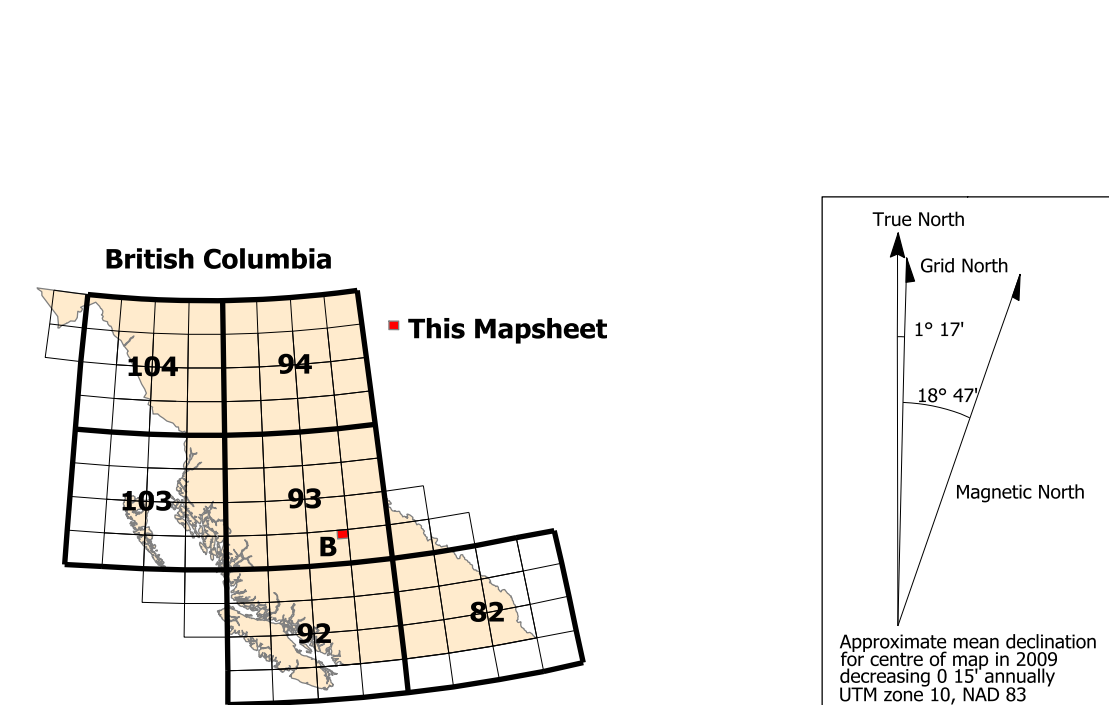




INTRUSIVE ROCKS

Dragon Mountain section

Thick bedded, chaotic or weakly graded polygenic granule to cobble volcanic conglomerate, interlayered with grey or green siltstone and gritty sandstone, white and grey limestone and quartz dominated grit. Commonly pale green due to pervasive epidote ± pyrite overprint or replacement of volcanic clasts rare, green pyroxene porphyritic basalt

Thin laminated black argillite, phyllite and brownish-grey siltstone, characteristic dark with graphitic, pyritic and minor calcareous intervals

Late Triassic

Nicola Group - Western volcanoclastic succession

Maroon volcanoclastic succession

Maroon, massive or thick-bedded, pyroxene- and feldspar-porphyry basalt-clast dominated polyphitic conglomerate, limestone, crystal-rich sandstone and siltstone, maroon and green vesicular basalt flows and hyaloclastite

Green volcanoclastic succession

Green, massive or foliated pyroxene pyroxite maficvolcanic flow units, conglomerate, limestone, calcareous tuff and tuffaceous siltstone

Bioclastic limestone, argillaceous limestone, dark banded calcareous shale and tuffaceous siltstone

Pyroxene porphyry trachytic basalt flows and breccia, hyaloclastite and tuffaceous sandstone

Nicola Group - Eastern Sedimentary succession

Cottonwood River succession

Thin, parallel & low angle wavy laminated green, green, buff and black cherty argillite, volcanic siltstone, argillite and rare limestone horizon. Cleaved parallel to bedding into 50 mm thick domains separated by 2 mm phyllite partings

Middle to Late Triassic

Black Pelite succession

Thin interbedded grey and black, phyllite, graphitic ± pyritic argillite, buff and grey siltstone and fine sandstone with detrital muscovite and quartz. Polyolithic conglomerate horizons. Ndg = Black Phyllite Unit

Green pyroxene-porphyritic volcanoclastic rocks and flow breccia units

Mississippian to Jurassic

Cache Creek Group

Thin bedded, siliceous siltstone, ribbert chert and phyllite, massive recrystallized limestone interlayered with greenstone and basalt

