TANZILLA EXPLORATIONS LTD. (N.P.L.)

Pb 1 to 28 Mineral Claims
Watson Lake M.D. Yukon, 105 - I - 12
Lat. 62° 36' N. Long. 129° 30' W.

GEOCHEMICAL REPORT
on
Work Conducted Between
June 21 and July 31, 1973
by
H.S. Aikins, C.E.T.
under the supervision of
P.H. Sevensma, Ph.D., P.Eng.
Peter H. Sevensma, Consultants Ltd.


This report has been examined by the Geological Evaluation Unit and is recommended to the Commissioner to be considered as representation work in the amount of $4,140.15.

Resident Geologist or
Resident Mining Engineer

Considered as representation work under Section 53 (4) Yukon Quartz Mining Act.

Commissioner of Yukon Territory
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<td>Pb Claim Group</td>
<td>1&quot; = 1/2 mile.</td>
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<tr>
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<td>1&quot; = 1000 feet.</td>
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## Appendices


## References

- A Reconnaissance Across the Mackenzie Mountains, Keele 1910
- Map 8-1967 - NAHANNI, Green, Roddick & Blusson. 1967
TANZILLA EXPLORATIONS LTD. (N.P.L.)

Pb 1 - 28 Mineral Claims
Geochemical Report.
Peter H. Sevensma Consultants Ltd.

INTRODUCTION:

The initial block of 24 claims in this group was acquired by Tanzilla Explorations Ltd. under a staking agreement. Staking commenced on November 28, 1972 following an announcement on November 22, 1972 that Canex Placer Limited had discovered an apparent strata form zinc-lead deposit. Interest in this discovery resulted in the subsequent acquisition of ground by some 30 companies along a belt some 50 miles in length by up to 10 miles in width. Prospecting, geological mapping, geochemical surveys and diamond drilling were methods employed in the evaluation of these holdings. Encouraging results have been reported by several of the companies.

A geochemical survey on the Pb group of claims was conducted during June and July of this year and four additional claims were staked to cover open ground along the west boundary.

PROPERTY:

The Pb group now consists of 28 mineral claims. Tanzilla Explorations Ltd. (N.P.L.) is the holder of all claims, details of which are recorded as follows:-

<table>
<thead>
<tr>
<th>Claim</th>
<th>Record No.</th>
<th>Record Date</th>
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</table>

The location of the property is shown on figure 2 attached.
LOCATION AND ACCESS:

The property is located 105 air-miles east-north-east of the community of Ross River. A small lake one-half mile east of the property is suitable for float equipped aircraft under favourable conditions.

Geographical co-ordinates of the south east corner of the claim group are 62° 36' North, 129° 30' West.

The claim group extends across the south side of a broad valley crossing the continental divide at the east edge of the claim group. Relief is gentle to moderate with elevations ranging from 4000 feet to approximately 4700 feet above sea level.

Scrub alder and widely scattered spruce along the valley floor give way to more heavily wooded terrain along the flank slopes. White spruce is the principal species and grows to a diameter of from 6 to 8 inches and extends to a height of perhaps forty feet. The tree line varies according to exposure and may extend to 5000 feet although 4700 feet is about average.

GEOLOGY:

The "Summit Lake Area" is located in the Selwyn Mountains, a series of rugged ranges separated by broad valleys, in which many of the rivers of the region originate.

The area has been glaciated and the main valleys are floored with drift. Eskers are well preserved in the smaller valleys.

Rocks/
Rocks of the Selwyn Basin comprise a thick succession of predominately pelitic sediments grading quite abruptly to carbonate rocks as the eastern margin of the basin is approached. The total thickness of paleozoic sediments may exceed 15000 feet along the geosynclinal axis. A partial hiatus between Upper Cambrian and Devonian strata suggests the presence of an unconformity. In the Mackenzie Mountains to the north and east an unconformity has been mapped at the base of the Upper Ordovician. It is indicated that some Upper Ordovician is included with the unit mapped as Devonian.

A series of small granitic intrusions are located along an arcuate trend located some 6 miles to the north east of present activity. Metamorphism adjacent to these plutons is limited although skarn and minor hornfels have been noted and indications of mineralization are not uncommon.

Structural trends and fold axes strike dominantly north west. Tightly compressed and slightly overturned fold characterize the area of current interest. Plunges appear to be shallow to the north west although there is some suggestion that a north east trending system may also exist.

A lack of marker beds and local deformation will continue to provide problems in tracing formation boundaries and structural trends.

Two units occur in the area of interest. G.S.C. Unit 18b identified as undivided Devonian on figure 2, includes rocks as old as Upper Ordovician. The underlying carbonate is identified as Upper Cambrian.

Sediments of unit 18b include black shales, argillite, siltstone, chert pebble conglomerate and chert. The basal portion of this unit is known to/
to include black graptolitic shale, argillaceous limestone and bedded lime-
stone of the Ordovician-Silurian Road River Formation. This latter formation
is tentatively identified as the host for the recently discovered strataform
zinc-lead occurrence.

In many areas of the district, the Road River exposures are
covered by relatively thin overburden, or the formation occurs at shallow
depth only.

GEOCHEMICAL SURVEY:

Method

The claims location lines were used for control and samples
were taken at intervals of 500 feet along these lines and also along lines at
right angles at each claim post location. All lines were cut or blazed and
flagged to permit ready relocation of all sample sites. A total of 89 samples
were taken at this stage of the program.

Permafrost was encountered in virtually all sample locations at
a depth of only inches below the ubiquitous cover of moss and A, organics.
The Volcanic ash layer varied from 3 to 6 inches in depth and required that
several sites be tested to obtain penetration. The paleo A-B horizon was
poorly developed and often absent requiring that samples be taken from the
upper 1 to 2 inches of exposed mineral soil below the ash layer. A shovel
was found to be an effective tool as a large surface area could be cleared of
moss and ash quite readily. All samples were placed in Kraft bags identified
with grid co-ordinates.

On/
On July 16, after receiving results of the initial survey an additional 13 samples were taken to test and to further define the anomalous trends suggested by the previous survey. These results have been incorporated in the data presented on the attached figure 3.

Analysis was performed by Vangeochem Labs. Ltd. and analytical procedures and results are contained in the appendix to this report.

Interpretation

Evaluation of the initial results obtained for zinc reveal that 12.7% of the values exceed 350 p.p.m. and that 6.8% exceed 700 p.p.m. If the lower value is selected as the anomalous threshold the distribution map reveals a pattern which conforms to the stratigraphic sense of the underlying formation.

The wide spacing along the north-south lines (i.e. 500 feet) provides insufficient data on which to estimate width but figure 3 suggests that there are two zones some 2,000 feet apart both of which are traced for about 4,000 feet.

Lead values do not provide any recognizable pattern of distribution. The average of all lead samples is 23.5 p.p.m.

An outcrop of banded, dark grey, fine grained limestone is exposed on a ridge located along the south boundary of Pb 15 mineral claim. Rock fragments and float observed over much of the property consist primarily of shale and argillite. This tends to support the premise that the anomalous area is located near the contact between Devonian-Mississippian sediments and underlying Cambrian and Ordovician carbonates. Finely banded pyrite was observed in specimens of dark argillite float found on Pb 7 claim.
SUMMARY:

Significantly anomalous zinc values were obtained in close proximity to the horizon where zinc-lead mineralization occurs within this belt. The Pb claim group warrants evaluation by further work conducted under geological supervision to determine the source of the zinc detected by this reconnaissance program.

RECOMMENDATIONS & COST ESTIMATE:

Detailed geochemical work and careful float prospecting followed by hand or mechanical trenching is suggested as a logical follow-up to this initial survey. Geophysical methods may be employed although the mineralization which characterizes this belt does not provide a strong response to methods commonly employed. Diamond drilling would be warranted after definition of targets by the above methods. The following cost estimate is provided.

Geological mapping & Supervision
1 month @ $1,500 per month. $ 1,500.00

Soil sampling (including grid preparation)
350 samples @ $10.00 per sample inclusive 3,500.00

Tests pits, Trenching & Prospecting
2 man/months @ $1,000 per month 2,000.00

Provision for Geophysical Survey (electromagnetic)
10 line miles @ $250 per mile inclusive 2,500.00

Mobilization, Aircraft Charter, Travel, etc. 4,000.00

Camp Cost, all inclusive
150 man/days @ $10.00 per day 1,500.00

Engineering & Consulting Services
Reports, maps, Fees & Expenses 3,000.00

Contingency Allowance @ 10% 2,000.00

ESTIMATED/
ESTIMATED TOTAL COST  $20,000.00

Respectfully submitted,

H.S. Aik

H.S. Aikins, C.E.T.

Endorsed By:

P.H. Stevenson, Ph.D., P.Eng.
STATEMENT OF QUALIFICATIONS

I, HAROLD S. AIKINS, of 376 East 4th St., North Vancouver, B.C.
DO HEREBY CERTIFY:

1. THAT I have been continuously engaged in a technical capacity in mining and mineral exploration geology since 1950.

2. THAT I have completed a programme of studies in accordance with standards set by The Society of Engineering Technologists Of The Province of British Columbia and am a member with the grade of Senior Engineering Technician.

3. THAT the information contained in this report is based on work which I conducted under the supervision of an Engineer registered by the Association of Professional Engineers of the Province of British Columbia and of the Association of Professional Engineers of Yukon Territory.

Respectfully Submitted:

H.S. Aikins, C.E.T.

Vancouver, B.C.
CERTIFICATE

I, PIETER H. SEVENSMA, of 7052 Sierra Drive, Burnaby in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Consulting Geologist, with a business address at 715-850 West Hastings Street, in the City of Vancouver, in the Province of British Columbia.

2. THAT I am a graduate of the University of Geneva, Switzerland (Physics and Chemistry, 1937; Geology and Mineralogy, 1937) where I obtained my Ph.D. in Geological and Mineralogical Sciences in 1941.

3. THAT I am a Registered Professional Engineer in the Geological Section of the Association of Professional Engineers of the Province of British Columbia and of the Association of Professional Engineers of Yukon Territory.

4. THAT I have practiced my profession as a Geologist for the past 34 years.

5. THAT I have not personally examined the PB Group of claims in the field, but that I have examined a number of mineral occurrences along the Yukon - N.W.T. boundary in the area to the South-East, in the Godlin Lakes area to the East and in the McMillan Pass area to the North-West.

6. THAT I have no interest, either directly or indirectly in any of the securities or properties of Tanzilla Exploration Ltd.

Respectfully Submitted:

[Signature]

P.H. Sevensma, Ph.D., P.Eng.

Vancouver, B.C.
REPORT No. 73-09-001  DATE    July 6, 1973
Job No. 73-136  COMPANY Aikins Explorations Services Ltd.
SAMPLES SUBMITTED BY Sam Aikins  FROM Yukon
SHIPPED VIA delivered  REPORT ON 89 soils for Pb, Zn DATE SAMPLES ARRIVED July 3, 1973

* * *

COPIES OF THIS REPORT SENT TO:  TRANSMITTED BY:
(1) Aikins Explorations Services Limited
(2)
(3)

SAMPLES SIFTED OR GROUND TO -80 MESH WEIGHT USED 0.50g
FINAL VOLUME 10 ml  ALIQUOT USED n/a

* * *

METHOD OF ANALYSIS: Instrumental Atomic Absorption
EXTRACTION: Hot HClO₄ & HNO₃ digestion

