GEOLOGICAL LEGEND

SYN- TO POST ACCRETIONARY LAYERED ROCKS

MIOCENE TO PLEISTOCENE

MiPlT — **TUYA FORMATION:** *alkali olivine basalt, tuff, agglomerate, minor trachyte and rhyolite*

EOCENE

Ev — *Rhyolite, chalcedonic rhyolite breccia, tuff*

UPPER CRETACEOUS? TO TERTIARY

KTs — **SIFTON FORMATION:** *poorly sorted pebble to boulder conglomerate, sandstone, siltstone, shale, minor coal*

MID CRETACEOUS TO LATE CRETACEOUS

SUSTUT GROUP

uKTs — **TANGO CREEK FORMATION:** *Predominately sandstone, siltstone and mudstone with conglomerate interbeds containing chert, volcanic and granitic clasts*

MIDDLE JURASSIC TO MID CRETACEOUS

BOWSER LAKE GROUP (JKG - mJBa)

JKG — *Undivided; chert pebble conglomerate, grit, greywacke, subgreywacke, siltstone and shale; interbedded spiculatic feldspathic and volcanic conglomerate, sandstone, siltstone, shale and argillite; minor coal and carbonaceous units; includes lesser andesite flows, tuff and breccia*

LOWER TO MIDDLE JURASSIC

mJBv — *Maroon plagioclase porphyry flows and breccias, green and grey-green aphyric and plagioclase porphyritic flows, breccia and tuff*

mJBs — *Maroon sandstone and siltstone, chert pebble conglomerate, local grey and green sandstone*

LOWER JURASSIC

LABERGE GROUP (lJl - lJTrl)

lJl — **INKLIN FORMATION:** *Local penetratively cleaved, phyllitic slate, greywacke, pebble and cobble conglomerate. May overlap Cache Creek terrane*

TAKWAHONI FORMATION (lJTs - lJTrl)

lJTs — *Undivided greywacke, shale, siltstone, conglomerate, tuff, sandy limestone, arkosic, calcareous sandstone, basal conglomerate*

lJTcs — *Conglomerate, shale, tuff*

lJTw — *Greywacke, shale, minor conglomerate; may include abundant sills and dikes of quartz-feldspar porphyry and granodiorite*

lJTv — *Grey to green andesitic breccia and tuff and spiculatistic, mostly late Pliensbachian, perhaps also ranging to Bajocian*

lJTsl — *Dark grey and black shale, siltstone, tuff, minor greywacke, may also be interpreted as part of the basal Inklin formation*

lJTc — *Coarse, polymictic conglomerate; may be partly Toarcian, may also be interpreted as basal conglomerate of the Inklin Formation*

POST ACCRETIONARY INTRUSIVE ROCKS

EOCENE

Eg — **MAJOR HART PLUTON:** *granite, miarolitic in part*

LATE CRETACEOUS

LKg — *Biotite-hornblende granite to alaskite, miarolitic in part; includes the **Little Eagle Pluton***

EARLY CRETACEOUS

EKc — **CASSIAR BATHOLITH:** *biotite-hornblende and biotite-muscovite granite, locally coarsely megacrystic; quartz monzonite, granodiorite, locally abundant lit par lit gneiss and screens and pendants of metamorphic rocks. Includes small plutons of Late Cretaceous and Eocene age*

EKg — *Biotite granite and granodiorite; medium-grained, equigranular, unfoliated; includes **Turnagain and the Steele Range plutons***

MIDDLE TO LATE JURASSIC

MLJgd — *Biotite-hornblende granodiorite; includes the **Snowdrift Creek Pluton***

MIDDLE JURASSIC

MJTsp — *Poissic marginal phase: biotite-hornblende quartz monzonite, granite, syenite*

MJTsc — *Central phase: biotite-hornblende quartz monzodiorite, quartz monzonite*

MJTsm — *Mafic phase: biotite-hornblende monzodiorite, diorite, gabbro*

MJgd — *Hornblende-biotite granodiorite quartz monzodiorite and lesser granite*

MJm — *Hornblende monzonite, hornblende granodiorite, diorite*

EARLY JURASSIC

EJgd — *Granodiorite, biotite hornblende quartz monzonite, quartz diorite; includes **McBride River Pluton***

