



41116SE0001 0013A1 VOGT

010

RECEIVED

JUL 3 1975
by hand
PROJECTS UNIT.

RAND REEF MINES LIMITED
SUITE 1609, 44 VICTORIA STREET
TORONTO, ONTARIO

RECEIVED

DEC 9 1975

Au, U3O8

GEOLOGICAL SURVEY

of the Southeast Group of 31 claims
and fractional claims, out of a block
of 171 claims in total.

By: Michael Ogden, B.A.Sc., P.Eng.

May and June, 1975

H. B. & O. ENGINEERING LIMITED

2,1848

GEOLOGICAL SURVEY

21848

of the Southeast Group of 31 Claims and Fractional
Claims, out of a Block of 171 Claims in Total

INTRODUCTION

Most of the ground in this survey has now been held for two years. Hence the geological survey was initiated, prior to the company being financed, for the double purpose of doing a year's work and to see if more complete and useful data could be obtained from the outcrop that was available.

The basic purpose of this survey and the ensuing drilling program is to resolve the conflict in the drill assays of 1955 by E. L. MacVeigh with that of the 1958 work by Franc Joubin. Mr. MacVeigh reported an ore grade intersection of gold in two holes and Dr. Joubin got about 1/7 of those values from the same horizon.

PROPERTY

The surveyed portion of the property consists of 31 claims and fractional claims:

25	claims	numbered	L-369668	to	692	were	recorded	May	24,	1973
2	"	"	S-414278	&	79	"	"	June	20,	1974
1	"	"	S-424997	"	"	"	"	May	30,	1975
3	fractional	claims	S-397758	to	60	"	"	June	3,	1975

LOCATION AND ACCESS

The property is located just south of the south arm of Lake Timagami, and on the east shore of Baie Jeanne. It is accessible from Timagami by boat from the end of the "mine road", a distance of 9 or 12 miles respectively.

Access is also available by 20 miles of bush road from either of Martin River at the junction of highway 11 and 64, or River Valley at the junction of routes 539 and 805.

HISTORY

The previous work on the property as recorded in the files of the Ministry of National Resources, Toronto, is as follows:

- 1955: Four holes were drilled near the south end of the east arm of the property. They were drilled by D'Eldona Gold Mines Limited, under the direction of L. S. Trenholme and totalled 2,100 feet.
- 1955: Six holes were drilled by Aubay Uranium Mines Limited under the direction of E. L. MacVeigh, for a total of 1,002 feet of drilling. Five of these were drilled near the east boundary, about one mile north of the D'Eldona drilling. The last one was drilled at the south end of the biggest island between the two arms of the claim group.
- 1956: Another hole was drilled about half a claim east of the island hole above. It was directed by D. W. Sullivan for Aubay Uranium Mines and was 714 feet in length.
- 1958: Eight holes were drilled under the direction of Franc Joubin by a Prosc0-Aubay group, to check the work of MacVeigh. A total of 1,842 feet was drilled. No sludge samples were collected.
- 1969: The Keevil Mining Group held a claim block very similar to the present east arm of the property. A geological survey was completed over the ground as well as a magnetometer survey, a Crone Radem V.L.F. with Sharpe S.E. 200 V.E.M. checks, and a Scintillometer survey. Although drilling was recommended, nothing further was done.

1970-1971: Gunnex did a geological survey by H. S. Wilson over the southeast portion of the east arm of the property.

1973: Michael Ogden, investigating for the Gowganda Syndicate, extended the known occurrence in Vogt Township to many locations around the edge and within the Huronian Basin north of Sudbury. He confirmed the previous work on the property that gold exists in the mineralized quartz-pebble conglomerates by obtaining an assay of 0.074 ounces of gold per ton from outcrop of quartzite with a few quartz pebbles in it and 2% pyrite.

Previous drill core records show some conflicting gold values.

