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November 1, 2010

Ms. Kathleen M. Spilman, PE
Managing Director
Keitu Engineers and Consultants, Inc.
2610 Old Red Trail Suite C
PO Box 98
Mandan ND 58554

RECEIVED

NOV 01 2010

PUBLIC SERVICE COMMISSION

ND SHPO REF: 10-2081 PSC/COE Hiland Partners - Natural Gas and Natural Gas Liquids Pipeline Project in portions of [T151N R103W Sections 1, 2, 3, 4, and T151N R102W Section 6] McKenzie County, North Dakota

Dear Ms. Spilman,

We reviewed ND SHPO REF: 10-2081 PSC/COE Hiland Partners - Natural Gas and Natural Gas Liquids Pipeline Project in portions of [T151N R103W Sections 1, 2, 3, 4, and T151N R102W Section 6] McKenzie County, North Dakota. We would concur with a "No Historic Properties Affected" (federal) and "No Significant Sites Affected" (state of North Dakota) determinations, provided the project remains in the surveyed area as reported in Wade Burns and Gwen Jakel's "Highland Partners 8 Inch Natural Gas Pipeline: A Class III Cultural Resource Inventory in McKenzie County, North Dakota."

Thank you for the opportunity to review this project. If you have any questions please contact Susan Quinnell, Review and Compliance Coordinator at (701) 328-3576, e-mail squinnell@nd.gov

Sincerely,

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

C: Patrick Fahn, PSC
C: Dan Cimarosti, COE Bismarck

9 **PU-10-555** Filed: 11/1/2010 Pages: 1
Letter concurrence - No historic properties affected & no significant sites affected

State Historical Society of North Dakota
Merlan E. Paaverud, Jr.



**STATE
HISTORICAL
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OF NORTH DAKOTA**



Jack Dalrymple
Governor of North Dakota

June 28, 2011

North Dakota
State Historical Board

Mr. Wade Burns
Beaver Creek Archaeology, Inc.
301 1st Street NE Suite 201
Mandan ND 58554

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ND SHPO REF.: 11-1814 PSC Hiland Operating LLC "Hiland 1B Pipeline:
A Class III Cultural Resources Inventory in McKenzie County, North
Dakota"

Dear Mr. Burns,

We reviewed ND SHPO REF.: 11-1814 PSC Hiland Operating LLC "Hiland 1B
Pipeline: A Class III Cultural Resources Inventory in McKenzie County, North
Dakota." We find your and Bill Suess' report acceptable. We concur with "No
Historic Properties Affected" and "No Significant Sites" determinations,
provided the project follows the stipulations mentioned in the report, (attached).

Thank you for the opportunity to review this project. If you have any questions
please contact Susan Quinnell at (701)328-3576 or squinnell@nd.gov

Sincerely,


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

C: Patrick Fahn, PSC

4 **PU-10-554** Filed: 6/29/2011 Pages: 4
**Letter concurrence - no historic properties affected
and no significant sites affected**

State Historical Society of North Dakota
Merlan E. Paaverud, Jr.

**Hiland 1B Pipeline:
A Class III Cultural Resources Inventory in
McKenzie County, North Dakota**

Prepared for: Hiland Operating, LLC

Prepared by: Bill Suess and Wade Burns

Beaver Creek Archaeology, Inc.
Mandan, North Dakota

BCA Project #: 2011 - 113

June, 2011



Beaver Creek
ARCHAEOLOGY

WHERE PROGRESS MEETS PRESERVATION

301 1st St NE, Suite 201 | Mandan, ND 58554 | PH (701) 663.5521 | FX (701) 663.5589

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Inventory Report

Submitted by Beaver Creek Archaeology, Inc.
301 1st Street NE Suite 201 Mandan, North Dakota 58554
Phone: (701) 663-5521; e-mail: info@bcarch.org

update has been performed). The area proposed to be impacted by the current project is located on the northern side of the site in an already disturbed pipeline corridor which was previously tested in 1981 by UND. At that time it was determined that this portion of the site was a noncontributing element to the site. Sometime between 1981 and the present, the site was plowed up and all of the features destroyed excluding one cairn found on the west side of the gravel road which skirts the western edge of the site. In addition to being plowed, an oil well has been constructed on a portion of the site (see map inset for aerial photo of site disturbance). During the site revisit it was noted that cultural material (KRF flakes) was visible in the central to southern extent of the site boundary. The site has been severely impacted but it is still recommended that further investigation be conducted to determine if the remaining portion of the site south of the existing pipeline corridor and west of the well location is still possibly eligible or not. Evaluative testing would need to be conducted to determine if subsurface material is still intact, before any activity is to take place south of the previously disturbed pipeline corridor. As long as the proposed pipeline corridor stays within the inventoried area north of the existing pipeline, it is the archaeologist's professional opinion that no further impact will be made to site 32MZ561.

The second previously recorded site which is located within the APE is unevaluated site 32MZ1556 (Northern Pacific Railroad) (a site update has been performed). It is recommended that the pipeline crossing of the railroad tracks should be bored under the berm to avoid impacting the site. No physical harm will come to the railroad track or berm as long as boring occurs.

The third previously recorded site within the APE is 32MZ1174 (Lower Yellowstone Irrigation Canal System) (a site update has been performed). This site consisting of a series of irrigation canals which the project crosses on multiple occasions. It is recommended that all pipeline crossings of the irrigation canal system should be bored under the canals to avoid impacting the site. No physical harm will come to the irrigation canals if boring occurs. As long as the recommendations outlined above are followed, *No Significant Historic Properties Affected* is recommended and therefore, no further archaeological investigation is needed for the APE as mapped, photographed and described herein.

Inventory Report

Submitted by Beaver Creek Archaeology, Inc.
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Phone: (701) 663-5521; e-mail: info@bcarch.org

Component. The APE was comprised of plowed wheat fields, pasture which has been plowed in the past and native prairie rangeland. Vegetation in the area consists of native and non-native grasses, plants and forbs. Ground Surface Visibility (GSV) ranged from 95% in plowed fields to 30% in rangeland. 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 three new cultural resources and three previous sites which fall within the APE. Of the three new sites, the first newly recorded site consists of one stone circle (32MZ2206) which was identified within the inventoried area. The pipeline has been rerouted and the corridor tightened up to a 25ft width so that it is situated on the downward side of the opposing slope from the stone circle thus avoiding the feature by approximately 100ft. The pipeline route is limited to any further movement to the north due to the terrain drops off steeply. The opposing side slope where the proposed pipeline will be constructed offered good subsurface visibility showing no likelihood of subsurface deposits.

The second newly recorded site which is located within the inventoried area consists of a stone circle with an associated cairn (32MZ2205). The pipeline construction corridor within the proximity of the site will be contained to a 25ft corridor when it passes the site. The pipeline has also been moved in this location so that it is on the downward slope below the site location. The features will be avoided by approximately 100ft or greater in this area. *It is recommended that both site boundaries be fenced off and monitored by an archaeologist during the construction phase of the pipeline when working in the vicinity of each of the two previously mentioned sites.*

The third newly recorded site (32MZ2209) consists of three standing structures- house, barn & windmill, which were identified within the APE. The structures are recommended ineligible. Even though the site is ineligible, and would not need to be avoided, the project will avoid the features during construction.

The proposed pipeline also crosses three previously recorded sites. The first previously recorded site is 32MZ561 which is a former stone circle site that has been destroyed by plowing (a site