

## MANUSCRIPT DATA RECORD FORM

1. Manuscript Number:
2. SHPO Reference #:
3. Author(s): Diana M. Barg
4. Title: Apex TITAN, Inc.'s Targa Keene to Charlson Pipeline: A Class III Cultural Resource Inventory in McKenzie County, North Dakota
5. Report Date: June 2015
6. Number of Pages: 14
7. Type: I
8. Acres: 2.04 Acres
9. Legal Location(s):

County	TWP	R	SEC	SU
McKenzie	152N	95W	7, 18, 31	GA
McKenzie	151N	95W	7	GA



## Small Survey Report

Submitted by Metcalf Archaeological Consultants, Inc.  
PO Box 2154, Bismarck, North Dakota 58502  
Phone: (701) 258-1215, Email: macnodak@metcalfarchaeology.com

1. **Report Title:** Apex TITAN, Inc.'s Targa Keene to Charlson Pipeline: A Class III Cultural Resource Inventory in McKenzie County, North Dakota
2. **Cultural Resource Permit Number/ NDSHPO Project #:**
3. **Author:** Diana M. Barg
4. **Report Date:** November 2014

5. **Description of Undertaking:**

Apex TITAN, Inc. (Apex) proposes to construct a 7.5-mile-long north-south running stretch of pipeline for the Targa Antelope to Keene Pipeline Project. The project is located north and south of Highway 23, west of Highway 1806, and east of the community of Keene in McKenzie County, North Dakota. Metcalf Archaeological Consultants, Inc. (Metcalf) was contracted by Apex to facilitate compliance with the National Historic Preservation Act (NHPA) and to identify potentially eligible cultural resources for this project. As the lead federal agency, the U.S. Army Corps of Engineers (USACE) has oversight for compliance with the NHPA, Public Law 89-665, as amended, and its implementing regulations, 36CFR Part 800.

The compliance effort allows Apex and the USACE to take into account the effects of its proposed undertakings on cultural resources and to consult with the State Historic Preservation Officer (SHPO) and interested tribes. This identification effort ensures that (1) the area of potential effects [APE] is defined, (2) cultural resources within the APE are identified, (3) a recommendation of significance for identified cultural resources is determined as appropriate, and (4) the effects of the proposed undertaking on cultural resources is assessed. The APE is defined as the stream crossings along the project corridor where the pipeline will be placed.

Metcalf conducted a Class III cultural resource inventory of the stream crossings along the APE from October 15, 2014 to October 16, 2014. Metcalf field personnel included Project Director Diana Barg and Field Technician Lynsee Langsdon. Each survey block within the APE measured 75 feet (ft) by 100 ft (7500 ft<sup>2</sup> or 0.17 acres) on each side of each stream crossing. Six stream crossings were surveyed for a total of 12 survey blocks and a total inventory area of 2.04 acres. All stream crossings encountered along the route were surveyed; the survey was conducted prior to the jurisdictional directive regarding which specific stream crossings fell under federal oversight. No cultural resources (i.e., sites, buildings, structures, objects, or districts that are at least 50 years in age) were identified within the surveyed portion of the APE.



# Small Survey Report

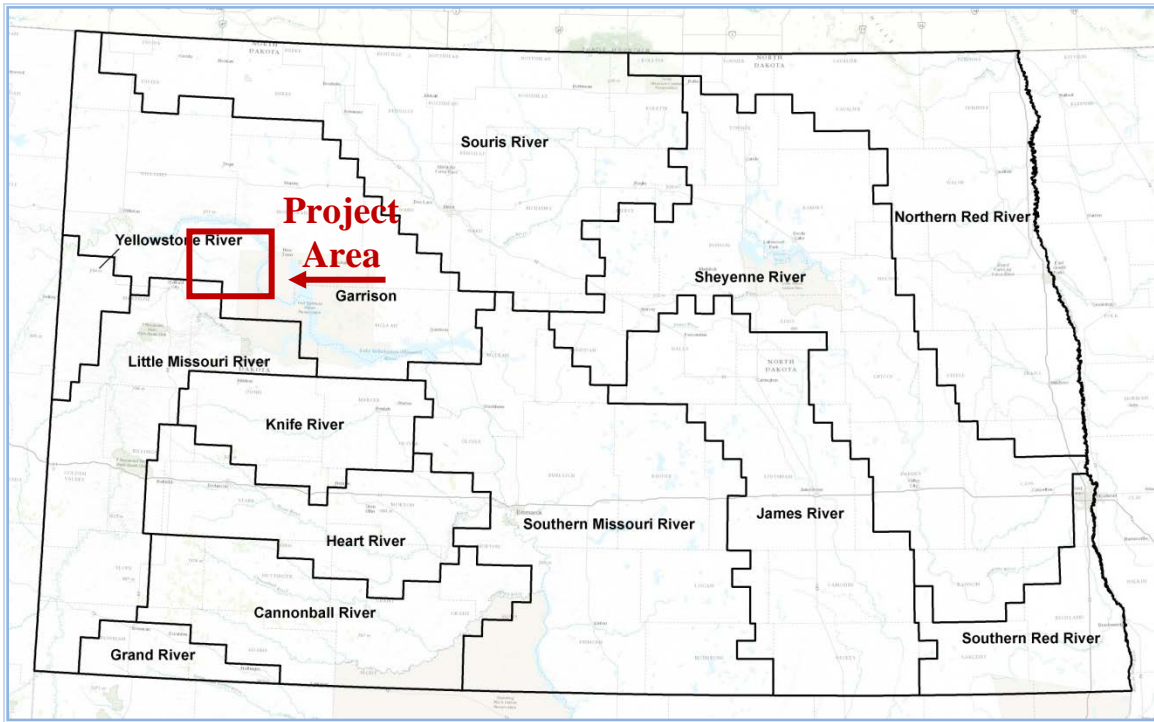
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## 6. Legal Location of Undertaking Area of Potential Effects (APE):

