

**NM OIL CONSERVATION**

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

ARTESIA DISTRICT

Form C-104  
Revised August 1, 2011

SEP 29 2016

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 1000 Midland TX 79705		<sup>2</sup> OGRID Number 873
<sup>4</sup> API Number 30-015-43408		<sup>3</sup> Reason for Filing Code/ Effective Date NW /09/14/16
<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 #147H

**II. <sup>10</sup>Surface Location** *(Formerly Crown Federal # 47H)*

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
A	10	17S	31E		515	NORTH	330	EAST	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
D	10	17s	31E		512	NORTH	331	WEST	EDDY

<sup>12</sup> Lse Code	<sup>13</sup> Producing Method Code	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date
F	P	09/14/16			

**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

**IV. Well Completion Data**

<sup>21</sup> Spud Date	<sup>22</sup> Ready Date	<sup>23</sup> TD	<sup>24</sup> PBTD	<sup>25</sup> Perforations	<sup>26</sup> DHC, MC
11/09/15	09/14/16	10,199 <i>5720</i>	10149	6204-10,007	
<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 H40 48#	665	700 sx Class C		
12.25'	9.675 J55 40#	3507	1300 sx Class C		
8.625	7 "29# L80/5.5 20#	5252/10158	660 sx Class C		
Tubing	2.875 6.50# J55/L80	5020'			

**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
09/14/16	09/14/16	09/23/16	24 hrs		
<sup>37</sup> Choke Size	<sup>38</sup> Oil	<sup>39</sup> Water	<sup>40</sup> Gas	<sup>41</sup> Test Method	
	301	842	407	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: 09/26/16  
Phone: 432-818-1801

OIL CONSERVATION DIVISION  
Approved by: *Karen Sharp*  
Title: *Prus Oper Spec - Adv*  
Approval Date: *10-5-16*

Pending BLM approvals will subsequently be reviewed and scanned.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
SEP 29 2016

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. NMLC029426B
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No. NMMN134086
8. Well Name and No. CEDAR LAKE FEDERAL CA 147H
9. API Well No. 30-015-43408
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 <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> 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 10 T17S R31E NENE 515FNL 330FEL	

**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 FOLLOWING WORK: RR 11/23/2016

ORIGINAL WELL NAME: CROW FED COM 47H

01/25/16 RENEGADE WL RIH WITH CNL-CBL-GR FROM 5291-SURFACE  
01/27/16 FOUND WELL @ 0#, RACK & TALLY PIPE, TAG DV tool @ 5251' SI, SDFN  
01/28/16 MILL OUT DEBRIS SUB @ 5500', CIRC, POOH BEGIN RD, SDFN  
08/13-09/3/16 BEGIN FRAC-ROCKPILE - (15 STAGE FRAC) RDMO ALL EQUIPMENT  
09/04-7/16 MIRU WOR AND ALL EQUIPMENT UNLOAD & TALLY PIPE, NIPPLE UP BOP, DRILL OUT SLEEVES

TOTAL SAND 2,786,137 #  
TOTAL ACID 2458 BBL

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #352592 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad</b>	
Name (Printed/Typed) EMILY FOLLIS	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 09/26/2016

**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.	Date _____
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 to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction to any department or agency of the United States.

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

**Additional data for EC transaction #352592 that would not fit on the form**

**32. Additional remarks, continued**

09/11/16 WIS WAITING ON RIG, MIRU WOR RACK & TALLY 2-7/8 J55 & L80 PIPE(L80 WAS SENT BY ACCIDENT)CONFIRMED THROUGH PRODUCTION/COMPLETIONS OK TO RUN. ND BOPS & 7-1/16" 5M FLANGE, NU ESP FLANGE, SWI & TURN OVER TO PRODUCTION. RDMO WELL IS TURNED OVER TO PRODUCTION POP

**NM OIL CONSERVATION**

ARTESIA DISTRICT

SEP 29 2016

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
NMLC029426B

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

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

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface **NENE Lot A 515FNL 330FEL**  
 At top prod interval reported below **NENE Lot D 512FNL 331FWL**  
 At total depth **NENE Lot D Tract 17E 512FNL 331FWL**

6. If Indian, Allottee or Tribe Name \_\_\_\_\_  
 7. Unit or CA Agreement Name and No. **NMNM134086**  
 8. Lease Name and Well No. **CEDAR LAKE FEDERAL CA 147H**  
 9. API Well No. **30-015-43408**  
 10. Field and Pool, or Exploratory **CEDAR LAKE; GLORIETA-YESO**  
 11. Sec., T., R., M., or Block and Survey or Area **Sec 10 T17S R31E Mer**  
 12. County or Parish **EDDY COUNTY** 13. State **NM**  
 14. Date Spudded **11/09/2015** 15. Date T.D. Reached **11/22/2015** 16. Date Completed  D & A  Ready to Prod.  
 17. Elevations (DF, KB, RT, GL)\* **3946 GL**

18. Total Depth: **MD 10199 TVD** 19. Plug Back T.D.: **MD 10149 TVD** 20. Depth Bridge Plug Set: **MD TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) **CNL-CBL-GR** 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 H40	48.0		665		700			
12.250	9.675 J55	40.0		3507		1300			
8.625	7.000 L80	29.0		5252		660			
8.625	5.500 L80	20.0		10158					

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	5020							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) <b>BLINEBRY</b>	<b>5698</b>	<b>10199</b>	<b>6204 TO 10007</b>			<b>OPEN HOLE PRODUCING</b>
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
<b>6204 TO 10007</b>	<b>TOTAL SAND 2,786,137 # TOTAL ACID 2,458 BBL</b>

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
<b>09/14/2016</b>	<b>09/23/2016</b>	<b>24</b>	<b>→</b>	<b>301.0</b>	<b>407.0</b>	<b>842.0</b>	<b>37.0</b>		<b>ELECTRIC PUMP SUB-SURFACE</b>
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			<b>→</b>				<b>1352</b>	<b>POW</b>	

28a. Production - Interval B

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

Pending BLM approvals will subsequently be reviewed and scanned

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

ELECTRONIC SUBMISSION #352591 VERIFIED BY THE BLM WELL INFORMATION

**\*\* 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	597	743	ANHYDRITE, DOLOMITE W	RUSTLER	597
SALADO	743	1777	ANHYDRITE, DOLOMITE W	SALADO	743
TANSIL	1777	1939	ANHYDRITE, SALT, DOLO, SS O/G/W	TANSIL	1777
YATES	1939	2228	SANDSTONE O/G/W	YATES	1939
SEVEN RIVER	2228	2848	SS, DOLO, LIMESTONE O/G/W	SEVEN RIVER	2228
QUEEN	2848	3262	SS, DOLO, LIMESTONE O/G/W	QUEEN	2848
GRAYBURG	3262	3597	DOLO, LIMESTONE, SS O/G/W	GRAYBURG	3262
SAN ANDRES	3597	5099	DOLO, LIMESTONE, SS O/G/W	SAN ANDRES	3597

32. Additional remarks (include plugging procedure):

GLORIETA 5099- 5170 SANDSTONE O/G/W  
 PADDOCK 5170- 5698 DOLOMITE O/G/W  
 BLINEBRY 5698 - TD(10,199) 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 #352591 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 09/26/2016

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.

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