

CULTURAL RESOURCES

CITY OF SHELBY HUMIC WATER MAIN EXTENSION: A CLASS III CULTURAL RESOURCE INVENTORY IN TOOLE COUNTY, MONTANA

Prepared For:
City of Shelby, Montana

Principal Investigators:
James Welch

Prepared By:
Matthew Hull

KLJ
4585 Coleman Street
Bismarck, North Dakota 58503

REPORT OF INVESTIGATION: 2429

MAY 2016



**CITY OF SHELBY HUMIC WATER MAIN EXTENSION: A
CLASS III CULTURAL RESOURCE INVENTORY IN TOOLE
COUNTY, MONTANA**

Prepared For:
City of Shelby, Montana

Principal Investigators:
James Welch

Prepared By:
Matthew Hull

**KLJ
4585 Coleman Street
Bismarck, North Dakota 58503**

Report of Investigation: 2429

May 2017

ABSTRACT

The City of Shelby, Montana contracted KLJ to conduct a Class III Cultural Resource Inventory for the installation of a six-inch water main running east to a Humic facility. Due to the facility being at the top of a bluff 100 feet above the City of Shelby, a booster pump station will be installed near the connection to the city's existing water system. The total length of the line is approximately 1.1 miles. The total area inventoried was 40 acres.

An initial file search of the Montana State Historic Preservation Office's records was requested by KLJ engineer James Slayton on April 27, 2017. A larger file search of the Montana State Historic Preservation Office's records was requested by KLJ archaeologist Matthew Hull on May 9, 2017. Eleven cultural resources were identified within one-mile of the project area. However, none were located inside the project area. In addition, 16 manuscripts are on-file in section blocks that intersect the same one-mile search area.

The inventory was conducted by KLJ archaeologist Matthew Hull on May 5, 2017. During the inventory, no cultural resources were encountered.

Provided all work and ground disturbance stays within the inventoried area, KLJ recommends a finding of *No Effect* for the proposed project as inventoried, mapped, photographed, and described herein.



TABLE OF CONTENTS

Abstract	ii
Introduction	1
Environmental Setting	4
Topography	4
Fauna	4
Flora	4
File Search	5
Field Methods/Conditions	6
Results	7
Summary and Management Recommendations	8
References Cited	9
Appendix A: Project Area Photographs	10
Appendix B: File Search Results	13

TABLE OF TABLES

Table 1: Legal Location of Proposed Project in Toole County	1
Table 2: Summary of Cultural Resource Located within the Cultural Resource Inventory.	8
Table 3: Previously Recorded Cultural Resources within One Mile of the Project Area	14
Table 4: Previous Inventory List for Projects Conducted within One Mile of the Project Area	14

TABLE OF FIGURES

Figure 1: County Location Map	2
Figure 2: Topographic Location Map	3
Figure 3: Overview of western portion of APE, view to the northwest	11
Figure 4: Overview of central portion of APE in coulee, view to the west	11
Figure 5: Overview of central portion of APE, view to the east	12
Figure 6: Overview from eastern terminus of APE, view to the west	12



INTRODUCTION

The City of Shelby, Montana contracted KLJ to perform a Class III Cultural Resource Inventory for the installation of a six-inch water main running east to a Humic facility. Due to the facility being at the top of a bluff 100 feet above the City of Shelby, a booster pump station will be installed near the connection to the city's existing water system.

The area of potential effect (APE) consists of a single, 1.1-mile-long strip of land measuring 150 feet on each side of the proposed water pipe's centerline. The proposed path parallels an existing waterline installed by a private individual over 40 years ago.

