



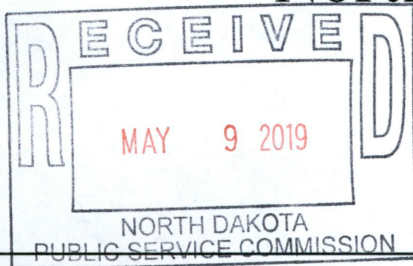
# North Dakota Geological Survey

Edward C. Murphy - State Geologist  
Department of Mineral Resources

Lynn D. Helms - Director

North Dakota Industrial Commission

[www.state.nd.us/ndgs](http://www.state.nd.us/ndgs)



May 9, 2019

Geri Schmaltz  
ND Public Service Commission  
600 E. Boulevard Ave, Dept. 408  
Bismarck, ND 58505-0840

Re: Belle Fourche Pipeline Company Skunk Hill – DPR Pipeline Conversion Project - Corridor Review Comments

The North Dakota Geological Survey appreciates the notification and opportunity to review and provide comment on the proposed oil and gas energy infrastructure development project. The Notice of Filing and Public Hearing for Case No. PU-18-405 of May 1, 2019 was reviewed by our office on May 9, 2019. We dropped in the alignment of the existing pipeline route on our landslide base maps and compared it to the locations of landslides that have been identified by detailed mapping work previously completed by our office summarized in the attached map. Additionally, the entire existing pipeline route was evaluated by reviewing contemporary National Agriculture Imagery Program (NAIP) aerial imagery from 2018 for the identification of any more recent landslide areas.

We noted that the proposed pipeline route generally passes along areas that are generally topographically flat with little relief and consequently are generally free of landslides. However, two locations of interest were noted where the pipeline route passes near cutbank meanders along the Green River in the NW1/4 of Sec. 15, T. 141 N., R. 98 W., in eastern Billings County where slumping has occurred along these cutbanks. The locations of these areas are listed below in Table 1:

Table 1. Locations of Interest along Pipeline Route

No.	County	Description	Longitude	Latitude
1	Billings	NE Facing Cutbank Meander Slope along Green River	-103.085559	47.029751
2	Billings	NE Facing Cutbank Meander Slope along Green River	-103.091181	47.033791

Landslide maps and data, along with LiDAR elevation data sets and mapping products for the project area are available on our website at: <https://www.dmr.nd.gov/ndgs/SurfaceMap/SurfaceMap.asp?source=landslide24k>

Careful examination of existing and proposed pipeline routes in North Dakota, along with applicable engineering evaluations of locations of concern and adherence to appropriate construction practices should be continued. You may also contact our offices directly, with any additional questions or comments, at (701) 328-8000.

Sincerely,

North Dakota Geological Survey:

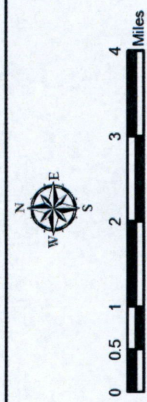
Fred Anderson  
Geologist  
[fjanderson@nd.gov](mailto:fjanderson@nd.gov)

FJA\Attachment

35 PU-18-405 Filed: 5/9/2019 Pages: 2  
Agency correspondence - ND Geological Survey letter

North Dakota Geological Survey

Fred Anderson, Geologist



# Skunk Hill to DPR 6" Pipeline

- Legend**
- Proposed Pipeline
  - Landslides
  - Pipeline Corridor (200 ft)

