



**STATE  
HISTORICAL  
SOCIETY  
OF NORTH DAKOTA**

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*Governor of North Dakota*

October 30, 2013

North Dakota  
State Historical Board

Ms. Christina Burns  
Beaver Creek Archaeology  
1632 Capitol Way  
Bismarck, ND 58501

Calvin Grinnell  
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A. Ruric Todd III  
*Jamestown - Vice President*

NDSHPO REF.: 13-1456 PSC PU-13-136 Hiland Operating, LLC "Class III Intensive Cultural Resource Inventory for the Market Center Pipeline in Mountrail, McKenzie, and Williams Counties, North Dakota"

Margaret Puetz  
*Bismarck - Secretary*

Albert I. Berger  
*Grand Forks*

Dear Ms. Burns,

Gereld Gemtholz  
*Valley City*

We reviewed NDSHPO REF.: 13-1456 PSC PU-13-136 Hiland Operating, LLC "Class III Intensive Cultural Resource Inventory for the Market Center Pipeline in Mountrail, McKenzie, and Williams Counties, North Dakota," and find the Beaver Creek Archaeology report by Brittany Brooks (October 2013) acceptable. We find "No Significant Sites" for the portions of the project covered in the above-captioned report, provided that the avoidance and monitoring procedures outlined on pages 19-24 are followed, (copy attached). Any further ground disturbance not previously inventoried should be inventoried at a Class III pedestrian survey level.

Diane K. Larson  
*Bismarck*

Chester E Nelson, Jr.  
*Bismarck*

Thank you for the opportunity to review this project. If you have questions please contact either Paul Picha at [ppicha@nd.gov](mailto:ppicha@nd.gov) or (701) 328-3574 or Susan Quinnell at [squinnell@nd.gov](mailto:squinnell@nd.gov) or (701) 328-3576.

Sara Otte Coleman  
*Director  
Tourism Division*

Kelly Schmidt  
*State Treasurer*

Alvin A. Jaeger  
*Secretary of State*

Sincerely,

Mark Zimmerman  
*Director  
Parks and Recreation  
Department*

Merlan E. Paaverud, Jr.  
State Historic Preservation Officer (North Dakota)  
and  
Director, State Historical Society of North Dakota

Grant Levi  
*Director  
Department of Transportation*

Merlan E. Paaverud, Jr.  
*Director*

C: copy of pages 19-24

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**Class III Intensive Cultural Resource Inventory for  
the Market Center Pipeline in Mountrail,  
McKenzie, and Williams Counties, North Dakota  
(Volume I)**

Prepared for: Keitu Engineers & Consultants, Inc.

On Behalf of: Hiland Operating, LLC

Prepared by: Brittany Brooks, RPA

Beaver Creek Archaeology, Inc.  
Bismarck, North Dakota

BCA Project #: 2013 - 520

October, 2013



**Beaver Creek**  
**ARCHAEOLOGY**

WHERE PROGRESS MEETS PRESERVATION

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### ***Intensive Pedestrian Survey***

BCA cultural resource staff conducted the Class III Cultural Resource Inventory within the APE between May 28, 2013 and September 9, 2013. The Secretary of the Interior (SOI) qualified archaeologist Wade Burns (PI), and Lindsey Reiners (Field Director), and Brittany Brooks (Crew Chief) along with Eric McCann, Kevin Mieras, Tara Friend, and Erica Kramer (Staff Archaeologists) inventoried the project area. Jay Ell and Mary Mortensen (GIS Coordinator) created the project maps. During the inventory, cultural resources were found within the APE. The findings include 73 stone feature sites, one CM Scatter site, seven historic/architectural sites, and three isolated finds.

### ***Summary and Recommendations***

Between May and September, 2013, BCA conducted a Class III Cultural Resource Inventory of the proposed project area. The Class III Inventory of the original APE covered a pipeline corridor approximately 236 miles long with the majority of the corridor 250 feet wide (7,159 acres). A total of 7,441 acres was inventoried for the proposed project due to reroutes during the inventory. The location of the APE can be seen on the maps located in Appendix B.

