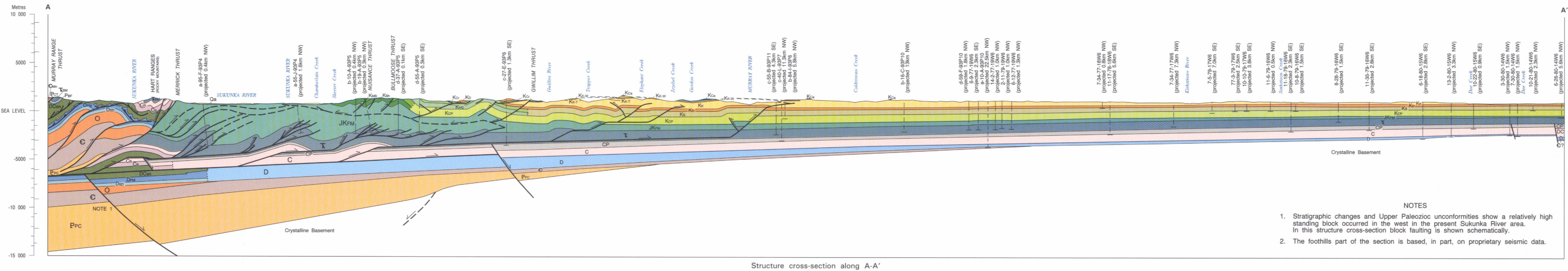
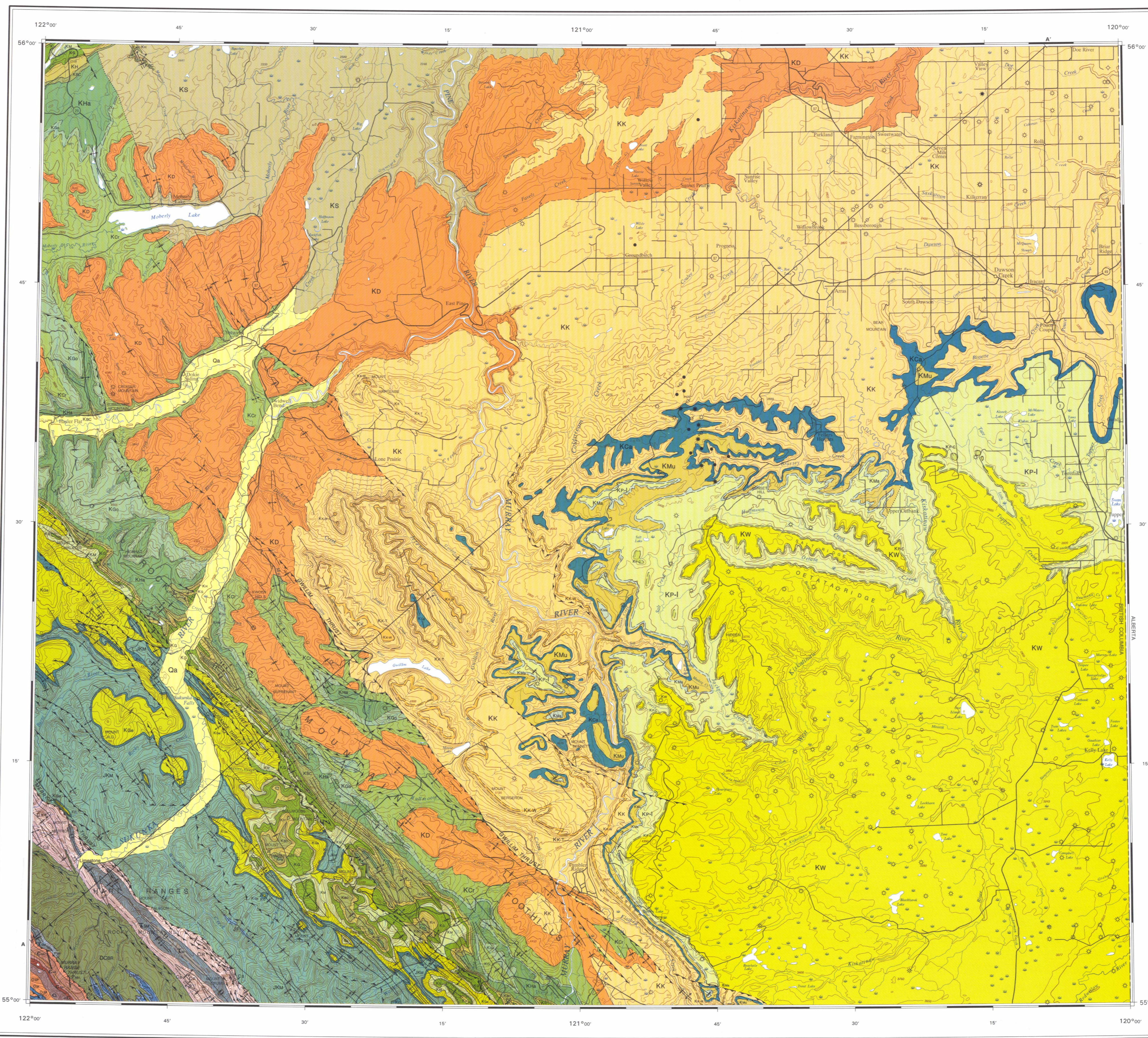


