# GEOLOGICAL SUMMARY REPORT

## on the

# EVELYN CREEK PROPERTY
## (BOBO CLAIMS GROUP)

**South Canol Road Area**
**Whitehorse Mining District**
**Yukon Territory**
**Lat. 60°40'/Long. 133° 21'**
**N.T.S. 105C/14**

**for**

**B. POULIN**
**TONYCASTLE LTD.**
**General Delivery**
**Mile 836, Alaska Highway**
**Johnsons Crossing, Yukon**
**Y1A 9Z2**
**Phone: (403) 390-2607 (Messages)**

**Prepared by**

**J.T. SHEARER, M.Sc., P.Geo.**
**NEW GLOBAL RESOURCES LTD.**
**#5-2330 Tyner St.**
**Port Coquitlam, BC**
**V3C 2Z1**

**April 10, 1995**

# TABLE OF CONTENTS

# LIST OF ILLUSTRATIONS AND TABLES

# SUMMARY

The Evelyn Creek Property (Bobo claims) are situated between Evelyn Creek and Sidney Creek, , Yukon, approximately 25 km directly north of Johnsons Crossing or 98 km east of Whitehorse, N.T.S. Sheet 105 C/14, Latitude 60°46', Longitude 133°15'.

Access is by a 10km dirt road which starts from km 44 immediately north of the Evelyn Creek Bridge on the South Canol Road. The South Canol Road joins the Alaska Highway at Johnsons Crossing (mile 836) which is 110 km by road east of Whitehorse.

The Evelyn creek property has been held for many years by B.Poulin and Associates (Tonycastle Ltd.) during which time both the placer and hardrock mineral potential has been investigated. Previous work has included extensive road building, bulldozer trenching, blasting, placer production and camp-shop construction. Although limited soil sampling, the results of which are not currently available, has been apparently undertaken in the past, no detailed geological mapping has been completed on the property nor has the previous work been supervised by a qualified professional.

The claims are underlain by chloritic altered volcanics, micateous quartzites and limestone belonging to the Big Salmon Metamorphic Complex.

A limited program of rock, soil sampling and prospecting was completed by New Global Resources personnel in September 1992. The results indicate anomalous barium in one rock specimen and anomalous molybdenum and lead in soils. The 1994 program consisted (from verbal information supplied by Mr. Poulin) of extending existing trenches and cutting new excavations by bulldozer westward toward Grayling Lake using a $20,000 Yukon Economic Development prospectors grant.

Future work should include an initial reconnaissance geological mapping program at a scale of 1:5,000 in conjunction with wide-ranging rock sampling. This type of mapping can be used to define the general structural and lithological parameters which is needed before any further physical is considered.

Respectfully submitted,

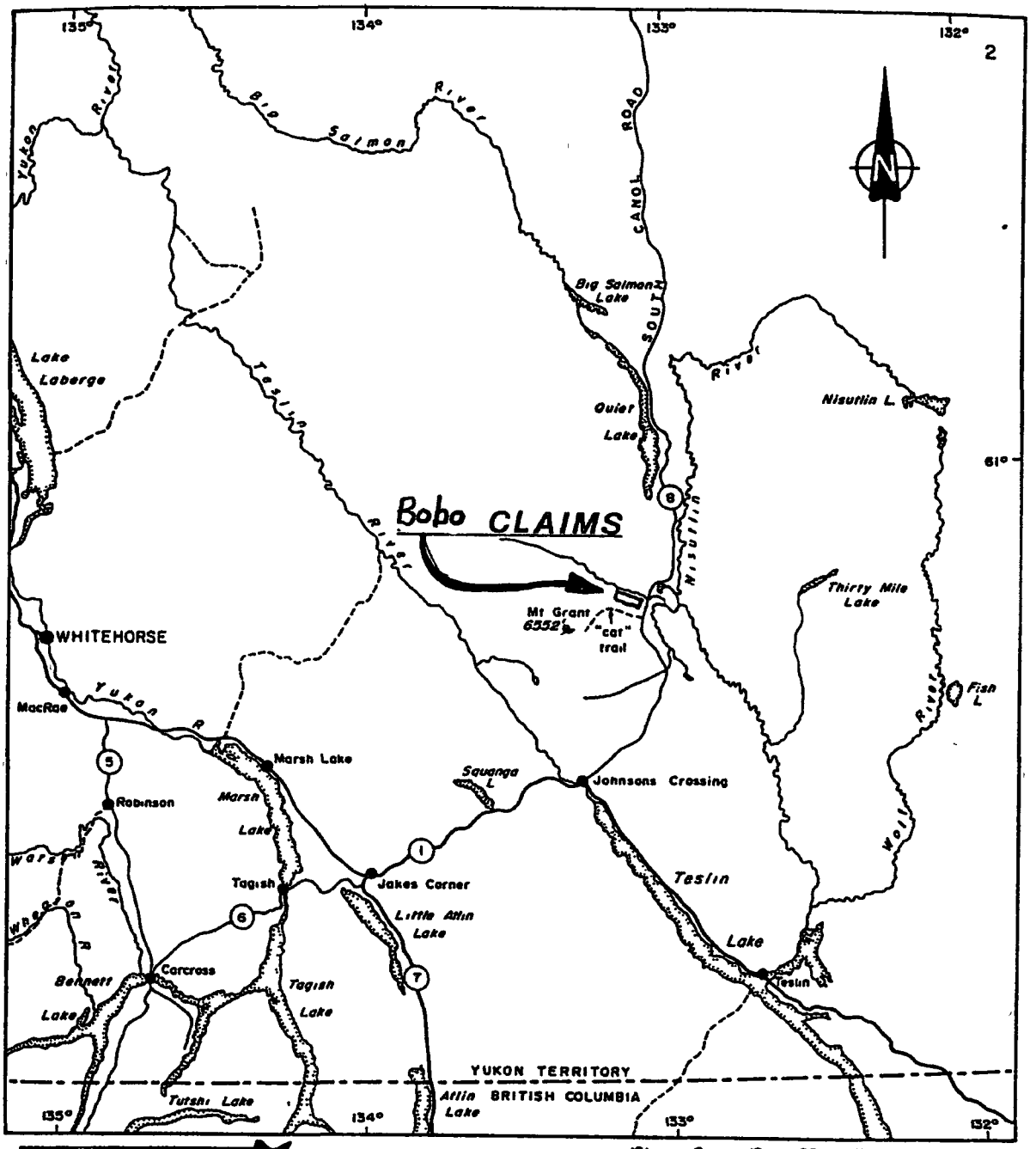
J.T. Shearer, M.Sc., P.Geo

# INTRODUCTION

This Geological Summary Report has been prepared at the request of B. Poulin of Tonycastle Limited as a review of previous exploration work, 1994 work and the regional geological environment. Results of a limited sampling program conducted by New Global Resources personnel in 1992 are also presented along with recommendations for an orderly assessment of the mineral potential. The most recent work was conducted by Mr. Poulin in 1994 using a $20,000 Yukon Economic Development prospectors grant. This work as outlined by Mr. Poulin (verbal communication) consisted of further bulldozer trenching and limited sampling. The sample locations (sample 1-4) have been plotted by Mr. Poulin on the claim map. The only previous geological report on the property in Mr. Poulin's possession is petrographic work by Breuer (1984?).

The claims are underlain by the Big Salmon Metamorphic Complex which has been cut by later felsic and ultramafic intrusives. Previous regional work has recognized potential for precious metal (Au/Ag) veins, structurally controlled quartz-carbonate replacement zones, and polymetallic syngenetic massive sulfide deposits in the Big Salmon Complex.

Infrastructure put in place by Mr. Poulin includes a very large expertly constructed log cabin, enclosed sluice box and mechanical shop and large cleared area for storage of equipment.
The ease of undertaking exploration work has been greatly increased by recent road construction done by Mr. Poulin.




# TONYCASTLE LTD.

## EVELYN CREEK CLAIMS

## LOCATION MAP

| SCALE | DATE | N.T.S. | Figure: |
|---|---|---|---|
| 1:1,000,000 | Dec. '92 | 105C/14 | 1 |

Geology: New Global Resources Ltd.

