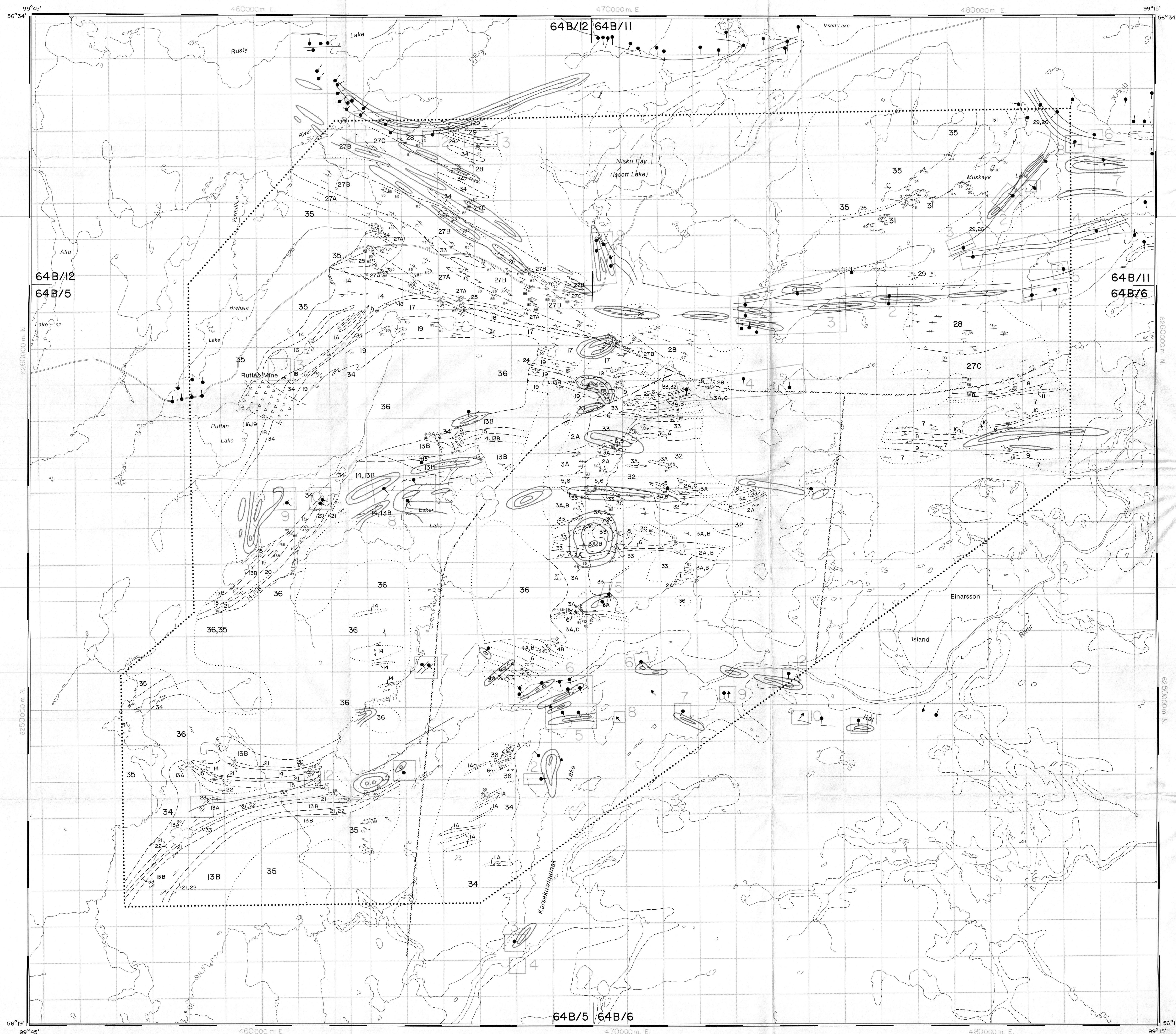


MINERAL DEPOSITS OF THE RUTTAN LAKE,  
KARSAKUWIGAMAK LAKE, MUSKAYK LAKE  
AREA, MANITOBA



- LEGEND
- Plutonic Rocks**
- 38 Granite and minor quartz monzonite
  - 35 Granodiorite, quartz monzonite
  - 34 Diorite, quartz diorite
  - 33 Gabbro
  - 32 Intrusive gabbro and diorite
- Volcanic derived sedimentary rocks**
- 31 Conglomerate with interbedded arkosic sandstone: the conglomerate is polystratified, volcanic and plutonic derived with an arkosic sandstone matrix
  - 30 Siltstone facies iron formation and minor chert: disseminated pyrite and pyrrhotite in a massive siliceous fine grained rock
  - 29 Greywacke
  - 28 Conglomerate with interbedded arkosic-greywacke sandstone: the conglomerate is polystratified, volcanic and plutonic derived
  - 27 Conglomerate, sandstone and siltstone: volcanic derived, organized into Bouma divisions
  - 26 Arkosic sandstone
  - 25 Greywacke composition
- Flow rocks**
- 24 Basalt: aphyritic with subvolcanic plagioclase-phyric flows, massive lava, pillow breccia and hyaloclastite
  - 23 Basalt: plagioclase-phyric, massive lava, pillow lava, flow breccia (pillow breccia) and tuffaceous rocks (hyaloclastite)
- INTRUSIVE ROCKS**
- 22 Felsic sill complex
- Volcanic derived sedimentary rocks**
- 21 Altered greywacke sedimentary rocks and oxide facies iron formation
  - 20 Greywacke, siltstone-argillite-quartzite schists and non-bedded tuffaceous rocks of intermediate composition
  - 19 Siltstone: greywacke to arkosic compositions
  - 18 Conglomerate with interbedded sandstone
  - 17 Greywacke with minor interbedded volcanic derived polystratified conglomerate
  - 16 Flow sequence: bedded siliceous sandstone, greywacke and minor cherty beds
- Volcaniclastic rocks and associated flow rock**
- 15 Individual mafic: volcaniclastic and mafic flow rocks: mafic flows were abundant in the eastern area of the fault block
  - 14 Felsic: massive, non-bedded: contains felsic fragments that are set in a homogeneous matrix of greywacke composition. Footwall of the Ruttan Mine.
- Flow rocks**
- 13 Felsic: aphyritic, massive, flow banded and minor derived fragmental rocks
  - 12 Basalt: aphyritic, plagioclase- and hornblende-phyric, massive lava, pillow lava, breccia. North of Ruttan Mine, the unit includes abundant aphyritic and chertic intrusive rocks.
