

**N OIL CONSERVATION  
ARTESIA DISTRICT**

**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 87503

State of New Mexico  
Energy, Minerals & Natural Resources

**OCT 02 2018**

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

**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>3</sup> Reason for Filing Code/ Effective Date NW 09/14/2018
<sup>4</sup> API Number 30-015-44982	<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 953H

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

UL or lot no. D	Section 9	Township 17S	Range 31E	Lot Idn	Feet from the 1130	North/South Line NORTH	Feet from the 508	East/West line WEST	County EDDY
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**<sup>11</sup> Bottom Hole Location**

UL or lot no. 2	Section 7	Township 17S	Range 31E	Lot Idn	Feet from the 1341	North/South line NORTH	Feet from the 380	East/West line WEST	County EDDY
<sup>12</sup> Use Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 09/14/2018	<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 Pipel.ne 311 W Quay / PO Box 1380 Artesia NM 88210	O
221115	Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135	G
36785	DCP Midstream, LP 370 17th St Suite 2500 Denver CO 80202	G

**IV. Well Completion Data**

<sup>21</sup> Spud Date 08/23/18	<sup>22</sup> Ready Date 09/14/2018	<sup>23</sup> TD 15305	<sup>24</sup> PBDT 4690	<sup>25</sup> Performations 4600-15305	<sup>26</sup> DIHC, NIC no perf. open hole
<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# H-40	570	550 sx Class C - Cure		
12.25	9.625 40# J55	3505	1400 sx Class C - Cure		
8.5	7 29# L80/5.5 20# L80	4600-15305	710 sx Class C - Cure		
Tubing	2.875	4843	4887- SN dated 9-27-18 casing		

**V. Well Test Data**

<sup>31</sup> Date New Oil 9/14/2018	<sup>32</sup> Gas Delivery Date 9/14/2018	<sup>33</sup> Test Date 9/17/2018	<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 904	<sup>39</sup> Water 2008	<sup>40</sup> Gas 295		<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>Alicia Fulton</i>			OIL CONSERVATION DIVISION Approved by: <i>Rustyn Klein</i> Title: <i>Business Ops Spec A</i> Approval Date: <i>10-15-2018</i>		
Printed name Alicia Fulton			Title		
Title: Reg Analyst			Approval Date:		
E-mail Address: alicia.fulton@apachecorp.com					
Date: 10/1/2018	Phone: 432-818-1088				

Pending BLM approvals will  
subsequently be reviewed  
and scanned

*12-18-2018*

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

**OCT 02 2018**

Form 3160-4  
(August 2007)

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

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

**RECEIVED**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No. NMLC029426B	
6. If Indian, Allottee or Tribe Name	
7. Unit or CA Agreement Name and No.	
8. Lease Name and Well No. CEDAR LAKE FEDERAL CA 953H	
9. API Well No. 30-015-44982	
10. Field and Pool, or Exploratory FREN-GLORIETA-YESO	
11. Sec., T., R., M., or Block and Survey or Area Sec 9 T17S R31E Mer	
12. County or Parish EDDY	13. State NM
17. Elevations (DF, KB, RT, GL)* 3875 GL	

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other	
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 _____	
2. Name of Operator APACHE CORPORATION Contact: ALICIA FULTON E-Mail: Alicia.fulton@apachecorp.com	
3. Address 303 VETERANS AIRPARK LANE MIDLAND, TX 79705	3a. Phone No. (include area code) Ph: 432-818-1088
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 9 T17S R31E Mer At surface NWNW Lot D 1130FNL 508FWL Sec 9 T17S R31E Mer At top prod interval reported below Lot D 1140FNL 491FWL Sec 7 T17S R31E Mer At total depth Lot 2 1341FNL 380FWL	
14. Date Spudded 06/05/2018	15. Date T.D. Reached 06/21/2018
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 08/21/2018 9-11-18	
18. Total Depth: MD TVD 15305 4928	19. Plug Back T.D.: MD TVD
20. Depth Bridge Plug Set: MD TVD	

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <i>CBCL</i>	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)
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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	570		550		0	0
12.250	9.625 J55	40.0	0	3505		1400		0	0
8.500	7.000 L80	29.0	0	4600		710		0	0
8.500	5.500 L80	20.0	4600	15287					
<i>no cement - open hole packer assembly</i>									

