

LEGEND

CENOZOIC

MESOZOIC

PALEOZOIC

PROTEROZOIC

| | | | |
|--------------------------------------|--|---|----------------------------------|
| Q | QUATERNARY | | |
| CRETACEOUS | | | |
| UPPER CRETACEOUS | | | |
| uKw | WAPITI Fm. | | |
| uKch | PUSKWASKAU Fm.: CHUNGO AND HANSON Mbrs | } | uKp PUSKWASKAU Fm. (undivided) |
| uKpl | PUSKWASKAU Fm.: HANSON, THISTLE AND DOWLING Mbrs | | |
| uKb | BADHEART Fm. | | |
| uKm | MUSKIKI Fm. | | |
| uKc | CARDIUM Fm. | | |
| uKk | KASKAPAU Fm. | | |
| uKd | DUNVEGAN Fm. | | |
| FORT ST. JOHN GROUP | | | |
| uKor | CRUISER Fm. | | |
| LOWER CRETACEOUS | | | |
| Kgo | GOODRICH Fm. | } | Ks SHAFTESBURY Fm. |
| Kh | HASLER Fm. | | |
| Kcb | COMMOTION Fm.: BOULDER CREEK MBR. | } | Kb BUCKINGHORSE Fm. |
| Kch | : HULCROSS MBR. | | |
| Kcg | : GATES MBR. | | |
| Kc | COMMOTION Fm. | | |
| Km | MOOSEBAR Fm. | } | Kbr BLAIRMORE Gr. |
| Kg | GETHING Fm. | | |
| Kcd | CADOMIN Fm. | | |
| CRETACEOUS AND JURASSIC MINNES GROUP | | | |
| Kbi | BICKFORD Fm. | } | JKm MINNES Gr. |
| Kmh | MONACH Fm. | | |
| Kbp | BEATTIE PEAKS Fm. | | |
| JKmt | MONTEITH Fm. | | |
| JURASSIC | | | |
| Jf | FERNIE Fm. | | |
| TRIASSIC | | | |
| Rp | PARDONET Fm. | } | R TRIASSIC (undivided) |
| Rw Rc | WHITEHORSE Fm.: CHARLIE LAKE + BALDONNEL Fms. | | |
| Rb Rl | SULPHUR MTN. Fm.: TOAD + LIARD Fms. | | |
| PERMIAN | | | |
| Pb Pf | BELCOURT, RANGER CANYON, + MOWITCH : KINDLE + FANTASQUE Fms. | | |
| CARBONIFEROUS | | | |
| LOWER CARBONIFEROUS (MISSISSIPPIAN) | | | |
| Mr Mp | RUNDLE Fm.: PROPHET Fm. | | |
| Mb | BANFF Fm. | } | Db BESA RIVER Fm. |
| Ex | EXSHAW Fm. | | |
| DEVONIAN | | | |
| UPPER DEVONIAN | | | |
| | PALLISER Fm. | | |
| | FAIRHOLME GROUP | | |
| | SASSENACH Fm. | | |
| Dsk | SOUTHESK Fm. | | |
| Dh | MT. HAWK Fm. | | |
| Dpx | PERDRIX Fm. | | |
| MIDDLE DEVONIAN | | | |
| Dpp | PINE POINT Fm. | | |
| Ds | STONE Fm. | | |
| LOWER DEVONIAN | | | |
| Dm | MUNCHO-McCONNELL Fm. | | |
| SILURIAN | | | |
| Sn | NONDA Fm. | | |
| ORDOVICIAN | | | |
| UPPER ORDOVICIAN | | | |
| Ob | BEAVERFOOT Fm. | | |
| MIDDLE ORDOVICIAN | | | |
| Os | SKOKI Fm. | | |
| LOWER ORDOVICIAN | | | |
| Om | MONKMAN QTZITE. | | |
| Oc Ok | CHUSHINA Fm.: KECHIKA Gr. | } | EO CAMBRO-ORDOVICIAN (undivided) |
| CAMBRIAN | | | |
| UPPER CAMBRIAN | | | |
| Ei | LYNX Fm. | | |
| MIDDLE CAMBRIAN | | | |
| Ea | ARCTOMYS Fm. | } | Em MIDDLE CAMBRIAN (undivided) |
| Et | TITKANA Fm. | | |
| Etc | TETAI-CHE TANG Fm. | | |
| Ed | unnamed | | |
| LOWER CAMBRIAN | | | |
| GOG GROUP | | | |
| Ema | MAHTO Fm. | } | Eg GOG Gr. |
| Emu | MURAL Fm. | | |
| Emn | McNAUGHTON Fm. | | |
| HADRYNIAN | | | |
| MIETTE GROUP | | | |
| Ems | | } | Eh MiETTE Gr.: MISINCHINKA Gr. |
| Eb | BYNG Fm. | | |
| Emg | | | |
| Eml | | | |