LEGEND

- QUATERNARY**
 - PLEISTOCENE AND RECENT
 - Qa** Till, alluvium, colluvium
- CRETACEOUS**
 - UPPER CRETACEOUS
 - KW** WARTY FORMATION: sandstone, carbonaceous shale, conglomerate
 - KP-C** SANDY GROUP (K - K1) / PUKWASKAU FORMATION (KP1 - K1-C): Change Member: sandstone, coal
 - KP-I** Dowling, Thibe and Hanson Members: dark grey shale, carbonaceous shale, siltstone; various Muskeg Members: northwest of measurable limit of Westport Sandstone
 - KMa** MARSHYBANK FORMATION: sandstone, carbonaceous shale
 - KMu** MUSKI FORMATION: dark grey shale, silty shale, sandstone
 - KCa** CARDUM FORMATION: sandstone, carbonaceous shale, conglomerate
 - KK** KASKAPAU FORMATION (Kk-w - K k): Dark grey shale, locally calcareous sandstone; Kk-1 - Tootoona Sandstone
 - KK-w** Waterloo Sandstone: sandstone, conglomerate
 - KD** DUNVEGAN FORMATION: sandstone, shale, siltstone; minor conglomerate
 - KC** FORT ST. JOHN GROUP (Kf - K c): CRAUSER FORMATION: dark grey, silty shale
 - LOWER CRETACEOUS
 - KGa** GOODRICH FORMATION: sandstone, minor shale
 - KHg** HASLER FORMATION: dark grey, silty shale
 - KBc** BOULDER CREEK FORMATION: sandstone, conglomerate, shale
 - KH** HULLCROSS FORMATION: dark grey, silty shale
 - KG** GATES FORMATION: sandstone, shale, coal, siltstone, mudstone
 - KM** MOOSEBAR FORMATION: dark grey, silty shale
 - KGa** BULLHEAD GROUP (Kc - K ca): GETHING FORMATION: sandstone, shale, conglomerate, coal
 - KG** CADOMIN FORMATION: conglomerate, sandstone
- JURASSIC AND CRETACEOUS**
 - UPPER JURASSIC AND LOWER CRETACEOUS
 - JKM** MINNES GROUP: sandstone, siltstone, shale, coal
 - JURASSIC
 - JF** FERNE FORMATION: shale, siltstone; minor sandstone
- TRIASSIC**
 - SPRAY RIVER GROUP (Tsm - T w)
 - Tw** WINTEROSE FORMATION: limestone, dolomite, minor sandstone, siltstone, gypsum
 - Tsm** SULPHUR MOUNTAIN FORMATION: dolomite and calcareous siltstone; minor limestone, dolomite, shale, sandstone
- PERMIAN**
 - Pf** BELCOURT, Urmard and FANTASQUE FORMATIONS: limestone, chert, minor argillaceous dolomite, siltstone
- CARBONIFEROUS AND PERMIAN**
 - UPPER CARBONIFEROUS AND PERMIAN
 - CP** STODART GROUP and BELLO FORMATION: sandstone, shale, siltstone, limestone, dolomite. Subsurface only
 - LOWER CARBONIFEROUS
