

85-1201-14412

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,412

11/86

**GEOLOGICAL AND GEOCHEMICAL
EVALUATION REPORT**

of the
METSANTAN 1-9 Claims
N.T.S. 94-E-6 W
Latitude 57°25' North
Longitude 127°~~16~~ West
Omineca Mining Division
British Columbia

FILMED

25 October 1985

Owner: *Lacana Mining Corporation*
Canadian Minerals Joint Venture

for

Operator: **BART RESOURCES LTD.**
Vancouver, B.C.

by

R. K. Netolitzky, M.Sc., P.Geol.

Taiga Consultants Ltd.
#100, 1300 - 8th Street S.W.
Calgary, Alberta T2R 1B2

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| | 6 | "A","B" Grids, Gold in soils and talus fines |
| | 7 | "A","B" Grids, Silver in soils and talus fines |

SUMMARY

A field program was completed on the Metsantan property during August 1985, with the objectives of confirming the grade of gold mineralization present on the Ridge Zone, ascertaining if the Lacana drilling missed the mineralized zone due to possible incorrect drill direction, and developing new exploration targets.

Selected trenches from the Lacana program were cleaned and resampled. The results confirmed those obtained by Lacana. The structural trend which hosts the Ridge Zone was traced for at least 600 metres on strike. No direct structural evidence was obtained to indicate the initial drill direction was improperly oriented.

Backhoe trenching was conducted along the structural trend exposing well developed vein systems. Assay results of the new backhoe trenches indicated elevated precious metals values; however, no intervals of potential economic significance were obtained.

At least three vein systems were identified which trend onto the property from the south end of the adjoining Mets property. Backhoe trenching investigated one of the systems with a narrow subsidiary vein returning high-grade values from Trench 85-2.

Soil sampling programs defined new target areas which warrant further detailed investigation. The geological coverage resulted in the identification of two new structures which returned high-grade values from grab samples.

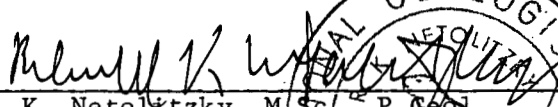
CERTIFICATE

I, Ronald Kort Netolitzky, of 74 Wildwood Drive S.W. in the City of Calgary in the Province of Alberta, do hereby certify that:


1. I am a consulting geologist with the firm of Taiga Consultants Ltd. with offices at Suite 100, 1300 - 8th Street S.W., Calgary, Alberta.
2. I am a graduate of the University of Alberta, B.Sc. Geology (1964), and of the University of Calgary, M.Sc. Geology (1967).
3. I have practised my profession continuously since 1967.
4. I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.
5. I personally directed the exploration work carried out on the Metsantan claims and described herein, during August 1985.
6. I did not receive and do not expect to receive any interest, direct or indirect, in the properties described herein nor in the securities of either Bart Resources Ltd. or Lacana Mining Corporation, in respect of services rendered in the preparation of this report.

DATED at Calgary, Alberta, this 25th day of October, A.D. 1985.

Respectfully submitted,


R. K. Netolitzky, M.Sc., P. Geol.



| |
|---|
| PERMIT TO PRACTICE TAIGA CONSULTANTS LTD. |
| Signature  |
| Date <u>Mar. 24, 1986</u> |
| PERMIT NUMBER: P 2399 |
| The Association of Professional Engineers, Geologists and Geophysicists of Alberta |

INTRODUCTION

Location and Access

The Metsantan 1-9 mineral claims form a contiguous block located on N.T.S. map-sheet 94-E-6 W (Figure 1). The approximate geographic coordinates for the claims are 57°25' North latitude and 127°20' West longitude.

The property covers the south and west parts of Metsantan Ridge; and is situated approximately 300 km north of Smithers which is used as the normal supply centre.

Access to the property is by fixed-wing aircraft to the Sturdee airstrip and then by helicopter 25 km north to the property. A British Columbia government order-in-council indicates future road access to the Lawyers property to be an excellent possibility. The Lawyers property is located 12 km south of the Metsantan prospect.

Property and Ownership

The Metsantan 1-9 claims (Figure 2) are currently held in two groups: the east group contains Metsantan 1, 3, 5, 6, and 9; the west group comprises Metsantan 2, 4, 7, and 8. The property is situated in the Omineca and the Liard Mining Divisions.

| <u>Claim Name</u> | <u>Units</u> | <u>Record Number</u> |
|-------------------|--------------|----------------------|
| Metsantan 1 | 20 | 2623(3) |
| Metsantan 2 | 20 | 2624(3) |
| Metsantan 3 | 4 | 2961(8) |
| Metsantan 4 | 6 | 2960(8) |
| Metsantan 5 | 4 | 3228(9) |
| Metsantan 6 | 18 | 3663(3) |
| Metsantan 7 | 15 | 1815(3) |
| Metsantan 8 | 15 | 1816(3) |
| Metsantan 9 | 18 | 4224(9) |
| | <u>120</u> | |

Metsantan 1 and 2 claims partially overtake the Mets 2 claim, which reduces the size of the Metsantan 1 and 2 by approximately 8 units. The location of the legal corner posts for the Metsantan 1, 2, 3, and 4 claims and the Mets 2 claim have been established with a legal survey by Lacana. The common boundary for the Mets 2 and the Metsantan 1 and 2 claims has not been marked on the ground.

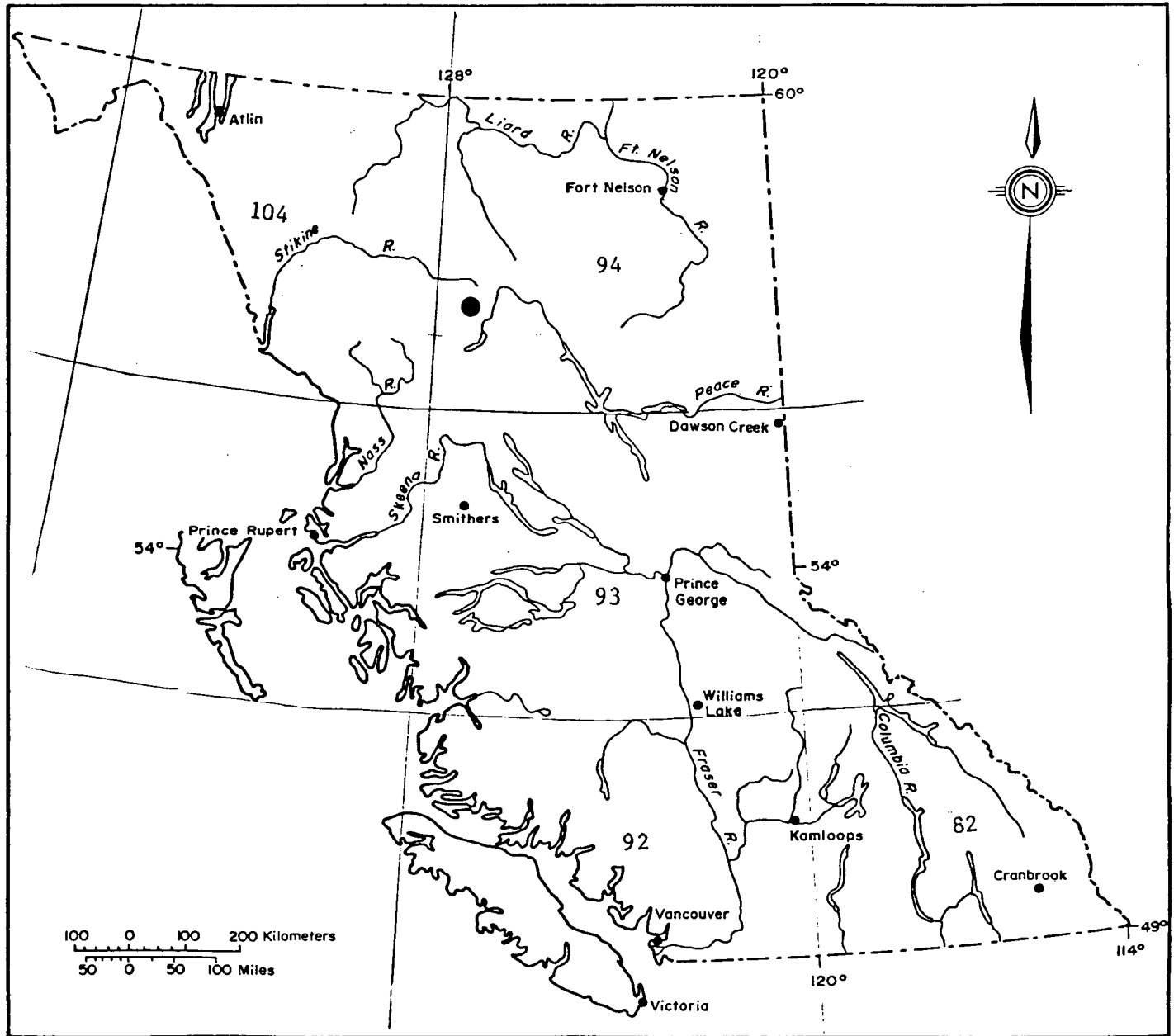


FIGURE 1
GENERAL LOCATION MAP

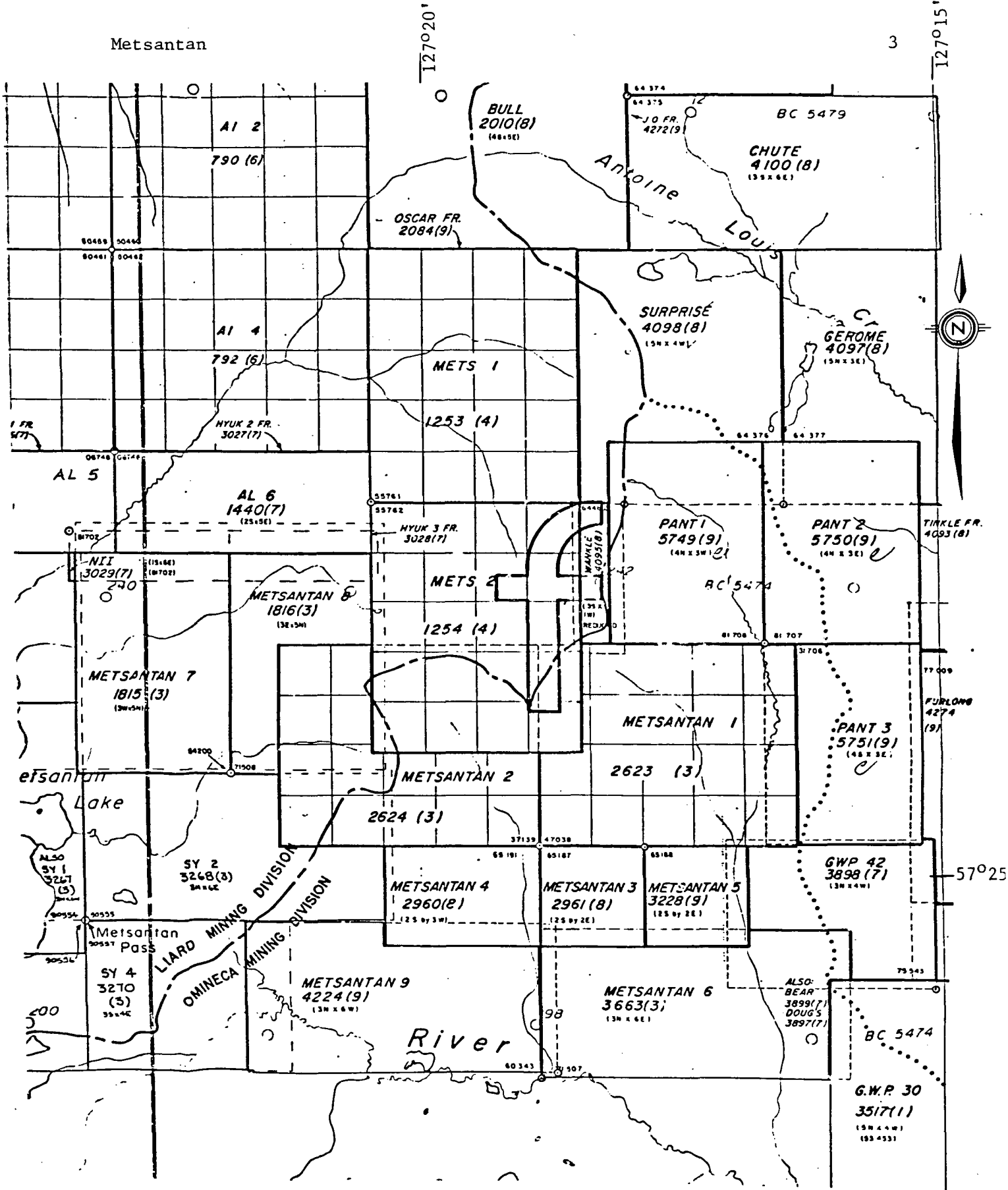


FIGURE 2
CLAIMS LOCATION



The north boundary of the Metsantan 7 and 8 claims has not been surveyed on the ground and some uncertainty exists on the precise location of the south boundary of the AL 5, AL 6, and NII claims.

The Metsantan claims are owned by the Canadian Minerals Joint Venture, operated by Lacana Mining Corporation. The property is under option to Bart Resources Ltd., on behalf of which the current exploration program has been conducted.

Physiography and Glaciation

The claims lie within the Cassiar Mountains physiographic subdivision of the Interior Plateau. The region is entirely glaciated and is characterized by wide U-shaped drift-filled major valleys and deeply-cut V-shaped upland valleys. Mountain peaks in the area average 1980 metres ASL rising fairly abruptly from the major valleys. The topography of areas underlain by Toodoggone volcanic rocks is usually considerably more subdued than areas underlain by Takla Group volcanic rocks.

The northern part of the Metsantan property is located over the south portion of Metsantan Ridge and the main peak of Metsantan Mountain. Deeply incised streams dissect Metsantan Mountain, giving rise to local relief of 600 metres on the property.

Previous Exploration

The property was initially staked in 1980 and subsequently explored by Lacana Mining Corporation on behalf of the Canadian Minerals Joint Venture. The early location of precious metals-bearing epithermal vein systems on Metsantan Ridge led to exploration being concentrated on this sector of the property. The reader is referred to the Lacana reports for a detailed description of previous exploration.

Selected trenches from the Lacana program were re-sampled and re-mapped. The main mineralized zones were drill-tested by Lacana in five drill holes (660 metres) with negative results.

REGIONAL GEOLOGY

The discovery of the Chappelle vein system (Baker Mine) led to the gradual recognition of a new, potentially major epithermal camp.

The property covers intermediate to felsic volcanic rocks of the Lower Jurassic Toodoggone Volcanics. The regional extent of the Toodoggone Volcanics has been outlined by mapping initially presented in the Geological Survey of Canada Open File 483 (1977) by H. Gabrielse. Potassium/argon age dating has confirmed the Lower to Middle Jurassic age for these units.

The results of B.C. government mapping from 1971 to 1984 and Open File 483 have been recently released (August 1985) as Preliminary Map 61 by the geological branch of the British Columbia Ministry of Energy, Mines and Petroleum Resources. The stratigraphic column for the Toodoggone Volcanics is presented as Figure 3. The compilation mapping relevant to the property is presented as Figure 4.

Three subdivisions of the Toodoggone Volcanics are present on the property, which are, from youngest to oldest:

Toodoggone Crystal Ash Tuffs and Flows

- 7 Recessive, grey, mauve, purple quartzose plagioclase crystal tuff, lapilli tuff, and breccia, with lesser agglomerate, lahar, and epiclastic beds; includes some welded tuffs and pyroxene hornblende feldspar porphyry flows which are locally dominant; some members contain no quartz; pink weathering where laumontite is abundant.
- 7A Epiclastic red beds — arkosic sandstone, siltstone, conglomerate, and slide debris; contains some crystal tuff.

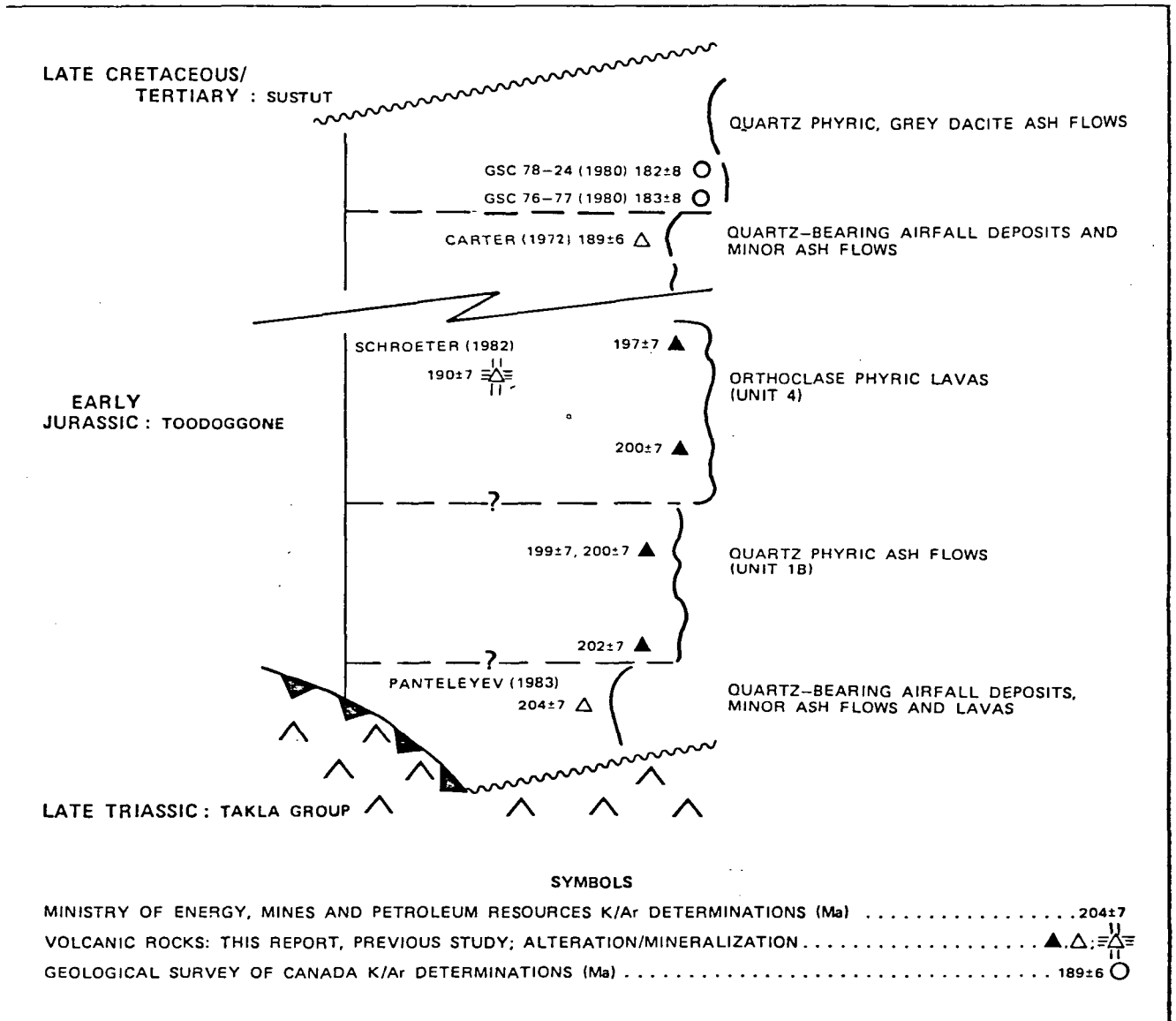
Tuff Peak Formation

- 6 Pale purple, grey, green biotite augite hornblende plagioclase porphyry flows; some autobrecciated flows, minor sills and plugs; some crystal and lapilli tuff.
- 6A Conglomerate or lahar derived from Units 6 and 6B, with graded and crosslaminated mudstone and sandstone interbeds; debris flows, lapilli and crystal tuffs.
- 6B Flows similar to Unit 6 but containing sparse orthoclase metacrysts.

Lawyers-Metsantan Quartzose Andesite

- 3 Green to grey quartzose pyroxene(?) biotite hornblende plagioclase porphyry flows and tuffs; quartz content ranges from negligible to about 3% in the north flows predominate with local flow breccia, lapilli tuff, and rare welded tuff units; toward the south, ash flows are common, including rare surge deposits; the unit contains extensive zones of epidotized, pyritic rock with characteristic salmon, pink, and orange plagioclase crystals.

Units 7 and 3 are indicated to be present on the property in direct contact which is presumed to represent an unconformable contact. The other contacts between the above units on the property are indicated to be fault contacts.



Schematic composite stratigraphic section illustrating the relative position of major Toodoggone lithologic units from which K/Ar radiometric dates have been obtained.

after: T. G. Schroeter (1985)
page 298

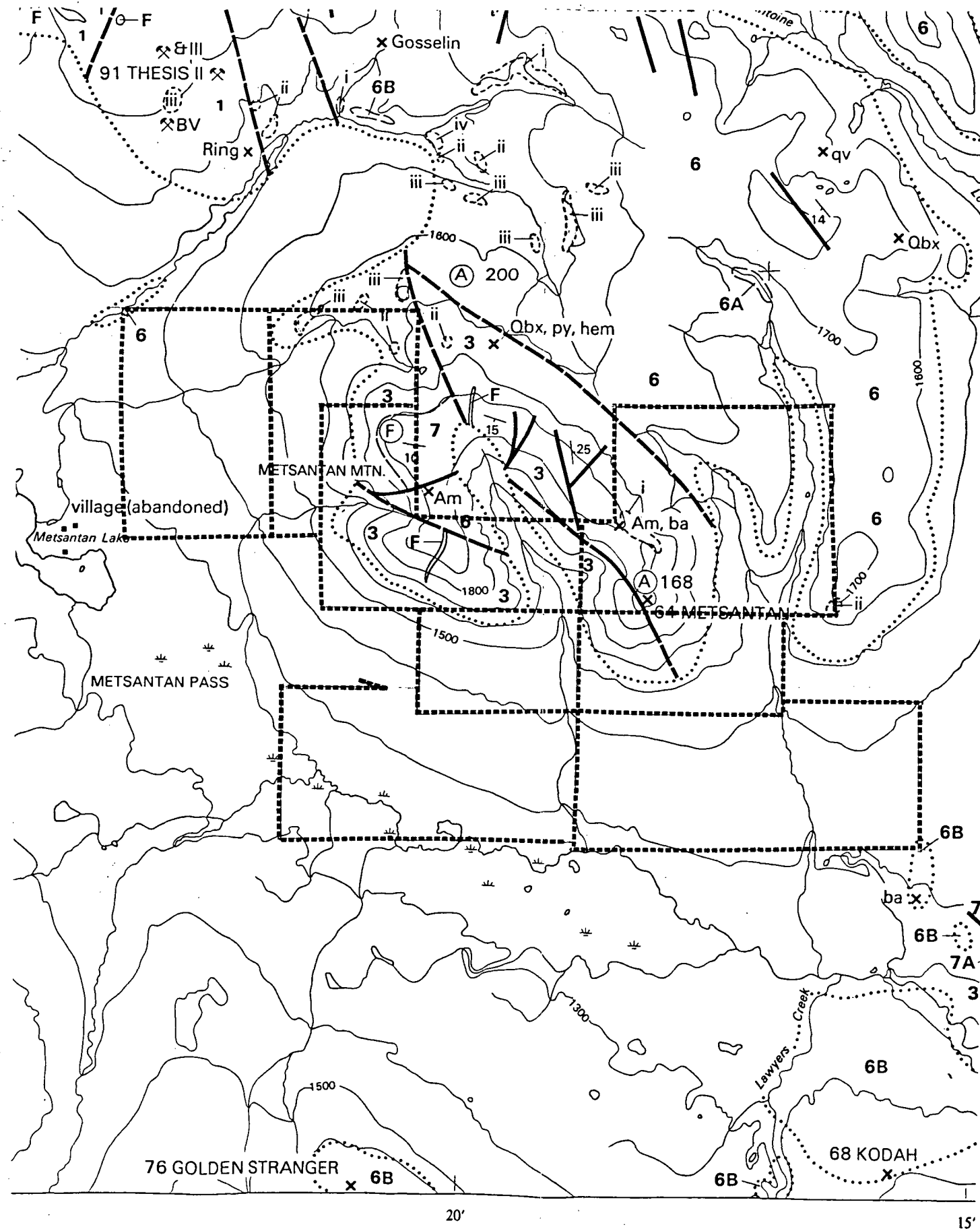
FIGURE 3
STRATIGRAPHIC SECTION

GEOLOGY OF THE TOODOGGONE RIVER AREA, NTS 94E

Scale 1:50 000

L. J. DIAKOW, A. PANTELEYEV, AND T. G. SCHROETER, 1985

MINISTRY MAPPING 1971 TO 1984, MAINLY 1981-1984; ADDITIONAL SOURCES OF INFORMATION: ASSESSMENT REPORTS; GEOLOGICAL SURVEY OF CANADA OPEN FILE 483, 1977; RADIOMETRIC DATING (K/Ar) BY J. HARAKAL, THE UNIVERSITY OF BRITISH COLUMBIA



LAWYERS—METSANTAN QUARTZOSE ANDESITE

3 GREEN TO GREY QUARTZOSE PYROXENE (?) BIOTITE HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS AND TUFFS. QUARTZ CONTENT RANGES FROM NEGLIGIBLE TO ABOUT 3 PER CENT. IN THE NORTH FLOWS PREDOMINATE WITH LOCAL FLOW BRECCIA, LAPILLI TUFF, AND RARE WELDED TUFF UNITS. TOWARD THE SOUTH ASH FLOWS ARE COMMON, INCLUDING RARE SURGE DEPOSITS. THE UNIT CONTAINS EXTENSIVE ZONES OF EPIDOTIZED, PYRITIC ROCK WITH CHARACTERISTIC SALMON, PINK, AND ORANGE PLAGIOCLASE CRYSTALS

168 = 6 Ma
HYDROTHERMAL
ADULARIA

TOODOGGONE CRYSTAL ASH TUFFS AND FLOWS

7 RECESSIVE, GREY, MAUVE, PURPLE QUARTZOSE PLAGIOCLASE CRYSTAL TUFF LAPILLI TUFF, AND BRECCIA, WITH LESSEER AGGLOMERATE, LAHAR, AND EPI-CLASTIC BEDS; INCLUDES SOME WELDED TUFF UNITS. TOWARD THE SOUTH ASH FLOWS ARE COMMON, INCLUDING RARE SURGE DEPOSITS. THE UNIT CONTAINS EXTENSIVE ZONES OF EPIDOTIZED, PYRITIC ROCK WITH CHARACTERISTIC SALMON, PINK, AND ORANGE PLAGIOCLASE CRYSTALS

7A EPICLASTIC RED BEDS — ARKOSIC SANDSTONE, SILTSTONE, CONGLOMERATE, AND SLIDE DEBRIS; CONTAINS SOME CRYSTAL TUFF

TUFF PEAK FORMATION

6 PALE PURPLE, GREY, AND GREEN BIOTITE AUGITE HORNBLENDE PLAGIOCLASE PORPHYRY FLOWS; SOME AUTOBRECCIATED FLOWS, MINOR SILLS AND PLUGS SOME CRYSTAL AND LAPILLI TUFF

6A CONGLOMERATE OR LAHAR DERIVED FROM UNITS 6 AND 6B, WITH GRADED AND CROSSLAMINATED MUDSTONE AND SANDSTONE INTERBEDS; DEBRIS-FLOWS, LAPILLI AND CRYSTAL TUFFS

6B FLOWS SIMILAR TO UNIT 6 BUT CONTAINING SPARSE ORTHOCLASE MEGACRYSTS

F FELDSPAR PORPHYRY, HORNBLENDE FELDSPAR PORPHYRY — DYKES AND PLUGS; RARE QUARTZ FELDSPAR PORPHYRY

SYMBOLS

| | |
|---|-------|
| MINERAL OCCURRENCE (MINERAL INVENTORY FILE NUMBER) | x 43 |
| MINERAL PROSPECT (MINERAL INVENTORY FILE NUMBER) | x 34 |
| EXPLORATION CAMP | ⊖ |
| PLACER WORKINGS | ⋆ |
| PARK BOUNDARY | — |
| ROAD | — |
| MAIN OUTCROP AREAS | ⊙ |
| Fault (OBSERVED, INFERRED) | — |
| THrust OR REVERSE Fault (OBSERVED, INFERRED) | — |
| GEOLOGIC CONTACT (DEFINED, ASSUMED) | — |
| BEDDING, LAYERING, FOLIATION (HORIZONTAL, INCLINED, VERTICAL) | + 10° |
| FOLD AXES | — |
| FOSSIL LOCALITY (PLANT DEBRIS) | ⊕ |
| RADIOMETRIC DATE SAMPLE SITE, AGE IN Ma | Ⓐ 104 |
| VOLCANIC VENT | ⊛ |
| HYDROTHERMAL ALTERATION | |
| FERRICRETE, QUATERNARY FERRUGINOUS BRECCIA | Ⓧ |
| SILICA, CLAY MINERALS ± ALLUNITE, BARITE | Ⓨ |
| CLAY MINERALS ± ALLUNITE, SILICA, HEMATITE | Ⓩ |
| GOSSAN, LIMONITIC ZONE | ⓓ |

FIGURE 4
REGIONAL GEOLOGY

PROPERTY GEOLOGY

The geological observations made during traverses and soil sampling are included on Maps 1, 2, and 3. No significant modifications have been made to the geology as presented on the regional scale. The main emphasis of the program concentrated on the location of alteration zones and vein systems.

"A" Grid

Limited geological mapping was carried out in the "A" Grid area while the soil geochemical sampling program was in progress. The results of this work are presented on Map 1.

A number of bedrock exposures were located and examined, most of which lie on the outer grid limits. Rock types encountered varied from purple to grey crystal tuffs, to purple trachy-andesite flows that generally display weak to moderate silica and clay alteration. Sulphide mineralization was not observed.

Metsantan 2

On the Metsantan 2 claim just west of tie line 25+00W on the "B" Grid, a series of subparallel, narrow, but persistent fracture zones cuts the Metsantan volcanics with a northeast-southwest orientation. Due to a recent snowfall, complete evaluation of the structures was not possible. However, the four strongest fracture zones were briefly examined and found to consist of intense fracturing and hairline fracturing (vertical), weak to moderate siliceous alteration of the country rock, and enclosure by an envelope of hematized rock. Higher on the structures topographically, some quartz-calcite flooding of fractures was noted. The potential of these structures is not known; however, given the width (~10 metres) and the open strike length, the structures should be sampled in more detail. The structural controls and alteration observed place these features as high, second-priority targets.

"B" Grid Metsantan 2 & 8 (Map 1)

While establishing the lines of the "B" Grid, a number of outcrops and boulder trends were encountered and briefly examined. Of particular note are two outcrop areas on Lines 0+00 and 4+00S. On Line 0+00 between stations 3+00W and 6+00W, there is an exposure of Metsantan andesite porphyry tuff and the Toodoggone crystal tuff, with the contact on or about station 3+75W. Throughout this outcrop, there is quartz veining and malachite staining associated with primary fracture sets. On Line 4+00S extending through stations 5+00W to 7+00W, there is an exposure of Metsantan andesite porphyry which also hosts fracture-controlled malachite mineralization but lacks the quartz infilling noted elsewhere. Thick coatings of malachite occur along primary fracture sets, as well as in disseminated form in unfractured rock between close-spaced fractures.

Between Lines 0+00 and 4+00S at approximately stations 1+00W to 2+00W, there is an exposure of Metsantan andesite porphyry tuff which is well fractured and has undergone moderate siliceous alteration. Minor quartz is associated with both primary and secondary fracture sets. Narrow quartz breccia zones have developed where fracturing is intense, but quartz and malachite occur more commonly in lenses and along flooded fractures in areas of weaker but more persistent fracturing.

Metsantan 9 (Map 3)

A geological traverse and stream sediment sampling were carried out over the Metsantan 9, which is situated along the Toodoggone River lowlands; the claim was found to be completely covered with overburden. Bedrock exposures are non-existent; however, isolated boulder patches and trains were located and prospected carefully. The three minor streams draining the claim were sampled, returning negligible gold and silver values.

The geological traverse failed to locate anything of economic interest, and although rock types varied from one locale to another, most of the boulders examined consisted of various members of the Toodoggone Formation. It should be noted that these boulders were found in sub-rounded to rounded form.

