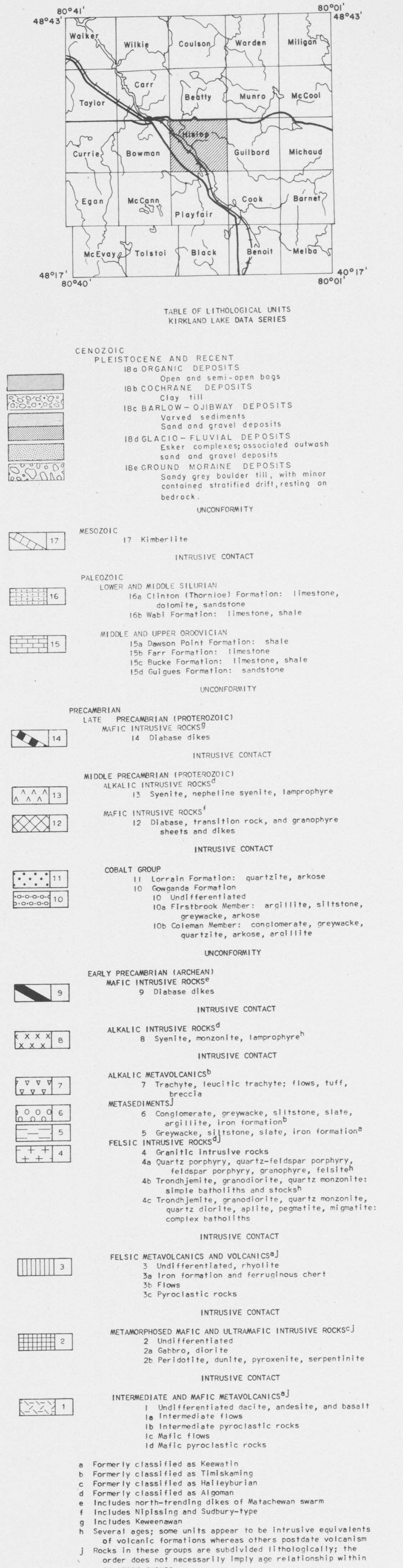
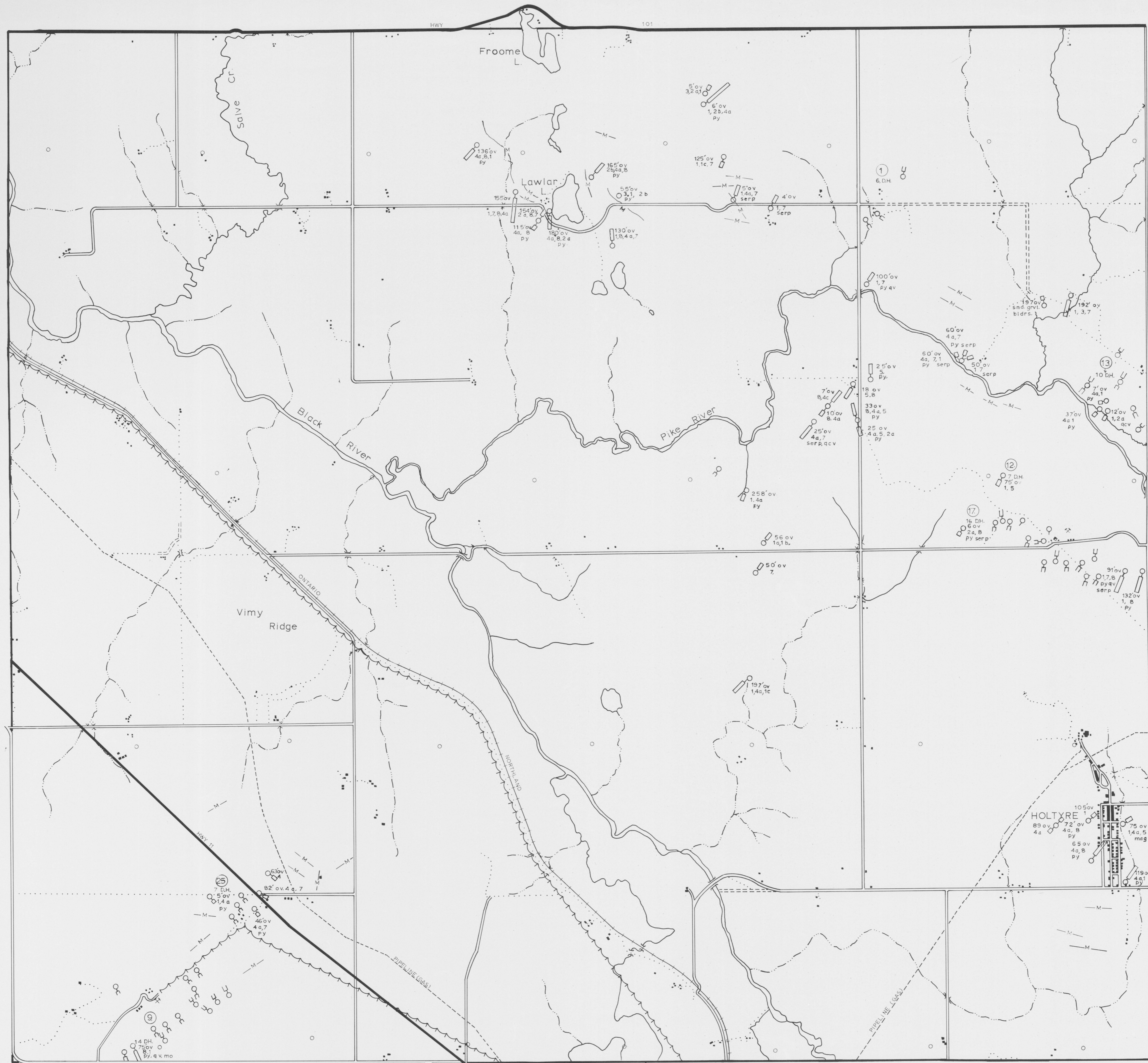


