

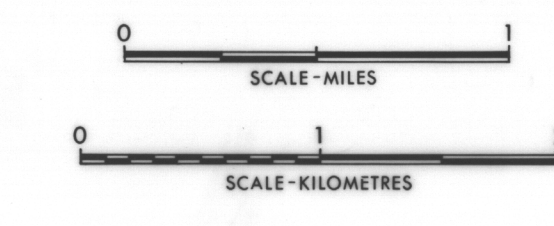
GEOLOGY OF GERMANSEN LAKE AREA
 BY H.D. MEADE

LEGEND

- TERTIARY**
 UNIT 12: RHYOLITE - WHITE TO LAVENDER, MEDIUM GRAINED, MASSIVE; WITH PERIPHERAL BEDDED AND FOLIATED TUFF
- CRETACEOUS**
 UNIT 11: GERMANSEN BATHOLITH - FOLIATED PORPHYRYTIC BIOTITE GRANODIORITE WITH MINOR PEGMATITE, SCHLIEREN, AND HOLOFELSIC MONZONITE AND QUARTZ MONZONITE DYKES
- UPPER TRIASSIC - CRETACEOUS**
 UNIT 10: HOSEM BATHOLITH - HOLOFELSIC TO MESOCRATIC, RANGING IN COMPOSITION FROM GABBROS AND DIORITES TO SYENITE AND GRANITE
- UPPER TRIASSIC - LOWER JURASSIC**
 TAKLA GROUP
 UNIT 9: PORPHYRYTIC ANDESITE - PLAGIOCLASE PHENOCRYSTS PRESENT IN ALL ROCKS: (a) GREY, MAROON, AND GREEN ANDESITE, TUFF BRECCIA, AND LAPILLI TUFF; (b) MAROON TO GREEN, PORPHYRYTIC ANDESITE BRECCIA, VOLCANIC CONGLOMERATE, WACKE, AND MUDFLOW CONTAINING FRAGMENTS OF UNITS 7b, 8, AND 9c; (c) TRACHYTIC MAROON ANDESITE FLOW OR SUBVOLCANIC INTRUSION
 UNIT 8: PORPHYRYTIC BASALTIC ANDESITE - HORNBLENDE PHENOCRYSTS, DARK GREEN, MODERATELY MAGNETIC FLOWS AND VOLCANIC BRECCIA
 UNIT 7: PORPHYRYTIC BASALT - ALL UNITS HAVE AGUITE PHENOCRYSTS: (a) GREEN PORPHYRYTIC BASALT AND FLOW BRECCIA WITH ABUNDANT MAGNETITE; (b) VARIABLY MAGNETIC MAROON AND GREY BASALT, FLOW BRECCIA, TUFF BRECCIA, AND BEDDED LAPILLI AND ASH TUFFS; AMYGDALOIDAL, SPECULARITE BEARING, AND PLAGIOCLASE PHENOCRYST VARIETIES; (c) GREEN, PORPHYRYTIC AND AMYGDALOIDAL AGUITE BASALT AND VOLCANIC BRECCIA WITH MINOR MAROON EQUIVALENTS
 UNIT 6: SANDSTONE AND AMYGDALOIDAL BASALT - (a) OLIVE GREEN TO BROWN WEATHERING, BLUE-GRAY TO GREEN VOLCANIC SANDSTONE AND WACKE; (b) BLUE-GRAY TO GREEN AMYGDALOIDAL BASALT, COARSE VOLCANIC BRECCIA AND LOCALLY VOLUMINOUS VOLCANIC CONGLOMERATE AND WACKE; (c) GREY TO BROWN WEATHERING, GREY AND BLACK THIN-BEDDED SILTSTONE AND FRAGMENTAL BASALT OR ANDESITE; CONTAINS UBIQUITOUS PYRITE AND PYRRHOTITE
 UNIT 5: FELSIC TUFF AND VOLCANIC SILTSTONE - DOLOMITIC, CARBONACEOUS, THIN-BEDDED ROCKS THAT WEATHER TO LIMONITE-STAINED OUTCROPS
 UNIT 4: BASALT, BASALTIC ANDESITE, AND SANDSTONE AND WACKE - (a) BLUE-GRAY TO GREEN, WEAKLY MAGNETIC AGUITE - PLAGIOCLASE BASALT, TUFF BRECCIA, AND VOLCANIC CONGLOMERATE; (b) BROWN WEATHERING, BLUE-GRAY TO GREEN, THIN-BEDDED TO MASSIVE, VOLCANIC SANDSTONE AND WACKE WITH DISSEMINATED PYRITE AND CARBONATE; (c) DARK GREY-GREEN TO BROWN, NON-MAGNETIC, PORPHYRYTIC HORNBLENDE - PLAGIOCLASE BASALTIC ANDESITE, TUFF BRECCIA, AND MINOR MUDFLOW BRECCIA
 UNIT 3: BRECCIA AND SANDSTONE - BLACK SILICIFIED SILTSTONE FRAGMENTS IN A GREY MATRIX; BRECCIA IS INTERBEDDED WITH VOLCANIC SANDSTONE, SILTSTONE, AND ARGILLACEOUS CHERT
 UNIT 2: BASALTIC ANDESITE - FOLIATED, GREY TO BROWN HORNBLENDE BASALTIC ANDESITE WITH INTERCALATED PYRITIC TUFF, AND GREEN AGUITE BASALT
 UNIT 1: SEDIMENTARY AND VOLCANIC ROCKS - ARGILLITE, BLACK CHERT, LIMESTONE, FOLIATED TUFF AND SILTSTONE, SCHIST, PHYLLITE, AND FOLIATED HORNBLENDE ANDESITE; INTRUDED BY DYKES OF THE GERMANSEN BATHOLITH

SYMBOLS

- GEOLOGICAL CONTACTS: OBSERVED, ASSUMED
- FAULTS: OBSERVED, ASSUMED
- AIRCROPPING LINES
- AIRPHOTO LINEARS
- METAL OCCURRENCES
 py = PYRITE Cu = NATIVE COPPER
 pr = PYRRHOTITE ml = MAGNETITE
 cp = CHALCOPYRITE ml = MALACHITE
 cc = CHALCOITE
- BEDDING ATTITUDE
- FOLIATION
- GRANITIC DYKE
- TRAP DYKE
- DEPARTMENT OF MINES AND PETROLEUM RESOURCES, GRAVEL ROAD
- TYPE AREA OF UNIT 1
- RIDGES



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