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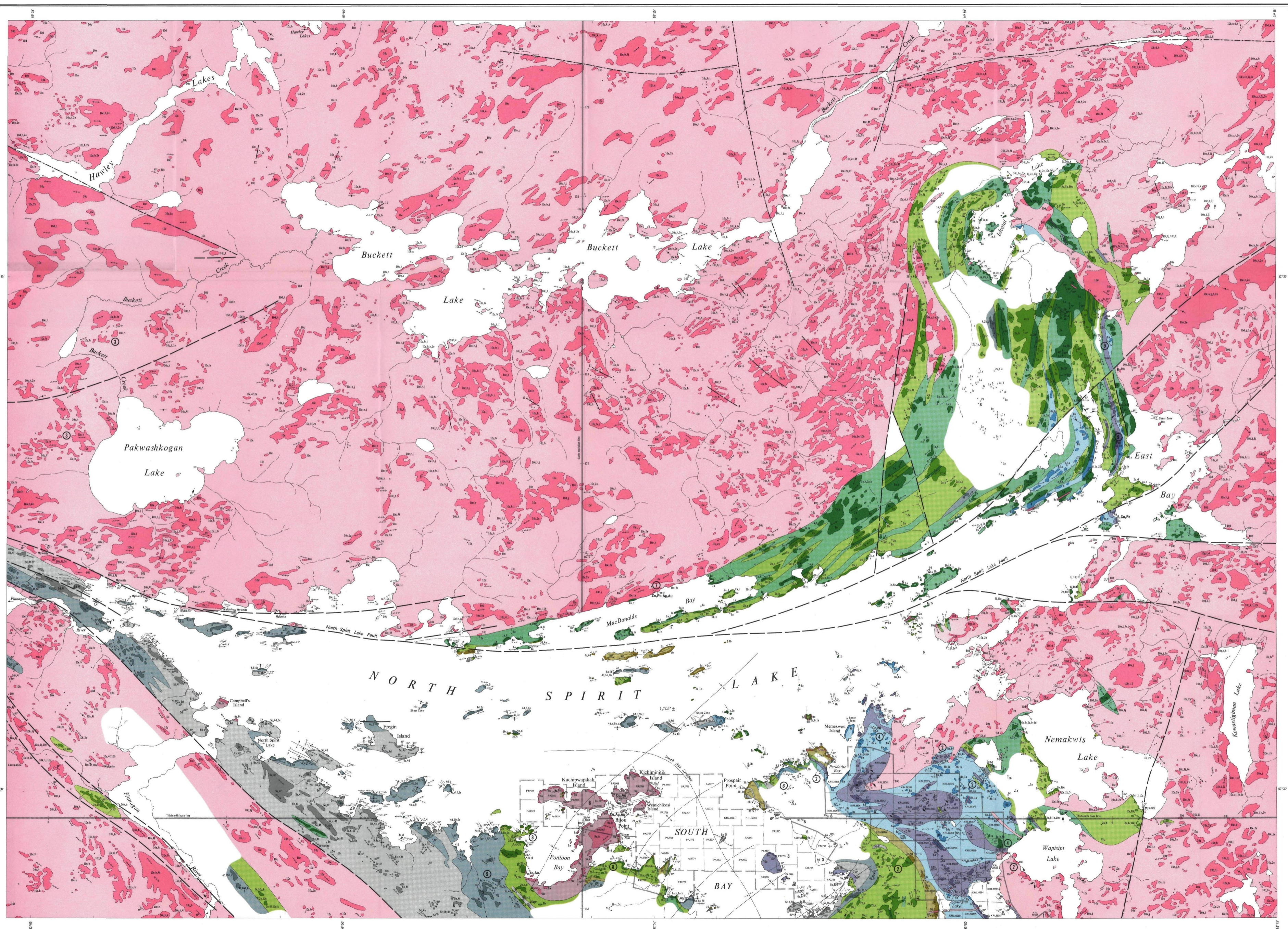
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LEGEND

PHANEROZOIC

CENOZOIC

QUATERNARY

RECENT
Fluvial, lacustrine, and swamp deposits.

PLEISTOCENE
Till, cobble gravel, sand, silt, and clay.

UNCONFORMITY

PRECAMBRIAN

MIDDLE OR LATE PRECAMBRIAN

MAFIC INTRUSIVE ROCKS

12 Diabase.

INTRUSIVE CONTACT

EARLY PRECAMBRIAN (ARCHEAN)

FELSIC AND INTERMEDIATE INTRUSIVE AND METAMORPHIC ROCKS

POST-BATHOLITH DIKE ROCKS

71 Quartz-biotite microdiorite.

INTRUSIVE CONTACT

BATHOLITHIC GRANITIC ROCKS

70a Porphyritic biotite granodiorite.
70b Porphyritic biotite-hornblende granodiorite.
70c Biotite hornblende.
70d Biotite-hornblende iron-sulphide schist.
70e Biotite-hornblende quartz monzonite.
70f Quartz diorite.
70g Quartz diorite.
70h Quartz diorite.
70i Quartz diorite.
70j Muscovite schist.

INTRUSIVE CONTACT

METAMORPHIC SUBVOLCANIC FELSIC AND INTERMEDIATE INTRUSIVE ROCKS

86 Quartz-biotite diorite.
86a Quartz diorite.
86b Diabase granodiorite.
86c Porphyritic quartz feldspar microgranodiorite with quartzite, quartz-biotite microdiorite, (quartz-biotite schist, biotite schist).

