



Case No. PU-21-353

2.9-mile Crude Oil Pipeline – Williams County

Hiland Crude, LLC

Construction Inspection Report





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March 3, 2022

RE: Case No. PU-21-353
Hiland Crude, LLC
2.9-Mile Crude Oil Pipeline
Williams County
Construction Inspection Report
SEH No. NDPSC 165075 14.00

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 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 and Descriptions

Sincerely,

A handwritten signature in blue ink, appearing to read "Matthew Schaible", with a long horizontal flourish extending to the right.

Matthew Schaible, PE (ND)
Project Manager

NMB

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EXECUTIVE SUMMARY

Date: 02/18/2022

Project: Hiland Crude, LLC 2.9-mile Crude Oil Pipeline	
<p>Construction inspection site visit was conducted by Inspector to document progress of installation of the pipeline for construction of PU-21-353 Hiland Crude LLC 2.9-mile Crude Oil Pipeline. Inspector was on site to document ongoing work activities, equipment being utilized, contractor correspondence, and depth checks of installed pipeline.</p> <p>Documentation was kept to verify contractor is able to continually understand and demonstrate segregation of topsoil and subsoil in order to return disturbance area within construction right of way back to original conditions within reasonable means.</p> <p>Prior to construction beginning, Kinder Morgan chief inspector, and SEH field inspection were able to go through day's plans. Due to near zero temperatures and high winds, plans changed from working in several locations and boring at STA 136+80 to just performing trenching activities and prepping areas to be trenched.</p> <p>No concerning issues were identified during inspection. Inspector noted all operations appeared to be within compliance. All depth checks of installed pipeline were found to be at least 4.5' from top of pipe to exposed ground surface meeting the minimum 48" requirement stated within the Findings of Fact, Conclusions of Law and Order document. All topsoil and subsoil stockpiles were kept segregated. Safety fence was installed around all open trenches deeper than 5'. No erosion control measures were installed due to work beginning after the ground had frozen.</p> <p>Minimal work activities took place while inspector was on site.</p>	


Inspector's Signature



INSPECTOR'S DIARY

Project: PU-21-353 - Hiland Crude, LLC - 2.9-Mile Crude Oil Pipeline		Contractor: Kinder Morgan	
Date: 02/18/2022	Day: Friday		Subcontractor: Silver Fox
Weather: Cloudy, Wind 25-30mph NW		Temp: 5 F	Inspector: Nina Bonanno
Work Activities: * Due to low temperatures and high winds throughout the morning, the work activities did not take place as scheduled. Trenching operations were performed at STA 123+00, working south.			
Labor Force: Kinder Morgan: 1-Chief Inspector Silver Fox: 3-Foreman, 1-Operators, 8-Laborers			
Contractor Correspondence: * Nina Bonanno arrived on site at 1110 * 1116 - Nina Bonanno called Kinder Morgan inspector, Philip Strother, but he did not answer. Strother returned the call at 1120 and said he would be on site soon. * 1127 - Philip Strother arrives on site and speaks with Nina Bonanno. Explains that due to weather, most planned work activities for the day have been postponed. They will not be completing the bore/tie-in underneath the BNSF rail line near STA 136+80. * Philip Strother informs inspector of access road around tree row near STA 53+50 heading south along tree row, then east along fence line, back north along tree row to STA 60+00. He said they had permission from the landowner to use. * Nina Bonanno drove entire length of line, (that was accessible) only work being completed at the time of inspection was trenching operations near STA 123+00.			
Other Remarks: * Crew members began staging materials to begin trenching between STA 10+00 and STA 4+00.			


