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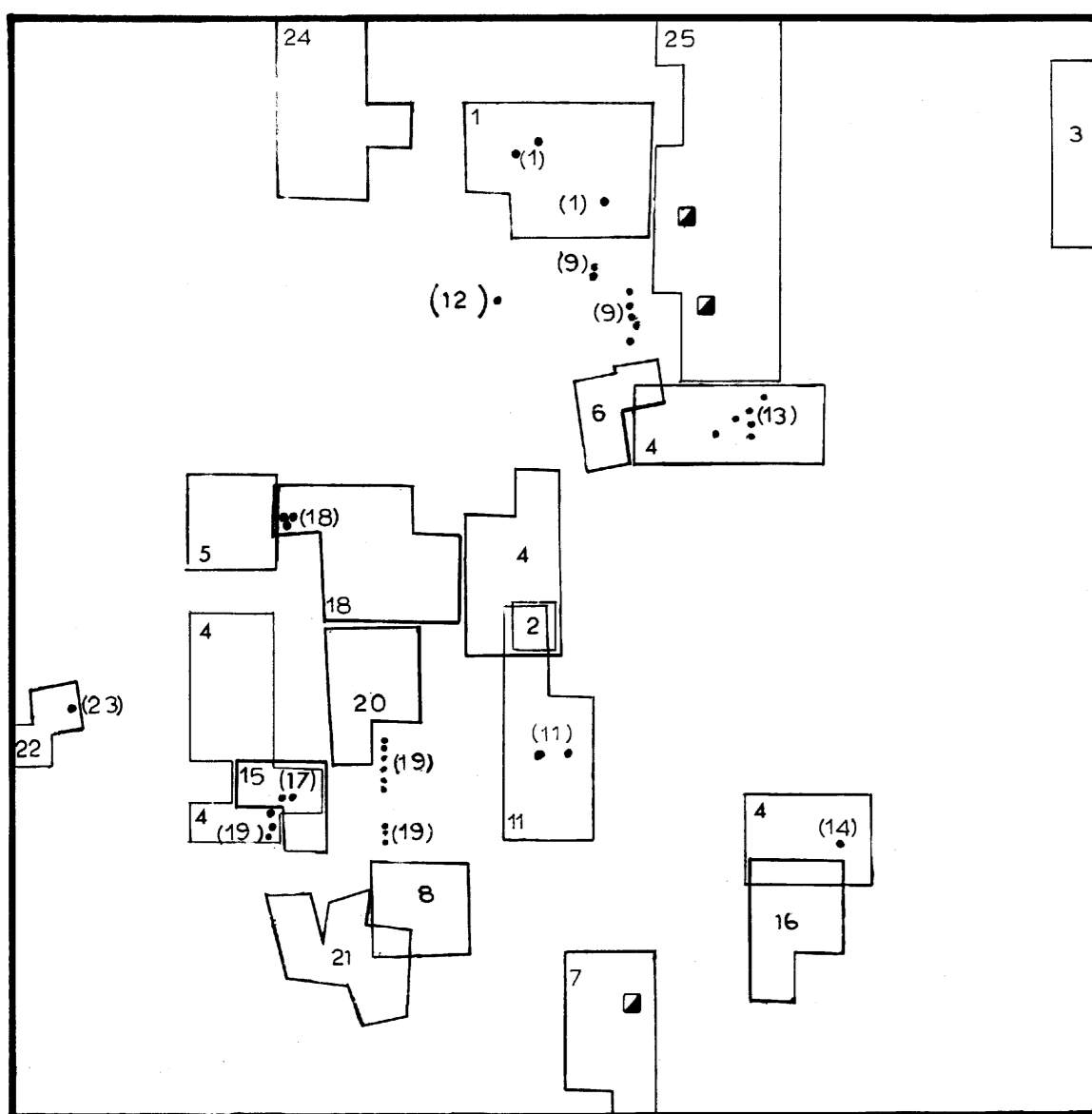
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METAL AND MINERAL REFERENCES

Ag	Silver	mag	Magnetite
asb	Asbestos	mar	Marcasite
asp	Arsenopyrite	mo	Molybdenite
Au	Gold	Ni	Nickel
bn	Bornite	pl	Platinum
Co	Cobalt	py	Pyrite
cp	Chalcopyrite	pyc	Pyrochlore
Cr	Chromite	pyq	Pyrite-quartz vein
Cu	Copper	qz	Quartz vein
ep	Epidote	serp	Serpentine
Fe	Iron	sp	Sphalerite
fl	Fluorite	spec	Specularite
gf	Graphite	tal	Talc
gn	Garnet	tour	Tourmaline
hem	Hematite	zn	Zinc
Hg	Mercury		

