

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-8161 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) 334-8178 Fax:(505) 334-8170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3482

**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 192904

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

|                                                                                               |  |                               |
|-----------------------------------------------------------------------------------------------|--|-------------------------------|
| 1. Operator Name and Address<br>APACHE CORP<br>303 Veterans Airpark Lane<br>Midland, TX 79705 |  | 2. OGRID Number<br>873        |
| 4. Property Code<br>313597                                                                    |  | 3. API Number<br>30-015-42678 |
| 5. Property Name<br>RANGER STATE                                                              |  | 6. Well No.<br>011            |

**7. Surface Location**

|          |   |         |    |          |     |       |     |         |           |      |          |   |           |     |          |   |        |      |
|----------|---|---------|----|----------|-----|-------|-----|---------|-----------|------|----------|---|-----------|-----|----------|---|--------|------|
| UL - Lot | I | Section | 31 | Township | 17S | Range | 28E | Lot Idn | Feet From | 1535 | N/S Line | S | Feet From | 760 | E/W Line | E | County | Eddy |
|----------|---|---------|----|----------|-----|-------|-----|---------|-----------|------|----------|---|-----------|-----|----------|---|--------|------|

**8. Proposed Bottom Hole Location**

|          |   |         |    |          |     |       |     |         |   |           |      |          |   |           |     |          |   |        |      |
|----------|---|---------|----|----------|-----|-------|-----|---------|---|-----------|------|----------|---|-----------|-----|----------|---|--------|------|
| UL - Lot | I | Section | 31 | Township | 17S | Range | 28E | Lot Idn | I | Feet From | 1650 | N/S Line | S | Feet From | 990 | E/W Line | E | County | Eddy |
|----------|---|---------|----|----------|-----|-------|-----|---------|---|-----------|------|----------|---|-----------|-----|----------|---|--------|------|

**9. Pool Information**

|                            |       |
|----------------------------|-------|
| ARTESIA; GLORIETA-YESO (O) | 96830 |
|----------------------------|-------|

**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>3774 |
| 16. Multiple<br>N         | 17. Proposed Depth<br>5300 | 18. Formation<br>Yeso                  | 19. Contractor          | 20. Spud Date                      |
| 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 | 11        | 8.625       | 24               | 400           | 200             |               |
| Prod | 7.875     | 5.5         | 17               | 5300          | 700             |               |

**Casing/Cement Program: Additional Comments**

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

**22. Proposed Blowout Prevention Program**

| Type   | Working Pressure | Test Pressure | Manufacturer |
|--------|------------------|---------------|--------------|
| Hydril | 3000             | 2000          |              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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: _____<br>Printed Name: Electronically filed by Bobby Smith<br>Title: _____<br>Email Address: bobby.smith@apachecorp.com<br>Date: 9/24/2014 | <div style="text-align: center;"><b>OIL CONSERVATION DIVISION</b></div> Approved By: Randy Dade<br>Title: District Supervisor<br>Approved Date: 9/25/2014<br>Expiration Date: 9/25/2016<br>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

|                                 |                                             |                                              |
|---------------------------------|---------------------------------------------|----------------------------------------------|
| 'API Number<br><b>30-015</b>    | 'Pool Code<br><b>96830</b>                  | 'Pool Name<br><b>Artesia - Gloria - Yeso</b> |
| 'Property Code<br><b>313597</b> | 'Property Name<br><b>RANGER STATE</b>       | 'Well Number<br><b>#11</b> ✓                 |
| 'GRID No.<br><b>873</b>         | 'Operator Name<br><b>APACHE CORPORATION</b> | 'Elevation<br><b>3773.913</b>                |

" Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 9             | 31      | 17 S     | 28 E  |         | 1535          | SOUTH            | 760           | EAST           | EDDY   |

" 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 |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 9             | 31      | 17 S     | 28 E  |         | 1650          | SOUTH            | 990           | EAST           | EDDY   |

| "Dedicated Acres | "Joint or Infill | "Consolidation Code | "Order No. |
|------------------|------------------|---------------------|------------|
| <b>40</b>        |                  |                     |            |

