

Keene Oil Gathering System Conversion Project  
Hess  
*ND PSC Case No. PU-18-024*  
*Keitu Project #569-1281*

Post-Construction Inspection Report

*November 2019*



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Hess North Dakota Export Logistics LLC and Hess North Dakota Pipelines LLC  
Keene Oil Gathering System Conversion Project  
(McKenzie County, ND)  
Prepared by Keitu Engineers & Consultants, Inc.

## **Executive Summary**

The State of North Dakota, acting through its North Dakota Public Service Commission (NDPSC), Division of Public Utilities, has contracted Keitu Engineers & Consultants, Inc. (Keitu) to perform consulting services for post-construction siting inspections. This report addresses the Orders established by the NDPSC and issues established in File No. PU-18-024. The Keene Oil Gathering System Conversion Project (Project) is located in McKenzie County, ND. The Transmission line is owned and operated by Hess North Dakota Pipelines LLC and Hess North Dakota Export Logistics LLC (Hess). Construction for the Project began in May 2019 and was completed in October 2019. The purpose of the construction inspection was to ensure the Project was constructed in compliance with the siting laws, rules, and the applicable PSC Order for the Project. Prior to the construction inspection, Keitu reviewed all Project documents to identify any and all aspects requiring site verification.

The site was visually inspected on September 20, 2019 by Keitu staff. Overall, the project was very well-maintained and in good condition. It appeared to be constructed as planned with numerous efforts to minimize impacts.

Keitu recommends that the NDPSC requests the following from the company: 1) a weed management plan, 2) engineering drawings and GIS files for the completed transmission line, and 3) Tree & Shrub replacement survival monitoring for 3 years. The NDPSC will need to decide whether these recommendations are necessary to fulfill Project obligations.

## Introduction

The construction of the Keene Oil Gathering System Conversion Project (Project) was completed in September 2019. The Project is operated by Hess North Dakota. The Project results in the conversion of 19 miles of existing crude oil gathering pipeline and its associated facilities into a transmission facility. The Project is entirely located within McKenzie County, North Dakota. The mainline originates at the Hess' existing Hawkeye Oil Facility and extends in a southerly direction with connections to the existing Crestwood Arrow Facility and Dakota Access Pipeline Terminal. The Project is under the jurisdiction of the NDPSC, which issued its Findings of Fact, Conclusions of Law, and Order on Case No. PU-18-024 on May 29, 2018, granting a Certificate of Corridor Compatibility No. 204 and Route Permit No. 214 for the Project.

## Purpose and Scope of Inspection

The North Dakota Energy Conversion and Transmission Facility Act (North Dakota Century Code Chapter 49-22) authorizes the NDPSC to determine that the location, construction, and operation of jurisdictional energy conversion and transmission facilities will produce minimal adverse effects on the environment and welfare of the citizens of North Dakota. Construction inspections ensure the Project is constructed in compliance with siting laws, rules, and the applicable NDPSC Findings of Fact, Conclusions of Law, and Order (Order).

The NDPSC retained Keitu Engineers & Consultants, Inc. (Keitu) to complete a post-construction inspection of the Project. The inspection process included a review of the Application for Corridor Compatibility and Route Permit, Order, and other applicable documents to determine Project-specific siting and construction requirements; a site visit and inspection of facilities; documentation of compliance; and a report summarizing findings. This report includes, but is not limited to, site visit observations, documentation of compliance deficiencies, and a summary of issues that should be addressed for the Project to be considered complete and in full compliance.

## Methods

Keitu reviewed North Dakota siting laws and rules, the Application for Certificate of Corridor Compatibility and Route Permit (Application), and the Order for the Project to identify what Project-specific documentation was required for compliance. Keitu then reviewed Project documents in the NDPSC Online Case Search to identify those siting laws, rules, and Application and Order assertions that already had written verification, those that still required documentation, and those that required physical site verification.

Zach Peterson, Environmental Specialist, of Keitu visited the Project area on September 20, 2019. The site was visually inspected at the location of the newly installed booster pump and the new underground piping associated with it. The new booster pump was located in the SE ¼ of Section 7 of Township 151N, Range 95W in McKenzie County.

## Orders

The following section includes discussion of a list of components of the Project that were asserted in the Application and Order which could be documented during the post-construction inspection to verify compliance with siting laws, rules and the Order for the Project, via either written documentation or physical site verification. Included are detailed findings and observations from Keitu personnel involved in the post-construction inspection for the Project.

