



Ministry of
Northern Affairs
and Mines

René Fontaine
Minister
David Hobbs
Deputy Minister

GEOSCIENCE DATA FILE NEWS

Issue 5

As announced in 1983 and 1984, the GEOSCIENCE DATA FILE is the microfiche-based system being implemented for exploration/assessment reports received from the mining industry. Reports received since March 1984 for the Sault Ste. Marie and Sudbury Resident Geologists Areas have now been microfilmed and are available for sale from Micro-publishing Services Canada Ltd. Also, a number of earlier report and index plan fiche have been updated. Details are given below.

A. Sault Ste. Marie Resident Geologist's Area

REPORT FICHE - NEW REPORTS

Note: Number of fiche is indicated in brackets

| | | | |
|--------------|-------------|----------|------------|
| ABOTOSSAWAY | - 0044 (1) | JACOBSON | - 0058 (2) |
| | - 0045 (1) | | - 0059 (6) |
| | - 0046 (1) | | - 0060 (1) |
| ALBANEL | - 0047 (2) | | - 0061 (2) |
| | - 0048 (1) | | - 0062 (1) |
| BAILLOQUET | - 0020 (1) | | - 0063 (3) |
| BRUYERE | - 0019 (2) | | - 0064 (3) |
| | - 0020 (6) | | - 0065 (2) |
| | - 0021 (1) | JARVIS | - 0024 (2) |
| CHABANEL | - 0049 (1) | JOGUES | - 0022 (2) |
| | - 0050 (2) | | - 0023 (1) |
| | - 0051 (2) | KEATING | - 0013 (1) |
| CHESLEY | - 0015 (1) | LECLAIRE | - 0016 (2) |
| COOPER | - 0010 (1) | LEESON | - 0029 (2) |
| COPENACE | - 0012 (1) | LENDRUM | - 0017 (2) |
| CUDNEY | - 0010 (1) | LUNKIE | - 0010 (1) |
| DAHL | - 0012 (6) | | - 0011 (1) |
| DAMBROSSIO | - 0012 (2) | MAGONE | - 0010 (1) |
| | - 0013 (2) | MARSH | - 0011 (1) |
| DEBASSIGE | - 0016 (2) | MATTHEWS | - 0010 (2) |
| DOLSON | - 0016 (2) | | - 0011 (2) |
| | - 0017 (2) | MCMURRAY | - 0050 (1) |
| DOUCETT | - 0011 (1) | | - 0051 (2) |
| ECHUM | - 0012 (1) | | - 0052 (1) |
| ESQUEGA | - 0028 (2) | | - 0053 (2) |
| | - 0029 (1) | | - 0054 (2) |
| FINAN | - 0027 (18) | | - 0055 (2) |
| | - 0028 (1) | | - 0056 (1) |
| | - 0029 (1) | | - 0057 (1) |
| | - 0030 (1) | | - 0058 (1) |
| GAPP | - 0018 (1) | MEATH | - 0028 (1) |
| | - 0019 (1) | | - 0029 (1) |
| | - 0020 (1) | MOSAMBIK | - 0015 (2) |
| | - 0021 (1) | NAMEIGOS | - 0015 (1) |
| GAUDETTE | - 0024 (3) | | - 0016 (1) |
| GROSEILLIERS | - 0016 (2) | | - 0017 (1) |
| HAMBLETON | - 0012 (4) | | - 0018 (1) |
| | - 0013 (1) | NAVEAU | - 0020 (2) |
| | - 0014 (1) | | - 0021 (1) |
| | - 0015 (1) | NICHOLAS | - 0030 (1) |
| | - 0016 (1) | | - 0031 (1) |
| | - 0017 (1) | | - 0032 (1) |
| | - 0018 (1) | ODLUM | - 0010 (1) |
| | - 0019 (2) | | - 0011 (1) |
| HUGHES | - 0017 (2) | | - 0012 (1) |
| | | | - 0013 (1) |
| | | | - 0014 (1) |
| | | | - 0015 (1) |

REPORT FICHE - NEW REPORTS (Cont'd).

| | | | |
|-----------|-------------|----------|-------------|
| OLSEN | - 0015 (2) | 42C/12NW | - 0023 (16) |
| PALMER | - 0032 (1) | | - 0024 (2) |
| RABAZO | - 0030 (2) | | - 0025 (1) |
| | - 0031 (2) | | - 0026 (1) |
| | - 0032 (2) | | - 0027 (1) |
| | - 0033 (4) | | - 0028 (1) |
| | - 0034 (4) | | - 0029 (1) |
| | - 0035 (1) | | - 0030 (1) |
| | - 0036 (2) | | - 0031 (1) |
| RENNIE | - 0031 (1) | | - 0032 (1) |
| | - 0032 (2) | | - 0033 (1) |
| | - 0033 (1) | | - 0034 (1) |
| | - 0034 (2) | | - 0035 (1) |
| | - 0035 (1) | | - 0036 (1) |
| RIGGS | - 0019 (2) | | - 0037 (1) |
| | - 0020 (2) | | - 0038 (1) |
| ROSE | - 0013 (1) | | - 0039 (1) |
| RUNNALLS | - 0016 (1) | | - 0040 (2) |
| | - 0017 (1) | | - 0041 (2) |
| STOVER | - 0026 (2) | | - 0042 (2) |
| TEDDER | - 0010 (1) | | - 0043 (2) |
| WAY-WHITE | - 0010 (1) | | - 0044 (2) |
| | - 0012 (1) | | - 0045 (2) |
| WELLS | - 0011 (1) | | - 0046 (3) |
| WEST | - 0017 (2) | | - 0047 (2) |
| | - 0018 (2) | | - 0048 (3) |
| 41N/13NW | - 0011 (1) | | - 0049 (4) |
| 41N/14NW | - 0013 (1) | | - 0050 (2) |
| 42C/03SW | - 0021 (1) | | - 0051 (3) |
| | - 0022 (2) | | - 0052 (4) |
| | - 0023 (2) | | - 0053 (3) |
| | - 0024 (1) | | - 0054 (4) |
| | - 0025 (9) | | - 0055 (4) |
| | - 0026 (1) | | - 0056 (2) |
| 42C/04NE | - 0015 (2) | | - 0057 (1) |
| 42C/06SW | - 0010 (2) | | - 0058 (2) |
| 42C/11NW | - 0010 (2) | | - 0059 (1) |
| | - 0011 (1) | | - 0060 (2) |
| | - 0012 (1) | | - 0061 (1) |
| 42C/12NE | - 0016 (3) | 42C/12SE | - 0010 (2) |
| | - 0017 (1) | | - 0011 (2) |
| | - 0018 (1) | 42C/12SW | - 0013 (1) |
| | - 0019 (2) | | - 0014 (1) |
| | - 0020 (2) | | - 0015 (2) |
| | - 0021 (2) | | - 0016 (1) |
| | - 0022 (2) | | - 0017 (2) |
| | - 0023 (2) | | - 0018 (3) |
| | - 0024 (2) | 42C/13SE | - 0016 (2) |
| | - 0025 (3) | | - 0017 (1) |
| | - 0026 (4) | | - 0018 (1) |
| | - 0027 (1) | | - 0019 (2) |
| | - 0028 (1) | | - 0020 (2) |
| | - 0030 (28) | | - 0021 (2) |
| | - 0031 (1) | | - 0022 (3) |
| | - 0032 (1) | | - 0023 (1) |
| | - 0033 (3) | 42C/14NW | - 0011 (2) |
| | - 0034 (1) | | - 0012 (2) |
| | - 0035 (1) | 42D/09SE | - 0018 (2) |
| | - 0036 (2) | | - 0019 (2) |
| | - 0037 (3) | | - 0020 (11) |
| | - 0038 (2) | | - 0021 (2) |
| | - 0039 (3) | | |
| | - 0040 (2) | | |

Total Number of Fiche: 442

REPORT FICHE - UPDATES TO EXISTING FICHE

| Fiche Number | Type of Revision |
|------------------------|--|
| ABOTOSSAWAY - 0017 (6) | - Additional Information; - 3 Maps Eliminated; - 3 New Maps Added. |
| - 0022 (4) | - New Map Added |
| AGUONIE - 0011 (4) | - Additional Information; - New Map Added |
| - 0012 (5) | - Additional Information |
| ALBANEL - 0016 (1) | - Report Revised and Refilmed |
| ASSELIN - 0021 (2) | - Additional Information; - 2 New Maps Added |
| BEANGE - 0038 (3) | - Channel B1 Reloaded and Refilmed |
| CHABANEL - 0032 (1) | - Additional Information; - 3 New Maps Added |
| CORBIERE - 0019 (10) | - Additional Information |
| ESQUEGA - 0021 (15) | - Additional Information |
| - 0023 (3) | - Additional Information |
| - 0027 (3) | - Channel A1 Eliminated; - Updated Information Added. |
| FINAN - 0016 (5) | - Additional Information |
| JACOBSON - 0037 (3) | - Additional Information |
| KEATING - 0011 (5) | - Additional Information - 1 New Map Added. |
| MCMURRAY - 0043 (3) | - Eliminated Last 4 Pages of Channel C1 |
| RABAZO - 0018 (1) | - Channel B1 Updated and Refilmed; - Report B1 Map No. 1 Eliminated |
| STRICKLAND - 0010 (2) | - Information Eliminated - New Information Added; - 2 Maps Eliminated. |
| 41N/13SW - 0011 (1) | - Additional Information To B1 & D1 Reports |
| - 0012 (1) | - Additional Information To A1 & D1 Reports |
| 42C/12NW - 0017 (2) | - Additional Information To A1 Report |
| - 0021 (2) | - Additional Information |
| 42C/12SW - 0012 (1) | - Additional Information. |

Total Number of Fiche: 83

INDEX PLAN FICHE - UPDATES/NEW INDEXES

| | | | |
|-----------------|--------------------|-------------------|-------------------|
| Abotossaway (1) | Echum (1) | Matthews (1) *New | Viel (1) |
| Aguonie (1) | Esquega (1) | McMurray (1) | Way-White (1) |
| Albanel (1) | Finan (1) | Meath (1) | Wells (1) |
| Asselin (1) | Franchere (1) | Mosambik (1) | West (1) |
| Bailloquet (1) | Galbraith (1) | Musquash (1) | 41N/13NW (1) |
| Bird (1) | Gapp (1) | Nameigos (1) | 41N/14NW (1) |
| Bostwick (1) | Gaudette (1) | Naveau (1) | 42C/03NW (1) |
| Bruyere (1) | Gladstone (1) | Nicholas (1) | 42C/03SW (1) |
| Carney (1) *New | Glasgow (1) | Odium (1) | 42C/04NE (1) |
| Chabanel (1) | Groseilliers (1) | Olsen (1) | 42C/04SW (1) |
| Charbonneau (1) | Hambleton (1) | Palmer (1) | 42C/06SW (1) *New |
| Chesley (1) | Hembruff (1) | Patton (1) | 42C/11NW (1) *New |
| Cooper (1) *New | Hughes (1) | Poulin (1) | 42C/11SW (1) *New |
| Copenace (1) | Jacobson (1) | Rabazo (2) | 42C/12NE (1) |
| Corbiere (1) | Jarvis (1) | Raimbault (1) | 42C/12NW (1) |
| Cudney (1) | Jogues (1) | Rennie (1) | 42C/12SE (1) *New |
| Dahl (1) | Joubin (1) | Riggs (1) | 42C/12SW (1) |
| Dambrossio (1) | Keating (1) | Rose (1) | 42C/13SE (1) |
| Daumont (1) | Keesickquayash (1) | Runnalls (1) | 42C/14NW (1) |
| Debassige (1) | Leclaire (1) | Running (1) | 42D/09SE (1) |
| Desbiens (1) | Lesson (1) | Sagard (1) | |
| Dolson (1) | Lendrum (1) | Stover (1) | |
| Doucett (1) | Lunkie (1) | Strickland (1) | |
| Duncan (1) | Magone (1) | Tedder (1) *New | |
| Dunphy (1) | Marsh (1) | Tiernan (1) | |

Total Number of Fiche: 96

B. Sudbury Resident Geologist's Area

REPORT FICHE - NEW REPORTS

| | | | |
|------------|------------|-------------|------------|
| AYLMER | - 0018 (1) | PARKIN | - 0037 (1) |
| CRAIG | - 0024 (1) | | - 0038 (1) |
| | - 0025 (1) | | - 0039 (1) |
| CURTIN | - 0021 (1) | | - 0040 (1) |
| | - 0022 (1) | | - 0041 (1) |
| DAVIS | - 0050 (1) | RATHBUN | - 0028 (1) |
| | - 0051 (1) | | - 0029 (1) |
| | - 0052 (1) | | - 0030 (1) |
| | - 0053 (1) | | - 0031 (1) |
| | - 0054 (1) | | - 0032 (3) |
| DRYDEN | - 0020 (2) | | - 0033 (1) |
| DUNLOP | - 0011 (2) | | - 0034 (1) |
| | - 0012 (3) | | - 0035 (3) |
| EDEN | - 0020 (2) | | - 0036 (1) |
| ERMATINGER | - 0014 (1) | ROOSEVELT | - 0014 (1) |
| FOSTER | - 0027 (2) | | - 0015 (1) |
| | - 0028 (1) | | - 0016 (2) |
| FRALECK | - 0013 (1) | | - 0017 (1) |
| GOSCHEN | - 0011 (1) | | - 0018 (1) |
| | - 0012 (3) | SALE | - 0010 (1) |
| KELLY | - 0015 (1) | SCADDING | - 0033 (1) |
| LEVACK | - 0016 (1) | | - 0034 (1) |
| | - 0017 (1) | | - 0035 (1) |
| | - 0018 (1) | | - 0036 (1) |
| MACKELCAN | - 0021 (4) | | - 0037 (2) |
| | - 0022 (2) | | - 0038 (2) |
| | - 0023 (2) | | - 0039 (2) |
| MACLENNAN | - 0027 (1) | | - 0040 (2) |
| | - 0028 (1) | | - 0041 (1) |
| MCCONNELL | - 0012 (1) | | - 0042 (1) |
| MCKINNON | - 0015 (1) | | - 0043 (2) |
| | - 0016 (1) | | - 0044 (2) |
| MONGOWIN | - 0021 (1) | SHAKESPEARE | - 0037 (1) |
| | - 0022 (1) | STREET | - 0014 (2) |
| NORMAN | - 0025 (1) | | - 0015 (1) |
| | | | - 0016 (2) |
| | | ULSTER | - 0012 (1) |

Total Number of Fiche: 98

REPORT FICHE - UPDATES TO EXISTING FICHE

| Fiche Number | Type of Revision |
|----------------------|--------------------------------|
| MACLENNAN - 0022 (1) | - Additional Information on A1 |
| STREET - 0013 (2) | - Additional Information |

Total Number of Fiche: 3

INDEX PLAN FICHE - UPDATES/NEW INDEXES

| | | | |
|--------------|----------------|---------------|-----------------|
| Awrey (1) | Dryden (1) | Mackelcan (1) | Sale (1) |
| Aylmer (1) | Dunlop (1) | MacIennan (1) | Scadding (1) |
| Beaumont (1) | Eden (1) | McConnell (1) | Shakespeare (1) |
| Bevin (1) | Ermatinger (1) | McKinnon (1) | Stalin (1) *New |
| Caen (1) | Foster (1) | Mongowin (1) | Street (1) |
| Craig (1) | Fraleck (1) | Norman (1) | Telfer (1) |
| Curtin (1) | Goschen (1) | Parkin (1) | Truman (1) |
| Davis (2) | Kelly (1) | Rathbun (1) | Ulster (1) |
| Dieppe (1) | Levack (1) | Roosevelt (1) | |

Total Number of Fiche: 36

HOW TO ORDER

The Geoscience Data File will expand as new reports are added. Therefore, the price of complete sets depends on the number of fiche available at the time of ordering. Current prices, tax included, are:

SAULT STE. MARIE area: \$1,121.90

Includes - 3285 Report Fiche
- 333 Index Plan Fiche

SUDBURY: \$530.60

Includes - 1445 Report Fiche
- 202 Index Plan Fiche

For exact pricing of complete or partial sets, contact MSCL. The supplier has set a sliding price scale for the first 100 fiche ordered; subsequent fiche in the same order are charged at the flat rate of 30¢ each, tax included.

