

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 1000 Midland TX 79705		<sup>2</sup> OGRID Number 873
		<sup>3</sup> Reason for Filing Code/ Effective Date NW 08/13/16
<sup>4</sup> API Number 30-015-43442	<sup>5</sup> Pool Name CEDAR LAKE; GLORIETA-YESO	<sup>6</sup> Pool Code [96831]
<sup>7</sup> Property Code 315935	<sup>8</sup> Property Name CEDAR LAKE FEDERAL CA	<sup>9</sup> Well Number 648H

**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
E	6	17S	31E		1915	NORTH	330	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
	5	17S	31E		1915	NORTH	547	WEST	EDDY
<sup>12</sup> Lsc Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 08/13/16	<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>		
<b>ARTÉSIA DISTRICT</b>		
<b>SEP 01 2016</b>		
<b>RECEIVED</b>		

**IV. Well Completion Data**

<sup>21</sup> Spud Date	<sup>22</sup> Ready Date	<sup>23</sup> TD	<sup>24</sup> PBD	<sup>25</sup> Perforations	<sup>26</sup> DHC, MC
12/23/15	08/13/16	10,170 / 5295	10,170	5503-10,140	
<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 48# H40	451	550 sx Class C		
12.25'	9.625 J66 #40	3505	1800 sx Class C		
8.5'	7 L80 29# / 5.5 L80 20#	4713/10,170	630 sx Class C		
Tubing	2-7/8" J55	4988'			

**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
08/13/16	08/13/16	08/23/16	24 hrs		
<sup>37</sup> Choke Size	<sup>38</sup> Oil	<sup>39</sup> Water	<sup>40</sup> Gas	<sup>41</sup> Test Method	
	96	1720	10	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: *Emily Follis*  
Printed name: Emily Follis  
Title: Reg Analyst  
E-mail Address: emily.follis@apachecorp.com  
Date: 08/29/16  
Phone: 432-818-1801

OIL CONSERVATION DIVISION

Approved by: *Karen Sharp*  
Title: *Bus Op Spec - Adv*  
Approval Date: *9-1-16*

Pending BLM approvals will subsequently be reviewed and scanned

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.  
NMLC029435B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.  
NMNM134086

8. Well Name and No.  
CEDAR LAKE FEDERAL CA 648H

9. API Well No.  
30-015-43442

10. Field and Pool, or Exploratory  
CEDAR LAKE:GLORIETA -YESO

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

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

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
APACHE CORPORATION  
Contact: EMILY FOLLIS  
E-Mail: Emily.Follis@apachecorp.com

3a. Address  
303 VETERANS AIRPARK LANE SUITE 1000  
MIDLAND, TX 79705  
3b. Phone No. (include area code)  
Ph: 432-818-1801

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 6 T17S R31E 1915FNL 330FWL

**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 type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Production Start-up
	<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 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 the well as follows: RR 01/05/16 TOC @ 88'

06/29/16 RENEGADE WL PU RIH CNL-CBL-GR-CCL LOG FROM 4715 - SURFACE GOOD CEMENT. EST CEMENT TOP @ 88'. RDMO RENEGADE WL  
07/07/16 MIRU WOR - PU RIH W/ 6" BIT - D.O. DV TOOL @ 4714' POOH STANDING PIPE RACK  
07/08/16 RIH W/ 4.60" MILL- DRILL OUT DEBRIS SUB @ 4892-4894 RIH W/MILL TO MAX DEPTH OF 5598' W/ NO ROTATION, RD LOADED OUT SWIVEL. CIRC HOLE, POOH, LD WS TBG, LD DRILL COLLARS & MILL, ND BOP-NU CAPPING FLANGE-SWI, SDFN -  
07/11/16 RDMO ALL PARTIES  
08/01- 03/16 MIRU FRAC - ROCK PILE (17 STAGE FRAC)5503-10,140

TOTAL ACID - 2987 BBL

**NM OIL CONSERVATION**

ARTESIA DISTRICT

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

Electronic Submission #349311 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad

SEP 01 2016

Name (Printed/Typed) EMILY FOLLIS

Title REGULATORY ANALYST

RECEIVED

Signature (Electronic Submission)

Date 08/29/2016

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

Approved By \_\_\_\_\_

Pending BLM approvals will subsequently be reviewed and scanned

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.

