85-1047 - 14651

Shangri-La Minerals Limited

12/86

REPORT

ON THE

SECOND PHASE OF EXPLORATION

FOR

TOBY CREEK RESOURCES LTD.

ON THE

FILMED

YUNIMAN CROWN GRANTS

AND

GEOLOGICAL BRANCH
ASSESSMENT REPORT

OLD DIGGINGS CLAIM

14,651

HEDLEY AREA

OSOYOOS MINING DIVISION
BRITISH COLUMBIA
NTS 82E/5W

49° 18' 119° 56'

BY

FRANK DI SPIRITO, B.A.Sc., P.Eng.
Nigel Hulme, B.Sc.,
Robert Thomson, B.Sc.

November 1985

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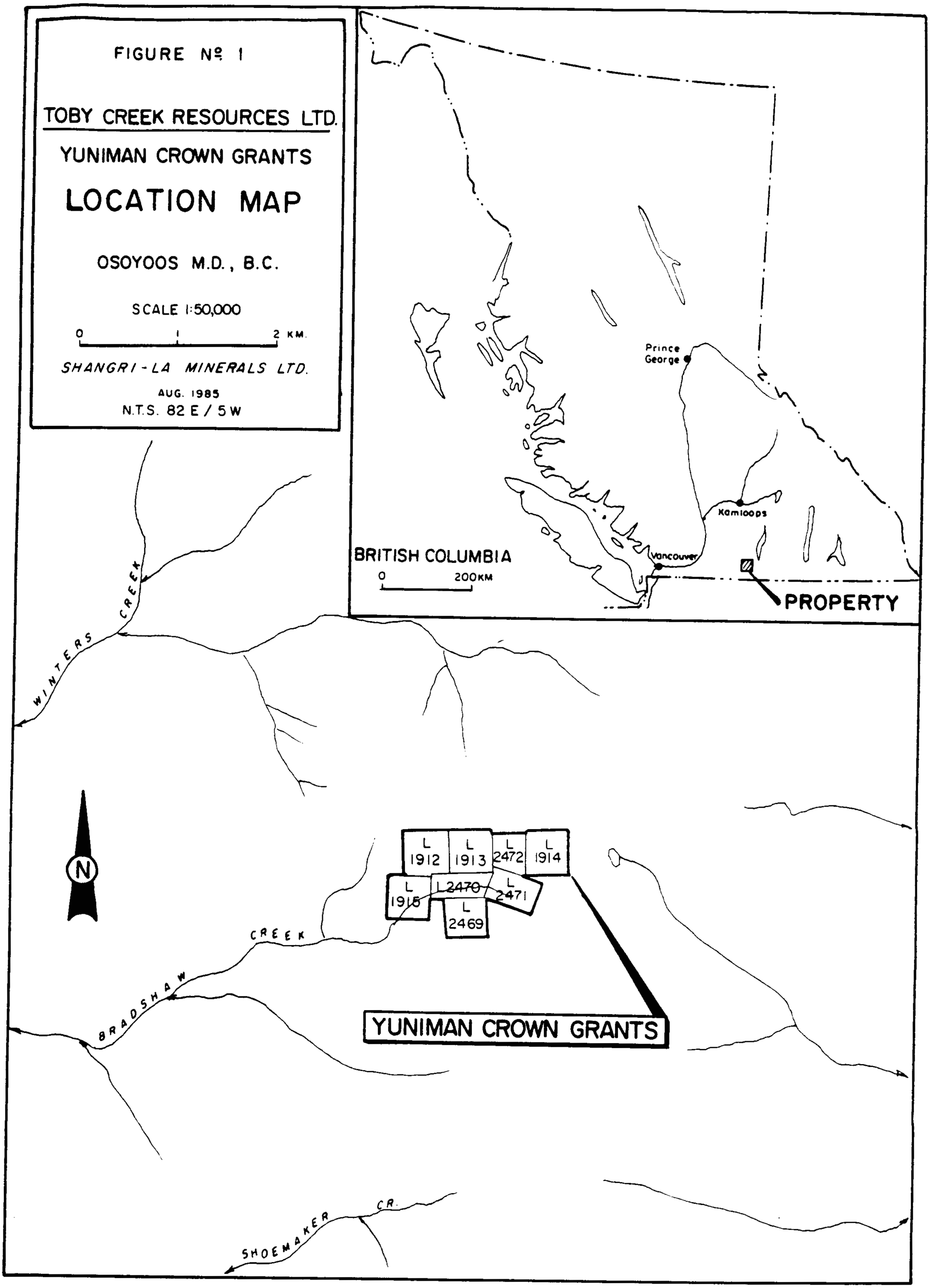


FIGURE No 1
TOBY CREEK RESOURCES LTD.
YUNIMAN CROWN GRANTS
LOCATION MAP
OSOYOOS M.D., B.C.
SCALE 1:50,000
0
1
2 KM.
SHANGRI-LA MINERALS LTD.
AUG. 1985
N.T.S. 82 E / 5 W
Prince George
Kamloops
Vancouver
BRITISH COLUMBIA
0
200KM
PROPERTY
WINTERS CREEK
N
L 1912
L 1913
L 2472
L 1914
L 1915
L 2470
L 2471
L 2469
BRADSHAW CREEK
YUNIMAN CROWN GRANTS
SHOEMAKER CR.

SUMMARY

A combined program of geological, geophysical and geochemical surveys, as well as an environmental study, was conducted on the Yuniman Crown grants and Old Diggings claim. The program was perfomed by Shangri-La Minerals Ltd. during the period of July 25 to October 4, 1985.

This report covers a portion of the mineral claims located in the "Hedley Gold Camp" which belong to, or are held under option by Toby Creek Resources Ltd.

An interpretation of technical information compiled during the current program as well as past exploration efforts conducted on what is known as the Yuniman Ridge is included within this report.

The results are very encouraging. Several gold occurrences which display signs of economic potential have been located. Thus, a third phase of exploration is recommended.

In order to better evaluate the economic potential of the property, additional trenching and geochemcial analyses of samples collected, but not analyzed during phase two should be performed. Diamond drilling of target areas is also recommended.

Respectfully submitted at Vancouver, B.C.

Frank DiSpirito, B.A.Sc., P.Eng.
15 November 1985

PART A

INTRODUCTION

From July 25, 1985 to October 4, 1985 a second phase of exploration was conducted on the Yuniman Project. The work consisted of:

1) Detailed geological mapping and prospecting
2) High resolution magnetic and electromagnetic surveying
3) Soil and Vegetation studies
4) Thorough geochemical sampling and selective analysis over target areas
5) Linecutting and permanent grid establishment
6) Trenching and rehabilitation of underground workings.

This report summarizes the result of work programs recommended by the signing author in October 1984 and July 1985.

PROPERTY

The Yuniman Project consists of seven reverted Crown grants, one located claim and one escheated Crown grant.

Particulars are as follows:

NAME	LOT NO.	RECORD NO.	ANNIVERSARY	AREA (HECTARES)
Black Pine	1912	(Escheated)	-	20.902
Bush Rat	1913	1163	16 July 1986	20.902
Black Jack	1914	1415	25 May 1985	20.902
Little Bessie	1915	2163	21 Jan. 1986	20.902
Far West	2469	2165	21 Jan. 1986	20.902
Hub Fraction	2470	2156	21 Jan. 1986	16.431

Triune	2471	2471	22 May 1986	14.974
Blue Bell	2472	1416	21 Jan. 1986	12.141
Old Diggings	----	2081	9 Aug. 1990	(App.) 150

The claims are situated in the Osoyoos Mining Division of British Columbia.,

(*) The Old Diggings claim surrounds the Crown grants and partially overlaps located claims to the north and east.

LOCATION AND ACCESS

The property is located approximately 10 km southeast of Hedley, B.C. and approximately 30 km southwest of Penticton, B.C. It straddles the top and southern slopes of the Yuniman Ridge at the headwaters of Bradshaw Creek which flows westerly into the Similkameen River.

Access is best via a 17 kilometer four wheel drive road which originates at the town of Olalla, approximately 8 km north of Keremeos, B.C.

The property could easily be connected to a excellent maintained forestry road that leads to the Apex Mountain ski resort and to Nickel Plate Mountain, site of the Mascot Gold Mines Ltd. anticipated open pit mining operation. Road construction would not exceed two kilometers along gentle grades.

ECONOMIC POTENTIAL

While the size of the gold-bearing shoots tend to be limited at times, an aggressive follow-up program to delineate geometry and grade characteristics is certainly a worthwhile project for the following reasons:

1. The abundance, density and variety of high grade gold occurrences on the property suggests the presence of a major set of mineralization controls that could be related to an economic orebody at depth.

2. The limited geochemical data presently available suggests the presence of additional gold-bearing zones.

3. The intimate correlation between the gold occurrences and the numerous intrusions indicates a spatial relationship that implies continuity of mineralization at depth. The size, length and consistency of the intrusives leads to the assumption that their source is deep-seated.

4. The Bush Rat shear zone, at this stage, represents a target of some 25,000 to 50,000 tons at a grade of 0.80 to 1.00 oz. Au/ton.

These figures are based on the available records and from field observations and on the fact that the shoot would be;

a. A maximum of 400 meters long.

b. One meter wide.

c. Possibly up to 100 meters deep.

d. Displaying assay values that would be similar to those located at the Bush Rat pits (Samples BR-1 to 7, Y-28, Y-29, 2434, and 10516).

5. The numerous gold-bearing quartz veins located on the Black Pine Claim confirm the importance of structural controls. Their abundance and proximity as well as the variety of orientations seen in the more than fifty veins and stringers displayed underground represent signs of a potential stockwork. Only a number of selected and isolated veins have been sampled (i.e. Y-9, 18, 24, 45, 54 and 2441) along with few wallrock samples (i.e. Y-52, 53). This type of target represents the greatest potential for a larger tonnage, but lower grade deposit.

6. Additional zones displaying anomalous gold geochemistry require further

studying before any attempt to define their potential.

7. The anticipated construction of a mill by Mascot Gold Mines less than 10 kilometers away and the proximity of the Dankoe Mines Ltd. custom mill less than 40 kilometers by road, creates the opportunity to minimize the capital cost of putting the Yuniman project into production if and when its economic viability is determined.

8. Ground conditions appear very good in the old drifts and crosscuts and the authors therefore envisage relatively inexpensive methods such as shrinkage mining on the shear zone, while it is not yet possible to foresee what mining method could favor a potential stockwork deposit.

PART B - SURVEY SPECIFICATIONS

a) Grids

The survey grid was controlled by three north-south cut control lines and one east-west cut baseline. The legal corner post for the Old Diggings mineral claim was used as a benchmark. Additional control points were established by locating several Crown-granted claim survey posts. A pocket transit, a turing board, wood pickets, and a measuring chain were utilized.

Cut crosslines were turned at right angles to the control lines every 50 meters and picketed at 25 meter station intervals.

Intermediate crosslines were flagged using compass, hip chain and altimeter, between the cut lines, thus creating a grid with 25 meter centers.

A total of 48 km of line were cut and 27.6 km were flagged.

b) **Crone Model Shootback Electromagnetic Method**

The Crone EM system when used in the shootback mode measures dip angle (of the axis of polarization) of the electromagnetic field at the receiver coil. A primary EM field is set up by the transmitter coil. If a conductor is present between the transmitter and receiver coils, a secondary field is generated. The receiver coil senses the resultant of the superposition of the primary and secondary fields. The receiver and transmitter functions of the coils are switched at each station in order to minimize effects from topography. The two dip angles are then added together and equal zero if no conductors are present. The frequencies utilized to perform the present survey were 5010 Hertz and 1830 Hertz.

c) **Magnetometer Survey method**

The survey was conducted using a Scintrex MP-2 proton precession magnetometer. This instrument measures the magnitude of the total magnetic field of the earth to an accuracy of 1 gamma. Corrections for diurnal variation were made by tying into previously established stations at intervals not exceeding one hour. Readings were taken at 25 meter intervals along the traverse lines. Diurnal variations varied between 19 and 106 gammas with most changes occurring over short periods of time.

d) **Geochemical, soil and vegetation survey methods**

A total of approximately 2250 soil and 55 rock sample were collected.

Rock chip samples were taken from outcrops only where signs of mineralization, alteration and leaching were observed. Descriptions are found in the geology section.

Soil samples were taken from the "B" horizon using a cast iron mattock. Samples of no less than 200 grams were placed in Kraft paper gusset bags and sun dried before selection and shipment to the laboratory. A total of 456 samples were analyzed by Acme Analytical Laboratories Ltd. Using an induction coupled plasma spectrophotometer, atomic absorption and fire assay on check samples.

The soil and vegetation survey was conducted by traversing the property along the grid lines and by digging numerous pits to examine soil profiles with the objective of determining the relative merit of the geochemical results.

e) **Trenching and Excavating Method**

A total of approximately 260 cubic meters of overburden and rock were excavated to expose rock surfaces for geological evaluation and to allow access into the underground workings found on the claims.

Most of the diggings were made by a mechanical excavator after which they were cleaned manually using shovels and brushes.

Several trenches and the portal entrances were dug out using picks and shovels.

No access roads were established. Special care was taken to create minimal ground disturbance by using a small track-mounted excavator and by piling the excavated material neatly beside all the diggings.

GEOLOGY

BY

NIGEL HULME, B.Sc.

Geology

PART C

Geology - Nigel Hulme, B.Sc.

The project area is underlain by Triassic or older volcanic and sedimentary rocks of the Independence, Shoemaker, and Old Tom Formations. These have been intruded by small bodies of diorite, quartz diorite and gabbro and by narrow dykes of intermediate to felsic composition.

Independence Formation

The Independence Formation is the oldest group of rocks on the property and is composed of chert, chert breccia, greenstone, and minor argillite. It is present as a northeasterly trending body which outcrops over the northwest half of the claim.

A few scattered outcrops of grey and black cherts, commonly stained red, were found in the northwestern corner of the property. Near the baseline, between 600S and 1000S, grey and green cherts are interbedded with greenstone, striking to the northeast and dipping mainly to the southeast. Bedding is defined by regular fractures within the cherts and by contact relationships between the cherts and greenstones. The greenstone in this area is fine-grained, dark green, and weathers dark brown. At LY625S, 162E, silicified amygdaloidal basalt was found to the south of a zone of pyrrhotite bearing greenstone.

In the southeastern corner of the Black Pine escheated Crown grant (L1912), and on the Bush Rat reverted Crown grant (L1913), the formation is largely represented by grey and green cherts which have been intruded by intermediate dykes and by a body of quartz diorite.

The northern half of the Bush Rat claim is underlain by black cherts and chert breccia. The breccia contains subangular chert fragments which vary from 1 mm to 40 cm in size, and average 3 cm. These are set in a green chloritic matrix of probable volcanic origin. The fragments are orientated parallel to bedding which again strikes northeasterly and dips steeply to the southeast. Further east, on reverted Crown grants L2472 and L1914, the Independence Formation outcrops as black and dark grey chert.

Shoemaker Formation

The Shoemaker Formation is composed of chert and minor limestone. The chert is commonly blue-grey to grey in color, displaying 1 to 4 cm wide beds striking northeasterly and dipping steeply southwest. The cherts are cliff forming in the south central area of the property, just to the west of the Far West (L2469) reverted Crown grant. A few outcrops of buff colored sugary chert are present on the Far West claim which contain minute particles of sub-rounded quartz, suggesting a more sandy nature than the grey and black cherts. One outrop of grey crystalline limestone is present near the eastern boundary of the claim group.

Old Tom Formation

The Old Tom Formation is comprised mainly of basalt, with lesser andesite and minor sediments. In the southeastern part of the Old Diggings claim, the formation is characterized by scoriaceous basalts containing abundant inclusions of limestone. The concentration of limestone inclusions increases westwards to the contact area between the Old Tom and Shoemaker Formations.

The Old Tom Formation also outcrops over the central area of the Black Pine claim. The rocks here are mainly basalts, varying from a dark grey aphanitic rock which weathers brown, to a grey-green rock which can contain phenocrysts of plagioclase generally 1 mm in size. Small occurrences of andesite contain euhedral to subhedral phenocrysts of pyroxene and hornblende less than 5 mm in size. In the trench at LY 475S, 612E, limestone inclusions, or infillings, are present in the basalt. Minor sediments, mainly argillaceous are present in the trench in the vicinity of LY 450S, 625E. The previous year's program had extended this body to the southwest; however, the presence of large amounts of chert here suggest that this area should be included within the Independence Formation.

Intrusive Rocks

Scattered bodies of diorite (Unit 4a) are present in the project area. The diorite is medium-grained and consists of euhedral to subhedral plagioclase, hornblende, and biotite. One large outcrop is located at LY800S, 150E, where it has intruded rocks of Independence Formation. Results from the magnetometer survey suggest that this body also extends southward and eastward. In the area surrounding Adit 1, LY400S, 800E, a body of quartz diorite has intruded the Independence Formation. It is fine to medium-grained and consists of 50% plagioclase, 20% quartz, and up to 30% pyroxene. The less mafic outcrops resemble a quartz feldspar porphyry. Gabbroic and dioritic dykes have intruded cherts on the Far West reverted Crown grants.

Narrow, northerly striking and steeply dipping dykes (Unit 5) have intruded rocks of the Old Tom and Independence Formations on the Black Pine and Bush Rat claims. These are mainly feldspar porphyry dykes containing plagioclase phenocrysts 1 to 2 mm in size and lesser amounts of hornblende phenocrysts up to 3 mm long in a grey to green groundmass. The dyke located in the area of LY300S, 1200E also contains magnetite. A narrow, light green aphanitic, slightly sericitic, more felsic dyke follows CL1E; this is a probable extension of a dyke found to the north on the adjoining Yuniman 1 claim. A porphyritic trachyte dyke (Unit 6) also found on the Yuniman 1 claim, and having a strike length of over 3 km, is present in the area of LY200S, 925E. This dyke contains large phenocrysts of plagioclase (1 cm), alkali feldspar (up to 3 cm), and smaller phenocrysts of hornblende (3 mm) set in a grey, siliceous ground mass.

Structure and Mineralization

The presence of minor faults and bedding orientations measured in the project area indicate that deformation has occurred. Bostock (Geological Survey of Canada, Summary Report, 1929, Part A, p. 202) concluded that this region lies on a southeast limb of a major anticline.

Several areas of interest with respect to gold mineralization exist on the property. A 90 cm wide shear zone in quartz diorite is exposed by a 5 m deep pit at LY400S, 812E. The quartz diorite has been bleached and now consists of weakly cemented grains of quartz and plagioclase. Vuggy quartz lenses are present; rubble of a vuggy quartz vein containing arsenopyrite, pyrite and galena, sampled from the dump of the pit, assayed up to 2.717 oz/ton gold. Samples of the shear zone (Y28,Y29) assayed 0.860 and 0.714 oz/ton gold. A sample taken in Adit #1 of this structure, Y9, assayed 0.277 oz/ton gold. This shear zone is known to extend to the vicinity of adits 2 and 3 (Annual Report of the Minister of Mines, 1937, p D10) and may also extend eastwards to LY275S, 1105E, where a minor fault and 1 m wide shear zone was discovered. This would give the zone a strike length of at least 420 m.

Adit 1 was initially driven on a 2 m wide north-northwesterly trending shear zone containing a 6 cm wide quartz vein bearing arsenopyrite, galena and sphalerite. A sample of this vein, Y6, assayed 0.035 oz/ton gold. Northerly trending slickensides plunging at shallow angles to the north indicate that movement on the shear zone was right lateral. Much of the host rock within the adit is siliceous and contains a small amount of carbonate.

Adits 2 and 3 were driven in order to expose the aforementioned northeast trending shear zone. Adit 3 is reported to follow this zone for 30 m, and adit 2 is reported to explore the intersection of the shear zone and a 10 cm wide northerly striking quartz vein. Both adits are caved, however, and so were not mapped during the 1985 survey. The quartz vein at adit 2 was sampled at the portal (Y54), and assayed 0.423 oz/ton gold.

Adit 4 and the trenches to the north expose a set of northwesterly striking quartz veins bearing arsenopyrite, pyrite, and/or pyrrhotite. The veins are of vitreous quartz which contain arsenopyrite, pyrite and pyrrhotite present as aggregates and streaks which parallel the strike direction of the veins. These veins are fairly narrow, generally varying in width from 1 to 10 cm, averaging less than 8 cm; one vein inside the adit swells to a 40 cm width. Eight of the veins in adit 4 were sampled (Figure 13). Assays ranged from 1.760 oz/ton Au over a 2-6 cm wide vein (Y20), 0.069 oz/ton Au over a 1-20 cm wide vein (Y21), 0.119 oz/ton Au over 1 cm wide vein (Y22), 0.870 oz/ton Au over 1-2 cm wide vein (Y24), and 0.191 oz/ton Au over a 20-40 cm wide vein (Y51). A 40 cm wide chip sample of the wall rock adjacent to Y51 assayed .091 oz/ton. Many of the veins have connecting sub-horizontal veinlets.

There are over 50 quartz veins and stringers exposed in this adit, however, time did not permit a comprehensive sampling program. A northwesterly trending fault located approximately 20 m from the adit portal truncates or offsets the veins here. This fault may be the continuation of the shear zone present at adits 2 and 3 and at the pit at LY400S, 812E.

The host rock in the adit are cherts and greenstones of the Independence Formation, intruded by several plagioclase porphyry dykes which are sub-parallel to the veins. Pillow shapes were observed in the west crosscut; these rocks may belong to the Old Tom Formation. Silicification and carbonatization are widespread.

The trenches to the north of adit 4 expose some of the veins found in that adit. Samples Y39 and Y45 are of a 7-8 cm wide vein containing abundant arsenopyrite and lesser pyrite and assayed 0.098 and 2.100 oz/ton respectively. Quartz vein float containing streaks of arsenopyrite and adjacent specks of free gold is present 4m downslope from this vein. A sample of this float collected during the 1984 survey assayed 2.805 oz/ton Au. Two intermediate dykes and their offshoots intrude the rocks in this area, accounting for the silcification found here.

A completely slumped pit and trenches at 620S, 125E (discovered in the 1984 survey) were re-opened and an exposed quartz vein was sampled over its length (Figure 12). Up to 7 cm wide, this vein trends northeasterly and dips steeply to the southeast. The vein contains abundant arsenopyrite, and assayed 0.076 oz/ton Au. Samples collected during 1984 of an associated 2 m wide shear, trending northeasterly and dipping steeply to the southeast, returned low gold values of 25 ppb (foot wall) and 15 ppb (hanging wall).

A small trench was discovered at LY1025S, 950E, on the Far West reverted Crown grant. This trench uncovers a 10 cm shear zone (attitude: 155°/76°W) in chert. Mineralization of pyrite, pyrrhotite and arsenopyrite is present in the shear zone and wall rock, but assays returned low gold values.

Iron manganese staining is a common feature of the rocks in the Independence and Shoemaker Formations. A trench in the vicinity of LY450S, 2000E was probably dug in order to examine an outcrop containing much pyrolusite. Soil samples from this area show higher than local background values in manganese and gold. A pit sunk on shear zone containing rhodonite, pyrite and arsenopyrite is reported in the literature (Report of the Minister of Mines 1937, p D11); this has not been located.

Silicification in the rocks on the western boundary is a probable result of contact metamorphism resulting from the intrusion of diorite in that area. The intrusion of the dykes on the Black Pine claim has also resulted in the silicification of adjacent rocks there.

f) Conclusion

The 1985 geological survey has delineated two zones of major interest. These are the Bush Rat shear zone and the numerous quartz veins situated on the Black Pine escheated Crown grant. The Bush Rat shear zone may continue into the Black Pine veins and has every indication of being a continuous structure. The large number and variable orientations of the Black Pine veins suggest signs of a potential stockwork. The close proximity of the intrusive rocks is favorable since geological features indicate that the mineralization was mobilized through the medium of hydrothermal fluids; much of the surrounding region is underlain by large bodies of granodiorite.

The presence of trachyte dyke on the Black Pine claim is noteworthy as this dyke has been found nearby many of the mineralized shear zones occurring on the Star of Hope group of claims, which adjoin the old Diggings claim to the north.

The nature of the various formations (basalts, large amount of chert, presence of limestone) indicate the rocks were deposited in an oceanic or sub-oceanic environment. Since the average gold content of such rocks is relatively high (Boyle, 1979) it is possible that the mineralization originated from the country rock, and that hydrothermal fluids accompanying the intrusions remobilized concentrated pockets of sulphides and precious metals.

A sequence of events may be as follows:

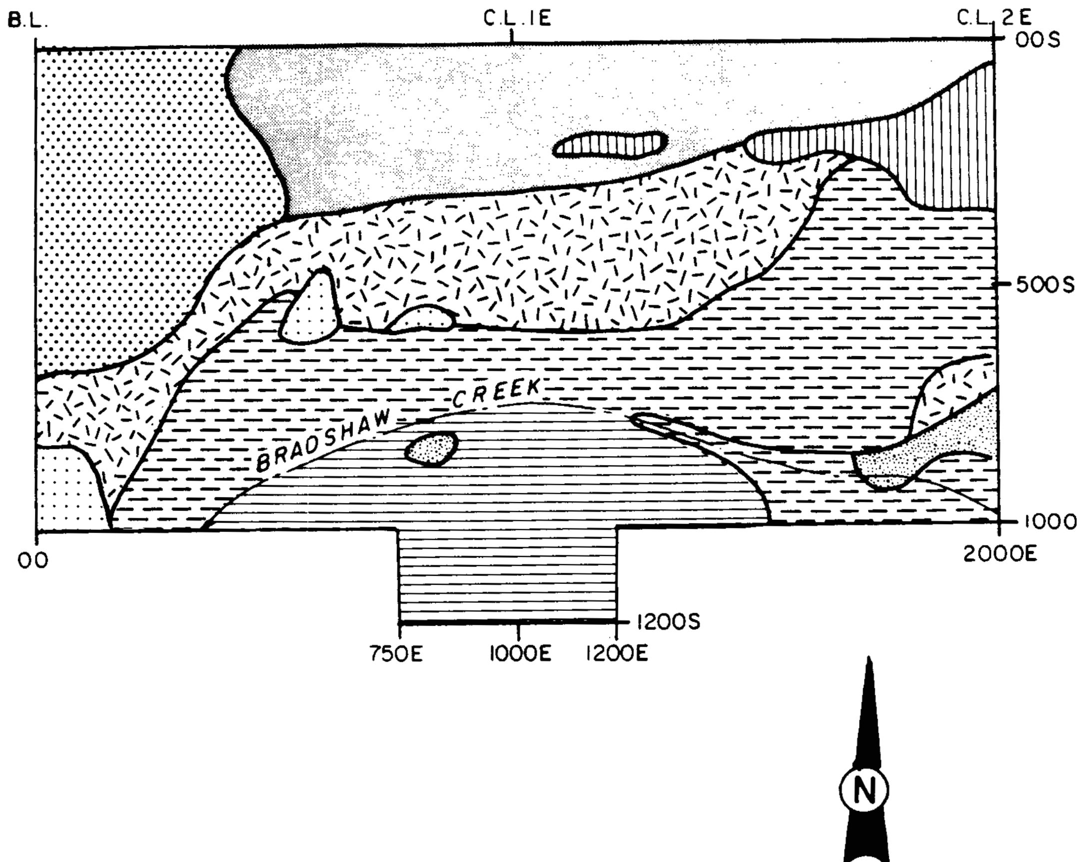
1) deposition of strata,
2) regional deformation,
3) intrusion of diorites and intermediate dykes, further deformation,
4) mobilization of fluids, dissolving sulphides and precious metals,
5) precipitation of sulphides and precious metals in structurally favorable zones.

