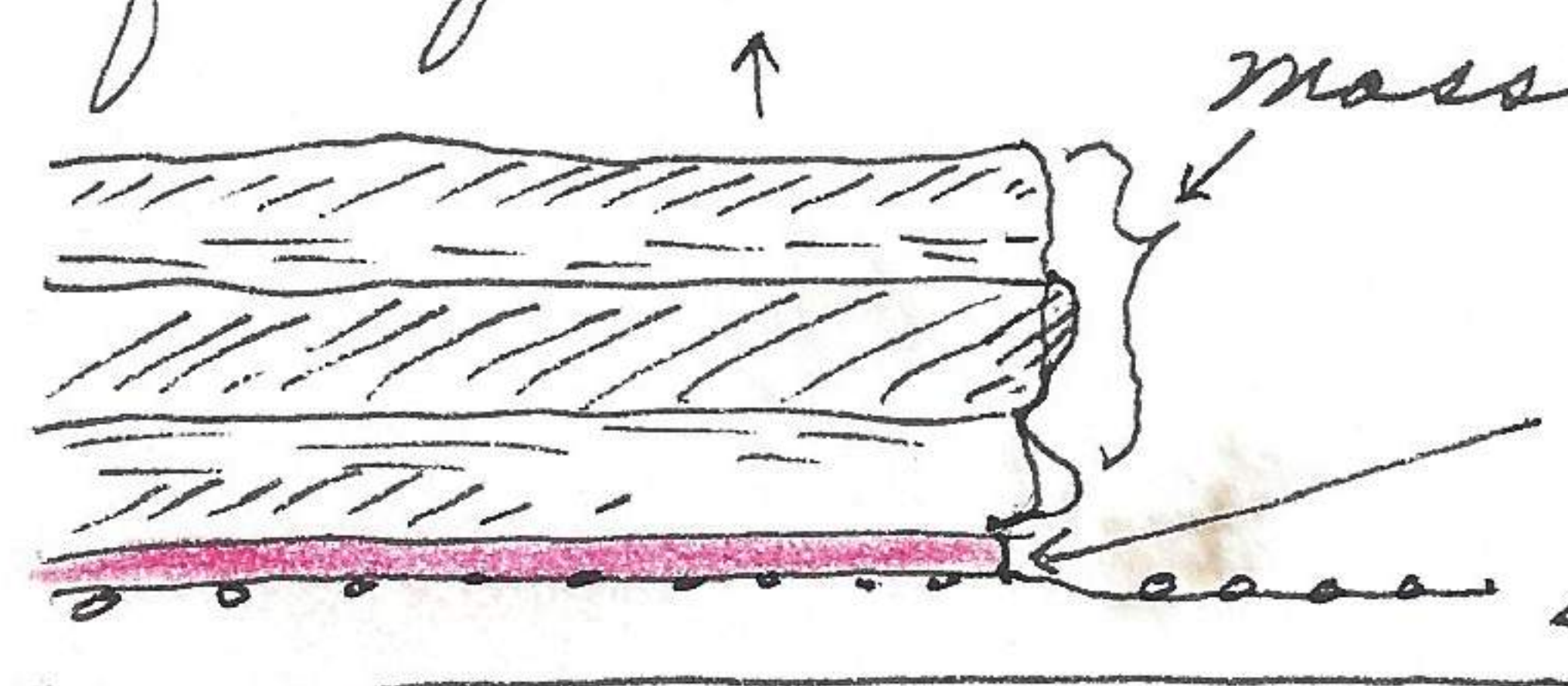


690813-17 Conglomerate in quartzite. These conglomerates are of various kinds of quartzite and phenocrysts, a representative series of which were collected. These conglomerates were more frequently in aggregates rather than generally distributed. Some were eroded by glaciers and were still at the same level as the matrix, showing very little evidence of differential erosion. Others, however, were protruding above matrix by $\frac{3}{4}$ of their diameter but still securely attached to matrix. They appeared as if loose enough to pluck but even a solid blow with the geology pick would not dislodge them, and if so, would fracture three phenocrysts rather than dislodge them in their entirety. Even though these conglomerates were in great profusion in place, there were none or only rarely an example, ^{loose} on the ground adjacent to the one in situ. I would judge the average size to be 35 mm in diameter, the largest measured ^{was} 95 mm in greatest diameter and this one linear in shape .

These conglomerates were in several layers of rock and were exposed on a bench showing less resistance to erosion than beds above or below. The strata dipped gently to N and to E. On several exposures there was a brown layer directly below the conglomerate which could be either a definite layer or a stain layer which penetrated to the stratigraphical layer. Sometimes this brown layer was perpendicular to bedding and frequently associated with a fracture system, indicating that this brown zone was produced by migration from surface or fracture, and compared to migration of proteins in electrophoresis. Observed one contact of conglomerate with massive quartzite above.

 massive crossbedding (conformable with conglomerate)
soft slate or shale and receded to 3' or more ft.
layer of conglomerate

The shale, ~~was~~ friable and easily dislodged, creating a deep overhang of massive crossbedding above. Overlying beds frequently showed folding and some local faulting. Some exposures showed pitting only as if raindrops but indicated

