



Bridger Pipeline LLC

8-inch Crude Oil Pipeline – McKenzie County

Case No. PU-20-430

Construction Inspection Report





Building a Better World
for All of Us®

December 28, 2021

RE: Case No. PU-20-430
Bridger Pipeline LLC
8-Inch Crude Oil Pipeline – McKenzie
County
Construction Inspection Report

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

Dear Mr. Renfandt:

Attached is the Construction 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 (ND)
Short Elliott Hendrickson Inc.
4719 Shelburne Street, Suite 6
Bismarck, ND 58503-5677

Engineers | Architects | Planners | Scientists

Short Elliott Hendrickson Inc., 4719 Shelburne Street, Suite 6, Bismarck, ND 58503
SEH is 100% employee-owned | sehinc.com | 701.354.7121 | 888.908.8166 fax



EXECUTIVE SUMMARY

Date: 12/14/2021

Project: Bridger Pipeline LLC 8-inch Crude Oil Pipeline

Inspector visited the construction site to document the installment of PU-20-430 Bridger Pipeline LLC 8-inch Crude Oil Pipeline. Inspector documented exposed trench depths, subsoil windrow placement for segregation. pipe installment practices, equipment utilized onsite, current work activities, and correspondence with the contractor.

Inspector conducted several depth of cover checks based off of trench depths and determined pipeline has adequate cover. No major concerning issues were identified during construction inspection. Inspector corresponded with the Loenbroe foreman and Bridger Pipeline construction superintendent to verify that frozen subsoil chunks will be broken up and compacted appropriately in order to return finish surface to previous conditions.

ISSUES REQUIRING RESOLUTION:

- Trees/brush along east side of 108th Ave NW appear to of been damaged due to equipment. (See P40)
- Vegetation at End Bore STA 30+09 appear slightly damaged (See P25, P26).

PROPOSED RESOLUTION:

- Vegetation area along east side of 108th Ave NW disturbed by equipment should be revisited within 12 months to determine if replanting is required to match existing conditions.
- Vegetation at End Bore STA 30+09 should be revisited within 12 months to determine if replanting is required.

Upon inspection, the site appears to of follow the means and methods previously discussed with the inspector and meets the construction and Commission siting rules, laws, and applicable Orders except those listed above.


Inspector's Signature



INSPECTOR'S DIARY

Project: PU-20-430 Bridger Pipeline		Contractor: Loenbro Pipeline LLC	
Date: 12/14/2021	Day: Tuesday	Subcontractor:	
Weather: Clear & sunny, wind 5-10 mph from NW		Temp: 32 F	Inspector: Brandon Myran
Work Activities: *Loenbro Pipeline LLC continues last sections of pipeline tie-in bores and pipeline not installed yet. - This work includes above ground fitting assembly at End of Project tie-in next to pump station, pipe assembly above ground by welders, and pipe installment by use of excavator and guidance by pipe laborer. Pipelayer equipment (P43) is onsite but won't be utilized until full assembly of welded pipe is ready for installment within trench.			
Labor Force: Bridger Pipeline: 1-Construction Superintendent (Tommy Massengale) Loenbro Pipeline LLC: 1-Foreman (Eric Garcia), 3-Excavator Operators, 2-Pipe Layers, 4-Welders Avery Inspection: 1-Inspector (Jake Massengale)			
Contractor Correspondence: *1040 Brandon Myran calls Tommy Massengale; Loenbro says all pipe will be installed by end of week. *1115 Tommy Massengale meets with Brandon Myran - Plan is to have all pipe buried this week and hydrostest of pipe might be Friday or Saturday. Following week will begin cleanup and spreading of salvaged topsoil. Landowner hasn't been able to be reached, so they didn't have reseeding planned until confirmation with landowner, but typically contractor pays the owner to seed their own land. - Brandon mentions approximately STA 14+00 to STA 16+00 and other small stretches, inspector noticed some topsoil/weathered subsoil in low lying area appears to not of been removed (See P15, P16). Backfill operator should place light colored lean clay first, followed by any noticed intermixed topsoil/weathered subsoil located within the subsoil windrow to top the trench. - Brandon asks to verify that subsoil backfilled will be compacted. Tommy says they wheel pack with the grader and the grader will break up any clumps before any spreading of topsoil. Contractor is required to correct any unsatisfactory surface if noticed by the owner of the land. *1240 Brandon Myran talks with Jake Massengale and Eric Garcia. All is going well for Loenbro. They agree that they should be hydrotesting Friday or Saturday. Eric says they should have salvaged topsoil placed back and everything cleaned up by 12/22/2021.			
Other Remarks: * Inspector notes that Left of centerline from STA 48+50 to STA 53+50 appears to have thin layer of topsoil still within work zone that wasn't removed. Pipeline is already installed and some work is still required to fill in last of trench and break up subsoil clumps, therefore no major concern. Once trench is filled with last of subsoil and surface is graded out, topsoil will than be able to placed back.			