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

Department or agency of the United States

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

**Additional data for EC transaction #349311 that would not fit on the form**

**32. Additional remarks, continued**

TOTAL SAND - 4,819,688 LBS

08/07-08/16 WORK OVER CLEAN OUT, START RIG UP BOPS & RIG FOR CLEAN OUT  
08/09/16 DRILL OUT, POOH LD TBG, RDMO ALL PARTIES, CAP WEL TO WAIT FOR PRODUCTION RIG  
08/11/16 MIRU, RIH W/SUMMIT ESP, 2-7/8" J55 TBG  
08/12/16 SFTY MTG, 0,ND BOP/HYDRIL, FLANGE UP WELL HD, RDMO, CLEAN UP LOC, SDFWE  
08/19/16 SET SURFACE, RUN ELECTRIC, PLUM INTO BATTERY, FINAL REPORT - POP

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.  
NMLC029435B

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.  
NMNM134086

2. Name of Operator  
APACHE CORPORATION  
Contact: EMILY FOLLIS  
E-Mail: Emily.Follis@apachecorp.com

8. Lease Name and Well No.  
CEDAR LAKE FEDERAL CA 648H

3. Address 303 VETERANS AIRPARK LANE SUITE 1000  
MIDLAND, TX 79705

3a. Phone No. (include area code)  
Ph: 432-818-1801

9. API Well No.  
30-015-43442

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface SWNW Lot 6 1915FNL 330FWL  
Sec 6 T17S R31E Mer  
At top prod interval reported below SWNW 1915FNL 547FWL  
Sec 5 T17S R31E Mer  
At total depth SWNW 1915FNL 547FWL  
Sec 5 T17S R31E Mer

10. Field and Pool, or Exploratory  
CEDAR LAKE; GLORIETA-YESO

11. Sec., T., R., M., or Block and Survey  
or Arca Sec 6 T17S R31E Mer

12. County or Parish  
EDDY COUNTY

13. State  
NM

14. Date Spudded  
12/23/2015

15. Date T.D. Reached  
01/04/2016

16. Date Completed  
 D & A  Ready to Prod.

17. Elevations (DF, KB, RT, GL)\*  
3763 GL

18. Total Depth: MD 10170  
TVD 5303

19. Plug Back T.D.: MD 10170  
TVD

20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
CNL-CBL-GR-CCL

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
12.250	9.625 J55	40.0		3505		1800			
8.500	7.000 L80	29.0		4713		630			
17.500	13.375 H40	48.0	451	451		550			

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	4988							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO UPPER BLINBRY	5198	10170	5503 TO 10051			OPEN HOLE PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5503 TO 10051	TOTAL SAND 4,819,688#, TOTAL ACID 2987 BBL

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
08/13/2016	08/23/2016	24	→	96.0	10.0	1720.0	37.0		ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
			→				104		

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

NM OIL CONSERVATION  
ARTESIA DISTRICT

SEP 01 2016

(See Instructions and spaces for additional data on reverse side)  
ELECTRONIC SUBMISSION #349309 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

RECEIVED

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	298	454	ANHYDRITE, DOLOMITE W	RUSTLER	298
SALADO	454	1360	ANHYDRITE, DOLOMITE W	SALADO	454
TANSIL	1360	1515	ANHYDRITE, SALT, DOLO, SS O/G/W	TANSIL	1360
YATES	1515	1785	SANDSTONE O/G/W	YATES	1515
SEVEN RIVERS	1785	2383	SS, DOLO, LIMESTONE O/G/W	SEVEN RIVER	1785
QUEEN	2383	2802	SS, DOLO, LIMESTONE O/G/W	QUEEN	2383
GRAYBURG	2802	3107	DOLO, LIMESTONE, SS O/G/W	GRAYBURG	2802
SAN ANDRES	3107	4526	DOLO, LIMESTONE, SS O/G/W	SAN ANDRES	3107

32. Additional remarks (include plugging procedure):

GLORIETA 4526 - 4589 SANDSTONE O/G/W  
 PADDOCK 4589 - 5198 DOLOMITE O/G/W  
 BLINEBRY 5198 - TD(10,170') 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 #349309 Verified by the BLM Well Information System.  
 For APACHE CORPORATION, sent to the Carlsbad**

Name (please print) EMILY FOLLIS Title REGULATORY ANALYST

Signature (Electronic Submission) Date 08/29/2016

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.