- 1. That a Certificate of Corridor Compatibility No. 204 is issued to Hess North Dakota Pipelines LLC and Hess North Dakota Export Logistics LLC designating a corridor for the construction, operation, and maintenance of approximately 19 miles of 10-inch and 16-inch pipeline existing in McKenzie County, North Dakota. For purposes of this Certificate, the designated corridor consists of a 250-foot-wide area centered on the designated route.**

A Certificate of Corridor Compatibility was issued by the NDPSC in May, 2018. Order #1 is complete.

- 2. That a Route Permit No. 214 is issued to Hess North Dakota Pipelines LLC and Hess North Dakota Export Logistics LLC designating a corridor for the construction, operation, and maintenance of approximately 19 miles of 10-inch and 16-inch pipeline existing in McKenzie County, North Dakota. For purposes of this Permit, the designated route is the route of the existing pipeline as depicted in Hearing Exhibit 12.**

A Route Permit was issued by the NDPSC in May, 2018. Order #2 is complete.

- 3. That the Certification relating to Order Provisions-Transmission Facility Siting-Gathering Line Conversion to Transmission Line with attached Tree and Shrub Mitigation Specifications executed April 5, 2018, is incorporated by reference and attached to this Order.**

Order #3 is complete.

- 4. That to the extent there are any conflicts or inconsistencies between Hess's application and the Certification, the Certification provisions control.**
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Order #4 is complete.

- 5. That prior to commencing construction of any portion of the proposed Project, Hess shall obtain all other necessary licenses and permits for construction of such portion, and shall provide copies to the Commission prior to construction of that portion of the project.**

According to documents available on the NDPSC Online Case Search, Hess has obtained all necessary licenses and permits for the Project. Order #5 is complete.

- 6. That if a spill by Hess requires notification to any other state or federal agency, Hess will also inform the Commission of such spill within 24 hours of occurrence by leaving a message at the Commission's Toll Free Number, with a follow-up email to the Commission's Executive Secretary.**

No notices of spills were found on the NDPSC database. Order #6 is complete.

- 7. That Hess is required to comply with all applicable laws, rules, and and/or regulations in the event it desires to construct another or a different energy conversion facility than was specified in the application within the site designated in this proceeding.**

Order #7 is complete.

## **Order Provisions- Transmission Facility Siting**

- 1. Company understands and agrees that any Certificate of Corridor Compatibility or Route Permit issued by the Commission will be subject to the conditions and criteria set forth in Chapter 49-22 of the North Dakota Century Code and Chapter 69-06-08 of the North Dakota Administrative Code, and that Company shall be responsible for compliance with this order and conditions and criteria set forth in the applicable laws and rules.**

On May 29, 2018 the NDPSC designated a route for Hess North Dakota Export Logistics LLC concerning the location of approximately 19 miles of 10-inch and 16-inch pipeline existing in McKenzie County, North Dakota. Hess proposed converting the existing pipeline from a crude oil gathering pipeline to a transmission pipeline capable of transporting 160,000 barrels per day of crude oil.

The certificate (Docket #61) was issued in accordance with the Order of the NDPSC dated May 29, 2018 in Case No. PU-18-024 and is subject to the conditions and

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limitations noted in the order. No issues of blatant non-compliance with this order and conditions and criteria set forth in the applicable laws and rules have been found during the post-construction inspection.

Order Provision #1 was followed.

**2. Company agrees to comply with the rules and regulations of all other agencies having jurisdiction over any phase of the transmission facility including all city, township, and county zoning regulations.**

State and Federal agencies are entitled to notice of Hess North Dakota Export Logistics LLC's Siting Application. According to the agency coordination in the Application (Docket #1), correspondence occurred with US Fish and Wildlife Department (USFWS), ND Game & Fish Department (NDGFD), ND Department of Trust Lands, ND Parks & Recreation Department, State Historical Society of North Dakota, ND State Water Commission, Western Area Water Supply Authority, McKenzie County Water Resource District, and McKenzie County Weed Control Board. The application had copies of the responses from these agencies.

The USFWS responded to the notification via telephone on April 29, 2016. The USFWS representative, Jessica Johnson, asked if the project had a federal nexus, which it does not. Johnson states that they do not generally respond to NDPSC projects unless the agency has a concern.