Inspector's Signature



INSPECTOR'S DIARY

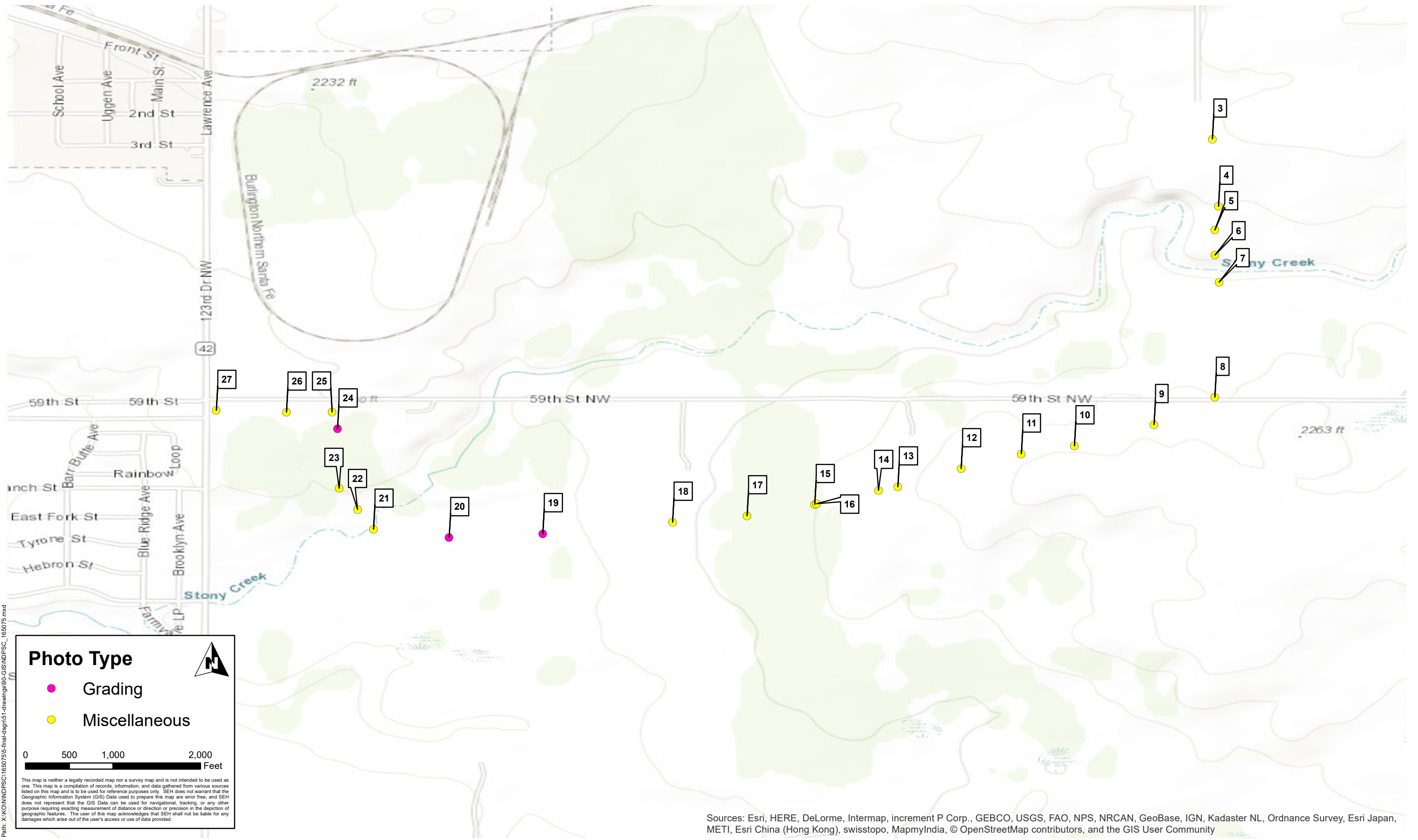
Date: 02/18/2022

Project: PU-21-353 - Hiland Crude, LLC - 2.9-Mile Crude Oil Pipeline	Contractor or Sub: Kinder Morgan, Silver Fox
Work Performed & Location:	
Inspector Observations:	
* All topsoil stockpiled to RT of pipeline, subsoil excavated and stockpiled on LT. All stockpiles remain within ROW limits.	
* Stockpiled topsoil and subsoil remain segregated throughout project	
* Several depth checks were taken of installed pipeline. Measurement was taken from top of pipe to exposed ground surface. Due to high winds, measurements are approximate. Locations and results are as follows:	
- STA 76+00, 5.5'	
- STA 65+00, 4' 10"	
- STA 48+50, 5'	
- STA 26+72, 5.5'	
- STA 21+00, 4.5'	
- STA 12+40, 5'	
* Trenched areas deeper than 5' had safety fence installed	
* No erosion control devices have been installed due to work beginning after ground freeze. There were no signs of sediment deposition off site, build-up or erosion of any kind.	
* Wood plank mats maintained over wetland crossings to prevent damage and sediment build-up, and adjacent to Co. Rd 42 to prevent sediment track out from vehicles leaving the site.	
* All work activities within compliance of Findings of Fact, Conclusions of Law and Order document.	
CONTRACTOR EQUIPMENT:	
Silver Fox: (1) CAT 336F Excavator	
- (1) John Deere 300G Excavator	


