

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources

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

Form C-104  
Revised August 1, 2011

NOV 14 2014

Submit one copy to appropriate District Office

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☐ AMENDED REPORT**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

<sup>1</sup> Operator name and Address Apache Corporation 303 Veterans Airpark Lane Suite 1000 Midland TX 79705		<sup>2</sup> OGRID Number 873
		<sup>3</sup> Reason for Filing Code/ Effective Date NW/09/19/2014
<sup>4</sup> API Number 30-015-42358	<sup>5</sup> Pool Name RED LAKE; GLORIETA-YESO, NORTHEAST	<sup>6</sup> Pool Code 96836
<sup>7</sup> Property Code 308703	<sup>8</sup> Property Name AAO FEDERAL	<sup>9</sup> Well Number 028

**II. <sup>10</sup>Surface Location**

UL or lot no. N	Section 1	Township 18S	Range 27E	Lot Idn	Feet from the 183	North/South Line South	Feet from the 2497	East/West line West	County Eddy
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**<sup>11</sup>Bottom Hole Location**

UL or lot no. N	Section 1	Township 18S	Range 27E	Lot Idn	Feet from the 352	North/South line South	Feet from the 2287	East/West line West	County Eddy
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 09/19/2014	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

**III. Oil and Gas Transporters**

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G
<b>NM OIL CONSERVATION</b> ARTESIA DISTRICT NOV 24 2014 RECEIVED		

**IV. Well Completion Data**

<sup>21</sup> Spud Date 07/12/2014	<sup>22</sup> Ready Date 09/19/2014	<sup>23</sup> TD 4608'	<sup>24</sup> PBDT 4600'	<sup>25</sup> Perforations 3624'-4426'	<sup>26</sup> DHC, MC
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
17.5"	13.375"	365'	530 sx Class C		
7.875"	5.5"	4608'	850 sx Class C		
Tubing	2-7/8"	4490'			

**V. Well Test Data**

<sup>31</sup> Date New Oil 09/19/2014	<sup>32</sup> Gas Delivery Date 09/19/2014	<sup>33</sup> Test Date 10/18/2014	<sup>34</sup> Test Length 24 hrs	<sup>35</sup> Tbg. Pressure	<sup>36</sup> Csg. Pressure
<sup>37</sup> Choke Size	<sup>38</sup> Oil 83	<sup>39</sup> Water 411	<sup>40</sup> Gas 65		<sup>41</sup> Test Method P

<sup>42</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name:  
Paige Futrell

Title:  
Regulatory Analyst I

E-mail Address:  
Paige.Futrell@apachecorp.com

Date:  
11/06/2014

Phone:  
432-818-1893

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

HOBBS OCD

NOV 14 2014

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

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5. Lease Serial No.  
NMNM0557371

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

8. Well Name and No.  
AAO FEDERAL 28

9. API Well No.  
30-015-42358

10. Field and Pool, or Exploratory  
REDLAKE, GLORIETA-YESO, NE

11. County or Parish, and State  
EDDY COUNTY, NM

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator  
APACHE CORPORATION

Contact: PAIGE FUTRELL  
E-Mail: paige.futrell@apachecorp.com

3a. Address  
303 VETERANS AIRPARK LN  
MIDLAND, TX 79705

3b. Phone No. (include area code)  
Ph: 432-818-1893

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 1 T18S R27E SESW 183FSL 2497FWL  
32.769535 N Lat, 104.232413 W Lon

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Apache completed the well as followed: (RR: 07/18/2014)

07/25/2014: DO float collar & cmt to PBTD @4600'. Circ hole clean.  
07/28/2014: Run logs from PBTD@ 4600 to SF (CBL). TOC @surface.  
Perf Glorieta/Yeso @3624,43,74,3705,34,52,85,3803,28,48,66,3905,26  
53,94,4050,80,4114,34,52,94,4216,36,68,4318,36,60,4406,26. W/ 1 SPF  
30 holes.  
07/29/2014: Circ hole clean. Acidize Glorieta/Yeso @3624-4426, w/3500 gal 15%  
HCl Nefe Acid, 110 gal SCW-358 inhib & 55 gal CRW-172 corrosion  
inhib. Clean location. RDMOSU.  
08/08/2014: Frac Glorieta/Yeso: w/ 213,696 gal 20#, 3486 gal 10# gel, 286,601#  
16/30 sand, Pump pad, brown sand stages, siberprop sand stage &

NM OIL CONSERVATION  
ARTESIA DISTRICT

NOV 24 2014

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Accepted for record

APD NMOC D 12/18/14

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #274653 verified by the BLM Well Information System  
For APACHE CORPORATION, sent to the Carlsbad

Name (Printed/Typed) PAIGE FUTRELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/29/2014

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By \_\_\_\_\_  
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Pending BLM approvals will  
subsequently be reviewed  
and scanned

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 make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

**Additional data for EC transaction #274653 that would not fit on the form**

**32. Additional remarks, continued**

flush.

