



Northern Natural Gas Company
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July 22, 2025

Via eFiling

Ms. Debbie-Anne Reese, Secretary
Federal Energy Regulatory Commission
888 First Street, N.E.
Washington, D.C. 20426

Re: Northern Natural Gas Company
Northern Lights 2025
Docket No. CP24-60-000
Biweekly Status Report No. 11

Dear Ms. Reese:

Pursuant to Condition 8 of the Order Issuing Certificate and Approving Abandonment issued by the Federal Energy Regulatory Commission February 19, 2025, Northern Natural Gas (Northern) hereby submits for filing in the above-referenced docket its biweekly environmental inspector report for the period ending July 20, 2025.

Any questions regarding the filing should be directed at the undersigned at (402) 398-7138.

Respectfully submitted,

/s/ Donna Martens

Donna Martens
Senior Regulatory Analyst

Northern Natural Gas Company
Northern Lights 2025 (CP24-60-000)
Biweekly Status Report No. 11
Period Ending July 20, 2025

PROJECT DESCRIPTION

Northern Natural Gas (Northern) will construct and operate the Project, which will consist of (1) a 3.00-mile extension of its 36-inch-diameter Lake Mills to Albert Lea E-line; (2) a 2.42-mile extension of its 30-inch-diameter Elk River 3rd branch line; (3) a non-contiguous 1.90-mile extension of its 30-inch-diameter Farmington to Hugo C-line¹; (4) a 1.28-mile extension of its 8-inch-diameter Tomah branch line loop; (5) minor modifications to its existing La Crescent compressor station; and (6) aboveground facilities including a launcher, receiver and tie-in valve settings. All Project components are located in various counties in Minnesota and Wisconsin.

FEDERAL AUTHORIZATION STATUS

Northern has received all federal and state permits required under federal law for the Project.

Lake Mills to Albert Lea E-line

Northern will construct and operate an approximately 3.00-mile extension of its 36-inch-diameter MNM80105 Lake Mills to Albert Lea E-line in Freeborn County, Minnesota. Northern will remove the existing aboveground valve setting located in Section 16, Township 101 North, Range 22 West (Section 16, T101N, R22W), Freeborn County, Minnesota. Northern will construct and operate an aboveground valve setting at the terminus of the new extension on the north side of 165th Street in Section 33, T102N, R22W, Freeborn County, Minnesota.

Environmental Training

One contractor will construct the Lake Mills to Albert Lea E-line and associated aboveground facilities. The environmental training totals listed below reflect all training conducted to date for this component.

On-site Contractor: K & K, Inc. (K&K)

Overall Construction Start Date: Commenced April 21, 2025

Environmental Training Conducted: This reporting period: 5 Total to date: 37

Construction Status: K&K continued welding 36-inch-diameter mainline pipe north of 140th Street. K&K continued sandblasting and coating mainline pipe north of 140th Street. K&K commenced receiving materials for the installation of a lake tank for hydrostatic pressure testing. Kodiak Field Services (Kodiak), subcontractor for K&K, commenced and completed lake tank installation north of 165th Street at mile post (MP) 34.2. BJD Farms, LLC (BJD), subcontractor for K&K, commenced filling the lake tank. K&K commenced and completed a mainline trench tie-in south of 165th Street at MP 34.11. K&K resumed lowering-in 36-inch-diameter mainline pipe south of 165th Street.

¹ The total pipeline length of the Farmington to Hugo C-line extension was reduced from 1.91 miles to 1.90 miles as described in Northern's implementation plan and response to the conditions of the order (condition 5) filed with the Federal Energy Regulatory Commission (FERC) March 6, 2025.

Northern Natural Gas Company
Northern Lights 2025 Expansion

Construction Modifications:

No construction modifications occurred during this reporting period.

Stream Crossings and Environmentally Sensitive Areas

No stream crossings or other environmentally sensitive areas were impacted during this reporting period.

Rain Events

Three rain events of 0.50 inch or greater occurred during this reporting period. One rain event of 0.52 inch occurred July 10, 2025. One rain event of 0.79 inch occurred July 17, 2025. One rain event of 1.00 inch occurred July 19, 2025. To date, the project has received 20.66 inches of precipitation.

Lake Mills to Albert Lea E-line Construction Progress			
Activity	Start Date	Completed	Notes
Survey	4/16/2025	99%	Survey is ongoing
Clearing	N/A	N/A	N/A
Grading	4/21/2025	5/30/2025	Grading is complete
Stringing	5/5/2025	5/19/2025	Stringing is complete
Welding	5/16/2025	95%	Welding is ongoing
Ditching	6/6/2025	45%	Trenching is ongoing
Lower-in	6/6/2025	36%	Lowering-in is ongoing
Backfill	6/6/2025	22%	Backfill is ongoing
Topsoil Restoration			
Removal of existing E-line tie-over valve setting	5/15/2025		K & K completed excavation
New Lake Mills tie-in valve setting	6/15/2025		K & K completed excavation
Clean-up			
Seeding	6/17/2025	20%	Seeding is ongoing
*Completed totals include either percentage completed or date all completed. All totals are approximate.			

