



September 5, 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. 14

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 hereby submits for filing in the above-referenced docket its biweekly environmental inspector report for the period ending August 31, 2025.

The photographs provided in the attached biweekly report for the La Crescent compressor station depict specific components of the station illustrating operating details and have therefore been labeled "CUI//CEII - DO NOT RELEASE (CRITICAL ENERGY INFRASTRUCTURE INFORMATION)." Pursuant to 18 CFR section 388.112, Northern requests confidential and privileged treatment of the La Crescent compressor station photographs due to the confidential nature of the contents.

The person to be contacted regarding the request for privileged and confidential treatment is as follows:

Donna Martens Senior Regulatory Analyst Northern Natural Gas Company 1111 South 103rd Street Omaha, NE 68124-1000

Telephone: 402-398-7138 Email: donna.martens@nngco.com

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. 14 Period Ending August 31, 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: 0 Total to date: 40

Construction Status: K&K continued fabrication of 36-inch-diameter tie-in piping north of 165th Street. K&K continued sandblasting and coating mainline pipe north of County Road 80/154th Street². K&K continued restoration of detected holidays³ for the 36-inch-diameter mainline north of County Road 80/154th Street. K&K continued dewatering surface water from the right of way (ROW). K&K commenced bringing subsoil to grade north and south of County Road 80/154th Street. K&K continued stockpiling and removal of topsoil from over the D-line south of 140th Street. K&K commenced removal of silt fence along the working side of the topsoil pile north of 140th Street. K&K commenced 24-hour dewatering August 24, 2025.

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.

² County Road 80 is also referred to as 154th Street.

³ Holidays are spots on the pipeline where the coating is absent or thin.

K&K continued lowering-in 36-inch-diameter mainline pipe south of 140th Street. K&K commenced scoping damaged drain tiles at milepost (MP) 31.18 to ensure tile performance.

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

One rain event of 0.50 inch or greater occurred during this reporting period. One rain event of 2.16 inches occurred August 18, 2025. To date, the project has received 32.88 inches of precipitation.

Lake Mills to Alb	ert Lea E-line Co	onstruction Progr	ress
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	98%	Welding is ongoing
Ditching	6/6/2025	74%	Ditching is ongoing
Lower-in	6/6/2025	70%	Lowering-in is ongoing
Backfill	6/6/2025	52%	Backfill is ongoing
Topsoil Restoration			
Removal of existing E-line tie-over valve setting	5/15/2025	15%	K&K completed excavation
New Lake Mills tie-in valve setting	6/15/2025	15%	K&K completed excavation
Clean-up			
Seeding	6/17/2025	20%	Seeding is ongoing
*Completed tota	ls include either	percentage comp	pleted 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. Commence 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 Conducted⁴: This reporting period: 0 Total to date: 90

Construction Status:

Otis continued stringing, bending, welding and coating the line pipe. Mears Group Inc. (Mears), a third-party horizontal directional drill (HDD) sub-contractor for Otis, completed the 42-inch-diameter ream pass of HDD P4-5 and set up to commence the swab pass. Sound wall installation and equipment setup for HDD P4-1 was completed. Otis continued ditching and lowering-in. Ditching was completed from MP 1.69 to MP 1.90 and lowering-in continued from MP 1.69 to MP 1.90.

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

Wetlands ERT-W34 and ERT-W35, and stream ERT-S01 were crossed by HDD P4-5 during this reporting period.

Rain Events

No rain events of 0.50 inch or greater occurred during this reporting period. To date the project has received 18.63 inches of precipitation.

Elk River 3rd Bra	nch Line Constru	uction 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	72%	Welding is ongoing
Ditching	7/9/2025	36%	Otis continued ditching
HDD ERT P4-1			
HDD ERT P4-2	7/15/2025	8/15/2025	Mears completed the HDD
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	65%	Mears commenced the 42-inch-diameter ream 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	35%	Otis continued lowering-in

⁴ 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.

Backfill	7/9/2025	27%	Otis continued backfill
Topsoil	7/28/2025	10%	Otis commenced restoration
Restoration			
Existing Elk River tie-over valve setting to be removed			
New Elk River tie-in valve setting			
Clean-up			
Seeding			
*Completed total	s include either p	ercentage complet	ed or date all completed. All totals are approximate.

Two-Week Projection

- 1. Continue welding, sandblasting and coating
- 2. Complete HDD P4-5
- 3. Commence HDD P4-1 and HDD P4-4
- 4. Continue stopple bypass at MP 1.0
- 5. Continue ditching, lowering-in and backfill
- 6. Continue 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-ground⁵ valve setting in Section 7, T31N, R20W, Washington County, Minnesota.

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 Conducted⁴: This reporting period: 0 Total to date: 90

Construction Status:

Otis commenced backfill and hydrostatic pressure testing within the Hugo compressor station. Otis continued stringing and welding line pipe. Otis completed stringing the bore pipe. Otis continued sandblasting line and bore pipe. Otis completed setting up the sound wall for HDD P4-2. North Country Drilling, LLC (North Country) commenced the HDD P4-1 and P4-2.

⁵ 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.

The HDD noise report is attached. All sound levels are recorded as dBA.

North Country detected an inadvertent release (IR) of 270 gallons on HDD P4-1 within wetland FRM-W01 near MP 0.23 August 26, 2025. Two additional IRs were discovered August 28, 2025, in wetland FRM-W01 parallel to the previous release; 467 gallons and 2,042 gallons were released. The August 28 release locations are believed to be continual from the August 26 release. All IRs were contained and cleaned up utilizing a vacuum truck. All IRs were reported to the Minnesota Duty Officer, U.S. Army Corps of Engineers and Carnelian Marine St. Croix Watershed District.

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

Stream Crossings and Environmentally Sensitive Areas

Wetlands FRM-W01, FRM-W21, and FRM-W05 were crossed by HDD P4-1 during this reporting period. Wetlands FRM-W09 and FRM-W10 were crossed by HDD P4-2 during this reporting period.

Rain Events

No rain events greater than 0.5 inch occurred during this reporting period. To date the project has received 18.87 inches of precipitation.

