



August 6, 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. 12

Dear Ms. Reese:

Pursuant to Condition 8 of the Order Issuing Certificate and Approving Abandonment issued by the Federal Energy Regulatory Commission February 19, 2025, Northern Natural Gas (Northern) hereby submits for filing in the above-referenced docket its biweekly environmental inspector report for the period ending August 3, 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 Expansion

Northern Natural Gas Company Northern Lights 2025 (CP24-60-000) Biweekly Status Report No. 12 Period Ending August 3, 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: 3 Total to date: 40

Construction Status: BJD Farms, LLC. (BJD), subcontractor for K&K, continued filling the lake tank north of 165th Street. K&K continued welding 36-inch-diameter mainline pipe north of 140th Street. K&K continued sandblasting and coating mainline pipe south of 165th Street. K&K completed installation of 560 feet of silt fence south of 165th Street from milepost (MP) 33.56 to MP 33.65. K&K commenced trenching north of 140th Street. K&K continued lowering-in 36-inch-diameter mainline pipe north of 140th Street from MP 31.9 to MP 32.1. K&K completed backfill of the trench north of 140th Street from MP 31.9 to MP 32.1. K&K commenced trenching south of 140th Street. K&K completed the mainline trench tie-in at MP 33.5 north of County Road 80/154th Street. K&K completed mechanical excavation for County Road 80/154th

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

Northern Natural Gas Company Northern Lights 2025 Expansion

Street and 140th Street crossings. K&K completed lowering-in 36-inch-diameter mainline pipe for County Road 80/154th Street and 140th Street crossings. Jensen Excavation & Trucking, LLC. (Jensen), subcontractor for K&K, completed mechanical excavation and backfill compaction of the 8:1 slope required by Freeborn County and Nunda Township for County Road 80/154th Street and 140th Street crossings.

Construction Modifications:

No construction modifications occurred during this reporting period.

Stream Crossings and Environmentally Sensitive Areas

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

Rain Events

Three rain events of 0.50 inch or greater occurred during this reporting period. One rain event of 4.15 inches occurred July 24, 2025. One rain event of 0.57 inch occurred July 29, 2025. One rain event of 0.60 inch occurred July 30, 2025. To date, the project has received 26.28 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	96%	Welding is ongoing
Ditching	6/6/2025	56%	Trenching is ongoing
Lower-in	6/6/2025	47%	Lowering-in is ongoing
Backfill	6/6/2025	32%	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. Continue restoration

Lake Mills to Albert Lea E-line Related Spill

No spills occurred during this reporting period.

Elk River 3rd Branch Line

Northern will construct and operate an approximately 2.42-mile extension of its 30-inch-diameter MNB87703 Elk River 3rd branch line in Washington County, Minnesota. The new extension will be tied in below ground approximately 260 feet north of the current terminus in Section 36, T32N, R21W, Washington County, Minnesota; the existing aboveground valve setting located on the east side of July Avenue in Section 36, T32N, R21W, Washington County, Minnesota, will be removed. The downstream tie-in to both Northern's 20-inch-diameter MNB87701 Elk River branch line and 20-inch-diameter MNB87702 Elk River loop will be completed with a new valve setting at the west side of Henna Avenue North in Section 3, T31N, R21W, Washington County, Minnesota.

Environmental Training

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

On-site Contractor: Otis Minnesota Services, LLC (Otis) Overall Construction Start Date: Commenced April 24, 2025

Environmental Training Conducted²: This reporting period: 2 Total to date: 86

Construction Status:

Otis continued welding and coating the line pipe. Otis continued welding bore pipe on horizontal directional drill (HDD) P4-1. Otis completed the removal of a short segment of the existing line pipe near MP 1.0 to accommodate HDD activities and completed backfill of the ditch line. Mears Group Inc. (Mears), a third-party HDD sub-contractor of Otis, continued the pilot pass of HDD P4-5 and continued the 30-inch-diameter ream pass of HDD P4-2. Mears had a 2,237-gallon inadvertent release of drilling fluids on HDD P4-2 in wetland ERT-W-14 July 22 through July 24, 2025. The inadvertent release was contained with turbidity curtains and a smaller containment was attempted with a section of culvert. While trying to reset the culvert, settlement occurred along the pipeline July 25, 2025. Mears and Otis issued a safety stand-down to address the issue. Northern is working on a variance request to be filed with FERC to allow matting through the wetland to safely address inadvertent returns, as noted in agency correspondence below. 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

Wetland feature ERT-W34 crossed by HDD June 29, 2025. Wetland feature ERT-W14 crossed by HDD July 30, 2025.

Rain Events

One rain event of 0.50 inch or greater occurred during this reporting period. One rain event of 1.25 inches occurred July 29, 2025. To date the project has received 14.33 inches of precipitation.

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

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	67%	Welding is ongoing
Ditching	7/9/2025	34%	Otis continued ditching
HDD ERT P4-1			
HDD ERT P4-2	7/15/2025	41%	Mears continued the ream pass
HDD ERT P4-3	5/22/2025	6/14/2025	Mears completed the HDD
HDD ERT P4-4			
HDD ERT P4-5	6/20/2025	30%	Mears continued the pilot pass
HDD ERT P4-6	6/20/2025	6/25/2025	Mears completed the HDD
HDD ERT P4-7	7/01/2025	7/3/2025	Mears completed the HDD
Lower-in	7/9/2025	33%	Otis continued lowering-in
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			eted or date all completed. All totals are approximate.

Two-Week Projection

- 1. Continue welding, sandblasting and coating
- 2. Complete HDD P4-5 pilot pass
- 3. Complete HDD P4-2
- 4. Commence HDD P4-4
- 5. Continue stopple bypass at MP 1.0
- 6. Continue ditching, lowering-in and backfill
- 7. 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-ground³ valve setting in Section 7, T31N, R20W, Washington County, Minnesota.

