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EXPLORATION LICENCE 2/92

"LISLE"

MICROFILMED
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ANNUAL REPORT ON EXPLORATION ACTIVITY

JULY 1995 TO JUNE 1996

96-3895

ANNUAL REPORT - JULY 1995 - JUNE 1996
EL 2/92 "LISLE" - MACMIN NL - D. DUNCAN

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AMG REFERENCE POINTS ADDED

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1.0 SUMMARY

Exploration carried out in the July 1995- June 1996 duration consisted of drilling in the Enterprise- Golden Crest area of the Golconda Goldfield in the north of EL 2/92 held by MACMIN N.L.

Diamond drilling using a light drill rig totalled 195.30m with 3 holes at Enterprise Prospect and one at Golden Crest. Follow up reverse-circulation drilling at Enterprise amounted to 359m in total for a four hole program.

Zones of low grade gold mineralisation were intersected of up to 33m of 0.2g/t gold containing narrower zones with moderate values of up to 2.1g/t over 4m and higher grade values of up to 23.8g/t over narrow intervals of 20-25cm.

The gold mineralisation is contained in quartz-sulphide veins in granodiorite near its contact with hornfelsed Mathinna Group sediments. Geochemically, the mineralisation has an Au-Ag-As-Cu-Pb-Bi signature. The enclosing granodiorite is pervasively modified with phyllic and propylitic styles of alteration.

The mineralisation shows some similarities to low grade, high tonnage porphyry-hosted gold deposits recently discovered in North America.

2.0 WORK CONDUCTED

Exploration carried out in the July 1995- June 1996 duration consisted of drilling in the Enterprise- Golden Crest area of the Golconda Goldfield (Figure 1).

The objective of the drilling was to test an extensive gold (and arsenic)- anomalous soil zone in excess of 1000m long and up to 250m wide, trending northerly through the old workings at Enterprise and Golden Crest (Figs. 2-6 at 1:2,000 scale). This zone defined by +10ppb Au in B-and C- horizon soils collected by Macmin in previous years contains up to six core areas outlined by gold values in C-horizon (auger) samples of +100ppb Au and, in the case of Enterprise, +500ppb Au. Two core areas with the best geochemistry were chosen for drilling, one at Enterprise and one at Golden Crest.

Diamond drilling using a light, man-portable drill rig amounted to 195.30m, disposed in three holes (LSD 1-3) at Enterprise Prospect totalling 165.80m and one hole (LSD 4) at Golden Crest Prospect reaching 29.50m.

This was followed by 359m of reverse-circulation percussion drilling using a UDR 650 track-mounted drill rig with a separate tracked compressor to complete four holes (ENP 1-4) at Enterprise.

Details of the drill holes are in the accompanying Table 1.



AMG 526640E,
5442360N



ENTERPRISE / GOLD CREST GRID

GOLCONDA GOLDFIELD

PANAMA GOLDFIELD

CRADLE CREEK GOLDFIELD

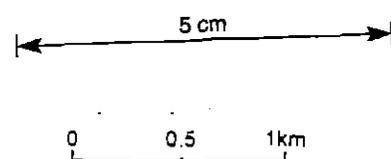
TREVOR'S PROSPECT GRID

BESSELL'S GRID

LONE STAR GOLDFIELD

WILD KNIFE GRID

- ▲ GOLD DEPOSIT (FROM TAS DEPT OF MINES RECORDS)
- RAILWAY
- MAJOR RD
- - - MINOR RD
- ~ CREEK



 MACMIN N.L.	
EL 2/92 LISLE	
NORTHERN SECTION	
	FIGURE 

PROSPECT	HOLE NO (Depth m)	COLLAR CO-ORDS AMG	ORIENTATION	INTERSECTION (From/ to in m)	WIDTH (m)	ASSAY (Au g/t)	GEOLOGY
Enterprise	LSD 1 43.5	5,441,050mN 526,010mE	-60 090 AMG	2.8-8.3	5.5	0.87	oxid. grano with qtz-sulph veins
				26.85-32.30	5.45	cavity	stoped, gold-bearing lode ?
				37.80- 39.85	2.05	cavity	stoped, gold-bearing lode ?
Enterprise	LSD 2 61	5,441,060mN 525,988mE	-60 090 AMG	0.6-2.5	1.9	5.6	oxid. grano with qtz veins
				inc 0.6- 1.6	1	10.2	oxid. grano with qtz veins
				inc 0.60- 0.85	0.25	20.03	bucky white qtz, tr. ferug fractures
				inc 1.4-1.6	0.2	22.8	bucky white qtz, tr. ferug fractures
				12.5-14.05	1.55	1.6	oxid. grano with qtz veins
inc 13.90- 14.05	0.15	6.17	milky white qtz vein				
Enterprise	LSD 3 61.3	5,441,065mN 526,040mE	-60 090 AMG	0-32.6	32.6	0.2	oxid. grano w.?dissem/veinlet min
				inc 18-28.95	10.95	cavity	stoped, gold-bearing lode?
Golden Crest	LSD 4 29.5	5,441,810mN 525,844mE	-60 123 AMG	1-24	23	0.6	oxid. grano w.?dissem/veinlet min
				inc 4.4- 6.4	2	2.8	as above
Enterprise	ENP 1 64	5,441,100mN 526,012mE	-60 090 AMG	52-56	4	2.35	altered grano w. qtz-sulph veins
				inc 55-56	1	6.64	as above
Enterprise	ENP 2 102	5,441,002 mN 526,019mE	-60 090 AMG	0-16	16	0.1	oxid. grano with qtz veins
				inc 9- 10	1	0.88	oxid. grano
				30- 33	3	cavity	stoped, gold-bearing lode?
				80- 84	4	0.1	grano w qtz-sulph veinlets
inc 81 -82	1	2.99	as above				
Enterprise	ENP 3 93	5,441,002mN 525,976mE	-60 090 AMG	43-45	2	cavity	stoped, gold-bearing lode?
				60-76	16	0.13	grano w. qtz-sulph veinlets
				inc 60-61	1	2.25	as above
				inc 61-62	1	1.63	as above
Enterprise	ENP 4 100	5,441,025mN 526,100mE	-60 270 AMG	76-100	24	0.23	altered grano w. qtz-sulph veinlet
				inc 88-92	4	1.25	as above
				inc 91-92	1	0.92	altered grano
				inc 97-98	1	1.45	altered grano w. qtz veinlets

LISLE DRILL RESULTS SUMMARY-TABLE 1

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2.1 Enterprise Prospect

2.1.1 Diamond Drilling Program

A fence of three diamond holes was completed on Line 1.5 to test the sub-surface extent of the soil anomalies at Enterprise. LSD 1, 2 and 3 were drilled as close to the line as logistically possible, were declined at -60 degrees to 090 AMG and reached to depths of 43.5m, 61.0m and 61.3m respectively. Base of oxidation was + 43.5m, 29.0m and 32.6m respectively and LSD 1 encountered two cavities (underground workings) of 5.45m (26.85- 32.30m) and 2.05m (37.80-39.85m) and LSD 3 one cavity of 10.95m (18.00-28.95m). Core recovery was low, particularly in the oxidised zone, at 20%, 57% and 20% respectfully compared with 20%, 75% and 57% throughout the hole.

The entire core was photographed, logged, sampled and analysed for gold and arsenic. The core (NQ and BQ) was halved with a diamond saw and sampled on a lithological basis isolating quartz-veined zones and alteration zones. Apparently unmineralised sections were bulked on a 3 or 4m basis. The samples were analysed by AMDEL Labs., South Australia, gold being determined by (30gm) AAS to 0.02ppm and As to 2ppm by XRF.

2.1.2 RC Percussion Drilling Program

This follow-up program was designed to test for gold mineralisation under the underground workings at Enterprise at a depth of between 70 and 100m. The target zone was presumed to dip approximately 50 degrees west (as in the Gem adit, north of Lone Star Creek) and contain the soil geochemistry, the old stopes, lode and vein structures of the Enterprise Mine and their projection at depth including the gold values encountered in the shallow diamond drilling.

The planned program called for a fence of two holes (each 120m deep) on each of two Lines 1 and 2 with the drill collars located with respect to the soil sample positions and inclined at -60 degrees to 090 AMG (077 magnetic). Each fence was designed to give two intersections of the zone below the old workings which were positioned approximately from a longitudinal section of the Enterprise and Gem Mines found in the Mines Dept and dated 1898.

Line 1 was situated along a gravel forestry road which was closed to traffic with the cooperation of the Forestry Commission's Scottsdale Office. The two drills sites (ENP 2 and 3) were chosen where the rig could sit on the verge of the road and collar in the gutter, plantation timber and terrain preventing the rig being placed entirely off the road. A third hole ENP 4 (-60 degrees to 270 AMG) was also collared from the road between Line1 and Line1.5 when logistical problems prevented two holes being drilled on Line 2.

Line 2 was accessed by a bush track and ENP 1 collared in a cleared, sloping paddock on private property where no earth works were necessary. ENP 1 was stopped at

64m, short of the planned depth of 120m, due to a combination of slow drill rates and excessive water flow which left a slime trail down the paddock and threatened to encroach on an orchard and garden of the property owner. As the second hole planned on this line was directly behind and upslope of the homestead, it was decided to avoid the possibility of pollution of the house and the dam by drilling another hole as near as possible to Line1 instead of here.

ENP 2, 3 and 4 were stopped at 102m, 93m and 100m respectively due to slow drilling rates and, in the case of ENP 3, the additional problem of jamming due to quartz grains falling in behind the rods. While the percussion rig drilled the granodiorite to the base of oxidation between 30 to 50m with ease, it struggled to stay above the slow drilling rate of 7.5 m/hr in the fresh rock. Underground cavities were intersected from 30 to 33m in ENP 2 and 43 to 45 m in ENP 3 in the oxidised granodiorite zone where most of the underground development has taken place at Enterprise.

The drill cuttings were collected over 1m intervals in plastic bags and sampled with PVC tubes or spikes into calico bags of 1-2 kg weight. Composite samples every 4m were produced at the same time and these were assayed for gold by AMDEL using their FA3 fire assay method to 1ppb. Samples over 100ppb Au were followed up by assaying the 1m calicos by the same method. The drill cuttings were logged every second metre and drill chips were kept in plastic containers for reference.

2.1.3. Results

All assay results from the drilling and complete geological logs of the holes are in the Appendix.

All significant gold intersections are contained in Table 1 and the best of these are as follows (listing the 4m composites first and then the 1m re-assays in the RC drilling)-

ENP 1	4m at 2.10g/t Au: inc.1m at 6.64g/t Au 52-56m 55-56m quartz-sulphide veins in altered granodiorite
ENP 2	4m at 0.1g/t Au: inc.1m at 2.99g/t Au 80-84m 81-82m granodiorite with quartz veinlets and pyrite on shears
ENP 3	16m at 0.13g/t Au: inc.1m at 2.25g/t Au; and 1m at 1.63g/t Au 60-76m 60-61m 61-62m altered grey granodiorite with quartz veins and pyrite
ENP 4	24m at 0.23g/t Au: inc.1m at 1.45g/t Au 76-100m 97-98m inc 4m at 1.25g/t Au: and 1m at 0.92g/t Au 88-92m 91-92m altered granodiorite and quartz-sulphide veinlets

LSD 1	5.5m at 0.87g/t Au, 2.8-8.3m oxidised granodiorite with quartz-sulphide veins
LSD 2	1.9m at 5.6g/t Au, 0.6-2.5m oxidised granodiorite with quartz veins inc 0.25m at 20.03g/t Au, 0.60-0.85m and 0.20m at 23.80g/t Au, 1.40- 1.60m bucky white quartz with minor ferruginous fractures
LSD 3	33m at 0.2g/t Au, 0-33m oxidised granodiorite with ?disseminated and veinlet mineralisation; includes 11m stoped cavity

2.2 Golden Crest Prospect

One diamond drill hole (LSD 4) was completed at Golden Crest on Line 9 approximately 800m north of Enterprise. The hole was oriented to 123 AMG and declined at -60 degrees and collared to test the subsurface response of a NE-trending C-horizon +100ppb Au soil anomaly. The anomaly is 20m wide with gold values up to 250ppb and arsenic up to 700ppm (although the arsenic response continues to the east). The hole was collared in sediment float and ended at 29.5m entirely in oxidised granodiorite. Core recovery was very low at 18%. The results were as follows-

LSD 4	23m at 0.6g/t Au, 1-24m inc. 2m at 2.8 g/t Au, 4.40-6.40m oxidised granodiorite with ?disseminated and veinlet mineralisation
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3.0 MINERALISATION

All significant gold intersections from the drilling at Enterprise are plotted on three drill sections, disposed along a strike length of 100m, on Fig. 7 along with the C-horizon soil geochemistry.

Broad zones of low grade gold values of up to 33m of 0.2g/t Au(LSD 3) contain narrower, higher grade values of up to 2.1g/t Au over 4m, including up to 6.64g/t Au over 1m(ENP 1). The richest gold assays of up to 23.8g/t are restricted to 20-25cm wide quartz veins enclosed within an interval of 5.6g/t Au over 1.9m(LSD 2).

Correlation of gold-bearing zones involving the drilling and the surface geochemistry is shown on Fig. 7 using a cut-off of 0.1g/t Au and assuming the cavities in the drilling represent stopes from which reasonable grade mineralisation has been removed. The correlations have been attempted using a 50-60 degree west dip on the lode structures (as deduced from the quartz lodes in the Gem and Golden Crest adits to the north). However, a vertical control to the bulk distribution of the mineralisation may be equally valid.

The best gold grades occur with sulphidic quartz veins up to 25cm in altered, bleached granodiorite. However, as seen from the drill logging, not all quartz veins are auriferous and several generations are apparent in the drill core. The longer, lower grade intersections may be due to disseminated mineralisation and/or narrow (up to 2cm) veinlets as swarms in granodiorite.

In the diamond drilling, the best gold grades occur in the oxidised zone in contrast to the RC drilling where they occur in the unweathered granodiorite. It does not appear that this is due to supergene enrichment. Base of oxidation is at 30-40m from the surface and it appears that most of the historic underground mining has been confined to the oxidised zone where the granodiorite is relatively soft allowing shaft and adit access and where the gold has been liberated by oxidation of the sulphides.

In summary, low grade gold mineralisation has been confirmed by drilling over a strike extent of 100m, confirming the soil geochemistry but revealing falling rather than increasing widths. The low grade of the mineralisation and its patchy distribution does not at present permit the calculation of an in situ gold resource.

4.0 ORIGIN AND POTENTIAL

The gold mineralisation at Enterprise and Golden Crest is associated with quartz - sulphide veins, shears and breccias in an altered granodiorite close to its contact with hornfelsed Mathinna sediments. Hornfels has been encountered in the last few metres of ENP 1 and 2 although whether this is the main contact or merely narrow screens of sediment is not known.

Limited geochemistry on two lode samples- one from the Telecom trench at Enterprise(20,112) and one from the Powerline adit, Golden Crest(20,118)- shows a gold-silver-arsenic-copper-lead- bismuth signature to the mineralisation. Gold is up to 8.8ppm, silver to 12.0ppm, arsenic to 3.16%, copper to 980ppm, lead to 580ppm and bismuth to 260ppm (see Appendix).

Petrographic work on the veins and host rocks reveals that the gold is up to 60 microns in size and is pale-coloured electrum associated with chalcopyrite, pyrite and ?maldonite(Au₂ Bi). Lode assays with silver/gold ratios of over 50% suggest that the electrum may be close to this composition as no silver-bearing minerals(other than galena) have been seen microscopically (Appendix).

The sulphides in the quartz veins include abundant pyrite, chalcopyrite, arsenopyrite and pyrrotite, and traces of molybdenite, bismuthinite, marcasite, galena, and sphalerite.

Hydrothermal alteration associated with the mineralisation is pervasive comprising sericitisation, chloritisation, sulphidation and carbonation. The predominant style is phyllic(sericitisation and pyritisation of feldspar) with subsidiary propylitic alteration (carbonation and chloritisation of hornblende and biotite).

Alteration may have occurred from late-stage, magmatic-dominated fluids released during sub-solidus cooling of the granodiorite with pyrrhotite and molybdenite forming at this stage. Later hydrothermal activity, at lower temperatures, deposited most of the sulphides and gold in recrystallised and brecciated quartz veins formed by tectonic stresses and/or fluid overpressuring .

The mineralisation at Enterprise-Golden Crest appears to be generally similar in style to the low grade, bulk tonnage porphyry gold deposits recently discovered in North America such as Fort Knox, Alaska and Dublin Gulch, Yukon. While the Lisle granodiorite is much older (Devonian) than the Cretaceous host granitoids of these deposits, the geochemistry, mineralogy and alteration of the mineralised systems appears substantially identical. This demonstrates the potential of the Lisle region to host mineral deposits of this type with the possible prize being in the range 50-150 million tonnes grading 0.8-1.0g/t Au.

5.0 REHABILITATION

All drill sites were cleaned up following the drilling program and the drill holes capped. The plastic sample bags of drill cuttings were taken to the Scottsdale tip other than those on private property which were left at the request of the owner for eventual use as mud bricks and pottery glazes. The slime trail in the cleared paddock from drill hole ENP 1 was shovelled and bagged immediately following the completion of the hole and the remainder left to dry over several weeks. Subsequently, the residue was hand raked, bagged and dispersed to the satisfaction of the owner. Drill slimes were dug out of drainage gutters and an underground culvert along the forestry road and the contours re-established to allow the free passage of storm water. Pine needles and leaf litter were spread over the drill sites to mask the visual impact of surface disturbance.

