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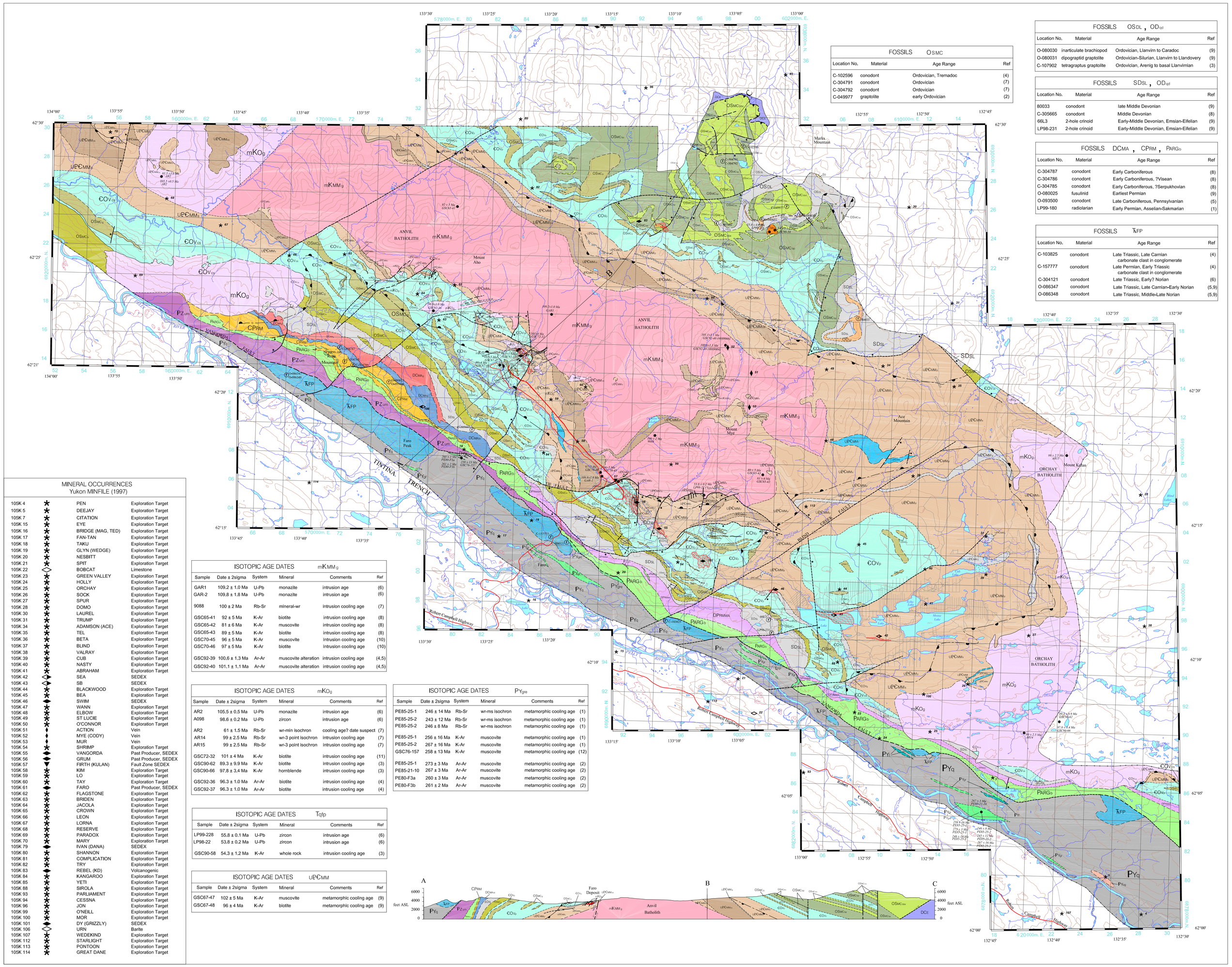
Canada



FOSSILS OS_{MC}			
Location No.	Material	Age Range	Ref
C-102596	conodont	Ordovician, Tremadoc	(4)
C-304791	conodont	Ordovician	(7)
C-304792	conodont	Ordovician	(7)
C-049977	graptolite	early Ordovician	(2)

