



CASSELS - STRATHY CLAIM BLOCK

GEOLOGICAL REPORT

INTRODUCTION

This report presents the results of a detailed geological program on 45 claims in southeastern Strathy and southwestern to central Cassels townships, Sudbury Mining Division. An average of four employees of the Canadian Nickel Company were employed under the direction of R. A. Bennett MSc. whose permanent address is Canadian Nickel Company Limited, Copper Cliff, Ontario. A summary of the exploration work completed to date is tabulated below:

- Oct. 16, 1973 - Mining claims recorded.
- Mar. 12 to Apr. 5, 1974 - Line cutting & partial geophysical survey.
- May 13 to July 14, 1974 - Line cutting & geological mapping.
- Aug. 23 to Sept. 30, 1974 - Line cutting & geological mapping.

The claims covered by this report are listed below and are owned by the Canadian Nickel Company Limited.

- L 374⁷141 - 374⁷160 inclusive
- L 374865 & 866
- L 374869 - 872 inclusive
- L 374876 - 374891 inclusive
- L 374893 - 374895 inclusive

The purpose of this survey was to outline the location of favourable geological environments for volcanogenic copper-zinc sulphides. The claims were traversed at a maximum of 400 feet intervals using cut grid lines for control. The geological, topographical and cultural data were plotted on a 1 inch to 200 feet scale map (in pocket).

LOCATION & ACCESS

The claims lie approximately 1 mile through 5 miles northeast from the town of Temagami (see Location Map). Access to the claims in summer is by bush road from Temagami, and in winter is by snowmobile from Goward, southeast across Net Lake.

R.A. BENNETT
OCTOBER 1974

GEOLOGY

General

Bedrock exposures represent approximately 25 percent of the surface area of the claim block and consist mainly of a complex accumulation of Precambrian metavolcanics that are unconformably overlain by younger clastic sediments and intruded by lesser mafic dykes and a large diabasic sheet. The volcanic units strike approximately east-north-east and are near vertically dipping with tops indicated to the south. Syndepositional and later tectonism have riddled the area with faults, shears, and joints, further complicating the stratigraphy. The geologic column as observed on the claim block is summarized overleaf.

Nipissing Diabase Sheet

Nipissing diabase (1) is exposed only in the western portions of the claim block. This large diabase sheet, which in places becomes gabbroic to dioritic is medium to coarse grained, relatively unaltered, contains plagioclase, amphibole, chlorite and minor quartz and generally exhibits ophitic texture. Minor pyrite specks were noted in the diabase.

Huronian Sediments

The Cobalt group (Gowganda fm) (2) sediments lie unconformably over the Archean metavolcanics in the southern, western and far northern portions of the claim block. The basal member is generally a feldspathic quartzite to greywacke that grades upward into a coarse polymictic conglomerate. Boulders up to 5 feet in diameter were noted.

In claim 374891, a thick sequence of finely laminated and contorted varved argillaceous siltstone is exposed. Minor disseminated chalcopyrite and sphalerite were observed in this unit.

TABLE OF FORMATIONS

CENOZOIC

Pleistocene and Recent
Till, sand and gravel

PRECAMBRIAN

PROTEROZOIC

- 1 KEWEENAWAN
Nipissing - qtz. bearing diorite-gabbro-diabase
- 2 HURONIAN
Cobalt Group (Gowganda fm)
a) greywacke b) siltstone c) conglomerate

ARCHEAN

- 3 MINOR MAFIC DYKES - andesite to diabase
- METAVOLCANICS
- 4 BASALT - massive to pillowed
- 5 DACITIC LAPILLI-TUFF - BRECCIA
- 6 ANDESITE - massive to sheared, pillowed
- 7 RHYODACITIC FLOW BRECCIA - AGGLOMERATE
- 8 ANDESITE - sheared to massive
- 9 QUARTZ - FELDSPAR CRYSTAL TUFF
- 10 ANDESITE - massive and sheared
- 11 RHYODACITE to DACITE - amygdular flow
- 12 RHYODACITE LAPILLI TUFF - breccia
- 13 RHYOLITE - massive, amygdular
- 14 ANDESITE & BASALT - massive to pillowed

The paleoslope of the Cobalt sediments was observed to be dipping gently to the south.

Minor Mafic Dykes (Archean?)

Several narrow, vertically dipping diabasic to andesitic dykes (3) were noted in the map area. These fine grained to medium grained dykes cut the volcanic units in a north-north-westerly direction. The dykes terminate at the Cobalt Group contact, thus pre-dating the Huronian. Minor pyrite mineralization occur close to the contact between these dykes and the volcanics.

Archean Metavolcanics

The volcanics range from mafic basalt through rhyolite and are characteristically highly calcic, chloritic and variably sheared.

Felsic Volcanics

The felsic volcanics and volcanoclastics show a great variety of types and are characterized by rapid lithologic changes over relatively short stratigraphic intervals. The lower most unit is a massive, aphanitic, amygdular quartz-eye rhyolite flow (13) that in places becomes quite chloritic and calcic. Overlying this unit is a lapilli tuff-breccia of rhyodacite composition (12), that contains small white to pink pyroclasts (0.02 to 3.0 cm) in a light grey, aphanitic matrix. These units are terminated on the west by faulting. Minor disseminated chalcopyrite and sphalerite with pyrite were observed in several localities within the tuff-breccia.

A light grey to medium grey massive amygdular quartz-eye rhyodacite to dacite flow (11) overlies the tuff-breccia unit (12). This flow is variably chloritic, sericitic and calcic and contains isolated specks of pyrite and pyrrhotite.

Fine to medium grained quartz-feldspar (plagioclase) crystal tuff (9) is exposed in the mid-central to western portions of the map area. This unit, along with an overlying massive andesite flow fall within a zone of intense east-west

shearing and thus have developed a high degree of schistosity. Minor sulphides (pyrite) were seen in this unit as well.

The last two felsic pyroclastic units (7 and 5) show extreme variability both vertically and along strike. From east to west these units vary from rhyodacite agglomerate (white to pink rhyolite pyroclasts to 9 inches in diameter in an altered chloritic matrix) to dacitic agglomerate-breccia (rhyodacitic fragments to 6" in diameter in a chloritic matrix) to a mixture of andesite-dacite-rhyodacite pyroclasts in a chloritic matrix with the introduction of some silt to greywacke units. Areas of mixing and rapid thickness and compositional changes are evident and likely due to syn-depositional tectonism such as slumping. Near Outlet Bay, these units contained minor pyrite-rich fragments. Elsewhere, only minor disseminated pyrite and pyrrhotite was seen.

Mafic Volcanics

The mafic volcanic units have been separated into two groups: Andesites (14, 10, 8, 6) and Basalts (4).

The andesites are generally massive, medium green, variably pillowed, amygdular flows. Locally, they are highly sheared and quite calcic and chloritic. Minor sulphides (pyrite, pyrrhotite, chalcopyrite) were observed along several shear and joint planes. Many of the flows exhibited flow top breccias.

The basalts are typically dark green, chloritic, fine to medium grained, massive to pillowed flows, variably amygdular. Only disseminated grains of pyrrhotite and pyrite were found to occur in the basalts.

Several of the mafic volcanics units appeared dioritic to diabasic due to their increased grain size. Invariably, these units became pillowed to the west. In places, even the pillows themselves were relatively coarse grained.