 - CR** RUNDLE GROUP: limestone, dolomite, calcareous shale
 - Cb** BANFF FORMATION: brown calcareous shale, limestone, black shale
- DEVONIAN AND CARBONIFEROUS**
 - UPPER DEVONIAN AND CARBONIFEROUS
 - DCE** EXSHAW FORMATION: black shale, siltstone. Subsurface only; not mapped
 - DCb** BEA RIVER FORMATION: black shale, sandstone
 - UPPER DEVONIAN
 - DMH** MOUNT HARK FORMATION: argillaceous limestone, limestone
 - DPn** PERDRIX FORMATION: shale, calcareous shale
- MIDDLE DEVONIAN**
 - DD** DUNDY FORMATION: limestone, argillaceous limestone, calcareous shale, shale; minor sandstone at base. Schematic only
 - DS** STONE FORMATION: silty dolomite, quartz sandstone, dolomite. Schematic only
- ORDOVICIAN**
 - UPPER ORDOVICIAN
 - OB** BEAVERFOOT FORMATION: dolomite, quartz sandstone at base
 - MIDDLE ORDOVICIAN
 - OSR** SKOKI AND ROAD RIVER FORMATIONS: dolomite, sandstone, calcareous sandstone, dark shale, calcareous shale
 - LOWER ORDOVICIAN
 - OM** Monkman Quartzite: quartz sandstone
 - OSP** SURVEY PEAK FORMATION: limestone, argillaceous limestone, calcareous shale, shale
- CAMBRIAN**
 - UPPER CAMBRIAN
 - Cl** LYXK FORMATION: limestone, dolomite, calcareous shale, shale
 - MIDDLE CAMBRIAN
 - IE** SNAKE INDIAN, ELDON AND ARCTOMYS FORMATIONS: dolomite siltstone, shale, dolomite; minor sandy dolomite
 - LOWER CAMBRIAN
 - CMh** GOG GROUP (Cmh - C mh): MAITO FORMATION: quartzite; minor dolomitic quartzite, dolomite
 - CMs** MURAL FORMATION: dolomitic quartzite, dolomite, sandy dolomite, quartzite, argillite
 - CMh** MAHAUGHTON FORMATION: quartzite, argillaceous quartzite, siltstone, argillite, pebbly sandstone at base
- UPPER PROTEROZOIC**
 - MESCHINKA GROUP (Pc - P c1)
 - Pc1** CUT THUMB FORMATION: argillite; minor sandstone
 - Pc** PAKSUMO, WREELAND, FRAMSTEAD AND CHOWIKA FORMATIONS: diorite, siltstone, argillite, sandstone, granite, conglomerate, dolomite. Subsurface only



NOTES
 1. Stratigraphic changes and Upper Paleozoic unconformities show a relatively high standing block occurred in the west in the present Sukukia River area. In this structure cross-section block faulting is shown schematically.
 2. The foothills part of the section is based, in part, on proprietary seismic data.



