

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

Form C-104  
Revised August 1, 2011

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

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 3000 Midland TX 79705		<sup>2</sup> OGRID Number 873
		<sup>3</sup> Reason for Filing Code/ Effective Date NW / 05/01/2014
<sup>4</sup> API Number 30-015-41842	<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 87

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

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	20	17S	31E		330	South	990	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 05/01/2014	<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**

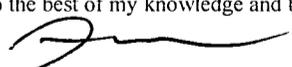
<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G
252293	Holly Energy Pipeline 311 W Quay / PO Box 1360 Artesia NM 88210	O
<b>NM OIL CONSERVATION</b> ARTESIA DISTRICT JUL 09 2014 RECEIVED		

**IV. Well Completion Data**

<sup>21</sup> Spud Date	<sup>22</sup> Ready Date	<sup>23</sup> TD	<sup>24</sup> PBDT	<sup>25</sup> Perforations	<sup>26</sup> DHC, MC
02/06/2014	05/01/2014	6397'	6350'	4760'-6270'	
<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"	427'	640 sx Class C		
11"	8-5/8"	3512'	1660 sx Class C		
7-7/8"	5-1/2"	6397'	960 sx Class C		
Tubing	2-7/8"	6339'			

**V. Well Test Data**

<sup>31</sup> Date New Oil	<sup>32</sup> Gas Delivery Date	<sup>33</sup> Test Date	<sup>34</sup> Test Length	<sup>35</sup> Tbg. Pressure	<sup>36</sup> Csg. Pressure
05/01/2014	05/01/2014	07/01/2014	24		
<sup>37</sup> Choke Size	<sup>38</sup> Oil	<sup>39</sup> Water	<sup>40</sup> Gas	<sup>41</sup> Test Method	
	13	279	12	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:  
07/02/2014

Phone:  
(432) 818-1015

OIL CONSERVATION DIVISION	
Approved by:	
Title:	<b>"Geologist"</b>
Approval Date:	7-11-2014
Pending BLM approvals will subsequently be reviewed and scanned	

3160-4  
3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.

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

8. Well Name and No.  
LEE FEDERAL 87

9. API Well No.  
30-015-41842

10. Field and Pool, or Exploratory  
CEDAR LAKE; G-Y (96831)

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: FATIMA VASQUEZ  
E-Mail: fatima.vasquez@apachecorp.com

3a. Address  
303 VETERANS AIRPARK LANE STE 3000  
MIDLAND, TX 79705  
3b. 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 SWSW 330FSL 990FWL  
32.813704 N Lat, 103.897247 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 recomplete 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 this well as follows:

02/28/2014 MIRUSU. RIH w/ bit & tbg.  
03/03/2014 Log TOC @ 48' (CBL). Perf Blinebry @ 5414', 32', 58', 76', 5500', 22', 44', 66', 85', 5605', 22', 35', 50', 78', 5743', 72', 95', 5824', 50', 70', 5905', 38', 82', 6024', 45', 70', 6102', 42', 60', 90', 6210', 25', 52', & 70' w/ 1 SPF, 34 holes.  
03/04/2014 Spot 840 gals acid. Acidize w/ 3120 gals 15% HCl NEFE acid.  
03/10/2014 Frac Blinebry w/ 236,754 gals 20# & 295,126# 16/30 sand. Flush w/ 4284 gals 10# linear gel. Spot 924 gals 15% HCl acid.  
Set CBP @ 5400'. Perf the Glorieta/Yeso @ 4760', 70', 4805', 40', 70', 88', 4900', 18', 48', 72', 89', 5018', 26', 50', 80', 5105', 22', 51', 68', 94', 5206', 32', 45', 62', 88', 5308', 32' & 49' w/ 1 SPF, 28 holes. Pump 3654 gals 15% HCl acid. Frac Glorieta/Yeso w/ 198,576 gals 20# &

Accepted for record  
NMOCDC/109  
7-11-14

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUL 09 2014

RECEIVED

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #251655 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 07/03/2014

**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 willfully States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## Additional data for EC transaction #251655 that would not fit on the form

