EXPLANATION

Recent

Qal — Alluvium

Pleistocene (QUATERNARY)

Qln — Lake Lahontan deposits
Sand with some gravel and silt.

Qg — Older alluvium
Coarse gravel.

Qmp, Qmpc — McClellan Peak Basalt
Qmp Olivine basalt lava flows.
Qmpc Olivine basalt cinders.

Qm — Mustang Andesite
Hornblende-pyroxene trachyandesite.

Ql, Qli, Qlg — Lousetown Formation
Ql Basalt, andesite, and trachyandesite flows.
Qli Intrusive rocks, similar in composition to flow rocks.
Qlg Basal gravel, locally mapped.

Pliocene (TERTIARY)

Tn — Knickerbocker Andesite
Intrusive pyroxene andesite.

Tcv — Coal Valley Formation
Tuffaceous sandstone, siltstone, diatomaceous shale, and rhyolitic tuff.

Tk, Tka, Tki, Tkr — Kate Peak Formation
Tk Gray to brown porphyritic dacitic and rhyodacitic flows and breccias, local pyroxene andesites. Interbedded rhyolitic tuff, diatomite, and sandstone in southwestern part of mapped area.
Tka Altered variety. Rocks have been argillized, silicified, and propylitized.
Tki Intrusive porphyritic dacites and rhyodacites. Includes alunitized rhyodacitic intrusive rocks.
Tkr Intrusive felsitic rhyolites.

Td, Tda, Tdv — Desert Peak Formation
Td Tuffaceous sandstone, diatomite, diatomaceous shale, basaltic tuffs, rare rhyolite tuffs and basaltic flows. Sandstones locally silicified.
Tda Black pyroxene andesite flow.
Tdv Rhyodacite, dacite, and andesite flows much like rocks of Kate Peak Formation. Minor interbeds of tuff and sandstone.

Miocene

Tc, Tct, Tci — Chloropagus Formation
Tc Black and dark gray basaltic and andesitic lavas, commonly amygdaloidal. Siliceous amygdules often with celadonite, some zerolites.
Tct Pumiceous rhyolite tuffs often with diatomite or sandstone; locally mapped.
Tci Basaltic and andesitic intrusives.

To — Old Gregory Formation
White to pale green rhyolitic tuffs, tuff breccia, and brown pocelanitic shale. Greenish siltstone and altered basalt locally present.

Ta, Tai — Alta Formation
Ta Dark gray to greenish hornblende and pyroxene andesite, and black, coarsely porphyritic trachybasalt flows. Andesites locally porphyritic or zeolitic. Rare sandstone, shale, and tuff interbeds.
Tai Intrusive rocks, mostly andesitic.

Th — Hartford Hill Rhyolite
Varicolored (pink, brownish, green, dark red) devitrified crystal-rich ash flow tuffs. Slightly to strongly welded.

Oligocene

Ts — Pre-Hartford Hill sedimentary rocks
Olive-green claystone with thin sandstone interbeds, local conglomerate.

CRETACEOUS (?)

K?g — Granitic rocks
Mostly hornblende-biotite granodiorite.

JURASSIC

Jd — Dioritic rocks
Light to dark gray amphibole diorite and dark gray microdiorite.

Jmv — Metavolcanic rocks
Dark green to black meta-andesite and metabasalt. Locally hornblende hornfels.

Jms — Metasedimentary rocks
Dark gray slate with thin interbeds of metasandstone and dolomitic limestone. Locally is pelitic and contains calc-silicate hornfelses.

Depositional and intrusive contacts
Solid where well located, dashed where approximate, dashed and questioned where conjectural.

