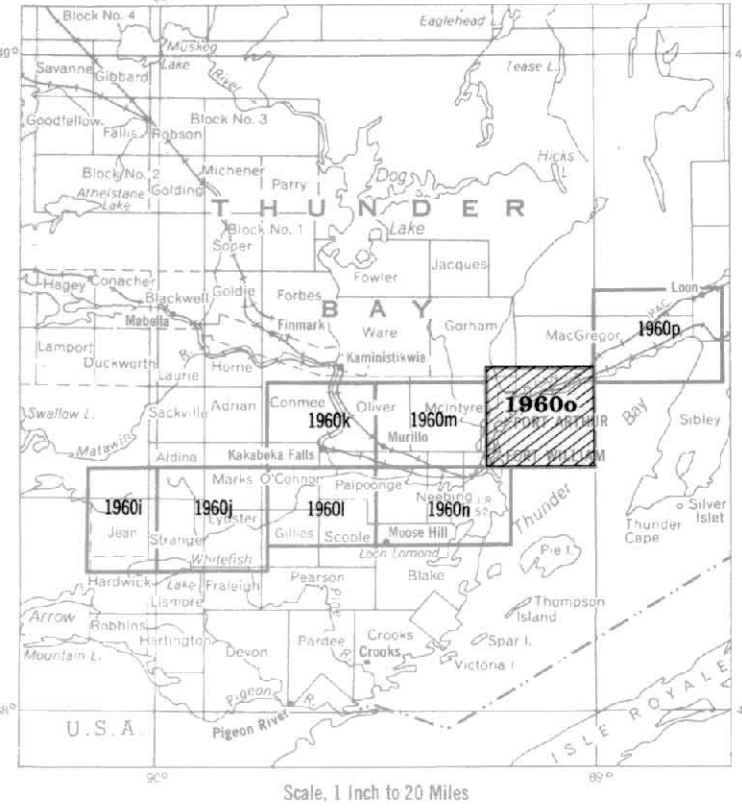




ONTARIO
DEPARTMENT OF MINES
HON. JAMES A. MALONEY, Minister of Mines
H. C. Rickaby, Deputy Minister M. E. Hurst, Provincial Geologist

Map No. 1960a
PORT ARTHUR AREA
Gunflint Iron Range



SYMBOLS

- Provincial highway.
- Secondary road.
- Wagon road, portage, trail.
- Railway.
- Electric power transmission line.
- Building.
- Township boundary.
- Cliff feature.
- Muckey or swamp.
- Glacial striae.
- Small rock outcrop.
- Boundary of rock outcrop, outcrop area.
- Geological boundary, approximate.
- Geological boundary, assumed.
- Horizontal bedding.
- Strike and dip.
- Strike and vertical dip, direction of top unknown.
- Strike and dip of schistosity.
- Strike of vertical schistosity.
- Strike and dip of gneissosity.
- Strike of vertical gneissosity.
- Fault, assumed, spot indicates downthrow side.
- Shaft.
- Test pit, trench.
- Drill hole, inclination unknown.
- Q.V. Quartz vein.
- Q.C.V. Quartz-calcite vein.
- C.V. Calcite vein.

NOTES

The base map is a direct reproduction at a reduced scale of the Forest Resources Inventory map 48491 and part of map 48501 of the Ontario Department of Lands and Forests with additional township names added in the border. For forestry and miscellaneous symbols not listed above refer to the Ontario Department of Lands and Forests Manual of Timber Management, Part IV.

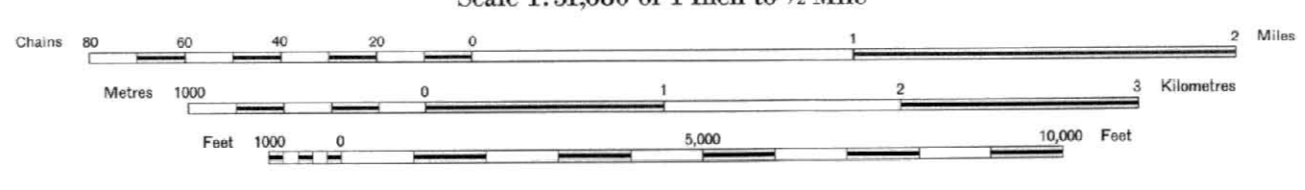
LEGEND

- PRECAMBRIAN**
- KEWEENAWAN**
- INTRUSIVES**
- 6 Diabase.
6b Porphyritic diabase.
6c Recrystallized diabase.
6d Lamprophyric diabase.
6e Syenite.
- INTRUSIVE CONTACT**
- SEDIMENTS**
- 5 Conglomerate.
5b Sandstone.
5c Limestone.
5d Shale.
5e Well-sorted rock.
- UNCONFORMITY**
- ANIMIKIE**
- ROVE FORMATION**
- 4 Rove argillite, greywacke.
- GUNFLINT IRON FORMATION**
Upper and Lower Gunflint named on map face where separable.
- 3 Ferruginous carbonate.
3a Chert.
3ab Thin-bedded chert-carbonate.
3c Granular iron formation (sponzite).
3d Hematitic iron formation.
3e Argillite.
3f Chert-carbonate breccia.
3g Iron-quartzite conglomerate.
3h Jasper.
3i Weathered iron formation.
3j Iron-stalactite iron formation.
3k Tuff.
3m Algal chert concretions.
3n Limestone.
- UNCONFORMITY**
- ALGOMAN TYPE**
- 2 Granite.
2b Porphyry.
2c Amphibole.
2d Granite gneiss.
2e Pegmatite.
2f Syenite and shankinite.
2g Lamprophyre.
- INTRUSIVE CONTACT**
- KEEWATIN TYPE**
- 1a Pillow lava.
1b Diorite, metabasite.
1c Tuff.
1d Sheared greenstone.
1e Gneiss.
1f Mica andesite.
1g Conglomerate.
1h Trapp.
1i Chloritic amphibolite (injected).
1k Recrystallized greenstone.
1l Rhyolite.
1m Amphibolite.
1n Gabbro diorite.
- bx Breccia

SOURCES OF INFORMATION
Geology by W. Macpherson and assistants, 1955, 1951.
Cartography by D. F. Jude and F. W. Love, Ontario Department of Mines, 1960.
Base map reproduced by permission of the Ontario Department of Lands and Forests.
Magnetic declination approximately 0°, 1960.

Map No. 1960a
PORT ARTHUR AREA
GUNFLINT IRON RANGE
DISTRICT OF THUNDER BAY

Scale 1:31,680 or 1 inch to 1/2 Mile

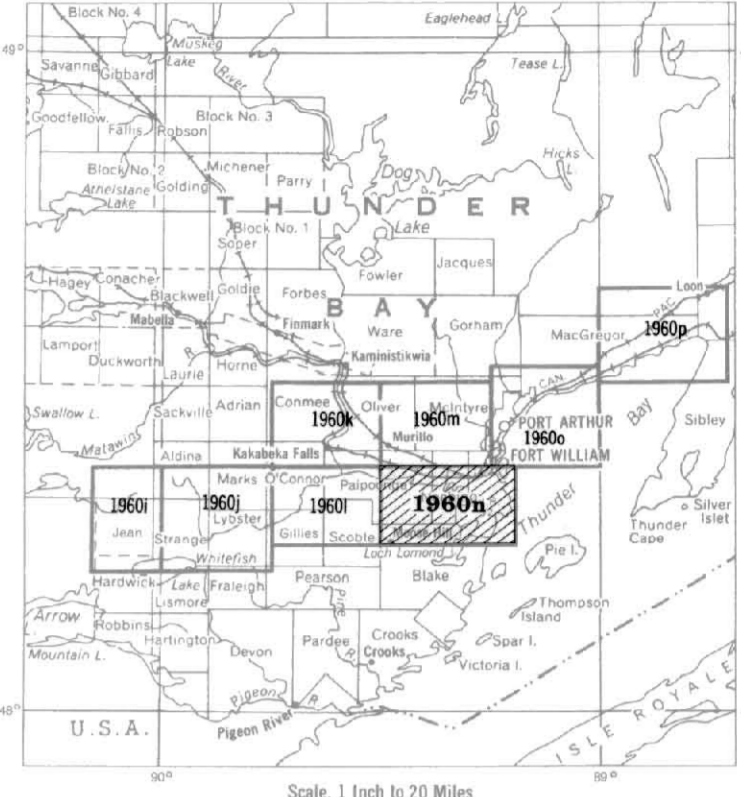
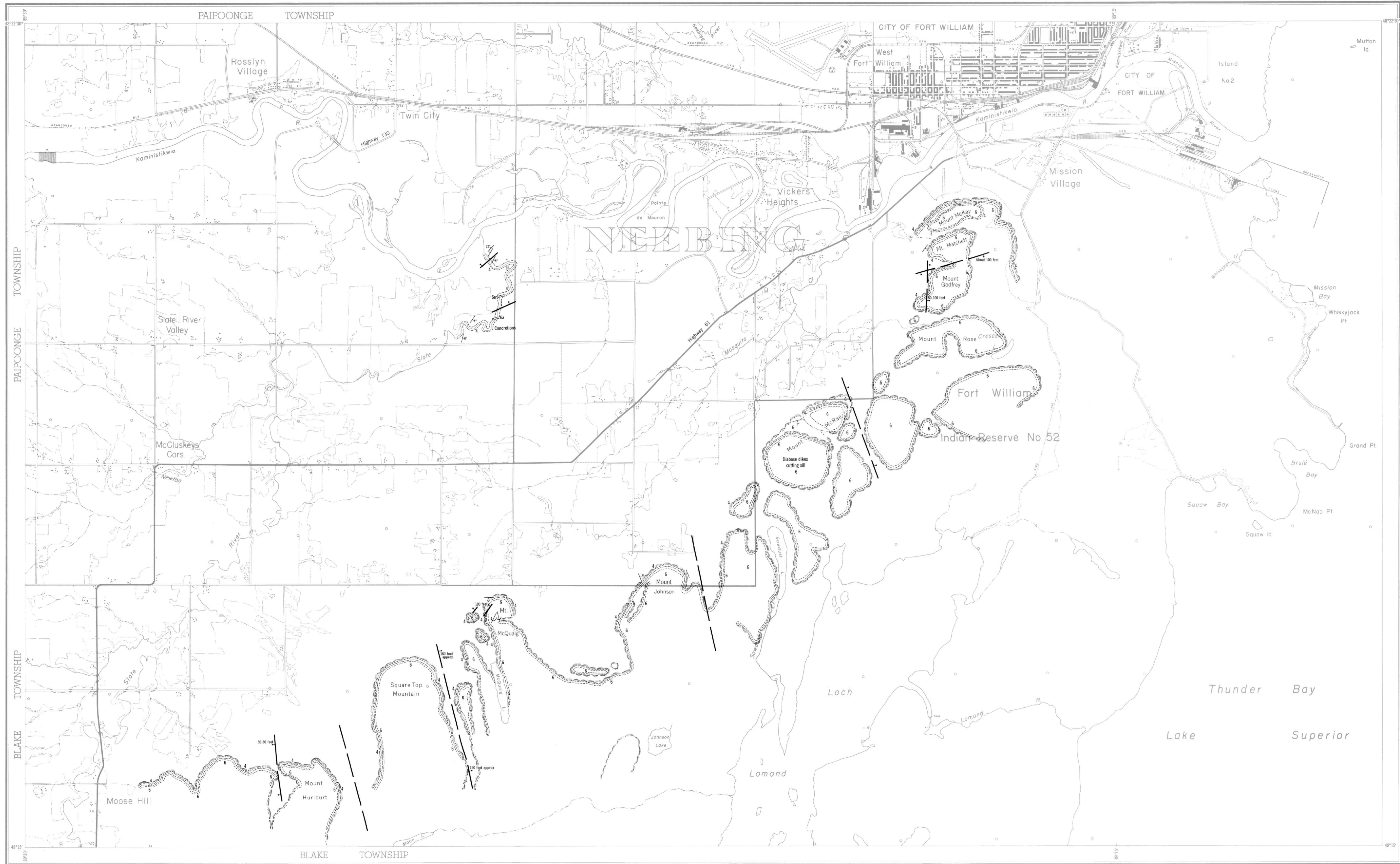




