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September 8, 2008

Dr. Albert M. Pecora
Ohio Valley Archaeology, Inc.
4889 Sinclair Road
Suite 210
Columbus, OH 43229
USA

RE: Radiocarbon Dating Results For Samples 33LE726F1L5, 33LE726F2, 33LE726F3L2

Dear Dr. Pecora:

Enclosed are the radiocarbon dating results for three samples recently sent to us. They each provided plenty of carbon for accurate measurements and all the analyses proceeded normally. As usual, the method of analysis is listed on the report with the results and calibration data is provided where applicable.

As always, no students or intern researchers who would necessarily be distracted with other obligations and priorities were used in the analyses. We analyzed them with the combined attention of our entire professional staff.

If you have specific questions about the analyses, please contact us. We are always available to answer your questions.

The cost of the analysis was charged to the VISA card provided. A receipt is enclosed. Thank you. As always, if you have any questions or would like to discuss the results, don't hesitate to contact me.

Sincerely,



REPORT OF RADIOCARBON DATING ANALYSES

Dr. Albert M. Pecora

Report Date: 9/8/2008

Ohio Valley Archaeology, Inc.

Material Received: 8/6/2008

| Sample Data | Measured Radiocarbon Age | 13C/12C Ratio | Conventional Radiocarbon Age(*) |
|---|--------------------------|---------------|---------------------------------|
| Beta - 247749 SAMPLE : 33LE726F1L5 ANALYSIS : Radiometric-Standard delivery MATERIAL/PRETREATMENT : (charred material): acid/alkali/acid 2 SIGMA CALIBRATION : Cal AD 690 to 980 (Cal BP 1260 to 970) | 1180 +/- 50 BP | -24.5 o/oo | 1190 +/- 50 BP |
| Beta - 247750 SAMPLE : 33LE726F2 ANALYSIS : Radiometric-Standard delivery MATERIAL/PRETREATMENT : (charred material): acid/alkali/acid 2 SIGMA CALIBRATION : Cal AD 540 to 690 (Cal BP 1420 to 1260) | 1410 +/- 70 BP | -24.3 o/oo | 1420 +/- 70 BP |
| Beta - 247751 SAMPLE : 33LE726F3L2 ANALYSIS : Radiometric-Standard delivery MATERIAL/PRETREATMENT : (charred material): acid/alkali/acid 2 SIGMA CALIBRATION : Cal BC 1080 to 800 (Cal BP 3030 to 2750) | 2740 +/- 70 BP | -24.1 o/oo | 2760 +/- 70 BP |

Dates are reported as RCYBP (radiocarbon years before present, "present" = AD 1950). By international convention, the modern reference standard was 95% the 14C activity of the National Institute of Standards and Technology (NIST) Oxalic Acid (SRM 4990C) and calculated using the Libby 14C half-life (5568 years). Quoted errors represent 1 relative standard deviation statistics (68% probability) counting errors based on the combined measurements of the sample, background, and modern reference standards. Measured 13C/12C ratios (delta 13C) were calculated relative to the PDB-1 standard.

The Conventional Radiocarbon Age represents the Measured Radiocarbon Age corrected for isotopic fractionation, calculated using the delta 13C. On rare occasion where the Conventional Radiocarbon Age was calculated using an assumed delta 13C, the ratio and the Conventional Radiocarbon Age will be followed by "**". The Conventional Radiocarbon Age is not calendar calibrated. When available, the Calendar Calibrated result is calculated from the Conventional Radiocarbon Age and is listed as the "Two Sigma Calibrated Result" for each sample.

CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-24.5:lab. mult=1)

