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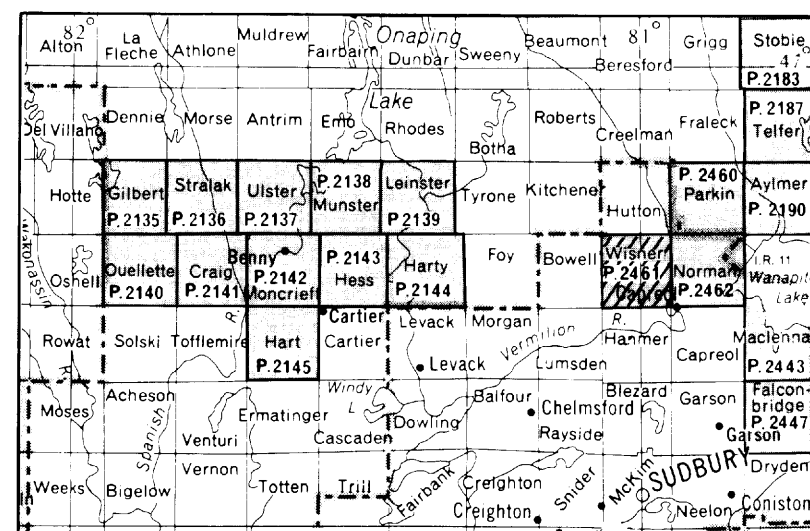
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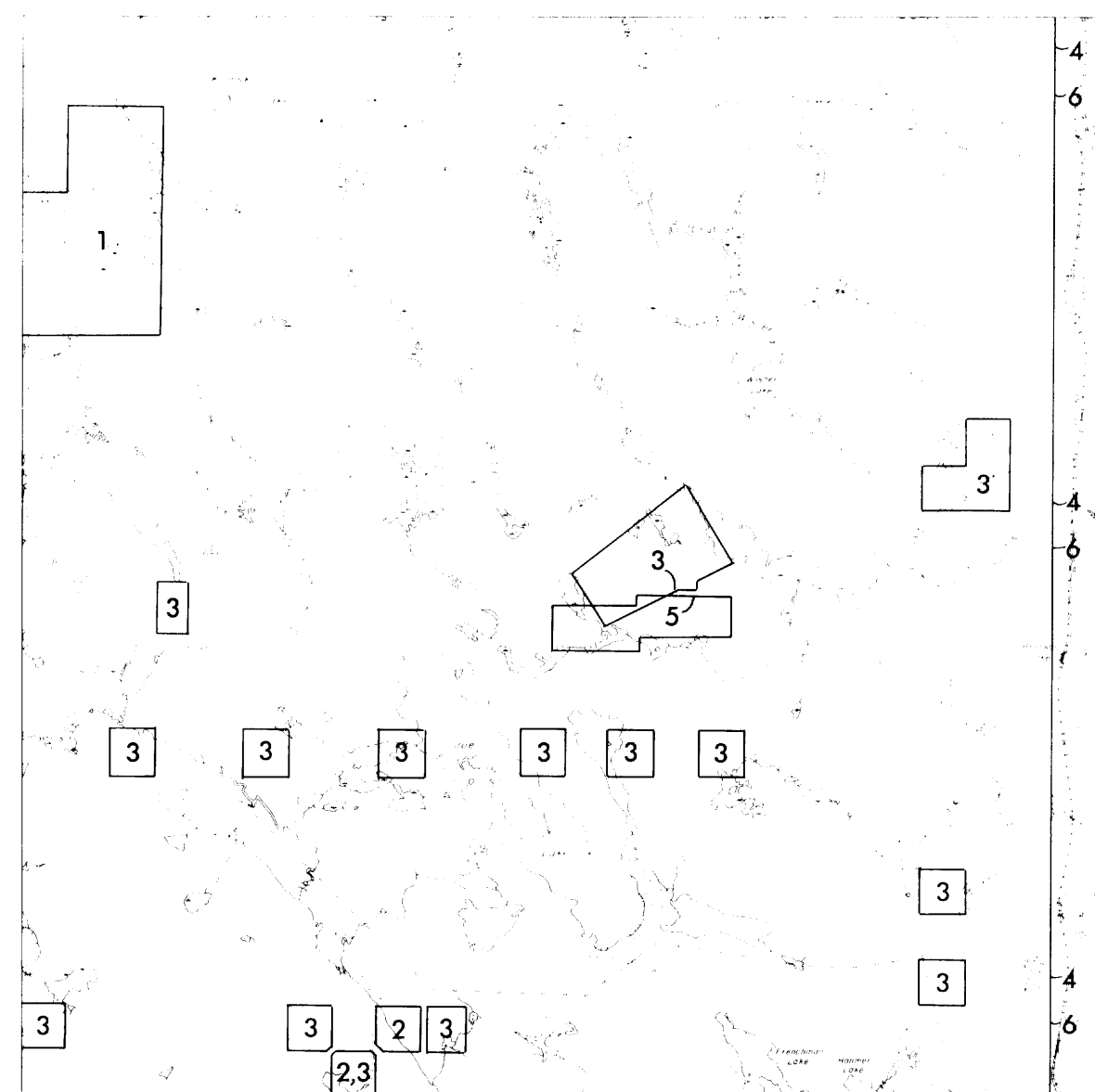
INDEX MAP Scale: 1:101,340 or 1 inch to 16 miles