APPENDIX

- : Summary of Drill Holes**
- : Drill logs---RC Percussion Drilling (logged by D. Duncan)**
 - Diamond Drilling (logged by G. MacDonald)**
 - Core Loss Record**
- : Sample Data Sheets**
- : Analytical Results from AMDEL**
- : Petrographic Descriptions (R. Bottrill, Tas Mines Dept)**

Summary of Drill Holes

LSD 1

0- 1.40m precollar

2.80-8.30m

5.50m at 0.87g/t Au; 36ppm As

rubbly, white, bucky quartz with trace arsenopyrite, pyrite, limonite in oxidised granodiorite, great core loss (85%)

26.85-32.30m

5.45m cavity-old stopes, presumably originally contained lode material

37.80-39.85m

2.05m cavity, wood-old stopes, originally contained lode material?

Comments: oxidised granodiorite to end of hole at 43.50m; up to 10cm of white, buck quartz at 12.40m, 26.35m, 32.35m and 36.80m but no gold (less than 0.04g/t); oxidised granodiorite has less than 0.03g/t Au throughout but As gets up to 420ppm, in some places with pyrite and arsenopyrite on fracture surfaces.

LSD 2

0-0.60m precollar

0.60-2.50m

1.90m at 5.6g/t Au; 293ppm As

strongly oxidised granodiorite, averaging 0.54 g/t Au, 367ppm As, now orange brown clay

inc. 0.60-0.85, 0.25m at 20.03g/t Au; 43ppm As; bucky white qtz with tr. ferrug. fractures

and 1.40-1.60, 0.20m at 23.80g/t Au; 71 ppm As; bucky white quartz as above core loss (20%)

2.50-3.30m

0.80m at 0.39g/t Au; 16ppm As

strongly oxidised granodiorite

7.50- 12.50m

5.00m at 0.10g/t Au, 234ppm As

strongly oxidised granodiorite with quartz veins

12.50-14.05m

1.55m at 1.6g/t Au; 84ppm As

moderately oxidised granodiorite with qtz veins
inc. 13.90-14.05m; 0.15m at 6.55 g/t Au, 42ppm As; milky white quartz

29.00m base of oxidation to end of hole at 61.00m, fresh granodiorite with variable amount of quartz veining, some gold anomalous, some not-eg.

29.75- 30.67m, 0.92m at 0.12g/t Au; 4ppm As; quartz veins intersecting

48.60-49.90m, 1.30m at 0.02g/t Au; 13ppm As; barren white quartz vein, parallel to core axis with minor galena? and pyrite

51.80- 53.30m, 1.50m at 0.03g/t Au; 34ppm As; barren white quartz vein, sub-parallel to core axis with minor galena? and pyrite

58.30- 59.20m, 0.90m at 0.18g/t Au; 41ppm As; sheared altered granodiorite with sulphides, no quartz

Comments: most gold values in the oxidised zone in narrow quartz veins to 25cm; oxidised granodiorite also has gold values to 0.5g/t in places; below oxidation level interest falls off with few quartz veins being gold-bearing even when containing sulphides; the fresh granodiorite contains less than 0.03g/t Au as background except in one place(above) where it reaches 0.18g/t with sulphides.

LSD 3

0-1.50m precollar

1.50-18.00m;

16.50m at 0.20g/t Au; 51ppm As

strongly oxidised granodiorite, now orange brown clay

18.00-28.95m;

10.95m of cavity and timber, presumed former lode material removed?

28.95-32.60m

3.65m at 0.23g/t Au, 230ppm As

moderately oxidised granodiorite with ferrug. fractures and vugs

core loss high to 32.60m (80%)

32.60m base of oxidation to end of hole at 61.30m, fresh granodiorite with only occasional quartz veining, some gold anomalous, some not, eg.

37.70-38.10m; 0.40m at less than 0.02g/t Au, less than 2ppm As; grey, barren quartz vein or silicification at 20 degrees to core axis; tr pyrite and galena?

60.00- 61.30m; 1.30m at 0.10g/t Au; quartz-veined granodiorite with smoky quartz veins up to 10mm with carbonate, and minor pyrite and galena?

Comments: low level gold averaging 0.20g/t as disseminated or veinlet mineralisation in oxidised granodiorite from surface to base of oxidation at 33m; higher grade values and lodes were presumably extracted from the 11m stope intersected; below 33m to end of hole at 61.30m the fresh granodiorite has 0.02g/t Au or less as background; occasional zones of quartz veins with traces of sulphides may be gold- anomalous or not.

LSD 4

0-1.00m precollar

1.00-24.00m; 23m at 0.6g/t Au; 251ppm As
moderately to strongly oxidised granodiorite with some orange brown clay and very occasional quartz rubble and in places numerous ferrug. fractures after sulphides

core loss high at 82%

inc. 4.40-6.40m; 2.00m at 2.80g/t Au; 36ppm As; mostly orange brown clay, no quartz or sulphides visible

core loss high at 62%

inc. 19.35-24.00m; 4.65m at 0.23g/t Au; 860ppm As; oxidised granodiorite with ferrug. fractures after sulphides

core loss extreme at 95%

Comments: low level gold averaging 0.6g/t in oxidised granodiorite from disseminated or veinlet mineralisation from surface to base of oxidation at about 24m; weakly oxidised granodiorite from there to end of hole at 29.50m has less than 0.02g/t Au from the minor amount recovered; few quartz veins.

ENP 1

0-30m oxidised granodiorite, with varying amounts of quartz in places to 20mm, particularly 12-16m and 20- 24m;
inc. 12-16m, 4m at 74ppb Au; inc. quartz frags with ferrug. coatings and 20-24m, quartz is barren (8ppb Au)

30-59m granodiorite, quartz frags in places up to 30%, eg.36-40m and 52-60m;

inc. 52-56m, 4m at 2.10g/t Au in siliceous (altered) granodiorite with quartz to 20mm with pyrite and arsenopyrite seams and 1% galena/moly

and 56-60m, 4m at 0.08g/t Au in siliceous grano, tr py, arseno and qtz

recalculation of above based on 1m follow up assays gives

52-56m, 4m at 1.76g/t Au; inc 55-56m, 1m at 6.64g/t Au

52-59m, 7m at 1.06g/t Au

59-64m dark hornfelsed metasediment with trace pyrite and quartz

Comments: best 4m intersection of RC drilling at 52-56m; two possible quartz lodes intersected in oxidised zone, one anomalous, one barren; background gold up to 48ppb in oxidised zone compared with up to 5ppb in fresh zone.

ENP 2

0-44m oxidised granodiorite, with quartz frags in places to 10mm eg. 4-5m, 16-17m, 26-27m and 32-33m;

0-16m, 16m at 0.10g/t Au; inc. 8-12m, 4m at 0.27g/t Au
follow up assays: 1m (9-10m) at 0.88g/t Au

30-33m, 3m cavity -presumed old workings

44-102m granodiorite to end of hole; variable grey to dark and black grano with tr pyrite in qtz (and ?galena) and shears in places eg 64-65m, 76-77m, 80-84m and 92-100m; some gold anomalous, some barren; possible hornfels at 83-86m, 94-96m and 101-102m.

80-84m, 4m at 0.10g/t Au; grano with 1% py on shears; also qtz selvages
follow up assay 1m(81-82m) at 2.99g/t Au

96-100m, 4m at 0.10g/t Au; grey siliceous grano with py, arseno and quartz
follow up assay 1m(97-98m) at 0.21g/t Au, 1m(98-99m) at 0.13g/t Au

Comments: best 1m intersections at 9-10m and 81-82m with 0.88g/t and 2.99g/t gold respectively, included in broader zones of mineralised granodiorite from surface to 16m(oxidised) and deeper in hole at 80-84m and 96-100m; gold-bearing material presumably extracted from cavity at 30-33m; gold seems to occur where sulphides and quartz become more intense; background gold content of oxidised grano is 10ppb and above (up to greater than 100ppb where mineralised) compared with 10ppb and below for fresh un-oxidised grano.

ENP 3

0-50m oxidised granodiorite; with quartz frag in places eg. 6-7m, 14-27m, 36-41m (lots), 44-45m, 48-49m, 54-55m, 60-61m, 78-79m and 89-90m.

12-24m, 12m at 0.08g/t Au; oxidised grano with qtz to 20mm
follow up assays: 1m at 14-15m, 17-18m and 20-21m at 0.49, 0.34 and 0.31g/t Au respectively;

43-45m, 2m cavity -presumed old workings

50-93m granodiorite to end of hole; grey grano with some bleached zones and 1% qtz selvages and py from tr to 3%;

60-76m, 16m at 0.13g/t Au; bleached (altered) and grey grano with qtz to 30%, and pyrite
follow up assays: 1m at 60-61m, 61-62m and 72-73m at 2.25, 1.63 and 0.33g/t Au respectively;

Comments: best 1m intersections at 60-61m and 61-62m with 2.25g/t and 1.63g/t gold respectively, in broad zone (60-76m) of mineralised, altered granodiorite; another zone of lesser grades occurs in the oxidised zone at 12-24m; gold-bearing material presumably extracted from cavity at 43-45m; not all of the numerous quartz zones are gold-bearing eg. 21-27m, 36-41m, 78-79m and 89-90m; less of a contrast in background gold values between the oxidised and fresh grano both mostly being under 25ppb.

ENP 4

0-50m oxidised granodiorite; with quartz frags in places eg. 9-12m, 41-46m, 61-62m, 71-72m and 75-100m (only the last is gold-bearing);

50-100m end of hole; grey to dark grano with bleached zones with up to 1% quartz and pyrite from 75m onwards; possible hornfels (with tr. py and qtz) at 69-75m, 92-93m and 99-100m.

76-100m, 24m at 0.23g/t Au; inc. 4m (88-92m) at 1.25g/t Au
follow up assays: 1m at 91-92m and 97-98m at 0.92 and 1.45g/t Au respectively

Comments: best 1m intersections as above in broad zone (24m) of gold-anomalous (0.23g/t), altered granodiorite with up to 1% quartz and pyrite; not all qtz rich zones are gold-bearing; no great difference in background gold values between oxidised and fresh granodiorite, both are mostly below 30ppb.

PROJECT:

WISLE

HOLE NO:

ENP 1

DRILL TYPE:

UDR 650

PROSPECT:

ENTERPRISE

DATE COMMENCED:

27/03/96

DRILLER:

TONY CHERRY

COLLAR CO-ORDS:

S_{1441,100mN}; S_{26,012mE}*

DATE COMPLETED:

28/03/96

LOGGED BY:

D.H.P. DUNKAN

COLLAR RL:

± 130m

TOTAL DEPTH (M):

64m

DATE:

28/03/96

AZIMUTH:

090 GRD / 077 MAG

BASE OF COMPLETE

30m

LABORATORY USED:

AMEL

DIP:

-60°

OXIDATION:

30m

* 8m W of sample 11064 (line 2).

WATER TABLE 26m

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS						
				Sample No.	From	To	Rec	Au (ppb)	Ag	Cu	Pb	Zn		
0	1	SOIL ± OXIDISED IN SITU BEDROCK		20,001	0	4	29							
1	2	brown soil												
2	3													
3	4	tan soil (qtz & grano frags)												
4	5			20,002	4	8	48							
5	6													
6	7	light tan soil (qtz & grano frags)												
7	8													
8	9	light tan soil (qtz frags)		20,003	8	12	19							
9	10													
10	11	light brown soil (qtz frags)												
11	12													
12	13	light brown soil (qtz frags with ferrug (watering))		20,004	12	16	74							
13	14			20,017	Duplicate		64							
14	15	tan soil (qtz frags with black ferrug (watering))												
15	16													
16	17	yellow brown soil (qtz grains + qtz 30% to 20mm)		20,005	16	20	23							
17	18													
18	19	yellow brown soil (grano + minor qtz)												
19	20													

348017

PERCUSSION

DRILL HOLE LOG

MACMIN N.L.

HOLE NO

ENPI

PAGE NO.

TWO

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS					
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn	
20	21	yellow brown soil (oxid grano + tr qtz frags)	complete oxidation ↑	20,006	20	24	8						
21	22												
22	23	yellow brown soil (dark grano + 30% qtz to 20mm)											
23	24												
24	25	yellow brown soil (oxid grano + qtz to 10mm)			20,007	24	28	3					
25	26												
26	27	" " " (grano + qtz)											
27	28												
28	29	" " " " "			20,008	28	32	6					
29	30				20,018	DUPLICATE		17					
30	31	" " " (grano + qtz to 10mm + ga?)											
31	32												
32	33	grano & minor qtz		20,009	32	36	5						
33	34												
34	35	grano & minor qtz											
35	36												
36	37	grano w 30% white qtz		20,010	36	40	3						
37	38												
38	39	grano & minor qtz											
39	40												
40	41	grano w qtz to 5mm (some mo?)		20,011	40	44	2						
41	42												
42	43	grano w qtz (minor)											
43	44												

348018

PERCUSSION

DRILL HOLE LOG

MACMIN N.L.

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS						
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn		
44	45	quano w minor qtz (w galena w moly?)		20,012	44	48	2							
45	46													
46	47	quano w minor qtz + py												
47	48													
48	49	quano w silic. patches w qtz (and ga)		20,013	48	52	3							
49	50													
50	51	quano w 5% qtz with tr mo w ga												
51	52													
52	53	sil. quano w py qtz (ga?) (mo?); qtz 3% to 10mm		20,014	52	56	2080	180						
53	54	sil. green quano (py); 5% qtz to 20mm + py arseno		20,019	DUPLICATE		2630	160						
54	55	sil. quano w 5% qtz to 10mm; 1% galena (mo?)					2367	44						
55	56	sil. quano w 5% qtz to 20mm w py, arseno silic. mo						6640						
56	57			20,015	56	60	80	180						
57	58	sil. quano w trace py (arseno); tr qtz						130						
58	59	hornfels						120						
59	60	dark quano w qtz 5%						13						
60	61	hornfels		20,016	60	64	11							
61	62	dark quano; tr py, qtz												
62	63	dark quano; tr qtz												
63	64	as above hornfels												
		END OF HOLE												
		hole stopped due to slow drilling rate and too much water & slimes polluting packhole.												

ONE METRE ASSAYS

Au ppb

20,110/11 Petrog

20,117 Petrog

348019

PROJECT: LISLE
 PROSPECT: ENTERPRISE
 COLLAR CO-ORDS: 5,441,002mN; 526,019mE*
 COLLAR RL: ± 140m
 AZIMUTH: 090GLD/077MAG
 DIP: -60°

HOLE NO: ENP 2
 DATE COMMENCED: 28/03/96
 DATE COMPLETED: 1/04/96
 TOTAL DEPTH (M): 102m
 BASE OF COMPLETE OXIDATION: 44m

DRILL TYPE: WDR 650
 DRILLER: TONY CHERRY
 LOGGED BY: D. DUNCAN
 DATE: 1/04/96
 LABOATORY USED: ANDEL

* 2m W; 2mm of sample 11014 (liner)

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS						
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn		
0	1	SOIL ± OXIDISED IN SITU BEDROCK buff soil ; qtz to 10mm		20,020	0	4	80	87						
1	2	dark chocolate soil						73						
2	3	red-brown soil ; qtz (grains)						62					ONE METRE	
3	4	light brown soil						100					ASSAYS	
4	5	light tan soil ; qtz to 10mm		20,021	4	8	68	56						
5	6	" " "						70					Au Pb	
6	7	tan soil						120						
7	8							17						
8	9	tan soil		20,022	8	12	270	18						
9	10							880						
10	11	red-brown soil						41						
11	12							40						
12	13	red-brown soil		20,023	12	16	31	24						
13	14							11						
14	15	red-brown soil						43						
15	16							40					20,224	
16	17	tan soil ; qtz grains to 10mm		20,024	16	20	42							
17	18			20,046	DUPLICATE		30							
18	19	red soil ± qtz (grains)												
19	20													

348020

PERCUSSION

DRILL HOLE LOG

MACMIN N.L.

HOLE NO

~~100~~ ENP2

PAGE NO.

TWO

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING			ASSAYS						
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn	
20	21	red soil	SCIS	20,025	20	24	27						
21	22												
22	23	red soil											
23	24												
24	25	brown soil			20,026	24	28	15					
25	26												
26	27	brown soil ; qtz to 10mm											
27	28												
28	29	brown soil			20,027	28	32	11					
29	30												
30	31	clay ; occ. qtz, feldspar grains											
31	32	NO SAMPLE											
32	33	brown clay ; qtz (grano) to 5mm			20,028	32	36	8					
33	34												
34	35	brown clay ; qtz (grano) grains											
35	36												
36	37	brown soil ; qtz, feldspar grains to 1mm			20,029	36	40	5					
37	38				20,047	DUPLICATE 4							
38	39	brown soil ; qtz (grano) grains											
39	40												
40	41	brown soil ; qtz and oxid red grano grains		20,030	40	44	30						
41	42												
42	43	brown soil ; qtz grains											
43	44												

COMPLETE OXIDATION
↑

348021

PERCUSSION

DRILL HOLE LOG

MACMIN N.L.

HOLE NO

ENP2

PAGE NO.

THREE

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS					
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn	
44	45	red (oxid) grano; trace qtz		20,031	44	48	5						
45	46												
46	47	red (oxid) and dark grano; trace qtz											
47	48												
48	49	dark grano (tr py, tr qtz)		20,032	48	52	9						
49	50												
50	51	dark grano; tr qtz to 2mm											
51	52												
52	53	dark grano; 1% qtz veinlets, tr py/arseno		20,033	52	56	4						
53	54												
54	55	grano; tr py along fractures, tr qtz											
55	56												
56	57	grano; w. qtz partings w. tr. ga (mo?)		20,034	56	60	5						
57	58			20,048	Duplicate		8						
58	59	grano; w. qtz partings and fractures w. ^{carbonate} sericite											
59	60												
60	61	grano; w. qtz partings & 1% qtz grains		20,035	60	64	13						
61	62												
62	63	grano; 2% qtz to 10mm											
63	64												
64	65	sil. grano (py); 2% qtz to 10mm w. galena		20,036	64	68	15						
65	66												
66	67	dark grano w. sil partings & py											
67	68												

348022

PERCUSSION

DRILL HOLE LOG

MACMIN N.L.

