85-817 - 14059

GEOPHYSICAL, GEOLOGICAL AND GEOCHEMICAL STUDY

FOR

TOBY CREEK RESOURCES LTD.

ON THE

LJUBO, LEPTON-A AND OLD DIGGINGS CLAIMS

HEDLEY AREA

OSOYOOS MINING DISTRICT

N.T.S. 82 E/5W

BY

FRANK DI SPIRITO, B.A.Sc., P.ENG.

SHANGRI-LA MINERALS LTD.
VANCOUVER, B.C.

October 1984

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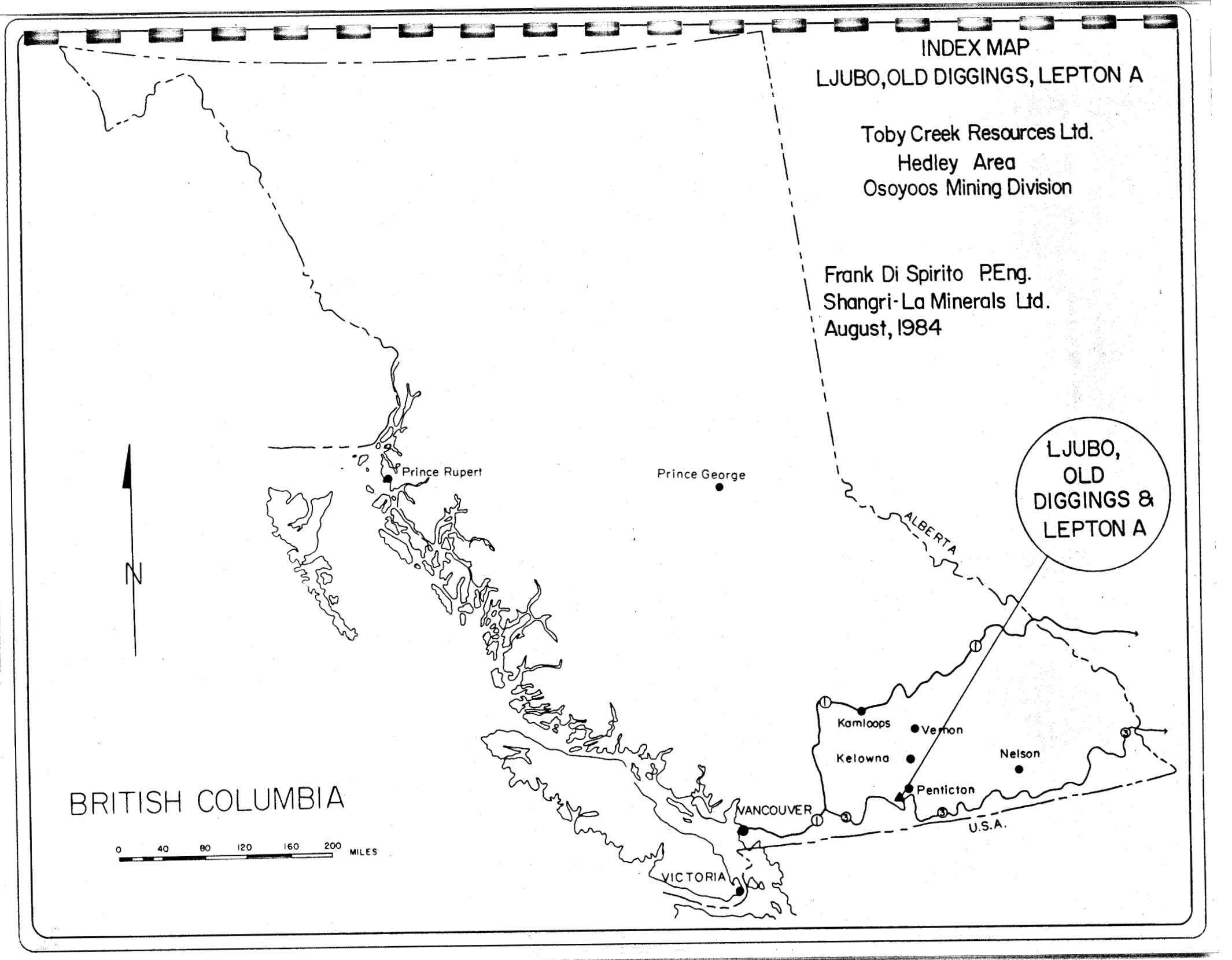
INDEX MAP
LJUBO, OLD DIGGINGS, LEPTON A
Toby Creek Resources Ltd.
Hedley Area
Osoyoos Mining Division
Frank Di Spirito P.Eng.
Shangri-La Minerals Ltd.
August, 1984
LJUBO, OLD DIGGINGS & LEPTON A
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Prince Rupert
Prince George
ALBERTA
Kamloops
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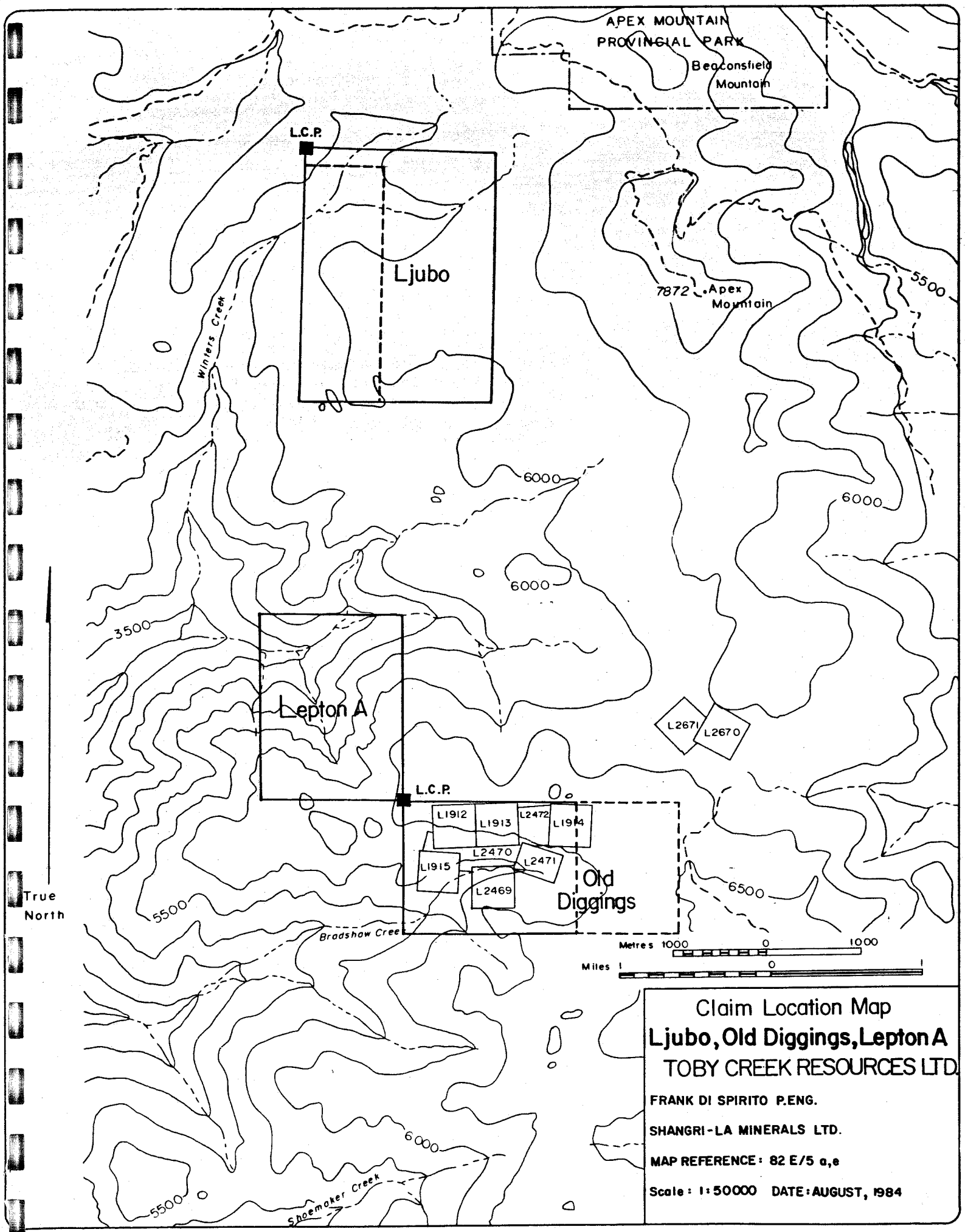


Claim Location Map

Ljubo, Old Diggings, Lepton A

TOBY CREEK RESOURCES LTD.

FRANK DI SPIRITO P.ENG.

SHANGRI-LA MINERALS LTD.

MAP REFERENCE: 82 E/5 a,e

Scale: 1:50000 DATE: AUGUST, 1984

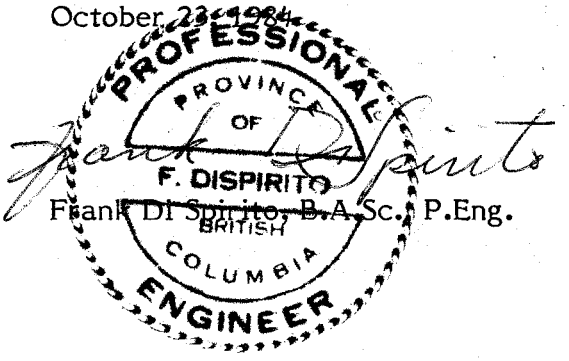
SUMMARY

A combined geological, geophysical and geochemical study of the Old Diggings, Ljubo and Lepton-A claims held by Toby Creek Resources Ltd. was conducted by Shangri-La Minerals Limited.

A promising gold showing and several strong geophysical anomalies were found on the Old Diggings claims. A large zone of geophysical and geochemical anomalies was delineated on the Ljubo claim a few hundred meters west of a property presently being drilled by Cominco Ltd. The Lepton-A claim revealed no presence of precious metals.

It is recommended that a second stage of exploration be commenced to define targets for diamond drill testing on the Old Diggings and Ljubo claims while the Lepton-A claim should be left to expire.

Respectfully submitted at Vancouver, B.C.
October 23, 1984



Frank Di Spirito, B.A.Sc., P.Eng.

PART A

Introduction

From September 15th to October 3rd, 1984 a program of grid surveying, Magnetometer, VLF-Electromagnetometer, geological mapping and soil sampling was conducted over the Old Diggings, Ljubo and Lepton-A claims owned by Toby Creek Resources Ltd.

The purpose of this exploration program was to examine an area east and southeast of the Hedley Mascot Mine and west and southwest of Apex Mountain whose geological setting is favourable to gold mineralization.

This report presents the results of a program recommended after an examination I conducted in August 1984.

Property

The properties are accurately located and well staked. The Old Diggings claim partially overlaps the Hex #8 claim belonging to Cominco Ltd. of Vancouver, B.C. The Old Diggings claims also surrounds a group of Crown granted claims whose total area is approximately 140 hectares. The Ljubo claim partially overlaps the MG claim belonging to Mr. Ernest Buck of Keremeos, B.C. The Lepton-A consists of one complete claim block. Although the claim areas are effectively reduced there is no conflict problem.

Claim particulars are as follows:

	Record No.	Mining Division	Anniv. Date	Effective Claim Area (hectares)	Overlapped Area	No. Of Units
Ljubo	2080	Osoyoos	Aug.9/85	290.00	210 hectares	20
Old Diggings	2081	Osoyoos	Aug.9/85	149.05	160.95 hect. +app.140 hect.	18
Lepton-A	2082	Osoyoos	Aug.9/85	300.00	-	12

Location and Access

- Legal Corner Post Location

Claim	Longitude	Latitude	N.T.S.
1) Ljubo	119°57'32"	49°22'12"	82 E/5W
2) Lepton-A	119°57'23"	49°18'24"	82 E/5W
3) Old Diggings	119°57'23"	49°18'24"	82 E/5W

The Ljubo, Lepton-A and Old Diggings claims are located approximately ten kilometers southeast of Hedley and approximately 30 kilometers southwest of Penticton, British Columbia. The claims are at the headwaters of Winters and Bradshaw creeks which flow westerly into the Similkameen River.

Access to the claims is by a good gravel road originating off Highway #3, 2.5 km south of Hedley, leading to a series of former gold mines and eventually to higher elevations where the claims and some logging clear cuts are located.

A rugged four wheel drive road also can be used. It originates at Olalla, just north of Keremeos and follows Olalla Creek up to the ridge on which the Lepton-A and Old Diggings LCP's are located

PART B
SURVEY SPECIFICATIONS

Survey Grids

Ljubo Claim

The survey grid was controlled by a 2.5 km north-south baseline and a parallel control line. They were located respectively 840 and 1,340 meters east of the Legal Corner Post. The survey lines were turned at right angles every 100 meters. The lines were flagged and stations were numbered at 50 meter intervals.

A total of 28.8 km of crosslines and 5 km of base and control lines were surveyed and slope corrected using compass, clinometer and hip chains.

Old Diggings Claim

The survey grid was controlled by a 1.5 km north-south base line beginning at the legal corner post and by a parallel control line 1,927 meters to the east. The survey lines were turned at right angles every 100 meters. The lines were flagged and stations were numbered at 50 meter intervals.

A total of 11.2 km of cross lines and 3 km of base and control lines were surveyed using compass, clinometer and hip chains.

Lepton-A Claim

A 1.6 km base line running north from the legal corner post was surveyed. Two 500 meter crosslines were surveyed and run west from the legal corner post and a station 100 meters north. The rest of the claim was not covered due to dangerous conditions after a snow storm that occurred between September 20th and 22nd, 1984.

A traverse of the main creek and the tributaries draining the extremely steep bowl encompassed by the claim was conducted on October 1st. Stream sediment samples were

collected and located using altimeter, compass, clinometer and hip chains. Tributary samples were collected 50 to 100 meters upstream from the main creek.