Contact Addresses

FICHE ORDERS

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Attention: Ms. R.M. Kramer

GENERAL INFORMATION

Geoscience Data Centre
Ontario Geological Survey
77 Grenville Street, Room 819
Toronto, Ontario M5S 1B3
Telephone: (416) 965-6139
or
Resident/Regional Geologist's Office

LANDS AND WATERS GROUP

Whitney Block, 99 Wellesley St.W., Toronto M7A 1W3

| | PHONE | | PHONE |
|---|----------|-----------------------------|----------|
| Surveys & Mapping Branch | 965-6225 | Land Management Branch | 965-1316 |
| Ontario Basic Mapping | 965-1208 | Mining Lands Section | 965-1380 |
| Geographical Referencing | 965-4538 | Public Lands Section | 965-2741 |
| Surveys Section | 965-2714 | Titles Section (Claim Maps) | 965-1319 |
| Ontario Centre for Remote Sensing, 880 Bay Street, 3rd Floor, Toronto | | | 965-8411 |

Mining Recorders' Office

Chief Mining Recorder: W.L. Good, 99 Wellesley St. W., 6th Floor, Toronto 963-3093

| | | | |
|--|----------------|---|----------------|
| Red Lake Division P.O. Box 5003 Red Lake POV 2M0 | (807) 727-2253 | Porcupine Division 60 Wilson Avenue Timmins P4N 2S7 | (705) 267-1401 |
| Kenora Division 808 Robertson Street Box 5080 Kenora P9N 3X9 | (807) 468-9841 | Sudbury Division 199 Larch Street 10th Floor Sudbury P3E 5P9 | (705) 675-4125 |
| Patricia Division P.O. Box 309 Court House Sioux Lookout POV 2T0 | (807) 737-2100 | Larder Lake Division 4 Government Road East Kirkland Lake P2N 1A2 | (705) 567-9241 |
| Thunder Bay Division P.O. Box 5000 435 James St., South Thunder Bay P7C 5G6 | (807) 475-1311 | Eastern Ontario Division 99 Wellesley St. West 2nd Floor Toronto M7A 1W3 | (416) 965-1322 |
| Sault Ste. Marie Division P.O. Box 669 875 Queen St.E. Sault Ste. Marie P6A 5N2 | (705) 949-1231 | | |

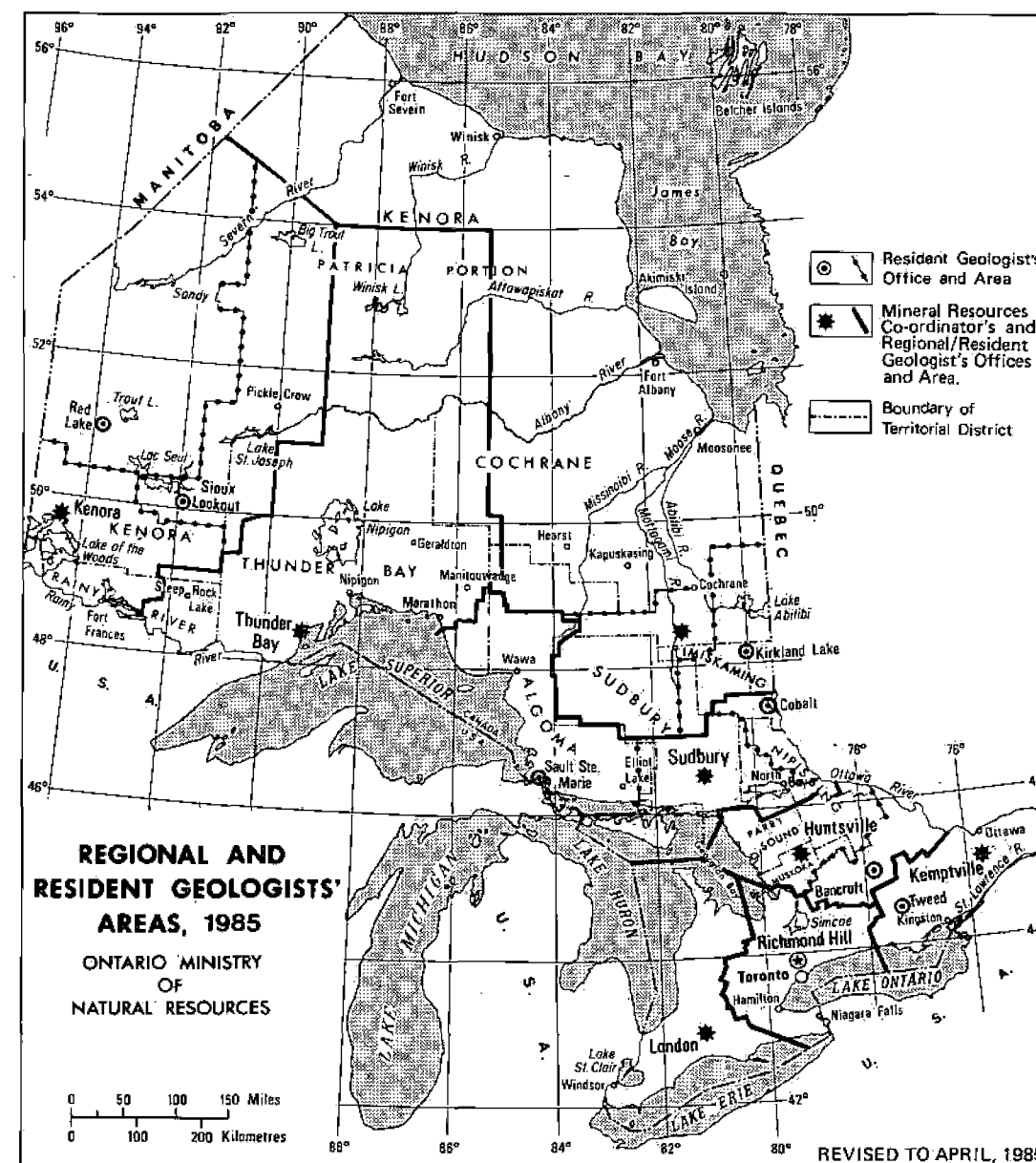
PETROLEUM RESOURCES' OFFICE

| | | | |
|---|----------------|---|----------------|
| Petroleum Resources Section 659 Exeter Rd., Box 5463 London N6A 4L6 | (519) 681-5350 | Petroleum Resources Laboratory 458 Central Avenue London N6E 2B5 | (519) 433-8431 |
|---|----------------|---|----------------|

OTHER CONTACTS

| | | | |
|---|----------------------|---|----------|
| Natural Resources Library 99 Wellesley St. W., 4th Floor | 965-6319 | Natural Resources Personnel Services 99 Wellesley St. W., 4th Floor | 965-2707 |
| Mines Library 77 Grenville St., 8th Floor | 965-1352 | Public Information Centre Publications, maps, aerial photos, etc. Room 1640 99 Wellesley St.W. Toronto, Ontario M7A 1W3 | 965-1348 |
| Communications Services Branch 99 Wellesley St. W., 5th Floor General Inquiry Film Library | 965-2756 965-1325 | Geoscience Data Centre, Data Depository 77 Grenville St., 8th Floor | 965-6139 |

FIELD OFFICES



MINERAL RESOURCES CO-ORDINATORS' OFFICES

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| North Central Region | 435 James St. S., Thunder Bay P7C 5G6 | (807) 475-1331 |
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| Algonquin Region | Brendale Sq., Box 9000, Huntsville P0A 1K0 | (705) 789-9611 |
| Eastern Region | Concession Road, Kemptville K0G 1K0 | (613) 258-3413 |
| Central Region | 10670 Yonge St., Richmond Hill L4C 3C9 | (416) 884-9203 |
| Southwestern Region | 659 Exeter Rd., Box 5463, London N6A 4L6 | (519) 681-5350 |

REGIONAL/RESIDENT GEOLOGISTS' OFFICES

| | | |
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| Kenora | 808 Robertson St., Box 5080, Kenora P9N 3X9 | (807) 468-9841 |
| Red Lake | Ont. Govt. Bldg., Box 5003, Red Lake POV 2M0 | (807) 727-2253 |
| Sioux Lookout | Court House Bldg., Box 309, Sioux Lookout POV 2T0 | (807) 737-1140 |
| Thunder Bay | 435 James St., S., Thunder Bay P7C 5G6 | (807) 475-1331 |
| Porcupine North | 60 Wilson Ave., Timmins P4N 2S7 | (705) 267-1401 |
| Porcupine South | 60 Wilson Ave., Timmins P4N 2S7 | (705) 267-1401 |
| Kirkland Lake | 4 Government Rd., E., Kirkland Lake P2N 1A2 | (705) 567-9242 |
| Sudbury | 10th fl., 199 Larch St., Sudbury P3E 5P9 | (705) 675-4128 |
| Sault Ste. Marie | 875 Queen St. E., Sault Ste. Marie P6A 2B3 | (705) 949-1231 |
| Cobalt | Box 230 Presley St., Cobalt P0J 1C0 | (705) 679-8558 |
| Huntsville | Brendale Sq., Box 9000, Huntsville P0A 1K0 | (705) 789-9611 |
| Bancroft | Hwy. 28, Box 500, Bancroft K0L 1C0 | (613) 332-3940 |
| Tweed | 255 Metcalf St., Box 70, Tweed K0K 3J0 | (613) 478-2330 |
| Richmond Hill | 10670 Yonge St., Richmond Hill L4C 3C9 | (416) 884-9203 |
| London | 458 Central Ave., London N6B 2E5 | (519) 433-8431 |

MINERAL PRODUCTION IN ONTARIO

| | UNIT | 1980 | | 1981 ^p | | % |
|-------------------------------|-------|---------------|---------------|-------------------|---------------|--------|
| | | VOLUME | \$ VALUE | VOLUME | \$ VALUE | |
| METALS | | | | | | |
| Bismuth | kg | 779,133 | 5,283,454 | 1,000 | 8,000 | |
| Cadmium | kg | 530,606 | 3,421,621 | 566,000 | 4,241,000 | |
| Calcium | kg | 1,685,948 | 106,900,800 | 1,569,000 | 88,096,000 | |
| Cobalt | kg | 245,024,420 | 631,187,524 | 228,192,000 | 504,738,000 | |
| Copper | kg | 18,497 | 403,893,082 | 16,518 | 292,638,000 | |
| Gold | tonne | 6,569,131 | 261,998,580 | 5,267,000 | 247,213,000 | |
| Iron Ore | kg | 8,959,858 | 9,087,822 | 2,264,000 | 2,222,000 | |
| Lead | kg | 9,252,035 | 27,821,844 | 8,775,000 | 30,197,000 | |
| Magnesium | kg | 145,607,461 | 1,154,868,925 | 127,206,000 | 1,159,747,000 | |
| Nickel | kg | 12,776 | 158,923,378 | 18,914 | 223,214,000 | |
| Platinum Group | kg | 43,091 | 1,068,915 | 57,000 | 1,365,000 | |
| Selenium | kg | 461,027 | 335,566,122 | 324,000 | 130,784,000 | |
| Silver | kg | 4,906 | 246,560 | 4,000 | 67,000 | |
| Tellurium | kg | 103,012 | 1,989,997 | 86,000 | 1,698,000 | |
| Tin | kg | 4,429,058 | 464,099,607 | 4,664,000 | 467,925,000 | |
| Uranium (U) | kg | 253,329,025 | 242,806,654 | 246,613,000 | 295,936,000 | |
| Zinc | kg | 3,809,164,885 | 3,454,323,000 | 3,454,323,000 | 80.8% | |
| NON-METALS | | | | | | |
| Barite | tonne | 5,000 | 500,000 | ... | 800,000 | |
| Gemstones | kg | 90,000 | 51,736 | ... | 60,000 | |
| Gypsum | tonne | 740,030 | 5,728,570 | 688,000 | 5,353,000 | |
| Magnetite | tonne | 5,900 | 57,219 | ... | ... | |
| Nepheline Syenite | tonne | 599,699 | 16,544,153 | 606,000 | 17,834,000 | |
| Peat | tonne | 7,721 | 938,881 | 8,000 | 787,000 | |
| Quartz | tonne | 398,759 | 8,234,895 | 1,013,000 | 11,079,000 | |
| Salt | tonne | 4,871,117 | 71,400,615 | 4,963,000 | 77,121,000 | |
| Serpentine Filler | tonne | 4,097 | 509,822 | ... | ... | |
| Soapstone, Talc, Pyrophyllite | tonne | 16,313 | 1,697,535 | 26,840 | 2,684,000 | |
| Sulphur in smelter gas | tonne | 521,144 | 12,534,923 | 505,000 | 12,155,000 | |
| Sulphur (S) | tonne | 20,511 | 906,019 | 22,000 | 1,200,000 | |
| Total Non-Metals | | | 119,104,368 | | 129,073,000 | 3.0% |
| FUELS | | | | | | |
| Natural Gas | cu.m. | 445,232,000 | 33,481,424 | 407,000,000 | 34,788,000 | |
| Petroleum (Crude) | cu.m. | 93,882 | 9,787,181 | 92,000 | 10,975,000 | |
| Total Fuels | | | 43,268,605 | | 45,743,000 | 1.1% |
| STRUCTURAL MATERIALS | | | | | | |
| Clay Products | tonne | ... | 58,109,858 | ... | 69,366,000 | |
| Cement | tonne | 4,067,347 | 190,792,978 | 3,620,000 | 200,115,000 | |
| Lime | tonne | 1,883,447 | 74,389,285 | 1,711,000 | 103,500,000 | |
| Sand and Gravel | tonne | 77,580,254 | 133,979,765 | 75,000,000 | 150,000,000 | |
| Stone | tonne | 36,006,256 | 122,858,916 | 35,000,000 | 122,000,000 | |
| Terrazzo Chips | tonne | 1,922 | 97,672 | ... | ... | |
| Total Structural Materials | | | 580,228,474 | | 644,981,000 | 15.1% |
| Grand Total | | | 4,551,766,332 | | 4,274,120,000 | 100.0% |

^p - preliminary
Source: Mineral Statistics Section, Ministry of Natural Resources

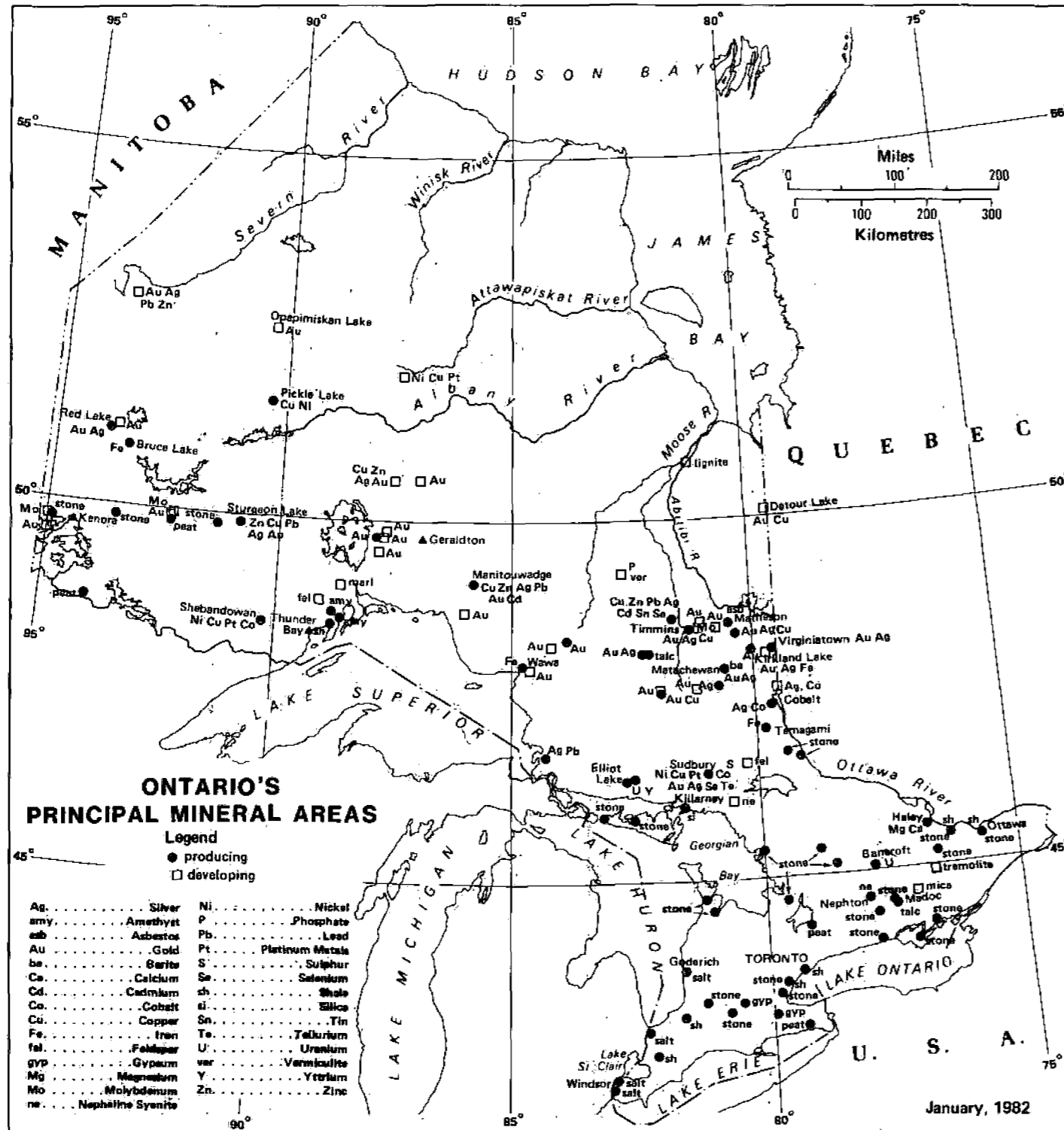
MINING DIVISIONS: SUMMARY OF TRANSACTIONS 1981

| | EASTERN ONTARIO | KENORA | LARDER LAKE | PATRICIA | PORCUPINE | RED LAKE | SAULT STE MARIE | SUDBURY | THUNDER BAY | PROVINCIAL TOTAL |
|-------------------------------|-----------------|--------|-------------|----------|-----------|----------|-----------------|---------|-------------|------------------|
| Mining Claims Recorded | 485 | 2121 | 5498 | 2861 | 8934 | 1719 | 1474 | 3087 | 6844 | 33 023 |
| Mining Claims Cancelled | 758 | 846 | 2697 | 1582 | 2956 | 1249 | 830 | 650 | 4426 | 15 994 |
| Claims in Good Standing | 1531 | 4076 | 15423 | 8303 | 24731 | 4889 | 3109 | 6116 | 13663 | 81 841 |
| Prospector's Licences Issued | 639 | 83 | 244 | 72 | 271 | 64 | 67 | 202 | 263 | 1 905 |
| Prospector's Licences Renewed | 1115 | 83 | 295 | 47 | 308 | 96 | 91 | 189 | 231 | 2 455 |