### 32. Additional remarks, continued

272,945# 16/30 sand. Flush w/ 4620 gals 10# linear gel.  
03/13/2014 NU prod spool & BOP.  
03/14/2014 DO CBP @ 5400'. Wash sand to PBSD @ 6350'. Attempted to POH, tbg stuck & parted @ 968'.  
03/17/2014 Fish, unable to get through check valve.  
03/18/2014- 03/20/2014 Fish.  
03/21/2014 Trapped pressure between check valve and bit blew fishing string 800' up. Tbg cut & pushed out of well bore.  
03/24/2014 Rig inspection. Replace rams in BOP.  
03/25/2014 Incident investigation.  
03/27/2014- 03/28/2014 Fish.  
03/31/2014 Dress fish to 6276'. Circ clean.  
04/01/2014 RIH w/ tbg.  
04/02/2014 While going up w/ elevators to latch 7th string stripper head rubber failed & knocked tbg slips off the floor therefore tbg fell in hole. Blew mist of black water. Closed blinds on BOP. Replaced pipe rams w/ another set of blinds. Closed blinds, secured well. SDFN. Notified Jim Amos w/ BLM about blowout.  
04/04/2014- 04/09/2014 Standby for release to work.  
04/11/2014 RDPU & release for inspection.  
04/15/2014 Have safety meeting. RIH w/ over shot & tbg.  
04/16/2014 POOH w/ tbg, DC, jars, WP & shoe.  
04/21/2014 RU well foam. Wash fish to PBSD @ 6350'. Circ. Recover all of fish.  
04/22/2014 Run misc CBL. Test csg to 1000#- tested good.  
04/23/2014 RIH w/ 2-7/8" J-55 6.5# prod tbg. SN @ 6249' & ETD @ 6339'.  
04/24/2014 RIH w/ pump & rods. Clean location & RDMOSU.  
04/30/2014 Set 640 pumping unit. POP.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

Form 3160-4  
(August 2007)

UNITED STATES **JUL 09 2014**  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT**

5. Lease Serial No.  
NMLC029395B

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: **FATIMA VASQUEZ**  
E-Mail: **fatima.vasquez@apachecorp.com**

8. Lease Name and Well No.  
**LEE FEDERAL 87 (308720)**

3. Address **303 VETERANS AIRPARK LANE STE 3000 MIDLAND, TX 79705** 3a. Phone No. (include area code)  
Ph: **432-818-1015**

9. API Well No.  
**30-015-41842**

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface **SWSW 330FSL 990FWL 32.813704 N Lat, 103.897247 W Lon**  
 At top prod interval reported below **SWSW 330FSL 990FWL 32.813704 N Lat, 103.897247 W Lon**  
 At total depth **SWSW 330FSL 990FWL 32.813704 N Lat, 103.897247 W Lon**

10. Field and Pool, or Exploratory  
**CEDAR LAKE; G-Y (96831)**

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 **02/06/2014** 15. Date T.D. Reached **02/19/2014** 16. Date Completed  
 D & A  Ready to Prod.  
**05/01/2014**

17. Elevations (DF, KB, RT, GL)\*  
**3638 GL**

18. Total Depth: MD **6397** TVD **MD 6350 TVD** 19. Plug Back T.D.: MD **6350** TVD **MD 6350 TVD** 20. Depth Bridge Plug Set: MD **MD** TVD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**SBGR-CCL/BHPL/BHCS-SGR/HI-RES LL/CN** 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		427		640		345	
11.000	8.625 J-55	32.0		3512		1660		710	
7.875	5.500 J-55	17.0		6397		960		48	

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	6339							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GLORIETA	4756		4760 TO 5349	1.000	28	PRODUCING
B) YESO	4844		5414 TO 6270	1.000	34	PRODUCING
C)						
D)						

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

Depth Interval	Amount and Type of Material
4760 TO 5349	198,576 GALS 20#, 272,945# SAND, 3654 GALS ACID, 4620 GALS GEL
5414 TO 6270	236,754 GALS 20#, 295,126# SAND, 4884 GALS ACID, 4284 GALS GEL

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
05/01/2014	07/01/2014	24	→	13.0	279.0	12.0	37.1		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	
			→				923	POW	

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. 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

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 SEVEN RIVERS GRAYBURG SAN ANDRES GLORIETA PADDOCK BLINEBRY TUBB	1492 1809 2802 3208 4756 4844 5246 6314

32. Additional remarks (include plugging procedure):

Formation Tops Continued:  
Rustler 274'  
Bowers-SD 2207'  
Queen 2435'

Attachments - Frac Disclosure, OCD Forms C-102 & C-104. Logs mailed 05/23/2014.

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 #251679 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 07/03/2014

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 \*\***