

As-Built Inspection Report

12" Cherry Creek Lateral Pipeline Conversion
ONEOK Rockies Midstream, L.L.C.

ND PSC Case No. PU-17-483

Prepared for:

North Dakota Public Service Commission
Public Utilities Division
State Capitol
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Table of Contents

EXECUTIVE SUMMARY	1
INTRODUCTION	2
PURPOSE AND SCOPE OF INSPECTION	2
ORDERS	3
CERTIFICATION	5
CONCLUSIONS.....	10
MANAGEMENT REVIEW.....	11

Executive Summary

The State of North Dakota, acting through its North Dakota Public Service Commission (Commission), Division of Public Utilities, has contracted Keitu Engineers & Consultants, Inc. (Keitu) to perform consulting services for an As-Built Siting Inspection. This report addresses the Orders established by the Commission and issues established in Case No. PU-17-483.

The 12" Cherry Creek Lateral Pipeline Conversion Project (Project) is located in McKenzie and Williams Counties, North Dakota. The Project converted ONEOK's existing Stateline to Rawson 12" Pipeline and a portion of its Cherry Creek to Rawson Pipeline, both natural gas gathering pipelines, into an NGL transmission pipeline. The pipeline originates at ONEOK's Lonesome Creek Plant and terminates at ONEOK's Stateline Plant where it will deliver into OBP's Bakken Pipeline. Construction for the Project began in March 2018 and was completed in August 2018. The purpose of the As-Built Inspection was to ensure the Project was constructed in compliance with the siting laws, rules, and the applicable Commission 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 October 15, 2018 by Keitu staff. The Project was well-maintained, secured, and in good condition. During the As-Built Inspection, the areas appeared to have been properly restored. Overall, the Project appeared to be constructed as planned with numerous efforts to minimize impacts and to stay in compliance with the siting laws, siting rules, and Commission Orders.

Introduction

The Project was approved and constructed in 2018 and is operated by ONEOK Rockies Midstream, L.L.C. (ONEOK). The Project includes approximately 45 miles of 12 inch diameter pipeline which was converted from a natural gas gathering pipeline to a natural gas liquids (NGL) transmission pipeline and the installation of remote actuators at two existing block valves north and south of the Missouri River in McKenzie and Williams Counties. The Project is under the jurisdiction of the North Dakota Public Service Commission (Commission), which issued its Order Amending Certificate and Permit for Case No. PU-17-483 on April 30, 2018.

Purpose and Scope of Inspection

The North Dakota Energy Conversion and Transmission Facility Act (North Dakota Century Code Chapter 49-22) authorizes the Public Service Commission 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 Commission Order Amending Certificate and Permit (Order).

The Commission retained Keitu Engineers & Consultants, Inc. (Keitu) to complete an As-Built Construction Inspection of the Project. The inspection process included a review of the Consolidated Application for Certificate of Corridor Compatibility and Route Permit (Application), Order, Certification Relating to Order Provisions (Certification), 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, Certification, and the Order for the Project to identify what Project-specific documentation was required for compliance. Keitu then reviewed Project documents in the PSC 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.

Keitu Staff visited the Project area on October 15, 2018 to visually inspect the site. Digital photographs were taken showing typical Project infrastructure and documenting any problem areas (starting page 12). The Project was in operation at the time of visit.

Orders

The following section includes discussion of a list of components of the Project that were asserted in the Order which could be documented during the As-Built 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 As-Built Inspection for the Project.

- 1. ONEOK Rockies Midstream, L.L.C.'s December 14, 2017 application for a waiver of procedures and time schedules is granted.**

In a January 31, 2018 motion (Docket #21), Patrick Fahn moved the Commission to deem the application for a certificate of corridor compatibility and a route permit complete and issue a Notice of Filings and Public Hearing in the request of ONEOK Rockies Midstream, L.L.C., Cherry Creek Pipeline - McKenzie & Williams Counties, Siting Application, Case No. PU-17-483.

Order #1 is complete.

- 2. Certificate of Corridor Compatibility No. 203 is issued to ONEOK Rockies Midstream, L.L.C. designating a corridor for the construction, operation, and maintenance of approximately 45 miles of 12-inch diameter natural gas liquids pipeline and associated facilities in Williams and McKenzie Counties, North Dakota. For purposes of this Certificate, the designated corridor is a 150-foot-wide area centered on the pipeline, with the exception that a 50-foot-wide area centered on the pipeline is designated for the areas identified in Late-Filed Exhibit 21.**

On April 30, 2018 the Commission designated a transmission facility corridor for ONEOK Rockies Midstream, L.L.C. for approximately 45 miles of 12-inch diameter pipeline and associated facilities in Williams and McKenzie Counties, North Dakota, for the transportation of natural gas liquids. The certificate (Docket #80), was issued in accordance with the Order of the Commission in Case No. PU-17-483 and was subject to the conditions and limitations noted in the Order. "Late-Filed Exhibit 21" can be viewed in Docket #76.

