

TAYLOR TOWNSHIP
DISTRICT OF COCHRANE, ONTARIO

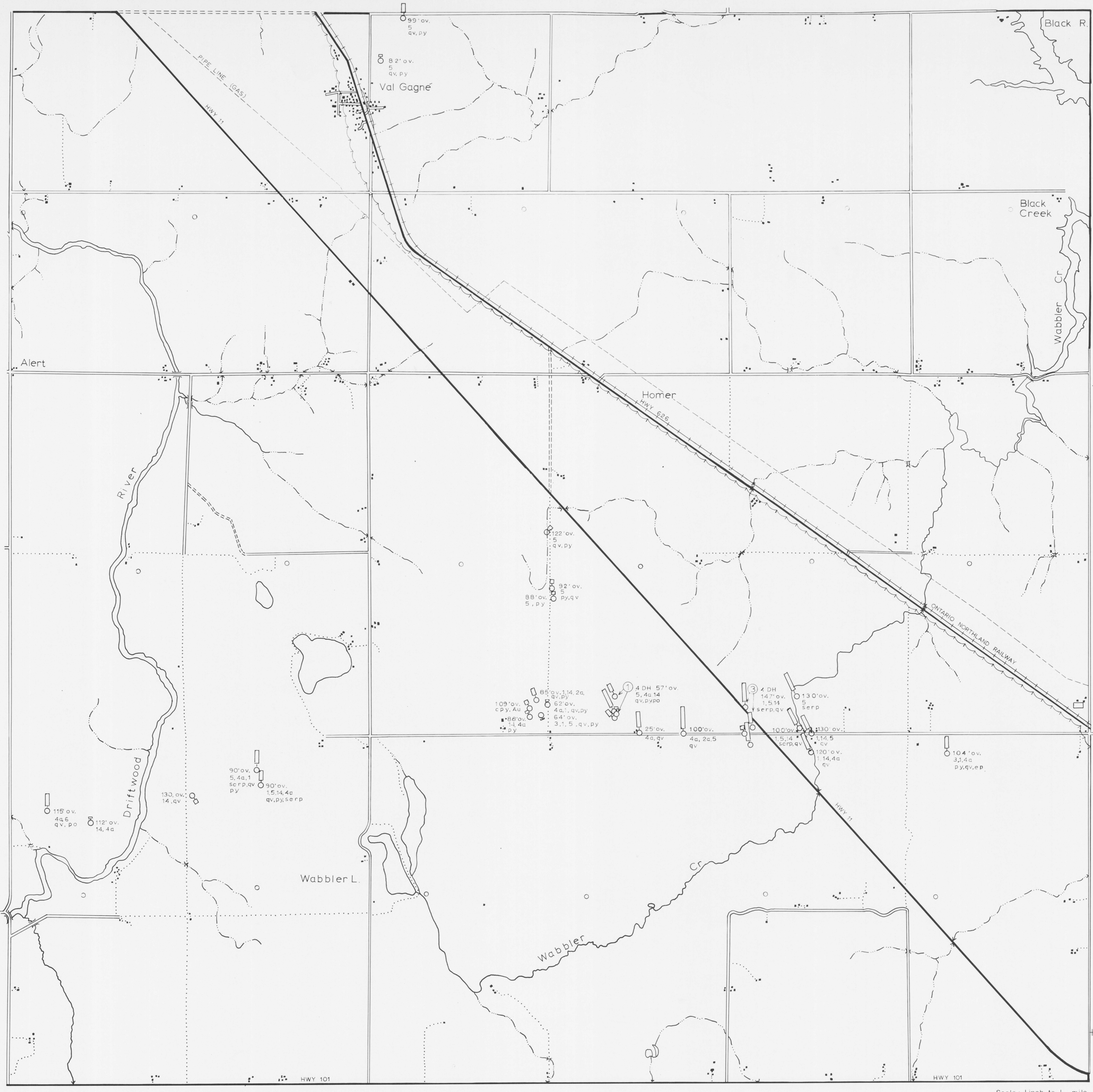
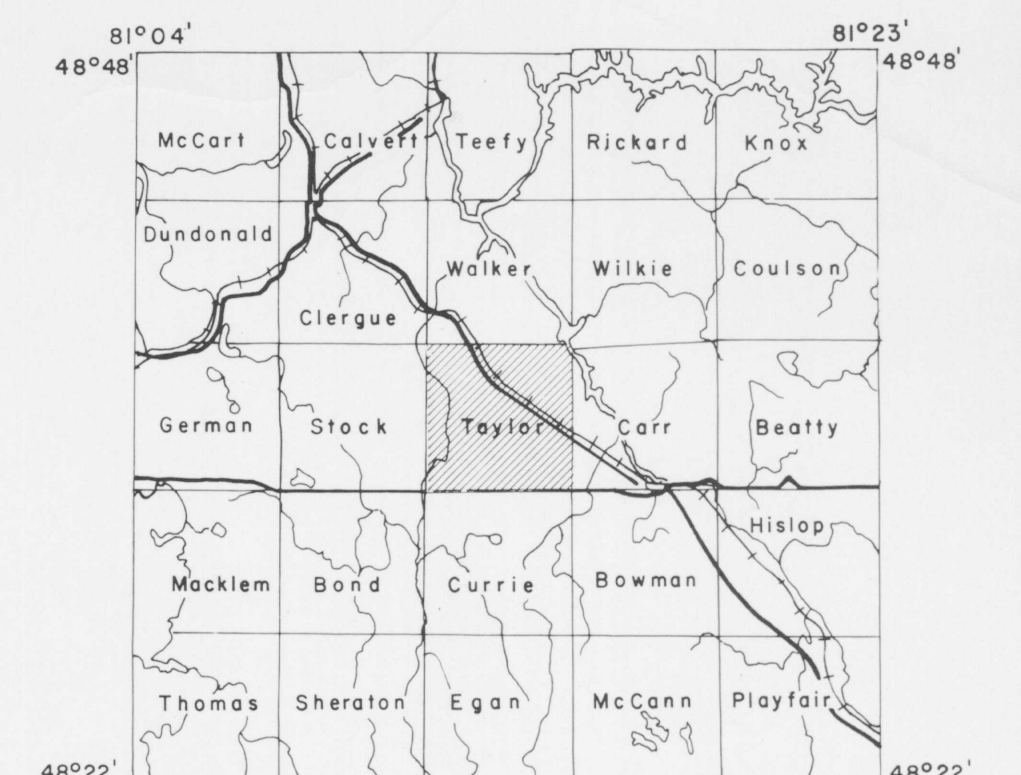


