

**GEOLOGICAL LEGEND**

**STRATIFIED ROCKS**

**UPPER CRETACEOUS TO EOCENE**

**SUSTUT GROUP**

- ITB** **BROTHERS PEAK FORMATION:** conglomerate, sandstone, siltstone and acid tuff, minor coal
- UKT** **TAWOG CREEK FORMATION:** conglomerate, sandstone and siltstone; minor coal

**JURASSIC**

**MIDDLE AND UPPER JURASSIC**

**BOWSER LAKE GROUP**

- muJL** **UNDIVIDED VOLCANICS AND SEDIMENTS:** basalt and andesite flow, breccia, tuff, lahar, sandstone, siltstone, argillite and conglomerate; minor coal
- Callovian to Lower Oxfordian
- muJA** **ASIMAN FORMATION:** argillite and siltstone; minor sandstone and tuff

**LOWER AND MIDDLE JURASSIC**

**HAZELTON GROUP**

- ImJH** **UNDIVIDED (SMITHERS FORMATION, NIKITIVA FORMATION, CARLUTHERS FORMATION AND TELKWA FORMATION):** sandstone, argillite, siltstone, greywacke, sandstone, tuff, basalt, andesite flow, breccia, pillow breccia and minor limestone
- Sinemurian to Middle Bajocian
- IJT** **TELKWA FORMATION:** calcalkaline basalt, andesite, dacite and rhyolite flow breccia, tuff and lahar, intraclastic conglomerate, conglomerate, sandstone and siltstone, polymict conglomerate with Asitka, Takla and granitic clasts

**MIDDLE TRIASSIC - LOWER JURASSIC**

**UPPER TRIASSIC**

**TAKLA GROUP**

- Upper Carnian to Middle Norian
- Belt west of the Ingenika - Pinchi fault zone
- uTM** **MOOSEVALE FORMATION:** andesite and basaltic volcanic conglomerate, breccia, sandstone, tuff and argillite
- uTSM** **SAVAGE MOUNTAIN FORMATION:** basic augite porphyry basalt flow, breccia, pillow breccia, tuff and interbedded biotite porphyry
- uTD** **DEWAR FORMATION:** tuff, sandstone and argillite; minor breccia
- uTU** **UNDIVIDED (MOOSEVALE, SAVAGE MOUNTAIN AND DEWAR FORMATIONS)**

**MIDDLE TRIASSIC - LOWER JURASSIC**

**TAKLA GROUP**

- Belt east of the Ingenika - Pinchi fault zone
- TJV** **VOLCANICS:** basic to intermediate flow, breccia and tuff, green phylites and phyllitic schist, minor sediments
- TJS** **SEDIMENTS:** argillite, tuff, sandstone, phyllite and phyllitic schist, limestone and siltstone
- PJS** **SITLIKA ASSEMBLAGE:** sericite, chlorite, siliceous schist and phyllite, minor marble; includes the Asitka, Takla and Hazelton groups and possibly parts of the Bowser Lake Group

**PERMIAN**

**PA**

- ASITKA GROUP:** basalt, rhyolite, tuff, chert, argillite and carbonate

**PENNSYLVANIAN AND PERMIAN**

**PPt**

- LAV RANGE ASSEMBLAGE:** basic volcanics, calcareous phyllite, quartzite and limestone

**PPC**

- CACHE CREEK GROUP:** siliceous phyllite, metachert, marble, greenstone and amphibolite

**UPPER PROTEROZOIC**

**INGENIKA GROUP**

- PE** **ESPEE FORMATION:** limestone, locally oolitic and psalitic; minor dolostone
- PT** **TSAYOZ FORMATION:** sericitic phyllite
- PS** **SWANELL FORMATION:** quartz feldspathic, gritty sandstone, siltstone, shale and conglomerate; metamorphic equivalents from chlorite to kyanite grade

**INTRUSIVES**

**EOCENE**

**ETqm**

- KASTBERG INTRUSION:** quartz monzonite, quartz-eye porphyry and felsite

**LATE CRETACEOUS**

**LKgd**

- AXELGOLD INTRUSIONS:** layered gabbro and minor plugs of gabbro and diabase

**EARLY CRETACEOUS and (?) LATER**

**EK**

- JENSON PEAK BATHOLITH, JOHANSON CREEK STOCK AND KLYIA CREEK BODY:** quartz monzonite, quartz diorite, granite and granodiorite

