

**ADDENDUM 3.8-A**  
**HISTORIC AND CULTURAL RESOURCES REPORT**

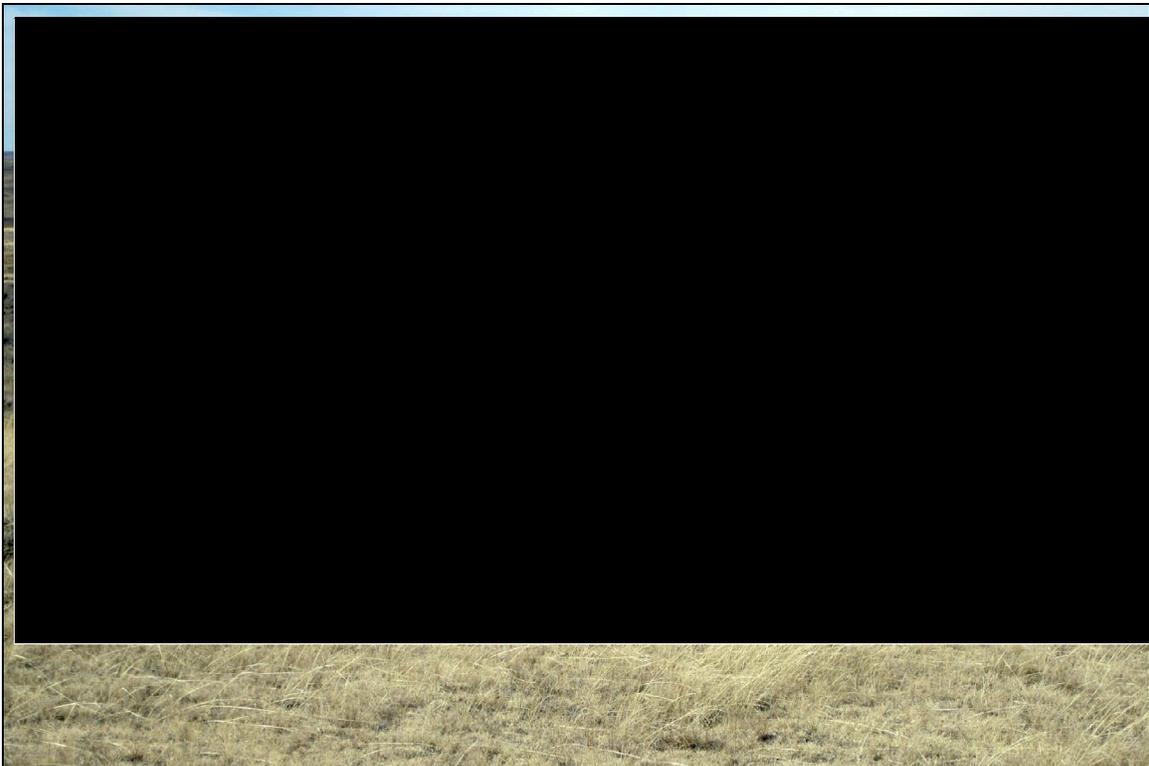
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**AN INTENSIVE CULTURAL RESOURCE SURVEY  
OF THE  
AUC LLC,  
RENO CREEK  
URANIUM PROJECT,  
CAMPBELL COUNTY, WYOMING**

by

Mavis Greer and John Greer  
*Greer Services*  
*Casper, Wyoming*  
Report 7063



August 2011

**SURVEY REPORT COVER PAGE**

**DBI\_WY\_2011\_700 (DEQ-WY, NRC)**

Consultant Project No: <b>Greer #7063</b>	Agency No:
Review And Compliance No:	Cultural Records Office No: <b>25828, 25829, 25830, 25831, 62408</b>

**AUTHOR(S):** **Mavis Greer and John Greer**

**REPORT TITLE:** *An Intensive Cultural Resource Survey of the AUC LLC, Reno Creek Uranium Project, Campbell County, Wyoming.*

DATE OF REPORT (MO/DY/YR): **08/30/2011**

LEAD AGENCY: **DEQ-WY and Nuclear Regulatory Commission**

SURVEY ORGANIZATION/NAME: **Greer Services**

FEDERAL PERMIT NO: **016-WY-SR10 (3/1/2013)**

DESCRIPTION OF UNDERTAKING: **Uranium development is planned within a 6059-acre block, 3596 acres of which required new survey.**

COUNTY: **Campbell**

USGS QUAD MAPS: **Baker Spring (1:24000); Rattlesnake Draw (1:24000)**

**LEGAL DESCRIPTION:**

Township	Range	Section	Aliquot
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

ACTIVITIES: **Literature Review, Class III Survey**

**OWNER, INVENTORY METHOD:**

Owner	Protocol	Acres	Description
<b>State</b>	<b>Class III</b>	<b>640</b>	
<b>Private</b>	<b>Class III</b>	<b>2956</b>	

FILE SEARCH DATES: **06/07/10 (#25828, #25829, #25830, #25831)**

FIELD WORK DATES: **08/15/2010 - 08/17/2011**  
FIELD PERSONNEL CREW CHIEF: **Dr. John Greer, Dr. Mavis Greer**  
CREW: **None**

RESULTS: **33 Sites, 46 Isolated Resources**

TYPES RECORDED: **Sites, Isolated Resources**



**SITE SUMMARY TABLE (Field Agent Use)**

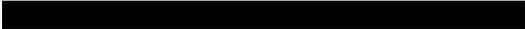
**DBI\_WY\_2011\_700**

**Lead Agency #:**

**Field Org. #: Greer #7063**

Site/IR #	Site Type	Prev Rec	Prev Eligibility	SHPO Concur	Current Eligibility	Criteria	Contrib?	In APE Y/N	Collect Y/N	Owner	T	R	S
Proposed Mitigation			Comments							1/4's			
48CA2775	Site	Y	Not eligible	Y	Not eligible		N	N					
[Redacted]			[Redacted]							[Redacted]			
48CA4868	Linear Resource	Y	Not eligible	Y	Not eligible		N	N					
No further work			[Redacted]							[Redacted]			
48CA5077	Site	Y	Not eligible	Y	Not eligible		N	N	N				
No further work			[Redacted]							[Redacted]			
48CA7084	Site	N	No previous eligibility	N	Not eligible		N	N	N				
No further work			[Redacted]							[Redacted]			
48CA7085	Site	N	No previous eligibility	N	Not eligible		N	N	N				
No further work			[Redacted]							[Redacted]			





**SITE SUMMARY TABLE (Field Agent Use)**

**DBI\_WY\_2011\_700**

**Lead Agency #:**

**Field Org. #: Greer #7063**

48CA7086	Site	N	No previous eligibility	N	Not eligible		N	N	N				
No further work													
48CA7087	Site	N	No previous eligibility	N	Not eligible		N	N	N				
No further work													
48CA7088	Site	N	No previous eligibility	N	Not eligible		N	N	N				
No further work													
48CA7089	Site	N	No previous eligibility	N	Not eligible		N	N	N				
No further work													
48CA7090	Site	N	No previous eligibility	N	Not eligible		N	N	N				
No further work													
48IR1	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR2	Isolate	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR3	Isolate	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR4	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.													





**SITE SUMMARY TABLE (Field Agent Use)**

**DBI\_WY\_2011\_700**

**Lead Agency #:**

**Field Org. #: Greer #7063**

48IR5	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.										c/se/sw/nw/sw			
48IR6	Isolate	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR7	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR8	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR9	Isolate	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR10	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR11	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR15	Isolate	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR18	Isolate	N	No previous eligibility		Not eligible		N	N	N				
No further work.													





SITE SUMMARY TABLE (Field Agent Use)

DBI\_WY\_2011\_700

Lead Agency #:

Field Org. #: Greer #7063

48IR19	Isolate	N	No previous eligibility		Not eligible		N	N	N	██████	██	██	██
No further work.										████████████████████			
48IR20	Isolate	N	No previous eligibility		Not eligible		N	N	N	██████	██	██	██
No further work.										████████████████████			
48IR22	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N	██████	██	██	██
No further work.										████████████████████			
48IR23	Isolate	N	No previous eligibility		Not eligible		N	N	N	██████	██	██	██
No further work.										████████████████████			
48IR25	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N	██████	██	██	██
No further work.										████████████████████			
48IR26	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N	██████	██	██	██
No further work.										████████████████████			
48IR27	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N	██████	██	██	██
No further work.										████████████████████			
48IR28	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N	██████	██	██	██
No further work.										████████████████████			





SITE SUMMARY TABLE (Field Agent Use)

DBI\_WY\_2011\_700

Lead Agency #:

Field Org. #: Greer #7063

48IR30	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR32	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR33	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.													
48IR34	Isolated Resource	N	No previous eligibility		Not eligible		N	N					
No further work.													
48IR36	Isolated Resource	N	No previous eligibility		Not eligible		N	N	N				
No further work.													



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Mavis Greer and John Greer  
*Principal Investigators*

Report 7063

August 2011

**ABSTRACT.** A Class III intensive cultural resource survey was conducted in the Powder River Basin on 3596 acres within a 6059-acre ISR uranium project area. The remaining acreage had been previously surveyed to current Class III standards. Seventy-nine cultural localities are known within the Reno Creek project area. Of these, 41 were previously recorded, and 38 were found during the present inspection. Of the total localities, 33 have been assigned site numbers, and the others are considered isolated resources under current SHPO definitions. Cultural localities date to the prehistoric (42), historic (27), and combined prehistoric-historic (10). All cultural remains are considered not eligible for the National Register, and no further archeological work or special consideration is recommended for the proposed project.

**PROJECT LOCATION.**

<b>Agency</b>	Wyoming Department of Environmental Quality (W-DEQ) Nuclear Regulatory Commission (NRC),
<b>USGS Quad</b>	Baker Spring 7.5' (1984; 43105-F6) Rattlesnake Draw 7.5' (1984; 43105-F5)
<b>Uranium Block</b>	<p><i>Total Project Area: 6059 acres</i></p> <hr style="border-top: 1px dashed red;"/> <p><i>Total New Survey: 3596 acres</i>  <i>Private Surface: 2956 acres</i>  <i>State Surface: 640 acres (marked below)</i></p> 
	<hr style="border-top: 1px dashed red;"/> <p><i>Total Previous Survey: 2463 acres (private surface)</i></p> 
<b>Sites in Project Area</b>	33 sites, 46 isolated resources
<b>Site Forms</b>	On file with SHPO
<b>Collections</b>	None