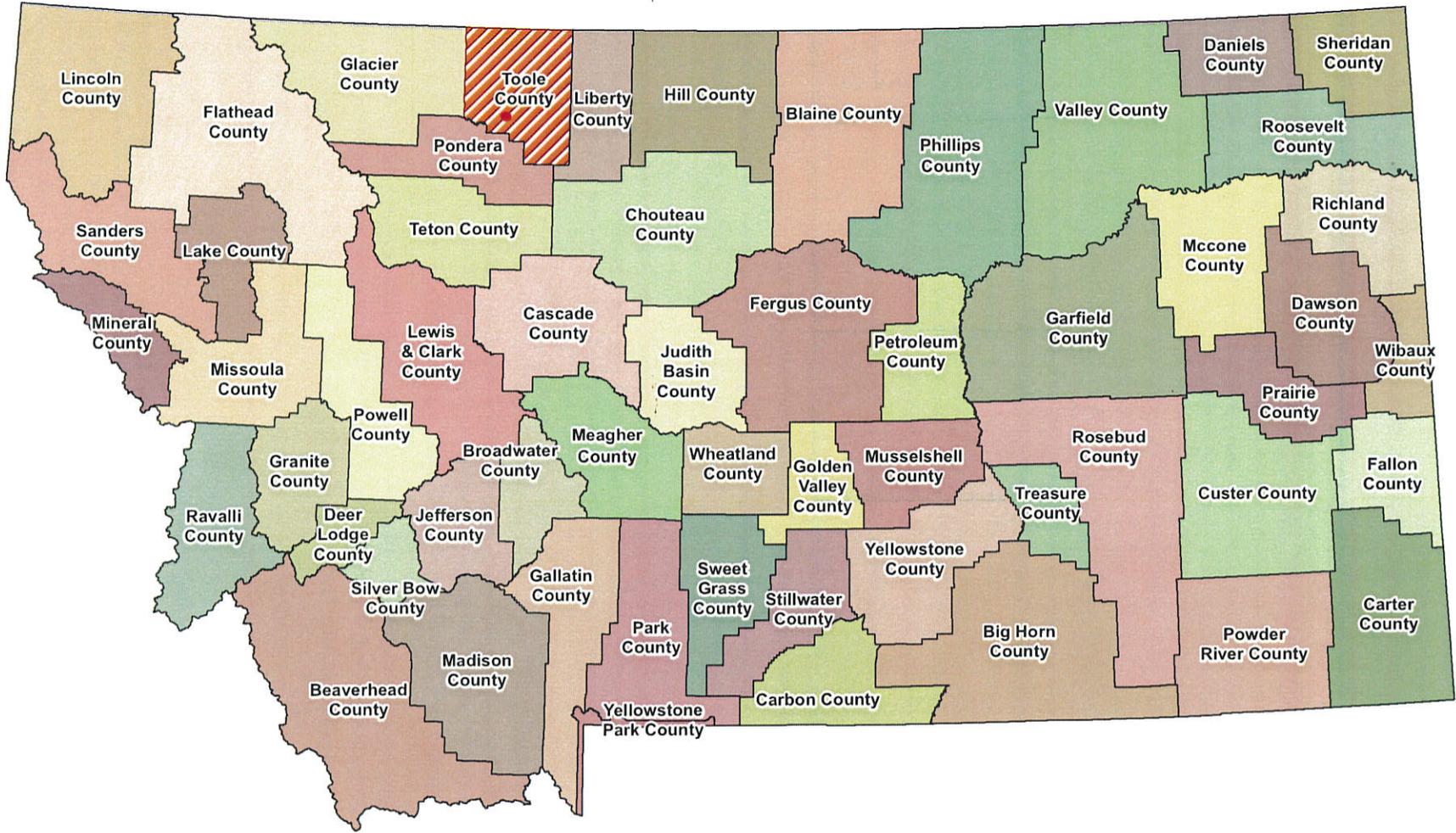
The inventory was conducted on May 5, 2017 by KLJ archaeologist Matthew Hull. A total of 40 acres were inventoried to Class III standards, with extra attention given to areas of high potential for cultural resources. During the inventory, no cultural resources were located within the project's APE. The interpretation of the inventory results will be discussed in detail in the **Results** and **Summary and Management Recommendations** sections of this document. The entirety of the site forms, illustrations, maps, field notes, and photographic records relevant to the undertaking are on file at the KLJ office in Bismarck, North Dakota.