FOSSILS OS_{DL} , OD_{ql}			
Location No.	Material	Age Range	Ref
O-080030	inarticulate brachiopod	Ordovician, Llanvirn to Caradoc	(9)
O-080031	dipograptid graptolite	Ordovician-Silurian, Llanvirn to Llandovery	(9)
C-107902	tetragraptus graptolite	Ordovician, Arenig to basal Llanvirnian	(3)

FOSSILS SD_{SL} , OD_{qd}			
Location No.	Material	Age Range	Ref
80033	conodont	late Middle Devonian	(9)
C-305665	conodont	Middle Devonian	(8)
66L3	2-hole crinoid	Early-Middle Devonian, Emsian-Eifelian	(9)
LP98-231	2-hole crinoid	Early-Middle Devonian, Emsian-Eifelian	(9)

FOSSILS DC_{MA} , CP_{RM} , $PARG_{S}$			
Location No.	Material	Age Range	Ref
C-304787	conodont	Early Carboniferous	(8)
C-304786	conodont	Early Carboniferous, ?Visean	(8)
C-304785	conodont	Early Carboniferous, ?Serpukhovian	(8)
O-080025	fusulinid	Earliest Permian	(9)
O-093500	conodont	Late Carboniferous, Pennsylvanian	(5)
LP99-180	radiolarian	Early Permian, Asselian-Sakmarian	(1)

FOSSILS $\bar{\lambda}FP$			
Location No.	Material	Age Range	Ref
C-103825	conodont	Late Triassic, Late Carnian carbonate clast in conglomerate	(4)
C-157777	conodont	Late Permian, Early Triassic carbonate clast in conglomerate	(4)
C-304121	conodont	Late Triassic, Early? Norian	(6)
O-086347	conodont	Late Triassic, Late Carnian-Early Norian	(5,9)
O-086348	conodont	Late Triassic, Middle-Late Norian	(5,9)

ISOTOPIC AGE DATES $mK_{MM\,g}$					
Sample	Date ± 2sigma	System	Mineral	Comments	Ref
GAR1	109.2 ± 1.0 Ma	U-Pb	monazite	intrusion age	(6)
GAR-2	109.8 ± 1.8 Ma	U-Pb	monazite	intrusion age	(6)
9088	100 ± 2 Ma	Rb-Sr	mineral-wr	intrusion cooling age	(7)
GSC65-41	92 ± 5 Ma	K-Ar	biotite	intrusion cooling age	(8)
GSC65-42	81 ± 6 Ma	K-Ar	muscovite	intrusion cooling age	(8)
GSC65-43	89 ± 5 Ma	K-Ar	biotite	intrusion cooling age	(8)
GSC70-45	96 ± 5 Ma	K-Ar	muscovite	intrusion cooling age	(10)
GSC70-46	97 ± 5 Ma	K-Ar	biotite	intrusion cooling age	(10)
GSC92-39	100.6 ± 1.3 Ma	Ar-Ar	muscovite alteration	intrusion cooling age	(4,5)
GSC92-40	101.1 ± 1.1 Ma	Ar-Ar	muscovite alteration	intrusion cooling age	(4,5)

ISOTOPIC AGE DATES $mK_{O\,g}$					
Sample	Date ± 2sigma	System	Mineral	Comments	Ref
AR2	105.5 ± 0.5 Ma	U-Pb	monazite	intrusion age	(6)
A098	98.6 ± 0.2 Ma	U-Pb	zircon	intrusion age	(6)
AR2	61 ± 1.5 Ma	Rb-Sr	wr-miin isochron	cooling age? date suspect	(7)
AR14	99 ± 2.5 Ma	Rb-Sr	wr-3 point isochron	intrusion cooling age	(7)
AR15	99 ± 2.5 Ma	Rb-Sr	wr-3 point isochron	intrusion cooling age	(7)
GSC72-32	101 ± 4 Ma	K-Ar	biotite	intrusion cooling age	(11)
GSC90-62	89.3 ± 9.9 Ma	K-Ar	biotite	intrusion cooling age	(3)
GSC90-66	97.8 ± 3.4 Ma	K-Ar	hornblende	intrusion cooling age	(3)
GSC92-36	96.3 ± 1.0 Ma	Ar-Ar	biotite	intrusion cooling age	(4)
GSC92-37	96.3 ± 1.0 Ma	Ar-Ar	biotite	intrusion cooling age	(4)