**LATE TRIASSIC TO EARLY CRETACEOUS (MAINLY EARLY JURASSIC)**

**EJ**

- HOGEM INTRUSIVE COMPLEX, FLEET PEAK PLUTON, JOHANSON LAKE STOCK, DARB LAKE STOCK, ASITKA PEAK STOCK AND CONTEMPORANEOUS INTRUSIVE BODIES:** quartz monzonite, monzonite, diorite, quartz diorite, quartz monzoniorite and leucocratic porphyry plugs

**LATE TRIASSIC**

**AS**

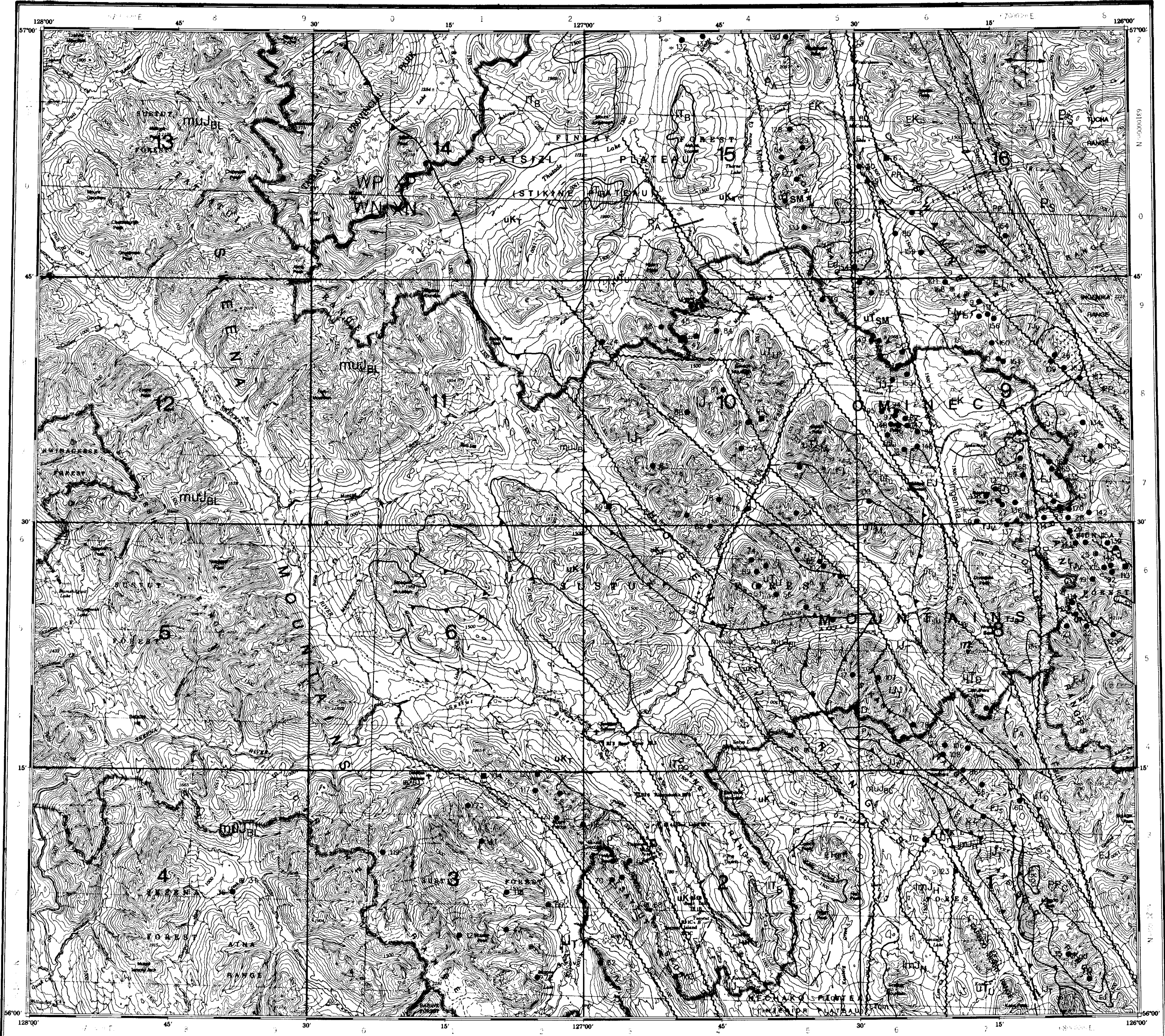
- ALASKAN-TYPE ULTRAMAFICS:** gabbro, hornblende, pyroxenite and dunite