SYMBOLS

	Shaft: depth in feet (for which there is underground information available).		Ground electromagnetic conductor: VEM . . . vertical loop HEM . . . horizontal loop VLF . . . very low frequency JEM . . . crane EM-16 TURAM
	Drill hole (projected vertically); overburden in feet down hole (ov 80); total depth in feet down hole (TD 204).		Ground magnetometer anomaly
	Group of drill holes; property number 27; average (avg).		Airborne magnetometer anomaly
	Trending		Radiometric anomaly
	Airborne electromagnetic conductor: Dig . . . Dighem IN . . . INPUT CA . . . Canadian Aero Mineral Surveys Sc . . . Scintrex A . . . Aerophysics of Canada Ltd. H . . . Hunting B . . . Barringer Gx . . . Geotrex		Airborne radiometric anomaly
			Resistivity anomaly
			Gravity anomaly
			Induced polarization conductor
			Geochemical anomaly (Zn)



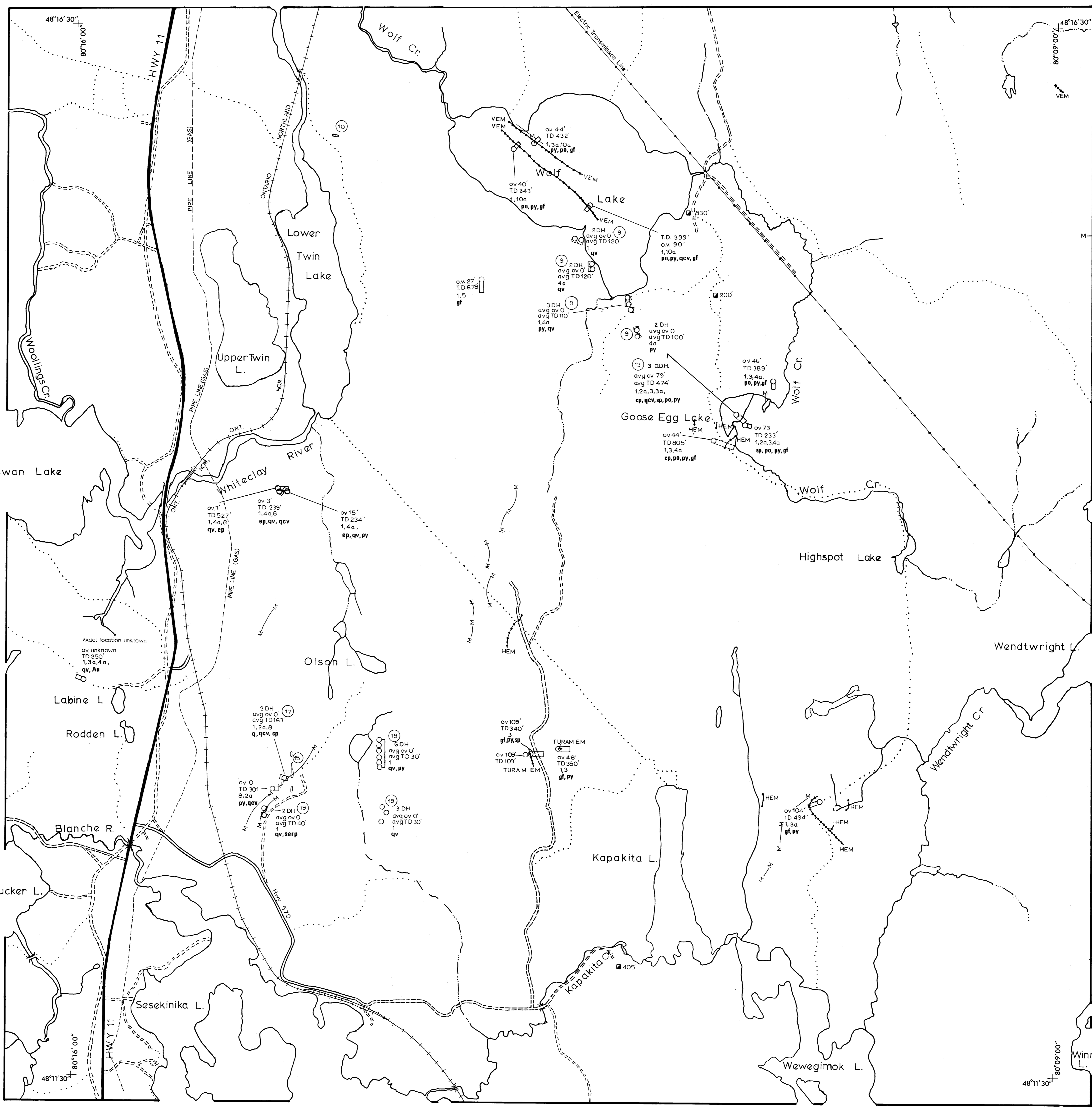
DATA LOCATION MAP Scale: 1:63 360

DATA FILED WITH THE RESIDENT GEOLOGIST ONTARIO MINISTRY OF NATURAL RESOURCES TO FEBRUARY, 1979	TYPE OF WORK												
	GEOLOGICAL	TRENDING	DIAMOND DRILLING	AIRBORNE MAGNETOMETER	AIRBORNE MAGNETOMETER	GROUND MAGNETOMETER	ELECTROMAGNETIC	ELECTROMAGNETIC	INDUCED POLARIZATION	OTHER GEOPHYSICAL	UNDERGROUND WORK	GEOCHEMICAL	OTHERS
1 Chimo Gold Mines Ltd.			72*										72
2 Cole, C.													51
3 Consolidated Beaumont Resources Ltd.						74	74						
4 Estal Mining Co. (4 Groups)						74,75	74,75						
5 Elzina Mines Ltd.													38
6 Geometal Mines Ltd. (Bradford Syndicate)													46
7 Golden Summit Mines Ltd.										37	27,30,		34
8 Hastings Moffat Group													40*
9 Howie Mining Co. Ltd.			48*	52									
10 Hurd, D.			72										
11 Imperial Oil Enterprises Ltd.													72
12 International Nickel Co. of Canada Ltd., The													65
