

**RAILROAD COMMISSION OF TEXAS  
OIL AND GAS DIVISION  
COMMERCIAL**

**APPLICATION TO INJECT FLUID INTO A RESERVOIR PRODUCTIVE OF OIL OR GAS**

1. Operator name Moriah Operating, LLC 2. Operator P-5 No. 586557  
(as shown on P-5, Organization Report)

3. Operator Address 303 W. Wall Street Suite 2300 Midland, TX 79701

4. County Fisher 5. RRC District No. 7B

6. Field Name Fisher County 7. Field No. 31014001

8. Lease Name HOGO 9. Lease/Gas ID No. \_\_\_\_\_

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 Wichita Albany 12. Lithology Dolomite  
(e.g., dolomite, limestone, sand, etc.)

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

15. Average Pay Thickness 600 16. Lse/Unit Acreage 10 17. Current Bottom Hole Pressure (psig) 1485#

18. Average Horizontal Permeability (mds) 30 mds 19. Average Porosity (%) 15%

**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 \_\_\_\_\_

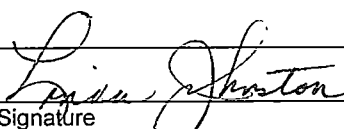
22. If disposal, are fluids from leases other than the lease identified in Item 9? Yes  No

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

24. If for commercial disposal, will non-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) \_\_\_\_\_

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:

<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>	 Signature _____	9/21/2021 Date _____
	Name of Person (type or print) Linda Johnston	
	Phone <u>830-964-5963</u>	Fax <u>stateoilreports@satx.rr.com</u>

<b>For Office Use Only</b>	<b>Register No.</b>	<b>Amount \$</b>
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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) <b>Moriah Operating, LLC</b>					2. Operator P-5 No. <b>586557</b>				
3. Field Name <b>Fisher County</b>					4. Field No. <b>31014001</b>				
5. Current Lease Name <b>HOGO</b>					6. Lease/Gas ID No.				
7. Lease is <b>10.5</b> miles in a <b>Southwest</b> direction from <b>Rotan</b> (center of nearest town).									
8. Well No. 1WD	9. API No. 42-151-33207	10. UIC No.	11. Total Depth 3600	12. Date Drilled Not Drilled	13. Base of Usable Quality Water (ft) <b>150'</b>				
14. (a) Legal description of well location, including distance and direction from survey lines: 2300.9' FSL & 2207.1' FWL Sec 7 Blk 3 H. & T.C. RR. Co. A-194 (b) Latitude and Longitude of well location, if known (optional) Lat. <b>32.768065</b> Long. <b>-100.615934 (NAD 83)</b>									
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 PROPOSED CASING RECORD	Size	Setting Depth	Hole Size	Casing Weight	Cement Class	# Sacks of Cement	Top of Cement	Top Determined by	
16. Surface	9 5/8	400	12 1/4	36#	C	250	0	Circulated	
17. Intermediate									
18. Long string	7	3600	8 3/4	26#	C	550	0	Circulated	
19. Liner									
20. Tubing size <b>4 1/2</b>	21. Tubing depth <b>2700</b>		22. Injection tubing packer depth <b>2700</b>			23. Injection interval <b>2800</b> to <b>3400</b>			
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 <b>Produced Salt Water</b>			28. Maximum daily injection volume for each fluid type (rate in bpd or mcf/d) <b>24500</b>			29. Estimated average daily injection volume for each fluid type (rate in bpd or mcf/d) <b>15000</b>			
30. Maximum Surface Injection Pressure: for Liquid <b>1400</b> psig for Gas _____ 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.									

**FILED FOR RECORD**  
**AT 9 O'CLOCK**  
**SEP 28 2021**  
**PAT THOMSON**  
**COUNTY CLERK FISHER COUNTY, TEXAS**  
**BY \_\_\_\_\_ DEPUTY**