Farmington to Hu	go C-Line Cons	struction Progress	s
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	8/15/2025	Grading is complete
Stringing	6/18/2025	91%	Stringing is ongoing
Welding	6/20/2025	91%	Welding is ongoing
Ditching	7/24/2025	18%	Otis continued ditching
HDD FAR P4-1	8/19/2025	30%	North Country commenced drilling
HDD FAR P4-2	8/26/2025	25%	North Country commenced drilling
Lower-in	7/24/2025	18%	Otis continued lowering-in
Backfill	7/28/2025	18%	Otis continued backfill
Topsoil Restoration	7/1/2025	10%	Otis continued topsoil restoration
Hugo compressor station launcher and valves	5/22/2025	75%	Otis commenced backfill and testing
Farmington tie- over valve setting	6/17/2025	50%	Otis completed installation of the valve
Clean-up			
Seeding			
*Completed totals	include either	percentage comp	pleted or date all completed. All totals are approximate.

Two-Week Projection

- 1. Continue backfill and testing in the Hugo compressor station
- 2. Continue stringing
- 3. Continue welding
- 4. Continue sandblasting and coating
- 5. Continue HDD P4-1 and HDD P4-2
- 6. Continue ditching
- 7. Continue lowering-in
- 8. Continue backfill
- 9. Continue restoration

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: 0 Total to date: 49

Construction Status: K&K successfully completed a nitrogen pressure test of the completed pipeline. K&K completed final tie-ins. K&K continued installation of permanent slope breakers. American Hydro Seed, LLC completed hydro seeding on the west end of the Tomah branch line loop. K&K commenced decompaction of the ROW, restored topsoil and drill seeded a cover crop in the agriculture field between MP 3.2 and MP 3.4. K&K completed sandblasting and coating. K&K completed installation of cathodic protection. K&K commenced seeding and mulching field berms. K&K completed backfill.

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

Two rain events of 0.50 inch or greater occurred during this reporting period. One rain event of 2.25 inches occurred August 10, 2025. One rain event of 1.10 inches occurred August 30, 2025. To date, the project has received 23.9 inches of precipitation.

Tomah Branch L	ine Loop Const	ruction 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	8/2/2025	Grading is complete							
Stringing	6/2/2025	7/9/2025	Stringing is complete							
Welding	6/3/2025	8/23/2025	Welding is complete							
Ditching	7/9/2025	8/4/2025	Ditching is complete							
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	8/4/2025	Lowering-in is complete							
Backfill	7/14/2025	8/30/2025	Backfill is complete							
Topsoil Restoration	8/9/2025	25%	Restoration ongoing							

Remove Tomah branch line loop receiver facility	6/11/2025	8/23/2025	K&K completed removal at receiver site
Remove Tomah Tie-over valve setting	6/12/2025	8/23/2025	K&K completed removal of valve setting
Clean-up	8/9/2025	30%	Clean-up ongoing
Seeding	8/14/2025	25%	Seeding ongoing
*Completed total	s include either	percentage compl	eted or date all completed. All totals are approximate.

Two-Week Projection

- 1. Continue restoration
- 2. Continue clean-up
- 3. Continue seeding
- 4. Request approval for in-service

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

On-site Contractor: Archrock

Overall Construction Start Date: July 22, 2025

Environmental Training Conducted: This reporting period: 0 Total to date: 2

Construction Status: Archrock completed installation of new supports and variable capacity compressor heads on August 27, 2025.

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

No rain event of 0.50 inch or greater occurred during this reporting period.

La Crescent Con	La Crescent Compressor Station Modifications Construction Progress												
Activity Start Date Completed Notes													
Compressor modifications	7/22/2025	8/27/2025	Compressor modifications are complete										
*Completed tota	*Completed totals include either percentage completed or date all completed. All totals are approximate.												

Two-Week Projection

1. Request approval for in-service

La Crescent Compressor Station Related Spill Totals

No spills occurred during this reporting period.

PROJECT-WIDE AGENCY COMMUNICATIONS AND SITE VISITS

On August 26, 2025, Clay Roesler, Tetra-Tech third-party inspector, completed a FERC environmental compliance inspection of the pipeline projects.

As noted above, Northern made notifications of three IRs of drilling fluids on the Farmington to Hugo Cline extension to the Minnesota Duty Officer, U.S. Army Corps of Engineers and Carnelian Marine St. Croix Watershed District August 26, 2025, and August 28, 2025.

PROJECT-WIDE LANDOWNER CONCERNS

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

PROJECT-WIDE NON-COMPLIANCE CONCERNS

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

PHOTOS

Lake Mills to Albert Lea E-line





Facing north at MP 33.3, K&K backfilling trench north of County Road 80/154th Street



Facing northeast at MP 33.5, K&K repairing detected mainline holidays



Facing north at MP 31.51, K&K completing mainline trench tie-in north of County Road 9/135th Street



Facing southwest at MP 31.35, K&K utilizing an empty jug to suspend suction intake while dewatering



Facing south at MP 34.1, K&K utilizing a dozer to dry ROW and bring subsoil to grade



Facing south at MP 31.65, K&K utilizing a track hoe to remove topsoil from over D-line south of County Highway 9/135th Street



Facing southeast at MP 31.7, K&K lowering-in mainline pipe south of 140th Street



Facing southeast at MP 31.18, K&K utilizing a camera to scope damaged drain tile south of County Road 80/154th Street

Elk River 3rd Branch Line



Facing east near MP 1.69, lowering-in ongoing



Facing east near MP 1.69, ditching ongoing



Facing west near MP 1.69, welding ongoing



Facing north at HDD P4-1, sound wall installation being completed



Facing west at HDD P4-5, reaming completed

Farmington-Hugo C-Line Extension



Facing north at MP 1.6, view of the vegetation growth on temporary restoration



Facing south at MP 1.15, view of Otis welding bore pipe for HDD P4-2



Facing west at MP 2.93, view of North Country containing and cleaning the IR on HDD P4-1 in wetland FRM-W01



Facing east at MP 0.16, view of Otis installing the test header in preparation for testing the 30-inch-diameter pipe in the Hugo compressor station



Facing west at MP 0.60, view of Otis stabilizing topsoil stockpiles



Facing east at MP 0.65, view of North Country commencing the pilot hole on HDD P4-2



Facing north at MP 0.5, view of North Country commencing the pilot hole on HDD P4-1

