

far reaching the effects of the drought were on the Pueblo people.

- (1) Douglass, A. E., 1929. The Secret of the Southwest Solved by Talkative Tree Rings. National Geographic Magazine, Vol. LVI, No. 6, pp. 737-770. Washington, 1929.
- (2) McGregor, J. C., 1934. Dates from Tsegi. Tree Ring Bulletin, Vol. 1, No. 1, pp. 6-8. Flagstaff, 1934.
- (3) Haury, E. W., 1934. The Canyon Creek Ruin and the Cliff Dwellings of the Sierra Ancha. Medallion Papers No. XIV, p. 17. Globe, 1934.

## REPORT OF DATES ON THE ALLANTOWN, ARIZONA, RUINS

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A number of structures were excavated near Allantown, Arizona, during the summers of 1931 and 1932 by Dr. Frank H. H. Roberts, Jr., of the Bureau of American Ethnology, Smithsonian Institution. Charcoal specimens only were secured from these structures, 195 in 1931 and 322 in 1932. These are given a group symbol FR, (Frank Roberts), followed by the number of the piece, e.g., FR 320. The majority of specimens were pinon with a few specimens of juniper and Douglas fir.

House 4/32, in Dr. Robert's series, was one in a group of four houses. This was a round pit-house, which had such features of a kiva, as ventilator, deflector, sipapu and banquette, but contained large cooking pots, metates, and other vessels belonging to living quarters.

It is believed to belong to that phase of culture known as early Pueblo I. This culture identity is based on the presence of a ware known as fugitive-red ware, as the red pigment which is placed on the outside of vessels, is easily rubbed off and have never been fired to make it a permanent feature of the vessel; also on the presence of a black-on-white ware showing Chaco influence, and globular pitchers having their handles flush with their lips, and a few pitchers with banded necks; and lastly on the absence of any black-on-red or polychrome ware. A gray granulated pottery was also found there, very irregular in shape and possessing very crude attempts at decoration; this is a type best attributed to the Basket-Maker III and is very similar to that found by Dr. Roberts, (1928), in southwestern Colorado.

The dates secured from charred roof beams, in this structure, were worked out by the writer using the Douglass method of tree-ring dating, (1), and fully checked by Dr. A. E. Douglass. Special attention is called to FR 94 whose outermost ring can be traced over half a circuit, without disappearing. This is strong evidence that we have here the true outside surface of this piece, and the date of its actual cutting.

A second and later chronology was found in Kiva 32/G which was located about a mile up the wash from House 4/32. It is associated with a unit-type house of the Pueblo II culture period. This unit-type house consists of six rooms, all joined, and a large paved court with the kiva. The kiva is located north of the court and east of the house. Kiva 32/G was a true kiva as shown by the absence of metates and cooking pots and the presence of paraphernalia used in sacred ceremonies. The roof of this structure was very similar to that shown in an illustration by Dr. Frank Roberts. (2)

In this ruin there was found a black-on-red ware and the first beginning of a polychrome ware. Pottery shapes had assumed the characteristic shapes attributed to Pueblo II culture and technique of decoration was approaching a masterly stroke.

The dates secured from roof timbers of this structure were also

worked out by the Douglass method and fully checked by Dr. A. F. Douglass.

I take this opportunity to thank Dr. Frank H. H. Roberts and Dr. A. E. Douglass for looking over this paper.

(1) Glock, Waldo S., Tree-ring analysis on Douglass System, Pan-American Geologist, Vol. LX, Aug., 1933.

(2) "Early Pueblo Ruins in the Piedra District Southwestern Colorado," p. 44. Bull. 96, B.A.E., 1930, Roberts, Frank H. H.

Site	Piece Number	Outside Dated Ring	Inside Dated Ring	Approx. Radial Line in MM	Kind of Wood	Type of Specimen	Sap Heart Date	Rings Lost at Outside	Rings Absent Within Sequence	Estimated Bark Date
Allantown										
House 4/32	FR 83	852	812	30	Pnn	chcl fgr		5	0	857 ± 5
	FR 94	858	749	60	Pnn	chcl ½Sec		0	0	858 ± 0
	FR 119	868	808	45	Pnn	chcl fgr		Prob. 20	0	888 ± 15
	FR 133	881	763	41	Pnn	chcl fgr		0 to 10	0	886 ± 5
Kiva 32/G										
	FR 150	959	874	74	Pnn	chcl fgr		Poss. 40	0	995 ± 15
	FR 240	974	876	79	Pnn	chcl fgr		Poss. 20	0	994 ± 20
	FR 313	975	870	83	Pnn	chcl fgr		Poss. 20	0	995 ± 10
	FR 245	999	900	88	Pnn	chcl		Poss. 5	0	1004 ± 5
Allantown										
Kiva 32/G										
	FR 246	993	867	87	Pnn	chcl fgr		Poss. 10	0	1000 ± 7
	FR 308	1011	874	83	Pnn	chcl fgr		Poss. 0	0	1011 ± 2

Pnn—pinon, chcl—charcoal, fgr—fragment.