

RECONNAISANCE MAP SHOWING RELATIVE AMOUNTS OF SOIL AND BEDROCK IN THE MOUNTAINOUS PART OF THE KASSLER QUADRANGLE, JEFFERSON AND DOUGLAS COUNTIES, COLORADO

slopes or where pervious fill can be added

septic systems with leach fields

coniferous forest. Rubbly surfaces covered by shrubs and

sparse grass are common on south-facing slopes and along the

mountain front, whereas very dense coniferous forests that

often mask the soil and bedrock surface are common on north-

facing slopes. Large boulders or bedrock outcrops are

scattered trees and shrubs growing in cracks between rocks and

on pockets of soil. Slopes between outcrops are commonly

generally extensive, locally with large knobs or pinnacles

mantled by rock fragments

Moderate to steep slopes covered with a dense to scattered MANY CONSTRAINTS--Many geologic constraints because of the large DIFFICULT--Hard bedrock or large boulders common at or near the

amount of hard bedrock at or near the ground surface and

because slopes are mostly moderate to steep. With proper site

evaluation, this area can accommodate only a limited density of

Mostly rock outcrops on ridge crests and cliffs, covered with MOST CONSTRAINTS--Most geologic constraints because hard bedrock VERY DIFFICULT--Hard bedrock and rock fragments are nearly

or coarse rock rubble is common at or near the ground surface

and because slopes are mostly steep. Septic systems with leach

fields should be restricted to those few areas where acceptable

amounts of unconsolidated material can be located on suitable

about 10-30 percent of the area. Areas underlain by Pikes Peak

From 10-50 percent of area is covered by dirt and weathered

bedrock to depths of 6 ft (1.8 m). Where soil is 6 ft (1.8 m)

deep, the dirt at the surface is commonly about 1 ft (0.3 m)

thick but may be as much as 4 ft (1.2 m) thick. Much of this

dirt has moved downslope and concentrated in pockets. This

dirt generally overlies a few feet of partly weathered bedrock.

The areas with soil as thick as 6 ft (1.8 m) commonly occur in

pockets between rock outcrops or locally as thick colluvium along drainages at the base of steep slopes. Hard bedrock or large boulders occur at or very near the ground surface in more

Less than 10 percent of area is covered by dirt and partly |

weathered bedrock to a depth of 6 ft (1.8 m). Soil, where

present, fills small pockets where dirt and rock rubble have

been concentrated by downslope movement. More than 50 percent

of the area is hard bedrock outcrops; much of the remainder

consists of rock fragments underlain by hard bedrock at shallow

Granite often include large boulders

than 30 percent of the area

RS

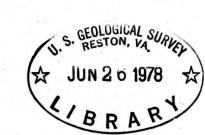
Rock with

subordinate

MR

Mostly rock

Paul W. Schmidt



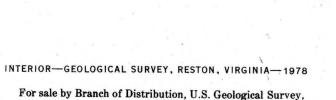
surface, which makes most shallow excavations difficult. Many

hard bedrock or large boulder areas may be avoided if local

continuous at or near the surface, which makes most shallow

excavations very difficult

conditions are carefully studied and development is limited



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MAP MF-787

KASSLER QUAD., CO.

30 MILES

- MOUNTAIN