

Santa Fe Main Office  
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General Information  
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State of New Mexico  
Energy, Minerals and Natural Resources

Form C-103  
Revised July 18, 2013

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

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

|                                                                                                                                                                                                                                                                                                                                                 |  |                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)<br>1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> |  | WELL API NO.<br>30-015-55716                                                                        |
| 2. Name of Operator<br>Permian Resources Operating LLC                                                                                                                                                                                                                                                                                          |  | 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 3. Address of Operator<br>300 N Marienfield St, Ste 1000, Midland, TX 79701                                                                                                                                                                                                                                                                     |  | 6. State Oil & Gas Lease No.                                                                        |
| 4. Well Location<br>Unit Letter <u>E</u> : <u>1712</u> feet from the <u>North</u> line and <u>532</u> feet from the <u>West</u> line<br>Section <u>33</u> Township <u>21S</u> Range <u>27E</u> NMPM County <u>Eddy</u>                                                                                                                          |  | 7. Lease Name or Unit Agreement Name<br>Fred State Com                                              |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br>3117'                                                                                                                                                                                                                                                                                     |  | 8. Well Number 424H                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                 |  | 9. OGRID Number 372165                                                                              |
|                                                                                                                                                                                                                                                                                                                                                 |  | 10. Pool name or Wildcat (74160)<br>Carlsbad; Wolfcamp, East (GAS)                                  |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| NOTICE OF INTENTION TO:                        |                                                  | SUBSEQUENT REPORT OF:                            |                                          |
|------------------------------------------------|--------------------------------------------------|--------------------------------------------------|------------------------------------------|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/>        | REMEDIAL WORK <input type="checkbox"/>           | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/>   | CHANGE PLANS <input checked="" type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/>         |
| PULL OR ALTER CASING <input type="checkbox"/>  | MULTIPLE COMPL <input type="checkbox"/>          | CASING/CEMENT JOB <input type="checkbox"/>       |                                          |
| DOWNHOLE COMMINGLE <input type="checkbox"/>    |                                                  |                                                  |                                          |
| CLOSED-LOOP SYSTEM <input type="checkbox"/>    |                                                  |                                                  |                                          |
| OTHER: <input type="checkbox"/>                |                                                  | OTHER: <input type="checkbox"/>                  |                                          |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Permian Resources Operating, LLC requests permission to make the following changes to the original APD: Name Change, FTP/LTP/BHL Change, Total Depth (TVD/MD).

SHL Change:

From: 1731' FSL, 574' FWL, L-Sec 33, T21S, R27E

To: 1712' FNL, 532' FWL, M-Sec 36, T21S, R26E

FTP Change:

From: 330' FSL, 330' FEL, P-Sec 32, T21S, R27E

To: 330' FSL, 100' FEL, P-Sec 32, T21S, R27E

LTP Change:

From: 330' FSL, 330' FWL, M-Sec 32, T21S, R27E

To: 330' FSL, 100' FWL, M-Sec 36, T21S, R26E

BHL Change:

From: 330' FSL, 330' FWL, M-Sec 32, T21S, R27E

To: 330' FSL, 100' FWL, M-Sec 36, T21S, R26E

Change TD/MD From: 9300'TVD, 24,814'MD

Change TD/MD To: 9300'TVD, 23,393'MD

Updated Drilling Program reflecting casing / cement / mud circulation depth changes attached with the inclusion of a bradenhead squeeze variance request on the 2<sup>nd</sup> Intermediate string.

Attachments:

1. Updated C102
2. Drilling Program (4-String Capitan Reef Design. R-111-Q Not Required)
3. Directional Plan & Anticollision Report

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Cassie Evans TITLE Regulatory Supervisor DATE 4/3/25

Type or print name Cassie Evans E-mail address: Cassie.Evans@permianres.com PHONE: 432-313-1732

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

|                                                                 |                                                                                                            |                                     |                                                       |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------------------------|
| <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>30-015-55715</b>                                                                                                                      | Pool Code<br><b>74160</b>                                | Pool Name<br><b>Carlsbad; Wolfcamp, East (GAS)</b>                                                                                                     |
| Property Code                                                                                                                                          | Property Name<br><b>FRED STATE COM</b>                   | Well Number<br><b>423H</b>                                                                                                                             |
| OGRID No.<br><b>372165</b>                                                                                                                             | Operator Name<br><b>PERMIAN RESOURCES OPERATING, LLC</b> | Ground Level Elevation<br><b>3,117'</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>E</b> | Section<br><b>33</b> | Township<br><b>21S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>1,712' FNL</b> | Ft. from E/W<br><b>502' FWL</b> | Latitude<br><b>32.438895°</b> | Longitude<br><b>-104.201874°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

## Bottom Hole Location

|                |                      |                        |                     |     |                                   |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>L</b> | Section<br><b>36</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>1,695' FSL</b> | Ft. from E/W<br><b>100' FWL</b> | Latitude<br><b>32.433318°</b> | Longitude<br><b>-104.254183°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

|                                   |                                          |                                          |                                                                                                               |                                     |
|-----------------------------------|------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Dedicated Acres<br><b>1908.20</b> | Infill or Defining Well<br><b>Infill</b> | Defining Well API<br><b>30-015-55714</b> | Overlapping Spacing Unit (Y/N)<br><b>N</b>                                                                    | Consolidation Code<br><b>C, NSL</b> |
| Order Numbers. <b>TBD</b>         |                                          |                                          | Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                     |

## Kick Off Point (KOP)

|                |                      |                        |                     |     |                                   |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>E</b> | Section<br><b>33</b> | Township<br><b>21S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>1,712' FNL</b> | Ft. from E/W<br><b>502' FWL</b> | Latitude<br><b>32.438895°</b> | Longitude<br><b>-104.201874°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

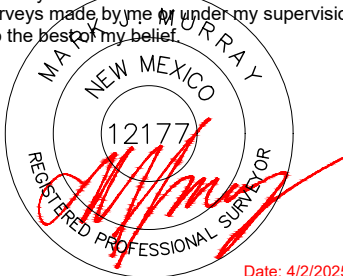
## First Take Point (FTP)

|                |                      |                        |                     |     |                                   |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>I</b> | Section<br><b>32</b> | Township<br><b>21S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>1,650' FSL</b> | Ft. from E/W<br><b>100' FEL</b> | Latitude<br><b>32.433659°</b> | Longitude<br><b>-104.203801°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

## Last Take Point (LTP)

|                |                      |                        |                     |     |                                   |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>L</b> | Section<br><b>36</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>1,695' FSL</b> | Ft. from E/W<br><b>100' FWL</b> | Latitude<br><b>32.433318°</b> | Longitude<br><b>-104.254183°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

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

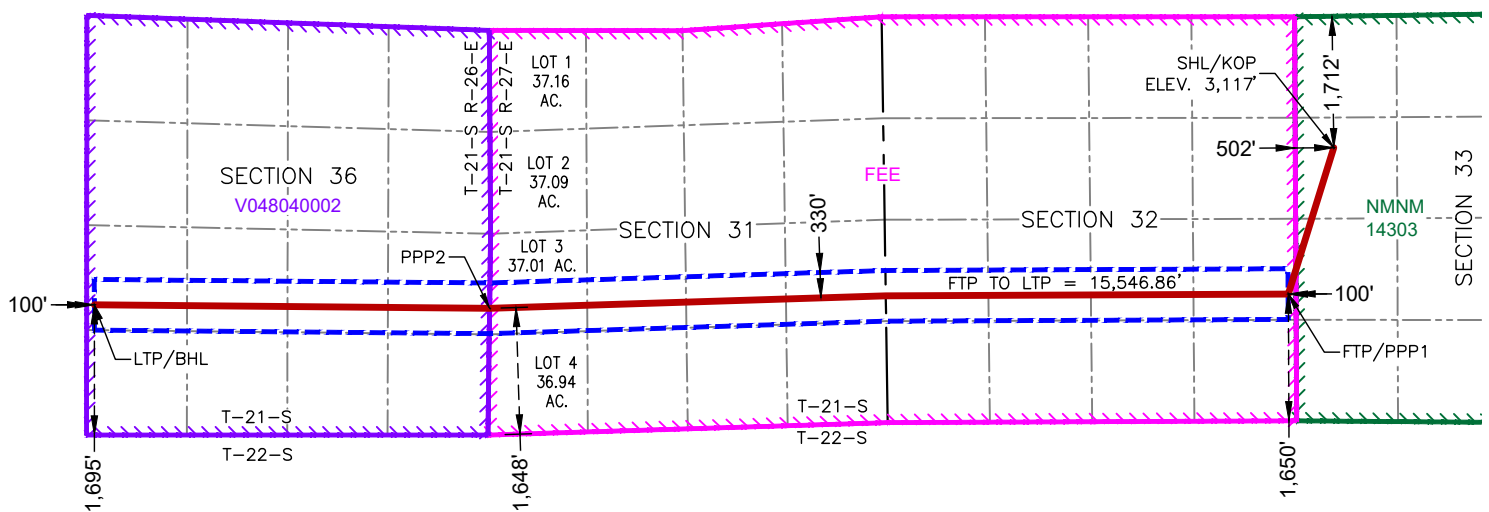
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                                                                                                                                                                                                                                                                                                                                                                   |                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <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. |                       | <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: 4/2/2025 |                                   |
| Signature<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date<br><b>4/3/25</b> | Signature and Seal of Professional Surveyor                                                                                                                                                                                                                                                                                                                       |                                   |
| Printed Name<br><b>Cassie Evans</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | Certificate Number<br><b>12177</b>                                                                                                                                                                                                                                                                                                                                | Date of Survey<br><b>4/2/2025</b> |
| Email Address <b>Cassie.Evans@permianres.com</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.

**FRED STATE COM 423H**

**SURFACE HOLE LOCATION  
& KICK-OFF POINT  
1,712' FNL & 502' FWL  
ELEV. = 3,117'**

NAD 83 X = 581,893.09'  
NAD 83 Y = 523,426.07'  
NAD 83 LAT = 32.438895°  
NAD 83 LONG = -104.201874°  
NAD 27 X = 540,711.96'  
NAD 27 Y = 523,365.97'  
NAD 27 LAT = 32.438777°  
NAD 27 LONG = -104.201370°

**FIRST TAKE POINT &  
PENETRATION POINT 1  
1,650' FSL & 100' FEL**

NAD 83 X = 581,300.97'  
NAD 83 Y = 521,520.40'  
NAD 83 LAT = 32.433659°  
NAD 83 LONG = -104.203801°  
NAD 27 X = 540,119.81'  
NAD 27 Y = 521,460.35'  
NAD 27 LAT = 32.433541°  
NAD 27 LONG = -104.203297°

**PENETRATION POINT 2  
1,648' FSL & 0' FWL**

NAD 83 X = 570,902.39'  
NAD 83 Y = 521,335.57'  
NAD 83 LAT = 32.433181°  
NAD 83 LONG = -104.237506°  
NAD 27 X = 529,721.32'  
NAD 27 Y = 521,275.63'  
NAD 27 LAT = 32.433063°  
NAD 27 LONG = -104.237001°

**LAST TAKE POINT &  
BOTTOM HOLE LOCATION  
1,695' FSL & 100' FWL**

NAD 83 X = 565,756.92'  
NAD 83 Y = 521,381.25'  
NAD 83 LAT = 32.433318°  
NAD 83 LONG = -104.254183°  
NAD 27 X = 524,575.92'  
NAD 27 Y = 521,321.38'  
NAD 27 LAT = 32.433201°  
NAD 27 LONG = -104.253678°

## Permian Resources - Fred State Com 423H

## 1. Geologic Formations

| Formation            | Lithology                 | Elevation | TVD  | Target |
|----------------------|---------------------------|-----------|------|--------|
| Rustler              | Sandstone                 | 2917      | 230  | No     |
| Top of Salt          | Salt                      | 2667      | 480  | No     |
| Tansill              | Sandstone                 | 2517      | 630  | No     |
| Yates                | Anhydrite/Shale           | 2248      | 899  | No     |
| Seven Rivers         | Limestone                 | 1997      | 1150 | No     |
| Capitan              | Sandstone                 | 1917      | 1230 | No     |
| Delaware Sands       | Sandstone                 | 527       | 2620 | No     |
| Brushy Canyon        | Sandstone                 | -1713     | 4860 | No     |
| Bone Spring Lime     | Limestone/Shale           | -1933     | 5080 | No     |
| 1st Bone Spring Sand | Sandstone/Limestone/Shale | -3146     | 6293 | No     |
| 2nd Bone Spring Sand | Sandstone/Limestone/Shale | -5913     | 9060 | No     |
| 3rd Bone Spring Sand | Sandstone/Limestone/Shale | -5258     | 8405 | No     |
| Wolfcamp             | Shale                     | -5588     | 8735 | Yes    |

## 2. Blowout Prevention

| BOP installed and tested before drilling which hole? | Size?   | Min. Required WP | Type       | x | Tested to: |
|------------------------------------------------------|---------|------------------|------------|---|------------|
| 12.25                                                | 13-5/8" | 5M               | Annular    | x | 2500 psi   |
|                                                      |         |                  | Blind Ram  | x | 5000 psi   |
|                                                      |         |                  | Pipe Ram   | x |            |
|                                                      |         |                  | Double Ram |   |            |
|                                                      |         |                  | Other*     |   |            |
| 9.875                                                | 13-5/8" | 5M               | Annular    | x | 2500 psi   |
|                                                      |         |                  | Blind Ram  | x | 5000 psi   |
|                                                      |         |                  | Pipe Ram   | x |            |
|                                                      |         |                  | Double Ram |   |            |
|                                                      |         |                  | Other*     |   |            |
| 7.875                                                | 13-5/8" | 5M               | Annular    | x | 2500 psi   |
|                                                      |         |                  | Blind Ram  | x | 5000 psi   |
|                                                      |         |                  | Pipe Ram   | x |            |
|                                                      |         |                  | Double Ram |   |            |
|                                                      |         |                  | Other*     |   |            |

**Equipment:** BOPE will meet all requirements for above listed system per 43 CFR 3172. BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional, tested, and will meet all requirements per 43 CFR 3172. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing of the surface x intermediate annulus without breaking the connection between the BOP & wellhead. A variance is requested to utilize a flexible choke line (flexhose) from the BOP to choke manifold.

**Requesting Variance? YES**

**Variance request: Multibowl Wellhead, Flexhose, Breaktesting, Offline Cementing Variances. Attachments in Section 8.**

**Testing Procedure:** Operator requests to ONLY test broken pressure seals per API Standard 53 and the attachments in Section 8. The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed, b. whenever any seal subject to test pressure is broken, c. following related repairs, d. at 21-day intervals. Testing of the ram type preventer(s) and annual type preventer(s) shall be tested per 43 CFR 3172. The BOPE configuration, choke manifold layout, and accumulator system will be in compliance with 43 CFR 3172. Bleed lines will discharge 100' from wellhead in non-H2S scenarios and 150' from wellhead in H2S scenarios.

Choke Diagram Attachment: 5M Choke Manifold

BOP Diagram Attachment: BOP Schematics

**3. Casing**

| String                | Hole Size | Casing Size | Top  | Bottom | Top TVD | Bottom TVD | Length | Grade   | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------------------|-----------|-------------|------|--------|---------|------------|--------|---------|--------|------------|-------------|----------|---------------|----------|--------------|---------|
| Surface               | 17.5      | 13.375      | 0    | 300    | 0       | 300        | 300    | J55     | 54.5   | BTC        | 7.62        | 8.26     | Dry           | 7.81     | Dry          | 7.33    |
| Intermediate 1        | 12.25     | 10.75       | 0    | 790    | 0       | 790        | 790    | J55     | 45.5   | BTC        | 12.14       | 3.36     | Dry           | 7.82     | Dry          | 5.26    |
| Intermediate 2        | 9.875     | 8.625       | 0    | 2620   | 0       | 2620       | 2620   | P110 HS | 32     | MO-FXL     | 5.51        | 2.47     | Dry           | 4.29     | Dry          | 6.22    |
| Production            | 7.875     | 5.5         | 0    | 9465   | 0       | 9300       | 9465   | P110RY  | 20     | GeoConn    | 1.55        | 1.62     | Dry           | 1.91     | Dry          | 1.91    |
| Production            | 7.875     | 5.5         | 9465 | 24911  | 9300    | 9300       | 15446  | P110RY  | 20     | GeoConn    | 1.55        | 1.62     | Dry           | 1.91     | Dry          | 1.91    |
| BLM Min Safety Factor |           |             |      |        |         |            |        |         |        |            | 1.125       | 1        |               | 1.6      |              | 1.6     |

Non API casing spec sheets and casing design assumptions attached.

**4. Cement**

| String         | Lead/Tail | Top MD | Bottom MD | Quantity (sx) | Yield | Density | Cu Ft | Excess % | Cement Type | Additives                                       |
|----------------|-----------|--------|-----------|---------------|-------|---------|-------|----------|-------------|-------------------------------------------------|
| Surface        | Tail      | 0      | 300       | 240           | 1.34  | 14.8    | 320   | 50%      | Class C     | Accelerator                                     |
| Intermediate 1 | Lead      | 0      | 630       | 100           | 1.88  | 12.9    | 170   | 50%      | Class C     | EconoCem-HLC + 5% Salt + 5% Kol-Seal            |
| Intermediate 1 | Tail      | 630    | 790       | 40            | 1.34  | 14.8    | 50    | 50%      | Class C     | Retarder                                        |
| Intermediate 2 | Lead      | 0      | 2090      | 130           | 2.96  | 11      | 360   | 50%      | Class C     | EconoCem-HLC + 5% Salt + 5% Kol-Seal            |
| Intermediate 2 | Tail      | 2090   | 2620      | 70            | 1.33  | 14.8    | 90    | 25%      | Class C     | Salt                                            |
| Production     | Lead      | 2120   | 9093      | 690           | 2.41  | 11.5    | 1660  | 40%      | Class H     | POZ, Extender, Fluid Loss, Dispersant, Retarder |
| Production     | Tail      | 9093   | 24911     | 1990          | 1.73  | 12.5    | 3430  | 25%      | Class H     | POZ, Extender, Fluid Loss, Dispersant, Retarder |

Permian Resources requests to pump a two-stage cement job on the 8-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Cherry Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + Bentonite Gel (2.30 yld, 12.9 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

Permian Resources will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

Permian Resources will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Permian Resources requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the surface casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

Permian Resources requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

**5. Circulating Medium**

**Mud System Type:** Closed

**Will an air or gas system be used:** No

-----  
**Describe what will be on location to control well or mitigate oter conditions :** Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

**Describe the mud monitoring system utilized:** Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

**Cuttings Volume: 9420 Cu Ft**

| Circulating Medium Table |              |                |            |            |
|--------------------------|--------------|----------------|------------|------------|
| Top Depth                | Bottom Depth | Mud Type       | Min Weight | Max Weight |
| 0                        | 300          | Spud Mud       | 8.6        | 9.5        |
| 300                      | 790          | Salt Saturated | 10         | 10         |
| 790                      | 2620         | Fresh Water    | 8.6        | 9.5        |
| 2620                     | 9465         | Oil Based Mud  | 9          | 10         |



6. Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will utilize MWD/LWD from intermediate hole to TD of the well.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY

Coring operation description for the well:

N/A

7. Pressure

|                                                     |      |     |
|-----------------------------------------------------|------|-----|
| Anticipated Bottom Hole Pressure                    | 4840 | psi |
| Anticipated Surface Pressure                        | 2790 | psi |
| Anticipated Bottom Hole Temperature                 | 149  | °F  |
| Anticipated Abnormal pressure, temp, or geo hazards | No   |     |

# **PERMIAN**

## **R E S O U R C E S**

### **NEW MEXICO**

**(SP) EDDY**

**FRED PROJECT**

**FRED STATE COM 423H**

**OWB**

**Plan: PWP0**

### **Standard Planning Report - Geographic**

**03 April, 2025**

# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | (SP) EDDY                 |                      |                |
| <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                  |          | FRED PROJECT |                 |            |                   |
|-----------------------|----------|--------------|-----------------|------------|-------------------|
| Site Position:        |          | Northing:    | 523,162.55 usft | Latitude:  | 32° 26' 17.407 N  |
| From:                 | Map      | Easting:     | 582,566.25 usft | Longitude: | 104° 11' 58.894 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 "       |            |                   |

| Well                 | FRED STATE COM 423H |          |                     |                 |               |                  |
|----------------------|---------------------|----------|---------------------|-----------------|---------------|------------------|
| Well Position        | +N/-S               | 0.0 usft | Northing:           | 523,426.07 usft | Latitude:     | 32° 26' 20.023 N |
|                      | +E/-W               | 0.0 usft | Easting:            | 581,893.09 usft | Longitude:    | 104° 12' 6.746 W |
| Position Uncertainty |                     | 0.0 usft | Wellhead Elevation: | usft            | Ground Level: | 3,117.0 usft     |
| Grid Convergence:    |                     | 0.07 °   |                     |                 |               |                  |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OWB               |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF200510        | 12/31/2009         | 8.05                   | 60.33                | 48,853.97803583            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | PWP0                           |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PROTOTYPE           | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.0                            | 0.0                 | 0.0                  | 262.78               |

|                                 |                        |                          |                          |                |
|---------------------------------|------------------------|--------------------------|--------------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 4/3/2025                 |                          |                |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>         | <b>Remarks</b> |
| 1                               | 0.0                    | 24,911.1 PWP0 (OWB)      | MWD                      |                |
|                                 |                        |                          | OWSG_Rev2_ MWD - Standal |                |

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| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| 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           |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 1,000.0               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 1,800.6               | 16.01           | 197.26      | 1,790.2               | -106.1       | -33.0        | 2.00                    | 2.00                   | 0.00                  | 197.26  |                  |
| 8,229.6               | 16.01           | 197.26      | 7,969.8               | -1,799.5     | -559.1       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 9,030.2               | 0.00            | 0.00        | 8,760.0               | -1,905.7     | -592.1       | 2.00                    | -2.00                  | 0.00                  | 180.00  |                  |
| 9,092.7               | 0.00            | 0.00        | 8,822.5               | -1,905.7     | -592.1       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 9,842.6               | 90.00           | 268.98      | 9,300.0               | -1,914.2     | -1,069.5     | 12.00                   | 12.00                  | -12.14                | 268.98  |                  |
| 19,765.4              | 90.00           | 268.98      | 9,300.0               | -2,090.5     | -10,990.7    | 0.00                    | 0.00                   | 0.00                  | 0.00    | PP2-FSC 423H     |
| 19,842.3              | 90.00           | 270.52      | 9,300.0               | -2,090.8     | -11,067.6    | 2.00                    | 0.00                   | 2.00                  | 89.99   |                  |
| 24,911.1              | 90.00           | 270.52      | 9,300.0               | -2,044.8     | -16,136.2    | 0.00                    | 0.00                   | 0.00                  | 0.00    | LTP/BHL-FSC 423H |

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| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey                        |                 |             |                       |              |              |                     |                    |                  |                   |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|-------------------|
| Measured Depth (usft)                 | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude         |
| 0.0                                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| 100.0                                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| 200.0                                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| 300.0                                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| 400.0                                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| 500.0                                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| 600.0                                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| 700.0                                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| 800.0                                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| 900.0                                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| 1,000.0                               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 523,426.07          | 581,893.09         | 32° 26' 20.023 N | 104° 12' 6.746 W  |
| <b>Start Build 2.00</b>               |                 |             |                       |              |              |                     |                    |                  |                   |
| 1,100.0                               | 2.00            | 197.26      | 1,100.0               | -1.7         | -0.5         | 523,424.41          | 581,892.58         | 32° 26' 20.006 N | 104° 12' 6.752 W  |
| 1,200.0                               | 4.00            | 197.26      | 1,199.8               | -6.7         | -2.1         | 523,419.41          | 581,891.02         | 32° 26' 19.957 N | 104° 12' 6.770 W  |
| 1,300.0                               | 6.00            | 197.26      | 1,299.5               | -15.0        | -4.7         | 523,411.08          | 581,888.44         | 32° 26' 19.874 N | 104° 12' 6.800 W  |
| 1,400.0                               | 8.00            | 197.26      | 1,398.7               | -26.6        | -8.3         | 523,399.45          | 581,884.82         | 32° 26' 19.759 N | 104° 12' 6.843 W  |
| 1,500.0                               | 10.00           | 197.26      | 1,497.5               | -41.6        | -12.9        | 523,384.51          | 581,880.18         | 32° 26' 19.611 N | 104° 12' 6.897 W  |
| 1,600.0                               | 12.00           | 197.26      | 1,595.6               | -59.8        | -18.6        | 523,366.29          | 581,874.52         | 32° 26' 19.431 N | 104° 12' 6.963 W  |
| 1,700.0                               | 14.00           | 197.26      | 1,693.1               | -81.3        | -25.2        | 523,344.81          | 581,867.84         | 32° 26' 19.219 N | 104° 12' 7.041 W  |
| 1,800.6                               | 16.01           | 197.26      | 1,790.2               | -106.1       | -33.0        | 523,319.95          | 581,860.12         | 32° 26' 18.973 N | 104° 12' 7.132 W  |
| <b>Start 6429.0 hold at 1800.6 MD</b> |                 |             |                       |              |              |                     |                    |                  |                   |
| 1,900.0                               | 16.01           | 197.26      | 1,885.8               | -132.3       | -41.1        | 523,293.75          | 581,851.98         | 32° 26' 18.714 N | 104° 12' 7.227 W  |
| 2,000.0                               | 16.01           | 197.26      | 1,981.9               | -158.7       | -49.3        | 523,267.41          | 581,843.80         | 32° 26' 18.453 N | 104° 12' 7.323 W  |
| 2,100.0                               | 16.01           | 197.26      | 2,078.0               | -185.0       | -57.5        | 523,241.07          | 581,835.61         | 32° 26' 18.193 N | 104° 12' 7.419 W  |
| 2,200.0                               | 16.01           | 197.26      | 2,174.1               | -211.3       | -65.7        | 523,214.73          | 581,827.43         | 32° 26' 17.932 N | 104° 12' 7.515 W  |
| 2,300.0                               | 16.01           | 197.26      | 2,270.2               | -237.7       | -73.9        | 523,188.39          | 581,819.24         | 32° 26' 17.671 N | 104° 12' 7.611 W  |
| 2,400.0                               | 16.01           | 197.26      | 2,366.4               | -264.0       | -82.0        | 523,162.05          | 581,811.06         | 32° 26' 17.411 N | 104° 12' 7.707 W  |
| 2,500.0                               | 16.01           | 197.26      | 2,462.5               | -290.4       | -90.2        | 523,135.71          | 581,802.87         | 32° 26' 17.150 N | 104° 12' 7.803 W  |
| 2,600.0                               | 16.01           | 197.26      | 2,558.6               | -316.7       | -98.4        | 523,109.37          | 581,794.69         | 32° 26' 16.890 N | 104° 12' 7.899 W  |
| 2,700.0                               | 16.01           | 197.26      | 2,654.7               | -343.0       | -106.6       | 523,083.03          | 581,786.51         | 32° 26' 16.629 N | 104° 12' 7.994 W  |
| 2,800.0                               | 16.01           | 197.26      | 2,750.9               | -369.4       | -114.8       | 523,056.69          | 581,778.32         | 32° 26' 16.369 N | 104° 12' 8.090 W  |
| 2,900.0                               | 16.01           | 197.26      | 2,847.0               | -395.7       | -123.0       | 523,030.35          | 581,770.14         | 32° 26' 16.108 N | 104° 12' 8.186 W  |
| 3,000.0                               | 16.01           | 197.26      | 2,943.1               | -422.1       | -131.1       | 523,004.01          | 581,761.95         | 32° 26' 15.848 N | 104° 12' 8.282 W  |
| 3,100.0                               | 16.01           | 197.26      | 3,039.2               | -448.4       | -139.3       | 522,977.67          | 581,753.77         | 32° 26' 15.587 N | 104° 12' 8.378 W  |
| 3,200.0                               | 16.01           | 197.26      | 3,135.3               | -474.7       | -147.5       | 522,951.33          | 581,745.58         | 32° 26' 15.326 N | 104° 12' 8.474 W  |
| 3,300.0                               | 16.01           | 197.26      | 3,231.5               | -501.1       | -155.7       | 522,924.99          | 581,737.40         | 32° 26' 15.066 N | 104° 12' 8.570 W  |
| 3,400.0                               | 16.01           | 197.26      | 3,327.6               | -527.4       | -163.9       | 522,898.65          | 581,729.22         | 32° 26' 14.805 N | 104° 12' 8.666 W  |
| 3,500.0                               | 16.01           | 197.26      | 3,423.7               | -553.8       | -172.1       | 522,872.31          | 581,721.03         | 32° 26' 14.545 N | 104° 12' 8.761 W  |
| 3,600.0                               | 16.01           | 197.26      | 3,519.8               | -580.1       | -180.2       | 522,845.97          | 581,712.85         | 32° 26' 14.284 N | 104° 12' 8.857 W  |
| 3,700.0                               | 16.01           | 197.26      | 3,615.9               | -606.4       | -188.4       | 522,819.63          | 581,704.66         | 32° 26' 14.024 N | 104° 12' 8.953 W  |
| 3,800.0                               | 16.01           | 197.26      | 3,712.1               | -632.8       | -196.6       | 522,793.29          | 581,696.48         | 32° 26' 13.763 N | 104° 12' 9.049 W  |
| 3,900.0                               | 16.01           | 197.26      | 3,808.2               | -659.1       | -204.8       | 522,766.95          | 581,688.29         | 32° 26' 13.503 N | 104° 12' 9.145 W  |
| 4,000.0                               | 16.01           | 197.26      | 3,904.3               | -685.5       | -213.0       | 522,740.61          | 581,680.11         | 32° 26' 13.242 N | 104° 12' 9.241 W  |
| 4,100.0                               | 16.01           | 197.26      | 4,000.4               | -711.8       | -221.2       | 522,714.27          | 581,671.93         | 32° 26' 12.981 N | 104° 12' 9.337 W  |
| 4,200.0                               | 16.01           | 197.26      | 4,096.5               | -738.1       | -229.4       | 522,687.93          | 581,663.74         | 32° 26' 12.721 N | 104° 12' 9.433 W  |
| 4,300.0                               | 16.01           | 197.26      | 4,192.7               | -764.5       | -237.5       | 522,661.59          | 581,655.56         | 32° 26' 12.460 N | 104° 12' 9.528 W  |
| 4,400.0                               | 16.01           | 197.26      | 4,288.8               | -790.8       | -245.7       | 522,635.25          | 581,647.37         | 32° 26' 12.200 N | 104° 12' 9.624 W  |
| 4,500.0                               | 16.01           | 197.26      | 4,384.9               | -817.2       | -253.9       | 522,608.91          | 581,639.19         | 32° 26' 11.939 N | 104° 12' 9.720 W  |
| 4,600.0                               | 16.01           | 197.26      | 4,481.0               | -843.5       | -262.1       | 522,582.57          | 581,631.00         | 32° 26' 11.679 N | 104° 12' 9.816 W  |
| 4,700.0                               | 16.01           | 197.26      | 4,577.1               | -869.8       | -270.3       | 522,556.23          | 581,622.82         | 32° 26' 11.418 N | 104° 12' 9.912 W  |
| 4,800.0                               | 16.01           | 197.26      | 4,673.3               | -896.2       | -278.5       | 522,529.89          | 581,614.64         | 32° 26' 11.158 N | 104° 12' 10.008 W |
| 4,900.0                               | 16.01           | 197.26      | 4,769.4               | -922.5       | -286.6       | 522,503.55          | 581,606.45         | 32° 26' 10.897 N | 104° 12' 10.104 W |
| 5,000.0                               | 16.01           | 197.26      | 4,865.5               | -948.9       | -294.8       | 522,477.21          | 581,598.27         | 32° 26' 10.636 N | 104° 12' 10.200 W |
| 5,100.0                               | 16.01           | 197.26      | 4,961.6               | -975.2       | -303.0       | 522,450.87          | 581,590.08         | 32° 26' 10.376 N | 104° 12' 10.295 W |