During the cultural resource inventory, 102 sites (21 previously recorded sites and 81 newly recorded sites) as well as three isolated finds were found in or near the APE (see Table 6). Sixteen of these sites are inside the APE (see Table 3). There are 48 sites completely avoided by the APE due to a series of reroutes and as a result, they are no longer inside the APE (see Table 4). Of the 48 sites in Table 4, 28 sites are within 100 feet of the APE. The remaining 20 sites are no longer near the APE due to reroutes. The isolated finds are not eligible and no avoidance by the project is necessary.

Fourteen sites within the APE were previously impacted by the original Market Center Pipeline, which did not require an archaeological inventory at the time of design and construction (see Table 2). Of these fourteen sites, three were previously recorded. Site 32MN562 was impacted by an existing pipeline and is now ineligible to the National Register of Historic Places (NRHP) as the site was destroyed. The eastern side of site 32MZ1719 has been impacted by the existing pipeline. However, the site still retains integrity and is considered potentially eligible to the NRHP and should be avoided in the future. Site 32WI104 is located in an agricultural field and was impacted by the construction of a well pad and is ineligible to the NRHP so no avoidance is necessary. The remaining 11 impacted sites were disturbed by the existing pipeline. These remaining sites are either avoided by a series of reroutes, or are avoided by the narrowing of the APE, and as a result will not be further impacted by the proposed project.

*Class III Intensive Cultural Resource Inventory for the Market Center Pipeline in Mountrail, McKenzie, and Williams Counties, North Dakota*

**Table 2. Previously Impacted Sites.**

<b>SITS #</b>	<b>Description</b>	<b>NRHP Status</b>	<b>Recommendation</b>
32MN562 (Update)	Cairns (Destroyed)	Ineligible	No Avoidance Necessary
32MZ1719	Cairn, CM Scatter	Unevaluated	Avoidance
32WI104 (Update)	CM Scatter	Ineligible	No Avoidance Necessary
32WI1393	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1394	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1395	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1396	Stone Circles	Unevaluated	Avoidance
32WI1397	Stone Circles	Unevaluated	Avoidance
32WI1398	Stone Circles	Unevaluated	Avoidance
32WI1400	Stone Circles	Unevaluated	Avoidance
32WI1402	Stone Circles, Stone Arc	Unevaluated	Avoidance
32WI1403	Stone Circle	Unevaluated	Avoidance
32WI1415	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1416	Stone Circles, Rock Alignment	Unevaluated	Avoidance

**Table 3. Sites Inside the APE.**

<b>SITS #</b>	<b>Description</b>	<b>NRHP Status</b>	<b>Recommendation</b>
32MN562 (Update)	Cairns (Destroyed)	Ineligible	No Avoidance Necessary
32MN900	Historic Depression	Ineligible	No Avoidance Necessary
32MN1093	Farmstead	Ineligible	No Avoidance Necessary
32MN1111	Farmstead	Ineligible	No Avoidance Necessary
32MN1127	Historic Depression	Ineligible	No Avoidance Necessary
32MZ782	CM Scatter	Ineligible	No Avoidance Necessary
32MZ1174	Irrigation Project	Unevaluated	Avoidance by Boring
32MZ1561	Transmission Line	Ineligible	No Avoidance Necessary
32MZ2206	Stone Circle	Unevaluated	Avoidance by Boring Around
32MZ2416	CM Scatter	Ineligible	No Avoidance Necessary
32MZ2625	CM Scatter	Ineligible	No Avoidance Necessary
32WI104 (Update)	CM Scatter	Ineligible	No Avoidance Necessary
32WI253	Farmstead	Ineligible	No Avoidance Necessary
32WI962	Historic Depressions, Mound, CM Scatter	Ineligible	No Avoidance Necessary
32WI1407	Stone Foundation	Ineligible	No Avoidance Necessary
32WI1417	Historic Depression	Ineligible	No Avoidance Necessary