HISLOP TOWNSHIP
DISTRICT OF COCHRANE, ONTARIO



Scale: 1 inch to 1/4 mile

DATA FILED WITH THE ONTARIO DEPARTMENT OF MINES AND NORTHERN AFFAIRS

RESIDENT GEOLOGIST AT KIRKLAND LAKE

Through April 30th 1972

No.	Company Name	Year	Geological Data												
			DIAMOND DRILLING	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETOMETER	GROUND MAGNETOMETER	VERTICAL LOOP ELECTROMAGNETOMETER	HORIZONTAL LOOP ELECTROMAGNETOMETER	DIAM ELECTROMAGNETOMETER	IPM	INDUCED POLARIZATION	VLF	RESISTIVITY	GRAVITY	GEOCHEMICAL
1.	Abay Gold Mines Ltd.	45	2084												
2.	Alaria, C. (Sylvanite Misc. file)	38	4548*												
3.	Anson Cartwright Mines Ltd.	46	46												
4.	Birch, T.W.	35													
5.	Dominion Gulf Company	52	52												3588*
6.	Dowson, W.C.H.	37													
7.	Durham, Isaac	46	46												
8.	Edross Consolidated Gold Mines Ltd.	52	52												
9.	Golden Arrow Mines Ltd.	3788*													
10.	Graham	52													
11.	Heaven, A.E.	34													3488*
12.	Hikey Gold Mines Ltd.	4788*													
13.	Hislop Mines Ltd.	3788*													
14.	Hollinger Consolidated Gold Mines Ltd. "Dominion Gulf option"	50													
15.	Hollinger Consolidated Gold Mines Ltd. (Box Mine)	50													
16.	International Nickel Company of Canada Ltd.	65													
17.	Kelowna Gold Mines Ltd.	4088*													
18.	Lefebvre, F.	47													
19.	Martin Bird Gold Mine Ltd. "Ladouceur"	46													
20.	Miles, F.C.	34													3488*
21.	New Kelson Mines Ltd.	49													3588*
22.	Pion, A.	39													
23.	Smith, Alex, B.	34													3588*
24.	Solmes, W.P.	55													
25.	Vimy Gold Mines Ltd.	45	45												3488*
26.	Vincent, C.														3488*
27.	Weir, J. & Weir, F.														3488*
28.	Western Surf Inlet Mines Ltd.	52	52												3488*

