

11/09 to 3/2009 ARCADIS U.S., Inc. Hartzog Draw POD (Williams).
Principal Investigator, coordinating crews (3 people), supervising crews for approximately 1,253 acres of coal bed methane plan of development. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic. Campbell County, Powder River Basin, Wyoming.


09/09 to 10/09 ARCADIS U.S., Inc. Anchor Replacement Project (PacifiCorp).
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 30 acres of anchor replacement construction. Tasks included pre-field coordination, records check, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Late Prehistoric, Archaic. Lincoln County, Overthrust Belt, Wyoming.

09/09 to present ARCADIS U.S., Inc. Rock Springs Road Transmission Line (PacifiCorp).
Principal Investigator, coordinating crews (5 people), supervising crews for approximately 60 miles of transmission line right-of-way. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic (trails, debris), Late Prehistoric, Archaic. Sweetwater and Fremont Counties, Wyoming Basin, Wyoming.

04/09 to present ARCADIS U.S., Inc. Jonah 3D Seismic (Global Geophysical Services).
Principal Investigator, coordinating crews (5 to 10 people), supervising crews for approximately 14,400 acres of seismic exploration. Tasks included pre-field coordination, records check, survey, lab analysis, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Archaic, Late Paleoindian. Sublette County, Upper Green River Basin, Wyoming.

03/09 to present ARCADIS U.S., Inc. Pumpkin Buttes I POD (Williams).
Principal Investigator, coordinating crews (3 to 7 people), supervising crews for approximately 2,560 acres of coal bed methane plan of development. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic, Paleoindian. Campbell County, Powder River Basin, Wyoming.

10/08 to present ARCADIS U.S., Inc. Wormwood II POD (Williams).
Principal Investigator, coordinating crews (3 to 7 people), supervising crews for approximately 3,120 acres of coal bed methane plan of development. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic. Campbell County, Powder River Basin, Wyoming.

United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of: CROW BUTTE RESOURCES, INC. (License Renewal for the In Situ Leach Facility, Crawford, Nebraska)	
	ASLBP #: 08-867-02-OLA-BD01
	Docket #: 04008943
	Exhibit #: NRC-0540-00-BD01
	Admitted: 8/18/2015
	Rejected:
Other:	Identified: 8/18/2015 Withdrawn: Stricken:

08/08 to present	<p>ARCADIS U.S., Inc. Trend Exploration I Wells. Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 11 wells and associated access. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic. Campbell County, Powder River Basin, Wyoming.</p>
08/08 to present	<p>ARCADIS U.S., Inc. Table Mountain II and III PODs (Anadarko). Principal Investigator coordinating crews (3 to 15 people), supervising crews for approximately 25,800 acres of coal bed methane plans of development. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered to date: Expansion Period Historic, Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic, Late Paleoindian. Johnson and Campbell Counties, Powder River Basin, Wyoming.</p>
08/08 to present	<p>ARCADIS U.S., Inc. Dry Willow III, IV, V PODs (Anadarko). Principal Investigator supervising crews (6 to 15 people) for natural gas well pads, pipelines, and access roads (20 section block survey). Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered to date: Expansion Period Historic, Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic, Late Paleoindian. Campbell County, Powder River Basin, Wyoming.</p>
05/09	<p>ARCADIS U.S., Inc. Grady 36 Pipeline right-of-way (Resolute). Principal Investigator, coordinating crews (2 people), supervising crews for approximately 640 acres of coal bed methane development. Tasks included pre-field coordination, records check, survey, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, unknown prehistoric. Campbell County, Powder River Basin, Wyoming.</p>
05/09	<p>ARCADIS U.S., Inc. True Oil Federal Wells. Principal Investigator, coordinating crews (2 people), supervising crews for approximately 30 acres of coal bed methane development. Tasks included pre-field coordination, records check, survey, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, unknown prehistoric. Campbell County, Powder River Basin, Wyoming.</p>
02/09 to 04/09	<p>ARCADIS U.S., Inc. Thunder Basin Coal Mine. Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 2,400 acres of coal bed methane plan of development. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Senior Author), management recommendations, follow-up, and quality assurance.</p>

Cultural resources encountered: Historic Period, unknown prehistoric. Campbell County, Powder River Basin, Wyoming.

- 02/09 to 04/09 ARCADIS U.S., Inc. Brinkerhoff Federal POD (Marathon).
Principal Investigator. Tasks included pre-field coordination, records check, report preparation (Contributing Author), and quality assurance. Cultural resources encountered: unknown prehistoric. Sheridan County, Powder River Basin, Wyoming.
- 02/09 ARCADIS U.S., Inc. Permit to Mine Willow Creek Area (Black Hills Bentonite).
Principal Investigator. Tasks included pre-field coordination, records check, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: none. Johnson County, Powder River Basin, Wyoming.
- 02/09 ARCADIS U.S., Inc. Termo Federal Well.
Principal Investigator. Tasks included pre-field coordination, records check, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: none. Campbell County, Powder River Basin, Wyoming.
- 01/09 ARCADIS U.S., Inc. Burgess 13 Federal POD (Marathon).
Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 25 acres of coal bed methane plan of development. Tasks included pre-field coordination, records check, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. Sheridan County, Powder River Basin, Wyoming.
- 09/08 to 01/09 ARCADIS U.S., Inc. Cedar Draw Unit III POD (Williams).
Principal Investigator, coordinating crews (3 to 10 people), supervising crews for approximately 3,315 acres of coal bed methane plan of development. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic, Late Paleoindian. Campbell County, Powder River Basin, Wyoming.
- 09/08 to 12/08 ARCADIS U.S., Inc. Bridger Butte Guyed Wire (Mountain Wind).
Principal Investigator. Tasks included records check, report preparation, quality assurance. Cultural resources encountered: none. Uinta County, Wyoming.
- 06/08 to 10/08 ARCADIS U.S., Inc. True Oil Federal Wells.
Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 100 acres of coal bed methane development. Tasks included pre-field coordination, records check, survey, testing, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, unknown prehistoric. Campbell County, Powder River Basin, Wyoming.

06/08 to 07/08	ARCADIS U.S., Inc. True Oil Federal Wells. Crew Chief, coordinating crews (3 to 5 people), crews for approximately 40 acres of coal bed methane development. Tasks included pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Contributing Author), management recommendations, and quality assurance. Cultural resources encountered: Expansion Period Historic, unknown prehistoric. Campbell County, Powder River Basin, Wyoming.
06/08	ARCADIS U.S., Inc. Meier Siding Project (Union Pacific). Crew Chief, coordinating crews (2 people), for approximately 27 acres of mine development. Tasks included pre-field coordination, records check, follow-up, and quality assurance. Cultural resources encountered: none. Goshen County, Goshen Hole, Wyoming.
05/08	ARCADIS U.S., Inc. Leonardite Drilling Project (Black Hills Bentonite). Crew Chief, coordinating crews (2 people), for 27 acres of mine development. Tasks included pre-field coordination, records check, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. Converse County, Powder River Basin, Wyoming.
05/08 to 06/08	ARCADIS U.S., Inc. Painted Hills Unit (Anadarko). Crew Chief, for approximately 20 acres of coal bed methane plan of development. Tasks included setting records check, report preparation, and quality assurance. Cultural resources encountered: none. Fremont County, Wind River Basin, Wyoming.
03/08 to 10/09	ARCADIS U.S., Inc. Kingwood III POD (Williams). Crew Chief, coordinating crews (3 to 10 people), supervising crews for approximately 4,354 acres of coal bed methane plan of development. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic. Campbell County, Powder River Basin, Wyoming.
03/08 to 09/08	ARCADIS U.S., Inc. 12 Mile Ranch Wind Farm (PacifiCorp). Crew Chief, for approximately 60 acres of wind farm development. Tasks included records check, report preparation, and quality assurance. Cultural resources encountered: Expansion Period Historic, unknown prehistoric. Albany County, Northern Laramie Structural Basin, Wyoming.
12/07to 01/08	ARCADIS U.S., Inc. Pine Gulch (Anadarko). Crew Chief, cultural resource monitoring for well and access development. Tasks included records check, report preparation (Contributing Author), follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. Converse County, Powder River Basin, Wyoming.
11/07to	ARCADIS U.S., Inc. Salt Creek VI POD (Anadarko).

