GEOLOGICAL SURVEY AND DEVELOPMENT BRANCH

BRITISH COLUMBIA
Ministry of Energy and Mines
Mining and Minerals Division
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BEDROCK GEOLOGY AND LODE GOLD OCCURRENCES, CARIBOO LAKE TO WELLS, BRITISH COLUMBIA

PARTS OF NTS 93 A/13, 14; 93 H/3, 4

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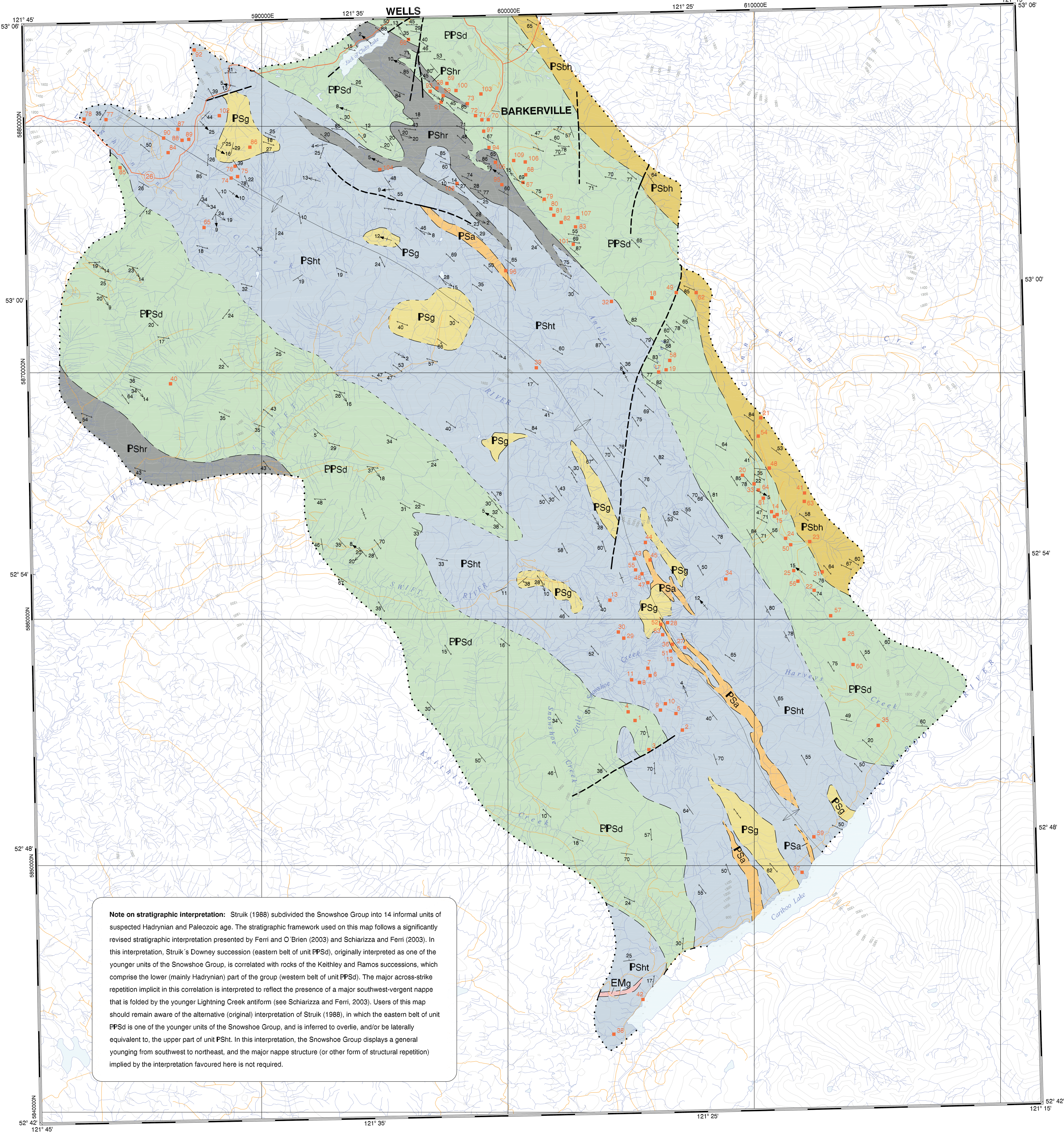
SCALE 1:100 000

