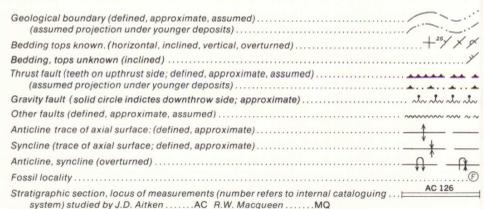


LEGEND

CENOZOIC	QUATERNARY PLEISTOCENE AND RECENT	Qsl	Snowfields and glaciers
		Qls	Landslide deposits: large coherent blocks of carbonate rock (Qisc); heterogeneous mixture of angular blocks of siltstone and silty mudstone up to 100 or more feet across, surface extremely irregular and hummocky (Qis)
		Qd	Till, gravel, sand, silt, alluvium (shown only where bedrock is extensively concealed)
MESOZOIC	CRETACEOUS LOWER CRETACEOUS AND JURASSIC	Jkk	KOOTENAY FORMATION: grey and black, carbonaceous and limonitic sandstone, grey and black siltstone, black, carbonaceous shale and mudstone, coal
	JURASSIC	Jf	FERNIE GROUP dark grey to black shale, dark grey siltstone and sandstone; dark grey, platy, silty, argillaceous limestone; brown limonitic quartz sandstone
PALEOZOIC	TRIASSIC	Twh	SPRAY RIVER GROUP (Tsa-Twb) WHITEHORSE FORMATION: light grey, dolomitic siltstone and sandstone; red, green and buff mudstone and siltstone; limestone and dolomite breccia, gypsum
		Tsm	SULPHUR MOUNTAIN FORMATION: dark grey thin bedded siltstone, silty mudstone, shale, dolomitic siltstone, and silty dolomite
PALEOZOIC	PERMIAN AND PENNSYLVANIAN ROCKY MOUNTAIN GROUP	Ppr	light grey quartz sandstone, dolomitic sandstone, and silty and cherty dolomite; dark grey phosphatic siltstone, shale, limestone, and chert; chert breccia
	MISSISSIPPIAN	Met	ETHERINGTON FORMATION: light grey limestone, cherty limestone, and calcarenitic limestone; dolomite; cherty dolomite; green and red shale; siltstone
PALEOZOIC		Mmh	MOUNT HEAD FORMATION: dense dark grey and black limestone and argillaceous dolomite; grey, limestone and calcarenitic limestone; cherty and silty dolomite and limestone
		Mlv	LIVINGSTONE FORMATION: light grey skeletal calcarenite and calcarenitic limestone, cherty limestone; dolomite
PALEOZOIC		Mbf	EXSHAW AND BANFF FORMATIONS: dark grey finely crystalline argillaceous, thin-bedded limestone; dark brownish grey, thin-bedded and fissile shale and calcareous shale, argillaceous skeletal calcarenitic limestone; cherty limestone, dolomite
		Mbl	Lower Part: dark grey and brownish grey shale, calcareous shale, argillaceous limestone, and cherty limestone
PALEOZOIC	DEVONIAN UPPER DEVONIAN	Dpa	PALLISER FORMATION: thickly bedded and massive, mottled dolomitic limestone, grey dense limestone, and grey-brown dolomite
		Dax	ALEXO FORMATION: thinly bedded silty dolomite, dolomitic sandstone; light grey dolomite; breccia
PALEOZOIC		Dsa	FAIRHOLME GROUP (Dsa-Dsb) SOUTHWEST FORMATION: massive to thick-bedded light to medium grey finely to coarsely crystalline dolomite; some medium to dark brownish grey dolomite; minor local breccia
		Dca	CAIRN FORMATION: massive, dark brownish grey and grey, medium crystalline dolomite with Amphipora and stromatopora beds, dark grey (light grey weathering) limestone, dolomitic limestone and calcareous dolomite in the lower part; minor breccia and chert