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

Environmental Training

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

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

Overall Construction Start Date: May 3, 2025

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

Construction Status:

Otis continued hydro-vacuum excavation within the Hugo compressor station. Otis continued topsoil segregation on the Farmington-Hugo C-Line extension. Otis completed seeding and mulching all stored stockpiles. Otis continued stringing and welding line pipe. Otis continued stringing the bore pipe. Otis continued sandblasting line and bore pipe. Otis completed installation of the valve for the Farmington tie-over valve setting. Otis continued setting up the sound wall for HDD P4-1. Otis commenced ditching, lowering-in and backfill on the south side of the Minnesota Department of Natural Resources (MDNR) property. Otis commenced the topsoil restoration.

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

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

Stream Crossings and Environmentally Sensitive Areas

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

Rain Events

Two rain events of 0.50 inch or greater occurred during this reporting period. One rain event of 1.05 inches occurred July 24, 2025. One rain event of 1.30 inches occurred July 29, 2025. To date the project has received 15.07 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	80%	Grading is ongoing
Stringing	6/18/2025	80%	Stringing is ongoing
Welding	6/20/2025	80%	Welding is ongoing
Ditching	7/24/2025	5%	Otis commenced ditching
HDD FAR P4-1			
HDD FAR P4-2			
Lower-in	7/24/2025	5%	Otis commenced lowering-in
Backfill	7/28/2025	5%	Otis commenced backfill
Topsoil	7/1/2025	5%	Otis commenced topsoil restoration
Restoration			
Hugo			
compressor	5/22/2025	50%	Otis continued hydro-vacuum activities and completed concrete
station launcher	3/22/2023	30 70	forms
and valves			
Farmington tie-			
over valve	6/17/2025	50%	Otis completed installation of the valve.
setting			
Clean-up			
Seeding			

*Completed totals include either percentage completed or date all completed. All totals are approximate.

Two-Week Projection

- 1. Continue hydro-vacuum excavation and launcher installation in the Hugo compressor station
- 2. Continue topsoiling
- 3. Continue stringing
- 4. Continue welding
- 5. Continue sandblasting and coating
- 6. Commence HDD P4-1
- 7. Continue ditching
- 8. Continue lowering-in
- 9. Continue backfill
- 10. 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: 2 Total to date: 43

Construction Status: K&K continued ditching from MP 3.22 to MP 3.43. K&K completed ditching and lowering-in from MP 2.95 to MP 3.16. K& K continued sandblasting and coating branch line pipe welds. K&K commenced tie-ins. K&K installed a trench breaker near MP 3.16. Xcel continued x-raying welds. K&K commenced weed control in the agriculture fields. K&K completed topsoil segregation. K&K completed the tie-in on the east side of Gardner Avenue for HDD P4-1. American Hydrovac commenced installing story poles for Tomah tie-over valve setting removal.

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

During this reporting period the project received 0.00 inches of precipitation. To date, the project has received 19.85 inches of precipitation.

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	85%	Welding is ongoing
Ditching	7/9/2025	90%	Ditching is ongoing
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	85%	Lowering-in is ongoing
Backfill	7/14/2025	75%	Backfill is ongoing
Topsoil			
Restoration			
Remove Tomah			
branch line			
loop receiver	6/11/2025	15%	K & K completed excavation
facility and tie-			
over valve			
setting			
Tomah Tie-over	6/12/2025	15%	K & K completed excavation
valve setting			
Clean-up			
Seeding			

Two-Week Projection

- 1. Complete tie-ins
- 2. Complete welding
- 3. Complete sandblasting and coating
- 4. Complete ditching
- 5. Complete lowering-in
- 6. Complete backfill
- 7. Commence cleanup and restoration
- 8. Complete pressure test

Tomah Branch Line Loop Related Spill Totals

No spills occurred during this reporting period.

La Crescent Compressor Station

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

Environmental Training

Archrock Services LP (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: 2 Total to date: 2

Construction Status: Archrock commenced removal of compressor heads July 22, 2025. The existing vibration supports were unable to connect to the new compressor heads so Archrock reinstalled the original compressor heads until modifications to the vibration supports are complete. Northern anticipates the vibration supports to be modified and returned to the station August 20, 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 Compressor Station Modifications Construction Progress													
Activity Start Date Completed Notes													
Compressor modifications	7/22/2025	10%	Compressor modifications are ongoing										
*Completed totals include either percentage completed or date all completed. All totals are approximate.													

Two-Week Projection

- 1. Modify the existing supports.
- 2. Complete modifications

La Crescent Compressor Station Related Spill Totals

No spills occurred during this reporting period.

PROJECT-WIDE AGENCY COMMUNICATIONS AND SITE VISITS

On July 29, 2025, Clay Roesler, third-party FERC inspector from Tetra Tech, conducted an environmental compliance inspection of the pipeline segments.

Lake Mills to Albert Lea E-line: On July 31, 2025, Northern submitted a request to the MDNR and received approval to temporarily increase the dewatering rate to 1,520 gallons per minute at MPs 31.4, 32.1 and 33.0 to remove accumulated stormwater on the Lake Mills to Albert Lea E-line extension.

Elk River 3rd Branch Line: On July 28, 2025, Stantec Consulting Services Inc. (Stantec), Northern's third party environmental consultant, confirmed via phone call with the U.S. Army Corps of Engineers that additional matting through wetland ERT-W14 to address inadvertent releases of HDD P4-2 did not require further permitting. Stantec also informed Rice Creek Watershed District of the proposed additional matting July 29, 2025. Stantec submitted a request for concurrence with a no effect on cultural resources

Northern Natural Gas Company Northern Lights 2025 Expansion

determination to the Minnesota State Historic Preservation Office (SHPO) August 1, 2025, for additional workspace to install the matting. Once concurrence from SHPO is received, Northern will be filing a variance request with FERC requesting additional workspace to install timber mats from MP 1.45 to 1.55.