Tomah Branch Line Loop



Facing east near MP 3.35, K&K decompacting subsoil in agricultural field



Facing south near MP 2.2, K&K completing final tie-in



Facing east near MP 3.5, K&K installing test leads



Facing north near MP 3.35, K&K seeded and mulched field berm



Facing east near MP 3.4, K&K drill seeding cover crop in agricultural field



Facing east near MP 2.3, American Hydro Seed hydroseeding slope

La Crescent Compressor Station

Photos segregated and filed as privileged information



Northern Natural Gas

Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

	Project:	NL25 Farming	ton to Hugo C-	line Extension					WO:	1146	5968					
Drill:		P4-1	Date:	8/19/2025		Footage:		73.2		Depth:	10).8	Phase:		Pilot	
Drilling Flu	uids:	MAXGEL Water Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac U	IL, Clay Crusher	r, Seal Force	, Magma	Fiber					Approved Approved	by DES	Yes Yes Yes
	Person Wa	lking Drill Path	Austin Clevela Bryce Warner				R	El Contr	actor		Frequency	Hourly Continously Hourly			IR Detected	No
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	Nightime Average
	SA-2 SA-3			1			N/A N/A	N/A N/A		37.6 36.8			N/A N/A	N/A N/A	37.75 36.45	
	SA-5			1			N/A	N/A		45.8	46.1		N/A	N/A	45.95	
NS	SA-6				N/A	N/A	N/A	N/A		46.1	45.5	N/A	N/A	N/A	45.80	

Notes: Drill P4-1 commenced pilot phase and ended the day with a total of 72.3-feet drilled.



Project: NL25 Farmington to Hugo C-Line extension

Notes: Contractors continued pilot phase drilling 316.54-feet today and an overall total of 388.84-feet.

Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

WO:

1146968

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Drill:		P4-1	Date:	8/20/25		Footage:	316.5	4-feet	Depth:	54	1.4	Phase:		Pilot	
Drilling	Fluids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Righ	t Turn Supply, D	rill-Plex HDD, Pl	atinum Pac UL,	Clay Crusher, Se	al Force, Magn	na Fiber					Approved	by DES	Yes
			Austin Clevelar	nd				EI			Hourly				
	Person Walking Drill Path Bryce Warner						Role	Contractor		Frequency Continously				IR Detected	
								Contractor			Hourly				No
														Daytime	Nightime
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	Average	Average
1	NSA-02				N/A	44.1	44.8	41.3	43.5	N/A				43.43	
	NSA-03				N/A	39.0	42.6	38.6	41.4	N/A				40.40	
	NSA-05				N/A	45.0	47.1	40.2	39.8	N/A				43.03	
	NSA-06				N/A	42.9	42.7	39.9	45.1	N/A				42.65	



Notes: Contractors continued pilot phase drilling 83.1-feet today and an overall total of 471.94-feet.

Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

380.203m 1 of 1

	Projec	t: NL25 Farming	ton to Hugo C-L	ine extension				WO	: 114	6968]				
Drill:		P4-1	Date:	8/21/25		Footage:	83.1	-feet	Depth:	53	.72	Phase:		Pilot	
Drilling	Fluids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Righ	t Turn Supply, D	rill-Plex HDD, P	latinum Pac UL,	Clay Crusher, Se	eal Force, Magn	na Fiber					Approved	by DES	Yes
									_			_			
			Austin Clevela					EI			Hourly				
	Person V	Valking Drill Path	Bryce Warner				Role	Contractor		Frequency	Continously			IR Detected	
								Contractor			Hourly				No
														Daytime	Nightime
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	Average	Average
	NSA-02				N/A	43.9	44.2	N/A	42.5	N/A				43.53	
	NSA-03				N/A	42.4	41.9	N/A	38.0	N/A				40.77	
	NSA-05				N/A	45.6	47.2	N/A	38.4	N/A				43.73	
	NSA-06				N/A	39.1	46.8	N/A	42.8	N/A				42.90	



Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

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	Project: NL25 Farmington to Hugo C-line Extension							WO:	114	5968]				
Drill:		P4-1	Date:	8/22/2025		Footage:	50	8.1	Depth:	68	.69	Phase:		Pilot	
Drilling Fl	uids:	MAXGEL Water											Approved Approved	by DES	Yes Yes
	Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Cr							/lagma Fiber					Approved	l by DES	Yes
Person Walking Drill Path Zach Miller John Odom						Role	EI Contractor Contractor		Frequency	Hourly Continously Hourly			IR Detected	No	
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	Nightime Average
-	SA-2				N/A	N/A	N/A	41.5					N/A	42.40	
N	NSA-3 N/A N/A		N/A	39.6	44.7	39.0	N/A	N/A	N/A	41.10)				
N	SA-5				N/A	N/A	N/A	49.1	41.5	46.3	N/A	N/A	N/A	45.63	
N	ISA-6				N/A	N/A	N/A	48.8	39.9	38.6	N/A	N/A	N/A	42.43	

Notes: Drill P4-1 continued pilot phase drilling 508.1-feet today and an overall total of 980.04-feet.



Northern Natural Gas

Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

	Proje	Project: NL25 Farmington to Hugo C-Line Extension							114	6968]				
Drill:		P4-1	Date:	8/23/2025		Footage:	409	0.08	Depth:	68	3.38	Phase:		Pilot	
Drilling	-luids:	MAXGEL											Approved	d by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Rig	ht Turn Supply	, Drill-Plex HDD,	Platinum Pad	UL, Clay Crus	ner, Seal Force, M	agma Fiber					Approved	by DES	Yes
		•													•
			Austin Cleve	land				EI			Hourly	7			
	Person '	Walking Drill Pat	h Bryce Warn	er			Role	Contractor	Ī	Frequency	Continously	7		IR Detected	4
								Contractor	Ī		Hourly	7			No
-									_	•		_	•		•
														Daytime	Nightime
NSA#	Time	1:0	0 3:0	5:00	7:0	9:	00 11:00	13:00	15:00	17:00	19:00	21:00	23:00	Average	Average
	NSA-2				N/A	N/A	39.6	42.6	39.1	41.3	N/A	N/A	N/A	40.65	5
	NSA-3				N/A	N/A	39.1	36.4	38.5	40.0	N/A	N/A	N/A	38.50)
	NSA-5				N/A	N/A	45.6	48.2	47.5	45.9	N/A	N/A	N/A	46.80)
	NSA-6				N/A	N/A	43.6	39.9	44.2	38.6	N/A	N/A	N/A	41.58	3

Notes: Drill P4-1 commenced operations at 1045 and drilled 409.08-feet today, with a total of 1389.12-feet.



