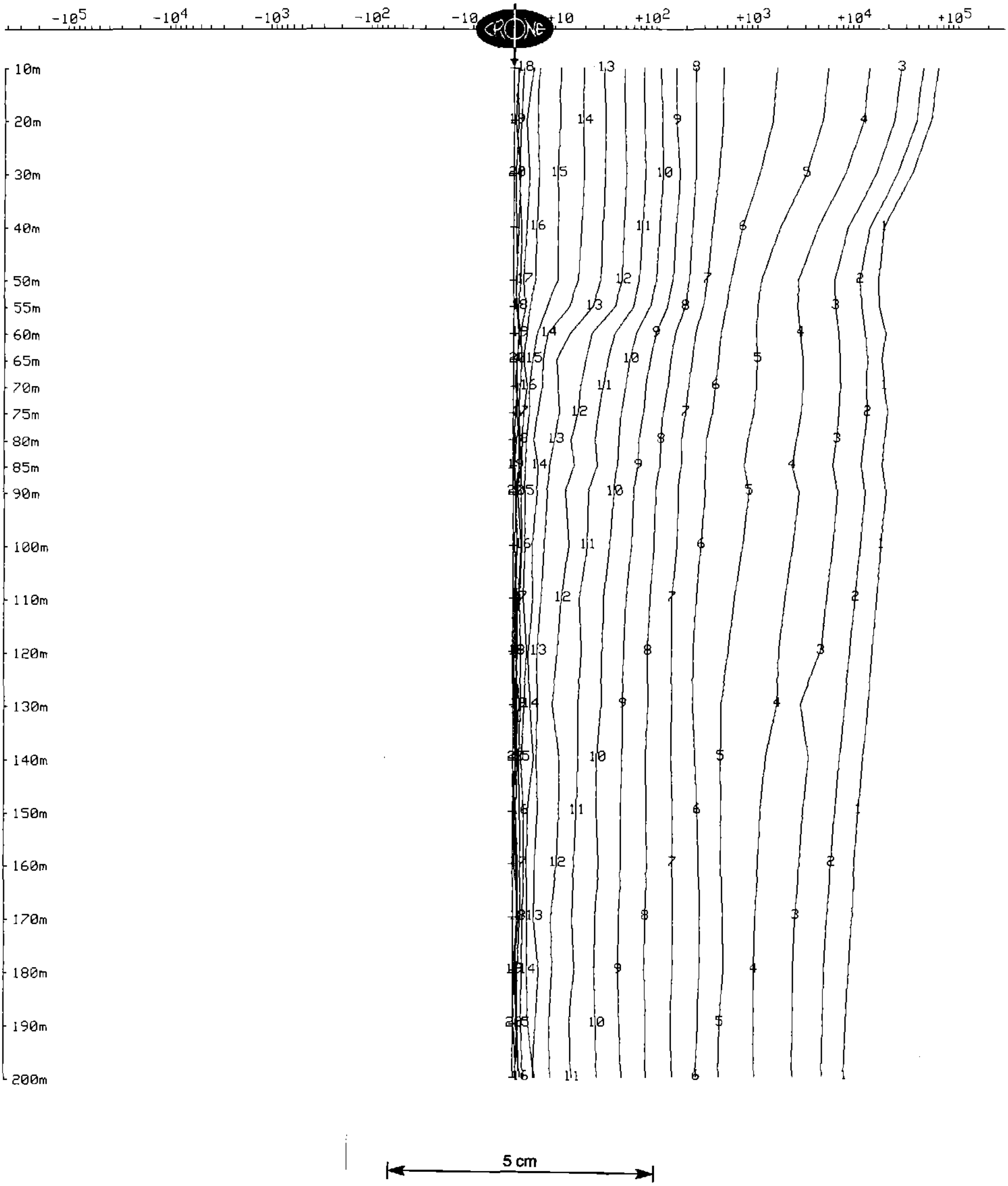
OUTER-RIM EXPLORATION SERVICES
Operating Crone PEM System
BOREHOLE PEM

254216

Client	: Goldstream Mining NL	Hole	: DDH-2
Grid	: Lefroy	Tx Loop	: LR1
Date	: Feb 16, 1997	File name	: DDH2XYZ.PEM

TOTAL FIELD dBxyz/dt nanoTesla/sec - 20 channels

Scale: 1:1000



254217

Goldstream - Titan Joint Venture

Corinna Project

EL43/94: Annual Report to 4.1.98

APPENDIX 9

RELIEF SHADED TOTAL MAGNETIC INTENSITY, DIGITAL TERRAIN AND VARIOUS PROCESSED TMI FORMATS OF GOLDSTREAM'S DETAILED HELIMAG. ALL 1:25000

