

Class I Cultural Resource Inventory for the Williston Basin System Pipeline, McKenzie and Williams Counties, North Dakota.

**By
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**Prepared for:
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Mandan, ND**

**On Behalf of:
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August, 2010

MANUSCRIPT DATA RECORD FORM

1. Manuscript Number:
2. SHPO Reference # :
3. Author(s) (List all authors names as they appear on the report title page):
Gwen Jakel and Christina Burns
4. Title (Complete title as it appears on the report title page):

**Class I Cultural Resource Inventory for the Williston Basin System,
McKenzie and Williams County, North Dakota.**
5. Report Date (As it appears on the report title page): **August, 2010**
6. Number of Pages (Including front matter, references cited and appendices): **8**
7. Type - I= Inventory (Class 3 CRI), T=Test, E=Excavation, O=Other: **Type – I**
8. Acres - Class 3 inventory only; project description specified only in the report:
NA
9. Legal Location(s)(no quarter sections) with Historic Context Study Unit(s):
Consult township tables in The North Dakota Comprehensive Plan for Historic
Preservation: Archeological Component, (SHSND 1990) for Study Unit
assignments.
Study Units: LM, CB, KN, HE, SM, GA, JA, GR, NR, SR, SO, SH, YE

<u>COUNTY</u>	<u>TWP</u>	<u>R</u>	<u>SEC</u>	<u>S U</u>
McKenzie	152	104	32-36	YE
	151	103	1-4	
	151	102	6	
	152	103	29-33	GA
Williams	152	103	6, 7, 18-20	GA

1.0 Introduction

Keitu Engineers, on behalf of Hiland Partners, L.P. contracted Beaver Creek Archaeology, Inc. (BCA) to perform a Class I Cultural Resource Inventory (Literature Review/File search) for a proposed 19.5 mile long pipeline in McKenzie and Williams Counties. The Area of Potential Effect (APE) is located in the Yellowstone River (#13) and Garrison (#6) Study Units, southeast of the city of Williston, North Dakota.

The file search was conducted at the North Dakota State Historic Preservation Office (NDSHPO) on August 16, 2010. There were a total of 26 manuscripts, ten sites, four isolated finds, two site leads and five architectural sites within a one mile radius of the APE. The following table shows the legal locations of the proposed pipeline:

Location		
Twp	R	S
152	104	32, 33, 34, 35, 36
152	103	6, 7, 18, 19, 20, 29, 30, 31, 32, 33
151	103	1, 2, 3, 4
151	102	6

A one mile radius surrounding the pipeline corridor was searched for previously recorded sites for the Class I inventory. This report contains information about currently recorded Historic and Pre-historic sites and the potential for such sites within the APE.

2.0 Project Goal

The goal of the Class I Cultural Resource Inventory is to provide Hiland Partners, L.C. with knowledge of the Cultural Resources and the potential for Cultural Resources within the project APE. This knowledge can aid in future planning and avoiding such resources.

3.0 Environmental

The majority of the proposed Williston System Basin Pipeline is located within cultivated fields and range land. It is located within the Yellowstone River Archaeological Study Unit (YRSU, #13) and the Garrison Study Unit (GSU, #6) as found in the *Archaeological Component of the North Dakota Comprehensive Plan for Historic Preservation*.

Mixed grass prairie is the predominant ecosystem in the YRSU and GSU (Gregg et. al 2008). In the YRSU, Rocky Mountain juniper, hawthorne and buffaloberry

grow in the drainages and draws, while bur oak, green ash and juniper grow along hardwood draws in the GSU (Greg et. al 2008).

These habitats would have provided ample food and cover for a number of animals such as bison, deer, elk, prairie dog, wolf, and other fur-bearing animals. There was also an abundance of a variety of species of fish and mussels in the river systems (Gregg et. al 2008). The variety of plant and animal species within the YRSU and GSU would have provided ample hunting and gathering opportunities for the various peoples that populated North Dakota throughout its history.

4.0 Result

A literature review was performed at the NDSHPO on August 16, 2010. The search revealed ten sites, four isolated finds, two site leads and five architectural sites within a one mile radius of the APE. Twenty-six previous Cultural Resource Inventories have been performed within the sections of the APE.

