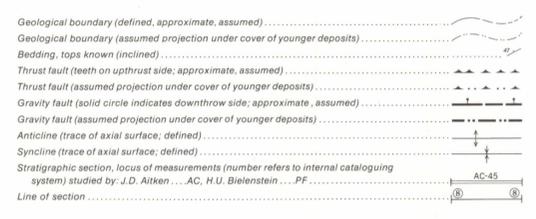


LEGEND

- CENOZOIC**
- PLEISTOCENE AND RECENT**
- Qsi Snowfields and glaciers (boundaries replotted from vertical air photographs)
 - Qls Landslide
 - Qd Till, alluvium, colluvium
- JURASSIC**
- Jl FERNIE GROUP: shale, dark grey to black; siltstone, sandstone and platy, silty, argillaceous limestone, dark grey; quartz sandstone, brown, limonitic
- TRIASSIC**
- Trwh SPRAY RIVER GROUP (Tsm-Trwh): siltstone and sandstone, light grey, dolomitic; mudstone and siltstone, red, green, and brown; limestone and dolomite breccia
 - Tsm SULPHUR MOUNTAIN FORMATION: siltstone, dark grey and brown, thin-bedded; silty mudstone, shale, and dolomitic siltstone
- PENNSYLVANIAN AND PERMIAN**
- PfRm ROCKY MOUNTAIN GROUP: light grey quartz sandstone, dolomitic sandstone, silty dolomite; chert
- MISSISSIPPIAN**
- Mmh RUNDLE GROUP (Mpk-Mmh): MOUNT HEAD FORMATION: dense dark grey limestone and argillaceous dolomite; grey limestone and calcarenitic limestone; cherty and silty dolomite and limestone
 - Mtv TURNER VALLEY FORMATION: light grey skeletal calcarenite and calcarenitic limestone; cherty limestone; dolomite
 - Msh SHUNDA FORMATION: light to dark grey dense limestone, calcarenitic limestone, and cherty dolomite
 - Mpk PEKISKO FORMATION: light grey skeletal calcarenite, calcarenitic limestone; cherty limestone; and dolomite
 - Mbf EKSHAW AND BANFF FORMATIONS: dark grey, finely crystalline, thin-bedded limestone; dark brownish grey shale and calcareous shale; brown argillaceous siltstone; argillaceous and cherty skeletal calcarenitic limestone; and argillaceous dolomite
- DEVONIAN**
- UPPER DEVONIAN**
- Dpa PALLISER FORMATION: thickly bedded and massive, mottled, dolomitic limestone; grey dense limestone; greyish-brown dolomite
 - Dax ALEXO FORMATION: thinly bedded, silty dolomite, dolomitic sandstone; light grey dolomite, and breccia
- FAIRHOLME GROUP (Dca-Dsx)**
- Dca SOUTHSIDE FORMATION: light grey, coarsely crystalline, vuggy dolomite; light grey, thick-bedded, granular limestone; brown dolomite with corals and Amphipora
- Note: Dpx and Dmh represent strata deposited basinward from Dax and Dcn which represent reef-fringed banks*
- Dmh MOUNT HAWK FORMATION: mudstone, grey to brown with calcareous mudstone nodules; limestone, argillaceous, thin-bedded, with brachiopods and corals
 - Dpx PERDRIX FORMATION: shale, black, calcareous, pyritic, with calcareous nodules and thin beds of dark grey argillaceous limestone
 - Dcn 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

