

**NM OIL CONSERVATION**

ARTESIA DISTRICT

Form C-104

 State of New Mexico  
 Energy, Minerals & Natural Resources

Revised August 1, 2011

**APR 25 2016**

Submit one copy to appropriate District Office

**RECEIVED** ☐ AMENDED REPORT

 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

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

**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 30-015-48901- <i>5</i>		<sup>3</sup> Reason for Filing Code/ Effective Date NW / 4/14/2016	
<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 641H

**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
I	6	17S	31E		2025	South	200	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
I	5	17S	31E		2026	South	333	East	Eddy

<sup>12</sup> Lsc 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	4/14/2016			

**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	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	O
15694	Navajo Refining Co P/L Division PO Box 159 Artesia NM 88211	O

**IV. Well Completion Data**

<sup>21</sup> Spud Date 6/30/2015	<sup>22</sup> Ready Date 4/14/2016	<sup>23</sup> TD 9845'	<sup>24</sup> PBTD 9845'	<sup>25</sup> Perforations 5489'-9806'	<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"	410'		420 sx Class C	
12-1/4"	9-5/8"	3500'		1500 sx Class C	
8-1/2"	7" / 5-1/2"	4410' / 9815'		625 sx Class C	
Tubing	2-7/8"	4689'			

**V. Well Test Data**

<sup>31</sup> Date New Oil 4/14/2016	<sup>32</sup> Gas Delivery Date 4/14/2016	<sup>33</sup> Test Date 4/19/2016	<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 608	<sup>39</sup> Water 1512	<sup>40</sup> Gas 153		<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>Reesa Fisher</i>		OIL CONSERVATION DIVISION	
Printed name: Reesa Fisher		Approved by: <i>Saren Sharp</i>	
Title: Sr Staff Reg Analyst		Title: <i>Bus Op Spec Adv</i>	
E-mail Address: Reesa.Fisher@apachecorp.com		Approval Date: <i>4-29-16</i>	
Date: 4/21/2016	Phone: 432-818-1062	Pending BLM approvals will subsequently be reviewed and scanned	

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.  
NMLC029426B

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**7. If Unit or CA/Agreement, Name and/or No.  
NMNM134086

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.  
CEDAR LAKE FEDERAL CA 641H2. Name of Operator  
APACHE CORPORATIONContact: REESA FISHER  
E-Mail: Reesa.Fisher@apachecorp.com9. API Well No.  
30-015-429013a. Address  
303 VETERANS AIRPARK LANE SUITE 3000  
MIDLAND, TX 797053b. Phone No. (include area code)  
Ph: 432-818-106210. Field and Pool, or Exploratory  
CEDAR LAKE; GLORIETA-YESO

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

Sec 6 T17S R31E NESE 2025FSL 200FEL

11. County or Parish, and State

EDDY COUNTY COUNTY, NM

**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: (RR 7/13/2015)  
(formerly NFE Federal Com #41H)

09/09/2015 MIRU WL - Log from Surface to 4409'; Good cement, ETOC @ 104'.

09/23/2015 DO DV Tool @ 4407'.

09/24/2015 DO Debris Sub @ 4636'.

09/25/2015 POOH w/tbg & BHA.

11/02-03/2015 Frac Prep

11/04/2015 Frac Paddock 5189'-9806' (KOP @ 4373'; TD @ 9845')

Packers @ 5046', 5329', 5615', 5899', 6183', 6424', 6710', 6994', 7322', 7609', 7896', 8181', 8465', 8664', 8948', 9230', 9516', 9803' (17 Stages)

Total Acid = 3037 BBLS

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

APR 25 '2016

RECEIVED

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

**Electronic Submission #337068 verified by the BLM Well Information System  
For APACHE CORPORATION, sent to the Carlsbad**

Name (Printed/Typed) REESA FISHER

Title SR STAFF REGULATORY ANALYST

Signature (Electronic Submission)

Date 04/21/2016

**THIS SPACE FOR FEDERAL OR STATE OFFICIAL USE**Pending BLM approvals will  
subsequently be reviewed  
and scanned

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

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 \*\***

**Additional data for EC transaction #337068 that would not fit on the form**

**32. Additional remarks, continued**

Total Sand = 3,250,790#

11/15-17/2015 Mill out sleeves.

