

REPORT

on the

SKULL PROPERTY

FRANCES LAKE MAP AREA - 105H-1

YUKON TERRITORY

LATITUDE 61°14' N.

LONGITUDE 128°22' W.

by

JAMES W. McLEOD, B.Sc.

May 11, 1978

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*Proquetus*  
Feb 19/79  
Stand - Skat Res. L.

ALASKA

YUKON

TERRITORY

SKULL PROPERTY

N  
W  
T

COLUMBIA

BRITISH

LOCATION MAP

SKULL PROPERTY



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### FIGURES

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Figure 2 - Claim Plan (in back)  
Figure 3 - Geology Plan of lower zone (in back)  
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## SUMMARY

Preliminary examination of the Skull property in the Hyland River area of the Yukon Territory has revealed two mineralized zones within sericite-graphite schist containing significant lead, silver, and gold values.

An exploration program requiring approximately \$40,000. to complete is recommended on the property.

## INTRODUCTION

During September, 1977 the writer visited the Skull property. The examination involved mapping and sampling of the main showings (see Figure 2) and a general inspection of the claims.

This report is being prepared at the request of the Directors of Skat Resources Limited.

## LOCATION AND ACCESS

The property is located approximately 90 airmiles north of the town of Watson Lake, Yukon Territory.

Motor vehicle access to the property is gained by travelling from Watson Lake northerly for 68 miles on the Robert Campbell Highway, then northeasterly for 47 miles on the Cantung road and finally north-westerly for 5 miles on the Conglomerate Creek road.

Continued ...

PROPERTY AND OWNERSHIP

The Skull property is comprised of eight (8) contiguous mineral claims. An examination of some of the pasts indicates that the claims are well staked and in accord with the procedure outlined in the Yukon Quartz Mining Act. The claims are listed as follows:

SKULL 1-8            8 claims            expiry: July 7, 1978

The claims are owned by Mr. J.C. Turner of North Vancouver, B.C.

TOPOGRAPHICAL AND PHYSICAL ENVIRONMENT

The claims lie in gently rolling, terraced terrain on and approximately 500 feet above the west side of the Hyland River valley between 3400' - 3600' M.S.L.

The claim area is covered by coniferous vegetation (e.g. spruce and pine). The area experiences relatively low precipitation with short hot summers and cold winters. A good supply of water is afforded by Conglomerate Creek.

HISTORY

The property underwent cursory exploration in the form of hand trenching and a wide-spaced reconnaissance ground magnetic survey from 1968-70. No work is known to have been performed on the property since 1970.

Continued ...

GEOLOGY(a) Regional:

The general area has been described by members of the Geological Survey of Canada, Frances Lake Map, 6-1966, 105-H.

The claim area is described as being underlain by a series of sedimentary and meta-sedimentary rocks ranging from Precambrian to Devonian-Mississippian age, which in turn have been intruded by Middle-late Cretaceous igneous rocks ranging from granitic to dioritic composition.

(b) Local

The property is seen to be underlain by grey-black shales and phyllites, light-green chlorite schists, sericite and graphite schists and breccias. The schist zones which were observed to contain the most abundant sulphide mineralization were found to trend  $N315^{\circ}-350^{\circ}/42^{\circ}-85^{\circ}N$ .

Most of the outcrop observed was confined to the Conglomerate Creek canyon or its tributaries. The Conglomerate Creek Canyon is likely a fault trace as similar beds or zones do not always match-up on opposite sides of the creek.

MINERALIZATION

The mineralization observed by the writer was disseminated to massive, very fine-grained galena and pyrite. In most specimens of the more massive mineralization examined

the pyrite is far less abundant than the galena and appears to occur as exsolved blebs and/or bands within the galena. Mineralization is often accompanied by secondary quartz-calcite fissure and/or vug fillings within the sericite-graphite schist. The mineralized outcrop often takes on a highly oxidized, rusty appearance due to pyrite weathering. Note: Sphalerite and chalcopryrite mineralization has been observed but their occurrence is generally an exception.

## RESULTS

Two mineralized showings are known to date on the property, upper and lower zones (see figure 3). The lower zone of approximately 25 feet in width and 150 feet in length of generally weak galena mineralization with a central core (concordant with the foliation of the schist) of approximately 3 feet width that returned values of 17.25 Pb and 2.67 Oz/ton silver and 0.009 Oz/ton gold. The upper showing exhibits weak disseminated mineralization, concordant within the composition layers of the sericite-graphite schist for over 50 feet in width over an observed length of 30 feet or more. A massive zone of approximately 2-3 feet within the larger zone returned values of 25.60% lead, 3.44 Oz/ton silver, and 0.01 Oz/ton gold.