PROJECT-WIDE LANDOWNER CONCERNS

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

PROJECT-WIDE NON-COMPLIANCE CONCERNS

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

PHOTOS

Lake Mills to Albert Lea E-line



Facing north at MP 34.2, BJD filling lake tank



Facing northwest at MP 33.55, K&K sandblasting and coating mainline pipe south of 165th Street



Facing north at MP 31.75, K&K trenching south of 140th Street



Facing northwest at MP 32.65, K&K welding mainline pipe north of 140th Street



Facing south at MP 33.65, ECDs installed south of 165th Street



Facing north at MP 32.0, K&K lowering in mainline pipe north of County Road 80/154th Street



Facing west at MP 33.19, K&K mechanically excavating County Road 80/154th Street crossing



Facing southwest at MP 33.18, K&K lowering-in and tie-in at the County Road 80/154th Street crossing



Facing west at MP 33.19; Jensen backfilling and compacting the County Road 80/154th Street crossing

Elk River 3rd Branch Line



HDD P4-5, continued the pilot pass



Facing east near MP 3.3, restoration commenced



Facing west near MP 1.35, welding bore pipe ongoing



Facing south near MP 1.0, removal of short segment of existing pipe to accommodate HDD activities and backfill completed

Farmington-Hugo C-Line Extension



Facing west, view of the Bald Eagle near MP 1.6



Facing north, Otis commenced ditching near MP 1.58



Facing south, valve installed at the Farmington tie-over valve setting near MP 1.9



Facing north, sound wall installed at HDD P4-1 near MP 0.55



Facing north, Otis lowering-in the line pipe near MP 1.6



Facing north, Otis backfilling the ditch near MP 1.6



Facing west, Otis commenced topsoil restoration near MP 1.68



Facing north, topsoil restoration stabilized near MP 1.8

Tomah Branch Line Loop



Facing southeast near MP 2.55, contractor completing tie-in



Facing west near MP 3.5, contractor performing weed control



Facing east near MP 3.2, contractor welding pipe



Facing east near MP 3.4, contractor backfilling ditch line



Facing east near MP 3.35, contractor digging ditch



Facing east near MP 3.3, contractor lowering-in pipe

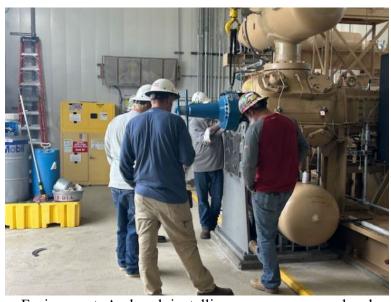
LaCrescent Compressor Station



Facing west, Archrock removing compressor head



Facing south, Archrock installing new support



Facing west, Archrock installing new compressor head



PCB wipe of removed compressor head

Northern Natural Gas

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

Water Appro	First ream	
Water Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber Approx Approx Approx Person Walking Drill Path Richard Benike Richard Benike Approx El Role Contractor Frequency Continously		
Water Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber Approximately Austin Cleveland Person Walking Drill Path Richard Benike Bode Contractor Frequency Continously		
Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber Approx Austin Cleveland Person Walking Drill Path Richard Benike Bi Role Contractor Frequency Continously	d by DES Yes	5
Austin Cleveland Person Walking Drill Path Richard Benike Bi Hourly Role Contractor Frequency Continously	d by DES Yes	5
Person Walking Drill Path Richard Benike Role Contractor Frequency Continously	d by DES Yes	s
Person Walking Drill Path Richard Benike Role Contractor Frequency Continously		
Contractor Hourly	IR Detected	
		No
	Daytime Nigh	ghtime
NSA# Time 1:00 3:00 5:00 7:00 9:00 11:00 13:00 15:00 17:00 19:00 21:00 21:00	O Average Aver	erage
NSA-08 N/A 37.8 40.5 39.6 44.3 N/A N/A N/A	40.55	
NSA-11 N/A 38.1 41.3 42.8 38.1 N/A N/A N/A	40.08	
NSA-12 N/A 38.4 38.1 46.0 40.9 N/A N/A N/A	40.85	
NSA-13 N/A 35.8 37.2 41.3 37.8 N/A N/A N/A	38.03	

Notes: Contractor continued first reaming phase with 30-inch reamer. Contractor had to trip pipe back out and gained 0 feet total.

Northern Natural Gas

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

Water App	oved by DES	Yes Yes Yes
Water Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber App App App App App App App App Austin Cleveland Person Walking Drill Path Richard Benike Role Contractor Frequency Continously	oved by DES	Yes
Water Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber App App App App App App App App Austin Cleveland Person Walking Drill Path Richard Benike Role Contractor Frequency Continously	oved by DES	Yes
Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber Approximately Austin Cleveland Person Walking Drill Path Richard Benike Boda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber Approximately El Hourly Frequency Continously		
Austin Cleveland Person Walking Drill Path Richard Benike Role Contractor Frequency Continously	oved by DES	Yes
Person Walking Drill Path Richard Benike Role Contractor Frequency Continously		
Person Walking Drill Path Richard Benike Role Contractor Frequency Continously		
		1
Contractor Hourly	IR Detected	l
		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	3:00 Average	Average
NSA-08 N/A 40.1 42.3 N/A N	41.20	1
NSA-11	43.05	1
NSA-12 N/A 35.9 44.6 N/A N/A N/A N/A N/A N/A	40.25	
NSA-13 N/A 37.6 36.8 N/A N/A N/A N/A N/A N/A		

Notes: Contractor continued first reaming phase with 30-inch reamer. Contractor replaced the hole opener reamer, with the 30-inch fly cutter reamer.