  - 11 Basalt: differentiated flow, hornblende-bearing
  - 10 Basalt: massive, hornblende-bearing, flow features not observed
  - 9 Mafic plagioclase-phyric rocks: massive, intrusive or extrusive origin undetermined
- EASTERN BLOCK**
- Volcanic derived sedimentary rocks**
- 8 Laminarite: angular to subrounded intermediate and mafic fragments, 1 to 7 mm diameter in a fine-grained intermediate matrix
  - 7 Conglomerate: mafic, intermediate and felsic clasts in a fine-grained mafic matrix
  - 6 Interbedded siltstone and conglomerate: siltstone are intermediate in composition, conglomerate consists of felsic and intermediate clasts in an intermediate matrix
- Flow rocks**
- 5 Felsic: undivided massive, flow banded and fragmental rocks; massive rocks and fragments contain 1 mm plagioclase phenocrysts
  - 4 Mafic volcanic rocks: massive, fine to medium grained, plagioclase- and hornblende-phyric. Origin is undetermined
- KARSAKUWIGAMAK LAKE BLOCK**
- Volcanic derived sedimentary rocks**
- 3 Siltstone: bedded and laminar, intermediate and felsic composition
  - 2 Conglomerate: bedded, volcanic derived, felsic and intermediate clasts in an intermediate matrix
  - 1 Volcaniclastic rocks
- Flow rocks**
- 10 Felsic: felsic clasts in an intermediate matrix
  - 9 Felsic: felsic clasts in a mafic matrix
  - 8 Basalt: massive
  - 7 Basalt: flow banded
  - 6 Basalt: derived fragmental rocks and tuffaceous rocks
  - 5 Intermediate
  - 4 Basalt: massive
  - 3 Basalt: flow banded
  - 2 Basalt: fragmental
  - 1 Basalt: equigranular to plagioclase-phyric; massive lava, pillow lava, pillow breccia and mafic tuff

- SYMBOLS
- Electromagnetic anomaly (strong, medium, weak)
  - Residual magnetic anomaly
  - Mineral locality
  - Drill holes: Single hole (with logs, without logs)
  - Multiple hole (with logs, without logs)
  - Limit of flooding
  - Limit of drift
  - Limit of geological mapping
  - Geological boundary (defined, approximate, geological, assumed)
  - Fault (assumed)
  - Bedding, top known (inclined, vertical, overturned, dip unknown)
  - Bedding, top unknown (inclined, vertical, dip unknown)
  - Pillows, top known (overturned)
  - Pillows, top unknown (dip unknown)
  - Flow banding, top unknown (inclined, vertical, dip unknown)
  - Inclusion layering, dip unknown
  - Foliation (inclined, vertical, dip unknown)
  - Zone of intrusion breccia
  - Time
  - Mineralization