ISOTOPIC AGE DATES PY_{gnt}					
Sample	Date ± 2sigma	System	Mineral	Comments	Ref
PE85-25-1	246 ± 14 Ma	Rb-Sr	wr-mis isochron	metamorphic cooling age	(1)
PE85-25-2	243 ± 12 Ma	Rb-Sr	wr-mis isochron	metamorphic cooling age	(1)
PE85-25-2	246 ± 8 Ma	Rb-Sr	wr-mis isochron	metamorphic cooling age	(1)
PE85-25-1	256 ± 16 Ma	K-Ar	muscovite	metamorphic cooling age	(1)
PE85-25-2	267 ± 16 Ma	K-Ar	muscovite	metamorphic cooling age	(1)
GSC76-157	258 ± 13 Ma	K-Ar	muscovite	metamorphic cooling age	(12)
PE85-25-1	273 ± 3 Ma	Ar-Ar	muscovite	metamorphic cooling age	(2)
PE85-21-10	267 ± 3 Ma	Ar-Ar	muscovite	metamorphic cooling age	(2)
PE80-F3a	260 ± 3 Ma	Ar-Ar	muscovite	metamorphic cooling age	(2)
PE80-F3b	261 ± 2 Ma	Ar-Ar	muscovite	metamorphic cooling age	(2)

ISOTOPIC AGE DATES Tqfp					
Sample	Date ± 2sigma	System	Mineral	Comments	Ref
LP99-228	55.8 ± 0.1 Ma	U-Pb	zircon	intrusion age	(6)
LP98-22	53.8 ± 0.2 Ma	U-Pb	zircon	intrusion age	(6)
GSC90-58	54.3 ± 1.2 Ma	K-Ar	whole rock	intrusion cooling age	(3)

ISOTOPIC AGE DATES $uP\bar{\epsilon}_{MM}$					
Sample	Date ± 2sigma	System	Mineral	Comments	Ref
GSC67-47	102 ± 5 Ma	K-Ar	muscovite	metamorphic cooling age	(9)
GSC67-48	96 ± 4 Ma	K-Ar	biotite	metamorphic cooling age	(9)

MINERAL OCCURRENCES Yukon MINFILE (1997)			
105K 4	★	PEN	Exploration Target
105K 5	★	DEEJAY	Exploration Target
105K 7	★	CITATION	Exploration Target
105K 15	★	EYE	Exploration Target
105K 16	★	BRIDGE (MAG, TED)	Exploration Target
105K 17	★	FAN-TAN	Exploration Target
105K 18	★	TAKU	Exploration Target
105K 19	★	GLYN (WEDGE)	Exploration Target
105K 20	★	NESBITT	Exploration Target
105K 21	★	SPIT	Exploration Target
105K 22	◇	BOBCAT	Limestone
105K 23	★	GREEN VALLEY	Exploration Target
105K 24	★	HOLLY	Exploration Target
105K 25	★	ORCHAY	Exploration Target
105K 26	★	SOCK	Exploration Target
105K 27	★	SPUR	Exploration Target
105K 28	★	DOMO	Exploration Target
105K 30	★	LAUREL	Exploration Target
105K 31	★	TRUMP	Exploration Target
105K 34	★	ADAMSON (ACE)	Exploration Target
105K 35	★	TEL	Exploration Target
105K 36	★	BETA	Exploration Target
105K 37	★	BLIND	Exploration Target
105K 38	★	VALRAY	Exploration Target
105K 39	★	CUB	Exploration Target
105K 40	★	NASTY	Exploration Target
105K 41	★	ABRAHAM	Exploration Target
105K 42	◇	SEA	SEDEX
105K 43	◇	SB	SEDEX
105K 44	★	BLACKWOOD	Exploration Target
105K 45	★	BEA	Exploration Target
105K 46	◆	SWIM	SEDEX
105K 47	★	WANN	Exploration Target
105K 48	★	ELBOW	Exploration Target
105K 49	★	ST LUCIE	Exploration Target
105K 50	★	O'CONNOR	Exploration Target
105K 51	♦	ACTION	Vein
105K 52	♦	MYE (CODY)	Vein
105K 53	♦	MUR	Exploration Target
105K 54	★	SHRIMP	Exploration Target
105K 55	◆	VANGORDA	Past Producer, SEDEX
105K 56	◆	GRUM	Past Producer, SEDEX
105K 57	▼	FIRTH (KULAN)	Fault Zone SEDEX
105K 58	★	KIM	Exploration Target
105K 59	★	LO	Exploration Target
105K 60	★	TAY	Exploration Target
105K 61	◆	FARO	Past Producer, SEDEX
105K 62	★	FLAGSTONE	Exploration Target
105K 63	★	BRIDEN	Exploration Target
105K 64	★	JACOLA	Exploration Target
105K 65	★	CROWN	Exploration Target
105K 66	★	LEON	Exploration Target
105K 67	★	LORNA	Exploration Target
105K 68	★	RESERVE	Exploration Target
105K 69	★	PARADOX	Exploration Target
105K 70	★	MARY	Exploration Target
105K 79	◆	IVAN (DANA)	SEDEX
105K 80	★	SHANNON	Exploration Target
105K 81	★	COMPLICATION	Exploration Target
105K 82	★	TRY	Exploration Target
105K 83	★	REBEL (KD)	Volcanogenic
105K 84	★	KANGAROO	Exploration Target
105K 85	★	YETI	Exploration Target
105K 88	★	SIROLA	Exploration Target
105K 93	★	PARLIAMENT	Exploration Target
105K 94	★	CESSNA	Exploration Target
105K 96	★	JON	Exploration Target
105K 99	★	O'NEILL	Exploration Target
105K 100	★	MOR	Exploration Target
105K 101	◆	DY (GRIZZLY)	SEDEX
105K 106	◇	URN	Barite
105K 107	★	WEDEKIND	Exploration Target
105K 112	★	STARLIGHT	Exploration Target
105K 113	★	PONTOON	Exploration Target
105K 114	★	GREAT DANE	Exploration Target

