

**District I**

1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101  
August 1, 2011

Permit 344370

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

|                                                                                              |                               |                               |
|----------------------------------------------------------------------------------------------|-------------------------------|-------------------------------|
| 1. Operator Name and Address<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 |                               | 2. OGRID Number<br>229137     |
|                                                                                              |                               | 3. API Number<br>30-015-53970 |
| 4. Property Code<br>308205                                                                   | 5. Property Name<br>MAN STATE | 6. Well No.<br>502H           |

**7. Surface Location**

|               |               |                 |              |         |                   |               |                  |               |                |
|---------------|---------------|-----------------|--------------|---------|-------------------|---------------|------------------|---------------|----------------|
| UL - Lot<br>L | Section<br>32 | Township<br>18S | Range<br>28E | Lot Idn | Feet From<br>2310 | N/S Line<br>S | Feet From<br>390 | E/W Line<br>W | County<br>Eddy |
|---------------|---------------|-----------------|--------------|---------|-------------------|---------------|------------------|---------------|----------------|

**8. Proposed Bottom Hole Location**

|               |               |                 |              |              |                   |               |                 |               |                |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|-----------------|---------------|----------------|
| UL - Lot<br>I | Section<br>32 | Township<br>18S | Range<br>28E | Lot Idn<br>I | Feet From<br>2460 | N/S Line<br>S | Feet From<br>50 | E/W Line<br>E | County<br>Eddy |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|-----------------|---------------|----------------|

**9. Pool Information**

|                       |       |
|-----------------------|-------|
| TRAVIS; BONESPRING(O) | 97257 |
|-----------------------|-------|

**Additional Well Information**

|                           |                             |                                        |                         |                                    |
|---------------------------|-----------------------------|----------------------------------------|-------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>OIL        | 13. Cable/Rotary                       | 14. Lease Type<br>State | 15. Ground Level Elevation<br>3550 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>12890 | 18. Formation<br>3rd Bone Spring Sand  | 19. Contractor          | 20. Spud Date<br>1/1/2024          |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                         | Distance to nearest surface water  |

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

**21. Proposed Casing and Cement Program**

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 14.75     | 10.75       | 45.5             | 500           | 500             | 0             |
| Int1 | 9.875     | 7.625       | 29.7             | 7480          | 800             | 0             |
| Prod | 6.75      | 5.5         | 20               | 12890         | 1000            | 0             |

**Casing/Cement Program: Additional Comments**

|                          |
|--------------------------|
| See attached drill plan. |
|--------------------------|

**22. Proposed Blowout Prevention Program**

| Type       | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Double Ram | 5000             | 5000          | Cameron      |

|                                                                                                                                                                                                                                                                                                    |                                  |                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. | <b>OIL CONSERVATION DIVISION</b> |                                 |
| Signature:                                                                                                                                                                                                                                                                                         |                                  |                                 |
| Printed Name: Electronically filed by Robyn Russell                                                                                                                                                                                                                                                | Approved By: Ward Rikala         |                                 |
| Title: Supervisor Delaware Regulatory                                                                                                                                                                                                                                                              | Title:                           |                                 |
| Email Address: robyn.m.russell@conocophillips.com                                                                                                                                                                                                                                                  | Approved Date: 7/12/2023         | Expiration Date: 7/12/2025      |
| Date: 7/6/2023                                                                                                                                                                                                                                                                                     | Phone: 432-685-4385              | Conditions of Approval Attached |

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                 |                                                        |                                               |
|-------------------------------------------------|--------------------------------------------------------|-----------------------------------------------|
| <sup>1</sup> API Number<br>30-015- <b>53970</b> | <sup>2</sup> Pool Code<br>97257                        | <sup>3</sup> Pool Name<br>Travis; Bone Spring |
| <sup>4</sup> Property Code<br><b>308205</b>     | <sup>5</sup> Property Name<br><b>MAN STATE</b>         | <sup>6</sup> Well Number<br><b>502H</b>       |
| <sup>7</sup> OGRID No.<br>229137                | <sup>8</sup> Operator Name<br><b>COG OPERATING LLC</b> | <sup>9</sup> Elevation<br><b>3,550'</b>       |

<sup>10</sup> Surface Location

| UL or lot no. | Section   | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>L</b>      | <b>32</b> | <b>18-S</b> | <b>28-E</b> |         | <b>2,310'</b> | <b>SOUTH</b>     | <b>390'</b>   | <b>WEST</b>    | <b>EDDY</b> |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section   | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>I</b>      | <b>32</b> | <b>18-S</b> | <b>28-E</b> |         | <b>2,460'</b> | <b>SOUTH</b>     | <b>50'</b>    | <b>EAST</b>    | <b>EDDY</b> |

|                                      |                               |                                  |                         |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>320 | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|--------------------------------------|-------------------------------|----------------------------------|-------------------------|

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.

<sup>16</sup>

**SURFACE HOLE LOCATION / KICK OFF POINT**  
2,310' FSL & 390' FWL  
NEW MEXICO EAST-NAD 83  
NORTH: 619,494.37'  
EAST: 580,861.96'  
LAT: 32.70296618  
LONG: -104.20484019

**FIRST TAKE POINT / PENETRATION POINT 1**  
2,460' FSL & 100' FWL  
NEW MEXICO EAST-NAD 83  
NORTH: 619,640.42'  
EAST: 580,571.05'  
LAT: 32.70336860  
LONG: -104.20578539

**LAST TAKE POINT**  
2,460' FSL & 100' FEL  
NEW MEXICO EAST-NAD 83  
NORTH: 619,706.93'  
EAST: 585,558.54'  
LAT: 32.70353387  
LONG: -104.18957083

**BOTTOM HOLE LOCATION**  
2,460' FSL & 50' FEL  
NEW MEXICO EAST-NAD 83  
NORTH: 619,707.58'  
EAST: 585,608.54'  
LAT: 32.70353547  
LONG: -104.18940828

**CORNER COORDINATES NEW MEXICO EAST - NAD 83**  
A- FOUND IRON PIPE  
N: 622,455.76' E: 580,453.44'  
B- CALCULATED CORNER  
N: 622,490.18' E: 583,050.50'  
C- FOUND IRON PIPE  
N: 622,524.60' E: 585,647.56'  
D- FOUND IRON PIPE  
N: 619,887.97' E: 585,657.81'  
E- FOUND IRON PIPE  
N: 617,248.15' E: 585,668.52'  
F- FOUND IRON PIPE  
N: 617,214.32' E: 583,077.67'  
G- FOUND IRON PIPE  
N: 617,179.04' E: 580,486.43'  
H- CALCULATED CORNER  
N: 619,817.40' E: 580,469.94'

**<sup>17</sup> OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Stan Wagner* 7-6-23  
Signature Date

Stan Wagner  
Printed Name Date

Email Address Date

**<sup>18</sup> SURVEYOR CERTIFICATION**

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.

Date: 6/27/23

MARK J. MURRAY P.L.S. NO. 12177

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

Form APD Conditions

Permit 344370

**PERMIT CONDITIONS OF APPROVAL**

|                                                                                                     |                             |
|-----------------------------------------------------------------------------------------------------|-----------------------------|
| Operator Name and Address:<br>COG OPERATING LLC [229137]<br>600 W Illinois Ave<br>Midland, TX 79701 | API Number:<br>30-015-53970 |
|                                                                                                     | Well:<br>MAN STATE #502H    |

| OCD<br>Reviewer | Condition                                                                                                                                                                                                                                                            |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ward.rikala     | Notify OCD 24 hours prior to casing & cement                                                                                                                                                                                                                         |
| ward.rikala     | Will require a File As Drilled C-102 and a Directional Survey with the C-104                                                                                                                                                                                         |
| ward.rikala     | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string |
| ward.rikala     | Cement is required to circulate on both surface and intermediate1 strings of casing                                                                                                                                                                                  |
| ward.rikala     | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system                  |
| ward.rikala     | The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud                                                                                                                                                                   |

**COG OPERATING LLC**  
**HYDROGEN SULFIDE DRILLING OPERATIONS PLAN**

**1. HYDROGEN SULFIDE TRAINING**

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H<sub>2</sub>S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

**2. H<sub>2</sub>S SAFETY EQUIPMENT AND SYSTEMS**

Note: All H<sub>2</sub>S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H<sub>2</sub>S. If H<sub>2</sub>S greater than 100 ppm is encountered in the gas stream we will shut in and install H<sub>2</sub>S equipment.

- a. Well Control Equipment:
  - Flare line.
  - Choke manifold with remotely operated choke.
  - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
  - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:  
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:  
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:  
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:  
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:  
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:  
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

# **W A R N I N G**

**YOU ARE ENTERING AN H<sub>2</sub>S AREA  
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

**COG OPERATING LLC**

**1-575-748-6940**

## **EMERGENCY CALL LIST**

|                          | <b><u>OFFICE</u></b> | <b><u>MOBILE</u></b> |
|--------------------------|----------------------|----------------------|
| COG OPERATING LLC OFFICE | 575-748-6940         |                      |
| Dallas Daley             | 432-818-2329         | 432-631-6977         |

## **EMERGENCY RESPONSE NUMBERS**

|                                                  | <b><u>OFFICE</u></b> |
|--------------------------------------------------|----------------------|
| STATE POLICE                                     | 575-748-9718         |
| EDDY COUNTY SHERIFF                              | 575-746-2701         |
| EMERGENCY MEDICAL SERVICES (AMBULANCE)           | 911 or 575-746-2701  |
| EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS) | 575-887-9511         |
| STATE EMERGENCY RESPONSE CENTER (SERC)           | 575-476-9620         |
| CARLSBAD POLICE DEPARTMENT                       | 575-885-2111         |
| CARLSBAD FIRE DEPARTMENT                         | 575-885-3125         |
| NEW MEXICO OIL CONSERVATION DIVISION             | 575-748-1283         |
| INDIAN FIRE & SAFETY                             | 800-530-8693         |
| HALLIBURTON SERVICES                             | 800-844-8451         |

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

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

## NATURAL GAS MANAGEMENT PLAN

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

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** COG Operating LLC

**OGRID:** 229137

**Date:** 07/06/2023

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

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

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

| Well Name      | API     | ULSTR        | Footages           | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|----------------|---------|--------------|--------------------|-----------------------|-----------------------|----------------------------------|
| Man State 501H | 30-015- | P-32-18S-28E | 530 FSL & 405 FEL  | ± 200                 | ± 515                 | ± 1045                           |
| Man State 502H | 30-015- | L-32-18S-28E | 2310 FSL & 390 FWL | ± 200                 | ± 515                 | ± 1045                           |

**IV. Central Delivery Point Name:** CTB NWSW 32-18S-28E [See 19.15.27.9(D)(1) NMAC]

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

| Well Name               | API     | Spud Date  | TD Reached Date     | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|-------------------------|---------|------------|---------------------|------------------------------|------------------------|-----------------------|
| Man State<br>501H, 502H | Pending | ± 8/1/2024 | ± 25 days from spud | TBD                          | TBD                    | TBD                   |

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

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

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

## **Section 2 – Enhanced Plan**

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

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

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

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

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

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

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

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

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

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

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

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

### **Section 3 - Certifications**

**Effective May 25, 2021**

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

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

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

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

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

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

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

### **Section 4 - Notices**

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

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

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

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

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

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| Signature:                                                                                       |
| Printed Name: Stan Wagner                                                                        |
| Title: Regulatory Advisor                                                                        |
| E-mail Address: stan.s.wagner@conocophillips.com                                                 |
| Date: 06/05/2023                                                                                 |
| Phone: 432-253-9685                                                                              |
| <b>OIL CONSERVATION DIVISION</b><br><b>(Only applicable when submitted as a standalone form)</b> |
| Approved By:                                                                                     |
| Title:                                                                                           |
| Approval Date:                                                                                   |
| Conditions of Approval:                                                                          |

## Man State 502H

### Casing and Cement

| <u>String</u> | <u>Hole Size</u> | <u>Csg OD</u> | <u>PPF</u> | <u>Depth</u> | <u>Sx Cement</u> | <u>TOC</u> |
|---------------|------------------|---------------|------------|--------------|------------------|------------|
| Surface       | 14-3/4"          | 10-3/4"       | 45.5#      | 500'         | 500              | 0'         |
| Intermediate  | 9-7/8" x 8-3/4"  | 7-5/8"        | 29.7#      | 7480'        | 800              | 0'         |
| Production    | 6-3/4"           | 5-1/2"        | 20#        | 12890'       | 1000             | 0'         |

### Well Plan

Drill 14-3/4" hole to ~500' w/ brine. Run 10-3/4" 45.5# J55 BTC casing to TD and cement to surface in one stage.

Drill 9-7/8" x 8-3/4" hole to ~7,480' with cut brine. Run 7-5/8 29.7# P110 BTC x 7-5/8 29.7# P110 W513 to TD and cement to surface in one stage.

Drill 6-3/4" vertical, curve and lateral to ~12,890' with OBM. Run 5.5" 20# P110 TXP-BTC x 5.5" 20# P110 W441 casing from TD to surface and cement to surface in one stage.