ONTARIO
DEPARTMENT OF MINES

HON. JAMES A. MALONEY, Minister of Mines
H. C. Rieckby, Deputy Minister M. E. Hurst, Provincial Geologist

Map No. 1960a
NEEBING AREA
Gunflint Iron Range



- SYMBOLS**
- Provincial highway.
 - Secondary road.
 - Wagon road, portage, trail.
 - Railway.
 - Electric power transmission line.
 - Building.
 - Township boundary.
 - Cliff feature.
 - Muskeg or swamp.
 - Glacial striae.
 - Small rock outcrop.
 - Boundary of rock outcrop, outcrop area.
 - Geological boundary, approximate.
 - Geological boundary, assumed.
 - Horizontal bedding.
 - Strike and dip.
 - Strike and vertical dip; direction of top unknown.
 - Strike and dip of schistosity.
 - Strike of vertical schistosity.
 - Strike and dip of gneissosity.
 - Strike of vertical gneissosity.
 - Fault, assumed; spot indicates downthrow side.
 - Shaft.
 - Test pit, trench.
 - Drill hole, inclination unknown.
 - Q.V. Quartz vein.
 - Q.C.V. Quartz-calcite vein.
 - C.V. Calcite vein.

LEGEND

PRECAMBRIAN

KEEWANAW

INTRUSIVES

- 6 Diabase.
- 6a Phanocrystic diabase.
- 6c Xenocrysts in diabase.
- 6d Lamprophyric diabase.
- 6e Syenite.

INTRUSIVE CONTACT

SEDIMENTS

- 5 Conglomerate.
- 5a Sandstone.
- 5b Limestone.
- 5c Shale.
- 5d Volcanic rock.

UNCONFORMITY

ANIMIKIE

ROVE FORMATION

- 4 Rove argillite, gneissite.

GUNFLINT IRON FORMATION

Upper and Lower Gunflint named on map face where separable.

- 3a Ferruginous carbonate.
- 3b Chert.
- 3c Thin-bedded chert-carbonate.
- 3d Granular iron formation (taconite).
- 3e Magnetite iron formation.
- 3f Argillite.
- 3g Chert-carbonate breccia.
- 3h Blue quartzite conglomerate.
- 3i Jasper.
- 3j Weathered iron formations.
- 3k Recrystallized iron formation.
- 3l Tuff.
- 3m Algal chert concretions.
- 3n Limestone.

UNCONFORMITY

ALGOMAN TYPE

- 2a Granite.
- 2b Phosphory.
- 2c Aplite.
- 2d Granite gneiss.
- 2e Pegmatite.
- 2f Spinelite and thornkillite.
- 2g Lamprophyre.

INTRUSIVE CONTACT

KEEWATIN TYPE

- 1a Pillow lava.
- 1b Diabase, metabasalt.
- 1c Tuff.
- 1d Shale, greenstone.
- 1e Gneiss.
- 1f Mica andesite.
- 1g Gneissite.
- 1h Trap.
- 1i Diabase amphibolite (injected).
- 1j Recrystallized greenstone.
- 1k Breccia.
- 1m Amphibolite.
- 1n Biotite diorite.

INTRUSIVE CONTACT

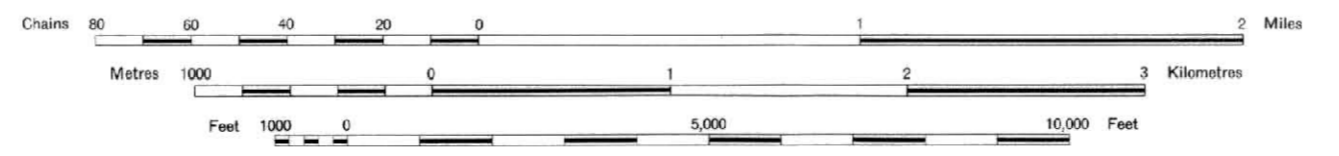
- bx Breccia

SOURCES OF INFORMATION

Geology by W. Moorhouse and assistants, 1951, and by A.M. Gordon, 1952.
Cartography by D. F. Jope and F. W. Love, Ontario Department of Mines, 1960.
Base map reproduced by permission of the Ontario Department of Lands and Forests.
Magnetic declination approximately 1° East, 1960.

Map No. 1960a
NEEBING AREA
GUNFLINT IRON RANGE
DISTRICT OF THUNDER BAY

Scale 1:31,680 or 1 Inch to 1/2 Mile

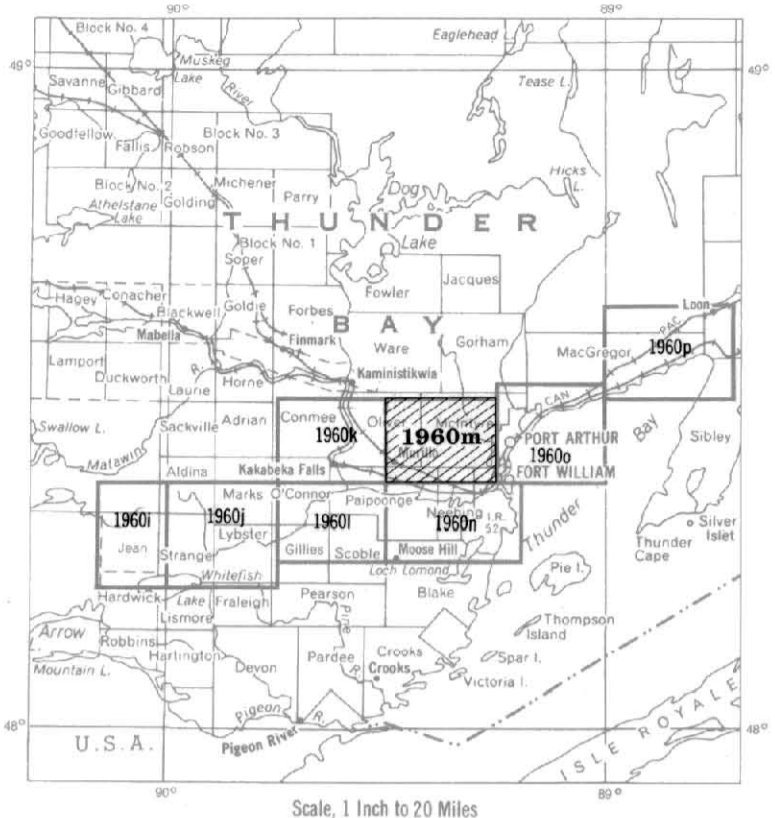
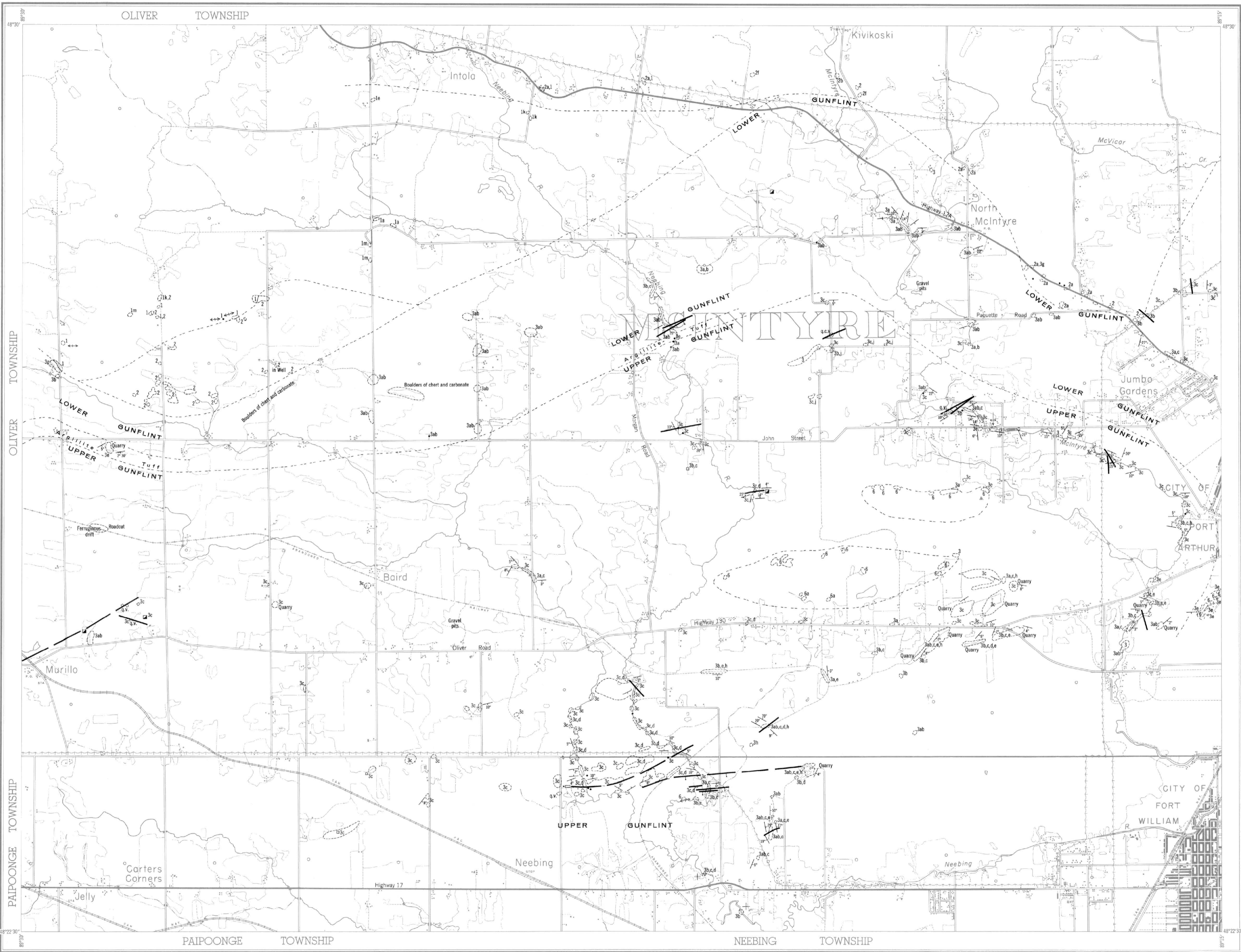