Table 1: Manuscripts on File at the Archaeology and Historic Preservation Division, State Historical Society of North Dakota in or near the APE.

Year	MS #	Author	Location			Title
			Twp	R	S	
1951	000109	Mattison, R	152	104	32	Report on Historical Aspects of the Garrison Reservoir Area, Missouri River
1978	000299	Loendorf, L	151	103	2	Preliminary Report on the Archaeological Investigations of the 110 Site Locations, Little Missouri Grasslands, Custer National Forest, Western North Dakota
1980	001475	Roberson, W	152	103	29	Archaeological Test Excavations at the Mondrian Tree Site (32MZ58) McKenzie County, ND
1981	002564	Root, M	152	103	29, 32	Archaeological Site Survey and Testing Along the Northern Border Pipeline, North Dakota: Annual Progress Report 1980, McKenzie, Mercer, Dunn, Stark, Morton, Emmons, McIntosh, and Williams Counties
1981	002565	Toom, D	152	103	29, 30	Archaeological Investigations at the Mondrian Tree Site (32MZ58), McKenzie County, North Dakota Annual Progress Report 1980
1981	2566	W. Robeson, et al	152	103	6	Northern Border Pipeline, North Dakota: Historic Sites Testing and Evaluation, Morton, Dunn, McKenzie and Williams Counties
1981	002588	Roberson, W	152	103	6	Northern Border Pipeline Historic Sites Testing Data, Morton, Dunn, McKenzie and Williams Counties, ND
1982	002706	Kleim, K	151	103	4	The Class III Cultural Resource Inventory for the Proposed MDU Fort Buford Compressor Station, McKenzie CO, ND

Class I Inventory, Williston System Basin Pipeline

Year	MS #	Author	Location			Title
			Twp	R	S	
1983	003454	Toom, D	152	103	30, 29	Archaeology of the Northern Border Pipeline, North Dakota: Vol., 1, Pts. 1-3 Archaeology of the Mondrian Tree Site 32MZ58.
1983	003455	Root, M	151	103	3, 4	Archaeology of the Northern Border Pipeline, North Dakota, Vol. 2 Pts 1-3 Survey and Background Information, McIntosh, Emmons, Morton, Stark, Mercer, Dunn, McKenzie and Williams County, ND
			152	103	32,33, 6, 30, 7,18, 19,20	
1983	003456	Root, M	152	103	32	Archeology of the Northern Border Pipeline, North Dakota: Vol. 3, Test Excavations, McIntosh, Emmons, Morton, Stark, Mercer, Dunn, McKenzie and Williams Co. ND
1985	003689	Floodman, M	152	103	20	Sun Exploration and Production Company Rider Federal State #1 Williams County, North Dakota
1985	003720	Floodman, M	152	103	20, 19	Sun Exploration and Production Company Gannaway Federal #1, Williams County, North Dakota
1984	003766	Metcalf, M	151	103	4, 3	Pipeline Survey for Energy Resource Transportation, Getty Oil Company's WESCO pipeline, McKenzie Co, ND
1991	005556	Olson, B	151	103	4	Cultural Resource Inventory of the Proposed McKenzie Gas Plant to fort Buford Compressor Station Northern Border Connection Pipeline, McKenzie County, ND
1991	005628	Olson, B	151	103	4	Koch Industries, Inc., AFE 39999 10-inch Natural Gas pipeline; Northern Border Connection Pipeline Reroute Cultural Resources Inventory McKenzie County, ND
1981	005743	Kuehn, D	152	103	6	Monitoring of Buford East/West Highway Project Williams County Highway Department Project Number CRS-5344 (51)
1995	006578	Borchert, J	152	103	6	Hwy 1804 from 4400' E of the Marley Crossing to the Montana Border, Williams Co., Class III Cultural Resource Inventory
2001	007829	Morrison, J	152	103	33	Lassey Gravel Pit: A Class III Cultural Resource Inventory, McKenzie County, ND
2005	009237	Stine, E et al	152	103	6	Plains Pipeline Trenton Loop: A Class III Cultural Resource Inventory in McKenzie and Williams Co., ND and Addendums B and C and D
2005	9286	D. Klinner	151	103	4	Fort Bufford Compressor Station and Pipe Storage Area for the Cabin Creek to Williston Pipeline Replacement Project: A Class III Cultural Resource Inventory, McKenzie County, ND
2005	009466	Klinner, D	151	103	4	Cabin Creek to Williston Pipeline Replacement: A Class III Cultural Resource Inventory, McKenzie Co, ND
			152	103	33	
2007	009991	Kinner, D	152	104	34	Druillard 1-33H Well Pads: A Class III Cultural Resource Inventory, McKenzie Co, ND