PART D

SOIL AND VEGETATION SURVEYS

BY

ROBERT THOMSON, B.Sc.



LEGEND

- WET SPRUCE FOREST
- WILLOW GRASSLANDS + SWAMPS
- SPRUCE - BALSAM FOREST
- SUBAPLINE PARKLAND
- YOUNG PINE BURN
- BUCKBRUSH PINE FOREST
- SAGEBRUSH PRAIRIE
- ASPEN GROVES
- DOUGLAS - FIR PINE FOREST

SCALE 1:158,000

0 500 1000 METRES

To accompany report by Frank Di Spirito, B.A. Sc., P. Eng.

YUNIMAN PROJECT

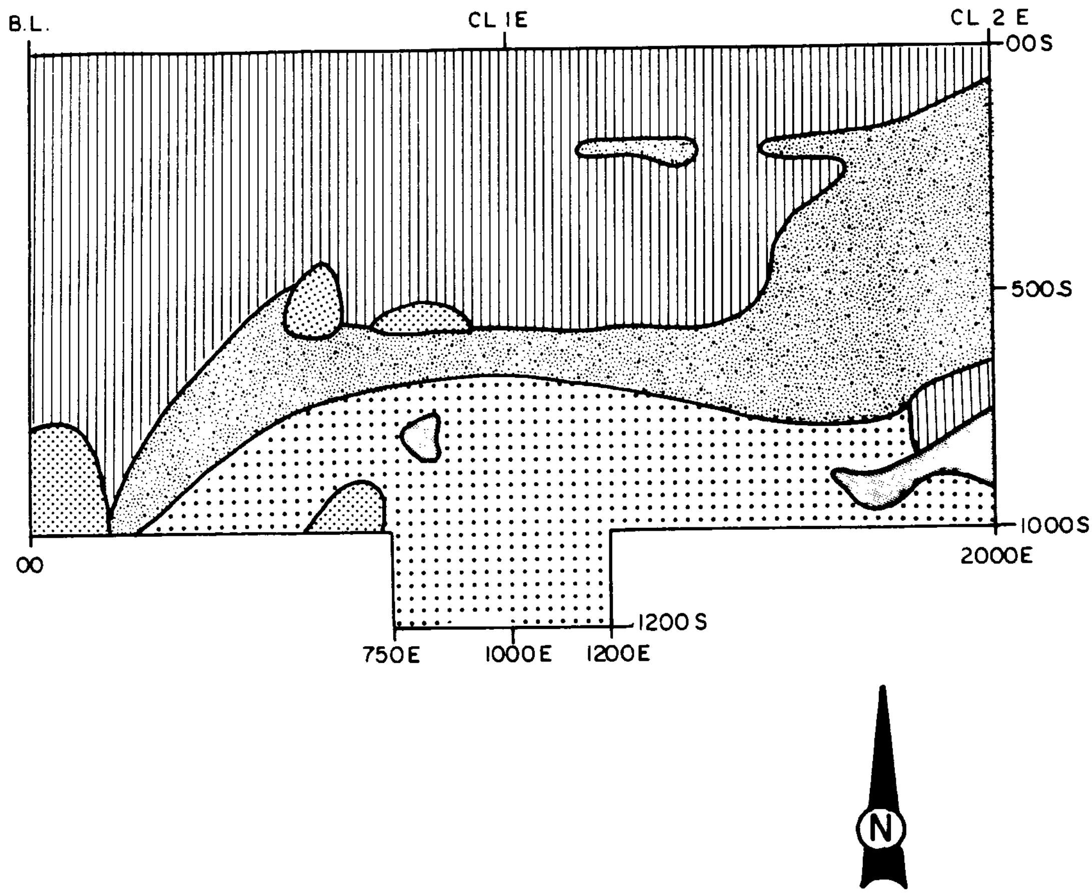
FOR: TOBY CREEK RESOURCES LTD.

BY: SHANGRI - LA MINERALS LIMITED

ECOSYSTEM UNITS MAP (YU GRID)

N.T.S. 82E-5W	DATE: NOV. 1985
DRAWN BY: R.T.	FIGURE Nº. A

CHONG



SCALE 1:158,000

0 500 1000 METRES

To accompany report by Frank Di Spirito, B.A.Sc, P. Eng.

LEGEND

- REGASOLS
- HUMIC GLEYSOLS
- DYSTRIC BRUNISOLS
- HUMO-FERRIC PODZOLS
- FERRO-HUMIC PODZOLS

YUNIMAN PROJECT	
FOR: TOBY CREEK RESOURCES LTD.	
BY: SHANGRI-LA MINERALS LIMITED	
SOILS MAP (YU GRID)	
N.T.S. 82E-5W	DATE: NOV. 1985
DRAWN BY: R.T.	FIGURE Nº. 8

CHONG

ENVIRONMENTAL DESCRIPTION OF
THE
YUNIMAN MINERAL CLAIMS
BY
ROBERT THOMSON, B.Sc.

PART D

The Yuniman mineral claims and their associated crown granted mineral rights occupy an area of diverse ecosystems. The climate is harsh and small changes in elevation have dramatic impacts on ecosystems and soil structure. This report outlines the ecosystem flora of the area, their associated soils, and the processes important to their formation.

i. Soils

The soils of this area have been formed through the repetitive action of ice prying pieces from the bedrock mainly. Most of the C soil horizons are colluvial. The glaciers have had their effect on soil formation by scraping the south aspects and ridgelines and plucking the north aspects. This scraping action has made the soils thin on the upper and mid slopes, however, most of the evidence of glaciation is in the valleys. Till is only present in the valley bottoms and the odd esker can be seen on the north-east part of the Yuniman claims.

Presently, the soils are undergoing a variety of processes. On the cooler, wetter slopes the effective precipitation is high and significant podzolisation is taking place. Podzols eluviate humified organic matter combined with aluminum and iron from its upper horizons and precipitates them lower down. These lower horizons are also undergoing breakdown by ice, roots, and burrowing animals as most of the other soils do.

On the drier south facing slopes, the effective precipitation is slight and the eluvation of iron and aluminum has not had the opportunity to develop. These soils (brunisols) have little structure. The upper horizons are well mixed and disturbed due to the effects of burrowing animals and cattle in the odd area where they congregate. Most of the brunisols on these claims have a tendancy to podzolisation but it is not well developed.

Regosols are occasional on the claims but give evidence of a very important soil forming process. These soils are very young and formed of virtualy nothing but colluvial material (fallen rock). They are evidence of the material that forms the C soil horizons on all soils except the very highest in elevation and the very lowest ones. Much of the soil has formed from rocks that fell from further up or were broken up in place by ice.

ii. Vegetation

The flora of this area is determined by two main environmental factors: the amount of available water and the length of the frost free growing season. South aspects are generally dominated by dry grasslands extensively grazed by cattle. Northerly aspects are dominated by spruce and balsam forests. The ridgelines, exposed to severe winters, freezing conditions, and winds tend to be subalpine parklands. The valley bottoms provide the only forests of any significance to forestry. Spruce, Douglas fir and pine forests dominate these areas.

A fairly significant portion of the Yuniman claims and crown grants was burnt about 1940. This area has been regenerated to a lodgepole pine forest which will eventually return to its original spruce-balsam composition.

The ecosystems are quite fragile. Even the dumps of one hundred year old prospect pits are still quite clean. The odd claim post of the same age is still standing. This is a consequence of the short growing season, the thin soils, and severe climate. Man's work remains for a long time.

iii Forest Ecosystem Units*

1 - Wet Spruce Forest

Dominant Vegetation - Englemann spruce (**Picea engelmannii**); Subalpine fir (balsam) (**Abies lasiocarpa**); Dwarf huckleberry and Grouseberry (**Vaccinnium caespitsum** and **scoparium**);

Soils - Deep ferro-humic podzols (FHP) on colluvium and glacial till up to 4 m total depth (usually 1.5 m total). Occasional esker. Thin mor humus form.

2 - Willow grasslands and swamps:

Dominant Vegetation - Willow (**Salix**) spp.), Indian hellebore (**Veratrum viride**), Valerian (**Valeriana sitchensis**), Mare's tails (**Equisetum pratense**), Sedges (**Carex**) spp.), **Sphagnum** spp.

Soils - Humic gleysols (o.HG and F.HG) 0.7 m to 2 m? deep on tills, colluvium, and alluvium. Sometimes several C horizons due to flooding. Mull humus form on Ah or Ap approximately 25 cm thick or thick organic horizons.

3 - Spruce - balsam forest

Dominant Vegetation - Engelman spruce (**P. engelmanii**), Subalpine fir (**A. lasiocarpa**), Dwarf huckleberry and grouseberry (**V. caespitosum** and **Scorparium**), Woodrush (**Luzula** spp.).

* see Figs. A and B for locations.

Soils - Humo-ferric podzols (HFP) 1 m to 1.5 m thick. Thin mor humus form. Colluvial parent material.

4 - Subalpine parkland:

Dominant vegetation - Whitebark pine (**Pinus albicaulus**), Engelmann spruce (**P. engelmannii**), grass species, Pussytoes (**Antennaria spp.**), Saxifrage (**Saxifraga** spp.)

Soils - Dystric brunisols up to 1 m thick, usually 0.2 m thick on colluvium. Thin mull humus form maintained by cattle.

5 - Young pine burn:

Dominant vegetation - Lodgepole pine (**Pinus contorta**), Pine grass (**Calamagrostis rubescens**), Juniper (**Juniperus communis**), Saskatoonberry (**Amelanchier alnifolia**).

Soils - Dystric brunisols (DB) and humo-ferric podzols (HFP) up to 1.5 m deep usually 0.5 m deep on thin colluvium. Thin mull and mor humus forms.

6 - Buckbrush pine forest:

Dominant vegetation - Lodgepole pine (**P. contorta**), rhododendron (**Rhododendron albiflorum**), Indian hellbore (**V. viride**), Nagoonberry (**Rubus acaulis**).

Soils - Ferro-humic podzols (FHP) usually 0.3 m deep on colluvium. Thin mor humus form. Regosols present in small patches.

7 - Sagebrush prairie:

Dominant vegetation - Sagebrush (**Artemesia trifida**), Douglas-fir (**Pseudotsuga menziesii**), Juniper (**J. communis**), Kinnick-kinnick (**Archtostaphylos uva-ursi**).

Soils - Dystric brunisols (DB) usually less than 0.3 m thick on colluvium or bedrock. Thin mull humus form and occasional moder.

8 - Aspen groves:

Dominant vegetation - Trembling aspen (**Populus tremuloides**), Pine grass (**C. rubescens**), Rose (**Rosa asicularis**) and **woodsia**).

soils - Orthic Regosols (O.R.), very thin on colluvium of unknown depth. Thin mor humus form.

9 - Douglas-fir pine forest:

Dominant vegetation - Douglas-fir (**P. menziesii**), Lodgepole pine (**P. contorta**), Pine grass (**C. rubescens**), Saskatoonberry (**A. alnifolia**), Avens (**Geum triflorum**), Juniper (**J. communis**)

Soils - Humo-ferric podzols (HFP) up to 1.5 m deep on colluvium and till (in valley bottoms).

* For more information about these ecosystems and land management see the B.C. Min. of Forests' publications on the Biogeoclimatic classification system (ESSFa subzone).

PART E

Discussion of Geochemistry Results

The soil geochemistry coverage of the Yuniman project, although still incomplete, has conclusively located widespread gold occurrences at surface.

Gold, silver and arsenic have been focused as prime indicators that could lead to the location of economic targets. Gold and arsenic are found in very anomalous concentrations and often display a close correlation. Silver is present in lesser amounts, revealing its relative scarcity, but yet displays a prevailing dispersion often closely associated to gold.

The geochemistry of the soil and rock specimens collected during this project suggest the following points:

1) Gold is most often associated with high arsenic concentrations. It is suspected that the gold and arsenic are syngenetic in most cases, with the latter likely being locked into the lattice work of the arsenopyrite crystals. This could be confirmed by polished section studies. In some isolated cases gold and arsenic do not correlate at all. A fair assumption would be that, in a perhaps separate pahse of mineral deposition and segregation, fluids carrying gold and little arsenic have allowed native gold to precipiate as fine particles. Visual identification of the latter has been made on several occasions at the fringe of arsenopyrite mineralization.

2) Silver is not expected to be an economic constituent of any deposit that could perhaps be located on the Yuniman ridge but yet remains an important pathfinder mineral because of its rather consistent correlation to gold.

3) Copper is seen to associate well with gold in both soil and rock

specimens. Chalcopyrite has been identified in numerous gold-bearing rocks.

In the soils, evidence of a copper halo effect is seen where gold geochemistry is very anomalous. This may suggest a paragenetic relationship that may become a useful tool in locating additional gold-bearing zones.

While over 2250 soil samples were collected at 25 meter centers, only 456 samples were selected for geochemical analysis. The rationale used was that areas known to be gold-bearing should be investigated for extensions, while additional grid lines extending across the property would help locate downhill dispersion of gold where overburden masks other occurrences.

Additionally several pits of up to 2 meters in depth were dug to examine the depth, origin, composition and age of the soils.

The major features observed were as follows:

1. The soils are generally young, thin, poorly developed and of collovial origin.

2. With the exception of the benches above Bradshaw Creek, where some rocks of unknown origin were seen, the property displays virtually no glacial debris.

3. Gold, silver, arsenic and copper display good dispersion patterns, and in all evidence appear to be found close to their origin.

4. Some of the dumps from the adits on the Black Pine and Bush Rat Crown grants must inevitably contaminate their respective localities, although from observation of the topography, it appears this effect is restricted to narrow zones which would certainly not account for

too much of the wide anomalies detected between stations 500E and 1000E. Although the anomalous values found in contaminated areas are not likely representative of the sub-surface, their location does not allow one to discount the merit of the area they cover.

5. Gold values are generally high throughout the property, suggesting an enrichment phenomenon or perhaps the presence of widespread trace gold amounts in the Triassic rocks present on the claims.

6. High arsenic values found on the Far West Crown grants, which is located on the south side of Bradshaw Creek, are not associated to anomalous gold concentrations. This implies a separate phase of mineral emplacement where iron and arsenic were isolated in the mineralized fluids.

Approximately 1800 soil samples are being kept in storage by Toby Creek Resources Ltd. It is recommended that the majority of these samples be analyzed in order to create a complete geochemical grid of the property. Statistical correlations could then be calculated, which may facilitate the determination of pathfinder elements and thus new zones of interest.

PART F DISCUSSION OF GEOPHYSICAL RESULTS

Magnetometer Survey

The magnetometer readings recorded over the Yuniman project area range between about 56,500 gammas and 60,300 gammas, a total variation of 3,800 gammas (Figure 5). The most pronounced magnetic response over the property appears in the southwest corner bounded to the north by Line Y700S. This zone is characterized by relatively high magnetic field readings and represents a specific rock unit which has been mapped as diorite (Figure 9). The contact with the Independence Formation is thus clearly defined. However, other isolated areas mapped as diorite do not show such a characteristic magnetic response, suggesting a possible difference in mineral constituents.

In general, intermediate dykes seem to be associated to narrow, linear magnetic highs in close proximity. Also, major contact zones correspond to linear trends of narrow magnetic highs in the order of 600 gammas and over a base value of 56,500 gammas. The source of the anomalous magnetic highs appear to be within 25 meters of surface and represent concentrations of mineral constituents with high magnetic susceptibilities.

Horizontal Loop Electromagnetic Survey

The HLEM results are shown on Figures 3 and 4. The positive peaks correspond to conductors while the negative responses relate to conductive overburden. It is apparent that the northwest and southeast areas of the property are masked by overburden effects (Figure 4). The data acquired at the lower frequency (Figure 3) are thus more representative of the conductors underlying the Yuniman project area.

In general, the conductors follow the northerly geologic trend.

Over much of the property, conductive zones comprised of a series of parallel conductors are apparent. The conductors most likely represent shear zones. The shear zones have been traced by the EM survey over a strike length which varies between 100 and 400 meters. The depth to the top of the source of the EM conductors outlined is less than 25 meters sub-surface. However, in the areas where negative values predominate, EM conductors may exist at depths greater than 25 meters.

Conductive zones, which most likely represent shear zones, correlating to anomalous gold geochemistry values are prime targets for further exploration.

CONCLUSIONS AND RECOMMENDATIONS

Gold mineralization underlies the Yuniman Project property. The geometry, total volume and grade charateristics of the mineralization need definition. Thus, additional exploration is necessary in order to better evaluate any economic potential. Initial target areas have been outlined during the exploration programs and a third phase of investigation is well justified.

A follow-up program consisting of the following work is recommended:

1. Geochemical analysis of additional soil samples to provide better coverage and resolution.

2. Trenching to expose or extend geological and geochemical targets.

3. Surveying of claim boundaries and geological features.

4. Diamond drill testing.

5. Advanced structural and petrological studies.

6. Access road improvement and construction.

A sum of $ 280,000.00 should be allocated to complete this program.

Respectfully submitted at Vancouver, B.C.

Frank DiSpirito, B.A.Sc., P.Eng.
15 November 1985.

PROPOSED EXPLORATION PROGRAM

It is recommended that a third phase of exploration be carried out in order to better define the economic potential of the target areas.

Budget

Test drilling, allow	$ 175,000.00
Trenching and road work, allow	30,000.00
Geological support, allow	15,000.00
Assays and geochem (including Phase II samples)	20,000.00
Engineering, project management and report	20,000.00
Logistics and contingencies, say	10,000.00
Surveying, allow	10,000.00
Total:	$ 280,000.00

Respectfully submitted at Vancouver, B.C.

Frank DiSpirito, B.A.Sc., P.Eng.
15 November 1985.

DRILL TARGETS AND RATIONALE

A review of the data compiled on the Yuniman project suggests two major economic targets.

1. **The Bush Rat Shear Zone**

The significant width, grade and strike length of this mineralized zone makes this the foremost target. In order to define its econmomic potential at depth, the following work should be conducted:

a) Trenching at 25 meter intervals for its entire strike length.

b) Drilling should be aimed to intersect the shear zone at depths of 25, 50 and 100 meters below grid co-ordinate 400S-812E and to repeat this procedure at 100 meter intervals along strike or as dictated by results.

2. **The Black Pine Veins**

The numerous gold-bearing and variably oriented veins found in proximity to intrusive rocks imply a potential stockwork target. To confirm this possibility, several drill holes should be aimed to intesect the planes bound by the following co-ordinates:

a) 425S
b) 475S
c) 625E
d) 675E

These planes should be intersected at depths of 100, 200, 300 and 400 meters below surface.

Half the holes should dip to the east and the others to the west. This would allow an investigation of rocks laterally adjacent to the target area.

It is suggested that a relatively large drill core diameter such as NQ be used. Larger core tends to be stronger and generally maximizes recovery. Detailed logs of recovery percentages, circulation losses and rock competence should be kept since structural features instrumental in the mineral deposition processes may be soft and friable.

The Bush Rat shear zone is characterized by weakly cemented rock fragments and appears to be very porous and permeable. This may not be the case at depth. Yet, to prevent problems that may arise if core drilling does not retrieve the sheared material properly, a contingent method such as rotary drilling should be available. While this technique does not lend itself to detailed structural and lithological studies, it does allow capture of fragmental material than can identify zones of interest when assayed.

A drilling fund reserve should be retained to test gold occurrences that may be exposed by further trenching. The geochemical anomaly centered at approximately 400S-1175 E may justify such a contingency.

REFERENCES

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APPENDIX 'A'

COST BREAKDOWN OF PHASE II PROGRAM

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COST BREAKDOWN OF PHASE II PROGRAM

Grid establishment	
1) Cut and picketed lines, 48 km @ $400/km	$ 19,200.00
2) Flagged lines, 27.6 km @ $45/km	1,272.00
Geochemical Sampling	
2250 samples @ $6.00/sample	13,500.00
Analytical Testing	
-456 soil samples @ $10.60/each	4,833.60
- 55 rock samples @ $14.25/each	783.75
- 19 fire assays @ $8.25/each	156.75
Magnetometer Survey	
-72.6 km @ $125.00/km	9,025.00
Horizontal Loop Electromagnetic Survey	
-45 km @ $350.00/km	15,750.00
Geological Support	
(N. Hulme, B.Sc., - 30 days @ $200/day)	6,000.00
Soil and Vegetation Survey	
(R. Thomson, B.Sc., 8 days @ $140.00/day	1,120.00
Trenching and Tunnel rehabilitation	
(260 cubic meters @ $50/$m^3$	13,000.00
Engineering and report preparation	5,000.00
Total:	$ 89,641.10

Respectfully submitted at Vancouver, B.C.

Frank Di Spirito, B.A.Sc., P.Eng.
15 November 1985.

APPENDIX 'B'

CERTIFICATES

a) Frank Di Spirito, B.A.Sc., P.Eng.
b) N. Hulme, B.Sc.
c) R. Thomson, B.Sc.

CERTIFICATE

I, Frank Di Spirito, of the City of Vancouver in the Province of British Columbia, do hereby certify:

That I am a Consulting Engineer with the firm of Shangri-La Minerals Ltd., based at 200-675 West Hastings Street, Vancouver, B.C., V6B 4Z1.

I further certify that:

I) I am a graduate of the University of British Columbia (1974) and hold a Bachelor of Applied Science in Geological Engineering.

II) I am a registered member, in good standing, of the Association of Professional Engineers of British Columbia.

III) Since graduation I have been involved in numerous mineral exploration programs throughout Canada and the United States of America.

IV) This report is based on a personal property examination conducted in August 1984 and July 1985 and on an evaluation of privately and publicly held data pertaining to the said property, as well as field data collected by Shangri-la staff.

V) I do not hold any direct or indirect interest in the properties described herein, nor do I expect to receive any.

VI) This report may be utilized by Toby Creek Resources Ltd. for inclusion in a Prospectus or Statement of Material Facts.

Respectfully submitted at Vancouver, B.C.

Frank Di Spirito, B.A.Sc., P.Eng.
15 November 1985

CERTIFICATE

I, Nigel J. Hulme, do hereby certify;

I) I am a Consulting Geologist with the firm of Shangri-La Minerals Limited at 200-675 West Hastings Street, Vancouver, B.C.

II) I graduated in 1982 from Carleton University, Ottawa, Ontario with Honours B.Sc., in geology.

III) I have been involved in mineral exploration since 1979.

IV) This report is based on field work carried out by this author and Shangri-La Minerals Limited's staff during September 1984 as well as the period from July 25 to October 4, 1985.

V) I hold no direct interest or indirect interest in the property or in any securities of Toby Creek Resources Ltd., nor do I expect to receive any.

VI) This report may be utilized by Toby Creek Resources Ltd. for inclusion in a Prospectus or Statement of Material Facts.

Respectfully submitted at Vancouver, B.C.

Nigel Hulme

Nigel J. Hulme, B.Sc.
15 November 1985.

CERTIFICATE

I, **Robert Thomson**, of the City of Rossland in the Province of British Columbia, do hereby certify:

That I am a Consulting Forester with the firm of Shangri-La Minerals Ltd., 200-675 West Hastings Street, Vancouver, British Columbia, V6B 4Z1.

I further certify:

1. That I am a graduate of the University of British Columbia (1985) and hold a Bachelor of Science in Forest Biology (Faculty of Forestry).

2. That since 1980 I have been involved in numerous mineral exploration programs throughout Canada.

3. That this report is based on personal visits of the Yuniman Crown Grants and Old Diggs claim in September and October 1985.

4. That I have no direct or indirect interest in the property described herein, or in Toby Creek Resources Ltd., nor do I expect to receive any.

5. That this report may be utilized by Toby Creek Resources Ltd. in a Prospectus or Statement of Material Facts.

Respectfully submitted at Vancouver, B.C.

Robert Thomson

Robert Thomson, B.Sc., Forest Biology
11 October 1985

APPENDIX 'C'

SAMPLE DESCRIPTIONS AND ANALYTICAL RESULTS

APPENDIX 'C'

SAMPLE DESCRIPTIONS AND ANALYTICAL RESULTS
SAMPLE DESCRIPTIONS

SAMPLE	LOCATION	DESCRIPTION
Y1	Adit 1 Portal	West side of shear zone. Chip sample over 50 cm. Quartz diorite.
Y2	Adit 1 Portal	Chip sample of 2 meter wide shear zone in quartz diorite. Includes 3 cm wide quartz vein.
Y3	Adit 1 Portal	East side of shear zone. Chip sample over 50 cm. Quartz diorite.
Y4	Adit 1	Intersection of 2 fractures, 2.8 m from adit portal. Gouge and minor quartz.
Y5	Adit 1	Mid-roof 2.8 from adit portal. Fracture varying from 5 to 10 cm wide in quartz diorite.
Y6	Adit 1	6 cm wide quartz vein adjacent to west wall of adit, 4.4 m from portal. Brecciated, contains small vugs. Inclusions of pale green quartz diorite. Contains granular arsenopyrite, also galena and sphalerite.
Y7	Adit 1	Base of east wall of adit, 4.4 m from portal. Leached quartz diorite, now resembles quartz feldspar porphyry. Fresh surface grey to pale green, weathers yellow-brown. Disseminated arsenopyrite, pyrite, very small amount of galena.
Y8	Aidt 1	East wall of adit, 6.3 m from portal. Quartz diorite, <1% pyrrhotite.
Y9	Adit 1	15 cm wide brecciated quartz vein 15 m. from adit portal. Carbonate stringers 1-2 mm wide. Up to 5% sulphides- pyrite, arsenopyrite, galena, sphalerite.
Y10	Adit 1	Intersection of 2 fractures 50 cm along east branch of Aidt 1. Carbonate stringers 1 mm wide. Disseminated pyrite, arsenopyrite.
Y11	Adit 1	South wall of adit, 2.4 m along east branch of Adit 1. Pale green quartz diorite. Slightly carbonatized, disseminated pyrite.
Y12	Adit 1	Quartz vein, 9.6 m along east branch of Adit 1. 3-5 cm wide, contains small amount carbonate, pyrite.
Y13	Adit 1	South wall of adit, 10 m along east branch. Pale green quartz diorite, 5-10% pyrite, arsenopyrite.

