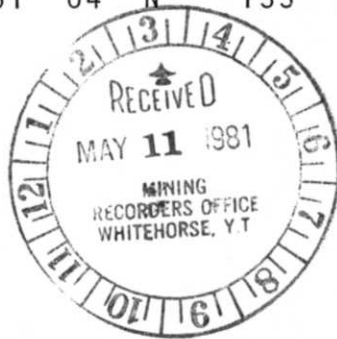


TIM CLAIM GROUP: SOIL GEOCHEMISTRY
WHITEHORSE MINING DIVISION

TIM 1 TO 20 (20 claims)

105F4

61° 04' N 133° 36' W



OWNER/OPERATOR:

Amoco Canada Petroleum Company Ltd.,
Mining Division,
656 - 409 Granville Street,
VANCOUVER, B.C.,
V6C 1T2.

090805

Report Written by:

Paul Brown,
February 10, 1981.

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

\$ 2272.00 76

R. Debiuki A. Roy Gied
Resident Geologist or
Resident Mining Engineer June 18, 1976

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

B. R. BAXTER

Supervising Mining Recorder

Commissioner of Yukon Territory

FROM Mining Recorder at Whitehorse

Supervising Mining Recorder at Whitehorse, Y.T.

FOR ACTION ARE:

NEW APPL'N for PLACER LEASE to PROSPECT: Name:

RENEWAL APPL'N PLACER LEASE to PROSPECT: Name:

Lease No

AFFIDAVIT of EXPENDITURE on PLACER LEASE. Name.

Lease No

ASSIGNMENT of PLACER LEASE No.

From:

To:

GROUPING APPL'N UNDER SEC. 52(2) PLACER MINING ACT.

Owner.

DIAMOND DRILL LOGS:

Claims.

Claim sheet no:

QUARTZ ASSESSMENT REPORT.

Claims: TIM 1-20

Claim sheet no. 105-F-4

Type of report:

SOIL GEOCHEMISTRY

Submitted by:

AMOCO CANADA PETROLEUM Co., Ltd

Cls. work performed on:

TIM 1-20

\$ Req. for ren. application

\$2272.76

Signature

12 May 81

REPLY ACTION.

Date Ret.

Signature

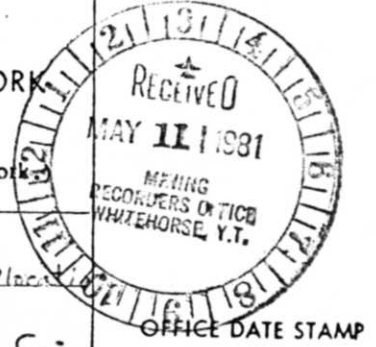




Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work)



I (Name) PAUL BROWN Occupation Amoco Canada Petroleum Co. Ltd Mineral Exploration
(Postal Address) 656 - 409 GRANVILLE ST. VANCOUVER, B.C.

MAKE OATH AND SAY, THAT:-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.
2. I have done, or caused to be done, work on the following mineral claim(s):
(Here list claims on which work was actually done by number and name)

TIM 1 TIM 4 TIM 7 TIM 10
TIM 2 TIM 5 TIM 8
TIM 3 TIM 6 TIM 9

situated at 61° 04' N 133° 36' W Claim Sheet No. 105 F - 4

in the Whitehorse Mining District, to the value of at least \$ 1136-95

dollars, since the 2nd day of August 1980.

to represent the following mineral claims under the authority of Grouping Certificate No. 88600
(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested). 1 yr lock

YA 51105 <u>2 Aug 81</u> TIM 1 ;	YA 51110	TIM 6
YA 51106 ✓ TIM 2 ;	YA 51111	TIM 7
YA 51107 ✓ TIM 3 ;	YA 51112	TIM 8 <u>12 Aug 81</u>
YA 51108 ✓ TIM 4 ;	YA 51113	TIM 9
YA 51109 ✓ TIM 5 ;	YA 51114	TIM 10

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

the dates August 4th, 6th and 9th 1980.
A soil geochemical survey conducted on

Sworn before me at Whitehorse
this 11 day of May 1981
J. Southwick
Notary Public

Paul Brown
Applicant.



Department of Indian Affairs and Northern Development
YUKON QUARTZ MINING ACT

FORM "C" - APPLICATION FOR A CERTIFICATE OF WORK

(This form required in duplicate with sketch showing location of work.)



