52F/15NE-0016-AI

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GEOLOGICAL REPORT ON THE GULLWING LAKE CLAIM GROUP KOSOWY OPTION DROPE AND WEBB TOWNSHIPS

by A.P. Pryslak
and F.W. Breaks
December, 1981

INTRODUCTION

The Kosowy Option consists of a group of 24 contiguous claims situated in Drope and Webb Townships. The claims are centered approximately 15 miles NE of the town of Dryden, Ontario, and are accessable by vehicle via the Ghost Lake Road which connects with Hwy. 601 near the Dryden Airport.

The report covers work on 20 of the 24 claims which were amenable to line-cutting. A N-S baseline was cut along the Drope - Webb Township line. Sub-baselines were cut at 2000-foot intervals. Line spacing was 400-feet. This was reduced to 200-feet at the north end where numerous pegmatite dykes invade the mafic meta-volcanics. Stations were established at 100-feet intervals along the grid lines.

The area has been moderately well explored for base metals. Also, the pegmatites have received some attention for their molybdenum and lithuim potential during the late 1950's, early 1960's. However, the rare-metal potential of the pegmatites was not recognized until examination of the area was made by the author in the fall of 1980.

Previous exploration is recorded by the Ontario Geological Survey maps, P.2331 and P.2332. (Speed and Maxwell, 1980).

The geological mapping which was carried out by F.W. Breaks. Senior assistant was P. Whipple and junior assistants were G. Baschuk, A. Beales and C. Lisco.

The mapping was conducted between July 15 and October 20, 1981.

2/...

GEOLOGY

The Kosowy Option claim group is situated within the Wabigoon Subprovince, proximal to the boundary of the English River Belt. Tantalum-bearing granitic pegmatites intrude the supracrustal rocks which consist of mafic metavolcanic flows, intermediate metavolcanic pyroclastics and clastic metasediments.

The mafic metavolcanics comprise a unit that apparently surrounds the Lateral Lake Stock. The southwest portion of this unit underlies the north part of the claim group. The mafic metavolcanics host the spodumene-tantalum zoned pegmatite on claim Pa.540579 and the Tot Lake spodumene-pollucite-tantalum zoned pegmatite situated 1 mile N 45°E from the former dyke.

The mafic metavolcanics are fine to medium grained and moderately foliated to lineated. Regional metamorphism has converted them to amphibolite consisting of: green hornblende ± plagioclase ± biotite ± garnet ± actinolite. Foliation trends N 70°E to East with dips varying from 30° to 60°S. Except for rare pillow selvages, primary textures are not commonly evident.

The intermediate metavolcanics are contained within two southwest striking units on the south part of the claim group. They are heterolithic pyroclastics with clasts ranging up to 1'x2' in dimension. The ovoid clasts range in composition from andesite to dacite.

The clastic metasediments occur as a wedge between the mafic metavolcanics and the intermediate pyroclastics. They are generally well bedded with the dominant assemblage consisting of quartz + feldspar + biotite ± muscovite ± garnet. Feldspathic biotite metawacke, quartz-rich biotite metawacke and calcic metamudstone (amphibole-garnet-biotite) are considerably less frequent rock types.

Felsic Intrusive Rocks

The metavolcanic-metasedimentary rocks have been invaded by a profusion of generally narrow, steeply dipping granite pegmatite dykes. These dykes are usually less than 15 feet wide and consist of two distinct types as reflected by accessory minerals:

1) white to light pink, garnet + green muscovite ± biotite (unit 5c and d in legend on maps) and,

2) light to moderate pink, garnet + biotite ± muscovite (unit 5b in legend on maps).

Three large granitic-pegmatitic masses were encountered by the geological survey.

1) ovoid shaped pluton on claim Pa.589031,

2) bifurcating dyke system at the intersection of claims Pa.589026, 589027, 589030 and 589031 and

3) the Gullwing Lake rare-metal pegmatite on claim Pa 540576 and 540579.

The first mass is part of a larger pluton outlined by Page (1980). It appears to be zoned with respect to accessory minerals; biotite forms the core area and is replaced by muscovite within the outer shell which varies between 200 to 650 feet in width.

The second pegmatitic granite mass is similar to the first. Locally it is characterized by phemose agregates of quartz + green muscovite, accessory garnet is also present. The dyke appears to have been emplaced along intersecting northeast and northwest trending joints which produced the branching aspect of the mass.

The third granitic pegmatite mass is the tantalum-bearing pegmatite that led Selco into the area in search of an economic tantalum deposit.

The pegmatite mass is 1350 feet long, moderately curvilinear with a regional trend of N 20°W. The width varies from 40 to 150 feet and the dips are subvertical.

Extension stripping and bleaching of the dyke established three tantalum-bearing zones at surface. These are situated at the north end of the dyke, 200 south and 800 feet south of the north terminus of the dyke.

The pegmatite is somewhat unique in that it represents a vertical section of approximately 180 feet, with the zoned sections all being exposed along portions of the dyke that are topographically low. These correspond to the tantalum-bearing zones mentioned above.

Primary zoning of the pegmatite is recognized both by an increase in grain-size towards the core area and by differing mineral assemblages. The normal quartz + feldspar + biotite ± muscovite gives way to a zone consisting of quartz + blocky K-spar. The K-spar maybe upto 3 feet in length and quartz pods upto 20 feet thick and 30 feet in length. The core area consists of quartz cleavelandite + muscovite + spodumene with lipedolite, garnet, beryl and tantalite as minor accessory minerals.

The primary assemblage has been affected by pervaissive albitization. Like the primary zoning, the albitization alteration can be seen only in the lowest vertical portions of the pegmatite. The replacement is best described by mineral assemblages.

I Primary Assemblages:

A. Block quartz + block K-spar ± albite ± muscovite zone

B. Spodumene + block K-spar + quartz + albite + muscovite zone

Replacement Assemblages:

A. Equigranular albite ± quartz ± muscovite ± k-spar

B. Bladed biotite + muscovite + equigranular albite + quartz ± K-spar remanents

C. Lepidolite + cleavelandite + muscovite + garnet + beryl + tantalite

D. Tantalite + muscovite + porphyroblastic albite

Tantalum mineralization is closely associated with the zone of albitization. It occurs as isolated euhedral crystals upto 1.1 x 2.2 x 5cms in dimension. The highest density of tantalum crystals is found along the upper part of the spodumene zone at the north end of the dyke which coincides with the lowest exposed vertical section of the dyke.

CONCLUSIONS AND RECOMMENDATIONS

Geological mapping has established economically interesting tantalum mineralization in three seperate zones within the Gullwing Lake pegmatite. These zones appear to be connected at depth and represent a strike length of at least 950 feet for this mineralization. The replacement assemblages indicate that a zone of high tantalum potential exists at depth.