**Table 4. Sites Completely Avoided due to APE Reroutes.**

<b>SITS #</b>	<b>Description</b>	<b>NRHP Status</b>	<b>Recommendation</b>
32MN99	Stone Circles, Cairns, Chipped Stone	Unevaluated	Avoidance
32MN830	Stone Circles, Other Stone Features	Unevaluated	Avoidance
32MN1076	Stone Circle	Unevaluated	Avoidance
32MN1092	Stone Circle	Unevaluated	Avoidance

*Class III Intensive Cultural Resource Inventory for the Market Center Pipeline in Mountrail, McKenzie, and Williams Counties, North Dakota*

<b>SITS #</b>	<b>Description</b>	<b>NRHP Status</b>	<b>Recommendation</b>
32MN1096	Stone Circles	Unevaluated	Avoidance
32MN1097	Stone Circles, Stone Arc	Unevaluated	Avoidance
32MN1098	Stone Circles	Unevaluated	Avoidance
32MN1100	Stone Circles	Unevaluated	Avoidance
32MN1102	Stone Circles	Unevaluated	Avoidance
32MN1104	Stone Circles	Unevaluated	Avoidance
32MN1105	Stone Circles, Cairns	Unevaluated	Avoidance
32MN1107	Stone Circles	Unevaluated	Avoidance
32MN1109	Stone Circles, Cairn, Stone Arc	Unevaluated	Avoidance
32MN1110	Stone Circle	Unevaluated	Avoidance
32MN1112	Cairn	Unevaluated	Avoidance
32MN1114	Stone Circle	Unevaluated	Avoidance
32MN1115	Stone Circles	Unevaluated	Avoidance
32MN1116	Stone Circles	Unevaluated	Avoidance
32MN1117	Stone Circles, Cairns, Stone Arcs	Unevaluated	Avoidance
32MN1118	Stone Circle, Stone Arc	Unevaluated	Avoidance
32MN1119	Stone Circles, Cairns	Unevaluated	Avoidance
32MN1120	Stone Circles	Unevaluated	Avoidance
32MN1121	Stone Circles	Unevaluated	Avoidance
32MN1123	Stone Circles, Cairn	Unevaluated	Avoidance
32MN1126	Stone Circle	Unevaluated	Avoidance
32MZ2623	Historic Grave	Ineligible	Avoidance
32MZ2624	Stone Circle	Unevaluated	Avoidance
32MZ2630	Stone Circle	Unevaluated	Avoidance
32WI106	Stone Circle	Unevaluated	Avoidance
32WI1164	Cairns	Unevaluated	Avoidance
32WI1393	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1396	Stone Circles	Unevaluated	Avoidance
32WI1397	Stone Circles	Unevaluated	Avoidance
32WI1398	Stone Circles	Unevaluated	Avoidance
32WI1399	Historic Foundation, Wall, Depression	Ineligible	No Avoidance Necessary
32WI1400	Stone Circles	Unevaluated	Avoidance
32WI1401	Stone Circles	Unevaluated	Avoidance
32WI1402	Stone Circles, Stone Arc	Unevaluated	Avoidance
32WI1405	Stone Circle	Unevaluated	Avoidance
32WI1408	Stone Alignment, Stone Circle, Cairn	Unevaluated	Avoidance
32WI1409	Cairn	Unevaluated	Avoidance
32WI1412	Stone Circle	Unevaluated	Avoidance
32WI1413	Stone Circle	Unevaluated	Avoidance
32WI1414	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1416	Stone Circles, Rock Alignment	Unevaluated	Avoidance
32WI1418	Stone Circles	Unevaluated	Avoidance
32WI1419	Stone Circle	Unevaluated	Avoidance
32WI1420	Stone Circles, Cairn, Stone Arc	Unevaluated	Avoidance

*Class III Intensive Cultural Resource Inventory for the Market Center Pipeline in Mountrail, McKenzie, and Williams Counties, North Dakota*