HOLE NO

ENP2

PAGE NO.

Four

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING			ASSAYS							
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn		
68	69	grano	?	20,037	68	72	10							
69	70													
70	71	grey sil. grano ; tr qtz												
71	72													
72	73	grano ; py on shears			20,038	72	76	1						
73	74													
74	75	grano												
75	76													
76	77	grano ; 2% qtz w py			20,039	76	80	10						
77	78													
78	79	grano												
79	80													
80	81	grano w 1% py on shears			20,040	80	84	120	7				29	225
81	82				20,049	DUPLICATE		69	29	90				
82	83	grano w qtz selucos							3					
83	84								1				20	228
84	85	black grano w py (po?)		HORNFEAS	20,041	84	88	8						
85	86													
86	87	black and grey grano w qtz veins; py in black grano												
87	88													
88	89	grey sil grano ; tr py, qtz		20,042	88	92	12							
89	90													
90	91	grey sil grano ; w py, 5% qtz to 10mm												
91	92													

ONE METRE ASSAYS
Au 166

348023

PERCUSSION

DRILL HOLE LOG

MACMIN N.L.

HOLE NO

EN P2

PAGE NO.

FIVE

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS						
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn		
92	93	grey sil. / mafic grano + black grano; 5% qtz	HORNFEEL?	20,043	92	96	8							
93	94													
94	95	dark grano; w sil patches; w py (po?) tr; 1% qtz												
95	96	" " " " " "												
96	97				20,044	96	100	130	19		20,	22.9		
97	98	grey sil grano; 5% qtz; arseno? patches			20,050	DUPPLICATE		43	210			20,	116	P
98	99								130					
99	100	grano (sil and bronze patches); w arseno? 1-2% qtz							30		20,	23.2		
100	101	grey sil & dark grano w sil selvages w py			20,045	100	102	20						
101	102	dark grano (HORN FEELS?)												
		END OF HOLE.												
		(stopped because of slow drilling rate)												

348024

PROJECT:

L152E

HOLE NO:

ENP3

DRILL TYPE:

UDR 650

PROSPECT:

ENTERPRISE

DATE COMMENCED:

1/04/96

DRILLER:

TONY CHERRY

COLLAR CO-ORDS:

S, 441,002 mN; 325,976 mE

DATE COMPLETED:

2/04/96

LOGGED BY:

D. DUNCAN

COLLAR RL:

-2 140 m

TOTAL DEPTH (M):

93 m

DATE:

1/04/96

AZIMUTH:

090 GRID/077 MAG

BASE OF COMPLETE

50 m

LABOATORY USED:

ANDEL

DIP:

-60°

OXIDATION:

37 m

* 2mN; 8mW of sample 11016 (hole) WATER TABLE

43 m along road from ENP2

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS					
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn	
0	1	SOIL ± OXIDISED IN SITU BEDROCK grey silt		20,051	0	4	18						
1	2												
2	3	dark tan soil											
3	4												
4	5	pink-brown silt/soil		20,052	4	8	7						
5	6												
6	7	brown sand; qtz (grano) to 20mm											
7	8												
8	9	dark red (russet) sand/soil		20,053	8	12	29						
9	10												
10	11	" " "											
11	12												
12	13	" " "		20,054	12	16	90	3					
13	14							79					
14	15	light brown sand; qtz (Lil grano) to 10mm						490					
15	16							76					
16	17	light tan sand; sil grano to 5mm		20,055	16	20	90	64					
17	18							340					
18	19	light tan soil; qtz + sil grano. to 10mm						150					
19	20							64					

ONE METRE ASSAYS Au Pb

348025

PERCUSSION

DRILL HOLE LOG

MACMIN N.L.

HOLE NO ENP3
PAGE NO. TWO

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS					
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn	
20	21	light tan soil; qtz/sil grains to 10mm		20,056	20	24	73	310					
21	22							10					
22	23	red-brown soil; qtz to 20mm						8					
23	24							8		20,244			
24	25	brown soil; qtz to 20mm		20,057	24	28	10						
25	26			20,074	DUPLICATE		8						
26	27	brown soil; qtz to 5mm											
27	28												
28	29	brown soil; trace qtz		20,058	28	32	9						
29	30												
30	31	red (russet) soil											
31	32												
32	33	" " "		20,059	32	36	11						
33	34												
34	35	light brown/tan clay soil											
35	36												
36	37	as above w qtz (sil grains) to 10mm		20,060	36	40	15						
37	38			20,075			18						
38	39	clay w qtz (sil grains) to 10mm lots											
39	40												
40	41	as above to 20-30mm lots		20,061	40	44	30						
41	42												
42	43	clay with mica											
43	44	NO SAMPLE RECOVERED											

348020

PERCUSSION

DRILL HOLE LOG

MACMIN N.L.

HOLE NO
PAGE NO.

EN P3
THREE

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS					
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn	
44	45	shale w qtz to 30mm (full sample not recovered)	COMPOSITE OXIDATION ↑ const	20,062	44	48	46						
45	46												
46	47	brown clay with mica											
47	48												
48	49	as above w qtz (sil. grano) to 10mm; + Fe. const			20,063	48	52	26					
49	50												
50	51	oxidized grey grano											
51	52												
52	53	grey grano		20,064	52	56	37						
53	54												
54	55	dark grey grano w 5% qtz to 10mm											
55	56												
56	57	grey grano w tr. py		20,065	56	60	40			ONE METRE ASSAYS			
57	58									Au 666			
58	59	grey grano								20,245			
59	60												
60	61	bleached grano w py; qtz to 15mm, 30%		20,066	60	64	400	2250			20,115	P	
61	62			20,076			18	1630					
62	63	grey grano; 1% qtz						100					
63	64							79					
64	65	grey grano; w pyrite		20,067	64	68	11	18					
65	66							26					
66	67	grey grano; tr py						24					
67	68							23					

348027

PERCUSSION DRILL HOLE LOG

MACMIN N.L.

HOLE NO
 PAGE NO.

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING			ASSAYS						
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn	
68	69	grey grano ; tr. py		20,068	68	72	50	20					
69	70							43					
70	71	bleached green - grey grano						34					
71	72							110					
72	73	" " " "		20,069	72	76	240	330					
73	74							21					
74	75	grey grano ; tr py						16					
75	76							13		20,260			
76	77	bleached (altered) grano ; 2-3% py		20,070	76	80	9						
77	78			20,077	DUPLICATE		25						
78	79	grey grano ; 1% qtz to 10um											
79	80												
80	81	grey grano ; 1% qtz selvages ; tr py on fractures		20,071	80	84	8						
81	82												
82	83	grey grano											
83	84												
84	85	grey grano ; qtz selvages to 5um ; tr py		20,072	84	88	16						
85	86												
86	87	grey grano ; with sil selvages + py (po?)											
87	88	grey grano ; tr py											
88	89			20,073	88	92	26						
89	90	grey-green grano ; qtz selvages to 10um											
90	91												
91	92	grey grano ; tr py (po?)											

348028

PROJECT: WISLE HOLE NO: ENPL4 DRILL TYPE: UDR 650
 PROSPECT: ENTERPRISE DATE COMMENCED: 2/04/96 DRILLER: TONY CHERRY
 COLLAR CO-ORDS: S, 441,025mN; 326,100mE DATE COMPLETED: 3/04/96 LOGGED BY: D.M.P. JUNCAN
 COLLAR RL: 140m TOTAL DEPTH (M): 100m DATE: 3/04/96
 AZIMUTH: 270GRD/257MAG BASE OF COMPLETE OXIDATION: 50m LABORATORY USED: AMDEL
 DIP: -60° WATER TABLE: 55m
 * 25m N of sample 11010 (line 1)

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING			ASSAYS						
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn	
0	1	SOIL ± OXIDISED IN SITU BEDROCK		20,078	0	4	11						
1	2	brown soil											
2	3												
3	4	light tan soil											
4	5			20,079	4	8	14						
5	6	brick red soil											
6	7												
7	8	light tan soil; qtz fragments											
8	9			20,080	8	12	18						
9	10	tan soil; qtz to 15mm											
10	11												
11	12	red-tan soil; qtz to 20mm											
12	13			20,081	12	16	19						
13	14	tan soil; qtz grit											
14	15												
15	16	red-tan soil											
16	17			20,082	16	20	20						
17	18	brown soil; qtz fragment (to quarter size)											
18	19												
19	20	red soil (v. clay)											

348030

PERCUSSION

DRILL HOLE LOG

MACMIN N.L.

HOLE NO
PAGE NO.

ENP4
Two

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS					
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn	
20	21	█		20,083	20	24	21						
21	22	dark brown soil; qtz fragments		20,103	DUPLICATE		22						
22	23												
23	24	light brown soil											
24	25			20,084	24	28	30						
25	26	" " " ; qtz trace to 5mm											
26	27												
27	28	light brown-tan soil											
28	29			20,085	28	32	28						
29	30	brown clay soil w mica											
30	31												
31	32	dark brown soil w green frags.											
32	33			20,086	32	36	49						
33	34	light brown soil; rare qtz to 15mm											
34	35												
35	36	light brown soil; qtz & mica											
36	37			20,087	36	40	19						
37	38	" " " ; qtz quartz											
38	39												
39	40	" " " ; rare qtz & mica											
40	41			20,088	40	44	28						
41	42	" " " ; qtz to 15mm		20,104	DUPLICATE		22						
42	43												
43	44	" " " qtz to 5mm											

348031

PERCUSSION

DRILL HOLE LOG

MACMIN N.L.

HOLE NO

014

PAGE NO.

THREE

FROM (m)	TO (m)	GEOLOGICAL DESCRIPTION	GRAPHIC LOG	SAMPLING				ASSAYS						
				Sample No.	From	To	Rec	Au	Ag	Cu	Pb	Zn		
44	45			20,089	44	48	31							
45	46	brown sand; w qtz to 10mm + oxid grans												
46	47													
47	48	brown grey sand (+ oxid grans)												
48	49			20,090	48	52	19							
49	50	grey sand (+ oxid grans)												
50	51													
51	52	grey sand												
52	53			20,091	52	56	21							
53	54	grey sand												
54	55													
55	56	grey grans												
56	57			20,092	56	60	20							
57	58	brown oxid. grans												
58	59													
59	60	dark sil. grans; trace py												
60	61			20,093	60	64	24							
61	62	grey sil. grans; qtz to 10mm; trace py		20,105	DUPLICATE		19							
62	63													
63	64	brown oxid + fresh grans												
64	65			20,094	64	68	28							
65	66	" " " "												
66	67													
67	68	brown oxid. grans												

COMPLETE
OXIDATION

348032

MACMIN N.L.

ENTERPRISE

C BARED

AT PROPOSED SITE B ie AMG 5441063m, 525938mE

DRILLED -60° TO 090° AMG.

Hole No. L51

Sheet 1 of 2

RESOLUTE RESOURCES LIMITED

From	To	Recovery (m)	Description	Sample No.	ASSAY				Lith.	Hard.	Mineralisation	Alteration	Wth. (BofOx) %g
					As	As (pt 1)	As (pt 2)	Ave.					
0.00	1.40	—	no core										
1.40	2.80	0.8	orange clay after weathered granite. last 50mm of core consists of rubbley bucky quartz	1.4-2.8	0.22	0.05	0.10	135	granite	Interv. (5.5m)	2.8-8.3	5g	
2.80	8.30	0.8	rubbley white (weakly limonite) bucky quartz with trace arsenopyrite and one cube of weathered pyrite - includes 0.2 m of weathered granite above 3.90m	2 pars of this quartz contained 1 vly gold + mn arsenopyrite.					qtz/ granite	to arsenopy		"	
				2.8-8.3	0.87			36			(core recovery 2.8-8.3m (0.8m) ie 15%)		
8.30	12.40	—	no core										
12.40	13.50	0.25	0.05m of rubbley white quartz (as above) followed by 0.2 m of weathered granite.	12.4-13.5	0.04			27	qtz/ granite			"	
13.50	15.00	0.4	weathered granite - fsp feldspar - biotite - quartz - adamellite(?)	13.5-16.7	<0.02			23	granite			"	
15.00	16.70	0.8	"						granite			"	
16.70	20.80	0.6	"	16.7-20.8	<0.02			29	granite			"	
20.80	22.60	1.45	"	20.8-26.6	<0.02			29	granite			"	
22.60	24.00	—	no core.	22.6-26.85	<0.02			57	granite			"	
24.00	26.10	0.2	weathered granite (adamellite?) becoming clayey towards 26.10						granite			"	
26.10	26.85	0.35	0.25 m weathered granite followed by 0.10 rubbley buck						granite/ qtz			"	

348033

NO CORE

From	To	Recovery (m) Feet	Description	Sample No.	ASSAY			As Aver.	Lith.	Hard.	Mineralisation	Alteration	Wth. (BofOx) %g
					Au	Au(tot)	Au(12)						
26.85	28.35	-	↑ quartz as above. no core					qtz cavity		Stages			
29.35	32.30	-	no core					cavity		26.85 - 32.30 (5.45m)			
32.30	33.80	0.15	0.05 m rubbly quartz followed by 0.10 m weathered granite	32.6-36.8	<0.02		13	qtz/granite				sy	
33.80	35.30	0.6	weathered granite (adam.)					granite		Core recovery 8.58 0 - 43.5 m (9.58m) ie 21.6% 19.7%		"	
35.30	36.80	0.1	BD weathered granite (adam.) followed by 0.01 m quartz rubble (as above)					granite/ quartz				"	
36.80	37.80	0.63	0.6m weathered granite (adam.) followed by 0.03 m wood.	36.8-37.8	<0.02		92	granite				"	
37.80	39.60	-	open slope - no core					open slope		Stages	2.05		
39.60	41.65	0.5	0.25 m wood followed by 0.25 m weathered granite (adam.)	39.6-41.65	0.03		120	granite		37.80 - 39.85 (1.80m)		"	
41.65	43.00	0.45	0.45 m of weathered (dry) granite (adam.)	41.65-43.0	0.03		420	granite				"	
43.00	43.30	0.30	0.15 m of weathered (dry) granite (adam.) followed by 0.15 only weakly weathered granite with pyrite and arsenopyrite on fracture surfaces	43.0-43.15	0.03		155	granite				sy/ky	
43.30	43.50	0.20	0.10 m of weathered granite (adam.) followed by 0.10 very weakly weathered granite (adam.) with pyrite > arsenopyrite on fracture surfaces.	43.3-43.4	<0.02		10	granite		0.5% py + asp on frac surfaces		"	
				43.4-43.5	0.03		120	oxidized				"	

3481135

MACMIN N.L. 348037

COLLARED 12 m due west of LSI then 10 m due north
 ie at AMG 5441073m N, 50915 m E.

DRILLED -60°
 to A.M.G. 090°.

RESOLUTE RESOURCES LIMITED ENTERPRISES

Hole No. LS2

Sheet 1 of 8

From	To	Leaving Foot	Description	Sample No.	ASSAY Au	Agpt(1)	Agpt(2)	Ag Ave.	Lith.	Hard.	Mineralisation	Alteration	Wth. (BofOx) %g
0.00	0.60		no core (precollar)										
0.60	0.85		bucky white quartz with only very minor ferruginous fractures.	0.60-0.85	21.7	17.8	20.6	43	qtz		Core recovery 0.6 - 3.2m (2.05m)	sy	
0.85	1.40		strongly weathered granite (adamellite) now orange brown clay	0.85-1.4	0.53			680	granite		ie 80%	sy	
1.40	1.60		bucky white quartz as for 0.60-0.85	1.4-1.6	23.8	22.8	24.8	71	qtz		Interval 2.8 - 3.5 (5.5)	sy	
1.60	2.50		strongly weathered granite now orange brown clay. trace quartz rubble around 1.8m.	1.6-2.5	0.54			175	granite/ te qtz		at 0.87 gte in Interval 0.60 - 2.50m (1.9m) at 5.65 t Au	sy	
2.50	3.30		purple weathered (strongly) granite	2.5-3.3	0.39			16	granite			sy	
3.30	4.00		slightly smoky (grey, opaque) quartz rubble	3.3-4.0	0.09			22	qtz			sy	
4.00	6.70		strongly purple weathered granite with minor gritty quartz from 4.00-4.10	4.0-6.7	<0.02			59	granite			sy	
6.70	6.80		smoky quartz rubble	6.7-6.8	0.09			39	qtz			sy	
6.80	7.50		as for 4.00 - 6.70	6.8-7.5	<0.02			54	granite				
7.50	8.20		mod- strongly weathered granite with patches of 30% smoky quartz rubble especially 7.50 - 7.80m	7.5-9.25	0.10			120	granite/ qtz.			my	
8.20	9.00		granite (now orange brown clay) with 30% smoky quartz rubble						granite/ qtz			sy	
9.00	9.25		strongly weathered granite						granite			sy	
9.25	9.30		smoky quartz rubble	9.25-9.3	0.13	0.10		19	qtz.			sy	
9.30	12.50		mod- strongly weathered granite with	9.3-12.5	0.14	0.10		300	granite/qtz.			my	

From	To	Fol.	Description	Sample No.	ASSAY			A ₁ Ave.	Lith.	Hard.	Mineralisation	Alteration	With (BofOx) %g
					A _u	A _u (ppt)	A _u (ppt)						
			~ 5% qtz rubble.										
12.50	12.60		smoky grey quartz rubble	12.5-12.6	0.87	2.54	1.71	50	qtz		Core recovery		
12.60	13.90		moderately weathered granite with minor quartz rubble (~ 3%)	12.6-13.9	1.03			91	granite/ qtz		12.50-14.35 (0.95m) ie 51%	ny	
13.90	14.05		milky white quartz rubble	13.9-14.05	6.17	6.92		42	qtz		Interval 12.5-14.05	ny	
14.05	16.65		strongly weathered granite, now orange brown clay	14.05-16.65	0.04			115	granite		(1.55m) at 1.52g/t Au	sy	
16.65	18.60		strongly weathered granite.	16.65-18.6	<0.02			77	granite			sy	
18.60	21.75		distinctive sandy clay - after weathered granite?	18.6-21.75	0.05			81	granite?			sy	
21.75	22.10		strongly weathered granite	21.75-22.1	0.02			55	granite		Core recovery	sy	
22.10	29.00		distinctive sandy clay - after weathered granite - Also in calico bags marked 25.6-28.5 and 28.5-29.0	22.1-25.6	0.02			55			0-29m (16.5m)		
				25.6-28.5	<0.02			96			ie 57%		
				25.5-29.0	<0.02			72					
			BELOW 29.00 the core is much less weathered than above 29.00.										
29.00	61.00		↑ From 29.00m to EOH the rock is the same granitoid throughout (and apparently also for the first 29.0m). The rock is coarse grained with 30% quartz, 65% plagioclase, 5% biotite and minor hornblende.										

