



September 17, 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. 15

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 September 14, 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. 15 Period Ending September 14, 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 9/135th Street². K&K continued bringing subsoil to grade south of 165th Street. K&K continued stockpiling and removal of topsoil from over the D-line south and north of 140th Street. K&K continued 24-hour dewatering of ground water from damaged drain tiles. K&K continued lowering-in 36-inch-diameter mainline pipe south and north of 140th Street. K&K continued welding 36-inch-diameter mainline pipe north of County Road 9/135th Street at milepost (MP) 31.58. K&K continued backfilling the trench south of 140th Street and south of 165th Street. KK continued trenching north and south of 140th Street. K&K removed an 824-foot-long section of the new

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 9 is also referred to as 135th Street.

mainline pipe from the trench north of 140th Street from MP 32.67 to MP 32.87 due to insufficient clearance from the existing drain tile. Once the pipe was removed, K&K completed re-excavation of the trench to achieve proper depth below the drain tile. K&K completed mowing the extra temporary workspace west of the right of way (ROW) at MP 32.28. K&K completed installation of the 30-inch-diameter hot tap fitting for the D-line north of 165th Street at MP 34.2. K&K completed an eight-hour hydrostatic pressure test for test headers that will be used during mainline hydrostatic testing.

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 1.3 inches occurred September 10, 2025. To date, the project has received 34.29 inches of precipitation.

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	88%	Ditching is ongoing
Lower-in	6/6/2025	81%	Lowering-in is ongoing
Backfill	6/6/2025	62%	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

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 Conducted³: 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, commenced the pull back on HDD P4-5 and the bore pipe hung up 800 feet into the pull. Mears pulled the pipe back out of the bore hole and commenced additional 42-inch-diameter reaming passes to remediate hole conditions. North Country Drilling, LLC (North Country), a third-party HDD sub-contractor for Otis, completed pulling in the pipe for HDD P4-4 September 12, 2025, and commenced the 30-inch-diameter ream pass on HDD P4-1. Otis completed ditching, lowering-in and backfill from MP 1.69 to MP 1.90. Two inadvertent releases (IR) occurred during this reporting period. Mears had an IR of 100 gallons of drilling fluid surface in wetland ERT-W35 on HDD P4-5 September 4, 2025. Northern made notifications to the Minnesota Duty Officer, U.S. Army Corps of Engineers and Rice Creek Watershed District of the release to the wetland. North Country had an IR of 100 gallons of drilling fluid surface on HDD P4-1 in an upland location September 9, 2025. Both releases were contained and cleaned up per Northern's HDD Plan.

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

³ 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.

18.63 inches of precipitation.

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	75%	Welding is ongoing
Ditching	7/9/2025	40%	Otis continued ditching
HDD ERT P4-1	9/6/2025	54%	North Country completed the first ream pass
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	9/6/2025	9/12/2025	North Country completed the HDD
HDD ERT P4-5	6/20/2025	65%	Mears continued the 42-inch-diameter swab 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	40%	Otis continued lowering-in
Backfill	7/9/2025	35%	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		 	eted or date all completed. All totals are approximate.

Two-Week Projection

- 1. Continue welding, sandblasting and coating
- 2. Complete HDD P4-5
- 3. Complete HDD P4-1
- 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-ground⁴ valve setting in Section 7, T31N, R20W, Washington County, Minnesota.

⁴ 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 Conducted⁴: This reporting period: 0 Total to date: 90

Construction Status:

Otis continued backfill and hydrostatic pressure testing within the Hugo compressor station. Otis continued stringing and welding line pipe. Otis continued sandblasting line and bore pipe. North Country continued HDD P4-1 and P4-2.

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 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 19.42 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	92%	Stringing is ongoing
Welding	6/20/2025	92%	Welding is ongoing
Ditching	7/24/2025	18%	Otis continued ditching
HDD FAR P4-1	8/19/2025	75%	North Country continued drilling
HDD FAR P4-2	8/26/2025	72%	North Country continued 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%	Topsoil restoration will resume after HDDs are complete
Hugo compressor station launcher and valves	5/22/2025	78%	Otis continued backfill and testing
Farmington tie- over valve setting	6/17/2025	51%	Otis completed installation of the valve
Clean-up			
Seeding			
*Completed totals	include either	percentage comp	oleted 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. Complete 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 continued restoring topsoil. K&K continued harley raking, drill seeding and mulching the ROW. American Hydroseeding, LLC (American Hydro Seed) completed hydro seeding on the east end of the Tomah branch line loop. K&K commenced removal of road approaches. K&K continued cleaning up construction debris from the ROW. K&K continued hauling off mats, skids and equipment from staging area. K&K completed installation of all permanent slope breakers. K&K completed topsoil restoration on west side of Gardner Avenue.

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 events of 0.50 inch or greater occurred during this reporting period. 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	95%	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	85%	Clean-up ongoing
Seeding	8/14/2025	85%	Seeding ongoing
*Completed total	s include either	percentage comp	leted or date all completed. All totals are approximate.

Two-Week Projection

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

La Crescent Compressor Station

Northern completed minor aboveground facility modifications within its existing La Crescent compressor station facility. The facility modifications consisted of the replacement of the current blind flanges with compressor cylinder end caps.

Archrock Services LP (Archrock) made the modifications at the La Crescent compressor station.

Construction Status: Construction was completed August 27, 2025. FERC granted Northern's request to place the facility in service September 15, 2025.

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

PROJECT-WIDE AGENCY COMMUNICATIONS AND SITE VISITS

As noted above, on September 4, 2025, Northern made notifications of one IR with drilling fluids impacting a wetland on the Elk River 3rd branch line extension to the Minnesota Duty Officer, U.S. Army Corps of Engineers and Rice Creek Watershed District.

On September 15 2025, FERC approved Northern's request to use a temporary evacuation system for a

continuous 48-hour duration within the Hugo compressor station located in Washington County, Minnesota, to accommodate tie-in activities for the Elk River 3rd branch.

On September 9, 2025, Northern requested approval to place the La Crescent compressor station into service. FERC granted the request September 15, 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 33.7, K&K backfilling trench south of 165th Street



Facing southwest at MP 33.8, K&K bringing subsoil to grade south of 165th Street



Facing north at MP 32.4, K&K removing topsoil from over D-line north of 140th Street



Facing north at MP 32.42, K&K trenching north of 140th Street



Facing northwest at MP 31.6, K&K sandblasting and coating north of County Road 9/135th Street



Facing north at MP 32.38, K&K lowering-in mainline pipe north of 140th Street



Facing north at MP 34.2, K&K fabricating 36-inch-diameter tie-over piping north of 165th Street



Facing north at MP 34.2, hydrostatic test in progress north of 165th Street

Elk River 3rd Branch Line



Facing east near MP 1.87, lowering-in ongoing



Facing east near MP 1.9, backfill ongoing



Facing south near MP 3.4, welding ongoing



Facing south, near MP 1.8, sandblasting and coating ongoing



HDD P4-4 completed the pull



HDD P4-1 commenced the ream pass

Farmington-Hugo C-Line Extension



Facing northwest near MP 0.55, North Country continuing HDD P4-1



Facing south near MP 1.15, Otis sandblasting bore pipe for HDD P4-2



Facing east near MP 0.1, Otis preparing hydrostatic test on fabrication for the Hugo compressor station



Facing west near MP 0.23, previous IR on HDD P4-1



Facing south near MP 1.83, temporary vegetation growth



Facing northeast near MP 0.65, North Country continued drill activities on HDD P4-2



Facing north near MP 0.45, North Country conducting the bore path inspection on HDD P4-1