- Geological boundary (defined, approximate, assumed)
- Fault, thrust or reverse (defined, approximate, assumed)
- Fault, transverse
- Anticline (overturned, defined, approximate)
- Syncline (overturned, defined, approximate)
- Lateral change in lithofacies
- Limit of measurable unit, dashed line denotes amalgamation of stratigraphic subdivisions or changes in stratigraphic nomenclature
- Line of section
- Quarry
- Limit of coal mine
- Well (from B.C. Ministry of Energy, Mines and Petroleum Resources, 1994: oil, gas, of oil and gas, dry and abandoned, injection, status unknown)

Geological interpretation and digital compilation by M.E. McMechan 1992-93, based on published and unpublished sources indicated

Digital cartography by E. Macey, Institute of Sedimentary and Petroleum Geology, Geological Survey of Canada

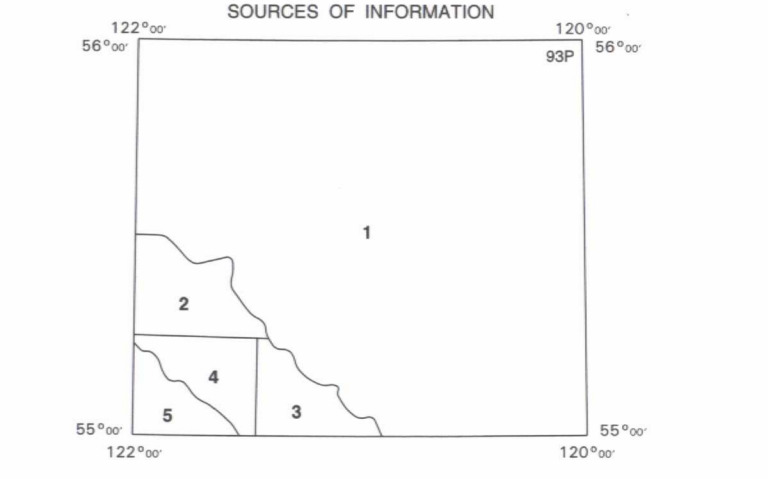
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base map at the same scale published by the Survey and Mapping Branch in 1984

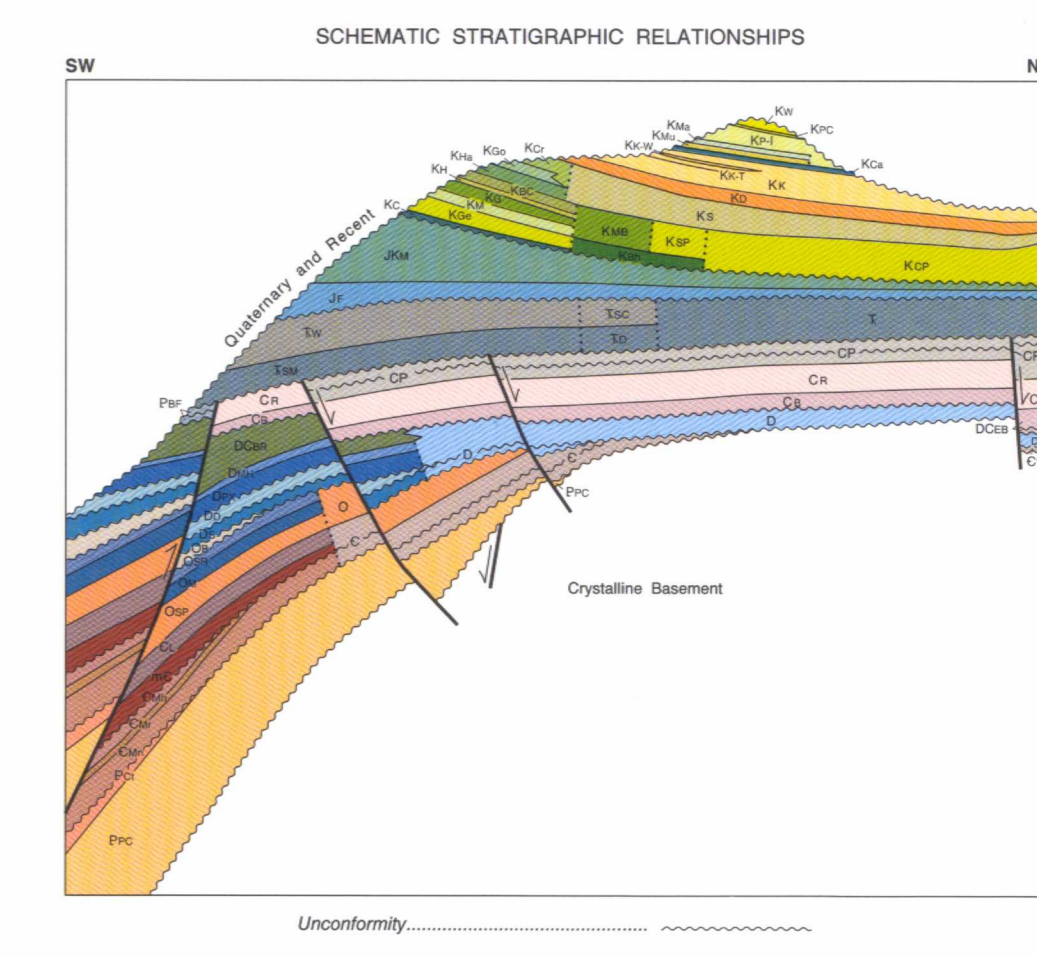
Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Natural Resources Canada, Ottawa, Ontario, K1A 0S9