12/07 Crew Chief, coordinating crews (2 people) for survey of approximately 10 acres and testing for well and access development. Tasks included pre-field coordination, records check, report preparation (Contributing Author), management recommendations, and quality assurance. Cultural resources encountered: unknown prehistoric. Natrona County, Powder River Basin, Wyoming.

08/07to
06/08 ARCADIS U.S., Inc. JAB Uranium Exploration (Uranium One).
Crew Chief for cultural resource survey and testing for uranium development. Tasks included pre-field coordination, records check, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Paleoindian, Late Archaic, Late Prehistoric. Sweetwater County, Great Divide Basin, Wyoming.

08/07 ARCADIS U.S., Inc. Bass-Kurth Access and Water right-of-way (Black Diamond)
Crew Chief, supervising crews for approximately 15 acres of pipeline. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation, and quality assurance. Cultural resources encountered: Expansion Period Historic trails. Johnson County, Powder River Basin, Wyoming.

07/07 to
10/09 ARCADIS U.S., Inc. West Bear POD (Williams).
Crew Chief, coordinating crews (3 to 7 people), supervising crews for approximately 3,400 acres of coal bed methane plan of development. Tasks included pre-field coordination, records check, report preparation (Contributing Author), management recommendations, and quality assurance. Cultural resources encountered: Late Prehistoric lithic scatters. Johnson County, Powder River Basin, Wyoming.

07/07 to
10/07 ARCADIS U.S., Inc. Wormwood III POD (Williams).
Crew Chief, coordinating crews (3 to 11 people), supervising crews for approximately 1,400 acres of coal bed methane plan of development. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic. Campbell County, Powder River Basin, Wyoming.

07/07 to
09/07 ARCADIS U.S., Inc. Kingsbury IV POD (Williams).
Crew Chief, coordinating crews (3 to 11 people), supervising crews for approximately 3,800 acres of coal bed methane plan of development. Tasks included pre-field coordination, records check, survey, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic. Campbell County, Powder River Basin, Wyoming.

05/07 to
06/07 ARCADIS U.S., Inc. Red Point 3D Seismic (Bill Barrett).
Crew Chief, coordinating crews (6 people), supervising crews for approximately 3,127 acres of seismic exploration. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered:

Goshen, unknown cairns, Expansion Period Historic. Park County, Bighorn Basin, Wyoming.

- 05/07 to 07/08 ARCADIS U.S., Inc. Table Mountain II, III, IV PODs (Anadarko).
Crew Chief supervising crews (3 to 15 people) for approximately 25,800 acres of coal bed methane plans of development. Tasks included pre-field coordination, survey, testing, lab analysis, report preparation (Contributing Author). Cultural resources encountered to date: Expansion Period Historic, Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic, Late Paleoindian. Johnson and Campbell Counties, Powder River Basin, Wyoming.
- 05/07 to 07/08 ARCADIS U.S., Inc. Dry Willow IV, V PODs (Anadarko).
Crew Chief supervising crews (6 to 15 people) for natural gas well pads, pipelines, and access roads (20 section block survey). Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Contributing Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered to date: Expansion Period Historic, Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic, Late Paleoindian. Campbell County, Powder River Basin, Wyoming.
- 03/07 to 07/08 ARCADIS U.S., Inc. Trend Exploration I Wells.
Crew Chief, coordinating crews (3 to 5 people), supervising crews for approximately 10 wells and associated access. Tasks included pre-field coordination, records check, survey, testing, lab analysis, report preparation (Contributing Author), management recommendations, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic. Campbell County, Powder River Basin, Wyoming.
- 01/07 to 09/08 ARCADIS U.S., Inc. Pappy Draw Testing (EnCana).
Crew Chief, for evaluative testing of seven sites along a pipeline. Tasks included report preparation (Contributing Author), management recommendations, and quality assurance. Cultural resources encountered: Middle Archaic to Late Prehistoric house-pits, thermal features, cultural deposits, and activity areas. Fremont County, Wind River Basin, Wyoming.
- 01/07 ARCADIS U.S., Inc. Triangle Unit North construction monitoring (Citation).
Field Technician for the monitoring of pipeline construction. Tasks included monitoring. No cultural resources were encountered. Campbell County, Powder River Basin, Wyoming.
- 12/06 to 05/07 ARCADIS U.S., Inc. Table Mountain II, III, IV PODs (Anadarko).
Field Technician for approximately 25,800 acres of coal bed methane plans of development. Tasks included survey, testing, and lab analysis. Cultural resources encountered to date: Expansion Period Historic, Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic, Late Paleoindian. Johnson and Campbell Counties, Powder River Basin, Wyoming.
- 12/06 ARCADIS U.S., Inc. Horse Creek North added facilities (Winsor Energy).

Field Technician for pipeline construction and access road (15 acres of linear survey). Tasks included survey. No cultural resources were encountered. Campbell County, Powder River Basin, Wyoming.

09/06 to 05/07 ARCADIS U.S., Inc. Dry Willow III POD (Anadarko).
Field Technician for natural gas well pads, pipelines, and access roads (12 section block survey). Tasks included survey, testing, and lab analysis. Cultural resources encountered to date: Expansion Period Historic, Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic, Late Paleoindian. Campbell County, Powder River Basin, Wyoming.

Teaching Experience

8/01 to 12/01 University of Oklahoma. Teaching Assistant.
Introduction to Biological Anthropology (under Dr. Lesley Rankin-Hill). Tasks included grading tests and other various assignments, meeting with students, and producing handouts, reviews, and student progress evaluations.

8/01 to 12/01 University of Oklahoma. Teaching Assistant.
Introduction to Archaeology (under Dr. Richard Pailles). Tasks included grading tests and other various assignments, meeting with students, and producing handouts, reviews, and student progress evaluations.

1/98 to 5/98 Boise State University. Community Education Project.
Prepared and presented a hands-on presentation about Idaho's Great Basin Rock Art to several Boise elementary first grade classes. Boise, Idaho.

IV. PUBLICATIONS

2008 Protohistoric Bison Hunting in the Central Plains: A Study of Faunal Remains from the Crandall Site (14RC420). Plains Anthropologist Memoir 40 208 (53):531-550.

V. UNPUBLISHED REPORTS

2005 to Present Author for reports on all projects listed in the above "Technical Experience"

VI. PAPERS/POSTERS PRESENTED

2007 Unique Late Paleoindian sites in the Powder River Basin, Wyoming. Poster presented at the 64th Plains Anthropological Conference, October 10, 2007, Rapid City, South Dakota.

2006 Specialized Subsistence at the Crandall Site. A Little River Focus Site in Rice County, Kansas. Presented at the 63rd Plains Anthropological Conference, November 9, 2006, Topeka, Kansas.

- 2004 Protohistoric Bison Procurement Strategies at the Crandall Site, Kansas. Presented at the 62nd Plains Anthropological Conference, October 15, 2004, Billings, Montana.
- 2001 Co-Author, The Jake Bluff Bison antiquus Processing Feature and Adjacent Arroyo. Presented at the 59th Plains Anthropological Conference, November 2, 2001, Lincoln, Nebraska.
- 2001 Co-Author, The Prehistory of Kingfisher County: The Chisholm Trail Museum Make-over. Presented at the 43rd Caddo Conference and 23rd Flint Hills Conference, March 16, 2001, Norman, Oklahoma.
- 2000 Comparing Late Prehistoric Subsistence Strategies in the Oklahoma Panhandle. Presented at the Joint Midwest Archaeological and Plains Anthropological Conference, November 12, 2000, St. Paul, Minnesota.

VII. ADDITIONAL TRAINING

- 04/16/2009 Cultural Consultant Workshop (BLM, Rock Springs Field Office).
This training discussed examples of preferred ways of field reporting. In addition, this training discussed how to systematically identify, describe, and analyze visual impacts to cultural resources.
- 09/30/08 Wyoming SHPO Historic Architecture Training (Laramie, Wyoming).
This training provides an introduction to finding, identifying, and describing historic architecture.
- 03/07/08 Wyoming SHPO Historic Context Training (Sheridan, Wyoming).
This training provides an introduction to finding, identifying, and describing historic cultural resources in a large contextual setting.
- 2008 Archaeology Contractor Meeting (BLM, Buffalo Field Office).
This training discussed what happens to cultural reports once they are sent to the BLM, the new Wyoming BLM permit conditions, better ways to prepare and provide cultural inventory project report maps, common cultural report requests and issues, and the extent of BLM responsibility over actions occurring on non-federal lands.
- 2007 BLM/SHPO, Contractor, and Operators Meeting (Casper, Wyoming)
Discussed BLM and SHPO protocol for processing cultural resource reports.

