

NOTES
The Anyox pendant underlies a 400 km² region of Paleozoic(?) to Mesozoic volcanic, sedimentary, and plutonic rocks within the Coast Belt.

The eastern half of the pendant and eastern Alice Arm are underlain by folded and homoclinal massive, siliceous, and sandstone turbidites of the Bowser Lake Group.

The Bowser Lake Group is conformably underlain by a unit dominated by pillowed and massive volcanic flows and breccia, with minor siliceous volcanic and/or sedimentary rock.

It is attributable to mylonitic granitoid unit (DJcgm) occupies the east side of the Clashmore complex. Its structure is white weathering, its structure is white weathering, and accommodates a significant amount of horizontal shortening.

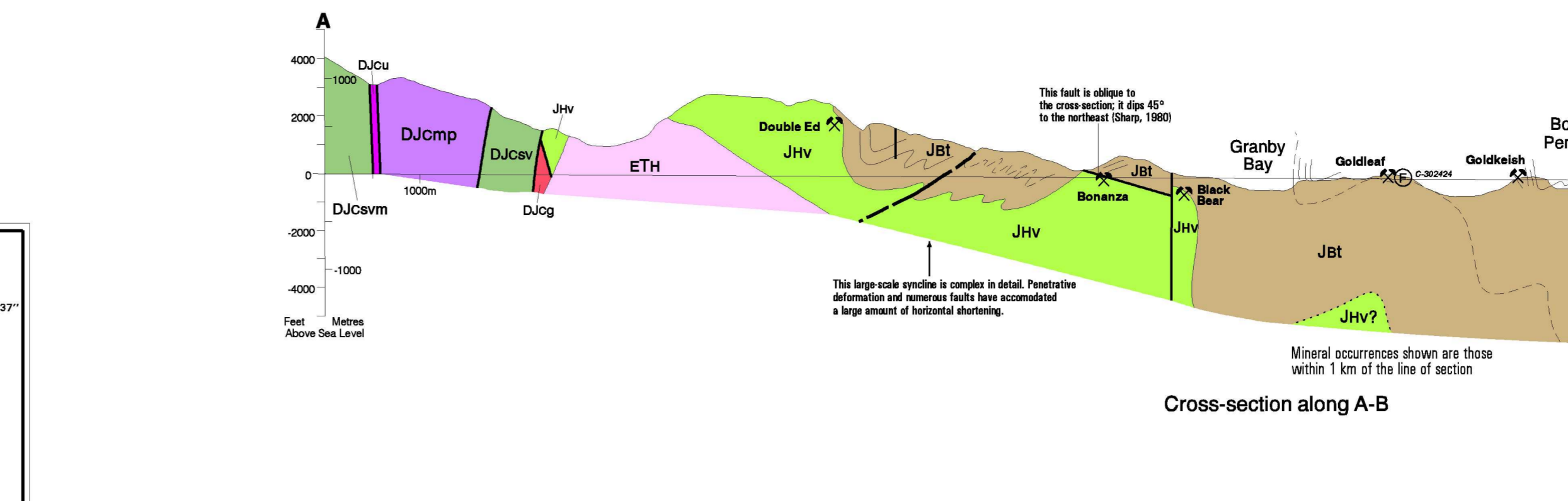
In the central part of the Clashmore complex is a belt of gabbroic or dioritic rocks (DJcgp). They are the core of the pendant and include massive, gabbroic layering, and penetrative mylonitic foliation.

Folds in the Bowser Lake Group are northwest and northeast trending, upright to overthrust (to the east), and gently plunging. They are generally tens to hundreds of metres in wavelength.

Andalusite, biotite, muscovite, and cordierite are common in the more pelitic metasedimentary rocks of the Bowser Lake Group. Strata were probably metamorphosed to greenschist facies prior to intrusion of Tertiary granite.

REFERENCES
Aitcock, D.J., Mawson, Z.M.S., Morrison, J.K., and Chisholm, F. 1996. Mineral deposit studies in the Stewart District (NTS 1030P and 104A). In: Exploration in British Columbia: British Columbia Ministry of Energy, Mines and Petroleum Resources, p. 99-109.

