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Oil Production

October 1,110,910 barrels/day (final)

November 1,159,778 barrels/day (all-time high 1,519,037 BOPD Nov 2019)

NM = 1,288,953

1,116,909 barrels/day or 96% from Bakken and Three Forks

42,869 barrels/day or 4% from legacy pools

Gas Production and Capture

October Production 2,999,281 MCF/day 94% Capture 2,822,914 MCF/day

76%

November Production 3,072,306 MCF/day (all-time high 3,145,172 MCFD Nov 2019)

94% Capture 2,895,119 MCF/day (all-time high 2,899,998 MCFD Mar 2020)

Gas Capture

Fee FBIR

Statewide 94%
Statewide Bakken 95%
Non-FBIR Bakken 95%
FBIR Bakken 93%
Trust FBIR Bakken 96%

Permits

October 37 drilling and 0 seismic November 50 drilling and 2 seismic

December 45 drilling and 0 seismic (all-time high 370 in 10/2012)

Rig Count

November 33

December 32 (all-time high 218 on 5/29/12)

Federal surface

ND 32 NM 95

Wells Waiting on Completion

October 457 November 416

Inactive Wells

October 1,881 November 1,957

Completions

October 41 November 60 December 81

Producing Wells

October 17164

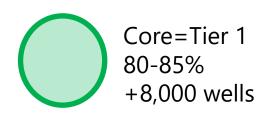
November 17,238 (preliminary)(NEW all-time high 17,238 November 2021)

14,940 wells or 87% are now unconventional Bakken – Three Forks wells

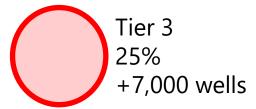
2,298 wells or 13% produce from legacy conventional pools

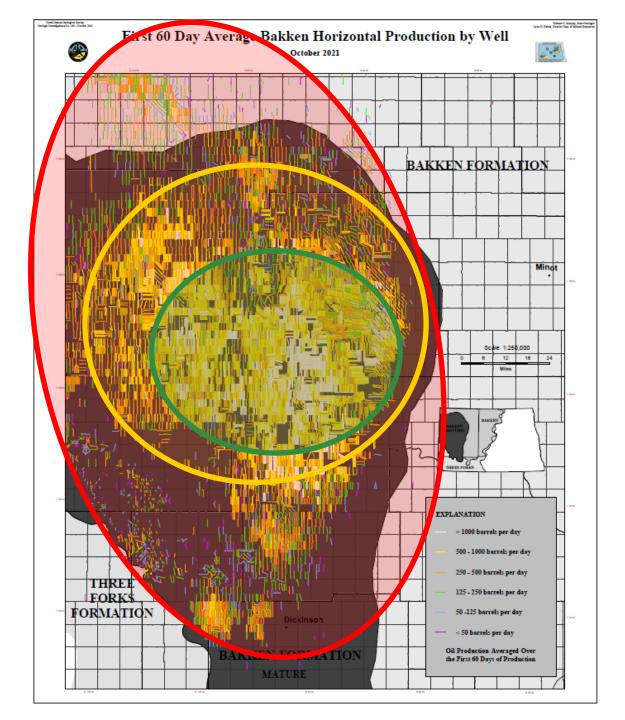


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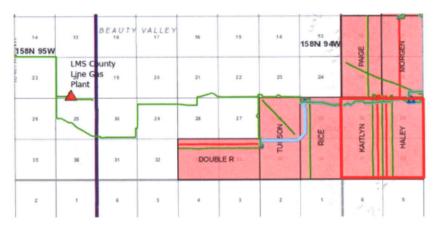