Two-Week Projection

1. Continue welding line pipe
2. Continue sandblasting and coating
3. Continue trenching
4. Continue lowering-in
5. Continue backfill
6. Continue restoration

Lake Mills to Albert Lea E-line Related Spill

No spills occurred during this reporting period.

Elk River 3rd Branch Line

Northern will construct and operate an approximately 2.42-mile extension of its 30-inch-diameter MNB87703 Elk River 3rd branch line in Washington County, Minnesota. The new extension will be tied in below ground approximately 260 feet north of the current terminus in Section 36, T32N, R21W, Washington County, Minnesota; the existing aboveground valve setting located on the east side of July Avenue in Section 36, T32N, R21W, Washington County, Minnesota, will be removed. The downstream tie-in to both Northern's 20-inch-diameter MNB87701 Elk River branch line and 20-inch-diameter

MNB87702 Elk River loop will be completed with a new valve setting at the west side of Henna Avenue North in Section 3, T31N, R21W, Washington County, Minnesota.

Environmental Training

One contractor will construct the Elk River 3rd branch line extension. The environmental training totals listed below reflect all training conducted to date for this component.

On-site Contractor: Otis Minnesota Services, LLC (Otis)

Overall Construction Start Date: Commenced April 24, 2025

Environmental Training Conducted²: This reporting period: 0 Total to date: 84

Construction Status:

Otis continued welding and coating the line pipe. Otis completed welding bore pipe on horizontal directional drill (HDD) P4-2. Otis commenced and completed ditching, lowering-in of branch line pipe, and backfill from MP 3.3 to 3.4. Mears Group Inc. (Mears), a third-party HDD sub-contractor of Otis, continued the pilot pass on HDD P4-5 and completed the pilot pass and commenced the ream pass on HDD P4-2. The HDD noise report is attached. All sound levels are recorded as dBA.

Four inadvertent releases (IRs) of drilling fluids occurred during this reporting period. The IRs occurred during the pilot phase of HDD P4-5. Mears had four IRs in wetland feature ERT-W34 on July 16, 2025. The IRs occurred at 12:15 PM and a total of 1,720 gallons of drilling fluid surfaced within the boundary of the wetland. Three of the IRs were continuations from the past two IR locations, which were discussed with the agencies June 27, 2025. The cause of the IRs was loose soil and cobble. The drilling fluid mixture included MaxGel, water, Hydro Plex HDD, soda ash and Magma Fiber. The IRs were contained with silt fence, sandbags, and erosion control logs. The IRs were cleaned up with hand shovels, squeegees and a vacuum truck. Agency consultation regarding the IRs is described below in the Project-wide Agency Communications and Site Visits section

Construction Modifications: There were no construction modifications during this reporting period.

Stream Crossings and Environmentally Sensitive Areas

Commenced crossing wetland feature ERT-W34 by HDD June 29, 2029. See discussion above regarding IRs in wetland ERT-W34.

Rain Events

One rain event of 0.50 inch or greater occurred during this reporting period. One rain event of 0.80 inch occurred July 17, 2025. To date the project has received 13.08 inches of precipitation.

² The same contractor and crews are constructing the Elk River 3rd branch line and Farmington-to-Hugo C-Line extension projects. The numbers reflect the training provided to the one contractor and any subcontractors; however, are double counted between the two projects.

Northern Natural Gas Company
Northern Lights 2025 Expansion

Elk River 3rd Branch Line Construction Progress			
Activity	Start Date	Completed	Notes
Survey	4/10/2025	5/2/2025	Primary survey is complete
Clearing	4/28/2025	5/10/2025	Clearing is complete
Grading	5/6/2025	6/7/2025	Grading is complete
Stringing	5/15/2025	6/21/2025	Stringing is complete
Welding	5/16/2025	60%	Welding is ongoing
Ditching	7/9/2025	33%	Otis commenced ditching
HDD ERT P4-1			
HDD ERT P4-2	7/15/2025	40%	Mears completed the pilot pass and commenced the ream pass
HDD ERT P4-3	5/22/2025	6/14/2025	Mears completed the HDD
HDD ERT P4-4			
HDD ERT P4-5	6/20/2025	30%	Mears continued the pilot pass
HDD ERT P4-6	6/20/2025	6/25/2025	Mears completed the HDD
HDD ERT P4-7	7/01/2025	7/3/2025	Mears completed the HDD
Lower-in	7/9/2025	33%	Otis commenced lowering-in
Backfill	7/9/2025	23%	Otis commenced backfill
Topsoil Restoration			
Existing Elk River tie-over valve setting to be removed			
New Elk River tie-in valve setting			
Clean-up			
Seeding			
*Completed totals include either percentage completed or date all completed. All totals are approximate.			