OFFICE DATE STAMP

I (Name)	PAUL BROWN	Occupation	Mineral Exploration
(Postal Address)	Amoco Canada Petroleum Co. Ltd. 656-409 Granville St. Vancouver, B.C.		

MAKE OATH AND SAY, THAT:-

1. I am the owner, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I have done, or caused to be done, work on the following mineral claim(s):

(Here list claims on which work was actually done by number and name)

TIM 11 TIM 14 TIM 17 TIM 20
TIM 12 TIM 15 TIM 18
TIM 13 TIM 16 TIM 19

situated at 61° 04' N ; 133° 36' W Claim Sheet No. 105 F - 4

in the Whitehorse Mining District, to the value of at least \$ 1135.25

dollars, since the 2nd day of August 19 80.

to represent the following mineral claims under the authority of Grouping Certificate No. 88610

(Here list claims to be renewed in numerical order, by grant number and claim name, showing renewal period requested).

YA 51115 TIM 11 ; YA 51120 TIM 16
YA 51116 TIM 12 ; YA 51121 TIM 17
YA 51117 TIM 13 ; YA 51122 TIM 18
YA 51118 TIM 14 ; YA 51123 TIM 19
YA 51119 TIM 15 ; YA 51124 TIM 20

12 Aug 81

3. The following is a detailed statement of such work: (Set out full particulars of the work done indicating dates work commenced and ended in the twelve months in which such work is required to be done as shown by Section 53.)

A soil survey conducted on the dates August 4th, 6th and 9th 1980.

Sworn before me at Whitehorse

this 11 day of May 19 81

H Southwick
Notary Public

Paul Brown
Applicant.

T A B L E O F C O N T E N T S

INTRODUCTION.....1
NAME OF CLAIMS AND TAG NUMBERS.....3
GEOLOGY.....4
SOIL GEOCHEMISTRY.....5
 Introduction
 Interpretation
 Conclusions and Recommendations
SURVEY COST.....7
APPORTIONMENT OF EXPENSES.....8

FIGURES

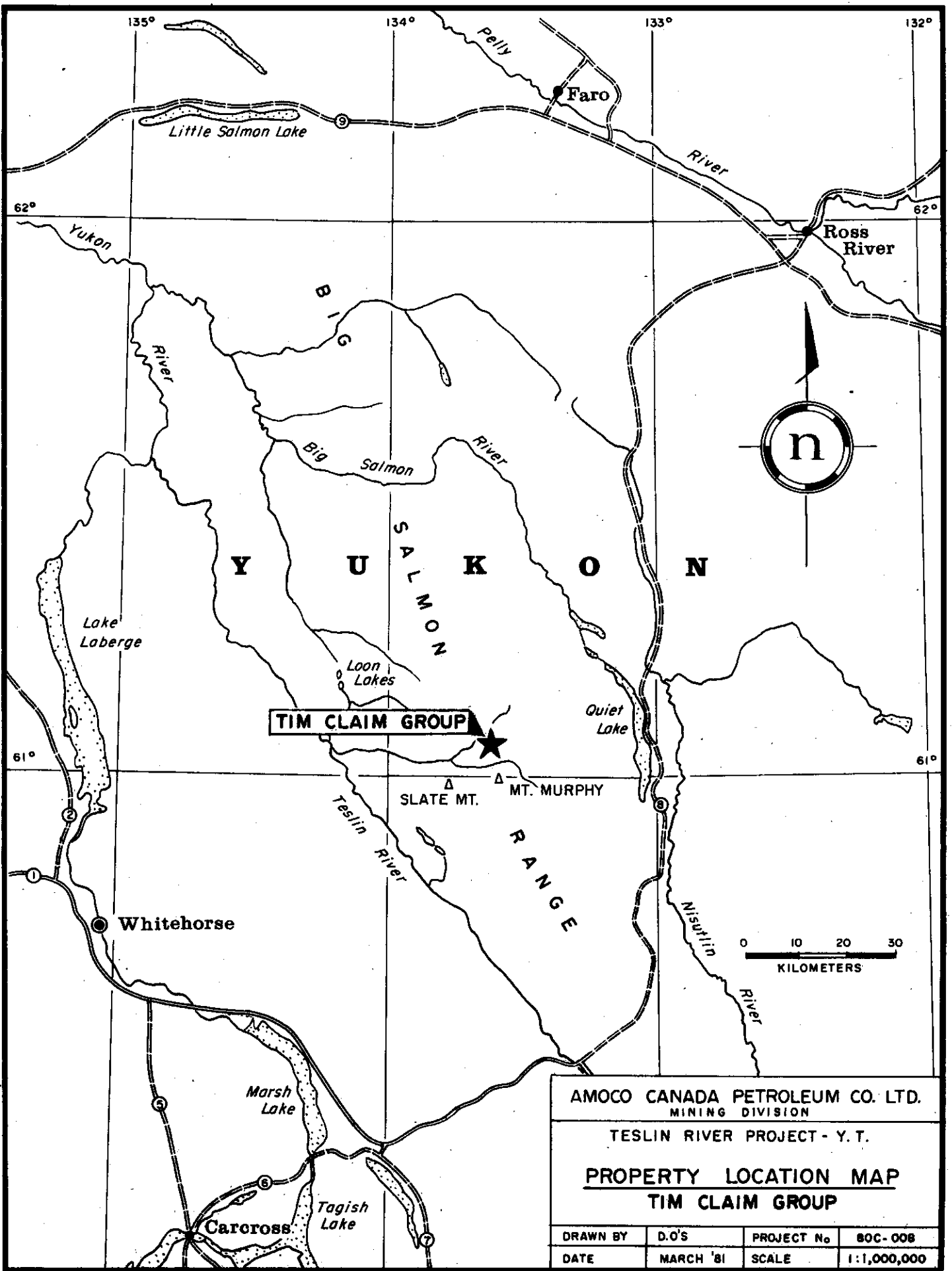
Property Location Map
Claim Sketch Map
Claim Sketch Map with Grid

