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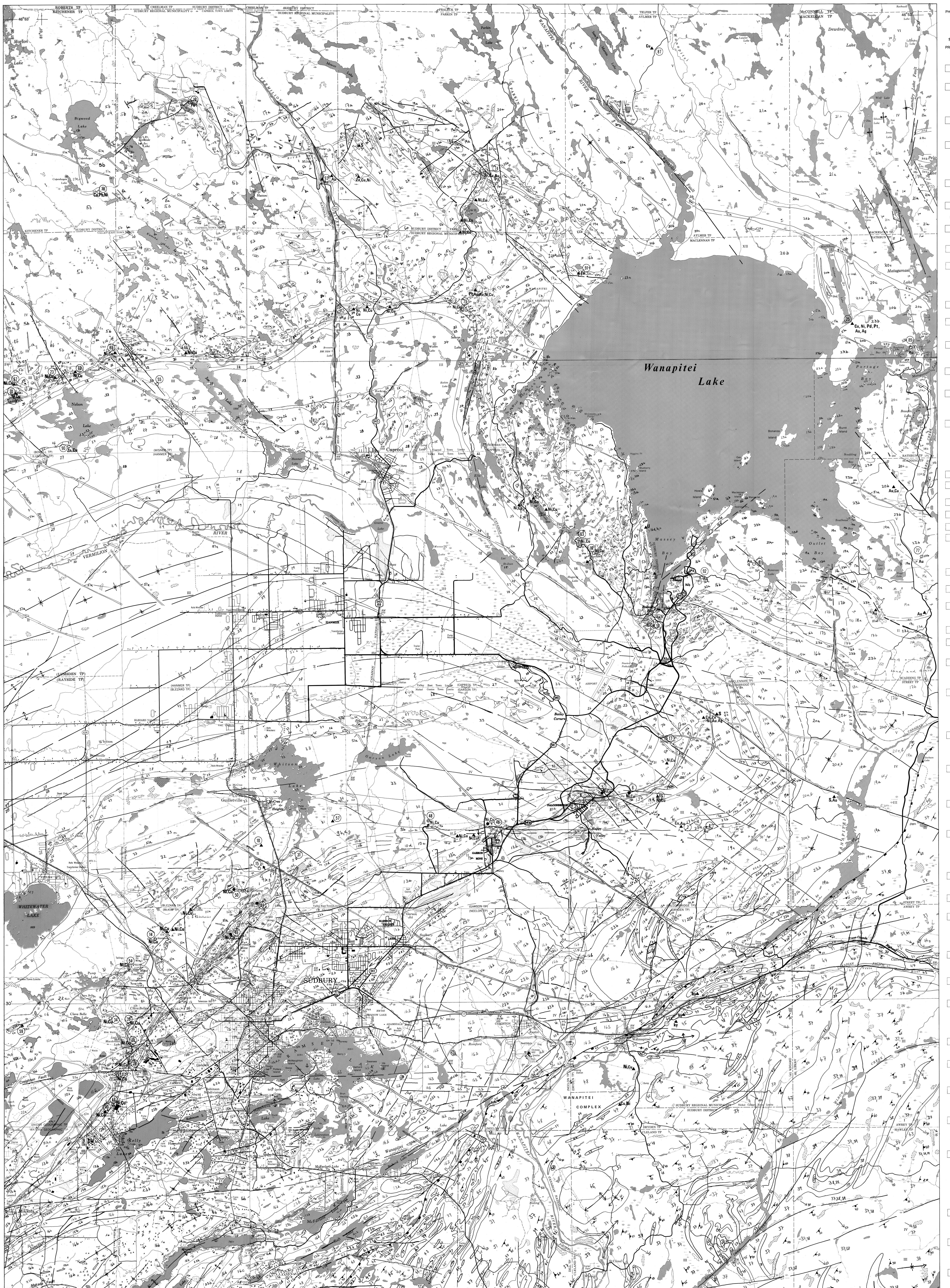
It is recommended that reference to the Content be made in the following form:

Dressler, B. 1983. Sudbury Mining area, eastern part, Sudbury District; Ontario Geological Survey, Preliminary Map P.2603, scale 1:50 000.