Two-Week Projection

1. Continue welding, sandblasting and coating
2. Complete HDD P4-5 pilot
3. Complete HDD P4-2
4. Commence HDD P4-4
5. Continue stopple bypass at MP 1.0
6. Continue ditching, lowering-in and backfill
7. Commence restoration

Elk River 3rd Branch Line Related Spill

No spills occurred during this reporting period.

Farmington to Hugo C-Line Extension

Northern will construct and operate a non-contiguous 1.90-mile extension of its 30-inch-diameter Farmington to Hugo C-line in Washington County, Minnesota. The new extension will be tied in below ground within Northern's existing Hugo compressor station in Section 6, T31N, R20W, Washington County, Minnesota. The downstream tie-in to Northern's 24-inch-diameter MNM86501 B-line will be completed at a new below-ground³ valve setting in Section 7, T31N, R20W, Washington County, Minnesota.

³ As described in Northern's implementation plan and response to the conditions of the order (condition 5) filed with FERC March 6, 2025, the new downstream valve setting for the Farmington to Hugo C-line extension will be below ground in accordance with the landowner's request rather than aboveground as originally proposed.

Environmental Training

One contractor will construct the Farmington to Hugo C-line extension and associated aboveground facilities. The environmental training totals listed below reflect all training conducted to date for this component.

On-site Contractor: Otis Minnesota Services, LLC (Otis)

Overall Construction Start Date: May 3, 2025

Environmental Training Conducted²: This reporting period: 0 Total to date: 84

Construction Status:

Otis continued hydro-vacuum excavation within the Hugo compressor station and completed the concrete forms for the launcher and valves. Otis continued topsoil segregation on the Farmington-Hugo C-Line extension. Otis completed seeding and mulching all stored stockpiles. Otis continued stringing and welding line pipe. Otis continued stringing the bore pipe. Otis continued sand blasting line and bore pipe. Otis completed welding the split tee for the Farmington tie-over valve setting. Otis commenced setting up the sound wall for HDD location P4-1.

The young eagles have started to fly, but have yet to exhibit hunting behavior.

Construction Modifications: There were no construction modifications during this reporting period.

Stream Crossings and Environmentally Sensitive Areas

No stream crossings or other environmentally sensitive areas were impacted during this reporting period.

Rain Events

One rain event of 0.50 inch or greater occurred during this reporting period. A rain event of 0.75 inch occurred July 17, 2025. To date the project has received 12.17 inches of precipitation.

Farmington to Hugo C-Line Construction Progress			
Activity	Start Date	Completed	Notes
Survey	4/26/2025	5/5/2025	Survey is complete
Clearing	5/3/2025	5/9/2025	Clearing is complete
Grading	6/9/2025	65%	Grading is ongoing
Stringing	6/18/2025	55%	Stringing is ongoing
Welding	6/20/2025	50%	Welding is ongoing
Ditching			
HDD FAR P4-1			
HDD FAR P4-2			
Lower-in			
Backfill			
Topsoil Restoration			
Hugo compressor station launcher and valves	5/22/2025	40%	Otis continued hydro-vacuum activities and completed concrete forms
Farmington tie-over valve setting	6/17/2025	20%	Otis completed welding and coating the split tee
Clean-up			
Seeding			
*Completed totals include either percentage completed or date all completed. All totals are approximate.			

Two-Week Projection

1. Continue hydro-vacuum excavation and launcher installation in the Hugo compressor station
2. Continue topsoiling
3. Continue stringing
4. Continue welding
5. Continue sandblasting and coating
6. Commence HDD P4-1

Farmington to Hugo C-line Related Spill Totals

No spills occurred during this reporting period.

Tomah Branch Line Loop

Northern will construct and operate an approximately 1.28-mile extension of its 8-inch-diameter WIB11902 Tomah branch line loop in Monroe County, Wisconsin. The new extension will be tied in below ground to the current terminus of the Tomah branch line loop in Section 1, T17N, R4W, Monroe County, Wisconsin, and the existing tie-in valve setting and receiver facility at this location will be removed. The down-stream tie-in to Northern's 6-inch-diameter WIB11901 branch line is located in Section 6, T17N, R3W, Monroe County, Wisconsin.

Environmental Training

One contractor will construct the Tomah branch line loop. The environmental training totals listed below reflect all training conducted to date for this component.

