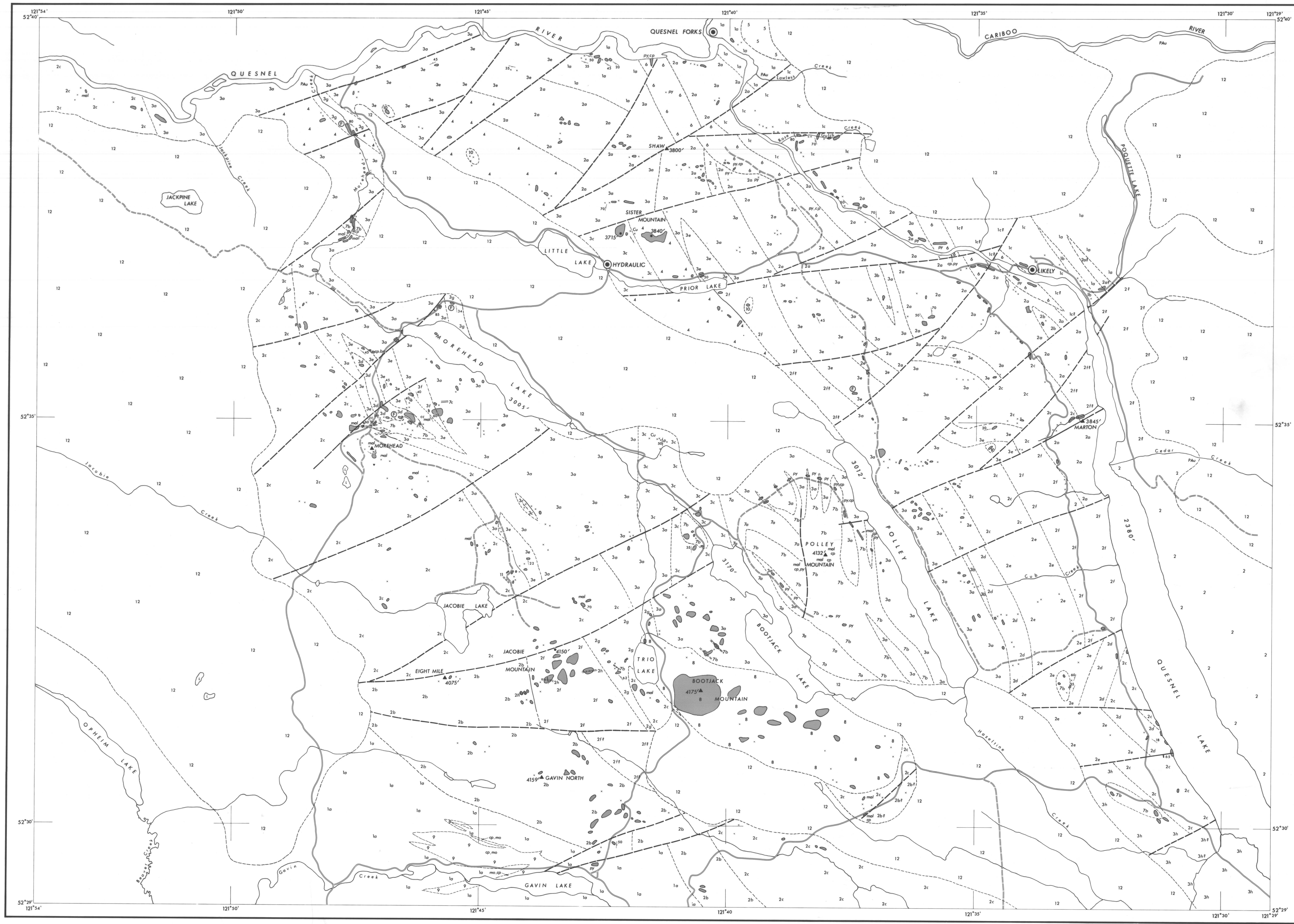
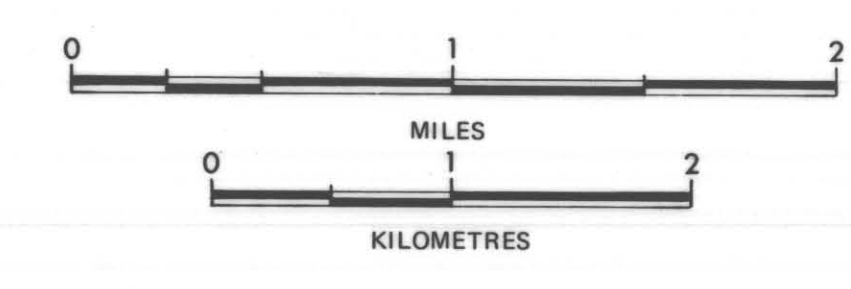