STRUCTURAL GEOLOGY

Initial airphoto interpretation and later field observations have indicated the claim area to be strongly faulted and sheared. Some of the faulting and shearing is likely due to the intrusion of the Strathy-Chambers granitic batholith immediately north of the claims, while the slumping, jointing and other shearing has been caused by syn-deposition tectonism associated with the volcanic center.

The schistosity, which in places is well developed, parallels the strike of the volcanic units. Where cross-cutting faults occur, narrow schistose zones parallel the faults.

The most pronounced structural break occurs along the N.E. shore of Outlet Bay. All the volcanic units along this fault are either off-set or terminated. Normal (vertical) with minor strike slip displacement is interpreted for this break. Several of the other cross-cutting faults are believed normal as well.

An extremely strong shear zone occurs through units 8 and 9 along Johnny Creek. It's displacement is unknown. Several lesser contact faults were observed and are believed to be associated with the volcanic activity. Slumping in the pyroclastic units evidenced by contorted bedding, rapid thickness changes and lithologic mixing was associated with the volcanic tectonism as well.

All topping criteria (pillows, graded bedding) in the map area indicate tops to the south. Pyroclastic size and compositional changes and pillow build-up suggest that the source of the volcanics lies to the east-north-east.

MINERALIZATION

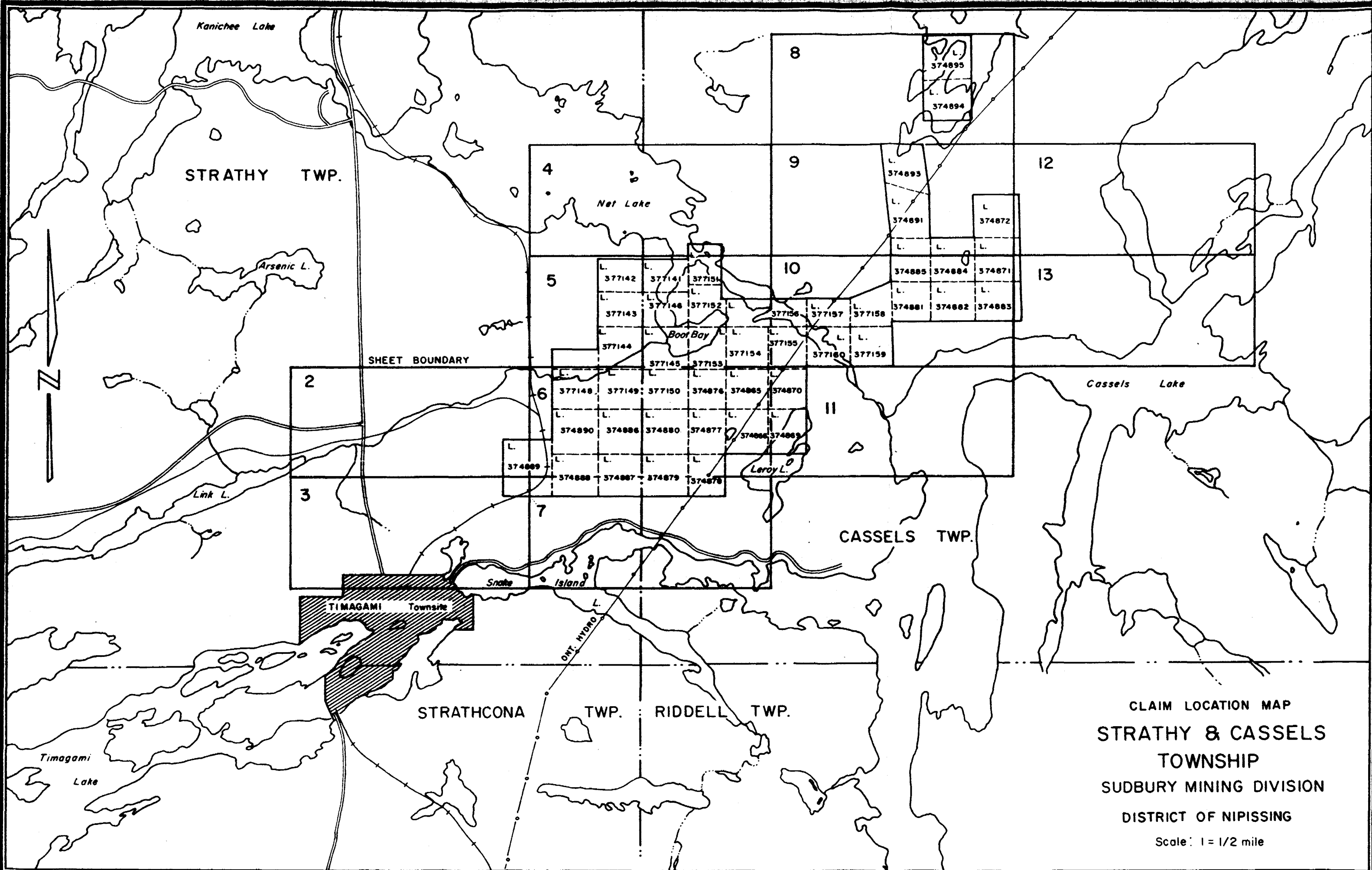
Every unit mapped on the claim block contains minor disseminated pyrite and/or pyrrhotite. A few units as already mentioned contain chalcopryite and sphalerite. The best mineralization occurs along the contact between units 13 (massive rhyolite) and 12 (tuff) at 46E, 49 + 50N. An old pit on the mineralized zone exposes weakly to heavily disseminated pyrite with minor pyrrhotite, chalcopryite and sphalerite. The zone is quite discontinuous and has a maximum width of 2 feet. Two other pits along this zone (200' to the east) contain similar, but

lesser mineralization. Another old pit at 98E, 35 + 20N exposes heavily disseminated pyrite along a shear zone. Several other pits were investigated throughout the claims, but no significant mineralization was found.

CONCLUSIONS

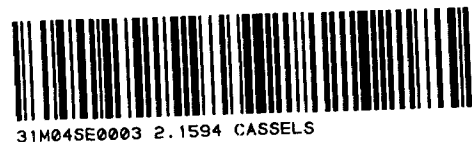
This geological survey has outlined a favourable environment for the occurrence of volcanogenic copper-zinc sulphides. The results of the program have aided in determining what further work is necessary to test for Cu-Zn mineralization.

R. A. Burns



CLAIM LOCATION MAP
 STRATHY & CASSELS
 TOWNSHIP
 SUDBURY MINING DIVISION
 DISTRICT OF NIPISSING
 Scale: 1 = 1/2 mile

GEOPHYSICAL - GEOLOGIC
TECHNICAL DATA



900

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

Type of Survey Geological
Township or Area Strathy-Cassels Twps.
Claim holder(s) Canadian Nickel Company Limited
Copper Cliff, Ontario
Author of Report R. A. Bennett
Address c/o Canico, Copper Cliff, Ontario
Covering Dates of Survey March 12, 1974 to October 10,
(linecutting to office) 1974
Total Miles of Line cut 34.0 miles

MINING CLAIMS TRAVERSED
List numerically

See attached schedule 'A'
(prefix) (number)

<u>SPECIAL PROVISIONS</u> <u>CREDITS REQUESTED</u>	DAYS per claim
ENTER 40 days (includes line cutting) for first survey.	Geophysical -Electromagnetic -Magnetometer -Radiometric -Other
ENTER 20 days for each additional survey using same grid.	Geological <u>40</u> Geochemical

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)
Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: October 10/74 SIGNATURE: P. A. Bennett
Author of Report or Agent