## LOCATION AND ACCESS

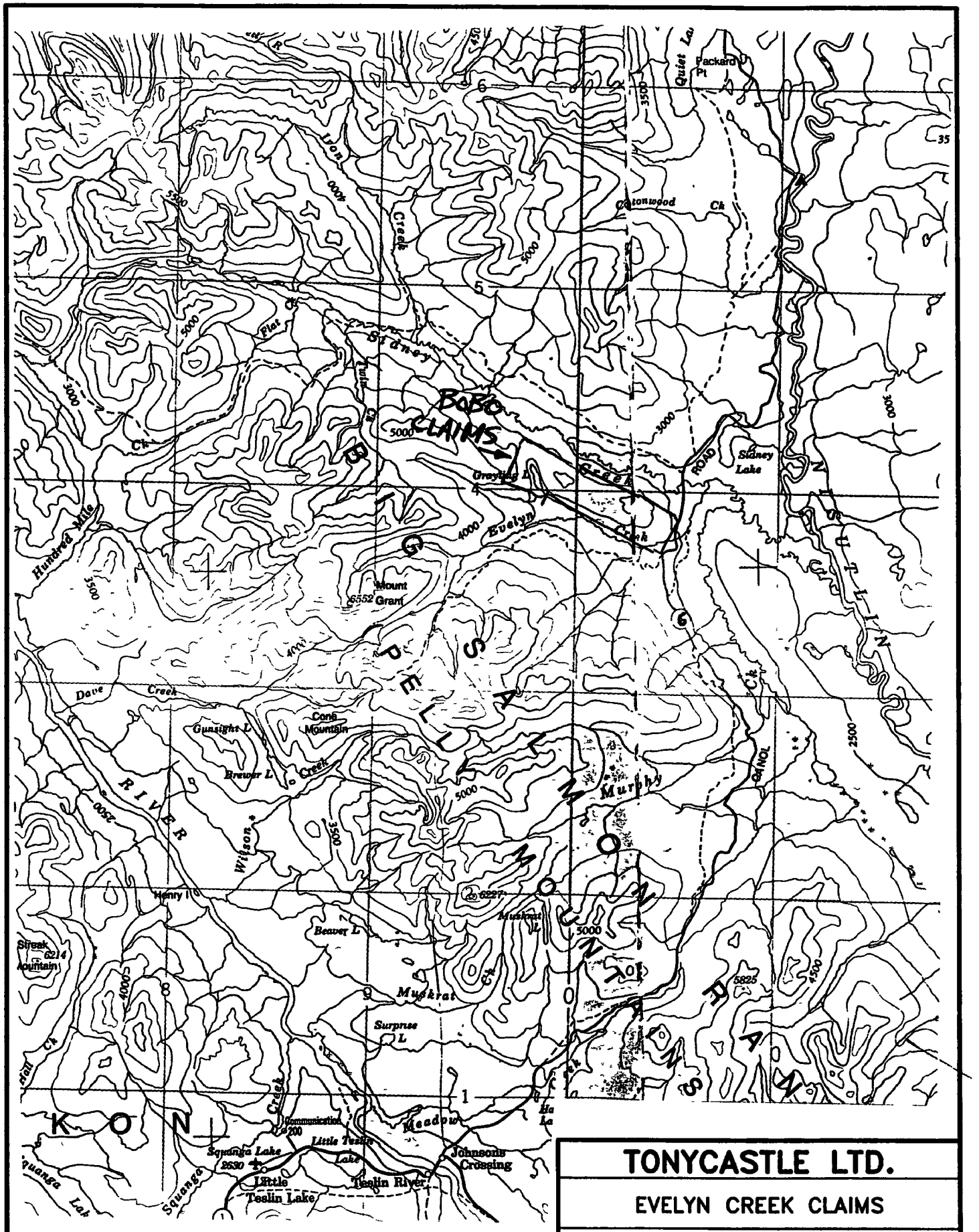
The property is located in mountainous terrain about 25 km directly north of Johnsons Crossing (mile 836 on the Alaska Highway) or 98 km east of Whitehorse, Yukon Territory, Figures 1 & 2. The claim group is centered at 60° 46' North Latitude and 133°15' West Longitude in N.T.S. on Mapsheet 105C/14.

Access for the examination program was by 4X4 vehicle along a 10 km dirt road which starts from km 44, immediately north of the Evelyn Creek bridge on the South Canol Road. The South Canol Road joins the Alaska Highway at Johnsons Crossing which is 110 km by road east of Whitehorse.

Since the access road has stretches of dirt, any sustained periods of rain make the same sections past the camp impassable event to 4-wheel drive vehicles. However, once the road has dried out over two or three days, even 2-wheel drive vehicles can be taken into the trenching sites.

The main trenching area is an elevation of about 3100 feet. The area is covered by open pineforest at lower elevations and dense sections of pine-spruce forest at higher levels. The comfortable camp is situated adjacent to Evelyn Creek at 2700 feet elevation.

Mr. Poulin is equipped with a D7 and D8 bulldozer as well as drills, aircompressor, all terrain vehicles and complete mechanical shop.




# TONYCASTLE LTD.

## EVELYN CREEK CLAIMS

## TOPOGRAPHIC MAP

| SCALE | DATE | N.T.S. | Figure: |
|---|---|---|---|
| 1:250,000 | Dec. '92 | 105C/14 | 2 |

Geology: New Global Resources Ltd.

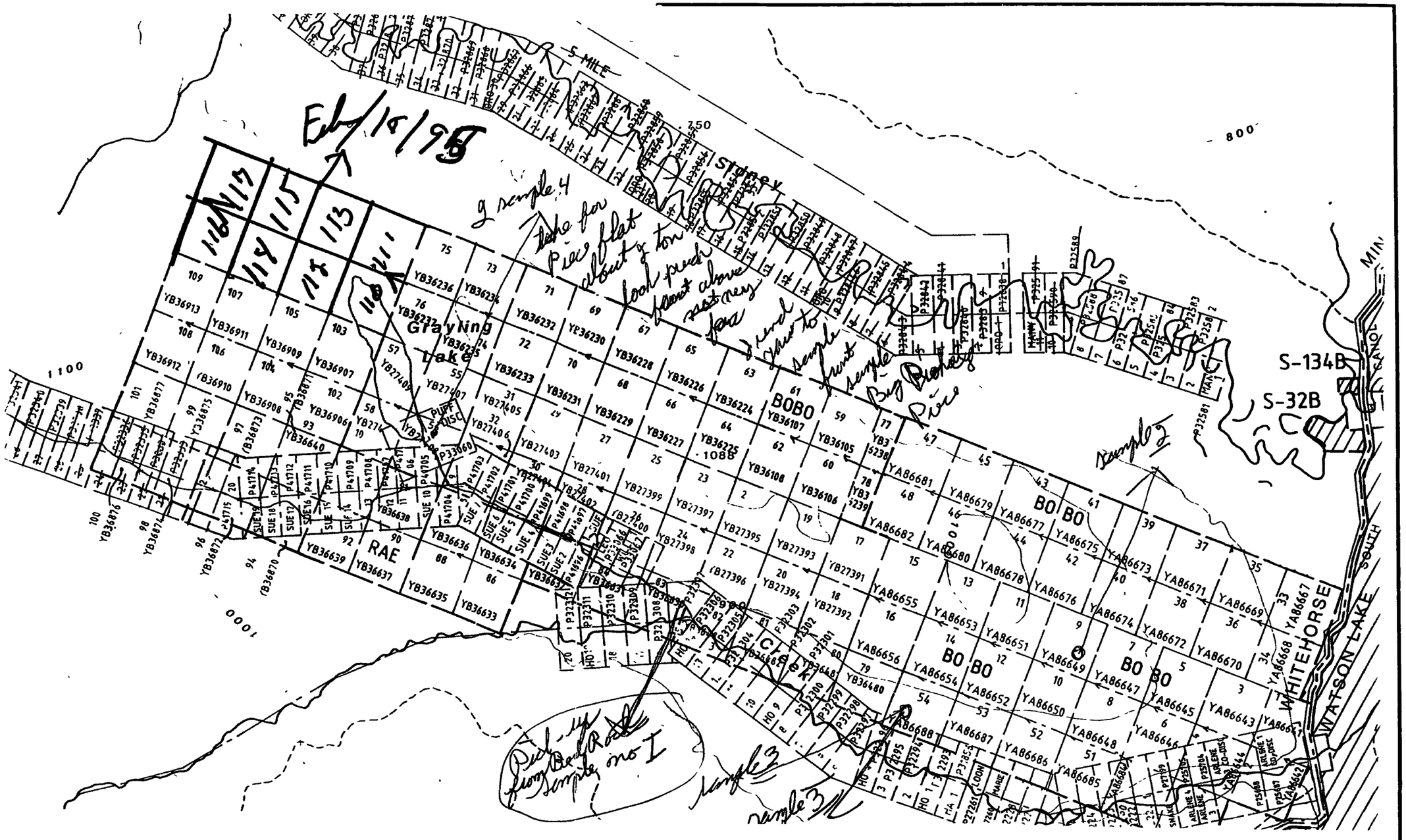
## CLAIM STATUS

The property consists of the contiguous Bobo Group of quartz mining claims situated in the Whitehorse Mining Division, Yukon Territory, Figure 3. The claims are listed in table 1 and cover and area of about 2000 hectares. Located mineral claims acquire title in the Yukon Territory via the Quartz Mining Act.