Tomah Branch Line Loop



Facing east near MP 3.2, K&K harley raking row



Facing southeast near MP 2.4, wildlife utilizing restored ROW



Facing west near MP 3.2, hydroseeding completed



Facing east near MP 2.75, restoration completed in upland area



Facing west near MP 2.5, K&K restoring topsoil



Facing west near MP 2.5, K&K installing slope breakers



380.203m 1 of 1

	Proje	ct: NL25 Farmi	ngton to Hi	ugo C-Li	ne Extension]		WO:	114	6968]				
Drill:		P4-1	Date:	9	9/2/2025			Footage:		20-fe	eet	Depth:		0	Phase:		First ream	
Drilling F	luids:	MAXGEL														Approved	by DES	Yes
		Water														Approved	by DES	Yes
		Soda Ash Ri	ght Turn Si	upply, D	rill-Plex HDD	, Platinun	n Pac U	L, Clay Crushe	r, Seal Ford	ce, Ma	gma Fiber					Approved	by DES	Yes
			Austin (Clevelan	d					E	El			Hourly				
	Person \	Walking Drill Pa	th Bryce W	Varner]	<u> </u>	Contractor Contractor]	Frequency	Continously Hourly	1		IR Detected	l No
						T						- 1			- 1		Daytime	Nightime
NSA#	Time	1:	00	3:00	5:0	0	7:00	9:00	1	1:00	13:00	15:00	17:00	19:00	21:00	23:00	Average	Average
١	NSA-2	N/A	N/A	١	N/A	N/A		N/A	N/A	Ν	N/A	N/A	N/A	41.2	N/A	N/A		41.20
l l	NSA-3	N/A	N/A	١	N/A	N/A		N/A	N/A	Ν	N/A	N/A	N/A	44.6	N/A	N/A		44.60
١	NSA-5	N/A	N/A	١	N/A	N/A		N/A	N/A	N	N/A	N/A	N/A	38.9	N/A	N/A		38.90
١	NSA-6	N/A	N/A	١	N/A	N/A		N/A	N/A	N	N/A	N/A	N/A	42.0	N/A	N/A		42.00

Notes: Drill P4-1 commenced operations at 1730, the contractors drilled 20-feet today, for a total of 1121.5-feet.



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

	Project	:: NL25 Farmii	ngton to Hug	go C-Line	e Extension				WO:	1146	5968					
Drill:		P4-1	Date:	9/3	3/2025		Footage:	60.5	-feet	Depth:		0	Phase:		First ream	
Drilling F	luids:	MAXGEL												Approve	d by DES	Yes
		Water												Approve	d by DES	Yes
		Soda Ash Ri	ght Turn Sup	ply, Dril	ll-Plex HDD, I	Platinum Pac U	L, Clay Crusher	, Seal Force, M	agma Fiber					Approve	d by DES	Yes
	Person W	alking Drill Pa	Austin Cle th Bryce Wa					Role	Contractor Contractor		Frequency	Hourly Continously Hourly			IR Detected	No
NSA#	Time	1:0	00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime O Average	Nightime Average
1	NSA-2	N/A	N/A	N/	/A	42.3	48.1	42.7	48.5	42.1	49.2	N/A	N/A	N/A	45.48	
١	NSA-3	N/A	N/A	N/	/A	39.8	44.3	41.6	48.1	46.9	48.4	N/A	N/A	N/A	44.85	5
1	NSA-5	N/A	N/A	N/	/A	43.8	45.0	40.2	46.0	43.3	48.3	N/A	N/A	N/A	44.43	3
1	NSA-6	N/A	N/A	N/	/A	47.3	46.7	38.4	39.4	42.1	43.8	N/A	N/A	N/A	42.95	5

Notes: Drill P4-1 commenced operations at 0720, the contractors reamed 60.5-feet today, for a total of 1182-feet.



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:	9/4/2025		Footage:	409-	feet	Depth:		0	Phase:		First ream		
5 ili: El		INANVCE!												Lh. DEC	lv	
Drilling Flu	ııas:	MAXGEL											Approved		Yes	
		Water											Approved		Yes	
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac U	L, Clay Crusher	r, Seal Force, M	agma Fiber					Approved	l by DES	Yes	
			Austin Clevela	nd				El			Hourly					
	Person Wa	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	
N	SA-2	N/A	N/A	N/A	N/A	38.1	39.2	45.5	N/A	N/A	N/A	N/A	N/A	40.93		
N	SA-3	N/A	N/A	N/A	N/A	42.6	45.6	42.8	N/A	N/A	N/A	N/A	N/A	43.67		
N	NSA-5					45.0	42.2	42.6	N/A	N/A	N/A	N/A	N/A	43.27		
N	NSA-6 N/A N/A N/A N/A 43						43.4	45.7	N/A	N/A	N/A	N/A	N/A	43.37		

Notes: Drill P4-1 commenced operations at 0824, the contractors reamed 409-feet today, for a total of 1543-feet.



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

	Projec	t: NL25 Farmi	ngton to Hu	go C-Line E	ktension				WO:	1146	6968					
Drill:		P4-1	Date:	9/5/2	2025		Footage:	94.5	-feet	Depth:		0	Phase:	S	econd ream	
Drilling Fl	luids:	MAXGEL												Approved	d by DES	Yes
		Water												Approved	d by DES	Yes
		Soda Ash Ri	ght Turn Sup	pply, Drill-P	lex HDD, I	Platinum Pac l	JL, Clay Crusher	, Seal Force, N	lagma Fiber					Approved	by DES	Yes
	Person V	Valking Drill Pa	Austin Cl ath Bryce Wa						EI Contractor Contractor		Frequency	Hourly Continously Hourly			IR Detected	l 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/A	N/A		N/A	44.6	45.1	40.7	39.6			N/A	N/A	41.52	_
	NSA-2	N/A	N/A	N/A		N/A	39.6	38.8	_	38.4			N/A	N/A	40.82	
	NSA-5	N/A	N/A	N/A		N/A	48.1	43.1	42.6	41.5	42.6	-	N/A	N/A	43.58	
						39.9	42.6	44.0	42.7	43.6	-	N/A	N/A	42.56		

Notes: Drill P4-1 commenced operations at 0814, the contractors completed 94.5-feet today, for a total of 1638-feet. Second ream completed 79-feet for daily and total.



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

	Proje	t: NL25 Farm	ningt	on to Hugo C-	Line Extension				WO:	114	6968]				
Drill:		P4-1		Date:	9/6/2025		Footage:	34	6.5	Depth:		0	Phase:	S	econd ream	
Drilling	Fluids:	MAXGEL												Approved	d by DES	Yes
		Water												Approved	by DES	Yes
		Soda Ash I	Right	Turn Supply,	Drill-Plex HDD,	Platinum Pac U	L, Clay Crusher	, Seal Force, M	agma Fiber					Approved	by DES	Yes
													_			
				Austin Clevela					EI			Hourly	1			
	Person \	Walking Drill F	Path	Bryce Warner				Role	Contractor		Frequency	Continously			IR Detected	I
									Contractor			Hourly				No
															Daytime	Nightime
NSA#	Time	1	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:0	23:00	Average	Average
	NSA-2	N/A		N/A	N/A	N/A	42.1	48.6	39.6	41.2	44.4	N/A	N/A	N/A	43.18	3
	NSA-3	N/A		N/A	N/A	N/A	37.6	44.4	43.5	45.2	42.6	N/A	N/A	N/A	42.66	5
	NSA-5	N/A		N/A	N/A	N/A	43.4	42.1	43.7	43.8	48.8	N/A	N/A	N/A	44.36	5
	NSA-6 N/A N/A N/A N/A 41				41.6	43.9	43.3	39.6	39.7	N/A	N/A	N/A	41.62	2		

Notes: Drill P4-1 commenced operations at 0800, the contractors completed 346.5-feet today, for a total of 409.5-feet of second ream phase.