MAPS

Soil Geochemistry Sample Location Map
Soil Geochemistry Sample Results (Contoured)

LIST OF APPENDICES

I Fee Schedule
II Procedure for Geochemical Analysis
III Names and Addresses of People Conducting Work
IV Unit Cost per hour for Helicopter
V Qualifications of Paul Brown



TIM CLAIM GROUP

AMOCO CANADA PETROLEUM CO. LTD.
 MINING DIVISION
 TESLIN RIVER PROJECT - Y. T.
PROPERTY LOCATION MAP
TIM CLAIM GROUP

DRAWN BY	D.O'S	PROJECT No.	SOC-008
DATE	MARCH '81	SCALE	1:1,000,000

INTRODUCTION

During the 1980 field season Amoco Canada Petroleum Company Ltd. (Mining Division) conducted a reconnaissance stream sediment sampling and prospecting program covering the western portion of the Big Salmon Range in south central Yukon. The primary objective of the program was to locate porphyry molybdenum mineralization.

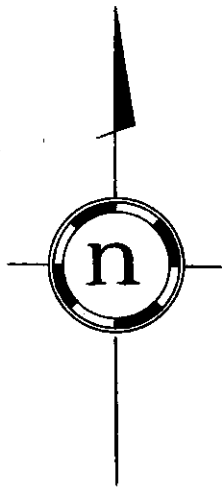
A base camp was established on the southeast shore of North Loon Lake, $61^{\circ} 11'N$, $134^{\circ} 12'W$ and was serviced by fixed wing, float equipped Otter and Beaver type aircraft from Whitehorse, approximately 44 air miles to the southwest. Access to the project area from the base camp was by helicopter.

The TIM Claim Group consists of 20 contiguous claims staked on August 1st, 1980. The claim group is located 12 kms. northeast of Slate Mountain, at $61^{\circ} 04' N$, $133^{\circ} 36' W$. The claim group is only accessible by helicopter and has a relief of 500 m.

The TIM Claim Group is underlain by coarse-grained intrusive rocks of the Quiet Lake Batholith. These igneous rocks consist of coarse grained brown to gray biotite rich monzonite to granodiorite, which are host to a number of quartz-biotite schist inclusions.

