

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTOIL CONSERVATION  
ARTESIA DISTRICT  
NMCD  
APR 16 2018  
RECEIVEDFORM 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.*

5. Lease Serial No. NMLC029435B
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.
8. Well Name and No. CEDAR LAKE FEDERAL CA 301H
9. API Well No. 30-015-43561
10. Field and Pool or Exploratory Area CEDAR LAKE; GLORIETA-YESO
11. County or Parish, State EDDY COUNTY COUNTY, NM

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

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	8. Well Name and No. CEDAR LAKE FEDERAL CA 301H
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 3 T17S R31E 1880FNL 183FWL			

**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 recomple 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: RR 07/23/17 TOC@160

ORIGINAL WELL NAME HAWK FEDERAL #1

09/06/17 MIRU RENEGAGE WL &amp; CRANE UNIT. PU RIH W/ CBL-CNL-GR-CCL TAG DV TOOL @ 4673'. LOG FROM 4673' - SURF. EST CEMENT TOP @ 160'. RDMO RENEGAGE WL. SD

09/07/17 MIRU RIG UP DOUBLE R AND TESTED CASING TO 5000#, HELD FOR 30 MIN. GOOD TEST. COMPLETED TESTING ALL FOUR WELLS AND SETTING ANCHORS MIRU WOR AND UNLOAD TBG. MU 6 1/8 BIT 4 DRILL COLLAR AND RUN IN THE HOLE AND TALLY PIPE 84 JOINTS 2 7/8 8RD TBG. CLOSE WELL IN SHUT DOWN FOR DAY. SDFD

14. I hereby certify that the foregoing is true and correct. Electronic Submission #399722 verified by the BLM Well Information System For APACHE CORPORATION, sent to the Carlsbad Committed to AFMS for processing by JENNIFER SANCHEZ on 01/08/2018 (	
Name (Printed/Typed) EMILY FOLLIS	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 01/05/2018
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 \*\***

**Additional data for EC transaction #399722 that would not fit on the form**

**32. Additional remarks, continued**

09/18/17 RIG UP FRAC, TEST LINES, SET POP OFFS, BS POP OFF @ 1100, MAIN POP OFF 6487. TESTED CASING TO 2000 PSI FOR 30 MIN, NO LEAK OFF - GOOD TEST.

09/18/-9/20/17 FRAC (16 STAGES)ELITE - PACKERS PLUS) -5500-10,137'

TOTAL SAND 3,012,500 #

TOTAL ACID 1,904 BBL

09/21/17 RIG DOWN FRAC & MOVE OFF

10/27/17 DO SLEEVES

12/02/17 MIRU SU,MRU RU SET PIPE RACK

12/04/17 RU SU RACK TUBING,PU RIH w/TBG POOH & STAND BACK TBG

12/05/17 SD SUB CAME IN GROUNDED

12/06/17 RIH W/GE ESP, ND HYD BOP W/HYDRIL RDMO SU

12/13/17 SET SURF, RUN ELECTRIC,PLUMB INTO BATTERY, FINAL REPORT POP

**Well Info**

Legal Well Name: CEDAR LAKE FEDERAL CA 301H

API/Surface Loc: 3001543561

Spud Date: 7/9/2017

Original Drilling Rig Release: 7/23/2017

Country: United States  
State/Province: New Mexico

Target Formation: Peddock

Field Name: Cedar Lake, Gloria-  
Yaso

Surface Legal Location: 1880' FNL &amp; 183' FWL SEC 3 T17S R31E

North/South Distance (ft): North/South Reference:

East/West Distance (ft): East/West Reference:

**Bottom Hole Location:**Bottom Hole Legal Location: 1892' FNL & 345' FWL SEC 4 T17S  
R31E

CEDAR LAKE FEDERAL CA 301H - Original Hole

North-South Distance (ft): From N or S Line:

CEDAR LAKE FEDERAL CA 301H - Original Hole

East-West Distance (ft): From E or W Line:

Original KB Elevation (ft): 3,668.5

Ground Elevation (ft): 3,932.0

Top Ground Distance (ft): 10.3

Total Depth (ft) (RKB): Original Hole - 10,137.0

Current Depth (ft) (RKB):

Surface, 683.00 RKB, 13 3/8

Stage Number	Top Depth (ft) (RKB)	Bottom Depth (ft) (RKB)
1	15.50	683.00

Top Measurement Method

Returns at Surface

Qty	Yield (ft/sec)	Amount (seals)	Vol Pumped (bbl)
Lead	1.34	600	143.0

Inter 1, 3,834.00 RKB, 9 5/8

Stage Number	Top Depth (ft) (RKB)	Bottom Depth (ft) (RKB)
1	16.50	3,834.00

Top Measurement Method

Returns at Surface

Qty	Yield (ft/sec)	Amount (seals)	Vol Pumped (bbl)
Lead	1.81	1,100	374.0
Tail	1.32	350	70.0