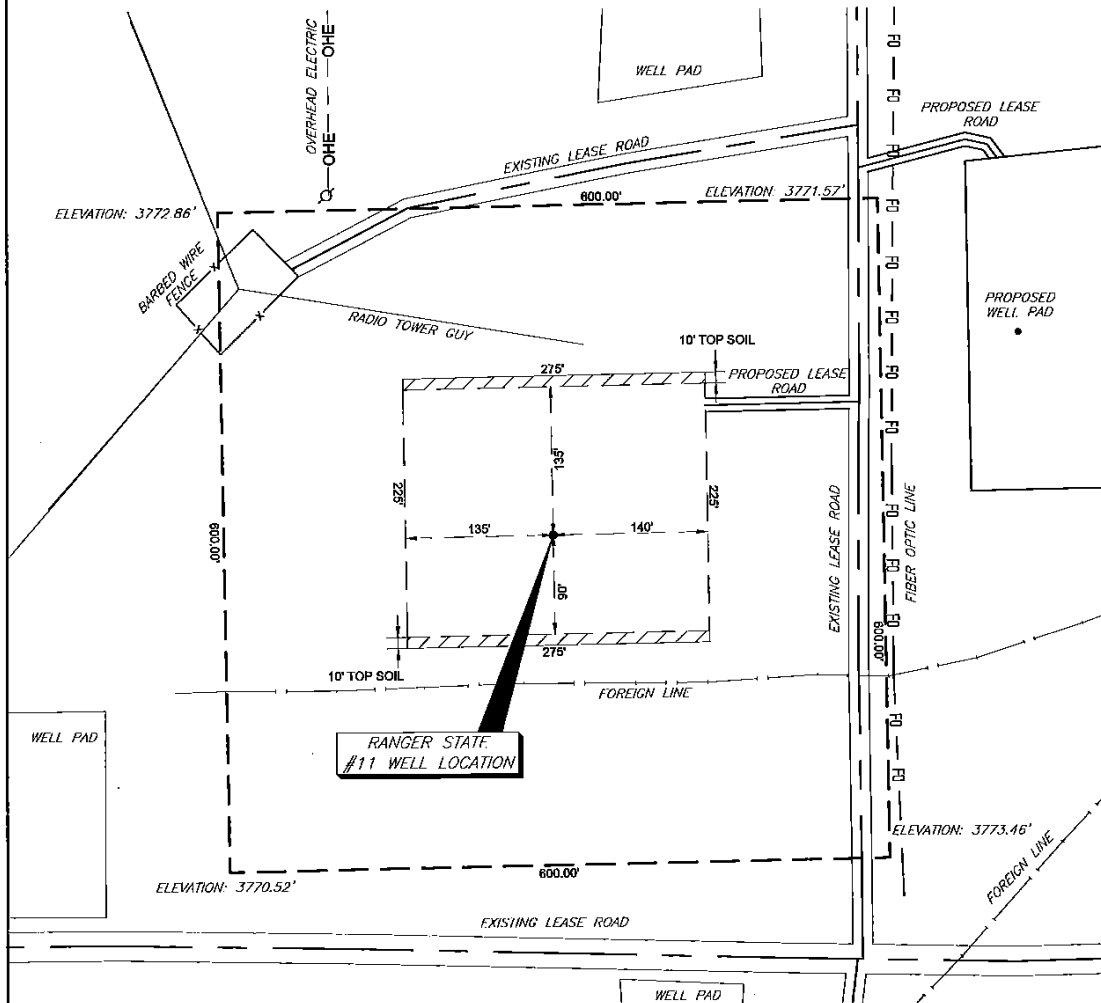
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SECTION 31, TOWNSHIP 17 SOUTH, RANGE 28 EAST P.M.