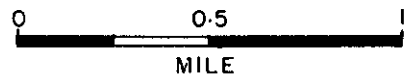
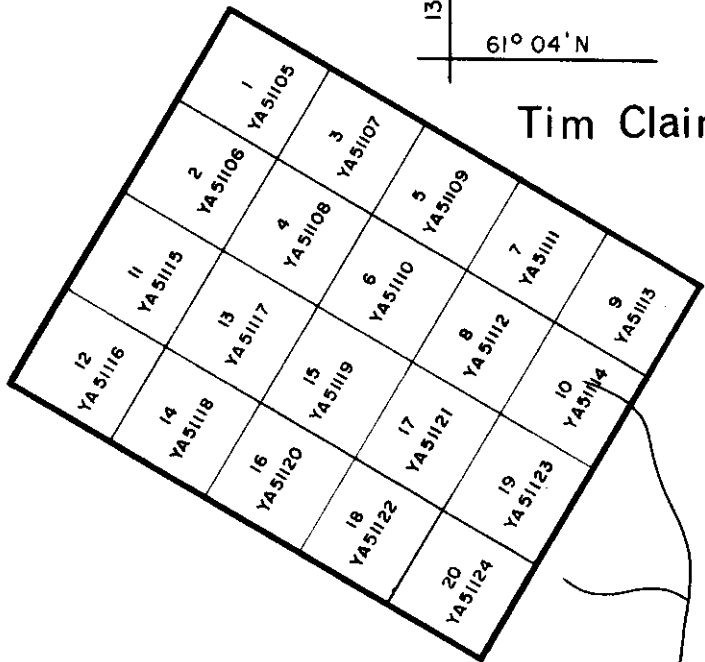
Results of reconnaissance stream sediment sampling conducted in the area indicated two streams to be anomalous

in molybdenum. The anomalous area was staked as the TIM 1 to 20 claims on August 1st, 1980 for Amoco Canada Petroleum Co. Ltd. A soil sampling program performed on the TIM Claim Group was completed from the base camp on North Loon Lake.



133° 36' W
61° 04' N

Tim Claim Group



Boswell River

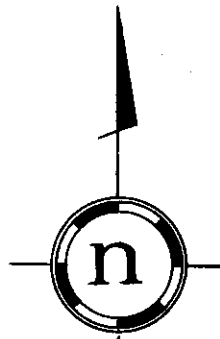
AMOCO CANADA PETROLEUM CO. LTD. MINING DIVISION			
TESLIN RIVER PROJECT - Y.T.			
<u>TIM CLAIM GROUP LOCATION MAP</u>			
DRAWN BY	D.O'S	PROJECT No	80C-008
DATE	MARCH '81	SCALE	J: 31,680

TIM CLAIM GROUP

CLAIM	TAG NUMBER
TIM 1	YA 51105
TIM 2	YA 51106
TIM 3	YA 51107
TIM 4	YA 51108
TIM 5	YA 51109
TIM 6	YA 51110
TIM 7	YA 51111
TIM 8	YA 51112
TIM 9	YA 51113
TIM 10	YA 51114
TIM 11	YA 51115
TIM 12	YA 51116
TIM 13	YA 51117
TIM 14	YA 51118
TIM 15	YA 51119
TIM 16	YA 51120
TIM 17	YA 51121
TIM 18	YA 51122
TIM 19	YA 51123
TIM 20	YA 51124

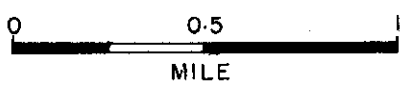
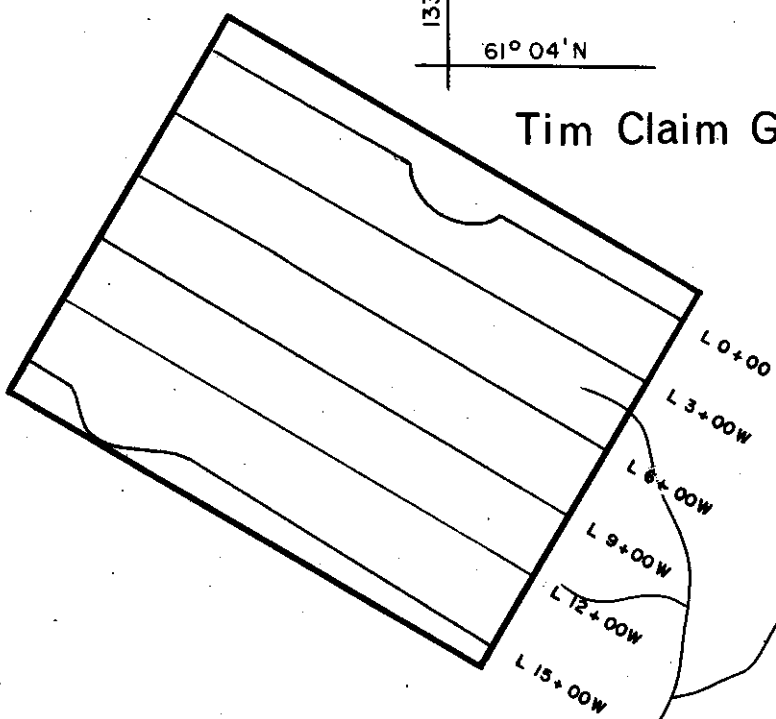
GEOLOGY