CURRICULUM VITAE
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I. EDUCATION

Degrees

2010	Ph.D.	University of Oklahoma, Norman Dissertation title, <i>Resource Structure and Human Mobility During the Late Pleistocene on the US Southern Plains.</i>	Anthropology
2002	M.A.	University of Wyoming, Laramie Thesis title, <i>Determining the Origins of Mammoth Sites: An Examination of Carnivore Use, Weathering, Bone Representation, and Age Profiles.</i>	Anthropology
2000	B.A.	University of Oklahoma, Norman Cum Laud	Anthropology
1996-1998		Stephen F. Austin State University, Nacogdoches	Engineering

Academic Honors

- Phi Kappa Phi Honor Society – Initiated Spring 2002
- George C. Frison Arts and Sciences Scholarship – UW 2000
- New Graduate Student Scholarship – UW 2000
- Golden Key National Honor Society – Initiated Fall 1999
- Gamma Beta Phi National Honor Society – Initiated Spring 1999
- Phi Eta Sigma National Honor Society – Initiated Spring 1997

Grants

- 2005 National Science Foundation Grant 0535599 “Doctoral Dissertation Research: Investigating Resource Structure and Human Mobility During the Late Pleistocene on the US Southern Plains” (Leland Bement and Adam Graves co-pi’s).
- 2004 Morris and Lucille Opler Research Award.
- 2004 Graduate Student Senate Conference Grant.
- 2001 Paul Stock Foundation Grant-In-Aid Scholarship.
- 1998 Undergraduate Research Opportunities Grant.

II. CURRENT EMPLOYMENT

08/09/06 to present ARCADIS U.S., Inc.
Serving as Certified Project Manager, U.S. Cultural Resources Department Manager, and Principal Investigator for an international company with more than 18,000 employees and more than \$3 billion in gross revenue.

III. PROFESSIONAL EXPERIENCE

Permits Held (current)

Principal Investigator - BLM Lands Wyoming
Principal Investigator - State Lands Wyoming
Principal Investigator - BLM Lands Colorado
Principal Investigator - State Lands Colorado
Principal Investigator - USFS Region 2
Principal Investigator - All Lands Oklahoma
Principal Investigator - Bureau of Reclamation Great Plains Region
Principal Investigator - All Lands Idaho
Field Supervisor - BLM North Dakota
Field Supervisor - State North Dakota
Field Supervisor - Indian Lands North Dakota
Field Supervisor - BLM Montana
Field Supervisor - Indian Lands Montana
Field Supervisor - BLM South Dakota
Field Supervisor - Indian Lands South Dakota
Register of Professional Archaeologist - # 16254

Technical Experience

Wyoming

09/09 to present	ARCADIS U.S., Inc. Anchor Replacement Project (PacifiCorp). Principal Investigator, coordinating crews (2 people), supervising crews for approximately 30 acres of anchor replacement construction. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (contributing author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Late Prehistoric, Archaic. Lincoln County, Overthrust Belt, Wyoming.
09/09 to present	ARCADIS U.S., Inc. Rock Springs Road Transmission Line (PacifiCorp). Principal Investigator, coordinating crews (5 people), supervising crews for approximately 60 miles of transmission line right-of-way. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic (trails, debris), Late Prehistoric, Archaic. Sweetwater and Fremont Counties, Wyoming Basin, Wyoming.
04/09 to present	ARCADIS U.S., Inc. Jonah 3D Seismic (Global Geophysical Services). Principal Investigator, coordinating crews (5 to 10 people), supervising crews for approximately 14,400 acres of seismic exploration. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Archaic, Late Paleoindian. Sublette County, Upper Green River Basin, Wyoming.

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03/07 to present	<p>ARCADIS U.S., Inc. Trend Exploration I Wells. Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 21 wells and associated access. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic. Campbell County, Powder River Basin, Wyoming.</p>
12/06 to present	<p>ARCADIS U.S., Inc. Table Mountain I, II, III, IV PODs (Anadarko). Principal Investigator, coordinating crews (3 to 15 people), supervising crews for approximately 25,800 acres of coalbed methane plans of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered to date: Expansion Period Historic, Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic, Late Paleoindian. Johnson and Campbell Counties, Powder River Basin, Wyoming.</p>
11/06 to present	<p>ARCADIS U.S., Inc. Dry Willow IV, V PODs (Anadarko). Principal Investigator supervising crews (6 to 15 people) for natural gas well pads, pipelines, and access roads (20 section block survey). Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered to date: Expansion Period Historic, Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic, Late Paleoindian. Campbell County, Powder River Basin, Wyoming.</p>
11/09 to 12/09	<p>ARCADIS U.S., Inc. Hartzog Draw POD (Williams). Principal Investigator, coordinating crews (3 people), supervising crews for approximately 1,253 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (contributing author), management recommendations, follow-up, and quality assurance. Cultural resources encountered:</p>

Expansion Period Historic, Late Prehistoric, Late Archaic. Campbell County, Powder River Basin, Wyoming.

- 05/09 ARCADIS U.S., Inc. Grady 36 Pipeline right-of-way (Resolute).
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 640 acres of coal bed methane development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, unknown prehistoric. Campbell County, Powder River Basin, Wyoming.
- 05/09 ARCADIS U.S., Inc. True Oil Federal Wells.
Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 30 acres of coal bed methane development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, unknown prehistoric. Campbell County, Powder River Basin, Wyoming.
- 02/09 to
04/09 ARCADIS U.S., Inc. Thunder Basin Coal Mine.
Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 2,400 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: Historic Period, unknown prehistoric. Campbell County, Powder River Basin, Wyoming.
- 02/09 to
04/09 ARCADIS U.S., Inc. Brinkerhoff Federal POD (Marathon).
Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 68 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. Sheridan County, Powder River Basin, Wyoming.
- 02/09 ARCADIS U.S., Inc. Permit to Mine Willow Creek Area (Black Hills Bentonite).
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 28 acres of mine development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: none. Johnson County, Powder River Basin, Wyoming.
- 02/09 ARCADIS U.S., Inc. Termo Federal Well.
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 16.5 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: none. Campbell County, Powder River Basin, Wyoming.
- 01/09 ARCADIS U.S., Inc. Burgess 13 Federal POD (Marathon).

- Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 25 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. Sheridan County, Powder River Basin, Wyoming.
- 03/08 to 10/09 ARCADIS U.S., Inc. Kingwood III POD (Williams).
Principal Investigator, coordinating crews (3 to 10 people), supervising crews for approximately 4,354 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic. Campbell County, Powder River Basin, Wyoming.
- 07/07 to 10/09 ARCADIS U.S., Inc. West Bear POD (Williams).
Principal Investigator, coordinating crews (3 to 7 people), supervising crews for approximately 1,400 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Late Prehistoric lithic scatters. Johnson County, Powder River Basin, Wyoming.
- 09/08 to 01/09 ARCADIS U.S., Inc. Cedar Draw Unit III POD (Williams).
Principal Investigator, coordinating crews (3 to 10 people), supervising crews for approximately 3,315 acres of coalbed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic, Middle Archaic, Early Archaic, Late Paleoindian. Campbell County, Powder River Basin, Wyoming.
- 09/08 to 12/08 ARCADIS U.S., Inc. Bridger Butte Guyed Wire (Mountain Wind).
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 10 acres of guyed wire construction. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: none. Uinta County, Wyoming.
- 06/08 ARCADIS U.S., Inc. Meier Siding Project (Union Pacific).
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 27 acres of mine development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: none. Goshen County, Goshen Hole, Wyoming.
- 05/08 ARCADIS U.S., Inc. Leonardite Drilling Project (Black Hills Bentonite).
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 27 acres of mine development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS,

report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. Converse County, Powder River Basin, Wyoming.