EJd — *Hornblende diorite and gabbro phase of the **McBride River Pluton***

STIKINE TERRANE

UPPER TRIASSIC AND LOWER JURASSIC

TrJ — *Undifferentiated Triassic and lower Jurassic volcanic and sedimentary rocks*

TrJv — *Undifferentiated Triassic and Jurassic calcalkaline and tholeiitic volcanic lava, tuff and derived volcaniclastic rocks; in 104I grey and maroon plagioclase porphyry, andesite, volcanic conglomerate, tuffaceous mudstone, breccia, rhyolite, minor siltstone and shale*

UPPER TRIASSIC

STUHINI GROUP (uTrsv - uTrss)

uTrsv — *Undivided volcanic strata: including variegated lapilli tuff, lesser ash, breccia and tuffite. Mainly green and maroon. Massive pale green weathering, mafic to intermediate ash and lapilli tuff*

uTrsl — *Limestone, field argillaceous limestone, calcareous shale and reefal limestone; very minor greywacke and siltstone*

uTrss — **SINWA FORMATION:** *Massive to rarely fossiliferous reefal limestone and limestone breccia, locally argillaceous and felsic*

LATE TRIASSIC

LTrd — **BEGGARLY CREEK PLUTON:** *biotite-hornblende diorite, gabbro, monzodiorite, pyroxenite*

LTrg — **GNAT LAKES ULTRAMAFITE:** *hornblende clinopyroxenite, hornblendite*

LTrgb — *Augite metagabbro, augite-biotite-hornblende gabbro, monzodiorite and monzogabbro*

LTrgm — *Hornblende quartz monzonite, granodiorite, weakly to moderately foliated monzodiorite (and metamorphosed equivalents); rare hornblende diorite; includes **Cake Hill Pluton***

LTrgd — *Hornblende quartz diorite, monzodiorite, strongly foliated; includes **Latham Creek Pluton***

MIDDLE TRIASSIC

mTrs — *Shale, concretionary black shale, minor calcareous shale and siltstone; grey bedded argillite, siliceous argillite, phyllite, tuffaceous greywacke, nonbedded tuffaceous argillite, rare chert and dark grey limestone; may in part be Lower Triassic in age*

mTrv — *Augite porphyry meta-andesite and meta-basalt breccia, tuff and flows, plagioclase porphyry meta-andesite pillow lava, flows and breccia, grey to green tuffaceous greywacke, siltstone and argillite; may be in part Lower Triassic in age*

LOWER TRIASSIC

lTrs — *Black argillite, calcareous shale and siltstone; argillite, siliceous argillite, greywacke, phyllite, **augite** porphyry breccia and tuff, minor chert and limestone*

UPPER PALEOZOIC

STIKINE ASSEMBLAGE: ARC-REEF COMPLEXES (uPzSv - lPSl)

uPzSv — *Foliated grey-green plagioclase porphyry, phyllitic and tuffaceous siltstone and wacke; dark green phyllitic greenstone*

uPzSs — *Siliceous siltstone, turbidite, chert and conglomerate,; rusty weathering, light green phyllite, phyllitic greenstone, minor chert, rare limestone*

LOWER PERMIAN

lPSl — *Thin to thick-bedded or massive, dark grey to white, variably recrystallized, hackley-weathering, limestone, locally fossiliferous; buff to orange weathering dolostone; dark grey carbonaceous limestone and calcareous siltstone, minor amounts of chert; rare tuff lenses*

QUESNEL TERRANE

UPPER TRIASSIC

TAKLA GROUP

uTrtk — **SHONEKTAW FORMATION:** *augite porphyry, feldspar porphyry, tuff, agglomerate, pyroxenite, minor shale, siltstone and greywacke*

LATE TRIASSIC

LTrgd — *Hornblende granodiorite, hornblende diorite; commonly foliated; may be in part Early Jurassic age*

LTrfgd — *Hornblende granodiorite, hornblende diorite; commonly foliated; may be in part Early Jurassic age; includes irregular bodies of **EKg** and **MJgd***

