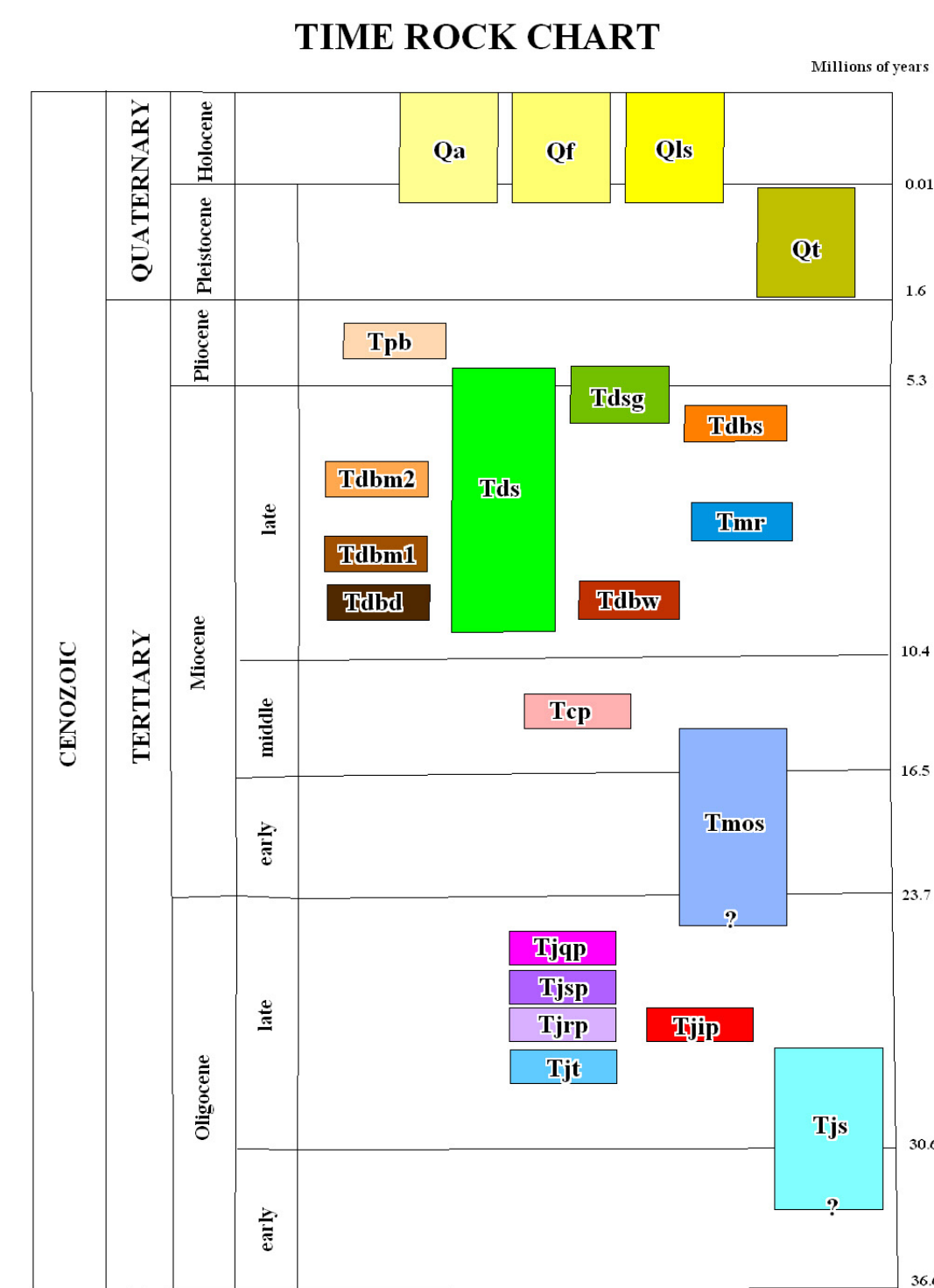
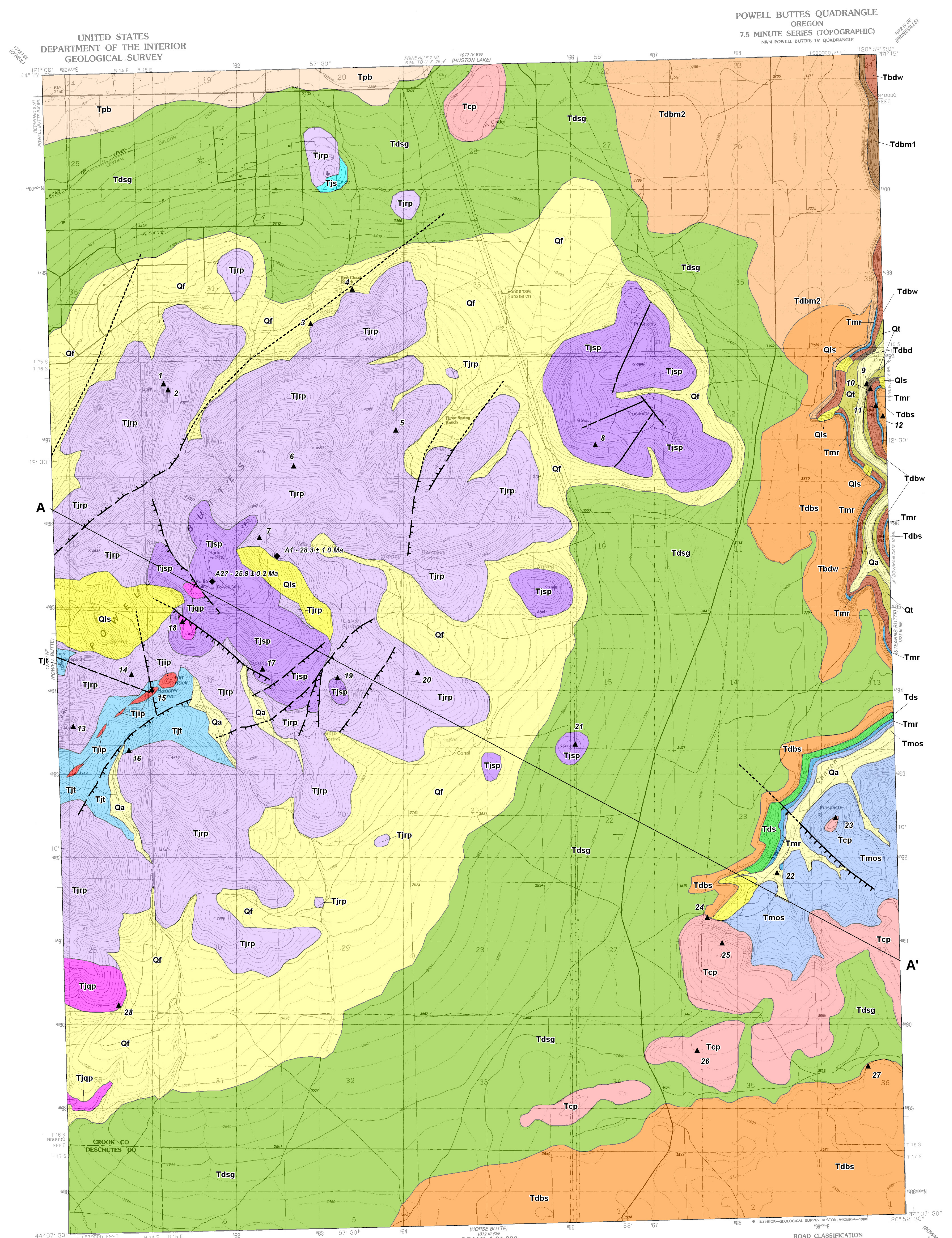


