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

1.Operator name FDL Operating L	LC Organization Report)	2. Operator P-5 No. 263924							
(as shown on P-5, Organization Report) 3.Operator Address 5221 N O'Conner Blvd, Ste 1100, Irving, TX 75039									
3. Operator Address OZZ 114 O Colliner Diva, Ote 1100, If Ving, 177 70000									
4. County Fisher		5. RRC District No. 7B							
6. Field Name Judy Gail East (Ca	nyon)	7. Field No. 47543500							
8. Lease Name Y6	·	9. Lease/Gas ID No. <u>17470</u>							
10. Check the Appropriate Boxes:	New Project ☑	Amendment □							
If amendment, Fluid Injection	Project No. F	· .							
Reason for Amendment: A	dd wells	Add or change type	es of fluids Change pressure						
Change volume									
			(on dolomite limestone sand etc.)						
13. Type of Trap Stratigraphic Tra (anticline, fault trap,	P , stratigraphic trap, etc.)	14. Type of Drive	during Primary Production Solution Gas						
15. Average Pay Thickness 30' 16. Lse/Unit Acreage 528.75 17. Current Bottom Hole Pressure (psig) 450 est									
18. Average Horizontal Permeability (mds) 20 19. Average Porosity (%) 16%									
INJECTION PROJECT DATA									
20. No. of Injection Wells in this application1									
21. Type of Injection Project: Waterflood ☑ Pressure Maintenance ☐ Miscible Displacement ☐ Natural Gas Storage ☐									
Steam Thermal Recovery Disposal Other									
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 ? Yes □ No 🗵									
24. If for commercial disposal, will non-h	azardous oil and gas	waste other than pro	oduced water be disposed? Yes □ No 🗵						
25. Type(s) of Injection Fluid:									
Salt Water 🗵 Brackish Water [☐ Fresh Water ☐	$CO_2 \square N_2 \square$	Air ☐ H2S ☐ 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:									
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. CERTIFICATE 05/28/2023 RD									
For Office Use Only	Register No.		Amount \$						

See Reverse Side for Required Attachments

PAT THOMSON

OUNTY CLERK ISHER COUNTY, TEXAS

BY DEPUTY

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) Attach an affidavit of publication 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)												
1. Operator Nam FDL Ope	1. Operator Name (as shown on P-5) PDL Operating LLC 2. Operator P-5 No. 263924											
3. Field Name Judy Gail East (C		4. Field No. 47543500										
5. Current Lease Y6	Name		6. Lease/Gas ID No. 17470									
7. Lease is 4												
8. Well No. 1319	9. API No 151-3155	o. 7		10. UIC No.		otal Depth	12. Date Drilled 13. Base of Usable Quality Water 0/2/1982 (ff)					
W.E. Kaye Survey #4, Lot 19												
(b) Latitude and Longitude of well location, if known (optional) Lat. 32.949267 Long100.175291												
15. New Injection Well 🗵 or Injection Well Amendment 🗆 Reason for Amendment: Pressure 🗀 Volume 🗀 Interval 🗀 Fluid Type 🗆												
Other (explain)												
Casing	Size	Setting Depth	Hole Size	Casi Weig		Cement Class	# Sacks of Cement	Top of Cement	Top Determined by			
16. Surface 17. Intermediate	8-5/8	155	11	20		Н	125	Surf	Circ			
18. Long string	4-1/2	4600	7-7/8	9.5		HLC / IP	475 / 175	4774	Cal			
19. Liner 20. Tubing size	21. Tubin	g depth	22. Inject	22. Injection tubing packer depth				23. Injection interval				
2-3/8	3 4429							23. Injection interval 4445 to 4472				
24. Cement Sque	eeze Opera	tions (List all)	Squeez	e Inter	val (ft)		No. of Sack	KS .	Top of Cement (ft)			
25. Multiple Completion?			26. Down	26. Downhole Water Separation?			NOTE: If the answer is "Yes" to Item 25					
Yes □ No 🖾			Yes □ No 🖾			or 26, provide a Wellbore Sketch						
27. Fluid Type			28. Maximum daily injection volume for			29. Estimated average daily injection volume for each						
Saltwater			each fluid 1000 bpd	each fluid type (rate in bpd or mcf/d) 1000 bpd			fluid type (rate in bpd or mcf/d) 200 bpd					
			<u> </u>	- 00	00							
30. Maximum Su			for Liqu		00 T 44 =	psig		140.0	psig.			
	Well No. 9. API No. 10. UIC No. 11. Total Depth						12. Date Drilled 13. Base of Usable Quality Water (ft)					
14. (a) Legal des	cription of v	vell location, inclu	ding distand	e and	direction	ı from survey lir	nes:					
(b) Latitude a	ınd Longitu	de of well location	if known (d	ptiona	l) Lat.			Long.				
15. New Injection	mendment	endment Reason for Amendment:			Pressure ☐ Volume ☐ Interval ☐ Fluid Type ☐							
				0	ther (exp	plain)			·			
Casing	Size	Setting Depth	Hole Siz	Casir Weig		Cement Class	# Sacks of Cement	Top of Cement	Top Determined by			
16. Surface 17. Intermediate												
18. Long string			 									
19. Liner	Od Tuble		20 Inia	4: AI-			00 1-1 -11					
20. Tubing size	21. Tubing	3 aebiu	ZZ. Injec	22. Injection tubing packer depth			23. Injection	interval	to			
24. Cement Squeeze Operations (List all)			Squeeze Interval (ft)			No. of Sacks		Top of Cement (ft)				
05.11.11.1.0						NOTE: If the angular is 15% - 7% - 7% - 7%						
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							
	28. Maximum daily injection volume for			29. Estimated average daily injection volume for each								
27. Fluid Type			each fluid type (rate in bpd or mcf/d)					fluid type (rate in bpd or mcf/d)				
30. Maximum Sur	face Injection	on Pressure:	for Liqui	ď		nsia	for Gas		nsia.			

FORM H-1A INSTRUCTIONS

05/2004

- 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."