Table 1: Legal Location of Proposed Project in Toole County

Township	Range	Section
T. 32 N	R. 2 W	35



Document Location: \\nas-lev01\PC\GIS\MT\Shelby_441818\Humic_Water_Main_Extension\Color\028_441818_CULTURAL_STUDY_001.mxd



Restrictions:
For Official Use Only:
Disclosure of Cultural Site Locations
Prohibited (43 CFR 7.18)

Figure 1

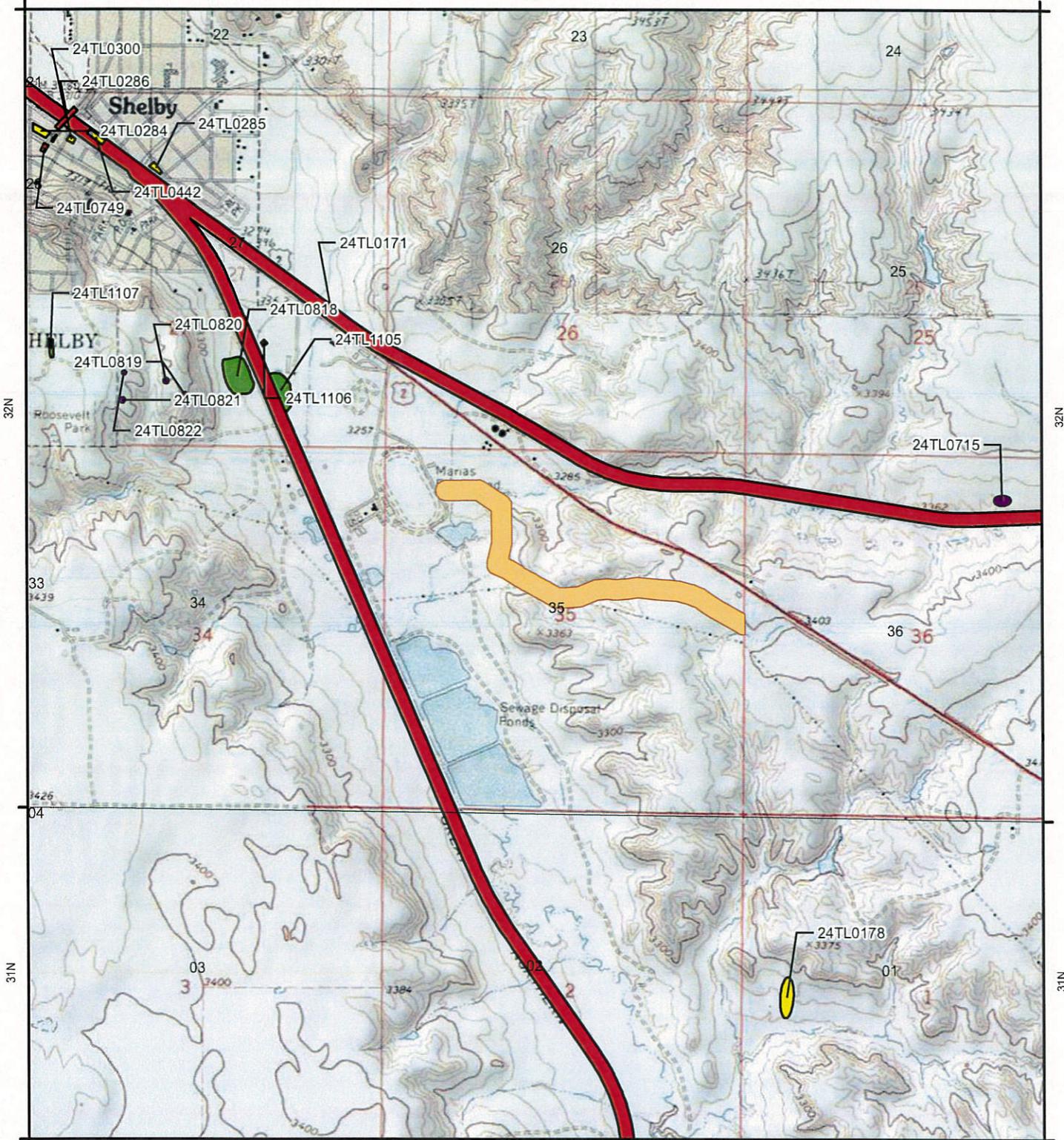
City of Shelby Humic Water Main Extension Toole County, Montana