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LEGEND

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

SUPERIOR, SOUTHERN, AND GRENVILLE PROVINCES

PRECAMBRIAN
MIDDLE PROTEROZOIC[l]
MAFIC INTRUSIVE ROCKS
DIABASE DIKES

51 — 51a Olivine diabase[a]; 51b Diabase

MAFIC TO ULTRAMAFIC STOCKS

50 — 50a Partly serpentinized peridotite and rare olivine diabase

INTRUSIVE CONTACT

GRENVILLE PROVINCE

LATE PEGMATITE

49 — 49 Massive granite pegmatite

HIGH RANK REGIONAL METAMORPHISM

LATE MAFIC INTRUSIVE ROCKS

48 — 48 Massive to cataclastic metagabbro, metadiorite and minor ultramafic rocks cut by massive to cataclastic dikes of trondhjemite, granodiorite, and quartz monzonite

INTRUSIVE CONTACT

ANORTHOSITE SUITE INTRUSIVE ROCKS
ANORTHOSITE AND RELATED MAFIC ROCKS

47 — 47 Gneissic to rarely massive anorthosite, gabbroic anorthosite and anorthositic gabbro, minor tonalite and diorite

MONZONITIC TO GRANITIC ROCKS

46 — 46 Gneissic to rarely massive syenite, monzonite, quartz syenite, quartz monzonite, minor tonalite

EARLY TO MIDDLE PROTEROZOIC[m]
EARLY MAFIC INTRUSIVE ROCKS

45 — 45 Gneissic gabbro and minor diorite

EARLY PROTEROZOIC[n]
EARLY PEGMATITE

44 — 44 Gneissic granite pegmatite

GRANITIC INTRUSIVE ROCKS

43 — 43 Quartz monzonite, granodiorite, trondhjemite (includes Grenville Front Felsic Plutons north and south of the Grenville Front Boundary Fault)

INTRUSIVE AND METAMORPHIC CONTACT

METASEDIMENTS
CALCAREOUS METASEDIMENTS[b,c]
Carbonate Metasediments

42 — 42 Calcitic and dolomitic marble

Hornblende Gneiss

41 — 41 Calcsilicate gneiss, minor amphibolite (derived from calcareous sandstone and siltstone)

CLASTIC SILICEOUS METASEDIMENTS[b]
Muscovite and Quartzose Gneiss

40 — 40 Aluminous meta-argillite (sillimanite-bearing garnet-kyanite-muscovite-biotite-plagioclase-quartz gneiss) and meta-argillite with intercalated metasubarkose and meta-arkose

Feldspathic Gneiss

39 — 39 Meta-arkose (pink, plagioclase-K-feldspar-quartz gneiss and minor grey, quartz plagioclase gneiss)

Biotite Gneiss

38 — 38 Fine-, medium-, to coarse-grained metawacke (garnetiferous, biotite-quartz-plagioclase gneiss) and thickly bedded, intraformational metaconglomerate containing meta-arkose fragments in a metawacke matrix

Migmatitic Biotite Gneiss

37 — 37 Similar to map-unit 7, but veined by 10% or more granitic mobilizate; in places containing beds of feldspathic muscovite and quartz gneiss; in places sills and dikes of gneissic gabbro

SOUTHERN PROVINCE

LOW TO MEDIUM RANK REGIONAL METAMORPHISM

SUDBURY STRUCTURE
MAFIC INTRUSIVE ROCKS

36 — 36 Trap dikes[d]

35 — 35 Gabbroic rocks (Sudbury Basin)[e]

SUDBURY IGNEOUS COMPLEX

34 — 34 Sublayer[f] (marginal sublayer and offsets; inclusion and sulphide-bearing gabbroic rock)

33 — 33 Upper Zone (granophyre and plagioclase-rich granophyre)

32 — 32 Middle Zone (quartz gabbro)

31 — 31 Lower Zone (north range: felsic norite and mafic norite; south range: norite and quartz-rich norite)

INTRUSIVE CONTACT

WHITEWATER GROUP
Chelmsford Formation

30 — 30 Wacke

Onwatin Formation

29 — 29 Carbonaceous and pyritic mudstone

Onaping Formation

28 — 28 Black Member: a variety of heterolithic breccias consisting of fragments of Early and Middle Precambrian igneous, metamorphic and sedimentary rocks and of glass fragments, of one or more types in a black to dark grey matrix

27 — 27 Grey Member: as map-unit 28; greenish grey to greyish green matrix

26 — 26 Onaping Melt: aphanitic, fluidal or fine- to medium-grained igneous textured rocks with or without Early and Middle Precambrian igneous, metamorphic, or sedimentary rock fragments

25 — 25 Basal Member: a variety of monolithic to heterolithic breccias consisting of fragments of Early and Middle Precambrian igneous, metamorphic, and sedimentary rocks in a fine-grained recrystallized matrix