- 05/08 to
06/08 ARCADIS U.S., Inc. Painted Hills Unit (Anadarko).
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 20 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: none. Fremont County, Wind River Basin, Wyoming.
- 06/08 to
10/08 ARCADIS U.S., Inc. True Oil Federal Wells.
Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 50 acres of coal bed methane development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, unknown prehistoric. Campbell County, Powder River Basin, Wyoming.
- 03/08 to
09/08 ARCADIS U.S., Inc. 12 Mile Ranch Wind Farm (PacifiCorp).
Principal Investigator, coordinating crews (3 to 5 people), supervising crews for approximately 60 acres of wind farm development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, unknown prehistoric. Albany County, Northern Laramie Structural Basin, Wyoming.
- 08/07to
06/08 ARCADIS U.S., Inc. JAB Uranium Exploration (Uranium One).
Principal Investigator, coordinating crews (5 people), supervising crews for cultural resource survey and testing for uranium development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Paleoindian, Late Archaic, Late Prehistoric. Sweetwater County, Great Divide Basin, Wyoming.
- 12/07to
01/08 ARCADIS U.S., Inc. Pine Gulch (Anadarko).
Principal Investigator, coordinating crews (2 people), supervising crews for cultural resource monitoring for well and access development. Tasks included setting budget parameters, pre-field coordination, records check, monitoring, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. Converse County, Powder River Basin, Wyoming.
- 11/07to
12/07 ARCADIS U.S., Inc. Salt Creek VI POD (Anadarko).
Principal Investigator, coordinating crews (2 people), supervising crews for survey of approximately 10 acres and testing for well and access development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. Natrona County, Powder River Basin, Wyoming.

08/07 ARCADIS U.S., Inc. Bass-Kurth Access and Water right-of-way (Black Diamond)
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 15 acres of pipeline. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic trails. Johnson County, Powder River Basin, Wyoming.

07/07 to 09/07 ARCADIS U.S., Inc. Kingsbury IV POD (Williams).
Principal Investigator, coordinating crews (3 to 11 people), supervising crews for approximately 3,800 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic. Campbell County, Powder River Basin, Wyoming.

07/07 to 10/07 ARCADIS U.S., Inc. Wormwood III POD (Williams).
Principal Investigator, coordinating crews (3 to 11 people), supervising crews for approximately 1,400 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Expansion Period Historic, Late Prehistoric, Late Archaic. Campbell County, Powder River Basin, Wyoming.

01/07 to 09/08 ARCADIS U.S., Inc. Pappy Draw Testing (EnCana).
Principal Investigator, coordinating multiple crews, supervising crews for evaluative testing of seven sites along a pipeline. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, Giddings probing, soil analysis, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Middle Archaic to Late Prehistoric house-pits, thermal features, cultural deposits, and activity areas. Fremont County, Wind River Basin, Wyoming.

05/07 to 06/07 ARCADIS U.S., Inc. Red Point 3D Seismic (Bill Barrett).
Principal Investigator, coordinating crews (6 people), supervising crews for approximately 3,127 acres of seismic exploration. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: Goshen, unknown cairns, Expansion Period Historic. Park County, Bighorn Basin, Wyoming.

06/07 to 07/07 ARCADIS U.S., Inc. Padlock Ranch (Windsor Energy)
Principal Investigator, coordinating crews (3 people), supervising crews for approximately 90 acres of coal bed methane plan of development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (contributing author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: none. Sheridan County, Powder River Basin, Wyoming.

- 01/07 ARCADIS U.S., Inc. Triangle Unit North construction monitoring (Citation).
Project Archaeologist supervising a one person crew for the monitoring of pipeline construction. Tasks included budget estimates, planning logistics, client and agency coordination, and report compilation (senior author). No cultural resources were encountered. Campbell County, Powder River Basin, Wyoming.
- 12/06 ARCADIS U.S., Inc. Horse Creek North added facilities (Winsor Energy).
Project Archaeologist supervising crew (2 people) for pipeline construction and access road (15 acres of linear survey). Tasks included budget estimates, planning logistics, and maintaining client and agency contacts. Served as senior author for final report. No cultural resources were encountered. Campbell County, Powder River Basin, Wyoming.
- 12/06 ARCADIS U.S., Inc. Sigma Tau added facilities (Anadarko).
Staff Archaeologist overseeing the completion of a small linear survey. Tasks included performing a Class I background and file search and client consultation. I concluded that no survey was required for the project thus no cultural resources were encountered. Johnson County, Powder River Basin, Wyoming.
- 12/06 ARCADIS U.S., Inc. Paul's Draw 3-D seismic survey (Trend).
Staff Archaeologist supervising crews (3 to 6 people) for 320 acres of linear survey. Cultural resources encountered: one small lithic scatter. Campbell County, Powder River Basin, Wyoming.
- 8/06 to 11/06 ARCADIS U.S., Inc. Dry Willow III POD (Anadarko).
Served as Staff Archaeologist supervising crews (3 to 8 people) for natural gas well pads, pipelines, and access roads (12 section block survey). Tasks included recording sites, making NRHP recommendations, and contributing to final report (co-author). Cultural resources encountered: historic homesteads, lithic scatters, prehistoric camps (hearths and FCR scatters). Campbell County, Powder River Basin, Wyoming.
- 6/01 to 7/01 George C. Frison Institute. Survey of Paint Rock Canyon.
Crew supervisor under the direction of Dr. Marcel Kornfeld during a backcountry rockshelter survey in the Bighorn Mountains of Wyoming. Supervised fieldwork, excavated features, collected samples, prepared site maps, and analyzed results. Cultural resources encountered: Unassigned prehistoric rockshelters and lithic scatters. Bighorn County, Wyoming.
- 5/01 to 6/01 George C. Frison Institute. Excavation at Hell Gap site.
Crew supervisor under the direction of Dr. Marcel Kornfeld. Supervised fieldwork, mapped the region using total mapping station, surveyed, excavated features, monitored trenching activity, collected samples, prepared site maps, and analyzed results. Cultural resources encountered: Frederick and Lusk Complexes. Goshen County, Wyoming.
- 8/00 to 5/01 George C. Frison Institute.
Crew Chief/Lab supervisor under Drs. Marcel Kornfeld, Mary Lou Larsen, and George Frison. Distributing work among employees and volunteers; identifying and cataloguing archaeological material; writing site reports using computer applications (Excel, Access, Surfer, SPSS).

- 8/00 to 12/00 Rick Reider Soil Lab, Laramie, WY.
Lab Assistant. Conducting soil analyses (sodium, pH, electrical conductivity, particle size) on Hell Gap, Agate Basin, Krmpotich, Finley, and Barger Gulch paleoindian sites in Wyoming and Colorado.
- 5/00 to 6/00 George C. Frison Institute. Excavation at Agate Basin site.
Crew chief. Surveyed excavated features, monitored trenching activity, collected samples, prepared site maps, analyzed results, co-authored final report. Cultural resources encountered: Agate Basin and Folsom Complexes. Niobrara County, Wyoming.
- 6/00 to 7/00 George C. Frison Institute. Excavation at Krmpotich site.
Crew Chief. Surveyed excavated features, monitored trenching activity, collected samples, prepared site maps, analyzed results, co-authored final report. Cultural resources encountered: Agate Basin and Folsom Complexes. Sweetwater County, Wyoming.
- California
- 01/09 to 11/09 ARCADIS U.S., Inc. Ft. Bragg Lumber Mill (Georgia-Pacific).
Co-Principal Investigator, coordinating crews (2 people), supervising crews for cultural monitoring of mill demolition. Tasks included setting budget parameters, pre-field coordination, records check, monitoring, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: Historic Period. Mendocino County, California.
- Colorado
- 08/09 to present ARCADIS U.S., Inc. Doe Canyon East Federal Wells (Bill Barrett).
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 47 acres of well and access construction. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. San Miguel County, Paradox Basin, Colorado.
- 08/09 to present ARCADIS U.S., Inc. Medinah Federal Wells (Bill Barrett).
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 24 acres of well and access construction. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. San Miguel County, Paradox Basin, Colorado.
- 08/09 to present ARCADIS U.S., Inc. Torrey Pines Federal Wells (Bill Barrett).
Principal Investigator, coordinating crews (2 people), supervising crews for approximately 23.5 acres of well and access construction. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: unknown prehistoric. San Miguel County, Paradox Basin, Colorado.

