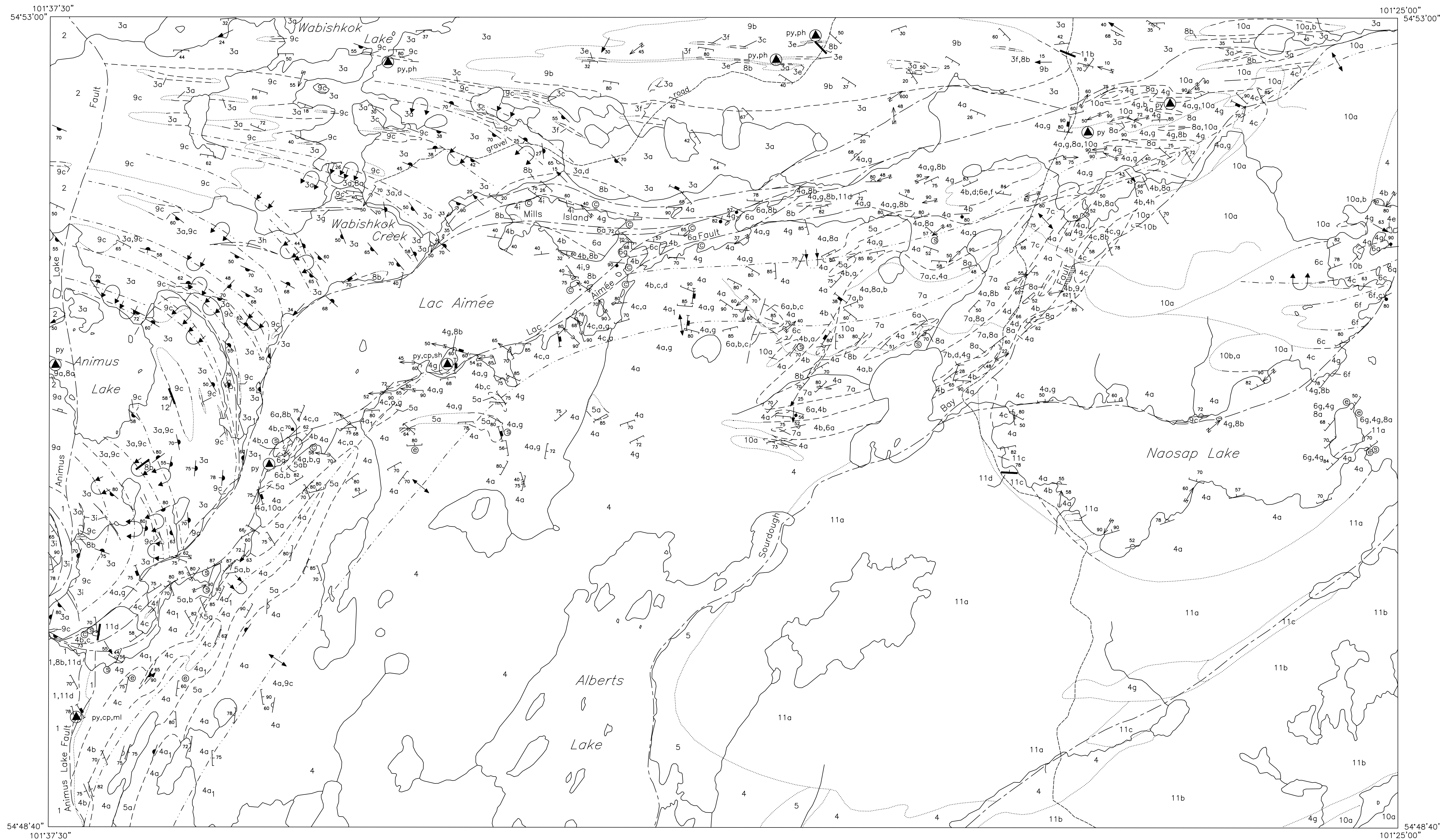




GEOLOGY OF THE
LAC AIMÉE-NAOSAP LAKE
AREA

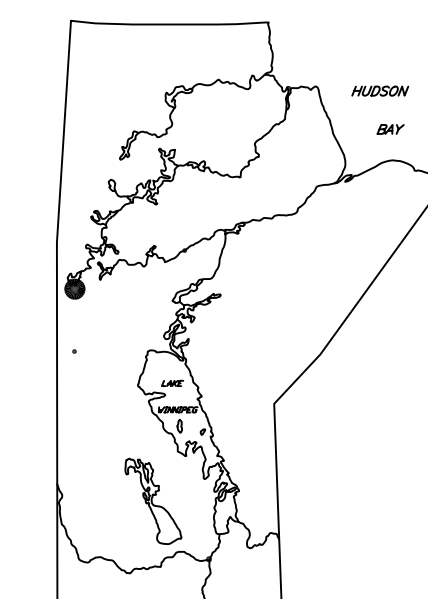
Legend

- PRECAMBRIAN
- POST 1.9 Ga INTRUSIVE ROCKS
- 12 Diabase, aphyric to plagioclase phyric
- 11 (a) granodiorite, tonalite (hornblende + biotite-bearing)
(b) granodiorite, granite, aplite
(c) felsite, plagioclase ± quartz porphyry
(d) quartz ± plagioclase porphyry (2 mm - 1 cm)
- 10 (a) gabbro, amphibolite
(b) hornblende (pyroxenite-derived)
- AMISK COLLAGE
- INTRUSIVE ROCKS (inferred synvolcanic or penecontemporaneous with 1.9 Ga volcanism)
- 9 Mafic intrusive rocks
(a) gabbro, gabbro-norite, hornblende (Batters Lake sill)
(b) gabbro, minor hornblende (North Aimée gabbro)
(c) gabbro (sills intercalated with mafic volcanic rocks)
- 8 Felsite, felsic porphyry
(a) felsite
(b) plagioclase ± quartz porphyry (1 - 5 mm)
- 7 Tonalite, quartz diorite; granodiorite, granite
(a) tonalite, leucotonalite, quartz diorite; minor diorite
(b) leucodiorite, quartz diorite; minor diorite
(c) granodiorite, granite
(d) aplite
- Lac Aimée and Sourdough Bay arc and arc-rift volcanic rocks; related turbidite-type sedimentary rocks
- 6 Volcanic-derived sedimentary rocks and reworked mafic tuff
(a) felspathic greywacke, siltstone
(b) chert, cherty siltstone
(c) intermediate to siliceous siltstone
(d) argillite, argillaceous siltstone
(e) quartz-bearing greywacke, siltstone
(f) mafic greywacke
(g) cordierite schist, gneiss (± garnet)
- 5 Felsic volcanic and related intrusive rocks
(a) rhyolite, plagioclase ± quartz phyr; minor felsic tuff, breccia and related intrusive rocks
