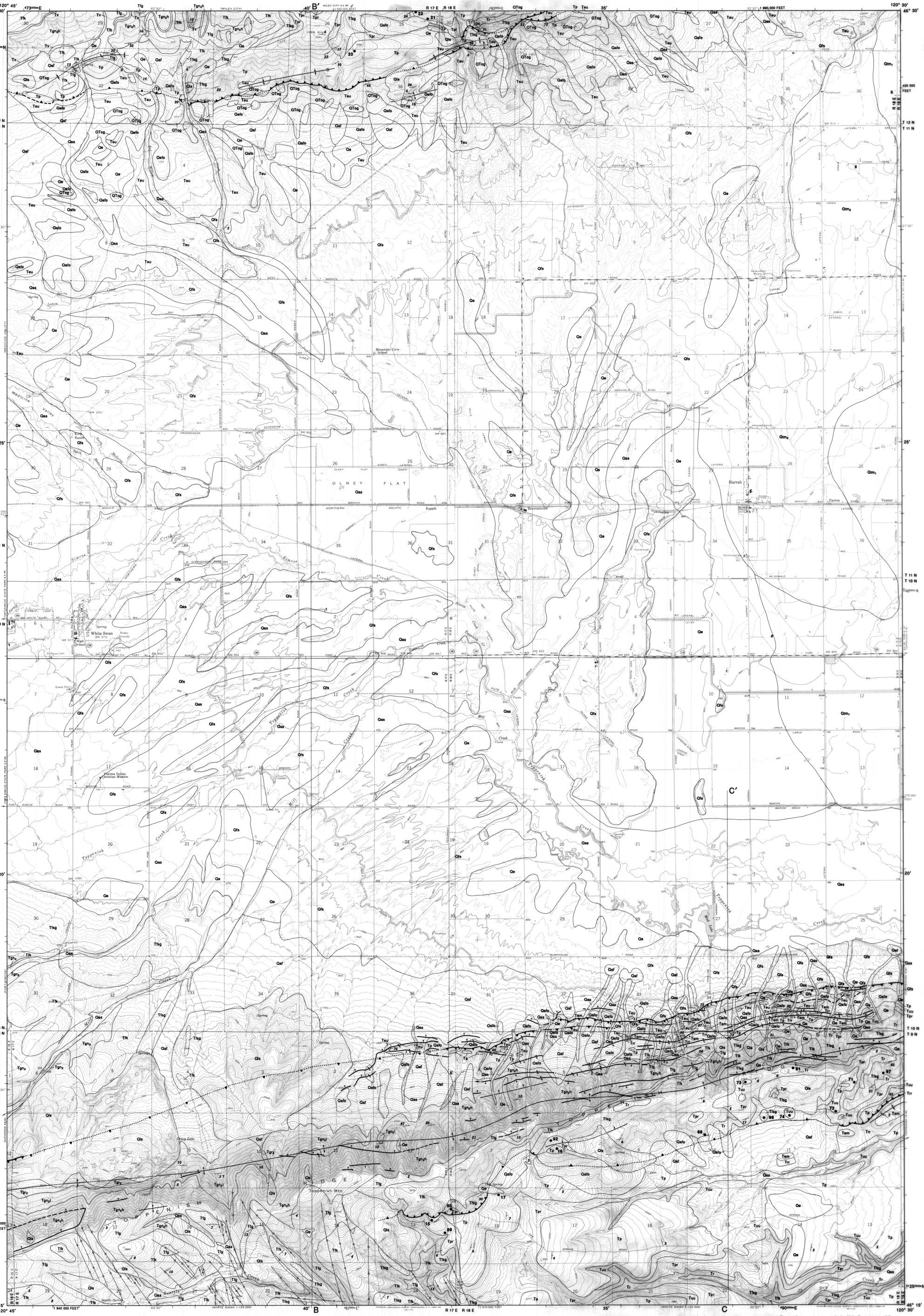
WASHINGTON STATE DEPARTMENT OF
Natural Resources
Jennifer M. Belcher - Commissioner of Public Lands
Kaleen Cottingham - Supervisor

Washington Division of Geology and Earth Resources
Open File Report 93-3
Sheet 2—Harrah 15-minute quadrangle



GEOLOGIC MAPS OF PART OF THE YAKIMA FOLD BELT, NORTHEASTERN YAKIMA COUNTY, WASHINGTON

by
Robert D. Bentley, Newell P. Campbell, and John E. Powell

1993

GEOLOGIC UNITS

Surficial deposits

- **Qas** Alluvium, sidestream facies
- Terrace deposits, mainstream alluvial deposits
  - **Qtm1** Lower terrace deposits
  - **Qtm2** Middle terrace deposits
- **Qaf** Alluvial fan deposits
- **Qls** Landslide deposits
- **Qe** Eolian deposits
- **Qfs** Catastrophic flood slackwater sediments
- **Qafo** Older alluvial fan deposits
- **QTog** Older gravel deposits

Ellensburg Formation

- **Teu** Upper Ellensburg Formation, undivided
  - **Trr** Rattlesnake Ridge Member
  - **Tv** Vantage Member

Columbia River Basalt Group

Saddle Mountains Basalt

- **Tem** Elephant Mountain Member
- **Tp** Pomona Member
- **Tuu** Umatilla Member

Wanapum Basalt

- **Tpr** Priest Rapids Member
- **Tr** Roza Member
- Frenchman Springs Member
  - **Tfsg** Sentinel Gap flows
  - **Tfk** Kelley Hollow flow
  - **Tfg** Ginkgo flows

Grande Ronde Basalt

- **Tgn2** Upper basalt flows of normal magnetic polarity
  - **Tgn2h** High-magnesium chemical type
  - **Tgn2l** Low-magnesium chemical type
- **Tgr2** Upper basalt flows of reversed magnetic polarity

EXPLANATION

Contact—*dashed where approximately located*

Fault—*Dashed where approximately located; dotted where concealed; bar and ball on downthrown side; (solid where Quaternary units are offset)*

Thrust fault—*Dashed where approximately located; dotted where concealed; queried where uncertain; sawteeth on upper plate*

Lineament from aerial photographs

Anticline—*Dotted where concealed*

Syncline—*dotted where concealed*

Monocline—*Dotted where concealed; arrows on side with greater inclination*

Inclined *Horizontal* *Vertical*

Strike and dip of beds

78

Geochemical sample locality

Base map prepared from U.S. Geological Survey 7.5-minute White Swan, Harrah, Toppenish Mtn., and Harrah SE quadrangles, 1958; these quadrangles make up the informally named Harrah 15-minute quadrangle; 1927 North American datum
10,000-foot grid based on Washington coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 10

UTM GRID AND 1958 MAGNETIC NORTH DECLINATION AT CENTER OF TOPPENISH MTN. 7.5′ SHEET

SCALE 1: 31,680

QUADRANGLE LOCATION

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