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

	Project	: NL25 Farming	gton to Hugo (-Line Extension				WO:	114	6968					
Drill:		P4-1	Date:	9/8/2025		Footage:	315-	feet	Depth:)	Phase:	Se	econd ream	
(F-															
Drilling	Fluids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Rig	ht Turn Supply	, Drill-Plex HDD,	Platinum Pac U	L, Clay Crusher	r, Seal Force, M	agma Fiber					Approved	by DES	Yes
			Austin Cleve	and				El]		Hourly	1			
	Person W	alking Drill Patl	Bryce Warne	r			Role Contractor Frequency Continously						IR Detected		
							Contractor Hourly							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
	NSA-2	N/A	N/A	N/A	N/A	N/A	44.3	42.1	42.7	41.5	N/A	N/A	N/A	42.65	
	NSA-3	N/A	N/A	N/A	N/A	N/A	46.2	41.1	43.7	43.5	N/A	N/A	N/A	43.63	
	NSA-5 N/A N/A N/A N/A N/A				N/A	45.1	45.6	48.1	45.7	N/A	N/A	N/A	46.13		
	NSA-6 N/A N/A N/A N/A N/A				N/A	38.4	40.0	37.8	39.7	N/A	N/A	N/A	38.98		

Notes: Drill P4-1 commenced operations at 0922, the contractors completed 315-feet today, for a total of 724.5-feet of second ream phase.



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:	9/10/2025		Footage:	315-	feet	Depth:		0	Phase:	Si	econd ream	
													1		
Drilling F	luids:	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, Ma	agma Fiber					Approved	by DES	Yes
		-													•
			Austin Clevela	and				EI			Hourly				
	Person Wa	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
1	NSA-2	N/A	N/A	N/A	N/A	42.1	43.5	40.6	45.1	47.5	N/A	N/A	N/A	43.76	i
1	NSA-3				44.6	41.8	41.4	44.2	44.5	N/A	N/A	N/A	43.30		
1	NSA-5 N/A N/A N/A N/A 47				47.7	46.4	43.6	46.4	47.6	N/A	N/A	N/A	46.34		
1	NSA-6 N/A N/A N/A N/A 41.				41.0	39.0	44.5	38.7	42.3	N/A	N/A	N/A	41.10		

Notes: Drill P4-1 commenced operations at 0830, the contractors completed 315-feet today, for a total of 1386-feet of second ream phase.



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

	Project	: NL25 Farming	gton to Hugo (-Line Extension]	WO:	114	6968						
Drill:		P4-1	Date:	9/11/2025		Footage:	220.5	-feet	Depth:		0	Phase:	S	econd ream		
D 111: 5	9 1	INANVCE!												Ll. DEC	lv	
Drilling 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 Cleve	and				EI			Hourly					
	Person W	alking Drill Path	Bryce Warne	r			Role Contractor Frequency Continously							IR Detected		
							Contractor Hourly							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	
NSA-2 N/A N/A N/A N/A 44				44.6	42.7	38.6	N/A	39.1	N/A	N/A	N/A	41.25				
NSA-3		N/A	N/A	N/A	N/A	43.6	41.1	44.7	N/A	42.7	N/A	N/A	N/A	43.03		
	NSA-5	N/A	N/A	N/A	N/A	46.8	45.4	46.1	N/A	47.4	N/A	N/A	N/A	46.43		
NSA-6 N/A N/A N/A N/A 46.2				47.3	39.6	N/A	39.5	N/A	N/A	N/A	43.15					

Notes: Drill P4-1 commenced operations at 0725, the contractors completed 220.5-feet today, for a total of 1606.5-feet of second ream phase.



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

	Project	: NL25 Farmir	gton to	Hugo C-L	ine Extension				WO:	114	6968						
Drill:		P4-1	Date:	:	9/12/2025		Footage:	315-	feet	Depth:		0	Phase:	S	econd ream		
Drilling F	Fluide	MAXGEL												Approved	l by DES	Yes	
ו אוווווווווו	Water													Approved		Yes	
		Soda Ash Rig	ht Turn	Supply, [Orill-Plex HDD,	Platinum Pac U	L, Clay Crusher	r, Seal Force, M	agma Fiber					Approved	by DES	Yes	
			_					T		7			7				
				n Clevelai	nd				EI	1		Hourly	1				
	Person W	alking Drill Pat	h Bryce	e Warner				Role Contractor Frequency Continously							IR Detected		
									Contractor			Hourly				No	
											•						
															Daytime	Nightime	
NSA#	Time	1:0	0	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		N/A		N/A	38.1	40.2	41.4	39.6	N/A	N/A	N/A	N/A	N/A	39.83		
	NSA-3	N/A	N/A		N/A	37.6	42.5	38.9	37.1	N/A	N/A	N/A	N/A	N/A	39.03		
	NSA-5	N/A	N/A		N/A	42.3	44.6	45.7	45.4	N/A	N/A	N/A	N/A	N/A	44.50		
	NSA-6 N/A		N/A		N/A	44.1	43.5	42.8	41.9	N/A	N/A	N/A	N/A	N/A	43.08		

Notes: Drill P4-1 commenced operations at 0720, the contractors completed 315-feet today, for a total of 1921.5-feet. Contractors completed second ream phase and commenced first swab pass.



380.203m 1 of 1

	Projec	t: NL25 Farmi	ngton to Hu	go C-Line Ex	tension				WO:	114	16968]				
Drill:		P4-1	Date:	9/13/	2025		Footage:	756-	feet	Depth:		0	Phase:		Swabbing	
Drilling F	luids:	MAXGEL												Approved	l by DES	Yes
		Water												Approved	l by DES	Yes
		Soda Ash Ri	ght Turn Sup	pply, Drill-P	lex HDD, I	Platinum Pac U	JL, Clay Crusher	r, Seal Force, M	agma Fiber					Approved	l by DES	Yes
	Person V	Valking Drill Pa	Austin Cl th Bryce Wa						Contractor Contractor	<u> </u>	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/A	N/A		N/A	43.2	39.1		N/A		N/A		N/A	41.15	
N	NSA-3	N/A	N/A	N/A		N/A	41.6		-	N/A	<u> </u>	N/A		N/A	42.80	
N	NSA-5	N/A	N/A	N/A		N/A	42.3	45.5	N/A	N/A	N/A	N/A	N/A	N/A	43.90	
N	NSA-6					45.7	43.8	N/A	N/A	N/A	N/A	N/A	N/A	44.75		

Notes: Drill P4-1 commenced operations at 0730, the contractors completed 756-feet today, for a total of 1039.5-feet.



380.203m 1 of 1

	Projec	t: NL25 Farming	gton to Hugo C	line Extension				WO:	114	6968					
Drill:		P4-2	Date:	9/2/2025		Footage:	283.5	-Feet	Depth:	N,	/A	Phase:		First ream	
		1											1		
Drilling F	Drilling Fluids: 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	1agma Fiber					Approved	by DES	Yes
		•													
			Michael Huss	ong				EI	1		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	45.3	46.2	44.3	45.2	N/A	N/A	N/A	45.25	
N	SA-08				N/A	N/A	44.8	43.5	45.6	44.6	N/A	N/A	N/A	44.63	
NSA-09					N/A	N/A	44.2	44.6	43.2	44.9	N/A	N/A	N/A	44.23	
NSA-10					N/A	N/A	43.2	42.4	40.9	43.8	N/A	N/A	N/A	42.58	

High traffic on 170th St N during sound monitoring. The daily footage was 283.5 feet, and the total footage reamed is 283.5 feet. First ream commenced at 1003.



380.203m 1 of 1

	Projec	t: NL25 Farm	nington to H	lugo C-li	ine Extensio	า				WO:	114	6968					
Drill:		P4-2	Date:	g	9/3/2025		I	Footage:	396.5	-Feet	Depth:	N	/A	Phase:		First ream	
Drilling Fl	luids:	MAXGEL													Approved	d by DES	Yes
		Water													Approved	d by DES	Yes
		Soda Ash R	ight Turn S	upply, D	rill-Plex HD[, Platinui	m Pac U	L, Clay Crushei	r, Seal Force, N	/lagma Fiber					Approved	by DES	Yes
	Person V	Valking Drill Pa	Michae Randy - Colt Sm	Tilley	ng					Contractor Contractor		Frequency	Hourly Continously Hourly	1		IR Detected	l No
NSA#	Time	1	:00	3:00	5:0	0	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:0	23:00	Daytime Average	Nightime Average
N:	SA-07	N/A	N/A	1	N/A	N/A		45.1	49.4	51.3	49.6	50.3	N/A	N/A	N/A	49.14	1
N:	SA-08	N/A	N/A	1	N/A	N/A		44.5	47.8	49.6	48.6	49.6	N/A	N/A	N/A	48.02	2
N:	SA-09	N/A	N/A	1	N/A	N/A		44.9	48.9	50.3	53.7	50.8	N/A	N/A	N/A	49.72	2
N:	NSA-10 N/A N/A N/A			N/A	N/A		43.4	50.1	49.7	52.1	49.1	N/A	N/A	N/A	48.88	3	

High traffic and windy conditions on 170th St N during sound monitoring. The daily footage was 396.5 feet, and the total footage reamed is 680.0 feet.



