



Geology of the Anyox Mining Camp

NTS 103 P SW, 12W

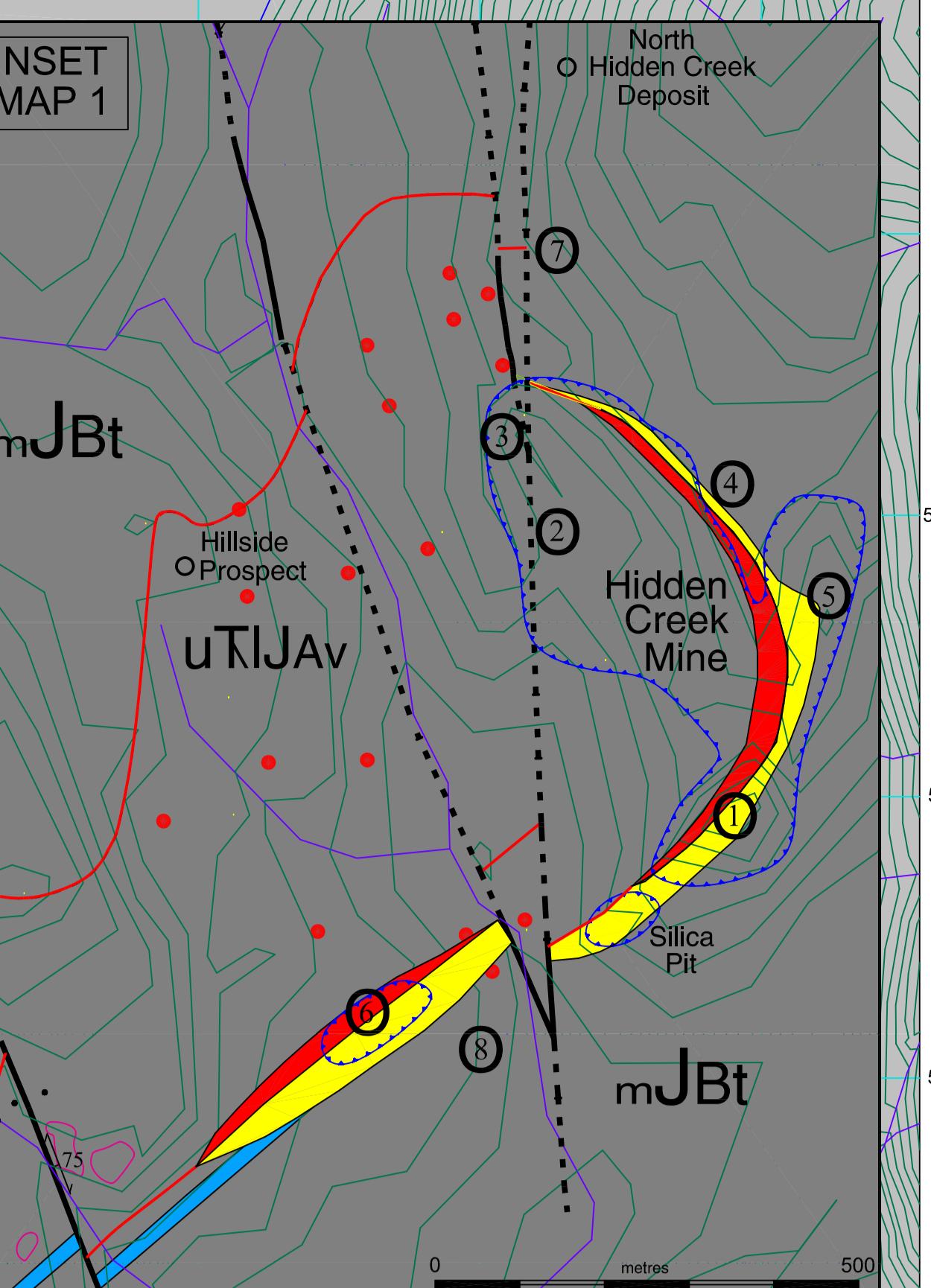
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Scale 1:20 000

Kilometres



LEGEND

LAYERED ROCKS

QUATERNARY

Qal Glacial till, alluvium, colluvium.