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## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey               |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
|------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|------------------|-------------------|--|
| Measured<br>Depth<br>(usft)  | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |  |
| 5,200.0                      | 16.01              | 197.26         | 5,057.8                     | -1,001.5        | -311.2          | 522,424.53                | 581,581.90               | 32° 26' 10.115 N | 104° 12' 10.391 W |  |
| 5,300.0                      | 16.01              | 197.26         | 5,153.9                     | -1,027.9        | -319.4          | 522,398.19                | 581,573.71               | 32° 26' 9.855 N  | 104° 12' 10.487 W |  |
| 5,400.0                      | 16.01              | 197.26         | 5,250.0                     | -1,054.2        | -327.6          | 522,371.85                | 581,565.53               | 32° 26' 9.594 N  | 104° 12' 10.583 W |  |
| 5,500.0                      | 16.01              | 197.26         | 5,346.1                     | -1,080.6        | -335.7          | 522,345.51                | 581,557.35               | 32° 26' 9.334 N  | 104° 12' 10.679 W |  |
| 5,600.0                      | 16.01              | 197.26         | 5,442.2                     | -1,106.9        | -343.9          | 522,319.17                | 581,549.16               | 32° 26' 9.073 N  | 104° 12' 10.775 W |  |
| 5,700.0                      | 16.01              | 197.26         | 5,538.4                     | -1,133.2        | -352.1          | 522,292.83                | 581,540.98               | 32° 26' 8.813 N  | 104° 12' 10.871 W |  |
| 5,800.0                      | 16.01              | 197.26         | 5,634.5                     | -1,159.6        | -360.3          | 522,266.49                | 581,532.79               | 32° 26' 8.552 N  | 104° 12' 10.967 W |  |
| 5,900.0                      | 16.01              | 197.26         | 5,730.6                     | -1,185.9        | -368.5          | 522,240.15                | 581,524.61               | 32° 26' 8.291 N  | 104° 12' 11.062 W |  |
| 6,000.0                      | 16.01              | 197.26         | 5,826.7                     | -1,212.3        | -376.7          | 522,213.81                | 581,516.42               | 32° 26' 8.031 N  | 104° 12' 11.158 W |  |
| 6,100.0                      | 16.01              | 197.26         | 5,922.8                     | -1,238.6        | -384.9          | 522,187.47                | 581,508.24               | 32° 26' 7.770 N  | 104° 12' 11.254 W |  |
| 6,200.0                      | 16.01              | 197.26         | 6,019.0                     | -1,264.9        | -393.0          | 522,161.13                | 581,500.06               | 32° 26' 7.510 N  | 104° 12' 11.350 W |  |
| 6,300.0                      | 16.01              | 197.26         | 6,115.1                     | -1,291.3        | -401.2          | 522,134.79                | 581,491.87               | 32° 26' 7.249 N  | 104° 12' 11.446 W |  |
| 6,400.0                      | 16.01              | 197.26         | 6,211.2                     | -1,317.6        | -409.4          | 522,108.45                | 581,483.69               | 32° 26' 6.989 N  | 104° 12' 11.542 W |  |
| 6,500.0                      | 16.01              | 197.26         | 6,307.3                     | -1,344.0        | -417.6          | 522,082.11                | 581,475.50               | 32° 26' 6.728 N  | 104° 12' 11.638 W |  |
| 6,600.0                      | 16.01              | 197.26         | 6,403.4                     | -1,370.3        | -425.8          | 522,055.77                | 581,467.32               | 32° 26' 6.468 N  | 104° 12' 11.734 W |  |
| 6,700.0                      | 16.01              | 197.26         | 6,499.6                     | -1,396.6        | -434.0          | 522,029.42                | 581,459.13               | 32° 26' 6.207 N  | 104° 12' 11.829 W |  |
| 6,800.0                      | 16.01              | 197.26         | 6,595.7                     | -1,423.0        | -442.1          | 522,003.08                | 581,450.95               | 32° 26' 5.946 N  | 104° 12' 11.925 W |  |
| 6,900.0                      | 16.01              | 197.26         | 6,691.8                     | -1,449.3        | -450.3          | 521,976.74                | 581,442.77               | 32° 26' 5.686 N  | 104° 12' 12.021 W |  |
| 7,000.0                      | 16.01              | 197.26         | 6,787.9                     | -1,475.7        | -458.5          | 521,950.40                | 581,434.58               | 32° 26' 5.425 N  | 104° 12' 12.117 W |  |
| 7,100.0                      | 16.01              | 197.26         | 6,884.0                     | -1,502.0        | -466.7          | 521,924.06                | 581,426.40               | 32° 26' 5.165 N  | 104° 12' 12.213 W |  |
| 7,200.0                      | 16.01              | 197.26         | 6,980.2                     | -1,528.3        | -474.9          | 521,897.72                | 581,418.21               | 32° 26' 4.904 N  | 104° 12' 12.309 W |  |
| 7,300.0                      | 16.01              | 197.26         | 7,076.3                     | -1,554.7        | -483.1          | 521,871.38                | 581,410.03               | 32° 26' 4.644 N  | 104° 12' 12.405 W |  |
| 7,400.0                      | 16.01              | 197.26         | 7,172.4                     | -1,581.0        | -491.2          | 521,845.04                | 581,401.84               | 32° 26' 4.383 N  | 104° 12' 12.501 W |  |
| 7,500.0                      | 16.01              | 197.26         | 7,268.5                     | -1,607.4        | -499.4          | 521,818.70                | 581,393.66               | 32° 26' 4.123 N  | 104° 12' 12.596 W |  |
| 7,600.0                      | 16.01              | 197.26         | 7,364.7                     | -1,633.7        | -507.6          | 521,792.36                | 581,385.48               | 32° 26' 3.862 N  | 104° 12' 12.692 W |  |
| 7,700.0                      | 16.01              | 197.26         | 7,460.8                     | -1,660.0        | -515.8          | 521,766.02                | 581,377.29               | 32° 26' 3.601 N  | 104° 12' 12.788 W |  |
| 7,800.0                      | 16.01              | 197.26         | 7,556.9                     | -1,686.4        | -524.0          | 521,739.68                | 581,369.11               | 32° 26' 3.341 N  | 104° 12' 12.884 W |  |
| 7,900.0                      | 16.01              | 197.26         | 7,653.0                     | -1,712.7        | -532.2          | 521,713.34                | 581,360.92               | 32° 26' 3.080 N  | 104° 12' 12.980 W |  |
| 8,000.0                      | 16.01              | 197.26         | 7,749.1                     | -1,739.1        | -540.4          | 521,687.00                | 581,352.74               | 32° 26' 2.820 N  | 104° 12' 13.076 W |  |
| 8,100.0                      | 16.01              | 197.26         | 7,845.3                     | -1,765.4        | -548.5          | 521,660.66                | 581,344.55               | 32° 26' 2.559 N  | 104° 12' 13.172 W |  |
| 8,200.0                      | 16.01              | 197.26         | 7,941.4                     | -1,791.7        | -556.7          | 521,634.32                | 581,336.37               | 32° 26' 2.299 N  | 104° 12' 13.268 W |  |
| 8,229.6                      | 16.01              | 197.26         | 7,969.8                     | -1,799.5        | -559.1          | 521,626.53                | 581,333.95               | 32° 26' 2.222 N  | 104° 12' 13.296 W |  |
| Start Drop -2.00             |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
| 8,300.0                      | 14.60              | 197.26         | 8,037.7                     | -1,817.3        | -564.7          | 521,608.78                | 581,328.43               | 32° 26' 2.046 N  | 104° 12' 13.361 W |  |
| 8,400.0                      | 12.60              | 197.26         | 8,134.9                     | -1,839.8        | -571.6          | 521,586.32                | 581,321.45               | 32° 26' 1.824 N  | 104° 12' 13.442 W |  |
| 8,500.0                      | 10.60              | 197.26         | 8,232.9                     | -1,859.0        | -577.6          | 521,567.11                | 581,315.49               | 32° 26' 1.634 N  | 104° 12' 13.512 W |  |
| 8,600.0                      | 8.60               | 197.26         | 8,331.5                     | -1,874.9        | -582.6          | 521,551.18                | 581,310.54               | 32° 26' 1.476 N  | 104° 12' 13.570 W |  |
| 8,700.0                      | 6.60               | 197.26         | 8,430.6                     | -1,887.5        | -586.5          | 521,538.55                | 581,306.61               | 32° 26' 1.351 N  | 104° 12' 13.616 W |  |
| 8,800.0                      | 4.60               | 197.26         | 8,530.1                     | -1,896.8        | -589.4          | 521,529.23                | 581,303.71               | 32° 26' 1.259 N  | 104° 12' 13.650 W |  |
| 8,900.0                      | 2.60               | 197.26         | 8,629.9                     | -1,902.8        | -591.2          | 521,523.22                | 581,301.85               | 32° 26' 1.200 N  | 104° 12' 13.672 W |  |
| 9,000.0                      | 0.60               | 197.26         | 8,729.8                     | -1,905.5        | -592.1          | 521,520.55                | 581,301.02               | 32° 26' 1.173 N  | 104° 12' 13.682 W |  |
| 9,030.2                      | 0.00               | 0.00           | 8,760.0                     | -1,905.7        | -592.1          | 521,520.40                | 581,300.97               | 32° 26' 1.172 N  | 104° 12' 13.682 W |  |
| Start 62.5 hold at 9030.2 MD |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
| 9,092.7                      | 0.00               | 0.00           | 8,822.5                     | -1,905.7        | -592.1          | 521,520.40                | 581,300.97               | 32° 26' 1.172 N  | 104° 12' 13.682 W |  |
| Start DLS 12.00 TFO 268.98   |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
| 9,100.0                      | 0.88               | 268.98         | 8,829.8                     | -1,905.7        | -592.2          | 521,520.40                | 581,300.92               | 32° 26' 1.172 N  | 104° 12' 13.683 W |  |
| 9,125.0                      | 3.88               | 268.98         | 8,854.8                     | -1,905.7        | -593.2          | 521,520.38                | 581,299.88               | 32° 26' 1.172 N  | 104° 12' 13.695 W |  |
| 9,150.0                      | 6.88               | 268.98         | 8,879.7                     | -1,905.7        | -595.6          | 521,520.34                | 581,297.53               | 32° 26' 1.171 N  | 104° 12' 13.722 W |  |
| 9,175.0                      | 9.88               | 268.98         | 8,904.4                     | -1,905.8        | -599.2          | 521,520.28                | 581,293.89               | 32° 26' 1.171 N  | 104° 12' 13.765 W |  |
| 9,200.0                      | 12.88              | 268.98         | 8,928.9                     | -1,905.9        | -604.1          | 521,520.19                | 581,288.96               | 32° 26' 1.170 N  | 104° 12' 13.822 W |  |
| 9,225.0                      | 15.88              | 268.98         | 8,953.2                     | -1,906.0        | -610.3          | 521,520.08                | 581,282.75               | 32° 26' 1.169 N  | 104° 12' 13.895 W |  |
| 9,250.0                      | 18.88              | 268.98         | 8,977.0                     | -1,906.1        | -617.8          | 521,519.95                | 581,275.28               | 32° 26' 1.168 N  | 104° 12' 13.982 W |  |
| 9,275.0                      | 21.88              | 268.98         | 9,000.4                     | -1,906.3        | -626.5          | 521,519.79                | 581,266.58               | 32° 26' 1.166 N  | 104° 12' 14.084 W |  |
| 9,300.0                      | 24.88              | 268.98         | 9,023.4                     | -1,906.5        | -636.4          | 521,519.61                | 581,256.66               | 32° 26' 1.164 N  | 104° 12' 14.199 W |  |

# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

#### Planned Survey

| Measured Depth (usft)                 | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude        | Longitude         |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|-----------------|-------------------|
| 9,325.0                               | 27.88           | 268.98      | 9,045.8               | -1,906.7     | -647.5       | 521,519.42          | 581,245.55         | 32° 26' 1.163 N | 104° 12' 14.329 W |
| 9,350.0                               | 30.88           | 268.98      | 9,067.6               | -1,906.9     | -659.8       | 521,519.20          | 581,233.29         | 32° 26' 1.161 N | 104° 12' 14.472 W |
| 9,375.0                               | 33.88           | 268.98      | 9,088.7               | -1,907.1     | -673.2       | 521,518.96          | 581,219.91         | 32° 26' 1.158 N | 104° 12' 14.628 W |
| 9,400.0                               | 36.88           | 268.98      | 9,109.1               | -1,907.4     | -687.7       | 521,518.70          | 581,205.44         | 32° 26' 1.156 N | 104° 12' 14.797 W |
| 9,425.0                               | 39.88           | 268.98      | 9,128.7               | -1,907.6     | -703.2       | 521,518.43          | 581,189.92         | 32° 26' 1.154 N | 104° 12' 14.978 W |
| 9,450.0                               | 42.88           | 268.98      | 9,147.4               | -1,907.9     | -719.7       | 521,518.13          | 581,173.39         | 32° 26' 1.151 N | 104° 12' 15.171 W |
| 9,469.8                               | 45.26           | 268.98      | 9,161.6               | -1,908.2     | -733.5       | 521,517.89          | 581,159.62         | 32° 26' 1.149 N | 104° 12' 15.332 W |
| <b>FTP-FSC 423H</b>                   |                 |             |                       |              |              |                     |                    |                 |                   |
| 9,475.0                               | 45.88           | 268.98      | 9,165.3               | -1,908.2     | -737.2       | 521,517.82          | 581,155.91         | 32° 26' 1.148 N | 104° 12' 15.375 W |
| 9,500.0                               | 48.88           | 268.98      | 9,182.2               | -1,908.6     | -755.6       | 521,517.50          | 581,137.52         | 32° 26' 1.145 N | 104° 12' 15.590 W |
| 9,525.0                               | 51.88           | 268.98      | 9,198.1               | -1,908.9     | -774.8       | 521,517.15          | 581,118.27         | 32° 26' 1.142 N | 104° 12' 15.814 W |
| 9,550.0                               | 54.88           | 268.98      | 9,213.1               | -1,909.3     | -794.9       | 521,516.80          | 581,098.21         | 32° 26' 1.138 N | 104° 12' 16.048 W |
| 9,575.0                               | 57.88           | 268.98      | 9,226.9               | -1,909.6     | -815.7       | 521,516.43          | 581,077.40         | 32° 26' 1.135 N | 104° 12' 16.291 W |
| 9,600.0                               | 60.88           | 268.98      | 9,239.6               | -1,910.0     | -837.2       | 521,516.05          | 581,055.89         | 32° 26' 1.132 N | 104° 12' 16.542 W |
| 9,625.0                               | 63.88           | 268.98      | 9,251.2               | -1,910.4     | -859.4       | 521,515.65          | 581,033.74         | 32° 26' 1.128 N | 104° 12' 16.801 W |
| 9,650.0                               | 66.88           | 268.98      | 9,261.6               | -1,910.8     | -882.1       | 521,515.25          | 581,011.02         | 32° 26' 1.124 N | 104° 12' 17.066 W |
| 9,675.0                               | 69.88           | 268.98      | 9,270.8               | -1,911.2     | -905.3       | 521,514.83          | 580,987.78         | 32° 26' 1.120 N | 104° 12' 17.337 W |
| 9,700.0                               | 72.88           | 268.98      | 9,278.8               | -1,911.7     | -929.0       | 521,514.41          | 580,964.10         | 32° 26' 1.117 N | 104° 12' 17.613 W |
| 9,725.0                               | 75.88           | 268.98      | 9,285.5               | -1,912.1     | -953.1       | 521,513.99          | 580,940.03         | 32° 26' 1.113 N | 104° 12' 17.894 W |
| 9,750.0                               | 78.88           | 268.98      | 9,291.0               | -1,912.5     | -977.5       | 521,513.55          | 580,915.64         | 32° 26' 1.109 N | 104° 12' 18.179 W |
| 9,775.0                               | 81.88           | 268.98      | 9,295.2               | -1,913.0     | -1,002.1     | 521,513.11          | 580,891.00         | 32° 26' 1.105 N | 104° 12' 18.466 W |
| 9,800.0                               | 84.88           | 268.98      | 9,298.1               | -1,913.4     | -1,026.9     | 521,512.67          | 580,866.17         | 32° 26' 1.100 N | 104° 12' 18.756 W |
| 9,825.0                               | 87.88           | 268.98      | 9,299.6               | -1,913.8     | -1,051.9     | 521,512.23          | 580,841.23         | 32° 26' 1.096 N | 104° 12' 19.047 W |
| 9,842.6                               | 90.00           | 268.98      | 9,300.0               | -1,914.2     | -1,069.5     | 521,511.92          | 580,823.59         | 32° 26' 1.093 N | 104° 12' 19.253 W |
| <b>Start 9922.8 hold at 9842.6 MD</b> |                 |             |                       |              |              |                     |                    |                 |                   |
| 9,900.0                               | 90.00           | 268.98      | 9,300.0               | -1,915.2     | -1,126.8     | 521,510.90          | 580,766.24         | 32° 26' 1.084 N | 104° 12' 19.922 W |
| 10,000.0                              | 90.00           | 268.98      | 9,300.0               | -1,917.0     | -1,226.8     | 521,509.12          | 580,666.26         | 32° 26' 1.068 N | 104° 12' 21.089 W |
| 10,100.0                              | 90.00           | 268.98      | 9,300.0               | -1,918.7     | -1,326.8     | 521,507.34          | 580,566.28         | 32° 26' 1.051 N | 104° 12' 22.255 W |
| 10,200.0                              | 90.00           | 268.98      | 9,300.0               | -1,920.5     | -1,426.8     | 521,505.57          | 580,466.29         | 32° 26' 1.035 N | 104° 12' 23.422 W |
| 10,300.0                              | 90.00           | 268.98      | 9,300.0               | -1,922.3     | -1,526.8     | 521,503.79          | 580,366.31         | 32° 26' 1.018 N | 104° 12' 24.589 W |
| 10,400.0                              | 90.00           | 268.98      | 9,300.0               | -1,924.1     | -1,626.8     | 521,502.01          | 580,266.32         | 32° 26' 1.002 N | 104° 12' 25.755 W |
| 10,500.0                              | 90.00           | 268.98      | 9,300.0               | -1,925.8     | -1,726.8     | 521,500.23          | 580,166.34         | 32° 26' 0.986 N | 104° 12' 26.922 W |
| 10,600.0                              | 90.00           | 268.98      | 9,300.0               | -1,927.6     | -1,826.7     | 521,498.46          | 580,066.35         | 32° 26' 0.969 N | 104° 12' 28.089 W |
| 10,700.0                              | 90.00           | 268.98      | 9,300.0               | -1,929.4     | -1,926.7     | 521,496.68          | 579,966.37         | 32° 26' 0.953 N | 104° 12' 29.255 W |
| 10,800.0                              | 90.00           | 268.98      | 9,300.0               | -1,931.2     | -2,026.7     | 521,494.90          | 579,866.39         | 32° 26' 0.936 N | 104° 12' 30.422 W |
| 10,900.0                              | 90.00           | 268.98      | 9,300.0               | -1,932.9     | -2,126.7     | 521,493.13          | 579,766.40         | 32° 26' 0.920 N | 104° 12' 31.589 W |
| 11,000.0                              | 90.00           | 268.98      | 9,300.0               | -1,934.7     | -2,226.7     | 521,491.35          | 579,666.42         | 32° 26' 0.903 N | 104° 12' 32.756 W |
| 11,100.0                              | 90.00           | 268.98      | 9,300.0               | -1,936.5     | -2,326.7     | 521,489.57          | 579,566.43         | 32° 26' 0.887 N | 104° 12' 33.922 W |
| 11,200.0                              | 90.00           | 268.98      | 9,300.0               | -1,938.3     | -2,426.6     | 521,487.79          | 579,466.45         | 32° 26' 0.871 N | 104° 12' 35.089 W |
| 11,300.0                              | 90.00           | 268.98      | 9,300.0               | -1,940.1     | -2,526.6     | 521,486.02          | 579,366.46         | 32° 26' 0.854 N | 104° 12' 36.256 W |
| 11,400.0                              | 90.00           | 268.98      | 9,300.0               | -1,941.8     | -2,626.6     | 521,484.24          | 579,266.48         | 32° 26' 0.838 N | 104° 12' 37.422 W |
| 11,500.0                              | 90.00           | 268.98      | 9,300.0               | -1,943.6     | -2,726.6     | 521,482.46          | 579,166.50         | 32° 26' 0.821 N | 104° 12' 38.589 W |
| 11,600.0                              | 90.00           | 268.98      | 9,300.0               | -1,945.4     | -2,826.6     | 521,480.69          | 579,066.51         | 32° 26' 0.805 N | 104° 12' 39.756 W |
| 11,700.0                              | 90.00           | 268.98      | 9,300.0               | -1,947.2     | -2,926.6     | 521,478.91          | 578,966.53         | 32° 26' 0.788 N | 104° 12' 40.922 W |
| 11,800.0                              | 90.00           | 268.98      | 9,300.0               | -1,948.9     | -3,026.5     | 521,477.13          | 578,866.54         | 32° 26' 0.772 N | 104° 12' 42.089 W |
| 11,900.0                              | 90.00           | 268.98      | 9,300.0               | -1,950.7     | -3,126.5     | 521,475.35          | 578,766.56         | 32° 26' 0.755 N | 104° 12' 43.256 W |
| 12,000.0                              | 90.00           | 268.98      | 9,300.0               | -1,952.5     | -3,226.5     | 521,473.58          | 578,666.58         | 32° 26' 0.739 N | 104° 12' 44.423 W |
| 12,100.0                              | 90.00           | 268.98      | 9,300.0               | -1,954.3     | -3,326.5     | 521,471.80          | 578,566.59         | 32° 26' 0.722 N | 104° 12' 45.589 W |
| 12,200.0                              | 90.00           | 268.98      | 9,300.0               | -1,956.0     | -3,426.5     | 521,470.02          | 578,466.61         | 32° 26' 0.706 N | 104° 12' 46.756 W |
| 12,300.0                              | 90.00           | 268.98      | 9,300.0               | -1,957.8     | -3,526.5     | 521,468.24          | 578,366.62         | 32° 26' 0.690 N | 104° 12' 47.923 W |
| 12,400.0                              | 90.00           | 268.98      | 9,300.0               | -1,959.6     | -3,626.5     | 521,466.47          | 578,266.64         | 32° 26' 0.673 N | 104° 12' 49.089 W |
| 12,500.0                              | 90.00           | 268.98      | 9,300.0               | -1,961.4     | -3,726.4     | 521,464.69          | 578,166.65         | 32° 26' 0.657 N | 104° 12' 50.256 W |
| 12,600.0                              | 90.00           | 268.98      | 9,300.0               | -1,963.2     | -3,826.4     | 521,462.91          | 578,066.67         | 32° 26' 0.640 N | 104° 12' 51.423 W |
| 12,700.0                              | 90.00           | 268.98      | 9,300.0               | -1,964.9     | -3,926.4     | 521,461.14          | 577,966.69         | 32° 26' 0.624 N | 104° 12' 52.589 W |

# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey        |                 |             |                       |              |              |                     |                    |                  |                   |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|-------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude         |  |
| 12,800.0              | 90.00           | 268.98      | 9,300.0               | -1,966.7     | -4,026.4     | 521,459.36          | 577,866.70         | 32° 26' 0.607 N  | 104° 12' 53.756 W |  |
| 12,900.0              | 90.00           | 268.98      | 9,300.0               | -1,968.5     | -4,126.4     | 521,457.58          | 577,766.72         | 32° 26' 0.591 N  | 104° 12' 54.923 W |  |
| 13,000.0              | 90.00           | 268.98      | 9,300.0               | -1,970.3     | -4,226.4     | 521,455.80          | 577,666.73         | 32° 26' 0.574 N  | 104° 12' 56.089 W |  |
| 13,100.0              | 90.00           | 268.98      | 9,300.0               | -1,972.0     | -4,326.3     | 521,454.03          | 577,566.75         | 32° 26' 0.558 N  | 104° 12' 57.256 W |  |
| 13,200.0              | 90.00           | 268.98      | 9,300.0               | -1,973.8     | -4,426.3     | 521,452.25          | 577,466.76         | 32° 26' 0.541 N  | 104° 12' 58.423 W |  |
| 13,300.0              | 90.00           | 268.98      | 9,300.0               | -1,975.6     | -4,526.3     | 521,450.47          | 577,366.78         | 32° 26' 0.525 N  | 104° 12' 59.590 W |  |
| 13,400.0              | 90.00           | 268.98      | 9,300.0               | -1,977.4     | -4,626.3     | 521,448.70          | 577,266.80         | 32° 26' 0.508 N  | 104° 13' 0.756 W  |  |
| 13,500.0              | 90.00           | 268.98      | 9,300.0               | -1,979.2     | -4,726.3     | 521,446.92          | 577,166.81         | 32° 26' 0.492 N  | 104° 13' 1.923 W  |  |
| 13,600.0              | 90.00           | 268.98      | 9,300.0               | -1,980.9     | -4,826.3     | 521,445.14          | 577,066.83         | 32° 26' 0.475 N  | 104° 13' 3.090 W  |  |
| 13,700.0              | 90.00           | 268.98      | 9,300.0               | -1,982.7     | -4,926.2     | 521,443.36          | 576,966.84         | 32° 26' 0.459 N  | 104° 13' 4.256 W  |  |
| 13,800.0              | 90.00           | 268.98      | 9,300.0               | -1,984.5     | -5,026.2     | 521,441.59          | 576,866.86         | 32° 26' 0.442 N  | 104° 13' 5.423 W  |  |
| 13,900.0              | 90.00           | 268.98      | 9,300.0               | -1,986.3     | -5,126.2     | 521,439.81          | 576,766.88         | 32° 26' 0.426 N  | 104° 13' 6.590 W  |  |
| 14,000.0              | 90.00           | 268.98      | 9,300.0               | -1,988.0     | -5,226.2     | 521,438.03          | 576,666.89         | 32° 26' 0.409 N  | 104° 13' 7.756 W  |  |
| 14,100.0              | 90.00           | 268.98      | 9,300.0               | -1,989.8     | -5,326.2     | 521,436.26          | 576,566.91         | 32° 26' 0.392 N  | 104° 13' 8.923 W  |  |
| 14,200.0              | 90.00           | 268.98      | 9,300.0               | -1,991.6     | -5,426.2     | 521,434.48          | 576,466.92         | 32° 26' 0.376 N  | 104° 13' 10.090 W |  |
| 14,300.0              | 90.00           | 268.98      | 9,300.0               | -1,993.4     | -5,526.2     | 521,432.70          | 576,366.94         | 32° 26' 0.359 N  | 104° 13' 11.256 W |  |
| 14,400.0              | 90.00           | 268.98      | 9,300.0               | -1,995.1     | -5,626.1     | 521,430.92          | 576,266.95         | 32° 26' 0.343 N  | 104° 13' 12.423 W |  |
| 14,500.0              | 90.00           | 268.98      | 9,300.0               | -1,996.9     | -5,726.1     | 521,429.15          | 576,166.97         | 32° 26' 0.326 N  | 104° 13' 13.590 W |  |
| 14,600.0              | 90.00           | 268.98      | 9,300.0               | -1,998.7     | -5,826.1     | 521,427.37          | 576,066.99         | 32° 26' 0.310 N  | 104° 13' 14.757 W |  |
| 14,700.0              | 90.00           | 268.98      | 9,300.0               | -2,000.5     | -5,926.1     | 521,425.59          | 575,967.00         | 32° 26' 0.293 N  | 104° 13' 15.923 W |  |
| 14,800.0              | 90.00           | 268.98      | 9,300.0               | -2,002.3     | -6,026.1     | 521,423.82          | 575,867.02         | 32° 26' 0.277 N  | 104° 13' 17.090 W |  |
| 14,900.0              | 90.00           | 268.98      | 9,300.0               | -2,004.0     | -6,126.1     | 521,422.04          | 575,767.03         | 32° 26' 0.260 N  | 104° 13' 18.257 W |  |
| 15,000.0              | 90.00           | 268.98      | 9,300.0               | -2,005.8     | -6,226.0     | 521,420.26          | 575,667.05         | 32° 26' 0.244 N  | 104° 13' 19.423 W |  |
| 15,100.0              | 90.00           | 268.98      | 9,300.0               | -2,007.6     | -6,326.0     | 521,418.48          | 575,567.06         | 32° 26' 0.227 N  | 104° 13' 20.590 W |  |
| 15,200.0              | 90.00           | 268.98      | 9,300.0               | -2,009.4     | -6,426.0     | 521,416.71          | 575,467.08         | 32° 26' 0.210 N  | 104° 13' 21.757 W |  |
| 15,300.0              | 90.00           | 268.98      | 9,300.0               | -2,011.1     | -6,526.0     | 521,414.93          | 575,367.10         | 32° 26' 0.194 N  | 104° 13' 22.923 W |  |
| 15,400.0              | 90.00           | 268.98      | 9,300.0               | -2,012.9     | -6,626.0     | 521,413.15          | 575,267.11         | 32° 26' 0.177 N  | 104° 13' 24.090 W |  |
| 15,500.0              | 90.00           | 268.98      | 9,300.0               | -2,014.7     | -6,726.0     | 521,411.38          | 575,167.13         | 32° 26' 0.161 N  | 104° 13' 25.257 W |  |
| 15,600.0              | 90.00           | 268.98      | 9,300.0               | -2,016.5     | -6,825.9     | 521,409.60          | 575,067.14         | 32° 26' 0.144 N  | 104° 13' 26.423 W |  |
| 15,700.0              | 90.00           | 268.98      | 9,300.0               | -2,018.3     | -6,925.9     | 521,407.82          | 574,967.16         | 32° 26' 0.128 N  | 104° 13' 27.590 W |  |
| 15,800.0              | 90.00           | 268.98      | 9,300.0               | -2,020.0     | -7,025.9     | 521,406.04          | 574,867.18         | 32° 26' 0.111 N  | 104° 13' 28.757 W |  |
| 15,900.0              | 90.00           | 268.98      | 9,300.0               | -2,021.8     | -7,125.9     | 521,404.27          | 574,767.19         | 32° 26' 0.094 N  | 104° 13' 29.924 W |  |
| 16,000.0              | 90.00           | 268.98      | 9,300.0               | -2,023.6     | -7,225.9     | 521,402.49          | 574,667.21         | 32° 26' 0.078 N  | 104° 13' 31.090 W |  |
| 16,100.0              | 90.00           | 268.98      | 9,300.0               | -2,025.4     | -7,325.9     | 521,400.71          | 574,567.22         | 32° 26' 0.061 N  | 104° 13' 32.257 W |  |
| 16,200.0              | 90.00           | 268.98      | 9,300.0               | -2,027.1     | -7,425.9     | 521,398.94          | 574,467.24         | 32° 26' 0.045 N  | 104° 13' 33.424 W |  |
| 16,300.0              | 90.00           | 268.98      | 9,300.0               | -2,028.9     | -7,525.8     | 521,397.16          | 574,367.25         | 32° 26' 0.028 N  | 104° 13' 34.590 W |  |
| 16,400.0              | 90.00           | 268.98      | 9,300.0               | -2,030.7     | -7,625.8     | 521,395.38          | 574,267.27         | 32° 26' 0.012 N  | 104° 13' 35.757 W |  |
| 16,500.0              | 90.00           | 268.98      | 9,300.0               | -2,032.5     | -7,725.8     | 521,393.60          | 574,167.29         | 32° 25' 59.995 N | 104° 13' 36.924 W |  |
| 16,600.0              | 90.00           | 268.98      | 9,300.0               | -2,034.2     | -7,825.8     | 521,391.83          | 574,067.30         | 32° 25' 59.978 N | 104° 13' 38.090 W |  |
| 16,700.0              | 90.00           | 268.98      | 9,300.0               | -2,036.0     | -7,925.8     | 521,390.05          | 573,967.32         | 32° 25' 59.962 N | 104° 13' 39.257 W |  |
| 16,800.0              | 90.00           | 268.98      | 9,300.0               | -2,037.8     | -8,025.8     | 521,388.27          | 573,867.33         | 32° 25' 59.945 N | 104° 13' 40.424 W |  |
| 16,900.0              | 90.00           | 268.98      | 9,300.0               | -2,039.6     | -8,125.7     | 521,386.49          | 573,767.35         | 32° 25' 59.928 N | 104° 13' 41.590 W |  |
| 17,000.0              | 90.00           | 268.98      | 9,300.0               | -2,041.4     | -8,225.7     | 521,384.72          | 573,667.36         | 32° 25' 59.912 N | 104° 13' 42.757 W |  |
| 17,100.0              | 90.00           | 268.98      | 9,300.0               | -2,043.1     | -8,325.7     | 521,382.94          | 573,567.38         | 32° 25' 59.895 N | 104° 13' 43.924 W |  |
| 17,200.0              | 90.00           | 268.98      | 9,300.0               | -2,044.9     | -8,425.7     | 521,381.16          | 573,467.40         | 32° 25' 59.879 N | 104° 13' 45.091 W |  |
| 17,300.0              | 90.00           | 268.98      | 9,300.0               | -2,046.7     | -8,525.7     | 521,379.39          | 573,367.41         | 32° 25' 59.862 N | 104° 13' 46.257 W |  |
| 17,400.0              | 90.00           | 268.98      | 9,300.0               | -2,048.5     | -8,625.7     | 521,377.61          | 573,267.43         | 32° 25' 59.845 N | 104° 13' 47.424 W |  |
| 17,500.0              | 90.00           | 268.98      | 9,300.0               | -2,050.2     | -8,725.6     | 521,375.83          | 573,167.44         | 32° 25' 59.829 N | 104° 13' 48.591 W |  |
| 17,600.0              | 90.00           | 268.98      | 9,300.0               | -2,052.0     | -8,825.6     | 521,374.05          | 573,067.46         | 32° 25' 59.812 N | 104° 13' 49.757 W |  |
| 17,700.0              | 90.00           | 268.98      | 9,300.0               | -2,053.8     | -8,925.6     | 521,372.28          | 572,967.48         | 32° 25' 59.796 N | 104° 13' 50.924 W |  |
| 17,800.0              | 90.00           | 268.98      | 9,300.0               | -2,055.6     | -9,025.6     | 521,370.50          | 572,867.49         | 32° 25' 59.779 N | 104° 13' 52.091 W |  |
| 17,900.0              | 90.00           | 268.98      | 9,300.0               | -2,057.3     | -9,125.6     | 521,368.72          | 572,767.51         | 32° 25' 59.762 N | 104° 13' 53.257 W |  |
| 18,000.0              | 90.00           | 268.98      | 9,300.0               | -2,059.1     | -9,225.6     | 521,366.95          | 572,667.52         | 32° 25' 59.746 N | 104° 13' 54.424 W |  |
| 18,100.0              | 90.00           | 268.98      | 9,300.0               | -2,060.9     | -9,325.6     | 521,365.17          | 572,567.54         | 32° 25' 59.729 N | 104° 13' 55.591 W |  |
| 18,200.0              | 90.00           | 268.98      | 9,300.0               | -2,062.7     | -9,425.5     | 521,363.39          | 572,467.55         | 32° 25' 59.712 N | 104° 13' 56.757 W |  |



# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey                          |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
|-----------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|------------------|-------------------|--|
| Measured<br>Depth<br>(usft)             | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |  |
| 18,300.0                                | 90.00              | 268.98         | 9,300.0                     | -2,064.5        | -9,525.5        | 521,361.61                | 572,367.57               | 32° 25' 59.696 N | 104° 13' 57.924 W |  |
| 18,400.0                                | 90.00              | 268.98         | 9,300.0                     | -2,066.2        | -9,625.5        | 521,359.84                | 572,267.59               | 32° 25' 59.679 N | 104° 13' 59.091 W |  |
| 18,500.0                                | 90.00              | 268.98         | 9,300.0                     | -2,068.0        | -9,725.5        | 521,358.06                | 572,167.60               | 32° 25' 59.662 N | 104° 14' 0.258 W  |  |
| 18,600.0                                | 90.00              | 268.98         | 9,300.0                     | -2,069.8        | -9,825.5        | 521,356.28                | 572,067.62               | 32° 25' 59.646 N | 104° 14' 1.424 W  |  |
| 18,700.0                                | 90.00              | 268.98         | 9,300.0                     | -2,071.6        | -9,925.5        | 521,354.51                | 571,967.63               | 32° 25' 59.629 N | 104° 14' 2.591 W  |  |
| 18,800.0                                | 90.00              | 268.98         | 9,300.0                     | -2,073.3        | -10,025.4       | 521,352.73                | 571,867.65               | 32° 25' 59.612 N | 104° 14' 3.758 W  |  |
| 18,900.0                                | 90.00              | 268.98         | 9,300.0                     | -2,075.1        | -10,125.4       | 521,350.95                | 571,767.66               | 32° 25' 59.596 N | 104° 14' 4.924 W  |  |
| 19,000.0                                | 90.00              | 268.98         | 9,300.0                     | -2,076.9        | -10,225.4       | 521,349.17                | 571,667.68               | 32° 25' 59.579 N | 104° 14' 6.091 W  |  |
| 19,100.0                                | 90.00              | 268.98         | 9,300.0                     | -2,078.7        | -10,325.4       | 521,347.40                | 571,567.70               | 32° 25' 59.562 N | 104° 14' 7.258 W  |  |
| 19,200.0                                | 90.00              | 268.98         | 9,300.0                     | -2,080.5        | -10,425.4       | 521,345.62                | 571,467.71               | 32° 25' 59.546 N | 104° 14' 8.424 W  |  |
| 19,300.0                                | 90.00              | 268.98         | 9,300.0                     | -2,082.2        | -10,525.4       | 521,343.84                | 571,367.73               | 32° 25' 59.529 N | 104° 14' 9.591 W  |  |
| 19,400.0                                | 90.00              | 268.98         | 9,300.0                     | -2,084.0        | -10,625.3       | 521,342.07                | 571,267.74               | 32° 25' 59.512 N | 104° 14' 10.758 W |  |
| 19,500.0                                | 90.00              | 268.98         | 9,300.0                     | -2,085.8        | -10,725.3       | 521,340.29                | 571,167.76               | 32° 25' 59.496 N | 104° 14' 11.924 W |  |
| 19,600.0                                | 90.00              | 268.98         | 9,300.0                     | -2,087.6        | -10,825.3       | 521,338.51                | 571,067.78               | 32° 25' 59.479 N | 104° 14' 13.091 W |  |
| 19,700.0                                | 90.00              | 268.98         | 9,300.0                     | -2,089.3        | -10,925.3       | 521,336.73                | 570,967.79               | 32° 25' 59.462 N | 104° 14' 14.258 W |  |
| 19,765.4                                | 90.00              | 268.98         | 9,300.0                     | -2,090.5        | -10,990.7       | 521,335.57                | 570,902.39               | 32° 25' 59.451 N | 104° 14' 15.021 W |  |
| Start DLS 2.00 TFO 89.99 - PP2-FSC 423H |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
| 19,800.0                                | 90.00              | 269.67         | 9,300.0                     | -2,090.9        | -11,025.3       | 521,335.17                | 570,867.80               | 32° 25' 59.448 N | 104° 14' 15.424 W |  |
| 19,842.3                                | 90.00              | 270.52         | 9,300.0                     | -2,090.8        | -11,067.6       | 521,335.24                | 570,825.47               | 32° 25' 59.449 N | 104° 14' 15.918 W |  |
| Start 5068.8 hold at 19842.3 MD         |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
| 19,900.0                                | 90.00              | 270.52         | 9,300.0                     | -2,090.3        | -11,125.3       | 521,335.76                | 570,767.81               | 32° 25' 59.454 N | 104° 14' 16.591 W |  |
| 20,000.0                                | 90.00              | 270.52         | 9,300.0                     | -2,089.4        | -11,225.3       | 521,336.67                | 570,667.81               | 32° 25' 59.464 N | 104° 14' 17.758 W |  |
| 20,100.0                                | 90.00              | 270.52         | 9,300.0                     | -2,088.5        | -11,325.3       | 521,337.58                | 570,567.81               | 32° 25' 59.474 N | 104° 14' 18.925 W |  |
| 20,200.0                                | 90.00              | 270.52         | 9,300.0                     | -2,087.6        | -11,425.3       | 521,338.48                | 570,467.82               | 32° 25' 59.484 N | 104° 14' 20.092 W |  |
| 20,300.0                                | 90.00              | 270.52         | 9,300.0                     | -2,086.7        | -11,525.3       | 521,339.39                | 570,367.82               | 32° 25' 59.494 N | 104° 14' 21.258 W |  |
| 20,400.0                                | 90.00              | 270.52         | 9,300.0                     | -2,085.8        | -11,625.3       | 521,340.30                | 570,267.83               | 32° 25' 59.504 N | 104° 14' 22.425 W |  |
| 20,500.0                                | 90.00              | 270.52         | 9,300.0                     | -2,084.9        | -11,725.3       | 521,341.21                | 570,167.83               | 32° 25' 59.513 N | 104° 14' 23.592 W |  |
| 20,600.0                                | 90.00              | 270.52         | 9,300.0                     | -2,084.0        | -11,825.3       | 521,342.12                | 570,067.84               | 32° 25' 59.523 N | 104° 14' 24.759 W |  |
| 20,700.0                                | 90.00              | 270.52         | 9,300.0                     | -2,083.0        | -11,925.3       | 521,343.02                | 569,967.84               | 32° 25' 59.533 N | 104° 14' 25.926 W |  |
| 20,800.0                                | 90.00              | 270.52         | 9,300.0                     | -2,082.1        | -12,025.2       | 521,343.93                | 569,867.84               | 32° 25' 59.543 N | 104° 14' 27.092 W |  |
| 20,900.0                                | 90.00              | 270.52         | 9,300.0                     | -2,081.2        | -12,125.2       | 521,344.84                | 569,767.85               | 32° 25' 59.553 N | 104° 14' 28.259 W |  |
| 21,000.0                                | 90.00              | 270.52         | 9,300.0                     | -2,080.3        | -12,225.2       | 521,345.75                | 569,667.85               | 32° 25' 59.563 N | 104° 14' 29.426 W |  |
| 21,100.0                                | 90.00              | 270.52         | 9,300.0                     | -2,079.4        | -12,325.2       | 521,346.65                | 569,567.86               | 32° 25' 59.572 N | 104° 14' 30.593 W |  |
| 21,200.0                                | 90.00              | 270.52         | 9,300.0                     | -2,078.5        | -12,425.2       | 521,347.56                | 569,467.86               | 32° 25' 59.582 N | 104° 14' 31.760 W |  |
| 21,300.0                                | 90.00              | 270.52         | 9,300.0                     | -2,077.6        | -12,525.2       | 521,348.47                | 569,367.86               | 32° 25' 59.592 N | 104° 14' 32.926 W |  |
| 21,400.0                                | 90.00              | 270.52         | 9,300.0                     | -2,076.7        | -12,625.2       | 521,349.38                | 569,267.87               | 32° 25' 59.602 N | 104° 14' 34.093 W |  |
| 21,500.0                                | 90.00              | 270.52         | 9,300.0                     | -2,075.8        | -12,725.2       | 521,350.29                | 569,167.87               | 32° 25' 59.612 N | 104° 14' 35.260 W |  |
| 21,600.0                                | 90.00              | 270.52         | 9,300.0                     | -2,074.9        | -12,825.2       | 521,351.19                | 569,067.88               | 32° 25' 59.622 N | 104° 14' 36.427 W |  |
| 21,700.0                                | 90.00              | 270.52         | 9,300.0                     | -2,074.0        | -12,925.2       | 521,352.10                | 568,967.88               | 32° 25' 59.631 N | 104° 14' 37.594 W |  |
| 21,800.0                                | 90.00              | 270.52         | 9,300.0                     | -2,073.1        | -13,025.2       | 521,353.01                | 568,867.88               | 32° 25' 59.641 N | 104° 14' 38.760 W |  |
| 21,900.0                                | 90.00              | 270.52         | 9,300.0                     | -2,072.2        | -13,125.2       | 521,353.92                | 568,767.89               | 32° 25' 59.651 N | 104° 14' 39.927 W |  |
| 22,000.0                                | 90.00              | 270.52         | 9,300.0                     | -2,071.2        | -13,225.2       | 521,354.82                | 568,667.89               | 32° 25' 59.661 N | 104° 14' 41.094 W |  |
| 22,100.0                                | 90.00              | 270.52         | 9,300.0                     | -2,070.3        | -13,325.2       | 521,355.73                | 568,567.90               | 32° 25' 59.671 N | 104° 14' 42.261 W |  |
| 22,200.0                                | 90.00              | 270.52         | 9,300.0                     | -2,069.4        | -13,425.2       | 521,356.64                | 568,467.90               | 32° 25' 59.680 N | 104° 14' 43.428 W |  |
| 22,300.0                                | 90.00              | 270.52         | 9,300.0                     | -2,068.5        | -13,525.2       | 521,357.55                | 568,367.91               | 32° 25' 59.690 N | 104° 14' 44.594 W |  |
| 22,400.0                                | 90.00              | 270.52         | 9,300.0                     | -2,067.6        | -13,625.2       | 521,358.46                | 568,267.91               | 32° 25' 59.700 N | 104° 14' 45.761 W |  |
| 22,500.0                                | 90.00              | 270.52         | 9,300.0                     | -2,066.7        | -13,725.2       | 521,359.36                | 568,167.91               | 32° 25' 59.710 N | 104° 14' 46.928 W |  |
| 22,600.0                                | 90.00              | 270.52         | 9,300.0                     | -2,065.8        | -13,825.2       | 521,360.27                | 568,067.92               | 32° 25' 59.720 N | 104° 14' 48.095 W |  |
| 22,700.0                                | 90.00              | 270.52         | 9,300.0                     | -2,064.9        | -13,925.2       | 521,361.18                | 567,967.92               | 32° 25' 59.729 N | 104° 14' 49.262 W |  |
| 22,800.0                                | 90.00              | 270.52         | 9,300.0                     | -2,064.0        | -14,025.2       | 521,362.09                | 567,867.93               | 32° 25' 59.739 N | 104° 14' 50.428 W |  |
| 22,900.0                                | 90.00              | 270.52         | 9,300.0                     | -2,063.1        | -14,125.2       | 521,362.99                | 567,767.93               | 32° 25' 59.749 N | 104° 14' 51.595 W |  |
| 23,000.0                                | 90.00              | 270.52         | 9,300.0                     | -2,062.2        | -14,225.2       | 521,363.90                | 567,667.93               | 32° 25' 59.759 N | 104° 14' 52.762 W |  |
| 23,100.0                                | 90.00              | 270.52         | 9,300.0                     | -2,061.3        | -14,325.2       | 521,364.81                | 567,567.94               | 32° 25' 59.769 N | 104° 14' 53.929 W |  |
| 23,200.0                                | 90.00              | 270.52         | 9,300.0                     | -2,060.4        | -14,425.1       | 521,365.72                | 567,467.94               | 32° 25' 59.778 N | 104° 14' 55.096 W |  |

# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey                   |                 |             |                       |              |              |                     |                    |                  |                   |  |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|-------------------|--|
| Measured Depth (usft)            | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude         |  |
| 23,300.0                         | 90.00           | 270.52      | 9,300.0               | -2,059.4     | -14,525.1    | 521,366.63          | 567,367.95         | 32° 25' 59.788 N | 104° 14' 56.262 W |  |
| 23,400.0                         | 90.00           | 270.52      | 9,300.0               | -2,058.5     | -14,625.1    | 521,367.53          | 567,267.95         | 32° 25' 59.798 N | 104° 14' 57.429 W |  |
| 23,500.0                         | 90.00           | 270.52      | 9,300.0               | -2,057.6     | -14,725.1    | 521,368.44          | 567,167.95         | 32° 25' 59.808 N | 104° 14' 58.596 W |  |
| 23,600.0                         | 90.00           | 270.52      | 9,300.0               | -2,056.7     | -14,825.1    | 521,369.35          | 567,067.96         | 32° 25' 59.817 N | 104° 14' 59.763 W |  |
| 23,700.0                         | 90.00           | 270.52      | 9,300.0               | -2,055.8     | -14,925.1    | 521,370.26          | 566,967.96         | 32° 25' 59.827 N | 104° 15' 0.930 W  |  |
| 23,800.0                         | 90.00           | 270.52      | 9,300.0               | -2,054.9     | -15,025.1    | 521,371.17          | 566,867.97         | 32° 25' 59.837 N | 104° 15' 2.096 W  |  |
| 23,900.0                         | 90.00           | 270.52      | 9,300.0               | -2,054.0     | -15,125.1    | 521,372.07          | 566,767.97         | 32° 25' 59.847 N | 104° 15' 3.263 W  |  |
| 24,000.0                         | 90.00           | 270.52      | 9,300.0               | -2,053.1     | -15,225.1    | 521,372.98          | 566,667.98         | 32° 25' 59.856 N | 104° 15' 4.430 W  |  |
| 24,100.0                         | 90.00           | 270.52      | 9,300.0               | -2,052.2     | -15,325.1    | 521,373.89          | 566,567.98         | 32° 25' 59.866 N | 104° 15' 5.597 W  |  |
| 24,200.0                         | 90.00           | 270.52      | 9,300.0               | -2,051.3     | -15,425.1    | 521,374.80          | 566,467.98         | 32° 25' 59.876 N | 104° 15' 6.764 W  |  |
| 24,300.0                         | 90.00           | 270.52      | 9,300.0               | -2,050.4     | -15,525.1    | 521,375.70          | 566,367.99         | 32° 25' 59.886 N | 104° 15' 7.930 W  |  |
| 24,400.0                         | 90.00           | 270.52      | 9,300.0               | -2,049.5     | -15,625.1    | 521,376.61          | 566,267.99         | 32° 25' 59.895 N | 104° 15' 9.097 W  |  |
| 24,500.0                         | 90.00           | 270.52      | 9,300.0               | -2,048.6     | -15,725.1    | 521,377.52          | 566,168.00         | 32° 25' 59.905 N | 104° 15' 10.264 W |  |
| 24,600.0                         | 90.00           | 270.52      | 9,300.0               | -2,047.6     | -15,825.1    | 521,378.43          | 566,068.00         | 32° 25' 59.915 N | 104° 15' 11.431 W |  |
| 24,700.0                         | 90.00           | 270.52      | 9,300.0               | -2,046.7     | -15,925.1    | 521,379.34          | 565,968.00         | 32° 25' 59.924 N | 104° 15' 12.598 W |  |
| 24,800.0                         | 90.00           | 270.52      | 9,300.0               | -2,045.8     | -16,025.1    | 521,380.24          | 565,868.01         | 32° 25' 59.934 N | 104° 15' 13.764 W |  |
| 24,900.0                         | 90.00           | 270.52      | 9,300.0               | -2,044.9     | -16,125.1    | 521,381.15          | 565,768.01         | 32° 25' 59.944 N | 104° 15' 14.931 W |  |
| 24,911.1                         | 90.00           | 270.52      | 9,300.0               | -2,044.8     | -16,136.2    | 521,381.25          | 565,756.92         | 32° 25' 59.945 N | 104° 15' 15.061 W |  |
| TD at 24911.1 - LTP/BHL-FSC 423H |                 |             |                       |              |              |                     |                    |                  |                   |  |

| Design Targets                                                                                                         |               |              |            |              |              |                 |                |                  |                   |  |
|------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|--|
| Target Name                                                                                                            | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |  |
| PP2-FSC 423H<br>- hit/miss target<br>- Shape                                                                           | 0.00          | 0.00         | 9,300.0    | -2,090.5     | -10,990.7    | 521,335.57      | 570,902.39     | 32° 25' 59.451 N | 104° 14' 15.021 W |  |
| LTP/BHL-FSC 423H<br>- plan hits target center<br>- Point                                                               | 0.00          | 0.00         | 9,300.0    | -2,044.8     | -16,136.2    | 521,381.25      | 565,756.92     | 32° 25' 59.945 N | 104° 15' 15.061 W |  |
| FTP-FSC 423H<br>- plan misses target center by 197.8usft at 9469.8usft MD (9161.6 TVD, -1908.2 N, -733.5 E)<br>- Point | 0.00          | 0.00         | 9,300.0    | -1,905.7     | -592.1       | 521,520.40      | 581,300.97     | 32° 26' 1.172 N  | 104° 12' 13.682 W |  |

| Plan Annotations      |                       |                   |              |                                 |  |
|-----------------------|-----------------------|-------------------|--------------|---------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                         |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) |                                 |  |
| 1,000.0               | 1,000.0               | 0.0               | 0.0          | Start Build 2.00                |  |
| 1,800.6               | 1,790.2               | -106.1            | -33.0        | Start 6429.0 hold at 1800.6 MD  |  |
| 8,229.6               | 7,969.8               | -1,799.5          | -559.1       | Start Drop -2.00                |  |
| 9,030.2               | 8,760.0               | -1,905.7          | -592.1       | Start 62.5 hold at 9030.2 MD    |  |
| 9,092.7               | 8,822.5               | -1,905.7          | -592.1       | Start DLS 12.00 TFO 268.98      |  |
| 9,842.6               | 9,300.0               | -1,914.2          | -1,069.5     | Start 9922.8 hold at 9842.6 MD  |  |
| 19,765.4              | 9,300.0               | -2,090.5          | -10,990.7    | Start DLS 2.00 TFO 89.99        |  |
| 19,842.3              | 9,300.0               | -2,090.8          | -11,067.6    | Start 5068.8 hold at 19842.3 MD |  |
| 24,911.1              | 9,300.0               | -2,044.8          | -16,136.2    | TD at 24911.1                   |  |

# **PERMIAN**

## **R E S O U R C E S**

### **NEW MEXICO**

**(SP) EDDY**

**FRED PROJECT**

**FRED STATE COM 423H**

**OWB**

**PWP0**

## **Anticollision Report**

**03 April, 2025**

PERMIAN  
RESOURCES

Anticollision Report

|                    |                     |                              |                          |
|--------------------|---------------------|------------------------------|--------------------------|
| Company:           | NEW MEXICO          | Local Co-ordinate Reference: | Well FRED STATE COM 423H |
| Project:           | (SP) EDDY           | TVD Reference:               | KB @ 3147.0usft          |
| Reference Site:    | FRED PROJECT        | MD Reference:                | KB @ 3147.0usft          |
| Site Error:        | 0.0 usft            | North Reference:             | Grid                     |
| Reference Well:    | FRED STATE COM 423H | Survey Calculation Method:   | Minimum Curvature        |
| Well Error:        | 0.0 usft            | Output errors are at         | 2.00 sigma               |
| Reference Wellbore | OWB                 | Database:                    | Compass_17               |
| Reference Design:  | PWP0                | Offset TVD Reference:        | Offset Datum             |

| Reference                    | PWP0                                                                |                |                     |
|------------------------------|---------------------------------------------------------------------|----------------|---------------------|
| Filter type:                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                |                     |
| Interpolation Method:        | Stations                                                            | Error Model:   | ISCWSA              |
| Depth Range:                 | Unlimited                                                           | Scan Method:   | Closest Approach 3D |
| Results Limited by:          | Maximum centre distance of 1,000.0usft                              | Error Surface: | Pedal Curve         |
| Warning Levels Evaluated at: | 2.00 Sigma                                                          | Casing Method: | Not applied         |

| Survey Tool Program |              | Date              | 4/3/2025  |                           |  |
|---------------------|--------------|-------------------|-----------|---------------------------|--|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore) | Tool Name | Description               |  |
| 0.0                 | 24,911.1     | PWP0 (OWB)        | MWD       | OWSG_Rev2_ MWD - Standard |  |

| Summary                                      |           |          |          |          |            |         |
|----------------------------------------------|-----------|----------|----------|----------|------------|---------|
| Site Name<br>Offset Well - Wellbore - Design | Reference | Offset   | Distance |          | Separation | Warning |
|                                              | Measured  | Measured | Between  | Between  |            |         |
|                                              | Depth     | Depth    | Centres  | Ellipses | Factor     |         |
| FRED PROJECT                                 |           |          |          |          |            |         |
| FRED STATE COM 421H - OWB - PWP0             | 1,000.0   | 1,000.0  | 60.0     | 53.0     | 8.628      | CC      |
| FRED STATE COM 421H - OWB - PWP0             | 1,100.0   | 1,098.7  | 60.6     | 53.0     | 7.926      | ES      |
| FRED STATE COM 421H - OWB - PWP0             | 1,200.0   | 1,196.8  | 63.3     | 54.9     | 7.607      | SF      |
| FRED STATE COM 422H - OWB - PWP0             | 1,000.0   | 1,000.0  | 30.0     | 23.0     | 4.314      | CC, ES  |
| FRED STATE COM 422H - OWB - PWP0             | 1,200.0   | 1,198.5  | 32.8     | 24.5     | 3.953      | SF      |
| FRED STATE COM 424H - OWB - PWP0             | 1,000.0   | 1,000.0  | 30.0     | 23.0     | 4.314      | CC      |
| FRED STATE COM 424H - OWB - PWP0             | 1,200.0   | 1,200.4  | 30.8     | 22.5     | 3.710      | ES      |
| FRED STATE COM 424H - OWB - PWP0             | 2,000.0   | 2,001.2  | 48.2     | 33.5     | 3.279      | SF      |

| Offset Design:        |                       | FRED PROJECT - FRED STATE COM 421H - OWB - PWP0 |                       |                        |               |                       |              |                |                        |                         |                           |                   | Offset Site Error: |                    | 0.0 usft |          |  |
|-----------------------|-----------------------|-------------------------------------------------|-----------------------|------------------------|---------------|-----------------------|--------------|----------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|--------------------|----------|----------|--|
| Survey Program:       |                       | 0-MWD                                           |                       |                        |               |                       |              | Rule Assigned: |                        |                         |                           |                   |                    | Offset Well Error: |          | 0.0 usft |  |
| Reference             | Offset                | Semi Major Axis                                 |                       | Offset Wellbore Centre |               | Distance              |              |                |                        | Warning                 |                           |                   |                    |                    |          |          |  |
| Measured Depth (usft) | Vertical Depth (usft) | Measured Depth (usft)                           | Vertical Depth (usft) | Reference (usft)       | Offset (usft) | Highside Toolface (°) | +N/-S (usft) | +E/-W (usft)   | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |                    |          |          |  |
| 0.0                   | 0.0                   | 0.0                                             | 0.0                   | 0.0                    | 0.0           | -90.00                | 0.0          | -60.0          | 60.0                   |                         |                           |                   |                    |                    |          |          |  |
| 100.0                 | 100.0                 | 100.0                                           | 100.0                 | 0.3                    | 0.3           | -90.00                | 0.0          | -60.0          | 60.0                   | 59.5                    | 0.50                      | 119.555           |                    |                    |          |          |  |
| 200.0                 | 200.0                 | 200.0                                           | 200.0                 | 0.6                    | 0.6           | -90.00                | 0.0          | -60.0          | 60.0                   | 58.8                    | 1.22                      | 49.229            |                    |                    |          |          |  |
| 300.0                 | 300.0                 | 300.0                                           | 300.0                 | 1.0                    | 1.0           | -90.00                | 0.0          | -60.0          | 60.0                   | 58.1                    | 1.94                      | 30.996            |                    |                    |          |          |  |
| 400.0                 | 400.0                 | 400.0                                           | 400.0                 | 1.3                    | 1.3           | -90.00                | 0.0          | -60.0          | 60.0                   | 57.3                    | 2.65                      | 22.619            |                    |                    |          |          |  |
| 500.0                 | 500.0                 | 500.0                                           | 500.0                 | 1.7                    | 1.7           | -90.00                | 0.0          | -60.0          | 60.0                   | 56.6                    | 3.37                      | 17.806            |                    |                    |          |          |  |
| 600.0                 | 600.0                 | 600.0                                           | 600.0                 | 2.0                    | 2.0           | -90.00                | 0.0          | -60.0          | 60.0                   | 55.9                    | 4.09                      | 14.682            |                    |                    |          |          |  |
| 700.0                 | 700.0                 | 700.0                                           | 700.0                 | 2.4                    | 2.4           | -90.00                | 0.0          | -60.0          | 60.0                   | 55.2                    | 4.80                      | 12.491            |                    |                    |          |          |  |
| 800.0                 | 800.0                 | 800.0                                           | 800.0                 | 2.8                    | 2.8           | -90.00                | 0.0          | -60.0          | 60.0                   | 54.5                    | 5.52                      | 10.869            |                    |                    |          |          |  |
| 900.0                 | 900.0                 | 900.0                                           | 900.0                 | 3.1                    | 3.1           | -90.00                | 0.0          | -60.0          | 60.0                   | 53.8                    | 6.24                      | 9.619             |                    |                    |          |          |  |
| 1,000.0               | 1,000.0               | 1,000.0                                         | 1,000.0               | 3.5                    | 3.5           | -90.00                | 0.0          | -60.0          | 60.0                   | 53.0                    | 6.95                      | 8.628             | CC                 |                    |          |          |  |
| 1,100.0               | 1,100.0               | 1,098.7                                         | 1,098.6               | 3.8                    | 3.8           | 75.56                 | 1.4          | -61.0          | 60.6                   | 53.0                    | 7.65                      | 7.926             | ES                 |                    |          |          |  |
| 1,200.0               | 1,199.8               | 1,196.8                                         | 1,196.6               | 4.1                    | 4.2           | 83.55                 | 5.4          | -64.1          | 63.3                   | 54.9                    | 8.32                      | 7.607             | SF                 |                    |          |          |  |
| 1,300.0               | 1,299.5               | 1,293.7                                         | 1,293.2               | 4.5                    | 4.5           | 94.90                 | 12.0         | -69.1          | 70.1                   | 61.1                    | 8.98                      | 7.809             |                    |                    |          |          |  |
| 1,400.0               | 1,398.7               | 1,390.3                                         | 1,389.1               | 4.8                    | 4.9           | 106.81                | 20.9         | -75.8          | 83.2                   | 73.5                    | 9.65                      | 8.615             |                    |                    |          |          |  |
| 1,500.0               | 1,497.5               | 1,487.2                                         | 1,485.3               | 5.2                    | 5.2           | 117.03                | 30.2         | -82.9          | 101.0                  | 90.7                    | 10.35                     | 9.759             |                    |                    |          |          |  |
| 1,600.0               | 1,595.6               | 1,583.3                                         | 1,580.7               | 5.6                    | 5.6           | 125.23                | 39.5         | -89.9          | 123.2                  | 112.1                   | 11.06                     | 11.141            |                    |                    |          |          |  |
| 1,700.0               | 1,693.1               | 1,678.4                                         | 1,675.2               | 6.0                    | 6.0           | 131.74                | 48.7         | -96.9          | 149.5                  | 137.7                   | 11.77                     | 12.701            |                    |                    |          |          |  |
| 1,800.6               | 1,790.2               | 1,773.0                                         | 1,769.0               | 6.4                    | 6.3           | 136.94                | 57.8         | -103.8         | 179.8                  | 167.3                   | 12.49                     | 14.403            |                    |                    |          |          |  |
| 1,900.0               | 1,885.8               | 1,866.0                                         | 1,861.3               | 6.9                    | 6.7           | 141.23                | 66.8         | -110.6         | 212.3                  | 199.1                   | 13.19                     | 16.089            |                    |                    |          |          |  |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# PERMIAN

## RESOURCES

### Anticollision Report

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

| <b>Offset Design:</b> FRED PROJECT - FRED STATE COM 421H - OWB - PWP0 |                          |                          |                          |                     |                                     |                             |                                           |                 |                                          |                               |                                 | <b>Offset Site Error:</b> | 0.0 usft |
|-----------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|---------------------|-------------------------------------|-----------------------------|-------------------------------------------|-----------------|------------------------------------------|-------------------------------|---------------------------------|---------------------------|----------|
| <b>Survey Program:</b> 0-MWD                                          |                          |                          |                          |                     |                                     |                             |                                           |                 |                                          |                               |                                 | <b>Offset Well Error:</b> | 0.0 usft |
| Measured Depth<br>(usft)                                              | Vertical Depth<br>(usft) | Measured Depth<br>(usft) | Vertical Depth<br>(usft) | Reference<br>(usft) | Semi Major Axis<br>Offset<br>(usft) | Highside<br>Toolface<br>(°) | Offset Wellbore Centre<br>+N/-S<br>(usft) | +E/-W<br>(usft) | Distance<br>Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) | Minimum<br>Separation<br>(usft) | Separation<br>Factor      | Warning  |
| 2,000.0                                                               | 1,981.9                  | 1,959.4                  | 1,954.1                  | 7.3                 | 7.0                                 | 144.41                      | 75.8                                      | -117.4          | 245.7                                    | 231.8                         | 13.91                           | 17.670                    |          |
| 2,100.0                                                               | 2,078.0                  | 2,052.9                  | 2,046.9                  | 7.8                 | 7.4                                 | 146.83                      | 84.8                                      | -124.2          | 279.7                                    | 265.0                         | 14.62                           | 19.128                    |          |
| 2,200.0                                                               | 2,174.1                  | 2,146.4                  | 2,139.7                  | 8.3                 | 7.8                                 | 148.73                      | 93.8                                      | -131.1          | 314.0                                    | 298.6                         | 15.34                           | 20.469                    |          |
| 2,300.0                                                               | 2,270.2                  | 2,239.9                  | 2,232.5                  | 8.8                 | 8.1                                 | 150.26                      | 102.8                                     | -137.9          | 348.5                                    | 332.5                         | 16.06                           | 21.701                    |          |
| 2,400.0                                                               | 2,366.4                  | 2,333.3                  | 2,325.2                  | 9.3                 | 8.5                                 | 151.51                      | 111.8                                     | -144.7          | 383.3                                    | 366.5                         | 16.78                           | 22.834                    |          |
| 2,500.0                                                               | 2,462.5                  | 2,426.8                  | 2,418.0                  | 9.9                 | 8.9                                 | 152.55                      | 120.8                                     | -151.6          | 418.1                                    | 400.6                         | 17.51                           | 23.878                    |          |
| 2,600.0                                                               | 2,558.6                  | 2,520.3                  | 2,510.8                  | 10.4                | 9.2                                 | 153.44                      | 129.9                                     | -158.4          | 453.1                                    | 434.9                         | 18.24                           | 24.840                    |          |
| 2,700.0                                                               | 2,654.7                  | 2,613.8                  | 2,603.6                  | 10.9                | 9.6                                 | 154.19                      | 138.9                                     | -165.2          | 488.2                                    | 469.2                         | 18.97                           | 25.731                    |          |
| 2,800.0                                                               | 2,750.9                  | 2,707.2                  | 2,696.4                  | 11.4                | 10.0                                | 154.85                      | 147.9                                     | -172.1          | 523.3                                    | 503.6                         | 19.70                           | 26.556                    |          |
| 2,900.0                                                               | 2,847.0                  | 2,800.7                  | 2,789.2                  | 12.0                | 10.3                                | 155.43                      | 156.9                                     | -178.9          | 558.4                                    | 538.0                         | 20.44                           | 27.321                    |          |
| 3,000.0                                                               | 2,943.1                  | 2,894.2                  | 2,882.0                  | 12.5                | 10.7                                | 155.93                      | 165.9                                     | -185.7          | 593.7                                    | 572.5                         | 21.18                           | 28.034                    |          |
| 3,100.0                                                               | 3,039.2                  | 2,987.6                  | 2,974.8                  | 13.1                | 11.1                                | 156.38                      | 174.9                                     | -192.5          | 628.9                                    | 607.0                         | 21.91                           | 28.699                    |          |
| 3,200.0                                                               | 3,135.3                  | 3,081.1                  | 3,067.5                  | 13.6                | 11.5                                | 156.78                      | 183.9                                     | -199.4          | 664.2                                    | 641.5                         | 22.65                           | 29.320                    |          |
| 3,300.0                                                               | 3,231.5                  | 3,174.6                  | 3,160.3                  | 14.2                | 11.8                                | 157.15                      | 192.9                                     | -206.2          | 699.5                                    | 676.1                         | 23.39                           | 29.901                    |          |
| 3,400.0                                                               | 3,327.6                  | 3,268.1                  | 3,253.1                  | 14.7                | 12.2                                | 157.47                      | 202.0                                     | -213.0          | 734.8                                    | 710.7                         | 24.14                           | 30.446                    |          |
| 3,500.0                                                               | 3,423.7                  | 3,361.5                  | 3,345.9                  | 15.3                | 12.6                                | 157.77                      | 211.0                                     | -219.9          | 770.2                                    | 745.3                         | 24.88                           | 30.958                    |          |
| 3,600.0                                                               | 3,519.8                  | 3,455.0                  | 3,438.7                  | 15.8                | 12.9                                | 158.04                      | 220.0                                     | -226.7          | 805.5                                    | 779.9                         | 25.62                           | 31.440                    |          |
| 3,700.0                                                               | 3,615.9                  | 3,548.5                  | 3,531.5                  | 16.4                | 13.3                                | 158.29                      | 229.0                                     | -233.5          | 840.9                                    | 814.5                         | 26.37                           | 31.894                    |          |
| 3,800.0                                                               | 3,712.1                  | 3,642.0                  | 3,624.3                  | 16.9                | 13.7                                | 158.52                      | 238.0                                     | -240.3          | 876.3                                    | 849.2                         | 27.11                           | 32.323                    |          |
| 3,900.0                                                               | 3,808.2                  | 3,735.4                  | 3,717.0                  | 17.5                | 14.1                                | 158.73                      | 247.0                                     | -247.2          | 911.7                                    | 883.8                         | 27.86                           | 32.728                    |          |
| 4,000.0                                                               | 3,904.3                  | 3,828.9                  | 3,809.8                  | 18.0                | 14.4                                | 158.92                      | 256.0                                     | -254.0          | 947.1                                    | 918.5                         | 28.60                           | 33.112                    |          |
| 4,100.0                                                               | 4,000.4                  | 3,922.4                  | 3,902.6                  | 18.6                | 14.8                                | 159.10                      | 265.1                                     | -260.8          | 982.5                                    | 953.2                         | 29.35                           | 33.476                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

**PERMIAN****RESOURCES****Anticollision Report**

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

|                                                                       |                              |                              |                              |                               |                      |                       |                     |                     |                               |                                |                                  |                           |                |
|-----------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|----------------------|-----------------------|---------------------|---------------------|-------------------------------|--------------------------------|----------------------------------|---------------------------|----------------|
| <b>Offset Design:</b> FRED PROJECT - FRED STATE COM 422H - OWB - PWP0 |                              |                              |                              |                               |                      |                       |                     |                     |                               |                                |                                  | <b>Offset Site Error:</b> | 0.0 usft       |
| <b>Survey Program:</b> 0-MWD                                          |                              |                              |                              |                               |                      |                       |                     |                     |                               |                                |                                  | <b>Offset Well Error:</b> | 0.0 usft       |
| <b>Reference</b>                                                      | <b>Offset</b>                | <b>Semi Major Axis</b>       | <b>Highside</b>              | <b>Offset Wellbore Centre</b> | <b>Distance</b>      | <b>Rule Assigned:</b> |                     |                     |                               |                                |                                  |                           |                |
| <b>Measured Depth (usft)</b>                                          | <b>Vertical Depth (usft)</b> | <b>Measured Depth (usft)</b> | <b>Vertical Depth (usft)</b> | <b>Reference (usft)</b>       | <b>Offset (usft)</b> | <b>Toolface (°)</b>   | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Between Centres (usft)</b> | <b>Between Ellipses (usft)</b> | <b>Minimum Separation (usft)</b> | <b>Separation Factor</b>  | <b>Warning</b> |
| 0.0                                                                   | 0.0                          | 0.0                          | 0.0                          | 0.0                           | 0.0                  | -90.00                | 0.0                 | -30.0               | 30.0                          |                                |                                  |                           |                |
| 100.0                                                                 | 100.0                        | 100.0                        | 100.0                        | 0.3                           | 0.3                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 29.5                           | 0.50                             | 59.778                    |                |
| 200.0                                                                 | 200.0                        | 200.0                        | 200.0                        | 0.6                           | 0.6                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 28.8                           | 1.22                             | 24.614                    |                |
| 300.0                                                                 | 300.0                        | 300.0                        | 300.0                        | 1.0                           | 1.0                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 28.1                           | 1.94                             | 15.498                    |                |
| 400.0                                                                 | 400.0                        | 400.0                        | 400.0                        | 1.3                           | 1.3                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 27.3                           | 2.65                             | 11.309                    |                |
| 500.0                                                                 | 500.0                        | 500.0                        | 500.0                        | 1.7                           | 1.7                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 26.6                           | 3.37                             | 8.903                     |                |
| 600.0                                                                 | 600.0                        | 600.0                        | 600.0                        | 2.0                           | 2.0                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 25.9                           | 4.09                             | 7.341                     |                |
| 700.0                                                                 | 700.0                        | 700.0                        | 700.0                        | 2.4                           | 2.4                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 25.2                           | 4.80                             | 6.245                     |                |
| 800.0                                                                 | 800.0                        | 800.0                        | 800.0                        | 2.8                           | 2.8                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 24.5                           | 5.52                             | 5.434                     |                |
| 900.0                                                                 | 900.0                        | 900.0                        | 900.0                        | 3.1                           | 3.1                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 23.8                           | 6.24                             | 4.810                     |                |
| 1,000.0                                                               | 1,000.0                      | 1,000.0                      | 1,000.0                      | 3.5                           | 3.5                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 23.0                           | 6.95                             | 4.314 CC, ES              |                |
| 1,100.0                                                               | 1,100.0                      | 1,099.3                      | 1,099.3                      | 3.8                           | 3.8                  | 73.49                 | -1.2                | -31.2               | 30.7                          | 23.0                           | 7.63                             | 4.019                     |                |
| 1,200.0                                                               | 1,199.8                      | 1,198.5                      | 1,198.4                      | 4.1                           | 4.1                  | 75.56                 | -5.0                | -34.7               | 32.8                          | 24.5                           | 8.29                             | 3.953 SF                  |                |
| 1,300.0                                                               | 1,299.5                      | 1,297.7                      | 1,297.1                      | 4.5                           | 4.5                  | 78.47                 | -11.2               | -40.7               | 36.3                          | 27.3                           | 8.95                             | 4.055                     |                |
| 1,400.0                                                               | 1,398.7                      | 1,397.1                      | 1,395.9                      | 4.8                           | 4.8                  | 82.08                 | -19.6               | -48.8               | 41.2                          | 31.5                           | 9.64                             | 4.272                     |                |
| 1,500.0                                                               | 1,497.5                      | 1,496.8                      | 1,494.8                      | 5.2                           | 5.2                  | 88.63                 | -28.5               | -57.2               | 46.3                          | 35.9                           | 10.36                            | 4.465                     |                |
| 1,600.0                                                               | 1,595.6                      | 1,596.3                      | 1,593.6                      | 5.6                           | 5.6                  | 97.59                 | -37.3               | -65.7               | 52.2                          | 41.1                           | 11.12                            | 4.697                     |                |
| 1,700.0                                                               | 1,693.1                      | 1,695.5                      | 1,692.0                      | 6.0                           | 5.9                  | 107.71                | -46.1               | -74.1               | 60.2                          | 48.3                           | 11.89                            | 5.061                     |                |
| 1,800.6                                                               | 1,790.2                      | 1,794.8                      | 1,790.5                      | 6.4                           | 6.3                  | 117.78                | -55.0               | -82.5               | 71.2                          | 58.6                           | 12.67                            | 5.621                     |                |
| 1,900.0                                                               | 1,885.8                      | 1,892.6                      | 1,887.7                      | 6.9                           | 6.7                  | 126.03                | -63.7               | -90.8               | 84.8                          | 71.4                           | 13.43                            | 6.312                     |                |
| 2,000.0                                                               | 1,981.9                      | 1,991.1                      | 1,985.3                      | 7.3                           | 7.1                  | 131.97                | -72.4               | -99.2               | 99.7                          | 85.5                           | 14.20                            | 7.024                     |                |
| 2,100.0                                                               | 2,078.0                      | 2,089.5                      | 2,083.0                      | 7.8                           | 7.4                  | 136.35                | -81.2               | -107.6              | 115.4                         | 100.4                          | 14.96                            | 7.716                     |                |
| 2,200.0                                                               | 2,174.1                      | 2,187.9                      | 2,180.7                      | 8.3                           | 7.8                  | 139.66                | -89.9               | -115.9              | 131.6                         | 115.9                          | 15.72                            | 8.372                     |                |
| 2,300.0                                                               | 2,270.2                      | 2,286.4                      | 2,278.4                      | 8.8                           | 8.2                  | 142.25                | -98.7               | -124.3              | 148.1                         | 131.6                          | 16.48                            | 8.987                     |                |
| 2,400.0                                                               | 2,366.4                      | 2,384.8                      | 2,376.1                      | 9.3                           | 8.6                  | 144.32                | -107.4              | -132.6              | 164.9                         | 147.6                          | 17.25                            | 9.560                     |                |
| 2,500.0                                                               | 2,462.5                      | 2,483.2                      | 2,473.7                      | 9.9                           | 9.0                  | 146.00                | -116.2              | -141.0              | 181.8                         | 163.8                          | 18.02                            | 10.092                    |                |
| 2,600.0                                                               | 2,558.6                      | 2,581.6                      | 2,571.4                      | 10.4                          | 9.4                  | 147.40                | -124.9              | -149.4              | 198.9                         | 180.1                          | 18.79                            | 10.585                    |                |
| 2,700.0                                                               | 2,654.7                      | 2,680.1                      | 2,669.1                      | 10.9                          | 9.8                  | 148.57                | -133.6              | -157.7              | 216.0                         | 196.5                          | 19.56                            | 11.044                    |                |
| 2,800.0                                                               | 2,750.9                      | 2,778.5                      | 2,766.8                      | 11.4                          | 10.2                 | 149.58                | -142.4              | -166.1              | 233.3                         | 212.9                          | 20.34                            | 11.470                    |                |
| 2,900.0                                                               | 2,847.0                      | 2,876.9                      | 2,864.5                      | 12.0                          | 10.5                 | 150.44                | -151.1              | -174.4              | 250.5                         | 229.4                          | 21.11                            | 11.866                    |                |
| 3,000.0                                                               | 2,943.1                      | 2,975.3                      | 2,962.2                      | 12.5                          | 10.9                 | 151.19                | -159.9              | -182.8              | 267.9                         | 246.0                          | 21.89                            | 12.236                    |                |
| 3,100.0                                                               | 3,039.2                      | 3,073.8                      | 3,059.8                      | 13.1                          | 11.3                 | 151.86                | -168.6              | -191.2              | 285.3                         | 262.6                          | 22.67                            | 12.581                    |                |
| 3,200.0                                                               | 3,135.3                      | 3,172.2                      | 3,157.5                      | 13.6                          | 11.7                 | 152.44                | -177.4              | -199.5              | 302.7                         | 279.2                          | 23.46                            | 12.903                    |                |
| 3,300.0                                                               | 3,231.5                      | 3,270.6                      | 3,255.2                      | 14.2                          | 12.1                 | 152.96                | -186.1              | -207.9              | 320.1                         | 295.9                          | 24.24                            | 13.206                    |                |
| 3,400.0                                                               | 3,327.6                      | 3,369.1                      | 3,352.9                      | 14.7                          | 12.5                 | 153.43                | -194.9              | -216.2              | 337.6                         | 312.6                          | 25.03                            | 13.489                    |                |
| 3,500.0                                                               | 3,423.7                      | 3,467.5                      | 3,450.6                      | 15.3                          | 12.9                 | 153.85                | -203.6              | -224.6              | 355.1                         | 329.3                          | 25.81                            | 13.755                    |                |
| 3,600.0                                                               | 3,519.8                      | 3,565.9                      | 3,548.2                      | 15.8                          | 13.3                 | 154.24                | -212.4              | -233.0              | 372.6                         | 346.0                          | 26.60                            | 14.006                    |                |
| 3,700.0                                                               | 3,615.9                      | 3,664.3                      | 3,645.9                      | 16.4                          | 13.7                 | 154.58                | -221.1              | -241.3              | 390.1                         | 362.7                          | 27.39                            | 14.243                    |                |
| 3,800.0                                                               | 3,712.1                      | 3,762.8                      | 3,743.6                      | 16.9                          | 14.1                 | 154.90                | -229.9              | -249.7              | 407.6                         | 379.4                          | 28.18                            | 14.466                    |                |
| 3,900.0                                                               | 3,808.2                      | 3,861.2                      | 3,841.3                      | 17.5                          | 14.5                 | 155.19                | -238.6              | -258.0              | 425.1                         | 396.2                          | 28.97                            | 14.677                    |                |
| 4,000.0                                                               | 3,904.3                      | 3,959.6                      | 3,939.0                      | 18.0                          | 14.9                 | 155.46                | -247.4              | -266.4              | 442.7                         | 412.9                          | 29.76                            | 14.877                    |                |
| 4,100.0                                                               | 4,000.4                      | 4,058.1                      | 4,036.6                      | 18.6                          | 15.3                 | 155.71                | -256.1              | -274.8              | 460.3                         | 429.7                          | 30.55                            | 15.066                    |                |
| 4,200.0                                                               | 4,096.5                      | 4,156.5                      | 4,134.3                      | 19.1                          | 15.7                 | 155.94                | -264.9              | -283.1              | 477.8                         | 446.5                          | 31.34                            | 15.246                    |                |
| 4,300.0                                                               | 4,192.7                      | 4,254.9                      | 4,232.0                      | 19.7                          | 16.1                 | 156.15                | -273.6              | -291.5              | 495.4                         | 463.3                          | 32.13                            | 15.417                    |                |
| 4,400.0                                                               | 4,288.8                      | 4,353.3                      | 4,329.7                      | 20.3                          | 16.5                 | 156.35                | -282.4              | -299.8              | 513.0                         | 480.0                          | 32.93                            | 15.579                    |                |
| 4,500.0                                                               | 4,384.9                      | 4,451.8                      | 4,427.4                      | 20.8                          | 16.9                 | 156.54                | -291.1              | -308.2              | 530.5                         | 496.8                          | 33.72                            | 15.734                    |                |
| 4,600.0                                                               | 4,481.0                      | 4,550.2                      | 4,525.1                      | 21.4                          | 17.3                 | 156.71                | -299.9              | -316.5              | 548.1                         | 513.6                          | 34.51                            | 15.882                    |                |
| 4,700.0                                                               | 4,577.1                      | 4,648.6                      | 4,622.7                      | 21.9                          | 17.7                 | 156.88                | -308.6              | -324.9              | 565.7                         | 530.4                          | 35.31                            | 16.023                    |                |
| 4,800.0                                                               | 4,673.3                      | 4,747.1                      | 4,720.4                      | 22.5                          | 18.1                 | 157.03                | -317.4              | -333.3              | 583.3                         | 547.2                          | 36.10                            | 16.158                    |                |
| 4,900.0                                                               | 4,769.4                      | 4,845.5                      | 4,818.1                      | 23.1                          | 18.5                 | 157.17                | -326.1              | -341.6              | 600.9                         | 564.0                          | 36.90                            | 16.286                    |                |
| 5,000.0                                                               | 4,865.5                      | 4,943.9                      | 4,915.8                      | 23.6                          | 18.9                 | 157.31                | -334.9              | -350.0              | 618.5                         | 580.8                          | 37.69                            | 16.410                    |                |
| 5,100.0                                                               | 4,961.6                      | 5,042.3                      | 5,013.5                      | 24.2                          | 19.3                 | 157.44                | -343.6              | -358.3              | 636.1                         | 597.7                          | 38.49                            | 16.528                    |                |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# PERMIAN

