

UNITED STATES **NM OIL CONSERVATION**  
DEPARTMENT OF THE INTERIOR ARTESIA DISTRICT  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**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.*FEB 1 2018  
NMOCD  
Artesia  
RECEIVED

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		7. If Unit or CA/Agreement, Name and/or No.
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. CEDAR LAKE FEDERAL CA 411H
2. Name of Operator APACHE CORPORATION	Contact: EMILY FOLLIS E-Mail: Emily.Follis@apachecorp.com	9. API Well No. 30-015-43522
3a. Address 303 VETERANS AIRPARK LANE SUITE 1000 MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 432-818-1801	10. Field and Pool or Exploratory Area CEDAR LAKE ;GLORIETA YESO
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 4 T17S R31E NENE 1043FNL 955FEL		11. County or Parish, State EDDY COUNTY COUNTY, NM

## 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 recomple 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 recompletion 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: TOC@146',RR 06/19/17

AC 275-18  
Accepted for record - NMOCD

08/28/17 MIRU DOUBLE R KILL TRUCK TEST CSG TO 5000 PSI,HELD FOR 30 MIN.TEST GOOD  
08/29/17 MIRU RENEGADE WL. PU RIH CBL-CNL-GR-CCL LOGGING TOOL. TAG UP @ 4703' LOG FROM 4703' -  
SURF. EST CEMENT TOP @ 146'. RDMO RENEGADE WL

09/01/17 MIRUSU & REVERSE UNIT. NU BOP RACK & TALLEY PIPE. PU RIH W/ 6" BIT, 4 3 1/2 DC & 141 JNTS  
2 7/8 J-55 TBG TAG DV TOOL @ 4703' PU SWIVEL BREAK CIRC DO DV TOOL. DRILL TIME 1HR 45MIN. TOH LD  
BIT. PU 4.60" MILL RIH LEAVE SWINGING @ 4671'. SI SDFN

09/02/17 WAIT ON CLEAN OUT PU RIH W/ 144 JNTS 2 7/8 J-55 TBG TAG DEBRIS SUB @ 4812' PU SWIVEL  
BREAK CIRC DO DEBRIS SUB. DRILL TIME 1.5HRS. PU RIH TO 5729' CIRC CLEAN. POOH LD TBG & BHA. SI RDMO

14. I hereby certify that the foregoing is true and correct. Electronic Submission #400395 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 01/11/2018 ()	
Name (Printed/Typed) EMILY FOLLIS	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 01/11/2018

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 _____

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.

(Instructions on page 2)

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

Legal Well Name: CEDAR LAKE FEDERAL CA 411H  
 API/Surface Loc: 3001543522  
 Spud Date: 06/2017  
 Original Drilling Rig Release: 6/19/2017  
 Country: United States  
 State/Province: New Mexico  
 Field Name: Cedar Lake/Gloria-  
 Yaso  
 Surface Legal Location: 1043 3' FNL & 955' FEL SEC 4 T17S R31E  
 North/South Distance (ft):  
 North/South Reference:  
 East/West Distance (ft):  
 East/West Reference:

Bottom Hole Location:  
 Bottom Hole Legal Location: 341 4' FNL & 298 4' FEL Sec 4 T17S R31E

CEDAR LAKE FEDERAL CA 411H - Original Hole  
 North-South Distance (ft): From N or S Line:  
 CEDAR LAKE FEDERAL CA 411H - Original Hole  
 East-West Distance (ft): From E or W Line:  
 Original KB Elevation (ft): 3,974.5  
 Ground Elevation (ft): 3,958.0

KB-Drift Distance (ft): 19.8  
 Total Depth (ft) (KB): Original Hole - 9,181.0  
 Surface Depth (ft) (KB): Original Hole - 5,110.5

