OCT 18 2024

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Form H-1

05/2004

١	ION TO INJE	CT FLUID INTO	O A RE	SERVOIR	PRODUC	TIVE OF O	IL OR GAS

10 CS PRODU	CTION COMP	ANV 470574					
1. Operator name L.C.S. PRODUCTION COMPANY 2. Operator P-5 No. 479574 (as shown on P-5, Organization Report)							
3.Operator Address P O BOX 6663	Operator Address P O BOX 6663 ABILENE, TX 79608-6663						
4. County FISHER 5. RRC District No. 7B							
6. Field Name KEELER-WIMBERLY (CANYON SD.) 7. Field No. 48422500							
8. Lease Name NORTH WICKHAM 9. Lease/Gas ID No. 32720							
10. Check the Appropriate Boxes: New Project □ Amendment ☑ If amendment, Fluid Injection Project No. F- 22634							
	Reason for Amendment: Add wells ⊠ Add or change types of fluids □ Change pressure □						
Change volume ☐ Change interval ☐ Other (explain)							
377	RESERVOIR DA	ATA FOR A NEW PROJECT					
11. Name of Formation CANYON		12. Lithology SAND					
13. Type of Trap <u>STRATIGRAPH</u> (anticline, fault trap,	IIC stratigraphic trap, etc.)	(e.g., dolomite, limestone, sand, etc.) 14. Type of Drive during Primary Production SOLUTION GAS					
1		ge 304.4 17. Current Bottom Hole Pressure (psig) 320					
		S 19. Average Porosity (%) <u>15%-17%</u>					
INJECTION PROJECT DATA							
20. No. of Injection Wells in this application I							
· · · · · · · · · · · · · · · · · · ·							
22. If disposal, are fluids from leases other than the lease-identified in Item 9? Yes, □ No 🕱							
23. Is this application for a Commercial Disposal Well?							
24. If for commercial disposal, will non-hazardous oil and gas waste other than produced water be disposed? Yes \(\Bar{\sqrt} \) No \(\Bar{\sqrt} \)							
25. Type(s) of Injection Fluid:							
Salt Water ☑ Brackish Water □ Fresh Water □ CO ₂ □ N ₂ □ 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 aguifer and depths, or by name of surface water source:							
ing the second of the second o							
		Bonnie Burklund 10/04/2024					
I declare under penalties prescribed in Sec. 91.143, Texas Natural Signature Date							
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, Name of Person (type or print)							
that the data and facts stated therein are true, correct, and omplete, to the best of my knowledge.							
Phone <u>512-799-4057</u> Fax							
For Office Use Only	Register No.	Amount \$					

INSTRUCTIONS FOR FORM H-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.

RAILROAD COMMISSION OF TEXAS -- OIL AND GAS DIVISION

INJECTION WELL DATA (attach to Form H-1)