Particular confusion occurs in two sections where MacVeigh in 1955 recorded .35 ounces gold over 3 feet and .40 ounces gold over 2 feet, whereas Joubin in 1958 wedged both sections and recorded .05 to .06 ounces gold on over 5.1 feet and .06 gold over 2.3 feet respectively. In comparing both sets of drill records the writer places more credence on MacVeigh's results as explained below:

a) MacVeigh drilled 4 holes in April - May 1955 and recorded values of gold ranging from trace to .35 ounces.

b) MacVeigh drilled holes 5 and 6 in September 1955 and again values of gold ranging from trace to .40 ounces were recorded confirming his previous drilling in a). Any core loss or grinding is not recorded in either a) or b).

c) Joubin drilled 8 holes in October - November 1958. In the two wedges mentioned above 58 % of the core was lost in one section while in the other grinding of the core is recorded. Recorded values of gold range from nil to .06 ounces.

d) Uranium values are not available for the Joubin wedged sections discussed above. MacVeigh records U_3O_8 values up to 0.052 percent. In a

third hole, No. 3, drilled by MacVeigh and wedged by Joubin, direct comparison between assayed sections is not possible as footage sampled differs and all assay data are not available. In this hole 3, however, MacVeigh records 0.05 ounces/ton in two sections over 2 feet and 3 feet respectively and U_3O_8 values up to 0.043 percent. Joubin records gold up to 0.04 ounces/ton and U_3O_8 up to 0.026 percent, but in the 7.9-foot section sampled by Joubin, 2.2 feet of core is lost. The higher gold and U_3O_8 values recorded by MacVeigh suggests a loss of mineralized material in the core lost by Joubin.

e) A surface sample collected by Ogden close to the drilled area assayed 0.074 ounces.

GENERAL GEOLOGY

The north portion of this claim group is underlain at depth by a series of Keewatin lavas and iron formation which strike east-west and dip steeply to the north. The southern part of the area has Keewatin sediments, standing in a similar attitude, and these are followed by the great undulating diabase sill that is so often present in the region.

This ground is, however, directly underlain by fairly flat-lying conglomerates and greywacke of the Gowganda Formation. Some Mississagi gold-bearing quartz pebble conglomerates and quartzites intermittently separate these Huronian rocks from the underlying Keewatin.

THE SURVEY METHOD

The topography trends north or northeast so that traverses were made to the north or south at 400-foot intervals, or less.

If any bedding was apparent, a dip and strike was recorded. The outcrop as shown is that of outcrop area, and is a generalization of the true shape.

The forest cover is indicated on the map by a symbol that shows

the predominant tree type in that area.

The field work was completed by the writer with Manford Harper of Hagar as assistant during the period May 15 to 29 inclusive.

SOIL COVER

The soil is light clay over most of the property, with a 1500-foot wide ridge of deep sand that extends across the property from the centre of the north boundary to near the southwest corner.

ROCK TYPES

The Keewatin sediments and volcanics are the oldest rocks of the area. Black and white banded magnetic iron formation (B & W IF), along with weak sulphide iron formation (IF) is found near the edges of the property. So also is greywacke (G), quartzite (QT), Arkose (AK), banded arkose (BAK), rhyolite (R) and basic lavas (L).

These are overlain in the southeast claims by a soft, sometimes banded or sheared argillite up to 200 feet thick, with a little interbedded quartzite (AQ). This formation shows in holes 1, 2, 3, and 4, but is not exposed in outcrop. It, perhaps, should be correlated with the McKim Formation, a thick series of similar well-sorted rocks that are exposed from Sudbury west.

The soft series is overlain, in the southeast by dark grey granular quartzite (QT) or greywacke (G) which carries one to four beds of uraniferous and gold-bearing, pyritic quartz pebble conglomerates, varying from a few scattered pebbles to beds of 15 feet in thickness (QPC). This in turn is followed by a fist-sized conglomerate up to 150 feet thick (FC). Then a layer of quartzite follows (QT). The last three make up what has been termed the Mississagi Formation in this area. Toward the north a couple of claims, the McKim argillite disappears and sometimes the quartz pebble conglomerate,

so that fist conglomerate rests directly on Keewatin.

Following the above is a thick series (1000 feet or so) of finely banded or varved greywacke (VG), often with scattered pebbles in it (PVG). This seems to be followed by massive greywacke (G) and fist-size conglomerate (FC) and pebbled greywacke (PG), all of which have been considered to be of the Gowganda Formation.

FAULTING

Three areas of sheared, or brecciated, or strained rock have been joined into one long zone of probable fault extending from south to north through the property, about one claim in from the east boundary. The west side has been moved south or down and probably not more than about 500 feet.

STRUCTURE


The Huronian sediments lie in a south trending basin with much rock slumpage, or in a south trending syncline whose axis trends down the middle of the claim group or perhaps both effects have contributed to the present attitudes of the Huronian rocks.

RECOMMENDATIONS

The vicinity of all the old drilling should be mapped in detail on a scale of 100 feet to the inch. This would help guide the future drilling and provide data on the extent and variety of the auriferous quartz pebble conglomerates and their environment.

