

TECTONIC SETTING

This map is one of a set of two 1:250 000 scale maps and an accompanying sheet of cross-sections that describes the geological framework of some 22 975 km² of east-central Yukon (see inset and index maps). A more detailed map of part of the area (central 105-K) is published separately at 1:100 000 scale (Map 2150A).

Much of Sheldon Lake and Tay River areas (NTS 105-J, 105-K) northeast of Timina Fault is underlain by uppermost Proterozoic and Lower Paleozoic basinal strata (Selwyn Basin) that formed in a r-estaurant within shallow-water carbonate and clastic strata (Macmillan Platform) along the outer margin of ancestral North America. The oldest exposed strata consist of latest Proterozoic to Cambrian turbiditic quartzite sandstone (unit PY) and maroon slate (unit PCH) (more than 2500 m thick) succeeded by local Cambrian shale (unit CO) (up to 700 m) capped by a widespread Cambro-Ordovician basinal limestone and siltstone (unit COR) (300 m). A staved sequence of shale, chert, and siltstone (unit OSR) lowermost unit D(45) with local volcanic rocks (unit OM) was deposited during the Ordovician to Middle Devonian. Regional sub-Upper Cambrian (unit COH) and other local unconformities suggest intermittent extension and syndepositional faulting. In the Silurian and Devonian the basin was flanked on the southwest by carbonate and clastic units of McCreary Platform (units SDC and Ssp) (300+ m). Large stratiform zinc-lead deposits are known in Early Cambrian (Faro) and Early Silurian (Howards Pass, to east of area) strata.

In the Late Devonian, turbiditic quartz-chert sandstone, and chert-pebble conglomerate were deposited in submarine fan complexes as shale deposition transgressed far northeastward onto the ancestral margin (units DME, MC, DMP and DP). The coarse clastic units, perhaps 1200 m in aggregate thickness, were derived from elevated fault blocks of Selwyn Basin strata to the north and west, including latest Proterozoic gritty quartzite clastic rocks and Ordovician-Silurian chert. An extensional or transtensional event is indicated by an absence of compressional deformation, local felsic volcanism (unit MV), and widespread stratiform baffle (a lead-zinc) occurrences (e.g. Tom, Jason to east of area). A regional unconformity occurs beneath upper Upper Devonian strata (unit DMP).

Succeeding Lower Mississippian and Triassic carbonate and siliciclastic sedimentary rocks separated by Carboniferous to Permian chert and shale (units MT, CPMC, and TJ) (total 1700 m) were likely deposited on a silt to muddy, at times eutric, shallow-marine shelf. A regional unconformity occurs beneath Middle to Upper Triassic (unit TJ), and possibly beneath Upper Mississippian strata (unit CPMC).

Rare Lower Cretaceous chert-bearing clastic rocks (unit KBT) (more than 120 m), the first signal of Jura-Cretaceous orogenic uplift to the west, disconformably overlies Upper Triassic strata. Ancestral margin strata southwest of Timina Fault comprise two distinct successions separated by the northwest-trending St. Cyr Fault. On the southwest, the Pelly Mountains assemblage (3500 m)

consists of relatively deep-water, late Proterozoic to Silurian fine clastic and carbonate strata (units Pcp, COsl, and OSI) succeeded by shallow-water, Siluro-Devonian carbonate and clastic rocks (units Set and SDCq; Cassiar Platform). In turn overlain by Devonian-Mississippian shale and chert-bearing sandstone (unit DME). The Devonian-Mississippian strata are analogous in tectonic affinity to the Earm Group (unit DME) northeast of Timina Fault. To the south of Tay River map area the succession includes felsic volcanic rocks that host volcanogenic massive-sulphide occurrences (e.g. Wolf). Unconformities occur at the base of the Lower Silurian (unit Set) and upper Upper Devonian (unit DME). In the narrow belt between St. Cyr and Timina faults, the St. Cyr assemblage (more than 1600 m) differs from the Pelly Mountains assemblage in the lack of Paleozoic shallow-water clastic or carbonate strata, as well as in the presence of a unique and enigmatic unit of Late Devonian limestone-phylite (unit DMSq). Cambro-Ordovician to Devonian strata consist chiefly of fine-grained pelitic (unit OSl) and carbonate (unit COc) rocks of probable deep-water origin. Scattered remnants of Carboniferous to Triassic strata include chert (unit Mt), siltstone, carbonate, and shale (units DMS, Csl, and Usl) that resemble equivalent strata in adjacent regions southwest of St. Cyr Fault.

