

**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 250338

**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>321146                                                                           |  | 3. API Number<br>30-015-44832 |
| 5. Property Name<br>SOUTHERN COMFORT STATE 24 28 25 TB                                               |  | 6. Well No.<br>006H           |

**7. Surface Location**

|               |               |                 |              |              |                   |               |                   |               |                |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|-------------------|---------------|----------------|
| UL - Lot<br>J | Section<br>25 | Township<br>24S | Range<br>28E | Lot Idn<br>J | Feet From<br>2424 | N/S Line<br>S | Feet From<br>1777 | E/W Line<br>E | County<br>Eddy |
|---------------|---------------|-----------------|--------------|--------------|-------------------|---------------|-------------------|---------------|----------------|

**8. Proposed Bottom Hole Location**

|               |               |                 |              |              |                  |               |                  |               |                |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|----------------|
| UL - Lot<br>P | Section<br>36 | Township<br>24S | Range<br>28E | Lot Idn<br>P | Feet From<br>330 | N/S Line<br>S | Feet From<br>995 | E/W Line<br>E | County<br>Eddy |
|---------------|---------------|-----------------|--------------|--------------|------------------|---------------|------------------|---------------|----------------|

**9. Pool Information**

|                         |       |
|-------------------------|-------|
| WILLOW LAKE;BONE SPRING | 64450 |
|-------------------------|-------|

**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>2919 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>17015 | 18. Formation<br>Bone Spring           | 19. Contractor          | 20. Spud Date<br>4/2/2018          |
| 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             | 400           | 412             | 0             |
| Int1 | 12.25     | 9.625       | 36               | 2650          | 786             | 0             |
| Prod | 8.75      | 5.5         | 20               | 17015         | 3304            | 0             |

**Casing/Cement Program: Additional Comments**

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

**22. Proposed Blowout Prevention Program**

| Type       | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Annular    | 5000             | 2500          | Shaffer      |
| Double Ram | 10000            | 5000          | 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: 3/30/2018      Expiration Date: 3/30/2020 |
| Date: 3/27/2018      Phone: 701-260-7272                                                                                                                                                                                                                                                                             | Conditions of Approval Attached                          |



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

Form APD Comments  
  
Permit 250338

**PERMIT COMMENTS**

|                                                                                                             |                                                   |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Operator Name and Address:<br>MARATHON OIL PERMIAN LLC [372098]<br>5555 San Felipe St.<br>Houston, TX 77056 | API Number:<br>30-015-44832                       |
|                                                                                                             | Well:<br>SOUTHERN COMFORT STATE 24 28 25 TB #006H |

|            |         |              |
|------------|---------|--------------|
| Created By | Comment | Comment Date |
|------------|---------|--------------|

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Form APD Conditions

Permit 250338

**PERMIT CONDITIONS OF APPROVAL**

|                                   |                                                                                     |                                          |
|-----------------------------------|-------------------------------------------------------------------------------------|------------------------------------------|
| Operator Name and Address:        |                                                                                     | API Number:                              |
| MARATHON OIL PERMIAN LLC [372098] |                                                                                     | 30-015-44832                             |
| 5555 San Felipe St.               |                                                                                     | Well:                                    |
| Houston, TX 77056                 |                                                                                     | SOUTHERN COMFORT STATE 24 28 25 TB #006H |
| 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 |                                          |