V.L.F. - Electromagnetometer Survey

Method

The survey was conducted using a Sabre Electronics, Model 27, V.L.F. Electromagnetometer. This instrument acts as a receiver only. It utilizes the primary electromagnetic fields generated by the United States Navy V.L.F. marine communication stations. These stations operate at frequencies between 15 and 25 KHZ and have a vertical antenna-current resulting in a horizontal primary field. Thus, this V.L.F.-E.M. measures the dip angle of the secondary field induced in a conductor.

For maximum coupling, a transmitter station located in the same direction as the geological strike was selected since the direction of the horizontal electromagnetic field is perpendicular to the direction of the transmitting station. In this case the transmitter at Seattle, Washington was utilized.

Readings were taken at 50 meter intervals and the data was subsequently filtered as described by D. C. Fraser, Geophysics Vol. 34, No. 6 (December 1969). The advantage of this method is that it removes the dc and attenuates long spatial wave lengths to increase resolution of local anomalies. It also phase shifts the dip angle by 90° so that the cross-overs and inflections will be transformed into peaks that yield contourable quantities.

To aid interpretation only positive filtered dip angles were drafted. Positive values indicate true conductors.

Magnetometer Survey

Method

The survey was conducted using a Scintrex MP-2 proton 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 base stations at intervals not exceeding three hours. Readings were taken at 50 meter intervals along the traverse lines. Diurnal variations ranged between 14 and 171 gammas and were consistently on the increase during the afternoon. A magnetic storm predicted by the United States Meteorological Bureau for September 22nd impeded us from continuing this survey for one day. Hourly variations often exceed several hundred gammas on this day.

Geochemical Survey

Method

A total of 438 soil, 13 stream sediment and 52 rock outcrop and float samples were collected. Soil samples were collected at 100 meter intervals along the survey lines. Rock chip samples were collected wherever signs of sulphide mineralization, shearing, gossans or leaching were visible. Where two mineralized quartz veins were found on the Old Diggings claim channel samples were collected (see description by Nigel Hulme).

Determinations were by Induction coupled plasma spectrophotometer for silver, base metals and pathfinder elements and by Fire Assay for gold.

All rocks were analyzed for the following elements in order to determine which ones showed consistent associations or disassociations with gold:

Molybdenum	Uranium	Chromium
Copper	Thorium	Magnesium
Lead	Stronthium	Barium
Zinc	Cadnium	Titanium
Silver	Antimony	Boron
Nickel	Bismuth	Aluminum
Cobalt	Vanadium	Sodium
Manganese	Calcium	Potassium
Iron	Phosphorous	Tungsten
Arsenic	Lanthanum	

The soil and silt samples were pulverized and analysed for gold by Fire Assay and for silver, manganese, arsenic, zinc and copper.

Soil collection was made with pick and mattock from the "B" horizon. Depth varied from 10 to 50 cm. Samples of no less than 200 grams were placed in Kraft paper bags and sun dried before dispatch to the laboratory.

All assays and geochemical analyses were done by Acme Analytical Laboratories Ltd., Vancouver, B.C.

Notes: 1) One soil sample and seven rocks containing medium to high grade gold mineralization were collected in the trenches and abandoned workings of a Crown Grant within the Old Diggings claim. Although this Crown Grant does not belong to Toby Creek Resources Ltd., the purpose of this exercise was to gain valuable information as to the geochemistry of the high grade gold veins found within the rock units which the Old Diggings claim contains. These eight samples were labelled "OD-1912C-G #1 to 7" and OD-1912C-G soil.

2) Sample codes which include the letter "F" indicate float samples.

PART C
GEOLOGY OF THE LJUBO CLAIM
BY
LARRY RITEMAN, B.Sc.

Physiography

The property covers the watershed area of Winters Creek and is dissected by several tributaries that feed this creek. The terrain is mostly low rolling hills with a light coniferous cover and alpine meadows with marshes along the tributaries.

Most of this claim is covered by overburden, mainly a cobbly glacial till with numerous erratics (large transported boulders). Outcrops are exposed along the road and along creek-worn bluffs. Outcrop exposure does not exceed 2%.

Flora

The Ljubo claim is mainly covered by relatively open coniferous forests. Common species are Englemann Spruce, Lodgepole Pine, White Spruce and some Douglas Fir. Underbrush is light with Poplar (Alders) in areas of poor drainage.

Fauna

Moose, Mule Deer, Black Bears and Squirrels were noted in this area.

Glaciation

Glaciation features are common, with bluff outcrops displaying striation marks and plucking. Orientations show that glacial flow was in a southeasterly direction. The retreat during the end of Wisconsian glacial period, 10,000 years ago, was when the till cover was laid down. The present soil has been developing since the retreat of the ice. The soil of this area is classified as the eutric brunisol type (cryochrest, eutrochrest). This type develops in dry environments (this area's annual precipitation is 30-40 cm per

year), with relatively open coniferous flora being moderately well drained and where the parent material has slightly changed. This soil type is slightly acidic (Ph 5.50 and should be subject to frost heave with slope creep to consider for geochemical purposes).

Geology

This claim block is underlain by two main rock types. The oldest rocks in this claim are the outcrops of andesitic basalts of the Wolfe Creek formation. The Wolfe Creek formation is the youngest member of the Nicola group dating as Upper Triassic. These andesites are altered to greenstones and are a greyish green massive crystalline rock. In contact with the andesites is a quartz hornblende porphyry dyke. This hypabassal rock is all that remains of a fissure vent from where the lava extruded. The andesitic basalt has a high colour index due to its mafic content, therefore, it contains more iron minerals and should be more magnetic than the surrounding granodiorites. The andesite has minor sulphide (approximately 1%) probably due to reduction of iron from mafic minerals.

The other rock type in this claim is a coarse grained granodiorite with approximately 10% mafic composition (biotite and hornblende), 25% potassium feldspars, 40% plagioclase and 15% quartz. It is a massive coarse crystalline rock that is continuous except for its jointing probably due to cooling. The granodiorite is related to the Nelson intrusion so it would be dated as Late Cretaceous.

Structural Geology

The andesite displays a differential layering (bedding) striking approximately east-west and dipping towards the south-southwest. The andesite also displays a clevage almost perpendicular to the bedding strike. This suggests metamorphism and structural deformation. The granodiorite shows jointing but it has no schistosity. Thus, from structural clues it appears that these andesite outcrops are inliers or pendants surrounded by the younger granodiorite. The claim area shows three major northwest trending faults that are down thrown on their western side. The jointing in the granodiorite shows a northeastern orientation as well that could suggest a series of faults in a northeast orientation.

GEOLOGY OF THE OLD DIGGINGS CLAIM
BY NIGEL HULME, B.Sc.

Property Geology

The Old Diggings mineral claim is underlain by Triassic volcanic and sedimentary rocks of the Independence, Shoemaker, and Old Tom formations which are locally intruded by small bodies of diorite and gabbro.

Independence Formation

The Independence formation is the oldest body of rocks present on the property and is composed of argillites, cherts with interbedded breccia, and minor volcanics. This unit is present in the northwest corner of the claim and also in a band which trends northeasterly through the center of the claim. Argillites and cherts exhibiting somewhat contorted beds up to 5 cm thick comprise the northwestern body. The rocks generally strike to the northeast and dip to the southeast at moderate angles.

Shoemaker Formation

The Shoemaker formation is situated to the east of the Independence formation and forms a northeasterly trending belt of chert, breccia and limestone. The cherts display a characteristic blue-grey colour and in outcrop can appear massive or exhibit individual beds up to 5 cm thick.

The cherts are cliff forming in the south central area of the property; one large outcrop here is intruded by dioritic and gabbroic dykes which strike north-northeast and dip steeply to the west. Cherts between these dykes have been brecciated. Small dykes up to 1 m thick, parallel to the two large dykes, have intruded the cherts immediately to the west.

One small outcrop of grey crystalline limestone is present in the east central area of the claim, near the eastern boundary of the formation.

Old Tom Formation

The Old Tom formation, composed of basalt and andesite, lies as two bodies in the southeast corner of the property and near the northwest corner of the property.

In the southeastern corner, the Old Tom 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.

Basalts and andesites of the Old Tom separate two bodies of the Independence formation in the northwestern area of the property. Andesites have euhedral to subhedral phenocrysts of pyroxene and hornblende which are generally 5 mm in size, but which can be as large as 2 cm. Subhedral phenocrysts of plagioclase 2 mm in size are also present. The andesites have a grey fresh surface and weather to a beige colour. The basalts in this area vary from a black, fine grained rock which weathers brown, to grey-green rock containing phenocrysts of plagioclase generally 1 mm in size.

Intrusive Rocks

Scattered bodies of diorite are present on the Old Diggings Claim. The diorite is medium grained and consists of euhedral to subhedral plagioclase hornblende and biotite. One large outcrop is present on Line 8S, where it has intruded rocks of the Old Tom formation. A number of northeasterly striking gabbroic to dioritic dykes have intruded a succession of cherts in the south central claim area.

Alteration and Mineralization

Mineralization of pyrite, arsenopyrite and pyrrhotite associated with shear zones is present in the northwest claim area in rocks of the Old Tom and Independence formations. Two test pits are located in this area, at 6+10S, 80E and at 8+70S, 25E.

The pit at 6+10S follows a northeasterly striking 3 to 4 meter wide shear zone and a parallel quartz vein. The quartz vein is 5 to 10 cm wide and contains pyrite and arsenopyrite. Some trenchwork has been done in the vicinity. Samples from this pit have assayed up to 3,150 ppb in gold and 96,026 ppm arsenic.

The pit at 8+70S is centered on a shear zone trending 018°/85°E through volcanic rocks of the Old Tom formation. The shear zone is 2 m wide and is heavily iron stained. Mineralization of pyrite, arsenopyrite and pyrhotite is concentrated in the wall rock. Samples from this pit have assayed up to 35 ppb gold and 252 ppm arsenic.

Two adits and numerous trenches are present on Crown Grant 1912, in an area where dioritic rocks have intruded basalts of the Old Tom formation. Samples from this area contain up to 96200 ppb gold and 94411 ppm arsenic.

Iron-manganese staining is common in the rocks of the northwest corner, and in the cherts located in the south central claim area. As well, many of the rocks in the northwest corner have undergone a small degree of silicification.

ROCK SAMPLE DESCRIPTION

Sample	Location	Description
BL 315S	315 m S on baseline	Black argillaceous rock with disseminated pyrite.
OD-610S,80E #1 (#1-#8 in test pit)	10 m S of Line 6S,80E	Quartz vein containing pyrite and arsenopyrite chip sample 0-25 cm down vertical face.
OD-610S,80E #2	"	Quartz vein, chip sample 25-38 cm down vertical face, pyrite, arsenopyrite.
OD-610S,80E #3	"	Quartz vein, chip sample 38-50 cm down vertical face, pyrite, arsenopyrite.
OD-610S,80E #4	"	Quartz vein, chip sample 50-62 cm down vertical face, pyrite, arsenopyrite.
OD-610S,80E #5	"	Quartz vein, chip sample 62-75 cm down vertical face, pyrite, arsenopyrite.
OD-610S,80E #6	"	Quartz vein, trench floor, pyrite, arsenopyrite.
OD-610S,80E #7	"	Footwall of shear.
OD-610S,80E #8	"	Hanging wall of shear.
OD-870S,25E A (A-E in test pit)	70 m S of Line 8S,25E	West wall rock of shear zone in volcanics.
OD-870S,25E B	"	0-50 cm chip sample (from west to east) slightly sheared andesite, pyrite, arsenopyrite, quartz stringers.
OD-870S,25E C	"	50-100 cm chip sample of main shear, FeMnO staining. Pyrrohotite?
OD-8705,25E D	"	100-200 cm chip sample of sheared rock, pale yellow staining, pyrite arsenopyrite, pyrrhotite?

Rock Description (Cont'd)

Sample	Location	Description
OD-870S,25E E	70 m S of Line 8S,25E	East wall rock of shear zone in volcanics, pyrite, arsenopyrite.
OD-8905S,60E	90 m S of Line 8S,60E	Composite sample of outcrop andesite with flow breccia, some brown staining, pyrrhotite.
OD-12,575E	L13S,575E	Volcanic rock, iron stains, pyrite.
OD-13,685E	L13S,685E	Volcanic rock, pyrite.
OD-13,700E+10N	10 m N of L13S 700E	Contact between chert and diorite. Iron manganese stains.
OD-13,700E	L13S,700E	Diorite, some pyrite.
OD-13,725E	L13S,725E	Sheared chert near diorite dyke. Iron staining.
OD-1912CG#1	Adit area Crown Grant 1912	20 cm wide quartz vein in trench 20 m N of old adit, pyrite, arsenopyrite.
OD-1912CG#2	Adit area Crown Grant 1912	Similar to #1, quartz vein 3 cm thick.
OD-1912CG#3	Adit area Crown Grant 1912	Rock dump at old adit. Quartz with disseminated arsenopyrite and pyrite.
OD-1912CG#5	Adit area Crown Grant 1912	Quartz found in trench 25 m N of old adit. arsenopyrite, pyrite.
OD-1912CG#6	Adit area Crown Grant 1912	Same as #5 with visible gold.
OD-1912CG#7	Adit area Crown Grant 1912	Quartz boulder, banded pyrite.

PART D

DISCUSSION OF GEOCHEMISTRY SURVEY RESULTS

Old Diggings Claim

In the original evaluation report I suggested principal appeal of this property is its potential for gold mineralization. This survey has delineated two main zones of interest. In one situated 610 meters south and 80 meters east of the Legal Corner Post a quartz vein was discovered and sampled revealing significant mineralization which was shown to contain up to 3,150 ppb gold, 2.9 ppm silver, 87,602 ppm arsenic and 329 ppm copper. Another zone encompassed between lines 6 and 9 south and from stations 1700 and 1927 east revealed anomalous values in the soils reaching a high of 70 ppb gold and 2.9 ppm silver.