Northern Natural Gas

Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

	Project	:: NL25 Farming	ton to Hugo C-	Line Extension]	WO:	114	6968						
Drill:		P4-1	Date:	8/25/2025		Footage:	177	.43	Depth:	55	.26	Phase:		Pilot		
- ···· -		Ta a a v o E i												II DEC	Tu-	
Drilling F	Fluids:	MAXGEL											Approved		Yes	
		Water											Approved	by DES	Yes	
		Soda Ash Righ	nt Turn Supply,	Drill-Plex HDD,	Platinum Pac U	L, Clay Crushe	r, Seal Force, M	agma Fiber					Approved	by DES	Yes	
		•											•		•	
			Austin Clevela	and				EI			Hourly					
	Person W	alking Drill Path	Bryce Warner				Role Contractor Frequency Continously							IR Detected		
		_					Contractor Hourly								No	
									-	•		_	•			
														Daytime	Nightime	
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	Average	Average	
	NSA-2				N/A	41.6	38.3	46.8	43.4	38.5	N/A	N/A	N/A	41.72	!	
	NSA-3				N/A	39.8	39.5	43.8	46.6	39.1	N/A	N/A	N/A	41.76	5	
	NSA-5				N/A	43.1	44.6	39.9	47.5	41.6	N/A	N/A	N/A	43.34		
	NSA-6				N/A	42.4	42.9	39.5	37.4	37.7	N/A	N/A	N/A	39.98	3	

Notes: Drill P4-1 commenced operations at 0830, the contractors drilled 409.08-feet today, with a total of 1566.55-feet.



Northern Natural Gas Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

Pro	oject: NL25 Farm	ington to Hugo	C-Line Extension		WC						
Drill:	P4-1	Date:	8/26/2025	Footage:	330.05	Depth:	0	Phase:	Pilot		
Drilling Fluids:	MAXGEL								Approved by DES	Yes	
1	Water								Approved by DES	Yes	
	Soda Ash R	ight Turn Supp	oly, Drill-Plex HDD, Platinu	um Pac UL, Clay Crusher,	Seal Force, Magma Fiber				Approved by DES	Yes	
	<u>.</u>										
		Austin Clev	veland		EI	7	Hourly				
Perso	on Walking Drill Pa	ath Bryce War	ner	Role Contractor	7	Frequency Continously		IR Detected			
·					Contractor	7	Hourly	7			

														Daytime	Nightime
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	Average	Average
NS	SA-2				N/A	N/A	42.1	43.8	41.7	N/A	N/A	N/A	N/A	42.53	
NS	SA-3				N/A	N/A	39.8	38.9	42.4	N/A	N/A	N/A	N/A	40.37	
NS	SA-5				N/A	N/A	44.0	47.5	41.3	N/A	N/A	N/A	N/A	44.27	
NS	SA-6				N/A	N/A	38.9	41.3	38.5	N/A	N/A	N/A	N/A	39.57	

Notes: Drill P4-1 commenced operations, the contractors drilled 330.05-feet today, with a total of 1896.6-feet.



Northern Natural Gas

Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

	Projec	t: NL25 Farmi	ngto	n to Hugo C-L	ine Extension]	WO:	114	6968]				
Drill:		P4-1	D	oate:	8/27/2025		Footage:	4-	48	Depth:		0	Phase:		First ream	
Drilling I	-luids:	MAXGEL Water												Approved Approved	by DES	Yes Yes
		Soda Ash Ri	ght 1	Turn Supply, [Orill-Plex HDD,	Platinum Pac I	JL, Clay Crushe	r, Seal Force, N	lagma Fiber					Approved	by DES	Yes
	Austin Cleveland Person Walking Drill Path Bryce Warner					Role	EI Contractor Contractor		Frequency	Hourly Continously Hourly]		IR Detected	No		
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	Nightime Average
	NSA-2	N/A	N	I/A		N/A	N/A	43.6			N/A		N/A	N/A	43.03	
	NSA-3	N/A	N	I/A	N/A	N/A	N/A	41.8	44.6	42.5	N/A	N/A	N/A	N/A	42.97	
	NSA-5	N/A	N	I/A	N/A	N/A	N/A	39.5	39.9	42.7	N/A	N/A	N/A	N/A	40.70)
	NSA-6	N/A	N	I/A	N/A	N/A	N/A	37.1	46.2	44.4	N/A	N/A	N/A	N/A	42.57	

Notes: Drill P4-1 commenced operations at 0955, the contractors drilled 448-feet today, with a total of 448-feet.



380.203m

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Northern Natural Gas

Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

	Project:	NL25 Farming	ton to Hugo C-	Line Extension				WO:	114	6968]				
Drill:		P4-1	Date:	8/28/2025		Footage:	25	52	Depth:		0	Phase:		First ream	
		I													I
Drilling F	uids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac U	L, Clay Crushe	r, Seal Force, M	agma Fiber					Approved	by DES	Yes
			Austin Clevela	and				EI			Hourly				
	Person Wa	alking Drill Path	Bryce Warner	-			Role	Contractor	1	Frequency	Continously			IR Detected	
								Contractor			Hourly				Yes
									_		•	_			
														Daytime	Nightime
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	Average	Average
1	ISA-2	N/A	N/A	N/A	42.9	42.1	37.8	N/A	N/A	N/A	N/A	N/A	N/A	40.93	
1	ISA-3	N/A	N/A	N/A	43.5	37.7	41.2	N/A	N/A	N/A	N/A	N/A	N/A	40.80	
1	ISA-5	N/A	N/A	N/A	38.6	45.1	39.5	N/A	N/A	N/A	N/A	N/A	N/A	41.07	
	ISA-6	N/A	N/A	N/A	40.2	43.7	37.1	N/A	N/A	N/A	N/A	N/A	N/A	40.33	

Notes: Drill P4-1 commenced operations at 0805, the contractors reamed 252-feet today, with a total of 693-feet.



