DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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*Prepared on behalf of the U. S. Department of Energy*

# FIGURE 3

## GENERALIZED GEOLOGIC MAP OF THE SITE VICINITY

(CROSS-SECTIONS SHOWN ON FIGURE 4)

### EXPLANATION

CORRELATION OF MAP UNITS

| | | | | |
|---|---|---|---|---|
| PLEISTOCENE | Qb | | QTa | QUATERNARY |
| MIOCENE | Tzcl | Tb | | TERTIARY |
| | Tsr | | | |
| | Tfr | | | |
| | Tm | | | |
| | Twr | | | |
| | Tp | Tpr | Tbs | Ti |
| | Tw | | | |
| | Tcb / Tcf | | | |
| | Tc | Tr | | |
| | Tlr | | | |
| | Ty | | | |
| UPPER CLASTIC AQUITARD | MDe | MISSISSIPPIAN AND DEVONIAN | | |
| CARBONATE AQUIFER | Pzc | CAMBRIAN TO MISSISSIPPIAN | | |
| LOWER CLASTIC AQUITARD | €Zq | PRECAMBRIAN AND CAMBRIAN | | |

### DESCRIPTION OF MAP UNITS

- **Qb** BASALT LAVA AND PYROCLASTIC ROCKS
- **QTa** ALLUVIUM AND COLLUVIUM
- **Tzcl** LANDSLIDE OF PALEOZOIC ROCKS
- **Tsr** RHYOLITE OF SHOSHONE MOUNTAIN (INCLUDES OTHER RHYOLITE LAVASOF APPROXIMATELY THE SAME AGE)
- **Tb** BASALT (INCLUDES BASALT OF DOME MOUNTAIN ,SKULL MOUNTAIN,JACKASS FLATS,KIWI MESA AND OTHERS)
- **Tfr** RHYOLITE OF FORTYMILE CANYON (INCLUDES ALL POST-TIMBER MOUNTAIN TUFF RHYOLITE LAVA NOT GROUPED WITH Tsr)
- **Tm** TIMBER MOUNTAIN TUFF (INCLUDES RAINER MESA AND AMMONIA TANKS MEMBERS,ASWELL AS TUFFS OF BUTTONHOOK WASH AND CUTOFF ROAD)
- **Twr** RHYOLITE OFWINDY WASH
- **Tp** PAINTBRUSH TUFF (INCLUDES THE TOPOPAH SPRING, PAH CANYON,YUCCA MOUNTAIN AND TIVA CANYON MEMBERS,AS WELL AS TUFFS OF CHOCOLATE MOUNTAIN AND PINYON PASS IN THE CLAIM CANYON CALDERA CALDRON)
- **Tpr** RHYOLITE LAVA ASSOCIATED WITH PAINTBRUSH TUFF
- **Tw** WAHMONIE AND SALYER FORMATIONS
- **Tcb** TUFF AND BRECCIA(Tcb) AND RHYOLITE LAVA(Tcf)OF
- **Tcf** CALICO HILLS
- **Tc** CRATER FLAT TUFF (INCLUDES PROW PASS, BULLFROG AND TRAM MEMBERS
- **Tr** RHYOLITE LAVA ASSOCIATED WITH CRATER FLAT TUFF AND LITHIC RIDGE TUFF (INCLUDES DIKES ON BARE MOUNTAIN)
- **Tlr** LITHIC RIDGE TUFF
- **Ty** TUFF OF YUCCA FLAT
- **Tbs** BEDDED AND ASHFLOW TUFF,SEDIMENTARY ROCKS AND CALDERA-FILL DEPOSITS(LOCALLY INCLUDES LITHIC RIDGE TUFF).
- **Ti** INTRUSIVE ROCKS,DIKES AND PLUGS,ANDESITIC TO RHYOLITIC
- **MDe** ELEANA FORMATION
- **Pzc** CARBONATE ROCKS (INCLUDES CARRA FORMATION OF CAMBRIAN AGE THROUGH LIMESTONE OF MISSISSIPPIAN AGE)
- **€Zq** CLASTIC ROCKS (ZABRISKIE QUARZITE AND OLDER).

CONTACT

FAULT, DOTTED WHERE CONCEALED, BAR AND BALL ON DOWNTHROWN SIDE. ARROWS INDICATE RELATIVE LATERAL MOVEMENT

T/A RELATIVE FAULT MOVEMENT TOWARD (T) AND/ AWAY (A) FROM VIEWER ON CROSS-SECTION ONLY

FAULT SCARP BETWEEN BEDROCK AND SURFICIAL DEPOSITS

FAULT,GRAVITYSLIDE, TEETH ON SLIDE BLOCK

THRUST FAULT. TEETH ON UPPER PLATE

SYNCLINAL AXIS

ANTICLINAL AXIS

GENERALIZED STRIKE AND DIP

GENERALIZED STRIKE AND DIP OVERTURNED BEDS

● J-13 DRILL HOLE

7O LOCATION OF TRENCH EXCAVATED TO EVALUATE EXTENT AND AGE OF SELECTED FAULTS

INFERRED CALDERA BOUNDARY

SCALE 1:48,000

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.