

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMLC029435A

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Otherb. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.  
Other2. Name of Operator  
APACHE CORPContact: ISABEL HUDSON  
E-Mail: Isabel.Hudson@apachecorp.com3. Address 303 VETERANS AIRPARK LANE SUITE 1000  
MIDLAND, TX 797053a. Phone No. (include area code)  
Ph: 432-818-11428. Lease Name and Well No.  
RAVEN FEDERAL 17H9. API Well No.  
30-015-40914

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface NENE 662FNL 1000FEL

At top prod interval reported below NENE 659FNL 334FWL

At total depth NENE 659FNL 334FWL

10. Field and Pool, or Exploratory  
CEDARLAKE, GLORIETA-YESO11. Sec., T., R., M., or Block and Survey  
or Area Sec 7 T17S R31E Mer12. County or Parish  
EDDY13. State  
NM14. Date Spudded  
05/11/201515. Date T.D. Reached  
05/25/201516. Date Completed  
☐ D & A ☐ Ready to Prod.  
12/22/201517. Elevations (DF, KB, RT, GL)\*  
3746 GL18. Total Depth: MD 8772  
TVD 532619. Plug Back T.D.: MD 8772  
TVD 532920. Depth Bridge Plug Set: MD  
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
CNL/CBL/GR22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit analysis)  
Directional Survey? ☐ No ☒ Yes (Submit analysis)

## 23. Casing and Liner Record (Report all strings set in well)

| Hole Size | Size/Grade  | Wt. (#/ft.) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sk. & Type of Cement | Slurry Vol. (BBL) | Cement Top* | Amount Pulled |
|-----------|-------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 17.500    | 13.375 H-40 | 48.0        | 0        | 415         |                      | 400                         |                   | 0           |               |
| 12.250    | 9.625 J-55  | 40.0        | 0        | 3512        |                      | 1400                        |                   | 0           |               |
| 8.500     | 7.000 L-80  | 29.0        | 0        | 4900        |                      | 750                         |                   | 120         |               |
|           |             |             |          |             |                      |                             |                   |             |               |
|           |             |             |          |             |                      |                             |                   |             |               |
|           |             |             |          |             |                      |                             |                   |             |               |
|           |             |             |          |             |                      |                             |                   |             |               |
|           |             |             |          |             |                      |                             |                   |             |               |
|           |             |             |          |             |                      |                             |                   |             |               |

## 24. Tubing Record

| Size  | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|-------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2.875 | 5444           |                   |      |                |                   |      |                |                   |

## 25. Producing Intervals

| Formation   | Top  | Bottom | Perforated Interval | Size | No. Holes | Perf. Status          |
|-------------|------|--------|---------------------|------|-----------|-----------------------|
| A) BLINEBRY | 5250 | 8772   | 5767 TO 8758        |      |           | PRODUCING - OPEN HOLE |
| B)          |      |        |                     |      |           |                       |
| C)          |      |        |                     |      |           |                       |
| D)          |      |        |                     |      |           |                       |

## 26. Perforation Record

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

| Depth Interval | Amount and Type of Material                              |
|----------------|----------------------------------------------------------|
| 5767 TO 8758   | TOTAL ACID VOLUME = 1,892 BBLS / TOTAL SAND = 2'054,180# |
|                |                                                          |
|                |                                                          |
|                |                                                          |

## 28. Production - Interval A

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method        |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|--------------------------|
| 12/22/2015          | 01/15/2016           | 24           | →               | 1027.0  | 562.0   | 1450.0    |                       |             | ELECTRIC PUMP SUBSURFACE |
| Choke Size          | Tbg. Press. Flwg. St | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                          |
|                     |                      |              | →               |         |         |           | 547                   | POW         |                          |

  

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. St | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

## 28a. Production - Interval B

| Date First Produced | Test Date            | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|----------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                      |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press. Flwg. St | Csg. Press.  | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio         | Well Status |                   |
|                     |                      |              | →               |         |         |           |                       |             |                   |

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #329067 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

Reclamation due: 06/22/2016

## 28b. Production - Interval C

| Date First Produced | Test Date           | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|---------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                     |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press Flwg. SI | Csg. Press   | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas Oil Ratio         | Well Status |                   |
|                     |                     |              | →               |         |         |           |                       |             |                   |

## 28c. Production - Interval D

| Date First Produced | Test Date           | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr. API | Gas Gravity | Production Method |
|---------------------|---------------------|--------------|-----------------|---------|---------|-----------|-----------------------|-------------|-------------------|
|                     |                     |              | →               |         |         |           |                       |             |                   |
| Choke Size          | Tbg. Press Flwg. SI | Csg. Press   | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas Oil Ratio         | Well Status |                   |
|                     |                     |              | →               |         |         |           |                       |             |                   |

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

| Formation    | Top  | Bottom | Descriptions, Contents, etc. | Name         | Top Meas. Depth |
|--------------|------|--------|------------------------------|--------------|-----------------|
| RUSTLER      | 327  | 493    | ANHYDRITE, DOLOMITE W        | RUSTLER      | 327             |
| SALADO       | 493  | 1400   | ANHYDRITE, DOLOMITE W        | SALADO       | 493             |
| TANSIL       | 1400 | 1562   | ANHYDRITE/SALT/DOLO/SS O/G/W | TANSIL       | 1400            |
| YATES        | 1562 | 1832   | SANDSTONE O/G/W              | YATES        | 1562            |
| SEVEN RIVERS | 1832 | 2452   | SANDSTONE, DOLO, LIME O/G/W  | SEVEN RIVERS | 1832            |
| QUEEN        | 2452 | 2867   | SANDSTONE, DOLO, LIME O/G/W  | QUEEN        | 2452            |
| GRAYBURG     | 2867 | 3178   | DOLO, LIME, SANDSTONE O/G/W  | GRAYBURG     | 2867            |
| SAN ANDRES   | 3178 | 4627   | DOLO, LIME, SANDSTONE O/G/W  | SAN ANDRES   | 3178            |

## 32. Additional remarks (include plugging procedure):

Glorieta 4627 4702 Sandstone O/G/W  
Paddock 4702 5250 Dolomite O/G/W  
Blinebry 5250 TD Dolomite O/G/W

## 33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7. Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #329067 Verified by the BLM Well Information System.  
For APACHE CORP, sent to the Carlsbad

Name (please print) ISABEL HUDSON

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 01/20/2016

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*