In the Early Cretaceous, northeast-southwest compression led to northwest-trending, regional-scale folds, and extensive, shallow-dipping thrust faults. Incompetent Ordovician to Devonian shale and chert are complexly deformed above a regional, flat-lying, buried detachment (see cross-sections, sheet 3). Shortening in Cambro-Ordovician to Devonian strata is at least 50%, indicating that the paleogeographic width of the Selwyn Basin was twice as much as is currently represented. Folds and faults ultimately root in a basal detachment that extends beneath the region and across the entire deformed belt. Upper Paleozoic oceanic rocks of the Slide Mountain terrane (unit CPs), and metasedimentary rocks of the Yukon-Tanana terrane (unit CTY), were emplaced as thrust sheets during this deformation. Deformation is bracketed as younger than affected Early Cretaceous strata (unit KBT), and older than intrusion of the mid-Cretaceous Selwyn Plutonic Suite (unit KSP) and eruption of dacitic pyroclastic rocks of the coeval South Fork volcanics (unit KSP). The plutons are regionally associated with tungsten-copper skarn (e.g. MacLing) and base-metal vein occurrences. The volcanic rocks are notably barren.

Cretaceous-Tertiary dextral slip along Timina fault zone, which transects the southwest part of the area, amounted to at least 430 km. Pull-apart basins along the fault zone accumulated fluvial clastic rocks (unit Ts) and bimodal volcanic rocks (unit Tv) that host epithermal precious-metal veins (e.g. Grew Creek).

ACKNOWLEDGMENTS

Excellent field assistance was provided by T. Frakes (1982), D. Thorkelson (1983), B. Thomas (1986), S. Garneau (1988), S. Irwin (1990), and D. Ryba (1987). During 1988 and 1989, a base camp was shared in Ross River with L. Jackson of the Geological Survey, who was mapping surficial geology in Tay River map area. B. Hensley and C. Hensley, proprietors of the Ross River Service Centre, are commended for excellent expediting. Helicopters piloted by J. Whitman (Tri-North Turbo Air), skilfully performed many difficult landings that were required in parts of the region. His knowledge of the terrain and of local history were invaluable. Northern Mountain Helicopters provided efficient charter service from Macmillan Pass in 1982, and D. Penruil gave excellent fixed-wing service from Ross River in 1987. J. Morin, then Chief Geologist, Whitehorse office of Indian and Northern Affairs Canada, encouraged the project, and kindly made available office, mail, and warehouse facilities in Whitehorse. The mapping benefited greatly from friendly and open discussion on the geology of the Anvil Range, its deposits and environs with L. Pigge and G. Jilson (then of Curragh Resources Ltd.). C. Roots and K. Fallas are thanked for constructive reviews.

REFERENCES

- Gorday S.P., 2013. Geology, central Tay River, Yukon; Geological Survey of Canada, Map 2150A, scale 1:250 000. doi:10.4095/288983
- Gorday S.P., 2013. Geology, Selwyn Basin, Yukon; Geological Survey of Canada, Bulletin 599.