- ORDOVICIAN**
- Omw MOUNT WILSON FORMATION: quartz sandstone, quartzite, mainly fine- to medium-grained, very light grey to yellowish-grey
 - Ooc OWEN CREEK FORMATION: dolomite, mainly very finely crystalline, dark grey and olive-grey, siliceous, partly silty and sandy, partly laminated; cherty; minor brown mudstone
 - Osk SKOKI FORMATION: dolomite, mainly grey, finely and very finely crystalline, partly siliceous, partly fossiliferous; minor chert masses
 - Oou OUTRAM FORMATION: limestone, mainly dense, nodular, cherty, with argillaceous, dolomitic, and siliceous trace; dolomitized equivalents; minor brown shale; rhythmically bedded
- CAMBRIAN AND ORDOVICIAN**
- EOsp SURVEY PEAK FORMATION: shale, grey, calcareous; interbedded with limestone, partly dense, partly fragmental, partly stromatolitic; minor chert; basal shales, calcareous, grey to olive, weathering pale greenish grey, with minor limestone, mainly flat-pebble conglomerate; and siltstone
- CAMBRIAN**
- UPPER CAMBRIAN**
- Emi MISTAYA FORMATION: limestone, partly dense, partly fragmental, with prominent algal stromatolites; dolomitized equivalents; minor chert
 - Ebc BISON CREEK FORMATION: shale, greenish-grey, interbedded with limestone, mainly fragmental, partly altered to dolomite
 - Eli LYELL FORMATION: limestone, mainly dense, with dolomite partings and mottling; partly laminated, partly silty and sandy; minor fragmental limestone; dolomitized equivalents; minor chert
 - Esu SULLIVAN FORMATION: shale, calcareous, brownish-grey and greenish-grey; interbedded with limestone, mainly fragmental, partly oolitic; minor siltstone at the base
- MIDDLE AND UPPER CAMBRIAN**
- Ewl WATERFOWL FORMATION: limestone, mainly dense, with dolomite partings and mottling, partly silty and sandy; dolomitized equivalents; minor siltstone and sandstone
- MIDDLE CAMBRIAN**
- Ear ARCTOPHY'S FORMATION: shale, purple-red, green, and grey; interbedded with siltstone, grey, yellow, dolomitic; minor orange-weathering dolomite
 - Epk PIKA FORMATION: limestone, mainly dense, flaggy, with partings of dense dolomite; minor flat-pebble conglomerate and oolite; dolomitized equivalents; minor shale near the base
 - Eel ELDON FORMATION: limestone, mainly dense, dolomite-mottled, massive; dolomite, finely to coarsely crystalline, largely mottled, largely or entirely secondary
 - Est STEPHEN FORMATION: shale, grey to green; interbedded with limestone, partly dense, flaggy with dolomite partings, partly fragmental; minor oolite
 - Eca CATHEDRAL FORMATION: limestone, mainly dense, dolomite-mottled, massive; dolomitized equivalents, mainly mottled
 - Emw MOUNT WHYTE FORMATION: shale, greenish-grey; interbedded with siltstone, green to grey, and limestone, mainly fragmental, partly oolitic
- LOWER CAMBRIAN**
- Egg GOG GROUP: mainly quartzite and quartzose sandstone, white, grey and red, thick-bedded; minor thinly interbedded sandstone, siltstone and grey shale
- UPPER PROTEROZOIC (HADRYNIAN)**
- Wendmere Supergroup
 - Emi MIETTE GROUP: grey slate 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
- LYNX GROUP (upper part):** dolomite, mainly grey mottled, locally tinged or speckled with pink, microcrystalline, silty, grading to dolomitic siltstone; commonly laminated; thick- to thin-bedded; chert nodules



Geology by R.A. Price and E.W. Mountjoy based on studies of vertical air photographs (1964-1975); ground and air observations by J.D. Aitken, H.U. Bielenstein, D.G. Cook, E.W. Mountjoy and R.A. Price (1964-1966)

Geological cartography by G.S. Whitman, 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° 26' East, decreasing 5.3' annually

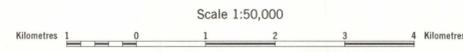
Elevations in feet above mean sea level



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 T2L 2A7



MAP 1466A
 GEOLOGY
SIFFLEUR RIVER
 (West Half)
 WEST OF FIFTH MERIDIAN
 ALBERTA



83C/2	83C/1	83B/4
1389A	1388A	46-22A
82N/15	82N/16	82O/13
1466A	1465A	1276A
82N/10	82N/9	82O/12
1464A	1463A	1274A
		1273A

NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

MAP 1466A

SIFFLEUR RIVER (West Half) ALBERTA



1466A

NOT TO BE TAKEN FROM LIBRARY / NE PAS SORTIR DE LA BIBLIOTHÈQUE