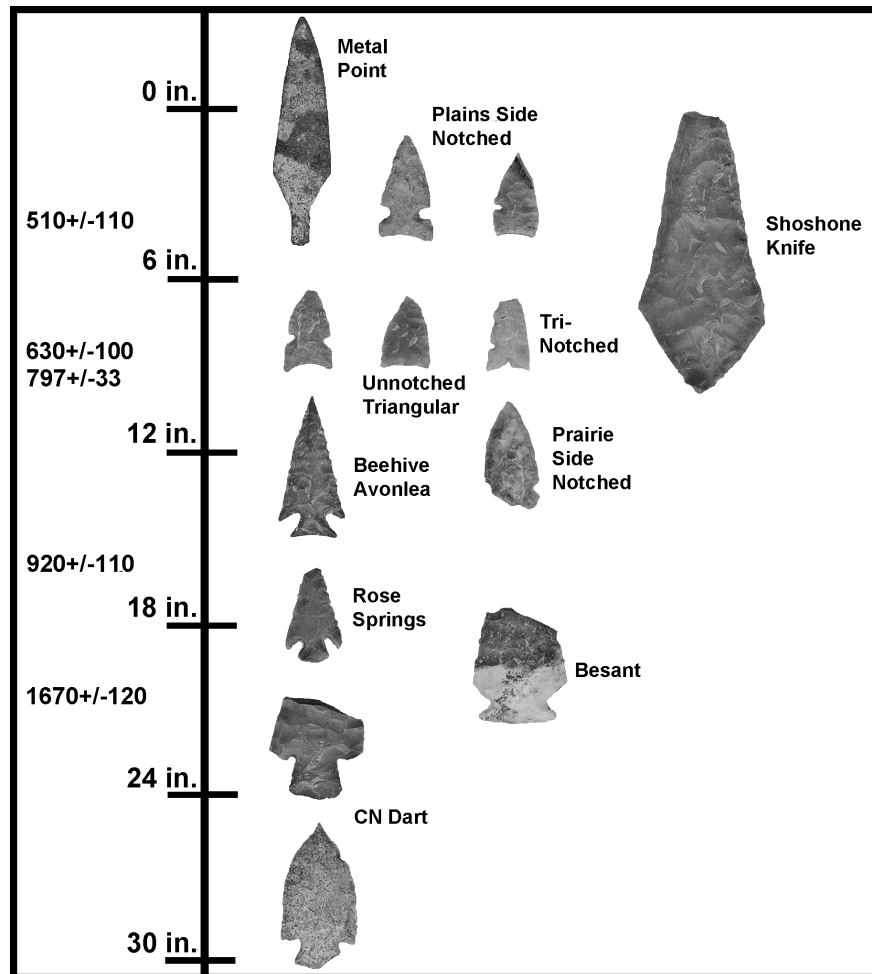


THE WYOMING Archaeologist

VOLUME 57; NUMBER 1; 2013



ISSN: 0043-9665

[THIS ISSUE PUBLISHED
March 2015]



THE WYOMING *Archaeologist*

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On the Cover:

Projectile points from the Garrett Allen (Elk Mountain) site. See article by David Eckles, this issue.

Information for Contributors

THE WYOMING ARCHAEOLOGIST is published twice a year by the Wyoming Archaeological Society, Inc, with the assistance of the Wyoming Department of State Parks and Cultural Resources. Address manuscripts and news items for publication to: Dr Danny Walker, Editor; 1687 Coughlin St; Laramie WY 82072. Email dawalker@wyoming.com 307-399-0948

Please send a minimum of two (2) hard copies of each manuscript submitted. A third copy would speed the process. Please contact the Editor for instructions if the manuscript is available in electronic format. Readers should consult the articles in this issue for style and format. Deadline for submission of copy for spring issues is January 1 and for all issues is July 1. Reports and articles received by the Managing Editor after those dates will be held for the following issue.

The membership period is from January 1 through December 31. All subscriptions expire with the Fall/Winter issue and renewals are due January 1 of each year. Continuing members whose dues are not paid by March 31 of the new year will receive back issues only upon payment of \$5.00 per issue. If you have a change of address, please notify the Executive Secretary/Treasurer. Your *WYOMING ARCHAEOLOGIST* will not be forwarded unless payment is received for return and forwarding postage. Back issues in print can be purchased for \$5.00 each, plus postage. Back issues out of print are available at \$0.25 per page plus postage.

Checks for chapter subscriptions and renewals should be sent to the chapter secretary involved. All other checks, subscriptions, and renewals should be addressed to the Executive Secretary/Treasurer. Correspondence and orders for back issues should be addressed to the Executive Secretary/Treasurer.

Society yearly subscription rates are as follows:
Individual Associate Member - \$20.00
Institutional Member - \$30.00
Canada and Other Foreign - \$34.00

Other memberships may be available. Contact the Executive Secretary/Treasurer for information. Local chapter dues are in addition to state society dues. The Wyoming Archaeological Society is a Nonprofit Organization.

The Wyoming Archaeological Society, Inc. and its local chapters do not discriminate on the basis of age, gender, sexual orientation, gender identity, gender expression, ethnicity, disability, national origin, political affiliation, or religious belief.

Neither the State of Wyoming, the Wyoming Department of State Parks and Cultural Resources, the Office of the Wyoming State Archaeologist, the Wyoming Archaeological Society, Inc., nor their employees or appointed or elected officials can be held responsible for any comment or viewpoint expressed in any issue of *The Wyoming Archaeologist*. The author(s) of each article or issue are totally responsible for the content and view expressed in their paper(s).

THE WYOMING ARCHAEOLOGIST

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THIS ISSUE PUBLISHED MARCH 2015

WYOMING ARCHAEOLOGICAL SOCIETY
MEMORIAL GIFT or CONTRIBUTION FORM

Given by: Miss, Mrs., Mr., Ms., Dr. \$ _____ (Amount)

Name: Last _____ First _____ Middle _____

Address: _____ City & State _____ Zip _____

Donor phone number () _____

TYPE OF GIFT: General Contribution [] Specific Contribution []

In Memory of: _____
Name City & State

In Honor of: _____
Name City & State

Specify where you would like your money to go (e.g., Mulloy or Frison Scholarship Funds, The Wyoming Archaeologist, ????????)

Please make your check payable to THE WYOMING ARCHAEOLOGICAL SOCIETY
Send to Carolyn Buff, Executive Secretary/Treasurer, 1617 Westridge Terrace, Casper, WY 82604

WYOMING ARCHAEOLOGICAL FOUNDATION
MEMORIAL GIFT or CONTRIBUTION FORM

Given By: Miss, Mrs., Mr., Ms., Dr. \$ _____ (amount)

NAME: LAST _____ FIRST _____ MIDDLE _____

ADDRESS: _____ CITY & STATE _____ ZIP _____

Donor phone number: _____

Type of Gift: General Contribution [] Specific Contribution []

In Memory of: _____
Name City & State

In Honor of: _____
Name City & State

Please specify where your donation is to be placed.
Jensen/Robson Research Grant _____; Jensen/Robson PhD Travel Award _____;
Hell Gap Research _____; WAF General Operations _____; Other _____.

WAF Funding Initiatives: George C. Frison Institute Endowment _____.

WAF has pledged \$100,000.00 to the Frison Institute Endowment (2011 – 2016). Funds given to the GFI Endowment will be matched dollar for dollar by the Wyoming State Legislature, doubling your donation. For further information please contact Surovell@uwyo.edu, Frison Institute Director.

Please make your check payable to the WYOMING ARCHAEOLOGICAL FOUNDATION and mail to Barbara Nahas, WAF Treasurer, P.O. Box 725 – Cody WY, 82414; 307-868-2685.

IN MEMORIUM

Evelyn Jacobsen Albanese
1927-2014

Evelyn Jacobsen Albanese, 87, of Casper passed away on Thursday, November 13, 2014 of heart failure.

Evelyn was born in Torrington, WY on August 25, 1927 to Gerhard and Johanna (Kirk) Jacobsen. She grew up on a cattle ranch west of Glendo, WY, graduating from Wheatland High School. She attended the University of Wyoming, studying liberal arts. There she met and married John Albanese in 1946. John and Evelyn lived in Billings, MT and Denver, CO before settling in Casper in 1962.

Their 68 years of marriage took them on many adventures as Evelyn accompanied John on many regional and international archaeological investigations. She liked to recount the story of traveling to Brazil where she had the distinction of being the first white woman the local Indians had ever seen. John and Evelyn also enjoyed traveling for pleasure; some of their favorite destinations were Greece, France and South Africa.

Evelyn enjoyed reading, working crossword puzzles, gardening, spoiling her pets, and

spending time with friends. Her love of books extended beyond her own passion for a good story as she shared books with others through her volunteer support of Natrona County Library both in the library and through their nursing home volunteer reading program. Her sharp mind and keen intellect helped her solve the daily newspaper crosswords in record time, filling them in without hesitation or erasures. Evelyn was a talented flower gardener and had a beautiful rose garden enjoyed by friends, family, neighbors and deer alike. John and Evelyn had many cats and dogs over the years and she spent many hours laughing at their antics or relaxing with a warm cat curled up on her lap. Evelyn loved to gather with friends, either over a good meal or in the mornings for a little bit of exercise and a lot of conversation over coffee.

Services were held on Wednesday, November 19, 2014 at 1:00 pm at Bustard's Funeral Home, 600 CY Ave., Casper, WY.

Memorial donations may be made to the Natrona County Public Library, 307 E 2nd St, Casper, WY 82601.

IN MEMORIUM



**George W. Brox
1918-2014**

George W. Brox, 96, died on November 25, 2014 in Fremont, NH. He was born on April 23, 1918 to Wilbur A. and Ona K. Berry in Carpenter, Wyoming, and moved to Rawlins in January of 1923 with his parents.

He attended Westward Elementary School, Central School and Rawlins High School graduating in 1936. In 1982 he retired from L. M. Olsen and served as a bailiff in Carbon County Court in 2000 and 6th District Court in 2004.

George was a member of St. Thomas Episcopal Church. At his passing, he held the longest in force Lay Readers License in the state of Wyoming for the Episcopal Church.

He was a master cabinet maker and carpenter in Rawlins and has built or worked on most of the houses and buildings in town. George's other interests included serving as Wyoming Archaeological Society Past President 1976-1977; editor of *The Wyoming Archaeologist* from 1977-1986; Golden Trowel Award recipient 1981; and Wyoming Archaeological Foundation Past President late 1980s-early 1990s.

George helped organize the stewardship program for the newly purchased Hell Gap Paleoindian site; was a member of the Wyoming Association of Professional Archaeologists; a

WAPA 1986 Service Award recipient for Outstanding Contributions to Wyoming Archaeology; a member of the Plains Anthropological Society; and a field volunteer for archaeological projects with the University of Wyoming and Office of Wyoming State Archaeologist 1970s-1990s.

George also enjoyed hunting, fishing and camping and his great passion was the outdoors of Carbon County, and golf which he took up at 89 years old.

He was preceded in death by his parents Wilbur and Ona, a sister Gurtrude V., Mary Jane McKay, wife of 55 years and son Rob. George is survived by son Greg and his wife Sherry of Fremont, N.H., granddaughter Sarah Brox of Manchester, NH, grandson and his wife Aaron and Jessica Brox and great grandson Casey of Greenville, NH and many nieces and nephews.

Cremation has taken place and internment will be in the Rawlins Cemetery at a later date. Brewitt Funeral Service, 2 Epping St., Raymond, NH is assisting the family with arrangements.

In lieu of flowers, donations may be made in his memory to a charity of one's choice.

NEWS AND ANNOUNCEMENTS

**Wyoming Archaeological Society, Inc.
2014 Annual Meeting Minutes
8:10 a.m. – Sublette County Library –
Pinedale, WY
Saturday, May 3, 2014**

Presiding: Judy Wolf, 1st Vice President

Call to Order: 8:10 a.m.

Judy Wolf announced Bill Scoggin had resigned as president.

Report of Credentials Committee/Roll Call of Delegates: Executive Secretary/Treasurer Carolyn Buff certified the voting delegates: Absaroka – Sylvia Huber; Ancient Trails – Cher Burgess and Alice Tratebas; Casper – John and Mavis Greer; Cheyenne – Richard Curritt and Russell Kaldenburg; Fremont County – Larry Amundson and Eva Peden; June Frison – Rich Adams and Carmen Clayton; Pumpkin Buttes – absent; Sheridan/Buffalo – Naomi Ollie and Tammy Sorenson; Sweetwater County – Russ Tanner; and Upper Green River Basin – Mary Lynn Worl and Dave Vlcek.

A new Carbon County chapter was introduced and welcomed, with Ed Kennaday and Patrick Walker as the delegates.

Roll Call showed nine chapters represented: Absaroka, Ancient Trails, Carbon, Casper, Cheyenne, Fremont, June Frison, Sheridan/Johnson County, Upper Green River, and Sweetwater. Absent was Pumpkin Buttes.

Approval of Minutes of April 27, 2013: Motion by Sylvia Huber, second by Rich Adams, to approve as published in Volume 56(2) Fall 2012 issue of *The Wyoming Archaeologist* with a correction the Jensen Award should be called the Jensen/Robson Doctoral Travel Award. Carried.

Treasurer's Report: Executive Secretary/Treasurer Carolyn Buff gave the treasurer's report showing a total net worth of \$82,442.09, an increase of \$2,275.13.

Auditor's Report: Clint Gilchrist, Sylvia Hu-

ber, and Mavis Greer certified the treasurer's report was in order.

Editor's Report: Danny Walker – Announced he has enough manuscripts for another issue but then he would need more and asked for submissions. The journal is one year behind on publications.

Librarian's Report: Danny Walker – Have received approximately four donations of books but they are not accessioned at this time.

Judy Wolf announced the executive committee had appointed Danny Walker as editor and Jody Clauter as librarian and co-editor and would like to see them work with the agency's graphic designer to update the look of the journal.

Judy thanked Dewey Baars for his many years of service as editor.

Committee Reports: Scholarship: Carolyn Buff announced the Scholarship Committee would meet at lunch in the library to evaluate the scholarship applications, and committee members need to order lunch to be delivered. She also announced the executive committee had voted to increase the Frison and Mulloy scholarship amounts to \$1,000 each, and Dr Richard McGinity, president of the University of Wyoming, had agreed to match the scholarship amounts

SAA/COAS: Marcel Kornfeld reported there was a small avocational attendance at the conference and it might not be clear societies should be sending representatives to the meetings. Copies of the newsletter are available at his table. This is the first time there was not a Wyoming column and he wants reports from the chapters.

Chapter Reports: The chapter reports will be published in *The Wyoming Archaeologist*.

State Archaeologist's Report: "As most of you know, I am retiring on June 6, so this is my final report to WAS as Wyoming State Archaeologist. I first attended WAS meetings over 40 years ago

in Saratoga, and vividly remember my initial chapter banquet when Dr Frison was guest speaker. We had just finished a delicious meal of succulent beef, pink and warm on the inside, when George began speaking on experimental bison butchering with stone tools. His graphic slide show illustrated the way bloody red meat leaves a steaming carcass to become sustenance for the consumer, a vivid epilog to our recent feast impressed us all.

My 30 years as state archaeologist have seen some tremendous successes in Wyoming archaeology, and in the evolution of the Wyoming Archaeological Society. While chapter participation ebbs and flows, I understand WAS is reaching the 500 membership threshold and is quite a benchmark. Carolyn Buff and I have visited no fewer than six new start-up chapters to help them get lined out in the society. Our group also has successfully addressed the need for the Wyoming Archaeological Foundation, staffed by WAS members, to purchase and hold the Hell Gap site for long-term research and stewardship. And not the least, WAS has now given out over \$50,000 to students in its scholarship program. Four years ago the University of Wyoming began matching the amounts provided to each student by the Society and just a couple weeks ago, we received word they will continue to do so this year.

I have been privileged to work on some of the most significant archaeological sites in Wyoming during my term as state archaeologist. The Butler-Rissler site near Casper, Trappers Point just outside Pinedale, the Wagon Box Battlefield, and the Finley site are just a few examples. For me, there is no feeling on earth quite like the discovery of new evidence on a Wyoming archaeological site, and the development of its information content.

But none of this would have been possible without a network of dedicated professionals and avocationalists extending far beyond the limits of the state archaeologist's office. It is that network and their shared passion for under-

standing our past that will sustain our program and the search for new knowledge. Public archaeology has grown and diversified in the last few decades, and we will face new challenges together, including the evolving role of media and its portrayal of archaeology, the inevitable replacement of baby boomer archaeologists with new generation researchers, the need for a unified front during threats to the survival of Wyoming archaeology as a program of study, and the constant need to advance archaeology in public education so future generations gain from our experiences and do not repeat our mistakes I have thoroughly enjoyed working with the Wyoming Archaeological Society through the years, and I thank you for your unflagging commitment to our archaeological record.

Old Business:

Wyoming Archaeology Awareness Month – Judy Wolf reported Wyoming had placed first again with the poster. She requested \$250 for Archaeology Awareness Month in September and thanked the Society for the continued support. She announced chapters could pick up posters and t-shirts, mugs, and caps were available for purchase.

Motion by Eva Peden, second by Cher Burgess to donate \$250 to WAAM. Carried.

Wyoming History Day: Danny Walker announced the WAS had awarded \$100 to a middle school contestant from Jackson who did a cultural anthropology display on the Shoshone.

Frison Institute: Todd Surovell announced the endowment had passed the \$500,000 mark thereby generating about \$20,000 for support. An additional possibility for some future funding is applying to the Wyoming Cultural Trust Fund for \$55,000 a year.

The fall speaker will be Dr John Erlandson, presenting on September 25.

Friends of the George G. Frison Institute: Bill Scoggin announced he was through; therefore there was no report.

Wyoming Archaeological Foundation: Judyth Reed, president, reported the Foundation meet-

ing will be held at 7:30 in the Library Board Room, adjacent to the Lovett Room and all WAS members are invited.

Hell Gap has seen a lot of activity the past year with visitation by school children and researchers.

New handicap ramps were installed at the lab trailer and at the main house and the house was painted. A building extension was placed at Locality IE, increasing the research area.

A National Historic Landmark nomination was submitted to the National Park Service.

An open house was held July 27 where the public was invited to tour the site and excavations. UW field school sessions were held July 13-21 and July 27-August 4. WAS held their annual summer meeting at this time as well an atlatl contest being sponsored with a mammoth replica for people to practice some traditional hunting skills.

The Foundation has awarded six grants since the inception in 2007. These grants are available to WAS members to further research.

Web Site: John Laughlin informed the membership the web site had been down for approximately two months but has been rebuilt and is up and running and is being hosted by GoDaddy. All past journals on the site are available as single pdfs. John mentioned Dan Bach had spent many hours on the phone trying to resolve the issues with the web site, and continues to work diligently on the site.

iGive and Amazon.com: Carolyn Buff announced we had earned \$37 in donations from the iGive site. Business partners are listed on the web site, betty.igive-694908-@igive.com, and instructions for the WAS to receive the donations are also on the web site. This is an easy way for the WAS to get a little more funding, and it is painless. Anyone ordering through the internet can participate. This is a site whereby companies agree to donate a small percentage of customer purchases to a designated non-profit. She is also working to get the same benefit through Amazon.com.

Names, addresses, etc. Carolyn Buff requested names, addresses, phone numbers and emails be updated as soon as possible and to please provide zip +4s. Any piece of junk mail can provide the information. Just look at the address.

New Business

125th Anniversary of Wyoming Statehood:

Judy Wolf – The celebration will be held in 2015. The state historical society is planning the anniversary with a call for papers and they would very much like to see the archaeological community participate. There will be a conference in Laramie June 11-14, 2015.