TABLE 1
LIST OF CLAIMS

| Claim Name | Record Number | Current Expiry Date | Location |
|---|---|---|---|
| Bobo 1-16 | YA86641-YA86656 | ? | Lower Evelyn Creek |
| Bobo 17-32 | YB27391-YB27406 | ? | |
| Bobo 33-48 | YA86667-YA86682 | ? | Northside near Sidney Creek |
| Bobo 49-54 | YA86683-YA86688 | ? | Southside Lower Evelyn Creek |
| Bobo 55-58 | YB27407-YB27410 | ? | South Grayling Lake area |
| Bobo 59-62 | YB36105-YB36108 | ? | |
| Bobo 63-70 | YB36224-YB36237 | ? | North Grayling Lake area |
| Bobo 77-78 | YB36238-YB36239 | ? | between 47-48 and 59-60 |
| Bobo 79-82 | YB36480-YB36683 | ? | Southside Mid Evelyn Creek |
| Bobo 83-93 | YB36830-YB36640 | ? | |
| Bobo 94-101 | YB36870-YB36877 | ? | |
| Bobo 102-109 | YB36906-YB36913 | ? | West of Grayling Lake |
| Bobo 110-117 | Location date February 18, 1995 | | North of Grayling Lake |

Total 117 Claims




## LEGEND

- 46 — claim boundary
- YA75655 — claim number / tag number
- creeks
- -5000- elevation contour; interval 500 ft
- X trench
- road

500m 0 500 1000m
scale in metres

# TONYCASTLE LTD.

## EVELYN CREEK CLAIMS

## CLAIM MAP

| SCALE | DATE | N.T.S. | Figure: |
|---|---|---|---|
| 1:31,680 | Dec. '92 | 105C/14 | 3 |

Geology: New Global Resources Ltd.

## HISTORY

The streams draining the Big Salmon Range into Teslin River were prospected for placer deposits by miners from the Dease Lake area previous to discovery of gold in the Klondike region in 1896. Workable placer gold deposits were located in the Livingstone Creek area immediately northwest of Teslin Map Sheet in the Big Salmon Range by 1899 and a surge of exploration to the surrounding area ensued. In the following two decades, the Livingstone placer camp produced more than 50,000 ounces of gold, but mining virtually ceased by 1920. By the early 1930's, the level of exploration activity again increased in the Big Salmon region with miners working on creeks in the Livingstone Creek camp and on Iron Creek-Cottonwood Creek between Big Salmon Range and Nisutlin River. However, the region again became dormant with the outbreak of World War II and next underwent exploration activity surges as a result of opening the Canol Pipeline Road to civilian travel and improved road access along the Alaska Highway. The advent of helicopter supported prospecting programs in the late 1950's resulted in additional exploration of the Teslin region (Macdonald, 1984).

The Evelyn Creek area has been staked or partially staked by several operators. The first recorded claims were located in 1955 by individuals investigation the manganese and chalcopyrite-bornite mineralization (Macdonald 1984).

Mount Grant Mines Ltd. acquired a manganese prospect west of the Evelyn Creek claims in 1967 (Antal, 1967). In 1968, a 14 miles (22.3 km) access road was constructed and a total of 2,901 feet (884 m) of percussion drilling was completed on this manganese showing.

Claims in the general area were staked by Cortex Silver Mines Ltd. in 1968 and Providence Mining in 1974 and apparently some small scale trenching for Au/Ag showings in narrow quartz veins was completed. The adjacent Eve claims at the headwaters of Evelyn Creek were located for Anooraq Resources Corporation in 1983.

Anooraq returned to extensively trench the rhodonite and excavate 120 tonnes of material for test purposes between 1991 to 1994. (Shearer 1991, 1992 & 1994.) Mr. Poulin has been actively exploring the area between Evelyn and Sidney Creeks for at least the last 20 years. He has constructed an extensive road system and excavated numerous bulldozer trenches over the years. At one point Mr. Poulin started placer production on lower Evelyn Creek.

# GEOLOGY

## a) Regional Geology

The Teslin 1:250,000 sheet was geologically mapped and compiled by R. Mulligan during 1950-1953 and is available as Map 1125A, Figure 4, and Memoir 326 (Mulligan, 1963). Previous geological investigations in the general area include R.G. McConnell (1898), J.C. Gwillim (1901) and E.J. Lees (1936). Mapping along the Alaska Highway and Canol Road was done by C.S. Lord (1944) and E.D. Kindle (1946).

The Evelyn Creek property is situated in the Omineca Tectonic Belt and is underlain by metamorphic rocks of the Big Salmon Complex. The regional stratigraphic sequence is shown in Table 2. Locally, the complex consists of quartz-biotite schist, argillaceous slate, quartzite and thick limestone units. Cretaceous granitic rocks intrude the complex on the east part of the area (Mulligan, 1963).

The Big Salmon Complex is regional metamorphosed and intensely deformed. Mulligan (1963) describes the age of the Complex as follows:

> "The Big Salmon Complex comprises various rocks of sedimentary and volcanic origin, whose metamorphosed condition in general distinguishes them from those of other units. In this respect the unit corresponds to the Yukon Group of areas to north and west. However, it locally underlies Mississippian limestone of unit 2 with apparent conformity, and is believed to be mainly equivalent to Mississippian and earlier Paleozoic formations in Wolf Lake and McDame areas to the southeast. The age of the metamorphism, as indicated by the potassium-argon ratio of muscovite from the schists, has been determined as 214 million years.
>
> Part of the complex may be the metamorphosed equivalent of units 2 and 3. On the other hand, a part near the western border of the outcrop area is of apparently relatively low metamorphic grade, and is not certainly distinguishable from nearby similar rocks of unit 9. The structure is generally highly complex and reliable stratigraphic subdivision is not feasible. In some places subdivision according to predominant lithological type is possible, however, and this has been attempted on the map."

The higher relative metamorphic grade of the rocks assigned to the Big Salmon Complex has been recognized by previous workers (Lord, 1944) and is a valid overall distinguishing feature although its stratigraphic significance is not clear throughout the map sheet. The characteristic metamorphism manifest itself both in mineralogy (dominated by biotite) and in structure.

Structurally, the regional metamorphism that characterizes unit 1 (and related parts of unit 3A) is expressed by the widespread development of cleavage, schistosity, and, more locally, gneissosity in the bedded rocks. In many places a pronounced pencil-structure results from the tendency of the rocks to break into long subcylindrical fragments marking the axial parts of small drag-folds. However, Mulligan (1963) found that no

major section was exposed well enough to permit reliable stratigraphic interpretation. In Big Salmon Range in the vicinity of the Evelyn creek claims, west of Nisutlin River, no fossiliferous marker horizon has been found. A thick crystalline limestone member, closely associated with greenstone on one hand and black argillaceous schist and quartzite on the other, extends along Sidney Creek and probably northwestward to the corner of the map-area.

Immediately northwest of the Evelyn Creek bridge, is a large outcrop of very altered chloritic volcanics with abundant hematite. Sampling in 1992, Figures 6 and 7, illustrate the scope of the bulldozer trenching completed by Mr. Poulin. The Hilltop Area stripping has been done largely subparallel to the strike of the metasediments. Orange weathering quartz-carbonate float is prominent to the northwest of the Hilltop trenches. The shear zone hosting this quartz-carbonate appears to be reflected in a linear swampy area. To the east a sample of "dolomite" was collected along the valley road.

## TABLE 2

**Stratigraphy of the Teslin Map-Area**

**(after Mulligan, 1963, notes by N. Caira)**

| | | |
|---|---|---|
| **Mississippian and earlier** | **1 Big Salmon Complex** | Quartz-mica and gneiss, quartzite, slate, greenstone, albite-epidote, amphibole gneiss, amphibolite, limestone, quartz plagioclase-amphibole, garnet gneiss |

**Map Unit**

(1c) Limestone unit - nearly all white or light grey moderate to strong recrystallized massive or banded in shades of white or bluish grey; buff coloured. Big Salmon Complex is higher grade metamorphism (biotite in schists or gneisses).

(1b) Dark grey or brown to black argillaceous quartz, slate, graphitic schist (micaceous) occurs in quartz-rich sections; well developed slaty cleavage.

(1d) Green, schistose chlorite, biotite, epidote-rich rocks and amphibolite made up a substantial part of this unit.