ASSESSMENT WORK RECORDED (DAYS) - 1981

| | EASTERN ONTARIO | KENORA | LARDER LAKE | PATRICIA | PORCUPINE | RED LAKE | SAULT STE MARIE | SUDBURY | THUNDER BAY | PROVINCIAL TOTAL |
|-------------------------------------|-----------------|--------|-------------|----------|-----------|----------|-----------------|---------|-------------|------------------|
| Manual Labour | 333 | 490 | 2264 | 10 | 1609 | 346 | 430 | 404 | 821 | 6 707 |
| Diamond Drilling | 11855 | 26127 | 69906 | 42588 | 114823 | 28657 | 18338 | 20452 | 71288 | 404 034 |
| Geophysical Surveys | 4041 | 37624 | 125459 | 232184 | 261301 | 63454 | 16585 | 42466 | 178888 | 962 002 |
| Geochemical Surveys | 564 | 203 | 210 | 614 | 904 | 0 | 860 | 120 | 1336 | 4 811 |
| Geological Surveys | 4022 | 3383 | 19536 | 4866 | 23177 | 8183 | 1900 | 2252 | 14947 | 82 266 |
| Land Surveys | 120 | 200 | 2360 | 5720 | 3110 | 2360 | 17 | 22 | 80 | 13 989 |
| Rock Drills & Other Power Equipment | 2601 | 859 | 9677 | 133 | 11549 | 420 | 2878 | 2304 | 10676 | 41 097 |
| Bulldozer | 220 | 1720 | 1141 | 1449 | 4569 | 0 | 457 | 1778 | 0 | 11 334 |
| Core Specimens | 38 | 4 | 322 | 0 | 483 | 0 | 87 | 62 | 0 | 996 |
| Other | 823 | 2122 | 16212 | 72 | 50302 | 3452 | 2321 | 9914 | 2729 | 87 947 |
| Total Days | 24617 | 72732 | 247087 | 287636 | 471827 | 106872 | 43873 | 79774 | 280765 | 1 615 183 |

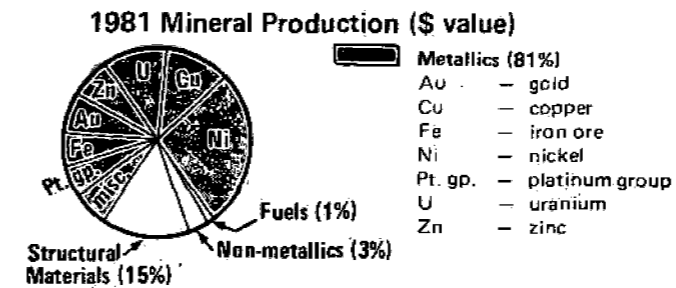
Source: Mineral Statistics Section, Mineral Resources Branch, Ministry of Natural Resources.



5232

ONTARIO'S MINERAL INDUSTRY — 1981

Metals continued to dominate Ontario's mineral production last year (see Graph 1). Our metals not only contributed over 80 per cent of the province's 1981 mineral value, but totaled 25 per cent of all Canada's non-fuel mineral value.

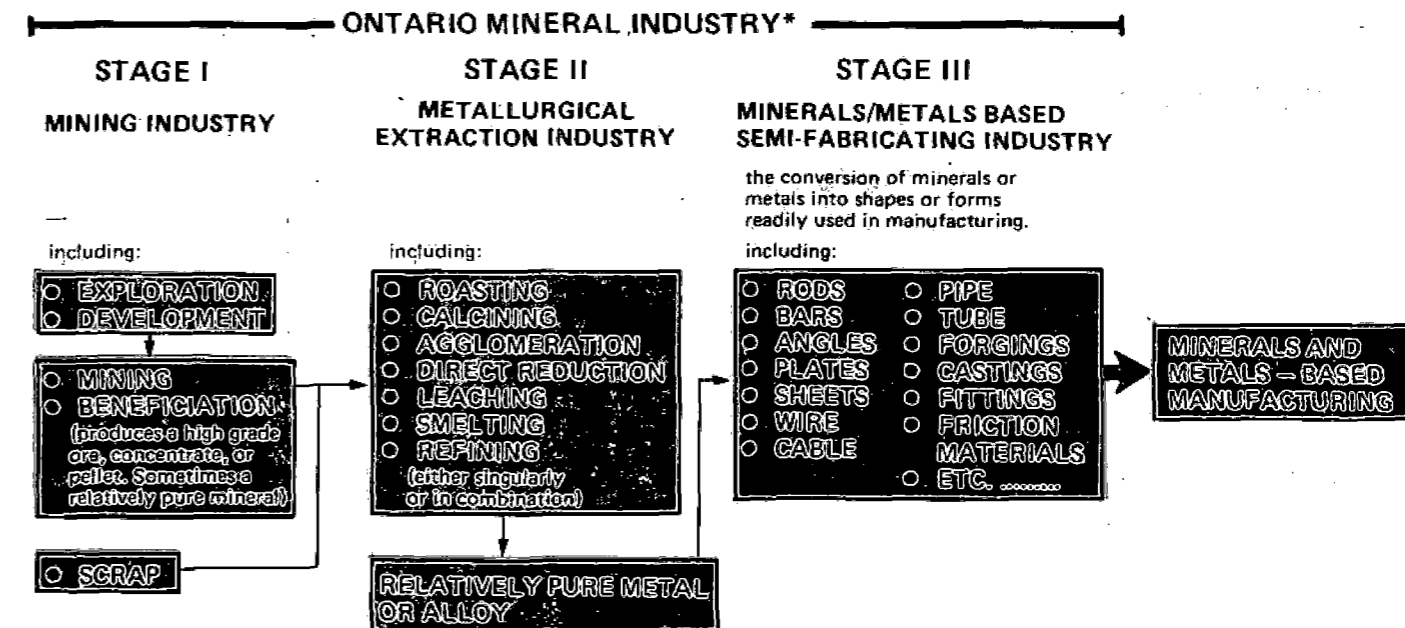


Graph 1

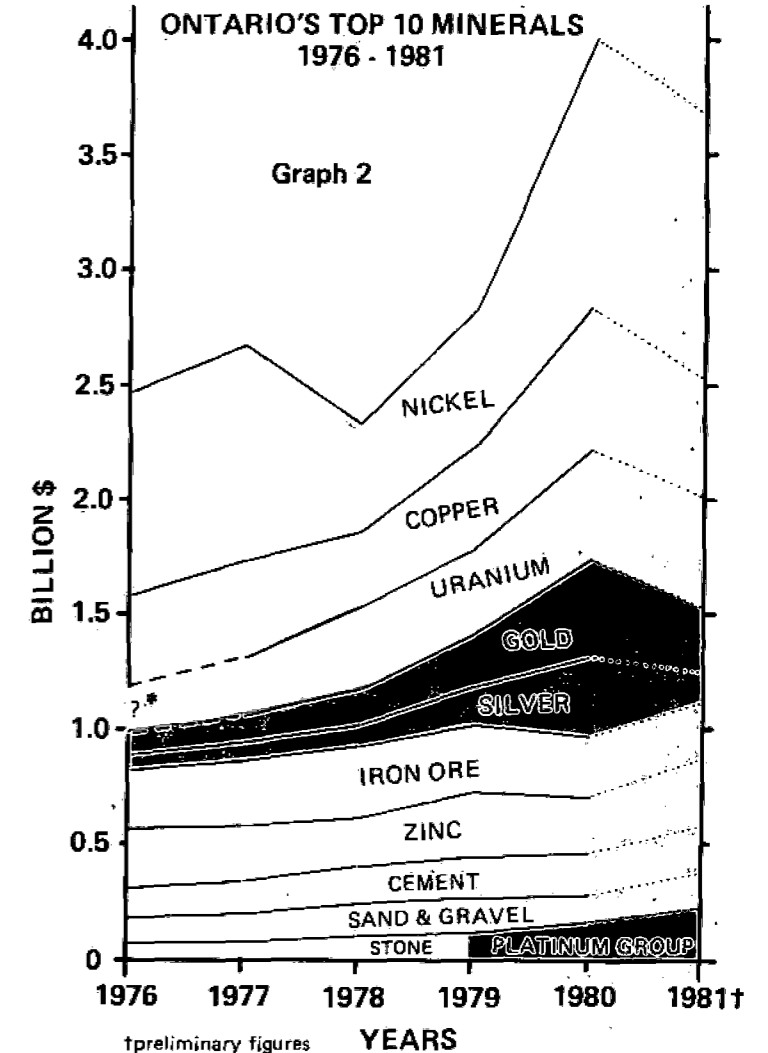
While the 1981 value of mineral production fell six per cent from that of 1980, this decrease was primarily due to reduced silver and gold values (see Graph 2). The average prices for gold and silver in 1981 were 22.7 per cent less for gold and 47.6 per cent less for silver than in 1980.

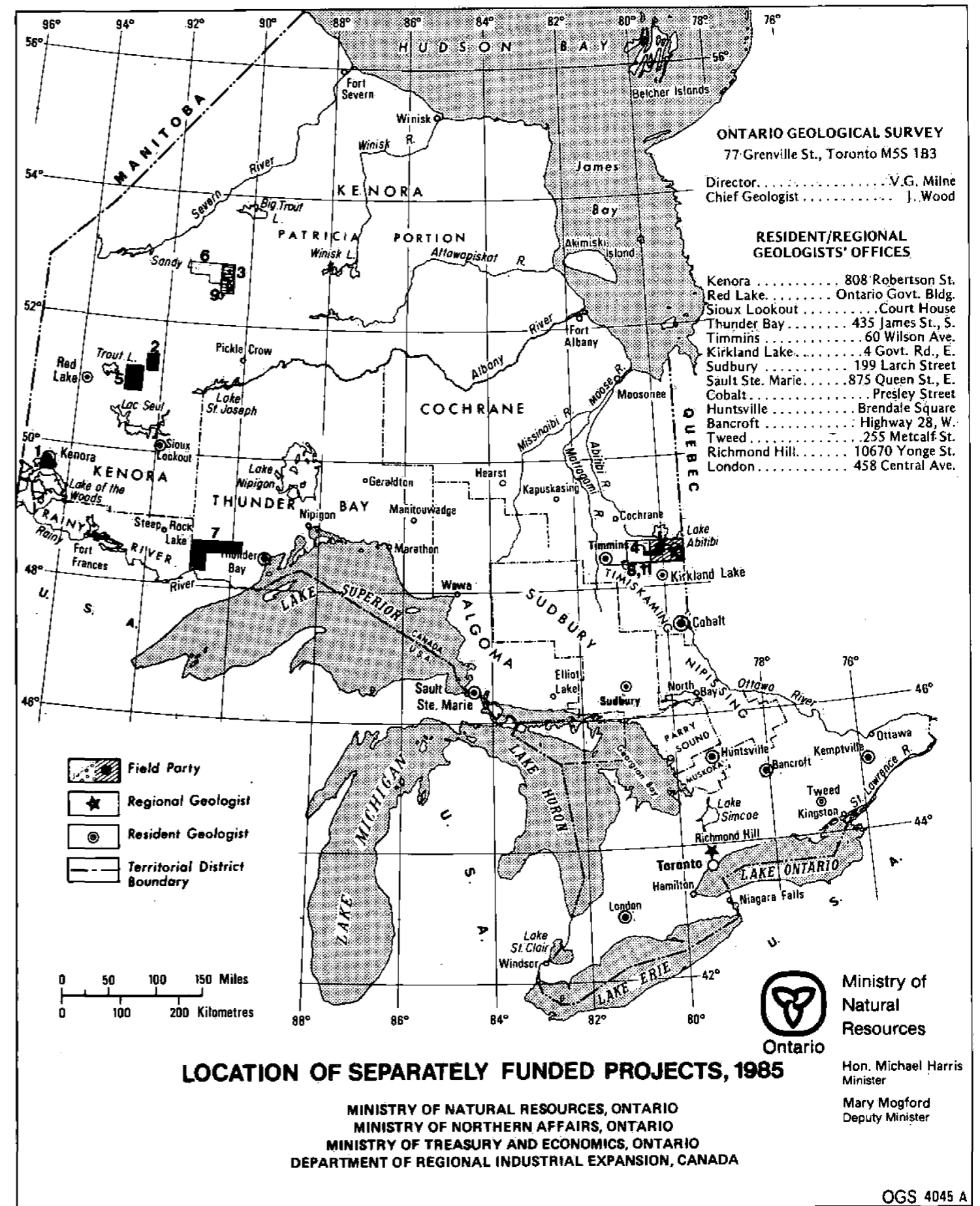
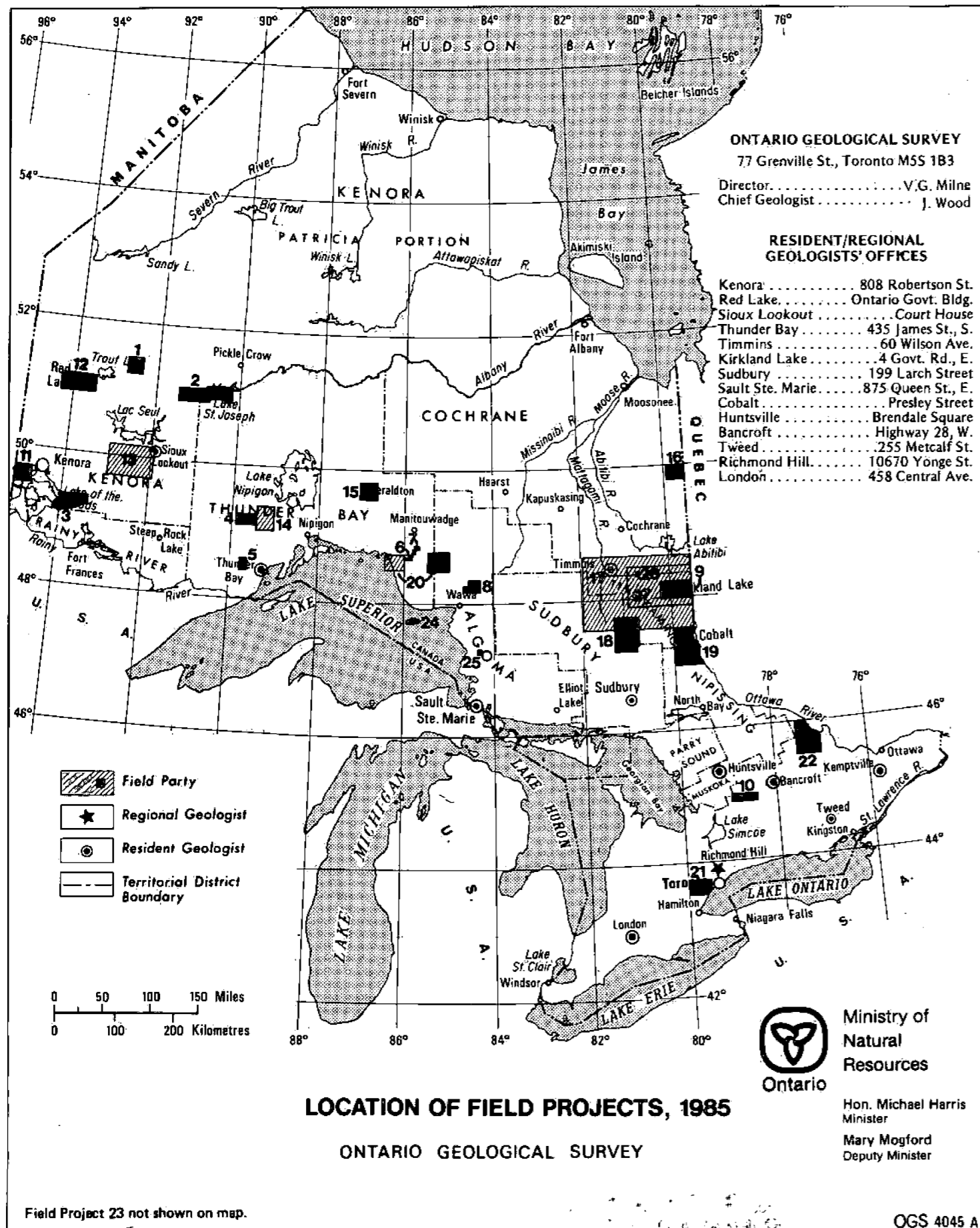
A Complex Technical Industry

The miner, the mill operator, the smelter worker and the exploration diamond driller all work in various stages of the mineral industry. The industry's complexity and variety is indicated below:



*Based on Statistics Canada, Standard Industrial Classification — includes metals, non-metallics, and structural materials. The energy materials uranium, thorium, and yttrium are classified as metals. Does not include the "mineral fuels": petroleum and natural gas.