21.75-29.00
 ↑
 granite (adamellite) with variable quartz veining
 ↓

From	To	Fol.	Description	Sample No.	ASSAY			Af Ave.	Lith.	Hard.	Mineralisation	Alteration	With. (BofOx) %g
					An	An(%)	An(%)						
			Coarsest grains are generally $\approx 5\text{mm}$ The rest of the log refers to						granite (adamellite) with variable quartz veining				
Core (loss)	29.00 to 29.15		veining, sulphides etc in this granitoid (adamellite) This granite is non-magnetic to 53.30m, ^{vug} weakly magnetic below 53.30m.										
29.25	29.30		smoky quartz rubble - no sulphides	29.25-29.29	60.02			17					
29.30	29.40		5mm thick moderately ferruginous quartz vein running down centre of core with $\approx 3\%$ pyrite in clots in the silicified selvage to the vein.								3% pyrite in clots.		
29.40	29.75		two ferruginous fractures at 30° ca. with $\approx 1\%$ pyrite in clots in the granite.								1% pyrite		
29.75	30.05		5mm quartz vein parallel to the core crossed by 3mm quartz vein at 30° ca at 29.70 metres. Both veins are crack seal. At 29.60 is a 3mm quartz vein sub-parallel to the core axis ie <u> </u>	29.75-30.67	0.12			4					
30.05	30.20		3mm quartz vein at 25° ca.										
30.20	30.40		fractures at 15° ca with pyrite coating								pyrite on fracture		
30.40	30.55		10mm quartz vein at 15° ca (crack seal) cutting 10mm quartz vein ^{also} at 15° ca.										
30.60	30.63		5mm quartz vein at 30° ca with clots of galena - vein is crack seal.								galena in vein.		

343040

MACMIN N.L.

RESOLUTE RESOURCES LIMITED

Hole No. L52

Sheet 4 of 8

From	To	Fol.	Description	Sample No.	ASSAY			A ₁ Aver.	Lith.	Hard.	Mineralisation	Alteration	Wth.	
					Au	Ag (ppm)	As (ppm)						(BotOx)	%g
30.67	31.55		Two 3-5 mm quartz veins at 15° ca. veins contain very minor pyrite and galena. Veining in part is alteration of granite with a biotite also in the veining. At 31.40m a 5mm quartz vein perpendicular to the core axis cuts the shallow to core axis vein.	30.67-31.55	<0.02	<0.02		3	granite (adamellite) with variable quartz veining ↓		minor pyrite and galena.			
31.55	31.85		25 mm white quartz vein at 15° ca with minor galena.	31.55-31.85	<0.02			3			minor galena.			
31.85	34.85		occasional quartz veins at low angles to the core axis with very minor pyrite and galena. Veins appear to initially be a diffuse alteration with a later indistinct crack seal centre. At 32.15 is one such vein. From 32.55m to 33.35m is a 1mm smoky quartz vein running down the centre of the core with occasional clots of arsenopyrite or pyrite. From 33.55m to 33.70m a 5mm quartz vein with minor arsenopyrite and galena both towards and in the selvages to the vein.	31.85-34.85	<0.02			4			minor pyrite and galena.			
											occasional clots pyrite.			
											minor galena.			

RESOLUTE RESOURCES LIMITED

From	To	Fol.	Description	Sample No.	ASSAY Au (ppm)	Au (ppm)	Au Ave.	Lith.	Hard.	Mineralisation	Alteration	Wh. (BofOx)	%g
			meanders at $\approx 15^\circ$ ca. From 34.00m to 34.10m is a diffuse zone of chlorite alteration.					granite (adamellite) with variable quartz veining					
34.85	35.25		weakly weathered granite in broken core with weakly oxidised quartz probably ≈ 15 mm thick and sub perpendicular to the core axis.	34.85-35.25	0.06		380						
35.25	35.60		weakly oxidised 25mm quartz vein at 25° ca with occasional clots of galena - similar to preceding quartz vein.	35.25-35.60	40.02		10			occasional galena			
35.60	36.80		3-5mm quartz veins at 36.25m and 36.55m. At 36.75m is a vein at 5° ca with clots of pyrite and galena.	35.60-36.80	40.02		6			minor clots of pyrite and galena			
36.80	39.40		no veining or sulphides - granite										
39.40	39.50		weakly weathered granite with 10mm quartz vein at 45° ca										
39.50	40.00		10mm quartz vein at 15° ca with minor galena at 39.80m.	39.60-40.00	<0.02		4			minor galena.			
40.00	40.10		weakly weathered granite with weathered 10mm thick pyrite, quartz pyrite vein at 10° ca which becomes \downarrow							pyrite			
40.10	40.50		10mm quartz vein at 10° ca with no sulphides. A 3mm vein with pyrite							pyrite			

343042

MACMIN N.C.

RESOLUTE RESOURCES LIMITED

Hole No. 652

Sheet 6 of 8

From	To	Fcl.	Description	Sample No.	ASSAY Au (PPL)	ASSAY Au (PPL)	ASSAY As (PPL)	Lith.	Hard.	Mineralisation	Alteration	Wth. (BofOx) %g	
			parallels this in part					granite (adamellite) with variable quartz veining ↓					
40.50	40.95		granite - no veining										
40.95	41.30		10mm thick quartz vein at 5° ca contains galena.								minor galena.		
41.30	42.00		granite - no veining.										
42.00	42.10		8mm quartz vein at 15° ca with galena. From 41.85m to 42.10m is a 1mm smoky quartz vein parallel to the core axis.								minor galena		
42.10	44.80		At 43.20m - essentially only granite except for: At 43.20m a fracture surface is pyrite coated. At 43.30m is a clot of pyrite in a small patch of silicification. At 43.35 is a 5mm quartz vein at 40° ca.	43.60 - 48.60	0.03		38				pyrite coated fracture		
44.80	49.90		This zone contains what appears to be a single main ^{5mm to 25mm thick} quartz vein running down the centre parallel to the core. From 44.80 to 47.80 the core generally contains the vein. From 47.80 to 48.40 the core is broken but there is no obvious veining. From 48.40 to 48.60m the vein is 15mm thick, weakly weathered and	48.60 - 49.90	0.02		13	qtz					

From	To	Fol.	Description	Sample No.	ASSAY Au (ppt)	ASSAY Au (cptz)	As Ave.	Lith.	Hard.	Mineralisation	Alteration	Wth. (BofOx) %
			contains galena galena. From 48.60m to 49.10m There is no quartz in the core. From 49.10m to 49.90m the core is \approx 40% quartz with minor galena and pyrite. The quartz ^{vein} is parallel to the core axis and 25mm thick.					granite (odanallite) with variable quartz veining ↓		galena		
49.90	51.80		generally just granite. At 50.45m is a 10mm thick quartz vein at 70° ca.	49.90 -51.00 51.00 -51.80	<0.02 0.03		<2 2			PETROG SAMPLE 20,121 at 50.2m		
51.80	53.30		milky white quartz vein \approx 40mm thick sub parallel to the core axis with ^{minor} galena and minor pyrite at 5° ca.	51.80 -53.30	0.03		34	qtz		minor galena and pyrite.		
53.30	61.00		granite contains a distinct banding in parts at 25° ca defined by amount of biotite.	53.30 -58.30 58.30 -59.20 59.20 -60.00	<0.02 0.18 0.02		6 41 26	grans		with sulphides Core recovery 0-61m (45-75m) is 75°		
53.60	53.70		The granite also becomes very weakly magnetic below 53.30m. At 53.6m is a 3mm thick smoky quartz vein at 15° ca. At 57.70m is a 10mm quartz vein at 30° ca. From 58.80m to 58.82m the core is broken but contains a 10mm milky quartz vein at 70° ca.	60.00 -61.00	0.03		10			SAMPLE (PETROG) 20,120 - 58.30m		

From	To	Fol.	Description	Sample No.	ASSAY Au (ppt)	ASSAY Ag (ppt)	ASSAY Avg.	Lith.	Hard.	Mineralisation	Alteration	Wth. (BotOx) %g	
0.00	1.50		no core - precollar.										
1.50	18.0		strongly weathered granite - now orange brown clay.	1.5-4.5	0.20	0.20	88	granite				sy	
				4.5-5.8	0.14		105						
				5.8-7.3	0.12		115						
				7.3-8.8	0.21		25						
				8.8-10.1	0.12	0.13	17						
				10.1-12.3	0.18		19						
				12.3-13.8	0.14		49						
				13.8-15.3	0.15		26						
				15.3-16.5	0.41		23						
18.0	19.5		strongly weathered granite ^(clay) but much core loss - cavities reported by driller.	16.5-19.5	0.22		20	granite/cavity				sy	
19.5	22.0		no core - open cavity					cavity					
22.0	22.3		timber from old workings										
22.3	27.3		no core - open cavity					cavity					
27.0	27.3		timber from old workings										
27.3	28.95		no core - open cavity					cavity					
28.95	32.60		moderately weathered granite with ferruginous fractures and occasional ferruginous vugs.	28.95-30.5	0.24		58	granite with quartz veining				ny	
				30.5-31.5	0.21		46						
				31.5-32.6	0.25		640						
32.60	37.70		granite (adamellite as in described in LS2) with trace pyrite on rare fracture surfaces. At 36-70m is a 10mm thick quartz	32.6-36.6	0.02		29	granite with quartz veining				ny	
				36.6-37.7	0.02		12						

348045

Core recovery
0-30.5m (6' in)
i.e. ~~25%~~ 19.4%

Cavity/stalact
18.0-28.95 (10.05)

granite
with
quartz
veining

32.6m base of oxidation

trace pyrite on fracture surfaces.

348046

MACMIN N.L.

RESOLUTE RESOURCES LIMITED

Hole No. LS3

Sheet 2 of 3

From	To	Fol.	Description	Sample No.	ASSAY			Lith.	Hard.	Mineralisation	Alteration	Wth. (BofOx) %g	
					As	Au (ppm)	Au (ppm)						
			vein at 70°ca with trace pyrite.							trace pyrite.			
			At 37.20m is an oxidised vein at 70°ca.										
37.70	38.10		40mm quartz vein (silicification) at 20°ca with trace pyrite and galena.	37.7-38.1	<0.02		<2	quartz		trace pyrite and galena.			
38.10	48.20		generally just granite with some sericite alteration of feldspars.	38.1-39.0	<0.02		7	granite (adamellite) with variable quartz veining					
			At 40.05m a 5mm vuggy quartz vein at 50°ca contains minor galena and pyrite. Below 46.80m is occasional ferruginous fractures.	39.0-43.0	<0.02		4						
				43.0-48.0	<0.02		9			minor galena and pyrite.			
48.2	50.8		granite with ferruginous fractures in broken core. Some ferruginous quartz veining at 50.20m and 50.70m.	48.0-52.0	0.02		96			Core recovery 0-61.3 (34.65m) i.e. 56.5%		very	
50.8	61.3		Below 50.8m hornblende becomes a bit slightly more prominent in the granite. Quartz veins as noted: 10mm quartz at 70°ca at 53.40m; 5mm quartz-trace galena at 40°ca at 55.50m; 10mm quartz-trace galena at 80°ca at 58.20m;	52.0-56.0	<0.02		3						
				56.0-60.0	0.03		7			PETROG SAMPLE			
				60.0-61.3	0.10		5			20,122 at 58.3m			
										trace galena			
										trace galena.			

348048

I led 10 metres at 022°GN from Proposed Site G.

MACMIN N.L.

GOLD CREST

Hole No. L54

DRILLED -60° TO ~~67°~~

Sheet 1 of 2

RESOLUTE RESOURCES LIMITED

From	To	Fol.	Description	Sample No.	ASSAY Au	Ag (ppt)	As (ppt)	Ar Ave.	Lith.	Hard.	Mineralisation	Alteration	Wth. (BotOx) %g
0.00	1.00		no core - pre collar.										
1.00	4.40	1	strongly weathered - orange brown clay with rounded quartz rubble at x 2-2m (equivalent to 20mm thick vein)	1.0 - 4.4	0.47			420	granite/ quartz				sy
4.40	4.70		moderately weathered granite with no veining or sulphides.	4.4 - 4.7	1.74			39	granite		Intenal	1-2.4m (23m) at 0.6 g/t Au	my
4.70	6.20		strongly weathered - orange brown clay - much core loss.	4.7 - 6.2	3.63	2.71	2.92	38	granite			including	sy
6.20	6.40		moderately weathered granite with no veining or sulphides.	6.2 - 6.4	2.19	2.44	2.11	14	granite			4.4 - 6.4 (2m) at 2.8 g/t Au	my
6.40	8.00		no core - core loss						-				-
8.00	8.02	2	rubble of moderately weathered granite.	8.00 - 9.31	0.86	0.84	1.19	22	granite			Core recovery	my
8.02	9.30	3	strongly weathered granite - now clay						granite			4.4 - 6.4 (20.75m) i.e. 38%	sy
9.30	9.31		rounded rubble of moderately smoky quartz						quartz				
9.31	11.40		strongly weathered finer grained granite - but similar composition to coarse granites (adamellites)	9.31 - 11.40	0.58			88	finer grained granite			Core recovery 5.30 - 11.40m (2.45m)	sy
11.40	11.50		moderately weathered granite finer grained granite as for 9.31 into 11.40m	11.4 - 11.5	0.14			8	finer grained granite			c.a. 18%	my
11.50	11.51		contact in broken core but	11.5 - 14.1	0.33			5	leucocratic dike				my

From	To	Fol.	Description	Sample No.	ASSAY			Lith.	Hard.	Mineralisation	Alteration	Wth. (BofOx) %g
					As	As (ppm)	As (ppm)					
			includes a fragment of pale creamy (leucocratic) with apparently 40% quartz, 60% plagioclase and only very minor biotite - presumably a dike									
11.51	14.1	16.50	coarser grained granite again with minor fine ferruginous fractures after sulphides generally at low angles to the core axis				granite					my
14.1	14.2	16.50	moderately/strongly weathered granite.	14.1-15.35	0.35		granite					my
14.2	18.1		granite as for 11.51m to 14.1m	15.35-18.1	0.33		granite					my
18.1	19.35		strongly weathered granite now clay/slop with much core loss.	18.1-19.35	0.36		granite					sy
19.35	24.00		much core loss but moderately weathered granite with numerous fractures after sulphidic veins at $\approx 40^\circ$ ca.	19.35-24.0	0.23		granite					my
24.00	29.50		weakly weathered granite with 30% quartz, 60% plagioclase, 5% biotite and trace hornblende - overlying granites would have this composition also.	24.0-29.5	0.02		granite		500 GF	1400E		my

APPENDIX

Diamond drill hole recoveries

LSD 1

from- to (m), interval, recovered

0.00- 1.40	1.40	precollar
1.40- 2.80	1.40	0.80
2.80- 8.30	5.50	0.80
8.30- 12.40	4.10	-
12.40- 13.50	1.10	0.25
13.50- 15.00	1.50	0.40
15.00- 16.70	1.70	0.80
16.70- 20.80	4.10	0.60
20.80- 22.60	1.80	1.45
22.60- 24.00	1.40	-
24.00- 26.10	2.10	0.20
26.10- 26.85	0.75	0.35
26.85- 28.35	1.50	stope
28.35- 32.30	3.95	stope
32.30- 33.80	1.50	0.15
33.80- 35.30	1.50	0.60
35.30- 36.80	1.50	0.10
36.80- 37.80	1.00	0.63
37.80- 39.60	1.80	stope
39.60- 41.65	2.05	0.50
41.65- 43.00	1.35	0.45
43.00- 43.30	0.30	0.30
43.30- 43.50	0.20	0.20

total 43.50m 8.58m

recovery = 19.7%, all oxidised

LSD 2

0.00- 0.60	0.60	precollar
0.60- 1.80	1.20	1.20
1.80- 3.20	1.40	0.85
3.20- 4.00	0.80	0.25
4.00- 5.10	1.10	0.50
5.10- 6.80	1.70	1.10
6.80- 7.50	0.70	0.70
7.50- 8.20	0.70	0.50
8.20- 9.25	1.05	0.70
9.25- 10.00	0.75	0.30
10.00- 11.30	1.30	0.10