380.203m 1 of 1

	Proje	ct: NL25 Farm	ingto	on to Hugo C-	line Extension				WO:	114	6968]				
Drill:		P4-2		Date:	9/4/2025		Footage:	569.0)-Feet	Depth:	N	/A	Phase:		First ream	
Drilling	Drilling Fluids: MAXGEL													Approved	by DES	Yes
	Water													Approved	by DES	Yes
		Soda Ash F	Right [·]	Turn Supply,	Drill-Plex HDD,	Platinum Pac	JL, Clay Crushe	r, Seal Force, N	/lagma Fiber					Approved	by DES	Yes
			Ν	Michael Husso	ong				EI			Hourly				
	Person V	Valking Drill P	ath R	Randy Tilley				Role	Contractor		Frequency	Continously				
			C	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	Ν	N/A	N/A	N/A	47.4	45.3	44.2	45.7	46.2	N/A	N/A	N/A	45.76	
	NSA-08	N/A	Ν	N/A	N/A	N/A	47.3	49.5	46.5	46.2	45.4	N/A	N/A	N/A	46.98	
	NSA-09	N/A	Ν	N/A	N/A	N/A	45.8	46.2	46.7	45.9	46.9	N/A	N/A	N/A	46.30	
	NSA-10 N/A N/A			N/A	N/A	N/A	47.2	46.5	45.2	44.3	45.2	N/A	N/A	N/A	45.68	

High traffic and windy conditions on 170th St N during sound monitoring. The daily footage was 569.0 feet, and the total footage reamed is 1260.0 feet.



380.203m 1 of 1

	Projec	ct: NL25 Farmi	ngton to Hu	go C-line Ex	tension				WO:	114	6968]				
Drill:		P4-2	Date:	9/5/2	2025		Footage:	409.5	-Feet	Depth:	N	/A	Phase:		First ream	
Drilling F	luids:	MAXGEL												Approved	d by DES	Yes
		Water												Approved	d by DES	Yes
		Soda Ash Ri	ght Turn Su	pply, Drill-P	lex HDD, F	Platinum Pac L	JL, Clay Crushe	r, Seal Force, N	1agma Fiber					Approved	d by DES	Yes
	Person V	Valking Drill Pa							EI Contractor Contractor		Frequency	Hourly Continously Hourly			IR Detected	l No
NC A #	T:	1.0	20	2.00	F.00	7.00	0.00	11.00	12.00	45.00	17.00	10:00	24.00	22.00	Daytime	Nightime
NSA#	Time SA-07	N/A	N/A	3:00 N/A	5:00	7:00 N/A	9:00 46.8		13:00 45.9	15:00 47.4	17:00		21:00 N/A	N/A	Average 46.52	Average
	NSA-07								50.2	49.6			N/A	N/A	49.16	
	SA-09	N/A	N/A	N/A		N/A	49.4 48.6	49.7	48.5	50.8			N/A	N/A	49.44	
	SA-10	N/A	N/A	N/A		N/A	45.7	44.3	46.2	47.8			N/A	N/A	45.88	

High traffic and windy conditions on 170th St N during sound monitoring. The daily footage was 409.5 feet, and the total footage reamed is 1669.5 feet.



380.203m 1 of 1

	Proje	ct: NL25 Farm	ingto	on to Hugo C-	line Extension				WO:	114	6968]				
Drill:		P4-2	D	Date:	9/6/2025		Footage:	283.5	i-Feet	Depth:	N	/A	Phase:		First ream	
Drilling	g Fluids:	MAXGEL												Approved	by DES	Yes
		Water												Approved	by DES	Yes
		Soda Ash F	light ⁻	Turn Supply,	Drill-Plex HDD,	Platinum Pac	JL, Clay Crushe	r, Seal Force, N	/lagma Fiber					Approved	by DES	Yes
			Ν	Michael Husso	ong				EI			Hourly				
	Person V	Valking Drill P	ath R	Randy Tilley				Role	Contractor		Frequency	Continously			IR Detected	
			C	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	Ν	N/A	N/A	N/A	49.8	48.4	47.8	48.4	47.2	N/A	N/A	N/A	48.32	
	NSA-08 N/A N/A N/A N/A 50					50.3	49.1	48.2	49.6	48.6	N/A	N/A	N/A	49.16		
	NSA-09 N/A N/A N/A N/A 47.					47.3	46.8	46.1	48.3	47.2	N/A	N/A	N/A	47.14		
	NSA-10 N/A N/A N/A N/A A							44.5	43.2	44.9	43.6	N/A	N/A	N/A	43.98	

High traffic and windy conditions on 170th St N during sound monitoring. The daily footage reamed was 283.5 feet, and the total footage reamed is 1,953 feet.



380.203m 1 of 1

	Project	t: NL25 Farming	gton to Hugo C	-line Extension				WO:	114	6968]				
Drill:		P4-2	Date:	9/8/2025		Footage:	283.5	-Feet	Depth:	N	/A	Phase:	Se	econd ream	
													ı		1
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	1agma Fiber					Approved	by DES	Yes
		•													
			Michael Huss	ong				El]		Hourly	Ī			
	Person W	alking Drill Path	Randy Tilley				Role	Contractor		Frequency	Continously	İ		IR Detected	
			Colt Smith					Contractor			Hourly	İ			No
														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
	NSA-07 N/A N/A N/A N/A					47.6	49.8	49.3	49.7	48.2	N/A	N/A	N/A	48.92	
	NSA-08 N/A N/A N/A N/A 49					49.8	51.4	48.8	50.3	49.6	N/A	N/A	N/A	49.98	
	NSA-09 N/A N/A N/A N/A 48.					48.3	47.3	49.6	45.9	48.2	N/A	N/A	N/A	47.86	
	NSA-10 N/A N/A N/A N/A						45.5	44.2	45.8	44.3	N/A	N/A	N/A	45.30	

High traffic and windy conditions on 170th St N during sound monitoring. The daily footage reamed was 504.0 feet, and the total footage reamed is 504.0 feet.



380.203m 1 of 1

	Proje	ct: NL25 Farmir	ngton to Hu	ıgo C-line E	xtension				WO:	114	6968					
Drill:		P4-2	Date:	9/9/	2025		Footage:	409.5	-Feet	Depth:	N	/A	Phase:	Se	econd ream	
Drilling F	·luids:	MAXGEL												Approved	by DES	Yes
_		Water												Approved	by DES	Yes
		Soda Ash Rig	ght Turn Su	pply, Drill-I	Plex HDD,	Platinum Pac	UL, Clay Crushe	r, Seal Force, N	/lagma Fiber					Approved	by DES	Yes
	Person V	Valking Drill Pat		Hussong				Role	EI Contractor			Hourly Continously			IR Detected	
			Dustin N	1ull					Contractor			Hourly	I			No
															Daytime	Nightime
NSA#	Time	1:0	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	ISA-07	N/A	N/A	N/A		N/A	48.3	49.2	47.4	48.5	48.9	N/A	N/A	N/A	48.46	5
N	7 7 7						47.4	48.6	48.1	49.4	48.7	N/A	N/A	N/A	48.44	
N	NSA-09 N/A N/A N/A N/A							49.5	48.3	46.7	47.6	N/A	N/A	N/A	48.14	
N	ISA-10	N/A	N/A	N/A	, and the second	N/A	43.4	44.4	45.6	44.9	43.8	N/A	N/A	N/A	44.42	!

