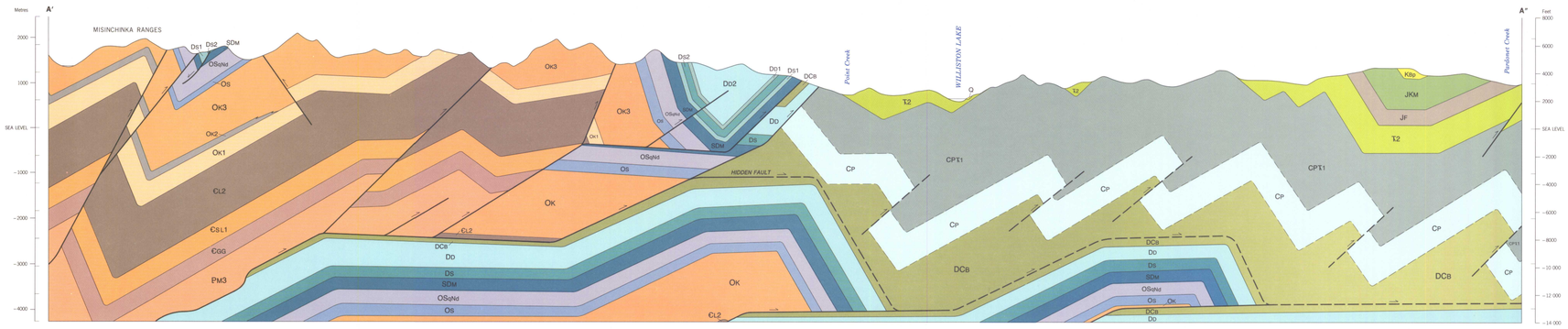
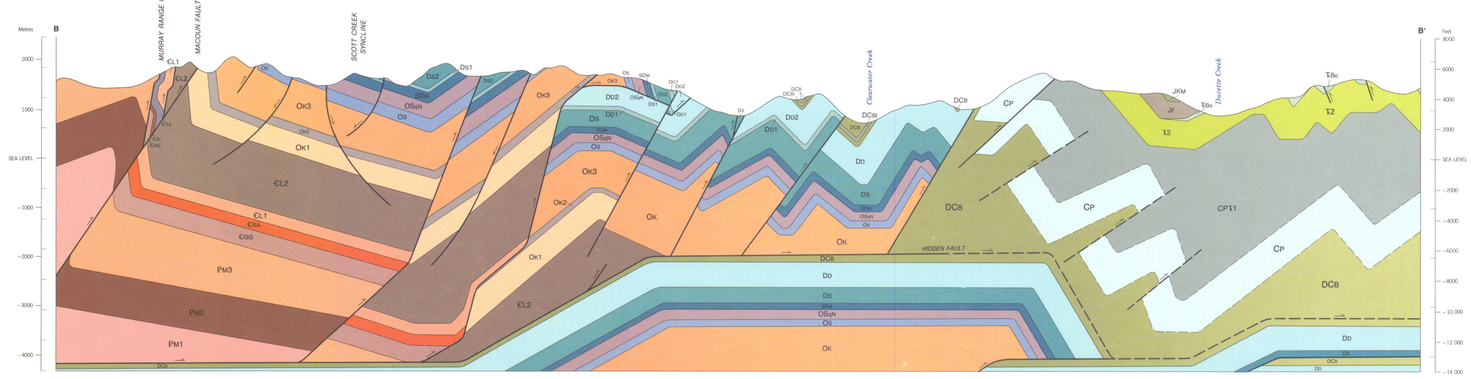
GEOLOGICAL SURVEY OF CANADA COMMISSION GÉOLOGIQUE DU CANADA