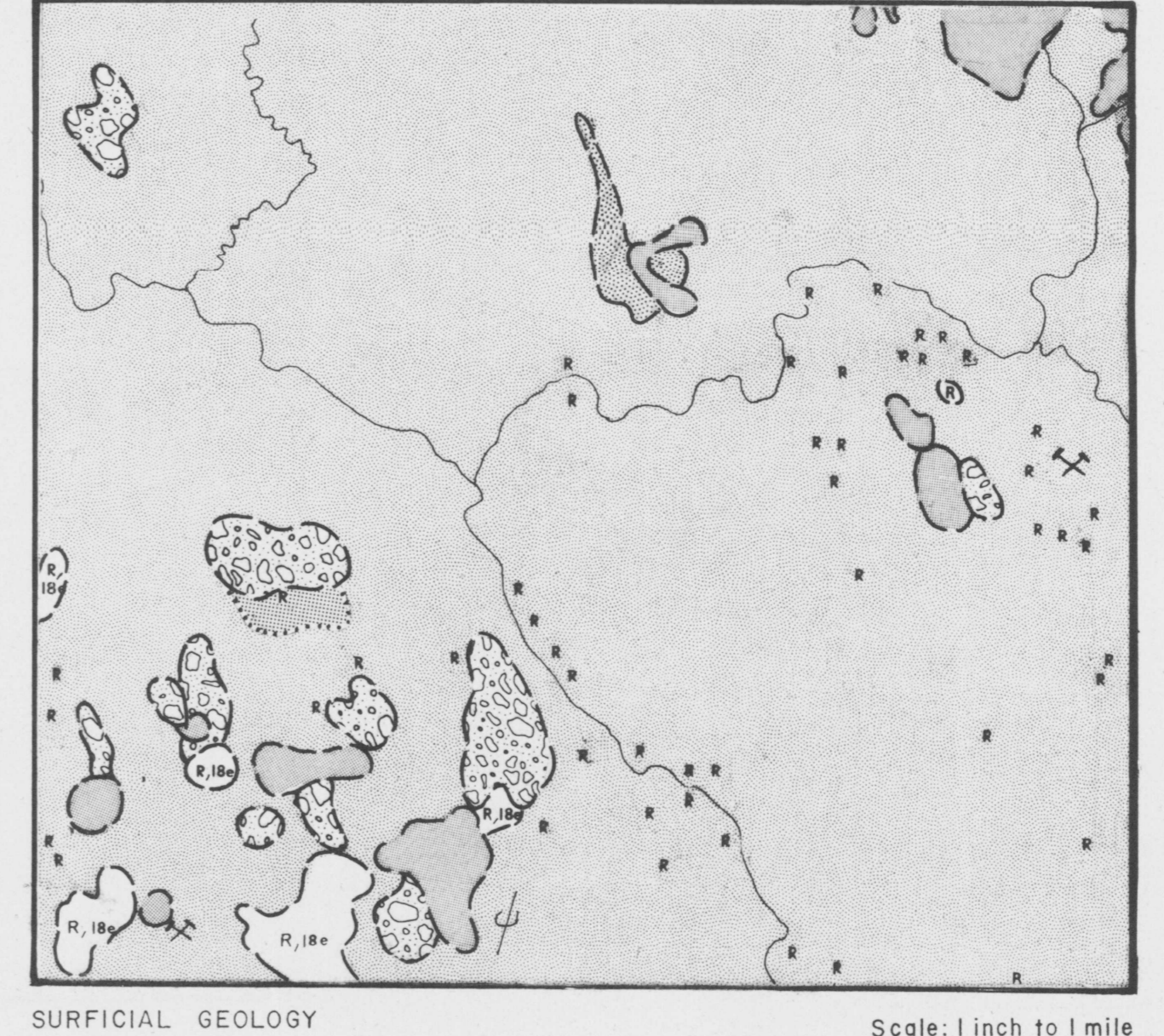
