

**Vantage Pipeline US, LP
Tioga, ND to Canada Border
Construction Inspection Report**

November 26, 2013

Case No. PU-11-109

Prepared for:

State Of North Dakota



NORTH DAKOTA PUBLIC SERVICE COMMISSION

PUBLIC UTILITIES DIVISION

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Executive Summary

Keitu Engineers and Consultants (Keitu) performed a construction inspection of Vantage Pipeline US. LP 80 mile, 10-inch Ethane pipeline project in Williams and Divide County, ND for the purpose of ensuring that the facility authorized by the North Dakota Public Service Commission was constructed in compliance with the siting laws and rules and applicable Commission orders.

PSC Case Number: PU-11-109

Inspector: Nathan J. Gaffrey, PE

Date: 11/22/2013

Time: 9:00 AM

Temperature: 8 °F

Observations and Findings

At the time of the inspection, backfill of the pipeline trench has been refilled and compacted. The construction crews were now placing the topsoil, which had been separated out from the backfill soil, on the pipeline. Due to the freezing conditions, reseeding and replanting is going to be restarted as the conditions allow with completion anticipated in the spring of 2014 per David Cameron with KC Harvey Environmental. To date approximately 30 miles of the project has been reseeded. Projects of this type typically are subject to PSC stipulations to monitor revegetation and restoration by October 1st for 3 years following completion of construction. In other areas, if reseeding is still unsuccessful after 3 years, additional topsoil may be necessary for vegetation to colonize the area.

Throughout the project the construction crews were diligent in laying down matting where excessive rutting could occur. Near block valve 6 it was noticed that matting was still in place in order to prevent rutting in a high traffic area.

The pipeline was in the process of having the final sections hydro tested to 1,600 psi. per the pipeline field manager Cody Learmonth from Top Shelf Energy Services, LTD. This testing was scheduled to take place during the third week of November 2013. Due to the sensitivity of the testing instrumentation, it takes place only when the pipeline construction is not in operation. The vibration of the equipment can lead to erroneous results if it were to remain in operation during the testing.

There will be a post construction report and site visit completed in the spring of 2015 to further observe the revegetation that has taken place for the project.

Report Certification

I declare that, I have the specific qualifications based on education, training, and experience to assess a property of the nature, I believe to the best of my professional knowledge the contents of this report accurate represents the condition of this project.



Nathan J. Gaffrey, P.E.

Project Engineer

APPENDIX 1
CONSTRUCTION PICTURES



Photo 1 – Beginning of pipeline just north of the Tioga Hess Natural Gas Plant.



Photo 2 – Typical pipeline marker at road crossing.



Photo 3 – Replaced fenced and pipeline marker.



Photo 4 – Matting storage at contractor's laydown area.



Photo 5 – Piping storage at contractors’ laydown area.



Photo 6 – An example of trench shoring used during construction of the project.