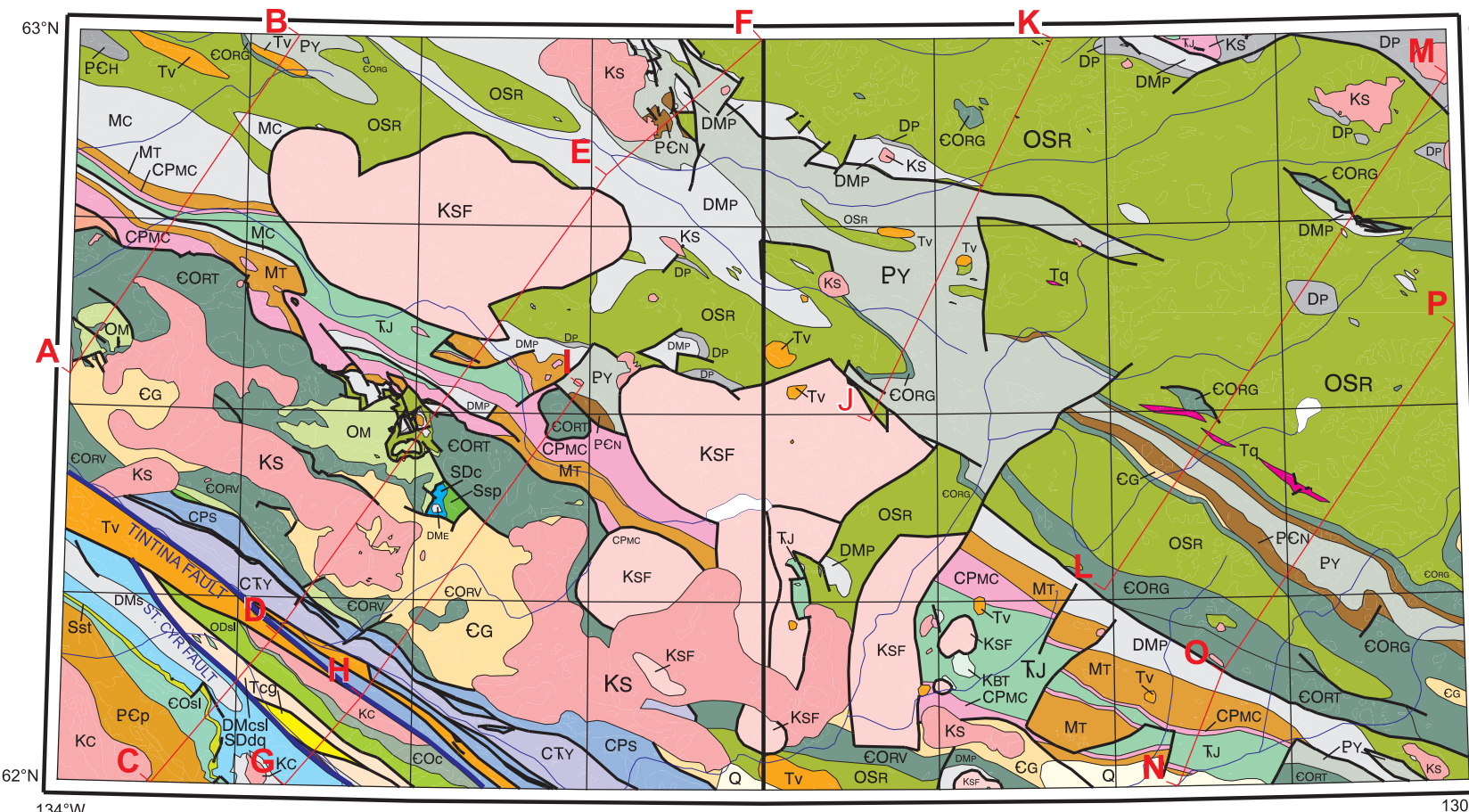


Figure 2. Index map of geology, Tay River-Sheldon Lake area.

