

- QUATERNARY**
- Qd Till, gravel, sand, silt, and alluvium
- CRETACEOUS**
- UPPER CRETACEOUS**
- KBR BELLY RIVER FORMATION: grey and green mudstone, shale, and crossbedded sandstone (nonmarine)
 - KWp ALBERTA GROUP (Kw - Kwv) WAPATI FORMATION: dark grey shale, silty shale, and fine grained sandstone (marine)
 - KCa CARDIUM FORMATION: dark grey sandstone and silty shale (marine)
 - KBk BLACKSTONE FORMATION: dark grey shale, silty shale, and fine grained sandstone (marine)
- LOWER CRETACEOUS**
- KC CROWNEST FORMATION: light grey, alkalic volcanic sandstone, mudstone, and conglomerate (nonmarine)
 - KBi BLAIRMORE GROUP: grey and greenish grey mudstone and sandstone; green and maroon, silty mudstone; conglomerate (nonmarine)
 - KE KOOTENAY GROUP (Jko - Ke) ELK FORMATION: grey, silty sandstone, siltstone, and silty mudstone; humic and sapropelic coal; rare conglomerate (nonmarine)
- JURASSIC AND CRETACEOUS**
- JKMM UPPER JURASSIC AND LOWER CRETACEOUS WEST MOUNTAIN FORMATION: dark grey siltstone and mudstone; grey, silty sandstone; black, carbonaceous shale; humic coal; rare conglomerate (nonmarine)
 - JMo MORRISSEY FORMATION: light grey sandstone, locally conglomeratic; carbonaceous shale; coal (nonmarine)
 - JF FERRIE FORMATION: dark grey and black shale; grey siltstone and sandstone; limestone; phosphate (nonmarine)
- TRIASSIC**
- TWh SPRAY RIVER GROUP: calcareous and dolomitic sandstone and siltstone; minor sandy, quartzose dolomite; limestone; solution collapse breccia (marine)
 - TSM SULPHUR MOUNTAIN FORMATION: calcareous and dolomitic siltstone and sandstone; silty limestone and dolomite; shale (marine)
- CARBONIFEROUS AND PERMIAN**
- UPPER CARBONIFEROUS AND PERMIAN ROCKY MOUNTAIN SUPERGROUP:** light grey, quartzitic, dolomitic and calcareous sandstone; dark grey sandstone; silty dolomite; cherty dolomite; chert (marine)
- ISHBEL GROUP and SPRAY LAKES GROUP:** (structure sections only)
- LOWER CARBONIFEROUS RUNDEL GROUP (Cu - Ct)**
- CEt ETHERINGTON FORMATION: light grey limestone, cherty limestone, and calcarenite limestone; dolomite; cherty dolomite; green and red shale; siltstone (marine)
 - CMH-L MOUNT HEAD FORMATION (CmH - CmH-L) Carnarvon Member: dark grey and black, dense limestone Marston Member: light grey to black, silty dolomite and limestone Opal Member: grey and dark grey, skeletal and oolitic limestone; minor micritic limestone and dolomite; chert (marine)
- CMH-L Loomis Member:** grey limestone and calcarenite limestone (Sater Member: light grey, sandy and silty dolomite (marine))
- CLv LIVINGSTONE FORMATION: light grey, skeletal calcarenite and calcarenite limestone; cherty limestone; dolomite (marine)
- DEVONIAN AND CARBONIFEROUS**
- DCBf EXSHAW and BANFF formations: black shale and silty limestone (Exshaw); dark grey, cherty, argillaceous limestone; black chert; calcarenite limestone; minor black shale (marine)
- DEVONIAN**
- UPPER DEVONIAN**
- DPs PALLISER FORMATION: dark grey, finely crystalline limestone and dolomite limestone (marine)
 - DF FAIRHOLME GROUP: (structure sections only)
- CAMBRIAN**
- MIDDLE CAMBRIAN**
- mC Undivided (structure sections only)

LEGEND

This legend is common to maps 1823A, 1824A. Coloured legend blocks indicate map units that appear on this map.

Geological boundary (defined, approximate, assumed) ...

Geological boundary (assumed projection under cover of younger deposits) ...

Bedding, tops known (inclined, vertical, overturned) ...

Thrust fault (with indicates upthrow side; defined, approximate, assumed) ...

Thrust fault (assumed projection under cover of younger deposits) ...

Transverse fault (arrow indicates relative movement) ...

Fault (solid circle indicates downthrow side; defined, approximate, assumed) ...

Anticline (overturned; arrow indicates plunge; defined, approximate) ...

Anticline and syncline (assumed projection under cover of younger deposits) ...

Syncline (overturned; arrow indicates plunge; defined, approximate) ...

Fossil locality, GSC catalogue number ...

Location of measured stratigraphic section ...

Line of section ...

Dotted line denotes change in mapping precision. Stratigraphic subdivisions are amalgamated at dotted line ...

Abandoned well ...