08/09 to 09/09	ARCADIS U.S., Inc. Grand Junction Airport Loop Pipeline (Public Service Co.). Co-Principal Investigator, coordinating crews (2 people), supervising crews for approximately 15 miles of well and access construction. Tasks included setting budget parameters, pre-field coordination, records check, survey, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: historic. Mesa County, Colorado.
11/08 to 02/09	ARCADIS U.S., Inc. Doe Canyon 3D Seismic (Bill Barrett). Principal Investigator, coordinating crews (8 people), supervising crews for approximately 2,730 acres of seismic exploration. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: Early Archaic San Pedro Middle Archaic, San Jose Middle Archaic, Late Archaic, Late Prehistoric, Basketmaker III, Pueblo II and III. Dolores County, Paradox Basin, Colorado.
09/08 to 10/08	ARCADIS U.S., Inc. Kawchack and Smith Federal Wells (St. Mary Land & Expl.). Principal Investigator, coordinating crews (2 people), supervising crews for approximately 96 acres of well and access construction. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Cultural resources encountered: none. Moffat County, Wyoming Basin, Colorado.
7/03 to 8/03	Southern Methodist University. Excavation of Mountaineer site. Field technician. Surveyed, excavated features, collected samples, and prepared site map. Cultural resources encountered: Folsom Complex. Gunnison County, Colorado.
Idaho	
10/09 to 12/09	ARCADIS U.S., Inc. Monsanto Blackfoot Bridge Mine (P4 Production). Co-Principal Investigator, coordinating crews (5 people), supervising crews for approximately 2,000 acres of mine development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (contributing author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: historic. Caribou County, Idaho.
10/09 to 12/09	ARCADIS U.S., Inc. Agrium Drilling (Agrium Conda Phosphate Ops.). Co-Principal Investigator, coordinating crews (5 people), supervising crews for approximately 3,800 acres of drilling development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (contributing author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: none. Caribou County, Idaho.
Kansas	
01/10 to present	ARCADIS U.S., Inc. Ft. Leavenworth Remediation (COE).

Principal Investigator for construction monitoring during hazardous material removal. Tasks included setting budget parameters, pre-field coordination, records check, photo-documentation, GIS, report preparation (Co Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: historic period. Leavenworth County, Kansas.

Montana

01/08 to 12/09 ARCADIS U.S., Inc. East Helena Smelter Demolition (ASARCO).
Co-Principal Investigator for historic photo-documentation. Tasks included setting budget parameters, pre-field coordination, records check, photo-documentation, historic research, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: historic period. Lewis and Clark County, Montana.

05/09 to 05/09 ARCADIS U.S., Inc. Cottonwood 3D Seismic (NFR Energy).
Co-Principal Investigator, and sole crewmember for approximately 10 miles of linear seismic exploration. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered unknown prehistoric stone circles. Hill County, Montana.

Oklahoma (selected projects)

09/07 to 12/09 ARCADIS U.S., Inc. Taloga Wind Farm (Edison Mission).
Principal Investigator, coordinating crews (10 people), supervising crews for survey of approximately 766 acres of transmission line and wind farm development. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered unknown prehistoric, historic farmsteads. Dewey County, Oklahoma.

11/07 ARCADIS U.S., Inc. Foss Reservoir 3-D Seismic (Global Geophysical Services).
Principal Investigator, coordinating crews (10 people), supervising crews for survey of approximately 7,000 acres of linear seismic exploration. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Senior Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered unknown prehistoric, historic dugouts. Custer County, Oklahoma.

2/06 to 6/06 Cojeen Archaeological Services. Samson 3-D seismic survey.
Co-Principal Investigator supervising 14 other archaeologists for 25 square mile project on USFS land. Planned logistics for 100% survey and shovel testing with 15 meter spaced transects, supervised fieldwork, analyzed results, and made recommendations for NRIHP inclusion in final report. Cultural resources encountered: Middle and Late Archaic, Woodland, and Late Prehistoric Complexes; Historic homesteads/farmsteads. Roger Mills County, Oklahoma.

8/05 to 3/06 University of Oklahoma. Pedestrian survey of Sand and Buffalo creeks.

- Co-Principal Investigator for 4 mile survey and shovel testing project on private land for the State Historical Society. Tasks included budget estimates, planned logistics, supervised fieldwork, analyzed results, and made recommendations for NRHP inclusion in final report. Cultural resources encountered: Woodland and Late Prehistoric Complexes; Historic homesteads. Harper County, Oklahoma.
- 9/05 Benham Companies Incorporated. City of Ardmore Water System Improvements. Project Archaeologist supervising 1 other archaeologist for survey and shovel testing 1 square mile project. Tasks included budget estimates, planning logistics, making NRHP recommendations, and serving as senior author for final report. Cultural resources encountered: None. Carter County, Oklahoma.
- 7/05 to 9/05 Cojeen Archaeological Services. Archeological Survey of the Cholla Petroleum, Inc. Proposed PK Under The Hill # 2 and # 3 Wells and Access. Project Archaeologist supervising crew for survey and shovel testing well pads and access road (20 acres of block survey). Planned logistics, supervised fieldwork, analyzed results, and made recommendations for NRHP inclusion in final report. Cultural resources encountered: None. Palo Pinto County, Texas.
- 10/05 Cojeen Archaeological Services. Frontline GeoServices Proposed Woods Creek 2D Seismic Line. Project Archaeologist supervising crew for 10 miles of linear survey and shovel testing on USFS land. Planned logistics, supervised fieldwork, analyzed results, and made recommendations for NRHP inclusion in final report. Cultural resources encountered: Unknown Prehistoric lithic scatters and burned rock features. LeFlore County, Oklahoma.
- 8/04 Cojeen Archaeological Services. Archeological Testing at Archeological Site 34GR197. Project Archaeologist supervising 7 crewmembers for site testing. Excavated features, collected samples, prepared site map, supervised fieldwork, analyzed results, and made recommendations for NRHP inclusion in final report. Cultural resources encountered: Unknown Prehistoric lithic scatters. Greer County, Oklahoma.
- 6/04 to 7/04 University of Oklahoma. Excavation of Jake Bluff site. Crew Chief supervising 12 crewmembers. Excavated features, collected samples, prepared site map, supervised fieldwork, and analyzed results. Cultural resources encountered: Folsom and Clovis Complexes. Harper County, Oklahoma.
- 6/02 to 7/02 Oklahoma Archeological Survey. Graduate Assistant. Tasks included updating state sites database under the supervision of Robert Brooks, State Archaeologist.
- 01/00 University of Oklahoma Field Technician. Arroyo survey under the supervision of Dr. Leland Bement. Tasks included survey and shovel testing. Cultural resources encountered: none. Beckham County, Oklahoma.
- 8/1999 Cojeen Archaeological Services. Mitigation at the Duke Site (Duke Energy). Crew Chief supervising 9 crewmembers for excavation. Excavated features, collected samples, prepared site map, and submitted descriptions of materials

collected. Additional duties included laboratory analysis, identification, and curation of artifacts. Cultural resources encountered: pithouses, hearths, human remains, lithics, animal bone, pottery at a Wichita camp. McClain County, Oklahoma.

Texas

- 03/10 to present ARCADIS U.S., Inc. Goodwell Wind Farm (Duke Energy).
Principal Investigator, whose tasks will comprise coordinating and supervising crews for survey of approximately 15.5 miles of transmission line and 133 wind turbines. Tasks will include setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation, management recommendations, follow-up, and quality assurance. Hansford County, Texas.
- 01/09 to 08/09 ARCADIS U.S., Inc. Ft. Bliss EA (U.S. Army).
Served as the technical expert making contributions to the overall quality of the cultural resources chapters in the EA.
- 01/05 to 12/05 Geo-Marine Incorporated. Site testing
Field Technician. Excavated features, collected samples, and prepared site map. Cultural resources encountered: Unknown Prehistoric fire-cracked rock features. Tarrant County, Texas.
- 7/05 Gonzalez, Tate, and Iruegas, Inc. Archaeological Testing at Six Archaeological Sites. Field Archaeologist for Phase II testing of multiple prehistoric sites to assess their significance for National Register status. Cultural Resources encountered: Paleo-Indian and Archaic camp and quarry sites. Maverick County, Texas
- 6/03 to 7/03 Southern Methodist University. Excavation of Hot Tubb site.
Field technician. Excavated features, collected samples, and prepared site map. Cultural resources encountered: Folsom Complex. Crane County, Texas.

Utah

- 09/07 to 01/09 ARCADIS U.S., Inc. Utah Transmission Lines (PacifiCorp).
Co-Principal Investigator, coordinating crews (5 to 15 people), supervising crews for approximately 400 miles of transmission line for vegetation management. Tasks included setting budget parameters, pre-field coordination, records check, survey, testing, lab analysis, GIS, report preparation (Author), management recommendations, follow-up, and quality assurance. Cultural resources encountered: historic irrigation ditches, historic roads and trails, historic debris, rock art, house pits, Emery Gray pottery (Fremont), thermal features, manos/metates, Early Archaic projectile points, Late Archaic projectile points, Anasazi. Juab, Carbon, Emery, Sevier, Piute, Garfield, Iron, Washington, and San Juan Counties, Utah.

