

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 **NM OIL CONSERVATION**  
Energy, Minerals & Natural Resources

Form C-104  
Revised August 1, 2011

ARTESIA DISTRICT  
MAR 9 2015

Submit one copy to appropriate District Office

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

RECEIVED

☐ AMENDED REPORT

**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

<sup>1</sup> Operator name and Address Apache Corporation 303 Veterans Airpark Lane Suite 3000 Midland TX 79705		<sup>2</sup> OGRID Number 873
		<sup>3</sup> Reason for Filing Code/ Effective Date NW / 01/31/2015
<sup>4</sup> API Number 30-015-41110	<sup>5</sup> Pool Name Cedar Lake; Glorieta-Yeso	<sup>6</sup> Pool Code 96831
<sup>7</sup> Property Code 308720	<sup>8</sup> Property Name Lee Federal	<sup>9</sup> Well Number 066

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

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
D	20	17S	31E		925	North	410	West	Eddy

**<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 01/31/2015	<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
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O

**IV. Well Completion Data**

<sup>21</sup> Spud Date 10/30/2014	<sup>22</sup> Ready Date 01/31/2015	<sup>23</sup> TD 6418'	<sup>24</sup> PBTD 6375'	<sup>25</sup> Perforations 4520'-6290'	<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		
17-1/2"	13-3/8"	288'	370 sx Class C		
11"	8-5/8"	3506'	1485 sx Class C		
7-7/8"	5-1/2"	6418'	940 sx Class C		
Tubing	2-7/8"	6337'			

**V. Well Test Data**

<sup>31</sup> Date New Oil 01/31/2015	<sup>32</sup> Gas Delivery Date 01/31/2015	<sup>33</sup> Test Date 02/11/2015	<sup>34</sup> Test Length 24	<sup>35</sup> Tbg. Pressure	<sup>36</sup> Csg. Pressure
<sup>37</sup> Choke Size	<sup>38</sup> Oil 133	<sup>39</sup> Water 234	<sup>40</sup> Gas 144		<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:  
Fatima Vasquez

Title:  
Regulatory Analyst II

E-mail Address:  
Fatima.Vasquez@apachecorp.com

Date:  
03/05/2015

Phone:  
(432) 818-1015

OIL CONSERVATION DIVISION

Approved by:




Title:

Dist II Supervisor

Approval Date:

3-10-15

Pending BLM approvals will  
subsequently be reviewed  
and scanned 

## NM OIL CONSERVATION

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ARTESIA DISTRICT

MAR 9 2015

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.*5. Lease Serial No.  
NMLC029395B

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
LEE FEDERAL 669. API Well No.  
30-015-4111010. Field and Pool, or Exploratory  
CEDAR LAKE, GLORIETA-YESO11. 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: FATIMA VASQUEZ  
E-Mail: fatima.vasquez@apachecorp.com3a. Address  
303 VETERANS AIRPARK LN  
MIDLAND, TX 797053b. Phone No. (include area code)  
Ph: 432-818-1015

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 20 T17S R31E NWNW 925FNL 410FWL  
32.824740 N Lat, 103.899187 W Lon

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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 type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Production Start-up
	<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 this well as follows:

11/19/2014 MIRUSU. Log TOC @ 83'(CBL).

Stage I - Perf Lower Blinebry/Tubb @ 5605', 37', 74', 5700', 24', 50', 70', 90', 5810', 30', 50', 70', 90', 5918', 33', 67', 90', 6010', 30', 50', 74', 94', 6117', 41', 65', 86', 6210', 30', 52', &amp; 90' w/ 1 SPF, 30 holes.

11/20/2014 RIH w/ pkr &amp; tbg. Spot 688 gals acid. Acidize w/ 3108 gals 15% HCl NEFE acid.

11/21/2014 Release pkr. POOH w/ tbg &amp; pkr. ND BOP. NU FV.

12/20/2014 Frac Lower Blinebry/Tubb w/ 27,720 gals 15#, 186,270 gals 15# gel, &amp; 248,190# 16/30 sand. Spot 1050 gals 15% HCl acid.

12/21/2014 Stage II - Set CBP @ 5580'. Perf Upper Blinebry @ 5035', 72', 90', 5117', 34', 68', 83', 5205', 19', 41', 56', 69', 82', 5308', 29', 46', 70', 89', 5403', 22', 38', 72', 89', 5512', &amp;

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

Electronic Submission #294122 verified by the BLM Well Information System  
For APACHE CORPORATION, sent to the Carlsbad

Name (Printed/Typed) FATIMA VASQUEZ

Title REGULATORY ANALYST II

Signature (Electronic Submission)