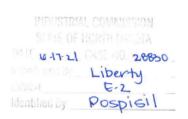




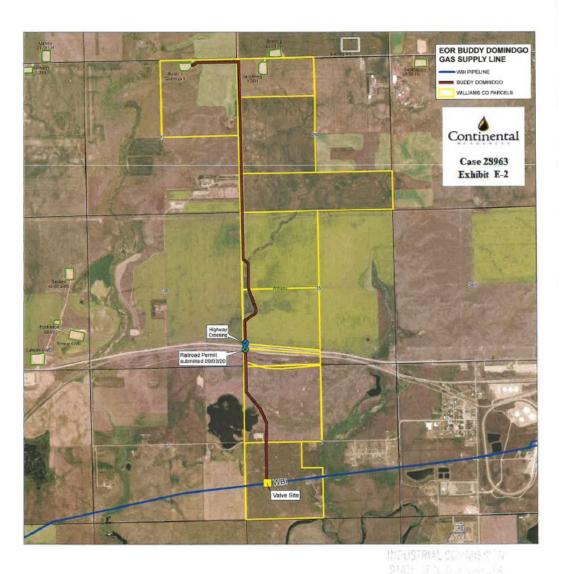
Features of Project Location



- 2560-acre Spacing Unit of Interest
 Existing Middle Bakken Horizontal
 Existing Three Forks Horizontal
 Existing Gas Pipeline (LMS)
 Existing Water Pipeline (LMS)
- Location selected based on results and learnings from prior Bakken EOR pilots, specifically the "Stomping Horse" pilot documented in NDIC Case No. 27926.
- Utilizes more recently completed infill wells (August '19); limited depletion.
- · Accesses rich gas via connection to the gas plant gathering line.
- · Liberty operates most of the offsetting DSUs.
- Well & completion design provides for favorable conformance along the horizontal interval using cemented liners with "Plug & Perf" completions.
- · Jet pump operations ease well conversion to injection.
- Offset well configuration allows for surveillance and boundaries.







20021 2003

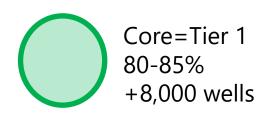
HE 9-30-21 2003

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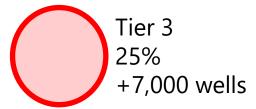
Experiment

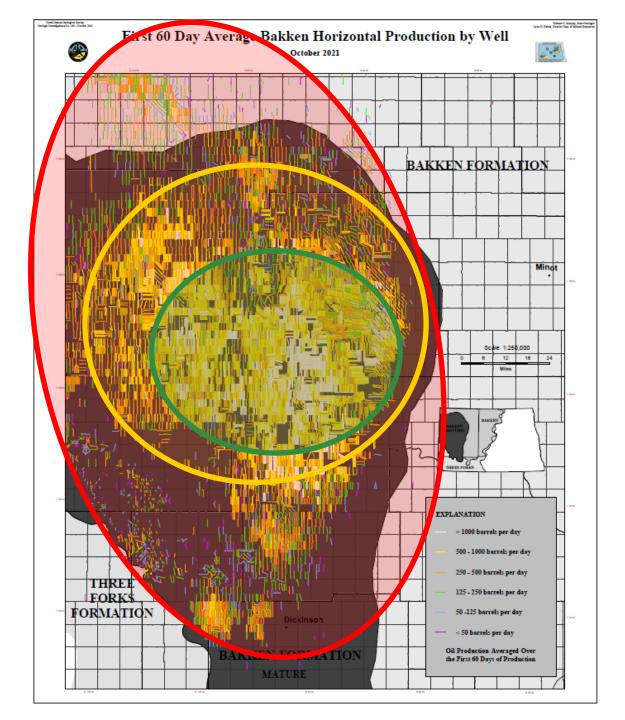
Experiment

Bennett









Geologic Structure Map Top Upper Bakken Shale C.I.= 100 ft Subsea



6-17-21



- Existing Three Forks Horizontal

Existing Liberty Spacing unit

- Existing 1920-acre Spacing Unit

- Proposed 3840-acre Spacing Unit



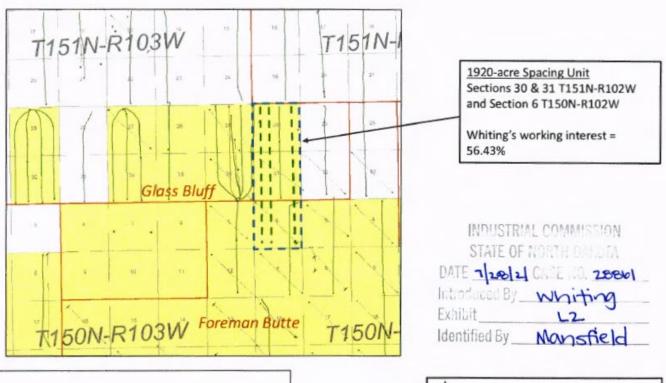
Liberty Case No. 28831 G-1

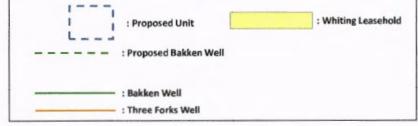
dentition by McChesney

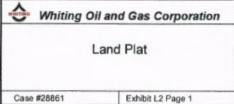


Legend	Case Status		
	Heard in May/June 2021		
1	28855		
2	28856		
3	3 28857		
4	4 28858		