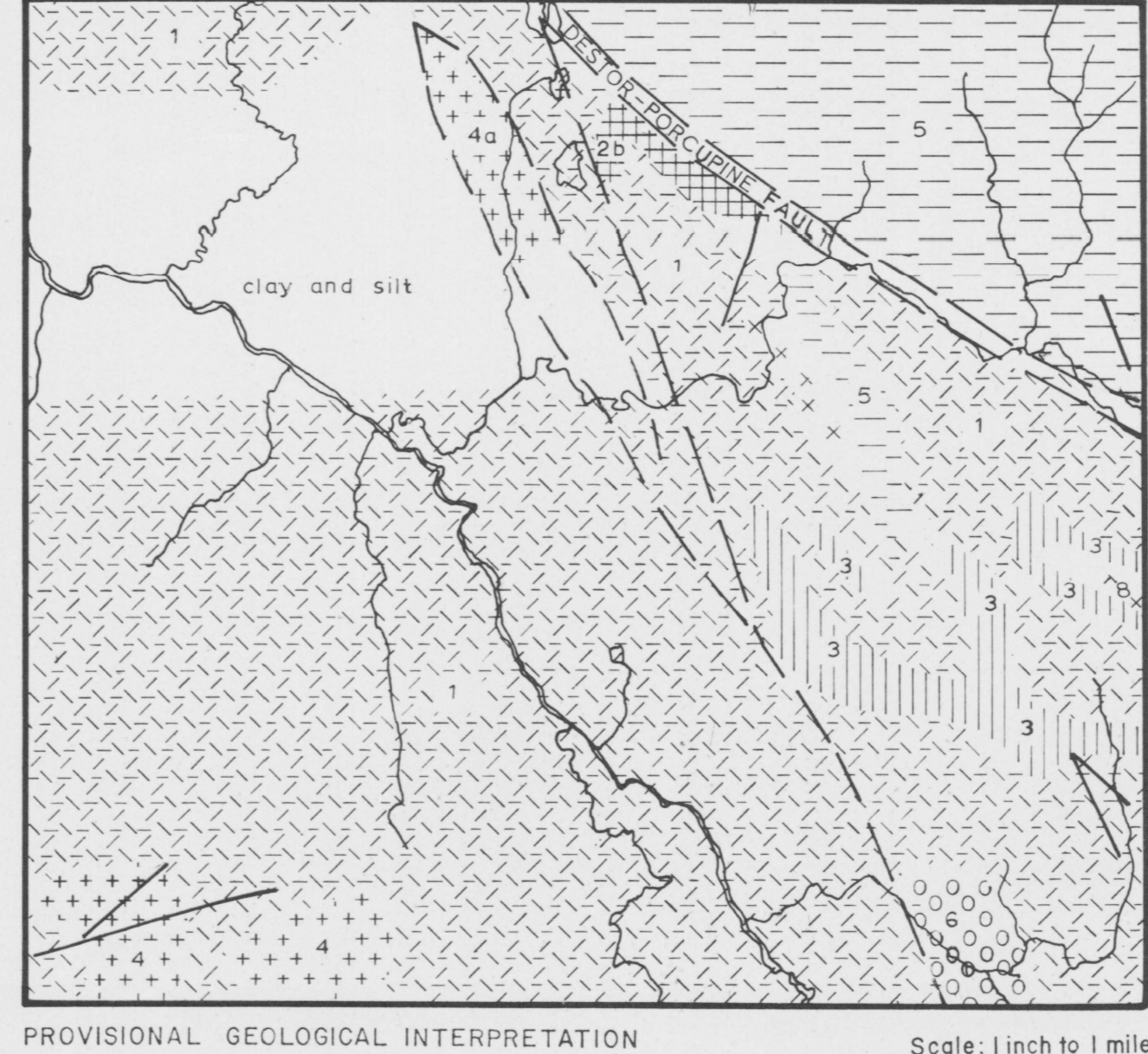
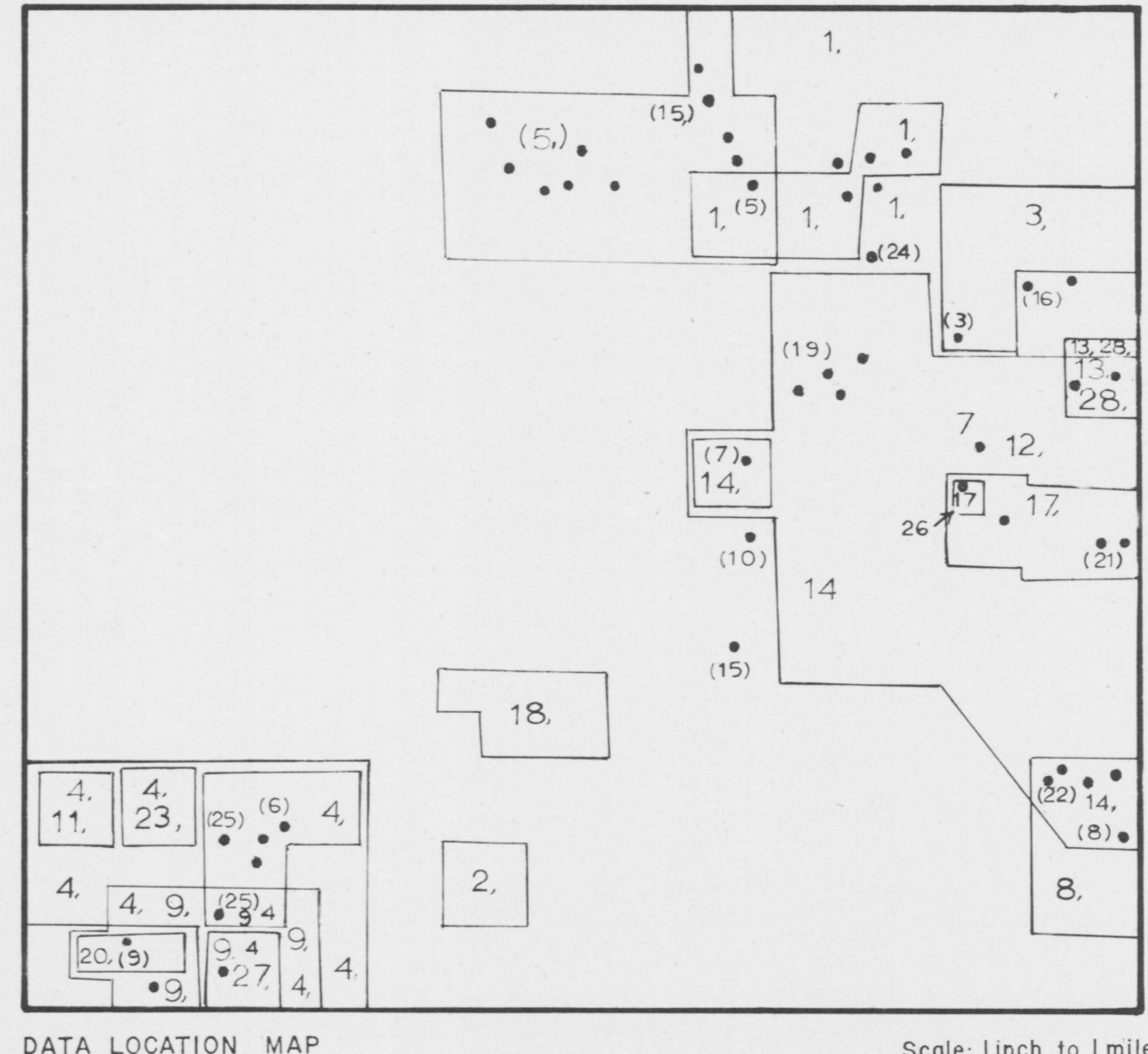
* Quote from report; Composite

