

004189

**GEOLOGICAL REPORT
ON THE
LUCKY BOY PROPERTY**

Golden Mining Division, B.C.
NTS 82K/8W
(50°21'N, 116°23'W)

for

RALEIGH ENERGY CORP.
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by

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July 1991

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SUMMARY

Raleigh Energy Corp. has an option to earn a 100% interest in 8 mineral claims (46 units) collectively referred to as the Lucky Boy property. The claims are situated in one contiguous block centered approximately 34 kilometres southwest of Invermere, in the Purcell Mountains, Golden Mining Division (NTS 82K/8W), British Columbia. The property is accessible by road.

The ground is located in an area underlain by Precambrian age strata of the Dutch Creek formation. On the property the Dutch Creek formation consists of interbedded slate and limestone. The crest of a northerly plunging anticline passes through the property. Silver-lead-copper-zinc mineralization is hosted in a steep-dipping northwesterly trending quartz filled shear. The shear zone has been traced by geophysical techniques for a strike length of 1.5 km and is open at either end. Selected grab samples from dumps on the property have assayed as high as 0.226 oz/t gold, 86.95 oz/t silver, 2.61% lead, 1.41% zinc and 8.17% copper.

Previous work on the claim group consisted of geological mapping, soil sampling and induced polarization and magnetometer surveys. Results of this work were successful in defining the surface extent of the mineralized shear zone.

Further work is strongly recommended to test the down dip extensions of the known mineralization and to continue evaluation of the property. The estimated cost of the recommended program is \$75,000.

RECOMMENDATIONS

An exploration program is recommended to further evaluate the Lucky Boy property. Work should be undertaken with the objective of locating mineralized shoots along the vein structure as well as zones of replacement mineralization within the adjacent carbonate sequence.

The work program should consist of approximately 1500 feet of diamond drilling in 6 holes ranging in depth from 150 to 400 feet. The drilling should be conducted from sites located immediately west of the vein with holes inclined to the east in order to crosscut the vein at depth.

Contingent upon the success of this work detailed drilling will be required to fully evaluate the property.

Respectfully submitted,
Amerlin Exploration Services Ltd.

Carl G. Verley.

Carl G. Verley, F.G.A.C.

Vancouver, B.C.
July 26, 1991.

INTRODUCTION

The Lucky Boy property consists of 8 mineral claims (46 units) situated in the Toby Creek area of the Golden Mining Division, B.C. Raleigh Energy Corp. has an option to acquire a 100% interest in the ground from Mr. Klaus Kromholz.

The writer was retained by Raleigh Energy Corp. to review previous exploration programs on the claims and examine the property itself. This report is based upon the results of that review and field examination. Previous exploration results provide justification for further work on the claims. An exploration program for further development of the property is presented.

LOCATION

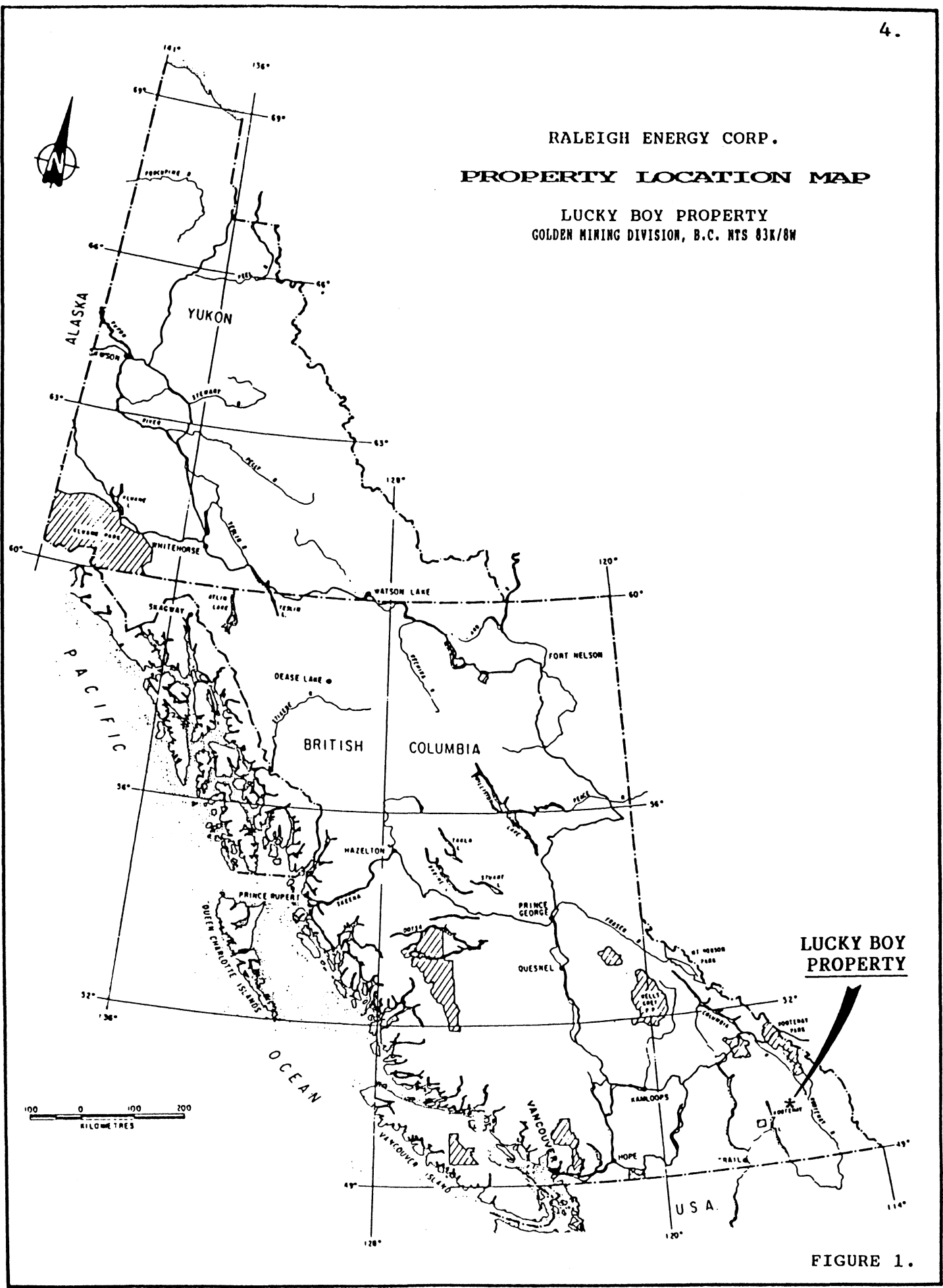
The claim group is centered approximately 34 kilometres southwest of Invermere in the Golden Mining Division, B.C. at latitude $50^{\circ}21'N$ and longitude $116^{\circ}23'W$, covering part of map-sheet 82K/8W (Figure 1).

PHYSIOGRAPHY

The ground consists of a steep northwesterly sloping mountain side. Elevations range from 1250 to 2300 meters (4100 to 7500 feet) above sea level. The property is forested; creek gullies and slide areas are covered with dense alder growth.

RALEIGH ENERGY CORP.
PROPERTY LOCATION MAP

LUCKY BOY PROPERTY
GOLDEN MINING DIVISION, B.C. NTS 83K/8W



**LUCKY BOY
PROPERTY**

FIGURE 1.

ACCESS

The property is accessible by a paved road leading from the town of Invermere to the Panorama Ski resort (19 km) then by gravel road to the property a further 15 kilometers. On the property a four-wheel drive accessible bulldozer trail leads to the adits on the vein structure.

HISTORY

The Invermere area has a mineral development history that goes back to the 1890's; at that time the first prospects were located in the area. Silver-lead-zinc were the prime commodities from most of the operations with some yielding by-product copper and cadmium. Activity was intermittent with minor production from some of the showings occurring in the 1900's, late 1910's and 1920's. Significant mining was achieved in the 1950's. The Mineral King Mine, located 4.3 kilometres west of the Lucky Boy, commenced production in 1954 and continued in operation until 1967 (Magee and Cummings, 1960). The Paradise Mine, located 15 kilometres north-northeast of the Lucky Boy, was mined from 1950 to 1952.

The showings on the Lucky Boy property were probably discovered about 1898. Exploration of the ground by a series of short adits commenced about 1905. No production is reported from the property, however development work in one of the adits,

consisting of a raise and a small stoped out area, suggests that some mineralization was "high-graded" from the property. In 1987 a geological and geochemical assessment of the property was conducted by G.M. Rodgers (Rodgers, 1987). In 1988 Quantum Resource Corp. conducted a mapping and sampling program on the property which included induced polarization and magnetometer surveys (Di Spirito, 1988). First Star Capital Corporation acquired the property in 1989 and conducted further mapping, sampling as well as a VLF survey (Vohra, 1989). In October 1990 Aurum Geological Consultants Inc. conducted further sampling and mapping work on the property (Smith and Keyser, 1991) on behalf of First Star Capital Corporation.