08/27/2014: MIRUSU NU BOP RIH w/ bailer. CO sand to PBTD @4600'

08/28/2014: RIH w/ 2-7/8" J-55, 6.5# prod tbg, SN@ 4466

EDT@ 4490.

08/29/2014: Waiting on rods.

09/08/2014: RIH w/pump and rods. Clean location. RDMOSU. Build wellhead & lay

flowline. Set 640 PU. Install elec. SI. wait on AAO FED batt to

produce well.

09/19/2014: Start production to AAO FED South Batt. POP.

NOV 24 2014

NOV 14 2014

Form 3160-4  
(August 2007)

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
NMNM0557371

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other  
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.  
Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator  
APACHE CORPORATION Contact: PAIGE FUTRELL  
E-Mail: paige.futrell@apachecorp.com

8. Lease Name and Well No.  
AAO FEDERAL 28

3. Address 303 VETERANS AIRPARK LN  
MIDLAND, TX 79705

3a. Phone No. (include area code)  
Ph: 432-818-1893

9. API Well No.  
30-015-42358

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

At surface SESW 183FSL 2497FWL 32.769535 N Lat, 104.232413 W Lon

At top prod interval reported below SESW 183FSL 2497FWL 32.769535 N Lat, 104.232413 W Lon

At total depth SESW 352FSL 2287FWL

10. Field and Pool, or Exploratory  
REDLAKE;GLORIETA-YESO,NE

11. Sec., T., R., M., or Block and Survey  
or Area Sec 1 T18S R27E Mer

12. County or Parish  
EDDY

13. State  
NM

14. Date Spudded  
07/12/2014

15. Date T.D. Reached  
07/17/2014

16. Date Completed  
☐ D & A ☒ Ready to Prod.  
09/19/2014

17. Elevations (DF, KB, RT, GL)\*  
3631 GL

18. Total Depth: MD 4608  
TVD

19. Plug Back T.D.: MD 4600  
TVD

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
HOSTILE NAT,BOREHOLE,HI-RES LL,COMP,NEUTRON3,CALIP

22. 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	365			530		0	
7.875	5.500 J-55	17.0	4608			850		0	

**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	4490							

**25. Producing Intervals**

**26. Perforation Record**

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA-YESO	3624	4426	3624 TO 4426	1.000	30	PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3624 TO 4426	3500 ACID, 286.601# SAND, 3486 GAL 10# GEL, 213.696 GAL 20#

**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
09/19/2014	10/18/2014	24	→	83.0	65.0	411.0	37.0		ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→				783	POW	

**28a. Production - Interval B**

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

Pending BLM approvals will  
subsequently be reviewed  
and scanned

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

ELECTRONIC SUBMISSION #276503 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

## 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
YATES	325	576	SHALE, SS*, ANHYDRITE/WATER	YATES	325
SEVEN RIVERS	576	942	SHALE, SS*, ANHYDRITE, DOL*/O, G, W	SEVEN RIVERS	576
GRAYBURG	1682	2034	DOL*, SS*, SANDSTONE/O, G, W*	GRAYBURG	1682
SAN ANDRES	2034	3618	DOLOMITE, CHERT/O, G, W*	SAN ANDRES	2034
GLORIETA	3618	3657	DOLOMITE, SANDSTONE/O, G, W*	GLORIETA	3618
YESO	3657	3735	DOLOMITE/ O, G, W	YESO	3657
PADDOCK	3735	4163	DOLOMITE/ O, G, W	PADDOCK	3735
BLINEBRY	4163		DOL*, SS*, SANDSTONE/O, G, W*	BLINEBRY	4163

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

Formation tops continued:

Water table-water formation above Yates-Not logged.  
Bowers SS: 942'-1187' Sandstone  
Queen: 1187'-1682' Siltstone, sandstone, anhydrite/Water.  
There is not a base salt.

## 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 #276503 Verified by the BLM Well Information System.  
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) PAIGE FUTRELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 11/06/2014

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 \*\*

**Additional data for transaction #276503 that would not fit on the form**

**32. Additional remarks, continued**

SS\*: Siltstone  
Dol\*: Dolomite  
O,G,W\*: Oil, Gas, Water

Attachments- Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 10/29/2014.