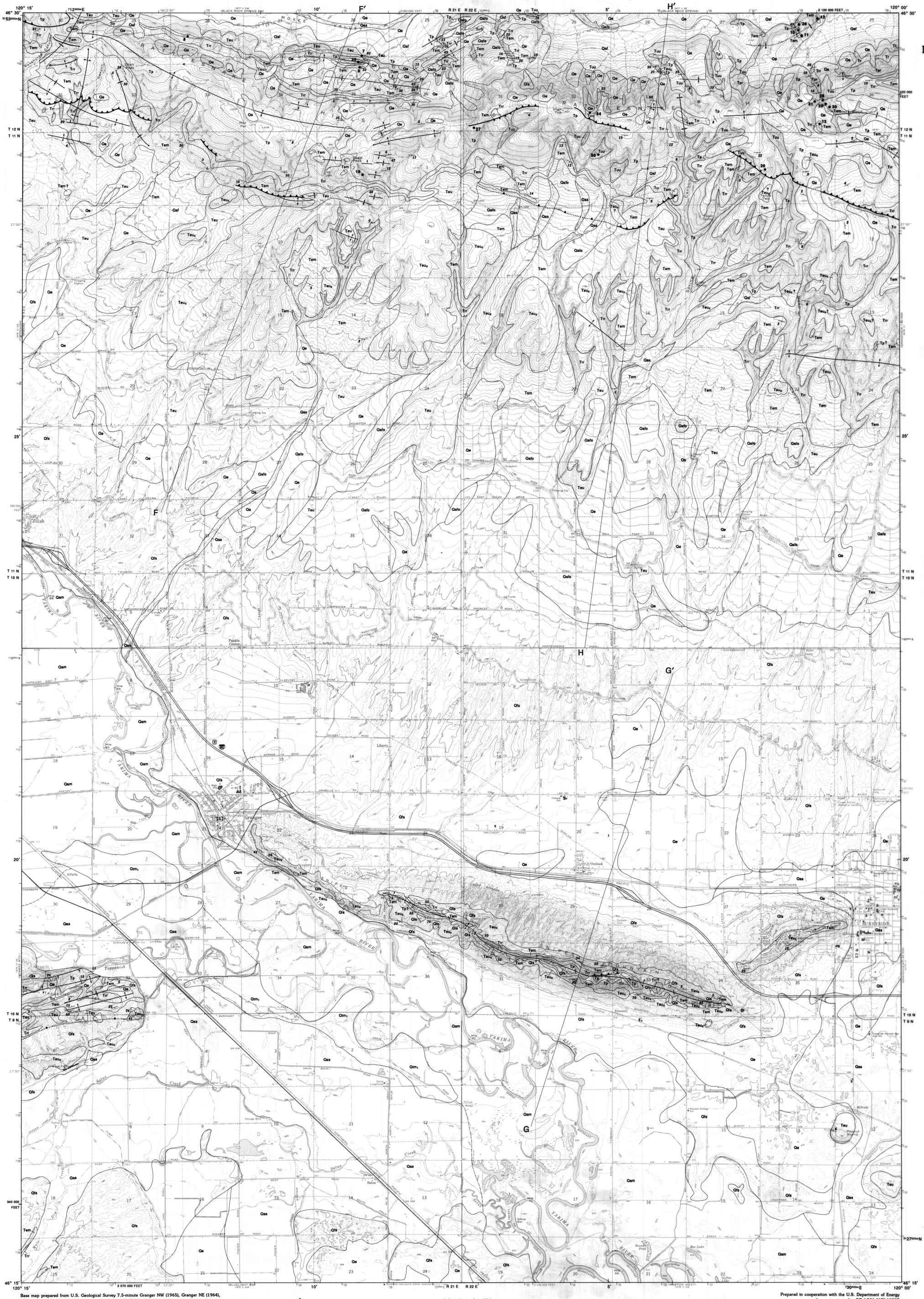
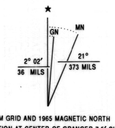
WASHINGTON STATE DEPARTMENT OF
Natural Resources
Jennifer M. Belcher - Commissioner of Public Lands
Kaleen Cottingham - Supervisor

Washington Division of Geology and Earth Resources
Open File Report 93-3
Sheet 4—Granger 15-minute quadrangle



Base map prepared from U.S. Geological Survey 7.5-minute Granger NW (1965), Granger NE (1964), Granger (1965), and Sunnyside (1965) quadrangles; 1927 North American datum
10,000-foot grid based on Washington coordinate system, south zone
1000-meter Universal Transverse Mercator grid ticks, zone 10
Interstate and primary roads updated from Washington State Department of Transportation, 1991 (Granger NW, Granger, Sunnyside)



UTM GRID AND 1965 MAGNETIC NORTH DECLINATION AT CENTER OF GRANGER 7.5′ SHEET

SCALE 1: 31,680

QUADRANGLE LOCATION

Prepared in cooperation with the U.S. Department of Energy under contract number DE-AC06-81RL10297

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

- **Qam** Alluvium, mainstream facies
- **Qas** Alluvium, sidestream facies
- Terrace deposits, mainstream alluvial deposits
  - **Qtm_1** Lower terrace deposits
- **Qaf** Alluvial fan deposits
- **Qls** Landslide deposits
- **Qe** Eolian deposits
- **Qfs** Catastrophic flood slackwater sediments
- **Qafo** Older alluvial fan deposits

Ellensburg Formation

- **Teu** Upper Ellensburg Formation, undivided
  - **Teu_c** Conglomerate of Snipes Mountain
  - **Trr** Rattlesnake Ridge 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
- **Tf** Frenchman Springs Member

EXPLANATION

Contact—*dashed where approximately located*

Thrust fault—*Dotted where concealed; sawteeth on upper plate*

Anticline—*Showing direction of plunge; dotted where concealed*

Syncline—*Showing direction of plunge; dotted where concealed*

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

11
Strike and dip of inclined beds

• 12
Geochemical sample locality

Mount St. Helens S ash