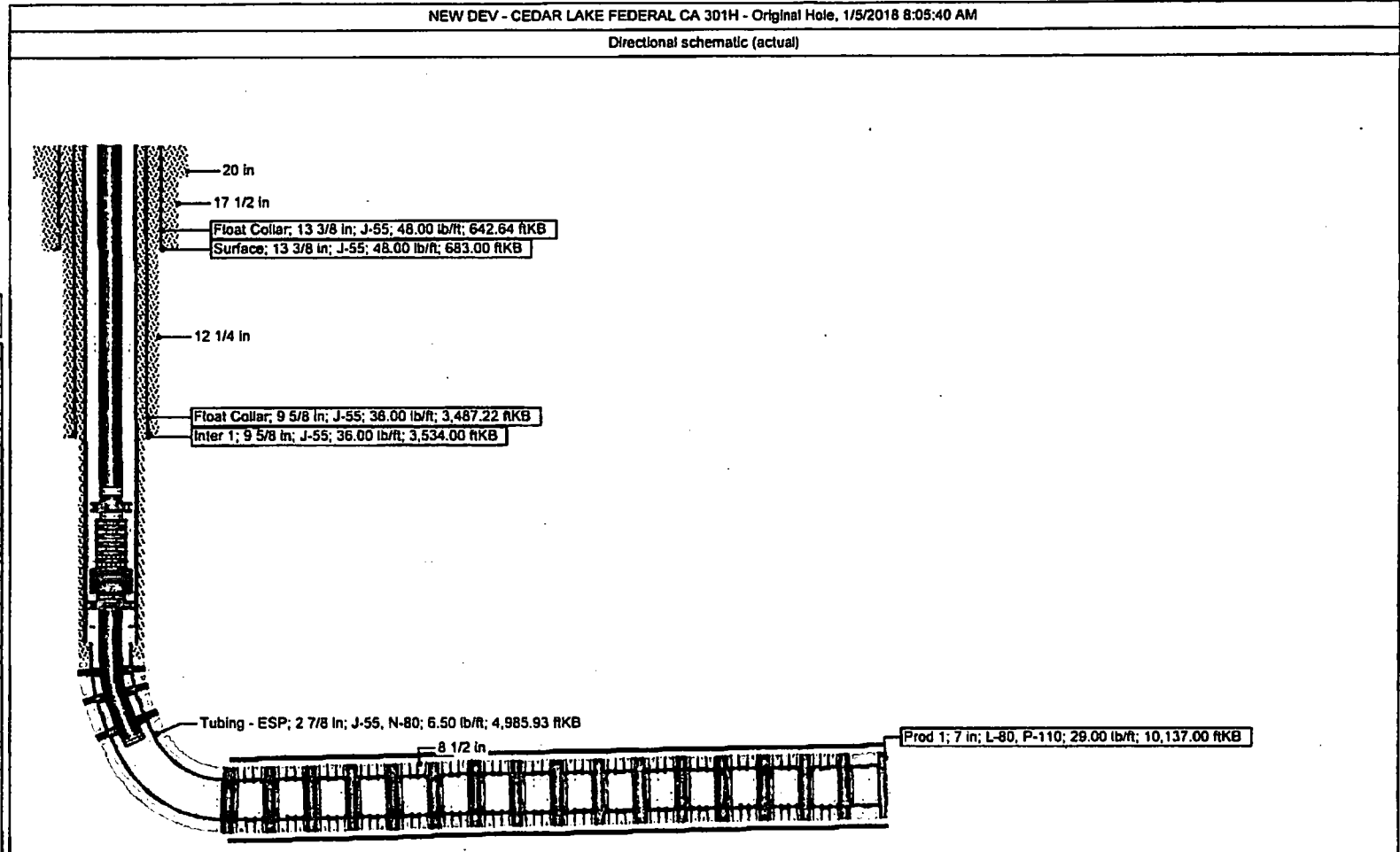
Prod 1, 16,137.00 RKB, 7

Stage Number	Top Depth (ft) (RKB)	Bottom Depth (ft) (RKB)
1	16.50	4,730.00

Top Measurement Method

Returns at Surface

Qty	Yield (ft/sec)	Amount (seals)	Vol Pumped (bbl)
Lead	2.00	450	165.0
Tail	1.48	200	53.0