Stage Number	Top Depth (ft) (KB)	Bottom Depth (ft) (KB)
1	19.50	635.00

Qty	Yield (ft/sack)	Amount (sacks)	Vol Pumped (bbl)
Lead	1.34	600	143.0

Stage Number	Top Depth (ft) (KB)	Bottom Depth (ft) (KB)
1	19.50	3,521.00

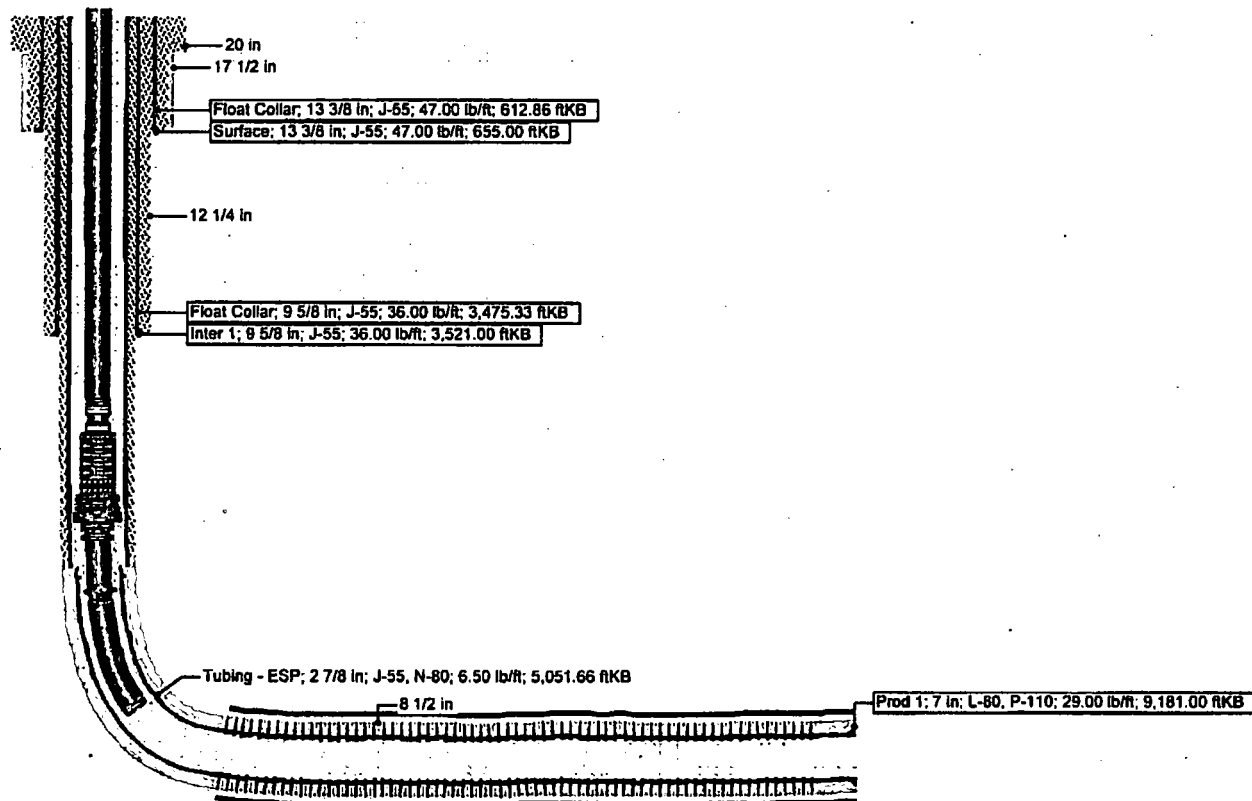
Qty	Yield (ft/sack)	Amount (sacks)	Vol Pumped (bbl)
Lead	1.82	1,100	378.0
Tail	1.32	300	70.0

Stage Number	Top Depth (ft) (KB)	Bottom Depth (ft) (KB)
1	19.50	4,705.00

Qty	Yield (ft/sack)	Amount (sacks)	Vol Pumped (bbl)
Lead	2.08	450	185.0
Tail	1.48	290	53.0

NEW DEV - CEDAR LAKE FEDERAL CA 411H - Original Hole, 11/16/2010 3:29:23 PM

Directional schematic (actual)



#### Stimulation Jobs

Volume Class Total (bbl): 6,111.0  
 Total Class - Recovered Volume (bbl): 6,143.0  
 Recovered Total (bbl): 2,630.740  
 Treat Rate Max (bbl/min):  
 Treat Pressure Max (psi):  
 Number of Treatment Intervals: 14  
 Min Top Depth (ft) (KB): 5,884.8  
 Max Bot Depth (ft) (KB): 9,181.0

#### Perforations or Sleeves

Top Depth (ft) (KB): 5,585  
 Top Depth (ft) (KB): 5,585  
 Bottom Depth (ft) (KB): 8,869

#### Kick Off & Key Depths

Type: Kick Off  
 Top Depth (ft) (KB): 4,895.0  
 Total Depth (ft) (KB): 9,181.0  
 (P-110) (ft) (KB):