Sudbury Data Series Maps Published in this Area.

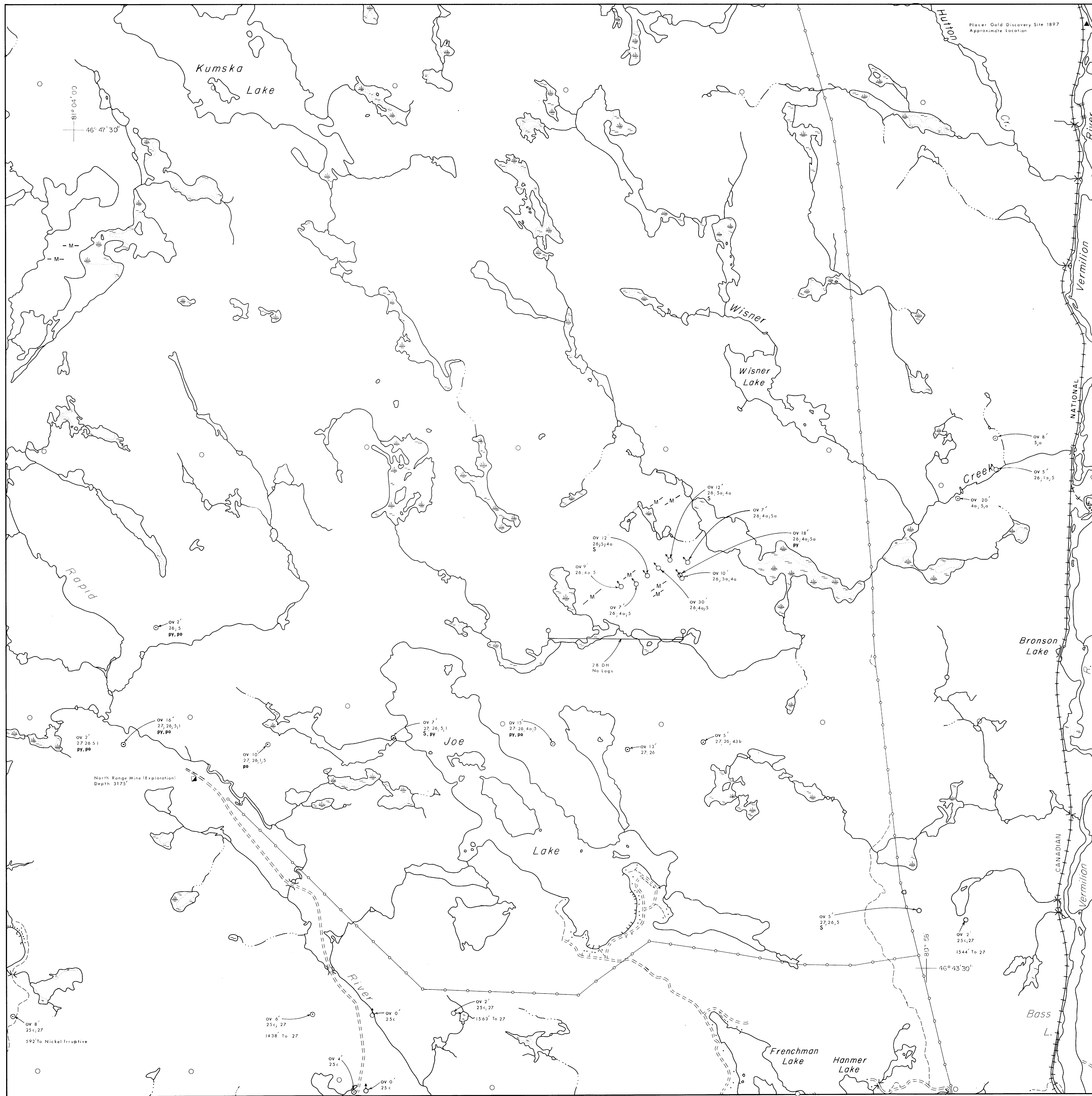
| DATA FILED WITH THE RESIDENT GEOLOGIST ONTARIO MINISTRY OF NATURAL RESOURCES SUDBURY To September 8, 1981 | TYPE OF WORK | | | | | | | | | | | | | | | |
|---|--------------|--|--------------|-------------------------|---------------------------|--------------|-----------------|-----------------|--------------|--------------|----------------|-------------|---------|-------------|-----------|------------------------|
| | GEOLOGICAL | DIAMOND DRILLING | COKE SAMPLES | AIRBORNE PHOTOGRAMMETRY | AEROBORNE ELECTROMAGNETIC | RADIO-METRIC | GROUND MAGNETIC | GROUND MAGNETIC | RADIO-METRIC | POLARIZATION | SELF POTENTIAL | RESISTIVITY | GRAVITY | GEOCHEMICAL | TRENCHING | OTHERS |
| 1 Copper Man Mines Ltd. | | | | | | | | | | | | | | | | |
| 2 Dennis, R. C. | | 61 | | | | | | | | | | | | | | |
| 3 International Nickel Company of Canada Ltd. (Inco Ltd.) | 46 | 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72 | | | | | | | | | | | | | | 66, 67, 68, 69, 70, 71 |
| 4 Onwatin Placer Mining Syndicate | | | | | | | | | | | | | | | | 39, 40, 41, 42 |
| 5 Ryanor Mining Company Ltd. | 60, 61 | 60, 61 | | | | | | | | | | | | | | 58, 59 |
| 6 Van Milligan Gold Placer Mining Company Ltd. (Onwatin Placer Gold, Concord, Chibougamau, Kamis Uranium Mines, Carleton Place) | 58 | | | | | | | | | | | | | | | 58, 59 |

