



THOR EXPLORATIONS LTD.

GEOLOGICAL AND GEOCHEMICAL REPORT

on the

TET MINERAL CLAIMS

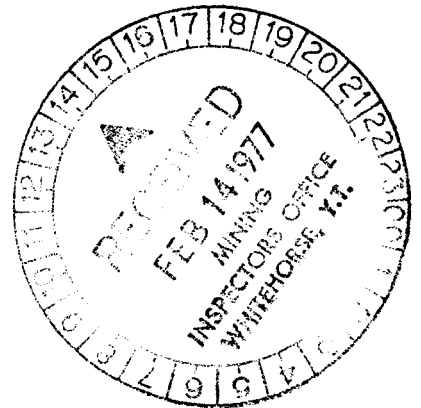
N.T.S. 106-E-1

65°05'N 134°30'W

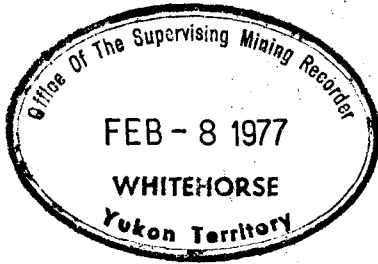
December, 1976

by

D. Yeager - Geologist
C. K. Ikona - P. Eng.



09070



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 \$ 5400.00

W. Sinclair

Resident Geologist or
~~Resident Mining Engineer~~

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

[Signature]
Commissioner of Yukon Territory

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INTRODUCTION

The TET mineral claims were staked in January, 1976 by Andrew Harman to cover geologic units in the Quartet Lakes region favourable to copper and uranium mineralization. The ground was subsequently acquired by Thor Explorations Ltd.

In July, 1976, a Harman Management Ltd. work party, while carrying out prospecting and geologic work on adjoining claims, discovered copper mineralization in outcrop and float within the TET boundaries. During the period August 20 to September 13, 1976, a preliminary prospecting, geochemical, and geologic investigation of the ground was carried out by Donegal Developments Ltd. and Harman Management Ltd.

LIST OF CLAIMS

<u>Claim Name</u>	<u>Recording Date</u>	<u>Tag Number</u>
TET 1-54	February 3, 1976	YA1492-YA1545

LOCATION AND ACCESS

The TET claims are located in the Mayo Mining District at 65°05'N. latitude and 134°30' W. longitude on N.T.S. 106-E-1.

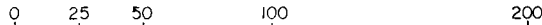
Access to the property is by float equipped aircraft from the town of Mayo, Y.T. to Quartet Lakes, a distance of 115 miles. Both helicopter and fixed wing aircraft as well as full expediting services are available in Mayo.

THOR EXPLORATIONS LTD.

YUKON LOCATION MAP

TET CLAIMS QUARTET LAKES AREA YUKON TERRITORY

SCALE IN MILES

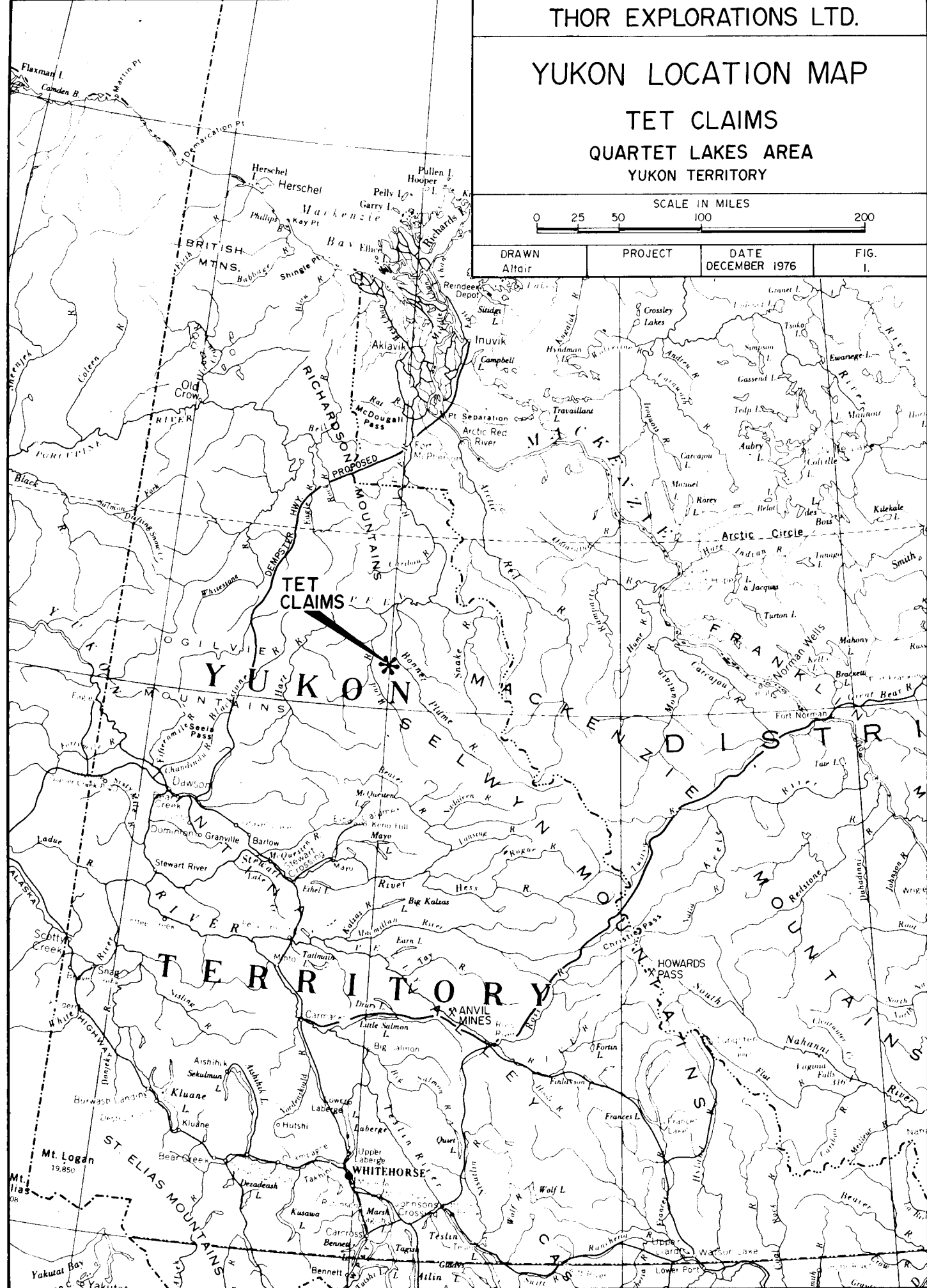


DRAWN
Altair

PROJECT

DATE
DECEMBER 1976

FIG.
I.



From Quartet Lakes it is approximately 3 miles south to the property. This distance can easily be covered on foot in two hours, however, helicopter support from Quartet Lakes is necessary to establish a camp within the claims area.

REGIONAL GEOLOGY

The Quartet Lakes region lies in the Wernecke Mountains of the north eastern Yukon Territory. In the general area, the Werneckes consist of local ranges which include the Rackla Range, Bonnet Plume Range and Knorr Range. Topography is normally moderate to rugged with elevations ranging from 2,000 to 6,500 feet. The major river valleys are broad, timbered and extensively overburden covered, while most mountain slopes present greater than 60% outcrop above the 4,000 foot level.