Inspector's Signature

Appendix A

Photo Location Map



Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Path: X:\K\NDPSC\1650755-final-dsgn\1-drawings\90-GIS\NDPSC_165075.mxd

Appendix B

Photos



Daily Construction Observation Report

Job No./file NDPSC 165075	SEH No.
	Date 02/18/2022

Project: #PU-21-353 Hiland Crude Pipeline

Location: Hiland Crude - Construction Inspection 2022.02.18

Inspector Name: Nina Bonanno

Start Time: 12:00 PM

End Time: 3:00 PM

Morning Weather: Cloudy

Afternoon Weather: Sunny

Temp. (F): High 9 Low -2

Rainfall (in):

Utility Conflicts: No

Overall Comments:

Prime Contractor:

Foreman Name: Philip Strother

of Crews: 12

Crew Hours:

Equipment Onsite: CAT 336F Excavator, John Deere 300G Excavator

Contractor Notes:

Item Records

Item ID: 3

Location: STA 123+00

Time: 12:59 PM

Direction Facing: N

Photo Type: Miscellaneous

Notes: Trenching operations



Item ID: 4

Location: STA 116+00

Time: 1:07 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: Pipe staging. Topsoil stockpiled on RT



Item ID: 5

Location: STA 113+00

Time: 1:13 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: Trench and staged pipe



Item ID: 6

Location: STA 110+00

Time: 1:16 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: Wood planking over wetland crossing



Item ID: 7

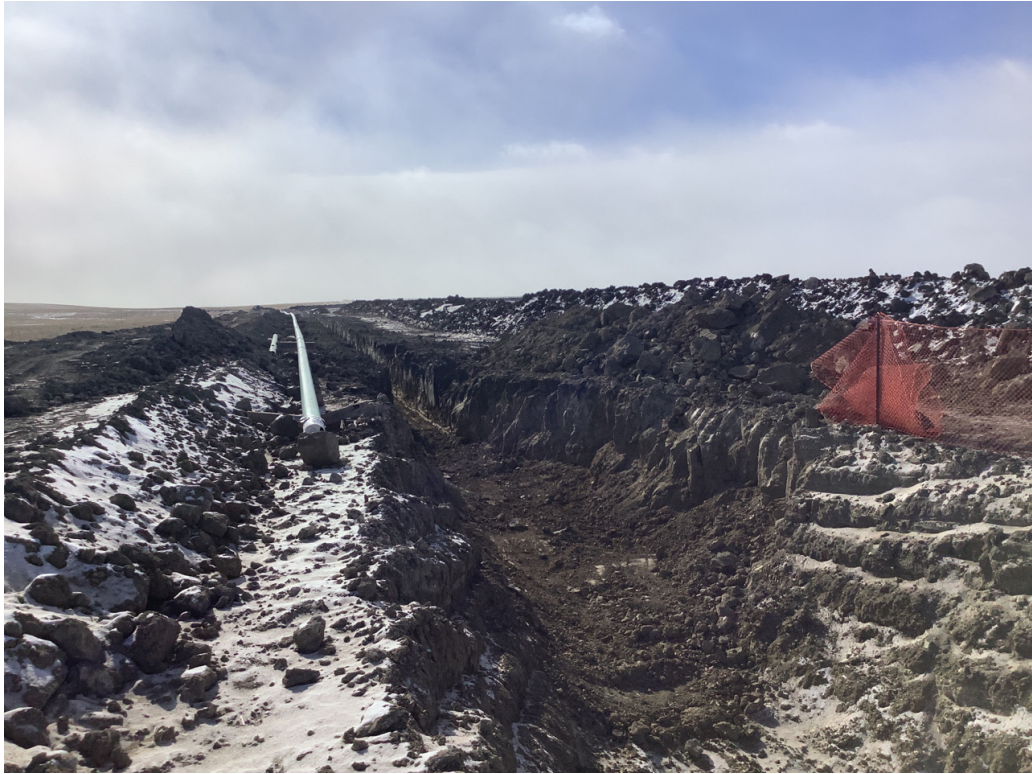
Location: STA 107+00

Time: 1:19 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: Trench and staged pipe with topsoil stockpile on RT and subsoil stockpile on LT



