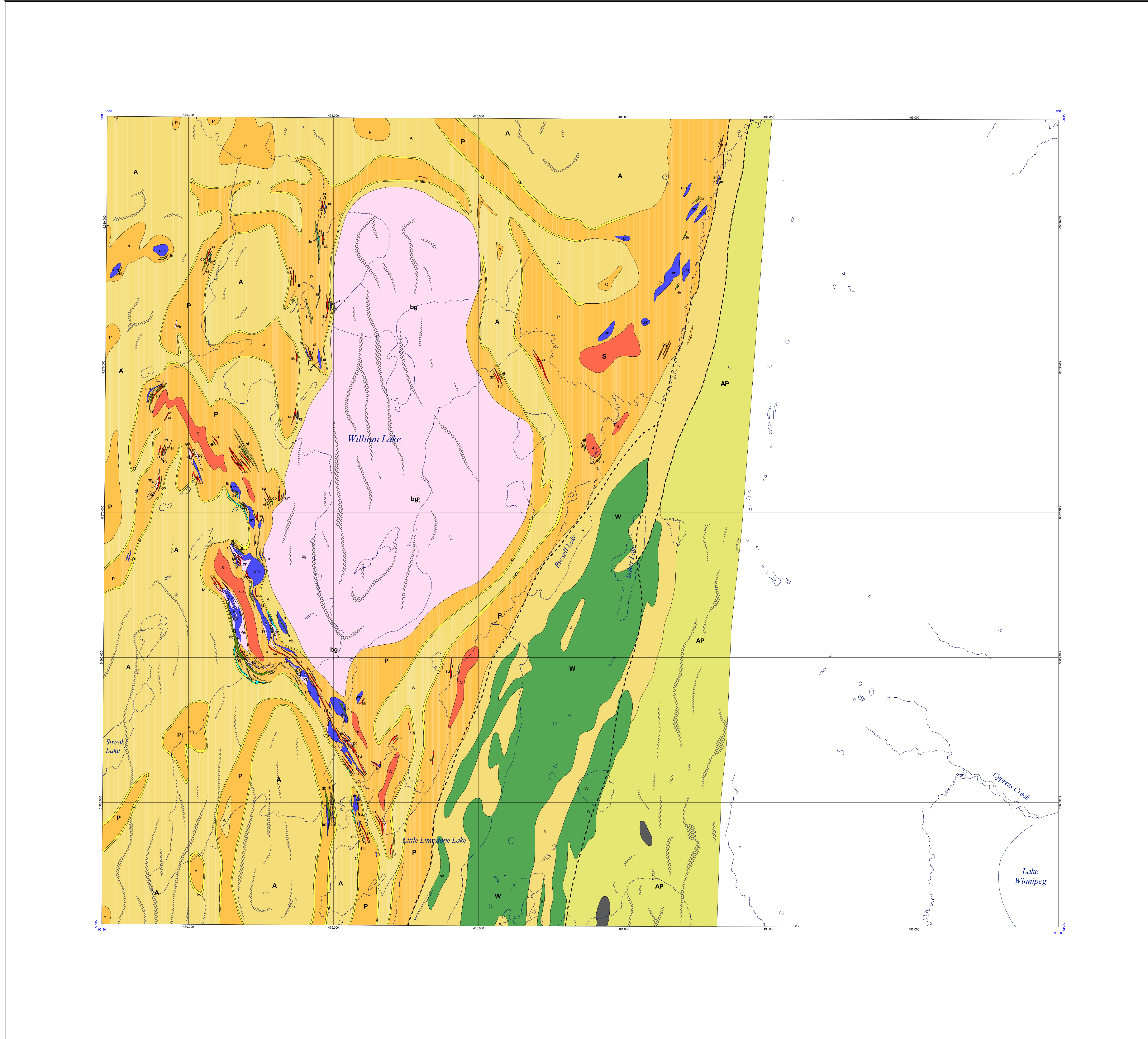




Geology of the William Lake area (63G/14)



**LEGEND**

**INTRUSIVE ROCKS, ORTHOGNEISS**

- db Metadiabase or metagabbro dykes. In O or A, usually belong to Malson dyke swarm
- pg Pegmatite
- g Granitic, granitoid rocks
- bg Biotite granite
- qs Quartz syenite
- gb Metagabbro, usually associated with um or occurring as subvolcanic sills
- um Dunite (serpentinized), metaperidotite, metaproxenite, serpentinite, derived ultramafic schist, usually as sills in Osipwagan Group sequence