The TIM Claim Group is underlain by the Quiet Lake Batholith, near its southwestern edge. The Quiet Lake Batholith, located west and northwest of Quiet Lake is a northwest trending body 40 miles long by 20 miles wide. The Batholith intrudes Palaeozoic ? Yukon Group sedimentary schists and gneisses and has been dated by K-Ar methods at 83.2 million years. This intrusion is predominately coarse-grained to porphyritic granite with a gnessic border phase. Rocks underlying the claim group are medium to coarse-grained biotite rich monzonite to granodiorite. Within the south and western portions of the claim group there are numerous rafted blocks and inclusions of quartz-biotite schist. These inclusions are often several 10's of meters in length and have strong iron oxide staining. Up to 2-3% pyrite was noted on the property in quartz-mica schist boulders at the base of a gossaniferous cliff, however, no economic sulphide mineralization was noted.



133° 36' W
61° 04' N

Tim Claim Group



Boswell River

AMOCO CANADA PETROLEUM CO. LTD. MINING DIVISION			
TESLIN RIVER PROJECT - Y.T.			
TIM CLAIM GROUP WITH SOIL GRID			
DRAWN BY	D.O'S	PROJECT No	80C-008
DATE	MARCH '81	SCALE	1: 31, 680

SOIL GEOCHEMISTRY

Introduction:

On the days August 4th, 6th and 9th, 1980, a total of 7 man-days were spent collecting soil samples on a grid covering the TIM Claim Group.

A chained and flagged baseline was established along the northwest boundary of the claim group; claims YA 51105, YA 51106, YA 51115 and YA 51116. Six pace and compass traverses at 120° were conducted from this baseline to the southeast boundary of the claim group. Traverse lines were spaced at 300m intervals and soil samples were collected every 61 m (200') along each traverse line. A total of 216 soil samples were collected.

Soil samples were collected from depths of 5 cms. to 20 cms. with a mattock and stored in Kraft paper bags. The B horizon was sampled when recognized, otherwise the soil beneath the zone of humus and vegetation was taken.

The minus 80 mesh fraction of all samples was analyzed for Mo, Cu, Pb and Zn. Every 3rd sample was also analyzed for tungsten. All analysis were done by Min-En Laboratories of North Vancouver, B.C.

Interpretation:

A weak to moderate molybdenum soil anomaly is outlined at the base of a northeast-southwest trending cliff, on claims YA 51110, YA 51119 and YA 51120. The length of the anomaly is 1000 m and its width varies from 50 m to 300 m. Molybdenum values range from 39 to 98 ppm, while background values are 2 to 7 ppm. Three weak anomalies occur in the vicinity of the common corner of claims YA 51115, YA 51116, YA 51117 and YA 51118. These anomalies are limited in their extent and do not appear to be very significant.

Conclusions and Recommendations:

It appears the molybdenum anomaly is associated with pyrite in quartz mica schist and biotite rich granodiorite at the base of a northeast-southwest trending cliff. The portion of the claim group covering the anomaly should be soil and rock chip sampled in detail to fully outline the anomaly. A baseline at 30⁰ should be established over the anomaly, with pace and compass traverses conducted at 125m intervals from the baseline, and soil samples collected every 61 m (200') along the traverse lines.

SURVEY COST

Assay Charges:

A total of 216 soil samples were collected on claims YA 51105 to YA 51124 and analyzed for Mo, Cu, Pb, Zn @ \$4.60/sample.

72 of the above mentioned samples were also analyzed for tungsten @ \$3.75/sample

216 samples @ \$4.60/sample	=	\$993.60
72 samples @ \$3.75/sample	=	270.00
		<hr/>
Total Assay Charges	=	<u>\$1,263.60</u>

Salaries:

Paul Brown	1 man-day @ \$65.80/day	= \$	65.80
Jim Cuttle	2 man-days @ \$57.40/day	=	114.80
Bryon Mills	2 man-days @ \$34.26/day	=	68.52
Tim Canam	2 man-days @ \$45.37/day	=	90.74
			<hr/>
Total Salaries		\$	<u>339.86</u>

Meals:	7 man-days @ \$12.00/day	= \$	84.00
Transportation:	Helicopter 0.8 hrs @ \$356/hr	= \$	284.80
Cost of Report Preparation:		= \$	300.00
			<hr/>
TOTAL			<u>\$2,272.26</u>

