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The accompanying map outlines the approximate boundary of the smoky qtz feldspar dike in this area of zone 3, based on mapping. The dike is composed of plagioclase, potassium feldspar and smoky quartz occurring as phenocrysts in a buff colored fine grained groundmass. There is evidence of faulting in this area however the degree of faulting cannot be determined at present because this type of dike is known to include all the lithologies in outcrop surrounding it, 3D breccia cap, 104 breccia, and 3A, which can all occur within 300' of the lower boundary of the breccia cap. Therefore in this model faulting is assumed to ~~be~~ have minimal effect.

Jointing on bench 4110 is moderately developed along 103/85N, 140/56N, and 15/74W producing fairly large blocks ($> 1 \text{ ft}^3$). Toward the slide area the jointing surface becomes curved.

On bench 4070 the jointing is poorly developed and the dike appears to be fractured into small blocks ($< 1 \text{ ft}^3$).

There are 2 occurrences of alteration observed along the outer surface of the dike. It is poorly consolidated and composed of plagioclase, potassium feldspar and smoky quartz phenocrysts in a light green (possibly chloritic) fine-grained groundmass, and is generally less than 5 ft. thick. The slide on 4110 occurred along the alteration - dike contact and initial stages of sliding can be observed on 4070 along the same contact.

The steep angle of the alteration — dike contact and the loose unconsolidated form of the alteration are the probable causes of sliding.

There is no evidence of alteration associated with other dike outcrops in the area. Possibly it has been previously removed or covered by slumping. The extent of the alteration below 4070 is unknown laterally and at depth.

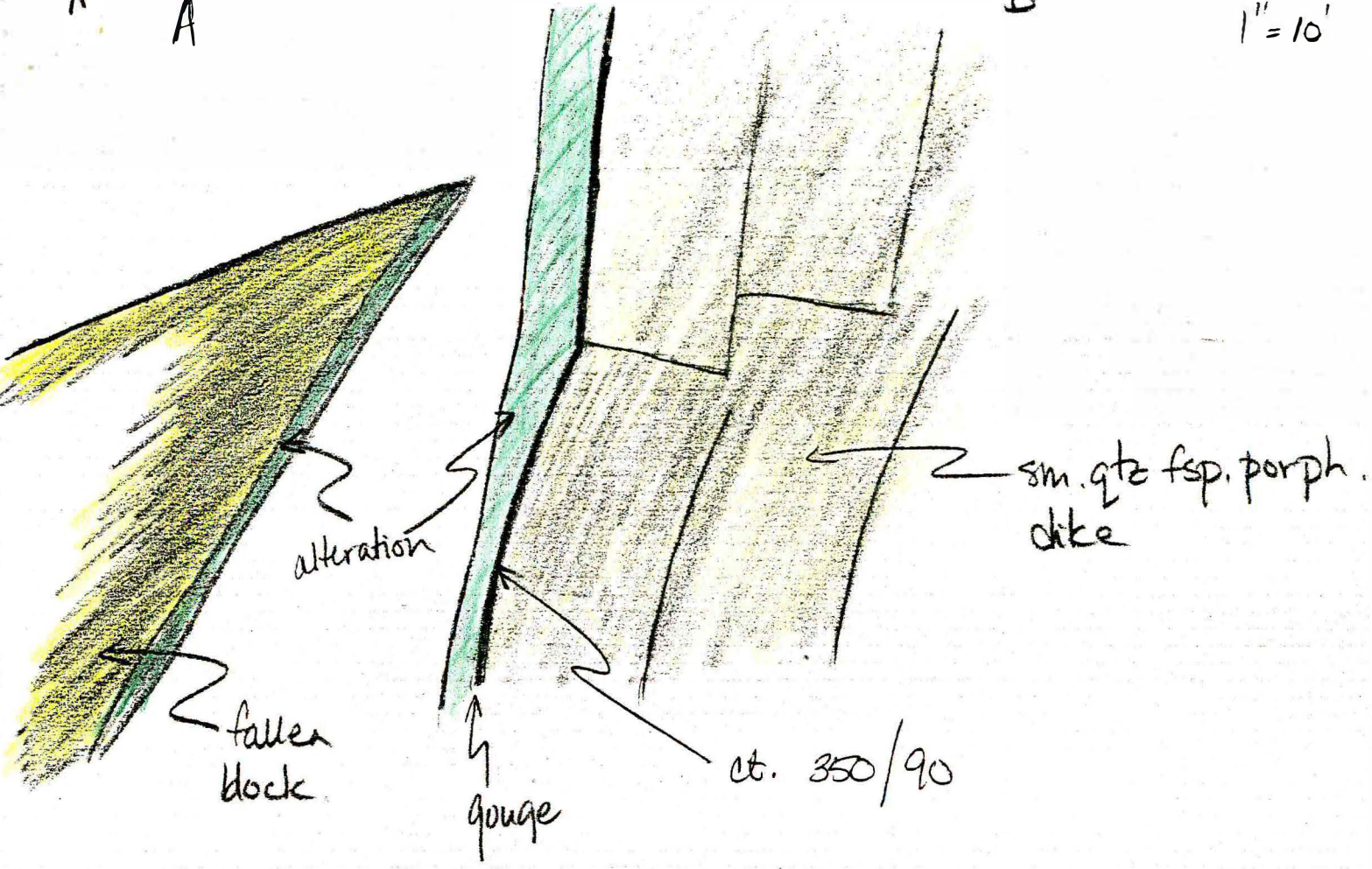
Due to the irregular shape of dikes, the dike boundary may vary considerably at depth from what is interpreted here (although the southern end is bounded by the North Fork Fault).