Northern Natural Gas

Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

	Project	: NL25 Farming	gton to Hugo C	-Line Extension				WO:	114	6968]				
Drill:		P4-1	Date:	8/29/2025		Footage:	25	51	Depth:		0	Phase:		First ream	
D.:!!!: E	de delle e	MANCEL												l h., DEC	Ves
Drilling F	luias:	MAXGEL Water											Approved Approved		Yes Yes
			nt Turn Supply	Drill-Plex HDD,	Platinum Pac U	L, Clay Crusher	, Seal Force, M	agma Fiber					Approved	•	Yes
		•										_			•
			Austin Clevel					EI			Hourly	1			
	Person W	alking Drill Path	Bryce Warne	r				Contractor		Frequency	Continously	<u> </u>		IR Detected	
								Contractor			Hourly				Yes
														Daytime	Nightime
NSA#	Time	1:00	3:0	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Average	Average
1	VSA-2	N/A	N/A	N/A	45.1	44.6	39.9	41.6	37.9	N/A	N/A	N/A	N/A	41.82	!
1	VSA-3	N/A	N/A	N/A	38.9	37.1	41.3	43.6	41.2	N/A	N/A	N/A	N/A	40.42	
1	NSA-5	N/A	N/A	N/A	35.7	39.5	45.2	44.8	41.8	N/A	N/A	N/A	N/A	41.40)
1	NSA-6	N/A	N/A	N/A	42.4	40.4	37.3	41.0	39.2	N/A	N/A	N/A	N/A	40.06	5

Notes: Drill P4-1 commenced operations at 0730, the contractors reamed 251-feet today, with a total of 944-feet.



Environmental Procedure *Appendix M: Horizontal Directional Drill Daily Report*

380.203m 1 of 1

Orill:		P4-2	Date:	8/26/2025		Fo	otage:	220	220.46 Depth: 41 Phase:					Pilot			
Orilling Fl	uids:	MAXGEL												Approved	h by DFS	Yes	
211111111111111111111111111111111111111	ulus.	Water												Approved	Yes		
			it Turn Supply.	Drill-Plex HDD.	Platinu	ım Pac UL.	Clav Crush	er, Seal Force, N	/lagma Fiber						Approved by DES		
		1				,	,	, ,						1 1	-,		
			Michael Huss	ong					EI			Hourly	7				
	Person \	Nalking Drill Path	Randy Tilley					Role Contractor Frequency Continously							ı		
	Colt Smith						7	Contractor			Hourly	7			No		
										-			_				
															Daytime	Nightime	
NSA#	Time	1:00	3:00	5:00		7:00	9:0	11:00	13:00	15	:00 17	00 19:0	0 21:0	0 23:00	Average	Average	
NS	SA-07				N/A	N,		43.2		N/A	4.	8.6 N/A	N/A	N/A	42.97	7	
NIC	SA-08				N/A	N,		46.9		N/A	4	5.3 N/A	N/A	N/A	47.23	3	
11/3					N/A	N,		45.2		N/A		5.2 N/A	N/A	N/A	44.57	'	
	SA-09				N/A	N,	/ A	45.8	120	N/A	4	1.8 N/A	N/A	N/A	44.47	• I	



380.203m 1 of 1

	Project	: NL25 Farming	gton to Hugo C-	Line Extension				WO:	114	6968					
Drill:		P4-2	Date:	8/27/2025		Footage:	506-	Feet	Depth:	73-1	eet	Phase:		Pilot	
		1											1		
Drilling F	luids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Righ	nt Turn Supply,	Drill-Plex HDD,	Platinum Pac	UL, Clay Crushe	r, Seal Force, N	lagma Fiber					Approved	by DES	Yes
			Michael Huss	ong				EI			Hourly	Ī			
	Person W	alking Drill Path	Randy Tilley				Role	Contractor		Frequency	Continously	Ī		IR Detected	
			Colt Smith					Contractor			Hourly]			No
														Daytime	Nightime
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	Average	Average
N	SA-07				N/A	N/A	46.8	43.7	45.2	44.8	N/A	N/A	N/A	45.13	
N	SA-08				N/A	N/A	42.0	40.9	43.4	42.7	N/A	N/A	N/A	42.25	
N	SA-09				N/A	N/A	46.6	47.3	46.2	45.3	N/A	N/A	N/A	46.35	
N	SA-10				N/A	N/A	43.9	41.8	44.4	42.6	N/A	N/A	N/A	43.18	

High traffic on 170th St N during sound monitoring. The contractors drilled 506-feet today, and an overall total of 727-feet.



380.203m 1 of 1

	Projec	t: NL25 Farming	ton to Hugo C	-Line Extension				WO:	114	6968					
Drill:		P4-2	Date:	8/28/2025		Footage:	409-	Feet	Depth:	71-	Feet	Phase:		Pilot	
Drilling Fl	uids:	MAXGEL											Approved	d by DES	Yes
		Water											Approved	d by DES	Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac	UL, Clay Crushe	r, Seal Force, N	1agma Fiber					Approved	d by DES	Yes
	Person W	Valking Drill Path	Michael Huss Randy Tilley Colt Smith	ong			Role	EI Contractor Contractor		Frequency	Hourly Continously Hourly			IR Detected	i No
														Daytime	Nightime
NSA#	Time	1:00	3:00	5:00	7:0	9:00	11:00	13:00	15:00	17:00	19:00	21:0	0 23:00	0 Average	Average
NS	SA-07				N/A	45.8	44.6	45.4	46.0	46.6	N/A	N/A	N/A	45.68	3
NS	80-A				N/A	43.4	44.1	45.3	46.8	44.2	N/A	N/A	N/A	44.76	5
NS	SA-09				N/A	45.9	47.3	46.3	46.7	45.8	N/A	N/A	N/A	46.40)
NS	SA-10				N/A	44.1	42.4	41.2	43.8	43.2	N/A	N/A	N/A	42.94	1

High traffic on 170th St N during sound monitoring. The contractors drilled 409-feet today, and an overall total of 1136-feet.



380.203m 1 of 1

	Proje	ct: NL25 Farm	ington to H	ugo C-Lin	e Extension				WO:	114	6968					
Drill:		P4-2	Date:	8/	/29/2025		Footage:	380.8	4-Feet	Depth:	57.92	!-Feet	Phase:		Pilot	
Drilling F	luids:	MAXGEL												Approved	d by DES	Yes
ı		Water												Approved	-	Yes
		Soda Ash F	Right Turn Si	upply, Dri	ill-Plex HDD,	Platinum Pa	ac UL, Clay Crushe	r, Seal Force, N	Magma Fiber					Approved	by DES	Yes
	Person '	Walking Drill P			5			Role	EI Contractor Contractor		Frequency	Hourly Continously Hourly			IR Detected	l No
															Daytime	Nightime
NSA#	Time	1	:00	3:00	5:00	7:	00 9:00	11:00	13:00	15:00	17:00	19:00	21:0	0 23:00	Average	Average
N:	ISA-07					N/A	46.3	44.3	45.2	47.2	46.2	N/A	N/A	N/A	45.84	ļ.
N:	ISA-08					N/A	44.2	46.8	45.6	46.2	43.4	N/A	N/A	N/A	45.24	ı
N:	ISA-09					N/A	45.8	44.2	44.3	46.4	45.2	N/A	N/A	N/A	45.18	3
N:	SA-10					N/A	43.6	40.1	38.7	41.3	38.9	N/A	N/A	N/A	40.52	

High traffic on 170th St N during sound monitoring. The contractors drilled 380.84 feet today, and an overall total of 1,516.9 feet.