LTru — **TURNAGAIN ALASKAN ULTRAMAFIC COMPLEX:** *dunite, wherlite, clinopyroxenite, hornblendite, serpentinite*

HARPER RANCH SUBTERRANE

PERMIAN

P3vs — *Green chert, tuff, basalt, volcaniclastics*

PENNSYLVANIAN TO PERMIAN

PuP3lv — **HUNTERGROUP VOLCANICS:** *augite (-hornblende-plagioclase) porphyry, lapilli tuff, tuffaceous sandstone, limestone, minor chert and argillite*

MISSISSIPPIAN TO PERMIAN

MP3s — *Black chert, sandstone, carbonate*

MP3b — *Pillow basalt*

DEVONO-MISSISSIPPIAN

DM3c — *Black banded chert*

DEVONIAN TO PERMIAN

DPu — *Undivided mafic to felsic volcanics, tuff, chert, phyllite, argillite, quartz-sericite schist, crystalline limestone*

CACHE CREEK TERRANE

CACHE CREEK ASSEMBLAGE (PJKn - CPu)

UPPER PERMIAN TO JURASSIC

PJkn — **KUTCHO AND INKLIN FORMATIONS:** *mainly undifferentiated sediments, lesser volcanic rocks, possibly with older Cache Creek rocks*

PJs — *Dark grey to black argillite, ribbon chert and cherty argillite with lesser volcanic sandstone or wacke with quartz and argillite chips, argillaceous limestone (equiv. to basal PT1?) and minor siliceous tuff and vesicular basalt. Emerald and may include unmapped Teslin Formation (PT1)*

UPPER PERMIAN TO LOWER TRIASSIC

PTrK — **KUTCHO FORMATION:** *basaltic to rhyolitic schist (flows, breccia, crystal tuff); fine grained volcanic sediments, basic schist, conglomerate (may be basal Inklin Formation in part)*

PTrcg — **KUTCHO FORMATION:** *conglomerate*

PTrt — *Trondhjemite*

LOWER CARBONIFEROUS TO TRIASSIC

CPk — **KEDAHDA FORMATION:** *chert, cherty argillite; minor argillite, siltstone, and volcanic sandstone; minor volcanic rocks and metamorphosed equivalents*

CPml — *Limestone interbedded and associated with unit CPk; structurally interleaved with ultramafics and basaltic rocks*

CPvev — *Sediments (CPk) and mafic volcanics (CPu), undivided*

PERMIAN

P1t — **TESLIN FORMATION:** *massive limestone, minor mafic volcanics*

P1fr — **FRENCH RANGE FORMATION:** *undivided: basalt, tuff, agglomerate, minor chert, argillite*

CARBONIFEROUS (UPPER MISSISSIPPIAN) TO PERMIAN

CPn — *Nakina mafic volcanic breccia, ocean island basalt and MORBs, locally metamorphosed to greenstone and amphibolite grade*

CPmg — *Gabbro; fine to pegmatitic foliated gabbro; pyroxene diorite; may include small serpentinite bodies minor limestone, chert and argillite*

CPu — *Oceanic crustal ultramafic rocks, peridotite, dunite, pyroxenite, generally serpentinized; locally includes pods of nephrite jade and small bodies of listwanite, rodingite and talc*

SLIDE MOUNTAIN TERRANE

DIVISION I: LOWER MISSISSIPPIAN TO PERMIAN SEDIMENTARY AND VOLCANIC ROCKS

PENNSYLVANIAN-PERMIAN

PsPls — *Green, red and grey chert, argillite, phyllite*

MISSISSIPPIAN

Mls — *Black, grey and green argillite, quartz-chert sandstone, grey, green and black chert, calcarenite, minor tuff, siliceous exhalite; **M1si** includes up to 10 per cent diabase*

MISSISSIPPIAN TO PERMIAN

MPlgb — *Gabbro, fine-grained*

MISSISSIPPIAN TO PERMIAN

MPls — *Chert, argillite, calcarenite, sandstone: **M1s** and **PsPls** undivided*

DIVISION II: SUPRACRUSTAL UNITS

PENNSYLVANIAN-PERMIAN

PnP2vs — *Basalt flows and tuffs (including maroon, red and green), volcaniclastics, variegated chert, polymictic breccia; phyllite, argillite, quartz-chert sandstone, rhodonite, diabase*

MISSISSIPPIAN TO PERMIAN

MP2vs — *Undifferentiated **M2vs** and **PnP2vs***

MISSISSIPPIAN

M2vs — *Basalt, diabase, grey and green chert, black, grey and green argillite, calcarenite, quartz-chert sandstone, chert-pebble conglomerate*

RAPID RIVER TECTONITE: YUKON-TANANA TERRANE?

