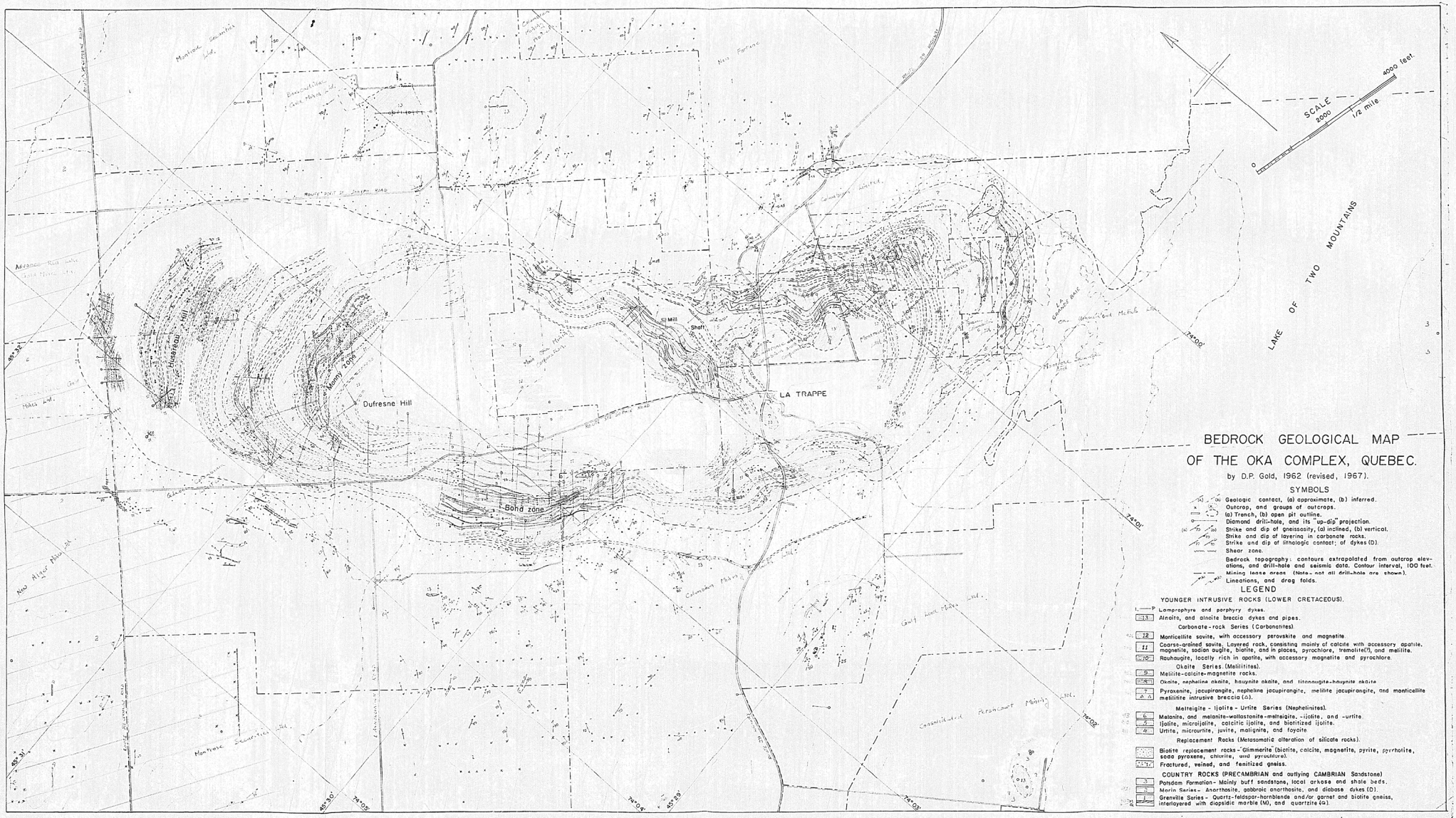

BEDROCK GEOLOGICAL MAP OF THE OKA COMPLEX, QUEBEC.

by D.P. Gold, 1962 (revised, 1967).

SYMBOLS

- (a) (b) Geologic contact, (a) approximate, (b) inferred.
- Outcrop, and groups of outcrops.
- (a) Trench, (b) open pit outline.
- Diamond drill-hole, and its "up-dip" projection.
- (a) (b) Strike and dip of gneissosity, (a) inclined, (b) vertical.
- Strike and dip of layering in carbonate rocks.
- Strike and dip of lithologic contact; of dykes (D).
- Shear zone.
- Bedrock topography: contours extrapolated from outcrop elevations, and drill-hole and seismic data. Contour interval, 100 feet.
- Mining lease areas (Note - not all drill-hole are shown).
- Lineations, and drag folds.

LEGEND

YOUNGER INTRUSIVE ROCKS (LOWER CRETACEOUS).

- L, P Lamprophyre and porphyry dykes.
- 13 Alnoite, and alnoite breccia dykes and pipes.

Carbonate-rock Series (Carbonatites).

- 12 Monticellite sovite, with accessory perovskite and magnetite.
- 11 Coarse-grained sovite. Layered rock, consisting mainly of calcite with accessory apatite, magnetite, sodian augite, biotite, and in places, pyrochlore, tremolite(?), and melilite.
- 10 Rauhaugite, locally rich in apatite, with accessory magnetite and pyrochlore.

Okaite Series (Melilitites).

- 9 Melilite-calcite-magnetite rocks.
- 8 Okaite, nepheline okaite, hauynite okaite, and titanaugite-hauynite okaite.
- 7 Pyroxenite, jacupirangite, nepheline jacupirangite, melilite jacupirangite, and monticellite melilitite intrusive breccia (Lo).

Meltegite - Ijolite - Urtite Series (Nephelinites).

- 6 Melanite, and melanite-wollastonite-meltegite, -ijolite, and -urtite.
- 5 Ijolite, microijolite, calcitic ijolite, and biotitized ijolite.
- 4 Urtite, microurtite, juvite, malignite, and foyaite.

Replacement Rocks (Metasomatic alteration of silicate rocks).

- Biotite replacement rocks - "Glimmerite" (biotite, calcite, magnetite, pyrite, pyrrhotite, soda pyroxene, chlorite, and pyrochlore).
- Fractured, veined, and fenitized gneiss.

COUNTRY ROCKS (PRECAMBRIAN and outlying CAMBRIAN Sandstone)

- 3 Potsdam Formation - Mainly buff sandstone, local arkose and shale beds.
- 2 Morin Series - Anorthosite, gabbroic anorthosite, and diabase dykes (D).
- 1 Grenville Series - Quartz-feldspar-hornblende and/or garnet and biotite gneiss, interlayered with diopsidic marble (M), and quartzite (Q).

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