LEGEND

TERTIARY

T_{qfp} — White-weathering, aphanitic to fine-grained, locally flow-banded quartz-feldspar porphyry. Commonly contains phenocrysts of smokey grey quartz, biotite, and white feldspar.

CRETACEOUS

TAY RIVER PLUTONIC SUITE

mKO_g — Orchay phase - biotite ± hornblende granite to granodiorite.

ANVIL PLUTONIC SUITE

$mKMM_g$ — Mount Mye phase - biotite-muscovite granite. Locally foliated.

TRIASSIC

FARO PEAK FORMATION

$\bar{\lambda}FP$ — Resistant, massive, polymictic conglomerate. Interbedded with carbonaceous shale or siltstone, fine-grained limestone, grey, green, red or black bedded chert, sandstone and mafic greywacke, and aphanitic basalt.

PALEOZOIC

YUKON-TANANA TERRANE

P_{YL} — Medium to dark grey, locally gritty, muscovitic meta-quartzite to quartzose schist. Contains bands of greywacke, gabbro, phyllite. Rarely contains eclogite lenses.

$P_{Y\bar{h}}$ — Grey to tan, massive limestone or dolostone.

P_{Yp} — Medium to dark olive green, chloritic phyllite to amphibolite. Locally displays relict equigranular igneous texture. Locally includes ultramafic and/or eclogite (PYge).

P_{Yg} — Granitic orthogneiss, locally with feldspar augen.

PERMIAN

ANVIL RANGE GROUP

$PARG_S$ — Epidotized, locally hematitic, dark green, resistant, massive, poorly foliated basalt or brecciated basalt. Contains lesser grey, green, red, and black bedded chert and pale green epivolcaniclastic sandstone or conglomerate.

PZ_{um} — Mafic and ultramafic intrusive rocks. Includes serpentinite, harzburgite, gabbro, and diabase. Locally extensively sheared.

EARLY CARBONIFEROUS-PERMIAN

ROSE MOUNTAIN FORMATION

CP_{RM} — Pale green, tan-weathering, bedded phyllitic chert interbedded with lesser maroon chert and argillite, especially near top of unit. Also contains minor black bedded chert, black chert-pebble conglomerate, siltstone, limestone and argillite.

DEVONIAN-PERMIAN

UNDIVIDED ROSE MOUNTAIN FORMATION and MOUNT AHO GROUP

DP_{RMMA} — Dark grey to black, pale green, and maroon, noncalcareous argillite and bedded chert with lesser grey siltstone, sandstone, chert-pebble conglomerate, and limestone.