PRE-MISSISSIPPIAN

DMmt — *Tectonite, siliceous and locally calcareous; gneissic, in part mylonitic, thinly banded, strongly foliated, locally micaceous; includes metasedimentary and metaigneous rocks including intermediate and felsic volcanic rocks, tuff, limestone, grit and chert*

DMmts — *Sedimentary protoliths*

DMmtv — *Volcanic protoliths*

EARLY PERMIAN

EPgr — **FOUR MILE PLUTON:** *granite, coarse grained; megacrystic, biotite-bearing*

EPd — **NIZI CREEK PLUTON:** *diorite and gabbro, hornblende-bearing, foliated*

EPt — *Tonalite, with rectangular plagioclase phenocrysts, unfoliated*

DEVONIAN AND MISSISSIPPIAN

DMgd — *Granodiorite, foliated, gabbro, agmatite*

DEVONIAN TO PERMIAN

DPd — *Foliated hornblende diorite*

DPgd — *Granodiorite*

DPam — *Amphibolite*

DPu — *Ultramafite*

ANCESTRAL NORTH AMERICA

PENNSYLVANIAN

Pnch — *Banded orange (salmon) and green chert*

MIDDLE MISSISSIPPIAN TO PERMIAN

mMPs — *Red, salmon and green, grey, black chert and argillite, minor calcarenite, rare amygdaloidal basalt*

UPPER DEVONIAN TO LOWER MISSISSIPPIAN

DME — **EARN GROUP:** *slate (variably graphitic, calcareous, pyritic), siltstone, sandstone, conglomerate, porcellanite, light green tuffaceous shale ; dark grey limestone, siliceous and baritic exhalite*

MIDDLE TO UPPER DEVONIAN

mDM — **MCDAME GROUP:** *limestone, dolostone, limestone-dolostone breccia; in part subdividable into upper member: light grey, platy, limestone, with local karst breccia; lower member: dolostone, dark grey felsd, limestone, carbonate breccia*

SILURIAN AND DEVONIAN

SDls — **SANDPILE, RAMHORN AND MCDAME GROUPS (undivided):** *undivided dolostone, dolomitic sandstone, limestone, shaly dolostone, minor calcareous siltstone and shale*

SILURIAN TO LOWER DEVONIAN

SDn — **RAMHORN GROUP:** *dolomitic quartz arenite, quartzite, dolostone, limestone*

ORDOVICIAN TO LOWER DEVONIAN

ODS — **SANDPILE GROUP:** *dolostone, cherty dolostone, dolostone breccia, limestone, dolomitic quartz arenite, siltstone, quartzite; in 104I Sandpile is entirely lower Silurian in age*

ORDOVICIAN TO DEVONO-MISSISSIPPIAN

ODM — **ROAD RIVER AND EARN GROUPS (undivided):** *black, calcareous shale, slate, phyllitic slate, minor limestone, siltstone and pebble conglomerate*

ORDOVICIAN TO SILURIAN

OSRR — **ROAD RIVER GROUP:** *black, commonly limy slate, locally graptolitic; argillaceous limestone (Cassiar Terrane)*

UPPER CAMBRIAN AND ORDOVICIAN

CmOKR — **KECHIKA AND LOWER ROAD RIVER GROUPS (undivided):** *siltstone, shale, argillaceous limestone, calcareous shale, limestone*

CmOv — *Greenstone; age uncertain*

CAMBRIAN AND ORDOVICIAN

CmOK — **KECHIKA GROUP:** *limestone, argillaceous limestone, pale coloured calcareous slate, phyllitic limestone, calcareous phyllite, pyritic and carbonaceous slate and shale; may locally include dark slates of Road River Group*

