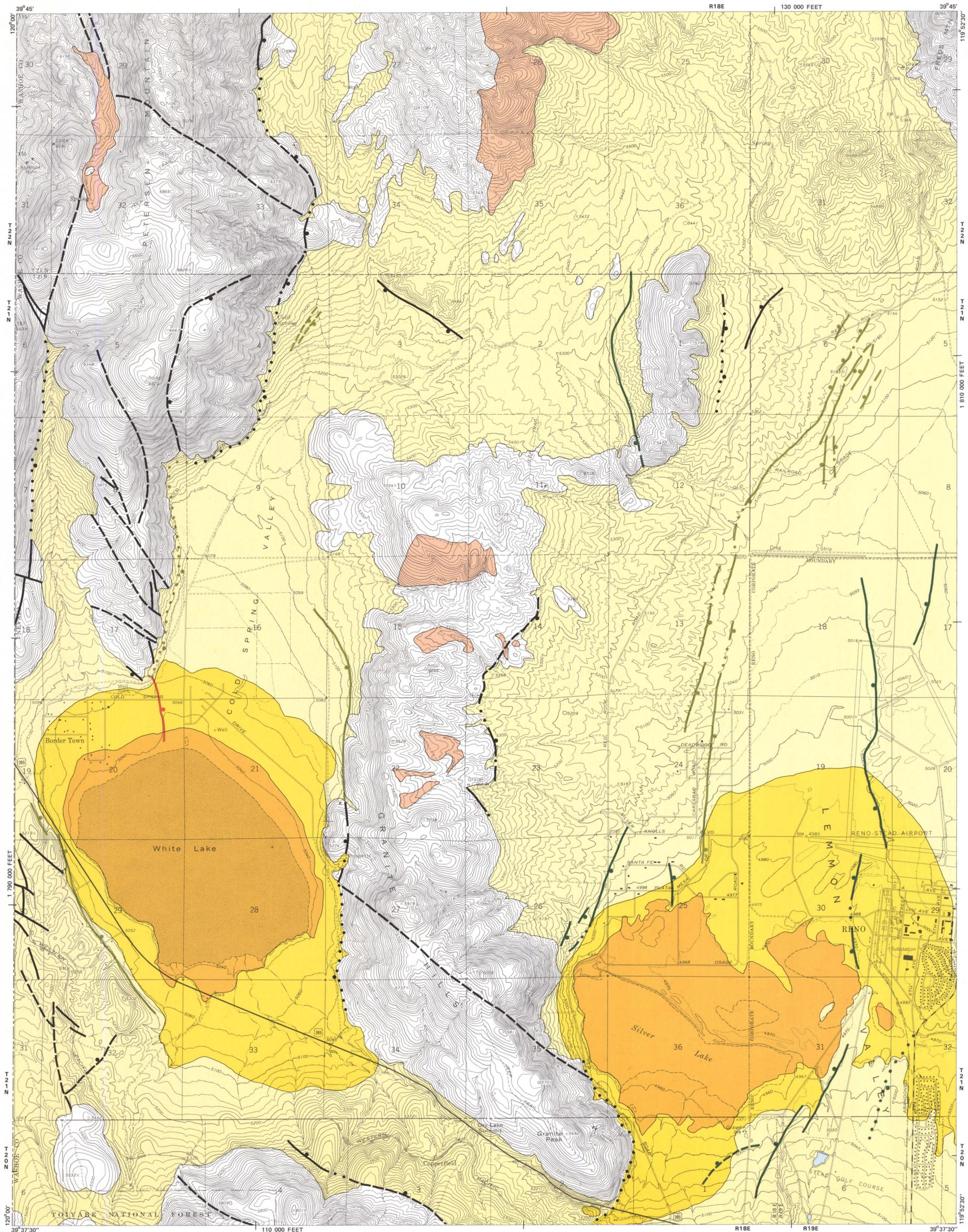


RENO  
NW  
QUAD



EARTHQUAKE  
HAZARDS

POTENTIAL FOR GROUND SHAKING DURING EARTHQUAKES

INCREASING INTENSITY OF SHAKING AND POTENTIAL HAZARD  
Possibly 3 units Mercalli intensity scale difference from I to IV

- I** Greatest severity of shaking. Depth to ground water less than 3 m (10 ft). Unconsolidated deposits with low rigidity. Possible severe liquefaction locally
- II** Moderate severity of shaking. Includes units from I where depth to ground water is greater than 3 m (10 ft); also includes unconsolidated deposits with moderate to moderately high rigidity where depth to ground water is less than 10 m (33 ft). May be subject to liquefaction
- III** Moderate severity of shaking. Includes unconsolidated deposits with moderate to moderately high rigidity where depth to ground water is greater than 10 m (33 ft); also includes moderately indurated deposits with moderately high rigidity where depth to ground water is less than 10 m (33 ft)
- IV** Least severity of shaking. Underlain by bedrock

**V** Variable severity of shaking. Includes isolated areas where older alluvium overlies bedrock and quartz monzonite that varies in degree and depth of weathering

POTENTIAL FOR SURFACE RUPTURE  
Age of youngest fault displacement

- Red line** Holocene (< 12,000 years)
- Yellow line** Mid- to late Pleistocene (approximately 35,000–100,000 years)
- Green line** Early to late Pleistocene (approximately 35,000 years–1.8 m.y.)
- Black line** Indeterminate; predominately bedrock faults of probable pre-Pleistocene age and bedrock-alluvial faults of probable mid- to late Pleistocene age. However, recent fault movements are not precluded in this category

Note: Ages of most recent movement on faults in this quadrangle are based on geomorphic, soil, and geologic evidence. In some cases, trenching data were available; however, where these data were unavailable, more recent fault movements are not precluded.

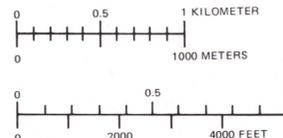
- Solid line with ball** Fault. Ball on downthrown side; dashed where approximately located; dotted where concealed

Gail Cordy Szecsody, 1983

Assisted by Michael R. Nichol

Geology by Soeller and Nielsen (1980) Geologic map, Reno NW quadrangle: Nevada Bureau of Mines and Geology Map 4Dg.  
Depth to ground water based on geotechnical borings, compilation of existing ground-water reports by Harrill (1973), Dowden (1981), and Van Denburgh (1982).

Scale 1:24,000



CONTOUR INTERVAL 20 FEET  
DOTTED LINES ARE 10-FOOT CONTOURS  
DATUM IS MEAN SEA LEVEL

The hazards shown on this map are based upon data currently available. Shaking characteristics are inferred from interpretations of geologic, seismic velocity, soils engineering, and ground-water information. Surface rupture potentials are inferred from generalized geologic and soils (weathering profile) information.

These data are intended to be used only as a generalized guide and will be subject to change as more data become available.

Assessment of seismic hazard potential for individual sites must be based upon detailed engineering and seismic studies; such assessments should not be inferred from this map.

Topographic base from U.S. Geological Survey Reno NW 7 1/2' quadrangle, 1967  
Cartography by Larry Jacox

Research for this map supported by U.S. Geological Survey Earthquake Hazards Reduction Grant No. 14-08-0001-19823  
NEVADA BUREAU OF MINES AND GEOLOGY UNIVERSITY OF NEVADA, RENO RENO, NEVADA 89557-0088 ORDER MAP NO. 4DI