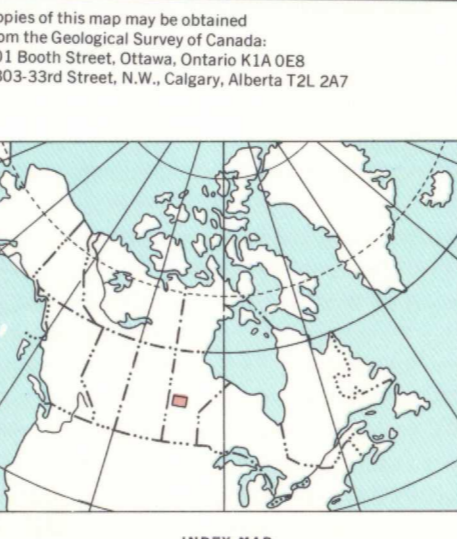
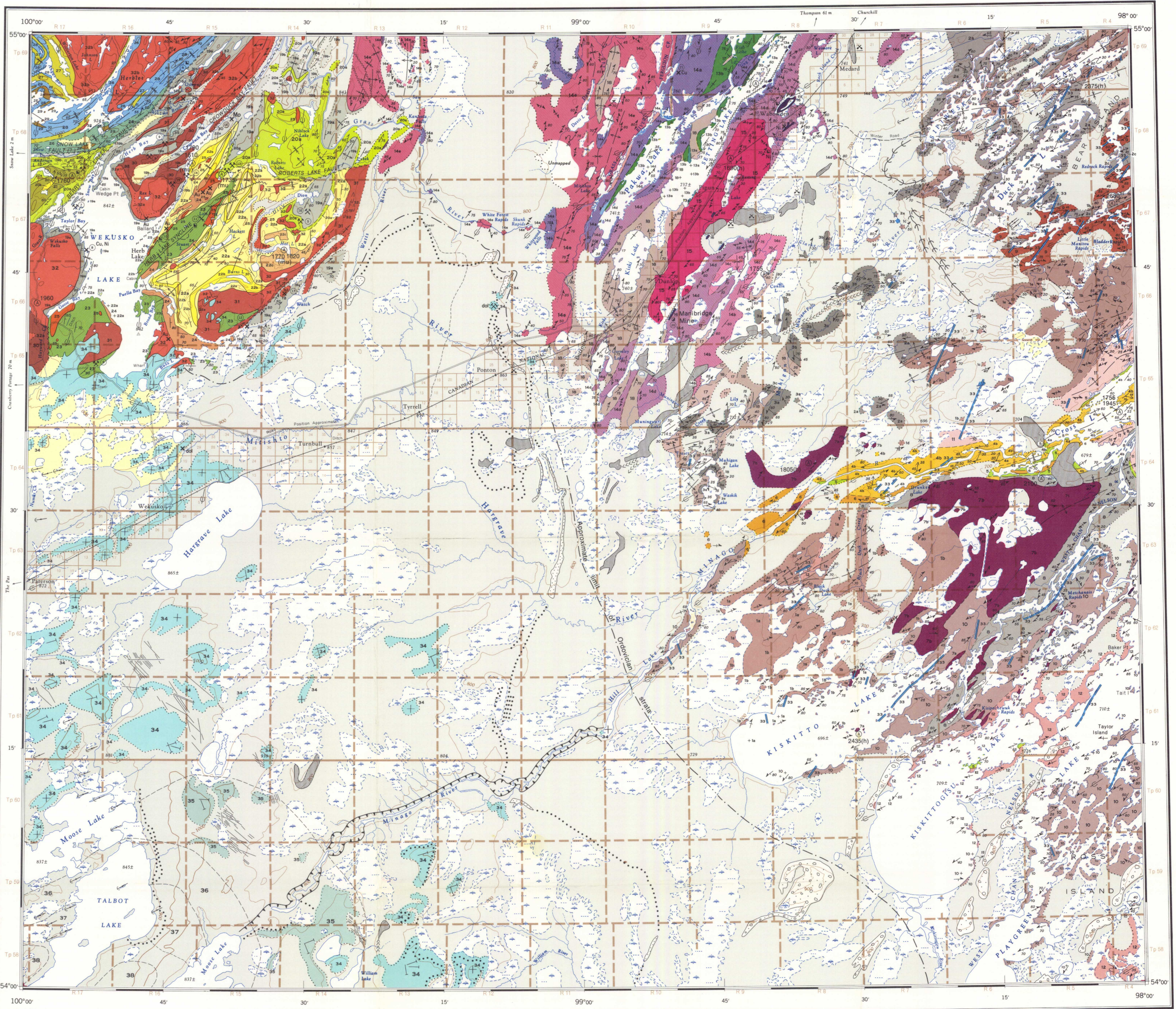