LOWER CAMBRIAN

ATAN GROUP (lCmR - lCmAm)

lCmR — **ROSELLA FORMATION:** *limestone, dolostone, calcareous shale, brown, grey and green-grey slate*

lCmB — **BOYA FORMATION:** *quartzitic sandstone, siltstone, slate and phyllite*

lCmAm — *Undivided micaceous quartzite, mica schist, minor crystalline limestone, may include some Steikuz Formation*

NEOPROTEROZOIC TO LOWER CAMBRIAN

HCmSB — **STEIKUZ AND BOYA FORMATIONS (undivided):** *quartzitic sandstone, quartzite, pebble conglomerate, siltstone, slate and shale*

NEOPROTEROZOIC

INGENIKA GROUP

HSt — **STEIKUZ FORMATION:** *interbedded chloritic sandstone, shale, limestone, phyllite, siltstone and quartzite; includes distinctive green and maroon to red shale members; locally may include some Boya formation*

Hlt — **ESPEE FORMATION:** *crystalline limestone, sandy limestone, dolostone, grey slate*

HSwT — **SWANNELL AND TSAYDIZ FORMATIONS (undivided):** *upper part, mainly sericite and chlorite phyllite, schist, calcareous phyllite and phyllitic limestone, siltstone; lower part, mainly micaceous quartzite, mica schist and quartz pebble conglomerate*

Hgn — *Lit-par-lit gneiss; garnet, staurolite, sillimanite and andalusite schist; abundant granitic sills; amphibolite; probably mainly metamorphosed Swannell Formation*

CASSIAR TERRANE (NORTH AMERICAN ROCKS)

CAMBRIAN? TO MISSISSIPPIAN

CmMq — *Fine grained siliciclastic rocks, chert, quartzite , limestone, schist, hornfelsed and variably metamorphosed; local barite exhalites. In part Earn Group equivalents*

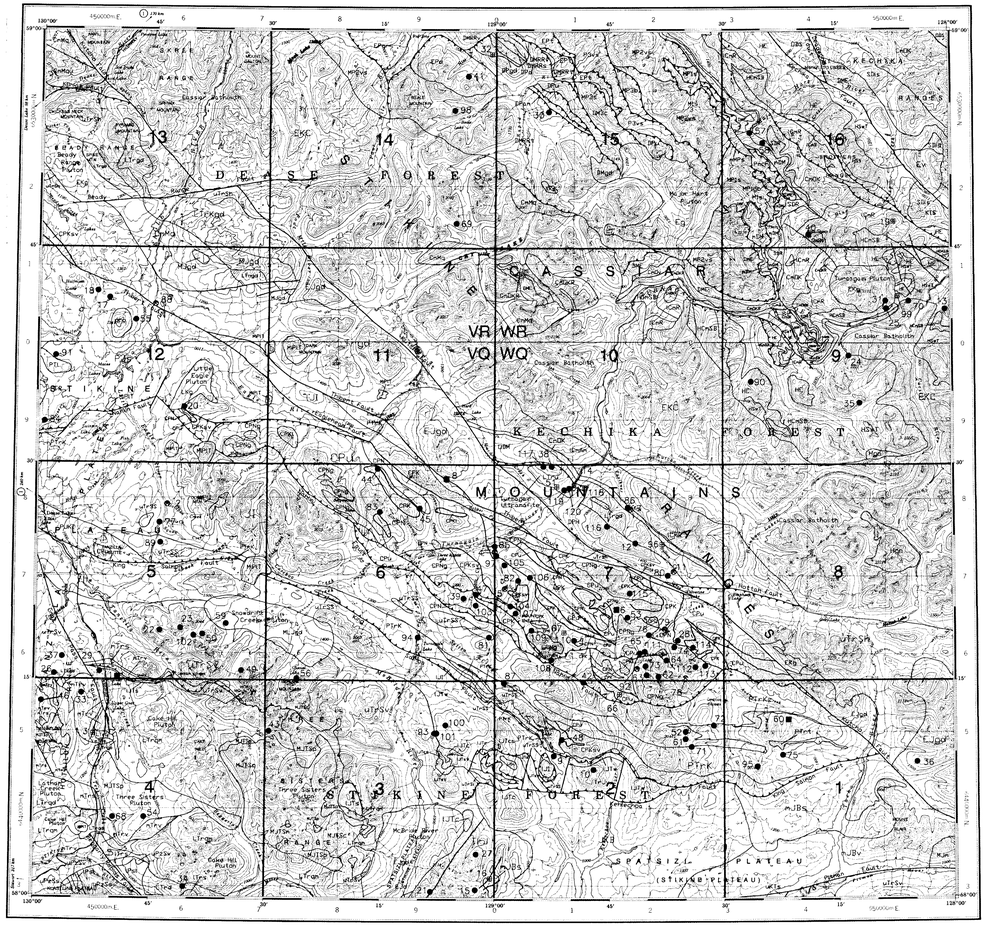
CmMqu — *Western facies: chert, quartzite, hornfels, greenstone, metadacite. May be structurally equivalent to Slide Mountain terrane*

Geological map and legend compiled from:

Gabrielse, H. (1996): Geology of Cassiar Lake (104J/E) and Cry Lake (104I) Map Areas, North-Central British Columbia; Geological Survey of Canada, Open File 2779, Scale 1:50,000.

Mihalynuk, M., Bellefontaine, K., Brown, D., Logan, J., Nelson, J., Legun, A., and Diakow, L. (1996): Digital Geology, Northwest British Columbia (NTS 94E,L,M; 104F,G,H,I,J,K,L,M,O,P); B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1996-11.

Positions of all geological contacts are approximate. In the case of an apparent disagreement between an occurrence's geological location on the map and its stratigraphic setting given in the MINFILE documentation, the latter should be given priority.



OCCURRENCES DELETED FROM PREVIOUS MAP RELEASES

OLD NUMBER	OLD NAME	REASON FOR DELETION
104I 012	TNA	Same as 104I 009 and 104I 010
104I 022	KAC	No economic mineralization
104I 041	JOHNNY 1	Same as 104I 040
104I 045	ASB 4	Combined with 104I 044
104I 050	MAY	No economic mineralization
104I 061	FLAT	No economic mineralization
104I 061	JEFF	Combined with 104I 060
104I 062	LIZ	Combined with 104I 060
104I 073	SAMB	Combined with 104I 078
104I 075	SUL	Combined with 104I 028 (same occurrence)
104I 085	GARNIERITE	No economic mineralization
104I 086	GOLDPAN CK. PLACER	Same as 104I 002
104I 087	CLEO	No economic mineralization
104I 088	KEHLECHOA R	Same as 104I 048

COMMODITY LEGEND

CODE INDEX		COMMODITY INDEX	
AB	Asbestos	Asbestos	AB
AG	Silver	Chromium	CR
AU	Gold	Copper	CU
CR	Chromium	Germanes	GE
CU	Copper	Gold	AU
FE	Iron	Iron	FE
GS	Gemstones	Jade/Nephrite	JD
JD	Jade/Nephrite	Lead	PB
LS	Limestone	Limestone	LS
MA	Magnetite	Magnetite	MA
MO	Molybdenum	Molybdenum	MO
NI	Nickel	Nickel	NI
PB	Lead	Palladium	PD
PD	Palladium	Platinum	PT
PT	Platinum	Silver	AG
TC	Talc	Talc	TC
WO	Tungsten	Tungsten	WO
ZN	Zinc	Zinc	ZN

Ministry of Energy, Mines and Petroleum Resources
GEOLOGICAL SURVEY BRANCH

Geological Survey Branch

MINFILE MAP
NTS 104I
CRY LAKE

This MINFILE release researched and compiled by:
G. Payie, G. Owsiacki and D. Jakobsen

