

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 / 1/28/2016
<sup>4</sup> API Number 30-015-43250	<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	<sup>9</sup> Well Number 861H

**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	8	17S	31E		1795	South	25	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
L	8	17S	31E		1796	South	334	West	Eddy
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 1/28/2016	<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/V
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 FEB 11 2016	
	<b>RECEIVED</b>	

**IV. Well Completion Data**

<sup>21</sup> Spud Date 9/16/2015	<sup>22</sup> Ready Date 1/28/2016	<sup>23</sup> TD 9849' / 5127	<sup>24</sup> PBTD 9849'	<sup>25</sup> Perforations 5285'-9819'	<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"	428'	440 sx Class C		
12-1/4"	9-5/8"	3517'	1500 sx Class C		
8-1/2"	7" / 5-1/2"	4685' / 9831'	660 sx Class C		
Tubing	2-7/8"	4859'			

**V. Well Test Data**

<sup>31</sup> Date New Oil 1/28/2016	<sup>32</sup> Gas Delivery Date 1/28/2016	<sup>33</sup> Test Date 2/2/2016	<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 164	<sup>39</sup> Water 2352	<sup>40</sup> Gas 63		<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 Approved by: <i>RR Dado</i> Title: <i>DIST R S JEWISER</i> Approval Date: <i>2-17-16</i>
Printed name: Reesa Fisher	
Title: Sr Staff Reg Analyst	
E-mail Address: Reesa.Fisher@apachecorp.com	
Date: 2/8/2016	Phone: 432-818-1062

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.  
NMLC029435B

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.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

CEDAR LAKE FEDERAL 861H

2. Name of Operator

APACHE CORPORATION

Contact: REESA FISHER

E-Mail: Reesa.Fisher@apachecorp.com

9. API Well No.

30-015-43250

3a. Address

303 VETERANS AIRPARK LANE SUITE 3000  
MIDLAND, TX 79705

3b. Phone No. (include area code)

Ph: 432-818-1062

10. Field and Pool, or Exploratory

CEDAR LAKE; GLORIETA-YESO

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

Sec 8 T17S R31E NESE 1795FSL 25FEL

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 10/04/2015)

(Well previously named NFE Federal Com #61H)

11/02/2015 MIRUSU Test csg to 5000'; tag DVT @ 4685'.

11/03/2015 DO DVT @ 4685'; circ clean. Tag Debris Sub @ 4878'.

11/04/2015 DO Debris Sub @ 4878'; circ clean.

11/05/2015 POOH, RD, Prep to frac at later date.

12/07/2015 MIRUSU Frac Paddock 5285'-9819' (TD 9849')

Packers @ 5285', 5553', 5849', 6145', 6440', 6690', 6984', 7279', 7574', 7825', 8120', 8412',

8701', 8995', 9245', 9533', 9819' (16 Stages)

Total Acid Volume = 2915 bbls

**NM OIL CONSERVATION**

ARTESIA DISTRICT

FEB 11 2016

RECEIVED

Accepted for record  
LED NIMOC 2/17/16

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

Electronic Submission #331011 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 02/08/2016

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

Approved By	Title	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.	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 #331011 that would not fit on the form**

**32. Additional remarks, continued**

Total Sand Volume = 3,063,840#

12/16-18/2015 Mill out frac sleeve.

12/19/2015 Cap well and move, turning well over to production, W/O equipment & hook-up.

01/18/2016 MIRUPU

01/19/2016 MIRU Spoolers, PU & assemble ESP. SD due to excessive wind.

01/20/2016 RIH w/ESP

01/28/2016 Run electric, hook up to battery. 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

FEB 11 2016

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

## WELL COMPLETION OR RECOMPLETION REPORT

5. Lease Serial No.  
NMLC029435B

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.  
CEDAR LAKE FEDERAL 861H

9. API Well No.  
30-015-43250

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

11. Sec., T., R., M., or Block and Survey  
or Arca Sec 8 T17S R31E Mer

12. County or Parish  
EDDY COUNTY

13. State  
NM

17. Elevations (DF, KB, RT, GL)\*  
3837 GL

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: REESA FISHER  
E-Mail: Reesa.Fisher@apachecorp.com