## CONCLUSIONS AND RECOMMENDATIONS

Two distinct mineralized zones are evident on the Skull silver property. Although both occurrences seem to be confined within sericite or sericite-graphite schist zones

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neither are seen to close-off along strike as both disappear into overburden cover. The strata-bound appearance of both mineralized zones suggests a good possibility of discovering additional mineralization along strike.

The writer recommends that the Company undertake the following outlined exploration program after the acquisition of additional claims especially in the directions of projections of the known mineralized zones. Grid control should be established with lines running in a northeasterly direction (i.e. perpendicular to the known stike direction) spacing of the reconnaissance lines should be no more than 100 feet. Geological mapping and prospecting should be completed first over a grid 4000 feet (northeasterly covering both mineral zones) in length and 2000 feet in width. The results of this work may help determine whether this grid is sufficient and where extension of the primary grid will be necessary. Geochemical soil samples should be taken every 100 feet along line. A V.L.F. - E.M. survey should then be conducted over this grid with stations every 50 feet. Bulldozer and/or hand trenching of the covered extensions of the known showings should be undertaken and similarly of any anomalies developed by the geochemical and/or geophysical surveys. This program is expected to take one month to complete at an estimated cost of \$40,000.00.

#### COST ESTIMATE

Grid installation	\$ 5,000.00
Geological mapping and prospecting	6,000.00

(continued over)

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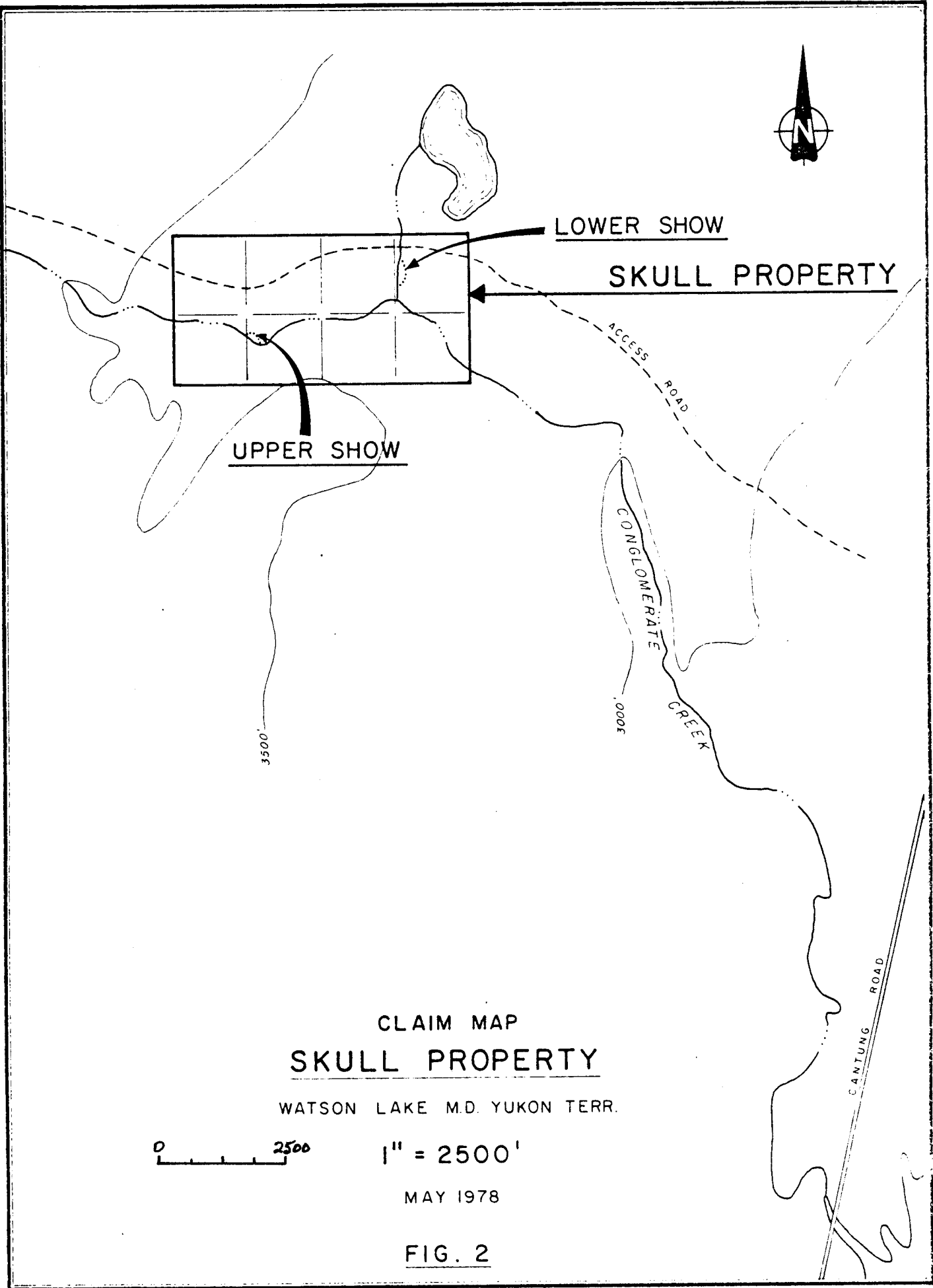
Cost Estimate (cont.)

