

ARIS SUMMARY SHEET

District Geologist, Smithers

Off Confidential: 94.12.02

ASSESSMENT REPORT 23244

MINING DIVISION: Skeena

PROPERTY: George Copper  
LOCATION: LAT 56 07 00 LONG 129 46 00  
UTM 09 6219115 452327  
NTS 104A04W

CAMP: 050 Stewart Camp

CLAIM(S): Rufus 2-6, Baby Rufus Fr., Wide Fr., Silver Fr., Long Fr., Argyle 1-6  
Duke Fr., New York, Atlas 1-4, Slide Fr., Connect 3 Fr., Doc 3, Dave 1  
It 1-2

OPERATOR(S): Int. Tournigan

AUTHOR(S): Javorsky, D.

REPORT YEAR: 1993, 24 Pages

COMMODITIES

SEARCHED FOR: Gold, Copper

KEYWORDS: Jurassic, Hazelton Group, Beep mat survey  
WORK

DONE: Prospecting, Physical

PROS 50.0 ha

Map(s) - 2; Scale(s) - 1:18 000, 1:63 360

TRAL 10.0 km

MINFILE: 104A 029, 104A 129

LOG NO:	JAN 31 1994	RD.
ACTION:		
FILE NO:		

1993

ASSESSMENT REPORT

On the

GEORGE COPPER GROUP

For

INTERNATIONAL TOURNIGAN CORPORATION

<b>SUB-RECORDER</b> RECEIVED
JAN 20 1994
M.R. # _____ \$ _____
VANCOUVER, B.C.

BEAR PASS AREA **E**OLOGICAL BRANCH  
ASSESSMENT REPORT

23,244

Stewart, B.C.

Skeena Mining Division

NTS 104A/4W

129°46' West Longitude

56°07' North Latitude

By:

David Javorsky  
(Prospector)

December 1993

FILMED

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INTRODUCTION:

The George Copper Group of mineral claims lie on both sides of the Bear Pass Highway 25km Northeast of Stewart, British Columbia (Map area 104A/4W). This area is well mineralized. Prospectors have been attracted to the area by the gossan stained cliffs that contrast with glaciers, icefields and pastal coloured volcanic rock bluffs. The highly bleached pale zone of alteration with rusty adjoining coloration is very distinctive. The topography is rugged with glacier carved "U" shaped valleys and near vertical cliffs abundant.

The 1993 assessment work program on behalf of International Tournigan Corporation consists of road and trail maintenance, exploration prospecting and geophysics. A Beep Mat was used to locate "EM" conductors and magnetic minerals. Various samples were taken and submitted for assay. Because of the lateness in the year before work was allowed to start, snow conditions created problems.

The results of the 1993 program include the location of the Atlas, the George Gold Copper, the Rufus, the Veteran and the Red Top pack horse trails, brushing out part of the Rufus and the Red Top trails, locating and road work on the Veteran trail.

A "Beep Mat" was dragged west to east across the claim block, along the power line access trail to block out "EM" conductors. Also up and down the trails as snow conditions allowed.

The Stewart area is one of the most mineralized areas of British Columbia, hundreds of mineral showings were recorded by 1929, (See Appendix 'C', Map Showing Mining Properties in vicinity of Stewart and Salmon River by Darby Morkill, B.C.L.S. May 1929). At that time 12 companies were working on the ground now held by International Tournigan Corporation in the Bear Pass Area. A recent discovery at Red Mountain 7km south of the George Copper Group has resulted in over two million ounces of gold being drilled off by Lac Minerals at an average grade of 12 grams per tonne. New ground is being exposed each year as the ice recedes.

The main showing in this group of claims is the George Copper-Gold, Minfile No. 104A-029.

## LOCATION

The center of the George Copper Group of claims is located on mineral map 104A/4W at approximately 129 46' west longitude and 56 07' north latitude. The claim block straddles the Bear Pass Highway and the center of the claim block is about 25 km N.E. of Stewart along this road. Access to the showing usually requires helicopter travel to the cliffs above the road. A network of old pack horse trails lead to many of the showing, however they all need maintenance (See Appendix 'B').

## 1993 ASSESSMENT WORK PROGRAM PHYSICAL WORK

### Rufus Trail

The old pack horse trails were located and flagged for further reference. Each was climbed to determine its condition. These trails were well established before 1929, (See Greens Map Appendix 'B' Rufus Trail). Access to the Rufus trail is from the B.C. Hydro access trail and not visible from the highway. The trail was brushed out and dead fall was removed to the area of a major slide where the trail crosses Rufus Creek. An old caved in cabin was located that contained a blacksmith shop and assay lab, for the Rufus Argenta Mining Company.

### Veteran Trail

A pack horse trail was located and flagged and the brush and dead fall was removed from the trail to the claims. A trail branches off from the Veteran trail to the Comet showing at about 2250 feet elevation.

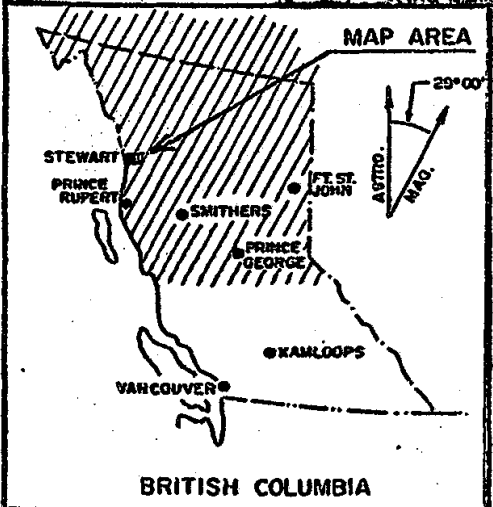
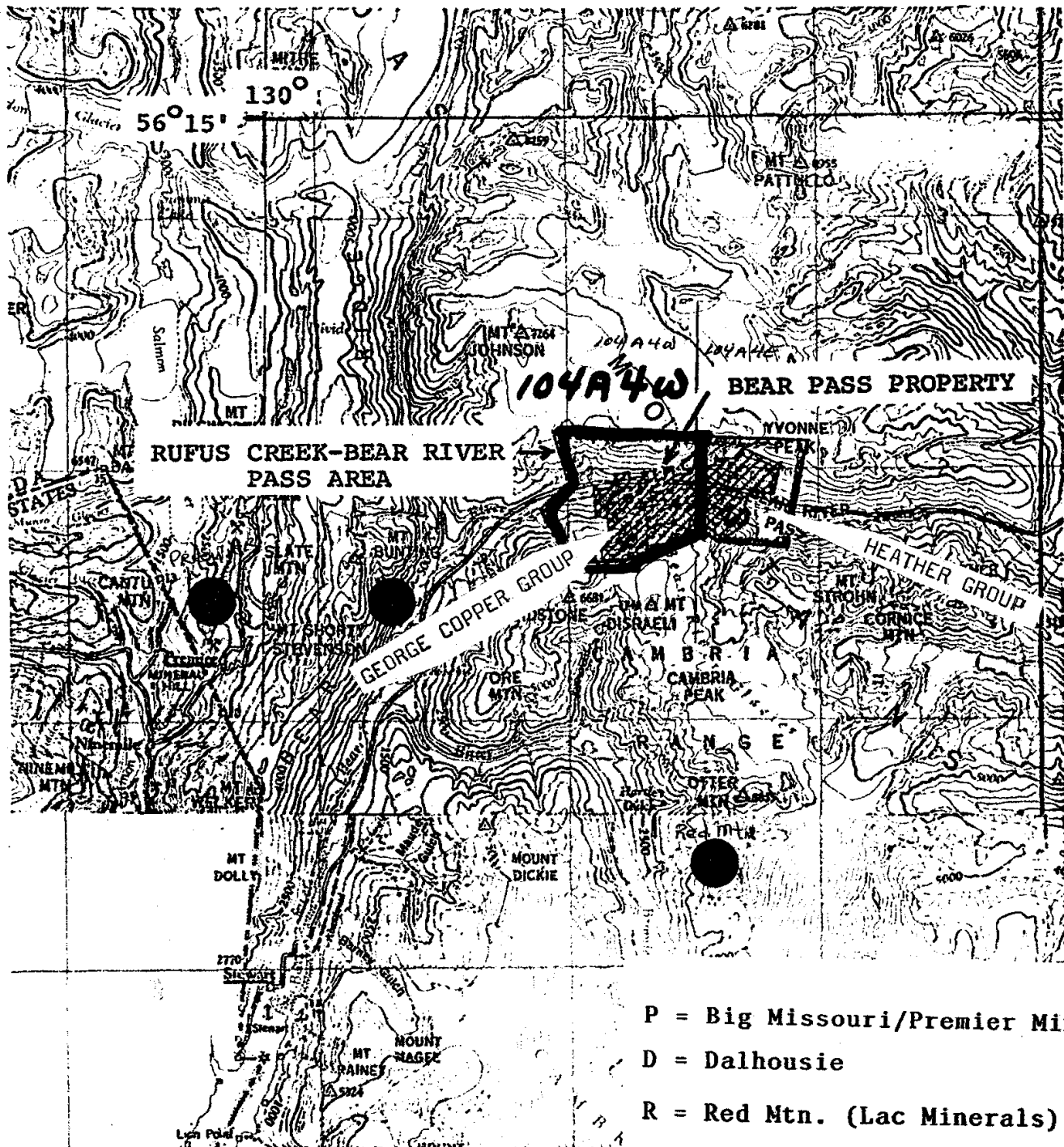
### Red Top Trail

This trail has a good grade and has been maintained at various times in the past. A couple of rock slides hide the trail now, however the trail gives a good access to the upper elevation. A discreet entrance to the trail can be made from the B.C. Hydro access road. The trail was flagged, and dead fall was cut and thrown off the trail. A brush cutter was used to clear bush off the trail.