The entire area has been mapped by the Geological Survey of Canada and three separate publications are presented. The following memoir and open file reports give 1" = 4 miles geological coverage of the Nash Creek, Nadaleen River, Wind River and Snake River map areas.

- (1) Geology of Nash Creek, Larsen Creek and Dawson Map-Area, Yukon Territory by L.H. Green 1972 (Memoir 364).
- (2) Open File 205 (Geology of Nadaleen River and Bonnet Plume Lake Map sheets by S. Blusson) 1975.

(3) Open File 279 (Geology of Snake River and Wind River sheets by D.K. Norris) 1975.

In the Quartet-Fairchild-Gillespie Lakes region Helikian rocks are exposed over an area of some 1,500 square miles in a roughly circular fashion centered near Longitude 134°00'W and Latitude 65°00'N.

These rocks, which represent early deposition in the northern portion of the Selwyn Basin or Richardson Trough, have been described as Units 1 & 2 by L. Green on the Nash Creek Sheet.

Unit 1 is composed of a thick succession of moderately metamorphosed slates, argillites, phyllites and quartzites with interbedded dolomites. The lowest subdivision of Unit 1, whose base is not exposed, consists of chloritic-schists and calc-silicates all probably of volcanic origin.

Unit 2, which conformably overlies the uppermost slate-quartzite section of Unit 1, consists mainly of thickly bedded orange weathering dolomites. The base of the Unit is marked by a series of transitional beds of alternating buff weathering dolomites and interbedded slates and quartzites.

Erratically distributed throughout the Proterozoic metasediments are irregularly shaped breccia bodies. The breccia zones vary from tens of feet to several thousand feet in

size and appear as cross cutting pipe-like features at all levels in the stratigraphic column. Several varieties exist, but all exhibit an assortment of angular clasts derived from rock types common to the area. Hornfels margins observed at several localities indicate an intrusive origin.

A common association with many of the breccia bodies are zones of veining or locally pervasive feldspar alteration seen as internal features within the breccias or in host rocks adjacent to them.

The alteration zones are pink in colour due to either K-spar or strong hematization and in some instances contain varying amounts of specularite, chalcopyrite and minor uranium mineralization.

STRUCTURE

Two major periods of deformation have taken place within the Wernecke Mountain region. During the first period or Racklan Orogeny, the Proterozoic rocks of Units 1 and 2 underwent intense folding and faulting. Folds are tight to isoclinal with the development of strong axial plane cleavage and commonly an almost vertical foliation.

A major unconformity of Lower Hadrynian age forms the upper contact of Unit 2. In many localities, erosion beneath this unconformity has resulted in the complete removal of Unit 2 and the strong angular relationship between the

relatively flat lying Cambrian and younger rocks directly overlying Unit 1 is apparent.

Further unconformities near the Upper Hadrynian, Lower Cambrian and Upper Cambrian margins leave Devonian carbonates directly over the Helikian section.

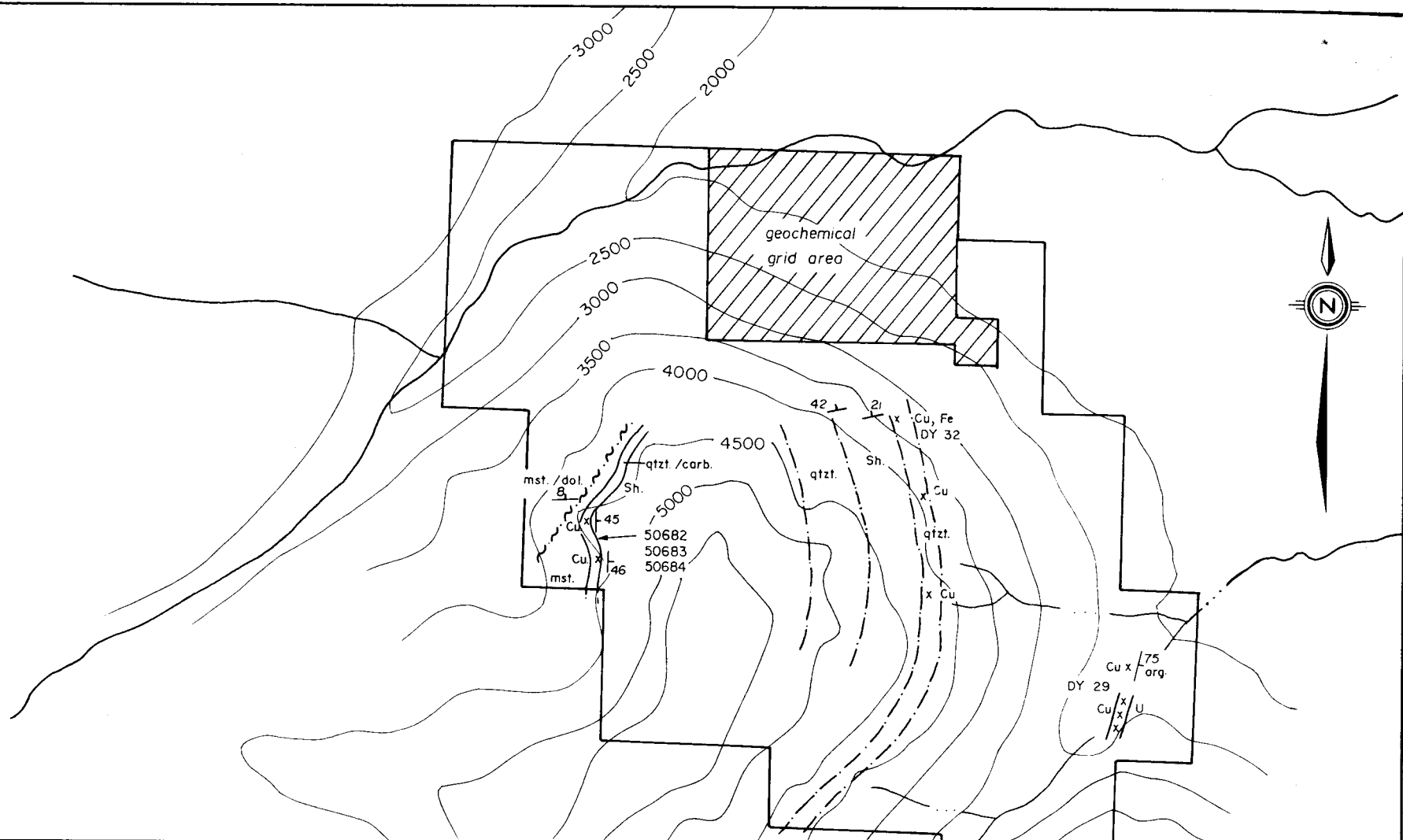
The second period of deformation, which involves both Paleozoic and Proterozoic strata, is weak compared to the first. This is particularly evident in the younger Carbonate sections to the west and southwest where deformation consists mainly of broad open folding and minor overthrusting.