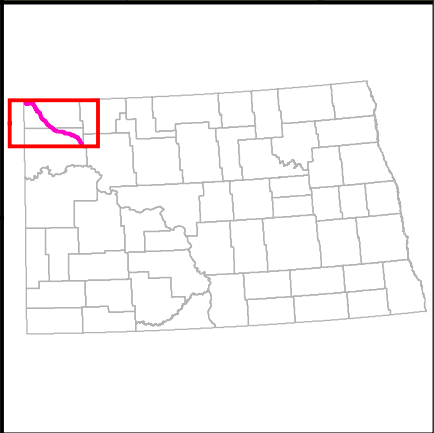
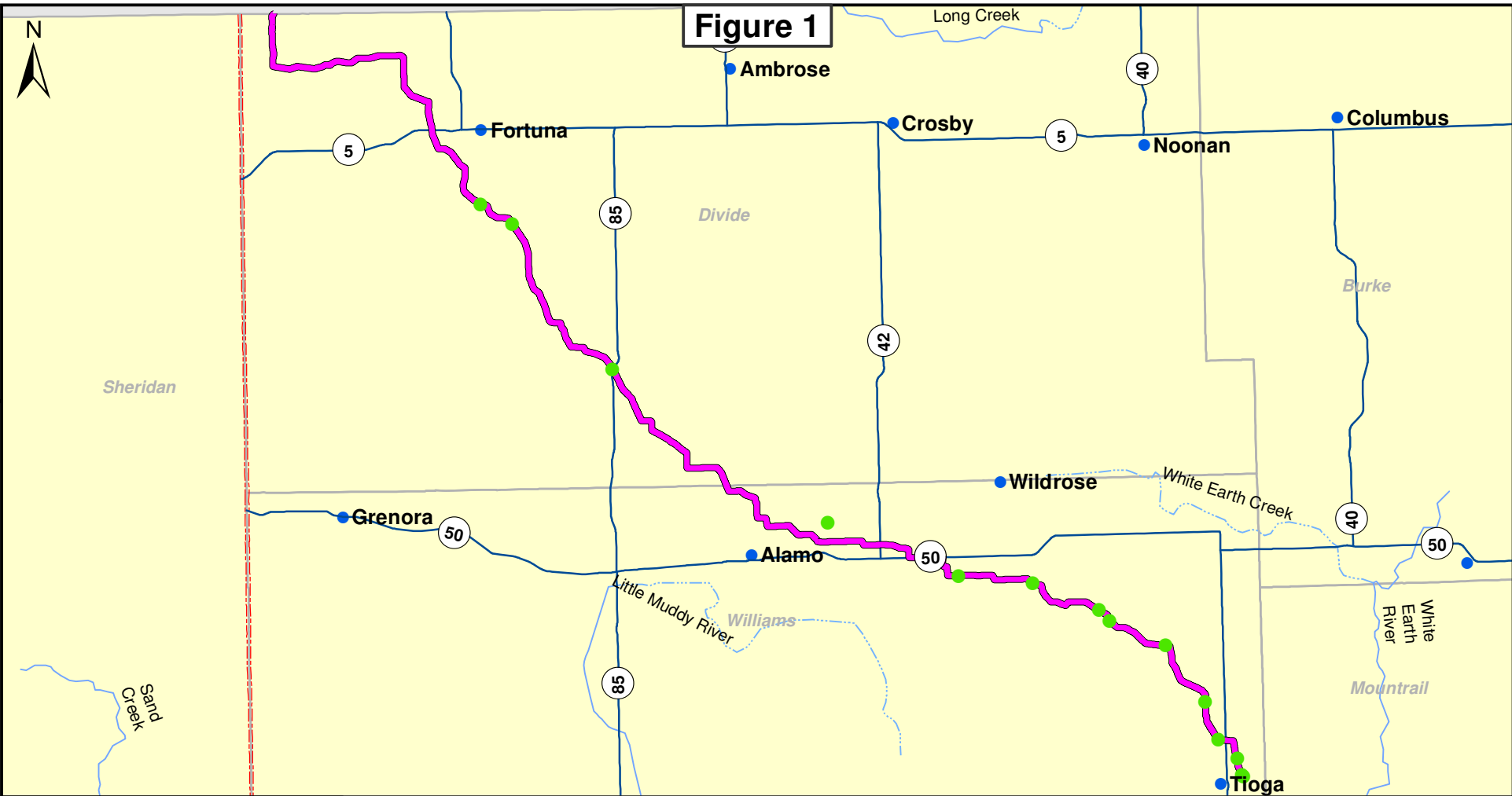
Photo 7 – Construction equipment replacing topsoil along the pipe route.



Photo 8 – Block valve #6 at pipeline crossing of ND Highway 85.

APPENDIX 2

PIPELINE ROUTE AND OBSERVATION POINTS MAP



ND PSC Case Number PU-11-109
Vantage Pipeline US LP
Natural Gas Liquid Pipeline

November 2013

Legend

- Observation Point
- Pipeline Route
- - - - - State Border