Sara Needles mentioned several state agencies are planning activities and asked WAS chapters think about how to participate. Members can contact her or Judy for information.

Judy is planning a public display of all of the archaeological posters through the years. This is a broad-spectrum activity and everyone is invited to participate.

Honorary Lifetime Memberships: Motion by Alan Culver, second by Rich Adams to award Honorary Lifetime Memberships to Drs Charles Reher and Mark Miller. Carried.

Army National Guard: Ken Humphrey – issued an invitation to the membership to attend and participate in a kick-off meeting on May 22, from 1:30-3:30 p.m. at Camp Guernsey to begin seeking information to develop an interpretive plan to educate the public and soldiers on the vast cultural resources on the camp property. They would like for this to be a collaborative project between any interested parties.

Stewardship Program: John Laughlin talked about plans go to the LaBarge Bluff Petroglyphs and Whoopup Canyon with Tom Noble and Nefra Matthews of the BLM office in Denver, to do photogrammetry on the rock art at those two locations. Members can contact either John or Joe Danielle for more information on the stewardship program.

State Historic Preservation Office – Sara Needles announced the new protocol between the SHPO and BLM had been signed the last

week of April. SHPO is starting a new seven-year plan and is seeking public input.

SHPO has hired a new architect and trails person. A field experience with the UW field school will be held on the Wold ranch this summer.

The Wyoming Cultural Trust Fund was discussed and it was suggested more archaeological proposals need to be submitted. There are two grant opportunities each year with a cap of \$50,000 each.

Sara announced an offer had been made for the state archaeologist's job and it was being considered.

Survey Section: Marcia Peterson announced the survey section would be moving to the anthropology building on the University of Wyoming campus in July.

The China Wall report has been completed and is with the SHPO for review. The draft report of the Game Creek project will continue to be worked on through the summer. Dan Eakin will continue his work with the Nez Perce, and Marcia will continue with the Targhee project, as well as any WYDOT projects.

There will be a retirement party for Dr Miller at the Survey Office on May 17 at 4:30 p.m.

Backup Signatory for Bank Accounts – Due to the retirement of Dr Miller, there needs to be a new backup signatory on the accounts of the society held at Reliant Federal Credit Union, and the change needs to be an official action by the Society and recorded in the minutes. Motion by Sylvia Huber, second by Ed Kennady to designate the incoming Wyoming State Archaeologist, Greg Pierce, as the backup signatory on the accounts held at Reliant Federal Credit Union in Casper. Carried.

Bylaws Amendments and Updates – Carolyn Buff, Sam Drucker, Mavis Greer, John Laughlin, and Danny Walker will make up the committee to review and suggest amendments and updates to the bylaws, with notification going out to chapters at least 90 days prior to the 2015

annual meeting.

Job Descriptions for Executive Committee Members – Motion by Ed Kennaday, second by Alan Culver to require job descriptions of all executive committee members, to be submitted prior to the 2015 annual meeting, with the executive secretary/treasurer sending out a reminder to members. Carried.

Grant Application to Wyoming Cultural Trust Fund – Bryon Schroeder has applied for a grant to work the Shirley Basin site, with the Wyoming Archaeological Society as the pass-through agency for the funding. Original work was done on the site in the 1960s. There will be a 10-day work session with dates to be announced if the grant is awarded, and volunteers will be invited to help.

Fall Activities: Mark Miller mentioned the Archaeology Month speaker would be in Laramie on September 25, 2014 and there is some interest in rekindling the fall workshops.

Brochures, Letterhead, Envelopes, Membership Cards: are available from Carolyn Buff. **Correspondence:** Carolyn Buff noted there were thank-you notes on the table for perusal after the meeting.

Election of Officers: Dan Bach, chair (unable to attend meeting), Cheyenne Chapter; Sylvia Huber, Absaroka Chapter, and Denise Tugman, Pumpkin Buttes Chapter. Nominated were Judy Wolf, president; Dan Bach, 1st vice president; Sylvia Huber, 2nd vice president; and Dave Vlcek, member-at-large to the Wyoming Archaeological Foundation. Motion by Alan Culver, second by Rich Adams to cease nominations and cast a unanimous ballot. Carried.

Nominating Committee procedures will be posted to the web site and will be passed on to the next committee.

2015 Nominating Committee: Sylvia Huber, 2nd vice president, Absaroka Chapter, chair; Denise Tugman, Pumpkin Buttes Chapter; and Rich Adams, June Frison Chapter.

Selection of Site for 2015 Annual Meeting: The 2015 meeting will be held in Riverton at the

Holiday Inn and hosted by the Fremont County Chapter on May 1-3, 2015.

Selection of Site for 2014 Summer Meeting: Invitation by Marcel Kornfeld to visit the Hell Gap site from July 25-July 27, 2014.

Announcements: Carolyn Buff asked for an updated list of chapter officers.

Mavis Greer announced the American Rock Art Research Association will hold its annual meeting July 4-7 in Rock Springs at the Holiday Inn with field trips on Friday and Saturday, papers on Sunday, and field trips again on Monday.

The Wyoming Archaeological Foundation will meet at 7:30 a.m. in the board room of the library, and the field trip to the Wardell Site will begin at 9:00 a.m., beginning in the library parking lot.

Carolyn Buff announced the WAS window clings and magnetic decals were available for sale from Mavis Greer. They can also be purchased from the website.

Other Business to Come Before the Body: Sara Needles introduced Wayne Diel from Torrington as a new State Parks and Cultural Resources Commissioner.

George Frison talked about the mountain sheep horn, sinew-backed reflex bow donated by Lillian Allen and found in a cave in the area. It is the only one known in this part of the country and he suggested WAS members go look at it.

Judy Wolf announced t-shirts, mugs, and water bottles were available for purchase, with proceeds supporting Wyoming Archaeological Month.

Adjourn: There being no further business, the meet adjourned at 9:30 a.m.

/s/ Carolyn M Buff
Executive Secretary/Treasurer

AUDITING COMMITTEE REPORT
March 31, 2014

In accordance with the bylaws, the Auditing

Committee has reviewed the Treasurer’s books and records for the Wyoming Archaeological Society, Inc. for fiscal 2013.

AUDITING COMMITTEE SUMMARY
March 31, 2014

The Wyoming Archaeological Society, Inc. owns one checking account, one savings account, two money market accounts, and two certificate of deposit accounts at the Reliant Federal Credit Union, 4015 Plaza Dr, Casper, WY 82604.

Balance on hand March 31, 2013 - \$80,166.96 (corrected balance)

Receipts

Interest Earned – \$517.85

Deposits – \$13,668.44

Disbursements – \$11,911.16

Balance on hand March 31, 2014 – \$82,442.09

Includes no (0) outstanding check(s) and no outstanding deposits.

Audited and found correct.

/s/ Clint Gilchrist Date May 3, 2014

/s/ Mavis Greer Date May 3, 2014

/s/ Sylvia Huber Date May 3, 2014

Wyoming Archaeological Society, Inc.
Scholarship Committee Minutes
May 3, 2014 – Sublette County Library -
Pinedale
11:55 a.m.

Presiding: Carolyn Buff, Chair

Present: Carolyn Buff, Mary Lou Larson, (ex officio), Mark Miller (ex officio), Barbara Nahas, Paul Sanders, Bill Scoggin, Brian Waitkus, and Judy Wolf.

Motion by Mary Lou Larson, second by Mark Miller to award the Henry and Clara Jensen/Robson Doctoral Travel Award to Kevin Malloy, with \$250 coming from the Wyoming Archaeological Foundation, \$250 from the

Wyoming Archaeological Society, and \$250 from the Wyoming Association of Professional Archaeologists, for a total of \$750, with the stipulation the guidelines be reevaluated. Carried.

Motion by Barbara Nahas, second by Mark Miller to award \$1000 to Gale Brow for the Mulloy Scholarship. Carried.

The committee voted early in February by email to grant \$500 each to Jordan Stapley and Starla Rameriz, both from Central Wyoming College in Riverton, for the Reiss Scholarship. Carried.

Since there were no applicants for the Frison graduate scholarship, no money was awarded.

The committee agreed frequently asked questions about the scholarship should be put on the web site.

Mark Miller announced Dr Richard McGinity, University of Wyoming President, will match the scholarship amounts. Upon receipt of the check, the amounts will be forwarded to the students. Our thanks are extended to Dr McGinity and the University of Wyoming.

In an effort to entice more students to apply for the scholarships, the following people agreed to again visit classes beginning early in January as soon as the second semester begins, to speak with students and faculty re the Reiss Memorial Scholarship: Casper, Carolyn Buff; Central, Leneigh Schrinar; Western, Russ Tanner; LCCC, Cheyenne and Laramie, John Laughlin; Northwest, Sylvia Huber; Sheridan, Vi Gardner; Gillette, Denise Tugman; Eastern, Alan Korell, and UW, the new State Archaeologist. Each person will take the appropriate application forms and encourage students to apply and faculty to write recommendation letters. It was decided just emailing faculty was not a viable option at this time; we needed to present to students face-to-face since the opportunities were not reaching the students.

Adjourn: 12:25 p.m.

/s/ Carolyn M Buff

Scholarship Chair

**Wyoming Archaeological Society, Inc.
Chapter Reports for the 2013-2014 Year**

Absaroka: Activities – Continue to provide chapter with Northwest College program information.

Public Education - Distributed Archaeology Awareness month posters around the Bighorn Basin, monthly chapter meetings with programs open to the public.

WAS Reiss Scholarship information presented to Northwest College students.

Work With Other Organizations – Awarded Milford Hanson Scholarship through Basin-wide high schools. Members are active in the Site Stewardship and Monuments and Markers program.

Other – Continued to expand the Chapter Library with a collection of DVDs, articles and books can be checked out to chapter members.

Programs Presented – Todd Guenther, “Pacific Springs Station;” Dr Mavis Greer, “Rock Art in the Caves of Southern France and Northern Spain;” Dr Danny Walker, “Searching for My Wife’s Ancestors: Archaeology and History of the Czech Republic;” Michael Page, “Results of the 2010-2011 Game Creek (48TE1573) Excavation;” John Laughlin, “A History of Investigations at the Finley Site;” movie night, “Otzi – the Iceman” and the Christmas potluck and gift exchange.

Field Trips – National Trails Day Event, Edelweiss Creek, volunteer day to record the Nez Perce Trail; Little Buffalo Basin, tipi rings/buffalo jump/historic ranches in the Bighorns; and annual picnic at Ewing Snell Ranch

Ancient Trails: No report submitted.

Casper: Programs Presented – Dave Vlcek, “Rock Art of the Hawaiian Islands;” Douglas Cubbison, “Airplane Crashes at Casper Armory Airbase, 1942-1945;” Reid Miller, “Why Historians Need Archaeologists;” Melissa Connely,

“Tracking Through Wyoming: An Introduction to Jurassic Footprints;” Bryon Schroeder, “The 45th Anniversary of the Shirley Basin Excavations: What We Knew Then and What We Know Now;” and Orrin Koenig, “Graffiti of a Different Sort: Thunder Basin National Grasslands Inscription Rock Art Recording Project.”

Cheyenne: Work With Other Organizations – Worked closely with the Northern Colorado Chapter, Colorado Archaeological Society.

Programs Presented – Christopher M Johnstone, “Late Prehistoric Bison Hunting in Northern Colorado and Southern Wyoming;” Dr Richard Adams, “The Shirley Basin Site Revisited by Richard Adams and Bryon Schroeder;” Dr Mark Miller, “Military Sites in Wyoming 1700-1920;” Dr David Shaul, “Alternatives in Numic Prehistory;” Dr Julie Francis, “Game Migrations, Transportation and Archaeology;” Brigid Grund, “The Technological Shift Between Atlatl and Bow, Using a Human Behavioral Ecology Approach Emphasizes Learning Curves and Juveniles;” and Dr Richard Adams, “Moriah Ranch Archaeology.”

Fremont County Chapter: Survey – Ft Thompson Knapp

Testing/Excavation – Ditch Creek Dig, Copper Mountain

Public Education – Central Wyoming College, Legend Rock School Tours

Work With Other Organizations – Central Wyoming College and Legend Rock State Park

Publications/Reports – Printed booklets for the Fremont County Archaeological Society listing 2013 membership, programs and history.

Programs – Bill Sniffin, “Wyoming’s Seven Greatest Natural Wonders;” Dr Danny Walker, “2012 Investigations at Register Cliff, Battle of Red Buttes and Fort Laramie;” Dr Todd Surovell, “The Ethnoarchaeology of Reindeer Herders in Mongolia;” Todd Guenther and CWC students, “Topics in Archaeology” Dr George Frison, “Archaeology;” Craig Bromley and Karina Bryan, “Improvements at Castle Gardens;” Dr Julie Francis, “Trapper’s Point

Game Overpass;” and Larry Amundson, “Utah Rock Art and Ruins.”

June Frison Chapter: Survey – Moriah Ranch in northern Albany County. Bighorn Rock Shelter Project, began survey in Pryor Mountains of Montana; relocated and rerecorded eight of ten shelters on the perimeter of the Pryors.

Testing/Excavation – Tested in front of Last Canyon Cave on the southwestern edge of the Pryors and discovered several thermal features. Dating is pending. Closed units in shelter interior.

Public Education – Held an open house at Hell Gap and provided tours of excavations and the Hell Gap Valley. Flintknapping demonstrations, atlatl contest, and a talk on atlatls, especially as depicted in art.

Work With Other Organizations – Office of State Lands and Investments, Wyoming State Historic Preservation Office, the Frison Institute, and the Guernsey area Recreation Office.

Publications/Reports – Dr George Gill has been working on two books, a large volume dealing with osteological data from Easter Island and a book on West Mexico archaeology will include his osteological dissertation research, with a publication date of 2014. Reports are being prepared for Hell Gap and the Pryor Mountains project.

Programs Presented – Dr Julie Francis, “Archaeological Methods, Rock Art, and the Prehistory of the Bighorn Basin;” Elizabeth Lynch, “Bedrock Groundstone Features on the Chacuacvo, In southeastern Colorado;” Dr Robert Kelly, “10,000 Years of Climate Change and Human Demography in Wyoming’s Bighorn Basin;” Dr Nicole Waguespack, “Clovis Subsistence: How I Ended up as an Overkill Proponent;” Dr Catherine Cameron, “Captives and Culture Change;” Kevin Malloy, “Parks as Complex Landscapes: Using an Informal Model to Rethink the History and Functions of the Medieval Scottish Park Landscape;” and Dr Richard Adams, “Moriah Ranch Archaeology.”

Pumpkin Buttes Chapter – Survey – A field trip to review rock art at 48CA0058 and a field trip to the Hole-in-the-Wall Buffalo Jump Site.

Public Education – Presentation of Reiss Scholarship opportunity to students and faculty at Gillette Campus.

Work With Other Organizations – Members participated in the Native American Artifact Show co-hosted by the Rockpile Museum and the Pumpkin Buttes Chapter where members had their private collections on display and the Chapter was given table space to display membership information. Dr Richard Adams gave a presentation on “High Altitude Archaeological Sites” Chapter members participated in the Pumpkin Buttes and Ruby Site field trip hosted by the Rockpile Museum. Denise Tugman gave a presentation on the history of each of the sites

Programs Presented – “Cher Burgess, “An Update on the Rare Minerals Mine Near Sundance;” and Dr Todd Surovell, “The Ethnoarchaeology of Mongolia’s Reindeer Herders.”

Other – LJ Turner volunteered to serve on the Wyoming Archaeological Foundation Board.

Sheridan-Johnson County: Programs Presented – Jeb Taylor, “Native American Lithics;” Tim Cleary, “Crow and Shoshoni People and How Their Concepts from Each Tribe Were Integrated Into Each Other’s Respective Culture and Creation Legends;” and “How Petroglyph and Pictograph Site Use has Endured and How They Were and Are Manifested by Current People;” Dave McKee, “Historic Muddy Guard Station Restoration Project in the Bighorn Mountains;” Tim Urbaniak, “Rock Art and Historic Inscriptions of the Yellowstone River Travel Corridor;” Colin Ferriman, “Athabaskan Migration;” and Kristin Hare, “Recent Archaeological Work at Yellowstone Lake During 2010 and 2011.

Sweetwater – No report submitted.

Upper Green River Basis Chapter: Survey – Lander Trail post-Fontenelle Fire with Bridger-Teton National Forest; New Fork Island

Historic Park, Lander Trail Crossing; Norton Point post-burn archaeological survey with Dr Larry Todd; Sublette County Homestead Survey (on-going); and magnetometry survey at 1832 Fort Bonneville.

Testing/Excavation – 1859 Alfred Bierstadt Campsite on the Lander Trail; metal detection and follow-up testing on Lander Trail with Bridger-Teton National Forest; and the New Fork Island Crossing Historic Park.

Public Education – Preserve Wyoming, Rawlins; History Day; and Sommers Ranch Historic District Green River Drift National Register Site.

Vandalism Report – LaBarge Bluffs Rock Art Site and Names Hill (listed on National Register of Historic Places) both historic and Native American inscriptions at Names Hill.

Work With Other Organizations – Sublette County Historical Society, Museum of the Mountain Man; Sublette County Historic Preservation Commission; Wyoming State Archaeologist; Wyoming Department of Transportation; Grand Teton National Park; and Bureau of Land Management, Kemmerer and Rock Springs offices.

Publications/Reports – “Lithic Sources in Wyoming’s Upper Green River Basin” by Anne S Dowd and David Vlcek, *North American Archaeologist*, Vol 34, #4, 2013.

Programs Presented: David Vlcek, “Introduction to Hawaiian Rock Art;” “Wayde Haakenson, “Historic Beads and Their Manufacture;” and Clint Gilchrist, “Results of the Bierstadt Site Investigations, 2013.”

Other – Planning and preparation for hosting the 2014 Wyoming Archaeological Society annual state meeting and the Wyoming Association of Professional Archaeologists semi-annual meeting.

