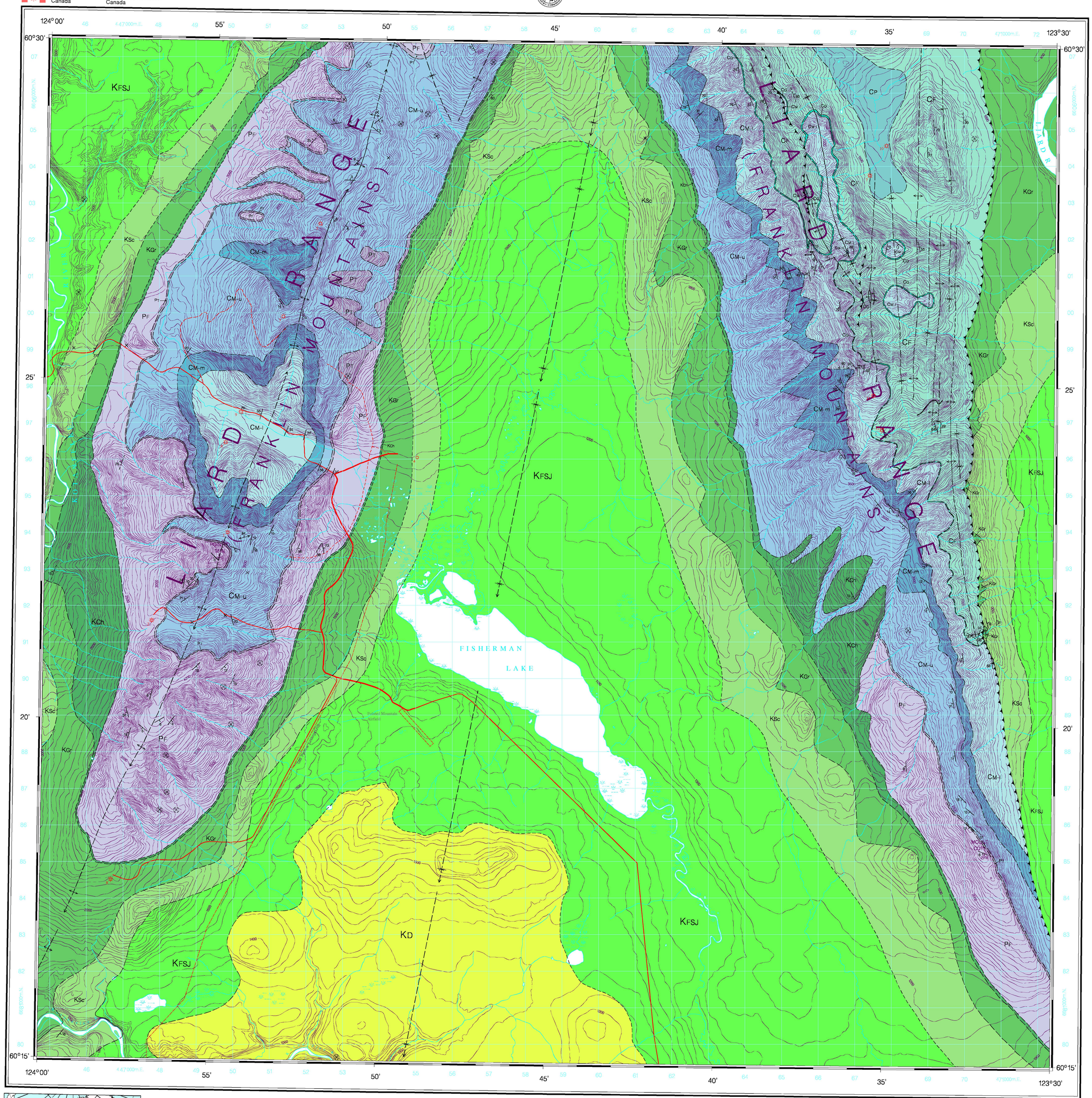
Natural Resources Canada | Ressources naturelles Canada

GEOLOGICAL SURVEY OF CANADA | COMMISSION GÉOLOGIQUE DU CANADA



LEGEND

CRETACEOUS

UPPER CRETACEOUS

FORT ST JOHN GROUP

- KD — *DUNVEGAN FORMATION: Light grey to buff sandstone, massive or crossbedded; subordinate pebble conglomerate, dark grey silty shale, and coal.*

LOWER CRETACEOUS

- KFSJ — *undivided shale (Ft. St. John Gp): Dark grey shale with concretions; locally gypsiferous; locally interbedded with fine-grained greenish-grey sandstone. Includes Sully and Lepine formations where Sikanni Formation is not mapped.*
- KSk — *SIKANNI FORMATION: Greenish grey sandstone, siltstone, and shale; sandstone is thick-bedded, commonly calcareous or glauconitic, typically thinly laminated and crosslaminated.*
- KGr — *GARBUTT FORMATION: Grey shale and siltstone with siderlitic concretions; minor thin-bedded, finely laminated sandstone; may include the Chinkeh Formation where that unit is too thin to map separately.*
- KCh — *CHINKEH FORMATION: Chert-pebble conglomerate overlain by bioturbated quartz arenite with variable chert content, and argillaceous siltstone; woody or plant debris common.*

