

DESCRIPTION OF MAP UNITS

QU ALLUVIAL DEPOSITS, UNDIFFERENTIATED (Holocene) - Unconsolidated gravel, sand, and silt deposits in presently active stream channels and floodplains; thickness 0-6 m.

Qa COLLUVIUM AND SLOPEWASH (Holocene) - Boulder colluvium and slopewash chiefly along eastern margin of Ogden Valley; in part, late from Tertiary units; thickness 0-30 m.

Qf ALLUVIAL FAN DEPOSITS (Holocene) - Alluvial fan deposits; nodules at least in part, from of highest stand of former Lake Bonneville; thickness 0-30 m.

Ql LANDSLIDE DEPOSITS (Holocene) - thickness 0-6 m.

Qs TALUS DEPOSITS (Holocene) - thickness 0-6 m.

Qv TERRACE AND DELTAIC DEPOSITS (Pleistocene) - In North Fork Ogden River, gravel, sand, and silt in stream terraces graded to high stand of former Lake Bonneville; at mouth of Middle and South Fork Ogden River, point-bar sand and silt (in delta?) remains deposited during high stands of Lake Bonneville; thickness 0-6 m.

Qz SILT DEPOSITS (Pleistocene) - Tan silt and sand forming extensive flats in Ogden Valley; deposited during high stands of Lake Bonneville; may include older alluvial units; thickness 0-6 m.

Qc GRAVEL AND COBBLE DEPOSITS (Pleistocene) - In Ogden Canyon, gravel and cobble terrace remnants, probably deposited after time of highest stand of Lake Bonneville; thickness 0-3 m.

Qd OLDER GRAVEL DEPOSITS (Pleistocene) - North of Huntsville, cobble, gravel, and sand deposit that probably predates high stands of Lake Bonneville; thickness 21 m.

Qe NORWOOD TUFF (Lower Oligocene and upper Eocene) - Fine to medium-bedded, fine-grained, friable, white to buff weathering tuff and sandy tuff, probably waterlain and in part reworked; thickness 0-450(17) m.

Qk WATASH AND EVANSTON FORMATIONS, UNDIVIDED (Eocene, Paleocene, and Upper Cretaceous) - Unconsolidated pale-reddish-brown pebbles, cobble, and boulder conglomerate; forms bedrock-covered slopes. Contains many Precambrian quartzite and are, gray, or purple; matrix is usually poorly consolidated sand and silt; thickness 0-150 m.

MB LOWER PLATE OF WILLARD THRUST (Middle Cambrian) - Medium-bedded, commonly crossbedded, medium- to fine-grained, gray to tan weathering quartzite, commonly with thin beds and lenses of dark gray to black chert; interbedded dark to light gray medium-bedded dolomite; thickness 3000+ m.

MD BERTLET LIMESTONE (Upper and Lower Mississippian) - Medium- to thin-bedded, coarsely to finely crystalline, medium-gray to pale-brown weathering, dark to light-gray dolomite and limestone, commonly with thin beds and lenses of dark gray to black chert; at base, thickness 60-75 m.

ME GARRISON LIMESTONE (Lower Mississippian) - Upper part finely to coarsely crystalline, thick bedded to massive, dark-gray to pale-brown weathering, medium to dark-gray fossiliferous dolomite with thin beds and lenses of light- to dark-gray chert. Lower part finely to medium crystalline, blue to medium-bedded, commonly platy weathering, dark gray to black, light-gray to blue-gray weathering fossiliferous dolomite; thickness 90-200 m.

DR BIRDAULT SANDSTONE (Upper Devonian) - Medium-bedded to lensoidal, fine to medium-grained sandstone, dolomitic sandstone, and dolomite with minor limestone, medium, shale, and quartzite; intraformational conglomerate common; weathers to buff, tan, orange, and brown; thickness 7-50 m.

DE HYRUM DOLOMITE (Upper and Middle Devonian) - Thin to thick-bedded, fine to medium-grained, dark gray to black, dark to light-gray weathering, cliff-forming dolomite; minor interbedded gray limestone and silt limestone; 2-12 m of medium-grained, buff to tan weathering dolomitic sandstone locally present in upper 30 m of unit; thickness 107 m.