13 Kerr Addison Mines Ltd. (Goose Lake)			66,67*										69
14 Kerr Addison Mines Ltd. (Kapikita Lake)			66										
15 Labine-Smith Group			14										14*
16 McDonnell, J.													47
17 Pain, S.A.			58*										47
18 Peterson, W.			52										52
19 Puzden, A.			55*										
20 Russell, J.E.													51
21 Sesekinika Township													34
22 Trapper Claim													12*
23 Waring, J.D.			52										
24 Wickstead, A.													48
25 Wolfe Lake Mines Ltd. (Gormer Lakeland Gold Mines)										37	37,	39*	40*
										75	75	40*	41*

* Assays
* Multiple diamond drill holes

SOURCES OF INFORMATION
Compiled by F. Ploeger, M. Dymant, and G. Grabowski, 1978, from data on file at Resident Geologist's office, Ontario Ministry of Natural Resources, Kirkland Lake.
Base map derived from Forest Resources Inventory maps, Lands and Waters Group, Ontario Ministry of Natural Resources.
The Kirkland Lake and Swastika Gold Areas and Maisenville, Grenfell and Eby Townships; Ontario Bureau of Mines Annual Report, Volume 23, 1914, pt. 2, by A.G. Burrows and R.E. Hopkins.
Maisenville Township, District of Timiskaming; Ontario Department of Mines Preliminary Geological Map P.409, 1967, by H.L. Lovell.
Geology of the Bourkes Area, District of Timiskaming; Ontario Department of Mines and Northern Affairs Geological Report 92, 1971, by H.L. Lovell.
ODM-CSC High Resolution Aeromagnetic Maps 20,150G and 20,151G, Scale 1:25 000, 1975.
This compilation project is part of the Kirkland Lake Area Incentives Program. It is equally funded by the Federal Department of Regional Economic Expansion and the Ontario Ministry of Northern Affairs under the Community and Rural Resource Development Agreement.

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Metric Conversion Factor - 1 foot = 0.3048 m