1985 Special Projects Involving the Ontario Geological Survey

The Ontario Geological Survey has been asked by other government agencies to organize and perform a series of geological, geophysical and geochemical surveys; mineral deposit studies for engineering purposes, and data map preparation to improve data base for mineral exploration by the private sector. These projects are in addition to the regular on-going programs of the Survey.

The Supplementary geoscience programs for 1985 are:

BRiM (Operation Black River-Matheson) funded equally by the Ontario Ministry of Northern Affairs and the Ontario Ministry of Natural Resources.

MNA (Ministry of Northern Affairs) Regional Priority Program funded by the Ontario Ministry of Northern Affairs.

NORDA (Northern Ontario Rural Development Agreement) funded by the Ontario and Federal governments.
24. J. A. C F

LIST OF PROJECTS

Precambrian Geology Section

1. J. A. Ayer will continue mapping in the Bigstone Bay area near Kenora at a scale of 1:15,840 (MNA Funding).
2. Mapping of the eastern part of the Birch Lake area will be conducted at 1:15,840 scale (MNA funding) by R.P. Bowen.
3. F. W. Breaks and J. R. Bartlett will continue mapping of the Opapimiskan Lake area at a scale of 1:15,840 (MNA funding).
4. N. Trowell and R. Johnstone will continue mapping in the Black River-Matheson area at a scale of 1:15,840 (BRiM).

Mineral Deposits Section

5. A. J. Fyon will commence a study of the gold potential of the Ear Falls - Confederation Lake area (MNA).
6. D. Piroshco and H. Shields will continue an examination of metallic minerals in the Opapimiskan Lake area (MNA).
7. L. Chorlton and H. Brown will continue an examination of metallic minerals in the Shebandowan area (NORDA).
8. P. J. Whittaker and D. G. Troop will continue an examination of gold and metallic minerals in the Black River-Matheson area (BRiM).
J. Malczak will continue a study of industrial minerals in the Black River-Matheson area (BRiM)

Engineering & Terrain Geology Section

Quaternary Geology

9. P. F. Finamore will continue with Quaternary geology mapping and bedrock dispersion studies in the Opapimiskan Lake area (MNA).
10. C. L. Baker will continue with Quaternary stratigraphic studies in the Black River-Matheson area at a scale of 1:100,000 (BRiM).

Geophysics/Geochemistry Section

11. K. G. Steele and C. L. Baker will conduct a reconnaissance-scale till-sampling project in the Matheson area (BRiM).

1985 Field Projects of the Ontario Geological Survey

Ontario Geological Survey geoscientists investigate and provide data on mineral resources. Our purpose is to facilitate and stimulate exploration and development, and to aid mineral resource evaluation and land use planning. Our investigations include studies of bedrock and surficial geology, metallic and industrial minerals, and energy sources (uranium, lignite, peat and oil from shale).

During 1985, the Ontario Geological Survey and the Ministry's resident geologists, will continue the ongoing program of detailed and regional field work by carrying out 27 projects. The summary of this field work is expected to be available during December, with the final maps and reports following as quickly as they can be prepared.

LIST OF PROJECTS

Precambrian Geology Section

1. G. P. Beakhouse will commence mapping at a scale of 1:15,840 in the Birch Lake area.
2. G. M. Stott will continue reconnaissance stratigraphic mapping in the Uchi Subprovince at a scale of 1:50,000.
3. G. W. Johns will continue synoptic mapping in the Kakagi-Rowan Lakes area at a scale of 1:50,000.
4. R. H. Sutcliffe will continue mapping of mafic-ultramafic intrusions, this year at Lac des Iles, 1:15,840 scale.
5. M. W. Carter will conduct mapping of Conmee and parts of Forbes Townships and the Dawson Road Lots at a scale of 1:15,840.
6. T. L. Muir will continue a detailed stratigraphic study of the Hemlo area.
7. G. M. Siragusa will continue mapping in the White Lake-Hemlo area at a scale of 1:15,840.
8. R. P. Sage will continue mapping in the northeast Wawa area at 1:15,840 scale.
9. L. S. Jensen will conduct mapping in the Kirkland Lake area at 1:50,000 scale.
10. R. M. Easton will continue mapping in the Minden area in Anson and Lochlin Townships at a scale of 1:15,840.

Mineral Deposits Section

11. Mark Smith will complete a study of the Shoal Lake area and Dupont mine.
12. A. J. Andrews will continue a study of alteration related to mineralization focussing on the Red Lake area. M. Lavigne will complete mapping and alteration studies in the Madsen-Howie-Hasaga gold zone, Red Lake.
13. M. E. Cherry will commence a study of lithophile mineralization in Granitic terrain.

14. A. J. Macdonald will continue a study of Platinum Group Elements in the Lac des Iles area.
15. A. J. Macdonald will complete a study of the Geraldton Gold camp.
16. Soussan Marmont will continue a study of the Detour Lake gold belt.
17. M. E. Cherry will continue to evaluate the relationship between gold mineralization and granitoid intrusion in the Abitibi belt.
18. D. Long and A. C. Colvine will continue detailed sedimentological mapping of the Lorrain Formation and assess its gold potential.
19. L. Owsjicki will continue Archean basement studies in the Cobalt Embayment.

Engineering & Terrain Geology Section

Quaternary Geology

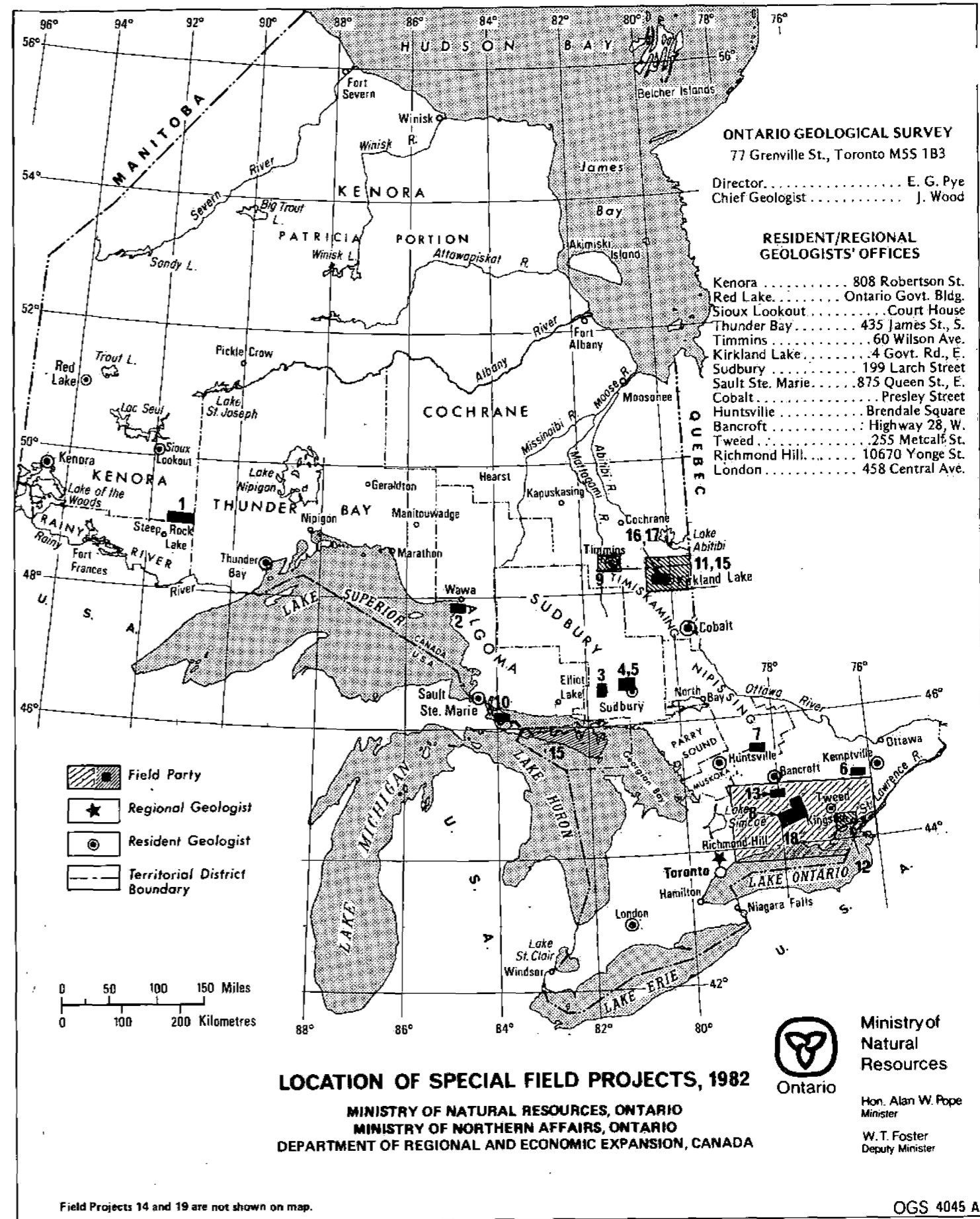
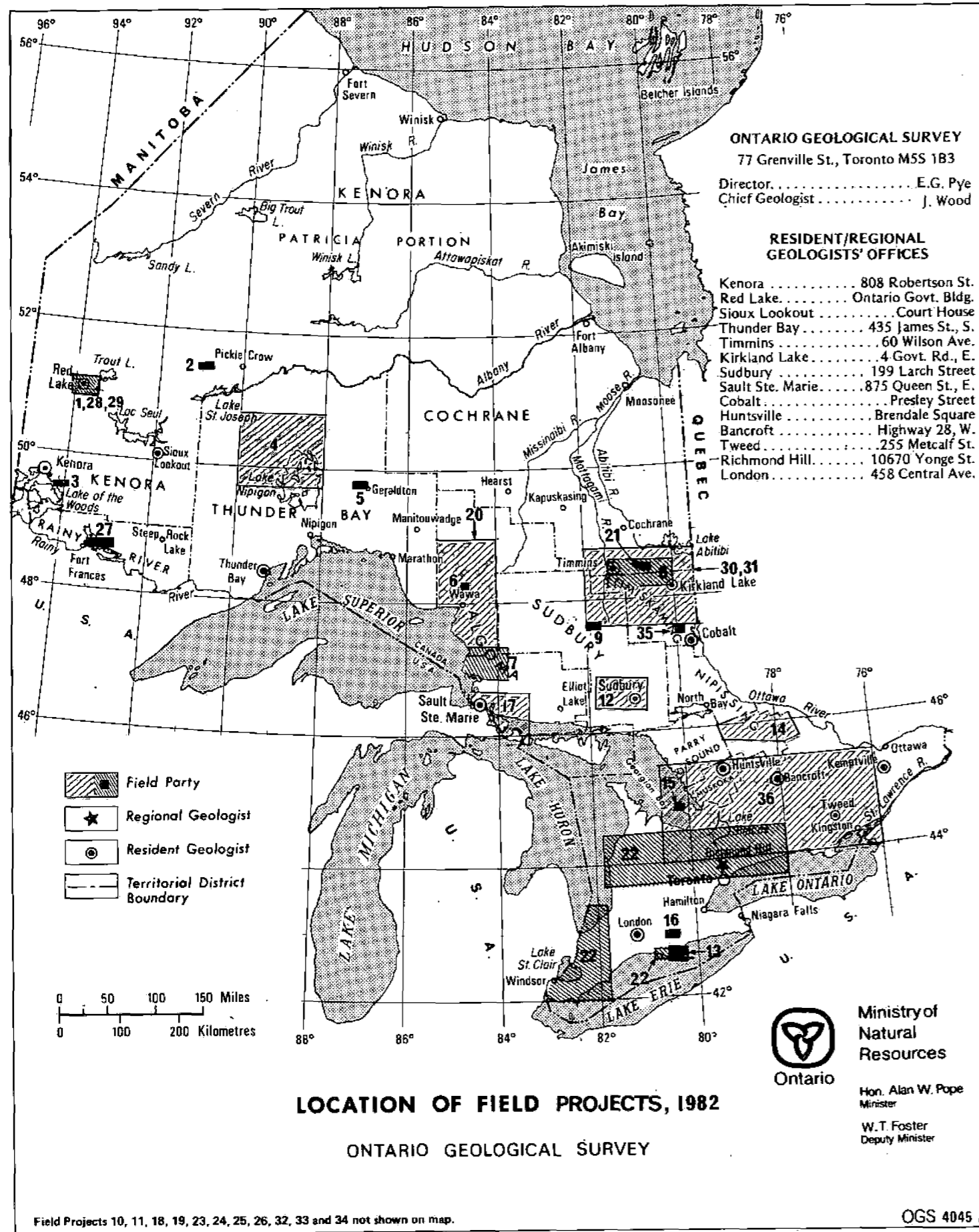
20. R. S. Geddes and A. Bajc will complete the Quaternary geology mapping of the Hemlo area (NTS 42D/9 and 42/C11) at a scale of 1:50,000.
21. P. F. Karrow will continue Quaternary geology mapping of the Brampton area (NTS 30M/12) at a scale of 1:50,000.
22. P. J. Barnett will complete mapping of the Quaternary geology of the Golden Lake and Pembroke areas (NTS 31F/11, 14) at a scale of 1:50,000.

Aggregate Inventory Studies

23. Steve Szoke and Staff of the Aggregate Assessment Office will continue the preparation of Aggregate Resources Inventory Papers. Field studies will be undertaken in six southwestern Ontario townships: Amabel, West Wawawosh, Hibbert, Wallace, Adelaide and Orford. Reports and maps at a scale of 1:50,000 will follow.

Geophysics/Geochemistry Section

24. J. A. C. Fortescue will carry out a multi-element Lake Sediment Survey of Michipicoten Island.
25. J. A. C. Fortescue will continue a Remote Sensing study in the Montreal River area.
26. R. B. Barlow and D. H. Pitcher will continue studies on the Night Hawk Geophysical Test Range.
27. V. K. Gupta will continue compiling and interpreting Gravity data acquired in the Kirkland Lake Area during the 1984 Field Season.



1982 Special Projects Involving the Ontario Geological Survey

The Ontario Geological Survey has been asked by other government agencies to organize and perform a series of geological, geophysical and geochemical surveys; mineral deposit studies; aggregate capability studies; terrain studies for engineering purposes; and data map preparation to improve data base for mineral exploration by the private sector. These projects are in addition to the regular on-going programs of the Survey.

The Supplementary geoscience programs for 1982 are:

KLIP (Kirkland Lake Initiatives Program) funded by the Ontario Ministry of Northern Affairs, and the Department of Regional and Economic Expansion, Canada.

NIMS (Northern Industrial Mineral Survey) funded by the Ontario Ministry of Northern Affairs.

NOGS (Northern Ontario Geological Survey) funded by the Ontario Ministry of Northern Affairs. Special attention is being given to the Atikokan, Ignace, Red Lake, Temagami, Cobalt-Gowganda-Sudbury and Manitoulin Island areas in this Program.

NORDA (Northern Ontario Rural Development Agreement) funded by the Ontario and Federal governments. Special attention is being given to the Wawa and Ignace areas.

SOGS (Southern Ontario Geological Survey) funded by the Ontario Ministry of Natural Resources and the Department of Regional and Economic Expansion, Canada.

LIST OF PROJECTS

Precambrian Geology Section

1. M.C. Jackson will commence detailed mapping in the Lumby Lake area at 1:15,840 scale (NORDA).
2. N.W.D. Massey will undertake detailed mapping in the Mishewawa Lake area at 1:15,840 scale (NORDA).
3. A.G. Choudhry will undertake detailed mapping in the Macaulay Lake Area at 1:15,840 scale (NOGS).
4. T.L. Muir will undertake a special study of the Onaping formation with a view to understanding the origin of the formation, and its relationship to other rock units of the Sudbury Irruptive and Basin (NOGS).
5. B.O. Dressler will continue a special study of the Footwall and country rock structures of the Sudbury Irruptive to identify possible structural controls of the sublayer and footwall mineralization (NOGS).
6. L. Pauk will continue detailed mapping in the Lavant area

in Frontenac and Lanark counties at 1:15,840 scale (SOGS).