LOCAL GEOLOGY & MINERALIZATION

The TET claims are underlain by rock types assigned to the Lower Proterozoic unit Ho as described in the G.S.C. Open File 279, covering the geology of the Wind River and Snake River map sheets. The unit is lithologically described as containing mainly dark grey, grey green, and black, thin-bedded argillite, slate, and phyllite; minor grey quartzite, orange weathering dolomite, and conglomerate. A preliminary geologic map was compiled on a scale of 1/2 mile equals 1 inch as an aid to delineating the geology and evaluating the copper and uranium occurrences on the property (Fig.4).

North Showing

The north showing occurs in the TET 21-TET 22 area



THOR EXPLORATIONS LTD.

**TET CLAIMS
106-E-1
GEOLOGY**

LITHOLOGY

- mst. Mudstone
- sh. Shale
- arg. Argillite
- qtzt. Quartzite
- carb. Undifferentiated carbonate
- dol. Dolomite
- XXXX Breccia

LEGEND

- 42 Bedding attitude
- - - - - Approximate trace of unit
- ~ ~ ~ ~ ~ Possible fault
- x Cu. Copper showing
- x U. Uranium showing

DRAWN Altair	SCALE 1" = 1/2 MILE	DATE DECEMBER 1976	FIG. 4
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on a steep, talus covered, northeasterly facing slope. Stratigraphically controlled copper mineralization occurs in a quartzite bed lying within a sequence of shales and quartzites approximately 1000 feet thick. The unit strikes 060° to 080° and dips 20° to 45° to the NNW. There does not appear to be any major faulting or folding in the vicinity of the showing.

The copper occurs as chalcopyrite and minor bornite in fractures and as discrete grains in a thick bedded, rusty weathering, fine grained quartzite unit. The quartzite unit is at least 40 feet to 45 feet thick however the exact thickness is unknown as the lower contact of the unit is talus covered. The bottom 10 feet to 15 feet of the unit is mineralized and this portion is exposed for approximately 40 feet of strike length. The quartzite contains varying amounts of hematite and magnetite. In some places up to 95% of the total rock is a fine grained hematite/magnetite mixture, in others hematite occurs only as stringers in small fractures.

Erratic compass readings near the showing indicates a strong magnetic anomaly associated with the mineralized unit.

The quartzite unit disappears under talus cover to the north of the north showing and is largely talus and

overburden covered to the south. Copper mineralized quartzite float was encountered approximately 1,400 feet to the SSW of the north showing and large amounts of copper mineralized, magnetite/hematite bearing quartzite float occur in an easterly flowing creek cut approximately 3,000 feet to SSW. The style of fracturing and mineralization in both these float occurrences is identical to that of the main showing, however, no outcrop was found in the vicinity of these showings.

West Showing

The west showing occurs in the TET 54 area on the south side of a steep-sided westerly trending ridge. Stratigraphically controlled copper mineralization is found in a 25' thick sequence of quartzite, shale, and carbonates lying within a larger sequence of shales and mudstones. The sequence strikes approximately north-south and dips 45° to the east. There is an inferred fault contact between the mudstones underlying the mineralized units and northerly dipping mudstones several hundred feet to the west.

The uppermost bed in the mineralized sequence is a three foot thick, fine grained, white quartzite in which chalcopyrite, malachite, and azurite occur in fractures and vugs and disseminated throughout the rock. There are also

limonite filled cavities and minor quartz/calcite veins and vug fillings.

Immediately underlying the quartzite bed is a six foot thick, thin bedded, light green shale unit. Thick coatings of malachite and azurite occur on bedding surfaces and in fractures throughout the entire unit.

The shale unit is underlain by an ankerite/calcite/dolomite bed which is approximately 10 feet to 15 feet thick. The carbonate rock is coarsely crystalline and weathers easily to form large talus trains. As a result it is difficult to judge the true thickness of the unit and the extent of mineralization within it is not precisely known. Float indications are that the unit is mineralized throughout.

The three units were observed to be mineralized for approximately 400 feet of strike length to the south at which point they become obscured by overburden. Along-strike extensions further to the south have not been investigated. The grade of copper mineralization appears to drop off to the north and northeast.

Mapping has not been carried out in the area between the north showing and the west showing so the stratigraphic and structural relationships of the two zones are unknown at this time.

Southeast Showing

A third showing occurs in the TET 2 area on the north side of a northeasterly flowing stream in the southeastern portion of the property. Copper and uranium mineralization are found in a sequence of rusty weathering, white and light green, thinly laminated argillites. The argillites strike 015° and dip approximately 75° to the east.

Chalcopyrite and malachite occur with quartz veins in the argillite and in fractured quartzite bands over a strike length of 20 feet. Occasional stringers of brannerite were found in a nearby 3 foot wide breccia zone made up of argillite breccia fragments in a quartz/carbonate matrix. Anomalous levels of radioactivity were also detected associated with limonitic bedding surfaces in the thinly laminated argillites. The showing appeared to be very local in extent.

ASSAYS

<u>Sample No.</u>	<u>% Copper</u>	<u>% U₃O₈</u>	<u>Description</u>
DY 29		0.077	Grab sample taken from radioactive white and light green argillites in southeast showing.
DY 32	1.92		Rock chip sample over 10x15' area in north showing. Sample taken from chalcopyrite/magnetite/hematite bearing quartzite.

<u>Sample No.</u>	<u>% Copper</u>	<u>% U₃O₈</u>	<u>Description</u>
50682	10.4		Continuous rock chip sample across 3 foot thick quartzite bed in west showing.
50693	4.50		Continuous rock chip sample across 6 foot thick light green shale unit in west showing.
50684	0.65		Grab sample of float train from ankerite/calcite/dolomite unit underlying shale unit in west showing.

GEOCHEMISTRY

In order to test the copper and uranium potential of the overburden covered area in the northern portion of the claims, a geochemical grid was laid out and a soil sampling program was conducted over the grid area. It was noted during the laying out of the compass lines in the soil grid that several of the lines cross over each other. From this it is inferred that a strong magnetic anomaly exists in the grid area.

A total of 284 soil samples were collected during the survey. The samples were taken at 200 foot intervals on 400 foot spaced lines. All samples were selected from B-horizon material and special care was taken to ensure that no organic material was included. The samples were placed

in kraft envelopes in which they were dried prior to shipment to Chemex Labs Ltd. in North Vancouver, B.C.

Upon receipt at Chemex Labs Ltd. the samples were screened to -80 mesh. A 1/4 gram portion was then digested with dilute HNO_3 and ppm uranium determined by standard flourometric procedures.

Copper Results

The values in parts per million Cu for each of the samples are plotted on Fig. 5 at a scale of 1" = 400'. Approximately 75 percent of the samples fall below 70 parts per million and the remaining 25 percent range from 70 ppm to 800 ppm.

Hand contouring of the results using 70 ppm as the approximate background level shows two large above background zones in the southern and southeastern portions of the grid and a smaller above background zone in the south central portion of the grid. For the purposes of this survey, values above 210 ppm are considered to be highly anomalous and values above this figure occur in both the southern and south central zones. The southern zone has a peak value of 800 ppm while the south central zone peaks at 310 ppm.

Uranium Results

The values in parts per million uranium for each of the

samples are plotted on Fig. 6 at a scale of 1" = 400'. Approximately 65 percent of the samples fall below 1.0 ppm and the remaining 35 percent range from 1.0 ppm to 11.6 ppm.