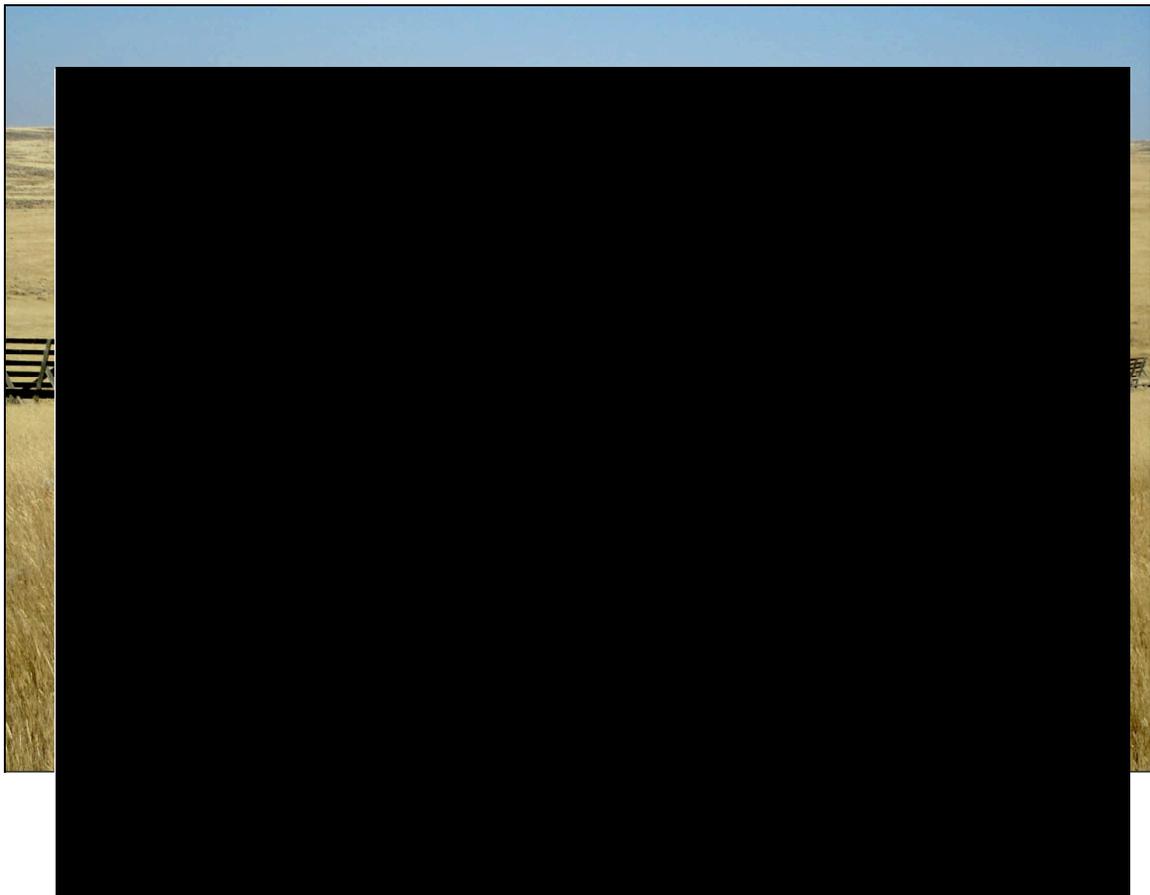
**PROJECT DESCRIPTION AND APE.** Uranium prospecting and development through In Situ Recovery (ISR) are planned for the 6059 acres (Figure 1). The *Area of Potential Effect* (APE) is defined as the entire survey area, which may be subject to such activities as drilling, pit excavation, vehicle driving, road construction, and all aspects of ISR. Project areas are plotted on Figure 1 from company planning maps.

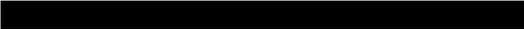




**PROJECT ENVIRONMENTAL SETTING.** The project is in the Powder River Basin of northeastern Wyoming, west of the town of Wright. Clarkelen Road (county) passes north-south through the west-central part of the project area, and the Belle Fourche River flows from southwest to northeast through the west half of the project. This is a fairly wide sinuous channel within grassy bottomland bordered by terraces backed by gentle slopes and eroded embankments that stair-step up benches to higher crests. Ridge systems that flank the Belle Fourche valley are separated by developing drainages that begin as sage-filled swales and become more defined and eroded as they approach the Belle Fourche River.

**Geology.** The project is in the Wasatch Formation (Tw), which in East Wyoming is comprised of drab sandstone and drab to variegated claystone with numerous coal beds in the lower part (Love and Christiansen 1985). On-ground observations indicate ground-level sandstone outcroppings exposed as slabs and cobbles in eroded zones, mostly along the crests, while in previously bulldozed areas there are small boulders of sandstone indicating they are not far below the surface. There are some limestone outcroppings in embankments along the south side of the Belle Fourche River that are fracturing into blocky chunks, while other areas along the river have bluffs of whitish-colored sandstone too soft to preserve rock art but that has formed niches for animal shelter. Pieces of burned quartzite are scattered across the valley but have no associated artifacts and are probably the result of prairie fires through the years. Some calcareous and siliceous gravels occur along the crests. Small pebbles, cobbles, and small sandstone blocks and limestone pebbles occur throughout the survey area. Some petrified wood pieces are in the gravels of the upper benches, and gypsum crystals are in eroded areas.





**Soils.** The southern Campbell County soils map (NRCS 2011) indicates that the survey area includes many kinds of soils (Figure 5). However, there are a few key soils. Along the Belle Fourche River, Soils #144, 215, 221, and 236 are most prominent. These are loams (#144 and #215) and sandy loams (#221 and #236). Soils along the ridgecrests and upper slopes are dominated by #116, 146, and 214, all of which are loams. Broad soils maps such as these are informative about general deposition but are not particularly helpful in determining the presence or likelihood of buried cultural remains on a detailed scale where spotty to widespread erosion can remove ephemeral, discontinuous, or even intensive cultural deposits or where deposition of materials may have occurred on residual landscapes. Our on-ground observations confirmed loams throughout the project area, but in most places these are fairly thin and are underlain by clay and sandy clay, which is exposed in erosional areas and embankments. Pockets of sand occur mainly on crests or upper slopes. Coal is also exposed in some heavily eroded areas. Depositional character exposed by extensive erosion suggests a low potential for cultural deposits within the project APE.

**Vegetation.** There is variable vegetative cover across the survey block. Vegetation overall is spaced and is dominated by short grass-prickly forb sod interspersed with erosional bare areas and small to large patches of prickly pear. There are areas of almost no sage, and in other areas sage is continuous but variably spaced. Crested wheatgrass occurs in rehabilitated areas, and large patches of cheatgrass indicate where animal disturbance has been greatest. Creeping spongy lichen is especially prominent in erosional zones, and yucca mainly occurs on sandy or rocky ridgecrests and on upper slopes where sandy loam is present. Overall surface visibility was excellent (estimated 70% non-vegetated ground) and was aided by spaced vegetation, animal holes, animal trails, two-tracks, previous blading, and varying amounts of erosion. These characteristics also aided in overall evaluation of subsurface potential for cultural remains within the survey area as low.

Elevation across the project ranges about 5030-5280 feet. Presently the area is used for wildlife habitat, livestock grazing, and oil and gas production. Previous disturbance includes coalbed methane (CBM) wells, pipelines, single-pole overhead powerlines, earthen dams, uranium test holes, roads that range from two-tracks to crowned and ditched, and various kinds of ranch related activities. Modern trash was also observed, such as aluminum cans, plastic (including bottles), and beer bottles.

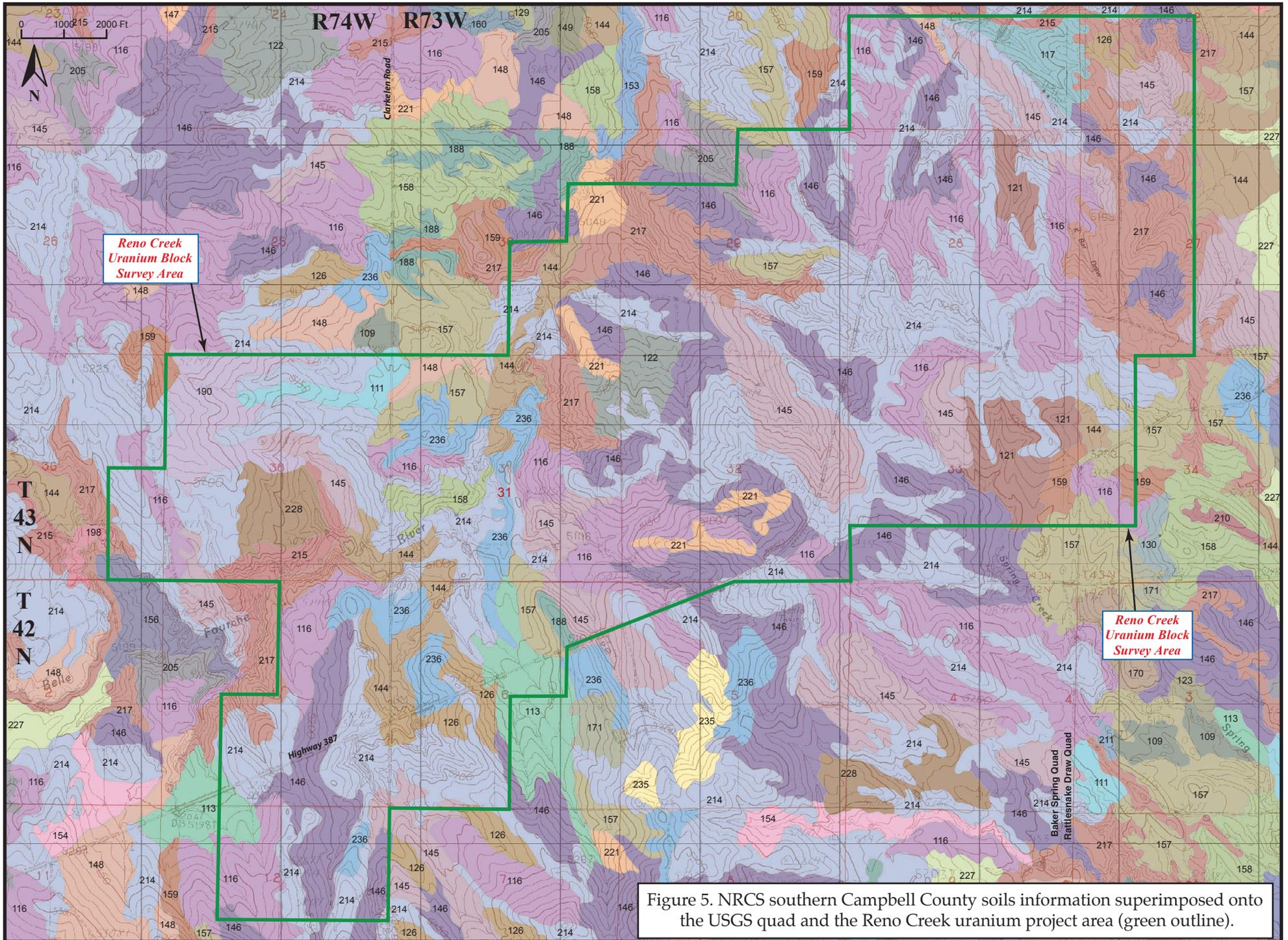


Figure 5. NRCS southern Campbell County soils information superimposed onto the USGS quad and the Reno Creek uranium project area (green outline).



**BACKGROUND RESEARCH.** Files were checked for information on previous surveys, recorded cultural resources, and possible additional sites.

**Wyoming SHPO/CRIS Files.** Files of the SHPO Records Division (SHPO #25828, 25829, 25830, 25831 all on 6/7/10) indicate several previous surveys, sites, and isolates in the project sections. Those database records indicate that of the 6059 acres encompassing the project area, 2463 acres had been previously surveyed to current Class III standards after 1980 in blocks of 40 acres or more (marked on Figure 1 with a hatched pattern). These large block areas were inventoried between 1993 and 2008 for uranium or coalbed methane projects, and those areas were not re-inventoried at this time. During the previous work, 41 cultural localities were recorded. Due to a 2008 SHPO policy change in site definition and numbering, 14 previously recorded localities with site numbers would not qualify now as sites under the present system. All previously recorded sites and isolates were recorded using current Wyoming site forms, and resource evaluations as not significant have all received concurrence from the Wyoming SHPO (Table 1). No additional field review of those previous survey areas or recorded cultural localities was formally necessary in those areas, and none was done. Three previously recorded sites extend into our present survey and were revisited, with updated site information. Site 48CA2771 extends into the present project area, but there were no changes to the site since original recording, so no updated information was necessary.

