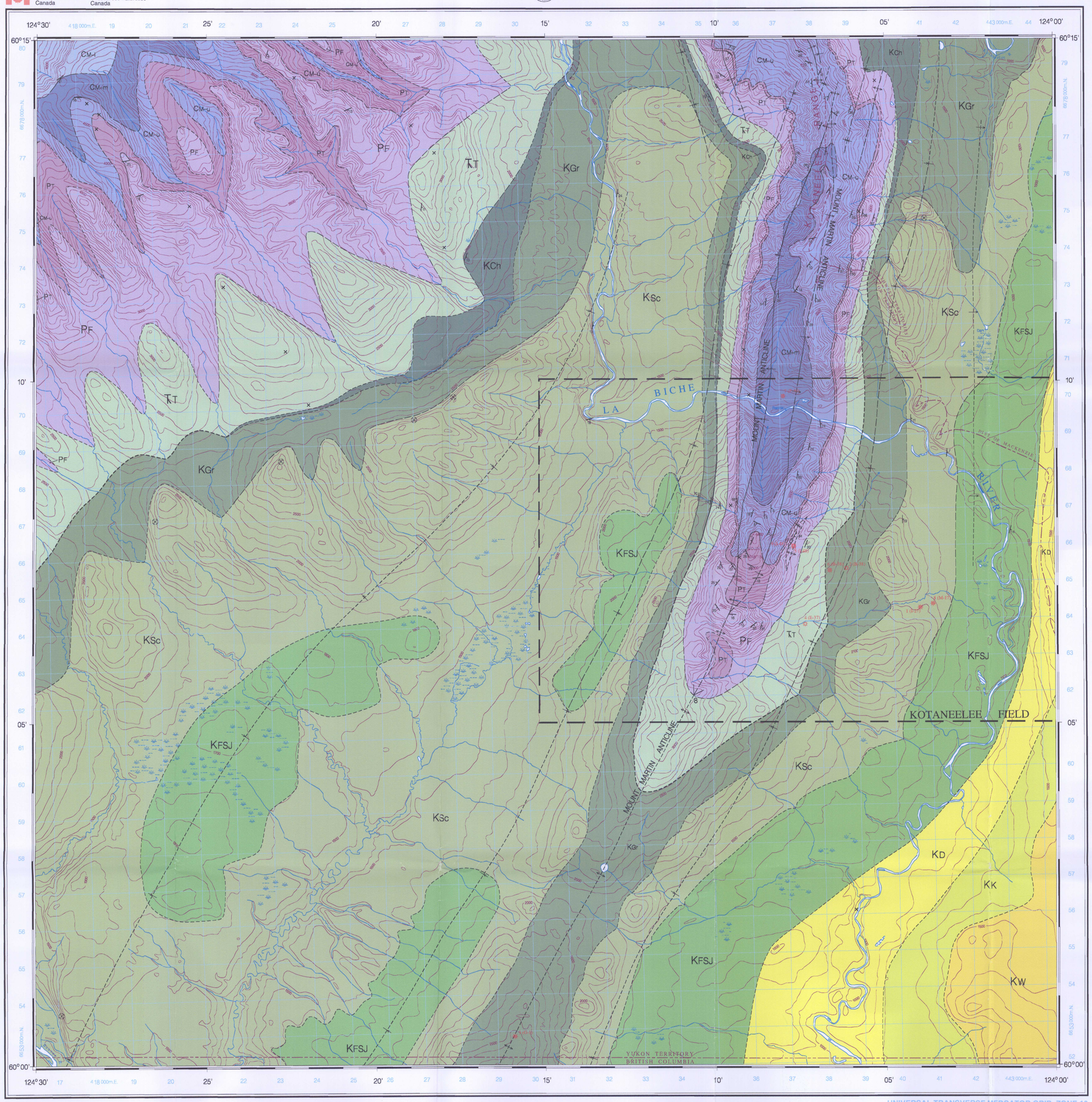
Natural Resources Canada | Ressources naturelles Canada

GEOLOGICAL SURVEY OF CANADA | COMMISSION GÉOLOGIQUE DU CANADA



LEGEND

CRETACEOUS

UPPER CRETACEOUS

- KW — *WAPITI FORMATION:* Buff weathering, medium- to coarse-grained, calcareous, feldspathic sandstone; minor conglomerate and coal.
- KK — *KOTANEELEE FORMATION:* Dark grey shale and mudstone with concretions; minor grey sandstone and conglomerate.
- KD — *DUNVEGAN FORMATION:* Light grey to buff sandstone, massive or cross-bedded; subordinate pebble conglomerate, dark grey silty shale, and coal.

LOWER CRETACEOUS

FORT ST JOHN GROUP

- KFSJ — *undivided shale (Ft. St. John Gp):* Dark grey shale with concretions; locally gypsiferous; locally interbedded with fine-grained greenish-grey sandstone.
- KSc — *SCATTER FORMATION:* Resistant, greenish-grey, glauconitic, laminated sandstone; medium- to thick-bedded; silty, concretionary mudstone common in middle part of unit.
- KGr — *GARBUTT FORMATION:* Grey shale and siltstone with sideritic concretions; minor thin-bedded, finely laminated sandstone; may include the Chinkeh Formation where that unit is too thin to map separately.
- KCh / KCp — *CHINKEH FORMATION:* Chert pebble conglomerate overlain by bioturbated quartz arenite with variable chert content, and argillaceous siltstone; woody or plant debris common.

MESOZOIC

TRIASSIC

DIABER GROUP

- TT — *TOAD FORMATION:* Grey, red, and green shale interbedded with thin-to thick-bedded brown sandstone; locally calcareous or phosphatic.