WYOMING ARCHAEOLOGICAL SOCIETY, INC.
 Treasurer's Report for Fiscal Year Ending March 31, 2014
 RELIANT FEDERAL CREDIT UNION

CHECKING ACCCOUNT	INCOME	EXPENSES	BALANCE
Beginning Balance	\$6,363.43		
Deposits	\$13,668.44		
Interest Earned	\$3.34		
TOTAL INCOME - Checking			\$20,035.21
 EXPENSES			
Merback Awards - Trowel Engraving		\$29.35	
Modern Printing - Mailing		\$52.00	
Wyoming Archaeological Foundation - Annual Dues		\$327.00	
Wyominghistory.org - Donation		\$500.00	
David Whitley - Honorarium		\$300.00	
David Whitley - Airfare		\$595.30	
Wyoming Archaeology Awareness Month		\$250.00	
Katie Johnson - Reiss Scholarship		\$1,000.00	
Jennifer Black - Mulloy Scholarship		\$500.00	
Jozlynn Hall - Mulloy Scholarship		\$500.00	
Madeline Mackie - Frison Scholarship		\$500.00	
Allison Grunwaldd - Jenson/Robson Award		\$250.00	
Sweetwater Chapter - Dues Overpayment		\$119.00	
David Whitley - Expenses		\$286.89	
Colorado State University - Vender Table Fee - Plains Conference to sell journals		\$50.00	
Katie Johnson - Reiss Scholarship - UW Match		\$1,000.00	
Jennifer Black - Mulloy Scholarship - UW Match		\$500.00	
Jozlynn Hall - Mulloy Scholarship - UW Match		\$500.00	
Madeline Mackie - Frison Scholarship - UW Scholarship		\$500.00	
Les Brown - Institute Scholarship - UW Match		\$500.00	
Allison Grunwald - Jenson/Robson Award - UW Match		\$750.00	
United States Postal Service - Postage		\$92.00	
Colorado Department of Revenue - Sales Tax License - to sell journals at Plains Conf		\$8.00	
City of Loveland, Colorado - Sales Tax - from sales of journals at Plains Conference		\$18.51	
Colorado Department of Revenue - Sales Tax - from sales of journal at Plains Conference		\$21.00	
Keari Counts - Trowel		\$9.00	
SAA - Annual Dues		\$30.00	
United States Postal Service - Postage		\$230.00	
Reliant Federal Credit Union - Checks		\$12.50	
Wyoming Secretary of State - Annual Corporation Dues		\$25.00	
Bryon Schroeder - Honorarium - Reimbursed by Casper Chapter		\$100.00	
United States Postal Service - Bulk Permit		\$500.00	
Danny Walker - Labels, paper, envelopes for spring meeting		\$75.75	
UW Copy Center - Journal Printing		\$1,674.00	
Modern Printing - Mailing		\$104.00	
TOTAL EXPENSES		\$11,909.30	
ENDING BALANCE - Checking Account			\$8,125.91
 SAVINGS ACCOUNT			
BEGINNING BALANCE		\$126.75	
Interest Earned		\$0.12	
Withdrawal (Canadian Exchange)			\$1.86
ENDING BALANCE			\$125.01
 PETTY CASH			
BEGINNING BALANCE		\$200.00	
Disbursements - labels, paper, printer ink, 9 x 13 envelopes, mailings			\$200.00
ENDING BALANCE			\$-
 MONEY MARKET ACCOUNT - 0040			
BEGINNING BALANCE		\$7,777.85	
Interest Earned		\$7.78	
ENDING BALANCE			\$7,785.63

MONEY MARKET ACCOUNT - 0041 (BLM)		
BEGINNING BALANCE	\$9,270.03	
Interest Earned	\$9.29	
ENDING BALANCE		\$9,279.32
Total available after March 31, 2011 = \$7,204.71 for Big Horn Basin projects, digitization, and report-writing		
 CERTIFICATE OF DEPOSIT - 00100		
BEGINNING BALANCE	\$44,266.79	
Interest Earned	\$457.93	
ENDING BALANCE		\$44,724.72
 CERTIFICATE OF DEPOSIT - 0101 - Reiss Account		
BEGINNING BALANCE	\$12,362.11	
Interest Earned	\$39.39	
ENDING BALANCE		\$12,401.50
 TOTAL NET WORTH AS OF MARCH 31, 2013		
Total Income	\$94,351.39	\$82,442.09
Total Expenses	\$11,909.30	
Net Increase (Decrease)		\$2,275.13
 iGIVE ACCOUNT		
Included in checking income.		
Beginning Balance	\$21.77	
Deposits	\$14.85	
ENDING BALANCE		\$36.62

/s/ Carolyn M Buff
Executive Secretary/Treasurer

**MINUTES
WYOMING ARCHAEOLOGICAL
FOUNDATION BOARD MEETING
Sunday, April 28, 2013**

The annual meeting of the Wyoming Archaeological Foundation Board of Directors was held in conjunction with the Wyoming Archaeological Society Meeting at the Hilton Garden Inn, Laramie Wyoming, 7:30 am. Board members in attendance included Janice Baars (WAF President and Past-President WAS), Barb Nahas (Treasurer), Marcel Kornfeld (Hell Gap Site Manager), George C. Frison (Life-Time Member, ex-officio), Judyth Reed (Member-At-Large), John Laughlin (Member-At-Large) Mark Miller, (State Archaeologist, ex-officio) Bill Scoggin (WAS President, incoming), Larry Amundson (WAS President – outgoing), Todd Surovell (Frison Institute Director), Judy Wolf (guest), Nick Freeland (guest). Leland J. (L.J.) Turner (Member-At-Large - absent).

President Janice Baars called the meeting

to order at 7:38 a.m. L.J. Turner, newly elected member-at-large was absent from today’s meeting.

Minutes of the last meeting: Janice asked if there were any additions, corrections on the 2012 Annual WAF Board Minutes. Hearing none, John Laughlin moved and Larry Amundson seconded a motion to approve the minutes. Passed unanimously by voice vote.

TREASURER’S REPORT

Barb presented and discussed the Treasurer’s Report for Fiscal Year 2012.

Balance in checking as of 04/01/2012	\$4,152.76
Income:	
Henry Jensen Estate (Oil Royalties)	\$2,209.51
WAS Dues Year 2012	\$ 460.50
Jensen Doctorial Award – WAS/WAPA	\$ 500.00
University of Wyoming	

(Doctorial Match)	\$ 750.00
Book royalties	\$ 209.61
Clovis to Cowboy Posters	\$ 30.00
Total Income	\$4,159.62
	\$4,159.62
Expenditures:	
Travelers Insurance	\$1,722.00
Wells Fargo – Safe	
Deposit Box	\$ 10.00
Goshen County Treasurer	\$ 451.25
Wyoming Secretary of	
State-Annual Report	\$ 28.00
Postmaster – Annual PO	
Rental/Postage	\$ 118.50
Jensen Doctorial Award	
Recipient	\$1,500.00
Total Expenditures	(\$3,829.75)
	(\$3,829.75)
Balance In Checking as of	
03/31/2013	\$4,482.63

Reserve Funds

Foundation Operations

Certificate of Deposit #6026430 (a/o	
04/01/2012)	\$13,890.88
Interest Paid 2012/2013	\$ 6.89
Balance Ending (a/o	
03/31/2013)	\$13,897.77

Money Market Account #20098502

(a/o 4/1/2012)	\$15,842.27
Interest Paid 2012/2013	\$ 17.78
Balance Ending (a/o	
03/31/2013)	\$15,860.05

Foundation Operations

Sub-Total \$29,757.82

Henry E. Jensen Trust

Certificate of Deposit #6015170	
(a/o 04/01/2012)	\$18,794.61
Interest Paid 2012/2013	\$ 9.84
Balance Ending (a/o	
03/31/2013)	\$18,804.45

Certificate of Deposit #6213161

(a/o 04/01/2012)	\$ 5,592.18
Interest Paid 2012/2013	\$ 2.76

Balance Ending (a/o	
03/31/2013)	\$ 5,594.94
Jensen/Robson Research Grant	
Certificate of Deposit #6015170	
(a/o 04/01/2012)	\$21,119.70
Interest Paid 2012/2013	\$ 9.85
Balance Ending (a/o	
03/31/2013)	\$21,129.55
Jensen Trust Sub – Total	
	\$45,528.94
George Frison Endowment	
Money Market Account #20098502	
(4/1/2012)	\$ 39,903.00
Interest Paid 2012/2013	\$ 35.00
Deposits 2012/2013	\$ 62,270.00
Withdrawal 2012/2013	(\$102,208.00)
Balance Ending (a/o	
03/31/2013)	\$ 0.00
Endowment Sub-Total	
	\$ 0.00
Total Net Worth as of	
March 31, 2013	
	\$79,769.39

Mark moved, Judyth seconded that we accept the treasurer’s report. Motion carried unanimously by voice vote.

This year’s audit was completed by Judyth Reed, Janice Baars, and Larry Amundson. The books were reported to be in order. Mark moved and John seconded that we accept the auditor’s report. Motion carried unanimously by voice vote. Volunteers for next year’s audit committee are Judyth Reed, Larry Amundson, and Bill Scoggin.

Correspondence: none

OLD BUSINESS

Foundation Stationery: Barb reported that we are waiting for the final stationary design from B. J. Earle. Barb reports that she is running out of stationary. Therefore, if she doesn’t receive anything from BJ by the time she leaves for Alaska (July), she will email other possibilities to the board, so we can vote on a new logo.

Foundation Inventory: Barb made a trip to Laramie and looked at the material housed at the

UW Archaeological Repository, with Marcel, and others. Barb is impressed with the curation of WAF material at UWAR. She found it to be very well organized and easy to work in. As a result, Barb recommends that we let the collection stay in the UWAR, rather than trying to do a separate inventory of the material. Barb will organize the records that she has in Cody using the same system used by the repository. In addition to boxes at her house, WAF has a safe deposit box in Cody; the box contains deeds, Certificates of Deposit, and the Jensen/Robson Trust. Barb and Eva Peden each have keys to the box. Marcel has information on publications written about the Hell Gap site. Marcel has just revised the list of theses, dissertations, publications, and other work completed on Hell Gap written since UW started working there in the 1990s. The list is available on the Advanced Archaeological Field Studies (ANTH 5180) web site or from Marcel. The board discussed the possibility of scanning these documents so they could be accessed more easily. Larry Amundson wondered where the title insurance for the property is kept. Barb said she will look to see if the document exists in the collection.

NEW BUSINESS

Hell Gap:

Condition Report: Marcel noted that while UW and WAF made some disability access improvements to the house and trailer a few years ago, these improvements were done in a haphazard fashion. Plans are underway to improve the access and work on other maintenance aspects of the house and lab-trailer at Hell Gap between May 22nd and June 1st. Barb Nahas, Stewart Keiry, Eva Peden, Don Peden, Nick Palmer, Mary Lou Larson, and others have offered to help.

2013 Excavations: Excavation plans for this summer include field sessions starting July 2nd thru August 12th. The primary goal is to begin excavations in the area known as Locality IE (one east). The area is a critical part of Hell Gap research, because of existence of an

old channel that cut through much of the area at some time in the Holocene period. Marcel also discussed Locality IV which is subject to erosion and other threats. The plan would be to do some excavations there in the future. Part of the excavation team will include members of UW's ANTH's 5180, Archaeological Field Studies course, taught by Marcel.

This area at Locality IE where excavations are planned this summer is outside of the existing structure and there is a need to cover the area of excavation. Marcel and Stewart estimate that the cost for the structure will be around \$2000. The original structure was funded by UW and private funds. Barb moved, Mark seconded that the Board add \$1000 to help with this extension. Motion carried unanimously by voice vote. Marcel reminded the board that it had approved funding last year of \$1000 to purchase between 20-30 steel posts and to fix the autogate. Due to health problems, the work was not completed. Barb states that the money will be available to complete the repairs whenever they can be done. Finally, plans are in the works to paint the house.

Marcel mentioned that when he took Charlie Hacker (NPS), Judy Wolf (SHPO), and Nick Freeland (SHPO) on a tour of the site to show Charlie the site and discuss the National Historic Landmark nomination that the group observed many more tipi-rings and a cairn in the vicinity of the tipi rings on the southwestern edge of the property (just south west of Locality II). Judy mentioned that a future plan would also be a detailed map and survey of the stone circles.

Discussion centered on doing a simple map of the rings to document them. One possibility would be to do a drone survey, another to use the total station to map circle locations.

Hell Gap National Historic Landmark Nomination: Judy Wolf reported on the progress of the nomination. Since last year, the Park Service has approved the briefing statement. SHPO hired Nick Freeland to write the nomination,

which he completed this past fall. He received advice (editorial and subject advice) from Mary Lou and Marcel. The nomination is currently under review with the Park Service. Judy does not anticipate that it will be approved until late this year or next year. The nomination focuses on Localities I and II, arguing that the most significant portions of the site and the ones we know the most about are there. Richard Collier from the SHPO office did photos of the area for the nomination.

FRISON INSTITUTE:

Todd Surovell has been interim director of the Institute this year while Bob Kelly was on sabbatical, and he will take over officially as Director of the Institute for a three year term in Fall 2013.

Todd reported that the Institute through help from the Foundation has made their second \$100,000 fund raising goal for the Institute Endowment. This money will be matched by the state, giving the Institute approximately \$455,000. These funds will earn 3.75% interest/year. This will produce approximately \$17,000/year within two years to support archaeological research. Todd reports that annual operating expenses for the Institute are ~\$5,000, most of which is spent on the Fall Frison Institute meeting and lecture. This year the Institute has focused on funding student research including Brigid Grund, a PhD student who will be in Mongolia to identify evidence for children in the archaeological record. Allison Grunwald (PhD student) will study impact and cutmarks on frozen bison bone. Heather Rockwell (PhD student) received funding for her microwear analysis of Paleoindian projectile points from the east coast, and Mary Prasciunas received funds for work at UP Mammoth. The Institute also provides yearly support in the form of the Rhoda O. Lewis non-traditional student scholarship (split between Rachael Shimek (MA student) and Les Brown (PhD student). Brian Schroeder (University of Montana PhD student) received funding for Thermoluminescence dates

from the Alpine Archaeological Fund on pottery from High Rise Village (Fremont County, WY).

Todd announced that there will be a fund raiser August 3, 2013 in Dubois for the Alpine Archaeology Fund. This fund is designated for support of alpine research in Wyoming.

Todd asked the Board for a donation of \$5000 to the Institute. Discussion centered on fund availability and the mission of the foundation. Mark Miller moved and Barb Nahas seconded that the Board approve a \$5000 donation to the Institute. Motion carried unanimously by voice vote.

JENSEN RESEARCH GRANT APPLICATIONS

John Laughlin and Todd /Surovell were asked to leave the room because of their conflicts of interest with the grants.

The board discussed the grant applications from Todd Surovell (Wold Ranch Buffalo Jump Project), Richard Adams (Moriah Ranch Archaeological Pilot Project), and Sarah Trabert (Social Identities beyond the Colonial Core). Larry Amundson and Barb Nahas seconded that the \$1000 grant be given to Todd Surovell, Motion carried unanimously by voice vote.

Election of officers: Barb nominated Judyth Reed as President and Mary Lou Larson as Secretary. Mark seconded. Janice asked the Board to accept the slate of officers. (Barb is treasurer by appointment by the board therefore no nomination necessary. She is considered member-at-large of WAS without a term on the WAF Board).

ANNOUNCEMENTS

Jensen Travel Funds

One PhD graduate student from UW was awarded the Jensen/Robson Doctoral Travel Award for 2013. WAS, WAF and WAPA all participate in the funding for the Jensen/Robson Doctoral Travel Award at \$250.00 each. Allison Grunwald received \$750 from the fund this year. The University of Wyoming President's Office will match the total amount of the award (\$750.00) per discussions between Tom Bu-

chanan (UW President) and Mark Miller.
Summer WAS meeting: Hell Gap, July 19-21, 2013.

Frison Institute/Wyoming Archaeology Month Lecture and WAS fall meeting: Laramie, September 26.th Dr. Vance Holliday will present the lecture.

Next Foundation Meeting: The next WAS Spring Meeting and WAF Foundation Board meeting will be held at Pinedale Wyoming, hosted by the Upper Green River Basin Chapter, in early May 2014.

Mark Miller moved and Barb Nahas seconded that the meeting be adjourned. Motion carried unanimously by voice vote. (9:47 am).

WAF Board Members 2012-2013:

Janice Baars (WAF President, WAS Immediate Past President)

Barb Nahas (WAS Member at large –Treasurer, ex-officio)

Mary Lou Larson (Secretary, University of Wyoming, ex-officio)

Mark Miller (State Archaeologist, ex-officio)

Larry Amundson (WAS President)

John Laughlin (Member-at-Large – Term Expires 2013)

Judyth Reed (Member-at-Large – Term Expires 2014)

George C. Frison (Lifetime member)

Marcel Kornfeld (Hell Gap Site Manager) – non-voting

Todd Surovell (George C. Frison Institute) – non-voting

WAF Board Members 2013-2014:

Judyth Reed (WAF President, Member-at-Large – Term Expires 2014)

Barb Nahas (WAS Member at large –Treasurer, ex-officio)

Mary Lou Larson (Secretary, University of Wyoming, ex-officio)

Mark Miller (State Archaeologist, ex-officio)

Bill Scoggin (WAS President)

Larry Amundson (WAS Immediate Past Presi-

dent)

L. J. Turner (Member-at-Large – Term Expires 2015)

George C. Frison (Lifetime member)

Marcel Kornfeld (Hell Gap Site Manager) – non-voting

Todd Surovell (George C. Frison Institute) – non-voting

MINUTES

**WYOMING ARCHAEOLOGICAL
FOUNDATION BOARD MEETING**

Sunday, May 4, 2014

The annual meeting of the Wyoming Archaeological Foundation Board of Directors was held in conjunction with the Wyoming Archaeological Society Meeting at the Pinedale Library/Conference Center, Pinedale Wyoming. Board members in attendance included Judyth Reed (president of the board and WAS member-at-large), Larry Amundson (WAS president – outgoing), Judy Wolf (WAS president-incoming), Bill Scoggin (WAS immediate past president and WAS member), Barb Nahas (Treasurer), Dave Vlcek (WAS member at-large) George C. Frison (life-time member, ex-officio), Mary Lou Larson (WAF Treasurer and UW Anthropology department representative, ex-officio), Mark Miller, (State Archaeologist, ex-officio. Marcel Kornfeld (Hell Gap site manager- non-voting), Todd Surovell (Frison Institute Director, non-voting). Leland J. (L.J.) Turner (member-at-large) was unable to attend the meeting. Others in attendance included Janice Baars (guest), Barb Ford (guest), Nick Freeland (guest).

President Judyth Reed called the meeting to order at 7:25 a.m. Judyth asked if there were any additions or corrections to the 2013 WAF Board Meeting minutes. Barb Nahas moved and Judy Wolf seconded a motion to approve the minutes with one minor change. Motion passed unanimously by voice vote.

Judyth asked if there were additions to

the agenda. Barb requested that the the board review and verify the scholarship guidelines. Mark Miller thanked the foundation for the weather station gift he received last night.

TREASURER’S REPORT

Barb presented and discussed the Treasurer’s Report.

Financial Statement	
Fiscal Year 2013 / 2014	
Balance In Checking as of	
04/01/2013	\$4,482.63
Income:	
Henry Jensen Estate (Oil Royalties)	\$2,528.61
University of Wyoming (Doctoral Match)	\$ 750.00
Jensen Doctorial Award – WAS/WAPA \$	500.00
Book Royalties	\$ 128.49
WAS Dues 2013	\$ 327.00
Clovis to Cowboy Posters	\$ 75.00
Hell Gap Donation	\$ 500.00
Michael Toft	\$ 500.00
Total Income	\$5,309.10
	\$5,309.10
Expenditures:	
Travelers Insurance	\$1,752.00
Wells Fargo – Safe Deposit Box	\$ 10.00
Goshen County Treasurer	\$ 453.08
Wyoming Secretary of State – Annual Report	\$ 25.00
Postmaster – Annual P.O. Rental / Postage	\$ 74.00
Frison Institute	\$ 500.00
Jensen Doctorial Award	\$1,500.00
Jensen Research Grant	\$1,000.00
Hell Gap Expenses	\$1,128.96
Total Expenditures	(\$6,443.04)
	(\$6,443.04)
Balance In Checking as of 0	
3/31/2014	\$3,348.69

Reserve Funds

Foundation Operations

Certificate of Deposit	
#6026430 (a/o 04/01/2013)	\$13,897.77
Interest Paid 2013/2014	\$ 6.90
Balance Ending (a/o 03/31/2014)	\$13,904.67

Money Market Account

#20098502 (a/o 04/01/2013)	\$15,860.05
Interest Paid 2013/2014	\$ 5.81
Withdrawal April, 2013	(\$ 5,000.00)
Balance Ending (a/o 03/31/2014)	\$10,865.86

Foundation Operations

Sub-Total	\$24,770.53
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Henry E. Jensen Trust

Certificate of Deposit	
#6015170 (a/o 04/01/2013)	\$18,804.45
Interest Paid 2013/2014	\$ 9.84
Balance Ending (a/o 03/31/2014)	\$18,814.29

Certificate of Deposit

#6213161 (a/o 04/01/2013)	\$ 5,594.94
Interest Paid 2013/2014	\$ 2.76
Balance Ending (a/o 03/31/2014)	\$ 5,597.70

Jensen / Robson Research Grant

Certificate of Deposit	
#6015170 (a/o 04/01/2013)	\$21,129.55
Interest Paid 2013/2014	\$ 9.85
Balance Ending (a/o 03/31/2014)	\$21,139.40

Jensen Trust Sub-Total	\$45,551.39
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Total Net Worth as of	
March 31, 2014	\$73,670.61

Barb explained the budget and noted that interest rates on Certificates of Deposit, checking, and Money Market Account, the recession, trouble in the Middle East, the Fiscal Cliff, an election year and no approval of a Federal

Budget all led interest rates on WAF accounts to decline.

