

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form C-101  
August 1, 2011

Permit 398714

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

|   |  |                               |
|---|--|-------------------------------|
| 1. Operator Name and Address<br>3R Operating, LLC<br>20405 State Highway 249<br>Houston, TX 77070 |  | 2. OGRID Number<br>331569     |
| 4. Property Code<br>337811  |  | 3. API Number<br>30-015-57456 |
| 5. Property Name<br>Forehand Ranch 22 27 State Com  |  | 6. Well No.<br>801H           |

**7. Surface Location**

|               |               |                 |              |              |                   |               |                   |               |                |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|-------------------|---------------|----------------|
| UL - Lot<br>K | Section<br>22 | Township<br>23S | Range<br>27E | Lot Idn<br>K | Feet From<br>2317 | N/S Line<br>S | Feet From<br>1822 | E/W Line<br>W | County<br>Eddy |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|-------------------|---------------|----------------|

**8. Proposed Bottom Hole Location**

|               |               |                 |              |              |                  |               |                  |               |                |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|----------------|
| UL - Lot<br>M | Section<br>27 | Township<br>23S | Range<br>27E | Lot Idn<br>M | Feet From<br>330 | N/S Line<br>S | Feet From<br>660 | E/W Line<br>W | County<br>Eddy |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|----------------|

**9. Pool Information**

|                            |       |
|----------------------------|-------|
| PURPLE SAGE;WOLFCAMP (GAS) | 98220 |
|----------------------------|-------|

**Additional Well Information**

|                           |                             |  |                         |                                    |
|---------------------------|-----------------------------|--|-------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>GAS        | 13. Cable/Rotary                       | 14. Lease Type<br>State | 15. Ground Level Elevation<br>3155 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>17188 | 18. Formation<br>Wolfcamp              | 19. Contractor          | 20. Spud Date<br>10/24/2025        |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5      | 13.375      | 54.5             | 450           | 422             | 0             |
| Int1 | 12.25     | 9.625       | 40               | 2000          | 610             | 0             |
| Int2 | 9.875     | 7.625       | 29.7             | 9000          | 689             | 0             |
| Prod | 8.75      | 5.5         | 23               | 17188         | 218             | 8500          |

**Casing/Cement Program: Additional Comments**

|  |
|--|
|  |
|--|

**22. Proposed Blowout Prevention Program**

| Type       | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Annular    | 5000             | 2500          | Atlas        |
| Double Ram | 10000            | 5000          | Atlas        |

|   |  |
|---|--|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.<br><b>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.</b><br><br>Signature: | <b>OIL CONSERVATION DIVISION</b>                         |
| Printed Name: Electronically filed by Austin Tramell  | Approved By: Jeffrey Harrison                            |
| Title: Director of environmental and regulatory   | Title: Petroleum Specialist III                          |
| Email Address: atramell@3roperating.com   | Approved Date: 11/7/2025      Expiration Date: 11/7/2027 |
| Date: 11/6/2025      Phone: 832-810-1037  | Conditions of Approval Attached                          |

|   |  |                                     |   |
|---|--|-------------------------------------|---|
| <b>C-102</b><br><br>Submit Electronically<br>Via OCD Permitting | State of New Mexico<br>Energy, Minerals & Natural Resources Department<br><b>OIL CONSERVATION DIVISION</b> | Revised July 9, 2024                |   |
|   |  | Submittal<br>Type:                  | <input checked="" type="checkbox"/> Initial Submittal |
|   |  |                                     | <input type="checkbox"/> Amended Report               |
|   |  | <input type="checkbox"/> As Drilled |   |

## WELL LOCATION INFORMATION

|  |  |  |
|--|--|--|
| API Number<br><b>30-015-57456</b>  | Pool Code<br><b>98220</b>                              | Pool Name<br><b>PURPLE SAGE; WOLFCAMP (GAS)</b>  |
| Property Code<br><b>337811</b>   | Property Name<br><b>FOREHAND RANCH 22 27 STATE COM</b> | Well Number<br><b>801H</b>   |
| OGRID No.<br><b>331569</b>   | Operator Name<br><b>3R OPERATING, LLC</b>              | Ground Level Elevation<br><b>3,155'</b>  |
| Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal |  | Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal |

## Surface Location

|                |                      |                        |                     |     |                                   |                                   |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|-----------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>K</b> | Section<br><b>22</b> | Township<br><b>23S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>2,317' FSL</b> | Ft. from E/W<br><b>1,822' FWL</b> | Latitude<br><b>32.289425°</b> | Longitude<br><b>-104.180415°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|-----------------------------------|-------------------------------|----------------------------------|-----------------------|

## Bottom Hole Location

|                |                      |                        |                     |     |                                 |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>M</b> | Section<br><b>27</b> | Township<br><b>23S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>330' FSL</b> | Ft. from E/W<br><b>660' FWL</b> | Latitude<br><b>32.269264°</b> | Longitude<br><b>-104.184261°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

|                               |  |  |   |                                |
|-------------------------------|--|--|---|--------------------------------|
| Dedicated Acres<br><b>480</b> | Infill or Defining Well<br><b>Infill</b> | Defining Well API<br><b>30-015-43555</b> | Overlapping Spacing Unit (Y/N)<br><b>Y</b>  | Consolidation Code<br><b>C</b> |
| Order Numbers. <b>203744</b>  |  |  | Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                |

## Kick Off Point (KOP)

|                |                      |                        |                     |     |                                   |                                   |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|-----------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>K</b> | Section<br><b>22</b> | Township<br><b>23S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>2,317' FSL</b> | Ft. from E/W<br><b>1,822' FWL</b> | Latitude<br><b>32.289425°</b> | Longitude<br><b>-104.180415°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|-----------------------------------|-------------------------------|----------------------------------|-----------------------|

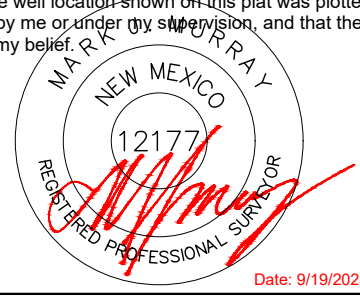
## First Take Point (FTP)

|                |                      |                        |                     |     |                                   |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>L</b> | Section<br><b>22</b> | Township<br><b>23S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>2,359' FSL</b> | Ft. from E/W<br><b>660' FWL</b> | Latitude<br><b>32.289420°</b> | Longitude<br><b>-104.184176°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

## Last Take Point (LTP)

|                |                      |                        |                     |     |                                 |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>M</b> | Section<br><b>27</b> | Township<br><b>23S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>330' FSL</b> | Ft. from E/W<br><b>660' FWL</b> | Latitude<br><b>32.269264°</b> | Longitude<br><b>-104.184261°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

|  |  |                         |
|--|--|-------------------------|
| Unitized Area or Area of Uniform Interest<br><b>Comm</b> | Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical | Ground Floor Elevation: |
|--|--|-------------------------|

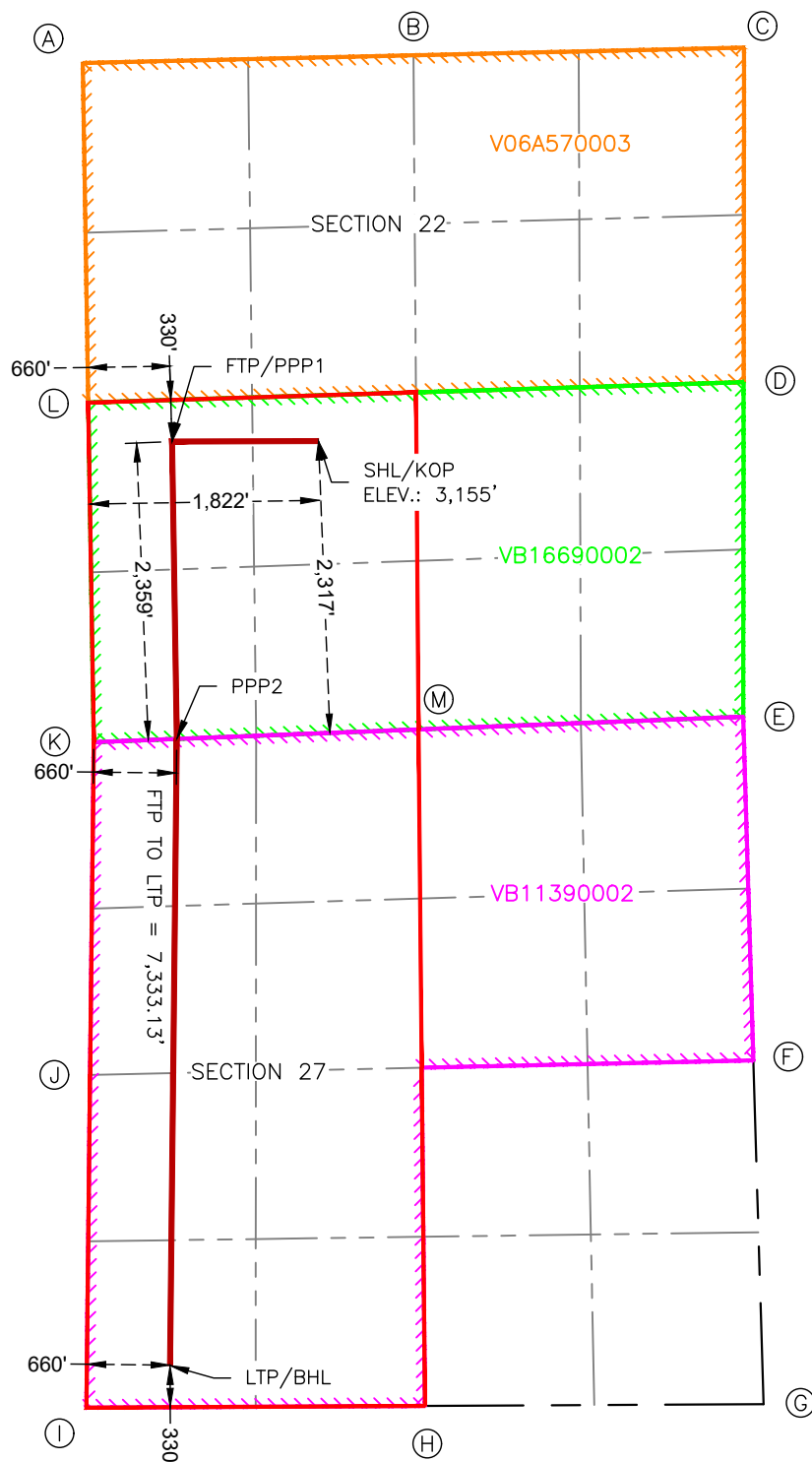
|  |  |   |                                    |
|--|--|---|------------------------------------|
| <b>OPERATOR CERTIFICATIONS</b><br><br>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.<br><br>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.<br><br><i>Austin Tramell</i> 09/22/2025<br>Signature Date |  | <b>SURVEYOR CERTIFICATIONS</b><br><br>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.<br><br><br>Date: 9/19/2025<br>Signature and Seal of Professional Surveyor |                                    |
| Printed Name<br><b>atramell@3roperating.com</b><br>Email Address   |  | Certificate Number<br><b>12177</b>  | Date of Survey<br><b>9/19/2025</b> |
|  |  | Revision Number<br><b>1</b>   |                                    |

Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

## ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



| CORNER COORDINATES<br>NEW MEXICO EAST - NAD 83 |                             |
|--|-----------------------------|
| POINT  | NORTHING/EASTING            |
| A  | N:472,059.75' E:586,719.92' |
| B  | N:472,120.67' E:589,344.46' |
| C  | N:472,181.60' E:591,969.00' |
| D  | N:469,527.00' E:591,965.50' |
| E  | N:466,872.40' E:591,962.00' |
| F  | N:464,145.20' E:592,042.51' |
| G  | N:461,417.99' E:592,123.02' |
| H  | N:461,403.78' E:589,435.92' |
| I  | N:461,389.58' E:586,748.83' |
| J  | N:464,029.99' E:586,778.02' |
| K  | N:466,670.40' E:586,807.20' |
| L  | N:469,365.07' E:586,763.56' |
| M  | N:466,771.40' E:589,384.60' |

SURFACE HOLE LOCATION  
& KICK-OFF POINT  
2,317' FSL & 1,822' FWL  
ELEV: 3,155'

NAD 83 X = 588,591.01'  
NAD 83 Y = 469,059.33'  
NAD 83 LAT = 32.289425°  
NAD 83 LONG = -104.180415°  
NAD 27 X = 547,408.67'  
NAD 27 Y = 469,000.57'  
NAD 27 LAT = 32.289306°  
NAD 27 LONG = -104.179916°

FIRST TAKE POINT &  
PENETRATION POINT 1  
2,359' FSL & 660' FWL  
NAD 83 X = 587,428.64'  
NAD 83 Y = 469,055.62'  
NAD 83 LAT = 32.289420°  
NAD 83 LONG = -104.184176°  
NAD 27 X = 546,246.32'  
NAD 27 Y = 468,996.87'  
NAD 27 LAT = 32.289300°  
NAD 27 LONG = -104.183677°

PENETRATION POINT 2  
0' FSL & 660' FWL  
NAD 83 X = 587,466.69'  
NAD 83 Y = 466,696.24'  
NAD 83 LAT = 32.282934°  
NAD 83 LONG = -104.184064°  
NAD 27 X = 546,284.32'  
NAD 27 Y = 466,637.56'  
NAD 27 LAT = 32.282815°  
NAD 27 LONG = -104.183565°

LAST TAKE POINT &  
BOTTOM HOLE LOCATION  
330' FSL & 660' FWL  
NAD 83 X = 587,412.56'  
NAD 83 Y = 461,723.09'  
NAD 83 LAT = 32.269264°  
NAD 83 LONG = -104.184261°  
NAD 27 X = 546,230.08'  
NAD 27 Y = 461,664.54'  
NAD 27 LAT = 32.269144°  
NAD 27 LONG = -104.183763°

FOREHAND RANCH 22 27 STATE COM 801H

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Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

Form APD Comments  
Permit 398714

PERMIT COMMENTS

|  |                                      |   |
|--|--------------------------------------|---|
| Operator Name and Address:<br>3R Operating, LLC [331569]<br>20405 State Highway 249<br>Houston, TX 77070 |                                      | API Number:<br>30-015-57456                   |
|  |                                      | Well:<br>Forehand Ranch 22 27 State Com #801H |
| Created By   | Comment                              | Comment Date                                  |
| jeffrey.harrison   | Please resubmit with corrected NGMP. | 10/10/2025                                    |
| jeffrey.harrison   | Infill to 30-015-43555               | 11/7/2025                                     |

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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Conditions

Permit 398714

**PERMIT CONDITIONS OF APPROVAL**

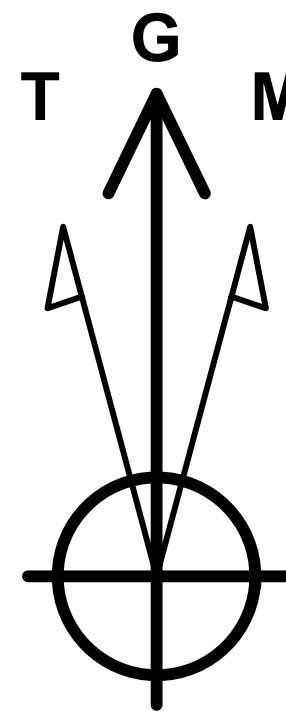
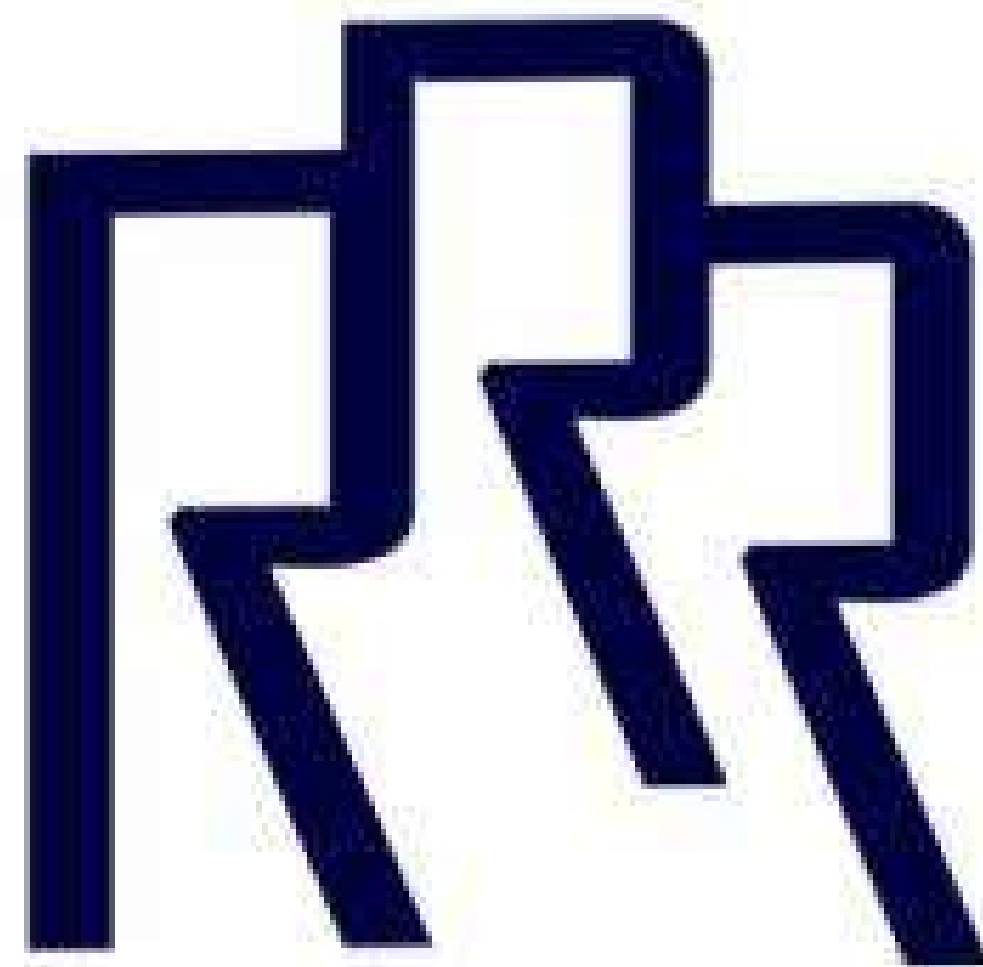
|  |   |
|--|---|
| Operator Name and Address:<br>3R Operating, LLC [331569]<br>20405 State Highway 249<br>Houston, TX 77070 | API Number:<br>30-015-57456                   |
|  | Well:<br>Forehand Ranch 22 27 State Com #801H |

| OCD Reviewer     | Condition   |
|------------------|---|
| jeffrey.harrison | No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.  |
| jeffrey.harrison | All logs run on the well must be submitted to NMOCD.  |
| jeffrey.harrison | Cement is required to circulate on both surface and intermediate1 strings of casing.  |
| jeffrey.harrison | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.  |
| jeffrey.harrison | A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.  |
| jeffrey.harrison | Notify the OCD 24 hours prior to casing & cement.   |
| jeffrey.harrison | File As Drilled C-102 and a directional Survey with C-104 completion packet.  |
| jeffrey.harrison | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string. |
| jeffrey.harrison | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.                  |



# 3R Operating, LLC

Company: 3R Operating, LLC  
Field: Eddy County, NM (NAD83)  
Location: Forehand Ranch 22-27  
Well: Forehand Ranch 22-27 State Com 801H  
OH  
Plan: Plan 1  
GL 3155 + 26.5' KB @ 3181.50usft



Azimuths to Grid North  
True North: -0.08°  
Magnetic North: 6.44°

Magnetic Field  
Strength: 46974.2nT  
Dip Angle: 59.72°  
Date: 9/12/2025  
Model: IGRF2025

To convert a Magnetic Direction to a Grid Direction, Add 6.44°



PROJECT DETAILS: Eddy County, NM (NAD83)

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

RIG: TBD

WELL DETAILS: Forehand Ranch 22-27 State Com 801H

|       |       | GL 3155 + 26.5' KB @ 3181.50usft |           | 3155.00   |             | Slot |
|-------|-------|----------------------------------|-----------|-----------|-------------|------|
| +N/-S | +E/-W | Northing                         | Easting   | Latitude  | Longitude   |      |
| 0.00  | 0.00  | 469059.33                        | 588591.01 | 32.289425 | -104.180415 |      |