(1e) Albite-rich gneiss and albite-epidote amphibolite (volcanic origin), greenstones vary from unaltered porphyritic, amygdaloidal and fragmental structures indicate volcanic origin to banded quartz rocks of sedimentary origin.

Augite-pseudomorphic by hornblende, actinolite, chlorite common as phenocrysts in meta lavas and flow breccias.

Feldspars-sodic plagioclase and zoisite-epidote saussuritization;
- high deformed and altered rocks -- albite-epidote-amphibole schists and amphibolite;
- banded rocks in various shades of green containing granular quartz and epidote, chlorite, biotite + 2° green amphibole (some appear to be tuffaceous quartzites or metavolcanics derived from volcanic terrain.

Biotite spangles on surface are conspicuous features of greenstone.

Albite gneiss speckled greenish grey foliated rock eliptical grains of albite (2 mm) in groundmass of chlorite, biotite, epidote. Porphyroblastic nature albite augen, quartz prominent and sericitic (white mica) quartz mica schist.

Interbedded with dark green amphibole -- green hornblende, actinolite epidote, chlorite, albite.

(1f) Distinctive gneisses - border granite - strong lineation foliation smeared amphibole (feldspar fresh) - plagiocase quartz -25%, biotite, epidote, garnet (sphene-apatite), metaclastic - suturing and preferred quartz grain orientation.

Limestone locally grades into volcanic rocks along strike.
Limestone occurs in lenses elsewhere in thick volcanic sections.
Limestone overlies and underlies greenstone.
Skarn - coarsely crystalline epidote and garnet-pyrite.

| | | |
|---|---|---|
| **Paleozoic?** | A | Quartz-hornblende and quartz-feldspar-hornblende gneiss and amphibolite, diorite(?) in part gradational with, in part intrusive into 1 |

| ERA | PERIOD | UNIT | |
|---|---|---|---|
| Mesozoic and Cenozoic | Cretaceous (and Tertiary) | 14 | Volcanic andesite, dacite ppry feldspar-qtz porphyry dykes (contemporaneous or younger) |
| Mesozoic | Cretaceous | 13 | Granite, granodiorite, diorite, gabbro, hornblendite, pyroxenite, syenite, monzonite |
| Jurassic or Cretaceous | Not in contact probably intrusive | | |
| | Intrusive contact | 12 | Diorite |
| | Intrusive contact | 11 | Peridotite, pyroxenite, serpentine |
| Upper and/or Jurassic | | 10 | Augite, porphyry, augite feldspar porphyry; lava, breccia agglomerate, argillite, sandstone, greywacke, conglomerate, chert |
| | Probably partly contemporaneous | | |
| | | 9 | Argillite, siltstone, sandstone, greywacke, conglomerate, limestone, minor lava |
| Upper Triassic | Not in contact | 8 | **Lewess River Group;** limestone, argillite, sandstone |
| Permian and/or Triassic | Probable conformity with 8, possible disconformity with 9 | 7 | Volcanic rocks, chert, minor argillite, quartzite, limestone |
| Permian possibly later | Not in contact with 7-10, intrusive contact with 11, 12 | 6 | Conglomerate, greywacke, limestone on 1-3; relationship to other rocks unknown |
| | Probably unconformable | | |
| Paleozoic | Permian and Pennsylvanian | Fault(?) contacts, possible disconformity with 7 | |
| | | 7 | **Cache Creek Group;** (in part) limestone |
| | | Partly contemporaneous | |
| | | 4 | **Cach Creek Group;** (in part) argillaceous and siltstone, greywacke, chert, minor limestone and conglomerate |
| | Not in contact, probable unconformity | | |
| Mississippian | **3 Englishmans Group** (in part) | | Argillite, quartzite, phyllite, chert, arkose, greywacke, grit, conglomerate, limestone, minor greenstone |
| | Probably local disconformity, partly(?) contain poroneous | | |
| | 2 Englishmans Group (in part) | | Limestone |

CENOZ

15 — *Drift and alluvium*

MESOZOIC

**CRETACEOUS**

**COAST AND CASSIAR INTRUSIONS**

13 — *Granite, granodiorite; diorite; 13a, gabbro, diorite, hornblendite, pyroxenite; granodiorite, 13b, syenite, monzonite, gabbro, granodiorite, diorite*

**JURASSIC OR CRETACEOUS**

12 — *Diorite*

11 — *Peridotite, pyroxenite, serpentine*

**TRIASSIC AND/OR JURASSIC**

**UPPER TRIASSIC AND/OR JURASSIC**

9 — *Argillaceous sandstone and siltstone, greywacke, 9a, conglomerate, 9b, black limestone, 9c, associated volcanic rocks*

**TRIASSIC**

**UPPER TRIASSIC**

**LEWES RIVER GROUP**

8 — *Argillite and sandstone, 8a, limestone*

**PERMIAN OR (?) LATER**

6 — *Conglomerate, greywacke, limestone*

**PENNSYLVANIAN (?) AND PERMIAN**

**CACHE CREEK GROUP (4,5)**

4 5 — 5 *Limestone, minor chert, argillite, slate, greenstone*
4. *Argillaceous and quartzitic siltstone, sandstone, greywacke, chert, minor limestone, 4a, chiefly banded chert, 4b, limestone, 4c, conglomeratic greywacke, 4d, banded argillite and argillaceous quartzite*

**MISSISSIPPIAN**

**ENGLISHMANS GROUP (2,3)**

2 3 — 3. *Argillaceous quartzite, slate; phyllite, chert; 3a, arkosic grit, 3b, conglomerate, 3c, limestone, 3d, greenstone*
3A, *Quartzose and argillaceous schist and phyllite, minor limestone, mainly equivalent to 2 and 3, but in part to 1, and in part of uncertain age*
2. *Limestone*

PALÆOZOIC

**CRETACEOUS AND (?) TERTIARY**

14 — *Andesite and dacite porphyry and agglomerate, feldspar-quartz porphyry and felsite dykes*

**TRIASSIC AND/OR JURASSIC (?)**

10 — *Undifferentiated volcanic and sedimentary rocks; 10a, mainly augite, hornblende, and feldspar porphyry flows, agglomerate, breccia, tuff; 10b, greenstone, 10c, argillaceous siltstone, sandstone, greywacke; banded chert*

**PERMIAN AND/OR TRIASSIC**

7 — *Volcanic and altered volcanic (?) rocks, chert, minor argillite and quartzite, 7a, intermediate lava and pyroclastic rocks, 7b, basic lava, 7c, limestone*

**MISSISSIPPIAN OR EARLIER (MAINLY)**

**BIG SALMON COMPLEX**

1 — *Schist, gneiss, quartzite, greenstone, limestone, may be in part equivalent to younger units, 1a, chiefly quartzite and quartz-mica schist and gneiss, 1b, chiefly dark argillaceous slate, schist, quartzite; 1c, limestone, 1d, chiefly green, chloritic and epidotic rocks, biotite schist, amphibolite, 1e, albite gneiss, chlorite-epidote amphibolite, 1f, quartz-biotite-amphibole-epidote-plagioclase-garnet gneiss*

---

A — *Quartz-hornblende and quartz-feldspar-hornblende gneiss and amphibolite; diorite (?), at least in part derived from 1*

