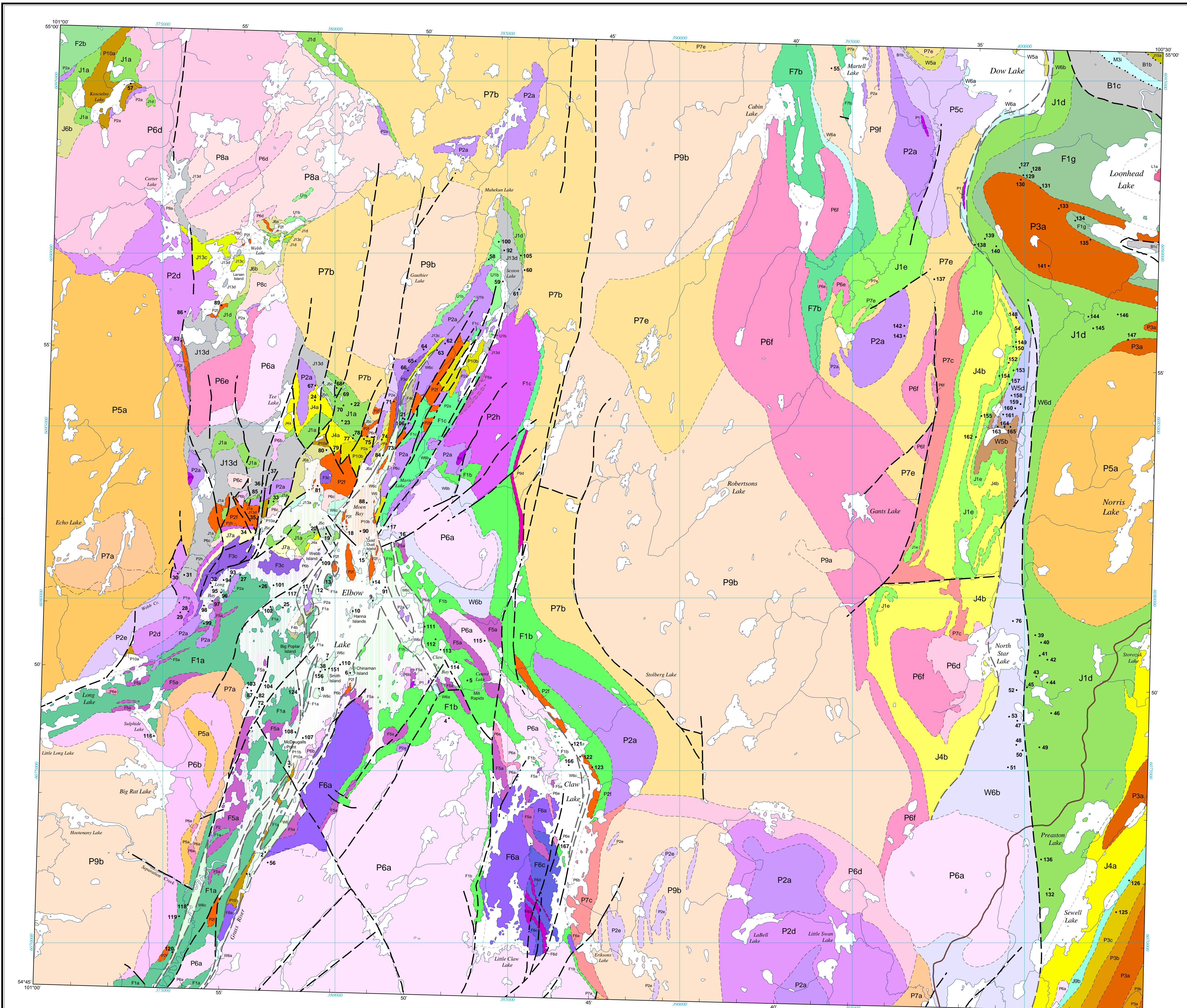


GEOLOGY AND MINERAL OCCURRENCES IN THE ELBOW LAKE AREA, MANITOBA (NTS 63K15)

