RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Form H-1 05/2004

APPLICATION T	O INJECT FLUID INT	O A RESERVOIR PI	RODUCTIVE OF C	OIL OR GAS					
1.Operator name L.C.S. Production (as shown on P-5,	ction Compan Organization Report)	2. Operator P-5 No. 479574							
3.Operator Address PO Box 6663 Abilene, TX 79608-6663									
4. County Fisher									
6. Field Name Raven Creek (7. Field No74863200								
8. Lease Name <u>Carter, B. F.</u>	·	9. Lease/Gas ID No. N/A							
10. Check the Appropriate Boxes:	New Project □	Amendment 🛚	. '						
If amendment, Fluid Injection Project No. F-21806									
Reason for Amendment: Add wells 🔯 Add or change types of fluids 🗆 Change pressure 🗆									
Change volume ☐ Change interval ☐ Other (explain)									
11. Name of Formation <u>Strawn Lir</u>	RESERVOIR DA Ind, Palo Pinto I ne	12. Li	ithology Sand	& Limestone					
(e.g., dolomite, limestone, sand, etc.) 13. Type of TrapStratigraphic, Structural Anticline 14. Type of Drive during Primary Production Solution Gas (anticline, fault trap, stratigraphic trap, etc.)									
15. Average Pay Thickness $100'$ 16. Lse/Unit Acreage 298 17. Current Bottom Hole Pressure (psig) $1,500$									
18. Average Horizontal Permeability (mo									
	INJECTIO	ON PROJECT DATA							
No. of Injection Wells in this applicate Type of Injection Project: Waterf Steam	lood Pressure M	faintenance ⊠ Mi	scible Displaceme	ent Natural Gas Storage					
22. If disposal, are fluids from leases oth			•	lo 🕅					
23. Is this application for a Commercial			_	o 🗓					
24. If for commercial disposal, will non-h	·	waste other than pro							
25. Type(s) of Injection Fluid:									
Salt Water 🕱 Brackish Water	☐ Fresh Water ☐	CO_2 \square N_2 \square	Air □ H ₂ S [□ LPG □ NORM □					
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:									
Salt Water will be from the Canyon Sand formation									
CERTIFICATE 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 the data and facts stated therein are true, correct, and complete, to the best of my knowledge. Bennie Burklund 06/14/2022									
For Office Use Only	Register No.		Amount \$						
	0 5	Side for Required Attachment		The same of the sa					

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).
- 2. **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.