Note: Outlined areas of units 36-38 deduced from drill hole results

LEGEND

- SILURIAN**
- 38 INTERLAKE GROUP (36-38)
 - 37 MOOSE LAKE DOLOMITE: dolomite and stromatolite dolomite
 - 36 FISHER BRANCH DOLOMITE dolomite
- ORDOVICIAN**
- 35 STONEWALL FORMATION: dolomite, dolomite conglomerate
 - 34 STONY MOUNTAIN AND RED RIVER FORMATIONS: dolomite and limestone
- HELIKIAN**
- 33 Basic dyke-rocks: diabase, gabbro, rare norite, pyroxenite
- APHEBIAN**
- CHURCHILL PROVINCE**
- WABOWDEN SUBPROVINCE**
- 18 Agmatite: mixed granitic rock (17) and rocks of units 13-15
 - 17 Granodiorite, quartz monzonite, aplite, pegmatite
- FLIN FLON SUBPROVINCE**
- 32 Granite, granite porphyry, quartz monzonite, granodiorite, related aplite, pegmatite; 32a, agmatite; 32b, metamorphic (?) granite
 - 31 Diorite, quartz diorite; includes some volcanics
 - 30 Quartz diorite, diorite, quartz gabbro, anorthositic gabbro
- SNOW GROUP (26-29)**
- 29 Biotite diorite
 - 28 Arkose, minor greywacke; derived gneisses, sparingly garnetiferous
 - 27 Basic volcanics, minor tuff; derived hornblende gneiss; undifferentiated diorite
 - 26 Acid volcanics, feldspathic sedimentary rocks, agglomerate, tuff, breccia; undifferentiated hornblende, gabbro, diorite
- MISSI (?) GROUP (22-25)**
- 25 Quartz-feldspar porphyry, quartz porphyry
 - 24 Biotite dacite, dacite breccia
 - 23 Basic and acid volcanics, interlamated feldspathic chert and greywacke
 - 22a, 22b, 22c 22a, greywacke, derived schist and gneiss; minor arkose, pebble beds; 22b, conglomerate, minor greywacke; 22c, metasedimentary biotite gneiss
- AMISK GROUP (19-21)**
- 21 Metasomatic rocks: quartz-eye gneiss, garnetiferous biotite-quartz-plagioclase gneiss
 - 20 Metavolcanics: 20a, basic volcanics, derived amphibolite, minor clastic rocks; 20b, basic volcanic breccia, agglomerate and tuff
 - 19a, 19b Metasediments: 19a, greywacke, argillite, quartzite; 19b, staurolite paragneiss and schist
- THOMPSON BELT COMPLEX (13-14)**
- 15 Hornblende monzonite
 - 14 Layered migmatite gneiss: 14a, leucocratic migmatite, augen cataclasis, porphyritic quartz diorite (in sills)
 - 14b, mesocratic migmatite
 - 14c, melanocratic migmatite
 - 14d, hybrid migmatite; agmatite, and felsic augen-gneiss
 - 14e, granitized paragneiss
- CROSS LAKE GROUP (4-6)**
- 7 NELSON RIVER ANORTHOSITE COMPLEX: 7a, porphyritic hornblende anorthosite; 7b, anorthosite; 7c, gabbroic anorthosite
 - 6 Metasomatic rocks: transitional paragneiss
 - 5 Metavolcanic rocks: greenstone, hornblende schist, amphibolite, migmatitic amphibolite
 - 4 Metasedimentary rocks: 4a, conglomerate; 4b, granoblastic biotite-quartz-plagioclase paragneiss
 - 13a, 13b Metasediments: metaconglomerate, quartzite; granoblastic biotite (hornblende) quartz-plagioclase paragneiss, knotted biotite schist
 - 13a, Metavolcanics: metabasalt, amphibolite, hornblende-plagioclase gneiss
- PIKWITONEI PROVINCE**
- 3 Polymetamorphic rocks: 3a, acid gneiss; 3b, intermediate gneiss; 3c, mafic gneiss
 - 2 Amphibolite-facies rocks: 2a, layered granoblastic biotite-quartz-plagioclase gneiss; 2b, granitoid gneiss; 2c, amphibolite
 - 1 Granulite-facies rocks: 1a, layered granulite-gneiss; 1b, enderbite; 1c, layered enderbite gneiss; 1d, mafic granulite; 1e, mixed granulite gneiss
- MINERALS**
- | | | | |
|------------|-----|----------------------|----|
| Copper | Cu | Molybdenum | Mo |
| Dolomite | dol | Muscovite | mu |
| Gold | Au | Nickel | Ni |
| Hornblende | h | Radioactive minerals | ra |
| Lead | Pb | Zinc | Zn |