TABLE OF LITHOLOGICAL UNITS
KIRKLAND LAKE DATA SERIES

CENOZOIC	
PLEISTOCENE AND RECENT	
18a	ORGANIC DEPOSITS Open and semi-open bogs
18b	COCHRANE DEPOSITS Clay fill
18c	BARLOW-GUNWAY DEPOSITS Varied sediments
18d	GLACIO-FLUVIAL DEPOSITS Sand and gravel deposits
18e	GLACIO-FLUVIAL DEPOSITS Esker complexes associated outwash sand and gravel deposits
18f	GROUND MORaine DEPOSITS Sandy grey boulder fill, with minor contained stratified drift, resting on bedrock
UNCONFORMITY	
MESOZOIC	
17	Kimewatta
INTRUSIVE CONTACT	
LOWER AND MIDDLE SILURIAN	
16a	Clinton (Thornhill) Formation: limestone, quartzite, sandstone
16b	Wab Formation: limestone, shale
MIDDLE AND UPPER DEVONIAN	
15a	Wab Formation: limestone, shale
15b	Farr Formation: limestone
15c	Huron Formation: limestone, shale
15d	Colvies Formation: sandstone
UNCONFORMITY	
PRECAMBRIAN	
LATE PRECAMBRIAN (PROTEROZOIC)	
14	Mafic intrusives: rocks
INTRUSIVE CONTACT	
MIDDLE PRECAMBRIAN (PROTEROZOIC)	
ALKALIC INTRUSIVE ROCKS ^a	
13	Syenite, nepheline syenite, tanophyre
MAFIC INTRUSIVE ROCKS ^a	
12	Diorite, transitional rock, and granophyre sheets and dikes
INTRUSIVE CONTACT	
COBALT GROUP	
11	Lorrain Formation: quartzite, arkose
10	Unidentified
9	Greenstone: amphibole, argillite, siltstone, gneiss, arkose
8	Greenstone: amphibole, argillite, gneiss, quartzite, arkose, argillite
UNCONFORMITY	
EARLY PRECAMBRIAN (ARCHEAN)	
MAFIC INTRUSIVE ROCKS ^a	
7	Diorite, gabbro
INTRUSIVE CONTACT	
ALKALIC INTRUSIVE ROCKS ^a	
6	Syenite, monzonite, tanophyre ^b
INTRUSIVE CONTACT	
ALKALIC METAVOLCANICS ^c	
5	Trachyte, basaltic trachyte: flows, tuff, breccia
METASEDIMENTS	
4	Conglomerate, gneiss, siltstone, slate, argillite, iron formation ^d
3	Gneiss: siltstone, slate, iron formation ^d
FELSIC INTRUSIVE ROCKS ^e	
2	Granite intrusives: rocks
1	Quartz porphyry, quartz-feldspar porphyry, felsic gneiss, granite, quartz monzonite, amphibole gneiss and stocks
0	Tronchite, granodiorite, quartz monzonite, quartz diorite, granite, gabbro, monzonite, complex batholite
INTRUSIVE CONTACT	
FELSIC METAVOLCANICS AND VOLCANICS ^f	
1	Undifferentiated, rhyolite
2	Iron formation and ferruginous chert
3	Flows
4	Pyroclastic rocks
INTRUSIVE CONTACT	
METAMORPHISED MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS ^g	
1	Undifferentiated
2	Gabbro, diorite
3	Peridotite, diorite, pyroxenite, serpentinite
INTRUSIVE CONTACT	
INTERMEDIATE AND MAFIC METAVOLCANICS ^h	
1	Undifferentiated diorite, andesite, and basalt
2	Intermediate flows
3	Intermediate pyroclastic rocks
4	Mafic flows
5	Mafic pyroclastic rocks