High traffic on 170th St N during sound monitoring. The daily footage reamed was 409.5 feet, and the total footage reamed is 913.5 feet.



380.203m 1 of 1

	Projec	t: NL25 Farming	ton to Hugo C	-line Extension]	WO:	114	6968					
Drill:		P4-2	Date:	9/10/2025		Footage:	0-F	eet	Depth:	N/	′A	Phase:	Se	cond ream	
		_													
Drilling F	luids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Righ	nt Turn Supply	Drill-Plex HDD,	Platinum Pac l	JL, Clay Crushe	er, Seal Force, N	Magma Fiber					Approved	by DES	Yes
			Michael Huss	ong				EI			Hourly	Ī			
	Person W	alking Drill Path	Randy Tilley				Role	Contractor		Frequency	Continously	İ	i	R Detected	
			Dustin Mull				Ī	Contractor			Hourly	Ī			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	ISA-07	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	48.2	N/A	N/A	N/A	48.20	
N	ISA-08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	48.9	N/A	N/A	N/A	48.90	
N	NSA-09					N/A	N/A	N/A	N/A	47.3	N/A	N/A	N/A	47.30	
N	NSA-10 N/A N/A N/A N/A N/A				N/A	N/A	N/A	N/A	43.2	N/A	N/A	N/A	43.20		

High traffic on 170th St N during sound monitoring. The daily footage reamed was 0 feet, and the total footage reamed is 913.5 feet. Reaming was delayed today due to maintenance and a hydro test on the P4-2 exit.



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	Projec	t: NL25 Farmin	gton to Hug	o C-line Exte	nsion				WO:	114	6968					
Drill:		P4-2	Date:	9/11/20)25		Footage:	0-F	eet	Depth:	N	/A	Phase:	Se	econd ream	
Drilling I	Fluids:	MAXGEL												Approved	bv DES	Yes
		Water												Approved	•	Yes
		Soda Ash Rig	ht Turn Sup	oly, Drill-Plex	x HDD,	Platinum Pac l	JL, Clay Crushe	r, Seal Force, N	lagma Fiber					Approved	by DES	Yes
										-			-			
			Michael H	ussong					EI			Hourly				
	Person W	alking Drill Patl	Randy Till	ey				Role	Contractor		Frequency	Continously			IR Detected	
			Dustin Mu	II					Contractor			Hourly				No
															Daytime	Nightime
NSA#	Time	1:00	0	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	ISA-07	N/A	N/A	N/A		N/A	47.4	48.6	48.8	47.5	48.3	N/A	N/A	N/A	48.12	
N	NSA-08 N/A N/A N/A N/A 4					48.7	49.7	48.2	47.9	48.9	N/A	N/A	N/A	48.68		
N	NSA-09 N/A N/A N/A N/A 4						48.2	49.8	47.6	48.2	47.4	N/A	N/A	N/A	48.24	
N	NSA-10 N/A N/A N/A N/A							45.8	43.2	44.6	44.2	N/A	N/A	N/A	44.50	

High traffic on 170th St N during sound monitoring. The daily footage reamed was 346.5 feet, and the total footage reamed is 1260 feet.



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	Proje	ct: NL25 Farm	nington to Hugo	C-line Exte	nsion				WO:	114	6968					
Drill:		P4-2	Date:	9/12/20)25	Fo	otage:	157.5	-Feet	Depth:	N,	/A	Phase:	S	econd ream	
Drilling F	luids:	MAXGEL												Approved	d by DES	Yes
		Water												Approved	d by DES	Yes
		Soda Ash F	Right Turn Supp	ly, Drill-Ple	(HDD, Platinur	n Pac UL,	Clay Crusher	, Seal Force, N	lagma Fiber					Approved	by DES	Yes
	Michael Hussong Person Walking Drill Path Randy Tilley Dustin Mull								Contractor Contractor		Frequency	Hourly Continously Hourly	 		IR Detected	No
NSA#	Times	1	.00	:00	5:00	7:00	9:00	11.00	13:00	15.00	17:00	19:00	21:00	33.00	Daytime	Nightime
	Time SA-07	N/A	.:00 3 N/A	N/A	N/A	7.00	47.6	11:00 47.9	48.6	15:00 48.1	47.6		N/A	N/A	Average 47.96	Average
							48.4	48.2	47.7	47.9	48.2		N/A	N/A	48.08	
	NSA-09 N/A N/A N/A N/A A							48.7	47.3	48.3	47.6		N/A	N/A	47.90	
N:	SA-10	N/A	N/A	N/A	N/A		43.1	44.6	45.2	46.0	45.4		N/A	N/A	44.86	

High traffic on 170th St N during sound monitoring. The daily footage reamed was 157.5 feet, and the total footage reamed is 1417.5 feet.



380.203m 1 of 1

	Project: NL25 Farmington to Hugo C-line Extension							WO:	114	6968]				
Drill:		P4-2	Date:	9/13/2025		Footage:	0 -F	eet	Depth:	N	/A	Phase:	Se	cond ream	
Drilling F	luids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Righ	t 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	1		Hourly	7			
	Person W	alking Drill Path	Randy Tilley				Role	Contractor		Frequency	Continously	Ī	1	R Detected	
			Dustin Mull					Contractor			Hourly	Ī			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	ISA-07	N/A	N/A	N/A	N/A	48.2	47.6	48.4	N/A	N/A	N/A	N/A	N/A	48.07	
N	NSA-08 N/A N/A N/A N/A 4					47.9	48.4	47.9	N/A	N/A	N/A	N/A	N/A	48.07	
N					47.4	48.5	47.2	N/A	N/A	N/A	N/A	N/A	47.70		
N				43.6	44.3	43.7			N/A	N/A	N/A	43.87			

The daily footage reamed was 0 feet, and the total footage reamed is 1417.5 feet. Tripped out of the hole today to change to a rock reamer. Tripped back in 945 feet will continue Monday morning going back in hole.



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	Project	t: NL25 Elk Rive	r 3rdBL Extensi	on				WO:	114	6979					
Drill:		P4-1	Date:	9/6/2025		Footage:	58	84	Depth:	79	9.5	Phase:		Pilot	
Drilling F	luids:	MAXGEL Water											Approved Approved	by DES	Yes Yes
													Approved	DY DES	Yes
	Person W	alking Drill Path	April Hansen Edward Griffi	n			Role	EI Contractor			Hourly Continously		ı	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			Nightime Average
N	ISA01						54.3	53.5	55.0	53.1				53.98	3
N	ISA02						52.9			52.9				53.38	3
N	ISA07						36.1	36.8		37.4				37.13	3
N	ISA08						35.2	35.6	37.7	34.9				35.85	5

Notes: P4-1 commenced the pilot at 0916. NSA readings may be higher at times due to traffic, landowner activities, wildlife, wind and ongoing construction activities.



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Northern Natural Gas

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

	Project	:: NL25 Elk Rive	r 3rdBL Extensi	on				WO:	114	6979					
Drill:		P4-1	Date:	9/8/2025		Footage:	10	92	Depth:	6	0	Phase:		Pilot	
Drilling F	·luids:	MAXGEL Water											Approved Approved Approved	by DES	Yes Yes Yes
	Person W	alking Drill Path	April Hansen Edward Griffi					EI Contractor			Hourly Continously		ı	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		Daytime Average	Nightime Average
	ISA01						52.8		55.8					53.23	
N	ISA02						55.1	54.0	56.7	52.2				54.50	
N	ISA07						34.9	35.6	33.2	35.5				34.80	
N	ISA08						36.7	38.5	37.4	32.7				36.33	

Notes: P4-1 continued the pilot at 1015. The daily footage reamed was 540-feet, and the total footage reamed is 1092-feet. NSA readings may be higher at times due to traffic, landowner activities, wildlife, wind and ongoing construction activities.



