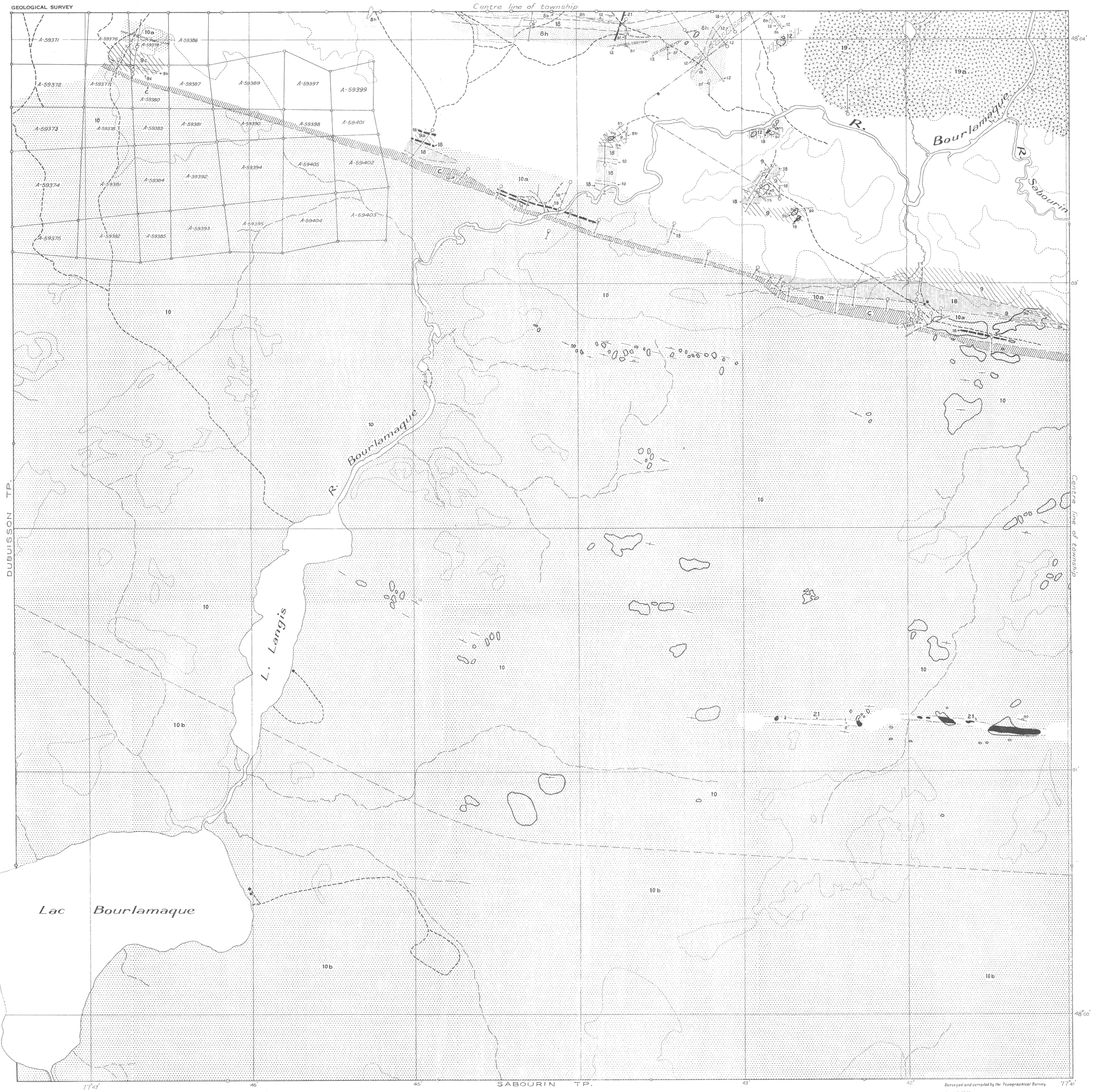
CANADA

DEPARTMENT OF MINES AND RESOURCES

MINES AND GEOLOGY BRANCH

BUREAU OF GEOLOGY AND TOPOGRAPHY

GEOLOGICAL SURVEY



LEGEND

PROTEROZOIC

- Diabase
- Porphyrytic syenite; 19a, green trachytic porphyry
- Feldspar porphyry
- Diorite

ARCHAEAN

KEEWATIN

- Greywacke, mainly biotite phase; 10a, greywacke, mainly fine-grained chlorite-sericite-biotite phase; 10b, may include recrystallized andesite
- Fine- to coarse-grained andesite; some tuff; may include diorite; 9a, tuff, rhyolite tuff; some rhyolite ?; 9b, diorite or coarse phase of andesite; 9c, sheared andesite,
- 8b, slaty tuff; 8f, andesite; 8h, agglomererate, tuff, intermediate lava, minor rhyolite

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- Talc-chlorite-carbonate schist; massive talcose amphibolite

Rock outcrop .....

Bedding (inclined, vertical, overturned, dip unknown) .....

Bedding (direction of dip known, upper side of bed unknown) .....

Bedding (upper side of bed faces as indicated, direction of dip unknown) .....

Schistosity (vertical) .....

Drill hole (inclined) .....

Shear zone, fault .....

Mineral occurrence (copper, gold) ..... Cu, Au

Geology by G. W. H. Norman, 1942, 1945.

Trail .....

Portage .....

Marsh .....

NOTE 1. An attempt has been made to set up a uniform system of rock classification for Dubuisson, Bourlamaque, and adjoining townships by dividing the rocks into 21 map-units, which will not all occur in any one quarter-township.

Use of the group terms Cadillac, Blake River, Kewagama, and Malartic is discontinued because they accentuate the problem of lithological correlation and involve several structural assumptions that cannot be proved. Instead the terms Timiskaming and Keewatin (Abitibi) will be employed with the assumption that the unconformity between these rock series in the Rouyn district also occurs in the eastern part of the Rouyn-Val d'Or gold belt, but without assuming any time equivalences of the rocks either above or below the unconformity with those of other districts.

The intrusive rocks of the region are believed to belong to three main groups. The oldest group (12, 14, 15, 16), comprising diorite, peridotite, diorite porphyries, and sodic granodiorite, may be in part pre-Timiskaming. The syenite-granodiorite (19) and granite-granodiorite group (20) are post-Timiskaming and probably pre-Cobalt. A syenite-granodiorite group (similar to 19) is cut by pegmatite of a granite-granodiorite group (similar to 20) in LaMotte township, 20 miles northwest of Val d'Or. The feldspar porphyries are of several different ages and types, most of which are allied either to the syenite-granodiorite or granite-granodiorite groups; a few belong to the oldest group.

Surveyed and compiled by the Topographical Survey.

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PRELIMINARY MAP 46-17

SOUTHWEST BOURLAMAQUE

ABITIBI COUNTY

QUEBEC

Scale:- 1 inch to 1000 feet

1000' 500' 0 1000' 2000' 3000' 4000' 5000'