Order #2 is complete.

- 3. Route Permit No. 213 is issued to ONEOK Rockies Midstream, L.L.C. designating a route for the construction, operation, and maintenance of approximately 45 miles of 12-inch diameter natural gas liquids pipeline and associated facilities in Williams and McKenzie Counties, North Dakota. For purposes of this Permit, the designated route is identified in Hearing Exhibit 15.**

On April 30, 2018 the Commission designated a transmission facility route for ONEOK Rockies Midstream, L.L.C. for the construction, operation, and maintenance of approximately 45 miles of 12-inch diameter natural gas liquids pipeline and associated facilities in Williams and McKenzie

counties. The permit (Docket #49) was issued in accordance with the Order of the Commission in Case No. PU-17-483 and was subject to the conditions and limitations noted in the Order. "Hearing Exhibit 15" can be viewed in Docket #65.

Order #3 was followed.

- 4. The Certification Relating to Order Provisions - Transmission Facility Siting - Gathering Line Conversion to Transmission Line with attached Tree and Shrub Mitigation Specifications executed April 11, 2018, is incorporated by reference and attached to this Order.**

Craig A. Forsander of ONEOK Rockies Midstream, L.L.C. signed the Certification Relating to Order Provisions – Transmission Facility Siting - Gathering Line Conversion to Transmission Line with attached Tree and Shrub Mitigation Specifications (Docket #52), binding ONEOK to requirements set forth by the Commission in its Order.

Order #4 was followed.

- 5. To the extent there are any conflicts or inconsistencies between ONEOK's application and the Certification, the Certification provisions control.**

Order #5 was followed.

- 6. Prior to commencing construction of any portion of the proposed Project, ONEOK 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.**

ONEOK Rockies Midstream, L.L.C provided a table of permits required for the project and their status (Docket #12), at the request of the Commission (Docket #3).

Order #6 was followed.

- 7. Prior to operating the Project as a transmission line, ONEOK shall obtain any necessary permits from the USAGE and the North Dakota State Water Commission, and any necessary licenses.**

Order #7 was followed.

- 8. If a spill by ONEOK requires notification to any other state or federal agency, ONEOK 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.**

A review of the project files did not indicate that there was a spill event by ONEOK during construction.

Order #8 was followed.

- 9. ONEOK is required to comply with all applicable laws, rules, and/or regulations in the event it desires to construct another or a different transmission pipeline facility than was specified in the consolidated application within the corridor designated in this proceeding.**

A review of the project files did not indicate that any other authorizations granted by Certificate of Corridor Compatibility for a transmission facility within the existing corridor were modified by the Commission to date, other than those originally included in the Route Permit or Site Certificate.

Order #9 was followed.

Certification

The following section includes discussion of relevant items included in the Certification attached by reference to original Order (Docket #80 in Case No. PU-17-483). All certification points relevant to the As-Built Inspection Report are included.

- 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 49-22.1 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 April 30, 2018 the Commission designated a corridor for ONEOK Rockies Midstream, L.L.C. for the construction, operation and maintenance of the pipeline and associated facilities in Williams and McKenzie Counties, ND. The certificate (Docket #80) was issued in accordance with the Order of the Commission dated April 30, 2018 in Case No. PU-17-483 and was subject to the conditions and limitations noted in the order.

Certification Point #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.**

On December 14, 2017, Wade Mann provided the Commission with a Consolidated Application for Certificate of Corridor Compatibility and Route Permit, and an Application for Waiver or Reduction of Procedures and Time Schedules as prepared by Merjent, Inc. (Docket #1). Within the report, numerous State and Federal agencies including; but not limited to, State Historical Society of North Dakota, North Dakota Game and Fish Department, North Dakota State Water Commission, and the U.S. Fish and Wildlife Service were contacted.

Certification Point #2 was followed.

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

Company has complied with the applicable statutes, rules, regulations, standards, and permits of other state or federal agencies to date.

Certification Point #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.**

Company has complied with the applicable statutes, rules, regulations, standards, and permits of other state or federal agencies to date. The Company's Certificate of Corridor Compatibility or Route Permit was not found to have been suspended or revoked for failure to comply with the Commission's order.