Kraken Operating, LLC Case Nos. 28855, 28856, 28857, 28858 July 28, 2021 Supp. Exhibit A





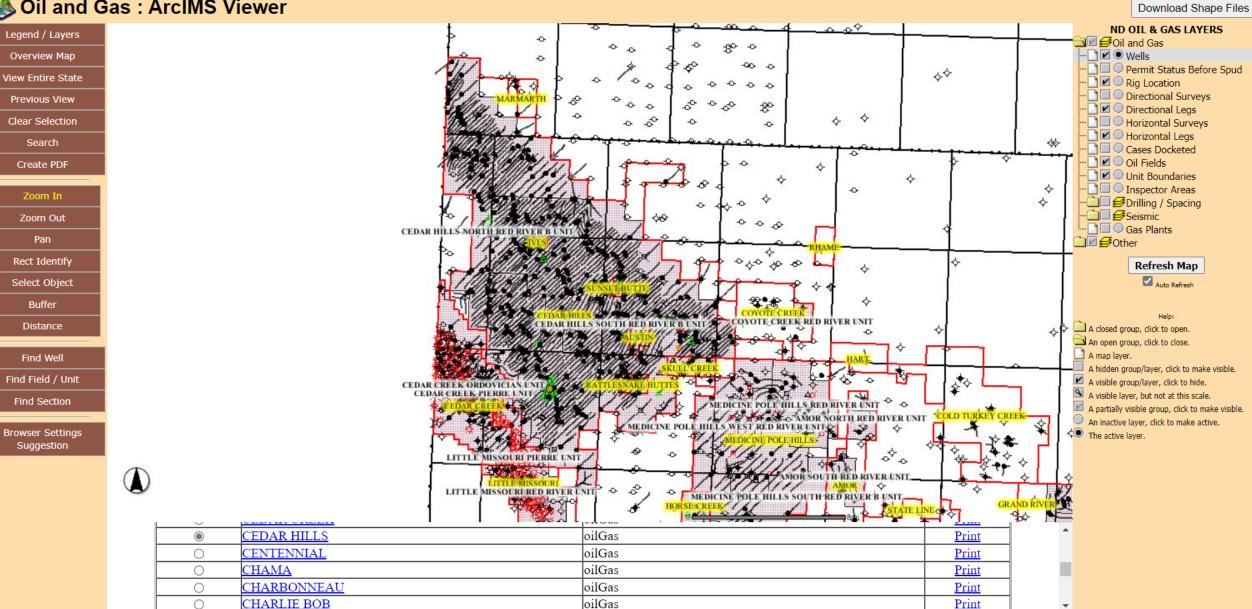


D. Mansfield

July 28, 2021

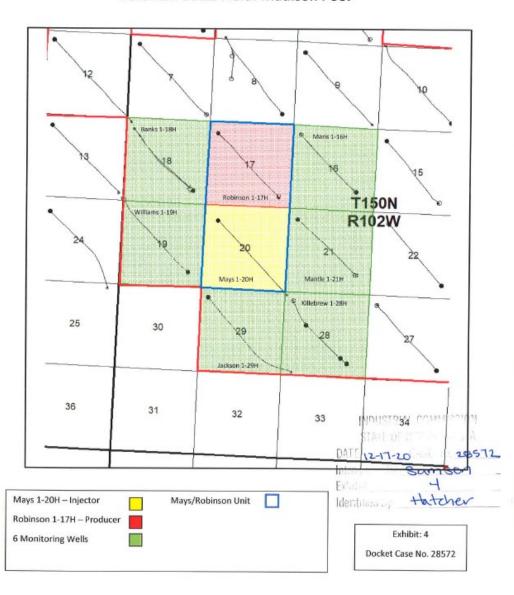


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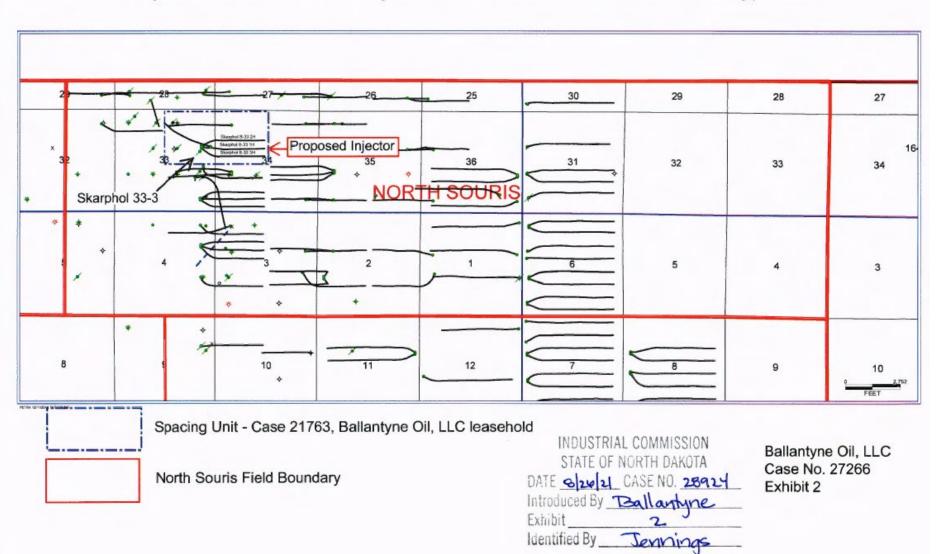


Mays Waterflood Test Plat

Foreman Butte Field: Madison Pool



Proposed horizontal water injection well location and offset vertical type well





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Orphaned Well Site Plugging, Remediation, and Restoration Section 40601 of the Infrastructure Investment and Jobs Act

Grant Timeline

	2021		
		11/15/2021 Enactment of the Infrastructure Investment and Jobs Act. (Sect 40601 -)	ion
		1/30/2021 Report documented orphan wells as of 11/15/21 to IOGCC	
_	2022	12/30/2021 Notice of Intent to Apply for "Formula" Funding Grant	
	2022	1/29/2022 Posting of "Formula" Funding Grant amounts online	
		5/14/2022 Application deadline for "Initial-25" Funding Grants	
		6/13/2022 (If "Initial-25" Grant Received) - Date funds received by state.	
		9/11/2022 No less than 90% of "Initial-25" Grant funds received must be obligated.	