It is recommended that the dyke be tested by diamond drilling. The initial drilling should be set up to test the alteration areas 300 to 400 feet below the outcrop level.

by A.P. Pryslak
and F.W. Breaks

REFERENCES

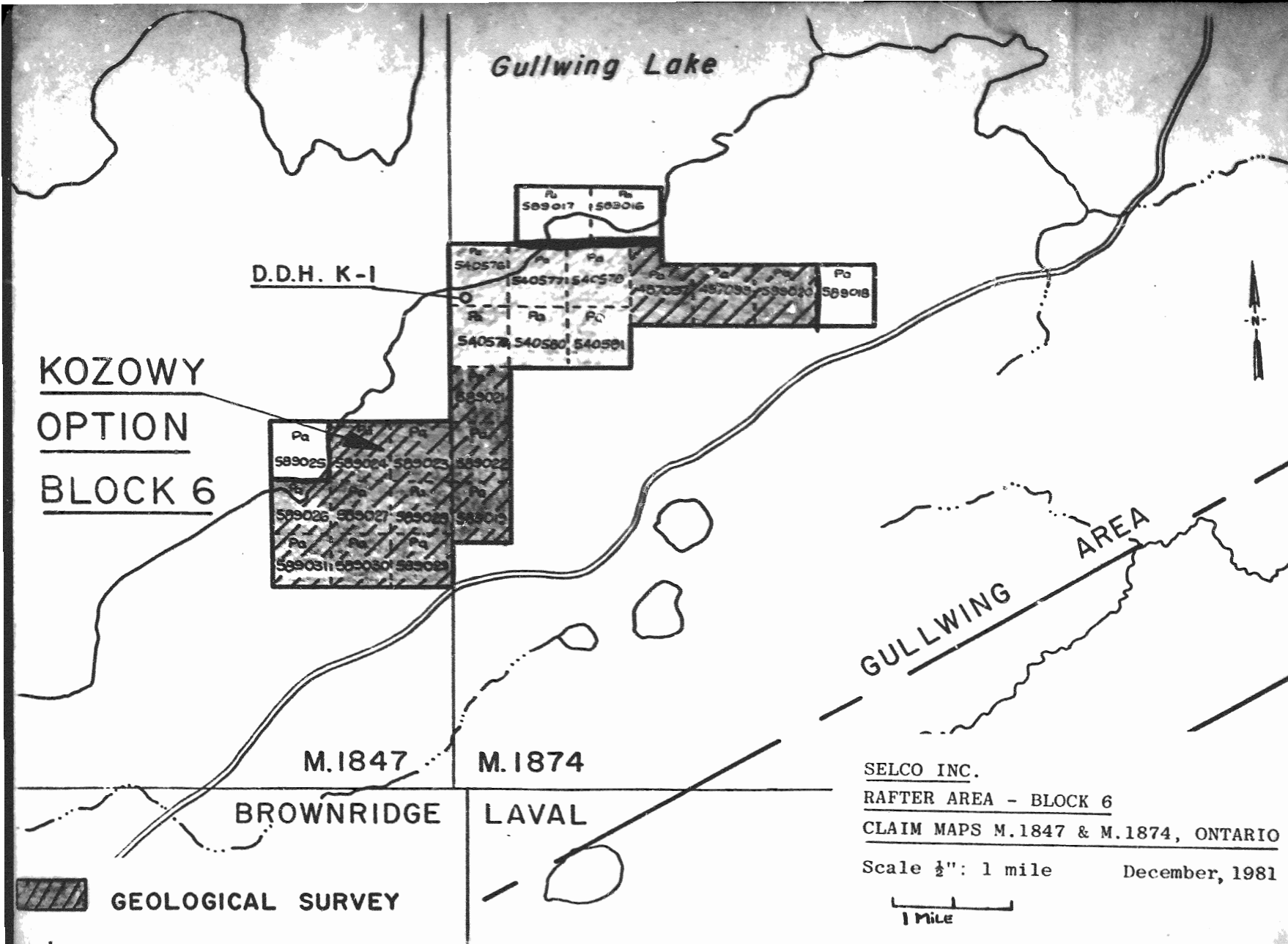
1. BREAKS et al 1978: Preliminary Geological Synthesis of the English River Subprovince, MP.72 O.G.S.

2. HARDING, W.D. 1950: Geology of the Gullwing Lake, Sunstrum area, Ontario Dept. of Mines Vol. LIX, Pt.IV.

3. PAGE,P.O. 1980: Geology of the Lateral Lake Area, Ontario Geological Survey, Preliminary maps P.2371 and P.2372.

4. SATTERLY, J. 1941: Geology of the Dryden Area, Ont. Geological Survey.

5. SPEED, A.A. and MAXWELL,G.J. 1979: Gullwing Lake Area, Ont. Geological Survey, data series maps P.2331 and P.2332.


Gullwing Lake
D.D.H. K-1
KOZOWY
OPTION
BLOCK 6
GULLWING AREA
M.1847
M.1874
BROWNRIDGE
LAVAL
GEOLOGICAL SURVEY
SELCO INC.
RAFTER AREA - BLOCK 6
CLAIM MAPS M.1847 & M.1874, ONTARIO
Scale ½": 1 mile
December, 1981
1 Mile

File Rafter - 6

Ontario

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

RECEIVED
DEC 17 1981
MINING LANDS SECTION

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.

Type of Survey(s) Geological

Township or Area M1847 & M1874

Claim Holder(s) Selco Inc.
55 University Ave., Toronto, Ont.

Survey Company Selco Inc.

Author of Report F. Breaks/T. Pryslak

Address of Author 534 Berry Street, Winnipeg.,Ont.

Covering Dates of Survey July 15 - Oct. 20, 1981
(linecutting to office)

Total Miles of Line Cut

SPECIAL PROVISIONS CREDITS REQUESTED

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

ENTER 20 days for each additional survey using same grid.

	DAYS per claim
Geophysical	
–Electromagnetic	
–Magnetometer	
–Radiometric	
–Other	
Geological	40
Geochemical	

