



LEGEND

CRETACEOUS

UPPER CRETACEOUS

Kbr BELLY RIVER FORMATION: grey and green sandstone; silty, grey and green shale; includes equivalents of the marine Bearpaw Formation (Kbr) in vicinity of Oyster Creek; undivided

Kwp ALBERTA GROUP (Kak - Kwp)

Kca WAPIABI FORMATION: dark grey shale; silty shale; thin, fine-grained, grey sandstone

Kca CARDIUM FORMATION: fine to coarse-grained, grey sandstone; silty shale; conglomerate

Kbk BLACKSTONE FORMATION: dark grey, silty and concretionary shale; thin, fine-grained, grey sandstone; basal chert-pebble conglomerate

LOWER CRETACEOUS

Kcn CROWNSHET FORMATION: agglomerate; red, green, yellow and brown, tuffaceous shale; green and grey tuffaceous sandstone; minor trachytic flows

Kbl BLAIRMORE GROUP: grey and greenish grey sandstone; green silty mudstone (Beaver Mines fm.); grey sandstone and shale toward base (Gladstone fm.); basal chert, quartzite pebble-conglomerate (Cadinon fm.); undivided

MESOZOIC

JURASSIC AND LOWER CRETACEOUS

KOOTENAY GROUP (JMO - KE)

Ke ELK FORMATION: interbedded sandstone, siltstone, mudstone, shale, conglomerate and thin coal seams

Jkm MIST MOUNTAIN FORMATION: interbedded siltstone, sandstone, mudstone, shale and bituminous coal; conglomeratic in Lewis thrust plate

Jmo MORRISSEY FORMATION: resistant, coarsening-upward sequence of grey and brown weathering quartz-chert sandstone; rare interbeds of carbonaceous mudstone, siltstone and coal

JKk KOOTENAY GROUP Undivided

JURASSIC

Jf FERNIE FORMATION: dark grey to black shale; silty shale; thin grey sandstone; thin black limestone; basal coquina and phosphate-pebble conglomerate; may include thin Sulphur Mountain Formation on west flank of Livingstone Range

TRIASSIC

LOWER TRIASSIC

SPRAY RIVER GROUP

Trsm SULPHUR MOUNTAIN FORMATION: dark grey siltstone, dark grey and brown sandstone; black phosphate pebble conglomerate

PERMIAN

Pi ISHBEL GROUP: dark grey, colour-laminated, cherty siltstone; undivided

PENNSYLVANIAN

ROCKY MOUNTAIN GROUP (Pm-Pk)

Pk KANANASKIS FORMATION: grey, dolomitic siltstone and quartzite; calcareous, cherty sandstone

Pm MISTY FORMATION: fine-grained grey, dolomitic sandstone; minor limestone and chert

Pm ROCKY MOUNTAIN GROUP Undivided

MISSISSIPPIAN

RUNDLE GROUP (Mlv-Mit)

Mit ETHERINGTON FORMATION: black and grey dolomite and limestone; grey sandstone; minor green and maroon shale and chert breccia; includes interbedded pale orange and grey sandstone and dolomite and pale red siltstone of Todhunter Member at top of formation in Lewis thrust plate

Mmh MOUNT HEAD FORMATION: dark grey and black, cryptocrystalline to coarsely crystalline limestone; grey and buff, fine to medium-crystalline dolomite, dolomite and limestone breccia; black, calcareous and green shale

Mlv LIVINGSTONE FORMATION: massive, grey, fine to coarse-crystalline limestone; grey, crinoidal limestone; cherty grey limestone and dolomite

Mbf BANFF FORMATION: dark grey and black, cherty and argillaceous limestone; black siltstone and mudstone; banded chert

DEVONIAN AND MISSISSIPPIAN

Dmx EXSHAW FORMATION: black, silty shale; grey siltstone and limestone

DEVONIAN

UPPER DEVONIAN

Dpa PALLISER FORMATION: massive, dark grey and brownish grey limestone and dolomite; brown, crystalline dolomite

Dfa FAIRHOLME GROUP AND ALEXO FORMATION: dark grey, silty and argillaceous limestone; dark and light grey dolomite; siltstone and sandstone (structure sections only)

CAMBRIAN

Cu Cambrian and earlier formations undivided (structure sections only)

- Outcrop examined, no attitude on bedding X
- Geological boundary, defined, approximate, assumed - - - - -
- Bedding, horizontal, inclined, vertical, overturned + x x x
- Fault, thrust or high-angle reverse, defined, approximate, assumed - - - - -
- Fault, extension, defined, solid circle on down throw side ○
- Fault, tear (arrows show sense of displacement) - - - - -
- Anticline, defined, approximate, assumed (arrow indicates direction of plunge) - - - - -
- Syncline, defined, approximate, assumed (arrow indicates direction of plunge) - - - - -
- Anticline, syncline, asymmetrical, overturned; long arrow points in direction of dip of axial surface - - - - -
- Fossil locality (GSC catalogue no., Calgary, Ottawa) C17988, 26664
- Mineral occurrence (lead) ✕ Pb
- Coal mine (abandoned) C
- Stratigraphic section - - - - -
- Borehole, gas, dry and abandoned * - - - - -
- Paleontological age, determined, indeterminate* JMVI, I
- Tentative formational assignment ? Trsm
- Line of structure section A - A'

Schedule of wells (in order of spudding date)

1. Anglo Canadian Savanna Creek No. 1 D & A
2. Oilfield Development Willow Creek No. 1 D & A
3. Royal Sun Pete No. 1 D & A
4. Husky Northern Target Savanna Creek No. 1 Gas Well
5. Husky Northern Target Plateau No. 1 Aband
6. Phillips Petroleum Savanna Creek No. 2A Gas Well
7. Phillips Husky Savanna Creek No. 3A Gas
8. B A Baysel Riley 7-19 D & A
9. Phillips Husky Savanna Creek No. 4 Gas Well
10. Phillips Savanna Creek 11-17 Gas Well
11. Phillips Plateau 9-5 Gas Well
12. Phillips Savanna Creek 10-8 Gas Well
13. Phillips Savanna Creek 8-32 Gas Well
14. Skelly A1 Stimson 10-4 D & A
15. Getty et al. Oyster 9-21 Aband
16. Para et al. Savck 11-32 Gas Well
17. Pex Amoco Horseshoe 15-30 D & A
18. Coseka et al. Savanna Creek 9-31 D & A
19. Novalta Savanna West 10-35 D & A

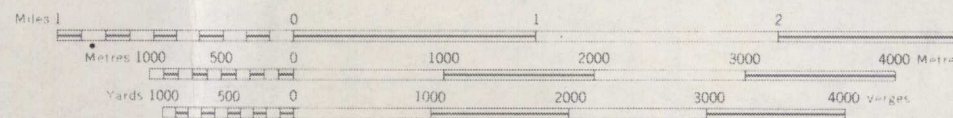
Note 1: Cuttings from Oilfield Development No. 1 well suggest the presence of deformed and thickened Cardium Formation close to or at the surface in the immediate footwall of the Chimney Rock Fault.

*For explanation of time symbols, see G.S.C. Paper 76-1B, p. 263-265

Geology by D. K. Norris

FORDING RIVER BRITISH COLUMBIA - ALBERTA WEST OF FIFTH MERIDIAN - OUEST DU CINQUIEME MERIDIEN

SCALE 1:50,000 ÉCHELLE



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