Y14	Adit 1	Roof of adit, 10.6 m along east branch. Dark grey-green quartz diorite. Small amount carbonate, pyrite up to 15% on fracture surfaces.
Y15	Adit 1	Base of north wall of adit, 14.8 m along east branch. Dark green quartz diorite. Carbonatized, up to 20% pyrite on fracture surfaces.
Y16	Adit 1	End of east branch. Dark grey quartz diorite. Up to 25% pyrite on fracture surfaces, small amount carbonate.
Y17	Adit 1	End of main tunnel. Dark grey-green quartz diorite. Small amount carbonate, <2% pyrite.
Y18	Adit 4	Quartz vein, 1-8 cm wide, wide beginning of west crosscut. Sampled over length of vein. Pyrite, arsenopyrite.
Y19	Adit 4	1 m inside west crosscut. Quartz vein, 1-2 cm wide. Clots and streaks of pyrite, pyrrhotite, arsenopyrite. Sampled over length of vein.
Y20	Aidt 4	Quartz vein, 2-6 cm wide, 3.7 m inside west crosscut. Contains small clots and streaks of pyrite. Arsenopyrite follows edges of wallrock inclusions.
Y21	Adit 4	Quartz vein 1-20 cm wide, main vein splits into several branches. 6.8 m inside west crosscut. Pyrite, arsenopyrite up to 10%. Sampled over length of vein.
Y22	Adit 4	Quartz vein, 1 cm wide. 15 m inside west crosscut. Contains up to 15% massive, slightly crystalline arsenopyrite, also pyrite. Sampled over length of vein.
Y23	Adit 4	Chip sample over 60 cm of 2 cm quartz vein and oxidized rock. 5 m inside main drift. Dark, rusty stains, vuggy quartz. Small clots of pyrite, arsenopyrite.
Y24	Adit 4	Quartz vein, 1-2 cm wide. 18.2 m inside main drift. Truncated to north by small fault. Contains pyrite, pyrrhotite, arsenopyrite, and small amount magnetite and chalcopyrite.
Y25	Trenches at 620S 125E	Quartz vein, 1-7 m wide, Contains abundant arsenopyrite. Sampled over

		length of vein.
Y26	Trenches at 620 125E	Greenstone in south trench. Fresh surface dark green, weathers rusty brown, displays FeMnO stains. Contains disseminated pyrrhotite.
Y27	Pit at LY400S 812 E	Grab sample, bottom southwest corner. Fine grained quartz diorite, contains disseminated pyrite, arsenopyrite.
Y28	Pit a LY400S 812 E	Chip sample over 90 cm, bottom of pit. Across shear zone in quartz diorite.
Y29	Pit at LY400S 812E	Chip smple over 1 m, top pf pit, east side. Shear zone and south wallrock. Contains disseminated pyrite and arsenopyrite.
Y30	Trench 13 m south of LY400S, 706E	Chip sample over 1 m, north end of trench. Green siliceous sugary quartz. Up to 5% pyrite, pyrrhotite.
Y31	Trench 15 m north at LY50S, 1470E	Trench rubble. Light grey vitreous chert, also greenstone.
Y32	5 m north of LY275S, 1105E	Fault gouge, 10 cm wide.
Y33	LY255S, 1105E	Chip sample across 1 m wide shear zone in argillite and grey chert.
Y34	Trench 18 m south of LY1000S, 948E	East wallrock of small shear. Grey and green chert. Disseminated pyrite, pyrrhotite, and arsenopyrite.
Y35	Trench 18 m south of LY1000S,m 948E	Chip sample of 10 cm wide shear in chert. Disseminated pyrite, pyrrhotite, and arsenopyrite.
Y36	Trench, 18 m south of LY1000S, 948E	West wallrock of shear over 1.2 m. Grey chert. Contains disseminated pyrite, pyrrhotite, arsenopyrite. Also arsenopyrite crystals 1-2 mm in size.

SAMPLES Y37 - Y50 ARE FROM TRENCHES IN VICINITY OF LY450S, 625E

Y37	Main trench	Chip sample over 3 m, 6 m to west of LY450S, 625E. Carbonatized basalts and argillaceous rock. Stained red. Includes two quartz veins, 1 cm wide.
Y38	Main trench	Chip sample, over 50 cm, west side of quartz vein. Vein located at intersection of main trench and

		cross trench. Greenstone.
Y39	Main trench	Chip sample, over 7 cm wide quartz vein. Vein located at intersection of main trench and cross trench. Contains discontinuous streaks of arsenopyrite.
Y40	Main trench	Chip sample, over 50 cm, east side of quartz vein. Vein located at intersection of maintrench and cross trench. Greenstone, disseminated pyrite, arsenopyrite.
Y41	Main trench	Chip sample, over 2 m. Rusty stained greenstone with minor pyrite and pyrrhotite.
Y42	Main trench	Chip sample over 2 cm wide quartz vein, located at LY450S, 650E. Vuggy,contains <19% pyrite, manganese coatings in vug.
Y43	Main trench	Chip sample over 2 cm wide quartz vein, located 11 m east of LY450S, 650E. Appears barren.
Y44	Main trench	Chip sample, over 2.7 m, of silicic dyke, 14 m east of LY450S, 650E. Contains <1% pyrite.
Y45	Cross trench	Chip sample of 8 cm wide quartz vein. Same veins Y39. Massive arsenopyrite, also crystals up to 4 mm. Lesser amount pyrite.
Y46	Cross trench	Chip sample of 8 cm wide quartz vein, adjacent to plagioclase porphyry dyke. May intersect quartz vein of Y45. Contains granular streaks of arsenopyrite up to 1 cm wide.
Y47	Small trench to south of main trench	Chip sample, over 3 m, west end of trench. Greenstone, argillaceous rock.
Y48	Small trench to south of main trench	Chip sample over 8 cm wide quartz vein. Small amount of arsenopyrite.
Y49	Small trench to south of main trench	Chip sample, over 50 cm. Includes thre quartz veins, 2-3 cm wide. Small amount of arsenopyrite.
Y50	Small trench 18 m north and 7 m west of LY400S, 650E	Chip sample over 3-6 cm wide quartz vein, located near middle of trench. Contains clots and streaks of pyrite and pyrrhotite. Minor arsenopyrite.

Y51	Adit 4	Chip sample across 20-40 cm wide quartz vein located in small side cut 16.5 m from adit portal. Contains carbonate, pyrite, pyrrhotite, arsenopyrite.
Y52	Adit 4	Chip sample, over 40 cm of wallrock to east of Y51. Lightly carbonatized greenstone, <1% py.
Y53	Trench at LY475S 620E	Greenstone, lightly carbonatized, siliceous, contains pyrite, arsenopyrite. 1 meter wide.
Y54	Adit 2	Chip sample over 5 cm wide quartz vein, adit portal. Contains pyrite, arsenopyrite.
Y55	LY950S, 750E	Float. Greenstone, <1% pyrite, pyrrhotite.

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au** PPB
BR-1	9	40	2824	737	27.8	2	2	16	4.97	1350	5	27	4	10	10	12	2	3	.01	.01	2	2	.01	14	.01	4	.18	.01	.15	1	42000
BR-2	3	28	1241	125	18.4	1	1	19	1.97	665	5	20	4	14	1	9	2	2	.02	.02	2	1	.01	127	.01	3	.21	.02	.18	1	32200
BR-3	15	44	2670	2047	41.7	2	2	15	3.93	1475	5	51	6	4	29	17	2	2	.01	.02	2	1	.01	23	.01	3	.17	.01	.13	1	41100
BR-4	10	26	4573	572	69.4	1	1	15	3.50	1110	5	88	3	12	8	18	2	2	.01	.02	2	2	.01	21	.01	2	.16	.01	.18	1	67300
BR-5	5	30	1899	613	33.0	1	1	17	2.61	997	5	24	2	10	9	19	4	3	.01	.02	2	1	.01	25	.01	2	.20	.02	.17	1	29100
BR-6	16	97	908	8792	10.7	3	5	201	3.53	800	7	7	5	11	90	7	3	3	.34	.03	2	1	.13	39	.01	3	.24	.01	.15	4	15600
BR-7	11	103	12544	1793	129.7	1	2	17	13.25	2761	5	55	4	17	26	67	2	2	.01	.01	12	1	.01	4	.01	12	.14	.01	.12	1	93200
BP-1	1	447	47	75	2.0	41	25	55	3.73	19875	5	ND	1	2	1	7	8	6	.02	.02	2	4	.07	13	.01	2	.14	.01	.04	1	4300
BP-2	6	53	1943	1409	30.6	2	2	14	4.00	2025	5	35	2	3	19	11	2	2	.02	.04	2	1	.01	22	.01	3	.21	.01	.16	1	29300
STD C/FA-AU	20	58	41	134	7.1	69	27	1158	3.83	40	16	6	39	51	18	15	22	58	.48	.14	37	61	.83	179	.08	41	1.71	.06	.12	12	52

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Au** OZ/T
Y-37	6	238	19	66	.8	54	32	910	6.37	2769	5	2	1	18	1	2	2	120	.82	.06	2	171	2.85	85	.17	5	2.74	.09	.32	1	1150	-
Y-38	3	159	8	45	.3	44	29	708	4.78	515	5	ND	1	30	1	2	2	110	1.14	.06	2	134	2.06	72	.16	4	2.36	.17	.26	1	32	-
Y-39	6	355	11	15	1.6	9	45	81	7.83	25015	5	2	1	5	1	2	43	21	.05	.02	2	23	.17	24	.03	4	.24	.01	.06	1	3150	.098
Y-40	1	175	10	45	.3	56	26	819	4.69	111	5	ND	1	19	1	2	2	115	.99	.06	2	138	2.21	73	.22	2	2.15	.13	.25	1	16	-
Y-41	3	569	13	32	.6	59	48	429	8.55	143	5	ND	1	24	1	2	2	146	.95	.09	3	148	.97	27	.28	3	2.05	.16	.08	1	26	-
Y-42	3	107	8	16	.4	11	6	194	3.25	229	5	ND	1	7	1	2	203	45	.18	.03	2	48	.56	83	.13	2	.68	.02	.18	1	125	-
Y-43	18	440	23	47	1.4	38	24	481	15.19	258	5	ND	2	21	1	2	2	158	.27	.05	38	184	2.14	187	.16	2	2.77	.01	.32	1	120	-
Y-44	3	21	7	81	.1	8	9	971	4.18	21	5	ND	3	32	1	2	2	36	1.42	.15	17	1	.93	228	.01	4	1.78	.04	.12	1	3	-
Y-45	1	993	14	32	24.1	35	44	320	7.53	25864	5	280	1	4	1	2	61	61	.18	.04	2	80	.87	15	.01	2	.95	.01	.03	1	76400	2.100
Y-46	14	173	21	14	5.8	4	23	40	17.45	20587	5	7	2	9	1	47	29	5	.03	.02	11	6	.03	6	.01	2	.08	.01	.02	1	4600	.151
Y-47	5	164	10	67	.7	54	29	1340	6.79	575	5	ND	1	29	1	2	2	164	.86	.08	11	133	2.91	132	.09	4	2.81	.07	.36	3	65	-
Y-48	1	16	3	4	.2	4	2	217	.79	1440	5	ND	1	2	1	2	2	4	.05	.01	2	6	.09	6	.01	2	.11	.01	.02	1	60	-
Y-49	4	135	10	45	.6	19	10	415	6.57	1535	5	ND	1	5	1	2	53	111	.07	.05	2	132	2.17	53	.01	3	2.01	.02	.03	1	485	-
Y-50	1	278	7	14	.5	19	21	126	2.65	770	5	ND	1	2	1	2	312	18	.18	.01	2	19	.21	7	.03	2	.23	.01	.02	23	190	-
Y-51	6	351	5	17	1.0	15	37	560	3.91	685	5	2	1	28	1	2	66	15	2.64	.01	2	18	.66	23	.01	4	.27	.01	.01	1	6800	.191
Y-52	6	219	9	48	.4	47	25	989	5.66	961	5	ND	2	47	1	2	2	135	3.89	.04	5	160	2.41	108	.18	3	2.39	.12	.56	1	2500	.091
Y-53	14	725	18	55	.8	52	72	1019	11.58	154	5	8	3	23	1	4	213	91	2.18	.38	17	62	2.28	19	.06	2	2.57	.02	.04	5	13800	.339
Y-54	2	202	19	62	2.2	23	16	348	3.30	11138	5	4	1	3	1	2	58	6	.07	.02	2	5	.07	28	.01	3	.15	.01	.03	1	11700	.423
Y-55	6	47	53	100	.3	26	25	973	4.78	69	5	ND	2	72	1	2	2	68	1.16	.12	2	23	.98	97	.23	2	2.26	.21	.04	1	29	-
STD C/AU-0.5	21	59	39	138	6.9	65	27	1166	3.96	41	18	7	33	47	17	15	22	60	.48	.15	38	59	.88	172	.08	38	1.72	.06	.11	14	510	-

As upper limit 20,000 ppm.

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Au** OZ/T
Y-1	1	127	16	135	.4	4	8	671	2.77	77	5	ND	3	7	2	2	2	36	.23	.07	9	10	.80	58	.01	6	1.16	.03	.08	1	41	-
Y-2	1	89	16	159	.6	4	8	480	2.50	117	5	ND	4	7	1	2	2	34	.18	.07	11	9	.68	59	.01	7	1.05	.03	.08	1	90	-
Y-3	1	82	6	101	.1	4	7	402	2.56	80	5	ND	3	12	2	2	2	38	.28	.07	7	12	.79	114	.01	6	1.15	.05	.06	1	17	-
Y-4	1	14	24	242	.1	4	4	661	1.46	309	5	ND	3	6	4	2	2	16	.20	.08	13	6	.38	54	.01	5	.68	.02	.12	1	290	-
Y-5	1	80	9	96	.4	4	6	361	2.95	158	5	ND	3	14	1	4	2	27	.42	.07	7	7	.63	42	.01	7	1.00	.03	.09	1	135	-
Y-6	1	161	2713	2404	14.9	3	6	367	3.19	713	5	2	2	50	36	8	2	3	1.03	.05	3	1	.33	33	.01	7	.20	.02	.11	1	1650	.035
Y-7	1	154	271	987	3.3	4	5	186	2.61	518	5	ND	2	29	13	4	2	9	.65	.06	2	3	.30	29	.01	7	.42	.03	.10	1	860	-
Y-8	1	38	15	29	.2	4	6	337	2.52	13	5	ND	3	21	1	2	2	43	1.05	.06	5	11	.76	86	.07	5	1.16	.06	.18	1	12	-
Y-9	11	112	1150	2262	21.1	2	4	812	4.22	1061	5	7	2	42	38	16	2	3	1.57	.04	5	2	.29	14	.01	6	.18	.01	.09	1	7920	.277
Y-10	1	67	94	158	2.0	3	7	930	2.71	1457	5	ND	3	54	2	3	2	11	2.37	.07	9	3	.41	41	.01	6	.51	.01	.11	1	1210	-
Y-11	1	68	36	122	1.2	4	5	742	2.36	116	5	ND	3	69	2	2	2	13	2.30	.07	9	4	.71	42	.01	6	.49	.02	.10	1	270	-
Y-12	1	15	5	19	.2	5	4	316	1.07	46	5	ND	2	42	1	2	2	18	2.81	.03	4	4	.35	15	.01	2	.43	.02	.04	1	785	-
Y-13	1	63	11	46	1.6	4	6	331	2.17	3408	5	2	2	82	1	10	2	4	2.00	.07	6	2	.53	34	.01	5	.21	.02	.10	2	2230	.071
Y-14	1	27	7	22	.2	4	6	441	2.83	21	5	ND	4	28	1	2	2	45	1.09	.07	6	13	.79	157	.06	4	1.26	.09	.20	2	30	-
Y-15	2	100	3	17	.1	4	5	295	2.70	17	5	ND	3	25	1	2	2	40	1.59	.07	9	9	.76	53	.01	3	1.19	.06	.05	1	16	-
Y-16	1	28	3	16	.1	3	5	328	2.92	14	5	ND	4	31	1	2	2	46	1.27	.07	8	12	.80	123	.04	5	1.28	.07	.18	1	12	-
Y-17	1	87	7	53	.4	3	7	645	2.98	222	5	ND	4	57	1	2	2	54	3.00	.08	11	8	.90	37	.01	5	1.24	.04	.06	1	29	-
Y-18	4	750	8	27	10.5	106	91	544	9.17	185	5	142	2	18	1	2	205	39	1.69	.03	25	44	.77	8	.07	4	.88	.07	.05	5	70100	1.760
Y-19	2	715	8	26	.7	48	51	460	5.90	230	5	2	1	21	1	2	37	37	1.82	.03	8	45	.96	17	.06	5	.87	.04	.05	1	2890	.092
Y-20	1	284	8	46	.6	33	21	1396	4.87	4027	5	2	4	77	1	3	6	71	11.31	.02	21	87	1.72	26	.01	4	1.51	.01	.01	2	3720	.100
Y-21	1	243	9	34	1.1	29	27	767	5.65	12413	5	2	3	40	1	2	2	61	4.35	.02	16	67	1.61	18	.02	2	1.17	.01	.04	2	1990	.069
Y-22	6	786	16	42	2.9	45	72	1753	9.11	21893	5	4	4	64	1	15	8	48	13.84	.03	43	46	1.14	7	.01	2	.97	.01	.01	1	4120	.119
Y-23	1	186	64	57	3.5	32	20	959	3.91	4984	5	ND	1	15	1	2	46	60	.58	.05	2	59	1.10	72	.04	4	1.03	.03	.18	1	1120	-
Y-24	6	1055	13	39	5.9	89	114	1309	14.68	6248	5	31	2	44	1	8	32	25	4.79	.03	62	20	.73	7	.01	2	.44	.01	.01	1	31200	.870
Y-25	2	81	8	19	.7	5	26	89	6.59	21875	5	2	2	22	1	20	5	11	.04	.03	2	5	.07	14	.01	5	.27	.01	.05	1	2990	.076
Y-26	1	120	14	150	.3	25	13	1552	6.51	253	5	ND	1	70	1	2	2	223	.48	.14	14	21	2.80	75	.22	4	3.72	.11	.47	1	50	-
Y-27	1	43	330	904	3.5	4	6	374	2.76	484	5	ND	2	18	12	6	2	4	.42	.06	2	1	.13	32	.01	6	.23	.01	.12	1	1210	-
Y-28	2	143	829	465	8.3	4	8	341	3.65	2140	5	6	2	9	5	7	2	5	.15	.07	2	3	.05	81	.01	5	.29	.01	.12	1	10600	.215
Y-29	4	45	836	311	24.5	3	2	78	3.62	1433	5	29	1	16	3	11	2	4	.04	.05	2	2	.02	49	.01	5	.23	.02	.12	1	12100	.860 X
Y-30	1	126	16	32	.4	25	11	551	3.29	794	5	ND	2	8	1	2	2	53	.14	.07	2	42	.91	171	.07	3	1.12	.03	.29	1	420	-
Y-31	6	43	53	19	4.4	3	1	158	.72	120	5	ND	1	1	1	10	3	3	.01	.01	2	5	.02	25	.01	2	.06	.01	.03	1	130	-
Y-32	9	86	110	165	3.4	30	9	3412	7.21	428	5	ND	4	8	3	9	2	20	.05	.06	16	12	.10	401	.01	6	.44	.01	.10	1	695	-
Y-33	13	91	39	486	1.5	77	19	4748	6.56	267	5	ND	3	14	6	11	2	42	.21	.17	20	54	.55	635	.01	10	1.11	.01	.13	1	590	-
Y-34	1	34	13	23	.8	5	1	362	2.72	696	5	ND	2	6	1	2	2	17	.02	.04	6	19	.29	51	.01	4	.58	.01	.06	1	95	-
Y-35	2	59	21	54	1.9	23	14	652	6.34	9206	5	ND	2	14	1	13	2	32	.10	.24	17	52	.91	68	.01	3	1.82	.01	.13	1	120	-
Y-36	1	54	14	36	.2	16	7	618	2.50	2465	5	ND	2	10	1	2	2	18	.16	.07	2	14	.49	117	.03	3	.94	.03	.22	1	105	-
STD C/AU-0.5	22	59	41	137	7.0	66	28	1192	3.97	39	17	7	33	48	18	15	22	58	.48	.15	40	58	.88	174	.08	38	1.72	.06	.10	13	525	-

As upper limit 20,000 ppm.

X nugget effect evident

LACANA

LACANA MINING CORPORATION

MEMORANDUM

TO: MARCO ROMERO

DATE: OCTOBER 29,1985

FROM: DARREL JOHNSON

C.C.

SUBJECT:

C.C.

C.C.

Just received these sample results today. All are from the trenches in the vicinity of the old workings N.W. of Bradshaw Creek. Details as to sample type and locations are as follows:

2433 - Lowest trench, west end, sheared basic volcanic with pyrite .5 m.

2434 - Same location as 2433 - Quartz vein with heavy arsenopyrite about 3" (8 cm) wide.

2435 - Same trench, east of vein, sheared volcanics with pyrite, .7 m. This sample was re-assayed twice by Acme, from the reject, as they suggested contamination from #2434. Correct value is .004 oz/ton Au.

2436 - Next trench up hill, east end. Fine grained siliceous rock, adjacent to intrusive-grab-no dimension.

2437 - Same trench, further west. Broken pyritic section with quartz veins, 060°.

2438
2439 - Continuation of 2437. Total length ~ 6 m

2440 - Second trench up hill. Quartz vein, 2' wide, trending 060°

2441 - Hand trench S.E. of backhoe trenches. Shear zone 1 meter.

2442 - Hanging wall

2443 - Foot wall.

Darrel

ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK CHIPS AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE. AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: OCT 18 1985 DATE REPORT MAILED: Oct 28/85 ASSAYER. D. Toye. DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

LACANA MINING PROJECT - 7102 FILE # 85-2852 PAGE 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB	Au OZ/T	
2433	2	453	2	33	.1	46	48	512	6.79	186	5	ND	1	15	1	2	2	108	1.01	.07	5	106	1.09	26	.34	4	1.59	.11	.05	1	34	-	
2435	2	144	14	73	1.6	74	38	1662	7.74	586	5	ND	1	18	1	8	2	187	.33	.05	7	239	3.97	83	.06	9	3.54	.04	.12	1	1020	.032	×
2436	2	109	264	31	.8	21	14	638	3.43	149	5	ND	1	20	1	14	2	62	.44	.06	7	28	.93	110	.06	4	1.27	.06	.17	1	210	-	
2437	9	87	6	20	1.3	19	10	584	2.30	480	5	ND	2	9	1	3	2	20	.12	.05	9	10	.24	79	.01	9	.44	.01	.09	1	105	-	
2438	11	334	5	35	1.8	41	26	673	4.94	410	5	ND	1	13	1	4	4	47	.18	.07	10	47	.82	133	.07	8	1.17	.03	.32	1	65	-	
2439	3	282	7	43	.4	74	31	623	7.32	145	5	ND	1	23	1	2	2	76	.40	.15	15	103	2.00	128	.27	5	2.90	.07	1.13	1	27	-	
2440	2	104	4	16	.3	27	11	338	2.31	536	5	ND	1	6	1	2	5	21	.08	.05	7	21	.36	82	.01	2	.55	.01	.09	1	1900	.082	
2441	3	133	573	293	21.1	5	10	221	2.45	1329	5	37	1	9	2	5	2	5	.10	.06	9	5	.04	99	.01	6	.35	.01	.16	1	44300	1.560	
2442	1	64	8	34	.3	7	7	269	2.58	67	5	ND	3	16	1	2	2	39	.34	.07	8	14	.73	80	.01	7	1.18	.06	.09	1	95	-	
2443	1	72	43	222	.6	7	9	284	2.54	121	5	ND	2	12	2	3	2	38	.27	.07	8	12	.69	103	.01	5	1.10	.04	.11	1	215	-	
STD C/AU-0.5	20	61	41	138	7.4	67	30	1201	3.95	38	18	8	35	49	18	15	21	58	.48	.15	39	58	.88	182	.08	41	1.72	.06	.11	11	490	-	

× possible cross-contamination from # 2434 - 7.360 oz/t Au

ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

ASSAY CERTIFICATE

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK CHIPS AU# ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: OCT 18 1985 DATE REPORT MAILED: Oct 28/85 ASSAYER. D. Toye. DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

LACANA MINING PROJECT - 7102 FILE # 85-2852A

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au OZ/T
2434	1	461	14	30	6.1	8	25	138	9.89	26947 ✓	5	55	1	11	1	10	83	27	.04	.02	4	36	.33	10	.01	2	.42	.01	.02	1	7.360

✓ Assay required for correct result

Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

212 Brooksbank Ave.
North Vancouver, B.C.
Canada V7J 2C1
Phone: (604) 984-0221
Telex: 043-52597

CERTIFICATE OF ASSAY

TO : NEWMONT EXPLORATION OF CANADA LTD.

900 - 808 W. HASTINGS ST.
VANCOUVER, B.C.
V6C 3A4

ATTN: GERRY DELANE

CERT. # : A8517466-001-A
INVOICE # : I8517466
DATE : 25-OCT-85
P.O. # : NONE
120

[illegible] CREEK [illegible] YUNIMAN PROP[illegible]
& SIEMONT RESOURCES - APEX MTN PROPERTY
[illegible] VALLEY AREA

Sample description		Prep code	Ag oz/T	Au oz/T				
10505	Star of Hope property of Echo Mtn Resources (10505–10513)	207	8.39	1.032	--	--	--	--
10506		207	0.31	0.078	--	--	--	--
10507		207	0.03	0.004	--	--	--	--
10508		207	0.05	0.004	--	--	--	--
10509		207	0.83	0.110	--	--	--	--
10510		207	0.11	0.026	--	--	--	--
10511		207	0.05	0.014	--	--	--	--
10512		207	0.09	0.018	--	--	--	--
10513		207	0.10	0.014	--	--	--	--
10514	Toby Creek Yuniman property C. Grants (10514–10518)	207	0.01	0.020	--	--	--	--
10515		207	0.39	0.082	--	--	--	--
10516		207	1.22	0.816	--	--	--	--
10517		207	0.30	0.096	--	--	--	--
10518		207	0.14	0.028	--	--	--	--
10519	Siemont Resources	207	0.09	0.004	--	--	--	--

10505 - grab containing specularite from dump - 40' deep shaft sunk on 14" qtz vein in intensely sheared, vuggy, skarny rx - intense FeO.
06 - 15" chip from 10" qtz vein + adjacent skarn(?) rx - 8m. N of shaft above
07 - grab from outcrop, cherty, adjacent to qtz vein.
08 - grab from outcrop of sheared dark, earthy-looking rx with dissem. py.
09 - upper trench, near 415S + 425E on cliff face; 1.3 ft chip from sheared lt. gray siliceous rock. - 0-1.3'N
10510 - upper trench - same as 10509 - 2.7' chip from 1.3'-4.0'N., sheared, siliceous
11 - upper trench - same as 10509 - 2.0' chip from 4.0'-6.0'N, sheared
12 - lower trench on cliff face, 1m chip from 0-1m N. sheared siliceous, pyritic
13 - lower trench, same as 10512, 1m chip from 1-2m N, - sheared, siliceous, pyritic
14 - grab from trench rubble, near 400N, 900E, sheared, siliceous argillite (?), FeO
15 - 20' deep trench, shaft above #1 adit, grab from pit wall, bleached, siliceous rx, specularite ~~bleached~~
16 - same pit as 10515 - a grab from rubble, siliceous, pyritic rock with arsenopyrite
17 - grab from trench outcrop - bands of arsenopyrite.
18 - bleached feldspar porphyry in old trench above adit driven on shear; a grab.
519 - grab from dump at old adit, massive pyrrhotite in intense gossan with ~~at~~ visual dimensions estimated 125' x 50' at least.