PROJECTS SECTION
Res. Geol. _____ Qualifications NTL
on this file (New)

Previous Surveys 2.343 (EM) done in 1970-71
63G.8 Geochemical
Checked by 63.1764 Aiz date _____

63.719 Geophysical
GEOLOGICAL BRANCH
63A.427 Geological done in 1964

Approved by _____ (covers only a few mining claim on present survey)
GEOLOGICAL BRANCH 63.185 Geophysical

Approved by LD date _____

TOTAL CLAIMS 45

OFFICE USE ONLY

If space insufficient, attach list

Show instrument technical data in each space for
type of survey submitted or indicate "not applicable"

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS

Number of Stations _____ Number of Readings _____

Station interval _____

Line spacing _____

Profile scale or Contour intervals _____
(specify for each type of survey)

MAGNETIC

Instrument _____

Accuracy - Scale constant _____

Diurnal correction method _____

Base station location _____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: Fixed transmitter Shoot back In line Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

Base station value and location _____

Elevation accuracy _____

INDUCED POLARIZATION - RESISTIVITY

Instrument _____

Time domain _____ Frequency domain _____

Frequency _____ Range _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

Corrections made _____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____
(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

Additional information (for understanding results) _____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____
(specify for each type of survey)

Accuracy _____
(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY - PROCEDURE RECORD

Numbers of claims from which samples taken _____

Total Number of Samples _____

Type of Sample _____
(Nature of Material)

Average Sample Weight _____

Method of Collection _____

Soil Horizon Sampled _____

Horizon Development _____

Sample Depth _____

Terrain _____

Drainage Development _____

Estimated Range of Overburden Thickness _____

SAMPLE PREPARATION

(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis _____

General _____

ANALYTICAL METHODS

Values expressed in: per cent
p. p. m.
p. p. b.

Cu, Pb, Zn, Ni, Co, Ag, Mo, As, (circle)

Others _____

Field Analysis (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Field Laboratory Analysis

No. (_____ tests)

Extraction Method _____

Analytical Method _____

Reagents Used _____

Commercial Laboratory (_____ tests)

Name of Laboratory _____

Extraction Method _____

Analytical Method _____

Reagents Used _____

General _____

SCHEDULE 'A'

L 374865	L 374885	L 377146
L 374866	L 374886	L 377147
L 374869	L 374887	L 377148
L 374870	L 374888	L 377149
L 374871	L 374889	L 377150
L 374872	L 374890	L 377151
L 374876	L 374891	L 377152
L 374877	L 374893	L 377153
L 374878	L 374894	L 377154
L 374879	L 374895	L 377155
L 374880	L 377141	L 377156
L 374881	L 377142	L 377157
L 374882	L 377143	L 377158
L 374883	L 377144	L 377159
L 374884	L 377145	L 377160

Total Claims : 45

October 10, 1974

Best Twp.M.417

THE TOWNSHIP OF 2.1594

CASSELS

DISTRICT OF NIPISSING

SUDBURY MINING DIVISION

SCALE: 1-INCH=40 CHAINS

LEGEND

- PATENTED LAND ● or (P)
- CROWN LAND SALE (C.S.)
- LEASES (L)
- LOCATED LAND (L.C.)
- LICENSE OF OCCUPATION (L.O.)
- MINING RIGHTS ONLY (M.R.O.)
- SURFACE RIGHTS ONLY (S.R.O.)
- ROADS (— — — — —)
- IMPROVED ROADS (— — — — —)
- KING'S HIGHWAYS (— — — — —)
- RAILWAYS (— — — — —)
- POWER LINES (— — — — —)
- MARSH OR MUSKEG (— — — — —)
- MINES (X)
- CANCELLED (C)

NOTES

400' Surface rights reservation around all lakes and rivers.

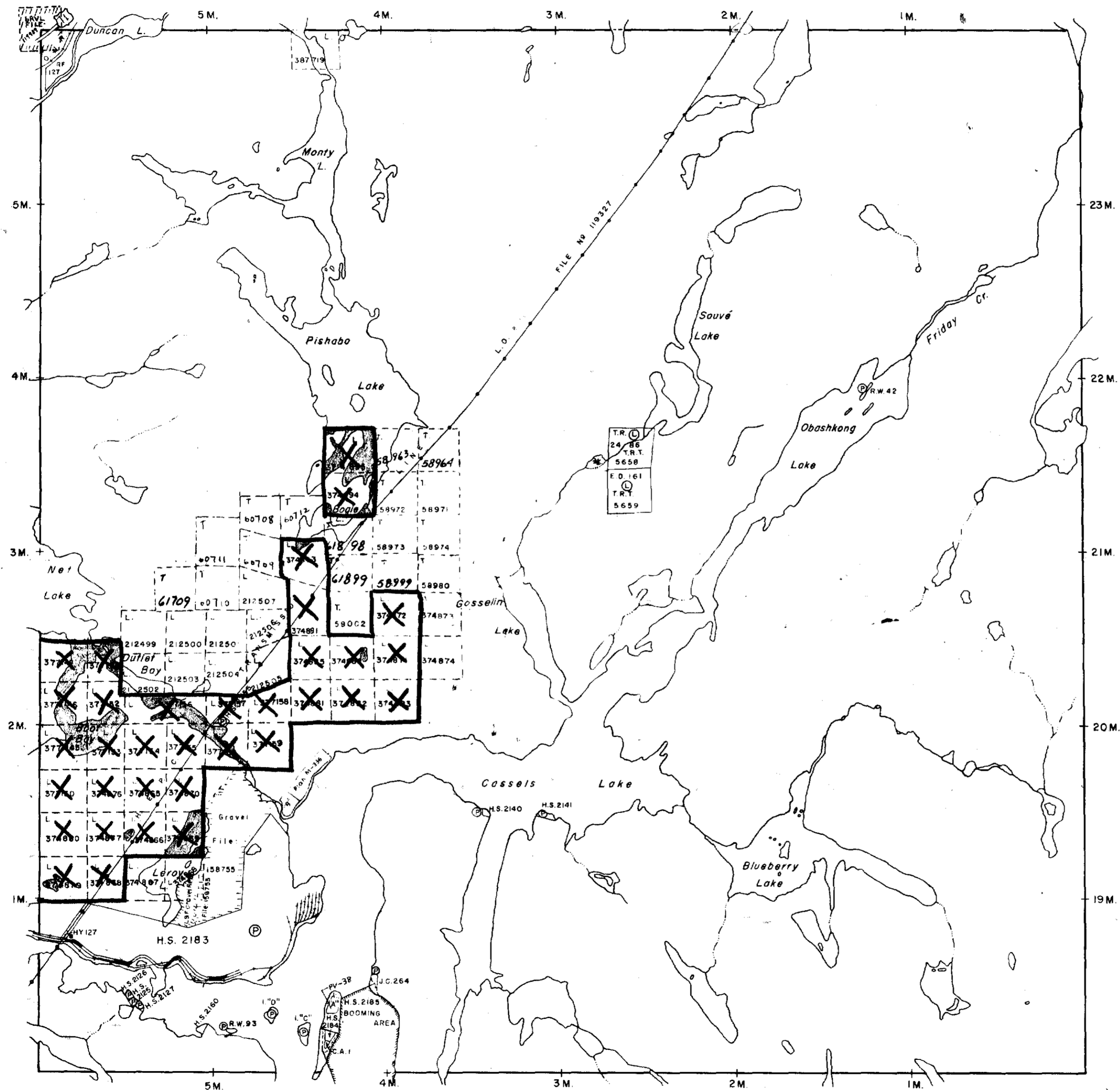
MINING LANDS
 DATE OF ISSUE
 OCT 17 1974
 MINISTRY OF NATURAL RESOURCES

PLAN NO. M-444

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

Strathy Twp.M.596

South Lorrain Twp.M.591



Riddell Twp.M.578



31M04SE0003 2.1594 CASSELS

NOTES

400' surface rights reservation along the shores of all lakes and rivers.