Hand contouring of the results using 1.0 ppm as the approximate background level shows two large above background zones in the southeastern and southern portion of the grid and a third in the south central to south western portion of the grid. For the purposes of this survey, values above 2.5 ppm are considered to be highly anomalous and values above this figure occur in both the southeastern and south central zones. The southeastern zone has a peak value of 11.6 ppm while the south central zone peaks at 3.2 ppm.

Discussion

Three large coincident copper-uranium anomalies exist within the survey area in the south-eastern, southern, and south central portions of the geochemical grid. Several other small coincident anomalies occur as station highs and may tentatively be considered as erratic values within the limits of the survey. There is a noticeable drop-off of geochemical values near the easterly flowing creek running across the northern portion of the claims; this may be due to dilution of soil values by stream carried sediments.

While the general topographic locations of the north showing and the geochemical survey grid are known, the strong magnetic anomaly in the northern portion of the claims makes exact compass surveying difficult. As a result it is not possible at this time to make precise correlations between geologic and geochemical data. Both the southeastern and southern anomalies are open to the south and are apparently related to an extension of the chalcopryrite/magnetite/hematite bearing quartzite unit of the north showing. The somewhat lower uranium values of the southern anomaly suggest that it correlates with the copper bearing unit.

The high uranium values associated with the southeast anomaly may correlate stratigraphically with the uranium showing in the southeast portion of the claims. However, the large intervening distance and lack of geologic data make this a tentative correlation.

CONCLUSIONS AND RECOMMENDATIONS

A series of showings and geochemical anomalies in the central and northern portion of the claims indicate copper mineralization in a favourable quartzite unit over a strike length of approximately 5,000 feet. Copper mineralization also exists in the western part of the property.

Uranium bearing rocks were found in the southeast part of the property and a strong coincident uranium/copper anomaly occurs in the northern portion of the claims.

It is felt that the results of the 1976 preliminary prospecting program are most encouraging and that follow up work during the 1977 season is warranted. The following five point program is recommended:

1. That a geology map be compiled for the entire property at a scale of 1" = 1000'. Government aerial photographs must be obtained for topographic control.
2. That detailed geologic mapping and sampling of known showings be carried out at a scale of 1" = 200'. This portion of the program should be done in close conjunction with intensive prospecting along the mineralized units. Plane table methods may be necessary to map showings in the magnetically anomalous quartzite unit.
3. Fill in geochemistry must be done over the anomalous areas of the geochemical grid and the grid should be extended to sample all overburden covered areas on the property.
4. A magnetic survey of the grid area should be carried out, and
5. A hand held scintillometer survey of the grid area should be carried out.

Respectfully submitted,

David A. Yeager- Geologist

David A. Yeager

ENGINEERS CERTIFICATE

I, CHARLES K. IKONA of 2614 St. Johns St.,
Port Moody in the Province of British Columbia hereby
certify that:

1. I am a consulting Mining Engineer with
offices at 610 - 850 West Hastings St.,
Vancouver, B.C.
2. I am a graduate of the University of British
Columbia with a degree in Mining Engineering.
3. I am a member in good standing of the
Association of Professional Engineers of
British Columbia.
4. I am familiar with the area in which the
TET claim group is located.
5. The accompanying report is based upon the
work of D. Yeager, Geologist, whom I have
worked with for several years and have
complete confidence in.
6. I have examined the data upon which this report
is based and am satisfied that the work reported
on was conducted in a satisfactory manner.



A handwritten signature in cursive script, appearing to read "Charles K. Ikona", written over the right side of the professional seal.

Charles K. Ikona, P.Eng.
December, 1976

APPENDIX II

LIST OF PERSONNEL

J. Forster, 705-850 W Hastings St., Vancouver, B.C.	Prospector	August 20- September 13, 1976
R. RENOUF, 705-850 W Hastings St., Vancouver, B.C.	Prospector	September 4 - 13, 1976
K. Hampton, 705 - 850 W Hastings St., Vancouver, B.C.	Prospector	September 4 - 6, 1976
D. Yeager, Box 261, Christina Lake, B.C.	Geologist	July 26, August 22-26 September 5, 11 December 3, 4, 15, 1976
C.K. Ikona, 2614 St. Johns St., Port Moody, B.C.	P. Eng.	December 15, 1976

APPENDIX III

STATEMENT OF EXPENDITURES

Wages:

J. Forester - \$60/day (25 dys)	\$ 1,500.00
R. Renouf - \$50/day (10 dys)	500.00
K. Hampton - \$50/day (3 dys)	150.00
D. Yeager - re: Harman Management Invoice Oct. 18/76 (4-1/2 dys @ \$100/dy)	450.00

General:

Room & Board	\$ 25.00
Supplies & Equipment	632.70
Air Freight	80.68
Air Fares	1,033.00
Fixed Wing Flying	379.50
Geochemical Analysis	1,211.80
Helicopter (1/3 Harman Mangement Invoice Oct.18/76)	629.00
Report Preparation	660.00

\$ 7,251.68

CANADA) In the matter of a geological and geochemical survey
) and report on the TET 1-54 Mineral Claims
)
 TO WIT:) on behalf of THOR EXPLORATIONS LTD.

I, C. K. Ikona of Pamicon Development Ltd. of 610 - 850 West Hastings St., Vancouver, B.C. do solemnly declare that geologic mapping and geochemistry programs were carried out on the TET mineral claims during the period August 20 - September 13, 1976.

The following expenses were incurred during the course of this work and in the compilation and reporting of the results:

Wages:

J. Forester -\$60/day (25 dys.)	\$ 1,500.00
R. Renouf - 50/day (10 dys.)	500.00
K. Hampton - 50/day (3 dys.)	150.00
D. Yeager (re: Harman Management Invoice Oct. 18/76 -4-1/2 dys @ \$100)	450.00

General:


Room & Board	25.00
Supplies & Equipment	632.70
Air Freight	80.68
Air Fares	1,033.00
Fixed Wing Flying	379.50
Geochemical Analysis	1,211.80
Helicopter (1/3 Harman Management Invoice Oct.18/76)	629.00
Report Preparation	660.00

\$ 7,251.68

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Declared before me at Vancouver)
 in the Province of British)
 Columbia this 7th day of)
JANUARY, 1977)





 Commissioner for Oaths for

_____ of Notary Public
 for the PROVINCE OF BRITISH COLUMBIA.

HARMAN MANAGEMENT LTD.
#907 - 675 West Hastings St.,
Vancouver, B.C.

301 - 580 Granville St.,
Vancouver, B.C.

