

GEOLOGY AND STRUCTURE  
WESTERN LAKE ST JOSEPH  
DISTRICT OF KENORA  
NTS 52 J14-52 03

Scale: meters  
0 160 320 480 640 800

Drawn by B. Berger  
B. BERGER

LEGEND

- Granitic Intrusives
  - a. granitic rocks of the Blackstone Batholith
- 11
  - b. granodiorite
  - c. gneiss
  - d. syenite
- CARLING FORMATION
  - Layered
    - a. peridotite
    - b. pyroxenite
    - c. gabbro
    - d. granophyre
- 10
  - Mafic Intrusives
    - a. gabbro
    - b. diorite
    - c. hornblende-rich gabbro
    - d. quartz-rich gabbro
- 9
  - Metasediments
    - a. greywacke (plagioclase-rich)
    - b. arkosic wacke/microcline-rich
    - c. argillite-phyllite
    - d. pebble conglomerate
    - e. chert and siltstone
    - f. derived schists
    - IF oxide iron formation
- 8
  - Felsic Metavolcanics
    - a. massive flows
    - b. ash tuffs
    - c. lapilli tuffs
    - d. breccias
    - e. porphyries
    - f. derived schists
    - g. tuffaceous sediments
- 7
  - Mafic and Intermediate Metavolcanics
    - a. massive flows
    - b. ash tuffs
    - c. lapilli tuffs
    - d. breccias
    - e. porphyries
    - f. derived schists
    - g. tuffaceous sediments
- 6
  - Mafic and Intermediate Metavolcanics
    - a. massive flows
    - b. ash tuffs
    - c. lapilli tuffs
    - d. breccias
    - e. dikes
    - f. derived schists
    - p. pillowed lavas
    - ph. pillow breccias
- W.LAKE ST JOSEPH FORMATION
  - Felsic Metavolcanics
    - 5
      - a. massive flows
      - b. ash tuffs
      - c. lapilli tuffs
      - d. breccias
      - f. derived schists
      - g. tuffaceous sediments - greywacke
      - h. graphitic argillites
  - Mafic and Intermediate Metavolcanics
    - 4
      - a. massive flows
      - b. ash tuffs
      - c. lapilli tuffs
      - d. breccias
      - f. derived schists
      - p. pillowed lavas

- BLACKSTONE FORMATION
  - Metasediments
    - 3
      - a. greywacke
      - b. argillite-phyllite
      - c. tuffaceous sediments

- Felsic Metavolcanics
  - 2
    - a. massive flows
    - b. ash tuffs
    - c. lapilli tuffs
    - d. breccias
    - e. porphyries
    - f. derived schists

- Mafic and Intermediate Metavolcanics
  - 1
    - a. massive flows
    - b. ash tuffs
    - c. lapilli tuffs
    - f. derived schists
    - p. pillowed lavas

SYMBOLS

- bedding, dip inclined, vertical
- bedding with top by grading, cross-bed, overturned
- pillow tops; dip unknown, known
- foliation; dip inclined, vert. col. unknown
- gneissosity; vertical, dit
- bedrock; large, small outcrop
- fault, defined, inferred, assumed
- geological contact; defined, inferred, assumed
- dike; d. of hole projected to surface

- py. pyrite
- sp. galena
- island number
- mineral occurrence
- asb. asbestos
- ars. arsenic
- au. gold
- ccc. carbonates
- cp. chlorite
- gf. garnet
- m. mica
- po. pyrrhotite

