



Hiland Crude, LLC

2.9-mile Crude Oil Pipeline – Williams County

Case No. PU-21-353

As-Built Construction Inspection Report





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January 21, 2022

RE: Case No. PU-21-353
Hiland Crude, LLC
2.9-mile Crude Oil Pipeline
Williams County
As-Built Construction 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 As-Built 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, appearing to read "Matthew Schaible", with a long horizontal flourish extending to the right.

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

Engineers | Architects | Planners | Scientists

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EXECUTIVE SUMMARY

Date: 9/22/2022

Project: Hiland Crude LLC 2.9 Mile Crude Oil Pipeline

Inspector visited the construction site to document the completion of Case No. PU-21-353 Hiland Crude LLC 2.9 Mile Crude Oil Pipeline. This As-Built Construction was conducted to determine whether the pipeline 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 grading has been completed. Stockpiled topsoil has been spread evenly over areas that topsoil was stripped. Grades have been established to facilitate surface drainage matching pre construction conditions. All areas surrounding the construction have positive drainage from site in designated and protected drainage ways.

ISSUES REQUIRING RESOLUTION:

- Sinking along trench line in various locations
- Sink holes along trench line in two areas
- Water runoff streams starting to form along trench line
- Areas requiring seeding for erosion control

Upon inspection, the site appears to have some issues that need rehabilitation. The means and methods previously discussed with the inspector and meets the construction and Commission siting rules, laws, and applicable orders with the exception of the areas listed in the inspection diary that need attention.



Inspector's Signature



INSPECTOR'S DIARY

Project: Case No. PU-21-353 Hiland Crude LLC 2.9 Mile Crude Oil Pipeline		Contractor: Hiland Crude LLC	
Date: 9/22/2022	Day: Thursday	Subcontractor:	
Weather: Fair, Wind SE @ 15-20 mph		Temp: 60 F	Inspector: Brett Job
Work Activities: *None - Site was designated as Complete. Pipeline is known as operational.			
Labor Force: *None			
Contractor Correspondence: *Inspector spoke with contractor on 9/20/2022 to inform the inspection would be taking place. Contractor confirmed this would be no issue and to proceed as necessary. Contractor also specified that a representative would be meeting on-site to go over the project with inspector.			
Other Remarks: *Inspector made a trip doing various spot checks along the 2.9-mile pipeline project.			


Inspector's Signature



INSPECTOR'S DIARY

Date: 9/22/2022

Project: Case No. PU-21-353 Hiland Crude LLC 2.9 Mile Crude Oil Pipeline Contractor or Sub: Hiland Crude LLC

Work Performed & Location:

* Current surface is dry, with most of the surface containing full vegetative cover and is in good condition. Some locations pictured do have some various issues that need resolved.

*** CROP LAND RECLAMATION:**

A majority of this pipeline has crossed over privately owned crop land and from observations taken, much of this land has been reclaimed and is covered in vegetation. However, some of the crop land does have some sinking along the trench line that needs attention, along with a large sink hole pictured in photos 32-33.

*** TOPSOIL RECLAMATION:**

Inspector spot checks various locations to check for differences between project disturbed topsoil and undisturbed topsoil. Inspector spot checks topsoil where it appears it was previously disturbed and placed back and seeded. Some of the topsoil has cracking where it has sunk along the trench line which should be addressed.

*** CONCERN AREAS:**

- Photos 32-34 - Large sink hole and soil cracking along buried pipeline. This area needs to be re-graded and seeded.
- Photos 48-50 - Water runoff has created an erosion channel along the buried pipeline and caused some sinking. This area needs re-graded and seeded.
- Photos 53-54 - Sinking along buried pipeline. This area needs re-graded and seeded.
- Photo 57 - Sinking area along buried pipeline. This area needs re-graded and seeded.
- Photos 55-59 - Needing more vegetative cover to prevent erosion issues. This area needs re-seeded.