NOTES
The base map is a direct reproduction at a reduced scale of Forest Resources Inventory map 40296 and part of map 40295 of the Ontario Department of Lands and Forests with additional township names added in the border. For boundary and miscellaneous symbols not listed above refer to the Ontario Department of Lands and Forests Manual of Timber Management, Part II.



ONTARIO
DEPARTMENT OF MINES
HON. JAMES A. MALONEY, Minister of Mines
H. C. Rickaby, Deputy Minister M. E. Hurst, Provincial Geologist

Map No. 1960m
McINTYRE AREA
Gunflint Iron Range



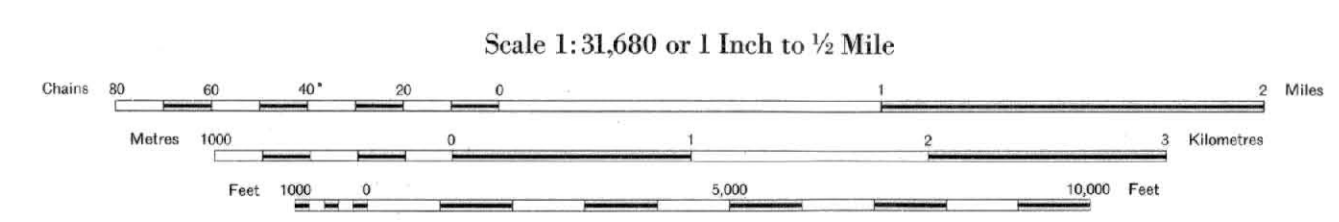
- SYMBOLS**
- Provincial highway.
 - Secondary road.
 - Wagon road, portage, trail.
 - Railway.
 - Electric power transmission line.
 - Building.
 - Township boundary.
 - Cliff feature.
 - Mudspit or swamp.
 - Glacial striae.
 - Small rock outcrop.
 - Boundary of rock outcrop, outcrop area.
 - Geological boundary, approximate.
 - Geological boundary, assumed.
 - Horizontal bedding.
 - Strike and dip.
 - Strike and vertical dip, direction of top unknown.
 - Strike and dip of schistosity.
 - Strike of vertical schistosity.
 - Strike and dip of gneissosity.
 - Strike of vertical gneissosity.
 - Fault, assumed, spot indicates downthrow side.
 - Shaft.
 - Test pit, trench.
 - Drill hole, inclination unknown.
 - q.v. Quartz vein.
 - q.c.v. Quartz-calcite vein.
 - c.v. Calcite vein.

- LEGEND**
- PRECAMBRIAN**
- KEWEENAWAN**
- INTRUSIVES**
- 6 Diabase
 - 6c Porphyritic diabase
 - 6c Renocysts in diabase
 - 6c Laminar porphyritic diabase
 - 6c Syenite
- INTRUSIVE CONTACT**
- SEDIMENTS**
- 5 Conglomerate
 - 5b Sandstone
 - 5c Limestone
 - 5d Shale
 - 5e Varied rock
- UNCONFORMITY**
- ANIMIKIE**
- ROVE FORMATION**
- 4 Rove argillite, greywacke
- GUNFLINT IRON FORMATION**
Upper and Lower Gunflint named on map face where separate.
- 3 Ferruginous carbonate
 - 3a Chert
 - 3ab Thin bedded chert-carbonate
 - 3c Granular iron formation (taconite)
 - 3c Ferruginous iron formation
 - 3c Argillite
 - 3c Chert-carbonate breccia
 - 3c Basal quartzite conglomerate
 - 3c Jasper
 - 3c Weathered iron formation
 - 3c Recrystallized iron formation
 - 3c Tuff
 - 3c Algal chert concretions
 - 3c Limestone
- UNCONFORMITY**
- ALGOMAN TYPE**
- 2 Granite
 - 2b Rhyolite
 - 2c Andite
 - 2c Granite gneiss
 - 2c Pegmatite
 - 2f Syenite and thornknite
 - 2g Lamprophyre
- INTRUSIVE CONTACT**
- KEEWATIN TYPE**
- 1 Pillow lava
 - 1b Diorite, metabasite
 - 1c Tuff
 - 1d Sheared greenstone
 - 1e Gneiss
 - 1f Micro andesite
 - 1g Greenwacke
 - 1h Trap
 - 1i Diabase amphibolite (injected)
 - 1k Recrystallized greenstone
 - 1l Pyroxite
 - 1m Amphibolite
 - 1n Basalt diorite
- bx Breccia**

NOTES
The base map is a direct reproduction at a reduced scale of Forest Resources Inventory map 48499 of the Ontario Department of Lands and Forests with additional township names added in the border. For forestry and miscellaneous symbols not listed above refer to the Ontario Department of Lands and Forests Manual of Timber Management, Part 1.

SOURCES OF INFORMATION
Geology by W. W. Moorhouse and assistants, 1961.
Cartography by D. F. Jupp and R. B. Robinson, Ontario Department of Mines, 1960.
Base map reproduced by permission of the Ontario Department of Lands and Forests.
Magnetic declination approximately 1° East, 1960.

