INDEX TO DEPOSITS

(See Table VIII page 137 for further information)

	NORTHWEST TERRITORIES	LAT.	LONG.	N.T.S.
1	Melville Island Oil Sands	76°11'00"	115°00'00"	89
2	Muskox Igneous Complex	66°35'00"	115°00'00"	86
3	Coppermine River basalts	67°15'00"	116°00'00"	86
4	Eldorado Pitchblende Deposit	66°05'00"	118°04'00"	86
5	Yellowknife Bay Gabbro	62°30'20"	114°16'00"	85
6	François River Basic Complex	62°05'00"	112°50'00"	85
	YUKON TERRITORY			
1	Barn Mountain	68°35'00"	138°10'00"	117
2	South Fork Macmillan River	62°52'00"	130°40'00"	105
3	Watson Lake	60°-61°	129°00'00"	105
	BRITISH COLUMBIA			
1	Northern British Columbia	59°00'00"	130°30'00"	104
2	Northern British Columbia	58°-59°	125°-127°	94
3	Springiron Lake	57°58'00"	125°45'00"	94
4	Fort Nelson	58°38'00"	124°25'00"	94
5	McConnell Creek Placer Deposit	56°47'00"	126°29'00"	94
6	Sikanni Chief River	57°15'00"	122°42'30"	94
7	Prince Rupert	54°16'00"	130°17'00"	103
8	Porcher Island	53°55'00"	130°24'00"	103
9	McCawley Island	53°40'00"	130°15'00"	103
10	Banks Island	53°24'00"	130°00'00"	103
11	Tsitsutl Mountain	54°58'00"	125°37'00"	93
12	Bouron River	53°50'00"	121°55'00"	93
13	Quesnel	53°10'40"	122°30'00"	93
14	Australian Creek	52°41'20"	123°25'35"	93
15	Menzies Bay (North Location)	50°09'06"	125°25'06"	92
16	Menzies Bay (South Location)	50°06'30"	125°23'20"	92
17	Quadra (Valdes) Island	50°07'10"	125°15'40"	92
18	Cumberland	49°38'00"	125°02'00"	92
19	Nanaimo	49°11'30"	123°57'00"	92
20	East Sooke Peninsula	48°20'30"	123°42'00"	92
21	Minto	50°52'00"	122°48'00"	92
22	Chu Chua	51°20'00"	120°10'00"	92
23	Hat Creek	50°53'00"	121°30'00"	92
24	Cherry Bluff	50°43'00"	120°36'00"	92
25	Nicola; Thompson River, Spence Bridge	50°10'00"	120°30'00"	92
26	Merritt	50°06'00"	120°47'00"	92
27	Princeton	49°30'00"	120°41'00"	92
28	Copper Mountain	49°22'00"	120°34'00"	92
29	Hope	49°24'00"	121°26'00"	92
30	Lodestone Mountain	49°27'00"	120°50'00"	92
	ALBERTA			
1	Andrew Lake	59°50'00"	110°10'00"	74
2	Athabasca Tar Sands	56°42'00"	111°24'00"	74
3	Peace River Iron Deposits	56°30'00"	118°30'00"	84
4	Edson	53°32'00"	116°26'00"	83
5	Jasper	52°50'00"	118°04'00"	83
6	Edmonton	53°25'00"	113°38'00"	83
7	Banff	51°11'00"	115°32'00"	82
8	Kananaskis River	51°05'30"	115°03'00"	82
9	Drumheller	51°25'30"	112°36'00"	82
10	Crowe Mine	49°38'00"	114°44'00"	82
11	Crowsnest Pass	49°37'30"	114°42'00"	82
12	Burmis	49°40'30"	114°19'30"	82
13	Dungarvan Creek	49°12'00"	113°54'00"	82
	SASKATCHEWAN			
1	Beaverlodge Uranium Ores	59°28'00"	108°24'00"	74
2	Granite and Johnson Lakes	54°50'00"	102°25'00"	63
3	Esterhazy	50°40'00"	102°07'00"	62
4	Southern Saskatchewan Lignite Deposits	49°-50°	104°-107°	62,72