DP WATER CANYON FORMATION (Lower Devonian) - Thinly bedded to laminated, fine-grained, silty dolomite, and sandy dolomite; thickness 21 m.

OP FISH HAVEN DOLOMITE (Upper Ordovician) - Medium- to thick-bedded, medium to finely crystalline, medium- to light-gray, weathering, cliff-forming dolomite; upper 2 m medium to pale gray; lower, cliff-forming dolomite, blue marked by very pale gray to silty; small white twiggy structures and

remnants of corals and crinoid columnals common throughout unit; thickness 60-69 m.

GC GARDEN CITY FORMATION (Middle and Lower Ordovician) - Thin to medium-bedded, medium- to pale-gray and tan, tan to buff weathering dolomite, commonly with sandy streaks and lenses. Interbedded and intercalated with thinly laminated, medium-gray to tan, tan to buff weathering siliceous containing nodules and lenses of dolomite; thickness 60-75 m.

SC ST. CHARLES LIMESTONE (Upper Cambrian) - Includes Dolomite member - Thin to thick-bedded, finely to medium crystalline, light to medium gray, white to light gray weathering, cliff-forming dolomite; lensoidal brachiopod common in basal 15 m; thickness 150-245 m.

WC Worm Creek Quartzite Member - Thin-bedded, fine to medium-grained, medium- to dark-gray, tan to brown weathering carbonaceous quartzite sandstone; detrital grains well-sorted and well-sorted; thickness 6 m.

NO NOVINAN DOLOMITE (Upper and Middle Cambrian) - Thin to thick-bedded, finely crystalline, medium-gray, light to medium gray weathering, cliff-forming dolomite; white twiggy structures common throughout unit; thickness 150-230 m.

CF CALLS FORT SHALE MEMBER OF BLOOMINGTON FORMATION (Cambrian) - Olive-drab to light-brown shale and light to dark blue-gray limestone with interbedded orange to rusty-brown silt limestone; intraformational conglomerate common throughout unit; thickness 2-30 m.

CM MAXFIELD LIMESTONE (Middle Cambrian) - Upper part thin-bedded, finely crystalline, medium- to dark-gray, ledge-forming dolomite, often with interbedded light gray to white laminated dolomite, includes distinctive light gray to white laminated dolomite, underlain by light- and dark-gray weathering limestone. Middle part dominantly olive-drab to greenish-brown micaceous shale, with interbedded medium- to dark-gray limestone and thin-bedded, light-blue-gray, ledge-forming limestone and shaly limestone, with some greenish-olive-drab shale. Base of lower unit is finely crystalline, medium-blue-gray, light-gray weathering limestone, commonly with interbedded tan to orange-brown silt limestone, and locally containing orange-brown nodules near top. Upper and middle parts of formation exposed in Huntsville quadrangle; lower part exposed in North Ogden quadrangle; thickness 290 m.

CA ST. CHARLES LIMESTONE - See above.

DC Dolomite member - See above.

WC Worm Creek Quartzite Member - See above.

NO NOVINAN DOLOMITE - See above.