**Table 5.** Sites within the APE avoided by narrowing of the APE.

<b>SITS #</b>	<b>Description</b>	<b>NRHP Status</b>	<b>Recommendation</b>
32MN1077	Stone Circle	Unevaluated	Avoidance
32MN1080	Stone Circles	Unevaluated	Avoidance
32MN1094	Stone Circles	Unevaluated	Avoidance
32MN1095	Stone Circle, Stone Arc	Unevaluated	Avoidance
32MN1099	Stone Circle, Cairn	Unevaluated	Avoidance
32MN1101	Stone Circle	Unevaluated	Avoidance
32MN1103	Stone Circles, Cairns	Unevaluated	Avoidance
32MN1106	Stone Circle	Unevaluated	Avoidance
32MN1108	Stone Circle	Unevaluated	Avoidance
32MN1113	Cairn	Unevaluated	Avoidance
32MN1122	Stone Circle	Unevaluated	Avoidance
32MN1124	Stone Circle	Unevaluated	Avoidance
32MN1125	Cairn	Unevaluated	Avoidance
32MN1128	Stone Circle, Cairn	Unevaluated	Avoidance
32MN1129	Stone Circles, Cairn	Unevaluated	Avoidance
32MN1130	Stone Circle	Unevaluated	Avoidance
32MN1131	Cairn	Unevaluated	Avoidance
32MN1132	Stone Circle	Unevaluated	Avoidance
32MZ1719	Cairn, CM Scatter	Unevaluated	Avoidance
32MZ2626	Stone Circles	Unevaluated	Avoidance
32MZ2627	Cairn	Unevaluated	Avoidance
32MZ2628	Cairn	Unevaluated	Avoidance
32MZ2629	Stone Circle	Unevaluated	Avoidance
32WI107	Stone Circles, Cairn	Unevaluated	Avoidance
32WI1024	Stone Circle	Unevaluated	Avoidance
32WI1297	Stone Circle	Unevaluated	Avoidance
32WI1394	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1395	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1403	Stone Circle	Unevaluated	Avoidance
32WI1404	Stone Arc	Unevaluated	Avoidance
32WI1406	Stone Circle	Unevaluated	Avoidance
32WI1410	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1411	Stone Arc	Unevaluated	Avoidance
32WI1415	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1421	Stone Circles, Cairn	Unevaluated	Avoidance
32WI1422	Stone Circle, Cairns	Unevaluated	Avoidance
32WI1423	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1424	Stone Circle	Unevaluated	Avoidance

The APE is located in an area where it could potentially have an adverse effect on cultural resources (see Table 6). See Appendix D for site avoidance measures.

*Class III Intensive Cultural Resource Inventory for the Market Center Pipeline in Mountrail, McKenzie, and Williams Counties, North Dakota*

