

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Form H-4
4/82

Return To:
DIRECTOR, Underground Injection Control
Oil and Gas Division
Railroad Commission of Texas
Capitol Station-P.O. Drawer 12967
Austin, Texas 78711

APPLICATION TO CREATE, OPERATE AND MAINTAIN AN UNDERGROUND HYDROCARBON STORAGE FACILITY

1. Operator Name		2. Operator No.						
3. Address (Street, City, State and Zip Code)			4. RRC Dist.					
5. Lease Name(s), if applicable		6a. Oil Lease No(s), if assigned	6b. Gas ID No(s), if assigned					
7. Field Name		8. RRC Field No.,if assigned	9. County					
10. General Location This facility will be _____ miles in a _____ direction from _____, (nearest post office or town.)								
11. <input type="checkbox"/> New Project <input type="checkbox"/> Expansion Initial Authority Dated _____ by Special Order No. _____								
12. Type of Structure <input type="checkbox"/> domal salt <input type="checkbox"/> bedded salt		13. Depth to Top of Caprock (ft)	14. Depth to Top of Salt (ft)					
15. Current Number of Cavities in Project		16. Number of Cavities in this Application						
17. Cavity Name and Well No.	18. Location (Sec.,Blk.,Survey) Distance from Survey Lines	19. Size and Capacity When Fully Leached			20. Injection Rate		21. Injection Pressure	
		Top of Cavity (ft)	Bottom of Cavity (ft)	Capacity (thousand bbbls)	daily (bbbls)		daily (psig)	
					avg.	max.	avg.	max.
22. List Underground Hydrocarbon Storage Facilities within One Mile of the Proposed Facility.								
<p style="text-align: center;">CERTIFICATE</p> <p>I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.</p>				<p style="text-align: right;">_____ Signature</p> <p>Name of Person (type or print) _____ Title _____</p> <p>Telephone _____ Area Code _____ Number _____ Date _____</p>				
FOR RRC USE ONLY								

INSTRUCTIONS (H-4)

1. File the original application, including all attachments, with the Director of Underground Injection Control, P.O. Drawer 12967, Capitol Station, Austin, Texas 78711. File one copy of the application and its attachments with the appropriate District Office.
2. Attach a map with surveys marked showing the location and depth of all wells of public record within one-quarter (1/4) mile radius of each facility well and areal limits of each storage cavity. For those wells which penetrate the top of the caprock, attach a tabulation of the wells showing the dates the wells were drilled and the present status of the wells. Attach plugging records for abandoned wells. If any nearby facilities include storage cavities that extend within one-quarter (1/4) mile of the proposed facility, map and identify those facilities.
3. Describe the geology of the site. Include, for all zones penetrated by the storage well, the geological formation name, lithologic description, thickness, and any faults or fractures. Provide geologic cross sections drawn perpendicular to each other and extending a half mile beyond the limits of the storage cavities. Attach a copy of the electrical logs and other data used in drawing cross sections.
4. Outline step by step well completion procedures, including logging and casing testing. Describe each storage cavity well completion by diagrammatic sketch. Attach a tabulation of the casing and cementing program for each cavity well, including information on the type, size, weight, grade, and setting depth of all casing strings, number and location of centralizers, cementing technique, type and volume of cement, cement additives, and gel.
5. Describe the cavity development process, including the composition of displacement fluid, injection rates during cavity creation, cavity-boundary monitoring, method of circulation, and use of blanket liquids.
6. Attach a list of the type and composition of the liquids to be stored in each cavity.
7. Describe abandonment procedures and provide diagrammatic sketches for plugging of facility wells. State composition of the fluid to be used to fill cavities.
8. Attach a letter from the Texas Department of Water Resources, P.O. Box 13087, Capitol Station, Austin Texas 78711, stating the depth to which usable-quality ground water occurs in the area of the proposed facility.
9. (a) Attach a plat of leases or owned properties showing the proposed areal limits of the proposed storage cavity facility and the ownership of property or leases adjacent to the proposed facility.
(b)(1) Send copies of the application, including both sides of the form, to the surface owners located over the facility and to adjacent offset operators or leaseholders. Attach a signed statement indicating the date the copies of the application were mailed or delivered and the names and addresses of the persons to whom copies were sent.
(2) Attach an affidavit of publication signed by the publisher that notice of the application has been published for three consecutive days in a newspaper of general circulation for the county where the facility will be located. Notice instructions and forms may be obtained from the Commission's Austin Office or the District Offices.
(c) A public hearing will be held for all new storage facilities after the Commission provides notice of the hearing to all persons listed pursuant to Section 9(b) (1) above. No public hearing will be held on applications for expansions of existing facilities unless a protest is received requesting a public hearing. Any such request for a public hearing shall be in writing and contain: (1) the name, mailing address, and phone number of the person making the request; and (2) a brief description of how the protestant would be adversely affected by the granting of the application. If the Commission determines that a valid protest has been received, or that a public hearing would be in the public interest, a hearing will be held after the issuance of proper and timely notice of the hearing by the Commission. If no protest is received within fifteen (15) days of the date of publication or receipt in Austin of the application, the application may be processed administratively.