7. F.W. Breaks will undertake detailed mapping in the Wicklow area, Hastings and Renfrew counties, at 1:15,840 scale (SOGS).
8. M.S. Bourque will continue a regional study of the stratigraphy and sedimentation of carbonate and associated clastic metasediments in the Grenville Province. Understanding of these metasediments will be of value in the search for metallic and non-metallic mineral deposits (SOGS).

Engineering & Terrain Geology Section

Quaternary Geology

9. J. Richard will complete mapping of the Kamiskotia Lake and Pamour areas (NTS 42A/12, 11) at a scale of 1:50,000 (NOGS).
10. P.F. Karrow will complete the mapping of the St. Joseph Island area at a scale of 1:50,000 (NOGS).
11. C.L. Baker will complete esker and till studies to complement previous mapping of Quaternary deposits in the Kirkland Lake area (KLIP).
12. J. Leyland will complete mapping of the Sydenham and Bath areas (NTS 31C/7, 2) at a scale of 1:50,000 (SOGS).
13. P. Finamore will complete mapping of the Bannockburn area (NTS 31C/12) at a scale of 1:50,000 (SOGS).

Paleozoic Geology

14. D. Williams will continue the mapping of the Paleozoic rocks in Southern Ontario which lie to the east of the Frontenac Axis (SOGS).

Geophysics/Geochemistry Section

15. J.A.C. Fortescue and D. Wadge will supervise a summer and a winter basal till survey and related geochemical research in the Kirkland Lake area, at a scale of 1:50,000 (KLIP).

Mineral Deposits Section

16. A study will commence on Uranium deposits in the Kirkland Lake Area (KLIP).
17. F.R. Ploeger (M.E. Cherry) will complete a study on gold mineralization associated with syenitic rocks in the Kirkland Lake Area (KLIP).
18. A study will commence of mineral occurrences in the southern part of the Grenville Province (SOGS).
19. The following regional NIMS projects will be initiated,
 - Horticultural Peat Study in the Sioux Lookout area
 - Silica Sand Study in the James Bay Lowlands.
 - Clay Study in the Thunder Bay area.

1982 Field Projects of the Ontario Geological Survey

Ontario Geological Survey geoscientists investigate and provide data on mineral resources. Our purpose is to facilitate and stimulate exploration and development, and to aid mineral resource evaluation and land use planning. Our investigations include studies of bedrock and surficial geology, metallic and industrial minerals, and energy sources (uranium, lignite, peat and oil from shale).

During 1982 the Ontario Geological Survey will continue its ongoing program of detailed and regional field work by carrying out 36 surveys. The summary of this field work is expected to be available during December, with the final maps and reports following as quickly as they can be prepared.

LIST OF PROJECTS

Precambrian Geology Section

1. H. Wallace will continue the synoptic mapping of the Red Lake Belt at a scale of 1:50,000.
2. G.M. Stott will commence detailed mapping of the Meen Lake Area at a scale of 1:15,840.
3. G.W. Johns will continue mapping in the Eastern Lake of the Woods, in the Long Bay Area at a scale of 1:15,840.
4. R.H. Sutcliffe will continue his investigation of the Nipigon Plate, at a scale of 1:50,000.
5. G.P. Beakhouse, will map the Grenville Lake Area at a scale of 1:15,840.
6. R.P. Sage will continue mapping in the Josephine Area at a scale of 1:15,840.
7. E.C. Grunsky will continue a 1:50,000 scale synoptic study of the Batachewan Belt.
8. N.F. Trowell will commence a 1:50,000 scale synoptic study of the Kamiskotia-Matheson Area.
9. G.M. Siragusa will complete mapping of the Pensyl Lake Area at a scale of 1:15,840.
10. P.E. Giblin will commence mapping Falconbridge and Garson Townships at a scale of 1:15,840.
11. J.M. Martins will map Blezard Township at a scale of 1:15,840.
12. B.O. Dressler will complete a 1:50,000 scale Compilation Map of the Sudbury Area.

Engineering & Terrain Geology Section

Quaternary Geology

13. P.J. Barnett will commence mapping and stratigraphic studies in the Port Burwell and Long Point areas (NTS 40I/10, 9) at a scale of 1:50,000.
14. Mapping of the Algonquin Provincial Park will continue at a scale of 1:50,000. M.J. Ford will map the Achray and Lac La Vieille areas (NTS 31F/13 and 16). R.S. Geddes will map the Kiosk and Burntroot areas (NTS 31L/2 and 31E/15).
15. W.D. Fitzgerald (Huronian District, MNR) will complete mapping of the Christian Island area (NTS 41A/16) at a scale of 1:50,000.
16. P.J. Barnett in co-operation with the Ontario Centre for Remote Sensing will evaluate remote sensing techniques for locating surface and near surface aggregate deposits to complement previous mapping in the Woodstock area (NTS 40P/2)

Paleozoic Geology

17. D.J. Russell will continue his studies of Paleozoic outliers throughout Northern Ontario and will concentrate his field efforts in the Sault Ste. Marie and St. Joseph Island areas.

18. M.D. Johnson will investigate outcrop areas of Ordovician and Devonian oil shales throughout Southern Ontario and will plan further subsurface investigation of these units.

Aggregate Inventory Studies

19. W.D. Scott and S. Szoke and staff of the Aggregate Assessment Office will continue their preparation of Aggregate Resources Inventory Papers and expect to complete field studies of twenty additional townships in Southern Ontario.

Geophysics/Geochemistry Section

20. J.A.C. Fortescue will supervise a study of lakes north and east of Lake Superior and the present and historical interaction of acid precipitation (Acid Rain) with various geological substrates.
21. R.B. Barlow will continue studies on the Night Hawk geophysical test range.
22. J.A.C. Fortescue will supervise the second phase of a regional stream sediment survey of Southern Ontario designed to provide a comprehensive data base for environmental and earth science investigation, at a scale of 1:50,000.

Mineral Deposits Section

23. M.A. Vos will continue industrial mineral studies in Ontario with emphasis on Alkaline Complexes and Building Stones.
24. A.J. Andrews and M.E. Cherry will continue comprehensive evaluation of the geology of Archean lode gold deposits.
25. M.E. Cherry will initiate a study of mineralization in granite and gneissic terrains.
26. S. Marmont (A.C. Colvine) will complete a study of gold-copper-molybdenum deposits related to Archean epizonal granitoid stocks.
27. K.H. Poulsen (A.C. Colvine) will complete the comprehensive study of the Geologic Setting of Mineralization in the Fort Francis - Mine Centre Area.
28. A.J. Andrews will initiate a study of alteration related to mineralization. The first phase will focus on gold deposits in the Red Lake Area.
29. M.E. Duröcher (A.C. Colvine) will continue a study of the geology and distribution of gold deposits in the Red Lake Area.
30. M.E. Cherry will evaluate the relationship between gold mineralization and granitoid intrusion in the Abitibi belt.
31. C.J. Hodgson (A.C. Colvine) will complete a study of the geological associations of gold deposits in the Abitibi belt.
32. D. Long (A.C. Colvine) will complete a study of the Lower and Middle Huronian of the Cobalt Embayment and initiate a study of the Gowganda Formation in the northern part of the Embayment. The study is designed to evaluate the sedimentological controls on placer gold deposits.
33. A.C. Colvine will continue Huronian metallogenetic study with emphasis on paleoplacer gold.
34. A.J. Andrews, D.F. Strong, and R. Kerrich will initiate a study of mineralization and alteration in the Cobalt area.
35. L. Owsiaci (A.C. Colvine) will continue the study of the geology and mineral deposits of the Lundy Township Area.
36. J.S. Springer and T.R. Carter will continue studies of metallic and industrial minerals in the Grenville Province. In addition, mines and deposits within the Province are visited as part of the Mineral Deposits Section activities.

Lands and Waters Group

Whitney Block, 6th Fl., 99 Wellesley St. W., Toronto M7A 1W3

| | PHONE | | PHONE |
|-------------------------------|----------|-----------------------------------|----------|
| Lands Acquisition Section | 965-2738 | Surveys & Mapping Branch | 965-6225 |
| Titles Section | 965-1319 | Geographic Referencing | 965-4538 |
| Mining Lands Section | 965-1380 | Ontario Basic Mapping | 965-1208 |
| Public Lands Section | 965-4507 | Ontario Centre for Remote Sensing | 965-8411 |
| Survey Records (Claim Maps) | 965-7058 | | |
| Land Use Co-Ordination Branch | 965-2899 | 880 Bay St., 3rd Floor, Toronto | |

| | | | |
|---|----------|---|----------|
| Natural Resources Library Whitney Block - 4th Floor | 965-6319 | Natural Resources Personnel Services Whitney Block - 4th Floor | 965-2707 |
| Mines Library 77 Grenville St., 8th Floor | 965-1352 | Publications & Aerial Photos Public Service Centre Whitney Block - Room 1640 99 Wellesley St. West Toronto, Ontario M7A 1W3 | 965-6512 |
| Communications Services Branch Whitney Block - 5th Floor | | | |
| General Inquiry | 965-2756 | | |
| Film Library | 965-2758 | | |

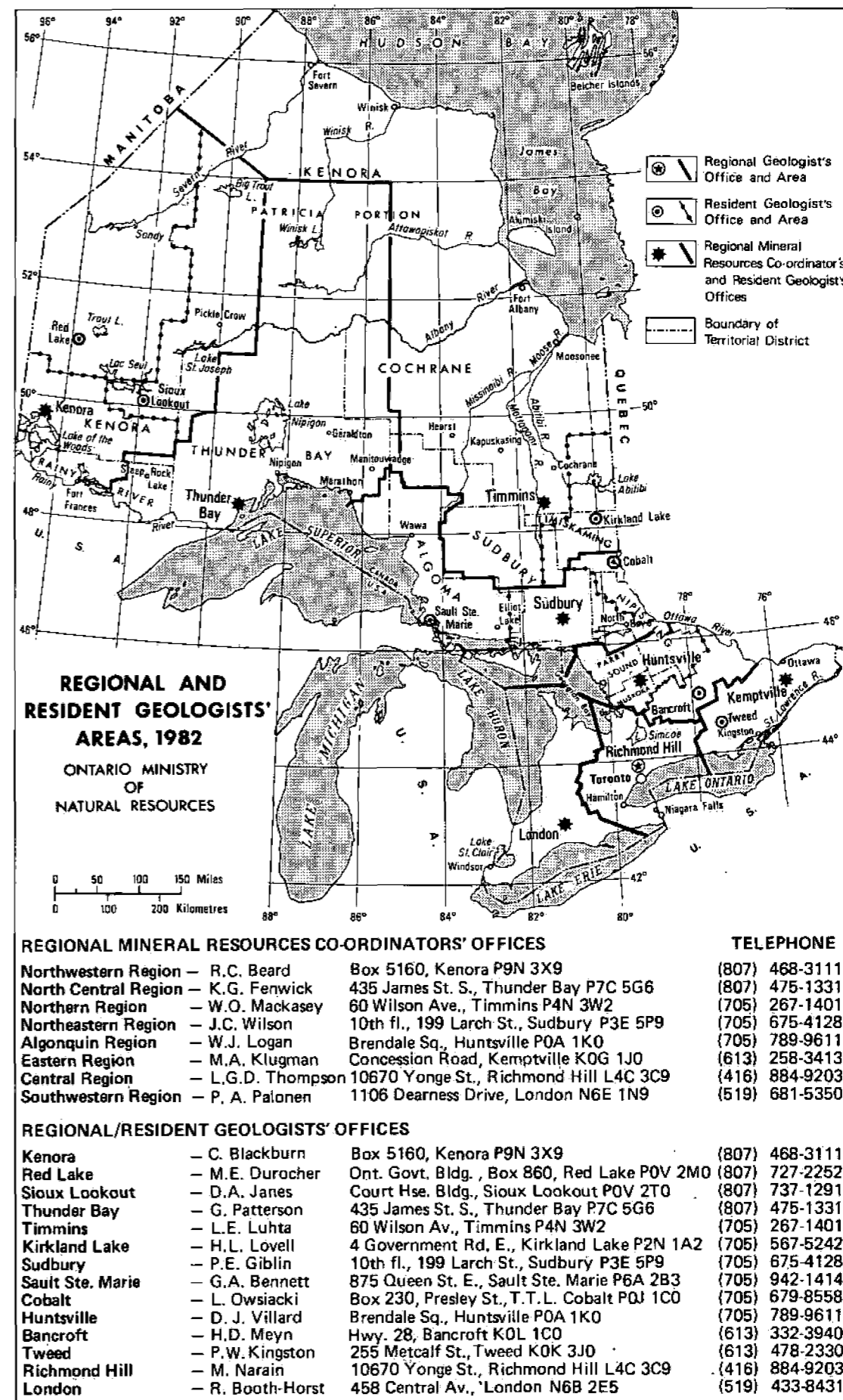
Petroleum Resources' Offices

| | |
|---|--|
| Petroleum Resources Section (519) 681-5350 1106 Dearness Drive London N6E 1N9 | Petroleum Resources Laboratory (519) 433-8431 458 Central Avenue London N6E 2B5 |
|---|--|

Mining Recorders' Offices

| | |
|---|---|
| Red Lake Division (807) 727-2250 P.O. Box 324, Ont. Gov't Bldg. Red Lake P0V 2M0 | Porcupine Division (705) 267-1401 60 Wilson Avenue Timmins P4N 2S7 |
| Kenora Division (807) 468-9841 808 Robertson Street Kenora P9N 3X9 | Sudbury Division (705) 675-4125 199 Larch Street, 10th Fl. Sudbury P3E 1G1 |
| Patricia Division (807) 737-2100 P.O. Box 669 Court House Sioux Lookout P0V 2T0 | Larder Lake Division (705) 567-9242 P.O. Box 984 4 Government Road East Kirkland Lake P2N 1A2 |
| Thunder Bay Division (807) 475-1311 435 James St. South P.O. Box 5000 Thunder Bay P7C 5G6 | Eastern Ontario Division (416) 965-1322 Whitney Block - Room 2548 Queen's Park Toronto M7A 1W3 |
| Sault Ste. Marie Division (705) 254-6884 P.O. Box 669 75 Elgin Street Sault Ste. Marie P6A 5N2 | |

FIELD OFFICES



MNR FIELD OFFICES

| | PHONE |
|---|----------------|
| NORTHWESTERN REGION | |
| Regional Director, Box 5160, 808 Robertson St., Kenora P9N 3X9 | (807) 468-3111 |
| District Managers' Offices | |
| KENORA, Box 5080, 808 Robertson Street P9N 3X9 | (807) 468-9841 |
| SIOUX LOOKOUT, Box 309 POV 2T0 | (807) 737-1140 |
| RED LAKE, Box 323 Highway 105 POV 2M0 | (807) 727-2531 |
| FORT FRANCES, 922 Scott Street P9A 1J4 | (807) 274-5337 |
| DRYDEN, Box 3000, Ontario Gov't Building P8N 3B3 | (807) 223-3341 |
| IGNACE, Box 448 POT 1T0 | (807) 934-2232 |
| NORTH CENTRAL REGION | |
| Regional Director, Box 5000, 435 James St.S., Thunder Bay P7C 5G6 | (807) 475-1261 |
| District Managers' Offices | |
| THUNDER BAY, Box 5000 P7C 5G6 | (807) 475-1501 |
| ATIKOKAN, 108 Saturn Avenue POT 1C0 | (807) 597-6971 |
| TERRACE BAY, Box 280 POT 2W0 | (807) 825-3205 |
| GERALDTON, Box 640 POT 1M0 | (807) 854-1030 |
| NIPICONG, Box 970 POT 2J0 | (807) 887-2120 |
| NORTHERN REGION | |
| Regional Director, Box 3000, 140 Fourth Avenue, Cochrane POL 1C0 | (705) 272-4287 |
| District Managers' Offices | |
| COCHRANE, Box 730, 2 Third Avenue POL 1C0 | (705) 272-4365 |
| CHAPLEAU, 34 Birch Street POM 1K0 | (705) 864-1710 |
| GOGAMA, Box 129 POM 1W0 | (705) 894-2000 |
| HEARST, 631 Front Street POL 1N0 | (705) 362-4346 |
| KAPUSKASING, 6 Government Road P5N 2W4 | (705) 335-6191 |
| KIRKLAND LAKE, Box 129 Swastika POK 1T0 | (705) 642-3222 |
| TIMMINS, 896 Riverside Drive P4N 3W2 | (705) 267-7951 |
| MOOSONEE, Box 190 POL 1Y0 | (705) 336-2987 |
| NORTHEASTERN REGION | |
| Regional Director, 199 Larch Street, Sudbury P3E 5P9 | (705) 675-4574 |
| District Managers' Offices | |
| SAULT STE. MARIE, Box 130, 69 Church St. P6A 5L5 | (705) 949-1231 |
| NORTH BAY, Box 3070 P1B 8K7 | (705) 474-5550 |
| WAWA, Box 1160 POS 1K0 | (705) 856-2396 |
| TEMAGAMI, Box 38 POH 2H0 | (705) 569-3622 |
| SUDBURY, Box 3500, Station A P3A 4S2 | (705) 522-7823 |
| BLIND RIVER, Box 190, 62 Queen Street POR 1B0 | (705) 356-2234 |
| ESPANOLA, Box 1340, 148 Fleming Street POP 1C0 | (705) 869-1330 |
| ALGONQUIN REGION | |
| Regional Director, Box 9000 Brendale Square, Huntsville POA 1K0 | (705) 789-9611 |
| District Managers' Offices | |
| PARRY SOUND, 4 Miller Street P2A 1S8 | (705) 746-2401 |
| ALGONQUIN PARK, Box 219, Whitney KOJ 2M0 | (705) 637-2780 |
| BRACEBRIDGE, Box 1138, POB 1C0 | (705) 645-5244 |
| LESLIE M. FROST CENTRE, Dorset POA 1E0 | (705) 766-2451 |
| BANCROFT, Box 500, KOL 1C0 | (613) 332-3940 |
| PEMBROKE, Box 220, Riverside Drive K8A 6X4 | (613) 732-3661 |
| MINDEN, KOM 2K0 | (705) 286-1521 |
| EASTERN REGION | |
| Regional Director, Concession Road, Kemptville KOG 1J0 | (613) 258-3413 |
| District Managers' Offices | |
| TWEED, Metcalfe Street KOK 3J0 | (613) 478-2330 |
| CARLETON PLACE, 10 Findlay Avenue K7C 3Z6 | (613) 257-5735 |
| NAPANEE, 1 Richmond Blvd. K7R 3S3 | (613) 354-2173 |
| BROCKVILLE, 101 Water Street West K6V 5Y8 | (613) 342-8524 |
| CORNWALL, Box 1749, 113 Amelia Street K6H 5V7 | (613) 933-1774 |
| CENTRAL REGION | |
| Regional Director, 10670 Yonge Street, Richmond Hill L4C 3C9 | (416) 884-9203 |
| District Managers' Offices | |
| MAPLE, LOJ 1E0 | (416) 832-2761 |
| HURONIA DISTRICT, Midhurst LOL 1X0 | (705) 728-2900 |
| NIAGARA DISTRICT, Box 1070, Highway #20, Fonthill LOS 1E0 | (416) 892-2656 |
| LINDSAY, 322 Kent Street West K9V 4T7 | (705) 324-6121 |
| CAMBRIDGE, Box 2186 N3C 2W1 | (519) 658-9355 |
| SOUTHWESTERN REGION | |
| Regional Director, 1106 Dearness Drive, London N6E 1N9 | (519) 681-5350 |
| District Managers' Offices | |
| CHATHAM, Box 1168, 435 Grand Avenue West N7M 5L8 | (519) 354-7340 |
| OWEN SOUND, 611 Ninth Avenue East N4K 3E4 | (519) 376-3860 |
| AYLMER, 353 Talbot Street West N5H 2S8 | (519) 773-9241 |
| SIMCOE, 645 Norfolk Street North N3Y 3R2 | (519) 426-7650 |
| WINGHAM, R.R.#5 NOG 2W0 | (519) 357-3131 |