- No Data.
- Underground Drilling, North Range Mine.
- No Data.
- Shaft Sinking, North Range Mine.
- Gold Placer Test Pitting and Drilling along Vermilion River. No Data.
- Drilling (type unknown). No Data.

Note: The numbers on the above list stand for the year when the work was done, e.g., 66 for 1966. On the accompanying DATA LOCATION MAP, only areas for which work was submitted to the Ministry are outlined, and thus a company may hold more ground than indicated here. The numbers on the DATA LOCATION MAP and any circled numbers refer to the company above.



DATA LOCATION MAP Scale: 1:63,360



LEGEND^A

PHANEROZOIC
CENOZOIC
QUATERNARY
PLEISTOCENE AND RECENT
 46 Sand, gravel, clay, boulder till, swamp deposits.

UNCONFORMITY
SUPERIOR, SOUTHERN, AND GRENVILLE PROVINCES
PRECAMBRIAN
LATE PRECAMBRIAN
MAFIC INTRUSIVE ROCKS^B
 43 Unsubdivided.
 43a Diabase, quartz diabase dikes.
 43b Olivine diabase dikes.
 43c Gabbro, norite, pyroxenite, peridotite stocks.
 43d Partly serpentinized peridotite and minor olivine gabbro stocks.

FELSIC INTRUSIVE ROCKS
 39 Quartz monzonite, minor granodiorite and derived gneisses.

SUPERIOR AND SOUTHERN PROVINCES
MIDDLE PRECAMBRIAN
INTRUSIVE CONTACT
SUDBURY NICKEL IRRUPTIVE
 27 Granophyre.
 26 Norite-gabbro, quartz norite, quartz gabbro and transition, sublayer, and offset rocks.

INTRUSIVE CONTACT
WHITEWATER GROUP
 Chelmsford Formation
 25a Greywacke, minor siltstone.
 Onwatin Formation
 25b Carbonaceous siltstone.
 Onaping Formation
 25c Lapilli tuff, breccia, felsic flows and intrusions, and minor carbonate and cherty rocks.

NIPISSING DIABASE
 24 Unsubdivided.
 24a Pyroxene gabbro, minor pyroxenite.
 24b Hornblende gabbro, metagabbro, amphibolite.
 24c Granophyre.

HURONIAN SUPERGROUP^C
COBALT GROUP
 Gowanda Formation
 19 Conglomerate, sandstone, siltstone, and argillite.
QUIRKE LAKE GROUP
 Serpent Formation
 18 Quartz-feldspar sandstone with minor siltstone, calcareous siltstone, and conglomerate.
 Espanola Formation
 17 Limestone, dolostone, siltstone, and sandstone.
 Bruce Formation
 16 Conglomerate with minor sandstone and siltstone.
HOUGH LAKE GROUP
 Missisagi Formation
 15 Quartz-feldspar sandstone with minor siltstone, argillite, and conglomerate.

MAFIC INTRUSIVE ROCKS
 6 Unsubdivided.
 6a Gabbro, anorthositic gabbro, gabbroic anorthosite and metamorphosed equivalents.
 6b Metagabbro and porphyritic metagabbro dikes.