**DISTRICT I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**DISTRICT II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

**DISTRICT III**  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

**DISTRICT IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011  
One copy to appropriate  
District Office

**ARTESIA DISTRICT**

FEB 15 2018

AMENDED REPORT

**RECEIVED**

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-43522</b>	Pool Code <b>96831</b>	Pool Name <b>CEDAR LAKE; GLORIETA-YESO</b>
Property Code <b>315935</b>	Property Name <b>CEDAR LAKE FEDERAL CA</b>	
OGRID No. <b>873</b>	Operator Name <b>APACHE CORPORATION</b>	
		Well Number <b>411H</b>
		Elevation <b>3958'</b>

Surface Location

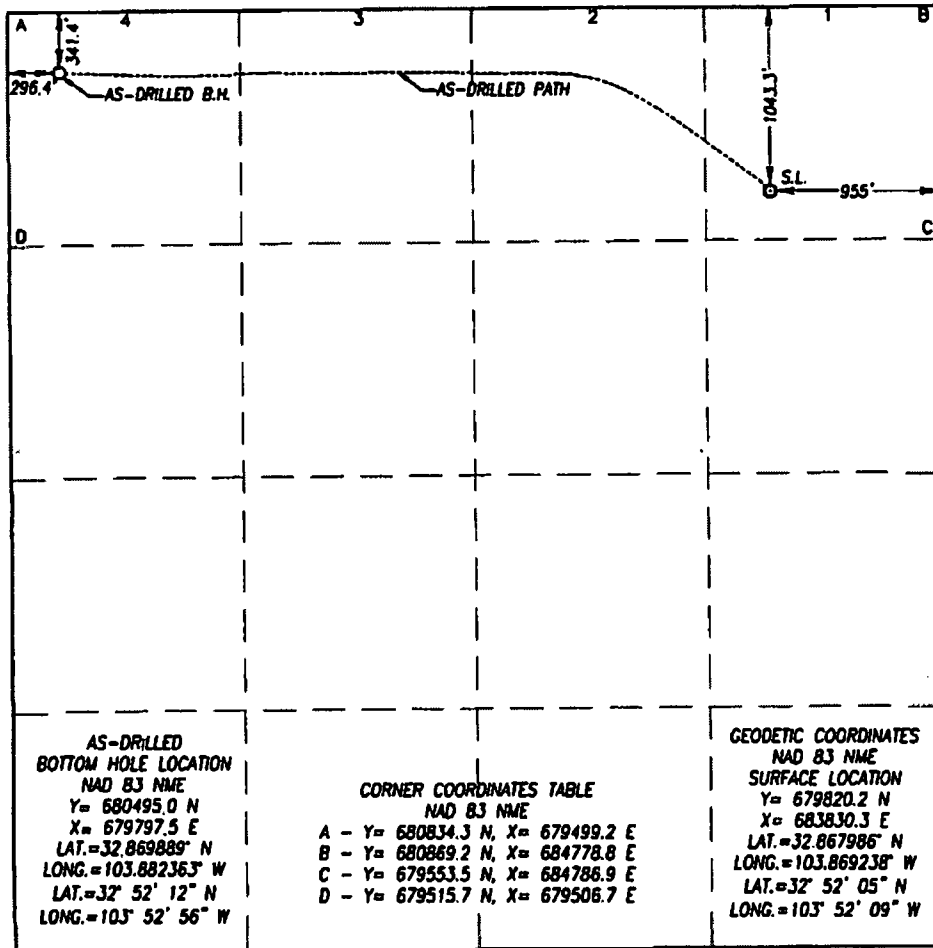
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	4	17-S	31-E		1043.3	NORTH	955	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	4	17-S	31-E		341.4	NORTH	296.4	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
159.76			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



**OPERATOR CERTIFICATION**

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

01/10/18

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Emily Follis**  
Printed Name

**emily.follis@apachecorp.com**  
E-mail Address

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 25, 2015

Date of Survey \_\_\_\_\_  
Signature \_\_\_\_\_ of Professional Surveyor

**RONALD J. EIDSON**  
NEW MEXICO  
REGISTERED SURVEYOR  
3239

**Ronald J. Eidson** 06/26/2017

Certificate Number \_\_\_\_\_  
Ronald J. Eidson 12641  
3239

ACK REL W.O. 15110681 JWSC W.O. 17 13 0684