Project Area

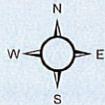
Map Scale: 1:3,900,000





City of Shelby Humic Water Main Extension Topographic Map

Quadrangle: Naismith



1:24,000

Key

- Class III Inventory
- ELIGIBLE
- NOT ELIGIBLE
- UNDETERMINED
- UNRESOLVED

Figure 2

Restrictions:
For Official Use Only;
Disclosure of Cultural Site Locations
Prohibited (43 CFR 7.18)

KLJ Project Number: 4415018
Date Created: 5/19/2017 Created By: DNP

Document Location: \\shelby\GIS\City\GIS\4415018-Humic Water Main Extension\Cultural\GIS\4415018_CultureReport\Aerial_topo.mxd

ENVIRONMENTAL SETTING

The following environmental setting is excerpted from Park 2016.

Topography

The project area is in north-central Montana south of the Milk River, a major drainage that feeds into the Missouri River. The Marias River is the largest local water source, feeding into the Missouri River. The project area is within the rolling and open Marias River Valley watershed of the Montana North Central Brown Glaciated Plains ecoregion. The ecoregion is characterized by alluvial deposits and largely undissected glacial till. The project area is near the City of Shelby, MT. The topography in the project area is flat fields, drainages, and coulees.

Fauna

The vegetation in the project area supports a variety of animals. Bison (*Bison bison*) used to occupy the study area, but today large game is composed primarily of mule deer (*Odocoileus hemionus*), white-tailed deer (*Odocoileus virginianus*), and pronghorn (*Antilocapra americana*).

Carnivores include coyote (*Canis latrans*), swift fox (*Vulpes velox*), gray wolf (*Canis lupus*), badger (*Taxidea taxus*), and bobcat (*Lynx rufus*). Smaller mammals include several species of voles, shrews, and mice. Common birds found within the project area are the burrowing owl (*Athene cunicularia*) and bald eagle (*Haliaeetus leucocephalus*).

Flora

While large portions of the project area surroundings are developed, the direct project area remains undeveloped (except for a formerly plowed field and the railroad corridor) and consists of a similar mixed grass prairie that constitutes much of the land surrounding Shelby. The mixed grass prairie includes several species of native and non-native grasses. Native plant species include the heavily dominant western wheatgrass (*Pascopyrum smithii*) as well as thickspike wheatgrass (*Elymus lanceolatus*), green needlegrass (*Nasella viridula*), blue grama (*Bouteloua gracilis*), rough fescue (*Festuca campestris*), and Idaho fescue (*Festuca idahoensis*). Non-native species include Kentucky bluegrass (*Poa pratensis*), smooth brome, (*Bromus inermis*), and Japanese brome (*Bromus japonicas*) (Luna et al. 2010).



FILE SEARCH

KLJ engineer James Slayton requested an initial file search of the Montana State Historic Preservation Office (SHPO) site and manuscript files on April 27, 2017. KLJ archaeologist Matthew Hull requested a larger file search of Montana SHPO records on May 9, 2017. The review revealed 11 previously recorded cultural resources located within one mile of the project area. They include seven prehistoric sites and four historical sites, however none are in the APE. The file search also revealed that 16 manuscripts are on file in all section blocks that intersect a one-mile buffer around the APE. They include primarily transportation, industrial park, water, and electrical surveys, as well as various other types of archaeological surveys conducted between 1982 and 2014. The results of the file search are presented in **Appendix B** (Tables 3 and 4).



