CANADA

DEPARTMENT OF ENERGY, MINES AND RESOURCES

Geological Survey of Canada

OPEN FILE INDEX
1967-1975

Compiled by

W. H. Eyre

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GEOLOGICAL SURVEY OF CANADA

OPEN FILE INDEX 1967-1975

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EXAMINATION OFFICES

ALBERTA

Geological Survey of Canada,
Institute of Sedimentary & Pet. Geology,
3303 - 33rd Street,
Calgary, Alberta T2L 2A7.

BRITISH COLUMBIA

Geological Survey of Canada,
British Columbia Office,
6th Floor Sun Building,
100 West Pender Street,
Vancouver, B.C. V6B 1R8.

Mineral Resources Branch,
Dept. of Mines & Petroleum Resources,
Victoria, British Columbia. V8V 4S2.

MANITOBA

Manitoba Mines Branch,
Room 901, Norquay Building,
Winnipeg, Manitoba.

NEWFOUNDLAND

Mineral Development Division,
Dept. of Mines and Energy,
95 Bonaventure Avenue,
St. John's, Newfoundland.

NORTHWEST TERRITORIES

Resident Geologist,
Indian Affairs & Northern Development,
Box 1500, Bellanca Building,
Yellowknife, N.W.T.

YUKON TERRITORIES

Resident Geologist,
Indian Affairs & Northern Development,
Building 200, Takhini,
Whitehorse, N.W.T. Y1A 3V1.

NOVA SCOTIA

Atlantic Geoscience Centre,
Bedford Institute of Oceanography,
P.O. Box 10006,
Dartmouth, Nova Scotia. B2Y 4A2.

ONTARIO

Geological Survey of Canada,
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601 Booth Street, Rm. 350,
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Library, Dept. of Indian &
Northern Affairs,
400 Laurier Avenue West,
Ottawa, Ontario. K1H 0H4.

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Ontario Ministry of Natural Resources,
60 Wilson Avenue,
Timmins, Ontario.

Resident Geologist,
Ontario Ministry of Natural Resources,
4 Government Road East,
Kirkland Lake, Ontario.

Mines Library,
Ontario Ministry of Natural Resources,
Whitney Block, Queen's Park,
Parliament Building, Toronto, Ontario.

PRINCE EDWARD ISLAND

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180 Kent Street,
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1620 Boulevard de l'Entente,
Quebec 6, P.Q.

Resident Geologist,
Quebec Dept. of Natural Resources,
Lamaque Boulevard, Bourlamaque, Quebec.

Resident Geologist,
Quebec Dept. of Natural Resources,
115 McQuaig Street,
Rouyn-Noranda, Quebec.

Resident Geologist,
Quebec Dept. of Natural Resources,
Lamaque Boulevard,
Val d' Or, Quebec.

SASKATCHEWAN

Dept. of Mineral Resources,
12th Floor, Toronto Dominion Bank,
1914 Hamilton Street,
Regina, Saskatchewan.

Dept. of Mineral Resources,
Mining Recorders Office,
Box 98, La Ronge, Saskatchewan.

Dept. of Mineral Resources,
Mining Recorders Office,
Box 70, Creighton, Saskatchewan.

Mining Recorder,
Dept. of Mineral Resources,
Box 760,
Uranium City, Saskatchewan.

REPRODUCTION AND SALES OFFICES

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Institute of Sedimentary & Pet. Geology,
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West Canadian Graphic Industries,
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Resident Geologist,
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Geoscience Data Section,
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Precision Microfilming Limited,
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ONTARIO

Geological Survey Library,
601 Booth Street,
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Geological Survey of Canada,
Publication Distribution Office,
Room 107, 601 Booth Street,
Ottawa K1A 0E8, Ontario.

K.G. Campbell Corporation,
880 Wellington Street,
City Centre,
Ottawa K1R 6K7, Ontario.

Canada Centre For Remote Sensing,
717 Belfast Road,
Ottawa, Ontario. K1A 0E4.

ONTARIO (Con't)

Computer Science Centre,
Dept. of Energy, Mines & Resources,
588 Booth Street,
Ottawa K1A 0E4, Ontario.

Computel Systems Limited,
1200 St. Laurent Boulevard,
Ottawa, Ontario.

QUEBEC

Geological Services Office,
Quebec Dept.of Natural Resources,
1620 Boulevard de l'Entente,
Quebec 6, P.Q.

SASKATCHEWAN

Dept. of Mineral Resources,
12th Floor, Toronto Dominion Bank Bldg.,
1914 Hamilton Street,
Regina, Saskatchewan.

Dept.of Mineral Resources,
Mining Recorders Office,
Box 98,
La Ronge, Saskatchewan.

YUKON TERRITORY

Resident Geologist,
Indian Affairs & Northern Development,
Building 200, Takhini,
Whitehorse Y1A 3V1, Yukon.

INDEX TO GEOLOGICAL SURVEY OPEN FILES

OPEN FILE 0

Seismic data, Gulf of St. Lawrence. The data consists of 42 two-ship marine refraction seismic profiles with locations, shot distances, observer and shooter reports.
Examination Points: GSC Library, Ottawa. Copies not available for sale.

OPEN FILE 1

Geology of northeastern District of Keewatin and southern Melville Peninsula (Lat. 64° - 69°15'N by Long. 82° - 92°W, parts of NTS 46, 56, 47, 57) by W.W. Heywood. Scale: 1 inch to 8 miles. Compiled from field work in 1964 and 1965.
Now Published: in GSC Paper 66-40 and GSC Map 14-1966. Copies available from Publications Office, GSC, Ottawa.

OPEN FILE 2

(1) Double Fourier Series Expansion, Part I, Program C71303:
This program, written in FORTRAN IV (E) for IBM 360/65 computer, analyses the value of an observed variable recorded with a rectangular grid system. The Fourier series coefficients are calculated for every north-south or east-west line and the output is written on a tape in machine language form.
(2) Double Fourier Series Expansion, Part 2, Program C71304:
This program, written in FORTRAN IV (E) for IBM 360/65 computer, analyses the values in the output tape gerated by PROGRAM C71303. The coefficients of the double Fourier series expansion of the observed field values are calculated and the formatted output is written on a tape.
Examination Points: GSC Library, Ottawa. Copies available from GSC Library, Ottawa. Price: $5.00 per program.

OPEN FILE 3

Palaeomagnetic data from the Canadian Appalachian Region and their significance relative to North American Polar wandering, by R.F. Black. Area: Between Avalon Peninsula, Newfoundland and Gaspe Peninsula, Quebec. Field work in 1958, 1960, 1961 and 1962.
Examination Points: GSC Library, Ottawa. Copies not available for sale.

OPEN FILE 4

The following material was received from Eldorado Mining and Refining Limited:
1/ Geological map on a scale of 1 inch to 4 miles covering NTS 86 F,G,J, and K.
2/ Detailed ground electromagnetic and/or magnetometer surveys of parts of NTS 85 F/2 and 86 G/6.
3/ Geological and geochemical reports, with maps, covering NTS 86 E,F,G,I,J, and K.
4/ Aeromagnetic maps on a scale of 1 inch to 1 mile of the following NTS areas: 86 E/8; 86 F/7,8, 10,11,12; 86 G/3,4,5,6,7,11,12,13; 86 J/4,5,12; 86 K/1,2,3,6,7,8,9,10,11.

OPEN FILE (Con't) 4

5/ Aeromagnetic maps with partial coverage only, on a scale of 1 inch to 1 mile of the follwing NTS areas: 86 E/1,7,9,10; 86 F/1,2,9,13,14,15,16; 86 G/1,2,8,9,10,14,15,16; 86 J/3,6,7,10, 11,13; 86 K/4,5,12,14,15,16; 86 L/1.
Flight line spacing is either 1 mile or 1/2 mile.
Examination Points: GSC Library, Ottawa and at the office of the Resident Geologist, Bellanca Building, Yellowknife, N.W.T. Copies not available for sale.

OPEN FILE 5

Geology of Red Indian Lake, 12A, east half, Island of Newfoundland, by H. Williams. Scale 1 inch to 2 miles. Accompanied by short descriptive notes.
Now Published: as GSC Map 1196A. Copies available from Publications Office, GSC, Ottawa.

OPEN FILE 6

Subsurface geology, Lower Mackenzie River and Anderson River area, District of Mackenzie, by E.J. Tassonyi. The report contains descriptive and correlations of subsurface units within parts of NTS areas 86, 106, 96, 107, 97.
Now Published: as GSC Paper 68-25.

OPEN FILE 7

Geology of Tulsequah map-area, British Columbia, 104K, by J.G. Souther. The file consists of a geological map (scale 1:250,000), annotated legend, list of mineral properties with notes and references, list of published reports on the geology of the area. Compiled from field work 1958-1960.
Now Published: as GSC Memoir 362. Copies available from Publications Office, GSC, Ottawa.

OPEN FILE 8

1/ Core description of the Cominco G1 well, District of Mackenzie (114°24'30"W, 60°51'05"N). A detailed lithologic description of cored intervals, by Helen R. Belyea, 1962.
2/ Core description of the Cominco G4 well, District of Mackenzie (114°45'00"W 60°54'00"N). A detailed lithologic description of cored intervals, by Helen R. Belyea, 1962.
The above material was received from Consolidated Mining and Smelting Company of Canada Ltd.
Examination Points: GSC Libraries in Ottawa and Calgary. Copies available from GSC Library Ottawa at a charge of $2.25 per copy, prepaid.

OPEN FILE 9

Geological sketch map of Vancouver Island, British Columbia, by J.E. Muller, 1967. Scale: 1:500,000. The map is a compilation of geology of the island and is accompanied by a suitable legend.
Examination Points: GSC Libraries in Ottawa and Vancouver. This file is revised in O.F. 61.

OPEN FILE 10 Notes on the geology and mineral deposits of Canada and Australia. A comparison based on an exchange visit with the Geological Survey of Canada February 1966 to March 1967, by P.W. Crohn. Based on extensive experience with Australian mineral deposits and a year's work in Canada the author discusses the possible origin of mineral deposits in the Canadian Shield, south central British Columbia and elsewhere.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also available at the office of the Resident Geologist, Yellowknife and Whitehorse. Copies available from GSC Library, Ottawa at a charge of $5.00 per copy prepaid.

OPEN FILE 11 Bonaparte River map-area, British Columbia (92P) by R.B. Campbell and H.W. Tipper. This terminal report comprises 164 pages of typescript, 4 figures and 1 blackline print map and represents a comprehensive discussion of the geology and mineral deposits of this area.
Now Published: in GSC Memoir 363 and GSC Map 1278A.

OPEN FILE 12 Geological logs of core of four wells drilled by the Geological Survey of Canada on Prince Edward Island during 1962 and 1964. All penetrated Permo-Carboniferous strata. The core may be examined at the Geological Survey in Ottawa. Logs by R.D. Howie.
1/ Kelly Cross #1, 1513 feet, Kelly Cross, Queen's County; 46°15'32"N, 63°26'45"W.
2/ Crown Point #1, 611 feet, Crown Point Road, 7 miles southeast of Charlottetown, Queen's County; 46°11'02"N, 63°00'24"W.
3/ Wellington Station No. 2, 364 feet, Wellington Station, Prince County; 46°26'10"N, 64°01'25"W.
4/ French River #1, 200 feet, village of French River, Queen's County, 46°30'30"N, 63°30'34"W.
5/ Notes relating to item 1-4. 5 pages.
Examination Points: GSC Libraries in Ottawa and Calgary. Copies available from GSC Library, Ottawa at a charge of 10 cents per page.

OPEN FILE 13 Upper Paleozoic and Mesozoic stratigraphy in the Yelverton Pass Region, Ellesmere Island, District of Franklin, by W.W. Nassichuk and R.L. Christie. The report contains important contributions pertaining to correlation, age and tectonic history of the region specified, as well as adjacent areas.
Now Published: as GSC Paper 68-31. Copies available from GSC Publication Office, Ottawa.

OPEN FILE 14 Geological logs of the Silurian formations (formation tops) penetrated by several thousand wells drilled for oil and gas in southwestern Ontario. Formation tops determined by B.V. Sanford.
Examination Point: GSC Library, Ottawa. Copies available from GSC Library, Ottawa.

OPEN FILE 15 Seismic data, Polar Continental Shelf Project, Athabasca Sandstone Area, Hudson Bay Basin. All data are from refraction profiles with the exception of one short reflection spread in Deer Bay, Ellef Ringnes Island. These materials have been interpreted by the Geological Survey of Canada and the results published in various scientific journals and G.S.C. Papers. The original paper records, shot point location maps and other pertinent data have been microfilmed and are available at normal reproduction costs on microfilm paper through West Canadian Graphic Industries Limited, Calgary.
Some data are also on 24 magnetic tapes (DS-7) which are available for loan on request to the Library, Geological Survey of Canada, Ottawa.

OPEN FILE 16 Eleven field descriptions of some Jurassic and Cretaceous rocks in Arctic Plateau and Arctic Coastal Plain. Contains sections measured by E.W. Mountjoy and R.M. Proctor in 1962, with lithologic descriptions.
Examination Points: GSC Libraries in Ottawa and Calgary. Copies not available for sale.

OPEN FILE 17 Results of rock and mineral analyses made by the Geological Survey prior to the end of 1955 have been published as Bulletin 115. Recently a computer-based file, GEODAT, has been under development and now contains on eight reels of magnetic tape the results of some 40,000 analyses made since 1955. It also contains the results of K-Ar and C^{14} age determinations. Although some aspects of GEODAT are still under development, analyses and other data to 31 December 1966 are available as computer-printouts insofar as requested retrievals are practicable.
Copies available from GSC Ottawa Library, at a charge of $55.00. An additional charge of 25 cents a page will be made for each page in excess of one hundred.

OPEN FILE 18 Arichat map-area, Richmond and Inverness Counties, Cape Breton Island, Nova Scotia (11F/11E) by George A. Collins. This unedited manuscript, prepared in 1958 consists of a map (scale 1 inch to 1/2 mile), a legend and a report of the bedrock geology.
Examination Points: GSC Library, Ottawa. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 19 Geochemical data for 15,000 rock samples from Red Lake-Lansdowne House area, northwestern Ontario, by R.H.C. Holman, 1960-61. Roads to resources project. The data consists of colorimetric chemical analyses in parts per million for Cu, Zn, and As magnetic susceptibilities (C.G.S. units) and specific gravities. Samples are from 1 inch to 4 mile sheets: Fort Hope (42M); Lansdowne House (43D); Lake St. Joseph (52 O); Miminiska (52P); Wunummin Lake (53A); North Caribou (53B); North Spirit (53C). Publication of data for Cu was included on GSC Maps 50-1963 to 56-1963 inclusive and described in GSC Bulletin 130. Geological data for the same area have been published in GSC Paper 63-5 and on GSC Maps 2-1963, 58-1959, 50-1960, 51-1960, 8-1961, 18-1961, 1-1961, 4-1962 and 6-1962.
Examination Points: GSC Library, Ottawa. Copies of data as printouts from IBM cards and map sheets showing sample locations may be obtained at a charge of $50.00 per set to the GSC Library, Ottawa.

OPEN FILE 20 Northwest Territories preliminary geological maps, accompanied by reports by C.J. Yorath and H.R. Balkwill. Scale: 1:125,000. Simpson Lake map-area (97B) and Stanton map-area (107D). Consisting of three unedited manuscript maps and two unedited reports, all items are as a result of reconnaissance field work in 1968 on Operation Norman.
Now Published: as GSC Papers 69-9 and 69-10. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 21 Preliminary drafts of surficial geology maps by Dr. V. Rampton, covering parts of NTS 107B and 117 A,C,D. Scale: 1:250,000. Field work in 1969. Also seven less detailed surficial deposits and landforms maps by Dr. R.J. Fulton, covering NTS 96 E,F,L and 106 I,J, O, and P. Scale: 1:250,000. Field work in 1968. These manuscripts show the distribution of surface materials, landforms and ground ice conditions along the Mackenzie Valley and the adjacent Arctic Coast, and include a legend for each set.
Examination Points: GSC Libraries in Ottawa and Calgary. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 22 Gamma-ray spectrometer profiles, Ottawa, Ontario to Yellowknife, Northwest Territories. This item comprises data derived from work carried out in July and August 1969. The data are presented in computer-plotted form showing total, potassium, uranium and thorium count rates, and uranium/thorium ratios plotted against distance with fiducial and mileage marks. The item is made up of 39 profiles (scale approx. 1:1,000,000) an index map and the flight lines shown on ten 1:1,000,000 sheets. Data were obtained using six 9-x4 inch NaI (Tl) detector crystals at a mean terrain clearance of 500 feet. The results are corrected for variations in terrain clearance, atmospheric background radiation and Compton scattering.
Now Published: as GSC Paper 70-46. Copies may be obtained at the GSC Publications Office, Ottawa.

OPEN FILE 23

Geological maps of Lacolle map-area, Quebec, consisting of 8 sheets and one traverse section, by T.H. Clark and H.W. McGerrigle. Scale: 1 inch to 1/2 mile. Field work in 1927.
-The edge of the Appalachians in southern Quebec, by T.H. Clark and H.W. McGerrigle. Field work in 1927.
-The lowest Cambrian and Sutton schists of southern Quebec, by T.H. Clark. Field work 1927-1931.
-The western half of the memphremagog sheet, Quebec, by T.H. Clark. Field work 1930-1931.
Examination Points: GSC Library, Ottawa. Copies not available for sale.

OPEN FILE 24

Two subsurface sections and an index map showing Middle Devonian correlations in parts of northwestern Alberta, northeastern British Columbia, and District of Mackenzie, by Helen R. Belyea. The correlations result from a study of electric logs and well samples.
Examination Points: GSC Library in Calgary. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 25

1/ Preliminary drafts of two surficial geology maps of southern British Columbia by Dr. G.W. Smith, covering parts of NTS 82 L/NE and SE. Scale: 1:63,360. Field work in 1966-67.
2/ Twenty-four less detailed surficial geology maps by Dr. R.J. Fulton and Dr. R.A. Achard of the valley bottom parts of Arrow and Duncan Lake Reservoir areas, British Columbia, covering parts of NTS 83 E/8,9,16; 82 F/4,5,6,13; 82 K/2,4,5,6,7,10,11,12,13; 82 L/1,8,9,16 and 82 M/1. Scale: 1:40,000. Field work 1966, 1967, 1968.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 26

Preliminary drafts of five surficial geology maps of Mackenzie District, N.W.T. by Dr. O.L. Hughes, covering parts of 96 C,D,E and 106 G,H. Scale: 1:125,000. Field work in 1969. These manuscripts show the distribution of surface materials and landforms along the Mackenzie Valley, including a legend, with comments on estimated thickness, topography, drainage, ground ice content, and engineering characteristics.
Examination Points: GSC Libraries in Ottawa and Calgary. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 27

Analyses of stream sediments of the Bathurst-Jacquet River District, New Brunswick. NTS areas: 21 P/12, 21 P/13, 21 O/9E, 21 O/16E. These are data from which the maps in GSC Paper 65-42 were prepared and consist of a magnetic tape containing 7000 card images (3500 for field data and 3500 for analytical data) and a map showing sample locations (scale: 1:63,360). Programs have been prepared from which duplicate tapes, punched cards or a listing (70 pages with 50 samples to a page and headings) may be obtained by application to the GSC Library, Ottawa in any of the following forms on next page, with charges as follows:

OPEN FILE 27 (Con't)

A/ copy of either tape or punched cards or printout - $50.00
B/ copy of any two of these forms - $75.00
C/ copy of all three forms - $100.00
D/ blackline copy of map - $5.00
The file may be viewed at the Geological Survey of Canada, in Ottawa.

OPEN FILE 28

Seven unedited manuscript geological maps of parts of the Canadian Arctic Archipelago, compiled by R. Thorsteinsson. Geological field work by R. Thorsteinsson, E.T. Tozer, J.W. Kerr and H.P. Trettin between 1956 and 1963.
1/ Slidre Fiord map-area, Canadian Arctic Archipelago. Scale: 1:50,000
2/ Eureka Sound North map-area (49G), Canadian Arctic Archipelago. Scale: 1:125,000.
3/ Strand Fiord map-area (59H), Canadian Arctic Archipelago. Scale: 1:125,000.
4/ Eureka Sound South map-area (49F), Canadian Arctic Archipelago. Scale: 1:125,000.
5/ Glacier Fiord map-area (59E), Canadian Arctic Archipelago. Scale: 1:125,000.
6/ Haig-Thomas Island map-area (59F), Canadian Arctic Archipelago. Scale: 1:125,000.
7/ Middle Fiord map-area (59G), Canadian Arctic Archipelago. Scale: 1:125,000.
Now Published: as GSC Maps 1298A, 1299A, 1300A, 1301A, 1302A, 1303A, and 1304A.
Copies available from GSC Publications Office, Ottawa.

OPEN FILE 29

Preliminary drafts of 16 surficial geology maps and legend of southern Labrador by Dr. R.J. Fulton and Mr. D. Hodgson covering NTS 13F. Scale: 1:50,000. Field work in 1969. These maps show the distribution of surface materials and landforms; map-units are based on the genesis of the material, it morphology, and where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 30

Eleven preliminary geological maps of Southampton Island and a legend, covering parts of NTS 45 and 46 by W.W. Heywood and B.V. Sanford. Scale: 1:250,000. Field work in 1969.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation, Limited, Ottawa.

OPEN FILE 31 Gamma-ray logging of water wells in southeastern Alberta and southwestern Saskatchewan, by J.D. Bushell. The file comprises a short unpublished report (11p.) manuscript location maps and radiometric logs for 156 wells tested with a down-hole gamma-ray probe in 1969.
Examination Points: GSC Library, Calgary. Copies not available for sale.

OPEN FILE 32 Preliminary drafts of 2 Quaternary geology maps and legend by Dr. N.R. Gadd covering NTS 21 G/2,3. Scale: 1:50,000. Field work in 1967-68. These manuscripts show the distribution of surface materials and landforms in southwestern New Brunswick, including a legend, with comments on estimated thickness, topographic expression and relief of the various map-units.
Now Published: as GSC Paper 71-34. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 33 Unedited report and preliminary geological map of the Colville Lake map-area and part of Ermine map-area (96NW and NE; part of 86NW), Northwest Territories, by G.D. Cook and J.D. Aitkin. Shows results of reconnaissance mapping, Operation Norman, 1968.
Now Published: as GSC Paper 70-12. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 34 Geology of Kekeko Hills and southern portion of S.W. quarter of Beauchastel Township, Temiscaminque County, Quebec by W.G.Q. Johnston, 1957. Scale: 1 inch to 1,000 feet. Part of NTS 32 D/3.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 35 Distribution of ore elements in rocks for evaluating ore potential: Nu, Cu, S in ultramafic rocks of the Canadian Shield, by E.M. Cameron, G. Siddeley and C.C. Durham with an appendix on the determinations of Cu, Nu, Co in rocks by atomic absorption spectrometry using a cold leach, by John J. Lynch (Presented at 3rd Int. Exploration Geochemical Symposium 1970).
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 36 Manuscript map of the surficial deposits and landforms of the Gatineau Park and Vicinity (parts of NTS 31 F/9, 31 G/5 and 31 G/12), by Jane T. Buckley, including a legend. Scale: 1:50,000. Field work in 1967-1969.
Examination Points: GSC Library, Ottawa. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 37 Electric and lithologic logs of the C.P.O.G. Strathmore 7-12-25-25W4 well in the western plains area of Alberta. Lithology by C.J. Havard and the description is based on continuous core between depth of 599 feet and 2,540 feet (total footage of 1,941 feet). the strata described are of Upper Cretaceous age and comprise the upper part of the Belly River Group, the Bearpaw Formation, and most the Horsehoe Canyon Formation of the Edmonton Group. Formational contacts are indicated.
Examination Points: GSC Library, Calgary. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 38 Eight manuscript geological maps and attached legends, of parts of the Canadian Arctic Archipelago. Geological field work by R. Thorsteinsson, E.T. Tozer, J.W. Kerr and H.P. Trettin. Field work between 1956 and 1963.
1/ Cape Stallworthy map-area, Canadian Arctic Archipelago (560D). Scale: 1:125,000.
2/ Bukken Fiord map-area, Canadian Arctic Archipelago (560A). Scale: 1:125,000.
3/ Tanquary Fiord map-area, Canadian Arctic Archipelago (340D), Scale: 1:125,000.
4/ Otto Fiord map-area, Canadian Arctic Archipelago (340C). Scale: 1:125,000.
5/ Greely Fiord map-area, Canadian Arctic Archipelago (340B). Scale: 1:125,000.
6/ Canon Fiord map-area, Canadian Arctic Archipelago (49H). Scale: 1:125,000.
7/ Strathcona Fiord map-area, Canadian Arctic Archipelago (49E). Scale: 1:125,000.
8/ Baumann Fiord map-area, Canadian Arctic Archipelago (49C). Scale: 1:125,000.
Now Published: as GSC Maps 1305A, 1306A, 1307A, 1308A, 1309A, 1310A, 1311A, 1312A.
Copies available from GSC Publications Office, Ottawa.