Year	MS #	Author	Location			Title
			Twp	R	S	
2007	009998	Kinner, D	152	104	34	Frazier 1-34h Well Pad: A Class III Cultural Resource Inventory, McKenzie Co, ND
2005	010128	Hufstetler, M	152	104	33	Historic Bridges in North Dakota 2004 Revision
2008	010381	Springer, K	152	104	35	05-053-012 Wetland Restoration Project, 2007 Addendum, Cultural Resources Inventory, McKenzie CO, ND

Table 2: Summary Information on Archaeological Sites Recorded near the APE.

SITS #	Location			Affiliation	Description	Recorder	NRHP Status
	Twp	R	S				
32MZ369	152	103	29 32	Unknown	CM Scatter, pit	M Volk	Unevaluated
32MZ559	152	103	32	Late prehistoric	CM Scatter,	M Volk	Unevaluated
32MZ561	152	103	29	Unknown	Stone Circle	C Kordecki	Unevaluated
32MZ566	152	103	29	historical	Tilp Homestead	Unknown	Unevaluated
32WI29	152	103	6	Historical	Leroy Homestead	P Jessen	Unevaluated
	153	103	34				
32MZ58	152	103	30 29	Unknown	CM Scatter multi component	Peterson	Eligible
32WI48	152	103	6	Historical	Marley School	Unknown	Unevaluated
32MZ1416	152	104	33	Historical	CM Scatter	Kordecki	Ineligible
32WI45	153	103	34	Historical	CM Scatter, Ceramics, Glass, Metal,	Unknown	Ineligible
32WI47	152	103	6	Historical	CM Scatter, Depression, Foundation, Bone, Ceramics, Metal	C, McKinney	Unevaluated
32MZ1843	152	104	35	Historical	CM Scatter, Dump, Machinery, Ceramics, Glass, Masonry. Metal, Plastic, Rubber, Wood	K. Springer	Ineligible

Table 3. Summary Information on Archaeological Site Leads near the APE.

SITS #	Location			Affiliation	Description	Recorder	NRHP Status
	Twp	R	S				
32MZx899	152	104	33	Unknown	Isolated Find	C, Kordecki	Unevaluated
32MZx994	151	103	4	prehistoric	Isolated Find	D. Klinner	Ineligible
32MZx120	152	104	32 33	Historic Fort	Site Lead	C. Kordecki	Unevaluated

SITS #	Location			Affiliation	Description	Recorder	NRHP Status
	Twp	R	S				
32WIx31	153	103	35	Marley Post Office	Site Lead	E. Benson	Unevaluated
32WIx346	153	103	34	Chipped Stone	Isolated Find	M. Hetland	Ineligible
32WIx347	153	103	34	Chipped Stone	Isolated Find	M. Hetland	Ineligible

Table 4: Summary Information on Architectural Sites near the APE

Location			Site Number	Recorder	NRHP Status
Twp	R	S			
151	103	3	32MZ546	Unknown	Unevaluated
152	104	33	32MZ1591 (Bridge)	R.T.I.	Ineligible
151	104	4			
152	104	27, 31-35			
151	104	3-6	32MZ1174 (Irrigation System)	D. Klinner	Eligible
152	103	5	32WI46 (Kerr Dam)	C. McKinney	Unevaluated
152	103	5	32WI483 (Trinity Lutheran Church)	V. Miller	Unevaluated

Sites 32MZ58 (CM Scatter), 32MZ369 (Cm Scatter and Pit), 32MZ1174 (irrigation canals) and 32MZ559 (CM Scatter) are within the project APE and are recorded as unevaluated/eligible for the National Register of Historic Places (NRHP). Therefore, these sites must be avoided by the proposed project.

Site 32MZ1591 (bridge) is within the project APE and is recorded as ineligible for the NRHP. The bridge is in active use.