11.30- 12.50	1.20	0.35
12.50- 13.30	0.80	0.15
13.30- 14.35	1.05	0.80
14.35- 15.85	1.50	1.30
15.85- 16.90	1.05	0.50
16.90- 18.60	1.70	1.00
18.60- 20.30	1.70	0.80
20.30- 21.75	1.45	0.60
21.75- 22.10	0.35	0.30
22.10- 25.60	3.50	3.50
25.60- 29.00	3.40	1.00
29.00- 30.45	2.45	1.20
30.45- 31.85	1.40	1.35
31.85- 33.45	1.60	1.50
33.45- 34.85	1.40	1.40
34.85- 37.40	2.55	1.30
37.40- 40.40	3.00	2.90
40.40- 43.40	3.00	3.00
43.40- 46.15	2.75	2.65
46.15- 48.80	2.65	2.50
48.80- 50.20	1.40	1.40
50.20- 52.30	2.10	2.10
52.30- 56.40	4.10	3.70
56.40- 57.30	0.90	0.90
57.30- 59.00	1.70	1.45
59.00- 61.00	2.00	1.90

total 61.00m 45.75m

recovery = 75.0%, 56.9% in oxidised

LSD 3

0.00- 1.50	1.50	precollar
1.50- 2.50	1.00	1.00
2.50- 3.50	1.00	0.90
3.50- 4.50	1.00	0.75
4.50- 15.30	10.80	(11 bags)
15.30- 16.50	1.20	0.70
16.50- 18.00	1.50	1.05
18.00- 28.95	10.95	stope
28.95- 30.50	1.55	0.70
30.50- 31.50	1.00	1.00
31.50- 33.30	1.80	1.70
33.30- 35.20	1.90	1.85
35.20- 38.30	3.10	2.85
38.30- 41.25	2.95	2.90
41.25- 43.70	2.45	2.50

43.70- 46.65	2.95	2.90
46.65- 49.15	2.50	2.35
49.15- 50.70	1.55	1.30
50.70- 52.30	1.60	1.60
52.30- 55.25	2.95	2.95
55.25- 58.30	3.05	2.95
58.30- 61.30	3.00	2.70

total 61.30m 34.65m

recovery = 56.5%, 19.4% in oxidised

LSD 4

0.00- 1.00	1.00	precollar
1.00- 1.80	0.80	0.80
1.80- 4.60	2.80	1.40
4.60- 6.40	1.80	0.55
6.40- 8.00	1.60	-
8.00- 9.30	1.30	0.25
9.30- 11.40	2.10	0.40
11.40- 13.00	1.60	0.60
13.00- 14.10	1.10	0.10
14.10- 15.35	1.25	0.20
15.35- 16.50	1.15	0.30
16.50- 18.00	1.50	0.05
18.00- 19.35	1.35	0.15
19.35- 24.00	4.65	0.20
24.00- 29.50	5.50	0.30

total 29.50m 5.30m

recovery = 18.0%, all oxidised

MACMIN N.L. - SAMPLE INFORMATION

Page 1

COMPOSITES

PROJECT NAME	PROSPECT NAME	SAMPLE TYPE	SAMPLED BY	SAMPLE DATE		
	LISLE	RC DRILL	S. DUNCAN	3 10 196		
SAMPLE NO.	HOLE ID.	FROM	TO	NORTHING	EASTING	COMMENTS
20,001	ENP1	0	4m	5,441,100	326,010	* alternatively
2	"	4	8	"	"	8m grid W of sample
3	"	8	12	"	"	11064 (line 2)
4	"	12	16	"	"	
5	"	16	20	"	"	
6	"	20	24	"	"	
7	"	24	28	"	"	
8	"	28	32	"	"	
9	"	32	36	"	"	
20,010	"	36	40	"	"	
11	"	40	44	"	"	
12	"	44	48	"	"	
13	"	48	52	"	"	
14	"	52	56	"	"	2080
15	"	56	60	"	"	80
16	"	60	64	"	"	EOH
17	"	12	16	"	"	DUPLICATES
18	"	28	32	"	"	"
19	"	52	56	"	"	2630
20,020	ENP2	0	4	6,441,000	326,015	80 *
21	"	4	8	"	"	68
22	"	8	12	"	"	270
23	"	12	16	"	"	31
24	"	16	20	"	"	
25	"	20	24	"	"	* alternatively
26	"	24	28	"	"	2m W; 2m N of
27	"	28	32	"	"	sample 11014 (line 1)
28	"	32	36	"	"	
29	"	36	40	"	"	
20,030	"	40	44	"	"	
31	"	44	48	"	"	
32	"	48	52	"	"	
33	"	52	56	"	"	
34	"	56	60	"	"	
35	"	60	64	"	"	
36	"	64	68	"	"	
37	"	68	72	"	"	
38	"	72	76	"	"	

MACMIN N.L. - SAMPLE INFORMATION
COMPOSITES

Page 2

PROJECT NAME	PROSPECT NAME	SAMPLE TYPE	SAMPLED BY	SAMPLE DATE		
	LISLE	RC DRILL	S. J. W. C. J. W.	3 / 04 / 96		
SAMPLE NO	HOLE I.D.	FROM	TO	NORTHING	EASTING	4-(166) COMMENTS
20,039	ENP2	76	80m	"	"	
40	"	80	84	"	"	120
41	"	84	88	"	"	
42	"	83	92	"	"	
43	"	92	96	"	"	
44	"	96	100	"	"	130
45	"	100	102	"	"	EOH
46	"	16	20	"	"	DUPLICATES
47	"	36	40	"	"	"
48	"	56	60	"	"	"
49	"	80	84	"	"	69
50	"	96	100	"	"	"
20,051	ENP3	0	4	5,444,000	325,970	* alternatively 2m N.
52	"	4	8	"	"	8m W of sample
53	"	8	12	"	"	11016 (hole 1)
54	"	12	16	"	"	90
55	"	16	20	"	"	90
56	"	20	24	"	"	73
57	"	24	28	"	"	
58	"	28	32	"	"	
59	"	32	36	"	"	
20,060	"	36	40	"	"	
61	"	40	44	"	"	
62	"	44	48	"	"	
63	"	48	52	"	"	
64	"	52	56	"	"	
65	"	56	60	"	"	
66	"	60	64	"	"	400
67	"	64	68	"	"	11
68	"	68	72	"	"	50
69	"	72	76	"	"	240
20,070	"	76	80	"	"	
71	"	80	84	"	"	
72	"	84	88	"	"	
73	"	88	92	"	"	EOH 93m
74	"	24	28	"	"	DUPLICATES
75	"	36	40	"	"	"

MACMIN N.L. - SAMPLE INFORMATION

Page 3

COMPOSITES
SAMPLE SAMPLED

PROJECT NAME

PROSPECT NAME

TYPE

BY

SAMPLE DATE

LISLE

RC DRILL S. DUNCAN

3 / 04 / 96

SAMPLE NO	HOLE I.D.	FROM	TO	NORTHING	EASTING	AN (11th)	COMMENTS
20,076	ENP3	60	64	"	"	18	DUPLICATES
77	"	76	80	"	"		"
78	ENP4	0	4	5,461,025	326,100		* alternatively
79	"	4	8	"	"		27m N of sample
20,080	"	8	12	"	"		11010 (line 1)
81	"	12	16	"	"		
82	"	16	20	"	"		
83	"	20	24	"	"		
84	"	24	28	"	"		
85	"	28	32	"	"		
86	"	32	36	"	"		
87	"	36	40	"	"		
88	"	40	44	"	"		
89	"	44	48	"	"		
20,090	"	48	52	"	"		
91	"	52	56	"	"		
92	"	56	60	"	"		
93	"	60	64	"	"		
94	"	64	68	"	"		
95	"	68	72	"	"		
96	"	72	76	"	"		
97	"	76	80	"	"		56
98	"	80	84	"	"		90
99	"	84	88	"	"		29
20,100	"	88	92	"	"		960
101	"	92	96	"	"		24
102	"	96	100	"	"		210 604
103	"	20	24	"	"		DUPLICATES
104	"	40	44	"	"		"
105	"	60	64	"	"		"
106	"	80	84	"	"		120
107	"	96	100	"	"		150

MACMIN N.L. - SAMPLE INFORMATION

ONE METRE

PROJECT NAME	PROSPECT NAME	SAMPLE TYPE	SAMPLED BY	SAMPLE DATE
	WILE	RC DRILL	S. DUNCAN	3 / 04 / 96

SAMPLE NO	HOLE I.D.	FROM	TO	NORTHING	EASTING	COMMENTS
20, 201	ENP1	52	53	5,441,000	326,010	
202	"	53	54	5,441,100	326,010	
203	"	54	55	"	"	
204	"	55	56	"	"	
205	"	56	57	"	"	
206	"	57	58	"	"	
207	"	58	59	"	"	
208	"	59	60	"	"	
209	ENP2	0	1	5,441,000	326,015	
20, 210	"	1	2	"	"	
211	"	2	3	"	"	
212	"	3	4	"	"	
213	"	4	5	"	"	
214	"	5	6	"	"	
215	"	6	7	"	"	
216	"	7	8	"	"	
217	"	8	9	"	"	
218	"	9	10	"	"	
219	"	10	11	"	"	
20, 220	"	11	12	"	"	
221	"	12	13	"	"	
222	"	13	14	"	"	
223	"	14	15	"	"	
224	"	15	16	"	"	
225	"	80	81	"	"	
226	"	81	82	"	"	
227	"	82	83	"	"	
228	"	83	84	"	"	
229	"	96	97	"	"	
20, 230	"	97	98	"	"	
231	"	98	99	"	"	
232	"	99	100	"	"	

MACMIN N.L. - SAMPLE INFORMATION

Page 5

ONE METRE

PROJECT NAME	PROSPECT NAME	SAMPLE TYPE	SAMPLED BY	SAMPLE DATE		
	WISLE	RC DRILL	S. J. ...	3 / 04 / 196		
SAMPLE NO	HOLE I.D.	FROM	TO	NORTHING	EASTING	COMMENTS
20,233	EN P3	12	13	5,441,000	325,970	
234	"	13	14	"	"	
235	"	14	15	"	"	
236	"	15	16	"	"	
237	"	16	17	"	"	
238	"	17	18	"	"	
239	"	18	19	"	"	
20,240	"	19	20	"	"	
241	"	20	21	"	"	
242	"	21	22	"	"	
243	"	22	23	"	"	
244	"	23	24	"	"	
245	"	60	61	"	"	
246	"	61	62	"	"	
247	"	62	63	"	"	
248	"	63	64	"	"	
249	"	64	65	"	"	
20,250	"	65	66	"	"	
251	"	66	67	"	"	
252	"	67	68	"	"	
253	"	68	69	"	"	
254	"	69	70	"	"	
255	"	70	71	"	"	
256	"	71	72	"	"	
257	"	72	73	"	"	
258	"	73	74	"	"	
259	"	74	75	"	"	
260	"	75	76	"	"	
261	"	92	93	"	"	NOT SAMPLED WITH COMPOSITES

MACMIN N.L. - SAMPLE INFORMATION

ONE METRE

PROJECT NAME	PROSPECT NAME	SAMPLE TYPE	SAMPLED BY	SAMPLE DATE
	WISLE	RC DRILL	S. JUNGAN	3 / 04 / 96

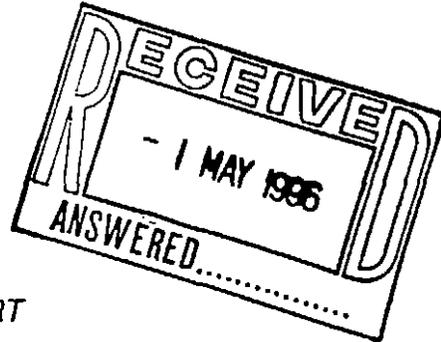
SAMPLE NO	HOLE ID.	FROM	TO	NORTHING	EASTING	COMMENTS
20, 262	ENP4	76	77	5,444,025	326,100	
263	"	77	78	"	"	
264	"	78	79	"	"	
265	"	79	80	"	"	
266	"	80	81	"	"	
267	"	81	82	"	"	
268	"	82	83	"	"	
269	"	83	84	"	"	
20, 270	"	84	85	"	"	
271	"	85	86	"	"	
272	"	86	87	"	"	
273	"	87	88	"	"	
274	"	88	89	"	"	
275	"	89	90	"	"	
276	"	90	91	"	"	
277	"	91	92	"	"	
278	"	92	93	"	"	
279	"	93	94	"	"	
280	"	94	95	"	"	
281	"	95	96	"	"	
282	"	96	97	"	"	
283	"	97	98	"	"	
284	"	98	99	"	"	
285	"	99	100	"	"	

MINERAL CHEMISTRY

Amdel Laboratories Ltd
PO Box 338
Torrensville Plaza SA 5031
ACN 009 076 555

Telephone (08) 416 5300
Facsimile (08) 234 0321

Mr Duncan O'Neill
Macmin NL
PO Box 7996
BUNDALL QLD 4217



FINAL ANALYSIS REPORT

Your Order No: 13002

Our Job Number : 6AD1569

Sample rec'd : 12/04/96
No. of samples : 107
Report comprises a cover sheet and pages 1 to 3

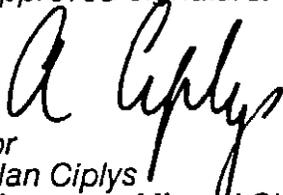
Results reported : 22/04/96

This report relates specifically to the samples tested in so far that
the samples as supplied are truly representative of the sample source.

*drilling 1996**Liste/Enterprise*

Samples 20001 - 20107 (percussion)
ENPI, 2, 3, 4.

Approved Signature:



for
Alan Ciplys
Manager - Mineral Chemistry
AMDEL LABORATORIES ADELAIDE

CC D McP Duncan TASMANIA

Report Codes:
N.A. - Not Available.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample.

Distribution Codes:
CC - Carbon Copy
EM - Electronic Media
MM - Magnetic Media

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Au Dp2
20001	29	31	--
20002	48	51	--
20003	19	--	--
20004	74	63	--
20005	23	--	--
20006	8	--	--
20007	3	--	--
20008	6	--	--
20009	5	--	--
20010	3	--	--
20011	2	--	--
20012	2	--	--
20013	3	--	--
20014	2080	1650	1750
20015	80	83	--
20016	11	--	--
20017	64	72	--
20018	17	--	--
20019	2630	1940	2530
20020	80	66	--
20021	68	110	--
20022	270	260	--
20023	31	--	--
20024	42	47	--
20025	27	--	--
20026	15	--	--
20027	11	--	--
20028	8	--	--
20029	5	--	--
20030	3	--	--
20031	5	--	--
20032	9	--	--
20033	4	--	--
20034	5	--	--
20035	13	--	--
20036	15	--	--
20037	10	--	--
20038	1	--	--
20039	10	--	--
20040	120	130	--
20041	8	19	16
20042	12	--	--
20043	8	--	--
20044	130	69	98
20045	20	--	--
20046	30	37	--
20047	4	--	--
20048	8	--	--
20049	69	86	--
20050	43	46	--
UNITS	ppb	ppb	ppb
DET. LIM	1	1	1
SCHEME	FA3	FA3	FA3

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Au Dp2
20051	18	--	--
20052	7	--	--
20053	29	--	--
20054	90	100	--
20055	90	110	--
20056	73	69	--
20057	10	--	--
20058	9	--	--
20059	11	--	--
20060	15	--	--
20061	30	27	--
20062	46	33	--
20063	26	--	--
20064	37	50	45
20065	40	--	--
20066	400	400	--
20067	11	--	--
20068	50	39	--
20069	240	180	--
20070	9	--	--
20071	8	--	--
20072	16	--	--
20073	26	34	--
20074	8	--	--
20075	18	21	--
20076	18	--	--
20077	25	--	--
20078	11	--	--
20079	14	--	--
20080	18	--	--
20081	19	23	--
20082	20	--	--
20083	21	--	--
20084	30	--	--
20085	28	--	--
20086	49	29	39
20087	19	--	--
20088	28	--	--
20089	31	--	--
20090	19	22	--
20091	21	--	--
20092	20	--	--
20093	24	--	--
20094	28	35	--
20095	36	--	--
20096	10	--	--
20097	56	50	--
20098	90	90	--
20099	29	--	--
20100	960	1290	1510
UNITS	ppb	ppb	ppb
DET. LIM	1	1	1
SCHEME	FA3	FA3	FA3

Final

ANALYTICAL REPORT

SAMPLE	Au	Au	Dp1	Au	Dp2
20101	24		27		--
20102	210		200		--
20103	22		--		--
20104	22		--		--
20105	19		--		--
20106	120		80		--
20107	150		130		--

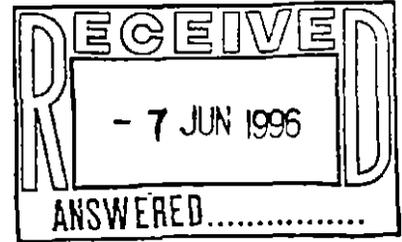
UNITS	ppb	ppb	ppb
DET. LIM	1	1	1
SCHEME	FA3	FA3	FA3

MINERAL CHEMISTRY

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Mr Dennis O'Neill
Macmin NL
PO Box 7996
BUNDALL QLD 4217



FINAL ANALYSIS REPORT

Your Order No: 13005

Our Job Number : 6AD1971

Sample rec'd : 15/05/96
No. of samples : 85
Report comprises a cover sheet and pages 1 to 2

Results reported : 31/05/96

This report relates specifically to the samples tested in so far that the samples as supplied are truly representative of the sample source.

*Drilling 1996
Enterprise / Lisle*

Samples 20201 - 20285

ENP

One metre samples. ENP 1, 2, 3, 4.

Approved Signature:



for
Alan Ciplis
Manager - Mineral Chemistry

Report Codes:
N.A. - Not Available.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample.