CONTENTS

Lefroy Ridge East Prospect

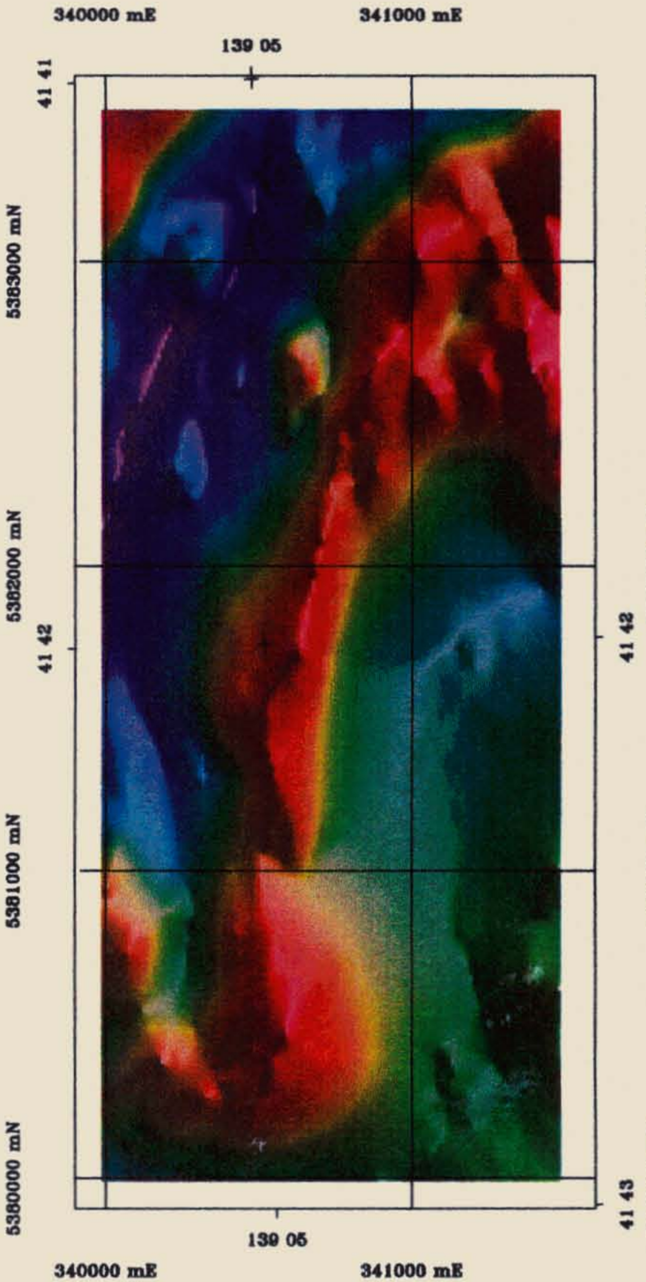
1:25 000 Scale

5 cm

254218

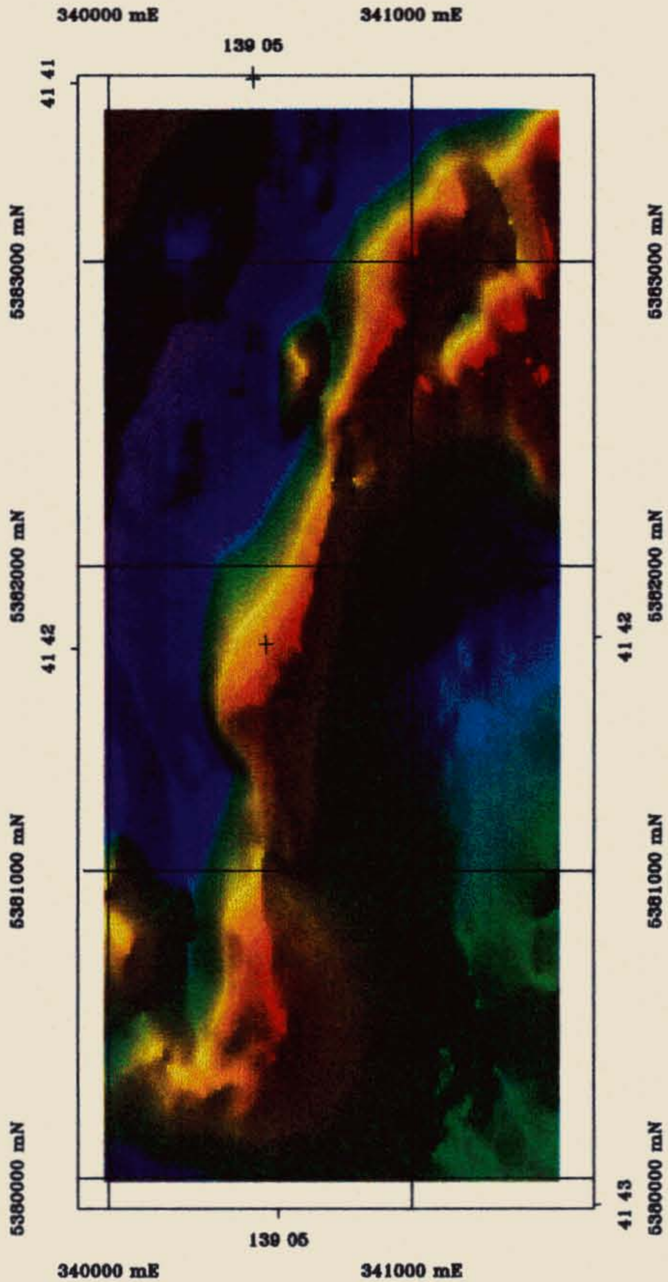
Total Magnetic Intensity

Relief Shaded with Highlights from 45 degrees

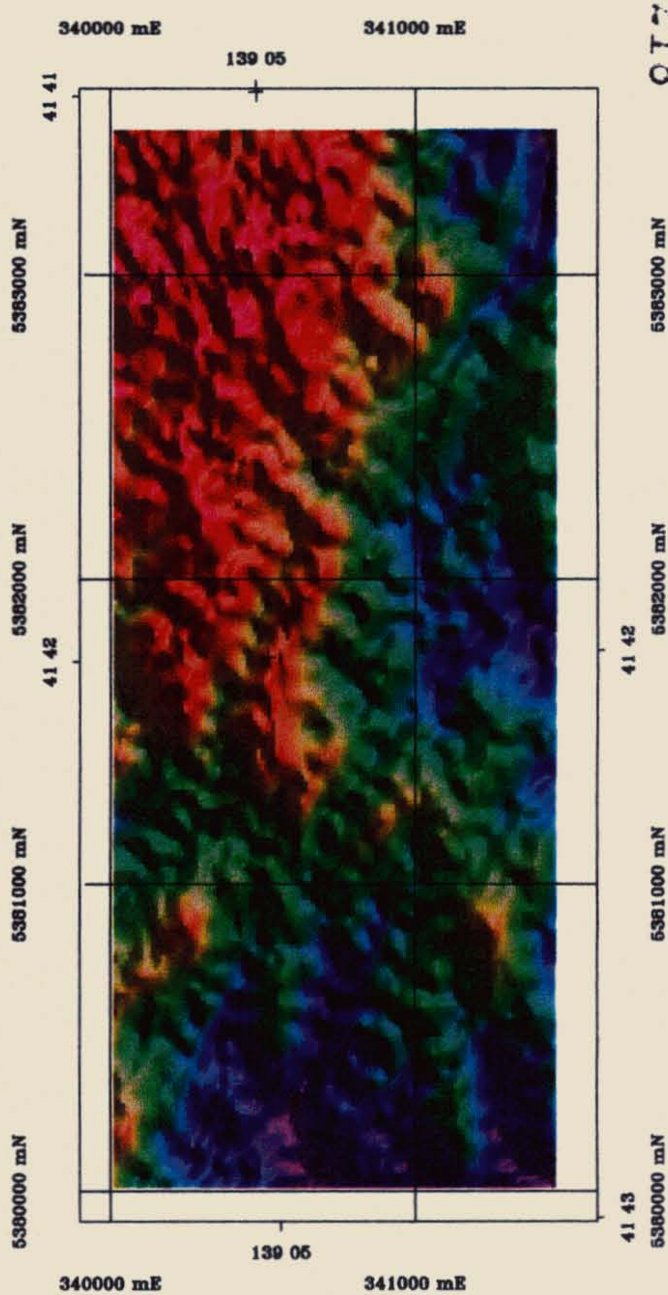


Total Magnetic Intensity