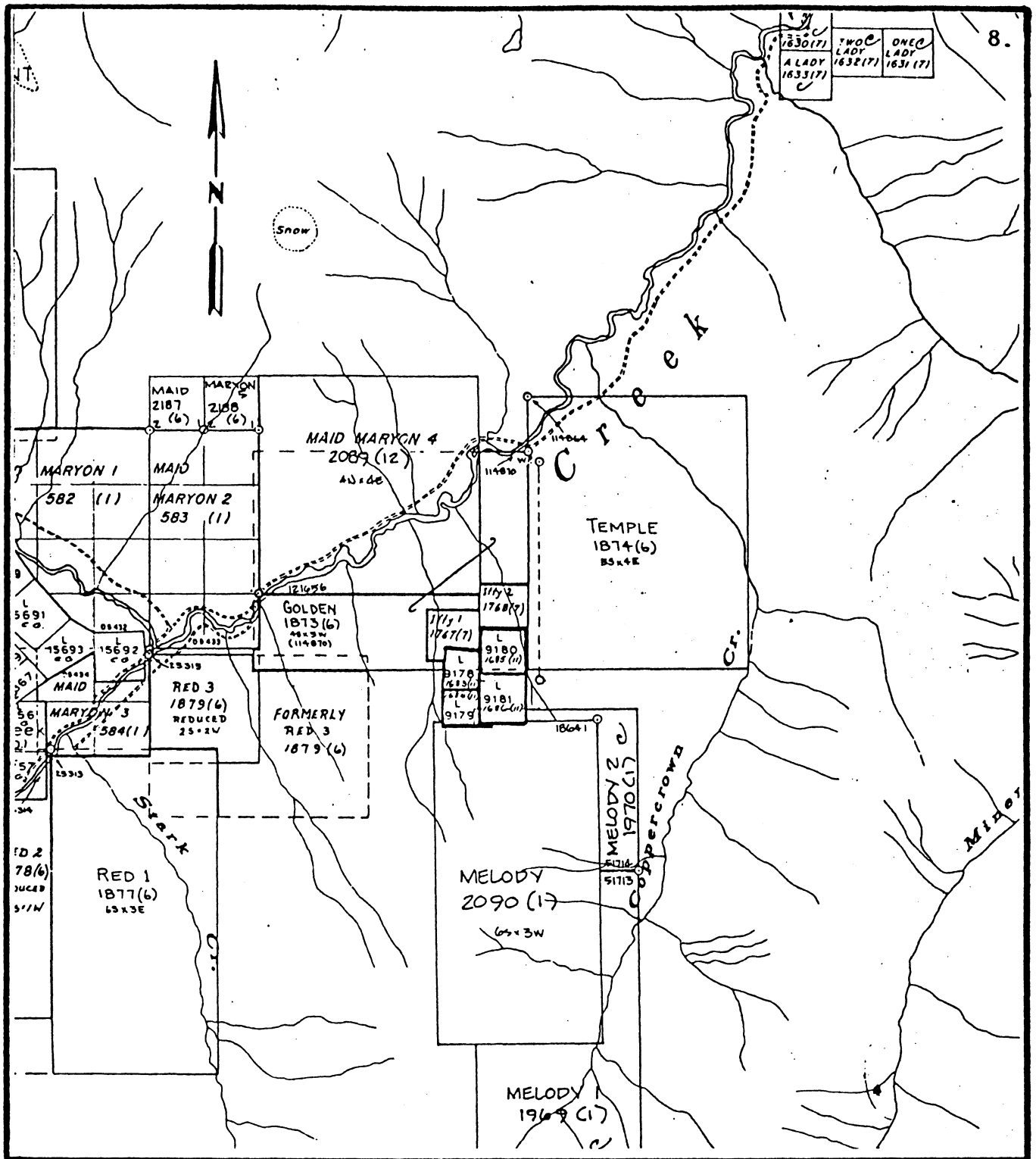
PROPERTY

The Lucky Boy property consists of a contiguous block of 46 units in 8 mineral claims as tabulated below and illustrated on Figure 2. The claims are located in the Golden Mining Division, B.C. (NTS 82K/83W).

Raleigh Energy Corp. has the right to earn a 100% interest in the claims by fulfilling the terms of an option agreement granted by Klaus Kromholz.

Table 1 - Mineral Claims

| <u>Claims</u> | <u>Units</u> | <u>Old Record No.</u> | <u>New Record No.</u> | <u>Expiry Date</u> |
|---------------|--------------|---------------------------|---------------------------|--------------------|
| BLACKBIRD | 1 | 1683 | 213351 | Nov. 10/1999 |
| GREY EAGLE | 1 | 1684 | 213353 | Nov. 10/1999 |
| LUCKY BOY | 1 | 1685 | 213354 | Nov. 10/1999 |
| DELIGHT | 1 | 1686 | 213355 | Nov. 10/1999 |
| IFFY 1 | 1 | 1767 | 213404 | Jul. 28/1999 |
| IFFY 2 | 1 | 1768 | 213405 | Jul. 28/1999 |
| GOLDEN | 20 | 1873 | 213425 | June 7/1997 |
| TEMPLE | 20 | 1874 | 213426 | June 7/1996 |



RALEIGH ENERGY CORP.

CLAIM MAP

LUCKY BOY PROPERTY
GOLDEN MINING DIVISION, B.C. NTS 82K/8W

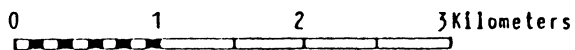


FIGURE 2.

GEOLOGY

REGIONAL

The Lucky Boy property is situated in Precambrian sediments that onlap and are part of the craton of ancestral North America (Wheeler, et al., 1989). Intrusion into the sedimentary succession of small stocks of granodiorite to the south of the property and plutons of granitic rocks to the north, occurred during Jurassic and Cretaceous times. Folding of the sedimentary succession into a series of northwesterly-trending open anticlines and synclines also took place during Mesozoic times. The Rocky Mountain trench, thought to be a major northwest-trending fault, is believed to be another Mesozoic age structural element (Reesor, 1973). The trench is located 20 kilometres east of the claims.

PROPERTY

The Lucky Boy property is underlain by sediments of the Helikian age Dutch Creek formation. The Dutch Creek formation consists of argillite, slate, quartzite and carbonate rocks. The formation is estimated to be 1340 metres (4400 feet) thick. The Mount Nelson and Kitchener-Siyah formations overlie and underlie the Dutch Creek respectively. The Mount Nelson, estimated to be 1200 metres (4000 feet) thick is composed of buff to grey dolostone, dolomitic limestone, slate, argillite and quartzite.

The Kitchener-Siyah formation is 2000 metres (6500 feet) thick and consists of very thin bedded quartzite, black argillite, dolostone and limy argillite.

Structurally the Lucky Boy claims are situated in the hinge of an open, gently northwesterly plunging anticline. North-northwesterly trending, steep dipping fissures in the Dutch Creek formation on the Lucky Boy are mineralized with galena and tetrahedrite-bearing quartz veins. These structures may extensional openings that developed at the last stage of the fold forming event.

MINERALIZATION

The stratigraphic and structural setting, and known mineralization on Raleigh's claims are indicative of an environment that is permissive for the development of several types of mineral deposit. These include:

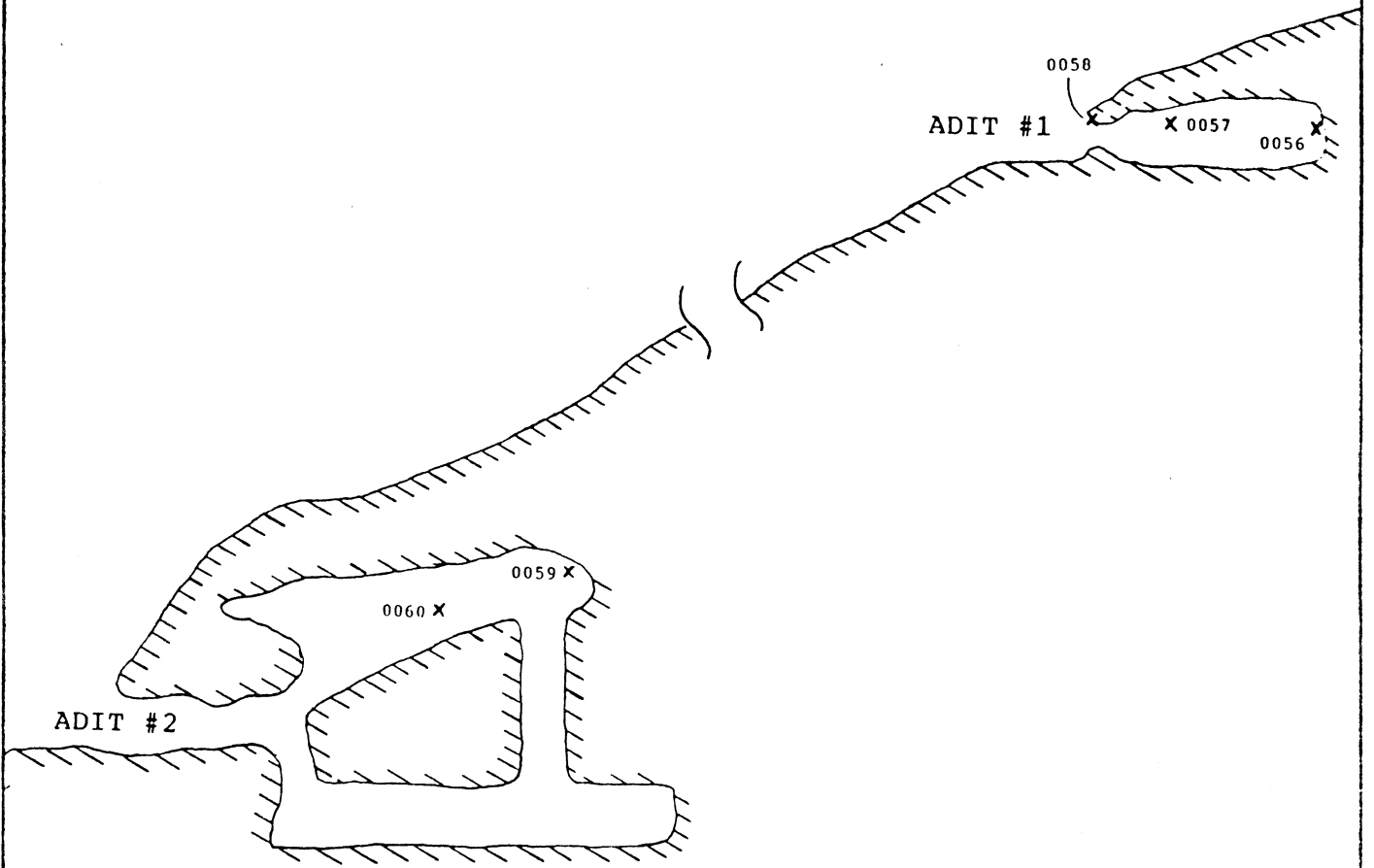
- i) Ag-Pb-Cu-Zn(+Au) extensional vein type deposits
- ii) Ag-Pb-Zn-Cu(+Au) replacement deposits

The claims have excellent potential for hosting Ag-Pb-Cu-Zn(+Au) vein type deposits similar to other deposits in the Toby Creek mining camp, such as the Paradise mine (Walker, 1926) where 71,240 tons averaging 10.35 oz/t Ag, 11.21% Pb and 5.6% Zn was mined, primarily during the period 1950 - 1952. There is also potential for locating replacement deposits in the carbonates adjacent to the mineralized shear on the Lucky Boy property. An example of one of these types of deposits is the Mineral King mine located 4.3 km to the west of the claims. At the Mineral King silver-lead-zinc ore occurs as irregular bodies replacing carbonates of the Mount Nelson formation. Northerly trending faults are an important control for localization of the ore bodies (Fyles, 1960). From 1954 to 1967 the Mineral King produced 2,317,600 tons of ore averaging 0.80 oz/t Ag, 1.78% Pb, 0.03% Cu, 4.2% Zn.

On the Lucky Boy property a quartz-filled fault or shear zone containing galena and tetrahedrite constitutes the

primary exploration target. The vein has been explored by 7 short adits all of which were probably driven in the early 1900's. The writer examined the vein in two adits: one at the 1660 metre (5450') altitude, which corresponds to Di Spirito's adit #1 and another at the 1615 metre (5300') altitude corresponds to Di Spirito's adit #2 (Figure 2 and 3). The vein at these locations strikes 160° to 166° , and dips 55° to 67° to the west. The vein varies from 15 cm in width in the upper adit to 60 cm in width in the lower adit. The vein starts from the footwall side as a narrow (2-3 cm) intensely sheared zone that is limonitic, going into a zone 4 to 6 cm wide of sheared, locally vuggy quartz-carbonate material with limonite, malachite and azurite stain. This zone gives way to the core of the vein which is 30 to 40 cm wide in the lower adit and consists of a shattered, generally massive milky white quartz that is commonly limonite stained.

Sample (0056) taken across a 10 cm width of the vein in the upper adit (ie #1) assayed: 2.09 oz/t Ag, 1.33% Pb, 0.20% Cu and 0.15% Zn. Samples (0057 and 0058) taken in the upper adit across 4 cm wide sheared and limonitic portions of the vein assayed: 0.96 oz/t Ag, 0.25% Pb, 0.08% Cu, 0.05% Zn and 0.90 oz/t Ag, 0.11% Pb, 0.15% Cu, 0.07% Zn respectively. Samples taken in the lower adit (ie #2): 0059 across the entire 60 cm width of the vein and 0060 across the sheared limonitic footwall portion of the vein assayed: 0.87 oz/t Ag, 0.16% Pb, 0.98% Cu, 0.17% Zn and 3.70 oz/t Ag, 0.46% Pb, 1.56% Cu, 0.28% Zn respectively.