380.203m 1 of 1

	Projec	t: NL25 Farming	ton to Hugo C-	Line Extension				WO:	114	6968]				
Drill:		P4-2	Date:	8/30/2025		Footage:	506.8	2-Feet	Depth:	Punch	ed Out	Phase:		Pilot	
		T .													
Drilling	Fluids:	MAXGEL											Approved	l by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Righ	nt Turn Supply,	Drill-Plex HDD,	Platinum Pac l	JL, Clay Crushe	r, Seal Force, N	/lagma Fiber					Approved	by DES	Yes
			Michael Huss	ong				EI]		Hourly	1			
	Person V	Valking Drill Path	Randy Tilley				Role	Contractor	1	Frequency	Continously	1		IR Detected	
			Colt Smith					Contractor			Hourly]			No
														Daytime	Nightime
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	Average	Average
	NSA-07				N/A	45.6	47.6	46.2	45.8	N/A	N/A	N/A	N/A	46.30	
	NSA-08				N/A	43.4	46.2	45.9	46.5	N/A	N/A	N/A	N/A	45.50	
	NSA-09				N/A	45.2	45.9	44.8	46.3	N/A	N/A	N/A	N/A	45.55	
	NSA-10				N/A	43.8	44.2	43.7	44.2	N/A	N/A	N/A	N/A	43.98	3

High traffic on 170th St N during sound monitoring. The contractors drilled 506.82 feet today, and an overall total of 2023.72 feet. Pilot drill punched out today at 1245.



380.203m 1 of 1

Drill:		P4-5	Date:	8/18/2025		Foo	tage:	283	38	Depth:	1	20	Phase:		First ream	
			•	•		•										
Drilling	Fluids:	MAXGEL												Арр	roved by DES	Yes
		Water												Арр	roved by DES	Yes
		Soda Ash Rig	ht Turn Suppl	y, Drill-Plex HDD	, Platini	um Pac UL,	Clay Crushe	r, Seal Force, I	Magma Fiber					Арр	roved by DES	Yes
										_			_			
			Nelson Case	ey					El			Hourly				
	Person \	Valking Drill Pat	h Zach Miller					Role	Contractor		Frequency	Continously			IR Detecte	d
			John Odom						Contractor			Hourly]			No
															Daytime	Nightime
NSA#	Time	1:0	3:0	5:00		7:00	9:00	11:00	13:00	15:00	17:00				23:00 Average	
ı	NSA-28				N/A		40.6	64.3	61.8	51.0	41.3	40.3	N/A	N/A	51.8	0 40.3
1	NSA-29				N/A		34.6	37.1	35.8	36.7	33.9	35.2	N/A	N/A	35.6	2 35.2
1	NSA-32				N/A		31.4	33.5	33.5	29.6	31.3	32.2	N/A	N/A	31.8	6 32.2
	NSA-33				N/A		35.0	30.9	33.1	31.9	28.6	31.4	1 N/A	N/A	31.9	0 31.4

Notes: Drill P4-5 commenced at 0845 and stopped operation at 1930.



	Projec	ct: NL25 Elk River	r 3rd BL Exten	sion]	V	VO:	114697	9					
Drill:		P4-5	Date:	8/19/2025		Footage:		0	Depth:		()	Phase:		First ream	
Drilling Fl	uids:	MAXGEL												Approved	by DES	Yes
		Water												Approved	by DES	Yes
		Soda Ash Righ	t Turn Supply	, Drill-Plex HDD,	, Platinum Pac	UL, Clay Crush	ner, Seal Force	, Magma Fil	per					Approved	by DES	Yes
														-		
			Nelson Casey	1				EI				Hourly]			
	Person W	Valking Drill Path					Role	Contracto				Continously	1		IR Detected	
			John Odom					Contracto	r			Hourly]			No
]												Nightime
NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13	3:00 1	5:00	17:00	19:00	21:0	0 23:00	Average	Average
NS	SA-28				N/A	N/A	N/A	N/A	N/A	N/A	4	54.6	N/A	N/A		54.60
NS	SA-29				N/A	N/A	N/A	N/A	N/A	N/A	4	36.4	N/A	N/A		36.40
NS	SA-32				N/A	N/A	N/A	N/A	N/A	N/A	4	30.7	N/A	N/A		30.70
NS	SA-33				N/A	N/A	N/A	N/A	N/A	N/A	4	33.9	N/A	N/A		33.90
			-													
Notes: Dr	rill P4-5 co	mmenced at 164	0 and stopper	d operation at 1	930.		,									
			o and stopped		330.											



	Proje	ct: NL25 Elk Rive	er 3rd BL Exter	nsion]		WO:		1146	5979]					
Drill:		P4-5	Date:	8/20/2025		Footage:		191		Depth:		ε	50	Phase	:		Second rean	1
																		T.,
Drilling F	luids:																· · · · · · · · · · · · · · · · · · ·	
		Soda Ash Rig	ht Turn Suppl	y, Drill-Plex HDD	, Platinum Pac	: UL, Clay Crus	her, Seal Ford	e, Magr	na Fiber							Appro	ved by DES	Yes
										7				7				
				y			_			1		·		4		l		'
	Person V	Nalking Drill Path	1 Zach Miller				Ro	ole Cont	ractor	1	Į	Frequency	Continously	1	1	l	IR Detecte	b
Drilling Fluids: MAXGEL Water Approved by DES Yes		No																
				1	1						Į	·			1	l	Daytime	Nightime
NSA#	Time	1:00	3:0	5:00	7:00	9:0	0 11:	00	13:00)	15:00	17:00	19:00)	21:00	23	:00 Average	Average
N	SA-28				N/A	N/A	N/A	N/A		N/A		N/A	61.4	N/A		N/A		61.40
N	SA-29				N/A	N/A	N/A	N/A		N/A		N/A	35.9	N/A		N/A		35.90
N	SA-32				N/A	N/A	N/A	N/A		N/A		N/A	31.2	N/A		N/A		31.20
N	SA-33				N/A	N/A	N/A	N/A		N/A		N/A	32.5	N/A		N/A		32.50
							-											
Notes: D	rill P4-5 cc	mmenced at 18	15 and stoppe	ed operation at 2	2030.													