FIELD METHODS/CONDITIONS

KLJ conducted a Class III Cultural Resource Inventory for the proposed project on May 5, 2017. Field personnel consisted of KLJ archaeologist Matthew Hull. The APE consists of a 1.1-mile-long, 300-foot-wide corridor (150 feet on each side of the centerline), totaling 40 acres. The APE was inventoried using parallel pedestrian transects spaced no more than 30 meters (m) apart.

The project area is southeast of Shelby, Montana. It starts at a gravel road where it will tie-in with an existing water main. It then runs roughly east-southeast across native, shortgrass prairie. It then continues up a coulee, up a finger ridge, and finally into a formerly plowed field where the corridor ends. In the coulee and along the finger ridge, the vegetation transitions to xerophytic sagebrush. Ground surface visibility (GSV) varied greatly, but averaged around 35 percent. The shortgrass prairie averaged 40 GSV, partially due to several rodent burrows. The xerophytic sage brush had the highest GSV, around 90 percent. The previously plowed field contains non-native grasses and had the lowest GSV at less than ten percent. The weather at the time of the survey was cool, windy, and clear.



RESULTS

No cultural resources were encountered during the Class III Cultural Resource Inventory.



SUMMARY AND MANAGEMENT RECOMMENDATIONS

The City of Shelby contracted KLJ to conduct a Class III Cultural Resource Inventory for a water main extension outside Shelby, Montana. A total of 40 acres were surveyed to Class III standards for the project. The inventory was conducted on May 5, 2017 by KLJ archaeologist Matthew Hull.

During the inventory, no cultural resources were encountered.

Provided all work and ground disturbance stays within the inventoried area, KLJ recommends a finding of *No Effect* for the proposed project as inventoried, mapped, photographed, and described herein.

Table 2: Summary of Cultural Resource Located within the Cultural Resource Inventory.

SITS	Type	NRHP Status	Recommendation
	No cultural resources encountered		



REFERENCES CITED

Luna, T., L. K. Vance, C. McIntyre, and S. V. Cooper

2010 Montana Field Guides – Ecological Systems. http://fieldguide.mt.gov/displayES_LCLU.aspx, accessed February 4, 2016.

Park, Robin J. M.

2016 Humic Gas Line Extension: A Class III Cultural Resource Inventory in Toole County, Montana
Manuscript on file, Montana State Historic Preservation Office. Helena, Montana.





APPENDIX A: PROJECT AREA PHOTOGRAPHS



Figure 3: Overview of western portion of APE, view to the northwest.