The present picket line should be extended another 4200 feet and lines cut from it at 200-foot intervals. A total of 8 more miles of line is required for a cost of about \$1200. The geology would cost another \$1800, so some \$3000 is required to complete this proposal.

MAY AND
June 27, 1975


Michael Ogden, B.A.Sc., P.Eng.



41116SE001 0013A1 VOGT

900

File 2.1848

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

RECEIVED

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

JUL 3 1975
by hand
PROJECTS UNIT

Type of Survey GEOLOGICAL
Township or Area VOGT
Claim holder(s) FRANK REEF MINES LTD.
1609, 44 VICTORIA ST. TORONTO
Author of Report MICHAEL OGDEN
Address R12-4 STOUFVILLE, ONT.
Covering Dates of Survey MAY 14 TO JUNE 30
(linecutting to office)
Total Miles of Line cut NONE

MINING CLAIMS TRAVERSED
List numerically

L - 369668
(prefix) (number)

- L - 369669
- L - 369670
- L - 369671
- L - 369672
- L - 369673
- L - 369674
- L - 369675
- L - 369676
- L - 369677
- L - 369678
- L - 369679
- L - 369680
- L - 369681
- L - 369682
- L - 369683
- L - 369684
- L - 369685
- L - 369686
- L - 369687
- L - 369688
- L - 369689
- L - 369690
- L - 369691
- L - 369692

If space insufficient, attach list

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
Geophysical	
-Electromagnetic	
-Magnetometer	
-Radiometric	
-Other	<u>20</u>
Geological	
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: JULY 3/75 SIGNATURE: Michael Ogden
Author of Report

PROJECTS SECTION L.D.
Res. Geol. _____ Qualifications 63A.383
Previous Surveys 63.2642 mag, E n and
geological 1969 2.212 geochemical EM
Checked by performed in 1970 date 63.3257 not for
assessment credits

GEOLOGICAL BRANCH _____

Approved by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

TOTAL CLAIMS 25

OFFICE USE ONLY

**GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT**

RECEIVED

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FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

JUL 3 1975

PROJECTS UNIT

Type of Survey GEOLOGICAL
 Township or Area VUGT
 Claim holder(s) JHE BURNS
50213BURY ONT.
 Author of Report MICHAEL OGDEN
 Address RR-4 5 TOWNVILLE ONT.
 Covering Dates of Survey MAY 14 TO JUNE 30
(linecutting to office)
 Total Miles of Line cut NONE

MINING CLAIMS TRAVERSED	
List numerically	
<u>S-397758</u>	<small>(prefix) (number)</small>
<u>S-397759</u>	
<u>S-397760</u>	
TOTAL CLAIMS <u>3</u>	

SPECIAL PROVISIONS CREDITS REQUESTED	DAYS per claim
Geophysical	
--Electromagnetic	
--Magnetometer	
--Radiometric	
--Other	
Geological	<u>20</u>
Geochemical	

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
 Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)
 DATE: JULY 3 SIGNATURE: Michael Ogden
Author of Report

PROJECTS SECTION
 Res. Geol. _____ Qualifications 63A.383
 Previous Surveys _____

 Checked by _____ date _____
GEOLOGICAL BRANCH _____

 Approved by _____ date _____
GEOLOGICAL BRANCH _____

 Approved by _____ date _____

OFFICE USE ONLY

If space insufficient, attach list

GEOPHYSICAL - GEOLOGICAL - GEOCHEMICAL
TECHNICAL DATA STATEMENT

RECEIVED

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

JUL 3 1975
by hand
PROJECTS UNIT.

Type of Survey GEOLOGICAL

Township or Area VOGT

Claim holder(s) MICHAEL OGDEN

Author of Report MICHAEL OGDEN

Address RR-9 STOUFVILLE, ONT.

Covering Dates of Survey MAY 14 TO JUNE 30
(linecutting to office)

Total Miles of Line cut NONE

MINING CLAIMS TRAVERSED
List numerically

5-414278
(prefix) (number)
5-414279
5-424997

SPECIAL PROVISIONS
CREDITS REQUESTED

DAYS
per claim

ENTER 40 days (includes
line cutting) for first
survey.

ENTER 20 days for each
additional survey using
same grid.