Map No. 1960m
McINTYRE AREA
GUNFLINT IRON RANGE
DISTRICT OF THUNDER BAY

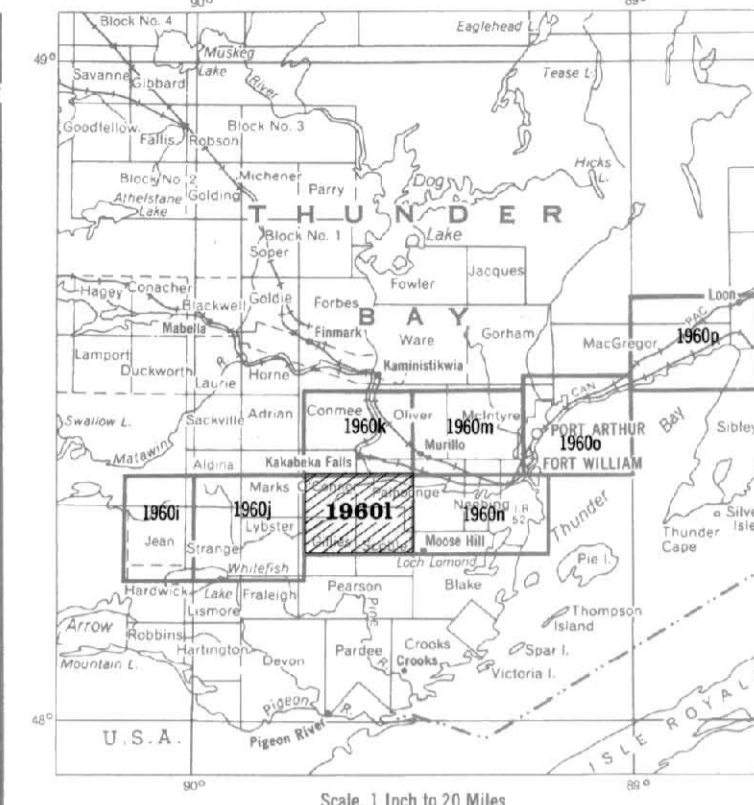
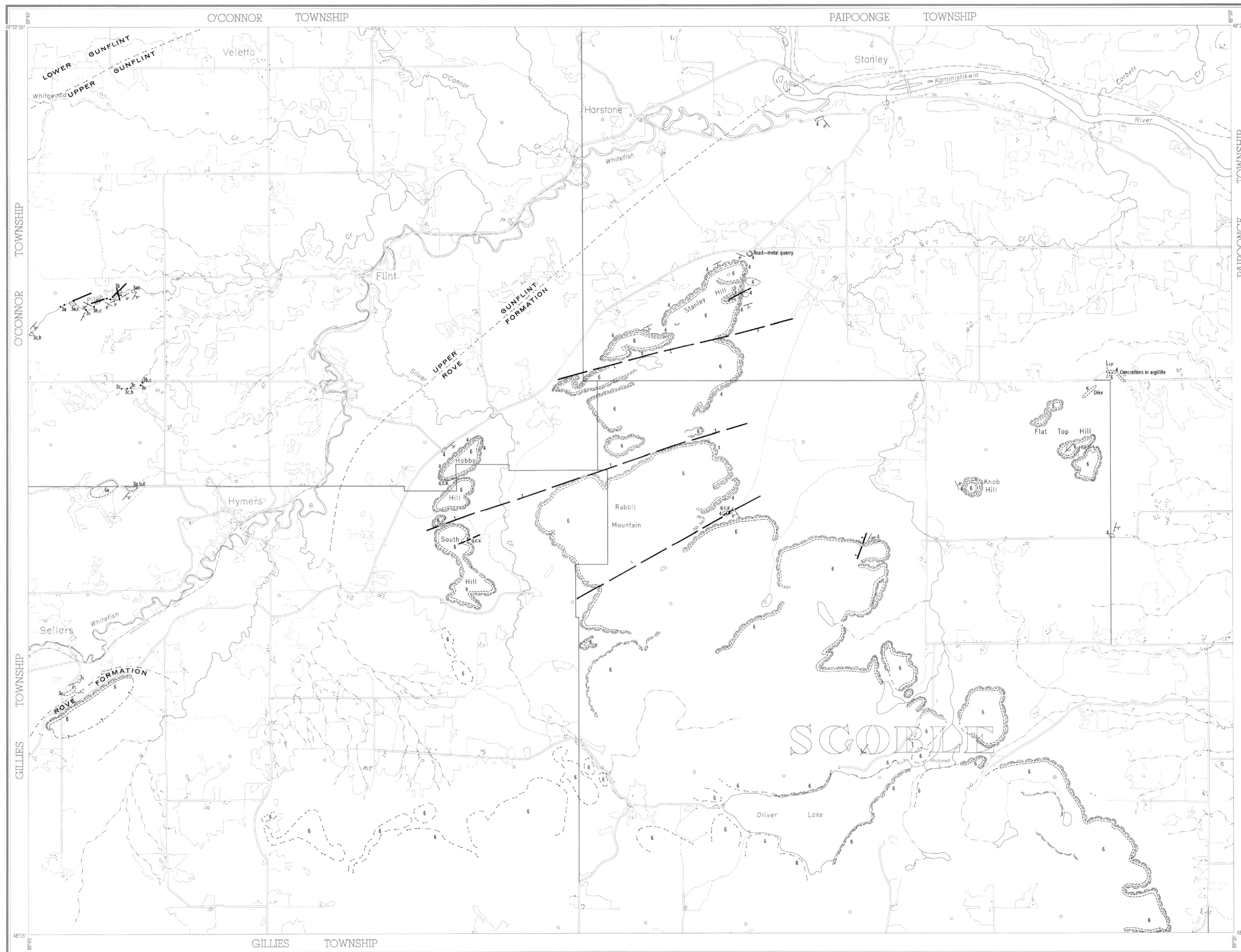




ONTARIO
DEPARTMENT OF MINES

HON. JAMES A. MALONEY, Minister of Mines
H. C. Riekaby, Deputy Minister M. E. Hurst, Provincial Geologist

Map No. 19601
HYMERS-STANLEY AREA
Gunflint Iron Range



Scale, 1 Inch to 20 Miles

SYMBOLS

- Provincial highway.
- Secondary road.
- Wagon road, portage, trail.
- Railway.
- Electric power transmission line.
- Building.
- Township boundary.
- Cliff feature.
- Muskog or swamp.
- Glacial striae.
- Small rock outcrop.
- Boundary of rock outcrop, outcrop area.
- Geological boundary, approximate.
- Geological boundary, assumed.
- Horizontal bedding.
- Strike and dip.
- Strike and vertical dip, direction of top unknown.
- Strike and dip of schistosity.
- Strike of vertical schistosity.
- Strike and dip of gneissosity.
- Strike of vertical gneissosity.
- Fault, assumed; spot indicates downthrow side.
- Shaft.
- Test pit, trench.
- DHS Drill hole, inclination unknown.
- q.v. Quartz vein.
- q.c.v. Quartz-calcite vein.
- c.v. Calcite vein.

NOTES

The base map is a direct reproduction at a reduced scale of Forest Resources Inventory map 483803 of the Ontario Department of Lands and Forests with additional township names added in the border. For forestry and miscellaneous symbols not listed above refer to the Ontario Department of Lands and Forests Manual of Timber Management, Part 1.

LEGEND

PRECAMBRIAN

KEWEENAWAN

INTRUSIVES

- 6 Diabase.
- 6a Porphyritic diabase.
- 6c Amphibolite in diabase.
- 6d Lamprophyric diabase.
- 6e Syenite.

INTRUSIVE CONTACT

SEDIMENTS

- 5a Conglomerate.
- 5b Sandstone.
- 5c Limestone.
- 5d Shale.
- 5e Veined rock.

UNCONFORMITY

ANIMIKIE

ROZE FORMATION

- 4 *Roze argillite, greywacke.*

GUNFLINT IRON FORMATION

Upper and Lower Gunflint named on map face where separable.

- 3a Ferruginous carbonate.
- 3b Chert.
- 3b1 Thin-bedded chert-carbonate.
- 3c Granular iron formation (taconite).
- 3d Hematitic iron formation.
- 3e Argillite.
- 3f Chert-carbonate breccia.
- 3g Basal quartzite conglomerate.
- 3h *Lower.*
- 3i Weathered iron formation.
- 3k Recrystallized iron formation.
- 3l Tuff.
- 3m Algal chert concretions.
- 3n Limestone.

UNCONFORMITY

ALGOMAN TYPE

- 2a Granite.
- 2b Porphyry.
- 2c Anite.
- 2d Granite gneiss.
- 2e Pegmatite.
- 2f Syenite and shonkinite.
- 2g Lamprophyre.

INTRUSIVE CONTACT

KEEWATIN TYPE

- 1a Pillow lava.
- 1b Diorite, metabasite.
- 1c Tuff.
- 1d Sheared greenstone.
- 1e Gneiss.
- 1f Mica anorthite.
- 1g Greywacke.
- 1h Trap.
- 1i Diabase amphibolite (injected).
- 1k Recrystallized greenstone.
- 1l Rhyolite.
- 1m Amphibolite.
- 1n Biotite diorite.

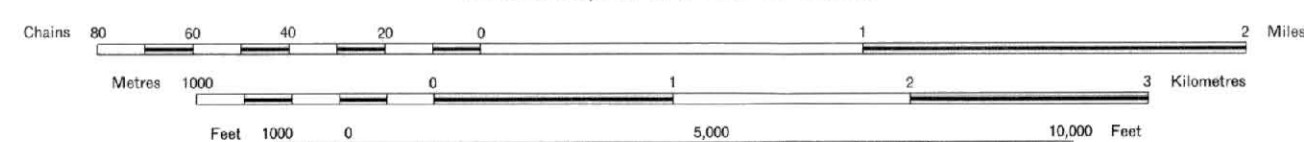
- bx Breccia

SOURCES OF INFORMATION

Geology by W. W. Macpherson and assistants, 1961, and by A. M. Goodwin, 1952.
Cartography by O. F. Juse and F. W. Love, Ontario Department of Mines, 1960.
Base map reproduced by permission of the Ontario Department of Lands and Forests.
Magnetic declination approximately 1° East, 1960.

