LEGEND

CENOZOIC

QUATERNARY

Q

Qm — Mackenzie Delta

Qv — MILES CANYON BASALT

TERTIARY

T — Tv

MESOZOIC

CRETACEOUS

K — Kv — Includes BUCKINHORSE FORMATION of S.E. Yukon

JURASSIC AND CRETACEOUS

JK — JKs

JURASSIC

TRIASSIC

Tr

Tr — Trv — Includes MUSH LAKE GROUP of S.W. Yukon

PJs — PJ — Reno-Tombstone belt, central Yukon

PERMIAN

P

Ps — Pv, Psv — 'CRENE CREEK' rocks

CARBONIFEROUS AND PERMIAN

CP — Includes MARTSON FORMATION of S.E. Yukon

CARBONIFEROUS

PALAEOZOIC

DEVONIAN

D — DM — DMv

SILURIAN

S — SD

ORDOVICIAN AND SILURIAN

OS — Includes SUMDUM FORMATION of S.E. Yukon and S.W. Mackenzie — €S

ORDOVICIAN

CAMBRIAN

€ — Mainly lower Cambrian rocks

PROTEROZOIC

HADRYNIAN

H

Hs — Hv, Hsv Hn — 'GRIT UNIT' (in part)

HELIKIAN(?) AND HADRYNIAN

HH — Includes KATHERINE GROUP, TINDER GROUP and MACKENZIE MOUNTAIN FORMATION of Mackenzie Mountains, Yukon

HELIKIAN(?) OR OLDER(?)

He — Maybe, in part, equivalent to HAPPTON FORMATION of Northern Mackenzie Mountains

INTRUSIVE ROCKS

A — At, Aat

B — }

A — As

TrK — TrKv — Mainly south-central Yukon, includes LEWES RIVER GROUP, HUTSHI GROUP, DESMOINES GROUP, LOR-ENZE VOLCANICS, TANTALUS FORMATION, MT. NJAUGEN GROUP

PTrv

PALAEOZOIC AND OLDER(?)

Pz

Pzn — 'YUKON GROUP'

Pkn — Pknv — 'KLONDIKE SCHISTS'

Psn — Includes BIG SALMON COMPLEX of South-central Yukon

Pin — DEFEELD KNOBS COMPLEX of S.W. Yukon; may be, in part, Mesozoic

TQ — Arctic Coastal Plain, Old Crow Plain, and parts of Peel Plateau Plain and Bonnet Plume Basin

KT

Mv — Volcanic rocks of uncertain age; may be, in part equivalent to PTrv.

Ap — Old Crow Basalt, Mt. Eetza and Mt. Sedgwick, Northern Yukon

DO — In part equivalent to OS; in Richardson Upld. may include Mackenzian rocks; includes ROBINSON FORMATION and HERCHMER FORMATION

€D

€O — In part equivalent to OS, in S.W. Mackenzie

LITHOLOGY

Time-stratigraphic designations without lower case modifiers indicate dominantly unmetamorphosed or only locally metamorphosed sedimentary rocks

Glacial, fluvioglacial and alluvial deposits

Partly consolidated and unconsolidated river material; modern deltaic deposits; sand, silt, mud

Slate, argillite, quartzite, phyllite; some schist ..... s

Schist, quartzite; some amphibolite, some gneissose rocks; mainly greenschist facies ..... m

Schist, gneiss and gneissic igneous rocks; generally above greenschist facies ..... gn

Mainly volcanic rocks V

Interstratified volcanic and sedimentary rocks ..... sv

Acidic intrusive rocks, generally granodioritic in composition — A

Syenitic intrusive rocks ..... As

Porphyritic granitic rocks (in part) ..... Apt

Porphyritic syenitic rocks (in part) ..... Ast

Porphyritic granite, granite ..... Pp

Gabbro, diorite, 'greenstone' ..... B

Ultramafic and related mafic intrusive rocks ..... ◢

METALLOGENIC SYMBOLS

- Heavy metal stream occurrence
- Lode occurrence
- Placer occurrence
- Producing mine

Au, Ag — Principal element(s)

(Zn, Cd) Accessory elements

Gyp — Gypsum

Ba — Barite

Au — Gold; Ag - Silver; Cu - Copper; Pb - Lead; Zn - Zinc; W - Tungsten; Mo - Molybdenum; Sb - Antimony; Cd - Cadmium; Sn - Tin; Fe - Iron; Co - Cobalt

GEOCHRONOLOGY

(K-Ar ages in millions of years)

102 — Igneous rock

222 — Metamorphic rock

199 — Igneous material in sedimentary rock

- Biotite
- Muscovite
- Hornblende

●/○ Pair

Glacier-covered areas of S.W. Yukon

Geological contact (exposed, concealed, interpreted)

Normal faults; major movement

Thrust faults (dip in direction of teeth)

Metamorphic boundary (approximate)