This year's audit was completed by Judyth Reed (chair), Larry Amundson, and Bill Scoggin. The books were reported to be in order. Mark moved and Larry seconded that we accept the auditor's report. Motion carried unanimously by voice vote. Volunteers for next year's audit committee are Mary Lou Larson, Dave Vlcek, and Bill Scoggin.

Correspondence: Barb noted that she had received a very nice letter from Dean B. Oliver Walter (UW College of Arts and Sciences) recognizing Mary Lou Larson, George Frison, and Marcel Kornfeld for their service to the state. Judyth asked where letters of support such as this and others go. Barb noted that they should go in the archives at the UW Archaeological Repository.

OLD BUSINESS

Foundation Stationery: Barb has contacted B. J. Earle about the stationary and reported that B. J. has not come up with a design over the last year. As a result, Barb found four different mammoth designs and presented them to the board. Discussion followed about whether or not the board wanted a mammoth for their letterhead. Marcel noted that there is a bugling elk on Prehistoric Hunters and suggested the board consider that design instead of a mammoth. After some discussion, Bill Scoggin moved and Mark seconded that WAF use a mammoth design. Bill called the question and Dave Vlcek called for the vote. The voice vote was narrowly in favor of a mammoth using one of Barb's choices. Bill moved and Larry seconded that we accept the mammoth that received the most votes. Bill called the question. Motion passed. Marcel will give the choice to an illustrator to draw.

Foundation Inventory: Jody Clauter sent the boxes and information concerning the WAF that she had found in the UW Archaeological Repository to Barb. Barb inventoried the boxes and saved the inventory on a flash drive. She

will be able to pull the information if anyone needs it. The list includes information on what the material is and who to contact to obtain it.

NEW BUSINESS

Jensen/Robson Research Grant

Application: The two applicants for 2014 are Sarah Wolff and Dave Eckles. After discussion of the qualification of the applicants including whether they had been members of the Wyoming Archaeological Society (see paragraph below), Mark moved and Judy seconded that we approve Eckles application. Approved unanimously by voice vote.

Grant Guidelines:

The Board discussed the Jensen/Robson grant the guidelines, in particular who is eligible to receive the grant. The grant document currently states that "Any paid member of the WAS is eligible for a grant." The problem is whether or not the board should put a length of time on the membership for WAS. Members of the board expressed concern that applicants had several times in the past joined at the same time they submitted their grant application and never renewed their membership (whether or not they received funding). Barb moved and Mark seconded that we should change our eligibility sentence to include "any paid member of WAS who has been a member of at least three years or a chapter of the WAS is eligible to apply the annual Jensen/Robson Grant application. Motion approved by voice vote unanimously.

Research Grant Reporting Guidelines:

Judyth received an email from a member of WAS asking about follow up in terms of reporting back to the foundation/board on the results of their grant. Discussion centered around whether or not the results had to be published and where, and a time frame for publication. Barb apologized for not following up on this aspect of the grant, although there are currently no guidelines. However, Barb noted that as of today (May 4, 2014), all previous grants are up-to-date. Barb suggested that in the future, the board should send guidelines with the check

which give a deadline for when recipients need to submit a report the Wyoming Archaeologist and a letter to the Treasurer with a project completion report. Barb said that she or Judyth would follow up this year with a request to all past recipients that they submit these documents. The board discussed the ramifications of requiring publication in the Wyoming Archaeologist, given that some grants may not have a report per se to go along with for example a radiocarbon date. Barb and Mary Lou will draw up wording for Barb's letter and then send it out to the board for approval.

Jensen/Robson Doctoral Travel Scholarship:

The board discussed specifying in the guidelines whether or not students who are applying for the Jensen/Robson Doctoral Travel award should be limited to those who are doing research in Wyoming or whether the board should consider any student no matter the location of their research. For example, this year's applicant presented a paper at the Society for American Archaeology meetings about international research that is only very indirectly related to Wyoming. Marcel suggested that we should state "preference given to students presenting on Wyoming/regional archaeology" in our announcement (and guidelines) for the grant. This would allow the board to support students may be the only one applying for the funding. No vote was taken.

Hell Gap:

Marcel Kornfeld, Hell Gap site manager presented a report to the board.

Matthew Martin lease: Matt Martin wants to renew his lease for Hell Gap grazing, as the first five year lease was filed Oct 20, 1999 with Albert Martin (Matt's father) and the board. The last lease covered the time from 2008-2012. The board and Albert had annexed the lease for the last two years.

Matt is applying to the Game and Fish to put grouse on his property and he wants to introduce them on the Hell Gap property as well. Discussion focused on whether or not we should allow sage grouse on the land, and the board decided

that they are not going to allow the introduction of grouse onto the property. Discussion then focused on hunting on the property. Marcel reported that the original lease stated that "hunting access is under the discretion of the lessor," and the board decided to leave the perspective on hunting on the property unchanged. Those who wish hunting access to the land need to call Matt Martin, all other access goes to the site manager or their designee.

Condition Report/Hell Gap Future: Marcel gave a power point presentation to the WAS meeting on Saturday at the WAS meeting and he asked how many people saw his presentation.

Maintenance: Marcel reported that the Anthropology department at UW painted one half of the house/dining hall in 2013 and will complete the painting in summer 2014. The box car (used as the lab at the site) needs a new door; it is either in need of serious repair or it needs to be replaced. Marcel volunteered to fix the door in summer 2014. The air conditioners on the lab trailer do not work and they leak. Marcel will try to seal the leaks. The Board previously approved fixing of the autogate, and it still needs to be done. In fall 2013, Marcel turned the water off to the house, but the faucet did not go off and it flooded the bathroom. He thinks that he'll need to replace some tiles in the bathroom in summer 2014.

Construction: The addition of the shed (roof and walls) over Locality IEast in 2013 has made a big difference to the excavation and the excavators. The board discussed whether or not to erect a larger entrance to the site. Frison reminded the Foundation that it should take pride in the place and construct an entrance that is equal to the importance of the site. Frison recommends a stone entrance and a plaque recognizing the people who helped obtain the site originally. Concern was voiced about such an entrance because the site is not occupied a lot of the time and a big entrance could invite people in to vandalize the site. Others thought that it was very important to write a master plan for

the future of the site. Judy noted that once it is listed as a National Historic Landmark, many grants become available, which could support the building an entrance as well as writing a planning document. In the short term, Marcel said that he will work to plan an entrance, and getting plaques for the National Historic Landmark status, the previous landowners, and those who were instrumental in acquiring the property. Judy, Mary Lou, and Marcel will work on the Master Plan over the next year.

Hell Gap National Historic Landmark (NHL) Nomination: Judy Wolf reported on the progress of the Hell Gap National Historic Landmark (NHL) Nomination. Since 2013, the nomination has been reviewed by two peer reviewers, and it is ready to move to the next stage of consideration. Unfortunately, the National Park Service reviewed a previous draft instead of the most recent one, so there has been some delay. Nick Freeland will work on comparing the different drafts and reconciling them. Once the review stage is complete, a team from Wyoming will have to go to the National Park Service in Washington DC to present the nomination for final consideration. Judy is working on obtaining letters of support from various entities (e.g., local dignitaries, the governor, etc.). Janice Baars will contact Alan Korell about contacting the Goshen County Commissioners. A NHL may not be of great benefit to WAF, but it opens the door for funding from the federal government for planning and other things. However, a part of the Hell Gap property contains federal mineral rights, NHL status theoretically provides more protection from federal undertakings, such as oil and gas development. The Federal government has to accord a NHL much more consideration before it approves development on the property. Any federal agency has to notify the Advisory Council if anything is going to be done such as oil and gas leasing.

Frison Institute: Todd Surovell (Director of the UW Frison Institute) reported that the George C. Frison Endowment is over \$500,000 (This

amount is the historical value (the amount donated), but the market value is \$560,000 (as of Dec 31st 2013)). The endowment has benefited greatly from the state match, which has been facilitated by donations from the WAF. UW has not been interested in obtaining another match for donations coming into the endowment at this point. Todd has submitted a matching proposal to the Wyoming Cultural Trust Fund asking that WCTF match part of Frison Institute fundraising up to \$75,000. Betty Ford suggested that Todd might be interested in talking to people around Pinedale. Todd will contact her for further information.

OTHER BUSINESS

Election of officers:

Barb nominated Dave Vlcek as President and Mary Lou Larson as Secretary. Barb moved and Mark seconded that these candidates be accepted. The motioned carried unanimously by voice vote. (Barb is treasurer by appointment by the board therefore no nomination necessary. She is considered member-at-large of WAS without a term on the WAF Board).

Frison Institute/Wyoming Archaeology Month Lecture and WAS fall meeting: Laramie in September.

Next Foundation Meeting The next WAS Spring Meeting and WAF Foundation Board meeting will be in Fremont County hosted by the Fremont chapter in 2015– date and time to be determined..

Mark Miller moved and Barb Nahas seconded that the meeting be adjourned. Motion carried unanimously by voice vote. (9:00 am).

WAF Board Members 2013-2014:

Judyth Reed (WAF President, Member-at-Large – Term Expires 2014)

Barb Nahas (WAS Member at large -Treasurer)

Mary Lou Larson (WAS Member, WAF Secretary, University of Wyoming representative, ex-officio)

Mark Miller (State Archaeologist, ex-officio)

Bill Scoggin (WAS President)

- Larry Amundson (WAS Immediate Past President)
- L. J. Turner (Member-at-Large – Term Expires 2015)
- George C. Frison (Lifetime member)
- Marcel Kornfeld (Hell Gap Site Manager) – non-voting
- Todd Surovell (George C. Frison Institute) – non-voting

WAF Board Members 2014-2015:

- Dave Vlcek (WAF President, Member-at-Large – Term Expires 2016)
- Barb Nahas (WAS Member at large -Treasurer)
- Mary Lou Larson (WAS Member, WAF Secretary, University of Wyoming representative, ex-officio)
- Greg Pierce (State Archaeologist, ex-officio)
- Bill Scoggin (WAS past - president)
- Judy Wolf (WAS President)
- L. J. Turner (Member-at-Large – Term Expires 2015)
- George C. Frison (Lifetime member)
- Marcel Kornfeld (Hell Gap Site Manager) – non-voting
- Todd Surovell (George C. Frison Institute) – non-voting

GOVERNOR’S PROCLAMATION

WHEREAS, Wyoming’s Cultural Heritage is one of her most enduring assets that influences every corner of the state, and includes a rich archaeological record spanning nearly 13,000 years of human occupation,. Citizens are understandably proud of this legacy, which is Wyoming’s unique signature in the annals of this nation.

WHEREAS, Archaeology is the scientific study of material remains from past human behavior to gain a greater understanding of the tools humans used, the sites they occupied, and the places they called home.

WHEREAS, Knowledge of human

history strengthens the enduring bond between past and present, revealing how our ancestors helped shape the world we live in today.

WHEREAS, Wyoming Archaeology Awareness Month was inspired by public interest in this cultural heritage during the State’s Centennial in 1990. The annual celebration seeks to engage the public in the full spectrum of our cultural legacy through education outreach.

WHEREAS, Wyoming Archaeology Awareness Month this year celebrates the Carissa Mine site, part of the Sweetwater Mining District at South Pass City. It signifies the educational interface of historic research, archaeological science, and public interpretation.

WHEREAS, Mining has long been associated with the cultural history of Wyoming, from prehistoric quarries of chert and quartzite at Spanish Diggings, to gold prospecting at South Pass City. It is an industry that has been with us in one degree or another for thousands of years.

NOW, THEREFORE, I, MATTHEW H. MEAD, Governor of the State of Wyoming, do hereby proclaim September 2014 to be **“WYOMING ARCHAEOLOGY AWARENESS MONTH”**

in Wyoming, and urge the people of Wyoming to take part in the activities planned to enhance public awareness of archaeology.

IN WITNESS WHEREOF, I have hereunto set my hand and caused the Executive Seal of the governor of Wyoming to be affixed this _____ day of _____,

Governor



Governor Matthew Mead, along with people from the Wyoming State Archaeologist’s Office and the Wyoming State Historic Preservation Office, at the 2014 Wyoming Archaeology Month proclamation signing.

**BLM CODY EMPLOYEE
RECOGNIZED FOR EXPERIENTIAL
LEARNING PROGRAM**

In recognition of his exceptional work to enhance public appreciation of our public lands, Bureau of Land Management (BLM) Cody Field Office Archaeologist Kierson Crume was honored with the BLM “Excellence in Interpretation or Education” Silver Award.

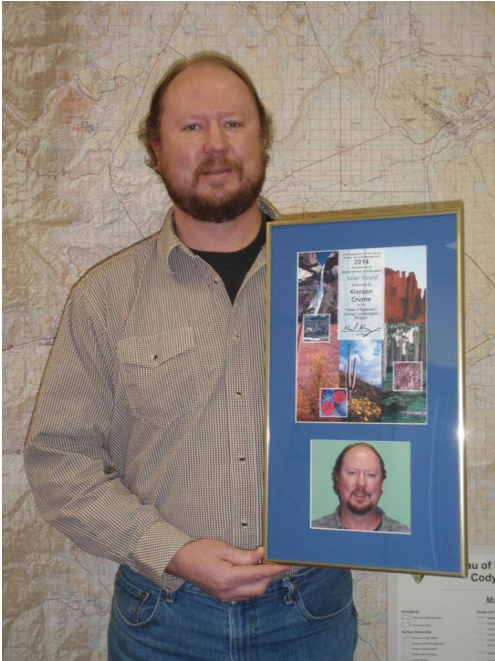
The awards are given annually to outstanding BLM interpreters and educators who conduct programs that enhance public appreciation and understanding of the natural and cultural riches within America’s public lands, as well as management issues in the context of the BLM’s multiple-use mission. This year’s winners were presented with the awards at the National Association for Interpretation’s 2014 workshop in Denver, Colorado.

Crume received his award for helping to implement the “Take it Outside! Living

Landscapes” project, a hands-on, experiential learning program that helps students discover relationships between ecosystem structure and past and present human activities. Throwing an atlatl, building a tipi, heating rocks to boil water in a “skin-lined” hole, and decoding marks found on animal bones are just some of the ways the program helps students in Wyoming’s Bighorn Basin understand they are an integrated part of their ecosystem.

Crume, who has offered the program for the past six years, was quick to credit the invaluable contributions of BLM partners for the success of the program. “None of the successes of the Take It Outside! Living Landscapes program would be possible without the dedication and skilled contribution of our partner, Dr. Larry Todd of the Park County Historic Preservation Commission,” said Crume.

Other program partners include the Park and Big Horn county school districts, Greybull



Kierson Crum receiving the BLM's "Excellence in Interpretation or Education" Silver Award.

River Sustainable Landscape Ecology, Park County Chapter of the Boys and Girls Club, the Yellowstone Behavioral Health Center, and the Meeteetse Parks and Recreation Children's Program.

"The Take It Outside! Living Landscapes program is a valuable component of the Cody Field Office's youth-focused interpretation and environmental education outreach efforts," said Acting BLM Cody Field Manager Delissa Minnick. "We are so proud of Kierson's accomplishments and Dr. Todd's continued support of the program."

The winners were selected from an outstanding group of nominees, who were evaluated on the creativity of their work, and how it:

- enhances the public's awareness of public land resources and their relationship to people;
- provides the public with opportunities to acquire the knowledge, commitment, and skills needed to protect and improve public and private lands;

- helps the BLM accomplish management goals and objectives;

- involves partners; and
- is accessible and sensitive to diverse audiences.

INTERNATIONAL ARCHAEOLOGY DAY MUSEUM ADVENTURE

On October 20th, 2014, the Draper Natural History Museum in partnership with the Bureau of Land Management, the Shoshone Forest Service, the Absaroka Chapter of the Wyoming Archaeological Society, and Dr. Lawrence C. Todd had the first ever International Archaeology Day Museum Adventure at the Buffalo Bill Center of the West. The Museum Adventures are school programs for 3rd -5th grade regional students.

Each participating partner had a specialty station for the different aspects of archaeology. The underlying theme was one of stewardship. The BLM archaeologist and Absaroka Chapter member, Kierson Crum, displayed the timeline of human occupation in Wyoming to the students.

The Shoshone Forest Service archaeologist, Kyle Wright, demonstrated flint knapping and the first toolbox of Wyoming's earliest residents. Amazingly Kyle did not cut himself once!

Sylvia Huber, Ann Marie Donoghue, and Janet Marie Haddix from the Absaroka Chapter of the Wyoming Archaeology Society had a ceramic clinic in which the students were allowed to examine pottery shards and then create a pinch pot of their own to take home.

Dr. Lawrence C. Todd, Absaroka Chapter member, encouraged the students to find their inner bison through a bone biology lab. Using both bison bones and an articulated model of a human skeleton, he showed the students how to locate specific bones on humans and bison.

Bonnie L. Smith, curatorial assistant for the Draper Natural History Museum; Mike Bies, retired BLM archaeologist; and Karina Black, local archaeologist, operated the final station. All are Absaroka Chapter members. Their station focused on rock art of the region,



protection, and conservation. They explained the importance of not damaging rock art. They had the student work on their own community rock art projects with the use of butcher paper and a marker, pointing out that paper is the only place you should ever draw.

This event was registered with the Archaeological Institute of America in Boston, Massachusetts. Ours was one of only two events that took place in the state of Wyoming and the only one with both the educational and stewardship component. Several of our partners were listed as collaborating members with the

American Institute of Archaeology. The event was successful having reached over a hundred local children who will hopefully go forward with a sense of wonder and respect for what our amazing region has to offer both archaeologically and naturally.

And a huge thank you to all of you who gave of your time to make this event happen. See you next year.

For more information or to volunteer for next year's event you can contact Bonnie L. Smith at 307-578-4020 or by e-mail at bonnies@centerofthewest.org.

AN INTRODUCTION TO THE EXCAVATIONS AT THE GARRETT ALLEN SITE (48CR301), CARBON COUNTY, WYOMING

by
David G. Eckles

The Garrett Allen (Elk Mountain) archaeological site is located in southeastern Carbon County, Wyoming at the northern end of the Medicine Bow Mountains and southern edge of the Hanna-Carbon Basin (Figure 1). It is within a homoclinal valley near the perennial Quealy Spring which forms an ephemeral drainage flowing to the north-northwest. The site is surrounded by Upper Cretaceous sedimentary

rocks, including the Steele Shale, Mesa Verde Group (Pine Ridge Sandstone and Allen Sandstone), Lewis Shale and Medicine Bow formation (Hayter 1983:5). Deposits are primarily alluvial, derived from the surrounding geological formations (Hayter 1981:31). The site is at an elevation of 7,360 feet and is covered with dense sagebrush and short grass species.