Although fairly consistent positive correlations can be seen between copper, zinc, silver, manganese, arsenic and gold in the rock samples, our survey showed that they did not apply to the soils with any reliable constance. Since free gold is known to occur within the Crown Grants that this claim surrounds it is possible to postulate that the pathfinder elements determined by analysing the rock analysis data are being leached away. The gold, whose mobility is limited, and which is detected in the soils is likely of residual origin and relatively close once the minimal soil creep indications observed on the property is considered. Furthermore, in the case of sample OD-8-1700 east, a fairly anomalous gold value (70 ppb) is associated with high arsenic, silver, zinc and manganese values. We can assume that this sample was taken near its source and that the associated pathfinder elements have remained correlated.

Ljubo Claim

Allowing for a background of 5 ppb gold or less, there were 43 soil samples among the 310 that were collected which showed anomalous values ranging between 10 and 140 ppb gold. Most of these samples were associated with andesites and closely concentrated in an area bordered by lines 12 and 16 south and between stations 200 and 900 east.

Other anomalous samples can be seen to follow zones of electromagnetic conductivity.

Due to the very limited outcrop found on the property few rock samples were collected.

The most notable observations among the rocks were:

1. Gold values ranged between less than 5 and 90 ppb, silver ranged between less than .1 and 2.5 ppm and base metal values rarely exceeded a few standard deviations above low backgrounds.

2. A sample of granodiorite taken 50 meters away from the andesite contact labelled LJ-16 OTCP-DR2 and with visible pyrrhotite assayed 55 ppb gold. This may confirm the suspected association between the intrusive and the gold found in several mines in the near vicinity.

Lepton-A Claim

There was no indication found on this property of gold mineralization. One soil sample collected 100 meters north and 400 meters west of the Legal Corner Post contained 1.1 ppm silver. Arsenic values were higher in the soil samples than in the stream sediments. Gold values did not exceed 5 ppb.

No rocks with visible sulphide mineralization were seen either in place or in the creek float.

PART E
DISCUSSION OF GEOPHYSICAL SURVEY RESULTS

Magnetometer Survey (Ljubo Claim)

The magnetometer readings recorded over the Ljubo claim range between 57,100 gammas and 62,000 gammas, a total variation of 4,900 gammas. The Ljubo claim property is characterized by three magnetic highs located in the central portion of the property. The magnetic highs peak on line 15 at station 100, line 15 at station 400 and line 14 at station 600. The very strong gradient separating the two most western highs correlates to a fault contact between granodiorite to the west and andesite to the east. Another strong gradient exists to the east where the andesite is again in fault contact with granodiorite. The northern and southern limit of the two centrally located highs may represent the limit of the andesite. The source of the anomalous magnetic highs appears to be within 100 meters of surface and represent concentrations of mineral constituents with high magnetic susceptibilities, possibly phyrrotite. The surface traces of faults mapped at surface seem to coincide with a series of magnetic lows, suggesting possible alteration associated with the faulting.

The majority of anomalous gold geochemical values appear to be closely associated with the main magnetic highs. An isolated magnetic high also exists on line 0 at station 50 and is coincident with an outcrop of andesite.

VLF-EM Survey (Ljubo Claim)

The filtered dip angles are displayed as contours on Figure 2f, only the positive values are shown. The positive value contours represent near surface conductive zones. The sources of the conductors appear to be within 100 meters of surface. The main conductive trends correlate with high field strength values, indicating relatively strong conductors present.

The conductor axes either coincide with faulting noted at surface (northeast edge and northwest corner of claim) or with the general strike of the jointing present in the rocks overlying the Ljubo claim (northeast-southwest trends). A number of anomalous gold geochemical values coincide with the main northeast-southwest trending conductors. Thus, the possibility of northeast trending structures cross-cutting northwest trending structures at depth may exist. The intersections of such cross-cutting structures may be important in terms of mineral deposition. Locations of coincident magnetometer, VLF-EM and gold geochemistry anomalies should be investigated in detail.

Magnetometer Survey (Old Diggings Claim)

The magnetometer readings recorded over the Old Diggings claim range between 56,700 gammas and 77,000 gammas, a total variation of 20,300 gammas. The Old Diggings claim property is characterized by a number of isolated very strong magnetic highs. The magnetic highs are narrow, about 50 feet wide, indicating the sources to be probably present at surface. The magnetic highs correlate to intrusives or/and phyrrotite lenses on surface and are concentrated in the southwest corner of the property. A geologic contact correlates to a sharp magnetic gradient on line 12 at about station 450. Pyrrhotite lenses in a nearby claim being drilled by Cominco Ltd. within the same geological setting have been recently known to carry high gold values. The areas of high magnetometer readings warrant detailed exploration.

VLF-EM (Old Diggings Claim)

The filtered dip angles are displayed as contours on Figure 1f only the positive values have been contoured. The positive value contours represent near surface conductive zones. The sources of the conductors appear to be within 150 feet of surface. All the conductive trends correspond to high field strength values, indicating relatively strong conductors present. The main conductive zone is revealed in the northwest corner of the property and trends towards the northeast. This main trend correlates directly to a geologic contact near the western edge of the property, however, the northern extension of the trend may represent a zone of shearing. The other conductors revealed by the data most

likely represent shear zones of limited strike length. The sources of all the VLF-EM anomalies outlined should be investigated by detail ground surveys and trenching.

CONCLUSIONS AND RECOMMENDATIONS

The Ljubo and Old Diggings claims are underlain by geological settings favourable to gold mineralization. Several geophysical and geochemical anomalies have been delineated by this exploration program. A promising quartz shear zone hosted gold showing found on the Old Diggings claim and a large zone of soil geochemical anomalies on the Ljubo claim should be investigated in detail.

The soil and stream sediment geochemical analyses from the Lepton-A claim did not reveal any anomalous values in gold, silver or pathfinder elements, therefore, this property does not warrant any further exploration work. It is recommended that this claim be left to expire.

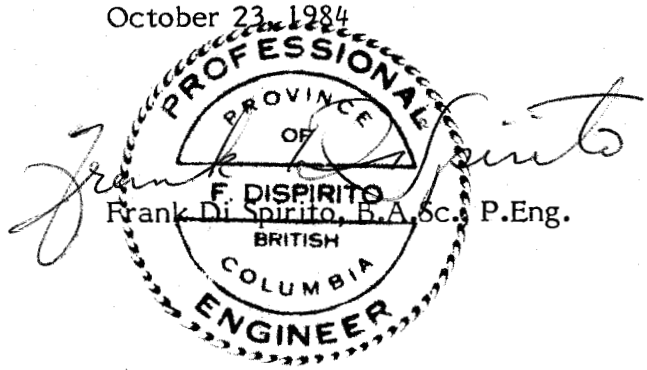
It is recommended that a second stage of exploration be carried out in order to define targets in preparation for diamond drill testing. The Phase II exploration is advised as follows:

Line cutting 50 km @ $350.00 km	$ 17,500.00
Geochemical Sampling - 400 samples @ $7.00/sample	4,800.00
Shootback electromagnetic survey	
- 10 line km @ $275.00/km	2,750.00
Induced Polarization and Resistivity Survey	
- 50 line km @ $750.00/km	37,500.00
Trenching and Rock Sampling	9,000.00
Access road building	15,000.00
Detailed Geological Mapping of Anomalous Areas	8,000.00
Assays - 400 soil @ $12.00 each	4,800.00
100 rock @ $14.50 each	1,450.00
Reserve for contingencies	5,000.00
Engineering and Supervision	6,000.00
	$111,800.00

The entire Phase II budget should be allocated for work on the Ljubo and Old Diggings claims.

Contingent upon encouraging results from the Phase II program a sum of approximately $300,000.00 should be set aside for diamond drilling and borehole geophysical studies.

Respectfully submitted at Vancouver, B.C.
October 23, 1984



Frank Di Spirito, B.A.Sc., P.Eng.

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APPENDIX A

COST BREAKDOWN

40 km of combined soil sampling, VLF-EM, Magnetometer and grid surveying @ $375.00/km (on contract with Shangri-La Minerals Ltd.)	$ 15,000.00
Geologists	
Nigel Hulme - 18 days @ $200.00/day	3,800.00
Larry Rileman - 12 days @ $200.00/day	2,400.00
Rental of Magnetometer - 19 days @ $30.00/day	570.00
Rental of 2 VLF-EM units - 19 days @ $25.00/day each	950.00
Engineering and report preparation	1,500.00
Drafting and reproductions	848.64
Assays and geochemical analyses	
52 rock @ $12.75/sample	663.00
438 soil and sediments @ $9.25/sample	4,051.50
Total	$ 29,783.14

Respectfully submitted at Vancouver, B.C.
October 22, 1984

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
F. DISPIRITO

Frank Di Spirito, B.A.Sc., P.Eng.

APPENDIX B

CERTIFICATES

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 Limited of 206 -744 West Hastings Street, Vancouver, British Columbia.

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.

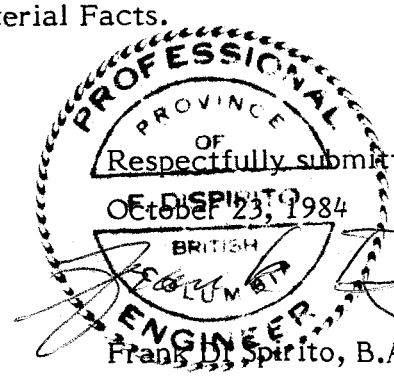
II) I am a registered member, in good standing, of the Association of Professional Engineers of British Columbia.

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 field examination made of the mineral property in August of 1984 and on evaluation of information gathered or compiled by Mr. Marco Romero who managed this first phase program between September 15 and October 3, 1984.

V) Neither I nor Shangri-La Minerals Limited has direct or indirect interest in the property described herein or in Toby Creek Resources Ltd. nor do we 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.
October 23, 1984

Frank Di Spirito, B.A.Sc., P.Eng.

CERTIFICATE

I, Larry A. Riteman, do hereby certify:

I) I am a Consulting Geologist, resident at 2525 Stephens Street, Vancouver, B.C.

II) I am a graduate of Memorial University of Newfoundland with B.Sc. degrees in Geology (1980) and Chemistry (1977).

III) I have been practising my profession since 1980.

IV) This report is based on field work and carried out and witnessed by this author.

V) I hold no direct or indirect interest in the property or in the securities of Toby Creek Resources, 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.
October 23, 1984

Larry A. Riteman

Larry A. Riteman, B.Sc.
Consulting Geologist

CERTIFICATE

I, Nigel J. Hulme, do hereby certify:

I) I am a Consulting Geologist, resident at 2040 Columbia Street, Vancouver, B.C.

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

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

IV) This geological account is based on field work carried out by the author between September 15 and October 3, 1984.

V) I hold no direct or indirect interest in the property or in the securities of Toby Creek Resources, 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.
October 23, 1984

Nigel Hulme

Nigel J. Hulme, B.Sc.

STATEMENT OF QUALIFICATIONS

I, Marco A. Romero, of the City of Vancouver in the Province of British Columbia hereby certify:

That I am a consulting technician with the firm of Shangri-La Minerals Limited of 206 - 744 West Hastings Street, Vancouver, British Columbia.

I further certify that:

I) I am a student of the British Columbia Institute of Technology and will graduate with a Diploma in Mining Engineering Technology in May of 1986.

II) Since 1979 I have been involved in numerous mineral exploration programs in Canada, the United States of America and Australia.

III) I personally supervised the acquisition of all the data for this survey and I certify that the work was done using consistent and recognized methods between September 15 and October 3, 1984.

IV) Neither I nor Shangri-La Minerals Limited has direct or indirect interest in the property described herein nor do we expect to receive any.

Respectfully submitted at Vancouver, B.C.

Marco Romero

Marco Romero

October 22, 1984

APPENDIX C

ASSAY AND GEOCHEMICAL RESULTS

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 3-1-3 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: ROCKS & SOIL AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: OCT 5 1984 DATE REPORT MAILED: Oct 10/84 ASSAYER. D. Toye. DEAN TOYE. CERTIFIED B.C. ASSAYER

