

437

TABLE OF CONTENTS

	Title:	(on cover)
Appendix "A"	:	Statement of qualifications of Murray O. Hampton, Geologist
Appendix "B"	:	Statement of Costs of Survey
Page	(1) :	Introduction
Page	(2) :	Description Procedure
Page	(3) :	Geology
Page	(4) :	Conclusions
In Pocket	:	Geological Map of ANT twenty mineral claim group /

Department of Mines and Petroleum Resources ASSESSMENT REPORT	
NO. 437	MAP.....

104I/2W

APPENDIX "A"

Statement of Qualifications of Murray O. Hampton

Geologist

Education: Entering final year of the course
leading to degree of B.A.Sc. in
Geological Engineering

Experience: One season's geological work with Utah
Construction & Mining Co. in Alaska -
1960. One season's geological work
with Badyke Mines Ltd. in northern
British Columbia - 1961. One season's
geological work with Julian Mining Co.
Ltd. in Northern British Columbia - 1962

APPENDIX "B"

SUB-MINING RECORDER
M. D.
SEP 14 1962
PRINCE GEORGE, B. C.

STATEMENT OF COSTS OF SURVEY

ANT MINERAL CLAIM GROUP

Geologist

Wages	30 days @ \$25.00 per day	\$750.00	
Maintenance	30 days @ \$ 7.00 per day	<u>210.00</u>	\$ 960.00

Helper

Wages	30 days @ \$15.00 per day	\$450.00	
Maintenance	30 days @ \$ 7.00 per day	<u>210.00</u>	660.00

<u>Supervision</u>	30 days @ \$ 7.50 per day		225.00
--------------------	---------------------------	--	--------

<u>Mapping and printing</u>			<u>165.00</u>
-----------------------------	--	--	---------------

TOTAL			<u><u>\$2,010.00</u></u>
-------	--	--	--------------------------

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 the *City* }
of *Prince George*, in the }
Province of British Columbia, this *14th* } *Roderick Inceval*
day of *September*, A.D. }
1962.

[Signature]
.....
A Commissioner for taking Affidavits within British Columbia, or
A Notary Public in and for the Province of British Columbia

JULIAN MINING CO. LTD.

GEOLOGICAL REPORT

on the

ANT MINERAL CLAIM GROUP

Introduction:

The twenty mineral claim ANT group consists of four ANT mineral claims numbered 1, 2, 3 and 4 located by Kolbjorn Lovang in September, 1961 and sixteen TNA mineral claims numbered 5, 6, 7, 8, 9, 10, 11, 12, 15, 16, 29, 30, 31, 32, 37 and 38 located by Roderick Macrae September, 1961. Copper mineralization had been found in float and in place in the central area of the group.

The mineral claims were acquired by Julian Mining Co. Ltd. in 1962. Julian Mining Co. Ltd. employed the services of the writer and one assistant to map the geology of the area of the ANT mineral claim group. Between July 3 and August 2 data was collected from which the enclosed geological map was compiled.

Description:

The ANT mineral claim group occupies an area approximately 1.5 miles S 10 E of La Marge Lake. It is on the north slope of the ridge at an elevation of approximately 5000 feet above sea level. The southeast corner of the group has latitude and longitude of $58^{\circ} 10'$ N and $128^{\circ} 53'$ W respectively. Access to the area can be gained by float equipped, fixed-wing aircraft to La Marge Lake and, thence, by tractor trail from La Large Lake to the mineral claim group or from Dease Lake by tractor trail. Much of the area is covered by overburden, scrub forest and/or talus.

Procedure:

Central portion of mineral claim group was mapped using a transit and stadia methods. The mapping originated from and was controlled by a transit and tape baseline. Outer portions of the group was mapped by a series of pace and compass traverses originating and terminating on the baseline. All correction adjustments to the traverses were made by graphical methods. The geological map enclosed was compiled by the writer from information of the above surveys on a scale of $1'' = 400'$.

Geology:

Rocks within the ANT group of mineral claims are, in the main, limestone and volcanic rocks of Permian and/or Triassic age. The limestone is a white and grey banded variety which is somewhat silicified. The beds of limestone strike N 37 E and dip 50 SE in the central part of the group. The dip and strike varies considerably in the area with irregular minor folds and fracturing. Volcanic rocks in area are a mixture of flows and ejecta mainly of andesite composition. Way-up of the strata is unknown. Rocks of the entire area are highly jointed and fractured. In the central area some of the limestone and volcanic rocks are altered to chloritized and serpentized schists. These schists have a variety of colors with green and purplish being most common.

The area has undergone faulting with the main fault being north of the northern boundary of the group. From the surrounding area the main fault appears to be a thrust fault which has lowered the southern strata in relation to the northern. Apparent vertical displacement is in excess of 500 feet. The main fault strikes irregularly NW - SE. Schist, mineralization and topography in the central area suggest another fault striking N 60 E.

In trenches in the central area near the common corner of mineral claims ANT No. 1, ANT No. 2, ANT No. 3 and ANT No. 4 veins of quartz and

calcite with chalcopyrite and minor amounts of pyrite are exposed. The mineralized zone lies parallel to bedding with horizontal exposure to 10 feet in width narrowing both ways along strike and is traceable through three trenches for a length of 80 feet. Sulphide mineralization is not found in other trenches farther along strike. These observations suggest a lens-shaped deposit. The quartz and calcite is in contact on both sides with the schist. Minor amounts of sphalerite and pyrrhotite are found in limestone in central part of ANT No. 1.