This Township lies within THE CORPORATION OF THE IMPROVEMENT DISTRICT OF TEMAGAMI. File 176049.

AREAS WITHDRAWN FROM STAKING

S.R. - SURFACE RIGHTS M.R.-MINING RIGHTS

Ⓜ S.R. within stippled portion east of Hwy.11 and north of the south shore of Net Lake reserved for TIMAGAMI TOWNSITE subject to Sec. 36(a) of Mining Act R.S.O.1960. OC 2022/66 File 3996

Section	Order No.	Date	Disposition	File
42 (R.S.O.1960)		MAY 13/65	S.R.&M.R.	119939
42 (R.S.O.1960)		JUNE 26/69	M.R.	3996

Islands in Lake Timagami NOT OPENED FOR STAKING.

SAND and GRAVEL

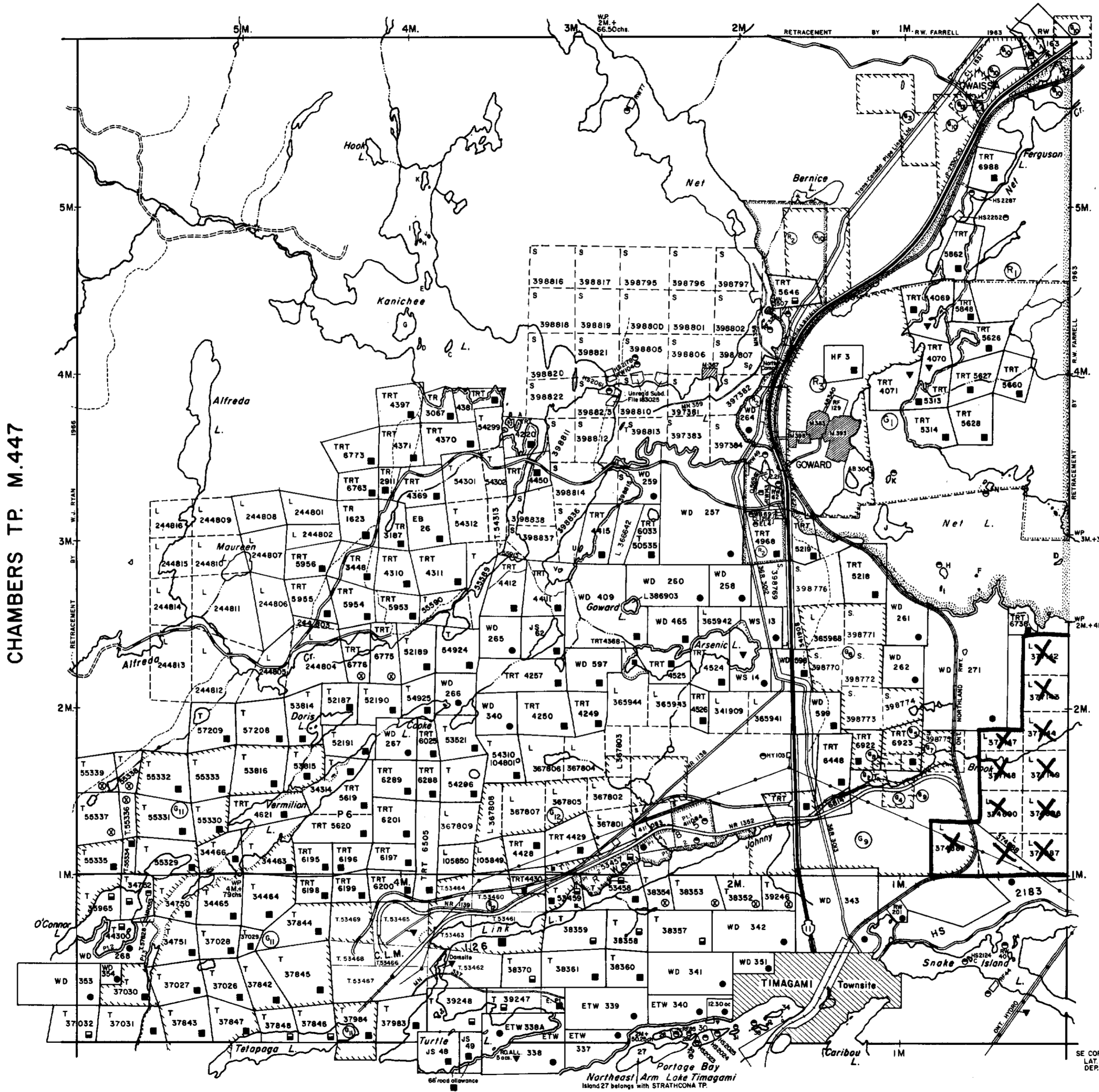
Ⓜ area shown thus the establishment of pits and quarries prohibited by Order of the Minister of Municipal Affairs (M.T.E.I.G.A.) O.Reg.20/68. File 3996

Ⓜ M.T.C. PIT 192	Ⓜ Gravel File 83958,98379
" " 1197	Gravel " 119939
" " 1743	
Ⓜ Gravel File 12796	
" " 113783	
" " 99683	
" " 119939	
" " 132830	

MINING LANDS
 DATE OF ISSUE
OCT 17 1974
 MINISTRY
 OF NATURAL RESOURCES



BEST TP. M.417

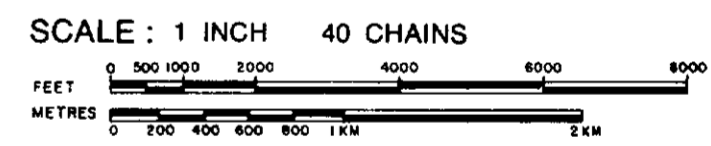


LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
.. SURFACE RIGHTS ONLY	○
.. MINING RIGHTS ONLY	◐
LEASE, SURFACE & MINING RIGHTS	■
.. SURFACE RIGHTS ONLY	◼
.. MINING RIGHTS ONLY	◑
LICENCE OF OCCUPATION	▼
CROWN LAND SALE	C.S.
ORDER-IN-COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊕



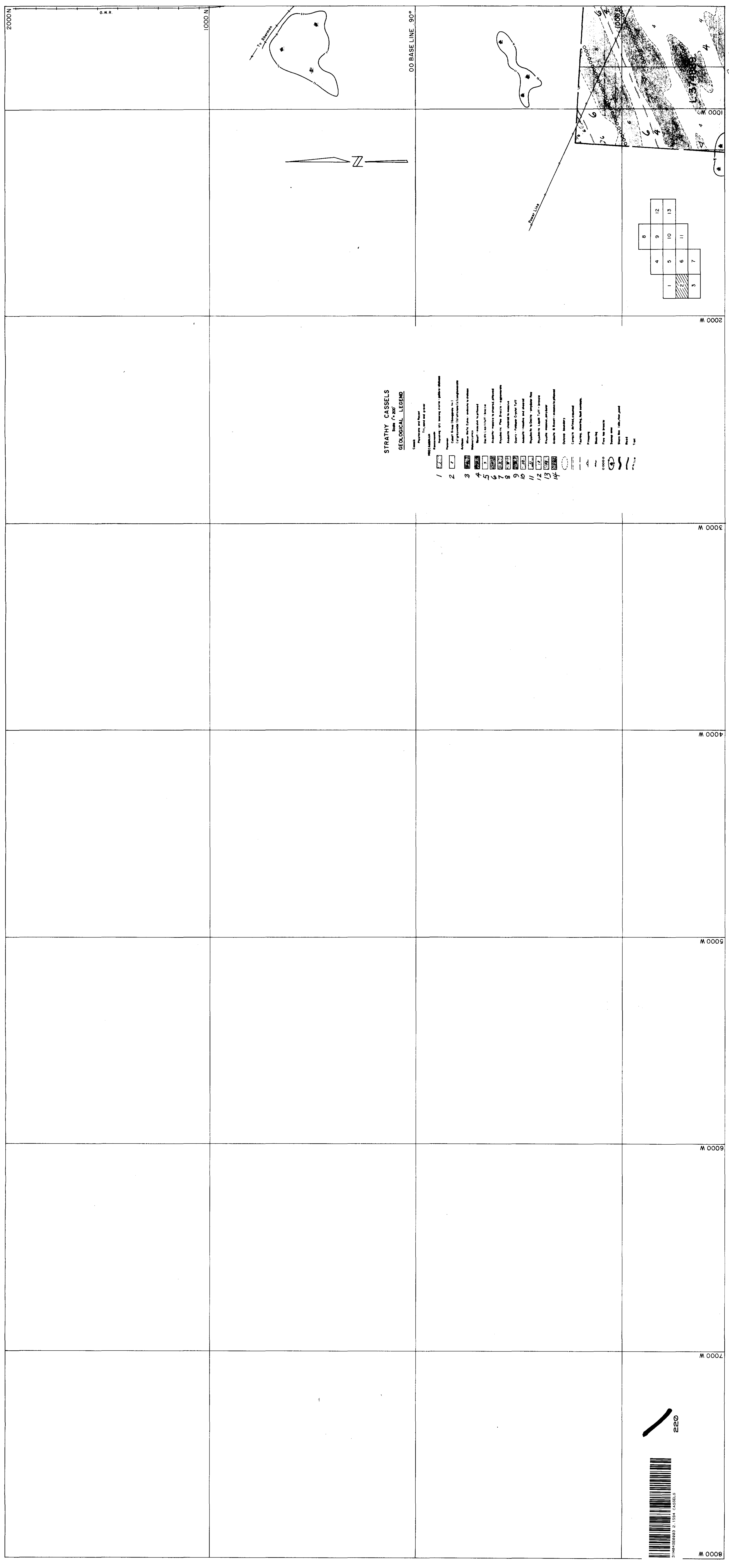
ACRES	HECTARES
40	16

TOWNSHIP 2.1594
STRATHY
 DISTRICT NIPISSING
 MINING DIVISION SUDBURY

Ministry of Natural Resources
 Ontario Surveys and Mapping Branch
 Date MARCH 1974 Plan No. **M.596**
 Whitney Block Queen's Park, Toronto

STRATHCONA TP. M.595

SE CORNER co-ordinates
 LAT. 47°03'35" APPROX.
 DEP. 79°45'35"



STRATHY CASSELS
Scale 1:50,000

GEOLOGICAL LEGEND

Contour
 1000
 2000
 3000
 4000
 5000
 6000
 7000
 8000
 9000
 10000

Other
 1. Fault
 2. Fault zone
 3. Fault zone
 4. Fault zone
 5. Fault zone
 6. Fault zone
 7. Fault zone
 8. Fault zone
 9. Fault zone
 10. Fault zone
 11. Fault zone
 12. Fault zone
 13. Fault zone
 14. Fault zone

Other
 1. Fault
 2. Fault zone
 3. Fault zone
 4. Fault zone
 5. Fault zone
 6. Fault zone
 7. Fault zone
 8. Fault zone
 9. Fault zone
 10. Fault zone
 11. Fault zone
 12. Fault zone
 13. Fault zone
 14. Fault zone

220



3194-66666-2-1594 CASSELS

8000 W

7000 W

6000 W

5000 W

4000 W

3000 W

2000 W

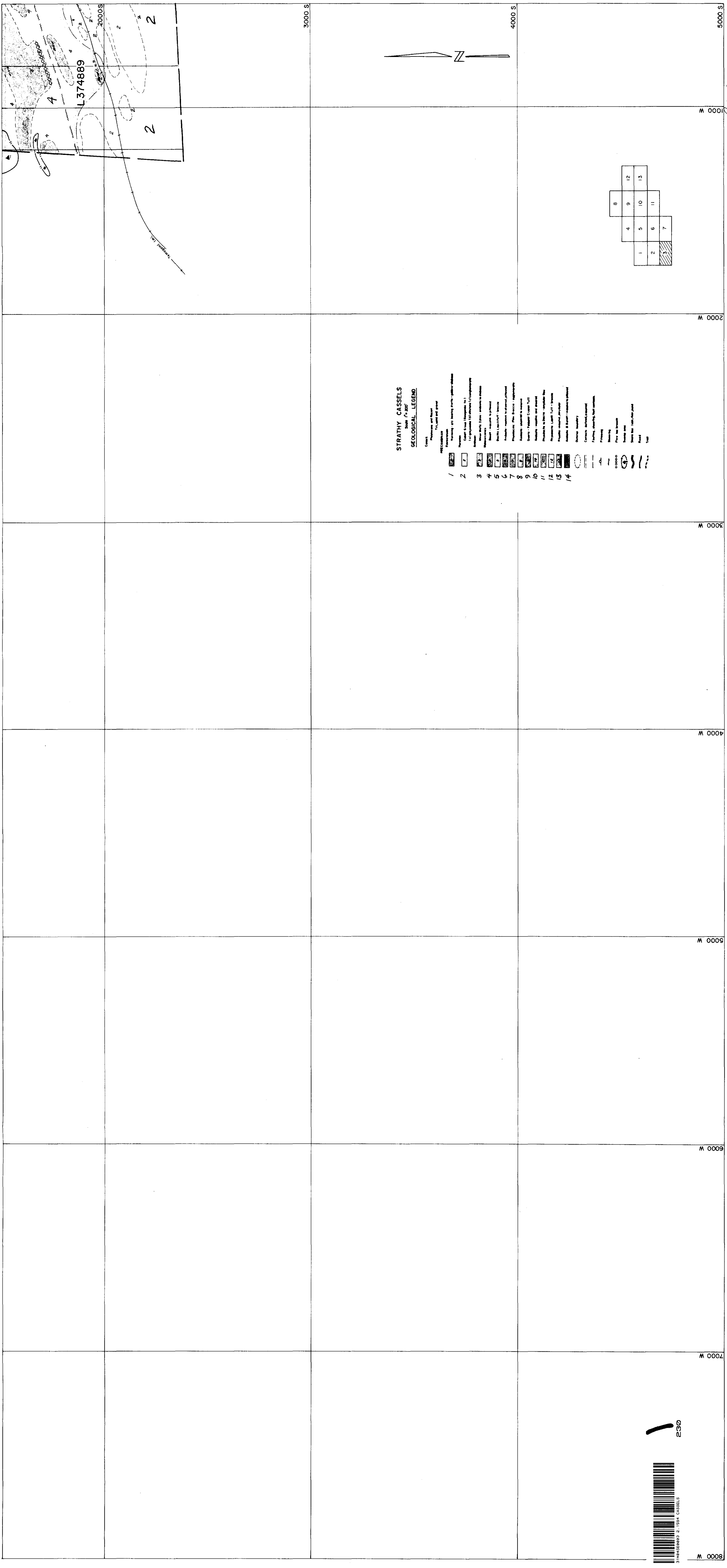
1000 W

20000

O.N.R.