## RESOURCES

### Anticollision Report

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

|                                                                       |                                  |                                  |                                  |                             |                          |                                  |                               |                         |                                   |                                    |                                      |                           |                |
|-----------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------|--------------------------|----------------------------------|-------------------------------|-------------------------|-----------------------------------|------------------------------------|--------------------------------------|---------------------------|----------------|
| <b>Offset Design:</b> FRED PROJECT - FRED STATE COM 422H - OWB - PWP0 |                                  |                                  |                                  |                             |                          |                                  |                               |                         |                                   |                                    |                                      | <b>Offset Site Error:</b> | 0.0 usft       |
| <b>Survey Program:</b> 0-MWD                                          |                                  |                                  |                                  |                             |                          |                                  |                               |                         |                                   |                                    |                                      | <b>Offset Well Error:</b> | 0.0 usft       |
| <b>Reference</b>                                                      |                                  | <b>Offset</b>                    |                                  | <b>Semi Major Axis</b>      |                          | <b>Highside Toolface<br/>(°)</b> | <b>Offset Wellbore Centre</b> |                         | <b>Distance</b>                   |                                    | <b>Minimum Separation<br/>(usft)</b> | <b>Separation Factor</b>  | <b>Warning</b> |
| <b>Measured Depth<br/>(usft)</b>                                      | <b>Vertical Depth<br/>(usft)</b> | <b>Measured Depth<br/>(usft)</b> | <b>Vertical Depth<br/>(usft)</b> | <b>Reference<br/>(usft)</b> | <b>Offset<br/>(usft)</b> |                                  | <b>+N/-S<br/>(usft)</b>       | <b>+E/-W<br/>(usft)</b> | <b>Between Centres<br/>(usft)</b> | <b>Between Ellipses<br/>(usft)</b> |                                      |                           |                |
| 5,200.0                                                               | 5,057.8                          | 5,140.8                          | 5,111.1                          | 24.8                        | 19.7                     | 157.56                           | -352.3                        | -366.7                  | 653.8                             | 614.5                              | 39.28                                | 16.641                    |                |
| 5,300.0                                                               | 5,153.9                          | 5,239.2                          | 5,208.8                          | 25.3                        | 20.1                     | 157.68                           | -361.1                        | -375.1                  | 671.4                             | 631.3                              | 40.08                                | 16.750                    |                |
| 5,400.0                                                               | 5,250.0                          | 5,337.6                          | 5,306.5                          | 25.9                        | 20.5                     | 157.78                           | -369.8                        | -383.4                  | 689.0                             | 648.1                              | 40.88                                | 16.854                    |                |
| 5,500.0                                                               | 5,346.1                          | 5,436.0                          | 5,404.2                          | 26.5                        | 20.9                     | 157.89                           | -378.6                        | -391.8                  | 706.6                             | 664.9                              | 41.68                                | 16.955                    |                |
| 5,600.0                                                               | 5,442.2                          | 5,534.5                          | 5,501.9                          | 27.0                        | 21.3                     | 157.99                           | -387.3                        | -400.1                  | 724.2                             | 681.7                              | 42.47                                | 17.051                    |                |
| 5,700.0                                                               | 5,538.4                          | 5,632.9                          | 5,599.5                          | 27.6                        | 21.7                     | 158.08                           | -396.1                        | -408.5                  | 741.8                             | 698.6                              | 43.27                                | 17.144                    |                |
| 5,800.0                                                               | 5,634.5                          | 5,731.3                          | 5,697.2                          | 28.1                        | 22.1                     | 158.17                           | -404.8                        | -416.9                  | 759.5                             | 715.4                              | 44.07                                | 17.234                    |                |
| 5,900.0                                                               | 5,730.6                          | 5,829.8                          | 5,794.9                          | 28.7                        | 22.5                     | 158.26                           | -413.6                        | -425.2                  | 777.1                             | 732.2                              | 44.87                                | 17.320                    |                |
| 6,000.0                                                               | 5,826.7                          | 5,928.2                          | 5,892.6                          | 29.3                        | 22.9                     | 158.34                           | -422.3                        | -433.6                  | 794.7                             | 749.1                              | 45.66                                | 17.404                    |                |
| 6,100.0                                                               | 5,922.8                          | 6,026.6                          | 5,990.3                          | 29.8                        | 23.3                     | 158.42                           | -431.1                        | -441.9                  | 812.3                             | 765.9                              | 46.46                                | 17.484                    |                |
| 6,200.0                                                               | 6,019.0                          | 6,125.0                          | 6,088.0                          | 30.4                        | 23.7                     | 158.49                           | -439.8                        | -450.3                  | 830.0                             | 782.7                              | 47.26                                | 17.562                    |                |
| 6,300.0                                                               | 6,115.1                          | 6,223.5                          | 6,185.6                          | 31.0                        | 24.1                     | 158.56                           | -448.6                        | -458.7                  | 847.6                             | 799.5                              | 48.06                                | 17.636                    |                |
| 6,400.0                                                               | 6,211.2                          | 6,321.9                          | 6,283.3                          | 31.5                        | 24.5                     | 158.63                           | -457.3                        | -467.0                  | 865.2                             | 816.4                              | 48.86                                | 17.709                    |                |
| 6,500.0                                                               | 6,307.3                          | 6,420.3                          | 6,381.0                          | 32.1                        | 24.9                     | 158.70                           | -466.1                        | -475.4                  | 882.9                             | 833.2                              | 49.66                                | 17.779                    |                |
| 6,600.0                                                               | 6,403.4                          | 6,518.8                          | 6,478.7                          | 32.7                        | 25.3                     | 158.76                           | -474.8                        | -483.7                  | 900.5                             | 850.1                              | 50.46                                | 17.847                    |                |
| 6,700.0                                                               | 6,499.6                          | 6,617.2                          | 6,576.4                          | 33.2                        | 25.7                     | 158.82                           | -483.6                        | -492.1                  | 918.1                             | 866.9                              | 51.26                                | 17.913                    |                |
| 6,800.0                                                               | 6,595.7                          | 6,715.6                          | 6,674.0                          | 33.8                        | 26.1                     | 158.88                           | -492.3                        | -500.5                  | 935.8                             | 883.7                              | 52.06                                | 17.976                    |                |
| 6,900.0                                                               | 6,691.8                          | 6,814.0                          | 6,771.7                          | 34.4                        | 26.5                     | 158.94                           | -501.1                        | -508.8                  | 953.4                             | 900.6                              | 52.86                                | 18.038                    |                |
| 7,000.0                                                               | 6,787.9                          | 6,912.5                          | 6,869.4                          | 34.9                        | 26.9                     | 159.00                           | -509.8                        | -517.2                  | 971.1                             | 917.4                              | 53.66                                | 18.098                    |                |
| 7,100.0                                                               | 6,884.0                          | 7,010.9                          | 6,967.1                          | 35.5                        | 27.4                     | 159.05                           | -518.6                        | -525.5                  | 988.7                             | 934.2                              | 54.46                                | 18.156                    |                |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

**PERMIAN****RESOURCES****Anticollision Report**

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

| <b>Offset Design:</b> FRED PROJECT - FRED STATE COM 424H - OWB - PWP0 |                       |                       |                       |                  |               |                       |              |              |                        |                         |                           | <b>Offset Site Error:</b> | 0.0 usft |
|-----------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|--------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|----------|
| <b>Survey Program:</b> 0-MWD                                          |                       |                       |                       |                  |               |                       |              |              |                        |                         |                           | <b>Offset Well Error:</b> | 0.0 usft |
| Measured Depth (usft)                                                 | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         | Warning  |
| 0.0                                                                   | 0.0                   | 0.0                   | 0.0                   | 0.0              | 0.0           | 90.00                 | 0.0          | 30.0         | 30.0                   |                         |                           |                           |          |
| 100.0                                                                 | 100.0                 | 100.0                 | 100.0                 | 0.3              | 0.3           | 90.00                 | 0.0          | 30.0         | 30.0                   | 29.5                    | 0.50                      | 59.778                    |          |
| 200.0                                                                 | 200.0                 | 200.0                 | 200.0                 | 0.6              | 0.6           | 90.00                 | 0.0          | 30.0         | 30.0                   | 28.8                    | 1.22                      | 24.614                    |          |
| 300.0                                                                 | 300.0                 | 300.0                 | 300.0                 | 1.0              | 1.0           | 90.00                 | 0.0          | 30.0         | 30.0                   | 28.1                    | 1.94                      | 15.498                    |          |
| 400.0                                                                 | 400.0                 | 400.0                 | 400.0                 | 1.3              | 1.3           | 90.00                 | 0.0          | 30.0         | 30.0                   | 27.3                    | 2.65                      | 11.309                    |          |
| 500.0                                                                 | 500.0                 | 500.0                 | 500.0                 | 1.7              | 1.7           | 90.00                 | 0.0          | 30.0         | 30.0                   | 26.6                    | 3.37                      | 8.903                     |          |
| 600.0                                                                 | 600.0                 | 600.0                 | 600.0                 | 2.0              | 2.0           | 90.00                 | 0.0          | 30.0         | 30.0                   | 25.9                    | 4.09                      | 7.341                     |          |
| 700.0                                                                 | 700.0                 | 700.0                 | 700.0                 | 2.4              | 2.4           | 90.00                 | 0.0          | 30.0         | 30.0                   | 25.2                    | 4.80                      | 6.245                     |          |
| 800.0                                                                 | 800.0                 | 800.0                 | 800.0                 | 2.8              | 2.8           | 90.00                 | 0.0          | 30.0         | 30.0                   | 24.5                    | 5.52                      | 5.434                     |          |
| 900.0                                                                 | 900.0                 | 900.0                 | 900.0                 | 3.1              | 3.1           | 90.00                 | 0.0          | 30.0         | 30.0                   | 23.8                    | 6.24                      | 4.810                     |          |
| 1,000.0                                                               | 1,000.0               | 1,000.0               | 1,000.0               | 3.5              | 3.5           | 90.00                 | 0.0          | 30.0         | 30.0                   | 23.0                    | 6.95                      | 4.314 CC                  |          |
| 1,100.0                                                               | 1,100.0               | 1,100.2               | 1,100.2               | 3.8              | 3.8           | -107.16               | -1.7         | 29.7         | 30.2                   | 22.6                    | 7.64                      | 3.954                     |          |
| 1,200.0                                                               | 1,199.8               | 1,200.4               | 1,200.2               | 4.1              | 4.1           | -106.87               | -6.9         | 28.7         | 30.8                   | 22.5                    | 8.29                      | 3.710 ES                  |          |
| 1,300.0                                                               | 1,299.5               | 1,300.6               | 1,300.0               | 4.5              | 4.5           | -106.40               | -15.5        | 27.0         | 31.7                   | 22.8                    | 8.96                      | 3.538                     |          |
| 1,400.0                                                               | 1,398.7               | 1,400.8               | 1,399.5               | 4.8              | 4.8           | -105.79               | -27.5        | 24.8         | 33.0                   | 23.4                    | 9.66                      | 3.423                     |          |
| 1,500.0                                                               | 1,497.5               | 1,500.9               | 1,498.4               | 5.2              | 5.2           | -105.07               | -42.9        | 21.8         | 34.8                   | 24.4                    | 10.38                     | 3.350                     |          |
| 1,600.0                                                               | 1,595.6               | 1,601.1               | 1,596.7               | 5.6              | 5.6           | -104.29               | -61.7        | 18.2         | 36.9                   | 25.7                    | 11.14                     | 3.311                     |          |
| 1,700.0                                                               | 1,693.1               | 1,701.2               | 1,694.2               | 6.0              | 6.0           | -103.47               | -83.9        | 14.0         | 39.4                   | 27.4                    | 11.94                     | 3.295                     |          |
| 1,800.6                                                               | 1,790.2               | 1,801.9               | 1,791.5               | 6.4              | 6.4           | -102.64               | -109.5       | 9.1          | 42.2                   | 29.4                    | 12.81                     | 3.298                     |          |
| 1,900.0                                                               | 1,885.8               | 1,901.4               | 1,886.6               | 6.9              | 6.9           | -99.75                | -138.2       | 3.6          | 45.1                   | 31.4                    | 13.73                     | 3.288                     |          |
| 2,000.0                                                               | 1,981.9               | 2,001.2               | 1,981.0               | 7.3              | 7.4           | -93.08                | -170.1       | -2.5         | 48.2                   | 33.5                    | 14.71                     | 3.279 SF                  |          |
| 2,100.0                                                               | 2,078.0               | 2,100.6               | 2,073.7               | 7.8              | 7.9           | -83.58                | -205.1       | -9.1         | 52.5                   | 36.9                    | 15.67                     | 3.353                     |          |
| 2,200.0                                                               | 2,174.1               | 2,199.1               | 2,164.4               | 8.3              | 8.5           | -72.67                | -242.9       | -16.3        | 59.4                   | 42.9                    | 16.52                     | 3.595                     |          |
| 2,300.0                                                               | 2,270.2               | 2,296.8               | 2,252.9               | 8.8              | 9.1           | -61.96                | -283.4       | -24.1        | 69.8                   | 52.6                    | 17.18                     | 4.062                     |          |
| 2,400.0                                                               | 2,366.4               | 2,393.8               | 2,339.6               | 9.3              | 9.7           | -52.61                | -326.4       | -32.3        | 84.2                   | 66.5                    | 17.72                     | 4.750                     |          |
| 2,500.0                                                               | 2,462.5               | 2,491.8               | 2,426.7               | 9.9              | 10.4          | -45.72                | -370.5       | -40.7        | 100.8                  | 82.5                    | 18.33                     | 5.499                     |          |
| 2,600.0                                                               | 2,558.6               | 2,589.8               | 2,513.8               | 10.4             | 11.1          | -40.80                | -414.6       | -49.1        | 118.5                  | 99.5                    | 18.99                     | 6.236                     |          |
| 2,700.0                                                               | 2,654.7               | 2,687.8               | 2,600.9               | 10.9             | 11.8          | -37.18                | -458.7       | -57.5        | 136.7                  | 117.0                   | 19.70                     | 6.940                     |          |
| 2,800.0                                                               | 2,750.9               | 2,785.8               | 2,688.0               | 11.4             | 12.5          | -34.41                | -502.8       | -65.9        | 155.4                  | 135.0                   | 20.44                     | 7.602                     |          |
| 2,900.0                                                               | 2,847.0               | 2,883.8               | 2,775.1               | 12.0             | 13.3          | -32.23                | -547.0       | -74.3        | 174.4                  | 153.2                   | 21.21                     | 8.222                     |          |
| 3,000.0                                                               | 2,943.1               | 2,981.8               | 2,862.2               | 12.5             | 14.0          | -30.49                | -591.1       | -82.8        | 193.5                  | 171.5                   | 21.99                     | 8.799                     |          |
| 3,100.0                                                               | 3,039.2               | 3,079.8               | 2,949.3               | 13.1             | 14.7          | -29.06                | -635.2       | -91.2        | 212.8                  | 190.0                   | 22.79                     | 9.336                     |          |
| 3,200.0                                                               | 3,135.3               | 3,177.8               | 3,036.4               | 13.6             | 15.5          | -27.86                | -679.3       | -99.6        | 232.2                  | 208.6                   | 23.60                     | 9.837                     |          |
| 3,300.0                                                               | 3,231.5               | 3,275.8               | 3,123.5               | 14.2             | 16.2          | -26.85                | -723.4       | -108.0       | 251.7                  | 227.3                   | 24.43                     | 10.304                    |          |
| 3,400.0                                                               | 3,327.6               | 3,373.8               | 3,210.6               | 14.7             | 17.0          | -25.99                | -767.5       | -116.4       | 271.2                  | 246.0                   | 25.26                     | 10.739                    |          |
| 3,500.0                                                               | 3,423.7               | 3,471.8               | 3,297.7               | 15.3             | 17.8          | -25.24                | -811.6       | -124.8       | 290.8                  | 264.7                   | 26.09                     | 11.146                    |          |
| 3,600.0                                                               | 3,519.8               | 3,569.8               | 3,384.8               | 15.8             | 18.5          | -24.59                | -855.7       | -133.2       | 310.5                  | 283.5                   | 26.94                     | 11.526                    |          |
| 3,700.0                                                               | 3,615.9               | 3,667.8               | 3,471.9               | 16.4             | 19.3          | -24.01                | -899.8       | -141.7       | 330.1                  | 302.4                   | 27.78                     | 11.883                    |          |
| 3,800.0                                                               | 3,712.1               | 3,765.8               | 3,559.0               | 16.9             | 20.1          | -23.50                | -943.9       | -150.1       | 349.8                  | 321.2                   | 28.63                     | 12.218                    |          |
| 3,900.0                                                               | 3,808.2               | 3,863.8               | 3,646.1               | 17.5             | 20.8          | -23.04                | -988.0       | -158.5       | 369.6                  | 340.1                   | 29.49                     | 12.532                    |          |
| 4,000.0                                                               | 3,904.3               | 3,961.8               | 3,733.2               | 18.0             | 21.6          | -22.63                | -1,032.1     | -166.9       | 389.3                  | 359.0                   | 30.35                     | 12.828                    |          |
| 4,100.0                                                               | 4,000.4               | 4,059.8               | 3,820.3               | 18.6             | 22.4          | -22.26                | -1,076.2     | -175.3       | 409.1                  | 377.9                   | 31.21                     | 13.108                    |          |
| 4,200.0                                                               | 4,096.5               | 4,157.8               | 3,907.4               | 19.1             | 23.2          | -21.93                | -1,120.3     | -183.7       | 428.9                  | 396.8                   | 32.07                     | 13.371                    |          |
| 4,300.0                                                               | 4,192.7               | 4,255.8               | 3,994.5               | 19.7             | 24.0          | -21.62                | -1,164.4     | -192.1       | 448.7                  | 415.7                   | 32.94                     | 13.620                    |          |
| 4,400.0                                                               | 4,288.8               | 4,353.7               | 4,081.6               | 20.3             | 24.7          | -21.34                | -1,208.5     | -200.6       | 468.5                  | 434.6                   | 33.81                     | 13.856                    |          |
| 4,500.0                                                               | 4,384.9               | 4,451.7               | 4,168.7               | 20.8             | 25.5          | -21.08                | -1,252.7     | -209.0       | 488.3                  | 453.6                   | 34.68                     | 14.080                    |          |
| 4,600.0                                                               | 4,481.0               | 4,549.7               | 4,255.8               | 21.4             | 26.3          | -20.84                | -1,296.8     | -217.4       | 508.1                  | 472.5                   | 35.55                     | 14.292                    |          |
| 4,700.0                                                               | 4,577.1               | 4,647.7               | 4,342.9               | 21.9             | 27.1          | -20.62                | -1,340.9     | -225.8       | 527.9                  | 491.5                   | 36.42                     | 14.494                    |          |
| 4,800.0                                                               | 4,673.3               | 4,745.7               | 4,430.0               | 22.5             | 27.9          | -20.42                | -1,385.0     | -234.2       | 547.8                  | 510.5                   | 37.30                     | 14.686                    |          |
| 4,900.0                                                               | 4,769.4               | 4,843.7               | 4,517.1               | 23.1             | 28.7          | -20.23                | -1,429.1     | -242.6       | 567.6                  | 529.4                   | 38.17                     | 14.869                    |          |
| 5,000.0                                                               | 4,865.5               | 4,941.7               | 4,604.2               | 23.6             | 29.5          | -20.05                | -1,473.2     | -251.0       | 587.4                  | 548.4                   | 39.05                     | 15.043                    |          |
| 5,100.0                                                               | 4,961.6               | 5,039.7               | 4,691.3               | 24.2             | 30.2          | -19.88                | -1,517.3     | -259.5       | 607.3                  | 567.4                   | 39.93                     | 15.210                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



PERMIAN  
RESOURCES

Anticollision Report

|                    |                     |                              |                          |
|--------------------|---------------------|------------------------------|--------------------------|
| Company:           | NEW MEXICO          | Local Co-ordinate Reference: | Well FRED STATE COM 423H |
| Project:           | (SP) EDDY           | TVD Reference:               | KB @ 3147.0usft          |
| Reference Site:    | FRED PROJECT        | MD Reference:                | KB @ 3147.0usft          |
| Site Error:        | 0.0 usft            | North Reference:             | Grid                     |
| Reference Well:    | FRED STATE COM 423H | Survey Calculation Method:   | Minimum Curvature        |
| Well Error:        | 0.0 usft            | Output errors are at         | 2.00 sigma               |
| Reference Wellbore | OWB                 | Database:                    | Compass_17               |
| Reference Design:  | PWP0                | Offset TVD Reference:        | Offset Datum             |

|                                                                |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                |                                 |                      |
|----------------------------------------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------|------------------|-----------------------------|------------------------|-----------------|------------------------------|-------------------------------|----------------|---------------------------------|----------------------|
| Offset Design: FRED PROJECT - FRED STATE COM 424H - OWB - PWP0 |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                | Offset Site Error:              | 0.0 usft             |
| Survey Program: 0-MWD                                          |                             |                             |                             |                     |                  |                             |                        |                 |                              |                               |                | Offset Well Error:              | 0.0 usft             |
| Reference                                                      |                             | Offset                      |                             | Semi Major Axis     |                  | Highside<br>Toolface<br>(°) | Offset Wellbore Centre |                 | Distance                     |                               | Rule Assigned: | Warning                         |                      |
| Measured<br>Depth<br>(usft)                                    | Vertical<br>Depth<br>(usft) | Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Reference<br>(usft) | Offset<br>(usft) |                             | +N/-S<br>(usft)        | +E/-W<br>(usft) | Between<br>Centres<br>(usft) | Between<br>Ellipses<br>(usft) |                | Minimum<br>Separation<br>(usft) | Separation<br>Factor |
| 5,200.0                                                        | 5,057.8                     | 5,137.7                     | 4,778.4                     | 24.8                | 31.0             | -19.73                      | -1,561.4               | -267.9          | 627.2                        | 586.3                         |                | 40.81                           | 15.368               |
| 5,300.0                                                        | 5,153.9                     | 5,235.7                     | 4,865.5                     | 25.3                | 31.8             | -19.58                      | -1,605.5               | -276.3          | 647.0                        | 605.3                         |                | 41.69                           | 15.520               |
| 5,400.0                                                        | 5,250.0                     | 5,333.7                     | 4,952.6                     | 25.9                | 32.6             | -19.45                      | -1,649.6               | -284.7          | 666.9                        | 624.3                         |                | 42.57                           | 15.666               |
| 5,500.0                                                        | 5,346.1                     | 5,431.7                     | 5,039.7                     | 26.5                | 33.4             | -19.32                      | -1,693.7               | -293.1          | 686.8                        | 643.3                         |                | 43.45                           | 15.805               |
| 5,600.0                                                        | 5,442.2                     | 5,529.7                     | 5,126.8                     | 27.0                | 34.2             | -19.20                      | -1,737.8               | -301.5          | 706.6                        | 662.3                         |                | 44.33                           | 15.939               |
| 5,700.0                                                        | 5,538.4                     | 5,627.7                     | 5,214.0                     | 27.6                | 35.0             | -19.08                      | -1,781.9               | -309.9          | 726.5                        | 681.3                         |                | 45.22                           | 16.067               |
| 5,800.0                                                        | 5,634.5                     | 5,725.7                     | 5,301.1                     | 28.1                | 35.8             | -18.97                      | -1,826.0               | -318.4          | 746.4                        | 700.3                         |                | 46.10                           | 16.190               |
| 5,900.0                                                        | 5,730.6                     | 5,823.7                     | 5,388.2                     | 28.7                | 36.6             | -18.87                      | -1,870.1               | -326.8          | 766.3                        | 719.3                         |                | 46.99                           | 16.308               |
| 6,000.0                                                        | 5,826.7                     | 5,921.7                     | 5,475.3                     | 29.3                | 37.4             | -18.77                      | -1,914.2               | -335.2          | 786.1                        | 738.3                         |                | 47.87                           | 16.422               |
| 6,100.0                                                        | 5,922.8                     | 6,019.7                     | 5,562.4                     | 29.8                | 38.2             | -18.68                      | -1,958.4               | -343.6          | 806.0                        | 757.3                         |                | 48.76                           | 16.531               |
| 6,200.0                                                        | 6,019.0                     | 6,117.7                     | 5,649.5                     | 30.4                | 39.0             | -18.59                      | -2,002.5               | -352.0          | 825.9                        | 776.3                         |                | 49.64                           | 16.637               |
| 6,300.0                                                        | 6,115.1                     | 6,215.6                     | 5,736.6                     | 31.0                | 39.7             | -18.50                      | -2,046.6               | -360.4          | 845.8                        | 795.3                         |                | 50.53                           | 16.738               |
| 6,400.0                                                        | 6,211.2                     | 6,313.6                     | 5,823.7                     | 31.5                | 40.5             | -18.42                      | -2,090.7               | -368.8          | 865.7                        | 814.3                         |                | 51.42                           | 16.836               |
| 6,500.0                                                        | 6,307.3                     | 6,411.6                     | 5,910.8                     | 32.1                | 41.3             | -18.35                      | -2,134.8               | -377.3          | 885.6                        | 833.3                         |                | 52.31                           | 16.931               |
| 6,600.0                                                        | 6,403.4                     | 6,509.6                     | 5,997.9                     | 32.7                | 42.1             | -18.27                      | -2,178.9               | -385.7          | 905.5                        | 852.3                         |                | 53.20                           | 17.022               |
| 6,700.0                                                        | 6,499.6                     | 6,607.6                     | 6,085.0                     | 33.2                | 42.9             | -18.20                      | -2,223.0               | -394.1          | 925.4                        | 871.3                         |                | 54.08                           | 17.110               |
| 6,800.0                                                        | 6,595.7                     | 6,705.6                     | 6,172.1                     | 33.8                | 43.7             | -18.13                      | -2,267.1               | -402.5          | 945.3                        | 890.3                         |                | 54.97                           | 17.195               |
| 6,900.0                                                        | 6,691.8                     | 6,803.6                     | 6,259.2                     | 34.4                | 44.5             | -18.07                      | -2,311.2               | -410.9          | 965.2                        | 909.3                         |                | 55.86                           | 17.277               |
| 7,000.0                                                        | 6,787.9                     | 6,901.6                     | 6,346.3                     | 34.9                | 45.3             | -18.01                      | -2,355.3               | -419.3          | 985.1                        | 928.3                         |                | 56.75                           | 17.357               |

**PERMIAN****RESOURCES**

## Anticollision Report

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

Reference Depths are relative to KB @ 3147.0usft

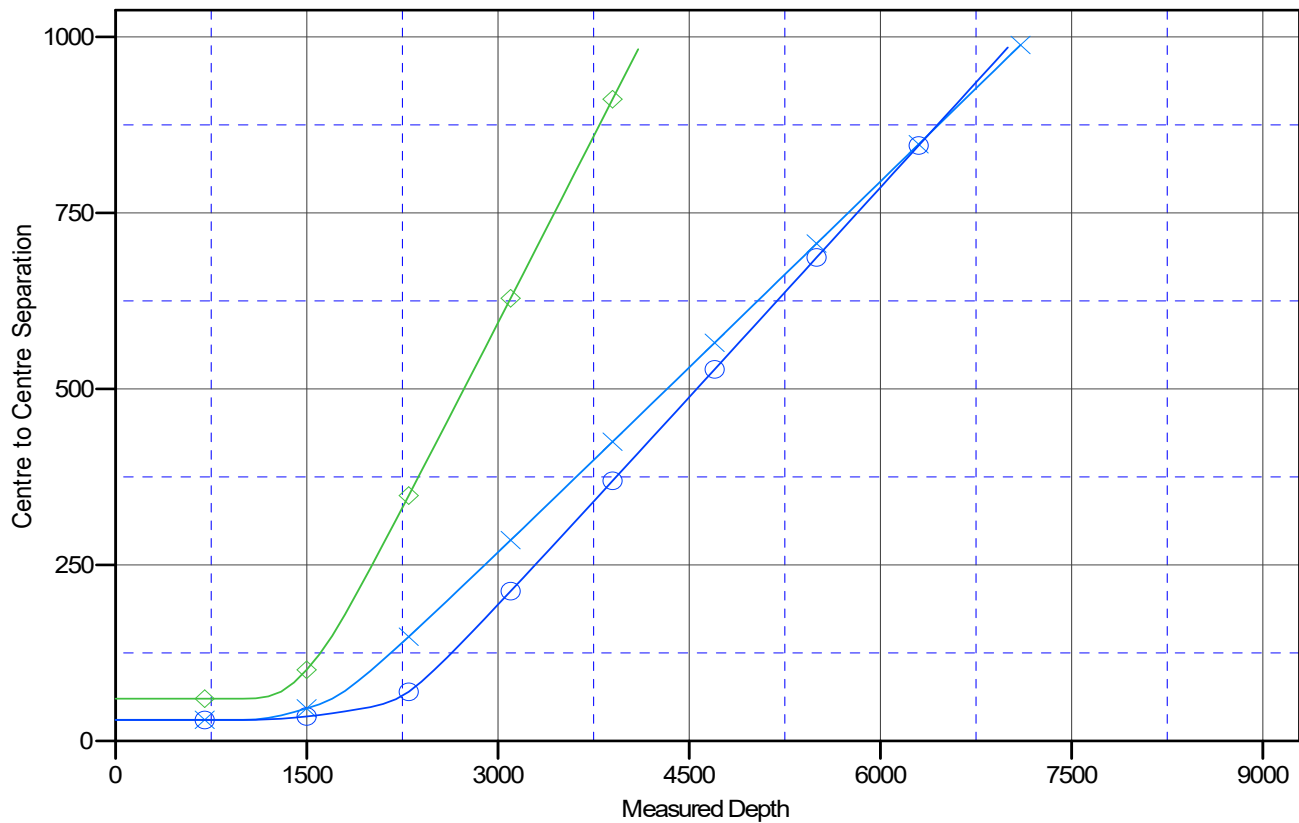
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FRED STATE COM 423H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.07°

**Ladder Plot****LEGEND**

—◆— FRED STATECOM421H,OWB,PWP0V0
 —x— FRED STATECOM422H,OWB,PWP0V0
 —○— FRED STATECOM424H,OWB,PWP0V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# PERMIAN

## RESOURCES

### Anticollision Report

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 423H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 423H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

Reference Depths are relative to KB @ 3147.0usft

Offset Depths are relative to Offset Datum

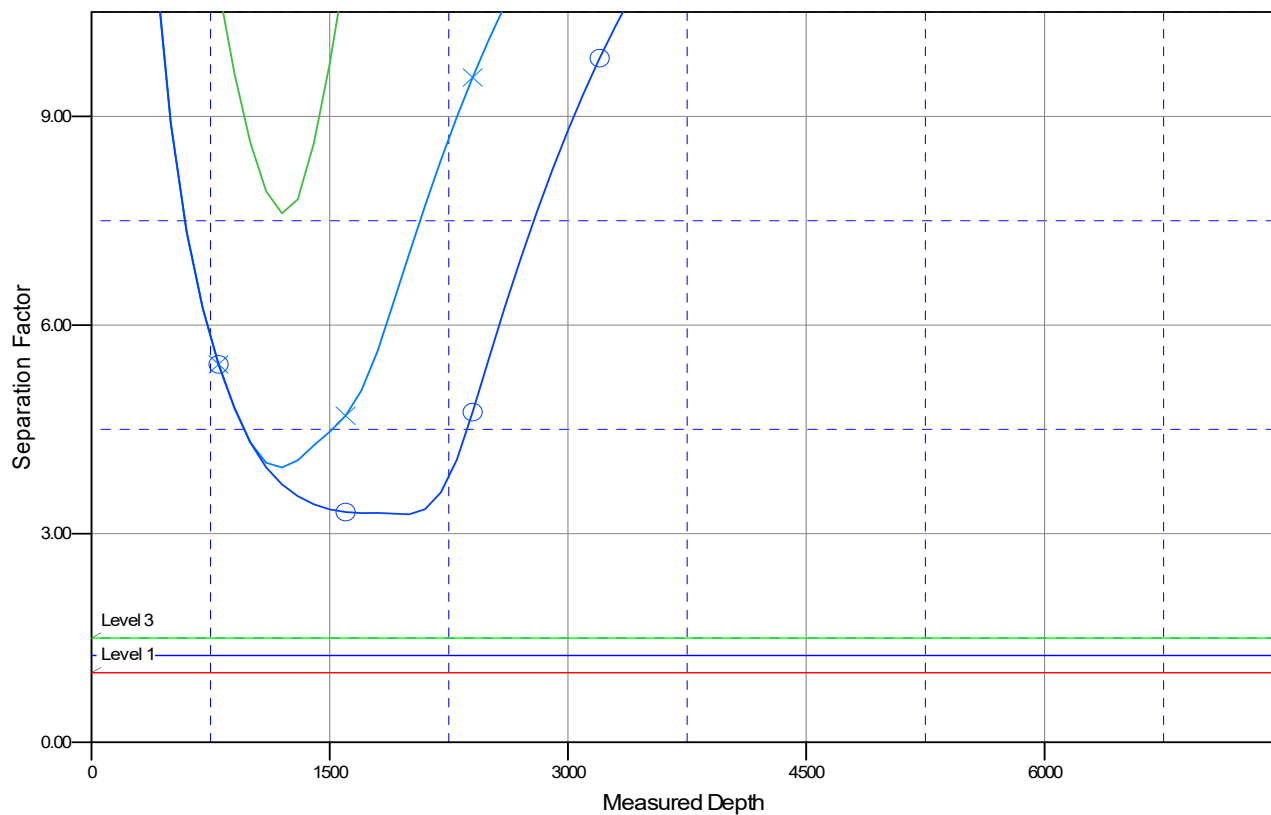
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FRED STATE COM 423H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.07°