Laboratory number: Beta-247749

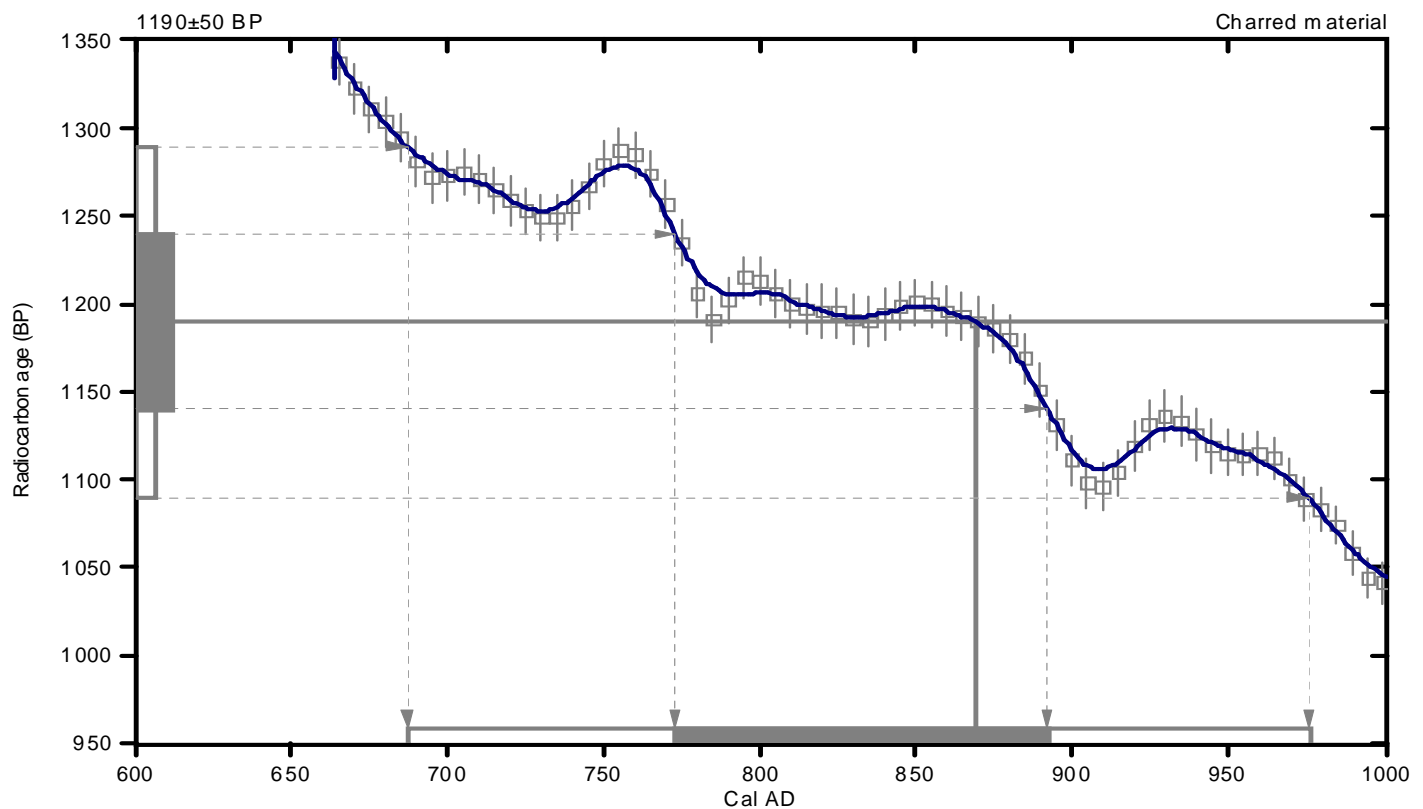
Conventional radiocarbon age: 1190±50 BP

**2 Sigma calibrated result: Cal AD 690 to 980 (Cal BP 1260 to 970)
(95% probability)**

Intercept data

Intercept of radiocarbon age
with calibration curve: Cal AD 870 (Cal BP 1080)

**1 Sigma calibrated result: Cal AD 770 to 890 (Cal BP 1180 to 1060)
(68% probability)**



References:

Database used

INTCAL04

Calibration Database

INTCAL04 Radiocarbon Age Calibration

IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).