DESIGN TARGET DETAILS

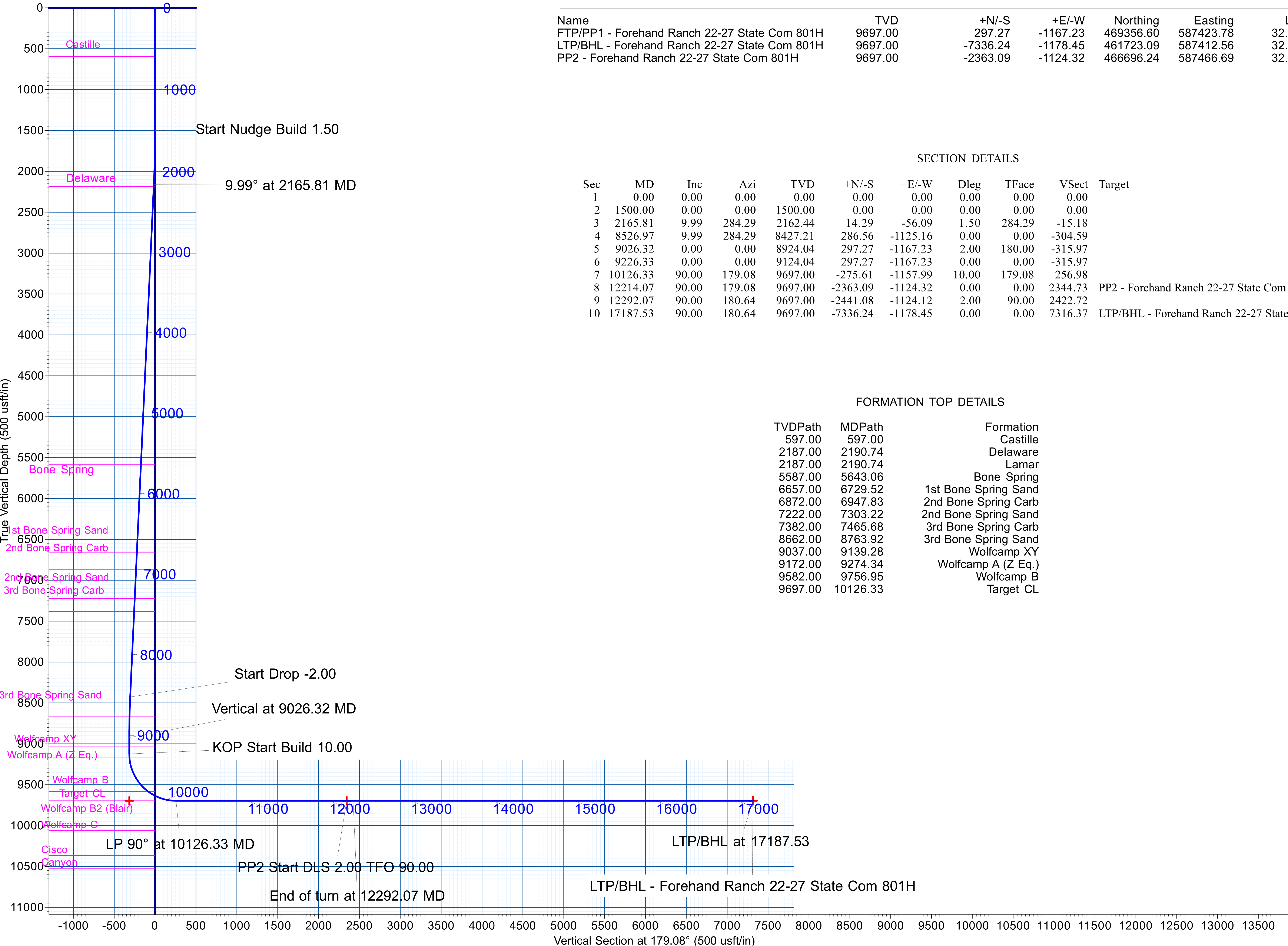
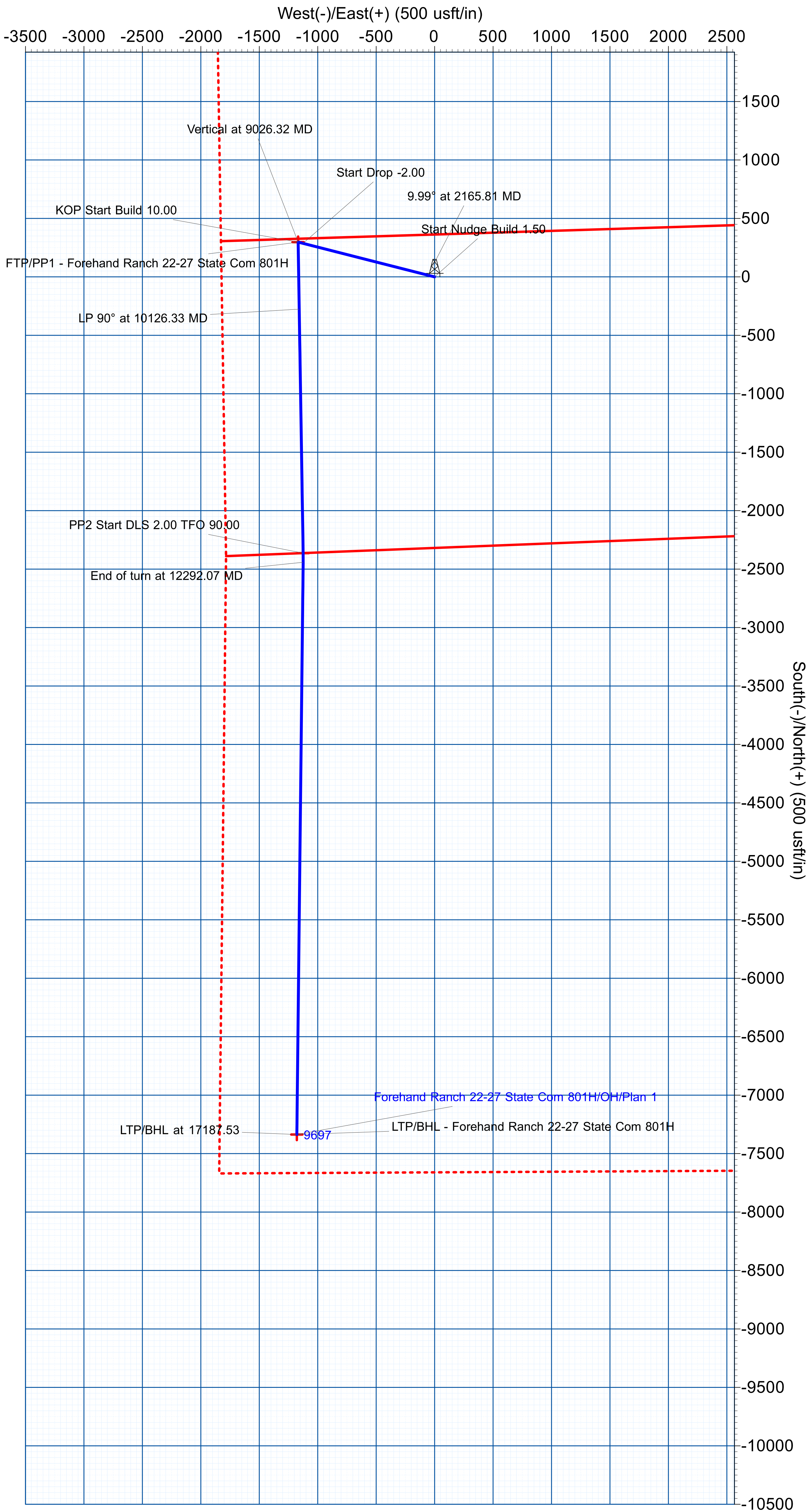
| Name  | TVD     | +N/-S    | +E/-W    | Northing  | Easting   | Latitude  | Longitude   |
|---|---------|----------|----------|-----------|-----------|-----------|-------------|
| FTP/PP1 - Forehand Ranch 22-27 State Com 801H | 9697.00 | 297.27   | -1167.23 | 469356.60 | 587423.78 | 32.290247 | -104.184191 |
| LTP/BHL - Forehand Ranch 22-27 State Com 801H | 9697.00 | -7336.24 | -1178.45 | 461723.09 | 587412.56 | 32.269264 | -104.184261 |
| PP2 - Forehand Ranch 22-27 State Com 801H     | 9697.00 | -2363.09 | -1124.32 | 466696.24 | 587466.69 | 32.282934 | -104.184064 |

SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD     | +N/-S    | +E/-W    | Dleg  | TFace  | VSect   | Target  |
|-----|----------|-------|--------|---------|----------|----------|-------|--------|---------|---|
| 1   | 0.00     | 0.00  | 0.00   | 0.00    | 0.00     | 0.00     | 0.00  | 0.00   | 0.00    |   |
| 2   | 1500.00  | 0.00  | 0.00   | 1500.00 | 0.00     | 0.00     | 0.00  | 0.00   | 0.00    |   |
| 3   | 2165.81  | 9.99  | 284.29 | 2162.44 | 14.29    | -56.09   | 1.50  | 284.29 | -15.18  |   |
| 4   | 8526.97  | 9.99  | 284.29 | 8427.21 | 286.56   | -1125.16 | 0.00  | 0.00   | -304.59 |   |
| 5   | 9026.32  | 0.00  | 0.00   | 8924.04 | 297.27   | -1167.23 | 2.00  | 180.00 | -315.97 |   |
| 6   | 9226.33  | 0.00  | 0.00   | 9124.04 | 297.27   | -1167.23 | 0.00  | 0.00   | -315.97 |   |
| 7   | 10126.33 | 90.00 | 179.08 | 9697.00 | -275.61  | -1157.99 | 10.00 | 179.08 | 256.98  | PP2 - Forehand Ranch 22-27 State Com 801H     |
| 8   | 12214.07 | 90.00 | 179.08 | 9697.00 | -2363.09 | -1124.32 | 0.00  | 0.00   | 2344.73 |   |
| 9   | 12292.07 | 90.00 | 180.64 | 9697.00 | -2441.08 | -1124.12 | 2.00  | 90.00  | 2422.72 |   |
| 10  | 17187.53 | 90.00 | 180.64 | 9697.00 | -7336.24 | -1178.45 | 0.00  | 0.00   | 7316.37 | LTP/BHL - Forehand Ranch 22-27 State Com 801H |