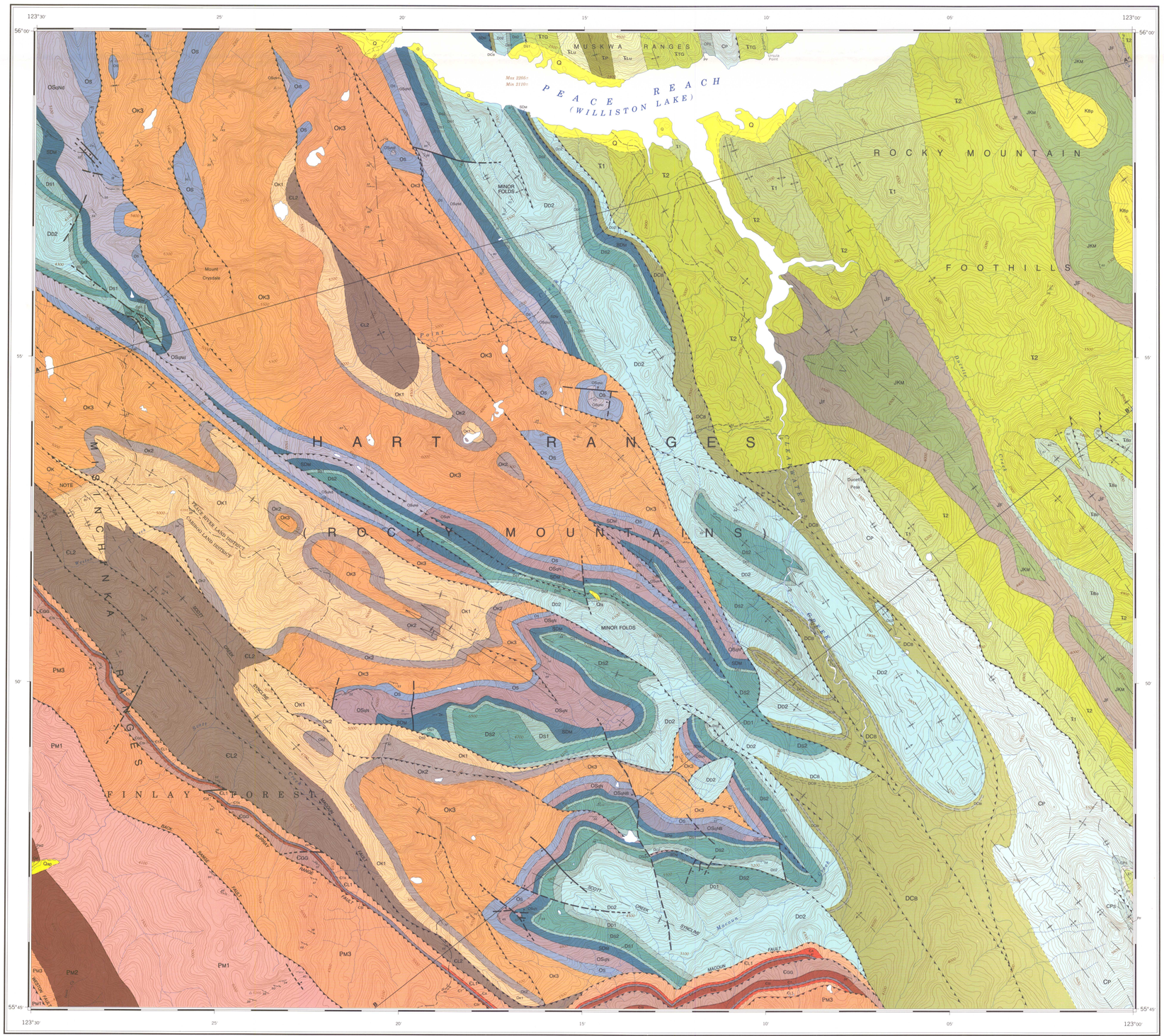
DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES



Cross-section along A' - A''



Cross-section along B - B'



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100 West Pender Street, Vancouver, B.C. V6B 1R8

INDEX MAP

Canada

MAP 1624A

GEOLOGY

POINT CREEK

BRITISH COLUMBIA

Scale 1:50 000

Kilometres 1 0 1 2 3 4 Kilometres

Transverse Mercator Projection

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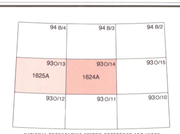


NATIONAL TOPOGRAPHIC SYSTEM REFERENCE AND INDEX TO ADJOINING GEOLOGICAL SURVEY OF CANADA MAPS

Printed by the Surveys and Mapping Branch, Published 1986

LEGEND

CENOZOIC

QUATERNARY
PLEISTOCENE AND RECENT

- Q — *Gravel; sand; silt; undivided alluvial and fluvial deposits*
- Qap — *Modern alluvium: gravel; sand; silt; minor muck and peat; mostly floodplain and channel deposits*
- Qaf — *Fan deposits (including associated contiguous sediments): poorly sorted gravel, sand, silt, and clay*
- Qls — *Landslide deposits*