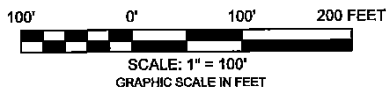
| <p>FOUND 3 INCH IRON PIPE MARKED "U.S. GENERAL LAND OFFICE"</p> <p>LAT: 32.797505 N<br/>LONG: -104.223010 W<br/>NUSPCE N: 653861.053<br/>NUSPCE E: 533900.246<br/>(N.A.D. 83)</p>                                                                                                                                                                                                                       | <p>FOUND 3 INCH IRON PIPE MARKED "U.S. GENERAL LAND OFFICE"</p> <p>LAT: 32.797591 N<br/>LONG: -104.205840 W<br/>NUSPCE N: 653854.896<br/>NUSPCE E: 533913.677<br/>(N.A.D. 83)</p> | <p>" OPERATOR CERTIFICATION</p> <p>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 undivided 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.</p> <p><i>Michelle Cooper</i> 9-23-14<br/>Signature Date</p> <p><i>Michelle Cooper</i><br/>Printed Name</p> <p><i>michelle.cooper@apachecorp.com</i><br/>E-mail Address</p> |          |          |    |              |        |                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----|--------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>SURFACE HOLE TO BOTTOM HOLE LOCATION DEMONSTRATION</p> <table border="1"> <tr> <th>LINE</th> <th>BEARINGS</th> <th>DISTANCE</th> </tr> <tr> <td>L1</td> <td>7163°40'25"W</td> <td>258.48</td> </tr> </table>                                                                                                                                                                                         |                                                                                                                                                                                   | LINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | BEARINGS | DISTANCE | L1 | 7163°40'25"W | 258.48 | <p>SURFACE LOCATION</p> <p>DD LAT: 32.787004 N<br/>DD LONG: -104.208148 W<br/>DMS LAT: 32°47'13.935" N<br/>DMS LONG: 104°12'59.335" W<br/>NUSPCE N: 650118.694<br/>NUSPCE E: 538471.379<br/>(N.A.D. 83)</p> <p>DD LAT: 32.78711920 N<br/>DD LONG: -104.2086105 W<br/>DMS LAT: 32°47'14.348" N<br/>DMS LONG: 104°12'51.179" W<br/>NUSPCE N: 650181.562<br/>NUSPCE E: 538550.549<br/>(N.A.D. 83)</p> |
| LINE                                                                                                                                                                                                                                                                                                                                                                                                    | BEARINGS                                                                                                                                                                          | DISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |          |    |              |        |                                                                                                                                                                                                                                                                                                                                                                                                    |
| L1                                                                                                                                                                                                                                                                                                                                                                                                      | 7163°40'25"W                                                                                                                                                                      | 258.48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |          |    |              |        |                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>BOTTOM HOLE LOCATION</p> <p>DD LAT: 32.787520 N<br/>DD LONG: -104.208902 W<br/>DMS LAT: 32°47'15.023" N<br/>DMS LONG: 104°12'52.049" W<br/>NUSPCE N: 650213.329<br/>NUSPCE E: 538236.621<br/>(N.A.D. 83)</p> <p>DD LAT: 32.78763515 N<br/>DD LONG: -104.20841476 W<br/>DMS LAT: 32°47'15.486" N<br/>DMS LONG: 104°12'33.893" W<br/>NUSPCE N: 650296.237<br/>NUSPCE E: 537918.792<br/>(N.A.D. 83)</p> |                                                                                                                                                                                   | <p>"SURVEYOR CERTIFICATION</p> <p>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.</p> <p>7-15-2014<br/>Date of Survey</p> <p>Signature and Seal of Professional Surveyor<br/><i>Jeffrey E. Hudson</i><br/>20559<br/>PROFESSIONAL SURVEYOR</p>                                                                                                                                                                                                                                                                                                             |          |          |    |              |        |                                                                                                                                                                                                                                                                                                                                                                                                    |
| <p>FOUND 3 INCH IRON PIPE MARKED "U.S. GENERAL LAND OFFICE"</p> <p>LAT: 32.787982 N<br/>LONG: -104.222928 W<br/>NUSPCE N: 648577.700<br/>NUSPCE E: 533931.444<br/>(N.A.D. 83)</p>                                                                                                                                                                                                                       | <p>FOUND 100 D SPIKE NAIL</p> <p>LAT: 32.787095 N<br/>LONG: -104.205803 W<br/>NUSPCE N: 648584.877<br/>NUSPCE E: 539254.839<br/>(N.A.D. 83)</p>                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |          |    |              |        |                                                                                                                                                                                                                                                                                                                                                                                                    |