Geological contact (defined, approximate, assumed).....	○ × ○ × ○ ×
Unconformity (assumed).....	
Bedding (inclined, vertical, tops known).....	
Dominant foliation (inclined, vertical).....	
Crenulation cleavage (inclined, vertical).....	
Brittle shear (inclined, vertical).....	
Dike (inclined, vertical).....	
Vein (inclined, vertical).....	
Joint (inclined, vertical).....	
Early crenulation lineation (plunge indicated).....	
Fold axis.....	
Axis of late, open folds.....	
Mineral or stretching lineation (plunge indicated).....	
Fault; downthrown side indicated (defined, approximate, assumed)	
Macrofossil.....	
Microfossil.....	
40/39 Argon isotopic age determination site.....	
Potassium-Argon isotopic age determination site.....	
Uranium/Lead isotopic age determination site.....	
Railroad.....	
Highway.....	
Track.....	
Lake.....	
Marsh.....	
Outcrop (area, isolated).....	

Bacon, W.R. (1964): Geological, geochemical and geophysical report on the Gerim and Sam chain camp, Quesnel River area; submitted by Mastodon-Highland Bell Mines Ltd., BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 639.

Bailey, D.G. (1989): Geological and geophysical report on the Gerim 1 to 7 mineral claims, Quesnel River area, (93NA12, 93GJ1); in Geological Fieldwork 1988, BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 1589.

Bailey, D.G. (1990): Geology of the central Quesnel Belt, British Columbia; BC Ministry of Energy, Mines and Petroleum Resources, Open File 1990-31; 1:100,000 scale map with accompanying notes.

Dolphin, K. (1988): Quesnel canyon placer project; submitted by Freegold Resources Inc., BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 1676.

Durfield, R.M. (1986): Geochemical and geological report on the Mandy project; submitted by Mandala Resources Ltd., BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 1518.

Fox, P.E. (1998): Geological, geochemical and geophysical report on the Gerim 1 to 7 mineral claims, Gerim Creek project; submitted by Paramount Ventures & Finance Inc., BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 2547.

Freder, E. (1974): Geology of the Quesnel River area, British Columbia, as described by Noranda Exploration Company Ltd., BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 4914.

Holstad, J.S. (1960): Ato. 49, in: Annual Report of the BC Minister of Mines and Petroleum Resources for 1967, BC Ministry of Energy, Mines and Petroleum Resources, page 124.

Lay, D. (1935): Cousin Jack, Quesnel Mining Division, northeastern mineral survey district (No. 2); in Annual Report of the BC Minister of Mines for 1934, BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 1518.

Logan, J.M. and Moynihan, P.D. (2009): Geological and Mineral Occurrences of the Quesnel River Map Area (N53 0916E, 120°08E), central British Columbia; in Geological Fieldwork 2008, BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 1589.

Lu, J. (1989): Geology of the Cantin Creek area Quesnel River, (93B18E); in Geological Fieldwork 1988, BC Ministry of Energy, Mines and Petroleum Resources, Report 1782-1, pages 173-181.

Miller-Tait, J. (2004): Diamond drilling report on the Cantin Creek project, submitted by Cross Lake Minerals Ltd., BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 27548.

Orchard, M.J. (2007a): Report on condonats and other microfossils, Quesnel area.

Orchard, M.J. (2007b): Report on Conodont Data File, Report No. M007-2007.

Petersen, N.T. (2003): Provenance of Jurassic sedimentary rocks of Quesnelia: implications for paleogeography; in *Journal of Sedimentary Research*, Volume 73, pages 153.

Petersen, N.T., Smith, P.L., Mortensen, J.K., Cressler, R.A. and Tipper, H.W. (2004): Provenance of Jurassic sedimentary rocks of south-central Quesnelia, British Columbia: implications for paleogeography; *Canadian Journal of Earth Sciences*, Volume 41, pages 109-125.

Rouse, G.E. and Matthews, W.H. (1979): Tertiary geology and palynology of the Quesnel River, British Columbia; *Bulletin of Canadian Petroleum Geology*, Volume 27, pages 418-445.

Schmidt, R. (1994): Stratigraphic and lithological correlation of the Quesnel River area, central British Columbia; *Geological Survey of Canada*, Paper 87-1A, pages 113-116.

Tipper, H.W. (1959): Quesnel map area, British Columbia; *Geological Survey of Canada*, Bulletin 12-1959.

Tipper, H.W. (1978): The geological part of Quesnel (93B) map area, British Columbia; in *Current Research, Part A: Northeast part of Canada*, Paper 78-1A, pages 67-68.

Troup, A.G. and Freeze, J.C. (1985): Geochemical report on the Nyland Lake gold project, Cariboo Mining Division, submitted by Cariboo Resources Ltd., BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 13640.

Turner, J.A. (1983): Geological and geochemical report on the Phantoms 1 claim, Cariboo Mining Division; submitted by Cariboo Resources Ltd., BC Ministry of Energy, Mines and Petroleum Resources, Assessment Report 11458.