Inspector's Signature



INSPECTOR'S DIARY

Date: 12/14/2021

Project: PU-20-430 Bridger Pipeline Contractor or Sub: Loenbro Pipeline LLC

Work Performed & Location:

*Inspector visited site to view trench excavation, above ground pipe assembly, pipeline installment within trench, and pipeline tie-in areas for borings. Subsoil appears frozen in areas of windrow. Topsoil remains segregated in its own windrow Left of pipeline centerline while subsoil piled in windrow right of pipeline centerline. All of trench has been excavated and several depth checks were conducted by use of tape measure. Depth of exposed trenches from bottom to top of subsoil ranged from 5.9 to 6.4 feet. With the inclusion of topsoil placement, top of pipe to finish surface distance should exceed 5 feet in areas of pipe still to be installed. Loenbro is currently working above ground at station tie-in at project end but decides to move personnel to STA 21+73 to install pipe at PI (point of reverse curvature) location (See P19, P20).

*Sections of pipe still to be installed within trench prior to backfill:

- STA 7+26 to STA 10+80 (See P1, P3, P6, P9)
- STA 12+20 to STA 15+42 (See P10-P13, P15, P41)
- STA 20+50 to STA 21+73 (See P19)
- STA 67+25 to END STA tie-in (See P38, P39)

*Inspector notices some areas where topsoil or weathered subsoil appears to not of been removed. Some of the areas are low lying areas where topsoil may have exceeded 12 inches (hence STA 14+00 to STA 16+00). Other areas like from STA 30+09 to STA 33+20 and STA 48+50 to STA 53+50 will have to be backfilled first with gray colored lean clay subsoil before any weathered subsoil or topsoil is placed.

* Pipe fitters move down to STA 14+50 to continue pipe assembly along stretch from STA 12+20 to STA 15+42 (See P41).

* Site Disturbances noted:

- Trees/brush along east side of 108th Ave NW appear to of been driven on by equipment (See P40); Area is to be revisited within 12 months to determine any action required.
- Vegetation at End Bore STA 30+09 appear slightly damaged (See P25, P26).
- Hillside tie-in near requires grade work to match previous conditions (See P35). Contractor plans to address tie-in once equipment returns to location for finish grading.

CONTRACTOR EQUIPMENT:

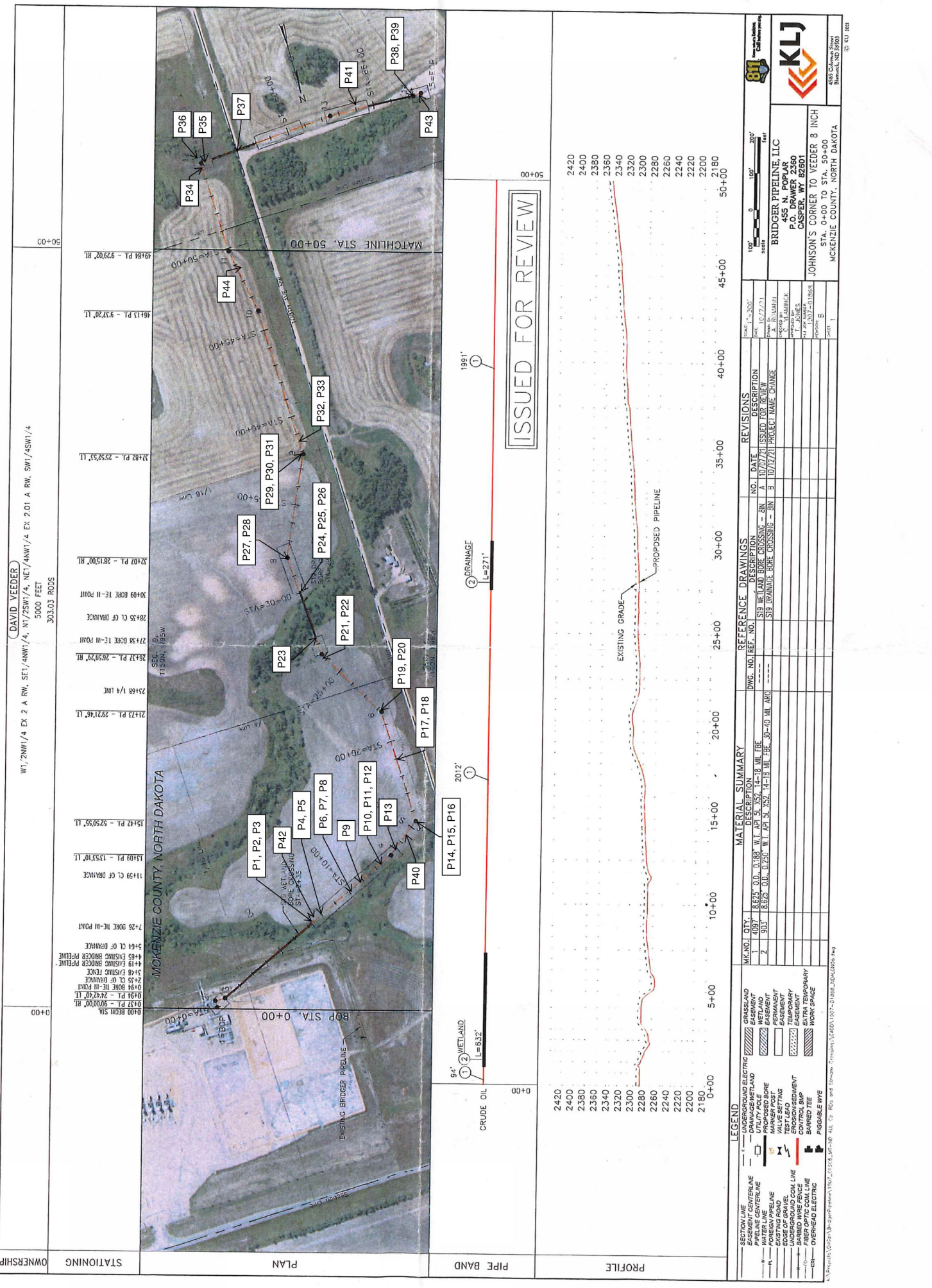
- * Equipment Operating: (1) CAT 323 Excavator, (2) Komatsu PC 210 LC Excavator
- * Equipment on Site: (1) CAT PL61 Pipelayer, (1) 872 GP John Deere Grader, (1) CAT D6 Dozer, (1) John Deere 310SK Backhoe


Inspector's Signature

Appendix A

Photo Location Map

Photo Location Map



W1/2NW1/4 EX 2 A RW, SE1/4NW1/4, NE1/4NW1/4 EX 2.01 A RW, SW1/4SW1/4
 5000 FEET
 303.03 RODS

(DAVID VEEDER)