3. Address 303 VETERANS AIRPARK LANE SUITE 3000  
MIDLAND, TX 79705

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 1795FSL 25FEL

At top prod interval reported below NESE 1795FSL 25FEL

At total depth NWSW 1796FSL 334FWL

14. Date Spudded  
09/16/2015

15. Date T.D. Reached  
10/03/2015

16. Date Completed  
☐ D & A ☒ Ready to Prod.  
01/28/2016

18. Total Depth: MD 9849  
TVD 5127

19. Plug Back T.D.: MD 9849  
TVD

20. Depth Bridge Plug Set: MD  
TVD

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

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	0	428		440		0	
12.250	9.625 J-55	40.0	0	3517		1500		0	
8.500	7.000 L-80	29.0	0	4685		660		0	
8.500	5.500 L-80	20.0	4685	9831					

### 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	4859							

### 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	4929	9831	5285 TO 9819			OH-PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5285 TO 9819	2915 BBLS ACID; 3,063,840# 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
01/28/2016	02/02/2016	24	→	164.0	63.0	2352.0	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	
			→				384	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	
			→						

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

ELECTRONIC SUBMISSION #331014 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	402	563	ANHYDRITE, DOLOMITE W	RUSTLER	402
SALADO	563	1575	ANHYDRITE, DOLOMITE W	SALADO	563
TANSILL	1575	1711	ANYDRITE, SALT, DOLO, SS O/G/W	TANSILL	1575
YATES	1711	1992	SANDSTONE O/G/W	YATES	1711
SEVEN RIVERS	1992	2611	SANDSTONE, DOLO, LIMESTONE O/G/W	SEVEN RIVERS	1992
QUEEN	2611	3032	SANDSTONE, DOLO, LIMESTONE O/G/W	QUEEN	2611
GRAYBURG	3032	3327	DOLO, LIMESTONE, SANDSTONE O/G/W	GRAYBURG	3032
SAN ANDRES	3327	4859	DOLO, LIMESTONE, SANDSTONE O/G/W	SAN ANDRES	3327

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

Glorieta 4859 4929 Sandstone O/G/W Glorieta 4859  
Paddock 4929 9849 Dolomite O/G/W Paddock 4929

Well previously named NFE Federal Com #61H

KOP @ 4619'

## 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 #331014 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 02/08/2016

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 \*\*

WELL NAME: NFE FEDERAL COM 0114  
API: 30-015-43250  
SPUD DATE: 9/16/2015  
PRODUCING FORMATION: YESO PADDOCK  
FIELD: CEDAR LAKE (BP)  
COUNTY: EDDY  
STATE: NEW MEXICO  
WORKING INTEREST: 80.00%

SURFACE LOC: 1795' FSL & 25' FEL  
SECTION: 8  
TOWNSHIP: 17-S  
RANGE: 31-E  
SURVEY: JOHN WEST SURVEYING CO  
BOTTOM HOLE LOC: 1795.7' FSL & 333.8' FWL  
SECTION: 8  
TOWNSHIP: 17-S  
RANGE: 31-E  
SURVEY: JOHN WEST SURVEYING CO  
DRILL RIG: CAPSTAR 119  
RIG RELEASE: 10/4/2015

KB (ft): 3,848.00  
GL (ft): 3,837.00  
KB/GL DIFF (ft): 11.00  
TMD (ft): 9,849.00  
TD OF PILOT HOLE (ft): N/A  
FC DEPTH (ft): 9,822.00  
PBMD (ft): 9,849.00  
RDV DEPTH (ft): N/A  
ORIO VALVE (ft): N/A  
DEEPEST TVD (ft): 5,127.00

TAPERED CASING STRING:  
7" 28# L-80 TO X-OVER @ 4,688'  
TAPERING TO 5.5" 20# L-80 SET @ 9,831'