VOI rev 4/85

RECEIVED
OCT 25 1985

[signature]
Registered Assayer, Province of British Columbia

ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOILS -80 MESH AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.
P14,15 - ROCKS

DATE RECEIVED: NOV 4 1985 DATE REPORT MAILED: Nov. 8/85 ASSAYER. T. Saundry DEAN TOYE OR TOM SAUNDRY. CERTIFIED B.C. ASSAYER

SHANGRI-LA MINERALS FILE # 85-3015 PAGE 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 275S 800E	1	60	17	212	.5	46	16	1874	3.91	72	5	ND	2	24	1	2	2	60	.32	.15	13	45	.72	310	.09	6	2.18	.01	.20	1	25
LY 275S 825E	1	52	17	147	.2	37	15	2043	3.35	65	5	ND	1	21	1	2	2	52	.25	.13	8	35	.58	287	.08	5	2.01	.01	.13	1	37
LY 275S 850E	1	57	21	159	.3	38	16	2229	3.54	65	5	ND	2	25	1	2	2	54	.24	.17	9	33	.59	347	.08	6	2.14	.01	.14	1	12
LY 275S 875E	1	57	14	150	.3	42	16	2194	3.66	70	5	ND	2	26	1	3	3	56	.26	.15	13	38	.60	402	.08	6	2.07	.02	.15	1	10
LY 275S 900E	1	60	16	144	.4	39	17	2434	3.39	61	5	ND	2	28	1	2	2	55	.32	.20	8	37	.61	437	.08	7	2.20	.02	.16	1	33
LY 275S 925E	1	56	14	124	.3	39	16	2013	3.45	76	5	ND	1	36	1	3	3	55	.39	.17	13	37	.63	434	.07	9	1.77	.01	.19	1	22
LY 275S 950E	2	61	17	133	.5	41	16	2087	3.56	68	5	ND	2	23	1	2	2	59	.24	.15	10	40	.62	374	.08	7	2.14	.01	.13	1	11
LY 275S 975E	2	58	16	140	.3	40	17	2513	3.43	55	5	ND	1	24	1	2	3	55	.21	.17	13	36	.59	453	.08	6	2.22	.01	.14	1	13
LY 275S 1000E	2	70	14	145	.6	42	21	1835	3.26	53	5	ND	1	11	1	2	3	54	.08	.12	10	35	.52	242	.09	6	2.18	.01	.11	1	7
LY 275S 1025E	1	61	17	123	.3	36	16	1944	3.38	51	5	ND	2	18	1	2	2	55	.16	.14	10	34	.57	306	.08	5	2.13	.01	.12	1	55
LY 275S 1050E	2	65	19	126	.5	38	17	1933	3.66	55	5	ND	2	18	1	2	2	60	.18	.15	11	39	.64	330	.08	6	2.24	.01	.13	1	33
LY 275S 1075E	1	58	20	127	.4	37	16	1916	3.48	53	5	ND	1	23	1	3	2	57	.28	.17	9	34	.62	311	.07	7	2.12	.01	.13	1	22
LY 275S 1100E	1	62	16	129	.5	41	17	1719	3.96	59	5	ND	2	23	1	2	3	64	.27	.11	11	40	.67	307	.09	5	2.15	.01	.14	1	30
LY 275S 1125E	1	52	18	205	.4	34	15	2045	3.28	45	5	ND	1	39	3	2	2	51	.40	.21	10	32	.56	387	.08	7	2.15	.02	.17	1	23
LY 275S 1150E	2	63	25	283	.6	42	14	1619	3.96	67	5	ND	2	26	2	3	2	58	.33	.18	14	40	.65	238	.08	6	2.17	.01	.18	1	150
LY 275S 1175E	1	54	21	134	.7	39	14	1242	4.06	43	5	ND	1	24	1	2	2	61	.28	.12	12	38	.64	235	.11	5	2.60	.02	.15	1	17
LY 275S 1200E	1	63	18	119	.4	34	15	2073	3.75	39	7	ND	3	27	1	2	2	58	.31	.22	11	37	.61	287	.10	6	2.53	.02	.15	1	26
LY 275S 1225E	1	64	14	101	.5	36	14	1304	3.59	40	5	ND	2	15	1	2	2	58	.15	.16	8	41	.66	216	.11	5	2.86	.01	.09	1	44
LY 275S 1250E	1	56	15	86	.3	28	10	1208	3.18	31	5	ND	1	12	1	2	2	49	.11	.14	4	26	.45	140	.08	8	2.46	.01	.08	1	37
LY 275S 1275E	2	66	17	100	.2	28	13	1641	3.56	40	5	ND	2	15	1	5	2	55	.12	.14	10	26	.42	185	.08	5	1.93	.01	.09	1	34
LY 275S 1300E	1	44	16	106	.2	26	13	1707	3.23	31	5	ND	1	19	1	3	2	48	.19	.14	12	26	.45	219	.07	6	1.99	.02	.14	1	30
LY 275S 1325E	1	47	18	130	.2	30	13	1566	3.46	29	5	ND	2	17	1	2	3	49	.17	.15	10	28	.48	234	.07	7	2.07	.01	.20	1	6
LY 275S 1350E	1	72	18	158	.5	42	15	1692	3.79	43	5	ND	1	24	2	2	2	54	.21	.17	10	34	.56	400	.07	4	2.44	.02	.18	1	12
LY 300S 750E	2	61	34	223	.3	48	18	2478	4.09	130	5	ND	1	21	2	5	2	60	.22	.16	16	37	.63	334	.08	8	2.13	.01	.18	1	45
LY 300S 775E	2	61	20	183	.2	46	17	2117	3.96	81	5	ND	2	24	1	4	3	60	.24	.16	14	41	.68	360	.10	7	2.39	.01	.20	1	11
LY 300S 800E	1	57	19	188	.1	44	16	2205	3.87	83	5	ND	1	21	1	2	2	60	.20	.16	12	38	.67	336	.10	7	2.45	.01	.16	1	27
LY 300S 825E	1	71	30	196	.5	45	18	3488	4.13	124	5	ND	2	22	1	5	2	60	.20	.17	14	34	.58	290	.09	7	2.39	.01	.12	1	48
LY 300S 850E	1	59	14	145	.1	41	16	2446	3.71	85	5	ND	2	31	1	2	2	57	.28	.13	13	37	.63	439	.09	6	2.03	.02	.15	1	19
LY 300S 875E	2	56	16	136	.2	38	16	2086	3.38	64	5	ND	2	38	1	4	2	55	.37	.19	14	36	.64	476	.09	6	2.04	.02	.17	2	17
LY 300S 900E	1	64	21	135	.5	39	17	2342	3.72	74	5	ND	1	28	1	4	2	60	.29	.17	11	40	.65	446	.08	6	2.25	.01	.13	1	25
LY 300S 925E	1	119	24	227	1.4	63	22	2834	3.95	144	5	ND	2	30	1	3	2	57	.22	.18	17	34	.56	670	.07	6	2.07	.01	.17	1	22
LY 300S 950E	2	77	33	245	.7	49	21	3712	3.81	139	5	ND	2	29	2	2	2	56	.25	.23	11	36	.55	627	.08	5	1.80	.01	.15	1	19
LY 300S 975E	1	64	20	171	.7	49	19	2437	3.80	73	5	ND	2	24	2	5	2	61	.21	.15	12	38	.70	403	.07	6	2.13	.01	.17	1	31
LY 300S 1000E	1	50	13	120	.2	38	15	1840	3.34	72	5	ND	1	23	1	4	2	52	.23	.15	10	33	.56	358	.07	6	1.62	.01	.15	1	12
LY 300S 1025E	1	50	16	142	.2	36	14	1861	3.17	53	5	ND	1	23	1	3	3	51	.20	.12	8	29	.52	290	.07	6	1.87	.01	.12	1	19
LY 300S 1050E	1	50	13	118	.3	32	14	1835	3.25	52	5	ND	1	16	1	3	2	53	.17	.14	9	32	.55	262	.08	5	1.99	.01	.11	1	11
STD C/AU-0.5	20	59	40	138	6.9	65	27	1176	3.97	41	21	9	34	48	18	15	21	58	.48	.15	38	58	.88	180	.08	38	1.72	.07	.12	14	510

SHANGRI-LA MINERALS FILE # 85-3015

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 300S 1075E	1	52	18	108	.4	36	13	1497	3.22	57	5	ND	1	26	1	2	2	52	.27	.10	2	37	.57	321	.07	4	1.67	.02	.12	1	44
LY 300S 1100E	4	118	69	278	1.2	55	32	6715	6.12	143	5	ND	2	30	2	7	2	56	.36	.31	4	29	.45	380	.05	8	2.06	.01	.13	1	290
LY 300S 1125E	1	55	31	395	.4	52	19	2986	4.19	56	5	ND	2	25	1	2	2	55	.32	.16	2	37	.69	237	.09	6	1.95	.01	.16	1	65
LY 300S 1150E	2	81	33	180	.9	47	13	2701	4.60	65	5	ND	2	15	1	3	3	49	.17	.33	2	28	.40	139	.05	22	2.00	.01	.11	1	105
LY 300S 1175E	1	54	18	119	.4	35	14	1574	3.49	55	5	ND	2	24	1	2	2	55	.28	.16	5	39	.59	292	.08	5	2.02	.01	.12	1	29
LY 300S 1200E	1	54	15	119	.4	36	15	2077	3.46	50	5	ND	2	26	1	2	2	56	.26	.13	2	37	.59	322	.09	4	2.02	.01	.10	1	33
LY 300S 1225E	1	44	17	116	.3	28	13	2012	3.04	37	5	ND	1	26	1	2	2	49	.26	.17	2	29	.50	292	.08	5	2.10	.02	.09	1	10
LY 300S 1250E	1	40	13	110	.1	23	11	2370	2.60	31	5	ND	1	14	1	2	3	40	.12	.22	2	25	.39	214	.07	5	1.97	.01	.07	1	5
LY 300S 1275E	2	46	19	95	.3	28	12	1537	3.06	33	5	ND	1	19	1	2	2	47	.19	.14	3	29	.45	256	.07	22	1.89	.01	.09	1	20
LY 300S 1300E	1	53	13	116	.2	33	14	1931	3.67	35	5	ND	2	24	1	2	2	55	.25	.12	7	36	.58	316	.10	4	2.16	.01	.17	1	10
LY 300S 1325E	1	54	17	135	.3	36	15	1739	3.62	36	5	ND	1	25	1	3	2	53	.24	.18	6	33	.53	327	.07	24	2.39	.01	.16	1	13
LY 300S 1350E	2	72	26	146	.4	47	15	1804	3.66	36	5	ND	1	39	2	4	2	53	.38	.16	8	36	.56	556	.08	6	2.49	.01	.17	1	7
LY 350S 325E	3	59	18	140	.5	42	14	1910	3.90	67	5	ND	1	29	1	2	2	60	.29	.15	12	38	.54	380	.08	6	2.32	.02	.10	1	11
LY 350S 350E	2	41	15	119	.5	28	10	1082	3.21	49	5	ND	1	19	1	2	2	52	.21	.17	7	29	.40	251	.06	23	1.86	.01	.09	1	5
LY 350S 375E	2	46	16	124	.4	33	12	1582	3.62	67	5	ND	1	17	1	2	2	55	.13	.14	7	35	.44	289	.07	5	2.03	.01	.07	2	10
LY 350S 400E	1	54	16	138	.5	37	13	1290	3.77	70	5	ND	2	21	1	2	2	56	.22	.12	8	37	.47	354	.06	5	2.05	.01	.09	1	6
LY 350S 425E	2	53	15	106	1.0	28	13	817	3.37	60	5	ND	2	27	1	2	2	52	.29	.10	13	36	.44	441	.05	5	1.94	.01	.09	1	12
LY 350S 450E	2	89	21	152	1.5	64	18	3508	4.46	108	5	ND	2	54	1	2	2	54	.78	.20	23	39	.55	982	.04	6	2.68	.02	.14	1	2
LY 350S 475E	1	47	24	155	.4	35	14	2034	4.03	182	5	ND	2	31	1	2	2	58	.30	.14	10	31	.50	443	.07	6	2.20	.01	.14	1	44
LY 350S 500E	2	64	26	166	.2	45	16	2588	4.89	274	5	ND	2	41	1	2	2	75	.36	.17	17	38	.55	441	.07	8	2.25	.02	.16	1	65
LY 350S 525E	2	66	21	171	.3	45	17	2488	4.31	147	5	ND	3	30	1	2	2	61	.31	.15	15	37	.57	417	.09	8	2.18	.01	.17	1	49
LY 350S 550E	1	67	19	155	.3	46	17	2079	4.56	419	5	ND	3	27	1	3	2	65	.29	.12	12	39	.65	334	.09	7	2.44	.01	.19	1	75
LY 350S 575E	1	91	15	115	.3	44	20	1708	4.02	116	5	ND	2	32	1	2	2	66	.33	.11	10	49	.81	301	.12	6	2.37	.02	.14	1	38
LY 350S 600E	1	87	23	150	.2	42	20	2169	3.84	162	5	ND	1	16	1	2	2	59	.13	.12	8	38	.62	228	.10	6	2.20	.01	.14	1	29
LY 350S 625E	1	75	17	158	.6	46	18	2186	3.75	150	5	ND	2	30	1	2	2	57	.50	.14	10	42	.72	280	.10	6	2.27	.01	.20	1	125
LY 350S 650E	1	75	15	142	.3	47	17	1547	3.77	102	5	ND	2	21	1	2	2	58	.30	.10	11	39	.59	268	.09	5	2.26	.01	.13	1	47
LY 350S 675E	1	107	16	176	.3	52	21	1249	4.12	207	5	ND	3	19	1	2	4	65	.31	.07	10	52	.86	169	.12	6	2.42	.02	.09	1	50
LY 350S 700E	1	67	22	157	.3	55	21	2359	4.05	199	5	ND	2	19	1	4	2	62	.22	.14	13	51	.90	251	.13	6	2.58	.01	.16	1	33
LY 350S 725E	1	132	22	171	2.8	76	26	2682	4.37	283	5	ND	2	28	1	2	2	68	.37	.17	8	63	.97	367	.09	7	2.34	.01	.22	1	95
LY 350S 750E	1	58	15	172	.2	41	16	2072	3.71	178	5	ND	1	32	1	2	2	53	.40	.17	12	36	.57	322	.06	9	1.91	.02	.18	1	46
LY 350S 775E	1	52	13	191	.2	39	16	1839	3.43	78	5	ND	2	34	1	2	2	54	.39	.17	8	38	.63	350	.06	7	1.95	.01	.21	1	17
LY 350S 800E	1	62	27	190	.2	42	16	1915	3.64	123	5	ND	1	31	2	2	2	56	.35	.15	9	37	.63	338	.08	6	1.98	.01	.16	1	49
LY 350S 825E	1	70	21	177	.2	42	17	2864	3.61	180	5	ND	1	25	1	2	2	52	.25	.18	8	30	.52	323	.09	7	2.29	.01	.12	1	33
LY 350S 850E	2	86	27	179	.3	48	20	3474	3.65	304	5	ND	2	27	1	2	2	51	.33	.21	10	34	.53	327	.08	8	2.31	.01	.11	1	60
LY 350S 875E	1	57	19	162	.3	39	16	2195	3.55	91	5	ND	1	34	1	2	2	55	.30	.18	8	36	.56	408	.07	6	1.83	.01	.14	1	55
LY 350S 900E	2	77	31	156	.5	42	18	2137	4.22	118	5	ND	3	33	1	2	2	64	.29	.19	13	42	.67	442	.08	7	2.09	.01	.15	1	50
STD C/AU-0.5	20	59	39	136	6.9	67	28	1196	3.97	38	17	8	33	48	18	15	22	58	.48	.15	38	59	.88	180	.08	40	1.72	.07	.11	13	480

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 350S 925E	1	82	18	174	.5	45	20	2376	3.95	102	5	ND	2	24	1	2	2	55	.21	.20	9	36	.55	399	.06	6	2.03	.01	.14	1	49
LY 350S 950E	1	87	24	195	.5	55	20	2368	3.93	97	5	ND	1	23	1	4	2	61	.18	.17	13	43	.62	449	.08	5	2.20	.01	.13	1	25
LY 350S 975E	1	61	23	197	.7	49	18	2565	3.55	93	5	ND	2	24	1	2	2	54	.21	.16	7	36	.54	364	.08	5	2.00	.01	.11	1	27
LY 350S 1000E	1	49	15	162	.4	39	14	2079	3.19	66	5	ND	1	33	1	3	2	50	.32	.16	8	37	.55	394	.06	5	1.73	.01	.13	1	21
LY 350S 1025E	2	49	25	165	.6	40	16	2160	3.39	79	5	ND	2	26	1	2	2	52	.25	.15	8	33	.52	338	.06	6	1.81	.01	.11	1	23
LY 350S 1050E	1	52	18	148	.3	36	15	2198	3.41	55	5	ND	2	22	1	2	2	53	.22	.16	7	33	.53	346	.07	4	1.88	.01	.09	1	60
LY 350S 1075E	1	51	16	125	.3	34	13	1670	3.16	53	5	ND	1	26	1	5	2	50	.27	.13	3	32	.53	334	.07	5	1.62	.01	.09	1	32
LY 350S 1100E	1	59	19	133	.3	39	16	1888	3.44	61	5	ND	2	24	1	2	2	54	.21	.16	7	37	.58	345	.07	3	1.93	.01	.12	1	20
LY 350S 1125E	1	69	34	364	.4	55	22	3251	4.31	62	5	ND	2	32	3	5	2	57	.39	.25	10	39	.72	347	.07	6	2.25	.02	.19	1	75
LY 350S 1150E	1	70	26	290	1.0	51	17	2248	3.86	62	5	ND	2	39	3	5	2	52	.54	.19	11	38	.63	241	.08	5	2.03	.01	.16	1	50
LY 350S 1175E	2	61	34	137	.6	40	16	2954	3.82	75	5	ND	1	27	1	9	2	52	.26	.18	6	31	.50	242	.08	6	1.82	.01	.10	1	150
LY 350S 1200E	1	44	15	106	.2	31	11	1468	2.89	40	5	ND	2	23	1	2	2	46	.27	.16	5	31	.48	236	.07	5	1.61	.01	.08	1	53
LY 350S 1225E	1	52	11	100	.2	32	13	1550	2.98	45	5	ND	1	27	1	2	2	48	.29	.13	4	32	.52	300	.07	3	1.76	.01	.08	1	13
LY 350S 1250E	1	48	14	114	.1	31	13	1922	2.84	44	5	ND	1	35	1	4	2	45	.36	.17	6	29	.51	360	.05	4	1.66	.01	.11	1	24
LY 350S 1275E	1	35	10	95	.2	21	10	1590	2.35	26	5	ND	2	14	1	2	2	38	.12	.18	2	20	.35	176	.05	3	2.08	.02	.06	1	6
LY 350S 1300E	1	47	14	116	.3	28	13	1665	2.99	31	5	ND	2	23	1	2	2	47	.20	.16	7	30	.48	223	.07	5	2.36	.01	.07	1	19
LY 350S 1325E	1	51	19	136	.2	29	13	2028	3.11	37	5	ND	1	32	1	2	2	48	.38	.22	9	30	.50	333	.06	5	2.12	.02	.12	1	7
LY 350S 1350E	1	55	17	116	.2	32	15	2162	3.47	46	5	ND	1	23	1	4	2	55	.19	.15	9	33	.54	350	.07	4	1.94	.01	.11	1	5
LY 350S 1375E	1	46	13	134	.3	28	13	1924	3.06	29	5	ND	2	24	1	2	2	48	.26	.22	4	29	.48	310	.07	4	2.35	.01	.11	1	2
LY 350S 1400E	1	43	19	139	.2	37	19	4039	4.42	59	5	ND	1	22	1	4	2	60	.27	.15	6	43	.63	399	.08	4	2.12	.01	.16	1	33
LY 350S 1425E	7	63	19	215	.9	96	133	16227	10.42	93	5	ND	2	34	2	2	2	42	.37	.24	26	23	.30	1452	.03	3	2.22	.01	.10	1	29
LY 350S 1450E	1	29	12	145	.3	32	12	2250	2.96	26	5	ND	1	29	1	2	2	49	.28	.10	9	31	.49	445	.08	5	2.12	.01	.08	1	9
LY 350S 1475E	1	40	17	101	.4	28	9	886	2.98	29	5	ND	1	23	1	2	2	47	.19	.11	9	28	.46	396	.06	4	2.18	.01	.08	1	3
LY 350S 1500E	1	80	47	102	7.1	45	6	434	2.93	40	5	ND	2	34	2	2	2	39	.40	.15	12	29	.37	581	.03	4	2.50	.02	.09	1	4
LY 350S 1525E	1	60	19	141	.8	39	13	1534	3.35	32	5	ND	1	24	1	2	3	52	.24	.12	9	35	.55	570	.08	5	2.10	.01	.09	1	24
LY 350S 1550E	1	65	9	160	.3	57	19	2562	3.75	12	5	ND	2	21	1	4	2	64	.44	.21	2	55	.83	268	.15	5	2.33	.02	.19	1	4
LY 350S 1575E	1	49	10	107	.2	50	16	1694	3.27	22	5	ND	2	21	1	2	2	53	.29	.11	2	39	.65	231	.14	5	2.28	.02	.09	1	7
LY 350S 1600E	1	50	12	106	.2	42	16	1699	3.32	21	5	ND	1	22	1	4	2	53	.24	.14	3	34	.68	264	.12	5	2.35	.02	.13	1	2
LY 350S 1625E	1	49	12	135	.1	34	15	2084	3.28	24	5	ND	1	22	1	2	2	50	.23	.17	4	32	.58	271	.10	3	2.31	.01	.11	1	5
LY 350S 1650E	2	52	15	106	.2	31	14	1635	3.64	40	5	ND	3	17	1	3	2	54	.16	.14	7	33	.55	252	.10	3	1.99	.01	.11	1	19
LY 350S 1675E	1	55	14	114	.4	31	15	1843	3.23	31	5	ND	2	13	1	2	2	51	.11	.11	3	29	.50	270	.09	3	2.01	.01	.09	1	10
LY 350S 1700E	1	48	18	166	.2	35	12	1123	3.62	42	5	ND	2	22	1	5	2	58	.30	.09	8	36	.59	218	.10	5	2.06	.02	.11	1	32
LY 350S 1725E	2	46	25	160	.1	30	13	1362	3.65	60	5	ND	2	16	1	3	2	54	.14	.09	6	34	.55	190	.10	4	1.94	.02	.11	1	50
LY 350S 1750E	1	52	16	166	.2	36	14	1439	3.63	61	6	ND	2	13	1	2	2	57	.15	.10	3	35	.62	201	.12	3	2.00	.01	.11	1	22
LY 350S 1775E	1	53	16	160	.2	43	16	1134	3.81	29	5	ND	2	20	1	2	2	66	.27	.08	6	46	1.03	222	.18	3	2.89	.02	.10	1	29
LY 350S 1800E	1	40	13	96	.1	26	9	771	2.97	23	5	ND	1	11	1	5	2	49	.08	.14	2	28	.42	138	.08	4	1.61	.01	.06	1	16
LY 350S 1825E	1	46	14	124	.3	30	12	1193	3.47	27	5	ND	1	14	1	2	2	55	.11	.15	2	31	.45	147	.10	3	2.22	.01	.07	1	13
STD C/AU-0.5	20	60	38	137	7.1	68	28	1188	3.96	39	18	8	35	48	18	15	21	58	.48	.15	37	58	.88	180	.08	38	1.72	.06	.10	14	500

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 350S 1850E	1	51	28	125	.4	40	16	1239	3.56	43	5	ND	2	19	1	4	2	57	.27	.20	7	52	.62	242	.08	6	2.03	.01	.13	1	41
LY 350S 1875E	3	50	13	116	1.6	37	8	506	3.53	26	5	ND	2	15	1	2	2	95	.13	.17	2	63	.70	444	.10	5	2.21	.01	.08	1	22
LY 350S 1900E	1	43	19	144	.3	49	14	2102	3.71	18	5	ND	1	19	1	2	3	79	.19	.12	2	85	.92	338	.14	4	2.39	.01	.11	1	970
LY 350S 1925E	1	43	22	103	.4	35	12	2180	2.92	21	5	ND	1	20	1	3	2	52	.22	.13	5	48	.57	258	.09	5	1.95	.01	.07	1	20
LY 350S 1950E	2	61	23	136	.4	74	20	1836	3.93	33	5	ND	2	19	1	2	3	80	.16	.16	8	101	.99	614	.11	5	2.39	.01	.13	1	80
LY 350S 1975E	1	30	15	89	.9	21	8	1377	2.81	26	5	ND	2	14	1	2	2	47	.12	.11	4	25	.36	187	.10	5	1.90	.01	.06	1	50
LY 350S 2000E	1	29	22	76	1.1	17	7	1254	2.57	23	5	ND	1	13	1	3	3	41	.11	.11	5	23	.31	149	.07	4	2.05	.01	.05	1	39
LY 375S 1000E	3	62	30	214	.4	44	22	3271	4.04	92	5	ND	1	27	2	2	2	56	.25	.24	10	38	.56	351	.07	8	1.76	.01	.16	1	32
LY 375S 1025E	1	56	42	208	.7	45	16	2299	3.45	116	5	ND	2	30	2	2	2	50	.36	.19	9	30	.49	378	.07	7	2.02	.01	.13	1	48
LY 375S 1050E	2	62	24	184	.5	44	19	3351	3.90	73	5	ND	2	27	2	2	2	58	.31	.22	9	35	.55	396	.08	5	2.04	.01	.13	1	150
LY 375S 1075E	1	45	17	123	.1	34	13	1807	3.05	53	5	ND	1	32	1	3	3	49	.33	.18	6	28	.54	371	.06	7	1.53	.01	.13	1	42
LY 375S 1100E	1	65	21	125	.5	43	17	2001	3.83	74	5	ND	2	19	1	2	2	60	.20	.14	9	39	.62	306	.08	5	1.98	.01	.13	1	105
LY 375S 1125E	1	61	30	244	.3	46	18	2797	3.92	72	5	ND	2	21	1	2	3	52	.29	.21	8	33	.56	232	.06	8	1.85	.01	.15	1	60
LY 375S 1150E	1	71	27	278	.8	53	17	2609	4.26	62	5	ND	2	27	2	3	2	57	.33	.18	14	38	.64	267	.09	7	2.36	.01	.18	1	65
LY 375S 1175E	1	68	129	179	1.8	38	15	2410	3.99	77	5	ND	1	20	1	12	2	60	.21	.14	7	38	.57	223	.09	5	2.05	.01	.10	1	245
LY 375S 1200E	1	52	20	106	.2	34	14	1817	3.23	52	5	ND	1	25	1	2	3	52	.27	.15	9	33	.54	329	.08	31	1.86	.01	.12	1	29
LY 375S 1225E	1	57	22	114	.3	38	15	1741	3.47	57	5	ND	1	31	1	2	2	55	.31	.15	10	37	.61	368	.08	7	1.87	.02	.15	1	34
LY 375S 1250E	1	55	27	127	.3	36	15	1964	3.32	48	5	ND	2	35	1	2	2	54	.34	.18	9	37	.62	366	.09	6	2.02	.02	.13	1	49
LY 375S 1275E	1	55	22	121	.3	34	16	2170	3.15	51	5	ND	1	29	1	3	2	50	.31	.17	7	33	.56	339	.08	6	1.85	.01	.12	1	38
LY 375S 1300E	1	49	18	106	.2	31	14	1699	3.15	49	5	ND	1	25	1	2	2	50	.24	.14	9	31	.50	257	.06	7	1.77	.01	.08	1	42
LY 375S 1325E	1	45	17	106	.2	30	12	1285	3.11	45	5	ND	1	20	1	2	2	49	.19	.13	8	30	.48	241	.06	6	1.82	.01	.10	1	24
LY 375S 1350E	1	60	20	157	.6	38	13	1942	3.09	37	5	ND	2	36	2	2	2	48	.35	.25	12	31	.50	436	.05	6	2.37	.01	.13	1	14
LY 400S 325E	1	48	13	133	.3	37	12	1291	3.38	52	5	ND	2	22	1	2	2	54	.22	.16	9	34	.49	259	.07	6	2.04	.01	.10	1	6
LY 400S 350E	1	42	14	116	.2	34	12	1770	3.43	64	5	ND	2	18	1	4	2	55	.18	.10	9	30	.45	256	.09	7	2.16	.01	.07	1	15
LY 400S 375E	1	38	13	105	.3	31	11	1407	3.39	46	5	ND	1	16	1	2	2	55	.13	.14	7	34	.47	277	.08	5	2.10	.01	.07	1	8
LY 400S 400E	2	45	17	128	.4	39	13	1971	3.69	80	5	ND	2	17	1	2	2	60	.14	.14	12	40	.52	406	.07	7	2.04	.01	.08	1	39
LY 400S 425E	1	49	14	119	.3	40	13	1578	3.54	72	5	ND	2	18	1	2	3	54	.13	.11	11	35	.44	356	.06	6	1.98	.01	.08	1	5
LY 400S 450E	1	58	12	152	.5	37	15	2204	3.85	69	5	ND	2	26	1	4	2	54	.26	.19	14	35	.44	395	.05	6	1.95	.01	.10	1	13
LY 400S 475E	1	54	15	154	.3	42	14	1897	4.46	124	5	ND	2	36	1	2	2	78	.45	.14	15	39	.72	507	.09	8	2.52	.02	.10	1	24
LY 400S 500E	1	52	20	139	.3	36	17	3046	4.76	182	5	ND	3	29	1	2	2	73	.24	.15	18	32	.56	433	.06	7	2.42	.01	.15	1	80
LY 400S 525E	1	60	18	153	.2	44	15	2723	4.34	166	5	ND	2	35	1	2	2	61	.32	.19	16	32	.52	434	.07	8	2.12	.01	.17	1	27
LY 400S 550E	1	84	21	131	.4	51	18	1667	4.28	194	5	ND	1	27	1	2	2	71	.47	.13	15	54	.89	305	.10	7	2.40	.02	.18	1	31
LY 400S 575E	1	99	18	131	.2	56	29	2699	5.00	227	5	ND	3	32	1	2	2	82	.35	.13	11	56	1.12	328	.16	6	2.84	.01	.20	1	70
LY 400S 600E	1	73	12	110	.1	41	18	2032	3.66	134	5	ND	2	19	1	2	2	55	.22	.12	11	34	.60	242	.09	7	2.20	.01	.12	1	37
LY 400S 625E	1	71	14	138	.2	48	19	2041	3.99	132	5	ND	2	26	1	2	2	60	.38	.16	14	47	.81	305	.09	7	2.30	.01	.26	1	44
LY 400S 650E	1	124	14	150	.7	56	17	1778	3.66	146	5	ND	1	36	1	2	2	57	.66	.11	15	48	.75	230	.09	7	2.37	.02	.11	2	22
LY 400S 675E	1	95	19	160	.4	53	21	1841	4.01	304	5	ND	2	26	1	2	2	62	.45	.11	11	44	.72	196	.09	7	2.21	.01	.13	1	50
STD C/AU-0.5	21	59	39	134	7.0	68	28	1196	3.97	41	17	8	34	48	17	13	23	58	.48	.15	36	57	.88	179	.08	40	1.72	.06	.11	14	490