### Well Control

After setting 10-3/4" casing and installing 5000 psi casing head, NU 13-5/8" Cameron BOP. Test casing to 1500 psi, annular to 2500psi and other BOP equipment to 5000 psi.

| <u>Type</u> | <u>Working Pressure</u> | <u>Test Pressure</u> | <u>Manufacture</u> |
|-------------|-------------------------|----------------------|--------------------|
| Double Ram  | 5000 psi                | 5000 psi             | Cameron            |

Intent ☐ As Drilled ☐

|                |                |             |
|----------------|----------------|-------------|
| API #          |                |             |
| Operator Name: | Property Name: | Well Number |

## Kick Off Point (KOP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

## First Take Point (FTP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

## Last Take Point (LTP)

|          |         |          |       |     |           |          |      |          |        |
|----------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| UL       | Section | Township | Range | Lot | Feet      | From N/S | Feet | From E/W | County |
| Latitude |         |          |       |     | Longitude |          |      |          | NAD    |

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

|                |                |             |
|----------------|----------------|-------------|
| API #          |                |             |
| Operator Name: | Property Name: | Well Number |

KZ 06/29/2018

# **DELAWARE BASIN WEST**

**EDDY COUNTY (DBW)**

**MAN STATE PROJECT**

**\*MAN STATE #502H**

**OWB**

**Plan: PWP0**

## **Standard Planning Report**

**05 July, 2023**

ConocoPhillips  
Planning Report

|           |                       |                              |                                        |
|-----------|-----------------------|------------------------------|----------------------------------------|
| Database: | Central Planning Prod | Local Co-ordinate Reference: | Well *MAN STATE #502H                  |
| Company:  | DELAWARE BASIN WEST   | TVD Reference:               | WELL @ 3553.0usft (Original Well Elev) |
| Project:  | EDDY COUNTY (DBW)     | MD Reference:                | WELL @ 3553.0usft (Original Well Elev) |
| Site:     | MAN STATE PROJECT     | North Reference:             | Grid                                   |
| Well:     | *MAN STATE #502H      | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | OWB                   |                              |                                        |
| Design:   | PWP0                  |                              |                                        |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | EDDY COUNTY (DBW)                    |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico East 3001                 |               |                |

| Site                  |          | MAN STATE PROJECT |                 |            |                   |
|-----------------------|----------|-------------------|-----------------|------------|-------------------|
| Site Position:        |          | Northing:         | 617,710.53 usft | Latitude:  | 32° 41' 53.169 N  |
| From:                 | Map      | Easting:          | 544,081.87 usft | Longitude: | 104° 11' 24.126 W |
| Position Uncertainty: | 0.0 usft | Slot Radius:      | 13-3/16 "       |            |                   |

|                      |                  |          |                     |                 |               |                   |
|----------------------|------------------|----------|---------------------|-----------------|---------------|-------------------|
| Well                 | *MAN STATE #502H |          |                     |                 |               |                   |
| Well Position        | +N/-S            | 0.0 usft | Northing:           | 619,432.01 usft | Latitude:     | 32° 42' 10.260 N  |
|                      | +E/-W            | 0.0 usft | Easting:            | 539,682.47 usft | Longitude:    | 104° 12' 15.586 W |
| Position Uncertainty |                  | 3.0 usft | Wellhead Elevation: | usft            | Ground Level: | 3,553.0 usft      |
| Grid Convergence:    |                  | 0.07 °   |                     |                 |               |                   |

|           |            |             |                 |               |                     |
|-----------|------------|-------------|-----------------|---------------|---------------------|
| Wellbore  | OWB        |             |                 |               |                     |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
|           | IGRF200510 | 12/31/2009  | 8.08            | 60.57         | 49,009.65572228     |

|                   |                         |              |              |               |     |
|-------------------|-------------------------|--------------|--------------|---------------|-----|
| Design            | PWP0                    |              |              |               |     |
| Audit Notes:      |                         |              |              |               |     |
| Version:          |                         | Phase:       | PLAN         | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |     |
|                   | 0.0                     | 0.0          | 0.0          | 87.43         |     |

|                          |                 |                     |                       |         |  |
|--------------------------|-----------------|---------------------|-----------------------|---------|--|
| Plan Survey Tool Program | Date            | 7/5/2023            |                       |         |  |
| Depth From (usft)        | Depth To (usft) | Survey (Wellbore)   | Tool Name             | Remarks |  |
| 1                        | 0.0             | 12,890.0 PWP0 (OWB) | r.5 MWD+IFR1          |         |  |
|                          |                 |                     | OWSG MWD + IFR1 rev.5 |         |  |

|                       |                 |             |                       |              |              |                         |                        |                       |         |                   |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-------------------|
| 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    |                   |
| 1,500.0               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 1,882.1               | 7.64            | 296.66      | 1,881.0               | 11.4         | -22.7        | 2.00                    | 2.00                   | 0.00                  | 296.66  |                   |
| 3,755.8               | 7.64            | 296.66      | 3,738.0               | 123.2        | -245.4       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 4,520.0               | 0.00            | 0.00        | 4,500.0               | 146.0        | -290.9       | 1.00                    | -1.00                  | 0.00                  | 180.00  |                   |
| 7,579.5               | 0.00            | 0.00        | 7,559.5               | 146.0        | -290.9       | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 8,329.5               | 90.00           | 89.24       | 8,037.0               | 152.4        | 186.5        | 12.00                   | 12.00                  | 11.90                 | 89.24   |                   |
| 12,890.0              | 90.00           | 89.24       | 8,037.0               | 213.2        | 4,746.6      | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL (MAN STATE # |

## ConocoPhillips

## Planning Report

|                  |                       |                                     |                                        |
|------------------|-----------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Central Planning Prod | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Company:</b>  | DELAWARE BASIN WEST   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Project:</b>  | EDDY COUNTY (DBW)     | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site:</b>     | MAN STATE PROJECT     | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | *MAN STATE #502H      | <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) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                 | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                 | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                 | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                 | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                 | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                 | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                 | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                 | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 900.0                 | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0               | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0               | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0               | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0               | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,400.0               | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,600.0               | 2.00            | 296.66      | 1,600.0               | 0.8          | -1.6         | -1.5                    | 2.00                    | 2.00                   | 0.00                  |
| 1,700.0               | 4.00            | 296.66      | 1,699.8               | 3.1          | -6.2         | -6.1                    | 2.00                    | 2.00                   | 0.00                  |
| 1,800.0               | 6.00            | 296.66      | 1,799.5               | 7.0          | -14.0        | -13.7                   | 2.00                    | 2.00                   | 0.00                  |
| 1,882.1               | 7.64            | 296.66      | 1,881.0               | 11.4         | -22.7        | -22.2                   | 2.00                    | 2.00                   | 0.00                  |
| 1,900.0               | 7.64            | 296.66      | 1,898.7               | 12.5         | -24.9        | -24.3                   | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0               | 7.64            | 296.66      | 1,997.8               | 18.5         | -36.8        | -35.9                   | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0               | 7.64            | 296.66      | 2,096.9               | 24.4         | -48.6        | -47.5                   | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0               | 7.64            | 296.66      | 2,196.0               | 30.4         | -60.5        | -59.1                   | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0               | 7.64            | 296.66      | 2,295.2               | 36.4         | -72.4        | -70.7                   | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0               | 7.64            | 296.66      | 2,394.3               | 42.3         | -84.3        | -82.3                   | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0               | 7.64            | 296.66      | 2,493.4               | 48.3         | -96.2        | -93.9                   | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0               | 7.64            | 296.66      | 2,592.5               | 54.3         | -108.1       | -105.5                  | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0               | 7.64            | 296.66      | 2,691.6               | 60.2         | -120.0       | -117.1                  | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0               | 7.64            | 296.66      | 2,790.7               | 66.2         | -131.8       | -128.7                  | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0               | 7.64            | 296.66      | 2,889.8               | 72.2         | -143.7       | -140.3                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0               | 7.64            | 296.66      | 2,988.9               | 78.1         | -155.6       | -151.9                  | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0               | 7.64            | 296.66      | 3,088.0               | 84.1         | -167.5       | -163.6                  | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0               | 7.64            | 296.66      | 3,187.2               | 90.1         | -179.4       | -175.2                  | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0               | 7.64            | 296.66      | 3,286.3               | 96.0         | -191.3       | -186.8                  | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0               | 7.64            | 296.66      | 3,385.4               | 102.0        | -203.1       | -198.4                  | 0.00                    | 0.00                   | 0.00                  |
| 3,500.0               | 7.64            | 296.66      | 3,484.5               | 108.0        | -215.0       | -210.0                  | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0               | 7.64            | 296.66      | 3,583.6               | 113.9        | -226.9       | -221.6                  | 0.00                    | 0.00                   | 0.00                  |
| 3,700.0               | 7.64            | 296.66      | 3,682.7               | 119.9        | -238.8       | -233.2                  | 0.00                    | 0.00                   | 0.00                  |
| 3,755.8               | 7.64            | 296.66      | 3,738.0               | 123.2        | -245.4       | -239.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0               | 7.20            | 296.66      | 3,781.9               | 125.8        | -250.5       | -244.6                  | 1.00                    | -1.00                  | 0.00                  |
| 3,900.0               | 6.20            | 296.66      | 3,881.2               | 131.0        | -261.0       | -254.8                  | 1.00                    | -1.00                  | 0.00                  |
| 4,000.0               | 5.20            | 296.66      | 3,980.7               | 135.5        | -269.8       | -263.5                  | 1.00                    | -1.00                  | 0.00                  |
| 4,100.0               | 4.20            | 296.66      | 4,080.3               | 139.1        | -277.2       | -270.6                  | 1.00                    | -1.00                  | 0.00                  |
| 4,200.0               | 3.20            | 296.66      | 4,180.1               | 142.0        | -282.9       | -276.3                  | 1.00                    | -1.00                  | 0.00                  |
| 4,300.0               | 2.20            | 296.66      | 4,280.0               | 144.2        | -287.1       | -280.4                  | 1.00                    | -1.00                  | 0.00                  |
| 4,400.0               | 1.20            | 296.66      | 4,380.0               | 145.5        | -289.8       | -283.0                  | 1.00                    | -1.00                  | 0.00                  |
| 4,500.0               | 0.20            | 296.66      | 4,480.0               | 146.0        | -290.9       | -284.0                  | 1.00                    | -1.00                  | 0.00                  |
| 4,520.0               | 0.00            | 0.00        | 4,500.0               | 146.0        | -290.9       | -284.1                  | 1.00                    | -1.00                  | 0.00                  |
| 4,600.0               | 0.00            | 0.00        | 4,580.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0               | 0.00            | 0.00        | 4,680.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0               | 0.00            | 0.00        | 4,780.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 4,900.0               | 0.00            | 0.00        | 4,880.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0               | 0.00            | 0.00        | 4,980.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |

## ConocoPhillips

## Planning Report

|                  |                       |                                     |                                        |
|------------------|-----------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Central Planning Prod | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Company:</b>  | DELAWARE BASIN WEST   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Project:</b>  | EDDY COUNTY (DBW)     | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site:</b>     | MAN STATE PROJECT     | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | *MAN STATE #502H      | <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) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 5,100.0               | 0.00            | 0.00        | 5,080.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0               | 0.00            | 0.00        | 5,180.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0               | 0.00            | 0.00        | 5,280.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0               | 0.00            | 0.00        | 5,380.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0               | 0.00            | 0.00        | 5,480.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0               | 0.00            | 0.00        | 5,580.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0               | 0.00            | 0.00        | 5,680.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0               | 0.00            | 0.00        | 5,780.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0               | 0.00            | 0.00        | 5,880.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0               | 0.00            | 0.00        | 5,980.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0               | 0.00            | 0.00        | 6,080.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0               | 0.00            | 0.00        | 6,180.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0               | 0.00            | 0.00        | 6,280.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0               | 0.00            | 0.00        | 6,380.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0               | 0.00            | 0.00        | 6,480.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0               | 0.00            | 0.00        | 6,580.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0               | 0.00            | 0.00        | 6,680.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0               | 0.00            | 0.00        | 6,780.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0               | 0.00            | 0.00        | 6,880.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0               | 0.00            | 0.00        | 6,980.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0               | 0.00            | 0.00        | 7,080.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0               | 0.00            | 0.00        | 7,180.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0               | 0.00            | 0.00        | 7,280.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0               | 0.00            | 0.00        | 7,380.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0               | 0.00            | 0.00        | 7,480.0               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,579.5               | 0.00            | 0.00        | 7,559.5               | 146.0        | -290.9       | -284.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,600.0               | 2.46            | 89.24       | 7,580.0               | 146.1        | -290.5       | -283.6                  | 12.00                   | 12.00                  | 0.00                  |
| 7,625.0               | 5.46            | 89.24       | 7,604.9               | 146.1        | -288.8       | -281.9                  | 12.00                   | 12.00                  | 0.00                  |
| 7,650.0               | 8.46            | 89.24       | 7,629.7               | 146.1        | -285.7       | -278.9                  | 12.00                   | 12.00                  | 0.00                  |
| 7,675.0               | 11.46           | 89.24       | 7,654.3               | 146.2        | -281.4       | -274.6                  | 12.00                   | 12.00                  | 0.00                  |
| 7,700.0               | 14.46           | 89.24       | 7,678.7               | 146.3        | -275.8       | -269.0                  | 12.00                   | 12.00                  | 0.00                  |
| 7,725.0               | 17.46           | 89.24       | 7,702.7               | 146.3        | -268.9       | -262.1                  | 12.00                   | 12.00                  | 0.00                  |
| 7,750.0               | 20.46           | 89.24       | 7,726.4               | 146.5        | -260.8       | -254.0                  | 12.00                   | 12.00                  | 0.00                  |
| 7,775.0               | 23.46           | 89.24       | 7,749.5               | 146.6        | -251.5       | -244.6                  | 12.00                   | 12.00                  | 0.00                  |
| 7,800.0               | 26.46           | 89.24       | 7,772.2               | 146.7        | -240.9       | -234.1                  | 12.00                   | 12.00                  | 0.00                  |
| 7,825.0               | 29.46           | 89.24       | 7,794.3               | 146.9        | -229.2       | -222.4                  | 12.00                   | 12.00                  | 0.00                  |
| 7,850.0               | 32.46           | 89.24       | 7,815.7               | 147.0        | -216.4       | -209.5                  | 12.00                   | 12.00                  | 0.00                  |
| 7,875.0               | 35.46           | 89.24       | 7,836.5               | 147.2        | -202.4       | -195.6                  | 12.00                   | 12.00                  | 0.00                  |
| 7,900.0               | 38.46           | 89.24       | 7,856.4               | 147.4        | -187.4       | -180.6                  | 12.00                   | 12.00                  | 0.00                  |
| 7,925.0               | 41.46           | 89.24       | 7,875.6               | 147.6        | -171.3       | -164.5                  | 12.00                   | 12.00                  | 0.00                  |
| 7,950.0               | 44.46           | 89.24       | 7,893.9               | 147.9        | -154.3       | -147.5                  | 12.00                   | 12.00                  | 0.00                  |
| 7,975.0               | 47.46           | 89.24       | 7,911.3               | 148.1        | -136.3       | -129.5                  | 12.00                   | 12.00                  | 0.00                  |
| 8,000.0               | 50.46           | 89.24       | 7,927.7               | 148.4        | -117.5       | -110.7                  | 12.00                   | 12.00                  | 0.00                  |
| 8,025.0               | 53.46           | 89.24       | 7,943.1               | 148.6        | -97.8        | -91.0                   | 12.00                   | 12.00                  | 0.00                  |
| 8,050.0               | 56.46           | 89.24       | 7,957.4               | 148.9        | -77.3        | -70.6                   | 12.00                   | 12.00                  | 0.00                  |
| 8,075.0               | 59.46           | 89.24       | 7,970.7               | 149.2        | -56.1        | -49.4                   | 12.00                   | 12.00                  | 0.00                  |
| 8,100.0               | 62.46           | 89.24       | 7,982.8               | 149.5        | -34.3        | -27.5                   | 12.00                   | 12.00                  | 0.00                  |
| 8,125.0               | 65.46           | 89.24       | 7,993.8               | 149.8        | -11.8        | -5.1                    | 12.00                   | 12.00                  | 0.00                  |
| 8,150.0               | 68.46           | 89.24       | 8,003.6               | 150.1        | 11.2         | 17.9                    | 12.00                   | 12.00                  | 0.00                  |
| 8,175.0               | 71.46           | 89.24       | 8,012.2               | 150.4        | 34.7         | 41.4                    | 12.00                   | 12.00                  | 0.00                  |
| 8,200.0               | 74.46           | 89.24       | 8,019.5               | 150.7        | 58.6         | 65.3                    | 12.00                   | 12.00                  | 0.00                  |
| 8,225.0               | 77.46           | 89.24       | 8,025.6               | 151.0        | 82.8         | 89.5                    | 12.00                   | 12.00                  | 0.00                  |
| 8,250.0               | 80.46           | 89.24       | 8,030.4               | 151.4        | 107.3        | 114.0                   | 12.00                   | 12.00                  | 0.00                  |
| 8,275.0               | 83.46           | 89.24       | 8,033.9               | 151.7        | 132.1        | 138.8                   | 12.00                   | 12.00                  | 0.00                  |