Form H-1A DBC 0504

		1144	JEO I IOI		LL DAI	A Jaccaon L	<u>0 1 01/11 11-1/</u>			
1. Operator Nam		n on P-5) COMPANY		•			, .	2. Opera 479	ator P-5 No.	
3. Field Name							1,12	4. Field	d No.	
KEELER-WIN	MBERLY	(CANYON SD	.)				<u></u>		33322	
5. Current Lease NORTH WICI								5, Leas 327	e/Gas ID No. /20	
		ME				COVOTA				
7. Lease is 7 8. Well No.	9. API No	esin a NE	10. UIC No	airec	tion from 1	ESKOTA otal Depth	12. Date Drilled	13. Base	nter of nearest town). of Usable Quality Water	
. 16	42-15	1-33348	•		49	199			/ USDW 675'	
14. (a) Legal des	scription of	well location, inclu	ding distant	ce an	d direction	from survey l	ines:			
330 FNW	11 669 & and Longitu	NE OF GEORG	if known (IH 3	SUKVET	7#221 ABS 32.608951	7 TRAC1 388	Long100	.1653291	
				2:			* * * .		· · · · · · · · · · · · · · · · · · ·	
15. New Injection	n WeliLALio	or Injection Well A	mendment	ᄓ	Reason to	or Amendmen	t: Pressure L	Volume 📖	Interval 🗌 Fluid Type 🗌	
All Informa	ation Be	low is Propo	sed.		Other (exp	plain)		<u> </u>		
Casing	Size	Setting Depth		Hole Size Casing Cemer			# Sacks of	Top Determined by		
46 6: 45-5	0.7/0		10:4/4		eight	Class	Cement	Cement	CALCULATED	
16. Surface 17. Intermediate	8 5/8	120	12 1/4	24		C	110	0	CALCULATED	
18. Long string	5 1/2	4999	7 7/8	10.	5	C	1000	0	CALCULATED	
19. Liner 20. Tubing size	21. Tubin	a donth	22 Inicoti	22. Injection tubing packer depth				23. Injection interval		
20. Tubing size 2 7/8	4100	ið ásbíri	4100		billy pack	ai uchiii	25. Injection	4100	to 4500	
24. Cement Sque		tions (List all)	Squeez		erval (ft)		No. of Saci	(S	Top of Cement (ft)	
	· · · · · · · · · · · · · · · · · · ·			-					1	
This well will be	e comple	ted in such a n	hanner th	at th	ere will l	oe no more	than 100' rat	hole below	the permitted injection permitted injection inter	
	·	as an open no				 				
25. Multiple Com			26. DOWN	26. Downhole Water Separation?				NOTE: If the answer is "Yes" to Item 25 or 26, provide a Wellbore Sketch		
Yes 🗌 N	io X		Yes □ No 🛚							
27; F	luid Type		28. Maxin	num (daily inject	ion volume fo	r 29. Estimate	d average dail	y injection volume for each	
	each fluid type (rate in bpd or mcf/d)			fluid type (rat	fluid type (rate in bpd or mcf/d)					
PRODUCED S	SALT WA	TER	600 BP	D			300 BPD			
<u> </u>							· · ·			
30. Maximum Su			for Liqu		,	psi otal Depth	g for Gas 12. Date Drilled		psig. of Usable Quality Water	
8. Well No.	9. API No					•		(ft)	of Osable Quality Water	
14. (a) Legal des	scription of	well location, inclu	ding distan	ce an	d direction	from survey	lines:			
/65 L a44d a		.df	: Elemente À	4:	nai) Lat.			Long.		
		ide of well location								
15. New Injection	n Weil 🗌 d	or Injection Well A	mendment		Reason fo	or Amendmen	t: Pressure 🗀	Volume L	Interval Fluid Type	
					Other (ex	plain)				
Casing	Size	Setting Depth	Hole Size	Ca		Cement	# Sacks of	Top of	Top Determined by	
			1		eight	Class	Cement	Cement	-	
16. Surface 17. Intermediate	ļ	 		-		 	 	 		
18. Long string	 	†	+							
. 19. Liner		I			61-1	 a	00 1=1=1	inter in		
20. Tubing size	20. Tubing size 21. Tubing depth 22. Inject				Injection tubing packer depth			23. Injection interval		
24 Comost Sau	Squeeze interval (ft)			No. of Sacks		Top of Cement (ft)				
24. Cement Squeeze Operations (List all)			Squeeze interval (it)			145. 01 040		Top or comain (it)		
										
25. Multiple Completion? Yes □ No □				26. Downhole Water Separation?				NOTE: If the answer is "Yes" to Iten		
			26. Dôw					e answer is "Ye e a Wellbore S		
			-	Y	es 🗌 No		01 20, provid	. a FFENDUID L	JACOBI	
27. F	luid Type		28 May	imur	daily inje	ction volume i	or 29 Estimate	d average dai	ly injection volume for each	
21. Fluid Type			28. Maximum daily injection volume for each fluid type (rate in bpd or mcf/d)			29. Estimated average daily injection volume for each fluid type (rate in bpd or mcf/d)				
							<u> </u>			
							<u> </u>	·		
30. Maximum Su	rface Inject	tion Pressure:	for Liqu	Jid		ps	g 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.
- 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."