OPEN FILE 39 Seismic data, Gulf of St. Lawrence. Seismic data on microfilm of 80 two-ship marine refraction profiles with locations, shot distances, observer and shooter reports. These items include those covered by Open File announcement of May 29, 1967 (Open File 0) and comprise all marine seismic data obtained by the Geological Survey in the Gulf of St. Lawrence.
Examination Points: GSC Library, Ottawa. Microfilm or paper prints available from West Canadian Graphic Industries, Calgary.

OPEN FILE 40 Unedited report and preliminary map of Brock River map-area, District of Mackenzie (97D) showing results of reconnaissance mapping of Operation Norman, by H.R. Balkwill and C.J. Yorath. The items consists of a report of 39 pages, two blackline maps and 1 page legend.
Now Published: as GSC Paper 70-32. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 41 Unedited report and terminal geological map of Belleoram map-area (1 M/11) Newfoundland by H. Williams, consisting of a blackline map, with a legend, and a report of 58 pages. Scale: 1:50,000. Field work in 1969.
Now Published: as GSC Paper 70-65. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 42 Unedited manuscript map with legend of Snegamook Lake map-area (13K E/1/2) Newfoundland, Lzbrador, by F.M.G. Williams. Scale: 1:250,000. Field work in 1966-67.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 43 CONTENTS: Introduction; Retrieval Program (functions); GEODAT definition and contents; Turnaround time; completion procedure for retrieval forms; Geodat retrieval request forms; Retrieval request examples; 7p.
APPENDICES: Description codes applied to data; Mnemonic codes for material names; Contents of the individual constituent lists; Binary tape format; Interpretative overlay for Type 1 retrieval listing; Sample of Type 1 listing from Geodat retrieval; Sample of Type 2 listing of listing from B.C.D. output tapes from Geodat retrievals; 29p.
Examination Points: GSC Libraries in Ottawa, Calgary. Copies of retrieval manual are available at a charge of 10 cents per page from the GSC Library, Ottawa.

OPEN FILE 44 Geology and Mineral deposits of Tulsequah map-area, British Columbia (104K) by J.G. Souther. Material consists of 83 typewritten pages, 3p. references, 21p. stratigraphic sections, 9p. fossil localities and 6p. figures. Map 1262A which accompanies this report was released to the public in August 1970. The published version of this report was released in 1971.
Now Published: as GSC Memoir 362. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 45

An experimental high-sensitivity gamma-ray spectrometer survey was carried out by the Geological Survey of Canada in the Bancroft area of Ontario in 1969. Results have been compiled for an area of approximately 400 square miles, bounded by Lat. 44°51' and 45°15'N, Long. 77°48' and 78°05'W. Because of the large quantity of inter-related data this information will not be published in the usual manner but it has been prepared to publication standard.

The release comprises: Profiles for 61 flight lines at a scale of 1:250,000 and seven contoured radiometric maps on a scale of 1:50,000.

Each profiles shows the following measurements plotted against distance, corrected where relevant for atmospheric background, deviations from the nominal terrain clearance, and Compton scattering:

1/ Integral (i.e. wide spectrum) count rate
2/ Potassium count rate
3/ Uranium count rate
4/ Thorium count ratio
5/ Uranium: thorium ratio
6/ Uranium: potassium ratio
7/ Thorium: potassium ratio
8/ Terrain clearance

The radiometric maps are also fully corrected and relate to each of the parameters (1) to (7) listed above. Each one is reproduced on a base showing individual flight lines and the principal geographic features in the area, together with an explanatory paragraph.

The maps are intended to provide an overall picture of the radiometry of the area, whilst the profiles are most useful for information about specific localities. All profiles and contours have been computer plotted.

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 46

Chemical results of heavy mineral concentrates from stream sediments in Keno Hill, Yukon Territory.

1/ Map of parts of NTS 106 D/1,3,4 and 105 M/13,14 and 15 showing drainage, sample locations and sample numbers (covers 1900 square miles).
2/ Chemical analyses on cards of colorimetric determinations on the magnetic fraction including Cu, Pb, Zn, Ni, Co, As, Sb, Mo, and qualitative spectrographic estimates on the non-magnetic fraction including Si, Fe, Ti, Al, Ca, Mg, Mn, Ba, Zr, Cr, V, Sn, Sr, Ag, Cu, Pb, Ni, Co, Y, Yb, La, Ce, Sc, Eu.
3/ 8 pages of laboratory report of the gold content of the concentrates (in PPB.)

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available either on cards or listed on a printout from Computel Systems Limited, Ottawa; Riley's Data Share International Limited, Calgary; and Riley's Data Share International Limited, Vancouver.

OPEN FILE 47 Twenty field maps and accompanying notes on cards which have been reproduced on 8 1/2 by 11 inch paper sheets, 4 cards per sheet. Geology by C.K. Bell, 1957 and 1958 in parts of NTS 74 N/7. The maps and notes are raw data only, uninterpreted and unprocessed. Maps are at a scale of 1 inch to 400 feet. The maps show station locations, some attitudes and some structure. Accompanying notes (cards) include, description of station location, a brief description of the rocks at that particular station, and samples taken.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 48 Preliminary drafts of two surficial geology maps of Mackenzie District, N.W.T. by Dr. R.W. Klassen, covering NTS 97 C,D. Scale: 1:250,000. These manuscripts show the distribution of the surficial materials and landforms, with explanatory legend.
Examination Points: GSC Libraries in Ottawa and Calgary. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 49 Compaction fluid migration in Cretaceous shales of Western Canada by Kinji Magara; 47 typewritten pages, 5 tables and 45 figures. The work was carried out between August 1967 and August 1969. This report is a comprehensive study of the properties (porosity, permeability, fluid content and movement) under different conditions of load in shales of different types from the subsurface Cretaceous formations of Western Canada. It results from work done by the author while a Research Fellow at the Geological Survey's Institute of Sedimentary and Petroleum Geology.
Now Published: as GSC Paper 72-18. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 50 Unedited geological report of Recontre East map-area (part of 1 M/11) Newfoundland by B.L. Smith and D.E. White. Field work in 1954. This report is referred to in Open File 41 (Belleoram map-area by H. Williams, which is now published as GSC Paper 70-65.)
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 51 Molybdenum and Tungsten in some acid plutonic rocks of southeast Yukon Territory by R.G. Garrett. Preliminary report on the 1970 field season when 74 bodies of acid plutonic rock were samples from northeast of Tintina Trench between latitudes 62°40'N and 64°40'N. Amongst a broad range of major minor and trace elements the results of Mo and W show certain features of interest which are related to mineral potential. NTS Areas: 105 I,J,K,M,N,O,P; 115P; 116B.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Office of the Resident Geologist, Yellowknife and Whitehorse. Copies available free of charge from the above mentioned offices.

OPEN FILE 52

Preliminary drafts of 16 surficial geology maps and legend (7p.) of part of southern Labrador (13C) by Dr. R.J. Fulton, Mr. D. Hodgson and Miss G. Minning. Scale: 1:50,000. Field work in 1970. These maps show the distribution of surface materials and landforms, map units are based on the genesis of the material, its morphology, and where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Library, Ottawa. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 53

1/ Continous strip, thermal infrared imagery, flight log data, Index maps relating to an airborne infrared survey flown in 1965 by H.R.B. Singer Inc. under contract to the Geological Survey. A report "Airborne Infrared Survey Experiments in Canada" prepared by T.R. Ory and R.W. Stingelin of H.R.B. Singer Inc. with 57 pages of text and 23 illustrations. The survey includes the area about Carleton Place (E. Ontario), parts of Vaudreuil district of Quebec and the shoreline of western Lake Ontario between Toronto and Niagara River.
2/ Thermal infrared imagery, flight log data and Index maps produced during a second contract with H.R.B. Singer Inc. flown in 1966. The imagery includes parts of the Thousand Islands district, the shoreline of the Lake Ontario, the Niagara River, the shoreline of Lake Erie, the Detroit River and the shoreline of Lake St. Clair.
Examination Points: GSC Library, Ottawa. Copies available from the Canada Centre For Remote Sensing, 717 Belfast Road, Ottawa, Ontario. K1A 0E4.

OPEN FILE 54

Seismic Reflection Data, Northern Gulf of St. Lawrence. Data on microfilm of about 1,000 km of low energy (1 to 10 cu. inch airgun) seismic reflectionprofiles obtained by C.N.A.V. Sackville cruise No. 69-048 in the area between Anticosti Island, the Port au Port Peninsula and the Strait of Belle Isle. Track Chart of fix positions included.
Examination Points: GSC Library, Ottawa. Copies may be obtained from West Canadian Graphics Industries Limited, Calgary.

OPEN FILE 55

The following are flight data, index maps and samples of imagery:
Flight 1: West from Bancroft, Ontario, 15 miles long, scale 1:176,000. Films - Panchromatic, Infrared, Colour, False-colour.
Flight 2: Southwest from Mont Tremblant, Quebec, 18 miles long, scale 1:176,000. Films - Colour, Panchromatic colour separation negatives, red, green, and blue.
Flight 3: West from Bancroft, Ontario, 50 miles long, scale 1:229,000. Films - Infrared, Colour, False-colour (negatives), false-colour (positive).
Examination Points: GSC Library, Ottawa. Copies available from Canada Centre For Remote Sensing, 717 Belfast Road, Ottawa, Ontario. K1A 0E4.

OPEN FILE 56 Log of diamond-drill hole Hotailuh #2 (16p.) The hole was drilled by the Department of Enery, Mines & Resources for scientific purposes and was logged by J.G. Souther of the GSC. The hole is located in the Cry Lake (104I) map-area, British Columbia at approximately 58°09'6'N, 129°51.9'W. It is drilled in rocks of map-unit 15b, Geological Survey of Canada map 62-29, and is 1,400 feet in depth. A sample from the lower part (1,390) of the core has been dated by the Geochronology Section of the GSC by potassium-argon methods as 139-6-m.y. on biotite and 147-8 m.y. on hornblende. These ages and others from the Hotailuh Batholith will be reported and discussed in the GSC Paper 71-2A, Age determinations and Geological studies report #10.
Examination Points: GSC Libraries in Ottawa and Vancouver. The core is not split and can be seen at the Vancouver Office. The manuscript is available for sale from Riley's Data Share International Limited, Vancouver.

OPEN FILE 57 Reconnaissance geology; southern Great Bear Plain, District of Mackenzie (NTS 86D,E; 96A,G,H; parts of 86C and 96B), by H.R. Balkwill; consisting of one unedited map (scale: 1:500,000) with legend, showing geological boundaries and distribution of geological units in this region (i.e.between latitudes 64 and 66 degrees and longitudes 117 and 124 degrees) and 58p. of unedited report. Based on work carried during the field seasons of 1968 and 1969.
Now Published: as GSC Paper 71-11. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 58 Side Scan Sonar, Echo Sounding and Shallow Seismic Data, Beaufort Sea; Data on microfilm of about 800 nautical miles of side scan sonar, 2,000 N. Mi. of alpine echo sounding, and 150 N. Mi. of Huntec 2A sparker seismic reflection profiles taken from C.S.S. Hudson in the Beaufort Sea during part of the summer of 1970. Additional data on 250 nautical miles of seismic reflection in the western part of west side Mackenzie Bay obtained from G.S.S. Richardson also available. Track chart indicating all locations of lines included.
Examination Points: GSC Library in Calgary. Paper copies available from West Canadian Graphic Industries, Calgary.

OPEN FILE 59 Preliminary drafts of 16 surficial geology maps, and a legend (7p.) of part of southern Labrador (NTS 13G) by Dr. R.J. Fulton, Mr. D. Hodgson and Miss G.V. Minning. Scale: 1:50,000. Field work in 1970. These maps show the distribution of surface materials and landforms; map-units are based on the genesis of the material, its morphology, and where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 60 The under-way geophysical data obtained by C.S.S. Hudson in Beaufort Sea in August and September 1970. The data consists of 256 pages of computer printout of preliminary values of gravity anomaly, total magnetic field and the magnetic anomaly (IGRF). The data are given at two minute intervals along the ship's track together with geographic latitude and longitude of each observation. The gravity data are only preliminary values and have not been corrected for reference base value or instrument drift.
Examination Points: GSC Libraries in Ottawa and Calgary. Copies of data may be obtained from West Canadian Graphic Industries, Calgary.

OPEN FILE 61 Geological reconnaissance map of Vancouver Island, British Columbia. Revision of Open File 9, 1967 to March 1971 by J.E. Muller. The compilation is based on published reports and some assessment reports and private information and field work mainly north of latitude 49' during 1969 and 1970.
Examination Points: GSC Libraries in Ottawa and Vancouver. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 62 Lower Cretaceous Bullhead Group between Bullmoose Mountain and Tetsa River, Rocky Mountain Foothills, Northeastern British Columbia, by D.F. Stott. Unedited report consisting of 153 pages of text, 20 figures, 3 tables, 15 plates and an appendix containing 35 measured sections. The report gives a detailed stratigraphic description of the Bullhead Group including brief summaries of (a) clay minerology of the Gething Formation, by A.E. Foscolos; and (b) the microfauna, mainly Foraminifera, of the Gething Formation, by T.P. Chamney.
Now Published: as GSC Bulletin 219. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 63 Radiometric maps and profiles from the gamma-ray spectrometry system. The release relates to an area, approximately centred on Eldorado, Saskatchewan, which is 24 miles north to south and 29 miles east to west; it is bounded by Latitudes 59°23'N; 59°44'N; Longitudes 107°55'W; 108°45'W. It comprises profiles for 24 flight lines, reproduced at a scale of 1:250,000, and seven contoured maps showing different radiometric parameters reproduced at a scale of 1:126,720 (1 inch to 2 miles). Flight line spacing is 2 km; data was integrated over approximately 1,000 feet sample lengths, along the lines.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 64 Preliminary notes on lower Paleozoic geology, Foxe Basin, northeastern Melville Peninsula, and parts of northern and central Baffin Island by H.P. Trettin. This unedited report, consisting of 151 pages of text and 19 figures, is a preliminary compilation of data obtained during field work in 1968. It contains (1) summaries both on a regional and local scale; (2) relevant field notes; (3) fossil identifications by B.S. Norford, C.S. Barnes, A.J. Boucot and M.J. Copeland; and (4) preliminary descriptions of hand specimens polished sections and thin sections. The report is accompanied by 1 correlation chart, 1 regional structural sketch map, 5 regional index map, 10 location maps (1:250,000), 2 preliminary maps showing lower Palaeozoic geology. (NTS 47A,D).
Examination Points: GSC Libraries in Ottawa and Calgary. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 65 Upper Paleozoic stratigraphy of the Eagle Plain Basin, Yukon Territory by H.L. Martin. This unedited report, consisting of 63 pages of text, 2 tables and 7 figures, is the result of a comprehensive study of the subsurface formations of the Eagle Plain Basin and includes a discussion of the stratigraphy, lithology, paleontology, and facies development. Three new names are proposed for members of the Hart River Formation; the Appendix comprises lithologic logs of three wells in which occur the type or reference sections of three new members: Canoe River, Chance Sandstone, and Birch. The study was based on fourteen wells available to January 1, 1971 and on outcrop studies by A.W. Norris in 1962 and E.W. Bamber and J.B. Waterhouse between 1962 and 1970.
Examination Points: GSC Libraries in Ottawa and Calgary. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 66 Geology of Prince of Wales and adjacent small islands, District of Franklin, by R.L. Christie. The file comprises a set of 6 maps on a scale of 1:125,000 and a legend, showing unedited geology compiled by R.L. Christie and based on reconnaissance field work by R.L. Christie and W.W. Nassichuk in 1962 and by R.L. Christie, J.W. Kerr and R. Thorsteinsson in 1970. The maps are of the following areas: Fisher Lake (68A), Mount Cowie (68B), Baldwin Head (68C), Baring Channel (68E), Lowther Island (68E) and Franklin Strait (67H).
Examination Points: GSC Libraries in Ottawa and Calgary. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 67 Carboniferous and Permian stratigraphy of Axel Heiberg Island and western Ellesmere Island, Canadian Arctic Archipelago by R. Thorsteinsson. The file comprises an unedited report and illustrations, including 183 pages of text, 11 figures, 3 tables and 27 plates. The report describes the Carboniferous and Permian stratigraphy of the region covered by the 15 maps placed on Open File 28 (June 16, 1970) and 38 (September 28, 1970). The report is based on reconnaissance field work by R. Thorsteinsson, J.W. Kerr, E.T. Tozer, and H.P. Trettin during 1956, 1958, 1961, 1962 and 1963.
Now Published: as GSC Bulletin 224. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 68 Telegraph Creek map-area (104G), British Columbia by J.G. Souther. This unedited geological map at 1 inch to 2 miles and report of 30 pages is the terminal map and report on this map-area. The map is the result of several years' field work completed in 1969, and contains extensive revisions to the first edition published as part of the Stikine River sheet, Geological Survey of Canada Map 9-1957. The report contains a description of the general geology of the area, a brief discussion of the economic geology and short descriptions of the principal mineral properties. It also includes a table of formations and list of references.
Now Published: as GSC Paper 71-44. Copies available at the GSC Publications Office, Ottawa.

OPEN FILE 69 Microprobe analyses of Pyroxenes, and Chemical analyses, Norms, and Modes of Nipissing Diabase from Henwood Township, Ontario by J.J. Jambor. This report contains supplementary tables and descriptive data to accompanying the writer's paper on the Nipissing Diabase. The paper was published in Volume 11, part 1, of the Canadian Mineralogist which is a special issue on "The Silver-Arsenide Deposits of the Cobalt-Gowganda Region, Ontario". Figure numbers in the present report correspond to those given in the Canadian Mineralogist.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 70 Geology of Port Aux Basques map-area, Newfoundland (NTS 11 O) by J.W. Gillis. The file contains a map (scale: 1 inch to 2 miles) with legend, symbols and 5 pages of notes and 2 pages of references. The Geology is by J.W. Gillis (1963-64), and the file is compiled in part from published reports by D.M. Baird and P.R. Cote (1964), J.R. Cooper (1954), George Phair (1959), John Utting (1965), and in part from unpublished maps by Buchans Mining Company Limited.
Now Published: as GSC Paper 71-42. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 71 A report on the first phase of the Cape Breton Mineral Resources Project, August 31, 1969, by W.S. Shaw consisting 71p. text, 2 appendices, 4 coloured maps. The Cape Breton Development Corporation (Devco) has requested that a copy of this report ("Cape Breton Mineral Resources Project, Aug./69") be placed on the Open File. It was prepared by Dr. W.S. Shaw, St. Francis Xavier University, Antigonish, on contract to Devco. It summarizes the geology of Cape Breton Island, compiles the known metallic mineral occurrences plus barite, fluorspar, magnesite and celestite, and points out the systematic association of ore minerals, rock types, structures and geological conditions.
Examinations Points: GSC Library, Ottawa. Copies not available for sale.

OPEN FILE 72 Lower Jurassic volcanic rocks of the west half of Smiths map-area, British Columbia (93L) by H.W. Tipper.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver.

OPEN FILE 73 Whalesback Project: (a) Description by rapid methods of ten principal oxides (Fe_2O_3 total, MnO, TiO_2, CaO, K_2O, SiO_2, Al_2O_3, MgO, Na_2O, CO_2) in some 500 samples principally of basic volcanic rocks, taken from an area of 130 square miles centred on the Whalesback Mine North of Springdale, Newfoundland, 31 sheets of report of analyses. (b) Manuscript overlay at a scale of 1:50,000 showing location of the samples. (c) Computer printout to illustrate the regional variation of the principal oxides in the basic volcanic rocks (basalt and andesite) by means of first and second order trend surfaces.
Examination Points: GSC Library, Ottawa. Copies not available for sale.

OPEN FILE 74 Geological map of Digby (East Half) map-area, Nova Scotia (21 A/12), with a legend, by W.G. Smitheringale. The map portrays the bedrock geology at a scale of 1 inch to 1/2 mile. It results from field work done in 1958 and 1959.
Now Published: in GSC Memoir 375 and GSC Map 1344A. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 75 Radiometric maps and profiles from the gamma-ray spectrometer system relating to an area, approximately centred on Elliot Lake, Ontario, situated to the west of Elliot Lake townsite which is 37.9 miles north to south and 14.6 miles east to west (longitude 82°41' to 83°W, latitude 46°08' to 46°42'N). The data comprises profiles for 49 flight lines, reproduced at a scale of 1:250,000 and seven contoured maps showing different radiometric parameters, reproduced at a scale of 1:50,000. Flight line spacing is 0.5 km. and data were integrated over approximately 500 ft. sample lengths along the lines.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation, Ottawa.

OPEN FILE 76 The Carboniferous of Eastern Canada by P.A. Hacquebard. This report of 36 pages and 12 figures was presented at the 7th International Congress of Carboniferous Stratigraphy and Geology, held in Krefeld, Germany in August 1971. It gives, with detailed literature references, a synthesis of the tectonism, lithology, and biostratigraphy (with emphasis on palynology) of the major Carboniferous rock units. Also discussed are the distribution age, production, and reserves of the coal deposits, as well as the effects of the tectonic setting on seam development, petrographic types and coal facies. Regional variations in coal rank are illustrated in an isoreflectance map and are compared with the distribution of known oil and gas occurrences of the Atlantic region.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 77 Rare Element Minerals of Canada, revised to 1951 by H.V. Ellsworth. This unedited and incomplete manuscript, originally of 583 pages (28 pages missing), is principally of historic interest but describes Canadian deposits (mainly pegmatites) containing minerals of uranium, thorium, lithium, rubidium, caesium, beryllium, zirconium, hafnium, tantalum, columbium (niobium) and the rare earths. Many of the deposits described are no longer accessible.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 78 Preliminary drafts of 16 surficial geology photomosaic maps, and a legend (7p.) of part of southern Labrador (13D) by Dr. R.J. Fulton, Mr. D. Hodgson and Miss G. Minning. Scale: 1:50,000. Field work in 1970. These maps show the distribution of surface materials and landforms; map units are based on the genesis of the material, its morphology, and where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 79 Tuchodi Lakes, British Columbia (94K) by G.C. Taylor and D.F. Stott. This unedited report and map was done in 1963-65 and the map area contains copper deposits, including those of Churchill Copper Corporation, Limited. Scale: 1:125,000.
Now Published: as GSC Memoir 373. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 80 Preliminary drafts of 16 surficial geology photomosaic maps, and a legend (7p.) of part of southern Labrador (13B) by Mr. D. Hodgson, Miss G. Minning and Dr. R.J. Fulton, compiled from data collected during the 1970 field season. Scale: 1:50,000. These maps show the distribution of surface materials and landforms; map-units are based on the genesis of the material, its morphology, and where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Library, Ottawa. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 81 Preliminary drafts of 16 surficial geology maps, and a legend (7p.) of part of southern Labrador (13K) by Dr. R.J. Fulton, Mr. D.A. Hodgson and Miss G. Minning compiled from data collected during the 1970 field season. These maps show the distribution of surface materials and landforms; map units are based on the genesis of the material, its morphology, and where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Scale: 1:50,000.
Examination Points: GSC Library, Ottawa. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 82 Stratigraphy, Facies and Palaeogeography of Mesozoic and Tertiary rocks of Northern Yukon and Northwest Territories, Mackenzie District, (NTS 107B), 106M, 117 A, 116 O (N1/2), 116I, 116H, 116 K (E1/2), by Dr. J.A. Jeletzky. This unedited report comprises 71 pages of typescript, and two page size maps, a correlation diagram and describes field work carried out in 1971.
Examination Points: GSC Library, Ottawa and Calgary. Copies available from Orhan's Reproductions and Photomapping limited, Calgary.

OPEN FILE 83 Continuous Reflection Seismic Profiling Data, Tofino Basin, West Coast Vancouver Island. Data on 105mm Micromaster negatives of about 1800 kilometers of reflection profiles using 5000 joule sparker source, single channel recording. Track chart showing locations of all profiles is included. Area includes the continental shelf and upper slope west of Vancouver Island from Cape Scott, V.I. to Cape Flattery, Washington. The profiles were recorded during 1968.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Vancal Reproductions Limited, Vancouver.

