TA / #1 AMS

GEOCHRON LABORATORIES

a division of Krueger Enterprises, Inc.

711 Concord Avenue ✦ Cambridge, Massachusetts 02138-1002 ✦ USA
t (617) 876-3691 f (617) 661-0148 www.geochronlabs.com

RADIOCARBON AGE DETERMINATION — REPORT OF ANALYTICAL WORK

Our Sample No.	**GX-32372-AMS**	Date Received:	02/22/2006
Your Reference:		Date Reported:	08/25/2006
Submitted by:	Hugo Miller 1215 Bryson Road Columbus, OH 43224-2009		

Sample Name: **P-T-1**

AGE = **30890 ± 200 ^{14}C years BP (^{13}C corrected)**

Description: Sample of bone

Pretreatment: The bone sample was thoroughly cleaned by repeated washing in distilled water under ultrasound to remove dirt and foreign material. The sample was then crushed to fragments of about 1mm and reacted with 1N HCl, under vacuum, to dissolve apatite and other minerals. The insoluble residue remaining after apatite dissolution was filtered and washed. The precipitate was then boiled for 8 hours in slightly acid (pH 3-4) distilled water to solubilize any collagen present. The broth was filtered through fiberglass and the filtrate was evaporated to dryness to recover collagen. Rootlets, humic acids, and other contaminants would have been removed by the filter and discarded. The recovered bone collagen was combusted and the carbon dioxide was recovered for the analysis.

Comments:

$\delta^{13}C_{PDB}$ = **-20.1 ‰**

Notes: This date is based upon the Libby half life (5570 years) for ^{14}C. The error is +/- 1 s as judged by the analytical data alone. Our modern standard is 95% of the activity of N.B.S. Oxalic Acid.

The age is referenced to the year A.D. 1950.