APPORTIONMENT OF EXPENSES

The total cost of the survey \$2,272.26 is to be distributed over the twenty claims as indicated below:

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>ASSAY COST</u>	<u>COST OTHER THAN ASSAYS</u>	<u>TOTAL COST APPLICABLE</u>
TIM 1	YA 51105	\$79.40	\$50.43	\$129.83
2	51106	48.05		98.48
3	51107	83.15		133.58
4	51108	39.70		90.13
5	51109	79.40		129.83
6	51110	22.15		72.58
7	51111	96.10		146.53
" 8	" 51112	48.05	"	98.48
9	51113	88.60		139.03
10	51114	48.05		98.48
11	51115	99.85		150.28
12	51116	44.30		94.73
" 13	" 51117	79.40	"	129.83
14	51118	39.70		90.13
15	51119	61.00		111.43
16	51120	48.05		98.48
17	51121	87.75		138.18
18	51122	39.70		90.13
19	51123	87.75		138.18
" 20	" 51124	43.45	"	93.88

APPENDIX I

Fee Schedule

Geochemical analyses were done by:

Min-En Laboratories Ltd.
705 West 15th Street,
North Vancouver, B.C.
V7M 1T2.

Geochemical analyses:

Mo, Cu, Pb, Zn	\$4.00/sample
Sample preparation	<u>\$0.60/sample</u>
	\$4.60/sample
Tungsten	\$3.75/sample

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke

705 WEST 15th STREET

NORTH VANCOUVER, B.C.

CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURES FOR: Cu, Mo, Cd, Pb, Mn, Ni, Ag, Zn

Samples are processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and HClO_4 mixture.

After cooling the samples are diluted to standard volume. The solutions are analysed by Atomic Absorption Spectrophotometers.

Copper, Lead, Zinc, Silver, Cadmium, Cobalt, Nickel and Manganese are analysed using the CH_2H_2 -Air Flame combination but the Molybdenum determination is carried out by C_2H_2 - N_2O gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

Background corrections for Pb, Ag, Cd upon request are completed.

APPENDIX II

MIN-EN Laboratories Ltd.

Specialists in Mineral Environments

Corner 15th Street and Bewicke
705 WEST 15TH STREET
NORTH VANCOUVER, B.C.
CANADA V7M 1T2

ANALYTICAL PROCEDURE FOR ASSESSMENT WORK
PROCEDURE FOR: TUNGSTEN

0.5 gram of prepared samples are weighed into nickel crucibles and fluxed with 1:4 times with carbonate flux in a temperature controlled furnace.

Samples than are dissolved and suitable aliquots are taken for colorimetric procedures.

The interferring elements are reduced from the solutions by a 10% SnCl_2 solution before the test is carried out by the Zinc Dithol reagent.

The coloured complex is extracted with Kerosene oil to obtain pure and more easily discriminated blue color.

Samples are measured against a suitable suit of standards which are carried through the same manner as the samples.

APPENDIX III

Names and Addresses of Persons Conducting Work

Paul Brown,
1504 - 2170 Sherobee Rd.,
Mississauga, Ontario,
L5A 3P8.

Jim Cuttle,
656 - 409 Granville St.,
Vancouver, B.C.
V6C 1T2.

Bryan Mills,
420 Alberta St.,
New Westminster, B.C.,
V3L 3J7.

Tim Canam,
P. O. Box 569,
Pictou, Pictou County, N.S.,
B0K 1H0.

APPENDIX IV

Cost per hour for Helicopter, 1980:

Bell 206B, Contract Rate, Shirley Helicopters,
Whitehorse, Yukon

Contract Rate	\$325.00/hr.
Fuel and Oil cost	<u>\$ 31.00/hr.</u>
Total	<u>\$356.00/hr.</u>

APPENDIX V

Qualifications of Paul Brown:

B.Sc. Geology, Memorial University of Newfoundland, 1974

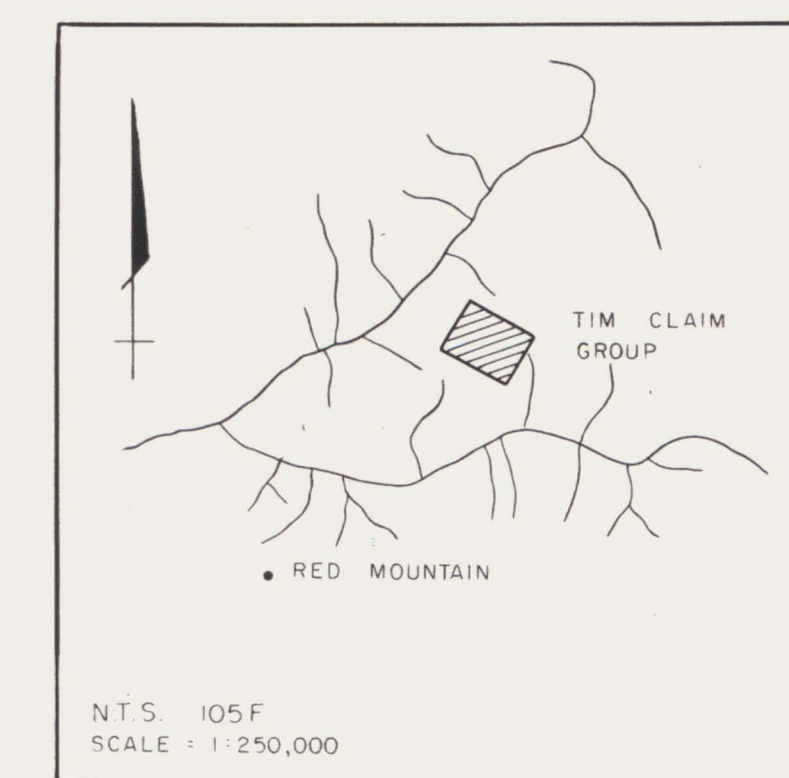
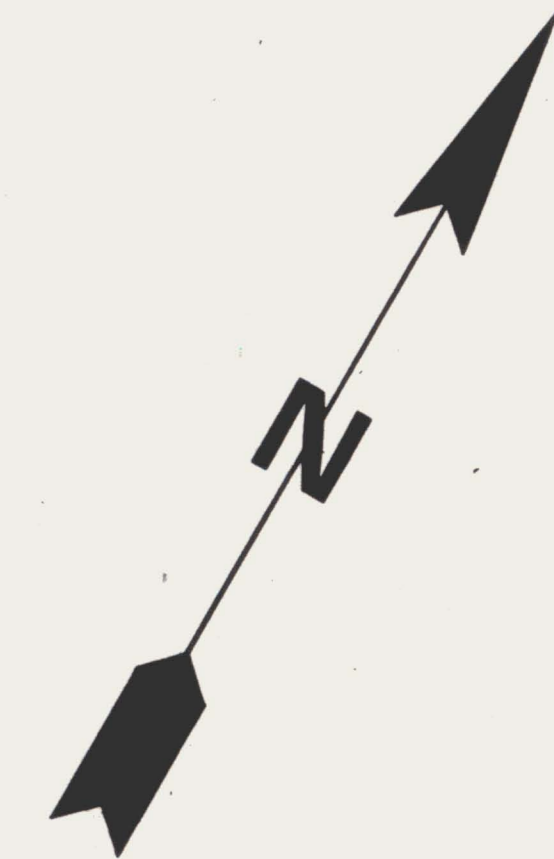
Continuously employed in the mineral exploration industry since graduation and with Amoco Canada Petroleum Company Ltd. since April, 1975.

Member of the Geological Association of Canada and the Canadian Institute of Mining and Metallurgy.

Toronto, Ontario
February 10, 1981

A handwritten signature in cursive script that reads "Paul Brown". The signature is written in dark ink and is positioned above a horizontal line.

Paul Brown, B.Sc.



