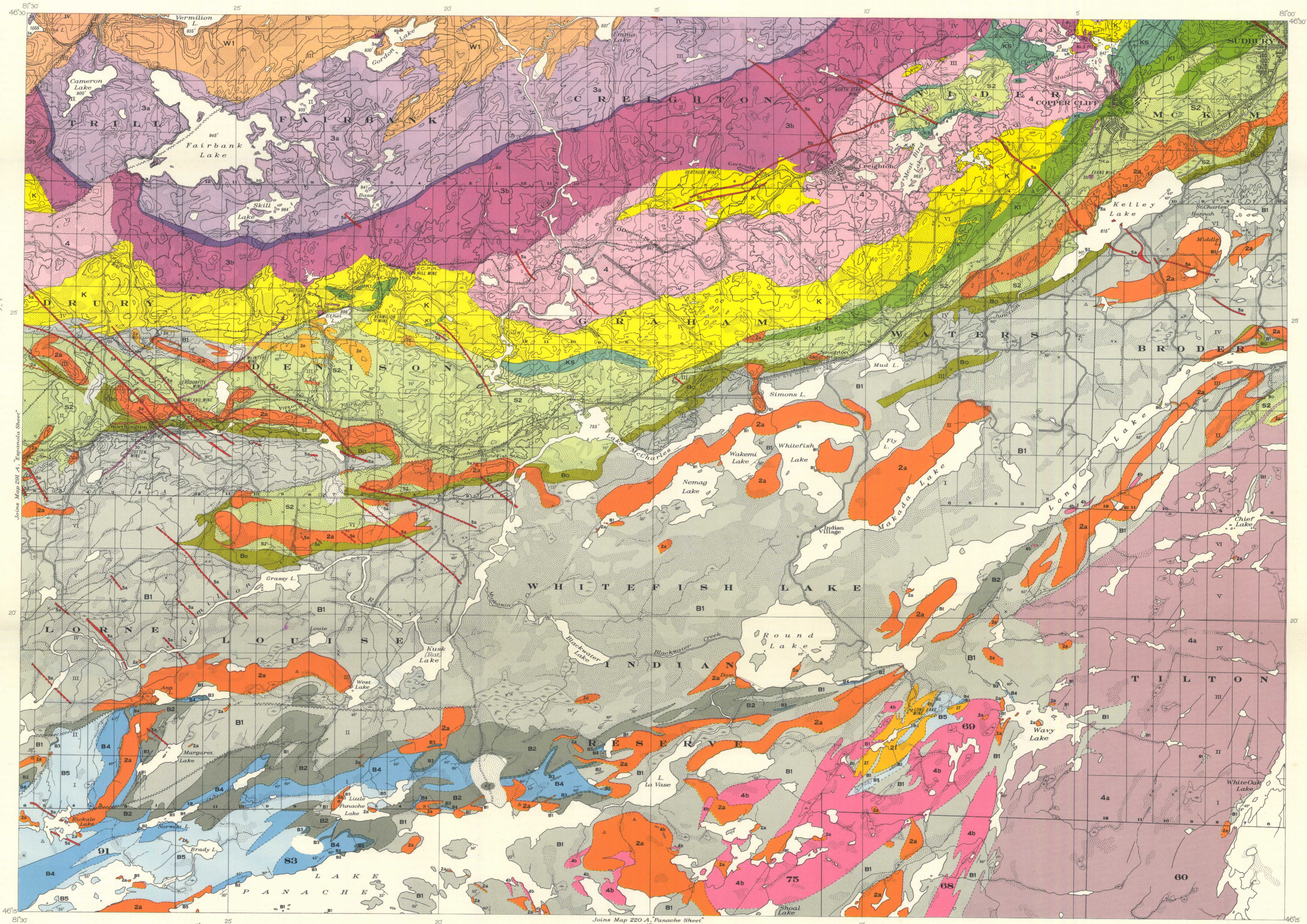


LEGEND

- RECENT AND PLEISTOCENE**
- Blacial drift, stratified lake beds (sand and clay)
 - Small rock outcrops
- LATE PRECAMBRIAN**
- 5a, b** BASIC INTRUSIVES
 - a - Quartz diabase dykes
 - b - Quartz-bearing greenstone dykes
 - 4b** BATHOLITHIC INTRUSIVES
 - Polish-rich granite, pegmatite
 - KEWEENAWAN (?)**
 - 3a** NICKEL-BEARING IRRUPTIVE
 - Granophytic acid edge differentiate
 - 3c** Transition zone
 - 3b** Noritic basic edge differentiate
- WHITWATER SERIES**
- W3** CHELMSFORD SANDSTONE
 - Grey feldspathic quartzite
 - W2** ONWATIN SLATE
 - Dark carbonaceous and graphitic slate
 - W1** ONAPING TUFF
 - Course to fine, porphyritic of intermediate to acid composition, locally conglomeratic; lava flows; also includes dykes of several kinds and large fragments and layers of quartzite
- KILLARNEAN**
- 4a** Stratifrom mixture of pink and grey gneisses and minor bodies of *g*. The pink gneisses are closely related to 4b above; the other gneisses are probably, and in some cases certainly, metamorphosed Huronian and pre-Huronian formations
 - 4** BATHOLITHIC INTRUSIVES (possibly same age as 4b)
 - Polish-rich granite, pegmatite
 - 2a, 2b, g** BASIC INTRUSIVES (Nipissing diabase, etc.)
 - a - Silty, dykes and flows of quartz diabase
 - b - Gabbros with orthoamphibole pyroxene
 - c - Red weathering greenstone
 - d - Felsic quartzite intrusives
 - e - Hornblende gabbros
 - f - Quartz and associated rock types
 - g - Brown weathering dykes within nickel basin
- COBALT SERIES**
- Co3** BANDED CHERTY QUARTZITE
 - Fine grained thin-bedded chert-like quartzite, grey or varicoloured
 - Co2** LORRAIN QUARTZITE
 - White feldspathic quartzite with some lenses of quartz-pebble conglomerate
 - Co1** GOWGANDA FORMATION
 - A variable assemblage of boulder conglomerate, greywacke, laminated, curved, greywacke and impure quartzite, of fluvial, glacial or glacial origin
- HURONIAN**
- BRUCE SERIES**
 - B5** SERPENT QUARTZITE
 - White feldspathic quartzite, occasional argillite members
 - B4** ESPANOLA FORMATION
 - Thin-bedded recrystallized calcareous silt, with some beds of magnesian limestone (marble)
