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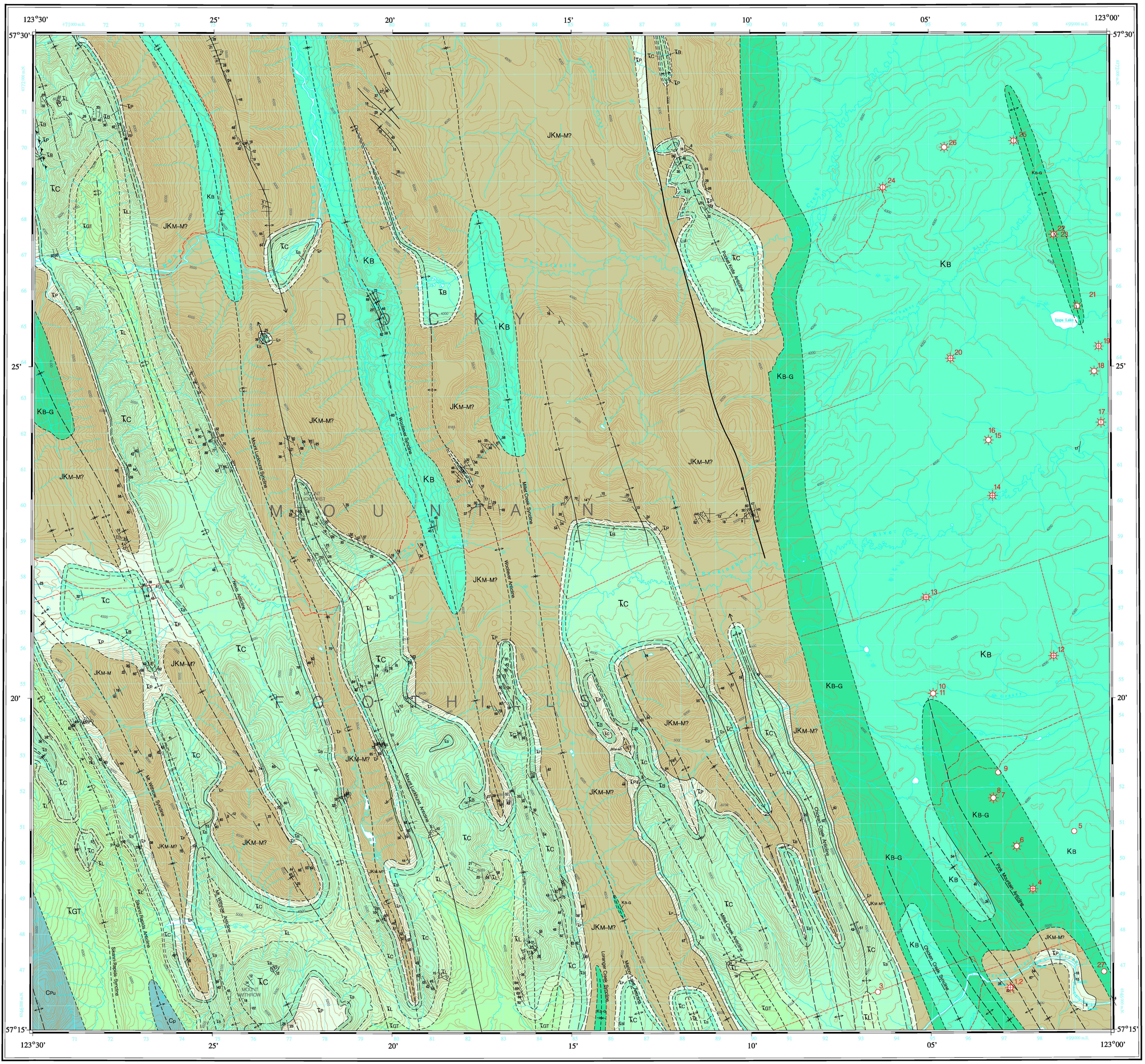
GEOLOGICAL SURVEY OF CANADA | COMMISSION GÉOLOGIQUE DU CANADA