**Table 6. Cultural Resources Located within or near the APE.**

<b>SITS #</b>	<b>Description</b>	<b>NRHP Status</b>	<b>Recommendation</b>
32MN99	Stone Circles, Cairns, Chipped Stone	Unevaluated	Avoidance
32MN562 (Update)	Cairns (Destroyed)	Ineligible	No Avoidance Necessary
32MN830	Stone Circles, Other Stone Features	Unevaluated	Avoidance
32MN900	Historic Depression	Ineligible	No Avoidance Necessary
32MN1076	Stone Circle	Unevaluated	Avoidance
32MN1077	Stone Circle	Unevaluated	Avoidance
32MN1080	Stone Circles	Unevaluated	Avoidance
32MN1092	Stone Circle	Unevaluated	Avoidance
32MN1093	Farmstead	Ineligible	No Avoidance Necessary
32MN1094	Stone Circles	Unevaluated	Avoidance
32MN1095	Stone Circle, Stone Arc	Unevaluated	Avoidance
32MN1096	Stone Circles	Unevaluated	Avoidance
32MN1097	Stone Circles, Stone Arc	Unevaluated	Avoidance
32MN1098	Stone Circles	Unevaluated	Avoidance
32MN1099	Stone Circle, Cairn	Unevaluated	Avoidance
32MN1100	Stone Circle	Unevaluated	Avoidance
32MN1101	Stone Circle	Unevaluated	Avoidance
32MN1102	Stone Circles	Unevaluated	Avoidance
32MN1103	Stone Circles, Cairns	Unevaluated	Avoidance
32MN1104	Stone Circles	Unevaluated	Avoidance
32MN1105	Stone Circles, Cairns	Unevaluated	Avoidance
32MN1106	Stone Circle	Unevaluated	Avoidance
32MN1107	Stone Circles	Unevaluated	Avoidance
32MN1108	Stone Circle	Unevaluated	Avoidance
32MN1109	Stone Circles, Cairn, Stone Arc	Unevaluated	Avoidance
32MN1110	Stone Circle	Unevaluated	Avoidance
32MN1111	Farmstead	Ineligible	No Avoidance Necessary
32MN1112	Cairn	Unevaluated	Avoidance
32MN1113	Cairn	Unevaluated	Avoidance
32MN1114	Stone Circle	Unevaluated	Avoidance
32MN1115	Stone Circles	Unevaluated	Avoidance
32MN1116	Stone Circles	Unevaluated	Avoidance
32MN1117	Stone Circles, Cairns, Stone Arcs	Unevaluated	Avoidance
32MN1118	Stone Circle, Stone Arc	Unevaluated	Avoidance
32MN1119	Stone Circles, Cairns	Unevaluated	Avoidance
32MN1120	Stone Circles	Unevaluated	Avoidance
32MN1121	Stone Circles	Unevaluated	Avoidance
32MN1122	Stone Circle	Unevaluated	Avoidance
32MN1123	Stone Circles, Cairn	Unevaluated	Avoidance
32MN1124	Stone Circle	Unevaluated	Avoidance
32MN1125	Cairn	Unevaluated	Avoidance
32MN1126	Stone Circle	Unevaluated	Avoidance
32MN1127	Historic Depression	Ineligible	No Avoidance Necessary
32MN1128	Stone Circle, Cairn	Unevaluated	Avoidance
32MN1129	Stone Circles, Cairn	Unevaluated	Avoidance
32MN1130	Stone Circle	Unevaluated	Avoidance

*Class III Intensive Cultural Resource Inventory for the Market Center Pipeline in Mountrail, McKenzie, and Williams Counties, North Dakota*