**Stimulation Jobs**

Volume Class Total (bbl): 6,817.0

Total Class - Recommended Volume (bbl): 6,817.0

Current Total (bbl): 3,013.50

Treat Rate Max (bbl/min):

Treat Pressure Max (psi):

Number of Treatment Intervals: 15

Min Top Depth (ft) (RKB): 5,500.0

Max Top Depth (ft) (RKB): 10,137.0

**Perforations or Screens**

Top Depth (ft) (RKB): 5,500

Top Depth (ft) (RKB): 5,500

Bottom Depth (ft) (RKB): 9,834

**Kick Offs & Key Depths**

Type: KICK OFF

Top Depth (ft) (RKB): 4,730.0

Total Depth (ft) (RKB): 10,137.0

Photo Log (ft) (RKB): 0 - 3,534.00 - 4,672

**DISTRICT I**  
1635 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  
Submit one copy to appropriate  
District Office

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

API Number <b>30-015-43561</b>	Pool Code <b>96831</b>	Cedar Lake; Glorieta-Yeso Pool Name
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>301H</b>
		Elevation <b>3952'</b>

Surface Location

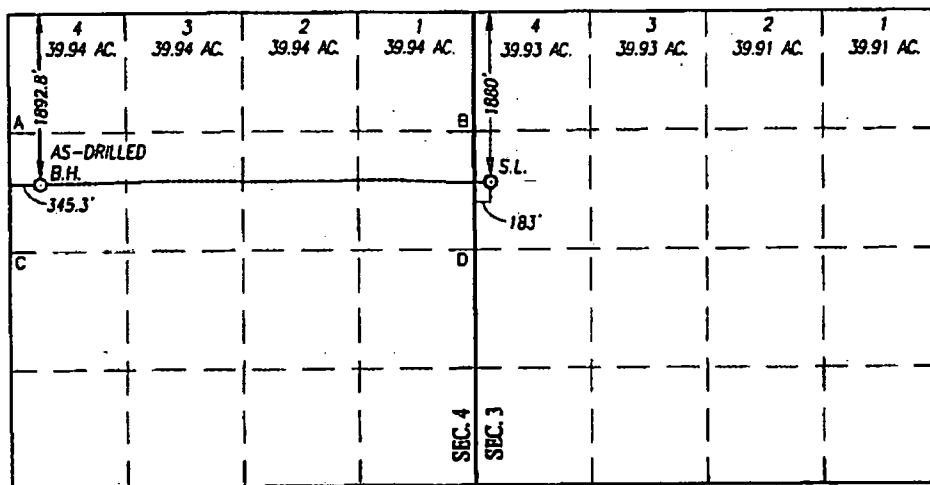
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>E</b>	<b>3</b>	<b>17-S</b>	<b>31-E</b>		<b>1880</b>	<b>NORTH</b>	<b>183</b>	<b>WEST</b>	<b>EDDY</b>

As-Drilled 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
<b>E</b>	<b>4</b>	<b>17-S</b>	<b>31-E</b>		<b>1892.8</b>	<b>NORTH</b>	<b>345.3</b>	<b>WEST</b>	<b>EDDY</b>

Dedicated Acres <b>160</b>	Joint or Infill	Consolidation Code	Order No
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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 unEDDYed 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.

Signature \_\_\_\_\_ Date **01/05/18**

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.

MAY 4, 2012

Date of Survey \_\_\_\_\_  
Signature \_\_\_\_\_



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

ACK REL W.O. 17.13 0724 JWSC W.O. 17.13.0819

AS-DRILLED  
BOTTOM HOLE LOCATION  
NAD 83 NME  
Y= 678944.4 N  
X= 679553.2 E  
LAT.=32.865627° N  
LONG.=103.882197° W  
LAT.=32° 51' 56" N  
LONG.=103° 52' 56" W

CORNER COORDINATES TABLE  
NAD 83 NME

A - Y= 679515.7 N, X= 679506.7 E  
B - Y= 679553.5 N, X= 684786.9 E  
C - Y= 678195.5 N, X= 679514.2 E  
D - Y= 678231.9 N, X= 684794.9 E

GEODEIC COORDINATES  
NAD 83 NME

SURFACE LOCATION  
Y= 678991.0 N  
X= 684973.3 E  
LAT.=32.865693° N  
LONG.=103.865528° W  
LAT.=32° 51' 56" N  
LONG.=103° 51' 56" W

NOTE: AS-DRILLED BOTTOM HOLE PLOTTED FROM DATA FURNISHED BY  
PHOENIX TECHNOLOGY SERVICES SURVEY REPORT; JULY 21, 2017