FORMATION TOP DETAILS

| TVDPath | MDPath   | Formation            |
|---------|----------|----------------------|
| 597.00  | 597.00   | Castille             |
| 2187.00 | 2190.74  | Delaware             |
| 2187.00 | 2190.74  | Lamar                |
| 5587.00 | 5643.06  | Bone Spring          |
| 6657.00 | 6729.52  | 1st Bone Spring Sand |
| 6872.00 | 6947.83  | 2nd Bone Spring Carb |
| 7222.00 | 7303.22  | 2nd Bone Spring Sand |
| 7382.00 | 7465.68  | 3rd Bone Spring Carb |
| 8662.00 | 8763.92  | 3rd Bone Spring Sand |
| 9037.00 | 9139.28  | Wolfcamp XY          |
| 9172.00 | 9274.34  | Wolfcamp A (Z Eq.)   |
| 9582.00 | 9756.95  | Wolfcamp B           |
| 9697.00 | 10126.33 | Target CL            |





## **3R Operating, LLC**

**Eddy County, NM (NAD83)**

**Forehand Ranch 22-27**

**Forehand Ranch 22-27 State Com 801H**

**OH**

**Plan: Plan 1**

## **Standard Planning Report**

**12 September, 2025**





## Legacy Directional Drilling

## Planning Report

|                  |                                     |                                     |  |
|------------------|-------------------------------------|-------------------------------------|--|
| <b>Database:</b> | EDM_WA                              | <b>Local Co-ordinate Reference:</b> | Well Forehand Ranch 22-27 State Com 801H |
| <b>Company:</b>  | 3R Operating, LLC                   | <b>TVD Reference:</b>               | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Project:</b>  | Eddy County, NM (NAD83)             | <b>MD Reference:</b>                | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Site:</b>     | Forehand Ranch 22-27                | <b>North Reference:</b>             | Grid                                     |
| <b>Well:</b>     | Forehand Ranch 22-27 State Com 801H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                                  |                                     |  |
| <b>Design:</b>   | Plan 1                              |                                     |  |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, NM (NAD83)   |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      |                |

| Site                  |           | Forehand Ranch 22-27 |                 |            |             |
|-----------------------|-----------|----------------------|-----------------|------------|-------------|
| Site Position:        |           | Northing:            | 469,059.33 usft | Latitude:  | 32.289425   |
| From:                 | Map       | Easting:             | 588,591.01 usft | Longitude: | -104.180415 |
| Position Uncertainty: | 0.00 usft | Slot Radius:         | 13-3/16 "       |            |             |

| Well                 | Forehand Ranch 22-27 State Com 801H |           |                     |                 |               |               |
|----------------------|-------------------------------------|-----------|---------------------|-----------------|---------------|---------------|
| Well Position        | +N/-S                               | 0.00 usft | Northing:           | 469,059.33 usft | Latitude:     | 32.289425     |
|                      | +E/-W                               | 0.00 usft | Easting:            | 588,591.01 usft | Longitude:    | -104.180415   |
| Position Uncertainty |                                     | 0.00 usft | Wellhead Elevation: | usft            | Ground Level: | 3,155.00 usft |
| Grid Convergence:    |                                     | 0.08 °    |                     |                 |               |               |

|                  |                   |                    |                            |                          |                                |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
| <b>Wellbore</b>  | OH                |                    |                            |                          |                                |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination<br/>(°)</b> | <b>Dip Angle<br/>(°)</b> | <b>Field Strength<br/>(nT)</b> |
|                  | IGRF2025          | 9/12/2025          | 6.52                       | 59.72                    | 46,974.19913046                |

|                          |                                    |                         |                         |                          |      |
|--------------------------|------------------------------------|-------------------------|-------------------------|--------------------------|------|
| <b>Design</b>            | Plan 1                             |                         |                         |                          |      |
| <b>Audit Notes:</b>      |                                    |                         |                         |                          |      |
| <b>Version:</b>          |                                    | <b>Phase:</b>           | PLAN                    | <b>Tie On Depth:</b>     | 0.00 |
| <b>Vertical Section:</b> | <b>Depth From (TVD)<br/>(usft)</b> | <b>+N/-S<br/>(usft)</b> | <b>+E/-W<br/>(usft)</b> | <b>Direction<br/>(°)</b> |      |
|                          | 0.00                               | 0.00                    | 0.00                    | 179.08                   |      |

|                                 |                            |                          |                     |                |  |
|---------------------------------|----------------------------|--------------------------|---------------------|----------------|--|
| <b>Plan Survey Tool Program</b> | <b>Date</b>                | 9/12/2025                |                     |                |  |
| <b>Depth From<br/>(usft)</b>    | <b>Depth To<br/>(usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>    | <b>Remarks</b> |  |
| 1                               | 0.00                       | 17,187.53 Plan 1 (OH)    | MWD                 |                |  |
|                                 |                            |                          | OWSG MWD - Standard |                |  |





Legacy Directional Drilling

Planning Report

|           |                                     |                              |  |
|-----------|-------------------------------------|------------------------------|--|
| Database: | EDM_WA                              | Local Co-ordinate Reference: | Well Forehand Ranch 22-27 State Com 801H |
| Company:  | 3R Operating, LLC                   | TVD Reference:               | GL 3155 + 26.5' KB @ 3181.50usft         |
| Project:  | Eddy County, NM (NAD83)             | MD Reference:                | GL 3155 + 26.5' KB @ 3181.50usft         |
| Site:     | Forehand Ranch 22-27                | North Reference:             | Grid                                     |
| Well:     | Forehand Ranch 22-27 State Com 801H | Survey Calculation Method:   | Minimum Curvature                        |
| Wellbore: | OH                                  |                              |  |
| Design:   | Plan 1                              |                              |  |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                      |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target               |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 1,500.00              | 0.00            | 0.00        | 1,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 2,165.81              | 9.99            | 284.29      | 2,162.44              | 14.29        | -56.09       | 1.50                    | 1.50                   | 0.00                  | 284.29  |                      |
| 8,526.97              | 9.99            | 284.29      | 8,427.21              | 286.56       | -1,125.16    | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 9,026.32              | 0.00            | 0.00        | 8,924.04              | 297.27       | -1,167.23    | 2.00                    | -2.00                  | 0.00                  | 180.00  |                      |
| 9,226.33              | 0.00            | 0.00        | 9,124.04              | 297.27       | -1,167.23    | 0.00                    | 0.00                   | 0.00                  | 0.00    |                      |
| 10,126.33             | 90.00           | 179.08      | 9,697.00              | -275.61      | -1,157.99    | 10.00                   | 10.00                  | 0.00                  | 179.08  |                      |
| 12,214.07             | 90.00           | 179.08      | 9,697.00              | -2,363.09    | -1,124.32    | 0.00                    | 0.00                   | 0.00                  | 0.00    | PP2 - Forehand Ranc  |
| 12,292.07             | 90.00           | 180.64      | 9,697.00              | -2,441.08    | -1,124.12    | 2.00                    | 0.00                   | 2.00                  | 90.00   |                      |
| 17,187.53             | 90.00           | 180.64      | 9,697.00              | -7,336.24    | -1,178.45    | 0.00                    | 0.00                   | 0.00                  | 0.00    | LTP/BHL - Forehand I |



## Legacy Directional Drilling

## Planning Report

|                  |                                     |                                     |  |
|------------------|-------------------------------------|-------------------------------------|--|
| <b>Database:</b> | EDM_WA                              | <b>Local Co-ordinate Reference:</b> | Well Forehand Ranch 22-27 State Com 801H |
| <b>Company:</b>  | 3R Operating, LLC                   | <b>TVD Reference:</b>               | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Project:</b>  | Eddy County, NM (NAD83)             | <b>MD Reference:</b>                | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Site:</b>     | Forehand Ranch 22-27                | <b>North Reference:</b>             | Grid                                     |
| <b>Well:</b>     | Forehand Ranch 22-27 State Com 801H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                                  |                                     |  |
| <b>Design:</b>   | Plan 1                              |                                     |  |