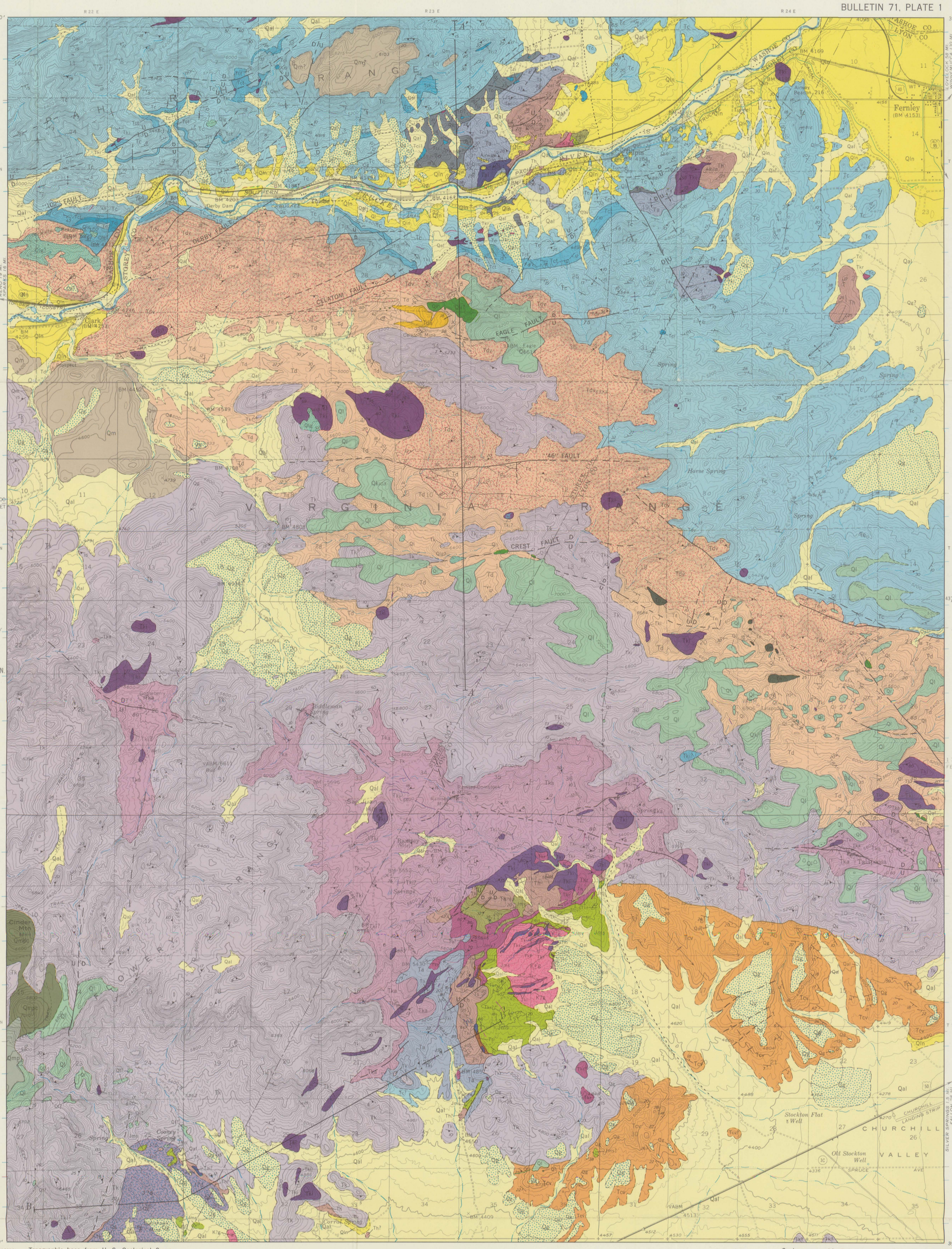
Faults
Dashed where approximately located, questioned where conjectural or doubtful, dotted where concealed.

Anticlinal axis
Dashed where approximate.

Synclinal axis
Dashed where approximate.

Strike and dip symbols of planar elements

	Bedding	Igneous flow banding
Inclined	50	45
Vertical		
Horizontal		



Topographic base from U. S. Geological Survey Wadsworth and Churchill Butte 15′ quadrangles, 1957.

Geology mapped by Robert L. Rose, 1958-1966.

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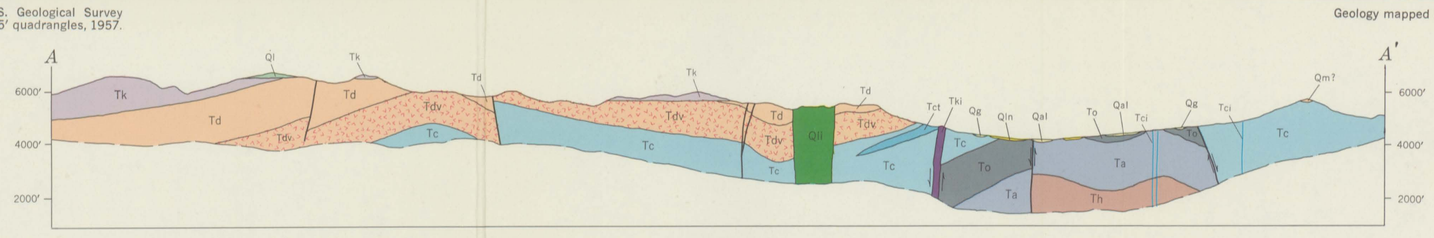
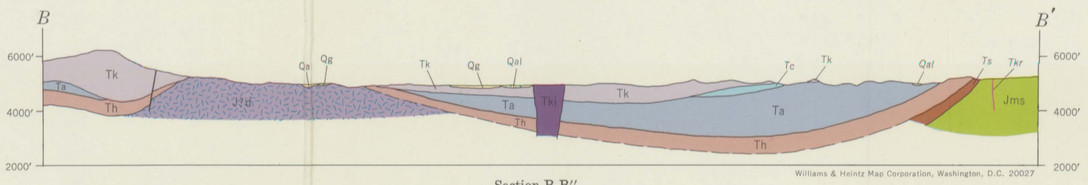


Section A-A′



Section B-B″

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GEOLOGIC MAP AND SECTIONS OF PARTS OF THE WADSWORTH AND CHURCHILL BUTTE QUADRANGLES, NEVADA

By Robert L. Rose

Scale 1:48000

1 ½ 0 1 2 3 Miles

Contour interval 40 feet
Dashed lines represent half interval contours
Datum is mean sea level

1969