A

A

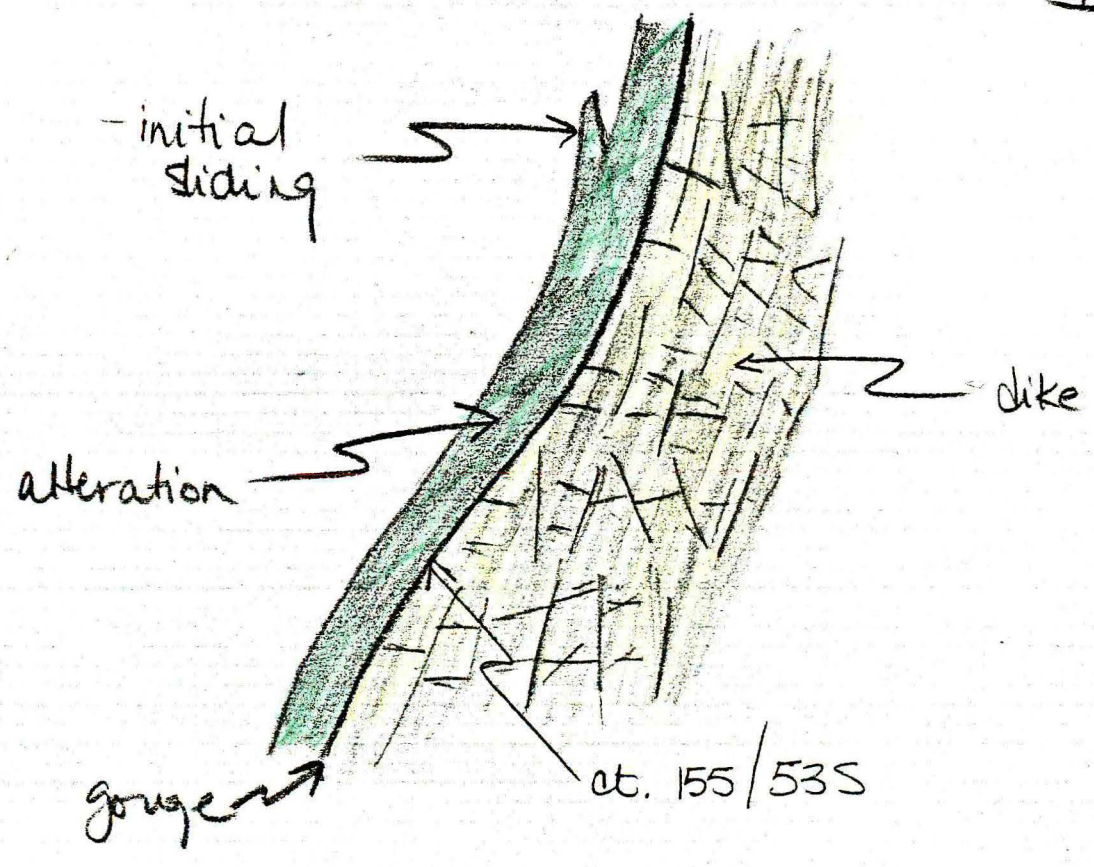
B

1" = 10'



C

D



ct. 155/53S