^a Formerly classified as Keewatin
^b Formerly classified as Timiskaming
^c Formerly classified as Huronian
^d Formerly classified as Algoma
^e Includes north-trending dikes of Matachewan swarm
^f Includes Nipissing and Sudbury-type
^g Includes Nainian
^h Several ages; some units appear to be intrusive equivalents of dioritic formations whereas others postdate volcanism
i Rocks in these groups are subdivided lithologically; the order does not necessarily imply any relationship within or among groups.

LOGICAL AND MINING SYMBOLS FOR KIRKLAND LAKE DATA SERIES

Glacial striae	Drill hole: (projected vertically); Overburden shown
Esker, medial ridge	Drill hole in overburden only (vertical or line inclined); Overburden shown
Small bedrock outcrop	Shaft; depth in feet
Bedding, top unknown; (inclined, vertical)	Mineral occurrence at surface
Bedding, top (arrow) from cross bedding; (inclined, vertical, overturned)	Airborne electromagnetic anomaly (Quarter 6 Channel type, Station)
Bedding, top (arrow) from pillow shape and marking	Airborne electromagnetic anomaly (Quarter 6 Channel type, Station)
Schistosity; (horizontal, inclined, vertical)	2 channel response
Gneissosity; (horizontal, inclined, vertical)	3 channel response
Layering; (horizontal, inclined, vertical)	4 channel response
Lineation with plunge	5 channel response and coincident magnetic anomaly
Geological boundary, observed	Airborne magnetometer anomaly
Geological boundary, position interpreted	Ground magnetometer anomaly
Geological boundary, deduced from geophysics	Ground electromagnetic conductor (VEM-Vert-loop; 100-Hz horizontal loop; VEM-Very low freq; Turm; JEM-Crone 06-16)
Spot (observed, assumed)	Spot indicates down throw side, arrows indicate horizontal movement
Lineament	Bedrock trenching
Jointing; (horizontal, inclined, vertical)	Induced Polarization anomaly
Drag folds with plunge	Spontaneous Polarization anomaly
Anticline, syncline, with plunge	Gravity anomaly
	Bathymetric anomaly
	Resistivity anomaly

METAL AND MINERAL REFERENCE
For Kirkland Lake Data Series

Ag	Silver	mo	Molybdenite
amb	Amibron	ni	Nickel
Au	Gold	Pb	Lead
Ca	Calcium	pl	Palladium
Cc	Cobalt	pent	Pentlandite
cp	Chalcopyrite	py	Pyrite
Cr	Chromite	qtz	Quartz
Cu	Copper	pyc	Pyrochlore
ep	Episidite	qvc	Quartz-carbonate vein
Fe	Iron	sp	Sphalerite
fl	Fluorite	serp	Serpentine
gf	Graphite	sp	Sphalerite
ga	Galena	spc	Spinel
mag	Magnetite	talc	Talc
mar	Marcasite	zn	Zinc
ml	Millerite		

Sources of Information
Compiled by the Geological Survey of Canada in co-operation with the Ontario Department of Mines and Northern Affairs from data on file with the Resident Geologist (Ontario Department of Mines and Northern Affairs), Kirkland Lake.