Site Lead 32MZx120 (Military Fort) is within the project APE and is recorded as unevaluated for the NRHP. The exact location of the site lead cannot be determined as no detailed map of the site lead exists.

5.0 Recommendation

The proposed APE is located in McKenzie and Williams Counties, southeast of the city of Williston, North Dakota. The general area contains 18 previously recorded cultural resources.

Sites 32MZ58 (CM Scatter), 32MZ369 (Cm Scatter and Pit) and 32MZ559 (CM Scatter) are within the project APE. These sites are recorded as *unevaluated* for the NRHP and must be avoided. BCA recommends that the proposed pipeline be rerouted so that sites 32MZ58, 32MZ369 and 32MZ559 are at least 100 feet away from the project APE.

Portions of Site 32MZ1174 (irrigation canal) are within the project APE. Site 32MZ1174 is recorded as eligible for the NRHP and is in active use. BCA recommends that Hilands Partners, LP use mitigation methods, such as boring underneath the site, in areas where site avoidance is not possible. In areas where site avoidance is possible, the proposed pipeline should be rerouted so that Site 32MZ1174 is at least 100 feet away from the project APE.

Site 32MZ1591 (bridge) is within the project APE. The site is recorded as ineligible for the NRHP and therefore does not need to be avoided by the proposed project. However, the bridge is in active use, therefore, BCA recommends that Hiland Partners, LP use mitigation methods to limit impact to the site.

Site Lead 32MZx120 (military fort) is within the project APE. Site leads are defined by the NDSHPO as “*resources that lack sufficient information to fully record and complete all necessary data fields on the North Dakota Cultural Resources Survey (NDCRS) site forms*” (NDSHPO 2006: 18). The exact location of the site lead cannot be determined as no detailed map of the site lead exists. Features from this site lead could potentially lie within the project APE.

All other previously recorded cultural resources lie well outside of the project APE and will not be affected by the project undertaking.

Due to the number of known cultural resources within the project APE and the high probability of finding unknown cultural resources, BCA recommends a Class II and Class III Cultural Resource Inventory be completed within the project APE before work commences.