Distribution Codes:
CC - Carbon Copy
EM - Electronic Media
MM - Magnetic Media

Final

ANALYTICAL REPORT

SAMPLE	Au	Au Dp1	Au Dp2
20201	180	130	--
20202	160	140	--
20203	44	--	--
20204	6640	6980	5200
20205	180	--	--
20206	130	--	--
20207	120	--	--
20208	13	--	--
20209	87	--	--
20210	73	--	--
20211	62	--	--
20212	100	--	--
20213	56	--	--
20214	70	--	--
20215	120	--	--
20216	17	--	--
20217	18	--	--
20218	880	--	--
20219	41	--	--
20220	40	--	--
20221	24	34	--
20222	11	--	--
20223	43	--	--
20224	40	--	--
20225	7	--	--
20226	2990	1420	1390
20227	3	--	--
20228	1	--	--
20229	19	--	--
20230	210	--	--
20231	130	--	--
20232	30	--	--
20233	3	--	--
20234	79	--	--
20235	490	--	--
20236	76	--	--
20237	64	--	--
20238	340	--	--
20239	150	--	--
20240	64	--	--
20241	310	410	360
20242	10	--	--
20243	8	--	--
20244	8	--	--
20245	2250	2750	4190
20246	1630	490	780
20247	100	340	--
20248	79	--	--
20249	18	--	--
20250	26	--	--
UNITS	ppb	ppb	ppb
DET. LIM	1	1	1
SCHEME	FA3	FA3	FA3
UPPER SCHEME	FA1	FA1	FA1



Job: 6AD1971
O/N: 13005

Final

ANALYTICAL REPORT

348065

SAMPLE	Au	Au Dp1	Au Dp2
20251	24	--	--
20252	23	--	--
20253	20	--	--
20254	43	--	--
20255	34	--	--
20256	110	--	--
20257	330	170	310
20258	21	--	--
20259	16	--	--
20260	13	--	--
20261	18	20	--
20262	24	--	--
20263	370	--	--
20264	74	--	--
20265	80	--	--
20266	56	--	--
20267	110	--	--
20268	130	130	--
20269	100	--	--
20270	70	--	--
20271	28	--	--
20272	90	--	--
20273	25	--	--
20274	83	--	--
20275	150	--	--
20276	80	--	--
20277	920	1030	1240
20278	39	--	--
20279	64	--	--
20280	35	--	--
20281	36	33	--
20282	30	--	--
20283	1450	970	1330
20284	42	--	--
20285	27	--	--

UNITS	ppb	ppb	ppb
DET. LIM	1	1	1
SCHEME	FA3	FA3	FA3
UPPER SCHEME	FA1	FA1	FA1

7d.1.3



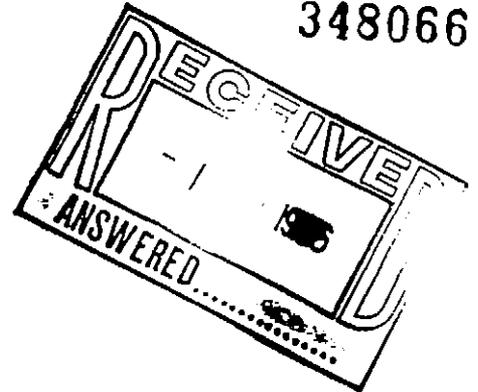
MINERAL CHEMISTRY

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348066

Mr Peter McNeil
Macmin NL
PO Box 7996
BUNDALL QLD 4217



FINAL ANALYSIS REPORT

Your Order No:

Our Job Number : 6AD1168

Sample rec'd : 14/03/96
No. of samples : 30
Report comprises a cover sheet and pages 1 to 1

Results reported : 20/03/96

This report relates specifically to the samples tested in so far that the samples as supplied are truly representative of the sample source.

LISLE
F.A. assays
Checks of AAS
for drill core.

Approved Signature:

Alan Ciplys

for
Alan Ciplys
Manager - Mineral Chemistry
AMDEL LABORATORIES ADELAIDE

Report Codes:
N.A. - Not Available.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample.

Distribution Codes:
CC - Carbon Copy
EM - Electronic Media
MM - Magnetic Media



Job: 6AD0537
O/N:

Final

ANALYTICAL REPORT

348067

SAMPLE	Au	Au Dp1	Au Dp2	As
LS1 1.4-2.8	0.22	0.05	0.10	135
LS1 2.8-8.3	0.87	--	--	36
LS1 4-13.5	0.04	--	--	27
LS1 13.5-16.7	<0.02	--	--	23
LS1 16.7-20.8	<0.02	--	--	29
LS1 20.8-22.6	<0.02	--	--	29
LS1 22.6-26.85	<0.02	--	--	57
LS1 32.8-36.8	<0.02	--	--	13
LS1 36.8-37.8	<0.02	--	--	92
LS1 39.6-41.65	0.03	--	--	120
LS1 41.65-43.0	0.03	--	--	420
LS1 43.0-43.15	0.03	--	--	155
LS1 43.15-43.3	0.02	--	--	260
LS1 43.3-43.4	<0.02	--	--	10
LS1 43.4-43.5	0.03	--	--	120
LS2 0.6-0.85	21.7	17.8	20.6	43
LS2 0.85-1.4	0.53	--	--	680
LS2 1.4-1.6	23.8	22.8	24.8	71
LS2 1.6-2.5	0.54	--	--	175
LS2 2.5-3.3	0.39	--	--	16
LS2 3.3-4.0	0.09	--	--	22
LS2 4.0-6.7	<0.02	--	--	59
LS2 6.7-6.8	0.09	--	--	30
LS2 6.8-7.5	<0.02	--	--	64
LS2 7.5-9.25	0.10	--	--	120
LS2 9.25-9.30	0.13	0.10	--	19
LS2 9.30-12.50	0.14	0.10	--	300
LS2 12.5-12.6	0.87	2.54	1.71	50
LS2 12.6-13.9	1.03	--	--	91
LS2 13.9-14.05	6.17	6.92	--	42
LS2 14.05-16.65	0.04	--	--	115
LS2 16.65-18.6	<0.02	--	--	77
LS2 18.6-31.75	0.05	--	--	81
LS2 21.75-22.1	0.02	--	--	55
LS2 22.1-25.6	0.02	--	--	55
LS2 25.6-28.5	<0.02	--	--	96
LS2 28.5-29.0	<0.02	--	--	72
LS2 29.25-29.75	<0.02	--	--	17
LS2 29.75-30.67	0.12	--	--	4
LS2 30.67-31.55	<0.02	<0.02	--	3
LS2 31.55-31.85	<0.02	--	--	3
LS2 31.85-34.85 COMP	<0.02	--	--	4
LS2 34.85-35.25	0.06	--	--	380
LS2 35.25-35.60	<0.02	--	--	10
LS2 35.60-39.60 COMP	<0.02	--	--	6
LS2 39.60-43.60 COMP	<0.02	--	--	4
LS2 43.60-48.60 COMP	0.03	--	--	38
LS2 48.6-49.9	0.02	--	--	13
LS2 49.9-51.0	<0.02	--	--	<2
LS2 51.0-51.8	0.03	--	--	2
UNITS	ppm	ppm	ppm	ppm
DET. LIM	0.02	0.02	0.02	2
SCHEME	AA8	AA8	AA8	XRF1

ANALYTICAL REPORT

348068

SAMPLE	Au	Au Dp1	Au Dp2	As
LS2 51.8-53.3	0.03	--	--	34
LS2 53.3-58.3 COMP	<0.02	--	--	6
LS2 58.3-59.2	0.18	--	--	41
LS2 59.2-60.0	0.02	--	--	26
LS2 60.0-61.0	0.03	--	--	10
LS3 1.5-4.5 COMP	0.20	0.20	--	88
LS3 4.5-5.8	0.14	--	--	105
LS3 5.8-7.3	0.12	--	--	115
LS3 7.3-8.8	0.21	--	--	25
LS3 8.8-10.1	0.12	0.13	--	17
LS3 10.1-12.3	0.18	--	--	19
LS3 12.3-13.8	0.14	--	--	49
LS3 13.8-15.3	0.15	--	--	26
LS3 15.3-16.5	0.41	--	--	23
LS3 16.5-19.5	0.22	--	--	20
LS3 28.95-30.5	0.24	--	--	58
LS3 30.5-31.5	0.21	--	--	46
LS3 31.5-32.6	0.25	--	--	640
LS3 32.6-36.6 COMP	<0.02	--	--	29
LS3 36.6-37.7	<0.02	--	--	12
LS3 37.7-38.1	<0.02	--	--	<2
LS3 38.1-39.0	<0.02	--	--	7
LS3 39.0-43.0 COMP	<0.02	--	--	4
LS3 43.0-48.0 COMP	<0.02	--	--	9
LS3 48.0-52.0 COMP	0.02	--	--	96
LS3 52.0-56.0 COMP	<0.02	--	--	3
LS3 56.0-60.0 COMP	0.03	--	--	7
LS3 60.0-61.3	0.10	--	--	5
LS4 1.0-4.4	0.47	--	--	420
LS4 4.4-4.7	1.74	--	--	39
LS4 4.7-6.2	3.63	2.71	2.92	38
LS4 6.2-6.4	2.19	2.44	2.11	14
LS4 8.0-9.31	0.86	0.84	1.19	22
LS4 9.31-11.4	0.58	--	--	88
LS4 11.4-11.5	0.14	--	--	8
LS4 11.5-14.1	0.33	--	--	5
LS4 14.1-15.35	0.35	--	--	26
LS4 15.35-18.1	0.33	--	--	<2
LS4 18.1-19.35	0.36	--	--	15
LS4 19.35-24.0	0.23	--	--	860
LS4 24.0-29.5	<0.02	--	--	11

UNITS ppm ppm ppm ppm
 DET.LIM 0.02 0.02 0.02 2
 SCHEME AAS AAS AAS XRF1



Job: 6AD1168
O/N:

Final

ANALYTICAL REPORT

348069

SAMPLE	Au	Au	Dpl
LS2 58.3-59.2	0.13		--
LS2 59.2-60.0	0.02		--
LS2 60.0-61.0	0.02		--
LS3 1.5-4.5 COMP	0.13		--
LS3 4.5-5.8	0.09		--
LS3 5.8-7.3	0.08		--
LS3 7.3-8.8	0.19		--
LS3 8.8-10.1	0.13		--
LS3 10.1-12.3	0.15		--
LS3 12.3-13.8	0.13		--
LS3 13.8-15.3	0.16		--
LS3 15.3-16.5	0.36	0.40	
LS3 16.5-19.5	0.21	0.19	
LS3 28.95-30.5	0.20		--
LS3 30.5-31.5	0.27	0.22	
LS3 31.5-32.6	0.09		--
LS3 60.0-61.3	0.23		--
LS4 1.0-4.4	0.38		--
LS4 4.4-4.7	2.18	2.02	
LS4 4.7-6.2	3.17	3.15	
LS4 6.2-6.4	2.29	2.43	
LS4 8.0-9.31	0.86	1.03	
LS4 9.31-11.4	0.60	0.69	
LS4 11.4-11.5	0.17		--
LS4 11.5-14.1	0.26		--
LS4 14.1-15.35	0.36		--
LS4 15.35-18.1	0.46	0.46	
LS4 18.1-19.35	0.33		--
LS4 19.35-24.0	0.22	0.19	
LS4 24.0-29.50	0.04		--

UNITS	ppm	ppm
DET.LIM	0.01	0.01
SCHEME	FA1	FA1

MINERAL CHEMISTRY

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Mr Dennis O'Neill
Macmin NL
PO Box 7996
BUNDALL QLD 4217

FINAL ANALYSIS REPORT

Your Order No: 13007

Our Job Number : 6AD2293

Sample rec'd : 11/06/96

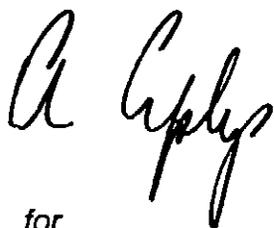
Results reported : 25/06/96

No. of samples : 3

Report comprises a cover sheet and pages 1 to 1

This report relates specifically to the samples tested in so far that the samples as supplied are truly representative of the sample source.

Approved Signature:



for
Alan Ciplis
Manager - Mineral Chemistry

CC D McP Duncan Tasmania

Report Codes:

N.A. - Not Available.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample.

Distribution Codes:

CC - Carbon Copy
EM - Electronic Media
MM - Magnetic Media



348071

Analytical Chemistry

Final
Job Number: 6AD2293
O/N : 13007

ANALYTICAL REPORT

Element	Unit	20112	20118	20119	
Au	ppb	7060	8800	3270	FA3 1 DL
Ag	ppm	8.5	12.0	8.0	IC2E 0.5 DL
As	ppm	3.16%	1.24%	6100	IC2E 1 DL
Cu	ppm	42	980	39	IC2E 1 DL
Pb	ppm	165	580	1200	IC2E 3 DL
Zn	ppm	5	2	74	IC2E 1 DL
Mo	ppm	9	14	14	IC2E 1 DL
Sb	ppm	20	5	10	IC2E 5 DL
Bi	ppm	35	260	<5	IC2E 5 DL

Petrography of some samples from the Lisle-Golconda Goldfield

R. Bottrill 22/07/96

Introduction

Twelve rock samples were collected by Dr D. McP Duncan, Macmin NL, and submitted for petrographic description, in particular regard to their gold mineralogy. The sample identifications (as received) were:

<i>Sample No.</i>	<i>Identification</i>	<i>Location</i>
110	Altered granodiorite	ENP1, 55-56 m
111	Sulphides	ENP1, 55-56 m
112	Sulphides	Telecom Trench, Enterprise (<i>missing</i>)
113	Altered granodiorite	ENP4, 91-92 m
114	Altered granodiorite	ENP4, 97-98 m
115	Bleached granodiorite	ENP4, 60-61 m
116	Sulphides	ENP2, 97-98 m
117	Hornfels/granodiorite?	ENP1, 61-62 m
118	Sulphides	Powerline adit, Golden Crest
120	Altered granodiorite	LS2, 58.3 m
121	Ordinary granodiorite	LS2, 50.2 m
122	Porphyritic granodiorite	LS3, 58.3 m
123	Ordinary granodiorite	South Lisle

Descriptions

110 Altered granodiorite ENP1, 55-56 m

This sample contains quartz (~25 - 30%, 0.1- 1 mm), altered plagioclase (~60 - 70%, 0.5 - 3 mm), altered biotite (~5 - 10%, 0.5 - 1 mm) and traces of rutile, leucoxene, zircon, sphalerite?, molybdenite, pyrite and chalcopyrite. Quartz +/- albite veinlets (<3 mm thick) are present and some fine grained quartzofeldspathic and chlorite-quartz patches may represent recrystallised xenoliths. About 30 - 70% of various plagioclase crystals are altered and replaced by sericite and muscovite (flakes up to ~0.5 mm). The biotite is completely altered and replaced by mixtures of muscovite, chlorite, rutile, leucoxene and quartz. The quartz is bimodal, with finer, intergranular stringers. The pyrite is fine to medium grained, euhedral to ragged, and is disseminated in altered biotite, feldspar and quartz and in quartz veins. Chalcopyrite is very fine grained (< 0.01 mm), and one 0.1 mm flake of molybdenite was seen. No gold was seen.

111 Sulphides ENP1, 55-56 m

This sample is composed of three rocktypes: mineralised quartz veins, mineralised chert, and minor altered granodiorite.

The granodiorite is similar to No. 110, with bimodal quartz, altered plagioclase and muscovite-replaced biotite. It contains trace leucoxene and pyrite (< 0.05 mm, disseminated and in veins) and rare euhedral arsenopyrite (<0.3 mm, near a vein margin). It is cut by quartz +/- calcite +/- pyrite veins.

The cherty zones vary from very fine grained to coarse grained, and are breccias with clasts of medium to coarse grained vein and granitic quartz (<2 mm), sericitised plagioclase (<5%, <0.2 mm) and muscovite (altered biotite?). The zones also contain "rice-grain" textures (abundant non-oriented, subhedral quartz grains, typical of many quartz veins in the NE Tasmanian goldfields). Stylolites contain abundant sericite and arsenopyrite (~1 - 100 microns), and arsenopyrite is also enriched in finer, sericitic chert patches (silicified wallrock). Pyrite is rare and fine grained.

The vein quartz is ~0.05 - 2 mm in size and is highly strained and sutured. Some fine grained quartz -sericite - pyrite zones probably represent clasts of silicified, sulphidised wallrock. One quartz vein (3 mm thick) is zoned: albite (rim) -> quartz -> calcite -> massive-euhedral pyrite (brecciated crystals <0.2 mm) (core?). There is minor fine apatite. The sulphides include: pyrite (~0.5%, < 0.2 mm, euhedral and brecciated), chalcopryrite (~0.5%, < 0.3 mm, irregular blebs), pyrrhotite (< 0.2%, < 0.1 mm, irregular blebs), arsenopyrite (~0.5%, ~1 - 100 microns), marcasite (fine aggregates and veinlets), rare sphalerite (blebs with chalcopryrite, < 0.05 mm) and bismuthinite (prismatic crystals with chalcopryrite, < 0.05 mm). Gold is present as very fine, pale coloured (electrum: silver rich) grains < 10 microns, with chalcopryrite and (?)maldonite (Au_2Bi , irregular, < 20 microns).

113 *Altered granodiorite ENP4, 91-92 m*

This sample contains quartz (~40%, 0.5 - 1 mm), altered plagioclase (~50%, 0.5 - 4 mm), altered biotite (~5 - 10%, ~0.5 mm), 5% calcite (disseminated and veins, confirmed by XRD), pyrrhotite (~1%, < 0.4 mm, ragged to euhedral, tabular grains), pyrite (~0.5%, < 0.4 mm, euhedral to skeletal, partly altered pyrrhotite?) and traces of chalcopryrite (< 0.3 mm), rutile and leucoxene. Most of the sulphides are associated with calcite and altered biotite, and particularly in a pyrrhotite-rich calcite veinlet. About 50% of the plagioclase is altered and replaced by sericite, calcite and muscovite (flakes up to ~0.5 mm). The biotite is completely altered and replaced by mixtures of muscovite, chlorite, calcite, quartz, sulphides, rutile and leucoxene. No gold was seen.

114 *Altered granodiorite ENP4, 97-98 m*

This sample contains quartz (~30%, ~0.5 mm, with phenocrysts to 2 mm), slightly altered plagioclase (~60%, 0.5 - 2 mm, with phenocrysts to 5 mm), biotite (red-brown, ~5 - 10%, 0.1 - 1.5 mm), pyrrhotite (~1%, <0.5 mm) and traces of ilmenite (~0.5%, <0.1 mm), hornblende (green-brown, ~0.1 - 0.5 mm, mostly in cores of plagioclase), apatite, zircon, rutile, leucoxene and chalcopryrite (<0.05 mm). About 5% of the plagioclase is altered to sericite, muscovite and calcite, and it is zoned from about An_{10} (rims) to An_{40} (cores).