Map No. 19601
HYMERS-STANLEY AREA
GUNFLINT IRON RANGE
DISTRICT OF THUNDER BAY

Scale 1:31,680 or 1 Inch to 1/2 Mile

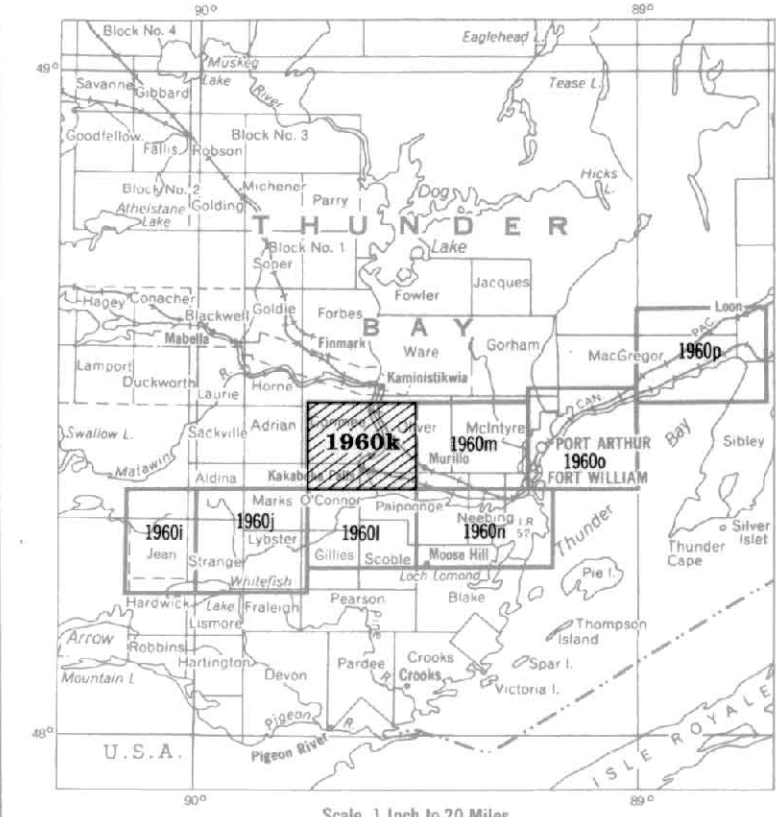




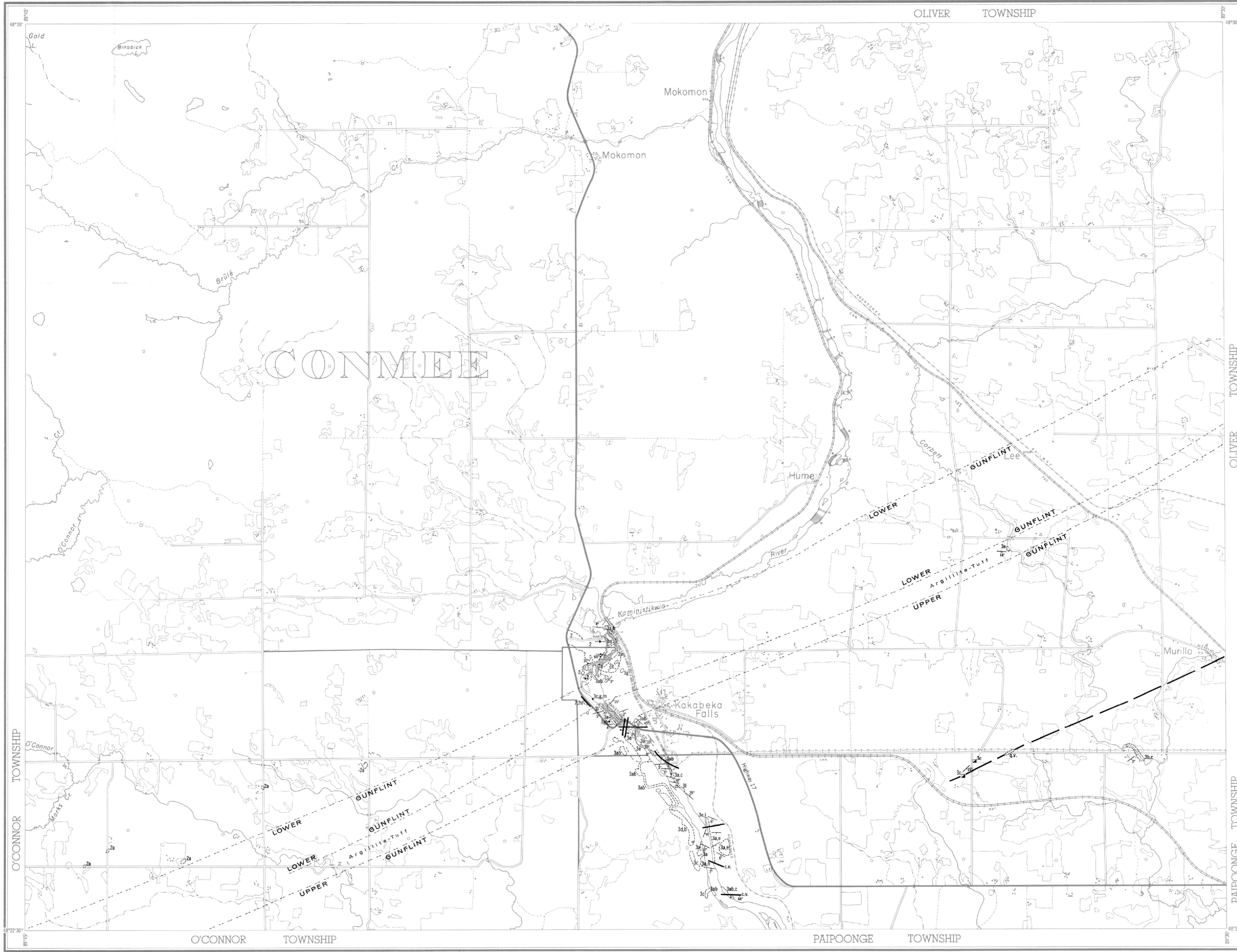
ONTARIO
DEPARTMENT OF MINES

HON. JAMES A. MALONEY, Minister of Mines
H. C. Rickaby, Deputy Minister M. E. Hurst, Provincial Geologist

Map No. 1960k
KAKABEKA FALLS AREA
Gunflint Iron Range



Scale, 1 Inch to 20 Miles



SYMBOLS

- Provincial highway.
- Secondary road.
- Wagon road, portage, trail.
- Railway.
- Electric power transmission line.
- Building.
- Township boundary.
- Cliff feature.
- Muskeg or swamp.
- Glacial striae.
- Small rock outcrop.
- Boundary of rock outcrop, outcrop area.
- Geological boundary, approximate.
- Geological boundary, assumed.
- Horizontal bedding.
- Strike and dip.
- Strike and vertical dip; direction of top unknown.
- Strike and dip of schistosity.
- Strike of vertical schistosity.
- Strike and dip of gneissosity.
- Strike of vertical gneissosity.
- Fault, assumed; spot indicates downthrow side.
- Shaft.
- Test pit, trench.
- DHB Drill hole, inclination unknown.
- Quartz vein.
- Quartz-calcite vein.
- Calcite vein.

NOTES
The base map is a direct reproduction at a reduced scale of Forest Resources Inventory map 48482 of the Ontario Department of Lands and Forests with additional township names added to the border. For forestry and miscellaneous symbols not listed above refer to the Ontario Department of Lands and Forests Manual of Timber Management, Part II.

