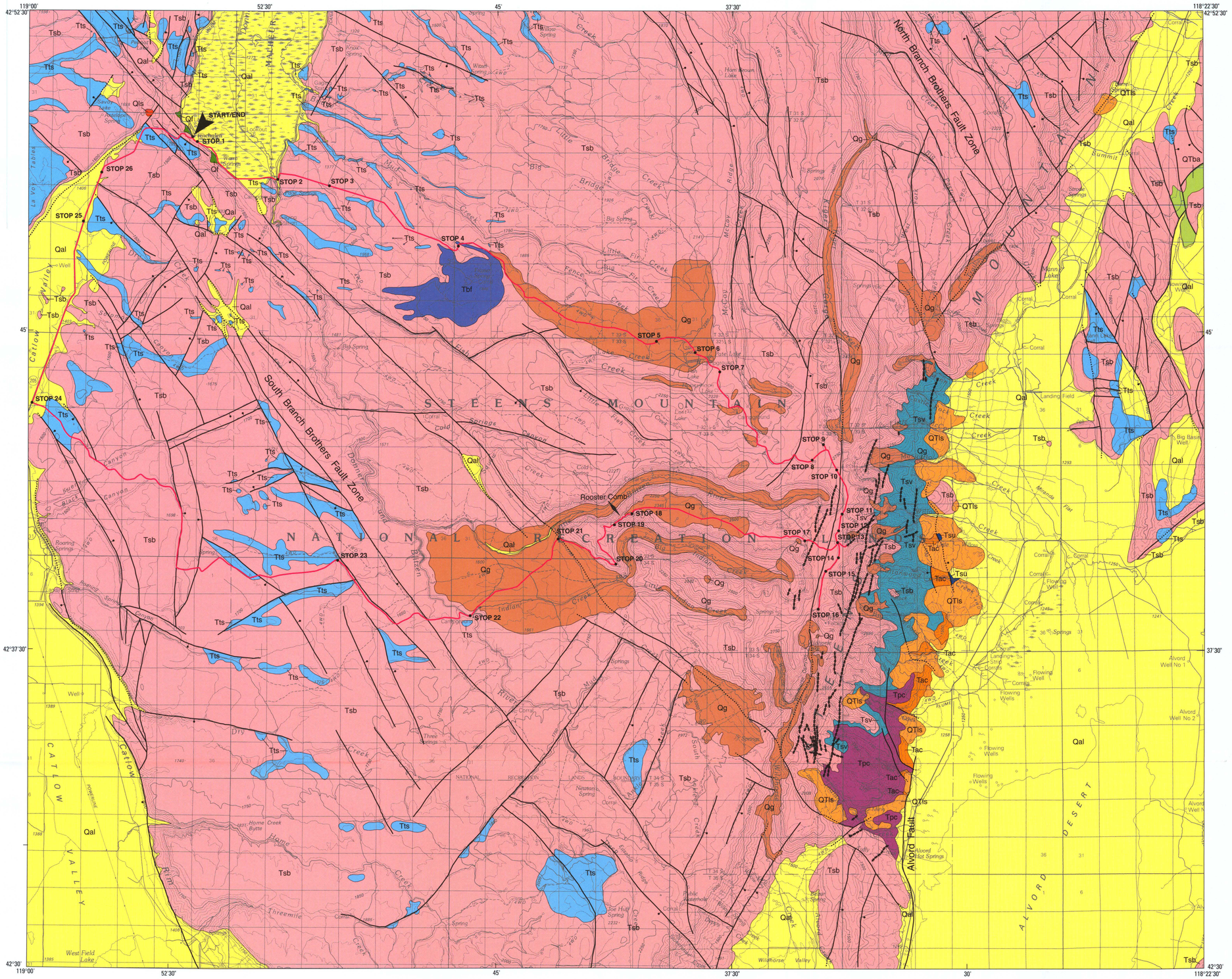
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Published in cooperation with the
BUREAU OF LAND MANAGEMENT

BULLETIN 2183
PLATE 1



EXPLANATION OF MAP UNITS

- **Qal** — **Alluvium (Holocene)**—Includes fluvial, flood plain, swamp, and playa deposits.
- **Qg** — **Glacial deposits (pleistocene)**
- **Qf** — **Alluvial Fan (Quaternary)**
- **Qls** — **Landslide deposits (Quaternary)**
- **QTls** — **Landslide deposits (Pliocene, Pleistocene, or Holocene)**—Includes alluvial fan deposits
- **QTba** — **Basaltic andesite flows (Pliocene or Pleistocene)**
- **Tbf** — **Younger basalt flow (late Miocene or Pliocene)**
- **Tts** — **Welded tuff, tuff, and tuffaceous sedimentary rock (late Miocene)** —Includes Devine Canyon Tuff, Rattlesnake Tuff, and associated tuffaceous sedimentary rocks
- **Tsb** — **Steens Basalt (early to middle Miocene)**—Includes younger andesite flows
- **Tsv** — **Steens Mountain Volcanics (early Miocene)**
- **Tsu** — **Steens Basalt and Steens Mountain Volcanics, undivided**
- **Tpc** — **Pike Creek Formation (early Miocene)**—Intercalated rhyolitic to dacite flows and extrusive domes and minor associated tuff and tuffaceous sedimentary rocks
- **Tac** — **Alvord Creek Formation (early Miocene)**—Tuff and tuffaceous to volcaniclastic sedimentary rocks and possibly correlative rhyolitic ash-flow tuff and tuff breccia
- **Contact**
- **Fault**—Ball and bar on downthrown side. Dotted where concealed
- **Basalt dikes (middle Miocene)**—Dikes intrude Steens Basalt
- **Steens Mountain Loop Road**
- **STOP 1** — **Location of field trip stops**

SCALE 1:100 000

1 0 1 2 3 4 5 6 7 8 MILES

1 0 1 2 3 4 5 6 7 8 9 10 KILOMETERS

CONTOUR INTERVAL 50 METERS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

Base from U.S. Geological Survey, 1982; Steens Mtn.

APPROXIMATE MEAN DECLINATION, 1999

Geology modified from Walker and Repenning (1965), Johnson (1996), Minor and others (1987a,b,c), D.A. Sherrod (unpub. mapping, 1994, Frenchglen 7.5' quad.) and J.G. Evans (unpub. mapping, 1995).

GEOLOGIC MAP OF THE STEENS MOUNTAIN LOOP ROAD AREA, STEENS MOUNTAIN, HARNEY COUNTY, OREGON

By
James G. Evans and Thresa M. Geisler

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