The undertaking's APE is located in McKenzie County, North Dakota. The project's general location is displayed in Figure 1 and depicted on the relevant portions of the USGS 7.5' Charlson SW (1965) and Keene (1997) quadrangle maps (Map 1). The legal locations of the project area are listed in Table 1.



**Figure 1:** The general location of the project area depicted on a map of North Dakota.

<b>Table 1: Legal Locations—Apex—Targa Keene to Charlson</b>			
<b>County</b>	<b>TWP</b>	<b>R</b>	<b>SEC</b>
McKenzie	152N	95W	7, 18, 31
McKenzie	151N	95W	7



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7. **Acreage:** 2.04 Acres
8. **Project Sponsor:** Apex TITAN, Inc., Austin, Texas

### 9. **Records Search Results**

On October 9, 2014, prior to the Class III inventory, Metcalf staff Erica Scherr conducted a review of the site and manuscript files at the State Historical Society of North Dakota (SHSND). The objective was to determine if any cultural resources have been recorded or if any cultural resource inventories have been conducted within the APE and a one-mile radius. The results of the review are summarized and presented in Tables 2 and 3.

The site files search revealed 63 cultural resources recorded in the search area: 49 precontact (prehistoric/archaeological) sites, 12 postcontact (historic) sites, and 2 multicomponent (precontact/postcontact) sites. The precontact sites include 11 stone feature sites, 14 precontact sites, 1 site lead, and 23 isolated finds. The postcontact sites include 3 architectural sites, 6 postcontact sites, and 3 postcontact site leads.

There are 8 cultural resources located within 0.25 mile of the proposed APE. These resources include 6 precontact isolated finds, 1 precontact cultural materials scatter, and 1 multicomponent site consisting of precontact and postcontact cultural materials scatters, stone features, and depressions. Isolated finds are considered *not eligible* for inclusion on the National Register of Historic Places (NRHP) and no avoidance is recommended. The precontact site, 32MZ788, is located adjacent to a stream crossing but is removed from the survey area by nearly 50 ft and lies mainly on the north side of the road, while the stream crossing is on the south side of the road. The site was recommended *not eligible* for inclusion in the NRHP and would not need to be avoided. Multicomponent site 32MZ786 is uphill and north of a stream crossing but lies outside of the surveyed area. The site was recommended *not eligible* for inclusion in the NRHP, and avoidance is not necessary.

The manuscript files search revealed that 37 cultural resources inventories have been conducted in the search area. The projects include 9 inventories for oil and gas development, 3 inventories for road improvements, 2 surveys for water pipelines, 19 surveys for oil and gas pipelines, 1 seismic survey, 1 electric survey, 1 survey for a 69 KV transmission line, and 1 survey for construction of an office building.

Two sites, 32MZ788 (cultural material scatter) and 32MZx300 (chipped stone), are located within or directly adjacent to the surveyed portion of the APE. One survey, a pipeline project, crosses the APE.