The NDGFD had no issues concerning the Project per an email dated November 30, 2017.

The ND Department of Trust Lands – Surface Management had no comments regarding the Project per an email dated November 15, 2017.

The North Dakota Parks and Recreation Department commented that their review of the biological conservation database did not find any occurrences of historical plant or animal species of concern or other significant ecological communities within the project area. This letter was dated April 9, 2019.

The North Dakota State Historic Preservation Office (NDSHPO) responded to a letter regarding the Hess Keene Oil Gathering System Conversion. The Class I and Class III Cultural Inventory reports were found acceptable per a letter dated November 9, 2017.

The ND State Water Commission submitted the following comments regarding the Project; if surface water or groundwater will be diverted for construction, a water permit will be required, no permits are required relative to the National Flood

Insurance Program based on the current effective Flood Insurance Rate Map and state minimum standards. This letter was issued December 4, 2017.

The Wester Area Water Supply supplied shapefiles for portions of their transmission line that may be relevant to their infrastructure located in Section 7 T151N R95W. They also noted there would be rural distribution waterlines in the regions designated in the provided letter. This letter was dated November 7, 2017.

McKenzie County Water Resource District was contacted July 6, 2017 via telephone in regards to the notification letter. Mr. Veeder, Vice Chairman, stated the District did not have any concerns.

The McKenzie County Weed Board was notified and supplied a response on April 2, 2018 requesting an attached document to be completed in order to approve the Weed Management Plan for the Project.

None of the agencies had any objection to the Project, but the McKenzie County Weed Board did request a Weed Management Plan for the Project. This was not found in the NDPSC records.

A Weed Management Plan was unable to be found in the NDPSC case records. The Weed Plan may have been excused since there was a limited amount of construction occurring in an existing ROW, but no record of deviation was found.

Order Provision #2 is incomplete.

- 3. Company agrees that it shall obtain all other necessary licenses and permits, and shall provide copies of all licenses and permits to the Commission prior to initiating operation the transmission facility that requires said license or permit.**

Hess North Dakota Export Logistics had complied in obtaining all necessary permits regarding the construction of the transmission facility. The NDPSC granted Hess a Certificate of Corridor Compatibility (#204) and a Route Permit (#214) on May 29, 2018.

Order Provision #3 was followed.

- 4. Company understands and agrees that any Certificate of Corridor Compatibility or Route Permit issued by the Commission is subject to suspension or revocation and may, in an appropriate and proper case, be suspended or revoked for failure to comply with the Commission's order, the conditions and criteria of the certificate or subsequent modification, or failure**



**to comply with the applicable statutes, rules, regulations, standards, and permits of other state or federal agencies.**

Hess North Dakota Export Logistics LLC has complied with the applicable statutes, rules, regulations, standards, and permits of other state or federal agencies to date. The NDPSC has not suspended or revoked for failure to comply with the NDPSC's order, the conditions and criteria of the certificate.

Order Provision #4 was followed.

- 5. Company agrees to maintain records that will demonstrate that it has complied with the requirements of the Commission's order issuing a Certificate of Corridor Compatibility or Route Permit, and that it will preserve these records for Commission inspection at any reasonable time upon reasonable notice.**

Hess North Dakota Export Logistics LLC has complied with providing the NDPSC with required records.

Order Provision #5 was followed.

- 6. Company understands and agrees that the authorizations granted by any Certificate of Corridor Compatibility or Route Permit issued by the Commission for the transmission facility are subject to modification by order of the Commission if deemed necessary to protect further the public or the environment.**

Should the NDPSC deem necessary in the future to modify the corridor certificate and route permit it can do so if deemed necessary to further protect the public or the environment. No modifications were made to the Certificate of Corridor Compatibility (No. 204) and Route Permit (No. 214).

Order Provision #6 was followed.

- 7. Company agrees to hold a construction conference prior to initiating operation of the facility as a transmission facility, which must include a Company representative, its construction supervisor, and a representative of Commission Staff, to ensure that Company fully understands the conditions set forth in the Commission's order.**

A preconstruction meeting was held on April 23, 2019 via conference call (Docket #75). The following personnel were included: Clay Anderson (Hess), Vicky Sund (Hess), Chela Demke (Hess), Dustin Adams (Minnesota Limited), Shawn Moe (River

Basin Contracting), Cameron Lackey (River Basin Contracting), Jaimee Antognazzi (Keitu), and Patrick Fahn (NDPSC).