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

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

DATE: Dec 17.81 SIGNATURE: J E Breaks
Author of Report or Agent

23416

Res. Geol. _____ Qualifications 2.3416

Previous Surveys

File No.	Type	Date	Claim Holder

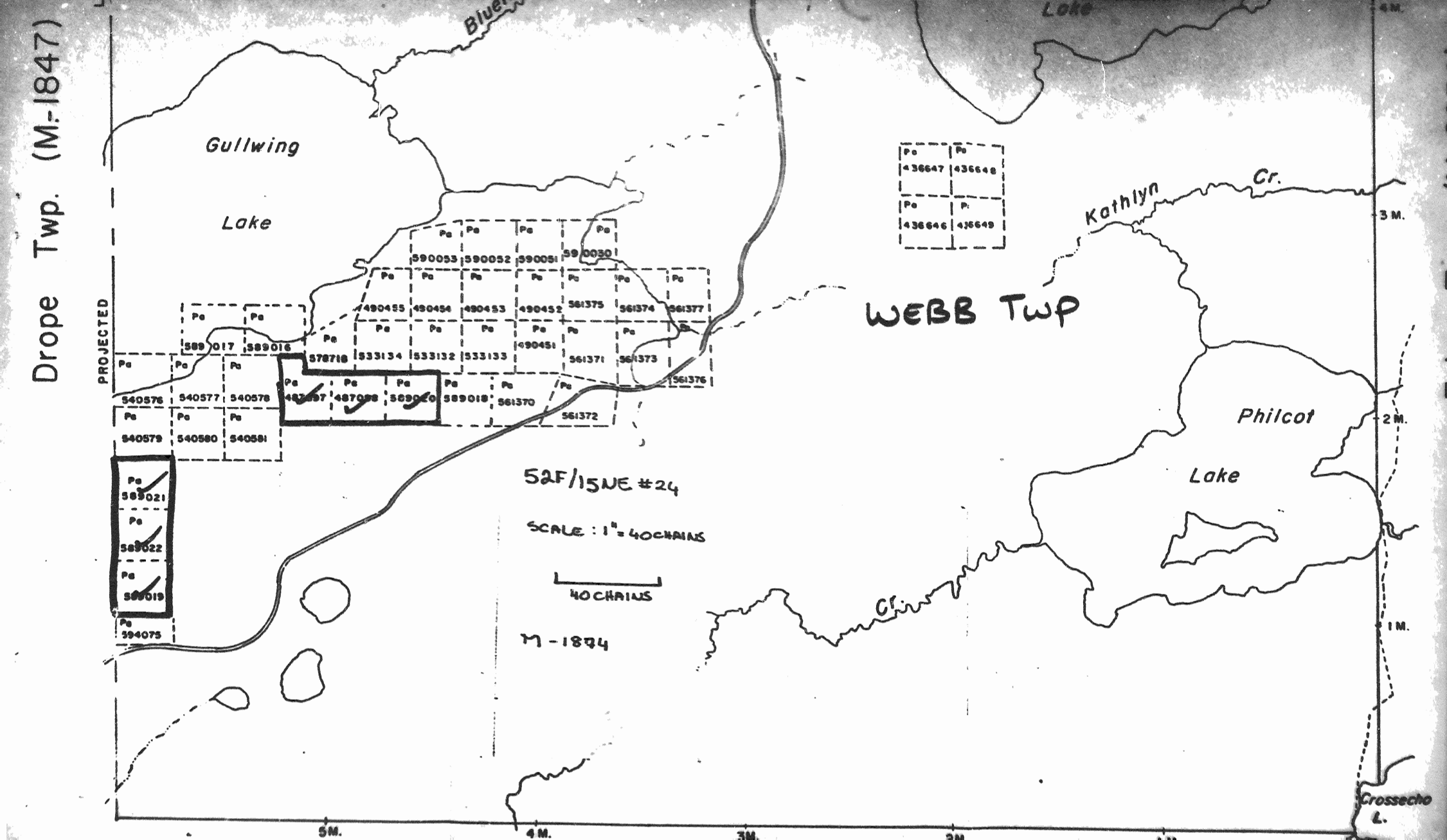
MINING CLAIMS TRAVERSED
List numerically

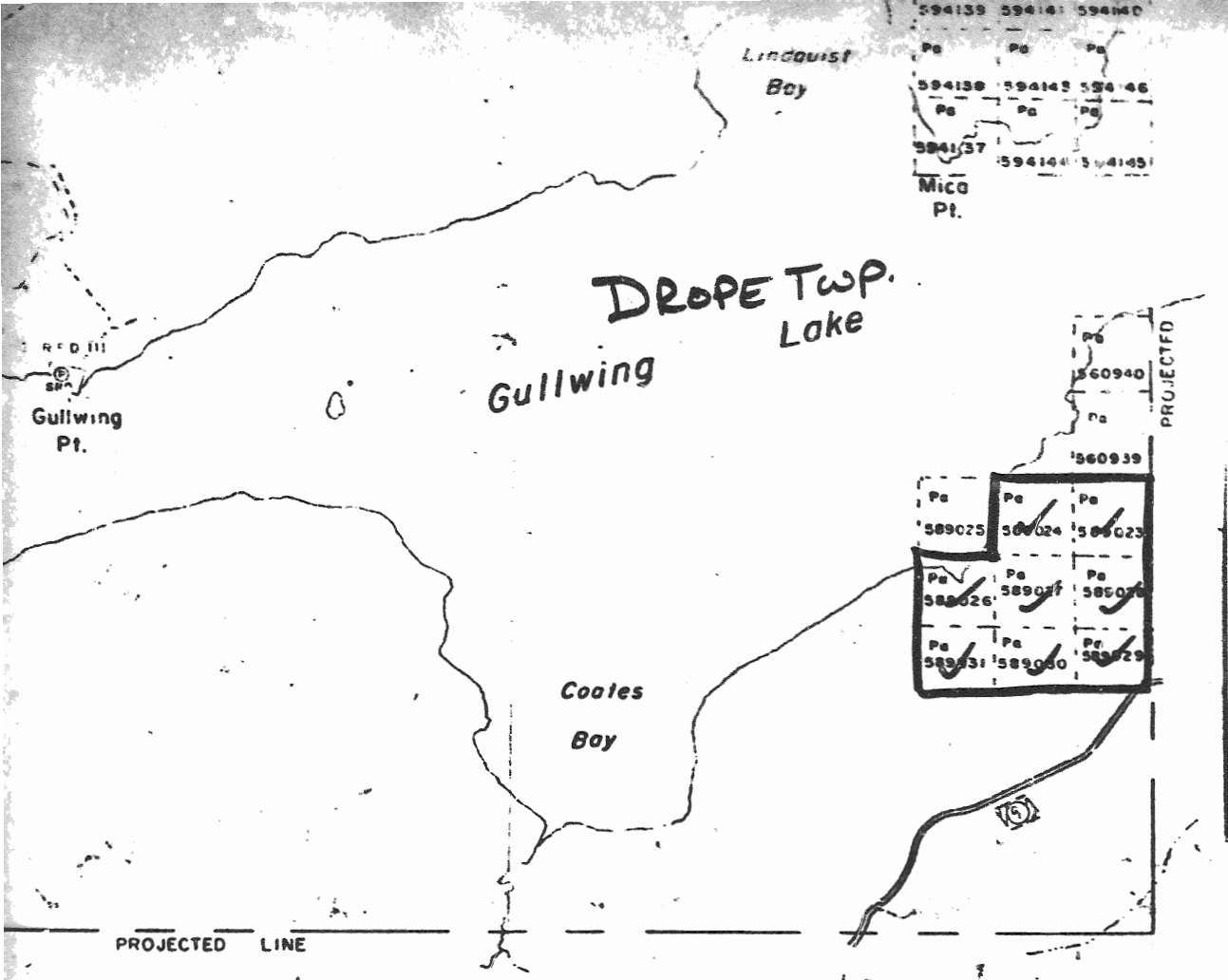
(prefix)	(number)
Pa	487097
Pa	487098
Pa	589020
Pa	589021
Pa	589022
Pa	589023
Pa	589024
Pa	589025
Pa	589026
Pa	589027
Pa	589028
Pa	589029
Pa	589030
Pa	589031

