

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Form H-1 05/2004

APPLICATION TO INJECT FLUID INTO A RESERVOIR PRODUCTIVE OF OIL OR	GAS
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1.Operator name L.C.S. Production (as shown on P-5.)	Company Organization Report)	2. Operator P-5 No. 479574							
3.Operator Address P O Box 6663		8-6663							
4. County Fisher	<u> </u>	·	5. RRC District No. <u>7B</u>						
6. Field Name <u>Keeler-Wimberly (C</u>	anyon Sd.)	· · · · ·	7. Field No. <u>48422500</u>						
8. Lease Name Wickham A	,		9. Lease/Gas ID No. N/A						
10. Check the Appropriate Boxes:	New Project □	Amendment 🛚							
If amendment, Fluid Injection Project No. F-22665 (Original Authority 7/31/2023									
Reason for Amendment: Ad	dd wells □	Add or change type	es of fluids Change pressure						
Change volume ☐ Change interval ☒ Other (explain)									
[-	RESERVOIR DA	TA FOR A NEW P	ROJECT						
11. Name of Formation Canyon, Pale	o Pinto & Strawn	12. L	ithology Sand & Limestone						
(e.g., dolomite, limestone, sand, etc.) 13. Type of Trap Stratagraphic & Structural Antiline 14. Type of Drive during Primary Production Solution Gas (anticline, fault trap, stratigraphic trap, etc.)									
15. Average Pay Thickness 32	16. Lse/Unit Acreag	je <u>140</u> 17	7. Current Bottom Hole Pressure (psig) <u>320</u>						
18. Average Horizontal Permeability (md	(s) <u>30-50 mds</u>	19. Average Poros	sity (%) <u>14% - 17%</u>						
	INJECTIO	N PROJECT DATA	1						
20. No. of Injection Wells in this applicat	ion1								
21. Type of Injection Project: Waterfl	ood 🗆 Pressure M	aintenance 🗓 Mi	iscible Displacement Natural Gas Storage						
Steam	☐ Thermal Re	covery 🗆 Di	sposal						
22. If disposal, are fluids from leases oth	er than the lease iden	tified in Item 9?	Yes □ No 🔯						
23. Is this application for a Commercial I	Disposal Well ?		Yes □ No 🂢						
24. If for commercial disposal, will non-h	azardous oil and gas v	waste other than pro	oduced water be disposed? Yes No						
25. Type(s) of Injection Fluid:									
Salt Water	☐ Fresh Water ☐	$CO_2 \square N_2 \square$	Air \square H_2S \square LPG \square NORM \square						
Natural Gas ☐ Polymer ☐	Other (explain)		· · · · · · · · · · · · · · · · · · ·						
26. If water other than produced salt water will be injected, identify the source of each type of injection water by formation, or by aquifer and depths, or by name of surface water source:									
CERTIFICATE I declare under penalties prescribed in Sec. Resources Code, that I am authorized to ma report was prepared by me or under my sup and that the data and facts stated therein complete, to the best of my knowledge.	ke this report, that this pervision and direction,	Bennie Burklund 01/15/2025 Signature Date Bonnie Burklund (bonnieburklund@gmail.com) Name of Person (type or print)							
	4057 Fax								
For Office Use Only	Register No.		Amount \$						

