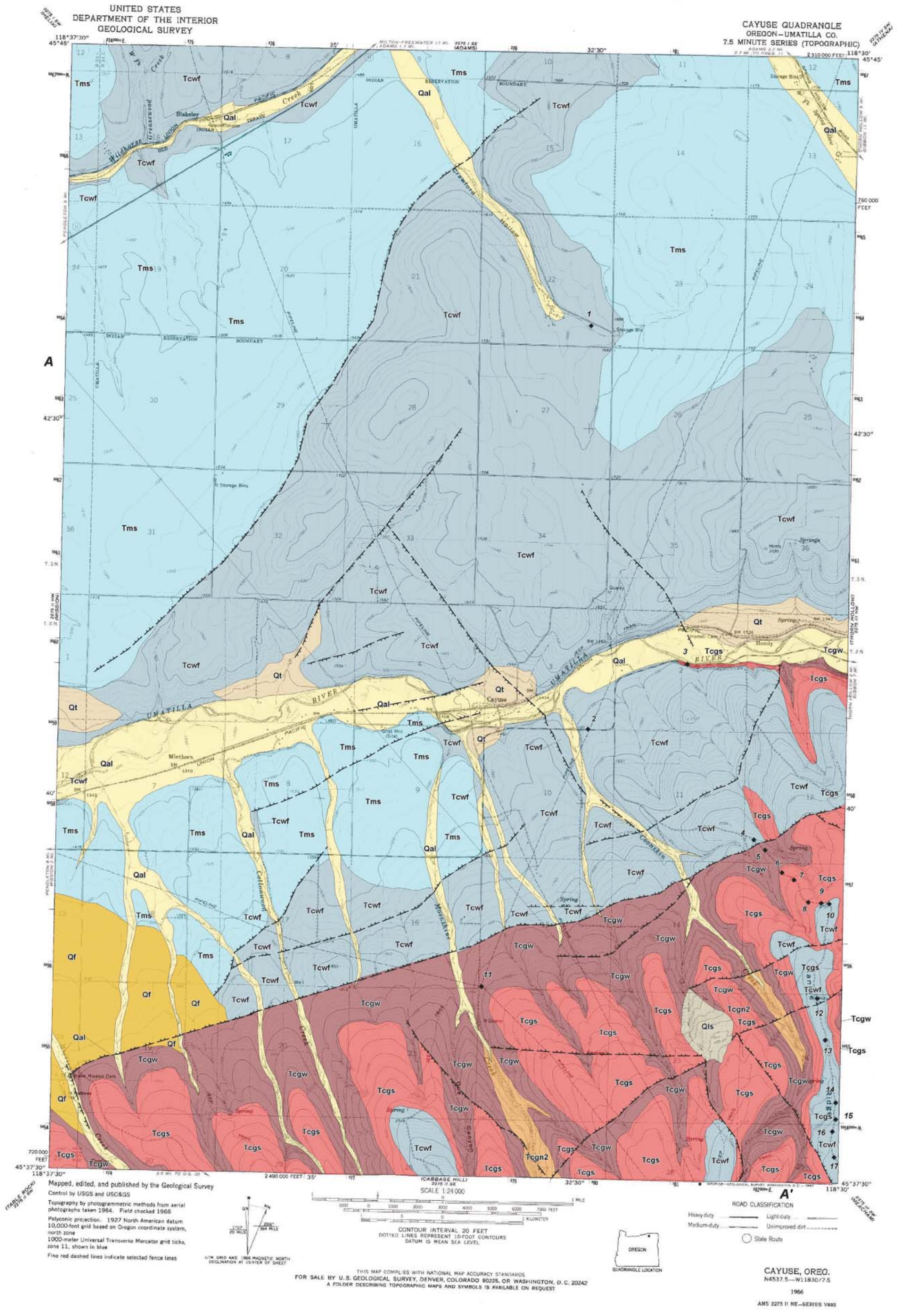
Oregon Department of Geology and Mineral Industries Open-File Report O-06-08

GEOLOGIC MAP OF THE CAYUSE QUADRANGLE, UMATILLA COUNTY, OREGON

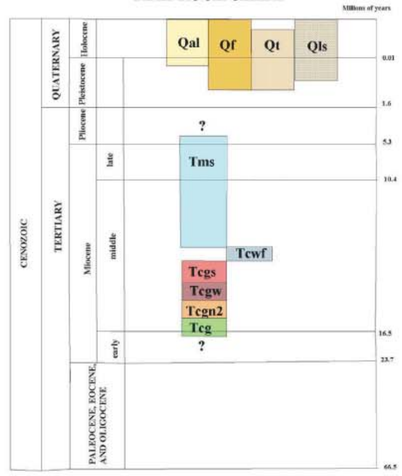
BY M.L. FERNS

2004

SCALE = 1:24,000



TIME ROCK CHART



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

EXPLANATION

Surficial Units

- Qal — Alluvium (Holocene and upper Pleistocene)
- Qls — Landslide deposits (Holocene? and Pleistocene)
- Qf — Alluvial fan gravels (Holocene and Pleistocene?)
- Qt — Terrace gravels (Holocene ? and Pleistocene)

Sedimentary Rocks

- Tms — Siltstone, sandstone, and conglomerate (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
- Tcg — Undifferentiated Grande Ronde Basalt - (middle and early Miocene) (shown in Cross Section only)

Fault, dashed where concealed
Hachures on downdropped side

7 ◆ Location from where analyzed rock chip sample was collected

SUPPORTED BY THE U.S. GEOLOGICAL SURVEY UNDER ASSISTANCE AWARD # 03HQAG0070