## ConocoPhillips

## Planning Report

|                  |                       |                                     |                                        |
|------------------|-----------------------|-------------------------------------|----------------------------------------|
| <b>Database:</b> | Central Planning Prod | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Company:</b>  | DELAWARE BASIN WEST   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Project:</b>  | EDDY COUNTY (DBW)     | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site:</b>     | MAN STATE PROJECT     | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | *MAN STATE #502H      | <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) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 8,300.0               | 86.46           | 89.24       | 8,036.1               | 152.0        | 157.0        | 163.6                   | 12.00                   | 12.00                  | 0.00                  |  |
| 8,325.0               | 89.46           | 89.24       | 8,036.9               | 152.4        | 182.0        | 188.6                   | 12.00                   | 12.00                  | 0.00                  |  |
| 8,329.5               | 90.00           | 89.24       | 8,037.0               | 152.4        | 186.5        | 193.1                   | 12.00                   | 12.00                  | 0.00                  |  |
| 8,400.0               | 90.00           | 89.24       | 8,037.0               | 153.3        | 257.0        | 263.6                   | 0.00                    | 0.00                   | 0.00                  |  |
| 8,500.0               | 90.00           | 89.24       | 8,037.0               | 154.7        | 356.9        | 363.5                   | 0.00                    | 0.00                   | 0.00                  |  |
| 8,600.0               | 90.00           | 89.24       | 8,037.0               | 156.0        | 456.9        | 463.5                   | 0.00                    | 0.00                   | 0.00                  |  |
| 8,700.0               | 90.00           | 89.24       | 8,037.0               | 157.3        | 556.9        | 563.4                   | 0.00                    | 0.00                   | 0.00                  |  |
| 8,800.0               | 90.00           | 89.24       | 8,037.0               | 158.7        | 656.9        | 663.4                   | 0.00                    | 0.00                   | 0.00                  |  |
| 8,900.0               | 90.00           | 89.24       | 8,037.0               | 160.0        | 756.9        | 763.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 9,000.0               | 90.00           | 89.24       | 8,037.0               | 161.3        | 856.9        | 863.3                   | 0.00                    | 0.00                   | 0.00                  |  |
| 9,100.0               | 90.00           | 89.24       | 8,037.0               | 162.7        | 956.9        | 963.2                   | 0.00                    | 0.00                   | 0.00                  |  |
| 9,200.0               | 90.00           | 89.24       | 8,037.0               | 164.0        | 1,056.9      | 1,063.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,300.0               | 90.00           | 89.24       | 8,037.0               | 165.3        | 1,156.9      | 1,163.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,400.0               | 90.00           | 89.24       | 8,037.0               | 166.7        | 1,256.9      | 1,263.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,500.0               | 90.00           | 89.24       | 8,037.0               | 168.0        | 1,356.9      | 1,363.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,600.0               | 90.00           | 89.24       | 8,037.0               | 169.3        | 1,456.8      | 1,463.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,700.0               | 90.00           | 89.24       | 8,037.0               | 170.7        | 1,556.8      | 1,562.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,800.0               | 90.00           | 89.24       | 8,037.0               | 172.0        | 1,656.8      | 1,662.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 9,900.0               | 90.00           | 89.24       | 8,037.0               | 173.3        | 1,756.8      | 1,762.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,000.0              | 90.00           | 89.24       | 8,037.0               | 174.7        | 1,856.8      | 1,862.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,100.0              | 90.00           | 89.24       | 8,037.0               | 176.0        | 1,956.8      | 1,962.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,200.0              | 90.00           | 89.24       | 8,037.0               | 177.3        | 2,056.8      | 2,062.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,300.0              | 90.00           | 89.24       | 8,037.0               | 178.7        | 2,156.8      | 2,162.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.0              | 90.00           | 89.24       | 8,037.0               | 180.0        | 2,256.8      | 2,262.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,500.0              | 90.00           | 89.24       | 8,037.0               | 181.3        | 2,356.8      | 2,362.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.0              | 90.00           | 89.24       | 8,037.0               | 182.7        | 2,456.8      | 2,462.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,700.0              | 90.00           | 89.24       | 8,037.0               | 184.0        | 2,556.8      | 2,562.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,800.0              | 90.00           | 89.24       | 8,037.0               | 185.3        | 2,656.7      | 2,662.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 10,900.0              | 90.00           | 89.24       | 8,037.0               | 186.7        | 2,756.7      | 2,762.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,000.0              | 90.00           | 89.24       | 8,037.0               | 188.0        | 2,856.7      | 2,862.3                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,100.0              | 90.00           | 89.24       | 8,037.0               | 189.3        | 2,956.7      | 2,962.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,200.0              | 90.00           | 89.24       | 8,037.0               | 190.7        | 3,056.7      | 3,062.2                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,300.0              | 90.00           | 89.24       | 8,037.0               | 192.0        | 3,156.7      | 3,162.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,400.0              | 90.00           | 89.24       | 8,037.0               | 193.3        | 3,256.7      | 3,262.1                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,500.0              | 90.00           | 89.24       | 8,037.0               | 194.7        | 3,356.7      | 3,362.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,600.0              | 90.00           | 89.24       | 8,037.0               | 196.0        | 3,456.7      | 3,462.0                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,700.0              | 90.00           | 89.24       | 8,037.0               | 197.3        | 3,556.7      | 3,561.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,800.0              | 90.00           | 89.24       | 8,037.0               | 198.6        | 3,656.7      | 3,661.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 11,900.0              | 90.00           | 89.24       | 8,037.0               | 200.0        | 3,756.6      | 3,761.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,000.0              | 90.00           | 89.24       | 8,037.0               | 201.3        | 3,856.6      | 3,861.8                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,100.0              | 90.00           | 89.24       | 8,037.0               | 202.6        | 3,956.6      | 3,961.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,200.0              | 90.00           | 89.24       | 8,037.0               | 204.0        | 4,056.6      | 4,061.7                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,300.0              | 90.00           | 89.24       | 8,037.0               | 205.3        | 4,156.6      | 4,161.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,400.0              | 90.00           | 89.24       | 8,037.0               | 206.6        | 4,256.6      | 4,261.6                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,500.0              | 90.00           | 89.24       | 8,037.0               | 208.0        | 4,356.6      | 4,361.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,600.0              | 90.00           | 89.24       | 8,037.0               | 209.3        | 4,456.6      | 4,461.5                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,700.0              | 90.00           | 89.24       | 8,037.0               | 210.6        | 4,556.6      | 4,561.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,800.0              | 90.00           | 89.24       | 8,037.0               | 212.0        | 4,656.6      | 4,661.4                 | 0.00                    | 0.00                   | 0.00                  |  |
| 12,890.0              | 90.00           | 89.24       | 8,037.0               | 213.2        | 4,746.6      | 4,751.4                 | 0.00                    | 0.00                   | 0.00                  |  |

ConocoPhillips  
Planning Report

|           |                       |                              |                                        |
|-----------|-----------------------|------------------------------|----------------------------------------|
| Database: | Central Planning Prod | Local Co-ordinate Reference: | Well *MAN STATE #502H                  |
| Company:  | DELAWARE BASIN WEST   | TVD Reference:               | WELL @ 3553.0usft (Original Well Elev) |
| Project:  | EDDY COUNTY (DBW)     | MD Reference:                | WELL @ 3553.0usft (Original Well Elev) |
| Site:     | MAN STATE PROJECT     | North Reference:             | Grid                                   |
| Well:     | *MAN STATE #502H      | Survey Calculation Method:   | Minimum Curvature                      |
| Wellbore: | OWB                   |                              |                                        |
| Design:   | PWP0                  |                              |                                        |

| Design Targets                                                                                                               |           |          |         |        |         |            |            |                  |                   |
|------------------------------------------------------------------------------------------------------------------------------|-----------|----------|---------|--------|---------|------------|------------|------------------|-------------------|
| Target Name                                                                                                                  |           |          |         |        |         |            |            |                  |                   |
| - hit/miss target                                                                                                            | Dip Angle | Dip Dir. | TVD     | +N/-S  | +E/-W   | Northing   | Easting    | Latitude         | Longitude         |
| - Shape                                                                                                                      | (°)       | (°)      | (usft)  | (usft) | (usft)  | (usft)     | (usft)     |                  |                   |
| PP (MAN STATE #502H<br>- plan hits target center<br>- Point                                                                  | 0.00      | 0.00     | 6,500.0 | 146.0  | -290.9  | 619,578.06 | 539,391.55 | 32° 42' 11.709 N | 104° 12' 18.989 W |
| FTP (MAN STATE #502I<br>- plan misses target center by 197.8usft at 7951.3usft MD (7894.8 TVD, 147.9 N, -153.4 E)<br>- Point | 0.00      | 0.00     | 8,037.0 | 146.0  | -290.9  | 619,578.06 | 539,391.55 | 32° 42' 11.709 N | 104° 12' 18.989 W |
| PBHL (MAN STATE #50<br>- plan hits target center<br>- Point                                                                  | 0.00      | 0.00     | 8,037.0 | 213.2  | 4,746.6 | 619,645.18 | 544,429.06 | 32° 42' 12.309 N | 104° 11' 20.032 W |
| LTP (MAN STATE #502H<br>- plan misses target center by 40.0usft at 12800.0usft MD (8037.0 TVD, 212.0 N, 4656.6 E)<br>- Point | 0.00      | 0.00     | 8,037.0 | 212.5  | 4,696.6 | 619,644.53 | 544,379.06 | 32° 42' 12.304 N | 104° 11' 20.618 W |

| Casing Points         |                       |                          |  |                     |                   |
|-----------------------|-----------------------|--------------------------|--|---------------------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name                     |  | Casing Diameter (") | Hole Diameter (") |
| 12,890.1              | 8,037.0               | 5-1/2" Production Casing |  | 5-1/2               | 6-3/4             |

# **DELAWARE BASIN WEST**

**EDDY COUNTY (DBW)**

**MAN STATE PROJECT**

**\*MAN STATE #502H**

**OWB**

**PWP0**

## **Anticollision Report**

**05 July, 2023**

## ConocoPhillips

### Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

| Reference                    | PWP0                                                                |                |                       |
|------------------------------|---------------------------------------------------------------------|----------------|-----------------------|
| Filter type:                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                |                       |
| Interpolation Method:        | MD Interval 100.0usft                                               | Error Model:   | ISCWSA                |
| Depth Range:                 | Unlimited                                                           | Scan Method:   | Closest Approach 3D   |
| Results Limited by:          | Maximum centre distance of 2,000.0usft                              | Error Surface: | Combined Pedal Curve  |
| Warning Levels Evaluated at: | 2.79 Sigma                                                          | Casing Method: | Added to Error Values |

| Survey Tool Program |              | Date              | 7/5/2023     |                       |  |
|---------------------|--------------|-------------------|--------------|-----------------------|--|
| From<br>(usft)      | To<br>(usft) | Survey (Wellbore) | Tool Name    | Description           |  |
| 0.0                 | 12,890.0     | PWP0 (OWB)        | r.5 MWD+IFR1 | OWSG MWD + IFR1 rev.5 |  |

| Summary                             |                                 |                              |                                 |                                  |                   |                             |
|-------------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|-----------------------------|
| Site Name                           | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning                     |
| Offset Well - Wellbore - Design     |                                 |                              |                                 |                                  |                   |                             |
| MAN STATE PROJECT                   |                                 |                              |                                 |                                  |                   |                             |
| RESLER YATES STATE #380 - OWB - AWP |                                 |                              |                                 |                                  |                   | Out of range                |
| *MAN STATE #501H - OWB - PWP0       |                                 |                              |                                 |                                  |                   | Out of range                |
| MAN STATE #1 (P&A) - OWB - AWP      | 12,272.1                        | 8,032.2                      | 669.5                           | 305.5                            | 1.839             | Advise and Monitor, CC, ES, |
| MAN STATE #2H - OWB - AWP           | 3,659.0                         | 3,659.4                      | 76.0                            | 53.1                             | 3.326             | CC, ES                      |
| MAN STATE #2H - OWB - AWP           | 6,500.0                         | 6,498.7                      | 109.5                           | 73.5                             | 3.046             | SF                          |
| MAN STATE #3H - OWB - AWP           |                                 |                              |                                 |                                  |                   | Out of range                |
| RESLER-YATES STATE #376 - OWB - AWP | 1,500.0                         | 1,510.9                      | 1,418.7                         | 1,347.8                          | 20.006            | CC                          |
| RESLER-YATES STATE #376 - OWB - AWP | 1,700.0                         | 1,710.7                      | 1,422.8                         | 1,343.5                          | 17.956            | ES                          |
| RESLER-YATES STATE #376 - OWB - AWP | 2,100.0                         | 2,060.0                      | 1,451.7                         | 1,357.9                          | 15.483            | SF                          |
| STATE #1 (P&A) - OWB - AWP          |                                 |                              |                                 |                                  |                   | Out of range                |
| STATE #59 (T&A) - OWB - AWP         |                                 |                              |                                 |                                  |                   | Out of range                |
| STATE 647 #224 - OWB - AWP          | 1,500.0                         | 1,503.9                      | 1,915.6                         | 1,845.0                          | 27.124            | CC                          |
| STATE 647 #224 - OWB - AWP          | 1,600.0                         | 1,603.9                      | 1,917.2                         | 1,842.4                          | 25.632            | ES                          |
| STATE 647 #224 - OWB - AWP          | 2,100.0                         | 2,055.0                      | 1,964.7                         | 1,871.1                          | 20.988            | SF                          |
| STATE BU #1 (T&A) - OWB - AWP       | 9,714.0                         | 8,052.2                      | 1,806.1                         | 1,459.0                          | 5.204             | CC, ES, SF                  |
| STATE C #1 (T&A) - OWB - AWP        |                                 |                              |                                 |                                  |                   | Out of range                |
| STATE WILSON #1 (P&A) - OWB - AWP   |                                 |                              |                                 |                                  |                   | Out of range                |

