

**LATE-FILED EXHIBIT NO. 11**

**STATE OF NORTH DAKOTA  
PUBLIC SERVICE COMMISSION**

**Hiland Crude, LLC  
New Town Expansion Project – Mountrail County  
Siting Application**

**Case No. PU-15-416**

**AFFIDAVIT OF ANDREW MCCRAW**

STATE OF COLORADO            )  
  ) ss.  
COUNTY OF EL PASO         )

Andrew McCraw, being first duly sworn upon oath, states and alleges as follows:

1. I am Director of Midstream Project Management for Kinder Morgan, Inc., which owns Hiland Crude, LLC (“Hiland Crude”). Hiland Crude proposes to construct additional facilities, own, and operate the New Town Expansion Project (“Project”), the subject of the above-captioned matter.

2. I was advised as to perjury, placed under oath, and testified on behalf of Hiland Crude at the September 17, 2015 public hearing on Hiland Crude’s Application for a Certificate of Corridor Compatibility and Route Permit (“Application”) for the Project.

3. In this Affidavit, I understand that I am still under oath and I am providing sworn testimony as part of the public hearing record, as authorized by and on behalf of Hiland Crude.

4. At the September 17, 2015 public hearing on Hiland Crude’s Application, Hiland Crude requested that the North Dakota Public Service Commission (“Commission”) issue a Certificate of Corridor Compatibility and a Route Permit designating the Project corridor and route as set forth in the Application.

5. During the public hearing on Hiland Crude's Application, Hiland Crude was granted the opportunity to submit a late-filed exhibit discussing the cause of a pinhole leak that occurred on an unrelated Hiland Crude gathering pipeline in Divide County.

6. The North Dakota Industrial Commission determined that the release at issue was the result of a pinhole, approximately 1/8" by 3/16" in diameter in the pipe.

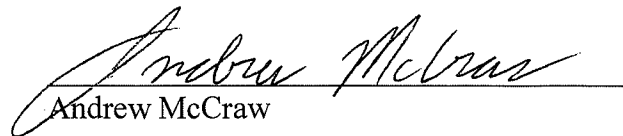
7. To determine the root cause of the pinhole, a portion of the pipe, which had been replaced, was sent to a lab for root cause determination.

8. After testing of the pipe sample, it was determined that the failure of the line pipe and the cause of the pinhole leak discussed at the hearing was the result of under-deposit corrosion. The area of corrosion was isolated to the area at the center of the remaining deposit ring.

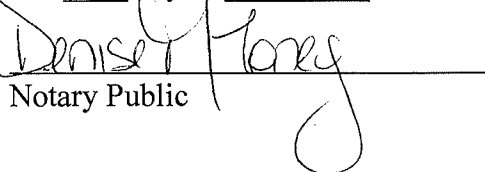
9. The evidence was consistent with microbial influenced corrosion by sulfate reducing bacteria, which are anaerobic and thrive in oxygen depleted areas under deposits of materials on the pipe wall.

10. The pitting wall loss appeared to be isolated, based on the pipe sample provided.

FURTHER AFFIANT SAYETH NOT.

  
Andrew McCraw

Subscribed and sworn to before me  
this 19<sup>th</sup> day of November, 2015.

  
Notary Public