### Atlas and George Copper Trails

These pack horse trails located on the south side of the Bear River were traversed and flagged in.

The physical work along with the exploration on the George Copper group was performed pursuant to approval permit number SMI-93-0101071-286.



LOCATION MAP

TOURNIGAN MINING EXPLORATIONS LTD.

GEORGE COPPER GROUP

LOCATION OF BEAR PASS PROPERTY  
 AND RUFUS CREEK-BEAR RIVER PASS  
 AREA

MAP 104A4E/W

Scale 1:250,000  
 (1 inch equals 4 miles)

SNOW

SNOW

Map. 104A/ 4 W

MAP 104 A/ 4 E

HEATHER GROUP

SNOW

O68

B.C. REG 181/8  
JUN 19 1989  
20 METRES OF  
SIDE OF CENTI  
SUBJECT TO C

- 4 -

SHUL 5  
7347 (3)  
6N x 3W

SHUL 6  
7348 (3)  
6N x 3E

DOC #3  
9281(4)  
4NX3W  
(219223) Ice Falls

301057  
INX1W  
219242

118056 118057

11 1  
3 (3)  
4W

SHUL 2  
7344 (3)  
5N x 4E

6 PLACER RES.  
REG. 9/1987

24

GLAD  
31375  
36X1W

SHUL 4  
7346 (3)  
5N x 4E

B.C. REG  
JUN 19 1989

GEORGE COPPER GROUP

MT. GLADSTONE

MINERAL RESERVE  
B.C./REG 05/91  
GLACIER JAN. 6 1991  
NO PARKING

ORE 7477 (3)

ORE 5  
7365 (3)  
4N x 5E

ORE 6  
7476 (3)

SARAH 7  
7910 (3)  
5N x 6W  
(80708)

MT. DISRAELI  
04

SNOW

Ice Falls

Bear River Pass

070

MINERAL CLAIM MAP

CLAIM LOCATION

Scale 1:50,000

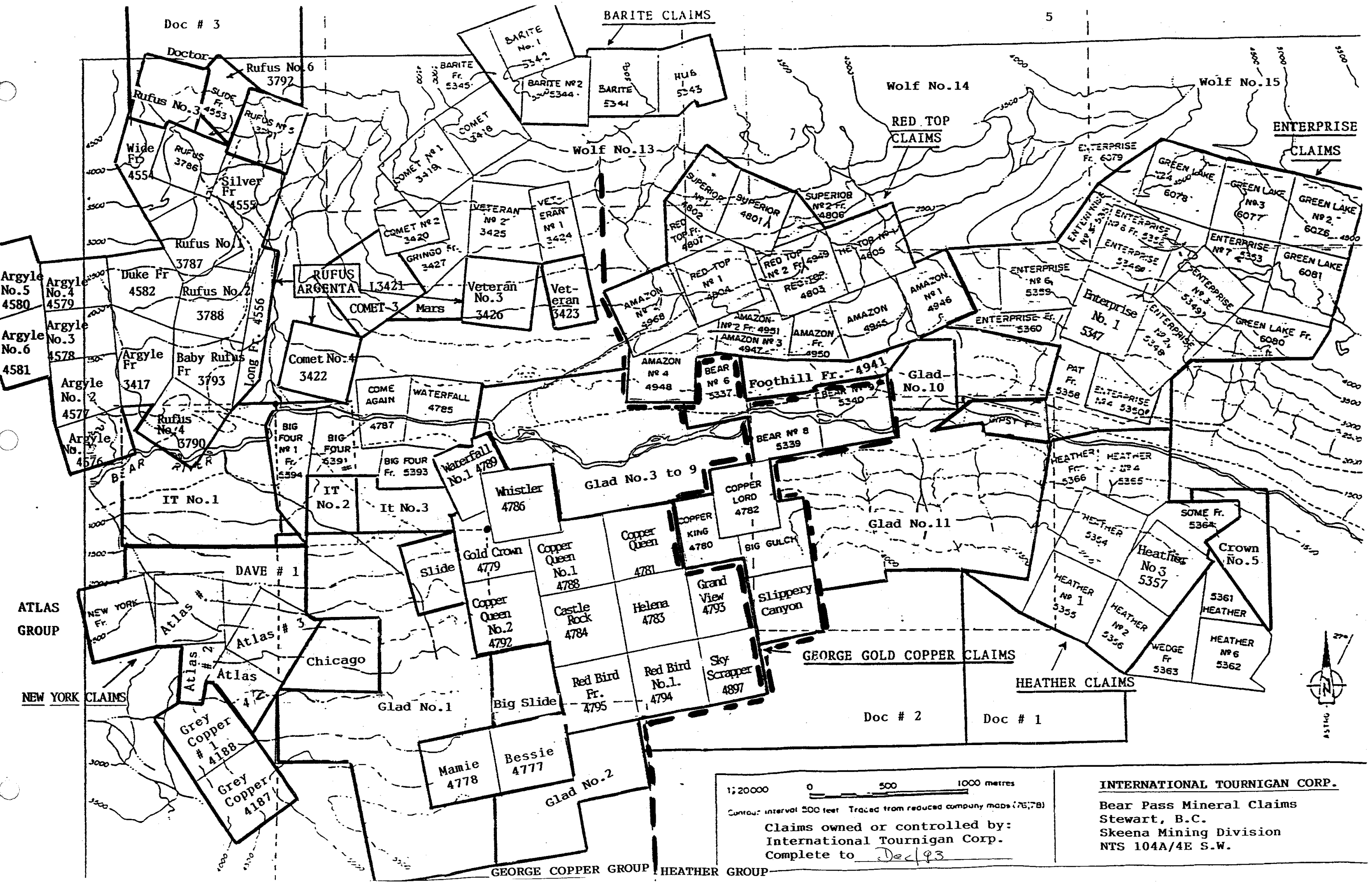
BARITE CLAIMS

RED TOP CLAIMS

ENTERPRISE CLAIMS

GEORGE GOLD COPPER CLAIMS

HEATHER CLAIMS



Argyle No. 5 4580  
 Argyle No. 4 4579  
 Argyle No. 3 4578  
 Argyle No. 2 4577  
 Argyle No. 6 4581  
 Argyle No. 3 4578  
 Argyle No. 2 4577  
 Argyle No. 4 4576