The conference included a review of the Certification Relating to Order Provisions – Tree and Shrub Mitigation Specifications, weekly construction updates, and landowner requirements.

Order Provision #7 was followed.

**8. Company understands and agrees that all cultural resource mitigation plans must be submitted to the North Dakota State Historic Preservation Office and approved prior to initiating operation of the facility as a transmission facility.**

E3 Environmental, LLC (E3 Environmental) performed a Class I and Class III cultural resource inventory for the proposed Project. In May 2016 and October 2017, the Class I identified 55 previously completed investigations and documented 47 previously recorded cultural resources within the Corridor. Of the 47 resources, 29 were either unevaluated or potentially eligible for inclusion into the National Register of Historic Places. The Class III inventory, conducted in May, June, and August 2016 and in November of 2017, identified six previously recorded prehistoric sites and identified ten new resources, within the survey corridor. The conclusions are addition of booster pumps to the system will not affect these previously recorded resources. (Docket #33).

The North Dakota State Historic Preservation Office (NDSHPO) reviewed the NDSHPO REF.: 16-1800 NDPSC “Hess Corporation’s Subsidiaries: Hess North Dakota a Pipelines, LLC and Hess Export Logistics Class I and Class III Inventory of the Johnson’s Corner Merchant Capability Project” on September 30, 2016 (Docket #33). The NDSHPO concurred there has been acceptable effort to identify and avoid impacts to “Significant Sites,” provided the project remains as described and mapped in the report dated September 2016 (Docket #33).

Order Provision #8 was followed.

**9. Company agrees to inform the Commission and the Commission’s third-party construction inspector immediately prior to the Company initiating operation of the facility as a transmission facility.**

The NDPSC and NDPSC’s third party construction inspector were to be notified prior to initiating operation of the facility. A notification was sent September 12, 2018 anticipating a September 25, 2019 start date. The notification (Docket #93) was filed with the NDPSC on September 12, 2019.

Order Provision #9 was followed.

- 10. Company certifies that the pipeline has been buried to a minimum depth from the ground surface to the top of the pipe of 48 inches in range land, 48 inches for cultivated land, 48 inches at the bottom of the ditch for road crossings, and 72 inches across undeveloped section lines.**

On May 7, 2018 two documents were filed, with the NDPSC, stating the depth of cover on the original construction of the line. These documents state all areas of the line are buried to a minimum depth of 48 inches (Docket #51 and Docket #52).

Order Provision #10 was followed.

- 11. Company certifies that all topsoil, up to 12 inches, or topsoil to the depth of cultivation, whichever is greater, over and along trench areas where cuts were made, was stripped and segregated from the subsoil. Any area on which excavated subsoil was placed was also stripped of topsoil. Any area on which excavated subsoil was placed would also be stripped of topsoil. After backfilling was completed, any excess subsoil was placed over the excavation area, blending the grade into existing topography. Topsoil was replaced over areas from which it was stripped only after the subsoil was replaced.**

Site appeared adequately backfilled at the time of the post-construction inspection. Third party inspector was not required to be onsite during topsoil segregation, so therefore cannot certify segregation adequacy.

Order Provision #11 may have been followed but information is not available.

- 12. Company certifies that all buried facility crossings of graded roads were bored unless responsible governing agency permitted Company to open cut the road.**

The pipeline was a conversion and the only new construction was a booster station. Therefore this order is not applicable.

Order Provision #12 was followed.

- 13. Company certifies that staging areas or equipment were not located on land owned by a person other than Company unless otherwise negotiated with landowners.**

This project is a pipeline conversion with the addition of a booster station. A surface agreement (Docket #77) was located in the case file.

Order Provision #13 was followed.

**14. Company understands and agrees that if any cultural resource, paleontological site, archeological site, historical site, or grave site discovered during construction, was marked, preserved and protected from further disturbances until a professional examination could be made and a report of such examination was filed with the Commission and the State Historical Society and clearance to proceed was given by the North Dakota State Historic Preservation Office.**

E3 Environmental performed a Class I and Class III cultural resource inventory for the proposed project. The conclusions are that construction activity within the survey corridor will not affect any know cultural resources (Docket #1). The NDSHPO agreed with the conclusions from E3 Environmental provided the project remains as described and mapped in the report dated November 2017 (Docket #1).