FOOTWALL BRECCIA AND SUDBURY BRECCIA[g]

24 — 24a Footwall breccia (heterolithic breccia containing footwall rock fragments set in a contact metamorphic, granoblastic, in places granophyric matrix); 24b Sudbury Breccia (pseudotachylite)

SUDBURY EVENT

MAFIC INTRUSIVE ROCKS
NIPISSING INTRUSIVE ROCKS

23 — 23a Unsubdivided; 23b Gabbro; 23c Pegmatite, granophyric gabbro; 23d Granodiorite

INTRUSIVE CONTACT

CREIGHTON, MURRAY, AND SKEAD PLUTONS

22 — 22a Quartz monzonite, granite; 22b Remobilized granitic rocks[h]

INTRUSIVE CONTACT

HURONIAN SUPERGROUP
COBALT GROUP
Lorrain Formation

21 — 21a Arkose, subarkose, minor subarkosic wacke and quartz wacke; 21b Quartz wacke; 21c Wacke; 21d Quartz and jasper pebble conglomerate

Gowganda Formation

20 — 20a Unsubdivided, mainly wacke; 20b Wacke (unlaminated); 20c Wacke (laminated); 20d Arkose; 20e Conglomerate

LOCAL UNCONFORMITY

QUIRKE LAKE GROUP
Serpent Formation

19 — 19a Arkose, arkosic wacke, calcareous arkose; 19b Wacke; 19c Conglomerate, pebbly wacke

Espanola Formation

18 — 18a Calcareous siltstone, limestone, calcareous wacke

Bruce Formation

17 — 17a Unsubdivided; 17b Conglomerate; 17c Wacke; 17d Arkose

LOCAL DISCONFORMITY

HOUGH LAKE GROUP
Mississagi Formation

16 — 16a Unsubdivided; 16b Arkose, subarkose, arkosic wacke; 16c Wacke; 16d Conglomerate

Pecors Formation

15 — 15a Unsubdivided; 15b Wacke; 15c Arkose, conglomeratic arkose

Ramsay Lake Formation

14 — 14a Unsubdivided; 14b Conglomerate; 14c Arkose; 14d Wacke

LOCAL DISCONFORMITY

ELLIOT LAKE GROUP
McKim Formation

13 — 13a Unsubdivided; 13b Wacke, silty mudstone; 13c Arkose

Matinenda Formation

12 — 12a Unsubdivided; 12b Arkose; 12c Wacke; 12d Conglomerate

Copper Cliff Formation

11 — 11a Unsubdivided; 11b Rhyolite, dacite; 11c Felsic pyroclastic rocks; 11d Basalt; 11e Wacke

Stobie Formation

10 — 10a Unsubdivided; 10b Massive and pillowed basalt; 10c Mafic pyroclastic rocks; 10d Wacke; 10e Arkose; 10f Felsic to intermediate volcanics

Elsie Mountain Formation

9 — 9a Unsubdivided; 9b Massive and pillowed basalt; 9c Mafic pyroclastic rocks; 9d Wacke; 9e Arkose; 9f Felsic to intermediate volcanics

INTRUSIVE CONTACT-UNCONFORMITY

SUPERIOR PROVINCE

ARCHEAN[o]
MAFIC INTRUSIVE ROCKS
DIABASE DIKES[i]

8 — 8a Unsubdivided; 8b Diabase; 8c Glomeroporphyritic, porphyritic diabase

INTRUSIVE CONTACT

MAFIC PLUTONIC ROCKS[j]

7 — 7a Gabbro; 7b Anorthosite

INTRUSIVE CONTACT

MIGMATITES AND FELSIC PLUTONIC ROCKS
MIGMATITES[k]

6 — 6a Metatexite, diatexite, rocks similar to map-units 1 to 4, veined by 30% or more granitic mobilizate

FELSIC PLUTONIC ROCKS

5 — 5a Unsubdivided granitic rocks; 5b Equigranular, medium- to coarse-grained quartz monzonite, granodiorite, diorite, granite; 5c Porphyritic, medium- to coarse-grained quartz monzonite, granodiorite, granite

INTRUSIVE CONTACT

METAVOLCANICS AND METASEDIMENTS[b]
METASEDIMENTS

4 — 4a Unsubdivided; 4b Wacke; 4c Chert; IF Iron Formation

METAVOLCANICS
Intermediate and Felsic Metavolcanics

3 — 3a Unsubdivided; 3b Flows; 3c Pyroclastic rocks

Mafic Metavolcanics

2 — 2a Unsubdivided (amphibolite and mafic schist); 2b Massive and pillowed flows; 2c Pyroclastic rocks