TOTAL CLAIMS 14

If space insufficient, attach list

TECHNICAL DATA


Drope Twp. (M-1847)
Gullwing
Lake
Blue
Lake
Kathlyn Cr.
WEBB TWP
Philcot
Lake
Cr.
PROJECTED
52F/15NE #24
SCALE : 1" = 40 CHAINS
40 CHAINS
M-1874
Crossecho L.
5M.
4M.
3M.
2M.
1M.
Pa 436647
Pa 436648
Pa 436646
Pa 436649
Pa 590053
Pa 590052
Pa 590051
Pa 590050
Pa 490455
Pa 490454
Pa 490453
Pa 490452
Pa 561375
Pa 561374
Pa 561377
Pa 589017
Pa 589016
Pa 578718
Pa 533134
Pa 533132
Pa 533133
Pa 490451
Pa 561371
Pa 561373
Pa 561376
Pa 540576
Pa 540577
Pa 540578
Pa 487097
Pa 487098
Pa 589020
Pa 589018
Pa 561370
Pa 561372
Pa 540579
Pa 540580
Pa 540581
Pa 589021
Pa 589022
Pa 589019
Pa 594075



nridge Twp. (M-1954)

MINES CANCELLED

NOTES

400' Surface Rights Reservation around all Lakes and Rivers.

SAND and GRAVEL

(Q) M.N.R. GRAVEL RESERVE 1A28

52F/15NE#24

SCALE : 1" = 40 chains

40 chains

M-1847

DATE OF ISSUE
AUG 20 1982
Ministry of Natural Resources
TORONTO

2.4422

PLAN NO. M. 1847

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

File 2.4422

Recorded Holder
Selco Inc.

Township or Area
Webb and Drope Township

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical	PA 487097 to 98 PA 589019 to 24, inclusive PA 589026 to 31, inclusive
Electromagnetic _____ days	
Magnetometer _____ days	
Radiometric _____ days	
Induced polarization _____ days	
Section 86 (18) _____ days	
Geological 40 days	
Geochemical _____ days	
Man days ☐ Airborne ☐	
Special provision ☒ Ground ☒	
☐ Credits have been reduced because of partial coverage of claims.	
☐ Credits have been reduced because of corrections to work dates and figures of applicant.	

Special credits under section 86 (15a) for the following mining claims

No credits have been allowed for the following mining claims

☐ not sufficiently covered by the survey ☐ Insufficient technical data filed

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 86(18)-60.

Ontario

Ministry of Natural Resources

Notification of recording of assessment work credits

Supervisor, Projects Unit
Mining Lands Section
Ministry of Natural Resources
Room 1617, Whitney Block
Queen's Park, Toronto
M7A 1W3

Date of recording of work: October 22, 1981

Recorded holder: Selco Inc.

Address: Ste. 1700 - 55 University Ave., Toronto, Ont. M5J 2H7

Township or Area: Webb Twp. ; 1874 - Drope Twp. M-1847

Type of survey and number of Assessment days credit per claim	Mining claims
Geophysical	RECEIVED MAR - 9 1982 MINING LANDS SECTION
Electromagnetic ____ days	
Magnetometer ____ days	
Radiometric ____ days	
Induced polarization ____ days	
Section 86 (18) ____ days	
Geological 40 days	Pa. 487097 & 98 Pa. 589019-24 incl. Pa. 589026-31 incl.
Geochemical ____ days	
Man days ☐ Airborne ☐	
Special provision ☐ Ground ☒	

Notice to recorded holder:

☒ **Survey reports and maps** in duplicate must be submitted to the Projects Unit, Toronto within 60 days from the date of recording of this work.

☐ **Reports and maps are being forwarded to the Projects Unit with this letter.**

Mining recorder

c.c. Selco Inc.-Toronto
T.Pryslak-Wpg.
#81-118

Ontario Natural Resources

Report Approval

2.4422

Mining Lands Comments

L.D

☐ To: Geophysics

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☑ To: Geology - Expenditures Ms Kustra

Comments

☑ Approved ☐ Wish to see again with corrections | Date June 6, 82 | Signature E Kustra

☐ To: Geochemistry June 16/82 Kustra

Comments

☐ Approved ☐ Wish to see again with corrections | Date | Signature

☐ To: Mining Lands Section, Room 6462, Whitney Block. (Tel: 5-1380)

SELCO INC.

55 University Avenue Suite 1700
Toronto Ontario M5J 2H7 Telephone: (416) 361 0794
Telex: 0[illegible]2537 Cable: Selcoex Toronto

December 17, 1981

Ministry of Natural Resources
Mining Lands Section
Room 6450, Whitney Block
Queen's Park
Toronto, Ontario

Dear Sir,

RE: RAFTER PROJECT-PROPERTY 6-M.1847 & 1874

Further to our Report of Work (October 19, 1981) please find enclosed the following:-

CONTENT

(in duplicate)

Geological Report
Location Sketch
Drawings No. RA.3361 & 3362

Yours very truly,

SELCO INC.

J.E. Rackley
Claims Control Co-ordinator

JER/rt
Encl.

January 13, 1982 2.4422

Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
P0V 2T0

Dear Sir:

We have received reports and maps for a Geological Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims Pa.487097 et al, in the Townships of Drope and Webb.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours very truly,

E.F. Anderson
Director
Land Management Branch

Whitney Block, Room 6450
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: 416/965-1380

J. Skura/bk

cc: Selco Inc.
Toronto, Ontario
Attention: J.E. Rackley

cc: F. Breaks/T. Pryslak
Winnipeg, Manitoba

2.4422

2.4422

September 1, 1982

Mr. Albert Hanson
Mining Recorder
Ministry of Natural Resources
P.O. Box 669
Sioux Lookout, Ontario
P0V 2T0

Dear Mr. Hanson:

Re: Geological Survey on Mining Claims PA 487097 et al, in the Townships of Webb and Drope

The Geological Survey assessment work credits as shown on the attached statement have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours very truly,

E. F. Anderson
Director
Land Management Branch

Whitney Block, Room 6540
Queen's Park
Toronto, Ontario
M7A 1W3
Telephone: (416) 965-1380