TOBY CREEK RESOURCES FILE # 84-2925

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
LJ-15F	4	178	15	18	2.5	2	9	920	18.89	54	13	ND	2	1	2	2	2	16	9.34	.01	2	1	.05	17	.02	30	.37	.01	.01	5	90
LJ-1-40E	3	104	7	7	.4	1	7	78	1.70	10	5	ND	2	21	1	2	2	20	.45	.13	6	1	.07	38	.10	40	.29	.09	.02	2	35
LJ-1-250E	3	152	7	20	.4	2	2	154	6.05	6	5	ND	2	18	1	2	2	37	.56	.11	10	1	.15	39	.10	42	.46	.07	.03	2	5
LJ-14F+525E	1	256	4	79	.4	77	26	213	2.29	124	5	ND	2	82	1	2	2	39	1.50	.09	7	42	.53	166	.18	39	1.85	.28	.25	2	5
LJ-15-550E	1	350	6	100	.5	31	22	247	7.03	10	5	ND	2	16	1	2	2	122	.57	.12	13	3	1.60	25	.57	42	2.31	.19	2.26	2	5
LJ-10F+590E	2	530	5	11	.3	11	8	193	4.80	4	5	ND	2	9	1	2	2	21	2.82	.10	8	8	.05	14	.08	18	.50	.02	.02	2	55
LJ-16F+425E	1	84	7	46	.3	37	20	147	3.23	2	5	ND	2	57	1	2	2	70	1.08	.30	17	6	.98	76	.25	20	1.40	.18	.86	2	5
LJ-16+440E	1	7	12	9	.1	1	1	139	.42	2	5	ND	14	5	1	2	2	2	.11	.01	12	1	.04	47	.01	33	.25	.03	.16	2	5
LJ-2+550E	1	13	5	12	.1	4	2	80	1.07	2	5	ND	2	45	1	2	2	28	.72	.14	6	3	.15	45	.09	18	.80	.18	.07	2	5
LJ-13F+510E	1	29	4	61	.1	11	7	762	3.12	3	5	ND	5	32	1	2	2	83	.62	.09	11	37	1.16	120	.17	46	1.29	.12	.44	2	5
LJ-16-5+00E	2	199	5	10	.1	22	8	54	2.52	5	5	ND	2	44	1	2	2	25	.76	.20	8	9	.08	33	.09	39	.57	.16	.03	2	35
LJ-2+00S-7+00E	1	10	1	34	.1	3	4	466	2.26	4	5	ND	5	16	1	2	2	61	.43	.06	8	10	.57	179	.14	41	.83	.09	.33	2	5
LJ-1-40E	5	90	7	12	.2	2	6	61	1.83	7	5	ND	2	30	1	2	2	20	.52	.14	6	3	.06	25	.10	38	.41	.13	.03	2	5
LJ-1-475E	1	5	2	38	.1	3	4	517	2.90	2	5	ND	3	18	1	2	2	85	.35	.08	8	20	.57	172	.14	40	.84	.11	.43	2	5
LJ-20+00S-5+50E	1	110	7	18	.1	3	7	98	1.40	4	5	ND	2	31	1	2	2	36	.59	.14	6	3	.08	26	.08	40	.56	.13	.02	2	5
LJ-15+530E	1	3	6	39	.1	2	2	570	1.79	2	5	ND	15	7	1	2	2	26	.18	.05	18	2	.40	168	.12	22	.56	.04	.35	7	5
LJ-16 OTCP RD-1	2	11	4	11	.1	1	2	154	1.81	2	5	ND	3	68	1	2	2	2	.11	.04	9	1	.35	58	.01	26	.56	.04	.10	2	5
LJ-16 OTCP DR-2	25	127	4	23	.3	4	20	376	5.11	5	5	ND	4	38	1	2	2	47	.19	.06	8	3	.84	21	.09	34	1.17	.07	.47	2	55
LJ-16 OTCP DR-3	23	23	2	21	.1	3	3	370	2.70	2	5	ND	4	27	1	2	2	54	.19	.06	7	6	.89	114	.10	35	1.23	.08	.62	2	5
LJ-16 OTCP DR-4	56	97	3	30	.2	4	10	398	6.05	2	5	ND	5	8	1	2	2	28	.13	.04	9	4	1.05	24	.02	29	1.38	.05	.16	2	20
LJ-2F-60E	3	877	3	53	.6	48	45	291	5.31	9	5	ND	2	17	1	2	2	42	.71	.08	3	30	2.17	30	.14	39	1.64	.15	.50	2	15
LJ-1F-110E	5	897	5	35	.6	69	50	211	5.60	7	5	ND	2	5	1	2	2	21	.59	.05	4	23	1.83	28	.05	19	.81	.06	.28	2	5
LJ-1E+205E	3	743	4	20	.6	213	36	299	5.54	4	5	ND	2	13	1	2	2	44	.37	.08	14	21	.17	23	.02	44	.36	.03	.01	25	10
LJ-17F+470E	3	39	5	26	.1	10	1	1159	7.31	11	7	ND	2	2	1	2	2	26	11.06	.02	2	9	.10	19	.03	34	.45	.01	.01	7	5
OD-870S+25E A2	4	93	15	113	.5	7	1	69	9.88	93	5	ND	2	26	1	2	4	90	.02	.13	9	27	.14	207	.07	35	.59	.03	.10	2	30
OD-890S+60E	1	25	11	54	.1	16	6	487	2.39	8	5	ND	14	35	1	2	2	30	.90	.04	9	27	.59	76	.11	38	1.84	.16	.40	2	5
OD-BL+315S	1	30	8	17	.1	8	3	94	1.55	10	5	ND	2	6	1	2	3	5	.02	.02	6	8	.06	143	.01	42	.12	.01	.07	2	5
OD-13-700E+10N	1	81	8	183	.4	40	16	864	5.64	6	5	ND	6	121	1	2	2	114	2.04	.56	25	72	1.01	486	.41	37	3.13	.12	1.64	2	5
OD-13-700E A	2	23	8	49	.1	11	7	403	3.40	18	5	ND	3	27	1	2	2	68	.54	.13	9	18	.90	87	.18	43	1.24	.12	.31	2	5
OD-13+575E	1	210	6	30	.2	43	24	680	4.46	20	8	ND	2	51	1	2	2	75	9.25	.18	4	58	1.36	41	.29	37	1.39	.04	.09	4	15
OD-13+685E	2	75	35	212	.4	57	15	870	5.32	14	5	ND	6	86	1	2	2	82	2.51	.61	14	34	.79	384	.31	39	2.47	.10	.79	2	20
STD C/AU-0.5	19	56	38	122	6.2	67	26	1081	3.83	41	18	7	35	48	16	15	18	62	.44	.14	37	57	.88	198	.07	38	1.64	.06	.13	13	490

TOBY CREEK RESOURCES FILE # 84-2925

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
OD-13+725E	1	72	10	27	.5	7	3	816	3.71	54	5	ND	6	6	1	2	2	42	.07	.03	16	38	.55	86	.12	9	1.34	.01	.21	2	5
OD-1912 CG-1	1	536	13	19	4.6	7	33	143	11.32	94150	5	43	2	6	1	18	27	15	.15	.01	24	21	.23	11	.01	14	.29	.01	.04	2	25000
OD-1912 CG-2	1	354	49	170	2.2	15	65	349	14.21	94411	5	19	2	6	2	16	41	67	.14	.03	24	81	1.18	15	.02	11	1.17	.02	.04	2	30400
OD-1912 CG-3	1	121	14	58	.1	8	9	169	3.00	2607	5	ND	3	13	1	2	2	43	.16	.06	11	12	.83	103	.01	5	1.29	.04	.09	2	195
OD-1912 CG-5	8	57	1369	852	22.1	3	4	55	4.05	2322	5	13	2	6	11	22	2	2	.01	.02	10	3	.04	34	.01	9	.19	.01	.16	2	7550
OD-1912 CG-6	14	99	7186	2192	79.6	2	6	51	10.32	2645	5	72	2	9	32	32	2	2	.01	.01	16	1	.03	14	.01	9	.14	.01	.12	2	96200
OD-1912 CG-7	4	311	4214	3816	47.0	2	8	2028	7.43	1404	5	14	2	56	65	39	2	3	1.98	.05	10	2	.82	29	.01	8	.20	.01	.18	2	14800
OD-610S+80E-1	2	101	159	117	2.9	5	123	155	9.26	87602	5	3	2	27	2	21	3	11	.03	.02	21	7	.10	28	.01	13	.27	.01	.05	2	2850
OD-610S+80E-2	2	221	58	45	1.4	8	88	102	10.99	96026	5	2	2	12	1	39	5	10	.01	.05	18	9	.06	28	.01	16	.21	.01	.06	2	2850
OD-610S+80E-3	2	106	16	16	.7	7	91	104	7.98	79254	5	2	2	11	1	21	4	11	.01	.02	15	9	.10	39	.02	7	.35	.01	.06	2	3150
OD-610S+80E-4	2	112	10	15	.7	5	27	161	4.63	37426	5	ND	3	21	1	11	4	19	.01	.03	13	16	.20	167	.02	6	.61	.01	.11	2	1650
OD-610S+80E-5	2	105	10	8	.5	1	24	90	3.63	30494	5	ND	2	7	1	10	2	6	.01	.03	7	6	.08	145	.01	5	.20	.01	.04	2	1250
OD-610S+80E-6	3	329	7	11	1.1	9	78	93	7.74	70961	5	3	2	10	1	19	5	9	.01	.04	14	11	.07	49	.02	11	.29	.01	.09	2	3150
OD-610S+80E-7	1	30	12	8	.2	6	3	202	.96	1928	7	ND	2	3	1	2	2	11	.01	.02	3	7	.15	36	.01	4	.29	.01	.04	2	25
OD-610S+80E-8	1	37	8	25	.3	11	4	481	1.98	915	5	ND	5	7	1	2	2	25	.01	.01	11	31	.77	339	.07	4	1.66	.01	.61	2	15
OD-870S+25E A	1	40	17	79	.5	61	14	554	3.25	252	5	ND	7	42	1	2	2	82	.55	.08	12	59	1.34	182	.13	10	2.36	.18	.66	2	35
OD-870S+25E B	1	23	13	49	.4	26	7	354	2.71	176	5	ND	9	12	1	2	2	42	.08	.02	15	36	.99	204	.08	10	1.71	.07	.66	2	35
OD-870S+25E C	1	85	13	32	.5	44	15	391	4.27	57	5	ND	4	90	1	2	2	71	1.21	.15	11	48	1.03	104	.17	9	2.64	.36	.59	2	5
OD-870S+25E D	3	76	11	105	.4	112	24	672	3.89	60	5	ND	4	125	1	2	3	84	1.63	.17	11	93	1.00	114	.19	9	3.06	.50	.33	2	5
OD-870S+25E E	2	84	33	221	1.1	101	20	572	4.72	32	5	ND	2	71	1	2	2	65	1.42	.21	11	97	.79	95	.19	6	1.99	.25	.08	2	5
OD-1912 CG SOIL	2	209	18	95	.5	58	31	1247	5.60	2297	5	ND	3	19	1	2	6	73	.16	.07	18	60	.99	273	.11	6	2.67	.02	.19	2	350
STD C/AU 0.5	19	57	39	120	6.6	69	28	1091	3.79	40	19	7	35	50	15	15	19	56	.44	.12	38	58	.88	184	.07	39	1.72	.07	.15	13	495

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

DATE RECEIVED: OCT 5 1984

DATE REPORT MAILED: Oct.16/84..

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 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 & PULVERIZED AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: D. Toye DEAN TOYE. CERTIFIED B.C. ASSAYER

TOBY CREEK RESOURCES FILE # 84-2931

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LJ-1 0E	26	63	.3	492	8	5
LJ-1 100E	29	45	.3	358	7	5
LJ-1 200E	26	74	.2	765	7	5
LJ-1 300E	56	59	.4	343	10	5
LJ-1 400E	29	63	.3	515	8	5
LJ-1 500E	33	69	.3	414	8	5
LJ-1 600E	26	66	.2	399	7	5
LJ-1 700E	30	56	.2	246	8	5
LJ-1 800E	27	47	.2	251	5	5
LJ-1 900E	28	50	.1	312	8	5
LJ-1 1000E	17	45	.1	509	7	5
LJ-1 1100E	21	43	.2	303	9	5
LJ-2 0E	24	62	.2	442	7	5
LJ-2 100E	24	72	.1	573	2	5
LJ-2 200E	23	64	.2	673	4	5
LJ-2 300E	21	62	.1	624	5	5
LJ-2 400E	27	67	.2	659	7	5
LJ-2 500E	27	71	.2	593	4	5
LJ-2 600E	28	67	.1	522	6	5
LJ-2 700E	31	60	.2	407	8	25
LJ-2 800E	42	77	.6	375	7	5
LJ-2 900E	20	50	.1	368	8	5
LJ-2 1000E	24	35	.1	212	10	5
LJ-2 1050E	27	28	.1	273	11	5
LJ-2 1100E	25	46	.3	495	8	5
LJ-3 0E	28	58	.2	606	7	5
LJ-3 100E	29	62	.4	582	7	5
LJ-3 200E	39	65	.3	345	6	5
LJ-3 300E	37	60	.2	484	7	5
LJ-3 400E	37	65	.2	361	6	5
LJ-3 500E	35	63	.2	407	8	5
LJ-3 600E	41	57	.3	527	10	5
LJ-3 700E	35	54	.1	367	9	15
LJ-3 800E	28	48	.1	249	12	5
LJ-3 900E	22	31	.3	146	9	5
LJ-3 1000E	25	40	.1	235	9	5
LJ-3 1100E	6	14	.1	69	2	5
STD C/AU 0.5	58	124	6.3	1093	38	505

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LJ-3 5+50E	32	50	.3	411	8	5
LJ-3 6+00E	41	50	.3	528	7	10
LJ-3 6+50E	27	58	.3	431	5	35
LJ-3 7+00E	28	45	.3	293	5	10
LJ-3 7+50E	30	47	.2	295	4	5
LJ-3 8+00E	26	42	.3	208	12	5
LJ-3 8+50E	20	44	.2	272	8	5
LJ-3 8+90E	19	32	.2	149	8	5
LJ-3 10+00E	22	35	.1	220	6	5
LJ-3 11+50E	19	43	.1	236	7	5
LJ-3 12+00E	23	38	.3	193	10	5
LJ-4 100E	37	38	.2	255	5	5
LJ-4 200E	26	48.	.2	333	6	5
LJ-4 300E	34	62	.2	574	2	5
LJ-4 400E	33	53	.2	380	5	5
LJ-4 500E	27	54	.3	423	7	5
LJ-5 0E	48	77	.4	648	7	5
LJ-5 100E	18	57	.3	154	5	5
LJ-5 200E	70	53	.5	1799	6	5
LJ-5 400E	28	37	.1	272	10	5
LJ-5 500E	29	34	.1	293	10	5
LJ-5 600E	19	34	.1	194	9	5
LJ-5 800E	30	35	.2	264	12	5
LJ-5 900E	26	42	.1	616	6	5
LJ-5 1000E	29	32	.1	342	2	5
LJ-5 1200E	18	32	.2	132	3	5
LJ-6 0E	22	78	.2	293	5	5
LJ-6 100E	22	74	.3	276	8	5
LJ-6 200E	35	71	.1	622	5	5
LJ-6 300E	30	51	.3	294	8	5
LJ-6 500E	34	43	.5	290	8	5
LJ-6 600E	49	51	.2	531	10	25
LJ-6 700E	25	51	.3	462	6	5
LJ-6 800E	31	46	.5	451	4	5
LJ-6 900E	25	52	.3	426	5	5
LJ-6 1000E	29	40	.3	225	4	5
LJ-6 1100E	45	41	.7	343	7	10
STD C/AU 0.5	57	118	6.6	1097	39	510