	MANITOBA	LAT.	LONG.	N.T.S.
1	Wilson Lake	55°15'00"	101°05'00"	63
2	Star Lake	55°10'00"	100°52'00"	63
3	Cross (Pipestone) Lake	54°30'00"	97°25'00"	63
4	Swan River	52°05'00"	101°15'00"	63
5	Bird River	50°25'00"	95°42'00"	52
6	Morden	49°05'00"	98°22'00"	62
	ONTARIO			
1	Northwestern Ontario			52,42
2	Gordon Lake	84°43'00"	95°02'00"	52
3	Bad Vermilion Lake	48°42'30"	92°44'50"	52
4	Steeprock Lake	48°48'00"	91°37'00"	52
5	Puddy Lake	49°58'00"	89°31'00"	52
6	Black Bay	48°40'00"	88°32'00"	52
7	Haystack Mountain	50°01'00"	88°34'00"	52
8	Nipigon	49°01'00"	88°04'00"	52
9	Barnoss Lake	48°48'30"	86°19'30"	42
10	Pic River	48°42'30"	86°17'00"	42
11	Nemegos, Nemegosenda R. and Lackner L.	47°59'00"	83°07'00"	41
12	Sault Ste. Marie (north of)	46°56'30"	84°34'00"	41
13	Sault Ste. Marie	46°31'00"	84°25'00"	41
14	Manitoulin Island	45°58'30"	81°55'00"	41
15	Spanish	46°11'20"	82°21'00"	41
16	Chelmsford	46°34'00"	81°13'00"	41
17	Veuve River	46°28'00"	80°30'00"	41
18	Timagami	47°08'00"	79°47'00"	31
19	Cobalt	47°24'00"	79°40'00"	31
20	Angus and Flett Townships	46°51'00"	79°33'00"	31
21	Eastern Ontario			31
22	Lount Township	45°46'00"	79°40'00"	31
23	Brazeau-Wood property	46°13'00"	78°42'00"	31
24	Mattawa	46°18'00"	78°43'00"	31
25	Pusey or Pine Lake	44°55'00"	78°23'00"	31
26	Blithfield	45°18'00"	76°45'00"	31
27	Innisville	45°07'00"	76°14'00"	31
28	Elgin	44°36'00"	76°13'00"	31
29	Blessington	44°40'00"	76°42'00"	31
30	Matthews and Chaffey	44°38'00"	76°20'00"	31
31	Orton and Ricketts	44°42'00"	77°40'00"	31
32	Pershing	44°26'00"	77°51'00"	31
33	Milton	43°30'00"	79°55'00"	30
34	Kettle Point	43°13'00"	82°01'00"	40

	QUEBEC	LAT.	LONG.	N.T.S.
1	Bell River	49°40'00"	77°30'00"	32
2	Fort Coulonge	45°51'30"	76°37'40"	31
3	Gatineau Hills			31
4	Haycock Mine	45°34'00"	75°44'00"	31
5	Oka Alkaline Intrusion	45°28'00"	74°05'00"	31
6	Morin Anorthosite Area	46°05'00"	74°21'00"	31
7	Grondin Mine	46°30'00"	72°53'00"	31
8	Portage Island	49°53'45"	74°14'10"	32
9	Doré Lake	49°54'00"	74°15'00"	32
10	Caché Lake	49°49'00"	74°24'00"	32
11	Chibougamau Anorthosite Area	49°-50°	74°-74°30'	32
12	Lemoine Township	49°47'00"	74°07'00"	32
13	Rintret Township	49°49'25"	74°00'40"	32
14	Magnetite Bay	49°53'25"	74°07'00"	32
15	St. Urbain	47°33'00"	70°32'00"	21
16	Lac St. Jean Anorthosite Area	48°16'00"	71°25'00"	22
17	Lyonne Township	48°25'30"	72°37'00"	32
18	Moquin	48°26'00"	71°26'00"	22
19	St. Charles	48°31'00"	71°28'00"	22
20	Sept-Iles Bay	50°16'30"	66°25'00"	22
21	North Shore of St. Lawrence River			12
22	Lac Allard-Romaine River Area	50°33'00"	63°25'00"	12
23	Magpie Mountain	51°24'00"	64°05'00"	22
24	Coleraine	45°59'00"	71°21'00"	21
25	Rivière du Loup	47°49'00"	69°30'00"	21
26	Pointe-à-la-Garde	48°07'00"	66°35'00"	22
27	Port Daniel	48°11'00"	64°56'00"	22
28	Gaspé (North of)	48°54'00"	64°42'00"	22
	NEW BRUNSWICK			
1	Cox's Landing	47°51'00"	66°56'00"	21
2	Shippegan Island	47°50'00"	64°34'00"	21
3	Boiestown	46°26'00"	66°23'00"	21
4	Fredericton	45°58'00"	66°50'00"	21
5	Harvey Station	45°43'00"	67°09'00"	21
6	York Mills	45°40'00"	67°07'00"	21
7	St. Stephen	45°13'00"	67°15'00"	21
8	Hampton	45°30'00"	65°50'00"	21
9	Upham	45°29'00"	65°40'00"	21
10	Albert Mines	45°54'00"	64°41'00"	21
11	Hopewell Cape	45°52'00"	64°36'00"	21

