# Geologic Map of the McKay Reservoir Quadrangle, Umatilla County, Oregon

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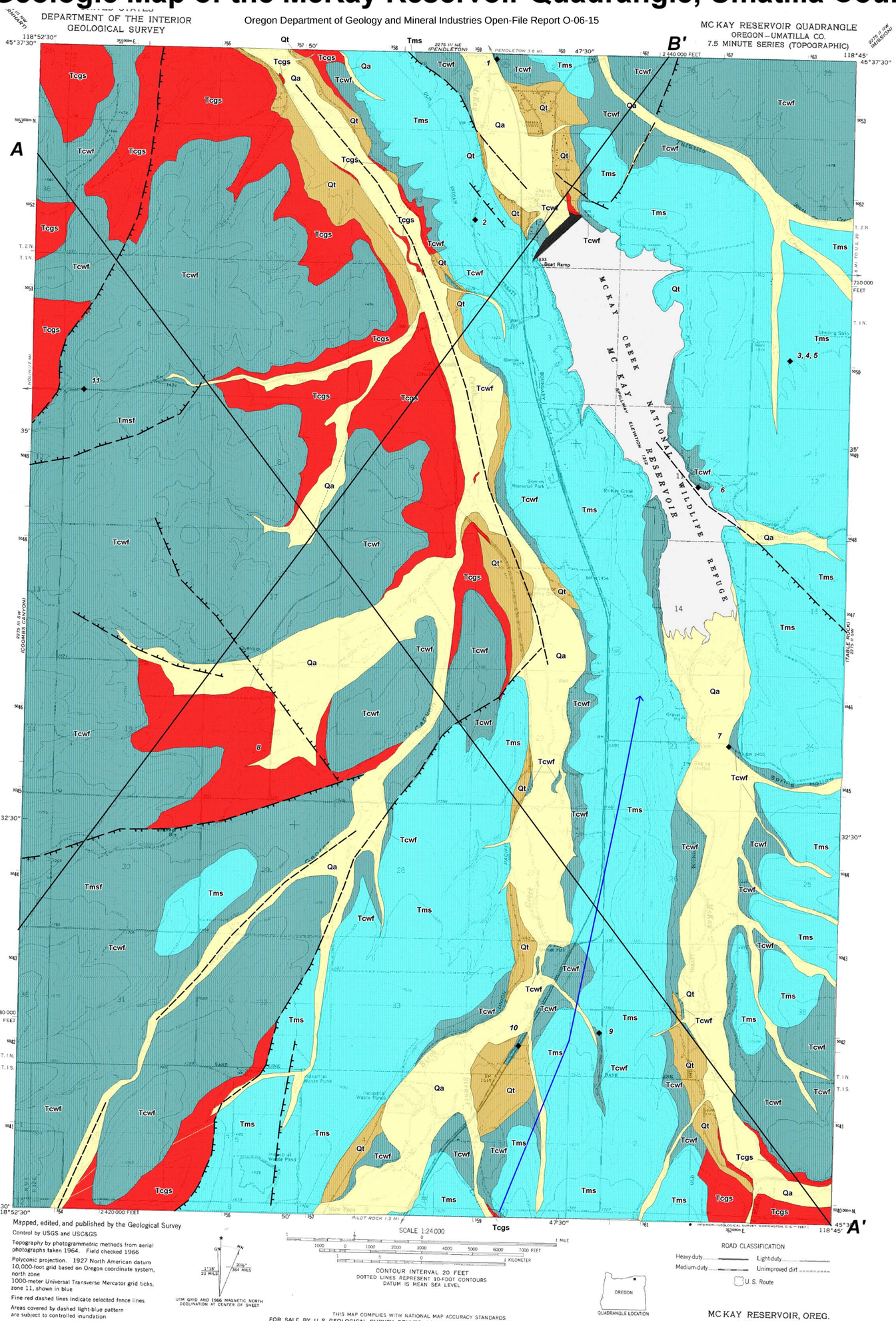
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MC KAY RESERVOIR QUADRANGLE
OREGON—UMATILLA CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)




Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1964. Field checked 1966

Polyconic projection. 1927 North American datum
10,000-foot grid based on Oregon coordinate system, north zone
1000-meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