On-site Contractor: K & K, Inc. (K&K)

Overall Construction Start Date: Commenced May 12, 2025

Environmental Training Conducted: This reporting period: 11 Total to date: 41

Construction Status: Flat Iron Drilling, LLC (Flat Iron), a third-party HDD sub-contractor of K&K, commenced and completed HDD P4-2. Flat Iron had one IR on July 8, 2025. The IR occurred in the upland area releasing approximately 100 gallons. K&K continued sandblasting and coating branch line pipe and bore pipe. K&K completed stringing branch line pipe. K&K commenced ditching, lowering-in and backfill. K&K commenced installation of trench breakers. Zielies Tree Service, LLC (Zielies) commenced hauling off tree stumps and logs from the right of way. Flat Iron commenced and completed HDD P4-1. All noise levels were documented and were below dBA limits. The HDD noise report is attached. All sound levels are recorded as dBA.

Construction Modifications: There were no construction modifications during this reporting period.

Stream Crossings and Environmentally Sensitive Areas

No stream crossings or other environmentally sensitive areas were impacted during this reporting period.

Rain Events

Five rain events of 0.50 inch or greater occurred during this reporting period. One rain event of 2.10 inches occurred July 7, 2025. During this reporting period the project received 2.10 inches of precipitation. To date, the project has received 19.85 inches of precipitation.

Northern Natural Gas Company
Northern Lights 2025 Expansion

Tomah Branch Line Loop Construction Progress			
Activity	Start Date	Completed	Notes
Survey	4/22/2025	98%	Survey is ongoing
Clearing	5/14/2025	5/23/2025	Clearing is complete
Grading	5/16/2025	98%	Grading is ongoing
Stringing	6/2/2025	7/9/2025	Stringing is complete
Welding	6/3/2025	80%	Welding is ongoing
Ditching	7/9/2025	45%	Ditching commenced
HDD TBL P4-1	7/15/2025	7/16/2025	P4-1 is complete
HDD TBL P4-2	7/7/2025	7/12/2025	P4-2 is complete
Lower-in	7/10/2025	45%	Lowering-in commenced
Backfill	7/14/2025	45%	Backfill commenced
Topsoil Restoration			
Remove Tomah branch line loop receiver facility and tie-over valve setting	6/11/2025	15%	K & K completed excavation
Tomah Tie-over valve setting	6/12/2025	10%	K & K completed excavation
Clean-up			
Seeding			
*Completed totals include either percentage completed or date all completed. All totals are approximate.			

Two-Week Projection

1. Complete topsoil segregation
2. Complete welding
3. Complete sandblasting and coating
4. Complete ditching
5. Complete lowering-in
6. Complete backfill
7. Commence cleanup and restoration

Tomah Branch Line Loop Related Spill Totals

No spills occurred during this reporting period.

La Crescent Compressor Station

Northern will complete minor aboveground facility modifications within its existing La Crescent compressor station facility. The site is located in Section 16, T104N, R5W, Houston County, Minnesota. The facility modifications will consist of replacing the current blind flanges with compressor cylinder end caps; Northern will not complete any ground disturbance at this site and all work will be completed inside the compressor building. There will be no change to the horsepower or emissions at the facility as a result of the Project.

Environmental Training

Archrock Services LP will make the La Crescent compressor station modifications. The environmental training totals listed below reflect all training conducted to date for this component.

On-site Contractor: Archrock Services LP

Overall Construction Start Date: Scheduled July 22, 2025

Environmental Training Conducted: This reporting period: 0 Total to date: 0

Construction Status: A pre-construction meeting was held July 16, 2025.

Construction Modifications: Construction has not commenced.

Stream Crossings and Environmentally Sensitive Areas

No stream crossings or other environmentally sensitive areas were impacted during this reporting period.

Rain Events

Northern will document rain events upon commencement of construction.

La Crescent Compressor Station Modifications Construction Progress			
Activity	Start Date	Completed	Notes
Compressor modifications			
*Completed totals include either percentage completed or date all completed. All totals are approximate.			

Two-Week Projection

1. Commence construction July 22, 2025
2. Complete construction

La Crescent Compressor Station Related Spill Totals

No spills occurred during this reporting period; construction has not commenced.

PROJECT-WIDE AGENCY COMMUNICATIONS AND SITE VISITS

On July 16, 2025, Northern reported the new IR location to the Minnesota Duty Officer, U.S. Army Corps of Engineers (USACE), and Rice Creek Watershed District. Northern provided photos, contained in this report, to the Minnesota Pollution Control Agency and Rice Creek Watershed District July 17, 2025. Northern responded to questions from the USACE regarding cleanup July 17, 2025.

There were no other agency communications or site visits during this reporting period.

PROJECT-WIDE LANDOWNER CONCERNS

No project-wide landowner concerns were raised during this reporting period.

PROJECT-WIDE NON-COMPLIANCE CONCERNS

There were no non-compliance concerns during this reporting period.