**LATE PALEOZOIC and (?) TRIASSIC**

**AL**

- ALPINE ULTRAMAFICS:** serpentinite, serpentized peridotite and greenstone

Geological legend and base compiled and simplified from:  
 Richards, T. A. (1975). McConnell Creek Map Area (44DE) Geology, Geological Survey of Canada Open File 162, 1:250 000.  
 Eisbacher, G. H. (1973). Sedimentary History and Tectonic Evolution of the Sustut and Sifton Basins, North-central British Columbia, Geological Survey of Canada Paper 73-31, Map 14-1973, 1:250 000.



**BC**  
 Ministry of Energy, Mines and  
 Petroleum Resources

Geological Survey Branch

**MINFILE MAP  
 NTS 094D  
 MCCONNELL CREEK**

This MINFILE release researched and compiled by:  
 D.M. Melville

Date Revised: September 1992  
 Scale 1:250 000

Total Number of Mineral Occurrences: 171

Status

- ⊗ Producer
- ⊙ Past Producer
- Developed Prospect
- Prospect
- Showing

104H	094E	094F
104A	094D	094C
103P	093M	093N

**MAP LEGEND - 094D**

MINFILE NUMBER	NAME	COMMODITIES
001	MOT 1	AU AG CU PB ZN MO WO
002	CAN	CU PB ZN
003	BEANCK	AU
004	D.S.	CU
005	MARMOT	AU AG CU PB
006	GERLE GOLD	AU AG CU PB
007	MCCONNELL CREEK	PT
008	INGENIKA RIVER	AU PT
009	WELSH CREEK	AU AG
010	GURTZYK	AU AG CU PB
011	ARLEY	AU AG
012	SELBY	AU AG
013	BRUCE	AU AG
014	GINGER B	AU AG
015	CROY	AU AG MO ZN
016	YELLOW CREEK	ZN PB AG AU
017	ASTKA RIVER	ZN CU AG ZN AU
018	CAR	CU
019	KLI	CU
020	RINGO	MO CU AG
021	DORTATTELLE	CR
022	MESQUINA RIVER	AU CU PE
023	HENRICO	AU
024	OD	AU
025	LEB-SOUP	AU AG CU FE MA
026	WREDE CREEK CHROMITE	CR
027	GOLDWAY	AU AG PB
028	INDEPENDENCE	AU AG CU PB ZN
029	BAND	AU AG CU PB ZN
030	KING GEORGE	AU CU PB MO
031	TOMMY JACK	AU AG CU PB ZN CU
032	FRED	CU AG AU
033	DAVE	AU AG
034	RED	CU AU MO
035	ADD-GOLD	CU
036	BEAVER CREEK	CU
037	BURNITE	CU MO
038	BOB BOWL	CU
039	SUSTUT COAL	CU
040	COAL BOWL	CU
041	SUSTUT	AU AG CU PB MO
042	MOT 2	AU AG
043	DEWAR PEAK	CU
044	ICE	CU
045	PRE	CU
046	MOOSEVALE	CU MO
047	BEAR	CU
048	BEAR	CU
049	BEAR	CU
050	BEAR	CU
051	BEAR	CU
052	PARK 2	CU AG
053	FANZ RIDGE	CU
054	FOND	CU
055	RED COPPER	CU
056	HUMPY	CU
057	A-CHALCOITE	CU AG
058	MAGNUM	CU PB AG
059	GALSTRA RIDGE	AU
060	CARBONIFEROUS CREEK	CU MO PB ZN AU
061	JAKE NORTH	CU MO AG
062	JAKE	CU
063	SUSTUT	CU
064	AR	CU MO
065	DAY	CU AU MO ZN
066	ARP	CU
067	COCODA	AU AG CU PB
068	BEAR LAKE	CU MO AU
069	HORN	MO CU
070	PETER 2	AU AG CU
071	FAT	AU AG
072	IC	AU AG
073	IC	AU AG
074	EIGHT	CU
075	FLUFF	CU ZN
076	LIZ	CU AG PB
077	SRECH	CU ZN
078	ROY	AU CU
079	GO	CU
080	GERLE GOLD NORTH	AU AG CU PB
081	E	CU
082	WILLOW	CU
083	GRINLEY ORK	CU
084	SABR	CU
085	NIKOS	CU
086	PT	CU
087	A E	CU MO
088	SANLOS	CU
089	TE	CU
090	ARD	CU
091	DAVE COPPER	AU AG CU PB ZN
092	LADY DIANA	CU
093	MAR	CU
094	ASTKA 29	CU
095	ASTKA 33	CU
096	ASTKA 39	CU
097	ASTKA 40	CU
098	ASTKA 40	CU MA FE
099	ASTKA 40	CU
100	SIF	CU