ATLAS GROUP  
 NEW YORK CLAIMS

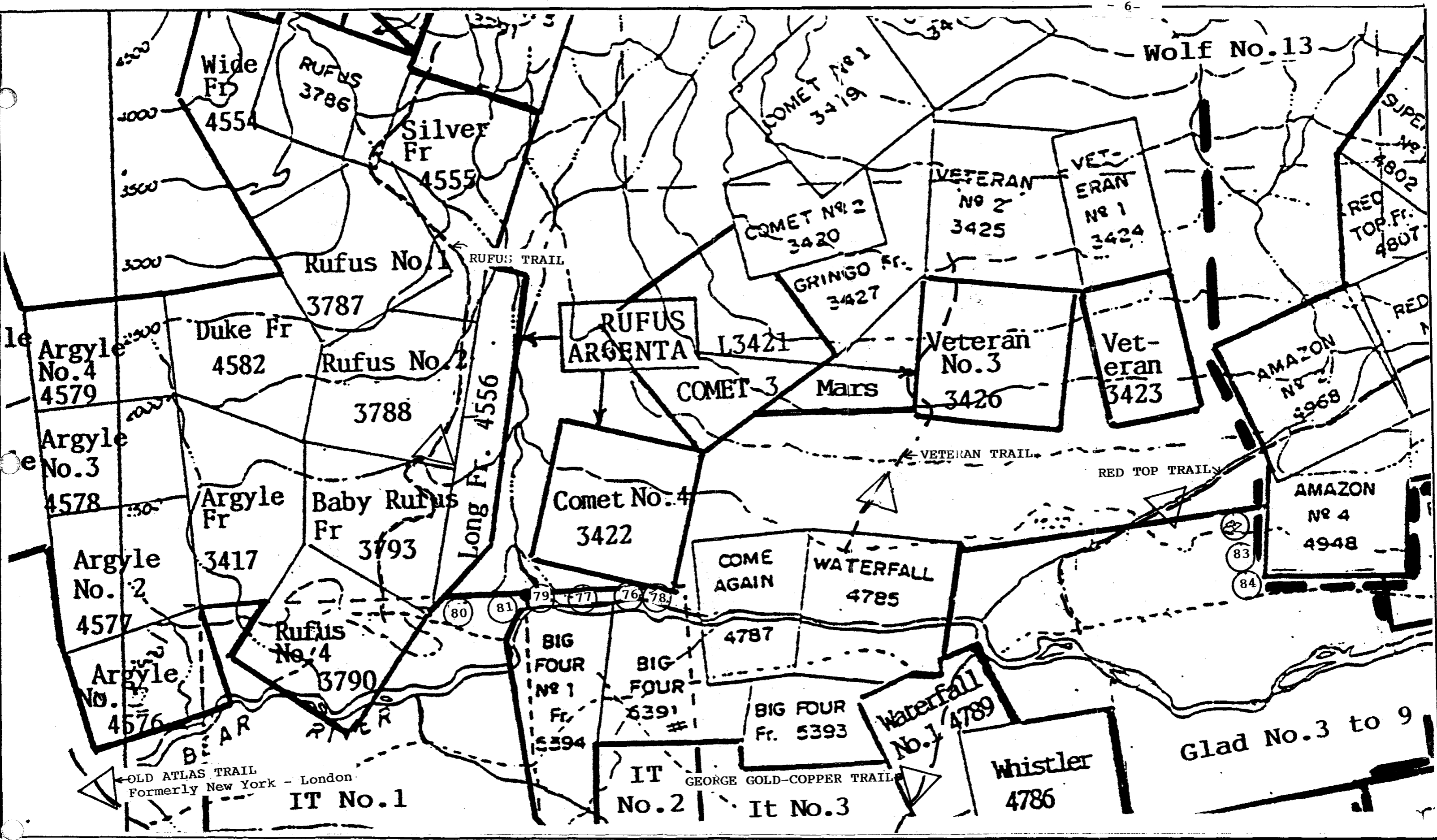
Doc # 2      Doc # 1



1:20000      0      500      1000 metres  
 Contour interval 500 feet Traced from reduced company maps (75,78)  
 Claims owned or controlled by:  
 International Tournigan Corp.  
 Complete to Dec 1983

INTERNATIONAL TOURNIGAN CORP.  
 Bear Pass Mineral Claims  
 Stewart, B.C.  
 Skeena Mining Division  
 NTS 104A/4E S.W.

