

July 11, 2024

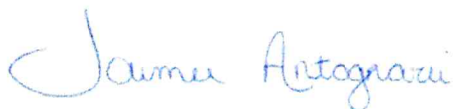
Executive Secretary
North Dakota Public Service Commission
600 East Boulevard Ave – Dept. 408
Bismarck, ND 58505-0480

Reclamation & Revegetation Inspection Report PU-22-141

Please find enclosed two hardcopies of the Reclamation & Revegetation Inspection for PU-22-141. This report completes the last task required under our contract PU-870-22 for this project.

If you have questions, please contact Jaimee Antognazzi at 701-290-6629 or via email at jantognazzi@keitu.com

Sincerely,



Jaimee Antognazzi
Operations Manager

56 **PU-22-141** Filed: 7/22/2024 Pages: 12
Reclamation and Revegetation Inspection Report

Keitu Engineers & Consultants, Inc.

Jaimee Antognazzi, CSP

Enclosures: Reclamation Inspection Report PU-22-141 (2 hardcopies)

Reclamation and Revegetation Inspection Report

Continental Resources, Inc.

8-inch NG Buddy Domindgo Pipeline

Williams County, North Dakota

ND PSC Case No. PU-22-141

Prepared for:

North Dakota Public Service Commission
Public Utilities Division
State Capitol
600 East Boulevard – Dept. 408
Bismarck, ND 58505-0480



July 2024

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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-22-141.

The Continental 8-inch steel natural gas pipeline (Project) is approximately 3.1 miles long and transports natural gas from an existing natural gas transmission line to Continental's Buddy Domindgo well pad. The gas will be compressed and injected downhole for enhanced oil recovery purposes. The Project is located in Williams County, North Dakota.

The Project Route consisting of a 150-foot-wide right-of-way (ROW) encompasses approximately 56.4 acres. The Project connected the East Mon-Dak WBI Energy Transmission Line to the Buddy Domindgo Well Pad.

The purpose of the Reclamation and Revegetation Inspection is to ensure the Project was constructed in compliance with the siting laws, rules, and the applicable Commission Order for the Project. Prior to the inspection, Keitu reviewed all Project-related documents necessary to verify reclamation and revegetation aspects during the site visit.

The site was visually inspected on July 2, 2024 by Kathleen Spilman, P.E. of the Keitu staff. At the time of the visit, the Project area was well-maintained, secured, and in good condition and is as near as practical to pre-construction surface topography conditions. All areas were reseeded with suitable plants for sufficient surface cover. The area appeared to be consistent with pre-construction conditions.

No deficiencies were noted. No additional follow-up activities are recommended.

Introduction

The Project was approved in July 6, 2022 and construction began in August, 2022. The Project is operated by Continental Resources, Inc. The project consists of approximately 3.1 miles of an 8-inch steel transmission pipeline in Williams County, North Dakota

The pipeline was constructed using 8-inch nominal steel. While the majority of the line consists of a standard wall thickness is 0.250-inch, the road crossing and related bore pipe were installed using a thicker 0.322-inch wall pipe. The outside diameter is 8.625-inch. Normal operating pressure is 450-pounds per square inch (psi). Normal throughput is approximately 20 million standard cubic feet per day (MMSCFD).

The Project is under the jurisdiction of the North Dakota Public Service Commission, which issued its Route Permit No. 238 and Certificate of Corridor Compatibility No. 228 for Case No. PU-22-241 on July 6, 2022.

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 a location, construction, and operation of jurisdictional energy conversion and transmission facilities to produce minimal adverse effects on the environment and welfare of the citizens of North Dakota. Field 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 a Reclamation and Revegetation 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 site condition.

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.

Kathleen Spilman, P.E. of the Keitu staff visited the Project area on July 2, 2024 to visually inspect the site. Digital photographs were taken showing typical conditions. The Project was reportedly in operation at the time of visit.

As-Built Inspection Follow-Up

An “As-Built” inspection was conducted on March 10, 2023 by Keitu Staff. During this inspection it was deemed by Keitu staff that the Project was constructed in compliance with the siting laws, siting rules, and applicable Commission Orders.

It was noted that that time several areas where the pipeline was constructed encroached within 20 feet of an unnamed creek and/or wetland and no vegetative cover had been established on the ROW soil surface. Suitable erosion control/stormwater protection features were not apparent in these areas adjacent to open water.

One area of the pipeline ROW near the south end / natural gas tie-in location had an approximate 50-foot-long area of subsidence.

Otherwise, 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.

Observations

At the time of the reclamation and revegetation inspection site visit on July 2, 2024, the Project area was well-maintained, with well vegetated surface soils and topography restored as near as practical to pre-construction conditions.

Vegetative cover had been well-established along the entire length of the ROW typically with planted wheat, canola or alfalfa crop. No erosion control devices remained. The area of prior surface subsidence appeared to have been corrected.

Pipeline markers and cathodic protection test stations were also noted along the route. Barbed-wire fences were intact. No damage to existing roads was apparent.

Photographs depicting conditions in several areas are provided for reference.

Conclusion

Overall, the Project appeared to be constructed minimal impacts to the surrounding environment. The Project site is in good condition. Ground vegetative cover density was at pre-construction conditions.

No deficiencies were noted. No additional follow-up activities are recommended.

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.



7/10/2024

Jaimee Antognazzi, Operations Manager

Date

Report Photo #1: South End of ROW with Soil Subsidence Addressed & Crop Cover Apparent



Report Photo #2: Mid Portion of ROW Adjacent to Wetlands with Established Vegetation



Report Photo #3: Northern Portion of Pipeline ROW with Revegetation Apparent



Report Photo #4: Northern Portion of Pipeline ROW with Revegetation Apparent



Report Photo #5: North Portion of Pipeline ROW with Revegetation Apparent



Report Photo #6: North Portion of Pipeline ROW with Revegetation Apparent



Report Photo #7: North Portion of Pipeline ROW with Revegetation Apparent



Report Photo #8: North Portion of the Project Area



Report Photo Map:

