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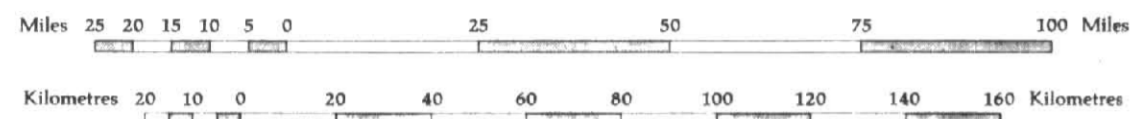


ONTARIO DEPARTMENT OF MINES

HON. ALLAN F. LAWRENCE, Minister of Mines

D. P. Douglass, Deputy Minister J. E. Thomson, Director, Geological Branch

Scale 1:1,584,000 or 1 inch to 25 miles



MINERAL OCCURRENCES REFERENCE

Table listing mineral abbreviations and their full names: Ag Silver, Asb Asbestos, Au Gold, Ce Cerium, Cu Copper, Fe Iron, La Lanthanum, mo Molybdenite, Nb Niobium, Ni Nickel, Pb Lead, S Sulphide minerals, Ti Titanium, U Uranium, Verm Vermiculite, W Tungsten, Zn Zinc.

Major occurrences are underlined

PAST PRODUCING MINES

- 1 Berens River Mines Limited Au, Ag, Pb, Zn
2 Sachigo River Exploration Company Limited Au, Ag

Preliminary Map P. 526 NORTHERN PATRICIA PORTION

DISTRICT OF KENORA

N.T.S. 43, 44D, 53, 54A, 54B

LEGEND

- Paleozoic: Devonian 14 Limestone; Silurian 13 Limestone, dolomite, siltstone, shale, mudstone, and sandstone; Ordovician 12 Limestone and sandstone.
Precambrian: Late Precambrian 11 Diabase sills; 10 Jaspilite, slate, argillite, quartzite, conglomerate, chert, dolomite, and greysacke; 9 Carbonate, alkalic intrusive rocks, and mafic intrusive rocks; 8 Diabase dikes; 7 Syenite and monzonite.
Early Precambrian: 6 Granitic rocks: quartz diorite, trondhjemite, granodiorite, quartz monzonite, granite, and pegmatite; 5 Gabbro and diorite; 4 Metagabbro and metadiorite; 3 Metasediments: greywacke, siltstone, minor slate and conglomerate, rare marble and calc-silicate gneiss; 2 Felsic and intermediate metavolcanics pyroclastic rocks and minor flows; 1 Iron formation; 1 Mafic metavolcanics: flows and minor pyroclastic rocks.

The letter "G" preceding a rock unit member, for example "G8", indicates interpretation from aeromagnetic data in large drift-covered or unmapped areas.

SYMBOLS

- Geological boundary; Boundary of positive aeromagnetic anomaly beneath Paleozoic; Positive aeromagnetic anomaly beneath Paleozoic: probably metavolcanic rocks; probably Late Precambrian iron formation or diabase; probably major structural zone; Fault: defined, assumed; Road: built, proposed; District boundary; Past producing mine; Mineral occurrence.

Assumed faults in Paleozoic area are basement faults interpreted from aeromagnetics. They are not known to affect the overlying Paleozoic rocks.

MINERAL PRODUCTION AND RESOURCES

The map area contains deposits of asbestos, copper, gold, gravel, iron, lead, molybdenum, nickel, niobium, silver, tungsten, uranium, vermiculite, and zinc. The major deposits and economic potential of the area are discussed in Ontario Department of Mines Miscellaneous Paper 28. This paper also lists most of the geological reports that pertain to the area. Further information on the mineral deposits may be obtained at the office of the Resident Geologist, Red Lake, or from the compiler in Toronto.

Table showing mineral production values for 209,900 ounces gold, 3,682,613 ounces silver, 6,105,872 pounds lead, and 1,797,091 pounds zinc.

SOURCES OF INFORMATION

Geological compilation by L.D. Ayres, 1969. Early Precambrian geology from published maps of the Ontario Department of Mines and Geological Survey of Canada, from unpublished maps of the Ontario Department of Mines and mining companies, and from interpretation of aeromagnetic maps. Late Precambrian and Paleozoic geology from Geological Survey of Canada, Map 17-1967. Base map from Ontario Department of Mines, Map 2148.