GEORGE COPPER GROUP      HEATHER GROUP

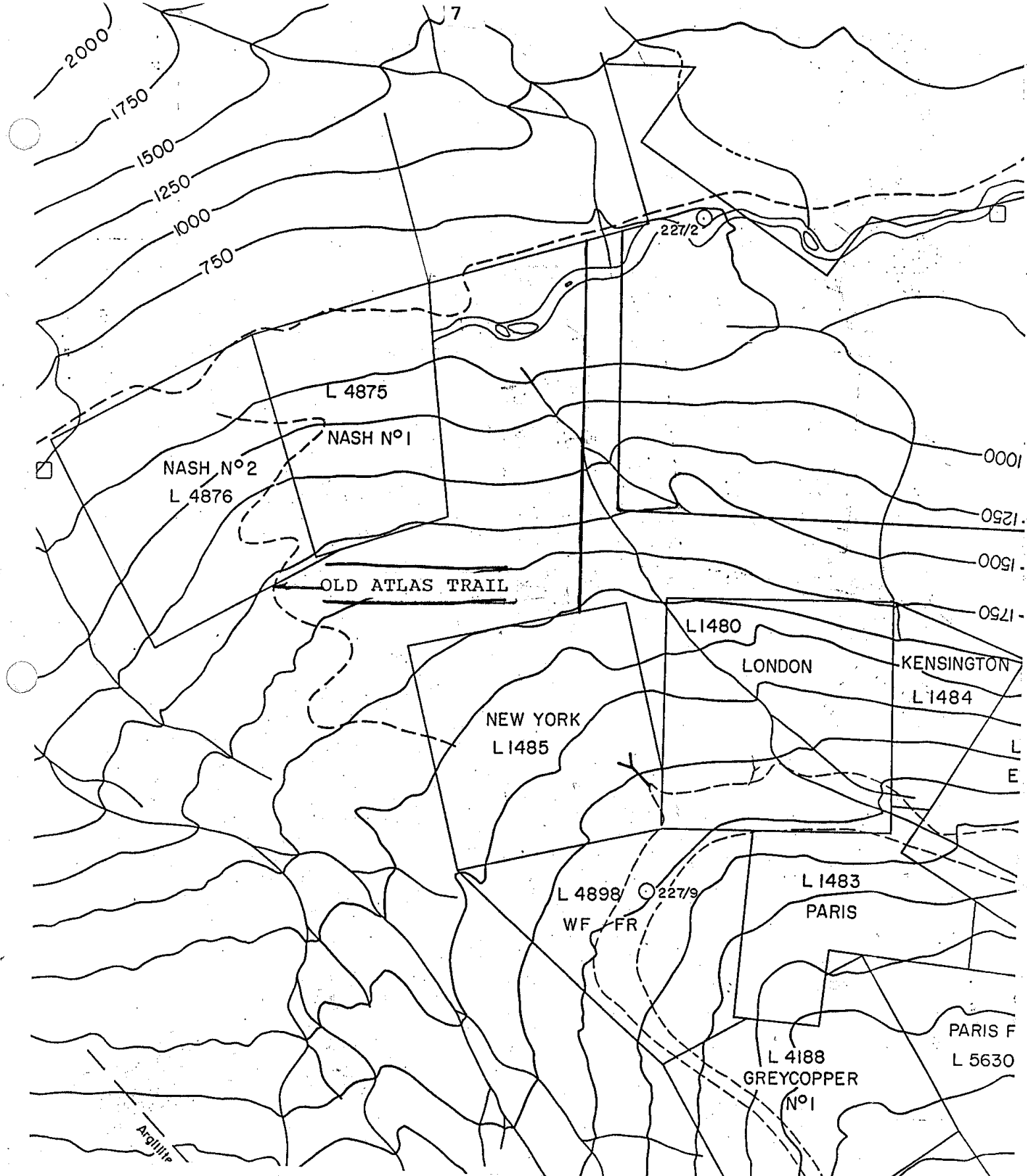




 Sample Location  
 Trail Repair

GEORGE COPPER GROUP  
 Scale 1: 10,000

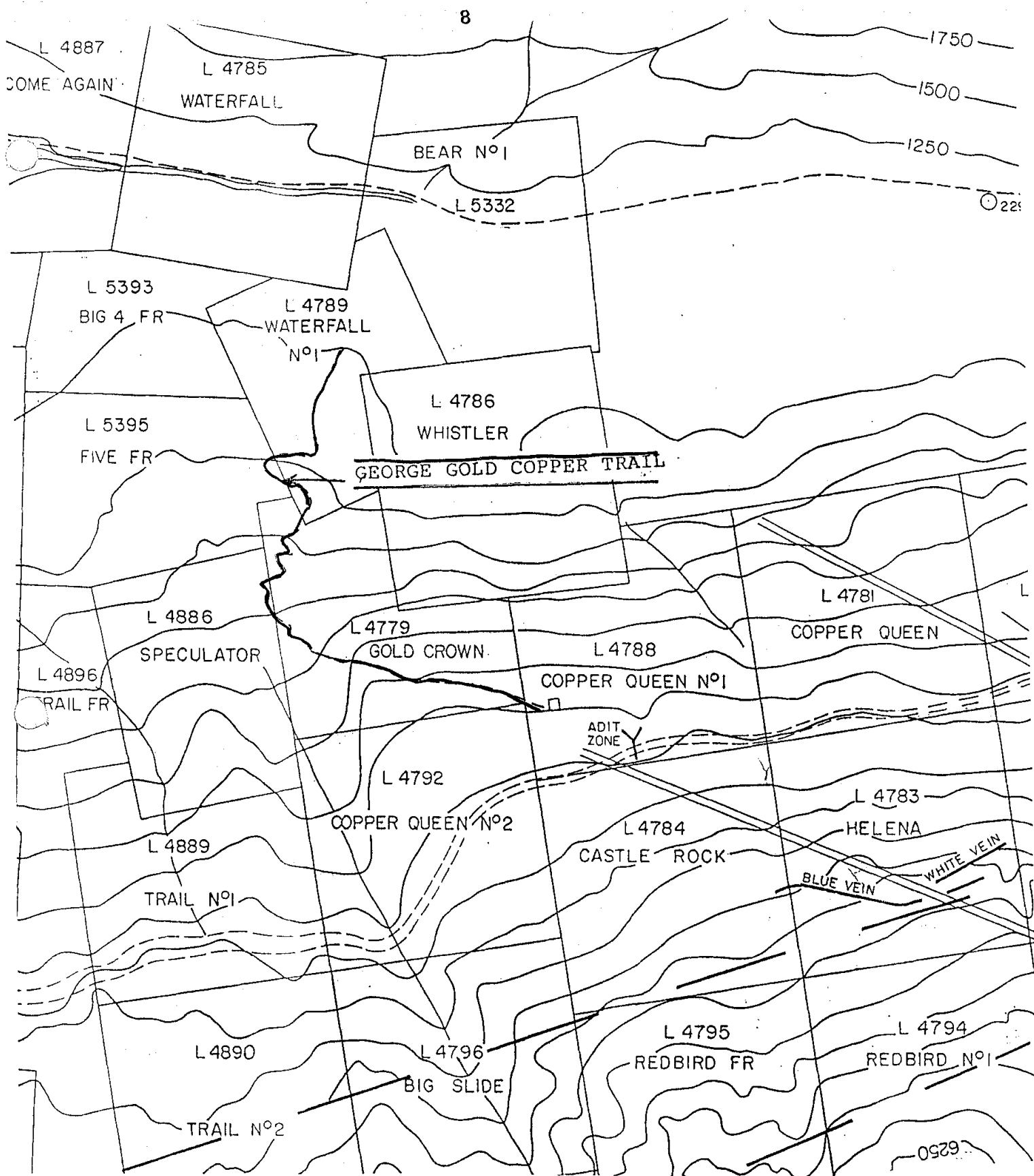
PHYSICAL WORK & SAMPLE LOCATION



OLD ATLAS TRAIL

From Bear Pass Road to the New York Crown Grant  
 Currently staked as New York Fraction.  
 Currently exist as a horse pack trail with  
 grown up brush and occasional dead fall and slide  
 rock on trail. Trail was extended to the grey copper  
 claims for the shipment of ore

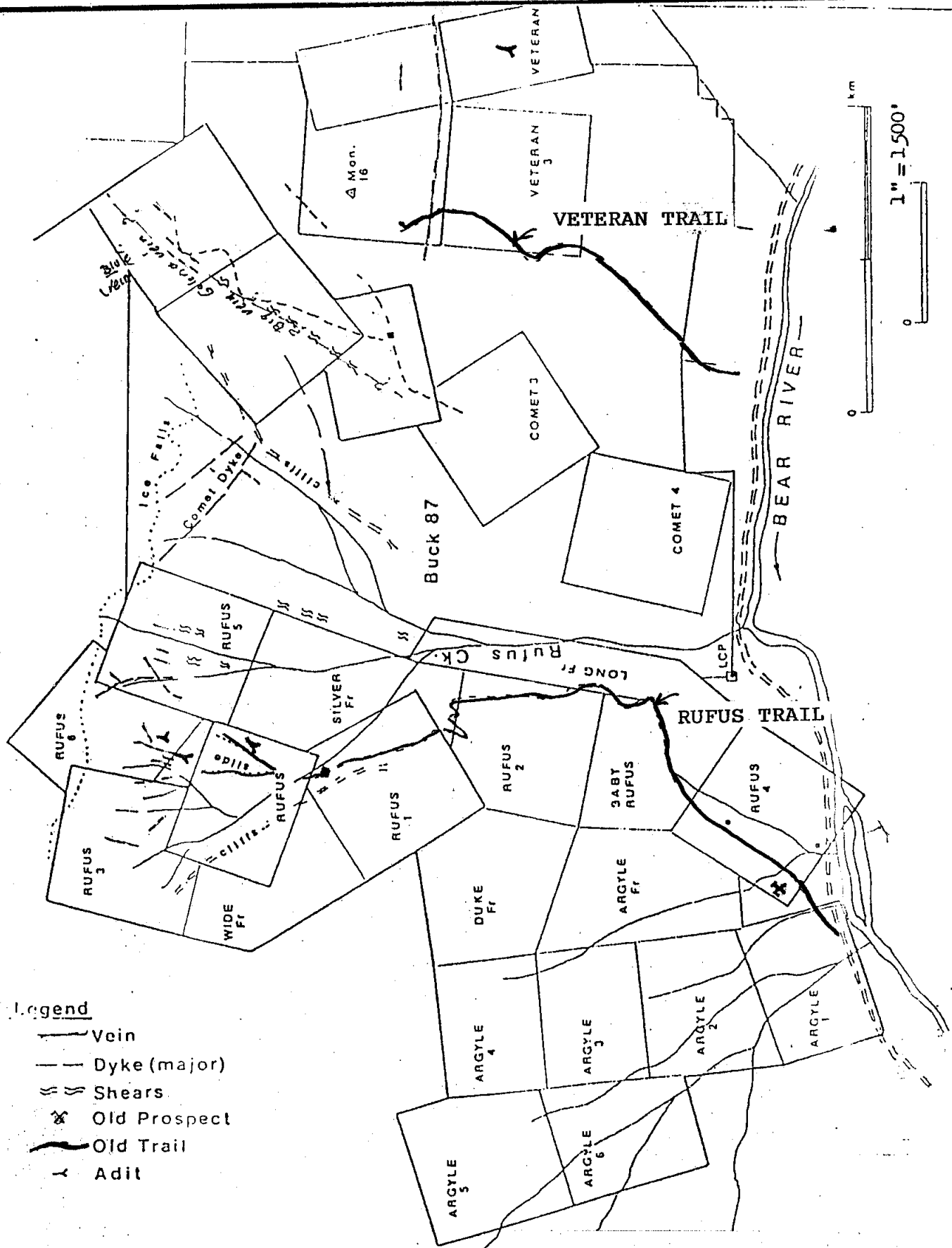
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GEORGE GOLD COPPER TRAIL

This horse trail goes from the south side of Bear River to the George Gold-Copper Mineralization zone. This deposit has been drilled and found to contain 500,000 tons grading 2 to 2.9 % Cu. 0.5 to 0.8 Au and 0.37 to 0.50 oz. Ag per ton. This pack trail was located in 1993 and flagged in, it is overgrown with brush and dead fall and slide rock.

Scale 1: 10,000



**RUFUS AND VETERAN TRAILS**

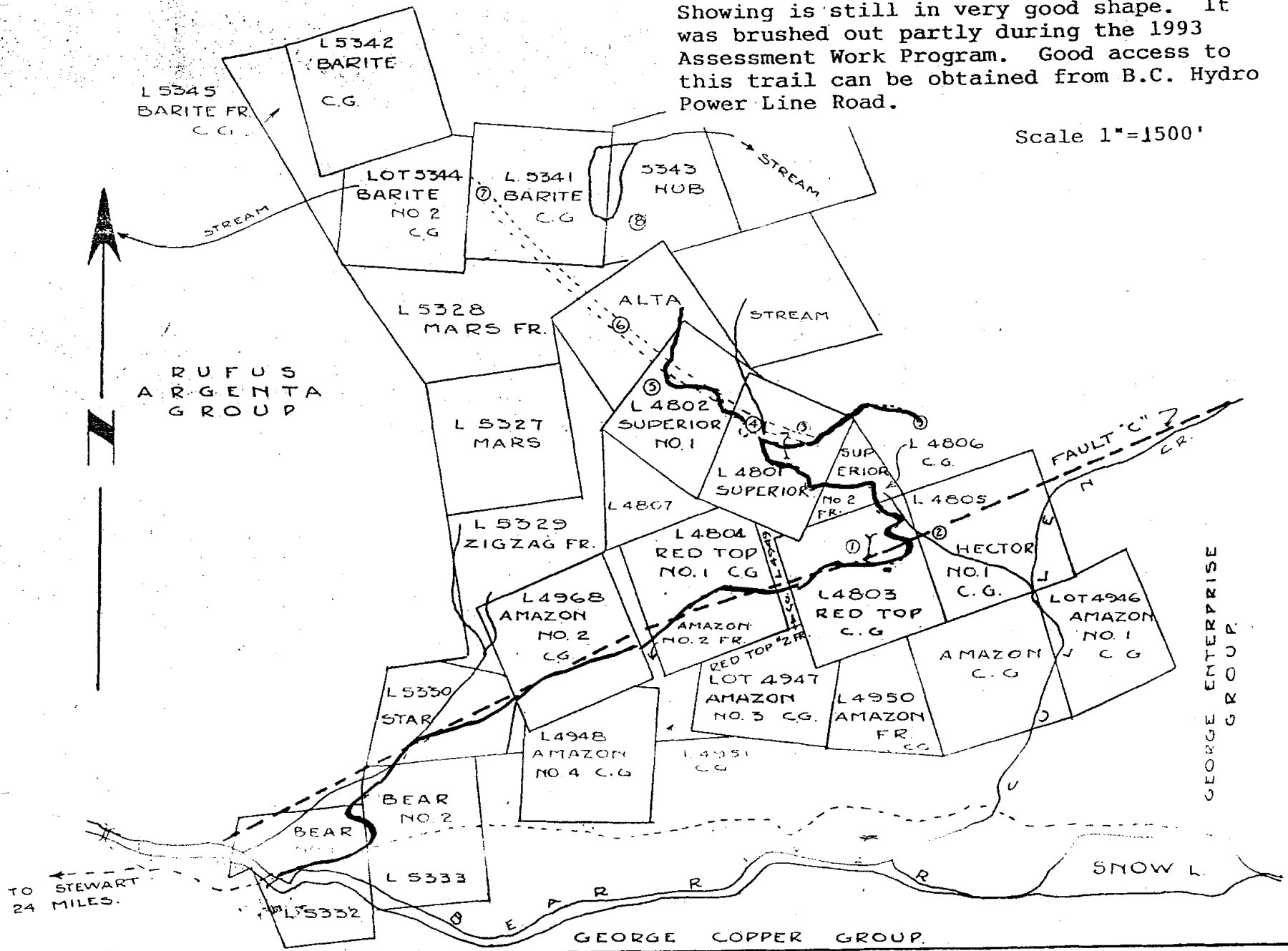
The lower portions of the Rufus & Veteran trails were located, flagged and partly brush out.