October 18, 1975

INVOICE

QUARTET LAKES AREA

GEOLOGICAL SERVICES & SUPERVISION OF PROSPECTING IN THE
QUARTET LAKES AREA

D. Yeager - Geologist @ \$100.00/day		
Aug. 12th	Traversing on TET and sampling copper showing	\$ 100.00
Aug. 22nd	R.S. Adamson & D. Yeager - area reconnaissance and geology on TET & MAR	100.00
Aug. 23rd	Jake Forrester & prospectors - TET & SOL reconnaissance prospecting	100.00
Aug. 26th	1/2 day supervision of TET prospecting	50.00
Sept. 7th	1/2 day supervision of SOL prospecting	50.00
Sept. 10th	Geological supervision of TET prospecting	100.00
Sept. 11th	Geological supervision of TET prospecting	100.00
Aug. 26- Sept. 11th	Supervision & consultation to J. Forrester, P. Renouf & assistant on TET, MAR & SOL	100.00
		<hr/>
		\$ 700.00
Camp costs @ \$12.00/man/day - 7 days		84.00
Scintillometer Rental @ \$7.00/man/day		49.00
		<hr/>
		\$ 833.00

October 18, 1976

B/F \$ 833.00

Helicopter flying incurred on your behalf:

G3B1 Bell Helicopter -
OQI

Aug. 23	.5 hours @ \$155.00/hr.	\$ 77.50	
Aug. 24	.5 hours	77.50	
Aug. 25	.5 hours	77.50	
Aug. 26	.4 hours	62.00	
Aug. 27	.5 hours	77.50	
Sept. 3	.4 hours	62.00	
Sept. 4	.6 hours	93.00	
Sept. 6	.5 hours	77.50	
Sept. 7	.5 hours	77.50	
Sept. 8	.5 hours	77.50	
	<hr/>		
	4.9 hours @ \$155.00/hour	\$759.50	759.50

G3B2 Bell Helicopter
QFD

Sept. 9	.6 hours @ \$165.00/hr.	99.00	
Sept. 10	.5 hours	82.50	
Sept. 11	<u>.8 hours</u>	<u>132.00</u>	
	1.9 hours @ \$165.00/hour	\$313.50	313.50

TOTAL:

\$1,906.00

A. G. Harman

PAMICON DEVELOPMENT LTD.
610 - 850 West Hastings St.,
Vancouver, B.C.

Thor Explorations,
301 - 580 Granville St.,
Vancouver, B.C.

January 6, 1977

INVOICE

Professional Services in preparation of Report on TET Mineral Claims		\$ 550.00
Disbursements:		
Drafting & Reproduction	\$ 90.00	
Xeroxing & binding	<u>20.00</u>	110.00
Filing of Assessment Reports 54 claims @ \$2.00/claim		108.00
		<hr/>
		\$ 768.00
		<hr/>



304 CARLINGVIEW DRIVE
 METROPOLITAN TORONTO
 REXDALE, ONTARIO
 CANADA M9W 5G2
 PHONE: 416-677-2491
 CABLE: BARESEARCH

ADVANCED TECHNIQUES AND INSTRUMENTATION FOR THE EARTH SCIENCES

DATE: September 24, 1976

PROJECT: 11.41

- Demagel Developments Limited
 705-850 St. Hastings Street
 Vancouver, British Columbia.

PERIOD COVERED:

PROGRESS BILLING:

SHIPPING REPORT:

WORK REPORT: 54-A

FED. SALES TAX: 7/4

ONT. SALES TAX: 7/4

TERMS: NET 30 days

AUTHORITY: S. Young
 Project ~~11.41~~ ret

TO: DEMAGEL DEVELOPMENTS

201 WOLR, samples analyzed for copper	61.30 each	379.60
202 Uranium analysis	62.50 each	730.00
203 Soil sample preparation	@ .35 each	<u>162.20</u>

TOTAL INVOICE

1,271.80

5-776

INVOICE N^o 4112



2-7-76

- 816 - 850 W. HASTINGS ST.
- VANCOUVER, B.C. V6C 1E1
- TELEPHONE: (604) 687-8341
- TELEX: 04-51453 (UNIV-PAC-VCR)
- CABLES: "HEADTRAV"

DOMINICAL DEVELOPMENTS
 850 W HASTINGS
 VANCOUVER, B.C.

DATE August 15, 76

INVOICE NO 9553 A

60-008

ARRANGEMENTS FOR: MRS. S. JONES - MR. P. RENOUF
 MR. J. FORESTER - MR. K. HAMPTON DEPARTING August 19, 76

ROUTING
 VANCOUVER - WHITEHORSE - MARYS - WHITEHORSE
 VANCOUVER

QUANTITY	/												DESCRIPTION	CODE	UNIT PRICE	AMOUNT	
	AIR	CRUISES	RAIL	TOURS	HOTELS	INSURANCE	CAR RENTALS	TRAVELLERS CHEQUES	MISCELLANEOUS	TAXES	DEPOSIT	PREPAYMENT					
1	x												018 4401 695 112	A		332.00	
1								x								8.00	
1	x												018 4401 695 113	A		273.00	
1								x								8.00	
2	x												018 4401 695 114-115	A	223.00	446.00	
2								x								8.00 16.00	
INVOICE TOTAL																	1033.00

E. & O. E.

PAYMENT DUE UPON RECEIPT OF INVOICE - OVERDUE ACCOUNTS ARE SUBJECT TO 1 1/2% SERVICE CHARGE PER MONTH.



TRANS NORTH TURBO AIR (1971) LTD.
 BOX 4338, WHITEHORSE, YUKON

TELEPHONE (403) 668-5111 • TELEX 036-8-290

DONEGAL DEVELOPMENTS

CHARTERER

705-850 W Hastings

BILLING ADDRESS

Vancouver BC

FUEL & OIL	TNTA FUEL USED	HRS.-GALS.	FROM
TNTA	POST.		
<input checked="" type="checkbox"/>	2.7		MA

ACCOUNT NUMBER	874
16661	
INVOICE DATE	214 12 17 76
A/C TYPE	DHC-3 FSUB
FLIGHT DATE	21 08 76
PURCHASE ORDER NO.	

FROM	MILES	HOURS	ZONE	REMARKS - NO. OF PASS - FREIGHT LBS.
TO MAYO				
QUARTET LKS	115			5 PASS + GEAR
MYO	115			

5.7.76

SUB	G.L.	AMOUNT
3156	02	379.50

230 @ 1.65 379.50

TERMS: EIGHTEEN PERCENT INTEREST PER ANNUM WILL BE CHARGED ON ALL INVOICES NOT PAID WITHIN 30 DAYS OF DATE ISSUED.

WAITING TIME 50 @ /HR.
 FUEL: 379.50 @ /GAL.
 FUEL: 17.50 @ /GAL.
 MEALS & LODGING 396.51
 OTHER
 OTHER

Chet #15513
 8/9/76

[Signature]
 CHARTERER'S SIGNATURE

[Signature]
 PILOT'S SIGNATURE

ENGINEER'S NAME

TOTAL \$ 379.50

INVOICE

TA-IX Rev. 8/69

It is mutually agreed that the goods herein described are accepted in apparent good order (except as noted) for transportation as specified herein, subject to governing classifications and tariffs in effect as of the date hereof which are filed in accordance with law. Said classifications and tariffs, which are available for inspection at all CP Air Offices, are hereby incorporated into and made a part of this contract. Canadian Pacific Air Lines, Limited.

CPAir



VANCOUVER, B.C. CANADA

Express Airbill

Non-negotiable

018-14 370624

Shipper

DONEGAL DEVELOPMENTS

Consignee

DONEGAL DEVELOPMENTS

Street Address

705-850 W. HASTINGS

Street Address

c/o STANIS YOUNG

City

VANCOUVER #6851205

City

CPAIR WHITEHORSE

Shipper Must Sign Noting Conditions Of Carriage Above

Declared Value For Carriage Is

\$ N/A

Agreed And Understood To Be Not More Than The Value Stated In The Governing Tariffs For Each Pound On Which Charges Are Assessed, Unless A Higher Value Is Declared And Applicable Charges Paid Thereon.