STATIONING	DESCRIPTION
0+00	0+00 BRCH STA
0+10	0+10 PL - 820.00' RL
0+20	0+20 BORE TC-III POINT
0+30	0+30 CL OF DRAINAGE
0+40	0+40 EXISTING BRIDGE PIPELINE
0+50	0+50 CL OF DRAINAGE
0+60	0+60 EXISTING BRIDGE PIPELINE
0+70	0+70 CL OF DRAINAGE
0+80	0+80 BORE TC-III POINT
0+90	0+90 CL OF DRAINAGE
1+00	1+00 PL - 1353.10' TL
1+10	1+10 CL OF DRAINAGE
1+20	1+20 PL - 529.95' TL
1+30	1+30 BORE TC-III POINT
1+40	1+40 CL OF DRAINAGE
1+50	1+50 PL - 292.46' TL
1+60	1+60 CL OF DRAINAGE
1+70	1+70 BORE TC-III POINT
1+80	1+80 CL OF DRAINAGE
1+90	1+90 BORE TC-III POINT
2+00	2+00 CL OF DRAINAGE
2+10	2+10 BORE TC-III POINT
2+20	2+20 CL OF DRAINAGE
2+30	2+30 BORE TC-III POINT
2+40	2+40 CL OF DRAINAGE
2+50	2+50 BORE TC-III POINT
2+60	2+60 CL OF DRAINAGE
2+70	2+70 BORE TC-III POINT
2+80	2+80 CL OF DRAINAGE
2+90	2+90 BORE TC-III POINT
3+00	3+00 CL OF DRAINAGE
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5+00	5+00 CL OF DRAINAGE
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34+70	34+70 BORE TC-III POINT
34+80	34+80 CL OF DRAINAGE
34+90	34+90 BORE TC-III POINT
35+00	35+00 CL OF DRAINAGE
35+10	35+10 BORE TC-III POINT
35+20	35+20 CL OF DRAINAGE