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Northern Natural Gas

	Project	NL25 Elk River	3rdBL Extension	on				WO:	1146	5979					
Drill:		P4-1	Date:	9/9/2025		Footage:	15	53	Depth:	()	Phase:		Pilot	
Drilling Flo	uids:	MAXGEL Water											Approved Approved Approved	by DES	Yes Yes Yes
	Person Wa	alking Drill Path	April Hansen Edward Griffir	1			ļ.	EI Contractor			Hourly Continously		ı	R Detected	Yes
NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:00	13:00	15:00	17:00	19:00	21:00			Nightime Average
	A01						59.3							59.30	
	A02 A07						52.4 33.3							52.40 33.30	
	6A08						31.7							31.70	

Environmental Procedure

Appendix M: Horizontal Directional Drill Daily Report

Notes: P4-1 continued the pilot at 0915 and completed the pilot at 1215. The daily footage reamed is 429-feet and the total footage reamed is 1553-ft .NSA readings may be higher at times due to traffic, landowner activities, wildlife, wind and ongoing construction activities.



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	Project	t: NL25 Elk Rive	r 3rdBL Extensi	on				WO:	114	6979					
Drill:		P4-1	Date:	9/11/2025		Footage:	44	41	Depth:			Phase:	F	irst ream	
Drilling F	luide	MAXGEL											Approved	by DES	Yes
DI IIIIII F	iuius.	Water											Approved	-	Yes
													Approved	by DES	Yes
			April Hansen					EI]		Hourly				
	Person W	alking Drill Path	Edward Griffi	n			Role	Contractor		Frequency	Continously		ı	R Detected	
															No
															Nightime
NSA#	Time	1:00	3:00	5:00	7:00	9:00				17:00	19:00	21:00	23:00	Average	Average
N	SA01						52.3	51.8						52.05	
N	SA02						51.5	53.2						52.35	
N	SA07						48.4	47.5						47.95	
N	SA08						46.9	45.2						46.05	

Notes: P4-1 commenced the first ream with a 30-inch reamer. The daily footage reamed is 441-feet and the total footage reamed is 441-feet. NSA readings may be higher at times due to traffic, landowner activities, wildlife, wind and ongoing construction.



Northern Natural Gas

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

	Project	NL25 Elk Rive	r 3rd BL Extens	ion - Prelim				WO:	114	6979					
Drill:		P4-1	Date:	9/12/2025		Footage:	1,1	102	Depth:			Phase:	F	irst ream	
Drilling Fl	luids:	MAXGEL Water											Approved Approved Approved	by DES	Yes Yes Yes
	Person W	alking Drill Path	April Hansen Edward Griffii	1			Role	EI Contractor			Hourly Continously		١	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
N	SA01					50.3	53.1	53.1	54.5					52.75	
N.	SA02					51.4	50.8	54.0	51.8					52.00	
N	SA07					45.6	46.0		46.5					45.95	
N	NSA08						45.1	47.2	44.4					45.78	

Notes: P4-1 continued the first ream with a 30-inch reamer. The daily footage reamed is 661-feet and The total footage reamed is 1,102-feet. NSA readings may be higher at times due to traffic, landowner activities, wildlife, wind and ongoing construction.



Northern Natural Gas

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

	Project	:: NL25 Elk Rive	r 3rdBL Extensi	on				WO:	114	6979					
Drill:		P4-1	Date:	9/13/2025		Footage:	1,4	118	Depth:			Phase:	F	irst ream	
Drilling F	luids:	MAXGEL Water											Approved Approved Approved	by DES	Yes Yes Yes
	Person W	alking Drill Path	April Hansen Edward Griffi				Role	EI Contractor			Hourly Continously		I	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
N	ISA01 ISA02 ISA07					55.0 56.2 45.3								55.00 56.20 45.30	
						44.2								44.20	

Notes: P4-1 continued the first ream with a 30-inch reamer at 0735 and completed the first ream at 1000. The daily footage reamed is 315-feet and the total footage reamed is 1417.5-ft . NSA readings may be higher at times due to traffic.



	Proje	t: NL25 Elk Rive	r 3rd BL Extens	ion					WO:	114	6979]				
Drill:		P4-4	Date:	9/6/2025		Footage:		261		Depth:	1	.9	Phase:		Pilot	
Drilling F	luids:	MAXGEL												Approved	by DES	Yes
		Water												Approved	by DES	Yes
		Soda Ash Righ	nt Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crushe	er, Seal For	ce, Magma	a Fiber					Approved	by DES	Yes
													-			
			Nelson Casey					EI				Hourly				
	Person V	Valking Drill Path	Jeremy Griffi	า				Role Cont	ractor		Frequency	Continously			IR Detected	J
								Cont	ractor]		Hourly				No
							_									
															Daytime	Nightime
NSA#	Time	1:00	3:00	5:00	7:00	9:00) 1	1:00	13:00	15:00	17:00	19:00	21:00	23:00	Average	Average
N	SA- 21				N/A	N/A	N/A	N/A		64.1	64.0	N/A	N/A	N/A	64.05	,
N	SA- 28				N/A	N/A	N/A	N/A		46.1	42.1	N/A	N/A	N/A	44.10	į
Notes: D	rill P4-5 dril	commenced at	1430 stopped	at 1715.												



	Project	: NL25 Elk Rive	3rd BL Extens	ion				WO:	114	6979]				
Drill:		P4-4	Date:	9/8/2025		Footage:	598	3	Depth:		0	Phase:		Pilot	
		•													
Drilling Flu	iids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	d by DES	Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crusher	, Seal Force, Ma	igma Fiber					Approved	by DES	Yes
			Nelson Casey				E	:1	1		Hourly	1			
	Person W	alking Drill Path	Jeremy Griffin	1			Role C	Contractor		Frequency	Continously			IR Detected	í
			,					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
NS	A- 21				N/A	63.9	64.2	64.1	62.7	N/A	N/A	N/A	N/A	63.73	
NS.	A- 28				N/A	45.6	48.9	49.1	45.9	N/A	N/A	N/A	N/A	47.38	
							-								
Notes: Dri	ll P4-5 drill	commenced at (0830 stopped a	at 1600.											



	Projec	t: NL25 Elk Rive	r 3rd BL Extens	ion				WO:	114	6979					
Drill:		P4-4	Date:	9/9/2025		Footage:	59	8	Depth:)	Phase:		Pilot	
Drilling F	luids:	MAXGEL											Approved		Yes
		Water Soda Ash Rigi	nt Turn Supply,	Drill-Plex HDD,	Platinum Pac U	JL, Clay Crusher	, Seal Force, Ma	agma Fiber					Approved Approved	•	Yes Yes
	Person V	Valking Drill Path	Nelson Casey Jeremy Griffi					EI Contractor Contractor]	Frequency	Hourly Continously Hourly			IR Detected	l 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- 21				N/A	63.0	64.3		64.1	63.8			N/A	63.80)
	SA- 28			•	N/A	60.5	61.2	N/A	58.9	62.1	N/A	N/A	N/A	60.68	
Notes: D	rill P4-5 drill	commenced at	0800 stopped	at 1730.											



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	Project	: NL25 Elk River	3rd BL Extensi	on]	WO:	114	6979					
Drill:		P4-4	Date:	9/10/2025		Footage:	34	16	Depth:	1	6	Phase:		Pilot	
		I											1 .		lu.
Drilling Flu	uids:	MAXGEL											Approved		Yes
		Water											Approved	by DES	Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crushe	r, Seal Force, M	lagma Fiber					Approved	by DES	Yes
			Nelson Casey					EI			Hourly				
	Person W	alking Drill Path	Jeremy Griffin				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
NS	SA- 21				N/A	N/A	58.7	64.2	60.1	63.8	N/A	N/A	N/A	61.70	
NS	SA- 28				N/A	N/A	50.0	50.8	58.1	54.1	N/A	N/A	N/A	53.25	
	10/1 25														

Notes: Drill P4-5 drill commenced at 1000 stopped at 1800.



