RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Form H-1

| AUG 2.5 2022 APPLICATION TO INJECT FLUID I | NTO A RESERVOIR P | RODUCTIVE OF OIL OR GAS | | | | |
|--|-------------------------|---|--|--|--|--|
| 1.Operator name L.C.S. Production Company (as shown on P 5, Organization Report) | | 2. Operator P-5 No479574 | | | | |
| 3.Operator Address PO Box 6663 Abilene, T | | | | | | |
| 4. County Fisher | | 5. RRC District No7B | | | | |
| 6. Field Name <u>Raven Creek (Canyon Sand)</u> | | _7. Field No. <u>74863200</u> | | | | |
| 8. Lease Name Welch | · | 9. Lease/Gas ID No. N/A | | | | |
| 10. Check the Appropriate Boxes: New Project ☑ | Amendment \square | | | | | |
| If amendment, Fluid Injection Project No. F | | | | | | |
| Reason for Amendment: Add wells \qed | Add or change type | s of fluids \square Change pressure \square | | | | |
| | | Other (explain) | | | | |
| RESERVOIR Canyon Sand, Palo Pin | DATA FOR A NEW PI | ROJECT | | | | |
| 11. Name of Formation <u>Strawn Lime</u> | 12. L | ithology Sand & Limestone (e.g., dolomite, limestone, sand, etc.) | | | | |
| 13. Type of Trap <u>Structure Stratigraphic</u> (anticline, fault trap, stratigraphic trap, et | c.) 14. Type of Drive | during Primary Production Solution Gas | | | | |
| 15. Average Pay Thickness 65' 16. Lse/Unit Acr | eage <u>493.33</u> 1 | 7. Current Bottom Hole Pressure (psig) <u>800</u> | | | | |
| 18. Average Horizontal Permeability (mds) 1 md | 19. Average Poro | sity (%) 12% | | | | |
| INJEC | TION PROJECT DATA | <u>, , , , , , , , , , , , , , , , , , , </u> | | | | |
| 20. No. of Injection Wells in this application | | 411 | | | | |
| 21. Type of Injection Project: Waterflood \Box Pressure Maintenance \boxtimes Miscible Displacement \Box Natural Gas Storage \Box | | | | | | |
| Steam ☐ Thermal | Recovery Di | sposal | | | | |
| 22. If disposal, are fluids from leases other than the lease i | dentified 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 g | as waste other than pro | oduced water be disposed? Yes 🗆 No 🗀 | | | | |
| 25. Type(s) of Injection Fluid: | | | | | | |
| | _ | Air □ H ₂ S □ LPG □ NORM □ | | | | |
| Natural Gas ☐ Polymer ☐ Other (explain | n) | <u> </u> | | | | |
| 26. If water other than produced salt water will be inject aquifer and depths, or by name of surface water source: | ed, identify the source | of each type of injection water by formation, or by | | | | |
| Water will be coming from the Canyo | n Sand formation | 1. | | | | |
| | Bana | Bus place of 08/15/2022 | | | | |
| I declare under penalties prescribed in Sec. 91.143, Texas Natural Bonnis Burklund 08/15/2022 Signature Date | | | | | | |
| 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. Phone 512-799-4057 Fax | | | | | | |
| For Office Use Only Register No. | <u> </u> | Amount \$ | | | | |

