

ONEOK Bakken Pipeline

Pump Station Additions – McKenzie & Dunn Counties

Case No. PU-20-018

As-Built Construction Inspection and Reclamation Report – Big Gulch



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December 3, 2021

RE: Case No. PU-20-018
ONEOK Bakken Pipeline, L.L.C.
Pump Station Additions – McKenzie &
Dunn Counties
As-Built Construction Inspection and
Reclamation Report – Big Gulch

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

Dear Mr. Schock:

Attached is the As-Built Construction and Reclamation Inspection Report for the above referenced project. This report includes the following:

1. Executive Summary
2. Inspection Report
3. Appendix A - Map of Photograph Locations
4. Appendix B - Photographs

Sincerely,

A handwritten signature in blue ink, appearing to read "Matthew Schaible", is written over a light blue horizontal line.

Matthew Schaible, PE
Short Elliot Hendrickson Inc.
4719 Shelburne Street, Suite 6
Bismarck, ND 58503-5677

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EXECUTIVE SUMMARY

Date: 11/24/2021

Project: Case No. PU-10-018, Big Gulch Pump Station Upgrades

An inspection of the Big Gulch Pump Station upgrades was conducted after being notified of construction completion by ONEOK Bakken Pipeline, LLC. This As-Built Construction and Reclamation inspection was conducted to determine whether the transmission facility had been constructed in compliance with siting laws, siting rules, and applicable Commission Orders. The attached inspection report gives details of the inspection for topsoil conditions, erosion control, and descriptions of associated pictures taken.

All site grading and facility upgrades have been completed. Stockpiled topsoil has been spread evenly over areas that topsoil was stripped and required being placed back. Grades have been tied in to match existing surroundings and to facilitate drainage to match conditions prior to construction. All areas surrounding the facilities have positive drainage from site in designated and protected drainage ways. Best Management Practices (BMPs) have been installed minimizing site erosion and sediment deposition offsite.

Exterior portion of fence area included multiple practices of BMPs including extensive riprap drainage channels, installment of silt fence, and re-establishment of a vegetation buffer protecting the west line of the project where the majority or all of water drains to (See P5-P7, P15-P22). Observed vegetation growth matches surrounding native vegetation.

ISSUES REQUIRING RESOLUTION:

- Silt Fence that is located at west boundary where site drains has damaged silt fence allowing potential sediment deposition offsite (See P22, P23).
- An area along east boundary gravel road and Right-of-Way appears to be missing topsoil and re-vegetation practices (see P8, P10, and P11).

PROPOSED RESOLUTION:

- Fix silt fence to working order.
- Re-establish spread of topsoil seeding and mulching.

Upon inspection, the site appears to meet proposed construction and Commission siting laws, rules, and Orders except those listed above.


Inspector's Signature



INSPECTOR'S DIARY

Project: Case No. PU-10-018, Big Gulch Pump Station Upgrades		Contractor: Martin Construction	
Date: 11/24/2021	Day: Wednesday	Subcontractor:	
Weather: Cloudy, Wind 15-25mph from NW		Temp: 20 F	Inspector: Brandon Myran
Work Activities: *None - Site was designated as Complete. Site is known as operational and fence surrounding location is locked.			
Labor Force: *None			
Contractor Correspondence: *Inspector had no correspondence with contractor. Site is designated as complete, therefore inspector walked the site surrounding the fenced area to verify re-establishment of topsoil and erosion control in place.			
Other Remarks: *Inspector made a full walk around the facility's fenceline and gathered data on established conditions.			


Inspector's Signature



INSPECTOR'S DIARY

Date: 11/24/2021

Project: Case No. PU-10-018, Big Gulch Pump Station Upgrades | Contractor or Sub: Martin Construction

Work Performed & Location:

* Current site surface is dry, with light dusting of snow covering the ground, and is in good condition. Topsoil surface is slightly frozen. Construction site only has topsoil placed back on the outside of the site fence line in areas where required. All surfaces within the fence line at the facility are hard surfaces (minor concrete pavement, aggregate surface, and riprap).