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	Project	: NL25 Elk Rive	r 3rd BL Extens	ion				WO:	114	6979					
Drill:		P4-4	Date:	9/11/2025		Footage:			Depth:	1	6	Phase:		Pilot	
													1		
Drilling Flu	ids:	MAXGEL											Approved	d 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, M	agma Fiber					Approved	d by DES	Yes
			Nelson Casey					EI			Hourly	1			
	Person W	alking Drill Path	Jeremy Griffir	1			Role	Contractor		Frequency	Continously			IR Detected	I
							1	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	21:0	23:00	Average	Average
NSA	A- 21				N/A	N/A	64.0	50.9	63.2	64.2	N/A	N/A	N/A	60.58	3
NSA	A- 28				N/A	N/A	47.5	59.6	52.1	51.8	N/A	N/A	N/A	52.75	5

Notes: Drill P4-5 drill commenced at 1000 stopped at 1800.



	Projec	t: NL25 Elk Rive	r 3rd BL Extens	ion]	WO	: 114	6979]				
Drill:		P4-4	Date:	9/12/2025		Footage:	5	98	Depth:		16	Phase:		Pullback	
Drilling Flo	uide:	MAXGEL											Approved	l by DES	Yes
Di lilling i ii	uius.	Water											Approved	•	Yes
		Soda Ash Righ	nt Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crushe	r, Seal Force, N	lagma Fiber					Approved		Yes
									=			-			
			Nelson Casey					El			Hourly				
	Person V	Valking Drill Path	Jeremy Griffii	1				Contractor		Frequency	Continously			IR Detected	
								Contractor			Hourly				No
															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	23:00	Average	Average
NS	SA- 21				N/A	N/A	N/A	N/A	64.6	N/A	N/A	N/A	N/A	64.60	,
NS	SA- 28				N/A	N/A	N/A	N/A	53.0	N/A	N/A	N/A	N/A	53.00)
Notes: Dr	ill P4-5 drill	commenced at	1400 stopped	at 1800. Comple	te pullback of	pipe.									



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	Project	NL25 Elk River	r 3rd BL Extens	ion				WO:	114	6979]				
Drill:		P4-5	Date:	9/2/2025		Footage:	210	68	Depth:	1	20	Phase:		Swabbing	
		ı											1		
Drilling Flu	ıids:	MAXGEL											Approve	d by DES	Yes
		Water											Approve	d by DES	Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac l	JL, Clay Crushe	r, Seal Force, M	agma Fiber					Approve	d by DES	Yes
			Nelson Casey					EI			Hourly				
	Person Wa	alking Drill Path	Zach Miller				Role	Contractor		Frequency	Continously			IR Detected	
		· ·	John Odom				1	Contractor		1	Hourly				No
									•			4			
														Daytime	Nightime
NSA#	SA# 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	OAverage	Average
NS	NSA-28 N/A N/A					N/A	61.4	57.8	60.9	47.4	61.1	N/A	N/A	56.88	61.10
NS	NSA-29 N/A N/A					N/A	34.9	37.3	35.1	36.4	35.5	N/A	N/A	35.93	35.50
NS	NSA-32 N/A N/A					33.6	31.1	30.0	33.7	31.4	N/A	N/A	32.10	31.40	
NS	NSA-33 N/A N/A						34.7	35.2	33.9	34.2	32.7	N/A	N/A	34.50	32.70

Notes: Drill P4-5 drill commenced at 0835 and is down 1 hour due to lightning.



380.203m 1 of 1

	Project	NL25 Elk River	3rd BL Extens	ion				W): 11	46979]				
Drill:		P4-5	Date:	9/3/2025		Footage:	1	052	Depth:	1	20	Phase:		Swabbing	
													T		ı
Drilling Flu	iids:	MAXGEL											Approve	d by DES	Yes
		Water											Approve	d by DES	Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crushe	r, Seal Force,	Magma Fiber					Approve	d by DES	Yes
		_				-		_						•	•
	Nelson Casey							EI			Hourly	1			
	Person Walking Drill Path Zach Miller							Contractor		Frequency	Continously	1		IR Detected	
			John Odom					Contractor		, ,	Hourly	1			No
-			•					•	_			_	ļ.		
														Daytime	Nightime
NSA#	Time	1:00	3:00	5:00	7:00	9:00	11:0	13:0	0 15:0	17:00	19:00	21:00	23:00	Average	Average
NS	NSA-28 N/A 6					61.1	N/A	N/A	N/A	55.6	50.8	N/A	N/A	58.35	50.80
NS	NSA-29 N/A 36				36.8	N/A	N/A	N/A	35.4	37.3	N/A	N/A	36.10	37.30	
NS						N/A	N/A	N/A	31.1	29.7	N/A	N/A	31.65	29.70	
NS						N/A	N/A	N/A	35.7	36.1	N/A	N/A	34.70	36.10	

Notes: Drill P4-5 drill commenced at 0735 and stopped drill at 1030 to set-up for second ream. Drill commenced at 1520 and drill stopped at 2015.



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	Project	NL25 Elk River	3rd BL Extens	ion				WO:	114	6979]				
Drill:		P4-5	Date:	9/4/2025		Footage:	283	38	Depth:		0	Phase:		Swabbing	
Drilling Flu	ıids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	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	Yes
		_													•
			Nelson Casey				E	EI	1		Hourly]			
	Person Wa	alking Drill Path	Zach Miller				Role (Contractor		Frequency	Continously			IR Detected	
		· ·	John Odom				_	Contractor			Hourly				Yes
-			•				•		•		•	1			
														Daytime	Nightime
NSA#	ISA# Time 1:00 3:00 5:00 7:00						11:00	13:00	15:00	17:00	19:00	21:00	23:00	Average	Average
NS	NSA-28 N/A						61.3	58.3	57.5	N/A	N/A	N/A	N/A	59.45	
NS	NSA-29 N/A 3						35.9	36.3	38.2	N/A	N/A	N/A	N/A	36.93	
NS	NSA-32 N/A 34						33.7	31.2	32.4	N/A	N/A	N/A	N/A	32.88	3
NS	NSA-33 N/A 36						37.3	36.4	37.5	N/A	N/A	N/A	N/A	36.93	

Notes: Drill P4-5 drill commenced at 0735 and stopped at 1530. Complete second swab with 36-inch.



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	Project:	NL25 Elk River	3rd BL Extensi	on				WO:	114	6979]				
Drill:		P4-5	Date:	9/5/2025		Footage:	8	320	Depth:	(50	Phase:		Pullback	
6 ili: El	• 1	I. AAVOS!												LL DEC	l.,
Drilling Flu	ııds:	MAXGEL											Approved	-	Yes
		Water											Approved	l by DES	Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crushe	r, Seal Force, I	Magma Fiber					Approved	by DES	Yes
													•		•
			Nelson Casey					EI	1		Hourly	1			
	Person Walking Drill Path Zach Miller							Contractor	1		Continously			IR Detected	
		-	John Odom					Contractor		, ,	Hourly				No
1							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	23:00	Average	Average
NS	NSA-28 61.4 6						N/A	N/A	N/A	57.9	N/A	N/A	N/A	60.70	
NS	NSA-29 42.4 40						N/A	N/A	N/A	42.3	N/A	N/A	N/A	43.80	
NS						49.2	N/A	N/A	N/A	54.7	N/A	N/A	N/A	51.33	
NS							N/A	N/A	N/A	41.3	N/A	N/A	N/A	39.97	

Notes: Drill P4-5 drill commenced at 0700 and stopped at 1030. Drill commenced at 1520 and stopped at 1800. Reading higher than normal due to strong wind gusts.