MESOZOIC

PERMIAN

ISHBEL GROUP

- PF — *FANTASQUE FORMATION: Dark grey to white, well bedded, spiculitic chert; rusty weathering; rhythmically interbedded with minor shale and siliceous siltstone.*
- 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 crosslaminated; sparsely fossiliferous; western occurrences rhythmically bedded; 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, dolostone, and grey to green shale; sandstone commonly shows large-scale crossbedding; 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 crossbedding; 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; western occurrences turbiditic.*
- CG — *GOLATA FORMATION: Dark grey to black shale and silty mudstone; subordinate muddy sandstone and fossiliferous limestone and dolostone; proportion of carbonates decreases and sandstone increases up section.*
- CF — *FLETT FORMATION: Grey, cherty, skeletal lime wackestone and packstone; subordinate grainstone, calcareous shale, mudstone and spiculite; medial unit comprises sandstone, siltstone and mudstone with subordinate limestone, massive bedding; megascale intraformational truncation surfaces common.*
- CP — *PROPHET FORMATION: Greyish-orange weathering, dark grey, calcareous to dolomitic, bedded chert and spiculite; subordinate medium to dark grey, cherty skeletal lime wackestone and packstone, sandstone, and black to dark grey shale; well bedded, commonly rhythmic; megascale intraformational truncation surfaces common.*

PALEOZOIC

MAP SYMBOLS

- *Geological boundary (defined, approximate, assumed)*
- *Bedding form line*
- *Outcrop stations*
- *Outcrop; remote observation*
- *Bedding (inclined)*
- *Bedding; observation from the air*
- *Cleavage*
- *Fracture*
- *Anticline (defined, approximate, assumed)*
- *Anticline with plunge (defined, approximate)*
- *Anticlinal kink fold - (defined, approximate, assumed) (See diagram below)*
- *Syncline (defined, approximate, assumed)*
- *Syncline with plunge (approximate)*
- *Synclinal kink fold- (defined, approximate, assumed) (See diagram below)*
- *Well (Gas, Gas suspended, unknown)*
- *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

	UWID	FULL NAME	RIG RELEASE	SURFACE LOCATION (Easting, Northing)
1	300P536030123450	PAN AM POINTED MOUNTAIN P-53	08-Feb-66	449863,6693999
2	300G626030123450	PAN AM POINTED MOUNTAIN G-62	09-Jul-68	447784,6691595
3	300O466030123450	AMOCO POINTED MOUNTAIN (B-1) O-46	29-Mar-69	451385, 6699900
4	300P246030123450	AMOCO POINTED MOUNTAIN P-24	11-Feb-72	455042,6696041
5	300F386030123450	AMOCO B-2 POINTED MOUNTAIN F-38	22-Aug-72	452401, 6702434
6	300A656030123450	AMOCO A-4 POINTED MOUNTAIN A-55	01-Mar-74	449810, 6696461
7	300D296030123300	PARAMOUNT ET AL LIARD D-29	28-Jan-79	467417, 6703746
8	300L686020123450	AMOCO POINTED MOUNTAIN D-1 L-68	04-Nov-87	446660,6684516
9	300K456030123451	PAN AM POINTED MOUNTAIN K-45(A-2)	12-Sep-92	450225,6697289
10	300K296030123300	CHEVRON ET AL FT. LIARD K-29	03-Feb-99	467872,6704559
11	300M256030123300	CHEVRON ET AL LIARD M-25	29-Sep-99	467511, 6697729
12	300F256030123300	NORTHCOR ET AL LIARD F-25	03-Jan-01	467745,6696792

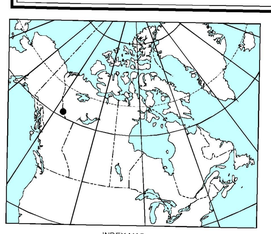
Geology by L. S. Lane based on fieldwork in 2000 and 2001, with contributions from Ryan Aquilini, Glenn Hynes and Asha Yanko

THIS MAP IS A PRODUCT OF THE CENTRAL FORELAND NATMAP PROJECT

Geological cartography by M.D. Ponto 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



INDEX MAP

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

GEOLOGY
FISHERMAN LAKE
DISTRICT OF MACKENZIE
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

UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 10

OPEN FILE
DOSSIER PUBLIC
4161
GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
DEC 2001

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.

95C/9 Chinkeh Creek GSC OF 3843	95B/12 Mount Flett	95B/11 Denedothada Creek
95C/08 Babiche Mountain GSC OF 3844	95B/05 Fisherman Lake GSC OF 4161	95B/06 no title
95C/01 Mount Martin GSC OF 3402	95B/04 Betalamea Lake	95B/03 Fort Liard

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

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Lane L. S.
2001: Geology, Fisherman Lake, Northwest Territories (95B/5); Geological Survey of Canada, Open File map 4161, scale 1:50 000.

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