The site is on private land; part of the Elk

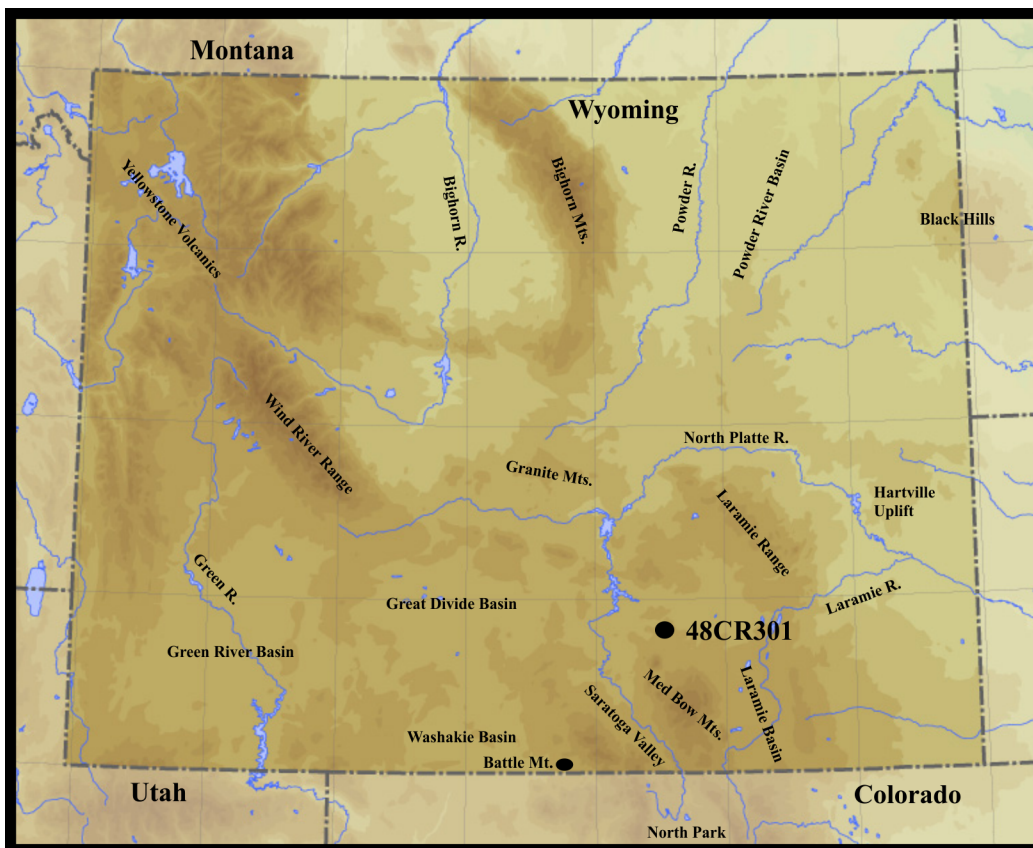


Figure 1: Location of 48CR301 and major geographic features of Wyoming.

Mountain Ranch. It was discovered by Garrett Allen, a member of the Cherokee Trail Chapter of the Wyoming Archaeological Society (WAS), in June, 1968. In the fall of 1968, George Frison (University of Wyoming), Bob Randall (WAS), and several university students established a datum and opened two five-by-ten foot grids. The grid was set up on a north-south and east-west line and units were established on those lines. Only a limited amount of excavation could be accomplished at the time because of a snow storm (Berger 1969:14).

Starting on June 8, 1969 and continuing into 1971, eight five-by-five foot block areas were established and shallow excavations proceeded based on cardinal grid locations (Cherokee Trails Chapter 1970:13). For example, there were grids labeled 0-10N/0-5W, 0-10N/5-10E, etc. Two exploratory trenches were also hand excavated (one on the north-south grid axis and one on the east-west axis. These included both five-by-five foot units and units up to ten-by-five foot. For example, there were units referred to as East-West Trench, 30-35W, and East-West Trench, 35-45E, etc.

Excavation was performed with shovels and trowels. Matrix was screened through one-quarter inch mesh screen. Based on the original catalog cards, levels were excavated (generally) in three to six inch arbitrary increments with relatively large artifacts and bone being point plotted by depth and unit coordinates. Elevation measurements were taken from the surface of the unit.

After these excavations, artifacts were washed, numbered and cataloged using three-by-five inch file cards. A coding system was established which identified artifacts by type. For example the code "PP" was used for projectile points, "S" for scraper, "CT" for cutting tool, "PS" and "PO" for pottery sherds, "BT" for bone tool, "H" for hearth, etc. Flakes were cataloged by lot within a unit and depth under an "F" prefix (Cherokee Trails Chapter 1970:13, Randall 1969:16-18). These index cards are the

primary, and in most cases, the only record of where artifacts were found. It should be noted several catalog cards and artifacts are missing from the collection. There are also duplicated catalog numbers from this time. Some individually bagged artifacts and a few bags of flakes contain no provenience information.

A different cataloging system was used for artifacts and bone collected during the 1979-1980 excavations. It was a sequential numbering system using 38,000 as the beginning number, ending in the high 39,000s. Some faunal remains were catalogued using a "C" prefix followed by sequential numbers. Some of the lithic points and tools recovered from 1968-1978 were recataloged under this system. Within the collection, there remain a large amount of uncataloged items, especially from the 1979-1980 excavations.

Excavations continued from 1971-1978 by the Wyoming Archaeological Society, and often individually by Garrett Allen. Units were excavated primarily in the northwestern quadrant of the site grid, with a few in the northeastern quadrant and southwestern quadrant. These excavations included mostly single one-by-one foot units, many of which formed small, more or less contiguous block areas. The depth of levels excavated appears to have become less standardized and even haphazard. For example, there are excavation levels of four, six, eight, ten, twelve, sixteen and even twenty-four inches in depth. Total depths reached in a given unit could range from six inches to over five feet. Most units were excavated to at least one foot, and many reached four to five feet in depth. Only a few units were excavated below five feet. Recording of artifacts followed the originally established method using catalog cards, with depth again measured from the surface of each unit. It appears all relatively large artifacts and bone were plotted in situ or bagged as a lot by level within a unit or block area, but debitage was not systematically recorded or collected. A few charcoal samples for radiocarbon dat-

ing were taken, but none appear to have been submitted.

An archaeological field school was conducted from 1979 to 1980 by the University of Wyoming Anthropology Department with assistance from the Office of the Wyoming State Archaeologist. These excavations were primarily in the southwestern and southeastern quadrants of the site grid. Several five-by-five foot block areas were excavated as well as a few single or small groups of one-by-one foot units. Most units were excavated to twenty-four inches deep, with a few excavated to thirty inches. Excavation forms were generally filled out for a given unit or block, including both vertical and horizontal coordinates for materials found. A backhoe trench was excavated to test the depth of deposits, establish an area from which to set up block units, and reveal cultural and geologic (soils) stratigraphy. Excavation methodology appears to have been oriented toward excavating in cultural levels. All measurements were taken in inches. Radiocarbon samples were recovered and a number were submitted for dating (discussed below).

Most of the 48CR301 collection is housed at the University of Wyoming Archaeological Repository with a relatively small number of artifacts from the site on display at the Saratoga Museum. An unknown number of artifacts are also in private hands. The collection contains chipped stone, ground stone, ceramics, bone tools and beads, one steatite artifact, manuports of sedimentary, metamorphic and igneous rocks, shell, and faunal remains from the 1968-1980 excavations. There are charcoal samples in the collection which have not been submitted for radiocarbon dating. As many as 55 hearths were recorded according to the catalog cards and field forms available.

The current analysis of the Garrett Allen site collection was started in April, 2013. To date, the chipped stone artifacts and ceramic artifacts have been at least preliminarily examined. As analysis proceeds, it is expected papers describ-

ing the various artifact classes will be submitted for publication.

Previous publications about the site include descriptions of the early excavations in 1969 and 1970 (Berger 1969; Cherokee Trails Chapter 1969; Randall 1970). Analysis of the soils were published in 1981 (Hayter 1981) and 1987 (Reider et al. 1987). Recently, a paper on the research potential of the Garrett Allen collection was presented at the Plains Anthropological Conference in Loveland, Colorado (Clauter 2013). Discussion of several unusual artifacts from the site appears in Frison (1991), including two corner tanged knives, a marine shell, and a large notched biface.

THE EXCAVATIONS

Over 2,600 square feet were excavated between 1968-1980 (see Table 1 for the number of units excavated to the depths specified). For example, there were 2,602 units excavated to a depth of six inches, but only 206 units excavated to a depth of 60 inches. It is not clear how many units were excavated below 60 inches as there are few catalogued artifacts and a small number of uncatalogued artifacts with depth information from 61-100+ inches. One diagnostic artifact was recorded below 60 inches, a corner notched dart point fragment found at a depth of 68 inches. These data are based on the records available: the catalog cards, excavation forms, and field notes. If there were units excavated which contained no cultural remains, it is likely associated records were not retained. Sterile units are likely quite rare given the amount of cultural remains recovered in all areas of the site.

SITE DATING

Several carbon samples were collected during the 1968-1978 excavations, but none were submitted for dating. During the 1979-1980 field school excavations, five carbon samples were taken and submitted for radiocarbon dating. Unfortunately, records of precisely where

Table 1: Units Excavated by Depth, 48CR301

ENDING DEPTH	UNITS EXCAVATED 1968-1978	UNITS EXCAVATED 1979-1980	TOTAL SQUARE FEET EXCAVATED BY DEPTH
6"	1731	872	2603
12"	1422	683	2105
18"	999	529	1528
24"	926	443	1369
30"	769	85	854
36"	725	25	750
42"	551	25	576
48"	406	25	431
54"	275	25	300
60"	181	25	206

these samples were taken have not been found in the associated records. Three additional samples were submitted in November 2013. One sample is from the early excavations and was taken from a five-by-five foot unit (N-S Trench East End) at a relatively tight depth measurement of 44-48 inches. Two samples were obtained from residue on two large ceramic fragments (Table 2).

In the analysis of soils from the site, Hayter (1981:30) correlated four of the dates with his Soil Profile 1, found within the archaeologically excavated area in the southwest quadrant of the site grid (1979-1980 project area). It is assumed Hayter obtained depth information from the archaeological investigations which allowed this correlation. Hayter's Soil Profile 2 appears to have been located at or near the North-South Trench excavated by WAS earlier

in the 1970s. A fifth date appears to have been obtained at a relatively deep location within this trench. The fifth date of 3120+/-250 (RL1420) is not shown on Hayter's Soil Profile maps by depth, but he states this date is from a cultural level above a grey gleyed clay subsoil. Based on his discussion of the soils and one of the profile maps in the field records showing a one foot wide section from which soil samples and a carbon sample were taken, the depth of the 3120 B.P. date is estimated at about 56 inches.

Soil Profiles 3 and 4 excavated by Hayter appear to be outside the archaeologically excavated areas and do not appear relevant to the discussion here. The radiocarbon date of 770 B.P. from Soil Profile 3 appears to be outside of the archeological deposits and will not be discussed further.

At least 55 hearths are documented in the

Table 2: Radiocarbon Dates, 48CR301.

SAMPLE NUMBER	DATE SUBMITTED	RADIOCARBON YEARS B.P. (UNCORRECTED)	AREA OF SITE	DEPTH CORRELATION HAYTER (1981:30)
RL1406	1979-1980	510+/-110	SW Quadrant, 1979-1980	4-5 inches
D-AMS 004548	2013	591+/-25	Ceramic rim sherd residue	Unknown depth
RL1227	1979-1980	630+/-100	SW Quadrant, 1979-1980, Hearth, Level II	8-11 inches
RL1415	1979-1980	770+/-110	Soil Profile 3	23 inches
D-AMS 004547	2013	797+/-33	Ceramic rim sherd residue	8 inches*
RL1228	1979-1980	920+/-110	SW Quadrant, 1979-1980, Level III	17 inches
RL1414	1979-1980	1670+/-120	SW Quadrant, 1979-1980, Hearth	22 inches
D-AMS 004549	2013	2363+/-30	N-S Trench	44-48 inches
RL1420	1979-1980	3120+/-250	N-S Trench	56 inches

*depth of ceramics from catalog cards.

catalog cards and unit forms. These are reported as occurring from 3 to 50 inches below surface. Only those from the 1979-1980 excavations are described in any detail. Radiocarbon samples were taken from several hearths, but only two (see Table 2) have been submitted and assayed.

No specific components were reported from the 1968-1978 excavations, but an attempt to define several components was made during the 1979-1980 project. This includes components referred to as the Upper Ceramic (sometimes referred to as the top ceramic), Below Upper (Top) Ceramic, Woodland, Tang Knife, and Archaic. Based on field forms and unit profiles, these component designations appear to correspond (roughly) to Levels I-V. The probable correlation of the named components and depths is presented (Table 3). As can be seen in the table, depth measurements are variable for each component; the number in parenthesis indicates the maximum depth for a given level.

Field records from the 1979-1980 excavations indicate a complex cultural stratigraphy. There appear to be both localized activity areas and more extensive occupation zones. A profile from the west wall of units 0-5S, 20-30W shows this complexity (Figure 2). Several “cultural levels” are identified, some of which are almost stacked one on top of the other. This profile indicates major occupations from 0-12 inches, 13-18 inches, above and below 36 inches, just below 48 inches and from about 54-60 inches. This fits fairly well with a preliminary count of all chipped stone artifacts, which shows peaks in densities from 0-6, 7-12, 13-18, 19-24, 31-36, 43-48, and 54-60 inches deep. Other unit profiles in the field records show more variation in the configuration of cultural levels, which are generally thinner, a tendency for the cultural levels to dip down slope, and generally thicker sediments between cultural levels. None of the other profiles show the gravel layer seen in unit 0-5S, 20-30W.

Table 3: Named Components and Level Depth, 1979-1980

COMPONENT NAME	LEVEL	LEVEL DEPTH	RADIOCARBON YEARS B.P. BY DEPTH
Upper Ceramic	I	0-4(5) in.	510+/-110
Below Upper or Top Ceramic	II	5-8(11) in.	630+/-100; 797+/-33
Woodland	III	9(11)-17(22) in.	920+/-110
Tang Knife	IV	18(22)-24 in.	1670+/-120
Archaic	V	25-30+ in.	

THE COLLECTIONS

The Garrett Allen site collection contains a diverse assemblage of chipped stone artifacts, ceramics, mammalian faunal remains, bone tools and bone beads, worked and unmodified mollusk shell, ground stone, shaft abraders, manuports of river pebbles and cobbles, flaked and unmodified quartz crystals, pieces of iron and hematite, one small steatite artifact fragment, and several pieces of unmodified fossil bone. Based on the preliminary analysis, there are diagnostic artifacts (projectile points and ceramics) dating the site from the Middle Archaic to the Protohistoric Periods.

Among the remarkable aspects of the collection are the varieties of stone raw materials. There are examples of flint, chert, agate, jasper, chalcedony, petrified wood, orthoquartzite, metaquartzite, quartz, silicified shale, clinker, non-volcanic glass, obsidian, basalt, granite, and sandstone from throughout Wyoming and surrounding states. The diversity of raw material types is present throughout the cultural deposits. There is no knappable tool stone on the site, and all the lithic materials were therefore brought into the site, many from considerable distances.

PROJECTILE POINTS

Four hundred and forty-nine whole and fragmentary projectile points and point preforms were recovered from the excavations, and 286 of these have sufficient attributes suggestive of a type (Table 4). Several points were

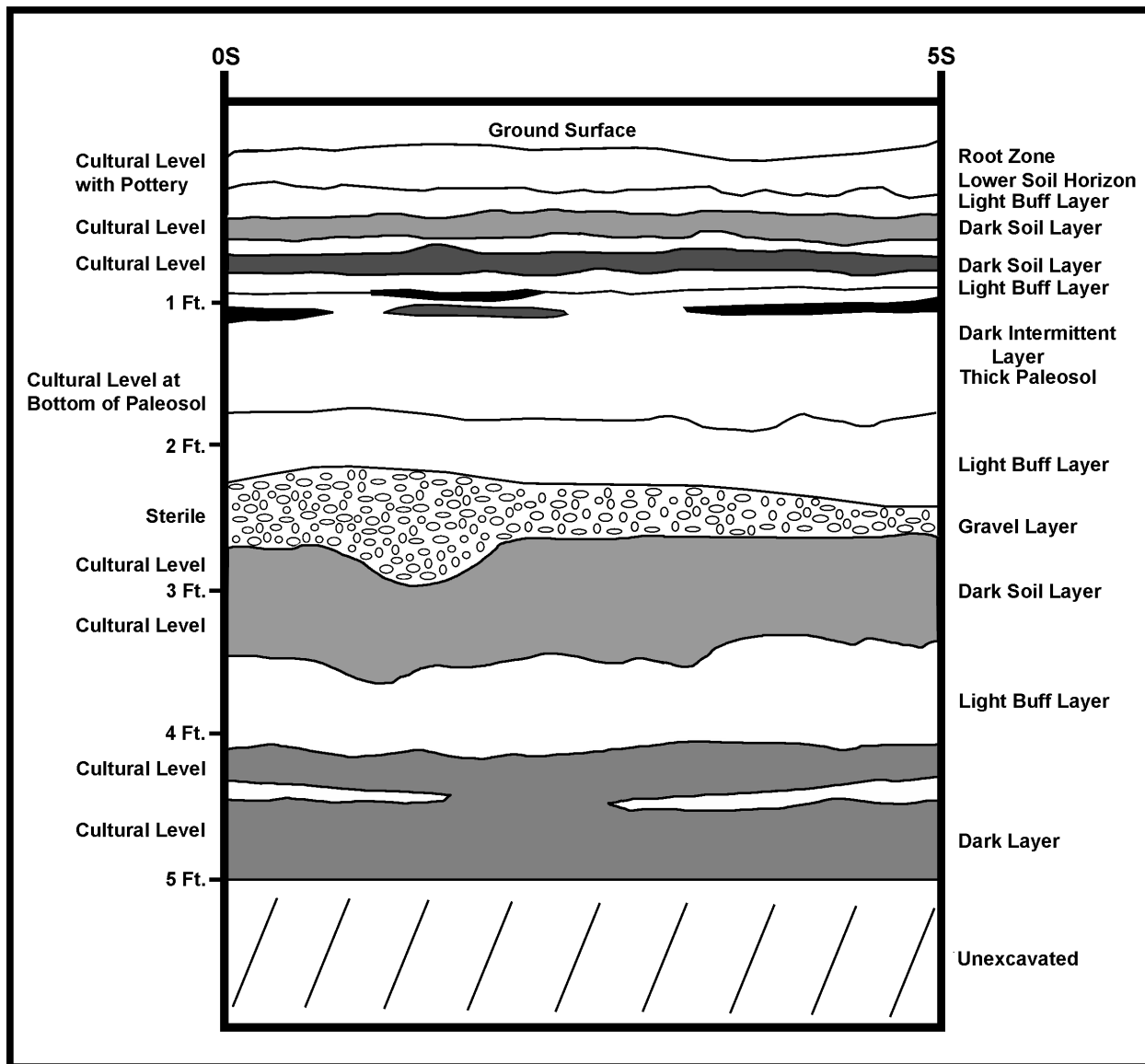


Figure 2: West wall profile at 0-5S/20-30W, 48CR301.

also found on the surface, including three Late Prehistoric side-notched, one Tri-notched, one Rose Springs, one Besant, three Corner-notched dart (Pelican Lake/Elko), two McKean varieties, and one metal point; these are included in the total count of typed points. These examples of the point types are arranged by the depths at which they were located (Figures 3 and 4). Overall, the sequence is what would be expected: as depth increases, the age of the point types also increases.

Of the projectile points, there are relatively large numbers of Plains side-notched,

unnotched (Cottonwood) varieties and corner-notched dart varieties. There are relatively few Tri-notched, Prairie side-notched, Rose Springs, Beehive Avonlea, Besant, and McKean varieties. There is only one metal point.

There is some overlap by depth for the point types identified from the late Late Prehistoric to middle Late Prehistoric and considerable overlap by depth from the middle Late Prehistoric to the Middle Archaic. This overlap may indicate a certain amount of vertical displacement of cultural remains, a common occurrence in stratified sites with multiple components.