| Planned Survey                |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)         | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.00                          | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 100.00                        | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 200.00                        | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 300.00                        | 0.00            | 0.00        | 300.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 400.00                        | 0.00            | 0.00        | 400.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 500.00                        | 0.00            | 0.00        | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 597.00                        | 0.00            | 0.00        | 597.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Castille</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 600.00                        | 0.00            | 0.00        | 600.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 700.00                        | 0.00            | 0.00        | 700.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 800.00                        | 0.00            | 0.00        | 800.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 900.00                        | 0.00            | 0.00        | 900.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,000.00                      | 0.00            | 0.00        | 1,000.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,100.00                      | 0.00            | 0.00        | 1,100.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,200.00                      | 0.00            | 0.00        | 1,200.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,300.00                      | 0.00            | 0.00        | 1,300.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,400.00                      | 0.00            | 0.00        | 1,400.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00                      | 0.00            | 0.00        | 1,500.00              | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Nudge Build 1.50</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,600.00                      | 1.50            | 284.29      | 1,599.99              | 0.32         | -1.27        | -0.34                   | 1.50                    | 1.50                   | 0.00                  |
| 1,700.00                      | 3.00            | 284.29      | 1,699.91              | 1.29         | -5.07        | -1.37                   | 1.50                    | 1.50                   | 0.00                  |
| 1,800.00                      | 4.50            | 284.29      | 1,799.69              | 2.91         | -11.41       | -3.09                   | 1.50                    | 1.50                   | 0.00                  |
| 1,900.00                      | 6.00            | 284.29      | 1,899.27              | 5.16         | -20.28       | -5.49                   | 1.50                    | 1.50                   | 0.00                  |
| 2,000.00                      | 7.50            | 284.29      | 1,998.57              | 8.07         | -31.67       | -8.57                   | 1.50                    | 1.50                   | 0.00                  |
| 2,100.00                      | 9.00            | 284.29      | 2,097.54              | 11.61        | -45.57       | -12.34                  | 1.50                    | 1.50                   | 0.00                  |
| 2,165.81                      | 9.99            | 284.29      | 2,162.44              | 14.29        | -56.09       | -15.18                  | 1.50                    | 1.50                   | 0.00                  |
| <b>9.99° at 2165.81 MD</b>    |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,190.74                      | 9.99            | 284.29      | 2,187.00              | 15.35        | -60.28       | -16.32                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Lamar - Delaware</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,200.00                      | 9.99            | 284.29      | 2,196.12              | 15.75        | -61.84       | -16.74                  | 0.00                    | 0.00                   | 0.00                  |
| 2,300.00                      | 9.99            | 284.29      | 2,294.60              | 20.03        | -78.64       | -21.29                  | 0.00                    | 0.00                   | 0.00                  |
| 2,400.00                      | 9.99            | 284.29      | 2,393.08              | 24.31        | -95.45       | -25.84                  | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                      | 9.99            | 284.29      | 2,491.57              | 28.59        | -112.26      | -30.39                  | 0.00                    | 0.00                   | 0.00                  |
| 2,600.00                      | 9.99            | 284.29      | 2,590.05              | 32.87        | -129.06      | -34.94                  | 0.00                    | 0.00                   | 0.00                  |
| 2,700.00                      | 9.99            | 284.29      | 2,688.54              | 37.15        | -145.87      | -39.49                  | 0.00                    | 0.00                   | 0.00                  |
| 2,800.00                      | 9.99            | 284.29      | 2,787.02              | 41.43        | -162.67      | -44.04                  | 0.00                    | 0.00                   | 0.00                  |
| 2,900.00                      | 9.99            | 284.29      | 2,885.51              | 45.71        | -179.48      | -48.59                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                      | 9.99            | 284.29      | 2,983.99              | 49.99        | -196.29      | -53.14                  | 0.00                    | 0.00                   | 0.00                  |
| 3,100.00                      | 9.99            | 284.29      | 3,082.48              | 54.27        | -213.09      | -57.69                  | 0.00                    | 0.00                   | 0.00                  |
| 3,200.00                      | 9.99            | 284.29      | 3,180.96              | 58.55        | -229.90      | -62.23                  | 0.00                    | 0.00                   | 0.00                  |
| 3,300.00                      | 9.99            | 284.29      | 3,279.45              | 62.83        | -246.71      | -66.78                  | 0.00                    | 0.00                   | 0.00                  |
| 3,400.00                      | 9.99            | 284.29      | 3,377.93              | 67.11        | -263.51      | -71.33                  | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                      | 9.99            | 284.29      | 3,476.42              | 71.39        | -280.32      | -75.88                  | 0.00                    | 0.00                   | 0.00                  |
| 3,600.00                      | 9.99            | 284.29      | 3,574.90              | 75.67        | -297.12      | -80.43                  | 0.00                    | 0.00                   | 0.00                  |
| 3,700.00                      | 9.99            | 284.29      | 3,673.39              | 79.95        | -313.93      | -84.98                  | 0.00                    | 0.00                   | 0.00                  |
| 3,800.00                      | 9.99            | 284.29      | 3,771.87              | 84.23        | -330.74      | -89.53                  | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                      | 9.99            | 284.29      | 3,870.35              | 88.51        | -347.54      | -94.08                  | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                      | 9.99            | 284.29      | 3,968.84              | 92.79        | -364.35      | -98.63                  | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                      | 9.99            | 284.29      | 4,067.32              | 97.07        | -381.16      | -103.18                 | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                      | 9.99            | 284.29      | 4,165.81              | 101.35       | -397.96      | -107.73                 | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                      | 9.99            | 284.29      | 4,264.29              | 105.63       | -414.77      | -112.28                 | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                      | 9.99            | 284.29      | 4,362.78              | 109.91       | -431.57      | -116.83                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                      | 9.99            | 284.29      | 4,461.26              | 114.19       | -448.38      | -121.38                 | 0.00                    | 0.00                   | 0.00                  |
| 4,600.00                      | 9.99            | 284.29      | 4,559.75              | 118.47       | -465.19      | -125.93                 | 0.00                    | 0.00                   | 0.00                  |



## Legacy Directional Drilling

## Planning Report

|                  |                                     |                                     |  |
|------------------|-------------------------------------|-------------------------------------|--|
| <b>Database:</b> | EDM_WA                              | <b>Local Co-ordinate Reference:</b> | Well Forehand Ranch 22-27 State Com 801H |
| <b>Company:</b>  | 3R Operating, LLC                   | <b>TVD Reference:</b>               | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Project:</b>  | Eddy County, NM (NAD83)             | <b>MD Reference:</b>                | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Site:</b>     | Forehand Ranch 22-27                | <b>North Reference:</b>             | Grid                                     |
| <b>Well:</b>     | Forehand Ranch 22-27 State Com 801H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                                  |                                     |  |
| <b>Design:</b>   | Plan 1                              |                                     |  |

| Planned Survey              |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)       | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 4,700.00                    | 9.99            | 284.29      | 4,658.23              | 122.75       | -481.99      | -130.48                 | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                    | 9.99            | 284.29      | 4,756.72              | 127.03       | -498.80      | -135.03                 | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                    | 9.99            | 284.29      | 4,855.20              | 131.31       | -515.61      | -139.58                 | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                    | 9.99            | 284.29      | 4,953.69              | 135.59       | -532.41      | -144.13                 | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                    | 9.99            | 284.29      | 5,052.17              | 139.87       | -549.22      | -148.68                 | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                    | 9.99            | 284.29      | 5,150.66              | 144.15       | -566.02      | -153.22                 | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                    | 9.99            | 284.29      | 5,249.14              | 148.44       | -582.83      | -157.77                 | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00                    | 9.99            | 284.29      | 5,347.62              | 152.72       | -599.64      | -162.32                 | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                    | 9.99            | 284.29      | 5,446.11              | 157.00       | -616.44      | -166.87                 | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                    | 9.99            | 284.29      | 5,544.59              | 161.28       | -633.25      | -171.42                 | 0.00                    | 0.00                   | 0.00                  |
| 5,643.06                    | 9.99            | 284.29      | 5,587.00              | 163.12       | -640.49      | -173.38                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Bone Spring</b>          |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,700.00                    | 9.99            | 284.29      | 5,643.08              | 165.56       | -650.06      | -175.97                 | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                    | 9.99            | 284.29      | 5,741.56              | 169.84       | -666.86      | -180.52                 | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                    | 9.99            | 284.29      | 5,840.05              | 174.12       | -683.67      | -185.07                 | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                    | 9.99            | 284.29      | 5,938.53              | 178.40       | -700.47      | -189.62                 | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                    | 9.99            | 284.29      | 6,037.02              | 182.68       | -717.28      | -194.17                 | 0.00                    | 0.00                   | 0.00                  |
| 6,200.00                    | 9.99            | 284.29      | 6,135.50              | 186.96       | -734.09      | -198.72                 | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                    | 9.99            | 284.29      | 6,233.99              | 191.24       | -750.89      | -203.27                 | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                    | 9.99            | 284.29      | 6,332.47              | 195.52       | -767.70      | -207.82                 | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                    | 9.99            | 284.29      | 6,430.96              | 199.80       | -784.51      | -212.37                 | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                    | 9.99            | 284.29      | 6,529.44              | 204.08       | -801.31      | -216.92                 | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                    | 9.99            | 284.29      | 6,627.93              | 208.36       | -818.12      | -221.47                 | 0.00                    | 0.00                   | 0.00                  |
| 6,729.52                    | 9.99            | 284.29      | 6,657.00              | 209.62       | -823.08      | -222.81                 | 0.00                    | 0.00                   | 0.00                  |
| <b>1st Bone Spring Sand</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,800.00                    | 9.99            | 284.29      | 6,726.41              | 212.64       | -834.92      | -226.02                 | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00                    | 9.99            | 284.29      | 6,824.90              | 216.92       | -851.73      | -230.57                 | 0.00                    | 0.00                   | 0.00                  |
| 6,947.83                    | 9.99            | 284.29      | 6,872.00              | 218.97       | -859.77      | -232.74                 | 0.00                    | 0.00                   | 0.00                  |
| <b>2nd Bone Spring Carb</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,000.00                    | 9.99            | 284.29      | 6,923.38              | 221.20       | -868.54      | -235.12                 | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                    | 9.99            | 284.29      | 7,021.86              | 225.48       | -885.34      | -239.67                 | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                    | 9.99            | 284.29      | 7,120.35              | 229.76       | -902.15      | -244.21                 | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                    | 9.99            | 284.29      | 7,218.83              | 234.04       | -918.95      | -248.76                 | 0.00                    | 0.00                   | 0.00                  |
| 7,303.22                    | 9.99            | 284.29      | 7,222.00              | 234.18       | -919.50      | -248.91                 | 0.00                    | 0.00                   | 0.00                  |
| <b>2nd Bone Spring Sand</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,400.00                    | 9.99            | 284.29      | 7,317.32              | 238.32       | -935.76      | -253.31                 | 0.00                    | 0.00                   | 0.00                  |
| 7,465.68                    | 9.99            | 284.29      | 7,382.00              | 241.13       | -946.80      | -256.30                 | 0.00                    | 0.00                   | 0.00                  |
| <b>3rd Bone Spring Carb</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,500.00                    | 9.99            | 284.29      | 7,415.80              | 242.60       | -952.57      | -257.86                 | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                    | 9.99            | 284.29      | 7,514.29              | 246.88       | -969.37      | -262.41                 | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                    | 9.99            | 284.29      | 7,612.77              | 251.16       | -986.18      | -266.96                 | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                    | 9.99            | 284.29      | 7,711.26              | 255.44       | -1,002.99    | -271.51                 | 0.00                    | 0.00                   | 0.00                  |
| 7,900.00                    | 9.99            | 284.29      | 7,809.74              | 259.72       | -1,019.79    | -276.06                 | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                    | 9.99            | 284.29      | 7,908.23              | 264.00       | -1,036.60    | -280.61                 | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                    | 9.99            | 284.29      | 8,006.71              | 268.28       | -1,053.40    | -285.16                 | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                    | 9.99            | 284.29      | 8,105.20              | 272.56       | -1,070.21    | -289.71                 | 0.00                    | 0.00                   | 0.00                  |
| 8,300.00                    | 9.99            | 284.29      | 8,203.68              | 276.84       | -1,087.02    | -294.26                 | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                    | 9.99            | 284.29      | 8,302.17              | 281.12       | -1,103.82    | -298.81                 | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                    | 9.99            | 284.29      | 8,400.65              | 285.40       | -1,120.63    | -303.36                 | 0.00                    | 0.00                   | 0.00                  |
| 8,526.97                    | 9.99            | 284.29      | 8,427.21              | 286.56       | -1,125.16    | -304.59                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Drop -2.00</b>     |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,600.00                    | 8.53            | 284.29      | 8,499.29              | 289.46       | -1,136.55    | -307.67                 | 2.00                    | -2.00                  | 0.00                  |
| 8,700.00                    | 6.53            | 284.29      | 8,598.42              | 292.69       | -1,149.24    | -311.10                 | 2.00                    | -2.00                  | 0.00                  |