By M.L. Ferns and J.D. McClaughry

2006



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

EXPLANATION OF MAP UNITS

(full description of units in accompanying text)

- | | |
|--|--|
| Surficial Deposits | |
| Qa | Stream alluvium (Holocene and Pleistocene) |
| Qt | Alluvial fan deposits (Holocene and Pleistocene) |
| Qc | Landslide deposits (Holocene and Pleistocene) |
| Qs | Terrace deposits (Pleistocene) |
| Tertiary volcanics and sedimentary rocks | |
| Tp | Basalt of Day River (Pliocene) |
| Deschutes Formation (Pliocene and late Miocene). Td - subdivided into: | |
| Td₁ | Sand and gravel (Pliocene or late Miocene?) |
| Td₂ | Basalt of Smarts Canyon (late Miocene) |
| Td₃ | Basalt of Meyers Butte, upper flow (late Miocene) |
| Td₄ | Basalt of Meyers Butte, lower flow (late Miocene) |
| Td₅ | Basalt of White Deer Ranch (late Miocene) |
| Td₆ | Basalt of Day Creek (late Miocene) |
| Td₇ | Sedimentary rocks (late Miocene) |
| Tm | Rattlesnake ash tuff (late Miocene) |
| Tp | Prineville Basalt (middle Miocene) |
| Tms | Tuffaceous sedimentary rocks (middle Miocene to late Oligocene?) |
| John Day Formation (early Miocene? and Oligocene). Tj - subdivided into: | |
| Fossil Buttes Regional Complex | |
| Tj₁ | Quartz-phryic rhyolite (late Oligocene) |
| Tj₂ | Sandine-phryic rhyolite (late Oligocene) |
| Tj₃ | Aphyric rhyolite (late Oligocene) |
| Tj₄ | Aphyric rhyolite dikes (late Oligocene) |
| Tj₅ | Sedimentary rocks (late Oligocene) |
| Tj₆ | Pumice-Blastic tuff (late Oligocene) |

EXPLANATION OF MAP SYMBOLS

- | | |
|--|--|
| | Geologic contact - approximately located |
| | Fault, approximately located; dashed where inferred, dotted where concealed. Hashes on downthrown side |
| | Fault, approximately located; dashed where inferred. Sense of displacement unknown |
| | 4
Simple locality - see Table 1.1 in accompanying text |
| | A1 - 28.3 ± 0.1 Ma
Radiometric age-date sample locality - see Table 1.2 in accompanying text |