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<b>Table 2: Site Files Search Results—Apex—Targa Keene to Charlson</b>				
<b>T/R-Section</b>	<b>SITS #</b>	<b>Site Type &amp; Description</b>	<b>Recorder, Date</b>	<b>MS #</b>
	No Sites			4734, 11710, 15265
	32MZ0787	Archaeological-cultural material scatter-chipped stone	Scott, 1985; Kinsey, 2011	4319, 11710, 11790, 12001, 13002
	32MZ2043	Archaeological-cairn	Morrison, 2009	
	32MZ2265	Archaeological-cultural material scatter-chipped stone	Kinsey, 2011	
	32MZx0299	Archaeological-isolated find: chipped stone	Medsker, 1985	
	32MZ0695	Historic-machinery, depression, foundation, chimney, cultural material scatter- glass, metal, masonry, wood, ceramics	Floodman/ Friedman, 1983	3313, 4319, 11710, 11790, 13002
	32MZ2267	Historic-cultural material scatter-ceramics, glass, hide/hair/fur (leather shoe), metal, coal, graphite road	Kinsey, 2011	
	32MZ0567	Archaeological-cultural material scatter-chipped stone	Nathan, 1981; Floodman, 1998; Meidinger, 2003	2134, 2792, 2807, 2814, 4106, 4734, 4776, 5533, 5627, 5656, 6514, 8657, 10941, 10944
	32MZ0568	Archaeological-cultural material scatter-chipped stone (no cultural material found-1998)	Nathan, 1981; Floodman, 1998	
	32MZ0644	Archaeological-stone circle, cairn	Floodman, 1982; Floodman, 1998; Meidinger, 2003	
	32MZ0665	Archaeological-stone circle	Floodman, 1983; Floodman, 1998	
	32MZ1007	Archaeological-cairn, cultural material scatter- projectile point	Floodman, 1989; Floodman, 1998	
	32MZ1008	Archaeological-stone circle	Floodman, 1989; Floodman, 1998	
	32MZ1239	Archaeological-cairn	Klinner, 1995; Floodman, 1998	
	32MZ1613	Multicomponent site: Archaeological-stone circle, Historic-depression, foundation	Floodman, 2003	
	32MZx0692	Archaeological-isolated find: chipped stone	Flanigan/Nathan, 1981	
	32MZ1614	Archaeological-cairn, cultural material scatter- chipped stone	Floodman, 2004	8657, 10609
	32MZ1615	Archaeological-stone circle	Floodman, 2004	
	32MZ0695	Historic-machinery, depression, foundation, chimney, cultural material scatter- glass, metal, masonry, wood, ceramics	Floodman/Friedman, 1983	4319, 11710, 11790, 13002, 14084
	32MZx0298	Archaeological-isolated find: chipped stone	Medsker, 1985	
	32MZ2751	Archaeological-cairn, cultural material scatter- chipped stone	Kulevsky/Salas, 2014	7144, 7569, 11790, 11791, 13099
	32MZx0697	Archaeological-isolated find: chipped stone	Olson/Vavra, 1996	



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<b>T/R-Section</b>	<b>SITS #</b>	<b>Site Type &amp; Description</b>	<b>Recorder, Date</b>	<b>MS #</b>
[REDACTED]	32MZ2718	Historic-foundation, depression, cultural material scatter- glass, masonry, metal, plastic, wood	Kulevsky/Cecil, 2014	7144, 7569, 11790, 11791, 13099
	32MZx0698	Archaeological-isolated find: chipped stone	Olson/Vavra, 1996	
[REDACTED]	32MZx0097	Historic-site lead: Berg Post office, foundation, depression, cultural material scatter	Benson, 1980	3313, 11710, 11791, 13099
[REDACTED]	32MZx1357	Archaeological-isolated find: chipped stone	Bluemle, 2013	4898, 11710, 14852
[REDACTED]	32MZ0710	Archaeological-cultural material scatter-chipped stone	Larson, 1984	3484, 4319, 5749, 11710, 11790, 13002, 14852, 15182
	32MZ0711	Architectural-windmill	Larson, 1984	
	32MZ0788	Archaeological-cultural material scatter-chipped stone	Scott, 1985; Kinsey, 2011	
	32MZ0796	Archaeological-cultural material scatter-projectile point, chipped stone, ground stone (no features identified on surface-2014)	Scott, 1985; Asbury, 2013; Moret-Ferguson, 2014	
	32MZ2266	Archaeological-cultural material scatter-faunal remains, fire cracked rock, projectile point, chipped stone	Kinsey, 2011	
	32MZx0296	Archaeological-isolated find: chipped stone	Medsker, 1985	
	32MZx1348	Archaeological-isolated find: chipped stone	Zuccotti, 2013	
	32MZx1349	Archaeological-isolated find: chipped stone	Zuccotti, 2013	
[REDACTED]	32MZ0785	Archaeological-cultural material scatter-chipped stone	Billman, 1985	3484, 4319, 5748, 5749, 11685, 11710, 11790, 13002, 14852, 15182
	32MZ2082	Architectural-farmstead	Klinner, 2010	
	32MZ2616	Architectural-the Hawkeye School	Bluemle/Meade, 2013	
	32MZx1172	Archaeological-isolated find: chipped stone	Kinsey, 2011	
[REDACTED]	32MZx0111	Historic-site lead: Kinsley Post Office	Benson, 1980	11710, 14852
	No Sites			11710, 14852
[REDACTED]	32MZ2617	Historic-Former Quonset hut from 1950s, foundation, cultural material scatter-glass, masonry, metal, rubber, wood	Bluemle/Meade, 2013	3484, 4319, 11710, 11790, 13002, 14852, 15182
	32MZx0295	Archaeological-isolated find: chipped stone	Medsker, 1985	
	32MZx0297	Archaeological-isolated find: ground stone	Medsker, 1985	
[REDACTED]	No Sites			4319, 11710, 11790, 13002, 15182
[REDACTED]	32MZ2040	Archaeological-stone circle, possible effigy	Morrison, 2009	11710
	32MZ2038	Archaeological-stone circle	Morrison, 2009	11710
	32MZ2039	Archaeological-triangular stone alignment (site destroyed-2013)	Morrison, 2009; Glaab, 2013	