PHOTOS

Lake Mills to Albert Lea E-line



Facing northwest at MP 32.35, K&K welding mainline pipe



Facing northwest at MP 34.2, K&K receiving lake tank material

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Northern Lights 2025 Expansion



Facing south at MP 33.17, K&K sandblasting and coating mainline pipe south of 154th Street/County Road 80



Facing north at MP 34.2, Kodiak installing lake tank

Northern Natural Gas Company
Northern Lights 2025 Expansion



Facing southwest at MP 34.0, K&K lowering-in mainline pipe



Facing west at MP 34.11, K&K is completing mainline tie-in south of 165th Street

Northern Natural Gas Company
Northern Lights 2025 Expansion



Facing north at MP 34.2, BJD filling lake tank



Facing south at MP 33.5, K&K trenching south of 165th Street

Elk River 3rd Branch Line



Facing south near MP 3.3, lowering-in commenced



Facing east near MP 3.2, trenching continued

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Facing west near MP 3.3, backfill commenced



Facing west at HDD P4-2 exit, sound wall installation in progress

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Northern Lights 2025 Expansion



HDD P4-5 continued the pilot pass



HDD P4-2 completed the pilot pass

Northern Natural Gas Company
Northern Lights 2025 Expansion



Facing north on 180th North and Imperial Avenue, hydro-vacuum on site for IR response



Facing south near MP 2.67, southern terminus of IR drilling fluids contained with silt sock 110 feet from start of release

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Northern Lights 2025 Expansion



Facing east near MP 2.66, start of IR contained with silt sock



Facing east at MP 2.7, corrugated suction line for the IR response; each connection taped and wrapped with plastic



Facing south near MP 2.67, close up of wetland ditch after IR clean-up



Facing southwest near MP 2.66, contractor cleaned up the wetland ditch

Farmington-Hugo C-Line Extension



Facing west near MP 0.55, Otis continuing grading



Facing south near MP 0.01, Otis compacting soil around concrete piers

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Facing east near MP 1.9, Otis applying wax wrap after completion of the split tee



Facing north near MP 0.15, Otis continues welding bore pipe

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Northern Lights 2025 Expansion



Facing south near MP 0.02, Otis installing the launcher in Hugo compressor station



Facing west near MP 1.7, Otis continues stringing line pipe

Northern Natural Gas Company
Northern Lights 2025 Expansion



Facing south near MP 0.02, Otis continues hydro vacuum in Hugo compressor station



Facing west near MP 0.55, sound wall crew setting up at HDD P4-1 location

Tomah Branch Line Loop



Facing east near MP 3.1, contractor seeding and mulching hillside



Facing southeast near MP 3.43, Flat Iron completing pilot phase of HDD P4-2

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Facing east near MP 2.25, contractor lowering-in pipe



Facing east near MP 2.35, Zielies hauling out tree stumps

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Northern Lights 2025 Expansion



Facing east near MP 2.25, whitetail deer foraging on oats planted for topsoil stabilization



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-2	Date:	7/15/25	Footage:	103	Depth:	15.2	Phase:	Pilot
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force		Approved by DES

Person Walking Drill Path	Blake Fontenot	Role	EI	Frequency	Hourly	IR Detected	No
	Richard Benike		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA- 05					N/A	N/A	N/A	N/A	N/A	50.0				50.00	
NSA- 06					N/A	N/A	N/A	N/A	N/A	49.7				49.70	
NSA- 07					N/A	N/A	N/A	N/A	N/A	49.0				49.00	
NSA- 10					N/A	N/A	N/A	N/A	N/A	49.2				49.20	

P4-2-Mears HDD began the pilot at 15:30pm. The crew shut down at 18:00 for the day due to lightening and storm activity. Strong gusty winds hampered the decibal readings.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-2	Date:	7/16/25	Footage:	482	Depth:	38	Phase:	Pilot
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force		Approved by DES

Person Walking Drill Path	Blake Fontenot	Role	EI	Frequency	Hourly	IR Detected	No
	Richard Benike		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA- 05				N/A		50.1	50.5	49.2	49.9	49.6				49.86	
NSA- 06				N/A		50.0	51.0	49.9	50.1	49.7				50.14	
NSA- 07				N/A		47.1	48.0	47.7	48.7	49.0				48.10	
NSA- 10				N/A		47.0	47.8	48.6	49.7	49.5				48.52	

P4-2-Mears HDD continued the pilot today starting at 7.52 hrs. Rain and gusty winds throughout the day hampered decibal readings. The crew concluded drilling for the day at 1830 hrs.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-2	Date:	7/17/25	Footage:	1117.4	Depth:	30.46	Phase:	Pilot
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force		Approved by DES

Person Walking Drill Path	Blake Fontenot	Role	EI	Frequency	Hourly	IR Detected	No
	Richard Benike		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA- 05					N/A	50.5	49.8	50.1	50.2	49.9				50.10	
NSA- 06					N/A	50.4	49.9	49.7	50.0	49.2				49.84	
NSA- 07					N/A	49.4	48.5	49.8	49.6	49.9				49.44	
NSA- 10					N/A	49.0	49.5	49.6	49.7	49.7				49.50	

P4-2-Mears HDD continued the pilot today starting at 0744 hrs. The crew discontinued drilling at 1815 hrs to clean tracks and vehicles of mud. Persisant high winds again played havoc with decibal readings..