X

Note -

Delivery Will Be Made To The Consignee At Points Where Delivery Service Is Available Unless Otherwise Specified.

Hold At Airport Hold At City Terminal

Insurance Requested

No


Yes \$

Prepaid

Collect

Pieces

Description Of Contents Including Methods Of Packing And Dimensions Weight In Lbs.

9 CAMPING GEAR  70

Rate Class	Item No.	Rate	Weight Charge
			31.00
			Valuation Charge
			Insurance Premium And Charge
			Pick-Up Charges
			Delivery Charge

Instructions To Carrier

HOLD FOR P/U.

Destination Airport

YX4

Flight

15

Date

19

Cash

Charge

Mo.	Day	Yr.	Rec.	Ag.	Cy.	Revenue	Interline	C.O.D.	Wt.	Wt.	Chgs.	Rte	Cl.
										1			

\$ Amount Collected

Consignee Goods Received In Good Order And Condition Except As Noted:

Stn. Date

Agent

Signature  Date Time

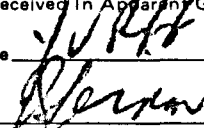
Shipper's

C.O.D.

Goods Received In Apparent Good Order (Except As Noted) By CPAir

At: Shippers Door

CP Office



City Terminal

Agent

Date 19 JUL Time 1840

Airport

Total Charges

X 018-14 370624

5 Consignee's Copy



NORTHWARD AIRLINES LIMITED

AIR BILL NON-NEGOTIABLE

(THIS SECTION TO BE COMPLETED BY CARRIER)

ORIGINATING STATION
CODE
XX

AIRBILL NUMBER
42517

It is mutually agreed that the goods herein described are accepted in apparent good order (except as noted) for transportation as specified herein, subject to governing classifications and tariffs in effect as of the date hereof, which are filed in accordance with law. Said classifications and tariffs which are available for inspection at all Northward Airlines Limited offices, are hereby incorporated into and made a part of this contract.

FROM (CONSIGNOR)			TO (CONSIGNEE)		
CONSIGNOR'S STREET ADDRESS			CONSIGNEE'S STREET ADDRESS		
CITY	ZONE	PROV.	CITY	PROV. OR STATE	COUNTRY
BY		CONSIGNOR'S NO.	DESTINATION AIRPORT (CITY)		CONSIGNEE'S NO.
<input checked="" type="checkbox"/> NOTE CONDITION OF CARRIAGE ABOVE DECLARED VALUE Agreed and understood to be not more than the value stated in the governing tariffs for each pound on which charges are assessed, unless a higher value is declared and applicable charges paid thereon.			INSERT SPECIFIC ROUTING HERE. AIRLINE ROUTING APPLIES UNLESS SHIPPER INSERTS		

RECEIVED BY CARRIER AT (CHECK ONE)			DELIVERY Will be made to the Consignee at points where delivery service is available unless otherwise specified below.			<input type="checkbox"/> CASH (CHECK TWO)		<input type="checkbox"/> CHARGE	
<input type="checkbox"/> CONSIGNOR'S DOOR	<input type="checkbox"/> CITY TERMINAL	<input type="checkbox"/> AIRPORT TERMINAL	<input type="checkbox"/> CITY TERMINAL	<input type="checkbox"/> AIRPORT TERMINAL	<input type="checkbox"/> PREPAID	<input type="checkbox"/> COLLECT			

NO. OF PIECES	DESCRIPTION OF PIECES AND CONTENTS	WEIGHT	AIRLINE ROUTING		RATE	CHARGES
			TO	VIA A'LINE		

INSTRUCTIONS TO CARRIER	SUMMARY OF CHARGES	PREPAID CHARGES	COLLECT CHARGES
	WEIGHT-RATE CHARGES	49 68	

Important CARRIER WILL COMPLETE ALL ITEMS BELOW BOLD LINE **EXCEPT CONSIGNOR'S C. O. D.**

WEIGHTS ARE SUBJECT TO CORRECTION

DIMENSIONS	DIMENSIONAL WEIGHT
X X = CUB. INS. =	

\$ RECEIVED TO APPLY IN PRE-PAYMENT OF THE CHARGES ON THE PROPERTY DESCRIBED HEREON.

BY AGENT
RECEIVED IN GOOD ORDER EXCEPT AS NOTED.

CONSIGNEE

DATE 19 TIME A.M. / P.M.

PICK UP CHARGE		
DELIVERY CHARGE		
EXCESS VALUE TRANSPORTATION CHARGE		
SERVICE CHARGE ON ADVANCE AND/OR C. O. D.		
SUB-TOTAL		
CHARGES ADVANCED COLLECT OR PREPAID BEYOND		
Consignor's C.O.D.	XX	XX
Total Charges		

I/ WE AGREE TO PAY THE AMOUNT OF ... \$
FIRM NAME

PER (AUTHORIZED REPRESENTATIVE)

6 FREIGHT

SHIPPER'S COPY

F 42517

PRINTED IN CANADA
NAL 105

RATE 25.00

Talena HOTEL (1972) LTD.

4109 FOURTH AVENUE P.O. BOX 4308 WHITEHORSE, YUKON TERRITORY PHONE (403) 667-2541 TELEX 049-8-295

FORESTER
K. HAMPTON

3019 EUCALYPTUS AVE.
VANCOUVER, B.C.

FIRM

09911
FROM 19/8/76
TO 30/8/76

BALANCE FORWARD

1	<i>Charge to: Room #133 (Young)</i>	1			
2		2		:	025.00 : BOOK
3		3	555 995 219	:	025.00 BAL :
4		4			
5		5			
6		6			
7		7			
8		8			
9		9	555 191 220	:	000.00 BAL :
10		10			
11		11			
12		12			
13		13			
14		14			
15		15			
16		16			
17		17			
18		18			
19		19			
20		20			
21		21			
22		22			
23		23			
24		24			
25		25			
26		26			

- ACCOUNT PAID BY
- CASH
 - AMEX
 - CHARGE X
 - DINERS
 - **AST. CH.

Regardless of charge instructions, the undersigned guest acknowledges the above as a personal indebtedness.