Geophysical
- Electromagnetic _____
- Magnetometer _____
- Radiometric 20
- Other _____
Geological 20
Geochemical _____

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: July 3/75 SIGNATURE: Michael Ogden
Author of Report

PROJECTS SECTION

Res. Geol. _____ Qualifications 63A.383

Previous Surveys _____

Checked by _____ date _____

GEOLOGICAL BRANCH _____

Approved by _____ date _____

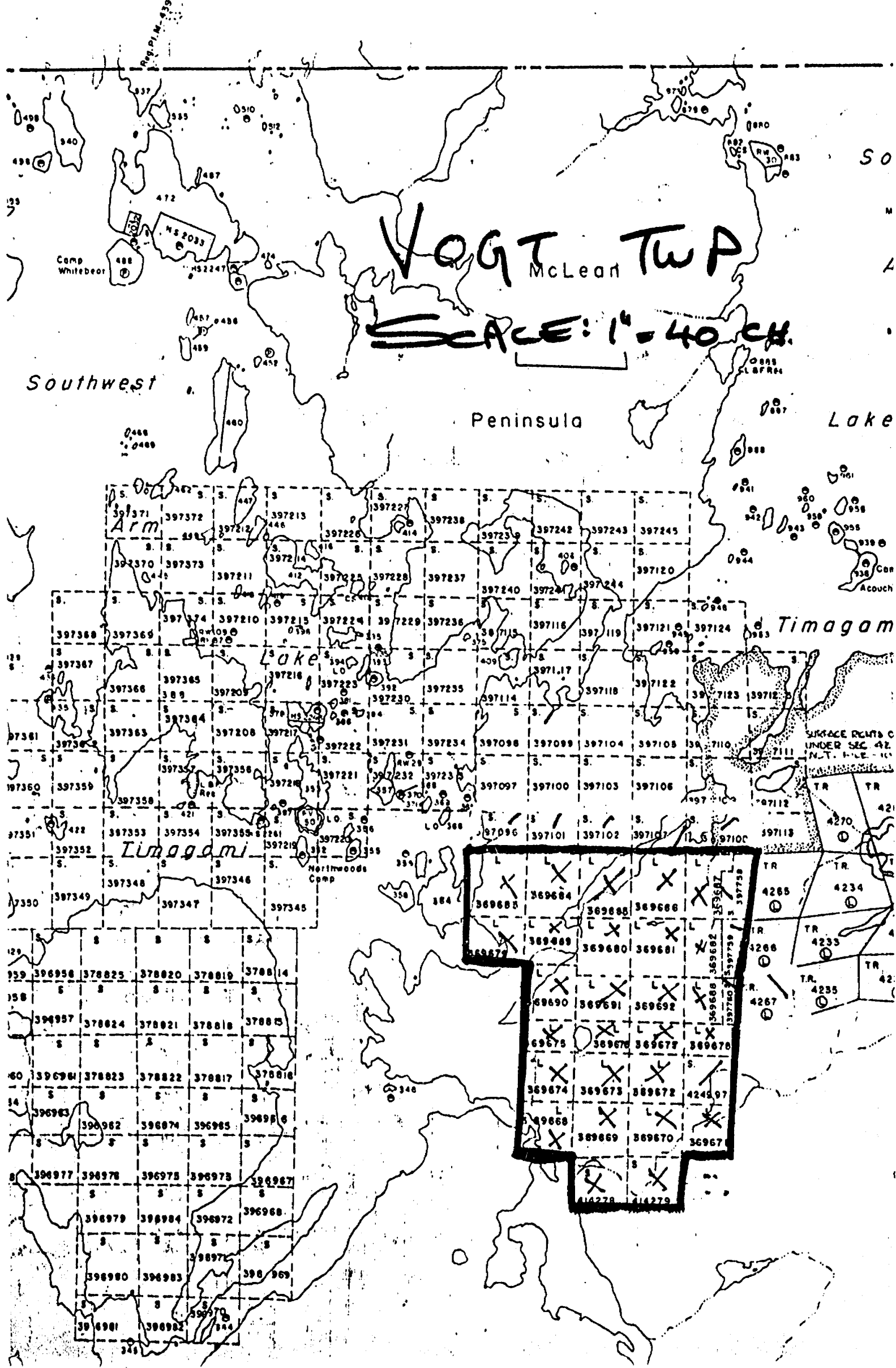
GEOLOGICAL BRANCH _____

Approved by _____ date _____

TOTAL CLAIMS 3

OFFICE USE ONLY

If space insufficient, attach list



VOGT McLean TWP

SCALE: 1" = 40 CH.