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<b>T/R-Section</b>	<b>SITS #</b>	<b>Site Type &amp; Description</b>	<b>Recorder, Date</b>	<b>MS #</b>
	32MZ2041	Archaeological-stone circle, possible effigy	Morrison, 2009	
	32MZx0887	Archaeological-isolated find: chipped stone	Morrison, 2009	
	32MZ0786 (same as 32MZ0795)	Multicomponent site: Archaeological-possible cairn, stone circle, cultural material scatter- projectile point, fire cracked rock, chipped stone, Historic-depression, foundation, cultural material scatter- ceramics, glass, metal, worked wood, masonry	Billman, 1985; Schweigert/ Halvorson, 1985; Kinsey, 2011	4319, 11710, 11790, 13002
	32MZx0300	Archaeological-isolated find: chipped stone	Medsker, 1985	4319, 11790, 12832, 13002
	32MZx1169	Archaeological-isolated find: projectile point	Kinsey, 2011	
	32MZx1170	Archaeological-isolated find: projectile point	Kinsey, 2011	
	32MZx1171	Archaeological-isolated find: chipped stone	Kinsey, 2011	
	No Sites			11710
	32MZx1421	Archaeological-isolated find: chipped stone	Kulevsky/ Evilsizer, 2014	1736, 3484, 11710, 13099, 15182
	32MZx0337	Historic-site lead: original Keene Townsite	Benson, 1980	1736, 5749, 13099
	No Sites			1736, 5748, 5749, 13099
	32MZx1422	Archaeological-isolated find: cultural material scatter- projectile point, chipped stone	Kulevsky, 2014	1736, 7144, 11710, 11791, 13099, 15182, 15304
	32MZ1350	Archaeological-cairn	Olson, 1997	7144, 11791, 13099
	32MZx0699	Archaeological-isolated find: chipped stone	Olson/Vavra, 1996	7144, 11791, 13099
	32MZx0700	Archaeological-site lead: stone circle	Olson, 1996	
	32MZ0712	Archaeological-cultural material scatter- projectile point, chipped stone	Larson, 1984; Cox/Picka/ Yost, 2013; Kulevsky, 2014	1736, 3484, 7144, 11710, 13099, 15182
	32MZ1532	Historic-First Lutheran Church and Cemetery	Bentley, 1999	
	32MZx1381	Archaeological-isolated find: projectile point	Cox/Picka/ McCarty, 2013	
	32MZx1428	Archaeological-isolated find: chipped stone	Green/Rodgers, 2014	
	32MZ0773	Archaeological-cultural material scatter- projectile point, chipped stone	Larson, 1985; Asbury, 2013; Collister, 2014	1736, 4319, 5749, 11710, 11790, 13002, 14852, 15182
	32MZ2670	Historic-dump, cultural material scatter- ceramics, glass, masonry, metal, plastic, rubber, wood	Wandler/ McCarty, 2013	
	32MZx0302	Archaeological-isolated find: chipped stone	Medsker, 1985	
	No Sites			1736, 4898, 11710, 14852