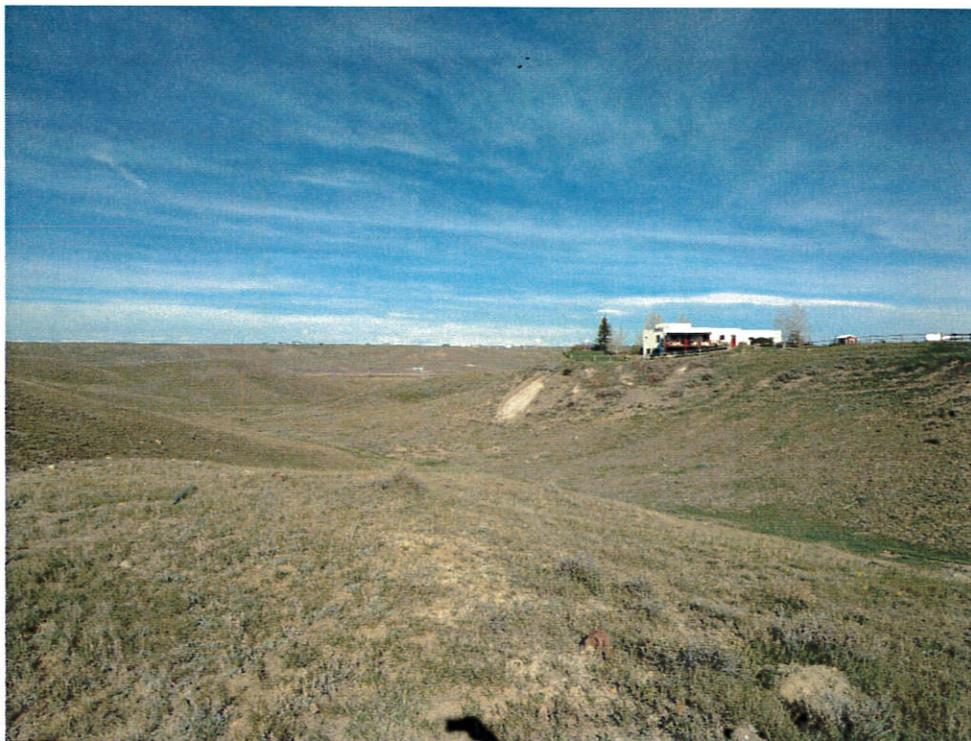


Figure 4: Overview of central portion of APE in coulee, view to the west.





Figure 5: Overview of central portion of APE, view to the east.



Figure 6: Overview from eastern terminus of APE, view to the west.





APPENDIX B: FILE SEARCH RESULTS

Table 3: Previously Recorded Cultural Resources within One Mile of the Project Area

Twn	Rng	Sec	SITS #	Site Type	Eligibility
31	2	1	24TL0178	Firehearths or Roasting Pits, FCR	<i>Undetermined</i>
31	2	2	24TL0171	Historic Railroad	<i>Eligible</i>
31	2	3		No cultural resources recorded	
32	2	25		No cultural resources recorded	
32	2	26	24TL0171	Historic Railroad	<i>Eligible</i>
32	2	27	24TL0171	Historic Railroad	<i>Eligible</i>
			24TL0818	Historic Industrial Development	<i>Ineligible</i>
			24TL0819	Tipi Ring	<i>Unresolved</i>
			24TL0820	Tipi Ring	<i>Unresolved</i>
			24TL0821	Tipi Ring	<i>Unresolved</i>
			24TL0822	Tipi Ring	<i>Unresolved</i>
			24TL1105	Historic Trash Dump	<i>Ineligible</i>
24TL1106	Historic Building Foundation	<i>Ineligible</i>			
32	2	34	24TL0171	Historic Railroad	<i>Eligible</i>
32	2	35	24TL0171	Historic Railroad	<i>Eligible</i>
32	2	36	24TL0171	Historic Railroad	<i>Eligible</i>
			24TL0714	Tipi Ring; Rock Cairn(s)	<i>Unresolved</i>
			24TL0715	Tipi Ring	<i>Unresolved</i>

Table 4: Previous Inventory List for Projects Conducted within One Mile of the Project Area

MS #	Title	Author	Date
TL 6 9926	CULTURAL RESOURCE INVENTORY STORM DRAIN RIGHT-OF-WAY SHELBY COMMUNITY STORM DRAIN RIGHT-OF-WAY	Wood, Garvey C.	1982
TL 4 9893	HIGHWAY CONSTRUCTION PROJECT F1-4(1)280 SHELBY EAST	Smith, Charline G.	1983
TL 5 9911	MARIAS RIVER ELECTRIC COOPERATIVE POWERLINE #3	Passmann, Dori	1986
TL 6 9928	CULTURAL RESOURCES INVENTORY OF THE CONRAD TO SHELBY 230KV TRANSMISSION LINE PROJECT (FINAL REPORT WITH "APPENDIX F SITE AND ISOLATED FIND FORMS" ATTACHED)	Martorano, Marilyn A., et al.	1987
TL 5 17273	KALBFLEISCH SITE	Samdahl, Rod	1995
ZZ 6 23236	A CLASS I CULTURAL RESOURCE INVENTORY OF THE PROPOSED NORTH CENTRAL MONTANA REGIONAL WATER SYSTEM	Brumley, John H.	1997
TL 6 23393	SHELBY GRAIN TERMINAL - LOOP RAIL SIDING	Wood, Garvey C.	2000
TL 5 26531	MONTANA BOARD OF INVESTMENTS	Brumley, John	2001