0 2 4 6 8 10 Kilometres



Note on stratigraphic interpretation: Struik (1988) subdivided the Snowshoe Group into 14 informal units of suspected Hadrynian and Paleozoic age. The stratigraphic framework used on this map follows a significantly revised stratigraphic interpretation presented by Ferri and O'Brien (2003) and Schiarizza and Ferri (2003). In this interpretation, Struik's Downey succession (eastern belt of unit PPSd), originally interpreted as one of the younger units of the Snowshoe Group, is correlated with rocks of the Keithley and Ramos successions, which comprise the lower (mainly Hadrynian) part of the group (western belt of unit PPSd). The major across-strike repetition implicit in this correlation is interpreted to reflect the presence of a major southwest-vergent nappe that is folded by the younger Lightning Creek antiform (see Schiarizza and Ferri, 2003). Users of this map should remain aware of the alternative (original) interpretation of Struik (1988), in which the eastern belt of unit PPSd is one of the younger units of the Snowshoe Group, and is inferred to overlie, and/or be laterally equivalent to, the upper part of unit PSht. In this interpretation, the Snowshoe Group displays a general younging from southwest to northeast, and the major nappe structure (or other form of structural repetition) implied by the interpretation favoured here is not required.

MINERAL OCCURRENCES

Map Ref	MINFILE No.	Name	Map	Commodities	Description	Reference
1	093A 021	Corban	93A.083	Au, Ag	quartz veins; py, lim, ank, nAu	Holland (1954, p. 87)
2	093A 022	Homestake	93A.083	Au	quartz vein; py	Holland (1954, p. 63)
3	093A 023	Sockett	93A.083	Au	quartz stringers in silicified quartzite; py, ga, sph	Holland (1954, p. 85)
4	093A 028	Talbot	93A.083	Au	quartz veins; py	Holland (1954, p. 88)
5	093A 029	Amparo	93A.083	W, Pb	quartz vein; ga, sch	Holland (1954, p. 64)
6	093A 030	Jane	93A.083	Au, Ag	quartz veins; py, ank, lim, ga, nAu	Holland (1954, p. 78)
7	093A 031	Bertha	93A.083	Au	quartz vein; py, lim	Holland (1954, p. 83)
8	093A 032	Betty	93A.083	Au, Ag	quartz vein; py	Holland (1954, p. 83)
9	093A 033	Saddle	93A.083	Au, Ag	quartz vein; py, ga	Holland (1954, p. 69)
10	093A 035	Midas	93A.083	Au, Ag	quartz veins; py, ga, sph, ank, nAu	Holland (1954, p. 68)
11	093A 036	Boulder Ledge	93A.083	Pb	quartz vein; ga	Bowman (1889, p. 45c; 1895)
12	093A 037	Jim	93A.083	Au, Ag	quartz veins; py, ga, ank	Holland (1954, p. 66)
13	093A 038	Holmes Ledge	93A.083	W, Au, Ag, Pb	quartz veins; py, ga, sch; po, sph	Holland (1954, p. 63)
14	093A 051	Hibernian	93A.094	Au, Ag, Pb, Zn	quartz veins; py, ga, sph, tet, ank, asp	Termuende (1990)
15	093A 051	Jewellery Shop	93A.094	Au, Ag, Pb	quartz veins; py, asp, ga	Termuende (1990)
16	093A 051	B-zone	93A.094	Au	quartz veins; py, asp, nAu	Termuende (1990)
17	093A 052	Gisco, Pitt I, Cariboo Canyon, Pittman	93A.093	Au, Ag, Pb, Zn	quartz veins; limestone replacement; py, ga, sph, cpy, nAu	Sutherland Brown (1957, p. 80)