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<b>Table 3: Manuscript Files Search Results—Apex—Targa Keene to Charlson</b>	
MS #	Reference
1736	Loendorf, L. 1980 Evaluation of the Potential for Cultural Resources in the Path of the Proposed Sovereign Engineering Pipeline, McKenzie County, North Dakota
2134	Stanley, L. and A. Simon 1981 McKenzie Electric Cooperative, Inc. Blue Buttes Line Survey, McKenzie County, North Dakota
2792	Rippeteau, B. 1982 Texaco Blue Buttes Saltwater Transfer Line Survey Report, McKenzie County, North Dakota
2807	Rippeteau, B. 1983 Texaco F-208X Survey Report, McKenzie County, North Dakota
2814	Floodman, M. 1983 Texaco G-208 Survey Report, McKenzie County, North Dakota
3313	Floodman, M. 1983 Getty Trading and Transportation Company McKenzie County Gathering System, McKenzie County, North Dakota
3484	Larson, T. 1984 Charlson 69 KV Transmission Line (SHSND Case #84-381), McKenzie County, North Dakota
4106	Kuehn, D. 1986 A Cultural Resource Inventory of One Mile of Proposed Road Improvement Along Forest Service Road 57, McKenzie County, North Dakota (UW#947)
4319	Metcalf, M. and K. Schweigert 1987 Cultural Resources Investigations on the North Dakota Segment of the Exxon Company, USA Bairoil-Dakota CO2 Pipeline Project, Golden Valley, Billings, Stark, Dunn, McKenzie, and Williams Counties, Western North Dakota Volumes 1 and 2
4734	Schweigert, K. and R. Persinger 1989 Koch Gathering Systems Plaza to Bear Den Pipeline Class III Inventory, Testing, and Site Evaluation McKenzie and Mountrail Counties, North Dakota
4776	Borchert, J. and D. Kuehn 1988 Koch Hydrocarbons Pipeline Cultural Resource Inventory in McKenzie County, North Dakota UW#1160
4898	Fox, R. 1989 Charlson Road Project Cultural Resource Inventory McKenzie County, North Dakota
5533	Floodman, M. 1991 Nelson Allotment Water Projects McKenzie District, Little Missouri National Grasslands Sections 8, 27, 28, 33 T151N, R95W McKenzie County, North Dakota
5627	Olson, B. 1991 Diamond Resources, Inc. Amerada Hess Corporation Government Dorough #9 Gasline Cultural Resources Inventory, McKenzie County, North Dakota
5656	Borchert, J. 1991 Amoco Pipeline Company Connecting the Dorough #9 Well to the Keene Station, McKenzie County, Cultural Resource Inventory UW#1474
5748	Olson, B. 1992 Amerada Hess Corporation, 10 Inch Natural Gas Pipeline Project Cultural Resources Inventory Revised Report Addendum McKenzie and Williams Counties, North Dakota
5749	Olson, B. 1992 Amerada Hess Corporation, 10 Inch Natural Gas Pipeline Project Cultural Resources Inventory McKenzie and Williams Counties, North Dakota and Final Report
6514	Klinner, D. 1995 Amerada Hess Corporation's Proposed Pipeline in Sec. 8, 9, T151N, R95W, McKenzie County, North Dakota: Results of a Class III Cultural Resources Inventory, McKenzie County, North Dakota UW#1808



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<b>Table 3: Manuscript Files Search Results—Apex—Targa Keene to Charlson</b>	
MS #	Reference
7144	Olson, B. 1998 Dakota Gasification Company Co2 Pipeline Selected Segments in Mercer, Dunn, McKenzie, Williams, and Divide Counties, North Dakota: A Class III Cultural Resource Inventory and Appendix B: USGS Topographic Coverage of the Pipeline
7569	Olson, B. 2000 Dakota Gasification CO2 Pipeline Compliance Report in McKenzie, Williams, Dunn, and Divide County, North Dakota
8657	Bluemle, B. 2003 Blue Buttes 3D Seismic Project: A Cultural Resource Inventory in McKenzie County, North Dakota
10609	Burns, W. 2008 Blue Buttes Pipeline: A Class III Cultural Resource Inventory, McKenzie County, North Dakota
10941	Pollman, J. and W. Burns 2009 BB-Federal-151-95-0817H-1 Well Pad and Access Road: A Class III Cultural Resource Inventory, McKenzie County, North Dakota
10944	Pollman, J. and W. Burns 2009 Blue Buttes Pipeline Survey in T151, R95W, Sections 8, 9, and 16: A Class III Cultural Resource Inventory, McKenzie County, North Dakota
11685	Klinner, D. 2010 Keene Station: A Class III Cultural Resource Inventory, McKenzie County, North Dakota
11710	Morrison, J. 2010 2010 McKenzie Rural Water District Phase II Waterline: Class II and III Cultural Resource Inventory and Test Excavations, McKenzie County, North Dakota
11790	Harty, J., M. Shropshire, and D. Klinner 2010 SORTI and Dunn Pipeline Projects: A Class III Cultural Resource Inventory, Williams and McKenzie County, North Dakota
11791	France, E. and D. Reinhart 2010 Bridger Pipeline Project: Class I and III Cultural Resource Investigations in Western North Dakota, Dunn, Billings, McKenzie Counties
12001	Springer, K. 2011 The 10-053-015 Pipeline Systems Project Cultural Resources Inventory McKenzie County, North Dakota
12832	Springer, K. 2011 The 11-053-017 Pipeline System Project Cultural Resources Inventory, McKenzie County, North Dakota
13002	Kinsey, M. and E. Stine 2012 Enbridge Sanish Pipeline Project, an Addendum for Reroutes Along the Sorti and Dunn Pipeline Project: A Class III Inventory in McKenzie and Williams Counties, North Dakota
13099	Kulevsky, A. and E. Stine 2012 BakkenLink Pipeline: A Class II and Class III Cultural Resource Inventory in Billings, Stark, McKenzie, and Williams Counties, North Dakota
14084	McCarty, A. 2013 A Class I and Class III Cultural Resource Inventory of the Tesoro's Keene #2 Crude Oil Storage Facility, McKenzie County, North Dakota
14852	Bluemle, W. and E. Stine 2014 North Dakota Department of Transportation's Highway 1806 Project: A Class III Cultural Resource Inventory in McKenzie County, North Dakota
15182	Picka, C. and M. Cox 2014 A Class I and Class III Cultural Resource Inventory of the Paradigm Charlson Extension Gathering Pipeline, McKenzie County, North Dakota
15265	Leroy, A.