RAILROAD COMMISSION OF TEXAS -- OIL AND GAS DIVISION

्रांची सहित्र । स्टाहिन्स सन्

Form H-1A

| INJECTION WELL DATA (attach to Form H-1) | | | | | | | | |
|---|---------------------------------------|-----------------------|--|---------------------------|-------------------------------------|--|------------------|----------------------|
| 1. Operator Name (as shown on P-5) L.C.S. Production Company 479574 | | | | | | | | |
| 1. Operator Name (as shown on P-5) 2. Operator P-5 No. 479574 3. Field Name Raven Creek (Canyon Sand) 4. Field No. 74863200 5. Current Lease Name Welch Welch N/A | | | | | | | | |
| 5. Current Lease | Name | Welch | | | Tart to at the p | | 6. Lease/ | Gas ID No. N/A |
| 7. Lease is7 | mile | sin a Northe | ast | direction from | Eskota, TX | ζ * | (cente | er of nearest town). |
| 8. Well No. 9. API No. 10. UIC No. 11. Total Depth 12. Date Drilled 13. Base of Usable Quality Water | | | | | | 11SDW 6001 | | |
| 14. (a) Legal description of well location, including distance and direction from survey lines: 804' FNEL & 2,615' FNEL of Sec. 6, Blk 19, T&P RR Co.,/ Walling, J. R., Abstract 1778 (b) Latitude and Longitude of well location, if known (optional) Lat. 32.601728 Long100.182360 (Nad 27) | | | | | | | | |
| (b) Latitude and Longitude of well location, if known (optional) Lat32.001728 15. New Injection Well ☑ or Injection Well Amendment ☐ Reason for Amendment: Pressure | | | | | | • | | |
| | | ow is Propose | | Other (ex | plain) | | | |
| Casing | Size | | | Casing Weight | Cement Class | # Sacks of Cement | Top of Cement | Top Determined by |
| 16. Surface 17. Intermediate | 8-5/8" | 133' | 12-1/4" | 24# | C | 100 | Surface | Circulation |
| 18. Long string | 4-1/2" | 5,750' | 7-7/8" | 10.5# | C&C Lite | 735 | Surface | Calculation |
| 19. Liner 20. Tubing size | 21. Tubin | | | on tubing pack | er depth | 23. Injection | interval | to 5,200' |
| 2-3/8" 24. Cement Sque | 3,90 eze Operat | | | 3,900' e Interval (ft) | | No. of Sack | | Top of Cement (ft) |
| · · · · · · · · · · · · · · · · · · · | | | ····· | | e will be no | | · | ole below the |
| bottom permi | tted inie | ction interval | * C * | | 1 : . | d and the second | F. 1955 | . A. A. |
| 25. Multiple Comp Yes □ N | | | 26. Downl | nole Water Sep | 7 71 | NOTE: If the answer is "Yes" to Item 25 or 26, provide a Wellbore Sketch | | |
| | | ľ | | | | | Total Control | |
| 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) | | |
| Salt Water | . * | | 5,000 bpd | | | 3,000 bpd | | |
| 30. Maximum Sur | face Injecti | | | | | for Gas | | psig. |
| | | | | 13. Base ((ft) | of Usable Quality Water | | | |
| 14. (a) Legal des | cription of v | vell location, includ | ling distanc | e and direction | from survey lin | es: | , | |
| | | de of well location, | | | | | Long. | |
| 15. New Injection Well \square or Injection Well Amendment \square Reason for Amendment: Pressure \square Volume \square Interval \square Fluid Type \square | | | | | | | | |
| Casing | Size | Setting Depth | Hole Siz | Other (ex | Cement | # Sacks of | Top of | Top Determined by |
| 16. Surface | | | | Weight | Class | Cement | Cement | |
| 17. Intermediate | | | | · | | | | |
| 18. Long string 19. Liner | | | | | | | | |
| 20. Tubing size | 21. Tubin | g depth | 22. Injec | tion tubing pac | ker depth | 23. Injection | i i | |
| 24. Cement Squeeze Operations (List all) | | Squeeze Interval (ft) | | | No. of Sacks Top of Cement (ft) | | | |
| man dan mijirigadi memili | | | | | | era e e e e e e e e e e e e e e e e e e | | |
| (MAC ALE EN CHANTS ARE INTO A | | | The state of the s | | | A STATE OF THE STA | | |
| 25. Multiple Completion? 26. Downhole Water Sepa | | | 1 V | | answer is "Yes | | | |
| Yes □ No □ Yes □ No □ | | | or 26, provide a Wellbore Sketch | | | | | |
| 27. Fluid Type 28. Maximum daily injection each fluid type (rate in bpd of | | | | | d average daily e in bpd or mcf/ | injection volume for each d) | | |
| | · · · · · · · · · · · · · · · · · · · | | | | | | | |
| 30. Maximum Sur | face Injecti | on Pressure: | for Liqu | id | psia | for Gas | | psia. |