A CARLOS A TO COMPANY OF RAILROAD COMMISSION OF TEXAS -- OIL AND GAS DIVISION OF TEXAS DIVISI

Form H-1A

	3.4.1							1			
1. Operator Name (as shown on P-5) 1. C.S. Production Company 2. Operator P-5 No. 479574											
Rayen Creek (Canyon Sand) 74863200											
5. Current Lease Name Contain D C											
7. Lease is 7 miles in a Northeast direction from Eskota, TX (center of nearest town).											
8. Well No. 9. API No. 10. UIC No. 11, Total Depth 12. Date Drilled 13. Base of Usable Quality Water											
14. (a) Legal description of well location, including distance and direction from survey lines: 2 517' ESEL & 853' FSWL of											
14. (a) Legal description of well location, including distance and direction from survey lines: 2,517' FSEL & 853' FSWL of Sec. 2, Blk, 19, T & P RR Co, A-1305 (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 ☐ All Casing Information is Proposed: Other (explain)											
All Casing	Inforn	nation is Pr	oposed	Other (e)	rplain)	i et i Agresi	- Vi 智利 (in 图) - U	Control of the Contro			
Casing	Size	Setting Depth	Hole Size	Casing Weight	Cement	# Sacks of Cement	Top of Cement	Top Determined by			
16. Surface	8-5/8"	140	12-1/4		C	145		Circulation			
17. Intermediate 18. Long string	4-1/2'	5.200'	7-7/8	10.6#		375	3.600	Calculation			
19. Liner	4-1/5"		7-7/8"		C&C Lit			Circulation			
20. Tubing size	21. Tubin			on tubing pack	er depth	23. Injection	interval				
2-3/8"	30	900'		3.900'			4,000'	to <u>5,200'</u>			
24. Cement Sque	eze Operal	ions (List all)		interval (ft)		No. of Sacl	(S	Top of Cement (ft)			
				1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	85 Ne - 1	11.7 3					
is the first and the law body of the country of the enterprise that the country of the decrease of the country of											
25. Multiple Com	pletion?			nole Water Se			answer is "Yes				
Yes No							(elch.:)				
			imum daily injection volume for 29. Estimated ave id type (rate in bpd or mcf/d) fluid type (rate in t			d average daily	verage daily injection volume for each bod or mcf/d)				
Salt Water			2,000 bpd			500 bpd					
			1,5,1				1,				
30. Maximum Surface Injection Pressure: for Liquid 2,000 psig for Gas psig.											
8. Well No.	9. API No		10. UIC No.	11. T	otal Depth	12. Date Drilled	13. Base (ft)	of Usable Quality Water			
14. (a) Legal des	cription of v	vell location, includ	ling distanc	e and direction	from survey lir	ies:					
(b) Latitude a	and Longitud	le of well location,	if known (o	ptional) Lat.			Long.				
15. New Injection	Well 🗆 or	Injection Well Ar	nendment [☐ Reason f	or Amendment:	Pressure 🗆	Volume □ Ir	nterval 🔲 Fluid Type 🔲			
				Other (explain)			VIII (Fig. 1) In the fixe				
Casing	Size	Setting Depth	Hole Siz		Cement	# Sacks of	Top of	Top Determined by			
		John,	1.0.0				1 Opioi	1 op Determined by			
16. Surface 17. Intermediate			1	Weight	Class	Cement	Cement				
				vveignt	Class						
				vveignt	Class						
18. Long string 19. Liner				vveignt	Class						
18. Long string	21. Tubing	g depth	22. Inject	ion tubing pac			Cement	to			
18. Long string 19. Liner						Cement	Cement	to			
18. Long string 19. Liner 20. Tubing size 24. Cement Sque	eze Operat			ion tubing pac		Cement 23. Injection	Cement	to Top of Cement (ft)			
18. Long string 19. Liner 20. Tubing size 24. Cement Sque	eze Operat	ons (List all)	Squeez	ion tubing pac	ker depth	23. Injection No. of Sack	Cement interval	1 27			
18. Long string 19. Liner 20. Tubing size 24. Cement Sque	eze Operati	ons (List all)	Squeez	ion tubing pac	ker depth	23. Injection No. of Sack	Cement interval	" to liem 25			
18. Long string 19. Liner 20. Tubing size 24. Cement Sque 25. Multiple Comp	eze Operati	ons (List all)	Squeez	ion tubing pac e Interval (ft) hole Water Se Yes D No	ker depth	23. Injection No. of Sack NOTE: If the or 26, provide	interval s answer is Yes a Wellbore Sk	" to llem 25 elch			
18. Long string 19. Liner 20. Tubing size 24. Cement Sque 25. Multiple Comp	eze Operati	ons (List all)	Squeez	ion tubing pac e Interval (ft) hole Water Se Yes D No	ker depth	23. Injection No. of Sack NOTE: If the or 26, provide	interval s answer is Yes a Wellbore Sk	" to llem 25 elch			
18. Long string 19. Liner 20. Tubing size 24. Cement Sque 25. Multiple Comp	eze Operati	ons (List all)	Squeez 26. Down 28. Maxin	ion tubing pac e Interval (ft) hole Water Se Yes D No	ker depth eparation?	23. Injection No. of Sack NOTE: If the or 26, provided 29. Estimated	interval s answer is Yes a Wellbore Sk	" to Item 25 etch injection volume for each			
18. Long string 19. Liner 20. Tubing size 24. Cement Sque 25. Multiple Comp	eze Operati	ons (List all)	Squeez 26. Down 28. Maxin	ion tubing pac re Interval (ft) hole Water Se Yes \(\text{No.} \) num daily inje	ker depth eparation?	23. Injection No. of Sack NOTE: If the or 26, provided 29. Estimated	interval s answer is Yes a Wellbore Sk	" to Item 25 etch injection volume for each			
18. Long string 19. Liner 20. Tubing size 24. Cement Sque 25. Multiple Comp	eze Operati	ons (List all)	Squeez 26. Down 28. Maxin	ion tubing pac e Interval (ft) hole Water So Yes No num daily inje	ker depth eparation?	23. Injection No. of Sack NOTE: If the or 26, provided 29. Estimated	interval s answer is Yes a Wellbore Sk	" to Item 25 etch injection volume for each			

- The ss 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.
- Complete the current field name and number (items 3 and 4) with the current field
- 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, 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."

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