TRENCH GEOLOGY

A selection of trenches initially completed during the Lacana program were cleaned out and re-sampled. In addition, new trenches were cut with the use of a backhoe, to explore various alteration zones and vein systems. Approximately 200 metres of new backhoe trenching was completed to an average depth of 1.5 metres, and to 1 metre in width. The geological observations and analytical results are illustrated on Figures 5 to 22.

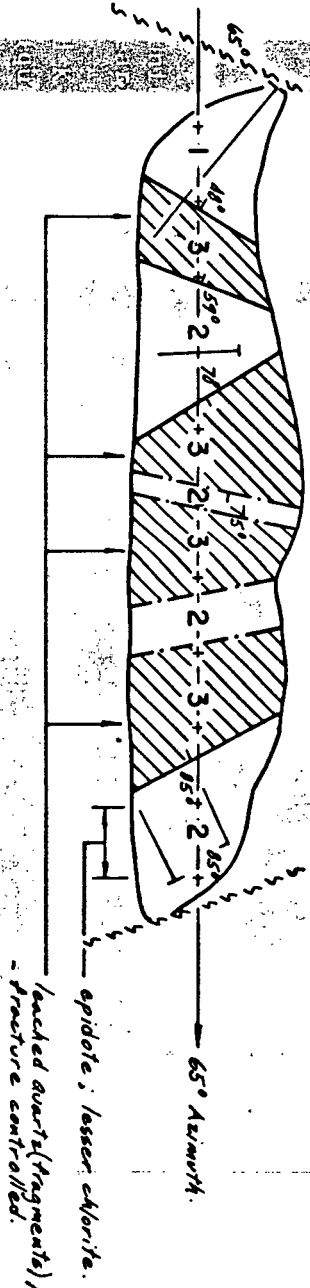
RE-SAMPLING OF LACANA TRENCHES

Ridge Zone "C" Grid

In August 1985, five of Lacana's trenches (L-82-2, L-82-13, L-82-14, L-82-15, L-82-16) in the Ridge Zone were cleaned and re-sampled. These trenches were selected on the basis of attractive Au- and Ag-in-rock values previously obtained. Quartz and/or barite were observed in four of the trenches with the strongest development in L-82-16. No vein system was evident in the sampled portion of L-82-14.

In L-82-16 (Figure 5), four irregular quartz-barite zones were exposed after substantial cleaning and further hand trenching. These appear to be more extensive than indicated on previous trench maps. The trench is cut within an area between two mappable converging fault systems. These faults mark the outer boundaries of a zone of intense fracturing, siliceous alteration, and quartz-barite vein development. The host rock, while variably altered, is the trachyte unit of the Toodoggone Volcanics. Quartz-barite zones consist mainly of a barite-rich mud containing numerous angular quartz fragments. In places, at depth, fresh quartz-barite vein material was encountered. Contacts with the intensely silicified wallrock are both sharp (fracture-controlled) and transitional (where intense hairline fracturing has brecciated the rock). The trench was selectively and lithologically channel-sampled over 0.5-metre intervals. The better Au-in-rock results are largely restricted to the barite-rich zones.

| O.M. | OZ./TON |
|--------|-------------|
| 014130 | .018 ; .26 |
| 014131 | .878 ; .94 |
| 014132 | .144 ; .13 |
| 014133 | .014 ; .20 |
| 014134 | .146 ; .32 |
| 014135 | .378 ; .46 |
| 014136 | .286 ; .31 |
| 014137 | .204 ; .22 |
| 014138 | .344 ; .29 |
| 014139 | .866 ; .60 |
| 014140 | .660 ; 1.09 |
| 014141 | .366 ; .54 |
| 014142 | .042 ; .04 |
| 014143 | .012 ; tr. |
| 014144 | .058 ; tr. |
| 014145 | .002 ; tr. |
| 014146 | .012 ; tr. |
| 014147 | tr. ; .06 |



Au (oz./ton); Ag (oz./ton)

- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

BART RESOURCES LTD.

TRENCH - 82-16
(Lacana)

DATE SEPT./1985 NTS 94 E/6 W
PROJECT BC-85-4 MAPPED/DRAWN BY G.W.

SCALE 1:100 0 1 2 3m

TAIGA CONSULTANTS LTD. FIG. 5

Trench L-82-15 (Figure 6) lies further to the northeast, and was cut on a narrow zone of quartz stringers. This location represents the most northerly traceable vein development within the hosting fracture/fault system which converges at this point. Quartz stringers 2 cm wide and silicified fractures occupy a 0.5-metre zone cutting the highly sheared and silicified trachyte to trachy-andesite host rock at 150° Az, dipping 52°W (hanging wall) and at 38°E (foot wall).

The following table compares the results from the two sets of samples collected for the selected trenches. The sample intervals are not identical but the results represent the same mineralized intervals.

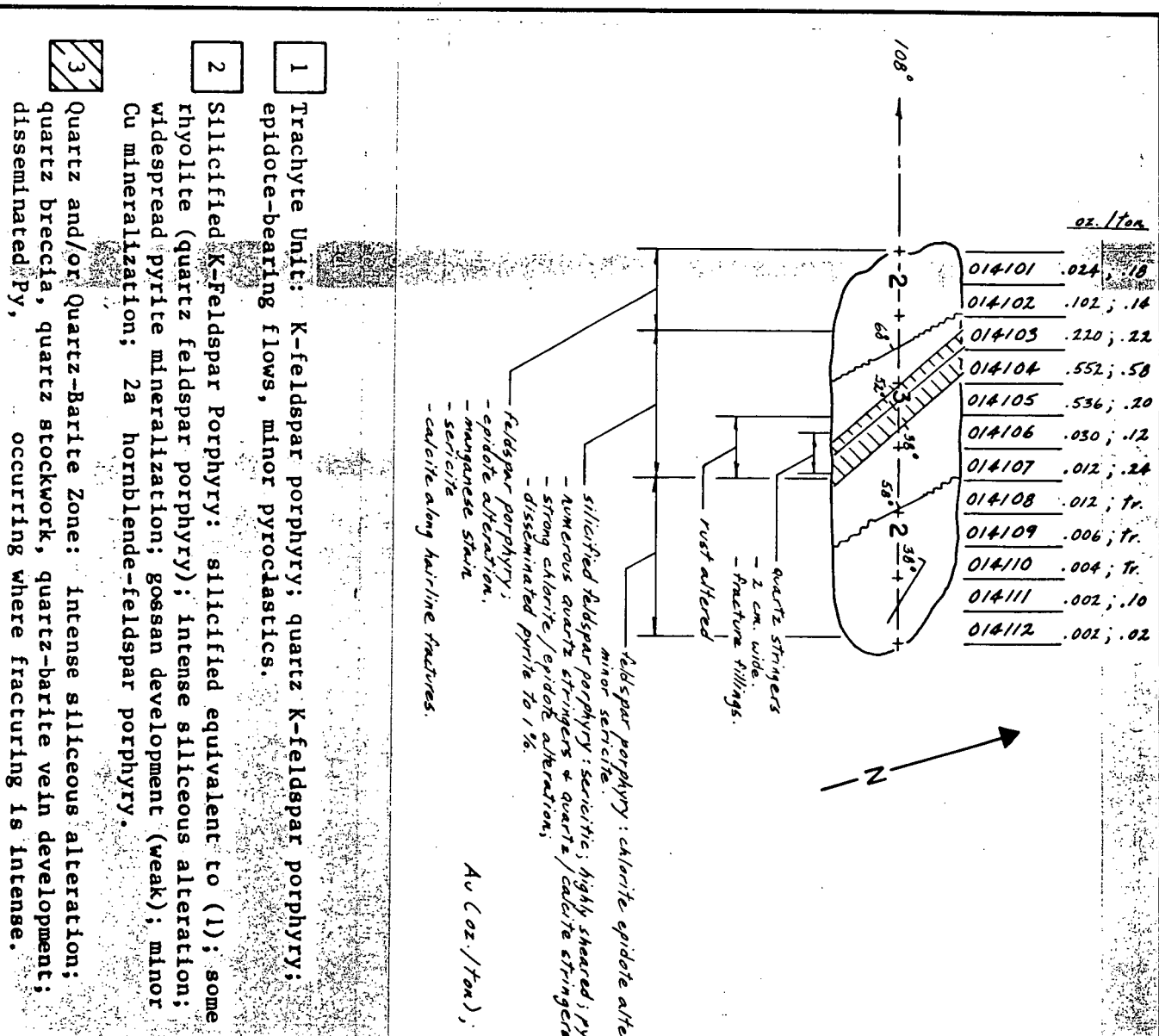
| | <u>Lacana (1982)</u> | <u>Bart (1985)</u> |
|---------|----------------------|---------------------|
| | <u>Au (oz/ton)</u> | <u>Au (oz/ton)</u> |
| L-82-2 | 0.216 / 4.2 m 7.41 | 0.342 / 3.0 m 11.73 |
| L-82-13 | 0.184 / 1.0 m 6.31 | 0.095 / 2.0 m 3.26 |
| L-82-14 | 0.127 / 7.0 m 4.35 | 0.037 / 3.0 m 1.27 |
| L-82-15 | 0.326 / 2.0 m 11.18 | 0.353 / 2.0 m 12.1 |
| L-82-16 | 0.226 / 7.5 m*7.75 | 0.277 / 8.0 m 9.49 |

* includes 1.2 m not sampled, taken as \emptyset

There is a general close agreement between the two sets of sample results with the exception of Trench L-82-14. It should be noted that in neither trench map for L-82-14 was a well-defined quartz-barite zone recognized (Figure 7). As the higher grade trenches are present immediately above Trench L-82-14 on a steep slope, possible contamination by fines during the initial sampling may have caused this discrepancy.

The limited sampling by Lacana of the Ridge Zone and the limited rock sampling completed this year by Bart Resources clearly establishes this zone to be a significant zone of precious metals mineralization.

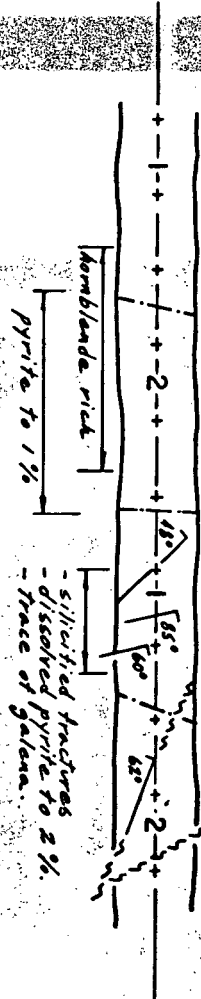
The lack of significant quartz-barite zones in the drilling and the lack of the quartz-barite zone below Trench L-82-16, suggests possible fault disruptions of the mineralized zone. The development of a quartz-barite zone 30 metres to the east in Trenches L-82-11 and L-82-14 may be a fault displaced continuation of the main structure. The overall zone of alteration and quartz-barite mineralization has been clearly established to be present over a considerable strike length in the order of at least 600 metres. It is unlikely that a structural zone of this lateral extent would virtually disappear at the depths previously drill tested.



| | |
|-------------------------------|----------------------|
| BART RESOURCES LTD. | |
| TRENCH - 82-15 | |
| (Locand) | |
| DATE | SEPT./1985 |
| PROJECT | BC-85-4 |
| SCALE | 1:100 |
| | |
| MAPPED/DRAWN BY | NTS 94 E/6 W G.W. |
| TAIGA CONSULTANTS LTD. FIG. 6 | |

- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

| | oz./Ton |
|--------|-----------|
| 21 m. | |
| 014148 | .002; tr. |
| 014149 | tr.; .10 |
| 014150 | Tr.; Tr. |
| 014151 | .014; Tr. |
| 014152 | .008; Tr. |
| 014153 | .006; Tr. |
| 014154 | .022; Tr. |
| 014155 | .004; Tr. |
| 014156 | .024; .14 |
| 014157 | .054; Tr. |
| 014158 | .010; .04 |
| 014159 | .024; Tr. |
| 014160 | .058; .06 |
| 014161 | .050; .02 |
| 014162 | tr.; .20 |
| 014163 | tr.; tr. |
| 014164 | tr.; tr. |
| 014165 | .016; tr. |



Au (oz./Ton); Ag (oz./Ton)

- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

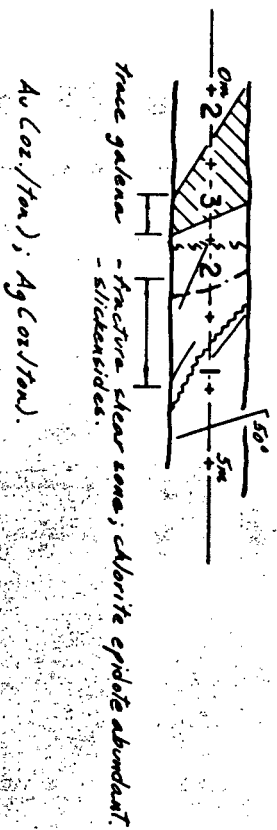
BART RESOURCES LTD.

TRENCH - 82-14
(Locand)

| | | | |
|---------|------------|-----------------|----------|
| DATE | SEPT./1985 | NTS | 94 E/6 W |
| PROJECT | BC-85-4 | MAPPED/DRAWN BY | G.W. |
| SCALE | 1:100 | | |

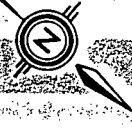
TAIGA CONSULTANTS LTD. FIG. 7

| | oz. / ton |
|--------|------------|
| 66.0m. | |
| 014120 | .082 ; .16 |
| 014121 | .094 ; .30 |
| 014122 | .066 ; .40 |
| 014123 | .138 ; .64 |
| 014124 | .012 ; .04 |
| 014125 | Tr. ; .02 |
| 014126 | .012 ; .10 |
| 014127 | .042 ; .34 |
| 014128 | .004 ; .08 |
| 014129 | .006 ; .22 |
| 71.0m. | |



- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

| | |
|-------------------------------|----------------------|
| BART RESOURCES LTD. | |
| TRENCH - 82-13 | |
| (Locand) | |
| DATE SEPT./1985 | NTS 94 E/6 W |
| PROJECT BC-85-4 | MAPPED/DRAWN BY G.W. |
| SCALE 1:100 | 0 1 2 3m |
| TAIGA CONSULTANTS LTD. FIG. 8 | |



| | Au oz/ton | Ag g/ton |
|-------|--------------|-------------|
| 04113 | .022 | 42 |
| 04114 | .870 | 46 |
| 04115 | .406 | 10 |
| 04116 | .156 | .02 |
| 04117 | .204 | .14 |
| 04118 | .310 | .22 |
| 04119 | .108 | .40 |

.342 oz/ton Au/3m



rubble

- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

| | | | |
|----------------------------|------------|---------------------|----------|
| BART RESOURCES LTD. | | | |
| TRENCH 82-2 (LACANA) | | | |
| DATE | SEPT./1985 | NTS | 94 E/6 W |
| PROJECT | BC-85-4 | MAPPED/ DRAWN BY | G.W. |
| SCALE | 1:100 | | |
| | | | FIG. 9 |

The Ridge Zone warrants further investigation as a complex mineralized zone with the local presence of excellent gold values. Re-mapping of the zone should be considered with strong emphasis placed on tracing out the quartz-barite zones to try to identify post-mineralization off-setting structures. Further shallow diamond drilling should follow the surface program to establish the mineralized veins in three dimensions. Caution should be taken to initiate drilling to test mineralized structures at shallow depths.

It should be noted that during this year's re-investigation of the zone, no evidence was present to suggest that the previous drilling was in the wrong direction. Other operators in this camp have encountered similar problems which appear related to post-mineralization faulting which has disrupted the mineralized zones at depth.

Central Silver Zone

In Trench L-82-17 (Figure 10), two narrow quartz breccia zones were exposed along the eastern extension of the original trench. Both zones consist of fragmented quartz, mineralized with galena (to 2%), pyrite (to 2%), and very minor chalcopyrite. The host rock is a purple to grey trachy-andesite, locally trachyte, moderately silicified through the central part, and enclosed in an envelope of strong clay alteration. Local fracturing is irregular and moderate in intensity. The system strikes northerly and appears to be partially exposed in Trench 85-11.

The zone contrasts with the Ridge Zone in having relatively high silver values in contrast to gold values. This type of reversal of gold and silver is evident in other prospects. The best interval of precious metals enrichment averages 0.018 oz/ton gold and 2.35 oz/ton silver over 3 metres.

1985 TRENCHING PROGRAM

North Silver Zone

The main body of the 1985 trenches evaluated a possible northern continuation of the Central Silver Zone. Trenches 85-5 to 85-12 were completed to

| | |
|--------|----------------------------|
| 0 m | |
| 014166 | 68 ppb ; 3.7 ppm |
| 014167 | 30 ppb ; 3.2 ppm |
| 014168 | 22 ppb ; 3.9 ppm |
| 014169 | 22 ppb ; 1.6 ppm |
| 014170 | .012 oz./ton ; .04 oz./ton |
| 014171 | 84 ppb ; 2.8 ppm |
| 014172 | 34 ppb ; 3.2 ppm |
| 014173 | 70 ppb ; 4.6 ppm |
| 014174 | 22 ppb ; 2.3 ppm |
| 014175 | 54 ppb ; 8.2 ppm |
| 014176 | 54 ppb ; 7.1 ppm |
| 014177 | 80 ppb ; 4.7 ppm |
| 014178 | .018 oz./ton ; .40 oz./ton |
| 014179 | 188 ppb ; 31 ppm |
| 014180 | 588 ppb ; 72 ppm |
| 014181 | 908 ppb ; 147 ppm |
| 014182 | 84 ppb ; 9.1 ppm |
| 014183 | 216 ppb ; 8.0 ppm |
| 014184 | 262 ppb ; 6.7 ppm |
| 014185 | 188 ppb ; 8.4 ppm |
| 014186 | 446 ppb ; 3.9 ppm |
| 014187 | 262 ppb ; 7.1 ppm |
| 014188 | 264 ppb ; 12.0 ppm |
| 014189 | tr. tr. |
| 014190 | 6 ppb ; 1.09 ppm |
| 014191 | 4 ppb ; 0.97 ppm |
| 014192 | 28 ppb ; 3.14 ppm |
| 014193 | 422 ppb ; 4.0 ppm |
| 014194 | 32 ppb ; 1.48 ppm |
| 014195 | .004 oz./ton ; .20 oz./ton |
| 014196 | 22 ppb ; 1.12 ppm |
| 26 m | |



Au (ppb, oz./ton); Ag (ppm, oz./ton)

- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py. occurring where fracturing is intense.

| | |
|--------------------------------|----------------------|
| BART RESOURCES LTD. | |
| TRENCH - 82-17 | |
| (Lacana) | |
| DATE SEPT./1985 | NTS 94 E/6 W |
| PROJECT BC-85-4 | MAPPED/DRAWN BY G.W. |
| SCALE 1:100 | 0 1 2 3 m |
| TAIGA CONSULTANTS LTD. FIG. 10 | |

examine quartz-barite zones that had not been previously evaluated. Lacana maps indicate a general soil anomaly to be present in the vicinity of the trenched area. The identification of vein systems not previously investigated in proximity to indicated soil anomalies led to the decision to trench these veins. The 1985 soil survey confirmed the presence of some elevated gold and silver values but did not suggest that this was a high-order target.

Central
Silver
Zone

T-85-12 (Figure 11) did not encounter any quartz-barite system; however, the sampling indicates elevated silver values to a maximum of 10 ppm (0.29 oz/ton).

North
Silver
Zone

T-85-11 (Figure 12) encountered a narrow quartz-barite system over a maximum of 2 metres. One metre of this zone returned the highest gold value of 86 ppb. Elevated silver values were present in the quartz zone and for 3 metres into the wallrock to the north. The best interval was 7.9 ppm silver over 2 metres in the altered wallrock.

In T-85-10 (Figure 13), three quartz-barite zones were present. The western sector of the trench displayed elevated gold values over 12 metres with the best value of 836 ppb (0.024 oz/ton) gold obtained from within the western quartz zone. Elevated silver values were more widespread with the best values also present in the western portion of the trench, immediately west of the west quartz zone (1.1 oz/ton over 2 metres).

37.71 g/t

Trench T-85-9 (Figure 14) cut two quartz-barite zones. Gold enrichment was evident over the eastern quartz zone and the wallrock on either side which averages 153 ppb gold over 4.5 metres. Silver enrichment was evident in the western portion of the trench which averages 7.6 ppm (0.22 oz/ton) silver over 7 metres.

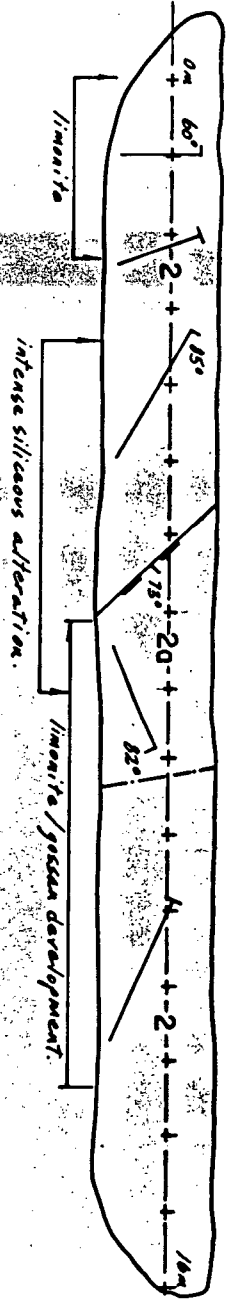
Trench T-85-8 (Figure 15) encountered one quartz-barite zone from which the eastern wallrock returned 0.099 oz/ton gold and 0.61 oz/ton silver over a 2-metre interval.

3.39 g/t

20.91 g/t

T-85-7 (Figure 16) partially cut the same quartz system that was intersected in T-85-8; however, the trench was not extended far enough to cut the eastern wallrock which returned the best values in T-85-8. A second

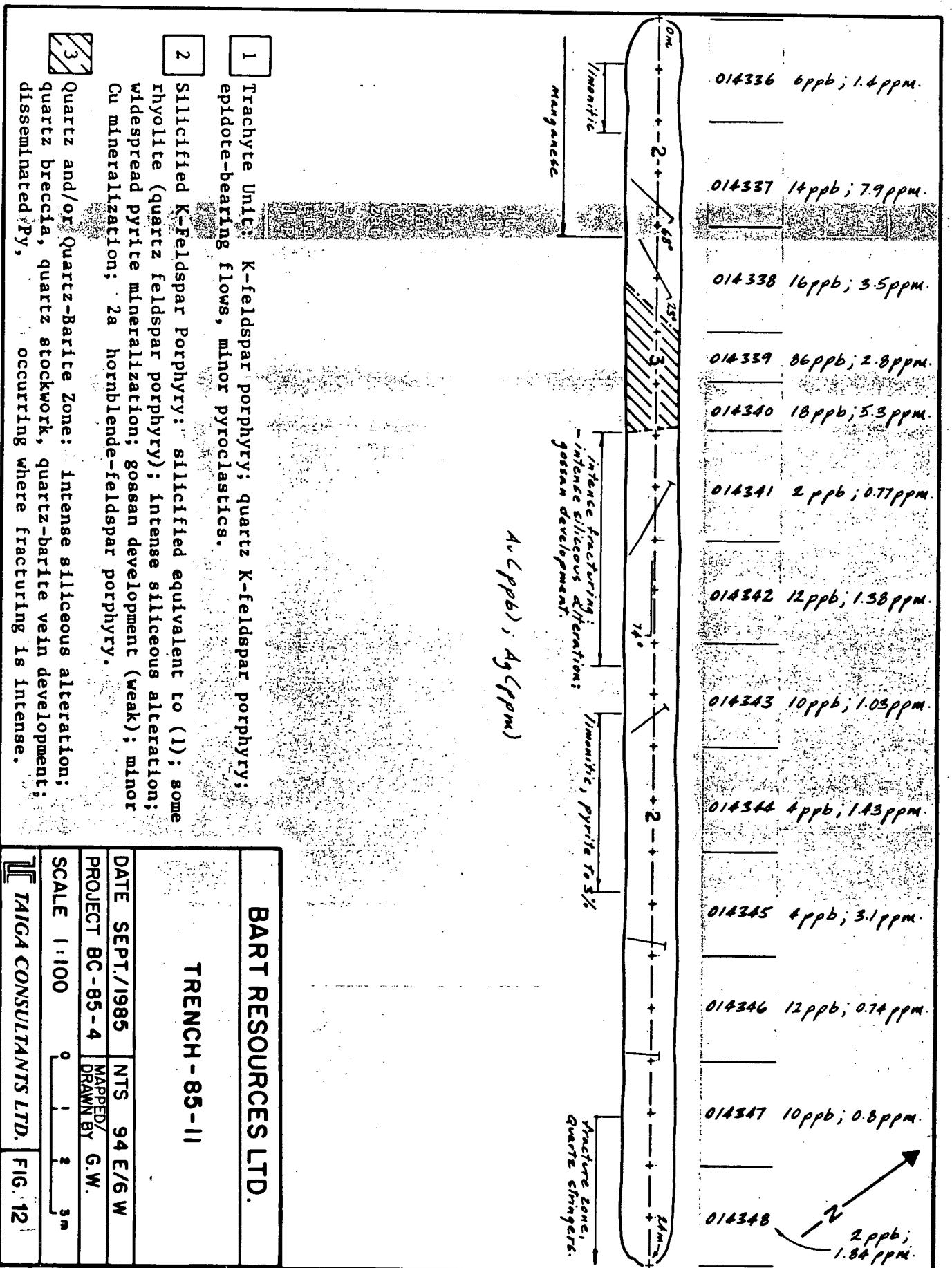
| | |
|--------|----------------------|
| 014328 | 20 ppb; 9.5 ppm. |
| 014329 | 12 ppb; 10.0 ppm. |
| 014330 | 4 ppb; 1.35 ppm. |
| 014331 | 6 ppb; 1.76 ppm. |
| 014332 | 4 ppb; 3.4 ppm. |
| 014333 | 2 ppb; 0.46 ppm. |
| 014334 | 14 ppb; 2.8 ppm. |
| 014335 | 4 ppb; 0.96 ppm. |



Au (ppb); Ag (ppm)

- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

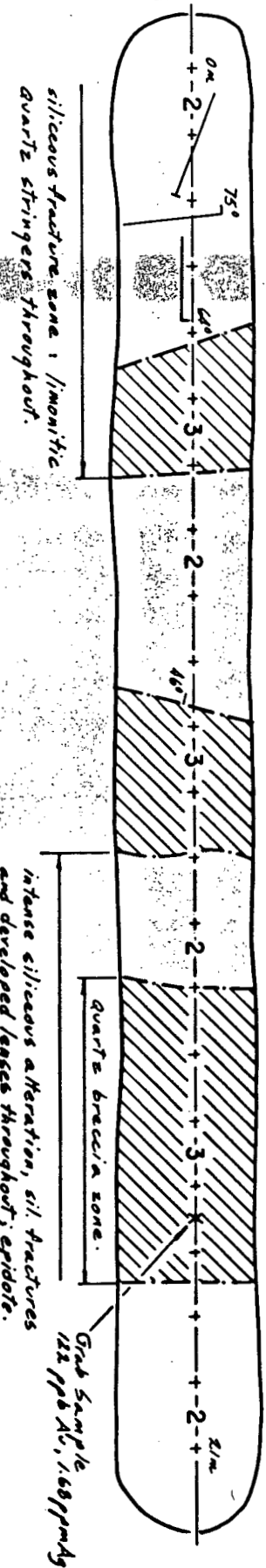
| | |
|--------------------------------|----------------------|
| BART RESOURCES LTD. | |
| TRENCH - 85-12 | |
| DATE SEPT./1985 | NTS 94 E/6 W |
| PROJECT BC-85-4 | MAPPED/DRAWN BY G.W. |
| SCALE 1:100 | 0 1 2 3 m |
| TAIGA CONSULTANTS LTD. FIG. 11 | |



BART RESOURCES LTD.

TRENCH - 85-11

| | |
|--------|--------------------|
| 014349 | 76 ppb; 11.2 ppm. |
| 014350 | 142 ppb; 48.0 ppm. |
| 014351 | 156 ppb; 20.0 ppm. |
| 014352 | 92 ppb; 6.2 ppm. |
| 014353 | 836 ppb; 1.25 ppm. |
| 014354 | 232 ppb; 1.14 ppm. |
| 014355 | 134 ppb; 7.5 ppm. |
| 014356 | 52 ppb; 3.2 ppm. |
| 014357 | 114 ppb; 5.5 ppm. |
| 014358 | 96 ppb; 0.7 ppm. |
| 014359 | 20 ppb; 32 ppm. |
| 014360 | 54 ppb; 5.3 ppm. |
| 014361 | 28 ppb; 3.6 ppm. |
| 014362 | 16 ppb; 2.9 ppm. |
| 014363 | 14 ppb; 3.1 ppm. |
| 014364 | 16 ppb; 2.6 ppm. |
| 014365 | 26 ppb; 0.82 ppm. |
| 014366 | 14 ppb; 0.59 ppm. |
| 014367 | 16 ppb; 0.23 ppm. |

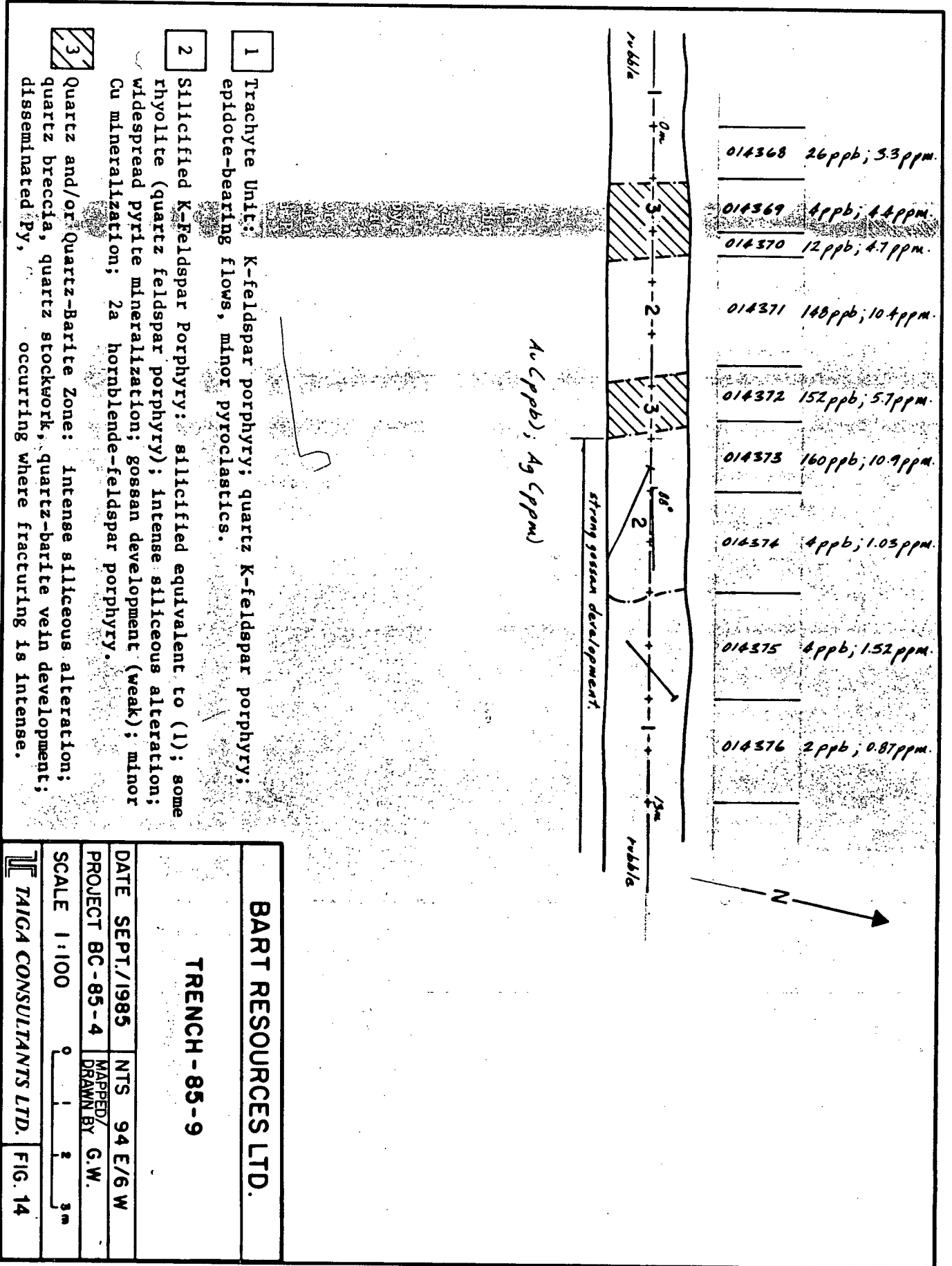


Au (ppb); Ag (ppm)

intense siliceous alteration, sil. fractures and developed lenses throughout; epidote.