Table 1. Previously recorded sites and isolates within the overall Reno Creek project area. All localities have been evaluated as not eligible for the National Register with SHPO concurrence. No further work is recommended for any of these locations. Those in blue-italics were revisited as part of this project (see *Inventory Results* below; GS=Greer Services).

No.	Location	UTM		Recorded	Description
<b>TWP</b>					
None					
IF 6967-1					
IF 6967-2					
IF 6967-3					
IF 6967-4					
IF 6967-5					
<b>TWP</b>					
48CA2798					
None					
None					
48CA2776					
48CA2777					
48CA2764					
48CA2765					



No.	Location	UTM		Recorded	Description
48CA2766	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2767	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2769	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2770	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2777	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2778	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2779	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
FA93-25-2	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
FA93-25-12	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
FA93-25-18	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
FA93-25-23	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
FA93-25-29	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
FA93-25-30	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
RD93-8-IF-1	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
RD93-8-IF-2	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
<b>None</b>	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2771	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2772	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
47CA2773	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2774	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2775	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA2780	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA4868 IF-14	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF-18	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA4868 48CA5077	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA4868	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA4868	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

No.	Location	UTM		Recorded	Description
<b>TWP</b>					
48CA4868	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF-9	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF-10	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA4868	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA4987	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
<b>TWP</b>					
48CA4868	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA4868	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA4267	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
48CA5073	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF-13	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

**GLO Information.** The 1882 GLO survey plats for [REDACTED] show no cultural improvements in the project sections. There are no known nearby historic trails, historic sites with standing structures, or unusual prehistoric remains that appear to be subject to viewshed considerations.

**Homestead Information.** Historic homestead remains occur throughout the Powder River Basin, often at locations along drainages or roads. The Bureau of Land Management GLO Records website was checked for information regarding the patent history of the project area. According to the records only two Homestead Act patents have been granted within the project area. [REDACTED]

[REDACTED] Homestead Act patents required residence on the property to prove the claim, and when enacted for a particular area there is a potential for such remains within that area. Stock Raising Homestead Act patents did not require residence on the property to prove the claims, but residential facilities sometimes were constructed. Thus, there was a potential for such remains within the survey area, and two were found (48CA7085 and 48CA7089), but both are within Stock Raising Homestead Act patent areas.

**Comparative Data.** Overall, from a regional perspective, cultural sites and materials from any time period, from Paleoindian to modern, could be expected to occur in any area, without any means of prediction. As for kinds of sites, existing information indicates a pattern in which **lithic scatter sites** and scattered **isolates** can occur in almost any area, from upper benches and hillside terraces to streamside benches and lower terraces. **Hearths** and **firepits**, usually considered to indicate some duration of occupation, likewise can occur in any area, although they most often appear to be buried, with minimal or no surface indications. **Tipi rings** usually occur on middle to lower benches, in saddle areas of any elevation, and on crests and rim areas of ridges

and high spurs. The largest villages, usually in lower areas of minimal topographic variation, frequently overlook open country to the south and east. **Rock cairns** most often occur on locations with some elevation, usually with an open view in at least one direction. Early **historic herder camps** (those dating before 1920) often occur on lower hillslopes or near drainages, while later herder camps (those dating after 1920) often occur in areas of some elevation, such as ridgecrests, with a good view of surrounding countryside. Both kinds of camps are relatively common throughout the region. Buried cultural deposits occur throughout eastern Wyoming, with most sites identified by archeological materials exposed in erosional areas, cutbanks, or subsurface construction areas.

**FIELDWORK.** An intensive Class III cultural survey was conducted between 8/15/10 and 12/11/10 by John and Mavis Greer, with some additional field checking after that date through 8/17/2011. The purpose of the inspection was to recognize and identify by surface observation any archeological or historic sites or isolates. The 3596 acres not previously inventoried were surveyed with multiple transects with a maximum spacing of 100 feet. This area, along with the previous survey, covers the entire anticipated APE for the uranium project, plus an adequate buffer zone.

**Survey Conditions.** Weather at the time of inventory was variable due to duration of the inventory. Conditions ranged from sunny to cloudy and cool to warm, but ground conditions were always dry. Overall ground visibility was excellent (estimated 70% non-vegetated ground) due to spaced vegetation, animal holes, animal trails, two-tracks, previous blading, and varying amounts of erosion.

**Field Notes.** Field observations were recorded on digital recorders and temporary notes; photographs are temporary digital files. All photos are by John & Mavis Greer between 8/15/10 and 8/17/2011. Site sketch maps were made with a combination of GPS readings, various laser measuring devices, and paced and taped measurements. Limited subsurface testing was done at sites 48CA2775 and 48CA7084 to ascertain the potential for buried cultural materials associated with prehistoric hearths (see *Inventory Results* below). No artifacts were collected. All project information is included in this report. This report is printed on acid-free paper.

**CULTURAL DEFINITIONS.** Definitions used here are those presently required by the Wyoming SHPO. A *prehistoric site* is defined as 15 or more spatially restricted artifacts (no more than 30 meters between artifacts), or a location with one or more cultural features and/or potential for buried deposits. A *historic site* contains 50 or more spatially associated artifacts (excluding trash dumps or artifact scatters older than 50 years for which historical significance cannot be demonstrated), as above (with fragments of a single artifact counted as one item), or one or more cultural features. A *prehistoric isolate* is defined as 14 or fewer associated artifacts, no cultural features, and no known cultural deposits. A *historic isolate* is defined as 49 or fewer associated artifacts (excluding trash dumps and highway trash) and no cultural features.

**INVENTORY RESULTS.** All site information [REDACTED] and is included here for project planning and compliance review only. Seventy-nine cultural localities are known within the Reno Creek project area. Of these, 41 were previously recorded, and 38 were found during the present inspection. There were no unusual problems, and survey reliability is considered good. Site and isolate forms are on file with the Wyoming SHPO.

**Buried Cultural Deposit Potential.** Surface visibility was excellent (estimated 70-80% non-vegetated ground) and was aided by spaced vegetation, animal holes, animal trails, two-tracks, previous blading, and varying amounts of erosion. These characteristics also aided in overall evaluation of subsurface potential for cultural remains within the survey area as low. There were no surface indications of buried cultural deposits, features, or buried artifacts within the project area. Subsurface prospecting was conducted at sites 48CA2775 and 48CA7084 to ascertain the potential for buried cultural materials associated with prehistoric hearths (see site discussions below).

Table 2. Newly recorded (or updated) sites and isolates within the new-survey portion of the Reno Creek project area. All localities have been evaluated as not eligible for the National Register. No further work is recommended for any of these locations.

Site No.	¼, ¼	Sec	T	R	Description
48CA2775	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
48CA4868	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
48CA5077	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
48CA7084	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
48CA7085	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
48CA7086	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
48CA7087	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
48CA7088	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
48CA7089	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
48CA7090	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-1	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-2	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-3	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-4	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-5	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-6	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-7	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-8	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-9	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-10	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-11	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-15	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-18	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-19	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]
IF 7063-20	[Redacted]	[Redacted]	[Redacted]	[Redacted]	[Redacted]

Site No.	¼, ¼	Sec	T	R	Description
IF 7063-22	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF 7063-23	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF 7063-25	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF 7063-26	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF 7063-27	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF 7063-28	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF 7063-30	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF 7063-32	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF 7063-33	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF 7063-34	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]
IF 7063-36	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]	[REDACTED]

**Previously Recorded Sites Revisited**

**48CA2775, Prehistoric Campsite**

[REDACTED]

**Background.** In April 1993 a Frontier crew recorded this prehistoric campsite during a uranium survey. They described the site as a multi-component prehistoric lithic scatter and historic trash scatter measuring [REDACTED]

[REDACTED]. They noted a rock cluster on their sketch map and in the site description, but no details (and age could be prehistoric or historic). Thus, materials of various ages were very sparsely scattered over a large area. The site was evaluated as not eligible for the National Register based on no potential for information beyond locational data. Two shovel tests and visual examination of basal sediment indicated there was no potential for buried cultural deposits. The SHPO concurred that the site is not eligible (WYCRO files search information). Since the site extended into a portion of Section 30 that had not been previously surveyed, the location was revisited as part of this project.

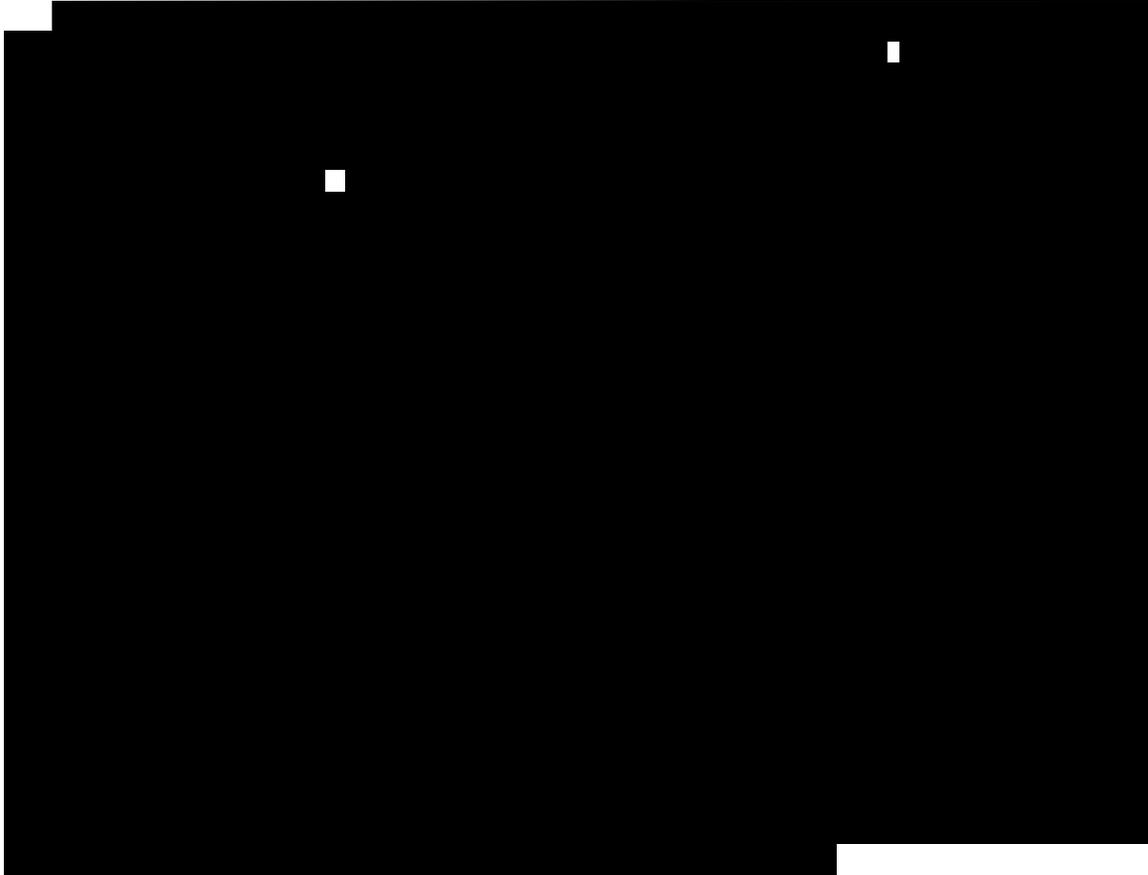
**2010 Observations:**

**Topographic Setting.** [REDACTED]

[REDACTED] Compact silty loam supports a minimal natural gravel cover of sandstone, chert, and quartzite pebbles with some cobbles. Vegetation consists of short grass-prickly forb sod interspersed with erosional bare areas, clumps of higher short grasses, very little scattered sage, considerable creeping spongy lichen, and scattered prickly pear. Vantage is open with good views in all directions, although the crest rises slightly to the east limiting distance views in that direction. There is an orientation west into the Belle Fourche River valley.