Mathematics

A Simplified Approach to Calibrating C14 Dates

Talma, A. S., Vogel, J. C., 1993, Radiocarbon 35(2), p 317-322

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CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-24.3:lab. mult=1)

Laboratory number: Beta-247750

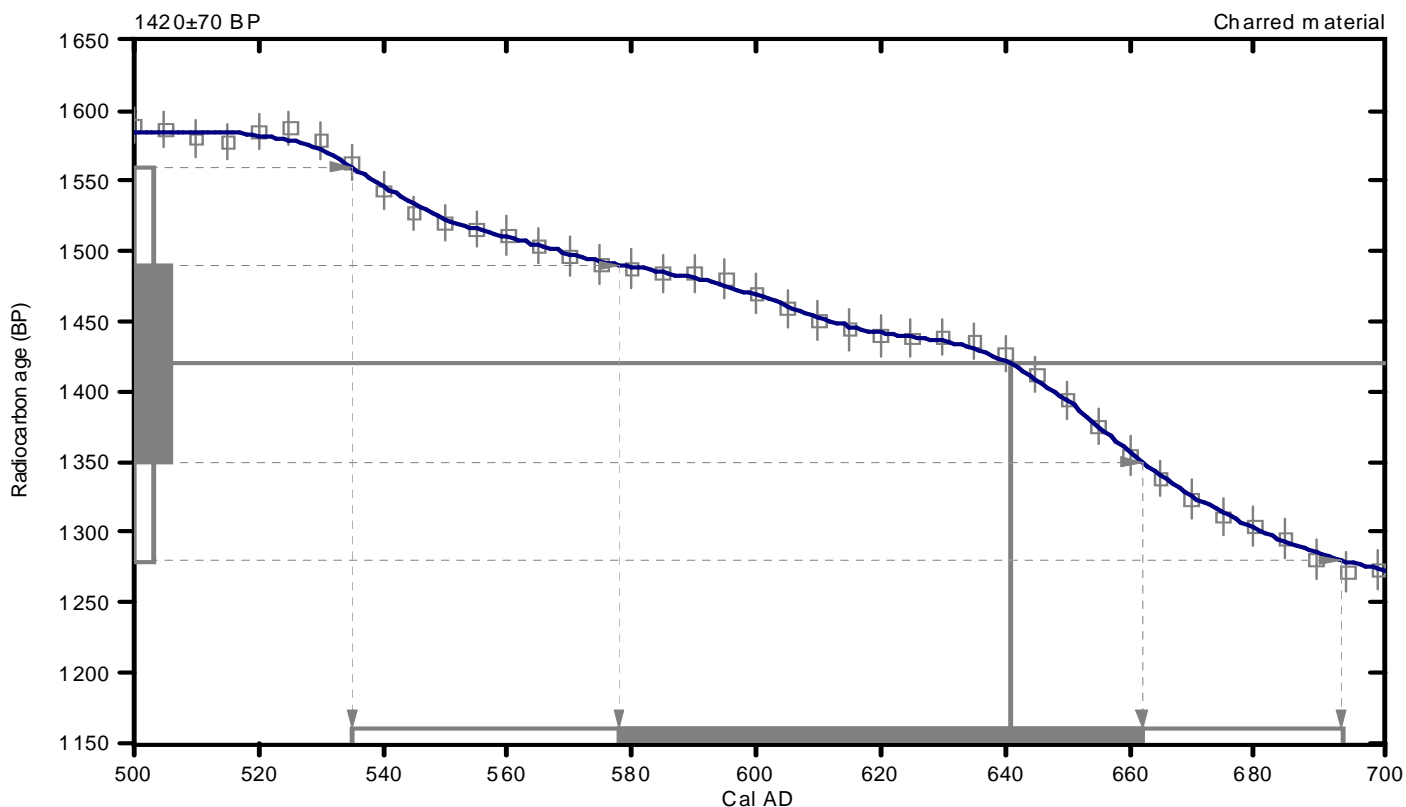
Conventional radiocarbon age: 1420±70 BP

**2 Sigma calibrated result: Cal AD 540 to 690 (Cal BP 1420 to 1260)
(95% probability)**

Intercept data

Intercept of radiocarbon age
with calibration curve: Cal AD 640 (Cal BP 1310)

1 Sigma calibrated result: Cal AD 580 to 660 (Cal BP 1370 to 1290)
(68% probability)



References:

Database used

INTCAL04

Calibration Database

INTCAL04 Radiocarbon Age Calibration

IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).