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

## ConocoPhillips

## Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

| TD Summary                          |                                 |                              |                                 |         |                   |                  |
|-------------------------------------|---------------------------------|------------------------------|---------------------------------|---------|-------------------|------------------|
| Site Name                           | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) |         | Separation Factor | Warning          |
| Offset Well - Wellbore - Design     |                                 |                              |                                 |         |                   |                  |
| MAN STATE PROJECT                   |                                 |                              |                                 |         |                   |                  |
| RESLER YATES STATE #380 - OWB - AWP | 12,890.0                        | 2,080.0                      |                                 |         |                   | Out of Range @TD |
| *MAN STATE #501H - OWB - PWP0       | 12,890.0                        | 8,035.1                      |                                 |         |                   | Out of Range @TD |
| MAN STATE #1 (P&A) - OWB - AWP      | 12,890.0                        | 8,032.2                      | 911.1                           | 553.2   | 2.546             |                  |
| MAN STATE #2H - OWB - AWP           | 12,890.0                        | 11,355.0                     | 1,173.4                         | 1,086.2 | 13.466            |                  |
| MAN STATE #3H - OWB - AWP           | 12,890.0                        | 7,091.5                      |                                 |         |                   | Out of Range @TD |
| RESLER-YATES STATE #376 - OWB - AWP | 12,890.0                        | 2,060.0                      |                                 |         |                   | Out of Range @TD |
| STATE #1 (P&A) - OWB - AWP          | 12,890.0                        | 3,125.0                      |                                 |         |                   | Out of Range @TD |
| STATE #59 (T&A) - OWB - AWP         | 12,890.0                        | 2,049.0                      |                                 |         |                   | Out of Range @TD |
| STATE 647 #224 - OWB - AWP          | 12,890.0                        | 2,055.0                      |                                 |         |                   | Out of Range @TD |
| STATE BU #1 (T&A) - OWB - AWP       | 12,890.0                        | 8,052.2                      |                                 |         |                   | Out of Range @TD |
| STATE C #1 (T&A) - OWB - AWP        | 12,890.0                        | 2,950.0                      |                                 |         |                   | Out of Range @TD |
| STATE WILSON #1 (P&A) - OWB - AWP   | 12,890.0                        | 715.0                        |                                 |         |                   | Out of Range @TD |

| <b>Offset Design:</b> MAN STATE PROJECT - MAN STATE #1 (P&A) - OWB - AWP |                       |                       |                       |                  |               |                       |                                     |              |                                 |                         |                           |                          | <b>Offset Site Error:</b> 0.0 usft |
|--------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|---------------------------------|-------------------------|---------------------------|--------------------------|------------------------------------|
| <b>Survey Program:</b> 500-INC-ONLY                                      |                       |                       |                       |                  |               |                       |                                     |              |                                 |                         |                           |                          | <b>Offset Well Error:</b> 3.0 usft |
| Measured Depth (usft)                                                    | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Distance Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor        | Warning                            |
| 10,400.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 51.6             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,988.2                         | 1,644.4                 | 343.84                    | 5.782                    |                                    |
| 10,500.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 53.6             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,894.4                         | 1,550.4                 | 344.00                    | 5.507                    |                                    |
| 10,600.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 55.5             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,801.2                         | 1,457.0                 | 344.19                    | 5.233                    |                                    |
| 10,700.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 57.5             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,708.7                         | 1,364.3                 | 344.41                    | 4.961                    |                                    |
| 10,800.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 59.5             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,617.2                         | 1,272.5                 | 344.69                    | 4.692                    |                                    |
| 10,900.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 61.4             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,526.7                         | 1,181.7                 | 345.02                    | 4.425                    |                                    |
| 11,000.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 63.4             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,437.5                         | 1,092.1                 | 345.42                    | 4.162                    |                                    |
| 11,100.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 65.4             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,349.8                         | 1,003.9                 | 345.91                    | 3.902                    |                                    |
| 11,200.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 67.3             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,264.0                         | 917.5                   | 346.52                    | 3.648                    |                                    |
| 11,300.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 69.3             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,180.4                         | 833.1                   | 347.27                    | 3.399                    |                                    |
| 11,400.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 71.3             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,099.5                         | 751.3                   | 348.19                    | 3.158                    |                                    |
| 11,500.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 73.3             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 1,022.0                         | 672.6                   | 349.33                    | 2.926                    |                                    |
| 11,600.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 75.2             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 948.7                           | 598.0                   | 350.72                    | 2.705                    |                                    |
| 11,700.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 77.2             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 880.7                           | 528.3                   | 352.40                    | 2.499                    |                                    |
| 11,800.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 79.2             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 819.2                           | 464.8                   | 354.39                    | 2.312                    |                                    |
| 11,900.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 81.2             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 766.0                           | 409.3                   | 356.63                    | 2.148                    |                                    |
| 12,000.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 83.2             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 722.7                           | 363.7                   | 359.01                    | 2.013                    |                                    |
| 12,100.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 85.2             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 691.3                           | 330.0                   | 361.28                    | 1.913 Advise and Monitor |                                    |
| 12,200.0                                                                 | 8,037.0               | 8,032.2               | 8,037.0               | 87.2             | 245.0         | 90.00                 | -464.5                              | 4,137.6      | 673.4                           | 310.3                   | 363.11                    | 1.854 Advise and Monitor |                                    |

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

## ConocoPhillips

## Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

|                                                                          |                                      |                                      |                                      |                             |                          |                                      |                               |                         |                                       |                                        |                                          |                              |                                    |
|--------------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-----------------------------|--------------------------|--------------------------------------|-------------------------------|-------------------------|---------------------------------------|----------------------------------------|------------------------------------------|------------------------------|------------------------------------|
| <b>Offset Design:</b> MAN STATE PROJECT - MAN STATE #1 (P&A) - OWB - AWP |                                      |                                      |                                      |                             |                          |                                      |                               |                         |                                       |                                        |                                          |                              | <b>Offset Site Error:</b> 0.0 usft |
| <b>Survey Program:</b> 500-INC-ONLY                                      |                                      |                                      |                                      |                             |                          |                                      |                               |                         |                                       |                                        |                                          |                              | <b>Offset Well Error:</b> 3.0 usft |
| <b>Reference</b>                                                         |                                      | <b>Offset</b>                        |                                      | <b>Semi Major Axis</b>      |                          | <b>Highside<br/>Toolface<br/>(°)</b> | <b>Offset Wellbore Centre</b> |                         | <b>Distance</b>                       |                                        | <b>Rule Assigned:</b>                    |                              | <b>Warning</b>                     |
| <b>Measured<br/>Depth<br/>(usft)</b>                                     | <b>Vertical<br/>Depth<br/>(usft)</b> | <b>Measured<br/>Depth<br/>(usft)</b> | <b>Vertical<br/>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<br/>Centres<br/>(usft)</b> | <b>Between<br/>Ellipses<br/>(usft)</b> | <b>Minimum<br/>Separation<br/>(usft)</b> | <b>Separation<br/>Factor</b> |                                    |
| 12,272.1                                                                 | 8,037.0                              | 8,032.2                              | 8,037.0                              | 88.6                        | 245.0                    | 90.00                                | -464.5                        | 4,137.6                 | 669.5                                 | 305.5                                  | 364.00                                   | 1.839                        | Advise and Monitor, CC, ES, SF     |
| 12,300.0                                                                 | 8,037.0                              | 8,032.2                              | 8,037.0                              | 89.2                        | 245.0                    | 90.00                                | -464.5                        | 4,137.6                 | 670.1                                 | 305.9                                  | 364.22                                   | 1.840                        | Advise and Monitor                 |
| 12,400.0                                                                 | 8,037.0                              | 8,032.2                              | 8,037.0                              | 91.2                        | 245.0                    | 90.00                                | -464.5                        | 4,137.6                 | 681.6                                 | 317.2                                  | 364.43                                   | 1.870                        | Advise and Monitor                 |
| 12,500.0                                                                 | 8,037.0                              | 8,032.2                              | 8,037.0                              | 93.1                        | 245.0                    | 90.00                                | -464.5                        | 4,137.6                 | 707.2                                 | 343.4                                  | 363.81                                   | 1.944                        | Advise and Monitor                 |
| 12,600.0                                                                 | 8,037.0                              | 8,032.2                              | 8,037.0                              | 95.1                        | 245.0                    | 90.00                                | -464.5                        | 4,137.6                 | 745.5                                 | 382.9                                  | 362.59                                   | 2.056                        |                                    |
| 12,700.0                                                                 | 8,037.0                              | 8,032.2                              | 8,037.0                              | 97.1                        | 245.0                    | 90.00                                | -464.5                        | 4,137.6                 | 794.6                                 | 433.5                                  | 361.03                                   | 2.201                        |                                    |
| 12,800.0                                                                 | 8,037.0                              | 8,032.2                              | 8,037.0                              | 99.1                        | 245.0                    | 90.00                                | -464.5                        | 4,137.6                 | 852.6                                 | 493.2                                  | 359.37                                   | 2.372                        |                                    |
| 12,890.0                                                                 | 8,037.0                              | 8,032.2                              | 8,037.0                              | 100.9                       | 245.0                    | 90.00                                | -464.5                        | 4,137.6                 | 911.1                                 | 553.2                                  | 357.91                                   | 2.546                        |                                    |

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

## ConocoPhillips

## Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWPO                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