AUG 25 2022

RAILROAD COMMISSION OF TEXAS OIL AND GAS DIVISION

Form H-1

05/200/

| APPLICATION TO | INJECT FLUID INTO | O A RESERVOIR P | RODUCTIVE OF OIL OR | GAS 03/2004 | | | |
|---|---------------------------------|---------------------------------------|---|--------------------------|--|--|--|
| 1.Operator name <u>L.C.S. Producti</u> (as shown on F.5, o | on Company Organization Report) | , | 2. Operator P-5 No | 479574 | | | |
| 3.Operator Address P O Box 666 | 3 Abilene, TX | 79608-6663 | | | | | |
| 4. County Fisher | | · · · · · · · · · · · · · · · · · · · | 5. RRC District No. | 7B | | | |
| 6. Field Name Raven Creek (Ca | nyon Sand) | | _7. Field No. <u>748632</u> | 00 | | | |
| 8. Lease Name Welch -A- | | · | 9. Lease/Gas ID No. | N/A | | | |
| 10. Check the Appropriate Boxes: | New Project ⊠ | Amendment \square | | | | | |
| If amendment, Fluid Injection | Project No. F | - | | | | | |
| Reason for Amendment: Ad | dd wells | Add or change type | s of fluids □ Change | pressure | | | |
| Ch | ange volume 🔲 (| Change interval | Other (explain) | · . | | | |
| Canyon Sa | RESERVOIR DA and, Palo Pinto | TA FOR A NEW PR | ROJECT | | | | |
| 44 N CE 11 CA | * | 40.1 | ithology Sand & Lin | nestone | | | |
| 13. Type of Trap Structure Stratig (anticline, fault trap, | stratigraphic trap, etc.) | _ 14. Type of Drive | during Primary Production | Solution Gas | | | |
| 15. Average Pay Thickness 65' | 16. Lse/Unit Acreag | je <u>20</u> 1 | 7. Current Bottom Hole Pr | essure (psig) <u>800</u> | | | |
| 18. Average Horizontal Permeability (md | s) <u>1 md</u> | 19. Average Poro | sity (%) <u>12%</u> | | | | |
| | INJECTIO | N PROJECT DATA | | - | | | |
| 20. No. of Injection Wells in this applicat | on 1 | | | | | | |
| 21. Type of Injection Project: Waterfl | ood 🗆 Pressure M | aintenance 🗓 M | scible Displacement | Natural Gas Storage □ | | | |
| Steam | ☐ Thermal Red | covery 🗆 Di | sposal \square | Other | | | |
| 22. If disposal, are fluids from leases oth | er than the lease iden | tified in Item 9? | Yes □ No □ | | | | |
| 23. Is this application for a Commercial I | Disposal Well ? | 1.1 | 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: | | • | ı | | | | |
| Salt Water $ \square \!$ | | | | | | | |
| 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: | | | | | | | |
| Water will be coming from the Canyon Sand formation. | | | | | | | |
| CERTIFICATE 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. Bonnie Burklund (bonnieburklund@gmail.com) Name of Person (type or print) | | | | | | | |
| | | Phone <u>512-79</u> | 9-4057 Fax | <u> </u> | | | |
| For Office Use Only | Register No. | | Amount \$ | | | | |

