



Bridger Pipeline LLC

8-inch 2.4-mile Crude Oil Pipeline– McKenzie County

Case No. PU-20-430

Reclamation and Revegetation Inspection Report



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May 20, 2024

RE: Case No. PU-20-430
Bridger Pipeline LLC
8-inch 2.4-mile Crude Oil Pipeline –
Mckenzie County
Reclamation and Revegetation Inspection
Report

Mr. Victor Schock
Public Utility Analyst
North Dakota Public Service Commission
600 East Boulevard Avenue, Dept. 408
Bismarck, ND 58505-0480

Dear Mr. Schock:

Attached is the Reclamation and Revegetation Inspection Report for the above referenced project. This report includes the following:

1. Executive Summary
2. Inspection Report
3. Appendix A – Photo Location Map
4. Appendix B - Photographs

Sincerely,

A handwritten signature in blue ink that reads "Matthew Schaible".

Matthew Schaible, PE
Short Elliott Hendrickson Inc.
905 Tacoma Ave., Suite 2
Bismarck, ND 58504

Engineers | Architects | Planners | Scientists

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EXECUTIVE SUMMARY

Date: 5/16/2024

Project: 8-inch 2.4-mile Crude Oil Pipeline - Mckenzie County

Reclamation and Revegetation site visit included visual inspection of Bridger Pipeline LLC's means and methods in the restoration of wild land and crop land vegetation. Inspector was onsite to document existing conditions throughout the area of disturbance.

Inspection found that the majority of the disturbed areas were reclaimed and restored and showed evidence of proper vegetative growth matching local native species of vegetation. There were areas of concern (mentioned below) that may need addressed.

Many areas of the route were in active agricultural cultivation and/or plantings, or show evidence of prior cultivation and plantings for agricultural use. These areas of reclamation showed evidence of matching the surrounding areas outside disturbed limits.

Issues needing remediation: Several spots of excessive bare soil, shown in P9, P11, and P16.

Other than the three spots mentioned above, the ROW on the 8-inch 2.4-mile Crude Oil Pipeline from Bridger Pipeline, LLC is in compliance with NDPSC siting rules, siting laws and regulations.

Inspector's Signature



INSPECTOR'S DIARY

Project: 8-inch 2.4-mile Crude Oil Pipeline - Mckenzie County		Contractor: Bridger Pipeline LLC	
Date: 5/16/24	Day: Thursday		Subcontractor:
Weather: Mostly Sunny, winds 5-10 mph		Temp: 72 F	Inspector: Dalton Bruce
Work Activities: *No work took place, job is known as complete and pipeline is known as operational.			
Labor Force: None			
Contractor Correspondence: * Inspector was present on a call with Tom Litman to discuss the inspection date, and was directed to site correspondent Deidre. Further text correspondence with Deidre led to an agreed upon inspection date. Bridger was aware and welcoming to the inspection taking place. * Inspector met on-site with Deidre from Bridger Pipeline LLC to discuss the day's activities and discuss how best to access the ROW. It was decided that Deidre and the inspector would take a side by side offroad vehicle for most of the ROW. * Inspection officially began at 9:00am CDT.			
Other Remarks: * Inspector was informed that along one section of ROW, another company had been working and had ripped up some of the ROW. Bridger Pipeline LLC is not responsible for fixing this section, as they did not disturb the area.			

Inspector's Signature



INSPECTOR'S DIARY

Date: 5/16/24

Project: 8-inch 2.4-mile Crude Oil Pipeline - Mckenzie County Contractor or Sub: Bridger Pipeline LLC

Work Performed & Location:

Inspector met up with Deidre (known as Deedee going forward) from Bridger Pipeline LLC at approximately 9am. Inspector donned proper PPE, including hi-vis vest, hi-vis hat, steel toe boots, and bug spray. Deedee offered the use of a side-by-side to expedite the ROW inspection process. Work included walking/driving the ROW and checking plant cover/crop land conditions on, and on the edges of the ROW.

One section along the ROW had been rutted and disturbed by Mckenzie Electric for a different project. This can be seen in P7 and was not a result of this project.

There were several sections where a bare patch of soil was noticed. Includes P9, 11 & 16. These may need further reclamation efforts.

