

Introduced by

Energy and Natural Resources Committee

(At the request of the Industrial Commission)

1 A BILL for an Act to create and enact ~~section 15-05-09.1 and~~ chapter 38-25 of the North Dakota  
 2 Century Code, relating to ~~the authority of the board of university and school lands to lease lands~~  
 3 ~~under its control for the underground storage of oil or gas and~~ the jurisdiction of the industrial  
 4 commission to regulate the permitting and amalgamation of the underground storage of oil or  
 5 gas; and to amend and reenact sections 15-05-09 and 15-05-10 of the North Dakota Century  
 6 Code, relating to oil and gas leases and royalties from oil leases.

7 **BE IT ENACTED BY THE LEGISLATIVE ASSEMBLY OF NORTH DAKOTA:**

8 ~~SECTION 1. Section 15-05-09.1 of the North Dakota Century Code is created and enacted~~  
 9 ~~as follows:~~

10 ~~15-05-09.1. Authorization to lease for the underground storage of oil or gas.~~

11 ~~The board of university and school lands may lease any lands under the board's control for~~  
 12 ~~the underground storage of oil, natural gas, including hydrogen, and any other liquid~~  
 13 ~~hydrocarbons and may establish any rules and regulations necessary concerning the leasing of~~  
 14 ~~such rights.~~

15 **SECTION 1. AMENDMENT.** Section 15-05-09 of the North Dakota Century Code is  
 16 amended and reenacted as follows:

17 **15-05-09. Leases for oil, gas, and other products.**

18 The board of university and school lands may lease any lands under its control believed to  
 19 contain oil, gas, coal, cement materials, sodium sulfate, sand and gravel, road material, building  
 20 stone, chemical substances, metallic ores, ~~or~~ colloidal or other clays, or other naturally  
 21 occurring elements and their compounds, and may make and establish rules and regulations for  
 22 development ~~and~~, drilling, and mining operations.

23 **SECTION 2. AMENDMENT.** Section 15-05-10 of the North Dakota Century Code is  
 24 amended and reenacted as follows:

**15-05-10. Royalties from oil and gas leases - Rents from other leases - Rules.**

Oil and gas leases must be made by the board of university and school lands at such annual minimum payments as are determined by the board, but the royalty shall be not less than twelve and one-half percent of the gross output of oil from the lands leased. Oil and gas leases made by the board may authorize a royalty of less than twelve and one-half percent for production from stripper well properties or individual stripper wells and qualifying secondary recovery and qualifying tertiary recovery projects as defined in section 57-51.1-01. Leases ~~for gas, coal, cement materials, sodium sulfate, sand and gravel, road material, building stone, chemical substances, metallic ores, or colloidal or other clays~~ issued by the board under section 15-05-09 for products other than oil and gas must ~~be made by the board in such annual payments~~ provide for adequate rental payments and other provisions as ~~are~~ determined by the board. The board may adopt rules regarding annual rental payments and royalties under this section.

**SECTION 3.** Chapter 38-25 of the North Dakota Century Code is created and enacted as follows:

**38-25-01. Definitions.**

As used in this section:

1. "Commission" mean the industrial commission.
2. "Gas" includes all natural gas, including hydrogen, and all other fluid hydrocarbons not defined as oil.
3. "Geological storage" means the underground storage of oil or gas in a storage reservoir or salt cavern.
4. "Oil" includes crude petroleum oil and other hydrocarbons regardless of gravity which are produced at the wellhead in liquid form and the liquid hydrocarbons known as distillate or condensate recovered or extracted from gas, other than gas produced in association with oil and commonly known as casinghead gas.
5. "Permit" means a permit issued by the commission allowing a person to operate an underground storage facility.
6. "Pore space" has the same meaning as in section 47-31-02.
7. "Prevent waste" means locating, spacing, drilling, equipping, operating, or producing of any oil or gas storage well or facility in a manner that causes, or tends to cause, a

1 reduction in the quantity of oil or gas stored, or which causes or tends to cause  
2 unnecessary loss or destruction of oil or gas.

3 8. "Reservoir" means a subsurface sedimentary stratum, formation, aquifer, or void,  
4 whether natural or artificially created, including oil and gas reservoirs and saline  
5 formations suitable for or capable of being made suitable for injecting, storing, and  
6 withdrawing oil or gas. The term does not include salt caverns.

7 ~~8-9.~~ "Salt cavern" means a natural occurring cavity contained within a salt formation or a  
8 cavity created in a salt formation by solution mining, suitable for injecting, storing, and  
9 withdrawing oil or gas.