OPEN FILE 84 Twenty-one data compilation maps of the following areas: in northeastern Ontario, - Abbotsford, Bonis, Findlay, Galna, Hepburn, Kerrs, Mulligan, Moody, Scapa, Sherring, Warden, Wesley townships (scale: 1 inch to 1 mile) and in northwestern Quebec: - Carpentier (NE,SE,SW,NW), Cléricy (SE), Senneville (NE,SE,SW,NW) quarter townships (scale: 1 inch to 1,000 feet). These maps were compiled as part of a Special Employment Program and are similar to those of the Timmins Data Series, Ontario Department of Mines and Northern Affairs. The maps present data from public files of the Resident Geologists, Kirkland Lake (Ontario Dept. of Mines and Northern Affairs), Val d'Or and Rouyn (Quebec Dept. of Natural Resources).
Examination Points: GSC Libraries in Ottawa and Calgary. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 85 Preliminary drafts of a surficial geology map and legend by A. Dreimanis covering NTS 40 I/11 Scale: 1:50,000. Field work in 1964 (sponsored by Ontario Dept. of Mines and Northern Affairs) and 1968-1969. The maps shows the distribution of surface materials and landforms, and thickness of the most common materials.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 86 Bathurst Island Group and Byam Martin Island, Arctic Canada (Operation Bathurst Island) by J.W. Kerr. This unedited geology report was done during the seasons of 1963, 1964 and 1965. The file consists of text, lithologic sections, map, tables, plates and figures.
Now Published: GSC Memoir 378 and GSC Map 1450A. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 87 Geology and Mineral deposits of Yukon Territory and Part of Southeast District of Mackenzie, Northwest Territories, by D.C. Findlay. Scale: 1:1,500,000. Data on this map are based on information available to 1968 only. It shows the location of 169 properties, and indicates the major geological boundaries, relationships and structures.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Office of the Resident Geologist, Whitehorse. Copies available from Vancal Reproductions Limited, Vancouver.

OPEN FILE 88 Greely Fiord (east half) map-area, Arctic Islands (NTS 340A) by R. Thorsteinsson. This unedited manuscript consists of a geological map and legend of part of the Canadian Arctic Archipelago with geology by R. Thorsteinsson and J.W. Kerr during the seasons of 1961, 1962, and 1963. Scale: 1:125,000.
Now Published: as GSC Map 1348A. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 89 Lake Geochemistry - A low sample density Technique for Reconaissance Geochemical Exploration and Mapping of the Canadian Shield. It was presented at the Fourth International Geochemical Exploration Symposium in London, England in April, 1972. It contains geochemical maps for Cu, Ni, etc., based on analysis of lake materials, for several areas of interest in the Northwest Territories, e.g. High Lake, Hackett River, Indin Lake, along with supporting data on the composition of the rocks of these areas. The work was done in 1970 by R.J. Allan, E.M. Cameron and C.C. Durham and consists of 67 pages.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 90 Uranium analyses of stream sediments used in computer contouring of anomalies shown in Figure 1, GSC Paper 70-54, in the Carboniferous basin of the northern Mainland of Nova Scotia. This information is made available as a result of inquiries by the mining exploration industry for more detailed geochemical data on this region. The file consists of a copy of Figure 1 to which numerical values and contours have been added by hand.
Examination Points: GSC Library, Ottawa. Copies not available for sale.

OPEN FILE 91 Side Scan Sonar and Echo Sounding, Data, Beaufort Sea; Data on microfilm of about 150 miles of side scan sonar (E.G. and G. unit) and corresponding echo sounding (Kelvin Hughes M.S. 26F) profiles of the nearshore areas of the Beaufort Sea from the west side of Mackenzie Bay to Toker Point north of Tuktoyaktuk. Track chart showing location of lines run is included.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Paper copies available from West Canadian Graphic Industries Limited, Calgary.

OPEN FILE 92 Unedited draft of surficial geology of Duck Mountain area (NTS 62N), Manitoba - Saskatchewan by R.W. Klassen. Preliminary draft of surficial geology plotted on four photomosaics comprising NTS 62 N, N.W. 1/4; NTS 62N, S.W. 1/4; and NTS 62N, SE 1/4 on a scale of 1:125,000. Compiled from data collected during the 1968-1969 field seasons. Legend included. Data plotted on uncontrolled mosaics. Maps show distribution of surface materials and landforms; map units are based on the genesis of the material, its morphology, and its texture.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 93 Preliminary drafts of surficial geology photomosaic maps, District of Mackenzie (NTS 95A, 85E, 95J and 95H) compiled by N.W. Rutter, Miss G.V. Minning and J. Netterville. The report comprises unedited, preliminary drafts of 4 surficial geology maps with legend of part of the Mackenzie Valley Transportation Corridor, N.W.T. on a scale of 1:125,000. These comprises Trout Lake (95A), Mills Lake (85E), Camsell Bend (95J) and Fort Simpson (95H), and show the distribution of surface materials and landforms; map-units are based on the genesis of the material, its morphology, and where appropriate, its texture. Geologic data were collected in 1971 and have been plotted on uncontrolled airphoto mosaics. Transparent overlays outlining landscape units based on landforms, vegetation and frost characteristics, and a legend by C. Crampton, Canadian Forestry Services, are included for the four sheets.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 94 List of published measured lithologic sections in the Canadian Arctic Islands with index map showing number of section and location. Compiled by K.J. Roy. The item comprises an unedited report and map, list of lithologic sections of geological formations in the Arctic Islands measured and described by officers of the Geological Survey and by J.C. Troelsen, prior to 1971. Locations and numbers of sections are shown on the index map and the author, name of publication, location co-ordinates and other pertinent information are given in the text. 38p. of text and 1 index map.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 95 Modelevskii, M.Sh., Tolstoi, N.S. Geology and oil and gas content of Arctic and Subarctic regions of the world. (Geologiya i neftegazonosnost' arkticheskikh i subarkticheskikh rayonov mira). Translation from the Russian by the Secretary of State, Ottawa. Moscow, 1970. 110 pages in original, 224 typed pages in the translation.
"Problems of geology and oil-gas content of the North American Arctic region and in the shallow-water area of the Arctic Ocean are examined with evaluation of potential resources. Data were obtained by mid 1970 and include information on oil and gas resources in the Soviet Arctic".
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies may be obtained from Campbell Quickprint, Ottawa; and Orhan's Photomapping and Reproductions Limited, Calgary.

OPEN FILE 96 Preliminary drafts of surficial geology and landform maps of Malloch Hill (NTS 97F), Mackenzie Delta (NTS 107C), Stanton (NTS 107D) and Cape Dalhousie (NTS 107E), by V.N. Rampton, compiled from data collected during the 1969, 1970 and 1971 field seasons, explanatory notes and a basic map legend, and an extended map legend that provides more detailed descriptions of certain characteristics of the materials comprising the various map-units, their reaction to change or disturbance, and a hazard index.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 97 Unedited drafts of three surficial geology maps with legend of part of the Mackenzie Valley, N.W.T., comprising NTS numbers 106I,M,N; scale: 1:125,000. Compilations interpreted from aerial photographs and supplemented from field data collected during 1971 by O.L. Hughes, D.A. Hodgson and J. Pilon of the Terrain Sciences Division. These maps show the distribution of surface materials and landforms; map-units are based on the genesis of the material, its morphology and, where appropriate, its texture. The legend contains data on permafrost, ground ice, engineering properties of the surficial materials, vegetation-landform relationships (by S.C. Zoltai, Dept. of Environment) and soils (by W.Pettapiece, Dept. of Agriculture).
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 98

Flight logs and index maps of aerial photographs obtained 1969. The photographs were obtained from an area of 200 square miles located immediately east of Uranium City, Saskatchewan using 70mm, colour, false, and filtered panchromatic photographs:

1/ Total coverage at a scale of 1:54,000, colour, false colour and panchromatic films.
2/ Total coverage at a scale of 1:24,000, colour, and false colour films.
3/ Selected traverses within the area at 1:6,000 scale, colour, false colour, and filtered panchromatic films.

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Prints may be obtained by application to the GSC Library, Ottawa.

OPEN FILE 99

Flight logs and index maps of aerial photographs obtained in 1970. The photography was carried out in Fort Smith and Yellowknife District of Northwest Territories.

1/ Single lines, 80 miles in length flown in an east-west direction with 9" colour film. Fitzgerald sheet NTS 74M at 59°55'N; Fort Smith sheet NTS 75D at 60°48'N; TaltstonLake sheet 75E at 61°14'N, and Snowdrift sheet NTS 75L at 62°14'N.
2/ 9" colour photographs of an area of 40 square miles around Donovan Lake, sheet NTS 75D, Fort Smith.
3/ A north-south section across major rock types in the area of the East Arm of Great Slave Lake, sheet NTS 75L, Snowdrift. 9" colour photographs, 70mm. panchromatic and infrared photographs taken with four cameras using colour separation filters.
4/ An area of 50 square miles around Yellowknife. 9" colour photographs, 70mm. panchromatic and infrared photographs taken with four cameras using colour separation filters. These provide some particularly good examples of the use of colour film for geological purposes.

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Prints may be obtained from Canada Centre For Remote Sensing, 717 Belfast Road, Ottawa, Ontario. K1A 0E4.

OPEN FILE 100

Flight logs and index maps of aerial photographs obtained in 1971. The flights were within the area covered by sheets NTS 85I, Hearne Lake, and NTS 85J, Yellowknife, Northwest Territories. A Wild RC 8 camera was used with Kodak 2445 (Colour Negatives) film. With flight lines a 3-mile intervals, the 1:15,000 scale photography provides 70% coverage of the area.

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Prints may be obtained from Canada Centre For Remote Sensing, 717 Belfast Road, Ottawa, Ontario. K1A 0E4.

OPEN FILE 101 Radioactivity maps and profiles from the GSC gamma-ray spectrometer system relating to an area east and northeast of Fort Smith, Northwest Territories, approximately 71 miles by 185 miles, covering NTS map sheets 75D and 75E, and extending south into sheet 74M. It comprises profiles for 61 flight lines, reproduced at a scale of 1; 500,000, and six contoured maps showing different radioactivity parameters reproduced at a scale of 1:250,000. Flight line spacing is 5 km; data were integrated over approximately 500 ft. sample lengths along the lines.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 102 Tectonic Styles of Northern Yukon Territory and Northwestern District of Mackenzie by D.K. Norris. Unedited report, including 28 pages of text, 5 figures and 1 table, is an analysis of the geological structure in parts of the Yukon Territory and northwestern District of Mackenzie based on field work done in 1962, 1969 and 1970.
This file is now published: as Arctic Geology, Memoir 19. Copies available from GSC Publications Office, Ottawa and Calgary.

OPEN FILE 103 Geological map of that part of Beehive Mountain map-area, Alberta (Fording River, 82 J/2), easthalf), east of the Lewis fault, emended in 1960 by D.K. Norris. Scale: 1 inch to 1/2mile. Inset with map and legend, structure cross-section, small map showing relationship of faults and brief explanatory notes.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 104 Twenty-eight data compilation maps of the following areas in Ontario: Adair, Barnet, Beatty, Bowman, Carr, Cook, Coulson, Currie, Edwards, Frecheville, Hislop, Halloway, Kenning, Knox, Lampugh, Marathon, McCool, Mortimer, Playfair, Rand, Rickard, Steele, Stimson, Sweatman, Taylor, Thackery, Walker, Wilkie, townships (scale: 1 inch to 1/4 mile). These maps were compiled as part of a Special Employment Program and are similar to those of the Timmins Data Series, Ontario Dept. of Mines and Northern Affairs. The maps present data from public files of the Resident Geologist of the Ontario Ministry of Natural Resources at Kirkland Lake, Ontario.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the office of the Resident Geologist, Ontario. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 105

Twenty-eight compilation maps of the following quarter townships of Quebec: Cadillac, N.W.; Clériçy, N.E. and S.W.; Courville; Duverny; La Morandiére; La Pause, S.W.; Preissac, N.W. and S.W.; Roquemaure, S.E. and S.W.; Senneterre; Tavernier, S.E. and S.W., and N.W.; Tiblemont, N.E. (scale: 1 inch to 1,000 feet). These maps were compiled as part of a Special Employment Program and are similar to those of the Timmins Data Series, Ontario Dept. of Mines and Northern Affairs. The maps present data from public files of the Resident Geologists of the Quebec Dept. of Natural Resources at Rouyn-Noranda and Val d'Or.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Offices of the Resident Geologists, Noranda and Bourlamaque. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 106

Preliminary drafts of 16 surficial geology photomosaic maps and a legend (8p.) of part of southern Labrador (13E) by Dr. R.J. Fulton, Mr. D.A. Hodgson, Miss G.V. Minning and Mr. R.D. Thomas, compiled from data collected during the 1969, 1970 and 1971 field seasons. Scale: 1:50,000. These maps show the distribution of surface materials and landforms; map-units are based on the genesis of the material, its morphology, and where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 107

Samples of fossils, suites of petrographic thin sections and analytical reports from wells drilled in the District of Mackenzie and Franklin and the Yukon Territory are in the custody of the Institute of Sedimentary and Petroleum Geology in Calgary. An unedited list of the samples compiled by M.J. Rice gives details of all suites of macrofossils, microfossils, palynological slides, petrographic thin sections and analytical reports which are available for study. Note: The samples are available for examination at the Institute in Calgary only.
Examination Points For List: GSC Libraries in Ottawa, Calgary and Vancouver. Copies of list may be obtained from Riley's Data Share International Limited, Calgary.

Note: This file has now been superseded by Open File 231

OPEN FILE 108 Unedited drafts of three surficial geology maps with legend of part of the Mackenzie Valley, N.W.T., comprising Ontaratue River (NTS 106J), Martin House (NTS 106K) and Travaillant Lake (NTS 106 O) at a scale of L;125,000. Compilations are interpreted from aerial photographs and supplemented from field data collected during 1971 by O.L. Hughes, D.A. Hodgson and J. Pilon of the Terrain Sciences Division. These maps show the distribution of surface materials and landforms; map-units are based on the genesis of the material, its morphology and, where appropriate its texture. The legend contains data on permafrost, ground ice, engineering properties of the surficial materials, vegetation-landform relationships (by S.C. Zoltai, Dept. of Environment) and soils (by W. Pettapiece, Dept. of Agriculture).
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 109 An airborne gamma-ray spectrometry data processing manual giving information of the data processing procedures carried out on data collected by the Geological Survey of Canada gamma-ray spectrometer system. The manual describes eight computer programs which are used to produce computer plotted maps and profiles from original magnetic tapes. The programs are written specifically for the C.D.C. 6400 computer and each program is supplied with typical test data and results.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 110 Airborne Radioactivity Maps and Profiles, Mont Laurier Area, Quebec. The results of a cooperative project between the Quebec Dept. of Natural Resources and the GSC. The data relates to an area approximately 24 x 40 miles, located about 40 miles north of Mont Laurier. The maps cover Chopin Township and Leman Township in Montcalm County, and an adjacent area of similar size in Joliette County. Profiles for 98 flight lines are at a scale of 1:500,000, and seven contoured maps showing different radiometric parameters are at a scale of 1:50,000. Flight line spacing is one-quarter mile, and data were integrated over approximately 500 foot sample lengths along the lines. The data were obtained with the GSC gamma-ray spectrometer system and the flying was completed in 1971. A commentary on the results is included in Report of Activities, Part A (GSC Paper 73-1A) released January 8, 1973 by the GSC.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at released by the Dept. of Natural Resources, Quebec. Copies available at a cost of $7.00 per set of maps from Quebec Dept. of Natural Resources, Quebec.

OPEN FILE 111 Unedited drafts of geological maps with legends of Sawyer Bay (39G), Dobbin Bay (39H & 29G) and Kennedy Channell - Lady Franklin Bay (120 O & 120 C); all parts of the Canadian Archipelago. Geology by J.W. Kerr and R.L. Christie during the 1961 and 1962 field seasons. Scale: 1:250,000.
Now Published: as GSC Maps 1357A, 1358A and 1359A. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 112 Regional geochemical lake bottom sediment and till sampling in the Timmins-Val-d' Or region of Ontario and Quebec. The project was initiated under the Special Employment Plan of the Federal Winter Works Program. It was planned and supervised by E.H.W. Hornbrook and carried out under contract by C.F. Gleeson & Associates Ltd. The objectives of the project were to evaluate various aspects of exploration geochemistry in the clay belt environment of this region; to provide data useful for mineral exploration, and to provide winter employment within the area. The report consists of two large data books containing field records, analytical data, and simple statitistical treatment, together with location maps for the sample sites.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the offices of the Resident Geologists: Noranda, Bourlamaque, Timmins and Kirkland Lake.
Field and analytical data for the study is available in computer processible form at reproduction and mailing cost, either on 80 column punched cards or CDC 6400 generated 7- or 9 track magnetic tape, to be provided by user. Requests to Computer Science Centre, EMR, 588 Booth Street, Ottawa.

OPEN FILE 113 Stratigraphy of Botwood map-area, northeastern Newfoundland, by Harold Williams, Memorial University, 1969. This unedited report consists of a description of the formations and development of stratigraphic nomenclature with 117p. of text.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 114 Jurassic and Cretaceous rocks along the Hope-Princeton Highway and Lookout Road, Manning Park, British Columbia (Supplement to Section 10 of the 24th International Geological Congress Guidebook A03-C03) by J.A. Jeletzky. An unedited, preliminary report consisting of 38 pages of text and 10 figures. Included is a road log with descriptions of the geology at various stops along the Hope-Princeton Highway and Lookout Highway in Manning Park, British Columbia.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from GSC Libraries in Ottawa, Calgary and Vancouver at a charge of $4.00 per copy prepaid.

OPEN FILE 115 Unedited lithologic descriptions of thirty-three measured sections of Carboniferous and Permian strata, northern Yukon Territory by E.W. Bamber. Report involved field seasons of 1962 and 1963.
Now Published: as GSC Paper 72-19. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 116 Results of an overburden drilling project and geochemical program directed by R.G. Skinner during the winter 1971-72 as a federal Special Employment Project.
(a) A 27-page report entitled Drift Prospecting in the Abitibi Clay Belt; Overburden Drilling Program - Methods and Costs, which is available for free distribution.
(b) Hole location maps, stratigraphic profiles, geochemical logs, petrographic descriptions of thin sections of drill chips from bedrock and boulders, and geochemical analyses of bedrock chips.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the offices of the Resident Geologists: Timmins and Kirkland Lake, Ontario; Rouyn-Noranda and Val d'Or, Quebec; Geological Services Office, Dept. of Natural of Natural Resources, Quebec City; Dept. of Natural Resources, Whitney Block, Parliament Buildings, Toronto. Copies of the 12 parts may be obtained by application to the GSC Library, Ottawa.

OPEN FILE (Supplement) 116 Results of an overburden drilling - geochemistry pilot project on the Kam Kotia Property directed by R.G. Skinner during the winter of 1971-72 as part of a Federal Employment Project. This material supplements Open File 116, list above, which contained data from the Abitibi Clay Belt. The data includes 2 hole location maps, 18 stratigraphic profiles, 108 geochemical logs and 32 pages of petrographic description of thin sections of drill chips from bedrock and boulders, geochemical analyses of bedrock chips, and a brief explanatory note.
Examination Points; GSC Libraries in Ottawa, Calgary and Vancouver. Also at the offices of the Resident Geologists: Timmins and Kirkland Lake, Ontario; Dept. of Natural Resources, Rouyn-Noranda and Val d' Or, Quebec; Ministry of Natural Resources, Toronto; Geological Services Office, Quebec City. Copies may be obtained by application to Campbell Corporation Limited, Ottawa.

OPEN FILE 117 Preliminary drafts of TERRAIN CLASSIFICATION AND SENSITIVITY MAPS (consisting of 4 maps and a legend - Scale: 1:250,000) of Mackenzie Delta (107C), Stanton (107D), Cape Dalhousie (107E), and Malloch Hill (97F) compiled by R.L. Monroe. These are the first of a series of "derived" maps designed to illustrat land capability and performance, prepared for the Dept. of Indian and Northern Affairs. They provide information on both surficial geology and bedrock presented as standard map units chosen to portray terrain conditions. The legend accompanying the maps provide information concerning local description, permafrost and ground ice conditions, drainage characteristics, hazards, and an evaluation of the terrain units as sources of construction materials. A performance rating table identifies significant hazards of individual terrain units in coded form, and performance of normal unfrozen material, in both permafrost and non-permafrost sites.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 118 Preliminary draft of a surficial geology map of the Arnprior map-area (31 F/8), Ontario-Quebec at a scale of 1:50,000 by G.V. Minning compiled from data collected during the 1969, 1970 field seasons. The map is accompanied by a legend describing the geological characteristics of the deposits.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies are available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 119 Preliminary draft of a surficial geology and landform map of Aklavik (107 B/E1/2) by V.N. Rampton, compiled from data collected during the 1971 field season, with an attached basic map legend.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 120 Preliminary drafts of TERRAIN CLASSIFICATION AND SENSITIVITY MAPS (consisting of 4 maps and a legend - Scale: 1:250,000) of Demarcation Point (117C), Herschel Island (117D), Blow River (117A), and Aklavik west half (107B), compiled by R.L. Monroe. These are successive maps of a series of "derived" maps designed to illustrate land capability and performance, prepared for Department of Indian and Northern Affairs as part of the Environmental-Social Program, Task Force on Northern Oil Development. They provide information on both surficial geology and bedrock presented as standard units chosen to portray terrain conditions. The legend accompanying the maps provides information concerning local description, permafrost and ground ice conditions, drainage characteristics, hazards, and an evaluation of the terrain units as sources of construction materials. A performance rating table identifies significant hazards of individual terrain units in coded form, and numerically rates the severity of environmental disturbance, performance of newly thawed material, and performance of normal unfrozen material, in both permafrost and non-permafrost sites.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 121 Preliminary drafts of TERRAIN CLASSIFICATION AND SENSITIVITY MAPS (consisting of 6 maps and a legend - Scale: 1:250,000) of Fort McPherson (106M), Arctic Red River (106N), Travaillant Lake (106 O), Martin House (106K), Ontaratue River (106J), and Fort Good Hope (106I), compiled by R.L. Monroe.
These maps are successive maps of a series of "derived" maps designed to illustrate land capability and performance, prepared for Dept. of Indian and Northern Affairs as part of the Environmental-Social Program, Task Force on Northern Oil Development. They provide information on both surficial geology and bedrock presented as standard units chosen to portray terrain conditions. The legend accompanying the maps provides information concerning local description, permafrost and ground ice conditions, drainage characteristics, hazards, and an evaluation of the terrain units as sources of construction materials. A performance rating table identifies significant hazards of individual terrain units in coded form, and numerically rates the severity of environmental disturbance, performance of newly thawed material, and performance of normal unfrozen material, in both permafrost and non-permafrost sites.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies may be obtained from Riley's Data Share International Limited, Calgary.

OPEN FILE 122 The Cambrian manganese deposits of southeastern Newfoundland, by James W. Scott. This unedited report was written in 1952 describing a 1951 field season and contains 29 pages and an index map, providing information on the thickness, distribution, grade and availability of the deposits. The work was carried out under the supervision of R.D. Hutchinson of the Geological Survey of Canada and is referred to in its Memoir 275.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 123 Manuscript and map of the McBride map-area, British Columbia (93H) by R.B. Campbell and E. Mountjoy. This unedited report describes the work carried out during the field seasons of 1966 and 1967 and has a scale of 1 inch to 2 miles.
Now Published: as GSC Paper 72-35 and GSC Map 1356A. Copies availablefrom GSC Publications Office, Ottawa.

OPEN FILE 124 Radioactivity maps and profiles from the GSC Gamma-ray spectrometer system relating to an area north of Great Slave Lake on NTS maps sheets 75L, 85I and 85J and the islands of the East Arm of Great Slave Lake. It comprises profiles for 67 flight lines, reproduced at a scale of 1:500,000, and seven contour maps showing different radiometric parameters reproduced at a scale of 1:250,000. Flight line spacing is 2.5 km; data were integrated over approximately 500 foot sample lengths along the lines.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Office of the Resident Geologist, Indian and Northern Affairs, Yellowknife, N.W.T. Copies are available from Campbell Corporation Limited, Ottawa.