18	093A 054	Spitfire	93A.093	Au	quartz veins; py	Holland (1947)
19	093A 055	Zone	93A.093	Au	quartz and calc-silica veins; py, asp, ga	Holland (1948b); Kocsis (1996)
20	093A 060	Bon	93A.094	Pb, Zn, Ag, Au	quartz veins; ga, sph	Durfeld (1985)
21	093A 070	Vic	93A.094	Pb, Zn, Ag, Ba	ga, sph in conformable siliceous lens; separate lens of siliceous barite	Longe et al. (1977)
22	093A 071	Cariboo Hudson	93A.084	Au, Ag, Pb, W	quartz veins; py, ga, ank, sch, po, sph	Holland (1954, p. 57)
23	093A 090	Skarn	93A.094	W, Ag, Pb, Zn, Cu, Au	quartz veins; py, sch, ga, sph, tet, mal, az, bn, fl, ank	Holland (1954, p. 77); Termuende (1990)
24	093A 091	Cariboo Thompson	93A.094	Au, Ag, W	quartz veins; py, asp, ga, sch, sph, sid	Holland (1954, p. 76); Lang (1938, p. 24)
25	093A 093	Peter Gulch	93A.084	W, Ag, Pb, Zn, Au	quartz veins, lenses; replacement lenses in limestone; ank, py, po, sch, ga, sph	Lang (1938, p. 30); Stevenson (1943, p. 93); Allen (1977); Longe (1977)
26	093A 095	International	93A.084	Au, Pb, Zn	quartz veins; py, ga, sph, asp	Holland (1954, p. 64)
27	093A 099	Plateau d'Or	93A.083	Ag, Au, Pb	quartz veins; ga, py sph	Lang (1938, p. 35); Holland (1954, p. 75)
28	093A 100	Cornish Ledges	93A.083	Ag, Pb, Au	quartz veins; ga, py	Holland (1954, p. 60)
29	093A 101	Hebson Vein	93A.083	Au	quartz vein; py	Holland (1954, p. 62)
30	093A 102	Taylor Tungsten	93A.083	W, Pb, Ag	quarz veins, lenses; sch, ga, py, sph	Holland (1954, p. 86); Stevenson (1943, p. 98)
31	093A 103	Bralco	93A.084		replacement zone in limestone; quartz veins; sph, py, ga, (cpy)	Lang (1938, p. 26); Hodgson (1978)
32	093A 104	Antler Mountain	93A.093	Au, Pb, Zn	quartz veins; py, ga, asp, sph	Lang (1938, p. 22)
33	093A 106	A Zone	93A.094	Pb, Zn, Ag, Au,W	ga, sph, py; stratabound in carbonate units, and in quartz veins	Hodgson (1978)
34	093A 108	Cariboo Nordine	93A.084	Pb, Au	quartz veins; py, ga	Lang (1938, p. 32)
35	093A 111	Sylvain/Langis	93A.084	Au	pyritic replacement in limestone	Lang (1938, p. 43)
36	093A 126	Crystal	93A.083	Au, Ag, Pb, Zn	quartz veins; ga, py, sph	Holland (1954, p. 86)
37	093A 128	Gold Recoveries Ltd.	93A.074	Pb	quartz veins; py, ga	Lang (1938, p. 41)
38	093A 133	Peacock	93A.073	Ag, Pb	quartz veins; ga, py, sph	Lay (1927, p. A178); Bowman (1889, p. 46c)
39	093A 140	Mt. Burdett	93A.093	Si	quartz veins	Foye (1987, p. 30)
40	093A 153	Galleon	93A.092	Au, Ag, Pb	quartz veins; py, ga, cpy	Ostensoe (1985)
41	093A 158	Cunningham Ck Barite	93A.094	Ba	stratiform barite	Hodgson (1978)
42	093A 163	Unlikely	93A.073	Cu	semi-massive sulphide lenses; py, po, asp, cpy	Ferri and O'Brien (2002, p. 77)
43	093A 165	Aster AST-2-91	93A.093	Au, Ag, Pb	quartz vein; ga, py	Christopher (1992)
44	093A 166	Aster A-Y-5	93A.093	Pb, Ag	quartz vein; ga	Christopher (1992)
45	093A 167	Aster K0451	93A.093	Pb, Ag	quartz vein; ga	Christopher (1988)