WO production equipment and facilities.

04/06/2016 RIH w/prod equip. 2-7/8" J-55 tbg to 4689'. ESP Pump @ 4274'; Intake @ 4314'; Motor @ 4358'; Desander @ 4363'.

04/14/2016 Hook up electric & POP.

NOTE: Gaps in dates are due to pad drilling processes and surrounding area water issues, which delay completion operations.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APR 25 2016**

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

**WELL COMPLETION OR RECOMPLETION REPORT**

5. Lease Serial No.  
NMLC029426B

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. NMNM134086		
2. Name of Operator APACHE CORPORATION			8. Lease Name and Well No. CEDAR LAKE FEDERAL CA 641H		
Contact: REESA FISHER E-Mail: Reesa.Fisher@apachecorp.com					
3. Address 303 VETERANS AIRPARK LANE SUITE 3000 MIDLAND, TX 79705			9. API Well No. 30-015-42901		
3a. Phone No. (include area code) Ph: 432-818-1062					
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface NESE 2025FSL 200FEL  At top prod interval reported below NESE 2025FSL 200FEL  At total depth NESE 2025FSL 200FEL			10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO		
			11. Sec., T., R., M., or Block and Survey or Area Sec 6 T17S R31E Mer		
			12. County or Parish EDDY COUNTY		13. State NM
14. Date Spudded 06/30/2015		15. Date T.D. Reached 07/13/2015	16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/14/2016		17. Elevations (DF, KB, RT, GL)* 3758 GL
18. Total Depth: MD 9845 TVD 4978		19. Plug Back T.D.: MD 9845 TVD		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CN/CBL			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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	410		420		0	
12.250	9.625 J-55	40.0	0	3500		1500		0	
8.500	7.000 L-80	29.0	0	4410		625		104	
8.500	5.500 L-80	20.0	4410	9815					

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	4689							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	4672	9845	5189 TO 9806			PROD - OH
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
5189 TO 9806	3037 BBLs ACID; 3,250,790# SAND

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
04/14/2016	04/19/2016	24	→	608.0	153.0	1512.0	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	
			→				252	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
			→					
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

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

ELECTRONIC SUBMISSION #337070 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

13

## 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	403	535	ANHYDRITE, DOLOMITE W	RUSTLER	403
SALADO	535	1415	ANHYDRITE, DOLOMITE W	SALADO	535
TANSILL	1415	1549	ANYDRITE, SALT, DOLO, SS O/G/W	TANSILL	1415
YATES	1549	1821	SANDSTONE O/G/W	YATES	1549
SEVEN RIVERS	1821	2417	SANDSTONE, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	1821
QUEEN	2417	2836	SANDSTONE, DOLO, LIMESTONE O/G/W	QUEEN	2417
GRAYBURG	2836	3152	DOLO, LIMESTONE, SANDSTONE O/G/W	GRAYBURG	2836
SAN ANDRES	3152	4620	DOLO, LIMESTONE, SANDSTONE O/G/W	SAN ANDRES	3152

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

Glorieta 4620 4672 Sandstone O/G/W Glorieta 4620  
Paddock 4672 9845 Dolomite O/G/W Paddock 4672

Formerly NFE Federal Com #41H

KOP @ 4373'

NOTE: Gaps in dates are due to pad drilling processes and surrounding area water issues,

## 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 #337070 Verified by the BLM Well Information System.  
For APACHE CORPORATION, sent to the Carlsbad

Name (please print) REESA FISHER

Title SR STAFF REGULATORY ANALYST

Signature (Electronic Submission)

Date 04/21/2016

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.

\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\*

**Additional data for transaction #337070 that would not fit on the form**

**32. Additional remarks, continued**

which delay completion operations.