Northern Natural Gas

	Projec	t: NL25 Elk River					WO:		114	6979												
Drill:		P4-2	Date:	7/23/25		Foot	age:		()		Depth	:		-)		Phase:	:		First ream	
	•			•		-		•				-		•				-				
Drilling Fl	uids:	MAXGEL																		Approved	by DES	Yes
		Water																		Approved	by DES	Yes
		Soda Ash Righ	t Turn Supply, D	rill-Plex HDD, Pl	latinum P	ac UL, Clay	Crusher, S	eal Ford	ce, Magm	na Fik	ber									Approved	by DES	Yes
			Austin Clevela	nd						EI						Hourly						
	Person V	Walking Drill Path	Richard Benike	2					Role	Con	tractor			F	requency	Contin	ously				IR Detected	l
										Con	tractor					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-08				N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A				
N:	SA-11				N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A				
N:	SA-12				N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A				
NS	SA-13				N/A	N/A		N/A		N/A		N/A		N/A		N/A		N/A				
-		•	-					1														
Notes: Co	ntractor cor	ntinued cleaning	IR and is awaiti	ng approval to c	ontinue r	reaming.																
1																						



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

380.203m 1 of 1

	Project	NL25 Elk River	3rd BL Extensio	n				WO:	114	6979					
Drill:		P4-2	Date:	7/24/25		Footage:		0	Depth:	(0	Phase:	F	irst ream	
Drilling Flo	uids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Right	t Turn Supply, D	rill-Plex HDD, Pl	atinum Pac UL,	Clay Crusher, Se	eal Force, Magn	na Fiber					Approved	by DES	Yes
									_			_			
			Austin Clevelar	nd				EI	1		Hourly				
	Person W	alking Drill Path	Richard Benike				Role	Contractor		Frequency	Continously			IR Detected	
								Contractor	Ī		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	SA-08				N/A	N/A	38.1	37.5	N/A	N/A	N/A	N/A		37.80	
NS	NSA-11 N/A N/A						42.7	44.1	N/A	N/A	N/A	N/A		43.40	
NSA-12 N/A N/A						N/A	46.3	44.3	N/A	N/A	N/A	N/A		45.30	
NSA-13 N/A N/A						N/A	39.0	38.8	N/A	N/A	N/A	N/A		38.90	

Notes: Contractor completed IR cleaning, then push reamed. This resulted in a continuance in the IR. The contractor stopped all reaming and cleaned the continuance.

Northern Natural Gas

	Proje	ct: NL25 Elk River	3rd BL Extension	on					\	NO:	1146	6979]				
Drill:		P4-2	Date:	7/25/25		Footage:	:		0	Depth	:		0	Phase:		First ream	
		T															T
Drilling Fl	uids:	MAXGEL													Approved		Yes
		Water													Approved	by DES	Yes
		Soda Ash Right	t Turn Supply, [Prill-Plex HDD, Pl	latinum Pac U	L, Clay Crus	sher, Sea	al Force, Magn	na Fiber						Approved	by DES	Yes
			Austin Clevela	nd					EI				Hourly				
	Person	Walking Drill Path	Richard Benik	e				Role	Contractor			Frequency	Continously	1		IR Detected	d l
									Contractor				Hourly	1			Yes
																Daytime	Nightime
NSA#	Time	1:00	3:00	5:00	7:0	00	9:00	11:00	13	3:00	15:00	17:00	19:00	21:0	23:00	Average	Average
N	SA-08				N/A	N/A	١	N/A	N/A	N/A		N/A	N/A	N/A			
N	SA-11				N/A	N/A	١	N/A	N/A	N/A		N/A	N/A	N/A			
N	SA-12				N/A	N/A	١	N/A	N/A	N/A		N/A	N/A	N/A			1
N	SA-13				N/A	N/A		N/A	N/A	N/A		N/A	N/A	N/A			1
-		•		!	•										•		
Notes: Co	ntractor ha	ıd a sinkhole near	the original IR	and by the soun	d wall within	the worksna	ace This	s resulted in a	cafety stan	d down							
ivotes. Co)	ia a sirikilole ileai	the original in	and by the soun	a wan witiiii	ine workspe	acc. IIIIs	3 resuited iii a	Jaicty Stain	a down.							



Northern Natural Gas

	Projec	t: NL25 Elk River					WO:		114	6979												
Drill:		P4-2	Date:	7/26/25		Foo	tage:		(0		Depth	:		(0		Phase	:		First ream	
_																						T
Drilling Flo	uids:	MAXGEL																		Approved	-	Yes
		Water																		Approved	l by DES	Yes
		Soda Ash Righ	t Turn Supply, [rill-Plex HDD, Pl	atinum Pa	ac UL, Clay	Crusher, S	eal Force	e, Magm	na Fib	er									Approved	l by DES	Yes
																		_				
			Austin Clevela	nd						EI						Hourly						
	Person \	Nalking Drill Path	Richard Benik	e				1	Role	Cont	ractor			Fr	equency	Contino	ously	1			IR Detected	
										Cont	ractor					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-08				N/A	N/A	١	N/A		N/A		N/A		N/A		N/A		N/A				
NS	SA-11				N/A	N/A	١	N/A		N/A		N/A		N/A		N/A		N/A				
NS	SA-12				N/A	N/A	4	N/A		N/A		N/A		N/A		N/A		N/A				
NS	SA-13				N/A	N/A	4	N/A		N/A		N/A		N/A		N/A		N/A				
		•	•	•	•																	
Notes: Co	ntractor aw	vaiting approval t	o conduct furth	er work.																		
		0 1 1																				

Northern Natural Gas

	Project: NL25 Elk River 3rd BL Extension										WO:		114	6979								
Drill:		P4-2	Date:	7/28/25		F	ootage:			0		Depth	1:		()		Phase	:		First ream	
			•			-																
Drilling Flo	uids:	MAXGEL																		Approved	by DES	Yes
		Water																		Approved	by DES	Yes
		Soda Ash Righ	t Turn Supply, D	rill-Plex HDD, Pl	atinum F	Pac UL, Cl	ay Crusher,	Seal For	ce, Magn	na Fib	er									Approved	by DES	Yes
																		_				
			Austin Clevela	nd						EI						Hourly						
	Person \	Walking Drill Path	Richard Benik	9					Role	Cont	ractor			Fr	equency	Contin	ously				IR Detected	I
										Cont	ractor					Hourly	,					No
																					Daytime	Nightime
NSA#	Time	1:00	3:00	5:00		7:00	9:0	0	11:00		13:00		15:00		17:00		19:00		21:00	23:00	Average	Average
NS	SA-08				N/A	N	I/A	N/A		N/A		N/A		N/A		N/A		N/A				
NS	SA-11				N/A	N	I/A	N/A		N/A		N/A		N/A		N/A		N/A				
NS	SA-12				N/A	N	I/A	N/A		N/A		N/A		N/A		N/A		N/A				
NS	SA-13				N/A	N	I/A	N/A		N/A		N/A		N/A		N/A		N/A				
•		•	•	•		<u>.</u>		•						•		_		•		•	•	•
Notes: Co	ntractor aw	aiting approval t	o lay timber ma	ts along bore pa	ıth.																	