The biotite is variably altered from very fresh to mixtures of chlorite, muscovite, ilmenite and sulphides. The sulphides and ilmenite are typically intergrown, and this probably represents high temperature sulphidation of iron (and copper) in the biotite and ilmenite. No gold was seen.

115 Bleached granodiorite, ENP4, 60-61 m

This sample contains quartz (~35%, 0.1 - 1 mm), altered plagioclase (~60%, 0.5 - 4 mm), altered biotite (~5%, 0.5 - 1 mm) and traces of leucoxene (~0.5%), apatite, rutile, zircon, arsenopyrite (<0.3 mm, euhedral, in veins) and chalcopyrite (<0.05 mm). Quartz +/- chert veinlets (<3 mm thick) occur, with comb-textured quartz cut by chert microveinlets. About 50% of the plagioclase is altered and replaced by sericite, muscovite (flakes up to ~0.5 mm) and albite. The biotite is completely altered and replaced by muscovite, leucoxene and quartz. No gold was seen.

116 Sulphides ENP2, 97-98 m

This sample contains altered granodiorite, sulphide-rich zones, and quartz veins.

The granodiorite consists of quartz (~50%, 0.05 - 0.5 mm, with phenocrysts <2 mm), altered plagioclase (~45%, 0.2 - 0.1, with phenocrysts <2 mm), altered biotite (~5 - 10%, 0.5 - 1 mm) and traces of zircon, apatite, rutile, leucoxene, pyrite, chalcopyrite and ^{marcasite}~~chalcopyrite~~. Between 30 and 90% of individual plagioclase crystals are altered and replaced by sericite and muscovite (flakes up to ~0.5 mm). The biotite is completely altered and replaced by mixtures of muscovite, chlorite and quartz. There is a fine grained groundmass (~30%) of quartz, plagioclase, sericite and calcite, ~0.05 - 0.2 mm in grain size. The pyrite is disseminated throughout various minerals, and is euhedral to skeletal and poikiloblastic, < 0.15 mm, and includes some marcasite.

The sulphidic zones are highly variable in nature but contain calcite (~30%, ~0.05 - 0.2 mm), arsenopyrite (~25%, 0.1 - 1 mm), quartz (~40%, 0.01 - 0.2 mm), and pyrite (~5%, 0.1 - 1 mm). There are rice-grain textures in the

quartz. The sulphides are euhedral to anhedral and highly brecciated. Some of the pyrite is rimmed by, and partly altered to, arsenopyrite. Some of the arsenopyrite occurs as very fine grained aggregates, perhaps partly due to deformation, but some suggests a replacement of an unidentified blocky mineral (a ferroan carbonate?). There is a trace of galena as inclusions (< 0.02 mm) in pyrite and arsenopyrite.

The quartz veins are up to a few mm in thickness, with minor calcite, clasts of sulphidic chert and massive sulphides (pyrite - arsenopyrite aggregates as above), and rare chalcopyrite (< 0.05 mm), galena (< 0.02 mm) and bismuthinite (needles ~0.01 x 0.06 mm). Molybdenite occurs in carbonate veinlets in and adjacent to the quartz veins, as flakes < 0.2 mm.

No gold was seen.

117 *Hornfels/granodiorite? ENP1, 61-62 m*

This sample contains quartz (~20%, 0.05- 0.15 mm), altered feldspar (~60%, ~0.1 mm), fresh red-brown biotite (~20%, ~0.1 mm) and traces of ilmenite, leucosene, pyrite and molybdenite (flakes < 0.6 mm in quartz veinlets). The sample is slightly mottled, from a weak spotty segregation of biotite, quartz and feldspars. About 95% of the plagioclase is altered and replaced by sericite; but some coarser, less altered albite occurs in small veins and segregations. Biotite and ilmenite are unaltered however. Discontinuous, discrete quartz and muscovite veinlets (<2 mm thick) occur. No gold was seen.

The rock is a feldspar - quartz - biotite hornfels.

118 *Sulphides Powerline adit, Golden Crest*

This sample is composed of about 80% quartz, 20% chalcopyrite, 1% pyrite and a trace of other minerals. A zone of massive, fine grained arsenopyrite was observed in the hand specimen but not in the thin section. The rock is partly weathered (to fine grained scorodite, jarosite and limonite; the first two confirmed by XRD).

The quartz is of at least three stages: early, middle and late. The early stage is highly strained quartz grains <5 mm; the middle stage has partly recrystallised this to less strained grains, 1 mm. late stage quartz is cherty and cuts across the early quartz in a brittle manner. There are rare rutile inclusions.

The chalcopyrite occurs as irregular veins, networks and segregations to ~5 mm across, largely intergranular to quartz but also cross-cutting some grains. It encloses some euhedral quartz and pyrite crystals, and minor sphalerite (<60 microns) and bismuthinite (<10 microns). Some of the chalcopyrite has been deflected into late stage cherty veinlets. There is pervasive alteration to covellite along grain boundaries and fractures, and more complete alteration to scorodite(?) in parts.

Pyrite occurs as slightly brecciated, finely poikiloblastic, euhedral crystals (<0.6 mm), and as fine grained aggregates (~5 - 50 microns) with marcasite after euhedral hexagonal plates of pyrrhotite (<0.5 mm). The pyrite occurs mostly on the chalcopyrite-quartz contacts but also within either mineral.

Gold is locally abundant (but erratically distributed) and occurs in several different associations: as fine inclusions (<5 microns) in coarse grained pyrite; as inclusions in chalcopyrite (< 30 microns, usually near pyrite); in pyrite-marcasite aggregates after pyrrhotite (<30 microns); and in fractured pyrite and intergrowths of medium grained pyrite and chalcopyrite (< 60 microns). All of the gold is pale and probably very silver rich (electrum, ~30 - 50% silver?) fine patches intergrown with pyrite in the massive chalcopyrite.

120 *Altered granodiorite LS2, 58.3 m*

This sample contains quartz (~35%, 0.5-1 mm), altered plagioclase (~50%, 0.5 - 2 mm), altered biotite (~10%, 0.2 - 1 mm), altered hornblende (~5%, ~0.2 - 1 mm) and traces of apatite, leucoxene, zircon, rutile and pyrite (<0.1 mm). The rock is slightly weathered, with some limonite veinlets. About 30% of the plagioclase is altered to fine sericite. The biotite is completely altered and replaced by chlorite, muscovite, quartz and leucoxene. The hornblende is completely altered and replaced by quartz, chlorite, clays and

biotite. The pyrite is euhedral to ragged and poikiloblastic, with some inclusions of pyrrhotite and chalcopyrite. No gold was seen.

121 *Ordinary granodiorite LS2, 50.2 m*

This sample contains quartz (~25%, 0.5 - 1.5 mm), altered plagioclase (~55%, 0.5 - 2 mm), red-brown biotite (~10%, 0.5 - 1.5 mm), green hornblende (~10%, ~0.2 - 1 mm), pyrrhotite (~1%, <0.5 mm), ilmenite (~0.5%, <0.3 mm), and traces of sphene, apatite, zircon and chalcopyrite (<0.05 mm). About 5% of the plagioclase is altered to sericite, and it is zoned from about An₁₀ (rims) to An₄₀ (cores). The hornblende is euhedral to fibrous and commonly intergrown with biotite. There is about 5-10% chloritisation of biotite and hornblende. Most of the sulphides and ilmenite are associated with mafics, but some is disseminated in other minerals. The sulphides may be late magmatic. No gold was seen.

122 *Porphyritic granodiorite LS3, 58.3 m*

This sample contains quartz (~25%, 0.2 - 0.5 mm), altered plagioclase (~60%, 0.5 - 1 mm, with phenocrysts <5 mm), red-brown biotite (~10%, ~0.5 mm), altered hornblende (~2%, ~0.5 - 2 mm), pyrrhotite (~1%, <0.2 mm), ilmenite (~0.5%, <0.1 mm), and traces of zircon, apatite, and chalcopyrite (<0.05 mm). About 5% of the plagioclase is altered to sericite, and it is zoned from about An₁₀ (rims) to An₃₀ (cores). About 5% of the biotite is altered to chlorite. The hornblende is almost completely altered and replaced by ragged aggregates of biotite, quartz, sericite, calcite and opaques. Most of the sulphides and ilmenite are associated with mafics and may be late magmatic. No gold was seen.

123 *Ordinary granodiorite South Lisle*

This sample contains quartz (~40%, 1 - 2 mm), altered plagioclase (~45%, 0.5 - 2 mm), red-brown biotite (~10%, 0.5 - 2 mm), green-brown hornblende (~5%, ~0.5 - 1 mm) and traces of apatite, muscovite, zircon, rutile and pyrite (< 0.05 mm). About 5% of the plagioclase is altered to sericite, and it is

zoned from about An₁₀ (rims) to An₄₅ (cores). About 10% of the biotite is altered to chlorite, and some is partly replaced by hornblende. The hornblende is skeletal and ragged, and variably altered to aggregates of chlorite, quartz, calcite and opaques. No gold was seen.

Summary: host rocks

The petrography indicates the hostrocks to be mostly granodiorite or tonalite. It is described in this report as granodiorite, but may be the latter as no K-feldspar was seen in any sample, although alteration obscured the identity of the feldspars in most samples. Some feldspar-quartz-biotite hornfels was also identified (No. 117); this is weakly veined and highly sericitised, with traces of molybdenite.

In the granodiorites, quartz ranges from ~25 to 40%, plagioclase ~45 - 70%, biotite ~5 - 10%, and <10% green-brown hornblende (pre-alteration estimates). Hornblende may have been present in most of the granitoids examined but was usually obscured by alteration. There are also traces of ilmenite, leucoxene, apatite, zircon, sphene, rutile, pyrrhotite, chalcopyrite, molybdenite and pyrite. The plagioclase crystals, where relatively fresh, are zoned: andesine-albite (~An₄₀ - An₁₀). The rocks are medium to fine grained (largely < 1 mm), slightly porphyritic to essentially equigranular and non-foliated.

These rocks are presumably Late Devonian granitoids but are relatively primitive, undifferentiated, and mafic-rich, similar to the granodiorite in the Lisle DDHs drilled by the Mines Dept. (Bottrill, in press). They are, however, mostly finer grained (probably due to rapid cooling near their contacts) and are more highly altered (as described below) than the granodiorite in the Lisle DDHs.

The South Lisle granodiorite is similar to the drillhole samples, but is slightly coarser, less sulphidic, less altered and has a higher quartz/plagioclase ratio.

Hydrothermal alteration and associated mineralisation

Alteration is pervasive but variable, and comprises sericitisation, chloritisation, sulphidation and carbonation (of plagioclase, hornblende and biotite). The sericite is relatively coarse (<0.6 mm). Alteration of mafics is complete in many samples, and almost complete for feldspars in several samples. The predominant alteration style is phyllic (sericitisation and pyritisation), with minor propylitic alteration (carbonatization + chloritisation of mafics). The alteration is similar to that in the Lisle DDHs (Bottrill, in press), but is more highly developed.

The forms of alteration and replacement, in order of abundance for each mineral, are:

plagioclase → muscovite, sericite, calcite and sulphides;

biotite → muscovite, chlorite, rutile, sulphides and calcite;

hornblende → calcite, chlorite, sulphides, rutile and quartz.

ilmenite → rutile and sulphides

and

pyrrhotite → pyrite

The alteration may have initiated from late-stage magmatic-dominated fluids released during the sub-solidus cooling of the granodiorite. The traces of disseminated sulphides, particularly pyrrhotite and molybdenite, probably also originate at this stage. Mineralisation styles and textures, however, suggest that much of the sulphides and quartz veining originated at lower temperatures, and some of the sericitisation, etc. may reflect this later hydrothermal alteration.

Veins are common, and variable in texture and mineralogy. The vein quartz is variable in size, mostly highly strained and partly recrystallised. Brecciated clasts of feldspars, sulphides, quartz, chert and silicified,

sulphidised wallrock occur, as do arsenopyrite-rich stylolites. Sulphides in the quartz veins include abundant pyrite, chalcopyrite, arsenopyrite and pyrrhotite, and traces of molybdenite, bismuthinite, marcasite, sphalerite and galena. Calcite veins occur, and are locally rich in pyrrhotite. Other veins are composed largely of brecciated arsenopyrite, pyrite, and chalcopyrite.

Gold was seen in samples 111 and 118. It occurs erratically as fine to very fine electrum grains with pyrite, chalcopyrite, marcasite, bismuthinite and (?)maldonite (Au_2Bi , No. 111). Some of the pyrite and marcasite associated with gold is probably pseudomorphic after pyrrhotite (No. 118). Electrum inclusions in pyrite and with (?)maldonite are usually <5 microns in size, whilst that in chalcopyrite and intergrown with granular pyrite and chalcopyrite are much coarser: up to 60 microns (No. 118). The electrum grains are all very silver rich, probably about 30 - 50% silver.

Interpretation

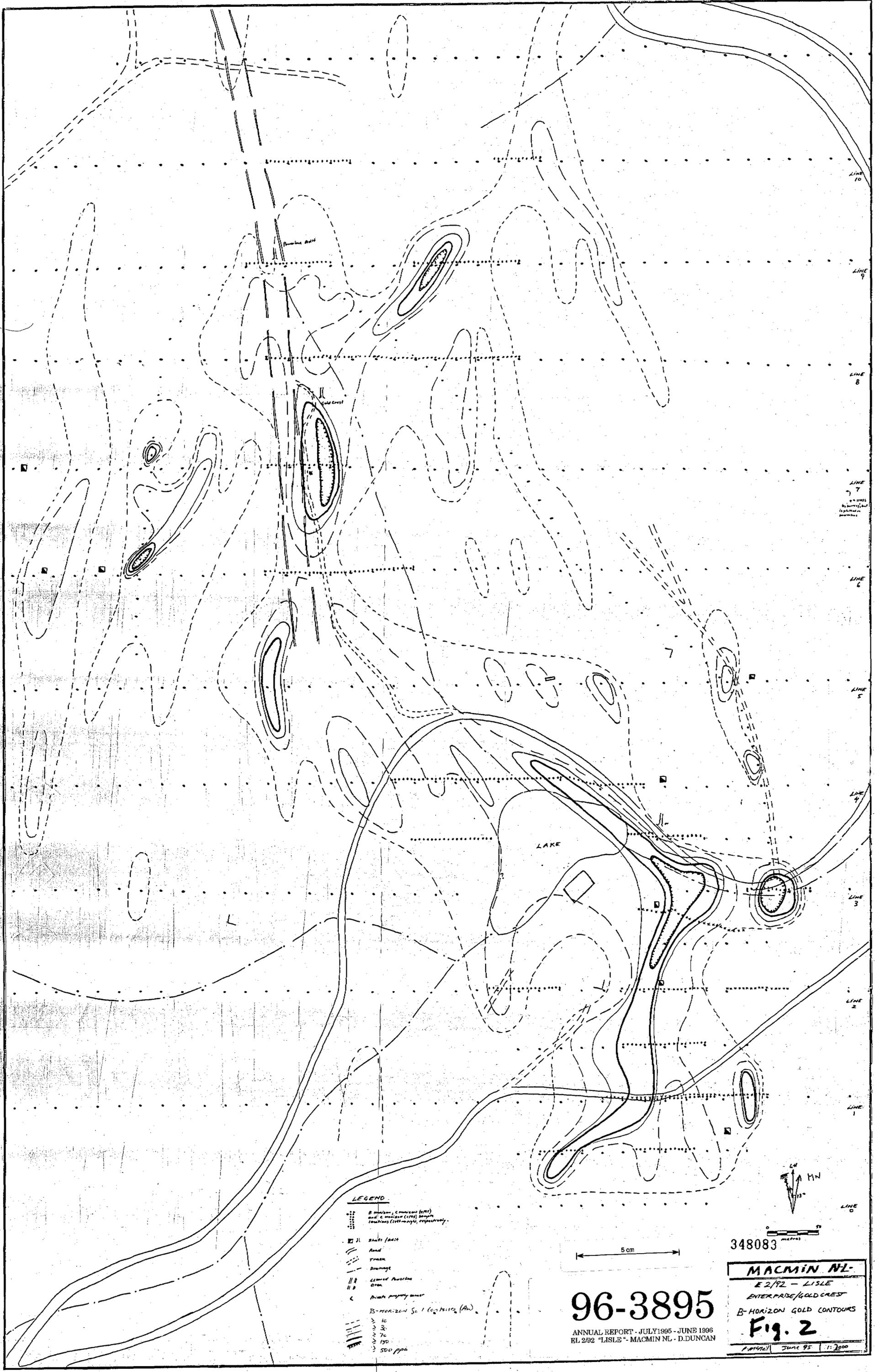
Paragenetically the origin of the hydrothermal alteration and associated mineralisation can be described as following.

As the granodiorites intruded and cooled, there was probably some local mechanical brecciation at the contact. High temperature residual magmatic-hydrothermal fluids (enriched in SiO_2 , CO_2 , H_2S and K) collected in this zone, veining, altering and partly replacing the granodiorite. This fluid locally completely replaced the mafics and much of the plagioclase, precipitating calcite, chlorite, muscovite-sericite, pyrrhotite, chalcopyrite, molybdenite, bismuthinite and other sulphides. The base metals may have been derived from the residual magmatic fluids, from leaching of the granodiorite, from possible underlying granitic bodies (eg Bi, Mo?), from groundwaters, from metamorphic waters in the metasediments (Au?) or from a mixture of all of the above.