LEGEND

-  SOIL SAMPLE LOCATION AND NUMBER
-  CLAIM POST



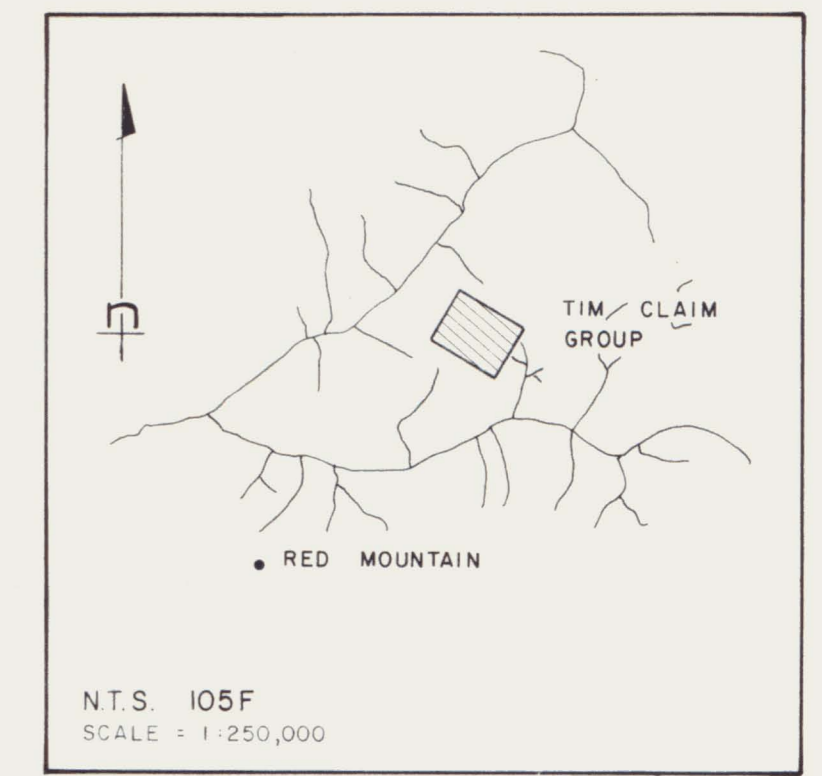
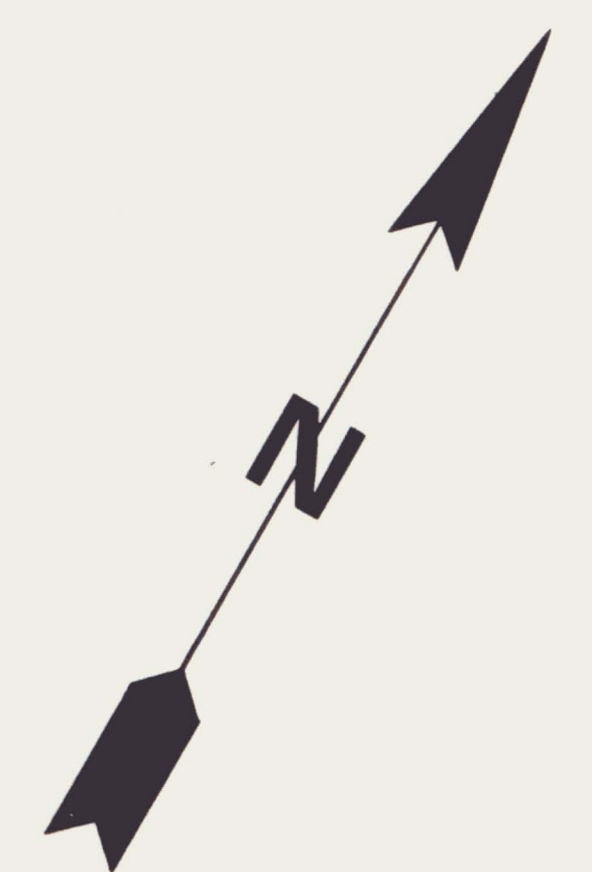
AMOCO CANADA PETROLEUM CO. LTD.



MINING DIVISION

TESLIN PROJECT
TIM CLAIM GROUP
SAMPLE LOCATION MAP

Drawn By	d.s./s.e.t.	Scale	1 : 5,000
Date	January 1981	Project No.	80C-008

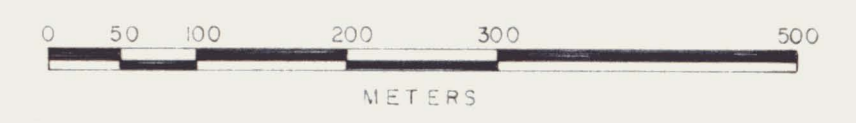


Mo RESULTS

- ≥ 20 ppm
- ≥ 50 ppm

LEGEND

- SOIL SAMPLE RESULTS
- 30, 50, 20, 130
- Mo, Cu, Pb, Zn, WO₃ (ppm)
- CLAIM POST



AMOCO CANADA PETROLEUM CO. LTD.



MINING DIVISION

TESLIN PROJECT TIM CLAIM GROUP GEOCHEMISTRY RESULTS

Mo, Cu, Pb, Zn, WO₃ (ppm)

Drawn By	m. j. jamaedj	Scale	1:5,000
Date	October 1980	Project No.	80C-008