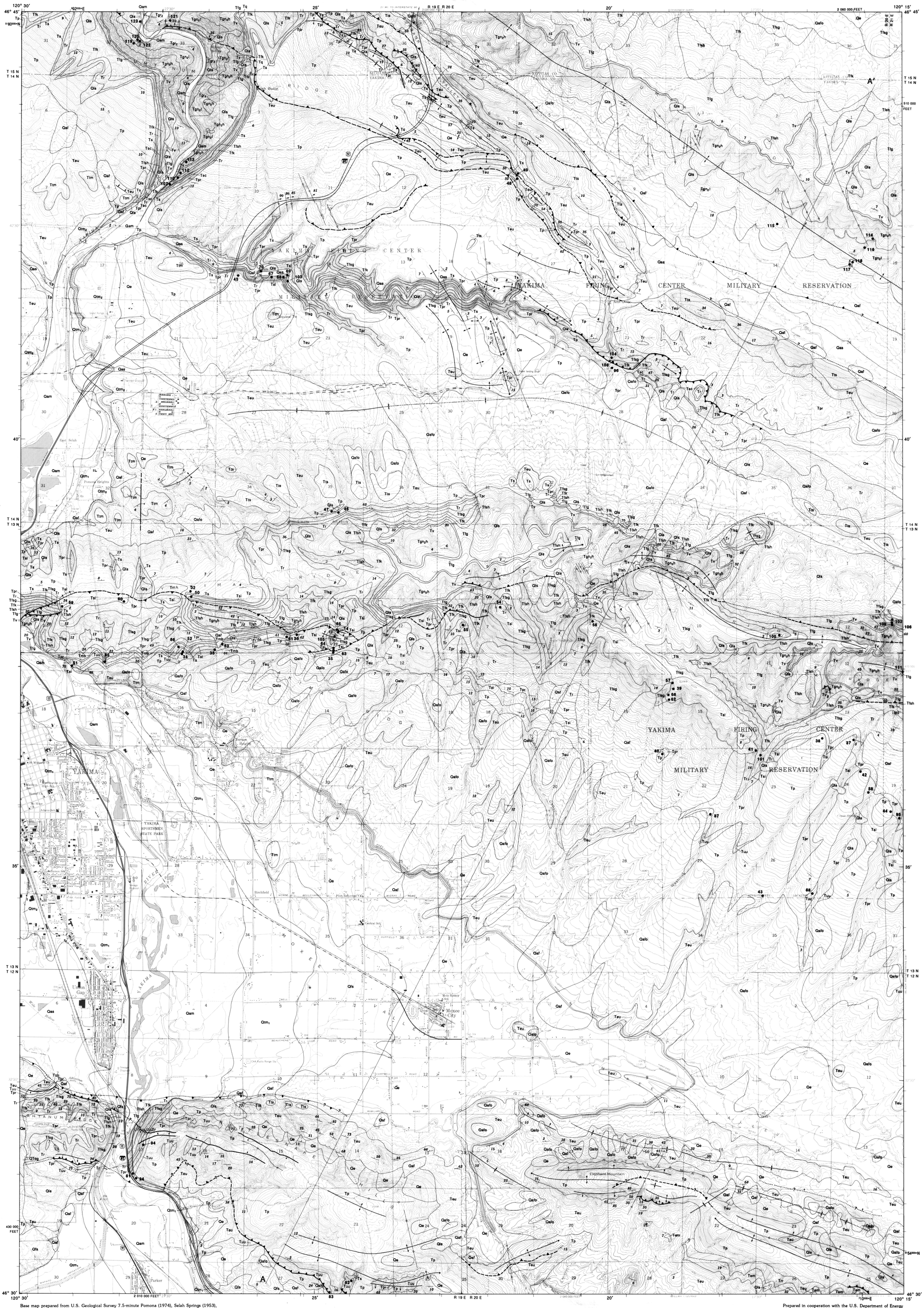
WASHINGTON STATE DEPARTMENT OF
Natural Resources
Jennifer M. Belcher - Commissioner of Public Lands
Kaleen Cottingham - Supervisor

Washington Division of Geology and Earth Resources
Open File Report 93-3
Sheet 1—Yakima East 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

- **Qam** Alluvium, mainstream facies
- **Qas** Alluvium, sidestream facies
- Terrace deposits, mainstream alluvial deposits
  - **Qtm_1** Lower terrace deposits
  - **Qtm_2** 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
- Thorp Gravel
  - **Ttm** Mainstream facies
  - **Tts** Sidestream facies

Ellensburg Formation

- **Teu** Upper Ellensburg Formation, undivided
  - **Trr** Rattlesnake Ridge Member
  - **Ts** Selah Member
  - **Tmb** Mabton Member
  - **Tsc** Squaw Creek Member
  - **Tv** Vantage Member

Columbia River Basalt Group

Saddle Mountains Basalt

- **Tem** Elephant Mountain Member
- **Tsi** Intracanyon flows
- **Tp** Pomona Member
- **Tq** Esquatzel Member
- **Tuu** Umatilla Member

Wanapum Basalt

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

Grande Ronde Basalt

- Upper basalt flows of normal magnetic polarity
  - **Tgn_2h** High-magnesium chemical type
  - **Tgn_2l** Low-magnesium chemical type
- **Tgr_2** Upper basalt flows of reversed magnetic polarity

EXPLANATION

Contact

Fault—*Dashed where approximately located; dotted where concealed; queried where uncertain; bar and ball on downthrown side*

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

Fault—*Showing relative horizontal movement*

Lineament from aerial photographs, showing dip

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

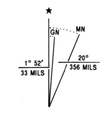
Syncline—*Dotted where concealed*

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

Strike and dip of beds (*Inclined*, *Horizontal*, *Vertical*, *Overturned*)

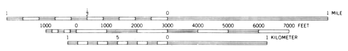
Geochemical sample locality

Base map prepared from U.S. Geological Survey 7.5-minute Pomona (1974), Selah Springs (1953), Yakima East (1974), and Elephant Mtn. (1953) 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 (Yakima East)



UTM GRID AND 1985 MAGNETIC NORTH DECLINATION AT CENTER OF YAKIMA EAST 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