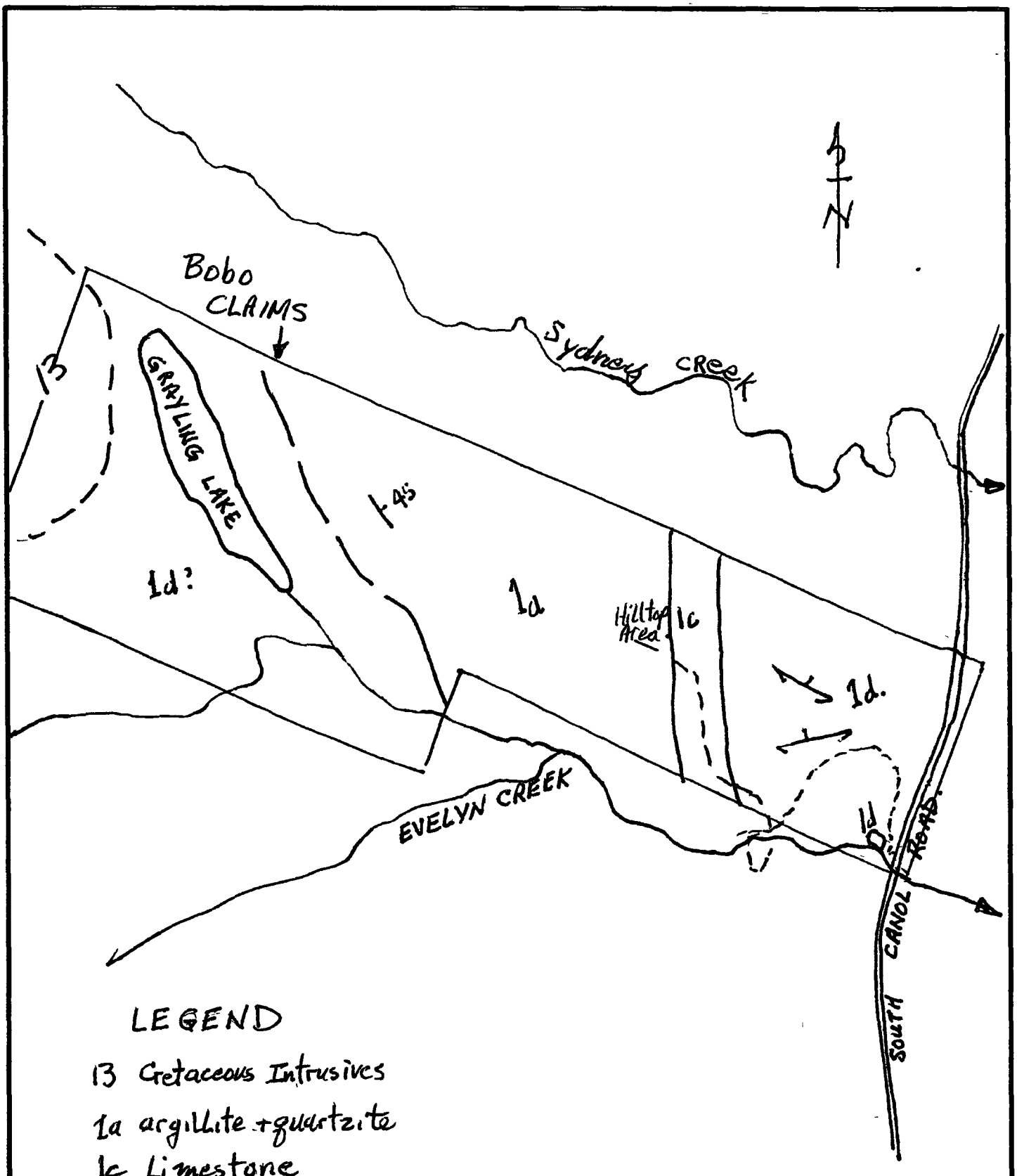

# TONYCASTLE LTD.

## EVELYN CREEK CLAIMS

## REGIONAL GEOLOGY

| SCALE | DATE | N.T.S. | Figure: |
|---|---|---|---|
| 1"=4 miles | Dec. '92 | 105C/14 | 4 |

Geology: New Global Resources Ltd.




# TONYCASTLE LTD.

## EVELYN CREEK CLAIMS

## PROPERTY GEOLOGY

| SCALE | DATE | N.T.S. | Figure: |
|---|---|---|---|
| 1:50,000 | Dec. '92 | 105C/14 | 5 |

Geology: New Global Resources Ltd.

**b) Local Geology and Sample Results**

From discussions with B. Poulin, apparently no detail geological mapping has been completed on the Evelyn creek Property. Local geological mapping at the scale of 1:5,000 was completed on the adjacent Eve claims at the headwaters of Evelyn Creek in 1991 (Shearer 1991B) and the following comments are largely derived from that work and observations on the Bobo Claims in 1992.

The property is underlain by Paleozoic metasediments-metavolcanics of the Big Salmon Metamorphic Complex and Cretaceous meta-intrusive rock. Quartz veinlets (multidirectional stockwork) occur throughout the Hilltop trenched area and surrounding rocks. Veins may or may not contain disseminated pyrite. Unidirectional quartz veins occur throughout the Paleozoic quartz-muscovite schists and miscellaneous quartzites.

Pyritic, siliceous meta-tuff(?) horizons form extensive red-orange soil gossans throughout the adjacent claims and are locally loci for fault-shear zones. These horizons are weakly anomalous in gold (20-50ppm), weakly anomalous in barium (120-760ppm), moderately anomalous in arsenic (60-375ppm)(Shearer, 1991). Similar tuff horizons can be expected on the claims.

Gold-silver-copper mineralization at the northwest corner of the property (Eve 78 claim) associated with chlorite ± quartz ± magnetite veins in a meta-intrusive returned 125 ppb Au, 26.8 ppm Ag and 2970 ppm Cu respectively. The veins contained disseminated pyrite, chalcopyrite, magnetite hosted in zoned chalcedonic quartz.

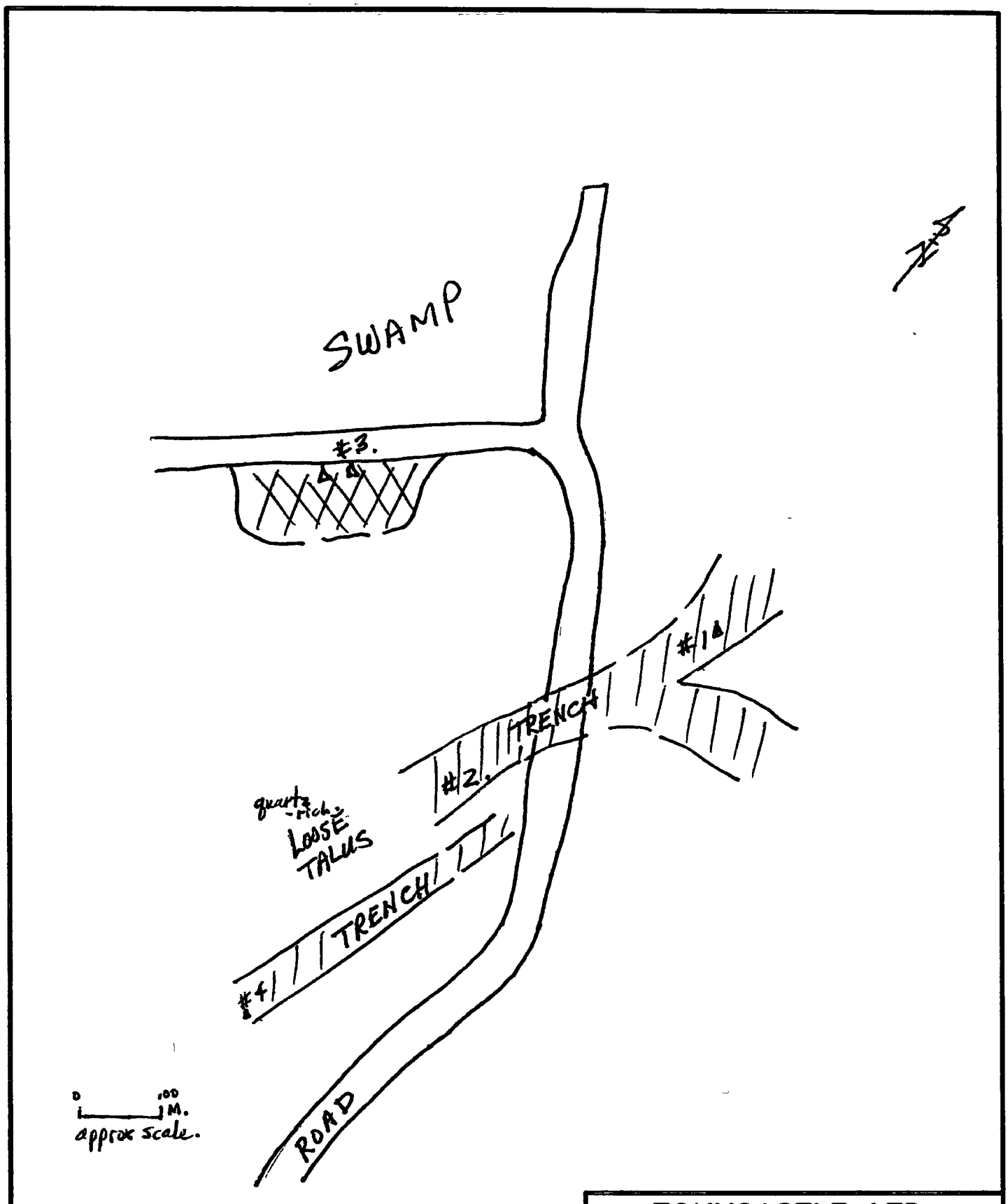
Rock units observed in detail on the adjacent claims and have also been seen on the claims are as follows:

| | | |
|---|---|---|
| | 2 | Hornblende granodiorite (metamorphosed). |
| Youngest | (1a) | Quartzite ± quartz mica schist (quartz muscovite-biotite schist) ± gneiss, limestone. |
| | (1b) | Dark grey brown to black argillaceous quartzite massive to finely bedded ± massive grey quartzite slaty and graphitic shcist (micaceous) with quartzite beds (slaty cleavage). |
| | (1c) | Limestone unit - white to moderate grey or light buff to white, moderate to strong recrystallization and massive white to well bedded. |
| | (1d) | Green, chloritic (± biotitic) (± epidote) - rich rocks ± amphibolite makes up substantial part of unit. |
| Oldest | (1e) | Albite-rich gneiss ± albite-epidote amphibolite (metavolcanic origin). |

The limestone has 1 to 3 cm quartzite interbeds associated with a strong bedding cleavage. The limestone unit (1c) underlies conformably Unit 1a quartzite.