MS #	Title	Author	Date
TL 4 25824	CULTURAL RESOURCE INVENTORY OF SIX PROPOSED BURIED TELEPHONE CABLE SEGMENTS IN TOOLE AND GLACIER COUNTIES, MONTANA	Caywood, Janene M. and Carla Homstad	2003
TL 6 28972	RESULTS OF A CULTURAL RESOURCE INVENTORY OF MONTANA DEPARTMENT OF TRANSPORTATION'S FRONT STREET BNSF OVERPASS-SHELBY PROJECT BR-1(2)0	Wood, Garvey C.	2006
TL 6 30014	CONTROL NUMBER 4537 IN TOOLE COUNTY MONTANA	Wood, Garvey C.	2008
TL 2 32583	SHELBY INDUSTRIAL PARK	Chase, Joshua C.	2010
TL 6 38514	SHELBY REFINERY BROWNFIELD PROJECT	Mitchell, Mary R.	2012
TL 6 33868	NRCS SHELBY PIPELINE PROJECT	Macy, Jennifer	2012
TL 6 34061	CITY OF SHELBY INDUSTRIAL PARK EXPANSION	Macy, Jennifer N.	2013
TL 4 37573	PORT OF NORTHERN MONTANA MULTIMODAL HUB: A CLASS III CULTURAL RESOURCE INVENTORY IN TOOLE COUNTY, MONTANA	Park, Robin J. M.	2014



TEMPORARY PARKING PERMIT

Trailer Type	20' Dutchman Camper
Name	Mark Emerson
Address	901 Birch Ave/ parked by 663 Hill Ave
Phone #	(406) 424-5670
Date(s) Valid	05/19/17—05/26/17
Permit Number	2017-008

MAYOR

CONDITIONS OF

Larry Bondarud

THIS PERMIT:

for date(s) indicated.

- 1. Valid ONLY*
- 2. Must be displayed while parked at all times.*
- 3. The acceptance of this permit relieves the City of Shelby of any responsibility for damages to or loss of vehicle, its contents or accessories from any cause whatsoever.*

CITY OF SHELBY

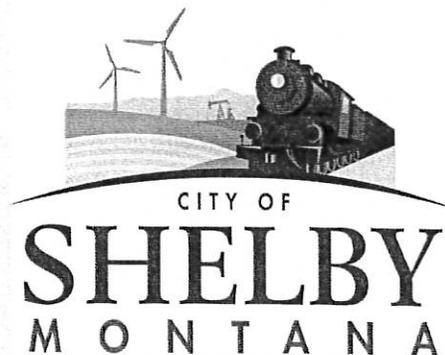
112 First Street South

Shelby, MT 59474

Telephone: (406) 434-5222

FAX: (406) 434-2039

www.shelbymt.com



TEMPORARY PARKING PERMIT

Trailer Type	37' Talon 5th Wheel Camper
Name	Mike & Helen Lingle
Address	124 12th Ave N
Phone #	(406) 450-0964
Date(s) Valid	05/21/17—05/26/17
Permit Number	2017-009

Larry Bondarud MAYOR

CONDITIONS OF THIS PERMIT:

1. *Valid ONLY for date(s) indicated.*
2. *Must be displayed while parked at all times.*
3. *The acceptance of this permit relieves the City of Shelby of any responsibility for damages to or loss of vehicle, its contents or accessories from any cause whatsoever.*