X 0056: Sample location and number

SECTIONAL VIEW LOOKING EAST

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SKETCH OF ADITS #1 AND #2
SHOWING SAMPLE LOCATIONS

LUCKY BOY PROPERTY
GOLDEN MINING DIVISION, B.C. NTS 82K/8W

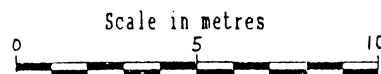
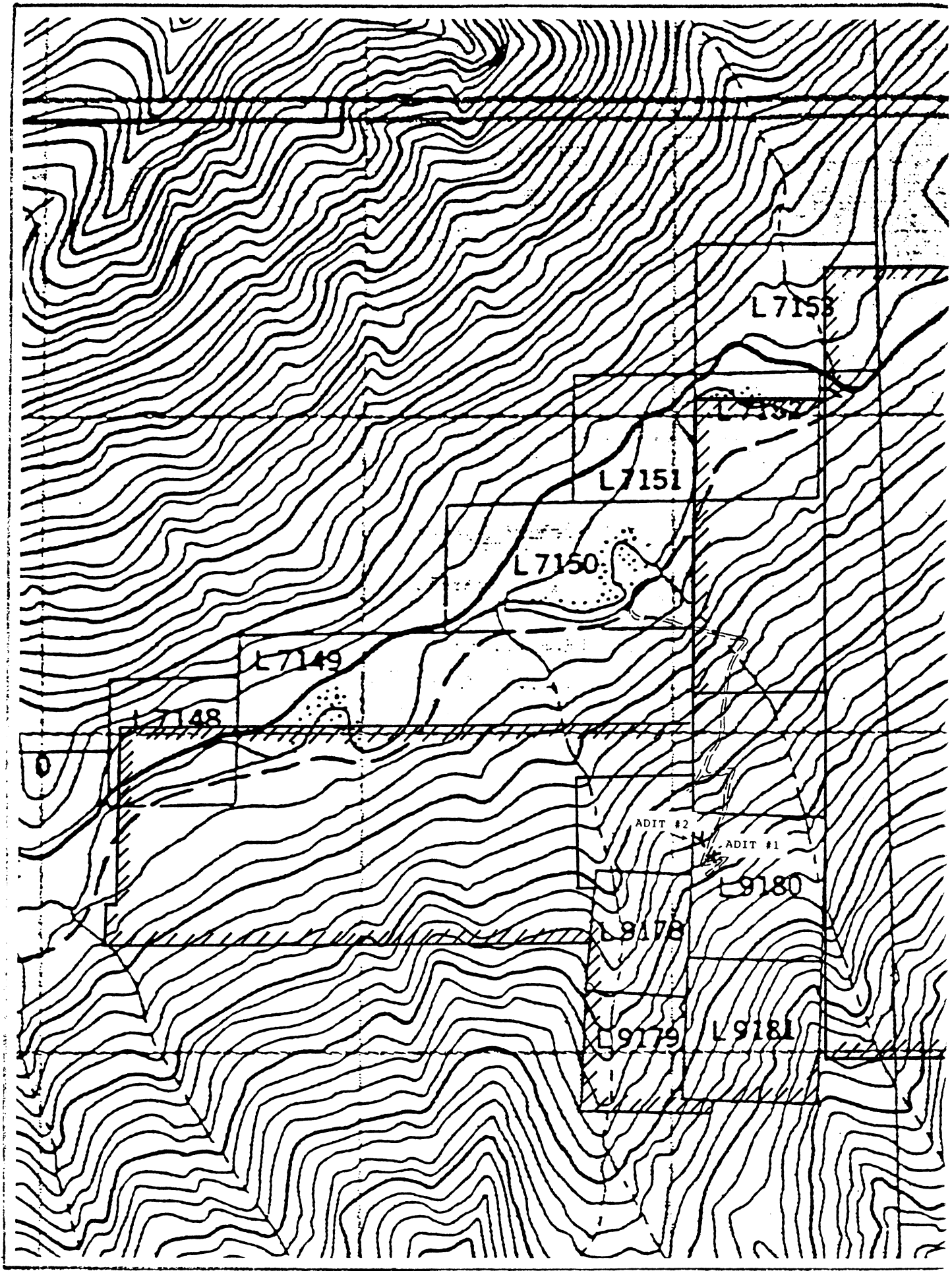


FIGURE 4.



L7158

L7153

L7151

L7150

L7149

L7148

ADIT #2

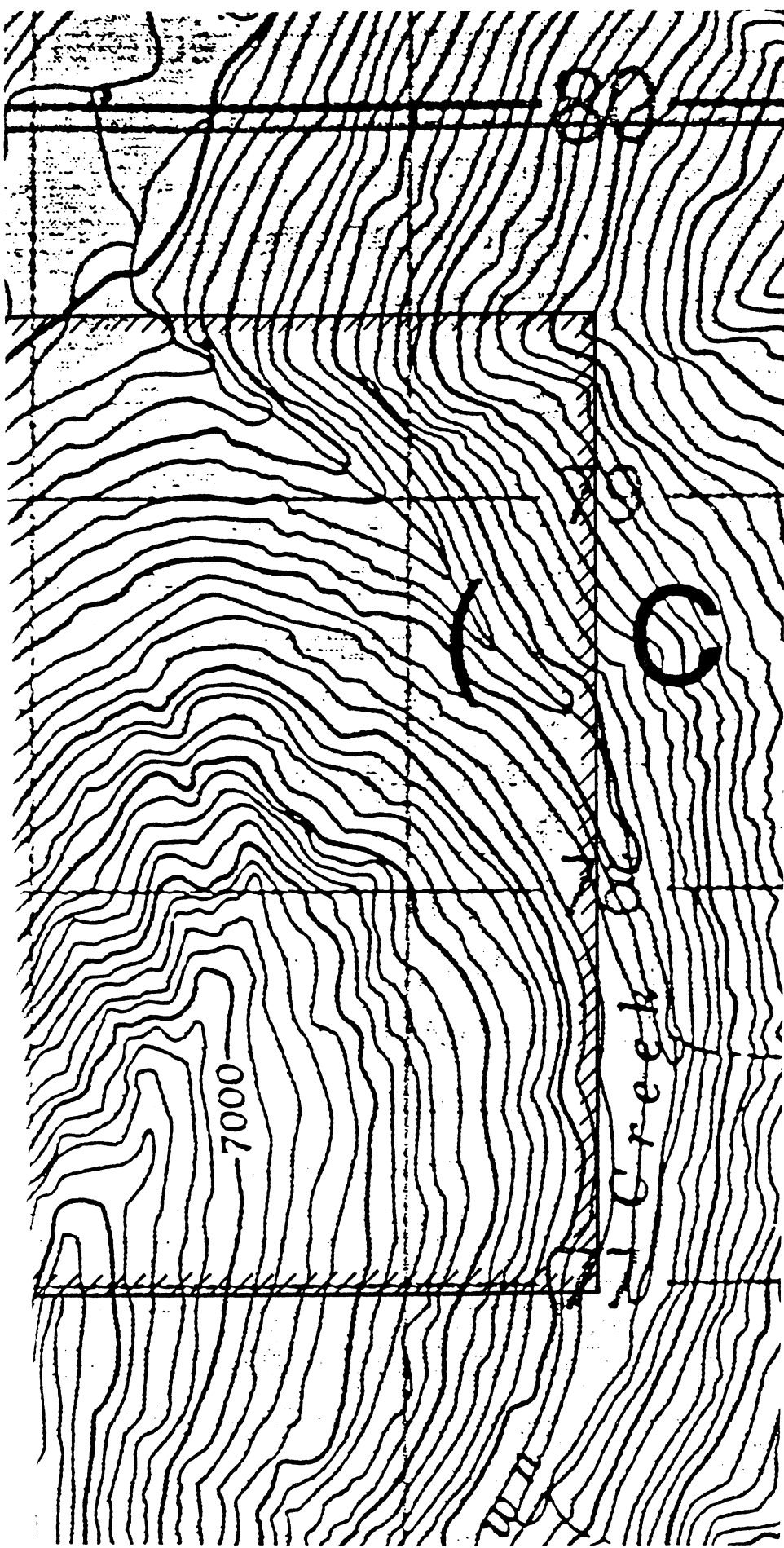
ADIT #1

L9180

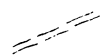
L9178

L9179

L9181



ADIT



BULLDOZER TRAIL



PROPERTY BOUNDARY
(APPROXIMATE)

RALEIGH ENERGY CORP.

LOCATION PLAN

LUCKY BOY PROPERTY
GOLDEN MINING DIVISION, B.C. NTS 82K/8W

Scale in Metres

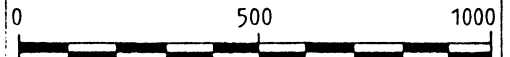


FIGURE 3.

These sample results and those of previous samplers are tabulated below (Table 2). The writer's samples were typically highly oxidized vein material in which the primary sulphide minerals had been reduced to limonite. In addition the portions of the vein sampled were in areas where it seemed to be pinching out, areas where the original persons responsible for the adit had recognized the declining tenor of mineralization and ceased drifting or stoping. Therefore, these samples are not representative of the grade that shoots along the shear could achieve. It is believed that samples such as Vohra's grabs of dump material may be more typical of the grades that can be obtained in such shoots. However, the assay results indicate that potential economic metal values occur in the vein structure on the Lucky Boy property. Further work is required to explore the structure for zones containing a sufficient quantity of material to support a mining operation.

TABLE 2 - ASSAY DATA

| Sampler Sample No. | Width (cm) | Au oz/t | Ag oz/t | Pb % | Zn % | Cu % |
|----------------------------------|---------------|------------|------------|---------|---------|---------|
| Rodgers, G.M. 37806 - adit 2 | 30 | 0.078 | 38.80 | N/A | N/A | N/A |
| 14528 - adit 2 | 30 | N/A | 9.48 | >10000* | 1205* | 9310* |
| Di Spirito, F. LB 61 - adit 2 | Grab | 0.050 | 12.40 | N/A | N/A | 29923* |
| Vohra, D.R. 56553 - dump | Grab | 0.226 | 86.95 | 2.61 | 1.41 | 8.17 |
| 56554 - dump | Grab | 0.094 | 92.73 | 0.17 | 0.63 | 5.29 |
| Keyser(Smith) N/A | 50 | 0.005 | 2.91 | 2.0 | 0.9 | 0.5 |
| Verley, C.G. 0056 - adit 1 | 10 | 120*2 | 2.09 | 1.33 | 0.15 | 0.20 |
| 0057 - adit 1 | 4 | 52*2 | 0.96 | 0.25 | 0.05 | 0.08 |
| 0058 - adit 1 | 4 | 41*2 | 0.90 | 0.11 | 0.07 | 0.15 |
| 0059 - adit 2 | 60 | 27*2 | 0.87 | 0.16 | 0.17 | 0.98 |
| 0060 - adit 2 | 10 | 105*2 | 3.70 | 0.46 | 0.28 | 1.56 |

* Values in ppm; *2 Values in ppb.