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	Project:	NL25 Elk River	3rd BL Extensi	on				WO:	114	6979]				
Drill:		P4-5	Date:	9/6/2025		Footage:	82	20	Depth:		50	Phase:		Pullback	
		1											1 .		1
Drilling Flu	iids:	MAXGEL											Approved	l by DES	Yes
		Water											Approved	l by DES	Yes
Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber													Approved	l by DES	Yes
			Nelson Casey					EI	1		Hourly				
	Person Wa	lking Drill Path	Zach Miller				Role	Contractor		Frequency	Continously			IR Detected	
			John Odom				1	Contractor	1		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
NS	A-28				N/A	N/A	60.1	57.8	60.7	N/A	N/A	N/A	N/A	59.53	
NS	A-29				N/A	N/A	38.6	35.4	37.1	N/A	N/A	N/A	N/A	37.03	
NS	A-32				N/A	N/A	31.4	33.6	32.8	N/A	N/A	N/A	N/A	32.60	
NS	A-33				N/A	N/A	36.8	38.8	39.1	N/A	N/A	N/A	N/A	38.23	

Notes: Drill P4-5 drill commenced at 1025 stopped at 1545.



	Proje	ct: NL25 Elk Rive	r 3rd BL Extens	sion								WO:		114	6979									
Drill:		P4-5	Date:	9/8/2025			Footage	:		82	0		Depth	h:		6	50		Phase	2:			Pullback	
		1																						1
Drilling F	luids:	MAXGEL																					l by DES	Yes
		Water																			Α	pproved	l by DES	Yes
		Soda Ash Righ	nt Turn Supply,	Drill-Plex HDD,	Platinun	n Pac U	L, Clay C	rusher,	, Seal Fo	orce, Ma	agma	a Fiber									Α	pproved	l by DES	Yes
																			7					_
			Nelson Casey	'						<u> </u>	EI						Hourh							
	Person Walking Drill Path Zach Miller									Role	Cont	ractor			Fre	quency	Contir	nously			IR Detected			
John Odom										(Cont	ractor					Hourh	/						No
		1	1	1											1									T
																							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-28				N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A		N/A			
N	SA-29				N/A		N/A	1	N/A	1	N/A		N/A		N/A		N/A		N/A		N/A			
N	SA-32				N/A		N/A	1	N/A	1	N/A		N/A		N/A		N/A		N/A		N/A			
N	SA-33				N/A		N/A	1	N/A	1	N/A		N/A		N/A		N/A		N/A		N/A			
		•	•	-	-																		•	•
Notes: D	rill P4-5 did	not operate.																						



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	Project	NL25 Elk River	3rd BL Extens	ion				WO:	114	6979]				
Drill:		P4-5	Date:	9/9/2025		Footage:	124	43	Depth:	1	20	Phase:		Swabbing	
													_		
Drilling Flu	ıids:	MAXGEL											Approve	ed by DES	Yes
		Water											Approve	ed by DES	Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crushe	r, Seal Force, Ma	agma Fiber					Approve	ed by DES	Yes
															•
			Nelson Casey				ı	EI			Hourly				
	Person Wa	alking Drill Path	Zach Miller				Role	Contractor		Frequency	Continously			IR Detected	1
			John Odom					Contractor	1		Hourly				No
			•						•			1	l .		
														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 23:0	00 Average	Average
NS	A-28				N/A	60.5	61.2	60.0	58.9	62.1	61.1	N/A	N/A	60.54	61.10
NS	A-29				N/A	37.4	36.8	35.9	37.1	42.3	45.3	N/A	N/A	37.90	45.30
NS.	A-32				N/A	32.1	30.2	34.7	31.3	38.9	40.3	N/A	N/A	33.44	40.30
NS	A-33				N/A	39.4	37.7	38.1	40.3	43.6	44.5	N/A	N/A	39.82	44.50

Notes: Drill P4-5 commenced at 0820 to stopped drill at 2030. Due to weather producing higher than average readings.



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	Project	NL25 Elk River	3rd BL Extens	ion				WO:	114	6979]				
Drill:		P4-5	Date:	9/10/2025		Footage:	24	88	Depth:	8	30	Phase:		Swabbing	
Drilling Flo	uids:	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														Yes
			1 .						7		1	7			T
Nelson Casey EI Hourly															
	Person Wa	alking Drill Path	Zach Miller				Role	Contractor	_	Frequency	Continously			IR Detected	
			John Odom					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
NS	SA-28				N/A	50.7	48.8	59.6	57.7	62.2	N/A	N/A	N/A	55.80	
NS	NSA-29 N/A 35				35.8	36.1	35.4	38.2	37.5	N/A	N/A	N/A	36.60)	
NS	SA-32				N/A	29.9	33.2	31.2	30.0	35.3	N/A	N/A	N/A	31.92	
NS	SA-33				N/A	38.6	40.1	39.9	37.3	40.5	N/A	N/A	N/A	39.28	3

Notes: Drill P4-5 commenced at 0800 stopped drill at 1840 due to gears on rig overheating



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	Project:	NL25 Elk River	3rd BL Extensi	on]	WO:	1140	6979					
Drill:		P4-5	Date:	9/11/2025		Footage:	28	338	Depth:		0	Phase:		Swabbing	
Drilling Flu		MAXGEL Water											Approved Approved	by DES	Yes Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crushe	r, Seal Force, N	1agma Fiber					Approved	by DES	Yes
	Person Wa	ılking Drill Path	Nelson Casey Zach Miller John Odom				Role	EI Contractor Contractor			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
-	A-28					N/A	N/A	59.6					N/A	55.85	
NS	A-29				N/A	N/A	N/A	37.2	34.9	N/A	N/A	N/A	N/A	36.05	
NS	A-32				N/A	N/A	N/A	33.7	32.3	N/A	N/A	N/A	N/A	33.00	
NS	A-33				N/A	N/A	N/A	38.5	40.2	N/A	N/A	N/A	N/A	39.35	

Notes: Drill P4-5 commenced at 1130 and stopped at 1630. Remove swab and worm and move equipment to exit.



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	Project:	NL25 Elk River	3rd BL Extensi	on]	WO:	114	6979					
Drill:		P4-5	Date:	9/12/2025		Footage:	8:	24	Depth:	8	80	Phase:		Swabbing	
Drilling Flu	uids:	MAXGEL Water											Approved Approved	•	Yes Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac L	JL, Clay Crushe	r, Seal Force, N	lagma Fiber					Approved	by DES	Yes
	Person Wa	lking Drill Path	Nelson Casey Zach Miller John Odom				-1	El Contractor Contractor]	Frequency	Hourly Continously Hourly			IR Detected	l 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
NS	A-28				N/A	N/A	N/A	N/A	N/A	N/A	63.4	N/A	N/A		63.40
NS	A-29					N/A		N/A		N/A	40.6		N/A		40.60
NS	A-32					N/A		N/A		N/A	42.7		N/A		42.70
NS	A-33				N/A	N/A	N/A	N/A	N/A	N/A	40.4	N/A	N/A		40.40

Notes: Drill P4-5 commenced at 1800 stopped at 2045.



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	Proje	ct: NL25 Elk Rive	3rd BL Extens	ion				WO:	114	6979					
Drill:		P4-5	Date:	9/13/2025		Footage:	19	45	Depth:	1	20	Phase:		Swabbing	
Drilling F	-luids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Righ	t Turn Supply,	Drill-Plex HDD,	Platinum Pac	UL, Clay Crusher	, Seal Force, M	agma Fiber					Approved	by DES	Yes
	Person '	Walking Drill Path	Nelson Casey Zach Miller John Odom					Contractor Contractor		Frequency	Hourly Continously Hourly		No		
NSA#	Time	1:00	3:00	5:00	7:0	0 9:00	11:00	13:00	15:00	17:00	19:00	21:00	23:00	Daytime Average	Nightime Average
N	NSA-28				N/A	57.8	60.2	59.0	59.8	60.3	N/A	N/A	N/A	59.42	
N	NSA-29				N/A	36.6	35.8	36.1	37.5		N/A	N/A	N/A	36.58	3
N	NSA-32				N/A	31.3	30.5	31.8	32.4	33.1	N/A	N/A	N/A	31.82	2
N	NSA-33				N/A	39.2	38.5	42.7	41.9	40.6	N/A	N/A	N/A	40.58	3

Notes: Drill P4-5 commenced at 0830 stopped at 1835.