| Offset Design: MAN STATE PROJECT - MAN STATE #2H - OWB - AWP |                       |                       |                       |                  |               |                       |                                     |                |                        |                         |                           |                   | Offset Site Error: | 0.0 usft |
|--------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|----------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|----------|
| Survey Program: 100-r.5 GYRO-NS, 6254-r.5 MWD                |                       |                       |                       |                  |               |                       |                                     | Rule Assigned: |                        |                         |                           |                   | Offset Well Error: | 3.0 usft |
| Measured Depth (usft)                                        | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft)   | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |          |
| 0.0                                                          | 0.0                   | 16.0                  | 0.0                   | 3.0              | 3.0           | -90.92                | -3.2                                | -199.6         | 199.6                  | 193.2                   | 6.43                      | 31.043            |                    |          |
| 100.0                                                        | 100.0                 | 116.2                 | 100.2                 | 3.2              | 3.0           | -91.01                | -3.5                                | -199.5         | 199.5                  | 192.8                   | 6.70                      | 29.759            |                    |          |
| 200.0                                                        | 200.0                 | 216.1                 | 200.1                 | 3.5              | 3.1           | -91.08                | -3.8                                | -199.4         | 199.5                  | 192.4                   | 7.03                      | 28.383            |                    |          |
| 300.0                                                        | 300.0                 | 316.5                 | 300.5                 | 3.7              | 3.3           | -91.22                | -4.2                                | -199.2         | 199.3                  | 191.9                   | 7.37                      | 27.036            |                    |          |
| 400.0                                                        | 400.0                 | 416.1                 | 400.1                 | 3.9              | 3.4           | -91.37                | -4.8                                | -199.1         | 199.1                  | 191.4                   | 7.73                      | 25.755            |                    |          |
| 435.4                                                        | 435.4                 | 451.4                 | 435.4                 | 3.9              | 3.5           | -91.41                | -4.9                                | -199.1         | 199.1                  | 191.3                   | 7.86                      | 25.331            |                    |          |
| 500.0                                                        | 500.0                 | 515.8                 | 499.8                 | 4.1              | 3.6           | -91.50                | -5.2                                | -199.1         | 199.2                  | 191.1                   | 8.11                      | 24.561            |                    |          |
| 600.0                                                        | 600.0                 | 615.7                 | 599.7                 | 4.2              | 3.9           | -91.66                | -5.8                                | -199.2         | 199.3                  | 190.8                   | 8.50                      | 23.448            |                    |          |
| 700.0                                                        | 700.0                 | 715.5                 | 699.4                 | 4.4              | 4.1           | -91.81                | -6.3                                | -199.4         | 199.5                  | 190.6                   | 8.90                      | 22.412            |                    |          |
| 800.0                                                        | 800.0                 | 814.8                 | 798.8                 | 4.6              | 4.3           | -91.87                | -6.5                                | -199.9         | 200.0                  | 190.7                   | 9.31                      | 21.476            |                    |          |
| 900.0                                                        | 900.0                 | 915.0                 | 899.0                 | 4.8              | 4.6           | -91.84                | -6.4                                | -200.4         | 200.5                  | 190.8                   | 9.73                      | 20.602            |                    |          |
| 1,000.0                                                      | 1,000.0               | 1,015.0               | 999.0                 | 4.9              | 4.9           | -91.73                | -6.1                                | -200.9         | 201.0                  | 190.9                   | 10.16                     | 19.782            |                    |          |
| 1,100.0                                                      | 1,100.0               | 1,114.7               | 1,098.6               | 5.1              | 5.1           | -91.63                | -5.7                                | -201.5         | 201.6                  | 191.0                   | 10.60                     | 19.026            |                    |          |
| 1,200.0                                                      | 1,200.0               | 1,214.4               | 1,198.4               | 5.2              | 5.4           | -91.48                | -5.2                                | -202.3         | 202.4                  | 191.3                   | 11.04                     | 18.336            |                    |          |
| 1,300.0                                                      | 1,300.0               | 1,315.1               | 1,299.1               | 5.4              | 5.7           | -91.27                | -4.5                                | -202.9         | 202.9                  | 191.4                   | 11.49                     | 17.667            |                    |          |
| 1,400.0                                                      | 1,400.0               | 1,414.0               | 1,398.0               | 5.5              | 6.0           | -91.02                | -3.6                                | -203.6         | 203.6                  | 191.7                   | 11.93                     | 17.065            |                    |          |
| 1,500.0                                                      | 1,500.0               | 1,513.5               | 1,497.4               | 5.7              | 6.3           | -90.52                | -1.9                                | -204.8         | 204.8                  | 192.4                   | 12.39                     | 16.536            |                    |          |
| 1,600.0                                                      | 1,600.0               | 1,614.5               | 1,598.4               | 5.9              | 6.7           | -26.60                | 1.0                                 | -205.7         | 204.2                  | 191.2                   | 12.91                     | 15.814            |                    |          |
| 1,700.0                                                      | 1,699.8               | 1,712.1               | 1,695.9               | 6.1              | 7.0           | -26.50                | 3.8                                 | -207.0         | 200.8                  | 187.4                   | 13.43                     | 14.958            |                    |          |
| 1,800.0                                                      | 1,799.5               | 1,810.3               | 1,794.1               | 6.4              | 7.3           | -27.04                | 5.9                                 | -209.4         | 195.5                  | 181.5                   | 13.96                     | 14.004            |                    |          |
| 1,900.0                                                      | 1,898.7               | 1,911.1               | 1,894.8               | 6.6              | 7.6           | -28.04                | 8.4                                 | -211.8         | 187.1                  | 172.6                   | 14.45                     | 12.945            |                    |          |
| 2,000.0                                                      | 1,997.8               | 2,010.1               | 1,993.8               | 6.8              | 7.9           | -29.15                | 11.2                                | -214.1         | 177.5                  | 162.5                   | 14.98                     | 11.849            |                    |          |
| 2,100.0                                                      | 2,096.9               | 2,109.4               | 2,093.0               | 7.0              | 8.2           | -30.44                | 13.7                                | -216.5         | 168.3                  | 152.8                   | 15.51                     | 10.852            |                    |          |
| 2,200.0                                                      | 2,196.0               | 2,208.7               | 2,192.3               | 7.3              | 8.6           | -31.88                | 16.3                                | -219.1         | 159.2                  | 143.2                   | 16.04                     | 9.926             |                    |          |
| 2,300.0                                                      | 2,295.2               | 2,307.8               | 2,291.3               | 7.6              | 8.9           | -33.48                | 18.8                                | -221.8         | 150.4                  | 133.9                   | 16.58                     | 9.074             |                    |          |
| 2,400.0                                                      | 2,394.3               | 2,406.7               | 2,390.1               | 7.8              | 9.2           | -35.35                | 21.1                                | -224.8         | 142.2                  | 125.1                   | 17.12                     | 8.306             |                    |          |
| 2,500.0                                                      | 2,493.4               | 2,505.7               | 2,489.1               | 8.1              | 9.6           | -37.51                | 23.2                                | -228.3         | 134.5                  | 116.9                   | 17.65                     | 7.621             |                    |          |
| 2,600.0                                                      | 2,592.5               | 2,605.7               | 2,588.9               | 8.4              | 9.9           | -39.86                | 25.5                                | -231.8         | 127.1                  | 108.9                   | 18.19                     | 6.988             |                    |          |
| 2,700.0                                                      | 2,691.6               | 2,705.6               | 2,688.8               | 8.7              | 10.2          | -42.20                | 28.4                                | -235.2         | 119.6                  | 100.9                   | 18.72                     | 6.389             |                    |          |
| 2,800.0                                                      | 2,790.7               | 2,804.7               | 2,787.7               | 9.1              | 10.6          | -44.77                | 31.5                                | -238.7         | 112.4                  | 93.2                    | 19.24                     | 5.844             |                    |          |
| 2,900.0                                                      | 2,889.8               | 2,903.6               | 2,886.5               | 9.4              | 10.9          | -47.90                | 33.9                                | -242.6         | 106.1                  | 86.4                    | 19.73                     | 5.379             |                    |          |
| 3,000.0                                                      | 2,988.9               | 3,003.6               | 2,986.4               | 9.7              | 11.2          | -51.51                | 36.1                                | -246.7         | 100.3                  | 80.1                    | 20.20                     | 4.965             |                    |          |
| 3,100.0                                                      | 3,088.0               | 3,103.4               | 3,086.1               | 10.1             | 11.6          | -55.51                | 38.6                                | -250.5         | 94.6                   | 74.0                    | 20.64                     | 4.585             |                    |          |
| 3,200.0                                                      | 3,187.2               | 3,202.8               | 3,185.4               | 10.4             | 11.9          | -59.97                | 41.0                                | -254.3         | 89.6                   | 68.5                    | 21.05                     | 4.254             |                    |          |
| 3,300.0                                                      | 3,286.3               | 3,302.4               | 3,284.9               | 10.8             | 12.3          | -64.81                | 43.5                                | -258.3         | 85.2                   | 63.7                    | 21.45                     | 3.972             |                    |          |
| 3,400.0                                                      | 3,385.4               | 3,402.0               | 3,384.4               | 11.1             | 12.6          | -69.92                | 46.2                                | -262.5         | 81.5                   | 59.6                    | 21.83                     | 3.732             |                    |          |
| 3,500.0                                                      | 3,484.5               | 3,501.7               | 3,483.9               | 11.5             | 12.9          | -75.30                | 49.1                                | -266.9         | 78.5                   | 56.2                    | 22.21                     | 3.532             |                    |          |
| 3,600.0                                                      | 3,583.6               | 3,601.1               | 3,583.2               | 11.9             | 13.3          | -82.00                | 51.1                                | -270.4         | 76.4                   | 53.8                    | 22.60                     | 3.380             |                    |          |
| 3,659.0                                                      | 3,642.1               | 3,659.4               | 3,641.5               | 12.1             | 13.5          | -86.67                | 51.6                                | -271.9         | 76.0                   | 53.1                    | 22.85                     | 3.326 CC, ES      |                    |          |
| 3,700.0                                                      | 3,682.7               | 3,700.0               | 3,682.1               | 12.3             | 13.6          | -89.97                | 51.8                                | -273.0         | 76.2                   | 53.1                    | 23.05                     | 3.306             |                    |          |
| 3,800.0                                                      | 3,781.9               | 3,799.1               | 3,781.2               | 12.6             | 14.0          | -97.85                | 51.9                                | -275.5         | 78.0                   | 54.4                    | 23.59                     | 3.308             |                    |          |
| 3,900.0                                                      | 3,881.2               | 3,899.0               | 3,881.0               | 13.0             | 14.3          | -104.55               | 51.9                                | -277.8         | 80.8                   | 56.6                    | 24.27                     | 3.332             |                    |          |
| 4,000.0                                                      | 3,980.7               | 3,998.8               | 3,980.9               | 13.3             | 14.6          | -109.91               | 52.2                                | -279.6         | 83.8                   | 58.8                    | 24.99                     | 3.353             |                    |          |
| 4,100.0                                                      | 4,080.3               | 4,098.5               | 4,080.5               | 13.7             | 15.0          | -113.90               | 52.6                                | -281.3         | 86.7                   | 60.9                    | 25.71                     | 3.371             |                    |          |
| 4,200.0                                                      | 4,180.1               | 4,198.5               | 4,180.4               | 14.0             | 15.3          | -116.45               | 52.9                                | -283.2         | 89.1                   | 62.8                    | 26.38                     | 3.379             |                    |          |
| 4,300.0                                                      | 4,280.0               | 4,298.4               | 4,280.4               | 14.3             | 15.7          | -117.82               | 53.3                                | -285.3         | 90.9                   | 63.9                    | 26.99                     | 3.368             |                    |          |
| 4,400.0                                                      | 4,380.0               | 4,398.3               | 4,380.2               | 14.6             | 16.0          | -118.30               | 53.6                                | -287.2         | 91.9                   | 64.4                    | 27.54                     | 3.338             |                    |          |
| 4,500.0                                                      | 4,480.0               | 4,498.2               | 4,480.2               | 14.9             | 16.4          | -117.70               | 53.8                                | -289.2         | 92.2                   | 64.2                    | 28.00                     | 3.294             |                    |          |
| 4,600.0                                                      | 4,580.0               | 4,598.4               | 4,580.3               | 14.9             | 16.7          | -179.58               | 54.1                                | -291.6         | 92.0                   | 63.6                    | 28.37                     | 3.242             |                    |          |
| 4,700.0                                                      | 4,680.0               | 4,698.2               | 4,680.1               | 15.0             | 17.0          | -178.14               | 54.4                                | -293.9         | 91.7                   | 63.0                    | 28.74                     | 3.191             |                    |          |
| 4,739.5                                                      | 4,719.5               | 4,737.6               | 4,719.5               | 15.0             | 17.2          | -177.59               | 54.4                                | -294.8         | 91.7                   | 62.8                    | 28.90                     | 3.173             |                    |          |
| 4,800.0                                                      | 4,780.0               | 4,797.9               | 4,779.8               | 15.1             | 17.4          | -176.74               | 54.4                                | -296.1         | 91.8                   | 62.6                    | 29.13                     | 3.150             |                    |          |

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

## ConocoPhillips

## Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWPO                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

| Offset Design: MAN STATE PROJECT - MAN STATE #2H - OWB - AWP |                       |                       |                       |           |        |                       |                                     |              |                        |                                  |                           |                   | Offset Site Error: | 0.0 usft |
|--------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------|--------|-----------------------|-------------------------------------|--------------|------------------------|----------------------------------|---------------------------|-------------------|--------------------|----------|
| Survey Program: 100-r.5 GYRO-NS, 6254-r.5 MWD                |                       |                       |                       |           |        |                       |                                     |              |                        |                                  |                           |                   | Offset Well Error: | 3.0 usft |
| Measured Depth (usft)                                        | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference | Offset | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Distance Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |          |
| 4,900.0                                                      | 4,880.0               | 4,897.8               | 4,879.6               | 15.1      | 17.7   | -175.21               | 54.3                                | -298.6       | 92.1                   | 62.5                             | 29.52                     | 3.119             |                    |          |
| 5,000.0                                                      | 4,980.0               | 4,997.7               | 4,979.5               | 15.2      | 18.1   | -173.54               | 54.1                                | -301.3       | 92.5                   | 62.6                             | 29.90                     | 3.094             |                    |          |
| 5,100.0                                                      | 5,080.0               | 5,097.5               | 5,079.2               | 15.2      | 18.4   | -171.95               | 53.8                                | -304.0       | 93.2                   | 62.9                             | 30.30                     | 3.075             |                    |          |
| 5,200.0                                                      | 5,180.0               | 5,197.1               | 5,178.8               | 15.3      | 18.8   | -170.36               | 53.2                                | -306.7       | 94.2                   | 63.5                             | 30.71                     | 3.067             |                    |          |
| 5,300.0                                                      | 5,280.0               | 5,297.0               | 5,278.6               | 15.4      | 19.1   | -168.60               | 52.5                                | -309.8       | 95.5                   | 64.4                             | 31.12                     | 3.068             |                    |          |
| 5,400.0                                                      | 5,380.0               | 5,395.6               | 5,377.1               | 15.4      | 19.5   | -166.69               | 51.1                                | -313.4       | 97.6                   | 66.1                             | 31.52                     | 3.096             |                    |          |
| 5,500.0                                                      | 5,480.0               | 5,496.0               | 5,477.5               | 15.5      | 19.8   | -165.20               | 49.1                                | -316.5       | 100.3                  | 68.3                             | 31.96                     | 3.138             |                    |          |
| 5,600.0                                                      | 5,580.0               | 5,596.5               | 5,578.0               | 15.6      | 20.1   | -164.58               | 47.3                                | -318.2       | 102.5                  | 70.0                             | 32.43                     | 3.159             |                    |          |
| 5,700.0                                                      | 5,680.0               | 5,697.1               | 5,678.5               | 15.6      | 20.5   | -164.23               | 45.9                                | -319.2       | 104.1                  | 71.2                             | 32.92                     | 3.163             |                    |          |
| 5,800.0                                                      | 5,780.0               | 5,797.0               | 5,778.5               | 15.7      | 20.8   | -163.89               | 44.7                                | -320.2       | 105.5                  | 72.1                             | 33.39                     | 3.159             |                    |          |
| 5,900.0                                                      | 5,880.0               | 5,897.3               | 5,878.7               | 15.8      | 21.2   | -163.53               | 43.7                                | -321.2       | 106.8                  | 72.9                             | 33.87                     | 3.153             |                    |          |
| 6,000.0                                                      | 5,980.0               | 5,997.9               | 5,979.3               | 15.8      | 21.5   | -162.94               | 43.1                                | -322.5       | 107.7                  | 73.3                             | 34.35                     | 3.134             |                    |          |
| 6,100.0                                                      | 6,080.0               | 6,098.1               | 6,079.5               | 15.9      | 21.9   | -162.18               | 43.1                                | -324.0       | 108.1                  | 73.3                             | 34.82                     | 3.106             |                    |          |
| 6,200.0                                                      | 6,180.0               | 6,197.9               | 6,179.3               | 15.9      | 22.2   | -161.20               | 43.2                                | -325.9       | 108.7                  | 73.4                             | 35.25                     | 3.083             |                    |          |
| 6,300.0                                                      | 6,280.0               | 6,297.9               | 6,279.3               | 16.0      | 22.3   | -160.43               | 43.2                                | -327.5       | 109.2                  | 73.8                             | 35.42                     | 3.082             |                    |          |
| 6,400.0                                                      | 6,380.0               | 6,399.3               | 6,380.6               | 16.1      | 22.3   | -161.89               | 41.8                                | -325.0       | 109.7                  | 74.1                             | 35.53                     | 3.086             |                    |          |
| 6,469.0                                                      | 6,448.9               | 6,468.9               | 6,448.9               | 16.1      | 22.4   | -168.69               | 39.0                                | -312.3       | 109.1                  | 73.4                             | 35.76                     | 3.052             |                    |          |
| 6,500.0                                                      | 6,480.0               | 6,498.7               | 6,477.3               | 16.1      | 22.4   | -173.30               | 37.4                                | -303.7       | 109.5                  | 73.5                             | 35.93                     | 3.046 SF          |                    |          |
| 6,600.0                                                      | 6,580.0               | 6,582.6               | 6,563.1               | 16.2      | 22.4   | 169.06                | 30.8                                | -268.6       | 120.4                  | 84.3                             | 36.13                     | 3.333             |                    |          |
| 6,700.0                                                      | 6,680.0               | 6,651.6               | 6,608.7               | 16.3      | 22.5   | 153.20                | 22.9                                | -228.7       | 155.3                  | 120.7                            | 34.64                     | 4.484             |                    |          |
| 6,800.0                                                      | 6,780.0               | 6,711.9               | 6,653.5               | 16.3      | 22.5   | 142.30                | 14.4                                | -189.2       | 209.0                  | 176.3                            | 32.72                     | 6.389             |                    |          |
| 6,900.0                                                      | 6,880.0               | 6,761.0               | 6,686.5               | 16.4      | 22.6   | 135.41                | 6.8                                 | -153.6       | 275.1                  | 244.2                            | 30.90                     | 8.904             |                    |          |
| 7,000.0                                                      | 6,980.0               | 6,793.0               | 6,705.6               | 16.5      | 22.6   | 131.63                | 1.7                                 | -128.5       | 350.0                  | 321.0                            | 29.02                     | 12.061            |                    |          |
| 7,100.0                                                      | 7,080.0               | 6,824.0               | 6,722.1               | 16.5      | 22.8   | 128.46                | -3.4                                | -102.8       | 431.0                  | 403.2                            | 27.89                     | 15.456            |                    |          |
| 7,200.0                                                      | 7,180.0               | 6,844.5               | 6,731.9               | 16.6      | 22.8   | 126.62                | -6.9                                | -85.1        | 516.3                  | 489.4                            | 26.91                     | 19.188            |                    |          |
| 7,300.0                                                      | 7,280.0               | 6,866.2               | 6,741.5               | 16.7      | 22.9   | 124.90                | -10.8                               | -66.0        | 604.3                  | 577.9                            | 26.36                     | 22.926            |                    |          |
| 7,400.0                                                      | 7,380.0               | 6,887.0               | 6,749.9               | 16.7      | 23.1   | 123.44                | -14.7                               | -47.4        | 694.3                  | 668.3                            | 26.04                     | 26.667            |                    |          |
| 7,500.0                                                      | 7,480.0               | 6,907.9               | 6,757.9               | 16.8      | 23.2   | 122.13                | -18.7                               | -28.6        | 785.7                  | 759.8                            | 25.88                     | 30.362            |                    |          |
| 7,600.0                                                      | 7,580.0               | 6,928.3               | 6,765.4               | 16.8      | 23.3   | 120.87                | -22.8                               | -10.0        | 877.9                  | 852.1                            | 25.81                     | 34.013            |                    |          |
| 7,700.0                                                      | 7,678.7               | 6,951.0               | 6,773.2               | 16.6      | 23.4   | 119.49                | -27.4                               | 10.8         | 965.5                  | 939.8                            | 25.65                     | 37.642            |                    |          |
| 7,800.0                                                      | 7,772.2               | 6,983.0               | 6,783.2               | 16.3      | 23.7   | 117.97                | -34.1                               | 40.5         | 1,044.1                | 1,018.5                          | 25.52                     | 40.919            |                    |          |
| 7,900.0                                                      | 7,856.4               | 7,003.8               | 6,788.8               | 16.1      | 23.8   | 116.47                | -38.5                               | 60.0         | 1,111.5                | 1,086.3                          | 25.26                     | 44.007            |                    |          |
| 8,000.0                                                      | 7,927.7               | 7,028.3               | 6,794.5               | 15.9      | 24.0   | 115.01                | -43.6                               | 83.2         | 1,166.7                | 1,141.6                          | 25.14                     | 46.403            |                    |          |
| 8,100.0                                                      | 7,982.8               | 7,046.0               | 6,797.8               | 15.9      | 24.2   | 113.52                | -47.2                               | 100.3        | 1,208.8                | 1,183.6                          | 25.16                     | 48.050            |                    |          |
| 8,200.0                                                      | 8,019.5               | 7,077.0               | 6,801.5               | 16.1      | 24.5   | 111.97                | -53.2                               | 130.4        | 1,237.1                | 1,211.6                          | 25.45                     | 48.614            |                    |          |
| 8,300.0                                                      | 8,036.1               | 7,109.0               | 6,802.7               | 16.5      | 24.8   | 110.47                | -58.5                               | 162.0        | 1,251.2                | 1,225.3                          | 25.93                     | 48.253            |                    |          |
| 8,400.0                                                      | 8,037.0               | 7,154.5               | 6,802.2               | 17.3      | 25.4   | 108.98                | -64.5                               | 207.1        | 1,254.8                | 1,228.2                          | 26.58                     | 47.213            |                    |          |
| 8,500.0                                                      | 8,037.0               | 7,253.3               | 6,799.2               | 18.3      | 26.6   | 107.42                | -73.6                               | 305.4        | 1,259.7                | 1,232.4                          | 27.33                     | 46.086            |                    |          |
| 8,600.0                                                      | 8,037.0               | 7,386.7               | 6,797.1               | 19.5      | 28.6   | 105.80                | -80.8                               | 438.5        | 1,262.4                | 1,234.3                          | 28.18                     | 44.802            |                    |          |
| 8,700.0                                                      | 8,037.0               | 7,501.0               | 6,795.6               | 20.9      | 30.5   | 104.74                | -78.2                               | 552.8        | 1,263.5                | 1,234.5                          | 29.05                     | 43.495            |                    |          |
| 8,800.0                                                      | 8,037.0               | 7,633.5               | 6,795.5               | 22.4      | 32.6   | 103.60                | -73.3                               | 685.2        | 1,263.2                | 1,233.2                          | 30.00                     | 42.113            |                    |          |
| 8,900.0                                                      | 8,037.0               | 7,714.7               | 6,796.6               | 24.0      | 34.1   | 102.54                | -70.7                               | 766.4        | 1,261.7                | 1,230.7                          | 30.98                     | 40.722            |                    |          |
| 9,000.0                                                      | 8,037.0               | 7,817.0               | 6,796.4               | 25.6      | 35.9   | 101.46                | -67.6                               | 868.6        | 1,261.6                | 1,229.5                          | 32.03                     | 39.382            |                    |          |
| 9,100.0                                                      | 8,037.0               | 7,947.6               | 6,799.0               | 27.4      | 38.4   | 100.45                | -65.0                               | 999.1        | 1,259.4                | 1,226.2                          | 33.19                     | 37.950            |                    |          |
| 9,200.0                                                      | 8,037.0               | 8,030.6               | 6,800.9               | 29.1      | 40.0   | 100.43                | -63.3                               | 1,082.1      | 1,257.0                | 1,222.7                          | 34.33                     | 36.616            |                    |          |
| 9,300.0                                                      | 8,037.0               | 8,168.4               | 6,805.4               | 30.9      | 42.8   | 100.48                | -61.6                               | 1,219.8      | 1,253.8                | 1,218.2                          | 35.61                     | 35.207            |                    |          |
| 9,400.0                                                      | 8,037.0               | 8,270.1               | 6,811.2               | 32.7      | 44.9   | 100.57                | -61.2                               | 1,321.3      | 1,248.4                | 1,211.5                          | 36.90                     | 33.828            |                    |          |
| 9,500.0                                                      | 8,037.0               | 8,345.4               | 6,814.4               | 34.5      | 46.5   | 100.61                | -60.5                               | 1,396.5      | 1,244.4                | 1,206.2                          | 38.19                     | 32.583            |                    |          |
| 9,600.0                                                      | 8,037.0               | 8,429.9               | 6,815.9               | 36.4      | 48.2   | 100.63                | -59.6                               | 1,481.0      | 1,242.6                | 1,203.0                          | 39.54                     | 31.427            |                    |          |
| 9,700.0                                                      | 8,037.0               | 8,585.9               | 6,823.1               | 38.2      | 51.6   | 100.70                | -57.6                               | 1,636.8      | 1,237.8                | 1,196.7                          | 41.06                     | 30.144            |                    |          |
| 9,800.0                                                      | 8,037.0               | 8,693.5               | 6,830.2               | 40.1      | 53.9   | 100.75                | -55.9                               | 1,744.2      | 1,231.2                | 1,188.7                          | 42.48                     | 28.983            |                    |          |
| 9,900.0                                                      | 8,037.0               | 8,785.0               | 6,836.6               | 42.0      | 55.9   | 100.78                | -54.2                               | 1,835.5      | 1,224.3                | 1,180.4                          | 43.90                     | 27.887            |                    |          |

