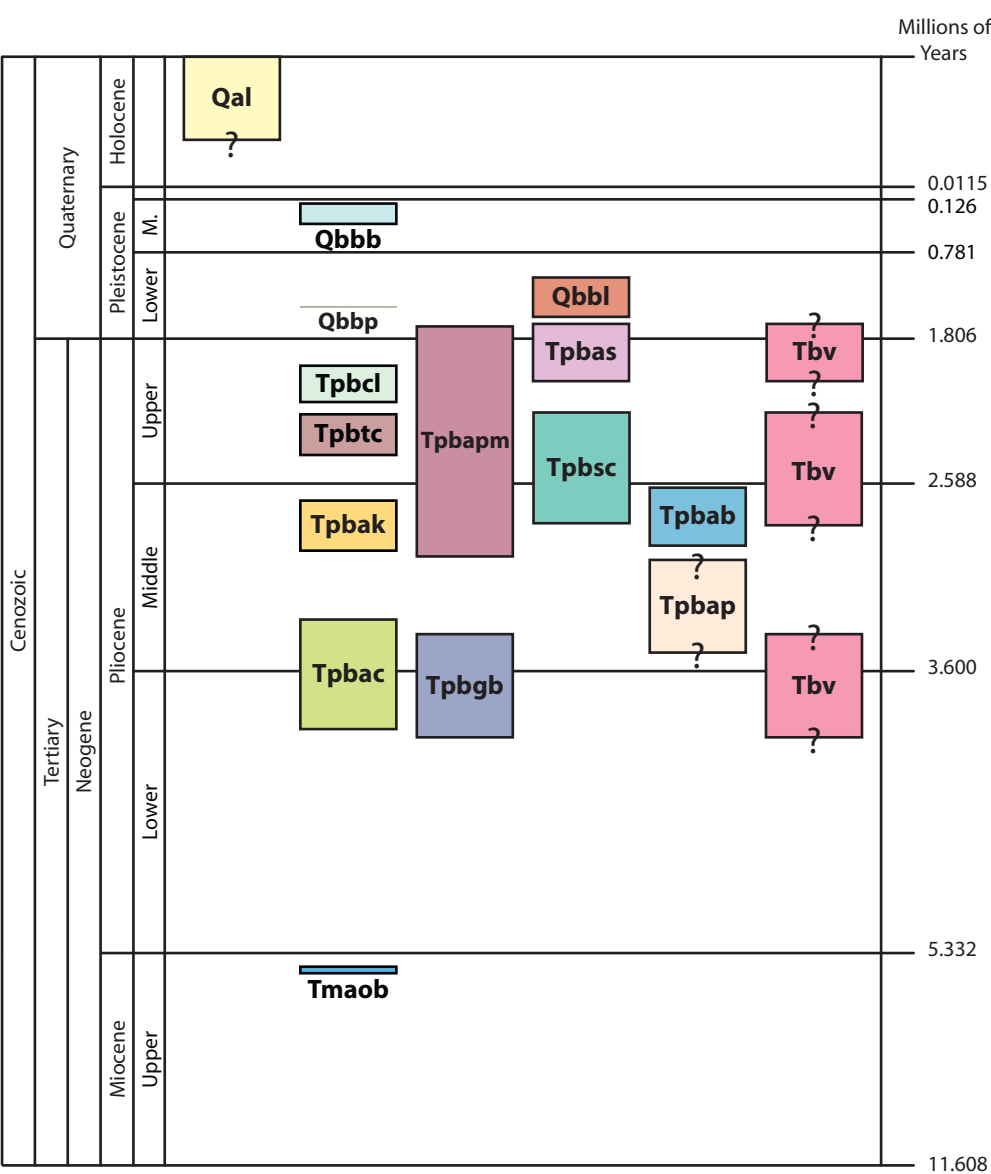


## 2008

## Preliminary Geologic Map of the Surveyor Mountain 7.5' Quadrangle.

By S. A. Mertzman, M. Reuer, and B. Schiffe

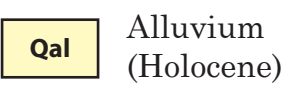
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## MAP UNITS

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



### Surficial Units



### Volcanic Units

- |               |  |
|---------------|--|
| <b>Tbv</b>    | Basaltic to basaltic andesite vent deposits (Pliocene)                       |
| <b>Qbbb</b>   | Basalt of Burton Butte (Middle Pleistocene)                                  |
| <b>Qbbp</b>   | Basalt of Buck Peak (Lower Pleistocene)                                      |
| <b>Qbbi</b>   | Basalt of Buck Lake (Lower Pleistocene)                                      |
| <b>Tpbas</b>  | Basaltic Andesite of Surveyor Mountain (Upper Pliocene to Lower Pleistocene) |
| <b>Tpbcl</b>  | Basalt of County Line (Upper Pliocene)                                       |
| <b>Tpbtcr</b> | Basalt of Tunnel Creek (Upper Pliocene)                                      |
| <b>Tpbapm</b> | Basaltic Andesite of Parker Mountain (Middle Pliocene to Lower Pleistocene)  |
| <b>Tpbsc</b>  | Basalt of Sheepy Creek (Middle to Upper Pliocene)                            |
| <b>Tpbab</b>  | Basaltic Andesite of Buck Mountain (Middle Pliocene)                         |
| <b>Tpbak</b>  | Basaltic Andesite of Kent Peak (Middle Pliocene)                             |
| <b>Tpbap</b>  | Basaltic Andesite of Puckett Glade (Middle Pliocene?)                        |
| <b>Tpbac</b>  | Basaltic Andesite of Camp Creek (Lower to Middle Pliocene)                   |
| <b>Tpbgb</b>  | Basalt of Grouse Butte (Lower to Middle Pliocene)                            |
| <b>Tmaob</b>  | Andesite of Old Baldy East (Upper Miocene)                                   |

## GEOLOGIC MAP SYMBOLS

-  Contact -- Approximately located  
 Fault -- Solid where approximately located; dashed where concealed  
 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: 1991, 1994, 1995, 1997, 1998, 1999, 2003, 2004, 2006

### 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 zones 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 1:24,000 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.