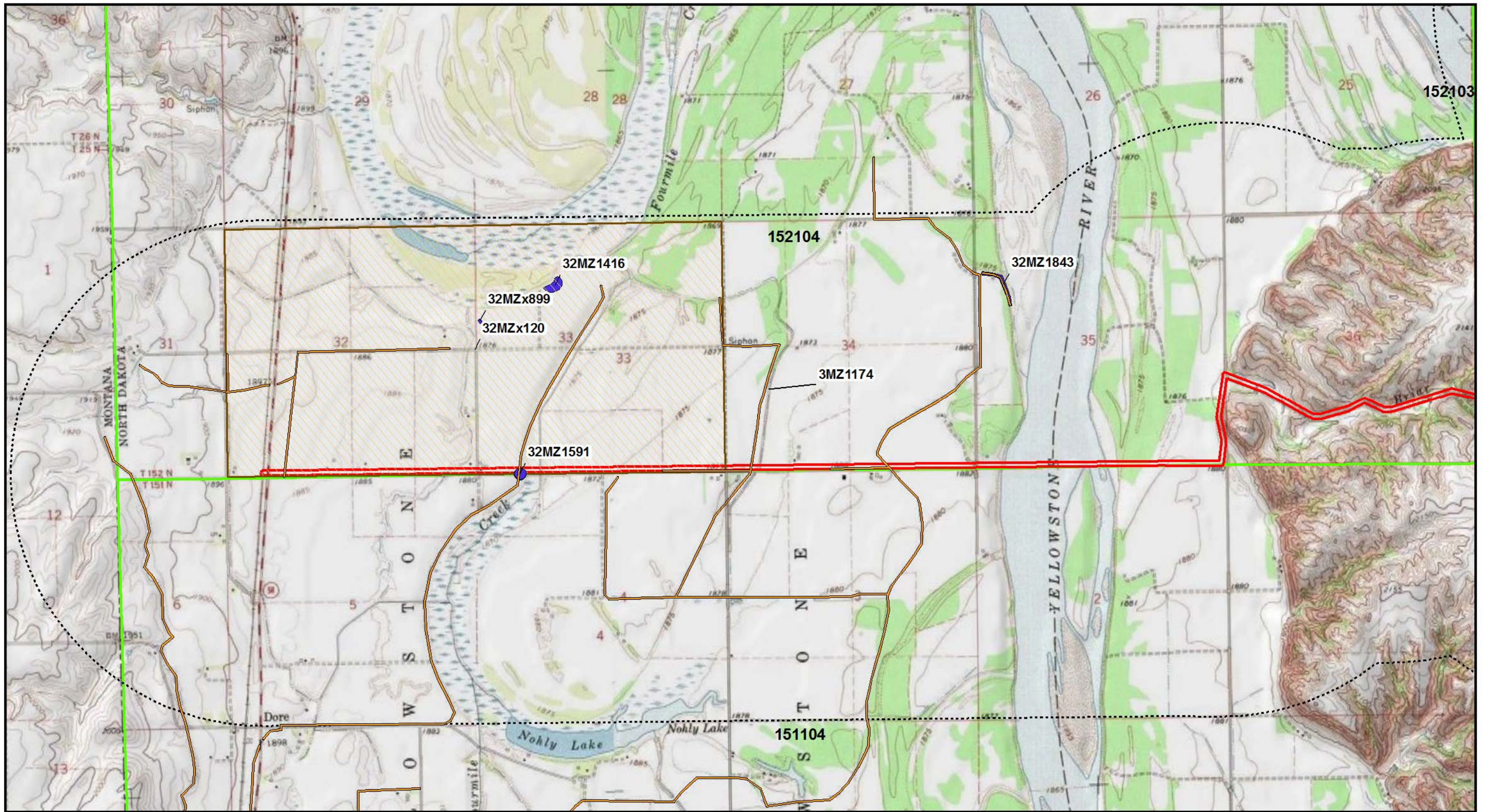
References

Gregg, Michael et. al.

2008 *North Dakota Comprehensive Plan for Historic Preservation: Archaeological Component*. Division of Archaeology and Historic Preservation, State Historical Society of North Dakota. Bismarck, North Dakota.

NDSHPO






2006 *North Dakota SHPO Guideline Manual for Cultural Resource Inventory Projects*. Division of Archaeology and Historic Preservation, State Historical Society of North Dakota. Bismarck, North Dakota.

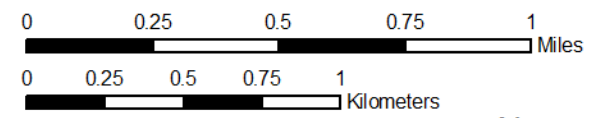


**Williston Basin System Pipeline
Map 1 of 4**

T1151N R104W Sec. 1-6
T152N R104W Sec. 25-36
Dore & Buford Quads
McKenzie Co., ND

