

**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 250907

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

|                                                                                                      |  |                               |
|------------------------------------------------------------------------------------------------------|--|-------------------------------|
| 1. Operator Name and Address<br>MARATHON OIL PERMIAN LLC<br>5555 San Felipe St.<br>Houston, TX 77056 |  | 2. OGRID Number<br>372098     |
| 4. Property Code<br>321205                                                                           |  | 3. API Number<br>30-015-44889 |
| 5. Property Name<br>APOLLO FEE 23 28 4 WA                                                            |  | 6. Well No.<br>005H           |

**7. Surface Location**

|          |         |          |       |         |           |          |           |          |        |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| M        | 4       | 23S      | 28E   | M       | 375       | S        | 260       | W        | Eddy   |

**8. Proposed Bottom Hole Location**

|          |         |          |       |         |           |          |           |          |        |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| P        | 4       | 23S      | 28E   | P       | 330       | S        | 330       | E        | Eddy   |

**9. Pool Information**

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

**Additional Well Information**

|                           |                             |                                        |                           |                                    |
|---------------------------|-----------------------------|----------------------------------------|---------------------------|------------------------------------|
| 11. Work Type<br>New Well | 12. Well Type<br>GAS        | 13. Cable/Rotary                       | 14. Lease Type<br>Private | 15. Ground Level Elevation<br>3015 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>14262 | 18. Formation<br>Wolfcamp              | 19. Contractor            | 20. Spud Date<br>5/10/2018         |
| Depth to Ground water     |                             | Distance from nearest fresh water well |                           | Distance to nearest surface water  |

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

**21. Proposed Casing and Cement Program**

| Type   | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|--------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf   | 17.5      | 13.375      | 54.5             | 450           | 470             | 0             |
| Int1   | 12.25     | 9.625       | 36               | 2500          | 742             | 0             |
| Prod   | 8.75      | 7           | 29               | 9950          | 870             | 0             |
| Liner1 | 6.125     | 4.5         | 13.5             | 14262         | 542             | 8850          |

**Casing/Cement Program: Additional Comments**

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

**22. Proposed Blowout Prevention Program**

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

|                                                                                                                                                                                                                                                                                                                      |                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|
| 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.<br><br>Signature: | <b>OIL CONSERVATION DIVISION</b>                         |
| Printed Name: Electronically filed by Melissa Szudera                                                                                                                                                                                                                                                                | Approved By: Raymond Podany                              |
| Title: Regulatory Compliance Representative                                                                                                                                                                                                                                                                          | Title: Geologist                                         |
| Email Address: mszudera@marathonoil.com                                                                                                                                                                                                                                                                              | Approved Date: 4/18/2018      Expiration Date: 4/18/2020 |
| Date: 4/18/2018      Phone: 701-260-7272                                                                                                                                                                                                                                                                             | Conditions of Approval Attached                          |



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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
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**Santa Fe, NM 87505**

Form APD Comments

Permit 250907

**PERMIT COMMENTS**

|                                                                                                             |                                                      |                                      |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------------|
| Operator Name and Address:<br>MARATHON OIL PERMIAN LLC [372098]<br>5555 San Felipe St.<br>Houston, TX 77056 |                                                      | API Number:<br>30-015-44889          |
|                                                                                                             |                                                      | Well:<br>APOLLO FEE 23 28 4 WA #005H |
| Created By                                                                                                  | Comment                                              | Comment Date                         |
| acovarrubias                                                                                                | FTP - 330' FSL * 330' FWL; 32.3280454, - 104.0999834 | 4/10/2018                            |
| acovarrubias                                                                                                | GCP, C-102, and Directional will be sent via email.  | 4/10/2018                            |

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Form APD Conditions  
  
Permit 250907

**PERMIT CONDITIONS OF APPROVAL**

|                                                                                                             |                                                                                     |                                      |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------|
| Operator Name and Address:<br>MARATHON OIL PERMIAN LLC [372098]<br>5555 San Felipe St.<br>Houston, TX 77056 |                                                                                     | API Number:<br>30-015-44889          |
|                                                                                                             |                                                                                     | Well:<br>APOLLO FEE 23 28 4 WA #005H |
| OCD Reviewer                                                                                                | Condition                                                                           |                                      |
| rpodany                                                                                                     | Will require a directional survey with the C-104                                    |                                      |
| rpodany                                                                                                     | Cement is required to circulate on both surface and intermediate1 strings of casing |                                      |