



# North Dakota Geological Survey

Edward C. Murphy - State Geologist

Department of Mineral Resources

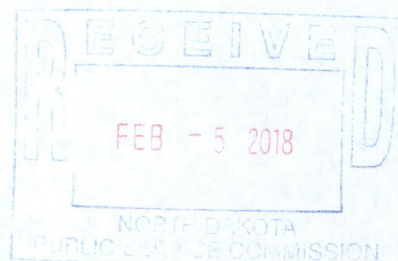
Lynn D. Helms - Director

North Dakota Industrial Commission

www.state.nd.us/ndgs

February 2, 2018

Geri Schmaltz  
Administrative Officer  
N.D. Public Service Commission  
600 East Boulevard Ave, Dept. 408  
Bismarck, ND 58505-0480



Re: ONEOK Proposed Cherry Creek Pipeline Notice (PU-17-483) Review Comments

The North Dakota Geological Survey appreciates the notification and opportunity to review and provide comment on the proposed oil and gas energy development project. The Notice of Filings and Public Hearings submitted to our office on February 1, 2018 was reviewed on February 2, 2018. We dropped in the approximate route of the proposed pipeline on our landslide base maps and compared the proposed route to the locations of landslides that have been identified by detailed mapping work previously completed by our office.

From this comparison, it appears that the proposed pipeline route may intersect directly with previously mapped landslide areas in northwestern McKenzie Co. along the southern valleys of the Missouri River in Sections 30 & 31 of T.153N., R.101W. The proposed route also appears to pass within areas where the areal density of mapped landslides is high within the northern valleys of the Missouri River in southwestern Williams Co. along the Painted Woods Creek drainage in Sections 4 & 9 of T.153N., R.102W. There should be careful examination of route selection and construction practices in these potentially unstable areas and these areas should be avoided whenever possible.

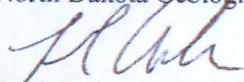
Downloadable Areas of Landslides maps and available detailed LiDAR elevation mapping and data products for the 1:24,000 and 1:100,000 scale quadrangles that encompass the proposed pipeline route can be found on our website at:

<https://www.dmr.nd.gov/ndgs/landslides/>

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

27 PU-17-483 Filed: 2/5/2018 Pages: 1  
Comments

North Dakota Geological Survey  
Fred Anderson, Geologist

FJA

60 PU-17-483 Filed: 4/12/2018 Pages: 1  
Exhibit 10 - Comments from ND Geological Survey



600 E

ONEOK Rockies Midstream, L.L.C.

Phone (701)328-8000 Fax (701)328-8010