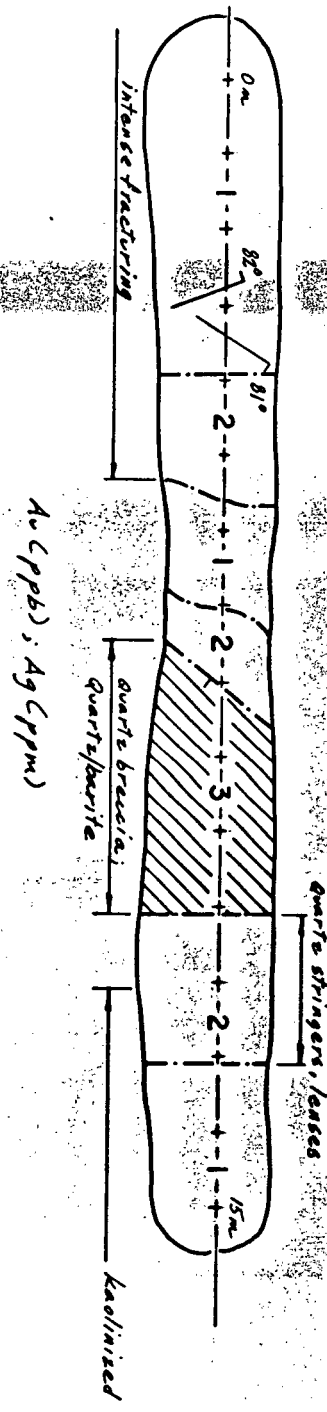
- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

| | |
|--------------------------------|----------------------|
| BART RESOURCES LTD. | |
| TRENCH - 85-10 | |
| DATE | SEPT./1985 |
| PROJECT | BC-85-4 |
| SCALE | 1:100 |
| MAPPED/DRAWN BY | NTS 94 E/6 W G.W. |
| TAIGA CONSULTANTS LTD. FIG. 13 | |



| | | | |
|----------------------------|------------|---------------------|----------|
| BART RESOURCES LTD. | | | |
| TRENCH - 85-9 | | | |
| DATE | SEPT./1985 | NTS | 94 E/6 W |
| PROJECT | BC-85-4 | MAPPED/ DRAWN BY | G.W. |
| SCALE | 1:100 | 0 | 1 2 3m |
| TAIGA CONSULTANTS LTD. | | | FIG. 14 |

| | |
|--------|------------------------|
| 014377 | 10 ppb; 1.88 ppm. |
| 014378 | 12 ppb; 2.6 ppm. |
| 014379 | 2 ppb; 0.9 ppm. |
| 014380 | 28 ppb; 6.0 ppm. |
| 014381 | 50 ppb; 9.2 ppm. |
| 014382 | 62 ppb; 11.8 ppm. |
| 014383 | 70 ppb; 7.8 ppm. |
| 014384 | 66 ppb; 5.7 ppm. |
| 014385 | 3380 ppb; 21.0 ppm. |
| 014386 | 10 ppb; 0.77 ppm. |



- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

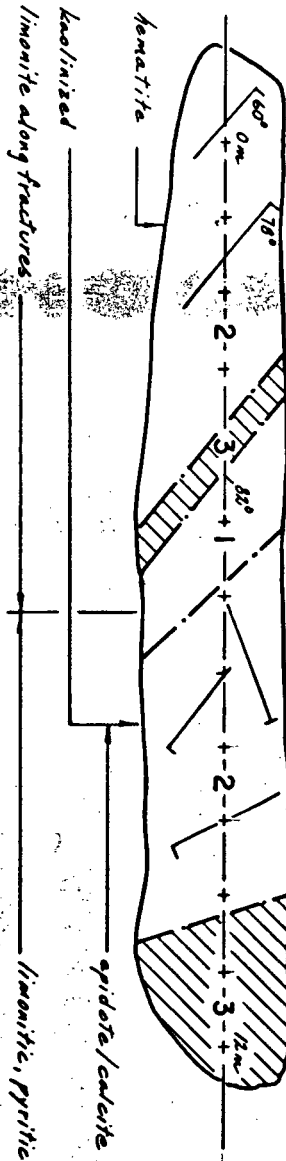
BART RESOURCES LTD.

TRENCH - 85-8

| | | | |
|---------|------------|-----------------|----------|
| DATE | SEPT./1985 | NTS | 94 E/6 W |
| PROJECT | BC-85-4 | MAPPED/DRAWN BY | G.W. |
| SCALE | 1:100 | 0 1 2 3m | |

TAIGA CONSULTANTS LTD. FIG. 15

| | |
|--------|---------------------|
| 014387 | 250 ppb ; 1.62 ppm. |
| 014388 | 20 ppb ; 4.5 ppm. |
| 014389 | 28 ppb ; 4.2 ppm. |
| 014390 | 40 ppb ; 6.2 ppm. |
| 014391 | 4 ppb ; 4.2 ppm. |
| 014392 | 20 ppb ; 1.88 ppm. |
| 014393 | 58 ppb ; 1.27 ppm. |
| 014394 | 12 ppb ; 2.7 ppm. |
| 014395 | 54 ppb ; 0.5 ppm. |
| 014396 | 22 ppb ; 1.07 ppm. |
| 014397 | 320 ppb ; 4.6 ppm. |
| 014398 | 416 ppb ; 3.6 ppm. |



- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

| | |
|--------------------------------|----------------------|
| BART RESOURCES LTD. | |
| TRENCH - 85-7 | |
| DATE SEPT./1985 | NTS 94 E/6 W |
| PROJECT BC-85-4 | MAPPED/DRAWN BY G.W. |
| SCALE 1:100 | 0 1 2 3m |
| TAIGA CONSULTANTS LTD. FIG. 16 | |

narrow quartz zone was also cut by the trench. Gold enrichment appears more common than silver enrichment in this trench, with the best value of 416 ppb gold over one metre; the maximum silver value obtained was 6.2 ppm over one metre.

Trench T-85-6 (Figure 17) encountered two quartz-barite zones; the eastern one is the same zone present in T-85-7 and T-85-8. Low-level gold and silver enrichment to a maximum level of 136 ppb and 3 ppm respectively were obtained. The zone extends northward onto a steep slope and cannot be investigated further by mechanical trenching in this direction. The bedrock exposed along this steep slope was investigated by Lacana (maps, Oct. '81: North Rock Grid Geochemistry and Geology; Sept. '82: Geology Mineral Zones and Geochemistry). The 1981 map indicates a series of north-south trending quartz veins of which the one indicated at 1+45W/3+25N probably coincides with the main vein system evaluated by trenches 85-6 to 85-11. A grab sample is indicated on the map which returned 4150 ppb gold and 29.8 ppm silver. The 1982 map indicates different vein orientations and an additional anomalous sample (1280 ppb gold, 6.2 ppm silver).

Trench T-85-5 (Figure 18) cut a weak alteration zone which was partially exposed by the cat road. A narrow silicified zone returned 0.039 oz/ton gold and 1.2 oz/ton silver over 0.6 metre.

41.14 g/t

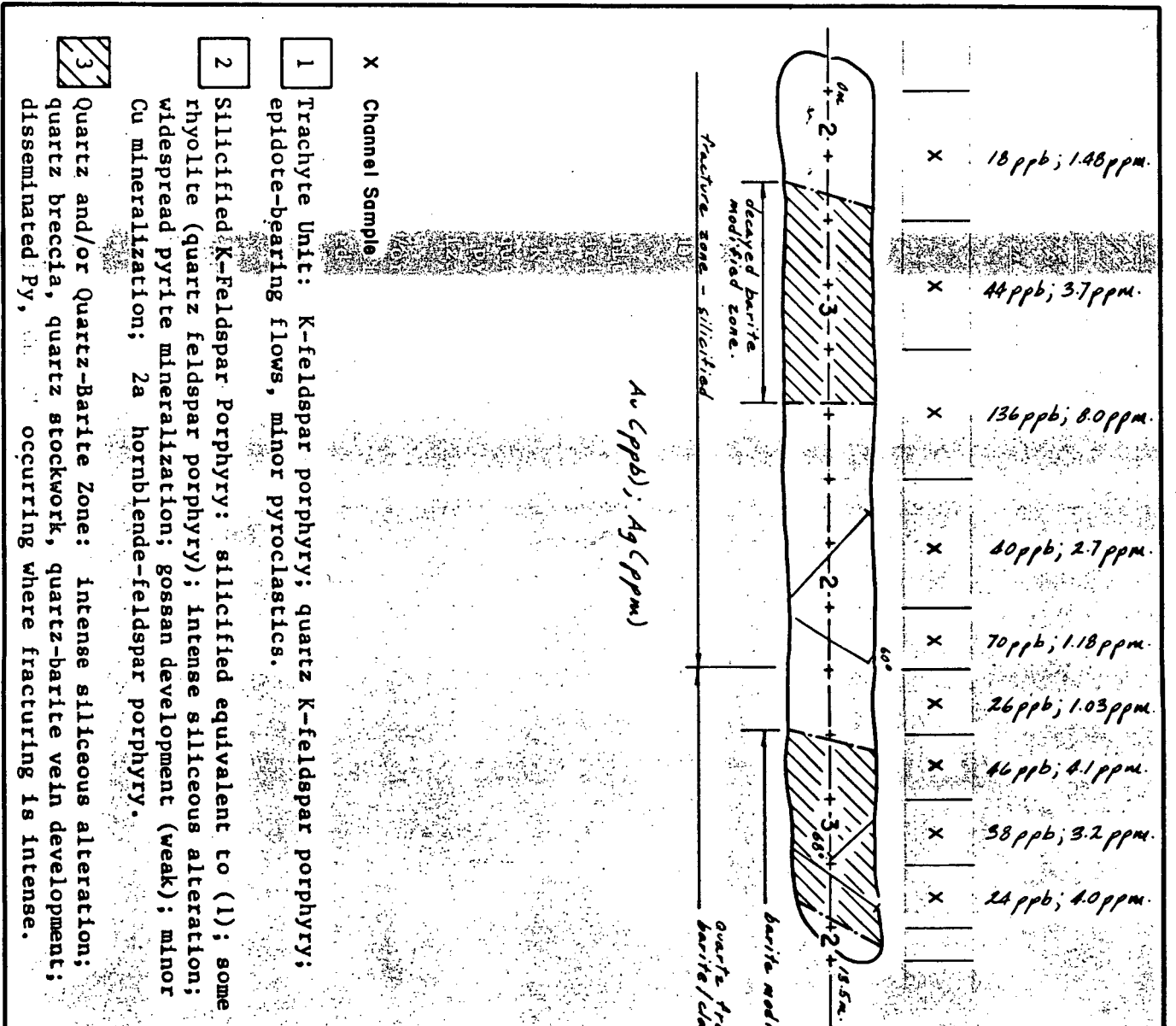
1.34 g/t

North Trenches

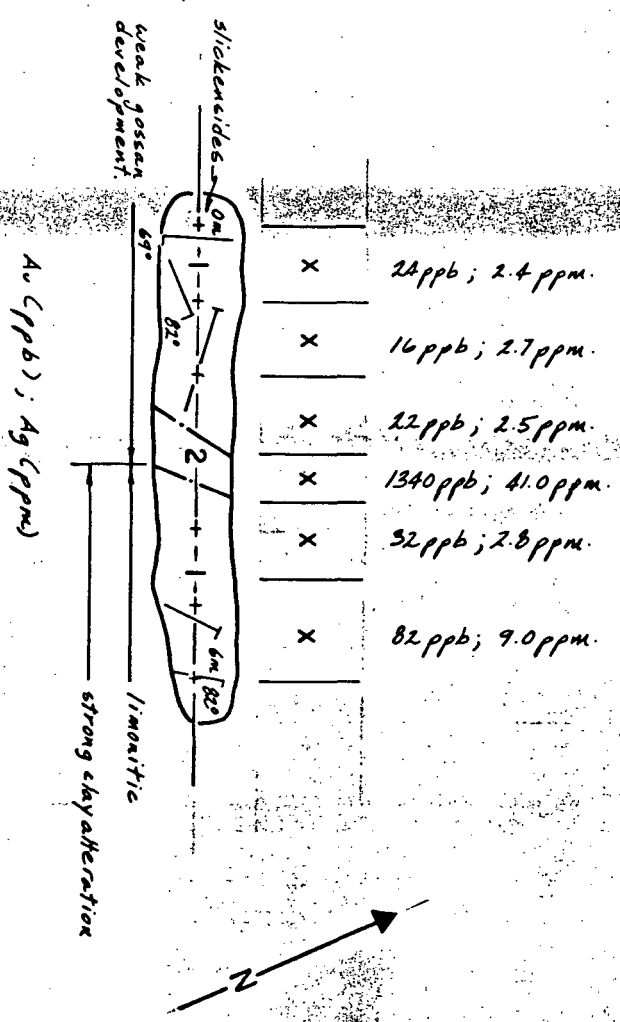
Four new trenches were cut to investigate alteration zones and quartz-barite veins which trend onto the Metsantan property from the adjacent Mets property. These are traceable on the ground due to clay alteration and the presence of resistant quartz fragments. Only one of three main vein trends was investigated by Trenches T-85-1 to T-85-3; trench T-85-4 investigated a weak alteration zone which was partially exposed by the cat road.

T-85-1 (Figure 19) cut a 2-metre quartz vein zone present within felsenmeer and broken outcrop. Two chip samples were collected over one-metre intervals. The best sample returned 212 ppb gold and 0.32 oz/ton silver. This vein is situated west of the main vein trend.

10.97



| | | | | | |
|---|------------|------------------------|----------|-----------------|------|
| BART RESOURCES LTD. | | | | | |
| TRENCH - 85 - 6 | | | | | |
| DATE | SEPT./1985 | | | | |
| PROJECT | BC-85-4 | | | | |
| SCALE | 1:100 | | | | |
| <table border="1"> <tr> <td>NTS</td> <td>94 E/6 W</td> </tr> <tr> <td>MAPPED/DRAWN BY</td> <td>G.W.</td> </tr> </table> | | NTS | 94 E/6 W | MAPPED/DRAWN BY | G.W. |
| NTS | 94 E/6 W | | | | |
| MAPPED/DRAWN BY | G.W. | | | | |
| <table border="1"> <tr> <td>TAIGA CONSULTANTS LTD.</td> <td>FIG. 17</td> </tr> </table> | | TAIGA CONSULTANTS LTD. | FIG. 17 | | |
| TAIGA CONSULTANTS LTD. | FIG. 17 | | | | |

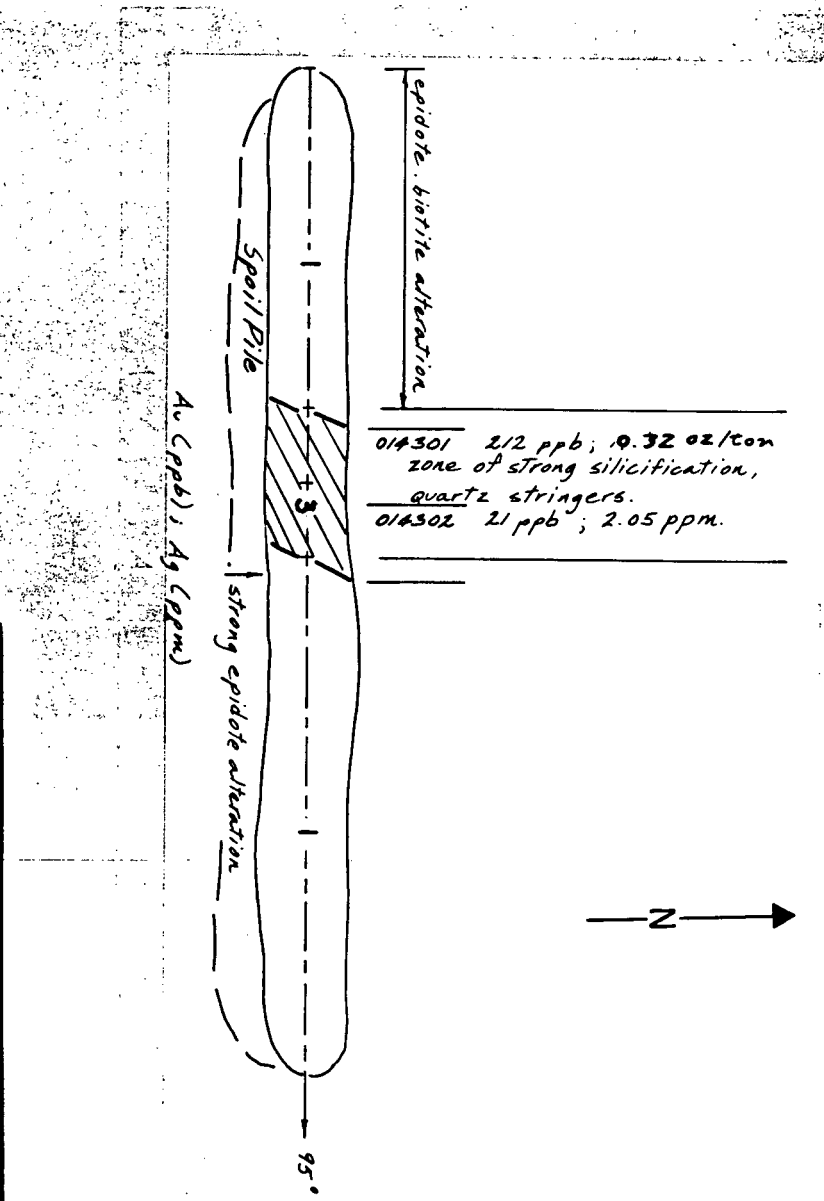


X Channel Sample

- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

| | |
|--------------------------------|----------------------|
| BART RESOURCES LTD. | |
| TRENCH - 85-5 | |
| DATE SEPT./1985 | NTS 94 E/6 W |
| PROJECT BC-85-4 | MAPPED/DRAWN BY G.W. |
| SCALE 1:100 | 0 1 2 3 m |
| TAIGA CONSULTANTS LTD. FIG. 18 | |

- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some thuyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.



| | | | |
|----------------------------|------------|---------------------|----------|
| BART RESOURCES LTD. | | | |
| TRENCH - 85-1 | | | |
| DATE | SEPT./1985 | NTS | 94 E/6 W |
| PROJECT | BC-85-4 | MAPPED/ DRAWN BY | T. M. |
| SCALE | 1:100 | | |
| TAIGA CONSULTANTS LTD. | | | FIG. 19 |

Trench T-85-2 (Figure 20) cut the main vein trend as was expressed by the clay altered soils and the quartz fragments. A clay-rich zone with quartz fragments was exposed over several metres. The best response was obtained over a 0.5-metre interval which returned 168 ppb gold and 0.22 ^{7.54} oz/ton silver. A narrow quartz vein situated 6 metres east of the main alteration returned 1.08 oz/ton gold and 17.3 ^{593.75} oz/ton silver over 0.5 metre. Enrichment in gold and silver is evident in both sides of this vein.

Trench T-85-3 (Figure 21) cut the main vein trend about 25 metres downslope from T-85-2. The heavy clay alteration was exposed over about a 2.5-metre interval. Only 1.5 metres were sampled due to water eroding the alteration material. These samples returned: 918 ppb gold and 3.5 ^{11.66} ppm silver over one metre; and 407 ppb gold and 0.34 oz/ton silver over 0.5 metre.

Trench T-85-4 (Figure 22) cut a zone of weak alteration located about 100 metres east of the above trenches. The chip sampling did not outline any significant enrichment in gold or silver.

brown, pinkish-gray groundmass

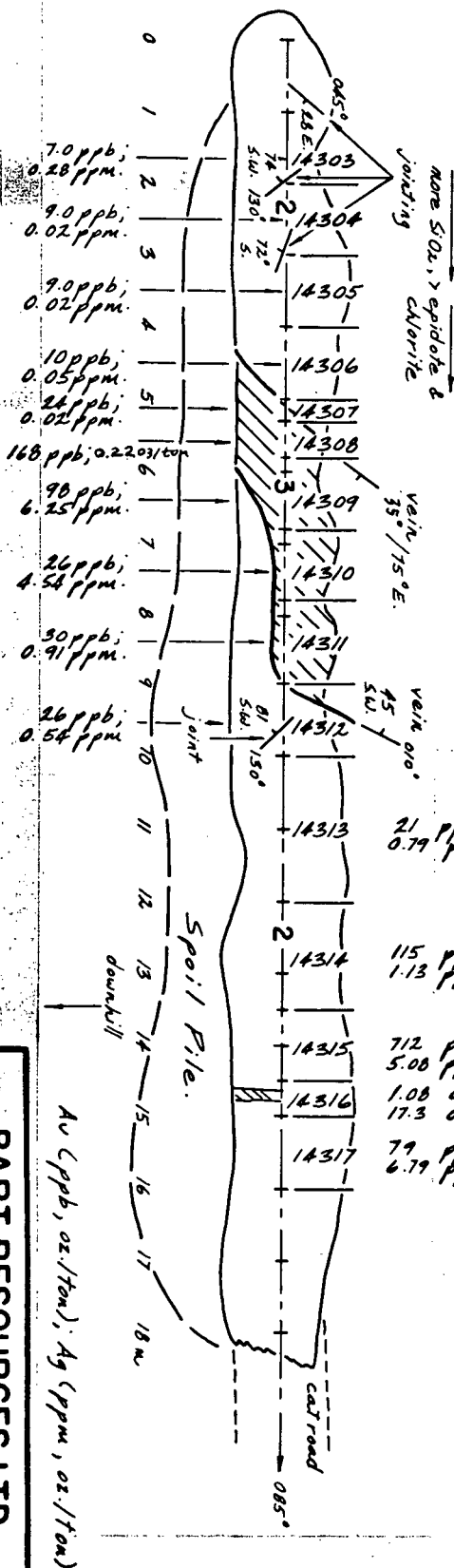
limonitic, leached & weakly silicified trachyandesite porphyry, feldspars pink, euhedral & subhedral to 3 mm., some altered to clay mineral (white) minor barite, hematite to 3-4% soft crystalline blebs.

greyish-green groundmass still limonitic, some epidote, trace specular hematite, minor quartz stringers (1-3 mm wide), limonitic with drusy quartz in centre.

green groundmass, whitish-pink feldspars; limonite & hematite, > silica-rich.

clay with quartz & barite chips.

silicified wall rock under the clay feldspars replaced with quartz, limonitic.



- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

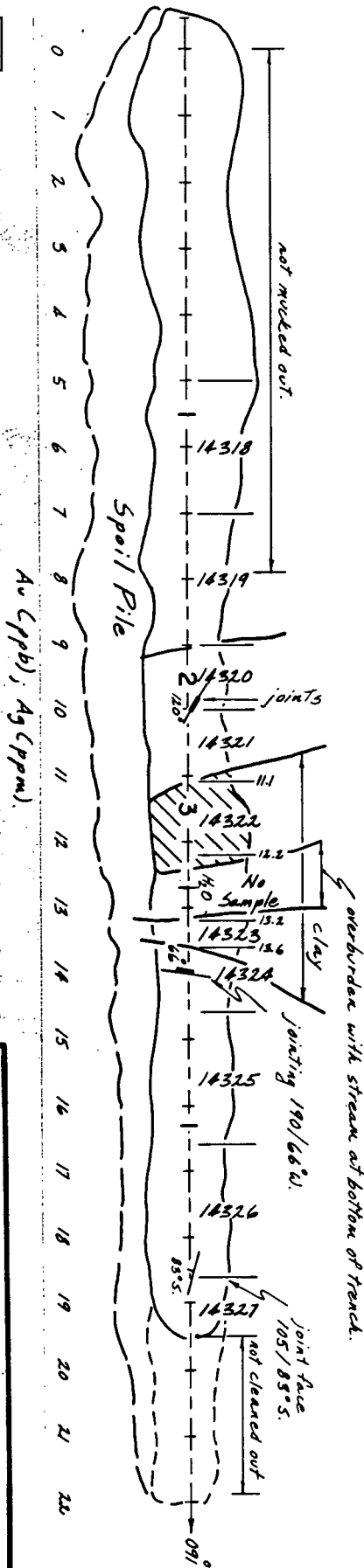
BART RESOURCES LTD.

TRENCH - 85-2

| | | | |
|---------|------------|-----------------|-----------|
| DATE | SEPT./1985 | NTS | 94 E/6 W |
| PROJECT | 8C-85-4 | MAPPED/DRAWN BY | G.W./T.M. |
| SCALE | 1:100 | | |

TAIGA CONSULTANTS LTD. FIG. 20

- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-Feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.



moderately silicified Trachyandesite porphyry with small 1-2 mm quartz veinlets. v. limonitic.
8.0 ppb; .96 ppm.

as before, but up to 10% limonite + 5% hematite.
53 ppb; .55 ppm.

silicified, > veinlets in trachyandesite
6.0 ppb; 1.1 ppm.

propylitic alterations & quartz veinlets (stockwork) 13 ppb; 1.25 ppm.

white-yellow clay with vuggy quartz chips to 3 cm in diameter. 918 ppb; 3.5 ppm.

No Sample.

407 ppb; 0.34 oz/ton

limonitic trachyandesite porphyry.
22 ppb; 3.4 ppm.

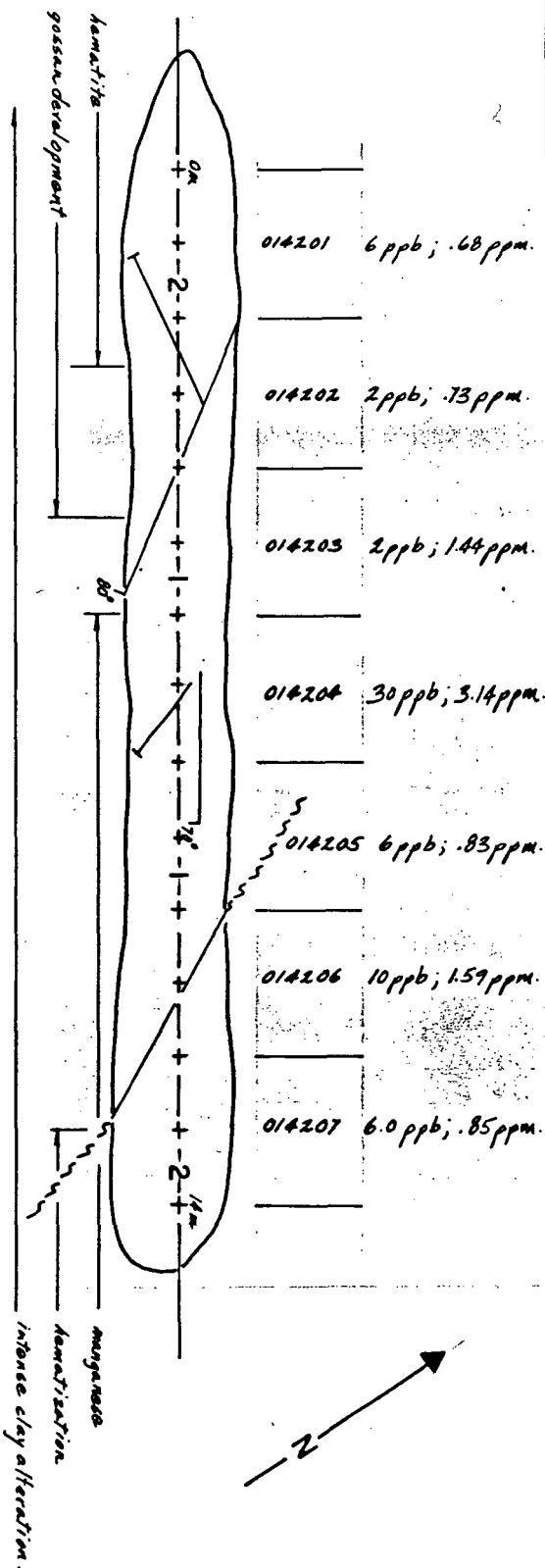
limonitic trachyandesite porphyry.
3.0 ppb; .37 ppm.

propylitically altered groundmass, but pink euhedral feldspar to 4 mm.
7.0 ppb; .08 ppm.

38 ppb; 6.68 ppm.



| | |
|--------------------------------|----------------------|
| BART RESOURCES LTD. | |
| TRENCH - 85-3 | |
| DATE SEPT./1985 | NTS 94 E/6 W |
| PROJECT BC-85-4 | MAPPED/DRAWN BY G.W. |
| SCALE 1:100 | 0 1 2 3m |
| TAIGA CONSULTANTS LTD. FIG. 21 | |



- 1 Trachyte Unit: K-feldspar porphyry; quartz K-feldspar porphyry; epidote-bearing flows, minor pyroclastics.
- 2 Silicified K-feldspar Porphyry: silicified equivalent to (1); some rhyolite (quartz feldspar porphyry); intense siliceous alteration; widespread pyrite mineralization; gossan development (weak); minor Cu mineralization; 2a hornblende-feldspar porphyry.
- 3 Quartz and/or Quartz-Barite Zone: intense siliceous alteration; quartz breccia, quartz stockwork, quartz-barite vein development; disseminated Py, occurring where fracturing is intense.

| | |
|---|------------|
| BART RESOURCES LTD. | |
| TRENCH - 85-4 | |
| DATE | SEPT./1985 |
| PROJECT | BC-85-4 |
| SCALE | 1:100 |
| MAPPED/DRAWN BY NTS 94 E/6 W G.W. | |
| TAIGA CONSULTANTS LTD. FIG. 22 | |

GEOCHEMISTRYSampling and Analytical Procedures

A total of 954 soil samples were collected at 25-metre stations on regularly spaced lines. The results are presented on Maps 4, 5, 6, and 7. The grid density was selected to test various sectors of the property for the applicability of the soil sampling procedure. Grids were marked by the regular placement of lath pickets, with the intervals between sample sites controlled by topofil chaining. This procedure has disadvantages of poor horizontal control and the lack of slope correction, but has the advantage of being a one-man operation which increases the productivity on reconnaissance grid coverage. The regular use of lath pickets enables the easy recovery of anomalous sites in the future, by writing the grid coordinates on the laths with carpenter pencil.

Samples were collected mainly from the B-horizon soils or till material. Some of the areas with steep slopes lack soil development; from these areas, talus fines and poorly developed soils were collected whenever possible.

The soil samples were field dried prior to shipping to TerraMin Research Labs Ltd. in Calgary, Alberta. After final drying, the samples were sieved to the -80 mesh fraction, and a 25-gram aliquot was analyzed for gold and silver by standard fire assay-atomic absorption technique.

In a certain number of samples, insufficient -80 mesh material was present. These samples were analyzed by taking a -40 mesh fraction. Sample pulps and the +80 mesh fraction for the samples are at present in storage with the laboratory.

Analytical Results

No statistical treatment of the analytical data has been completed for this sample population. Considerable previous work in the region has established the following values to be significant:

| | <u>Au ppb</u> | <u>Ag ppm</u> |
|--------------------|---------------|---------------|
| Threshold | 20 | 0.5 |
| Elevated | 50 | 1.0 |
| Anomalous | 100 | 5.0 |
| Strongly Anomalous | 1000 | 10.0 |

The use of precise statistical cut-offs for soil surveys does not take into account the variability of the sample mediums collected, the thickness of till cover, or dispersion of values downslope. The contour intervals used above display the metal-enriched areas well without eliminating data that could be significant.

The geochemical anomalies developed indicate the presence of high gold trends without significant silver, high silver trends without significant gold, and trends enriched in both metals. The surveys clearly identified known mineralized zones and outlined new areas requiring further detailed evaluation.

The variance of Au and Ag levels should not be considered as evidence of any particular level within an epithermal vein system or systems, but may reflect different ages of mineralized systems or a considerable diversity in the mineralizing fluids.

The vein systems being explored on the north end of the Mets claims (Manson Creek Resources news releases) are apparently gold-bearing without significant silver values. The veins previously explored by Lacana on the Ridge Zone were gold-bearing veins with elevated silver values. Veins trenched in the north-central portion of the property this year (T-85-1 to T-85-3) returned high gold values with high silver values more characteristic of values present on the SEREM property. The following are selected anomalies requiring further evaluation.