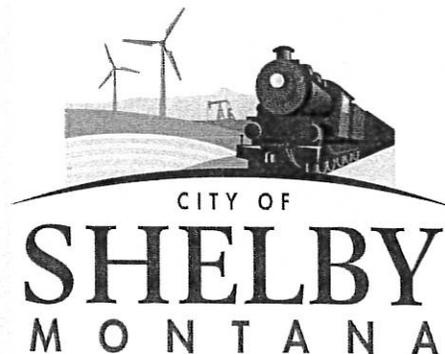
CITY OF SHELBY

112 First Street South
Shelby, MT 59474

Telephone: (406) 434-5222

FAX: (406) 434-2039

www.shelbymt.com



TEMPORARY PARKING PERMIT

Trailer Type	2005 Tandem 5th Wheel
Name	Jim & Marleen Blair
Address	709 8th St S
Phone #	(406) 424-5016
Date(s) Valid	05/22/2017—06/02/2017
Permit Number	2017-010

Larry Bondarud

MAYOR

CONDITIONS OF THIS PERMIT:

1. Valid *ONLY* for date(s) indicated.
2. Must be displayed while parked at all times.
3. The acceptance of this permit relieves the City of Shelby of any responsibility for damages to or loss of vehicle, its contents or accessories from any cause whatsoever.

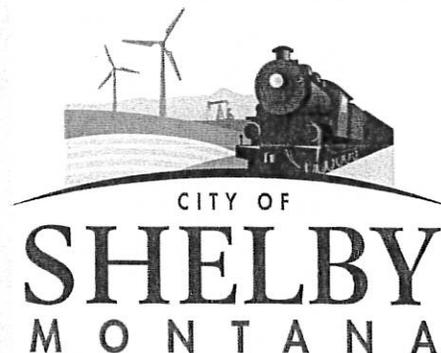
CITY OF SHELBY

112 First Street South
Shelby, MT 59474

Telephone: (406) 434-5222

FAX: (406) 434-2039

www.shelbymt.com



**CITY OF SHELBY
MONTHLY ANIMAL CONTROL REPORT**

April 2017
(Month) (Year)

<u>Animal Control Calls and/or Complaints</u>			
City Hall or Public Works.....	7		Dog/Cat
Sheriff's Office.....	<u>12</u>	6-1	
On Patrol.....	<u>12</u>	12-0	
		9-3	

<u>Fees Collected by Animal Control Officer</u>	
Destroyed- Animals brought in.....	<u>0</u>
License.....	<u>0</u>
Pound	<u>0</u>
Rabies Shot.....	<u>0</u>

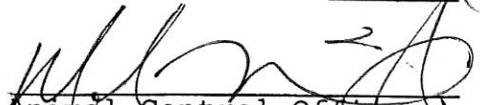
<u>Pound Activity</u>	
Animals in pound at end of last month.....	<u>0</u>
Impounded.....	+ <u>5</u>
Destroyed - Animals from pound.....	-
Destroyed - Animals brought in.....	+
Released/Returned to owner.....	- <u>2</u>
Total in Pound Month End - - - - -	- - - - - <u>3</u> - CATS

<u>Dead Animals</u>	
Marias Vet Clinic.....	<u>0</u>
Other (list where picked up):	<u>0</u>

<u>Vehicle Log</u>	
Gallons of Gas.....	17-00
Mileage - current month reading.....	<u>88890</u>
Mileage - previous month reading.....	<u>88740</u>
Total Mileage.....	<u>150</u>

<u>Warnings and/or Citations</u>	
Verbal Warnings.....	<u>6</u>
Written Warnings.....	<u>0</u>
Citations Issued.....	<u>0</u>

<u>Licenses Issued</u>	
Month.....	<u>9</u>
Year to Date.....	<u>332 + (63 cos)</u>


Animal Control Officer

cc: City Superintendent
City Council (deliver to City Hall 1st of month)
Animal Control file