



# 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)

April 2, 2018

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



Re: Andeavor Field Services, LLC – NGL Pipeline Siting Application Notice (PU-18-72)

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 April 2, 2018 was reviewed immediately the same day. We dropped in the approximate route of the proposed pipeline routes on our landslide base maps and compared the proposed routes 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 (i.e. north segment) may pass near areas in T. 149 N., R. 83 W. where localized landslide areas have been previously mapped. The proposed pipeline route (i.e. south segment) also appears to pass near areas in the southwestern portion of T. 140 N., R. 83 W. where some additional localized landslide areas have been mapped. There should be careful examination of route selection and construction practices in these potentially unstable areas and these areas should be avoided whenever possible.

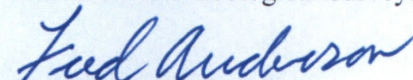
Downloadable Areas of Landslides maps and available detailed LiDAR elevation mapping and data products for the 1:24,000 and 1:100,000 scale quadrangles that encompass the proposed pipeline routes can be found on our website at:

<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

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47 PU-18-72 Filed: 5/14/2018 Pages: 1  
Exhibit 6 - ND Geological Survey Letter, April 2, 2018

Andeavor Field Services LLC