		10/11/2022 Earliest date to apply for "Performance-Regulatory Improvement "Performance-Matching" Grant that could allow for earliest recognition funds.	
	2022	12/10/2022 Earliest date "Performance-Regulatory Improvement" & "Performance-Regulatory Improvement & "Performanc	rmance
2	2023	6/13/2023 Deadline for "Initial-25" Funding Grants to be obligated.	
		6/30/2023 1st "Performance-Matching" Grant fund expensed.	
		9/30/2023 Final Report on "Initial-25" Funding Grants due.	
	2031	6/30/2031 Deadline for all "Performance-Matching" Grant eligibility. Not to a total amount received of \$30,000,000 between 2022-2031 per	
	2032	12/7/2022 Daimbarran of factilities to make in the state of the state	
		12/7/2032 Reimbursement for failure to maintain protections under the	

"Performance-Regulatory Improvement" Grant Due, if appliable.

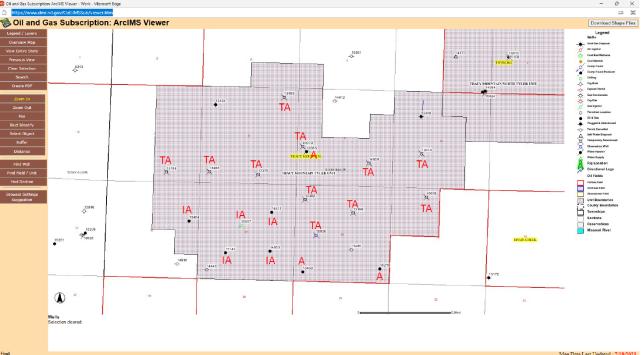
Table 13. Updated Data on Documented Orphan Wells

^{*} Report the number of documented orphan wells as of November 15, 2021, if available. If the reported number relates to a different date, please specify that date.

