

range. A 400406-40 deductions made over as follows: There
is recognizable ^{few of the} 3 erosional platforms above the glacial
deposits at the mouth of Alpine Canyon. The upper erosional
remnant is well exposed upon the south side of the granite range
and is extendable to the west and up into the Alpine Canyon
proper. This height carries throughout the valley. When one
is on the mountain north of Boulder he arrives at a point where
this level is tied in with all the rest of the levels at this same
height. All the high peaks of the traverse ranges and the erosional
mountains to the southwest show a common level. This level is the
highest one on our mountains above which the ranges take on
a more old age appearance. Below this upper level is found
a more regular and definite erosional levels. These levels are
best shown just north & west of Alpine Canyon, dipping to the
south as they radiate from the canyon. While these are not
level they do, however, indicate a stage in the upcanyon or
backward erosion of the ^{Alpine} canyon. This condition is duplicated at the
mouths of other ^{large} canyons where the erosional terraces diverge high
and then slope down the valley front exposures. These come down
in regular order. Noted two very conspicuous terminal moraines
of the glacier that issued from Alpine Canyon. These are found
at very mouth. Others may show regularity and a cyclic signif-
icance. This area is in need of a critical study of both the
erosional levels and the glacial deposits. One interesting and
recent fault runs from the north of Boulder to mouth of Alpine
trending to the west as it approaches the canyon proper. This fault
is concerned with the alluvium and the surfaces are still free of
vegetation in the main. Such a fault appears to have been
initiated by subsiding of alluvial accumulations. Creek channels
are deeply entrenched in these deposits beyond the mountain range.
Leaving these area for more critical study retired at our camp here
in the oaks.

4/7/40

next morning at some station as above. While getting breakfast
recorded the numerous songs of the Spurred Towhee, Woodhouse
jay (3 birds). The robin, magpie, junco were also present and call-
ing. Examined a magpie nest in creek bottom of river thorn,
birch, willow. Its construction was frail but inner cup of mud
completed. As time goes on other material will be added to bring
it up to normal shape. Ground littered with sticks. One bird at
nest, other near and as I approached the guard warned nesting
bird by flying directly over nest a giving a sharp call.