PALEOZOIC	ORDOVICIAN	Oou	OUTRAM FORMATION: limestone, grey, dense, nodular, rhythmically bedded, with argillaceous and siliceous tracery, much chert, minor brown shale (up to 400')
	ORDOVICIAN AND UPPER CAMBRIAN	Oosp	SURVEY PEAK FORMATION: interbedded shale, grey calcareous, and limestone (partly dense, partly fragmental, partly algal masses); minor chert; basal shales grey to olive, calcareous weathering pale greenish grey; minor limestone, mainly flat pebble conglomerate, and siltstone
PALEOZOIC	CAMBRIAN UPPER CAMBRIAN	Cm	MISTAYA FORMATION: limestone, partly dense, dolomite-mottled, partly fragmental; dolomitized equivalents; minor chert; prominent algal stromatolites (up to 350')
		Cbc	BISON CREEK FORMATION: interbedded shale and mudstone, grey and greenish-grey, calcareous; and limestone, partly fragmental, partly dense (up to 420')
PALEOZOIC		Cbl	LYELL FORMATION: limestone partly dense, dolomite-mottled, partly dense, laminated, locally silty and sandy; mainly massive, dolomitized equivalents (up to 1025')
		Csu	SULLIVAN FORMATION: interbedded shale, greenish grey to brown, calcareous; and limestone, mainly fragmental, partly oolitic; dense algal masses (up to 230')
PALEOZOIC	MIDDLE AND UPPER CAMBRIAN	Cwf	WATERFOWL FORMATION: limestone, mainly dense, with dolomite mottling and laminae, partly silty and sandy; minor fragmental and oolitic limestone; derived secondary dolomite (up to 400')
	MIDDLE CAMBRIAN	Car	ARCTOMYS FORMATION: interbedded shale, purple-red, green and grey; and siltstone, yellow dolomitic, minor dolomite, grey to yellow, mud-cracks, ripple marks, salt crystal casts (up to 400')
PALEOZOIC		Cpk	PIKA FORMATION: limestone, dense, mainly flaggy, with dolomite partings and mottling; minor flat-pebble conglomerate and oolite, derived secondary dolomite, minor shale near base (up to 525')
		Cel	ELDON FORMATION: limestone, mainly dense, dolomite-mottled, massive; dolomite line to coarse-crystalline, largely mottled, largely or entirely secondary (up to 900')
PALEOZOIC		Cst	STEPHEN FORMATION: interbedded shale, grey to green; and limestone, partly dense, flaggy with dolomite partings, partly fragmental, minor oolite (up to 225')
		Cca	CATHEDRAL FORMATION: limestone, mainly dense, massive, dolomite-mottled; dolomitized equivalents; mainly mottled (up to 950')
PALEOZOIC		Cmw	MOUNT WHYTE FORMATION: interbedded shale, greenish-grey; siltstone, green to grey; and limestone, mainly fragmental, partly oolitic (up to 300')
	LOWER CAMBRIAN AND EARLIER (?)	Cgg	Mainly sandstone and quartzite, yellow-grey to white, thin to thick-bedded, partly glauconitic, minor shale, grey, green, purple-red (up to 1200')
PROTEROZOIC	WINDERMERE (HADRYANIAN) METE GROUP	Eml	Grey slate, shale, and siltstone; poorly sorted grey and greenish grey feldspathic quartz sandstone and pebble and granule conglomerate; green and purple slate; dense limestone and sandy limestone conglomerate