To accompany Report No. 30 of the Mineral Deposit Series

**LEGEND**

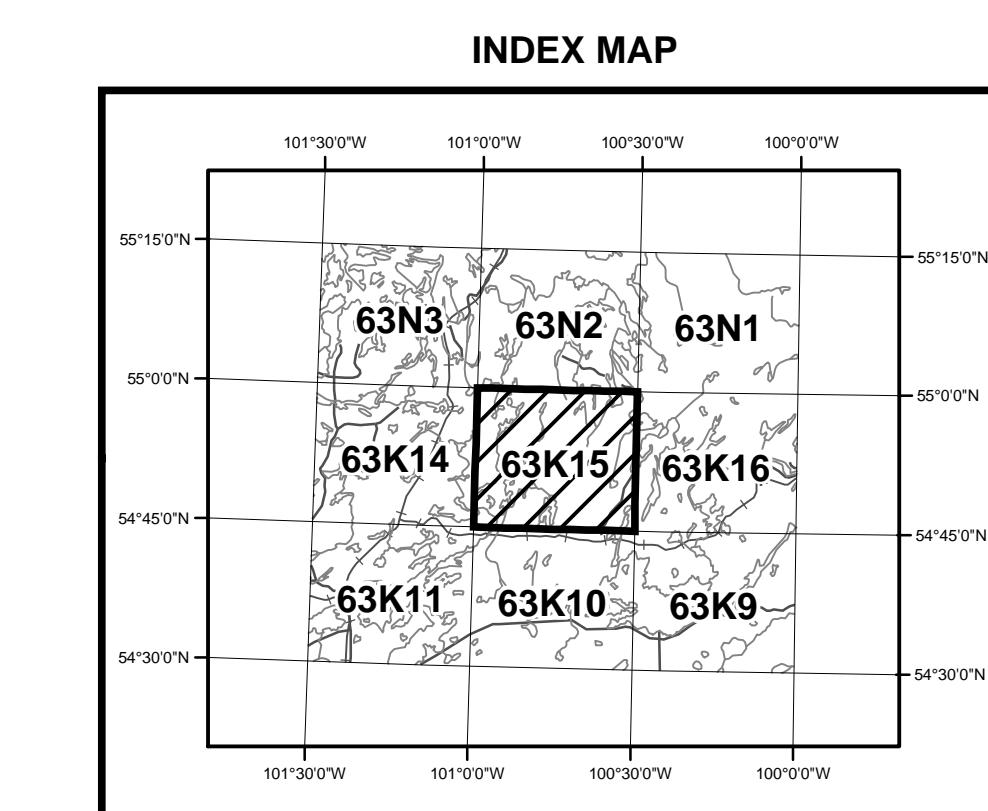
Late Intrusive Rocks (<1.82 Ga)
P3a Gabbronorite, gabbro
P2h Xenolith-rich phase
P2f Diabase, diabase dyke complex
P2e Diorite to quartz diorite
P2d Quartz diorite and gabbro
P2a Gabbro, diorite
P2 Gabbro, diorite, quartz diorite and derived amphibolite: undifferentiated
P1a Ultramafic rocks: pyroxenite, melagabbro
P1 Ultramafic rocks: undifferentiated
1.87-1.83 Ga Sedimentary, Volcanic and Hypabyssal Intrusive Rocks
M3i Quartzofeldspathic migmatite
Burntwood Group (1.85-1.84 Ga)
B1c Garnet-biotite gneiss and migmatite, ± cordierite, ± sillimanite
B1b Garnet-biotite gneiss ± sillimanite or andalusite, local staurolite, biotite gneiss
Rocks of Uncertain Age
W6c Mafic phyllonite ± carbonate, cataclasite
W6b Mafic tectonite with mafic-felsic intrusive sheets
W6a Mafic tectonite, phyllonite, mylonite
W6 Tectonite, phyllonite, mylonite: undifferentiated
W5d Interlayered hornblende and biotite gneiss
W5b Felsic to intermediate gneiss, ± garnet
W5a Felsic gneiss
Intrusive Rocks (1.88-1.83 Ga)
P11b Tectonite, mylonite felsic phyllonite, quartz-sericite ± carbonate schist
P10b Quartz porphyry, feldspar porphyry, quartz-feldspar porphyry
P10a Aphyric and porphyritic felsic-intermediate dykes
P10 Dykes and dyke complexes: undifferentiated
P9f Foliated to gneissic granite and granodiorite
P9g Pegmatite, aplite
P9b Granite to granodiorite
P9a Granite
P8c Quartz-rich tonalite gneiss ± garnet, local supracrustal rock
P8a Leucogranodiorite to tonalite
P7e Foliated and gneissic granodiorite to tonalite
P7c Quartz-rich tonalite gneiss ± garnet, local supracrustal rock
P7b Granodiorite to tonalite
P7a Granodiorite
P6f Foliated to gneissic tonalite to quartz diorite
P6e Xenolith-rich phase
P6d Tonalite to quartz diorite
P6c Leucotonalite
P6b Quartz diorite
P6a Tonalite
P5c Foliated to gneissic quartz diorite to diorite
P5a Quartz diorite to granodiorite
P5b Quartz diorite
P5a Quartz ferrodiorite, ferrotonalite, leucotonalite
P5b Ferrogabbro
Ocean Floor
F7b Amphibolite, mafic tectonite
F6d Layered pyroxenite, peridotite, subordinate gabbro
F6c Layered gabbro, leucogabbro, anorthosite
F6a Gabbro, gabbro pegmatite; leucogabbro; wispy-layered gabbro
F5a Gabbro, diabase
F4c Heterolithologic breccia
F4b Mafic tuff, lapilli tuff, breccia
F3c Plume-related basalt: Long Bay ocean island basalt conglomerate, sandstone
F2b E-type basalts: pillow basalt, gabbro, derived amphibolite
F1g Basalt, diabase; derived amphibolite
F1c Moen Bay pillow basalt and breccia
F1b Claw Bay pillow and massive basalt, diabase, derived tectonite
F1a McDougalls Point pillow and massive basalt, diabase
Unknown Geochemical Affinity
U1b Mafic volcanic, minor volcanoclastic and intrusive rocks: mafic gneiss

SYMBOLS

--- Contact: approximate	— Shears
--- Contact: under water	* Mineral occurrence location
— Fault: defined	— Abandoned road
... Fault: possible	--- Trails

The geology and unit numbers for this map are derived from:
NATMAP Shield Margin Project Working Group 1998: Geology, NATMAP Shield Margin Project Area (Flin Flon Belt), Manitoba - Saskatchewan; Geological Survey of Canada Map 1968A, Manitoba Energy and Mines Map A-9-2, sheets 1 to 7, Saskatchewan Energy and Mines Map 258A-2, scale 1:100 000.

Note: Only those units relevant to the Elbow Lake area appear in the legend.

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Cartography by M.E. McFarlane

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Suggested reference:
Heine, T.H. 2003. Mineral deposits and occurrences in the Elbow Lake area, Manitoba, NTS 63K15, Manitoba Industry, Trade and Mines, Manitoba Geological Survey, Mineral Deposit Series Report No. 30, 378 p. plus 2 maps at 1:50 000.