## Separation Factor Plot



### LEGEND

—●— FRED STATECOM421H.OWB/PWP0V0
 —x— FRED STATECOM422H.OWB/PWP0V0
 —○— FRED STATECOM424H.OWB/PWP0V0

|                                                                 |                                                                                                            |                      |                                                       |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------|
| <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>30-015-55716</b>                                                                                                                      | Pool Code<br><b>74160</b>                                | Pool Name<br><b>Carlsbad, Wolfcamp, East (GAS)</b>                                                                                                     |
| Property Code                                                                                                                                          | Property Name<br><b>FRED STATE COM</b>                   | Well Number<br><b>424H</b>                                                                                                                             |
| OGRID No.<br><b>372165</b>                                                                                                                             | Operator Name<br><b>PERMIAN RESOURCES OPERATING, LLC</b> | Ground Level Elevation<br><b>3,117'</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>E</b> | Section<br><b>33</b> | Township<br><b>21S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>1,712' FNL</b> | Ft. from E/W<br><b>532' FWL</b> | Latitude<br><b>32.438895°</b> | Longitude<br><b>-104.201777°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

## Bottom Hole Location

|                |                      |                        |                     |     |                                 |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>M</b> | Section<br><b>36</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>330' FSL</b> | Ft. from E/W<br><b>100' FWL</b> | Latitude<br><b>32.429567°</b> | Longitude<br><b>-104.254190°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

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

## Kick Off Point (KOP)

|                |                      |                        |                     |     |                                   |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>E</b> | Section<br><b>33</b> | Township<br><b>21S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>1,712' FNL</b> | Ft. from E/W<br><b>532' FWL</b> | Latitude<br><b>32.438895°</b> | Longitude<br><b>-104.201777°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

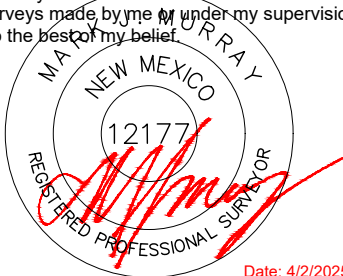
## First Take Point (FTP)

|                |                      |                        |                     |     |                                 |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>P</b> | Section<br><b>32</b> | Township<br><b>21S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>330' FSL</b> | Ft. from E/W<br><b>100' FEL</b> | Latitude<br><b>32.430030°</b> | Longitude<br><b>-104.203784°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

## Last Take Point (LTP)

|                |                      |                        |                     |     |                                 |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>M</b> | Section<br><b>36</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>330' FSL</b> | Ft. from E/W<br><b>100' FWL</b> | Latitude<br><b>32.429567°</b> | Longitude<br><b>-104.254190°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

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

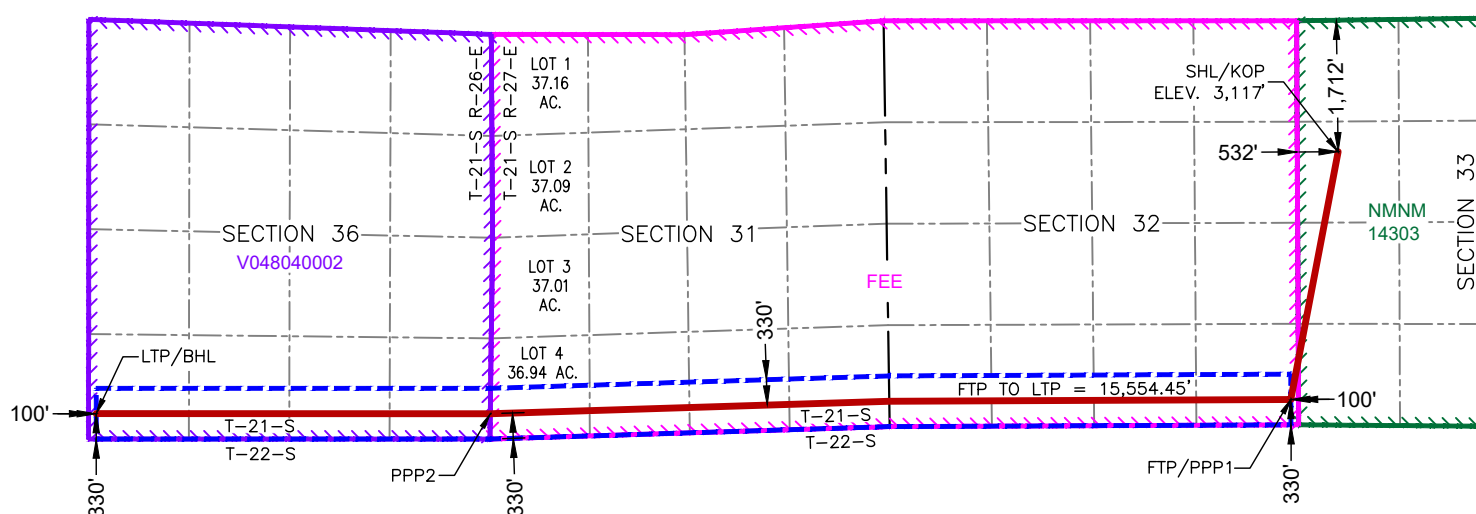
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                                                                                                                                                                                                                                                                                                                                                                   |                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <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. |                       | <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: 4/2/2025 |                                   |
| Signature<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Date<br><b>4/3/25</b> | Signature and Seal of Professional Surveyor                                                                                                                                                                                                                                                                                                                       |                                   |
| Printed Name<br><b>Cassie Evans</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                       | Certificate Number<br><b>12177</b>                                                                                                                                                                                                                                                                                                                                | Date of Survey<br><b>4/2/2025</b> |
| Email Address<br><b>Cassie.Evans@permianres.com</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.



## FRED STATE COM 424H

**SURFACE HOLE LOCATION  
& KICK-OFF POINT**  
1,712' FNL & 532' FWL  
ELEV. = 3,117'

NAD 83 X = 581,923.09'  
NAD 83 Y = 523,426.07'  
NAD 83 LAT = 32.438895°  
NAD 83 LONG = -104.201777°  
NAD 27 X = 540,741.96'  
NAD 27 Y = 523,365.97'  
NAD 27 LAT = 32.438777°  
NAD 27 LONG = -104.201273°

**FIRST TAKE POINT &  
PENETRATION POINT 1**  
330' FSL & 100' FEL

NAD 83 X = 581,307.72'  
NAD 83 Y = 520,200.42'  
NAD 83 LAT = 32.430030°  
NAD 83 LONG = -104.203784°  
NAD 27 X = 540,126.53'  
NAD 27 Y = 520,140.40'  
NAD 27 LAT = 32.429912°  
NAD 27 LONG = -104.203280°

**PENETRATION POINT 2**  
330' FSL & 0' FWL

NAD 83 X = 570,885.08'  
NAD 83 Y = 520,015.68'  
NAD 83 LAT = 32.429553°  
NAD 83 LONG = -104.237566°  
NAD 27 X = 529,703.99'  
NAD 27 Y = 519,955.78'  
NAD 27 LAT = 32.429435°  
NAD 27 LONG = -104.237061°

**LAST TAKE POINT &  
BOTTOM HOLE LOCATION**  
330' FSL & 100' FWL

NAD 83 X = 565,755.82'  
NAD 83 Y = 520,016.61'  
NAD 83 LAT = 32.429567°  
NAD 83 LONG = -104.254190°  
NAD 27 X = 524,574.79'  
NAD 27 Y = 519,956.77'  
NAD 27 LAT = 32.429449°  
NAD 27 LONG = -104.253685°

## Permian Resources - Fred State Com 424H

## 1. Geologic Formations

| Formation            | Lithology                 | Elevation | TVD  | Target |
|----------------------|---------------------------|-----------|------|--------|
| Rustler              | Sandstone                 | 2917      | 230  | No     |
| Top of Salt          | Salt                      | 2667      | 480  | No     |
| Tansill              | Sandstone                 | 2517      | 630  | No     |
| Yates                | Anhydrite/Shale           | 2248      | 899  | No     |
| Seven Rivers         | Limestone                 | 1997      | 1150 | No     |
| Capitan              | Sandstone                 | 1917      | 1230 | No     |
| Delaware Sands       | Sandstone                 | 527       | 2620 | No     |
| Brushy Canyon        | Sandstone                 | -1713     | 4860 | No     |
| Bone Spring Lime     | Limestone/Shale           | -1933     | 5080 | No     |
| 1st Bone Spring Sand | Sandstone/Limestone/Shale | -3146     | 6293 | No     |
| 2nd Bone Spring Sand | Sandstone/Limestone/Shale | -5913     | 9060 | No     |
| 3rd Bone Spring Sand | Sandstone/Limestone/Shale | -5258     | 8405 | No     |
| Wolfcamp             | Shale                     | -5588     | 8735 | Yes    |

## 2. Blowout Prevention

| BOP installed and tested before drilling which hole? | Size?   | Min. Required WP | Type       | x | Tested to: |
|------------------------------------------------------|---------|------------------|------------|---|------------|
| 12.25                                                | 13-5/8" | 5M               | Annular    | x | 2500 psi   |
|                                                      |         |                  | Blind Ram  | x | 5000 psi   |
|                                                      |         |                  | Pipe Ram   | x |            |
|                                                      |         |                  | Double Ram |   |            |
|                                                      |         |                  | Other*     |   |            |
| 9.875                                                | 13-5/8" | 5M               | Annular    | x | 2500 psi   |
|                                                      |         |                  | Blind Ram  | x | 5000 psi   |
|                                                      |         |                  | Pipe Ram   | x |            |
|                                                      |         |                  | Double Ram |   |            |
|                                                      |         |                  | Other*     |   |            |
| 7.875                                                | 13-5/8" | 5M               | Annular    | x | 2500 psi   |
|                                                      |         |                  | Blind Ram  | x | 5000 psi   |
|                                                      |         |                  | Pipe Ram   | x |            |
|                                                      |         |                  | Double Ram |   |            |
|                                                      |         |                  | Other*     |   |            |

**Equipment:** BOPE will meet all requirements for above listed system per 43 CFR 3172. BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The system may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all of the components installed will be functional, tested, and will meet all requirements per 43 CFR 3172. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing of the surface x intermediate annulus without breaking the connection between the BOP & wellhead. A variance is requested to utilize a flexible choke line (flexhose) from the BOP to choke manifold.

**Requesting Variance? YES**

**Variance request: Multibowl Wellhead, Flexhose, Breaktesting, Offline Cementing Variances. Attachments in Section 8.**

**Testing Procedure:** Operator requests to ONLY test broken pressure seals per API Standard 53 and the attachments in Section 8. The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed, b. whenever any seal subject to test pressure is broken, c. following related repairs, d. at 21-day intervals. Testing of the ram type preventer(s) and annual type preventer(s) shall be tested per 43 CFR 3172. The BOPE configuration, choke manifold layout, and accumulator system will be in compliance with 43 CFR 3172. Bleed lines will discharge 100' from wellhead in non-H2S scenarios and 150' from wellhead in H2S scenarios.

Choke Diagram Attachment: 5M Choke Manifold

BOP Diagram Attachment: BOP Schematics

**3. Casing**

| String                | Hole Size | Casing Size | Top  | Bottom | Top TVD | Bottom TVD | Length | Grade   | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------------------|-----------|-------------|------|--------|---------|------------|--------|---------|--------|------------|-------------|----------|---------------|----------|--------------|---------|
| Surface               | 17.5      | 13.375      | 0    | 300    | 0       | 300        | 300    | J55     | 54.5   | BTC        | 7.62        | 8.26     | Dry           | 7.81     | Dry          | 7.33    |
| Intermediate 1        | 12.25     | 10.75       | 0    | 790    | 0       | 790        | 790    | J55     | 45.5   | BTC        | 12.14       | 3.36     | Dry           | 7.82     | Dry          | 5.26    |
| Intermediate 2        | 9.875     | 8.625       | 0    | 2620   | 0       | 2620       | 2620   | P110 HS | 32     | MO-FXL     | 5.51        | 2.47     | Dry           | 4.29     | Dry          | 6.22    |
| Production            | 7.875     | 5.5         | 0    | 9465   | 0       | 9300       | 9465   | P110RY  | 20     | GeoConn    | 1.55        | 1.62     | Dry           | 1.91     | Dry          | 1.91    |
| Production            | 7.875     | 5.5         | 9465 | 25393  | 9300    | 9300       | 15928  | P110RY  | 20     | GeoConn    | 1.55        | 1.62     | Dry           | 1.91     | Dry          | 1.91    |
| BLM Min Safety Factor |           |             |      |        |         |            |        |         |        |            | 1.125       | 1        |               | 1.6      |              | 1.6     |

Non API casing spec sheets and casing design assumptions attached.

**4. Cement**

| String         | Lead/Tail | Top MD | Bottom MD | Quantity (sx) | Yield | Density | Cu Ft | Excess % | Cement Type | Additives                                       |
|----------------|-----------|--------|-----------|---------------|-------|---------|-------|----------|-------------|-------------------------------------------------|
| Surface        | Tail      | 0      | 300       | 240           | 1.34  | 14.8    | 320   | 50%      | Class C     | Accelerator                                     |
| Intermediate 1 | Lead      | 0      | 630       | 100           | 1.88  | 12.9    | 170   | 50%      | Class C     | EconoCem-HLC + 5% Salt + 5% Kol-Seal            |
| Intermediate 1 | Tail      | 630    | 790       | 40            | 1.34  | 14.8    | 50    | 50%      | Class C     | Retarder                                        |
| Intermediate 2 | Lead      | 0      | 2090      | 130           | 2.96  | 11      | 360   | 50%      | Class C     | EconoCem-HLC + 5% Salt + 5% Kol-Seal            |
| Intermediate 2 | Tail      | 2090   | 2620      | 70            | 1.33  | 14.8    | 90    | 25%      | Class C     | Salt                                            |
| Production     | Lead      | 2120   | 9566      | 740           | 2.41  | 11.5    | 1780  | 40%      | Class H     | POZ, Extender, Fluid Loss, Dispersant, Retarder |
| Production     | Tail      | 9566   | 25393     | 1990          | 1.73  | 12.5    | 3430  | 25%      | Class H     | POZ, Extender, Fluid Loss, Dispersant, Retarder |

Permian Resources requests to pump a two-stage cement job on the 8-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Cherry Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + Bentonite Gel (2.30 yld, 12.9 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

Permian Resources will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

Permian Resources will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Permian Resources requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement inside the surface casing. If cement reaches the desired height, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

Permian Resources requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure the first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

**5. Circulating Medium**

**Mud System Type:** Closed

**Will an air or gas system be used:** No



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**Describe what will be on location to control well or mitigate other conditions:** Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

**Describe the mud monitoring system utilized:** Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

**Cuttings Volume: 9580 Cu Ft**

**Circulating Medium Table**

| Top Depth | Bottom Depth | Mud Type       | Min Weight | Max Weight |
|-----------|--------------|----------------|------------|------------|
| 0         | 300          | Spud Mud       | 8.6        | 9.5        |
| 300       | 790          | Salt Saturated | 10         | 10         |
| 790       | 2620         | Fresh Water    | 8.6        | 9.5        |
| 2620      | 9465         | Oil Based Mud  | 9          | 10         |

6. Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Will utilize MWD/LWD from intermediate hole to TD of the well.

List of open and cased hole logs run in the well:

DIRECTIONAL SURVEY

Coring operation description for the well:

N/A

7. Pressure

|                                                     |      |     |
|-----------------------------------------------------|------|-----|
| Anticipated Bottom Hole Pressure                    | 4840 | psi |
| Anticipated Surface Pressure                        | 2790 | psi |
| Anticipated Bottom Hole Temperature                 | 149  | °F  |
| Anticipated Abnormal pressure, temp, or geo hazards | No   |     |

# **PERMIAN**

## **R E S O U R C E S**

### **NEW MEXICO**

**(SP) EDDY**

**FRED PROJECT**

**FRED STATE COM 424H**

**OWB**

**Plan: PWP0**

### **Standard Planning Report - Geographic**

**03 April, 2025**

# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | (SP) EDDY                 |                      |                |
| <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                  |          | FRED PROJECT |                 |            |                   |
|-----------------------|----------|--------------|-----------------|------------|-------------------|
| Site Position:        |          | Northing:    | 523,162.55 usft | Latitude:  | 32° 26' 17.407 N  |
| From:                 | Map      | Easting:     | 582,566.25 usft | Longitude: | 104° 11' 58.894 W |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 "       |            |                   |

| Well                 | FRED STATE COM 424H |          |                     |                 |               |                  |
|----------------------|---------------------|----------|---------------------|-----------------|---------------|------------------|
| Well Position        | +N/-S               | 0.0 usft | Northing:           | 523,426.07 usft | Latitude:     | 32° 26' 20.022 N |
|                      | +E/-W               | 0.0 usft | Easting:            | 581,923.09 usft | Longitude:    | 104° 12' 6.396 W |
| Position Uncertainty |                     | 0.0 usft | Wellhead Elevation: | usft            | Ground Level: | 3,117.0 usft     |
| Grid Convergence:    |                     | 0.07 °   |                     |                 |               |                  |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OWB               |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF200510        | 12/31/2009         | 8.05                   | 60.33                | 48,853.98923497            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | PWP0                           |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PROTOTYPE           | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.0                            | 0.0                 | 0.0                  | 258.09               |

|                                 |                        |                          |                          |                |
|---------------------------------|------------------------|--------------------------|--------------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 4/3/2025                 |                          |                |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>         | <b>Remarks</b> |
| 1                               | 0.0                    | 25,392.5 PWP0 (OWB)      | MWD                      |                |
|                                 |                        |                          | OWSG_Rev2_ MWD - Standal |                |

PERMIAN  
RESOURCES

Planning Report - Geographic

|           |                     |                              |                          |
|-----------|---------------------|------------------------------|--------------------------|
| Database: | Compass_17          | Local Co-ordinate Reference: | Well FRED STATE COM 424H |
| Company:  | NEW MEXICO          | TVD Reference:               | KB @ 3147.0usft          |
| Project:  | (SP) EDDY           | MD Reference:                | KB @ 3147.0usft          |
| Site:     | FRED PROJECT        | North Reference:             | Grid                     |
| Well:     | FRED STATE COM 424H | Survey Calculation Method:   | Minimum Curvature        |
| Wellbore: | OWB                 |                              |                          |
| Design:   | PWP0                |                              |                          |

| 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           |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 1,000.0               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 2,363.6               | 27.27           | 190.80      | 2,312.7               | -312.8       | -59.7        | 2.00                    | 2.00                   | 0.00                  | 190.80  |                  |
| 8,140.4               | 27.27           | 190.80      | 7,447.3               | -2,912.9     | -555.7       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 9,503.9               | 0.00            | 0.00        | 8,760.0               | -3,225.6     | -615.4       | 2.00                    | -2.00                  | 0.00                  | 180.00  |                  |
| 9,566.4               | 0.00            | 0.00        | 8,822.5               | -3,225.6     | -615.4       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                  |
| 10,316.4              | 90.00           | 268.98      | 9,300.0               | -3,234.1     | -1,092.8     | 12.00                   | 12.00                  | -12.14                | 268.98  |                  |
| 20,263.2              | 90.00           | 268.98      | 9,300.0               | -3,410.4     | -11,038.0    | 0.00                    | 0.00                   | 0.00                  | 0.00    | PP2-FSC 424H     |
| 20,314.8              | 90.00           | 270.02      | 9,300.0               | -3,410.8     | -11,089.6    | 2.00                    | 0.00                   | 2.00                  | 89.99   |                  |
| 25,392.5              | 90.00           | 270.02      | 9,300.0               | -3,409.5     | -16,167.3    | 0.00                    | 0.00                   | 0.00                  | 0.00    | LTP/BHL-FSC 424H |

# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey                 |                 |             |                       |              |              |                     |                    |                  |                  |
|--------------------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|------------------|
| Measured Depth (usft)          | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude        |
| 0.0                            | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| 100.0                          | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| 200.0                          | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| 300.0                          | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| 400.0                          | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| 500.0                          | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| 600.0                          | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| 700.0                          | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| 800.0                          | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| 900.0                          | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| 1,000.0                        | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 523,426.07          | 581,923.09         | 32° 26' 20.022 N | 104° 12' 6.396 W |
| Start Build 2.00               |                 |             |                       |              |              |                     |                    |                  |                  |
| 1,100.0                        | 2.00            | 190.80      | 1,100.0               | -1.7         | -0.3         | 523,424.36          | 581,922.77         | 32° 26' 20.005 N | 104° 12' 6.399 W |
| 1,200.0                        | 4.00            | 190.80      | 1,199.8               | -6.9         | -1.3         | 523,419.22          | 581,921.79         | 32° 26' 19.954 N | 104° 12' 6.411 W |
| 1,300.0                        | 6.00            | 190.80      | 1,299.5               | -15.4        | -2.9         | 523,410.66          | 581,920.15         | 32° 26' 19.870 N | 104° 12' 6.430 W |
| 1,400.0                        | 8.00            | 190.80      | 1,398.7               | -27.4        | -5.2         | 523,398.69          | 581,917.87         | 32° 26' 19.751 N | 104° 12' 6.457 W |
| 1,500.0                        | 10.00           | 190.80      | 1,497.5               | -42.8        | -8.2         | 523,383.32          | 581,914.94         | 32° 26' 19.599 N | 104° 12' 6.491 W |
| 1,600.0                        | 12.00           | 190.80      | 1,595.6               | -61.5        | -11.7        | 523,364.58          | 581,911.36         | 32° 26' 19.414 N | 104° 12' 6.533 W |
| 1,700.0                        | 14.00           | 190.80      | 1,693.1               | -83.6        | -15.9        | 523,342.48          | 581,907.15         | 32° 26' 19.195 N | 104° 12' 6.583 W |
| 1,800.0                        | 16.00           | 190.80      | 1,789.6               | -109.0       | -20.8        | 523,317.06          | 581,902.30         | 32° 26' 18.944 N | 104° 12' 6.640 W |
| 1,900.0                        | 18.00           | 190.80      | 1,885.3               | -137.7       | -26.3        | 523,288.34          | 581,896.82         | 32° 26' 18.660 N | 104° 12' 6.704 W |
| 2,000.0                        | 20.00           | 190.80      | 1,979.8               | -169.7       | -32.4        | 523,256.36          | 581,890.72         | 32° 26' 18.343 N | 104° 12' 6.776 W |
| 2,100.0                        | 22.00           | 190.80      | 2,073.2               | -204.9       | -39.1        | 523,221.16          | 581,884.00         | 32° 26' 17.995 N | 104° 12' 6.855 W |
| 2,200.0                        | 24.00           | 190.80      | 2,165.2               | -243.3       | -46.4        | 523,182.79          | 581,876.68         | 32° 26' 17.615 N | 104° 12' 6.941 W |
| 2,300.0                        | 26.00           | 190.80      | 2,255.8               | -284.8       | -54.3        | 523,141.27          | 581,868.76         | 32° 26' 17.205 N | 104° 12' 7.034 W |
| 2,363.6                        | 27.27           | 190.80      | 2,312.7               | -312.8       | -59.7        | 523,113.28          | 581,863.42         | 32° 26' 16.928 N | 104° 12' 7.096 W |
| Start 5776.8 hold at 2363.6 MD |                 |             |                       |              |              |                     |                    |                  |                  |
| 2,400.0                        | 27.27           | 190.80      | 2,345.0               | -329.2       | -62.8        | 523,096.88          | 581,860.29         | 32° 26' 16.765 N | 104° 12' 7.133 W |
| 2,500.0                        | 27.27           | 190.80      | 2,433.9               | -374.2       | -71.4        | 523,051.87          | 581,851.71         | 32° 26' 16.320 N | 104° 12' 7.234 W |
| 2,600.0                        | 27.27           | 190.80      | 2,522.8               | -419.2       | -80.0        | 523,006.87          | 581,843.12         | 32° 26' 15.875 N | 104° 12' 7.335 W |
| 2,700.0                        | 27.27           | 190.80      | 2,611.7               | -464.2       | -88.6        | 522,961.86          | 581,834.53         | 32° 26' 15.430 N | 104° 12' 7.436 W |
| 2,800.0                        | 27.27           | 190.80      | 2,700.6               | -509.2       | -97.1        | 522,916.85          | 581,825.95         | 32° 26' 14.984 N | 104° 12' 7.537 W |
| 2,900.0                        | 27.27           | 190.80      | 2,789.5               | -554.2       | -105.7       | 522,871.84          | 581,817.36         | 32° 26' 14.539 N | 104° 12' 7.637 W |
| 3,000.0                        | 27.27           | 190.80      | 2,878.4               | -599.2       | -114.3       | 522,826.83          | 581,808.77         | 32° 26' 14.094 N | 104° 12' 7.738 W |
| 3,100.0                        | 27.27           | 190.80      | 2,967.2               | -644.3       | -122.9       | 522,781.82          | 581,800.19         | 32° 26' 13.648 N | 104° 12' 7.839 W |
| 3,200.0                        | 27.27           | 190.80      | 3,056.1               | -689.3       | -131.5       | 522,736.81          | 581,791.60         | 32° 26' 13.203 N | 104° 12' 7.940 W |
| 3,300.0                        | 27.27           | 190.80      | 3,145.0               | -734.3       | -140.1       | 522,691.80          | 581,783.01         | 32° 26' 12.758 N | 104° 12' 8.041 W |
| 3,400.0                        | 27.27           | 190.80      | 3,233.9               | -779.3       | -148.7       | 522,646.79          | 581,774.43         | 32° 26' 12.312 N | 104° 12' 8.142 W |
| 3,500.0                        | 27.27           | 190.80      | 3,322.8               | -824.3       | -157.3       | 522,601.79          | 581,765.84         | 32° 26' 11.867 N | 104° 12' 8.242 W |
| 3,600.0                        | 27.27           | 190.80      | 3,411.7               | -869.3       | -165.8       | 522,556.78          | 581,757.25         | 32° 26' 11.422 N | 104° 12' 8.343 W |
| 3,700.0                        | 27.27           | 190.80      | 3,500.5               | -914.3       | -174.4       | 522,511.77          | 581,748.67         | 32° 26' 10.977 N | 104° 12' 8.444 W |
| 3,800.0                        | 27.27           | 190.80      | 3,589.4               | -959.3       | -183.0       | 522,466.76          | 581,740.08         | 32° 26' 10.531 N | 104° 12' 8.545 W |
| 3,900.0                        | 27.27           | 190.80      | 3,678.3               | -1,004.3     | -191.6       | 522,421.75          | 581,731.49         | 32° 26' 10.086 N | 104° 12' 8.646 W |
| 4,000.0                        | 27.27           | 190.80      | 3,767.2               | -1,049.3     | -200.2       | 522,376.74          | 581,722.91         | 32° 26' 9.641 N  | 104° 12' 8.747 W |
| 4,100.0                        | 27.27           | 190.80      | 3,856.1               | -1,094.3     | -208.8       | 522,331.73          | 581,714.32         | 32° 26' 9.195 N  | 104° 12' 8.847 W |
| 4,200.0                        | 27.27           | 190.80      | 3,945.0               | -1,139.3     | -217.4       | 522,286.72          | 581,705.74         | 32° 26' 8.750 N  | 104° 12' 8.948 W |
| 4,300.0                        | 27.27           | 190.80      | 4,033.9               | -1,184.4     | -225.9       | 522,241.71          | 581,697.15         | 32° 26' 8.305 N  | 104° 12' 9.049 W |
| 4,400.0                        | 27.27           | 190.80      | 4,122.7               | -1,229.4     | -234.5       | 522,196.71          | 581,688.56         | 32° 26' 7.860 N  | 104° 12' 9.150 W |
| 4,500.0                        | 27.27           | 190.80      | 4,211.6               | -1,274.4     | -243.1       | 522,151.70          | 581,679.98         | 32° 26' 7.414 N  | 104° 12' 9.251 W |
| 4,600.0                        | 27.27           | 190.80      | 4,300.5               | -1,319.4     | -251.7       | 522,106.69          | 581,671.39         | 32° 26' 6.969 N  | 104° 12' 9.352 W |
| 4,700.0                        | 27.27           | 190.80      | 4,389.4               | -1,364.4     | -260.3       | 522,061.68          | 581,662.80         | 32° 26' 6.524 N  | 104° 12' 9.452 W |
| 4,800.0                        | 27.27           | 190.80      | 4,478.3               | -1,409.4     | -268.9       | 522,016.67          | 581,654.22         | 32° 26' 6.078 N  | 104° 12' 9.553 W |
| 4,900.0                        | 27.27           | 190.80      | 4,567.2               | -1,454.4     | -277.5       | 521,971.66          | 581,645.63         | 32° 26' 5.633 N  | 104° 12' 9.654 W |
| 5,000.0                        | 27.27           | 190.80      | 4,656.0               | -1,499.4     | -286.1       | 521,926.65          | 581,637.04         | 32° 26' 5.188 N  | 104° 12' 9.755 W |

# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey               |             |         |          |          |        |            |            |  |                  |                   |
|------------------------------|-------------|---------|----------|----------|--------|------------|------------|--|------------------|-------------------|
| Measured                     |             |         | Vertical |          |        | Map        | Map        |  |                  |                   |
| Depth                        | Inclination | Azimuth | Depth    | +N/-S    | +E/-W  | Northing   | Easting    |  | Latitude         | Longitude         |
| (usft)                       | (°)         | (°)     | (usft)   | (usft)   | (usft) | (usft)     | (usft)     |  |                  |                   |
| 5,100.0                      | 27.27       | 190.80  | 4,744.9  | -1,544.4 | -294.6 | 521,881.64 | 581,628.46 |  | 32° 26' 4.743 N  | 104° 12' 9.856 W  |
| 5,200.0                      | 27.27       | 190.80  | 4,833.8  | -1,589.4 | -303.2 | 521,836.63 | 581,619.87 |  | 32° 26' 4.297 N  | 104° 12' 9.957 W  |
| 5,300.0                      | 27.27       | 190.80  | 4,922.7  | -1,634.4 | -311.8 | 521,791.63 | 581,611.28 |  | 32° 26' 3.852 N  | 104° 12' 10.057 W |
| 5,400.0                      | 27.27       | 190.80  | 5,011.6  | -1,679.5 | -320.4 | 521,746.62 | 581,602.70 |  | 32° 26' 3.407 N  | 104° 12' 10.158 W |
| 5,500.0                      | 27.27       | 190.80  | 5,100.5  | -1,724.5 | -329.0 | 521,701.61 | 581,594.11 |  | 32° 26' 2.961 N  | 104° 12' 10.259 W |
| 5,600.0                      | 27.27       | 190.80  | 5,189.4  | -1,769.5 | -337.6 | 521,656.60 | 581,585.52 |  | 32° 26' 2.516 N  | 104° 12' 10.360 W |
| 5,700.0                      | 27.27       | 190.80  | 5,278.2  | -1,814.5 | -346.2 | 521,611.59 | 581,576.94 |  | 32° 26' 2.071 N  | 104° 12' 10.461 W |
| 5,800.0                      | 27.27       | 190.80  | 5,367.1  | -1,859.5 | -354.7 | 521,566.58 | 581,568.35 |  | 32° 26' 1.625 N  | 104° 12' 10.562 W |
| 5,900.0                      | 27.27       | 190.80  | 5,456.0  | -1,904.5 | -363.3 | 521,521.57 | 581,559.76 |  | 32° 26' 1.180 N  | 104° 12' 10.662 W |
| 6,000.0                      | 27.27       | 190.80  | 5,544.9  | -1,949.5 | -371.9 | 521,476.56 | 581,551.18 |  | 32° 26' 0.735 N  | 104° 12' 10.763 W |
| 6,100.0                      | 27.27       | 190.80  | 5,633.8  | -1,994.5 | -380.5 | 521,431.55 | 581,542.59 |  | 32° 26' 0.290 N  | 104° 12' 10.864 W |
| 6,200.0                      | 27.27       | 190.80  | 5,722.7  | -2,039.5 | -389.1 | 521,386.55 | 581,534.00 |  | 32° 25' 59.844 N | 104° 12' 10.965 W |
| 6,300.0                      | 27.27       | 190.80  | 5,811.5  | -2,084.5 | -397.7 | 521,341.54 | 581,525.42 |  | 32° 25' 59.399 N | 104° 12' 11.066 W |
| 6,400.0                      | 27.27       | 190.80  | 5,900.4  | -2,129.5 | -406.3 | 521,296.53 | 581,516.83 |  | 32° 25' 58.954 N | 104° 12' 11.167 W |
| 6,500.0                      | 27.27       | 190.80  | 5,989.3  | -2,174.6 | -414.8 | 521,251.52 | 581,508.25 |  | 32° 25' 58.508 N | 104° 12' 11.267 W |
| 6,600.0                      | 27.27       | 190.80  | 6,078.2  | -2,219.6 | -423.4 | 521,206.51 | 581,499.66 |  | 32° 25' 58.063 N | 104° 12' 11.368 W |
| 6,700.0                      | 27.27       | 190.80  | 6,167.1  | -2,264.6 | -432.0 | 521,161.50 | 581,491.07 |  | 32° 25' 57.618 N | 104° 12' 11.469 W |
| 6,800.0                      | 27.27       | 190.80  | 6,256.0  | -2,309.6 | -440.6 | 521,116.49 | 581,482.49 |  | 32° 25' 57.173 N | 104° 12' 11.570 W |
| 6,900.0                      | 27.27       | 190.80  | 6,344.9  | -2,354.6 | -449.2 | 521,071.48 | 581,473.90 |  | 32° 25' 56.727 N | 104° 12' 11.671 W |
| 7,000.0                      | 27.27       | 190.80  | 6,433.7  | -2,399.6 | -457.8 | 521,026.47 | 581,465.31 |  | 32° 25' 56.282 N | 104° 12' 11.772 W |
| 7,100.0                      | 27.27       | 190.80  | 6,522.6  | -2,444.6 | -466.4 | 520,981.47 | 581,456.73 |  | 32° 25' 55.837 N | 104° 12' 11.872 W |
| 7,200.0                      | 27.27       | 190.80  | 6,611.5  | -2,489.6 | -475.0 | 520,936.46 | 581,448.14 |  | 32° 25' 55.391 N | 104° 12' 11.973 W |
| 7,300.0                      | 27.27       | 190.80  | 6,700.4  | -2,534.6 | -483.5 | 520,891.45 | 581,439.55 |  | 32° 25' 54.946 N | 104° 12' 12.074 W |
| 7,400.0                      | 27.27       | 190.80  | 6,789.3  | -2,579.6 | -492.1 | 520,846.44 | 581,430.97 |  | 32° 25' 54.501 N | 104° 12' 12.175 W |
| 7,500.0                      | 27.27       | 190.80  | 6,878.2  | -2,624.6 | -500.7 | 520,801.43 | 581,422.38 |  | 32° 25' 54.056 N | 104° 12' 12.276 W |
| 7,600.0                      | 27.27       | 190.80  | 6,967.0  | -2,669.7 | -509.3 | 520,756.42 | 581,413.79 |  | 32° 25' 53.610 N | 104° 12' 12.377 W |
| 7,700.0                      | 27.27       | 190.80  | 7,055.9  | -2,714.7 | -517.9 | 520,711.41 | 581,405.21 |  | 32° 25' 53.165 N | 104° 12' 12.477 W |
| 7,800.0                      | 27.27       | 190.80  | 7,144.8  | -2,759.7 | -526.5 | 520,666.40 | 581,396.62 |  | 32° 25' 52.720 N | 104° 12' 12.578 W |
| 7,900.0                      | 27.27       | 190.80  | 7,233.7  | -2,804.7 | -535.1 | 520,621.39 | 581,388.03 |  | 32° 25' 52.274 N | 104° 12' 12.679 W |
| 8,000.0                      | 27.27       | 190.80  | 7,322.6  | -2,849.7 | -543.6 | 520,576.39 | 581,379.45 |  | 32° 25' 51.829 N | 104° 12' 12.780 W |
| 8,100.0                      | 27.27       | 190.80  | 7,411.5  | -2,894.7 | -552.2 | 520,531.38 | 581,370.86 |  | 32° 25' 51.384 N | 104° 12' 12.881 W |
| 8,140.4                      | 27.27       | 190.80  | 7,447.3  | -2,912.9 | -555.7 | 520,513.21 | 581,367.40 |  | 32° 25' 51.204 N | 104° 12' 12.921 W |
| Start Drop -2.00             |             |         |          |          |        |            |            |  |                  |                   |
| 8,200.0                      | 26.08       | 190.80  | 7,500.6  | -2,939.2 | -560.7 | 520,486.91 | 581,362.38 |  | 32° 25' 50.944 N | 104° 12' 12.980 W |
| 8,300.0                      | 24.08       | 190.80  | 7,591.2  | -2,980.8 | -568.7 | 520,445.28 | 581,354.44 |  | 32° 25' 50.532 N | 104° 12' 13.074 W |
| 8,400.0                      | 22.08       | 190.80  | 7,683.2  | -3,019.3 | -576.0 | 520,406.78 | 581,347.09 |  | 32° 25' 50.151 N | 104° 12' 13.160 W |
| 8,500.0                      | 20.08       | 190.80  | 7,776.5  | -3,054.6 | -582.7 | 520,371.45 | 581,340.35 |  | 32° 25' 49.802 N | 104° 12' 13.239 W |
| 8,600.0                      | 18.08       | 190.80  | 7,871.0  | -3,086.7 | -588.9 | 520,339.34 | 581,334.23 |  | 32° 25' 49.484 N | 104° 12' 13.311 W |
| 8,700.0                      | 16.08       | 190.80  | 7,966.6  | -3,115.6 | -594.4 | 520,310.50 | 581,328.72 |  | 32° 25' 49.199 N | 104° 12' 13.376 W |
| 8,800.0                      | 14.08       | 190.80  | 8,063.1  | -3,141.1 | -599.2 | 520,284.95 | 581,323.85 |  | 32° 25' 48.946 N | 104° 12' 13.433 W |
| 8,900.0                      | 12.08       | 190.80  | 8,160.5  | -3,163.4 | -603.5 | 520,262.72 | 581,319.61 |  | 32° 25' 48.726 N | 104° 12' 13.483 W |
| 9,000.0                      | 10.08       | 190.80  | 8,258.7  | -3,182.2 | -607.1 | 520,243.85 | 581,316.01 |  | 32° 25' 48.539 N | 104° 12' 13.525 W |
| 9,100.0                      | 8.08        | 190.80  | 8,357.4  | -3,197.7 | -610.0 | 520,228.35 | 581,313.05 |  | 32° 25' 48.386 N | 104° 12' 13.560 W |
| 9,200.0                      | 6.08        | 190.80  | 8,456.6  | -3,209.8 | -612.4 | 520,216.24 | 581,310.74 |  | 32° 25' 48.266 N | 104° 12' 13.587 W |
| 9,300.0                      | 4.08        | 190.80  | 8,556.2  | -3,218.5 | -614.0 | 520,207.55 | 581,309.08 |  | 32° 25' 48.180 N | 104° 12' 13.606 W |
| 9,400.0                      | 2.08        | 190.80  | 8,656.1  | -3,223.8 | -615.0 | 520,202.27 | 581,308.08 |  | 32° 25' 48.128 N | 104° 12' 13.618 W |
| 9,503.9                      | 0.00        | 0.00    | 8,760.0  | -3,225.6 | -615.4 | 520,200.42 | 581,307.72 |  | 32° 25' 48.110 N | 104° 12' 13.622 W |
| Start 62.5 hold at 9503.9 MD |             |         |          |          |        |            |            |  |                  |                   |
| 9,566.4                      | 0.00        | 0.00    | 8,822.5  | -3,225.6 | -615.4 | 520,200.42 | 581,307.72 |  | 32° 25' 48.110 N | 104° 12' 13.622 W |
| Start DLS 12.00 TFO 268.98   |             |         |          |          |        |            |            |  |                  |                   |
| 9,575.0                      | 1.03        | 268.98  | 8,831.1  | -3,225.7 | -615.4 | 520,200.42 | 581,307.65 |  | 32° 25' 48.109 N | 104° 12' 13.623 W |
| 9,600.0                      | 4.03        | 268.98  | 8,856.0  | -3,225.7 | -616.5 | 520,200.40 | 581,306.54 |  | 32° 25' 48.109 N | 104° 12' 13.636 W |
| 9,625.0                      | 7.03        | 268.98  | 8,880.9  | -3,225.7 | -619.0 | 520,200.36 | 581,304.14 |  | 32° 25' 48.109 N | 104° 12' 13.664 W |
| 9,650.0                      | 10.03       | 268.98  | 8,905.6  | -3,225.8 | -622.7 | 520,200.29 | 581,300.43 |  | 32° 25' 48.108 N | 104° 12' 13.707 W |

# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey                  |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
|---------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|------------------|-------------------|--|
| Measured<br>Depth<br>(usft)     | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |  |
| 9,675.0                         | 13.03              | 268.98         | 8,930.1                     | -3,225.9        | -627.7          | 520,200.20                | 581,295.43               | 32° 25' 48.107 N | 104° 12' 13.766 W |  |
| 9,700.0                         | 16.03              | 268.98         | 8,954.3                     | -3,226.0        | -633.9          | 520,200.09                | 581,289.16               | 32° 25' 48.106 N | 104° 12' 13.839 W |  |
| 9,725.0                         | 19.03              | 268.98         | 8,978.2                     | -3,226.1        | -641.5          | 520,199.96                | 581,281.64               | 32° 25' 48.105 N | 104° 12' 13.927 W |  |
| 9,750.0                         | 22.03              | 268.98         | 9,001.6                     | -3,226.3        | -650.2          | 520,199.80                | 581,272.87               | 32° 25' 48.104 N | 104° 12' 14.029 W |  |
| 9,775.0                         | 25.03              | 268.98         | 9,024.5                     | -3,226.4        | -660.2          | 520,199.63                | 581,262.89               | 32° 25' 48.102 N | 104° 12' 14.145 W |  |
| 9,800.0                         | 28.03              | 268.98         | 9,046.9                     | -3,226.6        | -671.4          | 520,199.43                | 581,251.73               | 32° 25' 48.100 N | 104° 12' 14.275 W |  |
| 9,825.0                         | 31.03              | 268.98         | 9,068.6                     | -3,226.9        | -683.7          | 520,199.21                | 581,239.41               | 32° 25' 48.098 N | 104° 12' 14.419 W |  |
| 9,850.0                         | 34.03              | 268.98         | 9,089.7                     | -3,227.1        | -697.1          | 520,198.97                | 581,225.97               | 32° 25' 48.096 N | 104° 12' 14.576 W |  |
| 9,875.0                         | 37.03              | 268.98         | 9,110.0                     | -3,227.4        | -711.6          | 520,198.72                | 581,211.45               | 32° 25' 48.094 N | 104° 12' 14.746 W |  |
| 9,900.0                         | 40.03              | 268.98         | 9,129.6                     | -3,227.6        | -727.2          | 520,198.44                | 581,195.88               | 32° 25' 48.091 N | 104° 12' 14.927 W |  |
| 9,925.0                         | 43.03              | 268.98         | 9,148.3                     | -3,227.9        | -743.8          | 520,198.15                | 581,179.31               | 32° 25' 48.089 N | 104° 12' 15.121 W |  |
| 9,943.1                         | 45.20              | 268.98         | 9,161.3                     | -3,228.1        | -756.4          | 520,197.92                | 581,166.73               | 32° 25' 48.086 N | 104° 12' 15.267 W |  |
| FTP-FSC 424H                    |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
| 9,950.0                         | 46.03              | 268.98         | 9,166.1                     | -3,228.2        | -761.3          | 520,197.83                | 581,161.78               | 32° 25' 48.086 N | 104° 12' 15.325 W |  |
| 9,975.0                         | 49.03              | 268.98         | 9,183.0                     | -3,228.6        | -779.7          | 520,197.51                | 581,143.35               | 32° 25' 48.083 N | 104° 12' 15.540 W |  |
| 10,000.0                        | 52.03              | 268.98         | 9,198.9                     | -3,228.9        | -799.0          | 520,197.17                | 581,124.05               | 32° 25' 48.079 N | 104° 12' 15.765 W |  |
| 10,025.0                        | 55.03              | 268.98         | 9,213.8                     | -3,229.3        | -819.1          | 520,196.81                | 581,103.96               | 32° 25' 48.076 N | 104° 12' 16.000 W |  |
| 10,050.0                        | 58.03              | 268.98         | 9,227.5                     | -3,229.6        | -840.0          | 520,196.44                | 581,083.11               | 32° 25' 48.073 N | 104° 12' 16.243 W |  |
| 10,075.0                        | 61.03              | 268.98         | 9,240.2                     | -3,230.0        | -861.5          | 520,196.06                | 581,061.57               | 32° 25' 48.069 N | 104° 12' 16.494 W |  |
| 10,100.0                        | 64.03              | 268.98         | 9,251.7                     | -3,230.4        | -883.7          | 520,195.67                | 581,039.39               | 32° 25' 48.066 N | 104° 12' 16.753 W |  |
| 10,125.0                        | 67.03              | 268.98         | 9,262.1                     | -3,230.8        | -906.4          | 520,195.26                | 581,016.64               | 32° 25' 48.062 N | 104° 12' 17.019 W |  |
| 10,150.0                        | 70.03              | 268.98         | 9,271.3                     | -3,231.2        | -929.7          | 520,194.85                | 580,993.38               | 32° 25' 48.058 N | 104° 12' 17.290 W |  |
| 10,175.0                        | 73.03              | 268.98         | 9,279.2                     | -3,231.6        | -953.4          | 520,194.43                | 580,969.68               | 32° 25' 48.054 N | 104° 12' 17.567 W |  |
| 10,200.0                        | 76.03              | 268.98         | 9,285.8                     | -3,232.1        | -977.5          | 520,194.00                | 580,945.59               | 32° 25' 48.050 N | 104° 12' 17.848 W |  |
| 10,225.0                        | 79.03              | 268.98         | 9,291.2                     | -3,232.5        | -1,001.9        | 520,193.57                | 580,921.19               | 32° 25' 48.046 N | 104° 12' 18.132 W |  |
| 10,250.0                        | 82.03              | 268.98         | 9,295.4                     | -3,232.9        | -1,026.6        | 520,193.13                | 580,896.54               | 32° 25' 48.042 N | 104° 12' 18.420 W |  |
| 10,275.0                        | 85.03              | 268.98         | 9,298.2                     | -3,233.4        | -1,051.4        | 520,192.69                | 580,871.70               | 32° 25' 48.038 N | 104° 12' 18.710 W |  |
| 10,300.0                        | 88.03              | 268.98         | 9,299.7                     | -3,233.8        | -1,076.3        | 520,192.25                | 580,846.75               | 32° 25' 48.034 N | 104° 12' 19.001 W |  |
| 10,316.4                        | 90.00              | 268.98         | 9,300.0                     | -3,234.1        | -1,092.8        | 520,191.96                | 580,830.33               | 32° 25' 48.031 N | 104° 12' 19.192 W |  |
| Start 9946.8 hold at 10316.4 MD |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
| 10,400.0                        | 90.00              | 268.98         | 9,300.0                     | -3,235.6        | -1,176.3        | 520,190.48                | 580,746.77               | 32° 25' 48.018 N | 104° 12' 20.168 W |  |
| 10,500.0                        | 90.00              | 268.98         | 9,300.0                     | -3,237.4        | -1,276.3        | 520,188.71                | 580,646.79               | 32° 25' 48.001 N | 104° 12' 21.334 W |  |
| 10,600.0                        | 90.00              | 268.98         | 9,300.0                     | -3,239.1        | -1,376.3        | 520,186.93                | 580,546.80               | 32° 25' 47.985 N | 104° 12' 22.501 W |  |
| 10,700.0                        | 90.00              | 268.98         | 9,300.0                     | -3,240.9        | -1,476.3        | 520,185.16                | 580,446.82               | 32° 25' 47.969 N | 104° 12' 23.667 W |  |
| 10,800.0                        | 90.00              | 268.98         | 9,300.0                     | -3,242.7        | -1,576.3        | 520,183.39                | 580,346.84               | 32° 25' 47.952 N | 104° 12' 24.834 W |  |
| 10,900.0                        | 90.00              | 268.98         | 9,300.0                     | -3,244.5        | -1,676.2        | 520,181.62                | 580,246.85               | 32° 25' 47.936 N | 104° 12' 26.001 W |  |
| 11,000.0                        | 90.00              | 268.98         | 9,300.0                     | -3,246.2        | -1,776.2        | 520,179.85                | 580,146.87               | 32° 25' 47.920 N | 104° 12' 27.167 W |  |
| 11,100.0                        | 90.00              | 268.98         | 9,300.0                     | -3,248.0        | -1,876.2        | 520,178.07                | 580,046.88               | 32° 25' 47.903 N | 104° 12' 28.334 W |  |
| 11,200.0                        | 90.00              | 268.98         | 9,300.0                     | -3,249.8        | -1,976.2        | 520,176.30                | 579,946.90               | 32° 25' 47.887 N | 104° 12' 29.501 W |  |
| 11,300.0                        | 90.00              | 268.98         | 9,300.0                     | -3,251.5        | -2,076.2        | 520,174.53                | 579,846.91               | 32° 25' 47.870 N | 104° 12' 30.667 W |  |
| 11,400.0                        | 90.00              | 268.98         | 9,300.0                     | -3,253.3        | -2,176.2        | 520,172.76                | 579,746.93               | 32° 25' 47.854 N | 104° 12' 31.834 W |  |
| 11,500.0                        | 90.00              | 268.98         | 9,300.0                     | -3,255.1        | -2,276.1        | 520,170.98                | 579,646.95               | 32° 25' 47.838 N | 104° 12' 33.001 W |  |
| 11,600.0                        | 90.00              | 268.98         | 9,300.0                     | -3,256.9        | -2,376.1        | 520,169.21                | 579,546.96               | 32° 25' 47.821 N | 104° 12' 34.167 W |  |
| 11,700.0                        | 90.00              | 268.98         | 9,300.0                     | -3,258.6        | -2,476.1        | 520,167.44                | 579,446.98               | 32° 25' 47.805 N | 104° 12' 35.334 W |  |
| 11,800.0                        | 90.00              | 268.98         | 9,300.0                     | -3,260.4        | -2,576.1        | 520,165.67                | 579,346.99               | 32° 25' 47.789 N | 104° 12' 36.501 W |  |
| 11,900.0                        | 90.00              | 268.98         | 9,300.0                     | -3,262.2        | -2,676.1        | 520,163.90                | 579,247.01               | 32° 25' 47.772 N | 104° 12' 37.667 W |  |
| 12,000.0                        | 90.00              | 268.98         | 9,300.0                     | -3,263.9        | -2,776.1        | 520,162.12                | 579,147.02               | 32° 25' 47.756 N | 104° 12' 38.834 W |  |
| 12,100.0                        | 90.00              | 268.98         | 9,300.0                     | -3,265.7        | -2,876.1        | 520,160.35                | 579,047.04               | 32° 25' 47.739 N | 104° 12' 40.001 W |  |
| 12,200.0                        | 90.00              | 268.98         | 9,300.0                     | -3,267.5        | -2,976.0        | 520,158.58                | 578,947.06               | 32° 25' 47.723 N | 104° 12' 41.167 W |  |
| 12,300.0                        | 90.00              | 268.98         | 9,300.0                     | -3,269.3        | -3,076.0        | 520,156.81                | 578,847.07               | 32° 25' 47.707 N | 104° 12' 42.334 W |  |
| 12,400.0                        | 90.00              | 268.98         | 9,300.0                     | -3,271.0        | -3,176.0        | 520,155.03                | 578,747.09               | 32° 25' 47.690 N | 104° 12' 43.501 W |  |
| 12,500.0                        | 90.00              | 268.98         | 9,300.0                     | -3,272.8        | -3,276.0        | 520,153.26                | 578,647.10               | 32° 25' 47.674 N | 104° 12' 44.667 W |  |
| 12,600.0                        | 90.00              | 268.98         | 9,300.0                     | -3,274.6        | -3,376.0        | 520,151.49                | 578,547.12               | 32° 25' 47.657 N | 104° 12' 45.834 W |  |
| 12,700.0                        | 90.00              | 268.98         | 9,300.0                     | -3,276.4        | -3,476.0        | 520,149.72                | 578,447.13               | 32° 25' 47.641 N | 104° 12' 47.000 W |  |



# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey        |                 |             |                       |              |              |                     |                    |                  |                   |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|---------------------|--------------------|------------------|-------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Map Northing (usft) | Map Easting (usft) | Latitude         | Longitude         |  |
| 12,800.0              | 90.00           | 268.98      | 9,300.0               | -3,278.1     | -3,575.9     | 520,147.95          | 578,347.15         | 32° 25' 47.624 N | 104° 12' 48.167 W |  |
| 12,900.0              | 90.00           | 268.98      | 9,300.0               | -3,279.9     | -3,675.9     | 520,146.17          | 578,247.17         | 32° 25' 47.608 N | 104° 12' 49.334 W |  |
| 13,000.0              | 90.00           | 268.98      | 9,300.0               | -3,281.7     | -3,775.9     | 520,144.40          | 578,147.18         | 32° 25' 47.592 N | 104° 12' 50.500 W |  |
| 13,100.0              | 90.00           | 268.98      | 9,300.0               | -3,283.4     | -3,875.9     | 520,142.63          | 578,047.20         | 32° 25' 47.575 N | 104° 12' 51.667 W |  |
| 13,200.0              | 90.00           | 268.98      | 9,300.0               | -3,285.2     | -3,975.9     | 520,140.86          | 577,947.21         | 32° 25' 47.559 N | 104° 12' 52.834 W |  |
| 13,300.0              | 90.00           | 268.98      | 9,300.0               | -3,287.0     | -4,075.9     | 520,139.08          | 577,847.23         | 32° 25' 47.542 N | 104° 12' 54.000 W |  |
| 13,400.0              | 90.00           | 268.98      | 9,300.0               | -3,288.8     | -4,175.8     | 520,137.31          | 577,747.24         | 32° 25' 47.526 N | 104° 12' 55.167 W |  |
| 13,500.0              | 90.00           | 268.98      | 9,300.0               | -3,290.5     | -4,275.8     | 520,135.54          | 577,647.26         | 32° 25' 47.509 N | 104° 12' 56.334 W |  |
| 13,600.0              | 90.00           | 268.98      | 9,300.0               | -3,292.3     | -4,375.8     | 520,133.77          | 577,547.28         | 32° 25' 47.493 N | 104° 12' 57.500 W |  |
| 13,700.0              | 90.00           | 268.98      | 9,300.0               | -3,294.1     | -4,475.8     | 520,132.00          | 577,447.29         | 32° 25' 47.476 N | 104° 12' 58.667 W |  |
| 13,800.0              | 90.00           | 268.98      | 9,300.0               | -3,295.8     | -4,575.8     | 520,130.22          | 577,347.31         | 32° 25' 47.460 N | 104° 12' 59.834 W |  |
| 13,900.0              | 90.00           | 268.98      | 9,300.0               | -3,297.6     | -4,675.8     | 520,128.45          | 577,247.32         | 32° 25' 47.444 N | 104° 13' 1.000 W  |  |
| 14,000.0              | 90.00           | 268.98      | 9,300.0               | -3,299.4     | -4,775.8     | 520,126.68          | 577,147.34         | 32° 25' 47.427 N | 104° 13' 2.167 W  |  |
| 14,100.0              | 90.00           | 268.98      | 9,300.0               | -3,301.2     | -4,875.7     | 520,124.91          | 577,047.35         | 32° 25' 47.411 N | 104° 13' 3.334 W  |  |
| 14,200.0              | 90.00           | 268.98      | 9,300.0               | -3,302.9     | -4,975.7     | 520,123.13          | 576,947.37         | 32° 25' 47.394 N | 104° 13' 4.500 W  |  |
| 14,300.0              | 90.00           | 268.98      | 9,300.0               | -3,304.7     | -5,075.7     | 520,121.36          | 576,847.39         | 32° 25' 47.378 N | 104° 13' 5.667 W  |  |
| 14,400.0              | 90.00           | 268.98      | 9,300.0               | -3,306.5     | -5,175.7     | 520,119.59          | 576,747.40         | 32° 25' 47.361 N | 104° 13' 6.834 W  |  |
| 14,500.0              | 90.00           | 268.98      | 9,300.0               | -3,308.3     | -5,275.7     | 520,117.82          | 576,647.42         | 32° 25' 47.345 N | 104° 13' 8.000 W  |  |
| 14,600.0              | 90.00           | 268.98      | 9,300.0               | -3,310.0     | -5,375.7     | 520,116.05          | 576,547.43         | 32° 25' 47.328 N | 104° 13' 9.167 W  |  |
| 14,700.0              | 90.00           | 268.98      | 9,300.0               | -3,311.8     | -5,475.6     | 520,114.27          | 576,447.45         | 32° 25' 47.312 N | 104° 13' 10.333 W |  |
| 14,800.0              | 90.00           | 268.98      | 9,300.0               | -3,313.6     | -5,575.6     | 520,112.50          | 576,347.46         | 32° 25' 47.295 N | 104° 13' 11.500 W |  |
| 14,900.0              | 90.00           | 268.98      | 9,300.0               | -3,315.3     | -5,675.6     | 520,110.73          | 576,247.48         | 32° 25' 47.279 N | 104° 13' 12.667 W |  |
| 15,000.0              | 90.00           | 268.98      | 9,300.0               | -3,317.1     | -5,775.6     | 520,108.96          | 576,147.49         | 32° 25' 47.262 N | 104° 13' 13.833 W |  |
| 15,100.0              | 90.00           | 268.98      | 9,300.0               | -3,318.9     | -5,875.6     | 520,107.19          | 576,047.51         | 32° 25' 47.246 N | 104° 13' 15.000 W |  |
| 15,200.0              | 90.00           | 268.98      | 9,300.0               | -3,320.7     | -5,975.6     | 520,105.41          | 575,947.53         | 32° 25' 47.229 N | 104° 13' 16.167 W |  |
| 15,300.0              | 90.00           | 268.98      | 9,300.0               | -3,322.4     | -6,075.6     | 520,103.64          | 575,847.54         | 32° 25' 47.213 N | 104° 13' 17.333 W |  |
| 15,400.0              | 90.00           | 268.98      | 9,300.0               | -3,324.2     | -6,175.5     | 520,101.87          | 575,747.56         | 32° 25' 47.196 N | 104° 13' 18.500 W |  |
| 15,500.0              | 90.00           | 268.98      | 9,300.0               | -3,326.0     | -6,275.5     | 520,100.10          | 575,647.57         | 32° 25' 47.180 N | 104° 13' 19.667 W |  |
| 15,600.0              | 90.00           | 268.98      | 9,300.0               | -3,327.7     | -6,375.5     | 520,098.32          | 575,547.59         | 32° 25' 47.163 N | 104° 13' 20.833 W |  |
| 15,700.0              | 90.00           | 268.98      | 9,300.0               | -3,329.5     | -6,475.5     | 520,096.55          | 575,447.60         | 32° 25' 47.147 N | 104° 13' 22.000 W |  |
| 15,800.0              | 90.00           | 268.98      | 9,300.0               | -3,331.3     | -6,575.5     | 520,094.78          | 575,347.62         | 32° 25' 47.130 N | 104° 13' 23.167 W |  |
| 15,900.0              | 90.00           | 268.98      | 9,300.0               | -3,333.1     | -6,675.5     | 520,093.01          | 575,247.64         | 32° 25' 47.114 N | 104° 13' 24.333 W |  |
| 16,000.0              | 90.00           | 268.98      | 9,300.0               | -3,334.8     | -6,775.4     | 520,091.24          | 575,147.65         | 32° 25' 47.097 N | 104° 13' 25.500 W |  |
| 16,100.0              | 90.00           | 268.98      | 9,300.0               | -3,336.6     | -6,875.4     | 520,089.46          | 575,047.67         | 32° 25' 47.081 N | 104° 13' 26.667 W |  |
| 16,200.0              | 90.00           | 268.98      | 9,300.0               | -3,338.4     | -6,975.4     | 520,087.69          | 574,947.68         | 32° 25' 47.064 N | 104° 13' 27.833 W |  |
| 16,300.0              | 90.00           | 268.98      | 9,300.0               | -3,340.2     | -7,075.4     | 520,085.92          | 574,847.70         | 32° 25' 47.048 N | 104° 13' 29.000 W |  |
| 16,400.0              | 90.00           | 268.98      | 9,300.0               | -3,341.9     | -7,175.4     | 520,084.15          | 574,747.71         | 32° 25' 47.031 N | 104° 13' 30.166 W |  |
| 16,500.0              | 90.00           | 268.98      | 9,300.0               | -3,343.7     | -7,275.4     | 520,082.37          | 574,647.73         | 32° 25' 47.015 N | 104° 13' 31.333 W |  |
| 16,600.0              | 90.00           | 268.98      | 9,300.0               | -3,345.5     | -7,375.3     | 520,080.60          | 574,547.75         | 32° 25' 46.998 N | 104° 13' 32.500 W |  |
| 16,700.0              | 90.00           | 268.98      | 9,300.0               | -3,347.2     | -7,475.3     | 520,078.83          | 574,447.76         | 32° 25' 46.982 N | 104° 13' 33.666 W |  |
| 16,800.0              | 90.00           | 268.98      | 9,300.0               | -3,349.0     | -7,575.3     | 520,077.06          | 574,347.78         | 32° 25' 46.965 N | 104° 13' 34.833 W |  |
| 16,900.0              | 90.00           | 268.98      | 9,300.0               | -3,350.8     | -7,675.3     | 520,075.29          | 574,247.79         | 32° 25' 46.948 N | 104° 13' 36.000 W |  |
| 17,000.0              | 90.00           | 268.98      | 9,300.0               | -3,352.6     | -7,775.3     | 520,073.51          | 574,147.81         | 32° 25' 46.932 N | 104° 13' 37.166 W |  |
| 17,100.0              | 90.00           | 268.98      | 9,300.0               | -3,354.3     | -7,875.3     | 520,071.74          | 574,047.82         | 32° 25' 46.915 N | 104° 13' 38.333 W |  |
| 17,200.0              | 90.00           | 268.98      | 9,300.0               | -3,356.1     | -7,975.3     | 520,069.97          | 573,947.84         | 32° 25' 46.899 N | 104° 13' 39.500 W |  |
| 17,300.0              | 90.00           | 268.98      | 9,300.0               | -3,357.9     | -8,075.2     | 520,068.20          | 573,847.86         | 32° 25' 46.882 N | 104° 13' 40.666 W |  |
| 17,400.0              | 90.00           | 268.98      | 9,300.0               | -3,359.6     | -8,175.2     | 520,066.42          | 573,747.87         | 32° 25' 46.866 N | 104° 13' 41.833 W |  |
| 17,500.0              | 90.00           | 268.98      | 9,300.0               | -3,361.4     | -8,275.2     | 520,064.65          | 573,647.89         | 32° 25' 46.849 N | 104° 13' 43.000 W |  |
| 17,600.0              | 90.00           | 268.98      | 9,300.0               | -3,363.2     | -8,375.2     | 520,062.88          | 573,547.90         | 32° 25' 46.833 N | 104° 13' 44.166 W |  |
| 17,700.0              | 90.00           | 268.98      | 9,300.0               | -3,365.0     | -8,475.2     | 520,061.11          | 573,447.92         | 32° 25' 46.816 N | 104° 13' 45.333 W |  |
| 17,800.0              | 90.00           | 268.98      | 9,300.0               | -3,366.7     | -8,575.2     | 520,059.34          | 573,347.93         | 32° 25' 46.799 N | 104° 13' 46.499 W |  |
| 17,900.0              | 90.00           | 268.98      | 9,300.0               | -3,368.5     | -8,675.1     | 520,057.56          | 573,247.95         | 32° 25' 46.783 N | 104° 13' 47.666 W |  |
| 18,000.0              | 90.00           | 268.98      | 9,300.0               | -3,370.3     | -8,775.1     | 520,055.79          | 573,147.97         | 32° 25' 46.766 N | 104° 13' 48.833 W |  |
| 18,100.0              | 90.00           | 268.98      | 9,300.0               | -3,372.1     | -8,875.1     | 520,054.02          | 573,047.98         | 32° 25' 46.750 N | 104° 13' 49.999 W |  |
| 18,200.0              | 90.00           | 268.98      | 9,300.0               | -3,373.8     | -8,975.1     | 520,052.25          | 572,948.00         | 32° 25' 46.733 N | 104° 13' 51.166 W |  |

# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey                          |                    |                |                 |                 |                 |                    |                   |                  |                   |  |
|-----------------------------------------|--------------------|----------------|-----------------|-----------------|-----------------|--------------------|-------------------|------------------|-------------------|--|
| Measured                                |                    |                | Vertical        |                 |                 | Map                | Map               |                  |                   |  |
| Depth<br>(usft)                         | Inclination<br>(°) | Azimuth<br>(°) | Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude         | Longitude         |  |
| 18,300.0                                | 90.00              | 268.98         | 9,300.0         | -3,375.6        | -9,075.1        | 520,050.47         | 572,848.01        | 32° 25' 46.716 N | 104° 13' 52.333 W |  |
| 18,400.0                                | 90.00              | 268.98         | 9,300.0         | -3,377.4        | -9,175.1        | 520,048.70         | 572,748.03        | 32° 25' 46.700 N | 104° 13' 53.499 W |  |
| 18,500.0                                | 90.00              | 268.98         | 9,300.0         | -3,379.1        | -9,275.0        | 520,046.93         | 572,648.04        | 32° 25' 46.683 N | 104° 13' 54.666 W |  |
| 18,600.0                                | 90.00              | 268.98         | 9,300.0         | -3,380.9        | -9,375.0        | 520,045.16         | 572,548.06        | 32° 25' 46.667 N | 104° 13' 55.833 W |  |
| 18,700.0                                | 90.00              | 268.98         | 9,300.0         | -3,382.7        | -9,475.0        | 520,043.39         | 572,448.08        | 32° 25' 46.650 N | 104° 13' 56.999 W |  |
| 18,800.0                                | 90.00              | 268.98         | 9,300.0         | -3,384.5        | -9,575.0        | 520,041.61         | 572,348.09        | 32° 25' 46.633 N | 104° 13' 58.166 W |  |
| 18,900.0                                | 90.00              | 268.98         | 9,300.0         | -3,386.2        | -9,675.0        | 520,039.84         | 572,248.11        | 32° 25' 46.617 N | 104° 13' 59.333 W |  |
| 19,000.0                                | 90.00              | 268.98         | 9,300.0         | -3,388.0        | -9,775.0        | 520,038.07         | 572,148.12        | 32° 25' 46.600 N | 104° 14' 0.499 W  |  |
| 19,100.0                                | 90.00              | 268.98         | 9,300.0         | -3,389.8        | -9,875.0        | 520,036.30         | 572,048.14        | 32° 25' 46.584 N | 104° 14' 1.666 W  |  |
| 19,200.0                                | 90.00              | 268.98         | 9,300.0         | -3,391.5        | -9,974.9        | 520,034.52         | 571,948.15        | 32° 25' 46.567 N | 104° 14' 2.832 W  |  |
| 19,300.0                                | 90.00              | 268.98         | 9,300.0         | -3,393.3        | -10,074.9       | 520,032.75         | 571,848.17        | 32° 25' 46.550 N | 104° 14' 3.999 W  |  |
| 19,400.0                                | 90.00              | 268.98         | 9,300.0         | -3,395.1        | -10,174.9       | 520,030.98         | 571,748.19        | 32° 25' 46.534 N | 104° 14' 5.166 W  |  |
| 19,500.0                                | 90.00              | 268.98         | 9,300.0         | -3,396.9        | -10,274.9       | 520,029.21         | 571,648.20        | 32° 25' 46.517 N | 104° 14' 6.332 W  |  |
| 19,600.0                                | 90.00              | 268.98         | 9,300.0         | -3,398.6        | -10,374.9       | 520,027.44         | 571,548.22        | 32° 25' 46.500 N | 104° 14' 7.499 W  |  |
| 19,700.0                                | 90.00              | 268.98         | 9,300.0         | -3,400.4        | -10,474.9       | 520,025.66         | 571,448.23        | 32° 25' 46.484 N | 104° 14' 8.666 W  |  |
| 19,800.0                                | 90.00              | 268.98         | 9,300.0         | -3,402.2        | -10,574.8       | 520,023.89         | 571,348.25        | 32° 25' 46.467 N | 104° 14' 9.832 W  |  |
| 19,900.0                                | 90.00              | 268.98         | 9,300.0         | -3,404.0        | -10,674.8       | 520,022.12         | 571,248.26        | 32° 25' 46.451 N | 104° 14' 10.999 W |  |
| 20,000.0                                | 90.00              | 268.98         | 9,300.0         | -3,405.7        | -10,774.8       | 520,020.35         | 571,148.28        | 32° 25' 46.434 N | 104° 14' 12.166 W |  |
| 20,100.0                                | 90.00              | 268.98         | 9,300.0         | -3,407.5        | -10,874.8       | 520,018.57         | 571,048.30        | 32° 25' 46.417 N | 104° 14' 13.332 W |  |
| 20,200.0                                | 90.00              | 268.98         | 9,300.0         | -3,409.3        | -10,974.8       | 520,016.80         | 570,948.31        | 32° 25' 46.401 N | 104° 14' 14.499 W |  |
| 20,263.2                                | 90.00              | 268.98         | 9,300.0         | -3,410.4        | -11,038.0       | 520,015.68         | 570,885.08        | 32° 25' 46.390 N | 104° 14' 15.237 W |  |
| Start DLS 2.00 TFO 89.99 - PP2-FSC 424H |                    |                |                 |                 |                 |                    |                   |                  |                   |  |
| 20,300.0                                | 90.00              | 269.72         | 9,300.0         | -3,410.8        | -11,074.8       | 520,015.27         | 570,848.32        | 32° 25' 46.386 N | 104° 14' 15.666 W |  |
| 20,314.8                                | 90.00              | 270.02         | 9,300.0         | -3,410.8        | -11,089.6       | 520,015.23         | 570,833.53        | 32° 25' 46.386 N | 104° 14' 15.838 W |  |
| Start 5077.7 hold at 20314.8 MD         |                    |                |                 |                 |                 |                    |                   |                  |                   |  |
| 20,400.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.8        | -11,174.8       | 520,015.25         | 570,748.32        | 32° 25' 46.387 N | 104° 14' 16.832 W |  |
| 20,500.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.8        | -11,274.8       | 520,015.28         | 570,648.32        | 32° 25' 46.388 N | 104° 14' 17.999 W |  |
| 20,600.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.8        | -11,374.8       | 520,015.31         | 570,548.32        | 32° 25' 46.389 N | 104° 14' 19.166 W |  |
| 20,700.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.7        | -11,474.8       | 520,015.34         | 570,448.32        | 32° 25' 46.391 N | 104° 14' 20.333 W |  |
| 20,800.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.7        | -11,574.8       | 520,015.36         | 570,348.32        | 32° 25' 46.392 N | 104° 14' 21.500 W |  |
| 20,900.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.7        | -11,674.8       | 520,015.39         | 570,248.32        | 32° 25' 46.393 N | 104° 14' 22.666 W |  |
| 21,000.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.7        | -11,774.8       | 520,015.42         | 570,148.32        | 32° 25' 46.394 N | 104° 14' 23.833 W |  |
| 21,100.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.6        | -11,874.8       | 520,015.45         | 570,048.32        | 32° 25' 46.395 N | 104° 14' 25.000 W |  |
| 21,200.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.6        | -11,974.8       | 520,015.47         | 569,948.32        | 32° 25' 46.396 N | 104° 14' 26.167 W |  |
| 21,300.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.6        | -12,074.8       | 520,015.50         | 569,848.32        | 32° 25' 46.397 N | 104° 14' 27.334 W |  |
| 21,400.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.5        | -12,174.8       | 520,015.53         | 569,748.32        | 32° 25' 46.398 N | 104° 14' 28.500 W |  |
| 21,500.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.5        | -12,274.8       | 520,015.55         | 569,648.32        | 32° 25' 46.400 N | 104° 14' 29.667 W |  |
| 21,600.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.5        | -12,374.8       | 520,015.58         | 569,548.32        | 32° 25' 46.401 N | 104° 14' 30.834 W |  |
| 21,700.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.5        | -12,474.8       | 520,015.61         | 569,448.32        | 32° 25' 46.402 N | 104° 14' 32.001 W |  |
| 21,800.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.4        | -12,574.8       | 520,015.64         | 569,348.32        | 32° 25' 46.403 N | 104° 14' 33.168 W |  |
| 21,900.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.4        | -12,674.8       | 520,015.66         | 569,248.32        | 32° 25' 46.404 N | 104° 14' 34.334 W |  |
| 22,000.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.4        | -12,774.8       | 520,015.69         | 569,148.32        | 32° 25' 46.405 N | 104° 14' 35.501 W |  |
| 22,100.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.4        | -12,874.8       | 520,015.72         | 569,048.32        | 32° 25' 46.406 N | 104° 14' 36.668 W |  |
| 22,200.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.3        | -12,974.8       | 520,015.74         | 568,948.32        | 32° 25' 46.407 N | 104° 14' 37.835 W |  |
| 22,300.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.3        | -13,074.8       | 520,015.77         | 568,848.32        | 32° 25' 46.408 N | 104° 14' 39.002 W |  |
| 22,400.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.3        | -13,174.8       | 520,015.80         | 568,748.32        | 32° 25' 46.410 N | 104° 14' 40.168 W |  |
| 22,500.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.2        | -13,274.8       | 520,015.83         | 568,648.32        | 32° 25' 46.411 N | 104° 14' 41.335 W |  |
| 22,600.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.2        | -13,374.8       | 520,015.85         | 568,548.32        | 32° 25' 46.412 N | 104° 14' 42.502 W |  |
| 22,700.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.2        | -13,474.8       | 520,015.88         | 568,448.32        | 32° 25' 46.413 N | 104° 14' 43.669 W |  |
| 22,800.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.2        | -13,574.8       | 520,015.91         | 568,348.32        | 32° 25' 46.414 N | 104° 14' 44.836 W |  |
| 22,900.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.1        | -13,674.8       | 520,015.93         | 568,248.32        | 32° 25' 46.415 N | 104° 14' 46.003 W |  |
| 23,000.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.1        | -13,774.8       | 520,015.96         | 568,148.32        | 32° 25' 46.416 N | 104° 14' 47.169 W |  |
| 23,100.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.1        | -13,874.8       | 520,015.99         | 568,048.32        | 32° 25' 46.417 N | 104° 14' 48.336 W |  |
| 23,200.0                                | 90.00              | 270.02         | 9,300.0         | -3,410.1        | -13,974.8       | 520,016.02         | 567,948.32        | 32° 25' 46.418 N | 104° 14' 49.503 W |  |