DETECTION: Techtron AA5 & AA1000

SAMPLES ASSIGNMENT: (a) PREPARED SAMPLES: filed
(b) REJECTS: discarded

* * *

ANALYST(S) W.L., L.S.  TYPIST d.w.
SUPERVISING CHEMIST C. Chun  CHECKED BY C. Chun

COSTS:
SHIPPING CHARGE $ 
SAMPLE PREPARATION $ 
ANALYSIS $ 
OTHER $ 
TOTAL $ 

SPECIALIZING IN TRACE ELEMENT ANALYSIS
## MARKING | Pb | Zn
---|---|---
(B) AO+00W-0+0ON | 32 | 142
5+00N | 40 | 260
(B) AO+00W-15+0ON | 27 | 153
(B) BO+00W-0+0ON | 3 | 12
(B) BO+00E-0+0ON | 2 | 6
(B) BO+00W-5+00S | 30 | 130
(B) BO+00W-10+00S | 38 | 172
(B) B10+00E-0+0ON | 12 | 67
BO+00-30W | 20 | 138
35W | 30 | 135
40W | 40 | 124
45W | 35 | 340
50W | 27 | 120
55W | 23 | 54
60W | 70 | 125
65W | 12 | 35
70W | 14 | 75
BO+00-75W | 25 | 135
B45-5N | 25 | 165
B45-10N | 20 | 126

## MARKING | Pb | Zn
---|---|---
B45-15A | 31 | 205
55 | 20 | 175
10S | 30 | 186
B45-15S | 50 | 354
B60-10+00N | 15 | 57
15+00N | 30 | 260
5+00S | 32 | 132
10+00S | 25 | 393
B60-15+00S | 30 | 760
B75-5+00S | 5 | 12
10+00S | 5 | 16
15+00S | 20 | 195
10+00N | 32 | 289
B75-15+00N | 20 | 138
Stream samples #1 | 65 | 680
AO+00W-5+00N | 17 | 140
AO+00W-10+00N (B) | 32 | 220
AO+00N-5+00W | 35 | 155
AO+00N-10+00W | 20 | 115

**Remarks**

(B) samples have blue markings

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.
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**REMARKS**

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.
**REPORT**

**No.** 73-09-001

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- A0+00-55+00N
- B60-5+00N

**REMARKS**

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.
**Vancouver Geochemical Laboratories Ltd.**
1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE 604-988-2172

**GEOCHEMICAL ANALYTICAL REPORT**

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<td>COMPANY</td>
<td>Aikins Exploration Services Ltd.</td>
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**COPIES OF THIS REPORT SENT TO:**
(1) Aikins Exploration Services Limited
    #715, 850 West Hastings Street,
(2) Vancouver, B.C.
(3) 

**SAMPLES SIFTED OR GROUND TO** -80 MESH WEIGHT USED 0.50g

**FINAL VOLUME** 10 ml **ALIQUOT USED** n/a

* * *

**METHOD OF ANALYSIS:** Instrumental Atomic Absorption

**EXTRACTION:** Hot HClO4- HNO3 digestion

**DETECTION:** Techtron AA5 & AA1000

**SAMPLES ASSIGNMENT:**
(a) PREPARED SAMPLES: Filed
(b) REJECTS: discarded

* * *

**ANALYST(S)** W.L. & L.S. **TYPIST** sm

**SUPERVISING CHEMIST** L. Nicol **CHECKED BY** C. CEXED

**COSTS:**

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**SPECIALIZING IN TRACE ELEMENT ANALYSIS**
**Vancouver Geochemical Laboratories Ltd.**

1521 PEMBERTON AVENUE  
NORTH VANCOUVER, B.C. CANADA  
TELEPHONE 604-988-2172

**JOB NO. 73-172**

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**MARKING**

- Stream

**REMARKS**

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.
CANADA
YUKON TERRITORY

TO WIT:

I, Harold S. Aikins
of 376 East 4th Street
North Vancouver, B.C.