OPEN FILE 125 Preliminary drafts of TERRAIN CLASSIFICATION AND SENSITIVITY MAPS consisting of 4 maps and a legend Scale: 1:250,000 of NTS 96B (Blackwater Lake), 96E (Norman Wells), 96F (Mahoney Lake), and 96G (Fort Franklin), compiled by R.L. Monroe. These maps are part of a series of "derived" maps designed to illustrate land capability and performance, prepared for Dept. of Indian and Northern Affairs as part of the Environmental Social Program, Task Force on Northern Oil Development. They provide information on both surficial geology and bedrock presented as standard map units chosen to portray terrain conditions. The legend accompanying the maps provides information concerning local description, permafrost and ground ice conditions, drainage characteristics, hazards, and an evaluation of the terrain units as sources of construction materials. A performance rating table identifies significant hazards of individual terrain units in coded form, and numerically rates the severity of environmental disturbance, performance of newly thawed material, and performance of normal unfrozen material, inboth permafrost and non-permafrost sites.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 126 Manuscript map showing thickness of recent mud in Beaufort Sea using Canadian Hydrographic Service Chart 7080 (Demarcation Point to Cape Bathurst) at a scale of 1:500,000 as a base map. The data was determined from soundings taken by C.H.S. Parizeau in 1970-71 and C.H.S. Baffin in 1970.
Examination Points: GSC Libraries in Ottawa, Calgary, and Vancouver. Copies may be obtained from Campbell Quickprint, Ottawa; West Canadian Graphic Industries Limited, Calgary; and Riley's Data Share International Limited, Vancouver.

OPEN FILE 127 Moving average-residual anomaly maps showing distribution of each of the following eight elements: Cu, Zn, Pb, Ni, As, Ag, Mo and Mn in lake bottom sediments for the two areas covered by Open File 112. (Timmins - Val d'Or). The information comprises 16 maps and is the second phase of data released following the initial release of project data and location maps on July 31, 1972 as Open File 112. The project was planned and supervised by E.H.W. Hornbrook and carried out under contract by C.F. Gleeson & Associates Limited. It was initiated under the Special Employment Plan of the federal Winter Works Program and the objectives were to evaluate various aspects of exploration geochemistry in the clay belt environment of the region.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Offices of the Resident Geologists, Timmins and Kirkland Lake, Ontario; and Quebec Dept. of Natural Resources, Noranda and Bourlamaque, Quebec.
Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 128 The file consists of a 13-page report, 4 maps and 7 figures illustrating:
1/ the stratigraphy, ice content of sediments, borehole geophysical logs (neutron, gamma-gamma, caliper, and natural gamma) and uphole seismic velocities obtained from four boreholes drilled at Tuktoyaktuk, and
2/ the results of surface refraction profiling and uphole wave-front profiling adjacent to the holes.
The work was conducted by J. Wyder, J. Hunter and V. Rampton during the 1971 field season.
Examination Points: Copies on view at the GSC Libraries in Ottawa, Calgary and Vancouver.
Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 129 Results of a lake-sediment geochemical sampling program conducted in 1972 over the Yellowknife greenstone belt (85 J/8, 85 J/9), the Indian Lake greenstone belt (85 O/14, 86 B/6) and portions of the Cameron River and Bealieu River greenstone belts (85I/10, 85 I/11, 85 I/14, 85 I/15 and 85 I/16, 86 P/1, 86 P/2, 86 P/8). A total of 1010 stations were occupied at 1 to 5 mile intervals. The file consists of: (a) A report by D. Nickerson, P. Eng., contractor for Indian Affairs and Northern Development, describing the method of survey and tabulating the results. (b) 14 maps at a scale of 2 inches to 1 mile which show sample locations and observed values for Cu, Pb, Zn, Ag, Ni, Co, Mn and Fe, the regional geology and mineralized localities. Analyses for As and Sb have not yet been compiled.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the offices of the Residents: Yellowknife and Whitehorse and the Library, Indian and Northern Affairs in Ottawa.
Copies available from Resident Geologist, Yellowknife, N.W.T.

OPEN FILE 130 Sekwi Mountain map-area (105P), Yukon Territory and District of Mackenzie, by S.L. Blusson.
Blackline geological map, scale 1:250,000, and 17 page report.
Now Published: as GSC Paper 71-22. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 131 Preliminary drafts of TERRAIN CLASSIFICATION AND SENSITIVITY MAPS (consisting of 6 maps and legend Scale: 1:250,000), of Kakisa River (85D), Sibbeston Lake (95G), Root River (95K), Wrigley (95O), Dahadinni River (95N), and Bulmer Lake (95I), compiled by R.L. Monroe. These are successive maps of a series of "derived" maps designed to illustrate land capability and performance, prepared for Dept. of Indian and Northern Affairs as part of the Environmental Social Program, Task Force on Northern Oil Development. They provide information on both surficial geology and bedrock presented as standard map-units chosen to portray terrain conditions. Legend material accompanying the maps provides information concerning local description, permafrost and ground ice conditions, drainage characteristics, hazards, and an evaluation of terrain units as sources of construction materials. A performance rating table identifies significant hazards of individual terrain units in coded form, and numerically rates the severity of environmental disturbance, performance of newly thawed material, and performance of normal unfrozen material, in both permafrost and non-permafrost sites.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 132 Preliminary drafts of TERRAIN CLASSIFICATION AND SENSITIVITY MAPS, consisting of 3 maps, and a legend - Scale: 1:250,000 of NTS 106 G (Upper Ramparts River), NTS 106H (Sans Sault Rapids), and 96 D (Carcajou Canyon), compiled by R.L. Monroe. These are successive maps of a series of "derived maps" designed to illustrate land capability and performance, prepared for Indian and Northern Affair Dept. as part of the Environmental-Social Program, Task Force on Northern Oil Development. They provide information on both surficial geology and bedrock presented as standard map-units chosen to portray terrain conditions. The legend accompanying the maps provides information concerning local description, permafrost and ground ice conditions, drainage characteristics, hazards, and an evaluation of terrain units as sources of construction materials. A performance rating table identifies significant hazards of individual terrain units in coded form and numerically rates the severity of environmental disturbance, perforance of newly thawed material and performance of normal, unfrozen material in both permafrost and non-permafrost sites.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 133 Geoscientific study of an area north of Montreal, by D.A. St.-Onge, M. Kugler and F. Morin. During 1971-72, the Dept. of Regional Expansion and Economics funded a joint Geological Survey of Canada/Quebec Dept. of Natural Resources project, designed to study geoscientific aspects of a 500 square mile area centred on the new Montreal airport at Ste. Scholastique. "Le Manuel de l'Utilisateur" by Miss M. Kluger is part of the G.S.C. contribution to the project. The report describes how the information on physical properties of unconsolidated deposits was collected in the field and the method of storing it in a data bank. Nature of the information and type of computer output (maps and listings) are explained and illustrated. Twenty-two computer maps for the Ste-Thérese area (1:25,000) illustrate the nature of the information, the versatility of the system and how planners can request information from the data bank. The text is only in French.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Geological Services Office, Quebec Dept. of Natural Resources, Quebec.
Copies not available for sale.

OPEN FILE 134 Preliminary drafts of 8 surficial geology maps, by R.W. Klassen and J.A. Netterville, of part of northern Manitoba, NTS 54C (Hayes River) and 54D (Kettle Rapids), at a scale of 2:inches to 1 mile with an explanatory legend commenting on origin, topographic expression, assumed thickness, organic cover and permafrost relative to the various map-units, and descriptions of exposures of unconsolidated deposits. Also includes a 24 page report entitled "Descriptions of exposures of unconsolidated deposits at locations shown on photogeologic mosaics of the Hayes River (54C) and Kettle Rapids (54D) area, Manitoba". Field work was done in 1972.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Campbell Quickprint, Ottawa.

OPEN FILE 135 The file consists of two maps, the field work for which was done in the 1972 summer season by an Indian Affairs and Northern Development field party and Mr. Shegelski under contract to Indian Affairs and Northern Development.

1/ Map of the Camsell River Silver District, N.W.T., by R.J. Shegelski and J.D. Murphy, at a scale of five inches to one mile, with 16p. of text by R.J. Shegelski.

2/ Map of the Rainy Lake NTS area 86 E/9 at a scale of 1/2 inch to one mile with marginal notes by J.D. Murphy.

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the office of the Library, Dept. of Indian and Northern Affairs, Ottawa; and the Offices of the Resident Geologists: Yellowknife and Whitehorse. Copies available from the Resident Geologist, IAND, Yellowknife.

OPEN FILE 136 A report on the subsurface lower Paleozoic stratigraphy in northern central Alberta by D.C. Pugh involving study of gamma-ray and resistivity logs as well as lithological study of drill cuttings from a total of 1,529 wells. The work was done during 1970 and 1971.

Now Published: as GSC Paper 72-12. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 137 A report on the subsurface stratigraphy and structure of Lower Cretaceous sedimentary rocks of the Waterton-Castle River area, Alberta by C.J. Havard. It includes a study of subsurface mechanical logs and samples from wells drilled in the Waterton, Princher Creek and Lookout Butte gas fields. The field work was performed in 1967 and 1971 and the reports consists of 10 pages of text, 10 figures and 8 cross-sections.

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies are not available for sale.

OPEN FILE 138 An unedited report on palynologic analyses of rocks ranging in age from Late Albian to Pleistocene from the Grand Banks, Atlantic Continental Margin by G.L. Williams, (Atlantic Geoscience Centre) and W.W.Brideaux, ISPG, Calgary. It is based on detailed palynologic analyses of 104 samples from 8 core-holes drilled in 1965.

Now published: As GSC Bulletin 236. Copies available from Publications Distribution Office, GSC, Ottawa.

OPEN FILE 139 Five unedited geological maps of parts of the Canadian Arctic Archipelago accompanied by a legend and 5 pages of notes of Prince Alfred (59B), Resolute (58F), Baillie-Hamilton Island (58G), Lowther Island (68E) and McDougall Sound (68H) map-areas, Arctic Islands compiled by R. Thorsteinsson. Field work by R. Thorsteinsson and J.W. Kerr, 1965 and R. Thorsteinsson, 1968, 1971 and 1972. Scale: 1:125,000.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 140 Radioactivity maps and profiles from the GSC gamma-ray spectrometer system relating to the area southeast of Port Radium, Northwest Territories, in the Bear and Slave Provinces of the Canadian Shield, covering map sheets Winter Lake (86A); Indin Lake (86B); Hardisty Lake (86C); Calder River (86F); Redrock Lake (86G); and Point Lake (86H). The file is comprised of profiles of east-west flight lines, reproduced at a scale of 1:500,000, and seven contoured maps showing levels of total gamma-ray activity, uranium, thorium, potassium and U/Th, U/K ratios reproduced at a scale of 1:250,000.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Office of the Resident Geologist, Yellowknife, N.W.T. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 141 Film reports and index map relating to aerial colour photography flown within the area east of Great Slave Lake, N.W.T. (NTS 85F). The photography was obtained in 1972 with a Wild RC 10 camera using Kodak 2445 (colour negative) film. The film was exposed to provide the best possible colour representation of rock surfaces. A number of photographs include orange or red coloured zones which might be of economic interest. Total stero-coverage of the area is available at an approximate photo scale of 1:15,000.
Examination Points: Film reports, index maps and prints of photography may be examined in the Canada Centre for Remote Sensing, 717 Belfast Road, Ottawa, Ontario. K1A 0E4. Index maps may be viewed in the GSC Libraries in Ottawa, Calgary and Vancouver.

OPEN FILE 142 Preliminary drafts of eight surficial geology maps, by R.W. Klassen and J.A. Netterville, of part of northern Manitoba, NTS 63 O (Nelson House) and 64B (Uhlman Lake), at a scale of 1 inch to 2 miles with an explanatory legend commenting on origin, topographic expression, assumed thickness, organic cover and permafrost relative to the various map-units. Field work was done in 1972.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 143 Reconnaissance studies of Proterozoic and Cambrian stratigraphy, lower Mackenzie River area (Operation Norman), District of Mackenzie, consisting of an unedited stratigraphic report. Based on work done in 1968, 1969 and 1970 by J.D. Aitken, R.W. Macqueen and J.L. Usher.
Now Published: as GSC Paper 73-9. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 144 Preliminary drafts of TERRAIN CLASSIFICATION AND SENSITIVITY MAPS consisting of 1 map and a legend. Scale: 1:250,000 of NTS 96 C (Fort Norman), compiled by R.L. Monroe. This file is a successive map in a series of "derived" map designed to illustrate land capability and performance, prepared for Dept. of Indian and Northern Development as part of the Environmental Social Program, Task Force on Northern Oil Development. Information is provided on both surficial and bedrock geology presented as standard map units chosen to portray terrain conditions. The legend accompanying the map provides information concerning local description, permafrost and ground ice conditions, drainage characteristics, hazards and an evaluation of the terrain units as sources of construction materials. A performance rating table identifies significant hazards of individual terrain units in coded form and numerically rates the severity of environmental disturbance, performance of newly thawed material and performance of normal unfrozen material, both in permafrost and non-permafrost sites.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 145 A revision of part of Open File 132, one of the series TERRAIN CLASSIFICATION AND SENSITIVITY MAPS, consisting of 1 map and legend. Scale: 1:250,000 of NTS 96D (Carcajou Canyon), compiled by R.L. Monroe.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 146 Exploration for Archean Polymetallic Sulphide Deposits in Permafrost Terrain: An integrated geological/geochemical technique; Kaminak Lake area, District of Keewatin. The paper consists of 54 pages of text, 23 figures (i.e. 21, as no. 11 and 5 are excluded) and 3 tables, resulting from work done in the Ennadai Belt (Spi Lake and Kaminak Lake areas) by R.H. Ridler and W.W. Shilts from 1970 to 1973. The total area concerned is bounded by Lat. 61°45'; 62°30'N and Long. 96°30'W and 94°15'W. The exhalite metallogeny and volcanic stratigraphy of the Archean bedrock is used to interpret anomalous areal distribution of patterns of copper and zinc in tills. Anomalous concentrations of base metals are indicated over and along economically significant exhalite zones in major felsic volcanic concentrations similar to the Noranda area. Gold analyses of exhalites, ranging into ore grades, confirm the economic potential. Previously unrecognized exploration targets are indicated. The new method by which bedrock-related base metal anomalies are derived from weathered till in the active zone above permafrost is described.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Office of the Resident Geologist, Yellowknife, N.W.T. Copies available from K.G. Campbell Corporation Limited, Ottawa and Orhan's Reproductions and Photomapping Limited, Calgary and Riley's Data Share International Limited, Vancouver.

OPEN FILE 147 A maps showing structural contours on the top of the Precambrian surface from the Slave River sheet (NTS 85), by G.K. Williams. It covers the area between latitudes 60 to 64 degrees north and longitudes 112 to 120 degrees west, based on information from well data to March 1971.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 148 Unedited report on Mesozoic and (?) Tertiary rocks of Quatsino Sound, Vancouver Island, British Columbia by J.A. Jeletzky. The file consists of 246 pages of text, appendix of 49 measured sections and 18 figures. Based on field work done in 1954, 1968, and 1969.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 149 Unedited report showing the structural geometry and geological history of the Northern Cordillera, by D.K. Norris. The file consists of 38 pages of text, 3 figures, 1 correlation chart and 8 plates (xerox copies only), and is based on field work done in 1962, 1969, and 1970 and 1971 and 1972.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.
Note: This file has been printed in the CSEG Proceedings. 1973 National Convention, Calgary, April/73.

OPEN FILE 150 Preliminary drafts of eight surficial geology photomosaic maps, by R.W. Klassen and J.A. Netterville, of part of northern Manitoba, NTS 63P (Sipiwesk) and 64A (Split Lake), at a scale of 1 inch to 2 miles and an explanatory legend with comments on origin, topographic expression, assumed thickness, organic cover and permafrost relative to the various map-units. Field work done in 1972.
Examination Points: GSC Libraries in Ottawa, Calgary, and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 151 Unedited report entitled "TIPS ON ORGANIZING ARCTIC GEOLOGICAL FIELD WORK", by J. William Kerr. The report is a simple guide outlining ways of dealing with both the everyday and the unusual problems of field work in the Arctic and is based on the many years of experience both of the author and other contributors.
Now Published: as GSC Paper 74-12. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 152 Unedited geological report on hills, 1,2 and 3 of McGillivrary Creek Coal and Coke Company's property, north of Coleman, Alberta, by R.J.W. Douglas. The file is based on field work done prior to 1949.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies will not be available for sale.

OPEN FILE 153 An unedited geological report on the distribution and correlation of the three oldest Palaezoic rock units in the Boothia Peninsula region, Canadian Arctic Archipelago, by R.L. Christie. The file is based on work done on Operation Prince of Wales in the summer of 1962.
Now Published: as GSC Paper 73-10. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 154 Continuous reflection seismic profiling data from continental margin west of British Columbia. Data on 105mm Micromaster negatives of about 1150 kilometers of reflection profiles using 40 x 300 cubic inch air gun source, single channel recording. A track chart and listing of navigational fixes is included. The area includes the continental shelf, slope and rise from Dixon Entrance to southern Vancouver Island. Index maps indicating the lines along which the profiles were taken are included.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies are available from Vancal Reproductions Limited, Vancouver.

OPEN FILE 155 Terrain Maps - Mackenzie Valley: Preliminary drafts of four surficial geology and geomorphology maps with legend of part of the Mackenzie Valley comprising parts of Fort Norman (96C); Carcajou Canyon (96D); Norman Wells (96E) and Sans Sault Rapids (106H) map-areas at a scale of 1:125,000. Manuscripts were prepared by P.T. Hanley and are based on aerial photograph interpretations by P.T. Hanley, O.L. Hughes, D.A. Hodgson and J. Pilon supplemented by field data collected by O.L. Hughes, P.T. Hanley, D.E. Lawrence, D.A. Hodgson, J. Pilon and P.J. Kurfurst from 1969 to 1972. The maps are a revision and reinterpretation of those issued previously as Open File 26, released May 25, 1970. They show the distribution of surface materials and landforms; map-units are based on the genesis of the material, its morphology, and where appropriate, its texture. The legend contains data on permafrost, ground ice, engineering properties of the surficial materials, vegetation-landform relationships (by S.C. Zoltai, Dept. of Environment) and soils (by W.W. Pettipiece, Dept. of Agriculture).
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 156 Preliminary drafts of 16 surficial geology maps and a 4 page legend of the valley bottom of parts of the Columbia River Valley from Donald to Revelstoke, British Columbia, covering parts of NTS 82 M/1(E), 82 M/8(E and W), 82 M/10(E), 82 M/15(E), 82 M/16(E), 82 N/6(E and W), 82 N/11(E and W), 82 N/12(E), 82 N/13(E and W), 83 D/1(E and W) and 83 D/2(E). These maps, at 1:50,000 scale, were compiled by R.A. Achard based on field work in 1969-1970.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 157 Preliminary drafts of TERRAIN CLASSIFICATION AND SENSITIVITY MAPS (consisting of 5 maps and 1 sheet of legend material. Scale: 1:250,000) of NTS 85E (Mills Lake); NTS 95A (Trout Lake); NTS 95B (Fort Liard); NTS 95J (Camsell Bend) and NTS 95H (Fort Simpson), compiled by Miss R.L. Monroe. These are successive maps of a series of "derived" maps designed to illustrate land capability and performance, prepared for Indian and Northern Affairs Dept. as part of the Environmental-Social Program, Task Force on Northern Oil Development. They provide information on both surficial geology and bedrock, presented as standard map units chosen to portray terrain conditions. Legend material accompanying the maps provides information concerning local description, permafrost and ground ice conditions, drainage characteristics, hazards and an evaluation of terrain units as sources of construction materials. A performance rating table identifies significant hazards of individual terrain units in coded form and numerically rates the severity of environmental disturbance, performance of newly thawed material and performance of normal, unfrozen material, in both permafrost and non-permafrost sites.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 158 Terrain Maps - Mackenzie Valley: Preliminary drafts of eleven surficial geology and geomorphology maps and a legend of part of the Mackenzie Valley comprising Kakisa River (85D); Mills Lake (85E), Trout Lake (95A); Fort Liard (95B); Sibbeston Lake (95G), Fort Simpson (95H), Bulmer Lake (95I), Camsell Bend (95J), Root River (95K), Dahadinni River (95N), and Wrigley (95 O) map-areas at a scale of 1:125,000, compiled by N.W. Rutter, A.N. Boydell, G.V. Minning and J.A. Netterville based on field work done in 1971 and 1972. Maps for Mills Lake (85E), Trout Lake (95A), Fort Simpson (95H), and Camsell Bend (95J) are a revision of those issued previously on Open File 93 released May 23, 1972.
These maps show the distribution of surface materials and landforms; map-units are based on the genesis of the material, its morphology and, where appropriate, its texture. The legend contains data on permafrost, ground ice, engineering properties of the surficial materials and on soils and vegetation (C. Tarnocai, Dept. of Agriculture).
Examination Points: GSC Libraries in Ottawa, Calgary, and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 159 Unedited geological map at a scale of 1:125,000 of Amund Ringnes Island and Haig-Thomas Island, District of Franklin (parts of 59C, 59F, 69D and 69E) accompanied by a legend and table of formations. Geology by H.R. Balkwill, K.J. Roy, W.V. Sliter and W.S. Hopkins based on field work done in 1971 and 1972.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 160 An unedited report entitled "Cavendish Township Drilling Program, 1973" by D.A. Williams, K.O. Stangl, W.J. Scott and A.V. Dyck, consisting of 7 pages of text, 1 geology map, 3 geology cross-sections and 33 drill logs. The report is a result of the recently completed 1973 Winter Works Drilling Program carried out on the geophysical test range in Cavendish Township, Ontario. A total of 33 holes of an average length of 100 feet and plunge of 45° were drilled using IEX core-drilling equipment during the months of January to May. A summary of the drilling operation and the geology of the test grid are included.
Now Published: as GSC Paper 74-62. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 161 Unedited geology report entitled "Reconnaissance Geology of Aishihik Lake, Snag, and part of Stewart River map-areas, west-central Yukon", by D.J. Tempelman-Kluit. The file consists of three maps: Aishihik Lake (115H), Stewart River (115 O, 115N E/1/2), Snag (115J,K). Scale: 1:250,000. Report covers field work carried out during 1970-1972.
NOW Published: as GSC Paper 73-41 and GSC Maps 16-1973, 18-1973 and 17-1973. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 162 A non-linear least squares computer program (49 pages) for the analyses of magnetic anomalies produced by either two or three dimensional sourfes, developed by P.H. McGrath, The computer listing includes sample out-put for a model thick plate. A generalized description of the method was published in Geophysics, Vol. 38, no. 2, 1973, page 349-353, by Peter H. McGrath and Peter J. Hood, with the title, "An Automatic Least-Squares Multimodel Method for Magnetic Interpretation".
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 163 Preliminary drafts of five surficial geology maps with legend of the valley bottom parts of the Canoe River Valley from the Columbia River to Valemount, British Columbia, covering parts of NTS 83 D/7 (E and W), 83 D/10 (W), 83 D/11(E), and 83 D/14(E). These maps, at 1:50,000 scale, were compiled by R.A. Achard based on field work in 1969-1970. The material complements that contained in Open File 156 released in June 1973.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 164 Volcanism and Volcanic Rocks: This item consists of somewhat abbreviated versions of 16 seminar talks presented at the Geological Survey during the winter of 1972-73. 182 pages illustrated by numerous drawings and photographs.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from GSC Library, Ottawa. Cost: $1.50.

OPEN FILE 165 Preliminary draft of compilation of the geology of parts of British Columbia and Washington, NTS 92 (Fraser River) at a scale of 1:1-million, with accompanying legend. British Columbia geology compiled by J.A. Roddick, J.E. Muller and A.V. Okulitch. Washington geology compiled by A.V. Okulitch. A hand-coloured copy of the map will be available for inspection at the Vancouver Office.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 166 Preliminary draft of compilation of the geology of parts of British Columbia and Alaska, NTS 103 (Skeena River) at a scale of 1:1-million, with accompanying legend. British Columbia geology compiled by W.W. Hutchison and A.V. Okulitch. Alaskan geology compiled by H.C. Berg. A hand-coloured copy of the map will be available for inspection at the Vancouver Office.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 167 Terrain Maps - Mackenzie Valley: Preliminary drafts of three surficial geology and geomorphology maps with legends of part of the Mackenzie Valley and northern Yukon Territory comprising Trail River (106L), Bell River (116P) and part of Old Crow (116 O and 116N(E1/2) map-areas at a scale of 1:125,000, prepared by O.L. Hughes and J. Pilon and based on aerial photographs interpretation supplemented by field data collected by O.L. Hughes, J. Pilon, J.J. Veillette, S.C. Zoltai and W.W. Pettapiece, 1972. These maps show the distribution of surficial geology material and landforms and are accompanied by two legends, one for areas of unconsolidated and glacial materials and the other for landscape developed on bedrock and weathered detritus. For areas of unconsolidated materials, map-units are based on the genesis of the material, its morphology and its texture. For areas of bedrock and weathered bedrock, map-units are based on major physiographic form, lithology, character of detritus and slope distribution. Additional data contained in the legends relate to permafrost ground ice, engineering characteristics of surficial materials, vegetation-landform relationships (S.C. Zoltai, Dept. of Environment) and soils (W. Pettapiece, Dept. of Agriculture).
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 168 A field technique for sieving coarse granular material, by D.E. Lawrence and D.F. Van Dine. This 14-page report describes a technique developed to permit rapid and fairly accurate grain size analysis of coarse granular material (4.75 - 75 mm) during a granular resource inventory in the Mackenzie Valley.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from GSC Publications Office, Ottawa. Cost: $0.50

OPEN FILE 169 Federal-Saskatchewan Reconnaissance Airborne Radioactivity Profiles: The results of a cooperative project between the Dept. of Northern Saskatchewan of the Saskatchewan Government and the Geological Survey of Canada. The material consists of: - Profiles showing integral count, uranium, thorium, potassium and U/TH, U/K and TH/K ratios plotted at a scale of 1:250,000 for sixteen east-west flight lines at 50 kilometre line spacing, between 53°N and 60°N over northern Saskatchewan, and - seven maps at a scale of 1:1,000,000 covering the complete survey area showing profiles for each of the radioactivity parameters plotted along the flight lines.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from the Regina and La Ronge Offices, Saskatchewan.