10 ~~9-10.~~ "Solution mining" means the process of injecting fluid into a well to dissolve rock salt  
11 or other readily soluble rock to create a salt cavern for underground storage of oil or  
12 gas.

13 ~~10-11.~~ "Storage facility" means the reservoir, salt cavern, underground equipment, and  
14 surface facilities and equipment used or proposed to be used in an underground  
15 storage operation. The term does not include a pipeline used to transport oil or gas to  
16 the storage facility.

17 ~~11-12.~~ "Storage operator" means a person holding or applying for a permit.

18 13. "Waste" means the inefficient storing of oil or gas.

19 **38-25-02. Commission authority.**

20 The commission has authority:

- 21 1. Over all persons and property necessary to administer and enforce this chapter when  
22 necessary to prevent waste, to protect correlative rights, or to effect greater ultimate  
23 storage and recovery of oil and gas.
- 24 2. To regulate activities relating to an underground storage facility, including construction,  
25 solution mining to create salt caverns, operation, and closure.
- 26 3. To enter an underground storage facility at a reasonable time and manner to inspect  
27 equipment and facilities, to observe, monitor, and investigate operations, and to  
28 inspect records required to be maintained at the facility.
- 29 4. To require storage operators provide financial assurance, including bonds, to ensure  
30 money is available to fulfill the storage operator's duties.

- 1       5. To exercise continuing jurisdiction over storage operators and storage facilities,  
2       including the authority to amend or revoke a permit after notice and hearing.
- 3       6. After notice and hearing, to dissolve or change the boundaries of any commission  
4       established oil or gas field or unit within or near a storage reservoir's or salt cavern's  
5       boundaries.
- 6       7. After notice and hearing, to adopt reasonable rules and issue reasonable orders to  
7       implement the policies of this chapter.
- 8       8. After notice and hearing, to grant exceptions to this chapter's requirements and  
9       implementing rules ~~for good cause~~ if required to comply with applicable federal law.

10       **38-25-03. Permit required - Permit transfer.**

11       Geologic storage is allowed if permitted by the commission. A permit may be transferred if  
12       the commission consents.

13       **38-25-04. Permit hearing - Hearing notice.**

- 14       1. The commission shall hold a public hearing before issuing any storage permit.
- 15       2. Notice of the hearing must be published for two consecutive weeks in the official  
16       newspaper of the county or counties where the storage reservoir or salt cavern is  
17       proposed to be located and in any other newspaper the commission requires.  
18       Publication deadlines must comply with commission requirements.
- 19       3. Notice of hearing must be given to each surface owner of land overlying the storage  
20       reservoir or salt cavern and within one-half mile [0.80 kilometer] of the reservoir's or  
21       salt cavern's boundaries.
- 22       4. If the proposed storage facility contemplates storage of oil or gas in an oil and gas  
23       reservoir, notice of the hearing also must be given to each mineral lessee, mineral  
24       owner, and pore space owner within the storage reservoir and within one-half mile  
25       [0.80 kilometer] of the storage reservoir's boundaries.
- 26       5. If the proposed storage facility contemplates storage of oil or gas in a salt cavern,  
27       notice of the hearing must be given to each salt mineral lessee, salt mineral owner,  
28       and pore space owner within the salt cavern outer boundaries and within one-half mile  
29       [0.80 kilometer] of the outer boundaries of the salt cavern, or as otherwise may be  
30       required by the commission.

1       6. If the storage facility contemplates storage of oil or gas in a saline formation or aquifer,  
2           notice of hearing must be given to each pore space owner within the storage reservoir  
3           and within one-half mile [0.80 kilometer] of the storage reservoir's boundaries.

4       7. Hearing notices required by this section must comply with the deadlines set by the  
5           commission and must contain the information the commission requires.

6       **38-25-05. Permit requirements - Storage in oil and gas reservoir.**

7       Before issuing a permit for storage in an oil and gas reservoir, the commission shall find:

8       1. The storage operator has or will obtain the consent by lease, purchase, or other  
9           agreement from all surface owners where surface disturbance activities are necessary  
10          and surface facilities will be located.

11      2. The storage operator has complied with all requirements set by the commission.

12      3. The storage facility is suitable and feasible for the injection, storage, and withdrawal of  
13          oil or gas.

14      4. The storage operator has made a good-faith effort to get the consent of all persons  
15          that own the storage reservoir's pore space.

16      5. The storage operator has made a good-faith effort to obtain the consent of all persons  
17          that own oil and gas minerals and oil and gas leases.

18      6. The storage operator has obtained the consent of persons that own at least fifty-five  
19          percent of the storage reservoir's pore space unless the percentage required to unitize  
20          the oil and gas unit is otherwise provided for by order of the commission before  
21          August 1, 2021, if so the percentage in the order prevails.