TERTIARY

TV Volcanic breccia and flows, volcanic- and granite-pebble to cobble conglomerate

MESOZOIC

MIDDLE TO UPPER JURASSIC

BOWER LAKE GROUP

mJbt Shale (sh), mudstone (md), shale (sh), fine and medium grained sandstone (frd, msd) with rare ripple marks (rm), graded beds (gr) and cross-beds (cb). Minor coarse grained sandstone (csd), wacke (wk) and fine pebble conglomerate (cp). Local calcite-cemented pyritic and pyritic dolomite (pd). Sandy limestone (slst) and limy concretions (lc). One fossil site (f). Blotched hornfels (bh) developed adjacent to intrusions.

UPPER TRIASSIC TO LOWER JURASSIC

HAZELTON GROUP

ANYOX FORMATION

uTijAv Pillow basalts (p), pillow breccias (pbx), massive basalts (mb), thin bedded basalts (tb), interbedded basalts (ib), chert-schist (cs) and biotite schist (bs). Minor sedimentary (sd), stromatolitic (st), mudstone (msd) and chert (ch). Minor sills of fine to coarse grained diorite (gd), gabbro (gb) and pyroxenite (px). Thin mafic dikes (bd). See also uTijAv in Clashmore Complex.

INTRUSIVE ROCKS

TERTIARY

EOCENE

COAST PLUTONIC COMPLEX

HYDER DIKES

Ehd Dikes: Granodiorite (gdd), diorite (drd), felsite (fd), porphyritic syenite (fsy), pyroxene-felspar porphyry (pxp), lamprophyre (lpd), Aphyric andesite (ad) and basalt (bd). Flow-banded (fb).

LARCOM DIKE SWARM

Eld Fine to medium grained, equigranular (grd) to felDSP porphyritic (fpd) granodiorite dikes. Also felsite (fd) and lamprophyre (lpd).

HYDER PLUTON

EH Medium grained biotite +/- hornblende quartz monzonite, granodiorite and granite. Local potassian pegmatites.

MOLY MAY STOCK

EMM Garnet +/- muscovite granite. **EMMq** quartz stockwork.

MIDDLE JURASSIC

See mJbt in Clashmore Metamorphic Complex.

LATE DEVONIAN

See bdt in Clashmore Metamorphic Complex.

METAMORPHIC ROCKS

DEVONIAN TO JURASSIC

EARLY TO MIDDLE JURASSIC

CLASHMORE METAMORPHIC COMPLEX

MJcg Brecciated granite (grb) to granodiorite (gdb). Regional contacts. Cracks filled with open space metasomatic minerals. Biotite underlay (ca. 177 Ma) (Aldrick et al., 1997). Includes lenses of mafic metavolcanic rock (uTijCvs) and lenses of volcanic breccia, sedimentary rocks (e.g., gabro (gb) and felsic plutonic rock; age and orientation unknown).

