PREPARED IN COOPERATION WITH THE
UNITED STATES ATOMIC ENERGY COMMISSION

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

TRACE ELEMENTS INVESTIGATIONS REPORT 789

E 660,000 E 662,000 E 664,000

N 742,000 N 740,000 N 738,000 N 736,000 N 734,000 N 732,000 N 730,000

EXPLANATION

Qal — Alluvium
Mixed sand, fine gravel, and boulders — QUATERNARY

QTc — Conglomerate
Poorly sorted; sandstone matrix; firmly cemented with calcium carbonate

QTb — Basalt
Occurs as isolated remnants of flow or as concentrations of weathered rubble

TERTIARY(?) OR QUATERNARY(?)

UNCONFORMITY

Toh_7 — Pumiceous tuff
White to pink, nonbiotitic, massive, highly pumiceous; contains common lithic fragments; upper part is salmon pink, hard, incipiently welded locally

UNCONFORMITY

Toh_6 — Felsite flow sequence
Light-gray, dark-gray, black, reddish-brown; hard, thick sequence forms hills and cliffs

UNCONFORMITY(?)

Toh_5 — Tuffaceous sandstone
Light-gray, tuffaceous; chiefly thin bedded; prominently cross stratified; locally somewhat conglomeratic near top

UNCONFORMITY

Toh_4 — Conglomerate
Cobbles to large boulders of reddish, medium-gray, and dark-gray welded tuff or felsite and andesite in a gray, coarse, tuffaceous sandstone matrix

UNCONFORMITY

Toh_{3a} / Toh_3 — Pumiceous agglomerate
Highly pumiceous, light-gray to tan-gray, locally contains common to abundant lithic fragments, to the north upper part contains lenses of welded tuff or felsite agglomerate

UNCONFORMITY(?)

Toh_2 — Tuffs and tuffaceous sedimentary rocks
Medium-gray to light-gray; locally yellowish or reddish; similar in composition to Toh_1 but thin- to thick-bedded; contains local lenses of cobble conglomerate

Toh_1 — Lithic tuff
White, cream-colored, and light-gray; nonbedded, contains abundant granule- to cobble-size fragments of gray, brownish, and reddish welded crystal tuff or lava

Miocene(?) or younger Oak Spring formation — TERTIARY

Contact
Dashed where approximately located; short dashed where inferred

Fault, showing dip
Dashed where approximately located; short dashed where inferred; dotted where concealed; queried where probable. U, upthrown side; D, downthrown side

Strike and dip of beds

Strike and dip of flow banding

Tapography from enlargements of U.S. Geological Survey preliminary quadrangles

Geology by R.E. Davis, D.P. Elston, D.D. Dickey, F.N. Houser, and V.R. Wilmarth, August 1960

TRUE NORTH 16° MAGNETIC NORTH

Scale
1000 500 0 1000 2000 3000 Feet
Contour interval 20 feet

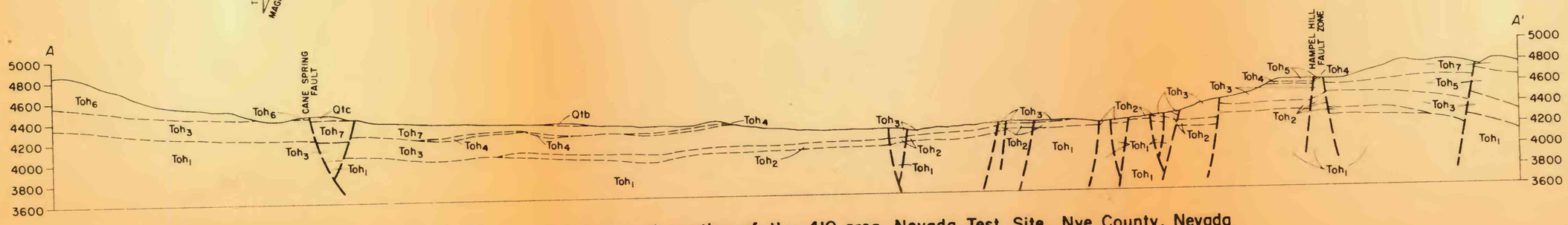

Figure 2. - Geologic map and section of the 410 area, Nevada Test Site, Nye County, Nevada