HEREBY MAKE OATH AND SAY AS FOLLOWS:-

That attached hereto, this my Affidavit, marked Appendix "A" and "B" respectively is a list of personnel employed in the performance of the work and a statement of the costs incurred for this work which I certify to be correct to the best of my knowledge and belief.

SWORN before me at the City of Vancouver,
Province of British Columbia
this 23rd day of November A.D. 1973.

[Signature]
# Statement of Personnel employed in a Geochemical Survey of the Pb Group of Mineral Claims

<table>
<thead>
<tr>
<th>Name</th>
<th>Address</th>
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<td>P.H. Sevensma, Ph.D., P.Eng.</td>
<td>715-850 West Hastings St. Vancouver 1, B.C.</td>
<td>November 22, 1973 and various earlier dates.</td>
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APPENDIX 'B'

Statement of Costs incurred in a Geochemical Survey of the Pb Group of Mineral Claims.

Cost breakdown is given in detail on the attached invoices, a summary of which is given below:

H.S. Aikins Exploration Services Ltd.
715-850 West Hastings St., Vancouver, B.C.

Invoice of July 12, 1973  $3,500.85
Invoice of July 15, 1973    202.35
Invoice of July 31, 1973   244.60  204.00  3,990.15
Invoice of Sept. 4, 1973   82.95

TOTAL EXPENDITURE  $4,180.15

Peter H. Sevensma Consultants Ltd.
715-850 West Hastings St., Vancouver, B.C.

Invoice of July 14, 1973.  150.00

TOTAL EXPENDITURE  $4,180.15
INVOICE TO: Tanzilla Explorations Ltd.
Suite 4, 558 Howe Str.
Vancouver, BC


Services.

P.H. Sevensma. One day all inclusive. $150.00

Accounts due when rendered.

Paid
Deposit Aug 14/73

Client.
H. S. Aikins Exploration Services Ltd.
715-850 West Hastings St.
Vancouver, B.C.

INVOICE TO: Tanzilla Explorations Ltd.,
5th 4 - 558 Howe Street,
Vancouver 1, B.C.

DATE: July 12, 1973

Period June 21 to 27 incl.

Re: Geochemical Survey,
Pb Claim Group (field work only)

<table>
<thead>
<tr>
<th>Services</th>
<th>Description</th>
<th>Hours</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Technician</td>
<td>(H.S. Aikins)</td>
<td>5</td>
<td>$80.00</td>
<td>$400.00</td>
</tr>
<tr>
<td>Crew Chief</td>
<td>(A. Kendrick)</td>
<td>6½</td>
<td>$65.00</td>
<td>$422.50</td>
</tr>
<tr>
<td>Linecutter</td>
<td>(G. Williams)</td>
<td>6½</td>
<td>$50.00</td>
<td>$325.00</td>
</tr>
<tr>
<td>Soil Sampler</td>
<td>(R. Jones)</td>
<td>6½</td>
<td>$50.00</td>
<td>$325.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>$1,472.50</td>
</tr>
</tbody>
</table>

Disbursements:

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Fare - 2 men Vancouver-Watson Lake, your share</td>
<td>$154.00</td>
</tr>
<tr>
<td>Watson Lake Flying Service, July 4 Invoice</td>
<td>$497.70</td>
</tr>
<tr>
<td>Trans North Turbo Air Invoice 1267-3</td>
<td>$148.05</td>
</tr>
<tr>
<td>Trans North Turbo Air Invoice 1195-3</td>
<td>$256.75</td>
</tr>
<tr>
<td>Terr Air Ltd Invoice 00913</td>
<td>$300.00</td>
</tr>
<tr>
<td>Vancouver Geochemical Invoice 2478</td>
<td>$146.85</td>
</tr>
<tr>
<td>5% Service Charge on above items</td>
<td>$75.00</td>
</tr>
<tr>
<td></td>
<td>$1,578.35</td>
</tr>
<tr>
<td>Truck Rental, 3 days and 525 miles</td>
<td>$150.00</td>
</tr>
<tr>
<td>Camp supplies, equipment and groceries: 20 man days</td>
<td>$300.00</td>
</tr>
<tr>
<td></td>
<td>$2,028.35</td>
</tr>
<tr>
<td>CREDIT - Payment received June 19, 1973</td>
<td>$3,500.85</td>
</tr>
</tbody>
</table>

ACCOUNT RENDERED

TERMS: 30 DAYS - 1% PER MONTH CHARGED ON OVERDUE ACCOUNTS
H.S. Aikins Exploration Services Ltd.
715-850 West Hastings St.
Vancouver, B.C.