"C" Grid (Map 4 - gold; Map 5 - silver)

'A' anomaly centres on L.10S/12W. This anomaly coincides with a number of vein systems which trend downslope from the Mets property. The anomalous responses are characterized by both high gold (maximum 4640 ppb) and high silver (maximum 25 ppm) values. The anomaly is open to the south and is currently outlined over a minimum strike length of 500 metres on the Metsantan property. This forms the best unexplored geochemical target on the property. Soil sampling completed on the Mets property confirmed the continuation of the anomaly to the Mets boundary (Appendix).

'B' anomaly centres on L.16S/7W and relates to the Ridge Zone and the Central Silver Zone.

'C' and 'D' anomalies centre on L.11S/5W and have both elevated gold and silver values. The area has not been completely sampled due to steep slopes. Further investigation of these anomalies could be completed in part by backhoe trenching.

'E' anomaly centres on L.13S/4W, with gold responses without silver values. The presence on steep slopes will require careful investigation regarding the source.

'F' anomaly was established by three sample sites on one line centering on L.10S/24W. The anomaly is characterized by high gold values without anomalous silver responses.

Other Anomalies

It is recommended that all isolated gold responses in excess of 100 ppb and any silver responses in excess of 5 ppm should be further ground investigated.

"A" Grid (Maps 6 and 7)

No gold-in-soil anomalies were obtained. Elevated gold values were obtained from some isolated sites. Elevated silver values are present in several trends which should be explored to the south by further grid sampling.

"B" Grid (Maps 6 and 7)

Two reconnaissance lines were completed with no anomalous gold values obtained. An open area of elevated silver values was obtained on the west end of L.4. Further grid geochemical coverage should be completed in the lower elevations to the north, tying to the "A" Grid and to the south of the property boundary.

CONCLUSIONS

1. The gold values on the Ridge Zone were confirmed by selective re-sampling of some of the Lacana trenches.
2. Elevated gold and silver values were established in vein systems reflecting northern extensions of the Ridge Zone structures, which have a minimum strike length of 600 metres.
3. Trenches on the north end of the Metsantan claims encountered high-grade gold and silver mineralization over a narrow width (1.08 oz/ton gold and 17.3 oz/ton silver over 0.5 metre). Several vein systems were identified in this region which are reflected in anomalous gold and silver-in-soil values. The soil geochemistry indicates these targets to have a minimum strike length of 500 metres and that the anomalies are open to the south.
4. Other soil geochemical anomalies were located which will require further detailed evaluations. The use of grid soil geochemistry has been confirmed as a useful auxilliary exploration procedure to prospecting and geological mapping for locating exploration targets.
5. Two vein systems which returned high-grade values from grab samples were located during geological evaluations. Both sites are on the "C" Grid with coordinates and best-analyses as follows:

| <u>Sample</u> | <u>Coordinates</u> | <u>Au</u> | <u>Ag</u> |
|---------------|--------------------|------------------------------|--------------------------|
| RKN-3 | 7+75W/7+25W | 12,300 ppb (0.359 oz/ton) | 380 ppm (11.1 oz/ton) |
| GW-MT-09 | 13+25S/2+50W | 2.12 oz/ton | 1.14 ppm |

The location of the vein from which RKN-3 was collected is close to the southeast corner of the Mets 1 claim and may not be on the Bart property. However, the structure would strike onto the Bart property in a short distance.

6. Other veins and alteration zones returned elevated gold and silver values. Additional sampling and evaluation should be considered.

RECOMMENDATIONS

1. Grid geochemistry should be considered for the following areas:
 - (a) the western portion of the Metsantan 8 claim, tying on to the "A" and "B" Grids.
 - (b) the Metsantan 7 claim, especially in proximity to the elevated gold values in stream sediment samples collected by Lacana.
 - (c) the southern portion of the Metsantan 3, 4, and 5 claims, continuing the "C" Grid coverage south.
 - (d) the southeastern portion of the Metsantan 1 claim, in the area in which a clay alteration zone is present.
2. Systematic detailed soil geochemistry, geological mapping, and trenching should be considered to evaluate the vein systems and alteration zones for which elevated precious metals values are present. The same procedures should be used to explore soil anomalies outlined to date.
3. Any drill testing of the Ridge Zone should await the results of investigations of Anomaly 'A' as this area could be a better exploration target than the Ridge Zone.
4. Provision should be made for additional backhoe trenching, especially of Anomaly 'A' and other zones accessible to a tracked backhoe. The 'A' anomaly can best be investigated by cutting cat roads due to the steep terrain.
5. Due to the short exploration season, it is imperative that grid geochemistry be conducted as soon as snow conditions permit in late June. The backhoe trenching can commence in July except for north-facing slopes. Drilling should commence no later than mid-August to take advantage of the better weather conditions. Due to fog and cloud conditions often present in the early fall, any drilling of the Ridge Zone should be commenced during good weather. These same problems do not hold for any targets developed at lower elevations.

RECOMMENDED EXPLORATION BUDGETPhase I

| | |
|---|---------------------------|
| Grid: 20 km geochemical surveys and geological coverage | \$ 40,000 |
| Backhoe trenching: provision for 400 metres of new trenching, cleaning, sampling, and reclamation | 15,000 |
| Diamond drilling: 500 metres, with camp support, supervision, and assays. | <u>125,000</u> |
| | \$ 180,000 |
| Contingency Allowance | <u>20,000</u> |
| | PHASE I <u>\$ 200,000</u> |

Phase II

| | |
|--|----------------------------|
| Follow-up drilling and backhoe trenching, based on definition of further targets and the need for further drilling to continue exploration of existing targets. | PHASE II <u>\$ 200,000</u> |
|--|----------------------------|

BIBLIOGRAPHY

Diakow, L.J.; Panteleyev, A.; Schroeter, T.G. (1985): Geology of the Toodoggone River Area, NTS 94E; B.C. Energy Mines, Prelim Map 61.

Gabrielse, H. (1977): Geology of the Toodoggone and Ware Map-Areas, British Columbia (94E, 94E w¹/₂); Geol.Surv.Cda., Open File 483.

Schroeter, T.G. (1985): Toodoggone River Area (94E); in Geological Field-work 1984; B.C. Energy Mines, Paper 1985-1, pp.291-298.

Various Maps

supplied from Lacana's files:

Mar. 80 - Copper and Molybdenum in Silt and Compilation Map
- Lead and Zinc in Silt and Compilation Map

Oct. 80 - Metsantan Rock Grid, Au and Ag Geochemistry
- Legal Survey Plat

Oct. 81 - North Rock Grid Geochemistry and Geology
- Au and Ag in Rock, Geology and Alteration (3 sheets)

Nov. 81 - Silt Geochemistry Ag and Au

Dec. 81 - Toodoggone Gold District Geology, Claim Status and Mineralization

Apr. 82 - Mineral Zones and Cross Sectional Grid
- Cross Section M-N
- Cross Section I-J

Sep. 82 - Geology, Mineral Zones, and Geochemistry

A P P E N D I X I

Rock Sample Descriptions

ROCK SAMPLE DESCRIPTIONS

| | | |
|-------------------|---------|---|
| GW-MT-01 | outcrop | silicified trachyte, disseminated pyrite to 1%. |
| GW-MT-02 | boulder | quartz, subrounded; collected from a quartz-boulder train on Metsantan 1; no visible sulphides. |
| GW-MT-03 | boulder | quartz; limonitic; collected from the same boulder train as GW-MT-02; weathered pyrite to 2% noted throughout sample. |
| GW-MT-04 | outcrop | silicified trachyte with disseminated pyrite, galena, and very minor sphalerite; collected on Metsantan 1. |
| GW-MT-05 | outcrop | silicified andesitic tuff; red altered and pyritic disseminated to 2%. |
| GW-MT-06 | outcrop | well silicified trachyte; red altered and pyritic to 2% disseminated throughout. |
| Lacana T.82-13 | grab | sample of quartz-barite in fresh form |

"A" Grid

| | | |
|-------------|---------|---|
| 9+00S/1+50W | outcrop | rust altered limonitic quartz with disseminated pyrite to 2%. |
| 9+00S/2+75W | boulder | white to rusty quartz, no visible sulphides. |

"B" Grid

| | | |
|--------------------|---------|--|
| 4+00S/3+00W | boulder | silicified trachyte; disseminated pyrite to 1%. |
| 4+00S/3+75W (A) | outcrop | silicified trachyte with narrow quartz-pyrite veinlets and stringers developed through intensely fractured sections. |
| 4+00S/3+75W (B) | outcrop | 10 cm wide quartz stringer hosting abundant malachite stain along fractured surfaces. |
| 4+00S/6+75W | boulder | silicified trachy-andesite; fractured, limonitic, visible pyrite to 2%. |

"C" Grid

| | | |
|--------------|---------|---|
| 8+00S/8+00W | outcrop | silicified, limonitic trachyte; disseminated pyrite to 2% noted throughout. |
| 16+00S/6+50W | outcrop | rust altered quartz stringer, disseminated pyrite to 1%. |
| 20+00S/8+50W | boulder | limonitic quartz, trace galena, diss Py to 1%. |
| 20+00S/8+75W | boulder | white unaltered quartz, from a short quartz-abundant boulder train. |

- RKN-1 18"x10" angular quartz float in till on Metsantan ridge; drusy, vuggy, limonitic, minor amethystine quartz, approx. ½% very fine-grained disseminated pyrite.
- RKN-2 frost boil with quartz stringers (strike 175°, dip 66°W) in outcrop of heavily altered, red, pyritic trachy-andesite.
- RKN-3 wallrock sample of pyritic trachy-andesite at RKN-2 outcrop; siliceous veining.
- RKN-4 soil sample from frost boil at RKN-2.
- RKN-5 outcrop, white and green clay minerals in siliceous shear zone (strike 145°, dip 85°W), minor barite, very limonitic.
- RKN-6 trachy-andesite, silicified, hematitic, limonitic, 1% very fine-grained pyrite, minor barite as blebs to 1 cm.
- TM-200 on cliff edge; quartz-eye andesite, sheared, banded, limonitic; alternating layers of limonitic and pink silicified andesite; approx 10% clay minerals as phenocrysts in the pink andesite; minor epidote and MnO₂ dendrites.
- TM-201 approx 6 m north of TM-200; quartz-barite vein 10-12 feet thick, striking 090°, dipping 51°S into hill; limonite, jarosite, approx 1% very fine-grained disseminated pyrite.
- TM-202 float; quartz, calcite, limonite, hematite.
- M-BT-8 Epidote-altered volcanic, minor open quartz stringers.
- M-BT-9 Silicified Toodoggone Volcanics.
- M-BT-10 Bleached volcanic with some open vuggy fractures lined with quartz.

A P P E N D I X I I

Analytical Techniques

THE DETERMINATION OF GOLD

BACKGROUND: Fire assaying is an ancient form of quantitative chemical analysis in which metals are determined in ores and metallurgical products by extracting and weighing them in the metallic state. The methods employed involve slag-melting temperatures and the use of reducing, oxidizing, and fluxing reagents. At present, the technique is used principally to preconcentrate the noble metals - Ag, Au, Ir, Os, Pd, Pt, Rh, Ru - from ores or metallurgical products.

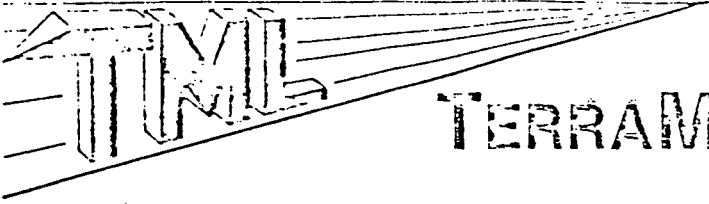
The process consists in the production of two liquids - a complex liquid borosilicate slag and a liquid lead phase of controlled size containing the valuable metals. The two liquids separate from each other by reason of the great difference in specific gravity and the high degree of solubility of the noble metals in molten metallic lead. The noble metals are subsequently separated from the lead by a carefully controlled oxidizing fusion whereby the lead is removed as lead oxide in a porous vessel (cupel). The metallic bead remaining is then analysed for the noble metals.

The standard flux or charge consists of litharge, soda, flour and borax. Litharge, or lead oxide (PbO), serves to furnish the lead which collects the precious metals, and also acts as an oxidizing and desulfurizing agent. Soda combines with the litharge to break down silica and alumina. Flour is known as a reducing agent, which reduces lead from litharge to yield the button with the precious metals. Borax glass is an acid flux which dissolves or fuses the basic and acidic constituents of the gangue, which facilitates slagging of the ore.

FA/AA DETERMINATION OF GOLD:

The procedure followed by Barringer Laboratories utilizes a one assay-ton (29.16 gram) of material. This is mixed with the standard charge and an aliquot of known concentration of palladium. The palladium acts as an inquant to enhance the collection of trace amounts of gold. Following cupellation, the bead is completely dissolved in aqua regia. The gold is extracted into methyl isobutyl ketone (MIBK) and subsequently analysed by atomic absorption spectrophotometry (A.A.S.). A detection limit of 2 ppb is achieved.

Silver may be determined by direct aspiration of the solution by A.A.S. prior to the extraction stage. This detection limit for silver is 10 ppb.



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SAMPLE PREPARATION

Soil and sediment samples are dried and sieved to -80 mesh (approx. 200 micron).

Rock Samples:

The entire sample is crushed to approx. 1/8" maximum, and split divided to obtain a representative portion which is pulverized to -200 mesh (approx 90 micron).

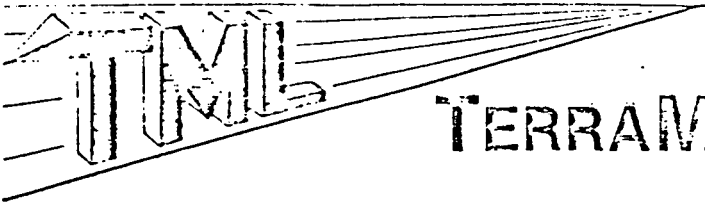


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FIRE ASSAY/AA METHOD FOR GOLD AND SILVER PLATINUM AND PALLADIUM

Approximately 1 assay ton of prepared sample is fused with a litharge flux charge to obtain a lead button. The button is cupelled down to a precious metal prill which is then dissolved in aqua regia. The resulting solution is analysed by atomic absorption spectrophotometry to determine the precious metals.



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ANALYTICAL METHOD FOR GOLD AND SILVER

Approximately 1 assay ton of prepared sample is fused with a litharge/flux charge to obtain a lead button. The lead button is cupelled to obtain a prill. The prill is dissolved in nitric/hydrochloric acids (aqua regia), and the resulting solution is analysed by atomic absorption spectroscopy.



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Preparation Procedures for Geochemical Samples

1 - Soil And Silts:

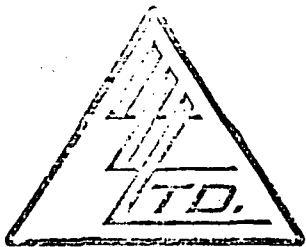
- a) The soil sample bags are placed in dryer to dry at 105°C.
- b) Each sample is passed through an 80 mesh nylon seive. The +80 mesh material is discarded.
- c) The -80 mesh sample is placed into a coin envelope and delivered to the laboratory for analysis.

2 - Lake Sediments:

- a) The sediment sample bags are placed into the dryer at 105°C until dry.
- b) The dried material is transferred to a ring and puck pulverizer and ground to -200 mesh.
- c) The -200 mesh pulp is then rolled for mixing, placed into a coin envelope, and taken to the laboratory for analysis.

3 - Rocks and Cores:

- a) The samples are dried in aluminum disposable pans at 105°C.
- b) They are then crushed to 1/8" in jaw crusher.
- c) the 1/8" material is mixed and split to sample pulp size.
- d) The sample is then pulverized to 100 mesh, using a ring and puck pulverizer.
- e) The -100 mesh material is rolled on rolling mat and transferred to sample bag. The sample is then sent to the laboratory for analysis.



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Au Geochems (Soils & Sediments)

*-1

1. Weigh 10 g sample to fire assay crucible (carry blank)
 2. Place crucibles in fire assay furnace at fusion temperature for 15 minutes.
 3. Allow crucibles to cool on steel table.
 4. Add 1 tablespoon flux and 1 in quart to each crucible.
 5. Fuse for $\frac{1}{2}$ hr. at fusion temperature.
 6. Pour pots, remove slag and cupel.
 7. Place beads into 50 ml flasks.
 8. Pipette stds. and blank into 50 ml flasks.
1 ml of 10 ppm = 1000 ppb
1 ml of 5 ppm = 500
1 ml of 1 ppm = 100
0 ml = 0
 9. Add 5 mls H₂O, 2 mls HNO₃ and place on 1 switch plate for 5 minutes. Take off plate. Add 5 mls HCl.
 10. Digest until total dissolution approximately $\frac{1}{2}$ hr.
 11. Bulk flasks to approximately 25 mls with distilled H₂O. Cool to room temperature.
 12. Add 5 mls MIBK. Stopper and shake each flask for exactly 1 minute. *-2
 13. Allow MIBK to settle.
 14. Set 1100 AA unit as follows:
mu - 2428
slit - .5
lamp MA - 3
flame - air-acetylene - extremely lean
- Stds.: 100 ppb - 10
1000 ppb - 100
500 ppb - reading

15. Report directly in ppb. Detection limit 5 ppb at reading of .5.

*-1 - for rock geochems steps 2 and 3 can be eliminated.

*-2 - it is important to maintain as closely as possible standard conditions for all samples and standards in a series.

Reagents & Material

- MIBK - 4-Methyl-2-Pentanone
- HCl - conc
- HNO3 - conc
- Flux - 2980 g PbO
777 g Na2CO3
68 g Na2B4O7
68 g SiO2
167 g Flour

A P P E N D I X I I I

Certificates of Analysis



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AUTHORITY: R. NETOLITZKY

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CALGARY, ALBERTA

ATTN: R. NETOLITZKY

WORK ORDER: 8219D-85

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

| S A M P L E N U M B E R | FIRE ASSAY | | FIRE ASSAY | |
|-------------------------|------------|--------------|------------|--------------|
| | AU PPB | AU OZ/TON | AG PPM | AG OZ/TON |
| GW-MT :2 | 49.0 | NA | 0.3 | NA |
| GW-MT :3 | 15.0 | NA | <0.02 | NA |
| GW-MT :4 | 18.0 | NA | <0.02 | NA |
| GW-MT :5 | 552.0 | NA | 2.13 | NA |
| GW-MT :6 | 12.0 | NA | 0.6 | NA |
| | | | | |
| 8+00S :8+00 W A-Grid | 17.0 | NA | 0.52 | NA |
| 9+00S :2+25 W " | 9.0 | NA | <0.02 | NA |
| 9+00S :1+50 W " | 6.0 | NA | <0.02 | NA |
| 16+00S:6+50 W c-Grid | 1520.0 | NA | 2.24 | NA |
| 20+00S:8+50 W " | 30.0 | NA | <0.02 | NA |
| | | | | |
| 20+00S:8+75 W " | 12.0 | NA | <0.02 | NA |
| TR-82 :13 | NA | 0.95 | NA | 0.36 |
| TR-82 :17 | 184.0 | NA | NA | 0.31 |
| T-85 :6 | 41.0 | NA | 5.05 | NA |
| TR-10 :014365 | 122.0 | NA | 1.68 | NA |
| | | | | |
| 4+00S :3+00 W B-Grid | 33.0 | NA | NA | 0.23 |
| 4+00S :3+75 W "A" " | 106.0 | NA | 0.44 | NA |
| 4+00S :3+75 W "B" " | 2.0 | NA | 1.87 | NA |
| 4+00S :6+75 W " | NA | 0.03 | NA | 3.0 |
| TR85-1:14301 | 212.0 | NA | NA | 0.32 |
| | | | | |
| TR85-1:14302 | 21.0 | NA | 2.05 | NA |
| TR85-2:14303 | 7.0 | NA | 0.28 | NA |
| TR85-2:14304 | 9.0 | NA | 0.02 | NA |
| TR85-2:14305 | 9.0 | NA | <0.02 | NA |
| TR85-2:14306 | 10.0 | NA | 0.05 | NA |
| | | | | |
| TR85-2:14307 | 24.0 | NA | <0.02 | NA |
| TR85-2:14308 | 168.0 | NA | NA | 0.22 |
| TR85-2:14309 | 98.0 | NA | 6.25 | NA |
| TR85-2:14310 | 26.0 | NA | 4.54 | NA |
| TR85-2:14311 | 30.0 | NA | 0.91 | NA |



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AUTHORITY: R. NETOLITZKY

TAIGA CONSULTANTS LTD.
 100, 1300-8 STREET S.W.
 CALGARY, ALBERTA
 ATTN: R. NETOLITZKY

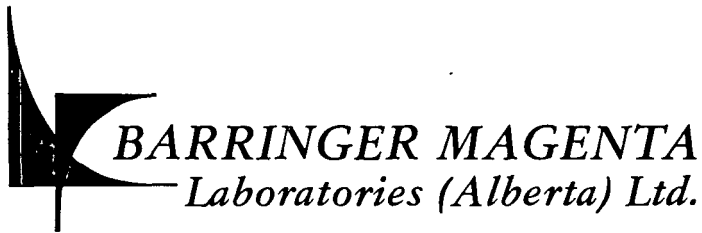
WORK ORDER: 82190-85

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

| S A M P L E N U M B E R | FIRE ASSAY | FIRE ASSAY | FIRE ASSAY | FIRE ASSAY |
|-------------------------|------------|--------------|------------|--------------|
| | AU PPB | AU OZ/TON | AG PPM | AG OZ/TON |
| TR85-2:14312 | 26.0 | NA | 0.54 | NA |
| TR85-2:14313 | 21.0 | NA | 0.79 | NA |
| TR85-2:14314 | 115.0 | NA | 1.13 | NA |
| TR85-2:14315 | 712.0 | NA | 5.08 | NA |
| TR85-2:14316 | NA | 1.08 | NA | 17.3 |
| TR85-2:14317 | 79.0 | NA | 6.79 | NA |
| TR85-3:14318 | 8.0 | NA | 0.96 | NA |
| TR85-3:14319 | 33.0 | NA | 0.55 | NA |
| TR85-3:14320 | 6.0 | NA | 1.1 | NA |
| TR85-3:14321 | 13.0 | NA | 1.23 | NA |
| TR85-3:14322 | 919.0 | NA | NA | 1.1 |
| TR85-3:14323 | 407.0 | NA | NA | 0.34 |
| TR85-3:14324 | 22.0 | NA | 3.4 | NA |
| TR85-3:14325 | 3.0 | NA | 0.37 | NA |
| TR85-3:14326 | 7.0 | NA | 0.08 | NA |
| TR85-3:14327 | 38.0 | NA | 6.53 | NA |
| TR85-4:14201 | 6.0 | NA | 0.68 | NA |
| TR85-4:14202 | 2.0 | NA | 0.73 | NA |
| TR85-4:14203 | 2.0 | NA | 1.44 | NA |
| TR85-4:14204 | 30.0 | NA | 3.14 | NA |
| TR85-4:14205 | 6.0 | NA | 0.83 | NA |
| TR85-4:14206 | 10.0 | NA | 1.59 | NA |
| TR85-4:14207 | 6.0 | NA | 0.85 | NA |



4200B - 10 STREET N.E.
CALGARY, ALBERTA
T2E 6K3
PHONE: (403) 250-1901

30-SEP-85
PAGE: 3 OF 3
COPY: 3 OF 3
C O P Y

AUTHORITY: R. NETOLITZKY

TAIGA CONSULTANTS LTD.
100, 1300-8 STREET S.W.
CALGARY, ALBERTA

ATTN: R. NETOLITZKY

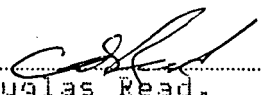
WORK ORDER: 8219D-85

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

| SAMPLE NUMBER | TOTAL BA % |
|---------------|------------------|
| I-85 :6 | 0.01 |
| TR-82 :13 | 0.92 |

SIGNED: 
C. Douglas Read,
LABORATORY MANAGER

ORIGINAL TO:
BART RESOURCES LTD.
VANCOUVER, B.C. V7Y 1R6
R. BIEBAR

FOOTNOTES:
P=QUESTIONABLE PRECISION; * =INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE



4200B - 10 STREET N.E.
 CALGARY, ALBERTA
 T2E 6K3
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30-SEP-85
 PAGE: 1 OF 1
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AUTHORITY: R. NETOLITZKY

TAIGA CONSULTANTS LTD.
 100, 1300-8 ST. S.W.
 CALGARY, ALBERTA
 ATTN: R. NETOLITZKY

WORK ORDER: 82290-85

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

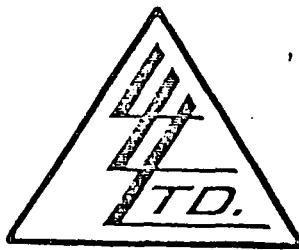
| S A M P L E N U M B E R | FIRE ASSAY | FIRE ASSAY | FIRE ASSAY | FIRE ASSAY |
|-------------------------|------------|--------------|------------|--------------|
| | AU PPB | AU OZ/TON | AG PPM | AG OZ/TON |
| L 4 S:5+00 W | 17.0 | NA | NA | 1.36 |
| 6 W NT:07 | 89.0 | NA | <0.02 | NA |
| 6 W NT:08 | 352.0 | NA | 0.24 | NA |
| 6 W NT:09 | NA | 2.12 | 1.14 | NA |

SIGNED: *C. Douglas Read*
 C. Douglas Read,
 LABORATORY MANAGER

ORIGINAL TO:
 BART RESOURCES LTD.
 VANCOUVER, B.C. V7Y 1B6
 R. BIEBAR

FOOTNOTES:
 P=QUESTIONABLE PRECISION; *=-INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
 IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE

To: BART RESOURCES LTD
 #1701, 701 West Georgia
 Vancouver, B.C., V7Y 1B6
 Attn: Ron Bieber
 cc: Ron Netolitzky - Taiga



File No. 27821
 Date September 5, 1985
 Samples Rock
 PROJECT BC-85-4
 METSANTAN

Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 1

| SAMPLE No. | OZ./TON GOLD | OZ./TON SILVER |
|---------------------|-----------------|-------------------|
| <u>Rock Samples</u> | | |
| 014101 | .024 | .18 |
| 02 | .102 | .14 |
| 03 | .220 | .22 |
| 04 | .552 | .58 |
| 014105 | .536 | .20 |
| 06 | .030 | .12 |
| 07 | .012 | .24 |
| 08 | .012 | Trace |
| 09 | .006 | Trace |
| 014110 | .004 | Trace |
| 11 | .002 | .10 |
| 12 | .002 | .02 |
| 13 | .022 | Trace |
| 14 | .870 | .46 |
| 014115 | .406 | .10 |
| 16 | .156 | .02 |
| 17 | .204 | .14 |
| 18 | .310 | .22 |
| 19 | .108 | .40 |
| 014120 | .082 | .16 |
| 21 | .094 | .30 |
| 22 | .066 | .40 |
| 23 | .138 | .64 |
| 24 | .012 | .04 |
| 014125 | Trace | .02 |
| 26 | .012 | .10 |
| 27 | .042 | .34 |
| 014128 | .004 | .08 |

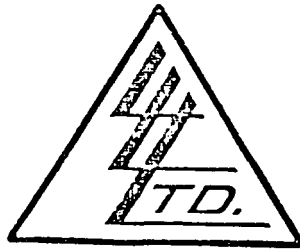
I *Hereby Certify* THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.

Pulps Retained one month
 unless specific arrangements
 made in advance.

Ron Bieber

To: BART RESOURCES LTD
 #1701, 701 West Georgia
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 Attn: Ron Bieber
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File No. 27821
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 Samples Rock
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Page # 2

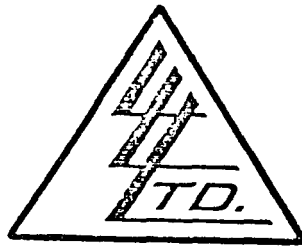
| SAMPLE No. | OZ./TON GOLD | OZ./TON SILVER |
|------------|-----------------|-------------------|
| 014129 | .006 | .22 |
| 30 | .018 | .26 |
| 31 | .878 | .94 |
| 32 | .144 | .13 |
| 33 | .014 | .20 |
| 34 | .146 | .32 |
| 014135 | .378 | .46 |
| 36 | .286 | .31 |
| 37 | .204 | .22 |
| 38 | .344 | .29 |
| 39 | .866 | .60 |
| 014140 | .660 | 1.09 |
| 41 | .366 | .54 |
| 42 | .042 | .04 |
| 43 | .012 | Trace |
| 44 | .058 | Trace |
| 014145 | .002 | Trace |
| 46 | .012 | Trace |
| 47 | Trace | .06 |
| 48 | .002 | Trace |
| 49 | Trace | .10 |
| 014150 | Trace | Trace |
| 51 | .014 | Trace |
| 52 | .008 | Trace |
| 53 | .006 | Trace |
| 54 | .022 | Trace |
| 014155 | .004 | Trace |
| 56 | .024 | .14 |
| 57 | .054 | Trace |
| 58 | .010 | .04 |
| 014159 | .026 | Trace |

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

R. Bieber
 Assayer

To: BART RESOURCES LTD
 #1701, 701 West Georgia
 Vancouver, B.C., V7Y 1B6
 Attn: Ron Bieber
 cc: Ron Netolitzky - Taiga



File No. 27821
 Date September 5, 1985
 Samples Rock
 PROJECT BC-85-4
 METSANTAN

Certificate of
ASSAY of
LORING LABORATORIES LTD.

Page # 3

| SAMPLE No. | OZ./TON GOLD | OZ./TON SILVER |
|------------|-----------------|-------------------|
| | | |
| 014160 | .058 | .06 |
| 61 | .050 | .02 |
| 62 | Trace | .20 |
| 63 | Trace | Trace |
| 64 | Trace | Trace |
| 014165 | .016 | Trace |
| 70 | .012 | .04 |
| 78 | .018 | .40 |
| 89 | Trace | Trace |
| 014195 | .004 | .20 |

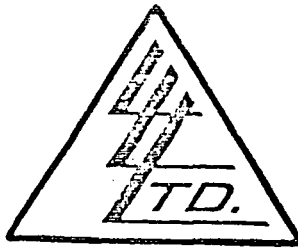
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.

Pulps Retained one month
 unless specific arrangements
 made in advance.

Rodriguez

To: BART RESOURCES LTD
 #1701, 701 West Georgia
 Vancouver, B.C., V7Y 1B6
 Attn: Ron Bieber
 cc: Ron Netolitzky - Taiga



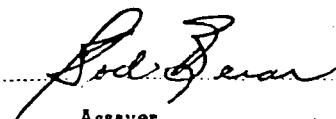
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 Date September 5, 1985
 Samples Rock
 PROJECT BC-85-4
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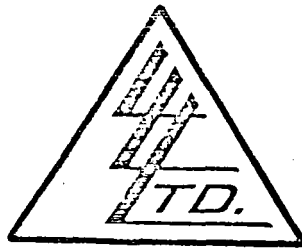
Page # 4

| SAMPLE No. | OZ./TON GOLD | OZ./TON SILVER |
|--|-----------------|-------------------|
| <p><u>ASSAYS</u></p> <p>005118</p> | <p>.664</p> | <p>5.81</p> |
| <p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p> | | |

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.


 Ron Bieber

To: BART RESOURCES LTD
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 Attn: Ron Bieber
 cc: Ron Netolitzky - Taiga



File No. 27821
 Date September 5, 1985
 Samples Rock
 PROJECT BC-85-4
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ASSAY

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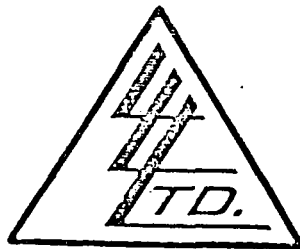
Page # 5

| SAMPLE No. | PPM Ag | PPB Au |
|---|-------------------------------|--------------------------------|
| <p><u>"Geochemical Analysis"</u></p> <p>005110 005118</p> | <p>5.4 +30</p> | <p>35 +1000</p> |
| <p>I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES</p> | | |

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

[Handwritten Signature]

To: BART RESOURCES
 #1701, 701 West Georgia
 Vancouver, B.C, V7Y 1B6
 Attn: Ron Bieber
 cc: Ron Netolitzky - Taiga



File No. 27815
 Date September 6, 1985
 Samples Rock
 PROJECT BC-85-4
 METSANTAN

Certificate of
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LORING LABORATORIES LTD.