Appendix B

Photos

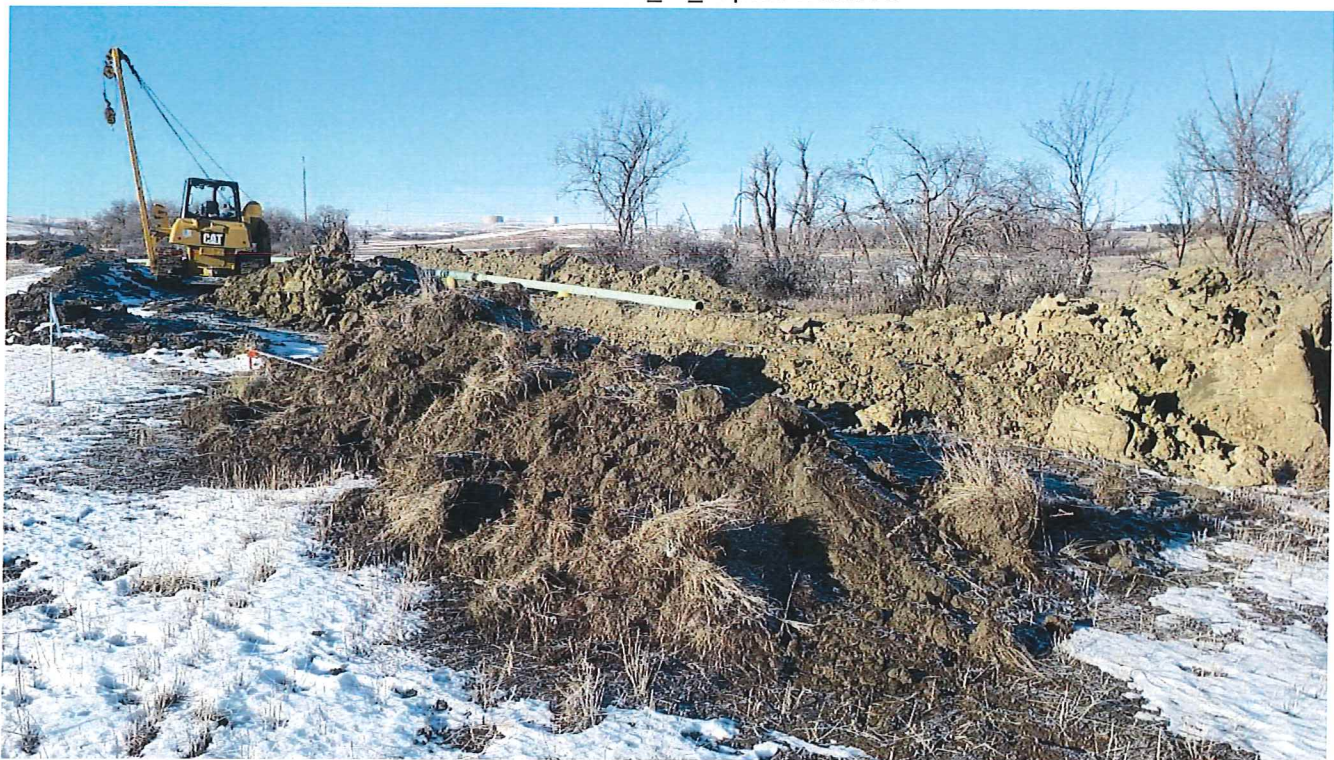
P1 – STA 7+26 BK_Bore End



P2 - STA 7+26 Topsoil Windrow



P3 – STA 7+26 AH_LT_Topsoil Windrow



P4 – STA 8+00 AH_Welded 8 IN Pipe



P5 - STA 8+00 Trench Depth



P6 – STA 10+00 AH_Trench



P7 – STA 10+00 Trench Depth



P8 – STA 10+00 Subsoil



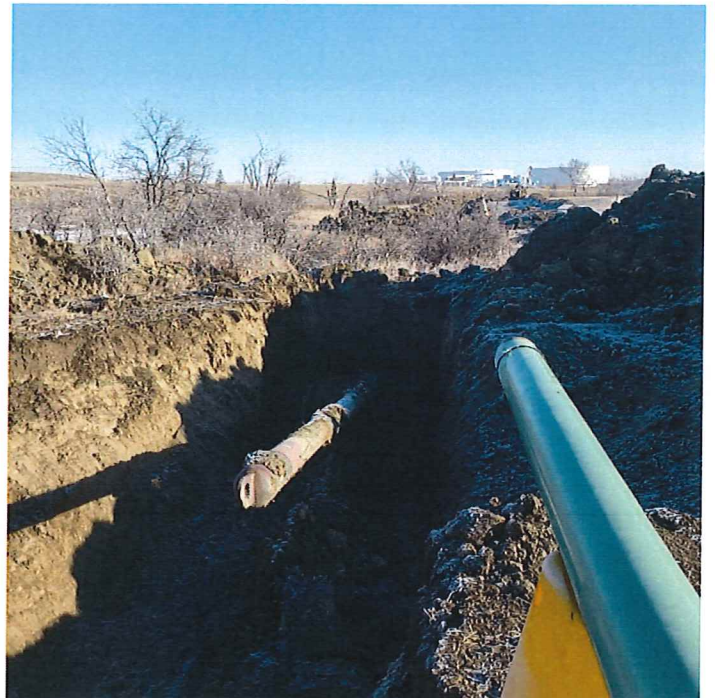
P9 - STA 10+80 Bore End



P10 – STA 12+20 AH_Bore End



P11 – STA 12+20 BK_Bore End