10000 N

00 BASE LINE - 90°



STRATHY CASSELS
 Scale 1" = 200'

GEOLOGICAL LEGEND

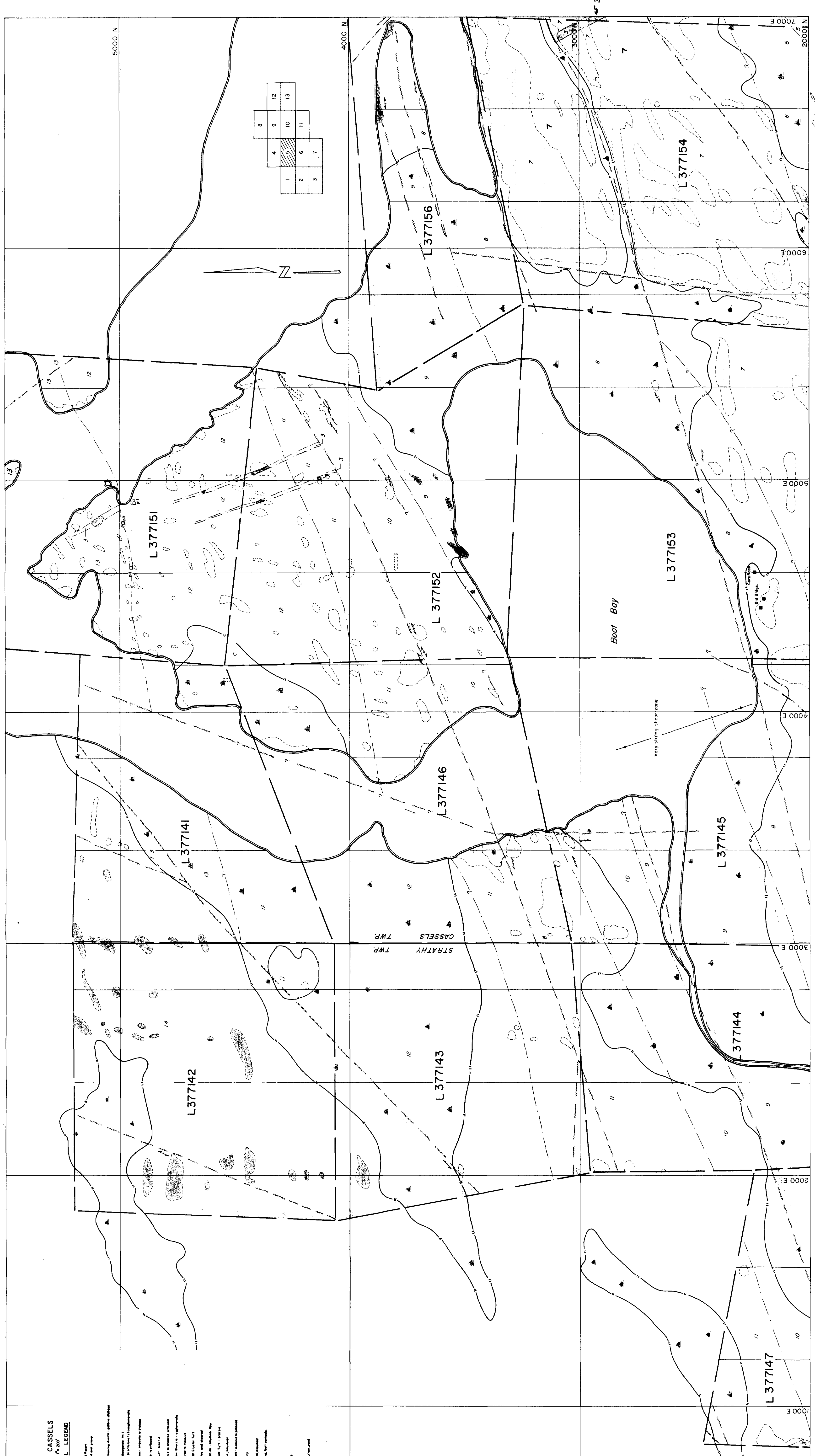
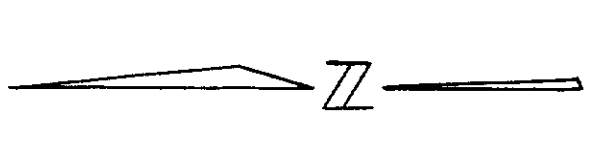
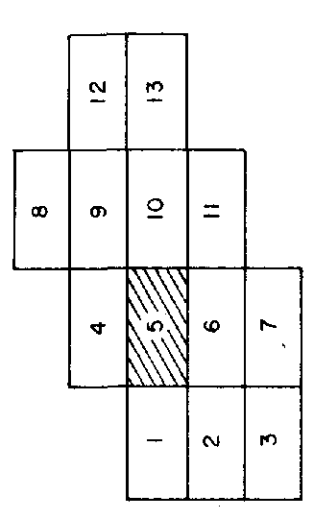
- Colors:**
 Blue - Water
 Green - Forest
 Yellow - Sandstone
 Red - Shale
 Grey - Limestone
 Black - Coal
- Structures:**
 1. Fault (thick line)
 2. Fault (thin line)
 3. Fault (dashed line)
 4. Fault (dotted line)
 5. Fault (dash-dot line)
 6. Fault (long-dash line)
 7. Fault (short-dash line)
 8. Fault (dash-dot-dot line)
 9. Fault (dash-dot-dot-dot line)
 10. Fault (dash-dot-dot-dot-dot line)
 11. Fault (dash-dot-dot-dot-dot-dot line)
 12. Fault (dash-dot-dot-dot-dot-dot-dot line)
 13. Fault (dash-dot-dot-dot-dot-dot-dot-dot line)
 14. Fault (dash-dot-dot-dot-dot-dot-dot-dot-dot line)
- Other Symbols:**
 Circle with dot - Well
 Circle with cross - Mine
 Circle with vertical line - Quarry
 Circle with horizontal line - Dam
 Circle with diagonal line - Bridge
 Circle with wavy line - Road
 Circle with zigzag line - Railway
 Circle with straight line - Pipeline
 Circle with dashed line - Power line
 Circle with dotted line - Telephone line
 Circle with dash-dot line - Gas line
 Circle with dash-dot-dot line - Sewer line
 Circle with dash-dot-dot-dot line - Water line
 Circle with dash-dot-dot-dot-dot line - Storm water line
 Circle with dash-dot-dot-dot-dot-dot line - Drainage line
 Circle with dash-dot-dot-dot-dot-dot-dot line - Irrigation line
 Circle with dash-dot-dot-dot-dot-dot-dot-dot line - Electric line
 Circle with dash-dot-dot-dot-dot-dot-dot-dot-dot line - Cable TV line
 Circle with dash-dot-dot-dot-dot-dot-dot-dot-dot-dot line - Fiber optic line