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension				WO: 1146979											
Drill:	P4-2	Date:	7/18/25	Footage:	1327	Depth:	210-foot	Phase:	Pilot						
Drilling Fluids:	MAXGEL							Approved by DES	Yes						
	Water							Approved by DES	Yes						
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber							Approved by DES	Yes						
Person Walking Drill Path	Austin Cleveland			Role	EI		Frequency	Hourly		IR Detected	No				
	Richard Benike				Contractor			Continuously							
					Contractor			Hourly							
NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-08				N/A		37.5	47.0	40.1	41.2	N/A	N/A	N/A		41.45	
NSA-09				N/A		39.6	44.8	38.9	39.3	N/A	N/A	N/A		40.65	
NSA-10				N/A		41.0	36.9	39.0	41.3	N/A	N/A	N/A		39.55	
NSA-11				N/A		38.5	36.9	45.2	41.6	N/A	N/A	N/A		40.55	
Notes: Drill completed pilot phase, 30-inch ream bit installed and ready to commence.															



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-2	Date:	7/19/25	Footage:	443.34	Depth:	0	Phase:	First ream
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Austin Cleveland	Role	EI	Frequency	Hourly	IR Detected	No
	Richard Benike		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-08				N/A		36.9	42.0	37.5	41.0	N/A	N/A	N/A		39.35	
NSA-11				N/A		39.4	42.5	37.4	39.9	N/A	N/A	N/A		39.80	
NSA-12				N/A		38.8	37.4	38.6	40.5	N/A	N/A	N/A		38.83	
NSA-13				N/A		36.4	35.3	43.8	41.4	N/A	N/A	N/A		39.23	

Notes: Contractor commenced reaming phase with 30-inch ream. Contractor reamed 14 joints.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension										WO: 1146979					
Drill:	P4-5	Date:	7/7/2025	Footage:	2188	Depth:	57-foot	Phase:	Pilot						
Drilling Fluids:	MAXGEL								Approved by DES	Yes					
	Water								Approved by DES	Yes					
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber								Approved by DES	Yes					
Person Walking Drill Path		Nelson Casey			Role	EI		Frequency	Hourly		IR Detected	No			
		Devon Hardy				Contractor			Continuously						
						Contractor			Hourly						
NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28				N/A	N/A		41.1	38.5	40.9	42.3	N/A	N/A		40.70	
NSA-29				N/A	N/A		37.9	36.3	38.2	38.5	N/A	N/A		37.73	
NSA-32				N/A	N/A		36.7	35.8	35.3	37.2	N/A	N/A		36.25	
NSA-33				N/A	N/A		33.1	36.5	34.4	35.9	N/A	N/A		34.98	
Notes: Drill commenced at 1000 to 1830, Wildlife in the area while conducting noise monitoring.															



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension								WO: 1146979							
Drill:	P4-5	Date:	7/8/2025	Footage:	2188	Depth:	57-foot	Phase:	Pilot						
Drilling Fluids:	MAXGEL												Approved by DES	Yes	
	Water												Approved by DES	Yes	
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber												Approved by DES	Yes	
Person Walking Drill Path		Nelson Casey			Role	EI		Frequency	Hourly		IR Detected	No			
		Devon Hardy				Contractor			Continuously						
						Contractor			Hourly						
NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28					N/A	N/A	N/A	39.9	41.9	40.2	N/A	N/A		40.67	
NSA-29					N/A	N/A	N/A	27.8	35.4	33.7	N/A	N/A		32.30	
NSA-32					N/A	N/A	N/A	34.5	32.0	34.3	N/A	N/A		33.60	
NSA-33					N/A	N/A	N/A	33.8	38.6	35.1	N/A	N/A		35.83	
Notes: Drill tripped back to entry 715 to 820 stopped to changed tooling started drill 1100 to 1830 tripping back to bottom, Wildlife in the area while conducting noise monitoring.															



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	7/9/2025	Footage:	2104	Depth:	78-foot	Phase:	Pilot
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Devon Hardy		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28					N/A	39.3	38.8	38.5	42.2	40.3	N/A	N/A		39.82	
NSA-29					N/A	38.1	37.6	33.2	36.7	35.9	N/A	N/A		36.30	
NSA-32					N/A	32.2	35.5	44.4	46.1	36.2	N/A	N/A		38.88	
NSA-33					N/A	35.6	37.1	45.1	44.9	35.6	N/A	N/A		39.66	