There was a large section of ROW that had little vegetative cover, and numerous hoof prints were present, as was the landowner's cattle herd. This land was back to being used as intended for landowner's purposes (ranching). See P23 & 24.

Areas of vegetative cover appeared to be adequately re-vegetated to match local native plant species and density.

In areas of land use for agricultural purposes, there was evidence of ongoing cultivation such as pictures P3-P9, and P14-P15 show evidence of. These areas were mostly barren of vegetative cover as could be expected for cultivated agricultural purposes.

CONTRACTOR EQUIPMENT:
Bridger Pipeline LLC: Side by Side off road vehicle.

Inspector's Signature



INSPECTOR'S DIARY

Date: 5/16/24

Project: 8-inch 2.4-mile Crude Oil Pipeline - Mckenzie County Contractor or Sub: Bridger Pipeline LLC

Photo Description:

Photo Name:

Description:

- P1 - General Site Photos/Revegetation & Land Reclamation
- P2 - General Site Photos/Revegetation & Land Reclamation
- P3 - General Site Photos/Revegetation & Land Reclamation
- P4 - General Site Photos/Revegetation & Land Reclamation
- P5 - General Site Photos/Revegetation & Land Reclamation
- P6 - General Site Photos/Revegetation & Land Reclamation
- P7 - General Site Photos/Revegetation & Land Reclamation
- P8 - General Site Photos/Revegetation & Land Reclamation
- P9 - General Site Photos/Revegetation & Land Reclamation
- P10 - General Site Photos/Revegetation & Land Reclamation
- P11 - General Site Photos/Revegetation & Land Reclamation
- P12 - General Site Photos/Revegetation & Land Reclamation
- P13 - General Site Photos/Revegetation & Land Reclamation
- P14 - General Site Photos/Revegetation & Land Reclamation
- P15 - General Site Photos/Revegetation & Land Reclamation
- P16 - General Site Photos/Revegetation & Land Reclamation
- P17 - General Site Photos/Revegetation & Land Reclamation
- P18 - General Site Photos/Revegetation & Land Reclamation
- P19 - General Site Photos/Revegetation & Land Reclamation
- P20 - General Site Photos/Revegetation & Land Reclamation
- P21 - General Site Photos/Revegetation & Land Reclamation
- P22 - General Site Photos/Revegetation & Land Reclamation
- P23 - General Site Photos/Revegetation & Land Reclamation
- P24 - General Site Photos/Revegetation & Land Reclamation
- P25 - General Site Photos/Revegetation & Land Reclamation
- P26 - General Site Photos/Revegetation & Land Reclamation
- P27 - General Site Photos/Revegetation & Land Reclamation
- P28 - General Site Photos/Revegetation & Land Reclamation

*See attached Photo Layout Map with location of each photo (P1-P28), and attached pages of photo's

Inspector's Signature



INSPECTOR'S DIARY

Date: 5/16/2024

Project: 8-inch 2.4-mile Crude Oil Pipeline - Mckenzie County Contractor or Sub: Bridger Pipeline LLC

Photo Description:

Photo Name: Description:

P29 - General Site Photos/Revegetation & Land Reclamation

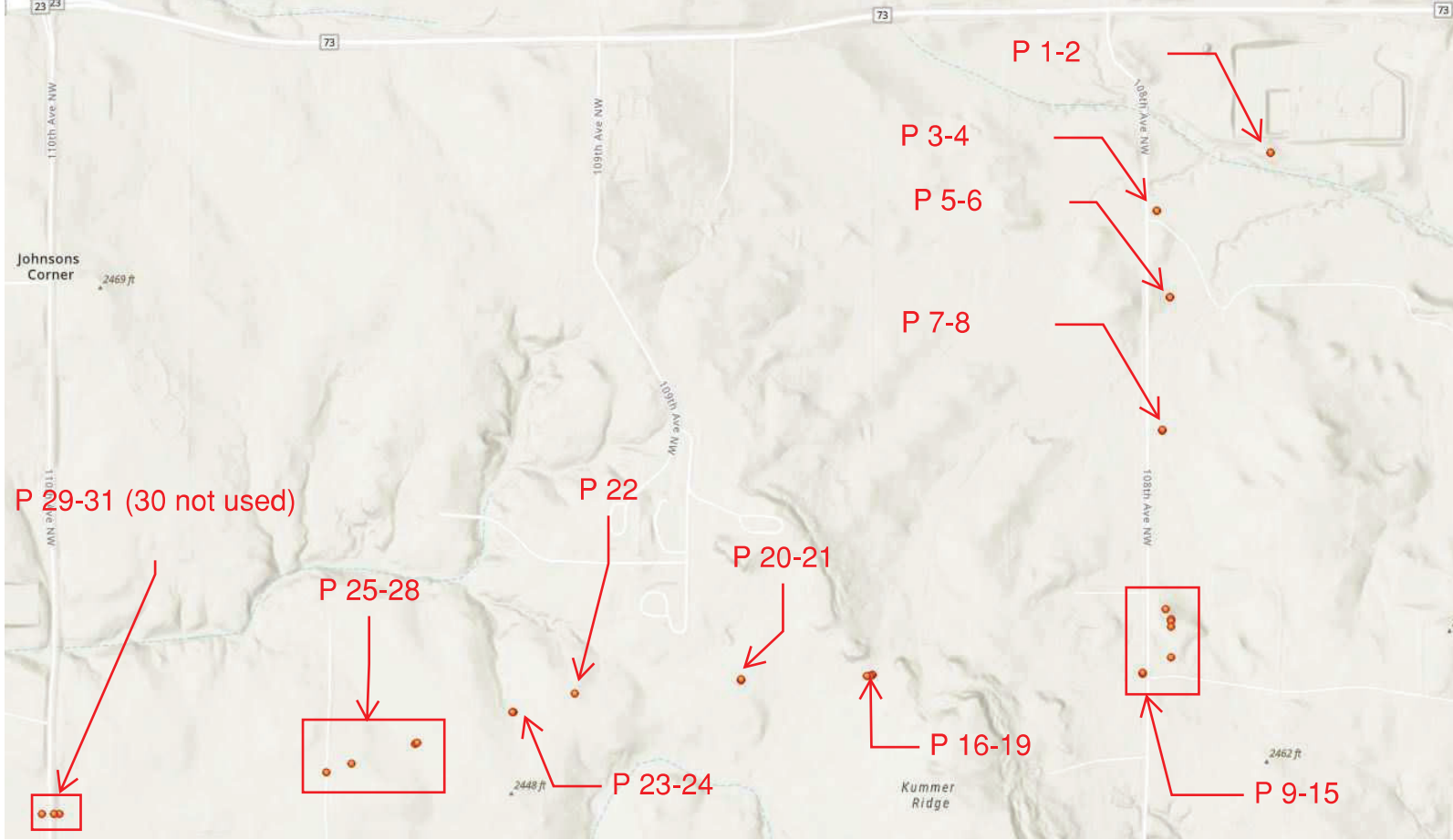
P31 - General Site Photos/Revegetation & Land Reclamation

*See attached Photo Layout Map with location of each photo (P29-P31), and attached pages of photo's

Inspector's Signature

Appendix A

Photo Location Map



Appendix B

Photos

P1 Looking East. Beginning of pipeline, abundant vegetative growth.





P2 Looking West, abundant vegetative growth.



P3 looking NE. Soil cracking visible, however, landowner seems to be working the land.



P4 looking South. Some weeds growing, however landowner seems to be working land again.



P5 looking NE-Evidence of cultivation by landowner.



P6 looking SSE, landowner has reclaimed crop land, tree line undisturbed by construction activities.



P7 looking North. Owner working crop land of ROW, some torn up material from a different company doing electrical work.



P8 looking South, substantial evidence of farmland being utilized again by landowner.



P9, looking NNW, cropland reclamation and vegetation growing.



P10, looking West. Vegetation growth evident.



P11 looking North, bare spot with minimal plant cover. Will need reseeding.



P12 looking south, ROW revegetation evident.



P13 looking North, substantive vegetative cover.



P14 looking West, tracks from farm equipment lead into a field, and field looks like it has been worked.



P 15 looking East, another farm field that has been worked, with farm equipment tracks visible.



P16 looking East, localized spot of bare soil. Will need reseeding.



P17 looking East, more of the bare soil shown in P16, but beyond that spot, adequate vegetative cover has been established.