Relief Shaded from 315 degrees



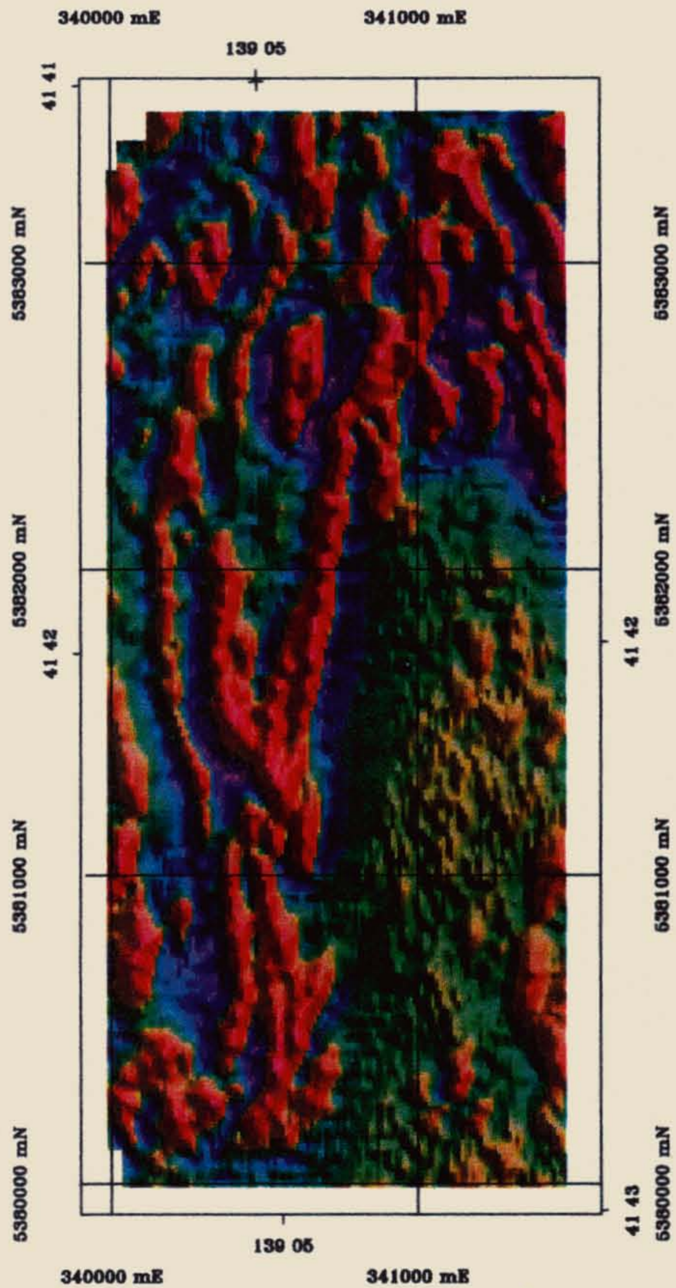
Digital Terrain Model



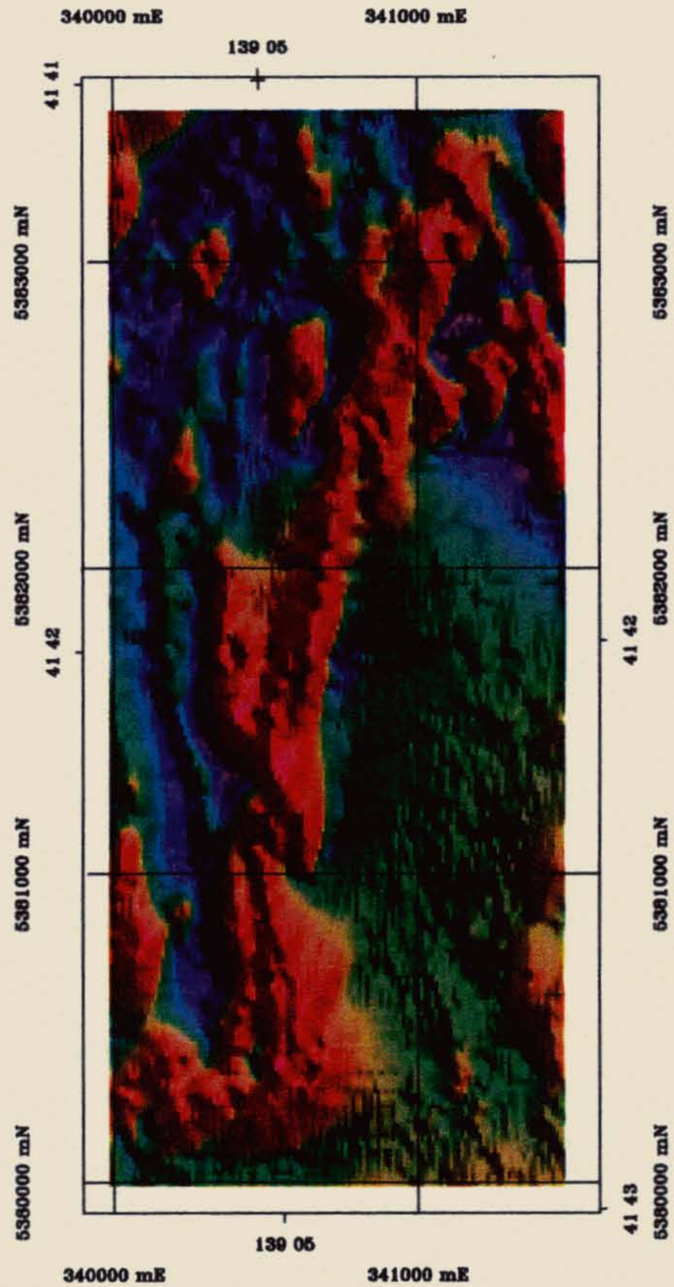
Lefroy Ridge East Prospect
1:25 000 Scale

5 cm

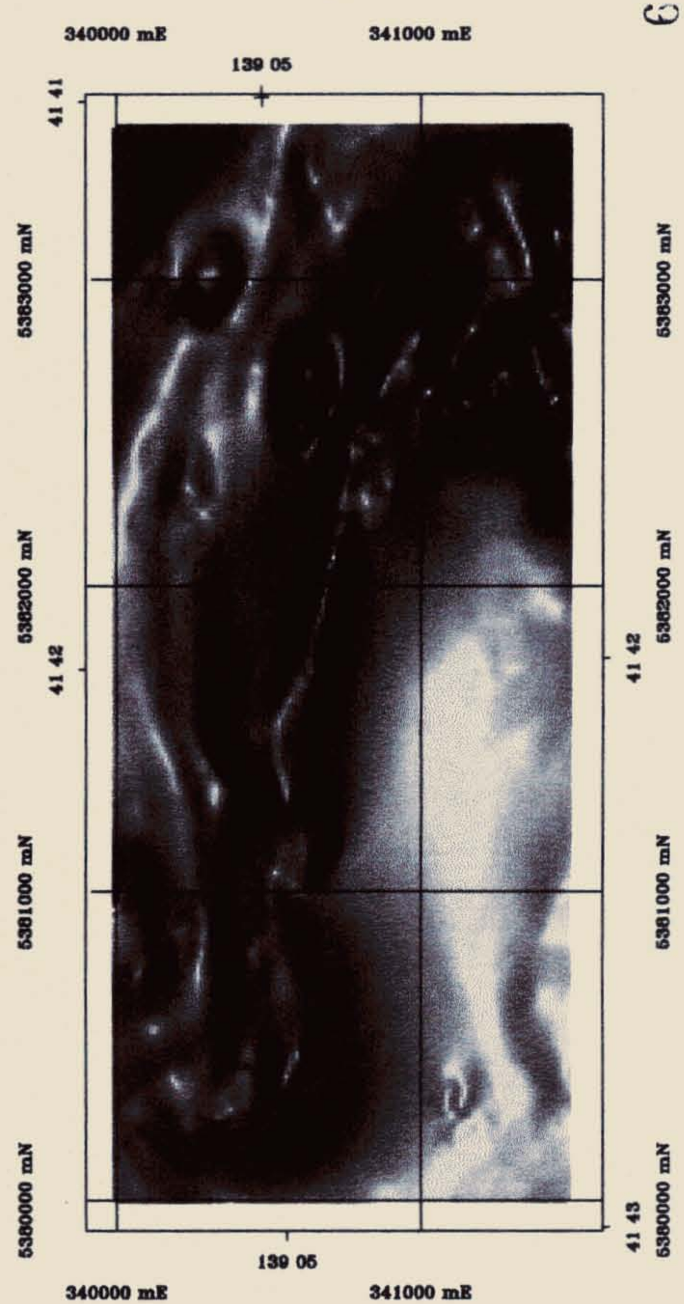
Residual Hanning Filtered TMI
Relief Shaded with Highlights from 45 degrees