*** EROSION CONTROL:**

- SILT FENCE - Inspector walked along the South and West sides of the site where silt fence was located. Silt Fence located along the South side is up and in good standing (See P13, P15-P17). Silt Fence along the West side of the site was inspected and is in good standing (See P18-P21), but there is one area where support stakes are broken. Area is located at low elevation point of site protecting major drainage way off site (See P6-P7, P22, P23). No noticeable erosion is seen on either side of Silt Fence. Existing agriculture surface appears to have no disturbance.

- RIPRAP - Prior to water reaching the Silt Fence, riprap was installed from the site fence to the silt fence installed. Riprap covers area receiving surface flow of water from facility site. Riprap is installed along each side of site fence in drainage area. Riprap appears to be in good standing.

*** TOPSOIL RECLAMATION:**

Inspector walks along silt fence which borders undisturbed topsoil. Inspector spot checks topsoil where it appears it was previously disturbed and placed back and seeded. All topsoil checks and vegetation established appear adequate besides the following area:

- North of Main Entrance in Southeast corner (See P10) and South of Secondary Entrance (See P8) within gravel road Right of Way, it appears that vegetation has not been established. In photo P10, the area appears to of been disturbed to bring power to site. Resurfacing with topsoil seeding and mulching appears to not have been completed in this area. Inspector scratched surface of said area and was able to confirm topsoil did not appear to be present (See P11).

*CULVERTS - Inspector checked approach culverts (2 Each). All aprons were clear from debris.

CONTRACTOR EQUIPMENT:

None; All have been mobilized off site.


Inspector's Signature



INSPECTOR'S DIARY

Date: 11/24/2021

Project: Case No. PU-10-018, Big Gulch Pump Station Upgrades	Contractor or Sub:
Photo Description:	
Photo Name:	Description:
P1 - NE Corner Facing South	
P2 - NE Corner Facing West	
P3 - North Boundary Facing West	
P4 - NW Corner Facing East	
P5 - NW Corner Facing South	
P6 - NW Corner start of North South Silt Fence	
P7 - West Boundary Facing South at Site Low Point Drainage Exit	
P8 - NE Corner Facing South	
P9 - East Boundary Facing West	
P10 - East Boundary Facing South	
P11 - Topsoil Missing	
P12 - Near SE Corner Facing West	
P13 - SE Corner Facing West	
P14 - SE Corner Facing North	
P15 - South Boundary Facing East/Northeast	
P16 - South Boundary Facing West	
P17 - South Boundary Facing West Continued	
P18 - SW Corner Facing North	
P19 - North of SW Corner Facing North	
P20 - North of SW Corner Facing North Continued	
P21 - North of SW Corner Facing South	
P22 - North Facing Site Low Point Drainage Exit	
P23 - Low Point Site Drainage Exit Facing East	
*See attached Photo Location Map with location of each photo, and attached pages of photo's.	