The dominant style of deformation and the relationship between major map units are controlled by tightly folded anticline trending north-northwest in the Mount Grant Area, west of the claims.

Samples collected by B. Poulin in 1994 are in the process of being submitted for assay. Specimen descriptions are contained in Appendix II. From a visual inspection these rocks are not expected to assay significant metal values.




SKETCH from notes by L. Williams.

| TONYCASTLE LTD. | | | |
|---|---|---|---|
| EVELYN CREEK CLAIMS | | | |
| HILLTOP TRENCHES | | | |
| SCALE AS SHOWN | DATE Dec. '92 | N.T.S. 105C/14 | Figure: 6 |
| Geology: New Global Resources Ltd. | | | |

## CONCLUSIONS AND RECOMMENDATIONS

Tonycastle Limited controls a large block of quartz mineral claims in the lower Evelyn Creek area of southern Yukon. Access in normally by a good 10.3 km dirt road that roughly parallels the Evelyn Creek Valley starting at km 44 on the South Canol Road (Highway 6).

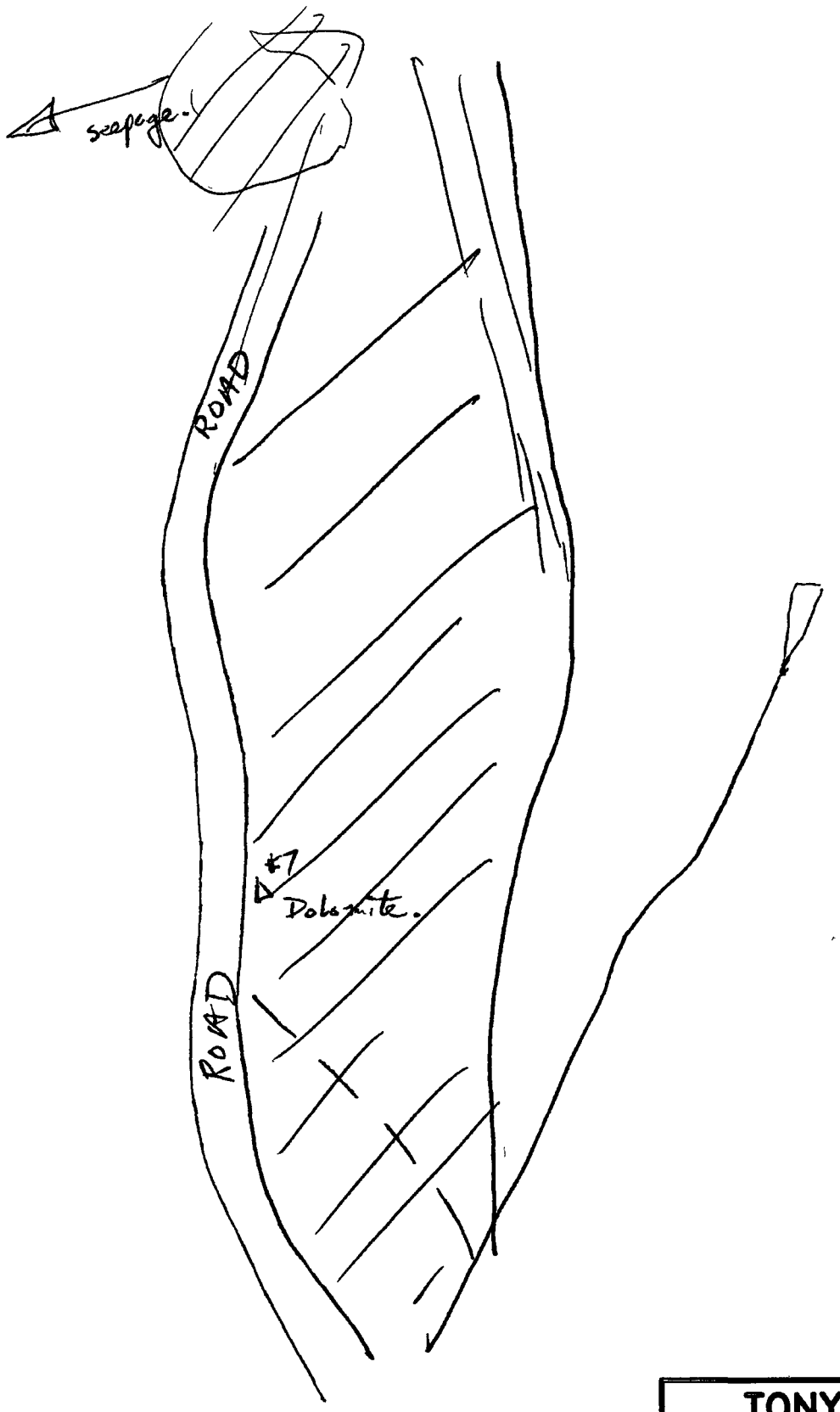
Previous work in the immediate area consisted primarily of percussion drilling the "manganese" (rhodonite) zone in 1968 and small-scale mining in 1988 and 1989. Initially attention was drawn to quartz veins containing gold/silver values, however, rhodonite became the main focus by 1986. Trenching and small scale bulk sampling was completed in 1991 to 1994.

The property is underlain by very chloritic altered volcanics, Limestone, argillite and micaceous quartzite of the Big Salmon Metamorphic Complex. Previous regional work has recognized potential for precious metal veins, structurally controlled quartz-carbonate replacement zones and polymetallic massive sulfide deposits.

With the exception of road building and bulldozer trenching (for which there was no professional guidance) the property has not been explored to any great extent. The bulldozer trenching, to date, has not uncovered any mineral showings that have been brought to my attention. Bulldozer trenching should not be continued until a geological mapping program is completed by a qualified professional in order to define the exploration parameters. A stage exploration program is outlined in the next section.

Respectfully submitted,

J.T. Shearer, M.Sc., P.Geo.




Sketch from L. Williams notes

100 m approx Scale

# TONYCASTLE LTD.

## EVELYN CREEK CLAIMS

## VALLEY ROAD TRAVERSE

| SCALE AS SHOWN | DATE Dec. '92 | N.T.S. 105C/14 | Figure: 7 |
|---|---|---|---|

Geology: New Global Resources Ltd.

## COST ESTIMATE FOR FUTURE WORK

Two phase program of exploration is recommended to evaluate the potential of the Evelyn Creek property as follows:

Phase 1

| | |
|---|---|
| Geological mapping and sampling of existing trenches | 6,000.00 |
| Basemap preparation | 2,000.00 |
| Stream sediment sampling | 1,500.00 |
| Orientation soil sampling | 1,000.00 |
| Baseline survey and grid | 2,000.00 |
| Report preparation | 1,500.00 |
| (figures include transportation and accommodation) | |
| Subtotal | $14,000.00 |

Phase 2

| | |
|---|---|
| Follow-up geological mapping | 4,000.00 |
| Soil grid | 10,000.00 |
| Bulldozer trenching | 20,000.00 |
| Sampling of trenches | 2,000.00 |
| Subtotal | $36,000.00 |
| Total of Phase 1 & 2 | $50,000.00 |

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# APPENDIX I

## STATEMENT OF QUALIFICATIONS

## J.T. SHEARER, M.Sc., P.Geo.

### EVELYN CREEK PROPERTY

**April 10, 1995**

## Appendix I

# STATEMENT OF QUALIFICATIONS

I, JOHAN T. SHEARER, of 1817 Greenmount Avenue, in the City of Port Coquitlam, in the Province of British Columbia, do hereby certify:

1. I am a graduate of the University of British Columbia (B.Sc., 1973) in Honours Geology, and the University of London, Imperial College (M.Sc., 1977).

