



Maped, edited, and published by the Geological Survey  
Control by USGS and USC&GS  
Topography from aerial photographs by multiplex methods,  
and by plane-table surveys 1948  
Aerial photographs taken 1946  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on Utah coordinate system,  
central zone  
Unchecked elevations are shown in brown  
Red tint indicates area in which only  
landmark buildings are shown

TRUE NORTH  
MAGNETIC NORTH  
APPROXIMATE MEAN  
DECLINATION, 1948

SCALE 1:24000  
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET  
1 5 0 1 KILOMETER  
CONTOUR INTERVAL 40 FEET  
DOTTED LINES REPRESENT 10 FOOT CONTOURS  
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO OR WASHINGTON 25, D. C.

GEOLOGIC MAP OF THE OREM QUADRANGLE, UTAH  
A. A. Baker  
1961

ROAD CLASSIFICATION  
HARD SURFACE ALL WEATHER ROADS DRY WEATHER ROADS  
Heavy-duty ———— Improved dirt ————  
Medium-duty ———— Unimproved dirt ————  
Loose-surface, graded, or narrow hard-surface ————  
U. S. Route State Route

OREM, UTAH  
N4015-W11137.5/7.5  
EDITION OF 1960

Maped mainly in 1947, 1948, and 1949 with the  
assistance at different times of W.W. Olive  
R.R. Clawson and O.M. Franson.  
Valley sediments of Lake Bonneville mapped  
by C.B. Hunt and described in Prof. Pap. 257-A

Explanation

Qb Qal Qt  
Qls Qow

Quaternary and Recent deposits  
Qb - Lake Bonneville sediments and later sediments in the basin, Qal - valley fill,  
Qls - landslide, Qow - alluvial cones and outwash, Qt - terrace gravel

FIPo  
IPob

Quirren formation  
Fine to coarse-grained thin to thick-bedded tan to gray sandstone  
with interbedded gray to black cherty limestone. Bridal Veil  
limestone member at base

MPmc

Manning Canyon shale  
Black to brown shale with some interbedded gray to black limestone  
and fine to coarse grained and conglomeratic sandstone

Mgb

Great Blue limestone  
Dark gray to black thin-bedded limestone with some black shale  
and occasional thin beds of quartzitic sandstone

Mh

Humbel formation  
Medium to fine grained gray to buff limy or quartzitic tan weathering  
sandstone interbedded with light to dark gray cherty limestone and dolomite

Ma

Leseret limestone  
Thick-bedded dark to light gray cherty dolomite

Mg

Gardison limestone  
Massive to thin bedded gray to black cherty limestone and dolomite

Mf

Fitchville formation  
Medium to light gray thick bedded vuggy dolomite

Em

Maxfield limestone  
Dark to light-gray thin to thick bedded limestone generally with gray to  
brown mottling

Co

Oquir formation  
Olive-green shale with some interbedded sandstone and some thin beds of  
shaly limestone

Et

Tintic quartzite  
Medium to fine-grained tan weathering white quartzite with conglomeratic  
zone at base

pEmf

Mineral Fork tillite  
Dark gray to brown, black-weathering conglomerate with scattered boulders  
up to four feet in diameter

Contact  
Dashed where approximately located and dotted where inferred

Fault showing down thrown side and dip  
Dashed where approximately located and dotted where inferred

Thrust fault  
T on side of upper plate

Strike and dip of beds

QUATERNARY  
PENNSYLVANIAN AND  
PERMIAN

MISSISSIPPIAN  
CARBONIFEROUS SYSTEMS

CAMBRIAN

PRECAMBRIAN

M(200)  
R290  
no. 61-8  
C. J.

Orem Quadrangle Utah  
A.A. Baker 1961

Utah (Orem quad.) Geol. 1:24,000. 1961.  
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