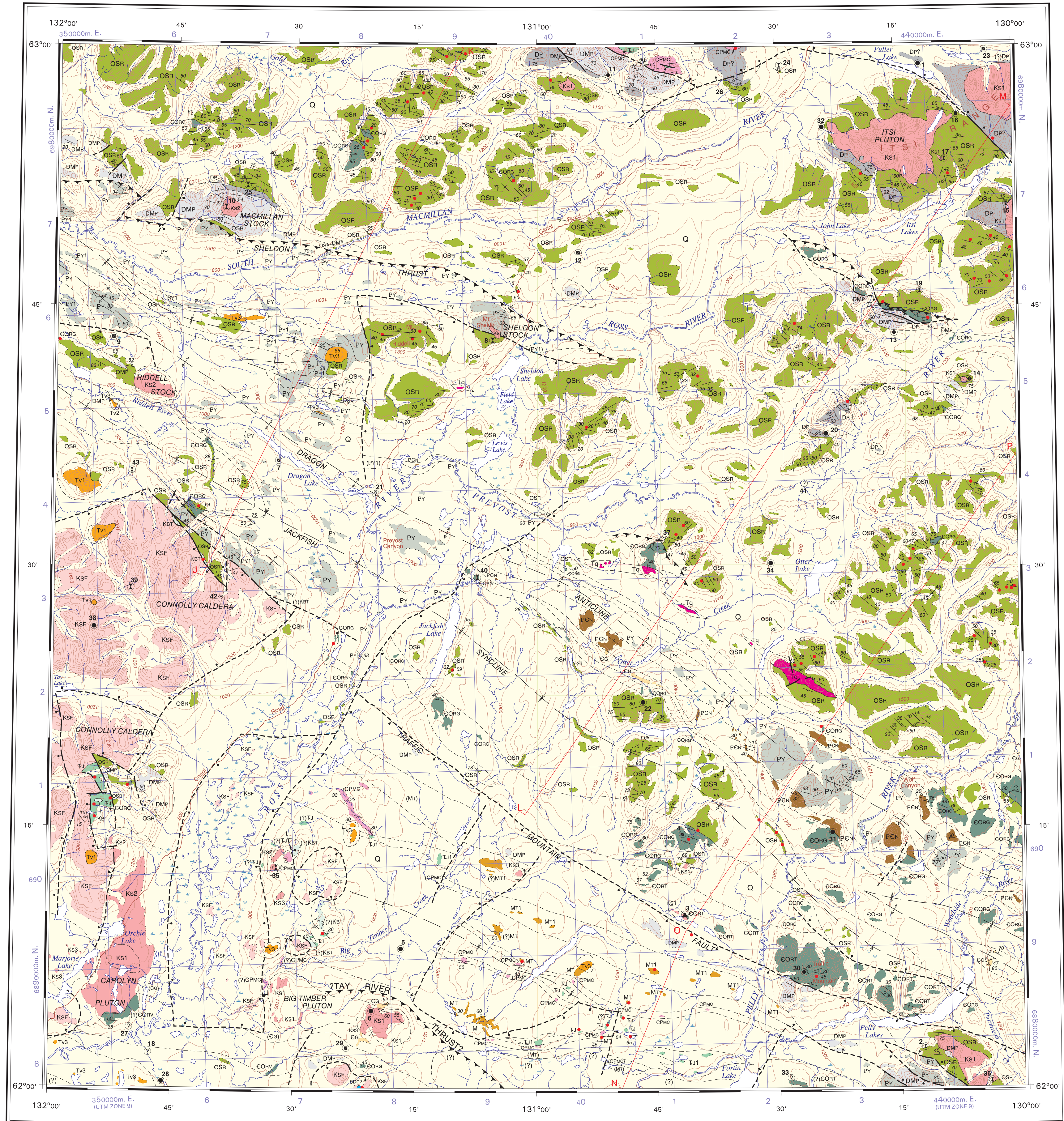
MINFILE ¹	NAME	STATUS	DEPOSIT TYPE	COMMODITIES ¹
1	Fuller	Anomaly	Unknown	—
2	Bill	Showing	Polymetallic veins Ag-Pb-Zn-Au	Pb, Zn
3	Pike	Deposit	Cu-Ag quartz veins	Cu, Ag
4	Norken	Drilled prospect	Polymetallic veins Ag-Pb-Zn-Au	Cu, Pb, Ag, Zn
5	Big timber	Anomaly	Unknown	—
6	Tac	Anomaly	Porphyry Mo (low F-type)	Cu, Mo
7	Dragon	Drilled prospect	W skarn	Cu, Au, Ag, W
8	M. Sheldon	Unknown	Unknown	Cu, Au, Sn, W
9	Riddell	Drilled prospect	Pb-Zn skarn	Cu, Pb, Zn
10	Spearhead	Showing	Polymetallic veins Ag-Pb-Zn-Au	Cu, Zn
11	Ivor	Prospect	Sedimentary exhalative Zn-Pb-Ag (Sedex)	Ag
12	Rog	Drilled prospect	Sedimentary exhalative Zn-Pb-Ag (Sedex)	Zn
13	Clyde	Prospect	Sedimentary exhalative Zn-Pb-Ag (Sedex)	Pb, Zn
14	Prevost	Prospect	W skarn	W
15	Gun	Showing	Pb-Zn skarn	Cu, Zn
16	Isle	Drilled prospect	Maroon and stockwork Sn	Pb, Ag, Sn, Zn
17	Coslin	Showing	Polymetallic veins Ag-Pb-Zn-Au	Pb, Ag, Zn
18	Carolyn	Unknown	Coal	Coal
19	Variscite	Showing	Cu skarn	Cu
20	Macrae	Anomaly	Unknown	—
21	Syndicate	Unknown	Unknown	—
22	Rich	Anomaly	Unknown	—
23	Pete	Drilled prospect	Sediment-hosted baffle	Ba
24	Copas	Showing	Sediment-hosted baffle	Ba
25	St. Godard	Showing	Sedimentary exhalative Zn-Pb-Ag (Sedex)	Ba
26	Prism	Unknown	Unknown	—
27	Marilyn	Unknown	Unknown	—
28	Bojo	Anomaly	Unknown	—
29	Hench	Drilled prospect	Pb-Zn skarn	Pb, Ag, Zn
30	Manylo	Prospect	Pb-Zn skarn	Pb, Ag, Zn
31	Greggie	Anomaly	Unknown	—
32	Carad	Anomaly	Unknown	—
33	Fortin	Unknown	Unknown	Au
34	Dyak	Anomaly	Sedimentary exhalative Zn-Pb-Ag (Sedex)	—
35	Sask	Showing	Mo skarn	Cu, Mo
36	Gulf	Showing	W skarn	Cu, W
37	Rudy	Unknown	Unknown	—
38	Flood	Anomaly	Epithermal Au-Ag low sulphidation	—
39	Wendy	Showing	Au-quartz veins	Au, Ag
40	Nail	Showing	Pb-Zn skarn	—
41	Liberal	Unknown	Unknown	—
42	Pandora	Unknown	Unknown	—
43	VG	Showing	Au-quartz veins	Au, Ag