2. I have over 20 years experience in exploration for base and precious metals and industrial mineral commodities in the Cordillera of Western North America with such companies as McIntyre Mines Ltd., J.C. Stephen Explorations Ltd., Carolin Mines Ltd. and TRM Engineering Ltd.

3. I am a fellow in good standing of the Geological Association of Canada (Fellow No. F439) and I am a member in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (Member No. 19,279).

4. I am an independent consulting geologist employed since December 1986 by New Global Resources Ltd. at #5-2330 Tyner St., Port Coquitlam, B.C.

5. I am the author of a report entitled "Geological Summary Report on the Evelyn Creek Property (Bobo Claims), Yukon, Dated April 10, 1995.

6 I have visited the property on September 9, 1992 and in August 1994 and carried out geological mapping and sample collection. I am familiar with the regional geology and geology of nearby properties, having worked on the adjacent Eve Claims in 1991, 1992 and 1994. I have become familiar with previous work conducted on the Evelyn Creek Property by examining in detail the available report and have discussed previous work with persons knowledgeable of the area.

7. I do not own or expect to receive any interest (direct, indirect or contingent) in the property described herein and nor in the securities of Tonycastle Ltd. in respect to services rendered in preparation of this report.

8. I consent to authorize the use of the attached report and my name in the company's Statement of Material Facts or other public document.

Dated at Port Coquitlam, British Columbia, this 10th day of April 1995.

J.T. Shearer, M.Sc., F.G.A.C., P.Geo.

# APPENDIX II

## SAMPLE DESCRIPTIONS

## EVELYN CREEK PROPERTY

**April 10, 1995**

## APPENDIX II

# SAMPLE DESCRIPTIONS
## EVELYN CREEK AREA

1) Hilltop #2 White Marble mixture of sugary and fine grained quartz and calcite, some silicification, brown weathering.

2) #5 Sept. 15/92 VA RD, #5, North of Limestone, brown gravelly soil.

3) #7 Valley Road, Dolomite, rusty brown-orange "chips" in dark brown soil.

4) #1 Sept 15/92, Valley Road, North of Limestone, reddish brown pebbly soil.

5) #4a soil-Sept. 15, Valley Road, North of Limestone,

6) #4b quartzite-angular chips of quartzite

7) #6a rock-Sept. 15 Valley Road, Limestone, Chip Sample.

8) #6b soil - 12 feet

9) #3 Sept.15, 1992 Valley Road, North of Limestone

10) Hilltop #1 Cut First Sample, White marble, slightly brownish, rusty weathering, Maybe Dolomitic, slight banded appearance.

11) Hilltop #3 Cut Light brown weathering, white marble.

12) Hilltop #4 Cut Very rusty weathering quartz vein (?)

13) #2 Valley Road, North of Limestone, very sandy soil. Light brown.

1994 Samples
Collected by B.Poulin

1) Location from Map Pyritic dark grey schist, blebs and finely disseminated, 5-10mm wide white quartz stringers roughly parallel to schistosity. Loose specimen has blebs of chalcopyrite, on Bobo 83 Claim along Evelyn Creek.

2) Location on Map Small chip, black cherty appearance, very fine grained, very siliceous, no apparent sulfides, on Bobo #9 Claim.

| | |
|---|---|
| 3) Larger sample<br>2 bags 1sm, 1 lg | "from below the Hilltop claim..... above 800 hundred feet up the creek, about 100 feet from Evelyn creek. Buff brown weathering, darker brownish grey, schistose, but altered by chalcedony-like siliceous layers, some coarser micaceous zones. Flaggy rock cleavage. Larger sample has considerable soft friable material with rock. |
| 4) | Light brown weathering, dark green schist cut by irregular stringers or layers of quartz-feldspar. Very chloritic, Metavolcanic rock. Near Grayling Lake. |

Samples 1-4, taken in 1994 are in the process of being assayed.

# APPENDIX III

## LIST OF PERSONNEL AND DATES WORKED

### 1992

## EVELYN CREEK PROPERTY

**April 10, 1995**

## APPENDIX III

# LIST OF PERSONNEL AND DATES WORKED

| Name | Position | Address Worked | Dates |
|---|---|---|---|
| J.T. Shearer, M.Sc., P.Geo | Geologist | 1817 Greenmount Ave<br>Port Coquitlam, BC<br>V3B 2S7 | Fieldwork,<br>Sept. 9, 1992<br>& Aug. 21, 1994<br>Report prepartion |
| Lorne Williams | Prospector/<br>Equipment<br>Operator | P.O. Box 2168<br>Hope, B.C.<br>V0X 1L0 | Fieldwork<br>Sept. 15-20, 1992 |

# APPENDIX IV

## ANALYTICAL PROCEDURES
## and
## ASSAY CERTIFICATES

## EVELYN CREEK PROPETY

**Apirl 10, 1995**

# Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221


To: NEW GLOBAL RESOURCES

548 BEATTY ST.
VANCOUVER, BC
V6B 2L3

A9226217

Comments: ATTN: JOE SHEARER

## CERTIFICATE A9226217

NEW GLOBAL RESOURCES

Project:
P O #.

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-DEC-92.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION |
|---|---|---|
| 205 | 4 | Geochem ring to approx 150 mesh |
| 274 | 4 | 0-15 lb crush and split |
| 285 | 4 | ICP - HF digestion charge |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION | METHOD | DETECTION LIMIT | UPPER LIMIT |
|---|---|---|---|---|---|
| 100 | 4 | Au ppb: Fuse 10 g sample | FA-AAS | 5 | 10000 |
| 578 | 4 | Ag ppm: 24 element, rock & core | AAS | 0.5 | 200 |
| 573 | 4 | Al %: 24 element, rock & core | ICP-AES | 0.01 | 25.0 |
| 565 | 4 | Ba ppm: 24 element, rock & core | ICP-AES | 10 | 10000 |
| 575 | 4 | Be ppm: 24 element, rock & core | ICP-AES | 0.5 | 10000 |
| 561 | 4 | Bi ppm: 24 element, rock & core | ICP-AES | 2 | 10000 |
| 576 | 4 | Ca %: 24 element, rock & core | ICP-AES | 0.01 | 25.0 |
| 562 | 4 | Cd ppm: 24 element, rock & core | ICP-AES | 0.5 | 10000 |
| 563 | 4 | Co ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 569 | 4 | Cr ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 577 | 4 | Cu ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 566 | 4 | Fe %: 24 element, rock & core | ICP-AES | 0.01 | 25.0 |
| 584 | 4 | K %: 24 element, rock & core | ICP-AES | 0.01 | 20.0 |
| 570 | 4 | Mg %: 24 element, rock & core | ICP-AES | 0.01 | 20.0 |
| 568 | 4 | Mn ppm: 24 element, rock & core | ICP-AES | 5 | 10000 |
| 554 | 4 | Mo ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 583 | 4 | Na %: 24 element, rock & core | ICP-AES | 0.01 | 5.00 |
| 564 | 4 | Ni ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 559 | 4 | P ppm: 24 element, rock & core | ICP-AES | 10 | 10000 |
| 560 | 4 | Pb ppm: 24 element, rock & core | AAS | 2 | 10000 |
| 582 | 4 | Sr ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 579 | 4 | Ti %: 24 element, rock & core | ICP-AES | 0.01 | 10.00 |
| 572 | 4 | V ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 556 | 4 | W ppm: 24 element, rock & core | ICP-AES | 10 | 10000 |
| 558 | 4 | Zn ppm: 24 element, rock & core | ICP-AES | 2 | 10000 |

# Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

To: NEW GLOBAL RESOURCES

548 BEATTY ST.
VANCOUVER, BC
V6B 2L3

Project :
Comments: ATTN: JOE SHEARER

Page Number :1-A
Total Pages :1
Certificate Date: 17-DEC-92
Invoice No. .I9226217
P.O. Number
Account .EIJ

## CERTIFICATE OF ANALYSIS A9226217

| SAMPLE | PREP CODE | | Au ppb FA+AA | Ag ppm AAS | Al % (ICP) | Ba ppm (ICP) | Be ppm (ICP) | Bi ppm (ICP) | Ca % (ICP) | Cd ppm (ICP) | Co ppm (ICP) | Cr ppm (ICP) | Cu ppm (ICP) | Fe % (ICP) | K % (ICP) | Mg % (ICP) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HILLTOP #1 | 205 | 274 | < 5 | < 0.2 | 0.69 | 40 | < 0.5 | < 2 | >25.0 | 0.5 | 3 | 71 | 9 | 0.36 | 0.14 | 0.24 |
| HILLTOP #2 | 205 | 274 | < 5 | < 0.2 | 0.07 | 20 | < 0.5 | < 2 | >25.0 | 0.5 | 3 | 8 | < 1 | 0.10 | 0.02 | 0.85 |
| HILLTOP #3 | 205 | 274 | < 5 | < 0.2 | 0.23 | 30 | < 0.5 | < 2 | >25.0 | 1.0 | 3 | 6 | < 1 | 0.20 | 0.08 | 0.39 |
| HILLTOP #4 | 205 | 274 | < 5 | < 0.2 | 1.46 | 1730 | < 0.5 | < 2 | 0.22 | < 0.5 | 6 | 232 | 31 | 0.90 | 0.24 | 0.10 |