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LJ-6 1200E	20	40	.3	197	7	5
LJ-7 0E	22	88	.2	319	12	5
LJ-7 100E	26	85	.4	340	12	5
LJ-7 200E	19	62	.3	313	8	5
LJ-7 300E	8	34	.4	79	5	5
LJ-7 400E	22	53	.5	354	4	5
LJ-7 400EA	38	51	.7	2436	11	5
LJ-7 500E	19	45	.5	323	9	5
LJ-7 600E	19	49	.2	251	8	5
LJ-7 700E	28	50	.3	448	7	5
LJ-7 800E	19	53	.4	433	8	5
LJ-7 900E	32	45	.3	515	9	5
LJ-7 1000E	19	41	.4	259	6	5
LJ-7 1100E	30	27	.6	852	14	5
LJ-7 1200E	100	38	.4	639	13	5
LJ-8 0E	35	115	.7	447	11	5
LJ-8 100E	85	79	2.1	336	13	5
LJ-8 200E	32	73	.6	553	6	5
LJ-8 300E	16	62	.2	328	6	5
LJ-8 400E	27	56	.4	293	6	5
LJ-8 500E	21	64	.2	538	9	5
LJ-8 600E	20	58	.2	713	9	5
LJ-8 700E	27	57	.2	286	8	5
LJ-8 800E	20	51	.2	271	5	5
LJ-8 900E	27	47	.4	506	6	5
LJ-8 1000E	16	40	.1	261	7	5
LJ-8 1100E	16	36	.4	254	7	5
LJ-8 1200E	20	45	.3	380	8	5
LJ-9 0E	46	93	.7	449	14	15
LJ-9 100E	53	58	1.0	213	7	5
LJ-9 200E	34	78	.7	306	9	5
LJ-9 300E	16	58	.4	256	9	5
LJ-9 400E	20	75	.5	318	8	5
LJ-9 500E	25	55	.4	243	8	5
LJ-9 600E	20	37	.4	162	8	5
LJ-9 700E	31	55	.6	682	6	5
LJ-9 800E	15	47	.3	394	8	5
STD C/AU 0.5	57	116	6.6	1078	42	500

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LJ-9 900E	23	46	.1	204	4	5
LJ-9 1000E	30	37	.3	268	7	5
LJ-9 1100E	39	71	.1	523	6	5
LJ-9 1200E	21	30	.1	212	3	5
LJ-10 0E	30	63	.3	226	7	15
LJ-10 100E	37	51	.3	625	4	5
LJ-10 200E	13	60	.1	235	6	5
LJ-10 300E	28	58	.2	467	5	5
LJ-10 400E	17	59	.1	342	8	5
LJ-10 500E	27	58	.1	336	7	5
LJ-10 600E	20	36	.5	132	5	5
LJ-10 700E	10	21	.2	79	3	5
LJ-10 800E	20	42	.1	205	7	5
LJ-10 900E	16	45	.1	376	4	5
LJ-10 1000E	24	45	.1	439	6	5
LJ-10 1100E	23	45	.1	208	6	5
LJ-10 1200E	16	47	.1	214	6	5
LJ-11 0E	30	82	.2	404	9	5
LJ-11 100E	17	25	.4	101	3	5
LJ-11 200E	32	68	.3	478	10	5
LJ-11 300E	28	51	.2	386	6	5
LJ-11 400E	28	50	.4	270	7	5
LJ-11 500E	21	44	.2	284	8	5
LJ-11 600E	16	35	.3	187	6	5
LJ-11 700E	26	49	.4	432	7	10
LJ-11 800E	16	40	.6	161	2	5
LJ-11 900E	12	47	.3	155	5	5
LJ-11 1000E	12	45	.2	451	4	5
LJ-11 1100E	12	38	.1	238	2	5
LJ-11 1200E	15	32	.1	153	7	5
LJ-12 0E	26	54	.1	393	11	5
LJ-12 100E	46	31	.1	102	4	5
LJ-12 200E	32	50	.2	249	8	10
LJ-12 300E	32	55	.1	317	8	10
LJ-12 400E	29	33	.2	135	7	10
LJ-12 500E	24	42	.1	228	3	15
LJ-12 600E	35	65	.1	482	8	10
STD C/AU 0.5	59	121	6.3	1057	39	500

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LJ-12 700E	32	48	.4	188	8	15
LJ-12 800E	25	53	.4	228	7	5
LJ-12 900E	14	35	.1	152	6	5
LJ-12 1000E	14	37	.3	202	3	5
LJ-12 1100E	14	44	.1	192	6	5
LJ-12 1200E	17	37	.1	224	9	10
LJ-13 0E	48	57	.2	357	15	40
LJ-13 100E	42	53	.1	346	13	10
LJ-13 200E	25	56	.1	387	9	5
LJ-13 300E	42	56	.1	302	7	10
LJ-13 400E	46	59	.1	321	5	140
LJ-13 500E	40	58	.1	251	8	15
LJ-13 600E	56	63	.2	278	6	5
LJ-13 700E	31	50	.1	406	11	5
LJ-13 800E	31	56	.2	325	9	5
LJ-13 900E	17	53	.4	188	7	20
LJ-13 1000E	24	53	.5	380	5	5
LJ-13 1100E	17	51	.3	273	8	5
LJ-13 1200E	17	54	.5	348	8	5
LJ-14 0+00E	28	59	.2	276	7	15
LJ-14 0+50E	45	73	.4	236	9	40
LJ-14 1+50E	28	43	.3	141	8	20
LJ-14 3+00E	49	54	.2	302	7	15
LJ-14 4+00E	48	62	.2	285	10	5
LJ-14 5+00E	54	54	.4	310	8	20
LJ-14 6+00E	20	55	.2	285	11	5
LJ-14 7+00E	34	53	.2	292	6	15
LJ-14 8+00E	20	55	.2	333	5	5
LJ-14 9+00E	20	40	.2	149	7	10
LJ-14 10+00E	13	47	.1	183	5	15
LJ-14 11+00E	11	42	.1	256	2	5
LJ-14 12+00E	20	43	.1	301	7	5
LJ-15 0+00E	31	54	.1	331	9	5
LJ-15 1+00E	24	55	.1	227	7	10
LJ-15 2+00E	26	59	.1	421	10	15
LJ-15 3+00E	19	14	.1	82	2	5
LJ-15 4+00E	42	62	.2	360	7	25
STD C/AU 0.5	58	127	6.5	1088	40	520

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LJ-15 5+00E	18	48	.6	191	6	5
LJ-15 6+00E	32	58	.6	323	11	5
LJ-15 7+00E	39	54	.4	337	7	5
LJ-15 8+00E	35	47	.5	410	9	5
LJ-15 9+00E	29	53	.3	388	7	5
LJ-15 10+00E	29	58	.2	652	10	5
LJ-15 11+00E	28	57	.4	389	9	5
LJ-15 12+00E	29	52	.3	338	8	5
LJ-16 0+00E	45	52	.4	471	7	5
LJ-16 1+00E	29	61	.4	414	6	5
LJ-16 2+00E	50	59	.5	241	7	75
LJ-16 2+50E	35	63	.3	369	4	5
LJ-16 4+00E	28	56	.3	337	8	5
LJ-16 4+80E	39	53	.3	320	10	5
LJ-16 6+00E	42	53	.2	265	7	5
LJ-16 7+00E	42	58	.3	392	9	5
LJ-16 8+00E	32	59	.5	277	7	5
LJ-16 9+00E	35	55	.3	516	7	5
LJ-16 10+00E	15	42	.4	108	4	5
LJ-16 11+00E	18	35	.4	124	5	5
LJ-16 12+00E	13	37	.3	310	6	5
LJ-17 0+00E	14	40	.4	187	8	5
LJ-17 1+00E	31	17	.7	325	2	5
LJ-17 2+00E	15	33	.4	144	6	5
LJ-17 3+00E	25	42	.2	235	8	5
LJ-17 4+00E	17	37	.2	212	7	5
LJ-17 5+00E	30	53	.3	313	10	5
LJ-17 6+00E	31	48	.4	281	10	5
LJ-17 7+00E	29	50	.4	317	7	5
LJ-17 8+00E	31	55	.3	516	8	5
LJ-17 9+00E	32	54	.2	357	7	5
LJ-17 10+00E	14	39	.1	145	3	5
LJ-17 11+00E	11	39	.1	305	4	5
LJ-17 12+00E	10	45	.1	219	3	5
LJ-18 0+00E	27	58	.1	571	8	5
LJ-18 1+00E	24	63	.2	504	6	5
LJ-18 2+00E	29	91	.4	237	8	5
STD C/AU-0.5	58	117	6.6	1054	39	505

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LJ-18 3+00E	45	83	1.5	328	5	5
LJ-18 4+00E	28	54	.4	266	9	5
LJ-18 5+00E	45	72	.6	397	7	5
LJ-18 6+00E	94	71	1.4	686	6	5
LJ-18 7+00E	28	58	.2	366	9	5
LJ-18 8+00E	35	61	.5	349	8	5
LJ-18 9+00E	36	56	.3	391	7	5
LJ-18 10+00E	27	52	.1	341	6	5
LJ-18 11+00E	24	46	.1	336	3	5
LJ-18 12+00E	17	39	.2	192	6	5
LJ-19 0+00E	24	51	.2	426	10	45
LJ-19 1+00E	23	65	.3	321	9	5
LJ-19 2+00E	29	68	.6	326	7	15
LJ-19 3+00E	31	63	.4	375	8	20
LJ-19 4+00E	63	74	.7	576	9	5
LJ-19 5+00E	56	58	.4	340	7	5
LJ-19 6+00E	42	38	1.0	300	4	5
LJ-19 7+00E	45	27	.9	251	6	5
LJ-19 8+00E	34	58	.2	490	7	5
LJ-19 8+50E	34	45	.4	360	8	5
LJ-19 10+00E	28	52	.3	278	3	5
LJ-19 11+00E	20	55	.3	441	7	5
LJ-19 12+00E	21	30	.4	205	2	5
LJ-20 0+00E	33	57	.1	428	8	5
LJ-20 1+00E	24	81	.1	501	8	5
LJ-20 2+00E	30	56	.2	476	3	5
LJ-20 3+00E	33	54	.6	506	6	5
LJ-20 4+00E	34	43	.1	349	4	5
LJ-20 5+00E	32	85	.3	200	10	5
LJ-20 6+00E	31	47	.1	321	7	5
LJ-20 7+00E	29	43	.1	238	6	5
LJ-20 8+00E	42	53	.1	317	7	5
LJ-20 9+00E	38	39	.4	365	2	5
LJ-20 10+50E	41	40	.2	404	7	5
LJ-20 11+50E	34	37	.4	322	3	5
LJ-20 12+00E	54	23	.6	259	2	5
LJ-21 0+00E	13	46	.1	324	3	5
STD C/AU 0.5	59	118	6.6	1062	37	500

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LJ-21 1+00E	23	49	.3	468	6	5
LJ-21 2+00E	16	49	.4	246	5	15
LJ-21 3+00E	16	46	.4	297	3	5
LJ-21 4+00E	9	32	.2	139	3	5
LJ-21 5+00E	26	58	.3	264	3	5
LJ-21 6+00E	24	50	.1	328	8	15
LJ-21 7+00E	26	39	.4	309	3	5
LJ-21 8+00E	11	28	.2	137	4	10
LJ-21 9+00E	86	31	.9	386	3	5
LJ-21 10+00E	36	28	.2	237	3	5
LJ-21 11+00E	64	43	.4	1087	9	5
LJ-21 12+00E	45	43	.3	534	7	5
LJ-22 0+00E	23	57	.2	414	8	5
LJ-22 1+00E	27	56	.1	630	4	5
LJ-22 2+00E	19	48	.1	264	6	5
LJ-22 3+00E	22	49	.2	251	5	5
LJ-22 4+00E	22	55	.2	404	6	5
LJ-22 5+00E	52	81	.4	369	9	10
LJ-22 6+00E	16	38	.1	275	3	35
LJ-22 7+00E	13	39	.3	1432	4	5
LJ-22 8+00E	13	24	.1	494	2	5
LJ-22 9+00E	45	36	.5	1195	4	5
LJ-22 10+00E	29	46	.3	272	5	5
LJ-22 11+00E	27	47	.3	364	3	5
LJ-22 12+00E	34	60	.3	229	8	5
LJ-23 0+00E	49	72	.8	735	7	5
LJ-23 1+00E	26	54	.3	524	4	5
LJ-23 2+00E	52	55	.9	815	6	5
LJ-23 3+00E	28	47	.4	476	5	5
LJ-23 4+00E	33	67	.1	580	9	5
LJ-23 5+00E	39	89	.3	497	9	5
LJ-23 6+00E	29	36	.3	326	4	5
LJ-23 7+00E	20	33	.4	2018	2	5
LJ-23 8+00E	37	47	.1	424	3	5
LJ-23 9+00E	23	58	.2	564	3	5
LJ-23 10+00E	36	41	.2	299	2	5
LJ-23 11+00E	33	53	.5	326	5	5
STD C/AU 0.5	57	120	6.4	1084	38	510

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LJ-23 12+00E	60	36	.8	645	13	5
LJ-24 0+00E	28	421	1.1	918	39	65
LJ-24 1+00E	12	50	.1	191	3	5
LJ-24 2+00E	42	45	.7	544	6	5
LJ-24 3+50E	58	74	.3	150	4	5
LJ-24 4+00E	57	25	.8	227	2	5
LJ-24 5+00E	19	37	.1	189	2	5
LJ-24 6+00E	17	33	.2	203	4	5
LJ-24 7+00E	13	24	.2	142	2	5
LJ-24 8+00E	72	146	.7	2228	34	5
LJ-24 9+00E	29	50	.2	1043	7	5
LJ-24 10+00E	31	35	.3	3445	4	5
LJ-24 11+00E	20	35	.1	1146	2	5
LJ-24 12+00E	26	30	.2	468	2	5
STD C/AU-0.5	57	118	6.5	1079	40	505

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

DATE RECEIVED: OCT 11 1984

DATE REPORT MAILED: Oct.16/84....