Certification Point #4 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 Commission 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. 203) and Route Permit (No. 213).

Certification Point #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.**

Based on a review of the documents filed for Case #: PU-17-483, no construction conference was held with either the third-party inspector or the Commission.

Certification Point #7 was not completed.

- 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 initiating operation of the facility as a transmission facility.**

Merjent, Inc. and Metcalf Archaeological Consultants LLC (Metcalf) performed a Class I and Class III cultural resource inventory for the proposed Project in McKenzie and Williams Counties. The conclusions are that construction activity within the survey corridor will not affect any known cultural resources (Docket #1).

The North Dakota State Historic Preservation Office (ND SHPO) reviewed the NDSHPO Ref: 18-0204 ND Public Service Commission (PSC) "Mergent ONEOK Pipeline Conversion: A Class III Cultural Resource Inventory in McKenzie and Williams Counties, North Dakota," on December 12, 2017 (Docket #32). The ND SHPO 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 October 2017 (Docket #1).

Certification Point #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.**

ONEOK Rockies Midstream, L.L.C. filed with the Commission on December 14, 2017 for the operation of approximately 45 miles of 12-inch diameter pipeline and associated facilities for the transportation of natural gas liquids (Docket #1). The Commission issued a Certificate of Corridor Compatibility No. 203 and Route Permit No. 213 to ONEOK Rockies Midstream, L.L.C. on April 30, 2018 (Docket #80).

Based on a review of the documents filed for Case #: PU-17-483, no notice of initiating operation was provided to either the third-party inspector or the Commission.

Certification Point #9 was not completed.

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

Merjent, Inc. and Metcalf Archaeological Consultants LLC (Metcalf) performed a Class I and Class III cultural resource inventory for the proposed Project in McKenzie and Williams Counties. The conclusions are that construction activity within the survey corridor will not affect any known cultural resources (Docket #1). The ND SHPO agreed with the conclusions from Merjent and Metcalf provided the project remains as described and mapped in the report dated October 2017 (Docket #32).

No cultural resource, paleontological site, archeological site, historical site, or grave site was discovered during construction. This is based on verification that no correspondence was identified in the Commission’s file.

Certification Point #14 was followed.

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

During the As-Built inspection, ONEOK company representative Josh Johnson indicated that no trees or shrubs will be removed.

Certification Point #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. To the extent it is discovered that this has not occurred for the existing pipeline, Company will comply with this provision.

From the as-built construction inspection, pipeline route was free of construction debris.

Certification Point #21 was followed.

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.

Landowner waivers are located in Appendix E in the Certificate of Corridor Compatibility Application (Docket #1) and in Remaining Landowner Waivers and Summary Table (Docket #20). Tom Giltner and Alyssa Ruffie with ONEOK Rockies Midstream, L.L.C. will be the contacts for receiving and resolving landowners' issues for the life of the easement.

Certification Point #23 was followed.

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

Based on the landowner waivers located in Appendix E of the Certificate of Corridor Compatibility Application (Docket #1) and in Remaining Landowner Waivers and Summary Table (Docket #20), it is indicated that Tom Giltner and Alyssa Ruffie will be the contacts for landowners.

Certification Point #24 was followed.

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

Construction plans and engineering drawings were supplied to the Commission in the Consolidated Application for Corridor Compatibility and Route Permit in Appendix A (Docket #1).

Certification Point #25 was followed.

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.

A review of the Commission's files indicate no extraordinary events took place on site to date.

Certification Point #26 was followed; however the Commission has the option of requesting the documentation from the Company.

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 critical habitat or threatened or endangered species were discovered during construction.

Certification Point #27 was followed.

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.

The Company did not request any modifications to the Project.

Certification Point #28 was followed.

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.

Based on the Commission’s project files, there is no documentation that damage occurred to underground facilities during construction.

Certification Point #30 was followed.

31. When applicable, Company may submit the field studies from the original application for the corridor and route provided they cover the adjustment area.

No route adjustments were made during construction of the pipeline.

Certification Point #31 was followed.

Conclusions

Overall, the Project appeared to be constructed as designed with minimal impacts to the surrounding environment. The Project site was in good condition, well maintained, and appeared to be constructed in compliance with the siting laws, siting rules, and applicable Commission Orders.

Certification Points #7 and #9 are deemed incomplete because there was no evidence found, in the case file, verifying these two items were completed. Both items #7 and #9 required initiating a conference with the PSC and/or their 3rd party contractor prior to the start of operation.

Management Review

The services performed by Keitu and its staff for this project have been conducted in a manner consistent with the degree of care and technical skill appropriately exercised by professionals currently practicing in this area under similar time and budget constraints.