1vd of TMI Grid



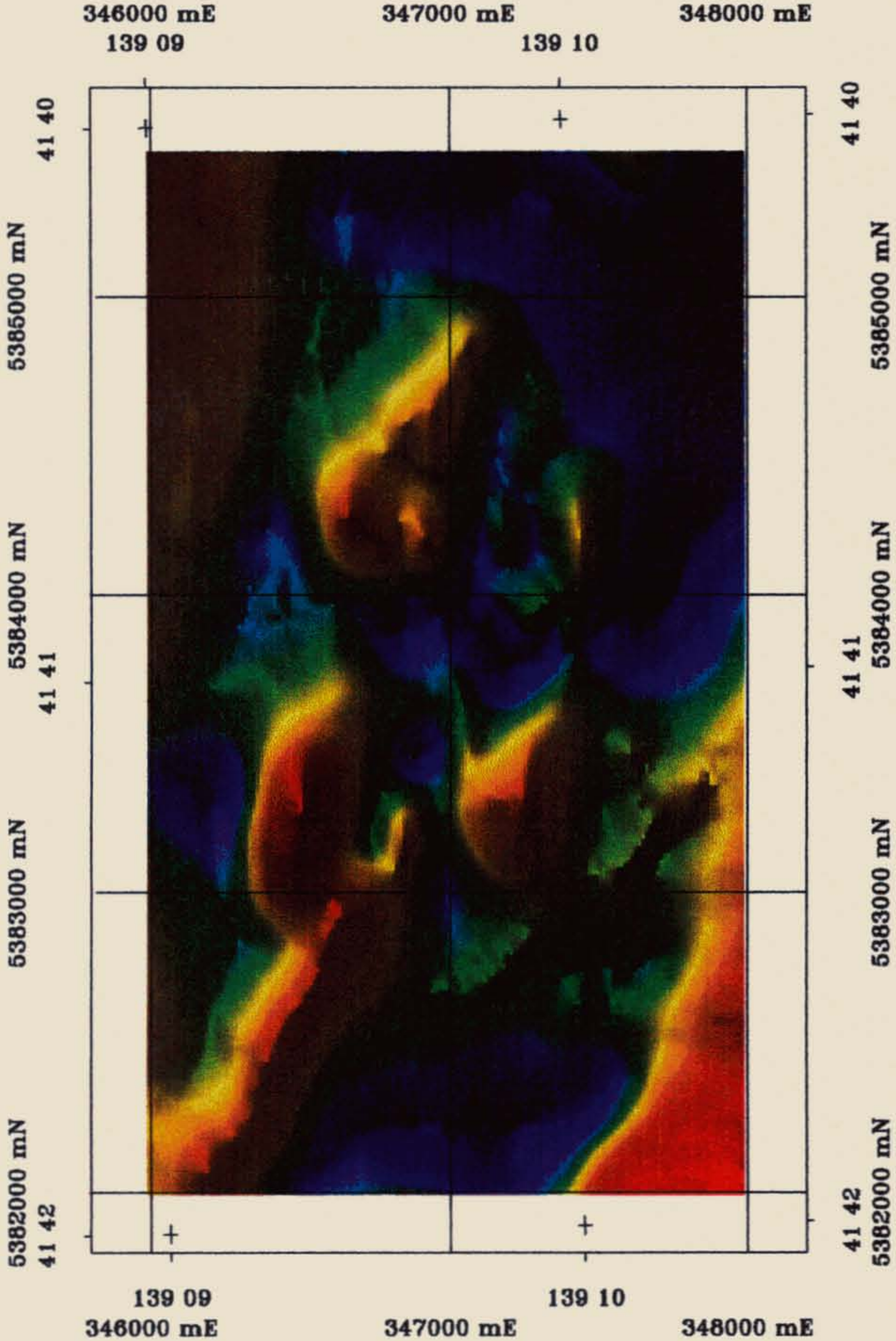
Maximum Magnetic Gradient



Lucy Spur Prospect - Total Magnetic Intensity

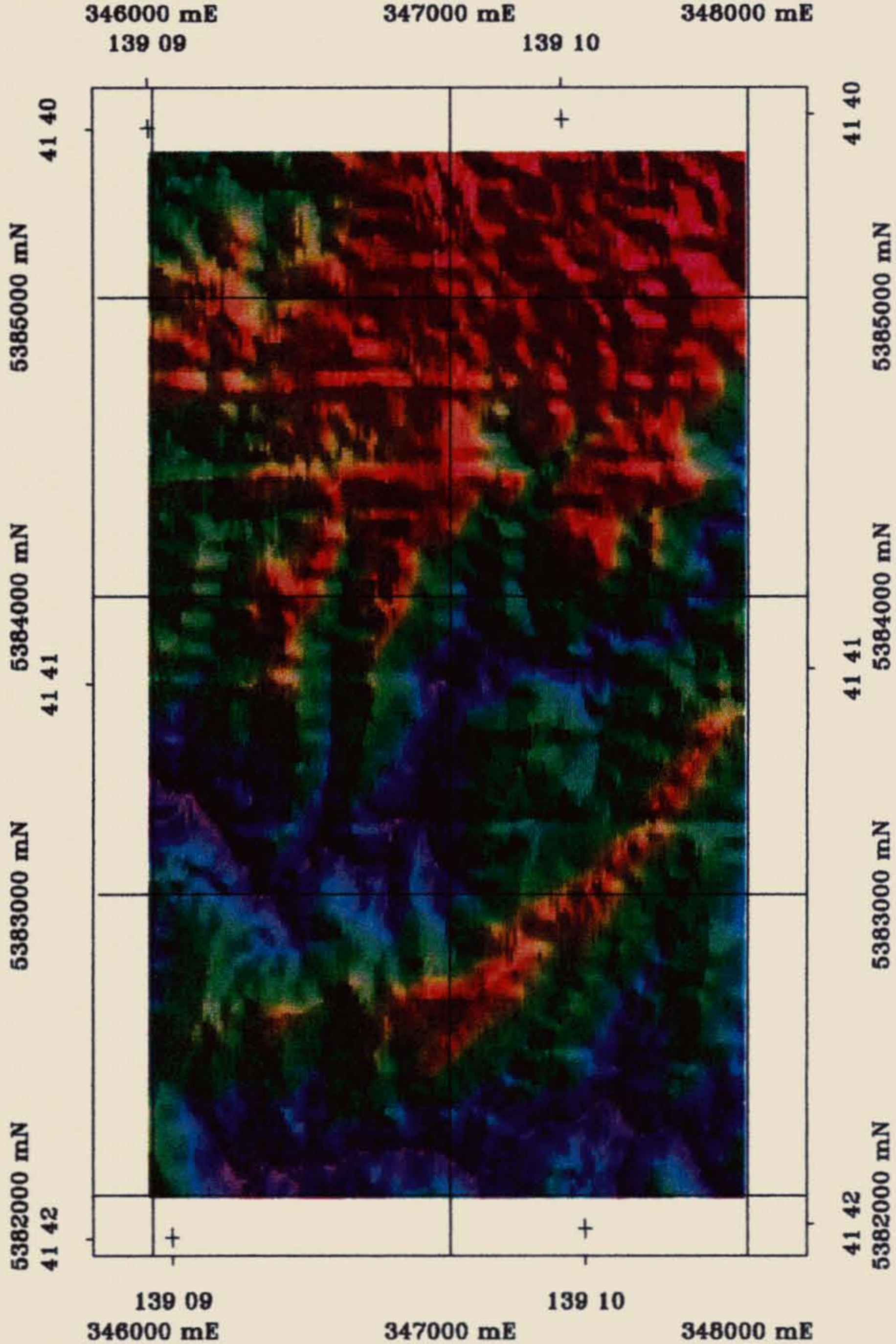
Relief Shaded from 315 degrees

1:25 000 Scale



Lucy Spur Prospect - Digital Terrain Model

1:25 000 Scale



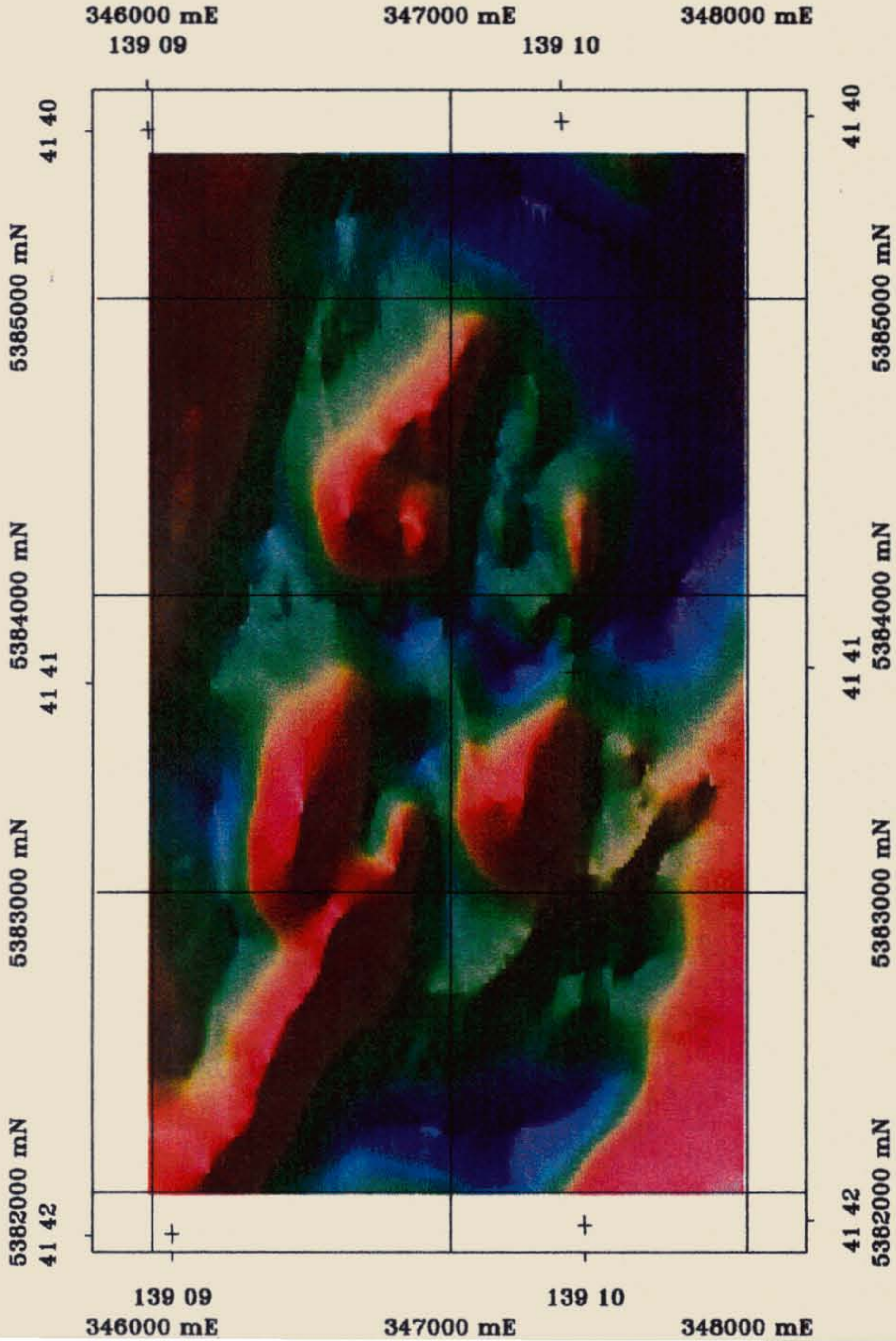
5 cm

5 cm

Lucy Spur Prospect - Total Magnetic Intensity

Relief Shaded with Highlights from 315 degrees

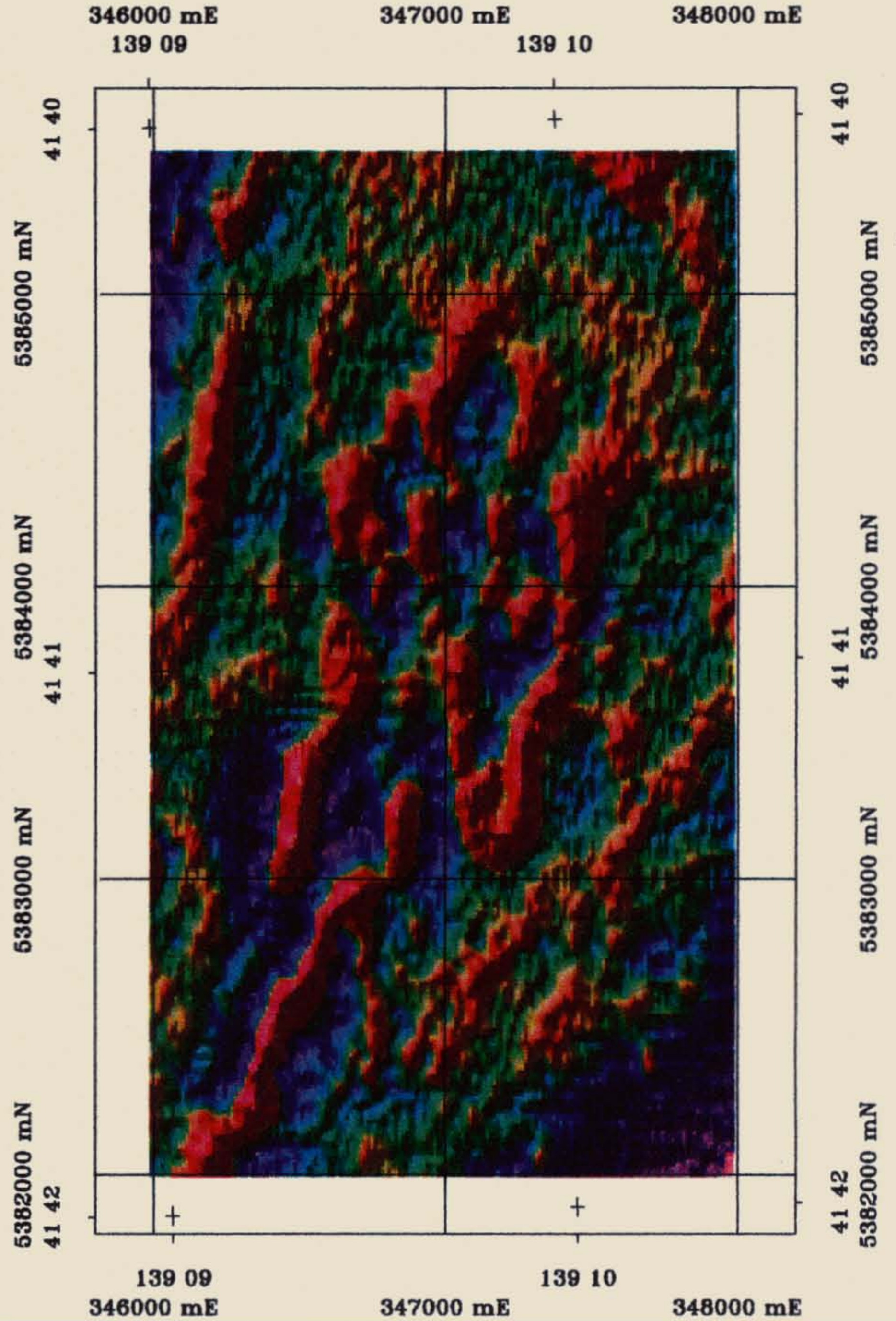
1:25 000 Scale



Lucy Spur Prospect - Residual Hanning Filtered TMI

Relief Shaded with Highlights from 315 degrees

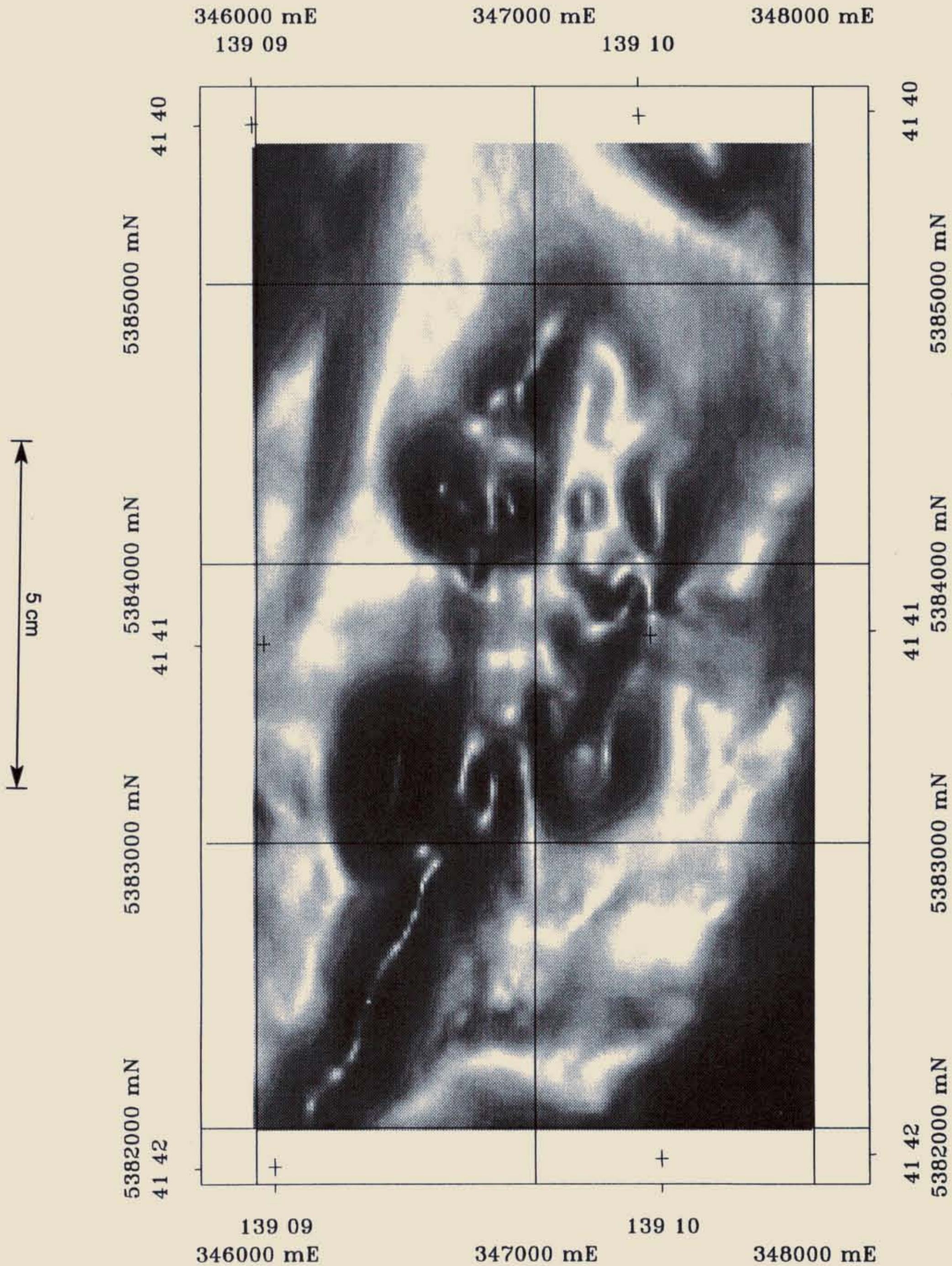
1:25 000 Scale



254221

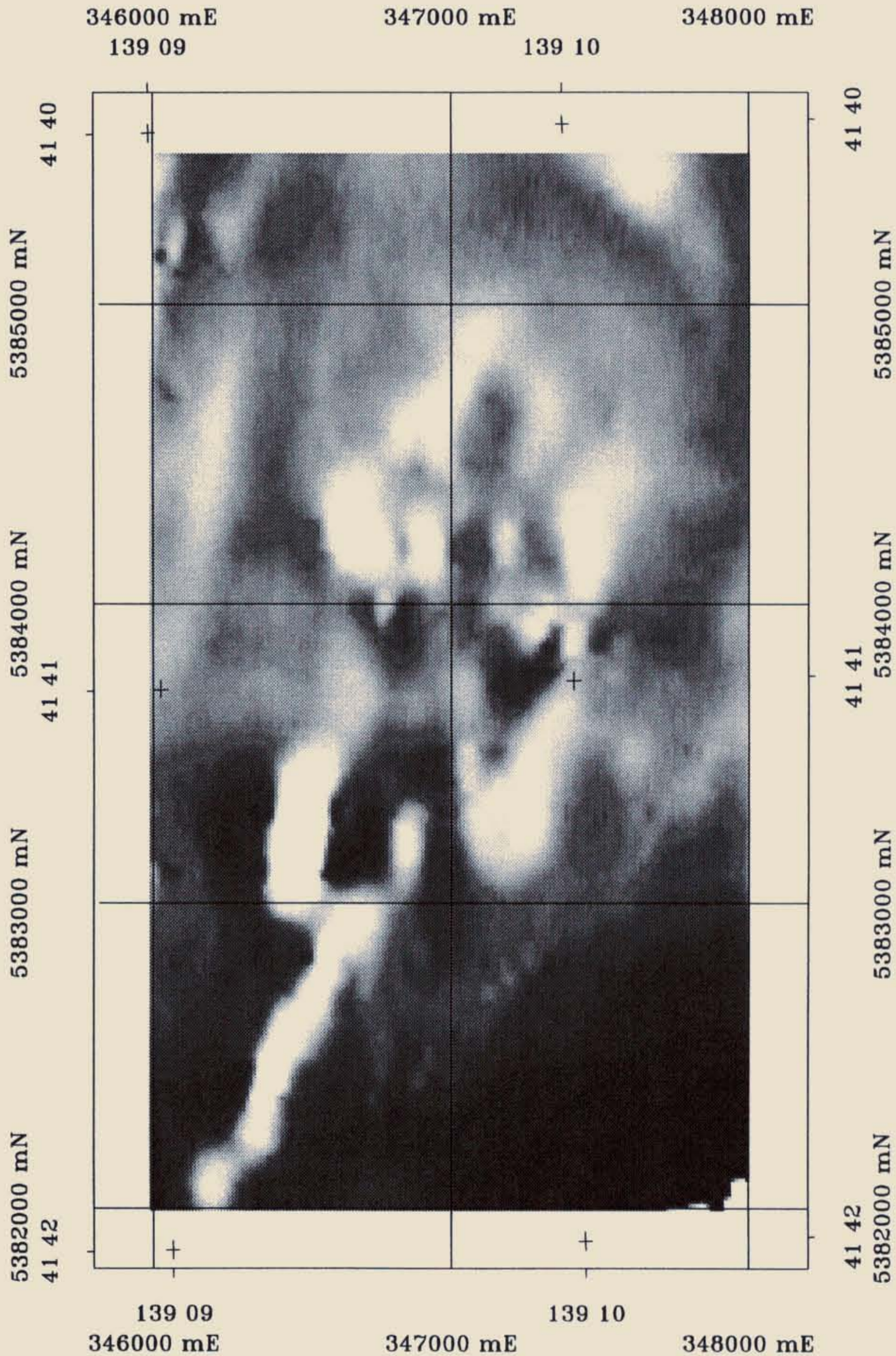
Lucy Spur Prospect - Maximum Magnetic Gradient

1:25 000 Scale



Lucy Spur Prospect - 1vd of TMI Grid

1:25 000 Scale

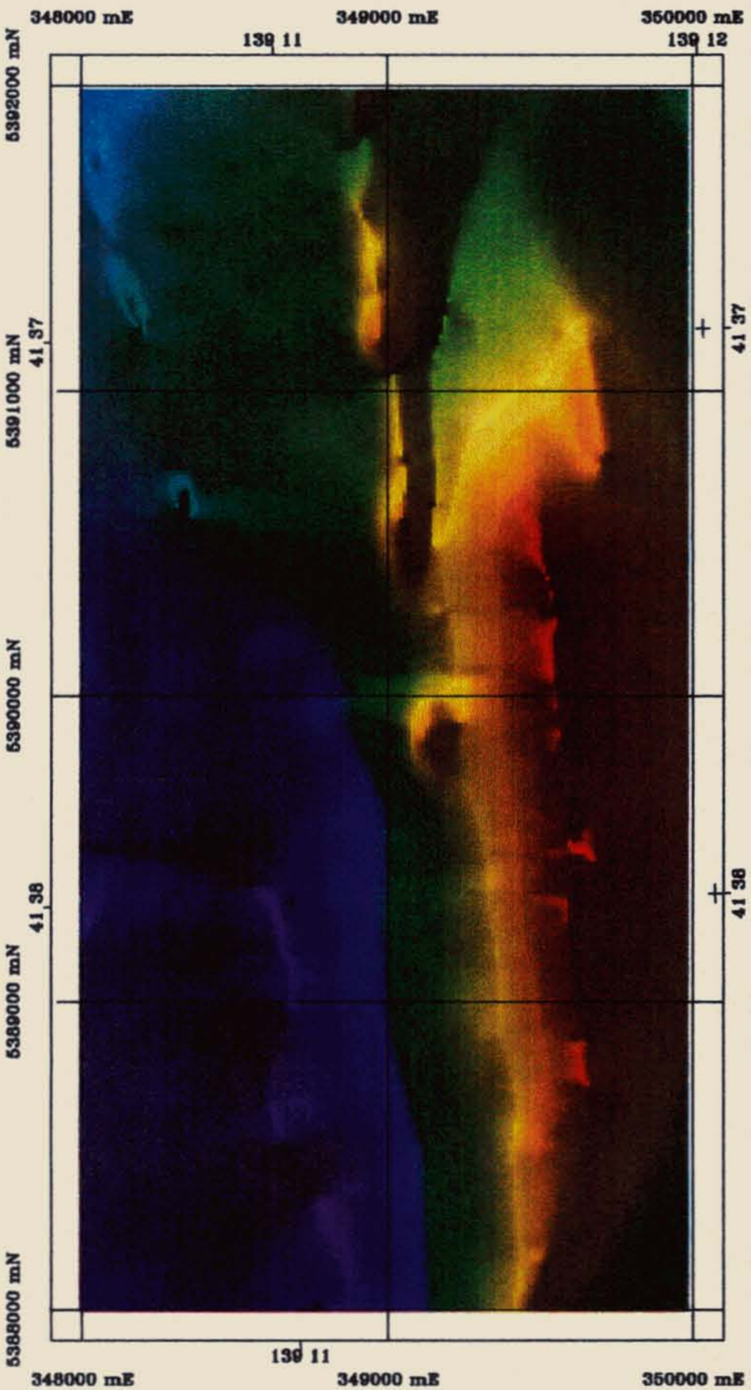


254222

Rocky River Prospect - Total Magnetic Intensity

Relief Shaded from 315 degrees

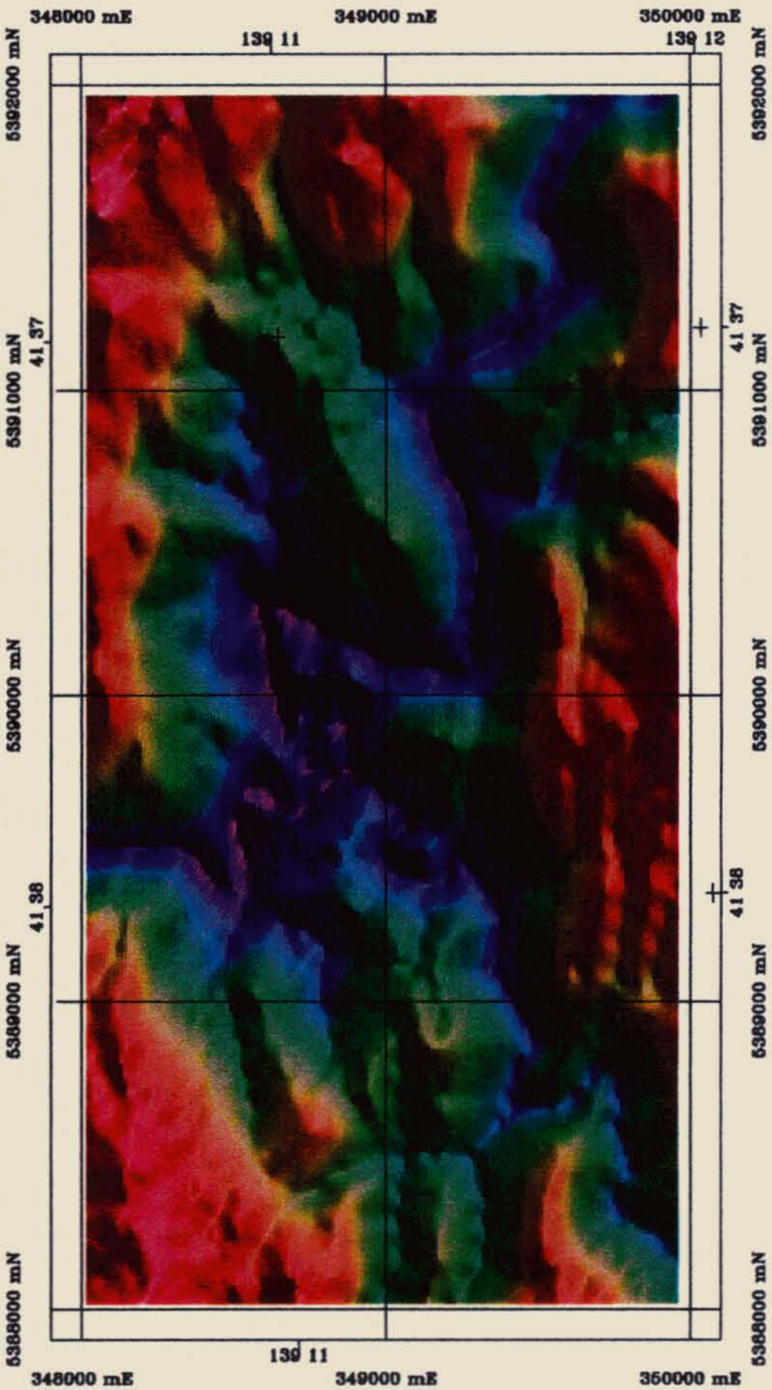
1:25 000 Scale



5 cm

Rocky River Prospect - Digital Terrain Model

1:25 000 Scale

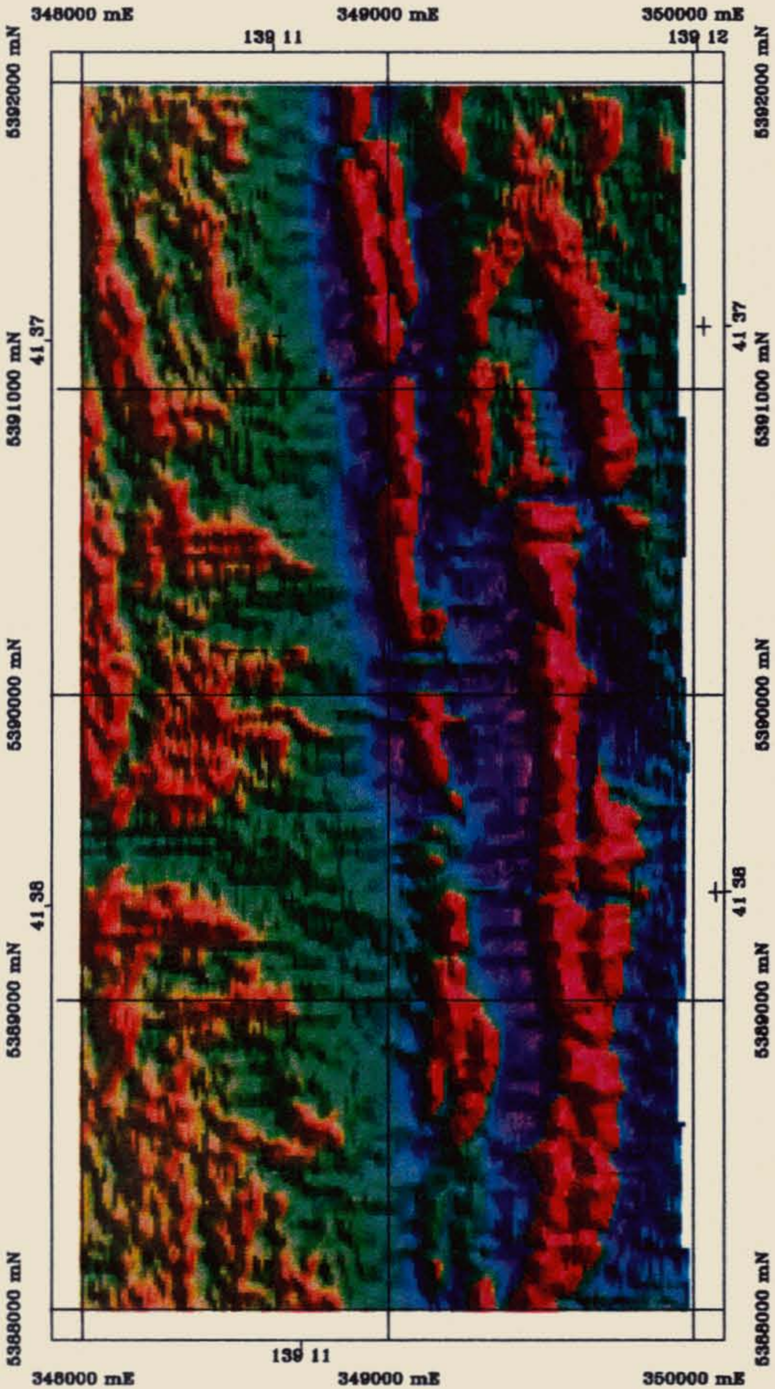


254223

Rocky River Prospect - Residual Hanning Filtered TMI