INSTRUCTIONS FOR FORM H-1

- 1. **Application**. File the original Form H-1 application, including all attachments, with Assistant Director, Environmental Services, Railroad Commission of Texas, P. O. Box 12967, Capitol Station, Austin, Texas 78711. File one copy of the application and all attachments with the appropriate Railroad Commission District Office. Include with the original application a non-refundable fee of \$200, payable to the Railroad Commission of Texas. Submit an additional \$150 for each request for an exception to Statewide Rule 46(g)(3) and/or (j)(5)(B).
- Well Logs. Attach the complete electric log or a similar well log for one of the proposed injection wells or for a nearby well. Attach any other logging and testing data, such as a cement bond log, available for the well that supports this application.
- 3. (a) For a new project, 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 the proposed injection well(s).
 - (b) For an amendment to add wells to a previous authority, 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 the additional wells, unless such data has been submitted previously for the project.
 - (c) **Table of Wells**. For those wells in 3(a) or 3(b) that penetrate the top of the injection interval, attach a table of wells showing the dates drilled and their current status. The Commission may adjust or waive this data requirement in accordance with provisions in the "Area of Review" section of Statewide Rule 46 (Rule 46(e)).
- 4. Water Letter. Attach a letter from the Texas Commission on Environmental Quality (TCEQ) or its predecessor or successor agencies for a well within the project area stating the depth to which usable quality water occurs.
- 5. **Form(s) H-1A**. Attach Form H-1A showing each injection well to be used in the project. Up to TWO wells can be listed on each Form H-1A.
- 6. **Use of Fresh Water**. Attach Form H-7, Fresh Water Data Form, for a new injection project that includes the use of fresh water. An updated Form H-7 must be attached to Form H-1 for an expansion of a previously authorized fresh water injection project unless the fresh water is purchased from a commercial supplier, public entity, or from another operator.
- 7. Plat of Leases, Notice and Hearings
 - (a) <u>Plat of Leases</u>. Attach a plat of leases showing producing wells, injection wells, offset wells and identifying ownership of all surrounding leases within one-half (1/2) mile.
 - (b) Notice.
 - (1) Send or deliver a copy of the application to the owner of record of the surface tract on which the well(s) is located; each Commission-designated operator of any well located within one-half (1/2) mile of the proposed injection well(s); and the clerk of the city and county in which the well(s) is located. If this is the initial application for fluid injection authority for this reservoir, send copies of the application to all operators in the reservoir. 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) <u>Attach an affidavit of publication</u> signed by the publisher that notice of the application has been published in a newspaper of general circulation in the county where the well(s) will be located. Notice instructions and forms may be obtained from the Commission's Austin Office, the Commission's website (www.rrc.state.tx.us) or the District Offices. Attach a newspaper clipping of the published notice.
 - (c) <u>Protests and Hearings</u>. An affected person or local government may protest this application. A hearing on the application will be held if a protest is received and the applicant requests a hearing, or if the Commission determines that a hearing is in the public interest. 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 hearing would be in the public interest, a hearing will be held after issuance of proper and timely notice of the hearing by the Commission. If no protest is received within fifteen (15) days of publication or receipt in Austin of the application, the application may be processed administratively.

