



# GEOCHRON LABORATORIES

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## RADIOCARBON AGE DETERMINATION

## REPORT OF ANALYTICAL WORK

Our Sample No. **GX-32647**

Date Received: 08/25/2006

Your Reference:

Date Reported: 09/12/2006

Submitted by: Hugo Miller  
1215 Bryson Road  
Columbus, OH 43224-2009

Sample Name: **P-T-2**

AGE = **33830 ± <sup>+2910</sup><sub>-1960</sub> <sup>14</sup>C years BP (<sup>13</sup>C corrected)**

Description: Sample of charred bone

Pretreatment: The charred bone fragments were cleaned of dirt and foreign material and treated with a benzene-acetone mixture to extract organic preservatives such as polyvinyl acetate (PVAc) and others. The sample was then dried at 130°C. The dried sample was treated with hot 1N HCl to remove carbonates; with hot 0.1N NaOH to remove humic acids and other organic contaminants; and then again with dilute HCl to avoid absorption of CO<sub>2</sub> from the atmosphere. After washing and drying, the sample was combusted in flowing oxygen. The recovered CO<sub>2</sub> was converted to graphite and measured by accelerator mass spectrometry.

Comments: The sample was counted for an extended period of time.

δ<sup>13</sup>C<sub>PDB</sub> = **-16.6 ‰**

Notes: This date is based upon the Libby half life (5570 years) for <sup>14</sup>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.