P12 – STA 12+40 AH_8 IN Pipe Staging



P13 – STA 13+40 AH_Trench



P14 – STA 15+42 BK_PI_RT



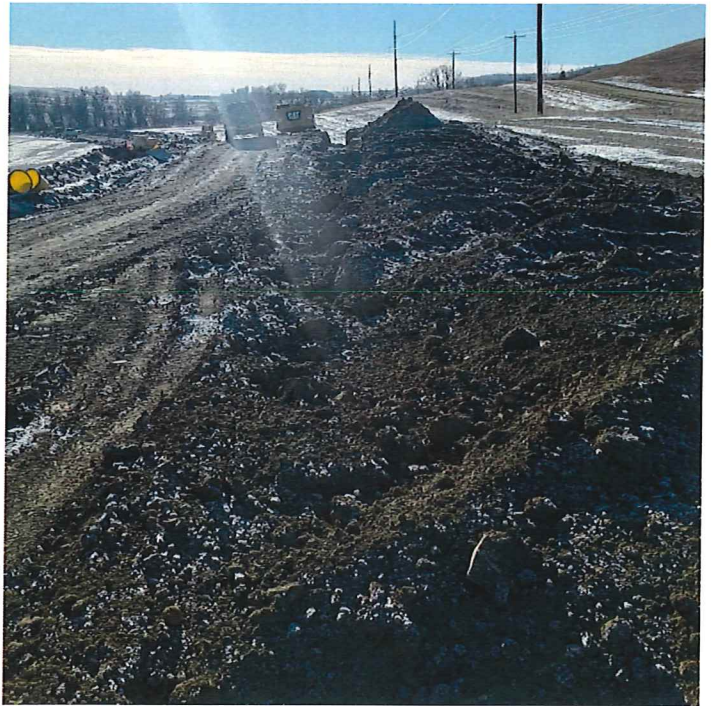
P15 – STA 15+42 AH_PI_Trench



P16 – STA 15+42 Topsoil Remaining



P17 – STA 19+00 AH_Trench Backfill



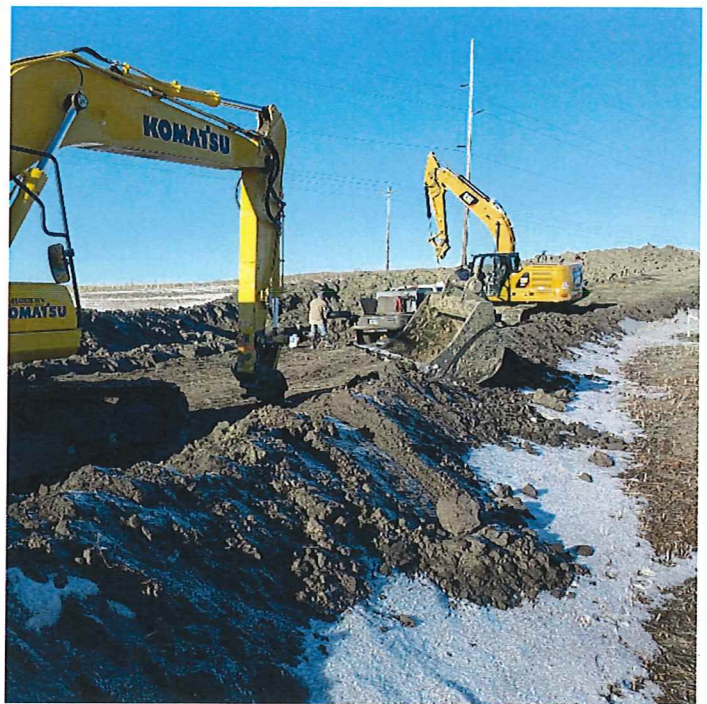
P18 – STA 19+00 BK_Trench Backfill



P19 – STA 21+73 AH_Pipe Installment



P20 – STA 21+73 BK_Pipe PI_Welding



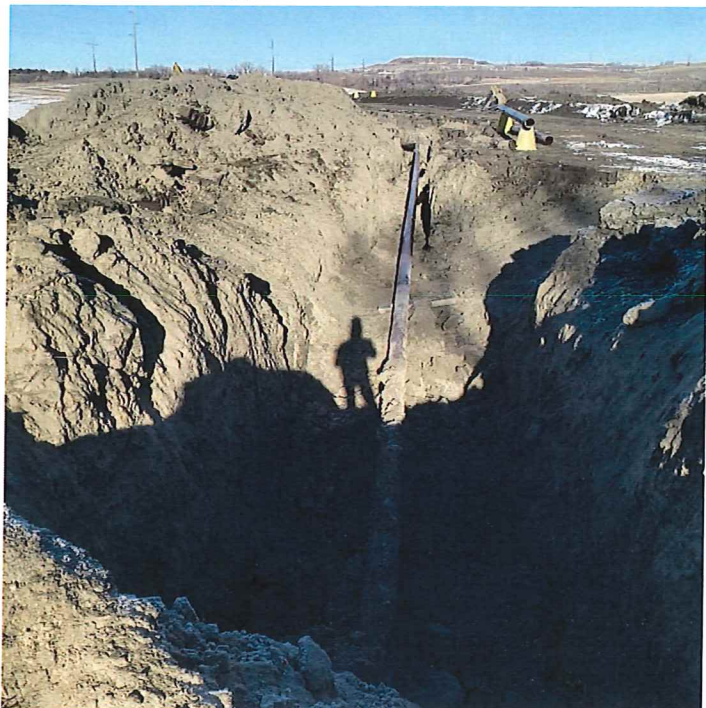