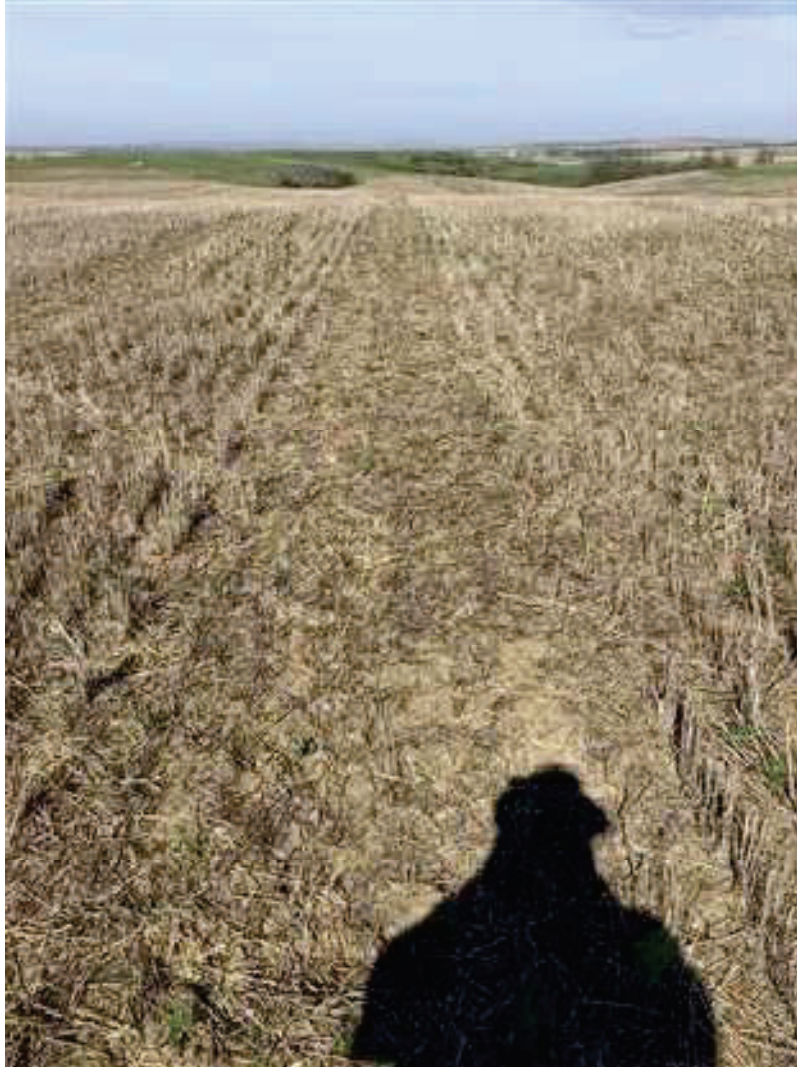
P18 looking North-seeding evident, though soil is cracking.



P19 looking West, farmlands have been worked recently, with stalks remaining from last year's harvest.



P20 looking East, can see where pipeline was installed. Field is still full of stalks from last year's harvest.



P21 looking West, Pipeline ROW visible, fields have not been worked yet, with last year's stalks still in place.



P22 looking NE, ROW has substantive vegetative growth.



P23, looking NE, lots of dead vegetation, though this area is used for ranching, lots of hoofprints evident. Vegetation likely killed by landowner's herd.



P24 looking WSW, More vegetation dead and trampled with hoof marks in the soil. The herd of black angus cows was maybe 100 feet south of inspector in this picture.



P25 looking NE, lots of dead vegetative material, all stalks from previous year's harvest.



P26, looking SW, pipeline path clearly visible, stalks from previous year's harvest evident, crop land reclaimed.



P27 looking SW, lots of bare soil and dead vegetation. Farmer hasn't worked this area yet.



P28 looking SW, pipeline path visible, no issues with crop land apparent.



P29 looking East, crop land seems to have been worked, no issues. ROW outside field boundary has adequate vegetative cover.



P31 looking SW, ROW continues on with adequate vegetative cover, after this is beyond scope of this project.



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Sustainable buildings, sound infrastructure, safe transportation systems, clean water, renewable energy and a balanced environment. Building a Better World for All of Us communicates a companywide commitment to act in the best interests of our clients and the world around us.

We're confident in our ability to balance these requirements.