you can call on us!

MINERAL RESOURCES GROUP

Executive Co-ordinator
G.A. Jewett Whitney Block, 99 Wellesley St.W., Toronto M7A 1W3 965-4271

Ontario Geological Survey
77 Grenville St., Toronto M5S 1B3

| PHONE | PHONE |
|---|--------------------------------------|
| Directors Office | Engineering & Terrain |
| Director, Dr. E.G. Pye 965-1283 | Geology Section |
| Geoscience Research Grant Fund 965-1546 | Chief, Dr. O.L. White 965-1182 |
| Exploration Technology | Paleozoic Sub.Section 965-1182 |
| Development Fund 965-1546 | Quaternary Sub.Section 965-1182 |
| | Aggregate Assessment Office 965-1663 |
| Precambrian Geology Section | Geoservices Section |
| Chief, J. Wood 965-1321 | Chief, Dr. A.E. Pitts 965-5601 |
| Central Archean Sub.Section 965-1827 | Assessment Files Research |
| Northern Archean Sub.Section 965-1827 | Office (AFRO) 965-6139 |
| Southern Archean Sub.Section 965-4817 | Geoscience Data Centre 965-4641 |
| Proterozoic Sub.Section 965-2326 | Information Office 965-0190 |
| Mineral Deposits Section | Mines Library 965-1352 |
| Chief, Dr. A.C. Colvine 965-4261 | Geoscience Laboratories 965-1337 |
| Geophysics/Geochemistry Section | Scientific Review Office 965-4534 |
| Chief, R.B. Barlow 965-1697 | Summer Employment 965-4245 |

Mineral Resources Branch

Whitney Block, 99 Wellesley St.W., 4th Flr., Toronto M7A 1W3

| PHONE | PHONE |
|--------------------------------------|------------------------------------|
| Directors Office | Industrial Minerals Section |
| Director, Dr. T.P. Mohide 965-1559 | Chief, S.E. Yundt 965-3127 |
| Metallic Minerals Section | Mineral Statistics Section |
| Chief, Dr. G. Anders 965-1311 | Chief, G. Weatherson 965-1016 |
| GOMILL Program | |
| Administrator, B. Fenoulhet 965-1311 | |

Mining Taxation and Ontario Mineral Exploration Program Office

Whitney Block, 99 Wellesley St.W., 4th Flr., Toronto M7A 1W3

| PHONE | PHONE |
|-------------------------------------|---------------------------|
| Director & Mine Assessor | OMEP Administrator |
| K.S. Rachamalla 965-1062 | F.W. Pooley 965-1062 |



Ministry of
Natural
Resources

Hon. Alan W. Pope
Minister
W. T. Foster
Deputy Minister

Revised May 3, 1982

NORTHERN ONTARIO ENGINEERING GEOLOGY TERRAIN STUDY (NOEGTS)

LIST OF STUDIES (INCLUDING MAPS) PUBLISHED

| Study No. | Area | NTS No. | Accompanying Map Nos. | Type(s) of Map(s) |
|------------|---------------------|------------------------------------|-----------------------|--|
| NOEGTS 7 | Whitewater Lake | 52I/NW | 5117 | Data Base Map |
| NOEGTS 8 | Mojikit Lake | 52I/NE | 5118 | Data Base Map |
| NOEGTS 9 | Ogoki Lake | 42L/NW | 5122 | Data Base Map |
| NOEGTS 10 | Percy Lake | 42L/NE | 5123 | Data Base Map |
| NOEGTS 16 | Armstrong | 52I/SW | 5119 | Data Base Map |
| | | | 5121 | Sand and Gravel Resources Map |
| NOEGTS 17 | Windigo Bay | 52I/SE | 5120 | Data Base Map |
| NOEGTS 18 | Onaman Lake | 42L/SW | 5124 | Data Base Map |
| NOEGTS 19 | Nakina | 42L/SE | 5125 | Data Base Map |
| | | | 5126 | Mineral Exploration Capability Map |
| NOEGTS 20 | Rat Portage Bay | 52E/NE | 5055 | Data Base Map |
| | | | 5057 | Sand and Gravel Resources Map |
| NOEGTS 21 | Blue Lake | 52F/NW | 5068 | Data Base Map |
| NOEGTS 22 | Webigoon Lake | 52F/NE | 5059 | Data Base Map |
| NOEGTS 23 | Press Lake | 52G/NW | 5062 | Data Base Map |
| | | | 5066 | Sand and Gravel Resources Map |
| NOEGTS 24 | Metionga Lake | 52G/NE | 5063 | Data Base Map |
| NOEGTS 25 | Gull River | 52H/NW | 5049 | Data Base Map |
| | | | 5053 | Groundwater Development Capability Map |
| | | | 5054 | Solid Waste Disposal Capability Map |
| NOEGTS 26 | Mount Royal | 52H/NE | 5050 | Data Base Map |
| NOEGTS 27 | Jellicoe | 42E/NW | 5077 | Data Base Map |
| NOEGTS 28 | Longlac | 42E/NE | 5078 | Data Base Map |
| | | | 5081 | Sand and Gravel Potential Map |
| NOEGTS 29 | Taradale | 42F/NW | 5082 | Data Base Map |
| NOEGTS 30 | Calstock | 42F/NE | 5083 | Data Base Map |
| | | | 5086 | General Construction Capability Map |
| NOEGTS 36 | Northwest Angle | 52E/SE | 5056 | Data Base Map |
| NOEGTS 37 | Rowan Lake | 52F/SW | 5060 | Data Base Map |
| NOEGTS 38 | Gold Rock | 52F/SE | 5061 | Data Base Map |
| NOEGTS 39 | Gulliver River | 52G/SW | 5064 | Data Base Map |
| | | | 5067 | General Construction Capability Map |
| NOEGTS 40 | Pakashan Lake | 52G/SE | 5065 | Data Base Map |
| NOEGTS 41 | Heaven Lake | 52H/SW | 5051 | Data Base Map |
| NOEGTS 42 | Frazer Lake | 52H/SE | 5052 | Data Base Map |
| NOEGTS 43 | Roslyn Lake | 42E/SW | 5079 | Data Base Map |
| NOEGTS 44 | Steel Lake | 42E/SE | 5080 | Data Base Map |
| NOEGTS 45 | Obakamiga Lake | 42F/SW | 5084 | Data Base Map |
| NOEGTS 46 | Hornpayne | 42F/SE | 5085 | Data Base Map |
| NOEGTS 52 | Stratton | 52D/NE | 5068 | Data Base Map |
| NOEGTS 53 | Rainy Lake | 52C/NW | 5069 | Data Base Map |
| NOEGTS 54 | Seine River | 52C/NE | 5070 | Data Base Map |
| | | | 5072 | Sand and Gravel Resources Map |
| NOEGTS 55 | Marmion Lake | 52B/NW | 5073 | Data Base Map |
| | | | 5104 | General Construction Capability Map |
| NOEGTS 56 | Lac des Mille Lacs | 52B/NE | 5074 | Data Base Map |
| NOEGTS 57 | Kaministikwia | 52A/NW | 5045 | Data Base Map |
| NOEGTS 58 | Black Bay | 52A/NE and 52A/SE | 5046 | Data Base Map |
| NOEGTS 59 | Schreiber | 42D/NW | 5092 | Data Base Map |
| NOEGTS 60 | Heron Bay | 42D/NE | 5093 | Data Base Map |
| NOEGTS 61 | White River | 42C/NW | 5094 | Data Base Map |
| | | | 5098 | Septic Systems Capability Map |
| NOEGTS 62 | Kabinakagami Lake | 42C/NE | 5095 | Data Base Map |
| NOEGTS 64 | Elsas | 42B/NE | 5100 | Data Base Map |
| NOEGTS 68 | Sand Point Lake | 52C/SE | 5071 | Data Base Map |
| NOEGTS 69 | Agnes Lake | 52B/SW | 5075 | Data Base Map |
| NOEGTS 70 | Northern Light Lake | 52B/SE | 5076 | Data Base Map |
| NOEGTS 71 | Thunder Bay | 52A/SW | 5047 | Data Base Map |
| | | | 5048 | Light Construction Capability Map |
| NOEGTS 72 | Pukaskwa River | 42C/SW and 42D/SE and 41N/NW | 5096 | Data Base Map |
| NOEGTS 73 | Goudreau | 52C/NE | 5097 | Data Base Map |
| NOEGTS 74 | Missinaibi Lake | 42B/SW | 5101 | Data Base Map |
| NOEGTS 75 | Folyet | 42B/SE | 5102 | Data Base Map |
| NOEGTS 79 | Michipicoten | 41N/NE | 5010 | Data Base Map |
| NOEGTS 80 | Chapleau | 41O/NW | 5014 | Data Base Map |
| | | | 5018 | Engineering Capability Map |
| NOEGTS 81 | Ridout | 41O/NE | 5015 | Data Base Map |
| NOEGTS 82 | Gogama | 41P/NW | 5019 | Data Base Map |
| NOEGTS 83 | Elk Lake | 41P/NE | 5020 | Data Base Map |
| NOEGTS 84 | New Liskeard | 31M/NW | 5021 | Data Base Map |
| | | | 5025 | Sand and Gravel Resources Map |
| NOEGTS 85 | Batchawana | 41N/SE | 5011 | Data Base Map |
| NOEGTS 86 | Wenebagon Lake | 41O/SW | 5016 | Data Base Map |
| NOEGTS 87 | Biscotesing | 41O/SE | 5017 | Data Base Map |
| NOEGTS 88 | Westree | 41P/SW | 5022 | Data Base Map |
| NOEGTS 89 | Maple Mountain | 41P/SE | 5023 | Data Base Map |
| NOEGTS 90 | Haileybury | 31M/SW | 5024 | Data Base Map |
| NOEGTS 91 | Sault Ste. Marie | 41K/NE | 5012 | Data Base Map |
| | | | 5013 | General Construction Capability Map |
| NOEGTS 92 | Wakomata Lake | 41J/NW | 5005 | Data Base Map |
| NOEGTS 93 | Bark Lake | 41J/NE | 5006 | Data Base Map |
| NOEGTS 94 | Cartier | 41I/NW | 5000 | Data Base Map |
| | | | 5004 | General Construction Capability Map |
| NOEGTS 95 | Capreol | 41I/NE | 5001 | Data Base Map |
| NOEGTS 96 | Tomiko | 31L/NW | 5040 | Data Base Map |
| NOEGTS 97 | Thessalon | 41J/SW | 5007 | Data Base Map |
| | | | 5009 | Sand and Gravel Resources Map |
| NOEGTS 98 | Blind River | 41J/SE | 5008 | Data Base Map |
| NOEGTS 99 | Espanola | 41I/SW | 5002 | Data Base Map |
| NOEGTS 100 | Sudbury | 41I/SE | 5003 | Data Base Map |
| NOEGTS 101 | North Bay | 31L/SW | 5041 | Data Base Map |
| | | | 5044 | Septic Systems Capability Map |
| NOEGTS 102 | Mattawa | 31L/SE | 5042 | Data Base Map |
| NOEGTS 103 | Deep River | 31K/SW | 5043 | Data Base Map |

NORTHERN ONTARIO ENGINEERING GEOLOGY TERRAIN STUDY (NOEGTS)

LIST OF NOEGTS MAPS PUBLISHED (Reports not yet available)

| Map No. | Area | NTS No. | Type of Map |
|---------|----------------|---------|-------------------------------|
| 5026 | Pamour | 42A/NW | Data Base Map |
| 5027 | Iroquois Falls | 42A/NE | Data Base Map |
| 5028 | Abitibi | 32D/NW | Data Base Map |
| 5029 | Timmins | 42A/SW | Data Base Map |
| 5030 | Kirkland Lake | 42A/SE | Data Base Map |
| 5031 | Larder Lake | 32D/SW | Data Base Map |
| 5032 | Kirkland Lake | 42A/SE | Sand and Gravel Resources Map |
| 5033 | Island Falls | 42H/NW | Data Base Map |
| 5034 | Montreuil Lake | 42H/NE | Data Base Map |
| 5035 | Chabbie Lake | 32E/NW | Data Base Map |
| 5036 | Smooth Rock | 42H/SW | Data Base Map |
| 5037 | Little Abitibi | 43H/SE | Data Base Map |
| 5038 | Patten River | 32E/SW | Data Base Map |
| 5039 | Little Abitibi | 42H/SE | Exploration Capability Map |

SOUTHERN ONTARIO ENGINEERING GEOLOGY TERRAIN STUDY (SOEGTS)

OPEN FILE REPORTS

The following maps pertaining to the Southern Ontario Engineering Geology Terrain Study have been released as Open File Reports. These reports can be examined in the Mines Library, Ontario Ministry of Natural Resources, 8th Floor, 77 Grenville Street, Toronto, or at the office of the Regional and Resident Geologist in whose district the area covered by the report is located.

Open File Reports are also available for purchase through Paragon Industrial Photographic Reproduction Limited, 1180 Ellesmere Road, Scarborough, Ontario, M1P 2X4; Telephone (416) 291-2542. Purchasers are requested to make their own photocopying arrangements with Paragon.

| | |
|----------|--|
| OFR 5317 | <i>Southern Ontario Engineering Geology Terrain Study, Bancroft Area: Data Base Map and General Construction Capability Map; Haliburton Area: Data Base Map and Sand and Gravel Resources Map.</i> |
| OFR 5318 | <i>Southern Ontario Engineering Geology Terrain Study, Byng Inlet Area: Data Base Map.</i> |
| OFR 5319 | <i>Southern Ontario Engineering Geology Terrain Study, Sundridge Area: Data Base Map.</i> |
| OFR 5320 | <i>Southern Ontario Engineering Geology Terrain Study, Algonquin Area: Data Base Map.</i> |
| OFR 5321 | <i>Southern Ontario Engineering Geology Terrain Study, Golden Lake Area: Data Base Map.</i> |
| OFR 5322 | <i>Southern Ontario Engineering Geology Terrain Study, Parry Sound Area: Data Base Map.</i> |
| OFR 5323 | <i>Southern Ontario Engineering Geology Terrain Study, Muskoka Area: Data Base Map.</i> |

USERS' MANUAL

Gartner, John F., Mollard, J.D., and Roed, M.A.