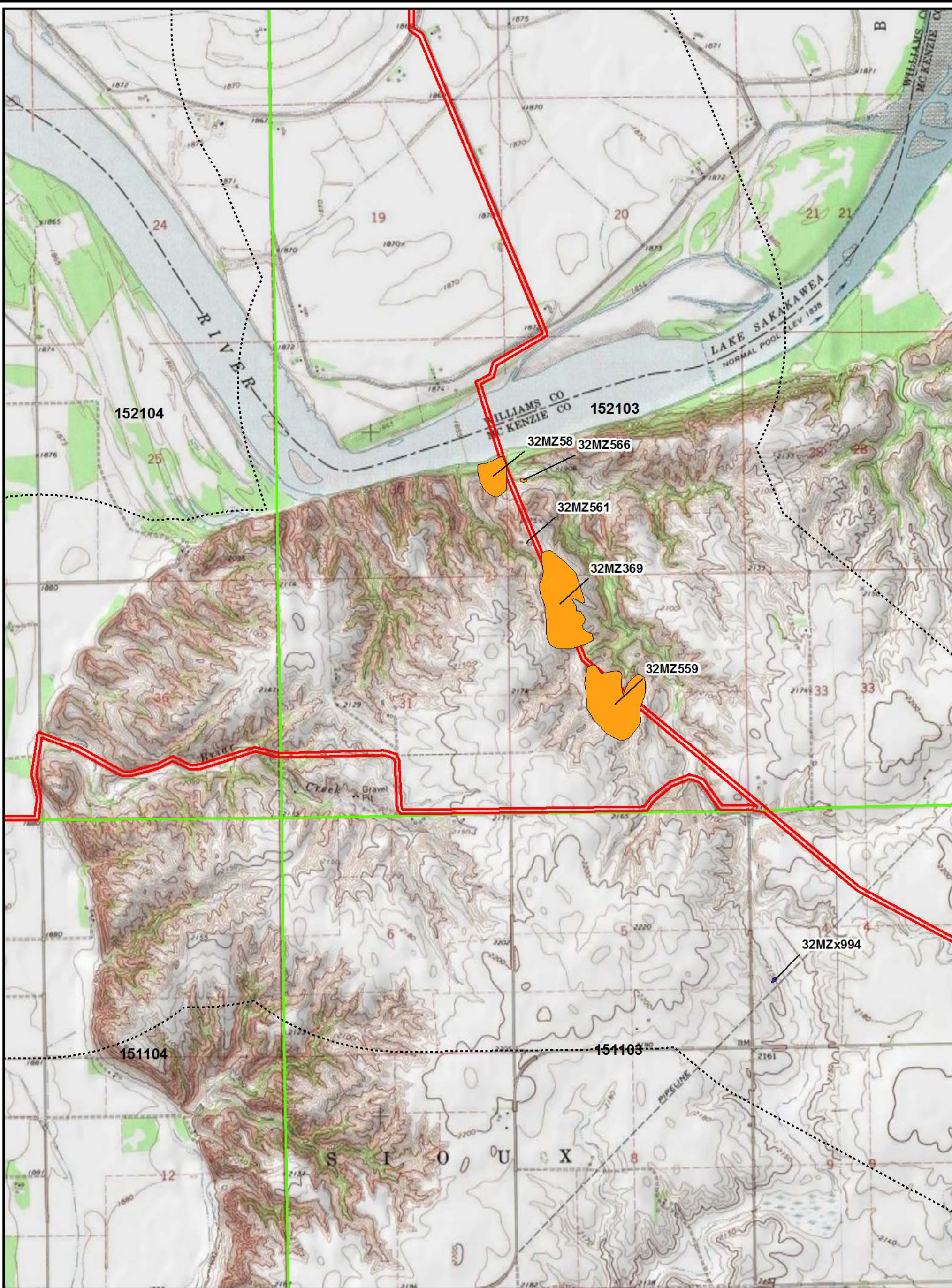
Legend

-  Pipeline Route
-  Class I Inventory Area
- Cultural Resources**
-  Eligible/Unevaluated Sites
-  Ineligible Sites
-  Site Leads



Base Map: USGS 7.5'
Scale: 1:24,000
UTM NAD83 Zone 13





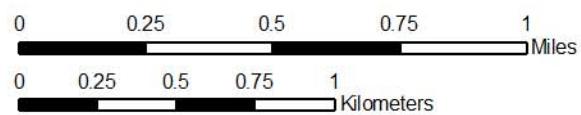


**Williston Basin System Pipeline
Map 2 of 4**

T152N R104W Sec 13; 24-25; 36
 T152N R103W Sec. 17-21; 28-33
 T151N R103W Sec. 4-6; 8-9
 T151N R104W Sec. 1
 Buford & Cartwright NE Quad Maps
 McKenzie and Williams Counties, ND