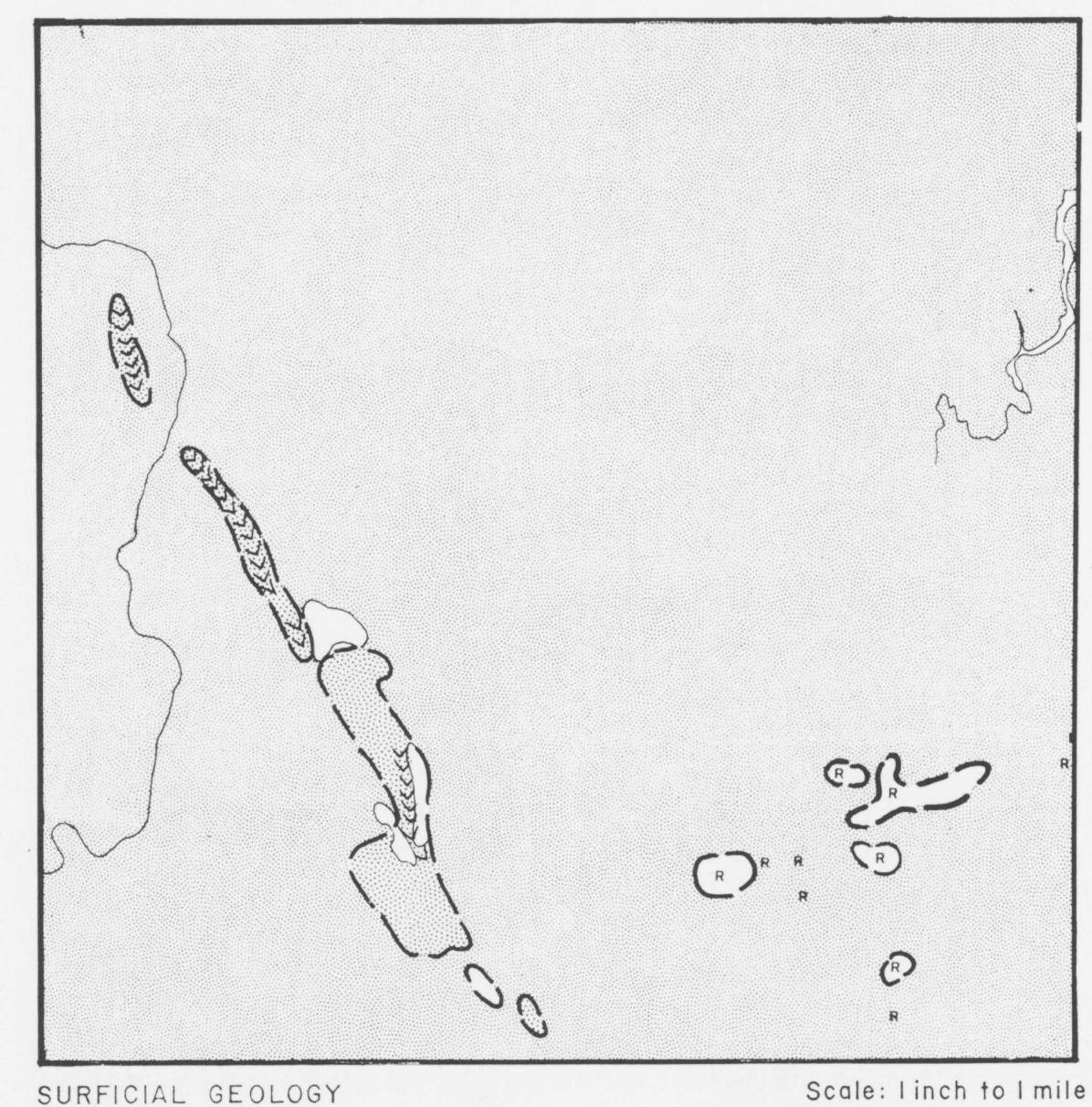
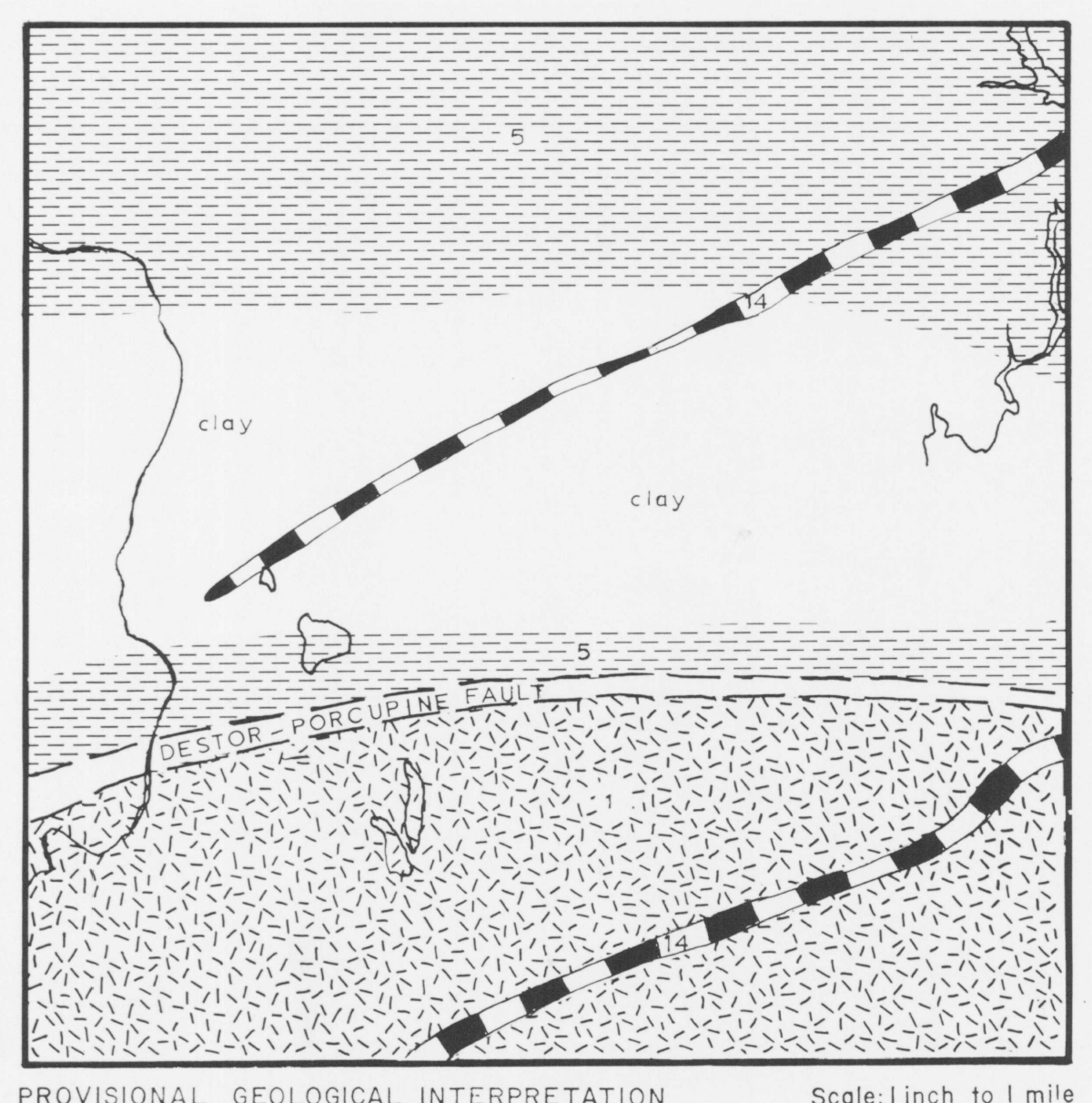
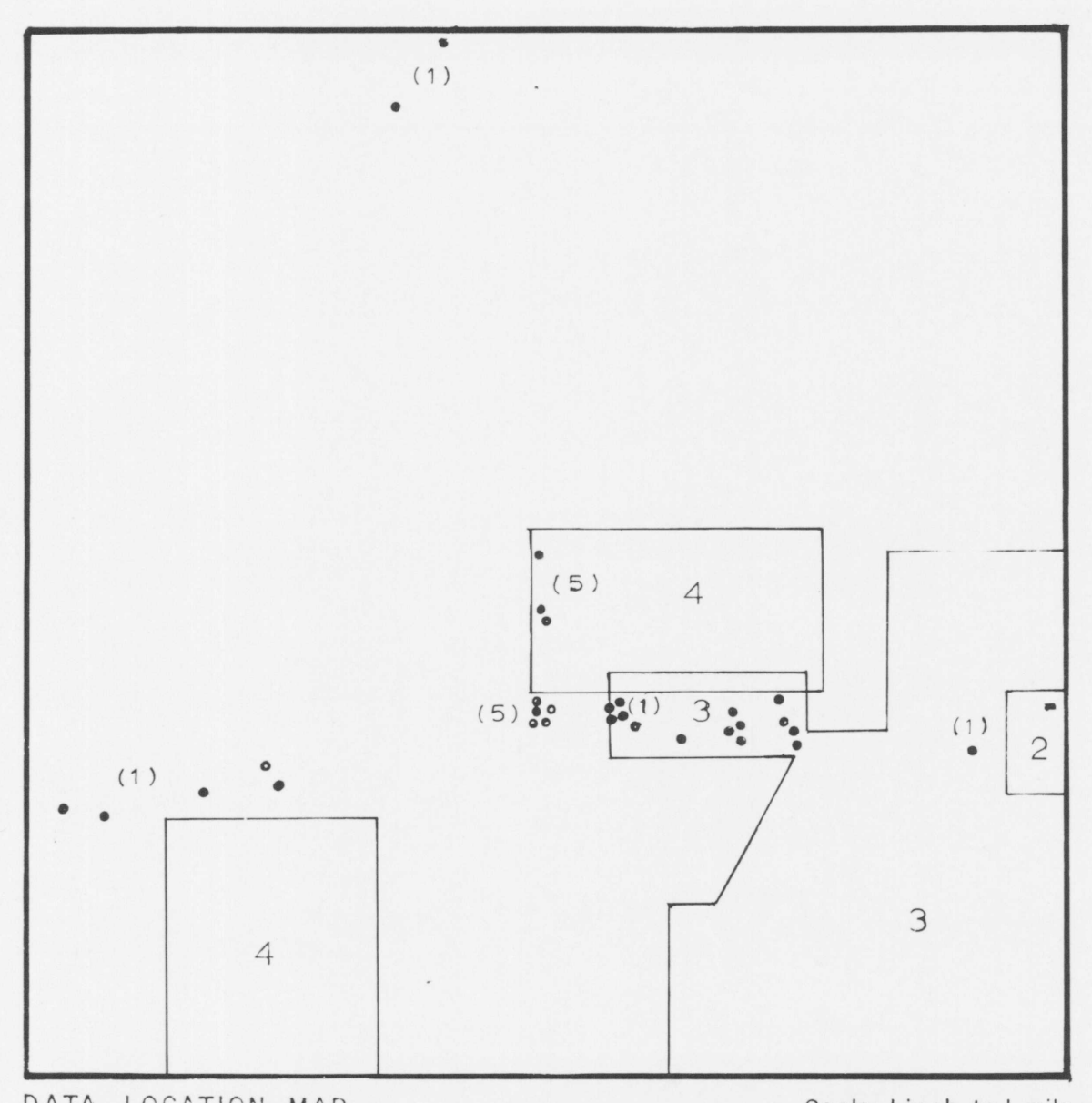
NTS Reference 42 A/10
GEM-250 Aeromagnetic Map 2770 (rev.)
GEO Geological Compilation Series Map 2046
GEM Preliminary Geological Map F-39
GSC Surficial Geology Map 44-1999

DATA FILED WITH THE ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS RESIDENT GEOLOGIST AT KIRKLAND LAKE Through April 30th 1972

	DIAMOND DRILLING	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETOMETER	GROUND MAGNETOMETER	VERTICAL LOOP ELECTROMAGNETOMETER	HORIZONTAL LOOP ELECTROMAGNETOMETER	URAM ELECTROMAGNETOMETER	EM	INDUCED POLARIZATION	VLF	RESISTIVITY	GRAVITY	GEOCHEMICAL	OTHERS
1. Hollinger Consolidated Gold Mines Ltd.	62*													
2. Hollinger Consolidated Gold Mines Ltd. "Taylor-Carr option"	63-64													20**
3. N.W. Timmins Exploration (Ont.) Ltd.	66*													
4. Taylor Gold Mines														
5. Turney, W.H.	67-69													

* Composite 3H coil, mapped where multiple 3H are indicated
** Trenching
*** Two weak linear N-S anomalies not plotted

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 (in) areas for which work was submitted to the department are outlined, and thus a company may have more ground than indicated here. The numbers on the DATA LOCATION MAP and any circled numbers refer to the company list above.



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