GNEISS COMPLEX[b]
GNEISSES

1 — 1a Medium – grained, grey, pyroxene, pyroxene-hornblende, and hornblende-plagioclase-quartz gneisses of granodiorite composition (typical "Levack Gneiss"); 1b Medium grained, dark to dark grey pyroxene-hornblende-rich-plagioclase gneiss ("mafic Levack Gneiss"); 1c Medium grained, grey biotite-plagioclase-quartz (± hornblende, garnet) gneiss

NOTES:
a) In Southern and Superior Provinces only.
b) Rocks of these groups are subdivided lithologically and the order does not imply age relationships within the groups.
c) Units 37 to 42 not in stratigraphic order.
d) Possibly related to Sudbury Structure, intrudes Sudbury Igneous Complex; absolute age unknown.
e) In places similar to north range norite; in most places strongly altered; post-deposition of Chelmsford Formation.
f) Intrudes norite of Sudbury Igneous Complex, absolute age unknown.
g) There is some evidence suggesting common origin. Most Sudbury Breccia occurrences are shown by Δ on map.
h) Remobilization related to intrusion of Sudbury Igneous Complex. Probably in part includes late differentiates of Sudbury Igneous Complex.
i) Absolute age unknown.
j) The absolute age of these rocks is not known and their lithostratigraphic position is controversial.
k) In this map-unit migmatitic rocks derived from rocks of map-units 1, 2, 3 and 4 are grouped together.
l) Age approximately 1.6 to 0.9 b.y.
m) Age approximately 2.5 to 0.9 b.y.
n) Age approximately 2.5 to 1.6 b.y.
o) Older than 2.5 b.y.

Ministry of Natural Resources
Ontario
Hon. Alan W. Pope, Minister
W.T. Foster, Deputy Minister

ONTARIO GEOLOGICAL SURVEY
MAP P.2603
COMPILATION SERIES-PRELIMINARY MAP

SUDBURY MINING AREA EASTERN PART

SUDBURY DISTRICT

Scale 1:50 000

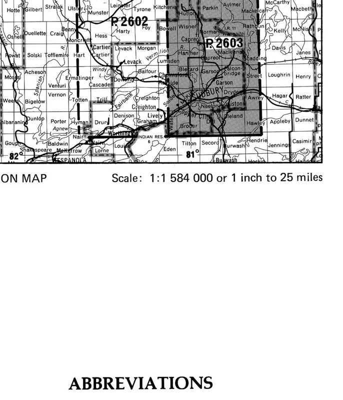
Mile 1 — 0 — 1 Mile
Metres 1000 — 0 — 1 Kilometre

NTS References: 41I/6,7,10,11,14,15
ODM-GSC Aeromagnetic Maps: 1510G, 1511G, 1512G, 1517G, 1518G, 1519G
OGS Geological Compilation Map: 2361

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LOCATION MAP — Scale: 1:1 584 000 or 1 inch to 25 miles

ABBREVIATIONS

Ag	Silver
Au	Gold
Cu	Copper
Fe	Iron
grf	Gersdorffite
ky	Kyanite
Ni	Nickel
Pb	Lead
Pd	Palladium
Pt	Platinum
S	Sulphide mineralization
U	Uranium
Zn	Zinc

NOTE:
By-products of the nickel-copper mines associated with the Sudbury Complex are cobalt, gold, iron, palladium, platinum, selenium, silver, and tellurium.
Not all abbreviations may occur on this sheet.