46	093A 168	Aster K0452	93A.083	Au, Ag, Pb	quartz veins; py, ga, sph	Christopher (1988)
47	093A 169	Aster T122	93A.083	Au, Ag	quartz vein	Christopher (1992)
48	093A 170	Ben	93A.094	Pb, Ag, Cu, Zn	tet, ga, asp in quartz veins; sph in shaly limestone	Mitchell (1970); Hodgson (1978)
49	093A 171	China Creek	93A.093	Pb	massive sulphide pods in fault zone; ga	Troup (1994)
50	093A 172	Copper Creek	93A.094	Au, Ag, W, Pb	quartz veins; py, sch, ga	Lang (1938, p. 25)
51	093A 173	DS 327	93A.083	Au, Ag, Pb	quartz lens; py, ga	Safton (1984)
52	093A 174	DS 335	93A.083	Pb, Ag	quartz lens; py, ga	Safton (1984)
53	093A 175	DS 336	93A.083	Pb, Ag	quartz lenses; ga, py, asp	Safton (1984)
54	093A 176	Evening	93A.094	Zn, Pb, Ag	conformable sulphide horizon in cherty shales; sph, ga	Longe et al. (1977)
55	093A 177	Fat Vein	93A.083	Au, Ag, Pb	quartz veins; py, ga	Christopher (1988)
56	093A 178	Moneta	93A.084	Pb	ga, py, sph in argillite and limestone	Delancey (1988)
57	093A 179	North Simlock	93A.084	Au	quartz veins; sid, py, ga	Bruland and Sykes (1988)
58	093A 180	Nugget	93A.093	Pb	quartz vein; lim, ga	Kocsis (1996)
59	093A 181	Pine	93A.074	Pb	quartz vein; ga, py	Debicki (1983)
60	093A 182	Simlock Creek	93A.084	Au, Ag	py, ga in quartz-carbonate veins and as disseminations	Ostler (1989)
61	093A 183	Switchback	93A.094	Au, Ag, Pb	quartz veins; py, ga	Termuende (1990)
62	093A 184	Toby	93A.093	Pb	quartz vein; py, ga	Troup (1994)
63	093A 185	X-14	93A.094	Zn, Pb	sph, ga; disseminated in limestone	Longe et al. (1977)
64	093A 186	1500 and 1650 trenches	93A.094	Au, Ag	quartz veins; py, ga	Termuende (1990)
65	093H 003	Van Winkle	93H.002	Cu	quartz veins; po, cpy	Holland (1948, p. 57)
66	093H 019	Cariboo Gold Quartz	93H.003	Au, Ag	quartz veins; local replacement bodies; py, cos, ga, sch, nAu, sph, po, carb	Skerl (1948b); Sutherland Brown (1957, p. 74)
67	093H 021	Proserpine	93H.003	Au, Ag, Pb	quartz veins; ga, py sph	Johnston and Uglow (1926, p. 196)
68	093H 021	Proserpine 2	93H.003	Au, Ag, Pb	quzrtz veins; ga, py	Johnston and Uglow (1926, p. 196)
69	093H 025	Myrtle	93H.003	Au, Ag	quartz veins; py, ga, nAu	Hanson (1935, p. 26)
70	093H 027	Black Jack	93H.003	Au	quartz veins; sid, ga, py	Johnston and Uglow (1926, p. 193)
71	093H 027	Westport	93H.003	Au	quartz veins; py	Skerl (1948a)
72	093H 027	Wintrip	93H.003	Au	quartz veins	Skerl (1948a)
73	093H 034	Morning Star	93H.003	Au	quartz veins; py, ga	Hanson (1935, p. 27); Skerl (1948a)
74	093H 037	Perkins veins	93H.002	Au, Ag, Pb	quartz veins; py, ga	Holland (1948, p. 43)
75	093H 037	Galena vein	93H.002	Au, Ag, Pb	quartz vein; ank, py, ga	Holland (1948, p. 43)
76	093H 037	Cohen Incline veins	93H.002	Au, Ag, Pb	quartz veins; ank, py, ga	Holland (1948, p. 43)
77	093H 047	Jawbone Gold Quartz	93H.002	Pb	quartz vein; py, ga	Hanson (1934, p. 40A)
78	093H 047	Tiger Gold Quartz	93H.002	Pb	quartz vein; py, ga	Hanson (1934, p. 40A)
