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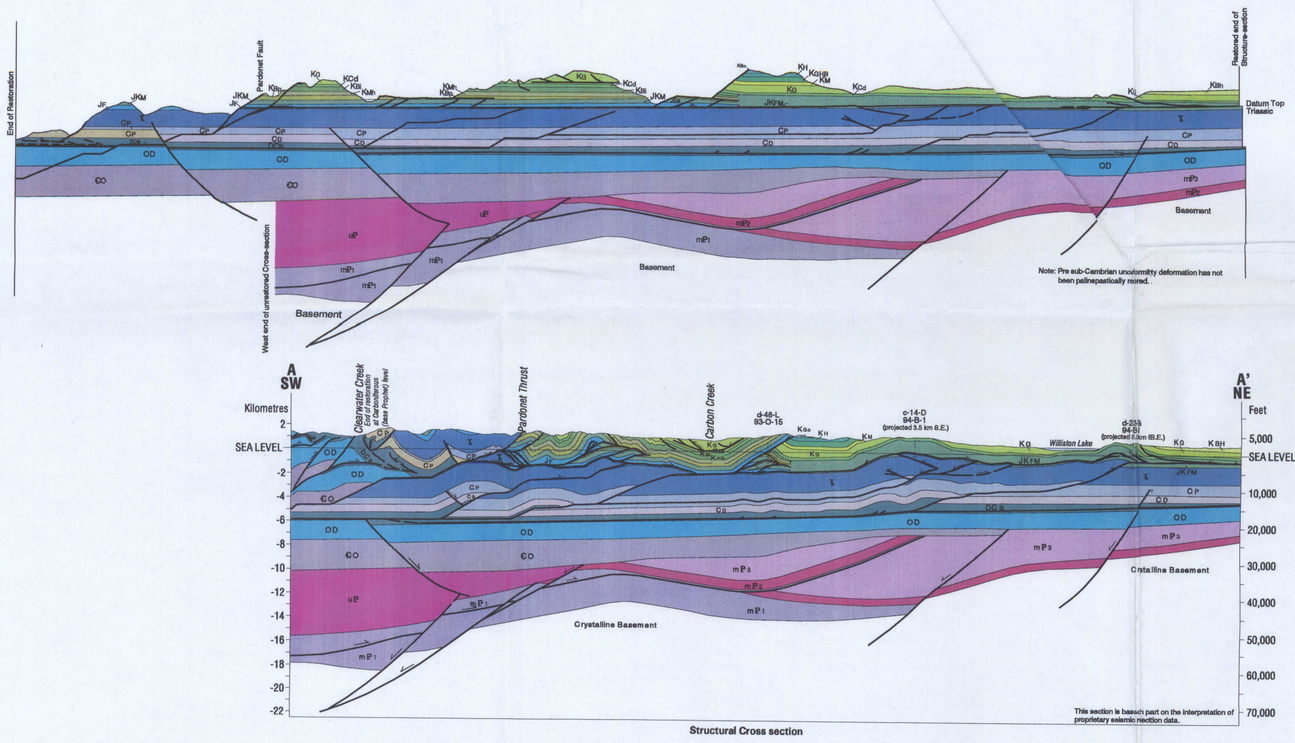
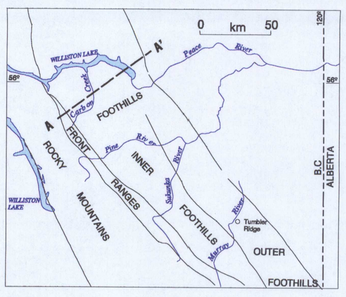
GEOLOGICAL SURVEY OF ANADA | COMMISSION GÉOLOGIQUE DU CANADA



Structural Cross section



CONTOUR INTERVAL 100 FEET
Elevations in Feet above Mean Sea Level
North American Datum 1983
Transverse Mercator Projection

Map after McMechan 1987.
GSC Paper 85-28, Figure 3
Not revised to include mapping by Legun(1987, B.C. Geological Survey Branch Open File 1987-21) of Carbon Creek basin incorperated in cross section.