## Legacy Directional Drilling

## Planning Report

|                  |                                     |                                     |  |
|------------------|-------------------------------------|-------------------------------------|--|
| <b>Database:</b> | EDM_WA                              | <b>Local Co-ordinate Reference:</b> | Well Forehand Ranch 22-27 State Com 801H |
| <b>Company:</b>  | 3R Operating, LLC                   | <b>TVD Reference:</b>               | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Project:</b>  | Eddy County, NM (NAD83)             | <b>MD Reference:</b>                | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Site:</b>     | Forehand Ranch 22-27                | <b>North Reference:</b>             | Grid                                     |
| <b>Well:</b>     | Forehand Ranch 22-27 State Com 801H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                                  |                                     |  |
| <b>Design:</b>   | Plan 1                              |                                     |  |

| Planned Survey                           |                 |             |                       |              |              |                         |                         |                        |                       |  |
|--|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft)                    | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 8,763.92                                 | 5.25            | 284.29      | 8,662.00              | 294.31       | -1,155.59    | -312.82                 | 2.00                    | -2.00                  | 0.00                  |  |
| <b>3rd Bone Spring Sand</b>              |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 8,800.00                                 | 4.53            | 284.29      | 8,697.95              | 295.06       | -1,158.57    | -313.63                 | 2.00                    | -2.00                  | 0.00                  |  |
| 8,900.00                                 | 2.53            | 284.29      | 8,797.76              | 296.58       | -1,164.53    | -315.24                 | 2.00                    | -2.00                  | 0.00                  |  |
| 9,000.00                                 | 0.53            | 284.29      | 8,897.72              | 297.24       | -1,167.11    | -315.94                 | 2.00                    | -2.00                  | 0.00                  |  |
| 9,026.32                                 | 0.00            | 0.00        | 8,924.04              | 297.27       | -1,167.23    | -315.97                 | 2.00                    | -2.00                  | 0.00                  |  |
| <b>Vertical at 9026.32 MD</b>            |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,100.00                                 | 0.00            | 0.00        | 8,997.72              | 297.27       | -1,167.23    | -315.97                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,139.28                                 | 0.00            | 0.00        | 9,037.00              | 297.27       | -1,167.23    | -315.97                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>Wolfcamp XY</b>                       |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,200.00                                 | 0.00            | 0.00        | 9,097.72              | 297.27       | -1,167.23    | -315.97                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,226.33                                 | 0.00            | 0.00        | 9,124.04              | 297.27       | -1,167.23    | -315.97                 | 0.00                    | 0.00                   | 0.00                  |  |
| <b>KOP Start Build 10.00</b>             |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,250.00                                 | 2.37            | 179.08      | 9,147.71              | 296.78       | -1,167.22    | -315.48                 | 10.00                   | 10.00                  | 0.00                  |  |
| 9,274.34                                 | 4.80            | 179.08      | 9,172.00              | 295.26       | -1,167.20    | -313.96                 | 10.00                   | 10.00                  | 0.00                  |  |
| <b>Wolfcamp A (Z Eq.)</b>                |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,300.00                                 | 7.37            | 179.08      | 9,197.51              | 292.54       | -1,167.15    | -311.24                 | 10.00                   | 10.00                  | 0.00                  |  |
| 9,350.00                                 | 12.37           | 179.08      | 9,246.76              | 283.98       | -1,167.02    | -302.68                 | 10.00                   | 10.00                  | 0.00                  |  |
| 9,400.00                                 | 17.37           | 179.08      | 9,295.07              | 271.15       | -1,166.81    | -289.85                 | 10.00                   | 10.00                  | 0.00                  |  |
| 9,450.00                                 | 22.37           | 179.08      | 9,342.08              | 254.17       | -1,166.53    | -272.87                 | 10.00                   | 10.00                  | 0.00                  |  |
| 9,500.00                                 | 27.37           | 179.08      | 9,387.43              | 233.15       | -1,166.20    | -251.85                 | 10.00                   | 10.00                  | 0.00                  |  |
| 9,550.00                                 | 32.37           | 179.08      | 9,430.77              | 208.26       | -1,165.79    | -226.95                 | 10.00                   | 10.00                  | 0.00                  |  |
| 9,600.00                                 | 37.37           | 179.08      | 9,471.78              | 179.69       | -1,165.33    | -198.38                 | 10.00                   | 10.00                  | 0.00                  |  |
| 9,650.00                                 | 42.37           | 179.08      | 9,510.15              | 147.66       | -1,164.82    | -166.34                 | 10.00                   | 10.00                  | 0.00                  |  |
| 9,700.00                                 | 47.37           | 179.08      | 9,545.57              | 112.40       | -1,164.25    | -131.08                 | 10.00                   | 10.00                  | 0.00                  |  |
| 9,750.00                                 | 52.37           | 179.08      | 9,577.79              | 74.19        | -1,163.63    | -92.86                  | 10.00                   | 10.00                  | 0.00                  |  |
| 9,756.95                                 | 53.06           | 179.08      | 9,582.00              | 68.66        | -1,163.54    | -87.33                  | 10.00                   | 10.00                  | 0.00                  |  |
| <b>Wolfcamp B</b>                        |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 9,800.00                                 | 57.37           | 179.08      | 9,606.56              | 33.31        | -1,162.97    | -51.98                  | 10.00                   | 10.00                  | 0.00                  |  |
| 9,850.00                                 | 62.37           | 179.08      | 9,631.65              | -9.91        | -1,162.28    | -8.75                   | 10.00                   | 10.00                  | 0.00                  |  |
| 9,900.00                                 | 67.37           | 179.08      | 9,652.88              | -55.16       | -1,161.55    | 36.50                   | 10.00                   | 10.00                  | 0.00                  |  |
| 9,950.00                                 | 72.37           | 179.08      | 9,670.08              | -102.08      | -1,160.79    | 83.43                   | 10.00                   | 10.00                  | 0.00                  |  |
| 10,000.00                                | 77.37           | 179.08      | 9,683.13              | -150.32      | -1,160.01    | 131.68                  | 10.00                   | 10.00                  | 0.00                  |  |
| 10,050.00                                | 82.37           | 179.08      | 9,691.92              | -199.52      | -1,159.22    | 180.88                  | 10.00                   | 10.00                  | 0.00                  |  |
| 10,100.00                                | 87.37           | 179.08      | 9,696.40              | -249.30      | -1,158.41    | 230.67                  | 10.00                   | 10.00                  | 0.00                  |  |
| 10,126.33                                | 90.00           | 179.08      | 9,697.00              | -275.61      | -1,157.99    | 256.98                  | 10.00                   | 10.00                  | 0.00                  |  |
| <b>LP 90° at 10126.33 MD - Target CL</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 10,200.00                                | 90.00           | 179.08      | 9,697.00              | -349.28      | -1,156.80    | 330.66                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,300.00                                | 90.00           | 179.08      | 9,697.00              | -449.26      | -1,155.19    | 430.66                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.00                                | 90.00           | 179.08      | 9,697.00              | -549.25      | -1,153.58    | 530.66                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,500.00                                | 90.00           | 179.08      | 9,697.00              | -649.24      | -1,151.96    | 630.66                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.00                                | 90.00           | 179.08      | 9,697.00              | -749.23      | -1,150.35    | 730.66                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,700.00                                | 90.00           | 179.08      | 9,697.00              | -849.21      | -1,148.74    | 830.66                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,800.00                                | 90.00           | 179.08      | 9,697.00              | -949.20      | -1,147.13    | 930.66                  | 0.00                    | 0.00                   | 0.00                  |  |
| 10,900.00                                | 90.00           | 179.08      | 9,697.00              | -1,049.19    | -1,145.51    | 1,030.66                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,000.00                                | 90.00           | 179.08      | 9,697.00              | -1,149.17    | -1,143.90    | 1,130.66                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,100.00                                | 90.00           | 179.08      | 9,697.00              | -1,249.16    | -1,142.29    | 1,230.66                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,200.00                                | 90.00           | 179.08      | 9,697.00              | -1,349.15    | -1,140.67    | 1,330.66                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,300.00                                | 90.00           | 179.08      | 9,697.00              | -1,449.13    | -1,139.06    | 1,430.66                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,400.00                                | 90.00           | 179.08      | 9,697.00              | -1,549.12    | -1,137.45    | 1,530.66                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,500.00                                | 90.00           | 179.08      | 9,697.00              | -1,649.11    | -1,135.84    | 1,630.66                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,600.00                                | 90.00           | 179.08      | 9,697.00              | -1,749.10    | -1,134.22    | 1,730.66                | 0.00                    | 0.00                   | 0.00                  |  |
| 11,700.00                                | 90.00           | 179.08      | 9,697.00              | -1,849.08    | -1,132.61    | 1,830.66                | 0.00                    | 0.00                   | 0.00                  |  |