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Table 3: Manuscript Files Search Results—Apex—Targa Keene to Charlson	
MS #	Reference
	2013 BB Chapin 151-95-0506-H2, 3, 4 Well Pad and Access Road: A Class III Cultural Resource Inventory, McKenzie County, North Dakota
15304	Molyneaux, B. and J. Morrison 2014 A Class III Cultural Resources Inventory at the Keene Office Tower Site, NWNW Section 24, T152N R96W, McKenzie County, North Dakota

- 10. Historic Context (Study Unit):** Physiographically, the project is located in the Coteau Slope portion of the Great Plains Physiographic Region (Bluemle 2000, 2007). The area showcases rolling and hilly topography with local relief between 300 and 500 feet. Fifty to 80 percent of the region contains gentle slopes. Glacial and erosional landforms are found throughout the physiographic region. Archaeologically, the proposed undertaking is located in the Garrison Study Unit as defined in the *North Dakota Comprehensive Plan for Historic Preservation: Archaeological Component* (SHSND 2008) (Figure 1). The reader is referred to Bluemle (2000) and SHSND (2008) for a detailed overview of the area’s physiography and archaeology. Overviews of the project area can be seen in Figures 2 and 3.
- 11. Fieldwork Date(s):** October 15, 2014 to October 16, 2014
- 12. Field Personnel:** Project Director Diana Barg and Field Technician Lynsee Langsdon.
- 13. Field Methods and Conditions:** Metcalf conducted a Class III cultural resource inventory of the project area from October 15 to October 16, 2014. The inventory conformed to standards outlined in the *North Dakota SHPO Guidelines Manual for Cultural Resource Inventory Projects* (SHSND 2012). Pedestrian transects were spaced no more than 15-meters apart throughout the APE. The weather during survey was overcast, wet, and windy.

In accordance with Metcalf procedural guidelines, when encountering a site, archaeologists photographed the site area and features, produced a site sketch map with the aid of the GPS unit, and filled out a North Dakota Cultural Resource Survey site form. The APE boundaries are mapped with a handheld GPS unit, and during the course of the inventory, representative digital photographs and field notes are taken. Copies of the photos, maps, and field notes are on file at the Metcalf Bismarck office.

Each survey block within the APE measured 75 feet (ft) by 100 ft (7500 ft<sup>2</sup> or 0.17 acres) on both sides of each stream crossing. Six stream crossings were surveyed for a total of 12 survey blocks and a total inventory area of 2.04 acres. All stream crossings encountered along the route were surveyed; the survey was conducted prior to the jurisdictional directive regarding which stream crossings fell under federal oversight.



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The vegetation in the APE is comprised of cropland; a combination of native grasses, non-native grasses, and other vegetation cover; and inundated areas. The majority of the stream crossings in the APE are native prairie mixed with non-native grasses and other vegetation cover (4 stream crossings). The ground surface visibility (GSV) in the native and non-native grasses varied from 0 and 10 percent. Many of the native and non-native prairie landscapes are used as pastureland for cattle and horses or are hayed, which has caused disturbance. Two stream crossings were within cropland, which includes many fields that have been harvested or hayed with some areas that were modified by the streams and remain natural. The GSV in the cropland varied from 0 and 30 percent. Four of the stream crossings contained areas of standing or flowing water and wetlands that could not be surveyed; areas adjacent to inundation were surveyed. Two of the stream crossings were intermittently dry and did not hold water at the time of survey; however, vegetation suggests water is often present in the stream. The landscape surrounding the APE is rural and agricultural, with farmsteads and oil extraction machinery present. Multiple homes, farms, well pads, cropland, and pastureland are located within the immediate vicinity of the APE.

14. **Results and Recommendations:** No cultural resources (i.e., sites, buildings, structures, objects, or districts that are at least 50 years in age) were encountered during the inventory of the stream crossings. Metcalf recommends a finding of *No Historic Properties Affected* (36CFR800.4[d][1]) for the proposed undertaking as surveyed, mapped, and documented herein.