MESOZOIC

CRETACEOUS
LOWER CRETACEOUS

- KBp — *BEATTIE PEAKS FORMATION: silty mudstone; sandstone*

JURASSIC AND CRETACEOUS
UPPER JURASSIC AND LOWER CRETACEOUS

- JKM — *MONTEITH FORMATION: sandstone; minor shale*

JURASSIC

- JF — *FERNIE FORMATION: shale; siltstone; minor sandstone*

TRIASSIC
UPPER TRIASSIC

- TBo — *BOCOCK FORMATION: limestone, resistant*
- TP — *PARDONET FORMATION: carbonaceous-argillaceous limestone; calcareous and dolomitic siltstone; minor shale*
- T2 — *CHARLIE LAKE, BALDONNEL AND PARDONET FORMATIONS: carbonaceous-argillaceous limestone; limestone; dolomite; calcareous and dolomitic siltstone; minor sandstone*

MIDDLE AND UPPER TRIASSIC

- TLu — *LUDINGTON FORMATION: dolomitic and calcareous siltstone; sandstone; silty to sandy, bioclastic limestone*

LOWER, MIDDLE AND UPPER TRIASSIC

- T1 — *TOAD, GRAYLING, AND LIARD FORMATIONS: dolomitic and calcareous siltstone; silty shale; silty limestone; dolomitic and calcareous sandstone; minor silty dolomite*

LOWER AND MIDDLE TRIASSIC

- TTG — *TOAD AND GRAYLING FORMATIONS: dolomitic and calcareous siltstone; silty shale; silty limestone; minor silty dolomite; calcareous sandstone*

} CPT1 — *STODDART GROUP, KINDLE, FANTASQUE, TOAD, GRAYING AND LIARD FORMATIONS: undivided (structure sections only)*

PERMIAN

- PF — *FANTASQUE FORMATION: bedded chert; minor lenses of cherty, phosphatic dolomite*

CARBONIFEROUS AND PERMIAN

- CPS — *STODDART GROUP AND KINDLE FORMATION: shale; sandstone; siltstone; limestone*

CARBONIFEROUS
LOWER CARBONIFEROUS

- CP — *PROPHET FORMATION: limestone; skeletal limestone; calcareous mudstone; spiculite; chert nodules in upper part*

DEVONIAN AND CARBONIFEROUS
UPPER DEVONIAN AND LOWER CARBONIFEROUS

- DCB | DCBI — *BESA RIVER FORMATION: dark grey argillite; calcareous shale; minor limestone; spiculite*
  DCBI: nodular, argillaceous limestone; relatively resistant

DEVONIAN
MIDDLE DEVONIAN
DUNEDIN FORMATION (DD1-DD2)

- DD2 — *Upper unit: limestone; argillaceous limestone; massive secondary dolomite locally*
- DD1 — *Lower unit: argillaceous limestone; calcareous shale; minor limestone; quartz sandstone; red shale locally; recessive*

} DD — *DUNEDIN FORMATION: undivided (structure sections only)*

LOWER DEVONIAN
STONE FORMATION (DS1-DS2)

- DS2 — *Upper unit: light grey, silty dolomite*
- DS1 — *Lower unit; tan weathering, silty dolomite; quartz sandstone; dolomitic sandstone*

} DS — *STONE FORMATION: undivided (structure sections only)*

SILURIAN AND DEVONIAN
UPPER SILURIAN AND LOWER DEVONIAN

- SDM — *MUNCHO-McCONNELL FORMATION: light grey dolomite; sandy dolomite; minor breccia*

ORDOVICIAN AND SILURIAN
UPPER ORDOVICIAN AND LOWER SILURIAN

- OSqNd | OSqNd | OSqNd — *Quartzite and dolomite unit and NONDA FORMATION: silty and argillaceous dolomite; quartzite; dolomitic quartzite; and chert nodules*
  OSqNd: dolomite, silty dolomite and minor quartz sandstone of the Beaverfoot Formation occur between the Quartzite and dolomite unit and the Nonda Formation
  OSqNd: argillaceous limestone; nodular cherty dolomite, and shale of the Limestone, dolomite and shale unit occur at the base

