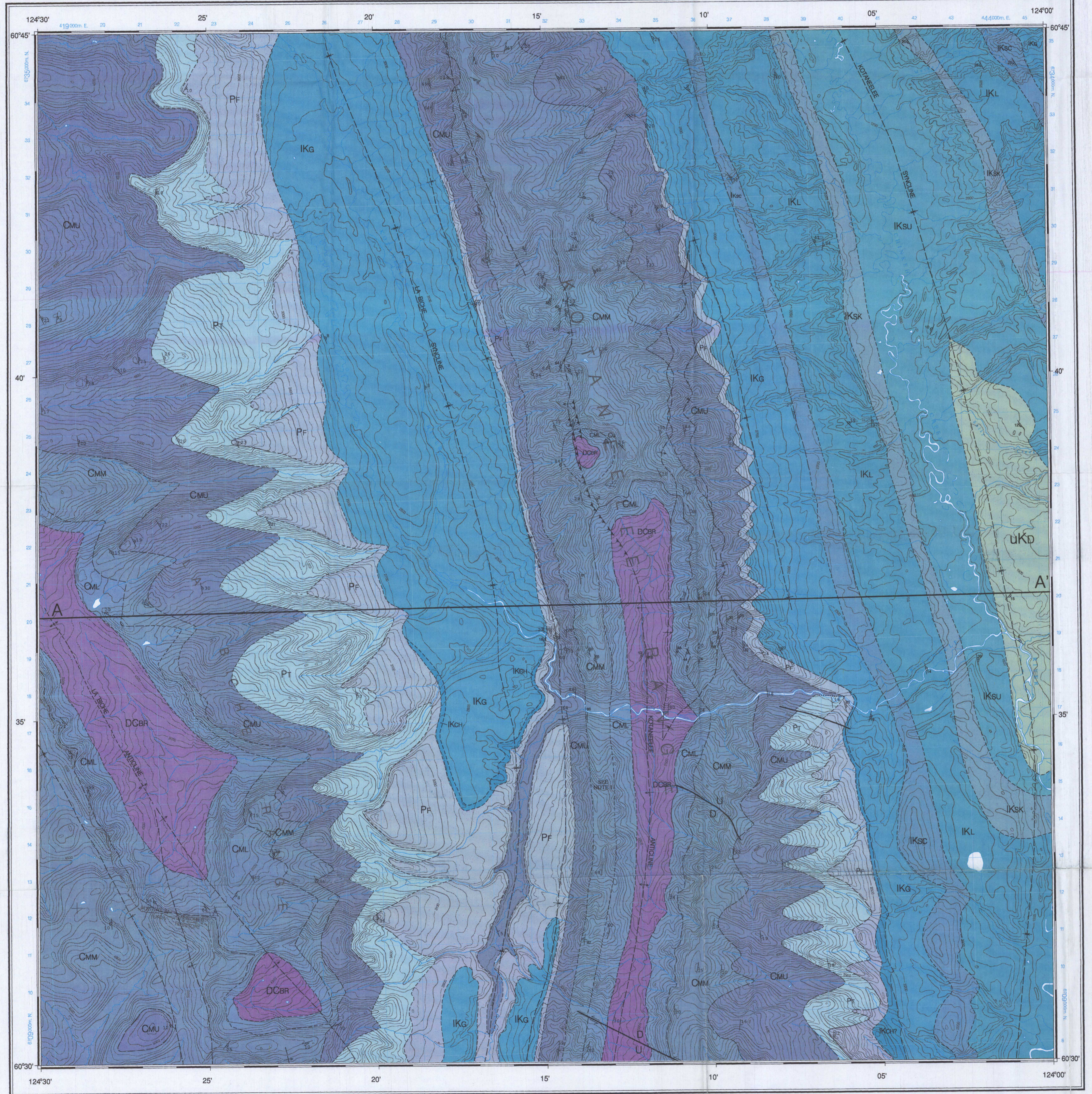


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LEGEND

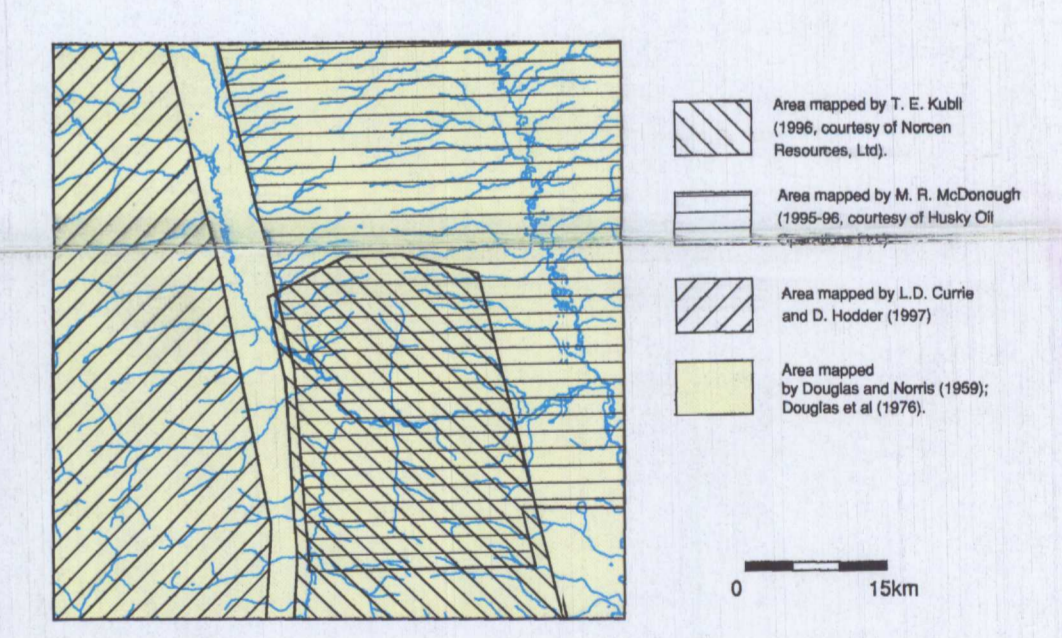
- CRETACEOUS**
- UPPER CRETACEOUS**
- IKSu **DUNVEGAN FORMATION:** Thinly bedded, light grey to brown, silty shale with medium to thick interbeds of light brown, very fine-grained, poorly cemented quartz arenite, with abundant carbonaceous debris on bedding surfaces.
- LOWER CRETACEOUS**
- FORT ST. JOHN GROUP (IKSu - IKG)**
- IKSu **SULLY FORMATION:** dark grey shale with minor siderite concretions.
- IKSk **SKANNI FORMATION:** rusty weathering, thinly bedded, medium-grey to greenish grey siltstone with interbedded medium- to dark-grey shale.
- IKL **LEPINE FORMATION:** dark grey to black concretionary shale with thin Fe-stained, orange-weathering siltstone beds, and minor quartz arenite.
- IKSc **SCATTER FORMATION:** distinctive olive-green to medium-brown weathering, medium- to thick bedded, very fine-grained sandstone to siltstone, with minor interbedded concretionary dark grey shale.
- IKG **GARBUTT FORMATION:** basal quartz arenite of variable thickness, and overlying dark weathering concretionary shales, may include Chinkeh Formation.