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### 15. References Cited:

Bluemle, J. P.

2000 *The Face of North Dakota* 3<sup>rd</sup> Edition. Education Series 26. North Dakota Geological Survey. Bismarck, North Dakota.

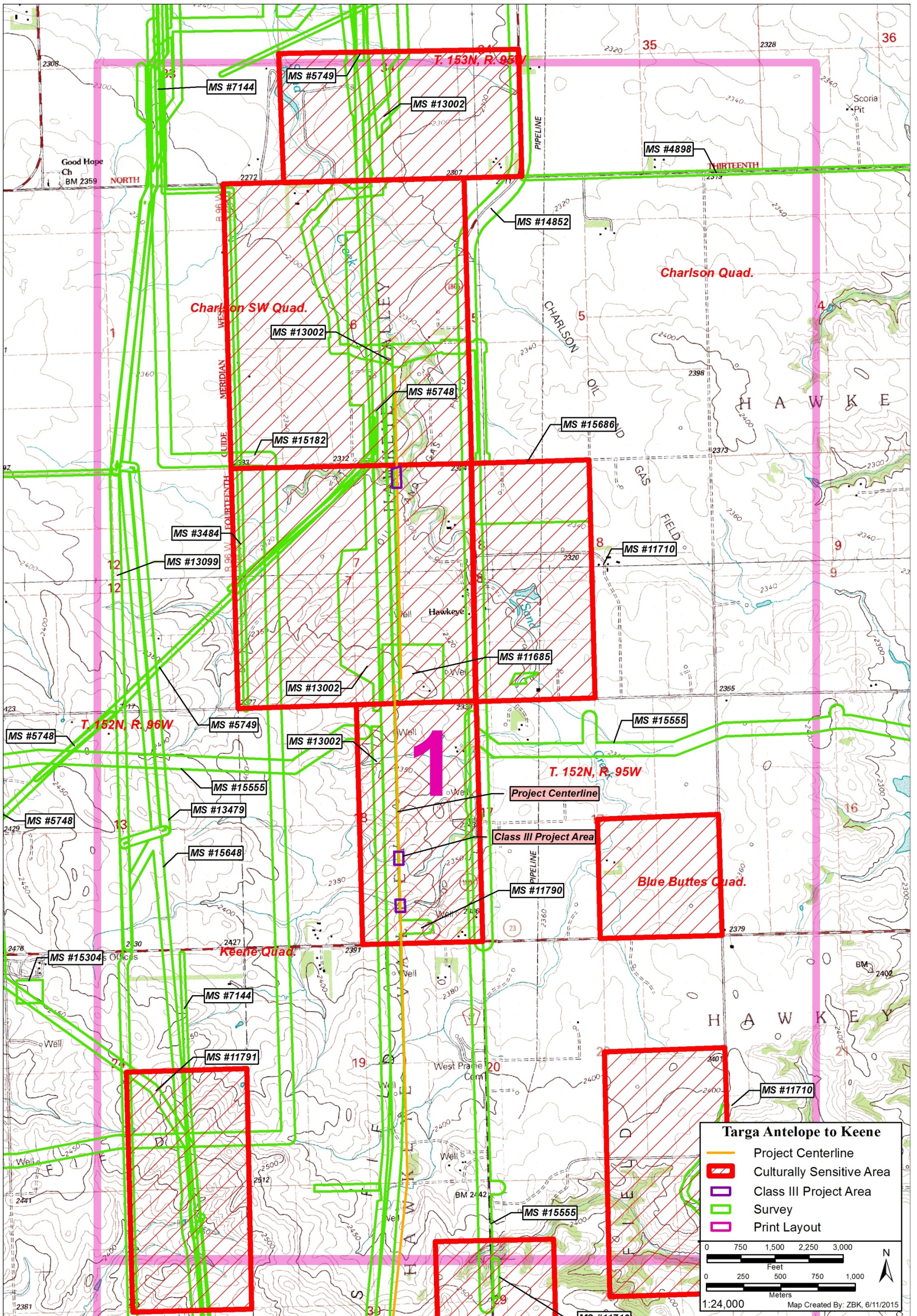
2007 Glacial Lake Agassiz. North Dakota Geological Survey. North Dakota Note #1. Electronic document, <https://www.dmr.nd.gov/ndgs/NDNotes/Agassiz/Lake%20Agassiz.asp>, accessed August 2014.

State Historical Society of North Dakota (SHSND)

2008 *The North Dakota Comprehensive Plan for Historic Preservation: Archeological Component*. Electronic document, <http://history.nd.gov/hpforms.html>, accessed October 2013.