GEOCHEMISTRY & GEOPHYSICS

During programs conducted on the property in 1987, 1988, 1989 and 1990 geochemical soil and rock sampling as well as geophysical surveys were undertaken. The results of these programs are briefly summarized below. Part of Di Spirito's data which represents the most comprehensive sampling of the property to date is appended (Appendix C)

Geochemistry:

In 1987 Mr. G.M. Rodgers, F.G.A.C. conducted a sampling and mapping program on the Lucky Boy, Grey Eagle, Blackbird, Delight, and Iffy 1 and 2 claims. Rodgers collected 103 soil samples taken mainly along the old roads in the vicinity of the adits. In addition he mapped and sampled the adits. His analytical work was conducted by Chemex Laboratories Ltd. in Vancouver. In 1988, under the supervision Mr. F. Di Spirito, P.Eng. 626 soil samples were collected from 18.85 km of grid established over the vein zone. The samples were analyzed by Min-En Laboratories in Vancouver. Sampling was effective in outlining the vein, however, the high responses in soils may reflect contamination from the dumps beside adits on the structure. Mr. D.R. Vohra, Phd, P.Eng. collected 43 soil samples along the road to the old workings in 1989, in what appears to have been a very limited test of the area. Vohra's analytical work was conducted by Loring Laboratories Ltd. Work by Messrs Smith and Keyser in

1991 consisted of soil sampling and remapping of the adits. However, this data has not been compiled into a report.

Table 3 - Summary of Soil Geochemical Data

Data from Rodgers, 1987: Number of samples = 103.

| | Range | | |
|----|---------------|-------------|---------|
| Ag | 0.1 - 3.6 ppm | 2 samples > | 2.2 ppm |
| Cu | 6 - 200 ppm | 2 samples > | 45 ppm |
| Pb | 8 - 240 ppm | 2 samples > | 150 ppm |
| Zn | 24 - 610 ppm | 2 samples > | 300 ppm |

Data from Di Spirito, 1988: Number of samples = 626.

| | Range | | |
|----|---------------|--------------|---------|
| Ag | 0.1 - 5.2 ppm | 7 samples > | 2.4 ppm |
| Cu | 3 - 158 ppm | 12 samples > | 50 ppm |
| Pb | 2 - 857 ppm | 12 samples > | 100 ppm |
| Zn | 17 - 1452 ppm | 9 samples > | 300 ppm |

Data from Vohra, 1989: Number of samples = 43.

| | Range |
|----|---------------|
| Ag | 0.1 - 0.3 ppm |
| Cu | 17 - 39 ppm |
| Pb | 9 - 62 ppm |
| Zn | 41 - 165 ppm |

Geophysics:

Di Spirito's geophysical work on the Lucky Boy property consisted of a magnetometer and induced polarization survey of the grid area. The results of the magnetometer survey show a total magnetic field variation of 489 gammas. A narrow north-westerly trending high was detected across the southwestern part of the grid. This may reflect a mafic dyke intruding the succession as it does not appear to correlate with stratigraphic

changes or the vein zone. However, results of the IP survey indicate that the fault or shear zone hosting the mineralized quartz vein is well defined by a linear north-south trending zone of relatively high chargeability and high resistivity. This zone spans the width of the grid (1.5 km) and is open to the north and south. Results indicate that the IP technique is an effective prospecting tool in this environment.

CONCLUSIONS

Raleigh Energy Corp. has an option on the Lucky Boy claim group located in the Toby Creek area, Golden Mining Division, B.C. The ground is situated 34 kilometres southwest of Invermere and is accessible by road.

The property is underlain by a sequence of Precambrian sediments. A northerly trending quartz-filled shear within the sediments hosts silver-lead-copper-zinc mineralization.

Soil geochemistry has outlined an anomalous zone that is co-incident with the mineralized shear. In addition, induced polarization surveys exhibit anomalous trends associated with the vein zone, indicating that the mineralized structure is a persistent feature. Chip samples across the zone demonstrate that potentially economic metal grades occur within the structure. The environment is highly permissive for the development of relatively high-grade, small tonnage polymetallic pods, which may be sizeable enough to support a small mining operation. Therefore, an exploration program, consisting initially of diamond drill testing, is strongly recommended to further evaluate the Lucky Boy property.

REFERENCES

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APPENDIX A

ESTIMATED COST OF RECOMMENDED PROGRAM

**Estimated Cost of Recommended Exploration Program
Lucky Boy Property, Golden Mining Division, B.C.**

Stage I**Salaries:**

| | | |
|---|------------|--------------|
| Project manager, 5 days @ \$400/day . . | \$2,000.00 | |
| Geologist, 20 days @ \$375/day. | .7,500.00 | |
| Field Assistant, 15 days @ \$250/day | .3,750.00. | .\$13,250.00 |

Assay Costs

| | | |
|---|----------|-------------|
| Core - 60 samples: Au, Ag, Pb, Zn, Cu assay @ \$16.00/sample | .960.00. | . . .960.00 |
|---|----------|-------------|

Diamond Drilling:

| | | |
|-----------------------------------|------------|-------------|
| 1,500 ft BQWL @ \$20/ft | 30,000.00 | |
| Mob/demob. | .4,000.00 | |
| Moves. | .1,000.00 | |
| Core boxes & mud | .2,500.00 | |
| Bulldozer rental(D-7). | .3,000.00. | . 40,500.00 |

Field Expense:

| | | |
|---|------------|------------|
| Equipment. | .500.00 | |
| Food | .3,150.00 | |
| Freight. | .325.00 | |
| Fuel | .600.00 | |
| Lodging. | .2,250.00 | |
| Telephone. | .100.00 | |
| Travel | .300.00 | |
| Truck rental, 15 days @ \$100/day . . . | .1,500.00. | . 8,725.00 |

Contingency. 6,665.00

Subtotal. 70,100.00

GST @ 7% (Refundable). 4,900.00

Total Estimated Cost of Stage I. \$75,000.00

APPENDIX B
ASSAY AND ANALYTICAL DATA

ASSAY AND ANALYTICAL DATA

SAMPLE DESCRIPTIONS

| Sample | Description |
|--------|--|
| 0056 | Chips sample across 10 cm wide limonitic, quartz filled shear in Adit #1 at 5450' elevation. |
| 0057 | Chips sample across 4 cm wide limonitic, quartz filled shear in Adit #1 at 5450' elevation. |
| 0058 | Chips sample across 4 cm wide limonitic lense at portal of adit #1 in the quartz filled shear. |
| 0059 | Chips sample across 10 cm wide limonitic, quartz filled shear in Adit #1 at 5450' elevation. |
| 0060 | Chips sample across 10 cm wide limonitic, quartz filled shear in Adit #1 at 5450' elevation. |

A S S A Y C E R T I F I C A T E

1.000 gm sample is digested with 50 ml of aqua regia, diluted to 100 ml with water and is finished by AA.

AMERLIN EXPLORATION

Project:

Sample Type: Rocks

Analyst PSam
Report No. 9120085
Date: July 26, 1991

| SAMPLE | Cu % | Pb % | Zn % | Ag OZ/T |
|--------|---------|---------|---------|------------|
| 0056 | .20 | 1.33 | .15 | 2.09 |
| 0057 | .08 | .25 | .05 | .96 |
| 0058 | .15 | .11 | .07 | .90 |
| 0059 | .98 | .16 | .17 | .87 |
| 0060 | 1.56 | .46 | .28 | 3.70 |

PIONEER LABORATORIES INC.

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TELEPHONE (604)522-3830

G E O C H E M I C A L A N A L Y S I S C E R T I F I C A T E

AMERLIN EXPLORATION

Project:

Sample Type: Rocks

Multi-element ICP Analysis - .500 gram sample is digested with 3 ml of aqua regia, diluted to 10 ml with Water. This leach is partial for Mn, Fe, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K and Al. Detection Limit for Au is 3 ppm. Au Analysis - 10 gram sample is digested with aqua regia, MIBK extracted, graphite furnace AA finished to 1 ppb detection.

Analyst RSam

Report No. 9120085

Date: July 26, 1991

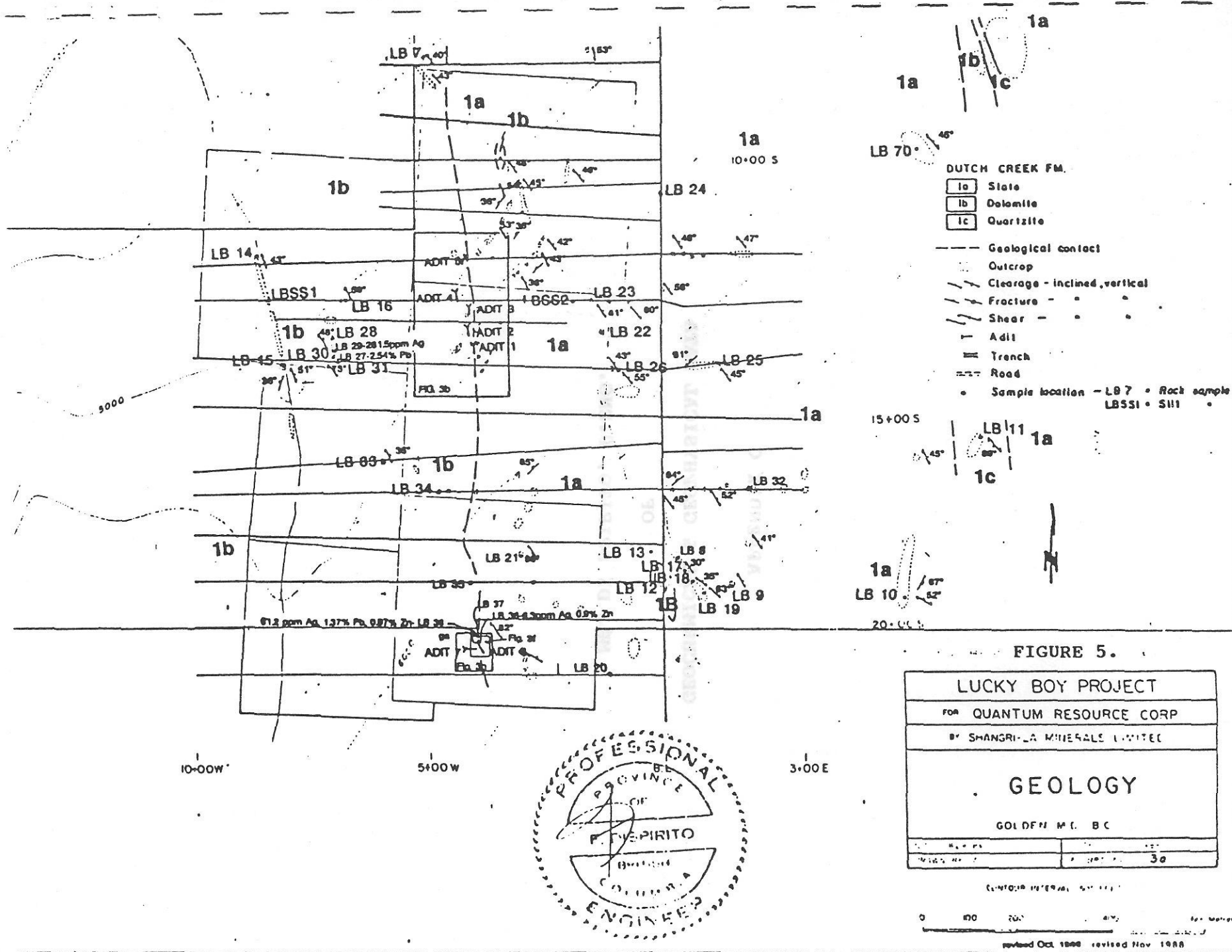
| ELEMENT SAMPLE | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au* ppb |
|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|--------|-----------|-----------|---------|-----------|---------|----------|---------|---------|--------|----------|------------|
| 0056 | 9 | 2012 | 10732 | 1050 | 58.6 | 83 | 29 | 341 | 25.89 | 267 | 14 | ND | 37 | 3 | 5.1 | 2194 | 12 | 3 | .06 | .098 | 3 | 39 | .05 | 5 | .01 | 2 | .33 | .01 | .03 | 5 | 120 |
| 0057 | 2 | 837 | 2554 | 443 | 28.7 | 35 | 17 | 216 | 10.10 | 119 | 5 | ND | 19 | 3 | 1.5 | 601 | 4 | 4 | .05 | .048 | 2 | 78 | .04 | 5 | .01 | 2 | .22 | .01 | .02 | 2 | 52 |
| 0058 | 3 | 1290 | 702 | 499 | 20.1 | 76 | 31 | 339 | 34.67 | 217 | 14 | ND | 74 | 4 | 1.6 | 617 | 24 | 10 | .12 | .430 | 3 | 19 | .08 | 17 | .01 | 2 | .45 | .01 | .03 | 3 | 41 |
| 0059 | 1 | 8354 | 1182 | 1569 | 24.9 | 15 | 7 | 650 | 6.05 | 114 | 5 | ND | 6 | 36 | 12.6 | 699 | 19 | 4 | 5.57 | .012 | 2 | 35 | 2.94 | 16 | .01 | 2 | .13 | .01 | .03 | 8 | 27 |
| 0060 | 3 | 14588 | 3899 | 2576 | 94.9 | 39 | 17 | 240 | 22.37 | 2625 | 20 | ND | 43 | 3 | 33.5 | 7424 | 27 | 6 | .21 | .035 | 4 | 34 | .08 | 21 | .01 | 6 | .44 | .01 | .05 | 11 | 105 |