## Legacy Directional Drilling

## Planning Report

|                  |                                     |                                     |  |
|------------------|-------------------------------------|-------------------------------------|--|
| <b>Database:</b> | EDM_WA                              | <b>Local Co-ordinate Reference:</b> | Well Forehand Ranch 22-27 State Com 801H |
| <b>Company:</b>  | 3R Operating, LLC                   | <b>TVD Reference:</b>               | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Project:</b>  | Eddy County, NM (NAD83)             | <b>MD Reference:</b>                | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Site:</b>     | Forehand Ranch 22-27                | <b>North Reference:</b>             | Grid                                     |
| <b>Well:</b>     | Forehand Ranch 22-27 State Com 801H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                                  |                                     |  |
| <b>Design:</b>   | Plan 1                              |                                     |  |

| Planned Survey                      |                 |             |                       |              |              |                         |                         |                        |                       |
|-------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)               | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 11,800.00                           | 90.00           | 179.08      | 9,697.00              | -1,949.07    | -1,131.00    | 1,930.66                | 0.00                    | 0.00                   | 0.00                  |
| 11,900.00                           | 90.00           | 179.08      | 9,697.00              | -2,049.06    | -1,129.39    | 2,030.66                | 0.00                    | 0.00                   | 0.00                  |
| 12,000.00                           | 90.00           | 179.08      | 9,697.00              | -2,149.04    | -1,127.77    | 2,130.66                | 0.00                    | 0.00                   | 0.00                  |
| 12,100.00                           | 90.00           | 179.08      | 9,697.00              | -2,249.03    | -1,126.16    | 2,230.66                | 0.00                    | 0.00                   | 0.00                  |
| 12,200.00                           | 90.00           | 179.08      | 9,697.00              | -2,349.02    | -1,124.55    | 2,330.66                | 0.00                    | 0.00                   | 0.00                  |
| 12,214.07                           | 90.00           | 179.08      | 9,697.00              | -2,363.09    | -1,124.32    | 2,344.73                | 0.00                    | 0.00                   | 0.00                  |
| <b>PP2 Start DLS 2.00 TFO 90.00</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,292.07                           | 90.00           | 180.64      | 9,697.00              | -2,441.08    | -1,124.12    | 2,422.72                | 2.00                    | 0.00                   | 2.00                  |
| <b>End of turn at 12292.07 MD</b>   |                 |             |                       |              |              |                         |                         |                        |                       |
| 12,300.00                           | 90.00           | 180.64      | 9,697.00              | -2,449.01    | -1,124.21    | 2,430.65                | 0.00                    | 0.00                   | 0.00                  |
| 12,400.00                           | 90.00           | 180.64      | 9,697.00              | -2,549.01    | -1,125.32    | 2,530.61                | 0.00                    | 0.00                   | 0.00                  |
| 12,500.00                           | 90.00           | 180.64      | 9,697.00              | -2,649.00    | -1,126.43    | 2,630.57                | 0.00                    | 0.00                   | 0.00                  |
| 12,600.00                           | 90.00           | 180.64      | 9,697.00              | -2,748.99    | -1,127.54    | 2,730.54                | 0.00                    | 0.00                   | 0.00                  |
| 12,700.00                           | 90.00           | 180.64      | 9,697.00              | -2,848.99    | -1,128.65    | 2,830.50                | 0.00                    | 0.00                   | 0.00                  |
| 12,800.00                           | 90.00           | 180.64      | 9,697.00              | -2,948.98    | -1,129.76    | 2,930.46                | 0.00                    | 0.00                   | 0.00                  |
| 12,900.00                           | 90.00           | 180.64      | 9,697.00              | -3,048.98    | -1,130.87    | 3,030.42                | 0.00                    | 0.00                   | 0.00                  |
| 13,000.00                           | 90.00           | 180.64      | 9,697.00              | -3,148.97    | -1,131.98    | 3,130.39                | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00                           | 90.00           | 180.64      | 9,697.00              | -3,248.96    | -1,133.09    | 3,230.35                | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00                           | 90.00           | 180.64      | 9,697.00              | -3,348.96    | -1,134.20    | 3,330.31                | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00                           | 90.00           | 180.64      | 9,697.00              | -3,448.95    | -1,135.31    | 3,430.28                | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00                           | 90.00           | 180.64      | 9,697.00              | -3,548.94    | -1,136.42    | 3,530.24                | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00                           | 90.00           | 180.64      | 9,697.00              | -3,648.94    | -1,137.53    | 3,630.20                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00                           | 90.00           | 180.64      | 9,697.00              | -3,748.93    | -1,138.64    | 3,730.17                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00                           | 90.00           | 180.64      | 9,697.00              | -3,848.93    | -1,139.75    | 3,830.13                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00                           | 90.00           | 180.64      | 9,697.00              | -3,948.92    | -1,140.86    | 3,930.09                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00                           | 90.00           | 180.64      | 9,697.00              | -4,048.91    | -1,141.97    | 4,030.06                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00                           | 90.00           | 180.64      | 9,697.00              | -4,148.91    | -1,143.08    | 4,130.02                | 0.00                    | 0.00                   | 0.00                  |
| 14,100.00                           | 90.00           | 180.64      | 9,697.00              | -4,248.90    | -1,144.19    | 4,229.98                | 0.00                    | 0.00                   | 0.00                  |
| 14,200.00                           | 90.00           | 180.64      | 9,697.00              | -4,348.90    | -1,145.30    | 4,329.95                | 0.00                    | 0.00                   | 0.00                  |
| 14,300.00                           | 90.00           | 180.64      | 9,697.00              | -4,448.89    | -1,146.41    | 4,429.91                | 0.00                    | 0.00                   | 0.00                  |
| 14,400.00                           | 90.00           | 180.64      | 9,697.00              | -4,548.88    | -1,147.52    | 4,529.87                | 0.00                    | 0.00                   | 0.00                  |
| 14,500.00                           | 90.00           | 180.64      | 9,697.00              | -4,648.88    | -1,148.63    | 4,629.84                | 0.00                    | 0.00                   | 0.00                  |
| 14,600.00                           | 90.00           | 180.64      | 9,697.00              | -4,748.87    | -1,149.74    | 4,729.80                | 0.00                    | 0.00                   | 0.00                  |
| 14,700.00                           | 90.00           | 180.64      | 9,697.00              | -4,848.86    | -1,150.85    | 4,829.76                | 0.00                    | 0.00                   | 0.00                  |
| 14,800.00                           | 90.00           | 180.64      | 9,697.00              | -4,948.86    | -1,151.96    | 4,929.72                | 0.00                    | 0.00                   | 0.00                  |
| 14,900.00                           | 90.00           | 180.64      | 9,697.00              | -5,048.85    | -1,153.06    | 5,029.69                | 0.00                    | 0.00                   | 0.00                  |
| 15,000.00                           | 90.00           | 180.64      | 9,697.00              | -5,148.85    | -1,154.17    | 5,129.65                | 0.00                    | 0.00                   | 0.00                  |
| 15,100.00                           | 90.00           | 180.64      | 9,697.00              | -5,248.84    | -1,155.28    | 5,229.61                | 0.00                    | 0.00                   | 0.00                  |
| 15,200.00                           | 90.00           | 180.64      | 9,697.00              | -5,348.83    | -1,156.39    | 5,329.58                | 0.00                    | 0.00                   | 0.00                  |
| 15,300.00                           | 90.00           | 180.64      | 9,697.00              | -5,448.83    | -1,157.50    | 5,429.54                | 0.00                    | 0.00                   | 0.00                  |
| 15,400.00                           | 90.00           | 180.64      | 9,697.00              | -5,548.82    | -1,158.61    | 5,529.50                | 0.00                    | 0.00                   | 0.00                  |
| 15,500.00                           | 90.00           | 180.64      | 9,697.00              | -5,648.82    | -1,159.72    | 5,629.47                | 0.00                    | 0.00                   | 0.00                  |
| 15,600.00                           | 90.00           | 180.64      | 9,697.00              | -5,748.81    | -1,160.83    | 5,729.43                | 0.00                    | 0.00                   | 0.00                  |
| 15,700.00                           | 90.00           | 180.64      | 9,697.00              | -5,848.80    | -1,161.94    | 5,829.39                | 0.00                    | 0.00                   | 0.00                  |
| 15,800.00                           | 90.00           | 180.64      | 9,697.00              | -5,948.80    | -1,163.05    | 5,929.36                | 0.00                    | 0.00                   | 0.00                  |
| 15,900.00                           | 90.00           | 180.64      | 9,697.00              | -6,048.79    | -1,164.16    | 6,029.32                | 0.00                    | 0.00                   | 0.00                  |
| 16,000.00                           | 90.00           | 180.64      | 9,697.00              | -6,148.78    | -1,165.27    | 6,129.28                | 0.00                    | 0.00                   | 0.00                  |
| 16,100.00                           | 90.00           | 180.64      | 9,697.00              | -6,248.78    | -1,166.38    | 6,229.25                | 0.00                    | 0.00                   | 0.00                  |
| 16,200.00                           | 90.00           | 180.64      | 9,697.00              | -6,348.77    | -1,167.49    | 6,329.21                | 0.00                    | 0.00                   | 0.00                  |
| 16,300.00                           | 90.00           | 180.64      | 9,697.00              | -6,448.77    | -1,168.60    | 6,429.17                | 0.00                    | 0.00                   | 0.00                  |
| 16,400.00                           | 90.00           | 180.64      | 9,697.00              | -6,548.76    | -1,169.71    | 6,529.13                | 0.00                    | 0.00                   | 0.00                  |
| 16,500.00                           | 90.00           | 180.64      | 9,697.00              | -6,648.75    | -1,170.82    | 6,629.10                | 0.00                    | 0.00                   | 0.00                  |
| 16,600.00                           | 90.00           | 180.64      | 9,697.00              | -6,748.75    | -1,171.93    | 6,729.06                | 0.00                    | 0.00                   | 0.00                  |
| 16,700.00                           | 90.00           | 180.64      | 9,697.00              | -6,848.74    | -1,173.04    | 6,829.02                | 0.00                    | 0.00                   | 0.00                  |