	NOVA SCOTIA	LAT.	LONG.	N.T.S.
1	Torbrook	44°55'00"	64°58'00"	21
2	Londonderry	45°29'00"	63°36'00"	11
3	Gravois Point-Malagash Point	45°48'00"	63°20'00"	11
4	Oliver	45°39'30"	63°19'00"	11
5	New Glasgow	45°35'00"	62°37'00"	11
6	West River St. Mary's	45°17'00"	62°26'00"	11
7	Baddeck	46°08'00"	60°48'00"	11
8	Salmon River	45°52'00"	60°25'00"	11
	PRINCE EDWARD ISLAND			
1	Little Miminegash Pond	46°42'00"	64°12'00"	21
2	Kelly Cross	46°16'00"	63°30'00"	11
	NEWFOUNDLAND			
1	Lake Michikamau	54°42'00"	63°46'00"	13
2	Magnetite Lake	54°12'00"	63°50'00"	13
3	Mealy Mountains	53°30'00"	59°30'00"	13
4	Humber Valley	49°18'00"	57°27'00"	12
5	Bay of Islands Igneous Complex	48°50'00"	58°30'00"	12
6	Indian Head	48°30'00"	58°30'00"	12
7	Upper and Lower Drill Brook Mines	48°32'00"	58°29'00"	12
8	Labrador Pond	48°30'00"	58°28'00"	12
9	Bishop North	48°24'00"	58°18'00"	12
10	Bishop South	48°24'00"	58°20'00"	12
11	Hayes Prospect	48°23'00"	58°24'00"	12
12	Crabbe's Brook	48°10'30"	58°40'00"	12
13	Wabana Iron Mines	47°36'00"	52°36'00"	1
14	Manuels River, Conception Bay	47°29'00"	52°55'00"	1
15	Avalon Peninsula	47°-48°	52°-54°	1

L E G E N D

Lithology indicated by patterns or by lower case letters to the right of the age designations

Age of rocks is indicated by capital letters. Modifications are shown to the left by lower case letters (l–lower, m–middle, u–upper) and/or by numbers (1 being the oldest)

Carbonate, shale, sandstone, conglomerate, coal, evaporites, iron-formation; cratonic cover and miogeosynclinal, exogeosynclinal and foredeep sequences; little metamorphosed or unmetamorphosed ..... no pattern or modifier

Non-marine sandstone, shale, coal; red-bed sandstone conglomerate shale; marine sandstone, shown only on cratonic cover and the continental shelf miogeosynclinal, foredeep and exogeosynclinal sequences .....

Slate, phyllite, schist, greywacke, quartzite, conglomerate, chert, iron-formation, carbonate; eugeosynclinal sedimentary sequences; mainly metamorphosed, partly high grade .....

Volcanic flows and pyroclastic rocks; may include some intrusive rocks; unmetamorphosed or metamorphosed .....

Mainly basic and intermediate volcanic rocks .....

Mainly acidic and mixed volcanic rocks .....

Grauss and schist derived from sedimentary rocks; may include volcanic rocks and granitic material .....

Granulite and charnockite .....

Amphibolite; mainly metamorphosed basic extrusive and intrusive rocks .....

Granitic gneiss, migmatite, undifferenciated plutonic, sedimentary and volcanic rocks; includes some unmapped areas .....

Granite and allied plutonic rocks .....

Syenite and alkalic rocks .....

Manganite .....

Gabbro, diorite .....

Diabase .....

Anorthosite .....

Dunite, pyroxenite, serpentinite .....

Geological contact (mapped, unmapped or underwater) .....

Fault (mapped, extrapolated or underwater) .....

Fault (inferred from aeromagnetic maps) .....

Transcurrent fault (dextral, sinistral) .....

Fault (hachures on hanging wall) .....

Thrust fault (teeth on hanging wall) .....