Notes: Drill tripped back to entry 720 TO 1830, Wildlife in the area while conducting noise monitoring, Land owners operating heavy equipment around NSA 32 and 33.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	7/10/2025	Footage:	2231	Depth:	78-foot	Phase:	Pilot
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Devon Hardy		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28				N/A		38.4	40.1	40.6	38.9	41.4	N/A	N/A		39.88	
NSA-29				N/A		38.2	35.7	37.4	33.8	37.1	N/A	N/A		36.44	
NSA-32				N/A		34.1	36.8	37.0	35.3	36.5	N/A	N/A		35.94	
NSA-33				N/A		32.9	35.6	36.8	34.5	35.9	N/A	N/A		35.14	

Notes: Drill tripped back to entry 720 TO 1830, Wildlife in the area while conducting noise monitoring.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	7/12/2025	Footage:	2347	Depth:	78-foot	Phase:	Pilot
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Devon Hardy		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28					N/A	37.9	41.2	38.7	42.3	N/A	N/A	N/A		40.03	
NSA-29					N/A	37.6	35.8	36.3	38.5	N/A	N/A	N/A		37.05	
NSA-32					N/A	35.2	37.5	35.6	36.7	N/A	N/A	N/A		36.25	
NSA-33					N/A	35.0	36.9	34.2	32.9	N/A	N/A	N/A		34.75	

Notes: Drill tripped back to entry 720 TO 1650, Wildlife in the area while conducting noise monitoring.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	7/14/2025	Footage:	2347	Depth:	78-foot	Phase:	Pilot
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Devon Hardy		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28					N/A	41.2	39.6	N/A	N/A	N/A	N/A	N/A		40.40	
NSA-29					N/A	38.7	37.4	N/A	N/A	N/A	N/A	N/A		38.05	
NSA-32					N/A	36.1	37.5	N/A	N/A	N/A	N/A	N/A		36.80	
NSA-33					N/A	34.3	36.8	N/A	N/A	N/A	N/A	N/A		35.55	

Notes: Drill tripped back to entry 720 TO 1230, Wildlife in the area while conducting noise monitoring.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	7/15/2025	Footage:	2347	Depth:	78-foot	Phase:	Pilot
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber		Approved by DES

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	No
	Devon Hardy		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28					N/A	39.3	40.8	42.6	38.5	39.9	N/A	N/A		40.22	
NSA-29					N/A	37.6	36.1	38.3	35.4	36.5	N/A	N/A		36.78	
NSA-32					N/A	33.2	35.4	34.8	37.3	34.2	N/A	N/A		34.98	
NSA-33					N/A	34.5	36.6	35.1	36.4	31.5	N/A	N/A		34.82	

Notes: Drill tripping to bottom 735 TO 545, Wildlife in the area while conducting noise monitoring.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL25 Elk River 3rd BL Extension

WO: 1146979

Drill:	P4-5	Date:	7/16/2025	Footage:	1956	Depth:	78-foot	Phase:	Pilot
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Drilling Fluids:	MAXGEL	Approved by DES	Yes
	Water	Approved by DES	Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber	Approved by DES	Yes

Person Walking Drill Path	Nelson Casey	Role	EI	Frequency	Hourly	IR Detected	Yes
	Devon Hardy		Contractor		Continuously		
			Contractor		Hourly		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-28					N/A	38.9	41.3	N/A	N/A	N/A	N/A	N/A		40.10	
NSA-29					N/A	39.1	37.2	N/A	N/A	N/A	N/A	N/A		38.15	
NSA-32					N/A	36.3	37.9	N/A	N/A	N/A	N/A	N/A		37.10	
NSA-33					N/A	37.6	36.1	N/A	N/A	N/A	N/A	N/A		36.85	

Notes: Drill tripping to bottom 720 TO 1215, Wildlife in the area while conducting noise monitoring. Contractor had four IRs simultaneously, three were at recurring locations and within containment, the fourth IR was in a drainage swale and consisted of 1750 gallons. The contractor shut down, contained and cleaned up all of the releases.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 TomahBL Loop Extension

WO: 1146966

Drill:	P4-1	Date:	7/15/2025	Footage:	169	Depth:	0	Phase:	First ream
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Drilling Fluids:	Super-Gel	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Kalen Evens		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA03						58.9			59.0					58.95	
NSA04						68.4			68.1					68.25	
NSA05						41.0			42.1					41.55	
NSA06						56.2			57.3					56.75	
NSA07						43.7			42.9					43.30	

Notes: P4-1 commenced the pilot at 8:30 AM and completed the pilot at 10:15 AM. First ream commenced at 2:45 PM and was completed at 3:20 PM. NSA readings may be higher at times due to traffic and landowner activities



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 TomahBL Loop Extension

WO: 1146966

Drill:	P4-1	Date:	7/16/2025	Footage:	169	Depth:	0	Phase:	Pullback
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Drilling Fluids:	Super-Gel	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	EI	Frequency	Hourly	IR Detected	No
	Kalen Evens		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA03						57.8								57.80	
NSA04						67.5								67.50	
NSA05						43.6								43.60	
NSA06						55.2								55.20	
NSA07						44.4								44.40	