Page # 1

| SAMPLE No. | OZ./TON GOLD | OZ./TON SILVER |
|---------------------|-----------------|-------------------|
| <u>Rock Samples</u> | | |
| 005101 | Trace | .04 |
| 102 | .004 | .36 |
| 103 | Trace | .04 |
| 104 | Trace | .22 |
| 005105 | .012 | .38 |
| 106 | .004 | .44 |
| 107 | .008 | .28 |
| 108 | .004 | .36 |
| 005109 | Trace | .16 |

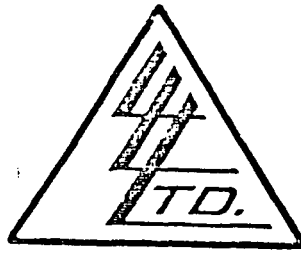
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

[Signature]

 R.

To: BART RESOURCES
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 Vancouver, B.C., V7Y 1B6
 Attn: Ron Bieber
 cc: Ron Netolitzky - Taiga



File No. 27815
 Date September 6, 1985
 Samples Rock
 PROJECT BC-85-4
 METSANTAN

Certificate of
ASSAY of

LORING LABORATORIES LTD.

Page # 2

| SAMPLE No. | PPM Ba |
|-------------------------------|-----------|
| <u>"Geochemical Analysis"</u> | |
| 005102 | 646 |
| 005104 | 107 |
| 005105 | 249 |
| 005106 | 147 |
| 005107 | 396 |
| 005108 | 168 |

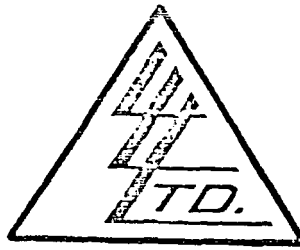
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
 Pulps Retained one month
 unless specific arrangements
 made in advance.

Paul J. [Signature]

RECEIVED SEP - 9 1985

To: BART RESOURCES
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Vancouver, B.C., V7Y 1B6
Attn: Ron Bieber
cc: Ron Netolitzky - Taiga



File No. 27821
Date September 6, 1985
Samples Rock

Certificate of
ASSAY
LORING LABORATORIES LTD.

| SAMPLE No. | PPM. Ba |
|------------|------------|
| 005110 | 86 |

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE
ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES

Rejects Retained one month.
Pulps Retained one month
unless specific arrangements
made in advance.

[Signature]



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-196

Bart Resources

Date Sept.8, 1985

Client Project Metsantan

Page 1/11

| Sample No. <u>Rock</u> | Au ppb | Ag ppb |
|---------------------------|-----------|-----------|
| T-85-6 0-2 m | 18 | 1480 |
| 2-4 | 44 | 3700 |
| 4-6 | 136 | 8000 |
| 6-8 | 40 | 2700 |
| 8-9 | 70 | 1180 |
| 9-10 | 26 | 1030 |
| 10-11 | 46 | 4100 |
| T-85-8 014377 | 10 | 1880 |
| 014378 | 12 | 2600 |
| 014379 | 2 | 4900 |
| 014380 | 28 | 6000 |
| 014381 | 30 | 9200 |
| 014382 | 62 | 11800 |
| 014383 | 70 | 7800 |
| T-85-10 014349 | 76 | 11200 |
| 014350 | 142 | 48000 |
| 014351 | 136 | 28000 |
| 014352 | 92 | 6200 |
| 014353 | 836 | 1250 |
| 014354 | 232 | 1140 |
| 014355 | 134 | 7500 |
| 014356 | 32 | 3200 |
| 014357 | 114 | 5500 |
| 014358 | 96 | 8700 |
| 014359 | 20 | 3200 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-196

Date

Client Project Metsantan

Page 2/11

| <u>Rock</u> | Sample No. | Au ppb | Ag ppb |
|-------------|------------|-----------|-----------|
| T-85-10 | 014360 | 34 | 5300 |
| | 014360 | 28 | 3600 |
| | 014362 | 6 | 2900 |
| | 014363 | 14 | 3100 |
| | 014364 | 16 | 2600 |
| | 014365 | 26 | 820 |
| | 014366 | 14 | 590 |
| | 014367 | 16 | 230 |



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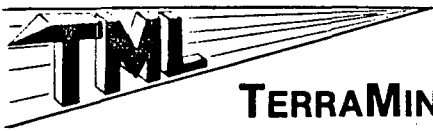
Job # 85-196

Date

Client Project Metsantan

Page 3/11

| Soil | Sample No. | Au ppb | Ag ppb |
|----------|------------|-----------|-----------|
| L 0+00 S | 2+00 W | 8 | 140 |
| | 1+75 | 4 | 210 |
| | 1+50 | 2 | 200 |
| | 1+25 | 2 | 190 |
| | 1+00 | 4 | 330 |
| | 0+75 | 4 | 120 |
| | 0+50 | 4 | 140 |
| | 0+25 | 62 | 320 |
| | 0+00 | 2 | 140 |
| | 0+25 E | 6 | 100 |
| | 0+50 | -2 | 240 |
| | 0+75 | 2 | 70 |
| | 1+00 | 4 | 100 |
| | 1+25 | 6 | 80 |
| | 1+50 | -2 | 80 |
| | 1+75 | 2 | 100 |
| | 2+00 | 6 | 130 |
| | 2+25 | 6 | 90 |
| | 2+50 | 4 | 150 |
| | 2+75 | 4 | 100 |
| | 3+00 | 6 | 160 |
| | 3+25 | 30 | 330 |
| | 3+50 | -2 | 100 |
| | 3+75 | 10 | 130 |
| | 4+00 | 26 | 190 |



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ANALYTICAL REPORT

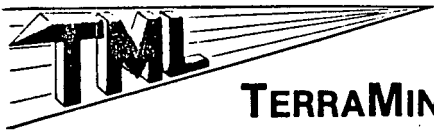
Job # 85-196

Date

Client Project Metsantan

Page 4/11

| Sample No. | Au | Ag |
|------------------|-----|------|
| <u>Soil</u> | ppb | ppb |
| L 0+00 S 4+25 E | -2 | 110 |
| 4+50 | 10 | 120 |
| 4+75 | 2 | 90 |
| 5+00 | -2 | 120 |
| L 4+00 S, 3+75 W | 2 | 170 |
| 3+50 | 12 | 230 |
| 3+25 | 8 | 220 |
| 3+00 | 28 | 230 |
| 2+75 | -2 | 210 |
| 2+50 | -2 | 280 |
| 2+25 | 6 | 330 |
| 2+00 | 4 | 190 |
| 1+75 | 84 | 240 |
| 1+50 | 14 | 860 |
| 1+25 | 28 | 210 |
| 1+00 | 8 | 240 |
| 0+75 | 22 | 1180 |
| 0+50 | 14 | 1120 |
| 0+25 | 16 | 200 |
| 0+00 | 10 | 170 |
| 0+25 E | 4 | 230 |
| 0+50 | 4 | 160 |
| 0+75 | 4 | 370 |
| 1+00 | 2 | 250 |
| 1+50 | 2 | 360 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-196

Date

Client Project Metsantan

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| <u>Soil</u> | Sample No. | Au ppb | Ag ppb |
|-------------|------------|-----------|-----------|
| L 4+00 S | 1+75 E | 2 | 180 |
| | 2+25 | -2 | 140 |
| | 2+50 | 2 | 160 |
| | 2+75 | -2 | 160 |
| | 3+00 | 14 | 200 |
| | 3+25 | 4 | 170 |
| | 3+50 | 4 | 170 |
| | 3+75 | 4 | 180 |
| | 4+00 | -2 | 120 |
| | 4+25 | 2 | 200 |
| | 4+50 | 4 | 210 |
| | 4+75 | 4 | 180 |
| | 5+00 | 2 | 200 |
| L 8+00 S | 7+50 W | 42 | 860 |
| | 7+25 | 32 | 4000 |
| | 7+00 | 32 | 980 |
| | 6+75 | 22 | 3700 |
| | 6+50 | 22 | 2100 |
| | 6+25 | 14 | 1120 |
| | 6+00 | 16 | 720 |
| | 5+75 | 16 | 1440 |
| | 5+50 | 2 | 270 |
| | 5+25 | 24 | 1130 |
| | 5+00 | 4 | 1100 |
| | 4+75 | 8 | 3100 |



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ANALYTICAL REPORT

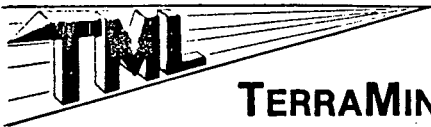
Job # 85-196

Date

Client Project Metsantan

Page 6/11

| Sample No. | Au | Ag |
|-----------------|-----|------|
| <u>Soil</u> | ppb | ppb |
| L 8+00 S 4+50 W | 4 | 340 |
| 4+25 | 6 | 710 |
| 4+00 | 2 | 280 |
| 3+75 | -2 | 200 |
| 3+50 | 12 | 250 |
| 3+25 | 6 | 190 |
| 3+00 | 4 | 340 |
| 2+75 | 6 | 520 |
| 2+50 | 34 | 1820 |
| 2+25 | 30 | 1010 |
| 2+00 | 8 | 210 |
| 1+75 | 4 | 400 |
| 1+50 | 32 | 230 |
| 1+25 | 4 | 450 |
| 1+00 | 32 | 170 |
| 0+75 | 8 | 620 |
| 0+50 | 14 | 540 |
| 0+25 | 6 | 170 |
| 0+00 | 2 | 110 |
| 0+25 E | 14 | 340 |
| 0+50 | 8 | 360 |
| 0+75 | 4 | 250 |
| 1+00 | 18 | 670 |
| 1+25 | 10 | 410 |
| 1+50 | 20 | 320 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-196

Date

Client Project Metsantan

Page 7/11

| Sample No. <u>Soil</u> | Au ppb | Ag ppb | |
|---------------------------|-----------|-----------|------------|
| L 8+00 S 1+75 E | 76 | 330 | |
| 2+00 | 12 | 370 | |
| 2+25 | 14 | 320 | |
| 2+50 | 14 | 430 | |
| 2+75 | 2 | 120 | |
| 3+00 | 4 | 430 | (-40 mesh) |
| 3+25 | 8 | 70 | (-40 mesh) |
| 3+50 | 2 | 170 | |
| 3+75 | 6 | 50 | |
| 4+00 | 10 | 50 | |
| 4+25 | 34 | 80 | |
| 4+50 | 4 | 50 | |
| 4+75 | -2 | 180 | |
| 5+00 | 4 | 150 | (-40 mesh) |
| L 9+00 S 0+25 E | 2 | 120 | |
| 0+50 | 2 | 220 | |
| 0+75 | 22 | 270 | |
| 1+00 | 2 | 180 | |
| 1+25 | 2 | 130 | |
| 1+50 | -2 | 150 | |
| 1+75 | 4 | 110 | |
| 2+00 | 2 | 180 | |
| 2+25 | 2 | 170 | |
| 2+50 | 42 | 200 | |
| 2+75 | 8 | 120 | |



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ANALYTICAL REPORT

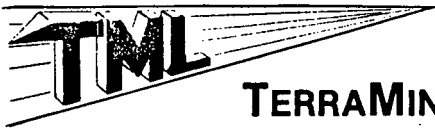
Job # 85-196

Date

Client Project Metsantan

Page 8/11

| Sample No. <u>Soil</u> | Au ppb | Ag ppb |
|---------------------------|-----------|-----------|
| L 9+00 S 3+00 E | 4 | 160 |
| 3+25 | 22 | 540 |
| 3+50 | 2 | 190 |
| 3+75 | -2 | 100 |
| 4+00 | 30 | 90 |
| 4+25 | -2 | 390 |
| 4+50 | -2 | 530 |
| 4+75 | 2 | 140 |
| 5+00 | -2 | 190 |
| L 12+00 S 7+50 W | 48 | 800 |
| 7+25 | 4 | 1850 |
| 7+00 | 50 | 620 |
| 6+75 | 22 | 1780 |
| 6+50 | 6 | 180 |
| 6+25 | 78 | 500 |
| 6+00 | 64 | 410 |
| 5+75 | 76 | 540 |
| 5+50 | 144 | 420 |
| 5+25 | 104 | 430 |
| 5+00 | 84 | 970 |
| 4+75 | 24 | 530 |
| 4+50 | 22 | 440 |
| 4+25 | 24 | 430 |
| 4+00 | 10 | 410 |
| 3+75 | 22 | 210 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-196

Date

Client Project Metsantan

Page 9/11

| <u>Soil</u> | Sample No. | Au ppb | Ag ppb |
|-------------|------------|-----------|-----------|
| L 12+00 S | 3+50 W | 70 | 280 |
| | 3+25 | 2 | 270 |
| | 3+00 | 2 | 290 |
| | 2+75 | 4 | 290 |
| | 2+50 | 6 | 280 |
| | 2+25 | -2 | 280 |
| | 2+00 | 6 | 190 |
| | 1+75 | 2 | 120 |
| | 1+50 | 4 | 110 |
| | 1+25 | 4 | 250 |
| | 1+00 | 4 | 260 |
| | 0+75 | 4 | 120 |
| | 0+50 | 56 | 260 |
| | 0+25 | -2 | 180 |
| | 0+00 | -2 | 150 |
| | 0+25 E | -2 | 310 |
| | 0+50 | -2 | 170 |
| | 0+75 | -2 | 570 |
| | 1+00 | 2 | 500 |
| | 1+25 | 24 | 800 |
| | 1+50 | 2 | 180 |
| | 1+75 | 2 | 290 |
| | 2+00 | -2 | 210 |
| | 2+25 | 2 | 120 |
| | 2+50 | -2 | 430 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-196

Date

Client Project Metsantan

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| Sample No. <u>Soil</u> | Au ppb | Ag ppb |
|---------------------------|-----------|-----------|
| L 12+00 S 2+75 E | 4 | 250 |
| 3+00 | 4 | 350 |
| 3+25 | 8 | 280 |
| 3+50 | 4 | 440 |
| 3+75 | 2 | 460 |
| 4+00 | 4 | 220 |
| 4+25 | 6 | 340 |
| 4+50 | 24 | 580 |
| 4+75 | 4 | 280 |
| 5+00 | 6 | 180 |
| L 14+00 S 4+75 W | 42 | 550 |
| 4+50 | 18 | 410 |
| 4+25 | 26 | 290 |
| 4+00 | 22 | 350 |
| 3+75 | 118 | 480 |
| 3+50 | 54 | 590 |
| 3+25 | 24 | 640 |
| 3+00 | 14 | 830 |
| 2+50 | 122 | 820 |
| 2+25 | 54 | 1160 |
| 2+00 | 12 | 310 |
| 1+75 | 8 | 280 |
| 1+50 | 24 | 650 |
| 1+25 | 56 | 560 |
| 1+00 | 6 | 120 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-196

Date

Client Project Metsantan

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| Sample No. <u>Soil</u> | Au ppb | Ag ppb |
|---------------------------|-----------|-----------|
| L 14+00 S 0+75 W | 12 | 390 |
| 0+50 | 8 | 250 |
| 0+25 | 6 | 320 |
| 0+00 | 6 | 430 |



TERRAMIN RESEARCH LABS LTD.

cc: Ron Netolitzky
Taiga Consultants

ANALYTICAL REPORT

Job # 85-201-B

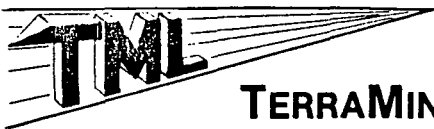
Bart Resources

Date Sept.11, 1985

Client Project Metsantan

Page 1/3

| Rock | Sample No. | Au ppb | Ag ppb |
|--------|------------|-----------|-----------|
| T-85-5 | 0 -1 m | 24 | 2400 |
| | 1 -2 | 16 | 2700 |
| | 2 -3 | 22 | 2500 |
| | 3 -3.5 | 1340 | 41000 |
| | 3.5-4.5 | 32 | 2800 |
| | 4.5-6 | 82 | 9000 |
| T-85-6 | 11-12 | 38 | 3200 |
| | 12-13 | 24 | 4000 |
| T-85-7 | 14387 | 250 | 1620 |
| | 14388 | 20 | 4500 |
| | 14389 | 28 | 4200 |
| | 14390 | 40 | 6200 |
| | 14391 | 4 | 4200 |
| | 14392 | 20 | 1880 |
| | 14393 | 58 | 1270 |
| | 14394 | 12 | 2700 |
| | 14395 | 54 | 500 |
| | 14396 | 22 | 1070 |
| | 14397 | 320 | 4600 |
| | 14398 | 416 | 3600 |
| T-85-8 | 14384 | 66 | 5700 |
| | 14385 | 3380 | 21000 |
| | 14386 | 10 | 770 |
| T-85-9 | 14368 | 26 | 3300 |
| | 14369 | 4 | 4400 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-201-B

Date

Client Project Metsantan

Page 2/3

| Sample No. | Au | Ag |
|---------------|-----|-------|
| <u>Rock</u> | ppb | ppb |
| T-85- 9 14370 | 12 | 4700 |
| 14371 | 148 | 10400 |
| 14372 | 152 | 5700 |
| 14373 | 160 | 10900 |
| 14374 | 4 | 1030 |
| 14375 | 4 | 1520 |
| 14376 | 2 | 870 |
| T-85-11 0-2 m | 6 | 1400 |
| 2-4 | 14 | 7900 |
| 4-6 | 16 | 3500 |
| 6-7 | 86 | 2800 |
| 7-8 | 18 | 5300 |
| 8-10 | 2 | 770 |
| 10-12 | 12 | 1380 |
| 12-14 | 10 | 1030 |
| 14-16 | 4 | 1430 |
| 16-18 | 4 | 3100 |
| 18-20 | 12 | 740 |
| 20-22 | 10 | 800 |
| 22-24 | 2 | 1840 |
| T-85-12 0-2 m | 20 | 9500 |
| 2-4 | 12 | 10000 |
| 4-6 | 4 | 1350 |
| 6-8 | 6 | 1760 |
| 8-10 | 4 | 3400 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-201-B

Date

Client Project Metsantan

Page 3/3

| <u>Rock</u> Sample No. | Au ppb | Ag ppb |
|---------------------------|-----------|-----------|
| T-85-12 10-12 m | 2 | 460 |
| 12-14 | 14 | 2800 |
| 14-16 | 4 | 960 |



ANALYTICAL REPORT

Job # 85-214

Bart Resources

Date Sept.24, 1985

Client Project

Page 1/3

| Sample No. | Au | Ag |
|-----------------------|-----|-----|
| <u>"C" Grid Soils</u> | ppb | ppb |
| L 10+00 S 24+50 W | 38 | 280 |
| 24+25 | 132 | 350 |
| 24+00 | 124 | 180 |
| 23+75 | 300 | 180 |
| 23+50 | 10 | 140 |
| 23+25 | 6 | 90 |
| 23+00 | 4 | 120 |
| 22+75 | 164 | 170 |
| 22+50 | 2 | 20 |
| 22+25 | 10 | 70 |
| 22+00 | 8 | 90 |
| 21+75 | 10 | 130 |
| 21+50 | 4 | 240 |
| 21+25 | 2 | 190 |
| 21+00 | -2 | 60 |
| 20+75 | 8 | 150 |
| 20+50 | 78 | 140 |
| 20+25 | 6 | 150 |
| 20+00 | 30 | 130 |
| L 12+00 S 24+75 W | 28 | 360 |
| 24+50 | 14 | 180 |
| 24+25 | 8 | 280 |
| 24+00 | 22 | 220 |
| 23+75 | 42 | 420 |
| 23+50 | 8 | 140 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-214

Date

Client Project

Page 2/3

| Sample No. "C" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 12+00 S 15+75 W | 4 | 220 |
| 15+50 | 4 | 140 |
| 15+25 | 4 | 300 |
| 15+00 | 8 | 210 |
| 14+75 | 8 | 390 |
| 14+50 | 16 | 260 |
| 14+25 | 6 | 200 |
| 14+00 | 8 | 180 |
| 13+75 | 376 | 600 |
| 13+50 | 34 | 330 |
| 13+25 | 482 | 400 |
| 13+00 | 20 | 360 |
| 12+75 | 294 | 460 |
| 12+50 | 86 | 470 |
| 12+00 | 4640 | 6600 |
| 11+75 | 228 | 3200 |
| 11+00 | 4 | 410 |
| L 12+50 S 25+00 W | 6 | 200 |
| L 13+00 S 25+00 W | 6 | 260 |
| L 13+50 S 25+00 W | 8 | 210 |
| L 14+00 S 24+25 W | 12 | 180 |
| 24+00 | 2 | 200 |
| 23+75 | 6 | 340 |
| 22+85 | 10 | 540 |
| 22+75 | 4 | 220 |



ANALYTICAL REPORT

Job # 85-214

Date

Client Project

Page 3/3

| Sample No. "C" Grid | Au ppb | Ag ppb |
|------------------------|---------------------------|-----------|
| L 14+00 S 22+50 | -2 | 280 |
| 22+25 | 2 | 200 |
| 22+00 | 28 | 230 |
| BL 16+75 S | 4 | 210 |
| 17+00 | 10 | 160 |
| 17+25 | 4 | 120 |
| 17+50 | 6 | 150 |
| 17+75 | 8 | 120 |
| 18+00 | 8 | 160 |
| 18+25 | 6 | 150 |
| 18+50 | 14 | 240 |
| 18+75 | 18 | 140 |
| 19+00 | 4 | 100 |
| 19+25 | 6 | 180 |
| 19+50 | 18 | 160 |
| 19+75 | 18 | 180 |
| L 12+00 S 25+00 W | N.S. empty bags submitted | |
| L 14+00 S 25+00 W | | |
| 24+75 | | |
| 24+50 | | |
| 23+50 | | |
| 23+25 | | |
| 23+00 | | |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-190

Bart Resources

Date Aug.31, 1985

Client Project Metsantan Proj.

Page 1/5

| Sample No. <u>Soil</u> | Au ppb | Ag ppb |
|---------------------------|-----------|-----------|
| L 13+00 S 5+50 W | 60 | 460 |
| 5+25 | 8 | 190 |
| 5+00 | 28 | 350 |
| 4+75 | 16 | 370 |
| 4+25 | 108 | 220 |
| 4+00 | 162 | 280 |
| 3+75 | 4 | 130 |
| 3+50 | 102 | 170 |
| 3+25 | 2 | 160 |
| 3+00 | 12 | 180 |
| 2+75 | 14 | 120 |
| 2+50 | 16 | 220 |
| 2+25 | 10 | 350 |
| 2+00 | -2 | 210 |
| 1+75 | 6 | 140 |
| 1+50 | 2 | 130 |
| 1+25 | 4 | 420 |
| 1+00 | 4 | 260 |
| 0+75 | 24 | 210 |
| 0+50 | 6 | 220 |
| 0+25 | 12 | 160 |
| L 16+00 S 7+50 W | 112 | 400 |
| 7+25 | 408 | 960 |
| 7+00 | 1360 | 1640 |
| 6+75 | 1580 | 2100 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-190

Date

Client Project

Page 2/5

| <u>Soil</u> | Sample No. | Au ppb | Ag ppb |
|-------------|------------|-----------|-----------|
| L 16+00 S | 6+50 W | 472 | 4500 |
| | 6+25 | 662 | 1230 |
| | 6+00 | 84 | 360 |
| | 5+75 | 206 | 480 |
| | 5+50 | 52 | 730 |
| | 5+00 | 642 | 900 |
| | 4+50 | 80 | 1230 |
| | 4+25 | 88 | 140 |
| | 4+00 | 94 | 380 |
| | 3+75 | 4 | 120 |
| | 3+50 | 24 | 150 |
| | 3+25 | 24 | 90 |
| | 3+00 | 76 | 120 |
| | 2+75 | 8 | 260 |
| | 2+50 | 8 | 360 |
| | 2+25 | 6 | 190 |
| | 2+00 | 28 | 160 |
| | 1+75 | 10 | 250 |
| | 1+50 | 8 | 160 |
| | 1+25 | 14 | 220 |
| | 1+00 | 4 | 170 |
| | 0+75 | 2 | 250 |
| | 0+50 | 10 | 140 |
| BL | 10+50 S | 6 | 130 |
| | 10+75 | 4 | 170 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-190

Date

Client Project

Page 3/5

| <u>Soil</u> | Sample No. | Au ppb | Ag ppb | Ba ppm |
|-------------|------------|-----------|-----------|-----------|
| BL | 11+00 S | 4 | 120 | |
| | 11+25 | 4 | 60 | |
| | 11+50 | 4 | 110 | |
| | 11+75 | 8 | 310 | |
| | 12+00 | -2 | 100 | |
| | 12+25 | 2 | 110 | |
| | 12+50 | 4 | 110 | |
| | 12+75 | 6 | 120 | |
| | 13+00 | 2 | 140 | |
| L 11+00 S | 3+45 W | 68 | 3100 | |
| | 3+40 | 116 | 5800 | 430 |
| | 3+35 | 108 | 4500 | |
| | 3+30 (-80) | 92 | 6800 | |
| | 3+30 (+80) | 10 | 1200 | |
| | 3+27 | 38 | 4200 | 380 |



ANALYTICAL REPORT

Job # 85-190

Date

Client Project Metanstan Proj.

Page 4/5

| <u>Rock</u> | Sample No. | Au ppb | Ag ppb | Ba ppm |
|-------------|-------------|-----------|-----------|-----------|
| | 5116 | 448 | 3700 | |
| | 5117 RKN 13 | 8 | 270 | 870 |
| | 14166 | 68 | 2300 | |
| | 14167 | 30 | 3200 | |
| | 14168 | 22 | 3900 | |
| | 14169 | 22 | 1600 | |
| | 14171 | 84 | 2800 | |
| | 14172 | 34 | 3200 | |
| | 14173 | 70 | 4600 | |
| | 14174 | 22 | 2300 | |
| | 14175 | 54 | 4200 | |
| | 14176 | 54 | 7100 | |
| | 14177 | 80 | 4700 | |
| | 14179 | 188 | 31,000 | |
| | 14180 | 588 | 72000 | |
| | 14181 | 908 | 147000 | |
| | 14182 | 84 | 9100 | |
| | 14183 | 216 | 8000 | |
| | 14184 | 262 | 6700 | |
| | 14185 | 188 | 8400 | |
| | 14186 | 446 | 3900 | |
| | 14187 | 262 | 7100 | |
| | 14188 | 264 | 12000 | |
| | 14190 | 6 | 1090 | |
| | 14191 | 4 | 970 | |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-190

Date

Client Project

Page 5/5

| <u>Rock</u> | Sample No. | Au ppb | Ag ppb |
|-----------------------------|------------|-----------|-----------|
| | 14192 | 28 | 3400 |
| | 14193 | 422 | 4000 |
| | 14194 | 32 | 1480 |
| | 14196 | 22 | 1120 |
| Mets L 13+50 S 7+50 W float | | 398 | 5400 |
| L 14+00 S 7+00 W float | | 332 | 4900 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-227

Bart Resources

Date Sept.30, 1985

Client Project

Page 1/7

| Sample No. | Au | Ag |
|----------------------|-----|------|
| <u>"B" Grid Soil</u> | ppb | ppb |
| L 0+00 S 10+50 W | 8 | 180 |
| 10+25 | 2 | 350 |
| 10+00 | -2 | 320 |
| 9+75 | 2 | 270 |
| 9+50 | -2 | 310 |
| 9+25 | 4 | 240 |
| 9+00 | -2 | 400 |
| 8+75 | -2 | 370 |
| 8+50 | -2 | 270 |
| 8+25 | 4 | 350 |
| 8+00 | 2 | 290 |
| 7+75 (-40) | 4 | 170 |
| 7+50 | 16 | 250 |
| 7+25 (-40) | 2 | 220 |
| 7+00 | 2 | 180 |
| 6+75 | 2 | 130 |
| 6+50 | -2 | 160 |
| 6+25 | -2 | 190 |
| 6+00 | 8 | 270 |
| 5+75 | 2 | 510 |
| 5+50 | 6 | 1560 |
| 5+25 | 2 | 910 |
| 5+00 | 4 | 680 |
| 4+75 | 4 | 240 |
| 4+50 (-40) | 8 | 720 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-227

Date

Client Project

Page 2/7

| Sample No. | Au | Ag |
|------------------------|-----|------|
| <u>"B" Grid</u> | ppb | ppb |
| L 0+00 S 4+25 W (-40) | 8 | 410 |
| 4+00 (-40) | 6 | 430 |
| 3+75 | 2 | 250 |
| 3+50 | 4 | 280 |
| 3+25 | 4 | 300 |
| 3+00 | 6 | 260 |
| 2+75 (-40) | -2 | 90 |
| 2+50 | 6 | 230 |
| 2+25 (-40) | 14 | 270 |
| 1+75 (-40) | 4 | 670 |
| 1+50 | 8 | 510 |
| 1+25 | 4 | 260 |
| 1+00 | 8 | 230 |
| 0+75 | -2 | 280 |
| 0+50 | 2 | 440 |
| 0+25 | 2 | 340 |
| L 4+00 S 12+00 W (-40) | 8 | 1200 |
| 11+75 (-40) | 6 | 1470 |
| 11+50 (-40) | 6 | 2500 |
| 11+25 (-40) | 6 | 340 |
| 11+00 (-40) | 14 | 900 |
| 10+75 (-40) | 4 | 430 |
| 10+50 (-40) | 12 | 670 |
| 10+25 | 4 | 320 |
| 10+00 | 24 | 200 |



ANALYTICAL REPORT

Job # 85-227

Date

Client Project

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| Sample No. "B" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 4+00 S 9+75 W | 4 | 380 |
| 9+50 | 2 | 110 |
| 9+25 | 4 | 190 |
| 9+00 | -2 | 160 |
| 8+75 | -2 | 160 |
| 8+50 | -2 | 210 |
| 8+25 | 2 | 230 |
| 8+00 | 14 | 200 |
| 7+75 (-40) | 16 | 130 |
| 7+50 (-40) | 16 | 80 |
| 6+25 | 8 | 420 |
| 6+00 | 2 | 170 |
| 5+00 | -2 | 340 |
| 4+75 (-40) | 8 | 370 |
| 3+75 (-40) | 18 | 670 |
| 2+25 (-40) | 16 | 680 |
| 2+00 (-40) | 18 | 1870 |
| 1+75 | 12 | 550 |
| 1+50 | 4 | 520 |
| 1+25 | 4 | 740 |
| 0+25 (-40) | 4 | 1010 |



ANALYTICAL REPORT

Job # 85-227

Date

Client Project

Page 4/7

| Sample No. | Au | Ag |
|-------------------------|-----|------|
| "C" Grid Soil | ppb | ppb |
| L 10+00 S 19+75 W (-40) | 2 | 110 |
| 19+50 | 176 | 240 |
| 19+25 | 32 | 480 |
| 19+00 | 6 | 130 |
| 18+75 | 8 | 130 |
| 18+50 | 2 | 110 |
| 18+25 | 46 | 260 |
| 18+00 | 16 | 240 |
| 17+75 | 32 | 250 |
| 17+00 | 4 | 210 |
| 16+75 | 2 | 230 |
| 16+50 | 4 | 130 |
| 16+25 | 8 | 200 |
| 16+00 | 4 | 240 |
| 15+75 | 8 | 240 |
| 15+50 | 24 | 470 |
| 15+25 | 10 | 270 |
| 15+00 | 6 | 270 |
| 14+75 | 72 | 1040 |
| 14+50 | 6 | 400 |
| 14+25 | 46 | 600 |
| 14+00 | 26 | 950 |
| 13+75 | 4 | 720 |
| 13+50 | 2 | 750 |
| 13+25 | 32 | 860 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-227

Date

Client Project

Page 5/7

| Sample No. "C" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 10+00 S 13+00 W | 6 | 450 |
| 12+75 | 288 | 860 |
| 12+50 | 8 | 380 |
| 12+25 | 278 | 3600 |
| 12+00 | 6 | 450 |
| 11+75 | 44 | 2700 |
| 11+50 | 52 | 1310 |
| 11+25 | 26 | 950 |
| 11+00 | 32 | 1200 |
| 10+75 | 38 | 4000 |
| 10+50 | 58 | 2700 |
| 10+25 | 28 | 570 |
| 10+00 | 2 | 780 |
| 9+75 | 50 | 3100 |
| 9+50 | 18 | 900 |
| 9+00 | 36 | 790 |
| 8+75 | 14 | 660 |
| 8+50 | 6 | 990 |
| 8+25 | 42 | 710 |
| 8+00 | -2 | 250 |
| 7+75 | 700 | 2300 |
| L 12+00 S 23+25 W | 12 | 250 |
| 23+00 | -2 | 200 |
| 22+75 | 14 | 540 |
| 22+50 | 6 | 160 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