LEGEND

QUATERNARY
PLEISTOCENE AND RECENT
- Qal — *Gravel; sand; silt; clay; till*

CRETACEOUS
UPPER CRETACEOUS
- KD — *DUNVEGAN FORMATION: sandstone; shale; minor conglomerate*

FORT ST. JOHN GROUP (KM-KCr)
- KCr — *CRUISER FORMATION: dark grey, sideritic shale*

LOWER CRETACEOUS
- KGo — *GOODRICH FORMATION: sandstone; minor shale*
- KH — *HASLER FORMATION: dark grey, sideritic shale*
- KGHB — *GATES, HULCROSS AND BOULDER CREEK FORMATIONS: sandstone; shale; mudstone; coal; conglomerate*
- KM — *MOOSEBAR FORMATION: dark grey, sideritic shale*

BULLHEAD GROUP (KCd-KG)
- KG — *GETHING FORMATION: sandstone; shale; conglomerate; coal*
- KCd — *CADOMIN FORMATION: conglomerate; sandstone*

MINNES GROUP (KBI)
- KBI — *BICKFORD FORMATION: sandstone; siltstone; shale; coal*
- KMh — *MONACH FORMATION: sandstone*
- KBP — *BEATTIE PEAKS FORMATION: silty mudstone; sandstone*

JURASSIC AND CRETACEOUS
UPPER JURASSIC AND LOWER CRETACEOUS
- JKM — *MONTEITH FORMATION: fine grained sandstone; minor shale*

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

TRIASSIC
UPPER TRIASSIC
- T2 — *CHARLIE LAKE, BALDONNEL, PARDONET AND (LOCALLY) BOCOCK FORMATIONS: carbonaceous-argillaceous limestone; limestone; dolomite; calcareous and dolomitic siltstone; minor sandstone*

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

CARBONIFEROUS AND PERMIAN
- CP — *STODDART GROUP, KINDLE AND FANTASQUE FORMATIONS: shale; sandstone; siltstone; limestone; chert*

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 — *BESA RIVER FORMATION: dark grey argillite; calcareous shale; minor limestone; spiculite*

DEVONIAN
MIDDLE DEVONIAN
- DD — *DUNEDIN FORMATION: limestone; argillaceous limestone; massive secondary dolomite locally; calcareous shale; shale; minor quartz sandstone at base*

LOWER DEVONIAN
- DS — *STONE FORMATION: silty dolomite; quartz sandstone; dolomitic sandstone*

ORDOVICIAN, SILURIAN AND DEVONIAN
MIDDLE AND UPPER ORDOVICIAN,LOWER AND UPPER SILURIAN, AND LOWER DEVONIAN
- OSD — *SKOKI FORMATION: limestone, dolomite and shale unit, Quartzite and dolomite unit, BEAVERFOOT FORMATION (LOCALLY), NONDA AND MUNCHO-McCONNELL FORMATIONS: dolomite; silty, argillaceous, sandy sandy dolomite; oncolitic dolomite; limestone; quartzite; shale*

ORDOVICIAN
LOWER ORDOVICIAN
KECHIKA GROUP (O K1 - K3)
- OK3 — *Upper unit: argillaceous, silty, nodular-to wavy-bedded limestone; minor calcareous argillite*
- OK2 — *Middle unit: wavy bedded, silty limestone; minor quartz sandstone*
- OK1 — *Lower unit: cleaved, argillaceous, silty limestone; nodular, silty limestone*

CAMBRIAN
UPPER CAMBRIAN
- CL2 — *LYNX FORMATION (CL1 - 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
- CSA — *SNAKE INDIAN, ELDON AND ARCTOMYS FORMATIONS: silty, sandy and argillaceous dolomite; varicoloured shale; dolomite; minor quartz sandstone*