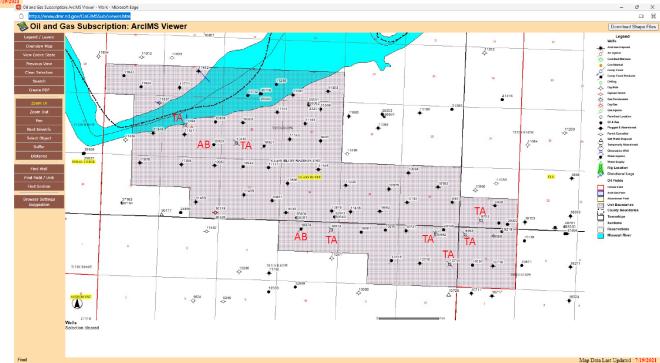
State	Total Documented Orphan Wells*	Documented Orphan Wells on State and Private Lands*	Date of Reported Number if other than November 15, 2021
Alabama			
Alaska			
Arizona			
Arkansas			
California			
Colorado			
Florida			
Georgia			
Idaho			
Illinois			
Indiana			
Kansas			
Kentucky			
Louisiana			
Maryland			
Michigan			
Mississippi			
Missouri			
Montana			
Nebraska			
Nevada			
New Mexico			
New York			
North Carolina			
North Dakota	232	186	11/30/2021
Ohio			
Oklahoma			
Oregon			
Pennsylvania			
South Carolina			
South Dakota			
Tennessee			
Texas			
Utah			
Virginia			
Washington			
West Virginia			
Wyoming			
Totals - States			
	1 2 20 1 1 11	at differs by 10% or more from the	

Please provide an explanation if the orphan well count differs by 10% or more from the count as of December 31, 2020:

The reduction in wells reported between December 31, 2020 and November 30, 2021 is a result of North Dakota's ongoing plugging and reclamation work completed.