OPEN FILE 170 Unedited report entitled "Geology and Mineral Deposits of Alert Bay-Cape Scott map-area, Vancouver Island, British Columbia (92L - 102I)", by J.E. Muller, K.E. Northcote and D. Carlisle. The report consists of 77 pages of text, tables and figures; also map 4-1974.
Now Published: as GSC Paper 1974-8 and map 4-1974.

OPEN FILE 171 Deroo, G., Roucache, J., et Tissot, B; Institut Francais du Pétrole, Paris. Etude Geochemique du Canada Occidental, Alberta.
An unedited internal preliminary report by the Institut Francais du Pétrole, Paris, on part of the joint hydrocarbon-geochemical study with the Geological Survey of Canada of the Western Canada Sedimentary Basin. The report, dealing with 70 oil and 135 rock analyses from Mesozoic and Paleozoic strata of central Alberta in the reef trend between Leduc-Woodbend and Homeglen-Rimbey, includes 23 pages of text, 5 tables and 53 illustrative figures. The study was based on work done in 1971-72. The report is in French only.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 172 Quelques analyses physiques des sols-Méthodes de terrain par Fernand Morin. Cet ouvrage, essentiellement pratique, â pour but de décrire un certain nombre d'analyses des sols et s'adresse principalement aux étudiants et techniciens qui doivent, dans un laboratoire de terrain, assurer l'analyse de nombreaux échantillons. En vente au bureau des Publications, Commission géologique du Canada. Prix: $1.00.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver.

OPEN FILE 173 Release of airborne INPUT survey data flown in the Project Pioneer area, Manitoba, in 1968. It contains data from five small survey areas, a total of 1,300 line-km (800 line-miles), at 0.8 km (0.5 mile) spacing located on NTS map sheets 62 P/1; 52 M/3,4; and 52 L/14. The file consists of four flight path recovery maps at a scale of 1:50,000. The file is accompanied by a manuscript of a paper entitled "An INPUT survey in the project Pioneer area, Manitoba", by A.V. Dyck, A. Becker and L.S. Collett which was presented at the 43rd Annual International Meeting of the Society of Exploration Geophysicists in Mexico City, Mexico D.F. on October 23, 1973.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Office of the Manitoba Mines Branch, Room 901 Norquay Building, Winnipeg, Manitoba. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 174

Preliminary draft of 1:1,000,000 geological atlas sheets of Eureka Sound and Robeson Channel area, Canadian Arctic Islands (NTS 560, 340 and Canadian part of 120), by H.P. Trettin. Unedited manuscript, based on information published prior to April 1973, as well as some unpublished information obtained by officers of the Geological Survey of Canada, covering Axel Heiberg and Ellesmere Islands north of 80° Latitude and comprising the following items:

1/ Geological compilation plotted on an enlarged version of the original 1:1,000,000 sheets.
2/ Sketch index map showing origin of source material.
3/ Legend. 4/ Two tectonic correlation charts. 5/ Map showing structural subdivisions of map-areas.
6/ Map showing regional setting and tectonic subdivisions of Arctic Islands.
7/ Text consisting of 15 pages of descriptive notes.

Hand coloured copies of the maps and charts will be available for inspection at the Calgary Office.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 175

The following short papers were released as an open file as they contained material of possible economic interest which was discussed at the meetings of the Yukon and Northwest Territories' Chamberoff Mines in 1973. This material is now published as GSC Paper 74-1 Part A. (Report of Activities).

1/ Watterson Lake (west half) and Ferguson Lake (west half) map-areas, District of Mackenzie; K.E. Eade and F.W. Chandler.
2/ Geology of the Indin Lake area (86B), District of Mackenzie; R.A. Frith, Rosaline Frith, H. Helmstaedt, J. Hill and R. Leatherbarrow.
3/ Bear Province lithogeochemical survey; R.G. Garrett.
4/ Volcanism and plutonism, Sloan River map-area (86K) Great Bear Lake, District of Mackenzie; P.F. Hoffman and M.P. Cecile.
5/ Archean volcanic studies in the Slave-Bear Province: M.B. Lambert.
6/ Structural and stratigraphic studies in the northern Canadian Cordillera; D.K. Norris.
7/ Penrhyn Group Metamorphic Complex, Melville Peninsula, District of Franklin; J.E. Reesor.
8/ Gamma-ray spectrometry investigations 1973; K.A. Richardson and B.W. Charbonneau.
9/ Volcanic rocks of the Prince Albert Group; Mikkel Schau.
10/ Volcanic stratigraphy and metallogeny of the Kaminak Group, Spi Lake area, District of Keewatin; R.H. Ridler.
11/ Stratigraphy and structure of Pelly Mountains; D. Tempelman-Kluit; G. Abbott and B. Read.
12/ Follow-investigations on the Bear-Slave geochemical operation; E.M. Cameron and C.C. Durham.
13/ Geological Reconnaissance of Northern Melville Peninsula, District of Keewatin (Parts of 47A,B,C,D); W.W. Heywood.
14/ Geology of the Calder River map-area, District of Mackenzie (86F); J.C. McGlynn.
15/ Paragneisses of the Prince Albert Group; F.H.A. Campbell.
16/ Drift prospecting in the Ennadai-Rankin Inlet Greenstone Belt, District of Keewatin; W.W. Shilts.

Copies are available at the GSC Publications Office, Ottawa.

OPEN FILE 176 Summary report on the Triassic rocks in the Rocky Mountain Foothills and Front Ranges of west-central Alberta and southeastern British Columbia between Athabasca River and Crowsnest Pass, by D.W. Gibson, The report includes nomenclature, stratigraphy and sedimentary petrography as well as the author's conclusions regarding paleoenvironments and history of deposition. The report results from work done in 1966, 1967 and 1971.
Now Published: as GSC Bulletin 230. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 177 An unedited report describing the stratigraphy, facies and paleogeography of Jurassic and Cretaceous rocks of northern Yukon Territory and District of Mackenzie, N.W.T. (NTS 116 I, J, K, L, O, P and 117 A), by J.A. Jeletzky. The field work was done in 1973.
Now Published: as GSC Paper 74-10. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 178 Quatre cartes de dépôts de surface et une légende d'une région sise à l'est de la baie James ont été dressées par J.S. Vincent. Ces cartes: 31 E/10 (Riviére à la Truite), 33 E/11 (Anse Aquatic), 33 E/14 (Stromness Island) et 33 E/15 (Fort George) sont à l'echelle du 1:50,000 et font parties d'une série de 19 cartes couvrant le secteur aval de la riviére La Grande et région qui est située part et d'autre de la nouvelle route entre la riviére Eastmain et la riviére La Grande. Les cartes donnent une idée de la répartition des dépôts du Quaternaire et des différentes formes de terrain, et, sont accompagnées d'une légende qui en plus de fournir des renseignements sur la genése, la topographie, la texture, l'utilité comme matériau de construction, l'épaisseur approximative et la qualité du drainage des differents dépôts, donne une bréve description du tapis végetal et de la distribution du pergélisol. La légende énumére également les processus actifs qui agissent sur chaque unité géologique et donne une idée des effets possibles, pouvant résulter d'activités humaines telles que la construction de routes ou autres grands travaux. Les relevés sur le terrain ont été effectués au cours de l'été 1973. Une carte plus détaillée des dépôts du Quaternaire de la région de l'embouchure de la riviére La Grande a également été dressée par R.G. Skinner et J.S. Vincent. Cette carte, à l'echelle (1 pouce égale 2,640 pieds) fournit des renseignements sur la nature et la direction du transport des sédiments et sur l'écoulement de la riviére.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

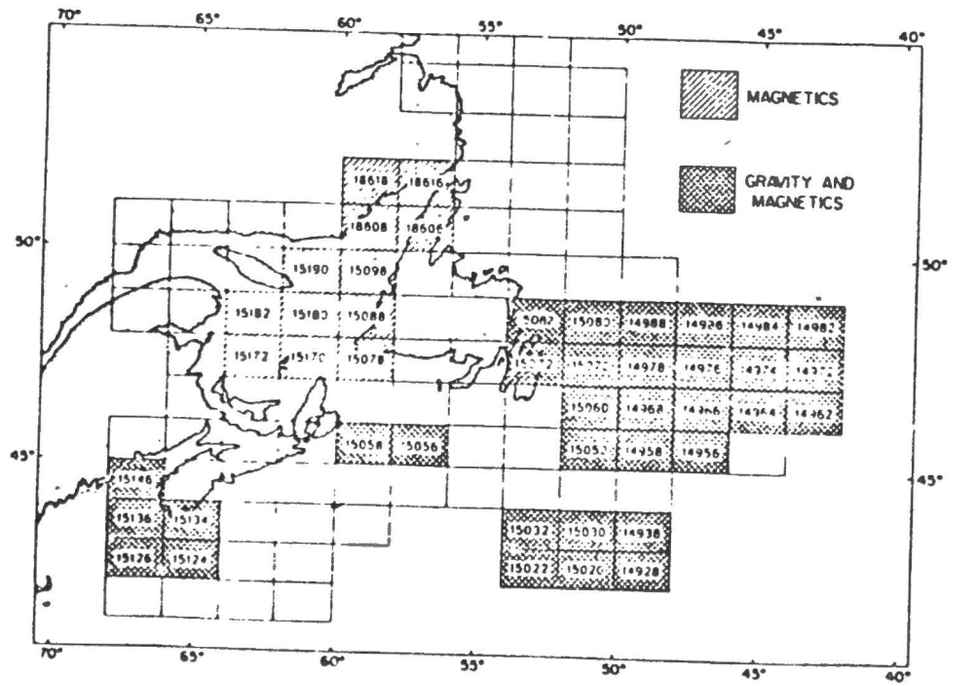
OPEN FILE 179 A preliminary geological map of the Rankin Inlet (55 K/16) area at a scale of 1:31,680 has been prepared by P.J. Laporte and S.K. Frape for Indian and Northern Affairs Dept. The map shows the outcrop pattern and the mineral occurrences of the district as well as the geology. Descriptive notes are in the margin of the map.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Offices of the Resident Geologists: Yellowknife, N.W.T. and Whitehorse, Yukon. Copies available from the Resident Geologist, Yellowknife. Price: $1.00.

OPEN FILE 180 Preliminary drafts of eleven geology maps by D.R. Grant of parts of Newfoundland: NTS 2M and 12P (St. Anthony-Blanc Sablon) at 1:125,000 and 2 E/5 (Roberts Arm); 12 H/4 (Pasadena); 12 H/5 (Sheffield Lake); 12 H/8 (Springdale); 12 H/12 and 12 G/9 (Gros-Morne Skinner Cove); 12 H/13 (St. Paul's Inlet); 12 I/3 and 12 I/4 (Portland Creek-Indian Lookout); 12 I/5 and 12 I/6 (Bellburns Blue Mountain) and 12 I/11 (Port Saunders) at 1:50,000. Field work in 1969, 1971 and 1972. These maps show the geomorphic expression of structural elements of exposed and submask bedrock as well as the distribution and composition of surficial materials and landforms. They are multipurpose with application to highway and materials and engineering, water supply and geochemical prospecting.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 181 Preliminary drafts of 16 surficial geology photomosaic maps and legend (8p.) of part of southern Labrador (NTS 13J), by R.J. Fulton, D.A. Hodgson and G.V. Minning, compiled from data collected during the 1970 field season. Scale: 1:50,000. These maps show the distribution of surficial materials and landforms; map-units based on the genesis of the material, its morphology and, where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 182 An unedited report on microfloral assemblages, ages and zonation in an Upper Cretaceous section from the Horton River, District of Franklin, Northwest Territories, by D.J. McIntyre. It is based on the study of 89 Upper Cretaceous samples of the Horton River section which were made available to Chevron Standard Limited, Calgary in 1969 as part of a Geological Survey of Canada co-operative research project.
Now Published: as GSC Paper 74-14. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 183 Gravity and Magnetic Data - Atlantic Continental Margin: The gravity and magnetic data collected off the Atlantic coast of Canada by the Canadian Hydrographic Service and the Atlantic Geoscience Centre on all Bedford Institute of Oceanography cruises up to and including 1972 have been reduced, processed, plotted and contoured in the Natural Resources map series. Compilation work was under contract with Computer Data Processors of Calgary (Now Digitech Systems Co. Ltd) supervised by R.T. Haworth and R.F. McNab of the Atlantic Geoscience Centre,. The 2^{o} by 1^{o} maps have been created only where line density was adequate for publication at 1:250,000. Maps of free air gravity anomaly and total magnetic field have produced for all areas: additional maps of Bouger gravity anomaly and magnetic anomaly are available for eight of the areas. The maps, except for those of the northermost Grand Banks, are available from Hydrographic Chart Distribution Office, Marine Sciences Directorate, Dept. of Environment, Ottawa, 1:1,000,000 maps depicting Bouger gravity anomaly and magnetic anomaly for the area 42^{o}N to 50.5^{o}N, 43^{o}W to 68^{o}W are released by the Marine Sciences Distribution Directorate and the Geological Survey of Canada May 1974. Digital data from which all maps were created are available at user's expense from Computer Science Centre, EMR, 588 Booth Street, Ottawa. Data for each map ara are stored in separate computer files containing for each observation: cruise identification, day and time of observation, latitude, longitude, free air gravity anomaly, simple Bouger gravity anomaly, total magnetic field, magnetic anomaly referred to IGRF and bathymetry. Data are available in a single file for each map area irrespective of which maps will be published for that area. All parameters are given in both their "raw" and "corrected" forms. Data files should be requested by the number of the corresponding Natural Resources map area as shown on the index map below:



OPEN FILE 183 (Con't)

An additional "marginal file" is available for each of the five general areas of coverage. Those files contain data within approximately 20 miles of the map areas and were used to ensure the accuracy of contours to the map margins. The "marginal files" should be requested by the following numbers:

-Gulf of Main	101	-Orpheus anomaly	106
-Tail of the Banks	108	-Grand Banks	115 (2 files)
-Gulf of St. Lawrence	131		

A total of 51 files are available. Data format information will be supplied with the completed order. Computer Science Centre charges follow:

-Cost per file: $50.00 (which includes tapes and mailing).

Cheques should be made payable to the Receiver General of Canada and be mailed with the order to the Computer Science Centre.
Specify whether 7 track (556 bpi), 7 track (800 bpi), or 9 track (800 bpi).

OPEN FILE 184

Preliminary gravity and magnetic maps of the Strait of Juan De Fuca by D.L. Tiffin and R.G. Currie (Geological Survey of Canada), and P.D. Snavely and N.S. McLeod (U.S. Geological Survey). The file consists of a Bouger gravity map, a magnetic anomaly map and a 10-page typescript report presenting part of the geophysical data collected during a co-operative marine geologic study of the Strait of Juan de Fuca by the Geological Survey of Canada and the United States Geological Survey. The file was release in Canada and the United States.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Vancal Reproductions Limited, Vancouver.

OPEN FILE 185

Preliminary drafts of 20 surficial geology photomosaic maps and legend (8p.) of part of southern Labrador (NTS 3 D/4,5,12,13 and 13 A/1-16), by G.V. Minning, R.J. Fulton and D.A. Hodgson, compiled from data collected during the 1970 field season. Scale: 1:50,000. These maps show the distribution of surficial materials and landforms. Map-units are based on the genesis of the materials, its morphology and where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies may be obtained at user's expense by application to K.G. Campbell Corporation Limited, 880 Wellington Street, Ottawa, Ontario.

OPEN FILE 186 Preliminary drafts of 8 surficial geology photomosaic maps, by R.W. Klassen and J.A. Netterville of part of northern Manitoba, NTS 64G (Big Sand Lake) and 64H (Northern Indian Lake) at a scale of 1 inch to 2 miles, and an explanatory legend with comments on origin, topographic expression, assumed thickness, organic cover and permafrost relative to the various map-units. Field work 1973.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 187 Flight logs and index maps relating to vertical colour aerial photographs obtained from three project areas in the late summer of 1973. In all three area, the photography was flown at 7,500 feet above average ground level using a Wild RC camera and Kodak 2445 (colour negative) film. The average photoscale in all areas is 1:15,000.

(a) Beechey Lake project is located 250 miles east of Great Bear Lake in NTS sheet 76G. Photography covers an area of 900 square miles centred about Beechey Lake.
(b) Little Crapeau Lake project area lies approximately 130 miles north-northwest of Yellowknife, in NTS sheets 86B and 86C, and covers an area of 600 square miles centred about the lake.
(c) The third project consists of 300 line miles of colour photography in the Fernie-Sparwood and Belleview areas of S.E. British Columbia and S.W. Alberta in NTS sheets 82G.

Due to the nature of the material, this file is open for examination at the office of the Geological Survey of Canada in Ottawa only. **Copies available from Canada Centre For Remote Sensing, 717 Belfast Road, Ottawa, Ontario. K1A 0E4.**

OPEN FILE 188 Maps and profiles of radioactivity data obtained with the Geological Survey of Canada airborne gamma-ray spectrometer system relating to the District of Mackenzie, Northwest Territories, covering map-sheets Marian River (85N), Wecho River (85O), Carp Lakes (85P) and McKay Lake (75M).
The profiles comprise seven contour maps showing total count, uranium, thorium, potassium, U/Th, U/K and TH/K ratios reproduced at a scale of 1:250,000 and profiles showing the radioactivity parameters along the 24 east-west flight lines that were flown at 5 kilometre line spacing, reproduced at a scale of 1:250,000.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Offices of the Resident Geologist, Yellowknife, N.W.T. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 189 Preliminary draft of surficial geology and geomorphology map of Mackenzie Valley Transportation Corridor (southern part, 60° to 64°N) at a scale of 1:1,000,000 compiled by A.N. Boydell and N.W. Rutter. This map shows the distribution of surface materials and landforms generalized from 1:125,000 scale maps released as Open File 158 and based on field work done in 1971 and 1972. Preliminary draft of surficial geology and geomorphology map of Mackenzie Valley Transportation Corridor (central part, 64° to 68°N) at a scale of 1:1,000,000, compiled by P.T. Hanley and O.L. Hughes. This map shows the distribution of surface materials and landforms generalized from 1:125,000 scale maps released as Open File 97, 108, 155 and 167 and based on field work done in 1969-1972.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 190 Zinc-lead-silver-rich sulphide float and associated geochemical anomalies found during drift prospecting studies in the Spi Lake area, southeast of District of Keewatin, by W.W. Shilts. The file comprises three pages of text and two sketch maps.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from GSC Publications Office, Ottawa. Free of Charge.

OPEN FILE 191 Preliminary drafts of five surficial geology and landform maps with legends of part of the northern Mackenzie Valley and northern Yukon Territory, comprising Aklavik (107 B/W1/2), Blow River (117 A/E1/2 and W1/2), Demarcation Point (117C) and Herschel Island (117D) map-areas, at a scale of 1:125,000, prepared by V.N. Rampton and based on field work in 1970 and 1972. These maps are a revision of those issued previously as Open File 21 released February 11, 1970. These maps show the distribution of surficial materials and landforms; map-units based on genesis of the material, its morphology, and its texture. An extended legend accompanying the maps contains additional data on each map-unit, including the nature of the material and its thickness, permafrost and ice content, distribution and stratigraphy, with comments on the geomorphology, surface drainage and natural hazards, and the expected degradation following surface disturbance.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre in Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 192 Preliminary drafts of five surficial geology and geomorphology maps and an explanatory legend of part of the southeastern District of Keewatin, comprising Marble Island (55J), Tavani (55K) McQuoid Lake (55M), Gibson Lake (55N) and Chesterfield Inlet (55 O) map-areas, compiled by A.N. Boydell and based on field work in 1973. Scale: 1:125,000. These maps show the distribution of surface materials and landforms. Terrain units are based on the genesis of the material; the legend contains additional descriptive data on each unit.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 193 An unedited report of 206 pages describing the stratigraphy, stratigraphic correlations, sedimentology and paleogeography of the Upper Cretaceous rocks of the Yukon Coastal Plain and northwestern part of the Mackenzie Delta, by F.G. Young. The report is based on field work done in 1970-72.
Now Published: As GSC Bulletin 249. Copies available from Publications Distribution Office, Ottawa Geological Survey of Canada, Ottawa.

OPEN FILE 194 Preliminary map showing the distribution of deposits of granular material, with legend and explanatory notes, by D.R. Grant. Newfoundland-Granular Resources Inventory. Data is based on air photo interpretation and field work from 1969 and 1973. Scale: 1:500,000. Deposits are differentiated on the basis of genesis and morphology and are rated in terms of anticipated suitability, workability and freedom from environmental constraints.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Office of the Mineral Development Division, St. John's, Newfoundland. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 195 Preliminary drafts of 10 surficial geology photomosaics maps and legend (8p.) of part of southern Labrador (NTS 12 P/12,13,14, and NTS 13 I/3,4,5,6,11,12,13), by R.J. Fulton, G.V. Minning and D.A. Hodgson, compiled from data collected during the 1970 field season. Scale: 1:50,000. These maps show the distribution of surficial materials and landforms. Map-units are based on the genesis of the material, its morphology and, where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 196 Preliminary drafts of two erosion susceptibility maps of part of the Swan Hills region of Alberta (Wallace Mountain, NTS 83 J/13, E and W), by D.A. St.-Onge and J. Lengellé, based on field work in 1973. Map-units are based on materials, slopes and revegetation rate after deforestration, with or without removal of the topsoil. Explanatory notes are included on each map.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 197 Inventory of Marine Surficial Geology and Related References - Pacific Coast: The file consists of a map showing the location of various marine surficial geology, sedimentology, geomorphology, Quarternary paleontology and paleocology, geochemistry and related studies of the Pacific Shelf of Canada and a 46 page typescript report comprising a bibliographic list and explanatory notes by K.E. Ricker.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 198 Quatre cartes des dépôts de surface et une légende d'une région sise à l'est de la baie James ont été dressées par J.S. Vincent. Ces cartes: 33 E/9 (riviére Achazi), 33 E/16, 33 F/12, 33 F/13 (lac Awichina) sont à l'echelle au 1:50,000 et font parties d'une série de 19 cartes couvrant le secteur aval de la riviére La Grande et la région qui est située de part et d'autre de la nouvelle route entre la riviére Eastmain et la riviére La Grande. Les cartes donnent une idée de la répartition des dépôts du Quaternaire et des différentes formes de terrain, et, sont accompagnées d'une légende qui en plus de fournir des renseignements sur la genése, la topographie, la texture, l'utilité comme matériau de construction, l'épaisseur approximative et la qualité du drainage des différents dépôts, donne une bréve description du tapis végétal et de la distribution du pergélisol. La légende énumére également les processus actifs qui agissent sur chaque unité géologique et donne une idée des effets possibles, pouvant résulter d'activités humaines telles que la construction de routes ou autre grands travaux. Les reléves sur le terrain on été effectués au cours de l'été 1973.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from K.G. Campbell Quickprint, Ottawa.

OPEN FILE 199 A compilation geological map of the White Eagle Falls (86 F/12) area at a scale of 1:31,680 has been prepared by W.A. Padgham, R.J. Shegelski, J.D. Murphy and C.W. Jefferson for Indian Affairs and Northern Development Dept. The map shows the outcrop pattern and the mineral occurrences of the district as well as the geology. Descriptive notes are in the margin of the map.
Examination Points: GSC Libraries in Ottawa, Calgary, and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. and Also at the Offices of the Resident Geologist, IAND, Whitehorse and Yellowknife. Copies available from Resident Geologist, IAND, Yellowknife. Price: $1.00.