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 400S 700E	3	80	13	170	.1	68	25	2256	4.69	216	5	ND	3	24	1	5	2	75	.30	.14	14	67	1.30	290	.20	5	3.15	.02	.24	1	65
LY 400S 725E	3	117	17	161	.5	61	23	2379	4.44	265	5	ND	3	39	1	4	5	68	.44	.18	13	56	.86	431	.09	8	2.35	.02	.27	1	55
LY 400S 750E	4	58	17	173	.4	40	17	2005	3.73	234	5	ND	3	39	1	8	3	56	.44	.18	8	39	.61	355	.06	8	2.05	.01	.21	1	55
LY 400S 775E	3	73	23	272	.1	48	17	2064	3.95	142	5	ND	1	32	2	2	2	60	.47	.18	10	49	.70	292	.09	5	2.29	.01	.20	1	27
LY 400S 800E	2	65	31	228	.4	41	18	2247	3.82	180	5	ND	2	28	2	8	2	59	.35	.16	6	44	.66	291	.08	5	2.12	.01	.18	1	80
LY 400S 825E	3	66	22	176	.3	39	17	2152	3.85	318	5	ND	1	28	2	2	2	56	.31	.15	7	37	.62	334	.08	6	1.98	.02	.17	1	160
LY 400S 850E	3	94	55	221	.6	46	21	3114	3.92	381	5	ND	3	40	2	7	2	52	.44	.28	8	31	.52	495	.08	24	2.38	.02	.15	1	155
LY 400S 875E	2	66	20	183	.3	43	17	2237	3.61	112	5	ND	1	31	2	4	3	56	.30	.22	6	39	.59	428	.08	4	1.96	.01	.17	1	32
LY 400S 900E	3	64	26	157	.3	40	17	2592	3.57	106	5	ND	2	37	2	2	2	53	.38	.18	7	38	.59	432	.06	7	1.87	.01	.16	1	25
LY 400S 925E	3	76	21	218	.5	52	20	3359	4.07	118	5	ND	2	40	1	2	2	54	.41	.22	9	34	.57	500	.06	7	1.95	.01	.18	1	18
LY 400S 950E	5	87	22	196	.1	56	23	2527	4.61	116	5	ND	2	27	1	3	2	71	.22	.16	11	48	.73	419	.10	6	2.37	.01	.18	1	26
LY 400S 975E	4	110	30	243	1.8	58	24	3784	4.88	155	5	ND	3	25	2	2	2	57	.24	.23	10	34	.48	280	.07	7	2.67	.02	.14	1	11
LY 400S 1000E	4	88	27	229	.7	62	22	2836	4.78	103	5	ND	2	26	1	2	2	63	.25	.20	10	41	.61	340	.08	6	2.53	.01	.17	1	19
LY 400S 1025E	3	86	34	365	.3	60	26	4635	5.17	100	5	ND	4	28	3	3	2	64	.27	.23	12	36	.53	362	.09	6	2.39	.02	.12	1	55
LY 400S 1050E	4	86	32	205	.6	51	22	3227	4.80	117	5	ND	2	26	2	2	2	57	.20	.20	12	35	.52	370	.08	21	2.14	.01	.14	1	95
LY 400S 1075E	2	86	24	174	.5	53	20	2965	4.42	107	5	ND	3	31	1	2	2	57	.34	.17	12	40	.58	389	.08	7	2.45	.02	.13	1	95
LY 400S 1100E	3	69	23	160	.5	43	20	2585	4.44	108	5	ND	2	20	1	4	2	63	.15	.19	11	41	.61	353	.09	5	2.22	.01	.13	1	80
LY 400S 1125E	2	63	27	162	.3	40	17	2406	3.95	81	5	ND	1	21	1	9	2	59	.18	.20	8	40	.54	278	.07	6	2.23	.01	.12	1	50
LY 400S 1150E	3	114	31	184	.2	63	35	5374	5.87	79	5	ND	3	30	1	3	2	77	.24	.27	18	53	.90	596	.10	5	2.89	.01	.20	1	235
LY 400S 1175E	1	69	18	123	.4	42	18	2177	3.99	53	5	ND	3	22	1	2	2	60	.19	.17	8	39	.64	280	.10	6	2.36	.01	.13	1	125
LY 400S 1200E	1	58	14	145	.2	37	17	2586	3.47	53	5	ND	1	33	2	5	5	55	.33	.20	6	36	.59	373	.07	5	2.19	.01	.14	1	695
LY 400S 1225E	1	67	22	129	.1	42	17	1813	3.96	72	5	ND	3	20	1	2	2	63	.18	.14	8	47	.71	302	.09	6	2.10	.01	.16	1	70
LY 400S 1250E	2	58	15	150	.2	38	18	2415	3.52	63	5	ND	1	40	2	6	2	55	.39	.20	8	40	.66	390	.06	7	2.09	.01	.18	1	21
LY 400S 1275E	1	57	27	160	.1	35	15	1994	3.51	55	5	ND	1	34	2	4	2	56	.34	.18	6	36	.55	345	.09	5	2.11	.02	.10	1	20
LY 400S 1300E	1	44	22	115	.3	30	12	1724	2.88	51	5	ND	1	25	1	6	2	46	.32	.14	5	30	.46	267	.05	5	1.54	.01	.09	1	3
LY 400S 1325E	1	51	20	131	.1	38	14	1362	3.64	59	5	ND	1	20	1	3	2	58	.18	.11	7	40	.58	227	.08	5	2.17	.01	.13	1	37
LY 400S 1350E	1	61	18	154	.9	53	13	1553	3.10	39	5	ND	2	59	2	2	2	50	.69	.17	15	41	.59	618	.05	5	2.22	.01	.13	1	6
LY 400S 1375E	2	54	20	238	.2	54	30	3669	4.34	61	5	ND	1	33	2	5	2	57	.40	.20	12	38	.54	454	.08	7	2.25	.02	.14	1	34
LY 400S 1400E	2	49	16	211	.1	52	18	2979	3.91	44	5	ND	1	31	1	2	2	59	.39	.16	10	44	.65	297	.09	6	2.18	.02	.14	1	12
LY 400S 1425E	2	47	14	140	.1	35	16	1682	3.71	50	5	ND	2	14	1	2	2	62	.11	.11	8	39	.60	319	.11	6	1.95	.01	.14	1	26
LY 400S 1450E	1	32	14	135	.4	35	10	1621	2.38	28	5	ND	1	34	1	2	2	39	.42	.08	6	25	.40	532	.10	5	1.72	.02	.07	1	11
LY 400S 1475E	1	33	14	152	.5	30	12	1973	2.93	20	5	ND	1	25	1	3	2	48	.26	.09	2	25	.39	330	.11	5	1.69	.02	.08	1	7
LY 400S 1500E	1	52	20	199	1.2	50	11	1665	2.85	16	5	ND	1	32	2	4	2	44	.37	.09	8	29	.49	510	.11	3	2.14	.02	.07	1	10
LY 400S 1525E	1	54	22	166	1.3	50	19	2143	3.26	32	5	ND	1	27	2	5	2	51	.29	.11	7	33	.49	496	.10	5	2.69	.02	.10	1	11
LY 400S 1550E	1	42	12	126	.3	30	12	1256	3.12	30	5	ND	1	20	1	2	2	48	.30	.12	6	29	.45	239	.11	5	2.10	.01	.09	1	17
LY 400S 1575E	1	53	15	121	.3	29	13	1484	3.26	31	5	ND	1	20	1	2	2	50	.25	.11	7	28	.46	241	.09	5	1.85	.01	.11	1	32
STD C/AU-0.5	20	60	40	137	7.0	66	28	1188	3.96	39	18	8	34	48	18	15	22	58	.48	.15	37	59	.88	175	.08	38	1.72	.06	.11	13	500

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 400S 1600E	1	50	18	126	.3	34	15	1937	3.21	33	5	ND	2	17	1	2	2	49	.17	.13	2	28	.50	199	.09	5	2.03	.01	.11	2	13
LY 400S 1625E	3	61	16	124	.1	36	13	1348	3.32	35	5	ND	1	15	1	8	2	52	.14	.16	6	30	.52	139	.10	5	1.91	.01	.09	3	11
LY 400S 1650E	1	42	14	111	.3	28	13	1839	3.08	29	5	ND	2	12	1	9	2	51	.09	.12	2	28	.46	213	.10	5	1.79	.01	.08	1	12
LY 400S 1675E	2	52	21	115	.3	32	13	1642	3.21	31	5	ND	2	15	1	10	2	48	.18	.15	2	29	.48	212	.09	5	2.21	.02	.11	2	22
LY 400S 1700E	1	48	21	184	.3	37	13	1762	3.27	39	5	ND	2	31	1	3	2	48	.49	.13	4	35	.57	280	.08	5	1.83	.01	.13	1	13
LY 400S 1725E	1	39	20	167	.3	29	15	2686	2.95	26	5	ND	1	42	1	2	2	45	.52	.19	2	32	.51	415	.06	5	1.46	.01	.15	1	6
LY 400S 1750E	1	55	27	191	.3	41	15	1541	3.50	55	5	ND	2	18	1	3	2	54	.22	.13	2	38	.62	227	.08	4	2.29	.01	.13	1	21
LY 400S 1775E	1	37	26	107	.4	29	12	1817	2.83	37	5	ND	1	22	1	5	2	47	.31	.13	2	32	.47	259	.08	4	1.76	.01	.08	1	50
LY 400S 1800E	1	41	11	91	.1	29	11	1056	3.11	37	5	ND	2	10	1	3	2	49	.07	.13	2	32	.48	198	.08	4	2.01	.01	.07	3	37
LY 400S 1825E	4	108	21	262	.4	279	34	2027	4.86	36	5	ND	2	20	2	2	5	111	.25	.22	8	353	2.00	431	.08	5	2.94	.01	.10	1	14
LY 400S 1850E	3	66	22	282	.7	117	22	1855	4.12	29	5	ND	2	19	3	4	3	93	.15	.24	5	134	1.19	593	.09	4	2.71	.02	.11	1	10
LY 400S 1875E	5	75	71	271	2.2	81	17	2122	3.89	80	5	ND	2	35	3	8	2	61	.19	.29	3	56	.51	703	.05	5	2.00	.01	.12	1	27
LY 400S 1900E	1	43	20	115	.6	37	13	1860	3.12	41	5	ND	1	20	1	3	2	48	.19	.18	2	26	.45	375	.06	5	1.79	.01	.09	2	190
LY 400S 1925E	1	41	34	97	.1	29	10	1743	2.92	40	5	ND	2	20	1	7	4	46	.20	.15	2	32	.45	334	.07	5	1.53	.02	.11	1	205
LY 400S 1950E	1	38	15	81	.6	26	9	1095	3.23	59	5	ND	1	12	1	2	2	47	.08	.16	2	29	.39	268	.07	5	1.63	.01	.09	1	50
LY 400S 1975E	2	31	15	81	.6	19	7	1928	2.57	25	5	ND	1	18	1	6	3	40	.15	.10	2	18	.28	231	.08	3	1.38	.01	.06	2	15
LY 400S 2000E	1	41	13	123	.4	29	9	2127	2.89	27	5	ND	2	19	1	2	2	45	.21	.13	2	34	.39	223	.07	5	1.62	.01	.08	2	38
LY 450S 325E	1	46	12	137	.4	43	13	1781	3.41	47	5	ND	1	18	1	2	2	55	.17	.14	5	35	.48	356	.05	5	1.79	.01	.07	1	6
LY 450S 350E	1	64	14	183	.9	53	15	2320	3.45	136	5	ND	1	27	1	2	2	50	.26	.15	9	35	.51	577	.05	5	1.98	.01	.08	1	7
LY 450S 375E	2	58	17	168	.3	46	14	2028	3.30	72	5	ND	2	20	1	7	2	49	.19	.14	7	29	.41	573	.06	6	1.85	.01	.10	2	17
LY 450S 400E	3	62	12	133	.4	48	14	1918	4.01	92	5	ND	3	19	1	8	2	56	.13	.12	12	35	.43	421	.06	5	1.85	.01	.10	1	22
LY 450S 425E	1	55	11	127	.5	46	14	1468	3.66	81	5	ND	2	17	1	2	2	50	.13	.10	8	31	.43	343	.06	5	1.70	.01	.08	1	8
LY 450S 450E	2	49	11	128	.2	41	13	1496	3.39	80	5	ND	2	18	1	2	2	49	.13	.12	5	34	.45	297	.07	5	1.86	.01	.07	1	1
LY 450S 475E	2	50	11	111	.3	46	12	823	3.74	96	5	ND	3	14	1	2	2	55	.09	.08	5	33	.47	290	.06	5	1.73	.01	.07	2	6
LY 450S 500E	2	60	17	129	.5	34	13	1465	4.67	260	5	ND	2	25	1	8	2	70	.22	.15	14	35	.54	412	.03	4	2.07	.01	.13	1	55
LY 450S 525E	2	61	16	161	.2	41	18	1860	4.16	303	5	ND	3	28	1	5	2	61	.35	.19	11	37	.61	347	.07	6	2.20	.01	.16	1	135
LY 450S 550E	3	85	27	170	.9	54	23	3068	5.83	995	5	ND	3	36	1	7	2	66	.26	.17	19	36	.68	466	.08	4	2.47	.02	.17	1	260
LY 450S 575E	5	130	36	307	1.6	99	30	3203	7.37	1360	5	ND	3	32	2	3	2	89	.20	.18	24	63	.92	430	.10	2	2.56	.01	.15	1	305
LY 450S 600E	1	76	16	131	.1	48	19	1672	4.05	226	5	ND	2	22	1	4	2	63	.28	.09	6	46	.87	231	.11	4	2.42	.01	.20	1	25
LY 450S 625E	5	340	19	111	1.8	99	62	1942	9.05	3033	5	8	3	27	1	3	5	125	.35	.10	29	160	2.84	322	.21	2	3.68	.01	.62	6	2630
LY 450S 650E	1	82	18	124	.2	48	17	1701	3.88	196	5	ND	3	16	1	2	3	55	.13	.11	8	38	.62	283	.08	4	2.01	.01	.16	2	50
LY 450S 675E	1	97	30	163	.5	53	22	1977	4.25	870	5	ND	2	29	1	2	2	58	.33	.12	5	39	.77	277	.08	5	2.09	.01	.17	1	135
LY 450S 700E	1	186	142	267	3.2	42	19	1446	4.29	1424	5	ND	3	29	2	2	2	51	.32	.14	10	23	.57	236	.11	6	2.97	.02	.08	1	840
LY 450S 725E	1	118	64	185	.9	51	22	2311	4.70	1536	5	2	2	26	1	6	2	60	.27	.15	4	30	.59	278	.07	5	2.10	.01	.10	1	1180
LY 450S 750E	1	114	19	162	.3	48	25	2004	4.14	888	5	ND	2	22	1	3	2	53	.25	.20	6	30	.48	213	.08	6	2.17	.01	.10	1	270
LY 450S 775E	1	156	30	565	2.4	78	20	1215	4.35	631	5	ND	2	46	5	2	2	54	.80	.11	18	44	.67	240	.07	5	2.28	.02	.12	1	190
STD C/AU-0.5	21	60	39	137	7.8	76	28	1208	3.96	40	17	8	34	48	18	13	21	59	.48	.16	40	56	.88	180	.08	37	1.72	.07	.12	14	520

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 450S 800E	2	72	59	399	.9	32	17	2963	3.43	466	5	ND	1	31	2	2	2	37	.45	.18	7	20	.38	276	.05	9	1.84	.02	.10	1	370
LY 450S 825E	4	115	60	353	.8	77	35	6677	6.88	690	5	ND	1	38	2	5	2	52	.48	.22	21	26	.49	358	.06	10	1.91	.02	.17	2	810
LY 450S 850S	8	273	83	461	2.1	114	66	7974	10.14	982	5	ND	1	32	5	5	2	85	.50	.27	51	33	.66	402	.07	7	2.37	.01	.12	2	450
LY 450S 875S	8	179	326	550	5.1	117	39	8123	7.49	603	5	ND	2	43	6	3	3	48	.28	.26	34	26	.36	402	.07	10	2.10	.01	.12	1	435
LY 450S 900S	8	259	562	673	5.0	106	49	10602	7.60	673	5	ND	2	80	10	7	2	41	.93	.35	45	22	.33	692	.03	10	1.44	.01	.14	1	1440
LY 450S 925S	7	181	175	387	2.5	101	46	6450	7.07	297	5	ND	3	32	3	3	4	68	.27	.25	37	42	.69	726	.11	7	2.76	.01	.18	1	325
LY 450S 950S	3	113	49	321	1.5	84	30	5540	5.50	275	5	ND	2	49	1	2	4	58	.44	.32	22	38	.66	466	.10	8	2.74	.01	.17	1	75
LY 450S 975S	5	142	44	263	1.6	81	38	9022	7.56	235	5	ND	1	35	1	2	2	57	.28	.31	27	32	.45	273	.06	6	2.14	.01	.12	1	135
LY 450S 1000S	8	152	75	451	2.1	89	35	6747	7.11	208	5	ND	1	45	3	6	2	52	.41	.34	33	24	.40	407	.06	12	2.33	.01	.13	1	160
LY 450S 1025S	23	176	42	224	.4	73	55	6593	7.36	129	5	ND	2	35	2	7	2	78	.33	.33	33	54	.71	517	.08	6	2.73	.02	.21	1	34
LY 450S 1050S	4	105	19	253	.2	77	36	6613	5.13	62	5	ND	1	59	2	2	6	68	.67	.31	30	48	1.06	736	.10	9	3.08	.02	.25	1	16
LY 450S 1075S	4	113	26	376	.3	76	33	6098	5.74	109	5	ND	3	38	3	5	4	64	.35	.22	32	46	.81	1024	.11	8	2.95	.02	.19	1	48
LY 450S 1100S	7	173	37	260	.9	90	48	6831	6.32	164	5	ND	2	20	1	2	2	65	.19	.22	26	42	.61	283	.10	7	2.63	.01	.13	1	175
LY 450S 1125S	9	156	28	234	.5	83	39	4623	6.60	106	5	ND	2	42	1	7	3	78	.40	.28	39	54	.88	454	.11	25	3.32	.02	.29	1	225
LY 450S 1150S	11	121	48	240	2.3	73	32	4617	7.76	250	5	3	2	58	1	12	2	63	.30	.26	43	35	.72	426	.08	8	2.47	.01	.25	1	1220
LY 450S 1175S	5	87	26	167	.8	54	21	3069	5.14	104	5	ND	1	36	1	2	2	61	.23	.21	22	40	.64	415	.08	8	2.18	.02	.20	1	190
LY 450S 1200S	4	111	24	241	.9	109	35	8286	6.77	65	5	ND	2	35	1	2	2	87	.29	.15	29	80	.92	523	.11	6	2.66	.01	.34	1	40
LY 450S 1225S	10	146	27	331	.8	90	34	5407	6.14	162	5	ND	2	49	2	2	2	62	.36	.24	31	40	.58	416	.08	9	2.19	.01	.18	1	105
LY 450S 1250S	4	125	34	263	.7	80	31	4012	5.48	128	5	ND	1	30	2	2	3	72	.25	.23	24	53	.79	349	.10	7	2.51	.01	.19	1	215
LY 450S 1275S	2	70	28	141	.2	45	18	2182	3.88	60	5	ND	2	21	1	3	3	60	.19	.15	10	41	.58	237	.10	6	2.25	.02	.11	1	115
LY 450S 1300S	1	42	20	136	.3	40	13	692	3.45	42	5	ND	2	17	1	7	3	59	.15	.07	8	40	.58	265	.10	7	2.27	.01	.07	1	14
LY 450S 1325S	1	56	12	124	.6	48	15	1350	4.08	43	5	ND	1	38	1	2	2	69	.43	.13	16	55	.91	481	.09	4	2.42	.03	.18	1	30
LY 450S 1350S	1	67	16	155	.5	50	15	1369	3.78	48	5	ND	2	20	1	2	6	58	.22	.09	12	39	.57	266	.08	6	2.13	.01	.08	1	37
LY 450S 1375S	4	150	41	270	2.5	84	21	1519	4.78	80	5	ND	2	27	1	4	5	54	.28	.14	20	37	.49	413	.07	7	2.81	.02	.10	1	85
LY 450S 1400S	1	59	23	156	.4	40	17	1956	3.74	56	5	ND	2	23	1	2	6	58	.25	.12	10	37	.63	311	.08	24	1.97	.02	.12	1	32
LY 450S 1425S	1	51	16	113	.4	34	12	919	3.76	73	5	ND	1	25	1	2	3	55	.27	.13	5	35	.50	240	.08	6	2.09	.01	.09	1	39
LY 450S 1450S	1	47	17	123	.1	28	13	1691	3.24	44	5	ND	1	19	1	2	7	51	.18	.16	7	38	.50	252	.06	6	1.84	.01	.10	1	20
LY 450S 1475S	2	48	17	107	.3	29	13	1717	3.27	44	5	ND	1	16	1	2	5	52	.16	.14	7	35	.49	228	.08	5	1.87	.01	.09	1	26
LY 450S 1500S	1	54	14	122	.1	33	14	2025	3.40	37	5	ND	1	29	1	2	2	52	.30	.13	13	36	.55	430	.07	6	1.85	.01	.11	1	30
LY 450S 1525S	1	53	12	100	.2	32	14	1776	3.45	50	5	ND	1	24	1	2	2	54	.25	.11	9	37	.58	341	.07	5	1.81	.01	.11	1	125
LY 450S 1550S	1	67	23	104	.3	32	16	1660	3.96	53	5	ND	2	13	1	12	2	62	.10	.15	10	39	.59	303	.10	6	2.06	.01	.14	1	70
LY 450S 1575S	2	59	22	105	.2	29	17	2147	3.55	52	5	ND	1	29	1	5	9	55	.28	.18	11	35	.59	379	.09	5	2.11	.01	.11	1	25
LY 450S 1600S	1	59	23	117	.2	31	18	2586	3.71	50	5	ND	1	26	1	2	5	58	.24	.18	10	41	.64	412	.10	8	2.20	.02	.13	1	24
LY 450S 1625S	2	56	21	123	.4	34	16	1720	3.73	48	5	ND	1	26	1	2	5	59	.26	.16	12	42	.66	360	.08	7	2.18	.01	.12	1	16
LY 450S 1650S	1	49	13	105	.4	31	15	1354	3.61	30	5	ND	2	20	1	3	2	59	.26	.11	5	44	.70	261	.12	4	2.18	.01	.11	1	35
LY 450S 1675S	2	79	24	164	.6	55	23	1563	5.26	30	5	ND	2	29	1	3	4	105	.46	.11	19	92	1.61	353	.24	7	3.26	.03	.42	1	18
STD C/AU-0.5	20	60	40	137	7.0	65	28	1202	3.97	40	18	9	35	49	18	16	23	59	.48	.16	37	58	.88	181	.08	39	1.72	.07	.10	14	495

