

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**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.***OCD-ARTESIA**  
FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 20105. Lease Serial No.  
NMLC029426B

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 148H9. API Well No.  
30-015-43409-00-X110. Field and Pool, or Exploratory  
FREN11. County or Parish, and State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

APACHE CORPORATION

Contact: EMILY FOLLIS

E-Mail: Emily.Follis@apachecorp.com

3a. Address

303 VETERANS AIRPARK LANE SUITE 3000  
MIDLAND, TX 79705

3b. Phone No. (include area code)

Ph: 432-818-1801

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

Sec 10 T17S R31E NENE 470FNL 330FEL

**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 recompletion 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 the well as follows: RR 11/23/16

01/26/16 MIRU WOR NU BOP LOAD 7" AND TEST TO 5K GOOD TEST. RU RENEGADE WL, RIH W/CNL-CBL-GR FROM 4850.15' TO SURFACE. ESTIMATE TOC@ 130' RDMO RENEGADE WIRELINE  
01/29/16 RIH WITH BIT TO DRILL OUT DV TOOL  
02/02/16 MILL OUT DEBRIS SUB @ 5143 LD SWVL RIH TO 5729' CIRC CAPACITY ND STRIPPER HEAD, POH & LD.  
TBG RDMO PREP TO FRAC  
08/09-10/16 MIRU ALL PARTIES TO FRAC - ROCK PILE OPEN TOE VALVE @ 4020 PSI  
(FRAC STAGES 1-15)

TOTAL SAND #2,880,774

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

NOV 14 2016

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

Electronic Submission #353128 verified by the BLM Well Information System  
For APACHE CORPORATION, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 09/30/2016 (16DLM0920SE)

Name (Printed/Typed) EMILY FOLLIS

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 09/30/2016

**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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED****BUREAU OF LAND MANAGEMENT**  
**CARLSBAD FIELD OFFICE**

**Additional data for EC transaction #353128 that would not fit on the form**

**32. Additional remarks, continued**

TOTAL ACID 2,523 BBL

08/10/16 RDMO FRAC

09/09/16 WO DRILL OUT SLEEVES

09/10/16 WELL CIRC CLEAN, RIG DOWN TURN OVER TO LEQ TO RUN ESP

09/12/16 RIH W/ESP & 2-7/8" J55 TUBING, SET SLIPS & PREPARE TO NUBOPS & 7-1/16 5M FLANGE, NU ESP

FLANGE, SWI & TURN OVER TO PRODUCTION RDMO

09/15/16 POP - FIRST FLOW

Well Info  
Legal Well Name: CEDAR LAKE FEDERAL CA 148H

APUWI: 300154309

Spud Date: 1/12/2015

Original Drilling Rig Release: 12/8/2015

Target Formation: Paddock

Field Name: Fern, Ochoa-Yaso

County: Eddy

State/Province: New Mexico

Surface Legal Location: SEC 10 117S R31E

Bottom Hole Location:

Bottom Hole Legal Location: SEC 10 117S R31E

CEDAR LAKE FEDERAL CA 148H - Original Hole

East-West Distance (ft): 332 From E or W Line: W

CEDAR LAKE FEDERAL CA 148H - Original Hole

North-South Distance (ft): 471 From N or S Line: N

Original Drilling Rig Release: 12/8/2015

Original KS Elevation (ft): 3,956.0

Ground Elevation (ft): 3,947.0

KS Ground Distance (ft): 110

Total Depth (All) (ft): 9,719.17

Total Depth All (TVS) (ft): 9,719.17

Original Hole: 9,719.17

Original Hole: 9,719.17

Original Hole: 9,719.17

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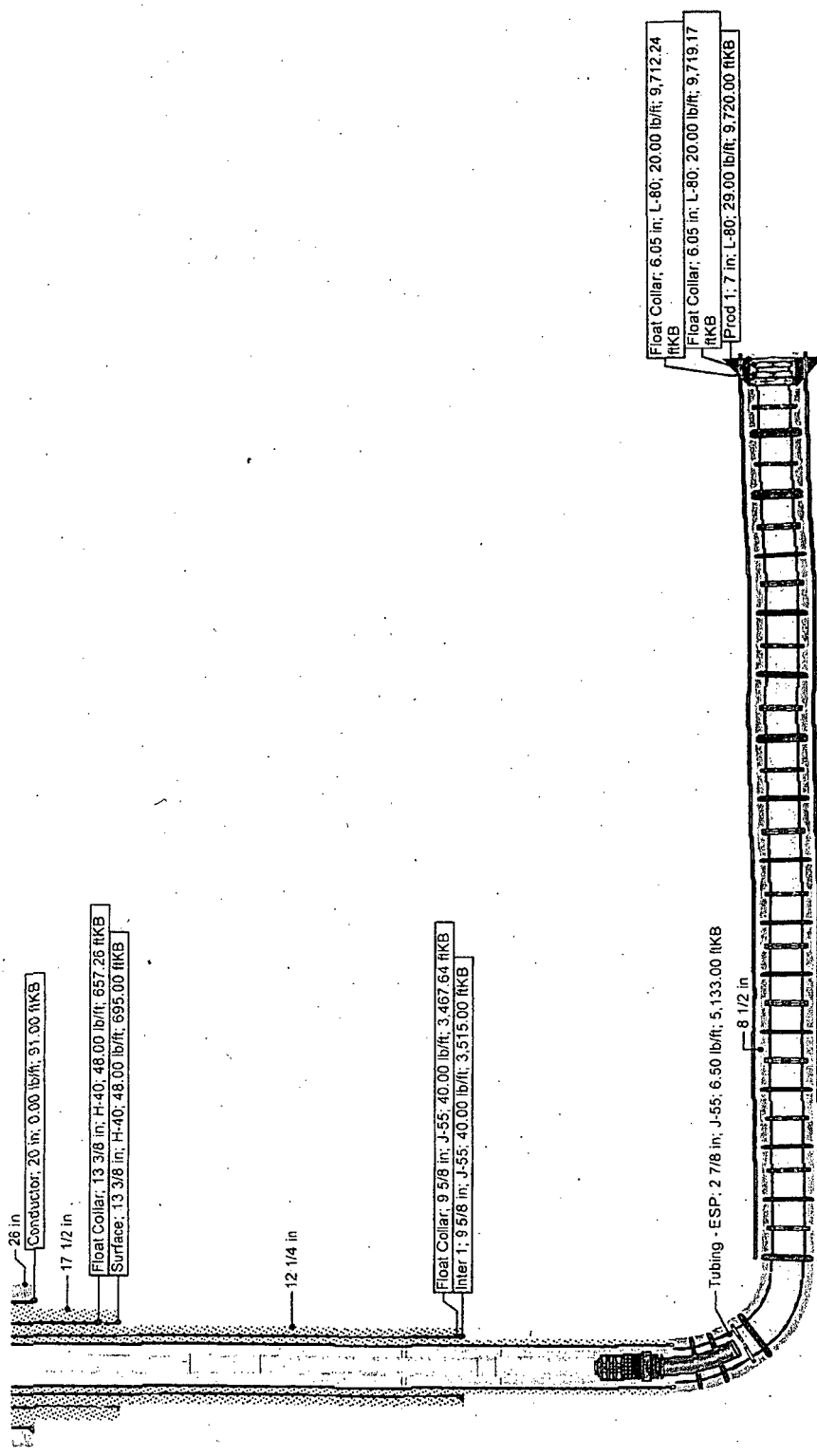
Original Hole: 9,719.17

Original Hole: 9,719.17

Original Hole: 9,719.17

NEW DEV - CEDAR LAKE FEDERAL CA 148H - Original Hole, 9/30/2016 8:51:29 AM

Directional schematic (actual)



Perforations

Top Depth (ftKB): 9,719.17  
Bottom Depth (ftKB): 9,719.17

Simulation Jobs

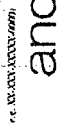
Volume Clean Total (bbl): 90,885.00  
Total Clean - Recovered Volume (bbl): 90,885.00  
Prep Time (hr): 2,887.74  
Treat Rate Max (gpm): 10

Number of Treatment Intervals: 10  
Min Top Depth (ftKB): 9,688.0  
Max Sim Depth (ftKB): 9,741.0

Kick Offs & Key Depths

Type: Kick Off  
Top Depth (ftKB): 4,834.0  
Total Depth (ftKB): 9,719.17  
Prod 1 (ftKB): 9,719.17

Stage Number	Top Depth (ftKB)	Bottom Depth (ftKB)
1	11.00	995.00
Top Measurement Method Returns at Surface		
Obs	Yield (ft/sec)	Amount (secs)
Lead	1.33	850
Tel	1.33	850
Prod 1	1.33	850
Bottom Measurement Method Returns at Surface		
Obs	Yield (ft/sec)	Amount (secs)
Lead	1.92	800
Tel	1.33	300
Prod 1	1.33	300
Top Measurement Method Returns at Surface		
Obs	Yield (ft/sec)	Amount (secs)
Lead	2.05	400
Tel	1.48	200
Prod 1	1.48	200

[illegible][illegible][illegible]

\*Total Water Volume sources may include fresh water, produced water, and/or recycled water.  
\*\* Information is based on the maximum potential (at concentration) and thus the total may be over 100%.