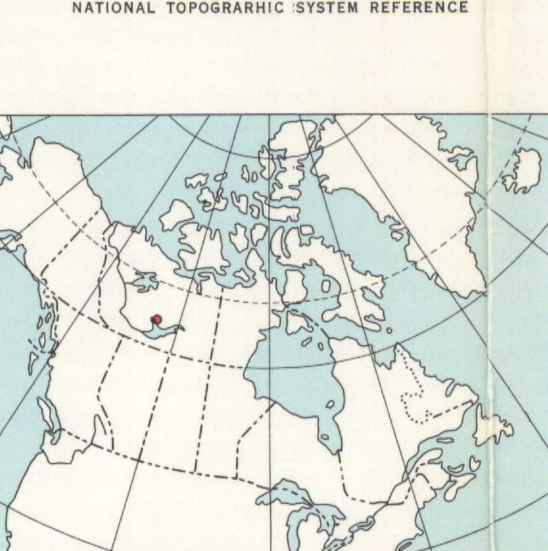
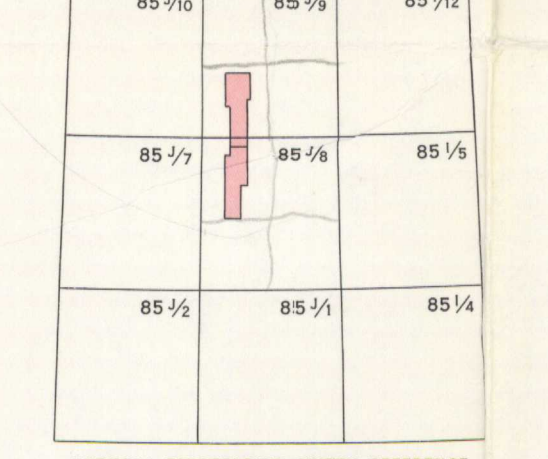
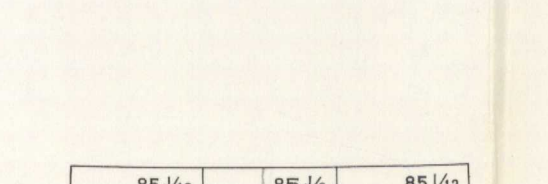


GEOLOGICAL SURVEY OF CANADA
 DEPARTMENT OF ENERGY, MINES AND RESOURCES

MAP 1193A
GEOLOGY
YELLOWKNIFE GREENSTONE BELT
 DISTRICT OF MACKENZIE

Scale 1:82,000
 1 inch to 1,000 feet
 1:82,000



- LEGEND**
- NOTE: Areas of outcrop are shown by deep colour; inferred extensions are shown by a lighter one.
- PROTEROZOIC**
 - 14 Quartz stockwork (granite veins)
 - 13 Diabase gabbro: 13a, porphyritic
 - 12 Granodiorite 12a, containing many inclusions of gneiss; 12b, containing many inclusions of dark hornblende granodiorite; 12c, breccia, cemented by quartz
 - 11 Conglomerate, subvolcanic (age relative to Division B of Yellowknife Group and granodiorite uncertain)
 - 10 Meta-diorite
 - 9 Porphyritic quartz-feldspar leuco-diorite; includes minor non-porphyritic leuco-diorite
 - 8a Meta-gabbro and meta-diorite: 8a, porphyritic. Black pattern indicates distinctive diorite used to interpret fault movement. Arrow indicates direction of slip.
 - 7b Meta-gabbro sills and irregular intrusions: 7a, porphyritic; 7b, younger than 8 and possibly younger than 7c, containing many remnants of gneissiferous
 - YELLOWKNIFE GROUP (1-6)**
 - 6 Porphyritic quartz-feldspar meta-diorite and meta-rhyolite (in part, may be intrusive)
 - 5a Meta-basalt and meta-andesite (granite): 5a, massive lava; 5b, pillow lava
 - 4a Archaic quartzite, gneiss, tuffaceous beds, conglomerate; 4a, crystal tuffs
 - 3 Cherty tuffs and tuffaceous beds
 - ARCHAIC**
 - 2 Porphyritic quartz-feldspar diorite, agglomerate, and tuff
 - 1a Meta-basalt and meta-andesite (granite): 1a, massive lava; 1b, pillow lava; 1c, mixed massive and pillow lava; 1d, gneissiferous (possibly by granodiorite 12); 1e, gneissiferous with many small bodies of meta-gabbro (7); 1f, variolitic pillow lava, includes some variolitic massive lava; 1g, agglomerate and breccia

Dikes, too narrow for colour (replaced, drift-covered)
 Agglomerate and breccia
 Building, not known (inclined, vertical, overturned)
 Building, not known (inclined)
 Building, not known (vertical)
 Fault, not indicated by pillow structure (inclined)
 Fault, probably post-diorite (defined, assumed)
 Fault, schist zone, probably pre-diorite (defined, assumed)
 Mine shaft

Geology by J. F. Henderson, 1945-1949; I. C. Brown, 1949-1949, 1951, 1953
 To accompany G.S.C. Bulletin 141 by J. F. Henderson and I. C. Brown.

Geological cartography by the Geological Survey of Canada, 1957

Roads, all weather
 Roads, dry weather
 Trail
 Power transmission line
 Pipeline
 Buildings
 Storage tanks
 Wharf
 Height in feet above mean sea level

Base-map cartography, with revisions, by the Geological Survey of Canada, 1965, from base-maps by Topographical Survey, 1946

Geographical names subject to revision
 Approximate magnetic declination, 31°01' East, decreasing 6.5" annually.
 Origin of co-ordinates latitude 65°00' longitude 114°30'

Geographic position based on astronomical observations

Published, 1957
 Copies of this map may be obtained from the Director, Geological Survey of Canada, Ottawa

Printed by the Survey and Mapping Branch

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