No cultural resource, paleontological site, archeological site, historical site, or grave site was discovered during construction. This is based on review of the monthly construction progress reports and verification that no correspondence was identified in the NDPSC's file.

Order Provision #14 was followed.

**15. Company certifies that construction was suspended when weather conditions were such that construction activities would cause irreparable damage to roads or lands, unless adequate protection measures were taken by Company.**

Weather conditions were mentioned in the Progress report (Docket #94) filed on September 18, 2019.

No visible road damage was noted during the inspection.

Order Provision #15 was followed.

**16. Company certifies that upon completion of the construction of the facility, Company restored the area affected by the activities to as near as was practicable to the condition as it existed prior to the beginning of construction.**

Hess stated in the Route Permit Application (Docket #1) that all impacted land will be restored to pre-construction conditions and revegetated.

A reclamation and revegetation inspection after one year after the final seeding is not scheduled. The only soil disturbance occurred at the booster station which will

not be revegetated, and the short distance of underground piping connecting the booster pump with the existing block valves. The ground above the new piping had been reclaimed and in good condition at the time of the inspection

Order Provision #16 was followed.

**17. Company certifies that all pre-existing township and county roads and lanes used during construction were, or are being, repaired to a condition that is equal to or better than the condition prior to the construction of the transmission facility and accommodates their previous use, and that areas used as temporary roads or working areas during construction were, or are being, restored to their original condition.**

No visible road damage was noted during the inspection.

Order Provision #17 was followed.

**18. Company certifies that reclamation, fertilization, and reseeding was, or is being done according to the Natural Resources Conservation Service recommendations, unless otherwise specified by the landowner and approved by the Commission.**

A minimal amount of construction took place outside of existing facilities, any small amounts of disturbance appeared to be repaired during the inspection. The ground disturbed by the addition of the underground piping connecting the booster pump with the existing block valves had been reseeded at the time of the inspection.

Order Provision #18 was followed.

**19. Company understands and agrees that its obligation for reclamation and maintenance of the transmission facility right-of-way, transmission facility, associated facilities, fences and gates, drainage tile, and roadways will continue throughout the life of the transmission facility.**

A minimal amount of construction took place outside of existing facilities, any small amounts of disturbance appeared to be repaired during the inspection.

Order Provision #19 was followed

**20. Company agrees to comply with the Tree and Shrub Mitigation Specifications, attached.**

Per the Tree and Shrub Mitigation Plan (Docket #71) The NDPSC's Tree and Shrub Mitigation Specifications require the project to provide an inventory of type, location, and number of trees removed, replace trees and/or shrubs at a minimum of 2 to 1, inspect and report annually on tree/shrub survival rates for a minimum of three years, and achieve at least a 75% survival rate after 3 years. If a 75% survival rate is not achieved additional plantings are required.

The project was constructed as a gathering line and no records exist for trees and shrubs cleared during construction. Due to the quality of available aerial imagery this method could not be used to determine previously treed areas. E3 Environmental applied the U.S. Army Corps of Engineers Garrison Project's Standard Operating Procedure (SOP) #14 Vegetation Mitigation (SOP #14) methodology was applied to enumerate the number of replacement trees and shrubs required based upon the approximate acreage of trees/shrubs removed.

This method assumed 10 trees or 25 shrubs were removed per one-half acre of woody vegetation cleared. Hess will coordinate planting with landowners regarding tree/shrub replacement.

During the post-construction inspection, there was no noted tree removal at the booster station.

Order Provision #20 was followed.

**21. Company certifies that it has removed all waste that was a product of construction and has properly disposed of it. Company understands and agrees that it shall remove all waste that is a product of operation, restoration, and maintenance of the site, and properly dispose of it on a regular basis.**

No waste or improper disposal was noted during the inspection.

Order Provision #21 was followed

**22. Company certifies that it provided any necessary safety measures for traffic control or to restrict public access to the transmission facility during construction.**

Construction on this project was minimal and based on the fact that no landowner complaint documentation was found in Case File No. PU-18-024, Order Provision #22 is complete.