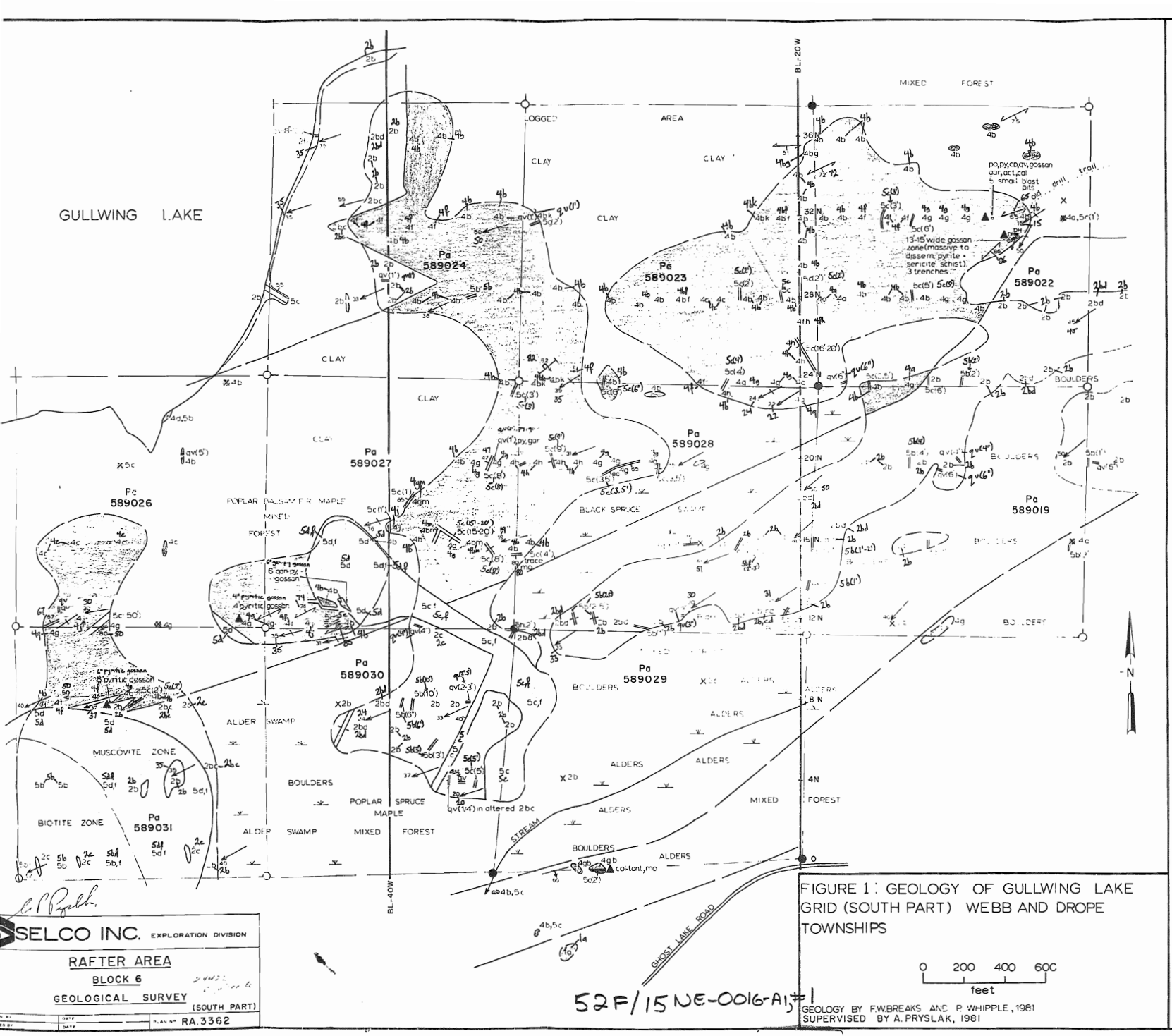
/las

Encl.

cc Selco-Inc.

cc T. Pryslak

cc Resident Geologist
Sioux Lookout



LEGEND

1 | 1 | MAFIC METAVOLCANICS
- 1a UNSUBDIVIDED

2 | 2 | INTERMEDIATE METAVOLCANICS
- 2a UNSUBDIVIDED
- 2b PYROCLASTIC BRECCIA, TUFF BRECCIA
- 2c TUFF, LAPILLI TUFF
- 2d EPIDOTIZED

4 | 4 | CLASTIC METASEDIMENTS
- 4a UNSUBDIVIDED
- 4b BIOTITE, GARNET-BIOTITE, MUSCOVITE-BIOTITE METAWACKE
- 4c FELDSPATHIC METAWACKE
- 4d QUARTZ METAWACKE
- 4f LITHIC METAWACKE
- 4g MUSCOVITE-BIOTITE±GARNET METAMUDSTONE
- 4h AMPHIBOLE-GARNET-BIOTITE METAMUDSTONE
- 4j LITHIC METAMUDSTONE
- 4k CROSS BEDDED
- 4m CHLORITIZED

5 | 5 | FELSIC TO INTERMEDIATE INTRUSIVE ROCKS
- 5a UNSUBDIVIDED
- 5b GARNET-BIOTITE PEGMATITE ± MUSCOVITE
- 5c GARNET-MUSCOVITE-BIOTITE PEGMATITE ± TOURMALINE
- 5d GARNET-MUSCOVITE PEGMATITE WITH PLUMOSE AGGREGATES OF QUARTZ-MUSCOVITE
- 5f APLITE
- 5g QUARTZ-FELDSPAR PORPHYRY
- 5h MAGNETITE-GARNET-BIOTITE PEGMATITE

OUTCROP AREA

SMALL OUTCROP

GEOLOGICAL CONTACT (OBSERVED; INTERPRETED)

FOLIATION (INCLINED; VERTICAL)

BEDDING (INCLINED WITH FACING DIRECTION; VERTICAL)

CROSSBEDDING

LINEATION (MINERAL; ELONGATION OF CLASTS)

DIAMOND DRILL HOLE (INCLINED; VERTICAL)

GRANITIC PEGMATITE DYKE (DIP KNOWN; VERTICAL; UNKNOWN)

SWAMP

MINERAL OCCURRENCE
- act 2c1 ACTINOLITE ACTINOLITE
- cal 2c1 CALCITE CALCITE
- col-tant 2c4 PY COLUMBITE-TANTALITE MINERAL COLUMBITE TANTALITE SPECIES
- cp 2c5 CHALCOPYRITE CHALCOPYRITE
- gar 2c7 GARNET GARNET
- mc 2c1 MOLYBDENITE MOLYBDENITE
- po 2c1 PYRRHOTITE PYRRHOTITE
- py 2c1 PYRITE PYRITE
- qv 2c1 QUARTZ VEIN QUARTZ VEIN

1. WIDTHS OF PEGMATITE DYKES MAY BE EXAGGERATED FOR MAP REPRESENTATION. ACTUAL WIDTH, IF KNOWN IS PLOTTED IN BRACKETS FOLLOWING MAP CODE.