PALEOZOIC

ORDOVICIAN
MIDDLE ORDOVICIAN

- OS — *SKOKI FORMATION: dolomite; oncolitic dolomite; minor sandstone*

LOWER ORDOVICIAN
KECHIKA GROUP (OK1-OK3)

- OK3 — *Upper unit: argillaceous, silty, nodular-to wavy-bedded limestone; minor calcareous argillite*
- OK2 — *Middle unit: wavy banded, silty limestone; minor quartz sandstone*
- OK1 — *Lower unit: cleaved, argillaceous, silty limestone; nodular, silty limestone*

} OK — *KECHIKA GROUP: undivided*

CAMBRIAN
UPPER CAMBRIAN
LYNX FORMATION (CL1-CL2)

- CL2 — *Upper unit: calcareous argillite and argillite with limestone nodules; silty, argillaceous, nodular-to wavy-bedded limestone; minor limestone*
- CL1 — *Lower unit: dolomite; sandy to silty dolomite; minor quartz sandstone at base*

MIDDLE CAMBRIAN

- CA — *ARCTOMYS FORMATION: tan weathering, silty dolomite; black and red shale; argillaceous dolomite*
- CT — *TITKANA FORMATION: light grey dolomite, commonly laminated*

} CTA — *TITKANA AND ARCTOMYS FORMATIONS: undivided*

} CSA — *SNAKE INDIAN, TITKANA AND ARCTOMYS FORMATIONS: undivided (structure section only)*

- CSI — *SNAKE INDIAN FORMATION: red shale; tan weathering dolomite; sandy dolomite; dolomitic quartz sandstone at base*

} CSL1 — *SNAKE INDIAN, TITKANA, ARCTOMYS FORMATIONS, and Lower unit of the LYNX FORMATION: undivided (structure section only)*

LOWER CAMBRIAN

- CGG — *GOG GROUP: quartzite; dolomitic and argillaceous quartzite; shale; minor dolomite; rare pebble conglomerate*

PROTEROZOIC

UPPER PROTEROZOIC
MISINCHINKA GROUP (PM1-PM3)

- PM3 — *Upper clastic unit: grey, silty argillite; quartzite; siltite*
- PM2 — *Middle carbonate unit: limestone; dolomite; sandy limestone and dolomite; quartzite; minor argillite*
- PM1 — *Lower clastic unit: phyllite; siltite; diamictite; feldspathic quartzite; minor carbonate*

Geological boundary (defined, approximate, assumed)
Bedding, tops known (inclined, vertical, overturned)
Bedding, tops unknown (inclined)
Cleavage (inclined)
Minor fold axis (trend and plunge)
Fault, strike slip, or sense of displacement unknown (defined, approximate, assumed)
Fault, normal (defined, approximate, assumed; solid circle indicates downthrow side)
Fault, reverse or thrust (defined, approximate, assumed; teeth on upthrust side)
Anticline (defined, approximate, assumed; arrow indicates direction of plunge)
Syncline (defined, approximate, assumed)
Anticline and syncline, overturned (defined, approximate)
Line of section B — B'

Geological compilation by M.E. McMechan, 1980

NOTE

The Kechika Group was not subdivided northwest of this line

Geological cartography by S.D. Orzeck, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada

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

Base map at the same scale published by the Surveys and Mapping Branch in 1981

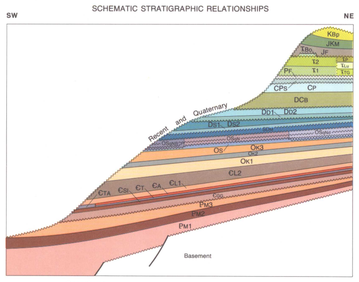
Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, Ontario, K1A 0E9

Magnetic declination 1986 varies from 25°34' easterly at centre of west edge to 25°28' easterly at centre of east edge. Mean annual change 16.9' westerly

Elevations in feet above mean sea level

Recommended citation:
McMechan, M.E.
1986: Geology, Point Creek, British Columbia; Geological Survey of Canada, Map 1624A, scale 1:50 000

SCHEMATIC STRATIGRAPHIC RELATIONSHIPS



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MAP 1624A
POINT CREEK
BRITISH COLUMBIA

1624A

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