	Projec	t: NL25 Elk Rive	er 3rd BL Exten	sion			l	WO:	114	6979]					
Drill:		P4-5	Date:	8/21/2025		Footage:	76	55	Depth:	6	50	Phase:		S	econd ream	
Drilling Fl	uids:	MAXGEL												Approve	d by DES	Yes
		Water												Approve	d by DES	Yes
		Soda Ash Rigi	ht Turn Supply	, Drill-Plex HDD	, Platinum Pac	UL, Clay Crush	er, Seal Force, I	Magma Fiber						Approve	d by DES	Yes
			Nelson Casey	,			1	EI	1		Hourly	1				
	Person W	alking Drill Path	n Zach Miller				Role	Contractor	1	Frequency	Continously	1			IR Detected	
			John Odom				1 1	Contractor	1		Hourly	1				No
			<u></u>						-		-	-				
		Т													Daytime	Nightime
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	0 Average	Average
NS	SA-28				N/A	61.3	59.7	63.2	59.1	58.0	58.7	N/A	N/A	4	60.26	58.70
N5	SA-29				N/A	37.3	34.9	35.2	35.5	36.4	36.9	N/A	N/A	4	35.86	36.90
NS.	SA-32				N/A	32.1	29.9	34.6	33.0	33.8	29.4	N/A	N/A	4	32.68	29.40
NS	SA-33				N/A	30.5	33.1	31.7	32.3	31.4	34.3	N/A	N//	4	31.80	34.30
					-							•				
Notes: Dr	ill P4-5 cor	mmenced at 181	15 and stoppe	d operation at 2	2030.											



Drill:		P4-5	Date:	8/22/2025		Foo	tage:	988]	Depth:	1:	15	Phase:		Second ream	
				1												
Drilling	Fluids:	MAXGEL												Appro	ved by DES	Yes
Ü		Water												Appro	ved by DES	Yes
		Soda Ash Rig	ht Turn Supply	, Drill-Plex HDD	, Platinu	ım Pac UL, (Clay Crusher	, Seal Force, M	agma Fiber					Appro	ved by DES	Yes
			Nelson Case	У				EI		Γ		Hourly	1			
	Person \	Walking Drill Path	Zach Miller					Role Co	ontractor		Frequency	Continously	1		IR Detected	d
		_	John Odom					Co	ontractor			Hourly	1			No
			•				•			-			•			
															Daytime	Nightime
NSA#	Time	1:00	3:0	0 5:00		7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23	:00 Average	Average
١	NSA-28				N/A	N/A		57.1	55.9	56.3	60.3	61.2	N/A	N/A	57.40	61.2
١	NSA-29				N/A	N/A		35.8	38.1	37.5	36.4	35.9	N/A	N/A	36.95	35.9
١	VSA-32				N/A	N/A		35.1	34.3	32.7	34.8	35.3	N/A	N/A	34.23	35.3
	VSA-33				N/A	N/A		29.4	30.7	34.5	32.6	34.1	N/A	N/A	31.80	34.1



	Projec	ct: NL25 Elk Rive	r 3rd BL Exten	sion			J	WO:	114	16979]				
Drill:		P4-5	Date:	8/23/2025		Footage:	11	148	Depth:	1	20	Phase:		Second ream	
Drilling Fl	uids:	MAXGEL											Approv	red by DES	Yes
		Water											Approv	red by DES	Yes
		Soda Ash Righ	nt Turn Supply	, Drill-Plex HDD	, Platinum	n Pac UL, Clay Crus	sher, Seal Force,	Magma Fiber					Approv	ed by DES	Yes
			Nelson Casey	<i>y</i>				EI			Hourly	1			
	Person V	Valking Drill Path	Zach Miller			,	Role	Contractor		Frequency	Continously	1		IR Detected	ı
			John Odom				┑	Contractor	1		Hourly	1			No
						,			•			-			
	T						Т			Ī			1	Daytime	Nightime
NSA#	Time	1:00	3:00	0 5:00	1	7:00 9:0	00 11:00	13:00	15:00	17:00	19:00	21:0	0 23:	:00 Average	Average
NS	SA-28				N/A	57	.8 60.9	57.1	. 58.8	8 N/A	N/A	N/A	N/A	58.65	
NS	SA-29				N/A	36	.3 37.1	35.4	38.3	3 N/A	N/A	N/A	N/A	36.78	
NS	SA-32				N/A	35	.2 29.9	31.3	33.7	7 N/A	N/A	N/A	N/A	32.53	
NS	SA-33				N/A	34	.3 34.5	32.6	31.4	4 N/A	N/A	N/A	N/A	33.20	
									<u>.</u>		•		_		
Notes: Dr	ill P4-5 co	mmenced at 080	00 and stoppe	d operation at 1	630.					,				,	



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	Proje	ct: NL25 Elk Rive	r 3rd BL Exter	sion					WO:	114	6979						
Drill:		P4-5	Date:	8/25/2025		Fo	ootage:	14	135	Depth:	1	20	Phase:		Se	econd ream	
Drilling F	luids:	MAXGEL												A	Approved	by DES	Yes
		Water												P	Approved	by DES	Yes
		Soda Ash Righ	nt Turn Supply	, Drill-Plex HDD,	Platinun	n Pac UL,	Clay Crusher	, Seal Force, N	lagma Fiber					A	Approved	by DES	Yes
	Person	Walking Drill Path	-	У				Role	EI Contractor		Frequency	Hourly Continously]			IR Detected	
			John Odom						Contractor			Hourly]				No
																Daytime	Nightime
NSA#	Time	1:00	3:0	5:00	D	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21	:00	23:00	Average	Average
N	ISA-28				N/A		56.3	58.1	56.3	55.7	55.9	58.6	N/A	N/A		56.46	58.6
N	ISA-29				N/A		37.3	38.1	34.6	36.5	37.9	37.3	N/A	N/A		36.88	37.3
N	ISA-32				N/A		34.1	32.9	35.4	36.2	31.9	30.8	N/A	N/A		34.10	30.8
N	ISA-33				N/A		28.9	31.9	30.1	32.7	34.1	33.2	N/A	N/A		31.54	33.2

Notes: Drill P4-5 commenced at 0800 and stopped operation at 2030.