APPENDIX C

GEOCHEMICAL & GEOPHYSICAL DATA

OF

MR. DI SPIRITO, P.ENG.



DUTCH CREEK FM.

| | |
|----|-----------|
| 1a | Slate |
| 1b | Dolomite |
| 1c | Quartzite |

--- Geological contact
 ○ Outcrop
 // Clearage - inclined, vertical
 - - - Fracture
 - - - Shear
 - - - Adit
 = Trench
 --- Road
 • Sample location - LB 7 • Rock sample
 LBSS1 • S111

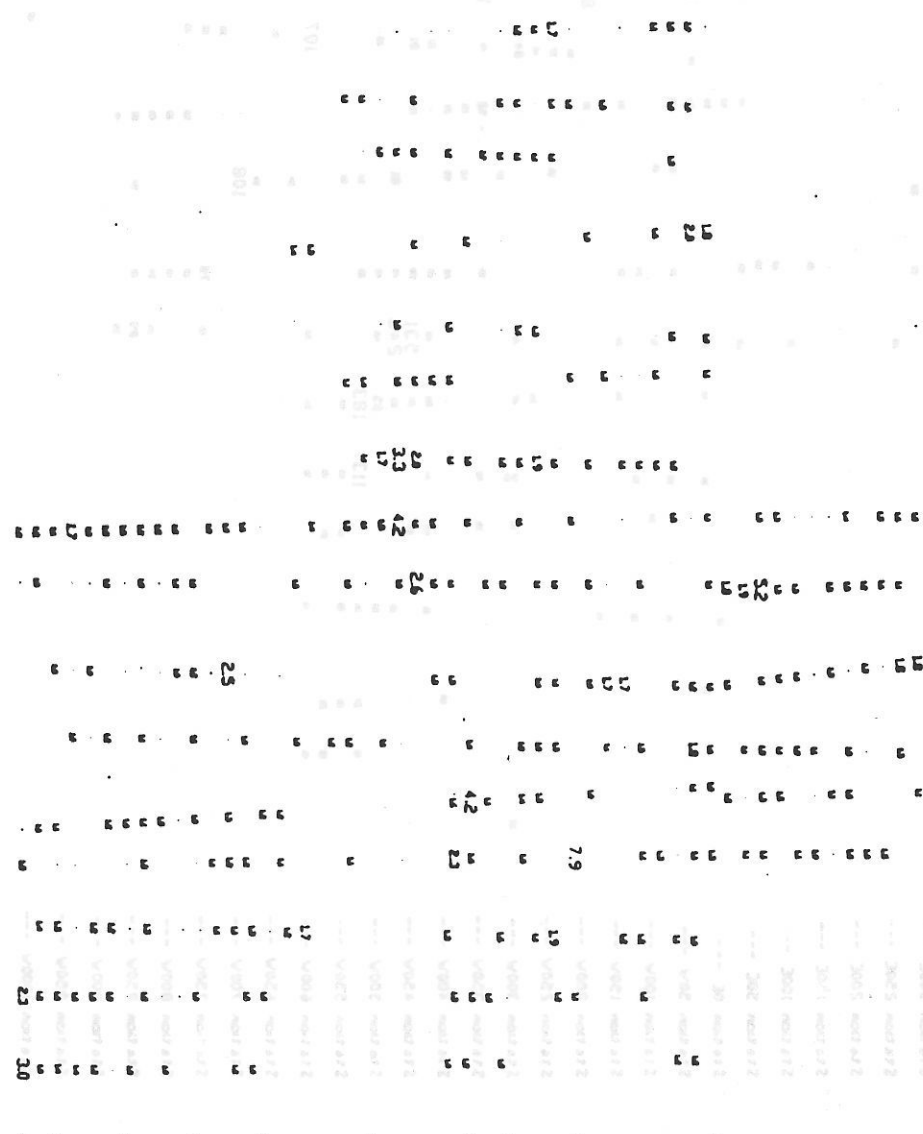
FIGURE 5.

| | |
|--------------------------------|----|
| LUCKY BOY PROJECT | |
| FOR QUANTUM RESOURCE CORP | |
| BY SHANGRI-LA MINERALS LIMITED | |
| GEOLOGY | |
| GOLDEN M.T. B.C. | |
| Scale | 30 |

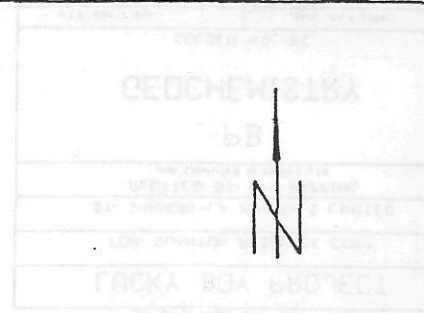


(CONTAINING INFORMATION)
 0 100 200 300 400 500 METERS
 Revised Oct. 1988 revised Nov. 1988

Station 300E ---
 Station 250E ---
 Station 200E ---
 Station 150E ---
 Station 100E ---
 Station 50E ---
 Station 0E ---
 Station 50V ---
 Station 100V ---
 Station 150V ---
 Station 200V ---
 Station 250V ---
 Station 300V ---
 Station 400V ---
 Station 450V ---
 Station 500V ---
 Station 550V ---
 Station 600V ---
 Station 650V ---
 Station 700V ---
 Station 750V ---
 Station 800V ---
 Station 850V ---
 Station 900V ---
 Station 950V ---
 Station 1000V ---



--- Line 500S
 --- Line 600S
 --- Line 700S
 --- Line 800S
 --- Line 900S
 --- Line 1000S
 --- Line 1100S
 --- Line 1200S
 --- Line 1300S
 --- Line 1400S
 --- Line 1500S
 --- Line 1600S
 --- Line 1700S
 --- Line 1800S
 --- Line 1900S
 --- Line 2000S
 --- Line 2100S



LEGEND

BACKGROUND (DOTS) BELOW 1.7 PPM AG
 ELEVATED BETWEEN 1.7 AND 2.3 PPM AG
 ANOMALOUS BETWEEN 2.3 AND 3.0 PPM AG
 HIGHLY ANOMALOUS ABOVE 3.0 PPM AG

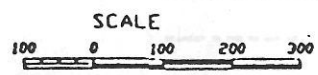


FIGURE 6.

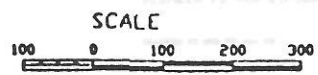
TO ACCOMPANY REPORT BY:
F. DI SPIRITO, B.A. SC., P. ENG.

| | |
|--|------------------------|
| LUCKY BOY PROJECT | |
| FOR QUANTUM RESOURCE CORP. | |
| BY SHANGRI-LA MINERALS LIMITED PLOTTED BY RPM MAPPING AND COMPUTER SERVICES LTD. | |
| AG | |
| GEOCHEMISTRY | |
| G.M. DEW, M.D., B.C. | |
| DRAWN BY: [illegible] | PLOT DATE: [illegible] |



LEGEND

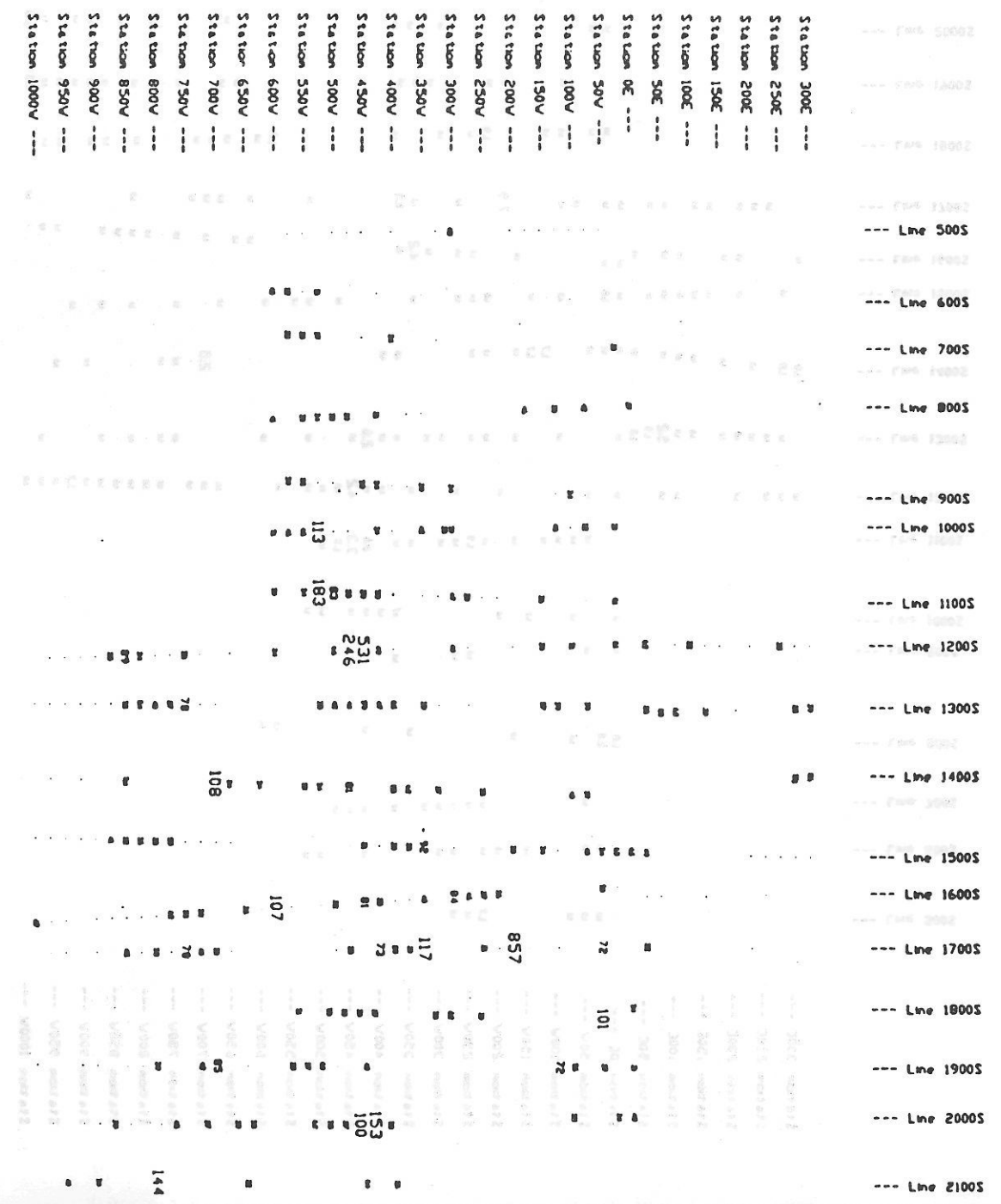
- BACKGROUND (DOTS) BELOW 70 PPM PB
- ELEVATED BETWEEN 70 AND 99 PPM PB
- ANOMALOUS BETWEEN 70 AND 99 PPM PB
- HIGHLY ANOMALOUS ABOVE 99 PPM PB