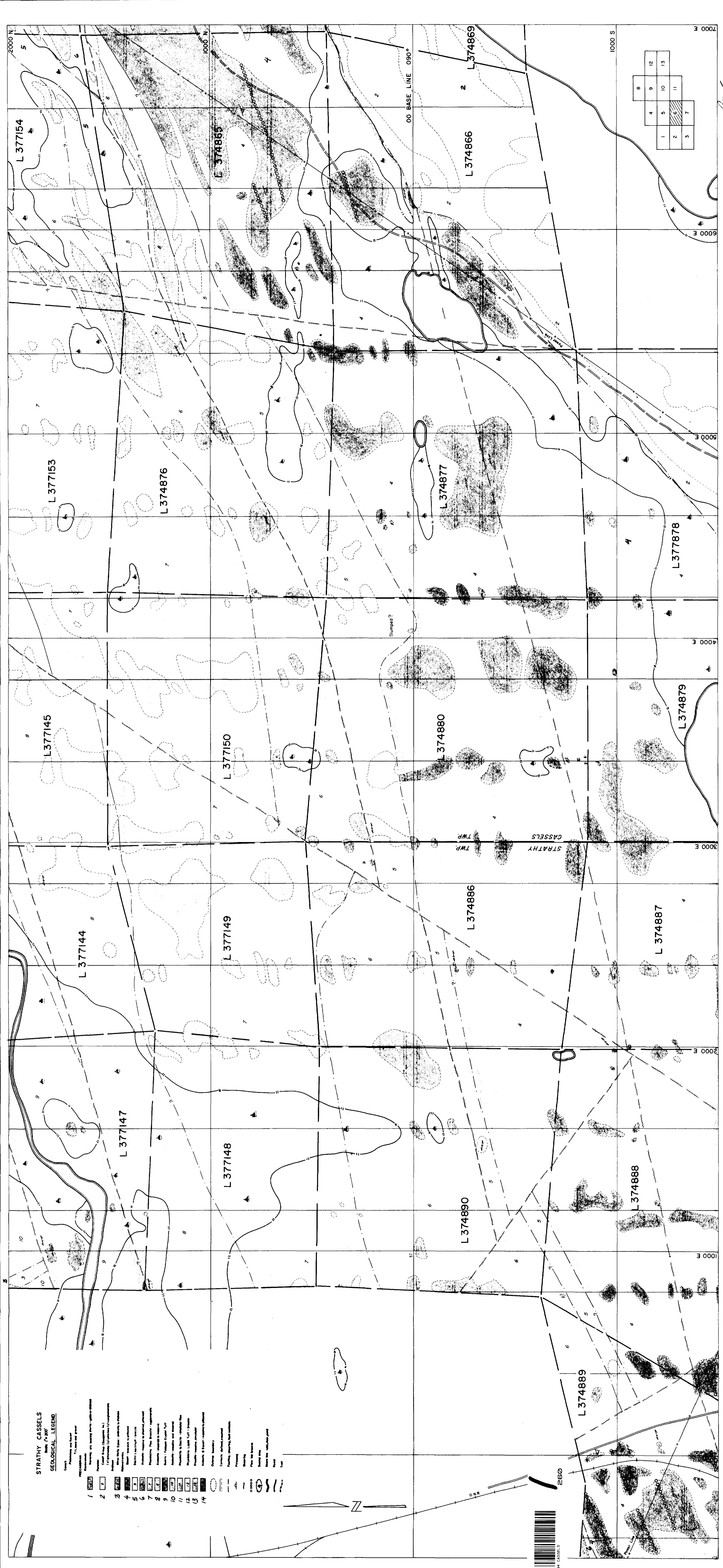
8	4	9	12
1	5	10	13
2	6	11	
3	7		



STRATHY CASSELS
Scale 1:50,000
GEOLOGICAL LEGEND

- Contour**
 100' contour interval
 100' contour interval
 100' contour interval
- Vegetation**
 1. 100' contour interval
 2. 100' contour interval
 3. 100' contour interval
 4. 100' contour interval
 5. 100' contour interval
 6. 100' contour interval
 7. 100' contour interval
 8. 100' contour interval
 9. 100' contour interval
 10. 100' contour interval
 11. 100' contour interval
 12. 100' contour interval
 13. 100' contour interval
 14. 100' contour interval
- Other**
 1. 100' contour interval
 2. 100' contour interval
 3. 100' contour interval
 4. 100' contour interval
 5. 100' contour interval
 6. 100' contour interval
 7. 100' contour interval
 8. 100' contour interval
 9. 100' contour interval
 10. 100' contour interval
 11. 100' contour interval
 12. 100' contour interval
 13. 100' contour interval
 14. 100' contour interval

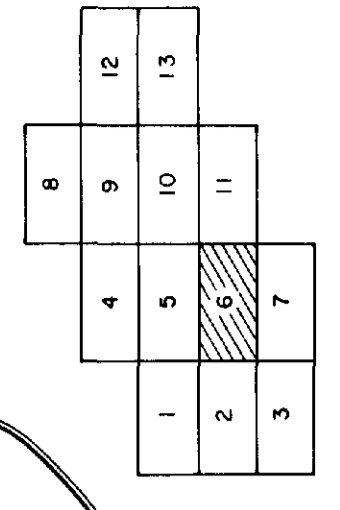
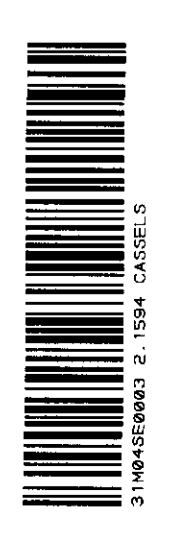




STRATHY CASSELS
Scale 1:250

GEOLOGICAL LEGEND

- Geology**
- 1. 2500
 - 2. 7
 - 3. 2500
 - 4. 3
 - 5. 3
 - 6. 3
 - 7. 3
 - 8. 3
 - 9. 3
 - 10. 3
 - 11. 3
 - 12. 3
 - 13. 3
 - 14. 3
- Topography**
- Contour Lines (Elevation in feet)
 - Spot Heights (Elevation in feet)
 - Contours at 10-foot intervals (1:10 scale)
 - Contours at 20-foot intervals (1:20 scale)
 - Contours at 50-foot intervals (1:50 scale)
 - Contours at 100-foot intervals (1:100 scale)
 - Contours at 200-foot intervals (1:200 scale)
 - Contours at 500-foot intervals (1:500 scale)
 - Contours at 1000-foot intervals (1:1000 scale)
 - Contours at 2000-foot intervals (1:2000 scale)
- Other Symbols**
- 0.0000
 - 0.0001
 - 0.0002
 - 0.0003
 - 0.0004
 - 0.0005
 - 0.0006
 - 0.0007
 - 0.0008
 - 0.0009
 - 0.0010
 - 0.0011
 - 0.0012
 - 0.0013
 - 0.0014
 - 0.0015
 - 0.0016
 - 0.0017
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R.M.L.

