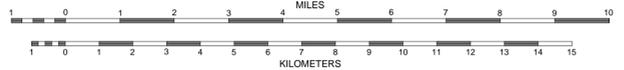


- EXPLANATION**
- Valley-fill aquifer
 - Welded-tuff aquifer and tuff confining unit
 - Granite—Minor confining unit
 - Upper carbonate-rock aquifer
 - Eleana confining unit
 - Lower carbonate-rock aquifer
 - Quartzite confining unit
 - Area of potential recharge to ground-water system—Area having sufficient precipitation or surface ponding to recharge ground water
 - A** Rainier Mesa Expl. 1
 - Line of section—Symbol identifies control point. Sections, which are shown on plate 2, extend southwestward beyond southern limits of this map (complete line of section is shown on plate 1)
 - Hydraulic sink—Probable area of greater ground-water flow into carbonate aquifer from Cenozoic rocks (valley-fill and welded-tuff aquifer). Delineates 2,400-foot water-level contour within Cenozoic rocks. Modified from Winograd and Thordarson (1975, plate 1)
 - Fault—Approximate location of subsurface trace at altitude of water table
 - Ground-water subbasin boundary—Arrow indicates location and direction of lateral flow across boundary. Queried where uncertain. Modified from Waddell and others (1984, plate 3) and Winograd and Thordarson (1975, plate 1)
 - Water-level contour—Shows altitude of water level in carbonate or clastic rock. Interval, in feet, is variable. Datum is sea level. Modified from Winograd and Thordarson (1975, plate 1)
 - 6 Area boundary and number within Nevada Test Site
 - Hydrographic-area boundary—Delineates Yucca Flat Hydrographic Area to north and Frenchman Flat Hydrographic Area to south (see index map, plate 1)
 - General direction of ground-water flow—Size of arrow indicates relative volume of ground-water flow
 - UE-5c Water-supply well

Base from U.S. Geological Survey digital data, 1:100,000, 1981-88; Universal Transverse Mercator projection, Zone 11. Shaded-relief base from 1:250,000-scale Digital Elevation Model; sun illumination from northwest at 30 degrees above horizon. 25,000-foot grid based on Nevada State Plane coordinate system, central zone

Geology by J.C. Cole, 1991



MAP SHOWING MAJOR CONTROLS ON GROUND-WATER FLOW AND DISTRIBUTION OF HYDROGEOLOGIC UNITS AT WATER TABLE IN YUCCA FLAT AND FRENCHMAN FLAT AREAS, SOUTHERN NEVADA

by
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