Mathematics

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CALIBRATION OF RADIOCARBON AGE TO CALENDAR YEARS

(Variables: C13/C12=-24.1:lab. mult=1)

Laboratory number: Beta-247751

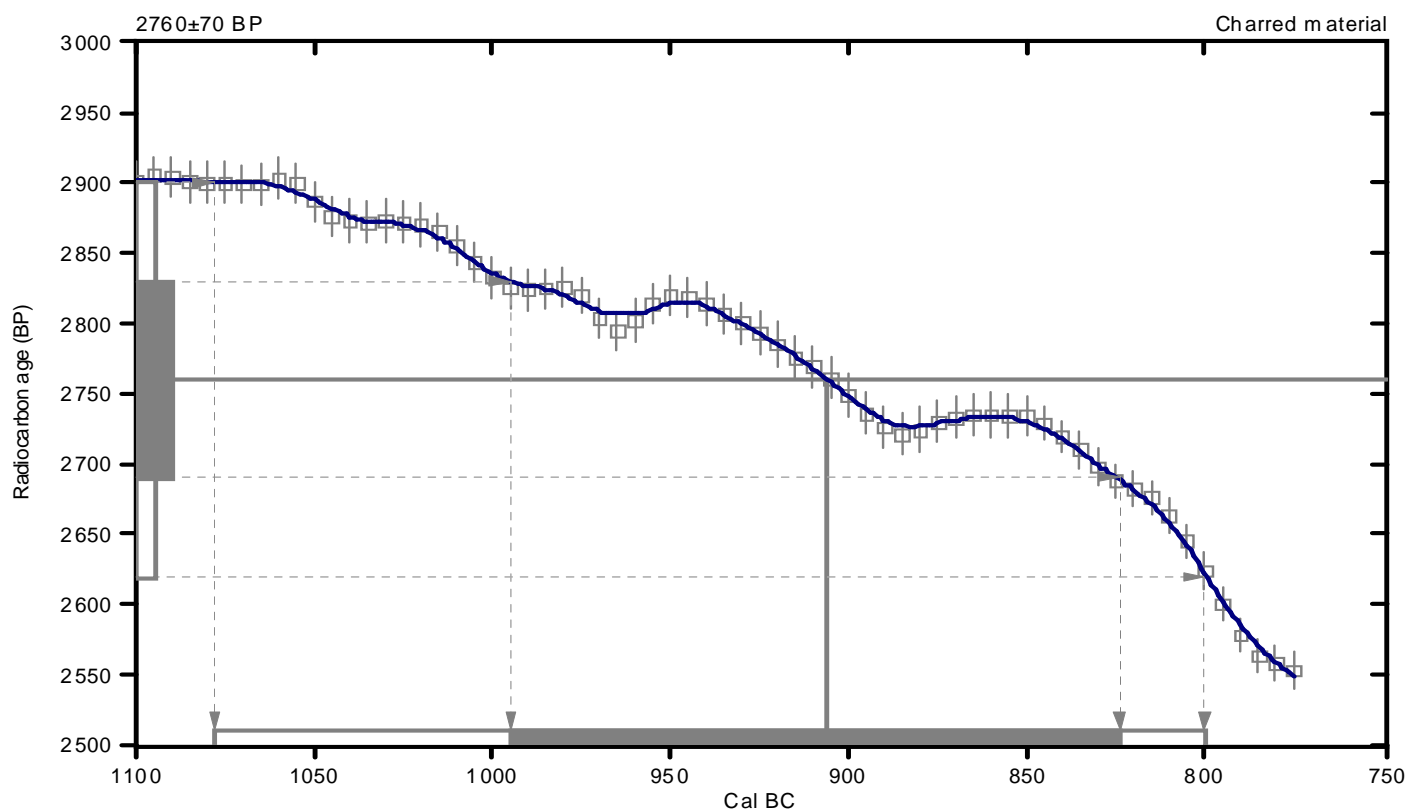
Conventional radiocarbon age: 2760±70 BP

**2 Sigma calibrated result: Cal BC 1080 to 800 (Cal BP 3030 to 2750)
(95% probability)**

Intercept data

Intercept of radiocarbon age
with calibration curve: Cal BC 910 (Cal BP 2860)

**1 Sigma calibrated result: Cal BC 1000 to 820 (Cal BP 2940 to 2770)
(68% probability)**



References:

Database used

INTCAL04

Calibration Database

INTCAL04 Radiocarbon Age Calibration

IntCal04: Calibration Issue of Radiocarbon (Volume 46, nr 3, 2004).

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