[REDACTED]

*Site Size, Remains, Interpretive Site Summary, and Cultural Affiliation.* Our observations did not change the size of the site from the original recording. However, since the small rock cluster [REDACTED] and its age could not be determined from observation, we probed the feature (see *Feature* description below). We observed no new artifacts during this inspection.



*Site Condition.* The site has not been disturbed since original recording and is considered to be in good condition.

*National Register of Historic Places Evaluation.* We agree with the original evaluation and SHPO concurrence that the site does not meet any of the National Register Criteria A, B, C, or D and therefore is *not eligible* for the National Register.

*Potential Impact.* The site is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the site location is not known.

*Recommendations.* The site appears to have no additional research potential and is considered not eligible for the National Register. No further work is recommended.

*Datum.* No datum was placed at this private surface location.











[REDACTED]

## 48CA5077, Prehistoric Lithic Scatter and Historic Debris

[REDACTED])  
*Background.* In June 2004 an AEC crew recorded this small site during a coalbed methane (CBM) survey. [REDACTED]

[REDACTED] he site was evaluated as not eligible for the National Register based on no potential for information beyond locational data. The SHPO concurred that the site is not eligible (WYCRO files search information). Since the site is within our survey block, the location was revisited as part of this project.

### *2010 Observations.*

#### *Legal Location.*

[REDACTED]

#### *Topographic Setting.*

[REDACTED] Compact silty loam supports a minimal density of gravel dominated by sandstone. Vegetation consists of a sod layer of short grasses and prickly forbs interspersed with erosional bare areas, scattered sage (which is concentrated around the depression), prickly pear, and creeping spongy lichen. [REDACTED]

*Site Size, Remains, Interpretive Site Summary, and Cultural Affiliation.* Our observations — done with the benefit of the previous descriptions and site sketch — did not change the size of the site from the original recording. We saw one of the two previously recorded flakes, the interior reduction flake of white chert. Our observations of the historic artifacts are listed below following a discussion of the depression. [REDACTED]

[REDACTED] This entire patent area now has been intensively inventoried, and this is the only historic site in that area. Based on the kinds of artifacts, it is likely that this was the location of her improvements. They appear to have been just enough to gain her a patent. It is unlikely that she lived here year around and probably did not live here at all once the patent was obtained. Thus, the longest possible age for the site — from initial proving-up (five years) to patent date — is about 1918-1923, and the most likely limited date is simply 1923 (less than a year).

*Depression.* The original site form notes a depression about 1 x 3 meters, labeled “hole”. This is within the sage filled dip where most of the artifacts are located. We measured the slight depression (a maximum of 30 cm deep) at 6' x 10' (slightly wider than the original estimate) based on changes in land contour. In addition to the originally listed artifacts, within the depression are four scoria slabs, and since there is no natural scoria in the area it is assumed that these were brought in as part of a minimal foundation for a small surface shack. The depression was not a cellar, but instead appears to be the natural erosional dip that occurs under sheds with no formal foundation (or foundations made only of a few rocks or boards under the walls, whether there was a floor or not). [REDACTED]

**2010 Inventory:**

[Redacted]

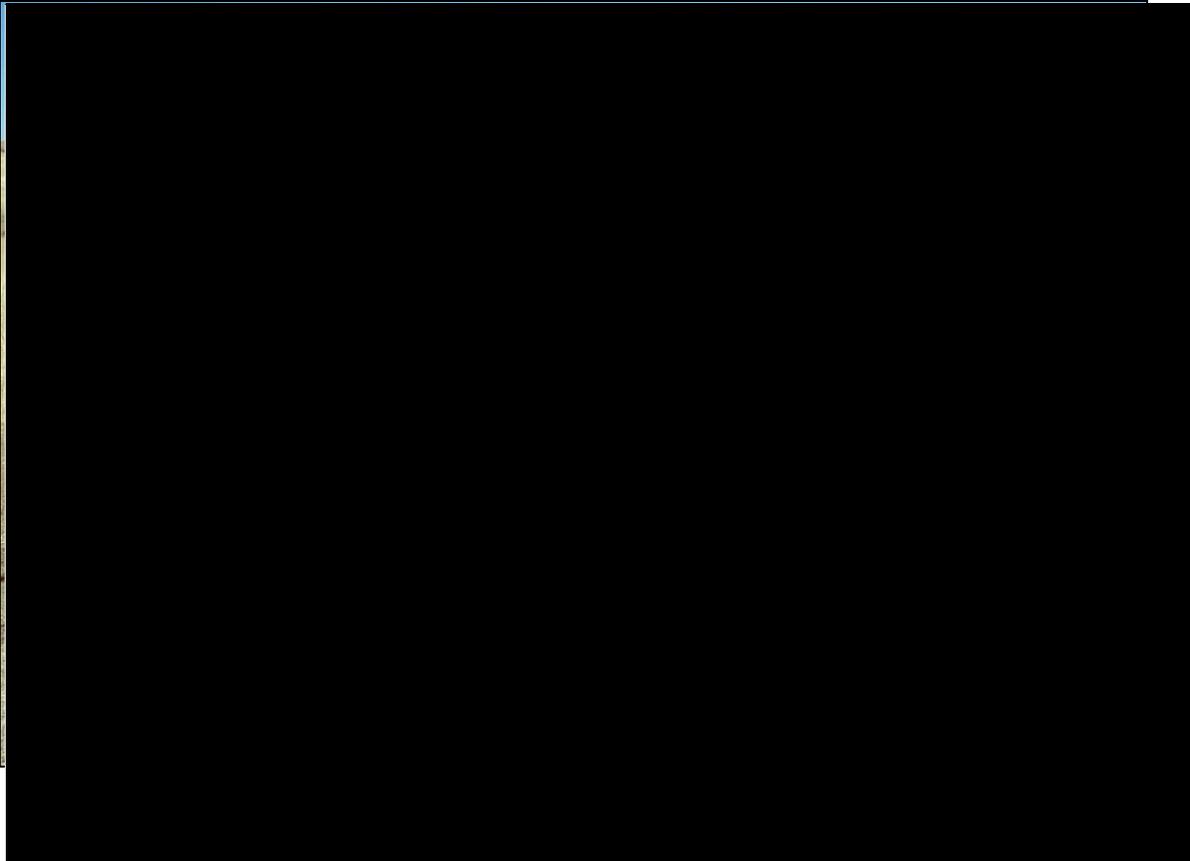
**Site Condition.** The site has not been disturbed since original recording and is considered to be in poor condition.

**National Register of Historic Places Evaluation.** We agree with the original evaluation and SHPO concurrence that the site does not meet any of the National Register Criteria A, B, C, or D and therefore is *not eligible* for the National Register.

**Potential Impact.** The site is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the site location is not known.

**Recommendations.** The site appears to have no additional research potential and is considered not eligible for the National Register. No further work is recommended.

**Datum.** No datum was placed at this private surface location. A wooden lath was used as the original mapping datum, and we found one on the ground near this location, which we used for orientation at the site, and it worked well.





**Newly Recorded Sites**

**Site 48CA7084, Prehistoric Campsite**

[Redacted]

*Topographic Setting.* A prehistoric campsite is on the crest of a high, relatively flat crest above long, steep slopes dropping north to the Belle Fourche River. A coalbed methane (CBM) two-track road passes through the southern edge of the site. To the south the crest descends gently to the wide, grassy swales of tributary drainages. Compact silty loam supports a minimal natural gravel cover of sandstone, limestone, quartzite, chert, and petrified wood. Vegetation is spaced and sparse and consists of clumps of short grass-prickly forb sod interspersed with erosional bare areas, prickly pear, some creeping spongy lichen, and minimal small sage. Vantage is open but with somewhat of an orientation north into the Belle Fourche River valley and toward the east where the Belle Fourche curves to the north.

*Site Size and Remains.*

[Redacted]

*Feature 1,*

[Redacted]

*Artifact 1,*

[Redacted]

*Artifact 2,*

[Redacted]

*Artifact 3,*

[Redacted]

*Artifact 4,*

[REDACTED]

*Artifact 5, Flake.*

[REDACTED]

*Artifact 6, Flake.*

[REDACTED]

*Artifact 7,*

[REDACTED]

*Interpretive Site Summary and Cultural Affiliation.* It is presumed from the paucity of artifacts that this represents a single episode activity station probably utilized by very few people. Alternatively, these items could represent repeated short term use of this high vantage point [REDACTED] over hundreds of years. The lack of diagnostic artifacts and the lack of potential for buried cultural deposits will not allow determination of age, function, or archeological affiliation of the site.

*Site Condition.* The site has been subject to erosion, two-track vehicle traffic, and possibly intensive artifact collection, but it is still considered to be in good physical condition.

*Site Testing.* Testing of the Feature 1 hearth is discussed above. Erosion across the rest of the site and down cutting of the two-track indicate a low potential for buried deposits.

*National Register of Historic Places Evaluation.* The site does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. Locational integrity is good because the site is still at its original location of use. However, artifacts are of limited number and diversity, and the hearth has no intact cultural contents. The remains cannot be assigned to a particular time period, culture, or archeological context. The site expresses the normal aesthetic and historic characteristics of utilitarian prehistoric use because there have been no significant modern changes to the surrounding area. However, there is no potential to contribute additional information to answer research questions important to prehistory. Pertinent details of the site and artifacts have been recorded, and there is no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that are a source of unretrieved important data pertaining to understanding of prehistoric use areas or to the greater regional prehistory. The site is considered *not eligible* for the National Register.



**Potential Impact.** The site is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the site location is not known.

**Recommendations.** The site appears to have no additional research potential and is considered not eligible for the National Register. No further work is recommended.

**Datum.** No datum was placed at this private surface location.







[REDACTED]

**Site 48CA7085, Historic Homestead**

[REDACTED]

***Topographic Setting.*** [REDACTED]

[REDACTED] Soil is a mixture of silty loam and clayey loam, and there is loose clay around the depressions, probably part of depression fill. Natural pebble gravels, minimal in density, are sandstone and limestone. The area around the homestead has been plowed and planted in crested wheatgrass, but natural vegetation is beginning to invade with some sage, particularly in drainage dips and adjacent slopes, and some prickly pear. Several cottonwood trees are between the homestead features and the main drainage to the north. A [REDACTED]

***Site Size and Remains.*** [REDACTED]

[REDACTED] The site now has been cleaned of all structures and of most trash (or artifacts). [REDACTED] he small fragments are probably the result of plowing after cleaning the area. [REDACTED] Features were numbered in the field and are plotted on the site map from GPS UTM field readings.