Limit of mapping

INDEX OF PROPERTIES AND DEPOSITS

YUKON

1. British Mountain Syndicate
2. Bacon Creek
3. Snake River (Coal Exploration)
4. Hammett (Beaver River, Bear River)
5. Slab Mountain
6. Bear River (Coal Exploration)
7. Silver Hill
8. Grey Copper Hill
9. Mickey Hill
10. Mount Cameron
11. Speed-Up Hill
12. Number Hill
13. Arco Res
14. Mann Lake
15. Haer River
16. Rae and Mt. Kamey
17. Preliminary Mountain
18. Quartet, Faun Group
19. Silver City
20. Mount Hyde
21. Cathy
22. Skeff Creek
23. Clear Mine (Lucas-Rhodes Corp.)
24. Pan
25. Dalyrmple Goldfields
26. Virgin No. 2
27. CCC (Mosquito Creek)
27A. Klondike Lode Gold
27B. Barnegat Creek and Tributaries
27C. Hunker Creek and Tributaries
28. Lone Star
29. Mt. Monroe Creek
30. King Solomon Dome
30A. Dominion Creek and Tributaries
30B. Sulphur Creek and Tributaries
31. Bluff Creek
32. Hunkerer
33. Schaefer and Carbon Creeks
33A. Upper Indian, Hunker and Montana Creeks
34. Dublin Gulch
34A. Happy Creek and Dublin Gulch
35. Mt. McKenzie
36. Thanksby
37. Elsa Mine (United Keno Hill Mines)
38. Hector-Calumet Mine (UKHM)
39. Keno No. 9 Mine (U.K.H.M.)
40. Klondike and Flatbread Claims
41. Homestake
42. Mt. Horton
43. Emerald Lake
44. Mustang (Aware Inc.)
45. Tom (Anderson Bay Mining and Smelting)
46. Casino (Au, Pd)
46A. Canadian Creek
46B. Casino (Cu, Mo)
47. Rude Creek
48. Resource Creek
49. Mt. Prompt (California Mine)
50. Tintic Hill
51. Granite Mountain
52. Bonanza King
52A. Five Finger Mine
53. Clear Creek - Dennis Lakes
54. Little Salmon Lake
55. Flora Mine (Rare) (Mining Corp. of Canada Ltd. - Consolidated Rambler Mines Ltd.)
56. Hyproto Creek (Yukon Mines Ltd.)
57. Stone Creek
58. Quartz Creek (Yukon Mines Ltd.)
59. Swim (Kerr Addison Mines)
60. Tintina Trench
61. Reported occurrence
62. Traffic Mountain
63. Aberdeen
64. Reported occurrence
65. Grant Mountain
66. Reported occurrence
67. Metra (Canada Ltd.)
68. White River (Silver City Mines)
69. Rabbit Creek
70. Reported occurrence
71. Quill Creek (Lobtown)
72. Quill Creek Copper
73. Tarsvar
74. Tetramoorside Creek
75. Burwash Creek
76. Dickson Creek
77. Bullion and Shaw Creek
78. Kirkland Creek
79. Gilmore Lake and others
80. Mack's Copper
81. Pine Lake
82. Lone Lakes
83. Pickerel River
84. Tower Peak
85. Granite Mountain
86. Camel Mines (Klondike Creek)
87. Tally Ho Syndicate
88. Mistly (Canusteel)
89. Canusteel Gold
90. Orex Silver
91. Hodge River (Strange Miners)
92. Hawk River
93. Northlakes, et al
94. Indian Silver
95. Pay Group (After Exploration)
96. Old Gold Creek
97. Finn (Pyre) Lake
98. Northstar Copper
99. Mary (Simpson Tower)
100. Mac Berry
101. Upstar Explorations
102. Blackstock Coal Flow
103. Reported occurrence
104. Reported occurrence
105. Lucky Lake
106. Coal River
107. Hoosier
108. Cub Creek
109. Canadian Beaconex (Canex Rum)
110. Tobacco
111. Alaska Creek
112. Bonte River
113. Golden Eagle (Flat)
114. Mt. Ingram
115. Little Chief Mine (Base Imperial Mines)
116. Blackjack Mine (Base Imperial Mines)
117. Mount Hinton
118. Mount Chief Mine (Base Imperial Mines)

DISTRICT OF MACKENZIE (N.W.T.)

119. Hoole River
120. Clear Creek
121. Cowley Peak
122. Kennecott
123. Chisholm Copper
124. Chief Point Hill
125. Becker-Cochrane
126. Mt. Mackenzie
127. Lucky Boy and Loyal Leader
128. Snow Hill
129. Skeen Hill
130. Tally-Ho
131. Mt. Vernon
132. College Green
133. Hoole Caribou (Bay Mines)
134. Mathias Mountain
135. Hoole and others
136. Bear
137. Tobacco Mountain
138. Hoole Lake
139. Crane and Lusk Mixed Base Mines
140. Reported occurrence
141. Reported occurrence (Bear)
142. Ingram (Base Silver Mines)
143. Bear
144. Crescent Lake
145. Cache Mountain (Bear Creek)
146. Yukon Tungsten (Middle)
147. Lusk (Krysler-Peyhaen)
148. Reported occurrence
149. Mount Hundere (Bear Lake)
150. Quartz Lake (Manitoba)
151. Mel
152. Twin Lakes

Note: 144 - not used

OPEN FILE

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March 1972

GEOLOGICAL SURVEY

OTTAWA

GEOLOGY and MINERAL DEPOSITS of YUKON TERRITORY and part of SOUTHWEST DISTRICT OF MACKENZIE NORTHWEST TERRITORIES

Miles 10 0 10 20 30 40 50 60 Miles

Base map prepared by the Surveys and Mapping Branch

GEOLOGICAL SURVEY OF CANADA
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