characteristically broken and corroded phenocrysts (quartz appears black). The thin-section scale (1 in. by 2 in.) is not adequate to describe the rock quantitatively. Two sections of the same rock were point-counted and the data listed in table 32, with noticeable differences in phenocryst ratio. Mount Scott Granite normally contains primary hornblende, although some specimens show late or secondary biotite. A typical late diabase plug cuts granite about ⅓ mi to the south. A rhyolite dike, similar to the one on State Highway 49 by Medicine Creek, cuts granite north of the road.

The largest boulder streams in the Wichitas are developed on Mount Scott (fig. 128). These probably developed in Permian time and do not appear to be recent. Prominent fractures cut the mountain in an unexplained pattern. A combination of this pattern and apparent subtle rock differences yields a surface topography of quite varied character.

The cross sections (fig. 127) drawn to accompany the map show no faults. Although zones of intense brecciation are common, discernible offsets along regional lineaments have not been identified in the igneous terranes. Until more control is available, it seems better to leave this possibility open.

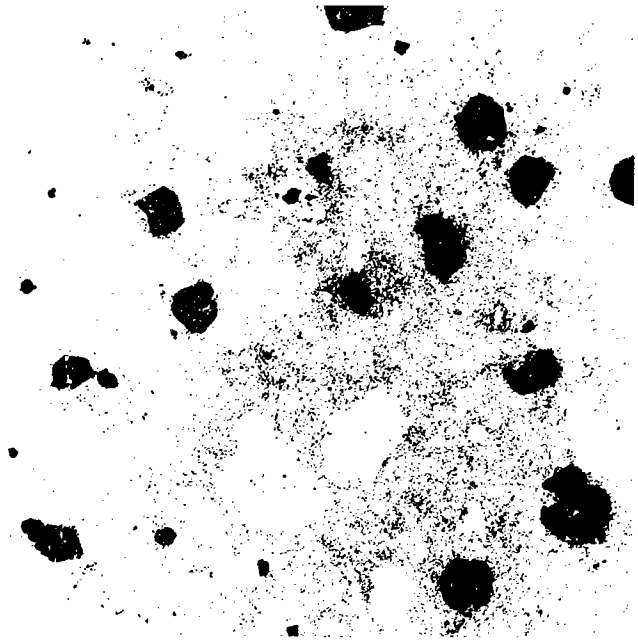

Figure 129. Photograph of thin section of Carlton Rhyolite from sample W–940. Width of section is about 1 in. Phenocrysts of quartz are dark, and those of alkali feldspar are light.

TABLE 32.—MODAL ANALYSES OF ROCKS FROM MOUNT SCOTT CAMPGROUND AREA (STOP 4)

	Meers (Gray type - Davidson) Schoonover 14-3N-13W	Carlton Rhyolite W939 NE SW NW SW 14-3N-13W	Carlton Rhyolite W940 NE NW SW SW NW 14-3N-13W	Mt. Scott Schoonover 14-3N-13W	Mt. Scott W7269A	Late Diabase W7269B SW NE NE NE SW 14-3N-13W
Qtz-P		4.25	7.5 4		1.75	
Alk-F-P		4.75	6 10.75		18.75	
Qtz-G	55	} 87.25	} 83 } 80.75	29.8	31.5	
Alk-F-G				} 64.8	43.25	
Plag (Free)					.5	33.75
Hornbl				3.8	.25	25 (px)
Biotite					.25	19
Opaques	7	2.25	2.75 2.5	1.5	1.5	13
Apatite				tr		tr
Sphene	tr			.05	tr	1.75
Zircon	tr			tr	tr	
Fluorite	1	.5	tr .25	tr	.25	
Alteration		tr	tr		tr	2.25
Hematite				tr		
Chlorite/Mica	36	.75	.75 1.5		2	5
Epidote		.25	tr .25		tr	