OPEN FILE 200 Map compilation and revised interpretation of geology of Carmacks map-area (115 I), Yukon Territory by D.J. Tempelman-Kluit (1974), consisting of a transparency and coloured print of the map-area. The map, plotted on a recent topographic base, includes structural data not previously published. Age and correlation of the map units are reinterpreted to be compatible with those in adjacent Snag and Aishihik map-area (GSC Open File 161).
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Office of the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 201 Preliminary drafts of 17 surficial geology photomosaic maps and legend (7p.) of part of southern Labrador (NTS 13 H/1-16; 3 E/12,13; 3 E/4,5), by D.A. Hodgson and R.J. Fulton, compiled from data collected during the 1969 field season. Scale: 1:50,000. These maps show the distribution of surficial materials and landforms. Map-units are based on the genesis of the material, its morphology and, where appropriate, its texture. Geologic data have been plotted on semi-controlled airphoto mosaics.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 202 Listing of Selected ERTS Images: The ERTS collection of the Geological Survey of Canada in Ottawa includes more than 3,000 sets of prints acquired at all seasons of the year from all parts of Canada. The collection has been built up with a standing order to the National Air Photo Library requesting all images with less than 20% cloud cover and with good quality reproduction. A listing of 600 quality images have been listed here, representing about 80% of Canada. The cloud cover is minimal (0-5%) and restricted usually to the edge of the image or to areas of water, and snow is absent to sparse except in areas of permanent snow. Enquiries for information on specific NTS areas may be made to the librarian at the Geological Survey of Canada, Ottawa.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. and also at the office of the Resident Geologist, Yellowknife. Copies of the listing are not available for sale.

OPEN FILE 203 Jurassic and Lower Cretaceous paleogeography and depositional tectonics of Porcupine Plateau and adjacent areas of northern Yukon Territory and Mackenzie District, Northwest Territories, by J.A. Jeletzky. Field work was carried out during 1955, 1958, 1959, 1970, 1971 and 1973 field seasons.
Now Published: as GSC Paper 74-16. Copies available from GSC Publications Office, Ottawa.

OPEN FILE 204 Three bedrock and unconsolidated sediment thickness maps at a scale of 1:100,000 of the portion of Lancaster Sound between 86°15'W and 90°00'W, plus two interpreted geological cross-sections. The maps and interpreted cross-section were produced by Huntec '70 Ltd., from 900 km of single channel continous seismic reflection data obtained on CSS Baffin in 1973, and a brief report of the interpretation is included. Details of the survey have been reported by Lewis, Horsman and Ross in GSC Paper 74-1, Part A, p. 251-252.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth. Copies are available on microfilm or paper copy from Precision Microfilming Services, Halifax or TELEX: WESTHEM 019-22720.

OPEN FILE 205 Drafts of 5 geological maps of Operation Stewart (northern Selwyn Basin), Yukon and District of Mackenzie, N.W.T. Includes NTS 106 A, B, C; 105 N, O. By S.L. Blusson. Scale: 1:250,000.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Also at the Office of the Resident Geologist, Whitehorse, Yukon. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 206 Drafts of 6 geological maps of part of Nadaleen River map-area, Yukon and District of Mackenzie, N.W.T. NTS 106 C/6,7,10,11,13,14 and 15. By. S.L. Blusson. Scale: 1:50,000.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Also at the Office of the Resident Geologist, Whitehorse, Yukon. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 207 Draft of airphoto-interpretation surficial geology map and 34 page report of Nadaleen River map-area, NTS 106C). By K.E. Ricker. Scale: 1:125,000.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Also at the Office of the Resident Geologist, Whitehorse, Yukon. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 208 A geological map of the High Lake area (76 M/7) at a scale of 1:31,680 has bee prepared by W.A. Padgham, R.J. Shegelski, D.R. Hughes and C.W. Jefferson for Indian and Northern Affairs Dept. The map shows the outcrop pattern and the mineral occurrences of the district as well as the geology. Descriptive notes are in the margin of the map.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. and also the Resident Geologists, IAND, Yellowknife and Whitehorse. Copies available from Resident Geologist, IAND, Yellowknife. Price: $1.00

OPEN FILE 209 Geological map of MacMillan River sheet (NTS 103 and part of 113), Yukon and Northwest Territories. The file includes uncoloured map at 1:1,000,000 scale, legend and a correlation chart of 11 columns representing rock sequences in different regions. Compilation by H. Gabrielse, S.L. Blusson and A.V. Okulitch, 1974.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. and also at the Office of the Resident Geologist, IAND, Yellowknife. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 210 Preliminary drafts of TERRAIN CLASSIFICATION AND SENSITIVITY MAPS and legend of part of the northern Yukon Territory, comprising Trail River (106L), Old Crow (116N and O/E1/2) and Bell River (116P) at a scale of 1:250,000, compiled by R.L. Monroe. These are successive maps of a series of "derived" maps designed to illustrate land capability and performance prepared for Indian and Northern Affairs Dept. as part of the Environmental Social Program, Task Force on Northern Oil Development. They provide information on both surficial geology and bedrock presented as standard map units chosen to portray terrain conditions. Legend material accompanying the maps provides information concerning local description, permafrost and ground ice conditions, drainage characteristics, hazards, and an evaluation of terrain units as sources of construction materials. A performance rating table identifies significant hazards of individual terrain units in coded form and numerically rates the severity of environmental disturbance, performance of newly thawed material, and performance of normal unfrozen material, in both permafrost and non-permafrost sites.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 211 Cu, Zn and Ni in Till - Henninga - Kaminak - Quartzite Lake Area: Preliminary drafts of two maps showing Cu-Ni and Zn concentrations in clay separates from till samples and two pages of explanatory notes by W.W. Shilts, based on field work 1970, 1971 and 1973. Anomaly maps are superimposed on generalized bedrock based prepared by R.H. Ridler.
Examination Points: GSC Libraries in Ottawa, Calgary, and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 212 Reconnaissance geology of Quiet Lake (105F), Finlayson Lake (105G), Sheldon Lake (105J) and Tay River (105K) map-areas, Yukon Territory. Consisting of text with four maps and several plates, figures and a table. Compilation by D.J. Tempelman-Kluit of field work carried out in the course of Operation Kelly during 1956, 1958, 1959 and 1960. Sketch maps accompanying this report embody important revisions in the stratigraphy of some rock units as a result of recent work.
Examination Points: GSC Library in Vancouver only. Copies not available for sale.

OPEN FILE 213 Preliminary draft of a surficial geology map of part of the Winchester area (NTS 31 G/3 W1/2) by S.H. Richard, compiled from data collected during the 1970, 1971 and 1972 field seasons. scale: 1:50,000. This map shows the distribution and nature of the various surficial deposits and landforms.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from K.G. Campbell Quickprint, Ottawa.

OPEN FILE 214 Geological map and legend of Iskut River, British Columbia (NTS 104 and part of 114), compiled by J.G. Souther, D.A. Brew and A.V. Okulitch, 1974. Scale: 1:1,000,000.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 215 Geological map with legend of Hazelton Map-area (E1/2), British Columbia (NTS 93 M/E1/2), compiled by T. Richards, based on field work in 1972 and 1973. Scale: 1:125,000.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 216 Preliminary drafts of 10 surficial geology photomosaic maps and legend (7p.) of part of southern Labrador (NTS 13 L/1,8,9,16; 13 N/1; 13 O/2,3,4,5,6), by R.J. Fulton, D.A. Hodgson, G. Minning and R.D. Thomas, compiled from data collected during the 1970 field season. Scale: 1:50,000. These maps show the distribution of surficial materials and landforms. Map-units are based on the genesis of the material, its morphology and, where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 217 Preliminary drafts of nine surficial geology photomosaic maps, by R.W. Klassen and J.A. Netterville, of part of northern Manitoba, NTS 63 G/N1/2 (Grand Rapids); 63I (Cross Lake), and 63J (Wekusko Lake), at a scale of 1 inch to 2 miles and an explanatory legend with comments on origin, topographic expression, assumed thickness, organic cover and permafrost relative to the various map-units. Field work 1973.
Examination Points: GSC Libraries in Ottawa, Calgary, and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 218 Gravity, magnetic and bathymetric data collected on the cruise HUDSON 71-014 in the Gulf of Maine have been processed and stored on magnetic tape and were released in GSC Open File 183. These data are now available in a report entitled "Geophysical Survey of the Gulf of Maine and Adjacent Areas" Hudson 71-014", by A.B. Watts and R.T. Haworth. It includes the results of data analysis, free air contour map, selected profiles, ship's tracks, navigation data printout and 10-minute interval reduced data. The reduced data gives the bathymetry, magnetic anomaly, total magnetic field, free air gravity and simple Bouger anomaly.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Precision Microfilming Limited, Halifax.

OPEN FILE 219 Report on Terrain Studies in the James Bay Development Area, by R.G. Skinner. This paper summarizes studies carried out in the summer of 1973 and concerns principally the sedimentology of the lower La Grande River, the relationship of sedimentary processes and vegetation, terrain analysis, and the effects of hydroelectric development on La Grande River and areas near its mouth. Their report follows surficial geology maps prepared by J.S. Vincent and released as Open Files 178 and 198.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from the GSC Publications Office, Ottawa. Price: $2.00.

OPEN FILE 220 An unedited report of 15 pages and one figure in which is outlined a revised megafossil zonation of lower and middle Upper Devonian strata of the central and lower Mackenzie Valley, District of Mackenzie, N.W.T., by A.E.H. Pedder. The revised zonation is based on new data obtained from the identification of collections made during Operation Norman and other recent projects of the Geological Survey of Canada during 1968 and 1969.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the office of the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 221 Preliminary unedited geological maps showing bedrock geology of the northern parts of Mount Eduni (106A) and Bonnet Plume Lake (106B) map-areas, District of Mackenzie, N.W.T. at a scale of 1:125,000. Compilation is by J.D. Aitken and D.G. Cook, 1974, and is based on field work in 1969 and 1970.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 222 During the period May 9-18, 1973, Barringer Research Limited carried out multifrequency (VLF, LF, BCB) E-Phase airborne resistivity surveys over four areas in the Northwest Territories. These surveys were conducted on behalf of the Geological Survey of Canada as part of the Environmental Social Program, Northwest Pipelines. The purpose of the surveys was to provide data required by the Geological Survey for evaluation of geophysical methods for permafrost and ground ice detection and evaluation in the continuous and discontinuous permafrost zones. The file consists of 22p. text, 5 tables, 4 figures and 13 drawings.

Survey Areas	NTS Sheets	CENTRE OF SURVEY AREA LATITUDE	LONGITUDE
Tuktoyaktuk	107 C/8W, 9W	69°27.5'N	132°36.5'W
Norman Wells:			
-Heart Lake	96 E/3,6	65°13'N	127°13'W
-Norman Wells	96 E/5,6	65°21'N	127°08'W
Fort Simpson	95 H/11W	61°38.5'N	121°22'W
Willowlake River	95 J/14	62°52'N	123°10'W

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Barringer Research Limited, Rexdale, Ontario.

OPEN FILE 223

Gravity, magnetic and bathymetric data collected on the cruises CSS HUDSON 06-65, CSS HUDSON 19-68 and CSS HUDSON 22-68 at the Mid-Atlantic Ridge, near 45° are processed and stored on magnetic tape. The processed data include time, latitude, longitude, uncorrected water depth in fathoms (also in metres), magnetic field in gammas, magnetic anomaly in gammas (based on 1965.0 IGRF), free air gravity in milligals (based on 1930 Theoretical gravity) and simple bouger anomaly (based on density 2.67 gm/cm^3). Details of the data have been reported by P.J. Bhattacharyya and D.I. Ross, Dept. of Environment Marine Science Paper 11, 1972 (Available from Information Canada - Catalogue No. EN36-504/11).
A 16-page introductory paper on the cruises and data is available at a cost of $1.60 from the Publications Office, GSC, Ottawa. The digital data are available from the Computer Science Centre in the following formats. Please specify which is required:

7 Track	556 B.P.I.	BCD	Even Parity
7 Track	800 B.P.I.	BCD	Even Parity
9 Track	800 B.P.I.	EBCDIC	Odd Parity
or 9 Track	800 B.P.I.	ASCII	Odd Parity

The cost of the tape is $200.00 and cheques should be made payable to the Receiver General of Canada and mailed to the Computer Science Centre, Dept. of EMR, Ottawa.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at Atlantic Geoscience Centre, Dartmouth, N.S.

OPEN FILE 224

Gravity, magnetic and bathymetric data collected on the cruise CSS HUDSON 72-025 off Labrador are processed and stored on magnetic tape. The processed data include time, latitude, longitude, uncorrected water depth in fathoms (also in metres), magnetic field in gammas, magnetic anomaly in gammas (based on 1965.0 IGRF), free air gravity in milligals (based on 1930 theoretical gravity) and simple bouger anomaly (based on density 2.67 gm/cm^3).
An 8-page introductory paper on the cruise and data is available at a cost of $1.00 from the Publications Office, GSC, Ottawa. The digital data are available from the Computer Science Centre in the following formats. Please specify which is required:

7 Track	556 B.P.I.	BCD	Even Parity
7 Track	800 B.P.I.	BCD	Even Parity
9 Track	800 B.P.I.	EBCDIC	Odd Parity
or 9 Track	800 B.P.I.	ASCII	Odd Parity

The cost of the tape is $125.00 and cheques should be made payable to the Receiver General of Canada and mailed to the Computer Science Centre, Dept. of EMR, Ottawa.
EXamination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at Atlantic Geoscience Centre, Dartmouth, N.S.

OPEN FILE 225 "Botanical studies near the Mackenzie River, Northwest Territories", by Dr. C.D. Bird , Dept. of Biology, University of Calgary.
This manuscript is a result of field work carried out under contract to the Geological Survey of Canada under the supervision of GSC Staff officers O.L. Hughes and N.W. Rutter during the 1971 and 1972 field seasons. Information provided in the report includes the distribution and occurrences of the various plant speciesfound during field investigations, the relationship of the "principal" species to the various substrates on which they occur, and lists of species found at specific sites. In addition, some information is provided on leeches, spiders, aquatic beetles and Lepidoptera.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at Atlantic Geoscience Centre, Dartmouth, N.S. Copies available at a cost of $10.00 from GSC Publications Office, Ottawa.

OPEN FILE 226 Unedited report on regional organic metamorphism in the Mesozoic strata of the Sverdrup Basin including 13 pages of text, 3 tables and 24 figures: a presentation of data derived from gas from drill cuttings and an interpretation of the various levels of organic metamorphism. The data result from organic geochemistry laboratory investigations, the purpose of which is to delineate or define by organic metamorphism, the "oil window" or zone of oil generation. The report is based on work done between 1969 and 1972.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 227 "Botanical studies in the Yukon and Northwest Territories", by Dr. C.D. Bird, Dept. of Biology, University of Calgary.
This manuscript is as a result of field work carried out under contract to the Geological Survey of Canada under supervision of GSC Staff officers O.L. Hughes and N.W. Rutter during the 1971 and 1972 field seasons. Information provided in the reports includes the distribution and occurrences of the various plant species found during field investigations, the relationship of the "principal" species to the various substrates on which they occur, and lists of species found at the specific sites. In addition, some information is provided on leeches, spiders, aquatic beetles and Lepidoptera.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from GSC Publications Office, at a cost of $10.00.

OPEN FILE 228 Shallow Seismic Data from Cruise MINNA 73-019, by R.F. McNab and A.C. Grant. Copies of shallow seismic reflection records obtained over approximately 1350 miles of track northeast of Newfoundland. Lines run E-W between the 200- and the 3000- metre isobaths at roughly 20 mile intervals from the 49th to the 51st parallels. In addition, two lines extend from this area to the 4000-metre isobath. The measurements were carried out in the fall of 1973 as part of a hydrographic-geophysical survey of the continental margin. The file consists of a brief description of the operation; a condensed log; a computer listing of ship positions at hourly or half-hourly intervals (18 pages); a track chart, and copies of the seismic records.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Norman Wade, Halifax, N.S.

OPEN FILE 229 Timmins Magnetic Susceptibility Maps. A magnetic susceptibility map has been prepared under contract by Paterson, Grant and Watson Limited of Toronto for an area northwest of Timmins, Ontario. The 1:25,000 magnetic susceptibility map was derived from the high resolution aeromagnetic survey data published by the Geological Survey of Canada as Maps 20,005G (NTS 42A/12a), 20,006G (NTS 42 A/12h), 20,008G (NTS 42 A/11d) and 20,009G (NTS 42 A/11e). The map is intended to display the effective volume magnetic susceptibility of the rock formations which produce the magnetic patterns seen on the total field aeromagnetic maps. A three-page description of the technique and a brief discussion of features on the map prepared by Dr. Fraser S. Grant is included.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 230 Hamilton Bank, Labrador. Part I. Surficial Sediments: An 83-page report accompanies a series of maps indicating the percentages gravel, sand, silt, clay and mud and the distribution of total sediment assemblages over Hamilton Bank and periphery. The bottom sediments of the Bank are muddy fine sands fringed in sequence by well sorted medium sands and by a belt of poorly sorted sandy gravel and boulders. Two inner shelf basins, Cartwright Saddle and Hawke Saddles, parts of the Labrador marginal channell, are floored by clayey silts. Sea bottom photographs highlight the characteristics of the various sediment types. The report has been prepared by J. McG. Stewart, March, 1974.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Precision Microfilming Limited, Halifax.

OPEN FILE 231 A comprehensive list giving details of all suites of macrofossils, microfossils, palynological slides, petrographic thin sections and analytical reports from wells drilled in northern Canada that are at present available for study. This list is to be revised periodically. The material is available for examination without fee at the Institute of Sedimentary and Petroleum Geology, Room 187, Calgary; however, a written request for an appointment should be made to the Director, ISPG, to examine the material. No material may be moved from mounts, etched with acid or otherwise prepared. Conventional photography and photomicrography may be performed but all necessary equipment must be provided by the Examiner.
Examination Points: List is available for viewing at Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies of list available from Riley's Data Share International Limited, Calgary.

OPEN FILE 232 A brief description of Archean mafic volcanics and sediments and associated mineral deposits in part of Point Lake (86H), District of Mackenzie, N.W.T. by John B. Henderson. File based on field work carried out during 1974 field season.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. and also at the office of the Resident Geologist, IAND, Yellowknife and Whitehorse.

OPEN FILE 233 Unedited report describing the taxonomy, paleoecology and biostratigraphy of spores, pollen, dinoflagellate cysts and acritarchs from seven surface sections of Lower Cretaceous rocks on Horton River, District of Mackenzie, by W.W. Brideaux, Institute of Sedimentary and Petroleum Geology, Calgary, and D.J. McIntyre, Chevron Standard Limited, Calgary. The strata belong to the Langton Bay and Horton River Formations. The samples used are from sections described and collected by T.P. Chamney, 1968.
Examination Points: GSC Libraries in Ottawa, Calgary, and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Orhan's Reproductions Limited, Calgary.

OPEN FILE 234 A report on the surface and subsurface geology of the Ontaratue River (106J), Travaillant Lake (106 O) and Canot Lake (106P) map-areas, District of Mackenzie, Northwest Territories, by D.G. Cook and J.D. Aitken. The report includes 41 pages of text; 3 appendices containing reports on fossils collected from the three map-areas; 13 figures and a geological map of each map-area. Report is based on field work done in 1968 and 1971.
Now Published: As GSC Paper 74-34. Copies available from Publications Office, GSC, Ottawa.

OPEN FILE 235 A report on the type sections of the Lower Paleozoic Franklin Mountain and Mount Kindle Formations, with data on their regional development over the Interior Platform, Franklin Mountains and northern Mackenzie Mountains, by B.S. Norford and R.W. Macqueen. The report includes 51 pages of text; 5 appendices; 9 plates and 5 figures, and is based on field work by B.S. Norford in 1965 as part of Operation Nahanni, and by R.W. Macqueen in 1968 and 1969 as part of Operation Norman, as well as on data obtained during Operations Mackenzie (1957) and Porcupine (1962) of the Geological Survey of Canada.

Now Published: As GSC Paper 74-17 and GSC Color Maps 1408A, 1409A and 1410A. Copies available from Publications Distribution Office, GSC, Ottawa.

OPEN FILE 236 A report on measured stratigraphic sections and reconnaissance studies of the geological sturcture in widely separated areas of Foxe Basin, Melville Peninsula and Baffin Island, integrated with the detailed study of a diamond drill core from the centre of Foxe Basin, by H.P. Trettin. The report is based on field work by the author in 1968; B.V. Sanford and T.E. Bolton in 1973, as well as data obtained by Operations Admiralty (1963) and Bylot (1968) of the Geological Survey of Canada.

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 237 The following Open File on short paper has been published in the January 1975 Report of Activities Part A. They were released earlier as they contained material of possible economic interest that was discussed at the meetings of the Yukon and Northwest Territories' Chamber of Mines:

1/ Carmacks, Yukon Territory; D.J. Tempelman-Kluit.
2/ Stratigraphic and Structural Studies in the Pelly Mountains, Yukon; D.J. Tempelman-Kluit, G. Abbott, S. Gordey and B. Read.
3/ Operation Saint Elias, Yukon Territory; R.B. Campbell and C.J. Dodds.
4/ Operation Saint Elias, Yukon Territory. The Mush Lake Group and Permo-Triassic rocks in the Kluane Ranges; P.B. Read and J.W.H. Monger.
5/ Integrated Studies on Mineral Resources Appraisal in the Beechey Lake Belt of the Northern Sheild; E.M. Cameron.
6/ A gravity investigtation within the Agricola Lake Geochemical Anomaly; N.W.T.; J.B. Boyd, R.A. Gibb and M.D. Thomas.
7/ Soil geochemistry of the Agricola Lake massive sulphide prospect; E.M. Cameron and C.C. Durham.
8/ Hydrogeochemical studies in the Agricola Lake area, 1974; E.M. Cameron and J.J. Lynch.
9/ Surface lake-water uranium-radon survey of the Lineament Lake Area, N.W.T.; W. Dyck and E.M. Cameron.

(Con't)

OPEN FILE 237 (Con't)

10/ A geochemical field laboratory for the determination of some trace elements in soil and water samples; R.E. Horton and J.J. Lynch.
11/ Ground magnetometer survey in the Agricola Lake area, N.W.T.; L.J. Kornick.
12/ Geology of the Agricola Lake area, Slave Structural Province; T.H. Pearce and Denis Lefebvre.
13/ V.L.F. resistivity (Radiohm) survey, Agricola Lake area, N.W.T.; W.J. Scott.
14/ Colour photography in the Beechey Lake belt, N.W.T.; V.R. Slaney.
15/ Limnological investigations in the Agricola Lake area; J.D.H. Williams.
16/ Nickel potential of the Prince Albert Group, N.W.T.; O.R. Eckstrand.
17/ Volcanogenic rocks of the Prince Albert Group, Melville Island Peninsula (NTS 47A-D), District of Franklin; Mikkel Schau.
18/ Volcanism and plutonism, Sloan River map-area (86K), Great Bear Lake, District of Mackenzie; P.F. Hoffman and I. Bell.
19/ Carbonate-hosted zinc lead deposits of the northern Canadian Cordillera; K.M. Dawson.

Copies of this publications may be obtained at the user's expense by application to GSC Publications Office, Ottawa.

OPEN FILE 238

Gulf of Maine - Sackville Cruise 73-032: Magnetic and bathymetry data were collected on a series of lines in the Gulf of Maine between pre-selected bottom gravimeter stations. The data are presented as profiles and listings in a report prepared by D.R. Parrott. A summary of the data collection and processing methods is given together with a discussion of the interpretation of the magnetic profiles. Prints of the report may be obtained for $30.00 on application to Precision Microfilming Services, Halifax. Digital data are also available from the Computer Science Centre in the following formats:

7 Track	556 B.P.I.	BCD	Even Parity
7 Track	800 B.P.I.	BCD	Even Parity
9 Track	800 B.P.I.	EBCDIC	Odd Parity
9 Track	800 B.P.I.	ASCII	Odd Partity

The cost of the tape is $70.00. Cheques should be made payable to the Receiver General of Canada and mailed to the Computer Science Centre, Dept. of EMR, Ottawa.

OPEN FILE 239 Base Metal Deposits, Slave Geological Province: Geological maps at a scale of 1 inch to 200 feet of the High Lake copper-zinc deposit (76 M/7) and of the Indian Mountain Lake zinc-lead-silver-copper deposit (75 M/2) have been prepared by W.L. Johnson of the University of Western Ontario for the Department of Indian and Northern Affairs. Brief descriptive notes accompany maps.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. and also at the Resident Geologists, IAND, Yellowknife and Whitehorse and at the Office of IAND, Ottawa. Copies available from the Resident Geologist, IAND, Yellowknife, N.W.T. Price: $4.00.

