



EXPLANATION

Geologic Units

Quaternary

Qu Quaternary surficial deposits, undifferentiated

Tertiary

Tiva Canyon Tuff

Crystal-rich member

Vitric zone

crv Vitrophyre subzone (Tpcrv1)*

Nonlithophysal zone and (locally present) lithophysal zone

cr3 Pumice-poor subzone (Tpcrn3)*

cr2 Mixed-pumice subzone (Tpcrn2, Tpcrl2)*

cr1 Crystal-transition subzone (Tpcrn1, Tpcrl1)*

Crystal-poor member

cpul Upper lithophysal zone (Tpcpl)*

cpum Upper lithophysal zone and middle nonlithophysal zone, undifferentiated (Tpcpmn, Tpcpl)*

cpmn3 Upper nonlithophysal subzone of middle nonlithophysal zone (Tpcpmn3)*

cpil Lower lithophysal zone (including Tpcpl, Tpcpmn1, Tpcpmn2)*

cpin Lower nonlithophysal zone (Tpcpln)*

cpv Vitric zone (Tpcpv)*

bt Bedded tuff beneath the Tiva Canyon Tuff

* Abbreviation of informal stratigraphic nomenclature by Buesch and others (1996)

cpil cpin

Contact—Solid where exposed or tightly constrained, dashed where approximately located, dotted where concealed beneath Quaternary surficial deposits, queried where inferred or uncertain

85 Strike of dip of prominent joint or joint set

Strike of vertical joints

Fault—Solid where exposed or tightly constrained, dashed where approximately located, dotted where concealed beneath Quaternary surficial deposits, queried where inferred or uncertain

Breccia

Surface trace of breccia zone

Prominent concentration of fault breccia float

Reference cited:

Buesch, D.C., Spengler, R.W., Moyer, T.C., and Geslin, J.K., 1996, Proposed stratigraphic nomenclature and macroscopic identification of lithostratigraphic units of the Paintbrush Group exposed at Yucca Mountain, Nevada: U.S. Geological Survey Open-File Report 94-469, 45 p.

Geologic map showing the Sundance Fault zone and adjacent areas, Diabolus Ridge to Live Yucca Ridge

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1:25,000

SCALE IN FEET

SCALE IN METERS

SCALE 1:2,400

CONTOUR INTERVAL 10 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

Topographic base map from the 1:62,500 scale topographic contour data produced from the orthophotographic mission flown in 1980 by ES&S for the U.S. Department of Energy, Nevada State Plane coordinates (in feet) are for the central zone of Nevada and are based on polyconic projection.

Mapping done spring 1995 by C.J. Potter, R.P. Dickerson, W.C. Day, and Karl Kellogg. Digital cartography by R.L. Blackburn and A.J. Donatich. 1United States Geological Survey, Denver, Colorado 2Science Applications International Corporation, Denver, Colorado