EXTENSIVE ICE CAP

RED TOP TRAIL ———

This old pack horse trail to the Red Top. Showing is still in very good shape. It was brushed out partly during the 1993 Assessment Work Program. Good access to this trail can be obtained from B.C. Hydro Power Line Road.

Scale 1"=1500'



Exploration Prospecting  
Geophysical Prospecting.

A new type of surface electromagnetometer (EM) instrument used in mining exploration to detect sulfides, conductors and magnetic minerals was investigated on the property. An antenna is dragged along the ground and the electronics (a micro processor) is carried in a chest pack. The model used was a second series "Beep Mat II-93". (See appendix 'A'. Operating techniques and Stop Screening).

The Beep Mat was dragged up each of the old pack horse trails and along the B.C. Hydro Power line access trail. The results of the survey are as follows:

Travelling west from Argyle Creek along the power line access trail the Beep Mat responded to a pile of pushed up mixed rock and soil from previous trail building. After digging 2 feet into the material a old broken set of tire chains for a log skidder was uncovered. Location 3-5M west of argyle creek north side of trail.

On traverse going easterly from Argyle Creek at 2+87E, the Beep Mat responded to quartz in a rusty 'pyrite' zone. At 5+87E it responded to broken cable and pieces of sheet metal from the camp site of the old Rufus Creek Mining Company. At 6+30M East pyrite bands were found in dark-tuff. This alteration zone, containing bands of pyrite, was easily traced back and forth under the power line; in falling snow.

Following the power line access trail west of Rufus Creek in falling snow, at 3+01 meters west, bands of pyrite (20% of total rock) was found in a fragmental dark crystal and lithic tuff. Sample #548577 and Sample #548576 also contains 1-5% galena and sphalerite. Sample #548578 has similar mineralization in what appears to be a dark greenstone rather than a tuff.

At 4+57M west of Rufus Creek a sulfide zone containing greater than 50% pyrite, rang the Beep Mat. Situated directly below power line pole #149.5, There was very good response.

Sample #54858 was taken from old pack horse trail 287 meters easterly from Argyle Creek. During falling snow under 6 inches of overburden. Silica rich rock with banded dark bluish sulfides plus disseminated pyrite crystals. At 6+60M easterly sample #548581 showed pyrite disseminated in silica flooded tuff.

Samples taken the SE corner of Reverted Crown Grant 'Veteran', L-3423, rang the Beep mat. Again disseminated and bands of pyrite in a tuff. Sample #548582, and 83, were taken as traveling downhill towards the Red Top trail. Sample #548584 rang the Beep Mat at a point 1+92 meters east on the Red Top trail. Digging at this point uncovered a silicious float bolder, well mineralized with pyrites and other dark bluish-black sulfides. It appears to be silica flooded mineralized tuff.

### Conclusion

The tuffs and greenstone that were examined, sampled and assayed. Although they contained abundant mineralization, they did not contain significant amounts of precious metals. This is common to the area, where most of the precious metal showings have been found at a higher elevation, in a different mineralized horizon. Due to the late work done in the year, it was impossible to work at the elevation of the known mineralized horizon.

A considerable delay in starting the field work was experienced while waiting for the removal of the proposed park along the Stewart Cassiar Highway. Consequently the field work was completed on trails located outside of proposed park area. The Beep Mat worked well as a detector of conductors and magnetite.

STATEMENT OF QUALIFICATIONS

I, David Javorsky, state as follows:

That I am graduate of the ADVANCES PROSPECTING SCHOOL sponsored by the B.C. Ministry of Education and the Ministry of Energy, Mines and Petroleum Resources.

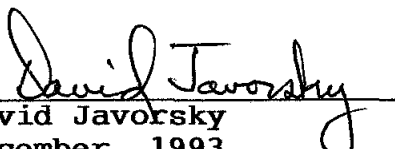
That I have completed the Petrology and Alteration for Prospectors course presented by the British Columbia Prospectors Training Program, Geological Survey Branch.

That I have spent over 25 years working in the mining, prospecting and mineral exploration industry.

That I have been instructed in the use of the Beep Mat by the manufacturer.

That I was directly involved with doing the work presented in the forgoing 1993 Assessment Work Report.

That my mailing address is: P.O. Box 806, Stewart, B.C. V0T 1W0, where I reside on glacier road.

  
David Javorsky  
December, 1993.



**CERTIFICATE OF QUALIFICATIONS**

**Re: David Javorsky**

**by:**

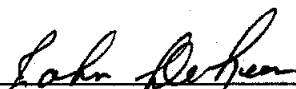
**John DeLeen, P. Eng.**

I, John DeLeen, have reviewed the work conducted by 'Prospector David Javorsky' on behalf of International Tournigan Corporation in the Bear Pass area, near Stewart, B.C. in the late fall of 1993.

I have reviewed the rocks submitted for assay, and Javorsky's geological descriptions of them and attest to their general accuracy.

The Bear Pass of British Columbia is an area of extreme weather conditions and often delays helicopter access to the claims for several days. Consequently, as a safety factor, the reopening of the trails was considered to be priority work.

Dated at Vancouver this 18th day of January, 1994.

  
\_\_\_\_\_  
John DeLeen, P. Eng.  
Senior Geologist

**INTERNATIONAL TOURNIGAN CORPORATION**

REFERENCES

APPENDIX E

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B.C. Dept. of Mines Publication



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CERTIFICATE OF ANALYSIS ETS- 93-5662

DAVID JAVORSKY  
P.O. BOX 806  
STEWART, B.C.  
V0T 1W0

**SAMPLES FROM GEORGE COPPER GROUP**

SAMPLE IDENTIFICATION: 23 ROCK SAMPLES received NOVEMBER 12, 1993

ET#	Description	AU (g/t)	AU (oz/t)	AG (g/t)	AG (oz/t)
<del>1</del>	<del>5485 76</del>	<del>.04</del>	<del>.001</del>	<del>.6</del>	<del>.02</del>
<del>2</del>	<del>5485 77</del>	<del>.06</del>	<del>.002</del>	<del>.8</del>	<del>.02</del>
<del>3</del>	<del>5485 78</del>	<del>&lt;.03</del>	<del>&lt;.001</del>	<del>.4</del>	<del>.01</del>
<del>4</del>	<del>5485 79</del>	<del>.06</del>	<del>.002</del>	<del>.3</del>	<del>.01</del>
<del>5</del>	<del>5485 80</del>	<del>.04</del>	<del>.001</del>	<del>1.0</del>	<del>.03</del>
<del>6</del>	<del>5485 81</del>	<del>.03</del>	<del>.001</del>	<del>.3</del>	<del>.01</del>
7	5485 76	.04	.001	.6	.02
8	5485 77	.06	.002	.8	.02
9	5485 78	<.03	<.001	.4	.01
10	5485 79	.06	.002	.3	.01
11	5485 80	.04	.001	1.0	.03
12	5485 81	.03	.001	.3	.01
13	5485 82	.03	.001	.1	<.01
14	5485 83	<.03	<.001	.1	<.01
15	5485 84	<.03	<.001	.3	.01
<del>16</del>	<del>5485 85</del>	<del>&lt;.03</del>	<del>&lt;.001</del>	<del>.5</del>	<del>.02</del>
<del>17</del>	<del>5485 86</del>	<del>&lt;.03</del>	<del>&lt;.001</del>	<del>.4</del>	<del>.02</del>
<del>18</del>	<del>5485 87</del>	<del>.04</del>	<del>.001</del>	<del>.3</del>	<del>.01</del>
<del>19</del>	<del>5485 88</del>	<del>.04</del>	<del>.001</del>	<del>.3</del>	<del>.01</del>
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<del>22</del>	<del>5485 91</del>	<del>.04</del>	<del>.001</del>	<del>.3</del>	<del>.01</del>
<del>23</del>	<del>5485 92</del>	<del>.04</del>	<del>.001</del>	<del>.3</del>	<del>.01</del>

FEED FAX THIS END

**FAX**

To: David Javorisky  
 Dept.: 681-83131  
 Fax No.: →  
 No. of Pages: 3  
 From: Victor

Company: Eco-Tech  
 Fax No.: 573 4557  
 Comments: Results & requested statements

Post-It FAX 040 7003E

Regards!!!