OPEN FILE 240 Preliminary drafts of two erosion susceptibility maps of part of the Swan Hills region of Alberta (Deer Mountain, NTS 84 J/13, E and W), by D.A. St. Onge and J. Lengellé, based on field work 1973. Scale: 1:50,000. Map-units are based on materials, slopes and revegetation rate after deforestation, with or without removal of the topsoil. Explanatory notes are included on each map.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 241 Preliminary drafts of four surficial geology photomosaic maps, by R.W. Klassen and J.A. Netterville of part of northern Manitoba, NTS 53M (Knee Lake), at a scale of one inch to two miles, and an explanatory legend with comments on origin, topographic expression, assumed thickness, organic cover and permafrost relative to the various map-units. Field work 1973.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 242 A high sensitivity airborne gamma-ray spectrometry survey in the Wollaston Lake area was carried out by the Geological Survey of Canada under the "Canada Saskatchewan Subsidiary Agreement on Mineral Exploration and Development in Northern Saskatchewan" during summer of 1974. Results of the survey are presented as contour maps of the Integral Count, Potassium, Uranium, and Thorium concentrations, and U/Th, U/K, and Th/K ratios; and as profiles of the 7 parameters for each of the 38 flight lines. The maps and profiles are reproduced at a scale of 1:250,000. The flight line spacing for this area was approximately 1.6 km (1 mile).
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. and also the Regina and La Ronge Office, Saskatchewan. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 243 This report is a compilation of the geochemical data obtained for water and sediments from the Baie des Chaleurs collected May 12-15, 1974. Geochemical data measurements include station number, depth (m), temperature (c), pH, salinity, alkal, NA, MG, CA, K, SI, LI, SR, attenuance, SPM, POC, DOC, bacteria, HG, MN, FE, ZN, Cu, and CD. Measurements also include leach analysis and size analysis of sediments.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Precision Microfilming Services, Halifax.

OPEN FILE 244 Preliminary drafts of five surficial geology maps of parts of Newfoundland by D.R. Grant, comprising Ramea (11 P/11), Burgeo (11 P/12), Peter Snouth (11 P/13), White Bear River (11 P/14), and Trout River (12 G/8) map-areas. Scale: 1:50,000. Field work 1973, 1974. These maps show the distribution of surficial materials and landforms as well as the geomorphic expression of exposed and submask bedrock. Map-units are based on genesis of material, differentiated as to morphology and, where appropriate, texture, with information on inferred or observed stratigraphic sequence and genetic overprint. These maps are similar to those released previously as Open File 180.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. and also at the Office of the Mineral Development Division, Dept. of Mines and Energy, St. John's Newfoundland. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 245 Paleontological reports with biostratigraphic zonation in the following three wells drilled in the Arctic Islands, Canada by Paleo Services Limited, Calgary and Robertson Research (North America) Limited, Calgary. The reports comprise studies done under contract for the Geological Survey of Canada.
1/ Elf Cape Norem A-80 well, Mackenzie King Island. 29p. of text, 4 charts, 10 plates (plates are numbered from V to XIV), by D.M. Loranger, Paleo Services Limited (July 1973).
2/ Panarctic Hoodoo Dome H-37 well, Ellef Ringnes Island. 21p. of text, 2 charts, 1 plate. Report No. 50 (October 1973), by D.R. Clowser, M.J. Fisher, J.P. Bujak, R.E. Dunay, P.J. Rauwerda, P.F. Sherrington; Robertson Research (North America) Limited.
3/ Elf Jameson Bay C-31 well, Prince Patrick Island. 29p. of text, 3 charts, 3 plates. Report No. 49 (October 1973), by M.J. Fisher, P.F. Sherrington, J.P. Bujak, D.R. Clowser, R.E. Dunay; of Robertson Research (North America) Limited.
Examination Points: GSC Libraries in Ottawa, Calgary, and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Orhan's Reproductions Limited, Calgary.

OPEN FILE 246 Geological Survey of Canada - Institute of Sedimentary and Petroleum Geology magnetic tape No. 1019, containing geochemical data derived from analyses of canned drill cuttings collected at intervals of approximately 50 feet in fourteen wells in the Arctic Islands by L.R. Snowdon. The tape is accompanied by the following four tables:

Table 1: Characteristics for tape No. 1019.
Table 1a: List of wells on tape No. 1019.
Table 2: Card image format and parameter units.
Table 3: Detector response factors for various gasses.

Analytical procedures followed are described in:

(1) Snowdon, L.R. and McCrossan, R.G.
1973: Identification of petroleum source rocks using hydrocarbon gas and organic carbon content: GSC Paper 72-36.

(2) Snowdon, L.R. and Roy, K.J.
Regional organic metamorphism in the Mesozoic strata of the Sverdrup Basin; on Open File 226 and in press.

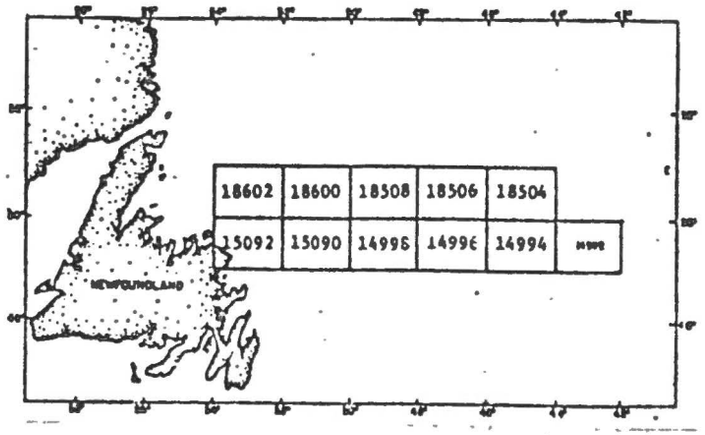
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 247 Reports, profiles and track charts of offshore Labrador bottom survey 1972 as conducted by Eastcan Exploration Limited, Nova Scotia Research Foundation and the Bedford Institute of Oceanography. Three reports: one describing the Nova Scotia Research Foundation V-Fin bottom profiling; one describing bottom survey operations; and last, a report giving a list of the profile enclosures. Bottom profiling consists of 29 side scan sonar lines, 7 air-gun lines using a 1 cu. inch air-gun, and 7 V-Fin sparker (1965 J) lines.

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available at a cost of $435.00 from Precision Microfilming Services, Halifax or Telex: WESTHEM 019-22720.

OPEN FILE 248 Marine Gravity and Magnetic Data Northeast of Newfoundland: Gravity and magnetic data collected by the Canadian Hyrdrographic Service and the Atlantic Geoscience Centre have been reproduced, plotted, and contoured in the Natural Resource Map series. The new maps, showing free air gravity anomaly, Bouguer anomaly, total magnetic field and magnetic anomaly, compiled mainly from data from cruise MINNA 73-019 and also during cruises in 1971 and 1972. It is expected that published maps should be available from Hydrographic Chart Distribution Office, Ottawa by mid-1975. Maps will be published for those areas where the line density is adequate for publication scale of 1:250,000. However, digital data for all maps areas will be available from the Computer Science Centre, Dept. of EMR, Ottawa, from January 31, 1975. Data for each map area stored in separate magnetic tape files containing for each observation: - Cruise identification, data and time, lat., long., free air gravity anomaly, simple Bouguer gravity anomaly, total magnetic field, magnetic anomaly referred to IGRF, and bathymetry. An additional "marginal file" is available, containing data from MINNA 73-019 and earlier cruises, located in a 20-mile margin contiguous to the new map-areas. Complete data set cost $300.00. Data format information will be supplied with each order. This covers price of one reel of magnetic tape plus all copying, handling, and mailing costs. Cheques should be made payable to the Receiver General of Canada and mailed to the Computer Science Centre, Dept. of EMR, Ottawa. Specify whether data are to be transcribed on 7 tracks (556 or 800 B.P.I.) or 9 Tracks (800 B.P.I.).

Location of map sheets shown below.



Number of observation points per map sheet are as follows:

14992	(260)	15090	(6081)	18508	(2817)
14994	(2445)	15092	(3990)	18600	(5282)
14996	(3380)	18504	(1674)	18602	(5572)
14998	(4308)	18506	(1676)	Marginal file	(14108)

Note: Some 1350 nautical miles of shallow seismic data collected during cruise MINNA 73-019 have already been released through GSC Open File 228. Gravity and magnetic data collected in adjacent map areas prior to 1973 were released through Open File 183.

Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S.

OPEN FILE 249 Geological Map of Calgary Map-Area: Unedited geological compilation from published maps of the Geological Survey with additional field data by N.C. Ollerenshaw (1962 to present). (NTS 82/O - Scale: 1:250,000).
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 250 Unedited report consisting of 14 pages of text, a 28-page appendix (core descriptions), and 6 figures. It includes a discussion of the stratigraphical and lithological aspects and an evaluation of the gas potential of the Upper Cretaceous Milk River Formation in the Suffield and Medicine Hat areas of southern Alberta. The study was done in 1972 and was based on a detailed description of cores from eight wells. Additional information was obtained from log cross-sections and from production tests. Report done by N.C. Meijer-Drees.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 251 The Geology of the Beaufort-Mackenzie Basin: Unedited paper (including 23 pages of text and 26 figures) by C.J. Yorath, D.W. Myhr and F.G. Young. Describes stratigraphy, lithology, and structural history, and discusses future prospects for additional hydrocarbon discoveries. Based on field work 1969 and 1973 and on other published material.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 252 TERRAIN CLASSIFICATION AND EVALUATION - EASTERN MELVILLE ISLAND, N.W.T.: Preliminary drafts of 11 photomosaic maps on three sheets, 2 detailed legends, and extensive explanatory notes, defining terms and use of the materials are now available. An unedited encyclopaedic text in two volumes further amplifies the maps and the legend. Volume 1 relates to Map Sheet 1 (747 pages) and Volume 2 relates to Map Sheets 2 and 3 (571 pages). The maps at a scale of 1:125,000 are arranged on three sheets: Sabine Peninsula (sheet 1); Red Point - Weatherall Bay (sheet 2); Sabine-Bay-Skene Bay (sheet 3), and were compiled by D.M. Barnett, S.A. Edlund and L.A. Dredge. NTS sheets 78H, 79A, 79B, and part of 78G). The legends include data on morphology and relief, drainage, surface materials, vegetation, mammals, and birds. In addition and evaluation of ground ice, engineering properties, trafficability and sensitivity to both travel and trenching are given. The legends were compiled by D.M. Barnett, S.A. Edlund, L.A. Dredge (all GSC staff) and D.C. Thomas and L.S. Prevett (Canadian Wildlife Service Staff). The encyclopaedic text is keyed to the map units by a simple alpha-numeric sequence enabling rapid referral from the map or legend to the appropriate portion of the text. The geological section of the text was written by D.M. Barnett and L.A. Dredge, the botanical section by S.A. Edlund and wildlife section by D.C. Thomas and L.S. Prevett. As a range of users of the information are anticipated, three different levels of detail for each environmental parameter are presented in hierarchical form, from simple to complex. Each level is indicated on the map by coded boundary lines; on the legend by separate ranks and in the text by the map unit identifier.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available at cost of $ and of the encyclopaedic text at a cost of $ from the GSC Publications Office, Ottawa.

OPEN FILE 253 Unedited report by W.W. Brideaux, M.J. Fisher, Robertson Research International, "TN-Y-COED" LLANRHOS LLANDUDNO, North Wales, U.K. Describes taxonomy, biostratigraphy and geographic occurrence within the Canadian Boreal Region of an Upper Jurassic-lowermost Cretaceous (Oxfordian-Berriasian) dinoflagellate cyst assemblage.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 254 Contour maps of uranium distribution compiled from GSC gamma-ray spectrometer data collected in 1974. This file comprises five preliminary compilations (scale: 1:250,000); 1/ Tazin Lake (74N) Saskatchewan; 2/ Blind River (41J) Ontario; 3/ Havre St. Pierre (12L) Quebec; 4/ Charlottetown and part (11L & 21I) Prince Edward Island; 5/ Parts of Belleoram and St. Lawrence (1M & 1L) Newfoundland).
Additional airborne spectrometry data for these areas (profiles and maps showing Total Count, Potassium, Thorium, and ratios of the elements) will be released by approximately May/75.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from K.G. Campbell Corporation Limited, Ottawa

OPEN FILE 255 Unedited, detailed report on the stratigraphy and sedimentology of the Paleozoic formations of that part of Devon Island in the vicinity of Prince Alfred Bay, N.W.T., by D.W. Morrow and J. Wm. Kerr. The report includes 125 pages of text, 5 appendices, 1 map, 6 tables, 29 figures, and 20 plates. It is based on field investigations done in 1971 and 1972.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Orhan's Reproductions and Photomapping Limited, Calgary.

OPEN FILE 256 This material consists of additions and replacements to revise and updata Open File 231.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Office of the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 257 Contour maps and profiles of radioactivity data obtained with the GSC airborne gamma-ray spectrometer system, are released for the following areas of Northern Saskatchewan: Tazin Lake (74N); Fond du Lac (74 O); Stony Rapids (74P) and Phelps Lake (64M). The release comprises seven contour maps, at a scale of 1:250,000 showing total count, uranium, thorium and potassium concentrations, and U/Th, U/K and Th/K ratios and profiles also at a scale of 1:250,000 of the 7 radioactivity parameters for each of the 25 east-west flight lines flown at 5-kilometer line spacing. The Survey was carried out under the Canada-Saskatchewan Agreement on Mineral Exploration and Development in Northern Saskatchewan during the summer of 1974.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the office of the Atlantic Geoscience Centre, Dartmouth, N.S. and at the Department of Mineral Resources Regina, Sask. and Laronge, Sask. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 258 Contour maps and profiles of radioactivity data obtained with the GSC airborne gamma-ray spectrometer system, have been released for an area of approximately 1075 Km^2 (NTS 64L), located along the edge of the Athabasca Formation in the Hatchet Lake Area, northeastern Saskatchewan. The release comprises seven contour maps, at a scale of 1:50,000 showing total count, uranium, thorium and potassium,concentrations, and U/Th, U/K and Th/K ratios and profiles, also at a scale of 1:50,000 of the 7 radioactivity parameters for each of the 73 east-west flight lines that were flown at 0.5 mile (0.8 km) line spacing. The survey was carried out under the Canada-Saskatchewan Agreement on Mineral Exploration and Development in Northern Saskatchewan during the summer of 1974.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. and also at the Department of Mineral Resources, Regina and La Ronge, Saskatchewan. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 259 Contour maps and profiles of radioactivity data obtained with the GSC airborne gamma-ray spectrometer system, are released for an area of approximately 1475 km^2, (59°00' - 59°11'N; 104°00' - 105°20'W) located along the edge of the Athabasca Formation in the Black Lake Area, northeastern Saskatchewan. The release comprises seven contour maps, at a scale of 1:50,000 showing total count, uranium, thorium and potassium concentrations, and U/Th, U/K and Th/K ratios and profiles, also at a scale of 1:50,000 of the 7 radioactivity parameters for each of the 99 north-south flight lines that were flown at 0.5 mile (0.8 km) line spacing. The survey was out under the Canada-Saskatchewan Agreement on Mineral Exploration and Development in Northern Saskatchewan during the summer of 1974.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. and also at the Department of Mineral Resourses, Regina and La Ronge, Saskatchewan. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 260 A report dealing with the subsurface Proterozoic and Paleozoic stratigraphy of Banks Island, Arctic Canada by Andrew D. Miall. Subsurface data were obtained from the first 4 wells drilled in the area; surface data were obtained during field work done in 1973 and 1974. The report includes 124 pages of text, 3 appendices, 12 plates, 5 tables and 11 figures.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Copies available from Orhan's Reproductions and Photo-mapping Limited, Calgary.

OPEN FILE 261 Compilation of the geology of Parsnip River map-area sheet (NTS 93) British Columbia at a scale of 1:1,000,000. Included with the map is a detailed legend. Compilation of the geology was done by H.W. Tipper, G.C. Taylor, D.F. Stott and R.B. Campbell.
Examination Points: GSC Libraries in Ottawa, Calgary and Vancouver. Also at the Atlantic Geoscience Centre, Dartmouth, N.S. Also at the Office of the Resident Geologist, Yellowknife, N.W.T. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 262

Contour maps and profiles of radioactivity data obtained with the GSC gamma-ray spectrometry system are released for the Blind River area of Ontario (41J). The release comprises seven contour maps at a scale of 1:250,000 showing total count, uranium, thorium and potassium concentrations, and U/Th, U/K and Th/K ratios, and profiles of the seven radioactivity parameters at the same scale, for each of the 33 flight lines flown in the north-south direction at 5 km spacing.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Also at the Mines, Library, Ontario Ministry of Natural Resources, Parliament Buildings, Toronto.
Copies available from K.G. Campbell Corporation Limited, Ottawa. Prepaid $

OPEN FILE 263

Map showing geology of part of Kananaskis Lakes (82J) map-area, Alberta (scale 1:250,000), with legend by N.C. Ollerenshaw. Field work from 1970 to 1973.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 264

Ground and airborne gamma-ray spectrometry, stream sediment and soil geochemistry investigations of Palaeozoic uranium-copper mineralization in the Ottawa - Arnprior area, Ontario (NTS 31 F/8 E/1/2; 31 G/5 W/1/2) by B.W. Charbonneau, I.R. Jonasson, P.B. Holman and K.L. Ford. The file consists of: 1/ Seven contour maps (scale 1:250,000) showing total count, uranium, potassium and thorium and U/Th, U/K and Th/K ratios determined by airborne gamma-ray spectrometry. 2/ Profiles of airborne spectrometry data at a scale of 1:250,000. 3/ A geochemical uranium map (1:50,000) derived from stream sediment analysis. 4/ A geological compilation map showing locations of known mineralization (1:50,000). 5/ Contour maps of ground gamma-ray spectrometric data (total count, K, U, Th, U/Th, U/K, Th/K) and geochemical data (U, Cu, Mo, Zn) at a scale of 1 inch to 800 feet covering an exposure of U-Cu mineralization west of South March, Ontario).
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Also at the Mines Library, Ontario Ministry of Natural Resources, Parliament Buildings, Toronto.
Copies available from K.G. Campbell Corporation, Ottawa. Prepayment required $55.00. Express Collect.

OPEN FILE 265

Surficial Materials and Biophysical Regions, Eastern Queen Elizabeth Islands: Part I. Preliminary drafts of maps and explanatory legends for Baumann Fiord (NTS 49C) and Graham Island (59D) map-areas. Based on airphoto interpretation and field data collected in 1974. Scale: 1:125,000. (a) Two surficial material maps, map units based on texture (grain size) and genesis of materials plus a legend (1 sheet) describing the textural and genetic terms and bedrock weathering products. Compiled by D.A. Hodgson. (b) Two biophysical regions map, map units based on surficial materials, topography, drainage, geomorphological processes and vegetation and grouped into broad regions, plus a legend describing each unit and region with comments on ground ice, trafficability and sensitivity to disturbance. Geological and geomorphological compilation by D.A. Hodgson, vegetation compilation by S.A. Edlund.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 266

Regional Lake Sediment Geochemical Reconnaissance Data, East-Central Saskatchewan (NTS 63 M, 64 D, and parts of 63K, L, N, 73I, O, P and 74A). This file relates to data acquired under the Canada-Saskatchewan Agreement on Mineral Exploration and Development in Northern Saskatchewan. This project was jointly planned and undertaken by the Geological Survey of Canada and the Saskatchewan Geological Survey. Mr. E.H.W. Hornbrook directed G.S.C. activities and supervised the field sampling contract let to Trigg, Woollett & Associates, Ltd. Dr. L.S. Beck co-ordinated activities at the Sask. Geological Survey. The chemical analyses were also carried out under contract by Barringer Research Limited, the contract being supervised from the G.S.C. by Mr. J.J. Lynch. Data monitoring, compilation and map production was carried out at the survey under the direction of Dr. R.G. Garrett. The surveys covers some 20,000 square miles at an average sample density of 1 sample per 5 square miles. Samples were analyzed for 11 elements (Zn, Cu, Pb, Ni, Co, Ag, Mn, Fe, U, Mo and As), and Loss-On-Ignition to estimate the organic carbon content. The file consists of 48 geochemical maps, the area being divided into 4 sheets, 4 sample location maps and a list of the field and analytical data.
This file has been released as of August 5, 1975.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver, Dartmouth. Also at Sask. Geological Survey, Regina; Mining Recorders' Offices, La Ronge, Creighton and Uranium City, Sask. Copies available from K.G. Campbell Corporation, Ottawa. The field observations and analytical data from which the material was prepared are also available, enquiries should be sent to the Computer Science Centre, EMR, Ottawa.

OPEN FILE 267 Quatre cartes des dépôt de surface d'une région sise à l'est de la baie James ont été dressées par J.S. Vincent. Ces cartes: 33 F/10 (Riviére Sakami); 33 F/11 (Alder Lake); 33 F/14 (Lac Bréhan); 33 F/15 (Lac Carbillet) sont à l'echelle du 1:50,000 et font parties d'une série de 12 cartes couvrant le secteur aval de la riviére La Grande. Celles-ci donnent une idée de la répartition des dépôts du Quaternaire et des différentes formes de terrain. Une légende détaillée (dossier public 198) fournit des renseignements sur la genése, la topographie, la texture, l'utilité comme matériau de construction, l'épaisseur approximative et la qualité du drainage des différents dépôts en plus de donner une bréve description du tapis végétal et de la distribution du pergélisol. La légende énumére également les processus actifs qui agissent sur chaque unité géologique et donne une idée des effets possibles, pouvant résulter d'activités humaines telles que la construction de routes ou autres grands travaux. Les relevés sur le terrain ont été effectués au cours de l'été 1973.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from K.G. Campbell Corporation Limited, Ottawa. Price: $6.80. Prepayment required.

OPEN FILE 268 Unedited preliminary report (including 7 pages of text and 8 figures) summarizing the results of a palynological study of drilling samples from the Harlequin D-86 well (NTS 102 O) 75 km. east of Cape St. James, Queen Charlotte Islands, British Columbia (latitude 51°55'2.585"N; longitude 129°58'12.353"W) by W.S. Hopkins Jr. The study was made in the fall of 1974.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Copies available from Orhan's Reproductions and Photomapping Limited, Calgary, and Riley's Data Share International Limited, Vancouver.

OPEN FILE 269 Contour maps and profiles of radioactivity data obtained with the GSC airborne gamma-ray spectrometer system are released for Prince Edward Island, 11L and part of 21 I. The release comprises seven contour maps at a scale of 1:250,000 showing total count, uranium, thorium, potassium concentrations, and U/Th, U/K and Th/K ratios, and profiles of the 7 radioactivity parameters, at the same scale, for each of the 25 flight flines flown in an East-West direction at 5 km spacing.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Copies available from K.G. Campbell Corporation Ltd., Ottawa. Price $17.95 Express Collect. Prepayment required. This file is also viewed at the Dept. of Industry & Commerce, Prince Edward Island.

OPEN FILE 270 Contour maps and profiles of radioactivity data obtained with the GSC airborne gamma-ray spectrometer system are released for Burin Peninsula, Nfld, south of 47°15'N; Part of NTS 1M. The release comprises seven contour maps at a scale of 1:250,000 showing total count, uranium, thorium and potassium concentrations, and U/Th, U/K and Th/K ratios, and profiles of the 7 radioactivity parameters, at the same scale, for each of the 9 flight lines flown in an East-West direction at 5 km. spacing.
Contour maps and profiles for St. George Basin, Nfld. part of NTS 12B, comprising seven contour maps at a scale of 1:250,000 and profiles at the same scale for each of 16 flight lines flown in an East-West direction at 2 km spacing.
Profiles at a scale of 1:250,000 for approximately 800 line kilometres of survey data collected on two flights across Newfoundland.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Also at the office of the Mineral Development Division, Dept. of Mines & Energy, Newfoundland.
Copies available from K.G. Campbell Corporation Ltd., Ottawa. Price: $21.50 Express Collect. Prepayment required.

OPEN FILE 271 Contour maps and profiles of radioactivity data obtained with the GSC gamma-ray spectrometer system are released for Havre-St.-Pierre, Quebec. NTS 12L. The release comprises seven contour maps at a scale of 1:250,000 showing total count, uranium, thorium and potassium concentrations, and U/Th, U/K, Th/K ratios, and profiles of the 7 radioactivity parameters, at the same scale for each of 18 flight lines flown in an East-West direction at 5 km spacing.
Seven contour maps and profiles compiled from 32 east-west flight lines, 1 km spacing, over the Johan Beetz area within the Havre St. Pierre map sheet.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Also at the office of
Copies available from K.G. Campbell Corporation Ltd., Ottawa. Price: $67.75 Express Collect. Prepayment required.

