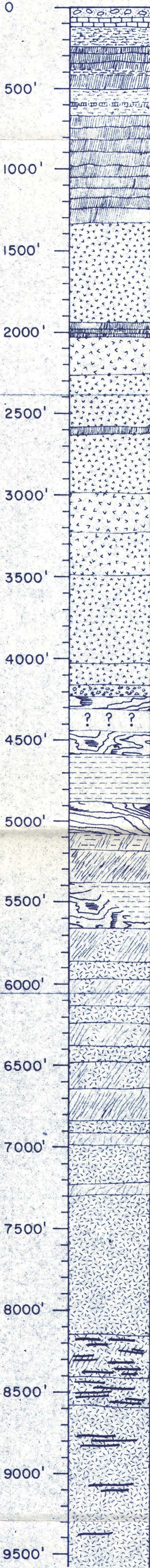


COLLAR ELEVATION = 4595'

TERTIARY

FEET BELOW SURFACE



0 SAND AND BOULDERS
LIMESTONE - FRESHWATER
TUFFACEOUS LACUSTRINE SEDIMENTS - SOME CLAY AND IMPURE DIATOMITE WITH
OCCASIONAL SILICIFICATION (TRUCKEE FORMATION)

500' BASALTIC ANDESITE, ANDESITE, AND BASALT WITH OCCASIONAL INTERBEDDED
FINE-GRAINED LACUSTRINE DEPOSITS
(CHLOROPAGUS FORMATION)

1000'

1500' DACITE ASH-FLOW TUFF, GENERALLY BLUE-GREEN IN COLOR WITH ABUNDANT
BIOTITE AND FELDSPAR CRYSTALS

2000' BASALT DIKE
RHYOLITIC TUFFS. THIS UNIT APPEARS TO CONSIST OF FROM 3 TO 6 SUBUNITS
RANGING IN COMPOSITION FROM DACITE TO RHYOLITE

2500' DACITE ASH-FLOW TUFFS, GENERALLY GREY IN COLOR WITH FEW BIOTITE AND
FELDSPAR CRYSTALS. LITHIC FRAGMENTS ARE COMMON.
BASALT DIKE

3000' DACITE ASH-FLOW TUFFS. THIS IS THE SAME UNIT AS BETWEEN 2275' AND 2580'.
THE BOTTOM PART OF THIS UNIT IS COMPOSED OF SOFT BENTONITIC CLAY.
THERE ARE NO EASILY VISIBLE CRYSTALS IN THIS UNIT

3500' RHYOLITE TUFFS WITH COMMON BIOTITE, FELDSPAR, AND QUARTZ CRYSTALS.
THIS UNIT IS PROBABLY COMPOSED OF 3 OR 4 SUBUNITS

4000' DACITE TO RHYODACITE TUFF, LIGHT GREEN, VERY FINE-GRAINED. A FEW QUARTZ,
FELDSPAR, AND BIOTITE CRYSTALS ARE PRESENT. THIS UNIT IS PARTIALLY SILICIFIED.

4500' DACITE TUFF, FINE-GRAINED, NONCRYSTALLINE, LIGHT GREEN
GRAVEL, TALUS (?), AND SOIL (?). CONTAINS BOTH PHYLLITE AND VOLCANIC CHIPS
PHYLLITE
METASEDIMENTS OR METAVOLCANICS. FINE-GRAINED, MASSIVE, GREY-GREEN CHIPS
PHYLLITE

5000' QUARTZITE AND/OR ARGILLITE. NONCALCAREOUS, FINE-GRAINED, WHITE TO LIGHT
GREEN TO GREY IN COLOR. THIS UNIT CONTAINS A SMALL AMOUNT OF MICA
SCHIST
PHYLLITE

5500' CHLORITE SCHIST AND HORNFELS. THIS UNIT APPEARS TO BE CONTACT METAMORPHOSED
PHYLLITE WITH SOME INTERBEDDED MICA SCHIST AND IMPURE QUARTZITE OR ARGILLITE

6000' CHLORITE SCHIST AND HORNFELS. THIS UNIT HAS BEEN INTRUDED BY FOUR GRANITE
DIKES. THE FIRST GRANITE IS PRESENT AT 5730 FEET. CHIPS OF BIOTITE SCHIST
ARE ABUNDANT
GRANITE VERY LOW IN MAFIC MINERALS, COMPOSED OF FELDSPAR, QUARTZ, AND
BIOTITE ALTERED TO CHLORITE
CHLORITE SCHIST AND HORNFELS WITH GRANITE DIKES AND SOME BIOTITE SCHIST

6500' GRANITE
CHLORITE SCHIST, HORNFELS, AND GRANITE
GRANITE
GRANITE, CHLORITE SCHIST, AND HORNFELS
CHLORITE SCHIST AND HORNFELS

7000' GRANITE
CHLORITE SCHIST AND HORNFELS
GRANITE
CHLORITE SCHIST AND HORNFELS

7500' GRANITE

8000' GRANITE, CHLORITIC SCHIST AND HORNFELS, AND FAULT GOUGE

8500'

9000' GRANITE. ON THE LOGS THIS UNIT APPEARS TO BE FRESH AND RELATIVELY
HOMOGENOUS, HOWEVER THE CUTTINGS ARE A MIXTURE OF FRESH GRANITE,
IRON-STAINED GRANITE, AND FAULT GOUGE. THE BOTTOM OF THE INTERVAL APPEARS
TO BE RELATIVELY FRESH. FAULT GOUGE IS ESPECIALLY ABUNDANT BETWEEN 8470
AND 8630 FEET. BELOW 9120 FAULT GOUGE APPEARS TO BE LESS COMMON

9500'

TOTAL DEPTH = 9641'

MESOZOIC

LITHOLOGIC LOG OF DESERT PEAK B 23-1

LOCATION = SW NW SECTION 23, T.22 N., R.27 E.

DATE STARTED = 3-19-79

DATE COMPLETED = 5-30-79