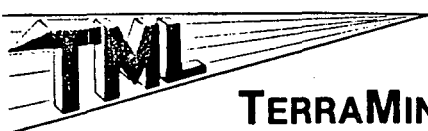
Job # 85-227

Date

Client Project

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| Sample No. <u>"C" Grid</u> | Au ppb | Ag ppb |
|-------------------------------|-----------|-----------|
| L 12+00 S 22+25 W | 4 | 250 |
| 22+00 | 2 | 150 |
| 21+75 | 4 | 80 |
| 21+50 | 4 | 130 |
| 21+25 | 8 | 110 |
| 21+00 | -2 | 140 |
| 20+75 | 18 | 130 |
| 20+50 | 4 | 200 |
| 20+25 | 2 | 130 |
| 20+00 | 4 | 120 |
| 19+75 | 2 | 150 |
| 19+50 | 8 | 180 |
| 19+00 | 2 | 180 |
| 18+75 | 4 | 130 |
| 18+50 | 4 | 110 |
| 18+25 | 2 | 170 |
| 18+00 | -2 | 160 |
| 17+75 | -2 | 70 |
| 17+50 | 2 | 190 |
| 17+25 | 2 | 120 |
| 17+00 | 12 | 190 |
| 16+75 | 8 | 220 |
| 16+50 | 4 | 130 |
| 16+25 | 12 | 370 |
| 16+00 | 6 | 480 |



ANALYTICAL REPORT

Job # 85-227

Date

Client Project

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| Sample No. "C" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 12+00 S 10+75 W | 164 | 13800 |
| 10+50 | 28 | 4400 |
| 10+25 | 84 | 25000 |
| 10+00 | 50 | 5200 |
| 9+75 | 38 | 1200 |
| 9+50 | 8 | 310 |
| 9+25 | 8 | 500 |
| 9+00 | 6 | 630 |
| 8+75 | 2 | 540 |
| 8+50 | -2 | 390 |
| 8+25 | 80 | 8100 |
| 8+00 | 6 | 1130 |
| 7+75 | 88 | 3000 |



ANALYTICAL REPORT

Job # 85-236

Bart Resources

Date Oct.3, 1985

Client Project

Page 1/1

| Sample No. | Au ppb | Ag ppm |
|----------------|-----------|-----------|
| TM - 200 | 4 | 0.33 |
| 201 | 68 | 5.1 |
| 202 | 26 | 9.1 |
| RKN - 2 | 2900 | 60. |
| 3 | 12300 | 380. |
| (-80) 4 (Soil) | 216 | 13.2 |
| (+80) 4 | 24 | 1.85 |
| 5 | 22 | 6.3 |
| 6 | 34 | 2.8 |



4200B - 10 STREET N.E.
CALGARY, ALBERTA
T2E 6K3

PHONE: (403) 250-1901
31-OCT-85
PAGE: 1 OF 1
COPY: 3 OF 3
C O P Y

AUTHORITY: R. NETOLITZKY

TAIGA CONSULTANTS LTD.
100, 1300 - 8 ST. S.W.
CALGARY, ALBERTA

ATTN: R. NETOLITZKY

WORK ORDER: 8261D-85

*** FINAL REPORT ***

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK

| SAMPLE NUMBER | CU PPM | PB PPM | ZN PPM | AS PPM |
|-----------------|--------|--------|--------|--------|
| GW-MT:5 | 24.0 | 18.0 | 42.0 | 60.0 |
| GW-MT:8 | 27.0 | 104.0 | 52.0 | <1.0 |
| GW-MT:9 | 10.0 | <1.0 | 3.0 | <1.0 |
| TR-82:13 | 70.0 | 6.0 | 203.0 | 10.0 |
| TR-82:17 | 400.0 | 330.0 | 650.0 | <1.0 |
| 16+00S:6+50 W | 41.0 | 430.0 | 590.0 | <1.0 |
| 4+00S:3+75 W -A | 5300.0 | 9.0 | 38.0 | 38.0 |

SIGNED: *C. Douglas Read*
C. Douglas Read.
LABORATORY MANAGER

ORIGINAL TO:
BART RESOURCES LTD.
VANCOUVER, B.C. V7Y 1B6
R. BIEBAR

FOOTNOTES:
P=QUESTIONABLE PRECISION; * = INTERFERENCE; TR=TRACE; ND=NOT DETECTED;
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-201-A

Bart Resources

Date Sept. 20, 1985

Client Project

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| <u>Soil</u> | Sample No. | Au ppb | Ag ppb |
|-------------|-------------|-----------|-----------|
| BL | 8+25 S | 6 | 430 |
| | 8+50 | 8 | 750 |
| | 8+75 | 4 | 250 |
| | 9+25 | -2 | 550 |
| | 9+50 | 2 | 470 |
| | 9+75 | 2 | 340 |
| | 10+00 | 2 | 370 |
| | 10+25 | 4 | 450 |
| | 10+50 | 2 | 310 |
| | 13+25 | 4 | 260 |
| | 13+50 | 2 | 340 |
| | 13+75 | 4 | 390 |
| | 14+25 | 2 | 320 |
| | 14+50 (-40) | 6 | 510 |
| | 14+75 (-40) | 2 | 410 |
| | 15+00 | 2 | 350 |
| | 15+25 (-40) | 2 | 250 |
| | 15+50 | 2 | 260 |
| | 15+75 | 4 | 260 |
| | 16+25 | 4 | 210 |
| | 16+50 | 6 | 320 |
| L 2+00 S | 3+50 W | 82 | 230 |
| | 3+25 | 24 | 320 |
| | 3+00 | 28 | 270 |
| | 2+75 | 4 | 350 |



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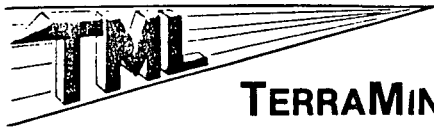
Job # 85-201-A

Date

Client Project

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| Sample No. | Au ppb | Ag ppb |
|-----------------|-----------|-----------|
| L 2+00 S 2+50 W | 8 | 480 |
| 2+25 | 8 | 430 |
| 2+00 | 24 | 420 |
| 1+75 | 18 | 240 |
| 1+50 (-40) | 4 | 250 |
| 1+25 | 2 | 210 |
| 1+00 | 2 | 270 |
| 0+75 | 2 | 240 |
| 0+50 (-40) | 4 | 380 |
| 0+25 (-40) | 6 | 270 |
| 0+00 | 4 | 560 |
| 0+25 E | 2 | 130 |
| 0+50 | 4 | 120 |
| 0+75 | -2 | 70 |
| 1+00 | 4 | 80 |
| 1+25 | 2 | 50 |
| 1+50 | 2 | 120 |
| 1+75 | 6 | 140 |
| 2+00 | -2 | 110 |
| 2+25 | 4 | 130 |
| 2+50 | -2 | 120 |
| 2+75 | 2 | 50 |
| 3+00 | 2 | 120 |
| 3+25 | 8 | 140 |
| 3+50 | 2 | 150 |



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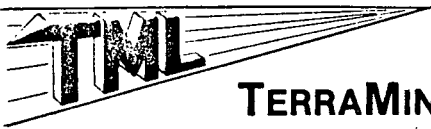
Job # 85-201-A

Date

Client Project

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| Sample No. | Au ppb | Ag ppb |
|-----------------|-----------|-----------------------|
| L 2+00 S 3+75 E | -2 | 90 |
| 4+00 | 24 | 170 |
| 4+25 | 2 | 120 TO FOLLOW SHORTLY |
| 4+50 | 2 | 330 |
| 4+75 | -2 | 90 |
| 5+00 | 2 | 10 |
| L 6+00 S 5+50 W | -2 | 180 |
| 5+25 | 8 | 300 |
| 5+00 | 8 | 200 |
| 4+75 | 6 | 170 |
| 4+50 | 14 | 300 |
| 4+25 | 6 | 390 |
| 4+00 | 8 | 220 |
| 3+75 | 4 | 90 |
| 3+50 | -2 | 40 |
| 3+25 | 8 | 250 |
| 3+00 | 12 | 100 |
| 2+75 | 2 | 130 |
| 2+50 | 16 | 120 |
| 2+25 | 8 | 110 |
| 2+00 | 8 | 250 |
| 1+75 | 8 | 130 |
| 1+50 | 4 | 120 |
| 1+25 | 2 | 410 |
| 1+00 | 2 | 360 |



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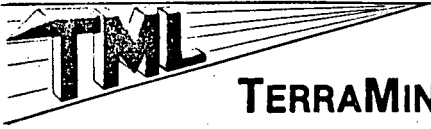
Job # 85-201-A

Date

Client Project

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| Sample No. | Au ppb | Ag ppb |
|-----------------|-----------|-----------|
| L 6+00 S 0+75 W | 2 | 240 |
| 0+50 | -2 | 240 |
| 0+25 | -2 | 190 |
| 0+00 | 2 | 270 |
| 0+25 E | 4 | 700 |
| 0+50 | 2 | 240 |
| 0+75 | 4 | 180 |
| 1+00 | 4 | 140 |
| 1+25 | 62 | 330 |
| 1+50 | 14 | 230 |
| 1+75 | 4 | 140 |
| 2+00 | 14 | 240 |
| 2+25 | 2 | 370 |
| 2+50 (-40) | 8 | 240 |
| 2+75 | 4 | 590 |
| 3+00 | 14 | 270 |
| 3+25 (-40) | 8 | 1030 |
| 3+50 | 10 | 320 |
| 3+75 | 2 | 330 |
| 4+00 | 2 | 240 |
| 4+25 | 4 | 320 |
| 4+50 | 4 | 140 |
| 4+75 | 2 | 310 |
| 5+00 | 2 | 250 |
| L 7+00 S 5+00 W | 22 | 370 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-201-A

Date

Client Project

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| Sample No. | Au ppb | Ag ppb |
|------------------|-----------|-----------|
| L 7+00 S 4+75 W | 24 | 660 |
| 4+50 | 26 | 350 |
| 4+25 | 28 | 1900 |
| 4+00 | 2 | 280 |
| 3+75 | 4 | 160 |
| 3+50 | 58 | 200 |
| 3+25 | 6 | 330 |
| 3+00 | 4 | 210 |
| 2+75 | 2 | 320 |
| 2+50 | 4 | 380 |
| 2+25 | -2 | 260 |
| 2+00 | 4 | 260 |
| 1+75 | 6 | 260 |
| 1+50 | 2 | 370 |
| 1+25 | 4 | 310 |
| 1+00 | 2 | 320 |
| 0+75 | 2 | 340 |
| 0+50 | -2 | 260 |
| 0+25 | 2 | 390 |
| 0+00 | 2 | 360 |
| L 9+00 S 13+00 W | 10 | 890 |
| 12+75 | 8 | 930 |
| 12+50 | 62 | 9100 |
| 12+25 | 10 | 370 |
| 12+00 | 536 | 3000 |



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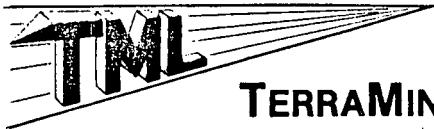
Job # 85-201-A

Date

Client Project

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| Sample No. | Au ppb | Ag ppb |
|------------------|-----------|-----------|
| L 9+00 S 11+75 W | 336 | 6900 |
| 11+50 | 236 | 6800 |
| 11+25 | 194 | 6900 |
| 11+00 | 4 | 710 |
| 10+50 | 308 | 13700 |
| 10+25 | 174 | 7200 |
| 10+00 | 138 | 4100 |
| 9+75 | 4 | 690 |
| 9+25 | 2 | 460 |
| 9+00 | 2 | 320 |
| 8+75 | 154 | 1090 |
| 8+50 | 102 | 640 |
| 8+00 | 4 | 820 |
| 7+75 | 2 | 720 |
| 7+50 | -2 | 330 |
| 7+25 | -2 | 580 |
| 5+00 | 220 | 10900 |
| 4+75 | 212 | 8900 |
| 4+00 | 12 | 1270 |
| 3+75 | -2 | 300 |
| 3+50 | -2 | 390 |
| 3+25 | 8 | 2200 |
| 3+00 | 2 | 470 |
| 2+75 | 6 | 700 |
| 2+50 | 10 | 740 |



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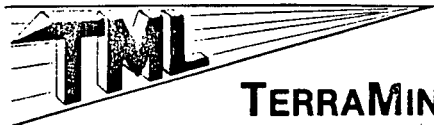
Job # 85-201-A

Date

Client Project

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| Sample No. | Au ppb | Ag ppb |
|------------------|-----------|-----------|
| L 9+00 S 2+25 W | 4 | 660 |
| 2+00 | 16 | 830 |
| 1+75 | 6 | 680 |
| 1+50 | 12 | 820 |
| 1+25 | 2 | 420 |
| 1+00 | 8 | 970 |
| 0+75 | 8 | 620 |
| 0+50 | 10 | 530 |
| 0+25 | 2 | 520 |
| 0+00 | 4 | 310 |
| L 10+00 S 7+50 W | 4 | 470 |
| 7+25 | 74 | 1140 |
| 7+00 | -2 | 600 |
| 6+75 | 2 | 690 |
| L 11+00 S 7+50 W | 8 | 1420 |
| 7+25 | 42 | 700 |
| 7+00 | 104 | 860 |
| 6+75 | 38 | 1300 |
| 6+50 | 34 | 1520 |
| 6+25 | 12 | 1520 |
| 6+00 | 18 | 610 |
| 5+75 | 254 | 7600 |
| L 13+00 S 7+50 W | 92 | 4200 |
| 7+25 | 118 | 4500 |
| 7+00 | 12 | 2500 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-201-A

Date

Client Project

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| Sample No. | Au ppb | Ag ppb |
|------------------|-----------|-----------|
| L 13+00 S 6+75 W | 20 | 3200 |
| 6+50 | 28 | 910 |
| 6+25 | 12 | 900 |
| 6+00 | 54 | 1680 |
| 5+75 | 68 | 1770 |
| L 14+00 S 7+50 | 18 | 720 |
| 7+25 | 24 | 1230 |
| 7+00 | 14 | 740 |
| 6+75 | 142 | 990 |
| 6+50 | 22 | 1700 |
| 6+25 | 52 | 1900 |
| 6+00 | 114 | 1480 |
| 5+75 | 86 | 4200 |
| 5+50 | 64 | 1720 |
| 5+25 | 74 | 1110 |
| 5+00 | 22 | 860 |
| Sediment GW-S-01 | 2 | 610 |
| 02 | 4 | 1200 |
| 03 | -2 | 670 |



TERRAMIN RESEARCH LABS LTD.

cc: Ron Netolitzky
Taiga Consultants

ANALYTICAL REPORT

Job # 85-204

Bart Resources

Date Sept.23, 1985

Client Project

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| Soil | Sample No. "A" Grid | Au ppb | Ag ppb |
|----------|------------------------|-----------|-----------|
| L 8+00 S | 10+00 W | -2 | 460 |
| | 9+75 | 4 | 660 |
| | 9+50 | 28 | 960 |
| | 9+25 | -2 | 790 |
| | 9+00 | 68 | 770 |
| | 8+75 (-40) | 36 | 520 |
| | 8+50 | 12 | 1480 |
| | 8+25 | 6 | 1100 |
| | 8+00 | 16 | 2800 |
| | 7+75 | 8 | 1780 |
| | 7+50 (-40) | I.S. | |
| | 7+25 | 4 | 640 |
| | 7+00 (-40) | 14 | 530 |
| | 6+75 | -2 | 470 |
| | 6+50 | 4 | 880 |
| | 6+25 | 6 | 350 |
| | 6+00 | 4 | 450 |
| | 5+75 | 4 | 420 |
| | 5+50 | 10 | 380 |
| | 5+25 | 2 | 330 |
| | 5+00 | 26 | 400 |
| | 4+75 | 4 | 370 |
| | 4+50 | -2 | 350 |
| | 4+25 | -2 | 280 |
| | 4+00 | 32 | 350 |



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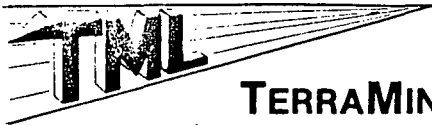
Job # 85-204

Date

Client Project

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| Sample No. "A" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 8+00 S 3+75 W | -2 | 420 |
| 3+50 | -2 | 370 |
| 3+25 | 6 | 280 |
| 3+00 | 2 | 260 |
| 2+75 | 2 | 370 |
| 2+50 | 4 | 330 |
| 2+25 | -2 | 320 |
| 2+00 | 2 | 320 |
| 1+75 | 30 | 2800 |
| 1+50 | 36 | 3000 |
| 1+25 | 22 | 2300 |
| 1+00 | 12 | 1740 |
| 0+75 | 10 | 760 |
| 0+50 | 28 | 3000 |
| 0+25 | 38 | 3600 |
| 0+00 | 10 | 1510 |
| 0+25 E | -2 | 250 |
| 0+50 | 2 | 60 |
| 0+75 | -2 | 90 |
| 1+00 | 18 | 480 |
| 1+25 | 12 | 590 |
| 1+50 | 4 | 580 |
| 1+75 | 42 | 1040 |
| 2+00 | 2 | 1820 |
| L 9+00 S 5+00 W | 6 | 370 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-204

Date

Client Project

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| Sample No. "A" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 9+00 S 4+75 W | 6 | 70 |
| 4+50 | -2 | 10 |
| 4+25 | -2 | 300 |
| 4+00 | 4 | 110 |
| 3+75 | 6 | 50 |
| 3+50 | 2 | 60 |
| 3+25 | 4 | 100 |
| 3+00 | 2 | 90 |
| 2+75 | -2 | 160 |
| 2+50 | 2 | 70 |
| 2+25 (1) | 18 | 1120 |
| 2+25 (2) | 4 | 60 |
| 2+00 | 2 | 30 |
| 1+75 | 16 | 250 |
| 1+50 | 2 | 30 |
| 1+25 | -2 | 110 |
| 1+00 | 6 | 160 |
| 0+75 | 2 | 80 |
| 0+50 | -2 | 60 |
| 0+25 | 18 | 260 |
| 0+00 | 2 | 170 |
| 0+25 E | 6 | 40 |
| 0+50 | 4 | 220 |
| 0+75 | 28 | 1330 |
| 1+00 | 22 | 1580 |



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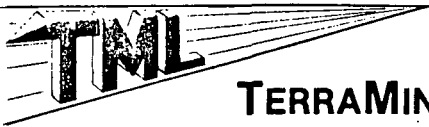
Job # 85-204

Date

Client Project

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| Sample No. "A" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 9+00 S 1+25 E | 44 | 3300 |
| 1+50 | 62 | 4200 |
| 1+75 | 6 | 1030 |
| 2+00 | 2 | 300 |
| L 10+00 S 10+00 W | 4 | 620 |
| 9+75 | -2 | 480 |
| 9+50 | -2 | 2100 |
| 9+25 | 2 | 350 |
| 9+00 | 8 | 1560 |
| 8+75 | 4 | 350 |
| 8+50 | -2 | 640 |
| 8+25 | 2 | 580 |
| 8+00 | -2 | 210 |
| 7+75 | 2 | 140 |
| 7+50 | 8 | 160 |
| 7+25 | 2 | 100 |
| 7+00 | 14 | 110 |
| 6+75 | 6 | 90 |
| 6+50 | 6 | 130 |
| 6+25 | 4 | 130 |
| 6+00 | 4 | 600 |
| 5+75 | -2 | 390 |
| 5+50 | 2 | 230 |
| 5+25 | 2 | 310 |
| 5+00 | 2 | 50 |



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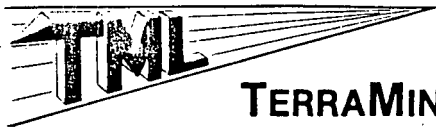
Job # 85-204

Date

Client Project

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| Sample No. "A" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 10+00 S 4+75 W | 2 | 350 |
| 4+50 | 2 | 120 |
| 4+25 | 2 | 100 |
| 4+00 | 4 | 120 |
| 3+75 | 10 | 100 |
| 3+50 | 2 | 80 |
| 3+25 | 4 | 130 |
| 3+00 | -2 | 110 |
| 2+75 | -2 | 60 |
| 2+50 | 4 | 500 |
| 2+25 | 2 | 180 |
| 2+00 | 4 | 50 |
| 1+75 | -2 | 320 |
| 1+50 | 4 | 190 |
| 1+25 | 62 | 500 |
| 1+00 | 4 | 140 |
| 0+75 | 2 | 200 |
| 0+50 | 8 | 260 |
| 0+25 | 10 | 190 |
| 0+00 | 28 | 590 |
| L 11+00 S 5+00 W | 10 | 170 |
| 4+75 | -2 | 170 |
| 4+50 | 4 | 340 |
| 4+25 | 2 | 110 |
| 4+00 | 6 | 250 |



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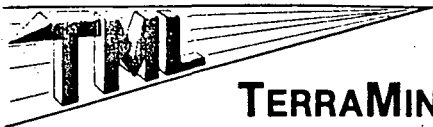
Job # 85-204

Date

Client Project

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| Sample No. | Au | Ag |
|-------------------|-----|------|
| <u>"A" Grid</u> | ppb | ppb |
| L 11+00 S 3+75 W | 2 | 90 |
| 3+50 | 22 | 100 |
| 3+25 | 4 | 130 |
| 3+00 | 4 | 790 |
| 2+75 | 2 | 110 |
| 2+50 | 2 | 140 |
| 2+25 | -2 | 400 |
| 2+00 | 28 | 3700 |
| 1+75 | 4 | 260 |
| 1+50 | 6 | 270 |
| 1+25 | 22 | 1600 |
| 1+00 | 2 | 1000 |
| 0+75 | 30 | 830 |
| 0+25 (-40) | 96 | 3200 |
| 0+00 | 28 | 570 |
| <u>"C" Grid</u> | | |
| TL 7+50 W 16+00 S | 72 | 290 |
| 16+50 | 62 | 270 |
| 17+00 | 44 | 60 |
| 17+50 | 108 | 270 |
| 18+00 | 28 | 1280 |
| 18+50 | 12 | 260 |
| 19+00 | 66 | 300 |
| 19+50 | 144 | 110 |
| 20+00 | 16 | 60 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 85-204

Date

Client Project

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| Sample No. "C" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 11+00 S 5+00 W | 18 | 470 |
| 4+75 | 24 | 530 |
| 4+50 | 110 | 1020 |
| 4+25 | 20 | 1030 |
| 4+00 | 16 | 280 |
| 3+50 | 24 | 1180 |
| 3+25 | 24 | 5900 |
| 3+00 | 26 | 1400 |
| 2+75 | 10 | 330 |
| 2+50 | 6 | 100 |
| 2+25 | 10 | 30 |
| 2+00 | 4 | 10 |
| 1+75 | 6 | 60 |
| 1+50 | 34 | 200 |
| 1+25 | 4 | 110 |
| 1+00 | 2 | 130 |
| 0+75 | 4 | 110 |
| 0+50 | 16 | 60 |
| 0+25 | 2 | 90 |
| 0+25 E | 6 | 40 |
| 0+50 | 4 | 30 |
| 0+75 | 4 | 100 |
| 1+00 | 6 | 50 |
| 1+25 | 128 | 150 |
| 1+50 | 4 | 220 |



TERRAMIN RESEARCH LABS LTD.

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| Sample No. "C" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 11+00 S 1+75 E | 26 | 120 |
| 2+00 | 4 | 70 |
| 2+25 | 4 | 10 |
| 2+50 | 2 | 50 |
| 2+75 | 4 | 170 |
| 3+00 | 10 | 190 |
| 3+25 | -2 | 90 |
| 3+50 | 4 | 110 |
| 3+75 | -2 | 90 |
| 4+00 | -2 | 10 |
| 4+25 | 2 | 30 |
| 4+50 | 2 | 50 |
| 4+75 | 4 | 280 |
| 5+00 | -2 | 70 |
| L 18+00 S 13+50 W | 4 | 130 |
| 13+25 | -2 | 130 |
| 13+00 | 16 | 440 |
| 12+75 | 34 | 170 |
| 12+50 | 8 | 950 |
| 12+25 | 66 | 900 |
| 12+00 | -2 | 320 |
| 11+75 | 88 | 120 |
| 11+50 | 22 | 310 |
| 11+25 | 334 | 1440 |
| 11+00 | -2 | 180 |



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

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Client Project

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| Sample No. "C" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 18+00 S 10+75 W | 2 | 140 |
| 10+50 | 2 | 130 |
| 10+25 | 6 | 100 |
| 10+00 | -2 | 120 |
| 9+75 | 2 | 240 |
| 9+50 | 6 | 40 |
| 9+25 | 2 | 340 |
| 9+00 | 2 | 90 |
| 8+75 | 8 | 460 |
| 8+25 | 4 | 270 |
| 8+00 | 36 | 290 |
| 7+75 | 18 | 360 |
| 7+25 | 54 | 260 |
| 7+00 | 48 | 440 |
| 6+75 | 102 | 250 |
| 6+50 | 296 | 1010 |
| 6+25 | 668 | 2600 |
| 6+00 | 72 | 820 |
| 5+75 | 8 | 540 |
| 5+50 | 66 | 2500 |
| 5+25 | 44 | 880 |
| 5+00 | 10 | 560 |
| 4+75 | 24 | 280 |
| 4+50 | 4 | 90 |
| 4+25 | 8 | 70 |



ANALYTICAL REPORT

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Client Project

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| Sample No. "C" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 18+00 S 4+00 W | 32 | 130 |
| 3+75 | 4 | 150 |
| 3+50 | 16 | 60 |
| 3+25 | -2 | 120 |
| 3+00 | 2 | 20 |
| 2+75 | -2 | 30 |
| 2+50 | -2 | 70 |
| 2+25 | 2 | 130 |
| 2+00 | 108 | 130 |
| 1+75 | 52 | 40 |
| 1+50 | 2 | 50 |
| 1+25 | 4 | 50 |
| 1+00 | 16 | 90 |
| 0+75 | 2 | 30 |
| 0+50 | 6 | 280 |
| 0+25 | 2 | 60 |
| L 20+00 S 7+25 W | 22 | 100 |
| 7+00 | 6 | 290 |
| 6+75 | 2 | 320 |
| 6+50 | 2 | 60 |
| 6+25 | -2 | 60 |
| 6+00 | 20 | 1150 |
| 5+75 | 2 | 190 |
| 5+50 | 2 | 140 |
| 5+25 | -2 | 140 |



ANALYTICAL REPORT

Job # 85-204

Date

Client Project

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| Sample No. "C" Grid | Au ppb | Ag ppb |
|------------------------|-----------|-----------|
| L 20+00 S 5+00 W | 18 | 810 |
| 4+75 | -2 | 70 |
| 4+50 | 2 | 110 |
| 4+25 | -2 | 280 |
| 4+00 | -2 | 20 |
| 3+75 | 2 | 200 |
| 3+50 | 4 | 210 |
| 3+25 | 2 | 60 |
| 3+00 | 2 | 100 |
| 2+75 | 4 | 30 |
| 2+50 | 4 | 40 |
| 2+25 | 2 | 50 |
| 2+00 | 10 | 100 |
| 1+75 | 6 | 90 |
| 1+50 | 2 | 90 |
| 1+25 | 2 | 100 |
| 1+00 | 2 | 100 |
| 0+75 | 24 | 130 |
| 0+50 | -2 | 50 |
| 0+25 | 2 | 220 |
| 0+00 | 2 | 80 |

A P P E N D I X I V

Summary of
Personnel and Expenditures

SUMMARY OF PERSONNEL

| | | |
|---|---------------------|------------------------|
| R. K. Netolitzky 74 Wildwood Drive SW Calgary, Alta T3C 3C4 | August | 7 1/2 days |
| J. R. Allan 3609 - 1A Street SW Calgary, Alta T2S 1R4 | August | 1/2 day |
| G. L. Wilson 60 Ranchridge Road NW Calgary, Alta T3G 1Z9 | August September | 24 days 10 3/8 days |
| T. B. Millinoff 116 MacEwan Drive NW Calgary, Alta T3K 2P7 | August | 3 1/2 days |
| R. Stefik #406, 690 - 28th St. W Prince Albert, Sask. S6V 6Z7 | August | 20 days |
| B. C. Beattie P. O. Box. 2183 Clearwater, BC VOE 1N0 | August September | 4 days 1 day |
| J. W. Davis III 3220 Oakwood Dr. SW Calgary, Alta T2V 0J9 | August | 3 days |
| C. M. R. Curtin 109 Niagara St. #A-10 Toronto, Ont. M5V 1C3 | August | 9 1/4 days |
| P. G. Estabrooks 732 - 33rd St. NW Calgary, Alta T2N 2W6 | August | 10 days |
| D. D. Dancer #2, 519 - 4a St. NE Calgary, Alta T1Y 3V9 | August September | 2 days 2 1/2 days |
| | | 87 5/8 man days |

SUMMARY OF EXPENDITURESPROFESSIONAL SERVICES

| | | | |
|---------------------------|--------------------------|----------|----------|
| R. K. Netolitzky, P.Geol. | Aug. 7½ days @ \$325/day | 2,437.50 | |
| | Sep. 1 day @ \$325/day | 325.00 | |
| J. R. Allan, P.Geol. | Aug. ½ day @ \$325/day | 162.50 | |
| J. W. Davis, P.Geol. | Aug. ½ day @ \$325/day | 162.50 | 3,087.50 |

FIELD PERSONNEL

| | | | |
|-------------------------|--------------------------|----------|-----------|
| G. L. Wilson Proj.Geol. | Aug. 4 days @ \$220/offc | 880.00 | |
| | Aug. 20 days @ \$240/day | 4,800.00 | |
| | Sep. ½ day @ \$240/day | 120.00 | |
| P. Estabrooks | Aug. 10 days @ \$135/day | 1,350.00 | |
| R. Stefik | Aug. 20 days @ \$135/day | 2,700.00 | |
| T. B. Millinoff | Aug. 3½ days @ \$155/day | 542.50 | |
| B. Beattie | Aug. 4 days @ \$130/day | 520.00 | |
| D. Dancer | Aug. 2 days @ \$136/day | 272.00 | |
| J. Davis III | Aug. 3 days @ \$ 95/day | 285.00 | |
| C. Curtin (cook) | Aug. 9¼ days @ \$120/day | 1,110.00 | 12,579.50 |

ACCOMMODATIONS

| | | | |
|-------------|-------------------------|----------|----------|
| Camp Food | 74¼ man days @ \$23/day | 1,730.75 | |
| Camp Rental | 74¼ man days @ \$12/day | 903.00 | 2,633.75 |

EQUIPMENT RENTALS

| | | | |
|-----------------|----------------------|--------|--------|
| Radio-telephone | 2 x 9 days @ \$9/day | 162.00 | |
| Generator | 9 days @ \$7/day | 63.00 | 225.00 |

TRAVEL EXPENSES

3,042.79

EXPEDITING AND FREIGHT

1,495.97

DISPOSABLE SUPPLIES

743.00

AIRCRAFT SUPPORT

| | | | |
|----------------------------------|--|----------|----------|
| Fixed-wing | | 1,208.85 | |
| Helicopter | | 5,665.00 | |
| Camp mobilization/demobilization | | 2,000.00 | 8,873.85 |

TRENCHING PROGRAM

| | | | |
|---------------------------|--|----------|----------|
| Backhoe rental | | 3,250.00 | |
| Operator (Sherman Jaycox) | | 1,200.00 | 4,450.00 |

ASSAYS AND GEOCHEMISTRY

| | | | |
|--------------------------------|--|----------|-----------|
| Loring Laboratories Ltd. | | 1,007.80 | |
| TerraMin Research Labs Ltd. | | 8,479.70 | |
| Barringer-Magenta Laboratories | | 753.10 | 10,240.60 |