## LEGEND

**CRETACEOUS**

**LOWER CRETACEOUS**

**FORT ST. JOHN GROUP**

**Kb** — **BUCKINGHORSE FORMATION** - *Shale, black, scattered brown weathering sideritic nodules common in middle and upper parts; and minor sandstone.*

**BULLHEAD GROUP**

**Kb–G** — **GETHING FORMATION** - *Quartz arenite, rusty; and shale, black.*

**Kb–C** — **CADOMIN FORMATION** - *Quartz arenite, massive white, or fine grained grey; minor shale, black; argillaceous quartz arenite; and some chert pebble conglomerate.*

**JURASSIC AND CRETACEOUS**

**MINNES GROUP**

**JKM–M?** — **MONTIETH FORMATION** - *Quartz arenite, massive white, or fine grained grey; minor shale, black; and argillaceous quartz arenite; and rare chert pebble conglomerate. Commonly includes underlying Fernie Fm., where it is too thin to show at 1:50 000 scale, and may include overlying Gething Fm. and/or Cadomin Fm.*

**JURASSIC**

**Jf** — **FERNIE FORMATION** - *Shale, black rusty; and shale, calcareous, grey. Note: this unit is too thin to show at 1:50 000 scale in most places.*

**TRIASSIC**

**SCHOOLER CREEK GROUP**

**Tp** — **PARDONET FORMATION** - *Limestone, recessive flaggy, fossiliferous, shaly and silty; abundant Monotid pelecypods are a characteristic feature; bivalves, brachiopods and ichthyosaur bones are locally preserved.*

**Tb** — **BALDONNEL FORMATION** - *Limestone, massive grey cliff forming, fossiliferous; with minor shale; siltstone; quartz arenite; and argillaceous limestone.*

**Tc** — **CHARLIE LAKE FORMATION** - *Siltstone, calcareous, orange weathering; minor limestone; shale; quartz arenite; and breccia.*

**Tl** — **LIARD FORMATION (Halfway Fm - subsurface)** - *Quartz arenite, massive, thick bedded, forming metre scale thick units; interstratified with metre scale calcareous quartz arenite and limestone.*

**DIABER GROUP**

**TgT** — **TOAD - GRAYLING FORMATION (Doig and Monteney Fms. subsurface)** *Shale, calcareous, brown-grey weathering, laminated with units of very shaly, brown weathering fine grained limestone. More calcareous in the upper part. More phosphatic in the lower part.*

**MESOZOIC**

**PALEOZOIC**

**CARBONIFEROUS**

**RUNDLE GROUP**

**Cp** — **PROPHET FORMATION** - *Chert, grey, light grey, black; and shale, brownish black; units of grey limestone towards top. May include Stoddart Group, and/or chert of the overlying Fantasque Fm.*

## MAP SYMBOLS

*Outcrop (small, large, scattered, debris)*

*Geological boundary (defined, approximate, assumed)*

*Geological boundary (assumed projection under younger deposits)*

### *LOCAL STRUCTURES*

*PLANAR STRUCTURES*

*Bedding, tops known (inclined, overturned, vertical, horizontal)*

*Fold axial plane (inclined)*

*Joint (inclined)*

*LINEAR STRUCTURES*

*Fold axis (anticline, syncline, Z-fold, S-fold, M-fold)*

### *REGIONAL STRUCTURES*

*Thrust fault (teeth indicate dip direction; defined, approximate, assumed)*

*Thrust fault (assumed projection under cover of younger deposits)*

*Anticline (defined, approximate, assumed)*

*Anticline - limbs dip in same direction, arrow on steeper limb (certain, approximate, assumed)*