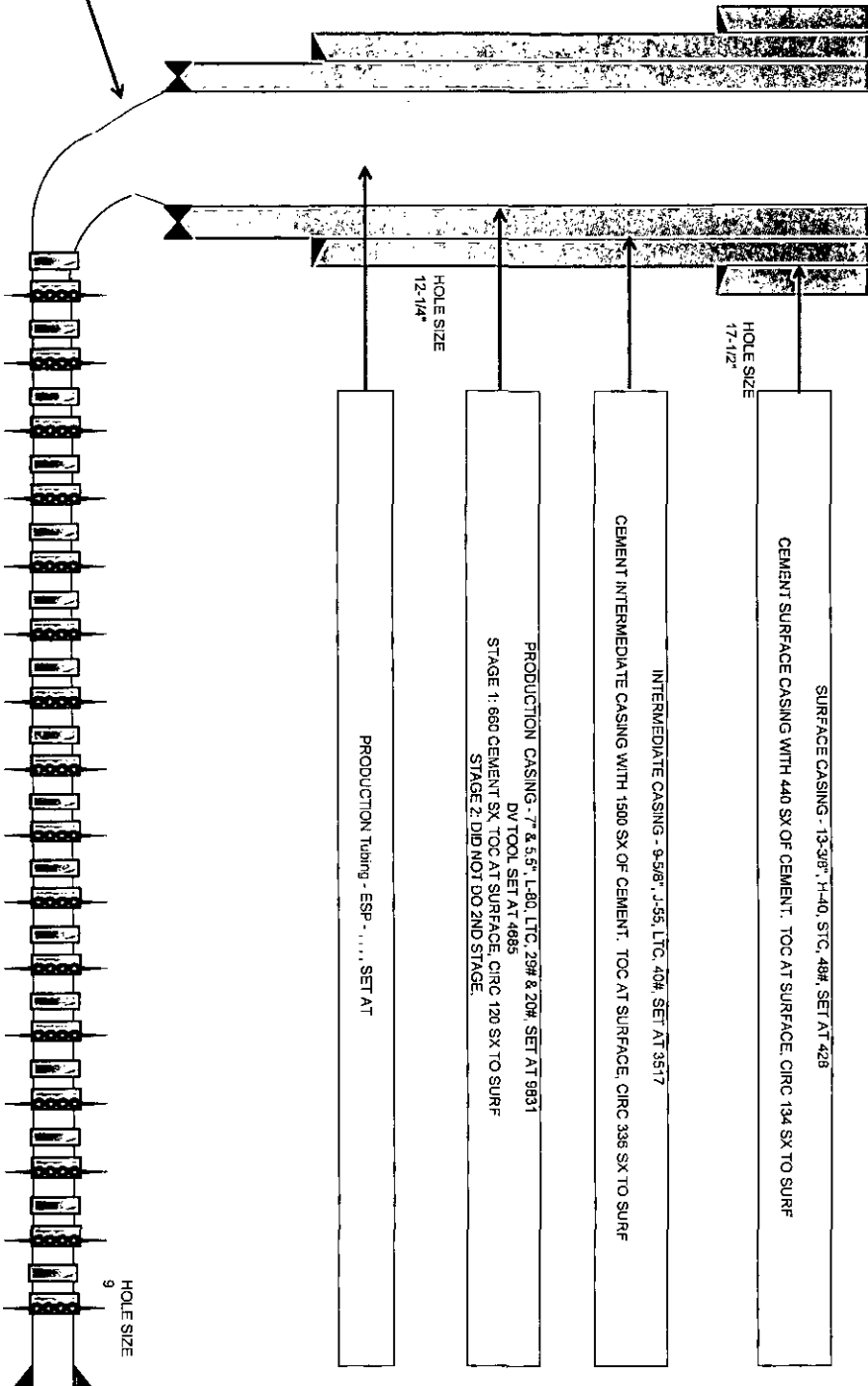
KOP (ft):  
LATERAL LENGTH (ft):  
TD OF PILOT HOLE (ft):

4,619  
4,442

PACKERS & SLEEVES  
TOP PERF (MD):  
BOTTOM PERF (MD):

5,407  
9,822

TMD (ft): 9,849  
FC DEPTH (ft): 9,822  
PBMD (ft): 9,849  
RDV DEPTH (ft): N/A  
ORIO VALVE (ft): N/A



LAST UPDATED BY: HILLARI GOULD  
LAST UPDATED: 1/13/2016

COMMENTS:

CROSSOVER SUB @ 4,688'

PACKERS & SLEEVES - 18 STAGES					
TOTAL ACID (bb)	TOTAL LTR (bb)	TOTAL PROPAGANT (lbs)	MAX WH RATE (bpm)	MAX WH PRESSURE (psi)	
2,913	7,147	3,083,840	93.00	8,400	
PRODUCTION METHOD	LIFT TYPE	SETTING DEPTH			
Pumping	ESP	0			