Conclusions:

Based on this examination of outcrops of rock and rock exposed in the trenches within the ANT mineral claim group area, it can be concluded that:

- (1) Banded limestone in area strikes northeast and dip to the southeast.
- (2) Volcanic rocks in area are a mixture of andesite flows and ejecta.
- (3) Some of the volcanics and limestone have been altered to chloritized and serpentized schists.
- (4) All rocks in area are highly jointed and fractured.

- (5) Deposit of chalcopyrite in quartz and calcite is probably lens-shaped.
- (6) There are minor amounts of sphalerite and pyrrhotite mineralization in the area.

Respectfully submitted,

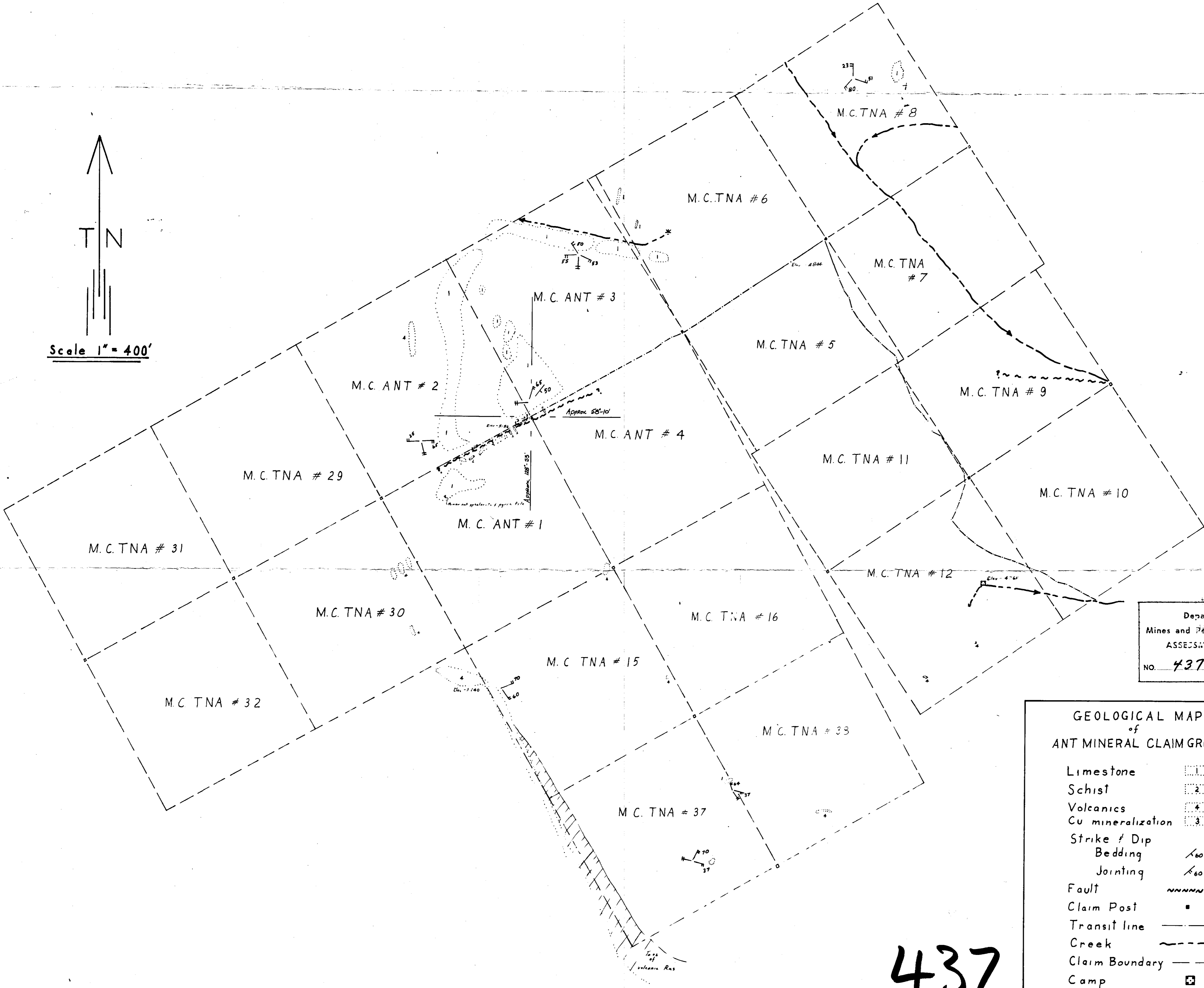
Murray O. Hampton

Murray O. Hampton

Dated September 11, 1962

Federick Mason

T N
 Scale 1" = 400'



Department of
 Mines and Petroleum Resources
 ASSESSMENT REPORT
 NO. 437 MAP 1

GEOLOGICAL MAP
 of
 ANT MINERAL CLAIM GROUP

Limestone	□
Schist	□
Volcanics	□
Cu mineralization	□
Strike / Dip	
Bedding	/60
Jointing	/60
Fault	~~~~~
Claim Post	■
Transit line	— — — — —
Creek	~~~~~>
Claim Boundary	- - - - -
Camp	⊕

437

Murray O. Hampton
 September 11, 1962