SOURCES OF INFORMATION

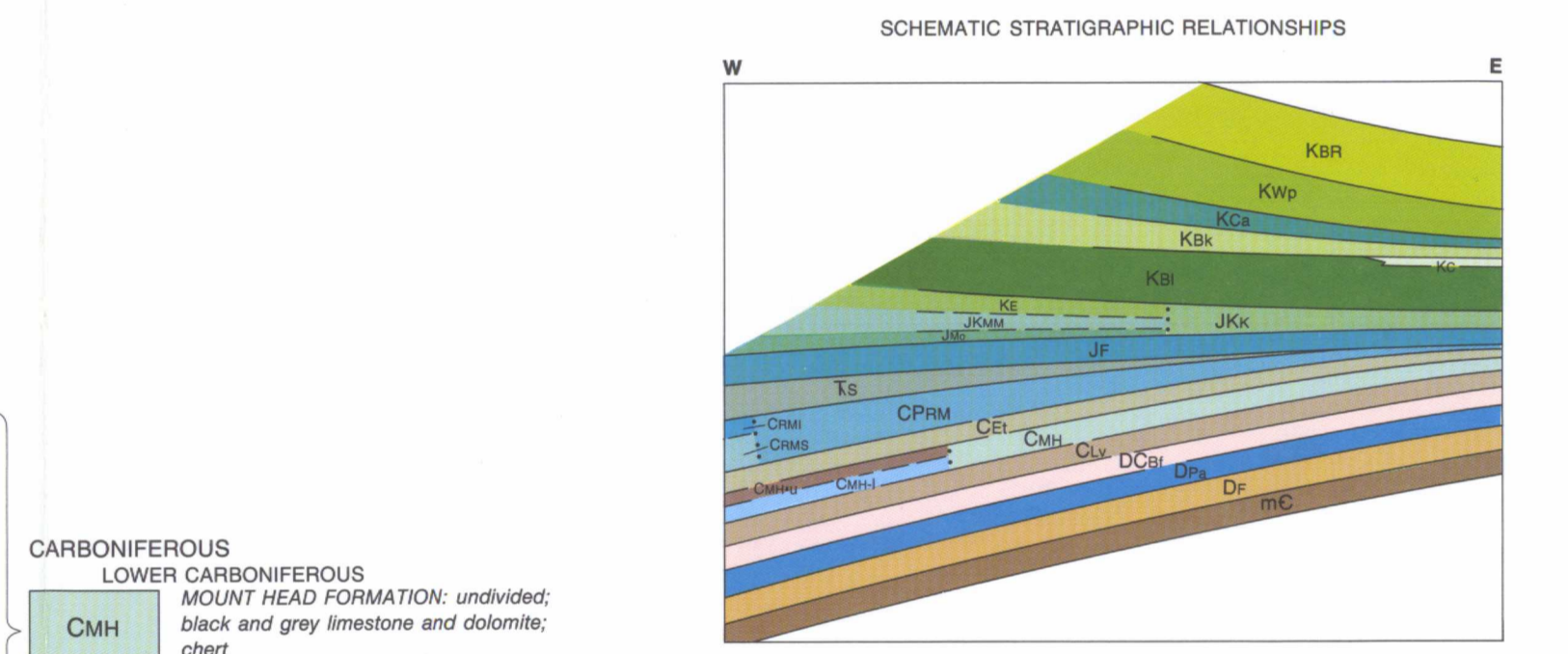
- Price, R.A., 1962: Fernie map area, East Half Alberta-British Columbia (NTS 82G/15) (Report and Map 35-198); Geological Survey of Canada, Paper 61-24.
- Price, R.A., 1981: Geology of Tornado Mountain (NTS 82G/15); unpublished geological map.
- Grieve, D.A. and Price, R.A., 1987: Geological setting of the south half of the Elk Valley Coalfield, southeastern British Columbia, British Columbia Ministry of Energy, Mines and Petroleum Resources, Preliminary Map 63.

JURASSIC AND CRETACEOUS

- JKK KOOTENAY GROUP: undivided

TRIASSIC

- Ts SPRAY RIVER GROUP: undivided; dark grey, silty shale; dolomitic or siltitic, argillaceous limestone



Geology by R.A. Price, D.A. Grieve, and C. Patenaude 1981, 1982

Geological cartography by M.D. Wallace, 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 1980

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

Approximate magnetic declination 1991, 18°47' East, decreasing 6.8' annually

Elevations in feet above mean sea level

MAP 1823A
GEOLOGY
TORNADO MOUNTAIN
WEST OF FIFTH MERIDIAN
BRITISH COLUMBIA-ALBERTA
Scale 1:50 000 - Échelle 1/50 000

Kilometres 0 1 2 3 4 Kilometres

Universal Transverse Mercator Projection / Projection transverse universelle de Mercator

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Sheet 1 of 2, Map 1823A, Geology
Recommended citation:
Price, R.A., Grieve, D.A., and Patenaude, C.
1982: Geology, Tornado Mountain, British Columbia-Alberta.
Geological Survey of Canada, Map 1823A, scale 1:50 000

1823A 1082