Underwater sample location .....

Carbonatite intrusion .....

Ultramafic intrusion .....

Gypsum diapir .....

Glacier, ice-cap, ice-field .....

Note: Age designations of the sedimentary and volcanic rocks and their metamorphic equivalents are meant to be the time of their original deposition or extrusion as determined by paleontological methods for Phanerozoic rocks and by structural, lithological and radiometric means for Precambrian rocks. Age designations of the igneous and plutonic rocks are meant to be the time interval of the orogeny during which they were intruded or emplaced.

For the igneous and plutonic rocks a prime (') is used to indicate an age designation that is older than the radiometric age obtained mainly by potassium-argon methods. These rocks probably form part of a crystalline basement that has been regionally metamorphosed, but it is not known whether they have been remobilized or remelted.

Geology derived from published and unpublished maps and reports of the Geological Survey of Canada, the provincial departments of mines, United States Geological Survey, state geological surveys, mining and petroleum companies and other sources.

Geology compiled by R. J. W. Douglas, 1966, 1967

Cartography by the Geological Survey of Canada, 1968

CENOZOIC

QUATERNARY — Q; Qv

TERTIARY — T; uT, uTv, pT, mT; lT; T; Tg, Tv, Tb; T; T, Tv, IT, ITv, pT; 61–Pliocene, mo–Miocene, 5 – Oligocene, 6 – Paleocene

MESOZOIC

CRETACEOUS — UPPER CRETACEOUS: K; uK, uKv, 1–9 uK; 1–Cenomanian, 2 – Cenomanian to Santonian, 3, 4 – early Campanian, 5 – mid-Campanian, 6 – late Campanian, 7 – Cenomanian to late Campanian, 8 – Campanian and Maestrichtian, 9 – Maestrichtian. LOWER CRETACEOUS: K; lK, lKv, mainly Albian; may include Upper Cretaceous and Upper Jurassic

JURASSIC — J; lJ, lv, lr; J; Kg, Jb

TRIASSIC — Ts; lTs, Tv; Ts; Tg, Tr; Ts; Tsub

PALAEOZOIC

PERMIAN — P; P, Pv, Pv; P; Psb

CARBONIFEROUS — PENNSYLVANIAN: P; P, Pv; MISSISSIPPIAN: M; M, Mv; C; Cg

DEVONIAN — D; D, Dv, uD, uDv; may include some Middle Devonian; D; Dg, Dy, Db; lD; lDs, lDv, lDn; may include some Middle Devonian

SILURIAN — S; S, Sv, lS, lmS, mS, uS

ORDOVICIAN — O; O, Ov, uO, mO, lO; O; Og, Oy, Ob; Os; Os, Ov; may include some Lower Devonian; O; Oub

CAMBRIAN — C; C, lC, mC, uC; C; Cs, lCv, Cn

PROTEROZOIC

HADRYNIAN — H; H; Hg, Hy; H; Hs, Hv; H; Hs; H; Hn; Gabbro dyke

HELIKIAN — NEOHELIKIAN: N; N; Ng, Ny, Ngn; N; Nv, Nv; N; Nb; PALEOHELIKIAN: N; N; Nvb; P; P, lP, uP; Pg, zPg, Py, Pys, Pyn, Pgn; P; Pb; P; Pn, Pnb; P; Pa

APHEBIAN — A; A, l–uA, mA, uA; A; Ag, Ay; A; Ag; A; Ag, Av; A; Ags; A; An; A; As; A; Asb; A; Ab; Ad, Am; A; Gabbro dyke

ARCHAEAN

A; As; A; zAs; relatively young; A; rAg; relatively old; A; Av; A; Agn; A; Ac; A; Ab, Am; A; zAs; relatively young; A; Aa; A; Ash; A; Aub

LATE TERTIARY AND QUATERNARY — TQ; TQv

CRETACEOUS AND TERTIARY — UPPER CRETACEOUS AND TERTIARY: KT; KTv

CRETACEOUS — K; Kg, Ky; K; Kb

JURASSIC AND CRETACEOUS — LATE JURASSIC AND LOWER CRETACEOUS: JK; JK, JKs

TRIASSIC AND JURASSIC — TrJ; TrJs, TrJv

CARBONIFEROUS AND PERMIAN — CP; CP, CPv

PENNSYLVANIAN AND PERMIAN — PP

DEVONIAN AND CARBONIFEROUS — DC; May include some Permian; DC; DCs, DCv; DC; DCsb