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 450S 1700E	1	50	7	97	.3	30	13	955	3.53	46	5	ND	2	13	1	4	2	53	.12	.09	3	33	.51	206	.08	4	1.90	.01	.07	2	31
LY 450S 1725E	2	65	22	89	.2	32	14	1261	3.91	60	5	ND	2	13	1	5	2	55	.15	.11	3	34	.52	231	.06	4	1.60	.01	.09	1	170
LY 450S 1750E	1	55	18	107	.1	31	14	1683	3.42	51	5	ND	1	19	1	3	2	52	.22	.15	3	33	.55	291	.08	6	2.10	.01	.08	1	20
LY 450S 1775E	1	66	25	205	.2	78	16	1446	4.02	55	5	ND	2	27	2	2	3	81	.59	.16	11	95	.94	453	.08	5	2.14	.02	.16	1	60
LY 450S 1800E	1	51	17	111	.2	29	13	1669	3.26	44	5	ND	3	23	1	3	2	49	.23	.17	2	34	.49	290	.07	5	1.99	.01	.10	2	31
LY 450S 1825E	2	63	26	157	.3	45	17	1985	3.85	51	5	ND	2	18	1	7	2	61	.19	.20	6	50	.64	337	.08	7	1.90	.01	.12	1	19
LY 450S 1850E	1	67	23	170	.2	52	19	1828	4.07	70	5	ND	2	22	1	2	2	66	.23	.17	8	60	.76	373	.09	5	2.05	.01	.13	1	65
LY 450S 1875E	1	69	31	174	.2	56	19	1880	4.05	75	5	ND	3	20	1	2	2	69	.20	.19	6	64	.84	389	.08	4	2.18	.01	.14	1	25
LY 450S 1900E	1	57	21	137	.2	43	15	1318	3.49	55	5	ND	2	19	1	2	2	58	.19	.16	7	52	.66	301	.08	6	2.05	.01	.08	1	95
LY 450S 1925E	1	47	41	172	.8	24	10	2572	2.60	67	5	ND	2	17	1	2	2	39	.16	.20	2	26	.32	221	.08	6	2.40	.02	.07	1	8
LY 450S 1950E	1	52	33	207	.8	39	13	3216	3.01	160	5	ND	1	14	1	2	2	43	.13	.17	2	26	.32	324	.09	6	2.79	.01	.05	2	6
LY 450S 1975E	1	52	31	263	.4	81	10	10601	2.97	77	5	ND	2	19	1	6	2	47	.16	.13	6	37	.44	356	.08	4	2.30	.01	.12	1	46
LY 450S 2000E	1	67	23	185	.4	33	12	4306	2.67	46	5	ND	1	25	1	2	2	37	.20	.12	2	22	.32	261	.06	4	2.05	.01	.07	1	16
LY 475S 325E	2	53	17	142	.2	46	15	2006	3.70	68	5	ND	3	23	1	2	2	57	.22	.15	8	39	.55	456	.07	6	1.94	.01	.09	2	6
LY 475S 350E	1	57	23	162	.2	51	16	2357	3.78	69	5	ND	3	20	1	4	2	57	.16	.14	9	39	.54	453	.07	4	2.07	.01	.10	1	4
LY 475S 375E	1	66	14	159	.3	55	18	2243	3.97	89	5	ND	2	22	1	2	2	55	.21	.13	13	39	.52	505	.06	6	2.04	.01	.10	1	7
LY 475S 400E	1	72	19	188	.4	57	20	2971	4.16	84	5	ND	2	28	1	2	2	56	.24	.15	16	35	.53	594	.07	5	2.00	.01	.11	2	8
LY 475S 425E	1	55	28	153	.1	42	15	2626	3.57	68	5	ND	3	34	1	2	2	49	.30	.15	12	33	.50	457	.07	6	1.66	.01	.12	1	5
LY 475S 450E	1	58	23	155	.1	43	16	2805	3.73	87	5	ND	2	33	1	5	2	51	.31	.13	12	35	.52	508	.06	5	1.82	.01	.12	1	4
LY 475S 475E	1	58	11	146	.1	37	14	1701	4.04	95	5	ND	3	29	1	2	3	54	.29	.13	11	30	.57	324	.06	2	2.10	.01	.11	1	35
LY 475S 500E	1	50	29	154	.1	35	14	2600	3.98	95	5	ND	3	43	1	6	2	55	.39	.17	19	24	.49	410	.05	15	1.99	.01	.17	1	21
LY 475S 525E	2	57	17	147	.2	33	13	1502	4.28	116	5	ND	3	24	1	4	3	60	.21	.17	18	30	.52	436	.05	5	2.05	.01	.12	2	17
LY 475S 550E	1	100	46	310	.5	63	27	3578	6.11	1076	5	ND	2	47	1	2	2	65	.43	.29	21	36	.65	496	.07	5	2.50	.01	.16	1	170
LY 475S 575E	3	127	22	282	.7	70	26	2435	6.49	749	5	ND	4	30	2	2	2	86	.33	.15	29	60	.92	415	.10	5	2.73	.01	.22	2	360
LY 475S 600E	3	206	28	212	.8	118	49	3306	7.78	1575	5	ND	5	26	1	12	2	99	.37	.17	27	100	1.88	371	.16	4	3.33	.02	.19	4	955
LY 475S 625E	8	438	57	148	5.1	91	73	4399	12.80	11848	5	3	3	38	1	16	2	133	.58	.10	49	104	2.58	242	.12	2	2.91	.02	.40	1	2800
LY 475S 650E	4	170	110	389	1.4	91	51	7029	5.75	225	5	ND	1	42	3	2	2	66	.58	.41	20	32	.54	808	.08	8	2.87	.02	.11	2	130
LY 475S 675E	5	141	181	451	1.7	84	34	7503	5.33	279	5	ND	3	52	5	3	2	44	.58	.29	23	22	.36	493	.09	8	2.49	.02	.10	1	155
LY 475S 700E	2	190	19	146	.7	76	31	2166	5.48	962	5	ND	3	25	1	2	2	68	.36	.10	22	58	1.00	241	.10	6	2.38	.01	.17	1	365
LY 475S 725E	2	173	22	159	.6	73	22	1196	4.68	870	5	ND	4	34	1	2	2	60	.70	.09	13	42	.82	193	.08	4	2.44	.02	.18	2	350
LY 475S 750E	2	265	56	209	1.2	55	30	2330	6.39	1476	5	ND	3	30	1	3	2	81	.37	.16	23	42	1.00	448	.10	5	2.88	.01	.14	2	355
LY 475S 775E	1	213	71	204	.6	50	28	1960	5.40	1697	5	ND	3	24	1	4	2	67	.34	.18	16	29	.79	574	.10	6	3.03	.02	.11	1	540
LY 475S 800E	2	207	46	234	.7	76	38	3691	5.82	2263	5	ND	2	39	1	5	2	64	.42	.19	15	35	.69	339	.08	7	2.38	.01	.14	1	1200
LY 475S 825E	1	141	30	379	.4	73	36	4638	4.84	739	5	ND	1	59	2	2	2	58	.76	.20	15	34	.65	480	.08	7	2.37	.01	.16	1	250
LY 475S 850E	2	79	102	405	.6	34	18	3227	3.79	567	5	ND	1	37	4	2	2	38	.51	.21	7	18	.36	292	.07	6	2.23	.02	.11	1	130
LY 475S 875E	4	192	131	279	2.1	57	32	3702	6.39	1304	5	ND	2	32	2	2	2	81	.43	.20	15	27	.70	284	.08	5	2.01	.02	.19	1	520
STD C/AU-0.5	20	59	39	135	7.0	65	28	1186	3.96	40	19	7	33	47	18	13	21	58	.48	.15	36	60	.88	181	.08	38	1.72	.06	.10	13	490

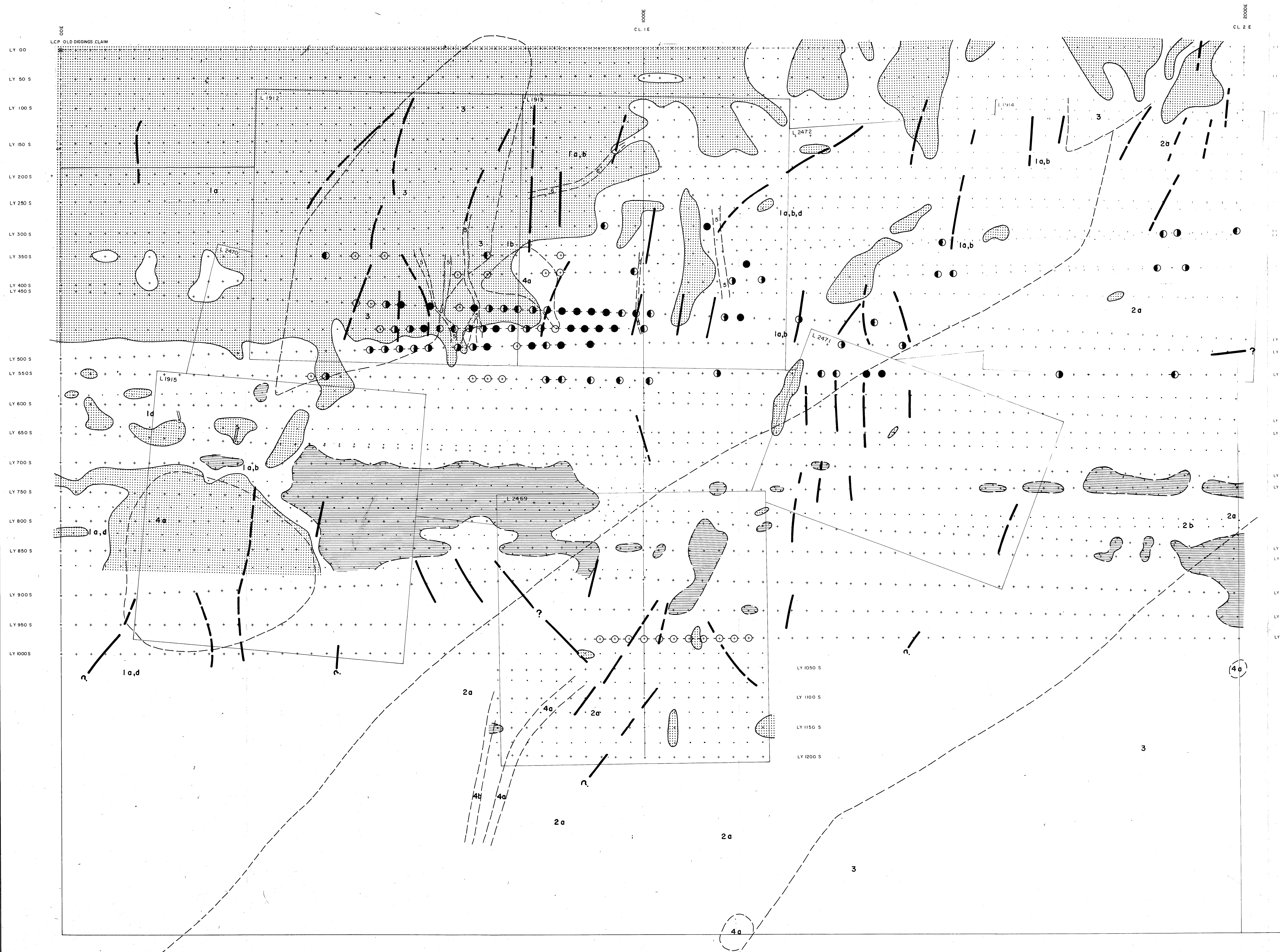
SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	PPM	PPB
LY 475S 900E	1	130	129	354	1.9	71	34	6613	5.89	924	5	ND	1	25	4	2	2	49	.21	.22	12	26	.45	314	.06	2	1.99	.01	.13	1	650
LY 475S 925E	1	172	163	478	2.8	117	36	6086	7.27	840	5	ND	3	50	5	4	2	56	.53	.26	28	43	.54	476	.07	5	2.09	.01	.17	1	605
LY 475S 950E	6	149	118	343	2.6	79	36	5852	6.22	497	5	ND	2	55	3	2	2	63	.50	.32	30	31	.48	910	.07	4	2.26	.01	.15	1	235
LY 475S 975E	1	133	34	242	.3	71	33	9815	5.29	147	5	ND	2	49	2	2	2	40	.53	.26	22	19	.36	372	.07	7	2.40	.01	.12	1	50
LY 475S 1000E	4	123	49	331	1.1	65	32	7946	6.42	217	5	ND	2	32	2	2	3	47	.27	.31	23	24	.39	316	.05	6	2.46	.01	.11	1	120
LY 500S 325E	2	47	15	154	.2	38	13	2200	3.22	54	5	ND	2	30	1	4	5	51	.31	.19	6	35	.48	438	.07	4	1.76	.01	.12	1	7
LY 500S 350E	3	44	18	182	.1	41	14	2439	3.32	50	5	ND	1	24	1	5	3	51	.24	.23	5	32	.50	423	.07	3	1.71	.01	.10	1	5
LY 500S 375E	1	49	19	190	.2	52	17	2433	3.57	60	5	ND	2	23	1	5	3	53	.21	.18	9	38	.54	426	.05	4	1.82	.01	.09	1	3
LY 500S 400E	2	81	22	345	.2	130	24	4412	5.39	61	5	ND	4	31	1	2	4	59	.27	.22	25	48	.48	546	.05	5	1.78	.01	.17	1	6
LY 500S 425E	5	123	26	296	.5	142	29	3094	6.26	84	5	ND	3	30	1	7	4	85	.26	.22	34	76	.70	521	.05	3	2.01	.01	.19	1	15
LY 500S 450E	1	60	15	145	.1	36	15	1940	4.30	141	5	ND	2	32	1	2	2	59	.30	.19	15	24	.56	404	.04	3	1.80	.01	.21	1	26
LY 500S 475E	1	59	22	175	.1	38	16	2400	3.86	94	5	ND	1	35	1	2	2	52	.32	.18	17	27	.52	504	.05	4	1.81	.01	.16	1	12
LY 500S 500E	2	49	19	154	.1	34	14	2211	3.65	71	5	ND	2	36	1	2	2	52	.34	.18	14	28	.50	510	.05	4	1.84	.01	.13	1	6
LY 500S 525E	1	125	39	366	.5	74	27	3276	6.08	734	5	ND	4	38	2	2	2	70	.46	.22	26	45	.77	442	.08	4	2.41	.01	.20	1	530
LY 500S 550E	4	172	25	220	.7	83	34	2092	7.65	1327	5	ND	4	40	2	2	2	85	.35	.19	39	63	1.15	415	.08	2	2.56	.01	.19	1	215
LY 500S 575E	4	186	29	127	.5	79	42	1938	6.83	1282	5	ND	2	30	1	9	2	109	.49	.13	30	101	2.07	448	.15	4	3.01	.01	.50	2	445
LY 500S 600E	1	226	20	117	.7	59	38	1891	5.82	642	5	ND	2	26	1	2	2	106	.45	.11	13	91	1.86	264	.14	5	3.06	.02	.23	1	260
LY 500S 625E	1	366	37	133	.2	85	62	2708	7.41	1184	5	ND	2	29	1	2	2	116	.71	.14	22	138	2.57	292	.19	5	3.62	.02	.37	1	715
LY 500S 675E	1	156	35	194	.4	71	28	2573	5.43	1418	5	ND	3	43	1	2	2	51	.52	.16	16	27	.62	383	.08	6	2.32	.02	.15	1	350
LY 500S 700E	1	172	26	154	.4	34	25	2693	4.16	1467	5	ND	2	57	1	2	3	46	.79	.21	7	19	.57	390	.08	4	2.61	.03	.11	2	550
LY 500S 725E	6	245	847	1381	7.5	56	30	2596	7.90	4955	5	4	3	52	17	14	3	55	.76	.18	30	26	.71	241	.04	4	1.59	.01	.12	1	3920
LY 500S 775E	2	77	36	306	.4	50	18	2228	3.69	276	5	ND	2	31	3	2	2	51	.43	.20	9	37	.61	301	.07	4	2.08	.01	.18	1	95
LY 500S 800E	4	226	337	340	1.8	65	34	3978	6.90	1057	5	ND	4	46	4	2	2	82	.51	.17	22	33	.75	347	.08	5	2.32	.01	.13	1	520
LY 500S 825E	1	71	109	329	1.0	41	17	5537	3.22	553	5	ND	3	74	4	2	2	31	.81	.29	3	12	.25	483	.05	6	2.16	.02	.07	1	105
LY 500S 850E	1	119	106	418	1.9	74	25	6149	4.95	737	5	ND	2	62	4	2	2	47	.70	.31	14	30	.45	553	.08	7	2.69	.02	.09	1	260
LY 500S 875E	1	64	69	299	.6	45	16	3961	2.81	126	5	ND	2	65	2	2	2	28	.80	.42	9	16	.28	524	.06	7	2.13	.02	.07	1	125
LY 500S 900E	4	141	225	385	1.9	88	32	5030	5.48	268	5	ND	2	71	3	2	2	55	.69	.39	16	34	.53	838	.07	5	2.03	.01	.16	1	240
LY 500S 950E	2	68	48	260	.5	53	20	3941	3.89	116	5	ND	2	48	2	2	2	49	.52	.31	10	34	.54	483	.06	7	1.91	.01	.17	1	50
LY 500S 975E	2	67	39	288	.1	40	22	7474	3.34	73	5	ND	2	103	2	2	4	30	1.28	.32	11	17	.38	612	.07	6	2.10	.02	.14	1	10
LY 500S 1000E	3	58	23	148	.1	39	13	1620	3.95	99	5	ND	4	34	1	2	2	57	.26	.19	18	42	.53	592	.06	3	1.76	.01	.14	1	13
LY 500S 1025E	1	60	16	172	.2	47	18	3138	3.34	58	5	ND	1	43	1	2	2	41	.58	.21	7	33	.57	446	.09	5	2.45	.02	.18	1	105
LY 500S 1050E	1	26	10	169	.1	26	11	2141	2.58	15	5	ND	2	57	1	2	2	35	.75	.53	3	24	.46	361	.10	6	2.58	.02	.13	1	2
LY 500S 1075E	1	82	33	194	.3	57	22	3114	4.66	86	5	ND	3	34	1	7	4	58	.35	.17	14	36	.70	486	.10	7	2.29	.02	.18	1	37
LY 500S 1100E	2	107	28	196	.7	58	25	5787	5.66	129	5	ND	2	48	1	2	2	46	.60	.27	17	26	.44	440	.05	3	2.02	.01	.15	1	35
LY 500S 1125E	4	107	114	188	.9	63	26	3073	5.36	109	5	ND	3	34	1	2	2	75	.33	.16	19	53	.98	430	.11	3	2.40	.01	.33	1	165
LY 500S 1150E	3	122	35	215	.7	85	33	5340	5.61	108	5	ND	3	59	2	2	2	64	.60	.26	21	48	.83	511	.10	7	2.89	.01	.25	1	135
STD C/AU-0.5	20	58	38	135	7.0	68	28	1176	3.96	40	18	9	33	47	18	15	21	58	.48	.16	39	56	.88	179	.08	37	1.72	.06	.11	14	505

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 500S 1175E	4	155	22	207	.9	100	31	5741	6.48	151	5	ND	3	47	1	2	2	83	.41	.20	21	55	.93	527	.12	7	2.83	.02	.29	1	90
LY 500S 1200E	4	98	33	338	.5	82	25	9287	5.01	70	5	ND	2	76	1	2	2	42	.87	.43	19	22	.35	454	.06	12	2.43	.02	.12	1	11
LY 500S 1225E	4	160	29	311	.7	139	31	5417	5.91	92	5	ND	3	52	2	2	2	64	.44	.25	30	45	.66	406	.13	9	3.35	.02	.25	1	42
LY 500S 1250E	1	140	27	321	.7	117	28	4120	5.27	81	5	ND	3	61	2	2	2	73	.67	.32	27	66	.94	524	.12	8	3.21	.02	.31	1	75
LY 500S 1275E	1	110	34	380	.5	90	27	3749	5.32	100	5	ND	3	51	2	2	3	81	.53	.32	23	53	.81	538	.12	8	3.00	.02	.26	1	55
LY 500S 1300E	1	73	28	209	.5	54	19	2846	3.94	50	5	ND	2	63	1	2	2	55	.76	.23	17	36	.59	524	.06	8	2.91	.01	.24	1	27
LY 500S 1325E	2	91	43	219	.6	83	26	3476	5.38	129	5	ND	4	49	1	2	2	71	.49	.19	18	43	.65	604	.11	5	2.94	.02	.27	1	290
LY 500S 1350E	1	86	29	230	.1	59	20	2698	4.10	51	5	ND	2	23	1	2	2	58	.28	.14	12	35	.54	281	.09	8	2.37	.02	.12	1	42
LY 500S 1375E	1	70	20	223	.1	56	19	2620	3.94	40	5	ND	3	37	2	2	2	57	.37	.18	13	36	.63	371	.10	8	2.70	.02	.17	1	30
LY 500S 1400E	1	86	36	241	.5	66	23	3143	4.56	76	5	ND	3	27	1	2	2	65	.28	.17	17	43	.67	324	.11	10	2.48	.01	.14	1	125
LY 500S 1425E	2	135	45	160	.8	74	23	3859	6.75	203	5	ND	3	47	1	2	2	63	.46	.21	18	42	.61	539	.07	7	2.60	.01	.20	1	560
LY 500S 1450E	1	58	17	121	.2	36	13	1429	4.07	74	5	ND	3	28	1	2	2	58	.22	.13	10	35	.54	266	.10	8	1.87	.01	.11	1	70
LY 500S 1475E	1	49	22	122	.1	29	11	1717	3.29	39	5	ND	1	22	1	2	2	51	.22	.19	5	33	.45	229	.05	6	1.64	.01	.10	1	26
LY 500S 1500E	1	59	24	121	.1	36	15	2035	4.00	56	5	ND	1	16	1	4	2	60	.12	.16	9	39	.55	266	.10	6	2.00	.01	.13	1	33
LY 500S 1525E	1	61	32	120	.3	33	15	1868	4.09	71	5	ND	2	24	1	5	2	60	.21	.15	13	36	.56	327	.07	7	1.96	.01	.15	1	75
LY 500S 1550E	1	64	20	107	.1	35	14	1357	3.98	65	5	ND	2	19	1	2	2	62	.15	.13	8	37	.59	268	.09	8	2.07	.01	.11	1	4
LY 500S 1575E	1	53	14	109	.1	31	15	1981	3.53	52	5	ND	2	36	1	2	2	56	.37	.20	8	36	.59	398	.09	7	2.06	.01	.14	1	80
LY 500S 1600E	1	58	26	107	.1	33	15	1786	3.69	55	5	ND	1	23	1	2	2	59	.21	.17	6	36	.63	329	.10	7	2.19	.01	.12	1	22
LY 500S 1625E	1	59	19	115	.1	36	15	1961	3.80	55	5	ND	1	25	1	2	2	62	.27	.15	8	38	.67	368	.10	5	2.12	.01	.15	1	20
LY 500S 1650E	1	52	22	132	.3	31	16	1973	3.60	46	5	ND	1	30	1	2	2	58	.35	.16	8	34	.61	349	.10	7	2.15	.02	.13	1	31
LY 500S 1675E	1	72	40	187	.5	54	19	1381	4.46	56	5	ND	2	20	1	2	2	71	.23	.16	9	56	.82	336	.11	7	2.39	.01	.15	1	29
LY 500S 1700E	1	55	20	105	.1	35	14	1289	3.68	46	5	ND	3	19	1	2	2	58	.24	.11	10	42	.60	282	.10	6	1.95	.02	.11	1	32
LY 500S 1725E	1	66	17	106	.2	35	17	1915	4.06	52	5	ND	2	18	1	2	2	60	.17	.13	9	41	.62	301	.09	6	1.92	.01	.13	1	50
LY 500S 1750E	1	52	17	114	.4	31	14	1687	3.66	51	5	ND	3	18	1	2	2	55	.15	.16	8	34	.51	259	.09	6	2.06	.01	.10	1	35
LY 500S 1775E	1	57	14	120	.4	35	14	1484	3.81	53	5	ND	1	20	1	2	2	56	.20	.14	7	35	.55	279	.07	6	1.76	.01	.14	1	175
LY 500S 1800E	1	55	15	108	.2	32	14	1492	3.51	48	5	ND	2	22	1	2	2	50	.22	.15	8	32	.50	281	.06	6	1.53	.01	.13	1	41
LY 500S 1825E	1	60	17	163	.1	38	15	1748	3.75	54	5	ND	2	20	2	2	2	58	.17	.19	7	38	.56	275	.07	6	2.08	.01	.12	1	50
LY 500S 1850E	1	62	19	159	.2	44	16	1953	3.98	62	5	ND	1	24	1	2	2	62	.25	.21	10	49	.65	342	.08	7	1.87	.01	.16	1	30
LY 500S 1875E	1	61	26	182	.2	48	18	1898	3.85	66	5	ND	3	36	2	3	2	67	.35	.20	12	61	.74	408	.09	9	2.22	.01	.14	1	22
LY 500S 1900E	2	57	20	134	.1	37	15	1620	3.57	48	5	ND	1	21	1	2	4	58	.19	.17	9	45	.57	257	.09	7	2.08	.02	.08	1	21
LY 500S 1925E	1	50	23	157	.4	39	14	1868	3.19	41	5	ND	1	16	1	2	2	59	.17	.20	4	55	.59	246	.09	7	2.22	.01	.07	1	23
LY 500S 1950E	1	55	24	192	.3	37	14	2499	3.41	108	5	ND	2	20	1	3	2	56	.18	.20	6	42	.54	276	.10	8	2.73	.02	.08	1	12
LY 500S 1975E	1	68	33	273	.6	69	15	6939	3.68	85	5	ND	2	19	2	2	2	61	.17	.19	8	54	.64	351	.10	6	2.71	.02	.11	1	25
LY 500S 2000E	1	67	20	210	.4	41	14	3546	3.26	52	5	ND	1	26	1	2	2	51	.24	.20	7	33	.47	257	.07	5	2.32	.01	.09	1	60
LY 550S 0E	1	104	12	258	.1	91	24	3370	4.26	53	5	ND	2	39	1	2	2	67	.40	.14	20	51	.74	437	.09	8	2.54	.02	.15	1	6
LY 550S 25E	2	71	14	167	.1	68	19	2572	4.00	38	5	ND	3	17	1	2	2	70	.14	.09	14	50	.64	281	.10	6	2.48	.01	.08	1	9
STD C/AU-0.5	20	60	40	138	7.0	67	28	1209	3.97	40	18	8	33	49	19	14	22	59	.48	.16	36	59	.88	175	.08	38	1.72	.06	.11	13	500