Teaching experience

- 1/04 to 5/05 University of Oklahoma. Stand-Alone Teaching.
ANTH 1413 Great Discoveries in Archaeology. Introduces students to the accomplishments of ancient civilizations around the world. A brief overview of archaeological methods and research and of the precursors of civilizations. Concentrates on major civilizations of the world including Mesopotamia, Europe,

Egypt, sub-Saharan Africa, India, China, Southeast Asia, Mesoamerica, South America, and the North American Midwest.

- 1/03 to 12/03 University of Oklahoma. Teaching Assistant.
ANTH 1413 Great Discoveries in Archaeology (under Drs. Thomas Pluckhahn and Lisa Lecount).
- 8/02 to 12/02 University of Oklahoma. Teaching Assistant.
ANTH 1613 Indians of Oklahoma (under Dr. Robert Fields). A general introduction to the traditional cultures and current condition of the 38 diverse Native American groups now resident in Oklahoma.
- 8/01 to 12/01 University of Wyoming. Teaching Assistant.
ANTH 1300 Introduction to Archaeology (under Dr. Matt G. Hill). Explores ways in which prehistoric material remains can provide an understanding of the cultural way of life. General background in archaeological method and theory is used to examine case studies from throughout the world, based on themes such as ceramic technology and artistry development, growth of early civilizations and North American prehistory.
- 1/01 to 5/01 University of Wyoming. Teaching Assistant.
ANTH 4110 Zooarchaeology I (under Dr. Marcel Kornfeld). An introductory level seminar in the archaeological analysis of faunal materials. Emphasis is on the identification and curation of bones from archaeological and Late Pleistocene paleontological contexts, including their use in the interpretation of prehistoric and historic human behavior, the investigation of paleoenvironmental conditions and paleoecological relationships and problem-oriented taphonomic research.

IV. PUBLICATIONS

- 2006 The JS Cache: An Early Paleoindian Tool Cache from the Oklahoma Panhandle. *Current Research in the Pleistocene* 23:103-105.
- 2001 (with Kornfeld, Frison, Haynes, and Lorentzen) Preliminary report on the 2000 season excavation of the Agate Basin site. *George C. Frison Institute of Archaeology and Anthropology, Technical Report No. 19a*, Department of Anthropology, University of Wyoming.
- 2001 (with Kornfeld, Lorentzen, and Frison) Preliminary report on the 2000 season excavation of the Krmopotich site. *George C. Frison Institute of Archaeology and Anthropology, Technical Report No. 19b*, Department of Anthropology, University of Wyoming.

V. UNPUBLISHED REPORTS

- 2004 to present Co-Author for reports on all projects listed in the above "Technical Experience" section.
- 2006 Gypped! Pedestrian Survey of Sand and Buffalo Creeks, Harper County, Oklahoma. Oklahoma Archeological Survey Report, University of Oklahoma, Norman.

- 2004 Adam Graves, Leland Bement, and John Landsdown. Preliminary results of elemental analysis of bison teeth. On file at the Oklahoma Archeological Survey, University of Oklahoma, Norman.
- 2003 Adam Graves, Leland Bement, and George Morgan. Preliminary results of strontium analysis of bison teeth. On file at the Oklahoma Archeological Survey, University of Oklahoma, Norman.

VI. PAPERS PRESENTED

- 2007 Guest lecturer for the Bureau of Land Management's SHPO, Contractor, and Operators Meeting. Discussed recent trends in survey methods in the Powder River Basin Wyoming, and new discoveries based on a concentrated effort to identify potentially eligible sites in buried settings that have largely gone undocumented.
- 2006 Modern Trace Element Distribution and its Implications for Ancient Bison Movement. Paper presented at the 64th Plains Anthropological Conference, Topeka, Kansas.
- 2005 Climate, Grasses, Bison, and Humans on the U.S. Southern Plains during the Early Paleoindian Occupation (11,900 – 10,200 B.P.). Poster presented at the 70th Meeting of the Society for American Archaeology, Salt Lake City, Utah.
- 2004 Varney, R.A., Brian Carter, Adam Graves, and Leland Bement. Archaeoclimate Modeling and the Paleoenvironmental Record on the Southern High Plains: The Bull Creek Site, Beaver County, Oklahoma. Paper presented at the 62nd Plains Anthropological Conference, Billings, Montana.
- 2004 Bison Dentistry: Look What a Quick Yank and a Laser Can Do. Paper presented at the 62nd Plains Anthropological Conference, Billings, Montana.
- 2002 Determining the Origins of Mammoth Sites: an Examination of Carnivore Use, Weathering, Bone Representation, and Age Profiles. Paper presented at the 60th Plains Anthropological Conference, Oklahoma City, Oklahoma.
- 2001 A Preliminary Report of the 2000 Investigations at Agate Basin Site, Wyoming: Faunal Analysis. Paper presented at the 59th Plains Anthropological Conference, Lincoln, Nebraska.
- 2001 A Preliminary Report of the 2000 Investigations at Agate Basin, Wyoming: Faunal Analysis. Paper presented at the Wyoming Archaeological Society Spring Meeting, Laramie, Wyoming.
- 2000 Marcel Kornfeld, Nicole Waguespack, Todd Surovell, James Mayer, Adam Graves, and George Frison. Krmptich Site: Folsom Investigations in SW Wyoming. Poster presented at the 58th Plains Anthropological Conference, St. Paul, Minnesota.
- 1999 Trace Element Analysis to Determine Bison Movement. Paper presented at the University of Oklahoma Undergraduate Research Day.

VII. ADDITIONAL TRAINING

40-hour HAZWOPER (current)

- 04/16/2009 Cultural Consultant Workshop (BLM, Rock Springs Field Office).
This training discussed examples of preferred ways of field reporting. In addition, this training discussed how to systematically identify, describe, and analyze visual impacts to cultural resources.
- 01/08 to
05/08 Certified Project Management Training (University of California Los Angeles).
This course integrates project management theory with practical approaches to establish a fundamental knowledge base to use in a contemporary dynamic business environment. Project management concepts are explored from planning and selection through all aspects of the project life cycle. Practical techniques are developed to organize and control non-routine activities in order to properly manage and schedule quality, budget, and performance objectives.
- 09/30/08 Wyoming SHPO Historic Architecture Training (Laramie, Wyoming).
This training provides an introduction to finding, identifying, and describing historic architecture.
- 03/07/08 Wyoming SHPO Historic Context Training (Sheridan, Wyoming).
This training provides an introduction to finding, identifying, and describing historic cultural resources in a large contextual setting.
- 2008 Archaeology Contractor Meeting (BLM, Buffalo Field Office).
This training discussed what happens to cultural reports once they are sent to the BLM, the new Wyoming BLM permit conditions, better ways to prepare and provide cultural inventory project report maps, common cultural report requests and issues, and the extent of BLM responsibility over actions occurring on non-federal lands.
- 2007 BLM/SHPO, Contractor, and Operators Meeting (Casper, Wyoming)
Discussed BLM and SHPO protocol for processing cultural resource reports.

VIII. REFERENCES

- Dr. Leland Bement Email: lbement@ou.edu
Oklahoma Archaeological Survey, University of Oklahoma, Norman
- Dr. Susan Vehik Email: svehik@ou.edu
Department of Anthropology, University of Oklahoma, Norman
- Dr. Marcel Kornfeld Email: anpro1@uwyo.edu
Department of Anthropology, University of Wyoming, Laramie
- Dr. Robert Kelly Email: RLKelly@uwyo.edu
Department of Anthropology, University of Wyoming, Laramie
- Christopher Cojeen, MA Email: cojeen@telepath.com
Cojeen Archaeological Services, Norman, Oklahoma

Ashley Howder

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Ashley.Howder@ARCADIS-US.com

I. Educational Background

2008	B.A.	Indiana University, Bloomington	Anthropology
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II. Professional Experience