22      7. The storage operator has obtained the consent of persons that own at least fifty-five  
23          percent of the storage reservoir's oil and gas minerals and oil and gas leases unless  
24          the percentage required to unitize the oil and gas unit is otherwise provided for by  
25          order of the commission before August 1, 2021, if so the percentage in the order  
26          prevails.

27      8. Whether the storage reservoir contains any commercially valuable oil, gas, or other  
28          minerals and, if it does, a permit may be issued only if the commission is satisfied the  
29          interests of the mineral owners or mineral lessees will not be affected adversely or  
30          have been addressed in an arrangement entered by the mineral owners or mineral  
31          lessees and the storage operator.

- 1        9. The proposed storage facility will not affect adversely surface waters or formations  
2        containing fresh water.
- 3        10. The injected oil or gas will not escape from the storage reservoir.
- 4        11. The storage facility will not endanger health or unduly endanger the environment.
- 5        12. The storage facility is in the public interest.
- 6        13. The vertical boundaries of the storage reservoir are defined to include any necessary  
7        or reasonable buffer zones for the purpose of ensuring the safe operations of the  
8        storage facility and to protect the storage facility against pollution, invasion, and  
9        escape or migration of oil or gas therefrom.
- 10       14. The horizontal extent of the injected gas within the storage reservoir, as estimated by  
11       reasonable means and confirmed through appropriate monitoring methods, are  
12       defined to include any necessary or reasonable buffer zones for the purpose of  
13       ensuring the safe operations of the storage facility and to protect the storage facility  
14       against pollution, invasion, and escape or migration of oil or gas therefrom.
- 15       15. The storage operator will establish monitoring facilities and protocols to assess the  
16       location and migration of oil and gas, if any, injected for storage and to ensure  
17       compliance with all permit, statutory, and administrative requirements.
- 18       16. The method of underground storage is reasonably necessary to effectively carry on  
19       the joint effort, will prevent waste, and, with reasonable probability, will result in the  
20       increased storage and recovery of more oil and gas.
- 21       17. The time, conditions, and method by which the storage facility must be dissolved and  
22       the facility's affairs wound up. A storage facility may be dissolved ten years after the  
23       storage facility permit is issued upon a petition to the commission by the pore space  
24       owners and mineral owners that are credited with at least the percentage of interest of  
25       the pore space required to ratify the storage facility amalgamation agreement, and a  
26       subsequent hearing and order by the commission.
- 27       18. All nonconsenting owners are or will be compensated equitably.

28       **38-25-06. Permit requirements - Storage in saline reservoir or aquifer.**

29       Before issuing a permit for storage in a saline reservoir or aquifer, the commission shall

30       find:

- 1        1. The storage operator has or will obtain the consent by lease, purchase, or other  
2            agreement from all surface owners where surface disturbance activities are necessary  
3            and surface facilities will be located.
- 4        2. The storage operator has complied with all requirements set by the commission.
- 5        3. The storage facility is suitable and feasible for the injection, storage, and withdrawal of  
6            oil or gas.
- 7        4. The storage operator has made a good-faith effort to obtain the consent of all persons  
8            that own the storage reservoir's pore space.
- 9        5. The storage operator has obtained the consent of persons that own at least  
10          fifty-fivesixty percent of the storage reservoir's pore space.
- 11       6. The proposed storage facility will not affect adversely surface waters or formations  
12          containing fresh water.
- 13       7. The injected oil or gas will not escape from the storage reservoir.
- 14       8. The storage facility will not endanger health or unduly endanger the environment.
- 15       9. The storage facility is in the public interest.
- 16       10. The vertical boundaries of the storage reservoir are defined to include any necessary  
17          or reasonable buffer zones for the purpose of ensuring the safe operations of the  
18          storage facility and to protect the storage facility against pollution, invasion, and  
19          escape or migration of oil or gas therefrom.
- 20       11. The horizontal extent of the injected gas within the storage reservoir, as estimated by  
21          reasonable means and confirmed through appropriate monitoring methods, are  
22          defined to include any necessary or reasonable buffer zones for the purpose of  
23          ensuring the safe operations of the storage facility and to protect the storage facility  
24          against pollution, invasion, and escape or migration of oil or gas therefrom.
- 25       12. The storage operator will establish monitoring facilities and protocols to assess the  
26          location and migration of oil and gas, if any, injected for storage and to ensure  
27          compliance with all permit, statutory, and administrative requirements.
- 28       13. The method of underground storage is reasonably necessary to effectively carry on  
29          the joint effort, will prevent waste, and, with reasonable probability, will result in the  
30          increased storage and recovery of more oil and gas.