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 550S 50E	4	65	17	197	.3	51	17	3132	4.05	62	5	ND	4	22	1	4	2	58	.18	.11	20	35	.52	315	.09	5	2.21	.02	.09	1	80
LY 550S 75E	2	45	14	135	.4	34	10	1666	4.16	151	5	ND	2	36	1	2	2	57	.31	.15	14	33	.44	340	.06	4	1.86	.02	.10	1	17
LY 550S 100E	3	45	14	178	.4	39	13	1976	3.32	37	5	ND	2	26	1	2	2	59	.22	.13	11	34	.52	351	.09	4	2.23	.02	.08	1	6
LY 550S 125E	2	50	14	149	.3	43	16	2484	3.88	47	5	ND	2	21	1	2	2	62	.23	.18	13	41	.62	325	.08	4	2.15	.02	.09	1	4
LY 550S 150E	1	37	13	133	.3	31	11	1936	3.24	52	5	ND	1	19	1	2	2	54	.19	.18	8	30	.47	280	.05	3	1.86	.02	.07	1	7
LY 550S 175E	1	44	14	130	.2	36	13	2357	3.31	50	5	ND	2	17	1	2	2	53	.19	.20	9	31	.48	274	.07	3	2.28	.02	.10	1	11
LY 550S 200E	2	39	10	107	.2	36	12	1718	3.49	66	5	ND	1	17	1	2	2	56	.20	.13	12	45	.67	269	.07	5	1.63	.02	.14	1	10
LY 550S 225E	2	43	13	143	.3	37	13	2140	3.29	39	5	ND	1	18	1	2	2	55	.17	.23	11	37	.51	279	.08	5	2.36	.01	.07	1	8
LY 550S 250E	4	42	15	141	.3	37	13	2046	3.25	42	5	ND	1	16	1	2	2	54	.16	.22	12	38	.49	268	.08	5	2.33	.02	.07	3	3
LY 550S 275E	2	41	12	144	.1	36	13	1598	3.40	28	5	ND	2	21	1	2	2	55	.23	.25	10	37	.52	306	.08	3	1.93	.01	.08	1	2
LY 550S 300E	2	34	15	121	.1	30	12	1533	2.99	31	5	ND	1	26	1	2	2	48	.28	.20	8	31	.48	278	.07	3	1.75	.01	.08	1	4
LY 550S 325E	3	61	15	166	.1	44	17	2100	3.88	75	5	ND	1	27	1	2	2	57	.24	.19	19	41	.58	449	.05	5	1.74	.02	.10	1	9
LY 550S 350E	3	64	17	172	.2	46	18	2126	3.96	83	5	ND	2	40	1	2	2	59	.35	.17	18	44	.66	563	.06	3	1.93	.01	.14	1	6
LY 550S 375E	4	57	29	184	.1	46	17	3103	3.59	71	5	ND	2	42	1	2	2	55	.45	.20	15	48	.67	649	.05	4	1.64	.01	.17	1	2
LY 550S 400E	3	55	19	171	.2	42	17	2675	3.58	94	5	ND	2	34	1	2	2	57	.34	.24	13	41	.64	564	.06	4	1.98	.02	.13	1	6
LY 550S 425E	3	56	18	196	.2	60	28	3139	4.44	361	5	ND	1	42	2	4	2	69	.40	.20	18	42	.78	584	.05	4	2.40	.02	.15	2	135
LY 550S 450E	2	51	19	217	.3	61	36	2858	5.08	498	5	ND	1	36	1	2	2	73	.36	.21	22	36	.75	571	.04	5	2.23	.01	.17	1	605
LY 550S 475E	3	103	19	258	.5	92	25	3375	4.47	48	5	ND	4	39	1	2	2	68	.41	.14	23	49	.76	447	.09	5	2.53	.01	.16	1	11
LY 550S 500E	1	67	17	158	.2	42	17	2257	4.01	113	5	ND	3	30	1	2	2	55	.32	.21	18	36	.59	485	.06	4	1.79	.01	.16	1	14
LY 550S 525E	2	69	17	159	.1	44	18	2315	4.09	120	5	ND	2	30	1	4	2	56	.31	.21	19	40	.61	493	.06	3	1.84	.01	.16	1	11
LY 550S 550E	1	100	18	181	.1	52	24	2814	4.96	116	5	ND	1	34	1	2	2	72	.51	.13	20	42	.72	814	.03	4	1.48	.01	.14	1	8
LY 550S 575E	1	109	20	152	.4	54	23	2027	5.79	199	5	ND	3	22	1	2	2	76	.38	.14	28	55	.74	429	.05	4	1.83	.01	.20	1	44
LY 550S 600E	2	76	13	127	.1	41	19	1589	4.32	172	5	ND	2	22	1	2	2	64	.26	.20	17	43	.77	337	.09	4	1.91	.01	.17	1	33
LY 550S 625E	2	99	17	125	.1	43	21	2097	4.21	189	5	ND	1	35	1	2	2	65	.55	.19	17	47	.96	411	.09	6	2.10	.01	.18	2	49
LY 550S 650E	1	73	11	128	.2	40	18	2096	3.82	134	5	ND	1	36	1	2	2	56	.54	.15	14	42	.73	385	.08	3	1.86	.02	.14	1	32
LY 550S 675E	1	54	46	163	.1	30	15	1976	2.98	232	5	ND	1	23	1	2	2	43	.39	.17	8	31	.54	257	.07	4	2.07	.02	.07	1	75
LY 550S 700E	2	52	17	147	.2	37	14	1995	2.38	552	5	ND	1	30	1	2	2	30	.55	.20	5	19	.33	231	.04	4	1.72	.03	.07	1	22
LY 550S 725E	4	85	21	139	.1	44	18	1852	3.82	633	5	ND	1	30	1	6	2	54	.34	.20	14	37	.67	312	.08	4	2.22	.02	.09	3	53
LY 550S 750E	2	78	28	292	.3	49	20	2453	4.03	388	5	ND	2	29	2	2	2	56	.40	.14	13	36	.65	293	.08	5	2.25	.02	.15	1	70
LY 550S 775E	2	145	24	209	.2	42	23	2502	4.40	233	5	ND	1	23	2	2	2	56	.29	.20	14	39	.68	303	.07	3	2.19	.02	.17	1	50
LY 550S 800E	1	65	39	186	.4	37	18	2337	3.99	233	5	ND	1	31	1	2	2	58	.40	.17	14	36	.67	306	.07	4	2.20	.02	.13	1	50
LY 550S 825E	7	133	66	444	1.0	129	50	10443	7.76	429	5	ND	1	33	3	4	2	58	.39	.29	31	36	.60	520	.06	5	2.28	.01	.17	1	235
LY 550S 850E	1	107	58	317	1.4	82	32	6046	5.74	305	5	ND	1	43	3	2	2	58	.46	.23	22	38	.64	559	.06	4	2.48	.01	.15	1	115
LY 550S 875E	2	70	45	220	.8	44	17	2942	3.57	181	5	ND	1	45	3	2	2	47	.49	.26	13	31	.53	467	.07	5	2.22	.02	.12	1	85
LY 550S 900E	4	91	73	278	1.2	56	25	4105	4.53	170	5	ND	1	44	3	3	2	56	.45	.30	19	38	.59	593	.06	6	2.33	.02	.14	1	90
LY 550S 925E	2	55	34	207	.3	44	16	2663	3.85	106	5	ND	1	28	2	3	2	54	.33	.22	12	40	.61	605	.06	7	1.84	.02	.18	1	51
STD C/AU-0.5	19	58	39	139	7.0	67	28	1188	3.97	39	17	8	33	48	18	16	23	58	.48	.15	37	57	.88	176	.08	39	1.72	.07	.11	14	495

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 550S 950E	3	98	60	309	1.6	69	26	4522	5.47	205	5	ND	1	41	2	3	2	66	.36	.28	25	38	.59	523	.06	8	2.33	.02	.15	1	140
LY 550S 975E	3	53	23	155	.4	38	16	2637	3.27	88	5	ND	1	38	1	2	2	50	.41	.20	12	31	.53	334	.09	7	2.34	.02	.08	2	18
LY 550S 1000E	1	49	21	168	30.2	29	14	3523	2.65	39	5	ND	1	52	1	2	3	39	.64	.31	10	24	.43	364	.06	9	1.96	.02	.09	1	7
LY 550S 1025E	2	52	17	144	.4	34	14	2014	3.23	49	5	ND	1	25	1	2	2	48	.27	.18	13	29	.49	289	.10	7	2.42	.02	.08	1	41
LY 550S 1050E	1	58	20	192	.4	44	20	3331	3.51	41	5	ND	1	45	1	2	2	52	.51	.29	13	36	.70	426	.10	8	2.61	.02	.12	2	10
LY 550S 1075E	2	71	25	144	.3	45	19	2420	3.72	79	5	ND	1	58	1	2	3	59	.78	.21	17	46	.76	546	.08	9	2.01	.01	.18	2	23
LY 550S 1100E	2	64	33	196	.4	49	19	3337	4.08	63	5	ND	1	39	1	2	2	57	.46	.18	17	38	.63	441	.09	8	2.42	.01	.15	1	90
LY 550S 1125E	2	69	25	133	.5	47	18	2216	3.89	78	5	ND	1	31	1	2	2	63	.29	.16	16	42	.71	433	.09	7	2.20	.01	.15	1	670
LY 550S 1150E	1	63	21	124	.3	39	14	1955	3.43	71	5	ND	1	32	1	2	3	53	.33	.18	14	39	.58	368	.07	6	1.85	.02	.13	1	80
LY 550S 1175E	2	71	18	244	.3	58	20	5378	3.73	58	5	ND	1	62	1	2	2	52	.75	.27	13	37	.53	560	.06	9	2.21	.02	.13	1	16
LY 550S 1200E	2	33	18	161	.2	27	11	3967	2.44	28	5	ND	1	49	1	2	2	35	.50	.32	9	22	.29	357	.07	7	2.30	.03	.06	1	17
LY 550S 1225E	1	44	33	125	.6	34	12	2269	2.96	46	5	ND	1	31	1	2	2	42	.37	.19	10	45	.53	297	.06	9	1.58	.02	.15	1	190
LY 550S 1250E	1	56	25	177	.5	39	16	2541	3.13	66	5	ND	1	43	1	2	2	47	.57	.23	13	35	.55	329	.05	9	1.79	.02	.13	1	36
LY 550S 1275E	2	61	19	135	.3	43	16	2413	3.65	77	5	ND	1	41	1	2	2	59	.43	.15	12	40	.63	411	.06	8	1.77	.01	.15	1	55
LY 550S 1300E	6	133	39	272	1.6	71	25	3699	6.06	122	5	ND	2	42	1	3	2	86	.38	.26	27	49	.71	570	.09	8	2.25	.01	.18	1	95
LY 550S 1325E	4	135	31	300	1.1	92	27	5615	5.76	110	5	ND	1	55	1	5	2	52	.61	.31	25	38	.56	389	.06	11	2.27	.02	.15	1	135
LY 550S 1350E	2	50	16	99	.4	41	12	1597	3.20	51	5	ND	1	20	1	3	3	38	.21	.12	14	44	.52	220	.05	9	1.19	.01	.18	1	26
LY 550S 1375E	5	139	117	337	2.6	82	31	6047	6.35	226	5	ND	1	64	3	7	3	54	.58	.29	31	35	.60	354	.07	9	2.27	.02	.18	1	305
LY 550S 1400E	4	121	176	343	2.0	79	32	4080	6.39	193	5	ND	1	65	3	5	2	69	.54	.33	33	38	.96	565	.12	10	2.66	.02	.36	1	290
LY 550S 1425E	1	64	69	350	.5	40	18	3178	4.11	71	5	ND	1	31	4	2	2	52	.33	.17	13	29	.48	294	.08	7	1.93	.01	.10	1	85
LY 550S 1450E	1	59	21	117	.2	42	15	2059	3.81	55	5	ND	1	24	1	2	2	62	.22	.12	13	43	.67	322	.09	8	2.10	.01	.13	1	36
LY 550S 1475E	1	55	20	111	.3	36	13	1560	3.76	59	5	ND	2	17	1	2	2	61	.18	.12	11	39	.60	259	.09	8	1.92	.01	.09	1	32
LY 550S 1500E	1	58	19	113	.4	34	15	1682	3.72	59	5	ND	1	25	1	3	2	59	.22	.17	15	37	.58	327	.07	7	1.92	.02	.12	1	60
LY 550S 1525E	1	53	13	97	.3	46	12	1580	3.20	41	5	ND	1	20	1	3	2	40	.24	.13	15	52	.52	234	.05	10	1.23	.02	.20	1	20
LY 550S 1550E	4	58	17	142	.2	40	15	1624	3.93	98	5	ND	1	27	1	2	3	58	.27	.12	16	38	.58	398	.07	5	1.65	.02	.11	1	17
LY 550S 1575E	2	38	13	114	.5	30	11	1944	3.03	44	5	ND	1	14	1	2	2	53	.12	.18	10	32	.41	201	.07	6	2.15	.02	.05	1	6
LY 550S 1600E	1	53	19	120	.4	35	15	1947	3.57	44	5	ND	1	30	1	2	2	61	.30	.17	11	41	.67	376	.09	8	2.24	.01	.10	1	12
LY 550S 1625E	1	47	17	110	.4	32	14	1721	3.38	42	5	ND	1	28	1	2	2	56	.36	.14	11	35	.59	298	.08	5	1.82	.02	.10	1	14
LY 550S 1650E	2	53	29	170	.7	38	14	1298	3.68	49	5	ND	1	26	2	3	2	60	.34	.14	11	39	.60	273	.07	8	2.10	.01	.11	1	42
LY 550S 1675E	4	67	26	162	.6	51	16	2190	3.99	95	5	ND	1	29	1	2	2	53	.30	.16	15	50	.57	308	.07	8	1.80	.02	.16	1	28
LY 550S 1700E	4	62	23	381	.6	68	16	1540	3.99	52	5	ND	1	28	3	3	2	71	.54	.17	15	58	.81	420	.06	7	2.12	.02	.11	1	725
LY 550S 1725E	2	54	30	244	.6	48	14	1434	3.64	81	5	ND	1	25	2	2	2	60	.35	.15	12	42	.63	324	.07	6	1.93	.02	.09	1	50
LY 550S 1750E	2	56	23	157	.6	38	14	1377	3.69	47	5	ND	1	18	1	2	2	61	.23	.14	12	38	.60	246	.08	5	1.97	.01	.15	1	29
LY 550S 1775E	3	67	27	173	.5	58	15	1399	3.88	55	5	ND	1	20	1	2	3	67	.31	.18	12	60	.68	314	.07	7	1.79	.01	.15	1	55
LY 550S 1800E	3	50	15	171	.2	37	14	1538	3.54	52	5	ND	1	20	1	2	3	55	.23	.17	11	37	.57	257	.06	4	1.85	.01	.15	1	12
LY 550S 1825E	2	57	26	209	.4	41	17	2171	3.78	64	5	ND	1	24	3	2	3	59	.22	.25	15	40	.61	325	.07	6	1.99	.01	.11	1	42
STD C/AU-0.5	20	59	41	137	7.0	68	27	1164	3.91	40	19	8	32	47	18	14	23	60	.46	.15	39	57	.88	175	.08	40	1.72	.06	.09	14	515

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
LY 550S 1850E	2	53	21	159	.2	36	14	1612	3.71	74	5	ND	1	20	1	2	2	56	.21	.16	9	36	.54	247	.07	4	1.91	.01	.10	1	42
LY 550S 1875E	1	51	59	155	.9	34	13	1577	3.58	181	5	ND	1	20	1	5	2	53	.18	.14	9	32	.46	227	.07	5	1.88	.01	.07	1	28
LY 550S 1900E	1	60	105	161	2.0	34	13	2050	3.77	384	5	ND	2	20	1	10	4	51	.16	.14	12	31	.45	256	.07	6	1.81	.01	.09	1	44
LY 550S 1925E	2	56	55	165	.8	35	13	1900	3.51	188	5	ND	1	27	1	8	2	50	.22	.19	11	32	.49	324	.07	5	1.72	.01	.11	2	34
LY 550S 1950E	3	64	21	185	.2	56	18	2239	3.62	53	5	ND	1	26	2	2	2	65	.25	.21	7	63	.73	407	.07	6	2.28	.01	.12	2	22
LY 550S 1975E	2	79	33	301	.3	104	25	2480	4.38	66	5	ND	1	35	2	2	3	92	.40	.24	11	136	1.22	571	.09	5	2.60	.02	.20	1	26
LY 550S 2000E	3	65	33	230	.1	63	21	2369	3.94	114	5	ND	1	31	2	2	2	69	.33	.22	9	77	.86	420	.06	5	2.43	.01	.14	1	38
LY 1000S 850E	2	50	22	92	.4	28	8	355	3.61	97	5	ND	2	14	1	2	3	67	.10	.08	3	35	.48	133	.16	5	2.46	.02	.06	1	14
LY 1000S 875E	1	24	18	77	.3	17	8	407	2.28	57	5	ND	1	19	1	2	3	44	.15	.06	3	20	.33	92	.11	3	1.76	.02	.03	1	6
LY 1000S 900E	1	30	17	58	.1	14	4	156	2.52	116	9	ND	2	9	1	5	2	46	.07	.05	2	19	.23	68	.13	3	2.37	.02	.02	2	9
LY 1000S 925E	4	71	23	71	.1	27	7	343	4.97	401	5	ND	1	10	1	2	2	73	.07	.09	4	48	.51	97	.17	3	1.99	.01	.06	2	18
LY 1000S 950E	2	31	21	59	.4	15	4	190	3.04	296	5	ND	2	10	1	2	2	53	.06	.06	2	24	.27	81	.13	3	2.18	.01	.04	1	14
LY 1000S 975E	3	55	29	93	.6	24	7	346	3.66	288	5	ND	2	12	1	2	3	61	.08	.10	2	32	.39	128	.13	3	2.52	.01	.04	2	42
LY 1000S 1000E	2	45	33	123	.3	33	13	649	3.87	354	5	ND	4	17	1	2	2	68	.14	.07	7	39	.60	157	.14	5	2.41	.01	.08	1	19
LY 1000S 1025E	1	35	24	78	.4	20	7	270	3.21	343	5	ND	2	13	1	2	3	57	.11	.08	3	25	.41	92	.12	4	2.18	.02	.05	1	16
LY 1000S 1050E	1	42	23	103	.4	28	15	713	3.33	536	5	ND	2	22	1	5	2	58	.22	.09	9	34	.57	150	.11	3	2.25	.02	.06	1	29
LY 1000S 1075E	2	51	20	122	.5	37	11	610	3.15	523	5	ND	2	22	1	2	2	57	.27	.06	11	39	.62	131	.13	4	2.41	.02	.05	1	18
LY 1000S 1100E	4	42	22	93	.2	31	9	351	3.91	450	5	ND	2	14	1	2	4	68	.12	.06	10	42	.63	127	.12	5	2.67	.01	.07	1	60
LY 1000S 1125E	2	39	20	90	.5	27	13	390	3.66	373	5	ND	3	15	1	2	2	63	.14	.07	9	40	.59	129	.12	4	2.50	.02	.06	1	12
LY 1000S 1150E	1	55	22	114	.7	44	15	744	4.02	314	8	ND	4	19	1	2	3	73	.31	.07	11	46	.80	190	.14	5	2.88	.01	.08	1	10
LY 1000S 1175E	1	55	21	95	.5	38	15	621	4.12	423	5	ND	3	14	1	3	5	74	.18	.07	16	50	.77	182	.13	3	2.65	.01	.09	1	17
LY 1000S 1200E	1	46	14	98	.4	33	12	514	3.61	224	6	ND	2	13	1	4	2	64	.17	.10	8	41	.61	158	.13	4	2.46	.01	.06	2	21
STD C/AU-0.5	20	61	39	138	6.9	67	28	1214	3.97	40	21	8	35	48	19	14	23	59	.48	.16	37	60	.88	175	.08	38	1.72	.07	.11	14	515



LEGEND

GOLD ANOMALIES (>200 ppb)

SILVER ANOMALIES (>1.0 ppm)

ARSENIC ANOMALIES (>250 ppm)

AXIS OF EM CONDUCTOR

MAGNETIC HIGH (>57,200 gammas)

MAGNETIC LOW (<56,700 gammas)

GEOLOGICAL CONTACT

6	TRACHYTE DYKE
5	INTERMEDIATE DYKE
4	a DIORITE , b GABBRO
3	OLD TOM FORMATION: basalt, andesite, minor sediments
2	SHOEMAKER FORMATION : a chert b limestone
1	INDEPENDENCE FORMATION : a chert b chert breccia c argillite d greenstone

N

SCALE 1:2500

0 50 100 200 METRES

GEOLOGICAL BRANCH ASSESSMENT REPORT

14,651

TO ACCOMPANY REPORT BY F. DI SPIRITO B.A.Sc. P. ENG.

YUNIMAN PROJECT

FOR: TOBY CREEK RESOURCES LTD.

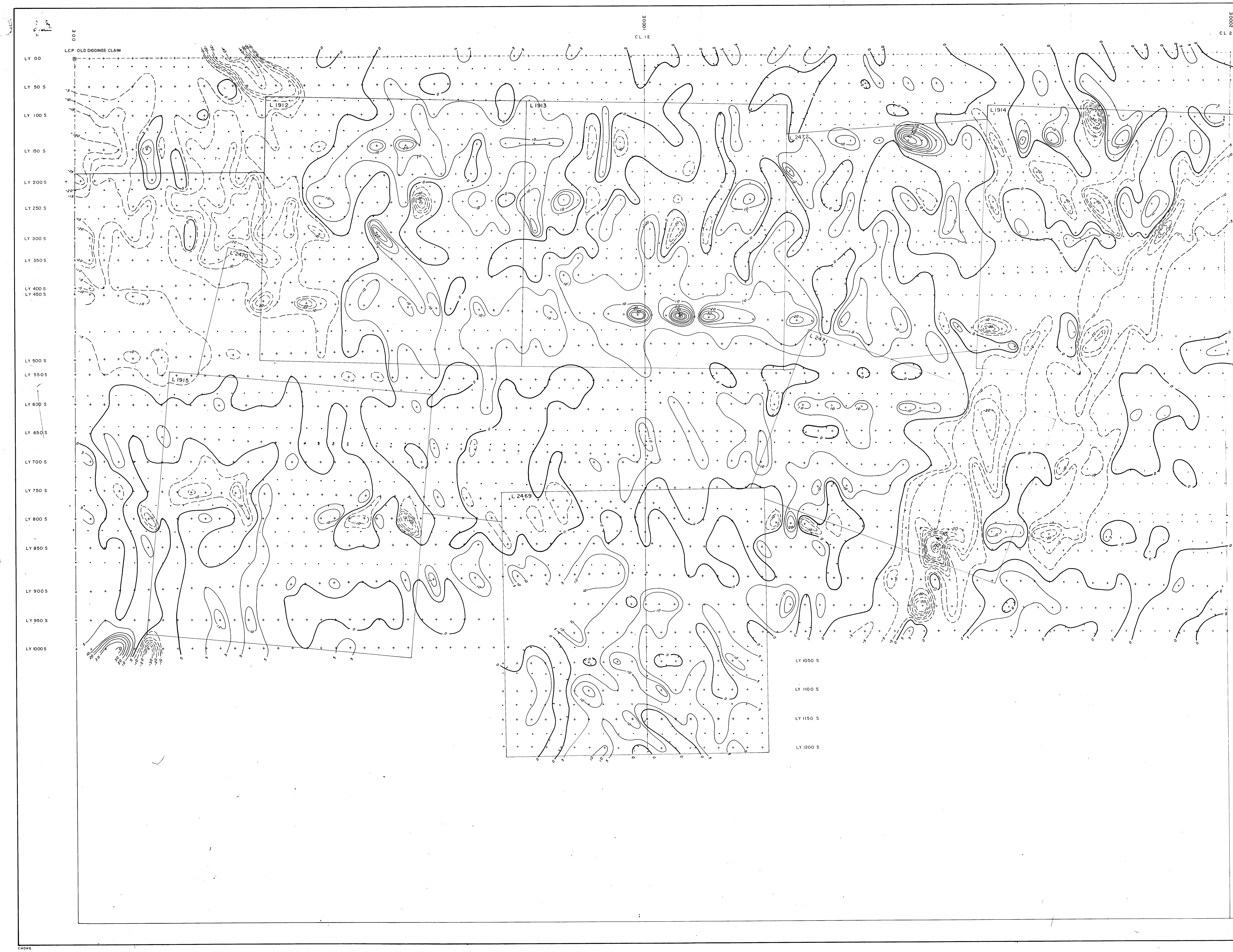
BY: SHANGRI-LA MINERALS LIMITED

COMPILATION MAP

OSOYOOS M.D., B.C.

N.T.S. 82E / 5W	DATE : NOVEMBER 1985
DRAWN BY : M.R.	FIGURE Nº. 2

CHONG



\+ PICKETED STATION ON CUT LINE

· FLAGGED STATION

—— POSITIVE CONTOUR

- - - NEGATIVE CONTOUR

CONTOUR INTERVAL AT 5 DEGREE

SCALE 1:2500

0 50 100 200 METRES

GEOLOGICAL BRANCH ASSESSMENT REPORT

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YUNIMAN PROJECT

FOR TOBY CREEK RESOURCES LTD.

BY SHANGRI-LA MINERALS LIMITED

HORIZONTAL LOOP EM
MEDIUM FREQUENCY (1830 HERTZ)

OSOYOOS M.D., B.C.

N.T.S. 82E/5W	DATE : NOVEMBER 1985
DRAWN BY :	FIGURE No. 3

GEOLOGICAL BRANCH
ASSESSMENT REPORT

TO ACCOMPANY REPORT BY F. DI SPIRITO B.A.Sc., P. ENG.

14,651

YUNIMAN PROJECT

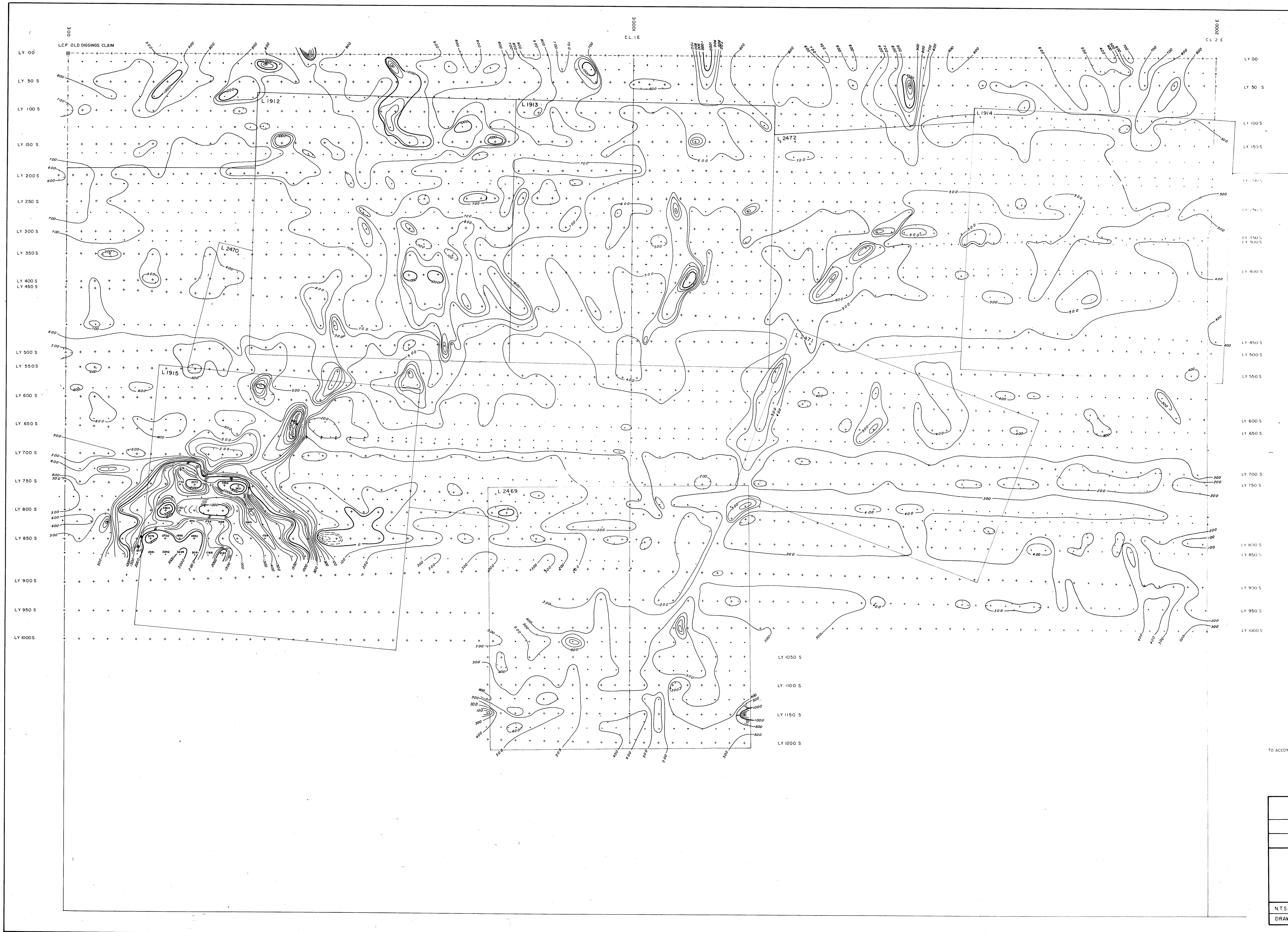
FOR: TOBY CREEK RESOURCES LTD.