1. WIDTHS OF PEGMATITE DYKES MAY BE EXAGGERATED FOR MAP REPRESENTATION. ACTUAL WIDTH, IF KNOWN IS PLOTTED IN BRACKETS FOLLOWING MAP CODE

FIGURE 1: GEOLOGY OF GULLWING LAKE GRID (SOUTH PART) WEBB AND DROPE TOWNSHIPS

0 200 400 600 feet

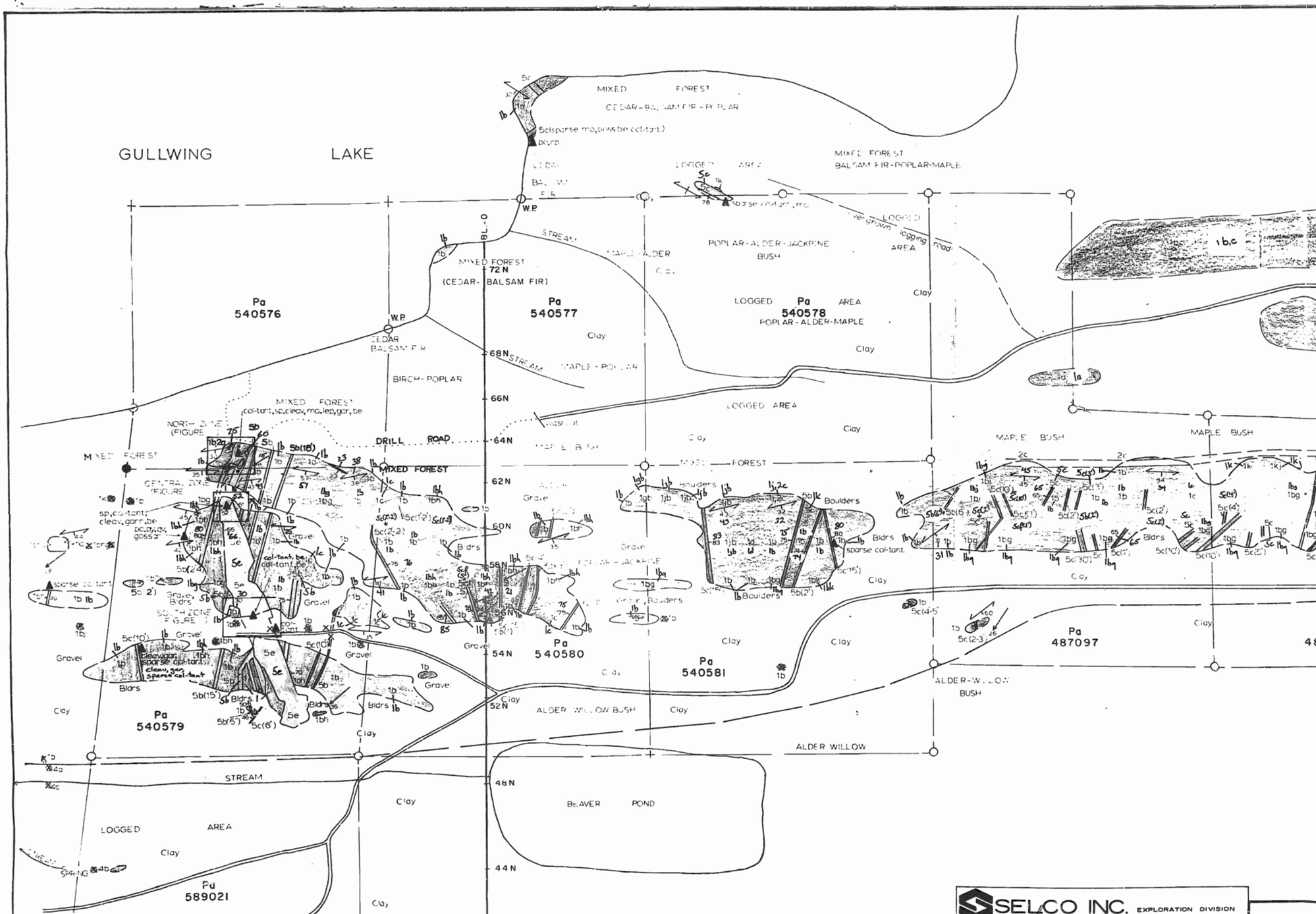
GEOLOGY BY F.W.BREAKS AND P. WHIPPLE, 1981
SUPERVISED BY A. PRYSLAK, 1981

SELCO INC. EXPLORATION DIVISION

RAFTER AREA
BLOCK 6
GEOLOGICAL SURVEY
(SOUTH PART)

PLAN N° RA.3362

52F/15NE-0016-A1;#1



SELCO INC. EXPLORATION DIVISION

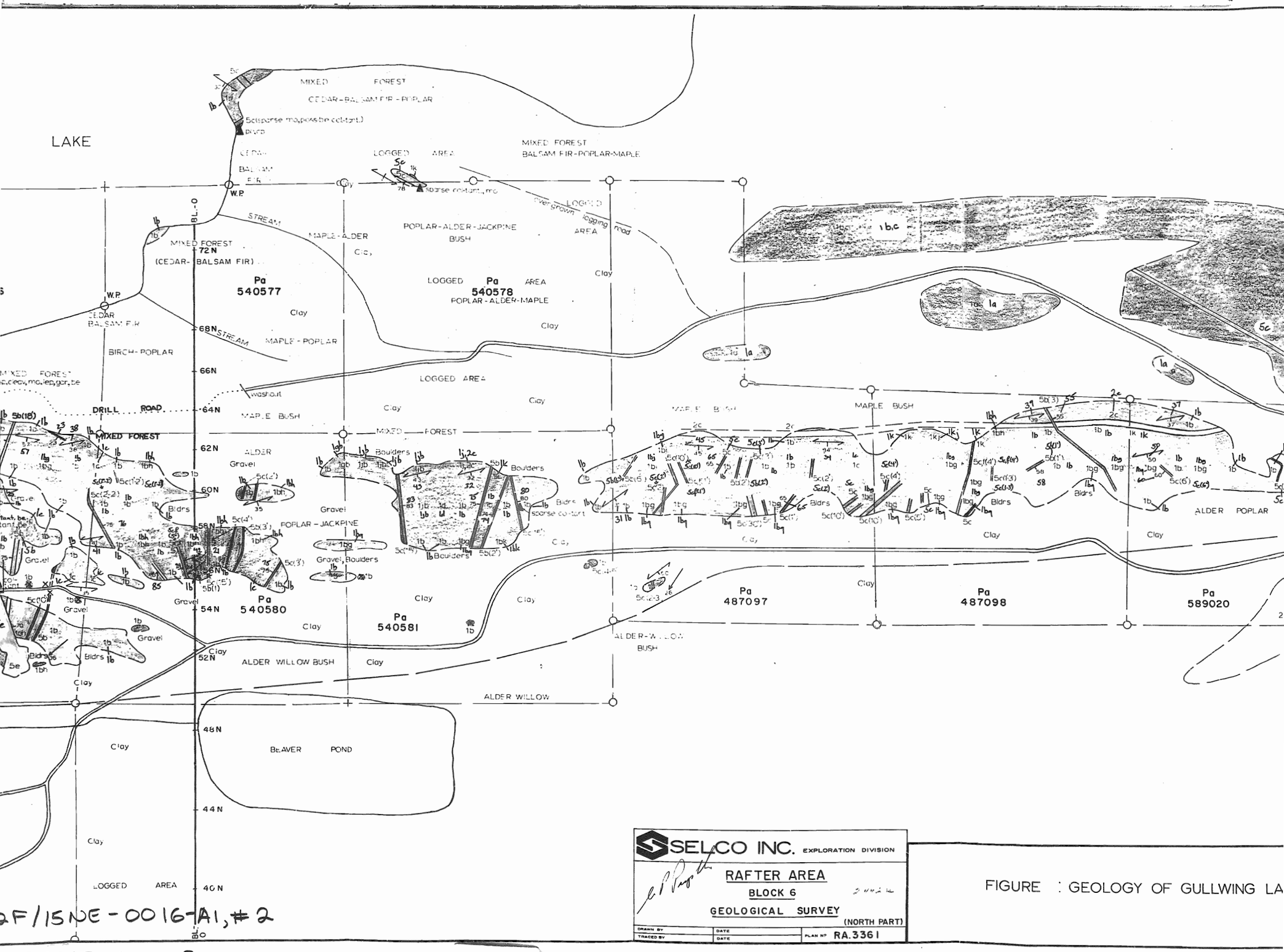
RAFTER AREA
BLOCK 6
GEOLOGICAL SURVEY
(NORTH PART)

