

**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 Snap Exploration Company, LLC 2. Operator P-5 No. 797122  
(as shown on P-5, Organization Report)

3. Operator Address 1300 Post Oak Blvd., Ste. 2400 --- Houston, TX 77056

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4. County Val Verde 5. RRC District No. 01

6. Field Name Parmer (Paluxy) 7. Field No. 69319500

8. Lease Name Jenkins 9. Lease/Gas ID No. 18804

10. Check the Appropriate Boxes:      New Project       Amendment

If amendment, Fluid Injection Project No. F- \_\_\_\_\_

Reason for Amendment:    Add wells     Add or change types of fluids     Change pressure

                                         Change volume     Change interval     Other (explain) \_\_\_\_\_

**RESERVOIR DATA FOR A NEW PROJECT**

11. Name of Formation Paluxy 12. Lithology sandstone  
(e.g., dolomite, limestone, sand, etc.)

13. Type of Trap stratigraphic 14. Type of Drive during Primary Production gravity  
(anticline, fault trap, stratigraphic trap, etc.)

15. Average Pay Thickness 10 ft. 16. Lse/Unit Acreage 250.83 17. Current Bottom Hole Pressure (psig) < 50 (est.)

18. Average Horizontal Permeability (mds) 200 to 1,200 md 19. Average Porosity (%) 18% to 30%

**INJECTION PROJECT DATA**

20. No. of Injection Wells in this application 1

21. Type of Injection Project:    Waterflood     Pressure Maintenance     Miscible Displacement     Natural Gas Storage

                                         Steam     Thermal Recovery     Disposal     Other in-situ combustion  
                                         to be followed by  
22. If disposal, are fluids from leases other than the lease identified in Item 9?    Yes     No     waterflood or  
                                         steam injection

23. Is this application for a Commercial Disposal Well ?    Yes     No

24. If for commercial disposal, will non-hazardous oil and gas waste other than produced water be disposed?    Yes     No

25. Type(s) of Injection Fluid:

Salt Water     Brackish Water     Fresh Water     CO<sub>2</sub>     N<sub>2</sub>     Air     H<sub>2</sub>S     LPG     NORM

Natural Gas     Polymer     Other (explain) fresh water injected as steam or liquid

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:

(1) fresh water produced from the Edwards aquifer (200' average depth) injected as steam or liquid and (2) fresh water produced from oil wells on the Jenkins Lease from the Paluxy Formation (400' average depth) injected as steam or liquid

<p align="center"><b>CERTIFICATE</b></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 the data and facts stated therein are true, correct, and complete, to the best of my knowledge.</p>	<p align="right"><u>Patrick C Forbis</u>      <u>4-18-18</u></p> <p>Signature _____ Date _____</p> <p>Name of Person (type or print) _____</p>
	<p>Phone <u>(512) 826-3732</u>      Fax <u>pforbis@ix.netcom.com</u></p>

<b>For Office Use Only</b>	<b>Register No.</b>	<b>Amount \$</b>
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## 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) **Plat of Leases.** 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](http://www.rrc.state.tx.us)) or the District Offices. Attach a newspaper clipping of the published notice.
  - (c) **Protests and Hearings.** 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)

