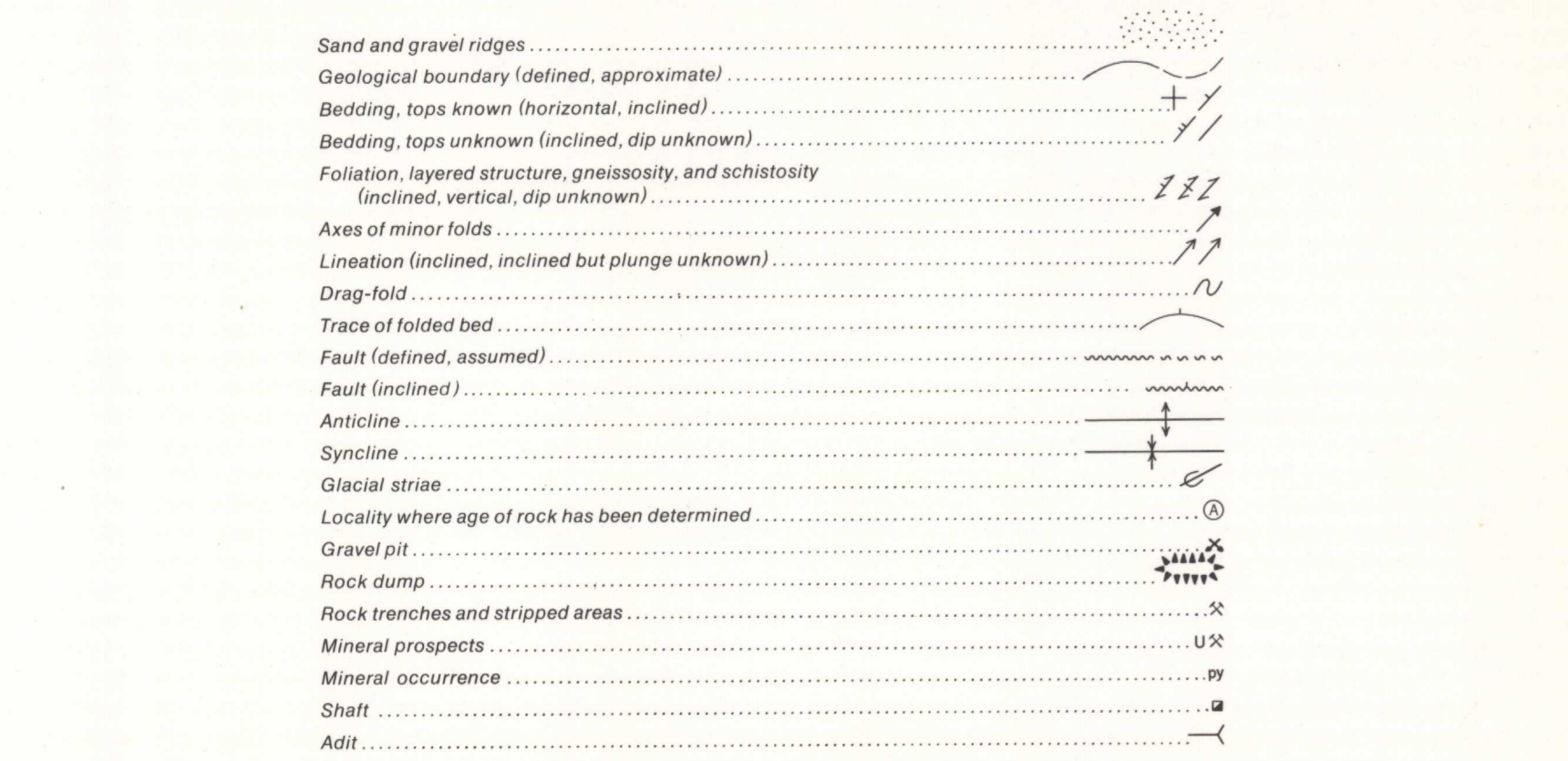


LEGEND

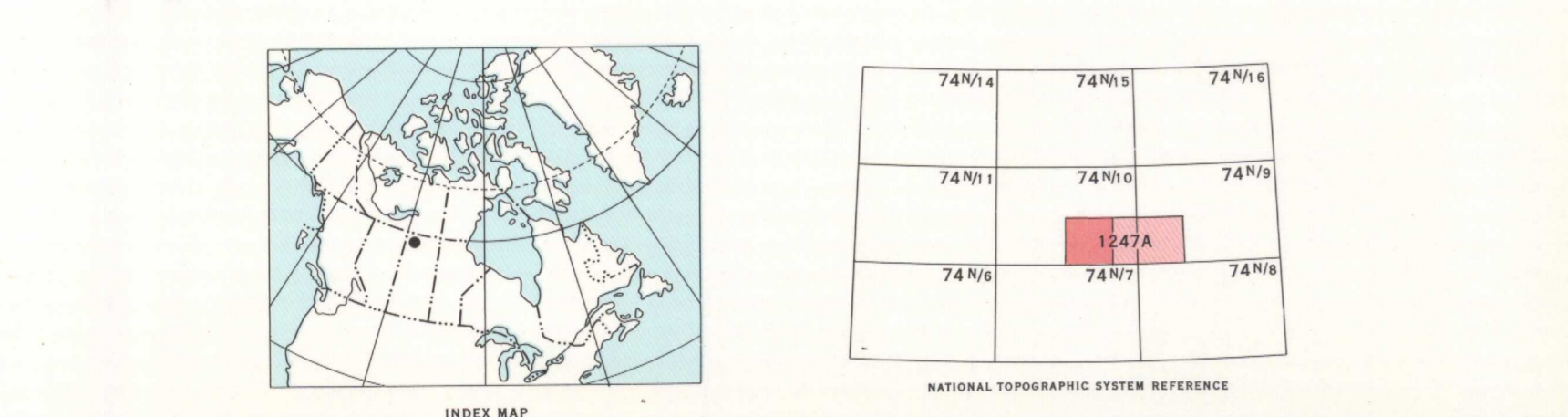
- PROTEROZOIC**
- 27 Gabbro, diabase, gabbro, basalt; 27a, assemblage of several narrow dykes and country rocks; 27b, altered; 27c, amygdaloidal and porphyritic.
  - MARTIN FORMATION (20-26)**
  - 26 Siltstone, minor arkose, conglomerate; 26a, some arkose; 26b, some conglomerate; 26c, brecciated.
  - 25 Conglomerate in interbeds; minor arkose, siltstone; 25a, some arkose; 25b, some siltstone; 25c, brecciated.
  - 24 Upper arkose; minor conglomerate, siltstone; 24a, some siltstone; 24b, some conglomerate; 24c, brecciated.
  - 23 23a, amygdaloidal, porphyritic andesite and basalt; 23b, fine-grained porphyritic basalt, possibly intrusive; 23c, calcic to 23d, pillow lava.
  - 22 Lower arkose; minor conglomerate, siltstone; 22a, some siltstone; 22b, some conglomerate; 22c, calcareous; 22d, brecciated; 22e, abundant veinlets of silica.
  - 21 Siltstone, minor arkose, conglomerate; 21a, some conglomerate; 21b, some arkose; 21c, some green shales; 21d, brecciated.
  - 20 Basal conglomerate, breccia; minor arkose, siltstone; 20a, abundant fragments of granite rocks; 20b, abundant fragments of grey quartzite, graywacke, and white glassy quartzite; 20c, abundant fragments of rocks rich in mafic minerals; 20d, abundant fragments of rocks rich in mafic minerals; 20e, some beds of sandstone and siltstone; 20f, brecciated.
  - TAMN GROUP (1-18)**
  - 19 Mesosomatic granite, red, massive, locally faintly gneissic and in part calcareous; minor granite and pegmatite dykes; 19a, gneissic and layered, in part with dark minerals; 19b, calcareous, brecciated, and mylonitized, dense, in part gneissic and layered; 19c, highly calcareous, dark mineral content and many dark minerals; 19d, carbonate-rich; 19e, amphibole, hornblende schist and gneiss, in part altered to chlorite rock; 19f, quartzitic, white, feldspathic and layered; minor quartzite; 19g, alternating gneissic layered gneiss, red, minor granite; 19h, grading into chlorite schist and impure quartzite.
  - AREA EAST OF MARTIN FORMATION**
  - AREA SOUTH OF ST. LOUIS FAULT (6-9)**
  - MURRAY BAY FORMATION (6-9)**
  - 9 Limestone, dolomite, in part silicate-bearing; 9a, includes a few quartzite interbeds.
  - 8 Quartz-booth schist, graywacke, impure quartzite, garnetiferous; 8a, in part hornblende; 8b, in part chloritic; 8c, mainly quartzite; 8d, gneissic and layered; 8e, calcareous; 8f, argillite-like and slaty, resembling 4.