# PERMIAN

## RESOURCES

### Planning Report - Geographic

|                  |                     |                                     |                          |
|------------------|---------------------|-------------------------------------|--------------------------|
| <b>Database:</b> | Compass_17          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Company:</b>  | NEW MEXICO          | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Project:</b>  | (SP) EDDY           | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site:</b>     | FRED PROJECT        | <b>North Reference:</b>             | Grid                     |
| <b>Well:</b>     | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Wellbore:</b> | OWB                 |                                     |                          |
| <b>Design:</b>   | PWP0                |                                     |                          |

| Planned Survey                   |                    |                |                             |                 |                 |                           |                          |                  |                   |  |
|----------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|---------------------------|--------------------------|------------------|-------------------|--|
| Measured<br>Depth<br>(usft)      | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Map<br>Northing<br>(usft) | Map<br>Easting<br>(usft) | Latitude         | Longitude         |  |
| 23,300.0                         | 90.00              | 270.02         | 9,300.0                     | -3,410.0        | -14,074.8       | 520,016.04                | 567,848.32               | 32° 25' 46.419 N | 104° 14' 50.670 W |  |
| 23,400.0                         | 90.00              | 270.02         | 9,300.0                     | -3,410.0        | -14,174.8       | 520,016.07                | 567,748.32               | 32° 25' 46.420 N | 104° 14' 51.837 W |  |
| 23,500.0                         | 90.00              | 270.02         | 9,300.0                     | -3,410.0        | -14,274.8       | 520,016.10                | 567,648.32               | 32° 25' 46.421 N | 104° 14' 53.003 W |  |
| 23,600.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.9        | -14,374.8       | 520,016.12                | 567,548.32               | 32° 25' 46.422 N | 104° 14' 54.170 W |  |
| 23,700.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.9        | -14,474.8       | 520,016.15                | 567,448.32               | 32° 25' 46.423 N | 104° 14' 55.337 W |  |
| 23,800.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.9        | -14,574.8       | 520,016.18                | 567,348.32               | 32° 25' 46.425 N | 104° 14' 56.504 W |  |
| 23,900.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.9        | -14,674.8       | 520,016.21                | 567,248.32               | 32° 25' 46.426 N | 104° 14' 57.671 W |  |
| 24,000.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.8        | -14,774.8       | 520,016.23                | 567,148.32               | 32° 25' 46.427 N | 104° 14' 58.837 W |  |
| 24,100.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.8        | -14,874.8       | 520,016.26                | 567,048.32               | 32° 25' 46.428 N | 104° 15' 0.004 W  |  |
| 24,200.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.8        | -14,974.8       | 520,016.29                | 566,948.32               | 32° 25' 46.429 N | 104° 15' 1.171 W  |  |
| 24,300.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.8        | -15,074.8       | 520,016.31                | 566,848.32               | 32° 25' 46.430 N | 104° 15' 2.338 W  |  |
| 24,400.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.7        | -15,174.8       | 520,016.34                | 566,748.32               | 32° 25' 46.431 N | 104° 15' 3.505 W  |  |
| 24,500.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.7        | -15,274.8       | 520,016.37                | 566,648.32               | 32° 25' 46.432 N | 104° 15' 4.671 W  |  |
| 24,600.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.7        | -15,374.8       | 520,016.40                | 566,548.32               | 32° 25' 46.433 N | 104° 15' 5.838 W  |  |
| 24,700.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.6        | -15,474.8       | 520,016.42                | 566,448.32               | 32° 25' 46.434 N | 104° 15' 7.005 W  |  |
| 24,800.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.6        | -15,574.8       | 520,016.45                | 566,348.32               | 32° 25' 46.435 N | 104° 15' 8.172 W  |  |
| 24,900.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.6        | -15,674.8       | 520,016.48                | 566,248.32               | 32° 25' 46.436 N | 104° 15' 9.339 W  |  |
| 25,000.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.6        | -15,774.8       | 520,016.50                | 566,148.32               | 32° 25' 46.437 N | 104° 15' 10.505 W |  |
| 25,100.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.5        | -15,874.8       | 520,016.53                | 566,048.32               | 32° 25' 46.438 N | 104° 15' 11.672 W |  |
| 25,200.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.5        | -15,974.8       | 520,016.56                | 565,948.32               | 32° 25' 46.439 N | 104° 15' 12.839 W |  |
| 25,300.0                         | 90.00              | 270.02         | 9,300.0                     | -3,409.5        | -16,074.8       | 520,016.59                | 565,848.32               | 32° 25' 46.440 N | 104° 15' 14.006 W |  |
| 25,392.5                         | 90.00              | 270.02         | 9,300.0                     | -3,409.5        | -16,167.3       | 520,016.61                | 565,755.82               | 32° 25' 46.441 N | 104° 15' 15.085 W |  |
| TD at 25392.5 - LTP/BHL-FSC 424H |                    |                |                             |                 |                 |                           |                          |                  |                   |  |

| Design Targets                                                                              |           |          |         |          |           |            |            |                  |                   |  |
|---------------------------------------------------------------------------------------------|-----------|----------|---------|----------|-----------|------------|------------|------------------|-------------------|--|
| Target Name                                                                                 |           |          |         |          |           |            |            |                  |                   |  |
| - hit/miss target                                                                           | Dip Angle | Dip Dir. | TVD     | +N/-S    | +E/-W     | Northing   | Easting    |                  |                   |  |
| - Shape                                                                                     | (°)       | (°)      | (usft)  | (usft)   | (usft)    | (usft)     | (usft)     | Latitude         | Longitude         |  |
| FTP-FSC 424H                                                                                | 0.00      | 0.00     | 9,300.0 | -3,225.6 | -615.4    | 520,200.42 | 581,307.72 | 32° 25' 48.110 N | 104° 12' 13.622 W |  |
| - plan misses target center by 197.8usft at 9943.1usft MD (9161.3 TVD, -3228.1 N, -756.4 E) |           |          |         |          |           |            |            |                  |                   |  |
| - Point                                                                                     |           |          |         |          |           |            |            |                  |                   |  |
| PP2-FSC 424H                                                                                | 0.00      | 0.00     | 9,300.0 | -3,410.4 | -11,038.0 | 520,015.68 | 570,885.08 | 32° 25' 46.390 N | 104° 14' 15.237 W |  |
| - plan hits target center                                                                   |           |          |         |          |           |            |            |                  |                   |  |
| - Point                                                                                     |           |          |         |          |           |            |            |                  |                   |  |
| LTP/BHL-FSC 424H                                                                            | 0.00      | 0.00     | 9,300.0 | -3,409.5 | -16,167.3 | 520,016.61 | 565,755.82 | 32° 25' 46.441 N | 104° 15' 15.085 W |  |
| - plan hits target center                                                                   |           |          |         |          |           |            |            |                  |                   |  |
| - Point                                                                                     |           |          |         |          |           |            |            |                  |                   |  |

| Plan Annotations      |                       |                   |              |                                 |  |
|-----------------------|-----------------------|-------------------|--------------|---------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              | Comment                         |  |
| 1,000.0               | 1,000.0               | +N/-S (usft)      | +E/-W (usft) | Start Build 2.00                |  |
| 2,363.6               | 2,312.7               | -312.8            | -59.7        | Start 5776.8 hold at 2363.6 MD  |  |
| 8,140.4               | 7,447.3               | -2,912.9          | -555.7       | Start Drop -2.00                |  |
| 9,503.9               | 8,760.0               | -3,225.6          | -615.4       | Start 62.5 hold at 9503.9 MD    |  |
| 9,566.4               | 8,822.5               | -3,225.6          | -615.4       | Start DLS 12.00 TFO 268.98      |  |
| 10,316.4              | 9,300.0               | -3,234.1          | -1,092.8     | Start 9946.8 hold at 10316.4 MD |  |
| 20,263.2              | 9,300.0               | -3,410.4          | -11,038.0    | Start DLS 2.00 TFO 89.99        |  |
| 20,314.8              | 9,300.0               | -3,410.8          | -11,089.6    | Start 5077.7 hold at 20314.8 MD |  |
| 25,392.5              | 9,300.0               | -3,409.5          | -16,167.3    | TD at 25392.5                   |  |

# **PERMIAN**

## **R E S O U R C E S**

### **NEW MEXICO**

**(SP) EDDY**

**FRED PROJECT**

**FRED STATE COM 424H**

**OWB**

**PWP0**

## **Anticollision Report**

**03 April, 2025**

**PERMIAN****RESOURCES**

## Anticollision Report

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

| Reference                    | PWP0                                                                |                |                     |
|------------------------------|---------------------------------------------------------------------|----------------|---------------------|
| Filter type:                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                |                     |
| Interpolation Method:        | Stations                                                            | Error Model:   | ISCWSA              |
| Depth Range:                 | Unlimited                                                           | Scan Method:   | Closest Approach 3D |
| Results Limited by:          | Maximum centre distance of 1,000.0usft                              | Error Surface: | Pedal Curve         |
| Warning Levels Evaluated at: | 2.00 Sigma                                                          | Casing Method: | Not applied         |

| Survey Tool Program |              | Date              | 4/3/2025  |                           |  |
|---------------------|--------------|-------------------|-----------|---------------------------|--|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore) | Tool Name | Description               |  |
| 0.0                 | 25,392.5     | PWP0 (OWB)        | MWD       | OWSG_Rev2_ MWD - Standard |  |

| Summary                          |           |          |          |          |            |         |
|----------------------------------|-----------|----------|----------|----------|------------|---------|
| Site Name                        | Reference | Offset   | Distance |          | Separation | Warning |
|                                  | Measured  | Measured | Between  | Between  |            |         |
| Offset Well - Wellbore - Design  | Depth     | Depth    | Centres  | Ellipses | Factor     |         |
|                                  |           |          |          |          |            |         |
| FRED PROJECT                     |           |          |          |          |            |         |
| FRED STATE COM 421H - OWB - PWP0 | 1,000.0   | 1,000.0  | 90.0     | 83.0     | 12.942     | CC, ES  |
| FRED STATE COM 421H - OWB - PWP0 | 1,300.0   | 1,291.8  | 100.2    | 91.2     | 11.157     | SF      |
| FRED STATE COM 422H - OWB - PWP0 | 1,000.0   | 1,000.0  | 60.0     | 53.0     | 8.628      | CC, ES  |
| FRED STATE COM 422H - OWB - PWP0 | 1,300.0   | 1,295.5  | 67.9     | 58.9     | 7.591      | SF      |
| FRED STATE COM 423H - OWB - PWP0 | 1,000.0   | 1,000.0  | 30.0     | 23.0     | 4.314      | CC      |
| FRED STATE COM 423H - OWB - PWP0 | 1,200.0   | 1,199.4  | 30.8     | 22.5     | 3.711      | ES      |
| FRED STATE COM 423H - OWB - PWP0 | 2,000.0   | 1,997.1  | 48.2     | 33.5     | 3.279      | SF      |

|                              |                                                 |                              |                              |                         |                               |                     |                       |                     |                               |                                |                          |                           |          |
|------------------------------|-------------------------------------------------|------------------------------|------------------------------|-------------------------|-------------------------------|---------------------|-----------------------|---------------------|-------------------------------|--------------------------------|--------------------------|---------------------------|----------|
| <b>Offset Design:</b>        | FRED PROJECT - FRED STATE COM 421H - OWB - PWP0 |                              |                              |                         |                               |                     |                       |                     |                               |                                |                          | <b>Offset Site Error:</b> | 0.0 usft |
| <b>Survey Program:</b>       | 0-MWD                                           |                              |                              |                         |                               |                     |                       |                     |                               |                                |                          | <b>Offset Well Error:</b> | 0.0 usft |
| <b>Reference</b>             | <b>Vertical</b>                                 | <b>Offset</b>                | <b>Semi Major Axis</b>       | <b>Highside</b>         | <b>Offset Wellbore Centre</b> | <b>Distance</b>     | <b>Rule Assigned:</b> | <b>Minimum</b>      | <b>Separation</b>             | <b>Warning</b>                 |                          |                           |          |
| <b>Measured Depth (usft)</b> | <b>Depth (usft)</b>                             | <b>Measured Depth (usft)</b> | <b>Vertical Depth (usft)</b> | <b>Reference (usft)</b> | <b>Offset (usft)</b>          | <b>Toolface (°)</b> | <b>+N/-S (usft)</b>   | <b>+E/-W (usft)</b> | <b>Between Centres (usft)</b> | <b>Between Ellipses (usft)</b> | <b>Separation (usft)</b> | <b>Factor</b>             |          |
| 0.0                          | 0.0                                             | 0.0                          | 0.0                          | 0.0                     | 0.0                           | -90.00              | 0.0                   | -90.0               | 90.0                          |                                |                          |                           |          |
| 100.0                        | 100.0                                           | 100.0                        | 100.0                        | 0.3                     | 0.3                           | -90.00              | 0.0                   | -90.0               | 90.0                          | 89.5                           | 0.50                     | 179.333                   |          |
| 200.0                        | 200.0                                           | 200.0                        | 200.0                        | 0.6                     | 0.6                           | -90.00              | 0.0                   | -90.0               | 90.0                          | 88.8                           | 1.22                     | 73.843                    |          |
| 300.0                        | 300.0                                           | 300.0                        | 300.0                        | 1.0                     | 1.0                           | -90.00              | 0.0                   | -90.0               | 90.0                          | 88.1                           | 1.94                     | 46.494                    |          |
| 400.0                        | 400.0                                           | 400.0                        | 400.0                        | 1.3                     | 1.3                           | -90.00              | 0.0                   | -90.0               | 90.0                          | 87.3                           | 2.65                     | 33.928                    |          |
| 500.0                        | 500.0                                           | 500.0                        | 500.0                        | 1.7                     | 1.7                           | -90.00              | 0.0                   | -90.0               | 90.0                          | 86.6                           | 3.37                     | 26.709                    |          |
| 600.0                        | 600.0                                           | 600.0                        | 600.0                        | 2.0                     | 2.0                           | -90.00              | 0.0                   | -90.0               | 90.0                          | 85.9                           | 4.09                     | 22.023                    |          |
| 700.0                        | 700.0                                           | 700.0                        | 700.0                        | 2.4                     | 2.4                           | -90.00              | 0.0                   | -90.0               | 90.0                          | 85.2                           | 4.80                     | 18.736                    |          |
| 800.0                        | 800.0                                           | 800.0                        | 800.0                        | 2.8                     | 2.8                           | -90.00              | 0.0                   | -90.0               | 90.0                          | 84.5                           | 5.52                     | 16.303                    |          |
| 900.0                        | 900.0                                           | 900.0                        | 900.0                        | 3.1                     | 3.1                           | -90.00              | 0.0                   | -90.0               | 90.0                          | 83.8                           | 6.24                     | 14.429                    |          |
| 1,000.0                      | 1,000.0                                         | 1,000.0                      | 1,000.0                      | 3.5                     | 3.5                           | -90.00              | 0.0                   | -90.0               | 90.0                          | 83.0                           | 6.95                     | 12.942                    | CC, ES   |
| 1,100.0                      | 1,100.0                                         | 1,098.0                      | 1,098.0                      | 3.8                     | 3.8                           | 81.09               | 1.3                   | -91.0               | 90.8                          | 83.1                           | 7.64                     | 11.875                    |          |
| 1,200.0                      | 1,199.8                                         | 1,195.5                      | 1,195.3                      | 4.1                     | 4.2                           | 86.49               | 5.3                   | -94.0               | 93.6                          | 85.3                           | 8.31                     | 11.265                    |          |
| 1,300.0                      | 1,299.5                                         | 1,291.8                      | 1,291.3                      | 4.5                     | 4.5                           | 94.53               | 11.8                  | -99.0               | 100.2                         | 91.2                           | 8.98                     | 11.157                    | SF       |
| 1,400.0                      | 1,398.7                                         | 1,387.8                      | 1,386.6                      | 4.8                     | 4.9                           | 103.79              | 20.7                  | -105.7              | 112.0                         | 102.3                          | 9.65                     | 11.607                    |          |
| 1,500.0                      | 1,497.5                                         | 1,484.6                      | 1,482.7                      | 5.2                     | 5.2                           | 112.63              | 30.0                  | -112.7              | 128.2                         | 117.9                          | 10.34                    | 12.397                    |          |
| 1,600.0                      | 1,595.6                                         | 1,580.5                      | 1,577.9                      | 5.6                     | 5.6                           | 120.40              | 39.2                  | -119.7              | 148.7                         | 137.7                          | 11.05                    | 13.464                    |          |
| 1,700.0                      | 1,693.1                                         | 1,675.3                      | 1,672.1                      | 6.0                     | 5.9                           | 127.00              | 48.4                  | -126.7              | 173.5                         | 161.8                          | 11.76                    | 14.760                    |          |
| 1,800.0                      | 1,789.6                                         | 1,769.1                      | 1,765.2                      | 6.4                     | 6.3                           | 132.52              | 57.4                  | -133.5              | 202.5                         | 190.0                          | 12.47                    | 16.240                    |          |
| 1,900.0                      | 1,885.3                                         | 1,861.7                      | 1,857.1                      | 6.9                     | 6.7                           | 137.09              | 66.4                  | -140.3              | 235.5                         | 222.3                          | 13.18                    | 17.863                    |          |
| 2,000.0                      | 1,979.8                                         | 1,952.9                      | 1,947.6                      | 7.4                     | 7.0                           | 140.88              | 75.2                  | -146.9              | 272.2                         | 258.4                          | 13.89                    | 19.597                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

# PERMIAN

## RESOURCES

### Anticollision Report

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

|                                                                       |                              |                              |                              |                         |                      |                              |                               |                     |                               |                                |                                  |                          |                                    |
|-----------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|-------------------------|----------------------|------------------------------|-------------------------------|---------------------|-------------------------------|--------------------------------|----------------------------------|--------------------------|------------------------------------|
| <b>Offset Design:</b> FRED PROJECT - FRED STATE COM 421H - OWB - PWP0 |                              |                              |                              |                         |                      |                              |                               |                     |                               |                                |                                  |                          | <b>Offset Site Error:</b> 0.0 usft |
| <b>Survey Program:</b> 0-MWD                                          |                              |                              |                              |                         |                      |                              |                               |                     |                               |                                |                                  |                          | <b>Offset Well Error:</b> 0.0 usft |
| <b>Reference</b>                                                      |                              | <b>Offset</b>                |                              | <b>Semi Major Axis</b>  |                      | <b>Highside Toolface (°)</b> | <b>Offset Wellbore Centre</b> |                     | <b>Rule Assigned:</b>         |                                |                                  |                          | <b>Warning</b>                     |
| <b>Measured Depth (usft)</b>                                          | <b>Vertical Depth (usft)</b> | <b>Measured Depth (usft)</b> | <b>Vertical Depth (usft)</b> | <b>Reference (usft)</b> | <b>Offset (usft)</b> |                              | <b>+N/-S (usft)</b>           | <b>+E/-W (usft)</b> | <b>Between Centres (usft)</b> | <b>Between Ellipses (usft)</b> | <b>Minimum Separation (usft)</b> | <b>Separation Factor</b> |                                    |
| 2,100.0                                                               | 2,073.2                      | 2,042.7                      | 2,036.7                      | 7.9                     | 7.4                  | 144.03                       | 83.8                          | -153.5              | 312.7                         | 298.1                          | 14.60                            | 21.416                   |                                    |
| 2,200.0                                                               | 2,165.2                      | 2,130.9                      | 2,124.3                      | 8.5                     | 7.7                  | 146.65                       | 92.3                          | -159.9              | 356.6                         | 341.3                          | 15.31                            | 23.301                   |                                    |
| 2,300.0                                                               | 2,255.8                      | 2,217.4                      | 2,210.2                      | 9.1                     | 8.0                  | 148.85                       | 100.7                         | -166.3              | 404.0                         | 388.0                          | 16.01                            | 25.239                   |                                    |
| 2,363.6                                                               | 2,312.7                      | 2,271.5                      | 2,263.9                      | 9.5                     | 8.3                  | 150.06                       | 105.9                         | -170.2              | 435.8                         | 419.3                          | 16.45                            | 26.490                   |                                    |
| 2,400.0                                                               | 2,345.0                      | 2,302.3                      | 2,294.4                      | 9.8                     | 8.4                  | 150.90                       | 108.8                         | -172.5              | 454.4                         | 437.7                          | 16.70                            | 27.205                   |                                    |
| 2,500.0                                                               | 2,433.9                      | 2,386.8                      | 2,378.3                      | 10.5                    | 8.7                  | 152.89                       | 117.0                         | -178.6              | 505.8                         | 488.4                          | 17.39                            | 29.086                   |                                    |
| 2,600.0                                                               | 2,522.8                      | 2,471.3                      | 2,462.2                      | 11.2                    | 9.0                  | 154.51                       | 125.1                         | -184.8              | 557.7                         | 539.6                          | 18.08                            | 30.838                   |                                    |
| 2,700.0                                                               | 2,611.7                      | 2,555.8                      | 2,546.1                      | 11.9                    | 9.4                  | 155.87                       | 133.3                         | -191.0              | 609.8                         | 591.0                          | 18.78                            | 32.470                   |                                    |
| 2,800.0                                                               | 2,700.6                      | 2,640.4                      | 2,630.0                      | 12.6                    | 9.7                  | 157.02                       | 141.4                         | -197.2              | 662.1                         | 642.6                          | 19.48                            | 33.990                   |                                    |
| 2,900.0                                                               | 2,789.5                      | 2,724.9                      | 2,713.9                      | 13.4                    | 10.0                 | 158.00                       | 149.6                         | -203.3              | 714.6                         | 694.4                          | 20.18                            | 35.407                   |                                    |
| 3,000.0                                                               | 2,878.4                      | 2,809.4                      | 2,797.8                      | 14.1                    | 10.4                 | 158.84                       | 157.7                         | -209.5              | 767.2                         | 746.3                          | 20.89                            | 36.730                   |                                    |
| 3,100.0                                                               | 2,967.2                      | 2,893.9                      | 2,881.7                      | 14.9                    | 10.7                 | 159.58                       | 165.9                         | -215.7              | 819.9                         | 798.3                          | 21.60                            | 37.966                   |                                    |
| 3,200.0                                                               | 3,056.1                      | 2,978.4                      | 2,965.6                      | 15.7                    | 11.0                 | 160.23                       | 174.0                         | -221.9              | 872.7                         | 850.4                          | 22.31                            | 39.122                   |                                    |
| 3,300.0                                                               | 3,145.0                      | 3,063.0                      | 3,049.5                      | 16.4                    | 11.4                 | 160.81                       | 182.2                         | -228.0              | 925.6                         | 902.6                          | 23.02                            | 40.206                   |                                    |
| 3,400.0                                                               | 3,233.9                      | 3,147.5                      | 3,133.4                      | 17.2                    | 11.7                 | 161.33                       | 190.3                         | -234.2              | 978.6                         | 954.8                          | 23.74                            | 41.223                   |                                    |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

**PERMIAN****RESOURCES****Anticollision Report**

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

|                                                                       |                              |                              |                              |                         |                      |                              |                                            |                     |                               |                                |                                  |                           |          |
|-----------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|-------------------------|----------------------|------------------------------|--------------------------------------------|---------------------|-------------------------------|--------------------------------|----------------------------------|---------------------------|----------|
| <b>Offset Design:</b> FRED PROJECT - FRED STATE COM 422H - OWB - PWP0 |                              |                              |                              |                         |                      |                              |                                            |                     |                               |                                |                                  | <b>Offset Site Error:</b> | 0.0 usft |
| <b>Survey Program:</b> 0-MWD                                          |                              |                              |                              |                         |                      |                              |                                            |                     |                               |                                |                                  | <b>Offset Well Error:</b> | 0.0 usft |
| <b>Reference</b>                                                      | <b>Offset</b>                | <b>Semi Major Axis</b>       |                              | <b>Distance</b>         |                      | <b>Rule Assigned:</b>        |                                            | <b>Warning</b>      |                               |                                |                                  |                           |          |
| <b>Measured Depth (usft)</b>                                          | <b>Vertical Depth (usft)</b> | <b>Measured Depth (usft)</b> | <b>Vertical Depth (usft)</b> | <b>Reference (usft)</b> | <b>Offset (usft)</b> | <b>Highside Toolface (°)</b> | <b>Offset Wellbore Centre +N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Between Centres (usft)</b> | <b>Between Ellipses (usft)</b> | <b>Minimum Separation (usft)</b> | <b>Separation Factor</b>  |          |
| 0.0                                                                   | 0.0                          | 0.0                          | 0.0                          | 0.0                     | 0.0                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          |                                |                                  |                           |          |
| 100.0                                                                 | 100.0                        | 100.0                        | 100.0                        | 0.3                     | 0.3                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          | 59.5                           | 0.50                             | 119.555                   |          |
| 200.0                                                                 | 200.0                        | 200.0                        | 200.0                        | 0.6                     | 0.6                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          | 58.8                           | 1.22                             | 49.229                    |          |
| 300.0                                                                 | 300.0                        | 300.0                        | 300.0                        | 1.0                     | 1.0                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          | 58.1                           | 1.94                             | 30.996                    |          |
| 400.0                                                                 | 400.0                        | 400.0                        | 400.0                        | 1.3                     | 1.3                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          | 57.3                           | 2.65                             | 22.619                    |          |
| 500.0                                                                 | 500.0                        | 500.0                        | 500.0                        | 1.7                     | 1.7                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          | 56.6                           | 3.37                             | 17.806                    |          |
| 600.0                                                                 | 600.0                        | 600.0                        | 600.0                        | 2.0                     | 2.0                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          | 55.9                           | 4.09                             | 14.682                    |          |
| 700.0                                                                 | 700.0                        | 700.0                        | 700.0                        | 2.4                     | 2.4                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          | 55.2                           | 4.80                             | 12.491                    |          |
| 800.0                                                                 | 800.0                        | 800.0                        | 800.0                        | 2.8                     | 2.8                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          | 54.5                           | 5.52                             | 10.869                    |          |
| 900.0                                                                 | 900.0                        | 900.0                        | 900.0                        | 3.1                     | 3.1                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          | 53.8                           | 6.24                             | 9.619                     |          |
| 1,000.0                                                               | 1,000.0                      | 1,000.0                      | 1,000.0                      | 3.5                     | 3.5                  | -90.00                       | 0.0                                        | -60.0               | 60.0                          | 53.0                           | 6.95                             | 8.628 CC, ES              |          |
| 1,100.0                                                               | 1,100.0                      | 1,098.6                      | 1,098.5                      | 3.8                     | 3.8                  | 79.62                        | -1.2                                       | -61.2               | 60.9                          | 53.2                           | 7.63                             | 7.975                     |          |
| 1,200.0                                                               | 1,199.8                      | 1,197.1                      | 1,196.9                      | 4.1                     | 4.1                  | 80.81                        | -4.9                                       | -64.7               | 63.5                          | 55.2                           | 8.28                             | 7.665                     |          |
| 1,300.0                                                               | 1,299.5                      | 1,295.5                      | 1,294.9                      | 4.5                     | 4.5                  | 82.58                        | -11.0                                      | -70.5               | 67.9                          | 58.9                           | 8.94                             | 7.591 SF                  |          |
| 1,400.0                                                               | 1,398.7                      | 1,394.4                      | 1,393.1                      | 4.8                     | 4.8                  | 84.88                        | -19.4                                      | -78.5               | 73.9                          | 64.3                           | 9.62                             | 7.682                     |          |
| 1,500.0                                                               | 1,497.5                      | 1,494.0                      | 1,492.0                      | 5.2                     | 5.2                  | 88.96                        | -28.2                                      | -87.0               | 80.3                          | 70.0                           | 10.34                            | 7.767                     |          |
| 1,600.0                                                               | 1,595.6                      | 1,593.4                      | 1,590.6                      | 5.6                     | 5.5                  | 94.67                        | -37.1                                      | -95.4               | 87.3                          | 76.2                           | 11.09                            | 7.874                     |          |
| 1,700.0                                                               | 1,693.1                      | 1,692.4                      | 1,688.9                      | 6.0                     | 5.9                  | 101.48                       | -45.9                                      | -103.8              | 95.7                          | 83.9                           | 11.86                            | 8.068                     |          |
| 1,800.0                                                               | 1,789.6                      | 1,790.9                      | 1,786.7                      | 6.4                     | 6.3                  | 108.82                       | -54.6                                      | -112.2              | 106.4                         | 93.7                           | 12.66                            | 8.404                     |          |
| 1,900.0                                                               | 1,885.3                      | 1,888.8                      | 1,883.9                      | 6.9                     | 6.7                  | 116.14                       | -63.3                                      | -120.5              | 120.1                         | 106.6                          | 13.46                            | 8.919                     |          |
| 2,000.0                                                               | 1,979.8                      | 1,986.0                      | 1,980.3                      | 7.4                     | 7.0                  | 123.01                       | -72.0                                      | -128.8              | 137.3                         | 123.0                          | 14.26                            | 9.625                     |          |
| 2,100.0                                                               | 2,073.2                      | 2,082.4                      | 2,075.9                      | 7.9                     | 7.4                  | 129.17                       | -80.5                                      | -137.0              | 158.3                         | 143.2                          | 15.05                            | 10.515                    |          |
| 2,200.0                                                               | 2,165.2                      | 2,177.7                      | 2,170.6                      | 8.5                     | 7.8                  | 134.53                       | -89.0                                      | -145.1              | 183.2                         | 167.4                          | 15.83                            | 11.573                    |          |
| 2,300.0                                                               | 2,255.8                      | 2,272.0                      | 2,264.2                      | 9.1                     | 8.1                  | 139.10                       | -97.4                                      | -153.1              | 212.0                         | 195.4                          | 16.59                            | 12.776                    |          |
| 2,363.6                                                               | 2,312.7                      | 2,331.4                      | 2,323.1                      | 9.5                     | 8.4                  | 141.63                       | -102.7                                     | -158.1              | 232.3                         | 215.2                          | 17.07                            | 13.604                    |          |
| 2,400.0                                                               | 2,345.0                      | 2,365.2                      | 2,356.7                      | 9.8                     | 8.5                  | 143.08                       | -105.7                                     | -161.0              | 244.4                         | 227.1                          | 17.35                            | 14.088                    |          |
| 2,500.0                                                               | 2,433.9                      | 2,458.2                      | 2,448.9                      | 10.5                    | 8.9                  | 146.44                       | -113.9                                     | -168.9              | 278.3                         | 260.2                          | 18.10                            | 15.379                    |          |
| 2,600.0                                                               | 2,522.8                      | 2,551.1                      | 2,541.1                      | 11.2                    | 9.2                  | 149.07                       | -122.2                                     | -176.8              | 312.9                         | 294.1                          | 18.85                            | 16.600                    |          |
| 2,700.0                                                               | 2,611.7                      | 2,644.0                      | 2,633.4                      | 11.9                    | 9.6                  | 151.19                       | -130.4                                     | -184.7              | 348.0                         | 328.4                          | 19.61                            | 17.747                    |          |
| 2,800.0                                                               | 2,700.6                      | 2,737.0                      | 2,725.6                      | 12.6                    | 10.0                 | 152.92                       | -138.7                                     | -192.6              | 383.4                         | 363.0                          | 20.37                            | 18.821                    |          |
| 2,900.0                                                               | 2,789.5                      | 2,829.9                      | 2,817.8                      | 13.4                    | 10.4                 | 154.36                       | -147.0                                     | -200.4              | 419.1                         | 398.0                          | 21.14                            | 19.825                    |          |
| 3,000.0                                                               | 2,878.4                      | 2,922.9                      | 2,910.1                      | 14.1                    | 10.7                 | 155.57                       | -155.2                                     | -208.3              | 455.0                         | 433.1                          | 21.91                            | 20.764                    |          |
| 3,100.0                                                               | 2,967.2                      | 3,015.8                      | 3,002.3                      | 14.9                    | 11.1                 | 156.61                       | -163.5                                     | -216.2              | 491.0                         | 468.3                          | 22.69                            | 21.642                    |          |
| 3,200.0                                                               | 3,056.1                      | 3,108.7                      | 3,094.5                      | 15.7                    | 11.5                 | 157.51                       | -171.7                                     | -224.1              | 527.1                         | 503.7                          | 23.47                            | 22.464                    |          |
| 3,300.0                                                               | 3,145.0                      | 3,201.7                      | 3,186.8                      | 16.4                    | 11.8                 | 158.29                       | -180.0                                     | -232.0              | 563.4                         | 539.1                          | 24.25                            | 23.234                    |          |
| 3,400.0                                                               | 3,233.9                      | 3,294.6                      | 3,279.0                      | 17.2                    | 12.2                 | 158.98                       | -188.3                                     | -239.9              | 599.7                         | 574.7                          | 25.03                            | 23.956                    |          |
| 3,500.0                                                               | 3,322.8                      | 3,387.6                      | 3,371.2                      | 18.0                    | 12.6                 | 159.59                       | -196.5                                     | -247.8              | 636.1                         | 610.3                          | 25.82                            | 24.635                    |          |
| 3,600.0                                                               | 3,411.7                      | 3,480.5                      | 3,463.5                      | 18.8                    | 13.0                 | 160.13                       | -204.8                                     | -255.7              | 672.6                         | 645.9                          | 26.61                            | 25.273                    |          |
| 3,700.0                                                               | 3,500.5                      | 3,573.4                      | 3,555.7                      | 19.6                    | 13.3                 | 160.62                       | -213.0                                     | -263.6              | 709.1                         | 681.6                          | 27.40                            | 25.873                    |          |
| 3,800.0                                                               | 3,589.4                      | 3,666.4                      | 3,647.9                      | 20.3                    | 13.7                 | 161.06                       | -221.3                                     | -271.5              | 745.6                         | 717.4                          | 28.20                            | 26.440                    |          |
| 3,900.0                                                               | 3,678.3                      | 3,759.3                      | 3,740.2                      | 21.1                    | 14.1                 | 161.46                       | -229.6                                     | -279.4              | 782.2                         | 753.2                          | 29.00                            | 26.974                    |          |
| 4,000.0                                                               | 3,767.2                      | 3,852.3                      | 3,832.4                      | 21.9                    | 14.5                 | 161.83                       | -237.8                                     | -287.3              | 818.8                         | 789.0                          | 29.79                            | 27.480                    |          |
| 4,100.0                                                               | 3,856.1                      | 3,945.2                      | 3,924.7                      | 22.7                    | 14.9                 | 162.16                       | -246.1                                     | -295.2              | 855.4                         | 824.8                          | 30.59                            | 27.959                    |          |
| 4,200.0                                                               | 3,945.0                      | 4,038.1                      | 4,016.9                      | 23.5                    | 15.2                 | 162.47                       | -254.3                                     | -303.1              | 892.0                         | 860.6                          | 31.40                            | 28.412                    |          |
| 4,300.0                                                               | 4,033.9                      | 4,131.1                      | 4,109.1                      | 24.3                    | 15.6                 | 162.75                       | -262.6                                     | -311.0              | 928.7                         | 896.5                          | 32.20                            | 28.843                    |          |
| 4,400.0                                                               | 4,122.7                      | 4,224.0                      | 4,201.4                      | 25.1                    | 16.0                 | 163.01                       | -270.9                                     | -318.8              | 965.4                         | 932.4                          | 33.00                            | 29.251                    |          |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