Southwest

Peninsula

Lake

Arm

Lake

Timagam

Timagam

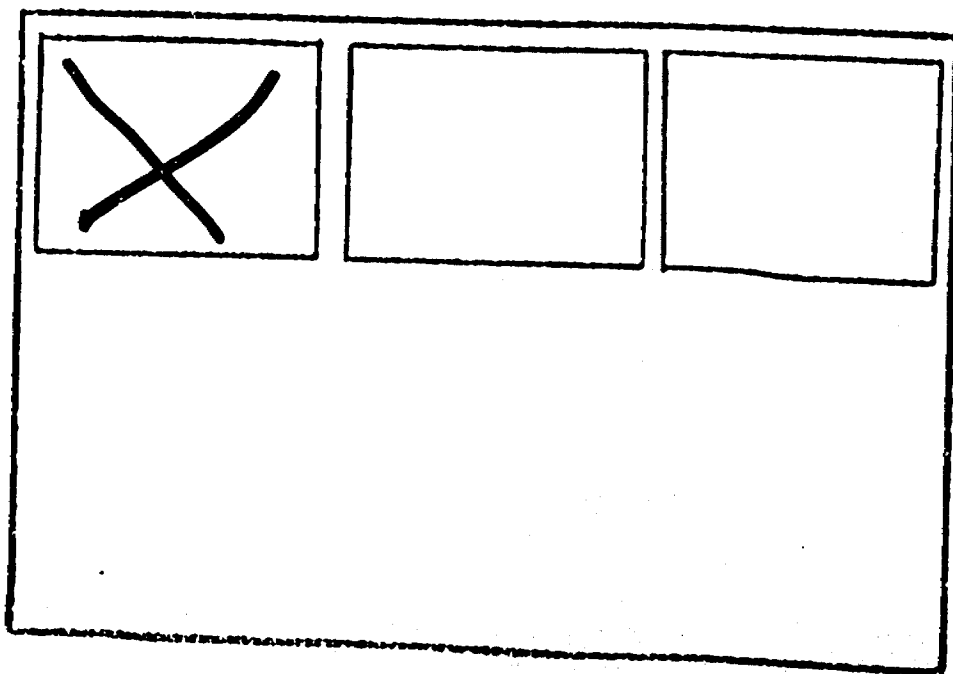
Northwoods Camp

SURFACE RIGHTS UNDER SEC. 42 N.T. FILE 100

369682	369684	369686	369688	369690
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369705	369706	369707	369708	369709
369710	369711	369712	369713	369714
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369985	369986	369987	369988	369989
369990	369991	369992	369993	369994
369995	369996	369997	369998	369999

SEE ACCOMPANYING
MAP(S) IDENTIFIED AS
VOGT-0013-A1.71

LOCATED IN THE MAP
CHANNEL IN THE FOLLOWING
SEQUENCE (X)



LEGEND

- TAILINGS
- DRY MINE
- DAM/PILE, SANDY/CLAY
- ROAD, FAMILIAR
- ROAD, UNFAMILIAR
- SWAMP
- GREY QUARRY/BANK
- SANDSTONE
- SILTSTONE
- SHALE
- CLAYSTONE
- BASALTIC BRECCIA
- BASALTIC TUFF
- BASALTIC LAVA
- BASALTIC DYKE
- BASALTIC GNEISS