**G** GRASS RIVER GROUP, undivided; mainly magnetite-bearing paragneiss; locally hornblende, biotite, garnet- or sillimanite-bearing; laminated, thinly layered; in places crossbedded, pabbly; magnatized; minor intercalations of felsic metavolcanic rocks

**B** BURNWOOD GROUP, undivided; greywacke-mudstone metaturbidite, garnet- and graphite-enriched; locally cordierite- and sillimanite-bearing; includes derived migmatite

**W** WINNIPEG BELT ASSEMBLAGE, undivided; ultramafic to mafic volcanic flows, massive, zoned, locally olivine- or clinopyroxene spinifex textured; aphanitic to ophitic texture common; pillowed flows, hyaloclastite; also includes sub-greenschist facies thinly layered siliceous siltstone and calcareous siltstone

**O** OSIPWAGAN GROUP SUPRACRUSTAL ROCKS, undivided; a sequence of clastic, chemical and metavolcanic rocks belonging to M, T, P, S Formations, and Ba assemblage. If M Formation is not on the map, then areas of undivided Osipwagan group are defined solely on the basis of geophysical signature. In some instances, Osipwagan Group might not be present and the magnetic anomalies are reflection of increased magnetic content in basement only.

**Ba** Bah Lake assemblage, undivided; metabasalt flows, pillowed or massive, local breccia; derived amphibolite; metagabbro - diabase subvolcanic sills; Pierre sills; minor interflow chert; iron formation, volcanogenic sediment

**pp** Picrite, massive or porphyroblastic

**S** Setting Formation, undivided; feldspathic quartzite and metapelite interlayered in varying proportions in a metaturbidite sequence

**P** Pipe Formation, undivided; sequence of sulphide, silicate and oxide facies iron formations, sulphidic; chert; metapelite; minor dolomite marble, calc-silicate; near the top sandstone - pelitic metaturbidite

**dm** Dolomite marble intercalation enclosed in silicate facies iron formation of P3

**ca** Iron formation, oxide facies, found only in P3

**si** Iron formation, silicate facies, stratigraphic position unknown unless determined by its host P1 or P3

**sa** Iron formation, sulphidic facies, stratigraphic position unknown unless determined by its host P1 or P2

**if** Iron formation, facies unspecified, stratigraphic position unknown

**T** Thompson Formation, undivided; marble or marble, layered, varied in composition and texture; olivine - amphibole - diopside marble, coarse grained

**M** Manasau Formation, undivided; basal clastic rocks; metaglomerate, sandstone, minor shale, graded beds, thin upwax; serpulite schist, rhythmically layered, calc-silicate layer near the top; pegmatite segregations in high grade metamorphic derivatives