Recommendations and findings contained in this report represent our professional judgment and are based upon available information and technically accepted practices at the present time and location. Other than this, no warranty is implied or expressed.



Jaimee Antognazzi, Operations Manager

11/6/18

Date

Report Photo #1: Typical ROW Conditions



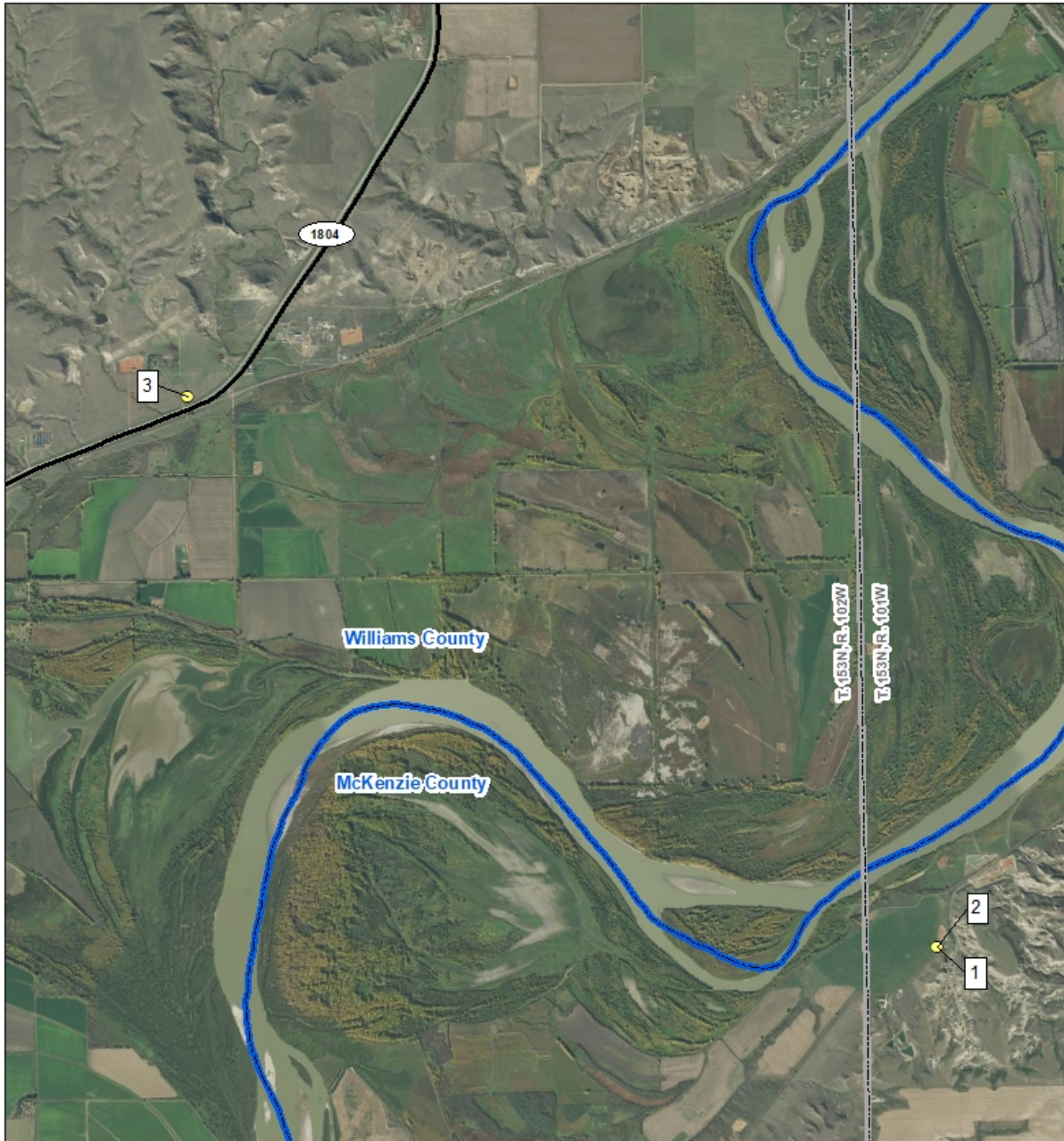
Report Photo #2: South River Valve Site



Report Photo #3: North River Valve Site



Project Map:



12" Cherry Creek Lateral Pipeline Conversion	
Photo Location	
Highway	
Township/Range Boundary	
County Boundary	

**ND PSC Case No. PU-17-483
Williams and McKenzie Counties,
North Dakota**