- IKCh **CHINKEH FORMATION (?)**: basal siltic breccia with very angular clasts of white chert in a matrix of dark grey siltstone (8-10 cm thick), interbedded shales, dolomitized siltstone and fine-grained sandstone with abundant zoofossils.
- PERMIAN**
- PF **FANTASQUE FORMATION:** rhythmically bedded chert and associated minor shale, siliceous siltstone and chert breccia.
- Pt **Tika map unit:** medium to dark brown (fresh surface), fine-grained silty limestone, silty dolomite, and calcareous quartzarenite.
- LOWER CARBONIFEROUS**
- CMu **UPPER MATTSON FORMATION:** quartzarenite, shale, fossiliferous limestone and dolomite, poorly indurated, dolomitic quartz arenite, and minor subchertarenite.
- CMm **MIDDLE MATTSON FORMATION:** poorly- to well-indurated, medium-grained, buff-weathering quartz arenite and medium to dark grey shale, with minor dark-orange weathering limestone and sandy limestone near the base.
- CML **LOWER MATTSON FORMATION:** rusty-weathering, locally biturbated, fine- to medium-grained quartz arenite and medium to dark grey shale.
- DEVONIAN TO LOWER CARBONIFEROUS**
- DCBr **BESA RIVER FORMATION:** variably calcareous, and locally dolomitic dark grey to black shale with minor interbedded siltstone and lesser orange-weathering, fine-grained sandstone layers.

