

Highland Partners 8 Inch Natural Gas Pipeline:

A Class III Cultural Resource Inventory in McKenzie County, North Dakota

NDSHPO Reference #: 10-2081

**Prepared for: Highland Partners, LP.
Enid, Oklahoma**

Prepared by: Wade Burns and Gwen Jakel



**Beaver Creek Archaeology, Inc.
Mandan, North Dakota**

October, 2010

Manuscript Date Record Form

1. Manuscript Number:
2. SHPO Reference #:
3. Author(s) (List all authors names as they appear on the report title page): **Wade Burns and Gwen Jakel**
4. Title (Complete title as it appears on the report title page): **Highland Partners 8 Inch Natural Gas Pipeline: A Class III Cultural Resource Inventory in McKenzie County, North Dakota.**
5. Report Date (As is appears on the report title page): **October, 2010**
6. Number of Pages (Including front matter, references cited and appendices): **6**
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 report: **155**
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: Archaeological Component, (SHSND 1990) for Study Unit Assignments. Study Units: LM, CB, KN, HE, SM, GA, JA, GR, NR, SR, SO, SH, YE

COUNTY	TWP	R	SEC	SU
McKenzie	151	103	1, 2, 3 & 4	YE
	151	102	6	

Inventory Report

Submitted by Beaver Creek Archaeology, Inc.
301 1st Street NE Suite 201 Mandan, North Dakota 58554
Phone: (701) 663-5589; e-mail: info@bcarch.org

Report Title: Highland Partners 8 Inch Natural Gas Pipeline: A Class III Cultural Resource Inventory in McKenzie County, North Dakota.

NDSHPO Reference #: 10-2081

Author: Wade Burns and Gwen Jakel

Report Date: October, 2010

Acreage: 155

Land Status: Private Land

Survey Date: September 9, 10 and 29, 2010

Project Sponsor: Highland Partners, LP.

Historic Context: Yellowstone River Study Unit (#13)

Legal Description/Location of Project Area: The proposed project is located in Sections 1, 2, 3, and 4 in T151N R103W, and in Section 6, T151N R102W, McKenzie County, North Dakota as depicted on the Buford and Cartwright NE USGS 7.5' quadrangle maps. The proposed project is located on private property.

Description of Proposed Project: The proposed project consists of the construction of an 8 inch Natural Gas Pipeline for Highland Partners, LP.. The Area of Potential Effect (APE) consists of a 250ft wide, 5.1 mile long pipeline (155 acres). Beaver Creek Archaeology inventoried a total of 155 acres for cultural resources.

Result of File Search: Gwen Jakel conducted a literature search at the North Dakota State Historic Preservation Office (NDSHPO) on August 30, 2010. The search revealed two sites, three isolated finds within a one mile radius and eight manuscripts on file within Section(s) 1, 2, 3, 4 and 6 of the APE (see tables).

Inventory Report

Submitted by Beaver Creek Archaeology, Inc.
301 1st Street NE Suite 201 Mandan, North Dakota 58554
Phone: (701) 663-5589; e-mail: info@bcarch.org

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	
2005	9466	D. Klinner	151	103	4	Cabin Creek to Williston Pipeline Replacement: a Class III Cultural Resource Inventory, McKenzie County, ND
1983	3455	M. Root, et al	151	103	3, 4	Archaeology of the Northern Border Pipeline, North Dakota: Vol. 2, Pts. 103 Survey and Background Information, McIntosh, Emmons, Morton, Stark, Mercer, Dunn, McKenzie & Williams Counties, ND
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
1991	5628	B. Olson	151	103	4	Koch Industries, Inc. AFE 39999 10-inch Natural Gas Pipeline; Northern Border Connection Pipeline Reroute Cultural resources Inventory McKenzie County, ND
1991	5556	B. Olson	151	103	4	Cultural resource Inventory of the Proposed McKenzie Gas Plant to Fort Bufford Compressor Station Northern Border Connection Pipeline McKenzie County, ND
1984	3766	M. Metcalf	151	103	3, 4	Pipeline Survey for Energy Resource Transportation, Getty Oil Company's WESCO Pipeline, McKenzie County, ND
1982	2706	K. Keim, et al	151	103	4	The Class III Cultural resource Inventory for the Proposed MDU Fort Buford Compressor Station, McKenzie County, ND
1978	299	L. Loendorf	151	103	2	Preliminary Report on the Archaeological Investigations of 110 Site Locations, Little Missouri Grasslands, Custer National Forest, Western North Dakota

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

SITS #	Location			Affiliation	Description	Recorder	NRHP Status
	Twp	R	S				
32MZ559	152	103	32	Late Prehistoric	CM Scatter, Faunal Remains, Fire Cracked Rock, Projectile Point, Chipped Stone, Ground Stone	M. Volk	Unevaluated
32MZx997	152	103	34	Unknown	Isolated Find, Chipped Stone	S. Heiner, et al	Ineligible
32MZx998	152	103	34	Historical	Isolated Find, Glass	S. Heiner, et al	Ineligible

Inventory Report

Submitted by Beaver Creek Archaeology, Inc.
301 1st Street NE Suite 201 Mandan, North Dakota 58554
Phone: (701) 663-5589; e-mail: info@bcarch.org

SITS #	Location			Affiliation	Description	Recorder	NRHP Status
	Twp	R	S				
32MZ546	151	103	3	Historical	Architectural	Unknown	Unevaluated
32MZx994	151	103	4	Unknown	Isolated Find, Chipped Stone	D. Klinner	Ineligible

Field Personnel: Wade Burns (PI) and Tom Messerli, Paula Pflepsen, Staff Archaeologists.