DRAWN BY	DATE	PLAN Nº RA.3361
TRACED BY	DATE	

52F/15NE-0016-A1,#2

FRAME 1 OF 2

24X



SELCO INC. EXPLORATION DIVISION

RAFTER AREA
BLOCK 6
GEOLOGICAL SURVEY
(NORTH PART)

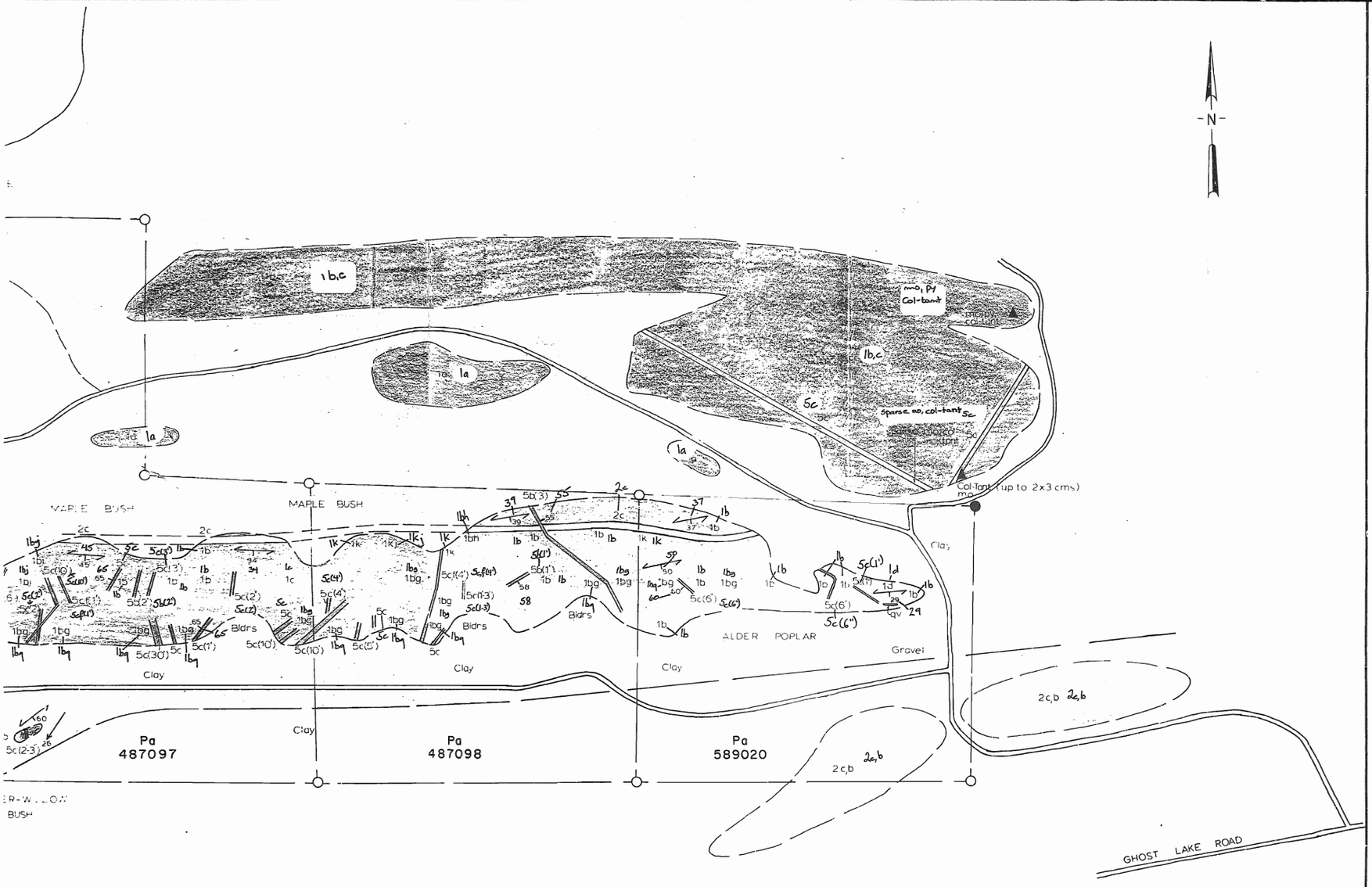
DRAWN BY	DATE	PLAN Nº RA.3361
TRACED BY	DATE	

FIGURE : GEOLOGY OF GULLWING LA

2F/15NE-0016-A1,#2

FRAME 1 OF 2

24X



52F/15 NE-0016-A1,#2

L

1 | 1 | MAFIC METAVOL
1a UNSUBDIVI
1b FINE TO
1c MEDIUM TO
1d PILLOWED
1g BIOTITE - BI
1n GARNET-BI
1j CHLORITE-
1k FOLIATE TO

2 | 2 | INTERMEDIATE
2a UNSUBDIVI
2b PYROCLAS
2c TUFF, LAP
TUFF, LAP

4 | 4 | CLASTIC METAS
4a UNSUBD
4b BIOTITE, G
BIOTITE, G

5 | 5 | FELSIC TO INTERM
5a UNSUBDIVID
5b GARNET-B
5c GARNET-M
5e MUSCOVITE
5f APLITE

OUTCROP ARE
SMALL OUTCR
GEOLOGICAL CO
GRANITIC PEGM
FOLIATION (INCL
MINERAL LINE
MINERAL OCC
be BERYL
cleav CLEAVELAN
col-tant COLUMBITE
cp CHALCOPYR
gar GARNET
lep LEPIDOLITE
mo MOLYBDEN
po PYRRHOTITE
py PYRITE
qv QUARTZ VE
sp SPODUMEN