MAP SYMBOLS

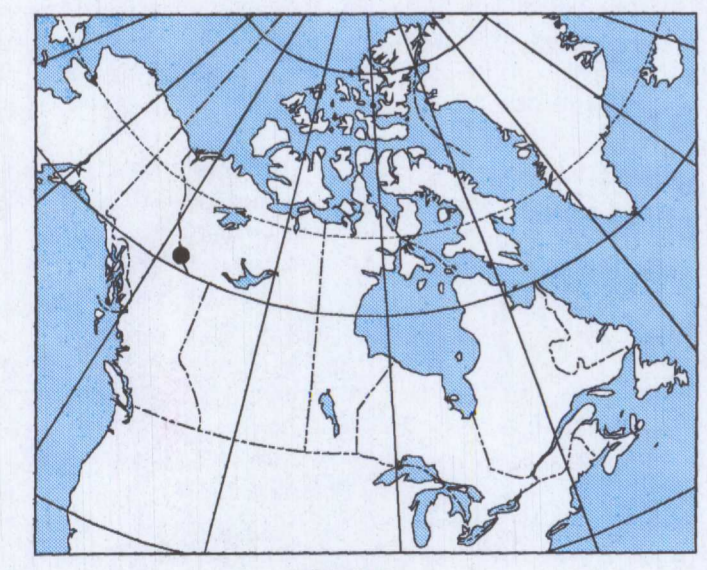
- Geological boundary (defined, approximate, assumed)
- Lithological unit nomenclature change
- LOCAL STRUCTURES**
- PLANAR STRUCTURES**
- Bedding, tops known (horizontal, inclined, overturned)
- Bedding, tops unknown (inclined, horizontal)
- REGIONAL STRUCTURES**
- Thrust fault (teeth indicate dip direction; defined, assumed)
- Fault, sense uncertain (approximate, assumed)
- Normal fault (arrows indicate lateral movement)
- Anticline (defined, approximate, assumed)
- Syncline (defined, approximate, assumed)
- Anticline - limbs dip in same direction, arrow on steeper limb (certain, approximate, assumed)
- Syncline - limbs dip in same direction, arrow on steeper limb (certain, approximate, assumed)
- Overturned anticline (defined, approximate, assumed)
- Overturned syncline (defined, approximate, assumed)
- Overturned anticline - limbs dip in opposite direction (certain, approximate, assumed)
- Overturned syncline - limbs dip in opposite direction (certain, approximate, assumed)
- OTHERS**
- Copper occurrence (chalcopyrite)

REFERENCES

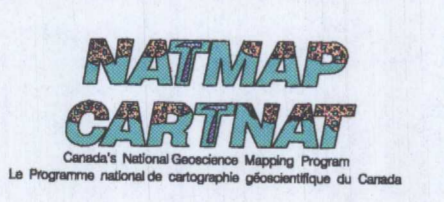
- Douglas, R.J.W. (comp.)
1976: La Biche River. Geological Survey of Canada, Map 1380A; scale 1:250 000.
- Douglas, R.J.W. and Norris, D.K.
1959: Fort Lard and La Biche map-areas, Northwest Territories and Yukon; Geological Survey of Canada Paper 59-6, 23 p.
- Lackie, D., Potocki, D. and Visser, K.
1991: The Lower Cretaceous Chinkeh Formation: A frontier-type play in the Lard Basin of Western Canada, AAPG Bulletin, v. 7 no 8, p. 1324-1352.



Geological compilation by L.D. Currie, 1997
 Geology by: L.D. Currie, T. E. Kubi, M.R. McDonough, 1995-97; based on fieldwork and studies of vertical air photographs 1998.
 THIS MAP IS A PRODUCT OF THE CENTRAL FORELAND NATMAP PROJECT
 Geological cartography by: L.D. Currie, T. E. Kubi, M. McDonough, and S.J. Hinds, Geological Survey of Canada
 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
 North American Datum 1983
 Transverse Mercator Projection



PRELIMINARY GEOLOGY
CHINKEH CREEK (95C/9)
 YUKON AND NORTHWEST TERRITORIES

Scale 1:50 000 Echelle 1/50 000
 Kilometres 1 0 1 2 3 Kilomètres
 Universal Transverse Mercator Projection
 Projection Transverse universelle de Mercator
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 FEB 2000

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.

| | | |
|------------------------|---|----------------------------|
| 95C/15 Dendale Lake | 95C/16 Etanda Lakes | 95B/13 Sawmill Mountain |
| 95C/10 Tika Creek | 95C/9 Chinkeh Creek GSC Open File 3843 | 95B/12 Mount Fleet |
| 95C/7 Brown Lake | 95C/8 Babiche Mountain GSC Open File 3844 | 95B/5 Fisherman Lake |

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

- NOTES:**
- Slumping is common on the steep west limb of the Kotanelee Anticline. Although the structure is overturned toward the west, some overturned bedding measurements may be affected by slumping.
 - Stratigraphic data, published by Lackie et al. (1991) have been used in the compilation.
 - 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., Kubi, T.E., and McDonough, M.R.,
 1998: Preliminary Geology, Chinkeh Creek (95C/9), Yukon and Northwest Territories;
 Geological Survey of Canada, Open File map 3843, scale 1:50,000.



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