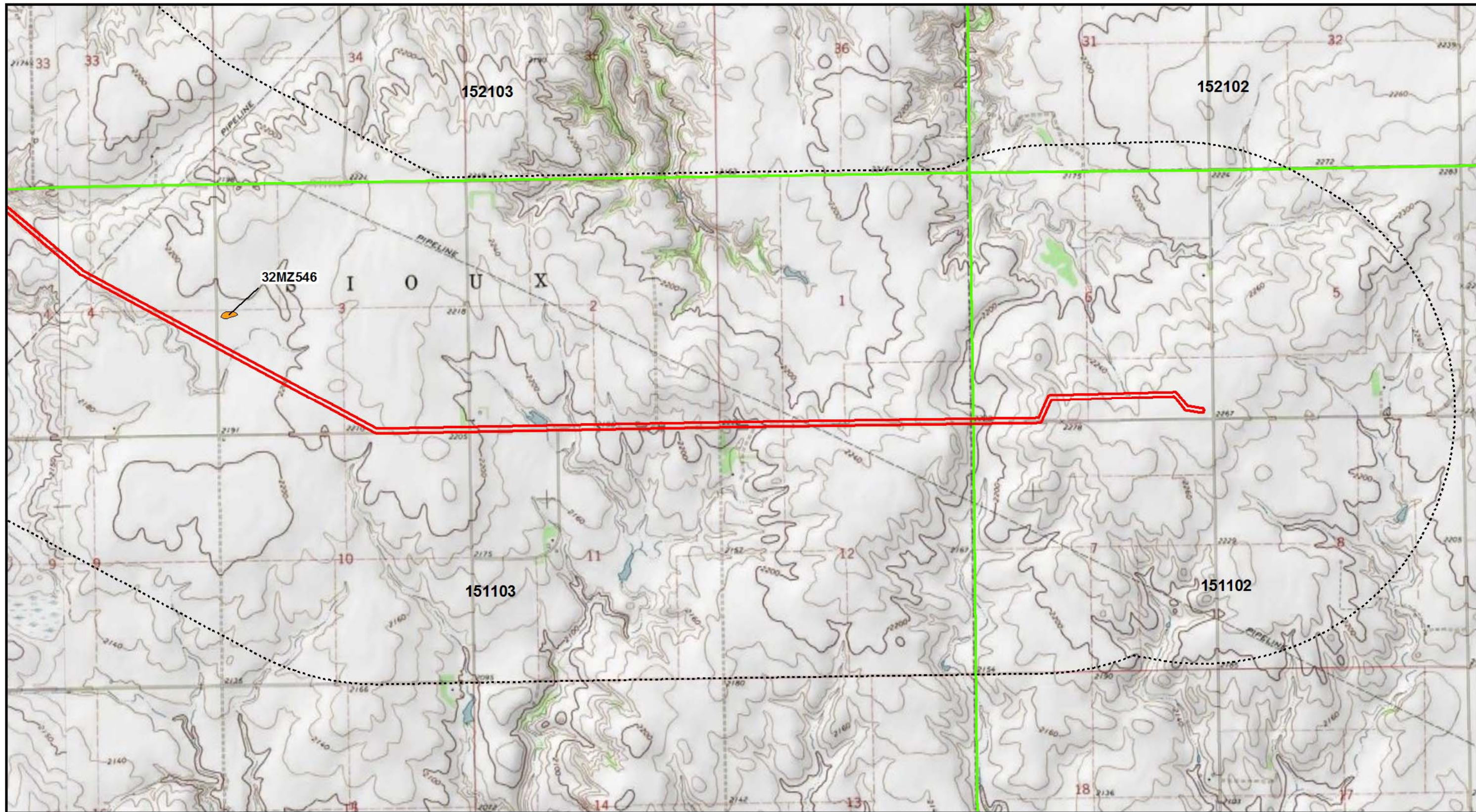
Legend

-  Class I Inventory Area
-  Eligible/Unevaluated Sites



Base Map: USGS 7.5'
 Scale: 1:24,000
 UTM NAD83 Zone 13

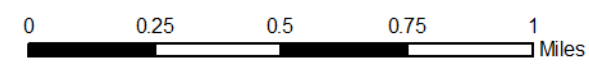




**Williston Basin System Pipeline
Map 3 of 4**

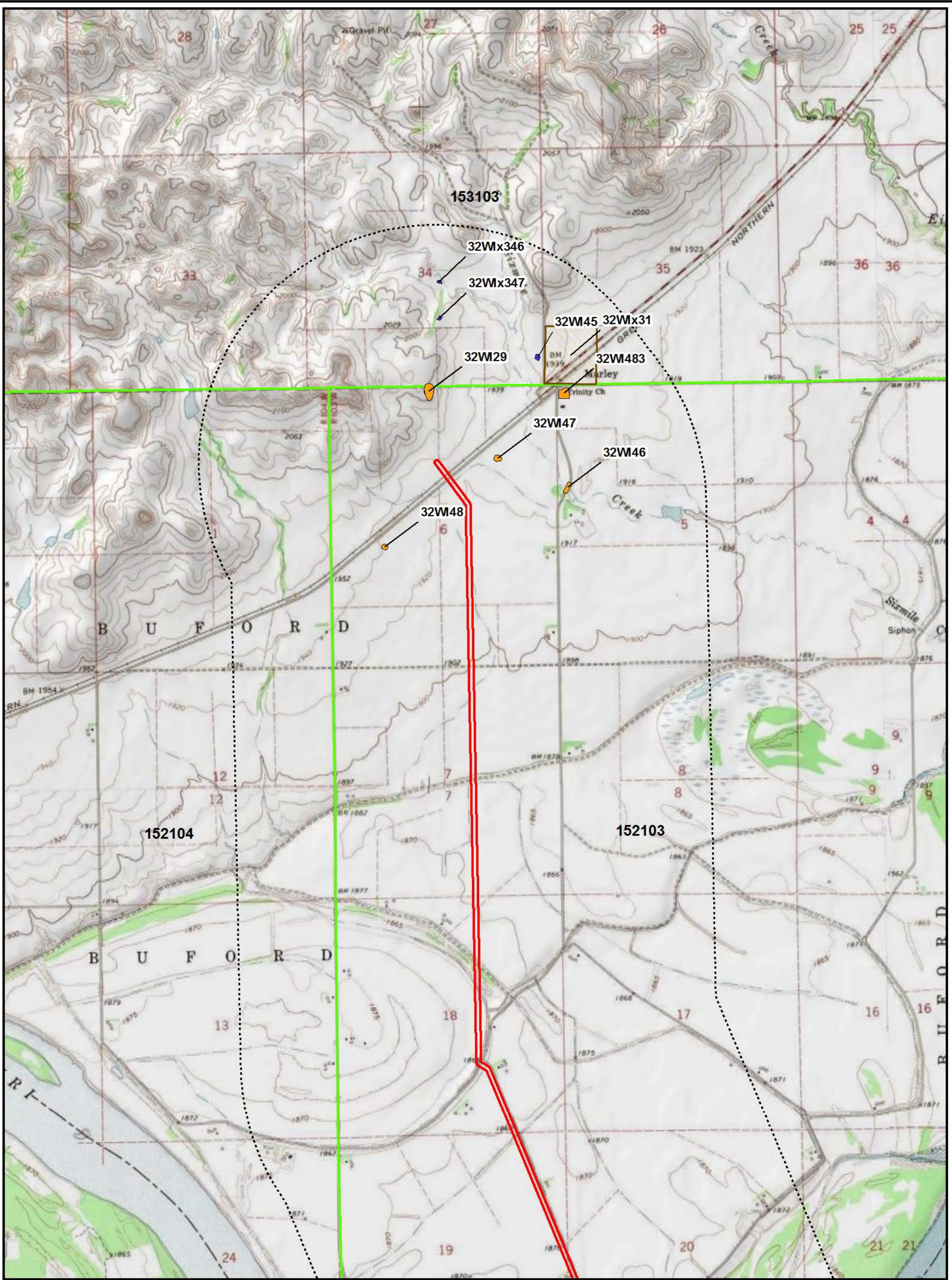
T152N R103W Sec. 33-36
 T151N R103W Sec. 1-4; 9-12
 T152N R102W Sec. 31-32
 T151N R102W Sec. 5-8
 Buford & Cartwright NE Quads
 McKenzie Co., ND

- Legend**
- Pipeline Route
 - Class I Inventory Area
 - Eligible/Unevaluated Sites



Base Map: USGS 7.5'
 Scale: 1:24,000
 UTM NAD83 Zone 13





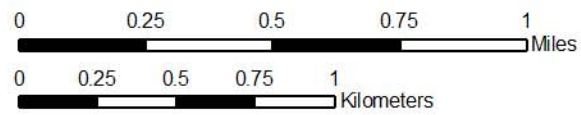


**Williston Basin System Pipeline
Map 4 of 4**

T152N R104W Sec 1; 12-13; 24
 T152N R103W Sec. 5-8; 17-21
 T153N R103W Sec. 33-35
 Buford & Trenton SW Quad Maps
 Williams County, ND

Legend

-  Class I Inventory Area
-  Eligible/Unevaluated Sites



Base Map: USGS 7.5'
 Scale: 1:24,000
 UTM NAD83 Zone 13

