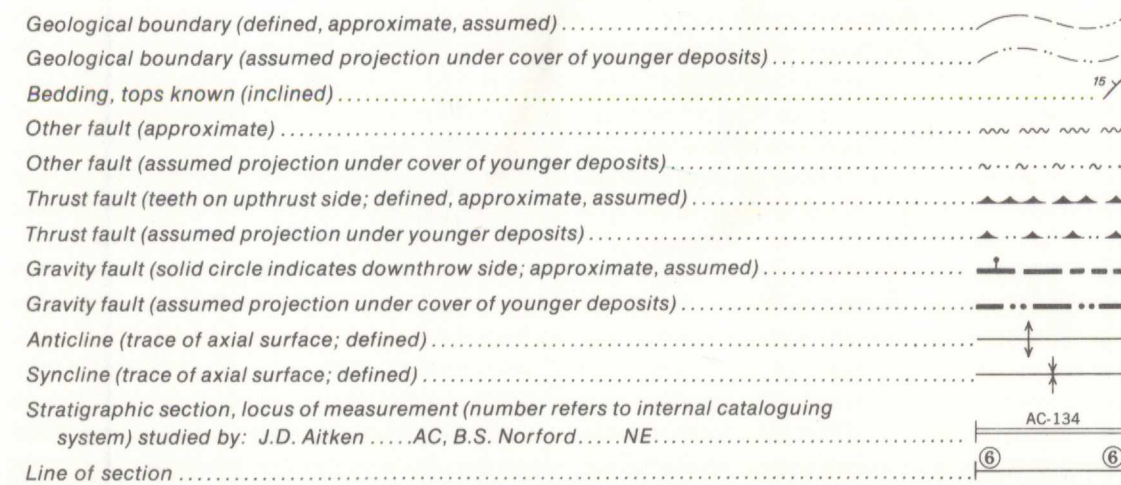


LEGEND

QUATERNARY FLEISTOCENE AND RECENT	Qsi	Snowfields and glaciers (boundaries replotted from vertical air photographs)	ORDOVICIAN AND SILURIAN	Oub	BEAVERFOOT FORMATION: dolomite, finely crystalline, brownish-grey, partly cherty, partly silty; limestone, dark grey, partly dense, partly fragmental						
	Qls	Landslide		ORDOVICIAN	Omw	MOUNT WILSON FORMATION: quartzite, white, fine- and medium-grained, thick-bedded, cross-laminated and massive					
	Qd	Till, alluvium, colluvium			Ooc	OWEN CREEK FORMATION: dolomite, grey, locally pink, mainly aphanitic, partly silty, sandy and siliceous; minor mudstone, grey to red					
MESOZOIC	TRIASSIC	Rwh	SPRAY RIVER GROUP (Rsm-Rwh)	Osk	SKOKI FORMATION: dolomite, mainly grey, finely and very finely crystalline, partly siliceous, partly fossiliferous, minor chert masses						
		Rsm	WHITEHORSE FORMATION: light grey, dolomitic siltstone and sandstone; red, green, and brown mudstone and siltstone; limestone and dolomite breccia	Oou	OUTRAM FORMATION: limestone, mainly dense, nodular, cherty, with argillaceous, dolomitic and siliceous tracery; dolomitized equivalents; minor shale, dark brown, rhythmically bedded						
		Rsm	SULPHUR MOUNTAIN FORMATION: dark grey and brown, thin-bedded siltstone, silty mudstone, shale, and dolomitic siltstone	CAMBRIAN AND ORDOVICIAN	Cosp	SURVEY PEAK FORMATION: interbedded limestone, partly dense, partly fragmental, partly very silty, grading to calcareous siltstone, and shale, greenish-grey and grey, calcareous; stromatolitic near the top; basal shale, calcareous, pale greenish grey weathering					
PENNSYLVANIAN AND PERMIAN	Pprn	ROCKY MOUNTAIN GROUP: light grey quartz sandstone, dolomitic sandstone, silty dolomite, chert	CAMBRIAN UPPER CAMBRIAN		Cmi	MISTAYA FORMATION: limestone, partly dense, partly fragmental, with prominent algal stromatolites; dolomitized equivalents, minor chert					
	MISSISSIPPIAN	Mmh		RUNDLE GROUP (Mpk-Mmh) MOUNT HEAD FORMATION: dense dark grey limestone and argillaceous dolomite; grey limestone and calcarenitic limestone. May locally include strata of Etherington Formation at top	Cbc	BISON CREEK FORMATION: shale, greenish-grey; interbedded with limestone, mainly fragmental, partly altered to dolomite					
PALEOZOIC		Mtu	Mtu	TURNER VALLEY FORMATION: light grey skeletal calcarenite and calcarenitic limestone; cherty limestone, dolomite	PALEOZOIC	CLIL	CLIL	LYELL FORMATION: limestone, mainly dense, with dolomite partings and mottling; partly laminated, partly silty and sandy; minor fragmental limestone; dolomitized equivalents; minor chert			
	Msh		SHUNDA FORMATION: light to dark grey dense limestone, calcarenitic limestone, and cherty limestone	CSU			CSU	SULLIVAN FORMATION: shale, calcareous, brownish-grey and greenish-grey; interbedded with limestone, mainly fragmental, partly oolitic; minor siltstone at the base			
	Mpl		PEKISKO FORMATION: light grey skeletal calcarenite, calcarenitic limestone, cherty limestone, and dolomite				MIDDLE AND UPPER CAMBRIAN	CWL	CWL	WATERFOWL FORMATION: limestone, mainly dense, with dolomite partings and mottling, partly silty and sandy; dolomitized equivalents; minor siltstone and sandstone	
	Mblu		BANFF FORMATION (Upper part): dark grey cherty and argillaceous and dolomitic limestone and calcarenitic limestone; and brownish-grey argillaceous dolomite	MIDDLE CAMBRIAN					CAR	CAR	ARCTOMYS FORMATION: shale, purple-red, green and grey; interbedded with siltstone, grey and yellow, dolomitic; minor orange-weathering dolomite
	Mbfm		Middle part: light to dark grey skeletal calcarenite, calcarenitic limestone, and argillaceous and dolomitic limestone							EPK	EPK
	Mbf	Lower part: dark grey and brownish-grey shale; brown argillaceous siltstone; argillaceous and cherty limestone	ELDM	ELDM	ELDOM FORMATION: limestone, mainly dense, dolomite-mottled, massive; dolomite, finely to coarsely crystalline, largely mottled, largely or entirely secondary						
	DEVONIAN UPPER DEVONIAN	Dpa		PALLISER FORMATION: thickly bedded and massive, dolomitic mottled limestone; grey, dense limestone; greyish-brown dolomite	EST	EST	STEPHEN FORMATION: shale, grey to green; interbedded with limestone, partly dense, flaggy with dolomite partings, partly fragmental; minor oolite				
		Dax	ALEXO FORMATION: thinly bedded silty dolomite, dolomitic sandstone; light grey dolomite, and dolomite breccia	CCA		CCA	CATHEDRAL FORMATION: limestone, mainly dense, massive, dolomite-mottled; dolomitized equivalents, mainly mottled				
	FAIRHOIME GROUP (Dps, Dmh, Dsx, Dst)	Dst	SOUTHEX FORMATION: massive to thickly bedded, light to medium grey, finely to coarsely crystalline dolomite; greyish-brown, finely to coarsely crystalline dolomite		CMW	CMW	MOUNT WHYTE FORMATION: shale, greenish-grey; interbedded with siltstone, green to grey, and limestone, mainly fragmental, partly oolitic				
		Dmh	MOUNT HAWK FORMATION: grey to brown calcareous mudstone with argillaceous limestone nodules; thin-bedded, dark grey, argillaceous limestone with locally abundant brachiopods and corals	LOWER CAMBRIAN		CGG	CGG	GOG GROUP: mainly sandstone and quartzite, white, grey and red, thick-bedded; minor thinly interbedded siltstone and grey shale			
Dpt	PERDRIX FORMATION: black, calcareous and pyritic shale with calcareous nodules and thin beds of dark grey, argillaceous limestone	UPPER PROTEROZOIC (HADRYNIAN) WINDERMERE SUPERGROUP	EMI		EMI		MIETTE GROUP: grey slate and siltstone; poorly sorted grey and greenish-grey leucapathic quartz sandstone and pebble and granule conglomerate; green and purple slate; dense limestone and sandy limestone conglomerate				
Dct	CAIRN FORMATION: massive to thickly bedded, dark brownish grey, medium crystalline dolomite with Amphipora and stromatopora beds; dark grey limestone, dolomitic limestone and dolomite in the lower part; minor chert and breccia; may locally include channel-filling red beds (Yahatinda Formation) at base										

Note 1: Undifferentiated; mainly Bison Creek, Mistaya, Survey Peak, Outram and Skoki Formations

Note 2: Undifferentiated; mainly or entirely Fairhoime Group



Geology by R.A. Price and E.W. Mountjoy based on studies of vertical air photographs (1954-1975); ground and air observations by J.D. Aitken, H.U. Bienenstein, D.G. Cook, E.W. Mountjoy and R.A. Price (1964-1968)

Geological cartography by B.H. Ortman, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map at the same scale published by the Surveys and Mapping Branch in 1961

Copies of the topographical edition of this map may be obtained from the Canada Map Office, 615 Booth Street, Ottawa, Ontario K1A 0E9

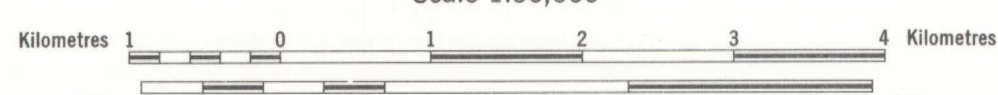
Approximate magnetic declination 1977, 22° 11' East decreasing 5.3' annually

Elevations in feet above mean sea-level

Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0E9, 3303 - 33rd Street N.W., Calgary, Alberta T2S 2A7



MAP 1463A
 GEOLOGY
HECTOR LAKE
 (East Half)
 WEST OF FIFTH MERIDIAN
 ALBERTA



Scale 1:50,000
Transverse Mercator Projection
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82N/10	82N/11	82O/13
1466A	1465A	1276A
82N/10	82N/9	82O/12
1464A	1463A	1274A
82N/7	82N/8	82O/5
	1297A	1296A

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