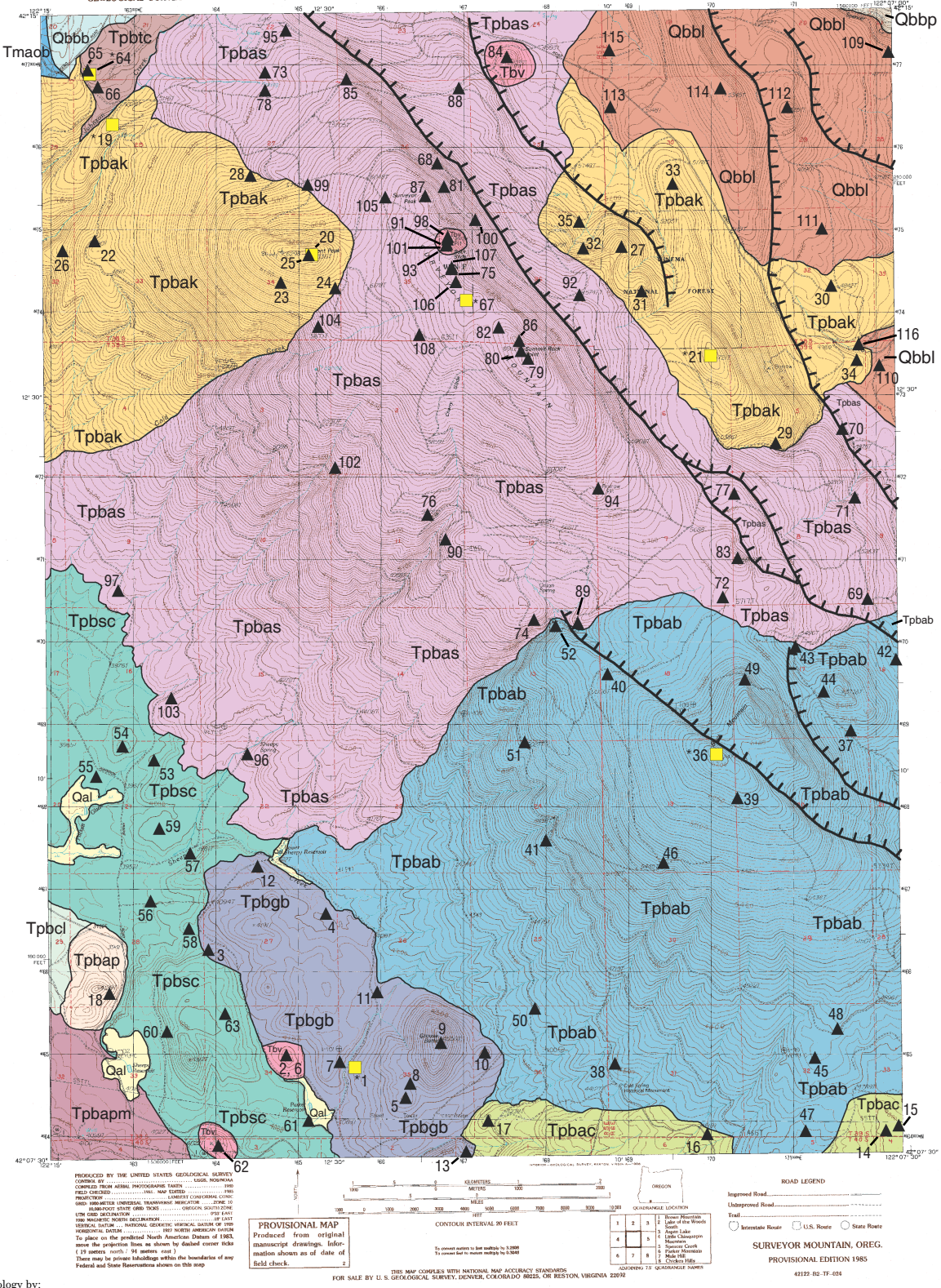
Preliminary Geologic Map of the Surveyor Mountain 7.5′ Quadrangle, Klamath County, Oregon

2008

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SURVEYOR MOUNTAIN QUADRANGLE
OREGON—KLAMATH CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



Geology by:
Stanley A. Mertzman (Franklin and Marshall College)
Matthew Reuer (formerly at Carleton College)
Benjamin Schiffer (formerly at Whitman College)

Field Work: 1991, 1994, 1995, 1997, 1998, 1999, 2003, 2004, 2006

SCALE: 1:75,000

GEOLOGIC MAP SYMBOLS

- Contact -- Approximately located
- Fault -- Solid where approximately located; dashed where concealed; bars are on the side of the down-dropped block.
- *# Sample location and map number for specimens with available age dates and chemical analyses -- Consult Table 1 in the attached text.
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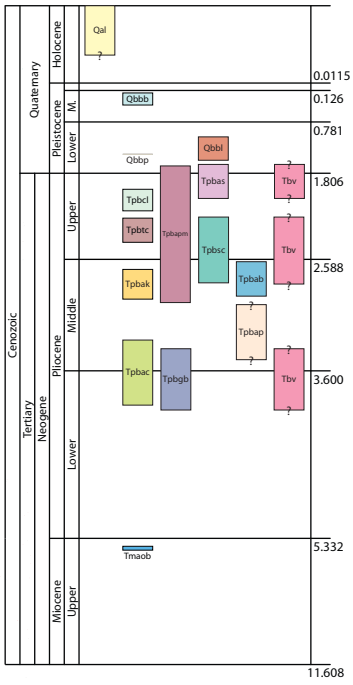
TIME ROCK CHART



MAP UNITS

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

Surficial Units

- Qal — Alluvium (Holocene)

Volcanic Units

- Tbv — Basaltic to basaltic andesite vent deposits (Pliocene)
- Qbbb — Basalt of Burton Butte (Middle Pleistocene)
- Qbbp — Basalt of Buck Peak (Lower Pleistocene)
- Qbbl — Basalt of Buck Lake (Lower Pleistocene)
- Tpbas — Bas. And. of Surveyor Mtn. (Up. Plio. to Lo. Pleistocene)
- Tpbcl — Basalt of County Line (Upper Pliocene)
- Tpbtc — Basalt of Tunnel Creek (Upper Pliocene)
- Tpbapm — Bas. And. of Parker Mountain (Mid. Plio. to Low. Pleist.)
- Tpbsc — Basalt of Sheepy Creek (Middle to Upper Pliocene)
- Tpbab — Bas. And. of Buck Mtn. (Middle Pliocene)
- Tpbak — Bas. And. of Kent Peak (Middle Pliocene)
- Tpbap — Bas. And. of Puckett Glade (Middle Pliocene?)
- Tpbac — Bas. And. of Camp Creek (Lower to Middle Pliocene)
- Tpbgb — Bas. of Grouse Butte (Lower to Middle Pliocene)
- Tmaob — And. of Old Baldy East (Upper Miocene)

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 Surveyor Mountain quadrangle, the colored geologic units, the geologic unit boundaries, the faults, 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 1:75,000 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.