Notes: P4-1 commenced the pullback 8:05 AM and completed the pullback at 8:30 AM. NSA readings were taken at 8:10 AM instead of 9:00 AM due to the pullback not being expected to take a full hour.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 TomahBL Loop Extension

WO: 1146966

Drill:	P4-2	Date:	7/7/2025	Footage:	180-ft	Depth:	15-ft	Phase:	Pilot
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Drilling Fluids:	Super-Gel	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Kalen Evens		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-12										43.1				43.10	
NSA-13										45.3				45.30	
NSA-14										46.2				46.20	
NSA-16										44.4				44.40	
NSA-34										40.6				40.60	

Notes: P4-2 commenced pilot phase at 3:20 PM near MP 3.5. Total Footage - 180-ft. NSA readings may be higher at times due to traffic, landowner activities, wildlife



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 TomahBL Loop Extension

WO: 1146966

Drill:	P4-2	Date:	7/8/2025	Footage:	340	Depth:	32.5	Phase:	Pilot
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Drilling Fluids:	Super-Gel	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	EI	Frequency	Hourly	IR Detected	Yes
	Kalen Evens		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-12						43.8	42.1	43.4						43.10	
NSA-13						45.2	44.3	48.5						46.00	
NSA-14						42.9	37.2	46.3						42.13	
NSA-16						47.3	39.9	47.9						45.03	
NSA-34						46.5	40.8	48.1						45.13	

Notes: P4-2 continued the pilot phase at 9:00 AM near MP 3.5. Total Footage 520- ft. NSA readings may be higher at times due to traffic, landowner activities, wildlife and wind. FlatIrons released approximately 100 gallons of drilling fluid near the exit side in an upland location. The release was contained with silt fence and cleaned up



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 TomahBL Loop Extension

WO: 1146966

Drill:	P4-2	Date:	7/9/2025	Footage:		Depth:		Phase:		Pilot
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Drilling Fluids:	Super-Gel	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	EI	Frequency	Hourly	IR Detected	No
	Kalen Evens		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-12						43.8	42.1							42.95	
NSA-13						45.2	44.3							44.75	
NSA-14						42.9	37.2							40.05	
NSA-16						47.3	39.9							43.60	
NSA-34						46.5	40.8							43.65	

Notes: P4-2 continued the pilot phase at 9:00 AM near MP 3.5. Total Footage 0-ft. Drill crew tripped out and is waiting on approval for a new drill profile.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 TomahBL Loop Extension

WO: 1146966

Drill:	P4-2	Date:	7/10/2025	Footage:	576	Depth:	0	Phase:	Pilot
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Drilling Fluids:	Super-Gel	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Kalen Evens		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-12							41.5							41.50	
NSA-13							39.7							39.70	
NSA-14							43.2							43.20	
NSA-16							44.1							44.10	
NSA-34							43.3							43.30	

Notes: P4-2 commenced and completed the new pilot near MP 3.5. Total Footage 576-ft. NSA readings may be higher at times due to traffic, landowner activities, wildlife and wind.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 TomahBL Loop Extension

WO: 1146966

Drill:	P4-2	Date:	7/11/2025	Footage:	576	Depth:	0	Phase:	First ream
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Drilling Fluids:	Super-Gel	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Kalen Evens		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-12							42.1	43.5						42.80	
NSA-13							45.3	44.8						45.05	
NSA-14							46.2	41.0						43.60	
NSA-16							44.5	39.9						42.20	
NSA-34							43.6	42.4						43.00	

Notes: P4-2 commenced the push ream near MP 3.5 at 8:15 AM and completed the ream at 1:15 PM. Total Footage - 576 ft. NSA readings may be higher at times due to traffic, landowner activities, wildlife and wind.



Environmental Procedure
Appendix M: Horizontal Directional Drill Daily Report

380.203m
1 of 1

Project: NL 25 Tomah BL Loop Extension

WO: 1146966

Drill:	P4-2	Date:	7/12/2025	Footage:	576	Depth:	0	Phase:	Pullback
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Drilling Fluids:	Super-Gel	Approved by DES	Yes
	Water	Approved by DES	Yes
		Approved by DES	Yes

Person Walking Drill Path	April Hansen	Role	El	Frequency	Hourly	IR Detected	No
	Kalen Evens		Contractor		Continuously		

NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nighttime Average
NSA-12								45.1						45.10	
NSA-13								44.9						44.90	
NSA-14								43.5						43.50	
NSA-16								42.8						42.80	
NSA-34								46.6						46.60	

Notes: P4-2 commenced the pullback near MP 3.5 at 1:10 PM and completed the pullback at 2:20 PM. Total Footage - 576 ft. NSA readings may be higher at times due to traffic, landowner activities, wildlife and wind.