Field Methods: The proposed project area was inventoried on September 9, 10 and 29, 2010 by Beaver Creek Archaeology. Weather conditions were fair with overcast skies and approximately 50 °F. The proposed pipeline was inventoried by the archaeologist(s) walking parallel pedestrian transects 20 meters apart to cover the 5.1 mile long, 250ft wide corridor (155 acres). During the survey, field notes and overview pictures were taken.

The APE is located within the Yellowstone River Study Unit (#13) as found in the *North Dakota Comprehensive Plan for Historic Preservation: Archaeological Component*. The proposed pipeline is located within plowed agricultural fields and range land. Vegetation in the area consists of native and non-native grasses, plants and forbes in the unplowed portions and various harvested crops in the plowed portions. Ground Surface Visibility (GSV) ranged between 40-80 % on average. Areas of higher visibility, such as erosion features, areas of sparse vegetation and rodent burrows were closely examined for cultural material.

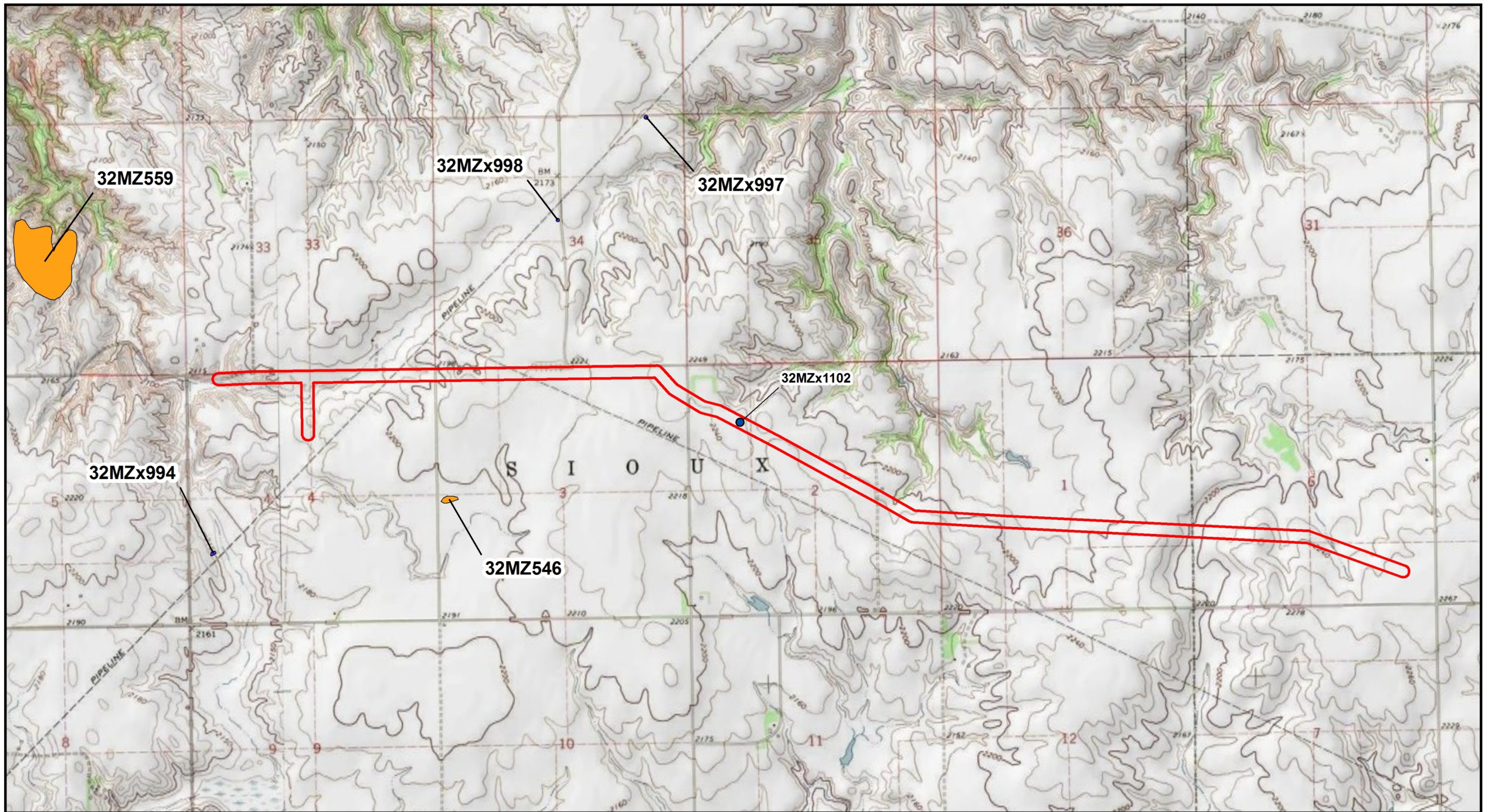
Results and Recommendations: The investigation of the APE revealed one new cultural resource. Isolated Find 32MZx1102 consists of a single Knife River Flint (KRF) scraper. The isolated find is not eligible for the National Register of Historic Places (NRHP), so no avoidance is necessary. All previously recorded sites are situated well away from the project area and will not be impacted. Consequently, *No Significant Historic Properties Affected* is recommended and therefore, no further archaeological investigation is needed for the APE as mapped, photographed and described herein.



Figure 1: Overview of the APE. View to the East.



Figure 2: Overview of the APE. View to the West.



Highland Partner Pipeline

T151N R102W Sec. 6
 T151N R103W Sec. 1-4
 Buford & Cartwright NE Quads
 McKenzie Co., ND

Legend

- Pipeline Route
- Management Recommendation**
- Eligible/Unevaluated
- Ineligible



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