BY: SHANGRI-LA MINERALS LIMITED

HORIZONTAL LOOP EM
HIGH FREQUENCY (5010 HERTZ)

OSOYOOS M.D., B.C.

N.T.S. 82E/5W	DATE: NOVEMBER 1985
DRAWN BY:	FIGURE Nº. 4



LEGEND

+ PICKETED STATION ON CUT LINE

· FLAGGED STATION

CONTOURS AT 100 GAMMAS INTERVAL
BASE VALUE AT 56,500 GAMMAS.

SCALE 1:2500

0 50 100 200 METRES

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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YUNIMAN PROJECT

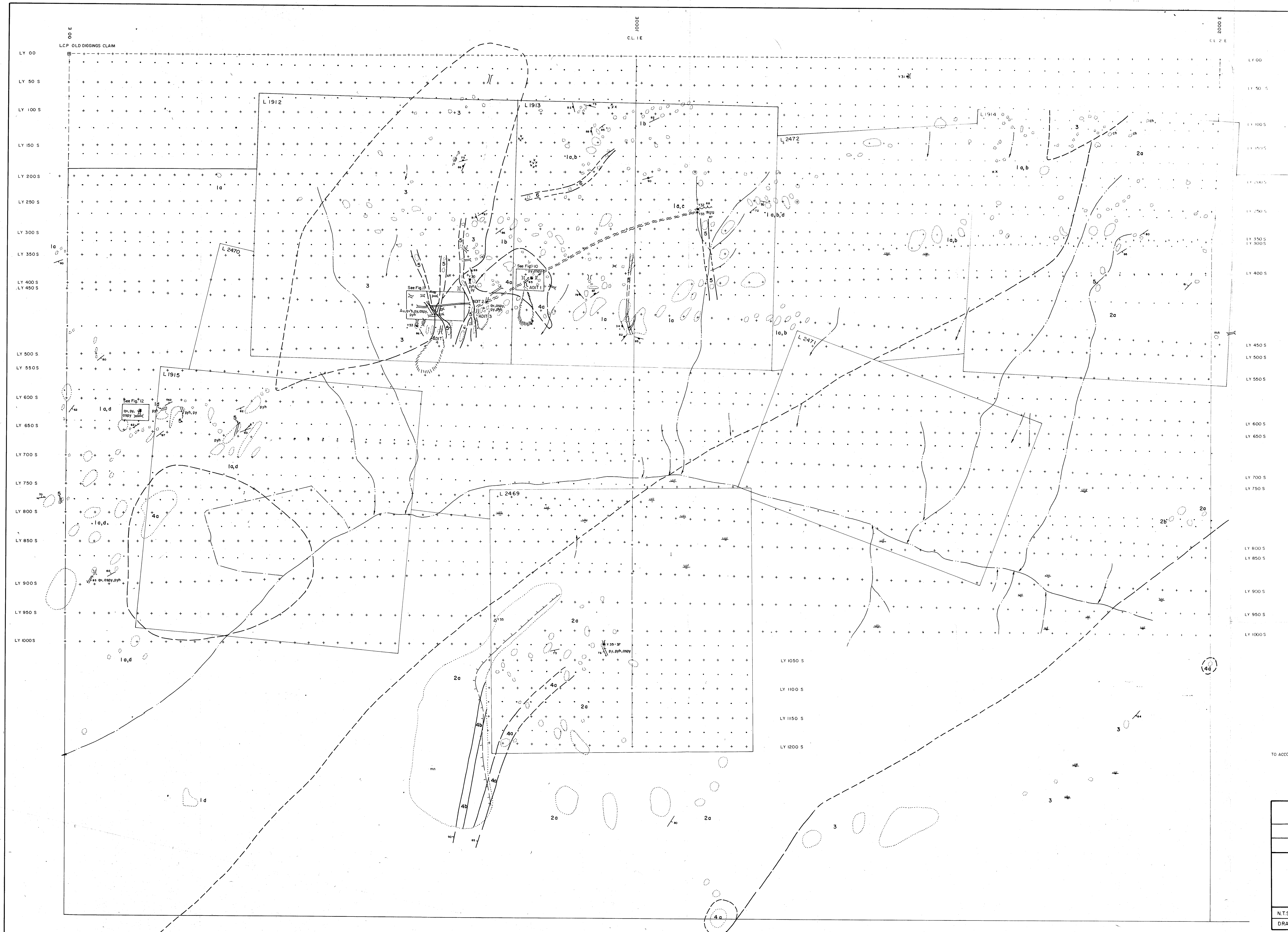
FOR: TOBY CREEK RESOURCES LTD.

BY: SHANGRI-LA MINERALS LIMITED

MAGNETOMETER SURVEY

OSOYOOS M.D., B.C.

N.T.S. 82E/5W	DATE: NOVEMBER 1985
DRAWN BY:	FIGURE No. 5



LEGEND

6	TRACHYTE DYKE
5	INTERMEDIATE DYKE
4	a. DIORITE : b GABBRO
3	OLD TOM FORMATION: basalt, andesite, minor sediment
2	SHOEMAKER FORMATION : a chert ; b limestone
1	INDEPENDENCE FORMATION : a chert ; b chert breccia ; c argillite ; d greenstone

SYMBOLS

BEDDING : inclined, vertical
CLEARAGE
FRACTURE : inclined, vertical
SHEAR , ASSUMED CONTINUATION OF SHEAR ZONE
BEDDING WITH PLUNGE OF SLICKENSIDES
FAULT - defined, approx.
GEOLOGICAL CONTACT : defined, approx., assumed
OUTCROP
CLIFF
ROCK SAMPLE LOCATION : insitu, float
ADIT PORTAL
PIT
TREND
ADIT DUMP
CREEK
BOGGY
BARBED WIRE FENCE
qv QUARTZ VEIN
py PYRITE
pyh PYRRHOTITE
aspy ARSENOPYRITE
Au FREE GOLD

N

SCALE 1:2500

0 50 100 200 METRES

GEOLOGICAL BRANCH ASSESSMENT REPORT

TO ACCOMPANY REPORT BY F. DI SPIRITO B.A.Sc., P. ENG.

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YUNIMAN PROJECT

FOR: TOBY CREEK RESOURCES LTD.

BY: SHANGRI-LA MINERALS LIMITED

GEOLOGICAL MAP

OSOYOOS M.D., B.C.

N.T.S. 82E / 5W	DATE : NOVEMBER 1985
DRAWN BY : N.H.	FIGURE Nº. 6

L.C.P. OLD DIGGINGS CLAIM
00E
1000 E
CL 1 E
2000 E
CL 2 E
LY 00
LY 50 S
LY 100 S
LY 150 S
LY 200 S
LY 250 S
LY 300 S
LY 350 S
LY 400 S
LY 450 S
LY 500 S
LY 550 S
LY 600 S
LY 650 S
LY 700 S
LY 750 S
LY 800 S
LY 850 S
LY 900 S
LY 950 S
LY 1000 S
LY 1050 S
LY 1100 S
LY 1150 S
LY 1200 S
L 1912
L 1913
L 1914
L 1915
L 2469
L 2470
L 2471
L 2472
LEGEND
0 - 50 ppb GOLD
51 - 100 " "
101 - 200 " "
201 - 300 " "
301 - 500 " "
501 - 1000 " "
› 1000 " "
PICKETED STATION ON CUT LINE
FLAGGED STATION
N
SCALE 1:2500
0 50 100 200 METRES
GEOLOGICAL BRANCH
ASSESSMENT REPORT
TO ACCOMPANY REPORT BY F. DI SPIRITO B.A.SC., P.ENG.
14,651
YUNIMAN PROJECT
FOR: TOBY CREEK RESOURCES LTD.
BY: SHANGRI-LA MINERALS LIMITED
GOLD GEOCHEMISTRY
OSOYOOS M.D., B.C.
N.T.S. 82E / 5W
DATE : NOVEMBER 1985
DRAWN BY : M.R.
FIGURE Nº. 7

L.C.P. OLD DIGGINGS CLAIM
00E
1000E
CL 1E
2000E
CL 2E
LY 00
LY 50 S
LY 100 S
LY 150 S
LY 200 S
LY 250 S
LY 300 S
LY 350 S
LY 400 S
LY 450 S
LY 500 S
LY 550 S
LY 600 S
LY 650 S
LY 700 S
LY 750 S
LY 800 S
LY 850 S
LY 900 S
LY 950 S
LY 1000 S
LY 1050 S
LY 1100 S
LY 1150 S
LY 1200 S
L 1912
L 1913
L 1914
L 1915
L 2469
L 2470
L 2471
L 2472
LEGEND
0.0 - 0.5 ppm SILVER
0.6 - 1.0
1.1 - 3.0
› 3.0
PICKETED STATION ON CUT LINE
FLAGGED STATION
N
SCALE 1:2500
0
50
100
200 METRES
GEOLOGICAL BRANCH
ASSESSMENT REPORT
TO ACCOMPANY REPORT BY F. DI SPIRITO B.A.Sc., P. ENG.
14,651
YUNIMAN PROJECT
FOR: TOBY CREEK RESOURCES LTD.
BY: SHANGRI-LA MINERALS LIMITED
SILVER GEOCHEMISTRY
OSOYOOS M.D., B.C.
N.T.S. 82E/5W
DATE: NOVEMBER 1985
DRAWN BY: M.R.
FIGURE No. 8


00E
1000E
CL 1E
2000E
CL 2E
L.C.P. OLD DIGGINGS CLAIM
LY 00
LY 50 S
LY 100 S
LY 150 S
LY 200 S
LY 250 S
LY 300 S
LY 350 S
LY 400 S
LY 450 S
LY 500 S
LY 550 S
LY 600 S
LY 650 S
LY 700 S
LY 750 S
LY 800 S
LY 850 S
LY 900 S
LY 950 S
LY 1000 S
LY 1050 S
LY 1100 S
LY 1150 S
LY 1200 S
L 1912
L 1913
L 1914
L 1915
L 2469
L 2470
L 2471
L 2472
LEGEND
0 - 50 ppm ARSENIC
51 - 100 " "
101 - 250 " "
251 - 500 " "
› 500 " "
PICKETED STATION ON CUT LINE
FLAGGED STATION
N
SCALE 1:2500
0 50 100 200 METRES
GEOLOGICAL BRANCH
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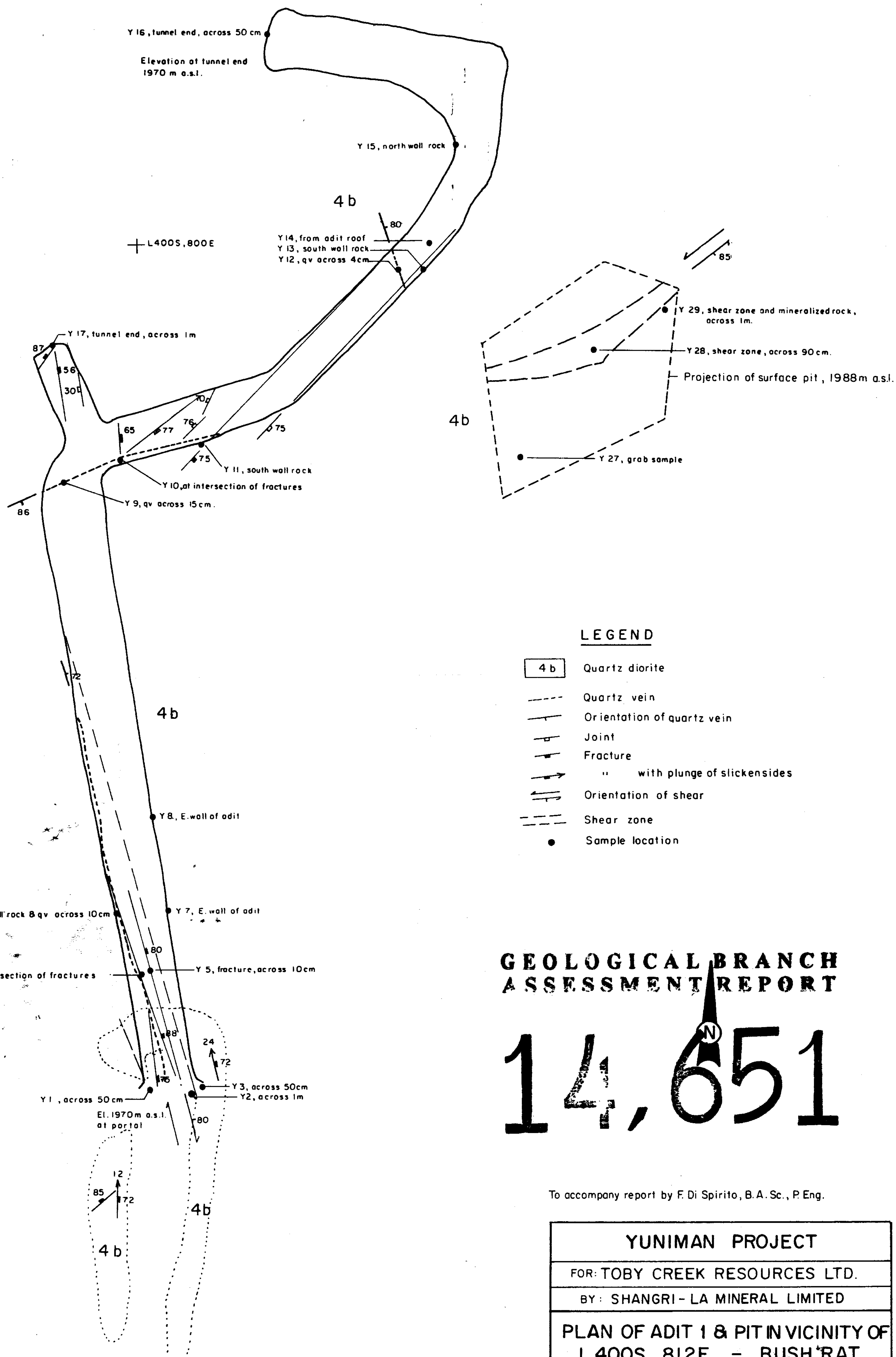
14,651
YUNIMAN PROJECT
FOR: TOBY CREEK RESOURCES LTD.
BY: SHANGRI-LA MINERALS LIMITED
ARSENIC GEOCHEMISTRY
OSOYOOS M.D., B.C.
N.T.S. 82E/5W
DATE : NOVEMBER 1985
DRAWN BY : M.R.
FIGURE Nº. 9



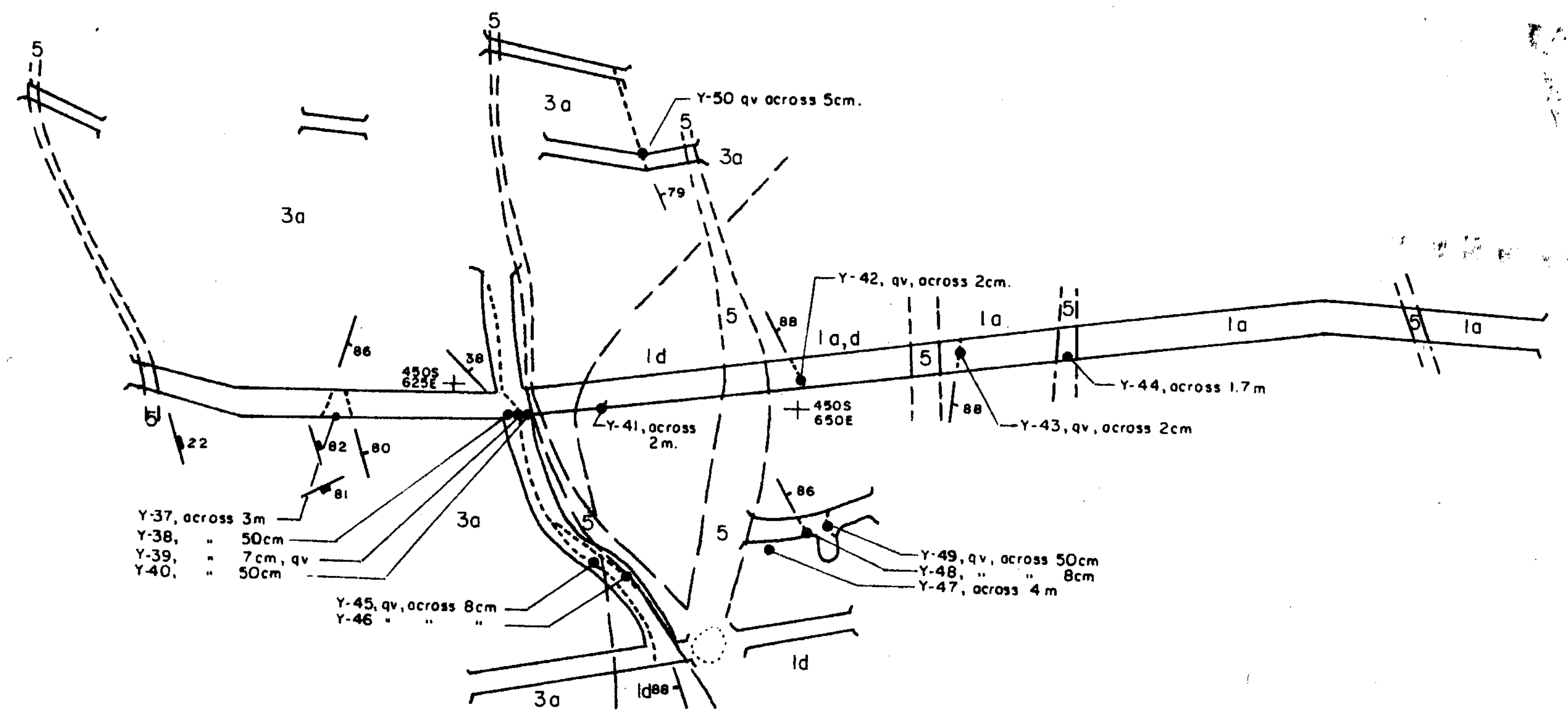
GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,651

To accompany report by F. Di Spirito, B.A.Sc., P.Eng.

YUNIMAN PROJECT	
FOR: TOBY CREEK RESOURCES LTD.	
BY: SHANGRI-LA MINERAL LIMITED	
PLAN OF ADIT 1 & PIT IN VICINITY OF L400S, 812E - BUSH RAT REVERTED CROWN GRANT, L1913 OSOYOOS M.D., B.C.	
N.T.S. 82E-5W	DATE: NOV. 1985
DRAWN BY: N.H.	FIGURE Nº. 10

CHONG



LEGEND

- 5 — Andesitic & plagioclase porphyry dykes
- 3 — Old Tom Formation a basalt, b argillite
- 1 — Independence Formation a chert, c argillite, d greenstone
- Quartz vein
- Attitude of quartz vein
- Fracture
- Geological contact – defined, approx., assumed
- Trench
- Surface outcrop
- Sample location

N

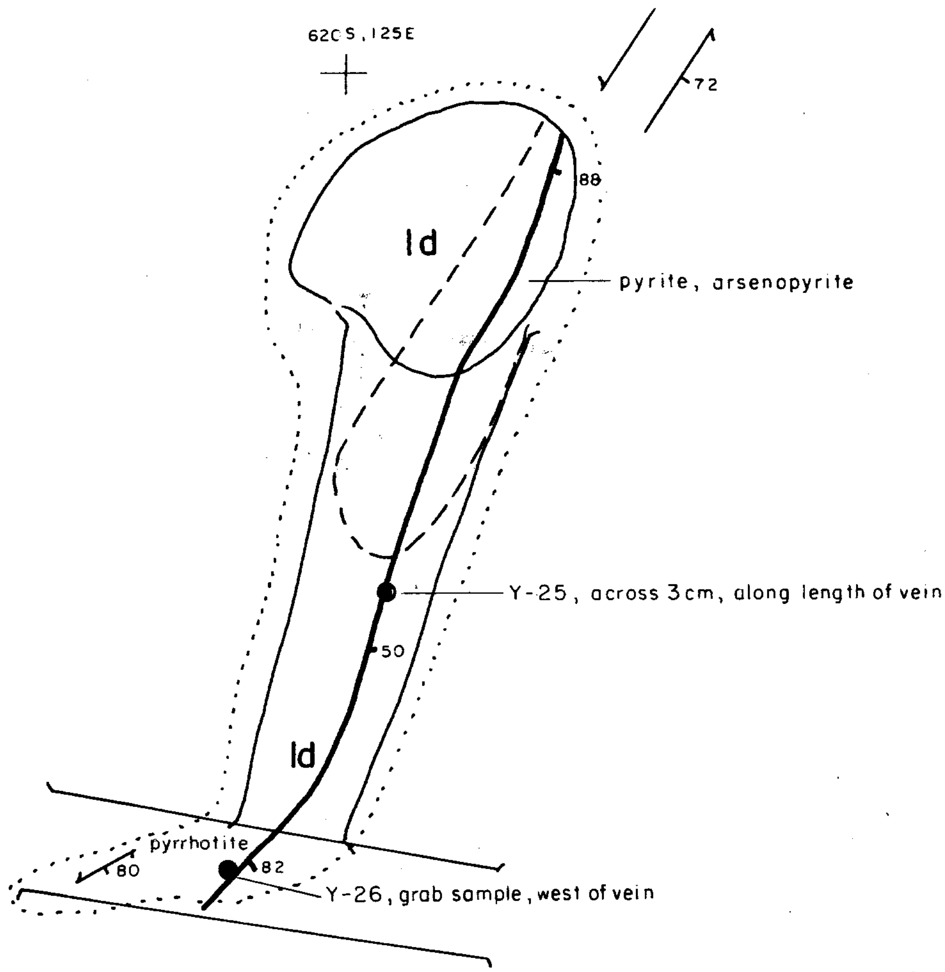
SCALE 1 : 500

0 10 20 30 Metres

To accompany report by F. Di Spirito, B.A. Sc., P. Eng.

YUNIMAN PROJECT	
FOR: TOBY CREEK RESOURCES LTD.	
BY: SHANGRI-LA MINERAL LIMITED	
TRENCHES IN VICINITY OF L 450 S , 650 E OSOYOOS M.D., B.C.	
N.T.S. 82 E - 5W	DATE: NOV. 1985
DRAWN BY: N.H.	FIGURE Nº. 11

CHONG



GEOLOGICAL BRANCH
ASSESSMENT REPORT

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N

LEGEND

Id	Independence Formation, greenstone
	Quartz vein, showing dip
	Sheared zone
	Direction of shear
	Cleavage
	Outcrop

To accompany report by F. Di Spirito, B.A. Sc., P. Eng.

SCALE 1:100

0 1 2 3 4 5 METRES

YUNIMAN PROJECT

FOR: TOBY CREEK RESOURCES LTD.

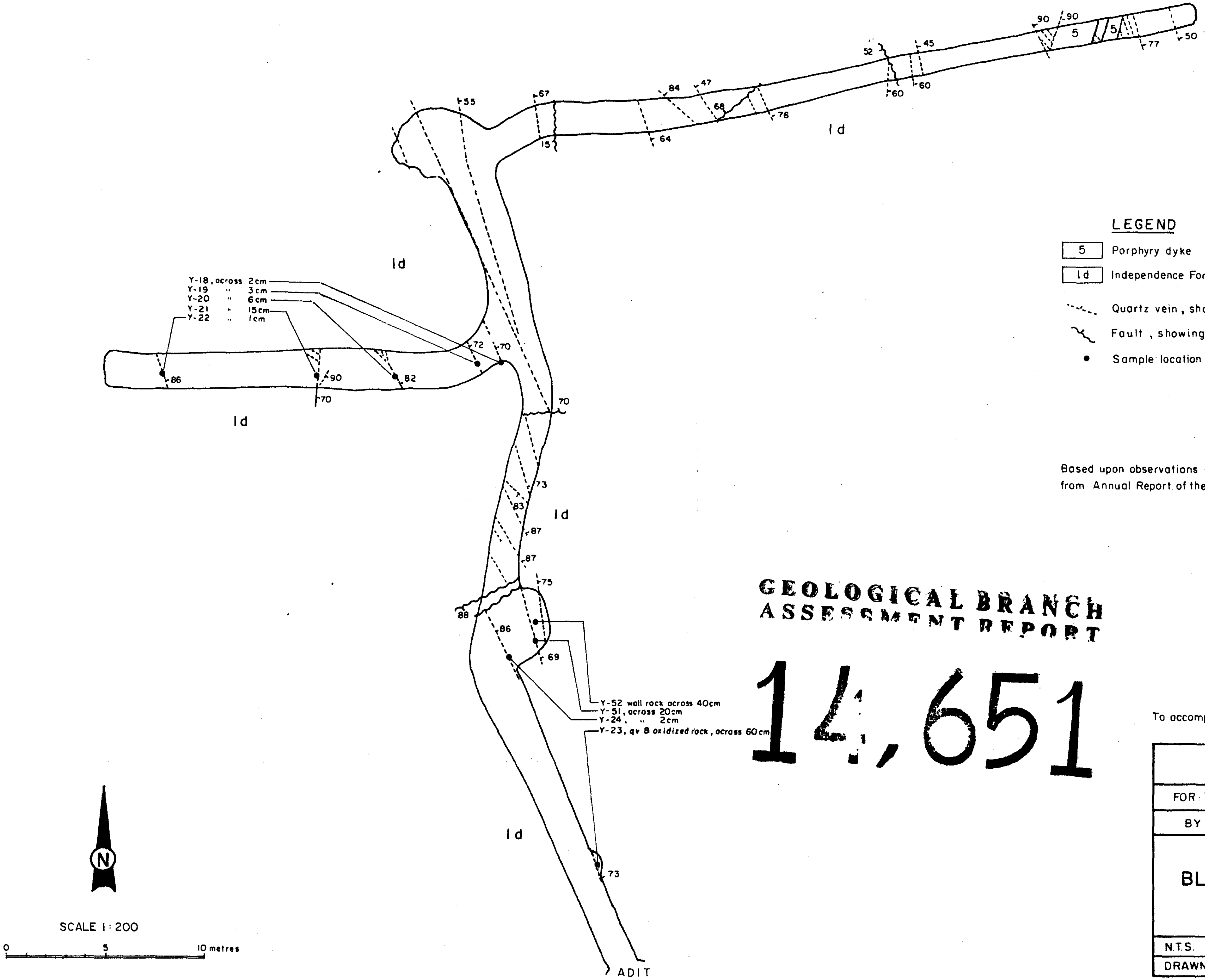
BY: SHANGRI-LA MINERAL LIMITED

PIT & TRENCHES AT 620S, 125E

OSOYOOS M.D., B.C.

N.T.S. 82 E - 5W	DATE: NOV. 1985
DRAWN BY: N.H.	FIGURE Nº. 12

CHONG



LEGEND

5	Porphyry dyke
Id	Independence Formation - greenstone
	Quartz vein, showing dip
	Fault, showing dip
•	Sample location

Based upon observations by Nigel Hulme, B. Sc. and information compiled from Annual Report of the Minister of Mines, 1947, PA145)

To accompany report by F. Di Spirito, B.A. Sc., P. Eng.

YUNIMAN PROJECT

FOR: TOBY CREEK RESOURCES LTD.

BY: SHANGRI-LA MINERAL LIMITED

PLAN OF ADIT 4
BLACK PINE REVERTED CROWN GRANT L. 1912
OSOYOOS M.D., B.C.

N.T.S. 82 E - 5W	DATE: NOV. 1985
DRAWN BY: N. H.	FIGURE Nº. 13

CHONG