Fine red dashed lines indicate selected fence lines

Areas covered by dashed light-blue pattern are subject to controlled inundation

SCALE 1:24 000

CONTOUR INTERVAL 20 FEET
DOTTED LINES REPRESENT 10-FOOT CONTOURS
DATUM IS MEAN SEA LEVEL

UTM GRID AND 1966 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

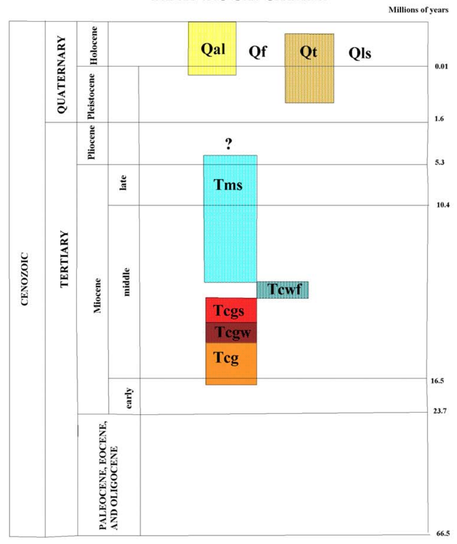
ROAD CLASSIFICATION
Heavy duty
Medium-duty
Light-duty
Unimproved dirt
U.S. Route

OREGON
QUADRANGLE LOCATION

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

MC KAY RESERVOIR, OREG.
N4530—W11845/7.5
1966

## TIME ROCK CHART




After Berggren and others, 1985 and Kent and Gradstein, 1985

## EXPLANATION

### Surficial Units

Qal — Alluvium (Holocene and upper Pleistocene)

Qt — Terrace gravels (Holocene ? and Pleistocene)

### Sedimentary Rocks

Tms — McKay Formation (lower Pliocene? to middle Miocene)

### Columbia River Basalt Group

**Wanapum Basalt**

Tcwf — Frenchman Springs member (middle Miocene)

**Grande Ronde Basalt**

Tcgn2 — N2 Magnetostratigraphic unit (middle Miocene)
Includes separately mapped units:

Tcgs — Sentinel Bluffs member

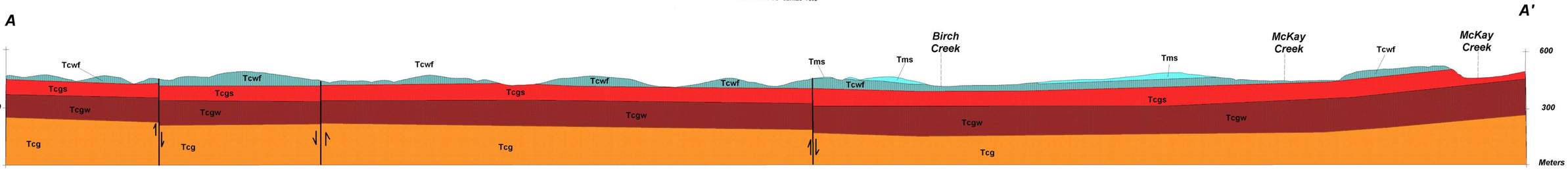
Tcgw — Winter Water member
(shown only in Cross Section)

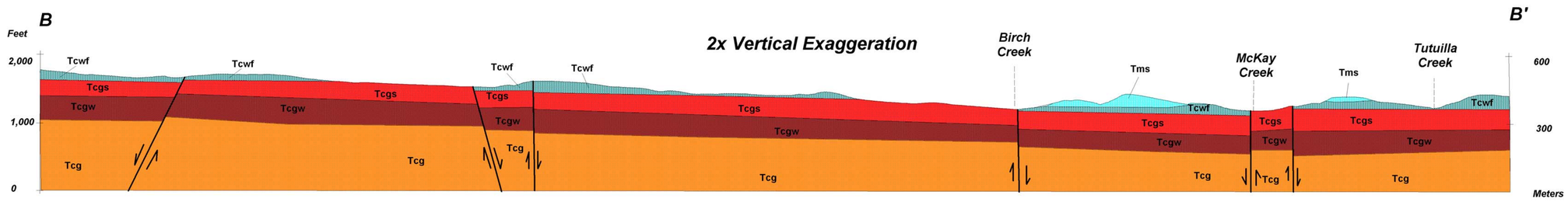
Tcg — Undifferentiated Grande Ronde Basalt - (middle and early Miocene)
(shown only in Cross Section)

Fault, approximately located. Dashed where concealed
Hachures on downdropped side

7 ◆ Location from where analyzed rock chip sample was collected

AMS 2275 III SE—SERIES V892




2x Vertical Exaggeration