Di geology mapped where multiple Di are indicated *by in carbonatized lc cut by 4s dikes; py, sp, Au

** Assays, trenching

*** Drill hole geology mapped, complete drill logs not available

Note: 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 department 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 list above.



GEOLOGICAL AND MINING SYMBOLS FOR KIRKLAND LAKE DATA SERIES

Glacial striae	Drill hole: (projected vertical), Overburden shown
Saker, medial ridge	Drill hole in overburden only (vertical or oblique, inclined), Overburden shown
Small bedrock outcrop	Shaft; depth in feet
Bedding, top unknown (inclined, vertical)	Mineral occurrence at surface
Bedding, top (arrow) from grain gradation (inclined, vertical, overturned)	Airborne electromagnetic anomaly (Canadian Aero System)
Bedding, top (arrow) from cross bedding (inclined, overturned)	Airborne electromagnetic anomaly (Geoscan 9 Channel Loop System)
Lava flow; top (arrow) from pillow shape and packing	2 channel response
Substratum: horizontal, inclined, vertical	3 channel response
4 channel response, horizontal, inclined, vertical	4 channel response
5 channel response, horizontal, inclined, vertical	5 channel response
Lithiation with plunge	6 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 (100-metre loop; VLF-wire line circuit; VLF-DC-loop DL-ID)
Fault; (observed, assumed)	Induced Polarization anomaly
Spot indicates down throw side, arrows indicate horizontal movement	Spontaneous Polarization anomaly
Lithiation	Gravity anomaly
Lithiation: horizontal, inclined, vertical	Radioactive anomaly
Drag folds with plunge	Resistivity anomaly
Anticline, syncline, with plunge	

METAL AND MINERAL REFERENCE

For Kirkland Lake Data Series

Ag	Silver	Mo	Molybdenite
Au	Gold	Ni	Nickel
As	Arsenic	Pb	Lead
Cd	Cadmium	Pt	Platinum
Co	Cobalt	Px	Pastlandite
Cu	Copper	Py	Pyroxenite
Cr	Chromium	Pt	Platinum
Cu	Copper	Py	Pyroxenite
Ep	Episite	qv	Quartz-carbonate vein
Fe	Iron	Qz	Quartz
Ft	Ferrous	Sp	Serpentine
G	Garnet	St	Staurolite
Gn	Galenite	Spc	Spinel
Mag	Magnetite	Spk	Spinel
Mn	Manganese	Ss	Sulphide
Ni	Nickel	St	Staurolite

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.

375 Reference 42 4/8, 42 4/9

CGM-200 Aeromagnetic Map 2956 (rev.), 2960 (rev.)

CGS Geological Compilation Series Map 204

CGS Annual Report vol. 65 (1955), Part 5

CGS Total Intensity Aeromagnetic Map 1-45

CGS Total Count Helicopter Gamma Ray Spectrometer Map P-451

CGS Magnetometer Map P-451

CGS Magnetometer Helicopter 5-Phase Map P-451

CGS In-Line / In-Phase Helicopter Radiophase Map P-451

CGS Surface Geology Maps 44-1999, 1-1960

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