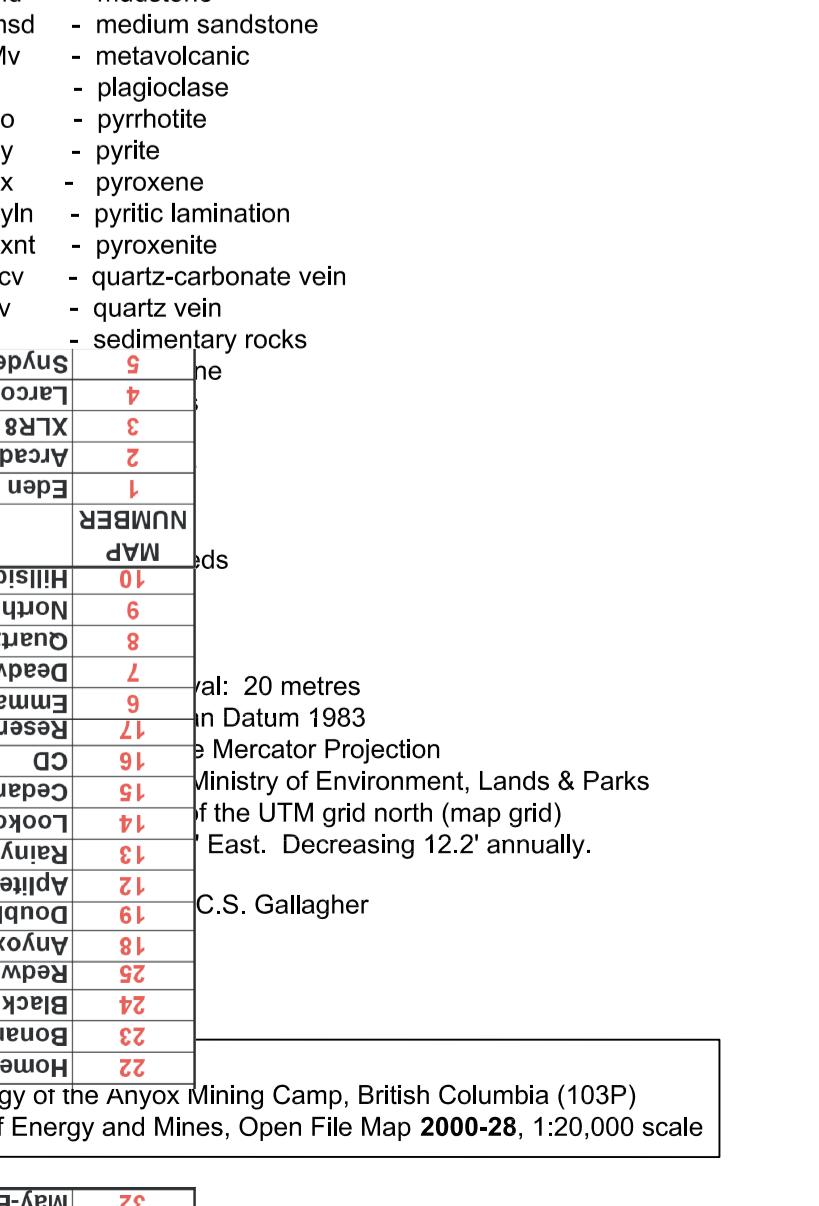
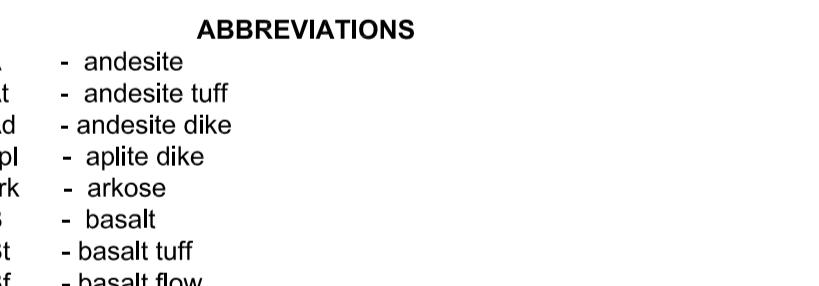
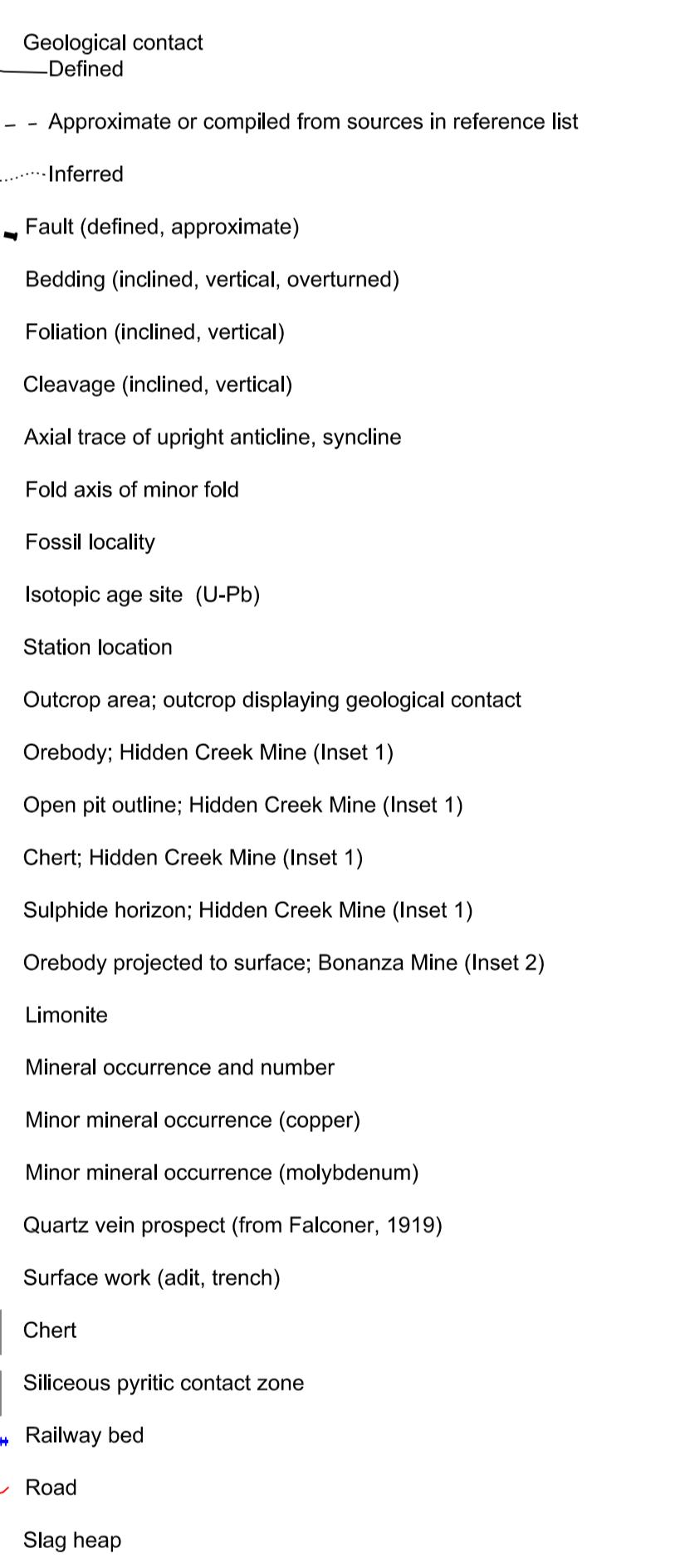
uTijCvs Extensive complex of metabreccia, metadolomitic and metasilicic rocks. Age uncertain, may be coeval with Anyox Formation. Metacarbonate (mb) pillow basalt (bp), pillow breccia (pbx), volcanic breccia (vbx), chert-schist (cs), sandstone (sd), dolomite (msd), grit (mg), conglomerate (mcg) and mafic intrusive rocks (mtr). Marble crops out west of map area.