***Feature 1,*** [REDACTED]

***Feature 2,*** [REDACTED]  
r/w fence is a [REDACTED]

***Feature 3,*** [REDACTED]

[REDACTED]

*Feature 4,*

[REDACTED]

*Feature 5,*

[REDACTED]

*Identification.* Bureau of Land Management GLO Records were checked for information regarding the patent history of site location in the [REDACTED]

[REDACTED]

*Interpretive Site Summary and Cultural Affiliation.* The site likely was occupied from at least 1916, when initial improvement of the property probably began. The remains were still present through the early 1970s. Although improvements continued throughout its occupation, the cleaned nature of the site makes it impossible to know which features were there at the time of initial settlement and which were added later. [REDACTED]

[REDACTED]

*Site Condition.* The condition of the site is poor. There are no remaining structures, and any buildings once here were removed during site cleaning. The Feature 1 house foundation is only partially remaining. All artifacts across the site are in a deteriorating condition and have been broken, weathered, scattered, and rusted.

*Site Testing.* No testing was done at this site.

*National Register of Historic Places Evaluation.* The site does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The site has integrity of location because it is at the original location of occupation and use. The homestead probably reflects conscious design decisions made during the original conception and planning of the property to make the best use of available space, [REDACTED]

[REDACTED] The site does not express an aesthetic and historic sense of an early 1900s era homestead because the destruction of site features and artifacts during cleaning has changed the original distribution of materials and character of the area. The site is not known to be associated with any important historic event or person significant to history. The site has no potential to

contribute additional information to answer research questions important to history, so there is no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that are a source of unretrieved important data pertaining to understanding of homesteads on the Northern Plains. Therefore, the site is not considered eligible for the National Register.

*Potential Impact.* The site is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on this location is not known.

*Recommendations.* The site appears to have no additional research potential and is considered not eligible for the National Register. No further work is recommended.

*Datum.* No datum was placed at this private surface location.

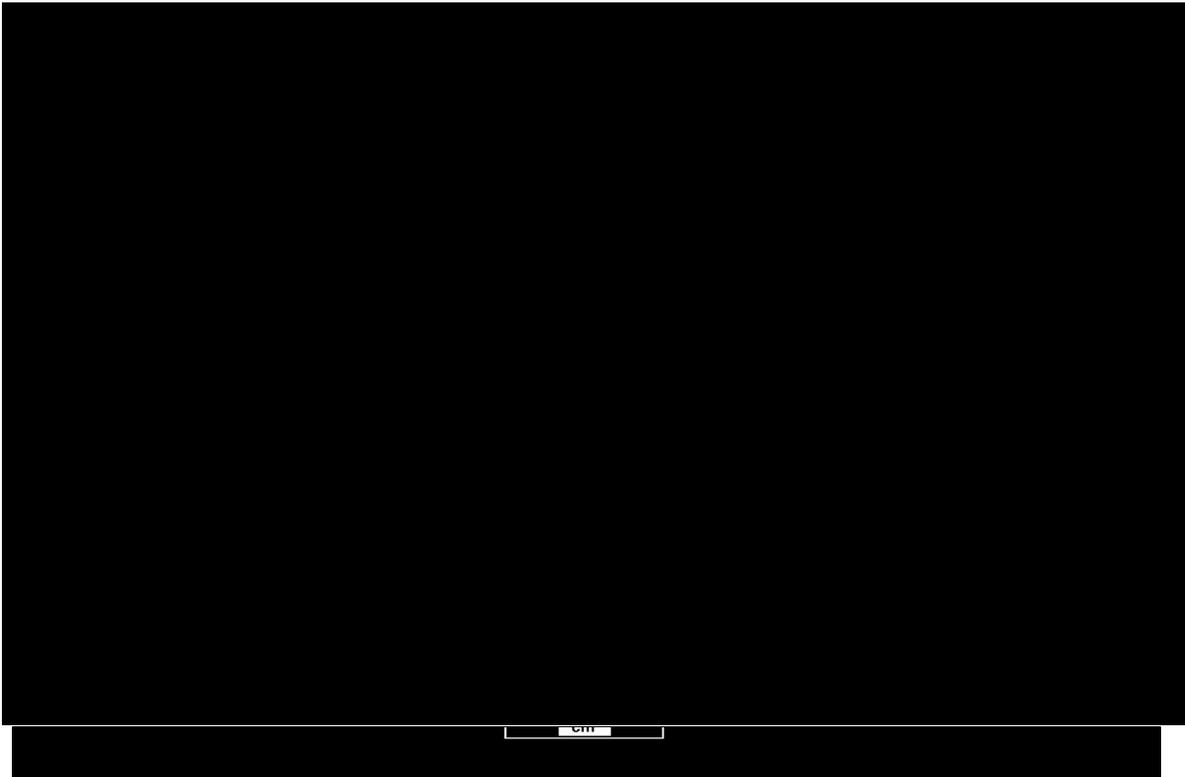


Figure 17. [REDACTED]









**Site 48CA7086, Historic Ranch Facility**

[REDACTED]

*Topographic Setting.*

[REDACTED]

The site is on a very gentle southwest-facing slope that flattens in the area of the shed, but this may be an artificial flattening from previous plowing or leveling. Compact silty clay supports a grass cover of crested wheatgrass, which appears to have been planted after plowing. Today native grasses are returning to the area, especially along the drainage and up toward the windmill, but sage has not returned. There are also many weeds around the animal shelter.

[REDACTED]

*Site Size and Remains.*

[REDACTED]

*Feature 1,*

[REDACTED]

*Identification.* Bureau of Land Management GLO Records were checked

[REDACTED]

[REDACTED]

that required habitation on the property. The entire patent area now has been intensively inventoried, and this is the only historic site in that area [REDACTED]

[REDACTED] Because of extensive clearing and plowing in the section, it is possible that minimal habitation locations elsewhere in the section are simply no longer identifiable, but water development at this facility argues for its being first a homestead residential site and then a livestock site.

**Interpretive Site Summary and Cultural Affiliation.** The site may have been used as early as 1919, when initial improvement of the property probably began for homesteading, but by the 1950s [REDACTED]

[REDACTED] It has only a few years left before collapse if not fixed. [REDACTED] are still in use and being upgraded.

**Site Condition.** The condition of the site is poor. The shed is being left to deteriorate, and there are scattered boards and window glass from it across the site area.

**Site Testing.** No testing was done at this site.

**National Register of Historic Places Evaluation.** The site does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The site has integrity of location because it is at the original location of use. The site does not express an aesthetic and historic sense of a livestock care facility because it has been left to deteriorate. The site is not known to be associated with any important historic event or person significant to history. The site has no potential to contribute additional information to answer research questions important to history, so there is no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that are a source of unretrieved important data pertaining to understanding of ranch facilities on the Northern Plains. Therefore, the site is not considered eligible for the National Register.

**Potential Impact.** The site is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact to the location is not known.

**Recommendations.** The site appears to have no additional research potential and is considered not eligible for the National Register. No further work is recommended.

**Datum.** No datum was placed at this private surface location.













**[REDACTED]**

**Interpretive Site Summary and Cultural Affiliation.** The site may have been used as early as 1921, when initial patent improvement on the property may have begun. Remaining artifact fragments are typical of the 1920s to 1950s in general, so there is no clear indication of limited age or function.

**Site Condition.** The condition of the site is poor due to fire, fragmentation, and possibly collection.

**Site Testing.** No testing was done at this site.

**National Register of Historic Places Evaluation.** The site does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The site has integrity of location because it is at the original location of use. Site function is unknown, although it appears to be homestead related, but it is not known to be associated with any historic event or person significant to history. The site has no potential to contribute additional information to answer research questions important to history, so there is no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that are a source of unretrieved important data pertaining to understanding of ranching on the Northern Plains. Therefore, the site is not considered eligible for the National Register.

**Potential Impact.** The site is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact to the location is not known.

**Recommendations.** The site appears to have no additional research potential and is considered not eligible for the National Register. No further work is recommended.

**Datum.** No datum was placed at this private surface location.





**Site 48CA7088, Historic Artifacts (Stock Camp)**

[REDACTED]

*Topographic Setting.* Historic artifacts are [REDACTED]  
[REDACTED]

[REDACTED] Compact silty deposition has minimal pebble gravel of sandstone, limestone, and shale. Vegetation consists of patches of short grass-prickly forb sod interspersed with erosional bare areas, some sprigs of short grasses, continuous but spaced sage, an abundance of creeping spongy lichen, and occasional prickly pear. Vantage is oriented into lower country to the east and northeast.

*Site Size and Remains.* Historic artifacts are in a site area [REDACTED]  
[REDACTED] The 52 inventoried items include [REDACTED]  
[REDACTED]

*Historic Artifact Inventory*

Art.	Description
1	[REDACTED]
[REDACTED]	[REDACTED]





There is no potential for buried deposits or additional surface artifacts that are a source of unretrieved important data pertaining to understanding of herder camps on the Northern Plains. Therefore, the site is not considered eligible for the National Register.

*Potential Impact.* The site is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact to the location is not known.

*Recommendations.* The site appears to have no additional research potential and is considered not eligible for the National Register. No further work is recommended.

*Datum.* No datum was placed at this private surface location.





**Site 48CA7089, Historic Homestead**

( [REDACTED] )

*Topographic Setting.* A historic occupation is on western very gentle slope just off the relatively flat crest of a north-south trending spur. [REDACTED]

[REDACTED]. This is an area of linear ridges separated by wide drainage swale heads that narrow to pronounced channels as they erode downstream. Silty loam has a minimal fine pebble gravel cover dominated by sandstone, shale, and limestone. Vegetation consists of short grass-prickly forb sod interspersed with erosional bare areas, scattered to patchy sage, some prickly pear, and considerable creeping spongy lichen. [REDACTED]

*Site Size and Remains.* Remains of a small historic homestead [REDACTED]

[REDACTED]

*Feature 1,* [REDACTED]

[REDACTED]

*Historic Artifacts*

Art.	Description
1	[Redacted]
[Redacted]	[Redacted]

*Artifact 9,*

[Redacted]

*Identification, Interpretive Site Summary, and Cultural Affiliation.* Bureau of Land Management GLO Records were checked for information regarding the patent history of

[Redacted]

[REDACTED]

[REDACTED] Thus, the longest possible age for the site — from initial proving-up (five years) for patent to [REDACTED] — is about 1916-1965. The early dates are supported by the [REDACTED]

**Site Condition.** The condition of the site is poor. There are no remaining structures, and artifacts are in a deteriorating condition and have been broken, weathered, scattered, and rusted.

**Site Testing.** No testing was done at this site.

**National Register of Historic Places Evaluation.** The site does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The site has integrity of location because it is at the original location of occupation and use. The homestead probably reflects conscious design decisions made during the original conception and planning of the property to make the best use of available space, but this is reflected only in terms of the location of the feature to the topography. [REDACTED]

[REDACTED] removal of site features and artifacts during cleaning has changed the original distribution of materials and character of the area. The site is not known to be associated with any important historic event or person significant to history. The site has no potential to contribute additional information to answer research questions important to history, so there is no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that are a source of unretrieved important data pertaining to understanding of homesteads on the Northern Plains. The larger cartridge also suggests the possibility of assemblage mixing, and separation of items into separate use episodes would be impossible here. Therefore, the site is not considered eligible for the National Register.

**Potential Impact.** The site is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on this location is not known.

**Recommendations.** The site appears to have no additional research potential and is considered not eligible for the National Register. No further work is recommended.