  - 7 Amphibole, hornblende schist, in part granitized; minor granite masses; 7a, chlorite schist, chlorite-booth schist; in part hornblende; 7b, granitized chlorite and/or hornblende and/or basalt schist, includes small granite masses; 7c, mainly quartzite schist, in part granitized, includes a few quartzite interbeds; 7d, in part carbonate-rich; 7e, interbedded; 7f, minor hornblende and/or chlorite schist, quartzite (6), and red granite material; 7g, large patches or blocks in granite; 7h, clay.
  - 6 Quartzite, mainly massive and white, 6a, diopside-bearing; 6b, with red hematite or hematite; 6c, schistose or altered to chlorite-schist schist, in part impure quartzite or graywacke; 6d, brecciated; 6e, in part red granite; 6f, mottled black and white; 6g, minor carbonate rock; 6h, minor biotite-chlorite schist and hornblende schist; 6i, resembling Donaldson Lake gneiss (2).
  - AREA NORTH OF ST. LOUIS FAULT (1-5)**
  - 5 Buff quartzite, massive and bedded; 5a, brecciated; 5b, in part red granite; 5c, in part hornblende schist; 5d, massive, glassy, white quartzite; 5e, in part argillite and chlorite schist.
  - 4 As, argillite, silty, chlorite-epidote rock; 4b, hornblende schist; minor amphibole; 4c, brecciated; 4d, in part quartzite; 4e, in part red granite; 4f, impure hornblende schist; hornblende schist; 4g, hornblende schist; 4h, hornblende schist; 4i, hornblende schist; 4j, hornblende schist; 4k, hornblende schist; 4l, hornblende schist; 4m, hornblende schist; 4n, hornblende schist; 4o, hornblende schist; 4p, hornblende schist; 4q, hornblende schist; 4r, hornblende schist; 4s, hornblende schist; 4t, hornblende schist; 4u, hornblende schist; 4v, hornblende schist; 4w, hornblende schist; 4x, hornblende schist; 4y, hornblende schist; 4z, hornblende schist.
  - 3 Quartzite-chlorite schist; chlorite-schist schist; 3a, in part quartzite; 3b, in part red granite; 3c, in part hornblende schist; 3d, in part hornblende schist; 3e, in part hornblende schist; 3f, mainly quartzite; 3g, resembles Donaldson Lake gneiss (2).
  - 2 DONALDSON LAKE GNEISS: white, granitoid and crudely layered quartz monzonite gneiss, less mafic than 1; 2a, in part massive, glassy, white quartzite; 2b, in part red granite; 2c, brecciated; 2d, amphibole and hornblende or chlorite schist; 2e, schistose; 2f, minor Foot Bay gneiss (1).
  - 1 FOOT BAY GNEISS: red, well layered, more dark minerals than 2 quartz monzonite to granodiorite gneiss; 1a, more mafic minerals than gneiss; amphibole; 1b, in part red granite; 1c, brecciated; 1d, amphibole and hornblende or chlorite schist; 1e, contact; 1f, minor quartzite.**