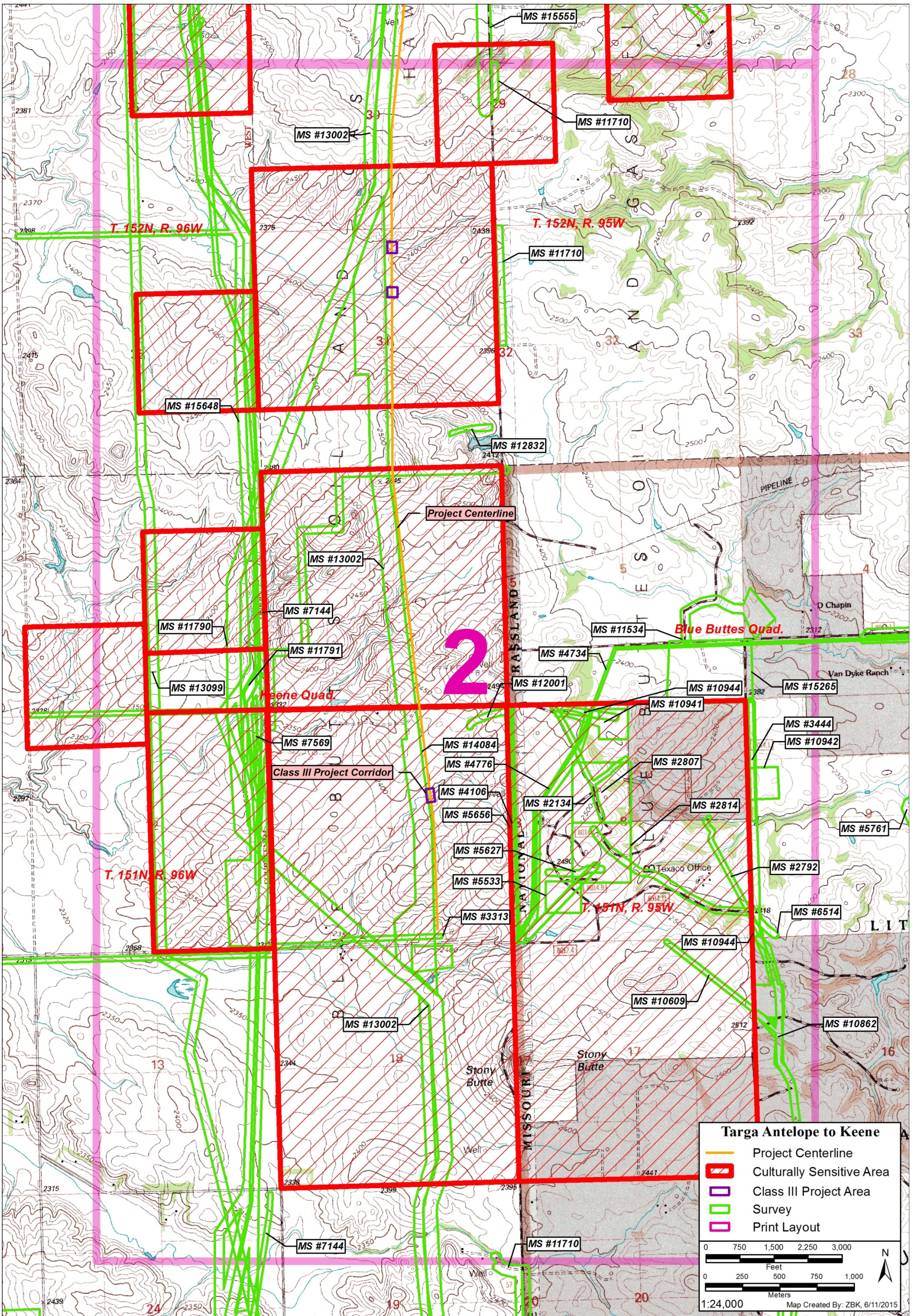
2012 *North Dakota SHPO Guidelines Manual for Cultural Resource Inventory Projects*. Electronic document, <http://history.nd.gov/hp/PDFinfo/ND%20SHPO%20Guidelines%20Manual.pdf>, accessed May 2013.

**Small Survey Report**  
Map and Photo Section



**Map 1:** The location of the project area, cultural resources, and surveys depicted on the USGS 7.5' Charlson SW (1965), Charlson (1965, photorevised 1997), Keene (1997), and Blue Buttes (1964, photorevised 1997) quadrangle maps.

Small Survey Report  
Map and Photo Section



Map 2: The location of the project area, cultural resources, and surveys depicted on the USGS 7.5' Keene (1997) and Blue Buttes (1964, photorevised 1997) quadrangle maps.

## Small Survey Report

### Map and Photo Section



**Figure 2:** Overview of a stream crossing in the project area, view east (Image 3045).



**Figure 3:** Overview of a stream crossing in the project area, view east (Image 3066).