Northern Natural Gas

	Proje	ct: NL25 Elk River	3rd BL Extension	on					WO:	11	46979]				
Drill:		P4-2	Date:	7/29/25		Footage:		0		Depth:		0	Phase:		First ream	
Drilling Flo	uide	MAXGEL												Approved	I by DES	Yes
Dillilligin	uius.	Water														
Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Sea								Magma Fit	er					Approved	l by DES	Yes
			Austin Clevela	and				EI]		Hourly	7			
	Person Walking Drill Path								Role Contractor		Frequency	Continously	-	IR Detected		1
						<u></u>	Conf	tractor			Hourly]	No			
			T	T			T								Daytime	Nightime
NSA#	Time	1:00	3:00	5:00	7:00	9:0	0 1	11:00	13:00	15:0	0 17:00	19:00	21:00	23:00	Average	Average
NS	SA-08				N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
NS	SA-11				N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
NSA-12					N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A			
NSA-13				N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
										·						
Notes: Co	ntractor pe	rformed houseke	eping on P4-2 o	drill site.												



Northern Natural Gas

	Proje	ct: NL25 Elk Rive	er 3rd BL Ext	nsion								WO:		114	6979						
Drill:		P4-2	Date: 7/30/25 Footage:							31.63	1-feet		Depth: 0)	Phase:	First ream		
	•		•	*			•		•									•	•		
Drilling F	Fluids:	MAXGEL																	Approved	l by DES	Yes
		Water																	Approved by DES		Yes
		Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber														Approved by DES		Yes			
													_					_			
			Austin Cle								EI						Hourly				
	Person Walking Drill Path Richard Benike						Role Contractor				Frequency Continously				IR Detected						
						1		Contr	actor					Hourly							
																		_			
																				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
1	NSA-08					N/A	N/	Ά	N/A		N/A		N/A		N/A		36.4				36.40
1	NSA-11					N/A	N/	Ά	N/A		N/A		N/A		N/A		33.9				33.90
1	NSA-12					N/A	N/	Ά	N/A		N/A		N/A		N/A		34.6				34.60
1	NSA-13					N/A	N/	Ά	N/A		N/A		N/A		N/A		32.3				32.30
		•	•	·					•						•			•		•	•
Notes: C	Contractor re	sumed pull rean	n with 30-inc	n tri-fly ream	er.																

Northern Natural Gas

Drill:									WO	:114	16979						
DI III.		P4-2	Date:	7/31/25		Footage	:	221.24	1-feet	Depth:	pth: 0 Phase:				First ream		
Drilling Fluids: MAXGEL														Approved	by DES	Yes	
		Water												Approved	by DES	Yes	
		Soda Ash Right	Turn Supply, D	Prill-Plex HDD, Pl	atinum Pac Ul	., Clay Crus	sher, Seal Fo	rce, Magma	a Fiber					Approved by DES Yes			
	Austin Cleveland EI Hourly																
F	Person Wa	alking Drill Path						Role	Contractor	1		Continously	†		IR Detected		
							Contractor Hourly							No			
															Daytime	Nightime	
NSA# Ti	ime	1:00	3:00	5:00	7:0	0	9:00	11:00	13:00	15:00	17:00	19:00	21:00		1	Average	
NSA-0	08				N/A	N/A		38.4	N/A	46.2	38.5				42.30		
NSA-11					N/A	N/A		41.2	N/A	38.9	37.1				40.05		
NSA-12					N/A	N/A		37.6	N/A	40.0	41.7				38.80		
NSA-13					N/A	N/A		44.0	N/A	35.4	39.8				39.70		
				ri-fly reamer. Co						•		· · ·	•	•			

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Northern Natural Gas

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

Drill:	ſ	P4-2	la .												
			Date:	8/1/25		Footage:	284.45	5-feet	Depth:	C)	Phase:	F	irst ream	
			•	•	•				•	•					
Drilling Fluids:		MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Right	Turn Supply, D	rill-Plex HDD, Pla	atinum Pac UL,	Clay Crusher, Se	al Force, Magm	a Fiber					Approved	by DES	Yes
			Austin Clevela	nd				EI			Hourly				
Pe	erson Wa	lking Drill Path	Richard Benike	2			Role	Contractor		Frequency	Continously			IR Detected	
								Contractor			Hourly				No
									•			_			
														Daytime	Nightime
NSA# Tim	me	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-08	8				N/A	42.1	43.2	41.7	39.1	39.3				41.53	
NSA-11	NSA-11 N/A							39.6	46.0	41.5				42.53	
NSA-12	NSA-12 N/A							37.9	38.5	37.4				40.13	
NSA-13	3				N/A	41.0	38.4	42.4	42.6	38.6				41.10	

Notes: Contractor continued pull ream with 30-inch tri-fly reamer. Contractor ended the day with 980.3 feet reamed.