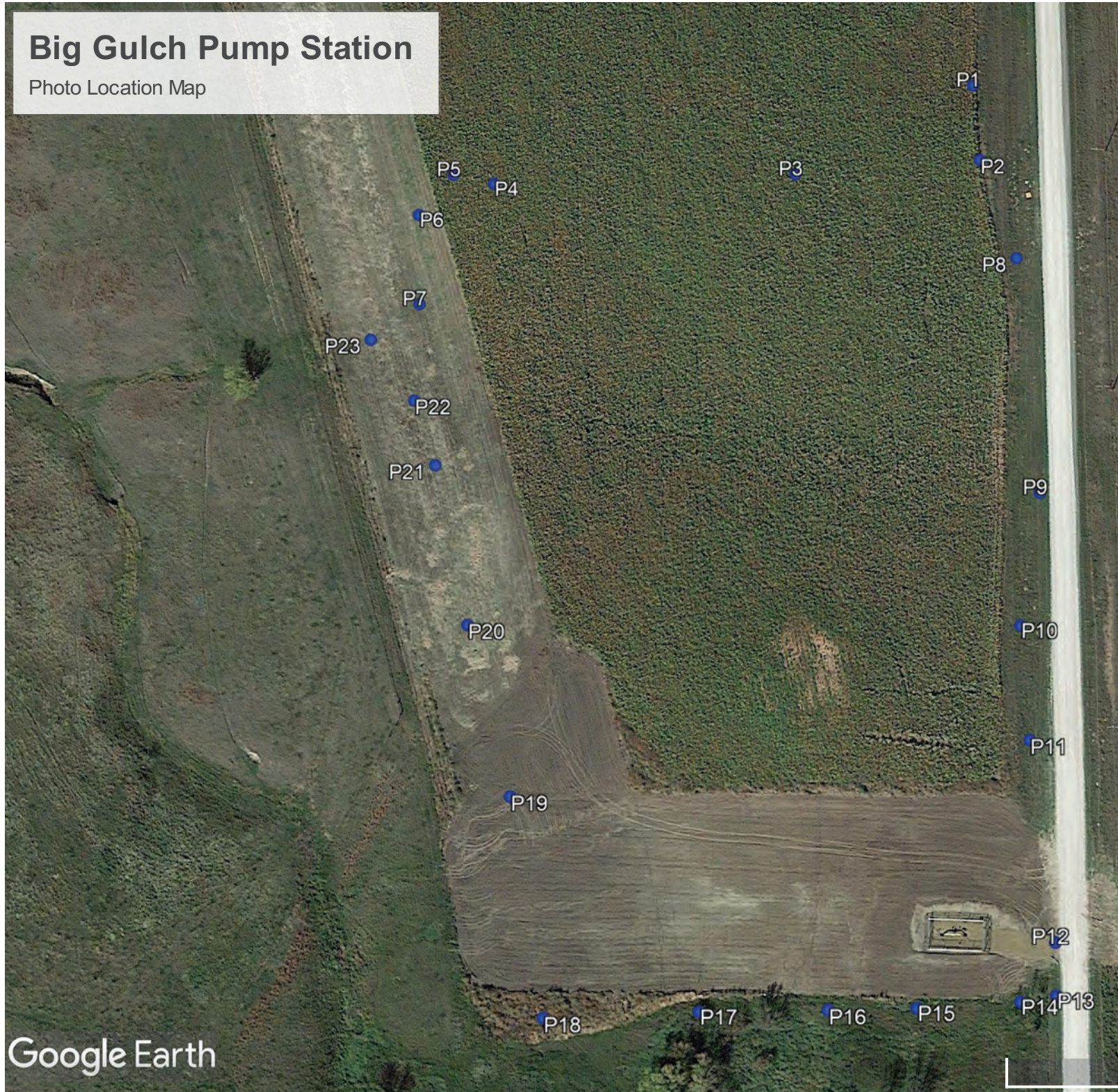

Inspector's Signature

Appendix A

Photo Location Maps

Big Gulch Pump Station

Photo Location Map



Appendix B

Photos

P1 - NE Corner Facing South



P2 - NE Corner Facing West



P3 – North Boundary Facing West



P4 – NW Corner Facing East



P5 – NW Corner Facing South



P6 – NW Corner start of North South Silt Fence



P7 – West Boundary facing South at Site Low Point Drainage Exit



P8 – NE Corner Facing South



P9 – East Boundary Facing West



P10 - East Boundary Facing South



P11 – Topsoil Missing



P12 – Near SE Corner Facing West



P13 – SE Corner Facing West



P14 – SE Corner Facing North



P15 – South Boundary Facing East/Northeast



P16 – South Boundary Facing West



P17 – South Boundary Facing West Continued



P18 – SW Corner Facing North



P19 – North of SW Corner Facing North



P20 – North of SW Corner Facing North Continued



P21 – North of SW Corner Facing South



P22 – North Facing Site Low Point Drainage Exit



P23 – Low Point Site Drainage Exit Facing East





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