Date Revised: January 1996

Scale 1:250 000

0 5 10 15 20 25
kilometres

Total Number of Mineral Occurrences: 120

Status
- Producer
- Past Producer
- Developed Prospect
- Prospect
- Showing

104O	104P	094M
104J	104I	094L
104G	104H	094E

MAP LEGEND - 104I

MINFILE NUMBER	NAME	COMMODITIES
001	GNAT PASS	CU
002	GOLDPAN CREEK	AU
003	DALVENIE	CU AU ZN
004	WHEATON (BOULDER) CREEK	AU
005	ALICE SHEA CREEK	AU
006	ALICE	AU
007	FALCNER (PALMER) CREEK	AU
008	EAGLEHEAD	CU AU MO AG
009	ANT	CU ZN
010	ANT	CU
011	BULLION CREEK	AU
012	U	FE MA
013	CANYON	WO
014	TURN (DISCOVERY)	CU CR WO MO FE
015	CU	CU AG
016	CM	CU AG
017	EYE 41	AB
018	JAY	AB
019	MARCO	CU PB AU ZN
020	MAC	CU WO
021	JOY 94	CU AG
022	TANZILLA 1	ZN CU PB AG AU
023	TANZILLA 3	CU AG AU PB ZN
024	TWO (CUB)	CU
025	EWE	WO MO
026	KAY 49	CU
027	STAR	CU
028	MOS	CU AG FE MA
029	MOSS	FE
030	GB	CU AG NI AU AB
031	HERB	PB ZN AG
032	MEL	AU AG ZN PB CU
033	MEL	CU
034	MAT	CU PB ZN
035	RYE	WO MO
036	RIN	CU MO
037	RIN 19	CU
038	AGNES	CU
039	JJR	CR AB
040	JOHNNY	WO MO PB ZN CU
041	RN	PB ZN CU AG AU
042	AT	CU
043	FAT	CU MO
044	ASB	AB CU
045	GREENROCK	JD
046	CROWN	CU
047	KEH	CU AG NI FE MA
048	KEHLECHOA R	JD AB
049	JOYCE	MO CU
050	T-4	ZN CU PB AU
051	NORTHWEST	CU NI MO
052	ROADCREST	CU
053	ROAD	AB JD GS
054	LOUISE	CU
055	MOD	CU
056	MODC	CU
057	ERNA	AG CU
058	NORMA	AG CU
059	MUP	MO CU
060	KUTCHO CREEK	CU AG AU PB
061	RUBYSH	PB AG CU AU
062	CWA	JD GS
063	BB	JD GS
064	NCW	JD GS
065	JAM 6	JD GS
066	JM	JD GS
067	KING KONG	JD GS CU AG
068	SCR	CU ZN PB MO
069	BARTLE	MO
070	BOW	CU
071	BOW	CU
072	KUTCHO	CU ZN AG
073	BAGGINS	JD GS
074	LILY	CU
075	CYK	CU ZN
076	CYE	CU
077	CASTLE	CU ZN
078	KUTCHO CREEK JADE	JD GS
079	KUTCHO CREEK JADE	JD GS
080	P.M.L. 1710	JD GS
081	FALCON	AG CU PB ZN
082	WHEATON CK ASBESTOS	AB
083	WHEATON CREEK	CU AB
084	SERPENTINE CREEK	JD
085	WHEATON CREEK JADE	JD
086	BOW 25	ZN PB
087	SETTLE CREEK	AU
088	TANZILLA 2	CU
089	TANZILLA BUTTE	LS
090	TURNAGAIN RIVER	LS
091	MOOSE LAKES	LS
092	PROVENCHER LAKE	JD GS
093	TUNA	CU AG PB ZN CU
094	TUPIN	PB
095	KASS	CU ZN AG AU
096	DINAH	PB ZN AG
097	JED	AU TC CU
098	JOE	CU
099	ELDA	WO MO PB AG
100	D4	AU AG PB ZN
101	D3	AU AG PB ZN CU
102	THORN 75	CU ZN
103	TWO MILE JADE	JD GS
104	ALICE SHEA JADE	JD GS TC
105	WHEATON JADE	JD GS
106	WHITE PIPON JADE	JD GS
107	PIP	CU AG
108	KING MOUNTAIN	JD GS
109	PRB	CU AU AG PB
110	SPRING	CU
111	PWT 1	JD GS
112	PWT	CU AU AG
113	PWT	AU AG
114	WWS	CU
115	LU	AU CU
116	LU 2	CU
117	DAVIS 2	CU
118	CLIFF	CU NI PD PT
119	HORSETRAIL	NI CU
120	FISHING ROCKS	CU