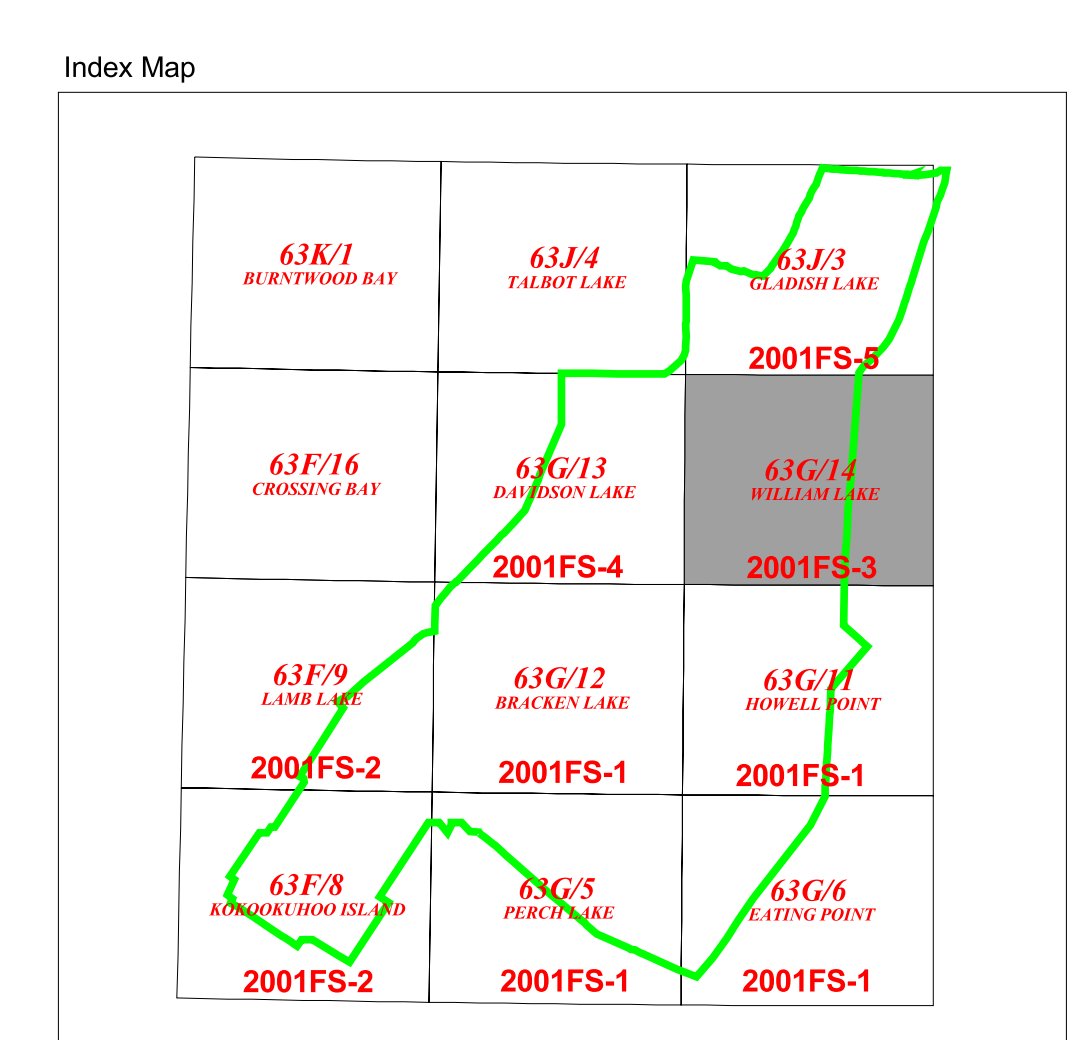
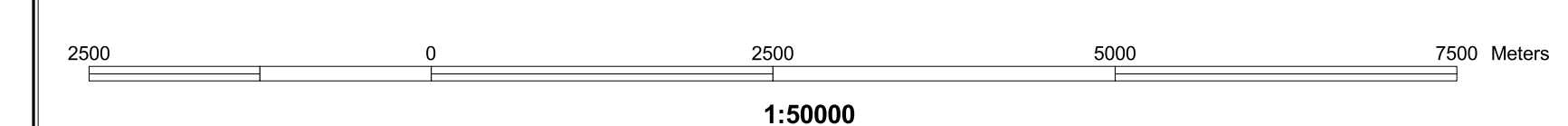
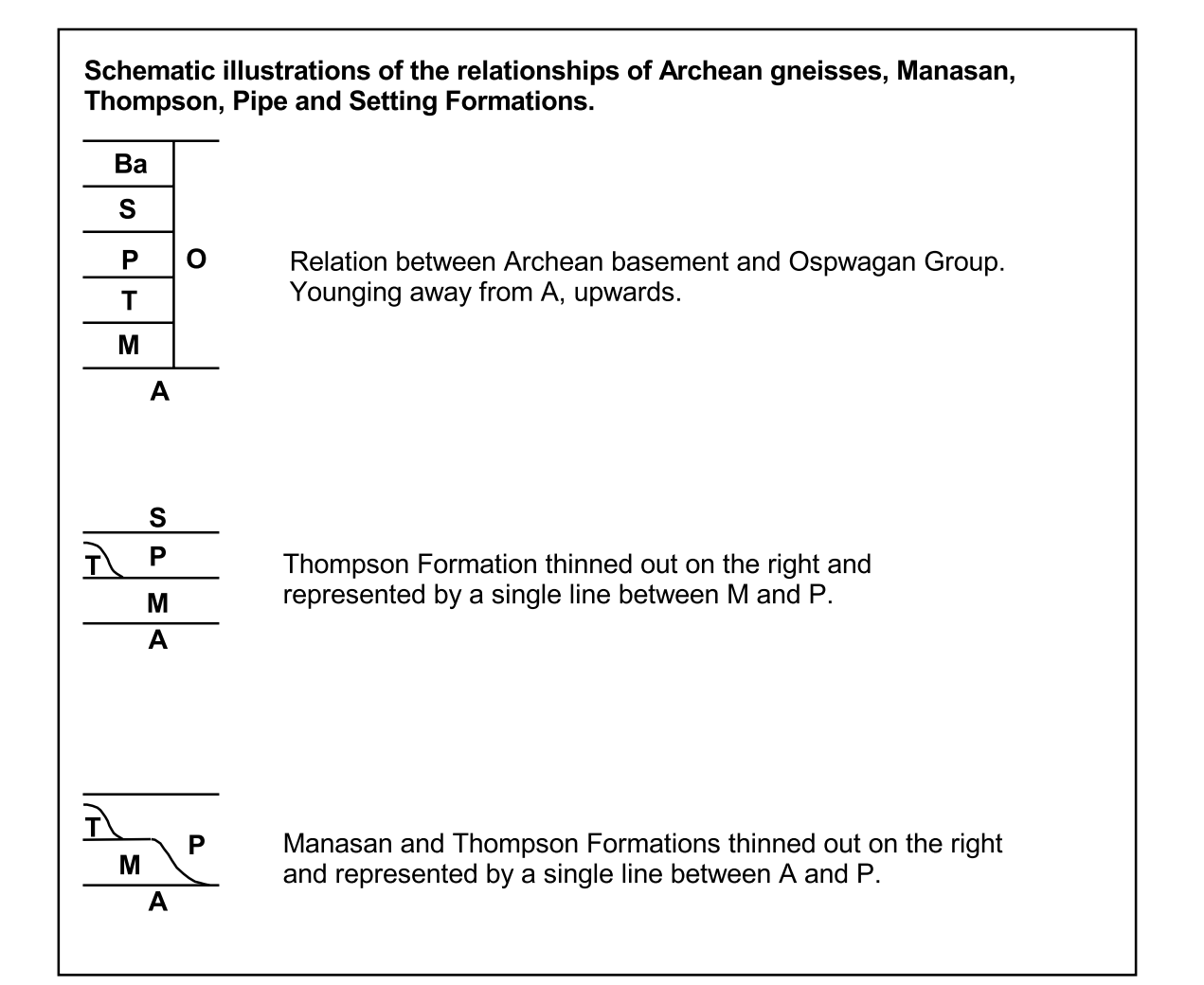
**A** ARCHEAN BASEMENT MIGMATITE - GNEISS, undivided, retrogressed, leucocratic to doric in composition, host to distinct bodies of orthogneiss (1 to 6), ages uncertain