Date 03/06/2015

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

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

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

Department or agency of the United

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

## Additional data for EC transaction #294122 that would not fit on the form

### 32. Additional remarks, continued

30' w/ 1 SPF, 25 holes. Acidize w/ 3760 gals 15% HCl acid. Frac w/ 24,948 gals 15# pad, 138,012 gals 15# gel & 206,800# 16/30 sand. Spot 1050 gals 15% HCl acid.  
Stage III - Set CBP @ 5010'. Perf Glorieta/Paddock @ 4520', 43', 64', 89', 4603', 28', 49', 66', 80', 4703', 22', 30', 49', 65', 80', 99', 4820', 32', 50', 70', 83', 4914', 31', 44', 54', & 72' w/ 1 SPF, 26 holes. Acidize w/ 3864 gals 15% HCl acid. Frac w/ 21,630 gals 15# pad, 145,572 gals 15# gel & 220,536# 16/30 sand.  
01/09/2015 Standby to remove frac tanks. MIRU PU.  
01/12/2015 NU prod spool & BOP. RIH w/ bit & tbg.  
01/13/2015 Standby due to weather.  
01/14/2015 DO CBP @ 5010' & 5580'. Wash sand to PBTD @ 6375' & circ clean.  
01/15/2015 RIH w/ 2-7/8" J-55 6.5# prod tbg. TAC @ 4458'. SN @ 6247'. ETD @ 6337'.  
01/31/2015 Set 640 pumping unit. POP.

# NM OIL CONSERVATION ARTESIA DISTRICT

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

MAR 9 2015

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMLC029395B

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator APACHE CORPORATION			Contact: FATIMA VASQUEZ E-Mail: fatima.vasquez@apachecorp.com		
3. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705			3a. Phone No. (include area code) Ph: 432-818-1015		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNW 925FNL 410FWL 32.824740 N Lat, 103.899187 W Lon At top prod interval reported below NWNW 925FNL 410FWL 32.824740 N Lat, 103.899187 W Lon At total depth NWNW 925FNL 410FWL 32.824740 N Lat, 103.899187 W Lon			8. Lease Name and Well No. LEE FEDERAL 66		
			9. API Well No. 30-015-41110		
			10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO		
			11. Sec., T., R., M., or Block and Survey or Area Sec 20 T17S R31E Mer		
			12. County or Parish EDDY		13. State NM
14. Date Spudded 10/30/2014		15. Date T.D. Reached 11/08/2014		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 01/31/2015	
17. Elevations (DF, KB, RT, GL)* 3656 GL		18. Total Depth: MD TVD 6418		19. Plug Back T.D.: MD TVD 6375	
		20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CN/HI-RES LL/SGR/BHCS/BHPL			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 H40	48.0		288		370		0	
11.000	8.625 J55	32.0		3506		1485		0	
7.875	5.500 J55	17.0		6418		940		83	

### 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	6337							

### 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	4522		4520 TO 4972	1.000	26	PRODUCING
B) PADDOCK	4565		5035 TO 5530	1.000	25	PRODUCING
C) BLINEBRY	5077		5605 TO 6290	1.000	30	PRODUCING
D) TUBB	6274					

### 26. Perforation Record

Depth Interval	Amount and Type of Material
4520 TO 4972	21,630 GALS 15# PAD, 145,572 GALS 15# GEL, 220,536# SAND, 3864 GALS ACID
5035 TO 5530	24,948 GALS 15# PAD, 138,012 GALS 15# GEL, 206,800# SAND, 4810 GALS ACID
5605 TO 6290	27,720 GALS 15# PAD, 186,270 GALS 15# GEL, 248,190# SAND, 4846 GALS ACID

### 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
01/31/2015	02/11/2015	24	→	133.0	144.0	234.0	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	
			→				1083	POW	

### 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

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

ELECTRONIC SUBMISSION #294123 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
RUSTLER	273	410	SANDSTONE/ANHYDRITE	RUSTLER	273
YATES	1410	1704	SANDSTONE	YATES	1410
SEVEN RIVERS	1704	2317	SS*/CARBONATE-OIL, GAS & WATER	SEVEN RIVERS	1704
SAN ANDRES	3025	4522	CARBONATE - OIL, GAS & WATER	SAN ANDRES	3025
GLORIETA	4522	4565	SANDSTONE - OIL, GAS & WATER	GLORIETA	4522
PADDOCK	4565	5077	DOLOMITE - OIL, GAS & WATER	PADDOCK	4565
BLINEBRY	5077	6247	DOLOMITE - OIL, GAS & WATER	BLINEBRY	5077
TUBB	6247		SANDSTONE - OIL, GAS & WATER	TUBB	6247

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

Attachments - Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 03/05/2015.

Tansill Salt - Salt- 410'-1300'

Bottom Salt - Salt- 1300'-1410'

Queen - Sandstone/Carbonate - Oil, Gas & Water - 2317'-3025'.

Tubb - didn't drill far enough to get bottom depth of Tubb.

## 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 #294123 Verified by the BLM Well Information System.  
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) FATIMA VASQUEZ

Title REGULATORY ANALYST II

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

Date 03/06/2015

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 #294123 that would not fit on the form**

**32. Additional remarks, continued**

\*SS - Sandstone