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-3 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: P1-3 SOILS P4-SOILS & ROCKS P5-SOILS & SILTS AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: D. Toye. DEAN TOYE. CERTIFIED B.C. ASSAYER

TOBY CREEK RESOURCES FILE # 84-2981

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
OD-0 0E	43	75	.3	1380	57	5
OD-0 100E	41	76	.2	2484	49	5
OD-0 200E	42	88	.1	1075	55	5
OD-0 300E	46	105	.5	1218	121	5
OD-0 400E	44	99	.1	1151	67	5
OD-0 500E	40	102	.1	784	55	5
OD-0 600E	33	81	.3	750	149	5
OD-0 700E	34	67	.3	1101	23	5
OD-0 800E	44	74	.4	901	38	5
OD-0 900E	38	69	.5	976	26	5
OD-0 1000E	54	74	.1	1282	32	5
OD-0 1100E	48	88	.3	1464	27	5
OD-0 1200E	47	63	.2	982	34	35
OD-0 1300E	40	66	.2	1030	44	5
OD-0 1400E	36	64	.1	1262	27	15
OD-0 1500E	45	88	.1	1716	52	5
OD-0 1600E	37	62	.1	997	28	5
OD-0 1700E	45	67	.3	917	32	5
OD-0 1800E	31	52	.4	993	22	15
OD-0 1900E	36	46	.5	698	18	20
OD-0 1927E	38	50	.6	513	24	35
OD-1 0E	32	54	.2	2379	26	5
OD-1 100E	48	89	.2	1736	59	5
OD-1 200E	48	82	.3	1486	73	5
OD-1 300E	43	106	.2	1184	55	5
OD-1 323E	41	94	.3	1046	49	5
OD-2 0E	44	105	.2	1632	29	5
OD-2 100E	35	58	.2	848	22	5
OD-2 200E	38	60	.2	821	42	5
OD-2 300E	35	74	.2	561	48	5
OD-2 333E	48	100	.1	1265	80	5
OD-3 0E	32	71	.1	1226	29	5
OD-3 100E	34	70	.1	1078	20	5
OD-3 200E	42	80	.1	1193	41	5
OD-3 300E	43	86	.1	1055	38	5
OD-3 344E	46	98	.4	1439	58	5
STD C/AU 0.5	59	120	6.7	1062	38	505

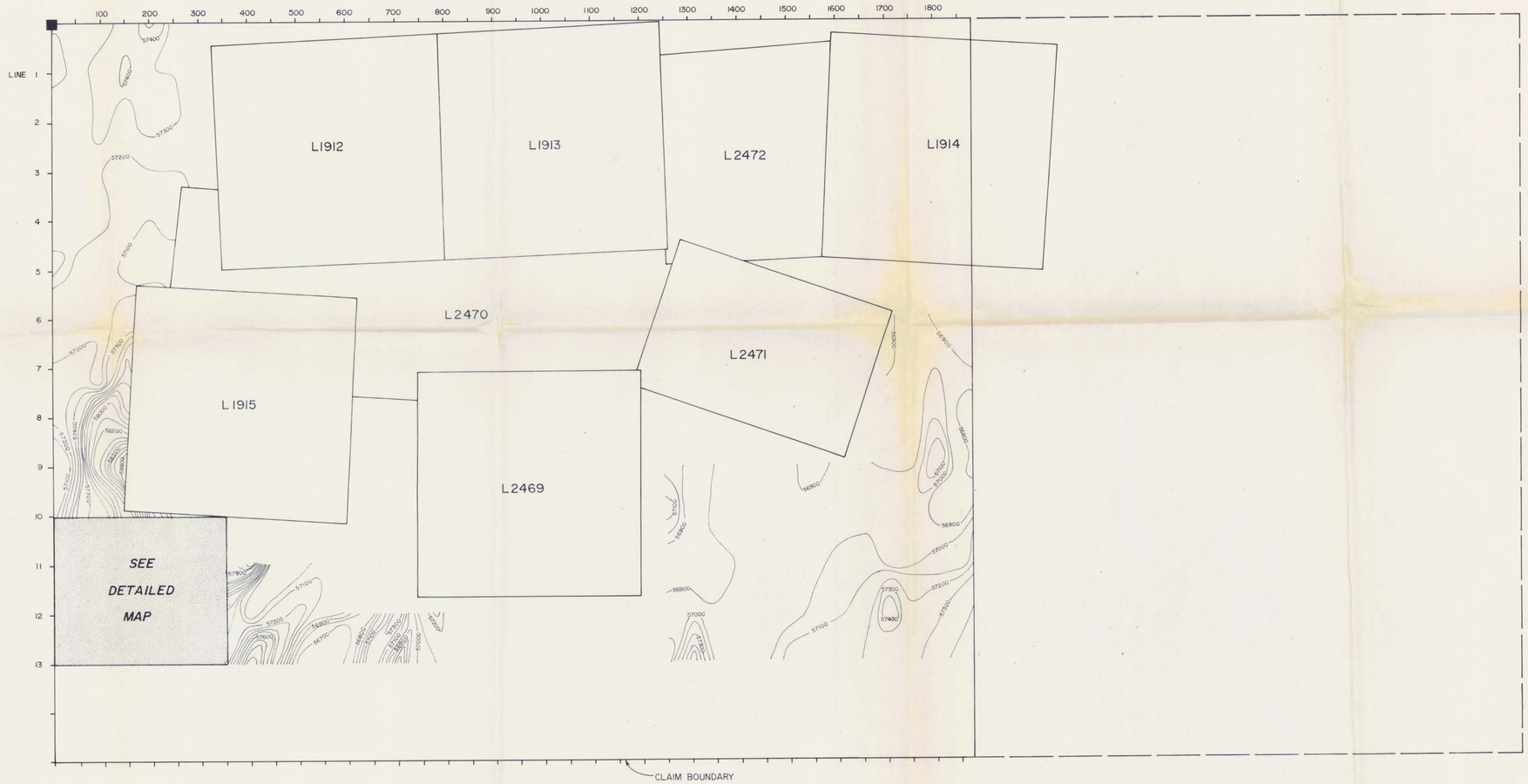
SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
OD-4 0E	32	81	.4	848	19	5
OD-4 100E	29	73	.5	887	20	5
OD-4 200E	33	74	.4	1134	34	5
OD-4 260E	29	68	.3	1101	27	25
OD-5 0E	55	79	.1	1331	32	5
OD-5 100E	29	62	.3	593	43	5
OD-5 200E	32	72	.3	1224	49	5
OD-5 229E	33	85	.3	1499	23	5
OD-6 0E	44	83	.4	1025	55	5
OD-6 100E	40	100	.3	1309	57	5
OD-6 187E	64	103	.5	904	145	10
OD-6 1700E	36	92	.3	848	38	10
OD-6 1800E	48	104	1.4	1248	267	35
OD-6 1900E	43	122	.5	926	49	15
OD-7 0E	47	102	.4	1185	86	5
OD-7 100E	46	128	.6	1261	37	5
OD-7 172E	39	105	.7	954	106	10
OD-7 1700E	33	96	1.0	1040	110	15
OD-7 1800E	40	78	.9	632	90	15
OD-7 1900E	41	88	.6	1435	24	5
OD-8 0E	38	77	.5	939	20	20
OD-8 100E	32	92	.4	874	32	5
OD-8 157E	29	89	.3	854	33	5
OD-8 1700E	58	243	2.9	1952	370	70
OD-8 1800E	31	104	.7	878	94	5
OD-8 1900E	46	124	.5	1203	73	15
OD-9 0E	24	101	.1	946	19	5
OD-9 100E	31	105	.2	812	21	5
OD-9 600E	29	75	.1	618	58	5
OD-9 700E	22	49	.3	485	26	5
OD-9 1100E	37	77	.1	630	132	25
OD-9 1200E	28	86	.6	574	32	10
OD-9 1300E	29	67	.3	445	34	5
OD-9 1400E	44	105	.5	1097	58	5
OD-9 1500E	31	64	.5	567	35	5
STD C/AU 0.5	58	118	6.9	1082	39	500

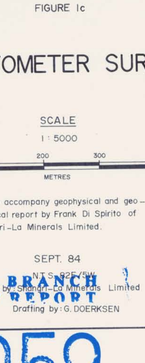
TOBY CREEK RESOURCES FILE # 84-2981

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LA 100N 500W	16	124	.1	2236	15	5
LA 100N 400W	61	126	1.1	1195	78	5
LA 100N 300W	30	71	.3	1416	47	5
LA 100N 200W	35	78	.3	682	52	5
LA 100N 100W	34	56	.3	616	45	5
LA 100N 0W	33	65	.2	1352	69	5
LA 0N 500W	23	38	.5	171	19	5
LA 0N 400W	37	71	.3	1440	27	5
LA 0N 300W	30	77	.6	382	42	5
LA 0N 200W	37	79	.4	511	46	5
LA 0N 100W	37	66	.4	861	42	5
LA 0N 0W	35	73	.2	1246	47	5
LA 11N	19	23	.2	591	8	5
LA 9N	18	22	.2	534	6	5
LA 6N	19	22	.1	564	7	5
LA 3N	15	21	.2	347	5	5
LA 2N	15	23	.2	394	7	5
LA 5E	12	25	.2	547	6	5
LA 7E	19	23	.1	605	10	5
LA 8E	18	22	.1	573	8	5
LA 10E	23	24	.2	694	8	5
LA 10E+50	19	23	.1	596	8	5
LA 12W	8	22	.2	351	5	5
LA 4W	22	24	.1	324	4	5
LA 2W	8	18	.1	270	5	5
STD C/AU 0.5	58	121	6.8	1086	42	505

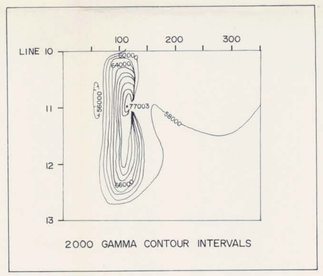
SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
LA 100N 500W	16	124	.1	2236	15	5
LA 100N 400W	61	126	1.1	1195	78	5
LA 100N 300W	30	71	.3	1416	47	5
LA 100N 200W	35	78	.3	682	52	5
LA 100N 100W	34	56	.3	616	45	5
LA 100N 0W	33	65	.2	1352	69	5
LA 0N 500W	23	38	.5	171	19	5
LA 0N 400W	37	71	.3	1440	27	5
LA 0N 300W	30	77	.6	382	42	5
LA 0N 200W	37	79	.4	511	46	5
LA 0N 100W	37	66	.4	861	42	5
LA 0N 0W	35	73	.2	1246	47	5
LA 11N	19	23	.2	591	8	5
LA 9N	18	22	.2	534	6	5
LA 6N	19	22	.1	564	7	5
LA 3N	15	21	.2	347	5	5
LA 2N	15	23	.2	394	7	5
LA 5E	12	25	.2	547	6	5
LA 7E	19	23	.1	605	10	5
LA 8E	18	22	.1	573	8	5
LA 10E	23	24	.2	694	8	5
LA 10E+50	19	23	.1	596	8	5
LA 12W	8	22	.2	351	5	5
LA 4W	22	24	.1	324	4	5
LA 2W	8	18	.1	270	5	5
STD C/AU 0.5	58	121	6.8	1086	42	505

SAMPLE#	Cu ppm	Zn ppm	Ag ppm	Mn ppm	As ppm	Au* ppb
OD-12 1400E	33	85	.6	717	151	5
OD-12 1500E	23	72	.4	579	67	5
OD-12 1600E	35	112	.6	1213	138	5
OD-12 1700E	27	95	.4	757	39	5
OD-12 1800E	36	97	.3	1328	98	5
OD-12 1900E	23	104	.3	1751	33	5
OD-13 800E	37	124	.3	2112	115	5
OD-13 900E	34	87	.1	1588	73	5
OD-13 1000E	33	113	.3	1409	181	10
OD-13 1100E	39	84	.3	832	101	5
OD-13 1200E	27	71	.3	537	85	5
OD-13 1300E	24	88	.2	813	66	10
OD-13 1400E	19	66	.2	549	64	5
OD-13 1500E	18	58	.1	409	88	10
OD-13 1600E	25	82	.2	657	57	10
OD-13 1700E	24	108	.2	3416	198	5
OD-13 1800E	32	101	.1	758	83	5
OD-13 1900E	28	109	.1	933	51	5
OD-1912CG 4(NEW ADT)	28	657	1.6	204	1079	595
STD C/AU 0.5	58	116	6.3	1137	38	500





DETAILED MAP



LEGEND

100 GAMMA CONTOUR INTERVALS

TOBY CREEK RESOURCES LTD.