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	Proje	ct: NL25 Elk Rive	r 3rd BL Exten	sion				WO:	1146	5979]				
Drill:		P4-5	Date:	8/26/2025		Footage:	14	35	Depth:	1	20	Phase:	S	econd ream	
Drilling F	luids:	MAXGEL											Approved	d by DES	Yes
		Water											Approved	d by DES	Yes
		Soda Ash Righ	nt Turn Supply	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crusher	r, Seal Force, M	agma Fiber					Approved	d by DES	Yes
	Person \	Walking Drill Path	Nelson Casey Zach Miller John Odom	/				El Contractor Contractor		Frequency	Hourly Continously Hourly			IR Detected	l No
NSA#	Time	1:00	3:0	0 5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime D Average	Nightime Average
N	ISA-28				N/A	56.5	58.1	55.6	57.6	50.8	56.2	N/A	N/A	55.72	
N	ISA-29				N/A	35.7	36.3	35.9	37.5	34.8	38.1	N/A	N/A	36.04	38.10
N	ISA-32				N/A	32.9	34.1	35.6	29.4	33.5	31.3	N/A	N/A	33.10	31.30
N	ISA-33				N/A	35.1	33.7	33.9	34.2	35.9	27.7	N/A	N/A	34.56	27.70

Notes: Drill P4-5 commenced at 0800 and stopped operation at 2015.



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	Projec	ct: NL25 Elk River	3rd BL Extens	ion				WO:	1146	5979							
Drill:		P4-5	Date:	8/27/2025		Footage:	19	45	Depth:	12	20	Phase:		Second ream			
Drilling Fluids: MAXGEL									Approved by DES Y		Yes						
		Water											Approved by DES Yes				
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crusher	r, Seal Force, M	lagma Fiber					Approve	d by DES	Yes		
			Nelson Casey					EI			Hourly	1					
	Person V	Walking Drill Path	Zach Miller				Role Contractor Frequency Continously					IR Detected					
			John Odom					Contractor Hourly							No		
			1									1		Daytime	Nightime		
NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:0	0 Average	Average		
N	ISA-28				N/A	56.7	56.2	57.1	58.0	56.9	55.4	N/A	N/A	56.98	55.40		
N	ISA-29				N/A	37.4	35.7	35.1	38.3	36.5	36.9	N/A	N/A	36.60	36.90		
N	ISA-32				N/A	34.0	28.8	33.4	35.4	31.4	32.3	N/A	N/A	32.60	32.30		
N	ISA-33				N/A	33.1	35.4	32.8	34.2	30.9	35.2	N/A	N/A	33.28	35.20		

Notes: Drill P4-5 commenced at 0800 and stopped operation at 2010.



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Project: NL25 Elk River 3rd BL Extension								WO:	114	6979						
Drill:		P4-5	Date:	8/28/2025		Footage:	232	27		Second ream						
Drilling Flu	ıids:	MAXGEL		Approve	Yes											
		Water											Approve	Approved by DES		
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crushe	r, Seal Force, Ma	agma Fiber					Approve	Approved by DES		
			Nelson Casey				ı	El	1		Hourly	1				
	Person Wa	alking Drill Path	Zach Miller				Role	Contractor	1	Frequency	Continously	1				
		_	John Odom					Contractor	1		Hourly					
			•						•			•			•	
														Daytime	Nightime	
NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:0	23:0	0 Average	Average	
NS	A-28				N/A	58.8	60.4	56.7	56.0	54.3	55.3	N/A	N/A	57.24	55.30	
NSA-29					N/A	38.3	35.4	36.1	37.7	35.5	34.1	N/A	N/A	36.60	34.10	
NSA-32					N/A	34.7	33.9	35.3	32.8	33.7	34.9	N/A	N/A	34.08	34.90	
NSA-33					N/A	33.0	31.5	32.6	30.0	34.2	35.6	N/A	N/A	32.26	35.60	

Notes: Drill P4-5 commenced at 0800 and stopped operation at 2030.



380.203m 1 of 1

Project: NL25 Elk River 3rd BL Extension]	WO:	114	6979					
Drill:		P4-5 Date: 8/29/2025 Footage: 2838 Depth: 0 Phase:											S		
Drilling Fluids: MAXGEL							Approved	Yes							
		Water Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac U	JL, Clay Crushe	r, Seal Force, N	lagma Fiber					'''		Yes Yes
	Person Wa	alking Drill Path	Nelson Casey Zach Miller John Odom				1	EI Contractor Contractor		Frequency	Hourly Continously Hourly			IR Detected	No
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	Nightime Average
NSA-28					N/A	N/A	N/A	60.2	60.6	58.9	60.1	N/A	N/A	59.90	1
NSA-29					N/A	N/A	N/A	35.3	37.1	34.7	35.9	N/A	N/A	35.70	35.90
NSA-32				1	-	N/A	N/A	31.3				N/A	N/A	31.43	
NSA-33					N/A	N/A	N/A	35.4	34.7	32.5	34.3	N/A	N/A	34.20	34.30

Notes: Drill P4-5 commenced at 0950 and stopped operation at 1030, started drill at 1240 and stopped drill at 2000. Mears HDD completed second ream.



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Project: NL25 Elk River 3rd BL Extension								WO:	114	6979]				
Drill:		P4-5	Date:	8/30/2025		Footage:	283	38	Depth:		0	Phase:	N	S	
Drilling Flu	ıids:	MAXGEL		Approved by DES		Yes									
		Water											Approved	Yes	
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crushe	r, Seal Force, Ma	agma Fiber					Approved by DES Ye		Yes
			Nelson Casey				E	EI	1		Hourly				
	Person Wa	alking Drill Path	Zach Miller				Role (Contractor		Frequency	Continously		IR Detected		
			John Odom				1 -	Contractor	1		Hourly	1	No		
									-			•			
														Daytime	Nightime
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	Average	Average
NS	A-28				N/A	52.4	64.8	47.4	57.3	N/A	N/A	N/A	N/A	55.48	3
NSA-29					N/A	35.9	36.7	35.9	34.8	N/A	N/A	N/A	N/A	35.83	
NSA-32					N/A	29.3	32.3	31.1	32.6	N/A	N/A	N/A	N/A	31.33	
NSA-33					N/A	30.7	35.1	33.5	34.7	N/A	N/A	N/A	N/A	33.50)

Notes: Drill P4-5 commenced at 0830 and stopped at 1610. Mears HDD tripped drill pipe back to exit.