



STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
VICKI S. McCONNELL, STATE GEOLOGIST

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Preliminary Geologic Map of the Robinson Butte 7.5' Quadrangle, Jackson County, Oregon

2009

ROBINSON BUTTE QUADRANGLE
OREGON—JACKSON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

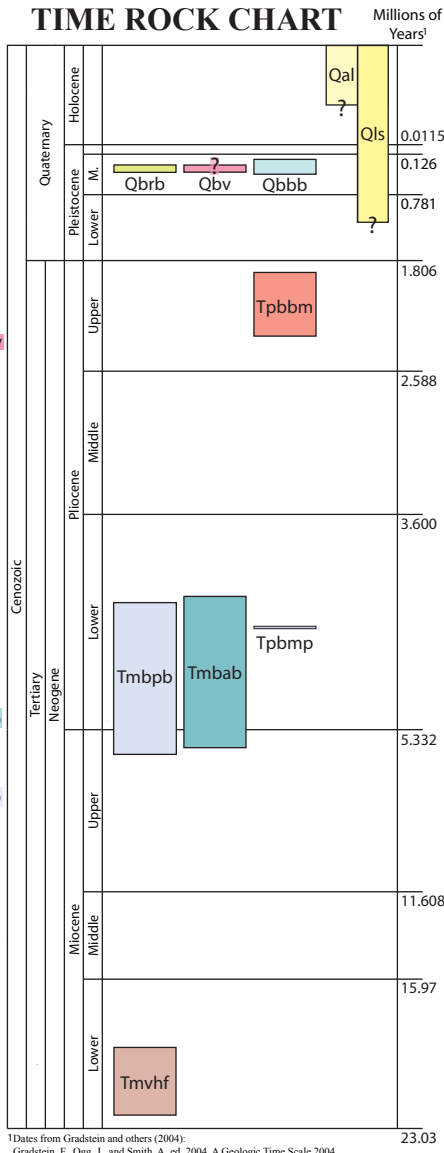
OPEN-FILE REPORT O-09-02

Preliminary Geologic Map of the Robinson Butte 7.5' Quadrangle,
Jackson County, Oregon

By S. A. Mertzman, S.G. Weaver,
S.A. Pasquale, J.M. Baum, and L.P. Weaver

The views and conclusions contained in this document are those of the authors
and should not be interpreted as necessarily representing the official policies, either
expressed or implied, of the U.S. government.

TIME ROCK CHART



MAP UNITS

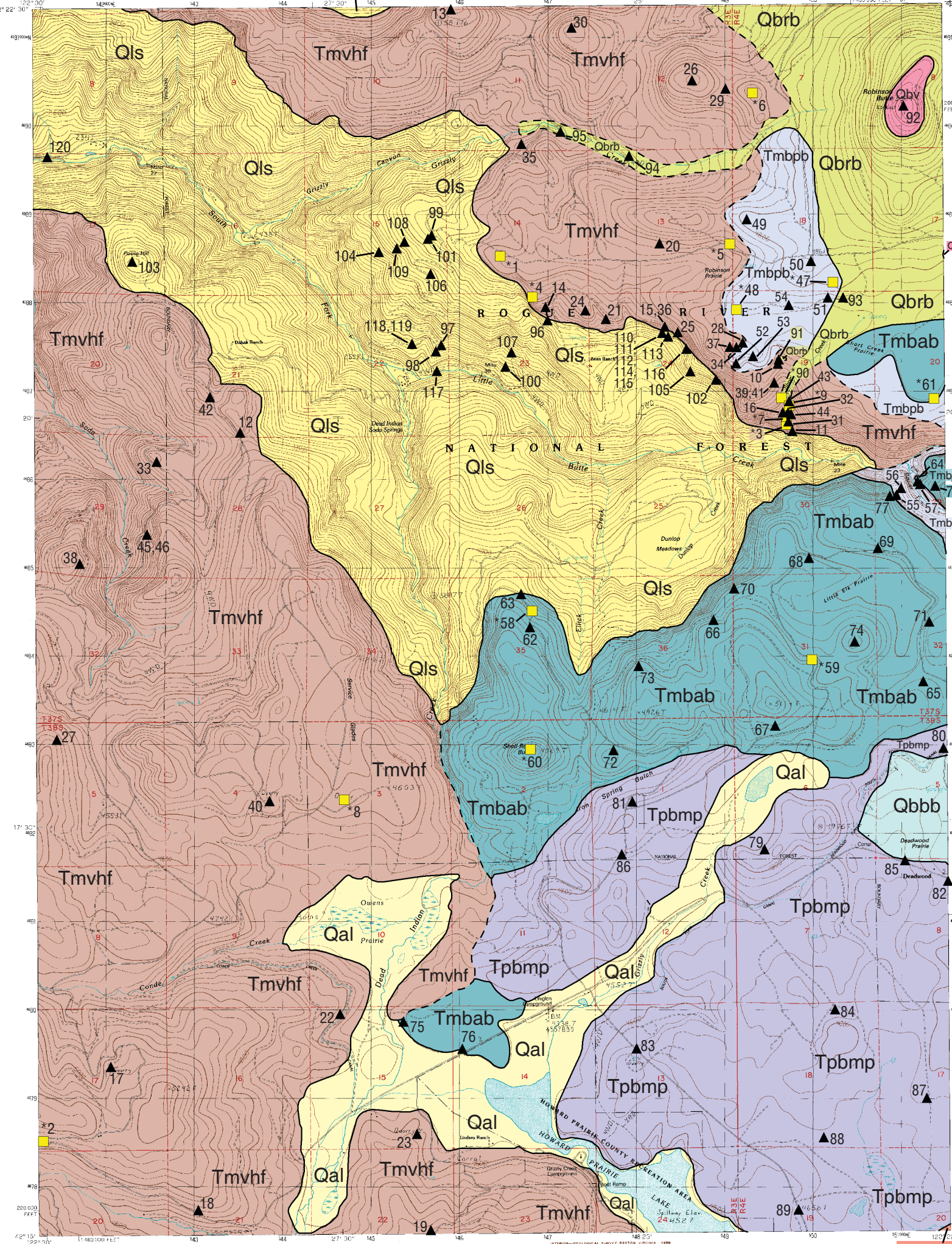
(A full description of the geologic units
is found in the accompanying text.)