Matching Grants



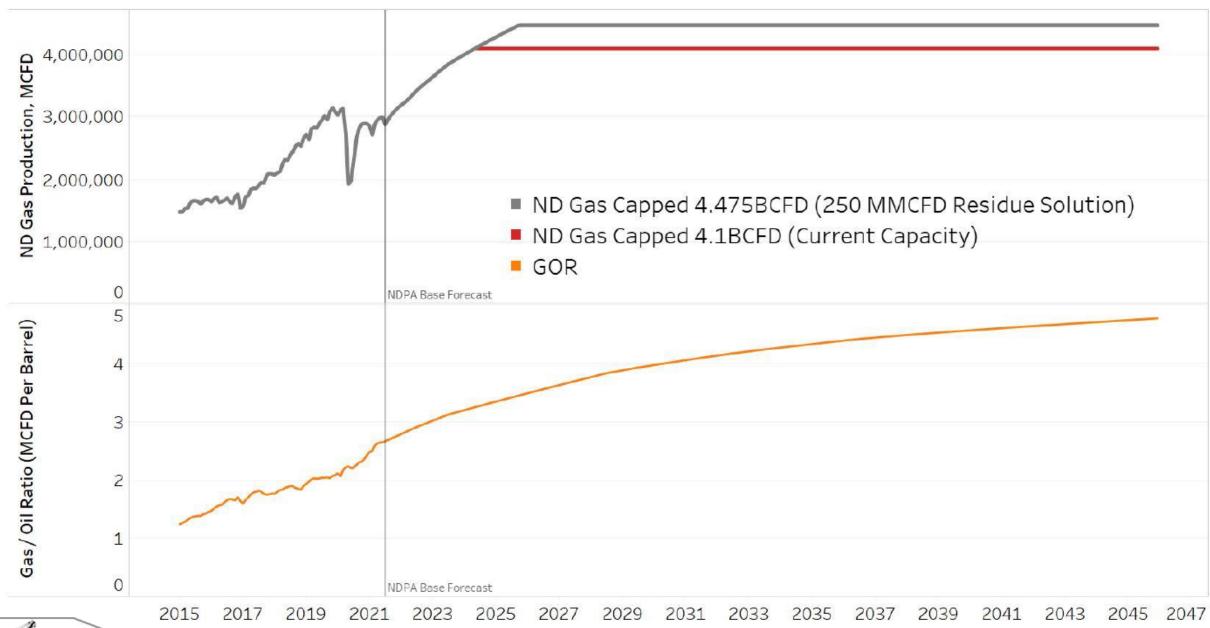


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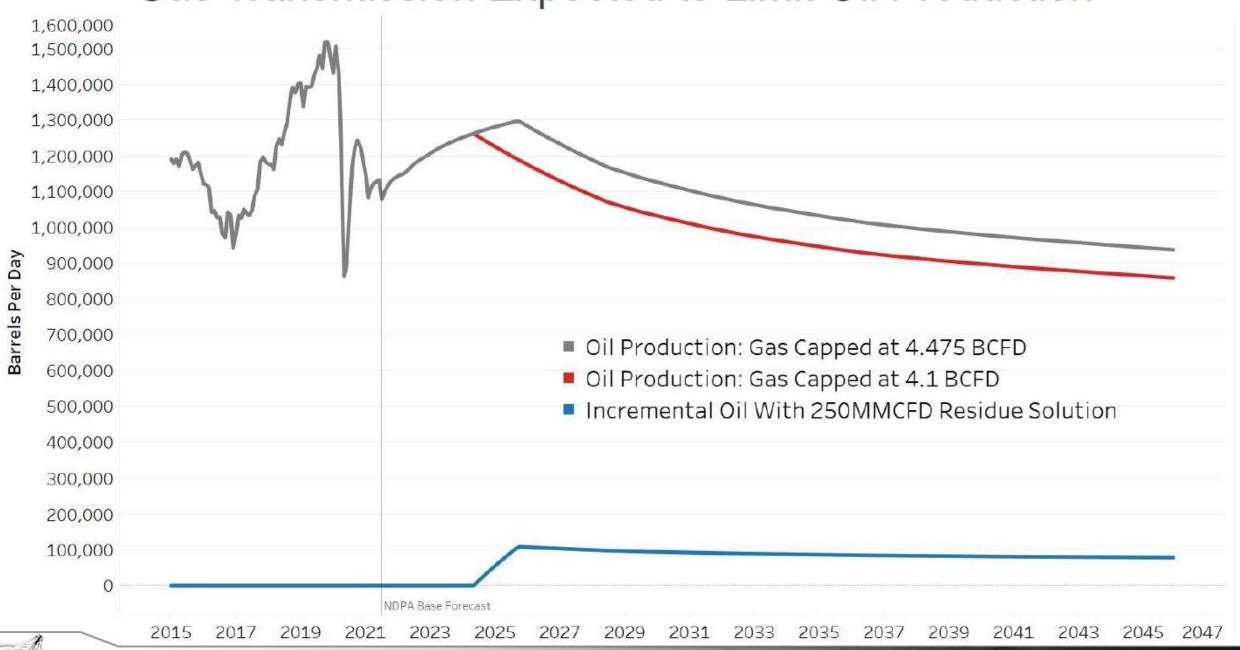
Bakken Natural Gas Infrastructure