79	093H 048	Warspite	93H.003	Au, Ag	quartz veins; silicified quartzite; py, ga, asp, sph	Campbell (1987); Johnston and Uglow (1926, p. 201)
80	093H 049	Tipperary	93H.003	Au, Ag	quartz veins; py, ga	Galloway (1919, p. K134)
81	093H 050	Kitchener	93H.003	Au, Ag, Pb	quartz veins; py, sid, ga, sph	Johnston and Uglow (1926, p. 202); Campbell (1987)
82	093H 051	Independence	93H.003	Au, Ag, Pb	quartz veins; py, ga, asp	Johnston and Uglow (1926, p. 202); Galloway (1919, p. K133)
83	093H 052	Hard Cash	93H.003	Au	quartz veins; py, ga, sph	Hanson (1935, p. 33)
84	093H 054	Acme	93H.002	Au, Ag, Pb, Zn	quartz veins; py, ga, sph	Holland (1948, p. 55)
85	093H 055	Dominion	93H.002	Au, Ag	quartz veins; py	Holland (1948, p. 56)
86	093H 056	Standard Location	93H.002	Au, Ag, Pb	quartz veins; py ga	Holland (1948, p. 49); Bowman (1889, p. 38c; 1895)
87	093H 057	Foster Ledge upper adit	93H.002	Au, Ag, Pb, Zn	quartz veins; py, ga, sph	Holland (1948, p. 50); Lay (1935, p. C27)
88	093H 057	Foster Ledge lower adit	93H.002	Au	quartz veins	Holland (1948, p. 50); Lay (1935, p. C27)
89	093H 057	Foster Ledge eastern adit	93H.002	Au	quartz veins	Holland (1948, p. 50); Lay (1935, p. C27)
90	093H 057	Foster Ledge galena vein	93H.002	Pb, Ag	quartz vein; ga	Holland (1948, p. 50)
91	093H 058	Canusa	93H.003	Au, Ag	quartz veins; py, ga, cos, sph, nAu	Holland (1949)
92	093H 059	Nelson Creek	93H.002	Pb, Zn	quartz vein; py, ga, sph	Holland (1948, p. 57)
93	093H 078	Black Bull	93H.003	Au	quartz vein; py	Sutherland Brown (1957, p. 73)
94	093H 079	Steadman	93H.003	Au	quartz veins; py, ga, sph	Johnston and Uglow (1926, p. 207)
95	093H 080	Pani	93H.003	Ag, Pb, Zn, Au	quartz vein; ga, py, sph	Lay (1932, p. 62)
96	093H 137	Bald	93H.003	Ag, Au	quartz veins; ga, py	Davies and Green (1996)
97	093H 138	Bill	93H.003	Pb, Zn, Ag	quartz vein; py, ga, sph	this study
98	093H 139	B.C. vein	93H.003	Au, Ag	quartz vein; py, ga, sph	Sutherland Brown (1957, p. 74)
99	093H 140	Bonanza Ledge	93H.003	Au	pyritic replacement bodies and folded veins; py, ga, cpy, sph, po, nAu	Rhys and Ross (2001)
100	093H 141	Cariboo/Marie/ Martha	93H.003	Au, Ag	quartz veins; py, ga	Hanson (1935, p. 26)
101	093H 142	Dufferin	93H.003	Au, Ag	quartz vein; py, ga	Kocsis (2001); Bowman (1889, p. 42c; 1895)
102	093H 143	GR 17	93H.002	Au	quartz vein; py	Olfert (1984); Holland (1948, p. 57)
103	093H 144	Home Rule	93H.003	Au, Ag	quartz veins; ga, py, sph, lim	Bowman (1889, p. 32c; 1895); Hanson (1935, p. 28)
104	093H 145	Jack	93H.003	Ag, Pb	quartz vein; ga, py	this study
105	093H 146	King	93H.003	Au, Ag, Pb	quartz veins; ga, py	Nordin (1983)
106	093H 147	Pin Money	93H.003	Au, Ag, Pb	quartz veins; ga, py	Nordin (1983)
107	093H 148	Placer Pit South	93H.003	Au, Ag, Pb	quartz stockwork; ga, lim	Scott (2001)
108	093H 149	Sergeant Lindsay Ledge	93H.003	Ag	quartz vein; py, lim	Bowman (1889, p. 33c; 1895)
109	093H 150	Victory	93H.003	Au, Ag	quartz veins; py, asp, ga	Johnston and Uglow (1926, p. 196)