**Datum.** No datum was placed at this private surface location.







[REDACTED]

### Site 48CA7090, Historic Depression

[REDACTED]

**Topographic Setting.** An intentionally excavated depression is in a narrow valley bottom, on the flat terrac [REDACTED]

[REDACTED] Sediment around the depression is a silty loam with almost no natural pebble gravels, but the few present are sandstone. Vegetation is dominated by cheatgrass (which covers the small terrace), scattered sage, and prickly pear. Vantage is closed, but there is some orientation downstream to the north and limited distance visibility upstream to the south.

**Site Size and Remains.** A single depression designates a site area [REDACTED]. It is excavated on the east side of the drainage, just out of the bottom, and the western berm between the depression and the channel is stable and well preserved. There is a slightly more inclined area on the southeast side as if for a steep ramp entryway, while to the other directions there is a slight berm around the edge of the depression where the dirt has been thrown out. It appears to have been dug by hand and not with a backhoe. There are no associated artifacts, structural elements, or anything to indicate the age or function.

**Identification, Interpretive Site Summary, and Cultural Affiliation.** The depression is the same size [REDACTED]

[REDACTED]

**Site Condition.** The condition of the site is poor, and only the depression remains.

**Site Testing.** No testing was done at this site.

**National Register of Historic Places Evaluation.** The site does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The site has integrity of location because it is at the original location of occupation or use. Site function is only speculative, and the site is not known to be associated with any important historic event or person significant to history. The site has no potential to contribute additional information to answer research questions important to history, so there is no important information potential under Criterion D. There is no potential for meaningful buried deposits or additional surface artifacts that would a source of unretrieved important data pertaining to understanding of homesteading on the Northern Plains. Therefore, the site is not considered eligible for the National Register.



*Potential Impact.* The site is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact to this location is not known.

*Recommendations.* The site appears to have no additional research potential and is considered not eligible for the National Register. No further work is recommended.

*Datum.* No datum was placed at this private surface location.





*Newly Recorded Isolated Resources*

**IF 7063-1, Flake and 2FCR**

[REDACTED]

*Topographic Setting.* A prehistoric lithic flake and two pieces of fire-cracked rock are on

[REDACTED]

This is an area of hard, compact silty loam supporting a minimal natural gravel cover consisting mainly of small pieces of sandstone and limestone. Vegetation is spaced and sparse and consists of clumps of short grasses interspersed with erosional bare areas, scattered sage, creeping spongy lichen, and scattered prickly pear. Vantage [REDACTED]

*Cultural Remains.*

[REDACTED]

*Artifact 1, Flake.*

[REDACTED]

*Potential Impact.* The items are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

*Evaluation and Recommendations.* This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding prehistory, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

*Datum.* No datum was placed at this private surface location.



[REDACTED]

**IF 7063-2, Isolated Flake**

[REDACTED]

**Topographic Setting.** An isolated prehistoric artifact is in the [REDACTED] [REDACTED]. The isolate is near the base of a gentle slope that rises to the northeast and merges into a saddle to the southwest. This is an area of fine sandy loam with a minimal natural pebble gravel cover of sandstone and limestone with some minuscule pieces of chert, quartzite, and gypsum in the ant bed. Vegetation consists of short grass-prickly forb sod interspersed with erosional bare areas, spaced but continuous sage, some prickly pear, and occasional creeping spongy lichen. Vantage is oriented southeast and northwest on either side of the saddle.

**Artifact 1, Flake.** A secondary reduction flake is of highly translucent light gray chalcedony or high quality chert with a dense white cortex. There is no lateral retouch or evidence of use. This is a small medial-edge fragment that measures 18 x 18 mm, x 4.6 mm thick.

**Potential Impact.** The flake is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolate location is not known.

**Evaluation and Recommendations.** This is an isolated artifact with no indications of associated cultural features, deposits, or other artifacts. The location has no historical significance or research potential and is considered not eligible for the National Register. No further work or attention is recommended.

**Datum.** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-3, Isolated End Scraper**

[REDACTED]

*Topographic Setting.* An isolated prehistoric artifact is on the very gentle, north-facing slope off the crest of a bench [REDACTED]

[REDACTED] Sandy loam supports a moderate pebble gravel cover dominated by chert, quartzite, and petrified wood with some limestone and sandstone. Minuscule pieces of quartzite dominate the ant bed. Vegetation consists of a short grass-prickly forb sod interspersed with erosional bare areas, some creeping spongy lichen, scattered sage, and prickly pear. Vantage is oriented east toward the Belle Fourche River, but there is also visibility to the north into the tributary drainage.

*Artifact 1, End Scraper.* [REDACTED]

[REDACTED]

*Potential Impact.* The artifact is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolate location is not known.

*Evaluation and Recommendations.* This is an isolated artifact with no indications of associated cultural features, deposits, or other artifacts. The location has no historical significance or research potential and is considered not eligible for the National Register. No further work or attention is recommended.

*Datum.* No datum was placed at this private surface location.



**IF 7063-4, Lithic Scatter**

[REDACTED]

*Topographic Setting.*

[REDACTED] just downstream from the cultural area. The relatively flat terrace is separated from the grass-covered drainage bottom by a short steep slope. Silty loam topsoil is underlain with clay, which is exposed in erosional areas and also in the eroded embankment dropping into the tributary drainage that provides a good view of subsurface structure. There is minimal natural gravel cover that includes a few pieces of quartzite, sandstone, and limestone. Vegetation consists of a short grass-prickly forb sod interspersed with erosional bare areas, scattered sage, small to large patches of prickly pear, and some creeping spongy lichen.

*Cultural Remains.*

[REDACTED]

*Artifact 1,*

[REDACTED]

*Artifact 2, Flake.*

[REDACTED]

*Artifact 3. End Scraper.*

[REDACTED]

*Artifact 4, Flake.*

[REDACTED]

[REDACTED]

*Artifact 5, Hafted Hammer.* [REDACTED]

*Artifact 6, End scraper.* [REDACTED]

*Artifact 7, Flake.* [REDACTED]

**Potential Impact.** The items are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

**Evaluation and Recommendations.** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding prehistory, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location.







[REDACTED]

**IF 7063-5, Historic Artifacts**

[REDACTED]

**Topographic Setting.** [REDACTED]

The silty loam topsoil is underlain with clay, which is exposed in erosional areas. There is minimal natural gravel cover that includes a few pieces of quartzite, sandstone, and limestone. Vegetation consists of short grass-prickly forb sod interspersed with erosional bare areas, scattered sage, small to large patches of prickly pear, and some creeping spongy lichen. [REDACTED]

**Cultural Remains.** [REDACTED]

**Potential Impact.** The cans are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

**Evaluation and Recommendations.** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The artifacts are not associated with a recognized site of conscious design. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-6, Isolated Blank**

[REDACTED]

***Topographic Setting.*** [REDACTED]

[REDACTED] to the south, the terrace dips between the artifact and the edge of the terrace. Compact clay is exposed on the eroded surface, and the sandstone and limestone gravels in this area are sparse. Vegetation is dominated by clumps of short grasses and clumps of prickly forbs with some scattered sage, prickly pear, and creeping spongy lichen. There is no developed sod zone at the isolate location. [REDACTED]

[REDACTED]

***Artifact 1, Blank.*** [REDACTED]

[REDACTED]

***Potential Impact.*** The artifact is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolate location is not known.

***Evaluation and Recommendations.*** This is an isolated artifact with no indications of associated cultural features, deposits, or other artifacts. The location has no historical significance or research potential and is considered not eligible for the National Register. No further work or attention is recommended.

***Datum.*** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-7, End Scraper and 2 FCR**

[REDACTED]

***Topographic Setting.*** [REDACTED]

[REDACTED] The area has experienced some sheet erosion leaving only a few pockets of silty loam topsoil and exposing the underlying clayey loam. There is minimal natural gravel cover of small pieces of quartzite. Vegetation consists of short grass-prickly forb sod interspersed with erosional bare areas, a few scattered sage plants, some prickly pear, and occasional creeping spongy lichen. [REDACTED]

[REDACTED]

***Cultural Remains.*** [REDACTED]

***Artifact 1. End Scraper.*** [REDACTED]

***Potential Impact.*** The items are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

***Evaluation and Recommendations.*** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding prehistory, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

***Datum.*** No datum was placed at this private surface location.



**IF 7063-8, Lithic Scatter**

[REDACTED]

**Topographic Setting.**

[REDACTED]

[REDACTED] cross the river is a lower, grass-covered terrace with a short grassy slope separating the terrace from the channel. Compact silty loam is underlain with clayey loam, as shown in erosional areas and the embankment. Gravels of sandstone, limestone, quartzite, and chert, most of which are small pebbles, are of minimal density. Vegetation is sparse and spaced and consists of clumps of short grass-prickly forb sod interspersed with erosional bare areas, scattered sage, and creeping spongy lichen. There is considerable prickly pear in surrounding areas. [REDACTED]

**Cultural Remains.**

[REDACTED]

**Artifact 1, Arrowpoint. A**

[REDACTED]

*Prehistoric Artifacts.* Flakes have no lateral retouch or evidence of use. Maximum size is in mm; \* indicates fragmentary.

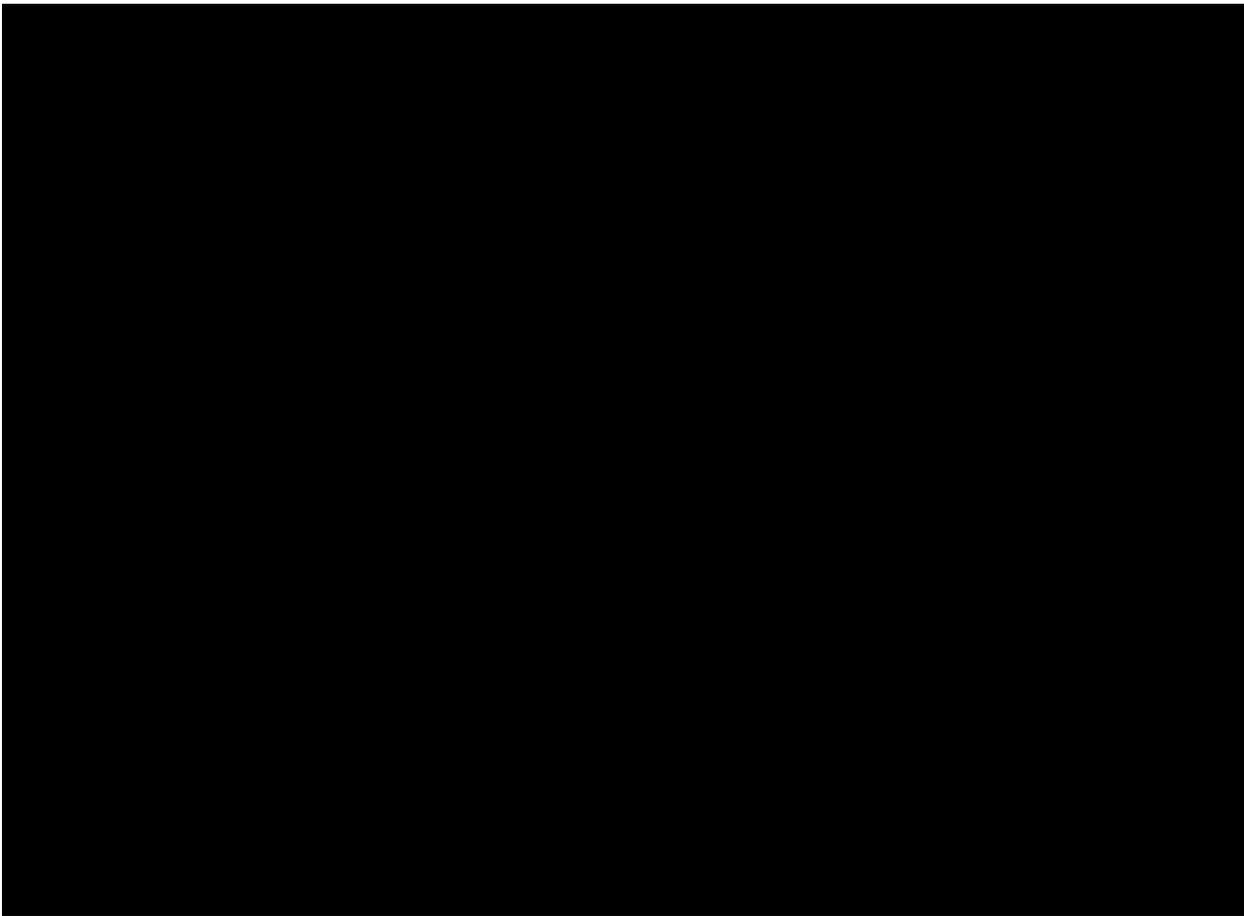
Art.	Description	Material	Size mm
2	[REDACTED]	[REDACTED]	[REDACTED]
1	[REDACTED]	[REDACTED]	[REDACTED]
1	[REDACTED]	[REDACTED]	[REDACTED]
1	[REDACTED]	[REDACTED]	[REDACTED]
1	[REDACTED]	[REDACTED]	[REDACTED]