DEVONIAN

CLASHMORE METAMORPHIC COMPLEX

Dcu Ultramafic rock (talc). Fine rhythmic lamellations (ectoritic); commonly brecciated. Protolith is likely Devonian; age of deformation uncertain.

Dcm Mafic intrusive rocks. Diorite (dr) to gabbro (gb). Massive to gneissic (gn); locally mylonitic. U-Pb age 394 ± 4 Ma (Macdonald et al., 1996).



REFERENCES

- Affleck, J. (1982) Geology of the Moly May Stock, Enfield Resources Inc., Unpublished geological map, 1:50,000.
- Aldrick, D.J., Evenchick, C.A.S., McNeil, J.K., and Chidley, F. (1996) Mineral Deposit Studies in the South Coast-Diabase in Exploration in British Columbia 1995, Part B.C. Ministry of Employment and Investment, p. 68-109.
- Evenchick, C.A., McNeill, V.J., Holm, K., Aldrick, D.J., and Snyder, L.D. (1997) Geology, Anyox and surrounding areas, Observatory Inlet (103P), and parts of Hastings Arm (103P12 and 103O9) map areas, British Columbia, Geological Survey of Canada Open File 2443.
- Falconer, F.S. (1919) Geology of Anyox area, Canada Department of Mines, Topographic map, 1:120,000 scale.
- Grove, E.W. (1988) Geology and Mineral Deposits of the Unak River-Salmon River-Anyox Area: British Columbia Ministry of Energy, Mines and Petroleum Resources, Bulletin 63, 152 p.
- Hall, T. (1984) Larcom Island Geology: Colony Pacific Explorations Ltd., Unpublished geological map, scale 1:10,000.
- Ryan, B. and Lindberg, P. (1967) Geology of the Bonanza Creek area, Anaconda Ltd., Unpublished geological map, scale 1:12,500.
- MacDonald, R.W.J., Barnett, T.J., and Sherlock, R.L. (1990) Geology and Lithogeochemistry of the Hidden Creek Deposit, Anyox, West-Central British Columbia; Exploration Mining Geology, v. 5, p. 311-314.
- Rodgers, D. (1987) Anyox Geology: Cominco Exploration Ltd., Unpublished geological map, scale 1:12,500.
- Wares, R. (1988) Geological Report on the Goldkeel Claim Group; B.C. Ministry of Energy and Mines, Assessment Report No. 18127, 15 p.

Mineral Occurrences