Surficial Units

- Qal Alluvium (Holocene)
- Qls Landslide deposits (Pleistocene to Holocene)

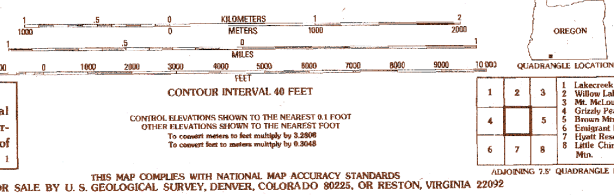
Volcanic Units

- Qbv Basaltic to basaltic andesite vent deposits (Mid. Pleistocene)
- Qbbb Basalt of Burton Butte (Middle Pleistocene)
- Qbrb Basalt of Robinson Butte (Middle Pleistocene)
- Tpbbm Basalt of Brush Mountain (Upper Pliocene)
- Tpbmp Basalt of Moon Prairie (Lower Pliocene)
- Tmbab Bas. And. of Beaver Dam Creek (Up. Miocene to Lo. Pliocene)
- Tmbpb Basalt of Pole Bridge Creek (Up. Miocene to Lo. Pliocene)
- Tmvhf Heppsie Formation (Lower Miocene)



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONTROL BY: USGS, NORWICH, CT
FIELD CHECKED: 1986, MAP EDITED: 1988
PROJECTION: LAMBERT CONFORMAL CONIC
GRID: 1000-METER UNIVERSAL TRANSVERSE MERCATOR
UTM GRID DECLINATION: 1983 EAST
UTM MAGNETIC NORTH DECLINATION: 1983 EAST
VERTICAL DATUM: NATIONAL GEODETIC VERTICAL DATUM OF 1988
HORIZONTAL DATUM: 1983 NORTH AMERICAN DATUM
To place on the predicted North American Datum of 1983,
move the projection lines as shown by dashed corner ticks
(19 meters north / 94 meters east)
There may be private inholdings within the boundaries of any
Federal and State Reservations shown on this map.
No distinction made between houses, barns, and other buildings

PROVISIONAL MAP
Produced from original
manuscript drawings. Infor-
mation shown as of date of
photography.



ROAD LEGEND
Improved Road
Unimproved Road
Trail
Interstate Route
U.S. Route
State Route
ROBINSON BUTTE, OREG.
PROVISIONAL EDITION 1988
42122-C4-TF-024

SCALE: 1:52,000

GEOLOGIC MAP SYMBOLS

- Contact -- Approximately located; dashed where inferred.
- *# Sample location and map number for specimens with available age dates and chemical analyses -- Consult Table 1 in the attached text.
- # Sample location and map number for specimens with available chemical analyses -- Consult Table 1 in the attached text.

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Field Work: 1984, 1991, 1992, 1995, 1999, 2000, 2002, 2003,
2006, 2007

NOTES REGARDING THE MAP:

The above map was created in and exported from MapInfo Professional® version 7.0 in the following projection: Universal Transverse Mercator (NAD 27 for US): UTM Zone 10 (NAD 27 for US). The U.S. Geological Survey 7.5 minute Robinson Butte quadrangle, the colored geologic units, the geologic unit boundaries, and the sample location symbols were exported from MapInfo and have since been kept in the same orientation. The exported map image has been uniformly resized using Adobe® Illustrator® CS3 to create a 1:52,000 scale. The colors of the exported map were adjusted using Adobe® Photoshop® CS3 to be consistent with USGS CMYK color standards. The map numbers and geologic unit labels were added to the map in Adobe® Illustrator® CS3. A final .pdf version of the map was created using Adobe® Illustrator® CS3.