Table 4: Diagnostic Chipped Stone Artifacts Identified from 48CR301

TIME PERIOD	TYPE	REFERENCE	DEPTH
Protohistoric	Metal point		0 in.
Late Late Prehistoric	Plains side-notched	Kehoe (1966), Frison (1991), Kornfeld et al. (2010)	0-18 in.
	Tri-notched		0-12 in.
	Unnotched triangular		0-12 in.
	Shoshone Knife		0-8 in.
Middle Late Prehistoric	Prairie Side-notched	Kehoe (1966)	12-18 in.
Early Late Prehistoric to Late Late Archaic	Beehive Site Avonlea Rose Springs	Frison (1991), Bupp (1981), Lanning (1963), Justice (2002)	12-24 in.
Late Archaic	Besant	Wettlaufer (1955), Hughes (1981), Frison (1991)	16-32 in.
Early Late Archaic to Late Middle Archaic	Pelican Lake/Elko corner-notched dart	Wettlaufer (1955), Eakin (1989), Thompson and Pastor (1995)	24-68 in.
Middle Archaic	McKean stemmed	Mulloy (1955), Frison (1991)	46-58 in.

Vertical displacement of artifacts can be caused by human trampling and other activities (see Cooper 2002:7-8). The site contains a relatively large number of hearths at various depths, and it seems possible underlying older cultural remains became incorporated into a later occupation. Other possible explanations for the overlap likely involve cryoturbation (frost heaving), and bioturbation (see Cooper 2002:7-8). The latter is particularly apparent in the field form records from 1979-1980, which indicate animal and insect burrows are quite common. Finally, undulations in the surface of any given unit across the site may have lead to variation in the actual depth of any given artifact or feature as all measurements were taken from each individual unit surface. It is also probable there is variation in the depths of components of the same time period, and similar depths of slightly different aged components.

The Garrett Allen collection also contains 23 “tiny” projectile points included in the count above. Most of these points were found from 0-12 inches below surface with only two from a depth of 36 inches below surface. Some appear to be reworked late Late Prehistoric side notched points. Some are irregular in shape

made on flakes. Most are rather well made tiny projectile points (Figure 5). Some have argued tiny points (especially the poorly made varieties on flakes) are toys (Dawe 1997). Similar tiny points have been found at the late Late Prehistoric Eden-Farson site (Frison 1971).

There are eleven projectile points (not included in the point count above) which have as yet not been firmly identified to type, or can be relatively easily identified to a type found at elevations well outside their expected depth range. The latter situation is likely the result of vertical displacement factors and/or recording error.

CERAMICS

A preliminary analysis of ceramic artifacts from the site was presented by Clauter (2013). Just over 900 ceramic sherds were recovered from the site excavations. Most were found in the upper 24 inches of deposit, from units excavated in the southwestern quadrant of the site grid from 1979-1980. About 35 percent of the ceramic artifacts contain no provenience information; presumably they were found in the northern portions of the site grid.

Two broad categories of pottery have been

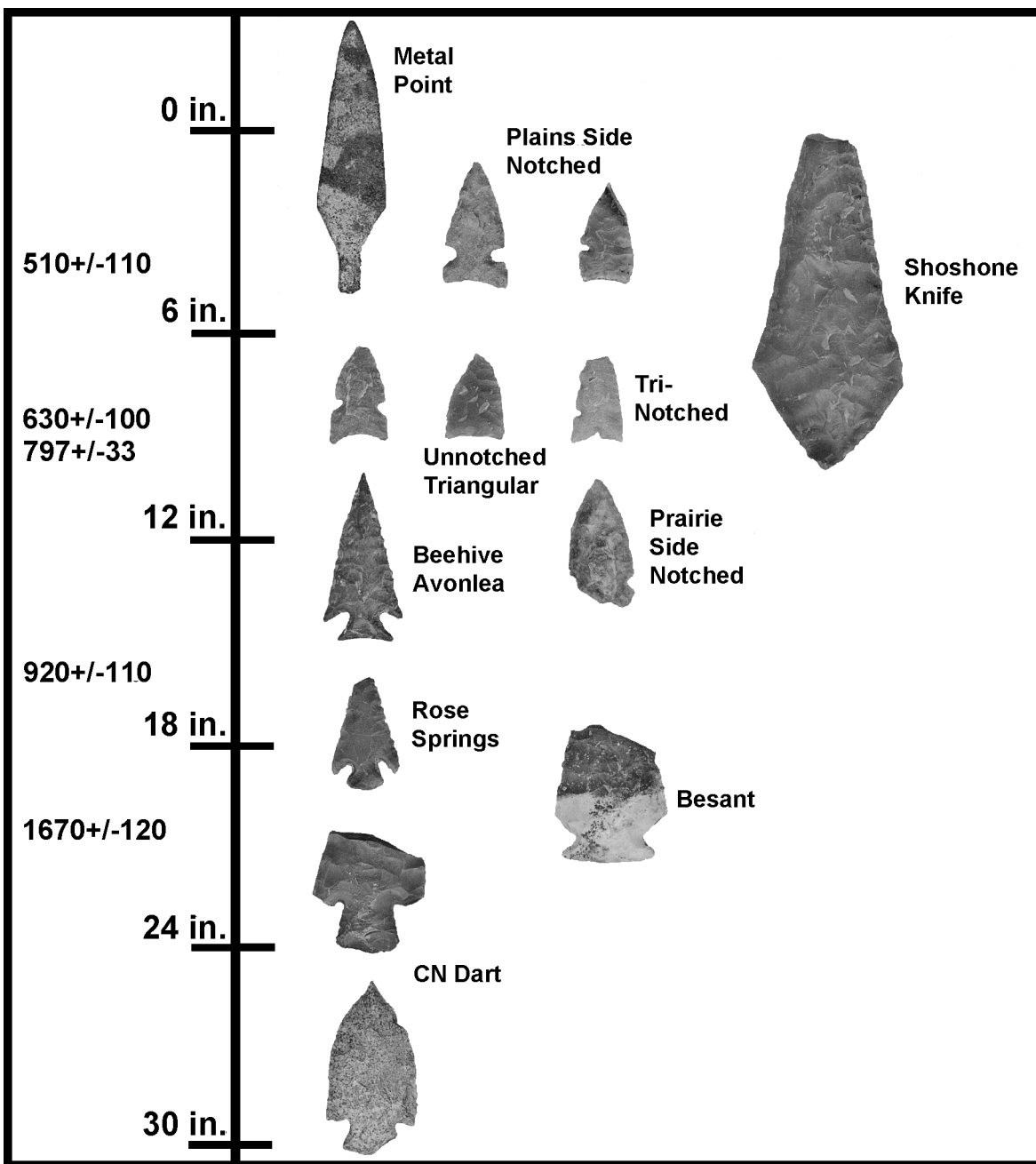


Figure 3: Examples of diagnostics and radiocarbon dates by depth, 0-30 inches, 48CR301.

preliminarily identified based on surface treatment: smoothed and cord impressed. A few of the sherds with smoothed surface treatment contain trailed geometric decoration (Figure 6a-c). Twenty-one rim sherds have been identified, representing at least six vessels (Clauter 2013:6).

A preliminary count by component and

elevation of the smoothed versus cordmarked sherds is shown (Table 5). Although there is a fair amount of overlap, the smoothed sherds are present in the greatest numbers from 0-8 inches deep, while the cordmarked sherds are most abundant from 8-24 inches deep. This trend generally follows the component designations from the field work in 1979-1980.

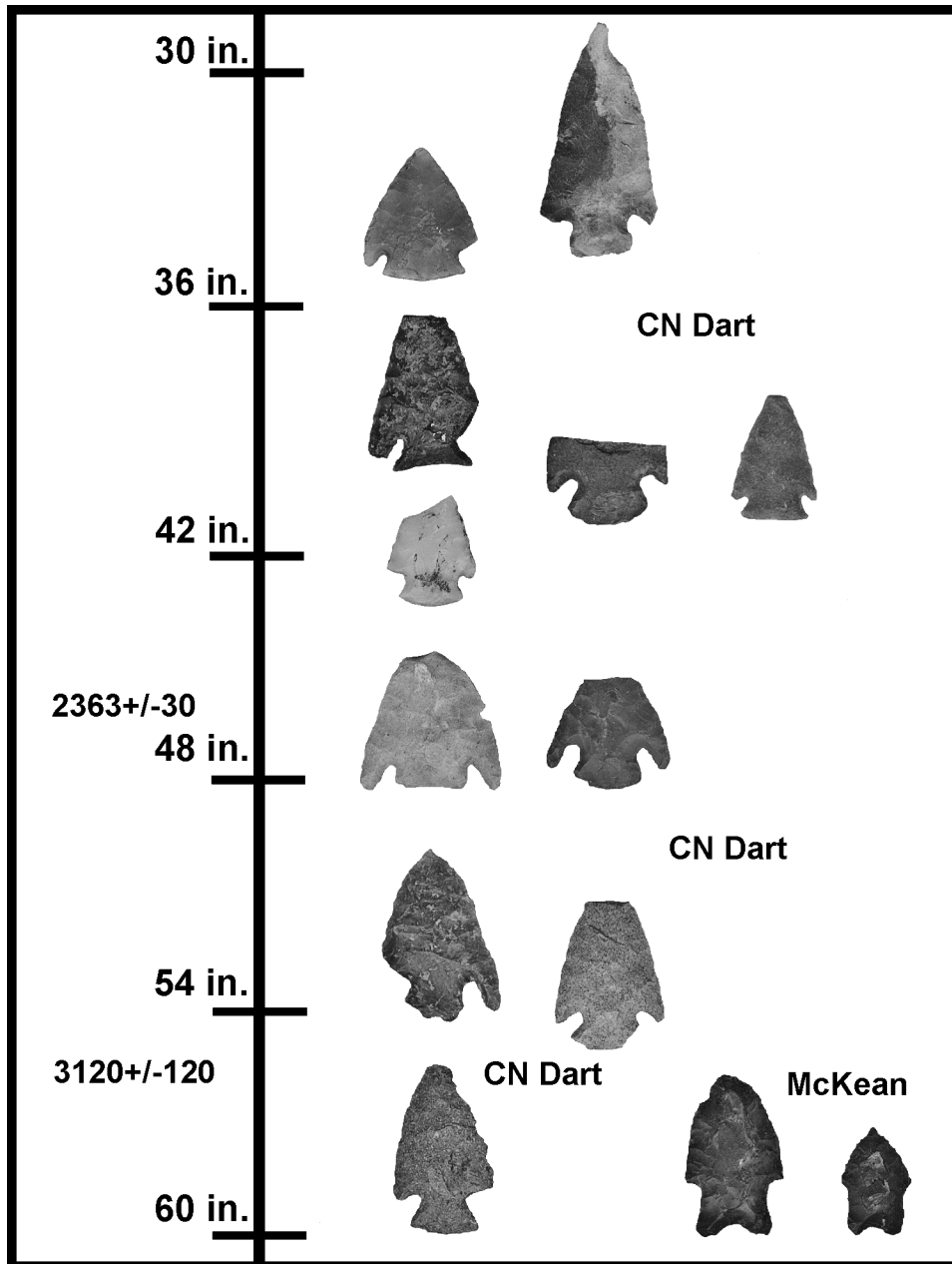


Figure 4: Examples of diagnostics and radiocarbon dates by depth, 30-60 inches, 48CR301.

OTHER ARTIFACTS

Relatively few ground stone artifacts have been recovered from the site. They include granite, metaquartzite and sandstone manos, sandstone metate fragments, and sandstone shaft abraders. There are unmodified manuports (small river pebbles), a few incised and unmodified sandstone pebbles of various colors, cut and

snapped fresh water mollusk shell, bone beads, and incised bone. Quartz artifacts are common in the assemblage and include a large number of unmodified flakes, several retouched pieces, and modified and unmodified pyramidal crystals. Small pieces of ochre, specular hematite and concretionary iron were recovered. One small fragment of a steatite pipe bowl was found in the uppermost level of a unit in the southwestern

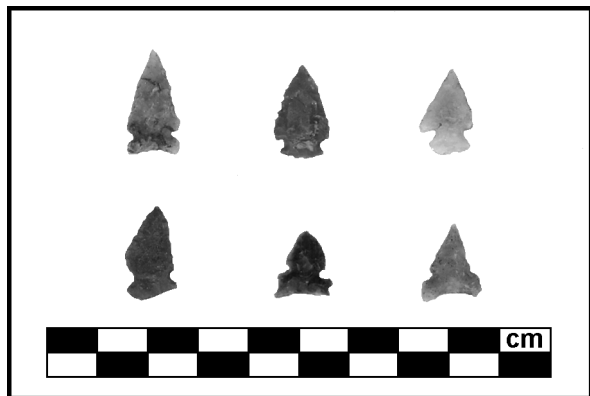


Figure 5: Examples of tiny projectile points, 48CR301.

quadrant of the site grid. It is likely contemporaneous with the late Late Prehistoric arrow points and Shoshone Knife. Atlatl weights of granitic materials were also found. Corner tang bifaces (knives?), a possible ceremonial biface, and a fragment of marine shell are reported from the site (see Frison 1991:133; 355-356). These artifacts classes will be further discussed in later publications.

FAUNAL REMAINS

faunal remains include elements of bison, deer, elk, pronghorn, bear, badger, raccoon, porcupine, canid, pocket gopher, rabbit, bird, and fresh water mollusk. Bone tools, especially awls and knapping tools, appear to be relatively common in the assemblage.

SUMMARY

The Garret Allen site contains a diverse assemblage of chipped stone, ground stone,

ceramic, shell, and bone artifacts spanning at least 3,100 years of Wyoming prehistory. These remarkably diverse artifacts include a large number of projectile points from the Protohistoric to Middle Archaic periods, a great variety of chipped stone raw materials, a diverse assemblage of chipped stone tools, bone and antler tools, some ground stone artifacts, multiple ceramic types, and items often associated with long distance exchange such as the steatite and obsidian. Few sites in Wyoming contain the levels of artifact diversity present at 48CR301, and this makes it a site of great importance for understanding Wyoming prehistory.

ACKNOWLEDGMENTS

Many thanks are due Jody Clauter and Mark Lane of the University of Wyoming Archaeological Repository. They were of great assistance with the 48CR301 collections and associated field and laboratory documents. Jody also provided the ceramic figures and preliminary ceramic analysis. George Frison, Mark Miller, Danny Walker, and Charles Reher provided background information about the excavations at the site. Steven Sutter and Shane McCreary of the Wyoming State Historic Preservation Office, Cultural Records Office assisted with locating information in the database on dated sites with diagnostic artifacts. Wayne Sutherland of the Wyoming State Geological Survey assisted in the identification of several the lithic raw materials. Recent radiocarbon dating was funded by a grant from the Frison Institute at

Table 5: Number of Individual Sherds by Component and Depth.

COMPONENT	LEVEL	LEVEL DEPTH	SMOOTHED SURFACE	CORDMARKED SURFACE	RADIOCARBON YEARS B.P. BY DEPTH
Upper Ceramic	I	0-4(5) in.	50	5	510+/-110
Below Upper Ceramic	II	5-8(11) in.	197	24	630+/-100; 797+/-33
Woodland	III	9(11)-17(22) in.	10	61	920+/-110
Tang Knife	IV	17(22)-24 in.	1	12	1670+/-120
Archaic	V	25-30 in.		1	

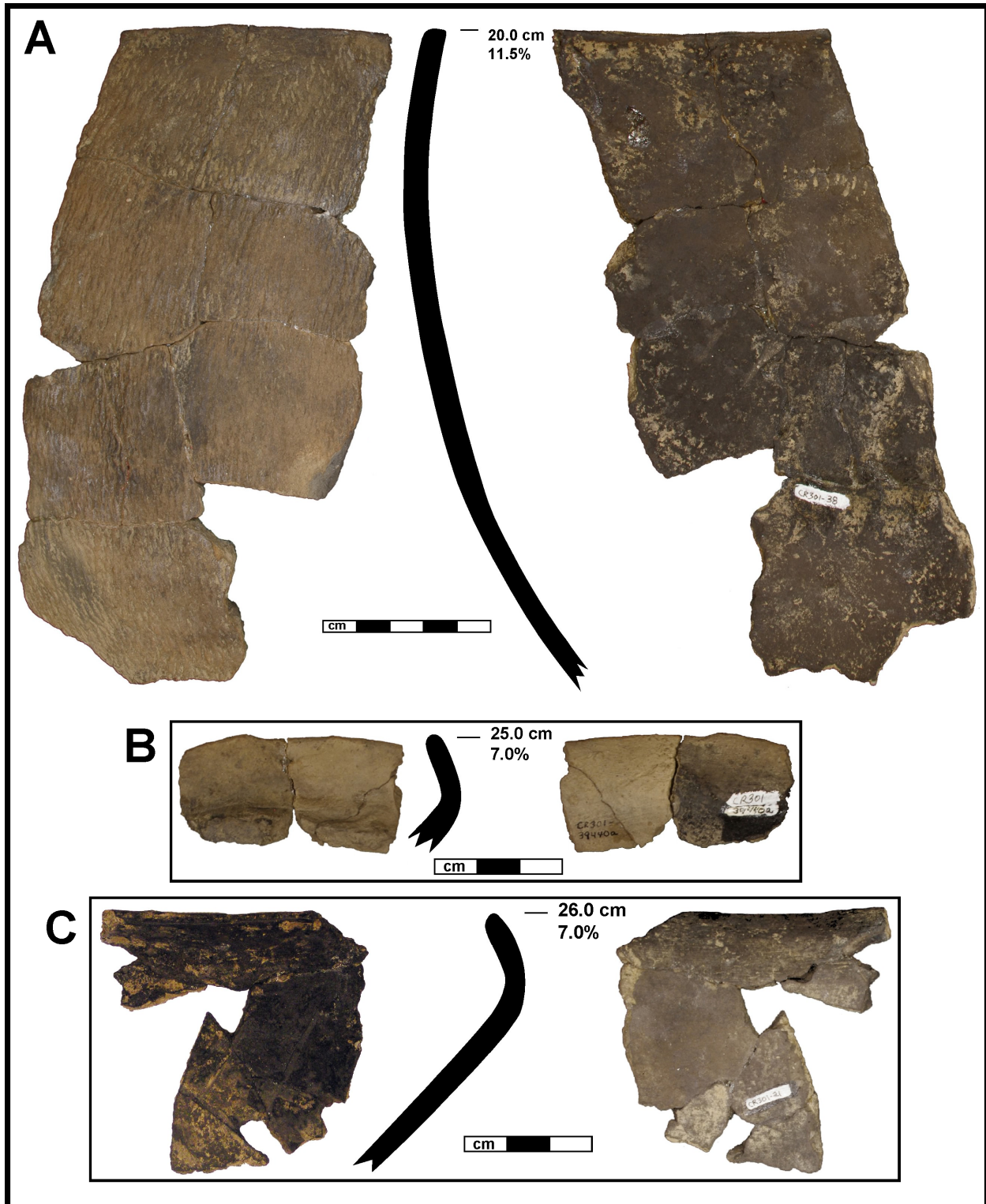


Figure 6: A: Undecorated cord impressed rim and body sherds. B: Undecorated rim sherds with smoothed surface treatment. C: Rim sherds with trailed decoration and a smoothed surface.