CHARGE TO _____

ADDRESS _____

SIGNATURE _____

LOUNGE
RESTAURANT
TELEVISION
GIFT SHOP
DRESS SHOP

KIND OF SALE	DANNY'S DEPARTMENT STORE LTD. — BOX 39, MAYO, YUKON			
CHG. <input type="checkbox"/> CASH <input checked="" type="checkbox"/>	SOLD TO: <u>DANKEA DEU LTD</u>		DATE <u>APR 20/76</u>	
				22641
QUANTITY	DESCRIPTION	DEPT.	UNIT PRICE	AMOUNT
	GROU ✓			
	HARDWARE			620.47
	PIC - MUSQ DAPE			122.3
	Paid <u>4-7-76</u> # <u>1518</u> [Signature]			#
				632.70
				620.47
			TOTAL	<u>620.47</u>

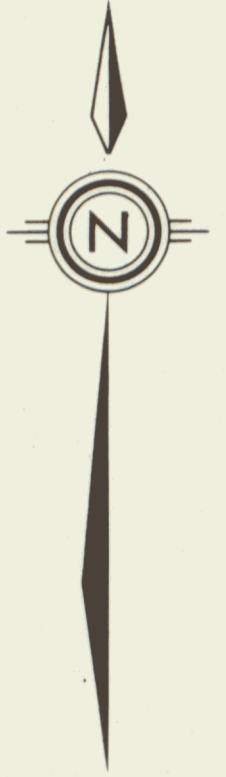
SAMPLE TYPE:	K ₂ O _w	U	SAMPLE	Cu	U	SAMPLE	Cu	U
SAMPLE NUMBER	ppm	ppm	№	ppm	ppm	№	ppm	ppm
205-13L	44	.8	325-6w	50	1.4	325-44w	22	.5
2w	46	.6	8w	22	.4	46w	34	.2
4w	28	.4	10w	42	.4	48w	110	1.4
6w	10	.5	12w	48	.5	50w	100	1.0
8w	78	3.2	14w	16	.5	52w	90	1.3
10w	20	.5	16w	26	.5	54w	97	1.7
12w	27	.4	18w	47	.8	56w	95	1.3
14w	65	1.0	20w	24	.6	58w	57	.8
16w	17	.5	22w	23	.5	60w	30	.7
18w	45	1.0	24w	35	.5	A 325-8L	95	.4
20w	18	.6	26w	32	.5	2w	58	.2
20w*	22	.7	28w	5	.4	4w	79	.2
22w	10	.5	30w	6	.6	6w	23	.3
24w	36	.4	32w	21	1.2	8w	50	1.2
26w	8	.5	34w	8	.4	10w	39	.4
28w	11	.7	36w	80	1.8	12w	62	.4
30w	15	.2	38w	18	.4	14w	42	.3
325-2w	33	.5	40w	22	.2	16w	30	.5
4w	50	.7	42w	11	.2	18w	49	.3

SAMPLE TYPE:																		
SAMPLE NUMBER	Cu ppm	U ppm	SAMPLE N°	Cu ppm	U ppm	SAMPLE N°	Cu ppm	U ppm										
A325-20w	42	.7	365-26w	44	.7	405-2w	47	.3										
22w	38	.4	28w	40	.4	4w	60	.2										
24w	45	.2	30w	47	.4	6w	46	.2										
26w	46	.4	32w	40	.8	8w	35	.3										
28w	50	.4	34w	35	.3	10w	95	2.4										
30w	37	.3	36w	46	.4	12w	26	.8										
365-BL	58	.5	38w	33	.8	14w	29	.5										
2w	30	.3	40w	57	.3	16w	28	1.1										
4w	29	1.0	42w	47	1.0	18w	47	.4										
6w	43	.4	44w	20	.4	20w	54	.8										
8w	54	.3	46w	27	.8	22w	51	.3										
10w	53	.4	48w	46	.4	24w	58	1.3										
12w	51	.3	50w	43	1.2	26w	63	1.5										
14w	56	.8	52w	46	.7	28w	38	.8										
16w	44	.2	54w	33	.2	30w	59	.4										
18w	44	.3	56w	57	1.0	32w	38	.4										
20w	48	.5	58w	76	.5	445-BL	43	.6										
22w	47	.2	60w	70	.2	2w	61	.4										
24w	31	.2	405-BL	64	.3	4w	34	.3										

SAMPLE TYPE:		Cu	Li	SAMPLE	Cu	Li	SAMPLE	Cu	Li
SAMPLE NUMBER		ppm	ppm	NO	ppm	ppm	NO	ppm	ppm
445-6w		61	1.0	445-44w	69	.3	A445-22w	97	1.4
8w		46	.7	46w	50	.2	24w	87	1.0
10w		31	.8	48w	47	.2	26w	53	1.0
12w		55	1.3	50w	58	.4	28w	63	.8
14w		51	.7	52w	50	.4	30w	240	1.0
16w		36	.6	54w	36	.2	485-13w	68	.8
18w		60	.4	56w	49	.3	2w	89	.6
20w		82	.7	58w	48	.6	4w	120	.7
22w		67	1.1	60w	40	.5	6w	145	2.4
24w		72	1.6	A445-2w	120	1.5	8w	165	.8
26w		57	.6	4w	115	1.0	10w	110	1.4
28w		65	1.2	6w	105	.8	12w	56	.2
30w		26	.5	8w	110	1.8	14w	20	.2
32w		56	.3	10w	105	.9	16w	37	.2
34w		63	.5	12w	48	.3	18w	32	.7
36w		26	.3	14w	41	.2	20w	56	.4
38w		42	.2	16w	42	.7	22w	98	1.7
40w		30	.8	18w	51	.2	24w	57	.3
42w		35	.4	20w	88	1.2	26w	56	.6

SAMPLE TYPE:	Cu	U	SAMPLE	Cu	U	SAMPLE	Cu	U
SAMPLE NUMBER	ppm	ppm	N°	ppm	ppm	N°	ppm	ppm
485-28w	40	.2	565-4w	66	.6	565-42w	32	1.2
30w	42	.4	6w	50	.5	44w	69	1.6
32w	310	1.0	8w	130	1.1	46w	37	1.8
34w	160	1.2	10w	52	.5	48w	54	1.6
36w	185	3.2	12w	60	.6	50w	38	2.4
38w	75	.6	14w	18	.3	52w	46	2.0
40w	50	1.3	16w	53	.5	54w	33	.9
42w	23	.2	18w	115	1.1	56w	16	.6
44w	36	1.8	20w	160	2.0	58w	52	.5
46w	29	.4	22w	220	1.0	60w	54	2.0
48w	32	.6	24w	51	.6	565-2E	120	6.4
50w	53	.5	26w	220	1.6	4E	91	1.9
52w	22	.2	28w	115	1.2	6E	44	.9
54w	36	.2	30w	46	.4	8E	35	1.4
56w	33	.2	32w	28	1.2	10E	12	.4
58w	27	.2	34w	26	1.2	12E	12	.4
60w	45	.2	36w	29	.8	14E	18	.6
565-BL	.78	.4	38w	250	2.2	605-BL	36	1.4
2w	96	1.0	40w	54	1.7	2w	51	1.2

SAMPLE TYPE:	Cu	U	SAMPLE	Cl	U	SAMPLE	Cu	U
SAMPLE NUMBER	ppm	ppm	NO	ppm	ppm	NO	ppm	ppm
605-4w	91	1.4	605-42w	24	.2	A565-22w	135	1.6
6w	92	1.8	44w	27	.7	24w	54	1.2
8w	98	1.3	46w	87	1.4	26w	90	1.5
10w	82	1.3	48w	24	.4	28w	42	1.1
12w	30	1.2	50w	35	.4	605-2E	26	.6
14w	100	1.6	52w	11	.2	4E	94	1.4
16w	73	1.6	54w	16	.2	6E	170	8.0
18w	54	.7	56w	16	.4	8E	145	3.8
20w	14	.3	58w	27	.3	10E	150	3.0
22w	140	2.4	60w	35	.7	12E	70	1.1
24w	800	2.4	A565-4w	55	.5	14E	78	2.0
26w	N.S.	N.S.	6w	100	1.6	645-BL	42	.8
28w	72	1.1	8w	150	1.7	2E	83	1.6
30w	65	1.4	10w	70	1.3	4E	160	6.4
32w	29	.8	12w	55	.5	6E	98	1.2
34w	51	.9	14w	23	.7	8E	81	3.8
36w	55	.6	16w	72	.5	10E	44	2.0
38w	49	.9	18w	97	1.3	12E	51	11.6
40w	38	.4	20w	33	.6	14E	29	1.3