Prelim Map 20  
Duplicate



BRITISH COLUMBIA  
DEPARTMENT OF MINES AND PETROLEUM RESOURCES  
PRELIMINARY MAP NO. 20  
JULY, 1976  
GEOLOGY OF THE  
MOREHEAD LAKE AREA  
CENTRAL BRITISH COLUMBIA  
BY DAVID G. BAILEY



LEGEND

- |  |  |   |  |
|--|--|---|--|
| <b>SEDIMENTARY AND VOLCANIC ROCKS</b>  |  | <b>INTRUSIVE ROCKS</b>  |  |
| <b>PLEISTOCENE AND RECENT</b>  |  |   |  |
| 12 - GLACIAL, FLUVIOGLACIAL, AND FLUVIAL GRAVEL AND SAND   |  |   |  |
| <b>CRETACEOUS OR TERTIARY</b>  |  |   |  |
| 5 - QUARTZFELDSPATHIC SANDSTONE AND GRIT   |  |   |  |
| <b>LOWER JURASSIC</b>  |  | <b>LOWER JURASSIC</b>   |  |
| <b>SINEMURIAN ?</b>  |  | <b>SINEMURIAN ?</b>   |  |
| 4 - MAROON AMYGDALOIDAL DIOPSIDE-ANALCITE, DIOPSIDE-ANALCITE-PLAGIOCLASE BASALTIC ANDESITE AUTOBRECCIATED FLOWS, MINOR LAHARIC DEPOSITS  |  | 11 - FINE-GRAINED PINK PORPHYRITIC QUARTZ SYENITE                         |  |
| <b>HETTANGIAN</b>  |  | <b>HETTANGIAN</b>   |  |
| UNIT 3: POLYLITHOLOGIC LAHARIC BRECCIAS, FELSIC BRECCIAS AND FLOWS, FELSIC SANDSTONE, MUDSTONE, GREYWACKE, GRIT, CONGLOMERATE, AND LIMESTONE   |  | UNIT 7: SYENITE, MONZONITE, AND DIORITE                                   |  |
| 3h - POLYLITHOLOGIC FELSIC BRECCIAS CONTAINING ANGULAR CLASTS OF ARGILLITE, LIMESTONE, AND FELSIC VOLCANIC MATERIAL; GREY CALCAREOUS MUDSTONE AND SANDSTONE  |  | 7b - FINE TO MEDIUM-GRAINED, GREY AND PINK PYROXENE SYENITE AND MONZONITE |  |
| 3g - DARK GREY CALCAREOUS MUDSTONE, GREYWACKE AND CONGLOMERATE CONTAINING CARBONACEOUS MATERIAL, PELECYPODS, BRACHIOPODS, AMMONITES, AND SOLITARY CORALS   |  | 7c - FINE-GRAINED MEDIUM TO LIGHT GREY AUGITE DIORITE AND SYENODIORITE    |  |
| 3f - GREY AND MAROON FELSIC CONGLOMERATE AND CONGLOMERATIC BRECCIA   |  | 6 - FINE TO MEDIUM-GRAINED GREY HORNBLende-AUGITE DIORITE AND MONZONITE   |  |
| 3e - GREY, PINK, AND MAROON FELSIC TO INTERMEDIATE SANDSTONE; MINOR FELSIC CONGLOMERATES   |  |   |  |
| 3d - MASSIVE GREY LIMESTONE, LOCALLY FOSSILIFEROUS   |  |   |  |
| 3c - MONOLITHOLOGIC SYENITE AND TRACHYTE BRECCIAS, TUFFS, AND TUFFACEOUS BRECCIAS  |  |   |  |
| 3b - MAROON POLYLITHOLOGIC ANALCITE-BEARING FELSIC TO INTERMEDIATE VOLCANIC BRECCIAS   |  |   |  |
| 3a - GREY AND MAROON POLYLITHOLOGIC LAHARIC BRECCIAS CONTAINING CLASTS OF FELSIC, INTERMEDIATE, AND BASIC VOLCANIC AND INTRUSIVE MATERIAL, IN MATRIX OF VARIABLE COMPOSITION; MINOR FELSIC FLOW MATERIAL |  |   |  |
| <b>UNIT 2: BASIC VOLCANIC FLOWS, BRECCIA, LAHARIC DEPOSITS, AND VOLCANIClastic SEDIMENTARY ROCKS</b>   |  |   |  |
| 2h - GREEN PORPHYRITIC PYROXENE-PLAGIOCLASE ANDESITE   |  |   |  |
