



GEOCHRON LABORATORIES

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HUGO MT
#2 CONV 12.82

RADIOCARBON AGE DETERMINATION

REPORT OF ANALYTICAL WORK

Our Sample No. **GX-32739**

Date Received: 11/14/2006

Your Reference:

Date Reported: 01/16/2006

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

Sample Name: **p-H2 (Exterior)**

AGE = **22380 ± 800 ¹⁴C years BP (¹³C corrected)**
6.33 ± 0.84 % of the modern (1950) ¹⁴C activity

Description: **Sample of bone**

Pretreatment: The 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 1N HCl to remove carbonates; with 0.1N NaOH; and then again with dilute HCl to avoid absorption of CO₂ from the atmosphere. After washing and drying, the sample was combusted in flowing oxygen.

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

$\delta^{13}\text{C}_{\text{PDB}}$ = **-16.0 ‰**

Notes: This date is based upon the Libby half life (5570 years) for ¹⁴C. 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.