UNCONFORMITY, INTRUSIVE CONTACT
EARLY PRECAMBRIAN
FELSIC INTRUSIVE AND METAMORPHIC ROCKS
 5 Unsubdivided granitic and migmatitic rocks.
 5a Quartz monzonite, granite, granodiorite, trondhjemite, syenite and minor pegmatite and apatite.
 5b Predominantly migmatitic metavolcanics and metametavolcanic rocks.
 5c Trondhjemite, granodiorite, and minor quartz monzonite and quartz diorite.
 5d Felsite, quartz and feldspar porphyry, trondhjemite, granodiorite.

INTRUSIVE CONTACT
MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS
 4 Unsubdivided.
 4a Quartz diorite, diorite.
 4b Pyroxenite, peridotite, dunite, serpentinite.
 4c Lamprophyre, carbonatite dikes and intrusive breccia^D.

INTRUSIVE CONTACT
METASEDIMENTS
 3 Greywacke, siltstone, chert, and arkose with minor metavolcanic rocks and derived migmatites.

METAVOLCANICS
 Felsic To Intermediate Metavolcanics
 2 Unsubdivided.
 2a Rhyolite, dacite flows with minor felsic intrusions and felsic pyroclastics.
 2b Felsic to intermediate pyroclastics - tuff, breccia, and agglomerate - with minor flows, metasediments and intrusive rocks, and derived migmatites.

Mafic To Intermediate Metavolcanics
 1 Unsubdivided.
 1a Basalt and andesite flows with minor mafic pyroclastics and mafic intrusions.
 1b Interflow metasediments and mafic pyroclastics.

IF Iron formation and ferruginous chert (associated with units 3, 32, 33, 34, 35).
Sch Schist.
bx Breccia.

MINERAL AND METAL ABBREVIATIONS
 py Pyrrhotite
 py Pyrite
 S Sulphide

SYMBOLS
 Diamond drillhole (vertical, inclined). Overburden shown.
 Shaft.
 Mineral occurrence at surface.
 Ground magnetic anomaly.

NOTES:
 Overburden shown is the in-hole depth.
 If overburden is not shown, no information is available.
 All geological units are recorded in order of lithological occurrences.
 No log is available if none is shown.

SOURCES OF INFORMATION
 Base map derived from the Forest Resources Inventory maps, Lands and Waters Group, Ontario Ministry of Natural Resources.
 Placer Gold in Vermilion River. Ontario Department of Mines, Annual Report, 1920, p. 122, 123, 124, 125, by A.H. Searby.
 Carleton Area, Western Part, District of Sudbury, Ontario Geological Survey, Preliminary Map P.2377, by T. L. Muir, Zlata Rebec, and B. O. Dressler, 1980. Scale 1:15,840 or 1 inch to 1/2 mile.
 Metric Conversion Factor: 1 foot = 0.3048 m.

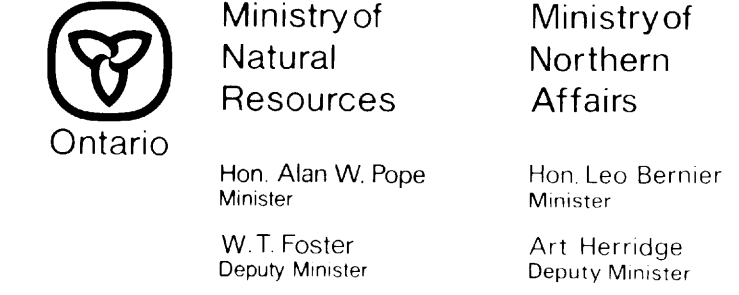
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This compilation project is part of the Northern Ontario Geological Survey program and is funded by the Ontario Ministry of Natural Resources.

Issued 1982

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A This legend is derived from Map 2381, Revised, Sudbury-Cobalt Geological Compilation Series, Revised 1974, 1975.
B Only the thickest, most extensive Cenozoic deposits in which bedrock outcrops are absent or scarce are shown as coded, uncoloured areas.
C Some may be of Phanerozoic age.
D The Huronian rocks are weakly to moderately metamorphosed, but as original lithological characteristics are generally well preserved, sedimentary rock designations are used.
E Too small to be shown at map scale.



ONTARIO GEOLOGICAL SURVEY
 MAP P.2461
 SUDBURY DATA SERIES - PRELIMINARY MAP
WISNER TOWNSHIP
 SUDBURY DISTRICT

Scale: 1:15,840
 NTS Reference: 41 1/10W, 11E, 14E, 15W
 ODM-GSC Aeromagnetic Maps: 1511G, 1512G, 1518G, 1519G
 ODM Geological Compilation Series Map: 2361 (Rev.)

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