



Note: All lithologic units are part of Oak Spring formation of Tertiary age and compose upper Tos₄ (J), Tos₅ (K-L), Tos₆ (M-O) and lower Tos₇ (P-Z) of Hansen and Lemke (1957, p 14)

Z
Light purplish-brown, cross-bedded, tuffaceous sandstone in part conglomeratic; grades up to white coarse lapilli tuff. Erosional unconformity at base

Y
Soft white very coarse-grained tuff

X
Reddish-brown tuff with abundant 1/2 inch diameter white pumice fragments. Lower contact gradational with unit W

W
Grayish-white, very poorly bedded coarse lapilli tuff

V
Reddish-brown and white pumiceous tuff, undifferentiated

U
White and reddish-brown tuff, undifferentiated

T
Chalky-white tuff with coarse lithic fragments

EXPLANATION

S Pumiceous tuff with irregular reddish-brown and white zones	K Pale buff, soft, fine-grained tuff with dark quartzite fragments and little crystalline material
R Grayish-cream fine-to medium-grained tuffaceous sandstone	J Indistinctly bedded, variably soft tuffs, banded and mottled red and white
Q Greenish-gray sandy tuff	58 U' Fault, showing dip U, upthrustside; D, downthrown side Dashed where inferred
P Light reddish-brown, medium-grained sandy tuff with small white flattened pumice fragments	21 Contact, showing dip Dashed where approximately located
O Light reddish-brown slightly welded tuff	27 Strike and dip of beds
N Red and gray rhyolitic welded tuff	80 Strike and dip of joint
M Volcanic breccia	— Outline of tunnel
L Tuff, greenish-yellow, fine-grained, well bedded	— Axis of syncline Dashed where approximately located; queried where doubtful; arrow indicates direction of plunge

References: Gibbons, A. B., 1958, Geologic effects of the Rainier underground test—preliminary report: U. S. Geological Survey TEI-718, 35 pp
Hansen, W. R., and Lemke, R. W., 1957, Geology of the U.S. G. S. and Rainier tunnel areas, Nevada Test Site, U. S. Geological Survey TEI-716, 11pp

3-1
FIGURE 3-1 —GEOLOGIC MAP AND CROSS SECTIONS OF THE UI2b TUNNEL, RAINIER MESA, TIPPIAH SPRING QUADRANGLE, NYE COUNTY, NEVADA

50 25 0 50 100 150 Feet
Scale
Datum is waist level of tunnel (6610')

Compiled and modified by F. N. Houser from maps and data of D. D. Dickey, F. N. Houser, F. A. McKeown, F. G. Poole, and V. R. Wilmarth, 1958 and A. B. Gibbons, (1958, Figure 3)