¹ For full MINFILE number, add prefix "105J" or "105J0", or "105J00" as appropriate, e.g. MINFILE 34 = "105J034"

² Deklerk, R. and Traynor, S. (compilers). 2005. Yukon MINFILE 2005 - A database of mineral occurrences, Yukon Geological Survey, CD-ROM. (updated March, 2008 from Yukon MINFILE online at <http://www.geology.gov.yk.ca>)

— = No known commodities.

Table 1. Mineral prospects (from Yukon MINFILE²), 2010.



This publication is available for free download from GEOCAN (<http://geocan.nrcan.gc.ca/>). doi:10.4095/288980



Author: S.P. Gorday

Geology by S.P. Gorday, 1980, 1982–1983, 1985–1987, with contributions from previous work by J.A. Roddick and L.H. Green

Cartography by R. Cocking, R. Chan, and S.P. Williams, Geological Survey of Canada and E. Everett, Data Dissemination Division

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

GSC MAP 2149A

GEOLOGY

SELWYN BASIN (SHELDON LAKE AND TAY RIVER) YUKON

Scale 1:250 000/Échelle 1:250 000

kilometres 5 0 5 10 15 20 kilometres

Universal Transverse Mercator Projection North American Datum 1983 © Her Majesty the Queen in Right of Canada 2013

Projection transversale universelle de Mercator Système de référence géodésique nord-américain, 1983 © Sa Majesté la Reine du chef du Canada 2013

Digital base map from data compiled by Natural Resources Canada, modified by GSC Pacific

Mean magnetic declination 2013, 22°22' E, decreasing 25' annually Readings vary from 22°13' E in the SW corner to 22°39' E in the NE corner of the map

Elevations in metres above mean sea level

105-N OF 5171	105-O OF 2465	105-P 1333A
2149A Sheet 2	2149A Sheet 1	1782A
105-F OF 1290	105-G OF 4243	105-H MAP 6-1966

LEGEND

NOTE: Units projected beneath unit Q appear in parentheses e.g. (CPMC); (?) indicates projection of units uncertain.

PLEISTOCENE AND RECENT

Q Unconsolidated glacial and alluvial deposits.

TERTIARY

Tv Bimodal volcanic unit: Tv, undivided (not on this sheet); Tv1, small stocks and necks of white-weathering, flow-banded, rhyolitic, quartz-sandstone porphyry; Tv2, laminated rhyolitic ash-flow tuffs and flows; Tv3, dark grey-weathering, locally amygdaloid, dark grey-green basalt necks and flows.

TERTIARY?

Tq Vein unit: white-weathering, white vein quartz.

CRETACEOUS

Mid-Cretaceous SOUTH FORK VOLCANICS: dark brown-weathering, locally columnar jointed, massive, densely welded, biotite-quartz-hornblende-feldspar crystal- and crystal-litic tuff.