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

## ConocoPhillips

## Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWPO                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

| <b>Offset Design:</b> MAN STATE PROJECT - MAN STATE #2H - OWB - AWP |                       |                       |                       |                  |                               |                       |                                     |                       |                                 |                         |                           |                   | <b>Offset Site Error:</b> 0.0 usft |
|---------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|-------------------------------|-----------------------|-------------------------------------|-----------------------|---------------------------------|-------------------------|---------------------------|-------------------|------------------------------------|
| <b>Survey Program:</b> 100-r.5 GYRO-NS, 6254-r.5 MWD                |                       |                       |                       |                  |                               |                       |                                     | <b>Rule Assigned:</b> |                                 |                         |                           |                   | <b>Offset Well Error:</b> 3.0 usft |
| Measured Depth (usft)                                               | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Semi Major Axis Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft)          | Distance Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                            |
| 10,000.0                                                            | 8,037.0               | 8,861.7               | 6,840.3               | 43.9             | 57.6                          | 10.77                 | -52.3                               | 1,912.1               | 1,219.3                         | 1,174.0                 | 45.32                     | 26.902            |                                    |
| 10,100.0                                                            | 8,037.0               | 9,002.2               | 6,848.9               | 45.8             | 60.8                          | 10.85                 | -50.4                               | 2,052.2               | 1,213.2                         | 1,166.3                 | 46.88                     | 25.880            |                                    |
| 10,200.0                                                            | 8,037.0               | 9,104.0               | 6,857.3               | 47.8             | 63.0                          | 10.90                 | -48.6                               | 2,153.7               | 1,205.0                         | 1,156.6                 | 48.38                     | 24.908            |                                    |
| 10,300.0                                                            | 8,037.0               | 9,184.1               | 6,862.6               | 49.7             | 64.8                          | 10.90                 | -46.6                               | 2,233.6               | 1,198.3                         | 1,148.4                 | 49.86                     | 24.031            |                                    |
| 10,400.0                                                            | 8,037.0               | 9,319.4               | 6,872.7               | 51.6             | 67.9                          | 10.95                 | -43.9                               | 2,368.5               | 1,190.9                         | 1,139.5                 | 51.40                     | 23.167            |                                    |
| 10,500.0                                                            | 8,037.0               | 9,415.8               | 6,881.9               | 53.6             | 70.1                          | 11.01                 | -41.9                               | 2,464.5               | 1,181.3                         | 1,128.4                 | 52.96                     | 22.307            |                                    |
| 10,600.0                                                            | 8,037.0               | 9,490.5               | 6,887.8               | 55.5             | 71.8                          | 11.03                 | -40.3                               | 2,538.9               | 1,173.5                         | 1,118.9                 | 54.51                     | 21.526            |                                    |
| 10,700.0                                                            | 8,037.0               | 9,617.0               | 6,895.8               | 57.5             | 74.7                          | 11.04                 | -37.1                               | 2,665.1               | 1,167.4                         | 1,111.3                 | 56.15                     | 20.793            |                                    |
| 10,800.0                                                            | 8,037.0               | 9,738.0               | 6,909.3               | 59.5             | 77.4                          | 11.06                 | -33.5                               | 2,785.3               | 1,155.8                         | 1,098.1                 | 57.76                     | 20.009            |                                    |
| 10,900.0                                                            | 8,037.0               | 9,815.1               | 6,916.9               | 61.4             | 79.2                          | 11.07                 | -31.0                               | 2,861.9               | 1,145.8                         | 1,086.5                 | 59.37                     | 19.302            |                                    |
| 11,000.0                                                            | 8,037.0               | 9,887.6               | 6,922.5               | 63.4             | 80.9                          | 11.06                 | -28.8                               | 2,934.2               | 1,138.0                         | 1,077.1                 | 60.96                     | 18.670            |                                    |
| 11,100.0                                                            | 8,037.0               | 9,959.0               | 6,925.9               | 65.4             | 82.5                          | 11.03                 | -26.5                               | 3,005.5               | 1,132.9                         | 1,070.4                 | 62.52                     | 18.119            |                                    |
| 11,200.0                                                            | 8,037.0               | 10,054.0              | 6,929.2               | 67.3             | 84.7                          | 11.01                 | -24.3                               | 3,100.4               | 1,129.3                         | 1,065.2                 | 64.09                     | 17.620            |                                    |
| 11,300.0                                                            | 8,037.0               | 10,134.6              | 6,931.5               | 69.3             | 86.6                          | 11.02                 | -23.0                               | 3,181.0               | 1,126.5                         | 1,060.8                 | 65.68                     | 17.150            |                                    |
| 11,400.0                                                            | 8,037.0               | 10,222.5              | 6,932.7               | 71.3             | 88.7                          | 11.05                 | -22.1                               | 3,268.8               | 1,125.2                         | 1,057.9                 | 67.29                     | 16.721            |                                    |
| 11,500.0                                                            | 8,037.0               | 10,337.3              | 6,934.9               | 73.3             | 91.3                          | 11.08                 | -20.8                               | 3,383.6               | 1,123.3                         | 1,054.3                 | 68.95                     | 16.291            |                                    |
| 11,600.0                                                            | 8,037.0               | 10,434.0              | 6,936.8               | 75.2             | 93.6                          | 11.02                 | -17.9                               | 3,480.2               | 1,121.1                         | 1,050.6                 | 70.50                     | 15.901            |                                    |
| 11,700.0                                                            | 8,037.0               | 10,579.2              | 6,941.2               | 77.2             | 97.0                          | 10.93                 | -13.4                               | 3,625.3               | 1,118.0                         | 1,045.9                 | 72.07                     | 15.512            |                                    |
| 11,800.0                                                            | 8,037.0               | 10,656.0              | 6,944.0               | 79.2             | 98.8                          | 10.90                 | -11.3                               | 3,702.0               | 1,113.9                         | 1,040.2                 | 73.67                     | 15.120            |                                    |
| 11,900.0                                                            | 8,037.0               | 10,768.3              | 6,948.8               | 81.2             | 101.4                         | 10.86                 | -8.0                                | 3,814.2               | 1,109.4                         | 1,034.2                 | 75.24                     | 14.746            |                                    |
| 12,000.0                                                            | 8,037.0               | 10,846.0              | 6,951.5               | 83.2             | 103.3                         | 10.81                 | -5.5                                | 3,891.8               | 1,105.6                         | 1,028.8                 | 76.82                     | 14.393            |                                    |
| 12,100.0                                                            | 8,037.0               | 10,928.1              | 6,952.9               | 85.2             | 105.2                         | 10.75                 | -2.9                                | 3,973.8               | 1,103.6                         | 1,025.2                 | 78.36                     | 14.083            |                                    |
| 12,199.7                                                            | 8,037.0               | 11,013.4              | 6,953.2               | 87.2             | 107.2                         | 10.70                 | -0.8                                | 4,059.1               | 1,102.9                         | 1,023.0                 | 79.91                     | 13.802            |                                    |
| 12,200.0                                                            | 8,037.0               | 11,013.6              | 6,953.2               | 87.2             | 107.2                         | 10.70                 | -0.8                                | 4,059.3               | 1,102.9                         | 1,023.0                 | 79.92                     | 13.801            |                                    |
| 12,300.0                                                            | 8,037.0               | 11,088.2              | 6,952.3               | 89.2             | 109.0                         | 10.65                 | 1.0                                 | 4,133.9               | 1,104.0                         | 1,022.5                 | 81.46                     | 13.553            |                                    |
| 12,400.0                                                            | 8,037.0               | 11,162.0              | 6,949.4               | 91.2             | 110.7                         | 10.58                 | 2.8                                 | 4,207.6               | 1,107.6                         | 1,024.7                 | 82.94                     | 13.355            |                                    |
| 12,500.0                                                            | 8,037.0               | 11,234.3              | 6,944.7               | 93.1             | 112.4                         | 10.49                 | 4.8                                 | 4,279.7               | 1,113.7                         | 1,029.3                 | 84.32                     | 13.208            |                                    |
| 12,600.0                                                            | 8,037.0               | 11,326.7              | 6,937.2               | 95.1             | 114.6                         | 10.35                 | 7.3                                 | 4,371.8               | 1,121.4                         | 1,035.6                 | 85.73                     | 13.080            |                                    |
| 12,700.0                                                            | 8,037.0               | 11,355.0              | 6,934.9               | 97.1             | 115.3                         | 10.31                 | 8.1                                 | 4,399.9               | 1,131.4                         | 1,044.7                 | 86.75                     | 13.043            |                                    |
| 12,800.0                                                            | 8,037.0               | 11,355.0              | 6,934.9               | 99.1             | 115.3                         | 10.31                 | 8.1                                 | 4,399.9               | 1,149.8                         | 1,062.6                 | 87.17                     | 13.191            |                                    |
| 12,890.0                                                            | 8,037.0               | 11,355.0              | 6,934.9               | 100.9            | 115.3                         | 10.31                 | 8.1                                 | 4,399.9               | 1,173.4                         | 1,086.2                 | 87.14                     | 13.466            |                                    |