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	Projec	t: NL25 Elk Rive	r 3rd BL Extens	ion					WO:		1146	979					
Drill:		P4-5	Date:	7/21/2025		Footage:		0		Depth:		(0	Phase:		Pilot	
- ···· -		I A A V O E I														11 850	lv.
Drilling F	-luids:	MAXGEL													Approved		Yes
		Water													Approved	by DES	Yes
		Soda Ash Rigi	nt Turn Supply,	Drill-Plex HDD,	Platinum Pac I	JL, Clay Crushe	r, Seal Forc	e, Magm	a Fiber						Approved	by DES	Yes
															•		•
			Nelson Casey	,				EI					Hourly				
	Person V	Valking Drill Path	John Odom				1 1	Role Con	tractor	Ī		Frequency	Continously	1		IR Detected	I
		· ·						Con	tractor	1			Hourly	†			No
										-				-			
																Daytime	Nightime
NSA#	Time	1:00	3:0	5:00	7:00	9:00	11	L:00	13:00	15	:00	17:00	19:00	21:00	23:00	Average	Average
1	NSA-28				N/A	N/A	N/A	N/A		N/A		39.7	40.4	N/A		39.70	40.40
1	NSA-29				N/A	N/A	N/A	N/A		N/A	ı	37.4	38.1	N/A		37.40	38.10
1	NSA-32				N/A	N/A	N/A	N/A		N/A		26.1	25.3	N/A		26.10	25.30
١	NSA-33				N/A	N/A	N/A	N/A		N/A		27.3	28.8	N/A		27.30	28.80

Notes: Drill P4-5 commenced drill operation at 1530 and stopped operating at 2030.



Orill:		P4-5	Date:	7/22/2025		Footag	ge:	512		Depth:	1	00	Phase:		Pilot	
Orilling F	·luids:	MAXGEL												Approved	by DES	Yes
Ü		Water												Approved	by DES	Yes
		Soda Ash Righ	nt Turn Supply,	, Drill-Plex HDD	, Platinu	ım Pac UL, Cla	y Crusher,	Seal Force, Ma	agma Fiber					Approved	by DES	Yes
		•														•
			Nelson Casey	,				EI				Hourly	1			
	Person \	Walking Drill Path	John Odom					Role Co	ontractor		Frequency	Continously	1		IR Detected	
								Co	ntractor			Hourly]			No
															Daytime	Nightime
NSA#	Time	1:00	3:00	5:00		7:00	9:00	11:00	13:00	15:00	17:00			23:00	Average	Average
N	SA-28				N/A	N/A		40.7	40.1	38.6			N/A		39.93	
N	SA-29				N/A	N/A		37.2	37.5	38.1	35.7	N/A	N/A		37.13	
N	SA-32				N/A	N/A		35.2	33.9	34.7	32.4	N/A	N/A		34.05	
N	SA-33				N/A	N/A		36.7	35.4	35.3	34.9	N/A	N/A		35.58	



	Proje	ct: NL25 Elk Ri	ver 3rd BL E	tension					WO:	114	16979]				
Drill:		P4-5	Date:	7/23/2025		Footage:	5	96		Depth:	1	102	Phase:		Pilot	
Drilling Fl	uids:	MAXGEL												Approved	by DES ل	Yes
		Water												Approved	d by DES	Yes
		Soda Ash R	ight Turn Su	pply, Drill-Plex HD	D, Platinum Pa	ac UL, Clay Crush	er, Seal Force,	Magma	a Fiber					Approved	by DES	Yes
	Person \	Walking Drill Pa	Nelson C				Role	EI Contra	ctor		Frequency	Hourly Continously]		IR Detected	
								Contra				Hourly				No
															Daytime	Nightime
NSA#	Time	1:	00	3:00 5:0	0 7:0	9:00	11:00		13:00	15:00	17:00	19:00	21:0	0 23:00	OAverage	Average
NS	SA-28				N/A	39.6	38.2	N/A		N/A	41.6	N/A	N/A		39.80	,
NS	SA-29				N/A	36.3	38.4	N/A		N/A	37.4	1 N/A	N/A		37.37	1
NS	SA-32				N/A	34.8	33.9	N/A		N/A	33.9	N/A	N/A		34.20	
NS	SA-33				N/A	35.1	31.2	N/A		N/A	34.5	N/A	N/A		33.60	
				•		•					•		•	•		
Notes: Dr	ill P4-5 co	mpleted drill o	perations fr	om 0800 to 1855	and from 194	5 to 2035.										



Drill:		P4-5	Date:	7/24/2025		Foo	tage:	59	96	[Depth:	10)2	Phase:		Pilot	
D.::111:	Fl. dalar	MAXGEL													Approved	l by DEC	Yes
Drilling	Fluids:														- ''		
		Water													Approved		Yes
		Soda Ash Rig	ht Turn Supply	y, Drill-Plex HDD	, Platinun	n Pac UL, (Clay Crusher,	Seal Force,	Magn	na Fiber					Approved	l by DES	Yes
			Nelson Case	У					ΕI				Hourly				
	Person \	Walking Drill Patl	h Zach Miller					Role	Conti	ractor		Frequency	Continously			IR Detected	
		· ·	John Odom						Conti	ractor			Hourly	1			No
							<u> </u>				l		,				
																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	ISA-28				N/A		41.4	40.6	N/A		40.2	N/A	38.7	N/A		40.73	38.7
1	ISA-29				N/A		37.8	38.3	N/A		38.6	N/A	37.3	N/A		38.23	37.3
1	ISA-32				N/A		32.5	35.3	N/A		33.9	N/A	34.6	N/A		33.90	34.6
1	ISA-33				N/A		34.1	33.8	N/A		31.3	N/A	35.1	N/A		33.07	35.1



