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shown by the engineering as well as enue only," have been at the ruins, digarchitictural skill manifested in its -erection. It is so arranged that every point on the face commands a direct point on the face commands a direct view of the one avenue of approach. Furthermore, the front wall is relieved by round and square towers, provided with portholes, in addition to the open windows. Then a tower, erected on the north side of the gorge, about a hun-dred yards from the large building, commands a view of a portion of the main canyon, and is provided with portholes, doubtless to enable the watchers to warn the inhabitants of the main building, of the approach of a foe. The mason work is very skillful. In erectness of wall, squareness of cor-ners, regularity of outlines, and smoothness of pointing, the work com-pares favorably with our modern stone

pares favorably with our modern stone masonry. This skill is most apparent in the circular architecture. The circles are perfectly regular, and in some instances squares are so inserted in the circles as to show some ac-quaintance with geometrical principles. In passing, the remarkable fact may be mentioned that the walls of nearly all the circular apartments are blackall the circular apartments are black-ened with smoke, while in one of them is what appears to be an altar, with a basin below it, as if to catch the blood of the sacrificial victim. It is impossible to tell how many rooms or stories there were in the building originally. This is due to the fact that the upper portion of the house thas fallen down, and the tons of debris

fact that the upper portion of the house has fallen down, and the tons of debris have not only formed a huge land-blide into the gorge, but have done much toward filling up the lower part of the building. Even in the present dilapidated condition of the ruin, 112 rooms have been discovered and ex-plored, and it does not require a stretch of the imagination to believe that the edifice must have consisted plored, and it does not require a stretch of the imagination to believe that the edifice must have consisted originally of fully 600 rooms. Every available cubic foot under the great arch has been utilized in the building. The crumbling of the main walls has left exposed a few pleces of rude imasonry, high up in the back roof of the cave; and in the small rooms thus formed, buzzards and other scaveng-ing birds of prey find a refuge. These places can be reached only by means of long ladders. The stone walls were braced and strengthened with cedar poles, willow withes, and cedar bark. The poles have been cut off with rude stone axes, and may have served as joists between the different stories. There is no sawn timber in the building, so far as ex-plored. Windows and portholes look out of the front wall down the canyon,

timber in the building, so far as ex-plored. Windows and portholes look out of the front wall down the canyon, but all the entrances must have been situated near the bottom of the wall and they were all, doubtless, very small. Lintels are formed of long blocks of stone. No doubt ladders were used to ascend and descend from one story to another, as there are no signs of permanent stairs.

Some of the rooms were plastered in-side with a kind of terra cotta, and portions of this smooth surface have been painted in red, yellow, or black. The most characteristic painting repre-sents, quite skillfully, three pyramids on a level plain, very closely resem-bling our pletures of the pyramids of Egypt. Just above this is a perfect rectangle, traversed with zigzag lines. It is impossible at present to tell what the latter figure represents. Both of Some of the rooms were plastered in the latter figure represents. Both of these paintings are in bright red.

Apparently the dead were buried in a trge chamber in the extreme rear of large large chamber in the extreme rear of the building. Here have been found the perfectly dried and preserved mumnies of persons of both sexes, one woman having red hair. Large pleces of pot-tery, skilfully moulded and burned, stone axes and grinding mills, and other rude utensils, have also been found. Unfortunately, relic hunters "for rev-

ging for mummles and pottery and de-stroying more of the walls in a few years than the elements would have deyears than the elements would have de-stroyed in as many centuries. Nor has any study been made of the relative po-sitions of the relics found, in order to discover the historical lesson such re-lationships would teach. The position occupied by this struc-ture, is apparently impregnable to any force no matter how leaves. This is due

force, no matter how large. This is due to the fact that no more than one man can approach the building at a time, and can approach the building at a time, and he only by dint of climbing with both hands and both feet. Approaching in such a way, a whole army could be vanquished by a few men. From this fact it will be seen how great was the labor required to collect the large mass of building material used in the conlabor required to collect the large mass of building material used in the con-structoin of the "palace." I could see no sandstone of the kind in the im-mediate vicinity, although it is possi-ble that it was found in the bottom of the gorge. But nearly all the rock in the vicinity is partly igneous, having here is such bet or to relt the element been in such heat as to melt the almost pure iron out of. If all the rock was carried up that difficult trail, and there hewn into shape and laid in mud, the water for which was doubtless carried long distance, the task must have een herculean. To judge of its magbeen herculean. nitude, one needs only to think of a building 350 feet long, 100 feet wide, and 300 feet high, divided by stone partitions into rooms, some of them scarcely eight feet square. Even the broken debris almost forms a mountain of liself.

almost forms a mountain of ltself. Research in this ruin has not been thorough or systematic. I am quite sure that if systematic excavating were carried on under the direction of a com-petent leader, much would be found in the way of mummies, pottery, various-ly shaped rooms, and, possibly, records, which would be of vast interest to the archeologist. Another advantage would be found in the keeping of the outer and partition walls, and the rooms. enpartition walls, and the rooms, en-trances, windows, etc., in as nearly as possible their present state of preservation.