# EDDY COUNTY, NEW MEXICO

SECTION NINE (31), TOWNSHIP SEVENTEEN (17) SOUTH,  
RANGE TWENTY-EIGHT (28) EAST OF THE PRINCIPAL MERIDIAN



| COORDINATE TABLE                                           |                      |                       |                      |                       |
|------------------------------------------------------------|----------------------|-----------------------|----------------------|-----------------------|
| WELL NAME                                                  | NORTHING (N.A.D. 27) | EASTING (N.A.D. 27)   | NORTHING (N.A.D. 83) | EASTING (N.A.D. 83)   |
| RANGER WELL #11<br>SURFACE LOCATION<br>& PENETRATION POINT | 650118.654           | 538471.379            | 650181.562           | 579650.549            |
| ELEVATION                                                  | LATITUDE (N.A.D. 27) | LONGITUDE (N.A.D. 27) | LATITUDE (N.A.D. 83) | LONGITUDE (N.A.D. 83) |
| 3,773.913'                                                 | 32.787204 N          | -104.208148 W         | 32.78731920 N        | -104.20856105 W       |



PREPARED FROM SURVEY  
DATED: JULY 11, 2014

## NOTES:

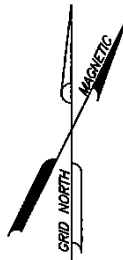
1) BEARINGS & COORDINATES SHOWN HEREON ARE REFERENCED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, N.A.D. 27 & 83 DATUM (NEW MEXICO EAST ZONE) DERIVED FROM GPS OBSERVATIONS AND ARE BASED REFERENCE STATIONS - "E 148" - BALJANAR NC (1986)

2) LATITUDE & LONGITUDE ARE NAD 83 & 27 GEOGRAPHIC.

3) THIS IS AN WELL PLAT AND DOES NOT REPRESENT A TRUE BOUNDARY SURVEY. THIS SURVEY IS BASED ON OWNERSHIP AND EASEMENT INFORMATION PROVIDED BY APACHE CORPORATION. SURVEYOR DID NOT ABSTRACT SUBJECT TRACT AND THERE MAY BE EASEMENTS OR OTHER ENCUMBRANCES THAT AFFECT THE SUBJECT TRACT THAT ARE NOT SHOWN HEREON.



8205 Camp Bowie West, Suite 204  
Fort Worth, Texas 76116  
(817) 366-0362 - Fax (862) 224-3377



THE RANGER WELL #11 IS LOCATED APPROXIMATELY  
12 MILES NORTH-NORTHWEST OF  
ARTESIA, NEW MEXICO

# Apache

Location of

RANGER WELL #11

Surface Location & Penetration Point: 1635' FSL & 780' FEL

Section 31, Township 17 South, Range 28 East of P.M.

Eddy County, New Mexico

|                  |               |                             |      |
|------------------|---------------|-----------------------------|------|
| DRAWN BY: K.N.   | DATE: 8-11-14 | DWG. NO.                    | REV. |
| CHECKED BY: P.W. | DATE: 8-11-14 | RANGER #11<br>WELL LOCATION | 0    |
| SCALE: 1" = 100' | APP.          | PAGE 1 OF 1                 |      |

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

Form APD Comments  
 Permit 192904

**PERMIT COMMENTS**

|                                                                                                   |          |                             |
|---------------------------------------------------------------------------------------------------|----------|-----------------------------|
| Operator Name and Address:<br>APACHE CORP [873]<br>303 Veterans Airpark Lane<br>Midland, TX 79705 |          | API Number:<br>30-015-42678 |
|                                                                                                   |          | Well:<br>RANGER STATE #011  |
| Created By                                                                                        | Comment  | Comment Date                |
| CSHAPARD                                                                                          | Land p/S | 9/24/2014                   |

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Form APD Conditions

Permit 192904

**PERMIT CONDITIONS OF APPROVAL**

|                                                                                                   |                                                                                                                                                                                                                                                                      |                             |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Operator Name and Address:<br>APACHE CORP [873]<br>303 Veterans Airpark Lane<br>Midland, TX 79705 |                                                                                                                                                                                                                                                                      | API Number:<br>30-015-42678 |
|                                                                                                   |                                                                                                                                                                                                                                                                      | Well:<br>RANGER STATE #011  |
| OCD Reviewer                                                                                      | Condition                                                                                                                                                                                                                                                            |                             |
| CSHAPARD                                                                                          | 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 |                             |