Geochemical soil survey	3,000.00
V.L.F. - E.M. survey and follow-up "shoot back" work	4,000.00
Geochemical analyses	5,000.00
Camp and board	3,000.00
Trenching	3,000.00
Equipment and supplies	2,000.00
Transportation	4,000.00
Engineering, reports and maps	2,000.00
Contingency	<u>3,000.00</u>
TOTAL:	\$40,000.00

Respectfully submitted,

  
James W. McLeod, Geologist





LOWER SHOW

SKULL PROPERTY

ACCESS ROAD

CONGLOMERATE CREEK

3500'

3000'

CANTUNG ROAD

UPPER SHOW

CLAIM MAP  
SKULL PROPERTY

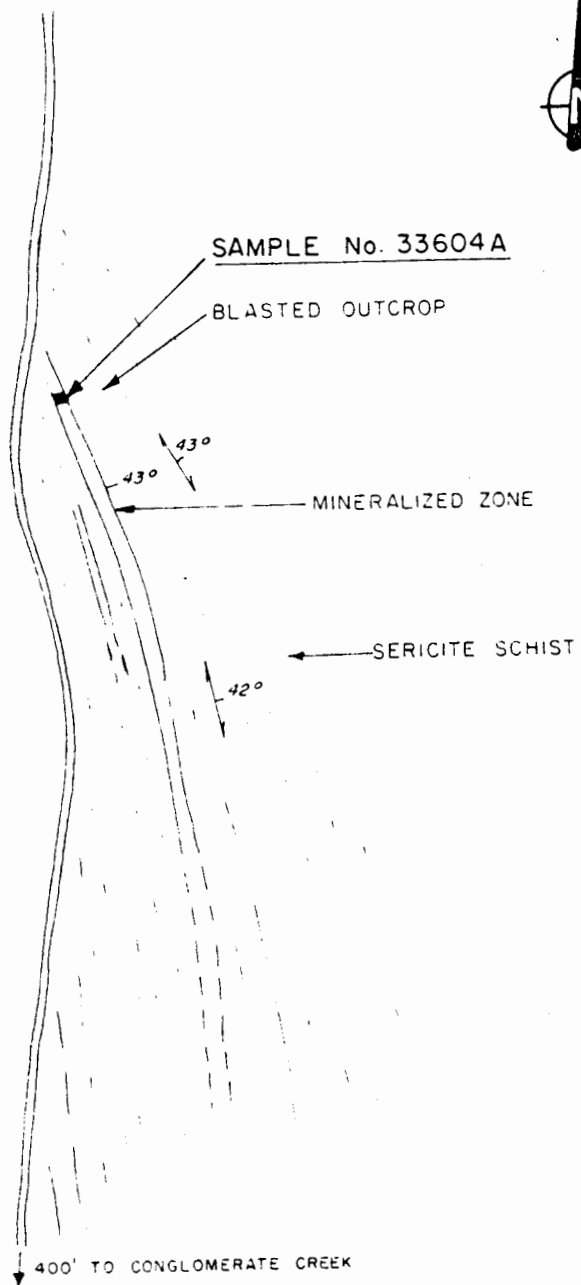
WATSON LAKE MD. YUKON TERR.



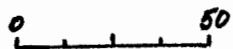
1" = 2500'

