

RAILROAD COMMISSION OF TEXAS
OIL AND GAS DIVISION

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 Emily SWD 9. Lease/Gas ID No. 32435

10. Check the Appropriate Boxes: New Project Amendment
If amendment, Fluid Injection Project No. F- 21539 (Commercial)
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/Coleman Junction 12. Lithology Dolomite and Limestone
(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 400 16. Lse/Unit Acreage 10 17. Current Bottom Hole Pressure (psig) 1550#

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 CO₂ N₂ 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:

<p>CERTIFICATE</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 under my direct supervision and direction, and that the facts stated therein are true, correct, and complete, to the best of my knowledge.</p> <p>RECEIVED</p> <p>MAR - 4 2021</p>	<p><u>Linda Johnston</u> 2/25/2021 Signature Date</p> <p>Name of Person (type or print) <u>Linda Johnston</u></p> <p>Phone <u>830-964-5963</u> Fax <u>stateoilreports@satx.rr.com</u></p>
	<p>For Office Use Only Register No. Amount \$</p>

RAILROAD COMMISSION OF TEXAS -- OIL AND GAS DIVISION

05/2004

Form H-1A

INJECTION WELL DATA (attach to Form H-1)

1. Operator Name (as shown on P-5) Moriah Operating, LLC					2. Operator P-5 No. 586557				
3. Field Name Fisher County					4. Field No. 31014001				
5. Current Lease Name Emily SWD					6. Lease/Gas ID No. 32435				
7. Lease is <u>12</u> miles in a <u>Southwest</u> direction from <u>Rotan</u> (center of nearest town).									
8. Well No. 1D	9. API No. 42-151-33124	10. UIC No. 118823	11. Total Depth 7450	12. Date Drilled 10/03/2019	13. Base of Usable Quality Water (ft) 250				
14. (a) Legal description of well location, including distance and direction from survey lines: 535 FSL & 1576 FEL Sec 68 Blk 2 H. & T.C. RR. Co. A-1326									
(b) Latitude and Longitude of well location, if known (optional) Lat. <u>32.46.15.449</u> Long. <u>-100.38.50.329</u>									
15. New Injection Well <input type="checkbox"/> or Injection Well Amendment <input checked="" type="checkbox"/>					Reason for Amendment: Pressure <input type="checkbox"/> Volume <input type="checkbox"/> Interval <input checked="" 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	13 3/8	1720	17 1/2	54.5#	C	1170	0	Circulated	
17. Intermediate									
18. Long string	7	7005	11	26#	C/H	1900	1003	CBL	
19. Liner									
20. Tubing size 4 1/2	21. Tubing depth 2800		22. Injection tubing packer depth 2800			23. Injection interval 2850 to 3800			
24. Cement Squeeze Operations (List all)			Squeeze Interval (ft)		No. of Sacks		Top of Cement (ft)		
Proposed CIBP @ 6980'					20'		6960		
Proposed CIBP @ 3900'					20'		3880'		
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 Produced Salt Water			28. Maximum daily injection volume for each fluid type (rate in bpd or mcf/d) 25000			29. Estimated average daily injection volume for each fluid type (rate in bpd or mcf/d) 15000			
30. Maximum Surface Injection Pressure: for Liquid <u>1425</u> 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"/>									
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.									