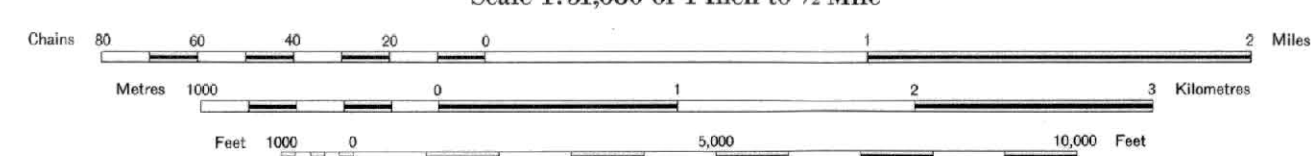
LEGEND

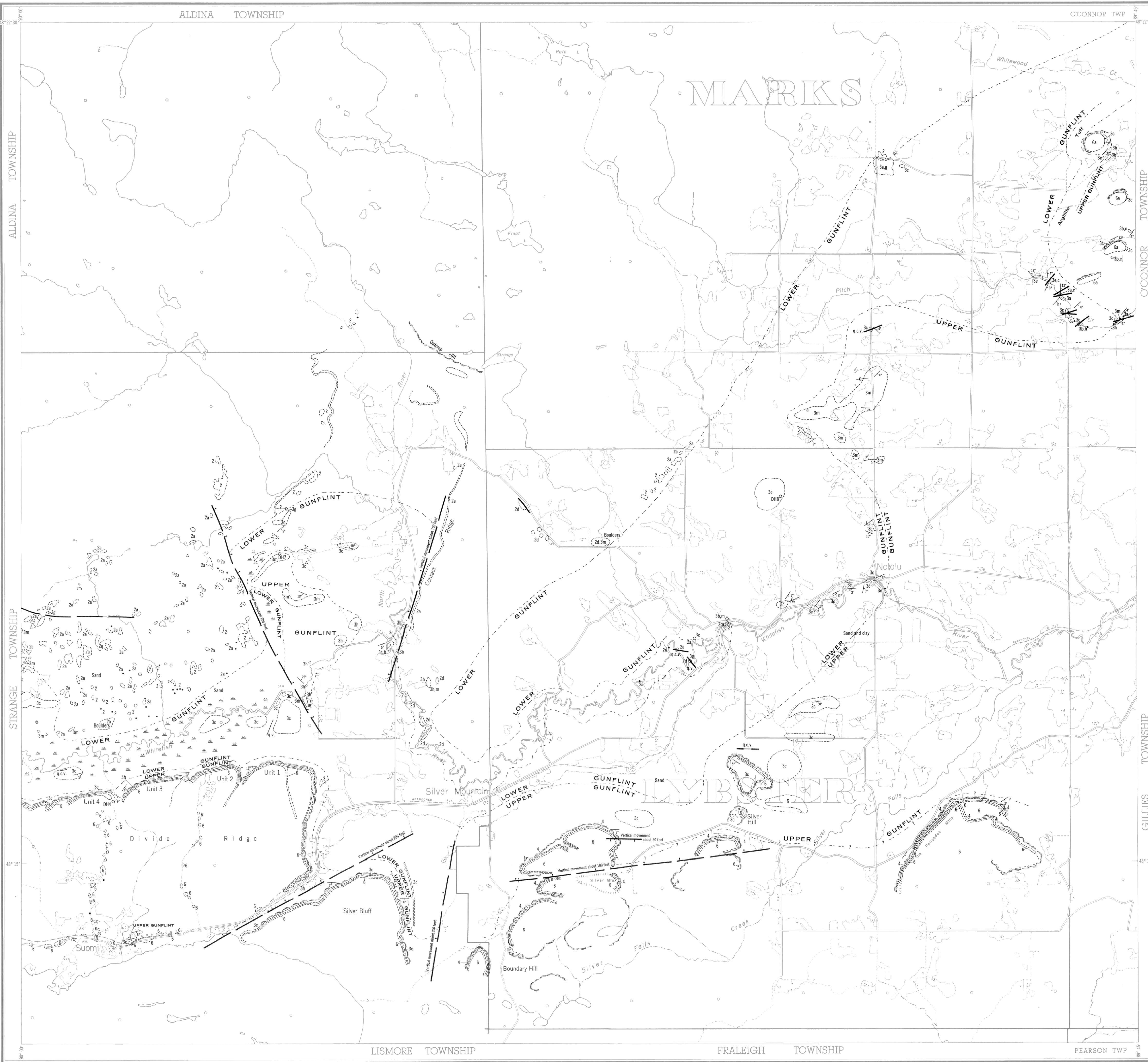
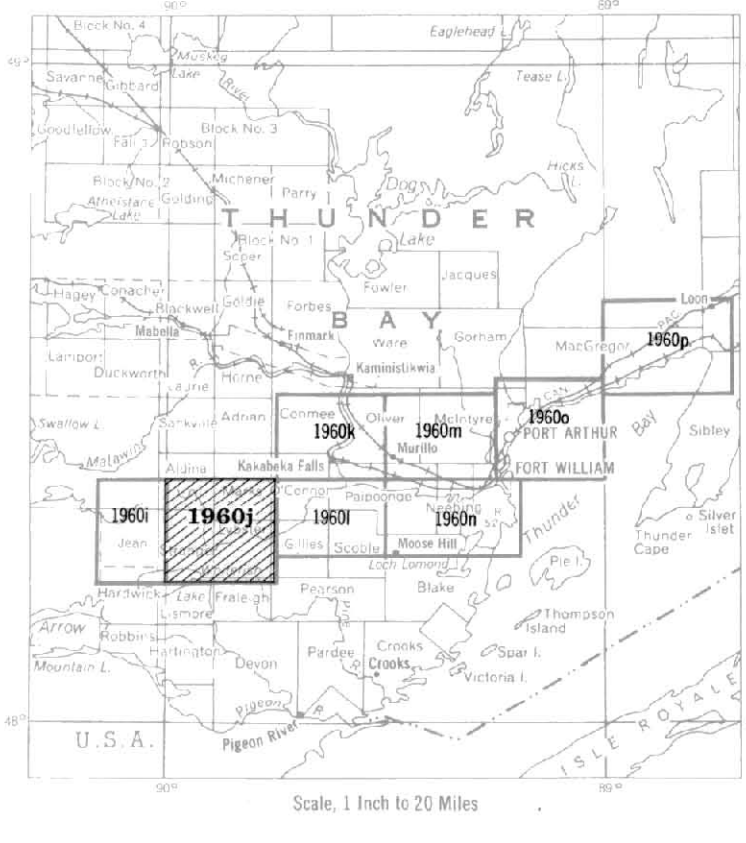
- PRECAMBRIAN**
- KEWEENAWAN**
- INTRUSIVES**
- 6 Dabase.
 - 6b Porphyritic diabase.
 - 6c Anorthositic diabase.
 - 6d Lamprophyric diabase.
 - 6e Syenite.
- INTRUSIVE CONTACT**
- SEDIMENTS**
- 5a Conglomerate.
 - 5b Sandstone.
 - 5c Limestone.
 - 5d Shale.
 - 5e Veined rock.
- UNCONFORMITY**
- ANIMIKIE**
- ROVE FORMATION**
- 4 Rove argillite, greywacke.
- GUNFLINT IRON FORMATION**
Upper and Lower Gunflint named on map face where separable.
- 3a Ferruginous carbonate.
 - 3b Chert.
 - 3c Thin-bedded chert-carbonate.
 - 3d Scaevolar iron formation (hectorite).
 - 3e Hematitic iron formation.
 - 3f Argillite.
 - 3g Chert-carbonate breccia.
 - 3h Basal quartzite conglomerate.
 - 3i Jasper.
 - 3j Weathered iron formation.
 - 3k Recrystallized iron formation.
 - 3l Tuff.
 - 3m Algal chert concretions.
 - 3n Limestone.
- UNCONFORMITY**
- ALGOMAN TYPE**
- 2a Granite.
 - 2b Porphyry.
 - 2c Amphibolite.
 - 2d Granite gneiss.
 - 2e Pegmatite.
 - 2f Syenite and sponkrite.
 - 2g Lamprophyre.
- INTRUSIVE CONTACT**
- KEEWATIN TYPE**
- 1a Pillow lava.
 - 1b Diorite, metabasite.
 - 1c Tuff.
 - 1d Shale greenstone.
 - 1e Gneiss.
 - 1f Micro-andesite.
 - 1g Greywacke.
 - 1h Traps.
 - 1i Diorite, amphibolite (injected).
 - 1j Recrystallized greenstone.
 - 1k Rhyolite.
 - 1l Amphibolite.
 - 1m Biotite diorite.
- bx Breccia**

SOURCES OF INFORMATION
Geology by W. W. Moorhouse and assistants, 1951.
Cartography by O. F. Jope and F. W. Lane, Ontario Department of Mines, 1960.
Base map reproduced by permission of the Ontario Department of Lands and Forests.
Magnetic declination approximately 1° East, 1960.

Map No. 1960k
KAKABEKA FALLS AREA
GUNFLINT IRON RANGE
DISTRICT OF THUNDER BAY

Scale 1:31,680 or 1 Inch to 1/2 Mile





- SYMBOLS**
- Provincial highway.
 - Secondary road.
 - Wagon road, portage, trail.
 - Railway.
 - Electric power transmission line.
 - Building.
 - Township boundary.
 - Cliff feature.
 - Muskeg or swamp.
 - Glacial striae.
 - Small rock outcrop.
 - Boundary of rock outcrop, outcrop area.
 - Geological boundary, approximate.
 - Geological boundary, assumed.
 - Horizontal bedding.
 - Strike and dip.
 - Strike and vertical dip, direction of top unknown.
 - Strike and dip of schistosity.
 - Strike of vertical schistosity.
 - Strike and dip of gneissosity.
 - Strike of vertical gneissosity.
 - Fault, assumed; spot indicates downthrow side.
 - Shaft.
 - Test pit, trench.
 - Drill hole, inclination unknown.
 - q.v. Quartz vein.
 - q.c.v. Quartz-calcite vein.
 - c.v. Calcite vein.

- LEGEND**
- PRECAMBRIAN**
- KEEWENAW**
- INTRUSIVES**
- 6 Diabase
 - 6a Peridotite diorite
 - 6b Xenocrysts in diabase
 - 6c Langsyrhite diabase
 - 6d Syenite
- INTRUSIVE CONTACT**
- SEDIMENTS**
- 5 Conglomerate
 - 5a Sandstone
 - 5b Limestone
 - 5c Shale
 - 5d Veined rock
- UNCONFORMITY**
- ANIMIKIE**
- 4 Rove argillite growth
- GUNFLINT IRON FORMATION**
Upper and Lower Gunflint named on map face where separable.
- 3a Ferruginous carbonate
 - 3b Chert
 - 3c 70m thin-bedded chert carbonate
 - 3d Granular iron formation (taconite)
 - 3e Hematitic iron formation
 - 3f Chert-carbonate breccia
 - 3g Sand quartzite conglomerate
 - 3h Jasper
 - 3i Magnetite iron formation
 - 3j Recrystallized iron formation
 - 3k Agate chert concretions
 - 3l Limestone
- UNCONFORMITY**
- ALGONIAN TYPE**
- 2a Gneiss
 - 2b Amphibolite
 - 2c Granite gneiss
 - 2d Gneiss
 - 2e Syenite and shonkinites
 - 2f Lamprophyre
- INTRUSIVE CONTACT**
- KEEWATIN TYPE**
- 1a Yellow lava
 - 1b Diorite, metabasite
 - 1c Trill
 - 1d Metased greenstone
 - 1e Gneiss
 - 1f Micro andalusite
 - 1g Greywacke
 - 1h Trill
 - 1i Chlorite amphibolite (injected)
 - 1j Recrystallized greenstone
 - 1k Rhyolite
 - 1l Amphibolite
 - 1m Basalt diorite
- bx Breccia**

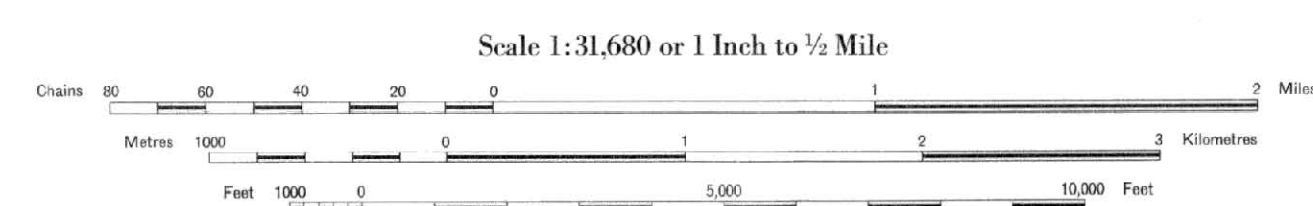
NOTES

The base map is a direct reproduction at a reduced scale of Forest Resources Inventory map 402894 and part of map 402894 of the Ontario Department of Lands and Forests with additional township names added in the border. For forestry and miscellaneous symbols not listed above refer to the Ontario Department of Lands and Forests Manual of Timber Management, Part II.

SOURCES OF INFORMATION

Geology by W. W. MacIsaac and assistants, 1961, and by A. M. Goodwin, 1962.
 Cartography by D. F. Joyce and R. B. Robinson, Ontario Department of Mines, 1960.
 Base map reproduced by permission of the Ontario Department of Lands and Forests.
 Magnetic declination approximately 1° East, 1960.