  - AREA NORTH OF BOOM LAKE FAULT (10-13)**
  - 13 GRANITIC LAYERED GNEISS (UPPER BELT): 13a, granodiorite and quartz monzonite layered gneiss, in part granitized; minor granite masses; 13b, quartzite rocks, in general feldspathic and layered; quartz monzonite layers, interbedded with darker mafic-rich layers; minor granite and pegmatite dykes and sills; 13c, amphibole, hornblende-feldspar gneiss and schist, locally altered to chlorite schist; 13d, quartz-booth schist, rusty brown, locally hornblende; 13e, brecciated and mylonitized; 13f, contorted and drag-folded; 13g, minor granite bodies or dykes and sills; 13h, diopside-carbonate rock; 13i, similar to 17.
  - 12 POWERLINE CREEK BELT (11, 12): Amphibole, hornblende-feldspar gneiss, minor granite dykes and sills; 12a, minor quartzite rocks resembling 11; 12b, garnetiferous; 12c, granitized and include small granite masses; 12d, argillite and locally rich in carbonate; 12e, chloritized.
  - 11 Quartzite rocks, feldspathic, garnetiferous, and in part layered; 11a, many quartzite, in part finely bedded and schistose; 11b, minor amphibole or pyroxene; 11c, minor gneissic layered gneiss resembling 10; 11d, brecciated.
  - 10 GRANITIC LAYERED GNEISS (LOWER BELT): granodiorite and quartz monzonite layered gneiss, in part granitized; minor granite masses and pegmatite dykes and sills; 10a, amphibole or hornblende schist; 10b, pyrite rich fine-grained granoblastic rock; 10c, low in dark minerals; quartzite; 10d, fine-grained granoblastic rock, rich in dark minerals; 10e, minor granite areas, including dykes and sills; 10f, brecciated; 10g, finely layered.



**MINERALS**

Fluorite	fl	Magnetite	mag
Galena	ga	Pyrite	py
Garnet	gt	Serpentine	serp
Graphite	gf	Urnangite	um
Hematite	hem	Pitchblende	pb

To accompany GSC Memoir 367 by L.P. Tremblay  
Geological cartography by the Geological Survey of Canada  
Base-map from unpublished data by Surveys and Mapping Branch, various mining companies and from air photos  
Any revisions or additional information known to the user would be welcomed by the Geological Survey of Canada  
Approximate magnetic declination 1971, 24° 32' East, decreasing 3 1/4' annually



GEOLOGICAL SURVEY OF CANADA  
DEPARTMENT OF ENERGY, MINES AND RESOURCES

MAP 1247A  
SHEET 1  
GEOLOGY  
BEAVERLODGE MINING AREA  
SASKATCHEWAN

Scale 1:14,400  
(1 inch = 1200 Feet)

Feet 0 1000 2000 3000 4000  
Metres 0 300 600 900 1200