1981: Ontario Engineering Geology Terrain Study Users' Manual; Ontario Geological Survey, Northern Ontario Engineering Geology Terrain Study 1, 51p.

This publication is a companion volume to the individual Northern Ontario Engineering Geology Terrain Studies. The Users' Manual explains the methods and techniques used in developing the individual maps and reports and shows how the information in these maps and reports may be further assessed by individual users. For example, the manual explains the significance of each element of the descriptive symbol of a terrain map unit and then explains how each map can be assessed by users, such as a planner looking for a site for a planning development, an engineer planning a new road route, or a contractor looking for a good deposit of sand and gravels.

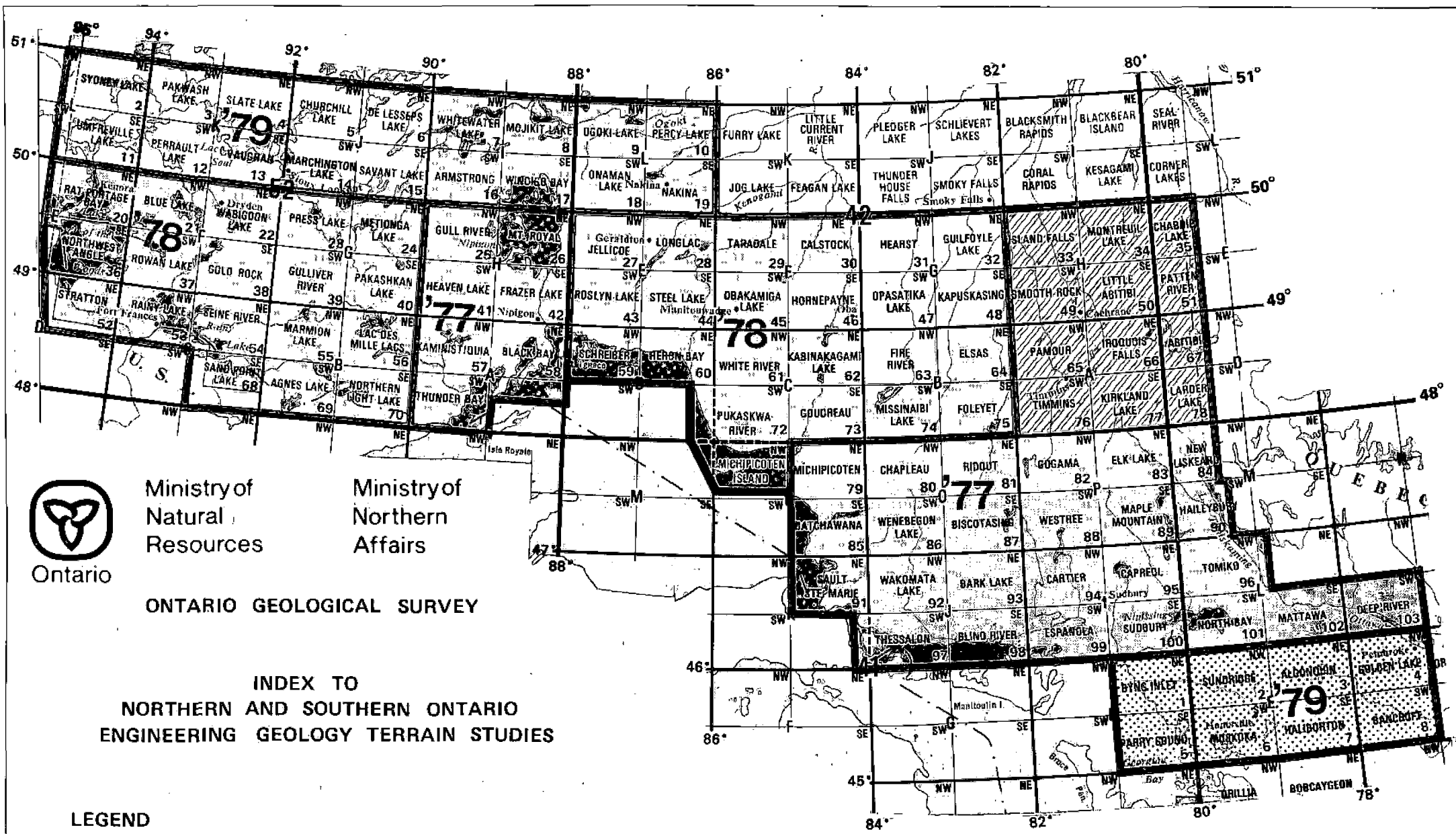
The Users' Manual is available for purchase from the Map Unit, Public Service Centre.

PRICE AND AVAILABILITY OF MAPS AND STUDIES

All NOEGTS Maps are \$1.00 each, plus 7% Provincial Sales Tax (for Ontario residents only). All Studies (including maps) are \$1.50 each.

Purchases are made through the Map Unit, Public Service Centre. Send Cheque, Money Order, or Postal Note made payable to the Treasurer of Ontario to:

Map Unit, Public Service Centre
Ontario Ministry of Natural Resources
Whitney Block, Queen's Park
Toronto, Ontario M7A 1W3



Ministry of
Natural
Resources

Ministry of
Northern
Affairs

ONTARIO GEOLOGICAL SURVEY

INDEX TO
NORTHERN AND SOUTHERN ONTARIO
ENGINEERING GEOLOGY TERRAIN STUDIES

LEGEND

'77 Year mapping completed

ELSA Study number and area

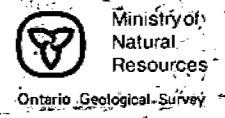
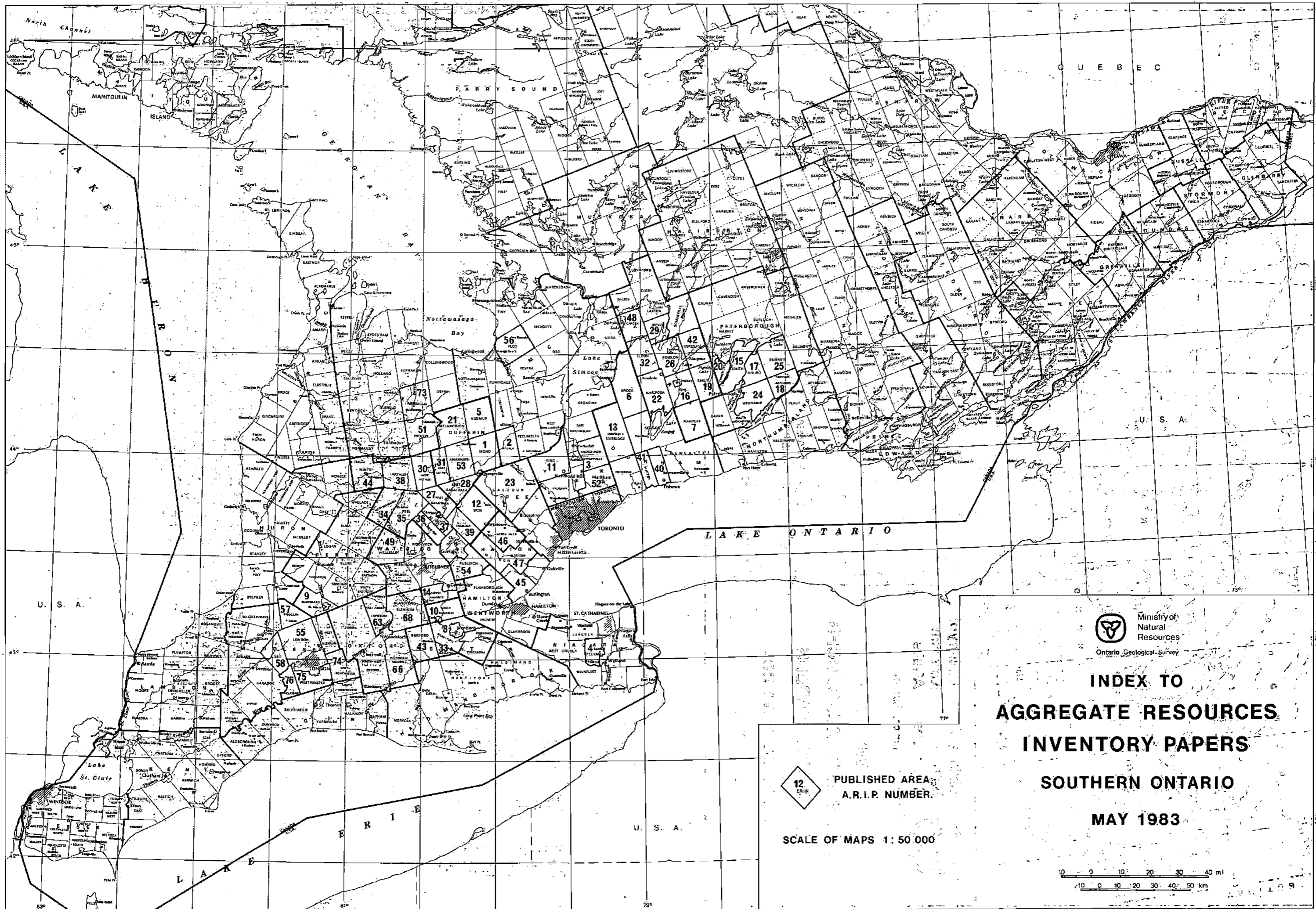
Areas for which Studies (including maps) have been published

Areas for which maps only have been published


Areas for which maps only have been released as Open File Reports.

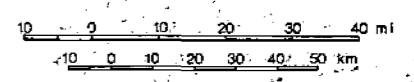
ALL MAPS ARE AT A SCALE OF 1:100,000
SEE REVERSE FOR DETAILS OF PUBLISHED
MAPS AND REPORTS

For areas north of 46° N Latitude, the project was funded by the Ontario Ministry of Northern Affairs. For areas south of 46° N Latitude, funding was provided by the Ontario Ministry of Natural Resources. Both projects were managed by the Ontario Ministry of Natural Resources.



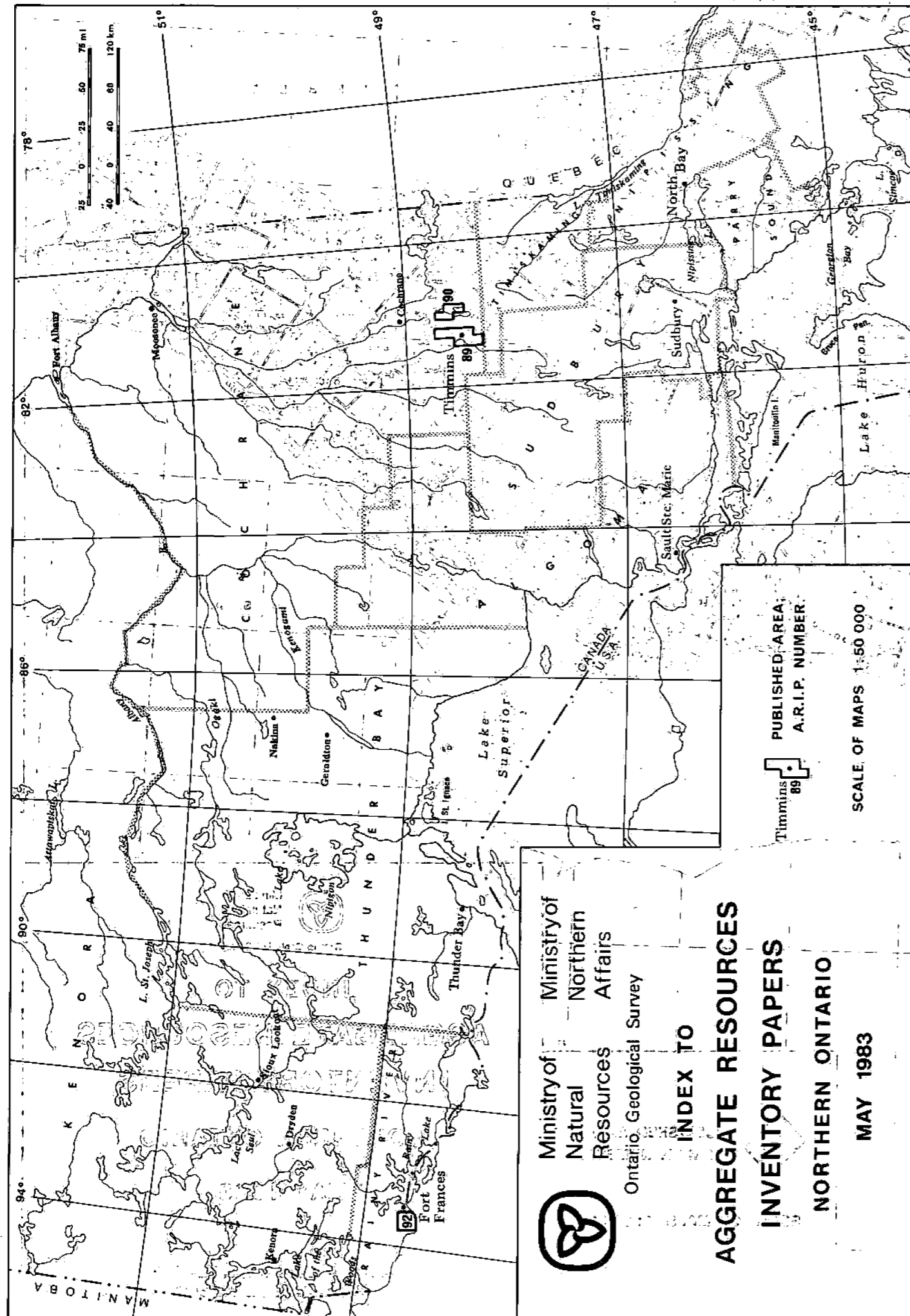
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 Ontario Geological Survey
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 INVENTORY PAPERS
 SOUTHERN ONTARIO
 MAY 1983**


12
 ERIN
 PUBLISHED AREA
 A.R.I.P. NUMBER.
 SCALE OF MAPS 1:50 000



AGGREGATE RESOURCES INVENTORY PAPERS PUBLISHED FOR ONTARIO

May 1983



Ministry of
Natural
Resources
Ontario, Geological Survey



INDEX TO AGGREGATE RESOURCES INVENTORY PAPERS NORTHERN ONTARIO MAY 1983

Timmins 89
PUBLISHED AREA
A.R.I.P. NUMBER
SCALE OF MAPS 1:50 000

| A.R.I.P. No. | Area | County or Regional Municipality |
|--------------|-------------------------------------|---------------------------------|
| 1 | Mono Township | Dufferin County |
| 2 | Adjala Township | Simcoe County |
| 3 | Town of Whitchurch-Stouffville | Reg. Mun. of York |
| 4 | Town of Pelham | Reg. Mun. of Niagara |
| 5 | Mulmur Township | Dufferin County |
| 6 | Township of Brock | Reg. Mun. of Durham |
| 7 | Manvers Township | Victoria County |
| 8 | Brantford Township | Brant County |
| 9 | Blanshard Township | Perth County |
| 10 | South Dumfries Township | Brant County |
| 11 | Township of King | Reg. Mun. of York |
| 12 | Erin Township | Wellington County |
| 13 | Township of Uxbridge | Reg. Mun. of Durham |
| 14 | Township of North Dumfries | Reg. Mun. of Waterloo |
| 15 | Smith Township | Peterborough County |
| 16 | Ops Township | Victoria County |
| 17 | Douro Township | Peterborough County |
| 18 | Asphodel Township | Peterborough County |
| 19 | Emily Township | Victoria County |
| 20 | Ennismore Township | Peterborough County |
| 21 | Melancthon Township | Dufferin County |
| 22 | Mariposa Township | Victoria County |
| 23 | Town of Calédon | Reg. Mun. of Peel |
| 24 | Otonabee Township | Peterborough County |
| 25 | Dummer Township | Peterborough County |
| 26 | Fenelon Township | Victoria County |
| 27 | West Garafraxa Township | Wellington County |
| 28 | East Garafraxa Township | Dufferin County |
| 29 | Bexley Township | Victoria County |
| 30 | West Luther Township | Wellington County |
| 31 | East Luther Township | Dufferin County |
| 32 | Eldon Township | Victoria County |
| 33 | Oakland Township | Brant County |
| 34 | Maryborough Township | Wellington County |
| 35 | Peel Township | Wellington County |
| 36 | Pilkington Township | Wellington County |
| 37 | Nichol Township | Wellington County |
| 38 | Arthur Township | Wellington County |
| 39 | Eramosa Township | Wellington County |
| 40 | City of Oshawa | Reg. Mun. of Durham |
| 41 | Town of Whitby | Reg. Mun. of Durham |
| 42 | Verulam Township | Victoria County |
| 43 | Burford Township | Brant County |
| 44 | Minto Township | Wellington County |
| 45 | City of Burlington | Reg. Mun. of Halton |
| 46 | Town of Halton Hills | Reg. Mun. of Halton |
| 47 | Town of Milton | Reg. Mun. of Halton |
| 48 | Carden Township | Victoria County |
| 49 | Township of Wellesley | Reg. Mun. of Waterloo |
| 51 | Proton Township | Grey County |
| 52 | Town of Markham | Reg. Mun. of York |
| 53 | Amaranth Township | Dufferin County |
| 54 | Puslinch Township | Wellington County |
| 55 | London Township | Middlesex County |
| 56 | Flos Township | Simcoe County |
| 57 | Biddulph Township | Middlesex County |
| 58 | Loke Township | Middlesex County |
| 63 | Township of East Zorra-Tavistock | Oxford County |
| 66 | Township of Norwich | Oxford County |
| 68 | Township of Blandford-Blenheim | Oxford County |
| 73 | Artemesia Township | Grey County |
| 74 | North Dorchester Township | Middlesex County |
| 75 | Westminster Township | Middlesex County |
| 76 | Delaware Township | Middlesex County |
| 89 | Central Part of the City of Timmins | Cochrane District |
| 90 | Eastern Part of the City of Timmins | Cochrane District |
| 92 | Fort Frances Area | Rainy River District |

PURPOSE AND CONTENT OF PAPERS

Aggregate Resources Inventory Papers are being prepared for municipalities designated under The Pits and Quarries Control Act, 1971. The purpose of the papers is to provide the geological information and assessment of aggregate resources to assist in the preparation of planning strategies and official plans.