Map No. 1960j
SILVER MOUNTAIN AREA
GUNFLINT IRON RANGE
 DISTRICT OF THUNDER BAY

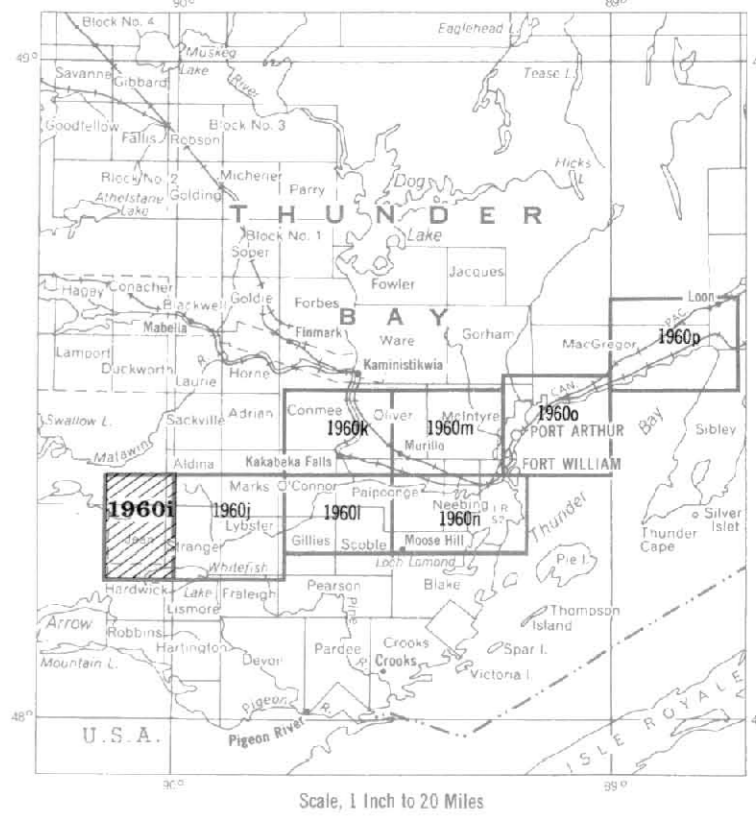
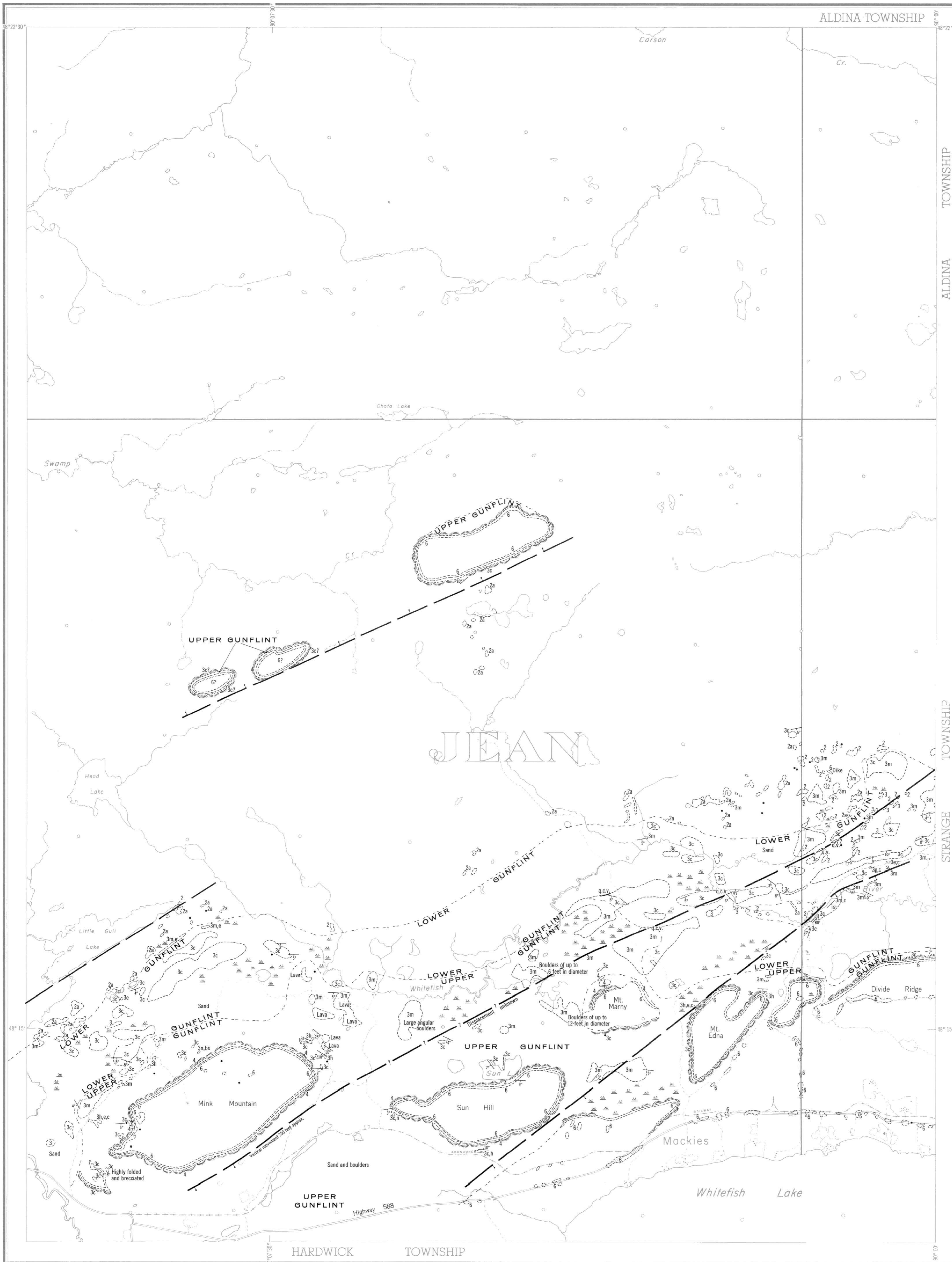




ONTARIO
DEPARTMENT OF MINES

HON. JAMES A. MALONEY, Minister of Mines
H. C. Rickaby, Deputy Minister M. E. Hurst, Provincial Geologist

Map No. 1960i
WHITEFISH LAKE AREA
Gunflint Iron Range



SYMBOLS

- Provincial highway.
- Secondary road.
- Wagon road, portage trail.
- Railway.
- Electric power transmission line.
- Building.
- Township boundary.
- Cliff feature.
- Muck or swamp.
- Glacial stria.
- Small rock outcrop.
- Boundary of rock outcrop, outcrop area.
- Geological boundary, approximate.
- Geological boundary, assumed.
- Horizontal bedding.
- Strike and dip.
- Strike and vertical dip; direction of top unknown.
- Strike and dip of schistosity.
- Strike of vertical schistosity.
- Strike and dip of gneissosity.
- Strike of vertical gneissosity.
- Fault, assumed; spot indicates downthrow side.
- Shaft.
- Test pit, trench.
- Drill hole, inclination unknown.
- Quartz vein.
- Quartz-calcite vein.
- Calcite vein.

LEGEND

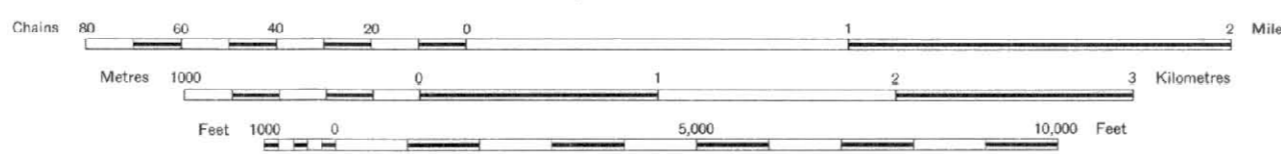
- PRECAMBRIAN**
- KEWEENAWAN**
- INTRUSIVES**
- 6 Diabase
 - 6a Porphyritic diabase
 - 6c Xenocrysts in diabase
 - 6f Amphibole diabase
 - 6e Syenite
- INTRUSIVE CONTACT**
- SEDIMENTS**
- 5 Sandstone
 - 5a Conglomerate
 - 5c Limestone
 - 5d Shale
 - 5e Veined rock
- UNCONFORMITY**
- ANIMIKIE**
- ROVE FORMATION**
- 4 Rare argillite, greywacke
- GUNFLINT IRON FORMATION**
Upper and Lower Gunflint named on map face where separable.
- 3a Ferruginous carbonate
 - 3b Chert
 - 3c Granular iron formation (taconite)
 - 3d Hematite iron formation
 - 3e Argillite
 - 3f Chert-carbonate breccia
 - 3g Basal quartzite conglomerate
 - 3h Jasper
 - 3j Weathered iron formation
 - 3k Recrystallized iron formation
 - 3l Tuff
 - 3m Algal chert concretions
 - 3n Limestone
- UNCONFORMITY**
- ALGONIAN TYPE**
- 2a Granite
 - 2b Porphyry
 - 2c Amphibole
 - 2d Granite gneiss
 - 2e Pegmatite
 - 2f Syenite and shonkinite
 - 2g Lamprophyre
- INTRUSIVE CONTACT**
- KEEWATIN TYPE**
- 1a Flow lava
 - 1b Diorite, meladiorite
 - 1c Tuff
 - 1d Sheared greenstone
 - 1e Gneiss
 - 1f Mica andesite
 - 1g Greywacke
 - 1h Trap
 - 1i Chertic amphibolite (relected)
 - 1k Recrystallized greenstone
 - 1l Rhyolite
 - 1m Amphibolite
 - 1n Biotite diorite
- bx Breccia**