Cultural Resource Management—Private Contract Firms

Wyoming

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| 4/2011 | Converse County
ARCADIS U.S., Inc.: SM Energy Company contracted ARCADIS to conduct a Class III cultural resource inventory of the proposed Bridger Federal 1-23H Well and Access project. <ul style="list-style-type: none">• Field Director• Report Author |
| 4/2011 | Converse County
ARCADIS U.S., Inc.: True Oil LLC. contracted ARCADIS to conduct a Class III cultural resource inventory of the proposed Martin Federal Well #33-3 and Access project. <ul style="list-style-type: none">• Field Director• Report Author |
| 4/2011 | Converse County
ARCADIS U.S., Inc.: SM Energy Company contracted ARCADIS to conduct a Class III cultural resource inventory of the proposed Discovery Federal 1-35H Well and Access project. <ul style="list-style-type: none">• Field Director• Report Author |
| 3/2011 | Johnson County
ARCADIS U.S., Inc.: Williams Production RMP Company contracted ARCADIS to conduct a Class III cultural resource inventory of the proposed Vista WMP Sundry project. <ul style="list-style-type: none">• Field Director• Report Co-Author |
| 7-10/2010 | Campbell County
ARCADIS U.S., Inc.: Thunder Basin Coal Company contracted ARCADIS to conduct a Class III cultural resource inventory of the proposed Scoria Mine project. <ul style="list-style-type: none">• Crew Chief• Report Co-Author |
| 3/2010 | Campbell County
ARCADIS U.S., Inc.: Because several of ARCADIS' projects are located within two miles of the Pumpkin Buttes Traditional Cultural Property boundary, ARCADIS performed ten visual contrast rating assessments from the tops of North Butte and South Butte to determine the visual impact rating. <ul style="list-style-type: none">• VCR Assessment Worksheets Author• Field Technician: performed visual contrast assessment and prepared VCR forms• GIS Technician: completed KOP location maps |

- 3/2010 Crook County
ARCADIS U.S., Inc.: True Oil, LLC. contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the proposed Davis Federal 42-18 Well and Access.
- Report Co-Author
 - Field Technician: performed block and linear survey
 - GIS Technician: completed project map
- 3/2010 Campbell County
ARCADIS U.S., Inc.: Trend Exploration I, LLC. contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the proposed Federal Well #34-8 and access in the Powder River Basin.
- Report Co-Author
 - Field Technician: performed block and linear survey
 - GIS Technician: completed project map
- 12/2009-4/2010 Campbell & Johnson Counties
ARCADIS U.S., Inc.: Anadarko Petroleum Corporation contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the proposed Table Mountain Phase II Plan of Development.
- Report Co-Author
 - Field Technician: performed block and linear survey, including field site recordation, site form completion, pre-field coordination, records check, and contributed to eligibility and management/avoidance recommendations for inclusion in final report
- 11/2009 Campbell County
ARCADIS U.S., Inc.: Trend Exploration I LLC contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory for the proposed Trend Exploration I LLC Federal Wells #22-8A and #33-38 Well Pad construction and access in the Powder River Basin.
- Report Co-Author
 - Field Technician: performed block and linear survey; pre-field coordination and records check
 - GIS Technician: prepared project map
- 11/2009 Johnson and Campbell Counties
ARCADIS U.S., Inc.: Williams Production RMT Company contracted ARCADIS U.S., Inc. for completion of a Class III cultural resource inventory and report production for the Hartzog Draw Federal Plan of Development in the Powder River Basin.
- Report Author: including mitigation/avoidance recommendations
 - Pre-Field Coordination: including records checks for additional survey area
 - Preparation of all Wyoming Cultural Properties Forms (field-recorded prior to my project involvement) for submittal to BLM
- 10/2009-11/2009 Sweetwater and Fremont Counties
ARCADIS U.S., Inc.: PacifiCorp contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory and impact assessment of exiting grading for the PacifiCorp Rock Springs Road ROW Project. Cultural resources encountered: 19 new prehistoric and historic sites, 23 previously recorded prehistoric and historic sites requiring update, and 15 isolated resources in 34.5 miles (1,209 acres) of linear survey in the Green River Basin. Cultural resource types include Early Archaic, Middle Archaic (one Yonkee series projectile point), Late Archaic and Late Prehistoric open camps, lithic scatters, intact surface and subsurface hearth features, historic debris scatters, historic trails (variations of the Oregon, Mormon, Emigrant, and Pony Express Trails and the Rock Springs Road), and South Pass (National Historic Landmark).
- Report Co-Author

- Co-Crew Chief: logistical planning and fieldwork co-supervision, including pre-field coordination, records check, survey and site recordation, completion of all Wyoming Cultural Properties Forms, contributed to eligibility and management recommendations for inclusion in final report
- Curation and cataloging of collected artifacts using UWAR standards

9/2009-
10/2009

Sublette

ARCADIS U.S., Inc.: Global Geophysical Services contracted ARCADIS U.S., Inc. to conduct archaeological monitoring of the proposed Global Jonah 3D Seismic Plan of Development in the Green River Basin.

- Crew Chief (Special Permit, BLM PFO)
- Archaeological monitor during seismic cable placement

3/2009-
10/2009

Sublette and Fremont Counties

ARCADIS U.S., Inc.: Global Geophysical Services contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the proposed Global Jonah 3D Seismic Plan of Development in the Green River Basin. Cultural resources encountered: 96 new sites, 38 previously recorded sites, and 312 isolated finds in 108,800 acres of linear survey. Cultural periods encountered include the full range of temporal periods, from Paleo-Indian to historic, and include lithic scatters, open camps, lithic reduction and processing locals, several prehistoric cairns, and historic debris scatters. Temporally-linked diagnostic artifacts encountered include Rose Spring series corner-notched projectile points, Pinto series square-shouldered projectile points, Elko Series corner-notched and eared projectile points, and artifact linked to the McKean complex.

- Report Co-Author
- Co-Crew Chief: logistical planning and fieldwork co-supervision under the supervision of N. Graves (approximately 60% of the project), including pre-field coordination
- Field Technician: performed survey and site recordation and mapping when field crews were lead by N. Graves (approximately 40% of the project)
- Preparation of Wyoming Cultural Properties Forms, including site recordation, completion of forms, and eligibility and management recommendations for inclusion in final report
- Curation and cataloging of several hundred collected artifacts using UWAR standards

12/2008-
4/2009,
2/2010
Ongoing

Campbell County

ARCADIS U.S., Inc.: Williams Productions RMT Company contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the proposed Pumpkin Buttes Phase 1 Plan of Development in the Powder River Basin.

- Report Co-Author: (in progress)
- Co-Crew Chief: logistical planning and fieldwork co-supervision
- Preparation of Wyoming Cultural Properties Forms, including site recordation and mapping, completion of forms, plan view drawings, and eligibility and management recommendations for inclusion in final report

11/2008-
3/2009,
1/2010

Campbell County

ARCADIS U.S., Inc.: Williams Productions RMT Company contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the proposed Wormwood Phase 2 Plan of Development in the Powder River Basin

- Report Co-Author
- Co-Crew Chief: logistical planning and fieldwork co-supervision, including pre-field coordination, site recordation, eligibility/management recommendations for inclusion in final report

- 2/2009 Campbell County
ARCADIS U.S., Inc.: Thunder Basin Coal Company contracted *ARCADIS U.S., Inc.* to conduct a Class III cultural resource inventory of the proposed West Coal Creek LBA in the Powder River Basin.
- Report Co-Author
 - Co-Crew Chief: logistical planning and fieldwork co-supervision, including pre-field coordination, site recordation, eligibility/management recommendations for inclusion in final report
- 7/2008-1/2009 Campbell and Johnson Counties
ARCADIS U.S., Inc.: Anadarko Petroleum Corporation contracted *ARCADIS U.S., Inc.* to conduct a Class III cultural resource inventory of the proposed Dry Willow V Plan of Development in the Powder River Basin.
- Report Co-Author
 - Field Technician: performed survey and site recordation and mapping, including eligibility and management recommendations for inclusion in final report
- 8-10/2008 Campbell County
ARCADIS U.S., Inc.: Williams Production RMT Company contracted *ARCADIS U.S., Inc.* to conduct a Class III cultural resource inventory of the proposed Cedar Draw 3 Plan of Development in the Powder River Basin.
- Report Co-Author
 - Field Technician: performed survey and site recordation and mapping, including eligibility and management recommendations for inclusion in final report