SILURIAN AND DEVONIAN — SD; SD, SDs, SDv

ORDOVICIAN AND SILURIAN — OS; OS, OSv

CAMBRIAN AND ORDOVICIAN — CO; CO, COs, COv

HADRYNIAN AND CAMBRIAN — HC; HCs, HCn

HELIKIAN AND HADRYNIAN — HH; H

HELIKIAN — H; H; Hs, Hv; Gabbro dyke

APHEBIAN AND HELIKIAN — AH; AHn

MESOZOIC — M; M; Mn; M; Mg, Mgn; Gabbro dyke

PALAEOZOIC — OSD; OSDs, OSDv, Ordovician, Silurian, Lower and Middle Devonian; €OS; Upper Cambrian, Ordovician, and Silurian

PALAEOZOIC AND? OLDER — P; P; Ps, lPs, may include some older rocks; P; Pv, lPv, may include some older rocks

HADRYNIAN AND PALAEOZOIC — HP; HPs, Hadrynian and Lower Palaeozoic, may include some Helikian

PROTEROZOIC — P; P, Pv; P; Pn

ARCHAEAN AND/OR PROTEROZOIC — A; see note; A; Ags, see note; A; Ash, see note

GEOLOGICAL SURVEY OF CANADA
DEPARTMENT OF ENERGY, MINES AND RESOURCES

MAP 1321A

MINERAL DEPOSITS MAP

VANADIUM IN CANADA

Scale 1:5,000,000

Miles 100 0 100 200 Miles

Kilometres 100 0 100 200 300 Kilometres

LAMBERT CONFORMAL CONIC PROJECTION; STANDARD PARALLELS 49°N AND 77°N., MODIFIED POLYCONIC PROJECTION NORTH OF LATITUDE 80°N

TYPE OF ORE MATERIAL

- *Titaniferous magnetite*
- *Shale*
- *Coal, bitumen, lignite, graphite*
- *Sandstone*
- *Iron ore*
- *Chromite*
- *Phosphate rock, apatite*
- *Uranium ore*
- *Copper ore*
- *Manganiferous shale*
- *Silver-cobalt mine tailings*

TYPE OF DEPOSIT

- *Intrusive deposit*
- *Aqueo-igneous deposit*
- *Extrusive deposit*
- *Mechanical sediments*
- *Chemical sediments*
- *Biochemical sediments*
- *Metamorphic deposit*
- *Secondary deposit*

SIZE OF DEPOSIT

- *Small (1,000,000 tons)*
- *Medium (1,000,000 to 15,000,000 tons)*
- *Large (more than 15,000,000 tons)*

AGE OF DEPOSIT

Precambrian	P
Paleozoic	P
Mesozoic	M
Cenozoic	C
Recent (unconsolidated)	R

GRADE OF DEPOSIT

- *Very low grade (0.01 to 0.1 per cent V)*
- *Low grade (0.1 to 0.5 per cent V)*
- *Medium grade (0.5 to 1.0 per cent V)*
- *High grade (more than 1.0 per cent V)*

- *Acidic intrusions*
- *Basic and ultrabasic intrusions*
- *Carbonatite and alkalic intrusive complexes* ×
- *Number of deposit in text* 1

ASSOCIATED ELEMENTS

Iron	Fe	*Rare earths*	R.E.	*Oil*	O
Titanium	Ti	*Copper*	Cu	*Tin*	Sn
Chromium	Cr	*Zinc*	Zn	*Coal*	C
Manganese	Mn	*Phosphorus*	P	*Molybdenum*	Mo
Uranium	U	*Gold*	Au	*Nickel*	Ni
Thorium	Th	*Platinum*	Pt	*Niobium*	Nb

EXPLANATORY NOTES

The background geology is printed in grey from 1:2504 "Geological Map of Canada". The numbered primary quadrangles of the National Topographic System are outlined on the grey base. The index to deposits includes reference to the respective quadrangle under the heading "N.T.S."

Prepared by E. R. Rose, 1970

To accompany Economic Geology Report No. 27 by E. R. Rose

Cartography by the Geological Survey of Canada

Published, 1972
Printed by the Surveys and Mapping Branch

This document was produced by scanning the original publication.

Ce document est le produit d'une numérisation par balayage de la publication originale.

Copies of this map may be obtained from the Geological Survey of Canada, Ottawa