INTRUSIVE CONTACT

METAMORPHIC MAFIC AND ULTRAMAFIC ROCKS

87 Unsubdivided.
88 Amphibolite ultramafic rocks (felsic tremolite-serpentine, talc-carbonate chlorite-serpentine).
89 Metamorphosed mafic rocks (amphibolite).
89a Talc schist.

INTRUSIVE CONTACT

METASEDIMENTS

CHEMICAL METASEDIMENTS

Carbonates

72 Carbonate-rich sediments, unsubsidiarized.
73 Precrystallized limestone.
74 Recrystallized dolomite.

Iron Formation and Chert

84 Banded quartz-magnetite iron formation.
85 Ferruginous chert.

CLASTIC METASEDIMENTS

Mudstone

8 Unsubdivided.
90 Argillaceous sediments, unsubsidiarized.
91 Massive shale, argillite, slate.
92 Graded shale, argillite, slate.
93 Muscovite biotite garnet cordierite schist; biotite garnet cordierite schist; biotite cordierite schist.
94 Biotite quartz muscovite schist.

Sandstone

4 Argillaceous sediments, unsubsidiarized.
4a Angular quartz arenite; granular subarkose.
4b Arkose.
4c Massive or thickly bedded lithic arkose.
4d Medium to finely bedded lithic arkose.
4e Graded lithic subarkose wacke-siltstone.
4f Muscovite biotite garnet cordierite schist; biotite garnet cordierite schist; biotite cordierite schist.

Conglomerate

34 Polymictic boulder to granule or discoidal, wacke-mudstone matrix.
35 Polymictic cobble and pebble or discoidal, wacke matrix.
36 Polymictic cobble and pebble arkose-conglomerate, wacke matrix.
37 Conglomerate, arkose matrix.
38 Arkose matrix.

METAVOLCANICS

FELSIC TO INTERMEDIATE METAVOLCANIC

1 Unsubdivided.
2 Flows.
3 Tuff.
4 Lapilli-tuff.
5 Tuff-breccia.
6 Felsic tuffite ± quartz ± muscovite ± hornblende schist.

MAFIC TO INTERMEDIATE METAVOLCANIC

1a Flows.
1b Flowed flows.
1c Amygdaloidal flows.
1d Porphyritic flows.
1e Medium to coarse-grained flows.
1f Biotite flows.
1g Tuff.
1h Feldspar-hornblende ± garnet schist.

Ag Silver.
As Arsenic.
Au Gold.
Cr Chromium.
Cu Copper.
Fe Iron.
Ni Nickel.
Pb Lead.
S Sulphide mineralization.
Zn Zinc.

SYMBOLS

Glacial striae.
Small bedrock outcrop.
Area of bedrock outcrop.
Bedding, top unknown (inclined, vertical).
Bedding, top (arrow) from grain stratification (inclined, vertical, westerly).
Lava flow; top (arrow) from pillow shape and packing.
Schistosity (horizontal, inclined, vertical).
Concretion (horizontal, inclined, vertical).
Foliation (horizontal, inclined, vertical).
Lineation with plunge.
Geological boundary, observed.
Geological boundary, position interpreted.
Fault (observed, assumed). Spot indicates down throw side, arrow indicates horizontal movement.
Lineament.
Building (horizontal, inclined, vertical).
Drag faults with plunge.
Anticline, syncline, with plunge.
Drill hole (vertical, inclined).
Trail, portage, winter road.
Building.
Meridian or base line with mileposts, approximate position only.
Mining property, surveyed. Boundary approximate position only.
Mineral deposit; mining property, unsurveyed.
Surveyed line, approximate position only.

- PROPERTIES, MINERAL DEPOSITS**
- Crown Trust Co. Ltd.
 - Dickenson Mines Ltd.
 - Keevil Mining Group Ltd. (1970)
 - McBean Investments Ltd.
 - Noranda Exploration Co. Ltd. (1970)
 - Prospector Airways Co. Ltd. (1937)
 - Silver Spirit Mines occurrence.
 - Spirit Lake Mines Ltd.
 - Upper Canada Mines occurrence.
- Information current to December 31st, 1971. Former properties are shown as open for staking are only shown where available. Information is available on a date in square brackets indicates last year of exploration activity. For further information see report.

- SOURCES OF INFORMATION**
- Geology by J. Wood and assistants, Geological Branch, 1971.
Geology not tied to surveyed lines.
Unsurveyed maps and reports of mining companies.
Aeromagnetic maps, ODM-GSC:
8570, Margat Lake.
8660, Whitecourt Lake.
8770, Howitt Lake.
8780, North Spirit Lake.
Preliminary maps, ODM:
P120, North Spirit Lake area, Western part.
P120, North Spirit Lake area, Eastern part.
Scale 1 inch to 1 mile, issued 1971.
Cartography by D. Tanche and assistants, Surveys and Mapping Branch, 1971.
Base maps derived from maps of the Forest Resources Inventory, Surveys and Mapping Branch, with additional information by J. Wood.
Magnetic declination in the area was approximately 4° E, 1971.

Map 2362
NORTH SPIRIT LAKE
 KENORA DISTRICT
 Scale 1:31,680 or 1 Inch to 1/2 Mile

Chains 80 60 40 20 0 20 40 60 80 Miles
 Metres 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 Feet