Item ID: 8

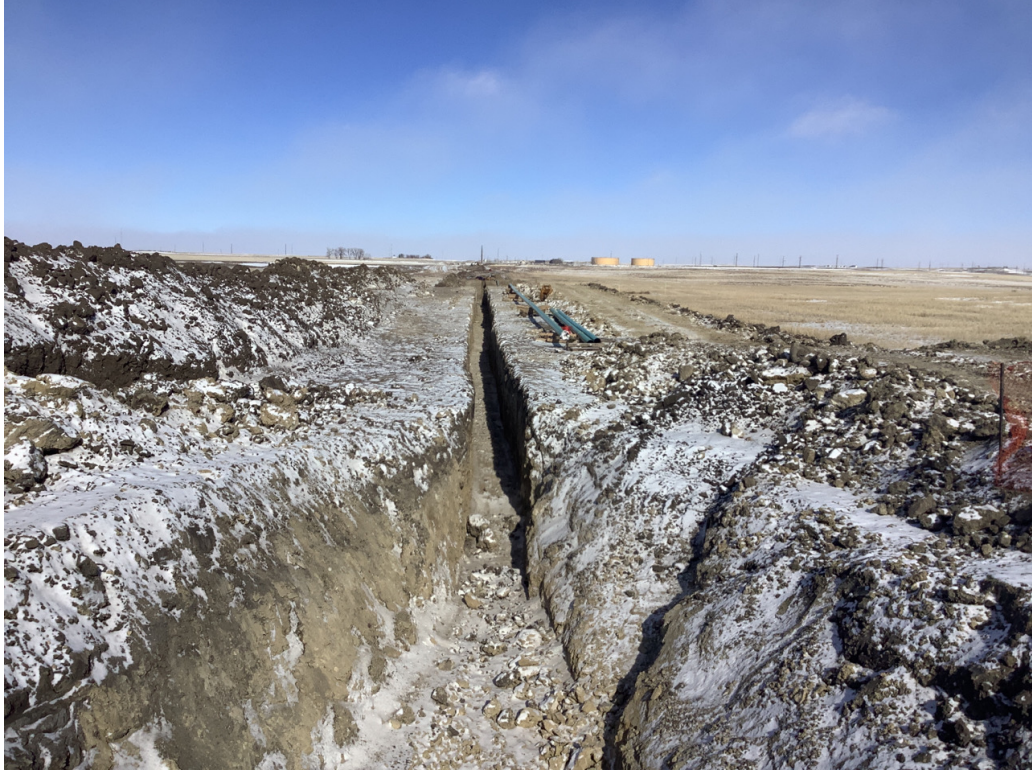
Location: STA 96+00

Time: 1:26 PM

Direction Facing: N

Photo Type: Miscellaneous

Notes: Trench and staged pipe. Topsoil stockpile within ROW limits



Item ID: 9

Location: STA 88+00

Time: 1:29 PM

Direction Facing: NE

Photo Type: Miscellaneous

Notes: Topsoil stockpile on RT, subsoil on LT flattened and used as driving surface.