Geology by C.A. Evershick, K. Heim, V. McNeill, D.J. Aitcock and L.D. Snyder. Contacts between Bowser Lake and Hazelton groups modified from Sharp (1989). Contact of Alice Arm intrusion north of Alice Arm is from Carter (1964).



QUATERNARY
PLEISTOCENE AND RECENT
Q.S. Glacial till, alluvium, colluvium; S denotes 60 year old slage heap at mouth of Anyox Creek

TERTIARY
Tv Volcanic breccia and flows, volcanic and granite-pellicule and cobble conglomerates

LARCOM DYKE SWARM
ETL Fine grained eusarcic granitoid dykes with plagioclase and hornblende phenocrysts

Eocene
HYDER PLUTON
ETH Biotite-hornblende granite, quartz monzonite, and granodiorite, includes minor garnet +/- muscovite granite; locally with potassium feldspar megacrysts

ALICE ARM INTRUSIONS
ETA Quartz monzonite porphyry

JURASSIC
UPPER MIDDLE TO UPPER(?) JURASSIC
BOWSER LAKE GROUP
JBt Siliceous, mudstone, fine and medium grained sandstone; minor coarse grained sandstone and fine pebbles conglomerates; breccias; biotite hornfels

Jm Highly sheared metasedimentary and metavolcanic rock; age and correlation uncertain

LOWER(?) TO LOWER MIDDLE JURASSIC
HAZELTON GROUP
JHv Metavolcanic rock: volcanic breccia, pillowed volcanics, massive volcanic flows, including melt-rich; also minor siliceous volcanic and/or sedimentary rock, volcanic tuff

DEVONIAN TO JURASSIC
CLASHMORE COMPLEX
DJcgm Cataclastic to mylonitic biotite granite (ca. 177 Ma); includes tectonic lenses of sheared mafic rock (DJcgm)

DJcgv Highly sheared complex of metasedimentary, metavolcanic and metaplutonic rock; includes biotite-hornblende granite, quartz monzonite, massive orthogneiss, massive orthogneiss, siliceous metabasite and metasedimentary rock, gabbro, conglomerate, mafic intrusive rock; DJcgv is also above, and includes metasediments, Devonian, Devonian, Devonian, and Devonian

DJcu Ultramafic rock: fine facies(?) layering, and common fault breccia; age and correlation uncertain

DJcsm Mafic intrusive rocks; diorite to gabbro; massive to gneissic, and locally mylonitic; age and correlation uncertain

Geological boundary (defined, approximate, assumed, or inferred under Q)

Trace of individual beds from ground observation and airphoto interpretation

Lineament

Fault: unknown displacement (defined, approximate, assumed)

Normal fault, cement on downthrown side (defined, approximate)

Anticline, trace of axial surface (defined or approximate, assumed, overturned)

Syncline, trace of axial surface (defined or approximate, assumed, overturned, vertical)

Bedding (inclined and top known, inclined and top unknown, overturned, vertical)

Foliation (unfaded, transposition, mylonitic, gneissic)

Fault (displacement sense unknown, dextral, sinistral, contractional)

Shear zone (flagging wall up, hanging wall down)

Surface of fold (generation unknown, first generation, second generation, contractional)

Fold axis (generation unknown, 1st fold generation, second generation, contractional)

Lithologies (bituminous, mineral, siliceous strata)

Joints (inclined, vertical)

Dikes (inclined, vertical)

Fossil locality

BC MINFILE occurrence and map reference number. Refer to table below for deposit name, BC MINFILE number, deposit status and commodities

MINERAL OCCURRENCES
MAP NO., NAME, MINFILE NUMBER, UTM EAST, UTM NORTH, STATUS, COMMODITIES

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GEOLOGY
OBSERVATORY INLET
BRITISH COLUMBIA
Scale 1:50 000 - Échelle 1:50 000

Canada logo and map information including coordinates and scale.

Map information including scale, projection, and contact details for the Geological Survey of Canada.

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GEOLOGICAL SURVEY OF CANADA
COMMISSION GÉOLOGIQUE DU CANADA
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