The papers include an assessment of sand, gravel and crushed stone. Procedures used for the preparation and presentation of data are outlined in the report.

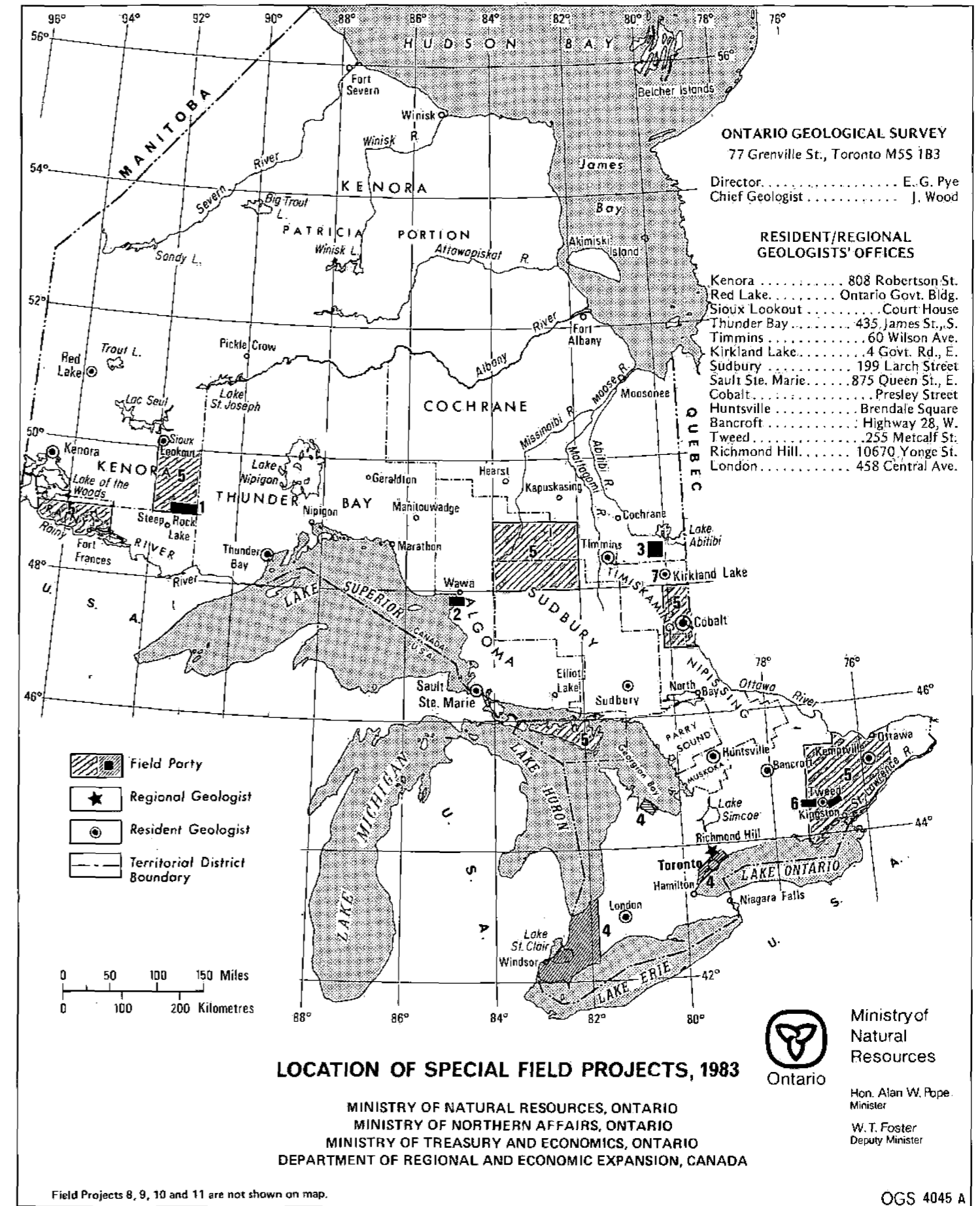
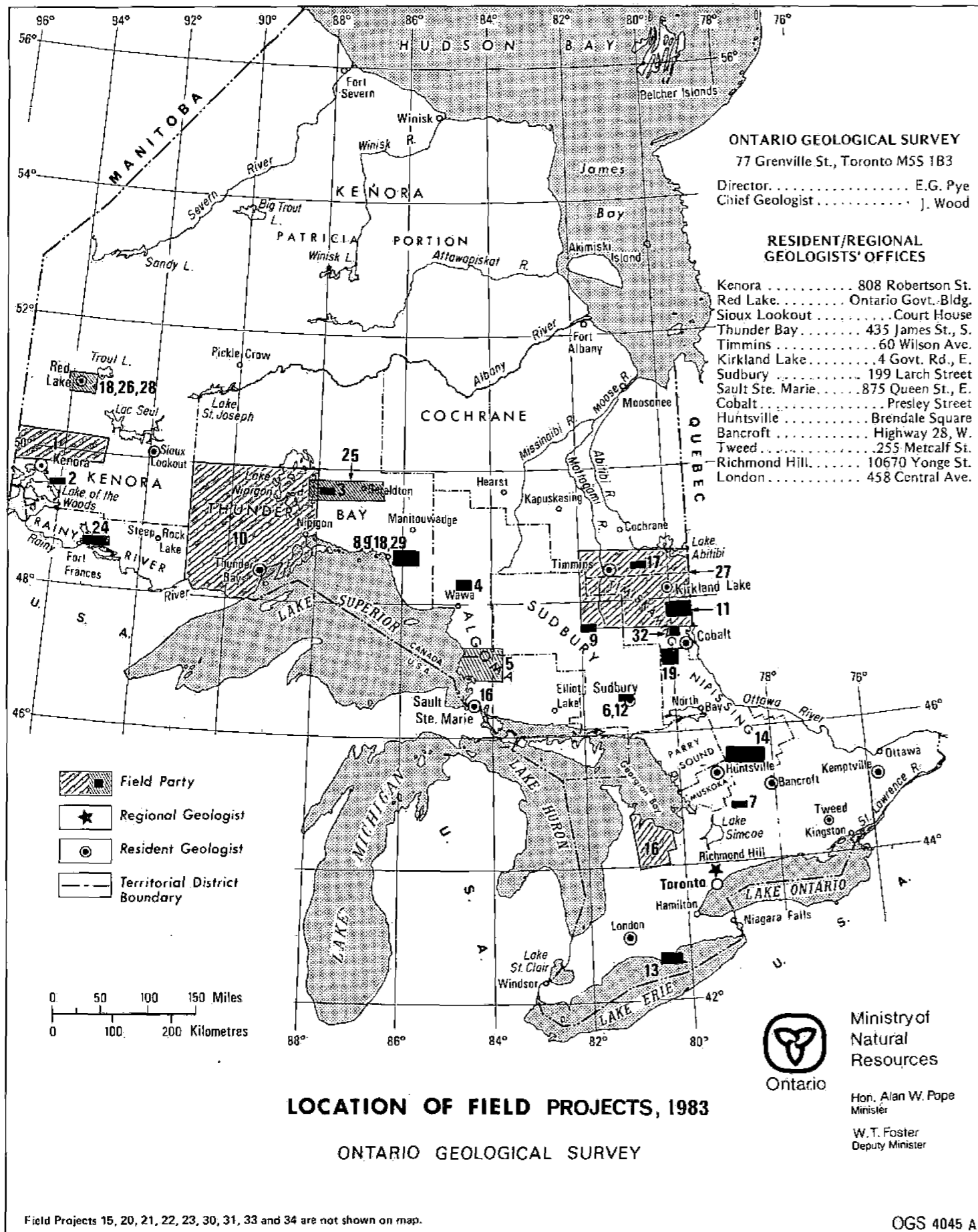
Three maps accompany each paper: Map 1 - Distribution of Sand and Gravel Deposits; Map 2 - Selected Sand and Gravel Resource Areas; Map 3 - Bedrock Resources.

PRICE AND AVAILABILITY OF PAPERS (Maps are included)

All A.R.I.P. Publications are priced at \$2.00 each.

Purchases can be made through the Map Unit, Public Service Centre. Send cheque, money order, or postal note, made payable to the *Treasurer of Ontario*, to:

Map Unit, Public Service Centre
Ontario Ministry of Natural Resources
Whitney Block, Queen's Park
Toronto, Ontario M7A 1W3



1983 Special Projects Involving the Ontario Geological Survey

The Ontario Geological Survey has been asked by other government agencies to organize and perform a series of geological, geophysical and geochemical surveys; mineral deposit studies, aggregate assessment studies, terrain studies for engineering purposes, and data map preparation to improve data base for mineral exploration by the private sector. These projects are in addition to the regular on-going programs of the Survey.

The Supplementary geoscience programs for 1983 are:

BRIM (Operation Black River-Matheson) funded equally by the Ontario Ministry of Northern Affairs and the Ontario Ministry of Natural Resources.

HERP (Hydrocarbon Energy Resources Program) funded by the Ontario Ministry of Treasury and Economics under the Board of Industrial Leadership and Development (BILD) Program.

KLIP (Kirkland Lake Initiatives Program) funded by the Ontario Ministry of Northern Affairs, and the Department of Regional and Economic Expansion, Canada.

MNA (Ministry of Northern Affairs) Regional Priority Program funded by the Ontario Ministry of Northern Affairs.

NORDA (Northern Ontario Rural Development Agreement) funded by the Ontario and Federal governments.

SOGS (Southern Ontario Geological Survey) funded by the Ontario Ministry of Natural Resources and the Department of Regional and Economic Expansion, Canada.

LIST OF PROJECTS

Precambrian Geology Section

1. M.C. Jackson will continue mapping in Lumby Lake area at a scale of 1:15,840 (NORDA).

2. N. Massey will continue mapping in the Mishewawa Lake area at a scale of 1:15,840 (NORDA).
3. N. Trowell will continue mapping in the Black River-Matheson area at a scale of 1:15,840 (BRIM).

Engineering & Terrain Geology Section

4. M.D. Johnson will continue studies of Ordovician and Devonian oil shales throughout Southern Ontario (HERP).
5. J. Riley will continue assessment of the peat resources in Ontario. Specific areas to be inventoried at a scale of 1:250,000 are the Fort Frances, Ignace, Manitoulin Island, Englehardt, Folyet and the Ottawa - St. Lawrence Lowlands area (HERP).

Geophysics/Geochemistry Section

6. R.B. Barlow will supervise the continued development of a commercial aeromagnetic gradiometer; a test-flying survey will be conducted (SOGS).

Mineral Deposits Section

7. F. Van Soeren will complete a study of mineral deposits in the Kirkland Lake area (KLIP).
8. E.P. Dillon and P.S. Barron will complete a study of mineral occurrences in the southern part of the Grenville Province (SOGS).
9. An examination of the geological setting of the gold deposits in the Lake of the Woods area will be started (NORDA).
10. A comprehensive examination of the geological setting of the mineral deposits in the Beardmore-Geraldton area will be started; the emphasis will be on gold (NORDA).
11. An evaluation of the gold potential of the Lower Huronian sequence in the Sault Ste. Marie - Blind River area will be conducted (MNA).

1983 Field Projects of the Ontario Geological Survey

Ontario Geological Survey geoscientists investigate and provide data on mineral resources. Our purpose is to facilitate and stimulate exploration and development, and to aid mineral resource evaluation and land use planning. Our investigations include studies of bedrock and surficial geology, metallic and industrial minerals, and energy sources (uranium, lignite, peat and oil from shale).

During 1983, the Ontario Geological Survey and the Ministry's resident geologists, will continue the ongoing program of detailed and regional field work by carrying out 34 projects. The summary of this field work is expected to be available during December, with the final maps and reports following as quickly as they can be prepared.

LIST OF PROJECTS

Precambrian Geology Section

1. G. Beakhouse and G. Stott will commence a Prostratigraphic study of the English River Gneiss belt between the Manitoba border and the Red Lake Road.
2. G. Johns will complete mapping of the Long Bay area at a scale of 1:15,840.
3. M. Carter will commence mapping of McComber and Vincent Townships at a scale of 1:15,840.
4. R. Sage will continue mapping in the Josephine area near Wawa at a scale of 1:15,840.
5. E. Grunsky will continue a 1:50,000 scale synoptic study of the Batachawana Belt.
6. P. Giblin will continue mapping of Falconbridge and Garson Townships at a scale of 1:15,840.
7. M. Easton will commence mapping in the Howland area near Minden at a scale of 1:15,840.
8. T. Muir will conduct a detailed geological study in the vicinity of the Hemlo deposits at a scale of 1:7,920.
9. G. Siragusa will commence mapping in the White Lake area at a scale of 1:15,840.
10. P. Thurston will conduct compilation mapping of the Lakehead-Atikokan area.
11. L. Jensen will commence synoptic mapping in the Englehart area at a scale of 1:50,000.
12. J. Martins will complete mapping of Blezard Township at a scale of 1:15,840.

Engineering & Terrain Geology Section

Quaternary Geology

13. P.J. Barnett will continue mapping and stratigraphic studies in the Port Burwell and Long Point areas (NTS 40/10,9) at a scale of 1:50,000.
14. Mapping of Algonquin Provincial Park will continue at a scale of 1:50,000 with the mapping of the Opeongo Lake and Algonquin Map sheets (NTS 30E/9,10).

Paleozoic Geology

15. D.J. Russell will continue studies of Paleozoic outliers throughout Northern Ontario with emphasis in the Caribou Island and New Liskeard areas.

Aggregate Inventory Studies

16. W.D. Scott, S. Szoke and staff of the Aggregate Assessment Office will continue their preparation of Aggregate Resources Inventory Papers and expect to complete field studies of approximately twenty additional townships with emphasis on Grey County, and the Sault Ste. Marie area.

Geophysics/Geochemistry Section

17. R.B. Barlow and D.H. Pitcher will continue studies on the Night Hawk geophysical test range.
18. J.A.C. Fortescue will conduct a geochemical orientation study of gold camps (Hemlo and Red Lake areas).
19. J.A.C. Fortescue will initiate studies of lakes in the Temagami area with respect to exploration and environmental problems.

Mineral Deposits Section

20. M.A. Vos will continue industrial minerals studies in Ontario with emphasis on alkalic complexes and building stones.
21. A.J. Andrews, M.E. Cherry, J.S. Springer, and A.J. Macdonald will continue comprehensive evaluation of the geology of Archean lode gold deposits.
22. M.E. Cherry will initiate a study of mineralization in granite and gneiss terrains.
23. S. Marmont and A.C. Colvine will complete a study of gold-copper-molybdenum deposits related to Archean epizonal granitoid stocks.
24. K.H. Poulsen and A.C. Colvine will complete the comprehensive study of the geological setting of mineralization in the Fort Frances-Mine Centre area.
25. A.J. Macdonald will continue studies to evaluate the association of gold in iron formations in the Pickle Lake and Beardmore-Geraldton areas.
26. A.J. Andrews will continue a study of alteration related to mineralization. The second phase will focus on detailed studies of gold mineralization in the Red Lake area.
27. M.E. Cherry will continue to evaluate the relationship between gold mineralization and granitoid intrusion in the Abitibi belt.
28. M.E. Durocher and A.C. Colvine will continue a study of the geology and distribution of gold deposits in the Red Lake area.
29. G. Patterson will continue a study of the Hemlo area.
30. A.C. Colvine will continue Huronian metallogenic study with emphasis on paleoplacer gold.
31. A.J. Andrews, L. Owsiacski, D.F. Strong, and R. Kerrich will complete a study of mineralization and alteration in the Cobalt area.
32. L. Owsiacski will complete the study of the geology and mineral deposits of the Lundy Township area.
33. J.S. Springer will continue studies of metallic and industrial minerals in the Grenville Province.
34. D. Long and A.C. Colvine will complete studies of the Middle Huronian of the Cobalt Embayment. The study is designed to evaluate the sedimentological controls on placer gold deposits.