AREA OF RECENT STAKING

TET CLAIM GROUP



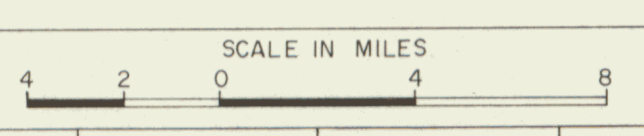
LEGEND

- QUATERNARY
 - 26 Unconsolidated glacial and alluvial deposits.
- CRETACEOUS & TERTIARY
 - 20a Orange-to-brown-weathering diorite and gabbro; altered equivalents.
- DEVONIAN
 - 10 Limestone, dark grey, brown and black, massive to thin-bedded, very fine grained, buff-grey-weathering.
- ORDOVICIAN & SILURIAN
 - 8 Grey-and buff-weathering dolomite and limestone, mostly medium to thick bedded; minor platy black argillaceous limestone and dolomite.
- PROTEROZOIC
 - 2 Orange-weathering, platy, grey green dolomite, dark slate, minor phyllite and quartzite.
 - 1 Mainly dark grey, grey green, and black, thin bedded argillite, slate, and phyllite; minor grey quartzite, orange-weathering dolomite and conglomerate.

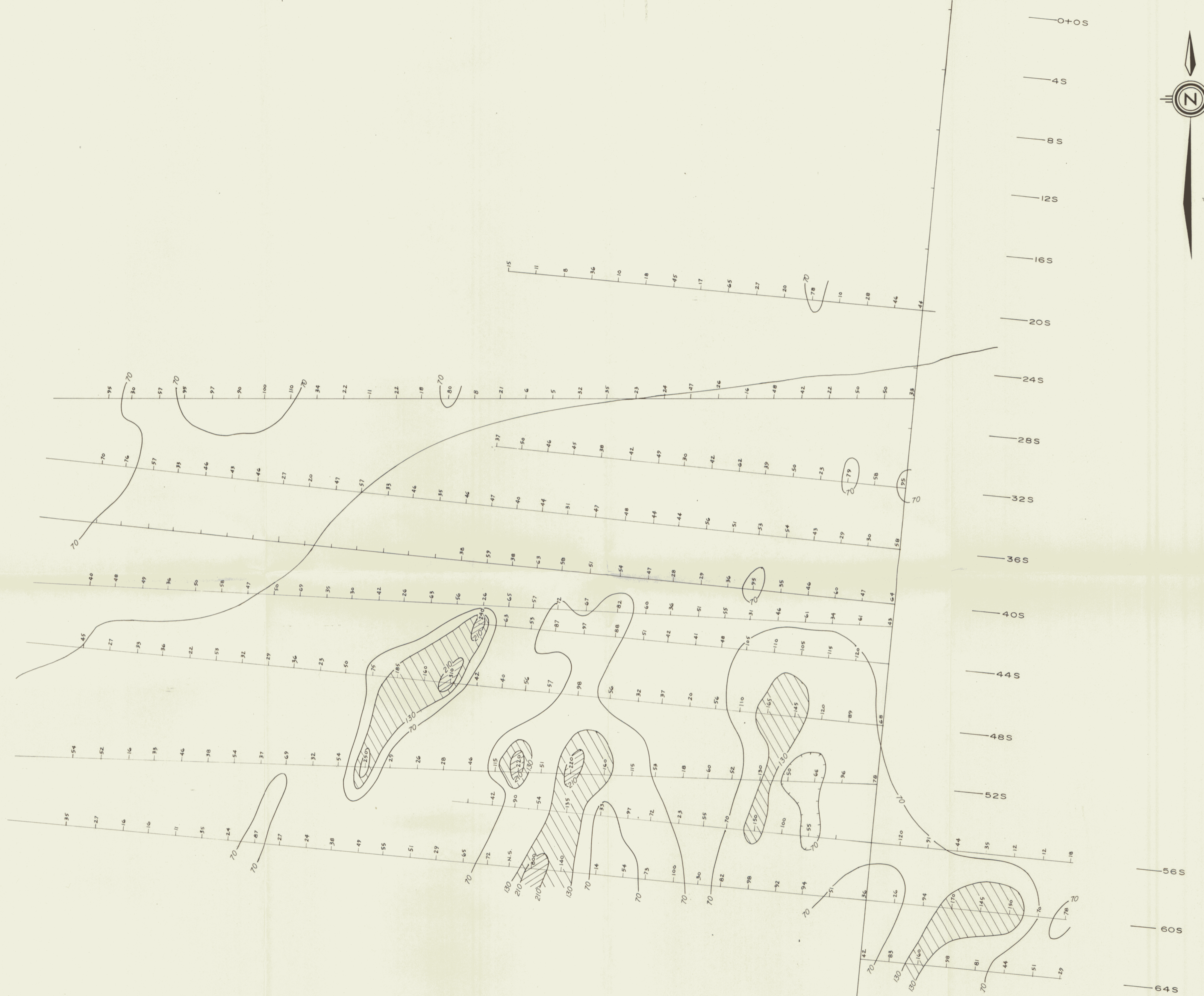
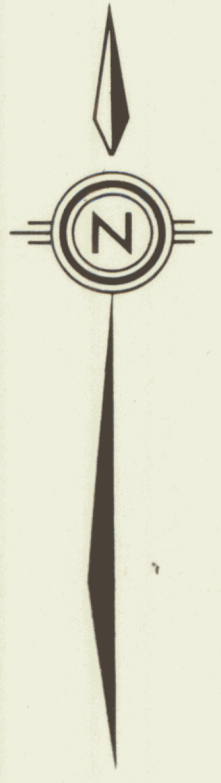
SYMBOLS

- Geological boundary
- Bedding tops known (horizontal, inclined, vertical)
- Bedding tops unknown (dip known)
- Bedding-foliation; (horizontal, inclined, vertical) (dip, m-medium, s-slight)
- Fault (defined, approximate, assumed)
- Anticline (defined, approximate, arrow indicates plunge)
- Syncline (defined, approximate, arrow indicates plunge)

THOR EXPLORATIONS LTD.
 GEOLOGY- SECTION OF
 OGILVIE MTNS.
 OUTLINE OF PROTEROZOIC BASIN



DRAWN Altair	PROJECT	DATE DECEMBER 1976	FIG. 3
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LEGEND



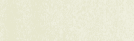

-  > 210 ppm strongly anomalous
-  130 - 210 ppm weakly anomalous
-  70 - 130 ppm above background.
-  0 - 70 ppm background

FIGURE 5

THOR EXPLORATION LTD.
TET CLAIM GROUP
QUARTET LAKES AREA
GEOCHEMICAL SURVEY
COPPER IN PPM