**23. Company understands and agrees that, prior to operating its facility as a transmission facility, it shall send a letter to each landowner with whom an**

**easement was executed for that location specifying the name and phone number of the company representative who is responsible for receiving and resolving landowner issues for the life of the easement.**

An occupied structure table and Alice Boyko's waiver (Docket #55) and waivers for Crestwood (Docket #41), Dakota Access Pipeline (Docket #42), and Eldo & Darleen Johnson (Docket #43) were located in the NDPSC case file. A letter sent to each landowner could not be located.

Order Provision # 23 may have been followed but letter could not be found.

**24. Company understands and agrees that it will field with Commission the name and phone number of the current company representative who is responsible for the receiving and resolving landowner issues for the transmission facility. The Company will update the information whenever there is a change to the current company representative for the life of all easements of the transmission facility.**

Order Provision #24 is complete.

**25. Upon request, Company agrees to provide the Commission with engineering design drawings of the transmission facility to initiating operation of the facility as a transmission facility.**

Engineering drawings could not be located in the NDPSC file of the Project.

Order Provision #25 may have been followed but information could not be located.

**26. Company understands and agrees that it shall advise the Commission as soon as reasonably possible of any extraordinary events which take place at the site of the transmission facility, including injuries to any person.**

No reports of extraordinary events were found in the progress reports or in a stand-alone report in the NDPSC file of the Project.

Order Provision #26 is complete.

**27. Company agrees to report to the Commission, as soon as reasonably possible, the presence in the permit area of any critical habitat or threatened or endangered species of which Company becomes aware and which were not previously reported to the Commission.**

No reports of the possible presence of critical habitat and/or threatened or endangered species were found in the NDPSC file of the Project.

Order Provision #27 is complete.

**28. Company understands and agrees that it shall inform the Commission in writing of any plans to modify the transmission facility or of any plans to modify the site plan for the transmission facility.**

Modifications to the project were not found in the NDPSC file of the Project. There was no notes regarding modifications in the progress reports.

Order Provision #28 is complete.

**29. Company agrees to provide the Commission with both an electronic and paper copy of the corridor approved by the Commission and the facility design specifications for the construction of the transmission facility showing the location of the transmission facility as built, and will provide this information within 3 months of commencement of operation of the facility as a transmission facility. Company also agrees to provide an electronic version of the corridor approved by the Commission and the facility design specifications of the transmission facility showing the location of the transmission facility as built that can be imported in the ERSI GIS mapping software within 3 months of commencement of operation of the facility as a transmission facility. This electronic map data must be referenced to the North Dakota coordinate system of 1983, North and/or South zones US Survey feet (NAD UTM Zone 13N or 14N feet (NAD 83), or geographic coordinate system (WGS) feet. The vertical data must be in the appropriate vertical datum of the coordinate system used. All submissions must specify the datum in which the data was developed.**

As-built drawings and ESRI GIS files could not be located in the NDPSC file of the Project. The order does state within 3 months of commencement of the project which would be late this year or early 2020.

Order Provision #25 may have been followed but information could not be located.

**30. Company shall notify the Commission as soon as reasonably possible if any damage, as defined by North Dakota Century Code Chapter 49-23, occurs to underground facilities during activities conducted under the certificate or permit issued in this proceeding. In the event of any damage to underground facilities, Company shall suspend activities in the vicinity of the damage until**



**compliance with One-Call Excavation Notice System requirements under North Dakota Century Code Chapter 49-23 has been determined.**

No records of damage to underground facilities or complaints concerning the transmission facility could be found.

Order Provision #30 is complete.

**31. Upon request, Company agrees to provide the Commission with engineering design drawings of the transmission facility prior to construction.**

Drawings of the transmission facility prior to construction were provided to the NDPSC in the Application for Certificate of Corridor Compatibility and Route Permit (Docket #1)

Order Provision #31 is complete.

## **Conclusions**

Overall, the Project appeared to be constructed as designed with minimal impacts to the surrounding natural and human environment. The Project site was in good condition and well maintained.