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	Projec	ct: NL25 Elk Rive	er 3rd BL Exten	sion				WO:	114	6979					
Drill:		P4-5	Date:	7/25/2025		Footage:	6	07	Depth:	1	10	Phase:		Pilot	
Drilling Fl	uids:	MAXGEL											Approved	l by DES	Yes
		Water											Approved		Yes
		Soda Ash Rig	ht Turn Supply	, Drill-Plex HDD	, Platinum Pa	c UL, Clay (rusher, Seal Force,	Magma Fiber					Approved	by DES	Yes
	Person V	Valking Drill Path	Nelson Casey Zach Miller John Odom	/			Role	EI Contractor Contractor		Frequency	Hourly Continously Hourly			IR Detected	No
															Nightime
NSA#	Time	1:00	3:00	5:00			9:00 11:00						23:00		Average
NS	SA-28				N/A	N/A	41.2	40.3	41.4	38.8	40.6	N/A		40.43	40.60
NS	SA-29				N/A	N/A	38.5	37.4	37.4	38.3	36.9	N/A		37.90	36.90
NS	SA-32				N/A	N/A	34.7	35.1	35.6	34.2	33.7	N/A		34.90	33.70
NS	SA-33				N/A	N/A	32.3	33.7	33.5	34.8	31.4	N/A		33.58	31.40

Notes: Drill P4-5 completed drill operations from 0730 to 0815 and from 0945 to 2035.



	Proje	ct: NL25 Elk Rive	er 3rd BL Exten	sion]		WO:	114	6979]				
Drill:		P4-5	Date:	7/26/2025		Footage:	60)7		Depth:	1	10	Phase:		Pilot	
Drilling F	-luids:	MAXGEL												Approved	l by DES	Yes
		Water												Approved	l by DES	Yes
i		Soda Ash Rig	ht Turn Supply	, Drill-Plex HDD	, Platinum Pa	c UL, Clay Crush	er, Seal Force,	Magm	ıa Fiber					Approved	by DES	Yes
		-														
			Nelson Casey	1				EI				Hourly	1			
	Person V	Valking Drill Path	Zach Miller				Role	Contra	actor		Frequency	Continously	1		IR Detected	
			John Odom					Contra	actor			Hourly]			No
			1		1	1	ı		-			1			la	Learner and
															1 '	Nightime
NSA#	Time	1:00	3:00	5:00	7:0	0 9:00	11:00		13:00	15:00	17:00	19:00	21:0	0 23:00	Average	Average
N	ISA-28				N/A	39.4	39.4	N/A		40.1	N/A	41.5	N/A		39.63	41.50
N	ISA-29				N/A	36.7	38.5	N/A		37.3	N/A	36.4	N/A		37.50	36.40
N	ISA-32				N/A	33.1	35.2	N/A	i	31.8	N/A	33.5	N/A		33.37	33.50
N	ISA-33			İ	N/A	32.2	35.6	N/A		34.1	N/A	32.8	N/A		33.97	32.80
			•	•									•	•		
Notos: F	rill D4 5 co	mnleted drill on	orations from I	0720 to 1215 f	rom 1/20 to	1610 and from 1	950 to 2025									



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	Proje	ct: NL25 Elk Rive	er 3rd BL Exten	sion				WO:	114	6979]				
Drill:		P4-5	Date:	7/28/2025		Footage:	89	0	Depth:	13	6.7	Phase:		Pilot	
Drilling Fl	luids:	MAXGEL											Approved	l by DES	Yes
		Water	h+ T C	D.:! D IDD	Diation Dec	Cl Cb	C <u></u>	Manua 5:1					Approved		Yes
		Soda Ash Rig	nt Turn Supply	, Drill-Plex HDD	, Platinum Pac	UL, Clay Crush	er, Seal Force,	viagma Fiber					Approved	I DY DES	Yes
	Person V	Valking Drill Patl	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		'	Nightime Average
	SA-28	1.00	3.00	3.00	N/A	40.3		41.1		40.3		5 N/A	23.00	40.28	
N:	SA-29				N/A	37.6	36.4	38.3	37.3	39.1	36.9	N/A		37.74	36.90
NS	SA-32				N/A	34.2	34.2	33.7	35.7	32.4	33.5	N/A		34.04	33.50
NS	SA-33				N/A	35.6	33.5	34.1	32.6	35.2	34.8	N/A		34.20	34.80
				00 1 .											

Notes: Drill P4-5 commenced drill operation at 0730 and stopped operating drill at 2035.



	Proje	ct: NL25 Elk I	River 3rd B	L Extensi	on						WO:	1146	6979	l					
Drill:		P4-5	Date:		7/29/2025		Footag	ge:		890		Depth:	13	6.7	Phase:	:		Pilot	
Drilling Fl	uids:	MAXGEL															Approved	by DES	Yes
		Water															Approved	by DES	Yes
1		Soda Ash	Right Turn	Supply, [Drill-Plex HDD,	, Platinur	m Pac UL, Cla	y Crusher	, Seal Force	e, Magm	na Fiber						Approved	by DES	Yes
			Nelso	n Casey						EI				Hourly	1				
	Person V	Walking Drill I	Path Zach №	Miller					Ro	le Contr	actor		Frequency	Continously	1		ŀ	IR Detected	ı
			John C	Odom						Contr	actor			Hourly	1				No
															-	-			
												,					·	Daytime	Nightime
NSA#	Time		1:00	3:00	5:00	1	7:00	9:00	11:0	Ю	13:00	15:00	17:00	19:00)	21:00	23:00	Average	Average
NS	SA-28					N/A	N/A	N	I/A	N/A		40.1	41.5	38.3	N/A			40.80	38.30
N:	SA-29					N/A	N/A	N	I/A	N/A		38.9	36.7	38.1	N/A			37.80	38.10
N:	SA-32					N/A	N/A	N	I/A	N/A		34.5	31.2	35.7	N/A			32.85	35.70
N!	SA-33					N/A	N/A	N	I/A	N/A		33.0	34.6	31.9	N/A			33.80	31.90
			•			-								1					
Notes: Di	rill P4-5 co	mmenced dr	ill operatio	n at 135	0 and stopped	operati	ng drill at 201	10											
l votes. Di	4 5 60	illineneed di	порегасто	11 01 155	o ana stoppea	орстан	116 01111 01 201												