RAILROAD COMMISSION OF TEXAS -- OIL AND GAS DIVISION

Form H-1A INJECTION WELL DATA (attach to Form H-1)									Form H-1A	
1. Operator Name (as shown on P-5) 2. Operator Name (as shown on P-5)								•	or P-5 No. 479574	
3. Field Name Keeler-Wimberly (Canyon Sd.)						oompan ,	4. Field No. 18422500			
5. Current Lease Name Wickham A								6. Lease	/Gas ID No. 32741	
7. Lease is 7		s in a Northe	east	dies	ation from	Eskota	TX			
8. Well No.	9. API No 151-	32698	10. UIC No	'n	11. To	otal Depth 1	2. Date Drilled	13. Base	er of nearest town). of Usable Quality Water USDW 675'	
14. (a) Legal description of well location, including distance and direction from survey lines:330' FWL & 3,637' FWL of George Creath Survey, No. 221, A-388 (b) Latitude and Longitude of well location, if known (optional) Lat: Long.										
15. New Injection Well □ or Injection Well Amendment ☒ Reason for Amendment: Pressure ☒ Volume □ Interval ☒ Fluid Type □									nterval 🛛 Fluid Type 🗌	
0	Loine	, O-W DW-	11.1.0		(.	plain)				
Casing	Size	Setting Depth	Hole Size		eight	Cement Class	# Sacks of Cement	Top of Cement	Top Determined by	
16. Surface 17. Intermediate	8-5/8"	207'	12-1/4"		24#	. C	150	Surface	Circulation	
18. Long string	4-1/2"	4,996' 4,996'	7-7/8"		10.5# 10.5#	Н-Ехр	275	3,670'	Calculation	
19 DV Tool 20. Tubing size	4-1/2" 21. Tubin	4,996' g depth	7-7/8" 22. Injecti	on t	10.5# ubing packe	C&H Exp	615 23. Injection	1',120'	Calculation	
2-3/8"	4,1	170'	4	4,1	70'			4,250'	to 4,997'	
24. Cement Sque	•	` ′	Squeeze				No. of Sack	S	Top of Cement (ft)	
		9 4,800' w/2		n t	op (2 sk	(s)	·			
Proposed:	Drill ou	t CIBP @ 4,		hala	Motor Con	aration?	NOTE: KH-		"A- W 05	
25. Multiple Completion? 26. Downhole Water Separation? Yes □ No ☒ Yes □ No ☒						NOTE: If the answer is "Yes" to Item 25 or 26, provide a Wellbore Sketch				
27. F	luid Type					ion volume for			injection volume for each	
Salt Water			each fluid		e (rate in bp 2,000 br	od or mcf/d)	fluid type (rate in bpd or mcf/d) 300 bpd			
- Cart vale								OUU DPU		
30. Maximum Sui			for Liqu			F - · 3	for Gas		psig.	
8. Well No.	9. API No		10. UIC No	• .	11. To	otal Depth 1	2. Date Drilled	13. Base (ft)	of Usable Quality Water	
14. (a) Legal des	cription of v	well location, include	ling distand	e ar	nd direction	from survey lin	es:	. 1 (-7		
(b) Latitude a	and Longitu	de of well location,	if known (c	ptio	nal) Lat.			Long.		
15. New Injection Well \square or Injection Well Amendment \square Reason for Amendment: Pressure \square Volume \square Interval \square Fluid Type \square							nterval 🗆 Fluid Type 🗀 🗎			
				ل_	Other (ex				T =	
Casing	Size	Setting Depth	Hole Siz		asing eight	Cement Class	# Sacks of Cement	Top of Cement	Top Determined by	
16. Surface 17. Intermediate									:	
18. Long string										
19. Liner 20. Tubing size	21. Tubin	g depth	22. Injec	tion	tubing pack	ker depth	23. Injection	interval		
						to				
24. Cement Sque	24. Cement Squeeze Operations (List all) Squeeze Interval (ft)				No. of Sacks Top of Cement (ft)		Top of Cement (ft)			
			ļ							
25 Multiple Completion?				naration?	NOTE: With angueric West to the Of					
25. Multiple Completion? Yes □ No □			26. Downhole Water Separation? Yes □ No □				NOTE: If the answer is "Yes" to Item 25 or 26, provide a Wellbore Sketch			
27. Fluid Type 28. Maximum daily injection volume fo			29. Estimated average daily injection volume for each							
each fluid type (rate						e in bpd or mcf				
						•				
30. Maximum Sui	rface Injecti	on Pressure:	for Liqu	id _		psig	for Gas		psig.	

- 1. File as an attachment to Form H-1 to provide injection well data for each application for a new injection well permit or to amend an injection well permit.
- 2. Complete the current field name and number (Items 3 and 4) with the current field designation in Commission records.
- 3. Complete the current lease name and number (Items 5 and 6) with the current lease identification in Commission records for each well in the application. Use separate H-1A Forms for each lease.
- 4. Provide the current well number(s) for existing wells in Item 8. Provide the proposed well numbers for wells that have not yet been drilled.
- 5. Check in Item 15 the appropriate box for a new injection well permit or an amendment to an injection well permit. If an amendment, check the appropriate boxes for the reason(s) for the application(s) for amendment. If "other" is checked, provide a brief explanation.
- 6. Provide complete well construction information (Items 16 through 26), including all proposed re-completion (e.g. liner, cement squeeze, tubing, packer). Attach additional sheets if necessary. For Item 19, if the liner was not to the surface, indicate both the top and the bottom depth of the liner as the "Setting Depth."