NOTE : < = LESS THAN

FAX @ 689-0288

SC93/misc

ECO-TECH LABORATORIES LTD.  
FRANK J. PEZZOTTI, A.Sc.T.  
B.C. Certified Assayer

STATEMENT OF EXPENDITURES

Assessment Work Expenses:

Labour	- 28 days @ \$150. per man day .....	\$ 4,200.00
	- 12 days were physical with chain saw and brushcutter and surveying in trails.	
	- 16 days were prospecting with a Beep Mat, general prospecting, includes 2 days of report preparation.	

Living Expenses:

	- 28 man days @ \$55/day for room and board, camp and groceries .....	1,540.00
--	--	----------

Insurance and Workmans Compensation:

	- Workmans Compensation .....	331.19
	- B.C. Medical for the period .....	192.00

Transportation:

	- Helicopter 3.2hrs @ \$813.74/hr...	2,603.97
	- 26 days Truck 4x4 3/4 ton @ \$ 50./day	1,300.00

Expenditures:

	- 11 days rental of Beep Mat @ \$70/day	770.00
	- 11 days rental of chain saw (Still 54) and brushcutter (Husky 165)@ \$45/day	495.00
	- Assaying 9 samples @ \$21.55 each ..	193.95
	- Fuel for vehicles, chain saw, brushcutter, camp stove.....	511.56
	- Postage, faxing, telephone, shipping of rock samples .....	236.18
	- Prospecting supplies, hardware ....	319.35
	- Report presentation, drafting, printing, office staff .....	355.00

TOTAL EXPENDITURES - GEORGE COPPER PROJECT ..... \$13,048.20

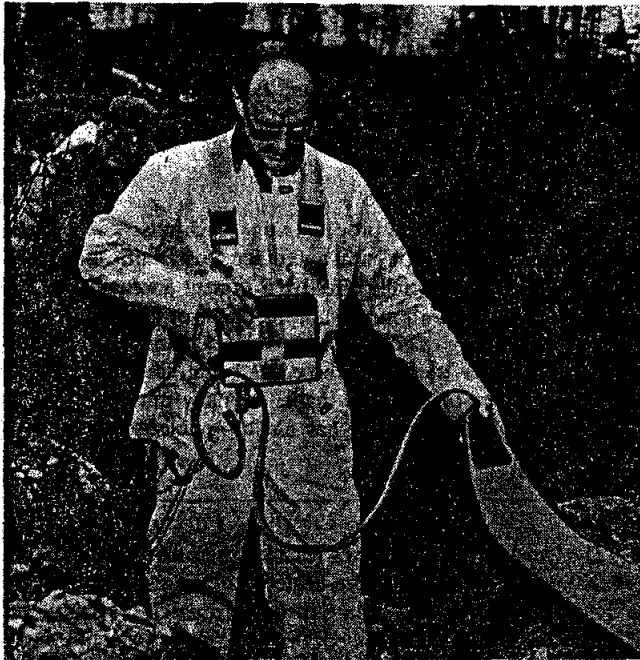
**APPENDIX**

**APPENDIX 'A' - Operating Techniques**

**APPENDIX 'B' - Map in Pocket**

**APPENDIX 'C' - Map in Pocket**

## Stop screening — start digging!



Although mineralization found on the Sildor outcrop contained only 2% to 3% sulphides, the Beep Mat could detect it.

### Description of the Instrument

The Beep Mat was created to detect conductive or magnetic outcrops or boulders hidden under up to five feet of overburden. This electromagnetic survey instrument consists of a uncoil inserted in a polyethylene shell and a separate readout module. A microprocessor analyzes and signals underlying conductors by an alarm and a digital display. Its limited depth of penetration is actually an advantage as it allows one to select the shallowest spots to dig, identify and sample hidden underlying conductors.

The 1990 model is 3 to 10 times more productive than previous models, thanks in part to its active electronic shield (patent pending) which increased markedly its penetration.

### Efficiency of Sulphide Detectors

In this period of recession and budget restrictions, it is more important than ever to optimize the efficiency of your exploration program. The Beep Mat may be your ally! In 1990, even with six corporate customers, there were often less than 10 Beep Mats in use on any one day. Yet, these few instruments allowed to localize, then dig or blast out, assay or examine over a thousand conductive sites! Each of these sites was underlain by a sulphide or graphitic bedrock conductor or boulder. In some areas, barren sulphides were the rule, in others, ore grade showings were uncovered.

From the size of the crews using Beep Mats, it is estimated that during the 1990 season, the cost of examining a conductive site averaged \$500, including assays. Of this amount, the expenditure for the Beep Mat was less than \$50. And yet, in 1990, Beep Mat allowed users to examine as many conductive sites (occurrences) as all the wildcat drill holes and trenches of all other exploration methods either in Ontario or Quebec, while spending only 2% to 3% of the budget of their competitors.

Even if a drill hole may discover ore under a barren surface sulphide conductor, the odds of discovering a mine are much better if one begins by drilling those conductors which are also ore-

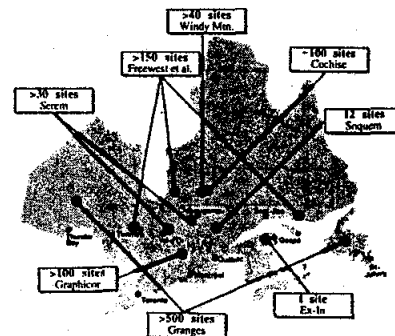
bearing on the surface. In Canada, there are millions of surface conductors that can be inexpensively sampled with a Beep Mat. Hundreds and even thousands of these probably occur and could be sampled and assayed with a modest budget.

### Examples of the 1990 Field Season

In northern Ontario, two crews working for Granges Inc. used three Beep Mats to locate anomalous sites identified by an airborne EM survey. These anomalies had been detailed by MaxMin on cut lines and their axes were traced out with the Beep Mat. Gaining experience with the instrument in this "gridded" area, surveying was extended along strike where claim lines were used as control and additional airborne EM anomalies were located, blasted and sampled. Considerable cost and time were saved and confidence

## STOP SCREENING - START DIGGING!

### 1990 BEEP MAT SAMPLING



### Successes of sulfide detectors herald the dawn of a new era in Canadian exploration

In 1975, Edwin Gaucher, Eng., Ph.D., published in the CIM Bulletin an article entitled Stop Screening - Start Drilling. Sixteen years later, as consultant and geophysical contractor, the author proposes an even more effective approach to exploration. As approximately a third of Canada is covered by shallow till (zero to 1.5 meters) overlying unaltered bedrock, a sulfide detector, such as the Beep Mat, allows to sample by digging tens and even hundreds of sulfide occurrences for the cost of a single drill hole. The purpose of the game is to find mines, not to screen anomalies, and the cheapest ones to find are near the surface. The Beep Mat is a return to traditional prospecting values which discovered most Canadian mining camps.

#### Getting information on the Beep Mat

If you need information or help with your Beep Mat surveys, contact GEOSIG INC., (418) 877-4249/659-3513, a service group headed by the author, or the following contractors who have successfully run Beep Mat surveys: Bedrock Consulting Inc., G.L. Geoservice Inc., Natives Exploration Services, Nord-Fort Enr., Norwin Geological Ltd. and W.E. Holmstead & Ass. Inc.

We hope to meet all interested parties before or at the Prospectors and Developers convention in Toronto, where we will have an exhibit in the Territories Room, booth 98. For all firm orders for Beep Mats (rental or purchase) received before March 30th, we will absorb the GST and any applicable provincial tax. Some detailed maps of case histories are available on request.

3700, boul. de la Chaudière  
Sainte-Foy (Québec) G1X 4B7  
Tel: (418) 877-4249.  
Fax: (418) 877-4054

**GDD** Instrumentation  
GDD Inc.

in the method was increased as a result of the large number of samples collected per airborne anomaly.

For Cochrane, in central Quebec, a crew of 14 geoscientists and helpers from Norwin Geological had to evaluate, in a one-month period, 59 airborne EM anomalies within a 935 km<sup>2</sup> property which had previously been covered by a 7600 line-km helicopter EM survey. Approximately 45 EM anomalies were evaluated using three VLF, eight Beep Mats, geological mapping, prospecting, trenching and sampling using shovels and dynamite. The Beep Mats contributed by identifying over 100 conductive sulphide occurrences mostly hidden by overburden in the vicinity of all the anomalies evaluated. In addition to checking the 45 EM airborne anomalies, the helicopter-supported crew from Norwin managed to prospect the extension of the favourable horizon previously drilled out by Windy Mountain with Beep Mats. Thus, a spectacular high-grade copper showing not detected by the airborne survey was discovered.