380.203m 1 of 1

	Proje	ct: NL25 Elk Ri	ver 3rd BL Ext	ension				WO:	114	6979					
Drill:		P4-5	Date:	7/30/2025		Footage:	69	18	Depth:	1	16	Phase:		Pilot	
- ····		INANVOE!											I A	I b DEC	lv
Drilling I	·luids:	MAXGEL											Approved	-	Yes
		Water											Approved	by DES	Yes
		Soda Ash R	ight Turn Sup	oly, Drill-Plex HD	D, Platinum	n Pac UL, Clay Crus	her, Seal Force,	Magma Fiber					Approved	by DES	Yes
		•											•		•
			Nelson Ca	sey				EI	1		Hourly				
	Person V	Valking Drill Pa	th Zach Mille	r			Role	Contractor	1	Frequency	Continously	1		IR Detected	1
		o .	John Odor	n			1	Contractor	1		Hourly	1			No
			•						•		•	•			
														Daytime	Nightime
NSA#	Time	1:	:00	:00 5:	00	7:00 9:0	0 11:00	13:00	15:00	17:00	19:00	21:00	23:00	Average	Average
N	ISA-28				N/A	40.	3 39.7	41.3	38.4	40.6	40.6	N/A		40.06	40.60
N	ISA-29				N/A	38.	3 36.2	36.7	37.1	38.7	35.8	N/A		37.40	35.80
N	NSA-32 N/A							34.3	33.7	35.3	32.4	N/A		33.80	32.40
N	ISA-33				N/A	31.	2 34.5	33.3	32.9	34.1	33.7	N/A		33.20	33.70

Notes: Drill P4-5 commenced drill operation at 1350 and stopped operating drill at 2010.



	Projec	t: NL25 Elk Rive	er 3rd BL Exten	sion				WO:	114	16979]				
Drill:		P4-5	Date:	7/31/2025		Footage:	88	87	Depth:	1	22	Phase:		Pilot	
Drilling Fl	uids:	MAXGEL											Approved	by DES	Yes
		Water											Approved	by DES	Yes
		Soda Ash Rig	ht Turn Supply	, Drill-Plex HDD	, Platinum Pa	ac UL, Clay Crush	er, Seal Force,	Magma Fiber					Approved	by DES	Yes
		•											•		•
			Nelson Casey	,				El	1		Hourly	1			
	Person W	alking Drill Path	Zach Miller				Role	Contractor	1	Frequency	Continously	1		IR Detected	
			John Odom					Contractor			Hourly]			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	21:00	23:00	Average	Average
NS	SA-28				N/A	35.6	38.1	40.0	39.3	N/A	N/A	N/A		38.25	
NS	SA-29				N/A	37.3	35.1	38.4	36.7	7 N/A	N/A	N/A		36.88	
NS	SA-32				N/A	34.3	36.2	33.9	34.1	l N/A	N/A	N/A		34.63	
NS	SA-33				N/A	35.7	33.7	35.2	32.6	N/A	N/A	N/A		34.30	
		ممامته ما طحناا مم		•	•	•		•	•	•	•		•	•	•



	Proje	ct: NL25 Elk Rive	er 3rd BL Exter	ision]			WO:	114	6979							
Drill:		P4-5	Date:	8/1/2025		Footage:		887	7		Depth:		12	22	Phase	e:		Pilot	
Drilling Fl	luide	MAXGEL															Approved	hy DES	Yes
Dillilling Fi	uius.	Water															Approved	-	Yes
		Soda Ash Rig	ht Turn Supply	, Drill-Plex HDD	, Platinum	Pac UL, Clay Crus	her, Sea	al Force, N	Magm	na Fiber							Approved	by DES	Yes
															_				
	Person V	Walking Drill Patl	Nelson Cases h Zach Miller John Odom	<u>y</u>			-	Role C	Contr	ractor		Fr		Hourly Continously Hourly	-			IR Detected	i No
														·					
NSA#	Time	1:00	0 3:0	5:00	1	7:00 9:00	0	11:00		13:00	15:00)	17:00	19:0	0	21:00			Nightime Average
NS	SA-28				N/A	37.9	9 N/A	١	N/A		39.2	N/A		N/A	N/A			38.55	,
NS	SA-29				N/A	36.3	3 N/A	١	N/A		38.4	N/A		N/A	N/A			37.35	,
NS	SA-32				N/A		2 N/A	١	N/A		35.6	N/A		N/A	N/A			34.40	,
NS	SA-33				N/A	31.7	2 N/A	١	N/A		33.1	N/A		N/A	N/A			32.15	J
Notes: Dr	ʻill P4-5 co	mpleted drill op	erations from	0735 to 1050 ar	nd from 13	35 to 1640.													



Project: NL25 Elk River 3rd BL Extension							ı	WO:	114	16979					
Drill:		P4-5	P4-5 Date: 8/2/2025 Footage:			9:	918 Depth: 124 Phase:			Phase:	Pilot				
Drilling F	luids:	MAXGEL												by DES	Yes
		Water	ater												Yes
Soda Ash Right Turn Supply, Drill-Plex HDD, Platinum Pac UL, Clay Crusher, Seal Force, Magma Fiber										Approved	Approved by DES Yes				
			_						7			-			
Nelson Casey Person Walking Drill Path Zach Miller							Role	El Role Contractor		Hourly Frequency Continously		_	IR Detected		
			John Odom					Contractor Hourly					No		No
					Ι									Day stine a	Inti-lations
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
NSA-28					N/A	40.3	37.9	41.2	41.2	N/A	N/A	N/A		40.15	
NSA-29					N/A	37.4	38.6	38.6	36.3	N/A	N/A	N/A		37.73	
NSA-32					N/A	34.7	32.3	35.1	. 33.7	7 N/A	N/A	N/A		33.95	
NSA-33					N/A	33.5	33.2	35.7	31.1	l N/A	N/A	N/A		33.38	
Notes: D	rill P4-5 cor	mmenced drill o	peration at 080	00 and stopped	operating dri	ill at 1630.									