**MAP LEGEND - 094D**

MINFILE NUMBER	NAME	COMMODITIES
101	BRID	CU MO
102	A42	CU AG AU
103	RED SPING	CU AG PB
104	SOUTH SOUP	AU AG CU
105	MONA JEAN	AU CU FE MA
106	BANDY	CU
107	LAKE	CU AG
108	NW	TI CU
109	PGM	CU
110	SHRED	CU
111	NORMAN	CU WO
112	KLYIA	MO AG
113	MCCONNELL BERYL	BE
114	BRECCIA	CU AG AU
115	PETKA	CU AG AU
116	TORO	CU AG ZN
117	GOLD 88	AU AG PB ZN CU
118	JAKE SOUTH	CU AG PB
119	COPPER	CU MO
120	MP	CU MO
121	FORNS	CU AG ZN PB
122	TOM	CU
123	LESHMAN	MO
124	KELLY	AU
125	THORNE	AU AG ZN AU
126	THORNE LAKE	AU AG ZN AU
127	WGA	CU AG
128	WGA	CU AG
129	WGA	CU AG
130	SEF	CU AG ZN
131	THORNE CREEK	CU AG
132	NOR	CU AG ZN
133	NOR	CU AG
134	LAV CREEK	AU AG
135	DARB	CU MO
136	GLACIER	CU
137	JONAN	AU
138	JAN	AU
139	AUPPER	AU AG PB ZN MA
140	KL	CU
141	MAL	AU AG
142	DEWAR	CU
143	CRITTER	CU
144	MORANE	CU
145	KAREN CREEK	AU AG CU
146	ASTKA LAKE	CU AG AU
147	A-1	CU AG MO
148	ASTKA 10	CU AG AU
149	COPPER KING	CU AG AU
150	WGA	CU
151	ING	CU
152	ING	CU
153	ING	CU
154	OVERSTALL	CU
155	WOLFRY	CU
156	FOX	CU
157	HOLYND	CU
158	HAT	CU AU MO
159	MIDAS	AU
160	FISHER	AU CU PB AG
161	INGE	AU AG CU
162	TUNDRA	CU MO
163	GRAPES	CU
164	JOHN	CU
165	JOHN 4	AU CU PB ZN
166	JOHN 4	CU AU
167	JOHN 2	CU
168	JOHN 1	CU
169	JOHN 3	CU
170	JOHN 9	CU
171	JOHN 11	CU AU AG
172	CARBONIFEROUS PHS	CU

CODE INDEX	COMMODITY INDEX		
AG	Silver	BE	Beryllium
AU	Gold	CR	Chromium
BE	Beryllium	CU	Copper
CB	Coal	CU	Copper
CE	Chert	CU	Copper
CL	Chlorium	CU	Copper
CU	Copper	FE	Iron
FE	Iron	MA	Magnesium
MA	Magnesium	MO	Molybdenum
MO	Molybdenum	PT	Platinum
PB	Lead	SI	Silicon
PT	Platinum	TI	Titanium
SI	Silicon	WO	Tungsten
TI	Titanium	ZN	Zinc
WO	Tungsten		
ZN	Zinc		