- Lake Agassiz clay
- Drift-covered area
- Limit of rock outcrop against clay and swamp
- Geological boundary (defined, approximate, gradational)
- Bedding, tops known (horizontal, inclined, vertical, overturned)
- Bedding, tops unknown (inclined, vertical)
- Schistosity, layering in volcanic rocks (inclined, vertical)
- Stratiform gneissosity: parallel, alternating layers of different composition (inclined, vertical)
- Gneissosity: parallel fabric caused by planar disposition of rock-forming minerals (inclined, vertical)
- Lineation, plunge known; may be combined with other symbols
- Drag fold (arrow indicates plunge, relative movement indicated)
- Minor fold (arrow indicates plunge)
- Fault (defined, assumed)
- Joint (vertical)
- Anticline (in sedimentary and volcanic rocks), antiform (in gneissic rocks); (defined, approximate axial trace)
- Syncline (in sedimentary and volcanic rocks), synform (in gneissic rocks); (defined, approximate axial trace)
- Anticline, antiform, syncline or synform (arrow indicates plunge)
- Glacial striae (direction of ice movement known)
- Recessional moraine
- Drumlinoid ridges
- Giant eskers and/or crevasse-filling kames; (bouldery gravel)
- Giant eskers and/or crevasse-filling kames; (sand, minor gravel)
- Eskers (direction known)
- Wave-cut terraces and raised beaches
- Surficial lineaments (cross-cutting relationships indicated)
- Abandoned spillway
- Locality where age has been determined; date on biotite (unless otherwise noted) in millions of years
- Gravel and sand pit (abandoned)
- Quarry
- Mineral deposit, description number (see text)
- Mine shaft (active, abandoned) (see text)
- Mineral prospect; mineral occurrence (gold)
- Limit of Paleozoic strata



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MAP 1423A
GEOLOGY
WEKUSKO LAKE
WEST OF PRINCIPAL MERIDIAN
MANITOBA
Scale 1:250,000

Geology by J.E. Armstrong 1939, M.J. Frarey 1946-1948, G.A. Russell 1954-1955 and C.K. Bell 1962-1963

To accompany GSC Memoir 384 by C.K. Bell (compiled by W.L. Davison)

Geological cartography by William Gary Young, Geological Survey of Canada

Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Kilometres 6 0 6 12 8
Miles 4 0 4 8

Universal Transverse Mercator Projection
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Base-map at the same scale published by the Surveys and Mapping Branch in 1965

Copies of the topographical edition of this map may be obtained from the Canada Map Office, 615 Booth Street, Ottawa, Ontario K1A 0E9

Magnetic declination 1977 varies from 12°36.0' easterly at centre of west edge to 10°12.0' westerly at centre of east edge. Mean annual change -5.2'easterly

Elevations in feet above mean sea level

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