SOURCES OF INFORMATION

GEOLOGICAL MAPS

1 Hyman and Drury Townships, Sudbury District, Ontario Department of Mines, Map 2055, by K.D. Card, 1965, scale 1:31680 or 1 inch to ½ mile.
2 Denison-Waters Area, Sudbury District, Ontario Department of Mines Map 2119, by K.D. Card, 1967, scale 1:31680 or 1 inch to ½ mile.
3 Sudbury-Manitoulin, Sudbury and Manitoulin Districts, Ontario Geological Survey, Map 2360, by K.D. Card, 1978, scale 1:126720 or 1 inch to 2 miles. Geology 1965-1973.
4 Geneva Lake, Sudbury District, Ontario Geological Survey, Map 2435, by K.D. Card and D.G. Innes, 1981, scale 1:31360 or 1 inch to ½ mile. Geology 1974.
5 Leinster and Harty Townships, Sudbury District, Ontario Department of Mines, Map 2132, by K.D. Card and H.D. Meyn, 1968, scale 1:31680 or 1 inch to ½ mile. Geology 1964, 1965.
6 Tyrone and Foy Townships, Sudbury District, Ontario Department of Mines, Map 2133, by K.D. Card and H.D. Meyn, 1968, scale 1:31680 or 1 inch to ½ mile.
7 Kitchener and Bowell Townships, Sudbury District, Ontario Department of Mines, Map 2134, by K.D. Card and H.D. Meyn, 1968, scale 1:31680 or 1 inch to ½ mile.
8 Precambrian Geology of Ermatinger, Hart, and Totten Townships, Sudbury District, Ontario Geological Survey, Preliminary map in preparation, by A.G. Choudhry, scale 1:15840 or 1 inch to ¼ mile. Geology 1982.
9 Precambrian Geology of Levack Township, Sudbury District, Ontario Geological Survey, Preliminary Map P.2428, by B.O. Dressler, 1981, scale 1:15840 or 1 inch to ¼ mile. Geology 1979, 1980.
10 Otter Lake, Sudbury District, Ontario Geological Survey, Map 2450, by B.O. Dressler, 1981, scale 1:31680 or 1 inch to ½ mile. Geology 1978.
10 Massey Bay, Sudbury District, Ontario Geological Survey, Map 2451, by B.O. Dressler, 1981, scale 1:31680 or 1 inch to ½ mile. Geology 1978.
11 McKim Township, District of Sudbury, Ontario Geological Survey, Preliminary Map P.1978, by D.G. Innes, 1978, scale 1:15840 or 1 inch to ¼ mile. Geology 1975, 1976.
12 Precambrian Geology of Cascaden Township, Sudbury District, Ontario Geological Survey, Preliminary Map P.2525, by J. Lafleur, N. Maerz, and B.O. Dressler, 1982, scale 1:15840 or 1 inch to ¼ mile. Geology 1980.
12 Precambrian Geology of Dowling Township, Sudbury District, Ontario Geological Survey, Preliminary Map P.2526, by J. Lafleur, N. Maerz, and B.O. Dressler, 1982, scale 1:15840 or 1 inch to ¼ mile. Geology 1980.
12 Precambrian Geology of Trill Township, Sudbury District, Ontario Geological Survey, Preliminary Map P.2527, by J. Lafleur, N. Maerz, and B.O. Dressler, 1982, scale 1:15840 or 1 inch to ¼ mile. Geology 1980.
13 River Valley Area, Districts of Nipissing and Sudbury, Ontario Division of Mines, Preliminary Map P.844, by S.B. Lumbers, 1973, scale 1:63 360 or 1 inch to 1 mile. Geology 1971, 1972.
14 Burwash, Nipissing, Parry Sound and Sudbury Districts, Ontario Division of Mines, Map 2271, by S.B. Lumbers, 1974, scale 1:126720 or 1 inch to 2 miles.
15 Capreol Sheet, Districts of Sudbury and Nipissing, Ontario Department of Mines, Preliminary Map P.367, by H.D. Meyn, 1966, scale 1:126730 or 1 inch to 2 miles.
16 Capreol Area, Eastern Part, District of Sudbury, Ontario Geological Survey, Preliminary Map P.2378, by T.L. Muir, Z. Rebic, and B.O. Dressler, 1980, scale 1:15840 or 1 inch to ¼ mile. Geology 1978, 1979.
16 Capreol Area, Western Part, District of Sudbury, Ontario Geological Survey, Preliminary Map P.2377, by T.L. Muir, Z. Rebic, and B.O. Dressler, 1980, scale 1:15840 or 1 inch to ¼ mile. Geology 1978, 1979.
17 Precambrian Geology of the Morgan Lake-Nelson Lake Area, Sudbury District, Ontario Geological Survey, Preliminary Map P.2419, by T.L. Muir and A.B. Taylor, 1981, scale 1:15840 or 1 inch to ¼ mile. Geology 1980.
18 Broder, Dill, Neelon, and Dryden Townships, District of Sudbury, Ontario Department of Mines, Map 2017, by T.C. Phemister, I.D. MacGregor, W.J. Pearson, J.E. Thomson, and G. Bowie, 1962, scale 1:31680 or 1 inch to ½ mile.
19 Part of the Sudbury Basin Area, District of Sudbury, Ontario Department of Mines, Map 1956-1, by J.E. Thomson, 1956, scale 1:63360 or 1 inch to 1 mile. Additional geology and compilation 1953, 1954, 1955.

