

**GEOLOGIC MAP OF THE MOUND SPRING QUADRANGLE,  
NYE AND CLARK COUNTIES, NEVADA, AND INYO COUNTY, CALIFORNIA**

By

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2002

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*Prepared in cooperation with the Nye County Nuclear Waste Repository Project Office*

MISCELLANEOUS FIELD STUDIES MAP MF-2339  
Version 1.0  
*Pamphlet accompanies map*

U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY

Base from U.S. Geological Survey, 1984, Provisional Edition  
Universal Transverse Mercator projection  
Longitude of central meridian 111° 48' 45"  
Latitude of projection origin 0.0  
North American Datum of 1927; 10,000-foot grid based on  
Nevada central and east zones and California zone 4  
1,000-meter grid ticks, zone 11

Geology mapped by Scott Lundstrom in 1997-98

Digital map layout by Bill Sowers  
Preparation of GIS files for map layout by Nancy Shock  
Edited by F. Craig Brunstein

Manuscript approved for publication September 16, 2002

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CONTOUR INTERVAL 5 METERS  
SUPPLEMENTARY CONTOUR INTERVAL 2.5 METERS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929

#### LIST OF MAP UNITS

##### Gravelly alluvium

<b>Qayy</b>	<b>Youngest alluvium (Holocene)</b>
<b>Qay</b>	<b>Young fan alluvium (Holocene and latest Pleistocene)</b>
<b>Qayo</b>	<b>Older young alluvium (Holocene and latest Pleistocene)</b>
<b>Qai</b>	<b>Intermediate fan alluvium (late and middle? Pleistocene)</b>
<b>Qau</b>	<b>Undivided young and intermediate alluvium (Holocene and late Pleistocene)</b>
<b>QTa</b>	<b>Gravelly basin-fill alluvium (early Pleistocene? to late Miocene)</b>

##### Fine-grained deposits

<b>Qd</b>	<b>Dune sand (late Holocene)</b>
<b>Qpy</b>	<b>Modern playa sediment (late Holocene)</b>
<b>Qfy</b>	<b>Intermittently active fluvial fine-grained alluvium (late Holocene)</b>
<b>Qfo</b>	<b>Older fine-grained deposits (Holocene?)</b>
<b>Qsy</b>	<b>Youngest spring deposits (late Holocene)</b>
<b>Qse</b>	<b>Unit E (Haynes, 1967; Quade, 1986)—Young fine-grained deposits associated with past ground-water discharge (early Holocene to latest Pleistocene)</b>
<b>Qscd</b>	<b>Units C and D (Haynes, 1967; Quade, 1986)—Intermediate-age fine-grained deposits associated with past ground-water discharge (late Pleistocene)</b>
	<b>Basin-fill of Browns Spring (Pleistocene)</b>
<b>Qby</b>	<b>Upper part of basin-fill of Browns Spring (middle Pleistocene)</b>
<b>Qbw</b>	<b>Middle white limestone of basin-fill of Browns Spring (middle Pleistocene)</b>
<b>Qbo</b>	<b>Lower part of basin-fill of Browns Spring (early? and middle Pleistocene)</b>
<b>Qsu</b>	<b>Undivided fine-grained deposits (Holocene and Pleistocene)</b>

**Contact**—Solid where definitely located; dashed where approximately located

**Fault**—Ball and bar on downthrown side, arrows show relative sense of offset. Solid where definitely located; dashed where approximately located; dotted where concealed

**Tension crack**—In fine-grained sediments; lacking apparent offset

**Gravity contour**—Gravity anomaly data contoured at 1 mgal contour interval. Hachures on selected contours point toward lower anomaly values

**Strike and dip of beds**

**Sample locality**—Sites where geochronology samples were collected for uranium-series dating by James B. Paces (sample numbers starting with “MSQ”) and for thermoluminescence dating by Shannon A. Mahan (sample numbers starting with “LV”)