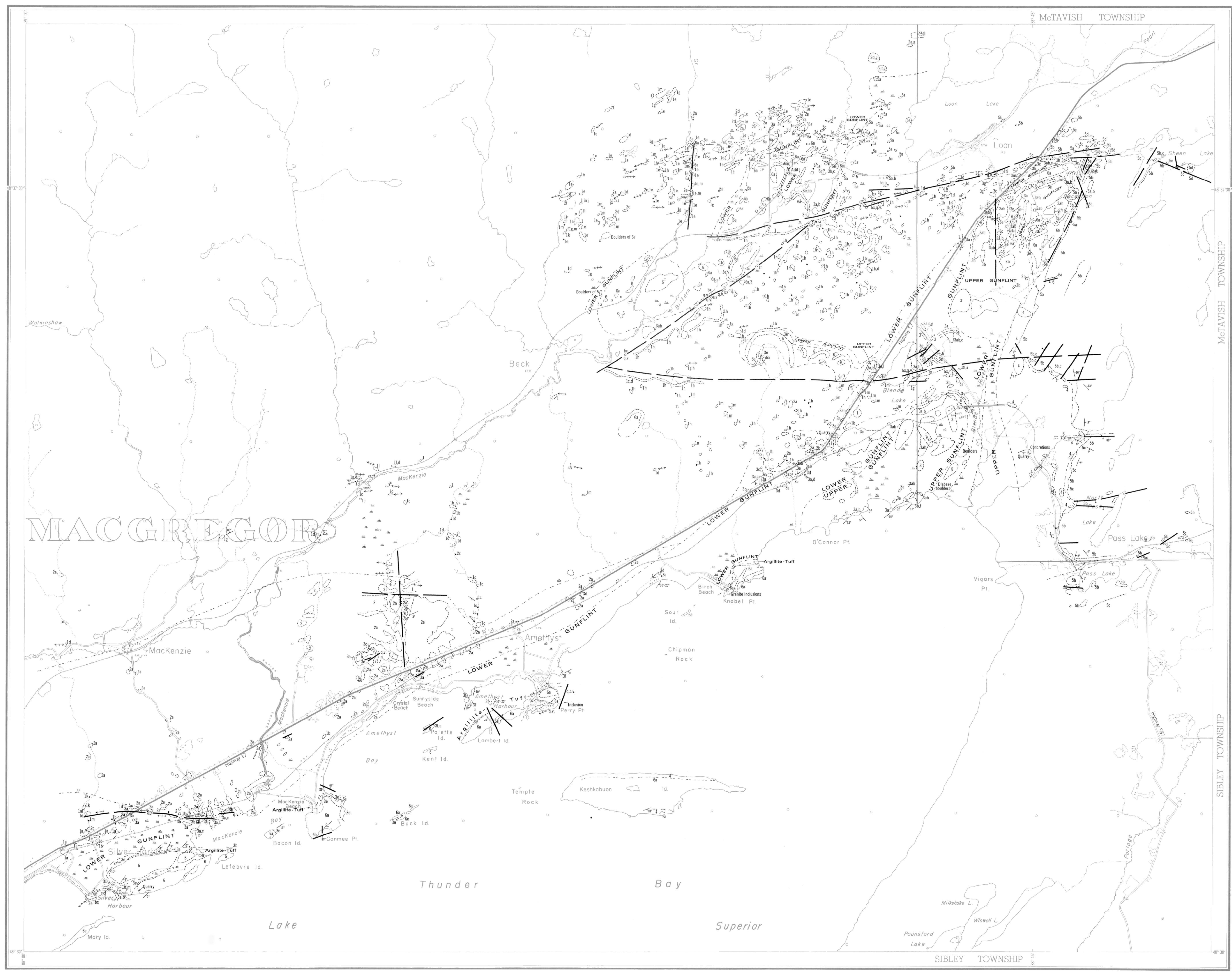
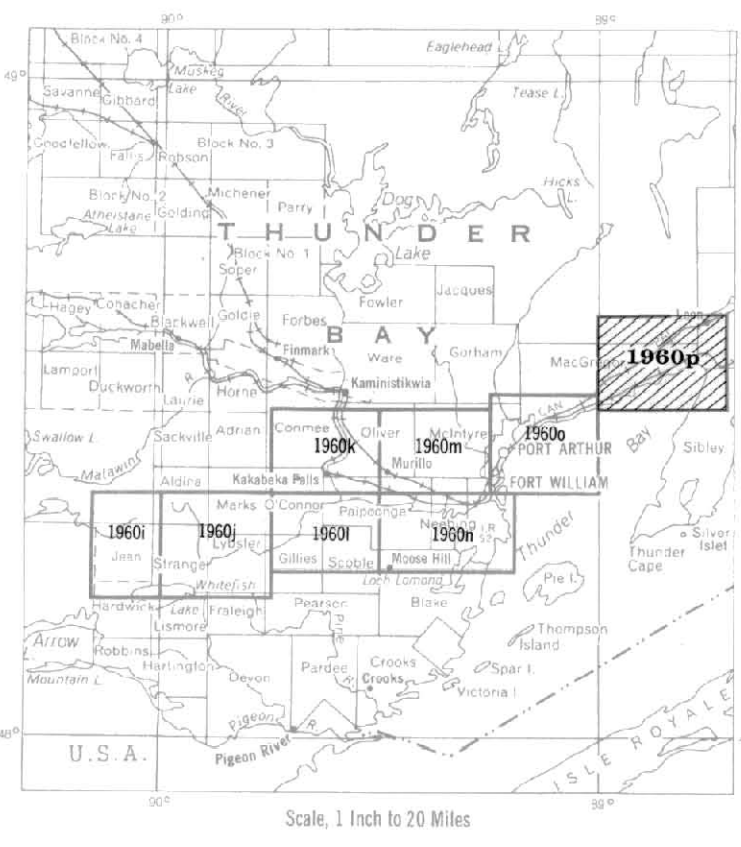
SOURCES OF INFORMATION
Geology by A. M. Goodwin, 1952.
Cartography by D. F. Juse and R. B. Robinson, Ontario Department of Mines, 1960.
Base map reproduced by permission of the Ontario Department of Lands and Forests.
Magnetic declination approximately 2° East, 1960.

NOTES
The base map is a direct reproduction at a reduced scale of parts of Forest Resources Inventory maps 48201 and 48301 of the Ontario Department of Lands and Forests with additional township names added in the border. For forestry and miscellaneous symbols not listed above refer to the Ontario Department of Lands and Forests Manual of Timber Management, Part II.

Map No. 1960i
WHITEFISH LAKE AREA
GUNFLINT IRON RANGE
DISTRICT OF THUNDER BAY

Scale 1:31,680 or 1 Inch to 1/2 Mile





- SYMBOLS**
- Provincial highway.
 - Secondary road.
 - Wagon road, portage, trail.
 - Railway.
 - Electric power transmission line.
 - Building.
 - Township boundary.
 - Cliff feature.
 - Muckheap or swamp.
 - Glacial striae.
 - Small rock outcrop.
 - Boundary of rock outcrop, outcrop area.
 - Geological boundary, approximate.
 - Geological boundary, assumed.
 - Horizontal bedding.
 - Strike and dip.
 - Strike and vertical dip; direction of dip unknown.
 - Strike and dip of schistosity.
 - Strike of vertical schistosity.
 - Strike and dip of gneissosity.
 - Strike of vertical gneissosity.
 - Fault, assumed; spot indicates downthrow side.
 - Shaft.
 - Test pit, trench.
 - Quartz vein.
 - Quartz-calcite vein.
 - Calcite vein.

- LEGEND**
- PRECAMBRIAN**
- KEEWATIN**
- INTRUSIVES**
- 6 Diabase.
 - 6a Porphyritic diabase.
 - 6b Anorthositic diabase.
 - 6c Leprophanitic diabase.
 - 6d Granite.
- INTRUSIVE CONTACT**
- SEDIMENTS**
- 5 Conglomerate.
 - 5a Sandstone.
 - 5b Limestone.
 - 5c Slate.
 - 5d Varved rock.
- UNCONFORMITY**
- ANIMIKIE**
- ROVE FORMATION**
- 4 Rove argillite, greywacke.
- GUNFLINT IRON FORMATION**
Upper and Lower Gunflint named on map face where separable.
- 3a Fine-bedded chert-carbonate.
 - 3b Chert.
 - 3c Granular iron formation (taconite).
 - 3d Hematitic iron formation.
 - 3e Argillite.
 - 3f Chert-carbonate breccia.
 - 3g Basal quartzite conglomerate.
 - 3h Jasper.
 - 3i Weathered iron formation.
 - 3j Recrystallized iron formation.
 - 3k Tuff.
 - 3l Algal chert concretions.
 - 3m Limestone.
- UNCONFORMITY**
- ALGONIAN TYPE**
- 2a Granite.
 - 2b Amphibolite.
 - 2c Gneiss.
 - 2d Gneiss.
 - 2e Gneiss.
 - 2f Lamprophyre.
- INTRUSIVE CONTACT**
- KEEWATIN TYPE**
- 1a Pillow lava.
 - 1b Diabase, meladiorite.
 - 1c Tuff.
 - 1d Cherted gneissites.
 - 1e Gneiss.
 - 1f Gneiss.
 - 1g Gneiss.
 - 1h Gneiss.
 - 1i Gneiss.
 - 1j Diabase amphibolite (injected).
 - 1k Recrystallized gneissite.
 - 1l Rhyolite.
 - 1m Amphibolite.
 - 1n Biotite diorite.
- bx Breccia**

NOTES

The base map is a direct reproduction of a reduced scale of *Recent River and Low Water Map 4960B* and parts of maps 4960A and 4960C of the Ontario Department of Lands and Forests. Symbols for buildings, railways, and other features not listed above refer to the Ontario Department of Lands and Forests Manual of Timber Management, Part I.

SOURCES OF INFORMATION

Geology by W. MacNish and associates, 1950.
Cartography by D. F. Aude and F. W. Low, Ontario Department of Lands and Forests.
Base map reproduced by permission of the Ontario Department of Lands and Forests.
Magnetic declination approximately 0°, 1960.

Map No. 1960p
LOON LAKE AREA
GUNFLINT IRON RANGE
 DISTRICT OF THUNDER BAY