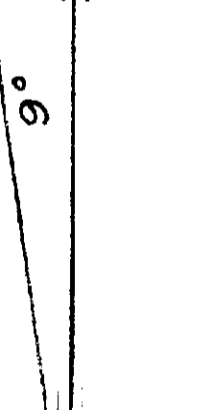
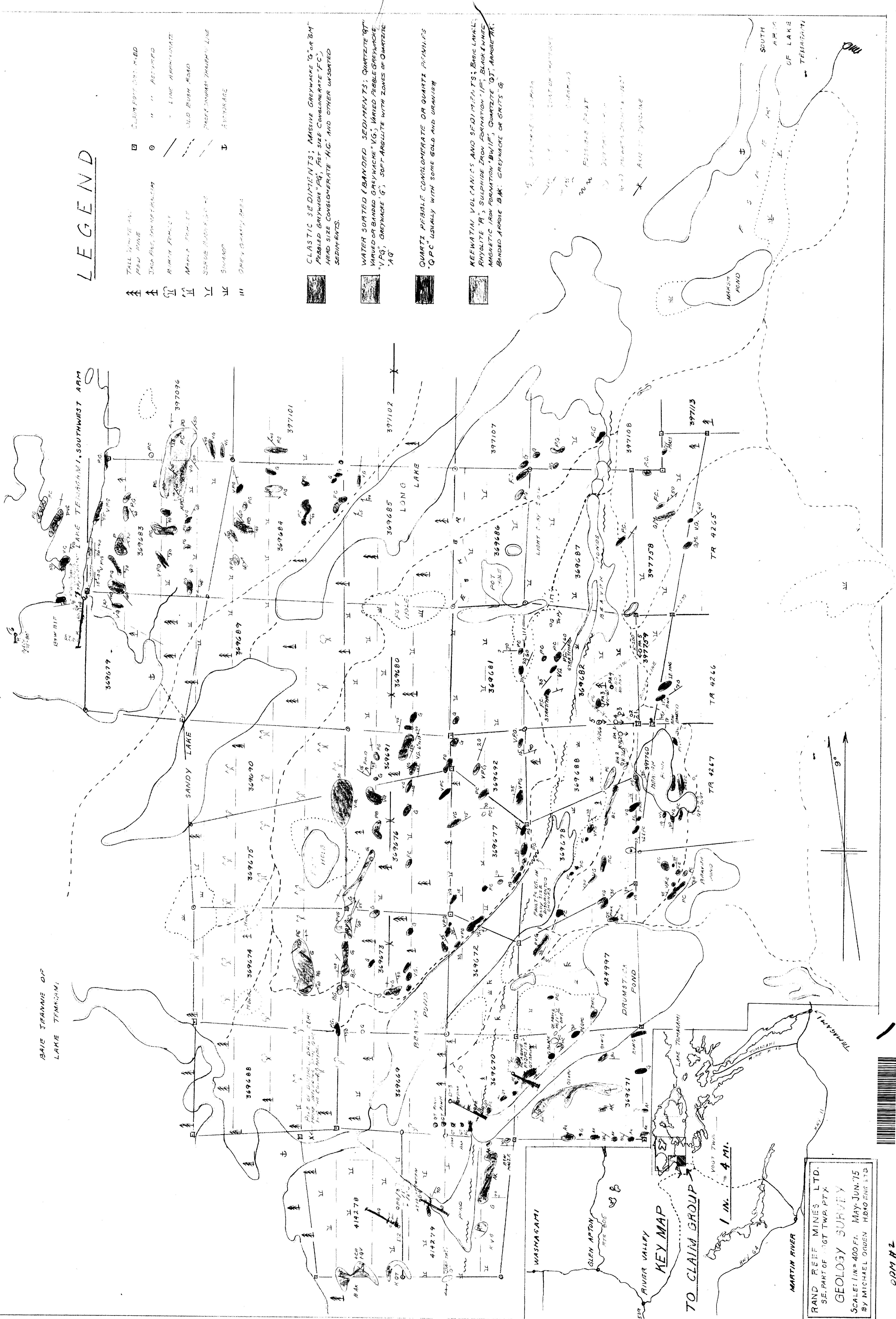
CLASTIC SEDIMENTS; MASSIVE GREYWACKES 'G' OR 'GM'
PEBBLED GREYWACKES 'PG', FINE SIZE CONGLOMERATE 'FC',
MEDIUM SIZE CONGLOMERATE 'MC' AND OTHER UNSORTED
SEDIMENTS.

WATER SORTED (BANNED) SEDIMENTS; QUARTZITE 'Q'
MOTTLED OR BANDED GREYWACKES 'VG', MARLED PEBBLE GREYWACKES
'Y' 'FG', GREYWACKES 'G', SOFT ARGILLITE WITH ZONES OF QUARTZITE
'AQ'

QUARTZITE, PEBBLED CONGLOMERATE OR QUARTZITE PEBBLES
'Q', 'PC', USUALLY WITH SOME GOLD AND URANIUM

KEEWATIN VOLCANICS AND SEDIMENTARY; BASIC LAVA;
RYHOLITE 'R', SULPHIDE IRON FORMATION 'IF', BLACK LAMAE,
MAGNETIC IRON FORMATION 'B/M', QUARTZITE 'QT', MARBELL,
BANDED ARGILLIC 'BA', GREYWACKES OR GRITS 'G'

BAYE TERNAMINE OF
LAKE TEMAGAMI;



2000



WASHASAMI
GLEN APTON
RIVER VALLEY
KEY MAP
TO CLAIM GROUP
1 IN. = 4 MI.
RAND REEF MINES LTD.
S.E. PART OF TWP. PTX.
GEOLOGY SURVEY
SCALE: 1 IN. = 400 FT., MAY, JUN. '75
BY MICHAEL ORDEN, HEMO ENG. LTD.

02M H2