OPEN FILE 272 Unedited drafts of two maps of part of Northwest Territories comprising Upper Ramparts River (106G) and Sans Sault Rapids (106H) map-areas with legend common to both areas. Geology is based on field work compiled by J.D. Aitken and D.G. Cook in 1968, 1969 and 1970. Scale: 1:125,000.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Copies available from Riley's Data Share International Limited, Calgary.

DOSSIER PUBLIC 273 Estimations de quelques propriétés physiques des sols. Cet ouvrage tente d'identifier quelques unes des analyses clés en mécanique des sols (analyses rapides, simples et élémentaires) et d'en donner quelques dérivations possibles (propriétés physiques estimées). Ceci permet d'augmenter la valeur des résultats de ces analyses lors de leur interprétation et de l'évaluation des possibilités des sols au stade de la planification. Les formules de dérivations ou d'estimations sont expliquées avec un exemple des modalités du calcul. Ces formules proviennent de la littérature géotechnique et sont employées fréquements par les ingénieurs et les géotechniciens comme premiére approximation.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Copies available from Geological Survey Publications Office, Ottawa. Price:$1.00 Prepayment required.

OPEN FILE 274 Preliminary draft of a glacial map of Beatton River map-area, British Columbia (NTS 94) by W.H. Mathews (University of British Columbia), H. Gabrielse and N.W. Rutter. Scale: 1:1,000,000.
The map shows the distribution of glacial feature and landforms, location of erratics and drift boundaries of different provenance, location and age of radiocarbon dated organic material and location and elevation of features marking a high level record of glaciation, with short descriptive notes.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 275 A report on seismic and electrical surveys carried out during August and September 1974 by Terraquest Surveys, Limited. These surveys were conducted on behalf of the Geological Survey as part of the monitoring program of the Mackenzie Highway Environmental Working Group, Dept. of Indian and Northern Affairs.
Seismic and resistivity data were gathered along the centre line and 6 transects (each 3,000 feet long) for the Martin River section (M305-M315) and along the 10 transects for the Willowlake River section (M395-M411). Thirty-six resistivity soundings were carried out at selected localities. The work has delineated areas that are underlain by frozen ground, the position of the frost table, local thicknesses and indications of the possible nature of the frozen ground and in some cases interpretations of the nature of the unfrozen materials.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Copies available from Terraquest Surveys Limited, Toronto. Price: $34.00. Prepayment required.

OPEN FILE 276 Inventory of Marine Surficial Geology, Sedimentology, Geomorphology, Quaternary Paleontology and Paleocology, Geochemistry and Related Studies of the Pacific Regions of Canada. The file consists of three maps showing the location of various studies and a 154 page typescript report comprising explanatory notes, a bibliographic list and appendices by K.E. Ricker.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from Riley's Data Share International Limited, Vancouver.

OPEN FILE 277 Contamination in Overburden samples Obtained by the Rotary Dual-Tube Drilling Technique: Unedited manuscript report by D.A. Proudfoot, R.G. Skinner and W.W. Shilts discussing contamination introduced by abrasion of tungsten-brass alloys in components of equipment during drilling to obtain overburden samples for geochemical analysis.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver, and Dartmouth.
Copies available from GSC Library, Ottawa. Price: $1.00. Prepayment required.

OPEN FILE 278 Unedited map showing bedrock geology of Cornwall Island (parts of NTS 59C, 59D) with legend. Geological field work by H.R. Balkwill, K.J. Roy, W.S. Hopkins Jr., W.V. Sliter and D.G. Wilson in 1972, 1973 and 1974. Scale of map 1:62,500. Structure cross-section at a scale of 1:125,000.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 279 Unedited geological synthesis of those parts of Yukon and Northwest Territories covered by map-areas Hart River (116H), Wind River (106E) and Snake River (106F) with a composite legend; scale 1:250,000. Report by D.K. Norris. Geology based on field work by officers of the Geological Survey of Canada between 1962 and 1973.
Examination Points: GSC Libraries in Ottawa, Calagary, Vancouver and Dartmouth. Copies available from Riley's Data Share International Limited, Calgary and the GSC Vancouver Office, 6th Floor Sun Building, 100 West Pender Street, Vancouver.

OPEN FILE 280 **Aeromagnetic survey data obtained in offshore eastern Canada and adjacent regions as a result of a cooperative project between the National Aernautical Establishement and the Geological Survey of Canada is available as an Open File.** The total field magnetic data has been recorded on digital magnetic tape by optical-absorption magnetometers mounted on the North Star aircraft of the National Aeronautical Establishment during the period 1964 to 1973. The data results from low level profiles (usually 1000 feet) across the Labrador Sea, Baffin Bay and the North Atlantic Ocean. The location of these profiles may be found in various field reports written by Peter Hood and Margaret Bower and published in the Summaries of Activities by the Geological Survey of Canada, e.g. GSC Paper 73-1, Part A, pp. 84-85, 1973. Two magnetic tapes are available now from the EMR Computer Science Centre using either of the following formats: 1/ 9 Track, 1600 B.P.I., 2000 character block length, EBCDIC, unlabelled, ODD parity. 2/ 7 Track, 800 B.P.I., 2000 character block length, BCD, unlabelled, EVEN parity. Tape 1 contains aeromagnetic survey data obtained in the Labrador Sea in 1964 and 1966, in the North Atlantic Ocean and Davis Strait in 1966 and in Baffin Bay in 1967. Tape 2 contains aeromagnetic survey data obtained in the Labrador Sea in 1969 and in Davis Strait in 1972 and 1973.
The cost of each of the tapes are $200.00. and cheques should be made payable to the Receiver General of Canada and mailed to the attention of Mr. B. Wainwright, Computer Science Centre, Dept. of Energy, Mines and Resources, 588 Booth Street, Ottawa. Copies of the maps showing the tracks of the survey aircraft and also the flight logs giving necessary navigation information are available from K.G. Campbell Corporation, Ottawa.
NOTE: Tapes 3,4, and 5 will be issued in a later GSC Open File.

OPEN FILE 281 Copper Occurrences in Lower Carboniferous Sedimentary Rocks of the Maritime Provinces, by W.P. Binney. Describes and gives detailed locations for 101 copper occurrences and outcrops localities mainly along the Windsor-Horton (or equivalent) contact in New Brunswick and Nova Scotia. It includes small sketch maps, partial stratigraphic sections, and photographs, 156 pages. Examination Points: This file was released on June 27/75 for examination at GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 282 Three 1 mile preliminary maps from Island Lake map-area, Manitoba by I.F. Ermanovics are released for the following areas: 1/ Stevenson-Willow Lakes; longitude 95°00 to 96°16' - latitude 54°00 to 53°54'. Scale: 1:63,360. 2/ Bigstone-Knight Lakes; longitude 95°05' to 95°55' - latitude 53°38' to 53°46'. Scale: 1:63,360. 3/ Cobdham-Gorman Rivers; longitude 94°00' to 96°00' - latitude 53°00' to 53°15'. Scale: 1:63,360. Two overlays are also included. Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 283 A bottom survey of Halifax harbour as conducted for the Department of Development of the Province of Nova Scotia by Canplan Consultants Limited. The file consists of:

1 copy of the survey report by Canplan Consultants Limited.
1 Technical appendix package containing maps, drawings, and a geological report.
1 set of seismic records, labelled:
"Halifax Harbour Bottom Survey Seismic Reflection Profiles 3.5-7.0 KHZ Profiler & Sparker Correlated. Set #2"
1 set of Side Scan Sonar records Set #2.

Examination Points: GSC Library in Dartmouth only. Copies available from Precision Microfilming Service, Halifax or Telex: WESTHEM 019-22720. Price: $300.00.

OPEN FILE 284 Preliminary draft of a surficial geology map of Charlie Lake map-area, British Columbia (NTS 94A) by W.H. Mathews. Scale 1:250,000. The maps shows the distribution of surficial materials and landforms and the location of erratics derived from eastern and western sources. Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from the GSC Vancouver office, Vancouver.

OPEN FILE 285 Preliminary drafts of 8 photomosaic maps of Boothia Peninsula and adjacent northern Keewatin (NTS 57 A-G; 58 D,E,G) showing the distribution of materials and landforms with an explanatory legend that includes data on materials, morphology, drainage, permafrost features and comments on the distribution of materials. Prepared by A.N. Boydell, K.A. Drabinsky and J.A. Netterville based on field work 1974. Scale: 1:125,000.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 286- Geological maps of parts of Northeastern British Columbia and Northwestern Alberta, compiled by D.F. Stott and G.C. Taylor. Unedited geological synthesis of those parts of Wapiti (83L), Monkman Pass (93I), Pine Pass (93O) and Dawson Creek (93P) map-areas of northeastern British Columbia and northwestern Alberta underlain by Jurassic and Cretaceous rocks. Scale: 1:125,000. Composite legend for maps is included. Geology is based on field work by officers of the Geological Survey of Canada between 1958 and 1972.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 287 Magnetic Tape of geochemical data from analysis of canned cuttings by L.R. Snowdon. Magnetic Tape 1005 contains geochemical data derived from analysis of canned drill cuttings collected at intervals of between 30 and 50 feet in various wells drilled in the Arctic Islands, Yukon and mainland, Northwest Territories. The tape is accompanied by typed pages including (1) a list of wells included in the file; (2) Table 1, giving tape characteristics; (3) Table 2, giving the card image format and parameter units. Analytical procedures are described in:

Snowdon, L.R. and McCrossan, R.G.
1973: Identification of petroleum source rocks using hydrocarbon gas and organic carbon content; GSC Paper 72-36.
Snowdon, L.R. and Roy, K.J.
1975: Regional organic metamorphism in the Sverdrup basin; Bull. Can. Petrol. Geol., Vol. 23, no. 1, P. 131-148.

Examination Points: Not available for examination at any of the offices. Copies available for sale at user's expense by application to Riley's Data Share International Limited, Calgary.

OPEN FILE 288 Geological and mineral deposits of maps of Lardeau (w1/2) map-area (NTS 82 K with legend (unedited) scale: 1:125,000. Compilation of mineral deposits, for north half of area only, available as separate sheet. Geological field work by J.O. Wheeler and P.B. Read. Final compilation by P.B. Read, 1975.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from Riley Data Share International Limited, Calgary and the GSC Information Services Unit, Vancouver, B.C.

OPEN FILE 289 Mineral Deposit-Land Use Map, Whitehorse, Yukon Territory (NTS 105D). Map and accompanying notes provides an appraisal of mineral potential to be used as an aid in evaluation and overall land use studies. Scale: 1:250,000.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Also at Mineral Resources Branch, Department of Mines and Petroleum Resources, Victoria, B.C. Copies available from We Healdath Consultants Limited, Victoria, B.C.

OPEN FILE 290 Mineral Deposit-Land Use Maps, British Columbia: 7 sheets; Seymour Arm (82M), Canoe River (83D), Bonapart (92P), Quesnol Lake (93A), McBride (93H), Halfway River (94B) and Rabbit River (94M). These maps were produced in co-operation with the British Columbia Dept. of Mines and Petroleum Resources. Maps and accompanying notes provide an appraisal of mineral potential to be used as an aid in evaluation and overall land use studies. Scale: 1:250,000.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Also at Mineral Resources Branch, Dept. of Mines and Petroleum Resources, Victoria, B.C. Copies available from Mineral Resources Branch, Dept. of Mines and Petroleum Resources, Victoria, B.C.

OPEN FILE 291 Moose River Basin, Ontario/Quebec. Two figures prepared to accompany GSC Memoir 379 by B.V. Sanford and A.W. Norris were placed on Open File in advance of the publication of the Memoir.
Figure 3: Station locality map of Devonian Rocks in the Moose River Basin.
Figure 4: Geological map of Devonian Rocks in the Moose River Basin: scale 1:500,000; Lat. 50°00' to 53°00'; Long. 78°00' to 86°00' (printed in colour).
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. A limited number of these figures will be available from the Geological Survey of Canada, Publication Office, 601 Booth Street, Ottawa, Ont. Price: $2.00. Prepayment required.

OPEN FILE 292 Unedited manuscript by J.R. Bélanger illustrating and explaining a Data Record sheet to record geoscientific test hole information in a computer processable form. UGAIS DATA RECORD MANUAL.
Examintation Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Copies available from Geological Survey Publications Office, Ottawa.

OPEN FILE 293 Northeast Pacific and Bering Sea Magnetic Data. Digital shipborne magnetic data collected by Canadian Hydrographic Service and Geological Survey of Canada over tracklines between Juan de Fuca Strait, B.C. and Icy Cape, Alaska, are available on magnetic tape. The data consist of 73,000 data points (approximately) over seven separate tracklines totalling 30,000 kilometers. Five tracklines are parallel and separated by about 15 kilometers over the Northeast Pacific Ocean. The tape lists date and time, latitude and longitude, and total field in games.
Examination Points: This file is not available for examination at any of the offices.
Copies available from Computer Science Centre, EMR, Ottawa.

OPEN FILE 294 Preliminary unedited drafts of three surficial geology maps of District of Mackenzie, N.W.T. by P.T. Hanley, S.C. Chatwin, O.L. Hughes and J. Pilon. Scale: 1:125,000. The maps are: Norman Wells (96E); Mahoney Lake (96F) and Canot Lake (106P). Field work on these maps was completed as follows: Canot Lake in 1973; Norman Wells and Mahoney Lake in 1975.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available from Riley's Data Share International Limited, Calgary.

OPEN FILE 295 Manuscript report by J.R. Bélanger that includes a general description of the ISAMAP (Isarithmic Mapping) system, a discussion of the interpolation algorithm and a user's guide.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Copies available at no cost from Publications Distribution Office, GSC, Ottawa.

OPEN FILE 296 Preliminary drafts of 10 surficial geology photomosaic maps and legends (7p.) of part of southern Labrador (NTS 23 H/1,2,7,8,9,10,11,14,15,16) by R.D. Thomas, W.A.D. Edwards and R.F.Fulton compiled from data collected during the 1971 field season. Scale: 1:50,000. These maps show the distribution of surficial materials and landforms; map-units are based on the genesis of the material, its morphology and, where appropriate, its texture. Geologic data have been plotted on uncontrolled airphoto mosaics.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Copies available from K.G. Campbell Corporation Limited, Ottawa.

OPEN FILE 297 Paleontological reports with biostratigraphical zonations on seven wells drilled in Arctic Canada. The following reports by various authors from Paleo Services Limited (Wells 1-3) and Robertson Research (North America) Limited (Wells 4-7) of Calgary, Alberta comprise studies done under contract for the Geological Survey of Canada.
1/ Biostratigraphic zonation: Shell Aklavik A-37 well, Northwest Territories.
36 pages of text, 3 charts and 1 log (biostrat).
2/ Biostratigraphic zonation; Gulf Mobil East Reindeer G-04 well, Northwest Territories.
42 pages of text, 3 charts and 1 log (biostrat.).
3/ Biostratigraphic zonation; I.O.E. Blow River YT E-47 well, Yukon Territory.
36 pages of text, 1 chart and 1 log (biostrat).
4/ The micropaleontology, palynology and stratigraphy of the Panarctic Homestead Hecla J-60 well.
34pages of text, 1 appendix and 2 charts. Report No. 31, May 1973.
5/ The micropaleontology, palynology and stratigraphy of the Panarctic Amund Central Dome H-40 well.
22 pages of text, 1 appendix and 2 charts. Report No. 35, June, 1973.
6/ The micropaleontology, palynology and stratigraphy of the Elf Wilkins E-60 well.
33 pages of text, 1 appendix and 2 charts. Report No. 40, August, 1973.
7/ The micropaleontology, palynology and stratigraphy of Sun KR Panarctic Skybattle Bay C-15 well.
47 pages of text, 1 appendix and 3 charts. Report No. 65, March 1974.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth.
Not available for sale.

OPEN FILE 298

An interesting occurrence of mineralization was reported by one of the Geological Survey of Canada Field Parties working the District of Mackenzie during the 1975 field season. Copper mineralization was observed in a zone of grained, greenish grey clastic rocks interbedded with limestone along the basal part of the Copper Cap Formation, Redstone River Area, N.W.T. between point A (127°05'W, 63°14'N) and B (127°01'W, 63°18'N) for about 6 km along the trend.
Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Also available for viewing at the offices of the Resident Geologist, Dept. of IAND, Whitehorse, Yukon and Yellowknife, N.W.T. Copies available for free distribution from the above mentioned offices.

OPEN FILE 299

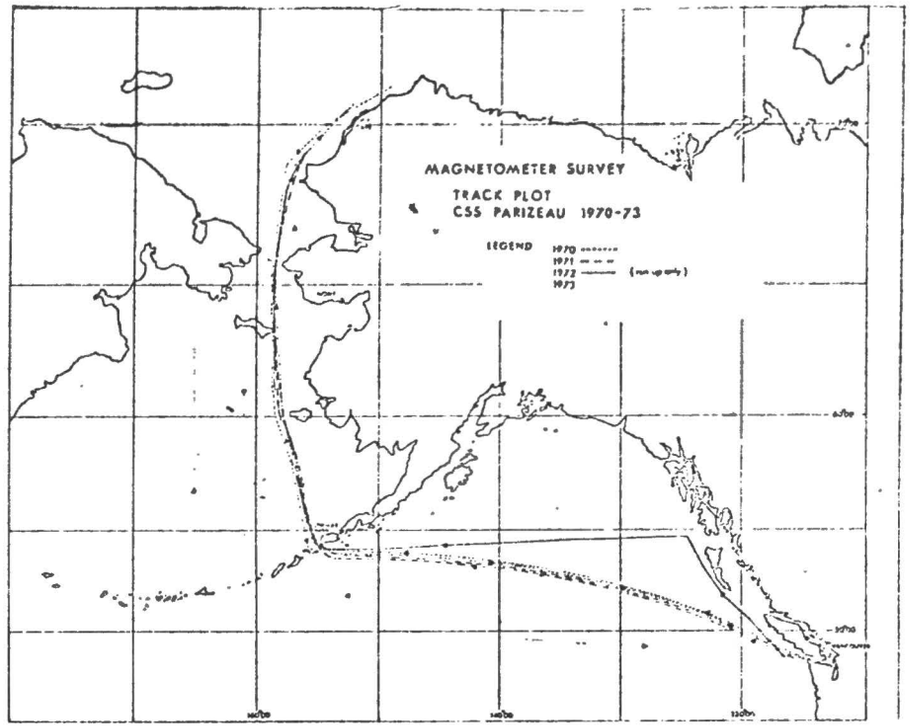
N.E. Pacific and Bering Sea Magnetic Data: This file consists of digital magnetic data gathered by the Geological Survey of Canada, Vancouver, B.C. from C.S.S. Parizeau during transit to and from the western Arctic from 1970 to 1973. Navigation fixes are by the Canadian Hydrographic Service, using a satellite navigation receiver supplemented, where possible, by radar.
A Barringer OM104 Proton Procession Magnetometer was used to measure total magnetic field intensity. A digital data logging system recorded day, minute and magnetic values at six second intervals on paper tape. The data was transferred to magnetic tape, the six second values averaged over one minute, edited and merged with the navigation. No correction has been made for any diurnal variations.
The tape consists of approximately 71,000 data points which represents approximately 30,000 kilometres of ship's track over the track lines shown in the accompanying diagram. The breakdown by year is:

1. 1970 - 23,000 - data points;
2. 1971 - 16,500 - data points;
3. 1972 - 9,000 - data points:
4. 1973 - 24,000 - data points.

The small sample in 1972 is due to the fact that data was collected on the run up only. Each record contains the following information: Line, year, day (Julian), time (GMT), latitude, longitude, total field (gammas), and water depth (feet) where available on tape.
Copies of the tape can be obtained at the user's expense by application to the Computer Science Centre, Dept. of Energy, Mines & Resources, Ottawa.

Diagram on next page.

OPEN FILE 299
(Con't)



OPEN FILE 300 Selected bibliography on the geology of Canadian deposits and occurrences of Uranium and Thorium compiled by Denyse M. Garneau. Guidelines in the compilation are as follows: 1/ References are principally geological and mineralogical and apply largely to deposits and occurrences of uranium. 2/ Certain geological reports that make no reference to uranium, because many predate the discovery of uranium, are included as important sources of geological information. These reports are marked in this publication with an asterisk (*) so that the reader will not search in vain for such reference. 3/ Geophysical and geochemical reports are included only if they deal with specific deposits or occurrences. 4/ General reports dealing with the whole of Canada, The Provinces and the Territories are listed first, followed by indexing under the National Topographic System. Reports dealing with well known uranium districts, such as Elliot Lake or Beaverlodge, are grouped under the appropriate heading but their position in the list of references is governed by the NTS System. 5/ The bibliography of thorium deposits and occurrences follows that on uranium. EXAMINATION POINTS: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Sold by GSC Publications Office, Ottawa.

OPEN FILE 301 A bathymetry map of the continental shelf, slope and ocean basin off western Canada has been compiled at a scale of 1:1,000,000 by D.L. Tiffin and D. Seeman, 1975. Contour interval is 20 meters on the shelf and 50 meters in the ocean basin. The information extends to approximately 300 kilometers off shore. Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available at user's expense from Vancal Reproductions Limited, Vancouver.

OPEN FILE 302 Unedited geological synthesis of those parts of Northwest Territories covered by Mackenzie Delta (107 C) and Aklavik (107B) with a composite legend. Compiled by D.K. Norris. Scale: 1:250,000. Geology based on field work by officers of the Geological Survey of Canada (and of oil company geological departments) between 1961 and 1975. Item includes ten pages of text comprising Acknowledgments, Index maps, Schedules of wells and Geological Symbols. Examination Points: GSC Libraries in Ottawa, Calgary, Vancouver and Dartmouth. Copies available at user's expense by application to Riley's Data Share International Limited, Calgary.

OPEN FILE 303

To be released in January/76 Information Circular.

O.F. 303 GEOLOGICAL MAPS OF NORTHWEST TERRITORIES AND YUKON TERRITORY COMPILED BY D.K. NORRIS

Unedited geological synthesis of those parts of Northwest Territories and Yukon Territory covered by Martin House (NTS 106 K); Trail River (NTS 106 L); Fort McPherson (NTS 106 M) and Arctic Red River (NTS 106 N) map-areas, with a composite legend compiled by D.K. Norris. Scale: 1:250 000. Geology is based on field work by officers of the Geological Survey of Canada and of oil company and university geological departments between 1961 and 1975. The file consists of fifteen pages of text comprising acknowledgments, index maps, schedules of wells, table of geological symbols, table of abbreviations of geological time terms and a correlation table.

Copies may be obtained at the user's expense by application to Riley's Data Share International Limited, 631 - 8th Avenue S.W., Calgary, Alberta T2P 0W9.

OPEN FILE 304

To be released in January/76 Information Circular.

O.F. 304 GEOLOGY OF NORMAN WELLS (NTS 96 E) AND MAHONY LAKE (NTS 96 F) MAP AREAS, DISTRICT OF MACKENZIE, N.W.T.

Unedited geological maps with legends of part of the Northwest Territories covered by Norman Wells (NTS 96 E) and Mahony Lake (NTS 96 F) map-areas, Scale: 1:250 000. Geology is based on field work by D.G. Cook, J.D. Aitken and other officers of the Geological Survey in 1968, 1969, 1970 and 1973.

Copies may be obtained at the user's expense by application to Riley's Data Share International Limited, 631 - 8th Avenue S.W., Calgary, Alberta T2P 0W9.

OPEN FILE 305 Aeromagnetic Survey Operations - Computer Program For the Field Checking of Digitally-Recorded Data. In the experimental high resolution aeromagnetic survey operations carried out using the GSC Queenair B80 aircraft, the digitally-recorded data are checked in the field using a Interdata 70 minicomputer and peripheral equipment. Such a procedure ensures as much as possible that the aeromagnetic survey system is functioning normally and thereby reduces costly reflights to a minimum. D.W. Olson has programmed the Interdata 70 to perform a variety of tasks, which fall into four sub-programs as follows:
1/ Printout of data blocks in an easily read format. 2/ Profile plotting. 3/ Duplication of magnetic tape. 4/ Magnetic tape search and positioning.
The programs are written in Interdata assembler language and are filed in source form. The system peripheral equipment that the programs are written for are a Cipher 7-track 556 B.P.I. magnetic tape drive and a Versatek Matrix printer/plotter. Because the software is tailored for specific hardware with in-house designed and built interfaces, no responsibility can be assumed for problems encountered when the user attempts to run these programs using systems other than that specified above. For further information on system usage, those interested should refer to the article by D.W. Olson entitled "Procedure for field checking of digitally-recorded high resolution aeromagnetic data"; in Report of Activities, Part A, GSC Paper 74-1A, p. 91-94, 1973. Copies of the computer programs may be obtained at a cost of $200.00 by cheque each by application to the Computer Science Centre, EMR, Ottawa.

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