

LEGEND

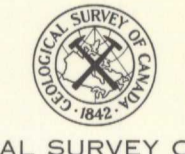
SEDIMENTARY AND VOLCANIC ROCKS

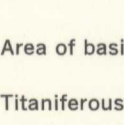
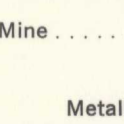
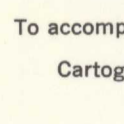
PLEISTOCENE AND RECENT	Q Alluvium, glacial drift, included sand and gravel in District of Franklin may be in part Tertiary
OLIGOCENE	O Sedimentary rocks: sandstone, conglomerate
PALEOCENE AND EOCENE	E Sedimentary rocks: sandstone, shale, conglomerate, coal measures
TERTIARY	Tv Mainly volcanic rocks: basalt, andesite. May include some Upper Cretaceous rocks
	Ts Mainly sedimentary rocks: sandstone, shale, conglomerate, coal measures. Many occurrences on Axel Heberg and Ellesmere Islands not indicated
UPPER CRETACEOUS	Ku Mainly sedimentary rocks: shale, sandstone, conglomerate, marine and non-marine; oil and natural gas, coal, bentonite
LOWER CRETACEOUS	Kl Mainly sedimentary rocks: sandstone, shale, conglomerate, marine and non-marine; oil and natural gas, coal, tar sand. Includes some Tertiary and Jurassic beds south of Peace River
CRETACEOUS (Undivided)	K Sedimentary rocks
JURASSIC AND CRETACEOUS	JK Undivided Jurassic and Lower Cretaceous in Rocky Mountains and District of Franklin
JURASSIC	J Sedimentary and volcanic rocks: argillite, greywacke, sandstone, limestone, andesite, volcanic breccia, tuff. Includes considerable Lower Cretaceous and some Tertiary rocks. Oil in Alberta and Saskatchewan
TRIASSIC	T Sedimentary and volcanic rocks: argillite, quartzite, limestone, andesite, volcanic breccia, tuff. Includes Jurassic rocks. May include some Paleozoic limestone in southwestern Yukon Territory. Natural gas at Fort St. John
MESOZOIC (Undivided)	M Sedimentary and volcanic rocks: some coal measures. Includes some Paleozoic in Yukon Territory
CARBONIFEROUS AND PERMIAN	C Sedimentary and volcanic rocks: argillite, cherty argillite, limestone, quartzite, andesite, volcanic breccia, tuff, sandstone, shale, conglomerate
PENNSYLVANIAN	Cd Mainly sedimentary rocks: sandstone, shale, conglomerate, some volcanic rocks, coal measures
MISSISSIPPIAN	Cm Mainly sedimentary rocks: limestone, shale, sandstone, conglomerate, volcanic rocks: gneiss, andesite, oil and natural gas
DEVONIAN AND CARBONIFEROUS	DC Sedimentary rocks: limestone, dolomite, shale, gneiss, andesite, oil and natural gas. Includes some Cambrian and Frasnian in Rocky Mountains
DEVONIAN	D Sedimentary and volcanic rocks: shale, limestone, dolomite, conglomerate, sandstone, volcanic rocks, salt, oil and natural gas
SILURIAN	S Mainly sedimentary rocks: sandstone, shale, limestone, dolomite, conglomerate; some volcanic rocks: gneiss, salt, oil and natural gas
ORDOVICIAN	O Sedimentary rocks: limestone, dolomite, shale, argillite, sandstone, quartzite, grit, oil and natural gas
ORDOVICIAN AND SILURIAN	OS Sedimentary rocks. Includes some Devonian on mainland north of Great Bear Lake
CAMBRIAN	C Sedimentary rocks: dolomite, limestone, shale, chert, quartzite, sandstone, conglomerate
PALAEZOIC (Undivided)	P Mainly sedimentary rocks. May include some Mesozoic and Precambrian rocks in northern Cordillera and Precambrian rocks on Ellesmere Island
LATE PROTEROZOIC	Pv Sedimentary and volcanic rocks: sandstone, quartzite, conglomerate, shale, iron-formation, basalt. Includes younger rocks in Yukon Territory
	Pvs Sedimentary and volcanic rocks and derived metamorphic rocks: argillite, quartzite, limestone, schist, gneiss, crystalline limestone, andesite, gneissstone. May be in part Paleozoic
EARLY PROTEROZOIC	Pt Sedimentary and volcanic rocks: shale, argillite, slate, chert, limestone, dolomite (faint structural), sandstone, quartzite, andesite, greywacke, conglomerate, andesite, basalt, rhyolite, tuff, volcanic breccia, iron-formation
PROTEROZOIC (Undivided)	P Sedimentary and volcanic rocks
ARCHAEOAN	As Mainly sedimentary and derived metamorphic rocks: argillite, slate, andesite, quartzite, greywacke, conglomerate, sedimentary gneiss and schist, iron-formation. Age, Grenville
	Av Mainly volcanic and derived metamorphic rocks: andesite, diorite, basalt, rhyolite, trachyte; minor volcanic breccia and tuff; greenstone schist, hornblende gneiss
ARCHAEOAN (Undivided)	A Sedimentary, volcanic, and metamorphic rocks

INTRUSIVE ROCKS

MESOZOIC AND CENOZOIC	7 Acid rocks: granodiorite, quartz monzonite, quartz diorite, granite, syenite
	6 Basic and ultrabasic rocks: gabbro, pyroxenite, peridotite
PALAEZOIC	5 Acid, basic, and ultrabasic rocks: granite, and related rocks; peridotite, pyroxenite, gabbro; serpentine, asbestos deposits
PROTEROZOIC	4 Acid rocks: granite, granodiorite, diorite; gneissic rocks in Yukon Territory
	3 Basic rocks: diabase sills and dykes
ARCHAEOAN AND/OR PROTEROZOIC	2 Mainly acid rocks: granodiorite, granite, quartz diorite, granite gneiss. Includes much granitoid sedimentary and volcanic rock. Represents undivided Precambrian in lesser known parts of Canadian Shield
	1 Basic and ultrabasic rocks: mainly anorthosite and gabbro

Geology derived from published and unpublished maps and reports of the Geological Survey of Canada, Provincial Departments of Mines, mining companies, and other sources. Cartography by the Geological Survey of Canada, 1954, with some revisions, 1962.


 GEOLOGICAL SURVEY OF CANADA
 DEPARTMENT OF ENERGY, MINES AND RESOURCES
 MAP 1243A
METALLOGENIC MAP
TITANIFEROUS IN CANADA
 SCALE: 1 INCH TO 120 MILES = 7,620,200
 1:120,000,000
 MILES 0 100 200 300 400
 KILOMETRES 0 100 200 300 400

LEGEND
 Area of basic rocks: mainly anorthosite and gabbro 
 Titaniferous deposit or occurrence, sand 
 Mine 
 Metallogenic data compiled by Edward R. Rose, 1965
 To accompany Economic Geology Report 25 by Edward R. Rose
 Cartography by the Geological Survey of Canada, 1967

Published, 1965
 Copies of this map may be obtained from the
 Director, Geological Survey of Canada, Ottawa

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