Approximate magnetic declination 1994, 23°40' East, decreasing 10.0' annually

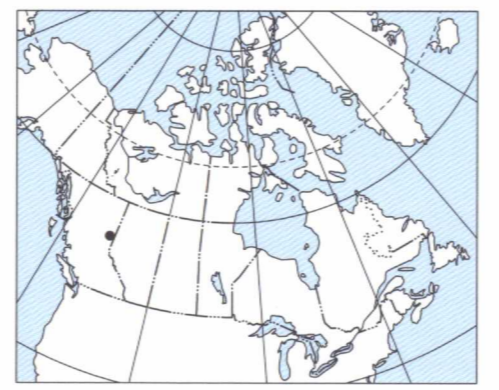
Elevations in feet above mean sea level



- Ground and air observations, air photo interpretation by D.F. Boyd (1958-1960) and M.E. McMechan (1982) and Boyd, D.F. 1961; Geological Survey of Canada Map 19-1961.
- Hunter, D.J. and Cunningham, J.M., 1991; British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Survey Branch, Open File Map 1991-4.
- Kibby, W.E. and Wighton, C.B., 1987; British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Survey Branch, Open File Map 1987-6.
- Kibby, W.E. and Wighton, C.B., 1987; British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Survey Branch, Open File Map 1987-7.
- Ground and air observations by M.E. McMechan, 1992.



Copies of this map may be obtained from the Geological Survey of Canada, 601 Booth Street, Ottawa, Ontario K1A 0S8, 3800-104 Street, N.W., Calgary, Alberta T2C 2A7, 100 West Pender Street, Vancouver, B.C. V6B 1G6



MAP 1858A
 GEOLOGY
 DAWSON CREEK
 WEST OF SIXTH MERIDIAN
 BRITISH COLUMBIA
 Scale 1:250 000 - Echelle 1/250 000

94 B	94 A	94 D
1634A	17-1908	
93-O	93-P	93-M
0F-025	1858A	
93-J	93-I	93-L
1204A	0F-030	0F-213

GEOLOGICAL SURVEY OF CANADA / COMMISSION GÉOLOGIQUE DU CANADA
 APR 20 1995
 MAP LIBRARY / CARTOTHEQUE
 CGIC / CCIG

NOT TO BE TAKEN FROM LIBRARY / NE PAS SORTIR DE LA BIBLIOTHÈQUE

Recommended citation: McMechan, M.E., 1994. Geology and structure cross-section, Dawson Creek, British Columbia. Geological Survey of Canada, Map 1958A, scale 1:250 000.

1858A