AH the other cliff dwellings in the canyon sink into insignificance when compared with this. While they are more difficult of access, they are much smaller and less characteristic. But one fact is remarkable in the case of all of them; that the rock of which they are built is different in color and appar-ently in composition, from any in the immediate vicinity. For this reason immediate vicinity. For this reason they can be readily distinguished at a distance of from half to three-fourths of a mile. The carrying of the rock so great a distance can doubtless be ac-counted for by the difficulty of quar-rying into the vast clifts of aqueous and igneus rock of which the moun-tains are composed tains are composed.

This paper would apear incomplete without a statement of atheory to ac-count for these gigantic buildings in such inaccessible places. In the first In the first place, one point appears perfectly clear, that those who occupied the buildings must have been at deadly feud with some other party. Surely men could have no other reason for living in such a barren, desolate region. The inacces-sible, impregnable nature of their bullsible, impregnable nature of their bull-dings and fortifications would also point to the fact that enmity with their fellow men was, no doubt, their impell-ing motive in seeking such a habita-tion. It sems unlikely that any set-tled class of people, following any line of productive employment, would seek such a place even when fleating from of productive employment, would seek such a place, even when fleeing from a deadly foe. Therefore, the idea that they were one faction of the aborgines

Idea that the ruins were in a place eas lly accessible and in one of the natural highways of the country. In that case it would be the probable natural stophighways of the country. In that case it would be the probable natural stop-plng place, temporarily, of one people ileeing from another. But it is incon-ceivable that under such conditions men would establish themselves in a place from which egress would be so difficult in case flight should become necessary. But a view of the region, and a contemplation of the nature of the buildings, led me to the opinion that the place was inhabited by a band of outaws, who may have lived there for generations, and preyed on the in-habitants of the fertile valleys around. It would be practically impossible, as desperate men to effect their capture in such a stronghold. Of course, it might be possible for a state of slege to be maintained, but outlaws, thor-oughly familiar with the country they occupy, are generally fertile of re-source, as witness our own enterpris-ing friends who occupied the "robber's roost." It would be a comparatively peasy matter for them to make occup rost." It would be a comparatively easy matter for them to make occa-sional sallies into the regions around, sional sallies into the regions around, and supply themselves in a few hours with enough to support them for weeks. In the winter, the snow would furnish them an abundance of water, and no doubt in the spring and autumn the torrent bed was full of water. Clisterns within the walls of their buildings could be provided and filled with water to tide over the period of scarcity.

Furthermore, robbers are always fearful of attack. That this was the case with the inhabitants of the "cliff palace," is apparent from the above description of their many means of alarm and defense. And when we take into account the further fact that it is natural for outlaws, and not for law-abiding people, to occupy the most barren, inaccessible and forbidding regions, we have strong arguments in support of the theory herein advanced support of the theory herein advanced.

How old the buildings are, cannot even be conjectured. That they were erected when the inhabitants of the country were in a state of comparative erected when the inhabitants of the country were in a state of comparative civilization, is apparent from the skill shown in construction. We need not hesitate in pronouncing them old, not-withstanding their comparative stated, they are measurably safe from the ele-ments. They have been, no doubt, safe from man's vandalism, a.so, for not-withstanding the fact that white peo-ple have lived in that region for some twenty years, and the Indians for a much longer period, the ruin was dis-covered, entirely by accident, only seven or eight years ago. Whether the buildings belong to a period as far back as the Nephltes, it is difficult to say, although the theory has been ad-vanced that these canyons were for-merly the stronghold of the Gadianton Robbers.

But, whatever the true theory as to the ruins, they are still there to attract the abtention and arouse the wonder of the visitor. They will fully repay one for all the trouble and expense incident to a visit.

Our little cistern of water was very convenient on our return, and we were able to reach our horses at 6 p.m., in a fair condition. After a three-mite a fair condition. After a unree-mile ride up Mancos canyon, we camped for the night. To complete our happiness, a rainstorm occurred during the night, completely drenching us. But it had a rainstorm occurred during the night, completely drenching us. But it had its compensation in the fact that it furnished plenty of water for us, which we found collected in hollows on the tops of rocks, on our way up the canyon. We reached Mancos at 11 a.m. Tuesday, thirty-six hours from the time of leaving. WILLARD DONE.