1. WIDTHS OF PEGMATITE
PURPOSES ACTUAL IF KN

0 200
fee

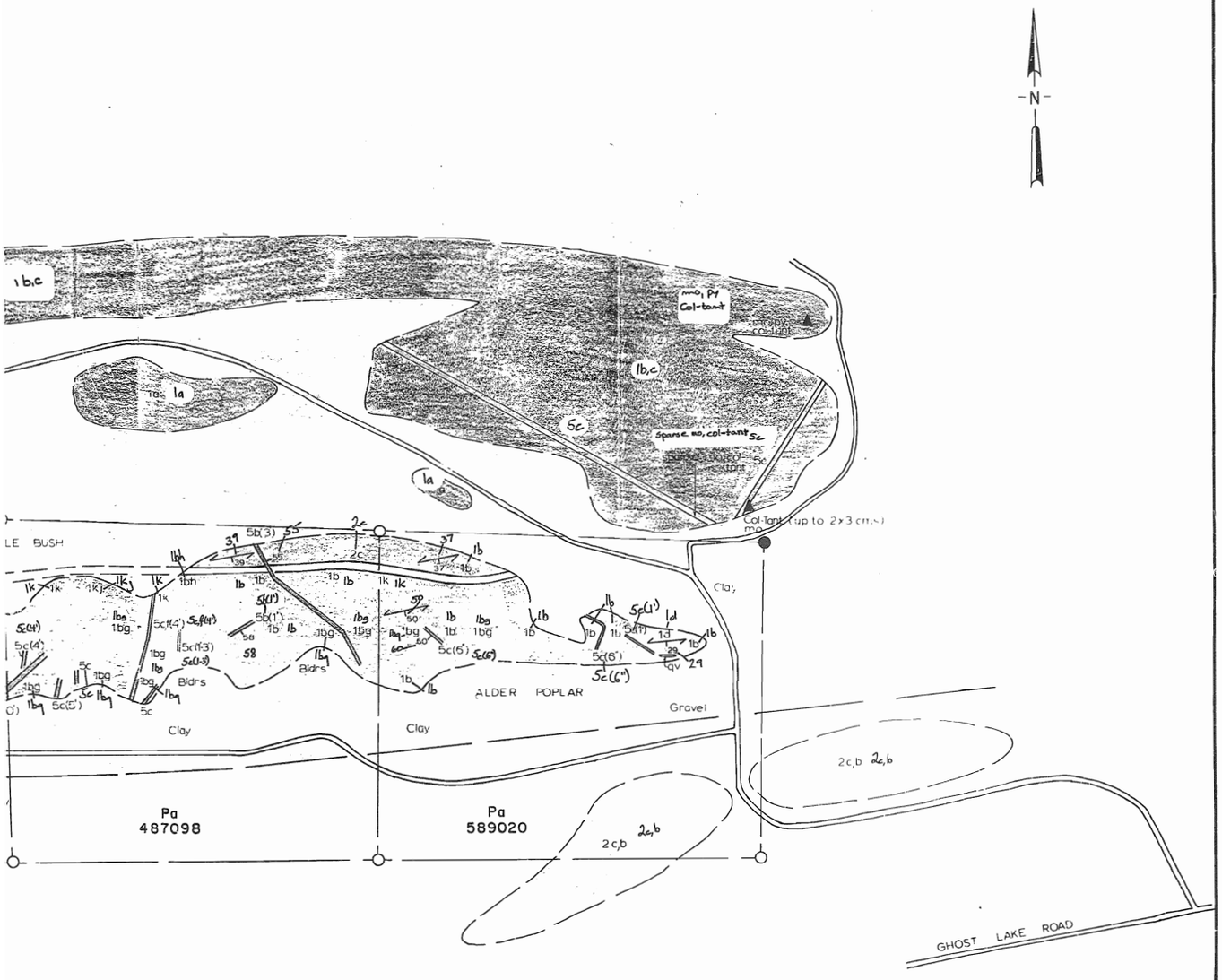
GEOLOGY BY F.W.BREAKS AND
SUPERVISED BY A.PRYSLA

SELCO INC. EXPLORATION DIVISION

RAFTER AREA
BLOCK 6
GEOLOGICAL SURVEY
(NORTH PART)

DRAWN BY | DATE
TRACED BY | DATE
PLAN Nº RA.3361

FIGURE : GEOLOGY OF GULLWING LAKE GRID(NORTH PART), WEBB TOWNSHIP



52F/15 NE-0016-A1,#2

LEGEND

1 **1** MAFIC METAVOLCANICS
- 1a UNSUBDIVIDED
- 1b FINE TO MEDIUM GRAINED DERIVED AMPHIBOLITES
- 1c MEDIUM TO COARSE GRAINED FLOWS DERIVED AMPHIBOLITES
- 1d PILLOWED FLOWS
- 1g BIOTITE-BEARING
- 1h GARNET-BEARING
- 1j CHLORITE-BEARING
- 1k FOLIATE TO GNEISSIC

2 **2** INTERMEDIATE METAVOLCANICS
- 2a UNSUBDIVIDED UNSUBDIVIDED
- 2b PYROCLASTIC BRECCIA, TUFF BRECCIA PYROCLASTIC BRECCIA TUFF BRECCIA
- 2c TUFF, LAPILLI TUFF TUFF, LAPILLI TUFF

4 **4** CLASTIC METASEDIMENTS
- 4a 4a UNSUBDIVIDED UNSUBDIVIDED
- 4b 4b BIOTITE, GARNET-BIOTITE, MUSCOVITE-BIOTITE WACKE BIOTITE, GARNET-BIOTITE, MUSCOVITE-BIOTITE WACKE

5 **5** FELSIC TO INTERMEDIATE INTRUSIVE ROCKS[1]
- 5a UNSUBDIVIDED
- 5b GARNET-BIOTITE PEGMATITE ± MUSCOVITE
- 5c GARNET-MUSCOVITE PEGMATITE ± BIOTITE ± TOURMALINE
- 5e MUSCOVITE-BIOTITE PEGMATITE ± TOURMALINE ± BERYL
- 5f APLITE

OUTCROP AREA

SMALL OUTCROP

GEOLOGICAL CONTACT (OBSERVED; INTERPRETED)

GRANITIC PEGMATITE DYKE (DIP KNOWN, VERTICAL, UNKNOWN)

FOLIATION (INCLINED, VERTICAL)

MINERAL LINEATION WITH PLUNGE

MINERAL OCCURRENCE
- be BERYL
- cleav CLEAVELANDITE
- col-tant COLUMBITE-TANTALITE SERIES
- cp CHALCOPYRITE
- gar GARNET
- lep LEPIDOLITE
- mo MOLYBDENITE
- po PYRRHOTITE
- py PYRITE
- qv QUARTZ VEIN
- sp SPODUMENE

1. WIDTHS OF PEGMATITE DYKES MAY BE EXAGGERATED FOR MAP REPRESENTATION PURPOSES ACTUAL WIDTH, IF KNOWN, IS PLACED IN BRACKETS FOLLOWING MAP CODE

0 200 400 600
feet

GEOLOGY BY F.W. BREAKS AND P. WHIPPLE, 1981
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FIGURE : GEOLOGY OF GULLWING LAKE GRID (NORTH PART), WEBB TOWNSHIP