

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  
Submit one copy to appropriate District Office  
☐ 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 NM/09/23/2014
<sup>4</sup> API Number 30-015-42036	<sup>5</sup> Pool Name RED LAKE; GLORIETA-YESO, NORTHEAST <i>JES</i>	<sup>6</sup> Pool Code 96836
<sup>7</sup> Property Code 308703	<sup>8</sup> Property Name AAO FEDERAL	<sup>9</sup> Well Number 020

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

UL or lot no. E	Section 1	Township 18-S	Range 27-E	Lot Idn	Feet from the 2188	North/South Line NORTH	Feet from the 909	East/West line WEST	County EDDY
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<sup>11</sup> Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 09/23/2014	<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 OCT 16 2014  RECEIVED		

IV. Well Completion Data

<sup>21</sup> Spud Date 04/10/2014	<sup>22</sup> Ready Date 09/23/2014	<sup>23</sup> TD 4600'	<sup>24</sup> PBDT 4560'	<sup>25</sup> Perforations 3262'-4274'	<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	350'	530 sx Class C		
7.875	5.5	4600'	1080 sx Class C		
Tubing	2-7/8"	4358'			

V. Well Test Data

<sup>31</sup> Date New Oil 09/23/2014	<sup>32</sup> Gas Delivery Date 09/23/2014	<sup>33</sup> Test Date 10/08/2014	<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 39	<sup>39</sup> Water 336	<sup>40</sup> Gas 110		<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: <i>Paige Futrell</i>	OIL CONSERVATION DIVISION
Printed name: Paige Futrell	Approved by: <i>T. C. Shepard</i>
Title: Regulatory Analyst I	Title: "Geologist"
E-mail Address: Paige.Futrell@apachecorp.com	Approval Date: 10-22-2014
Date: 10/13/2014	Phone: 432-818-1893
Pending BLM approvals will subsequently be reviewed and scanned <i>105</i>	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.  
NMNM0557371

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
AAO FEDERAL 209. API Well No.  
30-015-4203610. Field and Pool, or Exploratory  
REDLAKE;GLORIETA-YESO,NE11. County or Parish, and State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator  
APACHE CORPORATIONContact: PAIGE FUTRELL  
E-Mail: paige.futrell@apachecorp.com3a. Address  
303 VETERANS AIRPARK LN  
MIDLAND, TX 797053b. 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 SWNW 2188FNL 909FWL  
32.777336 N Lat, 104.237735 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 recompleat 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: 04/15/2014)

04/22/2014: Final cut. Set anchors. MIRUSU DO DV tool.

04/23/2014: Run log. TOC @ surface (CBL). Perf Glorieta/Yeso @3262,82,3302,81,  
3400,26,56,74,93,3524,43,78,3515,35,54,90,3792,3867,3908,50,73,4012

55,4134,54,77,96,4216,35,55,74. W/1 SPF 31 holes.

04/24/2014: Acidize Glorieta/Yeso from 3262-4274 w/ 3654 gals 15% HCI NEFE  
Acid. SI well. Frac well on 05/05/2014.05/06/2014: Frac Glorieta/Yeso: Pump pad, brown sand stages, black ultra sand  
Stage and flush. TTL prop 336,837#.

05/08/2014: CO to PBTD @4560. POOH w/ TBG.

05/09/2014: RIH w/ 2-7/8" J-55 6.5# prod tbg, SN @4333,ETD @4358.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

OCT 16 2014

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

**Electronic Submission #270369 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 10/13/2014

**THIS SPACE FOR FEDERAL OR STATE**

Approved By

Title

Date

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.

Office

Pending BLM approvals will  
subsequently be reviewed  
and scanned TCS

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.

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

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 20

3. Address 303 VETERANS AIRPARK LN  
MIDLAND, TX 79705

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

9. API Well No.  
30-015-42036

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

At surface SWNW 2188FNL 909FWL 32.777336 N Lat, 104.237735 W Lon

At top prod interval reported below SWNW 2188FNL 909FWL 32.777336 N Lat, 104.237735 W Lon

At total depth SWNW 2188FNL 909FWL 32.777336 N Lat, 104.237735 W Lon

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  
04/10/2014

15. Date T.D. Reached  
04/14/2014

16. Date Completed  
☐ D & A ☒ Ready to Prod.  
09/23/2014

17. Elevations (DF, KB, RT, GL)\*  
3592 GL

18. Total Depth: MD  
TVD 4600

19. Plug Back T.D.: MD  
TVD 4560

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
BHCS/HI-RES LL/CN/CAL

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	350			530		0	
7.875	5.500 J-55	17.0	4600			1080		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	4358							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA-YESO	3262	4274	3262 TO 4274	1.000	31	PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
3262 TO 4274	3654 ACID, 281,990 #16:30 SAND, 54,847 #20:40 SAND, 3150 GAL 10# GEL, 258,174 GAL 20#

**NM OIL CONSERVATION**

ARTESIA DISTRICT

OCT 16 2014

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
09/23/2014	10/08/2014	24	▶	39.0	110.0	336.0	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	
			▶				2820	DOWN	

28a. Production - Interval B

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

Pending BLM approvals will  
subsequently be reviewed  
and scanned *TPS*

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

ELECTRONIC SUBMISSION #270378 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	211	454	SHALE,SS*,ANHYDRITE/WATER	YATES	211
SEVEN RIVERS	454	1018	SHALE,SS*,ANHYDRITE,DOL*/O,G,W	SEVEN RIVERS	454
GRAYBURG	1473	1813	DOL*,SS*,SANDSTONE/O,G,W*	GRAYBURG	1473
SAN ANDRES	1813	3252	DOLOMITE,CHERT/O,G,W*	SAN ANDRES	1813
GLORIETA	3252	3291	DOLOMITE, SANDSTONE/O,G,W*	GLORIETA	3252
YESO	3291	3370	DOLOMITE/O,G,W*	YESO	3291
PADDOCK	3370	3817	DOLOMITE/O,G,W*	PADDOCK	3370
BLINEBRY	3817	4397	DOL*,SS*,SANDSTONE/O,G,W*	BLINEBRY	3817

32. Additional remarks (include plugging procedure):  
Formation tops continued:

Water table-water formation above Yates-Not logged.  
Queen: 1018'-1473'Siltstone, sandstone, anhydrite/Water.  
Tubb: 4397'-did not drill deep enough. Sandstone.  
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 #270378 Verified by the BLM Well Information System.  
For APACHE CORPORATION, sent to the Carlsbad**

Name (please print) PAIGE FUTRELLTitle REGULATORY ANALYST

Signature \_\_\_\_\_ (Electronic Submission)

Date 10/13/2014

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 #270378 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 09/17/2014.