



EXPLANATION

- ▲ Mafic lavas in Timber Mountain caldera (Luft, 1964)
- △ Post-Timber Mountain felsic lavas and tuffs
- Timber Mountain Tuff and related rocks of Timber Mountain caldera
- Paintbrush Tuff and related rocks of Claim Canyon cauldron
- Biotite-hornblende lava and tuffs and rhyolite lavas of Area 20 related to Silent Canyon caldera
- Rocks related to Sleeping Butte caldera
- × Fraction Tuff
- + Lavas of intermediate composition of northern Nellis Air Force Bombing and Gunnery Range (Ekren and others, 1971)

Figure 4.--Synoptic silica variation diagrams of lime, total alkalis, and total iron oxides in igneous rocks from the Timber Mountain-Oasis Valley caldera complex and from older calc-alkalic rocks. Alkali-lime index (Peacock, 1931) for younger, alkali-calcic rocks of complex (solid curves) is 55.7, but is 59.7 for older calc-alkalic Fraction Tuff and lavas of intermediate compositions of northern Nellis Air Force Bombing and Gunnery Range (heavy dashed curves; Anderson and Ekren, 1968). Solid curves are controlled by oxide plots of Paintbrush Tuff and younger rocks of Timber Mountain-Oasis Valley caldera complex. Plus signs enclosed by parentheses represent altered intermediate lava and are ignored in fitting heavy dashed curves. Light dashed curves are controlled by oxide plots of rocks related to Silent Canyon caldera; queried long dashed curves are controlled by oxide plots of four unaltered rocks of Sleeping Butte caldera.