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**EXCAVATION AT FOUR SITES (48SW7456,
48SW7457, 48SW15052, AND 48SW17323)
WITHIN THE BRIDGER COAL COMPANY UNDER-
GROUND MINE LEASE AREA**

by

Susan Murray, Matthew Kautzman, and Stacy R. Goodrick

ABSTRACT

Data recovery excavations were conducted during the 2010 field season by Western Archaeological Services at four prehistoric sites located within the Bridger Coal Company Underground Lease area. These sites include the Paired Feature site (48SW7456), the Kindra site (48SW7457), the Jake Roble site (48SW15052), and the North Side Playa site (48SW17323). The project area is located in southwest Wyoming within the Deadman Wash drainage system in the western portion of the Wyoming Basin. The area is xeric and rugged with deeply cut draws, broad benches, and high rocky ridges. The excavations revealed Early Archaic, Late Archaic and Late Prehistoric occupations dating to the Opal, Pine Spring, and Uinta phases. Specialized hearth features, including slab-lined hearths, were used to process floral and/or faunal resources throughout the area during all time periods. Prehistoric hunter-gatherers in the area employed highly adaptive subsistence strategies, which vary along the forager-collector continuum, and are largely dependent on season and resource availability. Data derived from the excavations reveals the focused use of limited resources by small groups occupying short term, satellite camps associated with larger base camps situated along the Deadman Wash drainage system.

INTRODUCTION

Data recovery excavations were conducted by Western Archaeological Services (WAS) at the Paired Feature site (48SW7456), the Kindra site (48SW7457), the Jake Roble site (48SW15052), and the North Side Playa site (48SW17323) during the 2010 field season pursuant to cultural resource requirements stipulated for the Bridger Coal Company (BCC) Underground Lease Area project. Excavations at each of the four sites yielded limited cultural materials indicative of short-term hunter-gatherer occupations. Basic summary information regarding the results of the excavations at the sites is provided in the following site descriptions. A summary of the cultural materials recorded at the four sites during the excavation project is presented (Table 1).

The BCC study area is located in southwest Wyoming within the western portion of the Wyoming Basin (Figure 1). The area is characterized by a high desert environment with rugged deeply cut draws, broad benches, and high rocky ridges. The Leucite Hills and Rock Springs Uplift rise to the west, and the Continental Divide is located several miles to the north and east, separating the area from the Great Divide Basin situated farther to the east. Steamboat Mountain, North and South Table Mountains, Spring Butte, and Black Rock rise to the northwest of the study area, and Black Butte

Table 1: Summary of Cultural Material Recorded During Excavations at Bridger Coal Company Underground Lease Area

SITE	COMPONENTS CHRONOLOGY PERIOD/PHASE	DATES (#)(RANGE)	FEATURES COMPONENT (#)	STONE TOOLS	DEBITAGE COMPONENT (#)	FAUNAL REMAINS	GROUNDSTONE COMPONENT (#)
48SW7456 Paired Feature	Component 1 Late Archaic/Pine Spring	(4) 3670-4170 B.P.	Comp. 1 (4)	Comp. 1 (3)	Comp. 1 (49)	Comp. 1 (34)	Comp. 1 (1)
48SW7457 Kindra	Components 1-2 Late Prehistoric/Uinta Components 3-4 Late Archaic/Pine Spring Components 4-5 Early Archaic/Opal	(7) 1350-6640 B.P.	Comp. 1 (1) Comp. 2 (1) Comp. 3 (1) Comp. 4 (2) Comp. 5 (2)	Comp. 1 (4) Comp. 2 (3) Comp. 3 (4) Comp. 4 (13) Comp. 5 (0)	Comp. 1 (76) Comp. 2 (99) Comp. 3 (51) Comp. 4 (154) Comp. 5 (0)	Comp. 1 (75) Comp. 2 (98) Comp. 3 (61) Comp. 4 (127) Comp. 5 (655)	Comp. 1 (0) Comp. 2 (0) Comp. 3 (1) Comp. 4 (1) Comp. 5 (0)
48SW15052 Jake Roble	Components 1-2 Late Prehistoric/Uinta	(3) 1050-1280 B.P.	Comp. 1 (1) Comp. 2 (3)	Comp. 1 (2) Comp. 2 (0)	Comp. 1 (39) Comp. 2 (149)	Comp. 1 (59) Comp. 2 (559)	Comp. 1 (1) Comp. 2 (0)
48SW17323 North Side Playa	Component 1 (Occupation 2) Late Prehistoric/Uinta Component 1 (Occupation 1) Early Archaic/Opal	(3) 1420-5550 B.P.	Occup. 1 (1) Occup. 2 (2)	Occup. 1 (0) Occup. 2 (2)	Occup. 1 (3) Occup. 2 (20)	Occup. 1 (21) Occup. 2 (22)	Occup. 1 (0) Occup. 2 (0)

Comp. = Component; Occup. = Occupation.

risers to the south. Deadman Wash is the major drainage in the area. It trends east and then southward through the western portion of the study area eventually discharging into Bitter Creek, a tributary of the Green River. The southeastern margin of the study area is drained by Tenmile Draw which flows southwest conjoining with Deadman Wash near its confluence with Bitter Creek.

Sediments and soils in the study area consist primarily of eolian sand and residual silt, with extensive slope-wash deposits along the lower ridge slopes. Erosion and wind deflation have denuded many of the exposed western slopes down to the underlying sandstone or siltstone regolith, and concomitant sand sheet and shadow deposits are often present on the eastern slopes. Most cultural resources located within the study area are typically located within eolian sand deposits. Three general types of eolian deposits occur: dunes, sand shadows, and sand sheets. Because of their inherent mobility, sand dunes can rapidly cover and preserve cultural materials; however, they can also expose materials as the density of sand is dynamic relative to environmental conditions.

Vegetation within the study area consists of greasewood (*Sarcobatus vermiculatus*) and saltbush (*Atriplex* spp.) which dominate the middle terraces where alkaline concentrations are greatest. Sagebrush (*Artemisia tridentata*) dominates the higher terraces, ridge slopes, and benches. Great Basin wild rye (*Elymus cinereus*) and reedgrass (*Calamagrostis neglecta*) occur near springs and along the upper reaches of dry watercourses where soil and moisture conditions are favorable. Other species include rabbitbrush (*Chrysothamnus nauseosus*), thickspike wheatgrass (*Ag-*

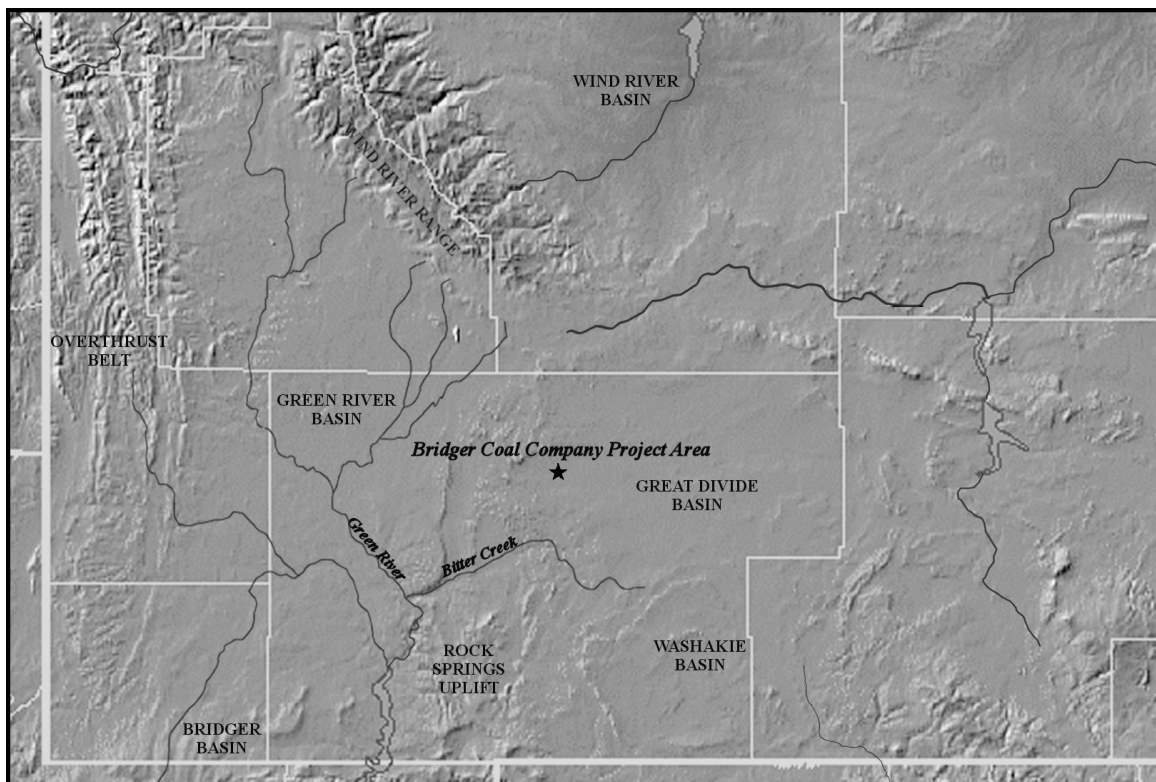


Figure 1: Regional map showing location of Bridger Coal Company Project Area in Sweetwater County, Wyoming.

ropyron dasystachyum), western wheatgrass (*Agropyron smithii*), needle-and-thread grass (*Stipa comata*), bottlebrush squirreltail (*Sitanion hystrix*), bluebunch wheatgrass (*Agropyron spicaatum*), Indian ricegrass (*Oryzopsis hymenoides*), and various forbs such as milkvetch (*Astragalus* spp.), snowball sandverbena (*Abroonia fragrans*), basin mustard (*Schoenocrambe linifolia*), pale evening primrose (*Oenothera pallida*), silky crazyweed (*Oxytropis sericea*), sand penstemon (*Penstemon arenicola*), and winterfat (*Ceratoides lanata*).

RESULTS

48SW7456: (THE PAIRED FEATURE SITE)

Archaeological excavations at the Paired Feature site revealed the presence of one cultural component within two discrete excavation loci (Blocks A and B) dating to the Pine Springs phase of the Late Archaic period. Each of the

two excavation loci contained a set of paired features associated with limited quantities of cultural material representative of short term hunter-gatherer occupations (Figure 2).

Block A, contained a set of paired hearth features, along with limited lithic debitage, stone tools, and faunal remains. The stone tools included one retouched cobble, one final biface fragment, and one hafted knife fragment. The faunal remains consisted of five intrusive rodent specimens and one piece of fragmented deer/sheep/pronghorn tooth enamel. Lithic debitage included 34 specimens primarily (94%) derived from fossiliferous chert. The paired features included a slab-lined hearth which yielded a radiocarbon date of 4170±40 B.P. and a basin hearth with a radiocarbon date of 4120±40 B.P. The paired features are interpreted to have been used in conjunction with one another during a short-term hunter-gatherer occupation of the locality.

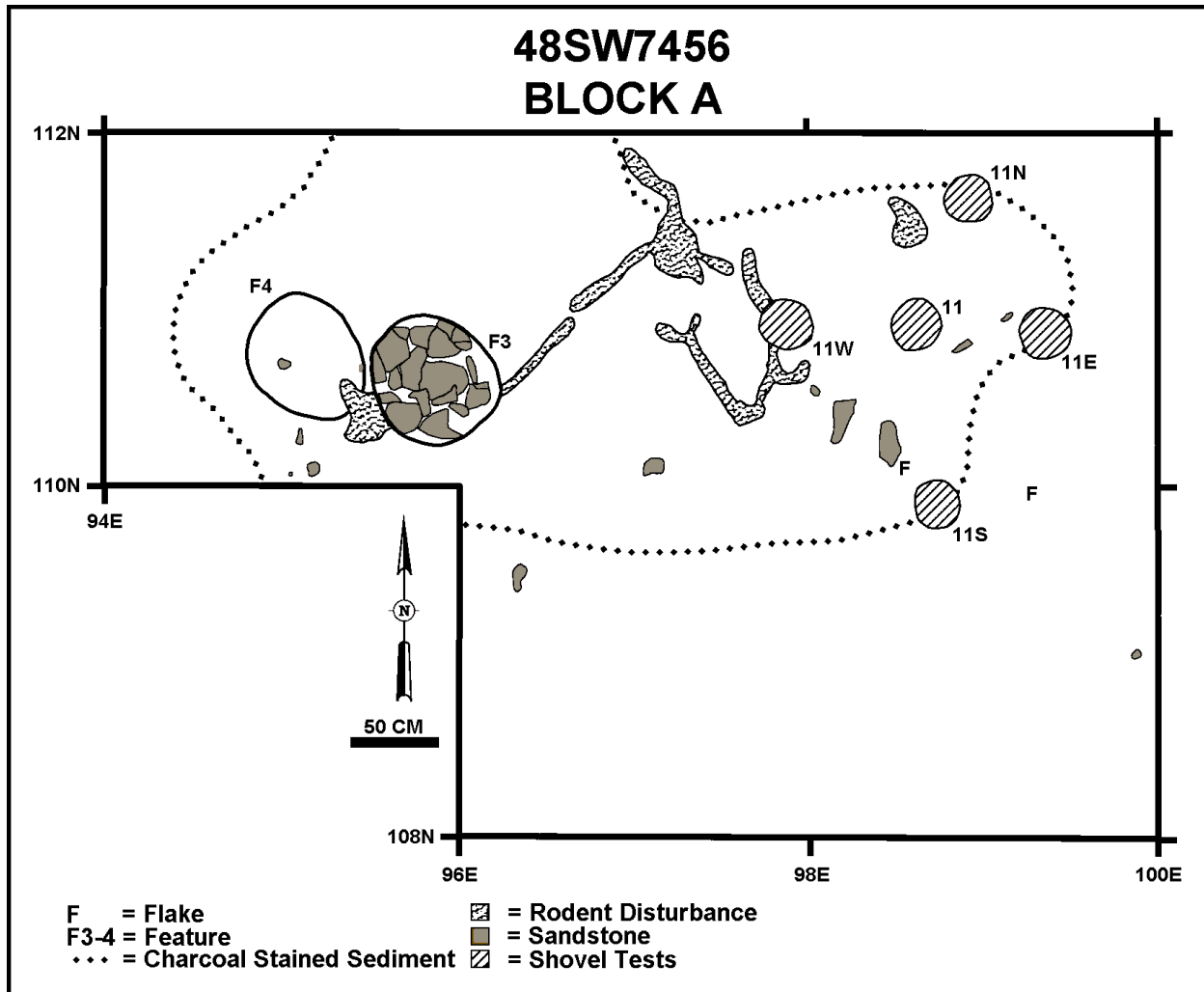


Figure 2: Plan view map of in situ cultural material associated with Block A at Paired Feature site (48SW7456).

Block B also contained a set of paired hearth features associated with limited lithic debitage, faunal remains, and one groundstone specimen. The groundstone specimen consisted of a slab metate fragment recovered from the upper portion of Feature 2. The faunal remains consisted of 28 specimens including specimens identified as D/S/P (deer, sheep, or pronghorn), ground squirrel (*Spermophilus* spp.), jackrabbit (*Lepus* sp.) and pocket gopher (*Thomomys* spp.). Recovered debitage included only 15 specimens primarily (87%) derived from fossiliferous chert. The paired features consisted of a partially slab-lined hearth producing a radiocarbon date of 3670 ± 40 years B.P., and a slab-lined

hearth with a radiocarbon date of 4020 ± 40 years B.P. Based on the vertical and horizontal association of the features, they are considered contemporaneous and are interpreted to have been used in conjunction during a short-term hunter-gatherer occupation of the locality.

Overall, the cultural materials recovered from Component 1 within Blocks A and B at the Paired Feature site, are reflective of short-term hunter-gatherer occupation(s) associated with the use of two sets of paired features. The short-term occupation(s) appear to have been focused on a variety of residential type activities including limited tool maintenance, the limited processing of faunal resources, and potential

wild onion processing based on FTIR analysis.

48SW7457: (THE KINDRA SITE)

Archaeological data recovery at the Kindra site revealed multiple short-term focused occupations during the Opal phase of the Early Archaic period (6570 years B.P.) through the Uinta phase (1350 years B.P.) of the Late Prehistoric period. The five cultural components recorded during the excavation at the site reflect a forager style subsistence strategy organized around a limited number of base camps served by satellite field camps of which the Kindra site is an example.

Component 1 yielded a single hearth feature, 76 pieces of lithic debitage, 75 faunal specimens, one preform, two blanks, and one utilized flake. A radiocarbon age of 1350 ± 40 years B.P. was obtained from the hearth, placing the occupation in the Uinta phase of the Late Prehistoric period. This limited occupation of the site focused on lithic activities including tool maintenance and limited production, and the processing of faunal resources including rabbit and pronghorn during a short term hunter-gatherer occupation of the site.

Component 2 also represents Uinta phase occupation of the site, which was dated to 2050 years B.P. The Component 2 cultural remains included one hearth feature, three flaked stone tools, 99 pieces of lithic debitage, and 98 faunal specimens. The remains were organized into two activity areas reflecting general subsistence activities.

Component 3 from the Kindra site consisted of an occupation dated to the Opal phase of the Early Archaic period (4440 to 4500 years B.P.). Component 3 deposits contained one hearth feature, four flaked stone tools, one groundstone specimen, 51 pieces of lithic debitage, and 61 faunal specimens. These remains were spatially contained within three activity areas and appear to be reflective of targeted subsistence activities including tool maintenance/refinishing, faunal resource processing.

Component 4 also represents an Opal occupation of the site, dated to between 4870 and 4980 B.P. Component 4 cultural remains included two hearth features, 13 flaked stone tools, 154 pieces of lithic debitage, and 127 faunal specimens. The cultural materials represent a variety of activities including tool maintenance and refinishing, as well as, the processing of faunal resources including rabbit and pronghorn.

Component 5 represents a truncated occupation of the Kindra site during the Opal phase and was dated to between 6240 and 6570 years B.P. Component 5 was represented by two hearth features and 655 faunal specimens recovered from within the two features. Identified taxa included *Sylvilagus spp.* (cottontail) and *Lepus spp.* (jackrabbit). The occupation appears to represent a short-term hunter-gatherer occupation of the locality in which rabbit were procured and processed.

Overall, the cultural components at the Kindra site revealed a lifeway which varied little through time, using the same basic resources for 5000 years (Figure 3). Material derived from the different components is striking in its similarity. The hearths recorded from the two Uinta phase components were shallow basins, one with rock fill and the other without. Hearth features from the two Opal phase components were also shallow basins. The Uinta phase basins were slightly smaller in diameter and volume compared to the Opal phase hearths. Samples of feature fill suggest *Allium* or wild onions may have been cooked in some of the hearths.

Faunal assemblages for all components exhibit greater frequencies of small (rabbit-sized) mammal remains as compared to large mammals (deer/pronghorn-sized) remains, although there was a distinct increase in large mammal use during the Uinta phase occupations. Rabbit, sage grouse, and probably pronghorn were processed and consumed at the site during many of the occupations.