Item ID: 10

Location: STA 81+00

Time: 1:34 PM

Direction Facing: NE

Photo Type: Miscellaneous

Notes: Topsoil stockpile on RT, subsoil on LT. Trench and staged pipe



Item ID: 11

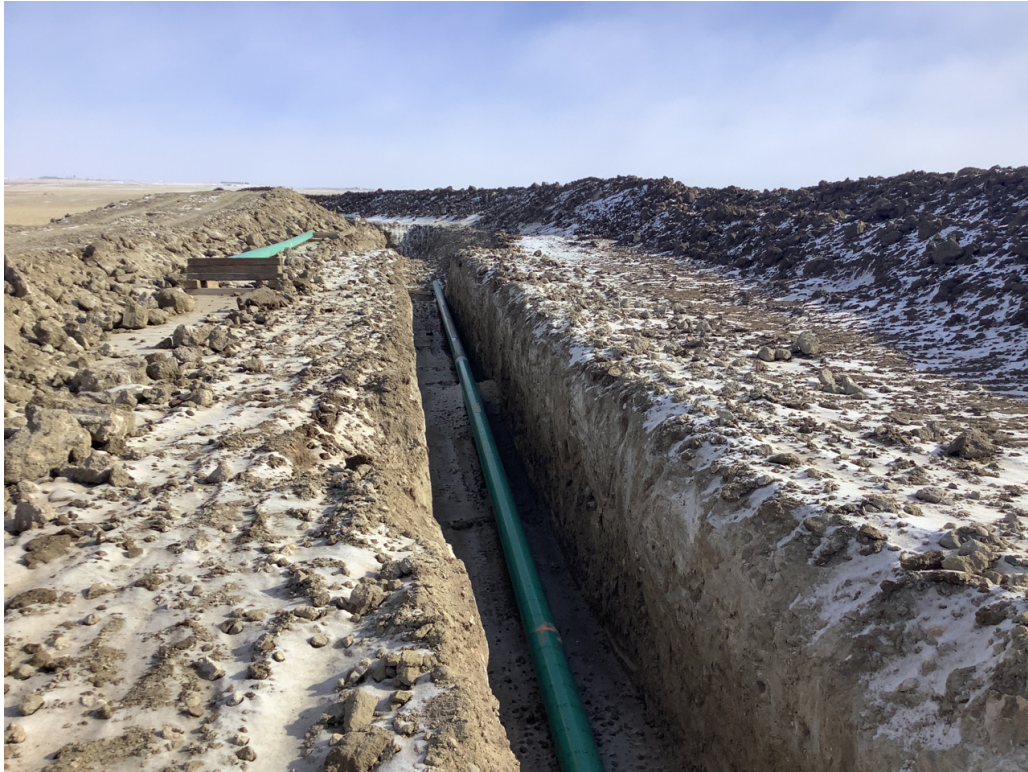
Location: STA 76+00

Time: 1:39 PM

Direction Facing: NE

Photo Type: Miscellaneous

Notes: Partially backfilled pipe. Approx 5.5' from top of pipe to exposed ground surface



Item ID: 12

Location: STA 71+00

Time: 1:47 PM

Direction Facing: W

Photo Type: Miscellaneous

Notes: Backfilled pipe. Surface partially graded



Item ID: 13

Location: STA 66+00

Time: 1:54 PM

Direction Facing: NE

Photo Type: Miscellaneous

Notes: Backfilled pipe. Partially graded surface, subsoil windrow present



Item ID: 14

Location: STA 65+00

Time: 1:59 PM

Direction Facing: W

Photo Type: Miscellaneous

Notes: Installed pipe. 4' 10" from top of pipe to exposed ground surface



Item ID: 15

Location: STA 60+72

Time: 2:04 PM

Direction Facing: E

Photo Type: Miscellaneous

Notes: End of bore. Trench and staged pipe



Item ID: 16

Location: STA 60+72

Time: 2:06 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: Access road. Contractor has landowner permission to use, per Philip Strother



Item ID: 17

Location: STA 52+95

Time: 2:12 PM

Direction Facing: W

Photo Type: Miscellaneous

Notes: Back side of topsoil pile. Within ROW limits



Item ID: 18

Location: STA 48+50

Time: 2:15 PM

Direction Facing: W

Photo Type: Miscellaneous

Notes: Installed pipe. Not backfilled. Topsoil stockpile on RT, subsoil stockpile on LT flattened for driving surface. Approx. 5' from top of pipe to exposed ground surface



Item ID: 19

Location: STA 39+00

Time: 2:21 PM

Direction Facing: SW

Photo Type: Grading

Notes: Backfilled pipe, subsoil graded overtop



Item ID: 20

Location: STA 34+00

Time: 2:25 PM

Direction Facing: E

Photo Type: Grading

Notes: Pipe backfilled, subsoil graded



Item ID: 21

Location: STA 26+72

Time: 2:28 PM

Direction Facing: E

Photo Type: Miscellaneous

Notes: Installed pipe, staged pipe. Installed approximately 5.5' from top of pipe to exposed ground surface.



Item ID: 22

Location: STA 24+50

Time: 2:33 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: Wood planks over wetland crossing



Item ID: 23

Location: STA 21+00

Time: 2:36 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: Installed pipe, approximately 4.5' from top of pipe to exposed ground surface.



Item ID: 24

Location: STA 13+50

Time: 2:41 PM

Direction Facing: S

Photo Type: Grading

Notes: Backfilled pipe, subsoil graded



Item ID: 25

Location: STA 12+40

Time: 2:43 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: Installed pipe, not fully backfilled. Approx 5' from top of pipe to exposed ground surface



Item ID: 26

Location: STA 10+00

Time: 2:46 PM

Direction Facing: W

Photo Type: Miscellaneous

Notes: Staged pipe, not trenched yet



Item ID: 27

Location: STA 3+00

Time: 2:53 PM

Direction Facing: E

Photo Type: Miscellaneous

Notes: Relief cuts