1 14. The time, conditions, and method by which the storage facility must be dissolved and  
2 the facility's affairs wound up. A storage facility may be dissolved ten years after the  
3 storage facility permit is issued upon a petition to the commission by the pore space  
4 owners and mineral owners that are credited with at least the percentage of interest of  
5 the pore space required to ratify the storage facility amalgamation agreement, and a  
6 subsequent hearing and order by the commission.

7 15. All nonconsenting pore space owners are or will be compensated equitably.

8 **38-25-07. Permit requirements - Storage in salt cavern.**

9 Before issuing a permit for storage in a salt cavern, the commission shall find:

- 10 1. The storage operator has or will obtain the consent by lease, purchase, or other  
11 agreement from all surface owners where surface disturbance activities are necessary  
12 and surface facilities will be located.
- 13 2. The storage operator has complied with all requirements set by the commission,  
14 including all necessary permits to conduct solution mining, if applicable.
- 15 3. The storage facility is suitable and feasible for the injection, storage, and withdrawal of  
16 oil or gas.
- 17 4. The storage operator has made a good-faith effort to obtain the consent of all persons  
18 that own the salt cavern's pore space.
- 19 5. The storage operator has made a good-faith effort to obtain the consent of all persons  
20 that own the salt cavern's salt minerals and salt leases.
- 21 6. The storage operator has obtained the consent of persons that own at least  
22 fifty-fivesixty percent of the salt cavern's pore space.
- 23 7. The storage operator has obtained the consent of persons that own at least  
24 fifty-fivesixty percent of the salt cavern's salt minerals and salt leases.
- 25 8. The proposed storage facility will not affect adversely surface waters or formations  
26 containing fresh water.
- 27 9. The injected oil or gas will not escape from the salt cavern.
- 28 10. The storage facility will not endanger health or unduly endanger the environment.
- 29 11. The storage facility is in the public interest.
- 30 12. The horizontal and vertical boundaries of the salt cavern are defined to include a  
31 buffer zone from the outer walls of the cavern for the purpose of ensuring the safe



1           operation of the storage facility and to protect the storage facility against pollution,  
2           invasion, and escape or migration of gas therefrom.

3       13. The storage operator will establish monitoring facilities and protocols to assess the  
4           location and migration of oil and gas, if any, injected for storage and to ensure  
5           compliance with all permit, statutory, and administrative requirements.

6       14. The method of underground storage is reasonably necessary to effectively carry on  
7           the joint effort, will prevent waste, and, with reasonable probability, will result in the  
8           increased storage and recovery of more oil and gas.

9       15. The time, conditions, and method by which the storage facility must be dissolved and  
10           the facility's affairs wound up. A storage facility may be dissolved ten years after the  
11           storage facility permit is issued upon a petition to the commission by the pore space  
12           owners and mineral owners that are credited with at least the percentage of interest of  
13           the pore space required to ratify the storage facility amalgamation agreement, and a  
14           subsequent hearing and order by the commission.

15       16. That all nonconsenting owners are or will be equitably compensated.

16       **38-25-08. Amalgamating property interests.**

17           If a storage operator does not obtain the consent of all persons owning a pore space and of  
18           mineral interest owners when required by this chapter, the commission may require the interest  
19           owned by the nonconsenting owners be included in an approved storage facility and subject to  
20           geologic storage.

21       **38-25-09. Ownership of oil and gas.**

22           All oil or gas previously reduced to possession and subsequently injected into underground  
23           storage facilities must be deemed the property of the storage operator subject to the obligation  
24           to pay royalties as set forth in section 38-25-10.

25       **38-25-10. Injection of produced gas - When royalties owed.**

26       1. Unless otherwise expressly agreed by the storage operator, mineral owners, and lease  
27           owners, royalties on gas produced but not sold and which is injected into a storage  
28           facility instead of flaring or for lack of market, are not due on the produced and stored  
29           gas until gas volumes actually are withdrawn from the storage facility, sold, and  
30           proceeds received from the sale.

1       2. Prior to gas being withdrawn and sold from a storage facility under this section, the  
2       storage operator, after notice and hearing, shall obtain approval from the commission  
3       evidencing a reasonable and equitable method of allocation of the stored gas sale  
4       proceeds to the rightful mineral, royalty, and leasehold owners of the gas injected into  
5       storage. The commission may adopt such rules and orders as necessary to implement  
6       the purposes of this section.

7       **38-25-11. Application.**

8       This chapter does not apply to applications filed with the commission which propose to use  
9       produced gas for an enhanced oil or gas recovery project. Those applications must be  
10      processed under chapter 38-08.