Gas Transmission Expected to Limit Oil Production



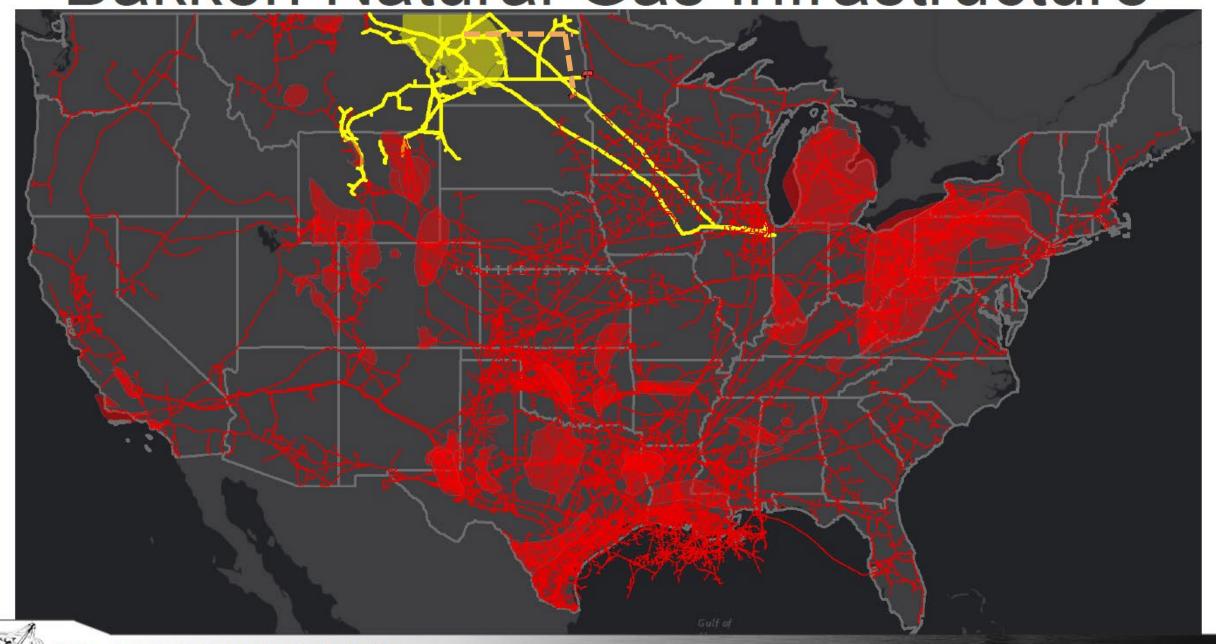
Gas Transmission Expected to Limit Oil Production

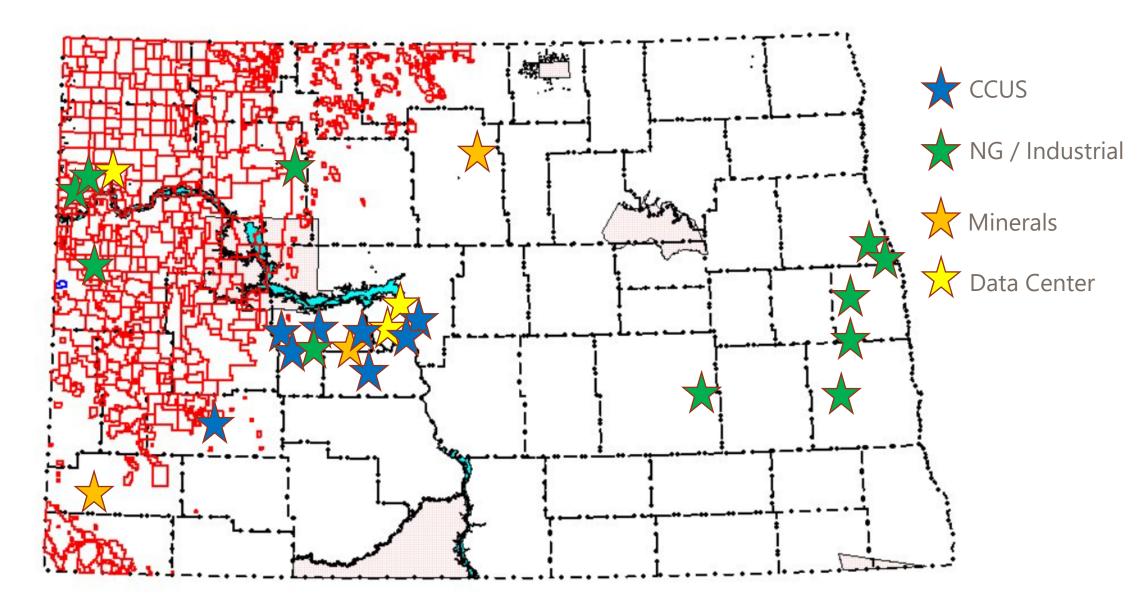


Legislative Appropriation: Senate Bill 2345 Section 1, subsection 1

There is appropriated from federal funds derived from the state fiscal recovery fund, not otherwise appropriated, the sum of \$150,000,000, or so much of the sum as may be necessary, to the Industrial Commission for the purpose of pipeline infrastructure grants to allow for the transportation of natural gas to eastern North Dakota for the period beginning December 1, 2021 and ending June 30, 2023. Of the funds appropriated in this subsection, at least \$10,000,000 must be used for a project to transport natural gas to areas in Grand Forks County.

Bakken Natural Gas Infrastructure







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North Dakota Department of Mineral Resources www.dmr.nd.gov

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