FILING FEES

460.00

TELEPHONE TOLLS

120.08

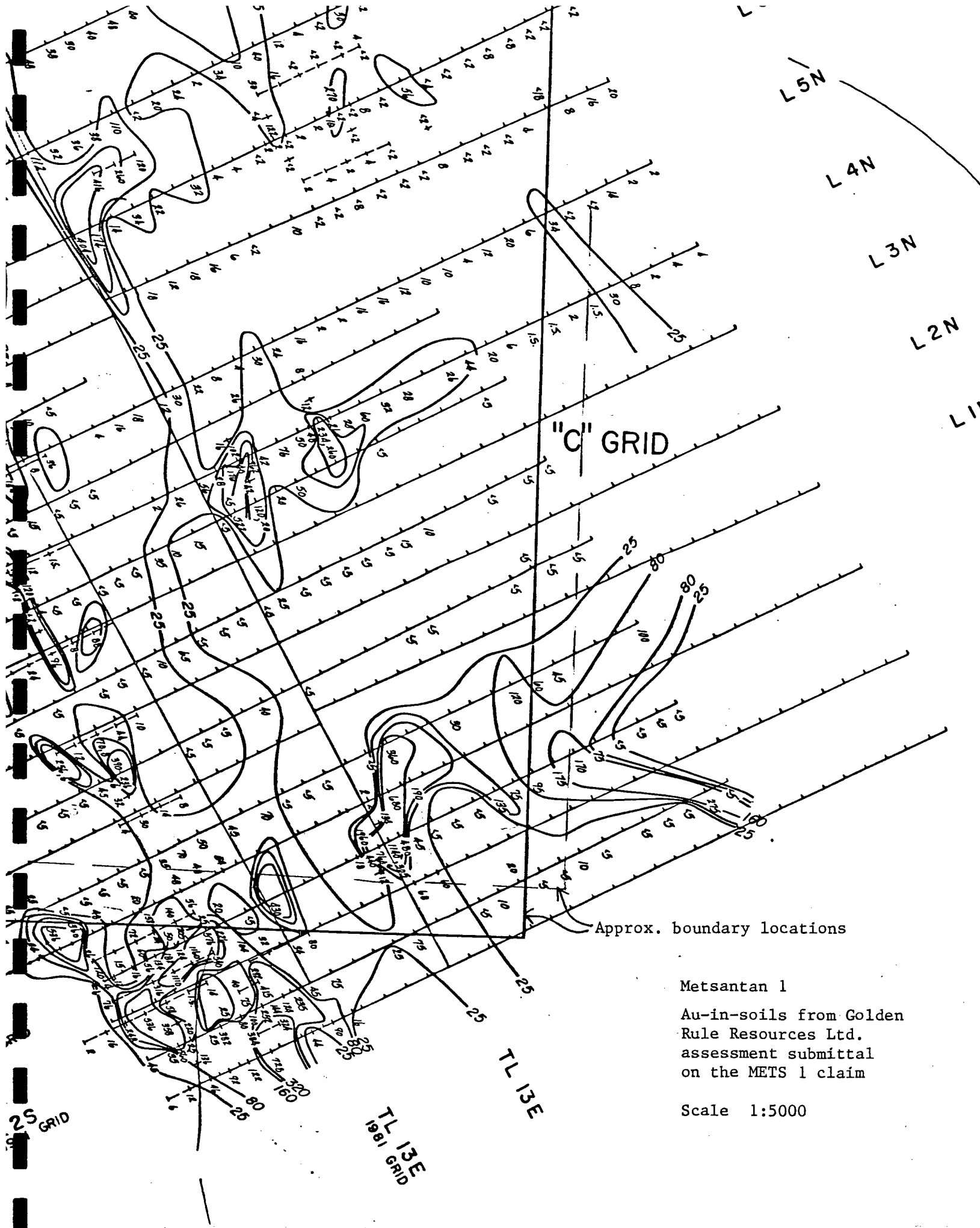
.../2

POST-FIELD

| | | | |
|--|---|--------------|---------------------|
| G. L. Wilson | 9 7/8 days @ \$220/day | 2,172.50 | |
| R. K. Netolitzky | 3 days @ \$325/day | 975.00 | |
| D. Porter | drafting 40 $\frac{1}{4}$ hrs @ \$24/hour | 966.00 | |
| L. Hopkins | drafting 3 $\frac{1}{2}$ hrs @ \$24/hour | <u>84.00</u> | 4,197.50 |
| Reproductions | | | 574.51 |
| Handling Charges on third-party billings | | | <u>596.26</u> |
| | | TOTAL | <u>\$ 53,320.31</u> |

A P P E N D I X V

Excerpts of
Previous Work
in the area



"C" GRID

Approx. boundary locations

Metsantan 1

Au-in-soils from Golden Rule Resources Ltd. assessment submittal on the METS 1 claim

Scale 1:5000

25 GRID

TL 13E
1981 GRID

TL 13E

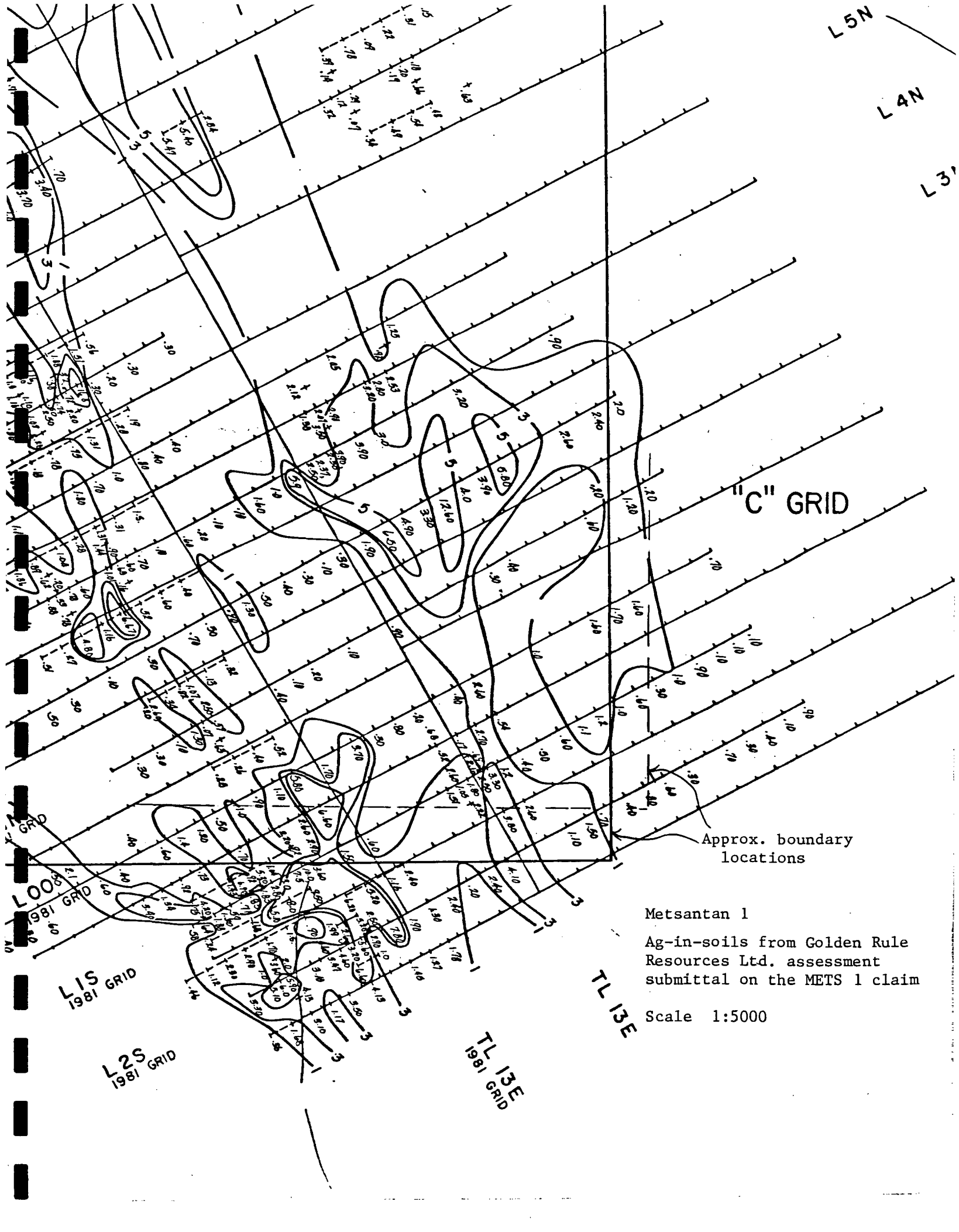
L5N

L4N

L3N

L2N

L1N



"C" GRID

Approx. boundary locations

Metsantan 1
Ag-in-soils from Golden Rule Resources Ltd. assessment
submittal on the METS 1 claim

Scale 1:5000

L1S
1981 GRID

L2S
1981 GRID

TL13E
1981 GRID

TL13E

L5N

L4N

L3N

L00S
1981 GRID

MANSON CREEK RESOURCES LTD.

150 - 1300 - 8th Street S.W., Calgary, Alberta T2R 1B2

Ph. (403) 228-4449

NEWS

For Release July 16, 1985

Contact Glen H. Harper (403) 228-4449

TRENCHING UNDERWAY ON HIGH GRADE GOLD PROSPECTS IN THE TOODOGGONE

An exploration program consisting of back-hoe trenching, mapping and sampling of high grade gold veins and boulder trains is currently in progress on the Mets Claim that is under option by Manson Creek Resources Ltd. Manson Creek can earn a fifty percent (50%) interest in the Mets Claim from Golden Rule Resources Ltd. by funding \$675,000 in exploration by December 31, 1987. Exploration to date has identified five zones that appear to have potential economic significance.

Zone A

This indicated vein system has been traced along strike for about 350 metres. Grab samples of vein material from apparent outcrop have ranged up to 1.135 ounces gold per ton, with minor silver values. The mineralized structure appears to be open to the northeast. This prospect will receive the highest priority during the summer field season.

Zone B

This boulder train extends along strike for 200 metres and contains low grade gold values and is thus of lower geological priority than the other zones.

Zone C

This boulder train is quite extensive having been traced for over 600 metres. An attempt at hand-trenching in this zone failed to reach fresh vein material.

Zone D

This boulder train contains vein material in outcrop assaying up to 0.61 ounces per ton gold.

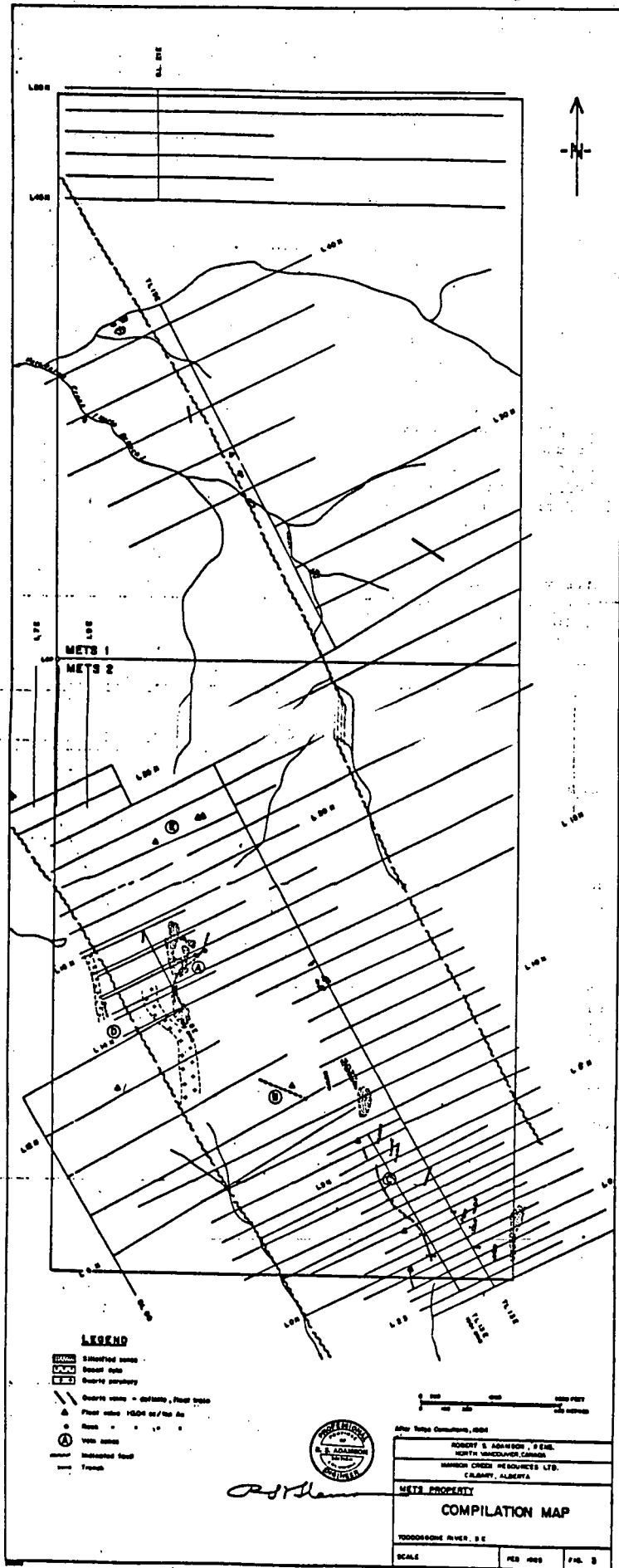
Zone E

This scattered boulder train has generated assays up to 0.83 ounces per ton gold. The coincident gold and silver geochemical anomaly suggests that the underlying vein system may be 250 metres in length.

It is evident that a number of veins of potential economic interest exist on the Mets Claim. The "A" zone appears to be the most promising at this time. The vein systems will be systematically trenched, sampled and geologically mapped to identify diamond drill targets. Additional soil geochemical surveys will also be undertaken. The first assays from the trench sampling are expected to be available in about two weeks.


Glen H. Harper, President
MANSON CREEK RESOURCES LTD.

This news release was prepared by the Board of Directors of the Company and the Board accepts the responsibility as to its accuracy. The Vancouver Stock Exchange has neither approved nor disapproved the information contained herein.



MANSON CREEK RESOURCES LTD.

150 - 1300 - 8th Street S.W., Calgary, Alberta T2R 1B2

Ph. (403) 228-4449

NEWS

For Release

August 15, 1985

Contact

Glen H. Harper (403)228-4449

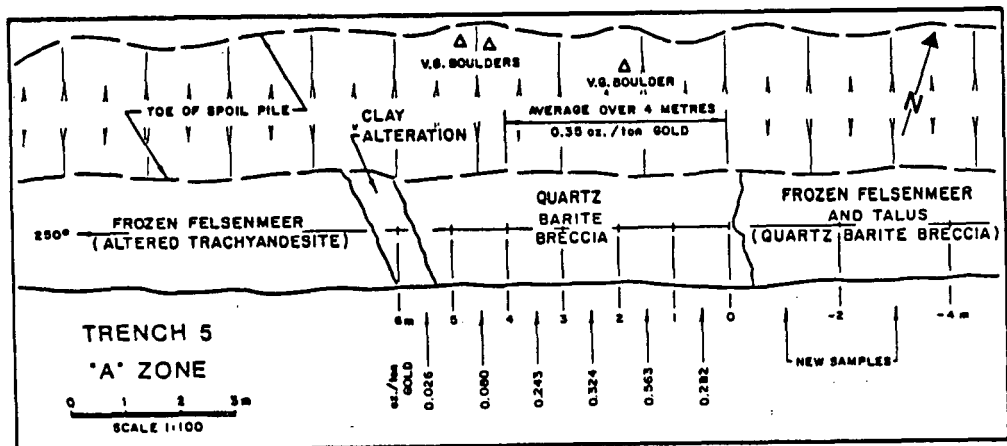
FIRST TRENCH ASSAYS RECEIVED FROM METS CLAIM IN THE TOODOGGONE

Partial assays have been received from Trench 5, indicating gold mineralization has been discovered in a barite-quartz system. The breccia zone has been opened up over a width of 10 metres (33 feet). Assays have been received for the first 6 metres (20 feet) and average 0.23 oz/ton gold. Within this section, the eastern 4 metres (12 feet) average 0.35 oz/ton gold. Assays on a further 4 metres (12 feet) are expected shortly. It appears that Trench 5 will have to be extended to the east should the gold mineralization continue. As of August 10th, a total of over 1,000 metres of back-hoe trenching has been completed in 23 trenches. Assay results have been received from sampling on Trench 1, and partial results on Trenches 2, 5 and 6. Additional assay results are expected shortly. Detailed soil geochemical surveying has also been completed and analytical results are awaited.

Prospecting has resulted in the discovery of eight additional boulders with visible gold in quartz-barite breccia.

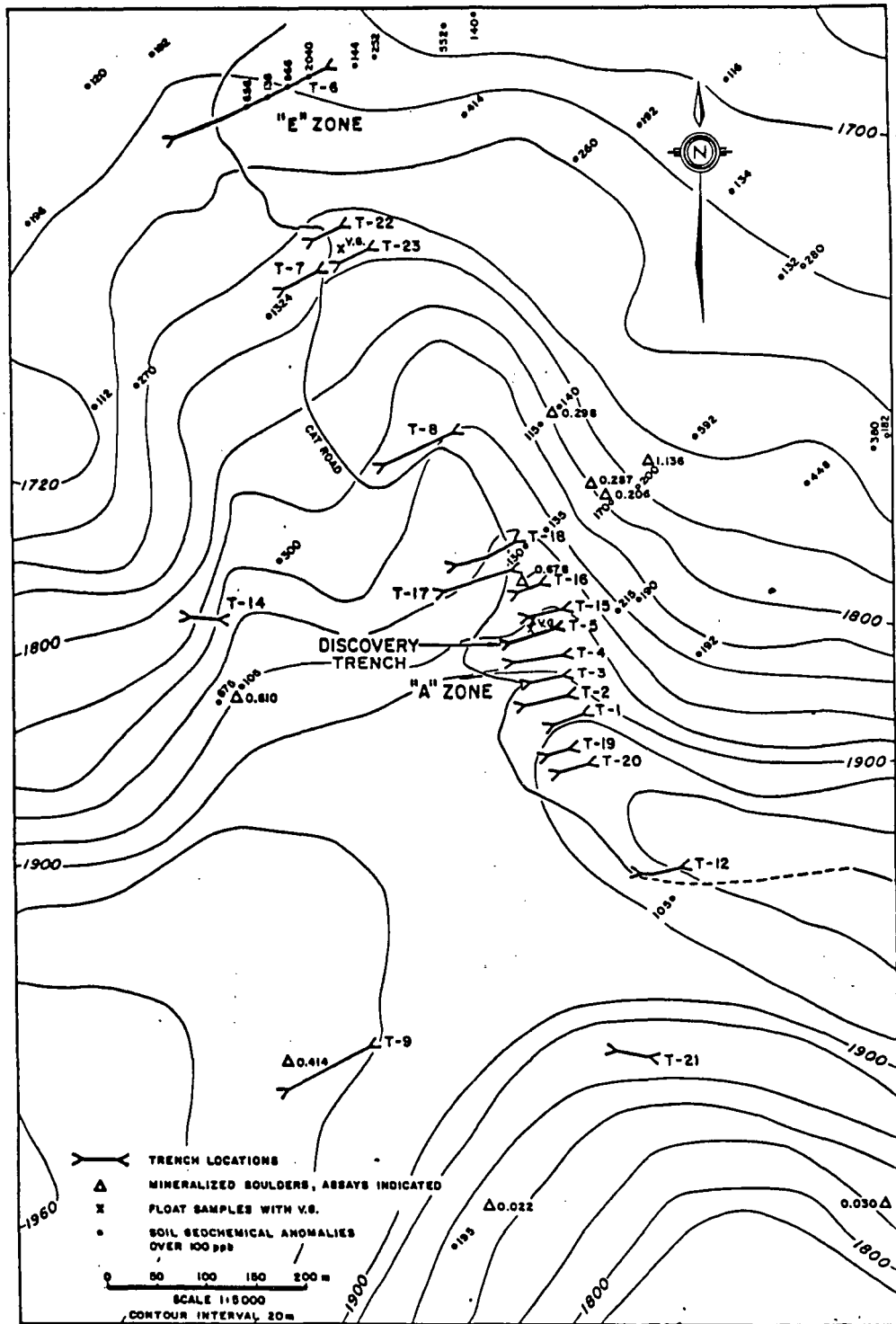
As further encouraging assays are received plans for a drilling program in the vicinity of Trench 5 will be formulated.

Manson Creek can earn a fifty percent (50%) interest in the Mets Claim from Golden Rule Resources Ltd. by funding \$675,000 in exploration by December 31, 1987. Exploration to date has identified five zones that appear to have potential economic significance.

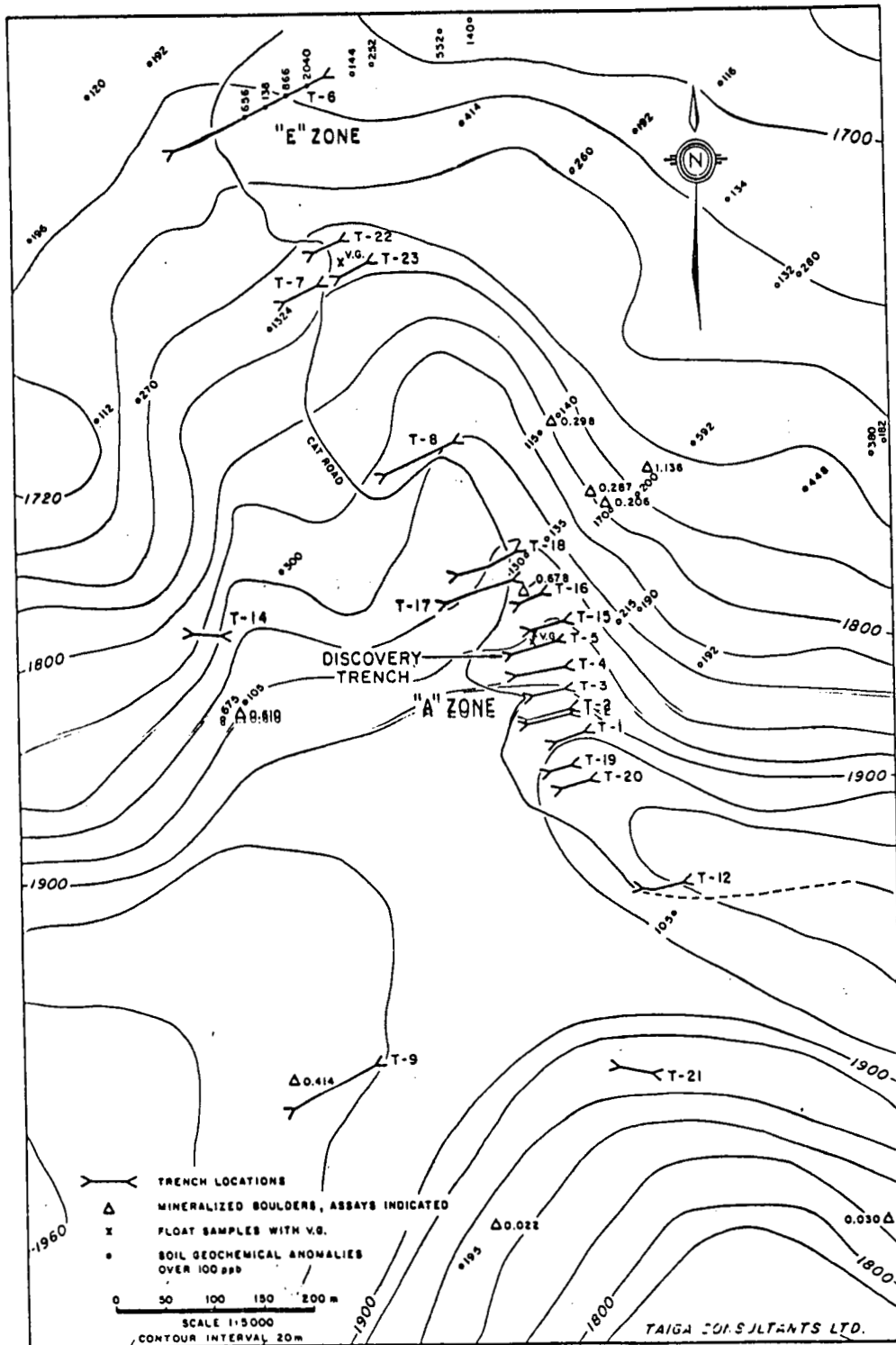


Glen H. Harper
Glen H. Harper, President
MANSON CREEK RESOURCES LTD.

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MANSON CREEK RESOURCES LTD.
 METS CLAIMS



MANSON CREEK RESOURCES LTD.
METS CLAIMS

MANSON CREEK RESOURCES LTD.

150 - 1300 - 8th Street S.W., Calgary, Alberta T2R 1B2

October 07, 1985

NEWS

For Release

Glen H. Harper

(403)228-4449

Contact

DRILLING COMPLETED ON METS PROPERTY IN THE TOODOGGONE

METS CLAIM

Four short diamond drill holes, totalling 754', have been completed to evaluate the depth potential of the gold-bearing breccia zone, discovered by back-hoe trenching in late August.

"A" Zone Drill Results

| <u>DDH</u> | <u>DIP</u> | <u>Bearing</u> | <u>T D-</u> | <u>Mineralized Core Interval</u> | <u>Length</u> | <u>Gold (oz/t)</u> |
|------------|------------|----------------|-------------|--------------------------------------|---------------|--------------------|
| 85-1 | 42.5° | 070° | 105' | Sanded in - Hole Lost | | |
| 85-1A | 50.0° | 080° | 257' | 152.5' - 172.5' | 20.0' | 0.24 |
| | | including | | 157.5' - 165.0' | 7.5' | 0.41 |
| 85-2 | 60.5° | 070° | 231' | 173.8' - 193.0' | 19.2' | 0.08 |
| 85-3 | 50.0° | 070° | 160' | 70.0' - 105.0' | 35.0' | 0.30 |
| | | including | | 70.0' - 77.5' | 7.5' | 0.85 |
| | | including | | 87.5' - 97.5' | 10.0' | 0.35 |

Further back-hoe trenching has located what appears to be the faulted offset of the "A" zone to the east. Gold bearing quartz-barite vein material has also been located by prospecting other areas of the property. Additional assays are pending from the trenching program that totalled 4340 lineal feet of trenching, consisting of 34 back-hoe trenches.

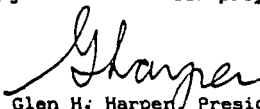
BELLE CLAIM

A program of prospecting, geochemical surveying, geological mapping and sampling has been completed. Several quartz veins and quartz breccia zones have been located and sampled. Some of the more interesting grab samples include:

| <u>Sample No.</u> | <u>Gold (Oz/t)</u> | <u>Silver (oz/t)</u> |
|-------------------|--------------------|----------------------|
| B-TM-13 | 0.17 | 1.72 |
| B-TM-14 | 0.27 | 0.88 |
| B-TM-15 | 3.12 | 3.01 |
| B-TM-16 | 0.82 | 1.49 |
| B-TM-17 | 0.28 | 1.37 |
| B-TM-18 | 0.41 | 1.08 |

Several areas of anomalous soil geochemical values have also been located. Further sampling will be necessary to delineate trenching targets.

Manson Creek Resources Ltd. holds an option to earn a 50% working interest in the Mets and Belle Claims from Golden Rule Resources Ltd., by funding a total of \$975,000 in exploration by December 31, 1987. Manson Creek has completed its minimum commitments for 1985 by funding a total of over \$200,000 in exploration. Upon completing the analysis and interpretation of the data collected to date, plans will be initiated for a major diamond drill program for the 1986 exploration season.



Glen H. Harper, President

MANSON CREEK RESOURCES LTD.

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MANSON CREEK RESOURCES LTD.

150 - 1300 - 8th Street S.W., Calgary, Alberta T2R 1B2

Ph. (403) 228-4449

NEWS

For Release September 2, 1985

Contact Glen H. Harper (403)228-4449

MANSON CREEK TO DRILL GOLDEN RULE TOODOGGONE PROPERTY

Drilling is planned to begin on September 3, 1985, on the Mets Claim. Partial assay results from trenching to date on the A Zone indicate high grade gold mineralization in a quartz-barite breccia over a strike length of at least 150 feet. The mineralized zone has been partially exposed by backhoe trenching.

Trench 5

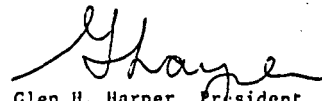
Assays from the first 6 metres (20 feet) average 0.23 oz/ton gold. Within this section, there is a 4 metre (12 feet) section averaging 0.35 oz/ton gold. Assays on a further 4 metres (12 feet) are expected shortly.

Trench 15

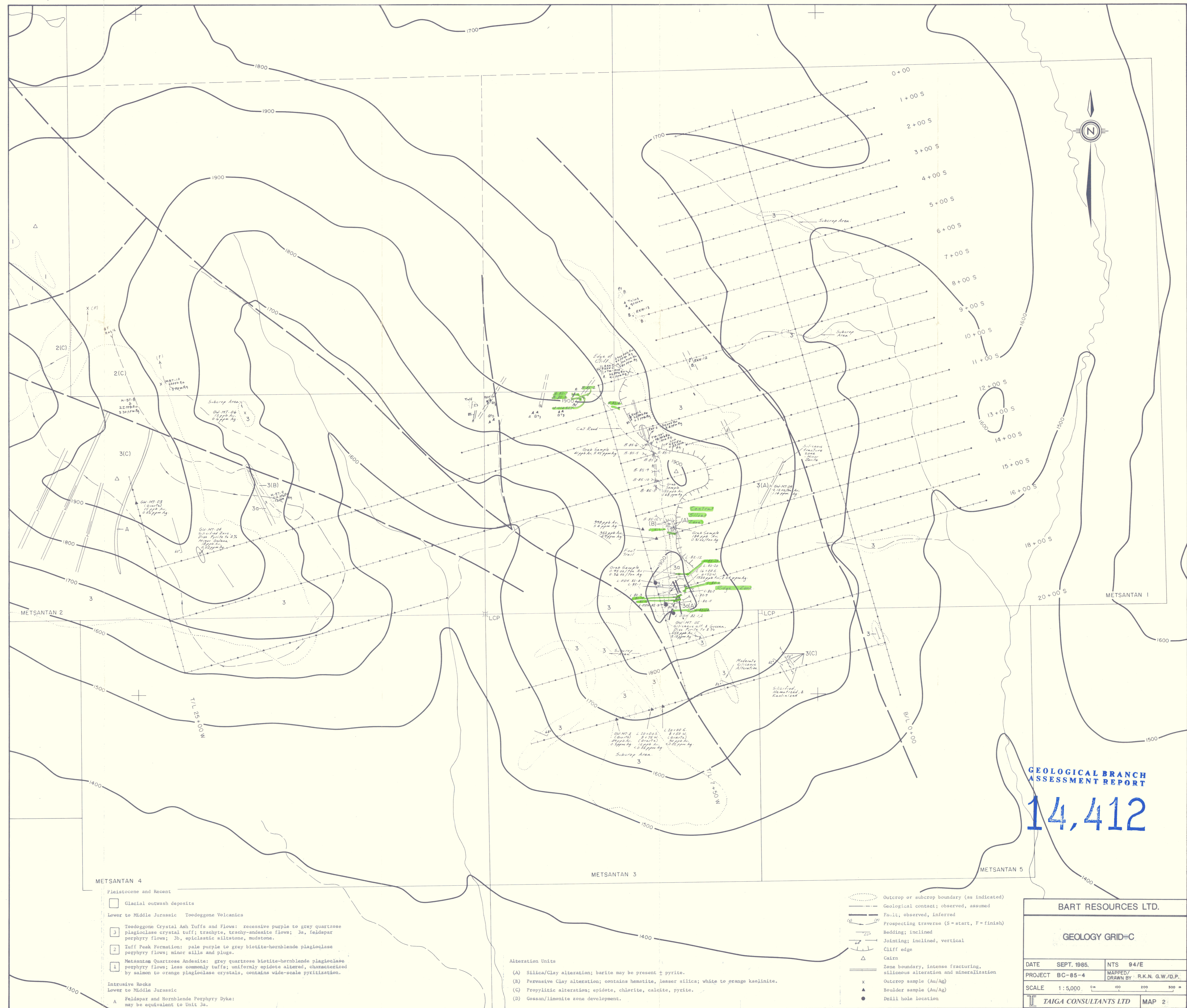
Assays from a 9 metre (30 feet) section average 0.22 oz/ton gold. Within this section a 3 metre (9 feet) section averages 0.49 oz/ton gold. Assays on a further 2 metres (6.5 feet) are awaited.