*Syncline (defined, approximate, assumed)*

*Overturned anticline (defined, approximate, assumed)*

*Overturned syncline (defined, approximate, assumed)*

*OTHERS*

*Well (gas [producer, suspended or abandonned]);*

*Well (unknown status)*

*Fossil locality*

*Glacial erratic locality*

## LIST OF WELLS

| | UWID | FULL NAME | RIG RELEASE | SURFACE LOCATION (Easting, Northing) |
|---|---|---|---|---|
| 1 | 200B014A094G0600 | RANGER SIKANNI B- 014-A/094-G-06 | 25 Mar 1983 | 497192.5 6346189.9 |
| 2 | 200B014A094G0602 | RANGER SIKANNI B- 014-A/094-G-06 | 25 Mar 1983 | 497192.5 6346189.9 |
| 3 | 200B019A094G0600 | REMINGTON W SIKANNI B- 019-A/094-G-06 | 31 Oct 1984 | 493609.9 6346133.8 |
| 4 | 200B043A094G0600 | RANGER SIKANNI B- 043-A/094-G-06 | 02 Nov 1984 | 497833.4 6348942.8 |
| 5 | 200D052A094G0600 | LRI GRASSY D- 052-A/094-G-06 | 12 Oct 1971 | 499000.2 6350582.2 |
| 6 | 200D054A094G0600 | RANGER SIKANNI D- 054-A/094-G-06 | 06 Dec 1981 | 497445.5 6350143.2 |
| 7 | 200D065A094G0600 | RANGER HZ SIKANNI D- 065-A/094-G-06 | 04 Dec 1995 | 496700.2 6351154.5 |
| 8 | 200D065A094G0602 | RANGER HZ SIKANNI D- 065-A/094-G-06 | 04 Dec 1995 | 496783.5 6351421.5 |
| 9 | 200D075A094G0600 | HOME SIKANNI D- 075-A/094-G-06 | 19 Dec 1988 | 496872.7 6352206.7 |
| 10 | 200B007H094G0600 | RANGER SIKANNI B- 007-H/094-G-06 | 30 Dec 1980 | 485065.0 6354418.5 |
| 11 | 200B007H094G0602 | RANGER SIKANNI B- 007-H/094-G-06 | unknown | 495061.3 6354670.9 |
| 12 | 200A013H094G0600 | REMINGTON SIKANNI A- 013-H/094-G-06 | 30 Jun 1986 | 498368.3 6355350.2 |
| 13 | 200B037H094G0600 | REMINGTON SIKANNI B- 037-H/094-G-06 | 25 Oct 1985 | 494894.5 6357126.3 |
| 14 | 200B064H094G0600 | BEARCAT TRAPPER ET AL MPA A- 065-H/094-G-06 | 17 Oct 1980 | 497081.8 6360275.3 |
| 15 | 200C075H094G0602 | NUMAC SCEPTRE POCKETKNIFE D- 075-H/094-G-06 | 23 Jan 1991 | 496565.6 6361482.8 |
| 16 | 200C075H094G0600 | NUMAC SCEPTRE POCKETKNIFE D- 075-H/094-G-06 | 23 Jan 1991 | 496945.6 6361486.4 |
| 17 | 200A081H094G0600 | MOBIL ET AL POCKETKNIFE A- 081-H/094-G-06 | 27 Jan 1989 | 499936.7 6362059.9 |
| 18 | 200D091H094G0600 | MOBIL ET AL POCKETKNIFE D- 091-H/094-G-06 | 11 Jan 1990 | 496748.1 6363490.2 |
| 19 | 200D011I094G0600 | ASHLAND ET AL POCKETKNIFE D- 001-I/094-G-06 | 04 Nov 1978 | 493732.9 6364120.3 |
| 20 | 200B009I094G0600 | BA HB W POCKETKNIFE B- 006-I/094-G-06 | 13 Aug 1964 | 495592.5 6363791.5 |
| 21 | 200C011I094G0600 | OLYMPIA SUNCOR POCKETKNIFE D- 012-I/094-G-06 | 25 Sep 1991 | 498511.4 6365247.4 |
| 22 | 200D033I094G0600 | OLYMPIA SUNCOR POCKETKNIFE D- 033-I/094-G-06 | 29 Nov 1963 | 498491.5 6367252.8 |
| 23 | 200D033I094G0602 | OLYMPIA SUNCOR POCKETKNIFE D- 033-I/094-G-06 | 29 Nov 1963 | 498491.5 6367252.8 |
| 24 | 200D059I094G0600 | CNRL POCKETKNIFE A- 059-I/094-G-06 | 24 Jul 1980 | 493448.1 6368705.5 |
| 25 | 200D064I094G0600 | OLYMPIA SUNCOR POCKETKNIFE D- 064-I/094-G-06 | 18 Mar 1977 | 497380.0 6369976.6 |
| 26 | 200D067I094G0600 | NUMAC ROXY POCKETKNIFE D- 067-I/094-G-06 | 22 Nov 1993 | 495327.2 6369732.3 |
| 27 | 200C020D094G0700 | LH ARCO SIKANNI D- 011-A/094-G-06 | 01 Dec 1974 | 499813.0 6346837.0 |