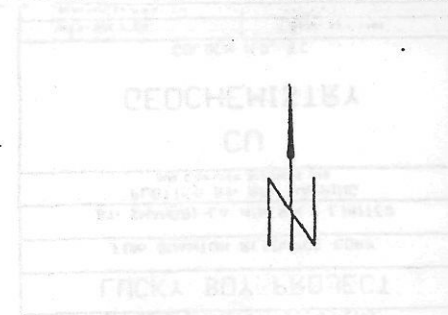
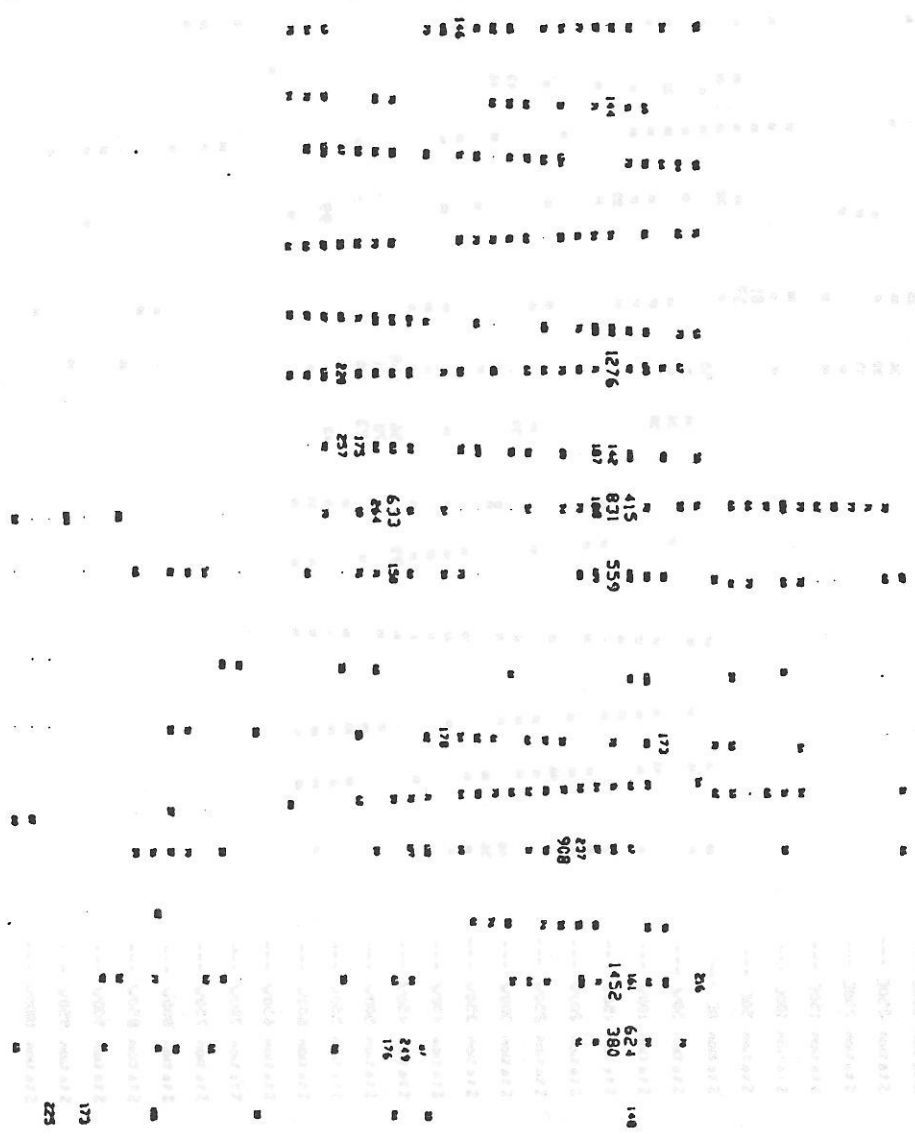
SCALE
METERS
FIGURE 7.

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

| | |
|--|----------------|
| LUCKY BOY PROJECT | |
| FOR QUANTUM RESOURCE CORP. | |
| BY SHANGRI-LA MINERALS LIMITED | |
| PLOTTED BY RPM MAPPING AND COMPUTER SERVICES LTD. | |
| PB GEOCHEMISTRY | |
| GOLDEN H.D. BC. | |
| DRAWN BY | DATE: JAN 1990 |
| PLOTTED BY RPM | FIGURE NO. |



Station 300E ---
 Station 250E ---
 Station 200E ---
 Station 150E ---
 Station 100E ---
 Station 50E ---
 Station 0E ---
 Station 50W ---
 Station 100W ---
 Station 150W ---
 Station 200W ---
 Station 250W ---
 Station 300W ---
 Station 350W ---
 Station 400W ---
 Station 450W ---
 Station 500W ---
 Station 550W ---
 Station 600W ---
 Station 650W ---
 Station 700W ---
 Station 750W ---
 Station 800W ---
 Station 850W ---
 Station 900W ---
 Station 950W ---
 Station 1000W ---



LEGEND

BACKGROUND (DOTS) BELOW 140 PPM ZN
 ELEVATED BETWEEN 140 AND 376 PPM ZN
 ANOMALOUS BETWEEN 140 AND 376 PPM ZN
 HIGHLY ANOMALOUS ABOVE 376 PPM ZN

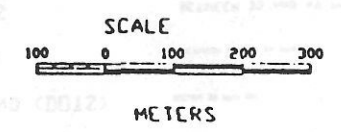
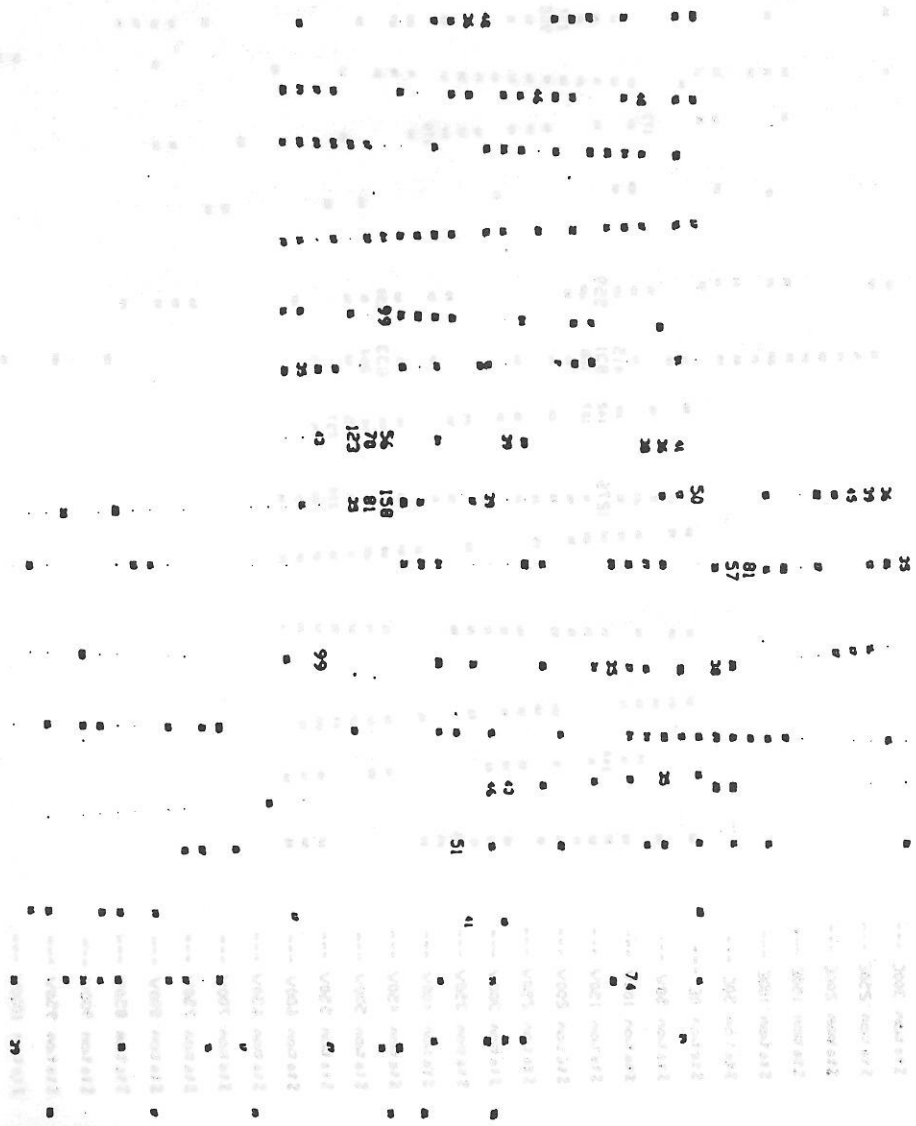


FIGURE 8.