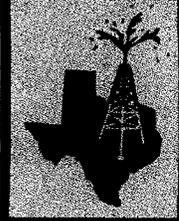
1. Operator Name (as shown on P-5) Snap Exploration Company, LLC						2. Operator P-5 No. 797122		
3. Field Name Parmer (Paluxy)						4. Field No. 69319500		
5. Current Lease Name Jenkins						6. Lease/Gas ID No. 18804		
7. Lease is 23 miles in a south-southwest direction from Sonora (center of nearest town).								
8. Well No. J 1	9. API No. 465-30860	10. UIC No.	11. Total Depth 600'	12. Date Drilled 1-7-2016	13. Base of Usable Quality Water (ft) 900'			
14. (a) Legal description of well location, including distance and direction from survey lines: 1,205' FSL & 1,463' FWL; Section 26 CCSD&RGNG RR Co/J.D. Kinsey Survey, A-2213 (b) Latitude and Longitude of well location, if known (optional) Lat. 30.283561 (NAD83) Long. -100.856759 (NAD83)								
15. New Injection Well <input checked="" type="checkbox"/> or Injection Well Amendment <input type="checkbox"/>				Reason for Amendment: Pressure <input type="checkbox"/> Volume <input type="checkbox"/> Interval <input type="checkbox"/> Fluid Type <input type="checkbox"/>				
Other (explain) _____								
Casing	Size	Setting Depth	Hole Size	Casing Weight	Cement Class	# Sacks of Cement	Top of Cement	Top Determined by
16. Surface	5-1/2"	591'	7-7/8"	15.5#	C	160	surface	topped out
17. Intermediate								
18. Long string								
19. Liner								
20. Tubing size 2-7/8"	21. Tubing depth 400' (proposed)		22. Injection tubing packer depth 400' (proposed)		23. Injection interval 445' to 596'			
24. Cement Squeeze Operations (List all)			Squeeze Interval (ft)		No. of Sacks		Top of Cement (ft)	
25. Multiple Completion? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>			26. Downhole Water Separation? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		NOTE: If the answer is "Yes" to Item 25 or 26, provide a Wellbore Sketch			
27. Fluid Type Air			28. Maximum daily injection volume for each fluid type (rate in bpd or mcf/d) 1,000		29. Estimated average daily injection volume for each fluid type (rate in bpd or mcf/d) 1,000			
fresh water (aquifer)/produced fresh water (both injected as steam or liquid)			150		75			
30. Maximum Surface Injection Pressure: for Liquid 222 psig for Gas 333 psig.								
8. Well No.	9. API No.	10. UIC No.	11. Total Depth	12. Date Drilled	13. Base of Usable Quality Water (ft)			
14. (a) Legal description of well location, including distance and direction from survey lines: (b) Latitude and Longitude of well location, if known (optional) Lat. _____ Long. _____								
15. New Injection Well <input type="checkbox"/> or Injection Well Amendment <input type="checkbox"/>				Reason for Amendment: Pressure <input type="checkbox"/> Volume <input type="checkbox"/> Interval <input type="checkbox"/> Fluid Type <input type="checkbox"/>				
Other (explain) _____								
Casing	Size	Setting Depth	Hole Size	Casing Weight	Cement Class	# Sacks of Cement	Top of Cement	Top Determined by
16. Surface								
17. Intermediate								
18. Long string								
19. Liner								
20. Tubing size	21. Tubing depth		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)	
25. Multiple Completion? Yes <input type="checkbox"/> No <input type="checkbox"/>			26. Downhole Water Separation? Yes <input type="checkbox"/> No <input type="checkbox"/>		NOTE: If the answer is "Yes" to Item 25 or 26, provide a Wellbore Sketch			
27. 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)			
30. Maximum Surface Injection Pressure: for Liquid _____ psig for Gas _____ psig.								

## 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."

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VAL VERDE COUNTY CLERK



# Texas Drilling Observer

- the oil & gas regulatory report -

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Patrick C. Forbis -- Editor & Publisher  
- Oil & Gas Industry Consultant on Regulatory Affairs -

April 18, 2018

Val Verde County Clerks Office  
400 Pecan Street, 1st Floor  
Del Rio, TX 78840

Re: Snap Exploration, Jenkins Lease, Well No. J 1

Dear Sir or Madam,

My name is Patrick Forbis and I am an oil and gas regulatory consultant who is doing work on behalf of Snap Exploration, an operator of oil wells in Texas. I am sending you this letter because Snap is filing an application with the Railroad Commission of Texas to use its Jenkins #J-1 well in Val Verde County, Texas to inject air, fresh water and fresh water steam into the Paluxy Oil Formation in the Parmer (Paluxy) Field for the purposes of enhancing production from the surrounding oil wells on its Jenkins Lease. As County Clerk, under Railroad Commission rules, we are required to send your office notice of this application and give you an opportunity to protest the application at a hearing called by the Texas Railroad Commission.

I have enclosed a copy of Railroad Commission Forms H-1 and H-1A giving the details of the well's construction and Snap's injection well application. If you have any questions about this application please contact me on my cell at 512-826-3732. If you wish to protest this application, it must be sent in writing to the Environmental Services Division of the Railroad Commission. I look forward to speaking to you if you have any questions or concerns about this application.

Yours very truly,

Patrick C. Forbis  
Publisher, Texas Drilling Observer  
Consultant for Snap Exploration

BY \_\_\_\_\_ DEPUTY  
GENEROSA GRACIA RAMON  
VAL VERDE COUNTY CLERK

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