Trench 15 is about thirty metres north of Trench 5. These trenches have been extended and sampled and further trenching is in progress.

An initial four hole diamond drilling program should start on September 3, 1985 to evaluate the depth potential of the mineralized quartz-barite breccia zone. A private placement of "flow through" shares has been negotiated to provide funds for this drill program.


Glen H. Harper, President
MANSON CREEK RESOURCES LTD.

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- METSANTAN 4**
- Pleistocene and Recent
- Glacial outwash deposits
- Lower to Middle Jurassic Toedoggone Volcanics
- 3 Toedoggone Crystal Ash Tuffs and Flows: recessive purple to grey quartzose plagioclase crystal tuff; trachyte, trachy-andesite flows; 3a, feldspar porphyry flows; 3b, epiclastic siltstone, mudstone.
 - 2 Tuff Peak Formation: pale purple to grey biotite-hornblende plagioclase porphyry flows; minor sills and plugs.
 - 1 Metsantan Quartzose Andesite: grey quartzose biotite-hornblende plagioclase porphyry flow; less commonly tuff; uniformly epidote altered, characterized by salmon to orange plagioclase crystals, contains wide-scale pyritization.
- Intrusive Rocks
- Lower to Middle Jurassic
- A Feldspar and Hornblende Porphyry Dyke: may be equivalent to Unit 3a.

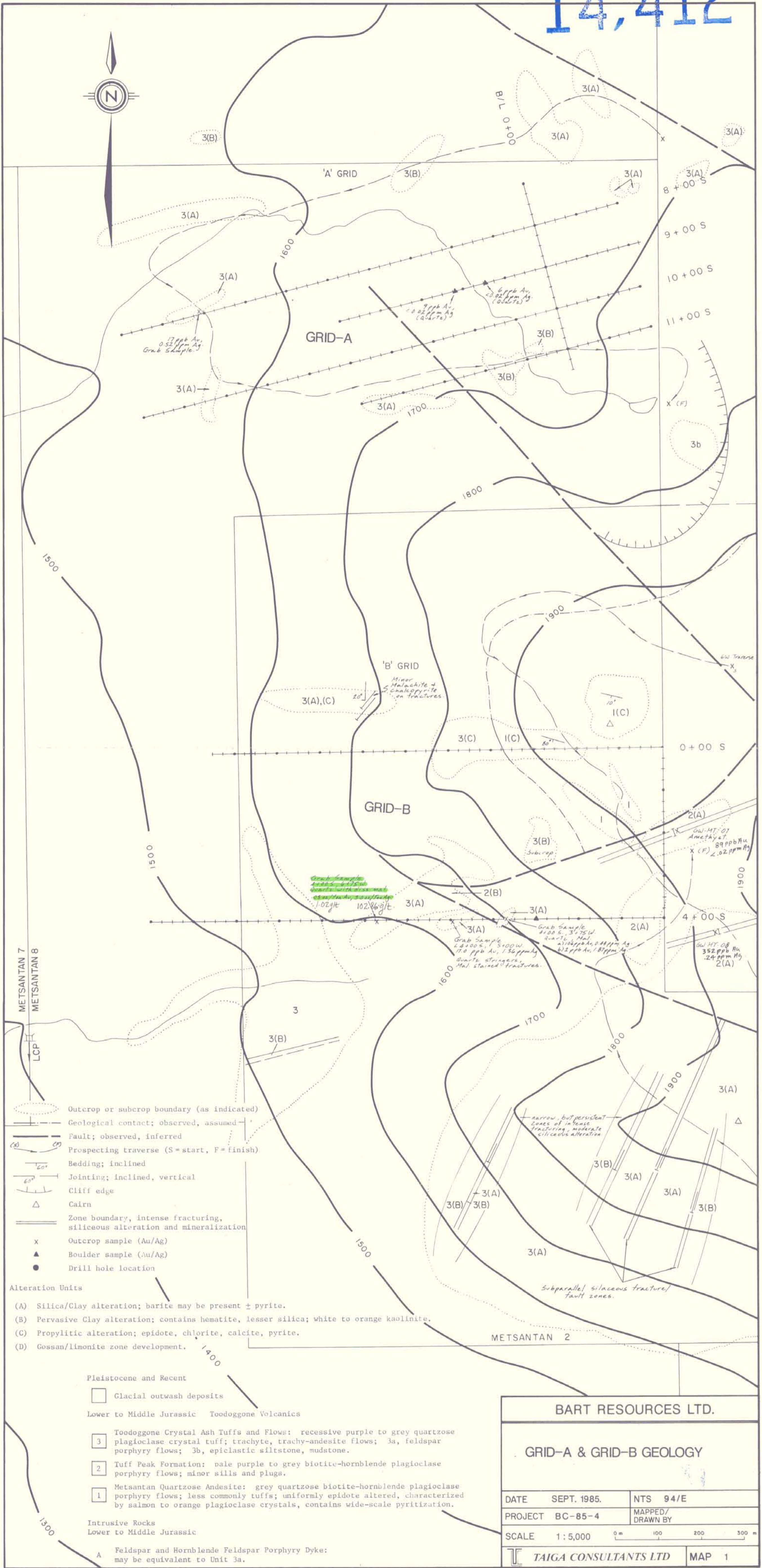
- Alteration Units**
- (A) Silica/Clay alteration; barite may be present + pyrite.
 - (B) Pervasive Clay alteration; contains hematite, lesser silica; white to orange kaolinite.
 - (C) Propylitic alteration; epidote, chlorite, calcite, pyrite.
 - (D) Gossan/limonite zone development.

- Outcrop or subcrop boundary (as indicated)
- Geological contact; observed, assumed
- - - Fault; observed, inferred
- Prospecting traverse (S = start, F = finish)
- Bedding; inclined
- Jointing; inclined, vertical
- Cliff edge
- △ Cairn
- Zone boundary, intense fracturing, siliceous alteration and mineralization
- x Outcrop sample (Au/Ag)
- ▲ Boulder sample (Au/Ag)
- Drill hole location

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,412

| | | | |
|-----------------------|-------------|-----------------|------------------|
| BART RESOURCES LTD. | | | |
| GEOLOGY GRID=C | | | |
| DATE | SEPT. 1985. | NTS | 94/E |
| PROJECT | BC-85-4 | MAPPED/DRAWN BY | R.K.N. G.W./D.P. |
| SCALE | 1:5,000 | 0m | 100 200 300 m |
| TAIGA CONSULTANTS LTD | | | MAP 2 |



- Outcrop or subcrop boundary (as indicated)
- Geological contact; observed, assumed
- Fault; observed, inferred
- Prospecting traverse (S = start, F = finish)
- Bedding; inclined
- Jointing; inclined, vertical
- Cliff edge
- Cairn
- Zone boundary, intense fracturing, siliceous alteration and mineralization
- Outcrop sample (Au/Ag)
- Boulder sample (Au/Ag)
- Drill hole location

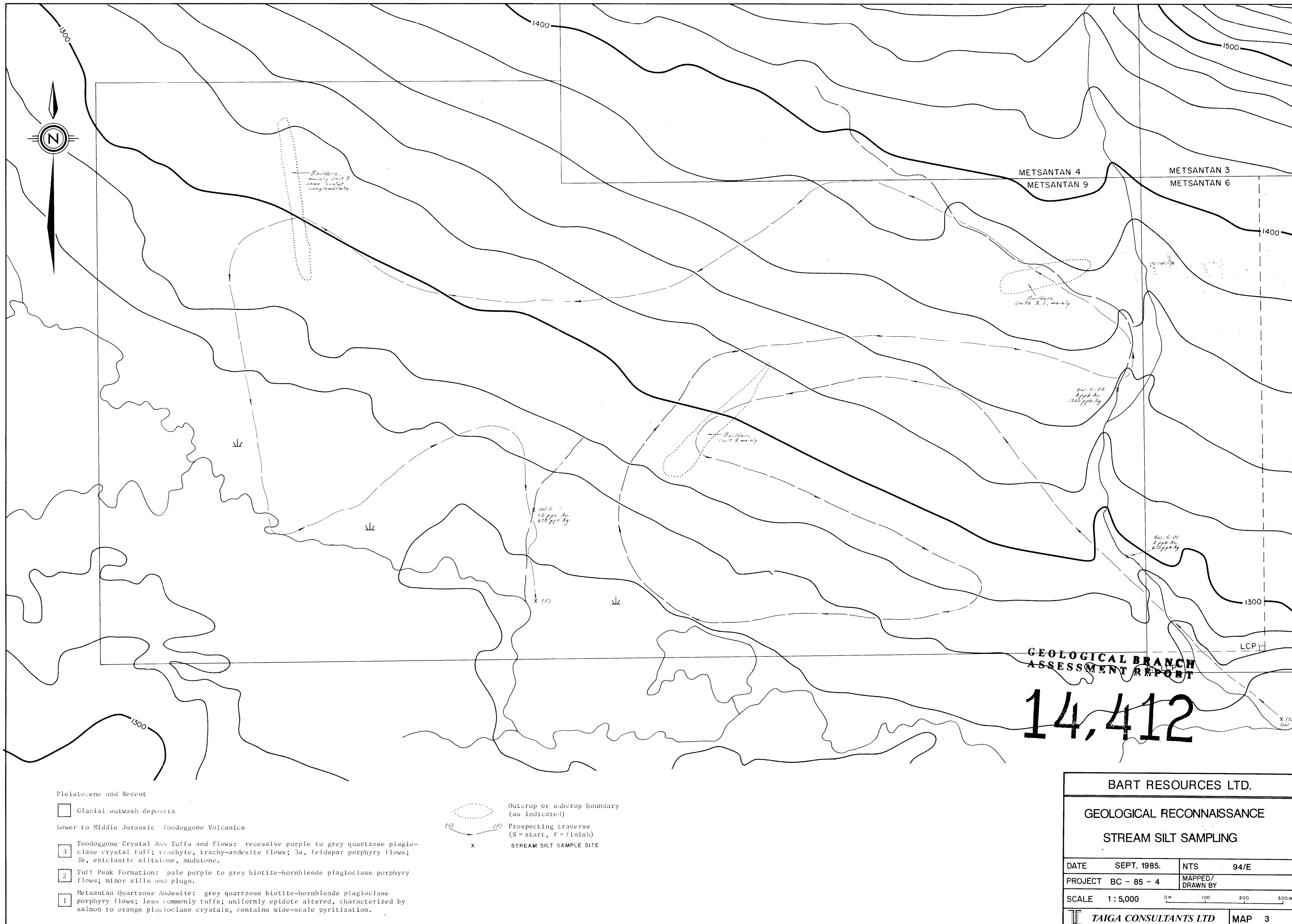
- Alteration Units
- (A) Silica/Clay alteration; barite may be present ± pyrite.
 - (B) Pervasive Clay alteration; contains hematite, lesser silica; white to orange kaolinite.
 - (C) Propylitic alteration; epidote, chlorite, calcite, pyrite.
 - (D) Gossan/limonite zone development.

- Pleistocene and Recent
- Glacial outwash deposits
- Lower to Middle Jurassic Toodoggone Volcanics
- Toodoggone Crystal Ash Tuffs and Flows: recessive purple to grey quartzose plagioclase crystal tuff; trachyte, trachy-andesite flows; 3a, feldspar porphyry flows; 3b, epiclastic siltstone, mudstone.
 - Tuff Peak Formation: pale purple to grey biotite-hornblende plagioclase porphyry flows; minor sills and plugs.
 - Metsantan Quartzose Andesite: grey quartzose biotite-hornblende plagioclase porphyry flows; less commonly tuffs; uniformly epidote altered, characterized by salmon to orange plagioclase crystals, contains wide-scale pyritization.
- Intrusive Rocks
- Lower to Middle Jurassic
- Feldspar and Hornblende Feldspar Porphyry Dyke: may be equivalent to Unit 3a.

BART RESOURCES LTD.

GRID-A & GRID-B GEOLOGY

| | | |
|---------|-------------|-----------------------|
| DATE | SEPT. 1985. | NTS 94/E |
| PROJECT | BC-85-4 | MAPPED/ DRAWN BY |
| SCALE | 1:5,000 | 0 m 100 200 300 m |
| | | TAIGA CONSULTANTS LTD |
| | | MAP 1 |



Pleistocene and Recent

□ Glacial outwash deposits

Lower to Middle Jurassic Toadoggone Volcanics

- 3 Toadoggone Crystal Ash Tuffs and Flows: recessive purple to grey quartzose plagioclase crystal tuff; trachyte, trachy-andesite flows; 3a, feldspar porphyry flows; 3b, epiclastic siltstone, mudstone.
- 2 Tuff Peak Formation: pale purple to grey biotite-hornblende plagioclase porphyry flows; minor sills and plugs.
- 1 Metsantan Quartzose Andesite: grey quartzose biotite-hornblende plagioclase porphyry flows; less commonly tuffs; uniformly epidote altered, characterized by salmon to orange plagioclase crystals, contains wide-scale pyritization.

○ Outcrop or subcrop boundary (as indicated)

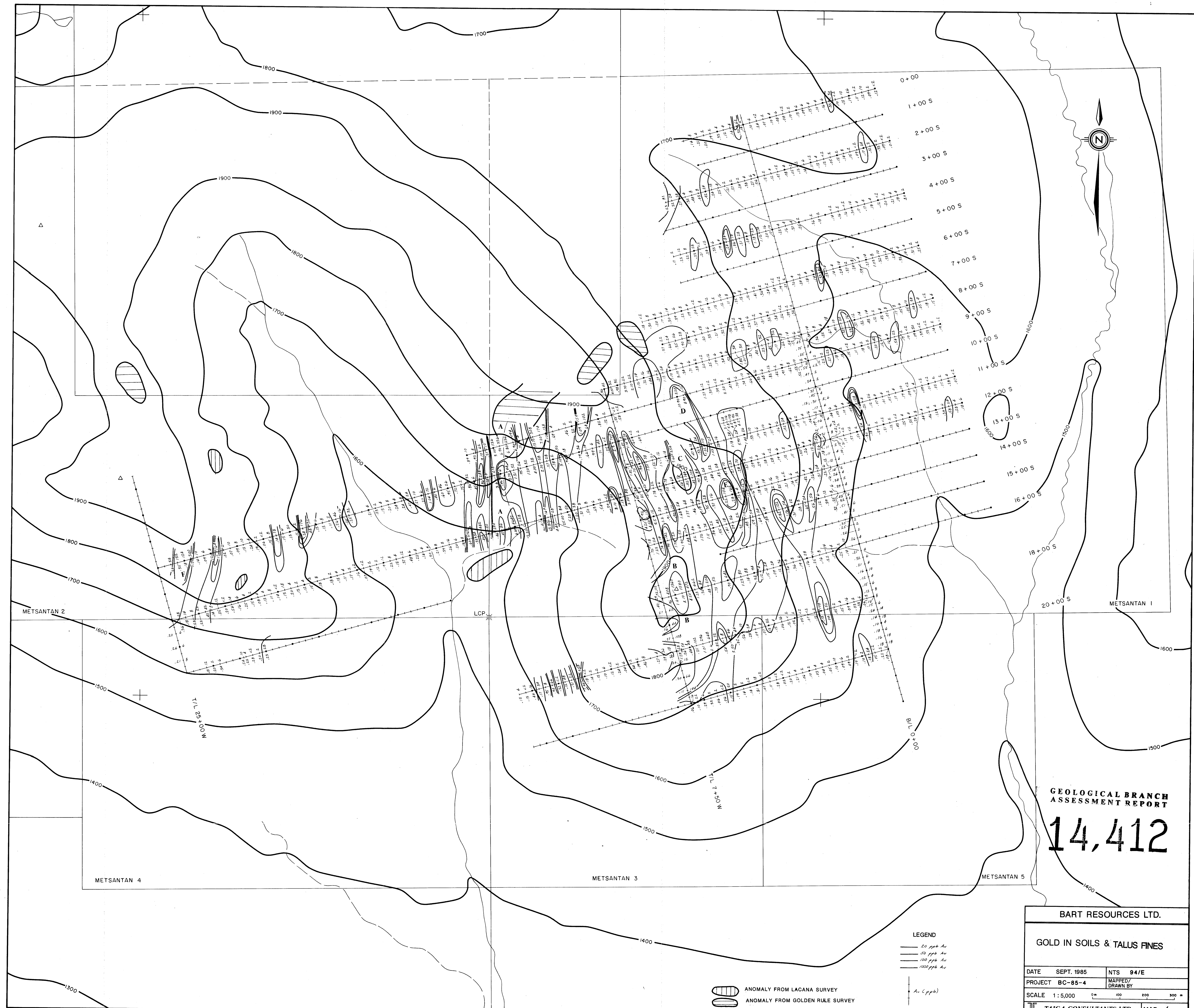
—(S)—(F)— X STREAM SILT SAMPLE SITE

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,412

| | | | |
|---------------------------|-------------|---------------------|--------------|
| BART RESOURCES LTD. | | | |
| GEOLOGICAL RECONNAISSANCE | | | |
| STREAM SILT SAMPLING | | | |
| DATE | SEPT. 1985. | NTS | 94/E |
| PROJECT | BC - 85 - 4 | MAPPED/ DRAWN BY | |
| SCALE | 1:5,000 | 0m | 100 200 300m |
| TAIGA CONSULTANTS LTD | | | MAP 3 |

564



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,412

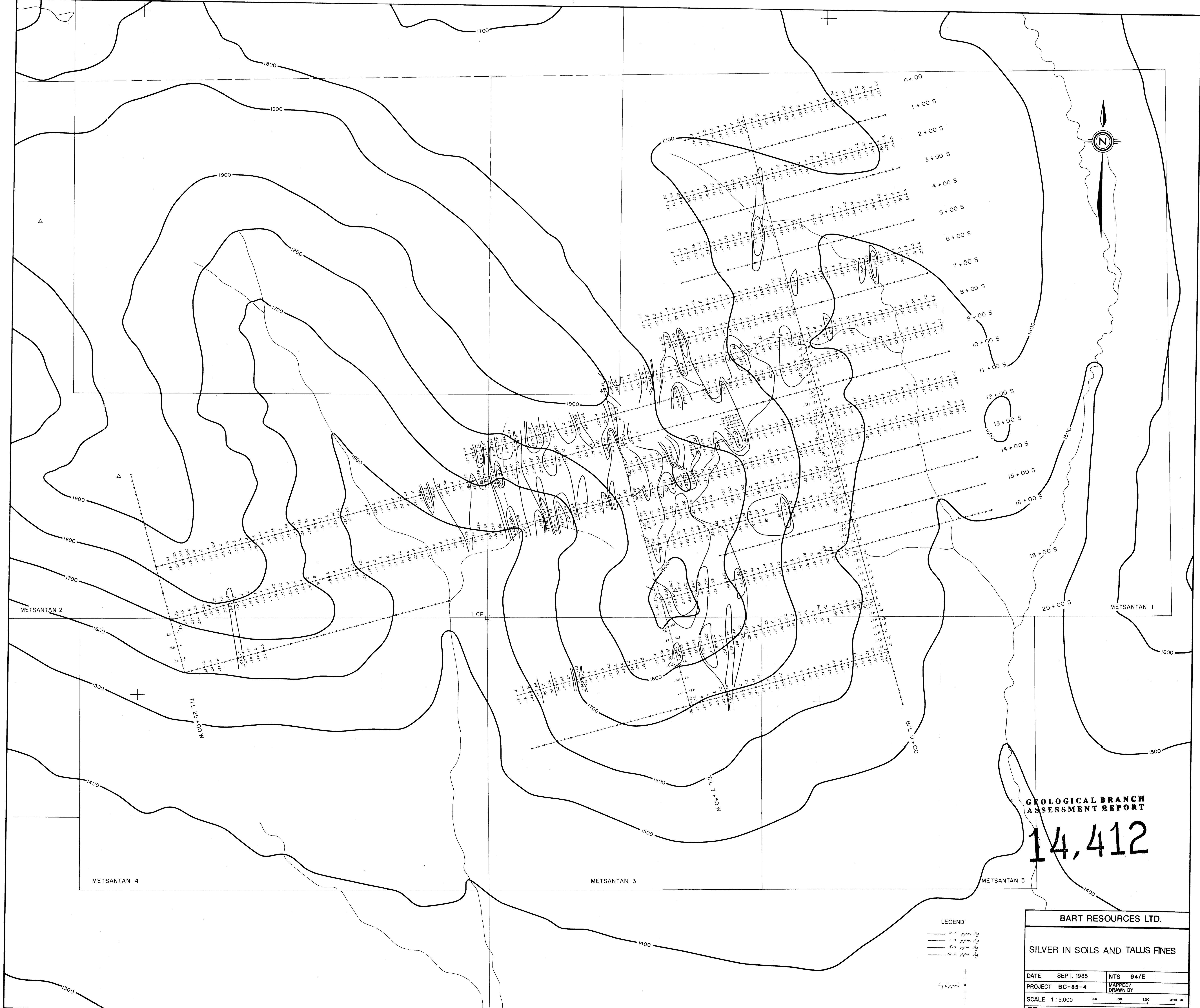
BART RESOURCES LTD.

GOLD IN SOILS & TALLUS FINES

| | | | |
|---------|------------|-----------------------|------|
| DATE | SEPT. 1985 | NTS | 94/E |
| PROJECT | BC-85-4 | MAPPED BY | |
| SCALE | 1:5,000 | DRAWN BY | |
| | | 0 100 200 300 | |
| | | TAIGA CONSULTANTS LTD | |
| | | MAP 4 | |

- LEGEND**
- 20 ppb Au
 - 50 ppb Au
 - 100 ppb Au
 - 200 ppb Au
 - Au (ppb)

- ANOMALY FROM LACANA SURVEY
- ANOMALY FROM GOLDEN RULE SURVEY



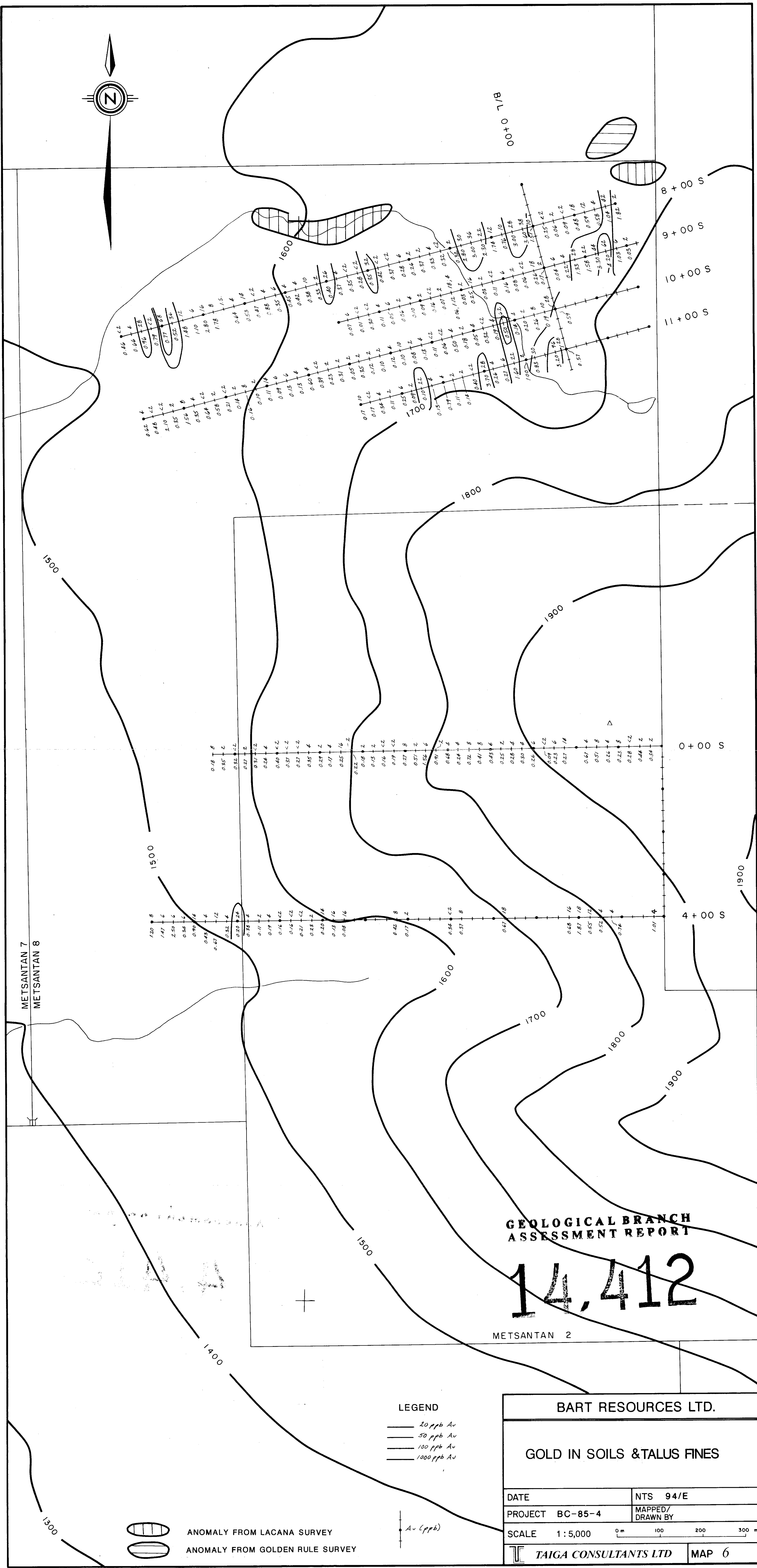
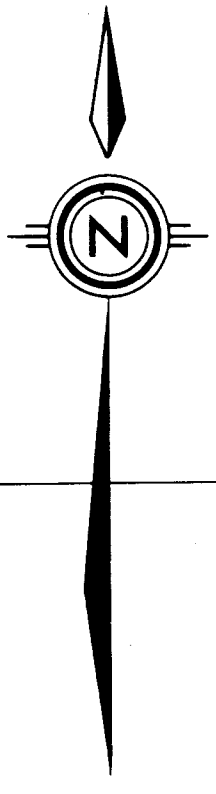
GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,412

- LEGEND
- 0.5 ppm Ag
 - 1.0 ppm Ag
 - 5.0 ppm Ag
 - 10.0 ppm Ag

Ag (ppm)

| | |
|---------------------------------|------------|
| BART RESOURCES LTD. | |
| SILVER IN SOILS AND TALUS FINES | |
| DATE | SEPT. 1985 |
| PROJECT | BC-85-4 |
| SCALE | 1:5,000 |
| NTS | 94/E |
| MAPPED/ DRAWN BY | |
| TAIGA CONSULTANTS LTD MAP 5 | |









METSANTAN 7
METSANTAN 8

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,412

METSANTAN 2

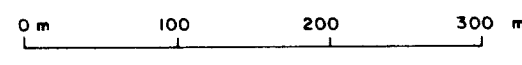

-  ANOMALY FROM LACANA SURVEY
-  ANOMALY FROM GOLDEN RULE SURVEY

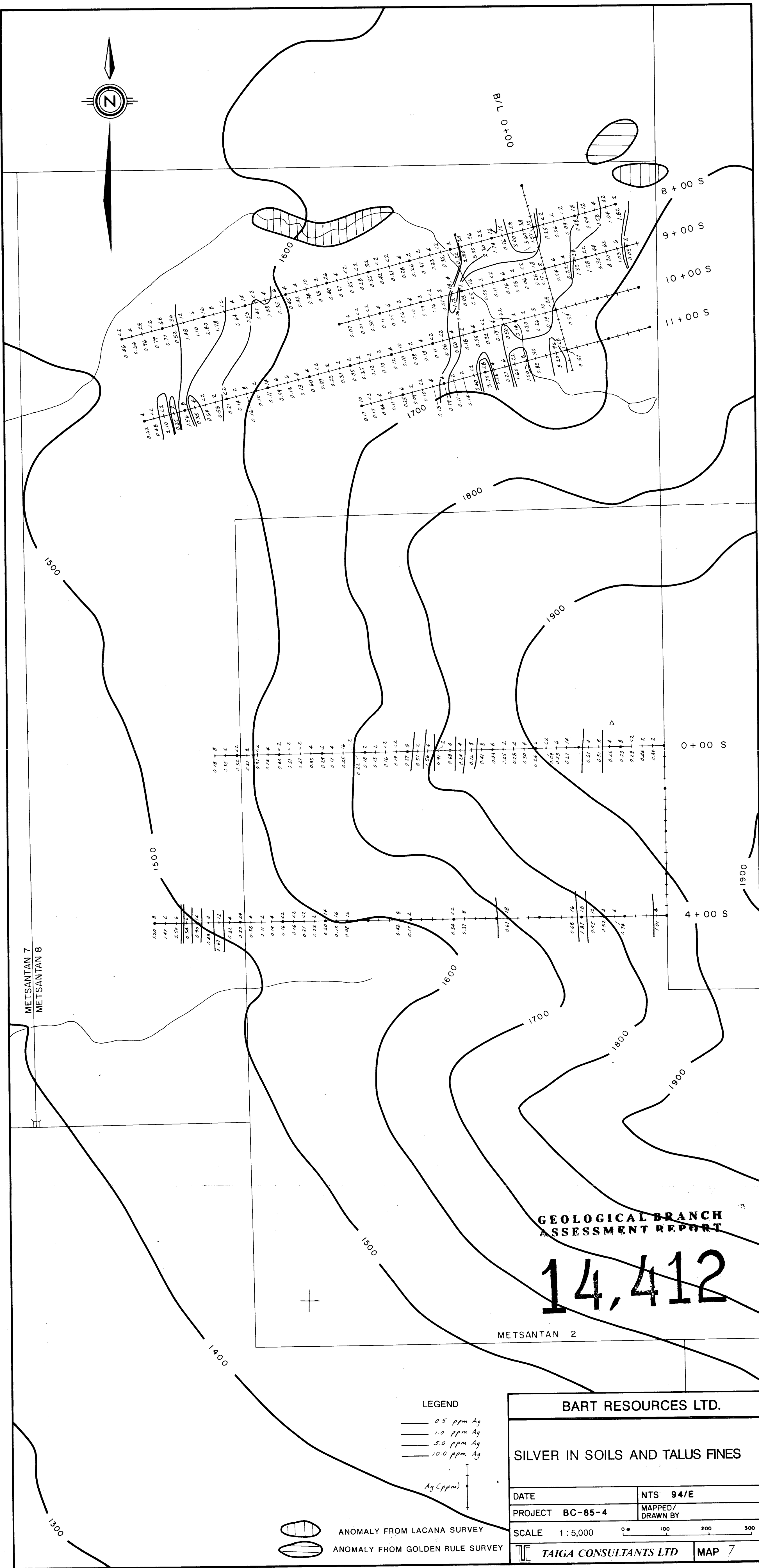
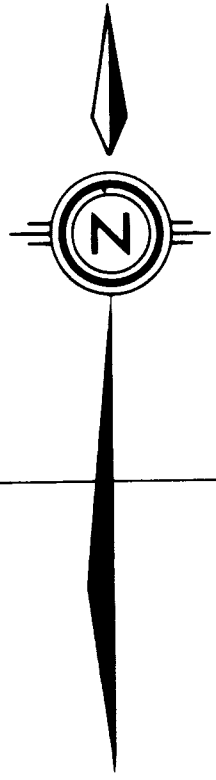
- LEGEND**
-  20 ppb Au
 -  50 ppb Au
 -  100 ppb Au
 -  1000 ppb Au

Au (ppb)

BART RESOURCES LTD.

GOLD IN SOILS & TALUS FINES

| | |
|---|----------|
| DATE | NTS 94/E |
| PROJECT | BC-85-4 |
| MAPPED/DRAWN BY | |
| SCALE | 1:5,000 |
|  | |
|  TAIGA CONSULTANTS LTD | MAP 6 |



GEOLOGICAL BRANCH
ASSESSMENT REPORT

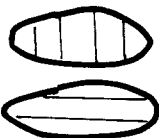
14,412

METSANTAN 2

LEGEND

- 0.5 ppm Ag
- 1.0 ppm Ag
- 5.0 ppm Ag
- 10.0 ppm Ag

Ag (ppm)



ANOMALY FROM LACANA SURVEY

ANOMALY FROM GOLDEN RULE SURVEY

BART RESOURCES LTD.

SILVER IN SOILS AND TALUS FINES

DATE NTS 94/E

PROJECT BC-85-4 MAPPED/
DRAWN BY

SCALE 1:5,000 0m 100 200 300m

TAIGA CONSULTANTS LTD

MAP 7