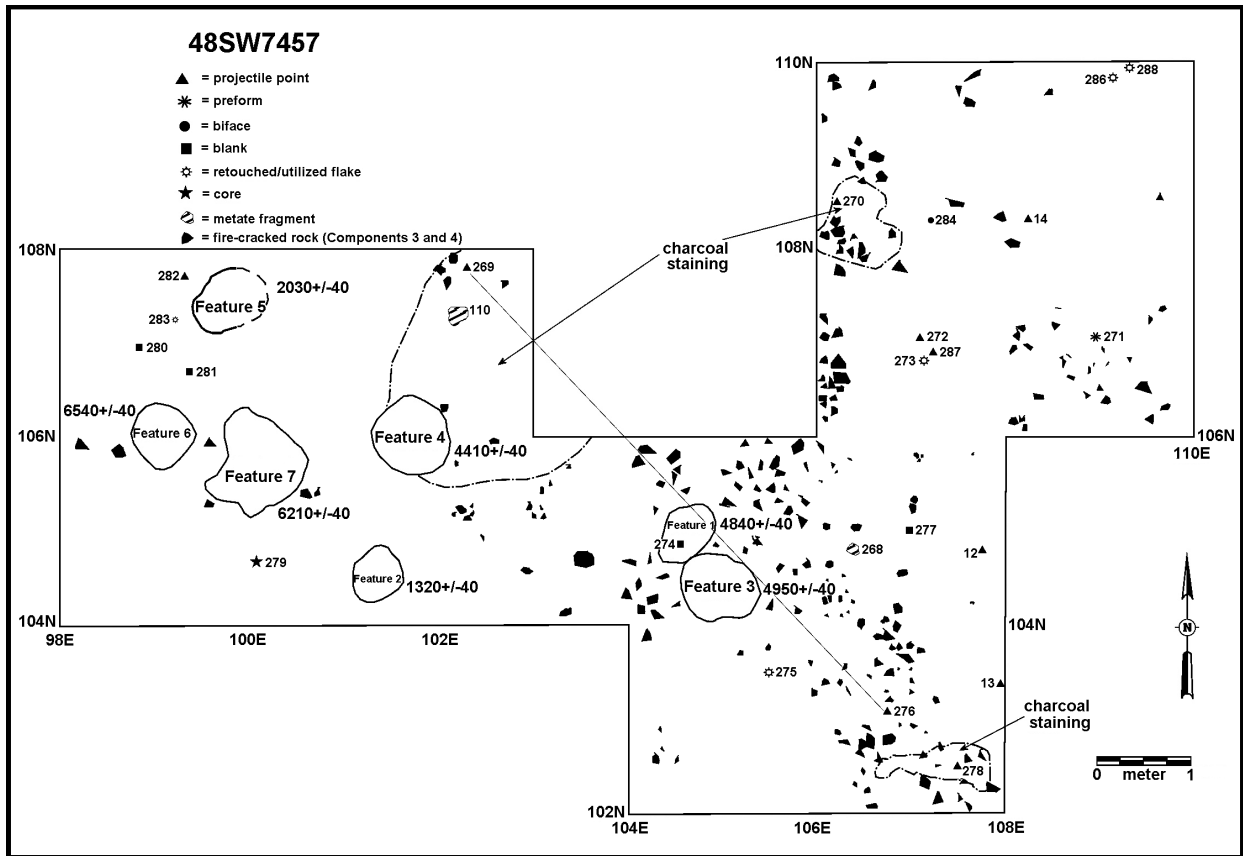


Figure 3: Plan view of excavation block at Kindra site (48SW7457).

The debitage assemblages recorded from all the site occupations contained more fossiliferous chert than quartzite. This is a departure from many other excavated components in the area which exhibit a predominance of quartzite, particularly the local Black Buttes quartzite (Darlington et al. 2004).

The Uinta phase occupations exhibit a higher percentage of expedient tools than the Opal occupations possibly reflecting a slightly more sedentary lifestyle during the Uinta period. This may be attributed to the more mesic conditions which allowed for easier access to resources and stockpiling of material and consequently use of more expedient tools types (Andrefsky 1994).

Groundstone artifacts were recovered from the Opal occupations but not from the Uinta occupations. Most sites in the general area exhibit an increase in groundstone during the Uinta phase reflecting more intensive use of floral resources (McNees et al. 1992).

While there are slight differences in the quantity of cultural material recovered from each cultural component, activity area function remained relatively consistent through time. A pattern has emerged of short-term, but often repeated, occupations of a locale in response to a patchy distribution of subsistence resources. This high residential mobility results in small, redundant archaeological expressions with relatively sparse cultural remains. Activities at the site focused on a variety of residential-type activities including limited tool maintenance, the limited processing of rabbit and pronghorn, and possibly wild onion processing.

48SW15052: THE JAKE ROBLE SITE

Archaeological data recovery at the Jake Roble site revealed short-term focused occupations of the site during the Uinta phase of the Late Prehistoric period. The two cultural components recorded at the site are indicative

of a forager style subsistence strategy in which a limited number of base camps were tethered to satellite field camps. The Jake Roble is an example of a short-term/satellite field camp.

Component 1 deposits yielded one hearth feature, two flaked stone tools, 39 pieces of lithic debitage, one mano, and 59 faunal remains. A radiocarbon age of 1050 ± 40 years B.P. was obtained from the hearth. The Component 1 occupation of the site focused on a variety of resources including rabbit and pronghorn. The cultural materials recorded from Component 1 reflect a short-term field or satellite camp occupied by one or more small family groups of hunter-gatherers.

Component 2 deposits contained three hearth features, 149 pieces of lithic debitage, 559 faunal specimens, four bone beads, and bead production/waste material (Figure 4). No flaked stone tools were recovered. The hearths included a deep, cylindrical basin, a shallower cylindrical basin, and a shallow hemispherical basin. A radiocarbon age of 1280 ± 40 years B.P. was obtained from two of the features. Based on the radiocarbon data, the site is interpreted to represent a single occupation. This occupation of the site focused on a variety of residential-type activities including tool maintenance and refinishing, bone bead manufacture,

and the processing of rabbit, sage grouse, and perhaps antelope and bison. The Component 2 remains recorded at the site reflect a short-term field camp or satellite camp occupied by one or more small family groups of hunter-gatherers.

48SW17323: THE NORTH SIDE PLAYA SITE

Archaeological data recovery at the North Side Playa site documented one cultural component representative of two occupations within two separate excavation loci, Blocks A and B (Figure 5). The site is interpreted as consisting of a single component prehistoric camp site containing two occupations dating between 5550 and 1420 years ago.

One hearth feature, 20 lithic debitage specimens, 22 faunal specimens, and three stone tools were recovered from Block B, Component 1, Occupation 1. The stone tools include two utilized flakes and one retouched flake. The tools were recorded within a one m radius of Feature 3. Feature 3 yielded a radiocarbon date of 5550 ± 40 years B.P. placing it within the Opal phase of the Early Archaic period. Occupation 1 of the site appears to have been short-term based on the relatively low quantity of recovered cultural materials. Although limited, the



Figure 4: Photograph of bone beads and bead production/waste material from Component 2 at Jake Roble site (48SW15052).

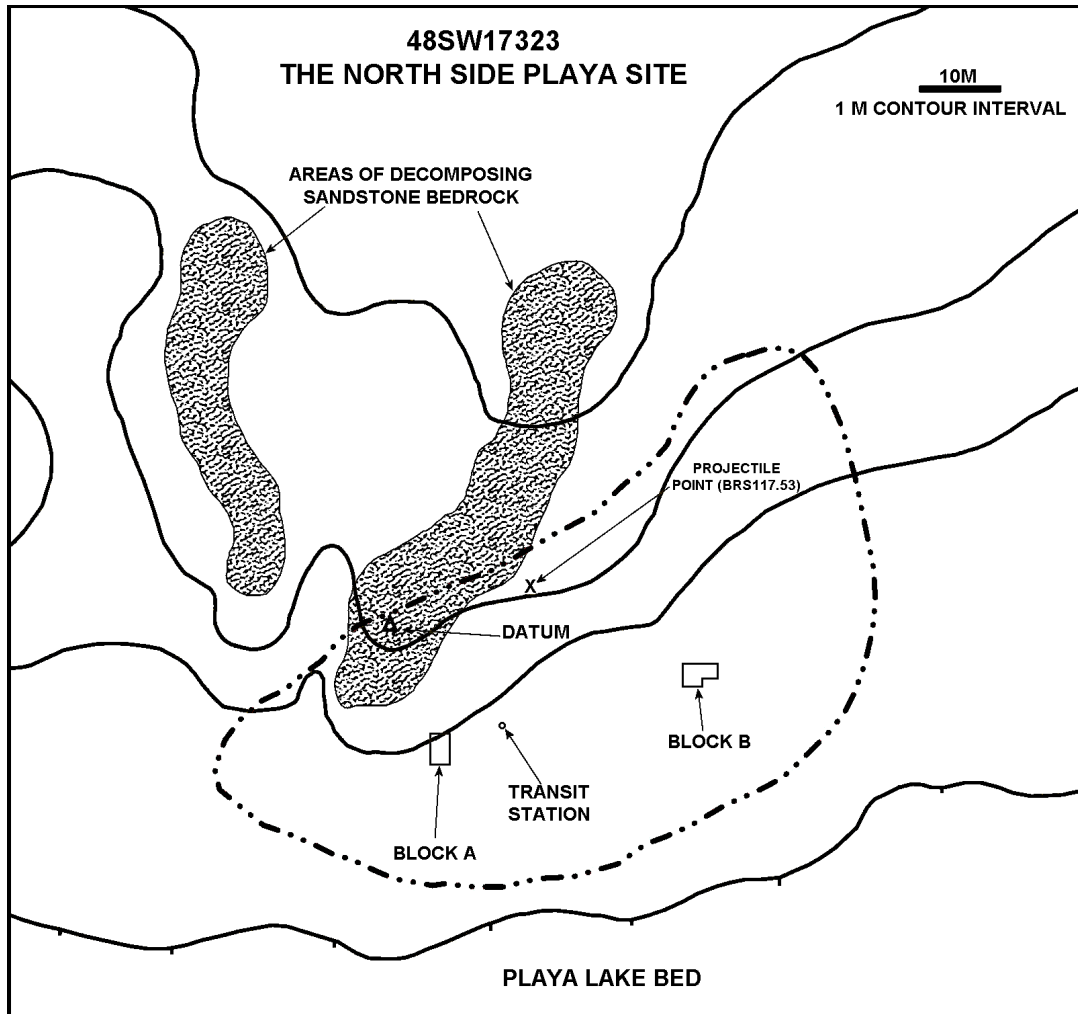


Figure 5: Plan view map of North Side Playa site (48SW17323).

cultural material is indicative of the processing of rabbit and pronghorn, and possibly wild onions during a short-term hunter-gatherer open camp occupation of the locality.

Two shallow features, three lithic debitage specimens and 21 faunal specimens, were recovered from Block A, Component 1, Occupation 2. The features yielded radiocarbon dates of 1570 ± 40 years B.P. and 1420 ± 40 years B.P., respectively. The features are assigned to the Uinta phase of the Late Prehistoric period. Occupation 2 of the site also appears to have been short-term hunter-gatherer occupation based on the few associated cultural remains. The limited cultural material suggests rabbit and pronghorn, and possibly wild onions were also processed

during the occupation.

Overall, the cultural materials recovered from the North Playa site are reflective of short-term hunter-gatherer occupations associated with the use of shallow basin-shaped hearths. Although associated cultural material was limited, the recorded information suggests residential-type activities including processing of flora (wild onions) and faunal (rabbit and pronghorn) remains, and the maintenance of transported tools was conducted during the site occupations.

SUMMARY

Archaeological excavations conducted at the Paired Feature site (48SW7456), the Kin-

dra site (48SW7457), and the Jake Roble site (48SW15052) within the BCC Underground Mine Lease Area during the 2010 field season documented cultural materials reflecting the seasonal use of the area by aboriginal hunter-gatherer populations using a limited range of available subsistence resources. Human use of the area has been ongoing for approximately 6500 years, from the Great Divide phase of the Early Archaic through the Late Prehistoric Firehole phase (Darlington et al. 2004). The sites excavated during the current project represent Opal, Pine Spring, and Uinta phase hunter-gatherer occupations. Specialized hearth features, including slab-lined hearths, were used to process floral and/or faunal resources throughout the area during all time periods. Unique features like paired hearths and large and deep cylindrical hearths were present at some sites. Activities at the sites focused on a variety of residential-type activities including tool maintenance and refinishing, bone bead manufacture, and the processing of rabbit, sage grouse, and perhaps antelope and bison. The eastern margins of the Rock Springs Uplift have a high incidence of Uinta Phase components containing evidence of bone bead manufacture. Tubular bone beads are generally associated with Late Prehistoric Uinta Phase components. Rabbit-sized mammals were the primary source for bone bead production, although small mammal, ground squirrel, coyote and medium sized mammals were also used (McNees et al 1992, McKibbin et al 1989). McNees et al. (1992) listed eleven bone bead production sites in southwestern Wyoming. Of these, seven are located in the Black Butte, Leucite Hills area.

To date, over 200 sites have been documented in the BCC study area (Darlington et al. 2004; McNees et al. 1992; McNees et al. 1989; McKibbin et al. 1989). Prehistoric hunter-gatherers in the area employed highly adaptive subsistence strategies, which vary along the forager-collector continuum, and were largely dependent on season and resource

availability. Data derived from the current excavations reveals the focused use of locally available resources by small groups of hunter-gatherers occupying short term, satellite camps which were spatially associated with larger base camps situated along the Deadman Wash drainage system.

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BOOK REVIEW

Supplying Custer: The Powder River Supply Depot, 1876. Clark, Gerald R. The University of Utah Press, Salt Lake City, Utah. 2014. xii+252 pages; 34 illustrations, 7 maps; 5 tables; 11 appendices. ISBN 978-1-60781-355-2 (paper), \$24.95); ISBN 978-1-60781-356-9 (eBook), \$20.00.

This book is a site report detailing the archaeology and historic context of a non-descript location on the Northern Plains that played a role in important events of the late 19th Century. It is the result of thirty-six years of intermittent research by one individual who was assisted by a who's who list of specialists in the archaeology and history of the U. S. Army activities on the Northern Plains in the late 19th Century. The book is well written and will allow the general reader to understand some of the details relating to the 1876 Sioux War.

The first four chapters provide a description of the site and the historic events occurring during the time it was occupied. They also provide information relating to the U. S. Army transportation and supply system. Chapter 5 discusses the archaeological aspects of the

site including the features excavated and the artifacts recovered. Chapter 6 presents a summary of the results of the research completed, highlighting those that reflect on the U. S. Army supply system. It also identifies future research needs for the site and the region. All of the details that might overwhelm a general reader are included in eleven appendices for those with an interest.

As a historian, I appreciate the broad historic context provided for the region and the time period, the detailed Notes section, and the extensive bibliography. As an archaeologist, I am impressed with the detailed description of the site, the excavations conducted, the inclusion of a detailed artifact catalog and analysis of the bone recovered, and the extensive research conducted relating to the origin of the artifacts recovered. This book serves as an excellent quick reference for historians and could easily serve as text book for college courses relating to Historical Archaeology.

Reviewed by Michael T. Bies, OW Heritage Research, LC, PO Box 992, Worland, WY 82401.



**WYOMING
ARCHAEOLOGICAL
SOCIETY**



2015 Spring Meeting

POSTER SESSION **FRI-SAT-SUN, May 1-2-3, 2015** POSTER SESSION
FRI. 5 -6 P.M. & SAT. Break Times FRI. 5 -6 P.M. & SAT. Break Times
Holiday Inn Convention Center, 900 East Sunset, Riverton, WY (307-856-8100)

<http://www.wyomingarchaeology.org>

Welcome to Fremont County!

The Fremont County Archaeological Society is pleased to host the 2015 Spring Meeting of the Wyoming Archaeological Society (WAS) and the Wyoming Association of Professional Archaeologists (WAPA). Welcome!

Meeting Location

All WAS meetings, the silent auction, and the Saturday banquet will be held at the **Holiday Inn Convention Center, 900 East Sunset Blvd. Riverton, Wyoming** which is located at the intersection of Sunset Blvd and HWY 789. Walgreens and the Pit Stop (gas station and convenience store) are also located at this intersection.

WAPA Meeting

Meets in Taggart Rooms Friday May 1st from 1:00 to 5 p.m. (Taggart Rooms are directly across from the main entrance.)

Welcome Social

The Friday evening Welcome Reception and Early Bird Get Together is scheduled for the Taggart Rooms 6:00 until 9 p.m. Cash bar and free snacks will be available on site. Please come and chat with everyone!

WAS Business Meeting

Taggart Rooms Saturday, May 2nd 8:00 to 10:00 a.m.

Saturday Paper Presentations

May 2nd: Taggart Rooms from 10:00 a.m. until 5 p.m. Coffee, water, snacks (free of charge) and information will be provided on site. Our Master of Ceremonies is Dr. Danny Walker.

Saturday evening banquet

Taggart Rooms from 6:00 p.m. until about 9:00 p.m. SILENT AUCTION items are to be picked up and paid for by CASH/CHECK immediately following the banquet in the Taggart Rooms. **Please register early as tickets for the banquet are anticipated to be SOLD OUT by the time of the conference.**

Scholarship Committee

Saturday NOON to 1 p.m. **ROOM RESERVED – DETAILS ON SITE.** You may order from their menu if you would like.

WAS Foundation Meeting

Sunday May 3rd 7:00 to 9:00 a.m. **ROOM RESERVED – DETAILS ON SITE.** You may order from the restaurant menu if you would like.

Registration

Preregistration is encouraged as soon as possible to assist the Holiday Inn Convention Center in ordering food. We anticipate that the banquet will sell out quickly.

On-site registration will be in just inside the Taggart Room Friday 5 p.m. through Saturday.

Registration is required to access all WAS activities. Name tags identify WAS registrants and spouses plus banquet tickets.

Banquet Speaker

Our keynote speaker is Greg Pierce who is our new Wyoming State Archaeologist. Please join us while we enjoy getting to know our new Wyoming State Archaeologist.

Room Reservations: Note the difference in cut off dates April 6th & April 16th

You are responsible for making your own room reservations. Please make them as soon as possible to receive a discount no later than April 6th for the Hampton Inn and April 16, 2015 for the Holiday Inn Convention Center.

Your credit card won't be charged until check out May 3, 2015. A block of rooms have been reserved for out-of-town conference participants as follows:

Discount no later than April 6—not the 16th for the HAMPTON INN, 2500 N. Federal, Riverton, WY: A block of up to 25 rooms @ conference rate of \$89 (+taxes) (code WAS) is reserved. **Complimentary breakfast included.** 1-307-856-3500. Online registration: <http://hamptoninn.hilton.com/en/hp/groups/personalized/R/RIWWYHX-ARC-20150501/index.jhtml>

Discount no later than APRIL 16: HOLIDAY INN CONVENTION CENTER, 900 East Sunset, Riverton, WY: A block of 25 rooms @ conference rate of \$89 (+taxes) (code WAS) is reserved. 307-856-8100 Toll Free: 877 857- 4834 (The Holiday Inn Convention Center is where all events will take place. Field trips will leave from the lobby at 9:00 a.m. on Sunday.)

Silent Auction

The annual fund-raising auction provides a variety of items for your bidding pleasure. If you have items you would like to donate to the auction, please bring them with you. The Silent Auction will be held inside the Taggart Room. Our Silent Auction Chair will be available to have you sign your name, address, and list the items donated. Please be prepared to pay in CASH/CHECK. Thank you all for donating and bidding!

Vendors

If you are interested in selling archaeologically related items at the meeting, please check our website for an application www.wyomingarchaeology.org

Field Trip: You may tour all facilities at no charge

Friday - Saturday: On Your Own Touring of the Riverton Museum 700 East Park, Riverton, WY

Sunday morning's field trip is planned to leave the HI Convention Center 9:00 a.m. May 3rd.

9:30 Museum of the American West 1445 West Main Street, Lander, WY

Fremont County Pioneer Museum, 1443 Main Street, Lander, WY

Sinks Canyon State Park Visitors' Center & archaeological sites: **WEATHER PERMITTING**

Maps to these sites and informative will be available at the HI Convention Center.

Please check our WAS website for information or forms: <http://www.wyomingarchaeology.org>

We look forward to seeing you May 1, 2, & 3! Mark your calendars!

For questions on registration: Larry Amundson, 85 Goose Knob Drive, Riverton, WY 82501-8306

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THE WYOMING **Archaeologist**

VOLUME 57; NUMBER 1; 2013

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