**PERMIAN****RESOURCES**

## Anticollision Report

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

|                                                                       |                              |                              |                              |                               |                      |                       |                     |                     |                               |                                |                                  |                           |                |
|-----------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|-------------------------------|----------------------|-----------------------|---------------------|---------------------|-------------------------------|--------------------------------|----------------------------------|---------------------------|----------------|
| <b>Offset Design:</b> FRED PROJECT - FRED STATE COM 423H - OWB - PWP0 |                              |                              |                              |                               |                      |                       |                     |                     |                               |                                |                                  | <b>Offset Site Error:</b> | 0.0 usft       |
| <b>Survey Program:</b> 0-MWD                                          |                              |                              |                              |                               |                      |                       |                     |                     |                               |                                |                                  | <b>Offset Well Error:</b> | 0.0 usft       |
| <b>Reference</b>                                                      | <b>Offset</b>                | <b>Semi Major Axis</b>       | <b>Highside</b>              | <b>Offset Wellbore Centre</b> | <b>Distance</b>      | <b>Rule Assigned:</b> |                     |                     |                               |                                |                                  |                           |                |
| <b>Measured Depth (usft)</b>                                          | <b>Vertical Depth (usft)</b> | <b>Measured Depth (usft)</b> | <b>Vertical Depth (usft)</b> | <b>Reference (usft)</b>       | <b>Offset (usft)</b> | <b>Toolface (°)</b>   | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Between Centres (usft)</b> | <b>Between Ellipses (usft)</b> | <b>Minimum Separation (usft)</b> | <b>Separation Factor</b>  | <b>Warning</b> |
| 0.0                                                                   | 0.0                          | 0.0                          | 0.0                          | 0.0                           | 0.0                  | -90.00                | 0.0                 | -30.0               | 30.0                          |                                |                                  |                           |                |
| 100.0                                                                 | 100.0                        | 100.0                        | 100.0                        | 0.3                           | 0.3                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 29.5                           | 0.50                             | 59.778                    |                |
| 200.0                                                                 | 200.0                        | 200.0                        | 200.0                        | 0.6                           | 0.6                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 28.8                           | 1.22                             | 24.614                    |                |
| 300.0                                                                 | 300.0                        | 300.0                        | 300.0                        | 1.0                           | 1.0                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 28.1                           | 1.94                             | 15.498                    |                |
| 400.0                                                                 | 400.0                        | 400.0                        | 400.0                        | 1.3                           | 1.3                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 27.3                           | 2.65                             | 11.309                    |                |
| 500.0                                                                 | 500.0                        | 500.0                        | 500.0                        | 1.7                           | 1.7                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 26.6                           | 3.37                             | 8.903                     |                |
| 600.0                                                                 | 600.0                        | 600.0                        | 600.0                        | 2.0                           | 2.0                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 25.9                           | 4.09                             | 7.341                     |                |
| 700.0                                                                 | 700.0                        | 700.0                        | 700.0                        | 2.4                           | 2.4                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 25.2                           | 4.80                             | 6.245                     |                |
| 800.0                                                                 | 800.0                        | 800.0                        | 800.0                        | 2.8                           | 2.8                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 24.5                           | 5.52                             | 5.434                     |                |
| 900.0                                                                 | 900.0                        | 900.0                        | 900.0                        | 3.1                           | 3.1                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 23.8                           | 6.24                             | 4.810                     |                |
| 1,000.0                                                               | 1,000.0                      | 1,000.0                      | 1,000.0                      | 3.5                           | 3.5                  | -90.00                | 0.0                 | -30.0               | 30.0                          | 23.0                           | 6.95                             | 4.314 CC                  |                |
| 1,100.0                                                               | 1,100.0                      | 1,099.7                      | 1,099.7                      | 3.8                           | 3.8                  | 79.30                 | -1.7                | -30.5               | 30.2                          | 22.6                           | 7.63                             | 3.955                     |                |
| 1,200.0                                                               | 1,199.8                      | 1,199.4                      | 1,199.2                      | 4.1                           | 4.1                  | 79.58                 | -6.6                | -32.1               | 30.8                          | 22.5                           | 8.29                             | 3.711 ES                  |                |
| 1,300.0                                                               | 1,299.5                      | 1,299.1                      | 1,298.5                      | 4.5                           | 4.5                  | 80.02                 | -14.9               | -34.6               | 31.7                          | 22.7                           | 8.96                             | 3.540                     |                |
| 1,400.0                                                               | 1,398.7                      | 1,398.7                      | 1,397.5                      | 4.8                           | 4.8                  | 80.60                 | -26.5               | -38.2               | 33.0                          | 23.4                           | 9.65                             | 3.425                     |                |
| 1,500.0                                                               | 1,497.5                      | 1,498.4                      | 1,495.9                      | 5.2                           | 5.2                  | 81.28                 | -41.3               | -42.8               | 34.7                          | 24.4                           | 10.36                            | 3.353                     |                |
| 1,600.0                                                               | 1,595.6                      | 1,598.1                      | 1,593.7                      | 5.6                           | 5.6                  | 82.02                 | -59.4               | -48.5               | 36.8                          | 25.7                           | 11.12                            | 3.313                     |                |
| 1,700.0                                                               | 1,693.1                      | 1,697.7                      | 1,690.8                      | 6.0                           | 6.0                  | 82.78                 | -80.7               | -55.1               | 39.3                          | 27.4                           | 11.92                            | 3.298                     |                |
| 1,800.0                                                               | 1,789.6                      | 1,797.4                      | 1,787.1                      | 6.4                           | 6.4                  | 83.55                 | -105.3              | -62.7               | 42.2                          | 29.4                           | 12.78                            | 3.300                     |                |
| 1,900.0                                                               | 1,885.3                      | 1,897.3                      | 1,883.1                      | 6.9                           | 6.9                  | 86.33                 | -131.6              | -70.9               | 45.1                          | 31.4                           | 13.70                            | 3.290                     |                |
| 2,000.0                                                               | 1,979.8                      | 1,997.1                      | 1,979.1                      | 7.4                           | 7.3                  | 92.90                 | -157.9              | -79.1               | 48.2                          | 33.5                           | 14.69                            | 3.279 SF                  |                |
| 2,100.0                                                               | 2,073.2                      | 2,096.6                      | 2,074.8                      | 7.9                           | 7.8                  | 102.33                | -184.1              | -87.2               | 52.4                          | 36.8                           | 15.68                            | 3.344                     |                |
| 2,200.0                                                               | 2,165.2                      | 2,195.8                      | 2,170.1                      | 8.5                           | 8.3                  | 113.22                | -210.2              | -95.3               | 59.2                          | 42.6                           | 16.59                            | 3.570                     |                |
| 2,300.0                                                               | 2,255.8                      | 2,294.5                      | 2,265.0                      | 9.1                           | 8.8                  | 123.97                | -236.2              | -103.4              | 69.6                          | 52.3                           | 17.38                            | 4.007                     |                |
| 2,363.6                                                               | 2,312.7                      | 2,356.9                      | 2,325.0                      | 9.5                           | 9.1                  | 130.16                | -252.7              | -108.5              | 78.4                          | 60.6                           | 17.82                            | 4.401                     |                |
| 2,400.0                                                               | 2,345.0                      | 2,392.6                      | 2,359.3                      | 9.8                           | 9.3                  | 133.38                | -262.1              | -111.4              | 84.1                          | 66.0                           | 18.07                            | 4.655                     |                |
| 2,500.0                                                               | 2,433.9                      | 2,490.6                      | 2,453.5                      | 10.5                          | 9.8                  | 140.28                | -287.9              | -119.5              | 100.7                         | 82.0                           | 18.75                            | 5.370                     |                |
| 2,600.0                                                               | 2,522.8                      | 2,588.6                      | 2,547.7                      | 11.2                          | 10.3                 | 145.20                | -313.7              | -127.5              | 118.3                         | 98.9                           | 19.46                            | 6.080                     |                |
| 2,700.0                                                               | 2,611.7                      | 2,686.6                      | 2,641.9                      | 11.9                          | 10.8                 | 148.84                | -339.5              | -135.5              | 136.6                         | 116.4                          | 20.21                            | 6.761                     |                |
| 2,800.0                                                               | 2,700.6                      | 2,784.6                      | 2,736.1                      | 12.6                          | 11.4                 | 151.61                | -365.3              | -143.5              | 155.3                         | 134.3                          | 20.97                            | 7.405                     |                |
| 2,900.0                                                               | 2,789.5                      | 2,882.6                      | 2,830.3                      | 13.4                          | 11.9                 | 153.79                | -391.1              | -151.5              | 174.2                         | 152.5                          | 21.75                            | 8.010                     |                |
| 3,000.0                                                               | 2,878.4                      | 2,980.6                      | 2,924.5                      | 14.1                          | 12.4                 | 155.54                | -417.0              | -159.6              | 193.4                         | 170.8                          | 22.55                            | 8.576                     |                |
| 3,100.0                                                               | 2,967.2                      | 3,078.6                      | 3,018.6                      | 14.9                          | 13.0                 | 156.97                | -442.8              | -167.6              | 212.7                         | 189.3                          | 23.36                            | 9.105                     |                |
| 3,200.0                                                               | 3,056.1                      | 3,176.6                      | 3,112.8                      | 15.7                          | 13.5                 | 158.16                | -468.6              | -175.6              | 232.1                         | 207.9                          | 24.18                            | 9.600                     |                |
| 3,300.0                                                               | 3,145.0                      | 3,274.6                      | 3,207.0                      | 16.4                          | 14.0                 | 159.17                | -494.4              | -183.6              | 251.6                         | 226.6                          | 25.00                            | 10.061                    |                |
| 3,400.0                                                               | 3,233.9                      | 3,372.6                      | 3,301.2                      | 17.2                          | 14.6                 | 160.04                | -520.2              | -191.6              | 271.1                         | 245.3                          | 25.84                            | 10.493                    |                |
| 3,500.0                                                               | 3,322.8                      | 3,470.6                      | 3,395.4                      | 18.0                          | 15.1                 | 160.79                | -546.0              | -199.7              | 290.7                         | 264.0                          | 26.68                            | 10.898                    |                |
| 3,600.0                                                               | 3,411.7                      | 3,568.6                      | 3,489.6                      | 18.8                          | 15.6                 | 161.44                | -571.8              | -207.7              | 310.3                         | 282.8                          | 27.52                            | 11.277                    |                |
| 3,700.0                                                               | 3,500.5                      | 3,666.6                      | 3,583.8                      | 19.6                          | 16.2                 | 162.02                | -597.6              | -215.7              | 330.0                         | 301.7                          | 28.37                            | 11.634                    |                |
| 3,800.0                                                               | 3,589.4                      | 3,764.6                      | 3,678.0                      | 20.3                          | 16.7                 | 162.53                | -623.4              | -223.7              | 349.7                         | 320.5                          | 29.22                            | 11.969                    |                |
| 3,900.0                                                               | 3,678.3                      | 3,862.6                      | 3,772.2                      | 21.1                          | 17.3                 | 162.99                | -649.3              | -231.7              | 369.4                         | 339.4                          | 30.08                            | 12.284                    |                |
| 4,000.0                                                               | 3,767.2                      | 3,960.6                      | 3,866.4                      | 21.9                          | 17.8                 | 163.40                | -675.1              | -239.8              | 389.2                         | 358.3                          | 30.93                            | 12.581                    |                |
| 4,100.0                                                               | 3,856.1                      | 4,058.6                      | 3,960.6                      | 22.7                          | 18.4                 | 163.77                | -700.9              | -247.8              | 409.0                         | 377.2                          | 31.80                            | 12.862                    |                |
| 4,200.0                                                               | 3,945.0                      | 4,156.5                      | 4,054.8                      | 23.5                          | 18.9                 | 164.11                | -726.7              | -255.8              | 428.7                         | 396.1                          | 32.66                            | 13.128                    |                |
| 4,300.0                                                               | 4,033.9                      | 4,254.5                      | 4,149.0                      | 24.3                          | 19.5                 | 164.41                | -752.5              | -263.8              | 448.5                         | 415.0                          | 33.52                            | 13.379                    |                |
| 4,400.0                                                               | 4,122.7                      | 4,352.5                      | 4,243.2                      | 25.1                          | 20.0                 | 164.70                | -778.3              | -271.8              | 468.3                         | 433.9                          | 34.39                            | 13.618                    |                |
| 4,500.0                                                               | 4,211.6                      | 4,450.5                      | 4,337.4                      | 25.9                          | 20.5                 | 164.95                | -804.1              | -279.9              | 488.1                         | 452.9                          | 35.26                            | 13.844                    |                |
| 4,600.0                                                               | 4,300.5                      | 4,548.5                      | 4,431.5                      | 26.7                          | 21.1                 | 165.19                | -829.9              | -287.9              | 508.0                         | 471.8                          | 36.13                            | 14.059                    |                |
| 4,700.0                                                               | 4,389.4                      | 4,646.5                      | 4,525.7                      | 27.5                          | 21.6                 | 165.41                | -855.8              | -295.9              | 527.8                         | 490.8                          | 37.00                            | 14.263                    |                |
| 4,800.0                                                               | 4,478.3                      | 4,744.5                      | 4,619.9                      | 28.3                          | 22.2                 | 165.62                | -881.6              | -303.9              | 547.6                         | 509.8                          | 37.88                            | 14.458                    |                |
| 4,900.0                                                               | 4,567.2                      | 4,842.5                      | 4,714.1                      | 29.1                          | 22.7                 | 165.81                | -907.4              | -311.9              | 567.5                         | 528.7                          | 38.75                            | 14.643                    |                |
| 5,000.0                                                               | 4,656.0                      | 4,940.5                      | 4,808.3                      | 29.9                          | 23.3                 | 165.98                | -933.2              | -320.0              | 587.3                         | 547.7                          | 39.63                            | 14.820                    |                |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



**PERMIAN****RESOURCES**

## Anticollision Report

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

| <b>Offset Design:</b> FRED PROJECT - FRED STATE COM 423H - OWB - PWP0 |                                  |                                  |                                  |                             |                          |                                  |                               |                         |                                   |                                    |                                      | <b>Offset Site Error:</b> | 0.0 usft       |
|-----------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------|--------------------------|----------------------------------|-------------------------------|-------------------------|-----------------------------------|------------------------------------|--------------------------------------|---------------------------|----------------|
| <b>Survey Program:</b> 0-MWD                                          |                                  |                                  |                                  |                             |                          |                                  |                               |                         |                                   |                                    |                                      | <b>Offset Well Error:</b> | 0.0 usft       |
| <b>Reference</b>                                                      |                                  | <b>Offset</b>                    |                                  | <b>Semi Major Axis</b>      |                          | <b>Highside Toolface<br/>(°)</b> | <b>Offset Wellbore Centre</b> |                         | <b>Distance</b>                   |                                    | <b>Minimum Separation<br/>(usft)</b> | <b>Separation Factor</b>  | <b>Warning</b> |
| <b>Measured Depth<br/>(usft)</b>                                      | <b>Vertical Depth<br/>(usft)</b> | <b>Measured Depth<br/>(usft)</b> | <b>Vertical Depth<br/>(usft)</b> | <b>Reference<br/>(usft)</b> | <b>Offset<br/>(usft)</b> |                                  | <b>+N/-S<br/>(usft)</b>       | <b>+E/-W<br/>(usft)</b> | <b>Between Centres<br/>(usft)</b> | <b>Between Ellipses<br/>(usft)</b> |                                      |                           |                |
| 5,100.0                                                               | 4,744.9                          | 5,038.5                          | 4,902.5                          | 30.7                        | 23.8                     | 166.15                           | -959.0                        | -328.0                  | 607.2                             | 566.7                              | 40.51                                | 14.989                    |                |
| 5,200.0                                                               | 4,833.8                          | 5,136.5                          | 4,996.7                          | 31.5                        | 24.4                     | 166.31                           | -984.8                        | -336.0                  | 627.0                             | 585.7                              | 41.39                                | 15.151                    |                |
| 5,300.0                                                               | 4,922.7                          | 5,234.5                          | 5,090.9                          | 32.3                        | 25.0                     | 166.45                           | -1,010.6                      | -344.0                  | 646.9                             | 604.6                              | 42.27                                | 15.306                    |                |
| 5,400.0                                                               | 5,011.6                          | 5,332.5                          | 5,185.1                          | 33.1                        | 25.5                     | 166.59                           | -1,036.4                      | -352.0                  | 666.8                             | 623.6                              | 43.15                                | 15.454                    |                |
| 5,500.0                                                               | 5,100.5                          | 5,430.5                          | 5,279.3                          | 34.0                        | 26.1                     | 166.72                           | -1,062.3                      | -360.1                  | 686.6                             | 642.6                              | 44.03                                | 15.596                    |                |
| 5,600.0                                                               | 5,189.4                          | 5,528.5                          | 5,373.5                          | 34.8                        | 26.6                     | 166.84                           | -1,088.1                      | -368.1                  | 706.5                             | 661.6                              | 44.91                                | 15.732                    |                |
| 5,700.0                                                               | 5,278.2                          | 5,626.5                          | 5,467.7                          | 35.6                        | 27.2                     | 166.95                           | -1,113.9                      | -376.1                  | 726.4                             | 680.6                              | 45.79                                | 15.863                    |                |
| 5,800.0                                                               | 5,367.1                          | 5,724.5                          | 5,561.9                          | 36.4                        | 27.7                     | 167.06                           | -1,139.7                      | -384.1                  | 746.3                             | 699.6                              | 46.67                                | 15.989                    |                |
| 5,900.0                                                               | 5,456.0                          | 5,822.5                          | 5,656.1                          | 37.2                        | 28.3                     | 167.17                           | -1,165.5                      | -392.1                  | 766.1                             | 718.6                              | 47.56                                | 16.110                    |                |
| 6,000.0                                                               | 5,544.9                          | 5,920.5                          | 5,750.3                          | 38.0                        | 28.8                     | 167.26                           | -1,191.3                      | -400.2                  | 786.0                             | 737.6                              | 48.44                                | 16.226                    |                |
| 6,100.0                                                               | 5,633.8                          | 6,018.4                          | 5,844.4                          | 38.8                        | 29.4                     | 167.36                           | -1,217.1                      | -408.2                  | 805.9                             | 756.6                              | 49.33                                | 16.338                    |                |
| 6,200.0                                                               | 5,722.7                          | 6,116.4                          | 5,938.6                          | 39.6                        | 29.9                     | 167.45                           | -1,242.9                      | -416.2                  | 825.8                             | 775.6                              | 50.21                                | 16.446                    |                |
| 6,300.0                                                               | 5,811.5                          | 6,214.4                          | 6,032.8                          | 40.4                        | 30.5                     | 167.53                           | -1,268.7                      | -424.2                  | 845.7                             | 794.6                              | 51.10                                | 16.550                    |                |
| 6,400.0                                                               | 5,900.4                          | 6,312.4                          | 6,127.0                          | 41.2                        | 31.0                     | 167.61                           | -1,294.6                      | -432.2                  | 865.6                             | 813.6                              | 51.98                                | 16.651                    |                |
| 6,500.0                                                               | 5,989.3                          | 6,410.4                          | 6,221.2                          | 42.1                        | 31.6                     | 167.69                           | -1,320.4                      | -440.3                  | 885.5                             | 832.6                              | 52.87                                | 16.748                    |                |
| 6,600.0                                                               | 6,078.2                          | 6,508.4                          | 6,315.4                          | 42.9                        | 32.2                     | 167.76                           | -1,346.2                      | -448.3                  | 905.4                             | 851.6                              | 53.76                                | 16.841                    |                |
| 6,700.0                                                               | 6,167.1                          | 6,606.4                          | 6,409.6                          | 43.7                        | 32.7                     | 167.83                           | -1,372.0                      | -456.3                  | 925.3                             | 870.6                              | 54.65                                | 16.932                    |                |
| 6,800.0                                                               | 6,256.0                          | 6,704.4                          | 6,503.8                          | 44.5                        | 33.3                     | 167.90                           | -1,397.8                      | -464.3                  | 945.2                             | 889.6                              | 55.53                                | 17.019                    |                |
| 6,900.0                                                               | 6,344.9                          | 6,802.4                          | 6,598.0                          | 45.3                        | 33.8                     | 167.97                           | -1,423.6                      | -472.3                  | 965.0                             | 908.6                              | 56.42                                | 17.104                    |                |
| 7,000.0                                                               | 6,433.7                          | 6,900.4                          | 6,692.2                          | 46.1                        | 34.4                     | 168.03                           | -1,449.4                      | -480.4                  | 984.9                             | 927.6                              | 57.31                                | 17.186                    |                |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

**PERMIAN****RESOURCES**

## Anticollision Report

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

Reference Depths are relative to KB @ 3147.0usft

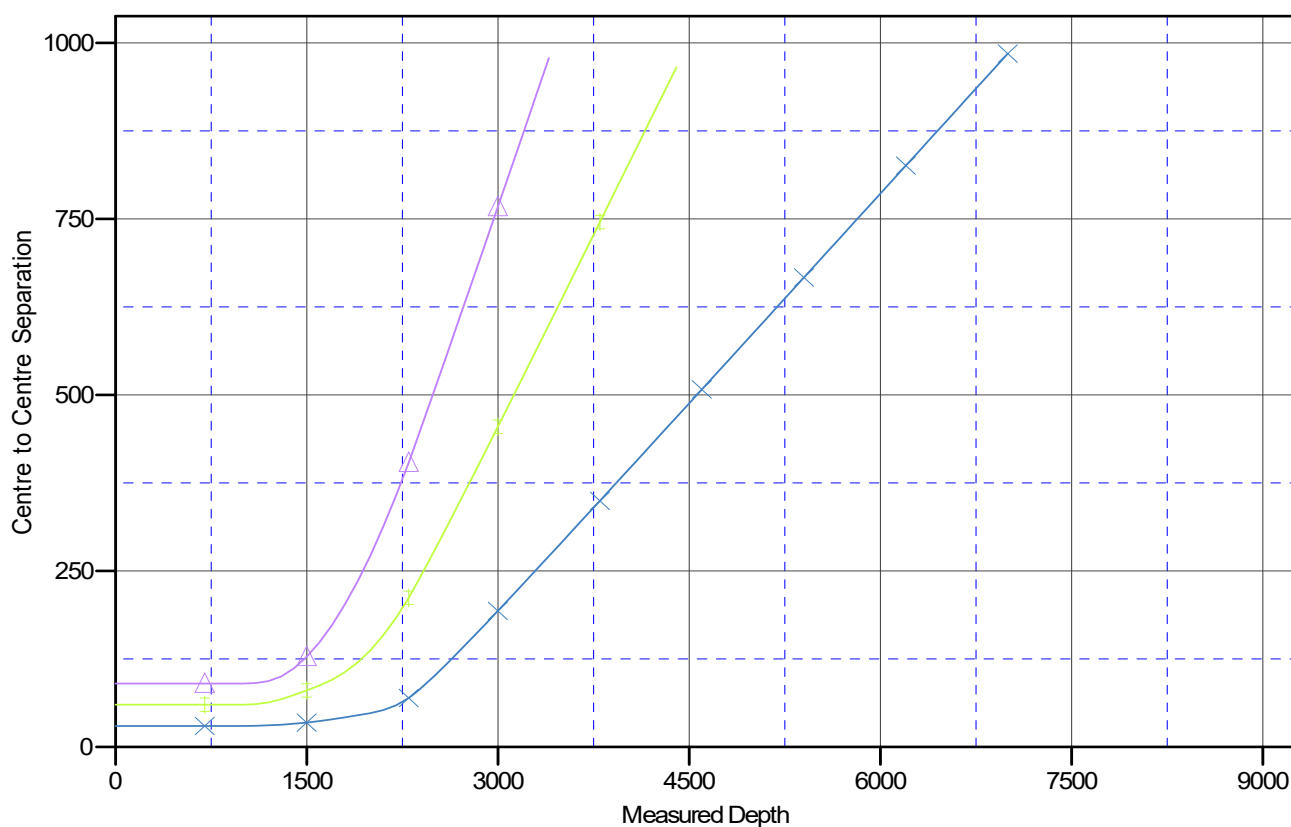
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FRED STATE COM 424H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.07°

**Ladder Plot****LEGEND**

▲ FRED STATECOM421H, OWB/PWP0V0   
 ■ FRED STATECOM422H, OWB/PWP0V0   
 × FRED STATECOM423H, OWB/PWP0V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

**PERMIAN****RESOURCES**

## Anticollision Report

|                           |                     |                                     |                          |
|---------------------------|---------------------|-------------------------------------|--------------------------|
| <b>Company:</b>           | NEW MEXICO          | <b>Local Co-ordinate Reference:</b> | Well FRED STATE COM 424H |
| <b>Project:</b>           | (SP) EDDY           | <b>TVD Reference:</b>               | KB @ 3147.0usft          |
| <b>Reference Site:</b>    | FRED PROJECT        | <b>MD Reference:</b>                | KB @ 3147.0usft          |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                     |
| <b>Reference Well:</b>    | FRED STATE COM 424H | <b>Survey Calculation Method:</b>   | Minimum Curvature        |
| <b>Well Error:</b>        | 0.0 usft            | <b>Output errors are at</b>         | 2.00 sigma               |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Compass_17               |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Offset Datum             |

Reference Depths are relative to KB @ 3147.0usft

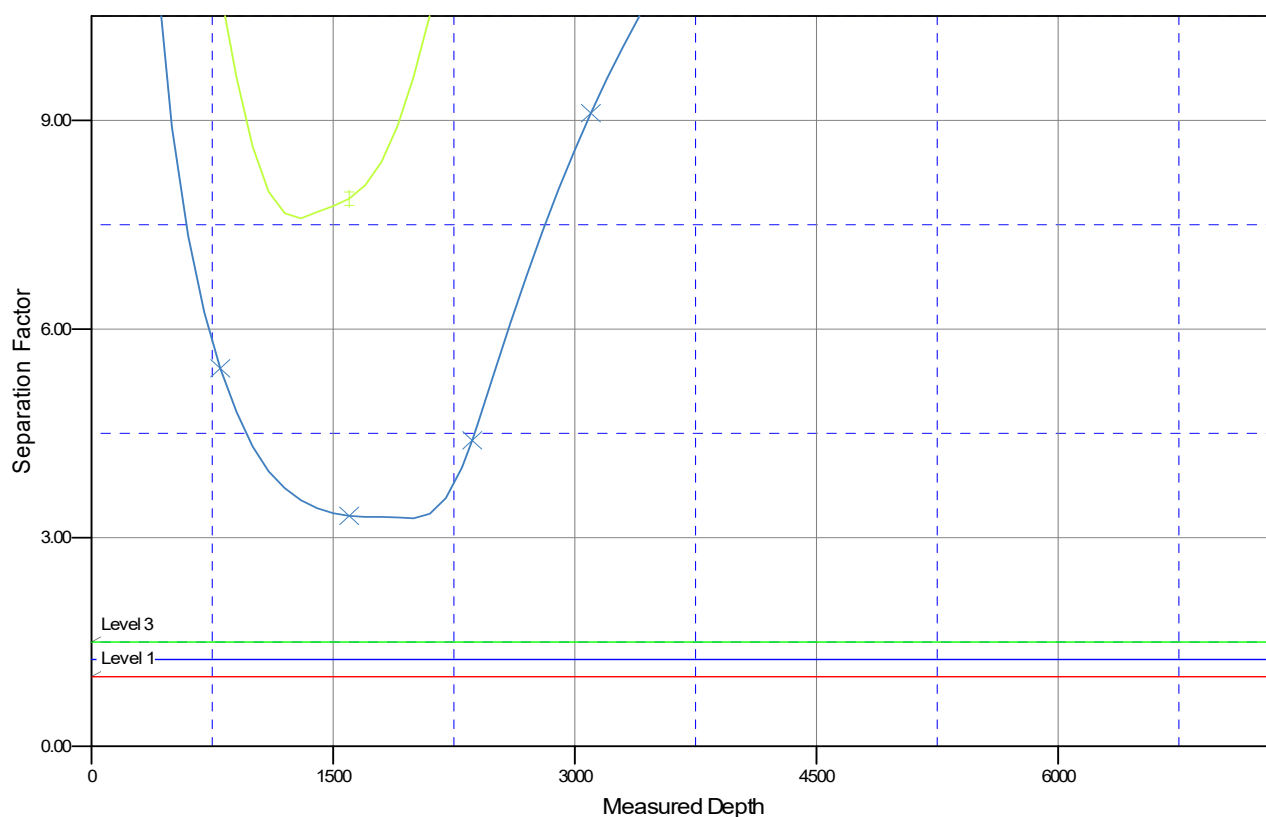
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FRED STATE COM 424H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.07°

**Separation Factor Plot****LEGEND**

x FRED STATECOM421H.OWB/PWP000 + FRED STATECOM422H.OWB/PWP000 x FRED STATECOM423H.OWB/PWP000

|                                                                 |                                                                                                            |                      |                                                       |
|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------------------|
| <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>30-015-55716</b>                                                                                                                      | Pool Code<br><b>74160</b>                                | Pool Name<br><b>Carlsbad, Wolfcamp, East (GAS)</b>                                                                                                     |
| Property Code                                                                                                                                          | Property Name<br><b>FRED STATE COM</b>                   | Well Number<br><b>424H</b>                                                                                                                             |
| OGRID No.<br><b>372165</b>                                                                                                                             | Operator Name<br><b>PERMIAN RESOURCES OPERATING, LLC</b> | Ground Level Elevation<br><b>3,117'</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>E</b> | Section<br><b>33</b> | Township<br><b>21S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>1,712' FNL</b> | Ft. from E/W<br><b>532' FWL</b> | Latitude<br><b>32.438895°</b> | Longitude<br><b>-104.201777°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

## Bottom Hole Location

|                |                      |                        |                     |     |                                 |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>M</b> | Section<br><b>36</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>330' FSL</b> | Ft. from E/W<br><b>100' FWL</b> | Latitude<br><b>32.429567°</b> | Longitude<br><b>-104.254190°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

|                                   |                                          |                                          |                                                                                                               |                                     |
|-----------------------------------|------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Dedicated Acres<br><b>1908.20</b> | Infill or Defining Well<br><b>Infill</b> | Defining Well API<br><b>30-015-55714</b> | Overlapping Spacing Unit (Y/N)<br><b>N</b>                                                                    | Consolidation Code<br><b>C, NSL</b> |
| Order Numbers. <b>TBD</b>         |                                          |                                          | Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |                                     |

## Kick Off Point (KOP)

|                |                      |                        |                     |     |                                   |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>E</b> | Section<br><b>33</b> | Township<br><b>21S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>1,712' FNL</b> | Ft. from E/W<br><b>532' FWL</b> | Latitude<br><b>32.438895°</b> | Longitude<br><b>-104.201777°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|-----------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

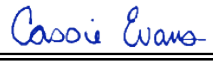
## First Take Point (FTP)

|                |                      |                        |                     |     |                                 |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>P</b> | Section<br><b>32</b> | Township<br><b>21S</b> | Range<br><b>27E</b> | Lot | Ft. from N/S<br><b>330' FSL</b> | Ft. from E/W<br><b>100' FEL</b> | Latitude<br><b>32.430030°</b> | Longitude<br><b>-104.203784°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

## Last Take Point (LTP)

|                |                      |                        |                     |     |                                 |                                 |                               |                                  |                       |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|
| UL<br><b>M</b> | Section<br><b>36</b> | Township<br><b>21S</b> | Range<br><b>26E</b> | Lot | Ft. from N/S<br><b>330' FSL</b> | Ft. from E/W<br><b>100' FWL</b> | Latitude<br><b>32.429567°</b> | Longitude<br><b>-104.254190°</b> | County<br><b>EDDY</b> |
|----------------|----------------------|------------------------|---------------------|-----|---------------------------------|---------------------------------|-------------------------------|----------------------------------|-----------------------|

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

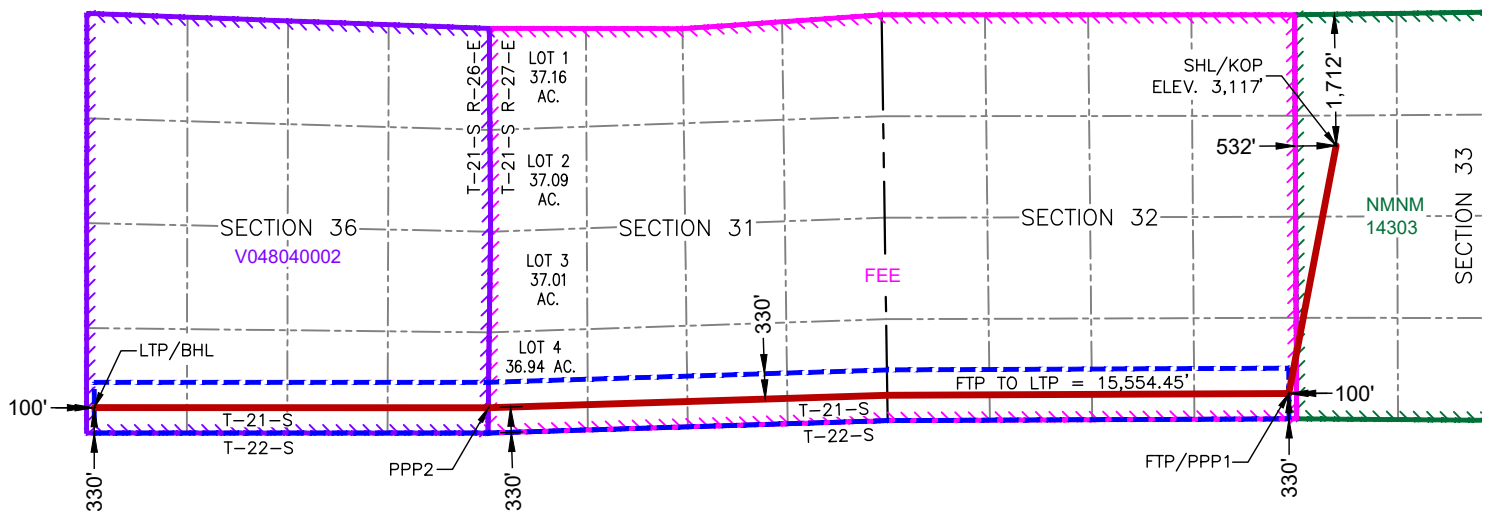
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                                                                   |                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <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. |  | <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: 4/2/2025 |                                   |
| Signature<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  | Signature and Seal of Professional Surveyor                                                                                                                                                                                                                                                                                                                       |                                   |
| Printed Name<br><b>Cassie Evans</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | Certificate Number<br><b>12177</b>                                                                                                                                                                                                                                                                                                                                | Date of Survey<br><b>4/2/2025</b> |
| Email Address <b>Cassie.Evans@permianres.com</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.

**FRED STATE COM 424H**

**SURFACE HOLE LOCATION  
& KICK-OFF POINT  
1,712' FNL & 532' FWL  
ELEV. = 3,117'**

NAD 83 X = 581,923.09'  
NAD 83 Y = 523,426.07'  
NAD 83 LAT = 32.438895°  
NAD 83 LONG = -104.201777°  
NAD 27 X = 540,741.96'  
NAD 27 Y = 523,365.97'  
NAD 27 LAT = 32.438777°  
NAD 27 LONG = -104.201273°

**FIRST TAKE POINT &  
PENETRATION POINT 1  
330' FSL & 100' FEL**

NAD 83 X = 581,307.72'  
NAD 83 Y = 520,200.42'  
NAD 83 LAT = 32.430030°  
NAD 83 LONG = -104.203784°  
NAD 27 X = 540,126.53'  
NAD 27 Y = 520,140.40'  
NAD 27 LAT = 32.429912°  
NAD 27 LONG = -104.203280°

**PENETRATION POINT 2  
330' FSL & 0' FWL**

NAD 83 X = 570,885.08'  
NAD 83 Y = 520,015.68'  
NAD 83 LAT = 32.429553°  
NAD 83 LONG = -104.237566°  
NAD 27 X = 529,703.99'  
NAD 27 Y = 519,955.78'  
NAD 27 LAT = 32.429435°  
NAD 27 LONG = -104.237061°

**LAST TAKE POINT &  
BOTTOM HOLE LOCATION  
330' FSL & 100' FWL**

NAD 83 X = 565,755.82'  
NAD 83 Y = 520,016.61'  
NAD 83 LAT = 32.429567°  
NAD 83 LONG = -104.254190°  
NAD 27 X = 524,574.79'  
NAD 27 Y = 519,956.77'  
NAD 27 LAT = 32.429449°  
NAD 27 LONG = -104.253685°

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

CONDITIONS

Action 448581

CONDITIONS

|                                                                                                     |                                                      |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>372165                                     |
|                                                                                                     | Action Number:<br>448581                             |
|                                                                                                     | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By  | Condition                                                              | Condition Date |
|-------------|------------------------------------------------------------------------|----------------|
| ward.rikala | Any previous COA's not addressed within the updated COA's still apply. | 4/23/2025      |