The six other Beep Mat users of last summer verbally reported that many conductive sites were discovered with several mineralized showings and favourable geological horizons such as exhalites. In two specific instances, the Beep Mat contributed to localize the bedrock source of two previously defined copper-rich float trains, one already drill-tested.

### Applications of the Beep Mat

Within 1.5 m from the surface, the instrument can easily detect most sub-surface massive sulphides and base metal graphite occurrences, either in bedrock or as floats. It can also help prospect for gold! It has detected shallow but hidden quartz veins containing minor sulphide veinlets, some of which did not even react to I.P. surveys, e.g. Beep Mat tests signaled conductors over the sub-outcrops of the Sillidor and New Pascalis mines. Samples of sulphide-rich veinlets from Doyon and Belmoral mines also reacted. Over porphyric-copper type mineralization, Beep Mats often detect sulphide veinlets.

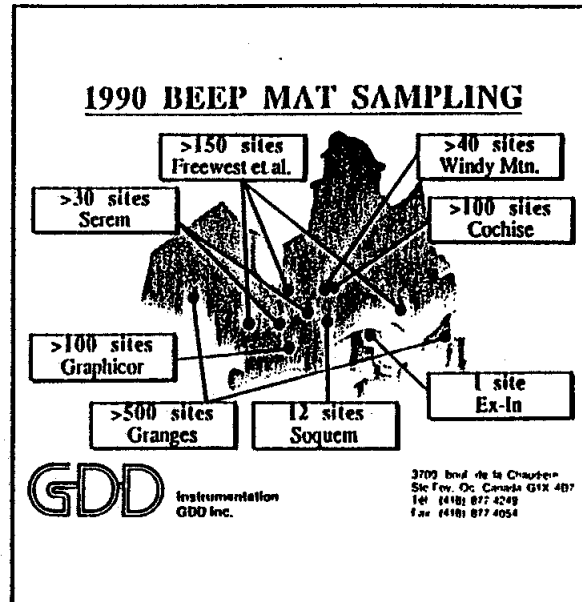
### Action Plan

Most companies have properties on which past surveys have indicated numerous geophysical and other geoscientific anomalies. Beep Mats can be especially effective if present anomaly compilations are combined with maps showing depth of overburden. It is possible to outline areas of shallow overburden and of till particularly favourable for Beep Mat prospecting by satellite imagery, aerial photography and topographic maps. In many mining areas, the Quebec Forestry Department has already published overburden depth maps.



# STOP SCREENING

# START DIGGING



***"Successes of sulphide detectors herald the dawn of a new era in Canadian Exploration"***

The BEEP MAT was created to efficiently and inexpensively detect conductive outcrops, magnetic outcrops or boulders hidden under, up to, five feet of overburden. This electromagnetic survey instrument consists of a unicoil inserted in a polyethylene shell and a separate readout module. A micro processor analyses and signals underlying conductors by an alarm and a digital display. Its limited depth of penetration is actually an advantage as it allows one to identify the shallowest spots to dig, identify, and sample hidden underlying conductors.

From the size of crews using BEEP MATS it is estimated that during the 1990 season, the cost of examining a conductive site averaged \$500.00 including assays. Of this amount, the expenditure for the BEEP MAT was less than \$50.00. In 1990 BEEP MAT allowed users to examine as many conductive occurrences as all

the wildcat drill holes and trenches of all other exploration methods in Ontario or Quebec while spending only 2% to 3% of the budget spent by competitors.

The new model used during 1990 was 3 to 10 times more productive than previous ones, partially because of its active electronic shield, which markedly increased penetration. The 1991 model will integrate even further improvements.

If you need information about or help with your BEEP MAT surveys contact GEOSIG INC (418) 877-4249/659-3513; or the following contractors who have successfully run BEEP MAT surveys: Bedrock Consulting Inc.; G.L. Geoservice Inc; Natives Exploration Services; Nord-Fort Enr; Norwin Geological Ltd; and W. E. Holmstead & Associates Inc.

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SERVICE



**3700 boul. de la Chaudière, Ste-Foy, Quebec G1X 4B7**  
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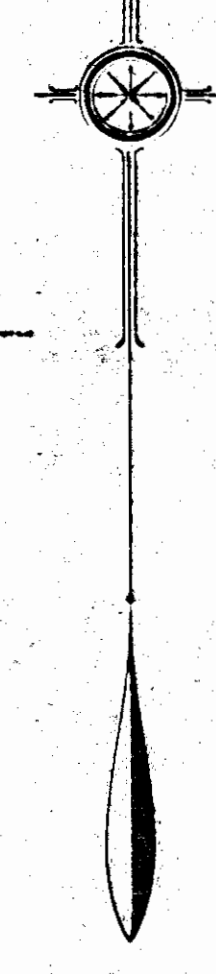
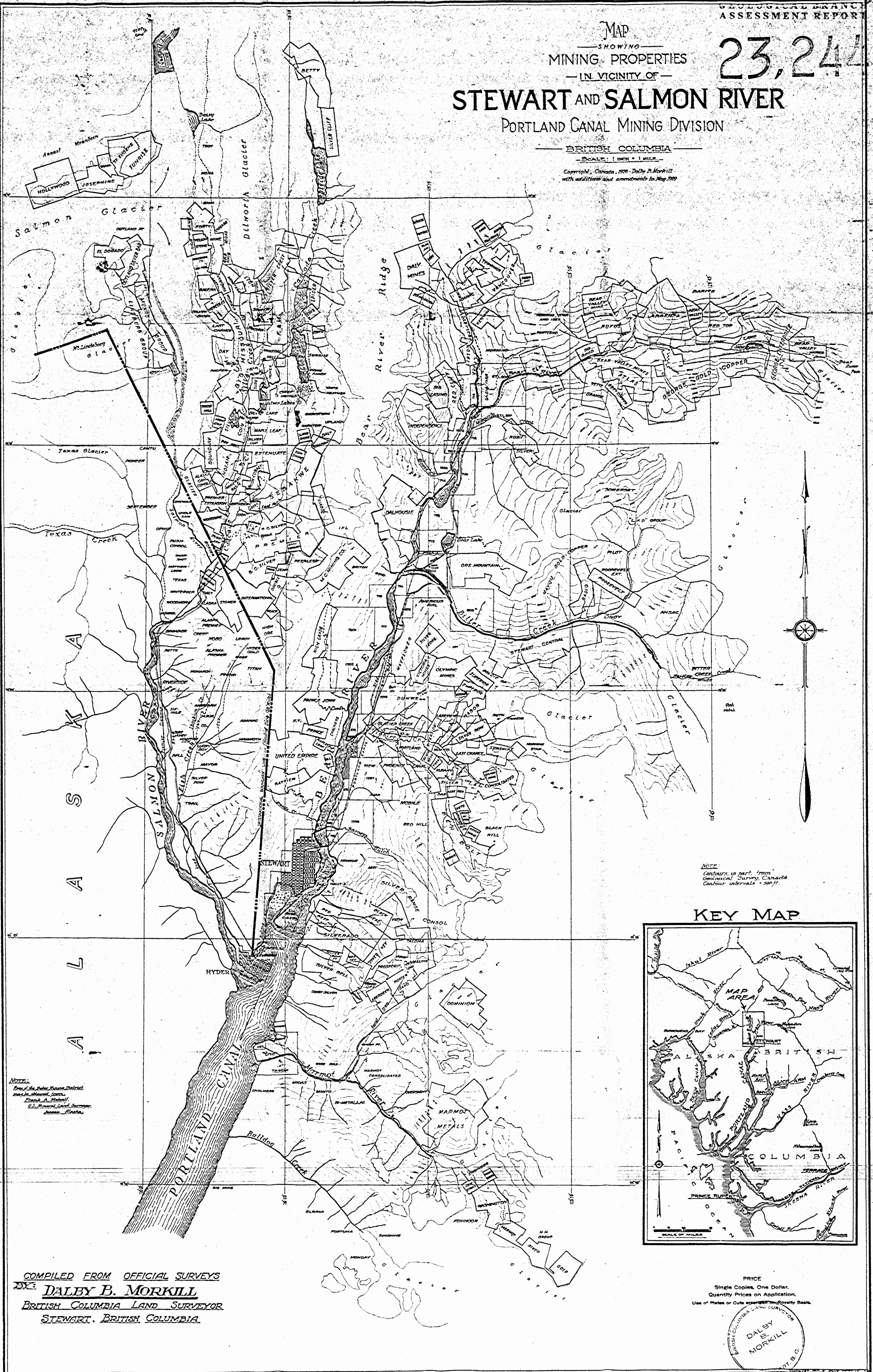
MAP  
— SHOWING —  
MINING PROPERTIES  
— IN VICINITY OF —  
**STEWART AND SALMON RIVER**  
PORTLAND CANAL MINING DIVISION