GEOLOGICAL SYMBOLS

- Geological boundary, defined, approximate, assumed -----
- Anticline
- Syncline
- Fault, defined, approximate
- Bedding attitude
- Outcrop in areas of limited exposure
- Borehole, abandoned, producing gas (not updated to present)

Geological synthesis by G. C. Taylor and D. F. Stott based on field observations by E. W. Bamber, B. S. Norford, W. H. Fritz, D. W. Gibson, R. W. Macqueen, D. F. Stott, G. C. Taylor, and F. G. Young. Previous work, some of which is indicated in the selected references, and particularly that of E. J. W. Irish and J. E. Muller, was used extensively during both field studies and compilation.

The most current and detailed publications in which the lithologic units are described include:

Bamber, E. W., and Macqueen, R. W.
1971: Lower Carboniferous and Permian stratigraphy, Monkman Pass Area, northeastern British Columbia; Geol. Surv. Can., Paper 71-1, Part A, pp. 193-196.

Gibson, D. W.
1972: Triassic stratigraphy of the Pine Pass-Smoky River area, Rocky Mountain foothills and front ranges of British Columbia and Alberta; Geol. Surv. Can., Paper 71-30.

Stott, D. F.
1967: The Cretaceous Smoky Group, Rocky Mountain Foothills, Alberta and British Columbia; Geol. Surv. Can., Bull. 132.
(Stott, D. F.)
1968: Lower Cretaceous Bullhead and Fort St. John Groups, between Smoky and Peace Rivers, Rocky Mountain Foothills, Alberta and British Columbia; Geol. Surv. Can., Bull. 152.
1970: Jurassic and Cretaceous rocks of Pine River region, British Columbia; Field Conference Guidebook "Peace River, Pine Pass, Yellowhead, 1970"; Edmonton Geol. Soc., pp. 58-83.
1973: Lower Cretaceous Bullhead Group between Bullmoose Mountain and Tetsa River, Rocky Mountain Foothills, northeastern British Columbia; Geol. Surv. Can., Bull. 219.

Taylor, G. C., and Bamber, E. W.
1970: Paleozoic stratigraphy of Pine Pass, northeastern British Columbia; Field Conference Guidebook, Peace River, Pine Pass Yellowhead, 1970, Edmonton Geol. Soc., pp. 46-57.

Selected References To Previous Mapping

Beach, H. H., and Spivak, J.
1944: Dunlevy-Portage Mountain map-area, B. C.; Geol. Surv. Can., Paper 44-19.

Greiner, H. R.
1955: Two Lakes, Alberta; Geol. Surv. Can., Paper 55-14.

Hughes, J. E.
1967: Geology of the Pine Valley, Mount Wabi to Solitude Mountain, northeastern British Columbia; British Columbia Dept. Mines and Petrol. Res., Bull. No. 52.

Irish, E. J. W.
1954: Copton Creek, Alberta; Geol. Surv. Can., Map 1041A.
1958: Charlie Lake, British Columbia; Geol. Surv. Can., Map. 17-1958.
1970: Halfway River, British Columbia; Geol. Surv. Can., Paper 69-11.

Mathews, W. H.
1947: Geology and coal resources of the Carbon Creek-Mount Bickford map-area, Dept. Mines, B. C., Bull. No. 24.

McLearn, F. H., and Henderson, J. F.
1944: Geology and oil prospects of Lone Mountain area, British Columbia; Geol. Surv. Can., Paper 44-2.

Muller, J. E.
1961: Pine Pass, British Columbia; Geol. Surv. Can., Map. 11-1961.

Wickenden, R. T. D., and Shaw, G.
1942: Stratigraphy and structure in Mount Hulcross-Commotion Creek map-area, B. C.; Geol. Surv. Can., Paper 43-13.