



**GEOLOGY OF OWEEGEE DOME**  
 DELTA PEAK (104A/12) AND TAFT CREEK (104A/11W) MAP AREAS,  
 NORTHWESTERN BRITISH COLUMBIA  
 C. J. GREIG and C. A. EVENCHICK  
 (with contributions by M.H. Gunning, B.D. Ricketts and S.P. Porter)  
 Scale 1:50,000

**LEGEND**

**QUATERNARY**  
 Q thick drift: colluvium, alluvium, till.

**STRATIFIED ROCKS**

**MIDDLE(?) AND UPPER JURASSIC TO LOWER CRETACEOUS(?)**  
 BOWSER LAKE GROUP  
 JKbc chert litharenite lithofacies: fine to medium grained, moderately well sorted chert litharenite, interbedded silty mudstone, common bivalve coquinae, rare chert pebble conglomerate.

**MIDDLE(?) AND UPPER JURASSIC**  
 BOWSER LAKE GROUP  
 JBs silty mudstone lithofacies: bioturbated silty mudstone with regularly interbedded, buff weathering, Fe-carbonate cemented fine grained sandstone.  
 JBa arkosic volcanic litharenite turbidite lithofacies: thin and medium bedded, fine to medium grained, poorly sorted arkosic litharenite with interbedded silty mudstone.  
 JBp pyritic silty mudstone lithofacies: pyritic, siliceous, tuffaceous silty mudstone, fine to medium grained lithic arkose.

**LOWER AND MIDDLE JURASSIC**  
 HAZELTON GROUP  
 SALMON RIVER FORMATION

LMJSa thin bedded siliceous silty mudstone, clay-altered dust tuff(?), discontinuous limestone lenses.  
 LMJSb amygdaloidal pillow basalt, basal pillow breccia, tuff-breccia and debris flow breccia.  
 LMJSr rhyodacite lapilli tuff-breccia; locally welded.  
 LMJS fossiliferous limy, coarse grained arkose; polymict pebble, boulder and cobble conglomerate.  
 LMJSp pyritic silty shale and mudstone.  
 LMJS undivided Spatsizi Group

**LOWER JURASSIC**  
 HAZELTON GROUP

LjHr felsic lapilli tuff-breccia, ash and dust tuff.  
 LjHc boulder and cobble conglomerate, pebbly sandstone, well-stratified, green and maroon ash, lapilli and dust tuff, tuffaceous arkose and mudstone.  
 LjHv intermediate to mafic plagioclase-pyroxene and subordinate plagioclase-hornblende pyritic lapilli tuff-breccia, lapilli, ash and dust tuff, flows, derived debris flows, arkose and siltstone.  
 LjHa thick bedded and massive tuffaceous arkose and siltstone with abundant syn-depositional soft-sediment deformation structures; mafic to intermediate fragmental volcanic rocks and associated debris flows.

**UPPER TRIASSIC**  
 STUHNIG GROUP  
 UTSa plagioclase-pyroxene crystal tuff turbidite arkose and siltstone, plagioclase-pyroxene pyritic mafic to intermediate lapilli and ash tuff, tuff-breccia and rare flows; minor limestone lenses.

**PALEOZOIC**  
 STIKINE ASSEMBLAGE

PERMIAN  
 Psi medium and thick bedded to massive bioclastic limestone with chert interlayers; thin-bedded micrite.  
 DEVONIAN AND MISSISSIPPIAN  
 DMSv mafic to intermediate plagioclase-pyroxene pyritic lapilli tuff, lapilli tuff-breccia, and flows; plagioclase pyritic amygdaloidal andesite(?) flows; rhyolite and rhyodacite lapilli tuff-breccia.

**INTRUSIVE ROCKS**  
 MJI pyroxene diorite sills.

**MAP SYMBOLS**

Limit of thick Quaternary drift.  
 Geologic contact: defined, approximate, inferred.  
 Thrust or reverse fault, defined, approximate, inferred; teeth on upthrown side.  
 High angle fault, defined, approximate, inferred; ball on downthrown side.  
 Bedding: inclined, vertical, overturned; estimated: vg=very gentle(<10°), g=gentle(10°-30°), m=moderate(30°-50°), s=steep(50°-70°), vs=very steep(>70°).  
 Bedding foldlines.  
 Cleavage: inclined, vertical.  
 Minor fold axis, plunge.  
 Anticline, overturned anticline, trace of axial surface: defined, approximate; arrow indicates vergence direction.  
 Syncline, overturned syncline, trace of axial surface: defined, approximate; arrow indicates vergence direction.  
 Line of cross-section.  
 Fossil locality.

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**O.F. 2688**

**DELTA PEAK**  
 CASSIAR LAND DISTRICT  
 BRITISH COLUMBIA / COLOMBIE-BRITANNIQUE  
 Scale 1:50,000 / Échelle 1:50,000  
 METERS / MÈTRES 0 1000 2000 3000 4000 5000  
 FEET / PIEDS 0 100 200 300 400 500 600 700 800 900 1000  
 CONVERSION SCALE FOR ELEVATIONS / ÉCHELLE DE CONVERSION DES ALTITUDES  
 METERS TO FEET / MÈTRES EN PIEDS  
 FEET TO METERS / PIEDS EN MÈTRES

**TAFT CREEK**  
 CASSIAR LAND DISTRICT  
 BRITISH COLUMBIA  
 Scale 1:50,000 / Échelle 1:50,000  
 METERS / MÈTRES 0 1000 2000 3000 4000 5000  
 FEET / PIEDS 0 100 200 300 400 500 600 700 800 900 1000  
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