**Potential Impact.** The items are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

**Evaluation and Recommendations.** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding prehistory, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location.





[REDACTED]

**IF 7063-9, Isolated Glass Jar Fragments**

[REDACTED]

***Topographic Setting.*** [REDACTED]

[REDACTED]  
loamy deposition supports minimal gravels of sandstone and limestone. Vegetation is dominated by clumps of short grasses and clumps of prickly forbs, spaced sage, prickly pear, and creeping spongy lichen. [REDACTED]

***Artifact 1, Glass Jar.*** About 100 fragments of a broken clear glass gallon jar are concentrated within an [REDACTED]

[REDACTED]

***Potential Impact.*** The artifact is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolate location is not known.

***Evaluation and Recommendations.*** This is an isolated artifact with no indications of associated cultural features, deposits, or other artifacts. The location has no historical significance or research potential and is considered not eligible for the National Register. No further work or attention is recommended.

***Datum.*** No datum was placed at this private surface location.



**IF 7063-10, Historic Artifacts (Herder Camp)**

[REDACTED]

*Topographic Setting.*

[REDACTED] Reno to Salt Creek Road (48CA4868), [REDACTED]. Silty loam supports a minimal natural gravel cover dominated by sandstone and limestone. Vegetation is spaced and sparse and consists of clumps of short grass-prickly forb sod interspersed with erosional bare areas, scattered sage, and prickly pear. There is also considerable creeping spongy lichen. [REDACTED]

*Cultural Remains.* Twenty-one historic artifacts are within a cultural [REDACTED]

[REDACTED]

*Historic Artifacts*

Art.	Description
1	[REDACTED]
[REDACTED]	[REDACTED]



**Potential Impact.** The items are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

**Evaluation and Recommendations.** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-11, Prehistoric Lithic Scatter and Historic Artifacts**

[REDACTED]

***Topographic Setting.*** [REDACTED]

The cultural area is separated from the river to the north by long, steep eroded slopes on the eastern end of the locality and more gentle slopes that drop to an upper terrace on the western end of the locality. To the south the crest drops off in very gentle slopes with patchy sage, while the sheet-eroded crest has almost no sage. Exposed clayey loam supports a moderate gravel cover consisting of quartzite, chert, sandstone, limestone, and petrified wood. Vegetation is sparse and spaced and consists of clumps of short grass-prickly forb sod interspersed with erosional bare areas, some ground-level prickly forb clusters, and creeping spongy lichen. [REDACTED]

[REDACTED]

***Cultural Remains.*** Nine lithic artifacts and four historic [REDACTED]

[REDACTED]

***Artifact 1, End Scraper.*** [REDACTED]

[REDACTED]

***Artifact 2, End Scraper.*** [REDACTED]

[REDACTED]

***Artifact 3, Preform.*** [REDACTED]

[REDACTED]

*Artifact 4, Flake.*

[Redacted]

*Artifact 5, Flake.*

[Redacted]

*Artifact 6, Flake.*

[Redacted]

*Artifact 7, Flake. A*

[Redacted]

*Artifact 8, End Scraper.*

[Redacted]

*Artifact 9, Blank.*

[Redacted]

*Historic Artifacts*

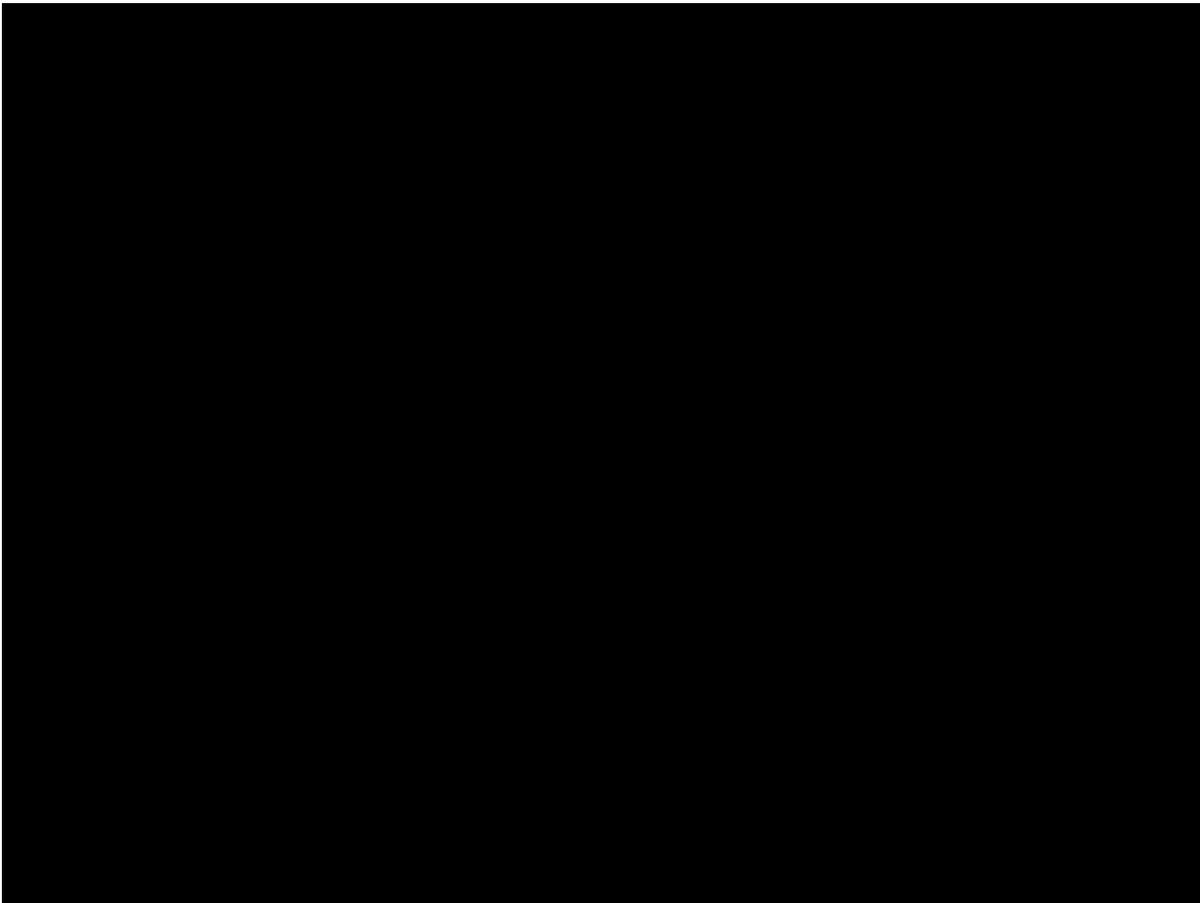
No.	Description
A	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]
[Redacted]	[Redacted]

**Potential Impact.** The items are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.



*Evaluation and Recommendations.* This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding prehistory or history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

*Datum.* No datum was placed at this private surface location.







[REDACTED]

**IF 7063-15, Isolated Flake**

[REDACTED]

***Topographic Setting.*** [REDACTED]

[REDACTED] The compact silty loam supports almost no gravels, but those present are pebbles of sandstone, limestone, and shale. Sheetwash erosion has resulted in minimal vegetation dominated by clumps of short grass-prickly forb sod interspersed with erosional bare areas, some prickly pear, small scattered sage, and some creeping spongy lichen. [REDACTED]

[REDACTED]

***Artifact 1, Flake.*** [REDACTED]

***Potential Impact.*** The artifact is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolate location is not known.

***Evaluation and Recommendations.*** This is an isolated artifact with no indications of associated cultural features, deposits, or other artifacts. The location has no historical significance or research potential and is considered not eligible for the National Register. No further work or attention is recommended.

***Datum.*** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-18, Isolated Flake**

[REDACTED]

***Topographic Setting.*** [REDACTED]

[REDACTED] This is an area of compact silty loam with almost no natural gravels, but in surrounding areas are some pebbles of sandstone, limestone, and shale. Vegetation is sparse and consists of scattered sage, some clumps of prickly forbs, and sprigs of short grasses immediately around the isolate. Surrounding areas have a better developed sod zone with short grass-prickly forb sod interspersed with erosional bare areas. In the sod zone there is some creeping spongy lichen and prickly pear. [REDACTED]

***Artifact 1, Flake.*** [REDACTED]

***Potential Impact.*** The artifact is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolate location is not known.

***Evaluation and Recommendations.*** This is an isolated artifact with no indications of associated cultural features, deposits, or other artifacts. The location has no historical significance or research potential and is considered not eligible for the National Register. No further work or attention is recommended.

***Datum.*** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-19, Isolated Hole-in-Top Can**

[REDACTED]

***Topographic Setting.*** [REDACTED]

[REDACTED] This is an area of compact silty loam, and there is a minimal natural gravel cover of sandstone, quartzite, and chert pebbles. Clumps of short grass-prickly forb sod are interspersed with erosional bare areas, along with spaced sage, some prickly pear, and an abundance of creeping spongy lichen. Vantage is oriented south, southeast, and east into the Belle Fourche River bottomland.

***Artifact 1, Hole-in-Top Can.*** [REDACTED]

[REDACTED]

***Potential Impact.*** The artifact is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolate location is not known.

***Evaluation and Recommendations.*** This is an isolated artifact with no indications of associated cultural features, deposits, or other artifacts. The location has no historical significance or research potential and is considered not eligible for the National Register. No further work or attention is recommended.

***Datum.*** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-20, Isolated Glass Bottle**

[REDACTED]

***Topographic Setting.*** [REDACTED]

[REDACTED] vegetation consists of clumps to patches of short grass-prickly  
forb sod, scattered sage, scattered prickly pear, and an abundance of creeping spongy  
lichen. Vantage is open with a good view in all directions, but with an orientation south  
and southeast into the Belle Fourche River valley.