OLD DIGGINGS CLAIM

FIGURE 1c

MAGNETOMETER SURVEY

SCALE

1 : 5000

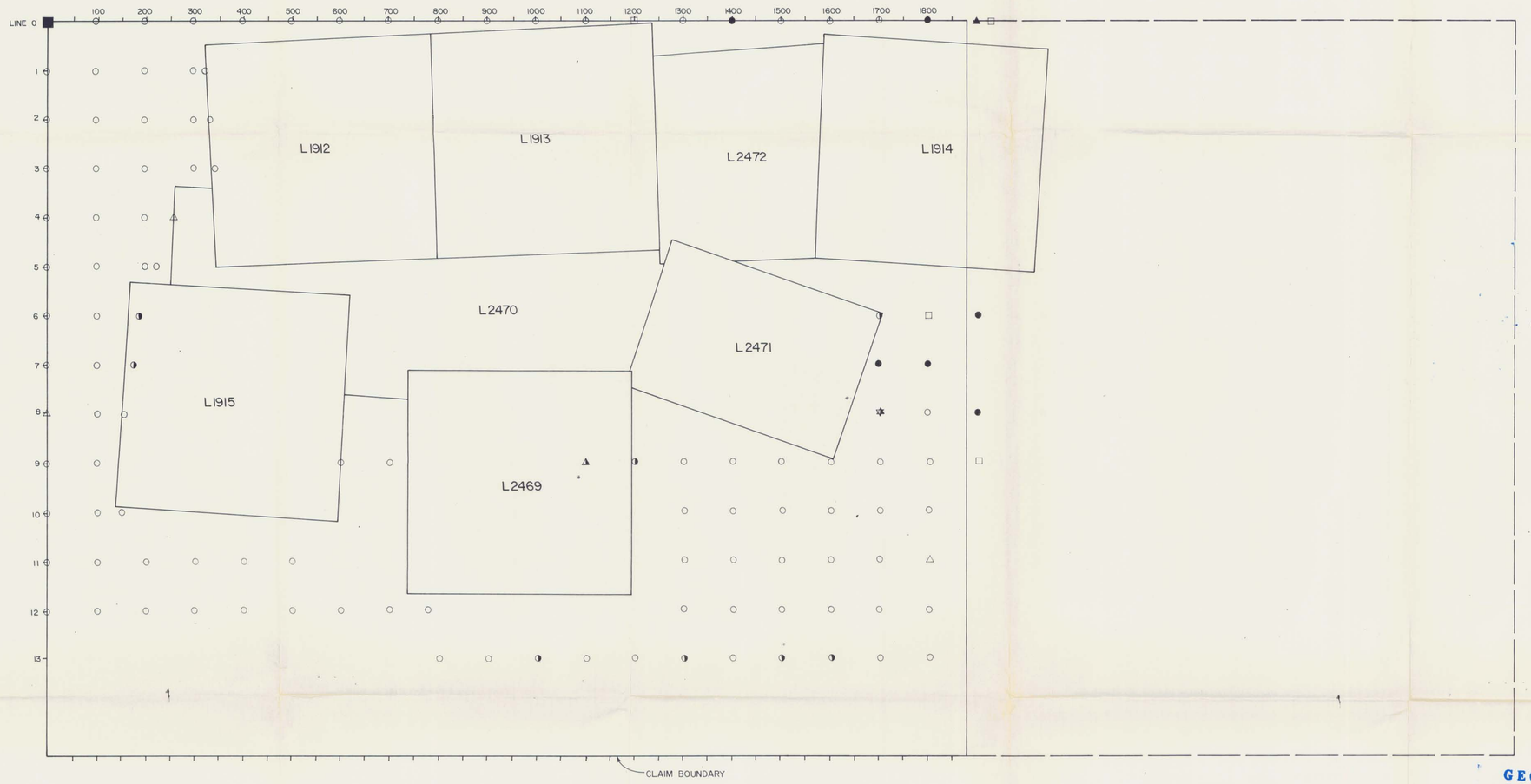
50 0 100 200 300 400 500

METRES

Map to accompany geophysical and geo-chemical report by Frank Di Spirito of Shangri-La Minerals Limited.

SEPT. 84

Drafting by: G. DOERKSEN



LEGEND

○	0-5 ppb Au
◑	6-10
●	11-15
△	16-20
◭	21-25
▲	26-30
□	31-35
◨	36-40
■	41-45
○	46-50
◑	51-55
●	56-60
✡	61-65
✡	66-100
✱	100 +

TOBY CREEK RESOURCES LTD.

OLD DIGGINGS CLAIM

FIGURE Id

Au GEOCHEMISTRY

SCALE

1 : 5000

50 0 100 200 300 400 500

METRES

Map to accompany geophysical and geo-chemical report by Frank Di Spirito of Shangri-La Minerals Limited.

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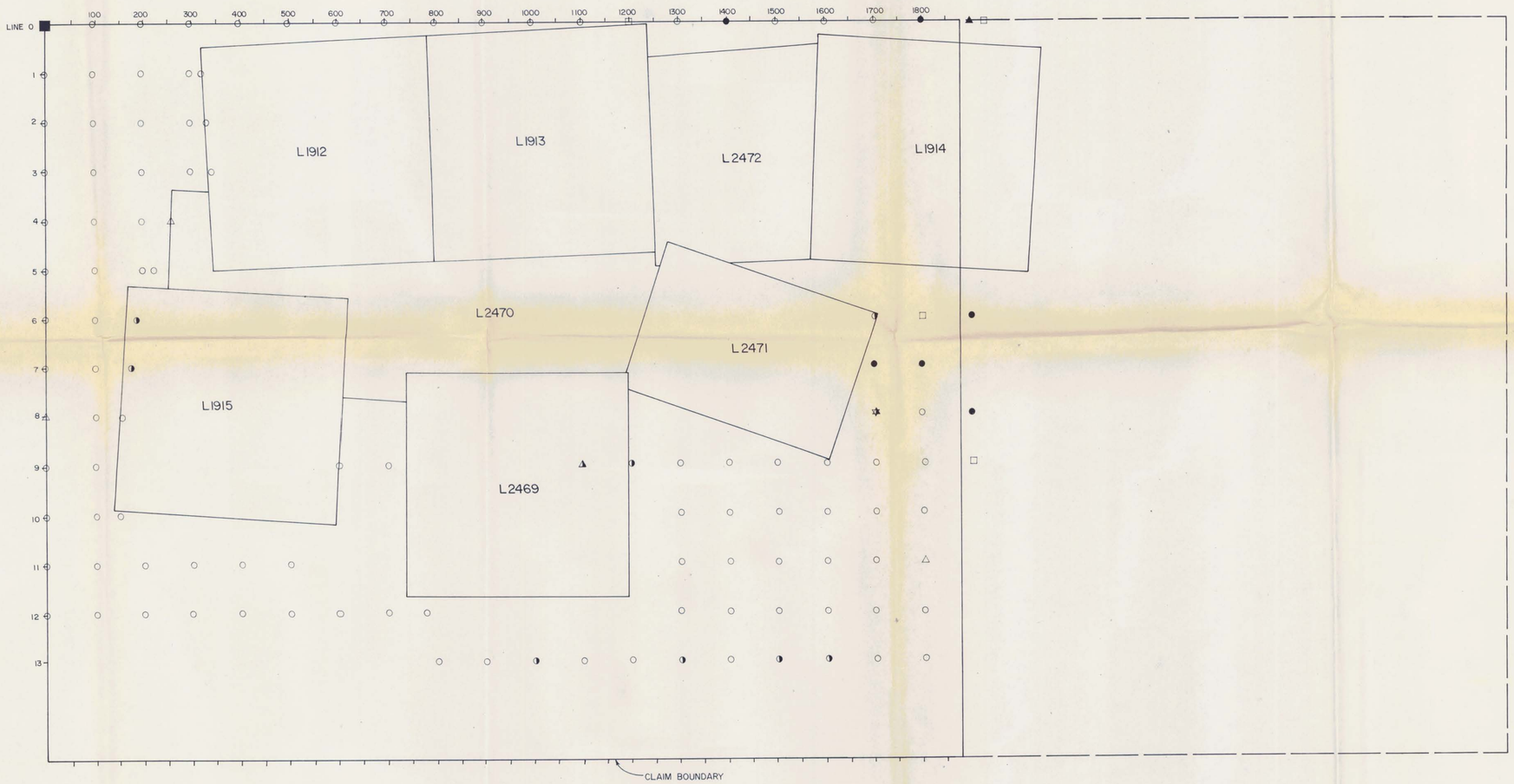
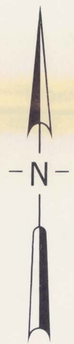
N.T.S. 82E/SW

Work by: Shangri-La Minerals Limited

Drafting by: G. DOERKSEN





LEGEND

○	0-5 ppb Au
◑	6-10
●	11-15
△	16-20
◭	21-25
▲	26-30
□	31-35
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■	41-45
○	46-50
◑	51-55
●	56-60
✡	61-65
✡	66-100
✱	100 +

TOBY CREEK RESOURCES LTD.

OLD DIGGINGS CLAIM

FIGURE 1d

Au GEOCHEMISTRY

SCALE

1 : 5000

50 0 100 200 300 400 500

METRES

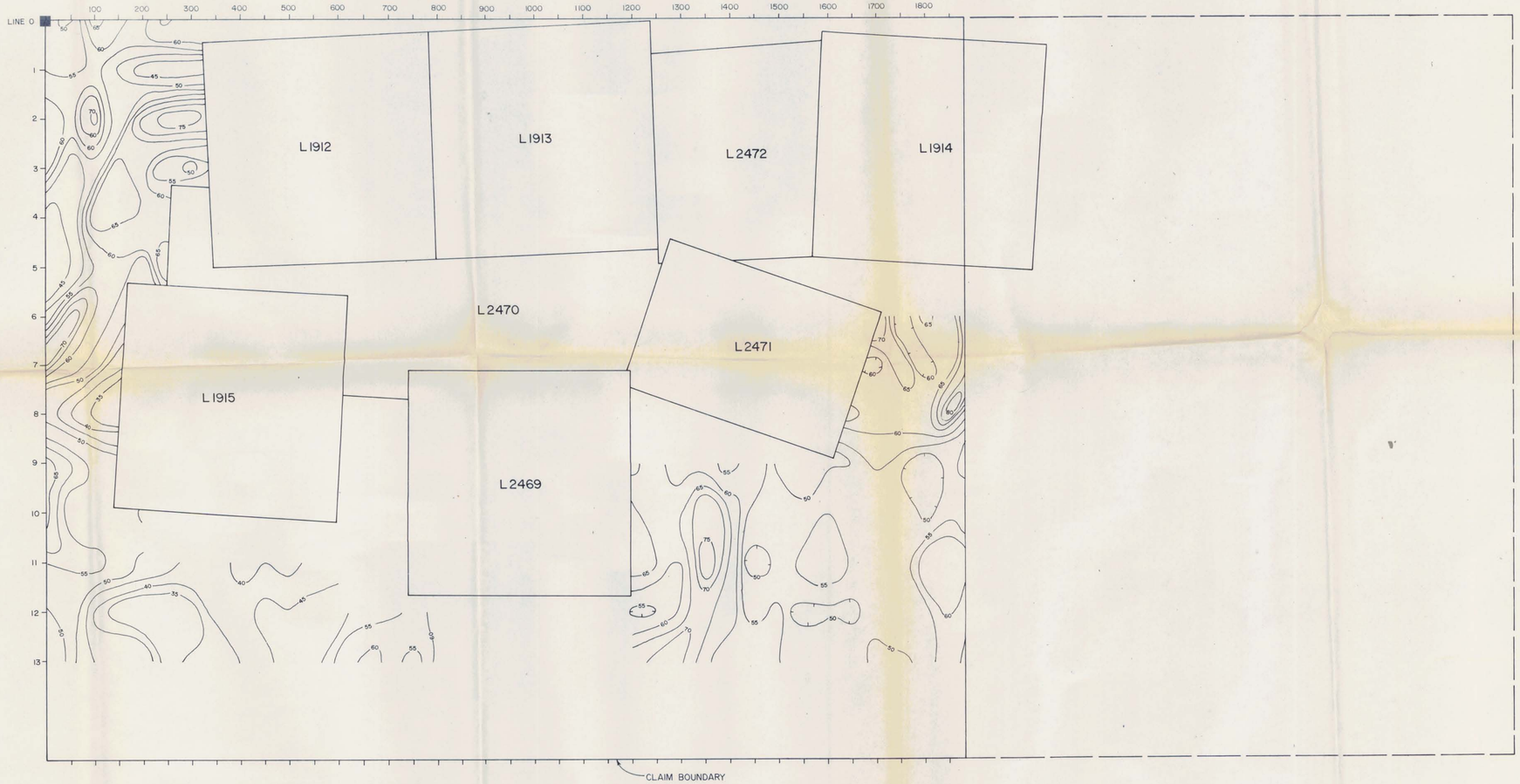
Map to accompany geophysical and geo – chemical report by Frank Di Spirito of Shangri-La Minerals Limited.

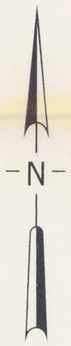
SEPT. 84

N.T.S. 82E/5W

Work by : Shangri-La Minerals Limited

Drafting by : G. DOERKSEN





LEGEND

CONTOUR INTERVAL IN % OF TOTAL FIELD STRENGTH

TOBY CREEK RESOURCES LTD.

OLD DIGGINGS CLAIM

FIGURE 1e

VLF-EM SURVEY

FIELD STRENGTH

SCALE

1 : 5000

50 0 100 200 300 400 500

METRES

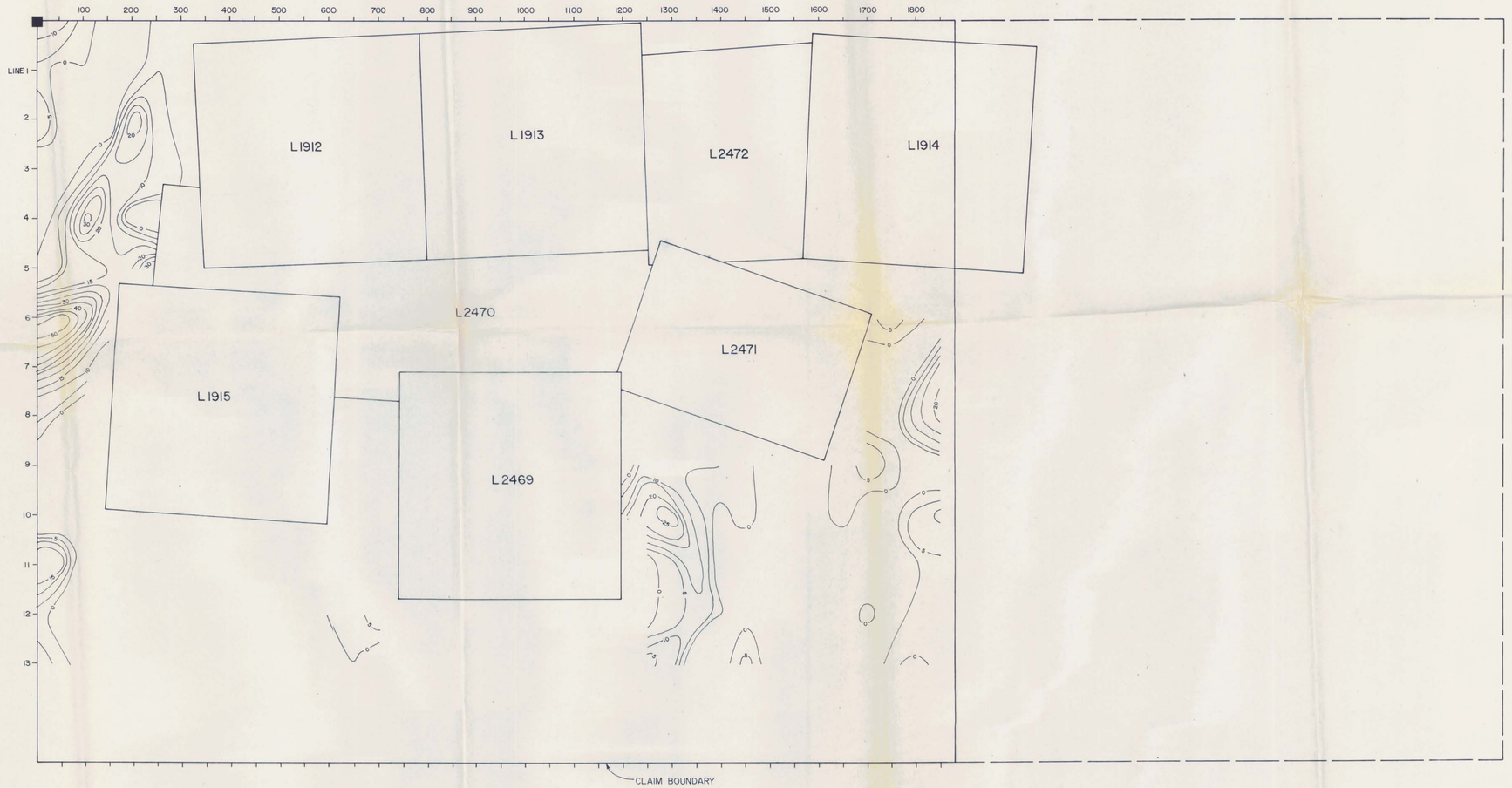
Map to accompany geophysical and geo-chemical report by Frank Di Spirito of Shangri-La Minerals Limited.