SELYWYN PLUTONIC SUITE: KS

KS KS1 KS2 KS3 KS4 KS5 KS6 KS7 KS8 KS9 KS10 KS11 KS12 KS13 KS14 KS15 KS16 KS17 KS18 KS19 KS20 KS21 KS22 KS23 KS24 KS25 KS26 KS27 KS28 KS29 KS30 KS31 KS32 KS33 KS34 KS35 KS36 KS37 KS38 KS39 KS40 KS41 KS42 KS43 KS44 KS45 KS46 KS47 KS48 KS49 KS50 KS51 KS52 KS53 KS54 KS55 KS56 KS57 KS58 KS59 KS60 KS61 KS62 KS63 KS64 KS65 KS66 KS67 KS68 KS69 KS70 KS71 KS72 KS73 KS74 KS75 KS76 KS77 KS78 KS79 KS80 KS81 KS82 KS83 KS84 KS85 KS86 KS87 KS88 KS89 KS90 KS91 KS92 KS93 KS94 KS95 KS96 KS97 KS98 KS99 KS100 KS101 KS102 KS103 KS104 KS105 KS106 KS107 KS108 KS109 KS110 KS111 KS112 KS113 KS114 KS115 KS116 KS117 KS118 KS119 KS120 KS121 KS122 KS123 KS124 KS125 KS126 KS127 KS128 KS129 KS130 KS131 KS132 KS133 KS134 KS135 KS136 KS137 KS138 KS139 KS140 KS141 KS142 KS143 KS144 KS145 KS146 KS147 KS148 KS149 KS150 KS151 KS152 KS153 KS154 KS155 KS156 KS157 KS158 KS159 KS160 KS161 KS162 KS163 KS164 KS165 KS166 KS167 KS168 KS169 KS170 KS171 KS172 KS173 KS174 KS175 KS176 KS177 KS178 KS179 KS180 KS181 KS182 KS183 KS184 KS185 KS186 KS187 KS188 KS189 KS190 KS191 KS192 KS193 KS194 KS195 KS196 KS197 KS198 KS199 KS200 KS201 KS202 KS203 KS204 KS205 KS206 KS207 KS208 KS209 KS210 KS211 KS212 KS213 KS214 KS215 KS216 KS217 KS218 KS219 KS220 KS221 KS222 KS223 KS224 KS225 KS226 KS227 KS228 KS229 KS230 KS231 KS232 KS233 KS234 KS235 KS236 KS237 KS238 KS239 KS240 KS241 KS242 KS243 KS244 KS245 KS246 KS247 KS248 KS249 KS250 KS251 KS252 KS253 KS254 KS255 KS256 KS257 KS258 KS259 KS260 KS261 KS262 KS263 KS264 KS265 KS266 KS267 KS268 KS269 KS270 KS271 KS272 KS273 KS274 KS275 KS276 KS277 KS278 KS279 KS280 KS281 KS282 KS283 KS284 KS285 KS286 KS287 KS288 KS289 KS290 KS291 KS292 KS293 KS294 KS295 KS296 KS297 KS298 KS299 KS300 KS301 KS302 KS303 KS304 KS305 KS306 KS307 KS308 KS309 KS310 KS311 KS312 KS313 KS314 KS315 KS316 KS317 KS318 KS319 KS320 KS321 KS322 KS323 KS324 KS325 KS326 KS327 KS328 KS329 KS330 KS331 KS332 KS333 KS334 KS335 KS336 KS337 KS338 KS339 KS340 KS341 KS342 KS343 KS344 KS345 KS346 KS347 KS348 KS349 KS350 KS351 KS352 KS353 KS354 KS355 KS356 KS357 KS358 KS359 KS360 KS361 KS362 KS363 KS364 KS365 KS366 KS367 KS368 KS369 KS370 KS371 KS372 KS373 KS374 KS375 KS376 KS377 KS378 KS379 KS380 KS381 KS382 KS383 KS384 KS385 KS386 KS387 KS388 KS389 KS390 KS391 KS392 KS393 KS394 KS395 KS396 KS397 KS398 KS399 KS400 KS401 KS402 KS403 KS404 KS405 KS406 KS407 KS408 KS409 KS410 KS411 KS412 KS413 KS414 KS415 KS416 KS417 KS418 KS419 KS420 KS421 KS422 KS423 KS424 KS425 KS426 KS427 KS428 KS429 KS430 KS431 KS432 KS433 KS434 KS435 KS436 KS437 KS438 KS439 KS440 KS441 KS442 KS443 KS444 KS445 KS446 KS447 KS448 KS449 KS450 KS451 KS452 KS453 KS454 KS455 KS456 KS457 KS458 KS459 KS460 KS461 KS462 KS463 KS464 KS465 KS466 KS467 KS468 KS469 KS470 KS471 KS472 KS473 KS474 