DEVONIAN-EARLY CARBONIFEROUS

MOUNT AHO GROUP

DC_{MAu} — Dark grey to black, noncalcareous, siliceous argillite and bedded chert with lesser grey siltstone, sandstone, chert pebble conglomerate, and rhythmically bedded limestone. Contains silvery cream, tan-weathering, bedded phyllitic chert with light grey barite beds.

DC_{MAp} — Pale green, noncalcareous argillite and bedded chert with lesser pale green shale chip and siltstone breccia, grey sandstone, and grey to green chert-pebble conglomerate. Locally contains maroon argillite and bedded chert, especially near bottom and top of unit. Contains silvery cream, tan-weathering, bedded phyllitic chert with light grey barite beds.

EARN GROUP

DC_E — Dark grey to black, noncalcareous, siliceous argillite with lesser siltstone, sandstone, chert-pebble conglomerate, and limestone.

SILURIAN-DEVONIAN

SWIM LAKES FORMATION

SD_{SL} — Dark grey to black argillite with lesser medium to pale grey siltstone and fine sandstone, medium grey limestone, and basalt flows. Locally contains middle Devonian limestone beds with 2-hole crinoid macrofossils.

QUARTZ ARENITE and DOLOSTONE

OD_{qd} — Massive, medium-grained, quartz arenite interbedded with pale tan-weathering limestone or dolostone.

ORDOVICIAN-SILURIAN

ROAD RIVER GROUP

STEEL FORMATION

Ss — Tan- to orange-weathering, dolomitic, bioturbated, silty mudstone. Not differentiated southwest of the Anvil Batholith.

DUO LAKE FORMATION

OS_{DL} — Dark grey to black, graptolitic argillite. Contains lesser medium to pale grey siltstone and fine sandstone, medium grey limestone, and basalt flows.

MENZIE CREEK FORMATION

OSM_{Cb} — Undivided dark grey green, foliated basalt. Includes massive and pillowed, locally amygdaloidal flows and heterolithic or monolithic breccias with lesser limestone, argillite, and tuff.

OSM_{Cbb} — Dark grey green, locally amygdaloidal, massive and pillowed basalt with minor monolithic basalt breccia, volcaniclastic sandstone, siltstone, and tuff.

OSM_{Cbx} — Dark grey green, monolithic basalt breccia with lesser volcaniclastic sandstone, siltstone and tuff, and massive and pillowed flows.

OSM_{Cs} — Dark green, locally magnetic, coarse- to fine-grained, massive to foliated gabbro with lesser pyroxenite. Subvolcanic dykes and sills to Menzie Creek basalts (OSMCb). Enclosing phyllites locally display thin contact metamorphic aureoles.

CAMBRIAN-ORDOVICIAN

VANGORDA FORMATION

$\bar{C}OV_p$ — Soft, silvery grey, calcareous phyllite with lesser medium crystalline grey marble (COVl), dark grey to black phyllite (COVg), and dark green gabbro sills and dykes (OSMCg). Greenschist facies equivalent of COVcs.

$\bar{C}OV_{cs}$ — Pale green and dark purplish brown, thinly banded calc-silicate rock with lesser black schist (COVg), marble (COVl), and dark green gabbro dykes and sills (OSMCg). Amphibolite facies equivalent of COVp.

$\bar{C}OV_g$ — Black, locally calcareous, carbonaceous phyllite or schist. Commonly contains thin quartzose siltstone interbeds. Interbanded with dark green gabbro dykes and sills (OSMCg).

UPPER PROTEROZOIC-CAMBRIAN

MOUNT MYE FORMATION

$uP\bar{\epsilon}_{MMu}$ — Brownish grey, noncalcareous, pervasively foliated phyllite. Locally indistinctly bedded. Contains minor siltstone, limestone/marble, calc-silicate rock, carbonaceous phyllite and dark green gabbro dykes and sills (OSMCg).

$uP\bar{\epsilon}_{MMs}$ — Brownish grey, noncalcareous, pervasively foliated muscovite-biotite schist. May contain staurolite, garnet, andalusite, or fibrolite. Locally indistinctly bedded. Contains minor siltstone, limestone/marble, calc-silicate rock, carbonaceous phyllite and dark green gabbro dykes and sills (OSMCg).

