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-alkaline 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-alkaline 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.