

pitches to a spectacular snow bench. One more pitch up and right got us to the top, which we reached in the early afternoon. The climbing although not difficult was a little precarious due to snow and ice balconies which periodically swept the route. The major problem was to keep from being hit by the tombstone locomotives.

MICHAEL COVINGTON

*Notchtop.* In late April Doug Snively and I completed a new route up the steep snow-plastered north face of Notch Top. The climb began from a bivouac situated above the Grace Falls where we followed a snow and rock ramp which led up and right to the base of a large snowfield. In low-angle snow we skirted the first rock band on the right and climbed up steepening slopes to the second rock band. The first pitch led up and left to a belay above the notch on the main wall just across from a prominent spire. From here we diagonaled up and left for 7 pitches on 45° and 50° snow to finish in a col between the Notch Top ridge and Continental Divide. The crux was a long unprotected snow pitch which averaged 50°. Eight hours.

MICHAEL COVINGTON

*Ptarmigan Towers, East Side. Tower 2:* To the right of the bottom of the 2-4 gully is a deep, wet chimney/gully. On the vertical wall to its right is a prominent and attractive jam-crack, which diagonals up and left for about 300 feet before joining the more broken rock of the "Sunshine Ledges" route. Tom Gries and I climbed the jam-crack (the "Tundra Turkey Crack") in August, encountering three leads of good climbing and even difficulty. NCCS II, F8. *Tower 4:* Just below and right of the top of Tower 4, as seen from Lake Nanita, are two deep, overhanging 200-foot chimneys. We established a route that followed the indistinct northeast corner of this tower, mostly in clean dihedrals a bit to its left, and finishing in the rightmost of the two aforementioned chimneys. The rock was generally good until the crux summit pitch, which involved a very wide, overhanging chimney of crumbling granite. NCCS III, F8 or F9. Both routes were climbed hammerless.

LAWRENCE HAMILTON, *Unaffiliated*

*Arrowhead Peak, South Face.* Two new routes were established on this appealing face in July. "Artemis" ascends the large, prominent dihedral about 100 feet to the right of the low point of the McHenrys-Arrowhead Ridge. Moderate slabs lead to a ledge at the base of the main corner, which is followed for two leads, past several overhangs, to the top. Tom Gries and I did the first ascent. NCCS II, F9. To the east of this lies "Warhead", which climbs the face near its highest part. John Byrd, Tom Gries, and I began this route from a huge flake lying