 - B3** Siliceous magnesian limestone (marble), with thin alternating beds of recrystallized calcareous silt (formerly called Bruce limestone)
 - B2** BRUCE CONGLOMERATE
 - Boulder conglomerate, with some layers of greywacke
 - B1** MISSISSAGI QUARTZITE
 - White feldspathic quartzite, often with argillite partings; occasional argillite members
 - Bo** RAMSAY LAKE CONGLOMERATE
 - Bouldery to pebbly conglomerate grading into greywacke and quartzite
- ALGOMAN AND/OR LAURENTIAN**
- I** BATHOLITHIC INTRUSIVES
 - Polish-poor granite and gneiss, pegmatite
- SUDBURY SERIES**
- S2** MCKIM FORMATION
 - Dark grey slate and white quartzite with intergradations; some thin beds of conglomerate
- KEEWATIN**
- KS** Usually wide and intricate parts of the transition zone between Keweenaw and Sudbury series, which consists of repeated alternations of volcanic and sedimentary materials and represents disintegration and final replacement of Keweenaw volcanism by Sudburian sedimentation
 - K1** COPPER CLIFF FORMATION
 - Massive, pink weathering rhyolite and related rocks (Copper Cliff) various of earlier maps
 - K** Schistified complex of volcanics, local intercalations of clastic sediments, iron formation
- Symbols**
- Geological boundary (defined)
 - Geological boundary (approximate)
 - Strike obtained from aerial photographs
 - Strike and dip measured on ground
 - Schistosity
 - Fault (defined, approximate)
 - Mine
 - Prospect pit
- Geology by W.E. Collins and assistants, 1916, 1917, 1920, 1921, 1923, 1924; E.S. Moore, 1929, and by B.C. Freeman, 1931.



MAP 292 A
COPPER CLIFF SHEET
 SUDBURY DISTRICT
 ONTARIO

Scale, $\frac{1}{62500}$ or 1 Inch to 1 Mile
 Miles
 Kilometres

Approximate magnetic declination, 7° West

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- Legend**
- Road and buildings
 - Road not well travelled
 - Road along township boundary
 - Trail or portage
 - Railway
 - Power transmission line
 - Power transmission line along road
 - Power transmission line along railway
 - Church
 - School
 - Post office
 - Triangulation station
 - Rapid or fall
 - Marsh
 - Form lines, approximate interval 50 feet
 - Height in feet
- Compiled and reproduced by the Bureau of Geology and Topography from information supplied by Federal and Provincial Government Departments.