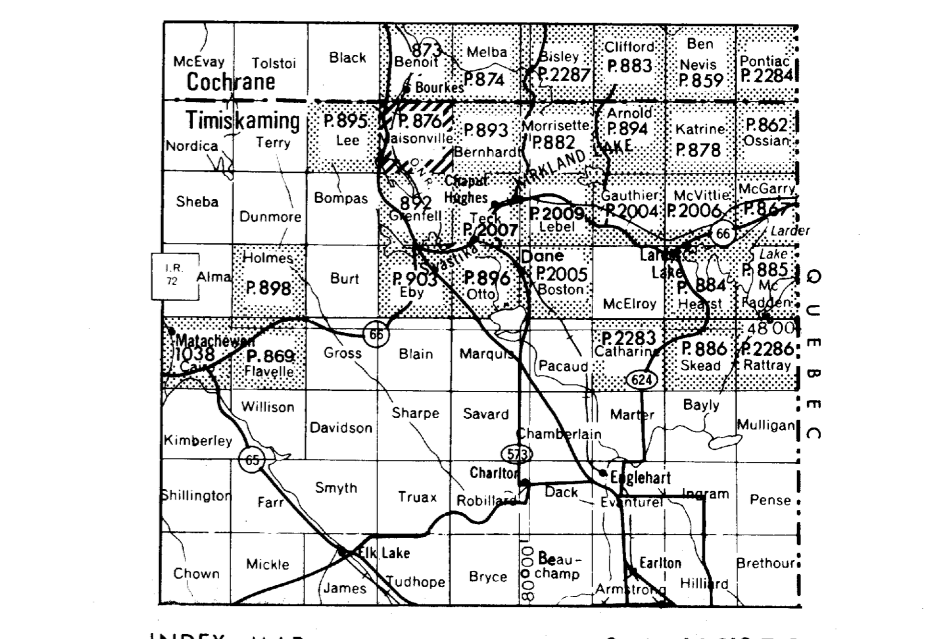


Scale: 1:15 840
Mile 1/2 1/4 1/8
Metres 100 50 0 50 100
Kilometre

NTS References: 42A/1:42A/8
ODM-CSC Aeromagnetic Maps: 28BG (Rev.); 295G (Rev.)
ODM Geological Compilation Series Map: 2205

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Rock types indicated in drill hole geology are in numerical sequence only and do not represent abundance or stratigraphic order.



LEGEND

MESOZOIC
17 Kimberlite

INTRUSIVE CONTACT

PALEOZOIC
LOWER AND MIDDLE SILURIAN
16a Clinton (Thornloe) Formation: limestone, dolostone, sandstone
16b Wabi Formation: limestone, shale

MIDDLE AND UPPER ORDOVICIAN
15a Dawson Point Formation: shale
15b Farr Formation: limestone
15c Bucke Formation: limestone, shale
15d Guigues Formation: sandstone

UNCONFORMITY

PRECAMBRIAN
LATE PRECAMBRIAN (PROTEROZOIC)
14 MAFIC INTRUSIVE ROCKS^a
14 Diabase dikes

INTRUSIVE CONTACT

MIDDLE PRECAMBRIAN (PROTEROZOIC)
ALKALIC INTRUSIVE ROCKS^b
13 Syenite, nepheline syenite, lamprophyre

MAFIC INTRUSIVE ROCKS^c
12 Diabase, transition rock, and granophyre sheets and dikes

INTRUSIVE CONTACT

COBALT GROUP
11 Lorrain Formation: quartzite, arkose
10 Gowanda Formation (unsubdivided)
10a Firsirot Member: argillite, siltstone, wacke, arkose
10b Coleman Member: conglomerate, wacke, quartzite, arkose, argillite

UNCONFORMITY

EARLY PRECAMBRIAN (ARCHEAN)
MAFIC INTRUSIVE ROCKS^d
9 Diabase dikes

INTRUSIVE CONTACT

ALKALIC INTRUSIVE ROCKS^e
8 Syenite, monzonite, lamprophyre^h

INTRUSIVE CONTACT

ALKALIC METAVOLCANICS^f
7 Trachyte, leucitic trachyte: flows, tuff, breccia

METASEDIMENTS^g
6 Conglomerate, wacke, siltstone, slate, argillite, iron formation^h

FELSIC INTRUSIVE ROCKS^{i,j}
4a Granite intrusive rocks
4b Quartz porphyry, quartz-feldspar porphyry, feldspar porphyry, granophyre, felsite^h
4c Trondhjemite, granodiorite, quartz monzonite: simple batholiths and stocks
4c Trondhjemite, granodiorite, quartz monzonite, quartz diorite, aplite, pegmatite, migmatite: complex batholiths

INTRUSIVE CONTACT

FELSIC METAVOLCANICS^{k,l}
3 Unsubdivided
3a Iron formation (mag.-chert: gf-py-pg); green and brown dolostone
3b Flows
3c Pyroclastic rocks

INTRUSIVE CONTACT

METAMORPHOSED MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS^m
2 Unsubdivided
2a Gabro, diorite
2b Peridotite, dunite, pyroxenite, serpentine

INTRUSIVE CONTACT

INTERMEDIATE TO ULTRAMAFIC METAVOLCANICS^{n,o}
1 Unsubdivided dacite, andesite, and basalt^h
1a Intermediate flows
1b Intermediate pyroclastic rocks
1c Mafic flows
1d Mafic pyroclastic flows
1e Ultramafic flows

NOTE: All rock types listed in the Legend do not necessarily appear on the map face.
Issued 1979

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Ploeger, F., Dymant, M., and Grabowski, G.
1979: Maisenville Township, District of Timiskaming; Ontario Geological Survey Preliminary Map P.876, Kirkland Lake Data Series, Scale 1:15 840 or 1 inch to 1/2 mile. Data compiled 1978.