INVOICE TO: Tanzilla Explorations Ltd. (N.P.L.)  DATE: July 15, 1973
Ste. 4 - 558 Howe St.
Vancouver 1, B.C.


Services, H.S. Aikins, Sr. Technician
2½ days, Office studies, drafting

Disbursements,
Western Reproducers, invoice GS 29730

Account Rendered

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Services</td>
<td>$200.00</td>
</tr>
<tr>
<td>Disbursements</td>
<td>2.35</td>
</tr>
<tr>
<td></td>
<td>$202.35</td>
</tr>
</tbody>
</table>

TERMS: 30 DAYS — 1% PER MONTH CHARGED ON OVERDUE ACCOUNTS
INVOICE TO: Tanzilla Explorations Ltd. (N.P.L.) DATE: September 4, 1973
Sta. 4 - 550 Howe Street
Vancouver 1, B.C.

Re: Pb Group

Disbursements,

Air Charter ticket, W.I. Flying Service #8228 $79.00
Service Charge (5%) 3.95

Account Rendered $82.95

TERMS: 30 DAYS — 1% PER MONTH CHARGED ON OVERDUE ACCOUNTS
INVOICE TO: Tanzilla Explorations Ltd.
Sta. 4 - 558 Howe St.
Vancouver 1, B.C.

DATE: July 31, 1973


Re: Geochemical Survey (additional samples) Pb Group
Examination by Noranda Explorations Ltd. - July 16/73.

<table>
<thead>
<tr>
<th>Services: H.S. Aikins, Sr. Technician</th>
</tr>
</thead>
<tbody>
<tr>
<td>1½ days @ $80.00 per day</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disbursements: VanGeochem (assays) invoice 2531</th>
</tr>
</thead>
<tbody>
<tr>
<td>(testing solution, part)</td>
</tr>
<tr>
<td>CPA, Air-fare, your share</td>
</tr>
<tr>
<td>Car-fare &amp; parking, your share</td>
</tr>
<tr>
<td>Service charge @ 5%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Account Rendered</th>
</tr>
</thead>
<tbody>
<tr>
<td>$120.00</td>
</tr>
<tr>
<td>$21.45</td>
</tr>
<tr>
<td>12.60</td>
</tr>
<tr>
<td>38.50</td>
</tr>
<tr>
<td>7.50</td>
</tr>
<tr>
<td>3.95</td>
</tr>
</tbody>
</table>

Quarter Act Fees: Recording 4 claims

Note: A further charge of $79.00 may be necessary to cover an aircraft charter in connection with my trip on the 16th, but I have not as yet been invoiced.

Account Rendered

$244.00

Note: HSA

TERMS: 30 DAYS — 1% PER MONTH CHARGED ON OVERDUE ACCOUNTS
TANZILLA EXPLORATIONS LTD.
Pb Claim Group
Watson Lake M.D. 105 I-12

LEGEND:
- Surface Contours, 500' interval
- Outcrop Boundaries
- Geological Contacts
- Claim & Property Boundaries
- Creeks
- DEVONIAN, Slate & Argillite
- U.CAMBRIAN, Limestone

Legend:
- 4000
- 1000
- 500
- 500
- 500

TANZILLA
Pb Group

MAKAOO DEV

VESTOR

CANEX

COLT RES

DYNAStY

Modified from U.S. Map E-1967

Peter H. Sevensmo Consultants Ltd.