*Numbers refer to location on the Index Map.

OTHER SOURCES

Sudbury Igneous Complex
Internal Subdivision: Inco Limited (within Inco Limited's properties)
Lower Contact: B. Dressler, Falconbridge Nickel Mines Limited, Inco Limited, and T.L. Muir.

Sublayer and Footwall Breccia, Sudbury Breccia
Bowell, and northern Norman, Morgan, and Wisner Townships; T.L. Muir
Sudbury Structure (except above townships): B. Dressler

Onaping Formation
Inco Limited and T.L. Muir

Gabbroic Rocks (Map-unit 35)
Sudbury Basin Area, District of Sudbury, Ontario Department of Mines, Map 38G, by A.G. Burrows and H.C. Rickaby, 1928, scale 1:95040 or 1 inch to 1½ miles. Geology 1928, 1929.

Sudbury Mining Area
Sudbury Mining Area, Sudbury District, Ontario Department of Mines, Map 2170, by K.D. Card, 1969, scale 1:63360 or 1 inch to 1 mile. Geological compilation and revision 1966, 1967.

Falconbridge and Street Townships
Reconnaissance mapping and stratigraphic interpretation: B. Dressler
Additional information from near the Town of Falconbridge: Falconbridge Nickel Mines Limited

REFERENCE MAPS

Aylmer Township, Precambrian Geology, P.1608
Aylmer Township, Data Series, P.2190
Balfour Township, Precambrian Geology, P.44
Benny Area, Hess Lake Sheet, Precambrian Geology, P.949
Bowell Township, Precambrian Geology, P.316
Bowell Township, Data Series, P.2473
Broder Township, Precambrian Geology, P.57
Capreol Area, Western Part, Precambrian Geology, P.2377
Capreol Area, Eastern Part, Precambrian Geology, P.2378
Cartier Township, Data Series, P.2474
Cascaden Township, Precambrian Geology, P.2525
Denison Township, Precambrian Geology, P.202
Dill Township, Precambrian Geology, P.58
Dowling Township, Precambrian Geology, P.2526
Drury Township, Precambrian Geology, P.134
Dryden Township, Precambrian Geology, P.56
Fairbank Township, Precambrian Geology, P.46
Falconbridge Township, Data Series, P.2447
Foy Township, Precambrian Geology, P.315
Foy Township, Data Series, P.2472
Graham Township, Precambrian Geology, P.203
Hanmer Township, Precambrian Geology, P.42
Harty Township, Precambrian Geology, P.314
Harty Township, Data Series, P.2144
Hess Township, Data Series, P.2143
Hutton Township, Precambrian Geology, P.399
Hutton Township, Data Series, P.2471
Kitchener Township, Precambrian Geology, P.250
Kitchener Township, Data Series, P.2470
Leinster Township, Precambrian Geology, P.248
Leinster Township, Data Series, P.2139
Levack Township, Precambrian Geology, P.2428
Levack Township, Data Series, P.2475
Lumsden Township, Precambrian Geology, P.41
Mackelcan Township, Precambrian Geology, P.2227
Mackelcan Township, Data Series, P.2191
Maclennan Township, Precambrian Geology, P.52
Maclennan Township, Data Series, P.2443
Morgan Township, Data Series, P.2476
Munster Township, Data Series, P.2138
Neelon Township, Precambrian Geology, P.55
Panache Lake Area, East Part, Precambrian Geology, P.669
Parkin Township, Precambrian Geology, P.400
Parkin Township, Data Series, P.2460
Rathbun Township, Precambrian Geology, P.1609
Rayside Township, Precambrian Geology, P.45
Street Township, Data Series, P.2448
Sudbury Mining Area, Map 2170
Trill Township, Precambrian Geology, P.2527
Tyrone Township, Precambrian Geology, P.249
Tyrone Township, Data Series, P.2469
Wanapitei Lake Area, Southern Part, Precambrian Geology, P.2228
Waters Township, Precambrian Geology, P.247
Wisner Township, Data Series, P.2461

