(200)
T67r
no. 142

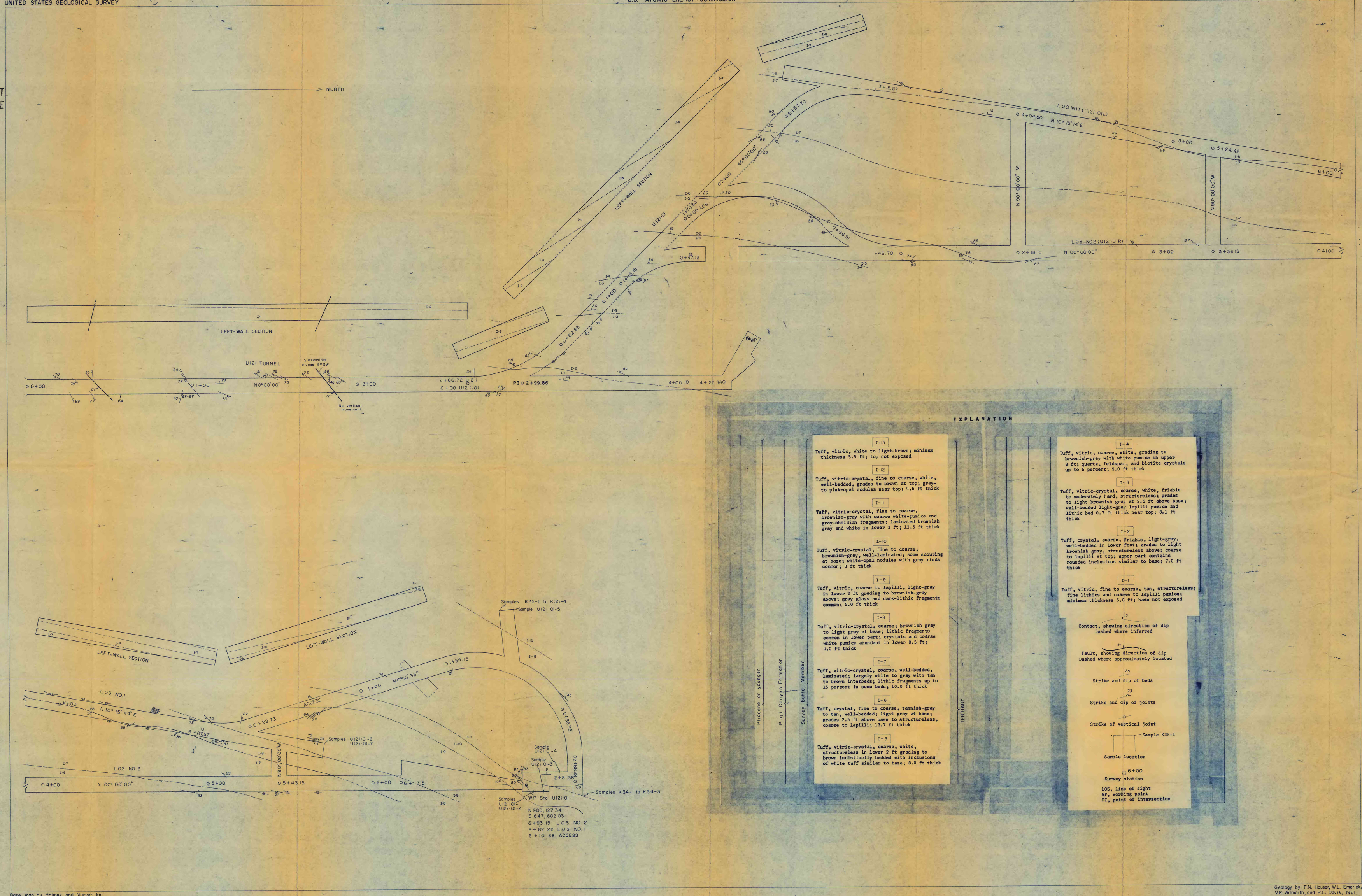
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
U.S. ATOMIC ENERGY COMMISSION

TEI-842

PLEASE REPLACE IN POCKET
IN BACK OF BOUND VOLUME

U.S. GEOLOGICAL SURVEY
LIBRARY
MAR 25 1965
DENVER



EXPLANATION

Pliocene or younger

Piapi Canyon Formation

Survey Butte Member

I-13
Tuff, vitric, white to light-brown; minimum thickness 5.5 ft; top not exposed

I-12
Tuff, vitric-crystal, fine to coarse, white, well-bedded, grades to brown at top; gray- to pink-opal nodules near top; 4.6 ft thick

I-11
Tuff, vitric-crystal, fine to coarse, brownish-gray with coarse white-pumice and gray-obsidian fragments; laminated brownish gray and white in lower 3 ft; 12.5 ft thick

I-10
Tuff, vitric-crystal, fine to coarse, brownish-gray, well-laminated; some scouring at base; white-opal nodules with gray rinds common; 3 ft thick

I-9
Tuff, vitric, coarse to lapilli, light-gray in lower 2 ft grading to brownish-gray above; gray glass and dark-lithic fragments common; 5.0 ft thick

I-8
Tuff, vitric-crystal, coarse; brownish gray to light gray at base; lithic fragments common in lower part; crystals and coarse white pumice abundant in lower 0.5 ft; 4.0 ft thick

I-7
Tuff, vitric-crystal, coarse, well-bedded, laminated; largely white to gray with tan to brown interbeds; lithic fragments up to 15 percent in some beds; 10.0 ft thick

I-6
Tuff, crystal, fine to coarse, tannish-gray to tan, well-bedded; light gray at base; grades 2.5 ft above base to structureless, coarse to lapilli; 13.7 ft thick

I-5
Tuff, vitric-crystal, coarse, white, structureless in lower 2 ft grading to brown indistinctly bedded with inclusions of white tuff similar to base; 8.0 ft thick

TERTIARY

I-4
Tuff, vitric, coarse, white, grading to brownish-gray with white pumice in upper 3 ft; quartz, feldspar, and biotite crystals up to 5 percent; 9.0 ft thick

I-3
Tuff, vitric-crystal, coarse, white, friable to moderately hard, structureless; grades to light brownish gray at 2.5 ft above base; well-bedded light-gray lapilli pumice and lithic bed 0.7 ft thick near top; 8.1 ft thick

I-2
Tuff, crystal, coarse, friable, light-gray, well-bedded in lower foot; grades to light brownish gray, structureless above; coarse to lapilli at top; upper part contains rounded inclusions similar to base; 7.0 ft thick

I-1
Tuff, vitric, fine to coarse, tan, structureless; fine lithics and coarse to lapilli pumice; minimum thickness 5.0 ft; base not exposed

Contact, showing direction of dip
Dashed where inferred

Fault, showing direction of dip
Dashed where approximately located

25
Strike and dip of beds

73
Strike and dip of joints

Strike of vertical joint

Sample K35-1
Sample location

6+00
Survey station

LOS, line of sight
WP, working point
PI, point of intersection

FIGURE 3.- GEOLOGIC MAP AND CROSS SECTION OF THE U12i AND U12i-01 TUNNELS, NEVADA TEST SITE