**g** Biotite granite orthogneiss

**ap** ARCHEAN PIKWITONEI GRANULITE BASEMENT, undivided; leucocratic to melanocratic migmatite and gneiss, orthopyroxene-bearing

**SYMBOLS**

- Fault
- Geophysical anomaly of unknown origin
- Structural trend derived from the vertical gradient of a magnetic anomaly
- Contact



**Manitoba Industry, Trade and Mines**  
MANITOBA GEOLOGICAL SURVEY  
Geology contributors: J. J. Macek, H. V. Zwanzig, C. R. McGregor

**FALCONBRIDGE LIMITED**  
Geology and Geophysics contributors: P. Tirschmann, P. Nagerl, J. DerWeduwen, K. Wells, T. Mallinson, A. Watts  
Electronic cartography support: Y. Zwiellak, G. Schween  
Field support: R. Kelly, J. Liwanag, S. King, J. Giroux, F. E. McGregor, J. P. Macek  
Administrative support: L. M. Jarman  
Managerial support: J. Robertson, D. MacEachern, J. E. Lee

**INCO EXPLORATION**  
INCO LIMITED  
Geology and Geophysics contributors: L. R. Larson, R. Stewart, A. J. Aubut, R. K. Lyons, B. M. Czornobay, M. Napoli, J. Gertzbein, D. M. Seneshen, P. Golithly

**HUDSON BAY EXPLORATION AND DEVELOPMENT LIMITED**  
Geology and Geophysics contributors: D. H. Simms, N. Richardson, A. K. Vowles, D. E. McKeachnie, M. W. Zang

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This map is a preliminary representation of the results of a mapping and compilation program. It is not to be regarded as a final interpretation of the geology of the area. The data used in producing this map was transferred from un-revised archives and is subject to distortion. No attempt was made to remove this distortion for this preliminary release.

Suggested reference:  
TMB Geology Working Group  
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Map projection: Universal Transverse Mercator, Zone 14, North American Datum 1983.