Abbreviations: ank-ankerite; asp-arsenopyrite; az-azurite; bn-bornite; carb-carbonate; cos-cosalite; cpy-chalcopyrite; fl-fluorite; ga-galena; lim-limonite; mal-malachite; nAu-native gold; po-pyrrhotite; py-pyrite; sch-scheelite; sid-siderite; sph-sphalerite; tet-tetrahedrite

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LEGEND

INTRUSIVE ROCKS

Early Mississippian

EMg — Foliated muscovite-biotite granite or granodiorite

METASEDIMENTARY ROCKS

Proterozoic and/or Paleozoic
Snowshoe Group
Paleozoic?

PSbh — Black to dark grey phyllite and siltite; light to dark grey limestone and marble; locally includes medium to dark grey phyllitic quartzite and light grey or green phyllite. May be largely equivalent to unit PShr, or may be younger; southeastern exposures may include rocks equivalent to unit PPSd. Includes Bralco and Hardscrabble Mountain successions of Struik (1988).

PSg — Light grey, variably micaceous, massive to thick-bedded feldspathic quartzite and grit; includes interbeds of light grey-green or dark grey phyllite and siltite; locally includes quartzite-clast conglomerate. Mainly Goose Peak succession of Struik (1988), but includes equivalent(?) rocks within Struik's Eaglesnest succession.

PSa — Light to medium grey, granule to boulder quartzite-clast conglomerate; locally includes grey quartzite, light to dark grey phyllite, and calcareous conglomerate. Occurs internally within unit PSht. Equivalent to Agnes succession of Struik (1988).

PSht — Medium to dark grey and black phyllite, siltite, quartzite and grit; locally includes green phyllite, light grey quartzite and grit, conglomerate, medium to dark grey limestone, and medium to dark green chloritic schist derived from mafic volcanic rocks. Includes Harveys Ridge sucession and parts of Eaglesnest succession of Struik (1988), and transitional Harveys Ridge of Ferri and O'Brien (2003).

PShr — Black to dark grey siltite and phyllite. Interfingers with the lower part of unit PSht. Includes rocks mapped as Harveys Ridge and Hardscrabble Mountain successions by Struik (1988).

Late Proterozoic and/or Paleozoic?

PPSd — Light to medium green and grey-green phyllite, siltite and variably phyllitic quartzite and grit; light to medium grey limestone that commonly weathers orange, brown, or dark-grey; medium to dark green chloritic schist derived from mafic volcanic, volcaniclastic and intrusive rocks; locally includes light to dark grey quartzite and grit, dark grey to black phyllite, grey to green calcareous quartzite, and conglomerate. Includes an eastern belt mapped as Downey succession by Struik (1988) and a western belt correlated with the Downey succession by Ferri and O'Brien (2003) and Schiarizza and Ferri (2003) but mapped as Ramos and Keithley successions by Struik (1988).

SYMBOLS

Geological contact (defined, approximate, inferred)
Fault (inferred)
Bedding; tops known (inclined, overturned)
Bedding; tops unknown (inclined, vertical)
Phyllitic cleavage or schistosity (inclined, vertical)
Crenulation cleavage (inclined, vertical)
Stretching or mineral lineation
Crenulation lineation
Axis of mesoscopic fold (early, late)
Lode mineral occurrence with reference number (see Table)
Axial trace of late upright antiform
Topographic contour (100m interval)
River
Road (highway, gravel)
Map limit
Lake