BASE MAPS

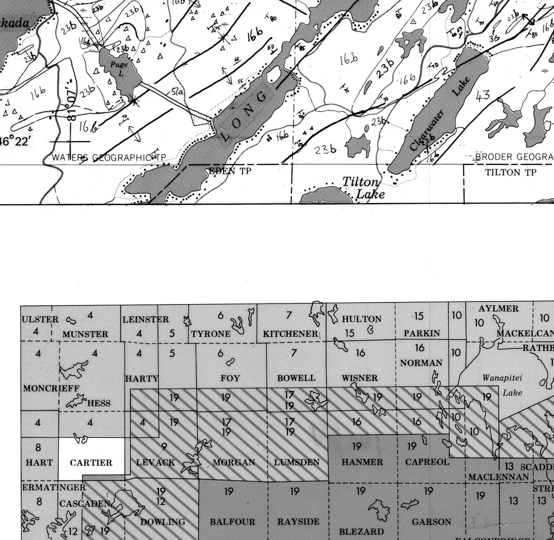
Maps 41I/5,6,7,10,11,12,13,14,15 of the National Topographic Series.

Metric Conversion Factor: 1 foot=0.3048 m.

PROPERTIES AND OCCURRENCES

SYMBOL	PROPERTY NUMBER	COMPANY	PROPERTY	SOURCE	COMMODITY
○	1	Blanchard, E.	Bonanza Mine	P.2228	Au,q
○	2	Copper Prince Resources Inc.	Copper Prince Property	—	Cu,Au
○	3	Falconbridge Nickel Mines Ltd.	Boundary Mine	Map 2170	Ni,Cu
○	4	"	Falcon Mine	P.2447	Au
●	5	"	Falconbridge Mine	Map 2170	Ni,Cu
●	6	"	Falconbridge East Mine	Map 2170	Ni,Cu
○	7	"	Fecunis Mine	"	Ni,Cu
●	8	"	Fraser Mine	Cdn. Mines Handbook 82-83	Ni,Cu
○	9	"	Hardy Mine	Map 2170	Ni,Cu
○	10	"	Lindsley Property	—	—
●	11	"	Lockerby Mine	Map 2170	Ni,Cu
○	12	"	Longvack Mine	"	Ni,Cu
○	13	"	Longvack South Mine	"	Ni,Cu
○	14	"	McKim Mine	"	Ni,Cu
○	15	"	Mount Nickel Mine	"	Ni,Cu
○	16	"	Nickel Rim Mine	"	Ni,Cu
○	17	"	Norduna Mine	"	Ni,Cu
●	18	"	North Mine	"	Ni,Cu
○	19	"	Onaping Mine	"	Ni,Cu
●	20	"	Strathcona Mine	"	Ni,Cu
▲	21	"	W.D. 212 Property	P.316	Ni,Cu
▲	22	"	W.D. 228 Property	"	Ni,Cu
▲	23	"	W.D. 229 Property	"	Ni,Cu
▲	24	Falconbridge Nickel Mines Ltd.	W.D. 236 Property	"	Ni,Cu
▲	25	Floron Mining Enterprises Ltd.	Rathbun Lake Property	P.1609	Cu,Ni,Pd,Pt,Au,Ag
○	26	Giant Yellowknife Mines Ltd.	Errington Mines Nos. 1(26a), 2(26b), 3(26c)	Map 2170	Cu,Pb,Zn,Ag
○	27	"	Vermilion Mine	"	Cu,Pb,Zn,Ag
○	28	"	Irwin Shaft	—	—
○	29	"	River Shaft	—	—
▲	30	INCO Ltd.	Big Levack Property	Map 2170	Ni,Cu
○	31	"	Blezard Mine	"	—
▲	32	"	Capre Property	"	Ni,Cu
○	33	"	Chicago Mine	"	Ni,Cu
○	34	"	Clarabelle Mine	"	Ni,Cu
○	35	"	Coleman Mine	"	—
○	36	"	Copper Cliff Mine	"	Ni,Cu
○	37	"	Copper Cliff No. 1 Mine	"	Ni,Cu
○	38	"	Copper Cliff No. 2 Mine	"	Ni,Cu
○	39	"	Copper Cliff North Mine	"	Ni,Cu
●	40	"	Copper Cliff South Mine	"	Ni,Cu
○	41	"	Crean Hill Mine	"	Ni,Cu
●	42	"	Creighton Mine	"	Ni,Cu
○	43	"	Ellen Pit	"	Ni,Cu
○	44	"	Evans Mine	"	Ni,Cu
●	45	"	Frood-Stobie Mines	"	Ni,Cu
●	46	"	Garson Mine	"	Ni,Cu
○	47	"	Gertrude Mine	"	Ni,Cu
○	48	"	Kirkwood Mine	"	Ni,Cu
●	49	"	Levack Mine	"	Ni,Cu
●	50	"	Little Stobie Mine	"	Ni,Cu
○	51	"	Maclennan Mine	"	Ni,Cu
●	52	"	McCreedy West Mine	P.2428	Cu
○	53	"	McIntyre Mine	P.202	Ni,Cu
○	54	"	Murray Mine	Map 2170	Ni,Cu
○	55	"	North Range Mine (exploration)	"	—
○	56	"	North Star Mine	"	Ni,Cu
▲	57	"	Sheppard Property	"	—
▲	58	"	Sultana Property	"	Ni,Cu
▲	59	"	Tam O'Shanter Property	"	—
○	60	"	Totten Mine	"	Ni,Cu
▲	61	"	Trillabelle Property	"	Ni,Cu
○	62	"	Vermilion Mine	"	Ni,Cu
○	63	"	Victor Mine	"	Ni,Cu
○	64	"	Victoria Mine	"	Ni,Cu
▲	65	"	W.D. 13 Property	P.316	Ni,Cu
▲	66	"	W.D. 16 Property	"	Ni,Cu
▲	67	"	W.D. 150 Property	"	Ni,Cu
▲	68	"	W.D. 152 Property	"	Ni,Cu
▲	69	"	W.D. 209 Property	"	Ni,Cu
▲	70	"	W.D. 237 Property	"	Ni,Cu
▲	71	"	Whistle Property	Map 2170	Ni,Cu
○	72	"	Worthington Mine	"	Ni,Cu
○	73	Irvington Mining Co. Ltd.	Geneva Lake Mine	"	Zn,Pb,Ag,Au
○	74	Jonsmith Mines Ltd.	Milnet Mine	"	Ni,Cu,Au,Pt
○	75	Kerr Addison Mines Ltd.	Agnew Lake Mines Ltd.	—	U
○	76	Kidd Copper Mines Ltd.	Kidd Copper Mine	Map 2170	Ni,Cu
○	77 *	—	Red Rock Mine	P.2228	Au
○	78	Moses, J.R.	Copenhagen Mine	P.2470	Cu,Pb,Ni
○	79	National Steel Corp. of Canada	Moose Mountain Mine	Map 2170	Fe
○	80	Nickel Offsets Ltd.	Nickel Offset Mine	Map 2170	Ni,Cu
▲	81	"	W.D. 233 Property	P.315	Ni,Cu
▲	82	"	W.D. 234 Property	"	Ni,Cu
▲	83	"	W.D. 248 Property	"	Ni,Cu
▲	84	"	W.D. 250 Property	"	Ni,Cu
▲	85	Sturdy Mines Ltd.	Sturdy Property	Map 2170	—
▲	86	West Graham Mines Ltd.	McVittie-Graham Property	"	Ni,Cu
▲	87	—	Billoki, J.J., Property	P.1608	Cu
▲	88	—	Cryderman Property	P.2447	Ni,Cu
○	89	—	Crystal Gold Mine	P.1609	Au
○	90	—	Prue's Mine	P.2473	Zn,Cu
▲	91	—	Rathbun Township Iron Occurrence	"	Fe
○	92	—	Skead Mine	P.2228	Au
▲	93	—	Vermilion River Occurrence	Map 2170	Au

NOTE: Not all properties occur on this sheet.
* Owned by J. M. Hazlett



INDEX MAP

0 — 8 Miles
0 — 10 Km

MAP SCALES
1:15 840, 1:31 680
1: 63 360
1:126 720

SYMBOLS

- Bedding, top unknown; (inclined, vertical)
- Bedding, top indicated by arrow; (inclined, vertical, overturned)
- Schistosity and cleavage; (horizontal, inclined, vertical)
- Gneissosity; (horizontal, inclined, vertical)
- Lineation with plunge
- Geological boundary
- Geological boundary, interpreted
- Fault; (observed, assumed) arrows indicated horizontal movement
- Anticline, syncline, with plunge
- Sudbury Breccia
- Shatter cone
- Producing Mine
- Past producing Mine
- Mineral occurrence, property
- Dip of lower contact of Sudbury Igneous Complex
- Grenville Front
- Quarry
- Gravel pit

NOTE: Not all symbols may occur on this sheet

CREDITS

Compilation by B. Dressler, 1982, 1983.

Every possible effort has been made to ensure the accuracy of the information presented on this map; however, the Ontario Ministry of Natural Resources does not assume any liability for errors that may occur. Users may wish to verify critical information; sources include both the references listed here, and information on file at the Resident or Regional Geologist's office and the Mining Recorder's office nearest the map area.

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