Colorado

- 9/2009 Mesa County
ARCADIS U.S. Inc.: Public Service Company of Colorado contracted *ARCADIS U.S., Inc.* to conduct a Class III cultural resource inventory of the proposed Grand Junction Airport Loop Pipeline project in western Colorado.
- Field Technician: performed survey and site recordation and mapping, including eligibility recommendations for inclusion in final report
- 9/2008 Moffat County
ARCADIS U.S. Inc.: St. Mary Land & Exploration Company contracted *ARCADIS U.S., Inc.* to conduct a Class III cultural resource inventory of the proposed Kawchack Federal and Smith Federal Wells.
- Report Author
 - Field Technician: performed survey and pre-field coordination
- 11/2008-2/2009 Dolores County
ARCADIS U.S. Inc.: Bill Barrett Corporation contracted *ARCADIS U.S., Inc.* to conduct a Class III cultural resource inventory of the proposed Doe Canyon 3D Seismic Prospect.
- Report Co-Author
 - Field Technician: performed survey and site recordation and mapping, including eligibility and management recommendations for inclusion in final report

Idaho

- 10/2010 Bingham and Butte Counties
ARCADIS U.S., Inc.: PacifiCorp-Rocky Mountain Power contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the proposed Antelope to Goshen Transmission Line Maintenance Project.
- Field Technician
- 5/2010 Shoshone County
ARCADIS U.S., Inc.: Union Pacific Railroad Company contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the Wallace Yard Site.
- Field Technician
- 5/2010 Shoshone County
ARCADIS U.S., Inc.: Union Pacific Railroad Company contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the proposed Spur Lines Project.
- Field Technician
- 10/2009 Caribou County
ARCADIS U.S., Inc.: P4 Production LLC contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the proposed Monsanto Blackfoot Bridge Mine project in southeast Idaho.
- Co-Crew Chief: logistical planning and field supervision
- 10/2009 Caribou County
ARCADIS U.S., Inc.: Agruim Conda Phosphate Operations contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory of the proposed Agruim Husky 1 and North Dry Ridge Exploration Drilling Plan project in southeast Idaho.
- Co-Crew Chief: logistical planning and field supervision

Oklahoma

- 2/2009-
4/2009 Dewey County
- ARCADIS U.S., Inc.*: Edison Mission Energy contracted ARCADIS U.S., Inc. to complete a Class III cultural resource inventory for the proposed Taloga Wind Farm Project in west-central Oklahoma. Cultural resources encountered: 5 new historic sites and 5 isolated finds during 766 acres of combination block and linear survey. Site types encountered include historic debris and trash dumps, cemeteries with potential historic significance, and historic structures.
- Report Co-Author
 - Co-Crew Chief: logistical planning and fieldwork co-supervision, including recording sites and preparing Wyoming Cultural Properties Forms and eligibility and management recommendations

Utah

- 10/2008-
3/2009 San Juan County
ARCADIS U.S., Inc.: PacifiCorp contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory for vegetation management of the existing PacifiCorp Pinto-Abajo 138kV Transmission Line in southeast Utah.
- Report Author
- 10/2008-
3/2009 San Juan County

ARCADIS U.S., Inc.: PacifiCorp contracted ARCADIS U.S., Inc. to conduct a Class III cultural resource inventory for vegetation management of the existing PacifiCorp Pinto-Abajo 69kV Transmission Line in southeast Utah.

- Report Author

Academically Funded—Individual and Group Research

Wyoming

6/2008-8/2008 Teton, Park, Sublette, Fremont, and Hot Springs Counties

Indiana University Archaeological Field School. Recordation of high elevation Shoshone sheep traps and associated occupational areas in the Greater Yellowstone Ecosystem. Sites included extensive post-forest burn analysis of known and newly discovered sheep traps to assess the impacts of fire to these cultural resources, and to better document post-fire exposed artifacts and domestic areas near known sheep traps. Special emphasis was placed on issues of Shoshone association to sheep traps and how future documentation of these connections can help date and expand understanding of these unique sites, both pre- and post-burn. Analysis of such sites included the documentation and mapping of newly discovered wickiups, osteological processing sites, associated cairns and blinds, and domestic occupations, and sourcing and curation of obsidian tools, steatite vessel fragments and Intermountain ware ceramics.

- Served as Staff Archaeologist. Duties included:
 - Support for field directors
 - Preparation of site surveys, GPS work, mapping, field planning, logistical planning of students, camp supplies, field supplies, etc.
 - Leading small-scale survey groups and oversaw student work, primarily in the Absaroka and Wind River Ranges

5/2007-7/2007 Teton, Park, Sublette, Fremont, and Hot Springs Counties

Indiana University Archaeological Field School. Recordation of high elevation Shoshone sheep traps and associated occupational areas in the Greater Yellowstone Ecosystem. Sites included extensive post-forest burn analysis of known and newly discovered sheep traps to assess the impacts of fire to these cultural resources, and to better document post-fire exposed artifacts and domestic areas near known sheep traps. Special emphasis was placed on issues of Shoshone association to sheep traps and how future documentation of these connections can help date and expand understanding of these unique sites, both pre- and post-burn. Analysis of such sites included the documentation and mapping of newly discovered wickiups, osteological processing sites, associated cairns and blinds, and domestic occupations, and sourcing and curation of obsidian tools, steatite vessel fragments and Intermountain ware ceramics.

- Served as Staff Archaeologist. Duties included:
 - Support for field directors
 - Preparation of site surveys, GPS work, mapping, field planning, logistical planning of students, camp supplies, field supplies, etc.
 - Leading small-scale survey groups and oversaw student work, primarily in the Bridger-Teton National Forest.

Montana

5/2007 Bighorn County

Indiana University Archaeological Field School. Extensive recordation of stone circle occupational sites in Bighorn Canyon National Recreation Area, including collaborative studies with the Crow tribal members and students from Little Bighorn College, the local Crow tribal college, to explore the historical and social landscapes of the Greater Yellowstone Ecosystem along Bighorn Canyon and the significant Bad Pass Trail. Mapping of stone circles, or "tipi rings," using several methods, including hand mapping and survey-grade GPS to obtain a better understanding of how these domestic sites relate to the greater social landscape of the area. Limited evaluative testing and sourcing of obsidian was also performed.

- Served as Staff Archaeologist. Duties included:
 - Support for field directors
 - Preparation of site surveys, GPS work, mapping, field planning, logistical planning of students, camp supplies, field supplies, etc.
 - Leading small-scale survey groups and oversaw student work in Bighorn Canyon National Recreation Area.

III. Publications

IV. Unpublished Reports

4/2011	<i>Report Author:</i> Class III Cultural Resource Inventory, SM Energy Company Bridger Federal 1-23H Well and Access
4/2011	<i>Report Author:</i> Class III Cultural Resource Inventory, True Oil LLC. Martin Federal Well #33-3 and Access
4/2011	<i>Report Author:</i> Class III Cultural Resource Inventory, SM Energy Co. Discovery Federal 1-35H Well and Access
3/2011	<i>Report Co-Author:</i> Class III Cultural Resource Inventory, Williams Production RMP Co. Vista WMP Sundry
11/2010	<i>Report Co-Author:</i> Class III Cultural Resource Inventory, Thunder Basin Coal Company Scoria Mine Project
3/2010	<i>Report Co-Author:</i> Class III Cultural Resource Inventory, True Oil, LLC. Davis Federal #42-18 Well and Access
12/2009-4/2010	<i>Report Co-Author:</i> Class III Cultural Resource Inventory, Anadarko Petroleum Corporation Table Mountain II Plan of Development
11/2009	<i>Report Co-Author:</i> Class III Cultural Resource Inventory Report, Trend Exploration I LLC Federal Wells #22-8A and #33-38 Well Pads
11/2009	<i>Report Author:</i> Class III Cultural Resource Inventory Report, Hartzog Draw Federal Plan of Development
10-11/2009	<i>Report Co-Author:</i> Class III Cultural Resource Inventory Report, Rock Springs Road ROW Project
3-9/2009	<i>Report Co-Author:</i> Class III Cultural Resource Inventory Report, Global Jonah Seismic
12/2008-4/2009	<i>Report Co-Author:</i> Class III Cultural Resource Inventory Report, Pumpkin Buttes Phase 1 Plan of Development
10/2008-3/2009	<i>Report Author:</i> Class III Cultural Resource Inventory Report, PacifiCorp Pinto-Abajo 138kV Transmission Line
10/2008-3/2009	<i>Report Author:</i> Class III Cultural Resource Inventory Report, PacifiCorp Pinto-Abajo 69kV Transmission Lines
2/2009	<i>Report Co-Author:</i> Class III Cultural Resource Inventory Report, West Coal Creek LBA
9/2008	<i>Report Author:</i> Class III Cultural Resource Inventory Report, Kawchack Federal and Smith Federal