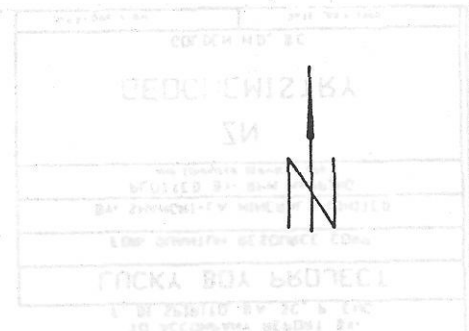
TO ACCOMPANY REPORT BY
F. DI SPIRITO, B.A. SC., P. ENG.

| | |
|--|----------------|
| LUCKY BOY PROJECT | |
| FOR QUANTUM RESOURCE CORP. | |
| BY SHANGHI-LA MINERALS LIMITED | |
| PLOTTED BY RPM MAPPING AND COMPUTER SERVICES LTD. | |
| ZN GEOCHEMISTRY | |
| GOLDEN M.D., BC | |
| DATE: JUN / 89 | DATE: MAY 1990 |

Station 300E ---
 Station 250E ---
 Station 200E ---
 Station 150E ---
 Station 100E ---
 Station 50E ---
 Station 0E ---
 Station 50V ---
 Station 100V ---
 Station 150V ---
 Station 200V ---
 Station 250V ---
 Station 300V ---
 Station 350V ---
 Station 400V ---
 Station 450V ---
 Station 500V ---
 Station 550V ---
 Station 600V ---
 Station 650V ---
 Station 700V ---
 Station 750V ---
 Station 800V ---
 Station 850V ---
 Station 900V ---
 Station 950V ---
 Station 1000V ---



--- Line 500S
 --- Line 600S
 --- Line 700S
 --- Line 800S
 --- Line 900S
 --- Line 1000S
 --- Line 1100S
 --- Line 1200S
 --- Line 1300S
 --- Line 1400S
 --- Line 1500S
 --- Line 1600S
 --- Line 1700S
 --- Line 1800S
 --- Line 1900S
 --- Line 2000S
 --- Line 2100S



LEGEND

BACKGROUND (DOTS) NEARLY 0%
 ELEVATED BETWEEN 25 AND 49 PPM CU
 ANOMALOUS BETWEEN 25 AND 49 PPM CU
 HIGHLY ANOMALOUS ABOVE 49 PPM CU

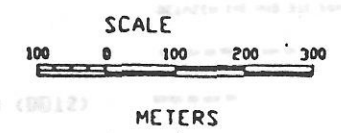


FIGURE 9.

TO ACCOMPANY REPORT BY:
F. DI SPIRITO, P.A. SC., P. ENG.

LUCKY BOY PROJECT

FOR: QUANTUM RESOURCE CORP.

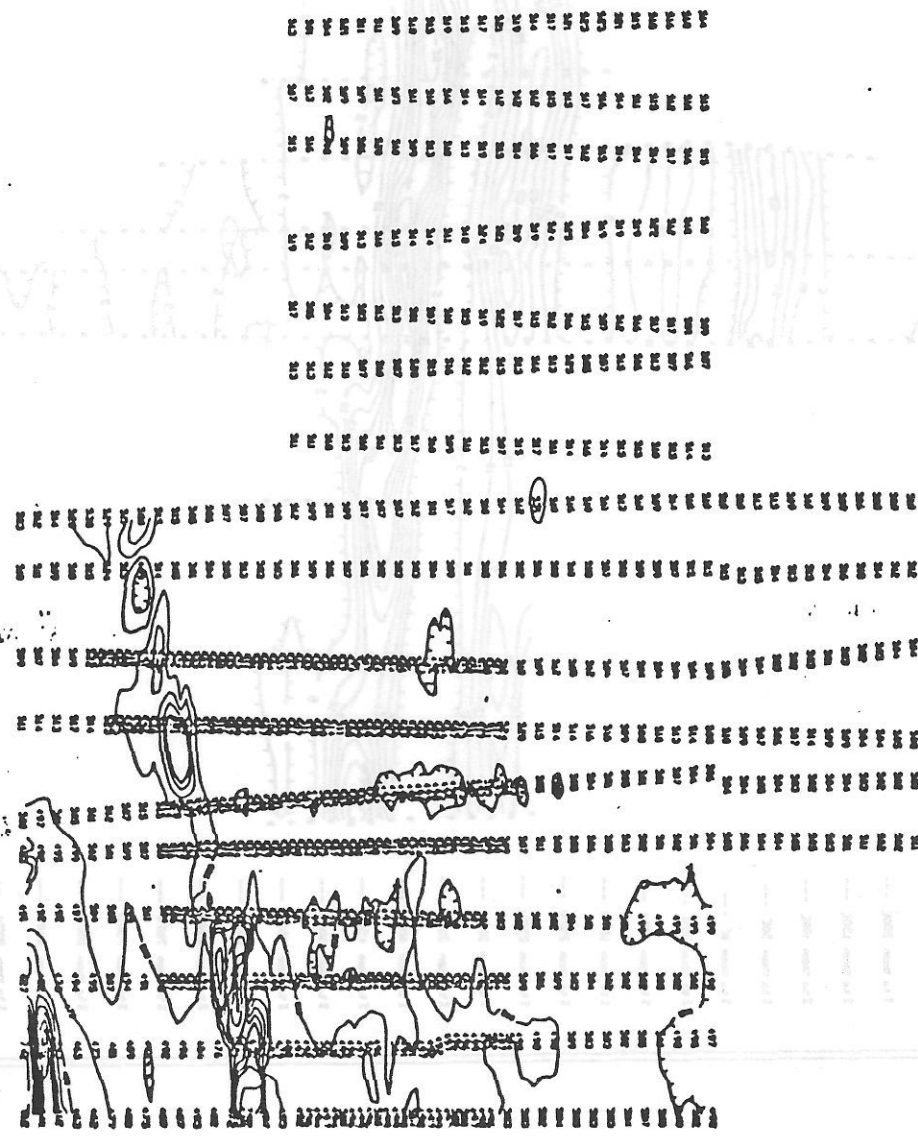
BY: SHANGRI-LA MINERALS LIMITED
 PLOTTED BY: RPM MAPPING
 AND COMPUTER SERVICES LTD.

**CU
 GEOCHEMISTRY**

GOLDEN H.D., B.C.

11/15/04 / BV
 DATE: AUG 7 1999
 PRINTED BY: S...

Station 200E ---
 Station 230E ---
 Station 200E ---
 Station 130E ---
 Station 100E ---
 Station 50E ---
 Station 0E ---
 Station 50V ---
 Station 100V ---
 Station 150V ---
 Station 200V ---
 Station 250V ---
 Station 300V ---
 Station 350V ---
 Station 400V ---
 Station 450V ---
 Station 500V ---
 Station 550V ---
 Station 600V ---
 Station 650V ---
 Station 700V ---
 Station 750V ---
 Station 800V ---
 Station 850V ---
 Station 900V ---
 Station 950V ---
 Station 1000V ---



--- Line 500S
 --- Line 600S
 --- Line 700S
 --- Line 800S
 --- Line 900S
 --- Line 1000S
 --- Line 1100S
 --- Line 1200S
 --- Line 1300S
 --- Line 1400S
 --- Line 1500S
 --- Line 1600S
 --- Line 1700S
 --- Line 1800S
 --- Line 1900S
 --- Line 2000S
 --- Line 2100S

FIGURE 10
 BASE MAG 57,500 GAMMAS
 CONTOUR INTERVAL:
 BELOW 600 GAMMAS: 25 GAMMAS
 ABOVE 600 GAMMAS: 100 GAMMAS

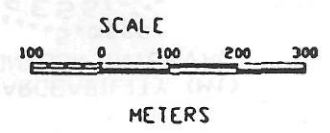
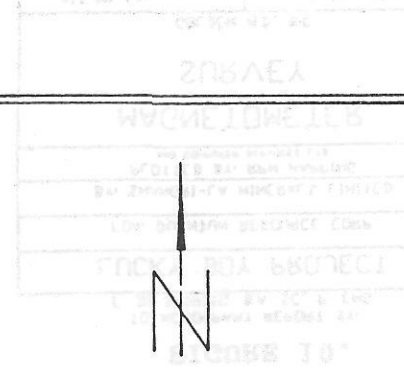
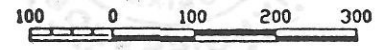
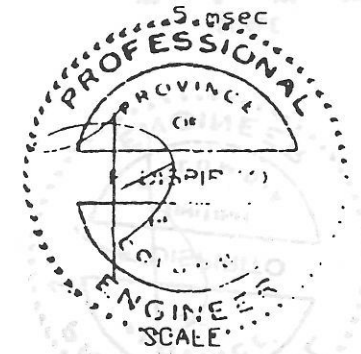


FIGURE 10.
 TO ACCOMPANY REPORT BY:
 F. DI SPIRITO, B.A. SC., P. ENG.
LUCKY BOY PROJECT
 FOR QUANTUM RESOURCE CORP.
 BY SHANGRI-LA MINERALS LIMITED
 PLOTTED BY: RPM MAPPING
 AND COMPUTER SERVICES LTD.
**MAGNETOMETER
 SURVEY**
 GOLDEN H.D., B.C.