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	4913	4887	<i>4887 - Sundry notice dated 9-27-18</i>						

25. Producing Intervals								26. Perforation Record	
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) PADDOCK	4675	15305	4675 TO 15305			PRODUCING			
B)									
C)									
D)									
<i>no perforations - open hole completion - packer assembly</i>									

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.	
Depth Interval	Amount and Type of Material
4675 TO 15305	TOTAL ACID 6294 BBL TOTAL SLICKWATER 147,394 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
09/14/2018	09/17/2018	24	→	904.0	295.0	2008.0			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	
			→					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	
			→						

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

ELECTRONIC SUBMISSION #437978 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

**...SUBMITTED \*\***

*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.)  
CAPTURED**
**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	265	436	ANHYDRITE, DOLOMITE W	RUSTLER	265
SALADO	436	1345	ANHYDRITE, DOLOMITE W	SALADO	436
TANSILL	1345	1509	SANDSTONE OGW	TANSILL	1345
YATES	1509	1789	SANDSTONE, DOLO, LIMESTONE OGW	YATES	1509
SEVEN RIVERS	1789	2418	SANDSTONE, DOLO, LIMESTONE OGW	SEVEN RIVERS	1789
QUEEN	2418	2795	DOLOMITE, LIMESTONE, SS, OGW	QUEEN	2418
GRAYBURG	2795	3109	DOLOMITE, LIMESTONE, SS, OGW	GRAYBURG	2795
SAN ANDRES	3106	4621	DOLOMITE, LIMESTONE, SS, OGW	SAN ANDRES	3106

32. Additional remarks (include plugging procedure):  
GLORIETA SANDSTONE O/G/W 4621-4678  
PADDOCK DOLOMITE O/G/W 4678-5246  
BLINEBRY DOLOMITE O/G/W 5246-15305

7" casing ran with crossover to 5 1/2 open hole packers plus assembly to 15,287  
TD of well at 15,305

**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 #437978 Verified by the BLM Well Information System.  
For APACHE CORPORATION, sent to the Carlsbad**

Name (please print) ALICIA FULTON

Title SR REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/02/2018

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 #437978 that would not fit on the form**

**32. Additional remarks, continued**

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

Form 3160-5  
(June 2015)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**OCT 02 2018**

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

5. Lease Serial No. <b>NMLC029426B</b>
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. <b>CEDAR LAKE FEDERAL CA 953H</b>
9. API Well No. <b>30-015-44982</b>
10. Field and Pool or Exploratory Area <b>FREN-GLORIETA-YESO</b>
11. County or Parish, State <b>EDDY COUNTY, NM</b>

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator <b>APACHE CORPORATION</b> Contact: <b>ALICIA FULTON</b> E-Mail: <b>Alicia.fulton@apachecorp.com</b>	
3a. Address <b>303 VETERANS AIRPARK LANE MILAND, TX 79705</b>	3b. Phone No. (include area code) <b>Ph: 432-818-1088</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>Sec 9 T17S R31E NWNW 1130FNL 508FWL</b>	

**12. CHECK THE 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"/> Hydraulic Fracturing	<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 must 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 must be filed once testing has been completed. Final Abandonment Notices must 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

spud date 6/5/2018  
rr date 6/23/2018

7/25/18 MIRU RENEGADE AND PERFORM CBL 4600 TO SURFACE  
TEST CASING TO 4000# GOOD TEST  
8/1-8/4 rig up, begin frac stages 1-35  
7 inch casing to 4626 cross over to 5 1/2 packer assembly 4675-15,287  
  
total acid 6294 bbl total slickwater 147,394 bbls

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

**Electronic Submission #437468 verified by the BLM Well Information System  
For APACHE CORPORATION, sent to the Carlsbad**

Name (Printed/Typed) <b>ALICIA FULTON</b>	Title <b>SR REGULATORY ANALYST</b>
Signature (Electronic Submission)	Date <b>09/27/2018</b>

**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*

*MF*

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

... department or agency of the United

(Instructions on page 2)

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

**Additional data for EC transaction #437468 that would not fit on the form**

**32. Additional remarks, continued**

8/11-8/21 drill out balls and seats

8/31 run in hole bha and tubing 2 7/8 set @ 4887

9/14 installed flow lines, electrical and automation turn over to production

3160-4 to be completed and filed