P21 – STA 26+37 AH



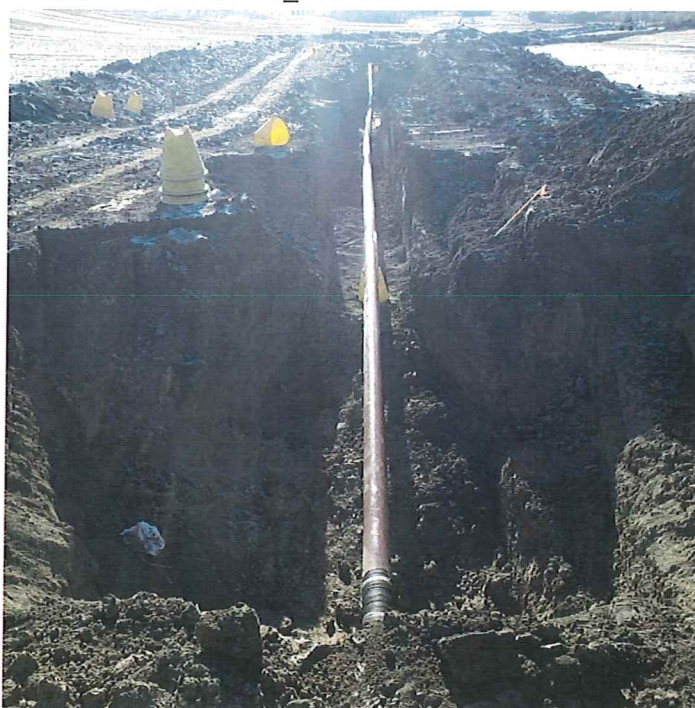
P22 – STA 26+37 AH_Pipe PI



P23 – STA 27+38 BK_Bore End



P24 – STA 30+09 AH_Bore End



P25 – STA 30+09 LT_Bore End



P26 – STA 30+09 RT_Bore End



P27 – STA 32+07 AH_Pipe PI



P28 – STA 32+07 BK_Pipe PI



P29 – STA 37+82 AH



P30 – STA 37+82 BK



P31 – STA 37+82 Pipe PI



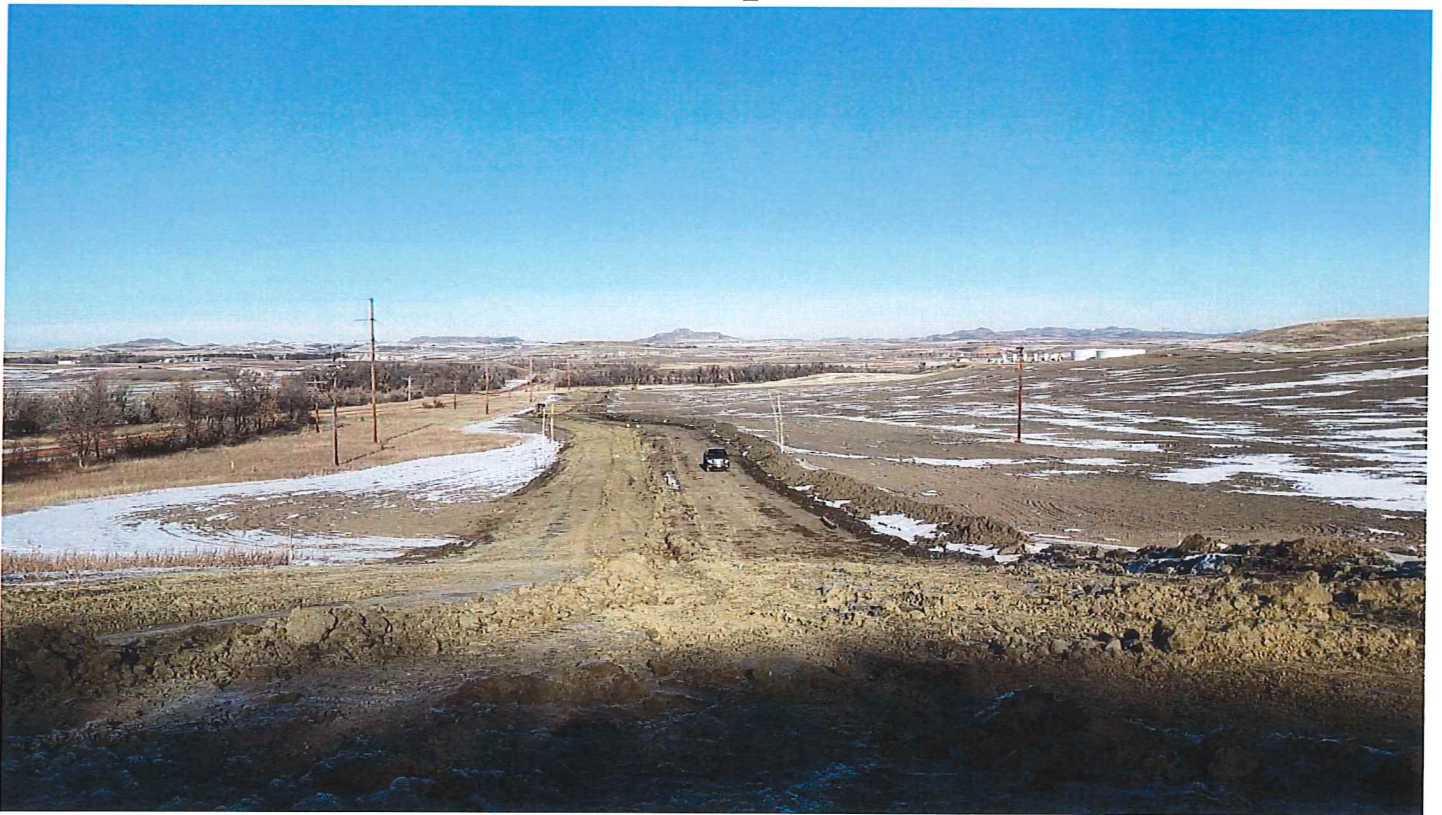
P32 – STA 38+50 BK_Trench



P33 – STA 38+50 AH_Trench Backfill



P34 – STA 54+85 BK_Trench Backfill



P35 – STA 55+15 BK_Grading Required



P36 – STA 54+80 LT_SalvagedTopsoil



P37 – STA 57+00 AH



P38 – STA 67+25 Bore End



P39 – STA 67+25 AH_Bore End



P40 - STA 56+81 Vegetation Disturbance



P41 – STA 14+50 BK_Pipe Welding



P42 – Equipment Onsite



P43 – Equipment Onsite



P44 – Equipment Onsite



P45 – Equipment Onsite





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