*Geology by L.D. Currie and M.P. Cecile, based on fieldwork conducted during 1996 and 1998.*

*THIS MAP IS A PRODUCT OF THE CENTRAL FORELAND NATMAP PROJECT*

*REFERENCES*

*Cecile, M.P. (compiler) 1997: Geology Sikanni Chief River area, parts of NTS eets 94G3 (Marion Lake), 94G6 (Mount Withrow). Geological Survey of Canada Open File 3471, 1:50,000.*

*Taylor, G.C. 1979: Trutch and Ware (east half) map areas, Geologil Survey of Canada Open File 606, scale 1:125,000, 2 sheets.*

*Taylor, G.C., and Stott, D.F. 1997: Geology, Toad River (94N), Peace River District, British Columbia, Geological Survey of Canada Open File 3598, scale 1:250,000, 1 sheet.*

*Geological cartography by S.J. Hinds, L.D. Currie and M.P. Cecile*

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

*Base map at the same scale published Surveys and Mapping Branch in 1971*

*Acknowledgements.*

*Geology from field work by L.D. Currie, 1998 and M.P. Cecile 1996, 1998. With contributions from: J.P. Restoule and T.C. Ziebell, Murphy Oil; Anne Ceccanese, Bob Moore, Tara Brekko, Michelle Pelletier, and Marcia Rempe, Crestar Energy; and Andrei Khudoley VSEGEI, Russia. Mapping was carried out as part of field work for the GSC Central Foreland Project in 1996 and 1998. Most of the helicopter support for the mapping in 1996 was provided by Murphy Oil; and in 1998 by the Geological Survey of Canada and some by Crestar Energy in support of training for their employees.*

*NOTES:*

*Base map and geology have been transformed from NAD27 (North American Datum 1927) to NAD83.*

*Although every effort has been made to ensure accuracy, this Open File Report has not been edited for conformity with Geological Survey of Canada Standards.*

Recommended citation:
Currie, L.D., and Cecile, M.P.
1999: Preliminary Geology of the Mt. Withrow map area (94G/06), Geological Survey of Canada Open File 3737, scale 1:50 000

**CONTOUR INTERVAL 100 FEET**

**Elevations in Feet above Mean Sea Level**

**North American Datum 1983**

**Transverse Mercator Projection**

NATMAP CARTNAT
Canada's National Geoscience Mapping Program
Le Programme national de cartographie géoscientifique du Canada

Canada

**PRELIMINARY GEOLOGY**

# MOUNT WITHROW

**PEACE RIVER DISTRICT**

**BRITISH COLUMBIA**

**Scale 1:50 000 Échelle 1/50 000**

Kilometres 1 0 1 2 3 Kilomètres



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DOSSIER PUBLIC
3737
GEOLOGICAL SURVEY
COMMISSION GÉOLOGIQUE
OTTAWA
JUNE 1999

Although every effort has been made to ensure accuracy, this Open File Report has not been edited for conformity with Geological Survey of Canada standards.

**UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 10**

| | | |
|---|---|---|
| 94G/12 Richards Creek GSC OF 3733 | 94G/11 Minaker River GSC OF 3735 | 94G/10 Trutch |
| 94G/05 Redfern Lake GSC OF 3734 | 94G/06 Mount Withrow GSC OF 3737 | 94G/07 Cypress Creek |
| 94G/04 Mount McCusker | 94G/03 Marion Lake GSC OF 3736 | 94G/02 Pink Mountain |

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