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

## ConocoPhillips

## Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWPO                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

|                                                                               |                                  |                                  |                                  |                             |                          |                                  |                               |                         |                                   |                                    |                                      |                           |                |
|-------------------------------------------------------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------|--------------------------|----------------------------------|-------------------------------|-------------------------|-----------------------------------|------------------------------------|--------------------------------------|---------------------------|----------------|
| <b>Offset Design:</b> MAN STATE PROJECT - RESLER-YATES STATE #376 - OWB - AWP |                                  |                                  |                                  |                             |                          |                                  |                               |                         |                                   |                                    |                                      | <b>Offset Site Error:</b> | 0.0 usft       |
| <b>Survey Program:</b> 500-INC-ONLY                                           |                                  |                                  |                                  |                             |                          |                                  |                               |                         |                                   |                                    |                                      | <b>Offset Well Error:</b> | 3.0 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> |                                      |                           |                |
| 0.0                                                                           | 0.0                              | 10.0                             | 0.0                              | 3.0                         | 3.0                      | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,412.3                            | 6.46                                 | 219.789                   |                |
| 100.0                                                                         | 100.0                            | 110.0                            | 100.0                            | 3.2                         | 5.3                      | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,409.5                            | 9.19                                 | 154.322                   |                |
| 200.0                                                                         | 200.0                            | 210.0                            | 200.0                            | 3.5                         | 8.9                      | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,404.9                            | 13.83                                | 102.564                   |                |
| 300.0                                                                         | 300.0                            | 310.0                            | 300.0                            | 3.7                         | 12.7                     | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,399.7                            | 18.99                                | 74.698                    |                |
| 400.0                                                                         | 400.0                            | 410.0                            | 400.0                            | 3.9                         | 16.6                     | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,394.4                            | 24.34                                | 58.293                    |                |
| 500.0                                                                         | 500.0                            | 510.2                            | 500.0                            | 4.1                         | 20.5                     | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,389.1                            | 29.64                                | 47.869                    |                |
| 600.0                                                                         | 600.0                            | 610.2                            | 600.0                            | 4.2                         | 23.4                     | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,385.0                            | 33.72                                | 42.077                    |                |
| 700.0                                                                         | 700.0                            | 710.2                            | 700.0                            | 4.4                         | 26.4                     | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,380.9                            | 37.81                                | 37.522                    |                |
| 800.0                                                                         | 800.0                            | 814.9                            | 804.5                            | 4.6                         | 29.5                     | 61.83                            | 670.5                         | 1,251.9                 | 1,420.2                           | 1,378.1                            | 42.10                                | 33.730                    |                |
| 900.0                                                                         | 900.0                            | 922.7                            | 912.3                            | 4.8                         | 32.6                     | 61.87                            | 669.2                         | 1,251.9                 | 1,419.6                           | 1,373.1                            | 46.53                                | 30.508                    |                |
| 1,000.0                                                                       | 1,000.0                          | 1,010.6                          | 1,000.0                          | 4.9                         | 35.2                     | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,368.6                            | 50.16                                | 28.285                    |                |
| 1,100.0                                                                       | 1,100.0                          | 1,110.6                          | 1,100.0                          | 5.1                         | 38.2                     | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,364.4                            | 54.30                                | 26.127                    |                |
| 1,200.0                                                                       | 1,200.0                          | 1,210.6                          | 1,200.0                          | 5.2                         | 41.2                     | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,360.3                            | 58.45                                | 24.274                    |                |
| 1,300.0                                                                       | 1,300.0                          | 1,312.0                          | 1,301.4                          | 5.4                         | 44.2                     | 61.90                            | 668.5                         | 1,251.9                 | 1,419.2                           | 1,356.6                            | 62.66                                | 22.651                    |                |
| 1,400.0                                                                       | 1,400.0                          | 1,414.4                          | 1,403.9                          | 5.5                         | 47.3                     | 61.91                            | 668.1                         | 1,251.9                 | 1,419.0                           | 1,352.1                            | 66.91                                | 21.209                    |                |
| 1,500.0                                                                       | 1,500.0                          | 1,510.9                          | 1,500.0                          | 5.7                         | 50.1                     | 61.94                            | 667.5                         | 1,251.9                 | 1,418.7                           | 1,347.8                            | 70.91                                | 20.006 CC                 |                |
| 1,600.0                                                                       | 1,600.0                          | 1,610.9                          | 1,600.0                          | 5.9                         | 53.1                     | 125.32                           | 667.5                         | 1,251.9                 | 1,419.8                           | 1,344.7                            | 75.08                                | 18.910                    |                |
| 1,700.0                                                                       | 1,699.8                          | 1,710.7                          | 1,699.8                          | 6.1                         | 56.1                     | 125.44                           | 667.5                         | 1,251.9                 | 1,422.8                           | 1,343.5                            | 79.24                                | 17.956 ES                 |                |
| 1,800.0                                                                       | 1,799.5                          | 1,810.3                          | 1,799.5                          | 6.4                         | 59.1                     | 125.64                           | 667.5                         | 1,251.9                 | 1,427.9                           | 1,344.5                            | 83.39                                | 17.123                    |                |
| 1,900.0                                                                       | 1,898.7                          | 1,909.6                          | 1,898.7                          | 6.6                         | 62.1                     | 125.94                           | 667.5                         | 1,251.9                 | 1,435.0                           | 1,347.5                            | 87.52                                | 16.396                    |                |
| 2,000.0                                                                       | 1,997.8                          | 2,008.7                          | 1,997.8                          | 6.8                         | 65.0                     | 126.37                           | 667.5                         | 1,251.9                 | 1,442.9                           | 1,351.2                            | 91.66                                | 15.742                    |                |
| 2,100.0                                                                       | 2,096.9                          | 2,060.0                          | 2,048.7                          | 7.0                         | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,451.7                           | 1,357.9                            | 93.76                                | 15.483 SF                 |                |
| 2,200.0                                                                       | 2,196.0                          | 2,060.0                          | 2,048.7                          | 7.3                         | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,466.3                           | 1,373.0                            | 93.37                                | 15.705                    |                |
| 2,300.0                                                                       | 2,295.2                          | 2,060.0                          | 2,048.7                          | 7.6                         | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,487.6                           | 1,395.0                            | 92.59                                | 16.067                    |                |
| 2,400.0                                                                       | 2,394.3                          | 2,060.0                          | 2,048.7                          | 7.8                         | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,515.2                           | 1,423.7                            | 91.46                                | 16.567                    |                |
| 2,500.0                                                                       | 2,493.4                          | 2,060.0                          | 2,048.7                          | 8.1                         | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,548.7                           | 1,458.7                            | 90.03                                | 17.201                    |                |
| 2,600.0                                                                       | 2,592.5                          | 2,060.0                          | 2,048.7                          | 8.4                         | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,587.9                           | 1,499.5                            | 88.37                                | 17.968                    |                |
| 2,700.0                                                                       | 2,691.6                          | 2,060.0                          | 2,048.7                          | 8.7                         | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,632.2                           | 1,545.7                            | 86.52                                | 18.864                    |                |
| 2,800.0                                                                       | 2,790.7                          | 2,060.0                          | 2,048.7                          | 9.1                         | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,681.3                           | 1,596.8                            | 84.54                                | 19.887                    |                |
| 2,900.0                                                                       | 2,889.8                          | 2,060.0                          | 2,048.7                          | 9.4                         | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,734.8                           | 1,652.4                            | 82.48                                | 21.033                    |                |
| 3,000.0                                                                       | 2,988.9                          | 2,060.0                          | 2,048.7                          | 9.7                         | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,792.3                           | 1,712.0                            | 80.37                                | 22.300                    |                |
| 3,100.0                                                                       | 3,088.0                          | 2,060.0                          | 2,048.7                          | 10.1                        | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,853.4                           | 1,775.2                            | 78.26                                | 23.685                    |                |
| 3,200.0                                                                       | 3,187.2                          | 2,060.0                          | 2,048.7                          | 10.4                        | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,917.8                           | 1,841.7                            | 76.15                                | 25.184                    |                |
| 3,300.0                                                                       | 3,286.3                          | 2,060.0                          | 2,048.7                          | 10.8                        | 66.5                     | 126.58                           | 667.5                         | 1,251.9                 | 1,985.2                           | 1,911.1                            | 74.09                                | 26.795                    |                |

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

## ConocoPhillips

## Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWPO                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

|                                                                      |                                      |                                      |                                      |                             |                          |                                      |                               |                         |                                       |                                        |                                          |                              |                |
|----------------------------------------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-----------------------------|--------------------------|--------------------------------------|-------------------------------|-------------------------|---------------------------------------|----------------------------------------|------------------------------------------|------------------------------|----------------|
| <b>Offset Design:</b> MAN STATE PROJECT - STATE 647 #224 - OWB - AWP |                                      |                                      |                                      |                             |                          |                                      |                               |                         |                                       |                                        |                                          | <b>Offset Site Error:</b>    | 0.0 usft       |
| <b>Survey Program:</b> 500-INC-ONLY                                  |                                      |                                      |                                      |                             |                          |                                      |                               |                         |                                       |                                        |                                          | <b>Offset Well Error:</b>    | 3.0 usft       |
| <b>Reference</b>                                                     |                                      | <b>Offset</b>                        |                                      | <b>Semi Major Axis</b>      |                          | <b>Highside<br/>Toolface<br/>(°)</b> | <b>Offset Wellbore Centre</b> |                         | <b>Distance</b>                       |                                        | <b>Minimum<br/>Separation<br/>(usft)</b> | <b>Separation<br/>Factor</b> | <b>Warning</b> |
| <b>Measured<br/>Depth<br/>(usft)</b>                                 | <b>Vertical<br/>Depth<br/>(usft)</b> | <b>Measured<br/>Depth<br/>(usft)</b> | <b>Vertical<br/>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<br/>Centres<br/>(usft)</b> | <b>Between<br/>Ellipses<br/>(usft)</b> |                                          |                              |                |
| 0.0                                                                  | 0.0                                  | 3.0                                  | 0.0                                  | 3.0                         | 3.0                      | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,909.2                                | 6.43                                     | 297.858                      |                |
| 100.0                                                                | 100.0                                | 103.0                                | 100.0                                | 3.2                         | 5.1                      | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,906.7                                | 8.92                                     | 214.682                      |                |
| 200.0                                                                | 200.0                                | 203.0                                | 200.0                                | 3.5                         | 8.6                      | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,902.1                                | 13.49                                    | 141.981                      |                |
| 300.0                                                                | 300.0                                | 303.0                                | 300.0                                | 3.7                         | 12.5                     | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,897.0                                | 18.63                                    | 102.826                      |                |
| 400.0                                                                | 400.0                                | 403.0                                | 400.0                                | 3.9                         | 16.4                     | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,891.6                                | 23.97                                    | 79.933                       |                |
| 500.0                                                                | 500.0                                | 503.2                                | 500.0                                | 4.1                         | 20.3                     | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,886.2                                | 29.36                                    | 65.253                       |                |
| 600.0                                                                | 600.0                                | 603.2                                | 600.0                                | 4.2                         | 23.2                     | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,882.2                                | 33.43                                    | 57.294                       |                |
| 700.0                                                                | 700.0                                | 703.2                                | 700.0                                | 4.4                         | 26.2                     | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,878.1                                | 37.53                                    | 51.046                       |                |
| 800.0                                                                | 800.0                                | 803.4                                | 800.1                                | 4.6                         | 29.1                     | 89.34                                | 22.1                          | 1,915.5                 | 1,915.6                               | 1,874.0                                | 41.64                                    | 46.007                       |                |
| 900.0                                                                | 900.0                                | 903.8                                | 900.5                                | 4.8                         | 32.1                     | 89.37                                | 21.0                          | 1,915.5                 | 1,915.6                               | 1,869.9                                | 45.77                                    | 41.857                       |                |
| 1,000.0                                                              | 1,000.0                              | 1,003.6                              | 1,000.0                              | 4.9                         | 35.0                     | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,865.7                                | 49.87                                    | 38.411                       |                |
| 1,100.0                                                              | 1,100.0                              | 1,103.6                              | 1,100.0                              | 5.1                         | 38.0                     | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,861.6                                | 54.01                                    | 35.465                       |                |
| 1,200.0                                                              | 1,200.0                              | 1,203.6                              | 1,200.0                              | 5.2                         | 41.0                     | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,857.4                                | 58.16                                    | 32.937                       |                |
| 1,300.0                                                              | 1,300.0                              | 1,303.6                              | 1,300.0                              | 5.4                         | 44.0                     | 89.40                                | 20.0                          | 1,915.5                 | 1,915.6                               | 1,853.3                                | 62.31                                    | 30.744                       |                |
| 1,400.0                                                              | 1,400.0                              | 1,403.7                              | 1,400.1                              | 5.5                         | 47.0                     | 89.41                                | 19.6                          | 1,915.5                 | 1,915.6                               | 1,849.1                                | 66.46                                    | 28.822                       |                |
| 1,500.0                                                              | 1,500.0                              | 1,503.9                              | 1,500.0                              | 5.7                         | 49.9                     | 89.43                                | 18.9                          | 1,915.5                 | 1,915.6                               | 1,845.0                                | 70.62                                    | 27.124 CC                    |                |
| 1,600.0                                                              | 1,600.0                              | 1,603.9                              | 1,600.0                              | 5.9                         | 52.9                     | 152.79                               | 18.9                          | 1,915.5                 | 1,917.2                               | 1,842.4                                | 74.79                                    | 25.632 ES                    |                |
| 1,700.0                                                              | 1,699.8                              | 1,703.7                              | 1,699.8                              | 6.1                         | 55.9                     | 152.81                               | 18.9                          | 1,915.5                 | 1,921.8                               | 1,842.8                                | 78.96                                    | 24.339                       |                |
| 1,800.0                                                              | 1,799.5                              | 1,803.3                              | 1,799.5                              | 6.4                         | 58.9                     | 152.86                               | 18.9                          | 1,915.5                 | 1,929.6                               | 1,846.4                                | 83.12                                    | 23.214                       |                |
| 1,900.0                                                              | 1,898.7                              | 1,902.6                              | 1,898.7                              | 6.6                         | 61.8                     | 152.95                               | 18.9                          | 1,915.5                 | 1,940.4                               | 1,853.1                                | 87.26                                    | 22.237                       |                |
| 2,000.0                                                              | 1,997.8                              | 2,001.7                              | 1,997.8                              | 6.8                         | 64.8                     | 153.12                               | 18.9                          | 1,915.5                 | 1,952.3                               | 1,860.9                                | 91.40                                    | 21.360                       |                |
| 2,100.0                                                              | 2,096.9                              | 2,055.0                              | 2,050.7                              | 7.0                         | 66.4                     | 153.22                               | 18.9                          | 1,915.5                 | 1,964.7                               | 1,871.1                                | 93.61                                    | 20.988 SF                    |                |
| 2,200.0                                                              | 2,196.0                              | 2,055.0                              | 2,050.7                              | 7.3                         | 66.4                     | 153.22                               | 18.9                          | 1,915.5                 | 1,981.4                               | 1,888.0                                | 93.42                                    | 21.209                       |                |