(b) felsic tuff, lapilli tuff
- 4 Mafic to intermediate volcanic and related intrusive rocks; derived schist and gneiss
(a) basalt, basaltic andesite, aphyric to plagioclase phyr; minor related volcanic breccia, diabase and gabbro
(a1) basalt, pyroxene phyr
(b) mafic tuff, crystal tuff; minor lithic tuff and lapilli tuff
(c) intermediate to mafic heterolithic breccia, minor tuff
(d) intermediate tuff, crystal tuff
(e) pyroclastic breccia, felsic fragments
(f) pyroclastic breccia, mafic fragments
(g) diabase, aphyric to porphyritic
(h) mafic schist, gneiss and amphibolite (amphibole-chlorite ± epidote)
(i) chlorite-carbonate schist

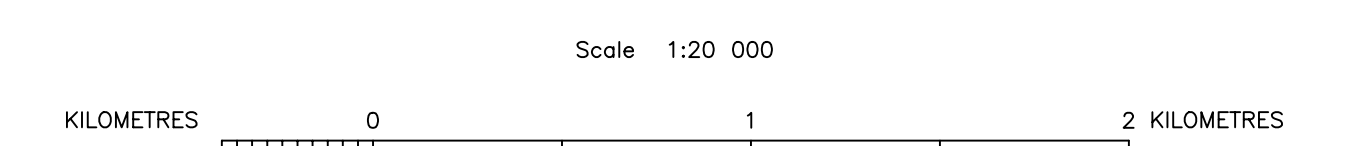


Symbols

- Geological contact; approximate, gradational, assumed
- Bedding; top unknown, known
- Pillows; top unknown, known
- Igneous layering (tops unknown)
- Flow contact; top unknown
- Foliation; first generation, third generation
- L-fabric
- Fold axis
- Z, S, U folds
- Axial plane
- Axial trace of first generation anticline (overtuned)
- Axial trace of first generation syncline (overtuned)
- Axial trace of second generation anticline (upright)
- Axial trace of second generation syncline (overtuned)
- Fault, inferred
- Shear zone
- Fault breccia
- Dyke
- Mineralization
- py pyrite
cp chalcopyrite
ph pyrrhotite
sh sphalerite
ml malachite
- Alteration
- silicification
epidiotization
carbonatization
- Provincial road, gravel
- Trail



Geology by: H.P. Gilbert
1996, 1997



Reference: Geology of the Lac Aimée-Naosap Lake area (63K/13SE and 63K/14SW);
Manitoba Energy and Mines, Preliminary Map 1997F-1, 1:20 000.