	(STATUS)	EAST	NORTH		Energy, Mines and Petroleum Resources, Assessment Report 11458.
Surficial Placers 093B 018	Queensland Canyon (developed prospect)	543330	5871755	Au	Raised bench of Tertiary glacial fluvial deposits consisting of coarse cobble gravels unconformably overlying Nicola Group basement. Test pits and bulk samples have established indicated reserves of 61,785 m3 grading 0.48 g/t Au (Doehlin, 1986).
093B 022	Ainsworth, Sardine Flats, (past producer)	552675	5854326	Au	Most of the gold production from the Queens River has come from dredging operations, but a significant amount of gold has been won from Tertiary benches adjacent to the present river level.
Sediment Hosted Cu 093B 025	Lynda, BJ, Phantom (showing)	556604	5860736	Cu, Ag	Late Triassic Nicola stratigraphic package comprising minor volcanoclastic rocks and basalt, dolomitic limestone and green polyolithic volcanoclastic unit intruded by alkalic trachytic dikes. The limestone is brecciated and mineralized with disseminated pyrite and tetrahedrite malachite and azurite coat weathered surfaces. Stratigraphically lower minor basalt and volcanoclastic rocks contain native Cu filling vesicles and fractures suggestive of red-bed Cu type mineralization.
Au-quartz veins 093B 064	Carlin Creek, Deacon (showing)	555633	5863970	Au	Pyrophyllite, Fe-carbonate and silica alteration of intermediate to mafic pyroclastic pyroclastic flow and clastic volcanic rocks intruded by mafic-ultramafic intrusive complex. Best intersection of 2.64 g/t Au over 1.6 m (Miller-Tait, 2004).
093B 053	Nyland Lake (showing)	566632	5847972	Au	Nicola Group metavolcanoclastic rocks are hornfelsed and skarned adjacent to the contact with granite and diorite of the Queens River pluton. Garnet, epidote, epidote, pyrite and biotite alteration assemblages and dike swarms of pegmatite, apite and quartz characterize the contact zone, which contains anomalous Au values. In addition, anomalous Au values in heavy mineral pan separates are reported from creeks draining the area (Troup and Freese, 1985).
Porphyry Cu, Mo, Au 093B 021	Kate (showing)	542770	5871781	Cu, Mo, Au	Pyroclastic phryic flows, volcanoclastic and tuffaceous argillite-sandstone are intruded by stocks and dikes of Middle Jurassic biotite-feldspar porphyry and quartz porphyry. Pyrite-silica and ankimerite alteration is closely associated with fracture-controlled chalcopyrite mineralization.
093B 057	TARN, AND, ALSO (showing)	558007	5848206	Cu, Mo, Au, Mo	Mineralization consists of Cu, Mo, Ag and Au in silicified, skarned and hornfelsed country rock with the contact aureole of the Queens River diorite. Pyrite > pyrrhotite with minor chalcopyrite, chalcocite and rosettes of molybdenite are disseminated or occupy fractures in both the country rock and the dioritic intrusion.
Polymetallic veins 093B 027	AB, ANO, XL (showing)	558875	5863537	Pb, Ag	The showing is underlain by cherty argillite, siltstone and fine-grained tuffaceous rocks of the Cottonwood River succession adjacent to its contact with volcanic and volcanoclastic rocks of the Western Volcanic Succession. The area is intruded by a small composite diorite to monzonite intrusive complex. Ubiquitous pyrite and minor galena and tetrahedrite were reported (Holland, 1968).
093B 029	COUSIN JACK (showing)	544456	5860764	Pb, Ag, Au	Mineralization consists of galena and pyrite in quartz stringers within an oxidized shear zone cutting sedimentary and volcanic rocks located on the east side of Dragon Mountain. The zone, about 6 m wide and 150 m long, strikes 068 degrees. A grab sample of vein material assayed 1.24 g/t Au, 130.6 g/t Ag and 9% Pb (Lavy, 1933). Location uncertain.
093B 046	MANDY, BLACK BEAR (showing)	562654	5845297	Au, Ag, Cu, Zn	East-trending quartz-ankerite veins up to 1.4 m wide occupy shear cuts cutting Nicola metavolcanic rocks. The main vein, exposed by a 6 m decline, follows a 90 m wide east-trending shear zone and contains 5.1% to 10% pyrite tetrahedrite with chalcopyrite. A 1.5 m chip sample of quartz-ankerite vein yielded 3.3 % Cu, 0.36 Pb, 0.45 % Zn, 43 % Ag and 0.65 g/t Au (Duffield, 1986).
Coal 093B 036	Queensland Coal (developed prospect)	535627	5849079	C	A number of coal zones containing sub-bituminous "B" and "C" rank coal are present in the lower portion of the Fraser River Member of Early Oligocene age.

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