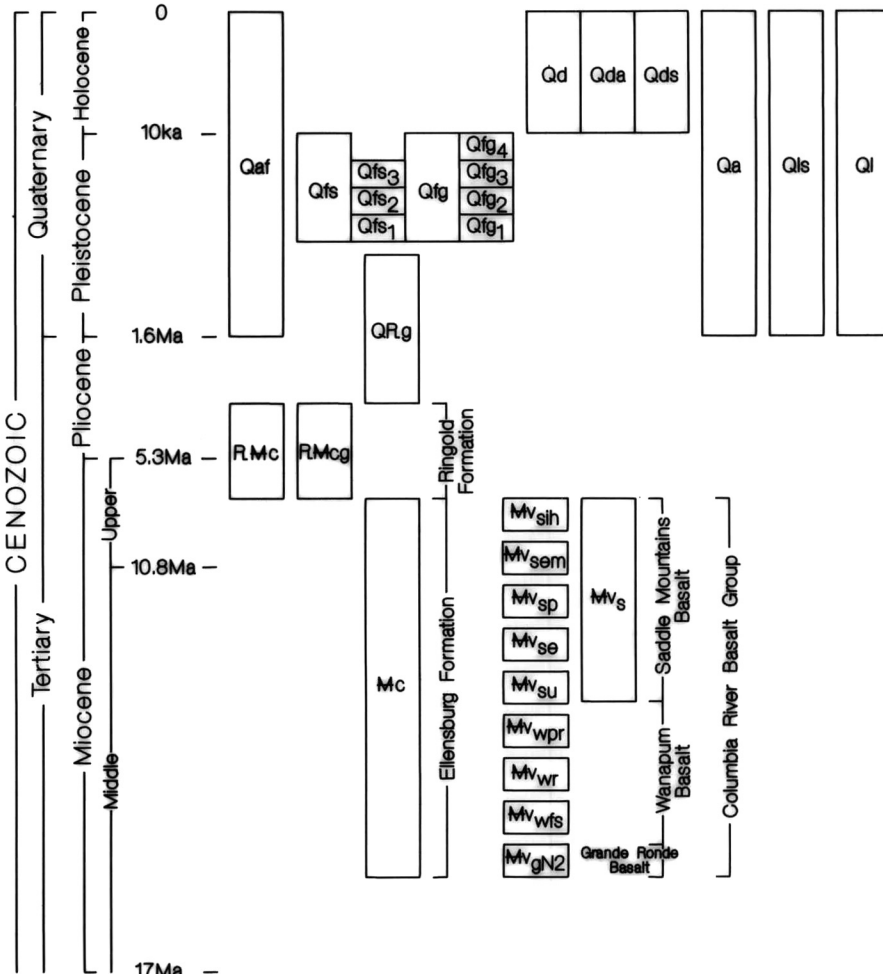


CORRELATION DIAGRAM



GEOLOGIC UNITS

SEDIMENTARY DEPOSITS AND ROCKS

QUATERNARY SEDIMENTARY DEPOSITS

- Qd Dune sand (Holocene)
- Qds Active sand dunes
- Qda Stabilized sand dune deposits
- Qa Alluvium (Holocene to Pleistocene)
- Qls Mass-wasting deposits (Holocene to Pleistocene)
- Ql Loess (Holocene to Pleistocene)
- Qaf Alluvial fans (Holocene to Pleistocene)
- Qfs Outburst flood deposits, silt and sand (Pleistocene)
- Qf3 Youngest outburst flood deposits, silt and sand
- Qf2 Oldest outburst flood deposits, silt and sand
- Qf1 Outburst flood deposits, gravel (Pleistocene)
- Qf4 Youngest outburst flood deposits, gravel
- Qf5 Oldest outburst flood deposits, gravel

QUATERNARY-TERTIARY SEDIMENTARY DEPOSITS

- Qrg Gravel (Pleistocene to Pliocene)

TERTIARY SEDIMENTARY DEPOSITS

- RMc Continental sand, silt, and clay beds (Pliocene to Miocene). Ringold Formation.
- RMcg Continental conglomerate (Pliocene to Miocene). Ringold Formation.
- Mc Continental sedimentary deposits (upper and middle Miocene). Includes Ellensburg Formation.

TERTIARY VOLCANIC ROCKS

COLUMBIA RIVER BASALT GROUP

SADDLE MOUNTAINS BASALT

- Mrs Saddle Mountains Basalt, undivided (upper and/or middle Miocene)
- Mrs Ice Harbor Member (upper Miocene)
- Mrs Elephant Mountain Member (upper Miocene)
- Mrs Pomona Member (middle Miocene)
- Mrs Esquatzel Member (middle Miocene)
- Mrs Umatilla Member (middle Miocene)

WANAPUM BASALT (MIDDLE MIOCENE)

- Mrsr Priest Rapids Member
- Mrsr Roza Member
- Mrsr Frenchman Springs Member

GRANDE RONDE BASALT (MIDDLE MIOCENE)

- Mrs2 Upper flows of normal magnetic polarity

EXPLANATION

- contact, dashed where approximately located.
- .... fault, dotted where concealed.
- ..... normal fault, dotted where concealed, bar and ball on downthrown side.
- ..... thrust fault, dashed where approximately located, dotted where concealed, teeth on upper plate.
- ..... strike-slip fault, dotted where concealed, arrows show direction of movement.
- ..... anticline, dashed where approximately located, dotted where concealed, showing plunge direction.
- ..... syncline, dotted where concealed.
- ..... monocline, dotted where concealed, arrow on steeper limb.
- ..... strike and dip of inclined beds.
- ..... same geologic unit.

GEOLOGIC MAP OF THE RICHLAND 1:100,000 QUADRANGLE, WASHINGTON

Compiled by

STEPHEN P. REIDEL AND KARL R. FECHT  
JUNE 1994



SCALE 1:100,000  
1 0 1 2 3 4 5 6 7 8 9 10  
KILOMETERS  
1 0 1 2 3 4 5  
MILES  
5000 0 5000 10000 15000 20000 25000  
FEET  
CONTOUR INTERVAL 20 METERS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
PROJECTION AND 10,000-METER GRID, ZONE 11  
UNIVERSAL TRANSVERSE MERCATOR  
50,000-FOOT GRID TICS BASED ON WASHINGTON COORDINATE SYSTEM, SOUTH ZONE  
BASE MAP BY USGS  
EDITED - 1978

UTM GRID AND 1978 MAGNETIC NORTH  
DECLINATION AT CENTER OF MAP  
1° 48' 32" M  
21° 12' 32" M