23,244

BRITISH COLUMBIA

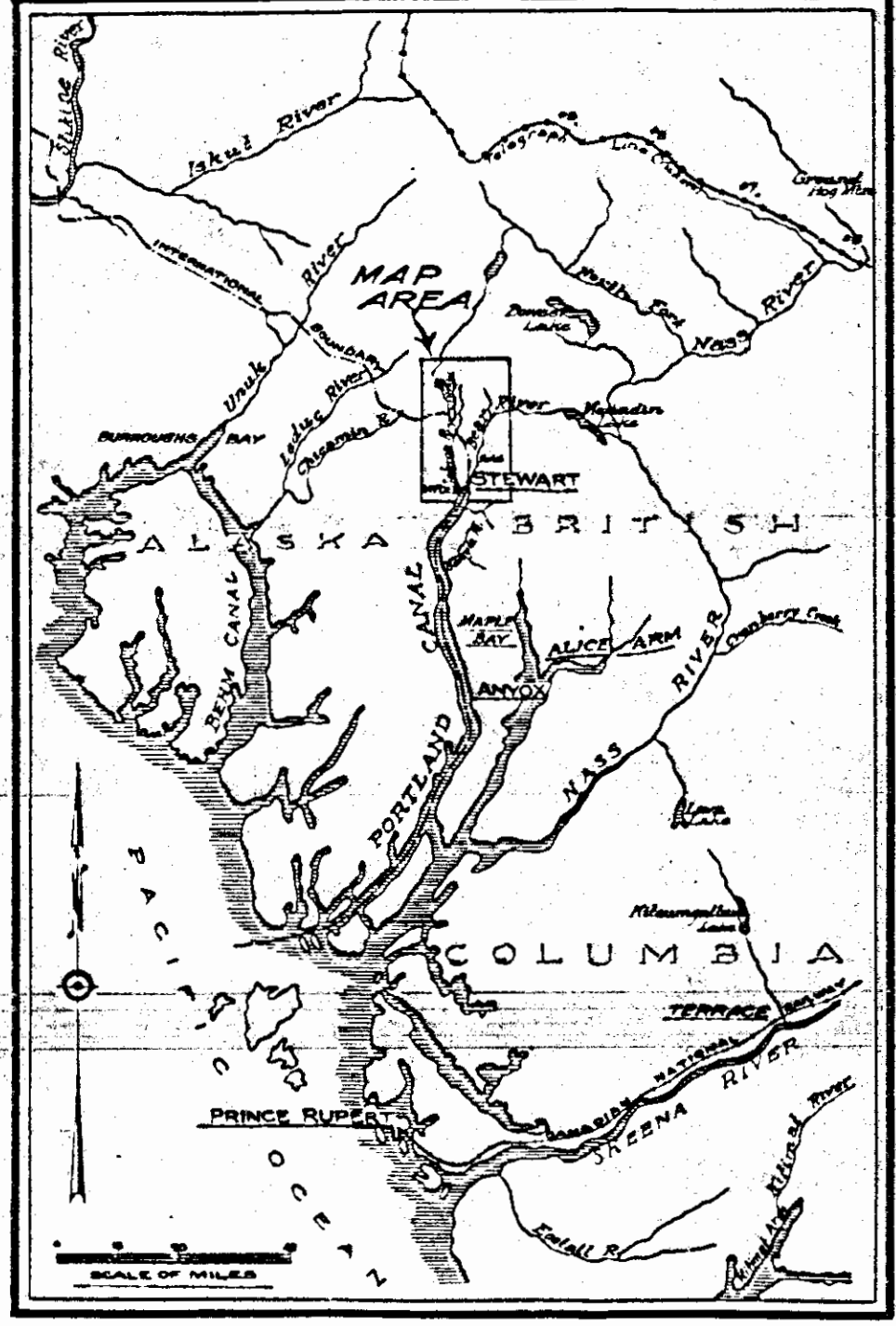
SCALE 1 INCH = 1 MILE

Copyright, Canada, 1908 - Dalby B. Morkill  
with additions and amendments to May 1912



NOTE:  
Contours in part from  
Geological Survey, Canada  
Contours intervals - 500 ft.

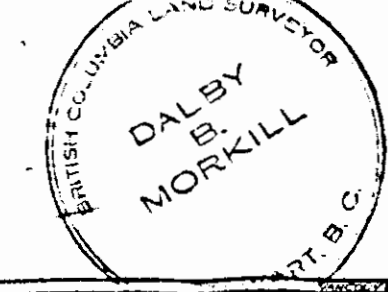
KEY MAP



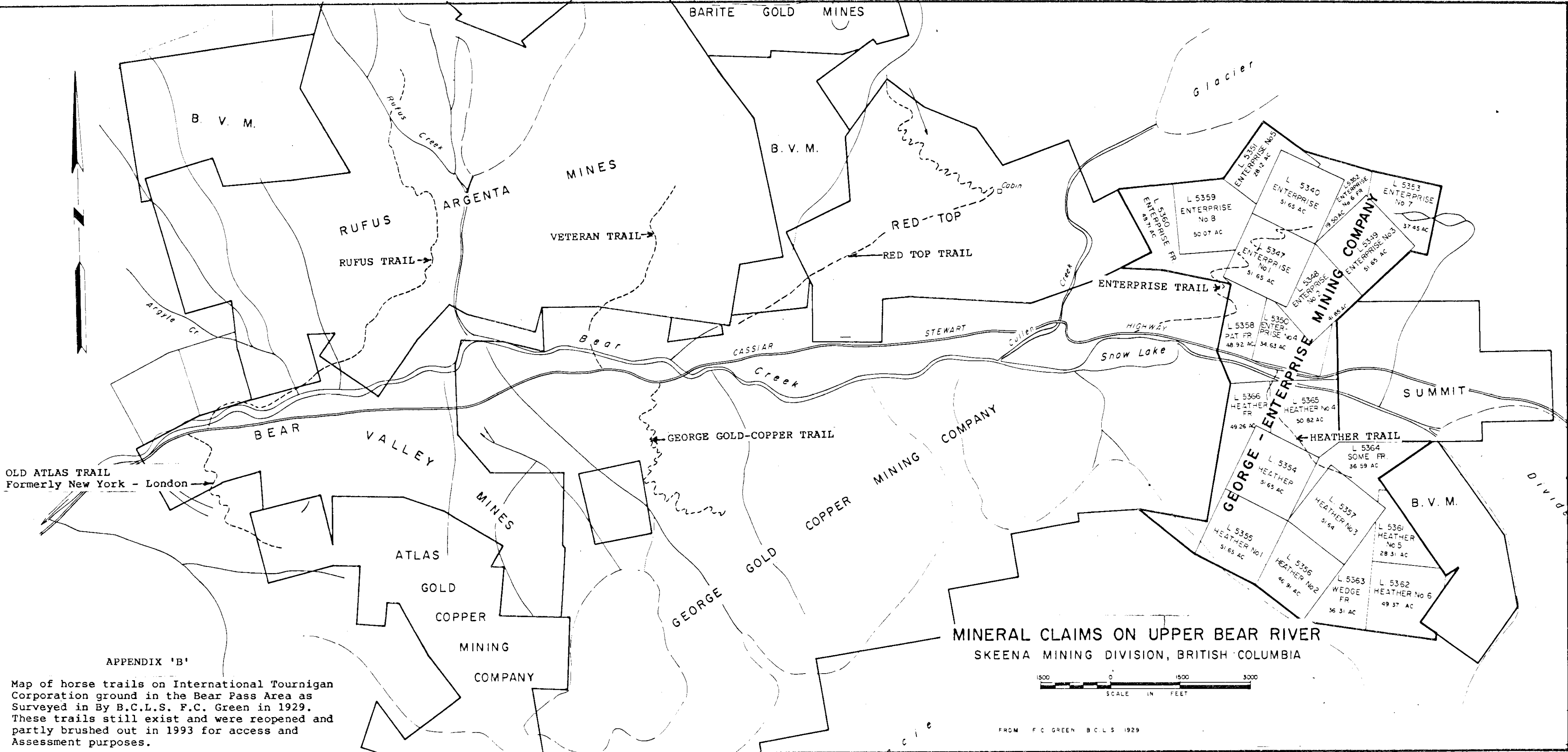
NOTE:  
Data from the Public Survey District  
of the Stewart, 1908.  
Frank A. Mearns,  
U.S. Mineral Land Surveyor  
James H. Hester

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BRITISH COLUMBIA LAND SURVEYOR  
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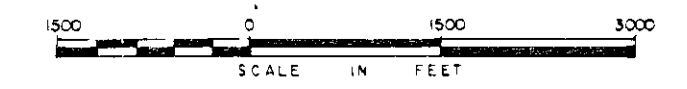




APPENDIX 'B'

Map of horse trails on International Tournigan Corporation ground in the Bear Pass Area as Surveyed in By B.C.L.S. F.C. Green in 1929. These trails still exist and were reopened and partly brushed out in 1993 for access and Assessment purposes.

MINERAL CLAIMS ON UPPER BEAR RIVER  
SKEENA MINING DIVISION, BRITISH COLUMBIA



FROM F.C. GREEN B.C.L.S. 1929