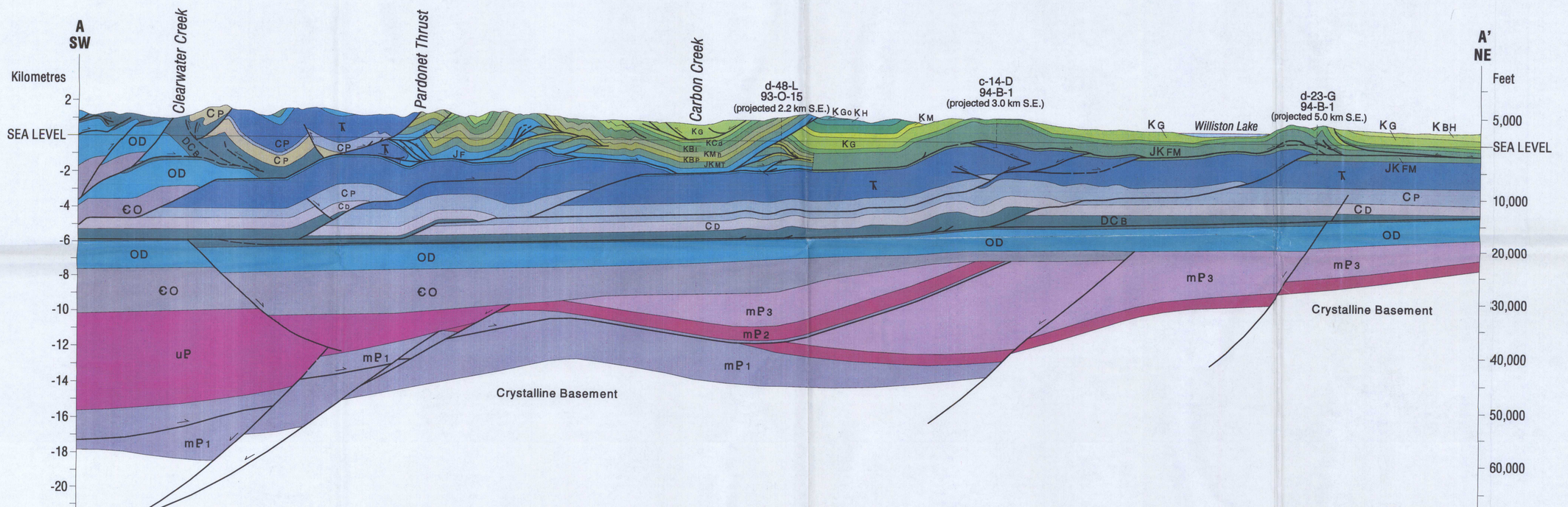
LOWER CAMBRIAN
- CGG — *GOG GROUP: quartzite; dolomitic and argillaceous quartzite; shale; minor dolomite; rare pebbly conglomerate*

NEOPROTEROZOIC
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*

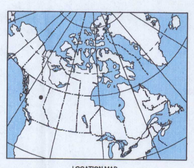
MESOPROTEROZOIC(?)
- mP3 — *Upper seismic reflection unit (structure section only)*
- mP2 — *Middle seismic reflection unit (structure section only)*
- mP1 — *Lower seismic reflection unit (structure section only)*

- KGH — *GATES, HULCROSS AND BOULDER CREEK FORMATIONS: sandstone; shale; mudstone; coal; conglomerate*
- KBH — *BUCKINGHORSE FORMATION: sideritic shale; siltstone; minor sandstone*
- KCG — *CADOMIN AND GETHING FORMATIONS: undivided*
- KMB — *MONACH AND BICKFORD FORMATIONS(undivided); sandstone, silty mudstone*
- KBB — *BEATTIE PEAKS(?), MONACH AND(?) BICKFORD FORMATIONS: silty mudstone; sandstone*
- JKFM — *FERNIE FORMATION AND MINNES GROUP; undivided (structure section only)*
- T — *TRIASSIC; undivided*
- CD — *DEBOLT FORMATION: limestone; skeletal limestone; minor calcareous mudstone (structure section only)*
- OD — *SKOKI, NONDA, MUNCHO-McCONNELL, STONE AND DUNEDIN FORMATIONS: undivided (structure section only)*
- CO — *GOG GROUP, SNAKE INDIAN, ELDON ARCTOMYS, AND LYNX FORMATIONS, AND KECHIKA GROUP: undivided (structure section only)*
- CSL1 — *SNAKE INDIAN, ELDON, ARCTOMYS AND LOWER UNIT OF LYNX FORMATION undivided*
- uP — *WINDEMERE SUPERGROUP: diamictite, sandstone argillite, dolomite, limestone (structure section only)*

Geological boundary (defined, approximate, assumed)
Fault, normal (approximate)
Fault, thrust (defined, approx, assumed; teeth indicate upthrust side)
Fault, transverse (approximate)
Anticline (approximate)
Syncline (approximate, overturned)
Exploratory well



Structural Cross section
scale 1:125 000



LOCATION MAP

Copies of this map are available from:
Publications Office
Geological Survey of Canada
3303-33rd Street, N.W.
Calgary, Alberta T2L 2A7
Phone: 403/292-7030
Email: gsc_calgary@gsc.nrcan.gc.ca

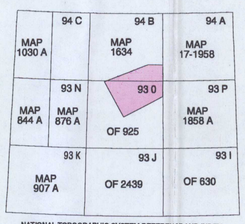
OPEN FILE 3553

Structure section and geological map of the Foothills and Front Ranges, Carbon Creek area, northeast British Columbia

Scale 1:250 000 - Échelle 1/250 000

Kilometres 5 0 5 10 15 20 Kilomètres

Universal Transverse Mercator Projection
Projection transverse universelle de Mercator



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

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3553
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OTTAWA
09/2000

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Geological Survey of Canada, Open File 3553

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