***Artifact 1, Glass Bottle.*** [REDACTED]

[REDACTED]

***Potential Impact.*** The artifact is within the proposed AUC LLC uranium project area.  
Specific disturbance areas have not yet been defined, and potential impact on the isolate  
location is not known.

***Evaluation and Recommendations.*** This is an isolated artifact with no indications of  
associated cultural features, deposits, or other artifacts. The location has no historical  
significance or research potential and is considered not eligible for the National Register.  
No further work or attention is recommended.

***Datum.*** No datum was placed at this private surface location.



**IF 7063-22, Lithic Scatter**

**Topographic Setting.** A [redacted]

[redacted] The eroded edge ranges 8-10 feet wide and is separated from the rest of the crest by a short eroded embankment. The vertical embankment shows about 50 cm (from the grassy crest to the artifacts) of silty loam overlying a reddish-clay loam (ca. 30 cm thick) over gray clays with sandstone outcroppings. Artifacts are concentrated around a small ant bed, but there is considerable exposure, particularly to the south, along this eroded edge, and no additional artifacts and no features were observed. Gravels are minimal and consist of sandstone and quartzite. Vegetation on the crest is a short grass-prickly forb sod interspersed with erosional bare areas, scattered sage, and prickly pear, with some creeping spongy lichen. Within the area of the exposed artifacts there are just a few sprigs of short grasses and a few prickly forbs, and most of this area is bare of vegetation. Vantage is open with good views in all directions, but there is an orientation west toward the Belle Fourche River.

**Cultural Remains.** Five lithic artifacts [redacted]

[redacted] highly eroded nature of this area indicates no potential for associated cultural deposits.

**Prehistoric Artifacts.** Flakes have no lateral retouch or evidence of use; \* indicates fragmentary. Maximum size is in mm.

Art.	Description	Material	Size
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

**Potential Impact.** The artifacts are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

**Evaluation and Recommendations.** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding prehistory, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location.





[REDACTED]

**IF 7063-23, Isolated Flake**

[REDACTED]

***Topographic Setting.*** [REDACTED]

[REDACTED] Ground-level sandstone outcroppings are fracturing into small pebbles and cobbles, and there is some shale in the gravels. Vegetation consists of short grass-prickly forb sod interspersed with erosional bare areas, scattered short sage, and an abundance of creeping spongy lichen. There are some surrounding areas of prickly pear. [REDACTED]

[REDACTED]

***Artifact 1, Flake.*** [REDACTED]

[REDACTED]

***Potential Impact.*** The artifact is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolate location is not known.

***Evaluation and Recommendations.*** This is an isolated artifact with no indications of associated cultural features, deposits, or other artifacts. The location has no historical significance or research potential and is considered not eligible for the National Register. No further work or attention is recommended.

***Datum.*** No datum was placed at this private surface location.



**IF 7063-25, Historic Artifacts (Herder Camp)**

**Topographic Setting.**

This is an area of sandy to silty loam, which in areas surrounding the erosional dip is held in place with a short grass-prickly forb sod. Surrounding areas also have scattered prickly pear, sage, and creeping spongy lichen. In addition to sage, the erosional dip supports a few sprigs of short grasses and some prickly forbs, but most of the dip is free of vegetation. Vantage is oriented northeast toward the drainage bottom with a good view both up and downstream.

**Cultural Remains.** Twenty-three historic artifacts,

**Historic Artifacts**

Description
(n=7)
sardine cans opened with a pry opener (n=2)

**Potential Impact.** The items are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

**Evaluation and Recommendations.** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-26, Livestock Windbreak**

[REDACTED]

**Topographic Setting.** [REDACTED]

[REDACTED] is an area of shallow loam soil overlying clay, and there are minimal exposed gravels of sandstone, limestone, and shale. The grassy zone consists of short grass-prickly forb sod interspersed with erosional bare areas and occasional prickly pear as well as some creeping spongy lichen. Surrounding and interspersed with the grassy zone are sagebrush communities dominated by continuous but spaced sage, which contains some clumps of short grass-prickly forb sod, prickly pear, and creeping spongy lichen. Vantage is oriented east toward the lower country.

**Cultural Remains.** A semi-circular windbreak for livestock [REDACTED]

[REDACTED]

**Potential Impact.** The remains are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

**Evaluation and Recommendations.** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. Integrity of the windbreak is poor. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-27, Historic Artifacts (Herder Camp)**

[REDACTED]

**Topographic Setting.** [REDACTED]

[REDACTED] This is an area of low rolling ridges and hills separating wide drainage head swales, with some channelization near the bottom of the draws, and then, as is the case here, flattening out to a wide bottomland area to the northwest. Relatively thin silty loam overlies clayey loam. In this area there is almost no natural gravel exposed on the surface, with only a few scattered sandstone pieces. Vegetation consists of short grass-prickly forb sod interspersed with erosional bare areas, considerable creeping spongy lichen, occasional prickly pear, and scattered to patchy sage. Vantage is oriented northeast and east into wide bottomland flats.

**Cultural Remains.** Five historic items [REDACTED]

[REDACTED]

Art.	Description
1	[REDACTED]
	[REDACTED]
	[REDACTED]
	[REDACTED]
	[REDACTED]

**Potential Impact.** The items are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

**Evaluation and Recommendations.** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location.



**IF 7063-28, Prehistoric Lithic Scatter and Historic Artifacts**

**Topographic Setting.**

. Most of the artifacts are exposed in a grass zone on the flat crest, but two to the west are on the edge of the sage area, on the upper very gentle slope. This is an area of compact silty loam with a dense pebble gravel cover dominated by sandstone, which is exposed here as ground-level exposures that are fracturing into cobbles and pebbles. The grassy zone consists of short grass-prickly forb sod interspersed with erosional bare areas, occasional prickly pear, and some creeping spongy lichen. The sage zone has continuous but spaced sage with some prickly pear. Vantage is open with good views in all directions, including an excellent view of Pumpkin Buttes on the horizon.

**Cultural Remains.** Four lithic artifacts and four historic items

**Prehistoric Artifacts.**

Art.	Description	Material	Size
1			

**Historic Artifacts**

No.	Description
A	

Artifact A, Ceramic Sherds.

**Potential Impact.** The items are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

**Evaluation and Recommendations.** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding prehistory or history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location. The metal marker pipe set in concrete was used as our temporary mapping datum.





[REDACTED]

**IF 7063-30, Livestock Windbreak**

[REDACTED]

***Topographic Setting.*** [REDACTED]

The windbreak is below the crest of the ridge and flanks the west side of the drainage. Loam in this area supports considerable cheatgrass within and around the old windbreak. Outside the grassy zone are sagebrush communities dominated by continuous but spaced sage, clumps of short grass-prickly forb sod, prickly pear, and creeping spongy lichen. Vantage is oriented downstream to the southeast.

***Cultural Remains.*** The semi-circular windbreak [REDACTED]

[REDACTED]

***Potential Impact.*** The remains are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

***Evaluation and Recommendations.*** This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. Integrity of the windbreak is poor. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

***Datum.*** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-32, Windmill**

[REDACTED]

***Topographic Setting.*** [REDACTED]

[REDACTED] Silty loam supports a minimal natural gravel cover of sandstone, chert, and quartzite pebbles. Vegetation around the windmill is dominated by cheatgrass with some prickly pear. Away from the facility are clumps to patches of short grass-prickly forb sod, scattered sage, scattered prickly pear, and an abundance of creeping spongy lichen. Vantage is open with a good view in all directions, but with an orientation east toward the Belle Fourche River.

***Cultural Remains.*** A stock watering facility [REDACTED]

[REDACTED]

***Age and Condition.*** Construction style, kinds of materials, and condition suggest that the facility could have been established by the 1950s and subsequently upgraded. Records at the State Engineer's Office ([seo.state.wy.us](http://seo.state.wy.us)) show a well at this location but provide no documentation.

***Potential Impact.*** The well is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact to the location is not known.

***Evaluation and Recommendations.*** This well does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

***Datum.*** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-33, Windmill**

[REDACTED]

**Topographic Setting.** [REDACTED]

[REDACTED] Silty loam supports cheatgrass around the facility. Surrounding is also short grass-prickly forb sod, scattered prickly pear, sage, and creeping spongy lichen. Vantage is open across the wide tributary valley bottom.

**Cultural Remains.** The windmil [REDACTED]

[REDACTED]

**Age and Condition.** [REDACTED]

[REDACTED]

**Potential Impact.** The well is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact to the location is not known.

**Evaluation and Recommendations.** This well does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location.



[REDACTED]

**IF 7063-34, Windmill**

[REDACTED]

**Topographic Setting.** [REDACTED]

[REDACTED] loam supports few gravels on the surface, with only a few scattered sandstone pieces. Vegetation around the windmill is dominated by short grasses and some prickly pear. Away from the facility are clumps to patches of short grass-prickly forb sod, scattered sage, scattered prickly pear, and creeping spongy lichen. Vantage is oriented east into the wide valley.

**Cultural Remains.** The windmill [REDACTED]

[REDACTED]

**Age and Condition.** [REDACTED]

[REDACTED]

**Potential Impact.** The well is within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact to the location is not known.

**Evaluation and Recommendations.** This well does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

**Datum.** No datum was placed at this private surface location.



**IF 7063-36, Historic Trash Dump**

[REDACTED]

*Topographic Setting.*

[REDACTED]

[REDACTED]. Loamy deposition supports a vegetative cover away from the grassy drainage bottom of short grass-prickly forb sod interspersed with erosional bare areas, scattered to patchy sage, some prickly pear, and creeping spongy lichen. Vantage is open, but there is somewhat of an orientation northeast and east immediately into the drainage.

*Cultural Remains.* A variety of historic materials

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

*Potential Impact.* The items are within the proposed AUC LLC uranium project area. Specific disturbance areas have not yet been defined, and potential impact on the isolated resource location is not known.

*Evaluation and Recommendations.* This isolated resource does not meet any of the National Register Criteria A, B, C, or D and therefore is recommended as *not eligible* for the National Register. The location has no important information potential under Criterion D. There is no potential for buried deposits or additional surface artifacts that could be a source of unretrieved important data pertaining to understanding history, and the location is not considered eligible for the National Register. No further work is recommended, whether or not the location is ever to be impacted by construction.

*Datum.* No datum was placed at this private surface location.





**SUMMARY AND RECOMMENDATIONS.** The proposed uranium test and development area was surveyed for cultural resources. Seventy-nine cultural localities are known within the Reno Creek project area. Of these, 41 were previously recorded, and 38 were found during the present inspection. Survey results were not unexpected based on background research and survey conditions. There were no unusual problems, and survey reliability is considered good. The following recommendations are made for this project.

1. **Effect to Cultural Resources.** Of the total 78 localities, it is unknown which will be impacted by the uranium project since specific impact areas have not yet been defined. However, all cultural remains are considered not eligible for the National Register, and no further work or special consideration is recommended for any location relative to the proposed project.
2. **Buried Cultural Deposit Potential.** There appears to be very little chance for buried cultural materials within the project area, although there are some areas of sandy loam. No additional testing or monitoring of subsurface disturbance is recommended in any area.
3. **Unanticipated Findings.** If subsurface cultural materials are found during operations, the head of the federal permitting agency should be notified immediately.
4. These recommendations are subject to evaluation and approval by the permitting agency and private landowners.

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