PERMIAN

ISHBEL GROUP

- PF — *FANTASQUE FORMATION:* Dark grey to white, well bedded, spiculitic chert; rhythmically interbedded with minor shale and siliceous siltstone; basal phosphatic breccia or sandstone.
- PT — *Tika map unit:* Buff weathering, light to medium brown, silty and sandy limestone or dolostone grading into calcareous siltstone and sandstone; subordinate lithoclast breccia and shale; medium-bedded, massive to cross laminated; sparsely fossiliferous; rectilinear fracture pattern characteristic.

LOWER CARBONIFEROUS

MATTSON FORMATION

- CM-u — *UPPER MEMBER:* Light to medium grey, fine- to coarse-grained, locally calcareous or dolomitic quartz arenite and sub-chert-arenite; subordinate fossiliferous limestone, and grey to green shale; sandstone commonly shows large-scale cross bedding; fossils in the limestone are commonly silicified; may include Tika map unit.
- CM-m — *MIDDLE MEMBER:* Grey to buff to brown, poorly- to well-indurated, fine-grained quartz arenite with subordinate siltstone and dark shale; minor coal and sandy dolostone; sandstone shows fine- to large-scale cross bedding; typically forms sharp-based, thick-bedded, fining-up sequences.
- CM-l — *LOWER MEMBER:* Greyish orange weathering, light grey or buff, well-indurated, fine- to very fine-grained quartz arenite interbedded with siltstone and dark grey shale; minor coal, dolostone, and lithoclast breccia; crosslaminae and trace fossils common; typically thin- to medium-bedded with coarsening-up sequences.

PALEOZOIC

MAP SYMBOLS

- *Geological boundary (defined, approximate, assumed)*
- *Outcrop stations*
- *Outcrop; observation by helicopter*
- *Bedding (inclined)* 60
- *Cleavage* 60
- *Anticline (defined, approximate, assumed)*
- *Syncline (defined, approximate, assumed)*
- *Anticlinal kink fold - (defined, approximate, assumed) (See diagram below)*
- *Synclinal kink fold- (defined, approximate, assumed) (See diagram below)*
- *Anticline with plunge (assumed)*
- *Well (Gas, Suspended)*
- *Gas field boundary*

FOLD SYMBOLOGY

Double arrows are used to indicate folds where the dip direction changes across the hinge, and single arrows are used where the dip direction remains the same across a hinge.

LIST OF WELLS

	UWI	FULL NAME	RIG RELEASE	SURFACE LOCATION (Easting, Northing)
1	300I276010124000	CANADA SOUTHERN ET AL N BEAVER R I-27	24-Mar-63	440713, 6664283
2	300B386010124000	COLUMBIA GAS ET AL KOTANEELEE B-38	06-Apr-77	438726, 6665411
3	300D216010124153	PAN AM BEAVER RIVER G-01	11-Jun-77	429454, 6652859
4	300E378010124000	COLUMBIA GAS ETAL KOTANEELEE YT E-37	21-Jan-78	437576, 6663914
5	300I486010124000	COLUMBIA ET AL KOTANEELEE YT I-48	18-Apr-79	437303, 6666023
6	300B386010124001	COLUMBIA ET AL KOTANEELEE B-38	22-Sep-90	438276, 6665359
7	300P506010124001	PAN AM HOME SIGNAL CSP KOTANEELEE P-50	30-Sep-90	437095, 6670104
8	300M178010124001	COLUMBIA ET AL KOTANEELEE M-17	10-Nov-90	441073, 6664413
9	300I486010124004	COLUMBIA ET AL KOTANEELEE I-48	02-May-91	437295, 6666051

Compilation by K. M. Fallas based on fieldwork and studies of vertical air photographs 2000.

THIS MAP IS A PRODUCT OF THE CENTRAL FORELAND NATMAP PROJECT

Geology from field work by K. M. Fallas 2000, with contributions from: R. MacNaughton, R. Aquilini, and R. Moore. Additional data from 1995-1996 fieldwork by M. C. McDonough (Husky Oil Operations Ltd.).

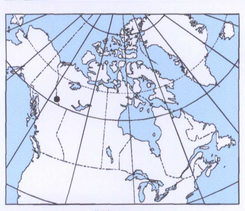
Geological cartography by K. M. Fallas and S. J. Hinds

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
CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level

NOTE:

Editorial update made in Jan 2002.



INDEX MAP

Canada

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

PRELIMINARY GEOLOGY

MOUNT MARTIN

YUKON TERRITORY - BRITISH COLUMBIA - NORTHWEST TERRITORIES

Scale 1:50 000 Échelle 1/50 000

Kilometres 1 0 1 2 3 Kilomètres

Universal Transverse Mercator Projection

Projection transverse universelle de Mercator

OPEN FILE
DOSSIER PUBLIC
3402
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
2002 (Revised)

Open files are products that have not gone through the GSC formal publication process.

Les dossiers publics sont des produits qui n'ont pas été soumis au processus officiel de publication de la CGC.

UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 10

95C/07 Brown Lake GSC OF 4257	95C/08 Babiche Mountain GSC OF 3844	95B/05 Fisherman Lake GSC OF 4161
95C/02 Mount Merrill GSC OF 4264	95C/01 Mount Martin GSC OF 3402	95B/04 Betalamea Lake
94N/15 Crow River	94N/16 Beaver River	94O/13 Sandy Creek

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

Recommended citation:
Fallas K. M.
2002: Preliminary Geology - Mount Martin (95C/01), Yukon Territory, British Columbia, and the Northwest Territories; Geological Survey of Canada, Open File map 3402, scale 1:50 000, (revised).