CERTIFICATION: Thai D Ma

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Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
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V6B 2L3

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Total Pages :1
Certificate Date. 17-DEC-92
Invoice No. :I9226217
P.O Number :
Account EIJ

## CERTIFICATE OF ANALYSIS A9226217

| SAMPLE | PREP CODE | | Mn ppm (ICP) | Mo ppm (ICP) | Na % (ICP) | Ni ppm (ICP) | P ppm (ICP) | Pb ppm AAS | Sr ppm (ICP) | Ti % (ICP) | V ppm (ICP) | W ppm (ICP) | Zn ppm (ICP) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HILLTOP #1 | 205 | 274 | 130 | < 1 | 0.19 | 7 | 200 | 4 | 224 | 0.03 | 17 | < 10 | 14 | | | |
| HILLTOP #2 | 205 | 274 | 80 | < 1 | 0.02 | 2 | 120 | 4 | 281 | < 0.01 | 12 | < 10 | 8 | | | |
| HILLTOP #3 | 205 | 274 | 150 | < 1 | 0.09 | 1 | 260 | 6 | 340 | < 0.01 | 13 | < 10 | 8 | | | |
| HILLTOP #4 | 205 | 274 | 525 | < 1 | 0.65 | 20 | 180 | 2 | 70 | 0.04 | 20 | < 10 | 18 | | | |

CERTIFICATION: John D'Mar

# Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221


To: NEW GLOBAL RESOURCES

548 BEATTY ST.
VANCOUVER, BC
V6B 2L3

A9226218

Comments: ATTN: JOE SHEARER

## CERTIFICATE A9226218

NEW GLOBAL RESOURCES

Project:
P.O #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 17-DEC-92.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION |
|---|---|---|
| 201 | 7 | Dry, sieve to -80 mesh |
| 285 | 7 | ICP - HF digestion charge |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION | METHOD | DETECTION LIMIT | UPPER LIMIT |
|---|---|---|---|---|---|
| 100 | 7 | Au ppb: Fuse 10 g sample | FA-AAS | 5 | 10000 |
| 578 | 7 | Ag ppm: 24 element, rock & core | AAS | 0.5 | 200 |
| 573 | 7 | Al %: 24 element, rock & core | ICP-AES | 0.01 | 25.0 |
| 565 | 7 | Ba ppm: 24 element, rock & core | ICP-AES | 10 | 10000 |
| 575 | 7 | Be ppm: 24 element, rock & core | ICP-AES | 0.5 | 10000 |
| 561 | 7 | Bi ppm: 24 element, rock & core | ICP-AES | 2 | 10000 |
| 576 | 7 | Ca %: 24 element, rock & core | ICP-AES | 0.01 | 25.0 |
| 562 | 7 | Cd ppm: 24 element, rock & core | ICP-AES | 0.5 | 10000 |
| 563 | 7 | Co ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 569 | 7 | Cr ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 577 | 7 | Cu ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 566 | 7 | Fe %: 24 element, rock & core | ICP-AES | 0.01 | 25.0 |
| 584 | 7 | K %: 24 element, rock & core | ICP-AES | 0.01 | 20.0 |
| 570 | 7 | Mg %: 24 element, rock & core | ICP-AES | 0.01 | 20.0 |
| 568 | 7 | Mn ppm: 24 element, rock & core | ICP-AES | 5 | 10000 |
| 554 | 7 | Mo ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 583 | 7 | Na %: 24 element, rock & core | ICP-AES | 0.01 | 5.00 |
| 564 | 7 | Ni ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 559 | 7 | P ppm: 24 element, rock & core | ICP-AES | 10 | 10000 |
| 560 | 7 | Pb ppm: 24 element, rock & core | AAS | 2 | 10000 |
| 582 | 7 | Sr ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 579 | 7 | Ti %: 24 element, rock & core | ICP-AES | 0.01 | 10.00 |
| 572 | 7 | V ppm: 24 element, rock & core | ICP-AES | 1 | 10000 |
| 556 | 7 | W ppm: 24 element, rock & core | ICP-AES | 10 | 10000 |
| 558 | 7 | Zn ppm: 24 element, rock & core | ICP-AES | 2 | 10000 |

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548 BEATTY ST.
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V6B 2L3

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Page Number :1-A
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Certificate Date: 17-DEC-92
Invoice No. I9226218
P.O Number
Account EIJ

## CERTIFICATE OF ANALYSIS A9226218

| SAMPLE | PREP CODE | | Au ppb FA+AA | Ag ppm AAS | Al % (ICP) | Ba ppm (ICP) | Be ppm (ICP) | Bi ppm (ICP) | Ca % (ICP) | Cd ppm (ICP) | Co ppm (ICP) | Cr ppm (ICP) | Cu ppm (ICP) | Fe % (ICP) | K % (ICP) | Mg % (ICP) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #1 | 201 | 285 | < 5 | < 0.2 | 6.44 | 1700 | 0.5 | 8 | 1.73 | < 0.5 | 16 | 52 | 50 | 4.20 | 1.54 | 1.20 |
| #2 | 201 | 285 | < 5 | < 0.2 | 7.97 | 2340 | 0.5 | 12 | 3.22 | < 0.5 | 17 | 29 | 70 | 3.43 | 2.82 | 2.71 |
| #3 | 201 | 285 | < 5 | < 0.2 | 8.17 | 1540 | 0.5 | 8 | 1.28 | < 0.5 | 13 | 55 | 85 | 3.40 | 2.14 | 2.39 |
| #4 | 201 | 285 | < 5 | < 0.2 | 8.00 | 1860 | < 0.5 | 12 | 1.68 | 0.5 | 16 | 50 | 74 | 3.77 | 2.35 | 3.15 |
| #5 | 201 | 285 | < 5 | < 0.2 | 6.78 | 1470 | 0.5 | 10 | 1.56 | < 0.5 | 14 | 57 | 69 | 3.54 | 1.57 | 1.77 |
| #6 | 201 | 285 | < 5 | < 0.2 | 5.73 | 1360 | < 0.5 | 4 | 4.64 | 0.5 | 17 | 68 | 69 | 4.07 | 1.73 | 1.02 |
| #7 | 201 | 285 | < 5 | < 0.2 | 6.35 | 760 | < 0.5 | 2 | 1.40 | < 0.5 | 19 | 199 | 38 | 3.51 | 1.29 | 1.62 |

CERTIFICATION: Thai D Ma

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Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

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Invoice No. 19226218
P.O. Number
Account EIJ

## CERTIFICATE OF ANALYSIS A9226218

| SAMPLE | PREP CODE | | Mn ppm (ICP) | Mo ppm (ICP) | Na % (ICP) | Ni ppm (ICP) | P ppm (ICP) | Pb ppm AAS | Sr ppm (ICP) | Ti % (ICP) | V ppm (ICP) | W ppm (ICP) | Zn ppm (ICP) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| #1 | 201 | 285 | 1610 | 1 | 1.65 | 32 | 970 | 18 | 221 | 0.36 | 116 | < 10 | 86 | | | |
| #2 | 201 | 285 | 1140 | 2 | 0.89 | 19 | 1310 | 12 | 410 | 0.38 | 112 | < 10 | 96 | | | |
| #3 | 201 | 285 | 530 | < 1 | 0.58 | 29 | 930 | 2 | 98 | 0.40 | 115 | < 10 | 104 | | | |
| #4 | 201 | 285 | 460 | 7 | 0.49 | 24 | 990 | 60 | 96 | 0.39 | 173 | < 10 | 136 | | | |
| #5 | 201 | 285 | 715 | < 1 | 1.18 | 36 | 870 | 4 | 158 | 0.39 | 104 | < 10 | 88 | | | |
| #6 | 201 | 285 | 1690 | < 1 | 0.32 | 29 | 1840 | 30 | 107 | 0.30 | 113 | < 10 | 118 | | | |
| #7 | 201 | 285 | 655 | 1 | 1.49 | 132 | 510 | < 2 | 171 | 0.36 | 116 | < 10 | 60 | | | |

CERTIFICATION Jhai D. Ma