## Legacy Directional Drilling

## Planning Report

|                  |                                     |                                     |  |
|------------------|-------------------------------------|-------------------------------------|--|
| <b>Database:</b> | EDM_WA                              | <b>Local Co-ordinate Reference:</b> | Well Forehand Ranch 22-27 State Com 801H |
| <b>Company:</b>  | 3R Operating, LLC                   | <b>TVD Reference:</b>               | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Project:</b>  | Eddy County, NM (NAD83)             | <b>MD Reference:</b>                | GL 3155 + 26.5' KB @ 3181.50usft         |
| <b>Site:</b>     | Forehand Ranch 22-27                | <b>North Reference:</b>             | Grid                                     |
| <b>Well:</b>     | Forehand Ranch 22-27 State Com 801H | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                                  |                                     |  |
| <b>Design:</b>   | Plan 1                              |                                     |  |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 16,800.00             | 90.00           | 180.64      | 9,697.00              | -6,948.74    | -1,174.15    | 6,928.99                | 0.00                    | 0.00                   | 0.00                  |
| 16,900.00             | 90.00           | 180.64      | 9,697.00              | -7,048.73    | -1,175.26    | 7,028.95                | 0.00                    | 0.00                   | 0.00                  |
| 17,000.00             | 90.00           | 180.64      | 9,697.00              | -7,148.72    | -1,176.37    | 7,128.91                | 0.00                    | 0.00                   | 0.00                  |
| 17,100.00             | 90.00           | 180.64      | 9,697.00              | -7,248.72    | -1,177.48    | 7,228.88                | 0.00                    | 0.00                   | 0.00                  |
| 17,187.53             | 90.00           | 180.64      | 9,697.00              | -7,336.24    | -1,178.45    | 7,316.37                | 0.00                    | 0.00                   | 0.00                  |
| LTP/BHL at 17187.53   |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Targets  |               |              |            |              |              |                 |                |           |             |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name   | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude  | Longitude   |
| - hit/miss target   |               |              |            |              |              |                 |                |           |             |
| - Shape   |               |              |            |              |              |                 |                |           |             |
| LTP/BHL - Forehand Ranch 22-27 State Com 801H   | 0.00          | 0.00         | 9,697.00   | -7,336.24    | -1,178.45    | 461,723.09      | 587,412.56     | 32.269264 | -104.184261 |
| - plan hits target center   |               |              |            |              |              |                 |                |           |             |
| - Point   |               |              |            |              |              |                 |                |           |             |
| FTP/PP1 - Forehand Ranch 22-27 State Com 801H   | 0.00          | 0.00         | 9,697.00   | 297.27       | -1,167.23    | 469,356.60      | 587,423.78     | 32.290247 | -104.184191 |
| - plan misses target center by 237.33usft at 9676.88usft MD (9529.57 TVD, 129.09 N, -1164.52 E) |               |              |            |              |              |                 |                |           |             |
| - Point   |               |              |            |              |              |                 |                |           |             |
| PP2 - Forehand Ranch 22-27 State Com 801H   | 0.00          | 0.00         | 9,697.00   | -2,363.09    | -1,124.32    | 466,696.24      | 587,466.69     | 32.282934 | -104.184064 |
| - plan hits target center   |               |              |            |              |              |                 |                |           |             |
| - Point   |               |              |            |              |              |                 |                |           |             |

| Formations            |                       |                      |           |         |                   |  |
|-----------------------|-----------------------|----------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name                 | Lithology | Dip (°) | Dip Direction (°) |  |
| 597.00                | 597.00                | Castille             |           |         |                   |  |
| 2,190.74              | 2,187.00              | Lamar                |           |         |                   |  |
| 2,190.74              | 2,187.00              | Delaware             |           |         |                   |  |
| 5,643.06              | 5,587.00              | Bone Spring          |           |         |                   |  |
| 6,729.52              | 6,657.00              | 1st Bone Spring Sand |           |         |                   |  |
| 6,947.83              | 6,872.00              | 2nd Bone Spring Carb |           |         |                   |  |
| 7,303.22              | 7,222.00              | 2nd Bone Spring Sand |           |         |                   |  |
| 7,465.68              | 7,382.00              | 3rd Bone Spring Carb |           |         |                   |  |
| 8,763.92              | 8,662.00              | 3rd Bone Spring Sand |           |         |                   |  |
| 9,139.28              | 9,037.00              | Wolfcamp XY          |           |         |                   |  |
| 9,274.34              | 9,172.00              | Wolfcamp A (Z Eq.)   |           |         |                   |  |
| 9,756.95              | 9,582.00              | Wolfcamp B           |           |         |                   |  |
| 10,126.33             | 9,697.00              | Target CL            |           |         |                   |  |



Legacy Directional Drilling

Planning Report

|           |                                     |                              |  |
|-----------|-------------------------------------|------------------------------|--|
| Database: | EDM_WA                              | Local Co-ordinate Reference: | Well Forehand Ranch 22-27 State Com 801H |
| Company:  | 3R Operating, LLC                   | TVD Reference:               | GL 3155 + 26.5' KB @ 3181.50usft         |
| Project:  | Eddy County, NM (NAD83)             | MD Reference:                | GL 3155 + 26.5' KB @ 3181.50usft         |
| Site:     | Forehand Ranch 22-27                | North Reference:             | Grid                                     |
| Well:     | Forehand Ranch 22-27 State Com 801H | Survey Calculation Method:   | Minimum Curvature                        |
| Wellbore: | OH                                  |                              |  |
| Design:   | Plan 1                              |                              |  |

| Plan Annotations            |                             |                   |                 |                              |
|-----------------------------|-----------------------------|-------------------|-----------------|------------------------------|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                      |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                              |
| 1,500.00                    | 1,500.00                    | 0.00              | 0.00            | Start Nudge Build 1.50       |
| 2,165.81                    | 2,162.44                    | 14.29             | -56.09          | 9.99° at 2165.81 MD          |
| 8,526.97                    | 8,427.21                    | 286.56            | -1,125.16       | Start Drop -2.00             |
| 9,026.32                    | 8,924.04                    | 297.27            | -1,167.23       | Vertical at 9026.32 MD       |
| 9,226.33                    | 9,124.04                    | 297.27            | -1,167.23       | KOP Start Build 10.00        |
| 10,126.33                   | 9,697.00                    | -275.61           | -1,157.99       | LP 90° at 10126.33 MD        |
| 12,214.07                   | 9,697.00                    | -2,363.09         | -1,124.32       | PP2 Start DLS 2.00 TFO 90.00 |
| 12,292.07                   | 9,697.00                    | -2,441.08         | -1,124.12       | End of turn at 12292.07 MD   |
| 17,187.53                   | 9,697.00                    | -7,336.24         | -1,178.45       | LTP/BHL at 17187.53          |

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** 3R Operating LLC **OGRID:** 331569 **Date:** 09 / 22 / 25

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name    | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|--------------|-----|-------|----------|-----------------------|-----------------------|----------------------------------|
| See attached |     |       |          |                       |                       |                                  |
|              |     |       |          |                       |                       |                                  |

**IV. Central Delivery Point Name:** Forehand 22 27 Production Facility [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name    | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|--------------|-----|-----------|-----------------|------------------------------|------------------------|-----------------------|
| See attached |     |           |                 |                              |                        |                       |
|              |     |           |                 |                              |                        |                       |

**VI. Separation Equipment:** ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

## **Section 2 – Enhanced Plan**

### **EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

#### **IX. Anticipated Natural Gas Production:**

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF |
|------|-----|--|--|
|      |     |  |  |
|      |     |  |  |

#### **X. Natural Gas Gathering System (NGGS):**

| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity of System Segment Tie-in |
|----------|--------|-----------------|----------------------------------|---|
|          |        |                 |                                  |   |
|          |        |                 |                                  |   |

**XI. Map.** ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** ☒ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### **Section 3 - Certifications**

**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

***If Operator checks this box, Operator will select one of the following:***

**Well Shut-In.** ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### **Section 4 - Notices**

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.



I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

|  |
|--|
| Signature: <i>Austin Tramell</i>   |
| Printed Name: Austin Tramell   |
| Title: Director Environmental & Regulatory   |
| E-mail Address: atramell@3roperating.com   |
| Date: 09/22/2025   |
| Phone: 832-810-1037  |
| <b>OIL CONSERVATION DIVISION</b><br><b>(Only applicable when submitted as a standalone form)</b> |
| Approved By:   |
| Title:   |
| Approval Date:   |
| Conditions of Approval:  |

## VI. Separation Equipment

Separation equipment will be sized by construction engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing modeling software to ensure adequate capacity for anticipated production volumes and conditions. Production composition and the volumes will be utilized as inputs to a process model which predicts relative amounts of gas, oil and water throughout the process. The high-volume case will be used to size equipment, piping and instrumentation.

Each well has a dedicated 3-phase separator and gas from that separator is taken directly to gas sales. Facility piping and pipeline will be sized to allow peak volumes to flow with minimal pressure loss and deliver to the midstream gatherer at an acceptable pressure. Water will be conveyed directly to tankage. Oil from 3-phase separators will be conveyed to a heated separator for enhanced liquid-liquid separation and degassing. Vapors from the heater treater are routed to flare. Oil and water storage tanks vapor outlets utilize a closed vent vapor system to ensure all working & breathing and flashing losses are routed to the flare which is sized to accommodate peak expected production volume. Flash volumes are estimated using the high-volume case.

## VII. Operational Practices

The operator will ensure pipeline connectivity before producing hydrocarbons and will operate a closed vent vapor capture system that is designed to capture all associated and evolved gas during normal operation. Venting will only occur during maintenance activities or equipment failure. The operator may utilize the following from Section 3 for its operations to minimize flaring:

- A. The operator will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. The operator will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, compression will be added to deliver volumes that are produced. Well production may also be curtailed to manage the flow of gas and not overrun compression.
- B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations.
- C. During completion operations any natural gas brought to surface will be flared. Immediately following the finish of completion operations, all well flowback will be directed to permanent separation equipment. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards; however, if natural gas does not meet gathering pipeline quality specifications, the operator will flare the natural gas for up to 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. The operator will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
- D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(l) through (4). If there is no adequate takeaway for the separator gas, well(s) will be curtailed until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be measured using a total flow meter and reported appropriately.
- E. The operator will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(l) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the well and storage tanks unless otherwise approved by the division. The operator will conduct AVO inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.
- F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. The operator will install equipment to measure the volume of natural gas flared from existing process piping, or a flowline piped from equipment such as high-

pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, the operator will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

#### **VIII. Best Management Practices**

The operator utilizes automated engineering controls included in facility design to minimize venting and flaring. Additionally, operator's SOP support the minimization of flare and venting.

If the main gas outlet becomes unavailable and pressure increases on the outlet sales line, produced gas will be routed directly to the facility flare. The facility control system will alert personnel to the need for maintenance and appropriate response to the temporary flaring event. The facility design includes a closed vent vapor capture system to route flash from the heater treater and tanks to the flare. For maintenance activities, the operator will utilize the facility flare to blowdown equipment and piping whenever practical to minimize venting.