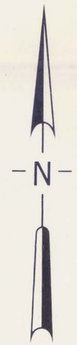
SEPT. 84

N.T.S. 82E/5W

Work by: Shangri-La Minerals Limited

Drafting by: G. DOERKSEN





LEGEND

CONTOUR INTERVAL 5 FRASER FILTER DEGREE UNITS

TOBY CREEK RESOURCES LTD.

OLD DIGGINGS CLAIM

FIGURE 1f

VLF-EM SURVEY

FILTERED DIP ANGLES

SCALE

1 : 5000

50 0 100 200 300 400 500

METRES

Map to accompany geophysical and geo-chemical report by Frank Di Spirito of Shangri-La Minerals Limited.

SEPT. 84

N.T.S. 82E/SW

Work by : Shangri-La Minerals Limited

Drafting by : G. DOERKSEN

LEGEND

- 1 granodiorite
- 2 andesite (Wolfe Ck. Fm.)
- 3 quartz-hornblende porphyry

SYMBOLS

- bedding (vertical, dipping)
- jointing " "
- cleavage " "
- fault
- outcrop
- subcrop
- creek
- marsh
- assumed contact

PARAGENESIS

TIME	MID TRIASSIC	JURASSIC	CRETACEOUS	RECENT
GRANODIORITE			———	
ANDESITES	———			
QTZ-HBL PORPHYRY	———			
BEDDING	———			
CLEAVAGE		———		
JOINTING			——— ———	
FAULTING			——— ———	
GLACIATION			———	

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — F. DISPIRITO

TOBY CREEK RESOURCES LTD.

LJUBO CLAIM

FIGURE 2b

GEOLOGICAL BRANCH ASSESSMENT REPORT

GEOLOGY

BY LARRY RITEMAN, B.Sc.

14,059

SCALE 1 : 5000

50 0 100 200 300 400 500

METRES

Map to accompany geophysical and geochemical report by Frank Di Spirito of Shangri-La Minerals Limited.

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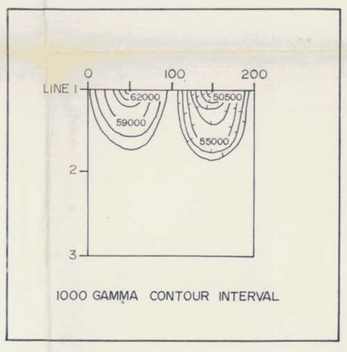
N.T.S. 82E/5W

Work by: Shangri-La Minerals Limited.

Drafting by: G. DOERKSEN

DETAILED MAP



1000 GAMMA CONTOUR INTERVAL

LEGEND

100 GAMMA CONTOUR INTERVAL

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
F. DISPIRITO

TOBY CREEK RESOURCES LTD.

LJUBO CLAIM

FIGURE 2c

MAGNETOMETER SURVEY

SCALE

1 : 5000

50 0 100 200 300 400 500

METRES

Map to accompany geophysical and geochemical report by Frank Di Spirito of Shangri-La Minerals Limited.

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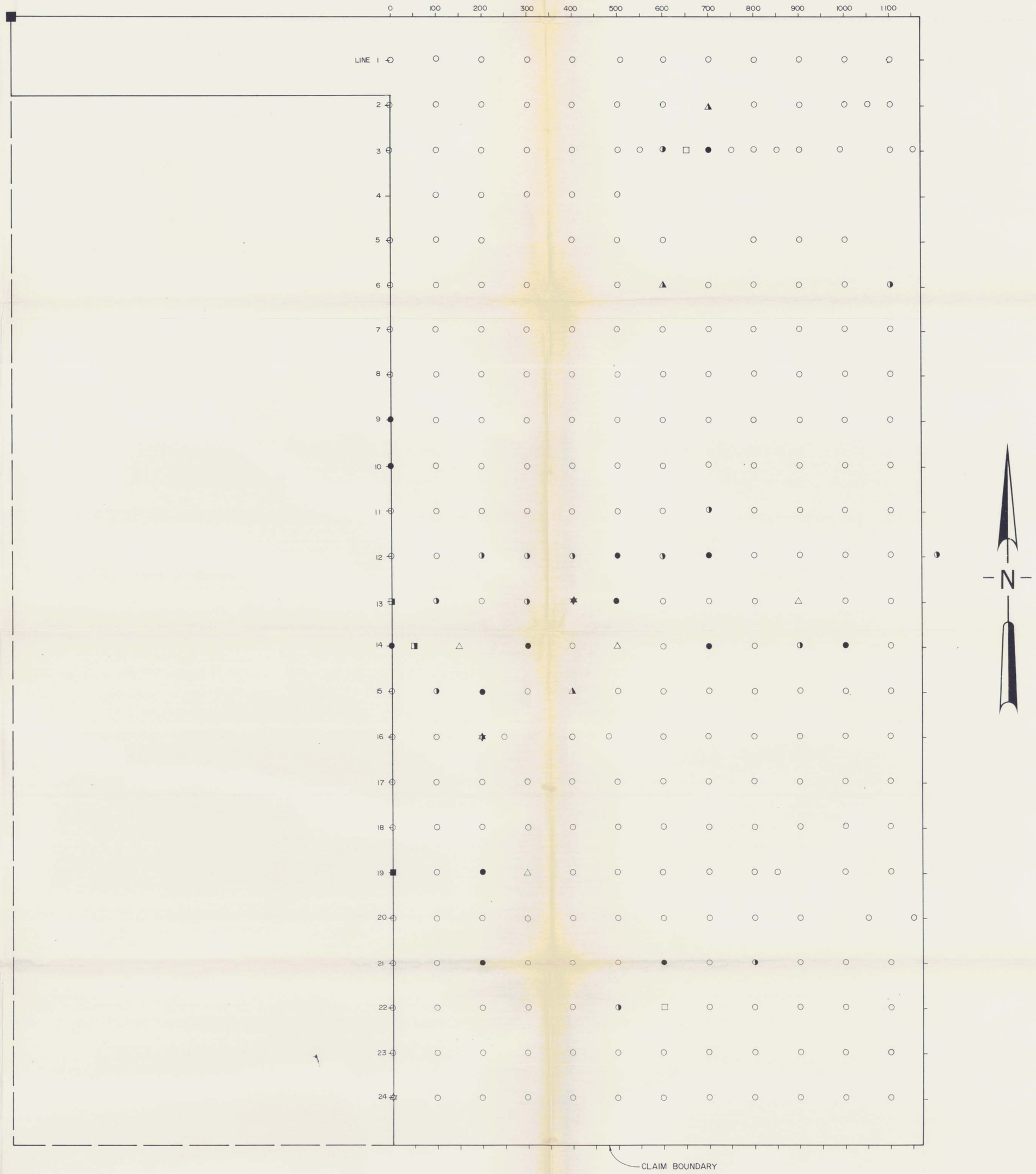

LEGEND

○	0-5 ppb Au
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◨	36-40
■	41-45
○	46-50
◑	51-55
●	56-60
✡	61-65
✡	66-100
✸	100 +

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
F. DISPIRITO

TOBY CREEK RESOURCES LTD.

LJUBO CLAIM

FIGURE 2d

Au GEOCHEMISTRY

SCALE

1 : 5000

50 0 100 200 300 400 500

METRES

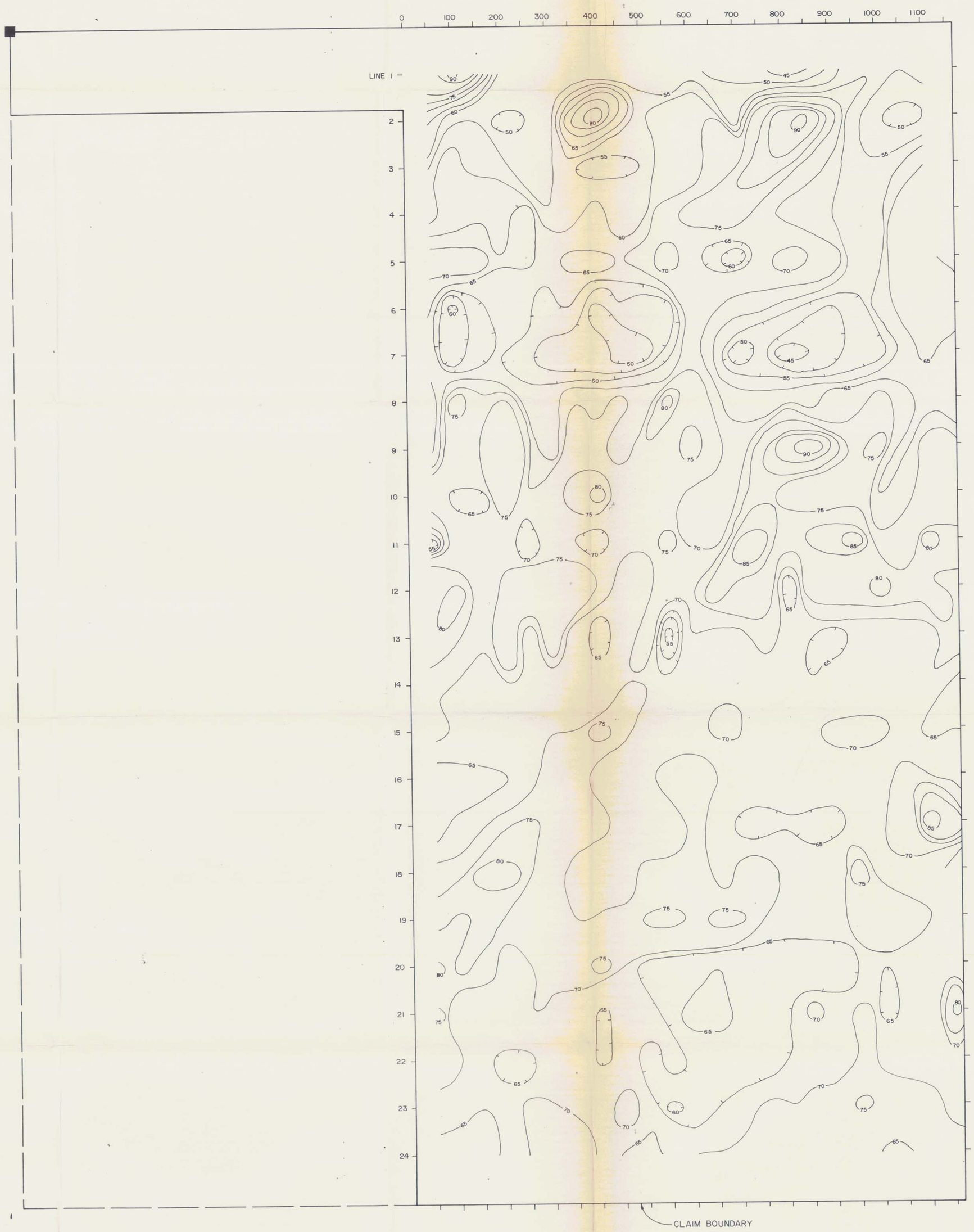
Map to accompany geophysical and geo-chemical report by Frank Di Spirito of Shangri-La Minerals Limited.

SEPT. 84

N.T.S. 82E/5W

Work by: Shangri-La Minerals Limited

Drafting by: G. DOERKSEN



LEGEND

CONTOUR INTERVAL IN % OF TOTAL FIELD STRENGTH

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
F. DISPIRITO

TOBY CREEK RESOURCES LTD.

LJUBO CLAIM

FIGURE 2e

VLF-EM SURVEY

FIELD STRENGTH

SCALE

1 : 5000

50 0 100 200 300 400 500

METRES

Map to accompany geophysical and geo-chemical report by Frank Di Spirito of Shangri-La Minerals Limited.

SEPT. 84

N.T.S. 82E/5W

Work by: Shangri-La Minerals Limited

Drafting by: G. DOERKSEN

LEGEND

CONTOUR INTERVAL 5 FRASER FILTER DEGREE UNITS

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
F. DISPIRITO

TOBY CREEK RESOURCES LTD.

LJUBO CLAIM

FIGURE 2f

VLF-EM SURVEY

FILTERED DIP ANGLES

SCALE

1 : 5000

50 0 100 200 300 400 500

METRES

Map to accompany geophysical and geo-chemical report by Frank Di Spirito of Shangri-La Minerals Limited.

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N.T.S. 82E/5W

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Drafting by: G. DOERKSEN