KS475 KS476 KS477 KS478 KS479 KS480 KS481 KS482 KS483 KS484 KS485 KS486 KS487 KS488 KS489 KS490 KS491 KS492 KS493 KS494 KS495 KS496 KS497 KS498 KS499 KS500 KS501 KS502 KS503 KS504 KS505 KS506 KS507 KS508 KS509 KS510 KS511 KS512 KS513 KS514 KS515 KS516 KS517 KS518 KS519 KS520 KS521 KS522 KS523 KS524 KS525 KS526 KS527 KS528 KS529 KS530 KS531 KS532 KS533 KS534 KS535 KS536 KS537 KS538 KS539 KS540 KS541 KS542 KS543 KS544 KS545 KS546 KS547 KS548 KS549 KS550 KS551 KS552 KS553 KS554 KS555 KS556 KS557 KS558 KS559 KS560 KS561 KS562 KS563 KS564 KS565 KS566 KS567 KS568 KS569 KS570 KS571 KS572 KS573 KS574 KS575 KS576 KS577 KS578 KS579 KS580 KS581 KS582 KS583 KS584 KS585 KS586 KS587 KS588 KS589 KS590 KS591 KS592 KS593 KS594 KS595 KS596 KS597 KS598 KS599 KS600 KS601 KS602 KS603 KS604 KS605 KS606 KS607 KS608 KS609 KS610 KS611 KS612 KS613 KS614 KS615 KS616 KS617 KS618 KS619 KS620 KS621 KS622 KS623 KS624 KS625 KS626 KS627 KS628 KS629 KS630 KS631 KS632 KS633 KS634 KS635 KS636 KS637 KS638 KS639 KS640 KS641 KS642 KS643 KS644 KS645 KS646 KS647 KS648 KS649 KS650 KS651 KS652 KS653 KS654 KS655 KS656 KS657 KS658 KS659 KS660 KS661 KS662 KS663 KS664 KS665 KS666 KS667 KS668 KS669 KS670 KS671 KS672 KS673 KS674 KS675 KS676 KS677 KS678 KS679 KS680 KS681 KS682 KS683 KS684 KS685 KS686 KS687 KS688 KS689 KS690 KS691 KS692 KS693 KS694 KS695 KS696 KS697 KS698 KS699 KS700 KS701 KS702 KS703 KS704 KS705 KS706 KS707 KS708 KS709 KS710 KS711 KS712 KS713 KS714 KS715 KS716 KS717 KS718 KS719 KS720 KS721 KS722 KS723 KS724 KS725 KS726 KS727 KS728 KS729 KS730 KS731 KS732 KS733 KS734 KS735 KS736 KS737 KS738 KS739 KS740 KS741 KS742 KS743 KS744 KS745 KS746 KS747 KS748 KS749 KS750 KS751 KS752 KS753 KS754 KS755 KS756 KS757 KS758 KS759 KS760 KS761 KS762 KS763 KS764 KS765 KS766 KS767 KS768 KS769 KS770 KS771 KS772 KS773 KS774 KS775 KS776 KS777 KS778 KS779 KS780 KS781 KS782 KS783 KS784 KS785 KS786 KS787 KS788 KS789 KS790 KS791 KS792 KS793 KS794 KS795 KS796 KS797 KS798 KS799 KS800 KS801 KS802 KS803 KS804 KS805 KS806 KS807 KS808 KS809 KS810 KS811 KS812 KS813 KS814 KS815 KS816 KS817 KS818 KS819 KS820 KS821 KS822 KS823 KS824 KS825 KS826 KS827 KS828 KS829 KS830 KS831 KS832 KS833 KS834 KS835 KS836 KS837 KS838 KS839 KS840 KS841 KS842 KS843 KS844 KS845 KS846 KS847 KS848 KS849 KS850 KS851 KS852 KS853 KS854 KS855 KS856 KS857 KS858 KS859 KS860 KS861 KS862 KS863 KS864 KS865 KS866 KS867 KS868 KS869 KS870 KS871 KS872 KS873 KS874 KS875 KS876 KS877 KS878 KS879 KS880 KS881 KS882 KS883 KS884 KS885 KS886 KS887 KS888 KS889 KS890 KS891 KS892 KS893 KS894 KS895 KS896 KS897 KS898 KS899 KS900 KS901 KS902 KS903 KS904 KS905 KS906 KS907 KS908 KS909 KS910 KS911 KS912 KS913 KS914 KS915 KS916 KS917 KS918 KS919 KS920 KS921 KS922 KS923 KS924 KS925 KS926 KS927 KS928 KS929 KS930 KS931 KS932 KS933 KS934 