

in the cliff caves of Colorado, Utah and Arizona. But when these houses had been completely cleared away and excavation made, at a depth of from three to five feet beneath the floors of the aforesaid stone houses, four mummies and other relics were found. These mummies consist of the dried



A Sandal of Yucca Fibre from Cave No. 1.

bodies of one large man about six feet in height, a woman of good size, and two young persons, the smaller of whom appears to have been about thirteen or fourteen years old at the time of death. They are all remarkably well preserved, and their heads are provided with coarse, black hair, particularly abundant on the man and the boy. Small portions of garments are present in the form of a robe made of yucca cloth and furs; and there are woven, well-made, yucca sandals upon the feet. The boy's feet, however, are furnished above with loose buckskin coverings, but have no sandals or soles of any kind. Two pairs of unworn sandals of superior workmanship, together with some bunches of yucca, or soapwort tow or fibre, of which the sandals were made, were found carefully wrapped in a tanned skin beside the body of the woman. A number of rude, stone arrow-points, with short, wooden (probably willow) handles tied to them by animal sinew; also one wooden pipe and several bone awls and skewers were found with the body of the man. The pipe is about an inch and one-eighth in diameter and two and one-half inches in length, including the stem. The latter consists of a short piece of bone, probably a part of the hollow ulna of a wing of a large bird. It is fastened into the bowl of the pipe by means of some sort of black cement or fire-proof material, which is also used to form a thick lining for the bowl. Large and small gourds were also with these four mummies. One of the gourds has a handle of yucca cord stretched across its circular mouth opening, thus forming a convenient vessel, which was found full of corn in good condition. Besides, there was a wooden implement over forty-six inches long, consisting of handle and blade or flat portion, as shown in the accompanying figure. This is made of very hard wood, and it was probably used as a flail for beating out the yucca or soap-

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BOY MUMMY AND RELICS FROM CAVE NO. 1.

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