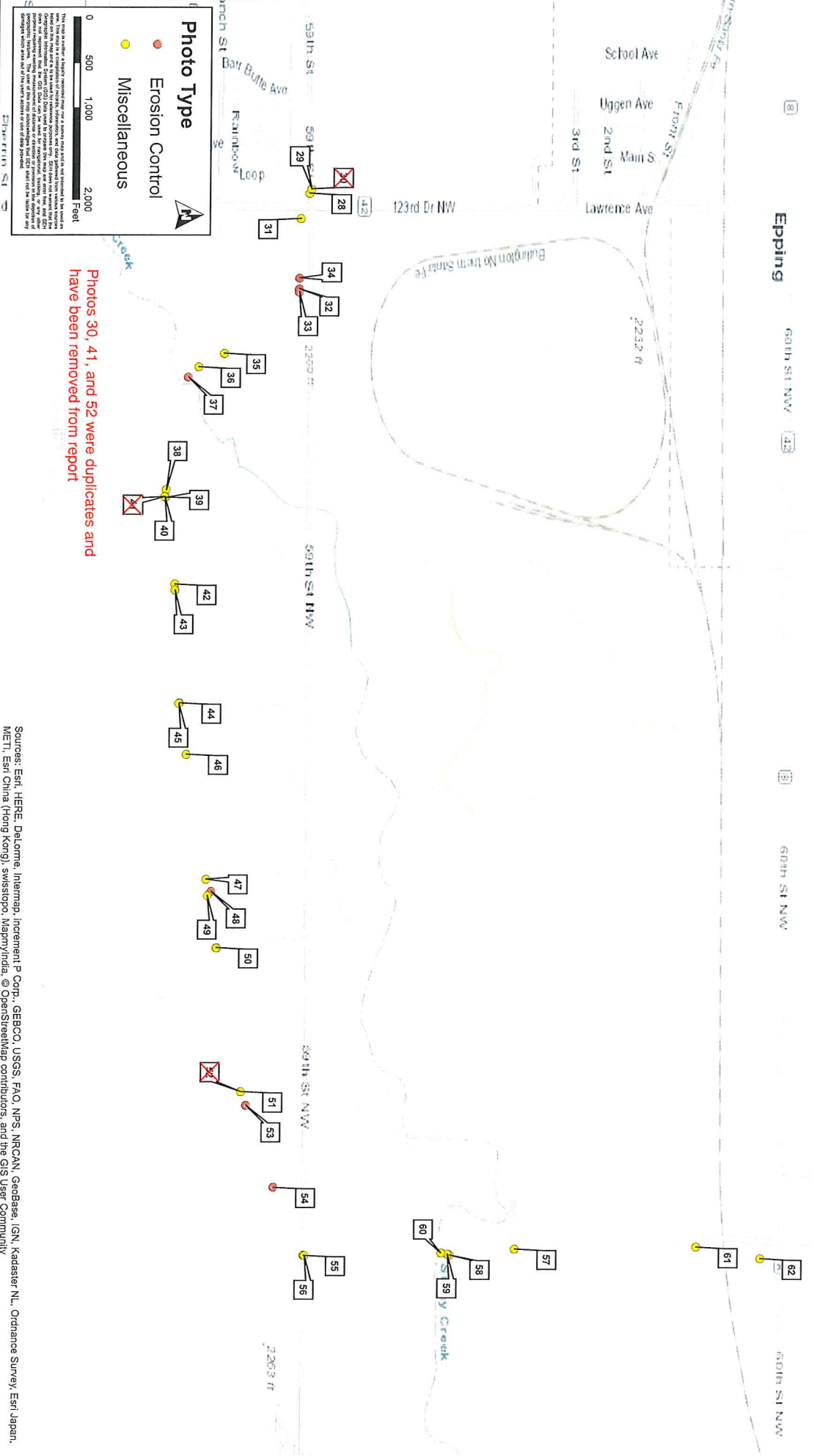
CONTRACTOR EQUIPMENT:

None; All have been mobilized off site.


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

Appendix B

Photos



Daily Construction Observation Report

Job No./file	SEH No.
NDPSC 165075	
	Date
	09/22/2022

Project: Hiland Crude 2.9-mile Crude Oil Pipeline - Williams County

Location: Williams County

RPR Name: Brett Job

Start Time: 11:00 AM

End Time: 2:00 PM

Morning Weather: Partly Cloudy

Afternoon Weather: Partly Cloudy

Temp. (F): High 62 Low 55

Rainfall (in):

Utility Conflicts:

Overall Comments:

Prime Contractor: Hiland Crude LLC

Foreman Name:

of Crews:

Crew Hours:

Equipment Onsite:

Contractor Notes:

Item Records

Location: Starting Point

Time: 11:01 AM

Direction Facing: NW

Photo Type: Miscellaneous

Notes:

Photo 28



Location: Starting Point

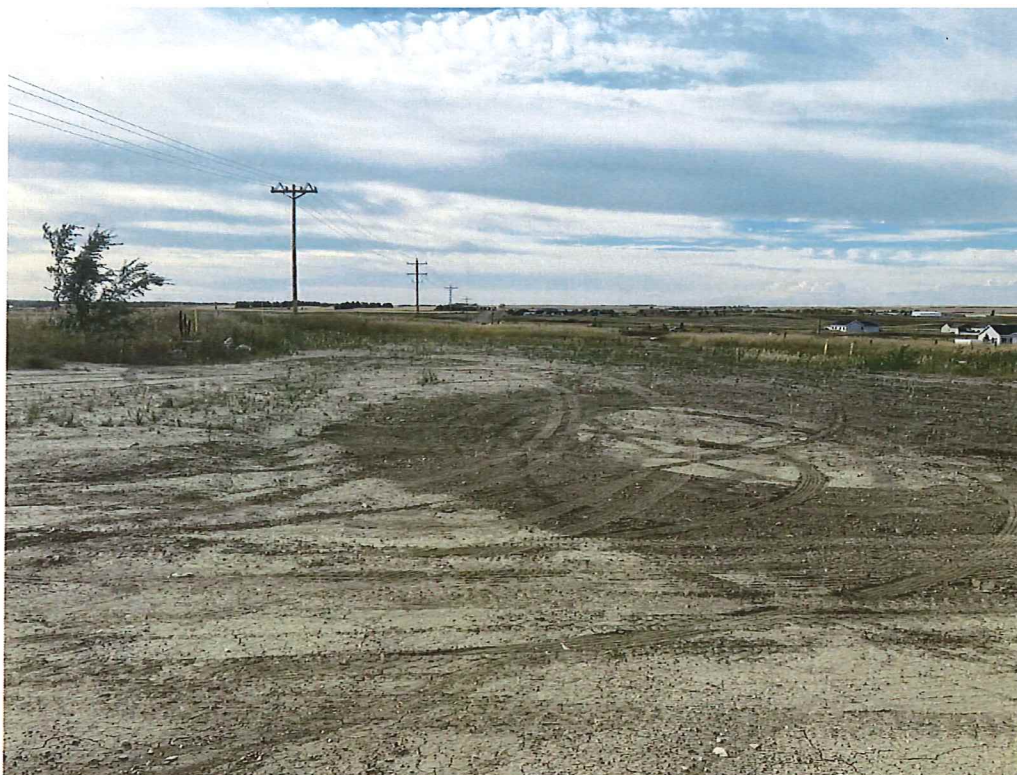
Time: 11:02 AM

Direction Facing: S

Photo Type: Miscellaneous

Notes:

Photo 29



Location:

Time: 11:04 AM

Direction Facing: E

Photo Type: Miscellaneous

Notes:

Photo 31



Location:

Time: 11:06 AM

Direction Facing: E

Photo Type: Erosion Control

Notes: Sunken Trench

Photo 32



Location:

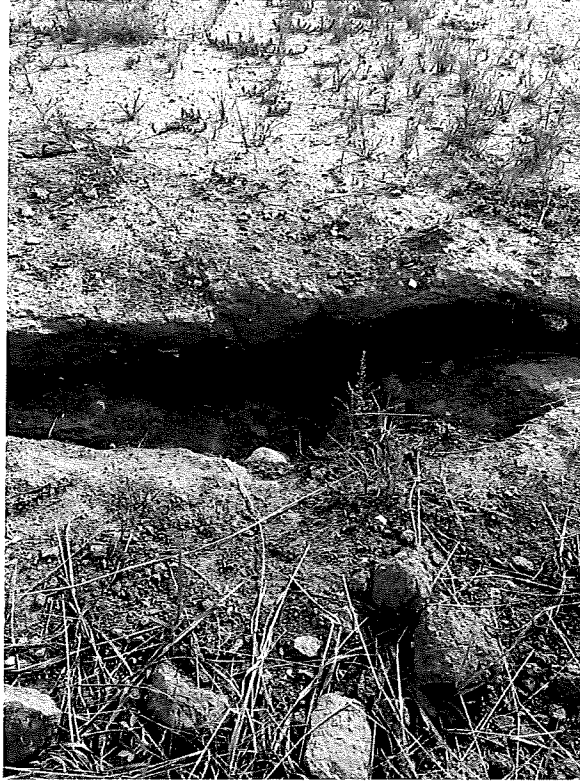
Time: 11:07 AM

Direction Facing: E

Photo Type: Erosion Control

Notes: Sunken Trench

Photo 33



Location:

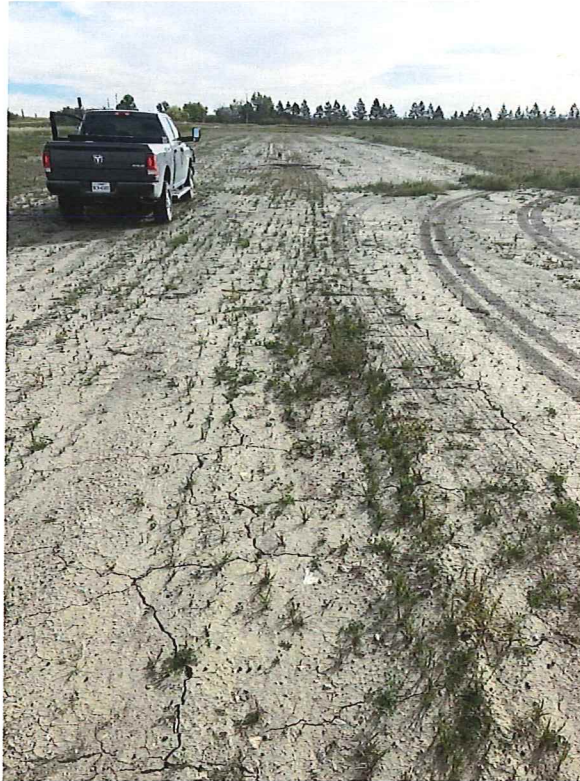
Time: 11:07 AM

Direction Facing: E

Photo Type: Erosion Control

Notes: Cracking along trench line

Photo 34



Location:

Time: 11:10 AM

Direction Facing: N

Photo Type: Miscellaneous

Notes:

Photo 35



Location:

Time: 11:12 AM

Direction Facing: N

Photo Type: Miscellaneous

Notes: Some soil cracking

Photo 36



Location:

Time: 11:13 AM

Direction Facing: S

Photo Type: Erosion Control

Notes: Creek is dry, no noticeable erosion issues

Photo 37



Location:

Time: 11:15 AM

Direction Facing: W

Photo Type: Miscellaneous

Notes: No issues

Photo 38



Location:

Time: 11:16 AM

Direction Facing: E

Photo Type: Miscellaneous

Notes: No Issues

Photo 39



Location:

Time: 11:17 AM

Direction Facing: NW

Photo Type: Miscellaneous

Notes:

Photo 40



Location:

Time: 11:20 AM

Direction Facing: W

Photo Type: Miscellaneous

Notes: Floating bridge was used here, no noticeable environmental concerns

Photo 42



Location:

Time: 11:21 AM

Direction Facing: E

Photo Type: Miscellaneous

Notes: No Issues

Photo 43



Location:

Time: 11:24 AM

Direction Facing: E

Photo Type: Miscellaneous

Notes: Gate

Photo 44



Location:

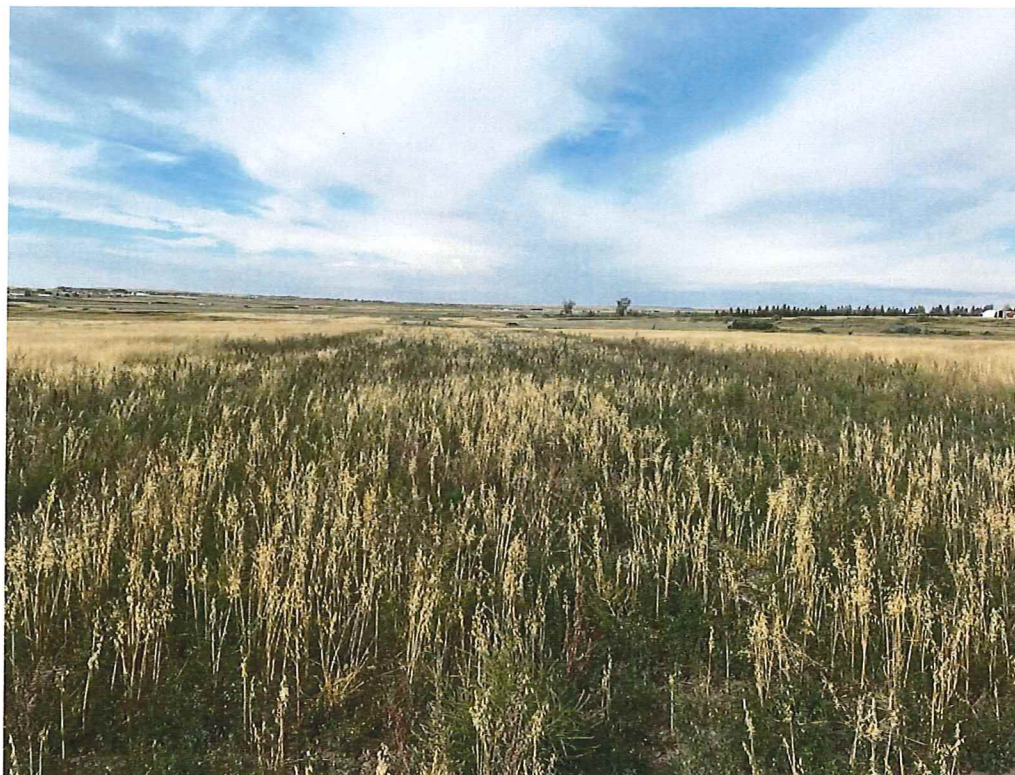
Time: 11:25 AM

Direction Facing: W

Photo Type: Miscellaneous

Notes: Vegetative Growth

Photo 45



Location:

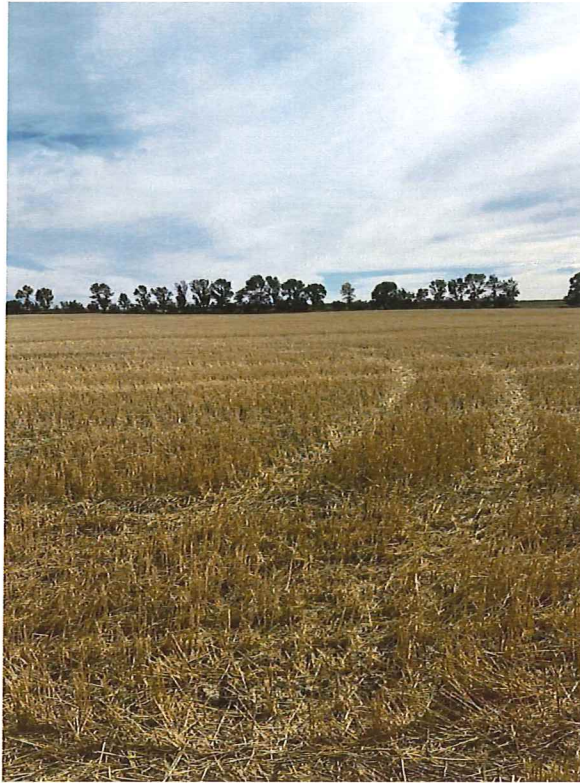
Time: 11:31 AM

Direction Facing: E

Photo Type: Miscellaneous

Notes: Field has been harvested, no issues

Photo 46



Location:

Time: 11:35 AM

Direction Facing: SW

Photo Type: Miscellaneous

Notes: No issues

Photo 47



Location:

Time: 11:36 AM

Direction Facing: NE

Photo Type: Erosion Control

Notes: Water drainage

Photo 48



Location:

Time: 11:37 AM

Direction Facing: SW

Photo Type: Miscellaneous

Notes: Slight sinkage on trench line

Photo 49



Location:

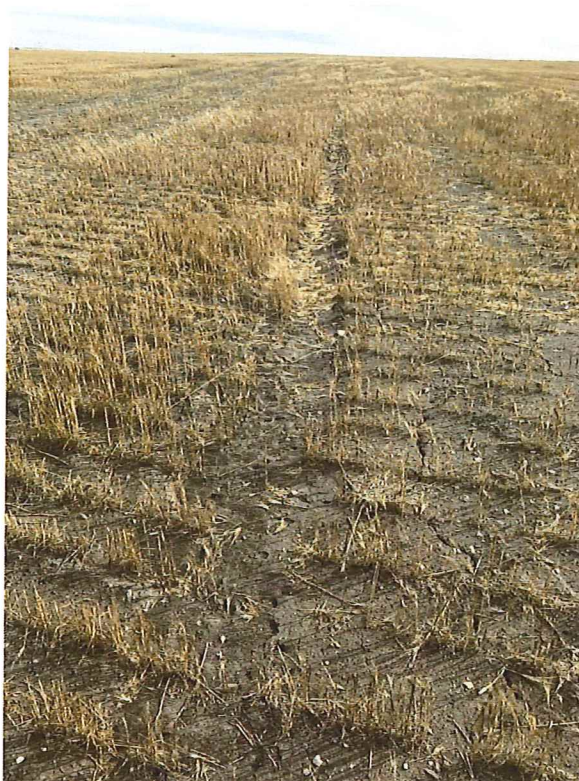
Time: 11:39 AM

Direction Facing: NE

Photo Type: Miscellaneous

Notes: Trench Line Sinkage

Photo 50



Location:

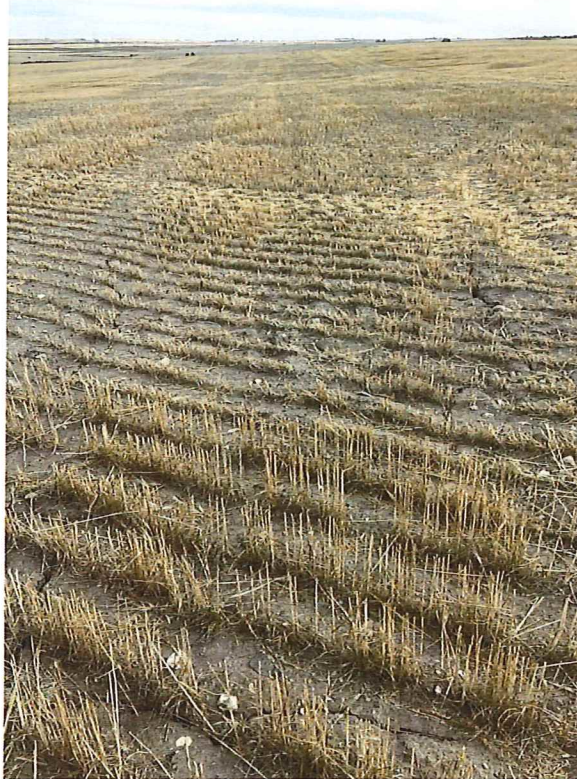
Time: 11:43 AM

Direction Facing: NE

Photo Type: Miscellaneous

Notes:

Photo 51



Location:

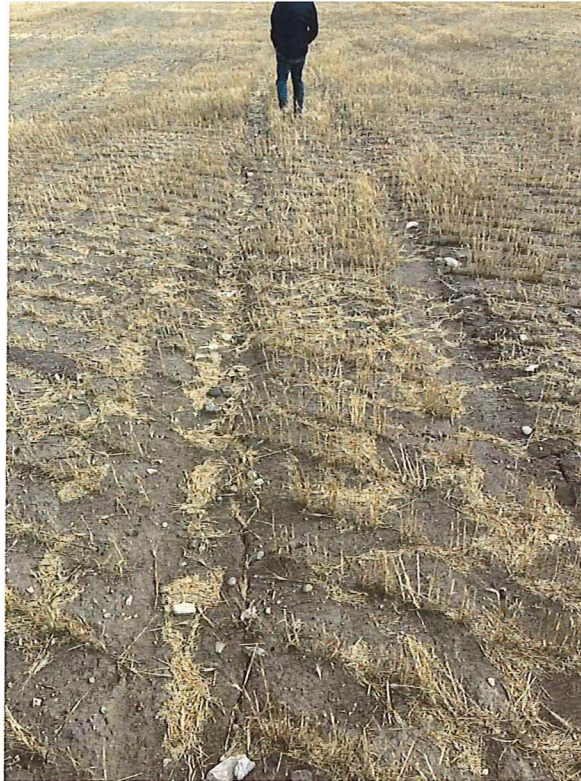
Time: 11:44 AM

Direction Facing: NE

Photo Type: Erosion Control

Notes: Sunken trench line, water way

Photo 53



Location:

Time: 11:47 AM

Direction Facing: NE

Photo Type: Erosion Control

Notes: Sunken trench line

Photo 54



Location:

Time: 11:50 AM

Direction Facing: SW

Photo Type: Miscellaneous

Notes: No issues

Photo 55



Location:

Time: 11:50 AM

Direction Facing: N

Photo Type: Miscellaneous

Notes: No issues

Photo 56



Location:

Time: 12:18 PM

Direction Facing: W

Photo Type: Miscellaneous

Notes: Sunk spot

Photo 57



Location:

Time: 12:20 PM

Direction Facing: N

Photo Type: Miscellaneous

Notes: No issues

Photo 58



Location:

Time: 12:20 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: No issues

Photo 59



Location:

Time: 12:21 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: Creek

Photo 60



Location:

Time: 12:26 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: No issues

Photo 61



Location:

Time: 12:30 PM

Direction Facing: S

Photo Type: Miscellaneous

Notes: No issues

Photo 62





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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.