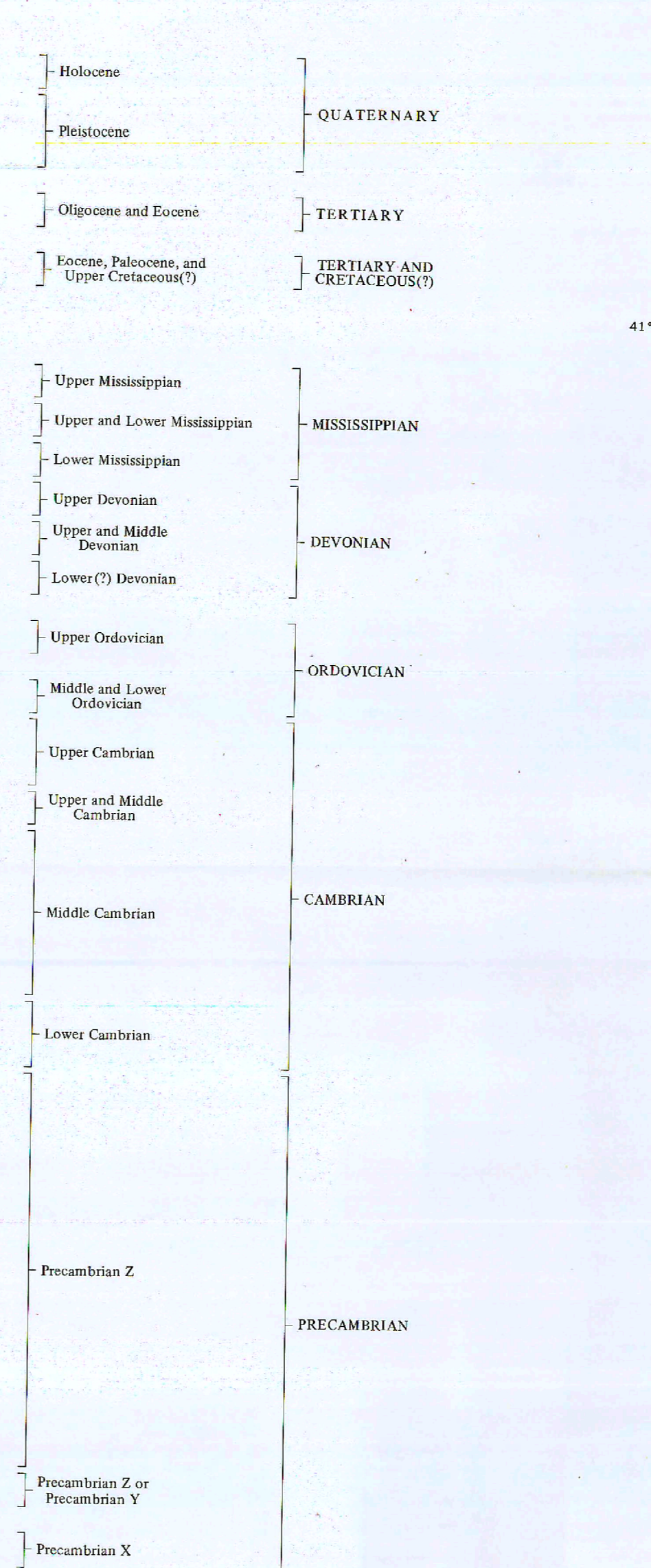
CF CALLS FORT SHALE MEMBER OF BLOOMINGTON FORMATION - See above.

CM CAMBRIAN LIMESTONES, UNDIVIDED (Middle Cambrian) - Includes limestone and shales of the Bloomington Formation, and Blacksmith and Ute Limestones.

BL BLACKSMITH LIMESTONE (Middle Cambrian) - Medium- to thin-bedded, light gray to dark blue-gray limestone; thin-bedded, flaggy weathering, gray to tan silt limestone and interbedded siltstone; light- to dark-gray dolomite, with some reddish siliceous partings; thickness 400 m.

UT UTE LIMESTONE (Middle Cambrian) - Medium- to thin-bedded, finely crystalline, light- to dark-gray shaly limestone with irregular wavy partings, mottled and streaked surfaces, worn tracks, and many beds; olive-drab fine shaly shale interbedded throughout unit. Includes thin-bedded, gray weathering, pale-tan to brown dolomite exposed at base of unit, 18-26 m at base of Geertzen Canyon and 0-2 m elsewhere; thickness 245 m.

BR BRIGHAM GROUP (Crittenden and others, 1971) - Includes: **UP** Upper member - Pale buff to white or pinkish quartzite, locally streaked with fine red or purple. Coarse-grained; small pebbles occur throughout unit and increase in abundance downward. Base marked by zone 30-60 m thick of cobble conglomerate in beds 30 cm to



EXPLANATION

Postglacial rocks and sediments

Rocks deposited in Cordilleran orogen

Rocks deposited on volcanic shelf

Recently active normal fault - Dashed white line

Pre-Tertiary normal fault - Dotted white line

Thrust fault - Dashed white line

Approximate location of Lake Bonneville shoreline

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GEOLOGIC MAP OF THE HUNTSVILLE QUADRANGLE, WEBER AND CACHE COUNTIES, UTAH
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