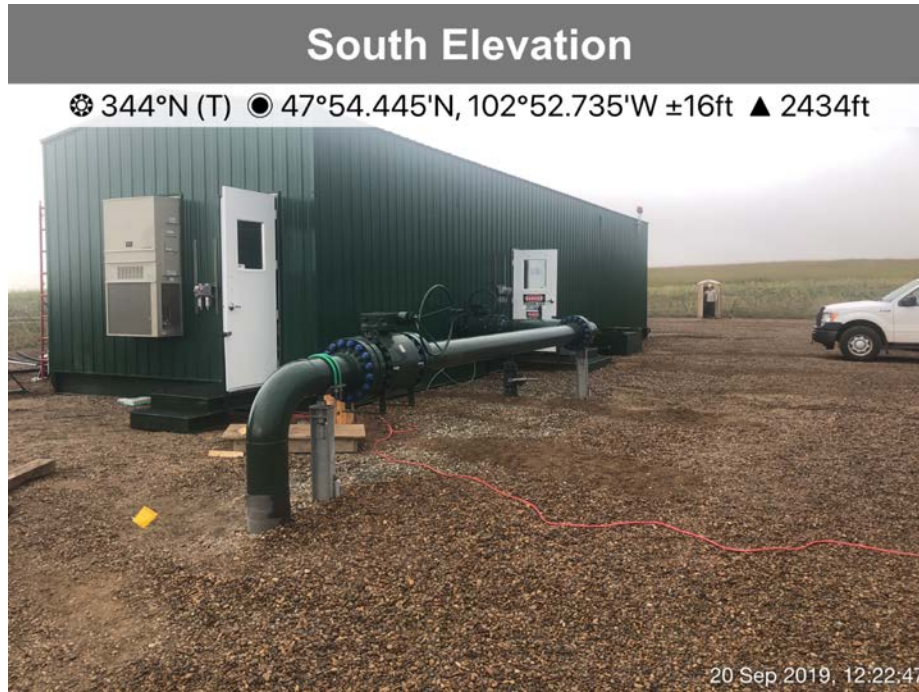
The project has been constructed in compliance with the siting laws and rules and applicable NDPSC orders with exception of the items noted within the body of the report. I declare that, I have the specific qualifications based on education, training, and experience to assess a project of this nature.

Sincerely,

Jaimee Antognazzi  
Operations Manager

## **Appendix A: Site Photos**

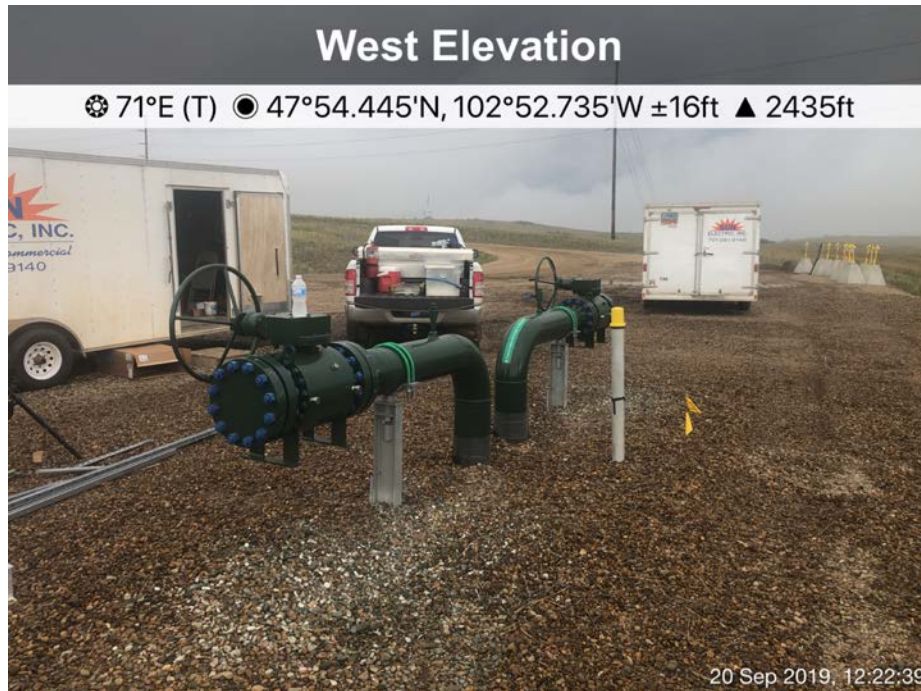
**Photo 1** – Newly Constructed Pump Station



**Photo 2** – Underground Piping to Above Ground Valves



**Photo 3** – Above Ground Piping near Pump Station



**Photo 4 - Inside of Pump Building**



**Photo 5 - Reseeded Vegetation and BMPs**



**Photo 6** – Above Ground Valves with Pump Station in Background



### Site Location Map