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

## ConocoPhillips

## Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWPO                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

| <b>Offset Design:</b> MAN STATE PROJECT - STATE BU #1 (T&A) - OWB - AWP |                       |                       |                       |           |        |                       |                       |              |                        |                         |                           |                   | <b>Offset Site Error:</b> 0.0 usft |
|-------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------|--------|-----------------------|-----------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|------------------------------------|
| <b>Survey Program:</b> 500-INC-ONLY                                     |                       |                       |                       |           |        |                       | <b>Rule Assigned:</b> |              |                        |                         |                           |                   | <b>Offset Well Error:</b> 3.0 usft |
| Measured Depth (usft)                                                   | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference | Offset | Highside Toolface (°) | +N/-S (usft)          | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                            |
| 8,900.0                                                                 | 8,037.0               | 8,052.1               | 8,037.0               | 24.0      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,981.3                | 1,637.0                 | 344.37                    | 5.754             |                                    |
| 9,000.0                                                                 | 8,037.0               | 8,052.1               | 8,037.0               | 25.6      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,942.4                | 1,597.8                 | 344.60                    | 5.637             |                                    |
| 9,100.0                                                                 | 8,037.0               | 8,052.1               | 8,037.0               | 27.4      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,907.8                | 1,563.0                 | 344.86                    | 5.532             |                                    |
| 9,200.0                                                                 | 8,037.0               | 8,052.1               | 8,037.0               | 29.1      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,878.0                | 1,532.8                 | 345.15                    | 5.441             |                                    |
| 9,300.0                                                                 | 8,037.0               | 8,052.1               | 8,037.0               | 30.9      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,853.1                | 1,507.6                 | 345.47                    | 5.364             |                                    |
| 9,400.0                                                                 | 8,037.0               | 8,052.2               | 8,037.0               | 32.7      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,833.3                | 1,487.5                 | 345.82                    | 5.301             |                                    |
| 9,500.0                                                                 | 8,037.0               | 8,052.2               | 8,037.0               | 34.5      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,818.8                | 1,472.6                 | 346.19                    | 5.254             |                                    |
| 9,600.0                                                                 | 8,037.0               | 8,052.2               | 8,037.0               | 36.4      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,809.7                | 1,463.1                 | 346.57                    | 5.222             |                                    |
| 9,700.0                                                                 | 8,037.0               | 8,052.2               | 8,037.0               | 38.2      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,806.1                | 1,459.2                 | 346.97                    | 5.206             |                                    |
| 9,714.0                                                                 | 8,037.0               | 8,052.2               | 8,037.0               | 38.5      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,806.1                | 1,459.0                 | 347.02                    | 5.204             | CC, ES, SF                         |
| 9,800.0                                                                 | 8,037.0               | 8,052.2               | 8,037.0               | 40.1      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,808.1                | 1,460.7                 | 347.36                    | 5.205             |                                    |
| 9,900.0                                                                 | 8,037.0               | 8,052.2               | 8,037.0               | 42.0      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,815.5                | 1,467.8                 | 347.75                    | 5.221             |                                    |
| 10,000.0                                                                | 8,037.0               | 8,052.2               | 8,037.0               | 43.9      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,828.5                | 1,480.3                 | 348.13                    | 5.252             |                                    |
| 10,100.0                                                                | 8,037.0               | 8,052.2               | 8,037.0               | 45.8      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,846.7                | 1,498.2                 | 348.49                    | 5.299             |                                    |
| 10,200.0                                                                | 8,037.0               | 8,052.2               | 8,037.0               | 47.8      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,870.1                | 1,521.3                 | 348.82                    | 5.361             |                                    |
| 10,300.0                                                                | 8,037.0               | 8,052.2               | 8,037.0               | 49.7      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,898.5                | 1,549.4                 | 349.13                    | 5.438             |                                    |
| 10,400.0                                                                | 8,037.0               | 8,052.2               | 8,037.0               | 51.6      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,931.7                | 1,582.3                 | 349.41                    | 5.528             |                                    |
| 10,500.0                                                                | 8,037.0               | 8,052.2               | 8,037.0               | 53.6      | 245.4  | 90.00                 | -1,635.0              | 1,595.6      | 1,969.4                | 1,619.7                 | 349.66                    | 5.632             |                                    |

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

# ConocoPhillips

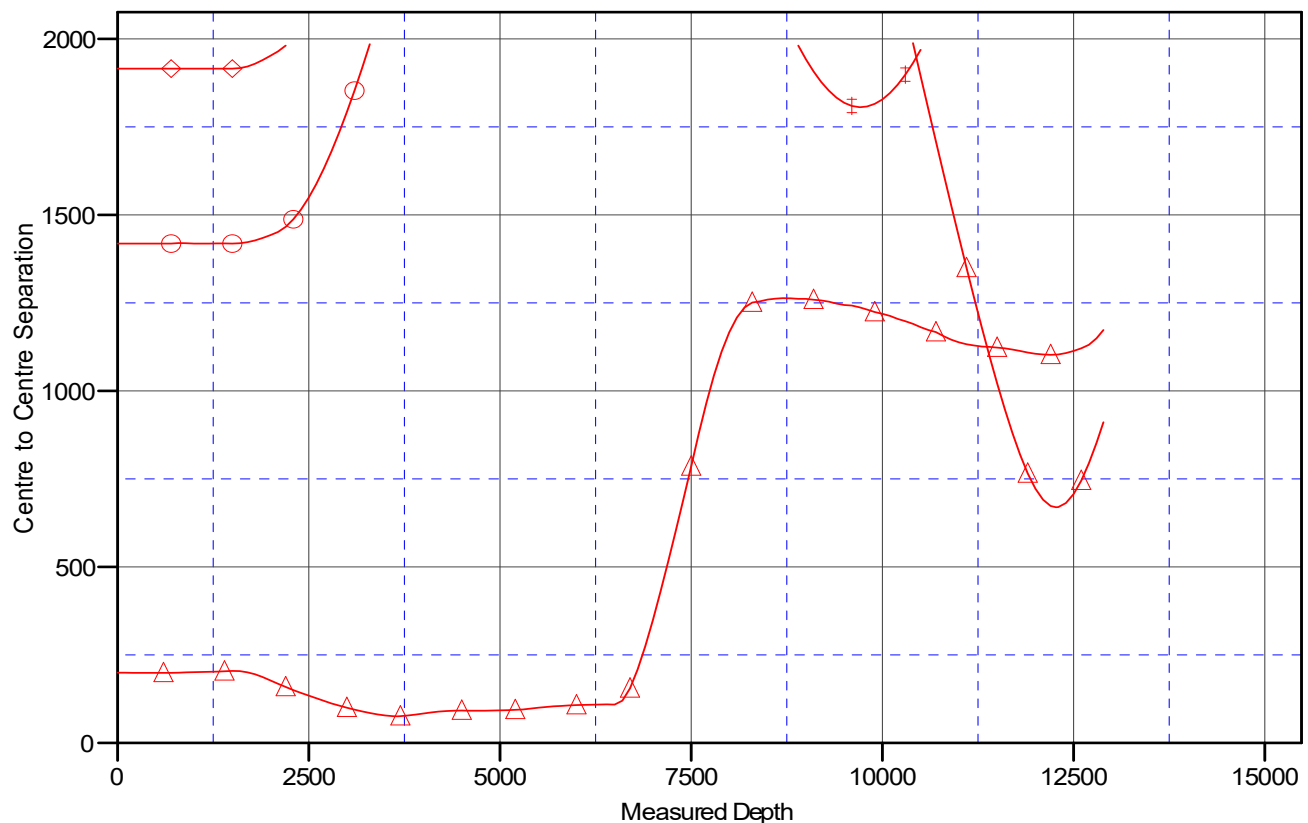
## Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

Reference Depths are relative to WELL @ 3553.0usft (Original Well Ele)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: \*MAN STATE #502H  
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
 Grid Convergence at Surface is: 0.07°

### Ladder Plot



### LEGEND

MAN STATE #1 (P&A), OWB, AWP V0  
 RESLER-YATES STATE #376 OWB, AWP V0  
 STATE BU #1 (T&A), OWB, AWP V0

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

# ConocoPhillips

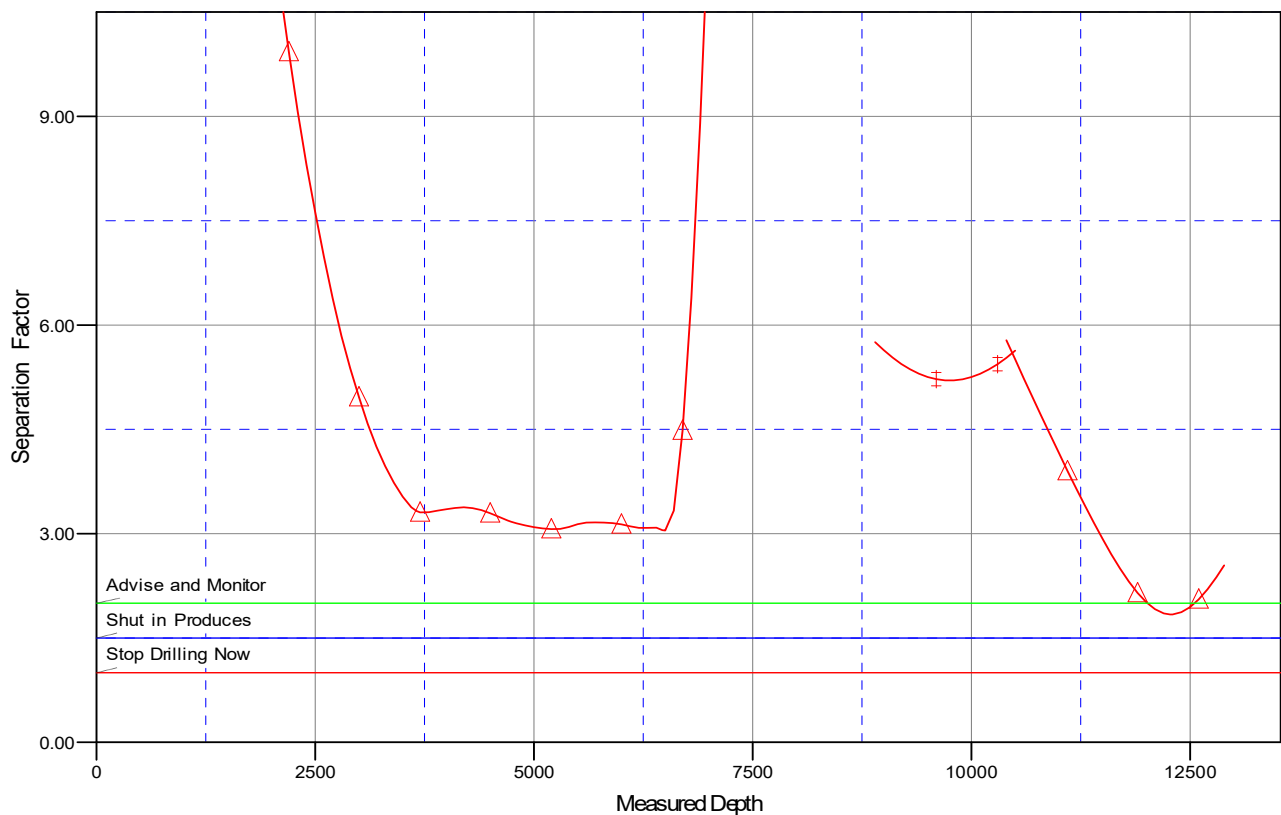
## Anticollision Report

|                           |                     |                                     |                                        |
|---------------------------|---------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | DELAWARE BASIN WEST | <b>Local Co-ordinate Reference:</b> | Well *MAN STATE #502H                  |
| <b>Project:</b>           | EDDY COUNTY (DBW)   | <b>TVD Reference:</b>               | WELL @ 3553.0usft (Original Well Elev) |
| <b>Reference Site:</b>    | MAN STATE PROJECT   | <b>MD Reference:</b>                | WELL @ 3553.0usft (Original Well Elev) |
| <b>Site Error:</b>        | 0.0 usft            | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | *MAN STATE #502H    | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 3.0 usft            | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OWB                 | <b>Database:</b>                    | Central Planning Prod                  |
| <b>Reference Design:</b>  | PWP0                | <b>Offset TVD Reference:</b>        | Reference Datum                        |

Reference Depths are relative to WELL @ 3553.0usft (Original Well Ele  
Offset Depths are relative to Offset Datum  
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: \*MAN STATE #502H  
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
Grid Convergence at Surface is: 0.07°

### Separation Factor Plot



### LEGEND

MAN STATE #1 (P&A), OWB, AWP V0  
 MAN STATE #2H, OWB, AWP V0
 RESER-VATES STATE #376 OWB, AWP V0  
 STATE 647 #224, OWB, AWP V0
 STATE BU #1 (T&A), OWB, AWP V0

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



Project: EDDY COUNTY (DBW)  
Site: MAN STATE PROJECT  
Well: \*MAN STATE #502H  
Wellbore: OWB  
Design: PWP0  
GL: 3553.0  
WELL @ 3553.0usft (Original Well Elev)

| WELL DETAILS: *MAN STATE #502H |       |           |           |                  |                   |
|--------------------------------|-------|-----------|-----------|------------------|-------------------|
| +N/-S                          | +E/-W | Northing  | Easting   | Latitude         | Longitude         |
| 0.0                            | 0.0   | 619432.01 | 539682.47 | 32° 42' 10.260 N | 104° 12' 15.586 W |

| DESIGN TARGET DETAILS  |        |       |        |           |           |
|------------------------|--------|-------|--------|-----------|-----------|
| Name                   | TVD    | +N/-S | +E/-W  | Northing  | Easting   |
| PP (MAN STATE #502H)   | 6500.0 | 146.1 | -290.9 | 619578.06 | 539391.55 |
| FTP (MAN STATE #502H)  | 8037.0 | 146.1 | -290.9 | 619578.06 | 539391.55 |
| LTP (MAN STATE #502H)  | 8037.0 | 212.5 | 4696.6 | 619644.53 | 544379.06 |
| PBHL (MAN STATE #502H) | 8037.0 | 213.2 | 4746.6 | 619645.18 | 544429.06 |

| SECTION DETAILS |       |        |        |       |        |       |        |        |
|-----------------|-------|--------|--------|-------|--------|-------|--------|--------|
| MD              | Inc   | Azi    | TVD    | +N/-S | +E/-W  | Dleg  | TFace  | VSect  |
| 0.0             | 0.00  | 0.00   | 0.0    | 0.0   | 0.0    | 0.00  | 0.00   | 0.0    |
| 1500.0          | 0.00  | 0.00   | 1500.0 | 0.0   | 0.0    | 0.00  | 0.00   | 0.0    |
| 1882.1          | 7.64  | 296.66 | 1881.0 | 11.4  | -22.7  | 2.00  | 296.66 | -22.2  |
| 3755.8          | 7.64  | 296.66 | 3738.0 | 123.2 | -245.4 | 0.00  | 0.00   | -239.7 |
| 4520.0          | 0.00  | 0.00   | 4500.0 | 146.1 | -290.9 | 1.00  | 180.00 | -284.1 |
| 7579.5          | 0.00  | 0.00   | 7559.5 | 146.1 | -290.9 | 0.00  | 0.00   | -284.1 |
| 8329.5          | 90.00 | 89.24  | 8037.0 | 152.4 | 186.5  | 12.00 | 89.24  | 193.1  |
| 12890.0         | 90.00 | 89.24  | 8037.0 | 213.2 | 4746.6 | 0.00  | 0.00   | 4751.4 |