$uP\bar{\epsilon}_{MMt}$ — Interbanded pale green calc-silicate rock and purplish brown biotite phyllite. Contains thin, medium to dark grey marble and silicated marble beds and dark green gabbro dykes and sills (OSMCg). Lithologically similar to Vangorda calc-silicate rock.

$uP\bar{\epsilon}_{MMl}$ — Dark to pale grey, medium crystalline marble. Typically contains abundant boudins of calc-silicate rock and/or quartz. Locally contains coarsely crystalline garnet-pyroxene skarn.

$uP\bar{\epsilon}_{MMq}$ — Black phyllite to schist. Locally contains lenses and beds of black carbonaceous limestone and dark green gabbro dykes and sills (OSMCg).

SYMBOLS

- Geological contact (defined, approximate, assumed)
- Fault or vein-fault, displacement unknown (defined, approximate, assumed)
- Thrust fault (defined, approximate, assumed, teeth on hanging wall)
- Normal fault (defined, approximate, assumed, dot on downthrown side)
- Strike-slip fault (defined, approximate, assumed)
- Fold surface axial trace (upright anticline, syncline, overturned anticline, syncline)
- Metamorphic boundary (symbol on higher grade side) — $\bar{\lambda}FP$/PY_{gnt}
- Projection to surface of mineralized volume
- Limit of mapping
- Isotopic age determination sample location and age includes radiometric age, 2 sigma error, and sample number — 69.8 ± 0.5 Ma GSC70-45
- Fossil sample, includes sample number — GC-98-65
- Line of cross section — A B

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RECOMMENDED CITATION

Pigage, L.C., 2001. Geological map of Anvil District (NTS 105K/2, 3, 5, 6, 7, 11), central Yukon (1:100 000 scale). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 2001-31.

Digital cartography and drafting by L.C. Pigage, Yukon Geology Program.

Any revisions or additional geological information known to the user would be welcomed by the Yukon Geology Program.

Paper copies of this map, the accompanying report and Yukon MINFILE may be purchased from the Geoscience Information and Sales, c/o Whitehorse Mining Recorder, Indian and Northern Affairs Canada, Room 102-300 Main St. Whitehorse, Yukon, Y1A 2B5. Ph. 867-667-3266, Fx. 867-667-3267, Email geosales@inac.gc.ca.

A digital PDF (Portable Document Format) file of this map may be downloaded free of charge from the Yukon Geology Program website at www.geology.gov.yk.ca.

Keep this map in a dark area to keep colours from fading.

YUKON INDEX MAP

Topographic base produced by SURVEYS AND MAPPING BRANCH DEPARTMENT OF ENERGY, MINES AND RESOURCES

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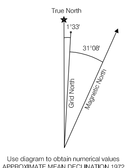
ONE THOUSAND METRE
Universal Transverse Mercator Grid
ZONE 8

ANVIL DISTRICT
(105K/2, 3, 5, 6, 7, 11)
YUKON TERRITORY
SCALE 1:100 000

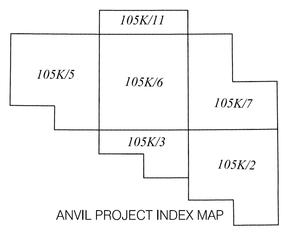
Miles 1 0 1 2 3 4 5 6 7 Miles

Metres 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 Metres

CONTOUR INTERVAL 500 FEET
Elevations in feet above Mean Sea Level
North American Datum 1983
Transverse Mercator Projection



Use diagram to obtain numerical values
APPROXIMATE MEAN DECLINATION, 1972
FOR CENTRE OF MAP
Annual change decreasing 4.7'



ANVIL PROJECT INDEX MAP

Note: This map has been compiled and updated from earlier 1:25 000 scale mapping in fifteen 1999 to 2001 EGSD Open Files by L.C. Pigage.

Indian and Northern Affairs Canada
Exploration and Geological Services Division
Yukon Region

Open File 2001-31

Geological Map of Anvil District (NTS 105K/2, 3, 5, 6, 7, 11), Central Yukon (1:100 000 scale)

compiled by

L.C. Pigage
Yukon Geology Program