Note 1: Undifferentiated Cathedral, Stephen, Eldon, Pika, Arctomys, Waterfowl, Sullivan, Lyell, Bison Creek, Mistaya and Survey Peak Formations



Geology by R.A. Price and E.W. Mountjoy based on studies of vertical air photographs (1964-1967) ground and air observations by J.D. Aitken, H.U. Bielenstein, D.G. Cook, E.W. Mountjoy and R.A. Price (1964-1966) and published geological maps

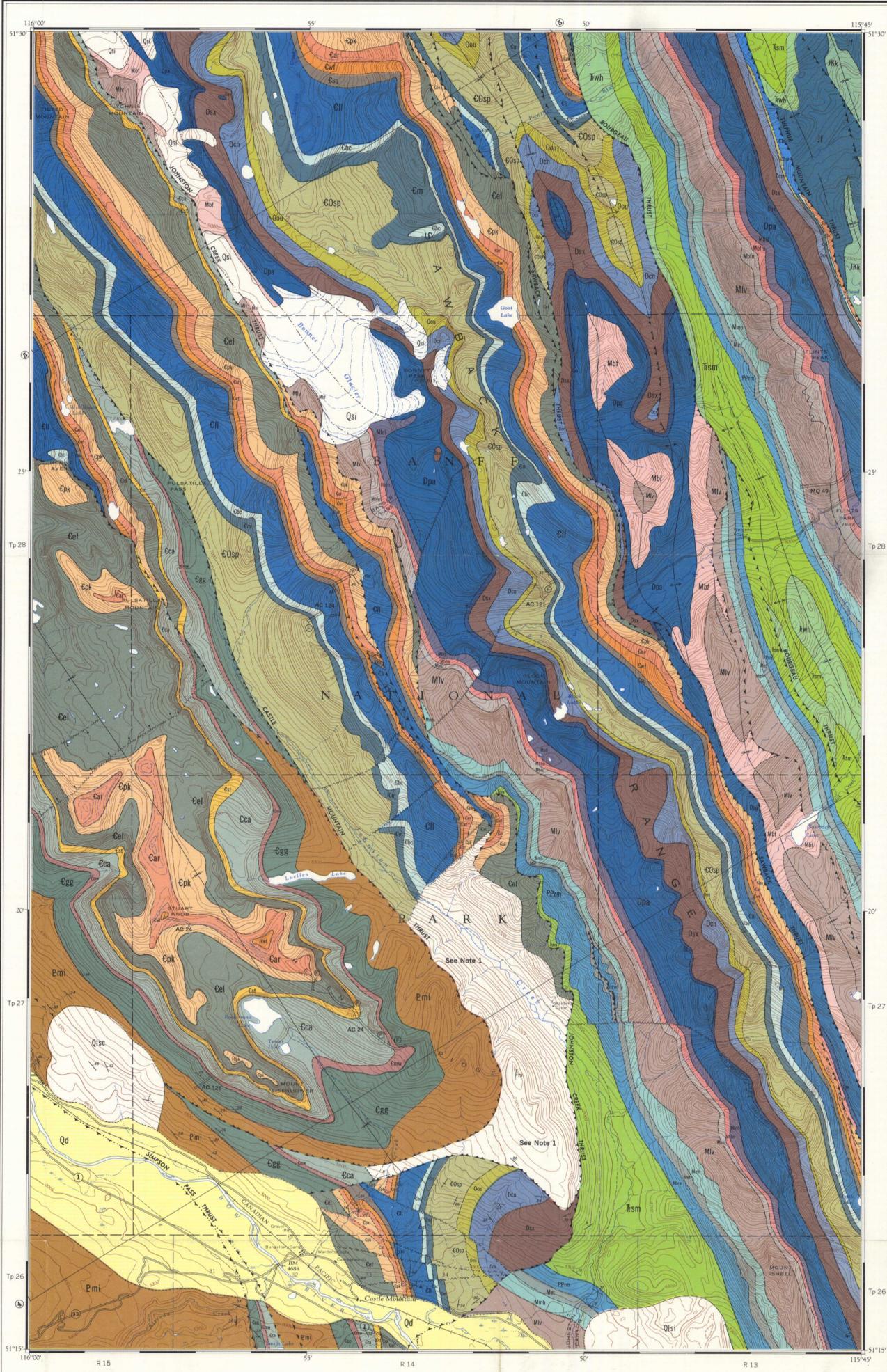
Geological cartography by the Geological Survey of Canada

Base-map at the same scale published by the Surveys and Mapping Branch in 1959

Copies of the topographical edition of this map may be obtained from the Map Distribution Office, Department of Energy, Mines and Resources, Ottawa

Approximate magnetic declination 1972, 22'22" east decreasing 2.6' annually

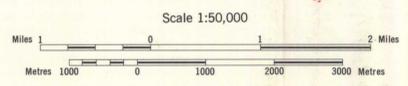
Elevations in feet above mean sea-level



Published, 1972
Copies of this map may be obtained from the Geological Survey of Canada, Ottawa



MAP 1297A
 GEOLOGY
MOUNT EISENHOWER
 (WEST HALF)
 WEST OF FIFTH MERIDIAN
 ALBERTA



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MOUNT EISENHOWER (West Half) ALBERTA

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1297