As the granodiorite cooled, the hydrothermal fluids also dropped in temperature. Tectonic activity and fluid overpressure caused repeatedly veining, brecciation and recrystallisation of the veins and wallrocks,

remobilising the more soluble and ductile minerals (eg. chalcopyrite). Gold-bearing fluids derived from devolatilised metasediments probably entered the granodiorite in circulating hydrothermal systems. The silicified polymict breccia textures indicate boiling. Pyrrhotite was altered to granular aggregates of pyrite and marcasite, perhaps releasing some gold from solid solution to be partly trapped in pyrite. Late stage deformation and recrystallisation coarsened the gold in pressure shadows of the pyrite enclosed by chalcopyrite. During late stage remobilisation some of the bismuth reacted with gold to form maldonite.

R. Bottrill 22/07/96



- LEGEND**
- B horizon, C horizon (B/C) and G horizon (C/G) stream locations (left-to-right, respectively).
 - Shale fault
 - Road
 - Track
 - Drainage
 - Closed Profile Area
 - Break in profile
 - B-Horizon Soil Contours (Au)
 - 10
 - 20
 - 30
 - 50
 - 100
 - 500 ppm



5 cm

348083

96-3895
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 EL. 2/92 "LISLE" - MACMIN NL - D. DUNCAN

MACMIN NL
 E 2/92 - LISLE
 ENTERPRISE/GOLD CREST
 B-HORIZON GOLD CONTOURS
Fig. 2
 P. 10/96 JUNE 95 1:2000



LEGEND

- B-Horizon, Contaminated (1991) and C-Horizon (1992) samples (contaminated), respectively.
- A Shale fault
- Road
- - - - - Drainage
- ▨ Contaminated Area
- ▧ Drain
- ◁ Private property owner
- C-Horizon Soil Assay Contours
 - 200 ppm As
 - - - - - 3250 ppm As
 - ▨ 5500 ppm As

5 cm

348085

MACMIN NL
 E 2/92 - LISLE
 ENTERPRISE/GOLD CREST
 C-HORIZON ARSENIC ASSAYS
Fig. 5
 11/2000

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LEGEND

- B horizon, C horizon (198) and E horizon (198) sample locations (see map, especially in 4m sample spacing (C) and 2m (B).
- Shaft/hoist
- Road
- Drainage
- ||| Cleared Area
- ◁ Private property owner
- C-horizon Soil Assay Contours
 - > 10 ppb (1:10 g/t)
 - - - > 30 ppb (0.45 g/t)
 - > 100 ppb (1.50 g/t)
 - > 500 ppb (7.50 g/t)

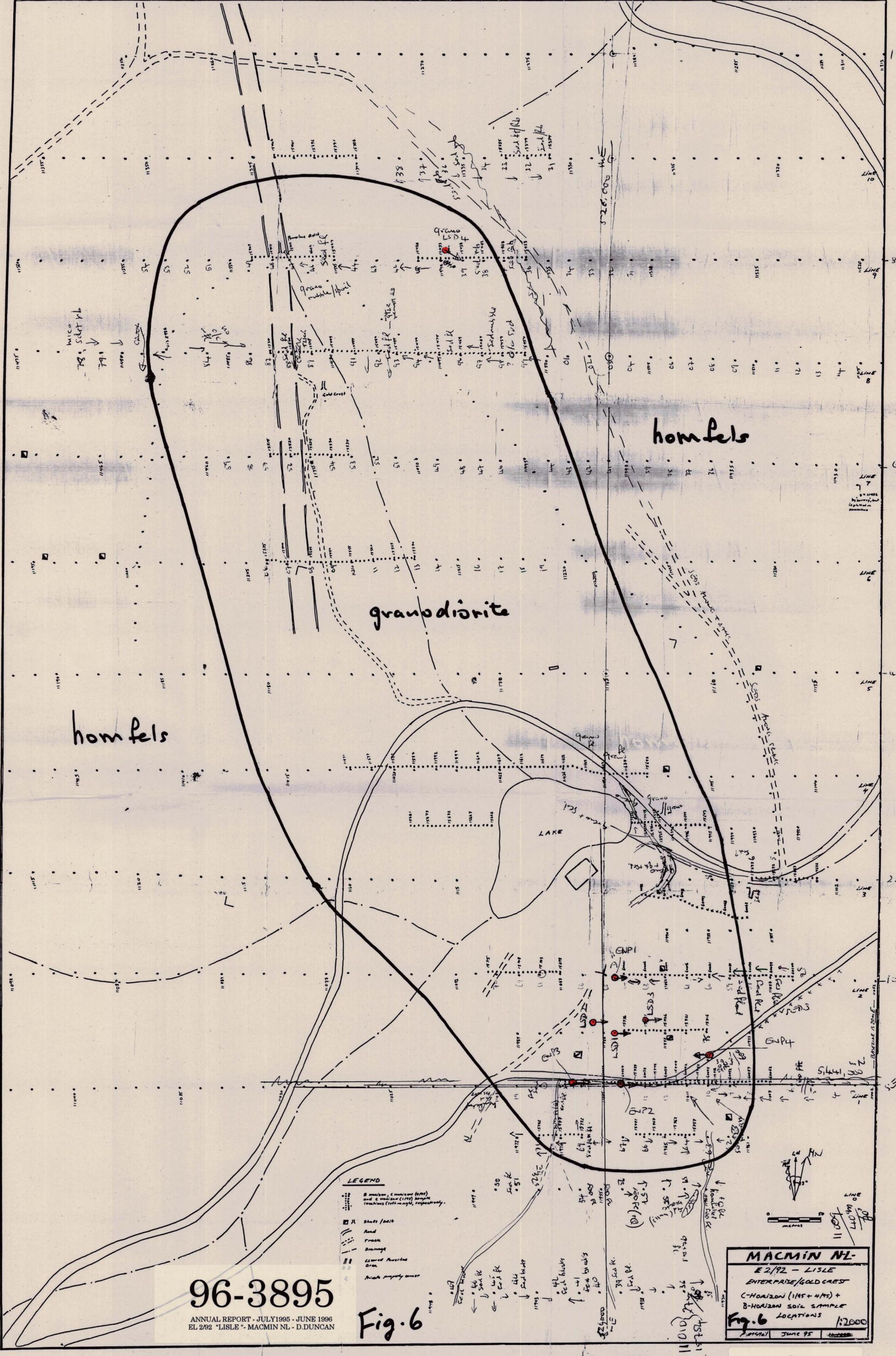
5 cm

348086

96-3895

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MACMIN NL		
E 2/92 - LISLE		
ENTERPRISE/GOLD CREST		
C-Horizon GOLD ASSAYS		
Fig. 4		
P4467	JUNE 95	11 2000



hornfels

granodiorite

hornfels

LEGEND

- B horizon, C horizon (grey) and A horizon (red) sample locations (left to right, respectively).
- X Shale / silt
- Road
- - - - - Frazz
- - - - - Drainage
- || Cleared Area
- Private property owner

MACMIN NL
 E2/92 - LISLE
 ENTERPRISE/GOLD CREST
 C-HORIZON (1/95 + 4/95) +
 B-HORIZON SOIL SAMPLE
Fig. 6 LOCATIONS
 1/2000
 1996/1 JUNE 95

96-3895

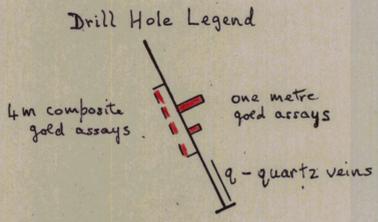
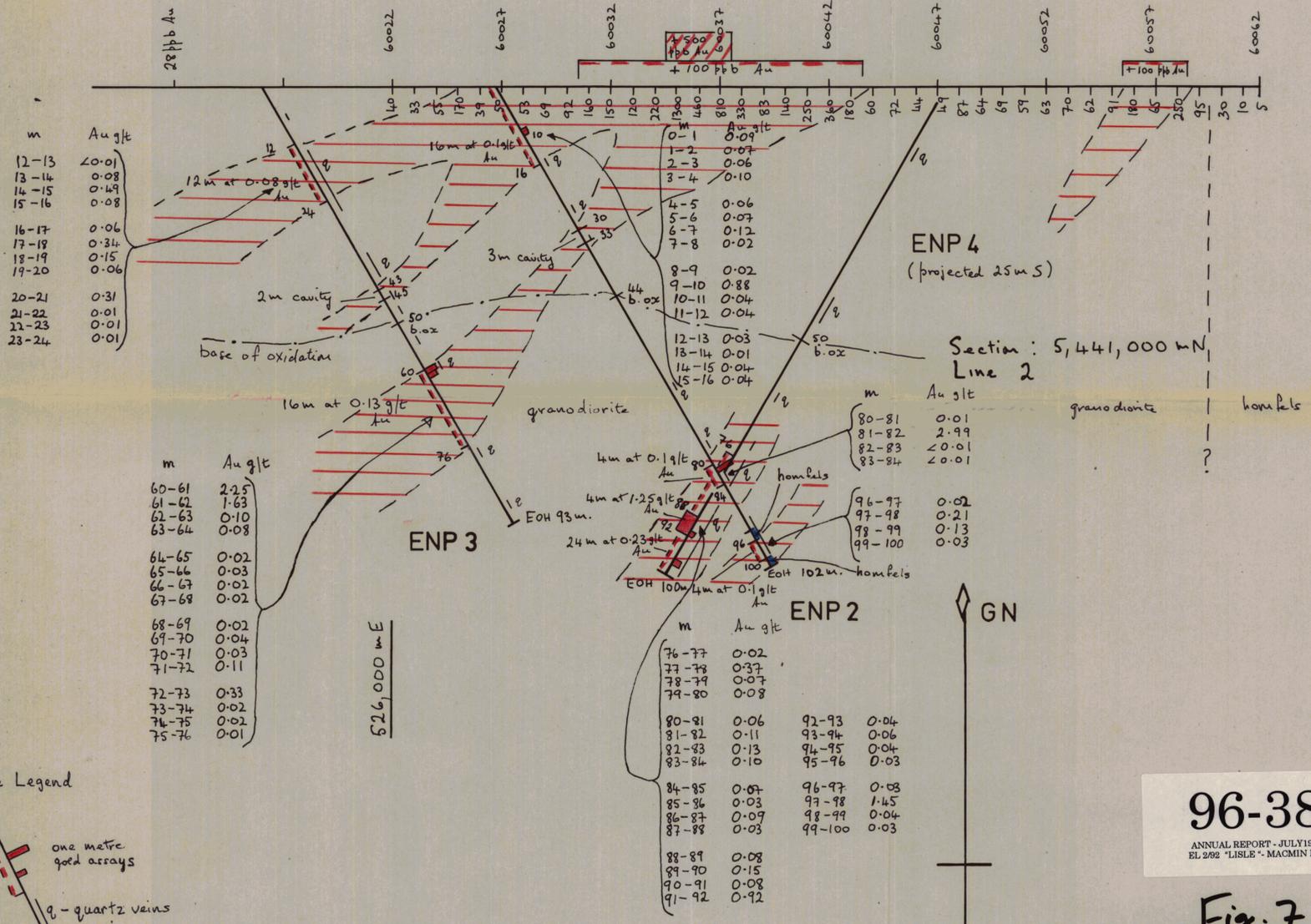
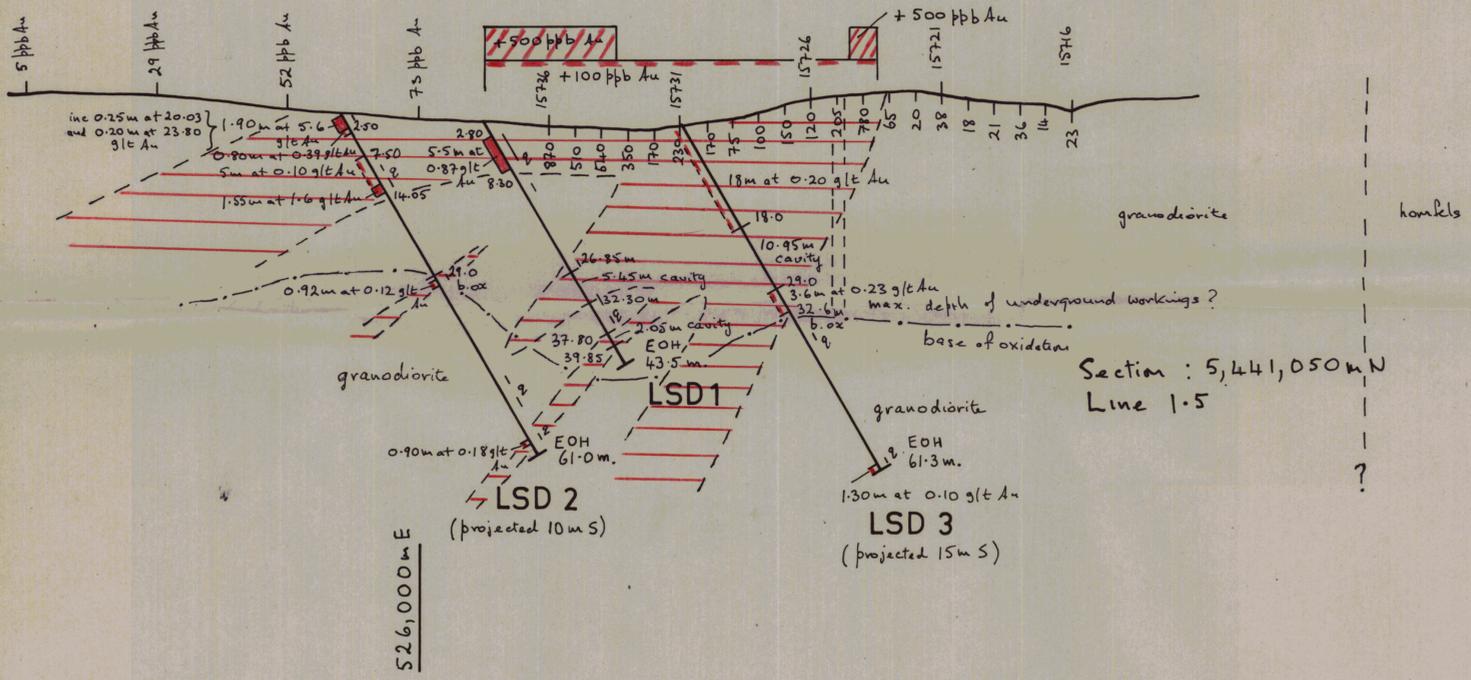
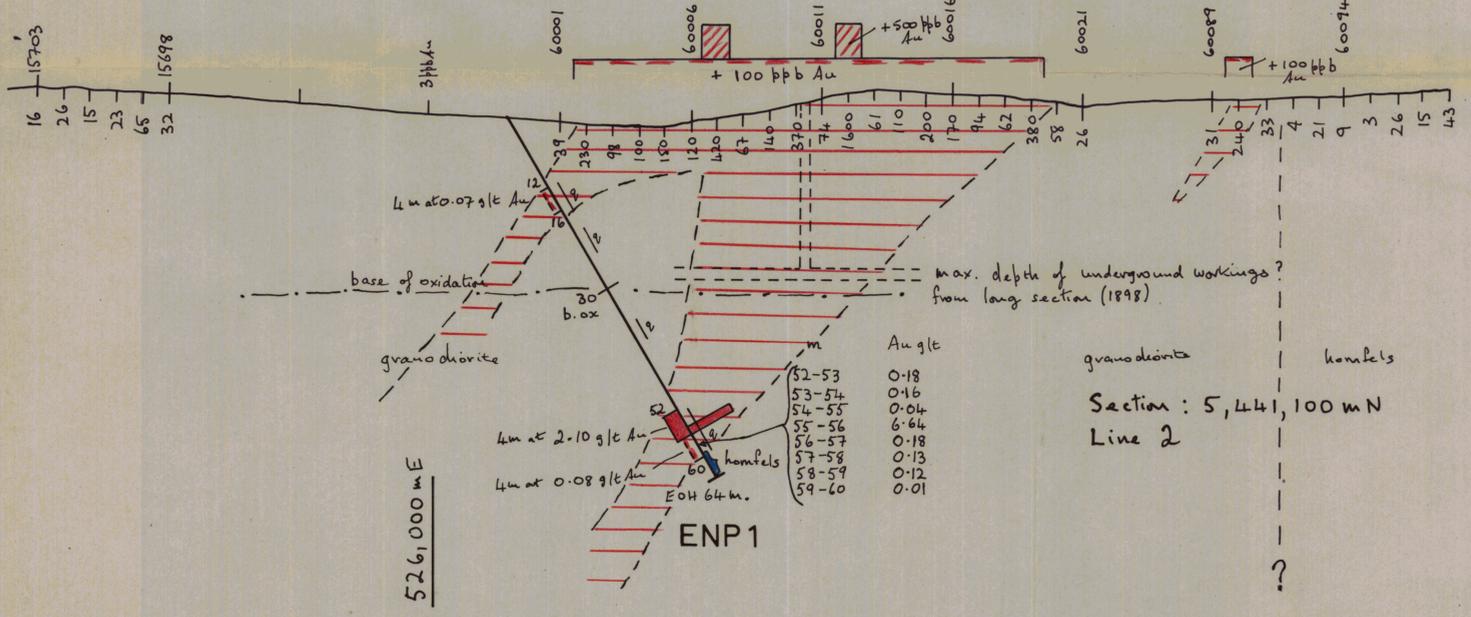
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Fig. 6

348087

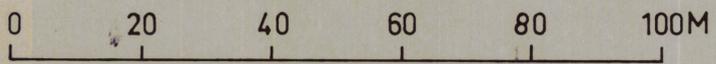
5 cm

C-horizon soils
auger
Au ppb



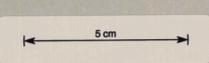
0.1 g/t Au approx. outline

ENTERPRISE DRILL SECTIONS



V/H = 1

348088



96-3895

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EL 2/82 LISLE - MACMIN NL - D DUNCAN

Fig. 7

MACMIN N.L.

EL 2/82 LISLE
ENTERPRISE/GOLD CREST GRID
1:500

COMPILED BY DM (2) FIGURE 7/96