Relief Shaded with Highlights from 45 degrees

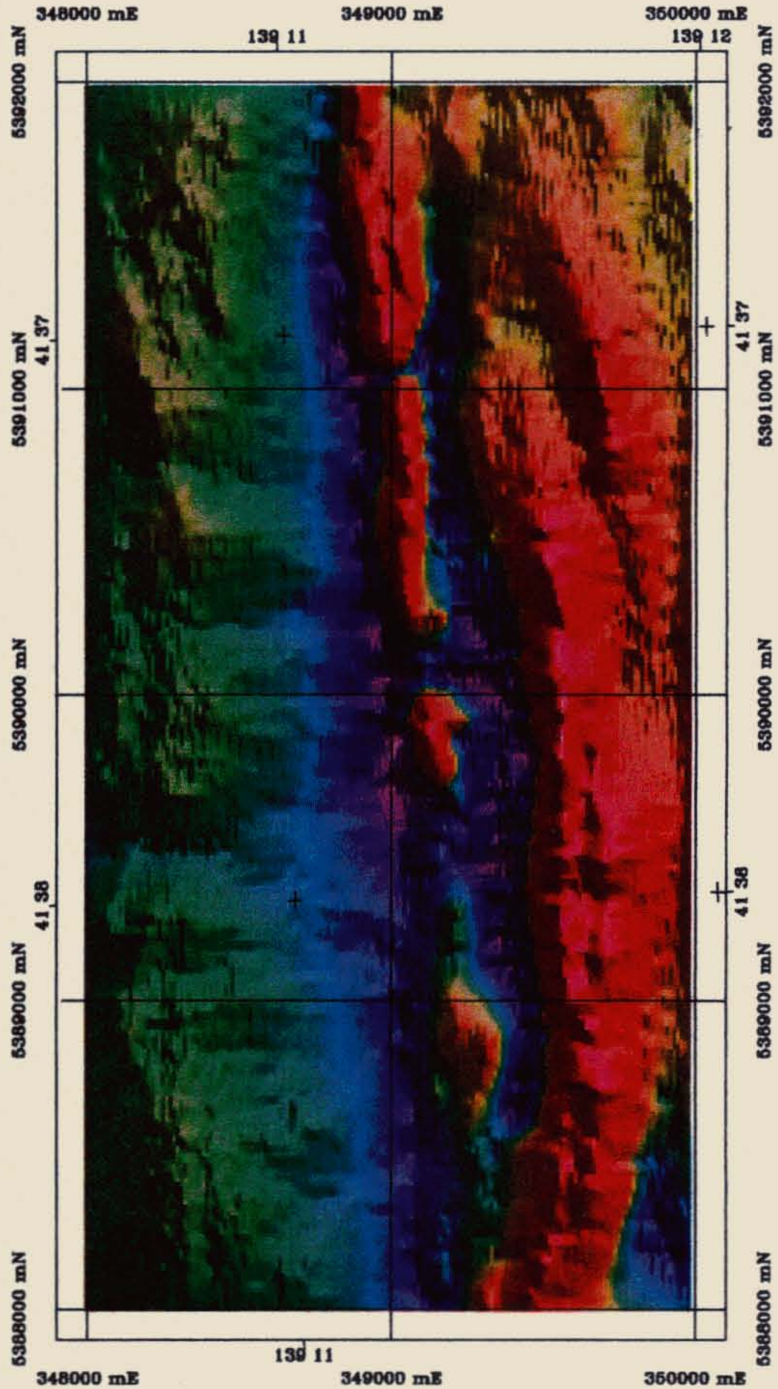
1:25 000 Scale



5 cm

Rocky River Prospect - 1vd of TMI Grid

1:25 000 Scale



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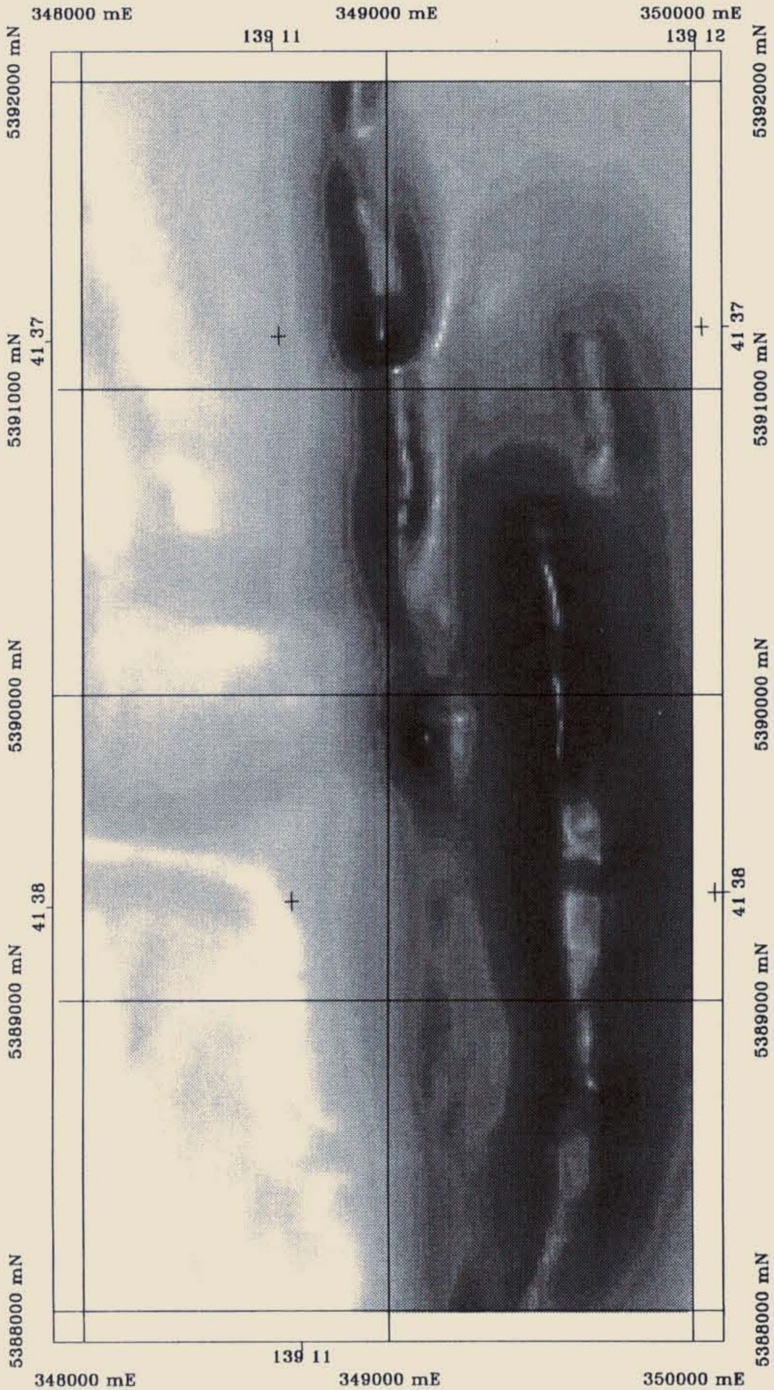
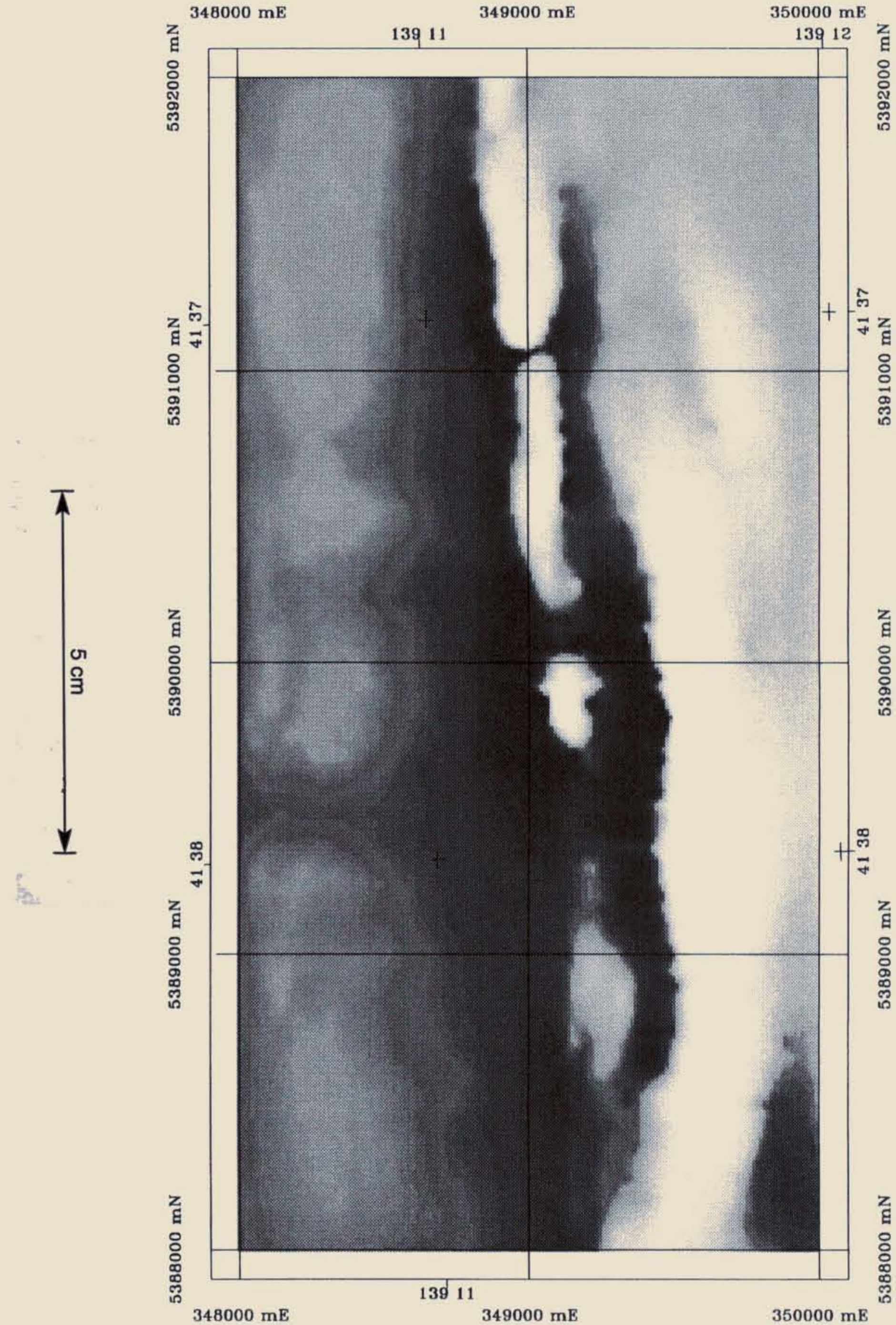
Rocky River Prospect - Maximum Magnetic Gradient
1:25 000 Scale



Rocky River Prospect - 1vd of TMI Grid
1:25 000 Scale



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