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2000 S

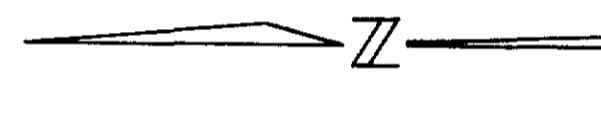
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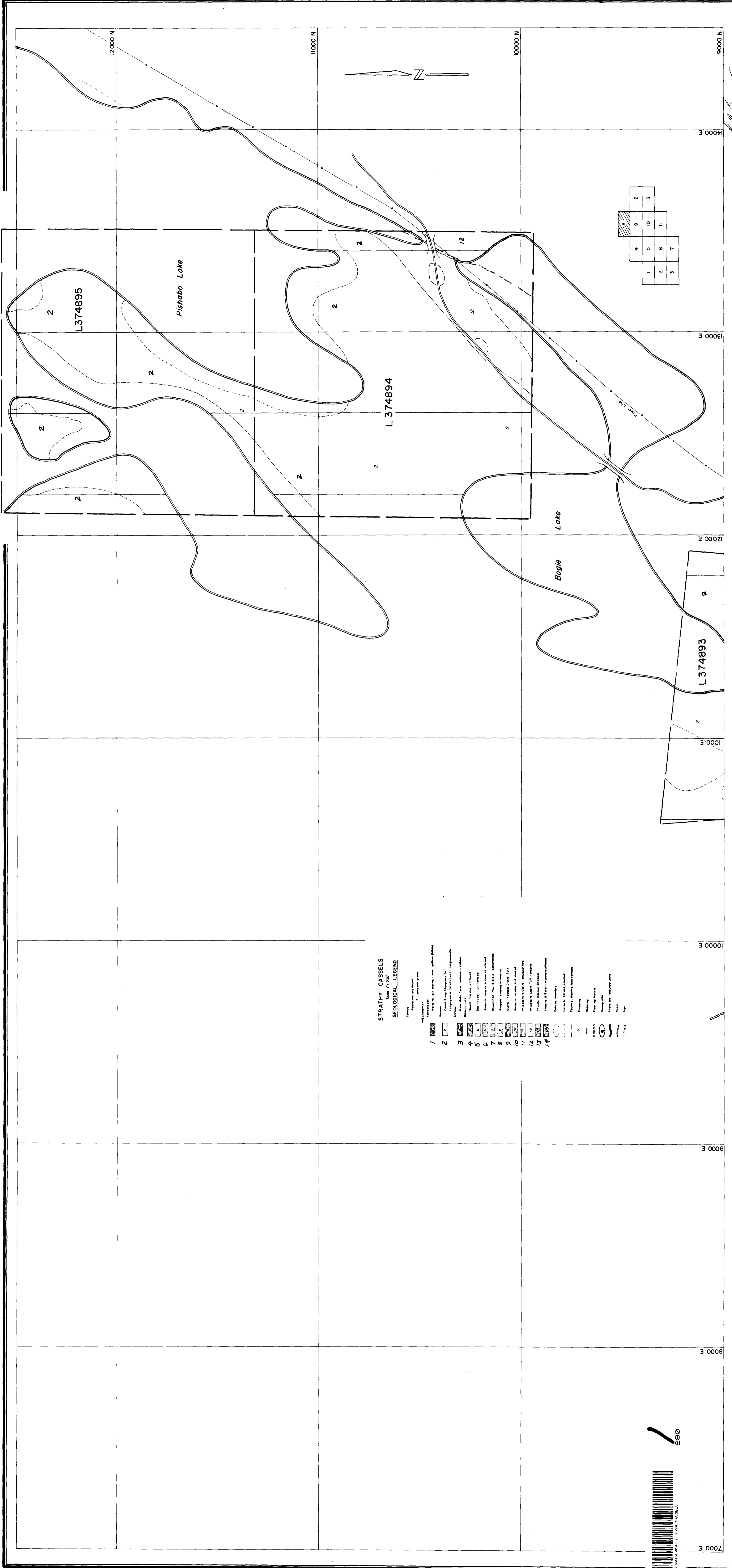
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STRATHY CASSELS
Scale 1" = 200'

GEOLOGICAL LEGEND

- Colors:**
 Blue: Water
 Green: Forest
 Yellow: Barren land
 Brown: Alluvial deposits
 Red: Sandstone
 Orange: Limestone
 Purple: Shale
 Grey: Coal
 Black: Unconsolidated deposits
- Other Symbols:**
 1. Contour lines
 2. Section lines
 3. Township and Range lines
 4. Section corners
 5. Section numbers
 6. Township and Range numbers
 7. Township and Range letters
 8. Township and Range coordinates
 9. Township and Range area
 10. Township and Range area
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 13. Township and Range area
 14. Township and Range area



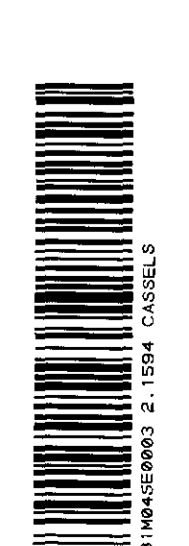


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STRATHY CASSELS
Scale 1:50,000
GEOLOGICAL LEGEND

- Contours and Relief**
- 1 Contour interval 100 feet
 - 2 Contour interval 200 feet
 - 3 Contour interval 300 feet
 - 4 Contour interval 400 feet
 - 5 Contour interval 500 feet
 - 6 Contour interval 600 feet
 - 7 Contour interval 700 feet
 - 8 Contour interval 800 feet
 - 9 Contour interval 900 feet
 - 10 Contour interval 1000 feet
 - 11 Contour interval 1100 feet
 - 12 Contour interval 1200 feet
 - 13 Contour interval 1300 feet
 - 14 Contour interval 1400 feet
- Water Features**
- 15 Pishabo Lake
 - 16 Bogie Lake
 - 17 Lake
 - 18 Stream
 - 19 River
 - 20 Dam
 - 21 Weir
 - 22 Embankment
 - 23 Culvert
 - 24 Pipeline
 - 25 Filling
 - 26 Quarry
 - 27 Pile up
 - 28 Sand pit
 - 29 Stock pile
 - 30 Road
 - 31 Railway
 - 32 Canal
 - 33 Drainage ditch
 - 34 Irrigation ditch
 - 35 Trench
 - 36 Embankment
 - 37 Pipeline
 - 38 Filling
 - 39 Quarry
 - 40 Pile up
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280

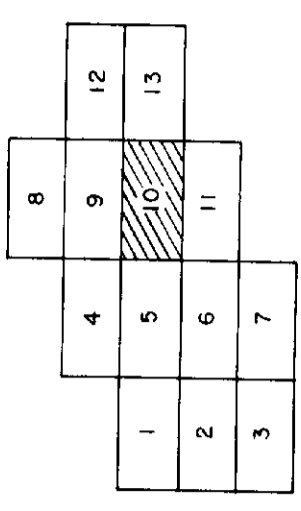




STRATHY CASSELS
Scale 1:200'

GEOLOGICAL LEGEND

- Colors**
 Pre-Cambrian and Paleozoic
 Quaternary
 (See also map page)
- RELIEF**
 Contour Lines: 10' contour interval
 Spot Elevations: 10' contour interval
 Stream Order: 1st Order (1) to 10th Order (10)
 Stream Direction: as shown
 Drainage: as shown
 Ditch: as shown
 Pipeline: as shown
 Quarry: as shown
 Mine: as shown
 Well: as shown
 Tower: as shown
 Monument: as shown
 Boundary: as shown
 Property: as shown
 Road: as shown
 Railway: as shown
 Canal: as shown
 Embankment: as shown
 Trench: as shown
 Dike: as shown
 Dam: as shown
 Pier: as shown
 Wharf: as shown
 Breakwater: as shown
 Jetty: as shown
 Pier: as shown
 Wharf: as shown
 Breakwater: as shown
 Jetty: as shown



374885-2-1524 CASSELS

300

P.A.B.