KS935 KS936 KS937 KS938 KS939 KS940 KS941 KS942 KS943 KS944 KS945 KS946 KS947 KS948 KS949 KS950 KS951 KS952 KS953 KS954 KS955 KS956 KS957 KS958 KS959 KS960 KS961 KS962 KS963 KS964 KS965 KS966 KS967 KS968 KS969 KS970 KS971 KS972 KS973 KS974 KS975 KS976 KS977 KS978 KS979 KS980 KS981 KS982 KS983 KS984 KS985 KS986 KS987 KS988 KS989 KS990 KS991 KS992 KS993 KS994 KS995 KS996 KS997 KS998 KS999 KS1000 KS1001 KS1002 KS1003 KS1004 KS1005 KS1006 KS1007 KS1008 KS1009 KS1010 KS1011 KS1012 KS1013 KS1014 KS1015 KS1016 KS1017 KS1018 KS1019 KS1020 KS1021 KS1022 KS1023 KS1024 KS1025 KS1026 KS1027 KS1028 KS1029 KS1030 KS1031 KS1032 KS1033 KS1034 KS1035 KS1036 KS1037 KS1038 KS1039 KS1040 KS1041 KS1042 KS1043 KS1044 KS1045 KS1046 KS1047 KS1048 KS1049 KS1050 KS1051 KS1052 KS1053 KS1054 KS1055 KS1056 KS1057 KS1058 KS1059 KS1060 KS1061 KS1062 KS1063 KS1064 KS1065 KS1066 KS1067 KS1068 KS1069 KS1070 KS1071 KS1072 KS1073 KS1074 KS1075 KS1076 KS1077 KS1078 KS1079 KS1080 KS1081 KS1082 KS1083 KS1084 KS1085 KS1086 KS1087 KS1088 KS1089 KS1090 KS1091 KS1092 KS1093 KS1094 KS1095 KS1096 KS1097 KS1098 KS1099 KS1100 KS1101 KS1102 KS1103 KS1104 KS1105 KS1106 KS1107 KS1108 KS1109 KS1110 KS1111 KS1112 KS1113 KS1114 KS1115 KS1116 KS1117 KS1118 KS1119 KS1120 KS1121 KS1122 KS1123 KS1124 KS1125 KS1126 KS1127 KS1128 KS1129 KS1130 KS1131 KS1132 KS1133 KS1134 KS1135 KS1136 KS1137 KS1138 KS1139 KS1140 KS1141 KS1142 KS1143 KS1144 KS1145 KS1146 KS1147 KS1148 KS1149 KS1150 KS1151 KS1152 KS1153 KS1154 KS1155 KS1156 KS1157 KS1158 KS1159 KS1160 KS1161 KS1162 KS1163 KS1164 KS1165 KS1166 KS1167 KS1168 KS1169 KS1170 KS1171 KS1172 KS1173 KS1174 KS1175 KS1176 KS1177 KS1178 KS1179 KS1180 KS1181 KS1182 KS1183 KS1184 KS1185 KS1186 KS1187 KS1188 KS1189 KS1190 KS1191 KS1192 KS1193 KS1194 KS1195 KS1196 KS1197 KS1198 KS1199 KS1200 KS1201 KS1202 KS1203 KS1204 KS1205 KS1206 KS1207 KS1208 KS1209 KS1210 KS1211 KS1212 KS1213 KS1214 KS1215 KS1216 KS1217 KS1218 KS1219 KS1220 KS1221 KS1222 KS1223 KS1224 KS1225 KS1226 KS1227 KS1228 KS1229 KS1230 KS1231 KS1232 KS1233 KS1234 KS1235 KS1236 KS1237 KS1238 KS1239 KS1240 KS1241 KS1242 KS1243 KS1244 KS1245 KS1246 KS1247 KS1248 KS1249 KS1250 KS1251 KS1252 KS1253 KS1254 KS1255 KS1256 KS1257 KS1258 KS1259 KS1260 KS1261 KS1262 KS1263 KS1264 KS1265 KS1266 KS1267 KS1268 KS1269 KS1270 KS1271 KS1272 KS1273 KS1274 KS1275 KS1276 KS1277 KS1278 KS1279 KS1280 KS1281 KS1282 KS1283 KS1284 KS1285 KS1286 KS1287 KS1288 KS1289 KS1290 KS1291 KS1292 KS1293 KS1294 KS1295 KS1296 KS1297 KS1298 KS1299 KS1300 KS1301 KS1302 KS1303 KS1304 KS1305 KS1306 KS1307 KS1308 KS1309 KS1310 KS1311 KS1312 KS1313 KS1314 KS1315 KS1316 KS1317 KS1318 KS1319 KS1320 KS1321 KS1322 KS1323 KS1324 KS1325 KS1326 KS1327 KS1328 KS1329 KS1330 KS1331 KS1332 KS1333 KS1334 KS1335 KS1336 KS1337 KS1338 KS133