MAY 1978

FIG. 2



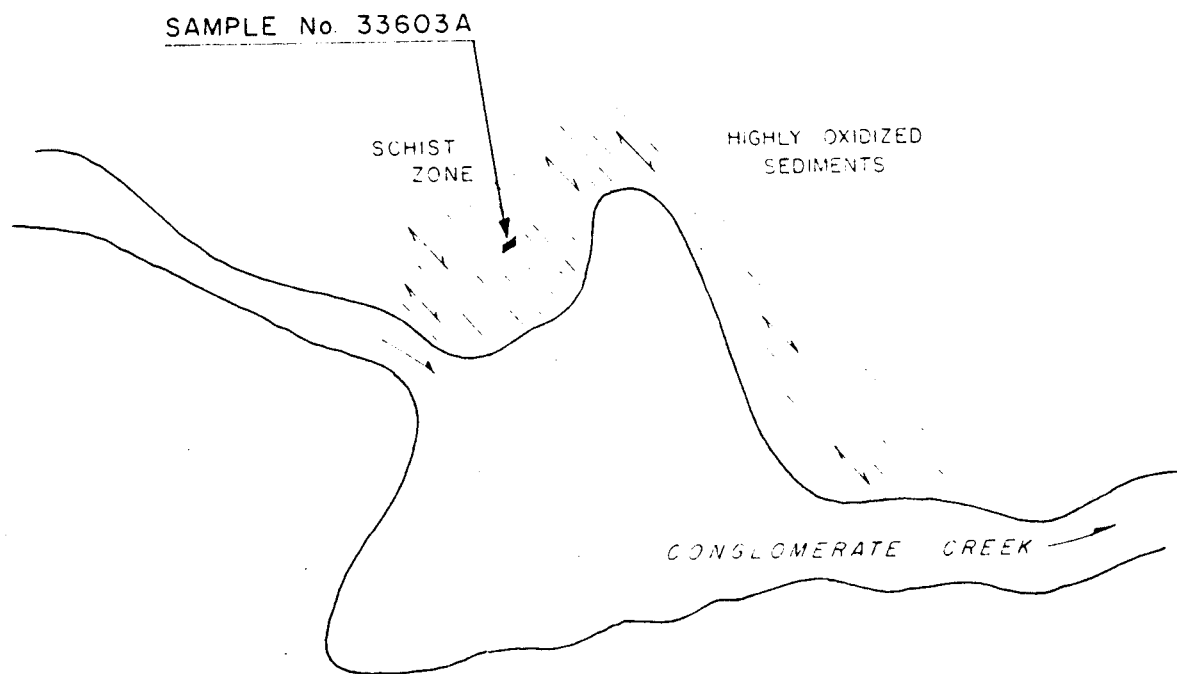
SKULL PROPERTY  
GEOLOGY PLAN  
of  
LOWER ZONE



1" = 50'

MAY 1978

FIG. 3



SKULL PROPERTY  
GEOLOGY PLAN  
of  
UPPER ZONE



1" = 50'

MAY 1978

FIG. 4



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)	John C. Turner	Occupation	Prospector
(Postal Address)	Box 94, Watson Lake, B. C.		

OFFICE DATE STAMP

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)

YA58063 - YA58098 SKULL 145 - 180.

situated at 61°15'N. L. 128°25'W. L. Claim Sheet No. 105-H-8

In the Watson Lake Mining District, to the value of at least 18000.00

dollars, since the 30th day of May 19 81,

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

YA58063 - YA58098 SKULL 145 - 180. 5 Years

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)

EM, Mag and Geochemical Work done by R. Wank and Crew of Watson Lake May 30th to Sept. 15th, 1981.

Sworn before me at Watson Lake Y.T.  
this 19 day of Febr 1982  
Nancy Moore  
Notary Public

J. C. Turner  
Applicant.



Department of Indian Affairs and Northern Development

YUKON QUARTZ MINING ACT

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(Postal Address)	Box 94, Watson Lake, B. C.		

OFFICE DATE STAMP

MAKE OATH AND SAY, THAT :-

1. I ~~am the owner~~ <sup>XXXXXX</sup>, or agent of the owner, of the mineral claim(s) to which reference is made herein.

2. I ~~have done~~ <sup>XXXXXX</sup>, 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)

YA57586 - YA57633 SKULL 97 - 144

situated at 61°13'N.L. 128°22'W.L. Claim Sheet No. 105-H-1/8

in the Watson Lake Mining District, to the value of at least 74000.00

dollars, since the 30th day of May 19 81,

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

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

YA57586 - YA57633 SKULL 97 - 144 5 Years

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)

EM, Mag and Geochemical Work done by R. Wank and crew of Watson Lake May 30th to Sept. 15th, 1981.

Sworn before me at Watson Lake Y.T.  
this 19 day of July 1982

[Signature]  
Notary Public

[Signature]  
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.)



I (Name)	John C. Turner	Occupation	Prospector
(Postal Address)	Box 94, Watson Lake, B. C.		

OFFICE DATE STAMP

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.  
XXXXXXXX

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)

YA57530 - YA57585                      SKULL 41 - 96

situated at 61°13' N.L. 128°22' N.L.                      Claim Sheet No. 105-H-1/8

in the Watson Lake Mining District, to the value of at least 28000.00

dollars, since the 30th day of May 19 81.

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

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

YA57530 - YA57585                      SKULL 41 - 96 5 Years

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)

EM, Mag and Geochemical Wrok done by R. Wank and crew of Watson Lake May 30th to Sept. 15th, 1981.

Sworn before me at Watson Lake Y.T.  
this 19 day of February 19 82  
M. Moore  
Notary Public

John C. Turner  
Applicant.