<b>SITS #</b>	<b>Description</b>	<b>NRHP Status</b>	<b>Recommendation</b>
32MN1131	Cairn	Unevaluated	Avoidance
32MN1132	Stone Circle	Unevaluated	Avoidance
32MZ782	CM Scatter	Ineligible	No Avoidance Necessary
32MZ1174	Irrigation Project	Unevaluated	Avoidance by Boring
32MZ1561	Transmission Line	Ineligible	No Avoidance Necessary
32MZ1719	Cairn, CM Scatter	Unevaluated	Avoidance
32MZ2206	Stone Circle	Unevaluated	Avoidance by Boring Around
32MZ2416	CM Scatter	Ineligible	No Avoidance Necessary
32MZ2623	Historic Grave	Ineligible	Avoidance
32MZ2624	Stone Circle	Unevaluated	Avoidance
32MZ2625	CM Scatter	Ineligible	No Avoidance Necessary
32MZ2626	Stone Circles	Unevaluated	Avoidance
32MZ2627	Cairn	Unevaluated	Avoidance
32MZ2628	Cairn	Unevaluated	Avoidance
32MZ2629	Stone Circle	Unevaluated	Avoidance
32MZ2630	Stone Circle	Unevaluated	Avoidance
32WI104 (Update)	CM Scatter	Ineligible	No Avoidance Necessary
32WI106	Stone Circle	Unevaluated	Avoidance
32WI107	Stone Circles, Cairn	Unevaluated	Avoidance
32WI253	Farmstead	Ineligible	No Avoidance Necessary
32WI962	Historic Depressions, Mound, CM Scatter	Ineligible	No Avoidance Necessary
32WI1024	Stone Circle	Unevaluated	Avoidance
32WI1164	Cairns	Unevaluated	Avoidance
32WI1297	Stone Circle	Unevaluated	Avoidance
32WI1393	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1394	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1395	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1396	Stone Circles	Unevaluated	Avoidance
32WI1397	Stone Circles	Unevaluated	Avoidance
32WI1398	Stone Circles	Unevaluated	Avoidance
32WI1399	Historic Foundation, Wall, Depression	Ineligible	No Avoidance Necessary
32WI1400	Stone Circles	Unevaluated	Avoidance
32WI1401	Stone Circles	Unevaluated	Avoidance
32WI1402	Stone Circles, Stone Arc	Unevaluated	Avoidance
32WI1403	Stone Circle	Unevaluated	Avoidance
32WI1404	Stone Arc	Unevaluated	Avoidance
32WI1405	Stone Circle	Unevaluated	Avoidance
32WI1406	Stone Circle	Unevaluated	Avoidance
32WI1407	Historic Square Rock Alignment	Ineligible	No Avoidance Necessary
32WI1408	Stone Alignment, Stone Circle, Cairn	Unevaluated	Avoidance
32WI1409	Cairn	Unevaluated	Avoidance
32WI1410	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1411	Stone Arc	Unevaluated	Avoidance
32WI1412	Stone Circle	Unevaluated	Avoidance
32WI1413	Stone Circle	Unevaluated	Avoidance
32WI1414	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1415	Stone Circles, Cairns	Unevaluated	Avoidance

*Class III Intensive Cultural Resource Inventory for the Market Center Pipeline in Mountrail, McKenzie, and Williams Counties, North Dakota*

SITS #	Description	NRHP Status	Recommendation
32WI1416	Stone Circles, Rock Alignment	Unevaluated	Avoidance
32WI1417	Historic Depression	Ineligible	No Avoidance Necessary
32WI1418	Stone Circle	Unevaluated	Avoidance
32WI1419	Stone Circle	Unevaluated	Avoidance
32WI1420	Stone Circles, Cairn, Stone Arc	Unevaluated	Avoidance
32WI1421	Stone Circles, Cairn	Unevaluated	Avoidance
32WI1422	Stone Circle, Cairns	Unevaluated	Avoidance
32WI1423	Stone Circles, Cairns	Unevaluated	Avoidance
32WI1424	Stone Circle	Unevaluated	Avoidance

A buffer of 50 feet is recommended between the site boundaries and proposed construction activities; however, on the Fort Berthold Indian Reservation a buffer of 75 feet is recommended between the site features and proposed construction activities. There are 38 sites where portions of the APE corridor narrow to a width of 50 feet in order to avoid sites (see Table 5). In areas where a site is near the already constructed pipeline portion, it is recommended that construction activities stay on the opposite side of the existing pipeline. In areas where there is pipeline disturbance through a site, it is recommended that proposed construction activities stay within the already disturbed corridor. Fencing along site buffer lines in conjunction with site monitoring during construction would minimize any adverse effect to the sites.

Beaver Creek Archaeology, Inc. recommends that unevaluated sites within 100 feet of the APE have temporary site buffer fencing and monitoring during construction around these sites (see Avoidance Maps in Appendix D). No avoidance is necessary for ineligible sites within or near the APE. Furthermore, BCA recommends that the "Unanticipated Discovery Plan" (UDP) approved by the NDSHPO and created by Keitu Engineers and Consulting, Inc. be used during the construction phase of the project.

Provided that the sites listed in Table 6, as discussed above, are avoided by the recommendations of site buffer fencing and monitoring, Beaver Creek Archaeology, Inc. recommends that the project proceed under a *No Adverse Effects* as surveyed, mapped and described herein.