| 2g - GREEN AND MAROON HORNBLende AND HORNBLende-DIOPSIDE BASALTIC ANDESITE BRECCIA; MINOR DARK SANDSTONE AND ARGILLITE   |  |   |  |
| 2f - POLYLITHOLOGIC BASIC LAHARIC BRECCIAS CONTAINING SOME FELSIC CLASTS; MINOR TUFFS AND TUFFACEOUS SANDSTONE   |  |   |  |
| 2e - MAROON DIOPSIDE-ANALCITE BASALTIC ANDESITE BRECCIA, AND DIOPSIDE-ANALCITE-PLAGIOCLASE BASALTIC ANDESITE AUTOBRECCIATED FLOWS AND LAHARIC DEPOSITS   |  |   |  |
| 2d - GREEN AND GREY DIOPSIDE-ANALCITE AND DIOPSIDE-ANALCITE-PLAGIOCLASE BASALTIC ANDESITE AUTOBRECCIATED FLOWS AND LAHARIC DEPOSITS  |  |   |  |
| 2c - MAROON DIOPSIDE BASALTIC ANDESITE AND DIOPSIDE-PLAGIOCLASE BASALTIC ANDESITE FLOWS AND BRECCIAS; MINOR ANALCITE-BEARING BASALTIC ANDESITE LAHARIC DEPOSITS AND MAROON BASALTIC SANDSTONE            |  |   |  |
| <b>UPPER TRIASSIC ?</b>  |  |   |  |
| <b>RHAETIAN ?</b>  |  |   |  |
| 2b - GREEN AND GREY DIOPSIDE BASALTIC ANDESITE AND DIOPSIDE-PLAGIOCLASE BASALTIC ANDESITE FLOW, LAVAS, PILLOW BRECCIA, AUTOBRECCIATED FLOWS; MINOR BASIC LAHARIC DEPOSITS, TUFFACEOUS SANDSTONE          |  |   |  |
| 2a - GREEN AND GREY HORNBLende-DIOPSIDE (OR DIOPSID AUGITE) ANDESITE AUTOBRECCIATED FLOW, HORNBLende-DIOPSIDE ANDESITE LAHARIC DEPOSITS; MINOR BASIC SANDSTONE AND ARGILLITE                             |  |   |  |
| <b>NORIAN ?</b>  |  |   |  |
| <b>UNIT 1: ARGILLITE, SANDSTONE, CONGLOMERATE, AND LIMESTONE</b>   |  |   |  |
| 1c - CHERT AND LIMESTONE PEBBLE CALCAREOUS CONGLOMERATE; MINOR VOLCANIC CONGLOMERATE, ARGILLITE, AND SANDSTONE   |  |   |  |
| 1b - DARK GREY MASSIVE LIMESTONE   |  |   |  |
| 1a - DARK GREY AND BLUE-GREY CALCAREOUS ARGILLITE AND SANDSTONE; MINOR CONGLOMERATE AND ANDESITE BRECCIA; VOLCANIClastic SEDIMENTARY ROCKS NEAR CONTACT WITH UNIT 2                                      |  |   |  |

- |                    |                            |
|--------------------|----------------------------|
| bo = BORNITE       | mal = MALACHITE            |
| cc = CHALCOITE     | mo = MOLYBDENITE           |
| cp = CHALCOPYRITE  | py = PYRITE                |
| cu = NATIVE COPPER | pl = PLACER DEPOSIT - GOLD |

SYMBOLS

- BEDDING ATTITUDE: RIGHT SIDE UP, TOP UNKNOWN
- VOLCANIC FLOW DIRECTION AND DIP (IF KNOWN)
- GEOLOGICAL CONTACT: KNOWN, INFERRED
- FAULT: KNOWN, INFERRED
- OUTCROP
- ELEVATION IN FEET
- FOSSIL LOCALITY

Geology of Mount Polley Stock after Bailes (unpublished M.Sc. Thesis, University of Manitoba, 1970) with modification by Bailey.  
Geology of Gavin Lake Stock after C. J. Hodgson (Assessment Report 2733, 1970).