RAILROAD COMMISSION OF TEXAS -- OIL AND GAS DIVISION

| | ath is ab ath is the | , inj | ECTION | WELL DAT | A (attach to | Form H-1) | | Form H-1A | |
|--|---|-----------------------|--|-----------------|---------------------------------|---|-------------------------|----------------------|--|
| 1. Operator Name (as shown on P-5) 1. Operator Name (as shown on P-5) 1. C.S. Production Company 2. Operator P-5 No. 479574 3. Field Name Raven Creek (Canyon Sand) 4. Field No. 74863200 5. Current Lease Name 6. Lease/Gas ID No. | | | | | | | | | |
| 3. Field Name Rayen Creek (Canyon Sand) 4. Field No. 74863200 | | | | | | No. 74863200 | | | |
| 5. Current Lease Name Welch -A- Welch -A- 6. Lease/Gas ID No. N/A | | | | | | | | | |
| 7. Lease is7 | mile | sina Northe | east | direction from | Eskota, TX | | (cent | er of nearest town). | |
| 8. Well No. | 8. Well No. 9. API No. 10. UIC No. 11. Total Depth 12. Date Drilled 13. Base of Usable Quality Water 5.800 To Re Drilled (#) 100 UIC DW 600 | | | | | | of Usable Quality Water | | |
| 14. (a) Legal description of well location, including distance and direction from survey lines: 765' FNEL & 772" FNEL of Sec. 6, Blk 19, T&P RR Co.,/ Walling, J. R., Abstract 1778 (b) Latitude and Longitude of well location, if known (optional) Lat. 32.603017 Long100.176583 (Nad 27) | | | | | | | | | |
| 15. New Injection Well 🗵 or Injection Well Amendment 🗆 Reason for Amendment: Pressure 🗆 Volume 🗀 Interval 🗀 Fluid Type 🗀 | | | | | | | | | |
| | | ow is Propose | d: | Other (ex | | | | | |
| Casing | Size | Setting Depth | Hole Size | Weight | Cement Class | # Sacks of Cement | Top of Cement | Top Determined by | |
| 16. Surface 17. Intermediate | 8-5/8" | 133' | 12-1/4" | 24# | С | 100 | Surface | Circulation | |
| 18. Long string 19. Liner | 4-1/2" | 5,750' | 7-7/8" | 10.5# | C&C Lite | 735 | Surface | Calculation | |
| 20. Tubing size 21. Tubing depth 2-3/8" 3,900' | | | 22. Injection tubing packer depth 3,900' | | | 23. Injection interval 4,000' to 5,200' | | | |
| 24. Cement Sque | eze Operat | ions (List all) | Squeeze | interval (ft) | | No. of Sack | s | Top of Cement (ft) | |
| | | | | | | more than | 100' of rat l | ole below the | |
| bottom perm | itted inje | ction interval | .26 Downh | ole Water Sen | paration? | NOTE: If the | answer is "Ves | " to Item 25 | |
| 25. Multiple Completion? 26. Downhole Water Separation? NOTE: If the answer is "Yes" to Item 25 or 26, provide a Wellbore Sketch Yes □ No ☒ Yes □ No ☒ | | | | | | etch, | | | |
| 27. Fluid Type 28. Maximum daily injection volume for | | | | | | injection volume for each | | | |
| Salt Water | | | each fluid type (rate in bpd or mcf/d) 5,000 bpd | | | fluid type (rate in bpd or mcf/d) 3,000 bpd | | | |
| 30. Maximum Sui | rface Injecti | on Pressure: | for Liqui | d 2,000 | psig | for Gas | | psig. | |
| 8. Weil No. 9. API No. | | | 10. UIC No. 11. Total Depth 1: | | | (ft) | | | |
| 14. (a) Legal des | cription of v | vell location, includ | ling distanc | e and direction | from survey lin | es: | | | |
| (b) Latitude a | and Longitue | de of well location, | if known (o | ptional) Lat. | | | Long. | | |
| 15. New Injection Well \square or Injection Well Amendment \square Reason for Amendment: Pressure \square Volume \square Interval \square Fluid Type \square | | | | | | | | | |
| Casing | Size | Setting Depth | Hole Siz | Other (exp | Cement | # Sacks of | Top of | Top Determined by | |
| 16. Surface | | | | Weight | Class | Cement | Cement | | |
| 17. Intermediate | | | | | | | | | |
| 18. Long string 19. Liner | <u> </u> | | | | | | | | |
| 20. Tubing size | 21. Tubing | | 22. Inject | ion tubing pacl | ker depth | 23. Injection | | to | |
| 24. Cement Squeeze Operations (List all) | | | Squeeze Interval (ft) | | No. of Sacks Top of Cement (ft) | | | | |
| and the state of t | | | The state of the s | | | | | | |
| 28 a 200 per en 19 20 20 3 3 3 2 2 2 3 3 3 2 3 3 3 3 3 3 3 | | | | | | | | | |
| 25. Multiple Completion? | | | 26. Downhole Water Separation? | | | NOTE: If the answer is "Yes" to Item 25 | | | |
| Yes No No | | | Yes □ No □ | | | 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 Sui | face Injecti | on Pressure: | for Liqui | d | psig | for Gas | | psig. | |