CHARGEABILITY (Mt)
CONTOUR INTERVAL

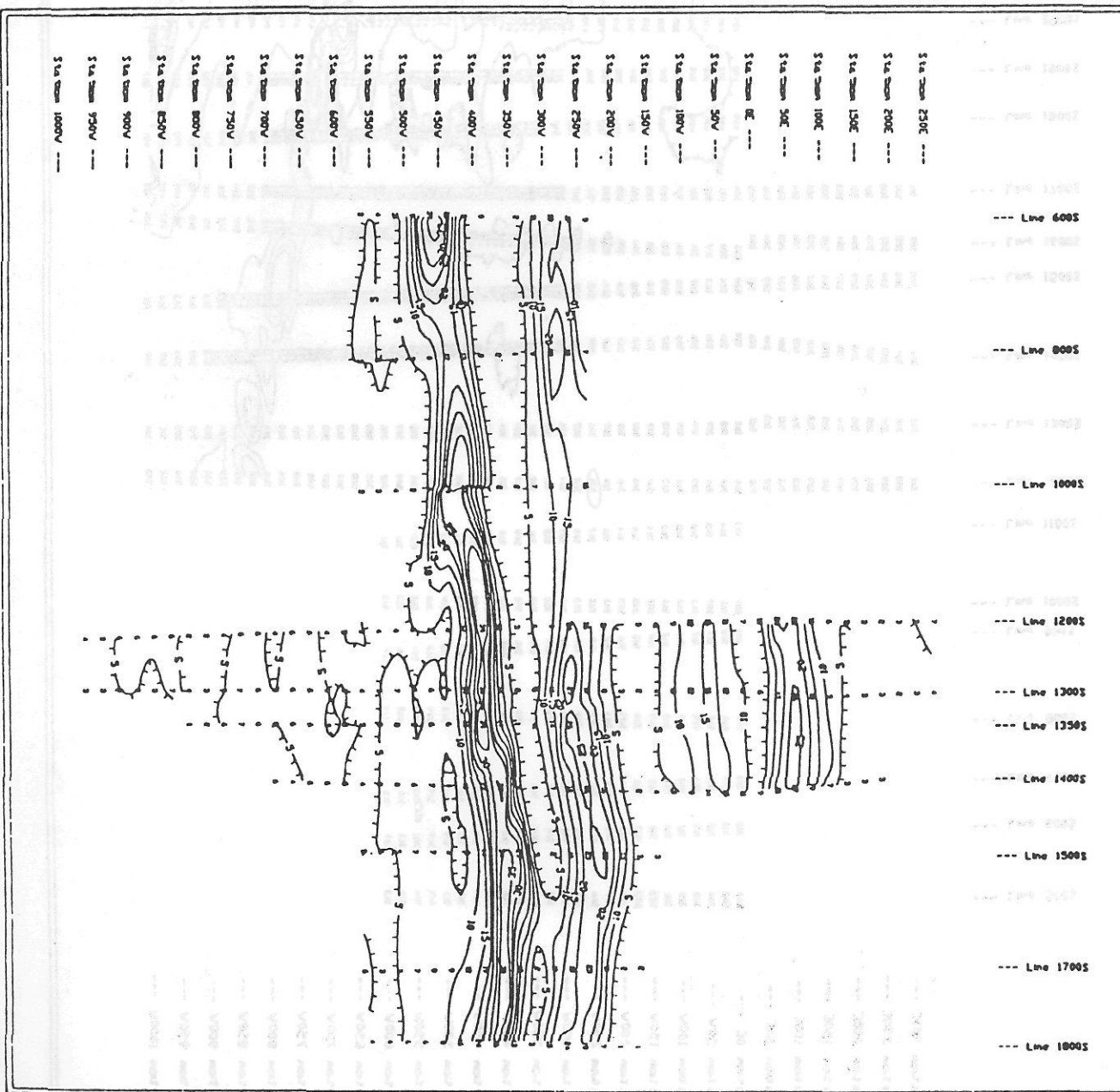


METERS

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

| | |
|---|-----------------|
| LUCKY BOY PROJECT | |
| FOR: QUANTUM RESOURCE CORP. | |
| BY: SHANGRI-LA MINERALS LIMITED | |
| PLOTTED BY: RPM MAPPING AND COMPUTER SERVICES LTD | |
| IP SURVEY (N=1) PLAN MAP OF CHARGEABILITY (Mt) DIPOLE - DIPOLE ARRAY DIPOLE WIDTH = 25m GOLDEN M.D., B.C. | |
| M.T.S./ 02K / 0V | DATE: JULY 1998 |
| PLOTTED BY: RPM | |

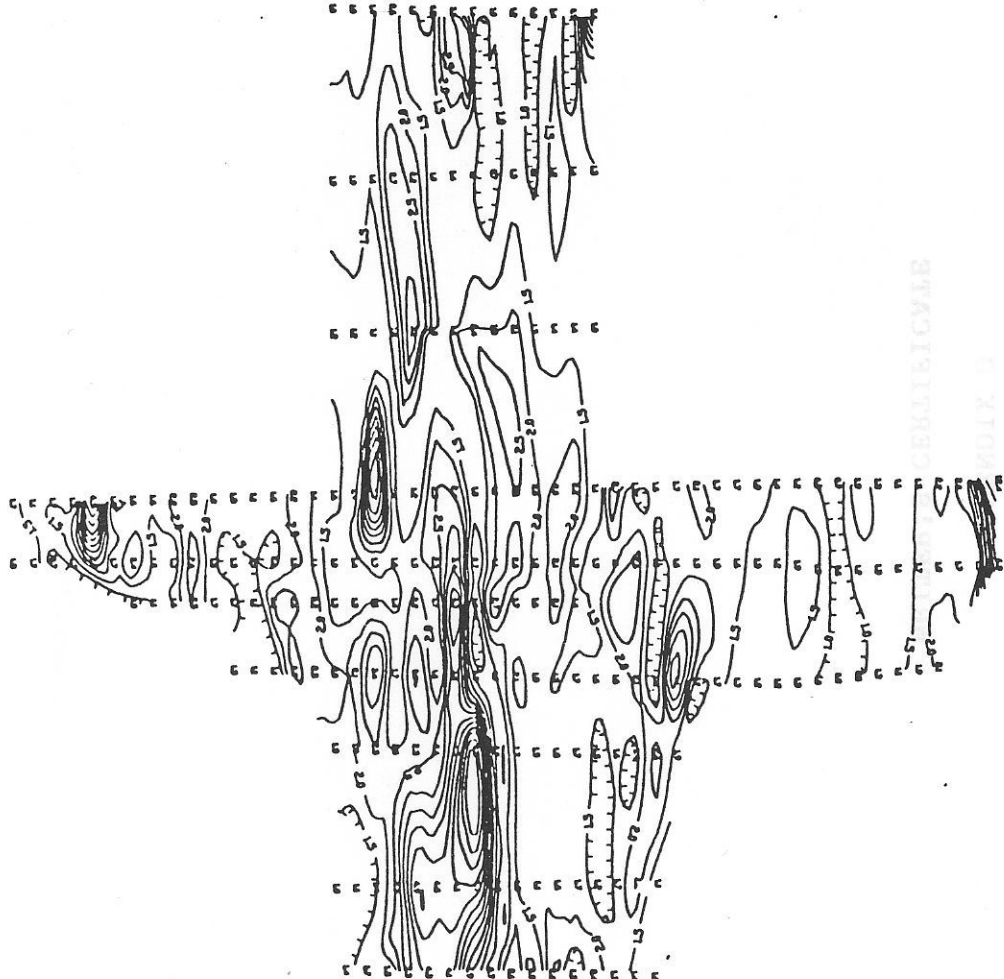
FIGURE 11.



- \$ Sta. Name 230E ---
- \$ Sta. Name 200E ---
- \$ Sta. Name 150E ---
- \$ Sta. Name 100E ---
- \$ Sta. Name 50E ---
- \$ Sta. Name 0E ---
- \$ Sta. Name 50V ---
- \$ Sta. Name 100V ---
- \$ Sta. Name 150V ---
- \$ Sta. Name 200V ---
- \$ Sta. Name 250V ---
- \$ Sta. Name 300V ---
- \$ Sta. Name 350V ---
- \$ Sta. Name 400V ---
- \$ Sta. Name 450V ---
- \$ Sta. Name 500V ---
- \$ Sta. Name 550V ---
- \$ Sta. Name 600V ---
- \$ Sta. Name 650V ---
- \$ Sta. Name 700V ---
- \$ Sta. Name 750V ---
- \$ Sta. Name 800V ---
- \$ Sta. Name 850V ---
- \$ Sta. Name 900V ---
- \$ Sta. Name 950V ---
- \$ Sta. Name 1000V ---

- Line 6005
- Line 8005
- Line 10005
- Line 12005
- Line 13005
- Line 13505
- Line 14005
- Line 15005
- Line 17005
- Line 18005

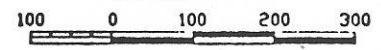
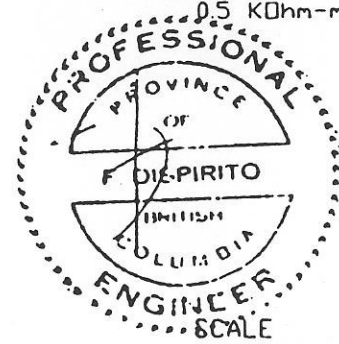
--- \$14,200m 250V
 --- \$14,200m 200V
 --- \$14,200m 150V
 --- \$14,200m 100V
 --- \$14,200m 50V
 --- \$14,200m DC
 --- \$14,200m 50V
 --- \$14,200m 100V
 --- \$14,200m 150V
 --- \$14,200m 200V
 --- \$14,200m 250V
 --- \$14,200m 300V
 --- \$14,200m 350V
 --- \$14,200m 400V
 --- \$14,200m 450V
 --- \$14,200m 500V
 --- \$14,200m 550V
 --- \$14,200m 600V
 --- \$14,200m 650V
 --- \$14,200m 700V
 --- \$14,200m 750V
 --- \$14,200m 800V
 --- \$14,200m 850V
 --- \$14,200m 900V
 --- \$14,200m 950V
 --- \$14,200m 1000V



--- Line 600S
 --- Line 800S
 --- Line 1000S
 --- Line 1200S
 --- Line 1300S
 --- Line 1350S
 --- Line 1400S
 --- Line 1500S
 --- Line 1700S
 --- Line 1800S



APPARENT RESISTIVITY (RHO)
 CONTOUR INTERVAL
 0.5 KOhm-m



METERS

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

| | |
|--|-----------------|
| LUCKY BOY PROJECT | |
| FOR: QUANTUM RESOURCE CORP. | |
| BY: SHANGRI-LA MINERALS LIMITED PLOTTED BY: RPM MAPPING AND COMPUTER SERVICES LTD | |
| IP SURVEY (N=1) PLAN MAP OF APPARENT RESISTIVITY (RHO) DIPOLE - DIPOLE ARRAY DIPOLE WIDTH = 25m GOLDEN M.D., B.C. | |
| NTS: 02K / 0V | DATE: JULY 1988 |
| PLOTTED BY RPM | |

FIGURE 12.

AMERLIN EXPLORATION SERVICES LTD.

812 - 525 Seymour Street, Vancouver, B.C. V6B 3H7 (604) 689-1868 Bus.

WRITER'S CERTIFICATE

I, Carl G. Verley of Vancouver, British Columbia
hereby certify that:

1. I am a geologist residing at 8191 Osler Street,
Vancouver B.C.
2. I am a graduate of the University of British Columbia,
B.Sc. in 1974, and have practised my profession since
that time.
3. I am a Fellow of the Geological Association of Canada.
4. I have no direct or indirect interest, nor do I expect
to receive any interest directly or indirectly in the
property or securities of Raleigh Energy Corp.
5. I am the author of this report which is based on work
that I conducted on the Lucky Boy property during the
period July 17 to 19, 1991.

Amerlin Exploration Services Ltd.



Carl G. Verley, F.G.A.C.

July 26, 1991.
Vancouver, B.C.

AMERLIN EXPLORATION SERVICES LTD.

1155 W. 64th Avenue, Vancouver, B.C. V6P 2M5 (604) 263-8812

January 25, 1993.

The Directors
Subloo International Resource Corp.
C/O Sikula Werbes
708 - 1111 West Hastings St.
Vancouver, B.C. V6E 2J3

Dear Sirs:

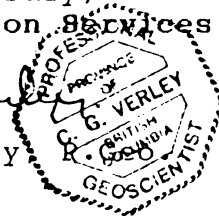
Re: Geological Report on the Lucky Boy Property
(the "Property") dated July 1991.

No additional work has been conducted on the Property since July 1991.

I have reviewed my report and recommendations on the Property and find that the recommended program and budget are still valid for the Property.

Yours truly,
Amerlin Exploration Services Ltd.

Carl G. Verley
Carl G. Verley



CERTIFICATE OF THE ISSUER

The foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Statement of Material Facts as required by the Securities Act and its regulations.

ON BEHALF OF THE BOARD OF DIRECTORS

(Signed) **GORDON SUBLOO**
Chief Executive Officer

(Signed) **LEONARD ERNEST MORGAN**
Secretary

(Signed) **ALBERT BADHAM**
Director

(Signed) **GORDON HUNTER**
Director

PROMOTER

(Signed) **GORDON SUBLOO**

DATED at Vancouver, British Columbia, effective February 26, 1993.

CERTIFICATE OF THE AGENT

To the best of our knowledge, information and belief, the foregoing constitutes full, true and plain disclosure of all material facts relating to the securities offered by this Statement of Material Facts as required by the Securities Act and its regulations.

YORKTON SECURITIES INC.

Per: (Signed) **JOHN McCOACH**

DATED at Vancouver, British Columbia, effective February 26, 1993.