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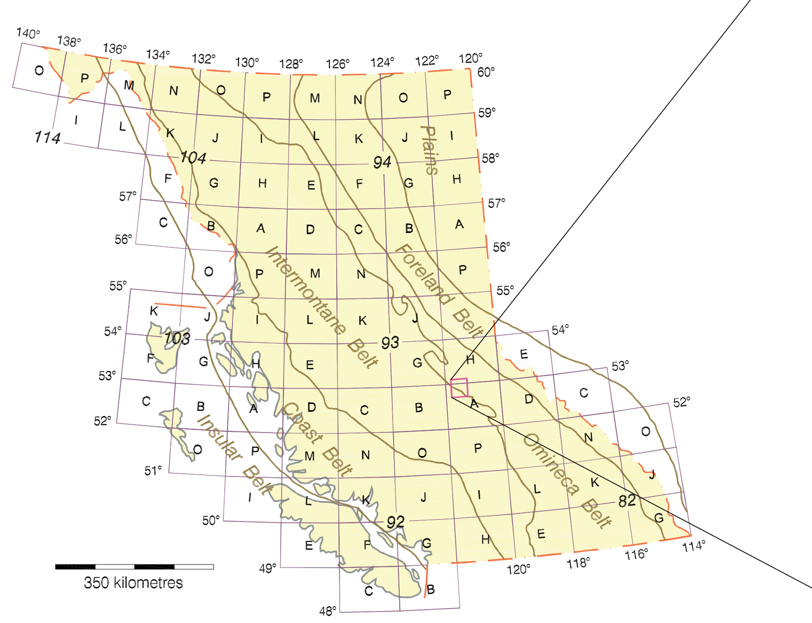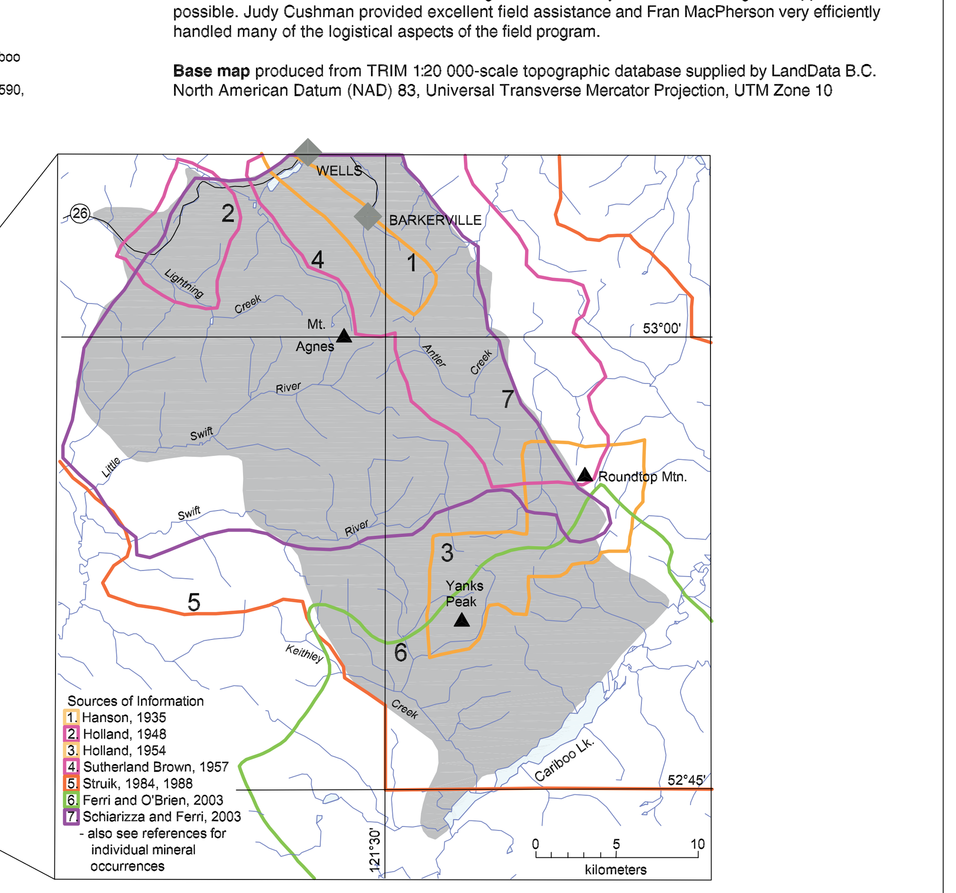
Base map produced from TRIM 1:20 000-scale topographic database supplied by LandData B.C. North American Datum (NAD) 83, Universal Transverse Mercator Projection, UTM Zone 10