To the west from here looking across the Fremont one can see a large bench which takes up most of the valley at Fruita. It is the same level as our position and is seen to carry up into Fremont Canyon and up Sulphur Creek. On the very edge of this bench is preserved the first cycle of erosion and on its flow is preserved the original creek bed (?). In general one can expect to find black igneous boulder in canyons below the level of this bench line but nothing above. This same bench line carried down the Fremont river through the reef and is modified & irregular but still preserved upon the canyon walls. The boulder accumulations are all superficial and are deposited upon foundation material being Moenkopie under point just south of Ingelsbys home at the junction. This explanation is in contradiction to the theory that the boulder fields are merely residual matter from a igneous flow that at one time covered the above platiau that has since eroded away. These rocks were supposed to have percolated down through as the less resistent layers of the Cretaceous, Eocene, and Jurassic were eroded away. It appears to me however that the common source of these rock are from the present aquarius and are absolutely foreign to this point at Fruita.

4:35 At the most N. Easterly point of bench with perpendicular Wingate to east and the fremont river hundreds of feet directly below. One can not descend into canyon from this point. Nice view of valley below to the west. Gnats still very annoying. Will now work along base of cliff to the south with the purpose of finding favorable Depodomy habitats on sand dunes situated on this elevated level at base of cliffs.

4:36 Utta

4:37 Utta, Utta.

4:40 On this bench the Juniper and Pinyon trees are distributed on a 50% basis that is 1/2 of the tree growth is of Juniper while the other half is of pinyon. In examing the cones of the pinyon found the nuts were just developing and the the shell of the seed could not be detected.

4:40 Eutamias ran up wash at base of cliffs and did not pause. The water that falls from the face of these Wingate cliffs forms a gulch at the base which carries the water along a parallel course to edge of bench boarding the Fremont river. Cottontail tracks seen in sand, no other evidence. Mr. Chestnut of Fruita told me that frequently several men would drive this bench from the south to the north where ~~they~~ the jacks became ledge and shot. Did not see any evidence of the jacks upon this bench.